

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007116.D
 Acq On : 13 Aug 2019 05:42
 Operator : HP/JU
 Sample : K4144-02
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-006-SW127-073119

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:52:29 AM

Quant Time: Aug 13 08:28:07 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	9714	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37957	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	23234	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	53452	0.40	ng	0.00
26) Chrysene-d12	21.05	240	51773	0.40	ng	-0.01
32) Perylene-d12	23.16	264	57635	0.40	ng	-0.01

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	5974	0.26	ng	0.00
4) Phenol-d6	6.61	99	7985	0.28	ng	0.00
7) Nitrobenzene-d5	8.56	82	6657	0.22	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14911	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2680	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3632	0.11	ng	0.00
24) Fluoranthene-d10	18.87	212	39194	0.21	ng	0.00
28) Terphenyl-d14	19.49	244	30599	0.22	ng	-0.01

Target Compounds

						Qvalue
8) Naphthalene	10.24	128	9755	0.092	ng	# 94
11) 2-Methylnaphthalene	11.87	142	6289	0.083	ng	# 92
15) Acenaphthylene	13.79	152	119225	0.982	ng	99
16) Acenaphthene	14.13	154	6180	0.079	ng	95
17) Fluorene	15.13	166	17898	0.154	ng	# 79
21) Pentachlorophenol	16.48	266	326	0.028	ng	# 83
22) Phenanthrene	16.87	178	318527	1.988	ng	100
23) Anthracene	16.95	178	125559	0.858	ng	97
25) Fluoranthene	18.90	202	816655	3.985	ng	99
27) Pvrene	19.26	202	778338	4.287	ng	# 95
29) Benzo(a)anthracene	21.02	228	376691m	1.990	ng	
30) Chrysene	21.08	228	518347	2.818	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	379316	1.871	ng	99
33) Benzo(b)fluoranthene	22.54	252	718775	3.637	ng	# 98
34) Benzo(k)fluoranthene	22.58	252	236523m	1.212	ng	
35) Benzo(a)pyrene	23.07	252	430614	2.403	ng	98
36) Dibenzo(a,h)anthracene	25.25	278	92115	0.515	ng	# 76
37) Benzo(a,h,i)perylene	25.87	276	419028	2.279	ng	98

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

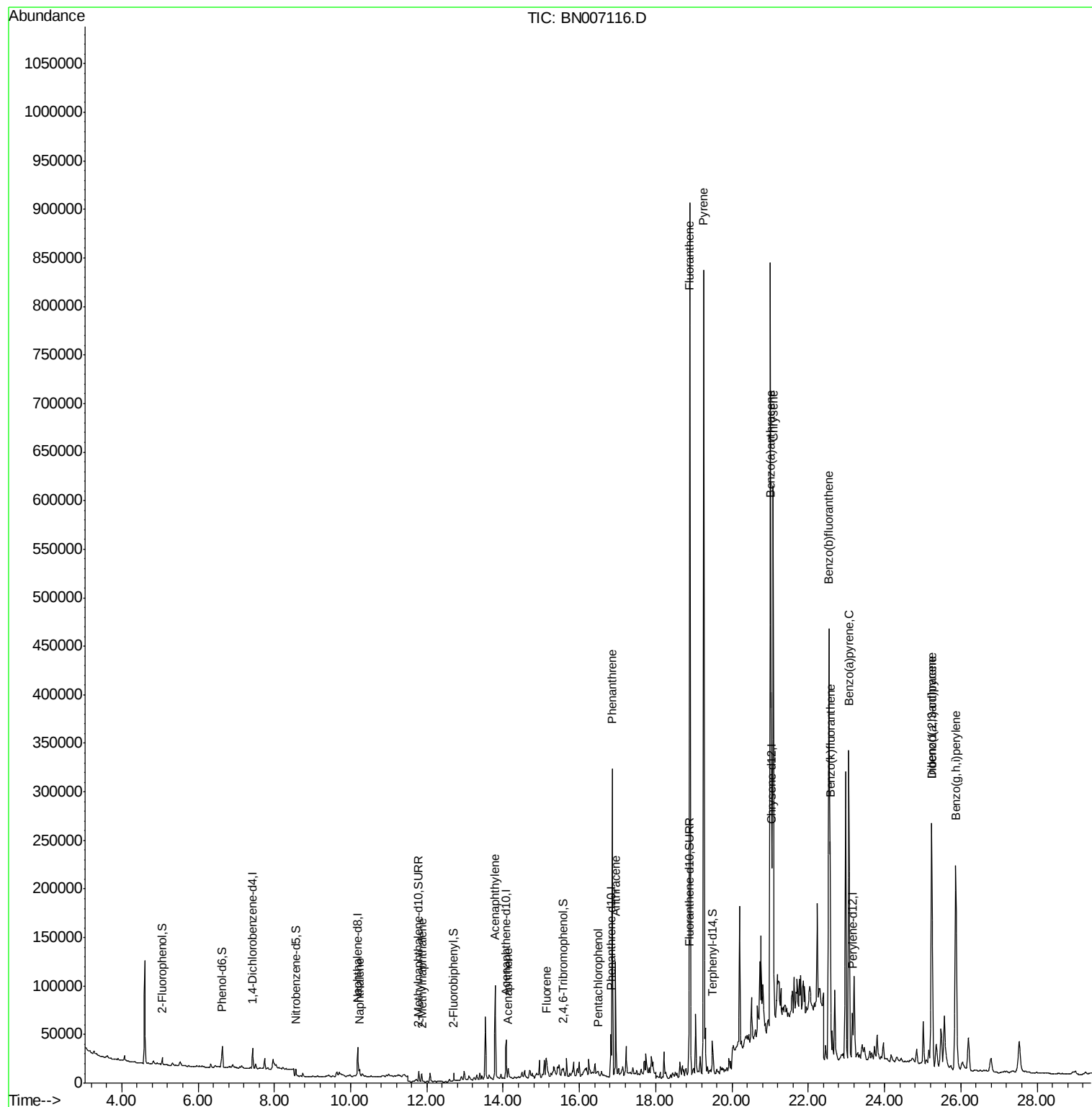
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
Data File : BN007116.D
Acq On : 13 Aug 2019 05:42
Operator : HP/JU
Sample : K4144-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

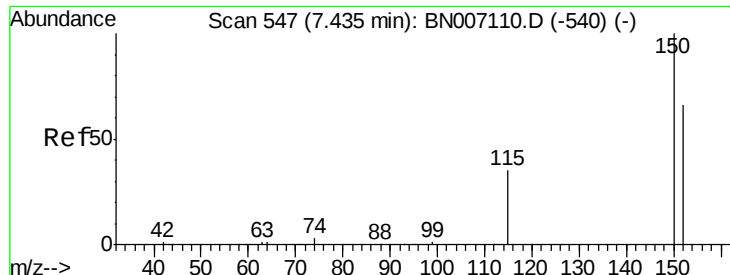
Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM

Quant Time: Aug 13 08:28:07 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

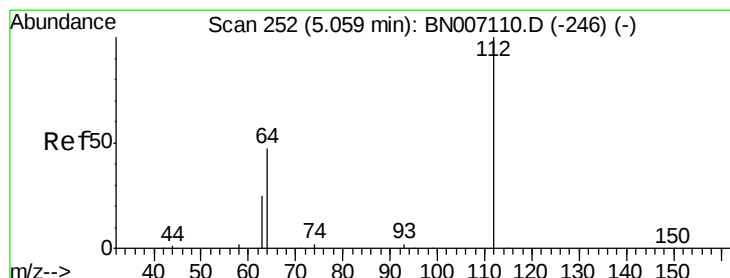
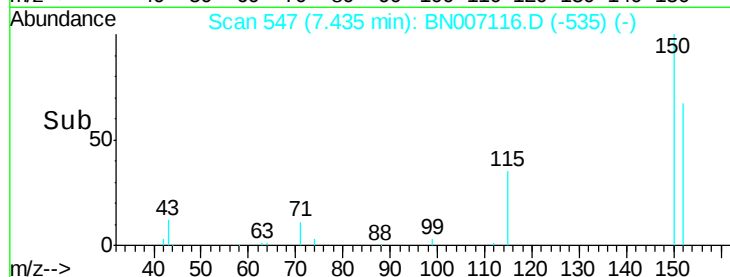
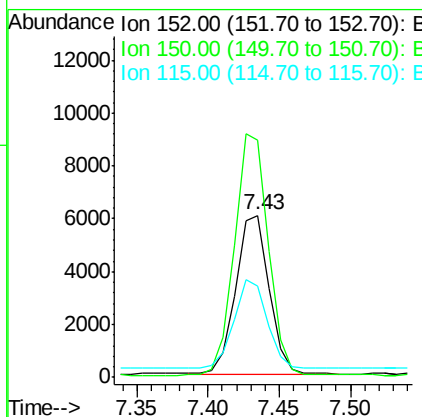
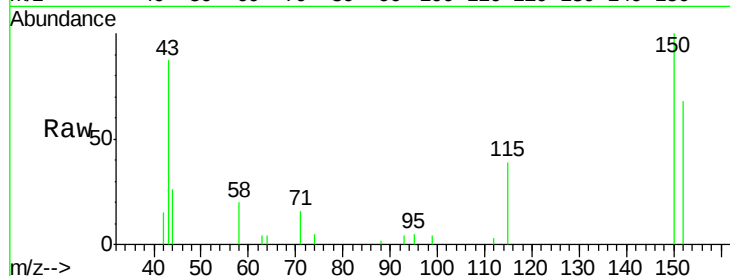
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Tot Ion	Ratio	Lower	Upper
152	100		
150	146.9	121.7	182.5
115	56.7	46.2	69.4

Manual Integrations
APPROVED

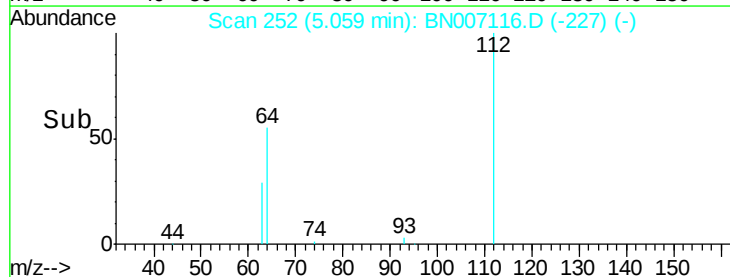
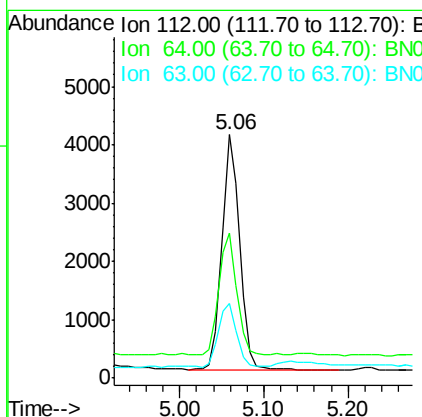
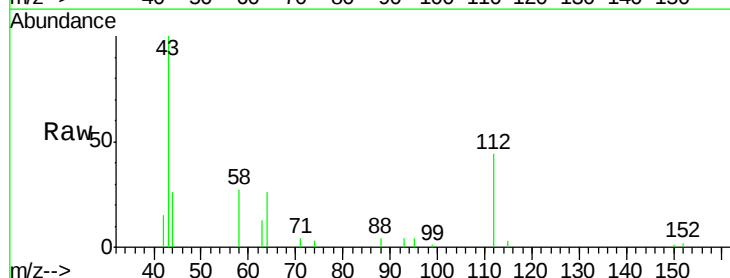
mohammad
8/14/2019 2:52:29 AM

