

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007104.D
 Acq On : 12 Aug 2019 18:54
 Operator : HP/JU
 Sample : K4144-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW121-073119

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:51:57 AM

Quant Time: Aug 13 05:23:33 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Aug 10 21:44:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9072	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	34207	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	19829	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47936	0.40	ng	0.00
26) Chrysene-d12	21.05	240	51759	0.40	ng	-0.01
32) Perylene-d12	23.16	264	56847	0.40	ng	-0.01

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	5903	0.27	ng	0.00
4) Phenol-d6	6.61	99	8102	0.30	ng	0.00
7) Nitrobenzene-d5	8.56	82	6218	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.78	152	15220	0.24	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1863	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3781	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	39259	0.23	ng	0.00
28) Terphenyl-d14	19.49	244	31547	0.22	ng	-0.01

Target Compounds

						Qvalue
8) Naphthalene	10.24	128	19532	0.204	ng	99
11) 2-Methylnaphthalene	11.86	142	6459	0.095	ng	95
15) Acenaphthylene	13.79	152	44234	0.427	ng	99
16) Acenaphthene	14.13	154	21129	0.318	ng	97
17) Fluorene	15.13	166	21813	0.220	ng	# 95
22) Phenanthrene	16.87	178	685667	4.773	ng	100
23) Anthracene	16.95	178	132873	1.012	ng	# 93
25) Fluoranthene	18.90	202	1411674	7.682	ng	99
27) Pyrene	19.26	202	1257138	6.926	ng	# 95
29) Benzo(a)anthracene	21.02	228	737943	3.899	ng	98
30) Chrysene	21.08	228	685736	3.729	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	377890	1.864	ng	98
33) Benzo(b)fluoranthene	22.54	252	854492	4.384	ng	99
34) Benzo(k)fluoranthene	22.58	252	307217m	1.596	ng	
35) Benzo(a)pyrene	23.07	252	615672	3.484	ng	98
36) Dibenzo(a,h)anthracene	25.25	278	105057	0.596	ng	95
37) Benzo(a,h,i)perylene	25.86	276	346245	1.909	ng	99

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

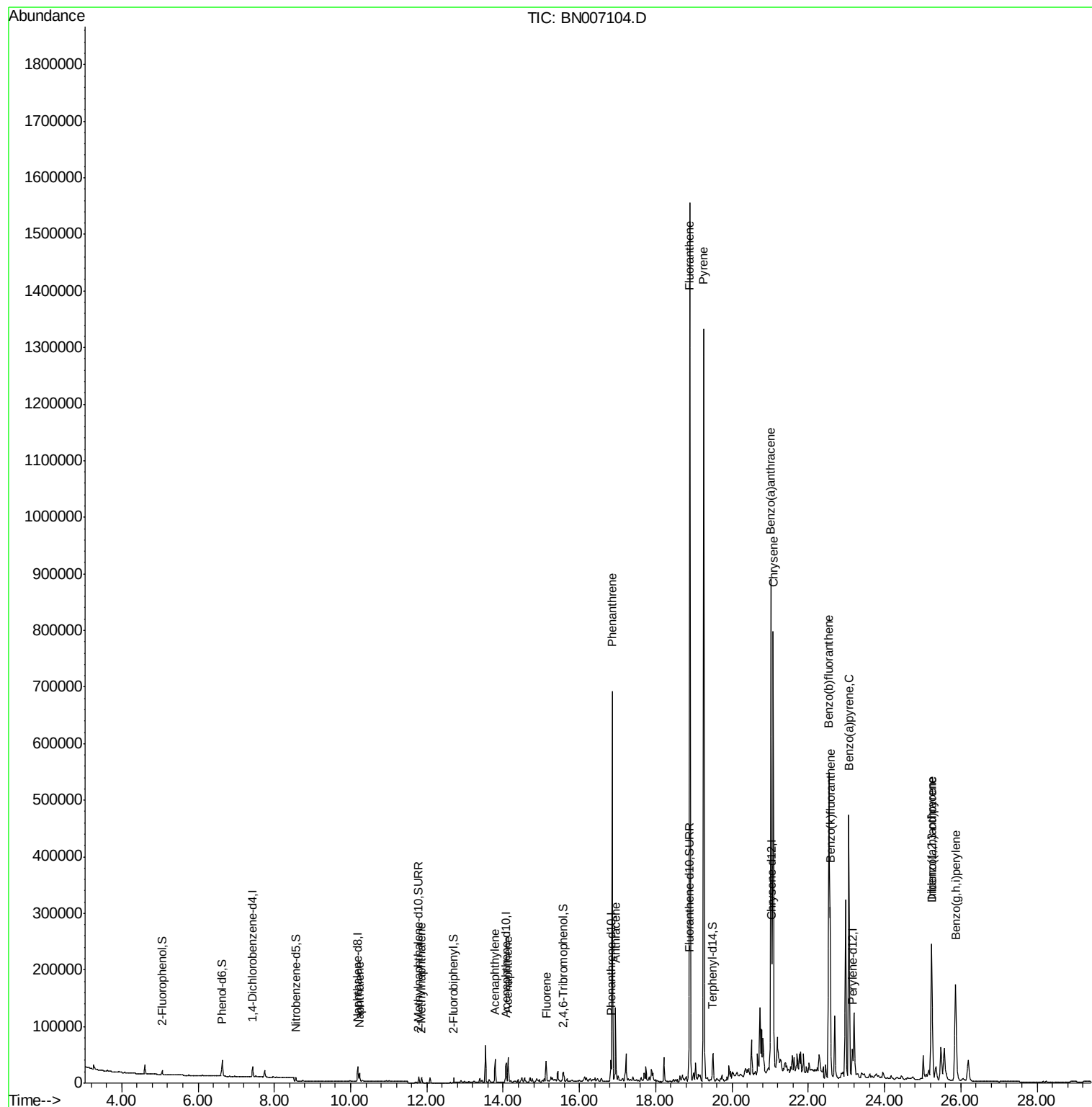
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
Data File : BN007104.D
Acq On : 12 Aug 2019 18:54
Operator : HP/JU
Sample : K4144-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

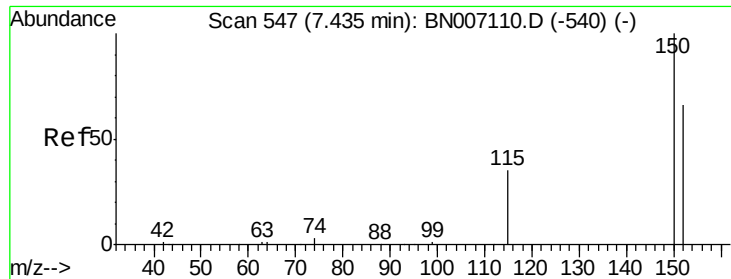
Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM

Quant Time: Aug 13 05:23:33 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 10 21:44:50 2019
Response via : Initial Calibration





#1

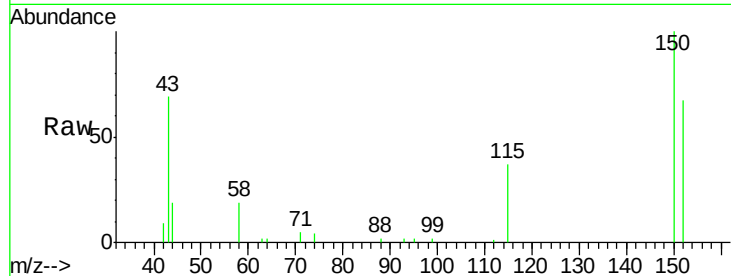
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.0	121.7	182.5
115	55.4	46.2	69.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM

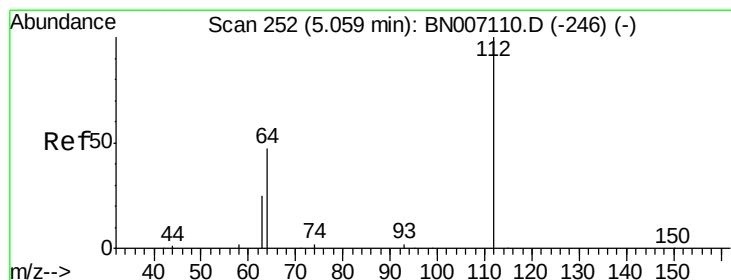
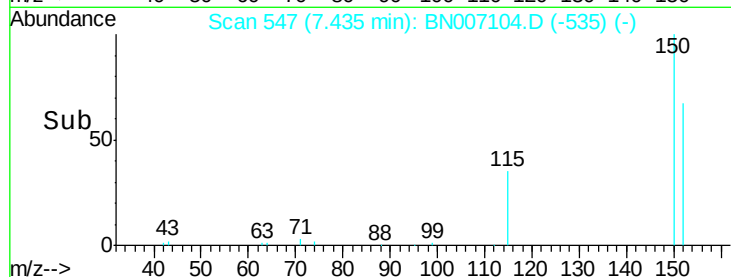
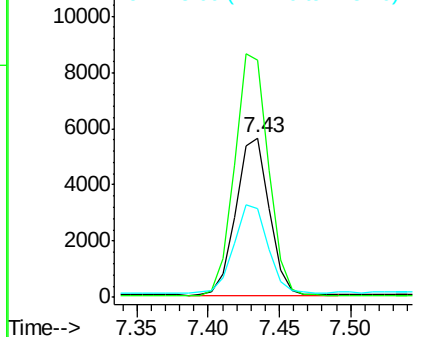


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

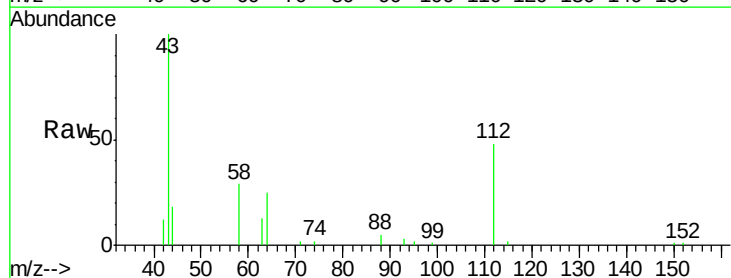
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.271 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.8	42.6	63.8
63	27.6	22.2	33.2

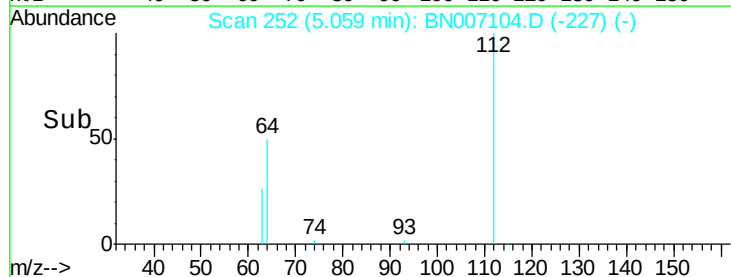
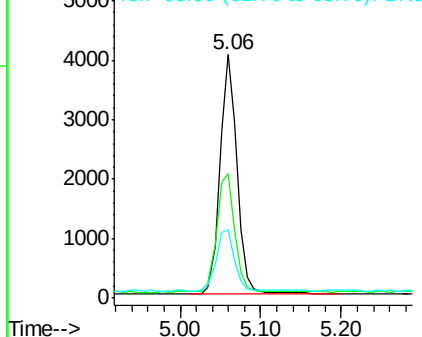


