

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007241.D
 Acq On : 17 Aug 2019 03:16
 Operator : HP/JU
 Sample : K4239-19
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW091-080519-1

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:02 AM

Quant Time: Aug 19 15:40:50 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Aug 13 12:12:02 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	7380	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	28451	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	19828	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	37333	0.40	ng	-0.01
26) Chrysene-d12	21.05	240	43949	0.40	ng	-0.01
32) Perylene-d12	23.15	264	64983	0.40	ng	-0.02

System Monitoring Compounds

3) 2-Fluorophenol	5.05	112	5468	0.31	ng	0.00
4) Phenol-d6	6.61	99	7377	0.34	ng	0.00
7) Nitrobenzene-d5	8.55	82	7514	0.33	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	12092	0.23	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	2297	0.22	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	784	0.03	ng	0.00
24) Fluoranthene-d10	18.87	212	27964m	0.21	ng	0.00
28) Terphenyl-d14	19.48	244	28348	0.24	ng	-0.02

Target Compounds

						Qvalue
8) Naphthalene	10.22	128	108063	1.355	ng	99
11) 2-Methylnaphthalene	11.85	142	124779	2.208	ng	97
15) Acenaphthylene	13.78	152	658887	6.358	ng	98
16) Acenaphthene	14.13	154	139294	2.098	ng	92
17) Fluorene	15.12	166	285457	2.874	ng	# 87
22) Phenanthrene	16.87	178	6450064	57.650	ng	98
23) Anthracene	16.95	178	1094629	10.708	ng	98
25) Fluoranthene	18.90	202	6799312	47.507	ng	97
27) Pyrene	19.26	202	10135679	65.763	ng	# 92
29) Benzo(a)anthracene	21.02	228	4673873	29.080	ng	92
30) Chrysene	21.08	228	5570551	35.673	ng	96
31) Indeno(1,2,3-cd)pyrene	25.24	276	2449767	14.234	ng	98
33) Benzo(b)fluoranthene	22.54	252	5029300m	22.570	ng	
34) Benzo(k)fluoranthene	22.57	252	1470217m	6.681	ng	
35) Benzo(a)pyrene	23.07	252	4069709	20.145	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	777754	3.859	ng	93
37) Benzo(a,h,i)perylene	25.88	276	2873576	13.860	ng	100

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

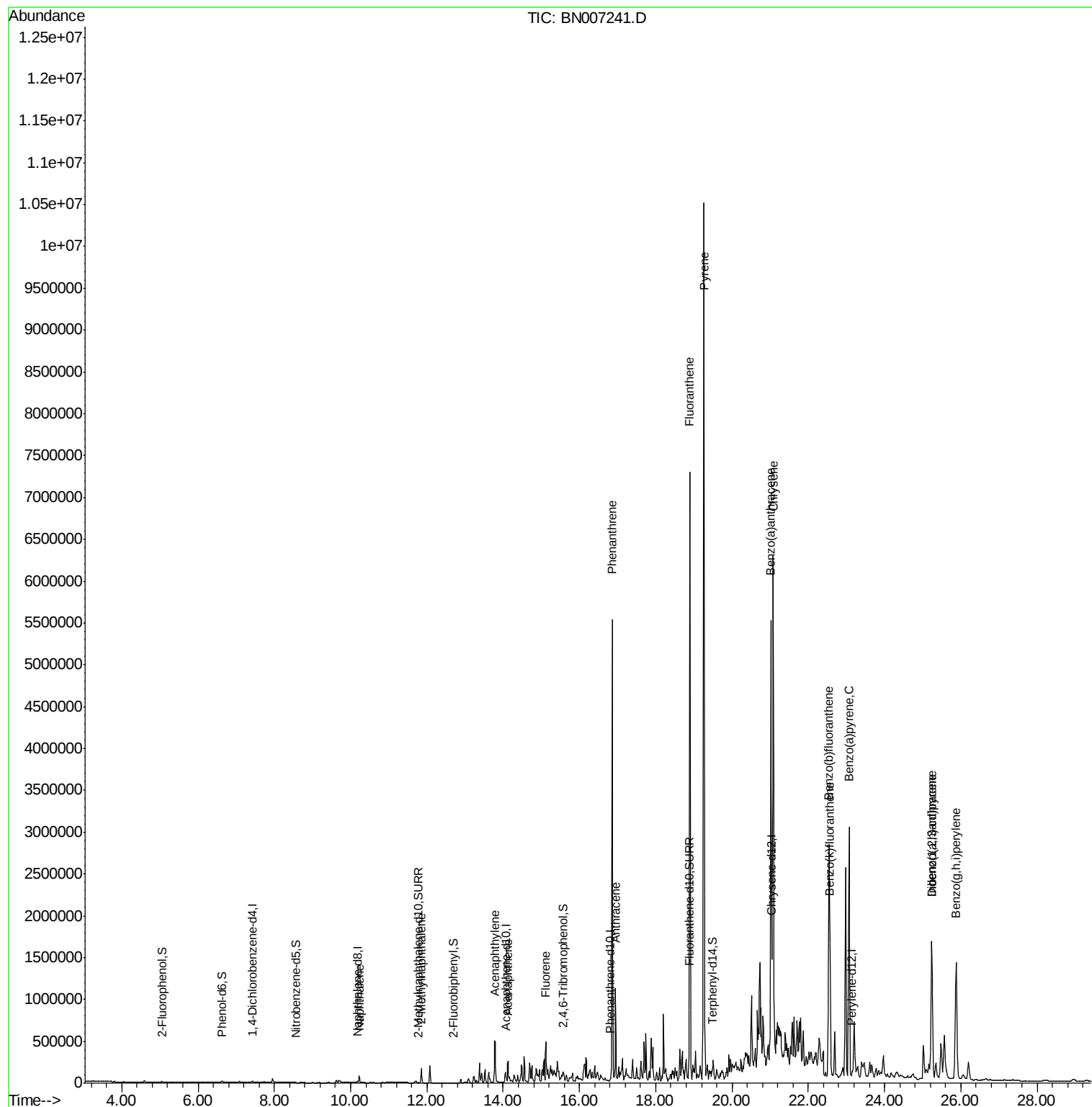
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007241.D
Acq On : 17 Aug 2019 03:16
Operator : HP/JU
Sample : K4239-19
Misc :
ALS Vial : 22 Sample Multiplier: 1

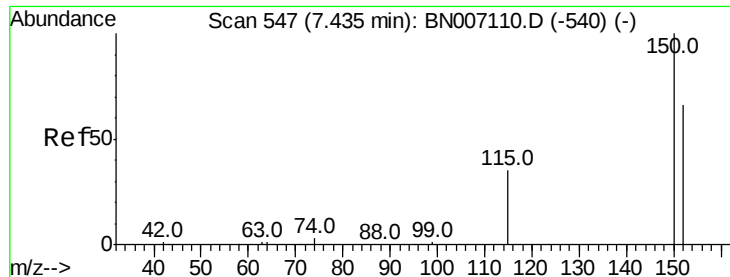
Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM

Quant Time: Aug 19 15:40:50 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
Response via : Initial Calibration





#1

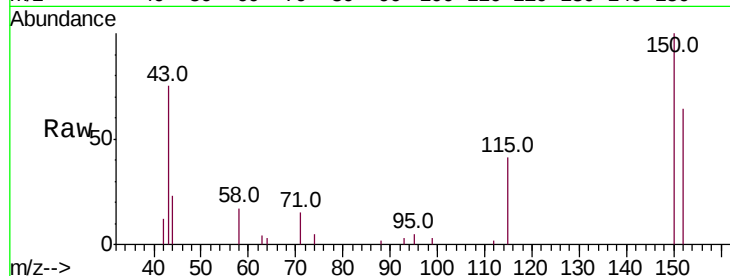
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	121.7	182.5
115	63.5	46.2	69.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM