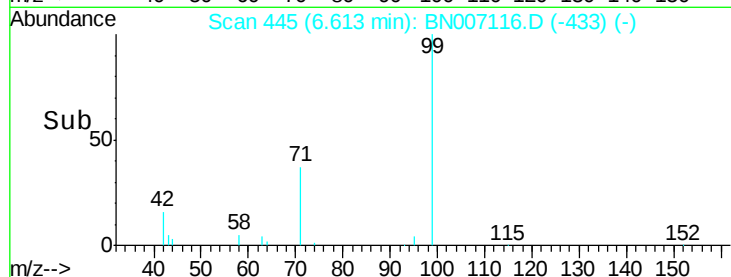
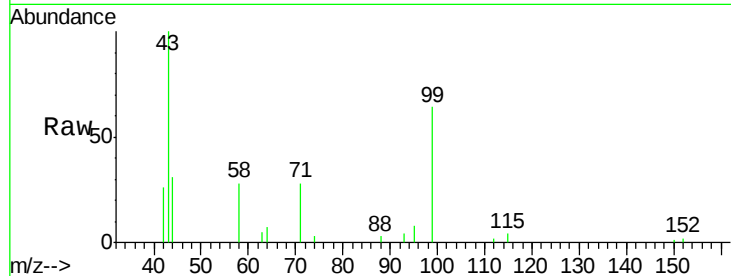
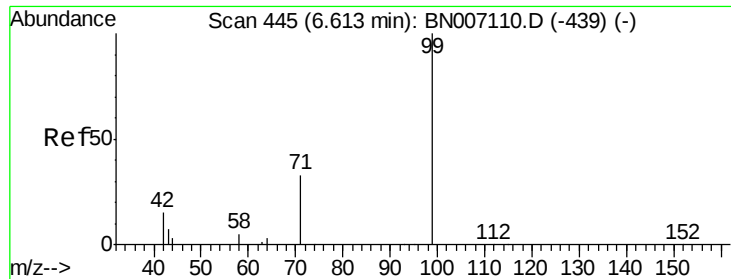


#3

2-Fluorophenol
Concen: 0.256 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.5	42.6	63.8
63	26.9	22.2	33.2





#4

Phenol-d6

Concen: 0.276 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tot Ion:	99	Resp:	7985
Ion	Ratio	Lower	Upper
99	100		
42	42.8	15.8	23.6#
71	41.9	27.0	40.4#

Instrument :

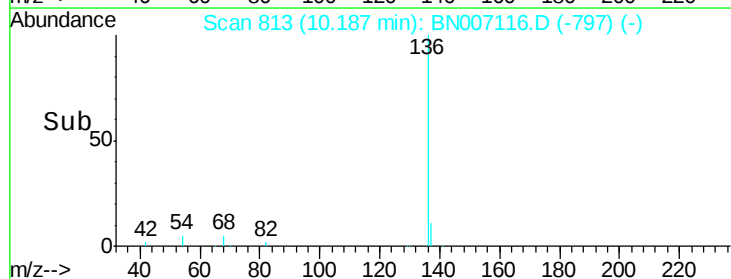
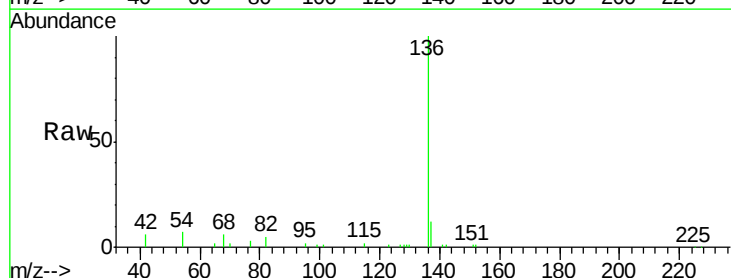
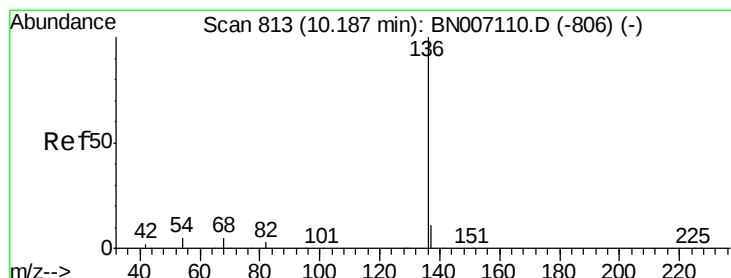
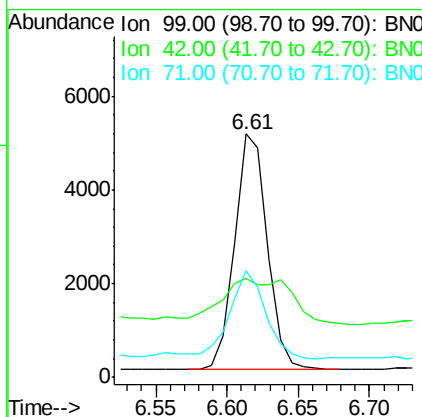
BNA_N

ClientSampleId :

EXT-006-SW127-073119

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#6

Naphthalene-d8

Concen: 0.400 ng

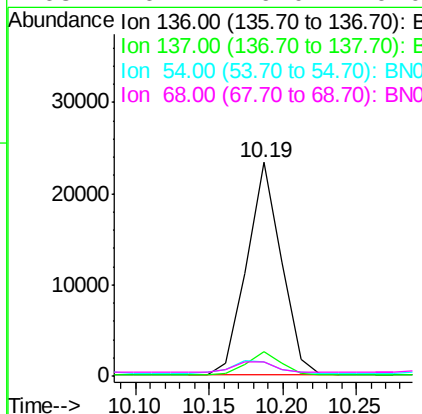
RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:	136	Resp:	37957
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.4	14.0
54	6.5	6.6	9.8#
68	6.4	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.218 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

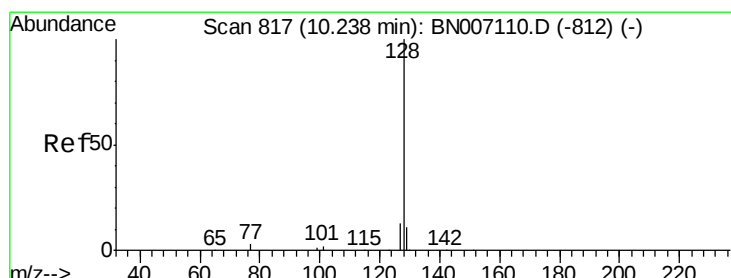
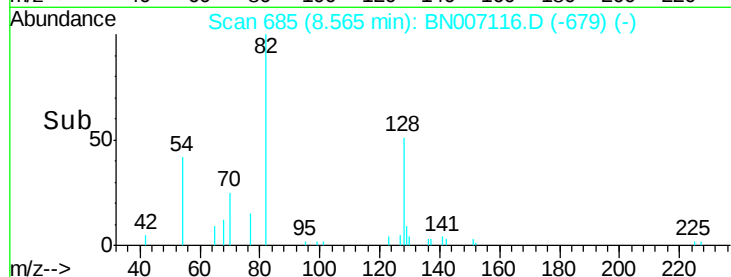
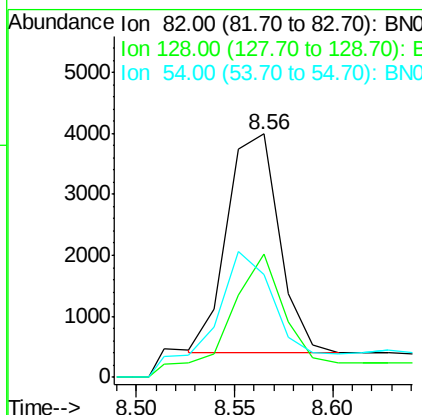
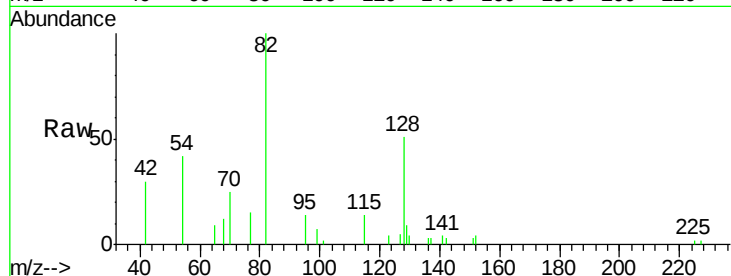
ClientSampleId :

EXT-006-SW127-073119

Tot Ion:	82	Resp:	6657
Ion	Ratio	Lower	Upper
82	100		
128	50.6	34.6	51.8
54	42.5	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#8

Naphthalene

Concen: 0.092 ng

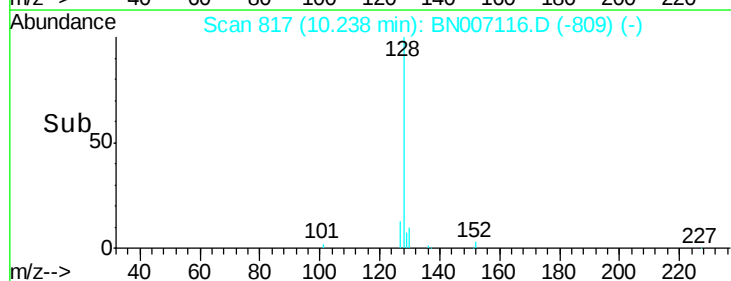
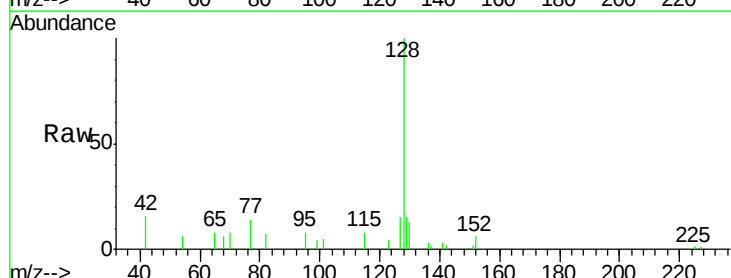
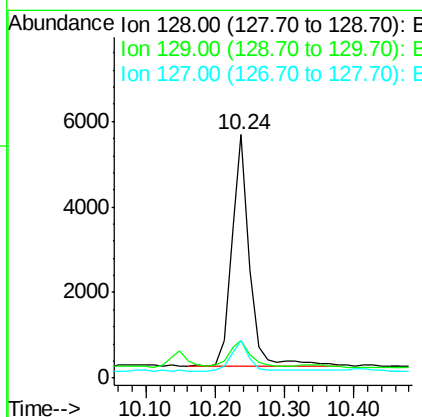
RT: 10.24 min Scan# 817

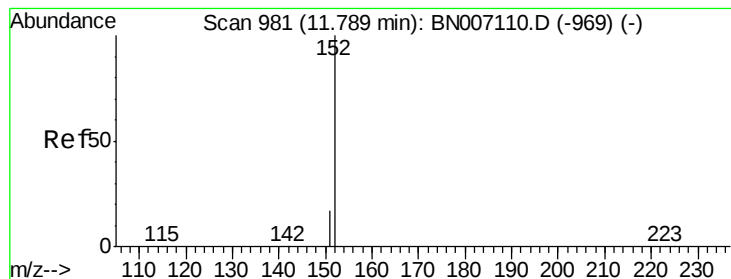
Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:	128	Resp:	9755
Ion	Ratio	Lower	Upper
128	100		
129	15.3	9.4	14.2#
127	15.4	11.0	16.6