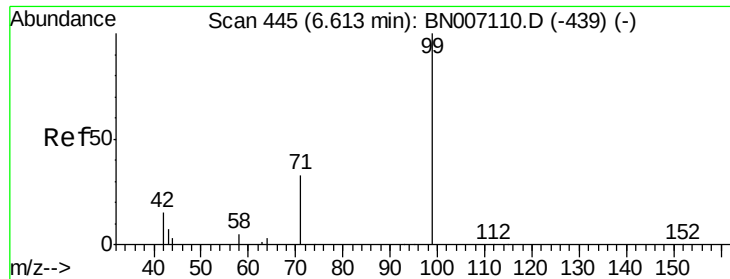
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.300 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

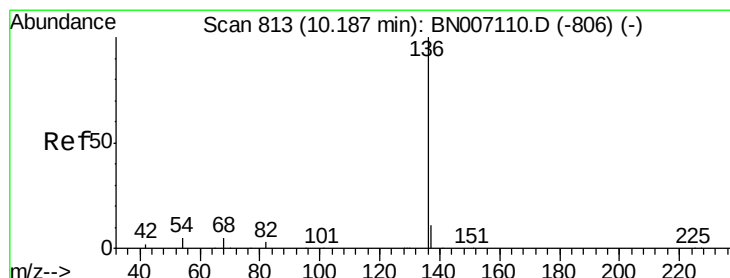
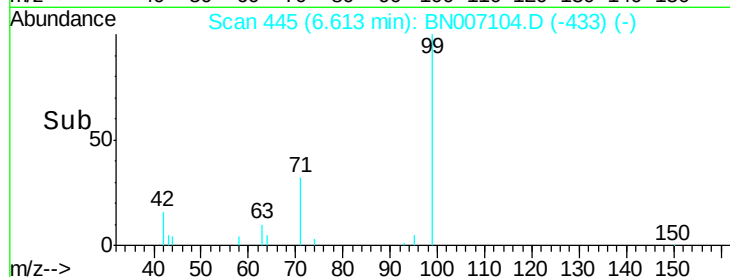
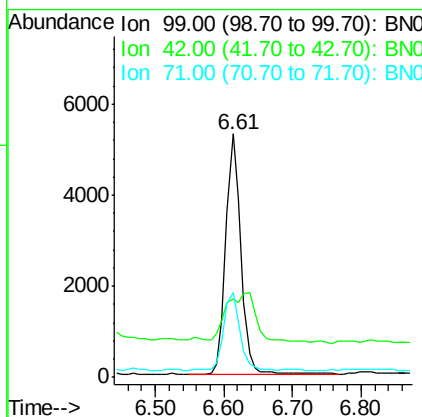
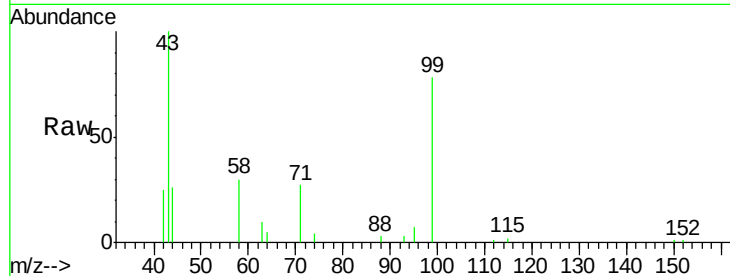
ClientSampleId :

EXT-008-SW121-073119

Tot Ion:	99	Resp:	8102
Ion Ratio	Lower	Upper	
99	100		
42	0.0	15.8	23.6#
71	34.5	27.0	40.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



#6

Naphthalene-d8

Concen: 0.400 ng

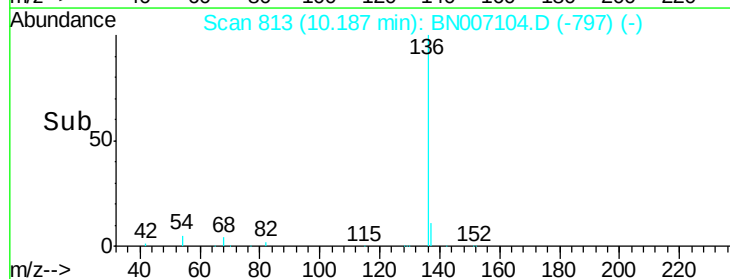
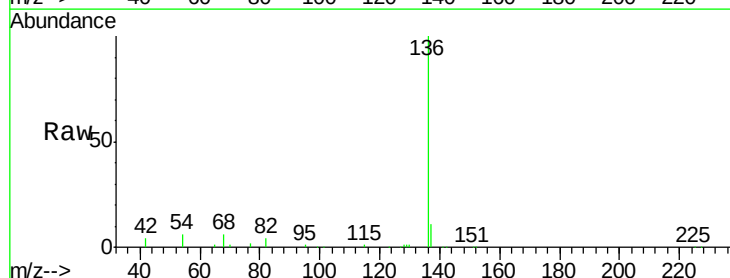
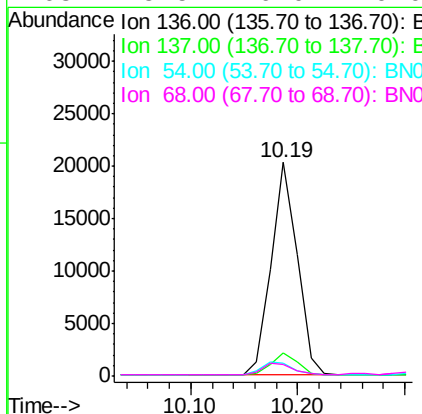
RT: 10.19 min Scan# 813

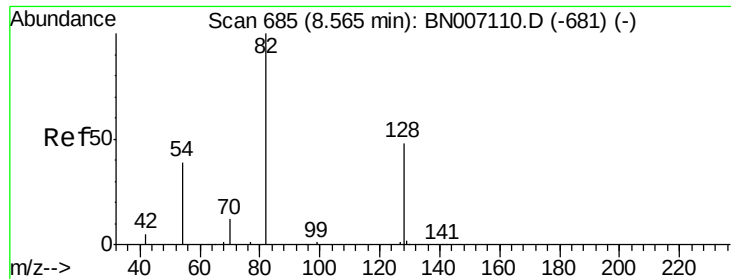
Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Tgt Ion:	136	Resp:	34207
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.4	14.0
54	6.2	6.6	9.8#
68	5.5	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.225 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

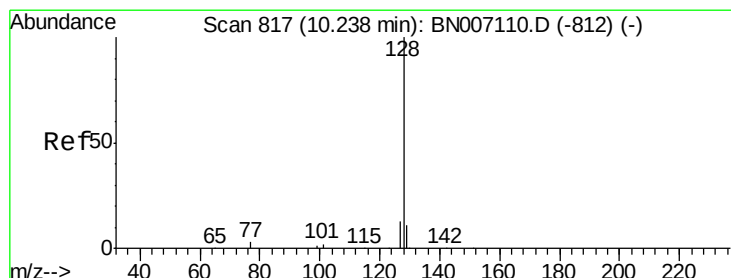
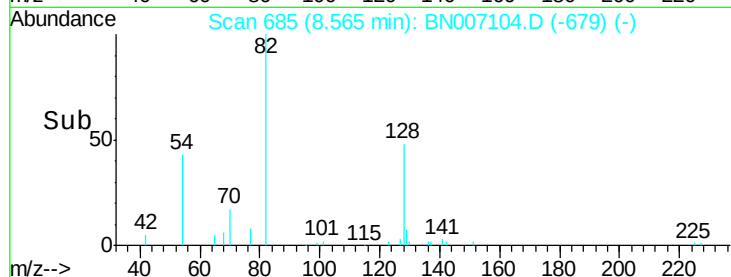
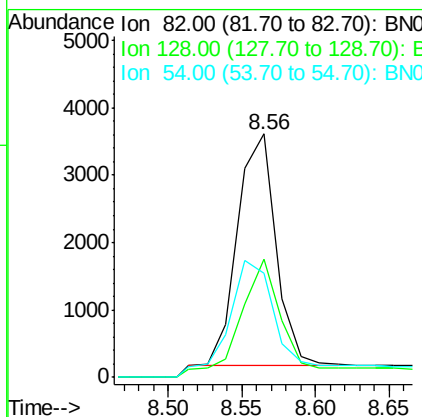
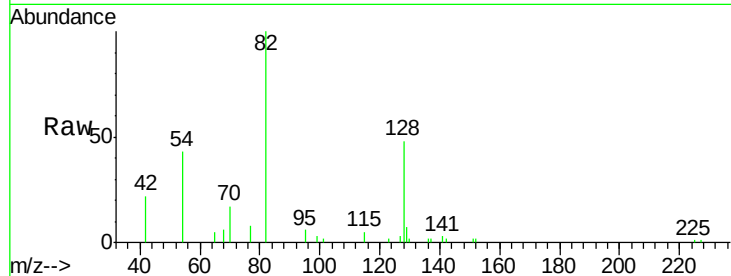
ClientSampleId :

EXT-008-SW121-073119

Tot Ion:	82	Resp:	6218
Ion	Ratio	Lower	Upper
82	100		
128	48.3	34.6	51.8
54	42.8	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



#8

Naphthalene

Concen: 0.204 ng

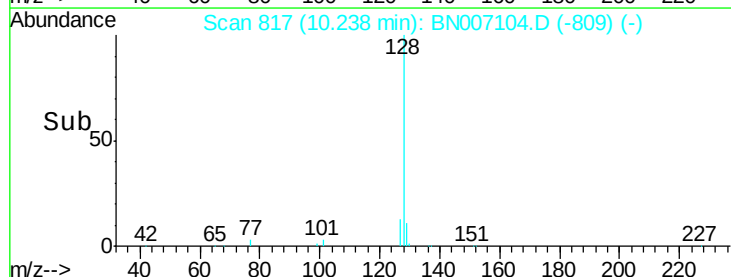
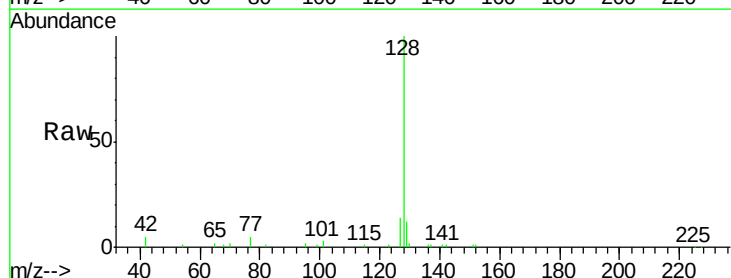
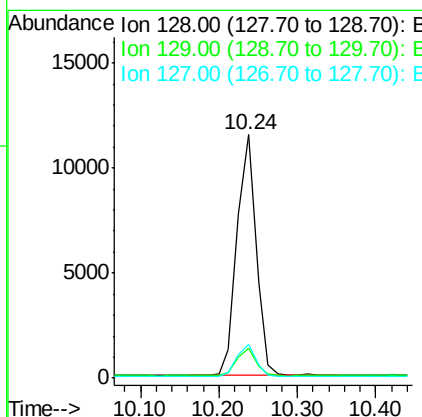
RT: 10.24 min Scan# 817

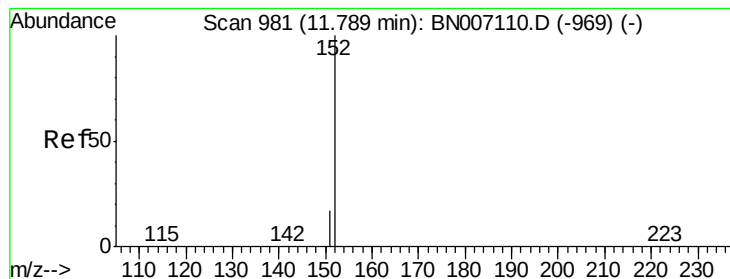
Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Tgt Ion:	128	Resp:	19532
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.4	14.2
127	13.7	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.239 ng