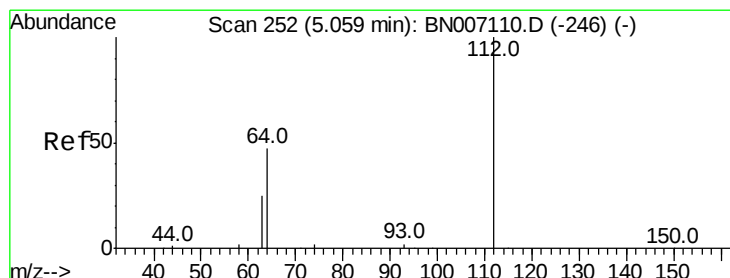
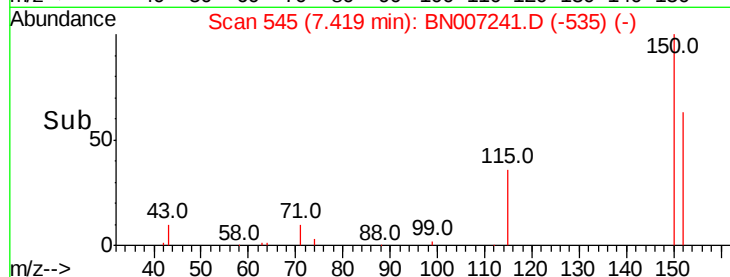
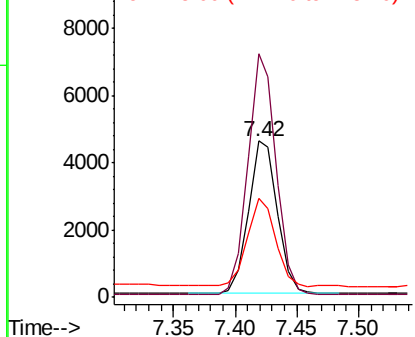


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

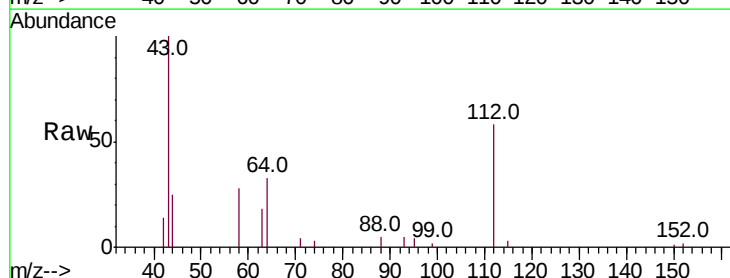
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.308 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.6	42.6	63.8
63	27.4	22.2	33.2

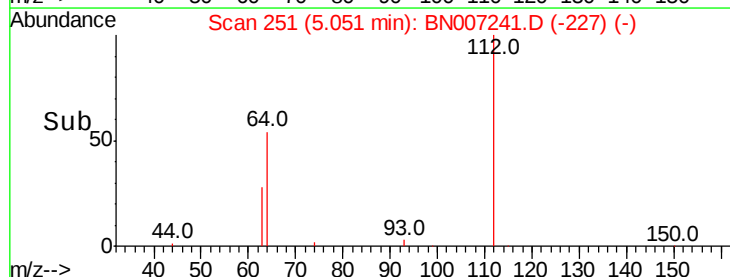
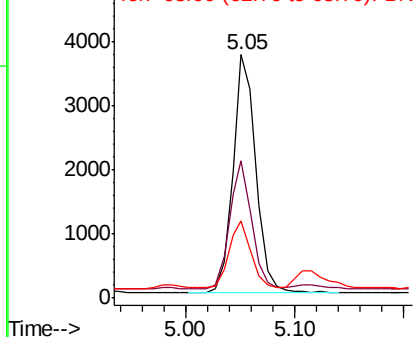


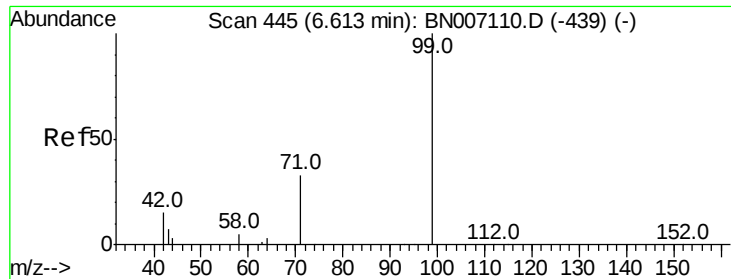
Abundance

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: 0.336 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

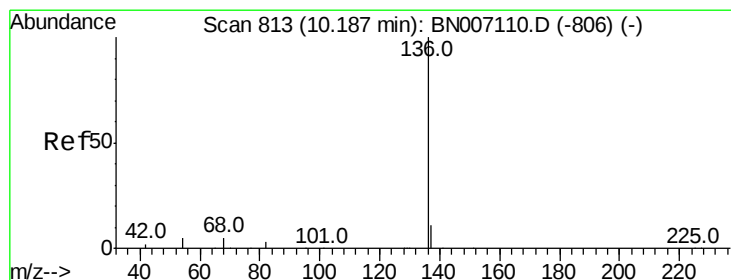
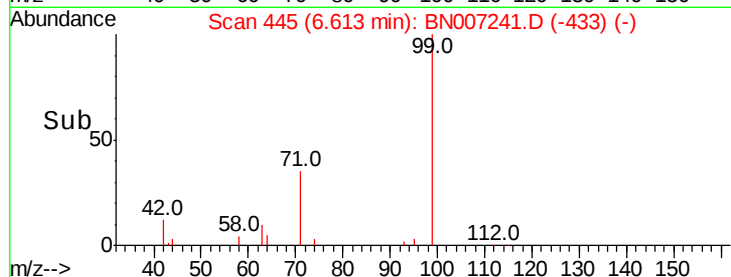
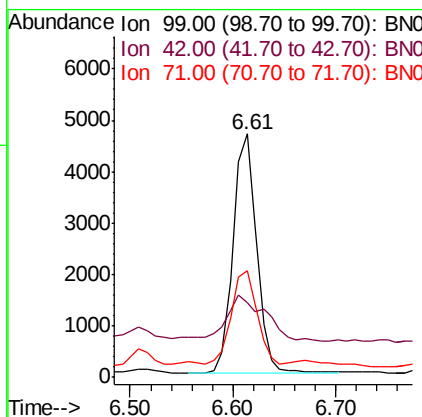
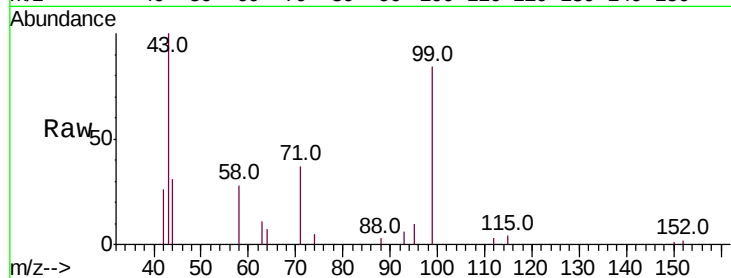
ClientSampleId :

EXT-034-SW091-080519-1

Tot Ion:	99	Resp:	7377
Ion Ratio	Lower	Upper	
99	100		
42	32.2	15.8	23.6#
71	43.7	27.0	40.4#

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



#6

Naphthalene-d8

Concen: 0.400 ng

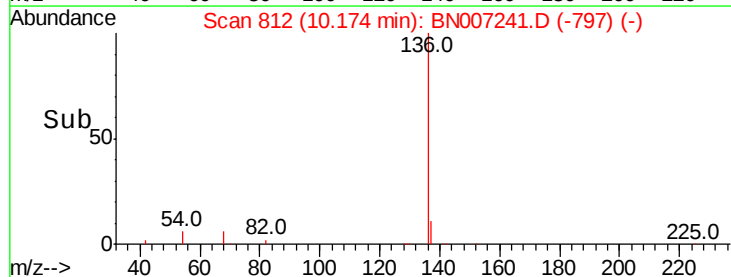
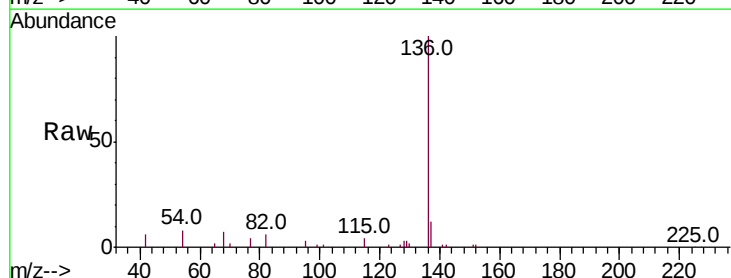
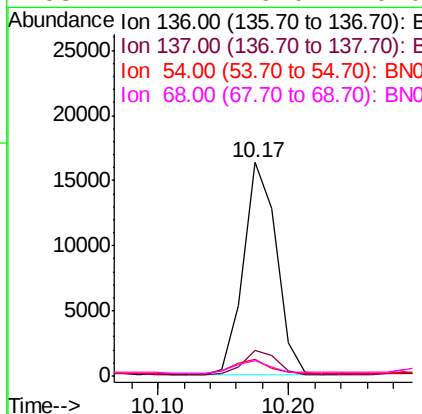
RT: 10.17 min Scan# 812