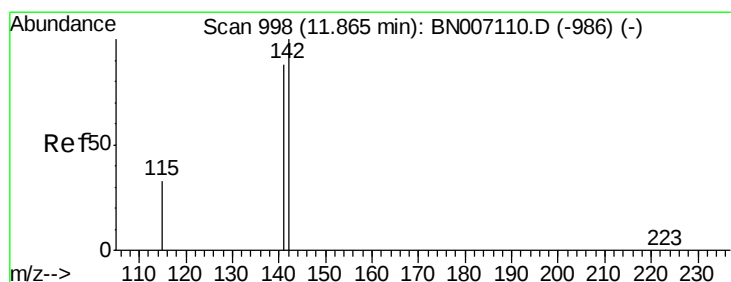
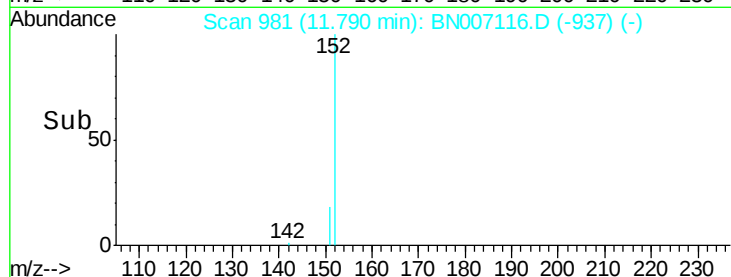
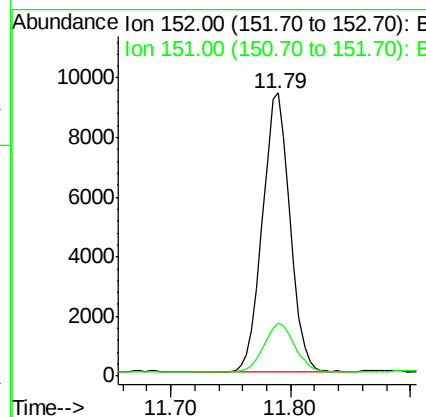
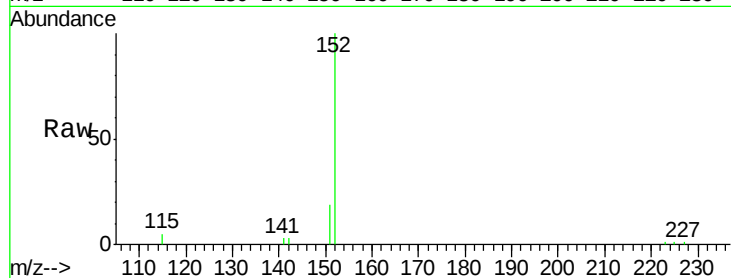
#10
2-Methylnaphthalene-d10
Concen: 0.211 ng
RT: 11.79 min Scan# 981
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.5	23.3

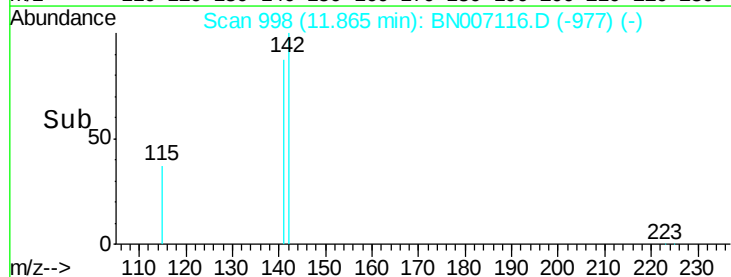
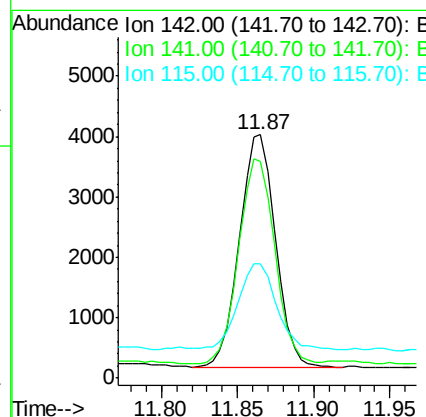
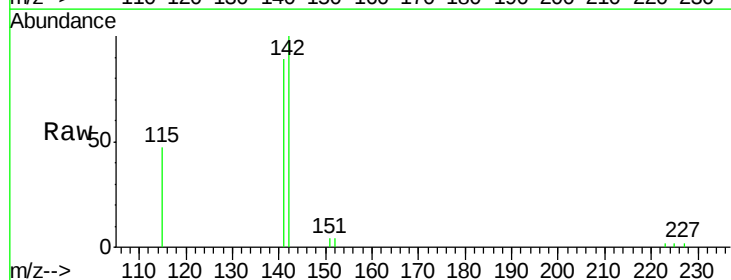
Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#11
2-Methylnaphthalene
Concen: 0.083 ng
RT: 11.87 min Scan# 998
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.9	69.0	103.6
115	46.9	27.1	40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

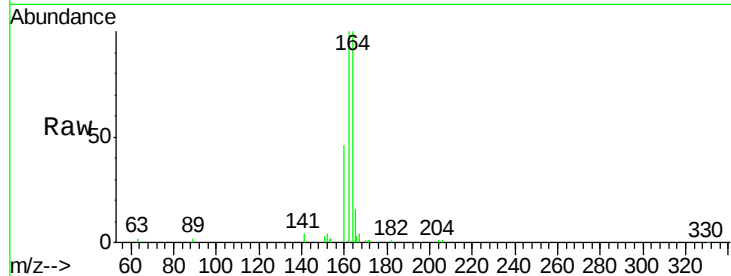
ClientSampleId :

EXT-006-SW127-073119

Tot Ion:	164	Resp:	23234
Ion Ratio	Lower	Upper	
164	100		
162	99.6	82.2	123.4
160	45.6	38.3	57.5

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM

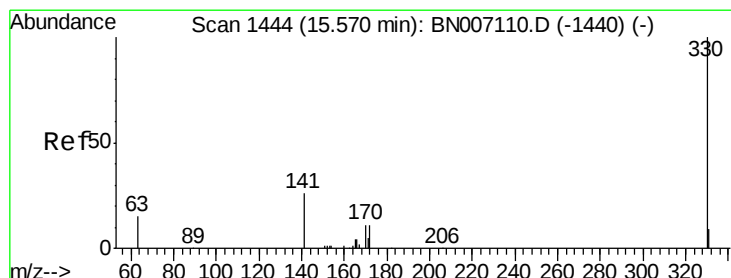
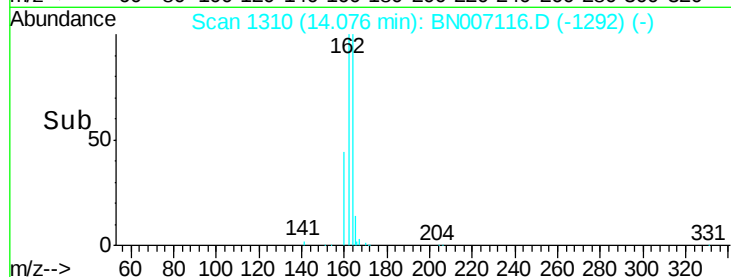
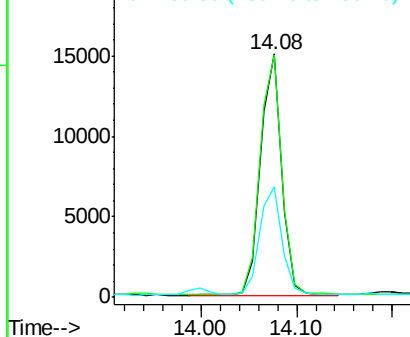


Abundance

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



#13

2,4,6-Tribromophenol

Concen: 0.214 ng

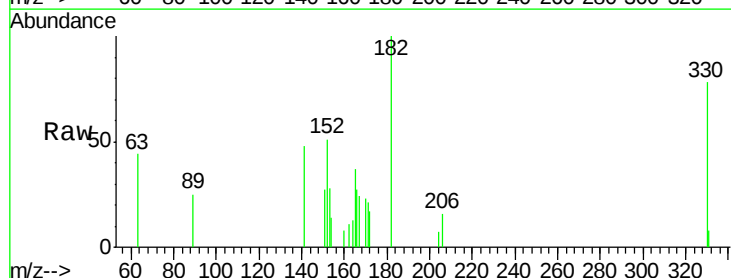
RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:	330	Resp:	2680
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	70.0	33.6	50.4#

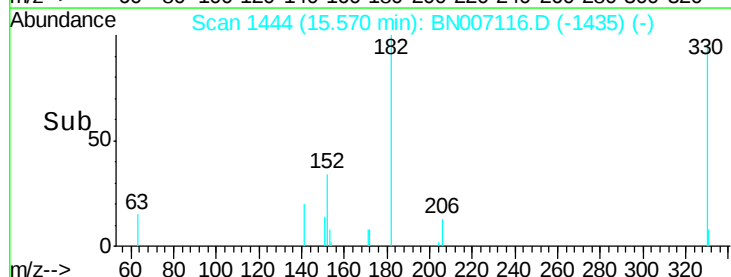
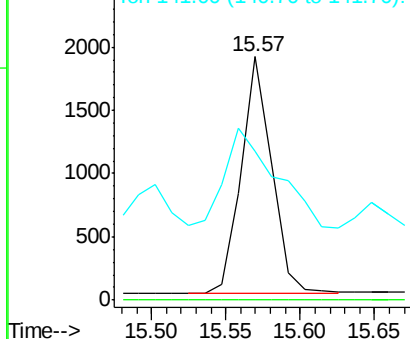


Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





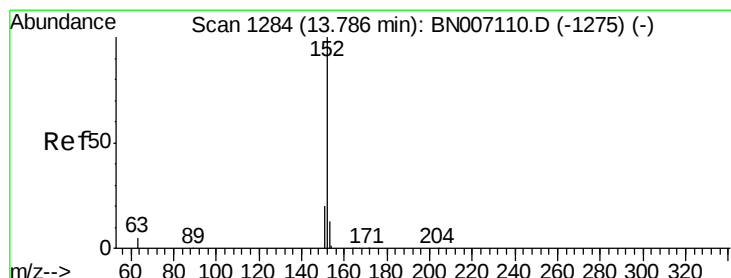
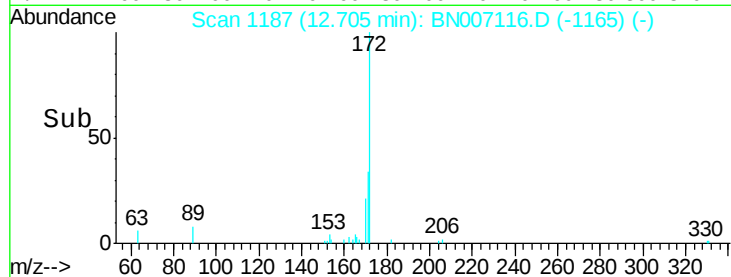
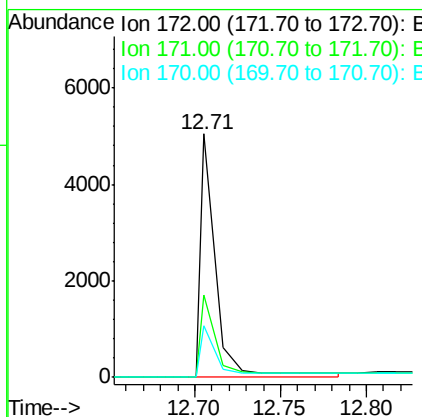
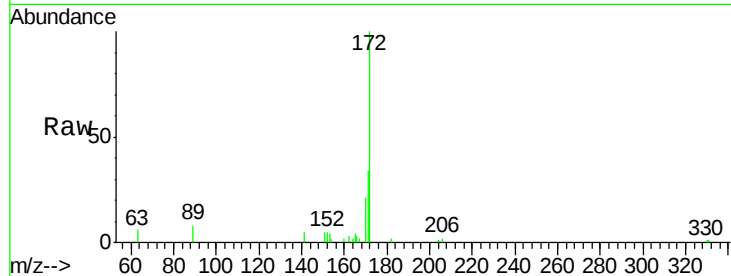
#14
2-Fluorobiphenyl
Concen: 0.108 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.6	26.3	39.5
170	21.0	17.0	25.4