RT: 11.78 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

ClientSampleId :

EXT-008-SW121-073119

Tot Ion:152 Resp: 15220

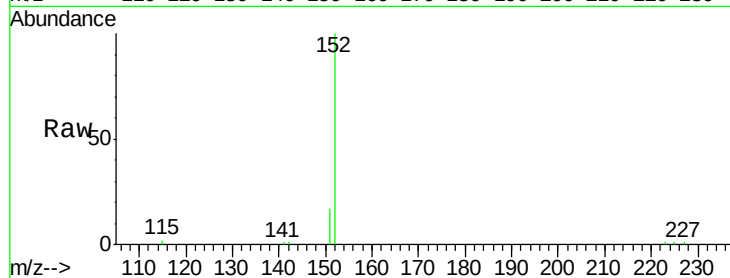
Ion Ratio Lower Upper

152 100

151 19.4 15.5 23.3

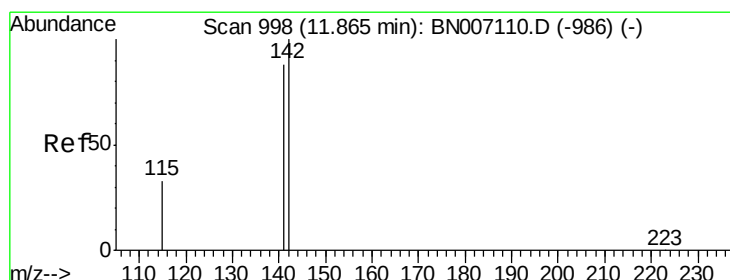
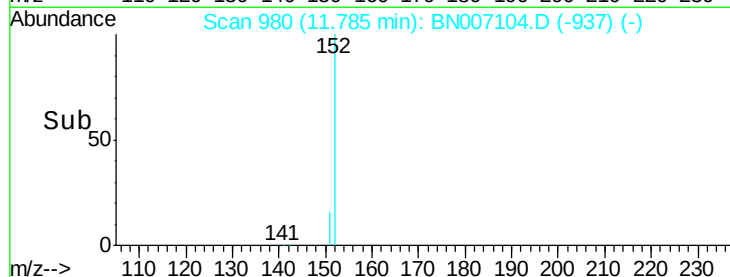
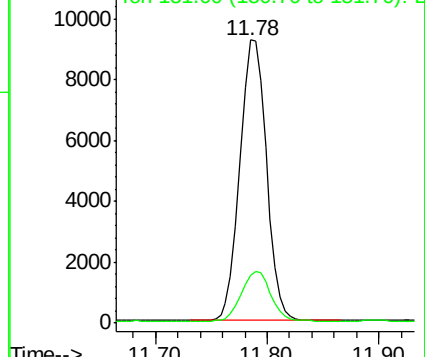
Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.095 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

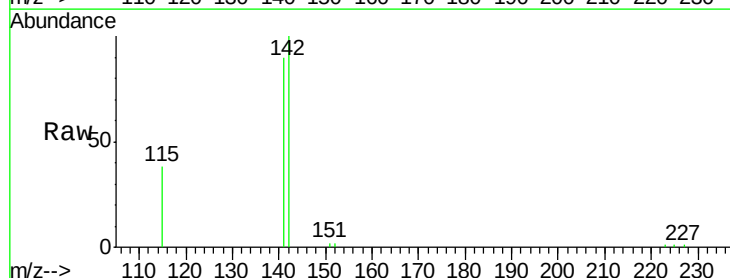
Tgt Ion:142 Resp: 6459

Ion Ratio Lower Upper

142 100

141 89.7 69.0 103.6

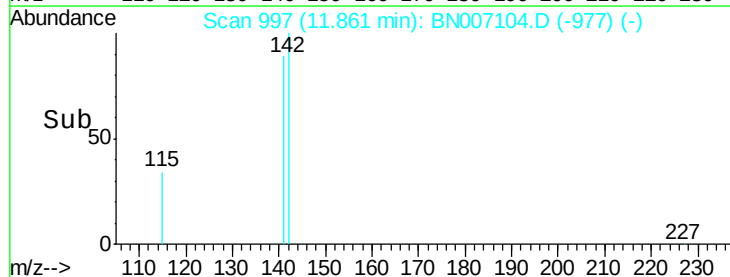
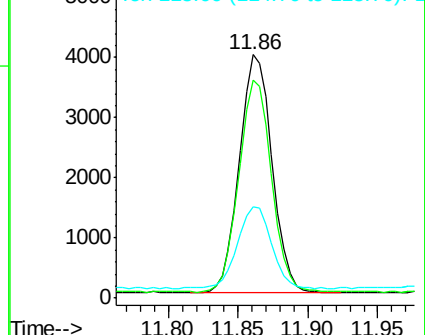
115 37.7 27.1 40.7

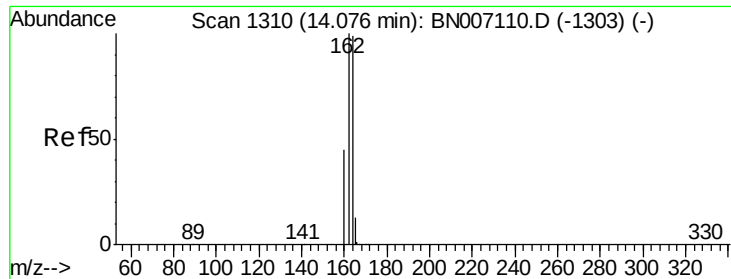


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





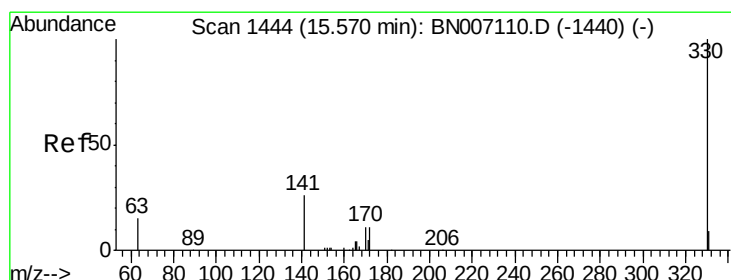
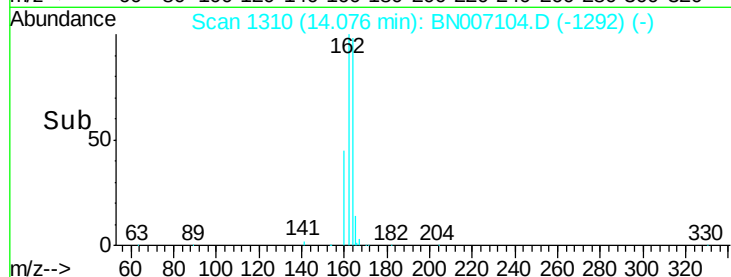
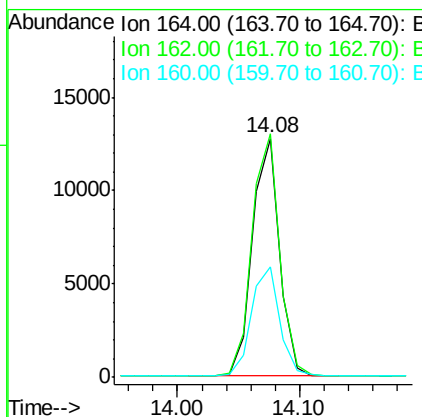
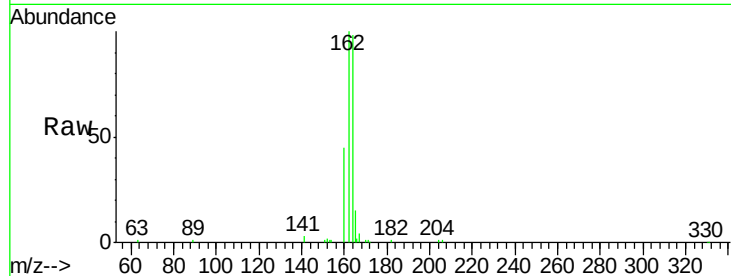
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.08 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.4
160	46.1	38.3	57.5

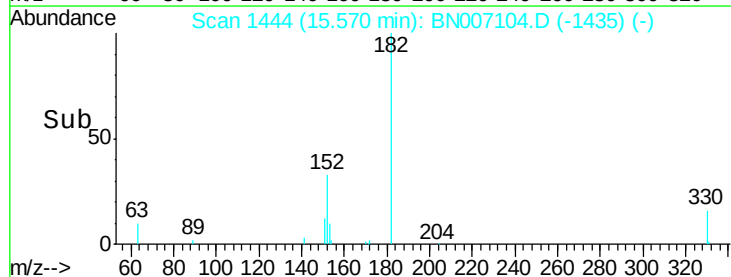
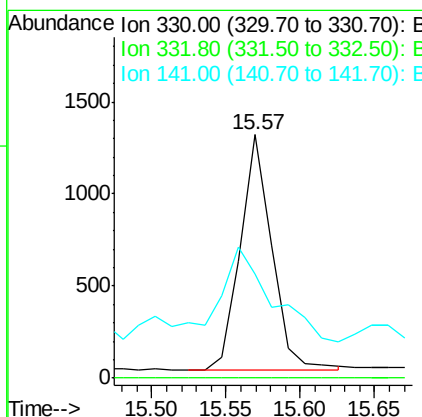
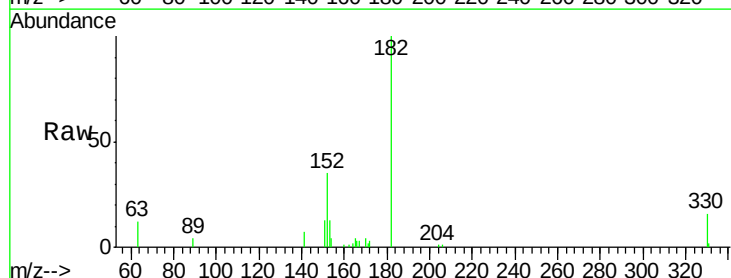
Manual Integrations
APPROVED

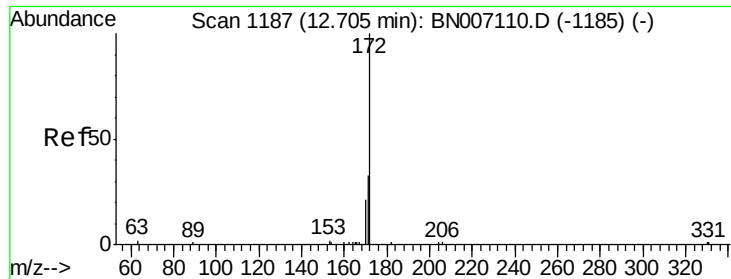
mohammad
8/14/2019 2:51:57 AM



#13
2,4,6-Tribromophenol
Concen: 0.174 ng
RT: 15.57 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	66.9	33.6	50.4#