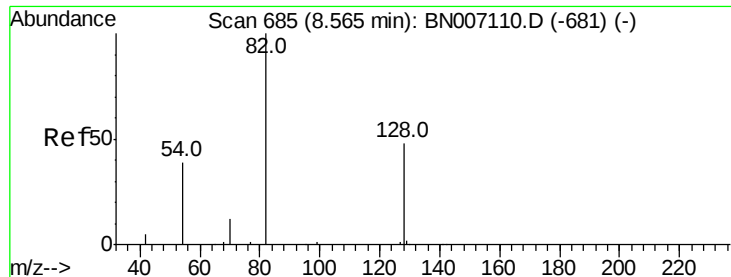
Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	136	Resp:	28451
Ion Ratio	Lower	Upper	
136	100		
137	11.8	9.4	14.0
54	7.8	6.6	9.8
68	7.2	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.328 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

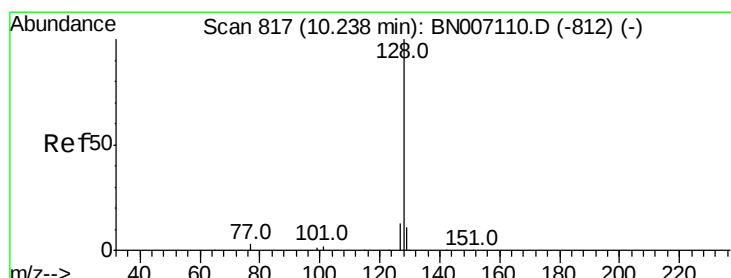
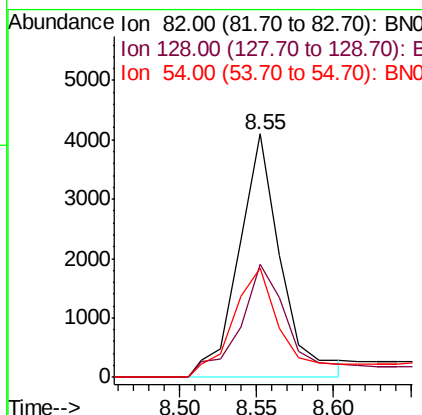
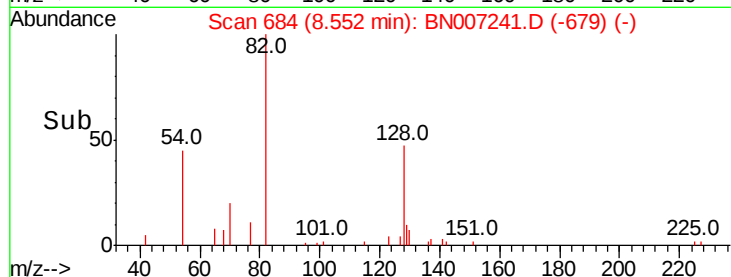
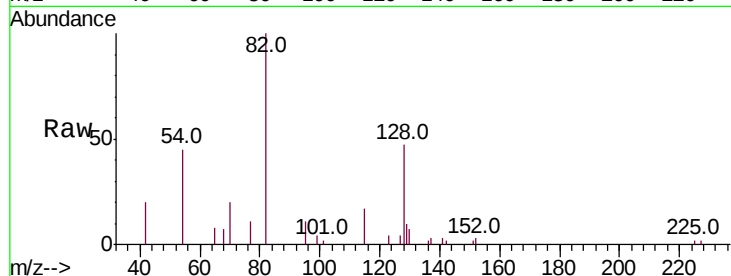
ClientSampleId :

EXT-034-SW091-080519-1

Tot Ion:	82	Resp:	7514
Ion Ratio	Lower	Upper	
82	100		
128	46.7	34.6	51.8
54	44.8	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



#8

Naphthalene

Concen: 1.355 ng

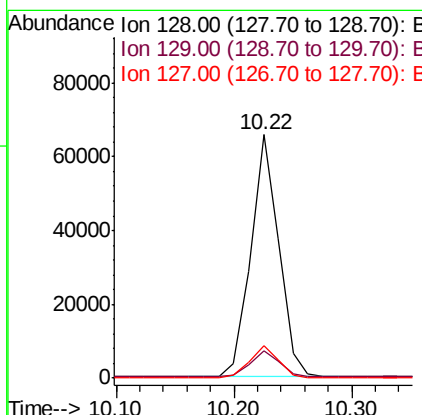
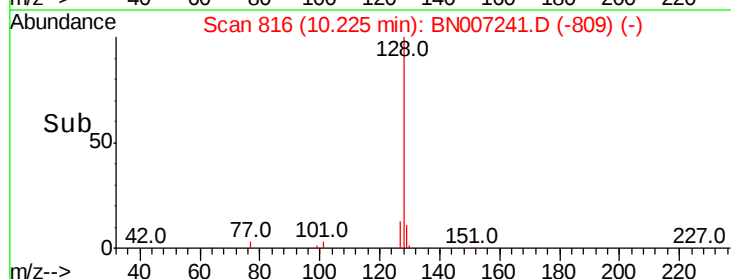
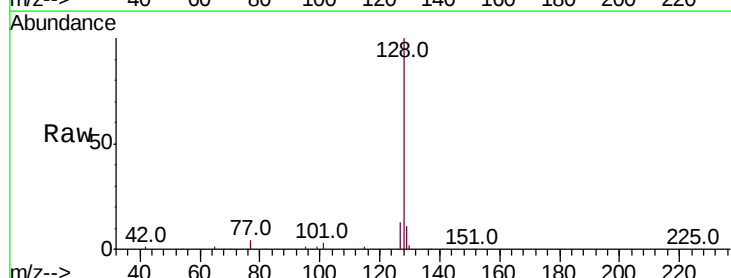
RT: 10.22 min Scan# 816

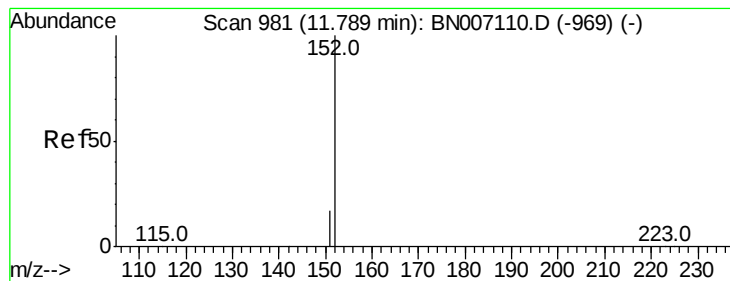
Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	128	Resp:	108063
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.4	14.2
127	13.4	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.228 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519-1