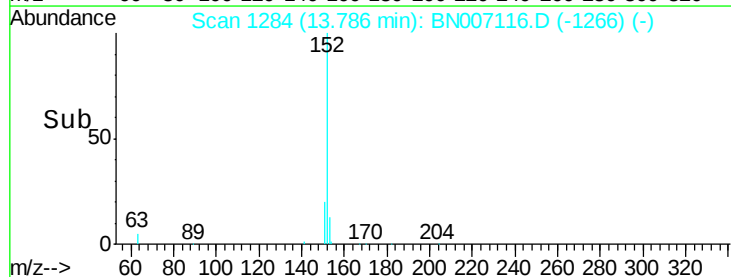
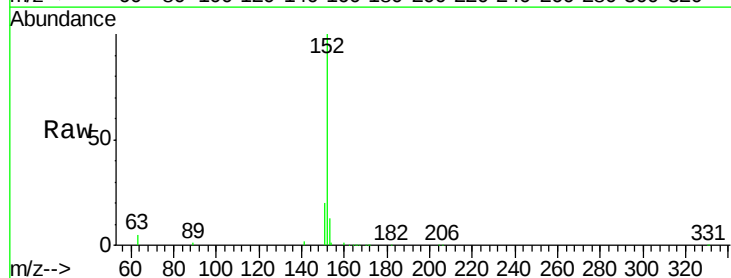
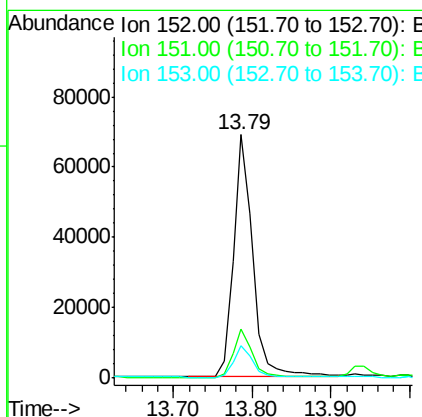
Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#15
Acenaphthylene
Concen: 0.982 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.6
153	13.4	10.4	15.6





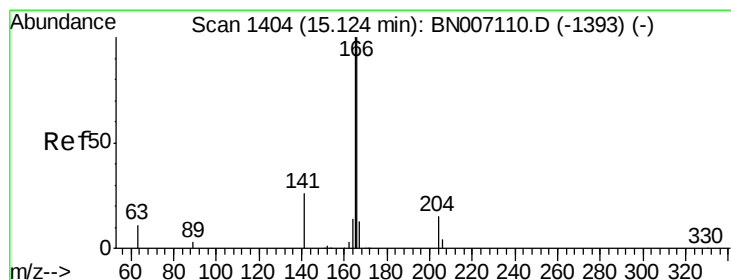
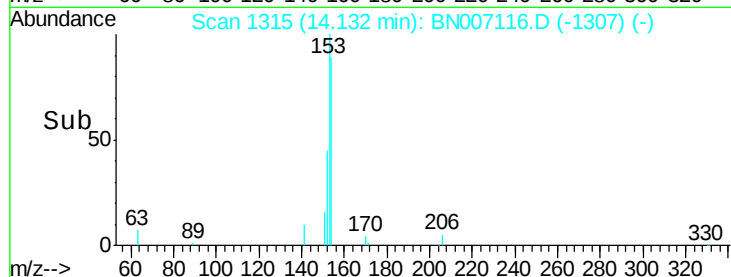
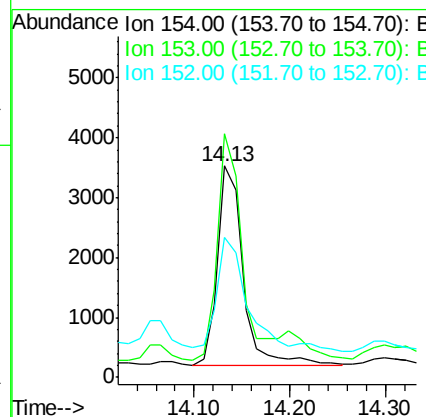
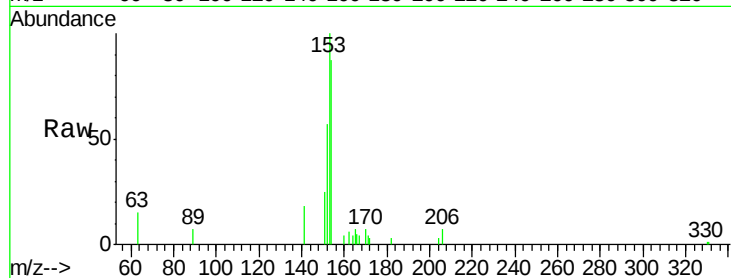
#16
Acenaphthene
Concen: 0.079 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Tot Ion	Ratio	Lower	Upper
154	100		
153	106.5	89.5	134.3
152	59.6	44.8	67.2

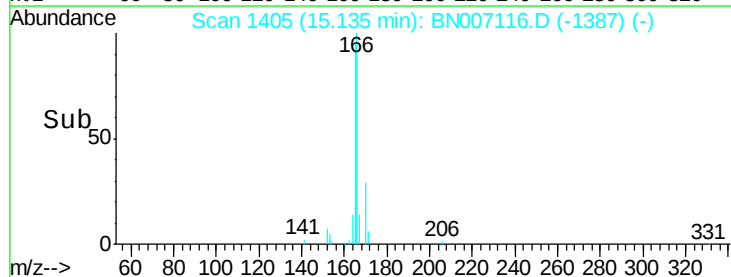
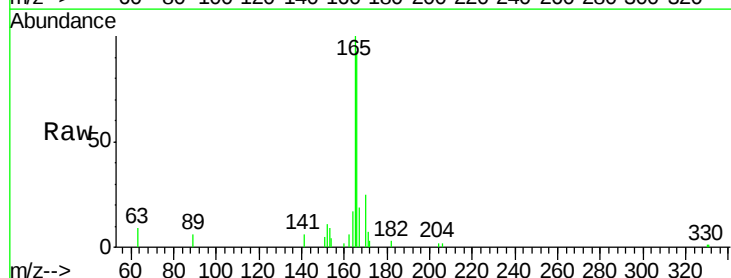
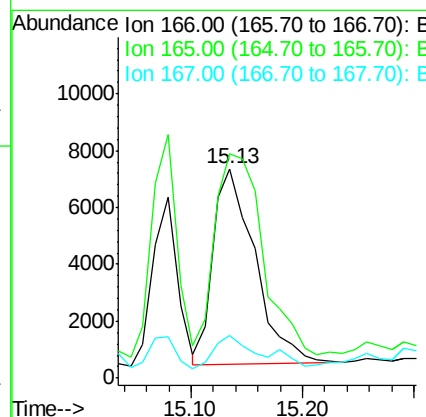
Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#17
Fluorene
Concen: 0.154 ng
RT: 15.13 min Scan# 1405
Delta R.T. -0.00 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	118.6	77.9	116.9#
167	19.3	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: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

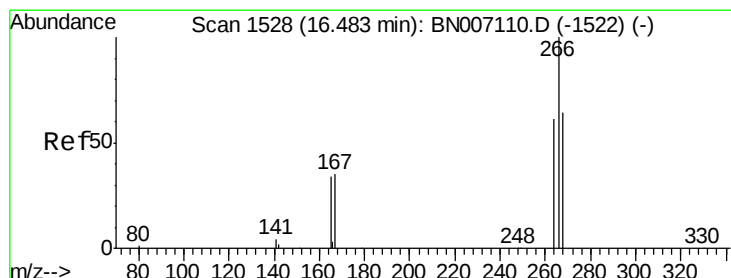
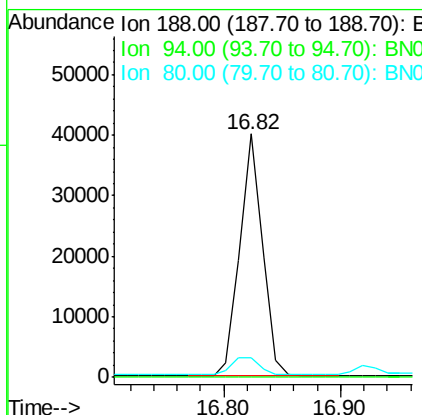
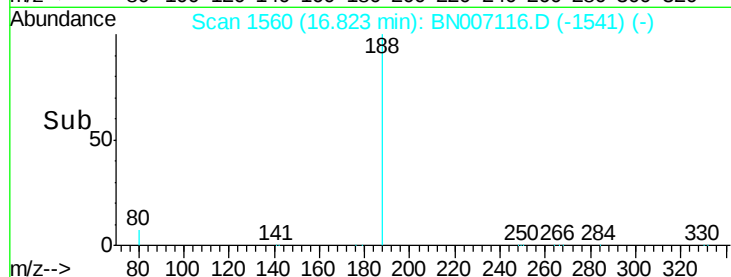
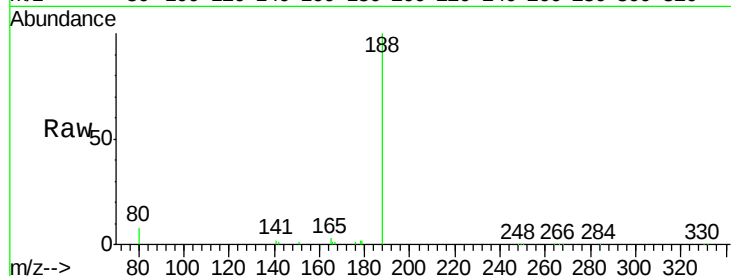
ClientSampleId :

EXT-006-SW127-073119

Tot Ion:	188	Resp:	53452
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.2	7.8	11.6