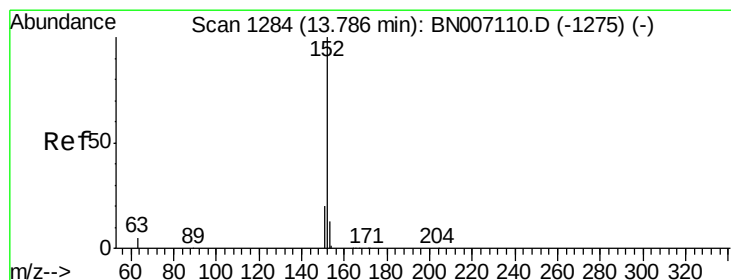
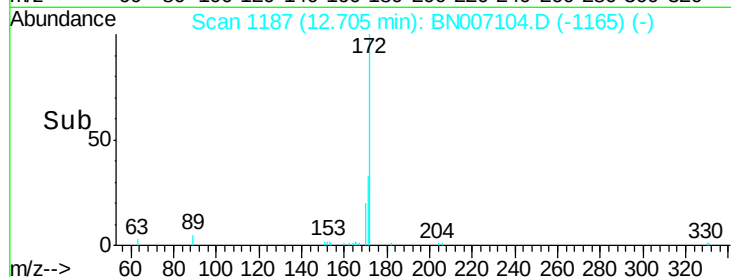
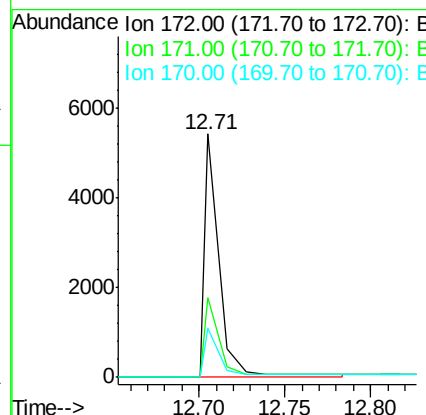
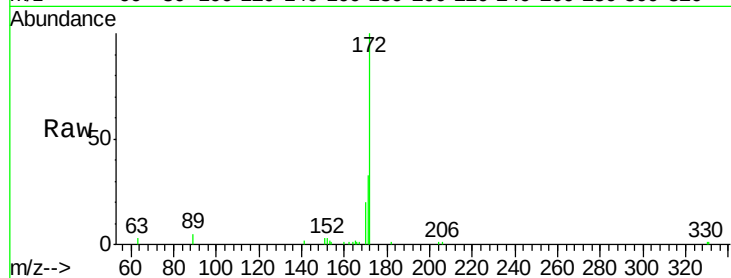
#14
2-Fluorobiphenyl
Concen: 0.131 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
172	100		
171	32.7	26.3	39.5
170	20.4	17.0	25.4

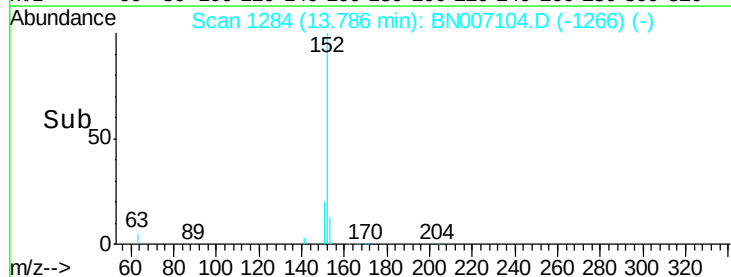
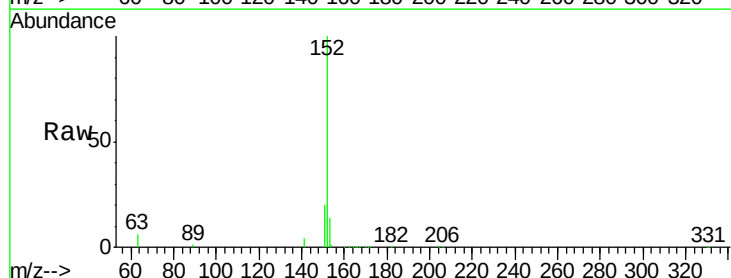
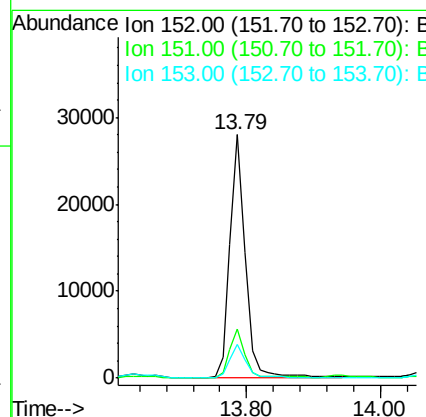
Manual Integrations
APPROVED

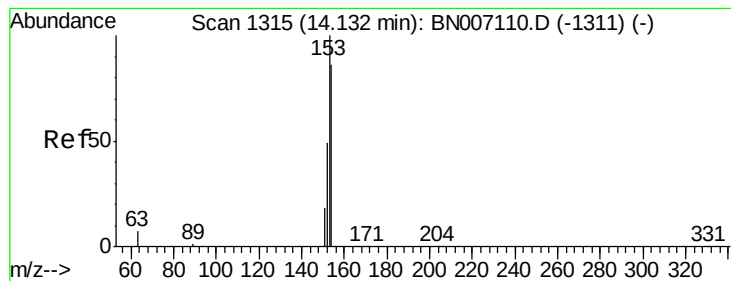
mohammad
8/14/2019 2:51:57 AM



#15
Acenaphthylene
Concen: 0.427 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	13.9	10.4	15.6





#16

Acenaphthene

Concen: 0.318 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

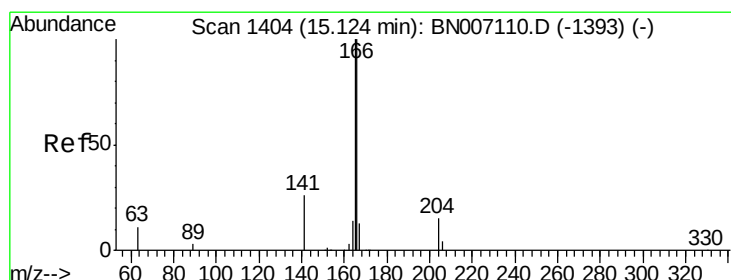
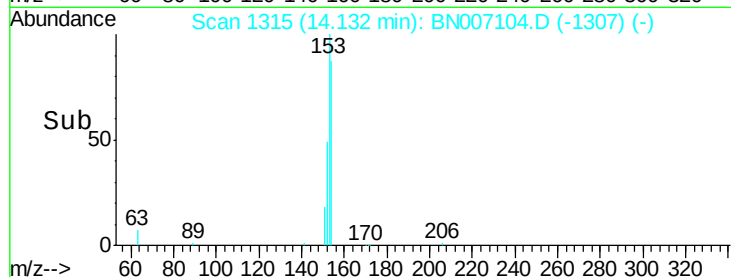
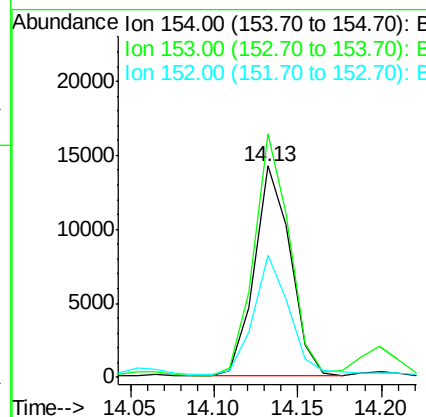
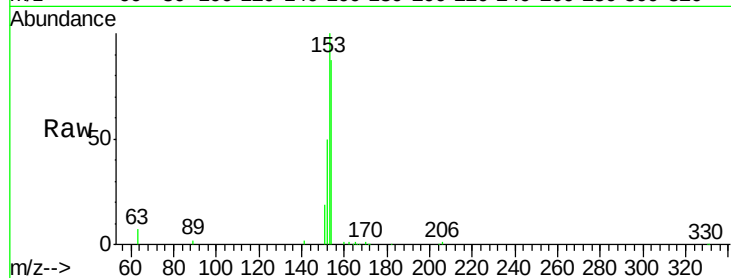
ClientSampleId :

EXT-008-SW121-073119

Tot Ion:	154	Resp:	21129
Ion Ratio	Lower	Upper	
154	100		
153	114.7	89.5	134.3
152	58.4	44.8	67.2

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



#17

Fluorene

Concen: 0.220 ng

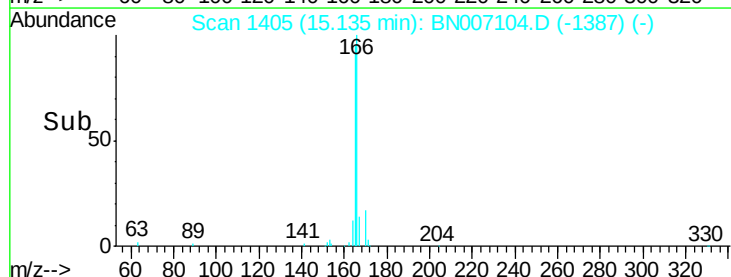
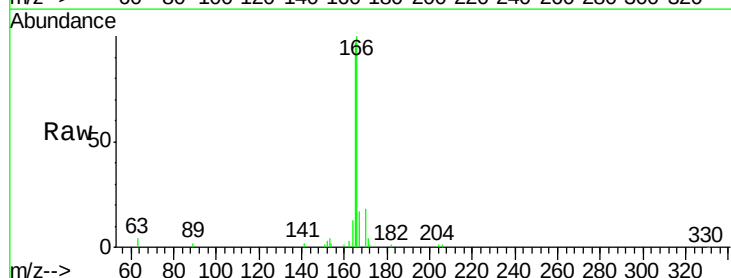
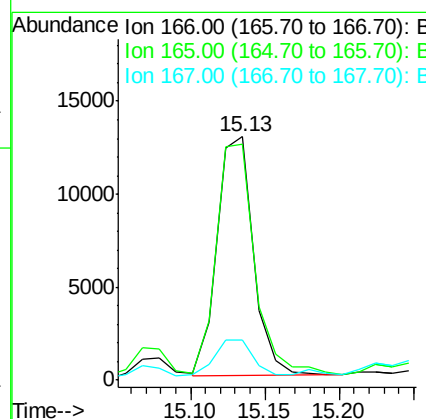
RT: 15.13 min Scan# 1405

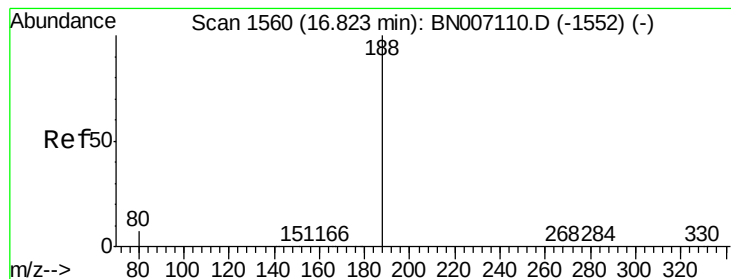
Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Tgt Ion:	166	Resp:	21813
Ion Ratio	Lower	Upper	
166	100		
165	102.5	77.9	116.9
167	16.7	10.9	16.3#