Tot Ion:152 Resp: 12092

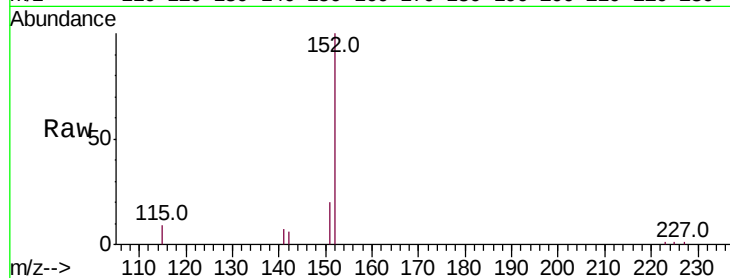
Ion Ratio Lower Upper

152 100

151 20.7 15.5 23.3

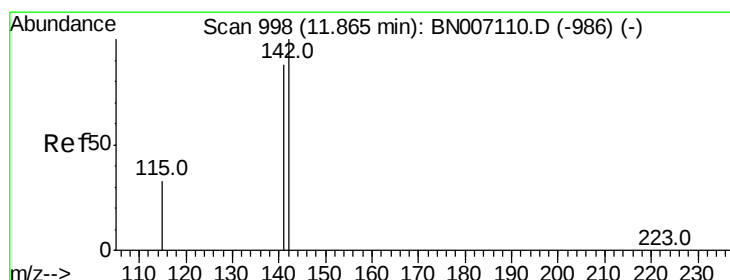
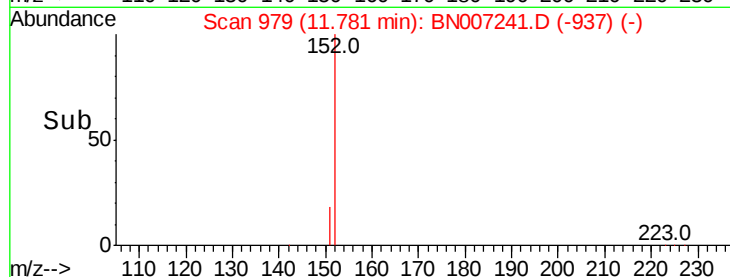
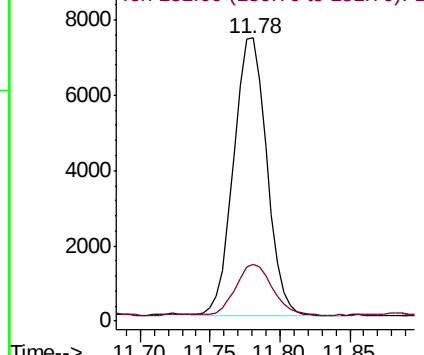
Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 2.208 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

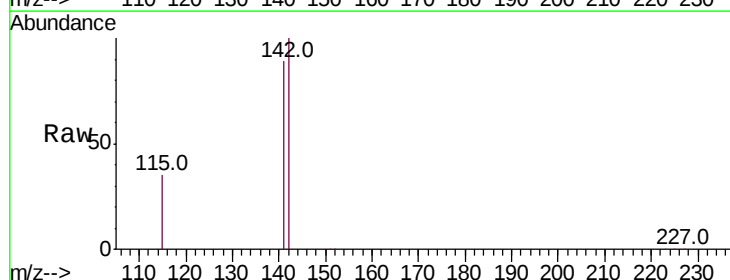
Tgt Ion:142 Resp: 124779

Ion Ratio Lower Upper

142 100

141 88.6 69.0 103.6

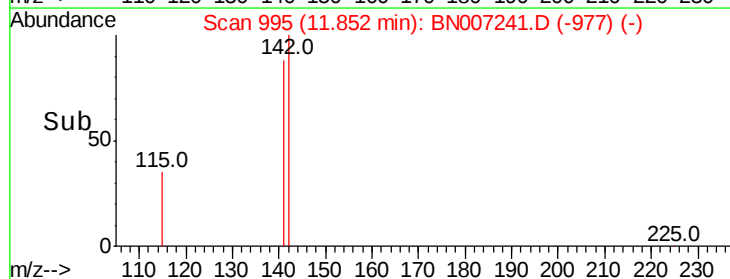
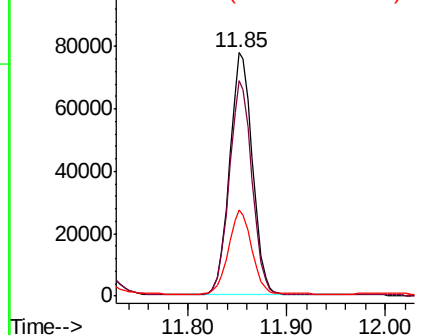
115 35.4 27.1 40.7

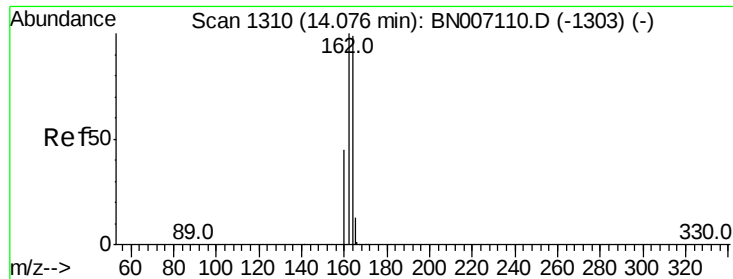


Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

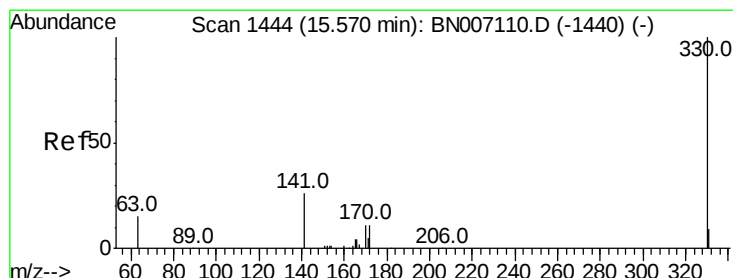
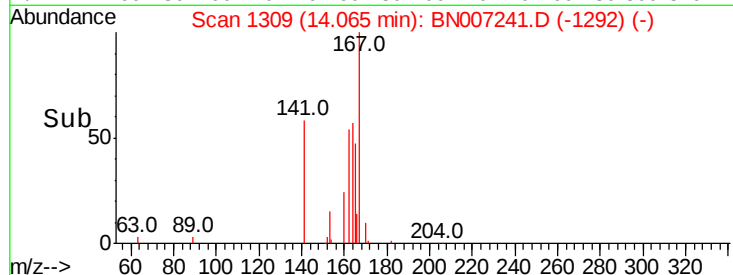
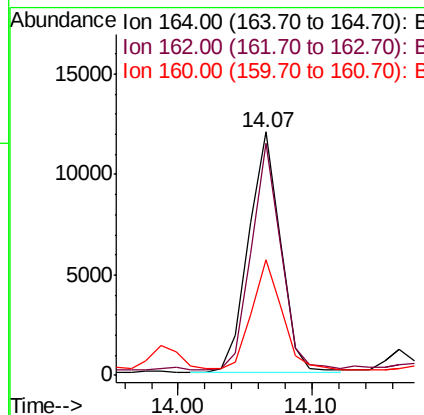
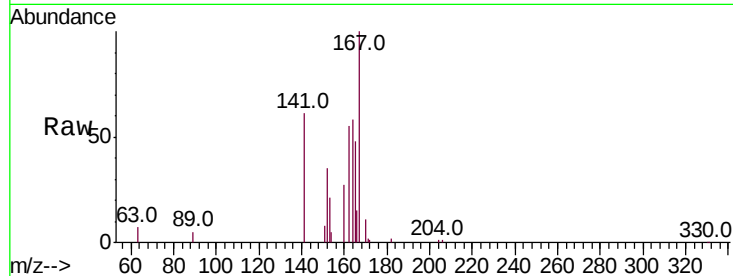
ClientSampleId :

EXT-034-SW091-080519-1

Tot Ion:	164	Resp:	19828
Ion Ratio	Lower	Upper	
164	100		
162	95.4	82.2	123.4
160	47.5	38.3	57.5

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



#13

2,4,6-Tribromophenol

Concen: 0.215 ng

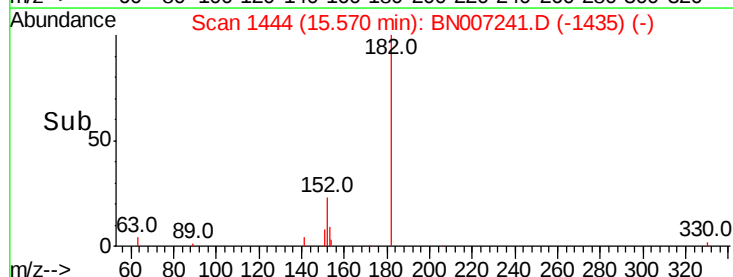
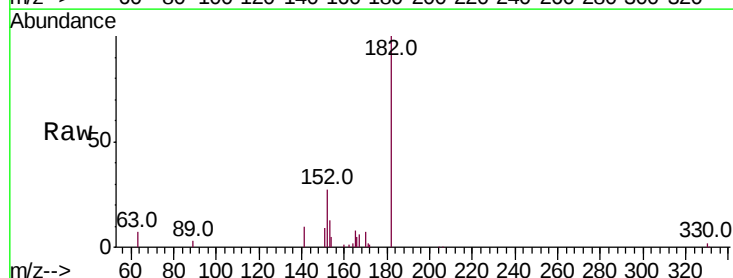
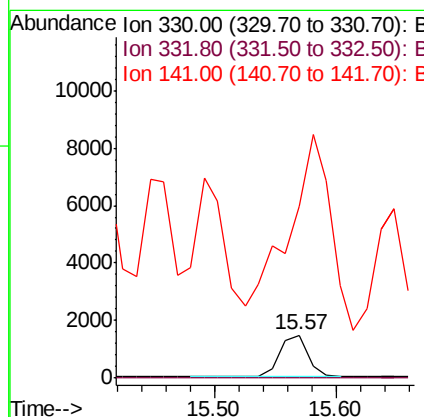
RT: 15.57 min Scan# 1444