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#21

Pentachlorophenol

Concen: 0.028 ng

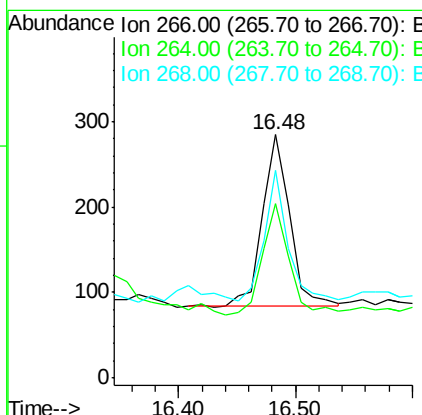
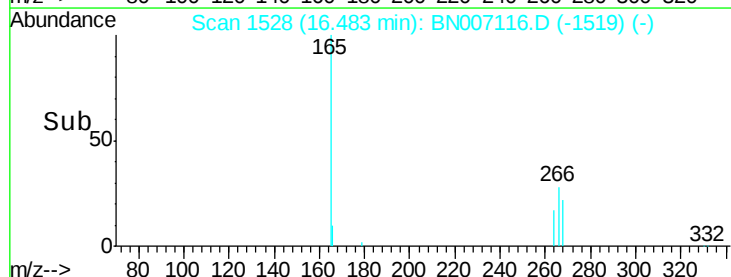
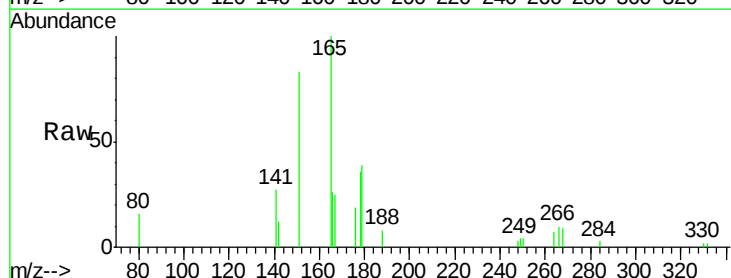
RT: 16.48 min Scan# 1528

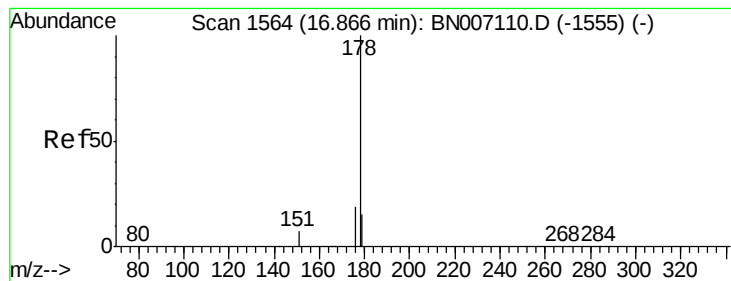
Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:	266	Resp:	326
Ion Ratio	Lower	Upper	
266	100		
264	71.6	52.3	78.5
268	85.3	51.5	77.3#





#22

Phenanthrene

Concen: 1.988 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

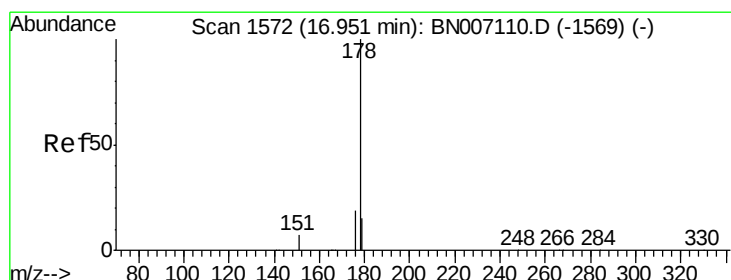
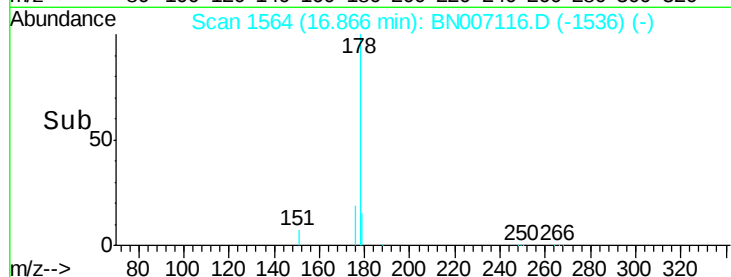
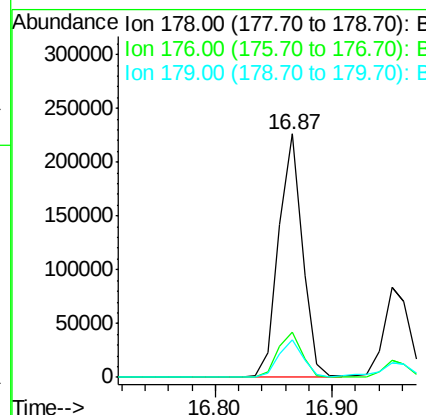
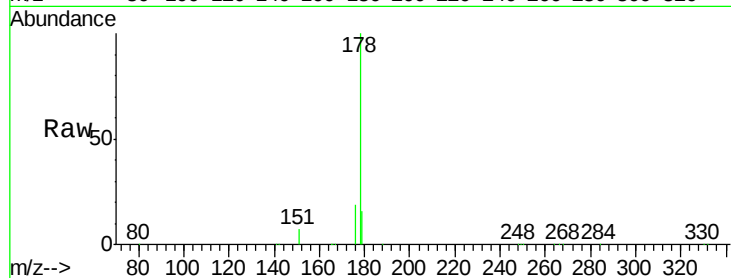
ClientSampleId :

EXT-006-SW127-073119

Tot Ion:	178	Resp:	318527
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.2	22.8
179	15.6	12.3	18.5

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#23

Anthracene

Concen: 0.858 ng

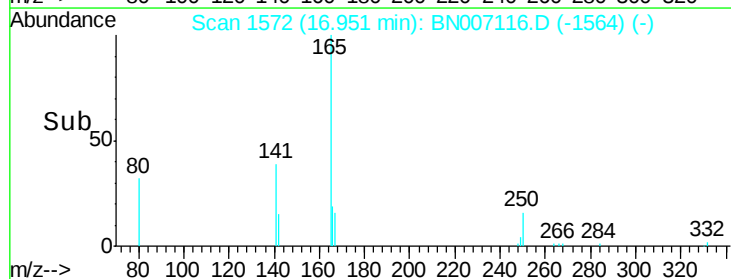
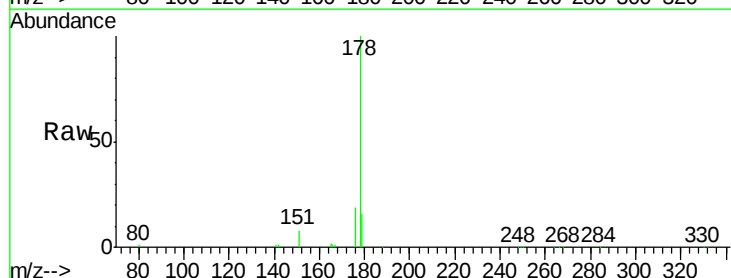
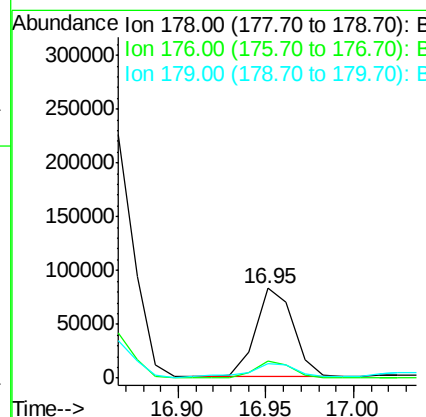
RT: 16.95 min Scan# 1572

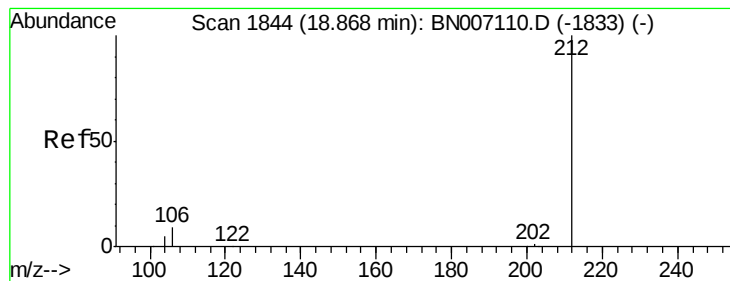
Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:	178	Resp:	125559
Ion Ratio	Lower	Upper	
178	100		
176	18.3	14.6	21.8
179	18.3	12.5	18.7





#24

Fluoranthene-d10

Concen: 0.207 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

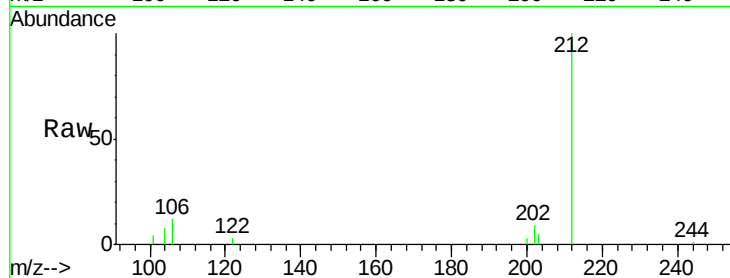
ClientSampleId :

EXT-006-SW127-073119

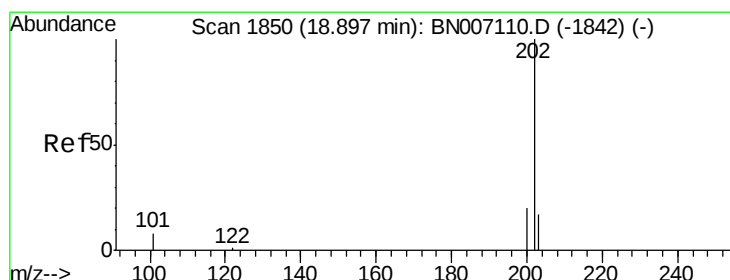
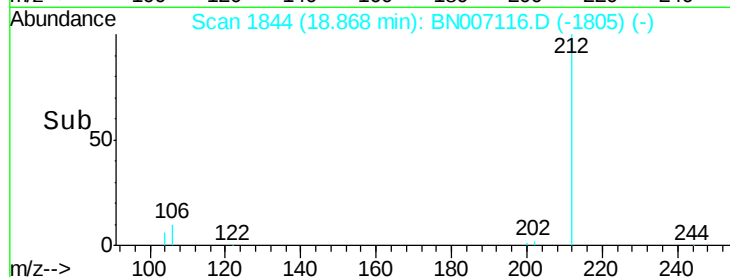
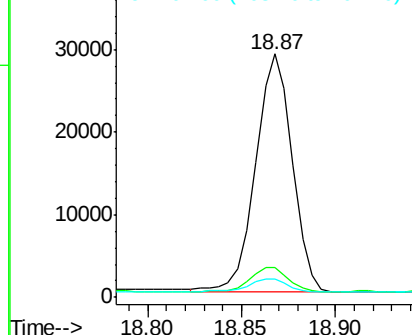
Tot Ion	Ratio	Resp	Lower	Upper
212	100	39194		
106	10.8	8.2	12.2	
104	6.7	4.5	6.7	

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#25

Fluoranthene

Concen: 3.985 ng

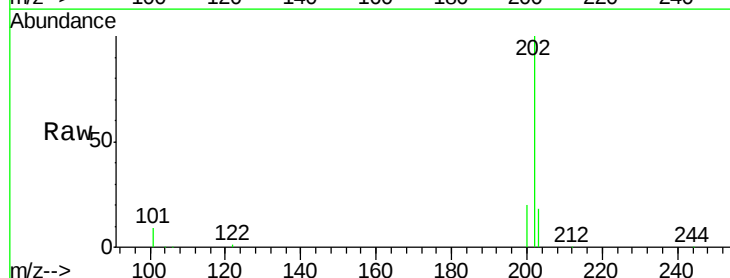
RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