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

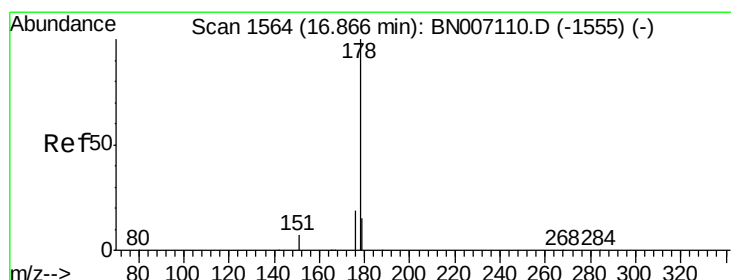
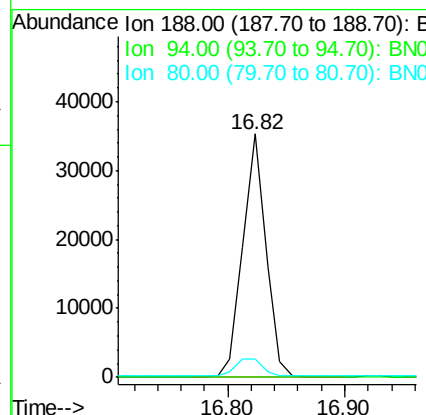
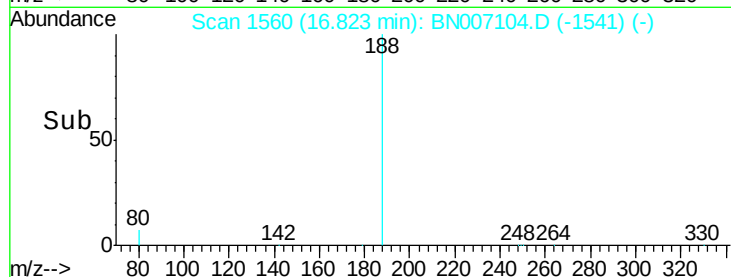
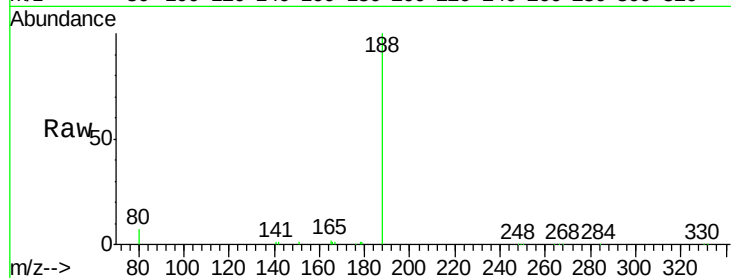
ClientSampleId :

EXT-008-SW121-073119

Tot Ion:	188	Resp:	47936
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.5	7.8	11.6#

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



#22

Phenanthrene

Concen: 4.773 ng

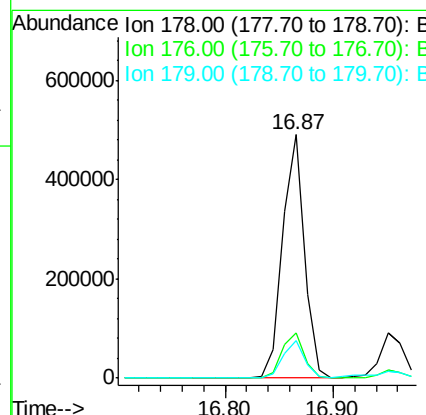
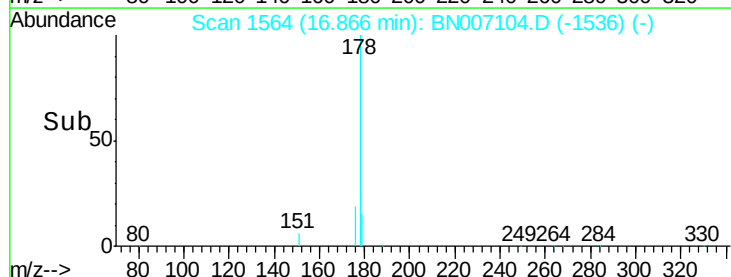
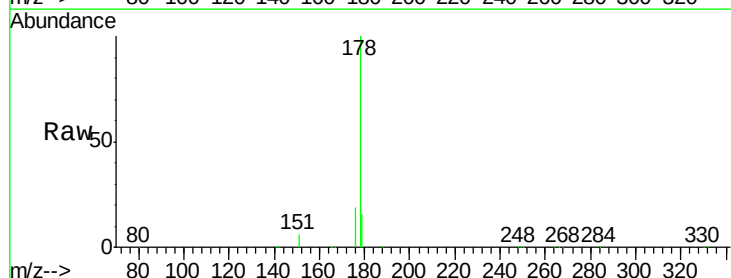
RT: 16.87 min Scan# 1564

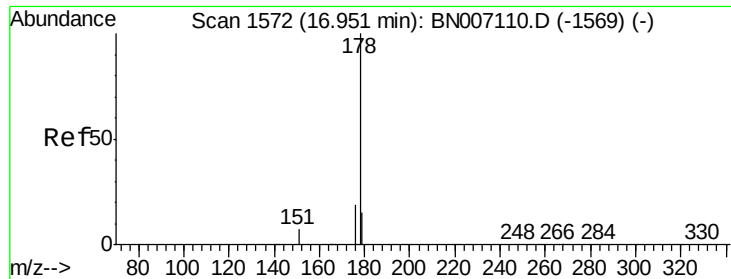
Delta R.T. -0.00 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Tgt Ion:	178	Resp:	685667
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.2	22.8
179	15.4	12.3	18.5





#23

Anthracene

Concen: 1.012 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

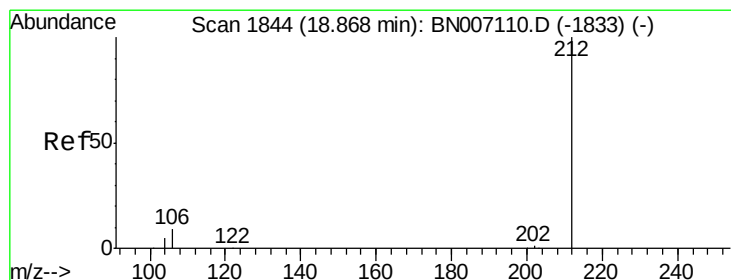
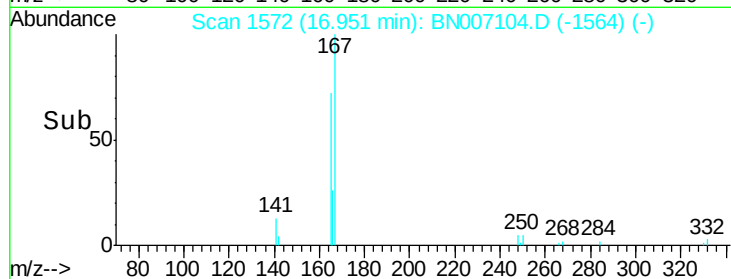
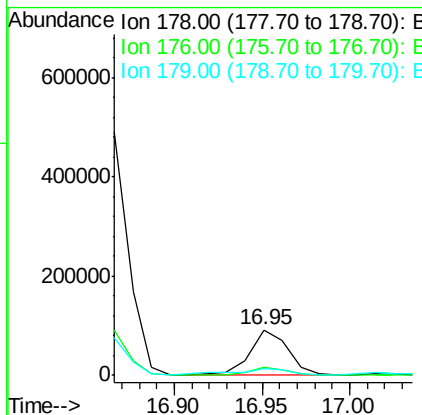
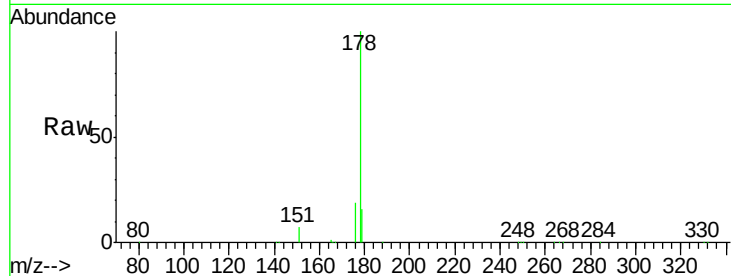
ClientSampleId :

EXT-008-SW121-073119

Tot Ion:178	Resp:	132873
Ion Ratio	Lower	Upper
178	100	
176	18.5	14.6 21.8
179	21.6	12.5 18.7#

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



#24

Fluoranthene-d10

Concen: 0.231 ng

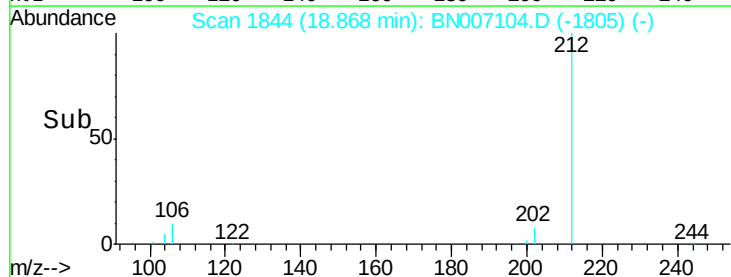
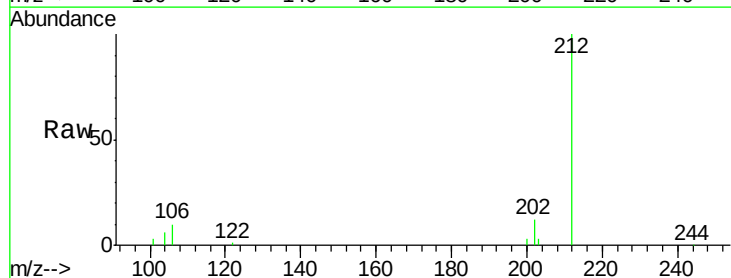
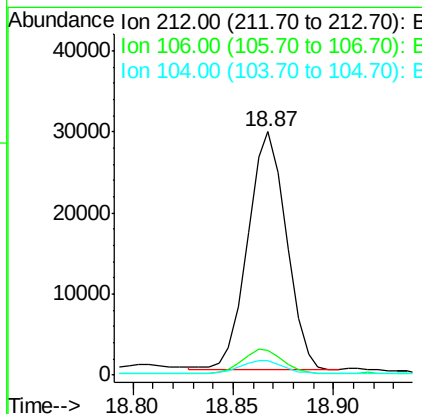
RT: 18.87 min Scan# 1844

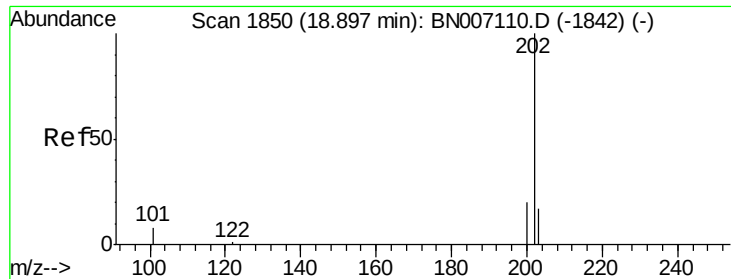
Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Tgt Ion:212	Resp:	39259
Ion Ratio	Lower	Upper
212	100	
106	10.3	8.2 12.2
104	6.1	4.5 6.7





#25

Fluoranthene

Concen: 7.682 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Instrument :