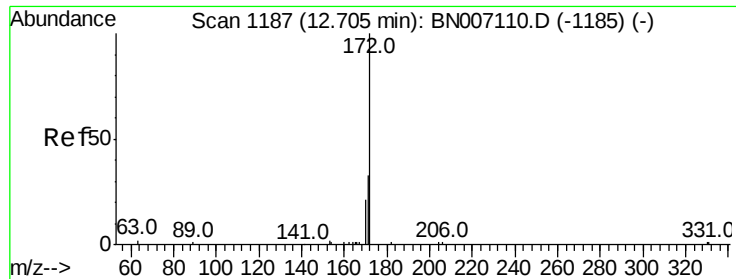
Delta R.T. -0.00 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	330	Resp:	2297
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	731.6	33.6	50.4#





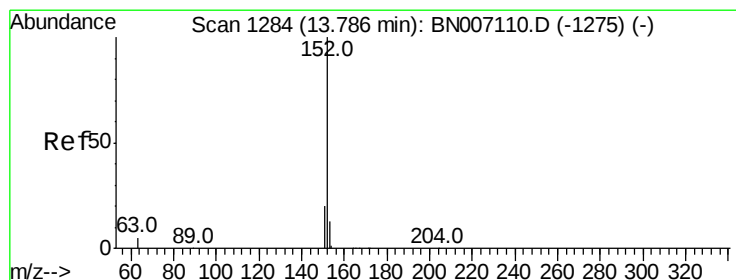
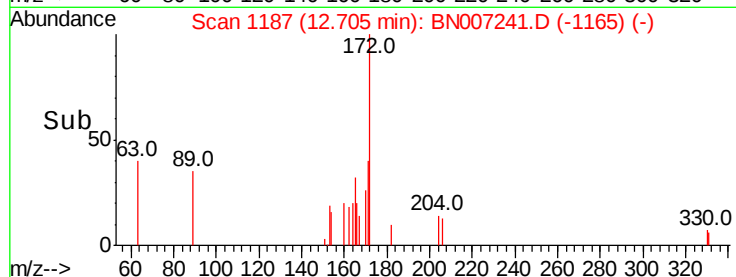
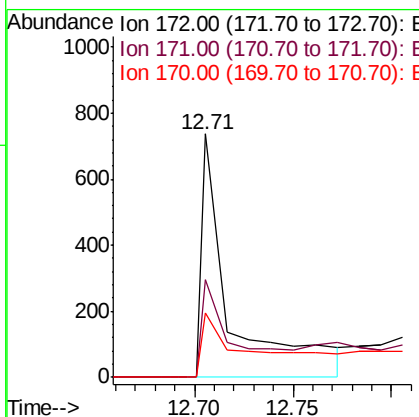
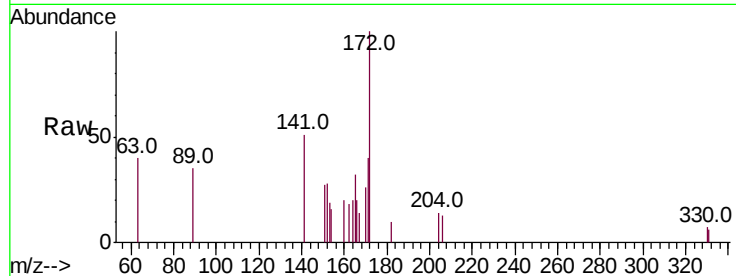
#14
2-Fluorobiphenyl
Concen: 0.027 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Tot Ion	Ratio	Lower	Upper
172	100		
171	40.2	26.3	39.5#
170	26.3	17.0	25.4#

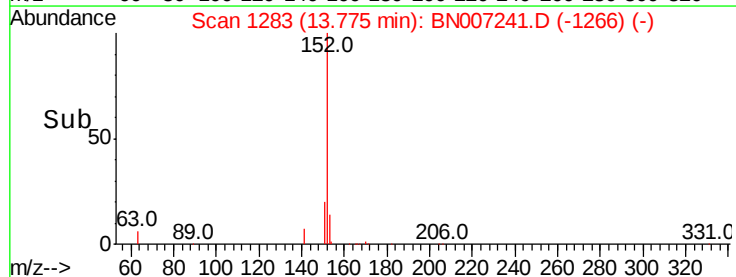
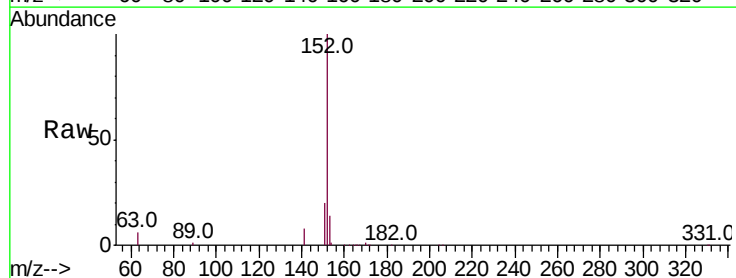
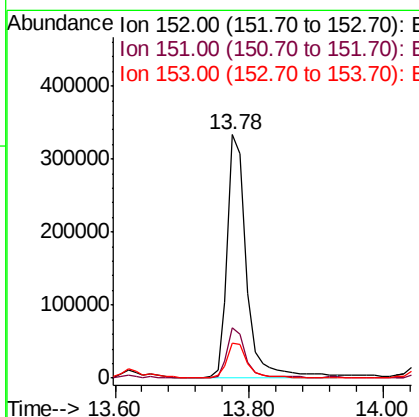
Manual Integrations
APPROVED

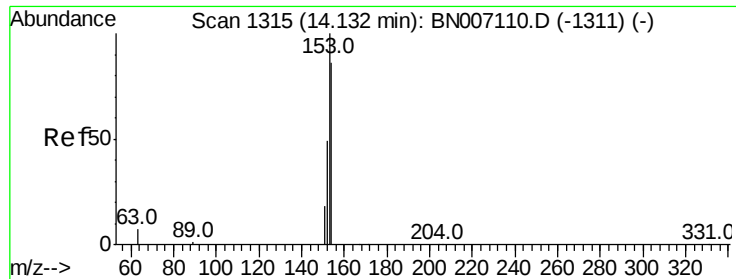
mohammad
8/20/2019 8:44:02 AM



#15
Acenaphthylene
Concen: 6.358 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	14.9	10.4	15.6





#16

Acenaphthene

Concen: 2.098 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

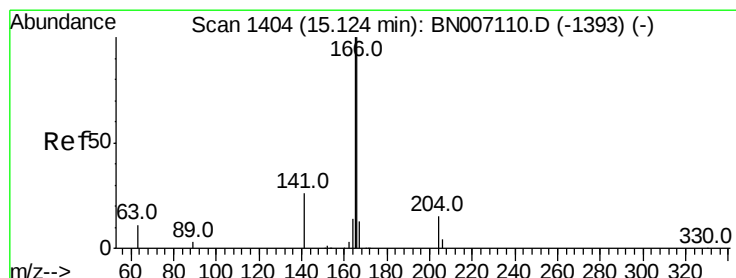
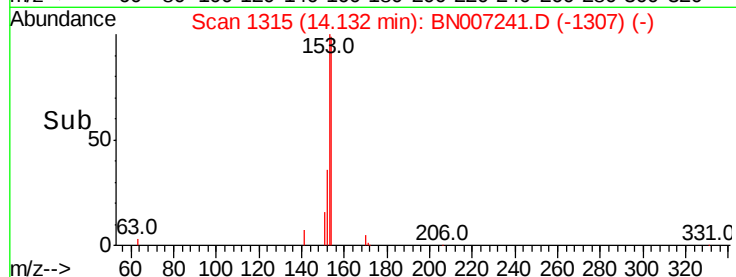
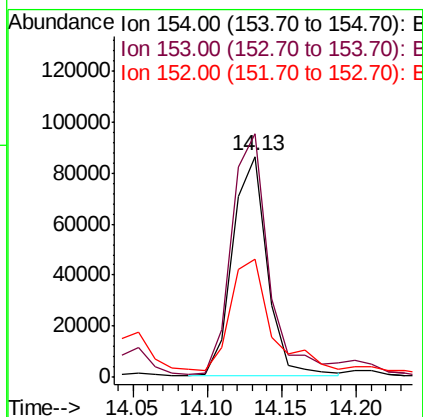
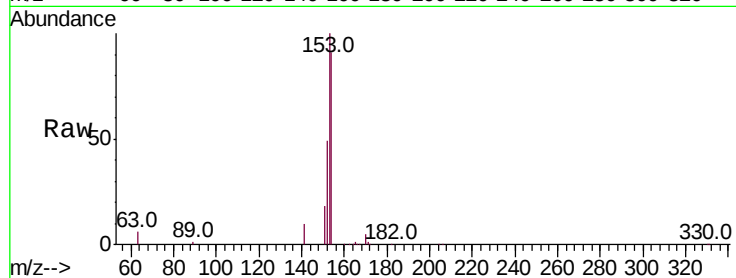
ClientSampleId :