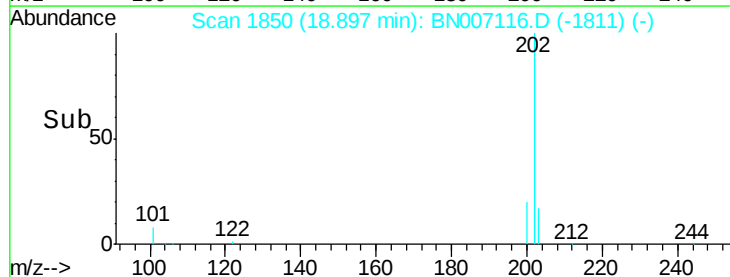
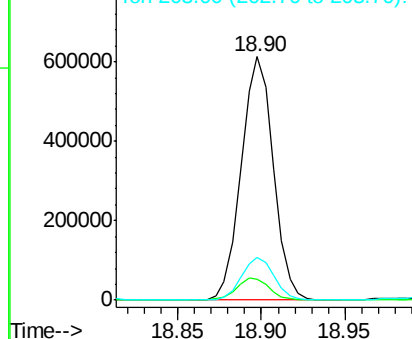
Lab File: BN007116.D

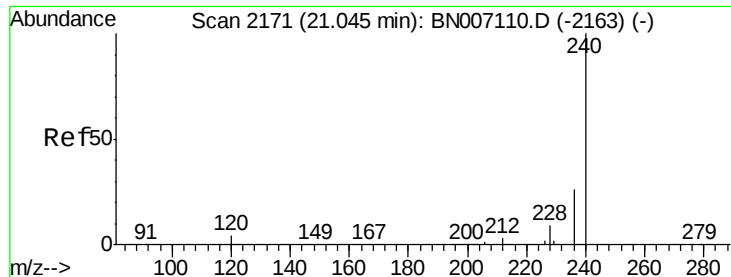
Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	816655		
101	8.9	7.0	10.4	
203	17.6	13.8	20.8	



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





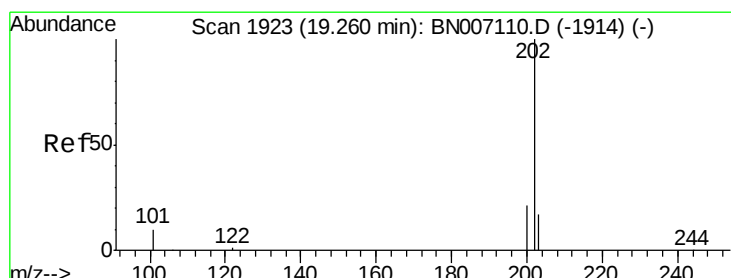
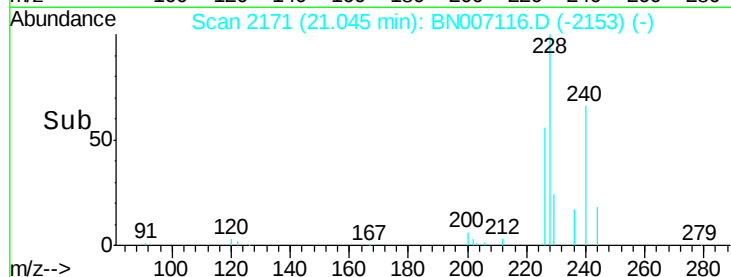
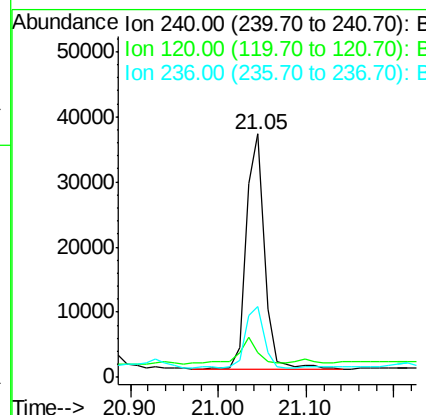
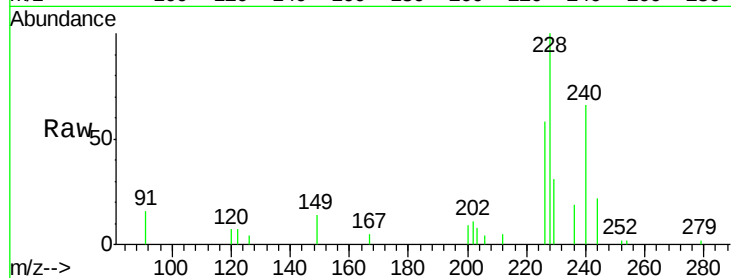
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	10.3	4.0	6.0#		
236	29.3	21.3	31.9		

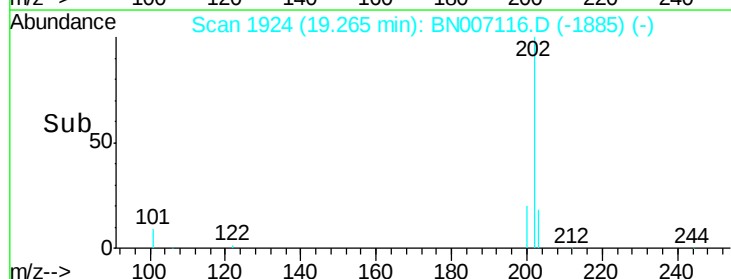
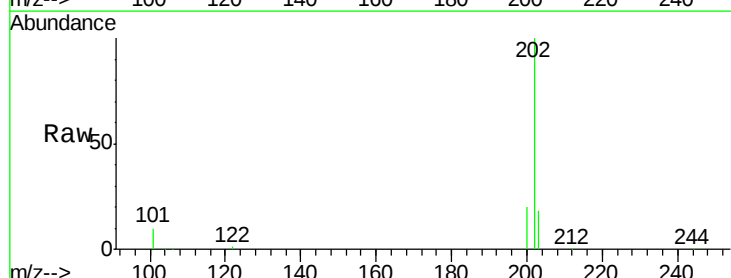
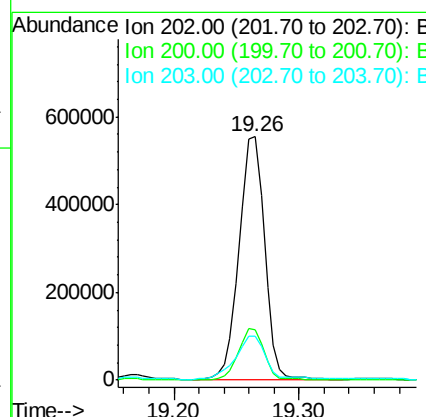
Manual Integrations
APPROVED

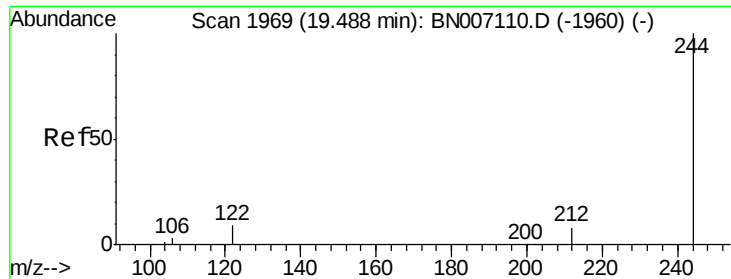
mohammad
8/14/2019 2:52:29 AM



#27
Pyrene
Concen: 4.287 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	21.1	16.6	24.8		
203	21.4	14.0	21.0#		





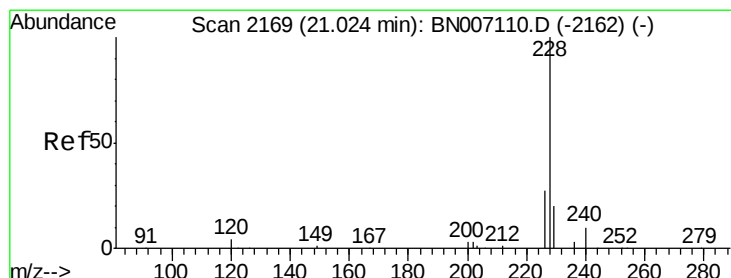
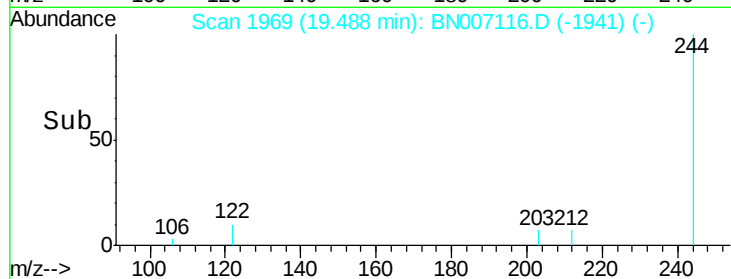
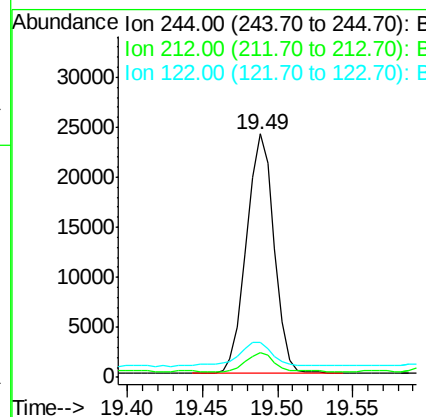
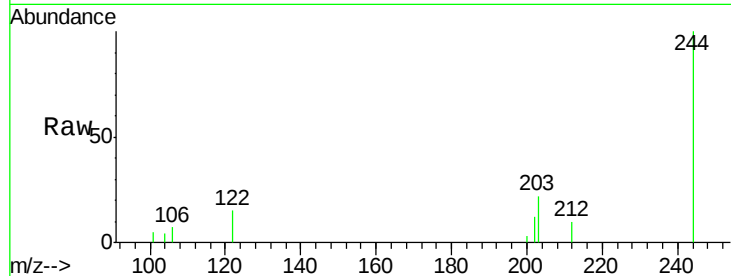
#28
 Terphenyl-d14
 Concen: 0.217 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007116.D
 Acq: 13 Aug 2019 05:42

Instrument :
 BNA_N
 ClientSampleId :
 EXT-006-SW127-073119

Tot Ion	Ratio	Resp	Lower	Upper
244	100	30599		
212	10.3	6.2	9.2#	
122	14.6	7.4	11.2#	

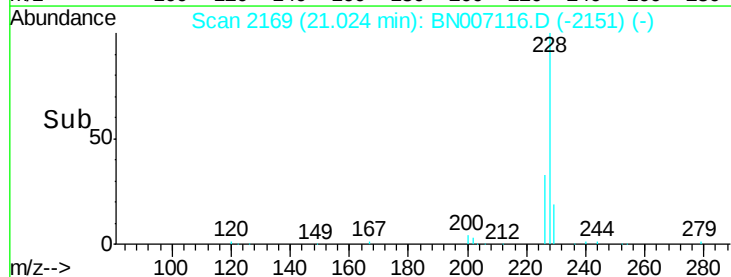
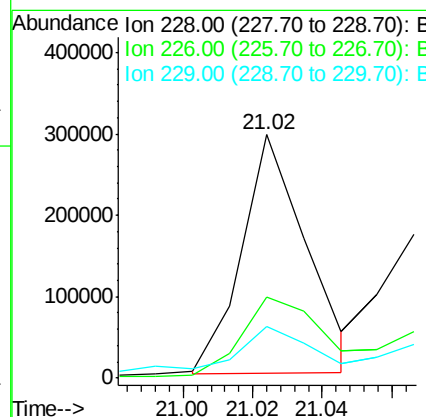
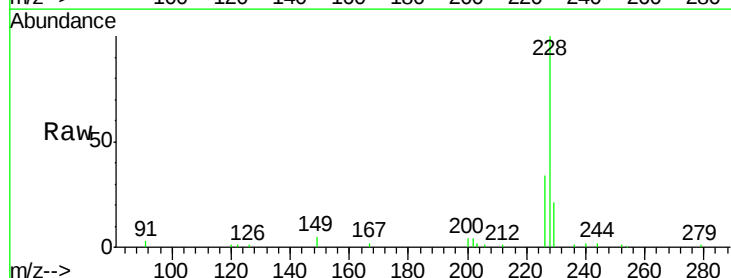
Manual Integrations
 APPROVED