BNA_N

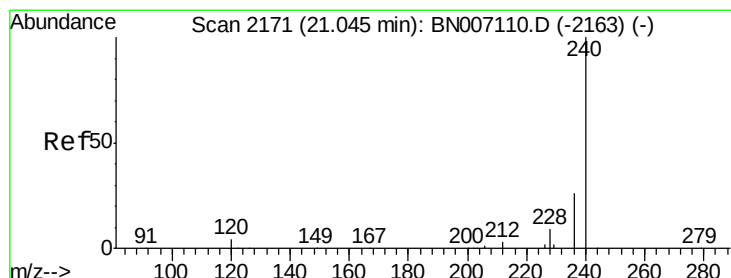
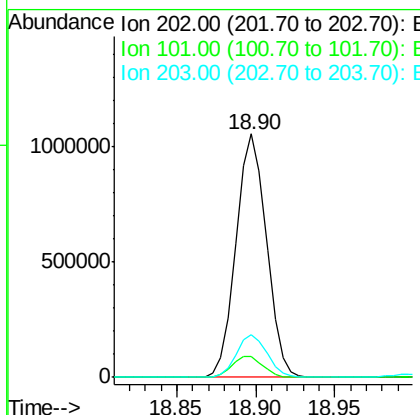
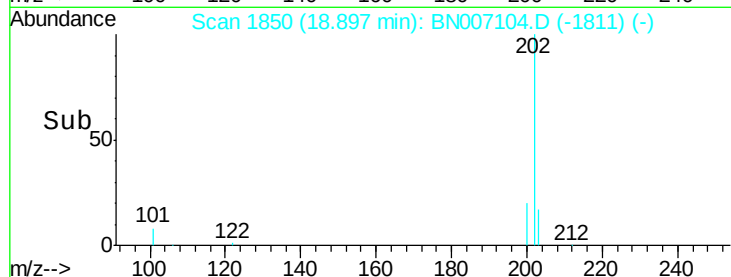
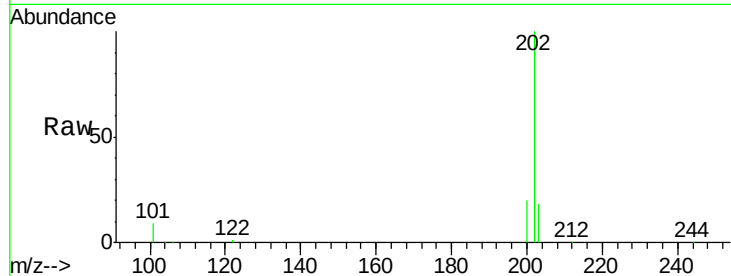
ClientSampleId :

EXT-008-SW121-073119

Tot Ion:	202	Resp:	1411674
Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.0	10.4
203	17.6	13.8	20.8

Manual Integrations
APPROVED

mohammad
8/14/2019 2:51:57 AM



#26

Chrysene-d12

Concen: 0.400 ng

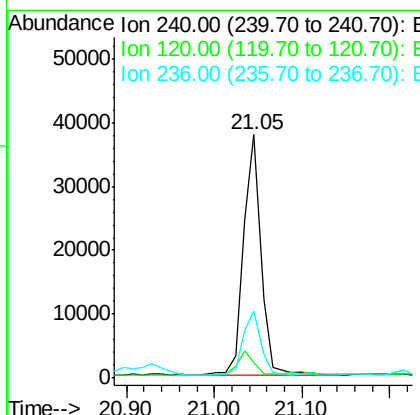
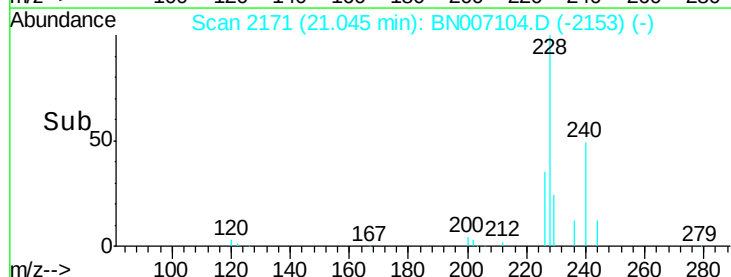
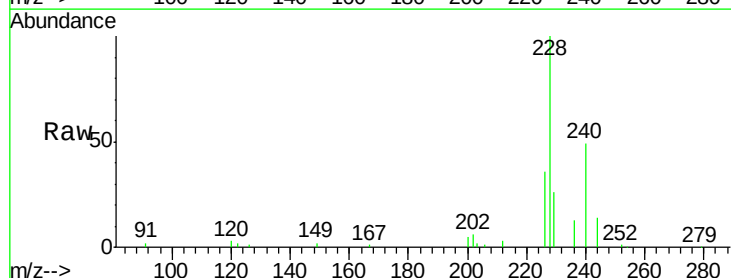
RT: 21.05 min Scan# 2171

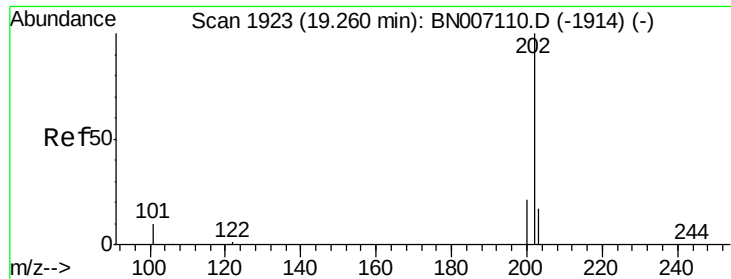
Delta R.T. -0.01 min

Lab File: BN007104.D

Acq: 12 Aug 2019 18:54

Tgt Ion:	240	Resp:	51759
Ion	Ratio	Lower	Upper
240	100		
120	6.3	4.0	6.0#
236	27.7	21.3	31.9





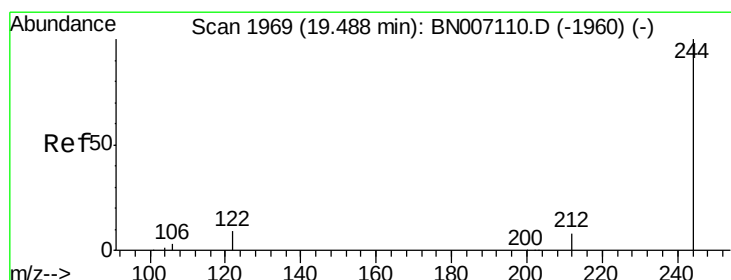
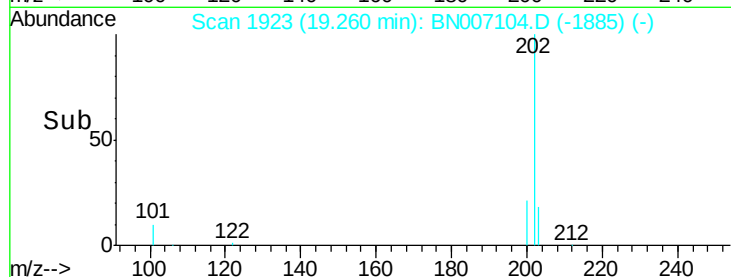
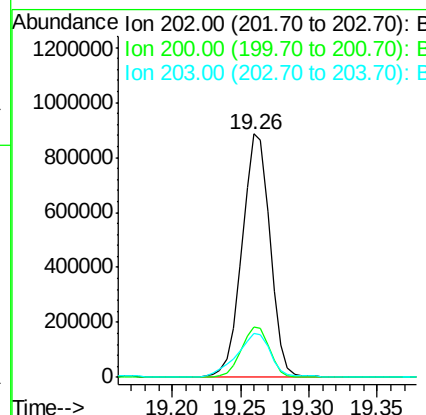
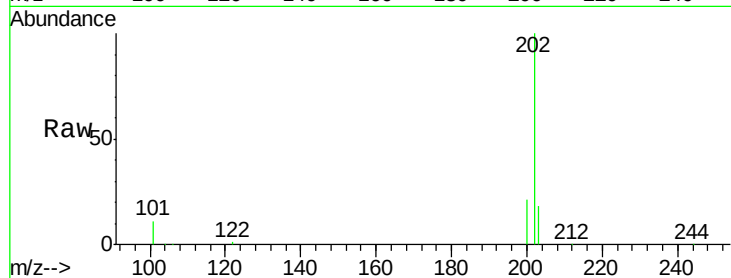
#27
Pvrene
Concen: 6.926 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	21.8	14.0	21.0

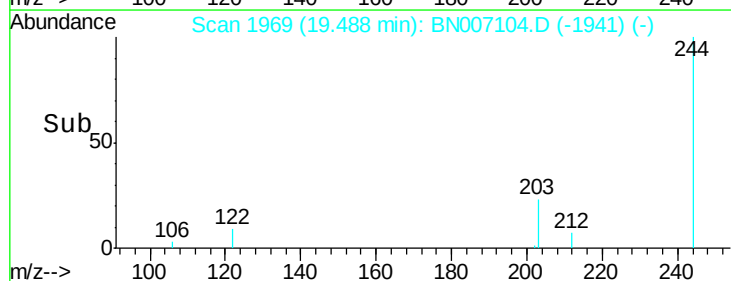
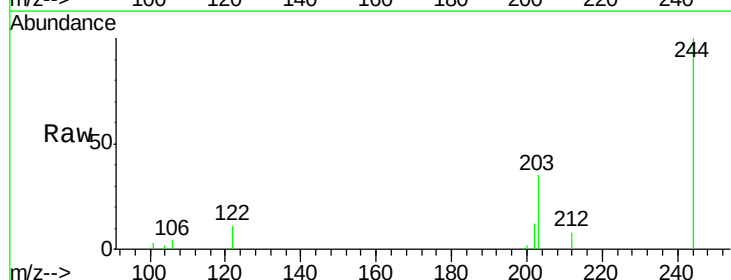
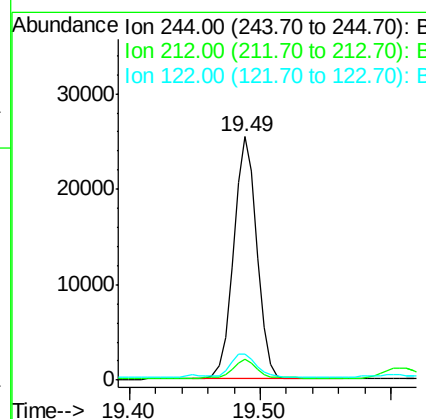
Manual Integrations
APPROVED

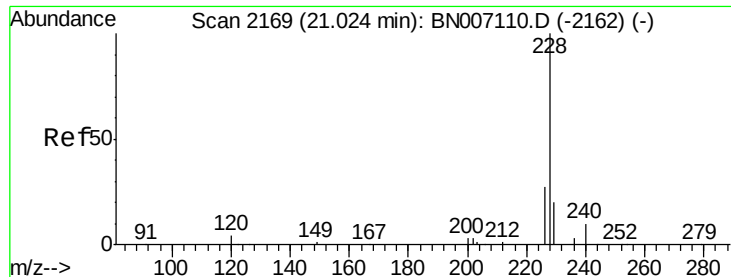
mohammad
8/14/2019 2:51:57 AM



#28
Terphenyl-d14
Concen: 0.224 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.5	6.2	9.2
122	10.7	7.4	11.2