EXT-034-SW091-080519-1

Tot Ion:	154	Resp:	139294
Ion Ratio	Lower	Upper	
154	100		
153	123.9	89.5	134.3
152	57.9	44.8	67.2

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



#17

Fluorene

Concen: 2.874 ng

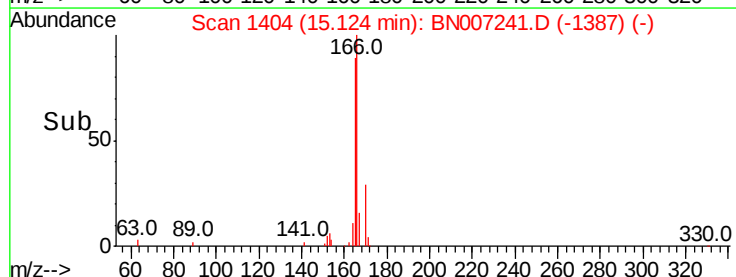
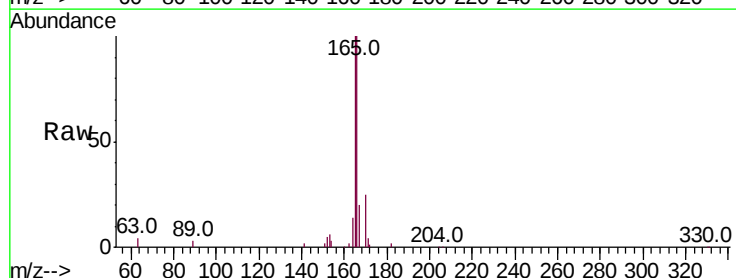
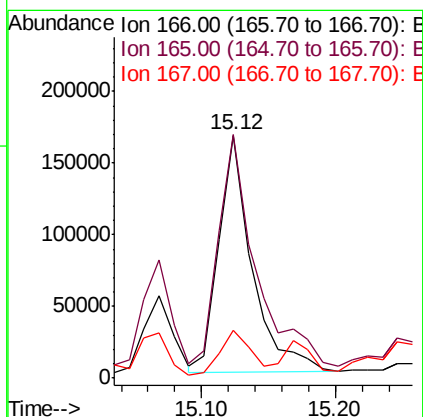
RT: 15.12 min Scan# 1404

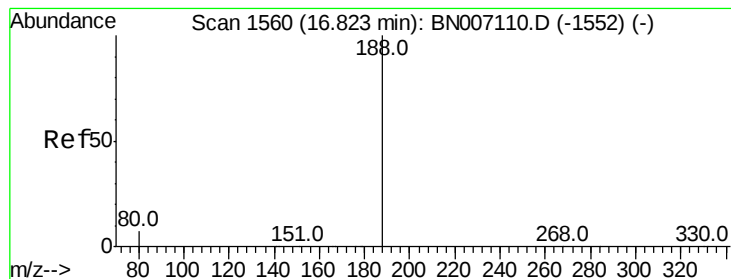
Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	166	Resp:	285457
Ion Ratio	Lower	Upper	
166	100		
165	110.9	77.9	116.9
167	17.6	10.9	16.3#





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.81 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

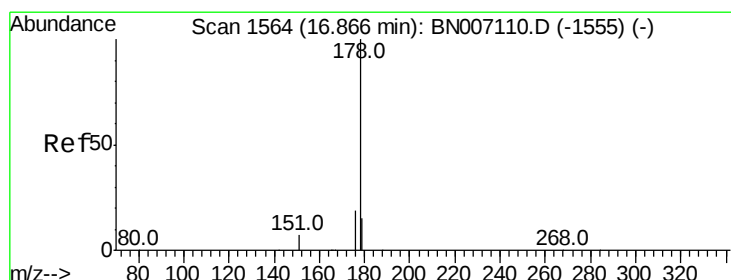
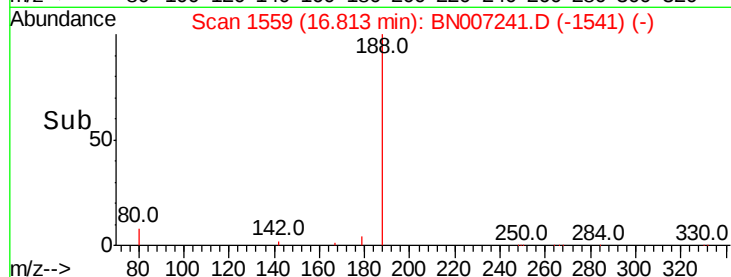
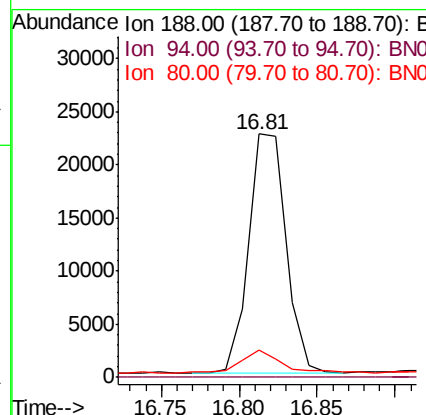
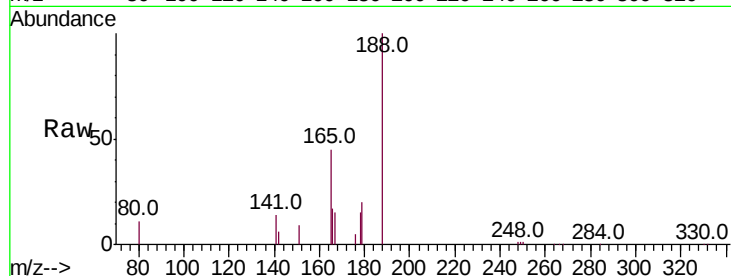
ClientSampleId :

EXT-034-SW091-080519-1

Tot Ion:	188	Resp:	37333
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.4	7.8	11.6

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



#22

Phenanthrene

Concen: 57.650 ng

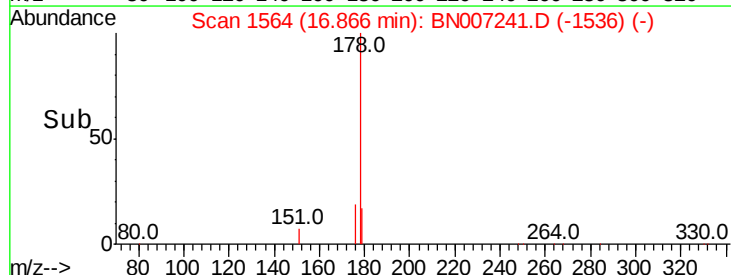
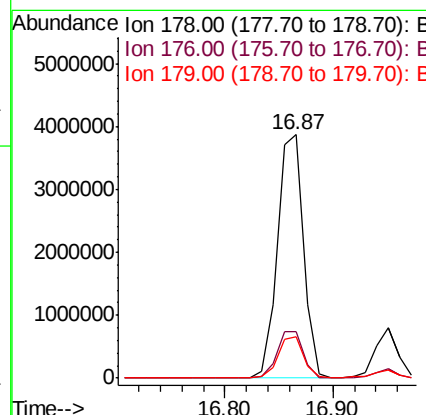
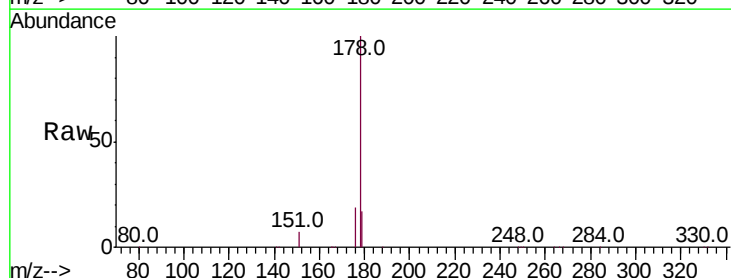
RT: 16.87 min Scan# 1564