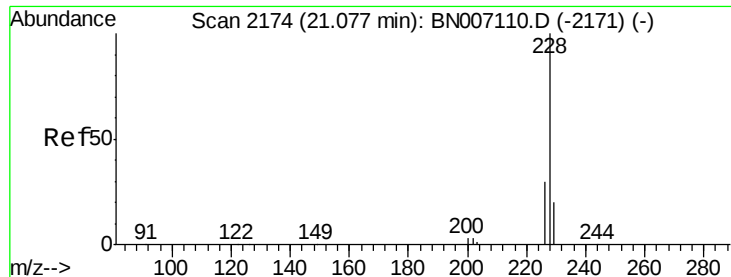
mohammad
 8/14/2019 2:52:29 AM



#29
 Benzo(a)anthracene
 Concen: 1.990 ng m
 RT: 21.02 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: BN007116.D
 Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	376691		
226	33.5	21.8	32.6#	
229	21.3	15.6	23.4	





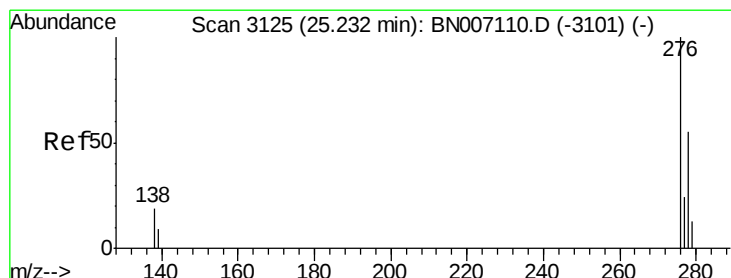
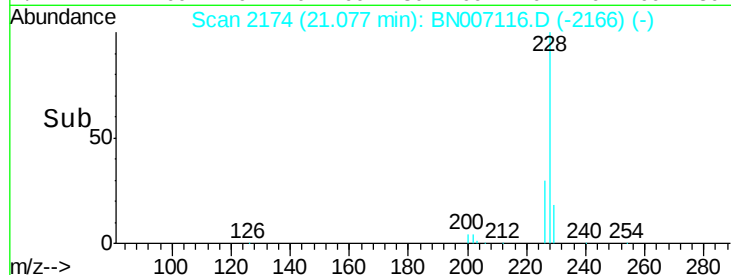
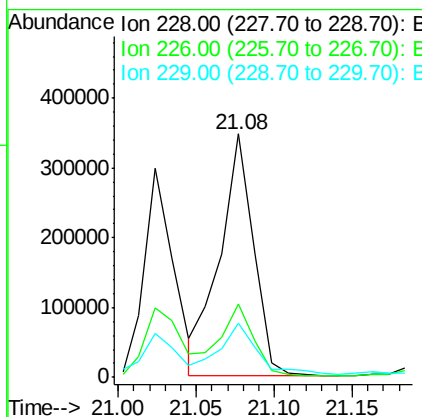
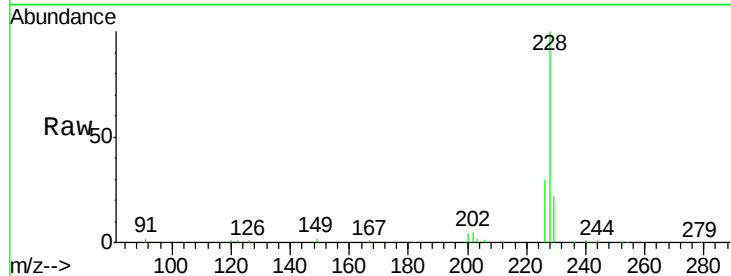
#30
Chrysene
Concen: 2.818 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Instrument :
BNA_N
ClientSampleId :
EXT-006-SW127-073119

Tot Ion:228	Resp:	518347
Ion Ratio	Lower	Upper
228 100		
226 30.3	23.8	35.6
229 22.3	15.7	23.5

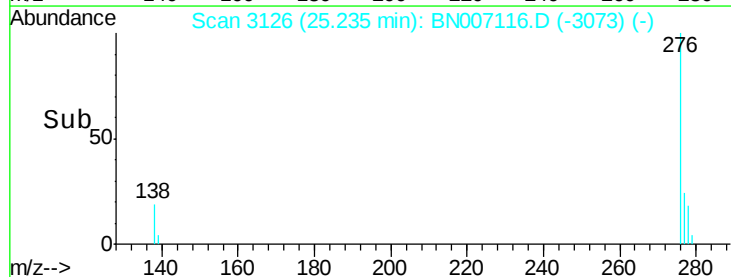
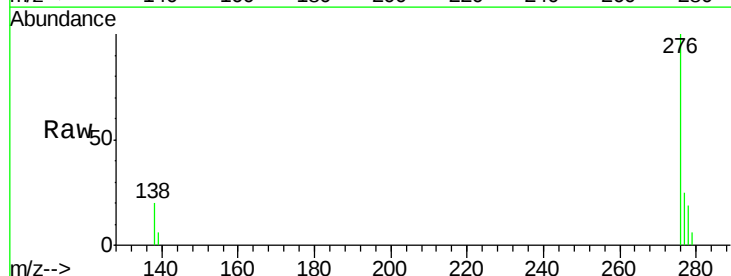
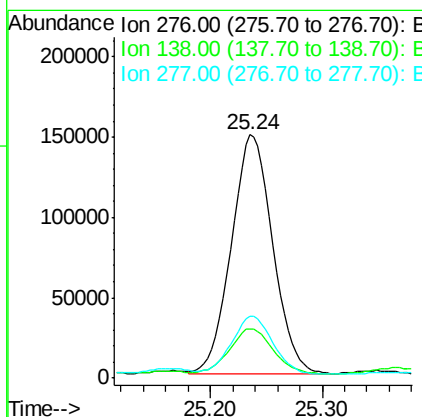
Manual Integrations
APPROVED

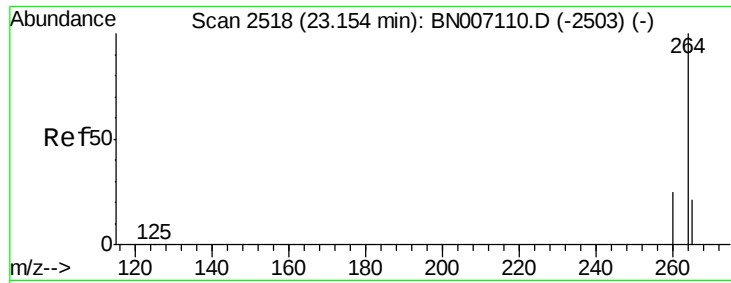
mohammad
8/14/2019 2:52:29 AM



#31
Indeno(1,2,3-cd)pyrene
Concen: 1.871 ng
RT: 25.24 min Scan# 3126
Delta R.T. -0.02 min
Lab File: BN007116.D
Acq: 13 Aug 2019 05:42

Tgt Ion:276	Resp:	379316
Ion Ratio	Lower	Upper
276 100		
138 19.7	16.0	24.0
277 24.6	19.9	29.9





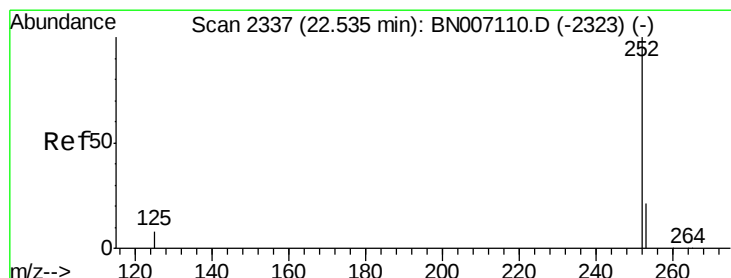
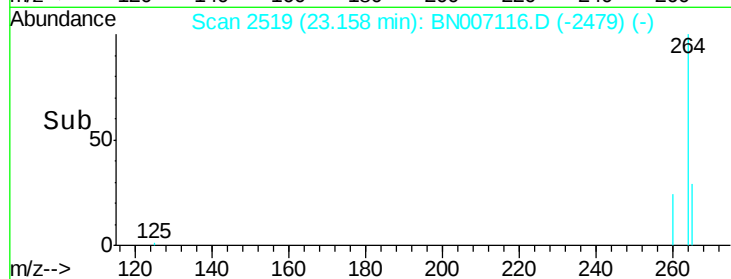
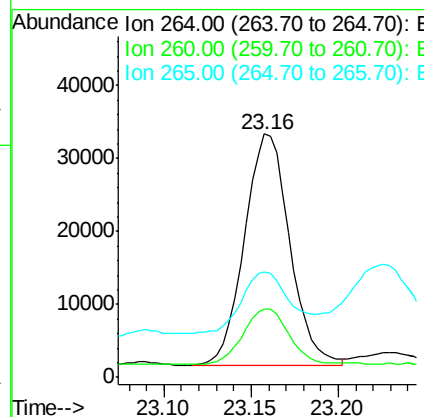
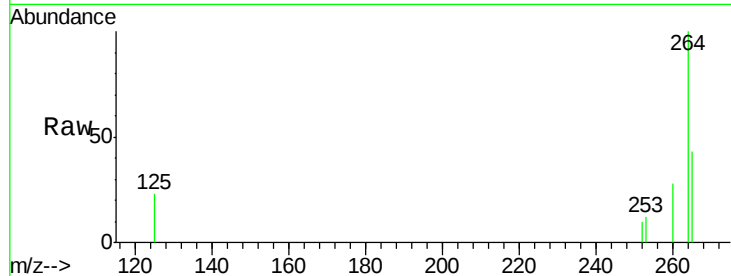
#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007116.D
 Acq: 13 Aug 2019 05:42

Instrument :
 BNA_N
 ClientSampleId :
 EXT-006-SW127-073119

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.3	19.8	29.8
265	43.3	26.2	39.4