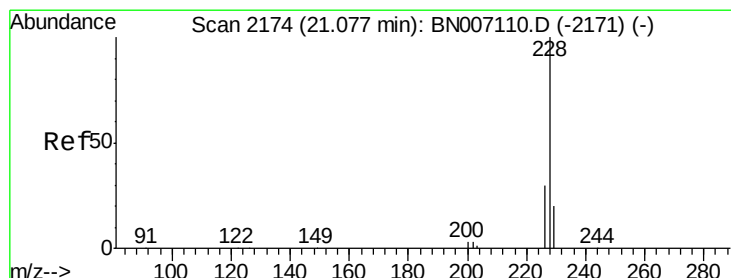
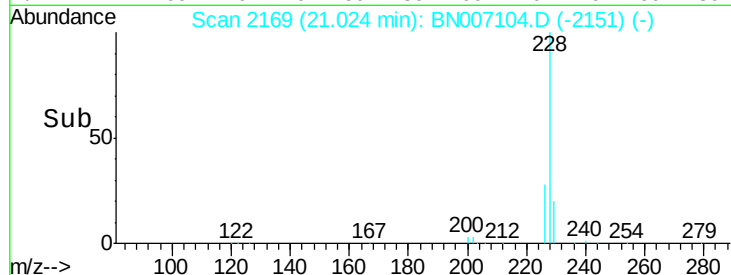
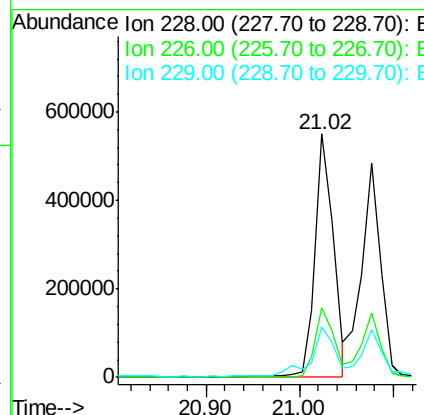
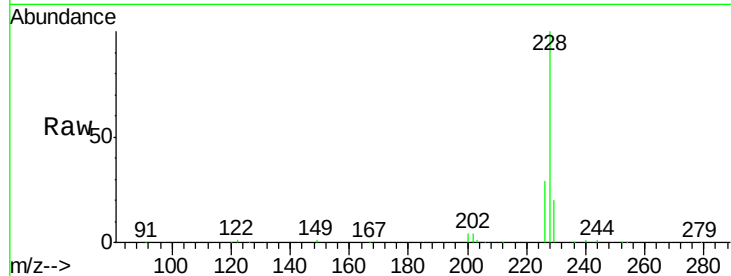
#29
Benzo(a)anthracene
Concen: 3.899 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	21.8	32.6
229	20.4	15.6	23.4

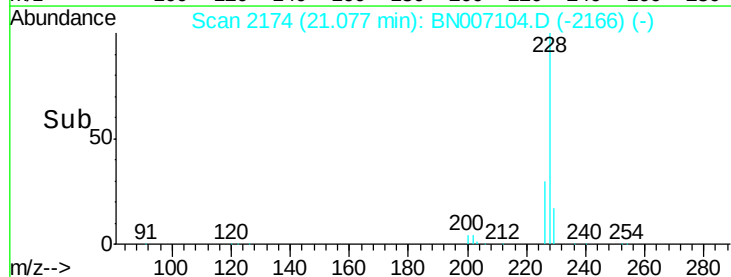
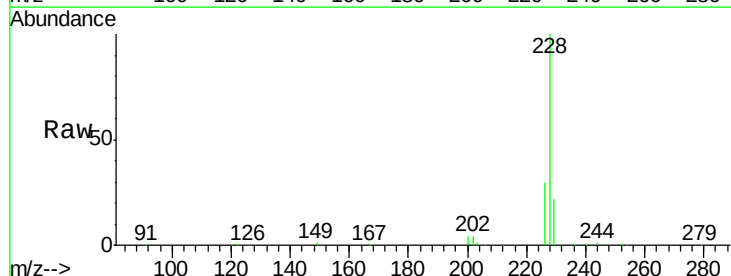
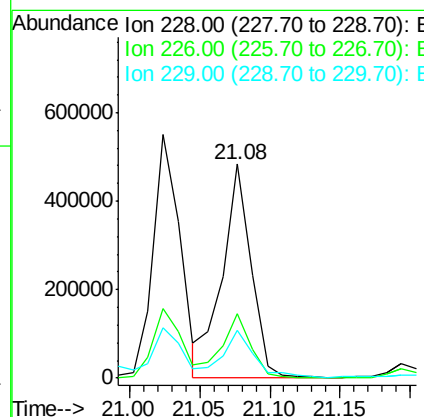
Manual Integrations
APPROVED

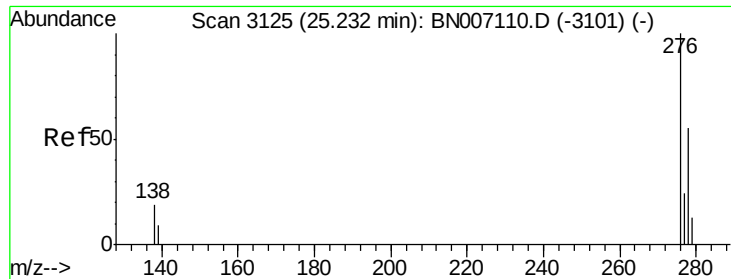
mohammad
8/14/2019 2:51:57 AM



#30
Chrysene
Concen: 3.729 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.6
229	22.3	15.7	23.5





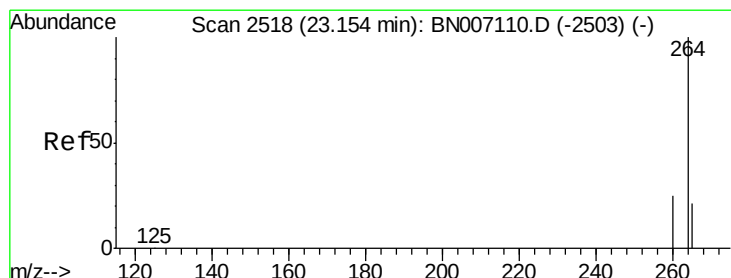
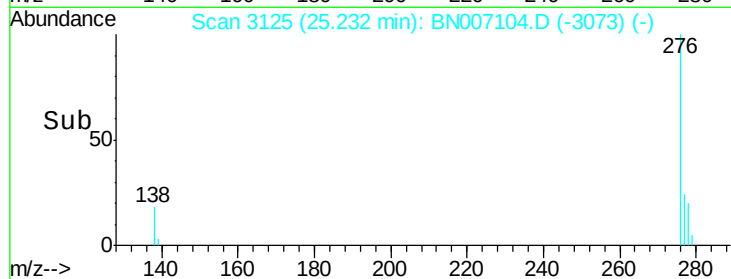
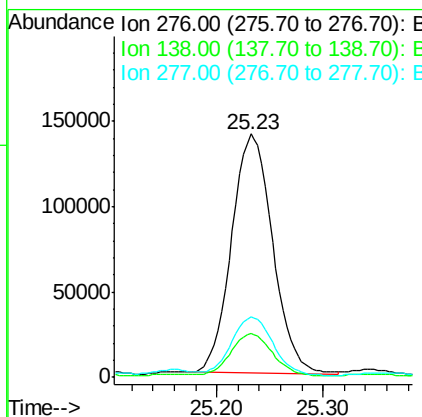
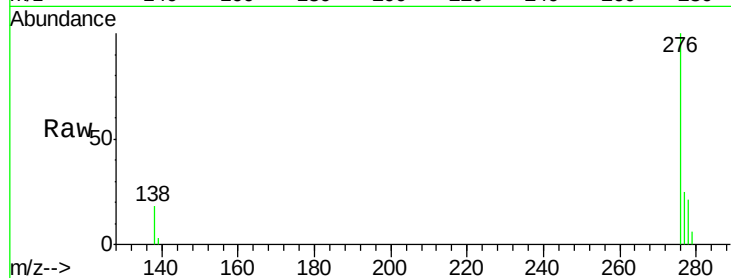
#31
Indeno(1,2,3-cd)pyrene
Concen: 1.864 ng
RT: 25.23 min Scan# 3125
Delta R.T. -0.02 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Resp	Lower	Upper
276	100	377890		
138	18.0	16.0	24.0	
277	24.5	19.9	29.9	

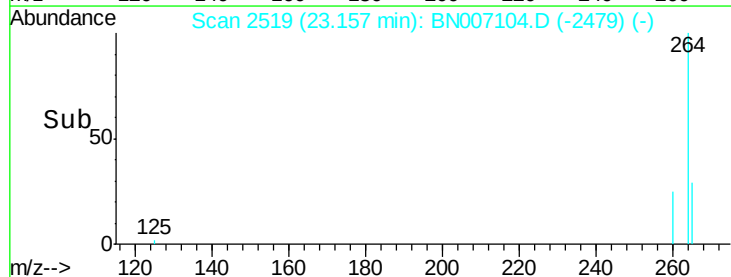
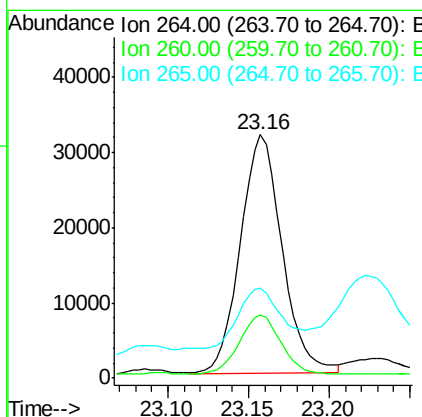
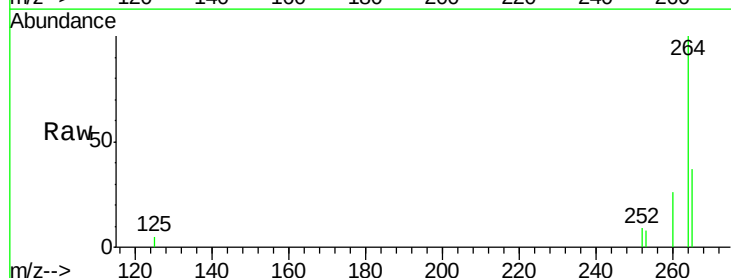
Manual Integrations
APPROVED

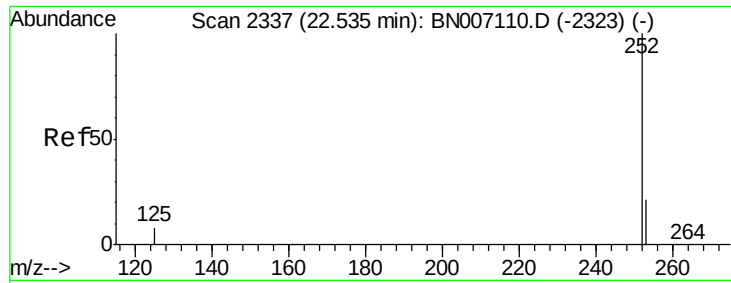
mohammad
8/14/2019 2:51:57 AM



#32
Perylene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	56847		
260	26.0	19.8	29.8	
265	37.0	26.2	39.4	





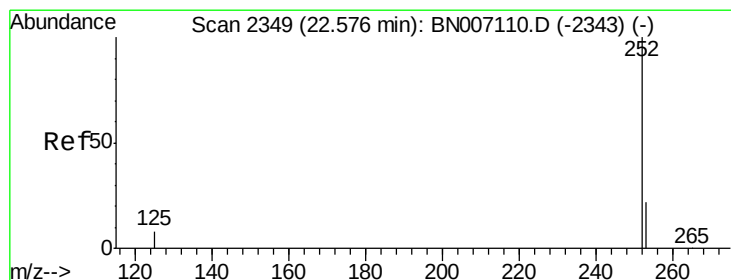
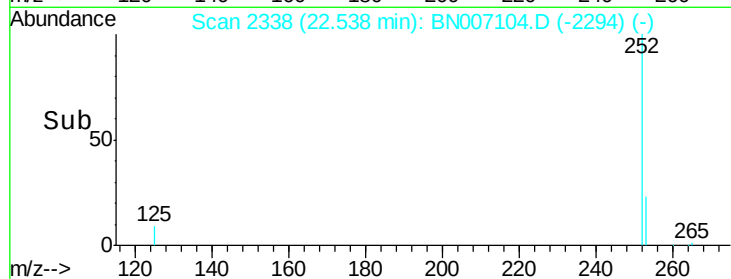
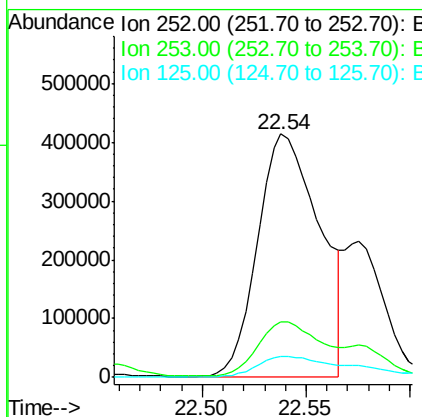
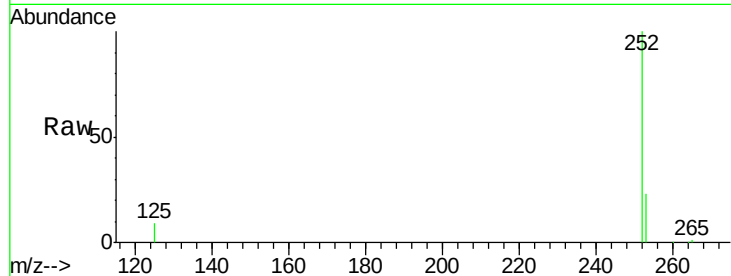
#33
Benzo(b)fluoranthene
Concen: 4.384 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	8.6	7.4	11.0