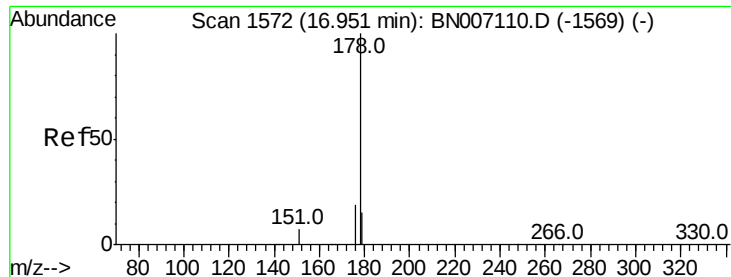
Delta R.T. -0.00 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	178	Resp:	6450064
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.2	22.8
179	16.6	12.3	18.5





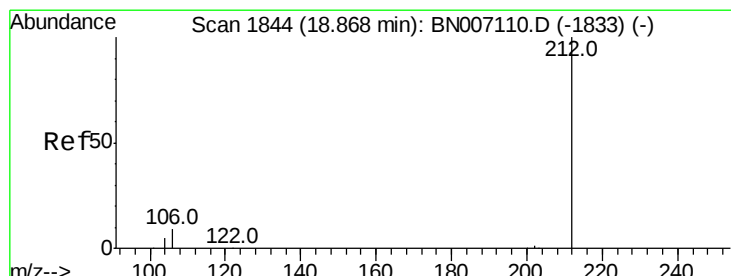
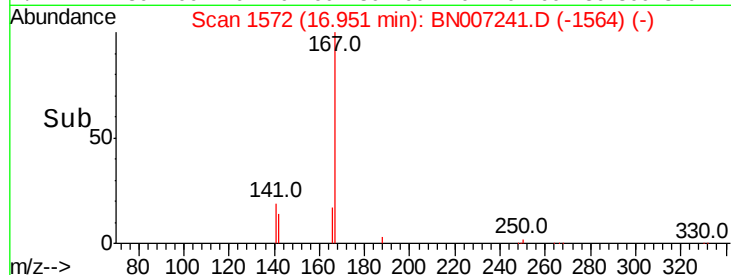
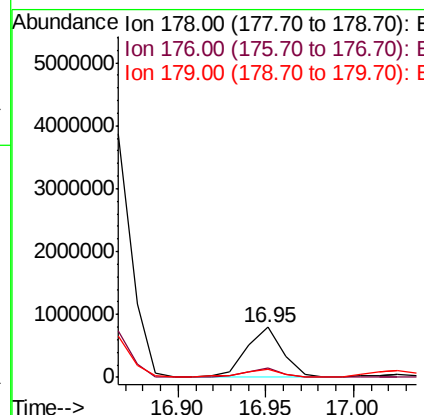
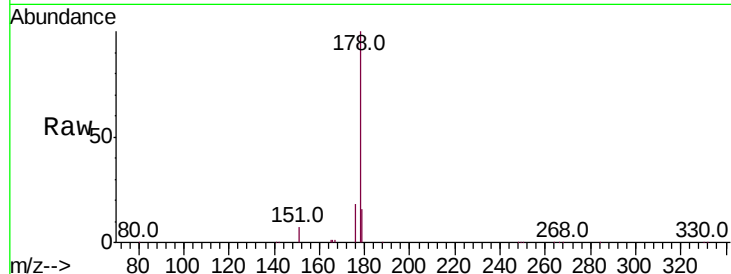
#23
 Anthracene
 Concen: 10.708 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW091-080519-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	17.4	12.5	18.7

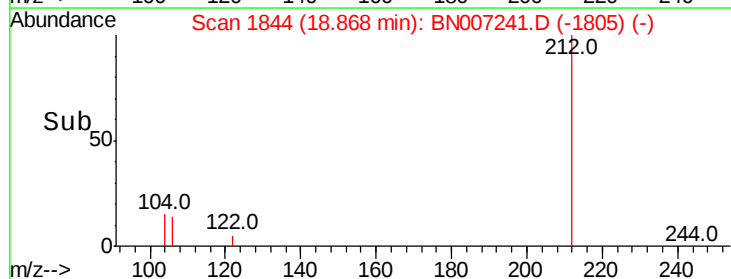
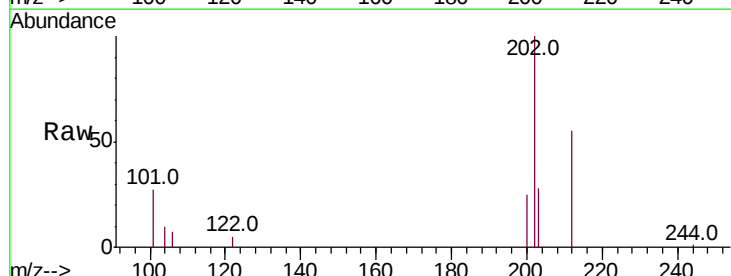
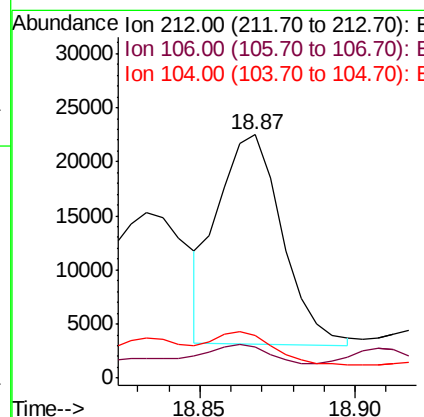
Manual Integrations
 APPROVED

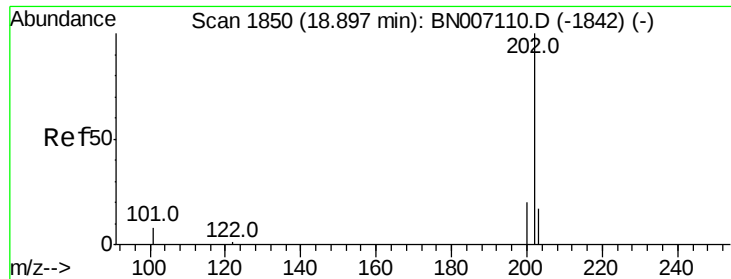
mohammad
 8/20/2019 8:44:02 AM



#24
 Fluoranthene-d10
 Concen: 0.211 ng m
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.4	8.2	12.2#
104	5.2	4.5	6.7