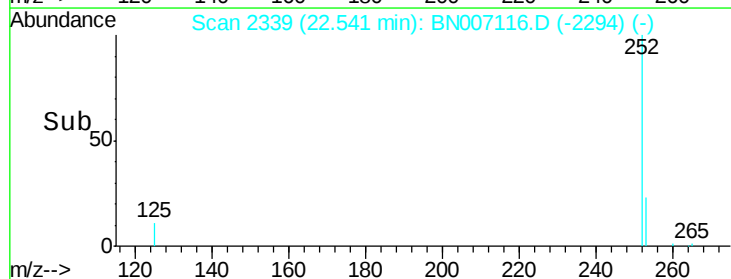
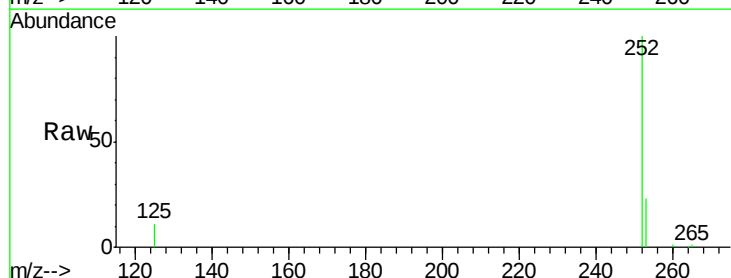
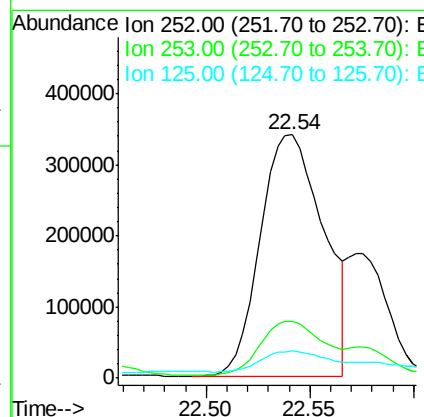
Manual Integrations
 APPROVED

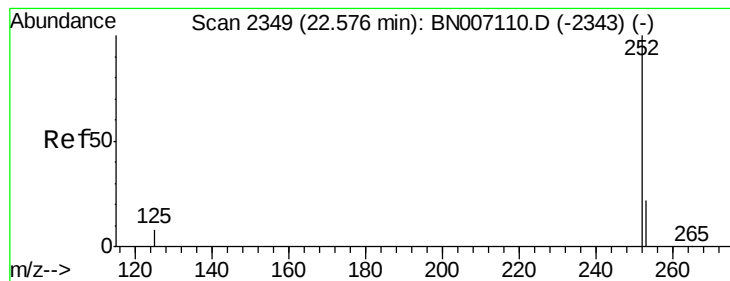
mohammad
 8/14/2019 2:52:29 AM



#33
 Benzo(b)fluoranthene
 Concen: 3.637 ng
 RT: 22.54 min Scan# 2339
 Delta R.T. -0.01 min
 Lab File: BN007116.D
 Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	11.1	7.4	11.0





#34

Benzo(k)fluoranthene

Concen: 1.212 ng/mL

RT: 22.58 min Scan# 2349

Delta R.T. -0.01 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Instrument :

BNA_N

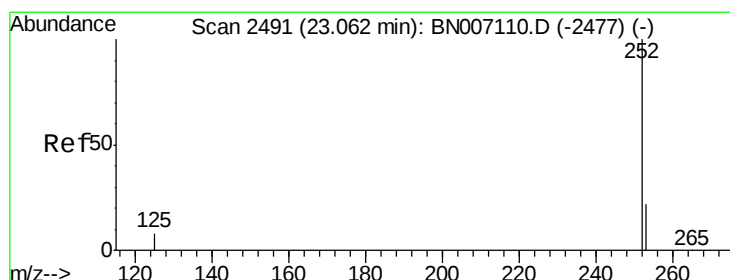
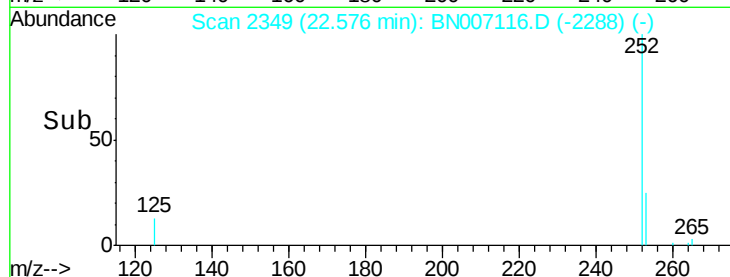
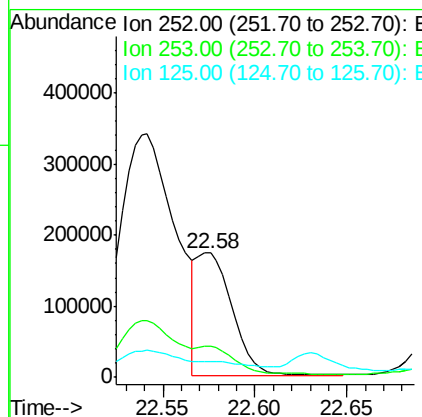
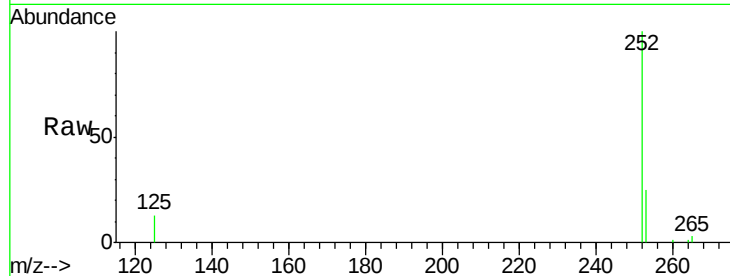
ClientSampleId :

EXT-006-SW127-073119

Tot Ion:	252	Resp:	236523
Ion Ratio	Lower	Upper	
252	100		
253	24.8	18.1	27.1
125	13.0	7.4	11.0

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:29 AM



#35

Benzo(a)pyrene

Concen: 2.403 ng/mL

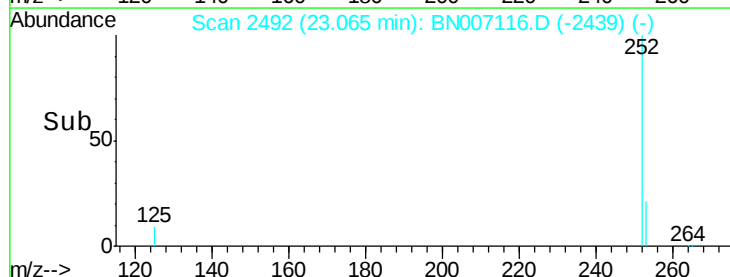
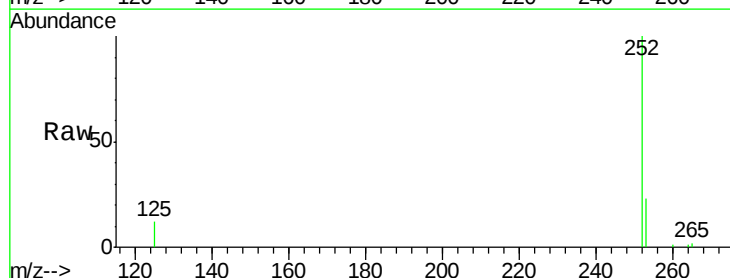
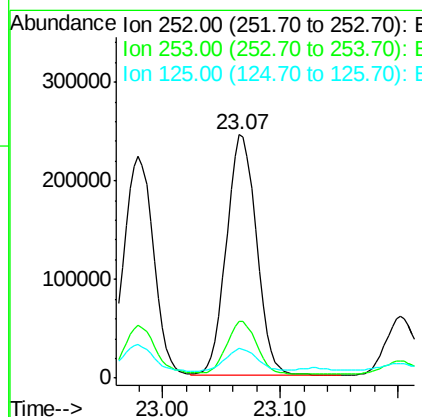
RT: 23.07 min Scan# 2492

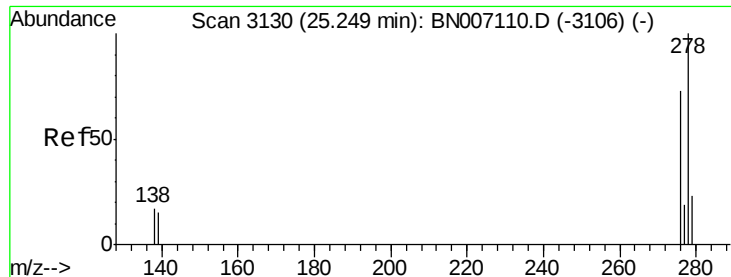
Delta R.T. -0.02 min

Lab File: BN007116.D

Acq: 13 Aug 2019 05:42

Tgt Ion:	252	Resp:	430614
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.5	27.7
125	12.1	8.2	12.4





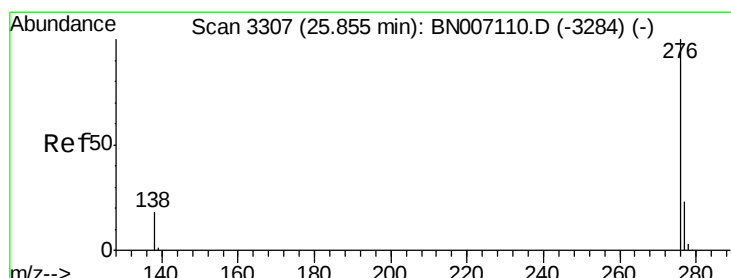
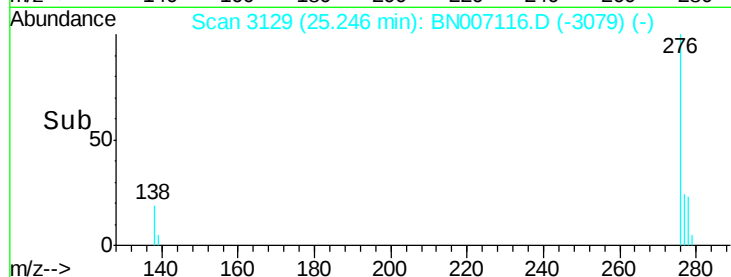
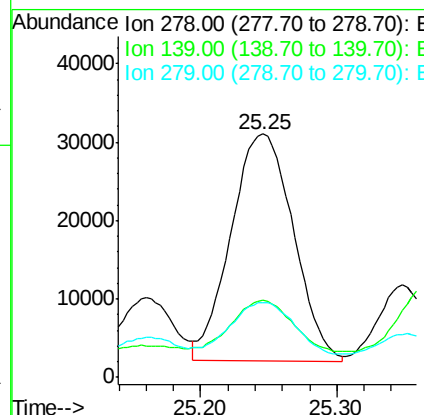
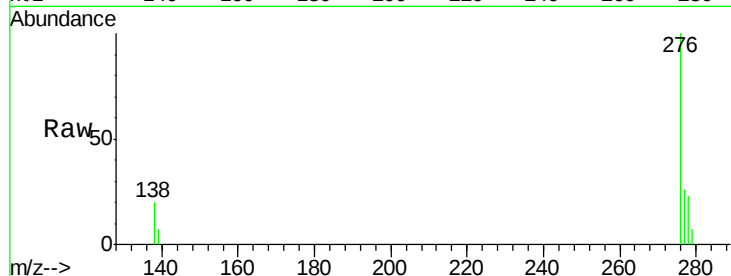
#36
 Dibenzo(a,h)anthracene
 Concen: 0.515 ng
 RT: 25.25 min Scan# 3129
 Delta R.T. -0.03 min
 Lab File: BN007116.D
 Acq: 13 Aug 2019 05:42

Instrument :
 BNA_N
 ClientSampleId :
 EXT-006-SW127-073119

Tot Ion	Ratio	Lower	Upper
278	100		
139	31.6	11.3	16.9#
279	30.6	19.3	28.9#

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:52:29 AM



#37
 Benzo(g,h,i)perylene
 Concen: 2.279 ng
 RT: 25.87 min Scan# 3311
 Delta R.T. -0.01 min
 Lab File: BN007116.D
 Acq: 13 Aug 2019 05:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.8	29.8
138	19.9	14.6	22.0