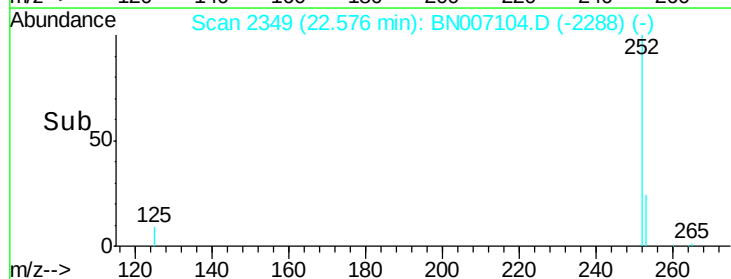
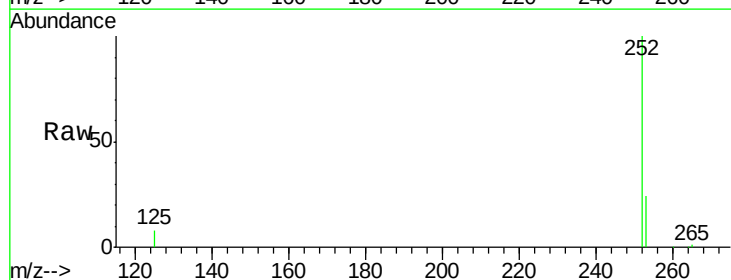
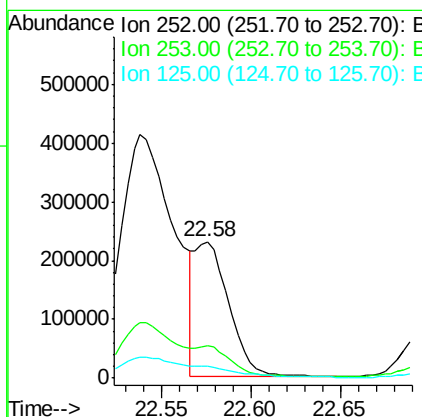
Manual Integrations
APPROVED

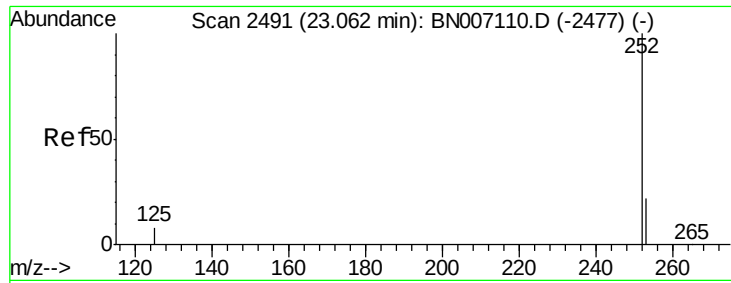
mohammad
8/14/2019 2:51:57 AM



#34
Benzo(k)fluoranthene
Concen: 1.596 ng m
RT: 22.58 min Scan# 2349
Delta R.T. -0.01 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	8.5	7.4	11.0





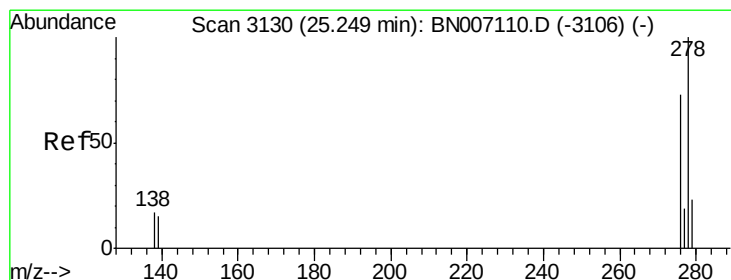
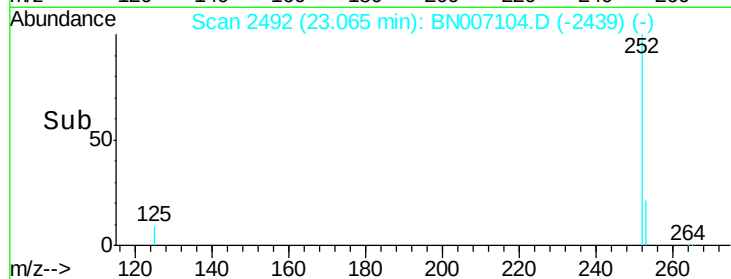
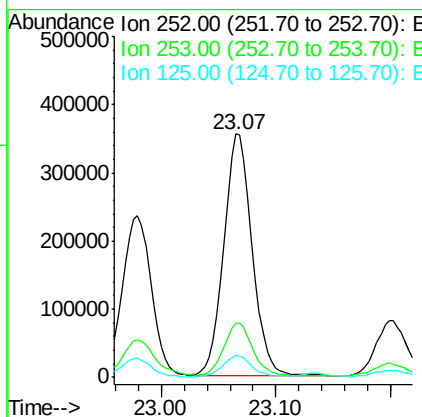
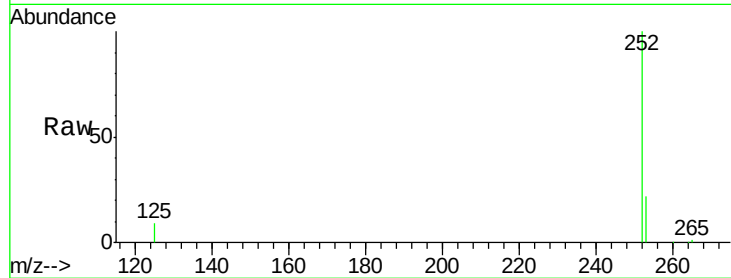
#35
Benzo(a)pyrene
Concen: 3.484 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.5	27.7
125	9.0	8.2	12.4

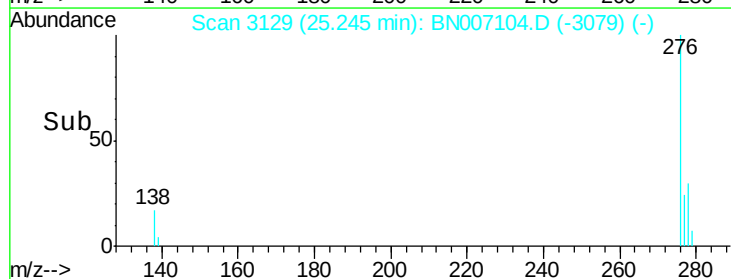
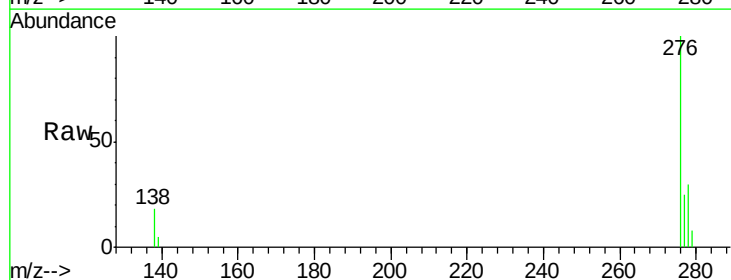
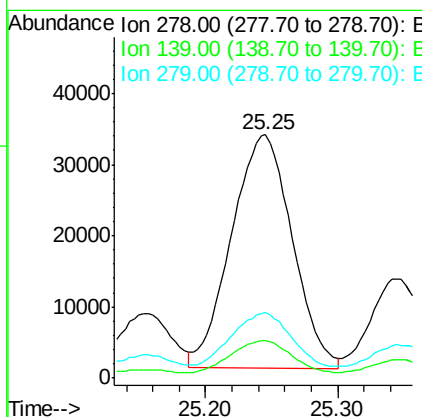
Manual Integrations
APPROVED

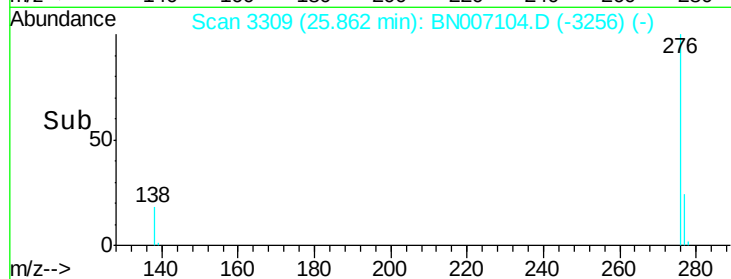
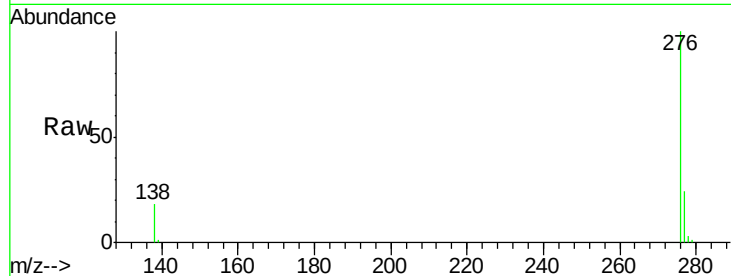
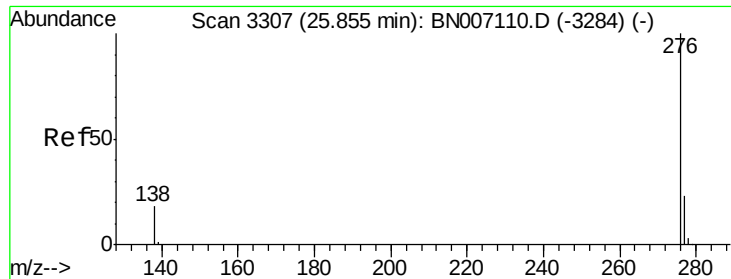
mohammad
8/14/2019 2:51:57 AM



#36
Dibenzo(a,h)anthracene
Concen: 0.596 ng
RT: 25.25 min Scan# 3129
Delta R.T. -0.03 min
Lab File: BN007104.D
Acq: 12 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.3	11.3	16.9
279	26.9	19.3	28.9





#37
 Benzo(a,h,i)perylene
 Concen: 1.909 ng
 RT: 25.86 min Scan# 3309
 Delta R.T. -0.02 min
 Lab File: BN007104.D
 Acq: 12 Aug 2019 18:54

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW121-073119

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.8
138	18.2	14.6	22.0

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:51:57 AM