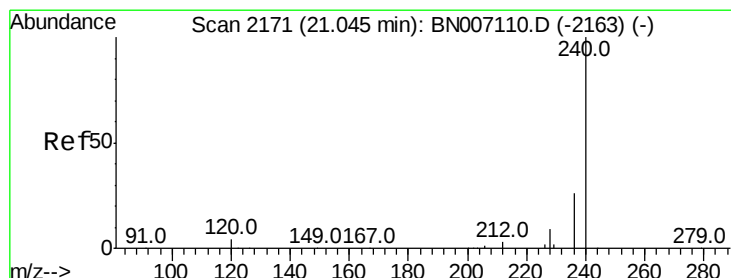
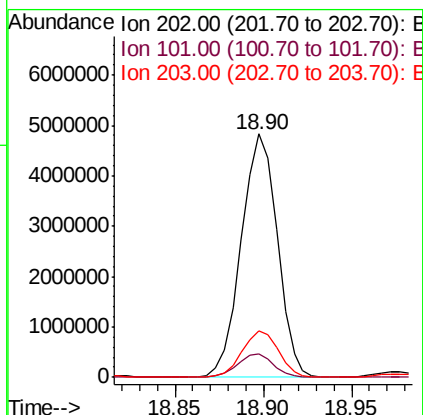
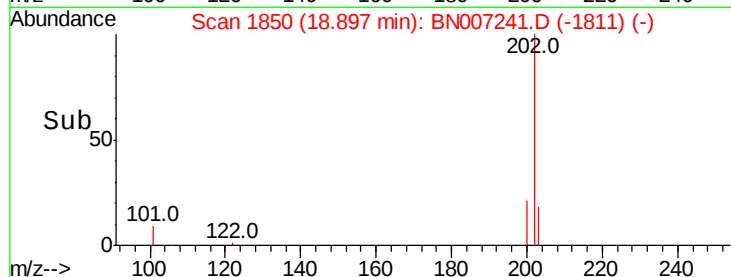
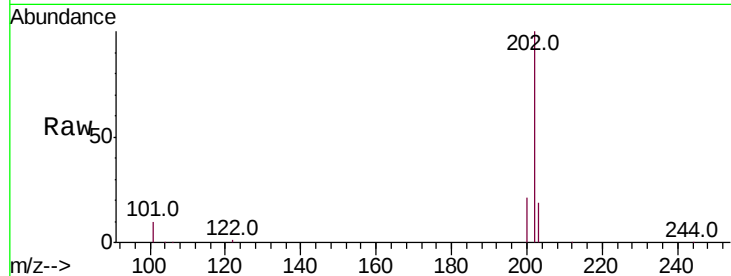
#25
Fluoranthene
 Concen: 47.507 ng
 RT: 18.90 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW091-080519-1

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.0	10.4
203	19.1	13.8	20.8

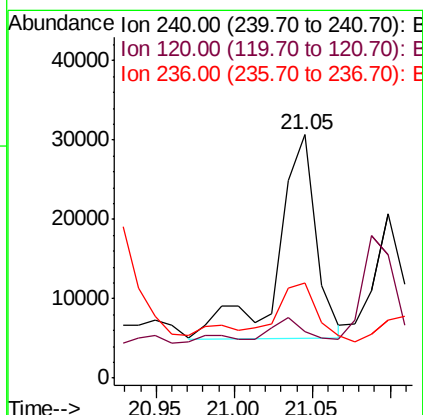
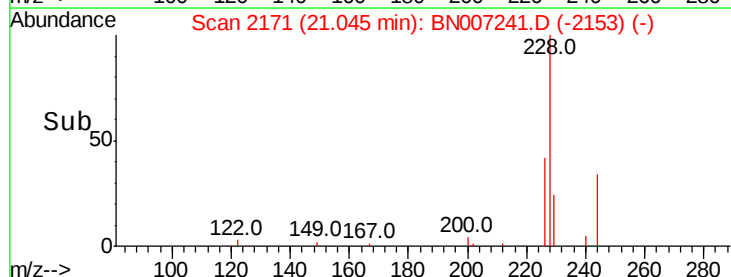
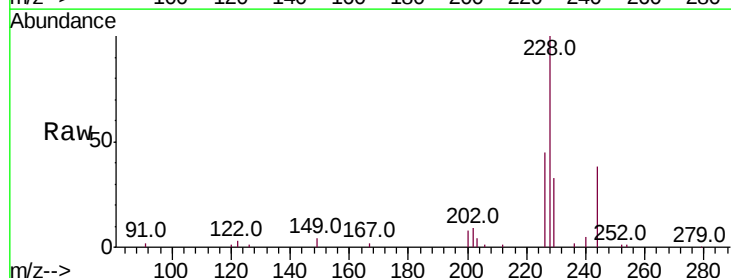
Manual Integrations
 APPROVED

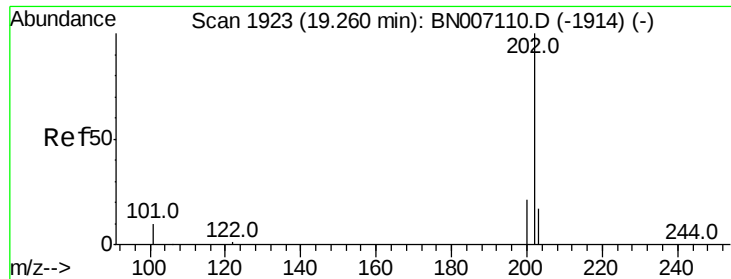
mohammad
 8/20/2019 8:44:02 AM



#26
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.05 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.0	4.0	6.0#
236	39.0	21.3	31.9#





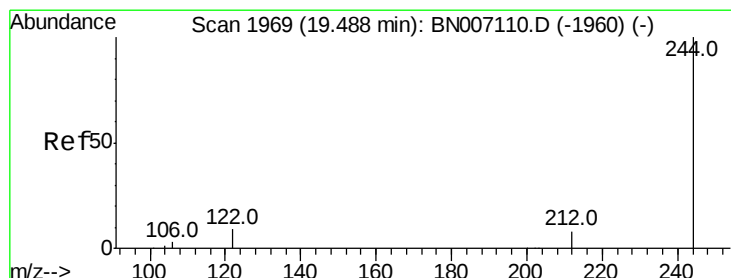
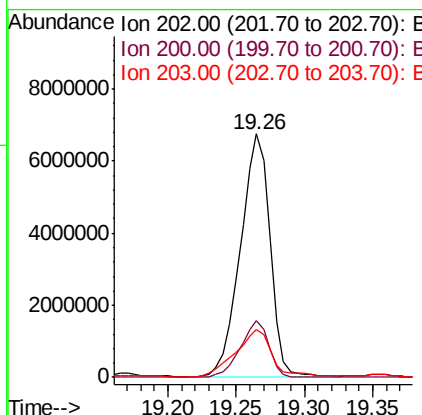
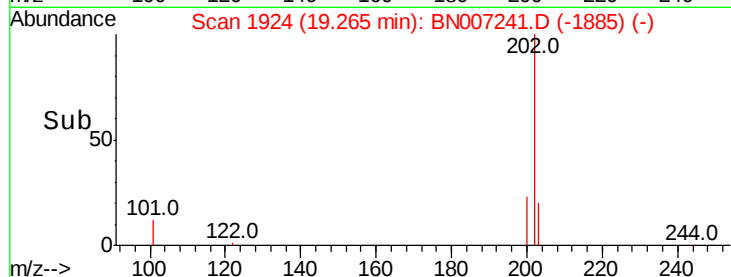
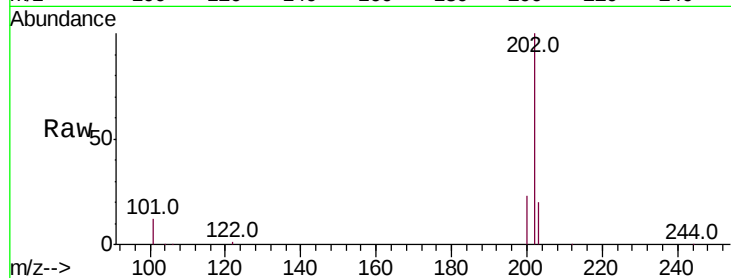
#27
Pvrene
Concen: 65.763 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Tot Ion:202 Resp:10135679
Ion Ratio Lower Upper
202 100
200 22.1 16.6 24.8
203 23.8 14.0 21.0#

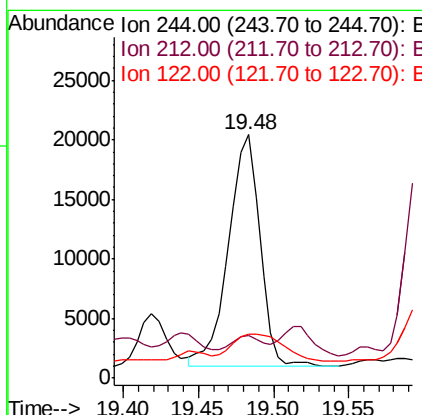
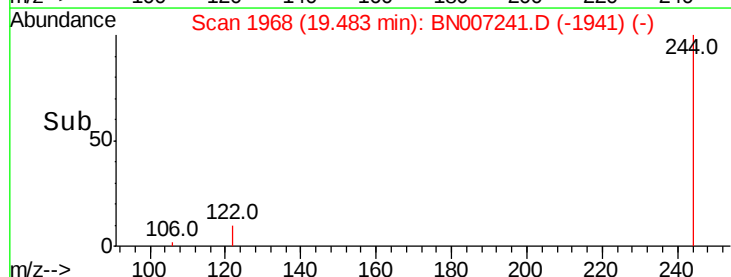
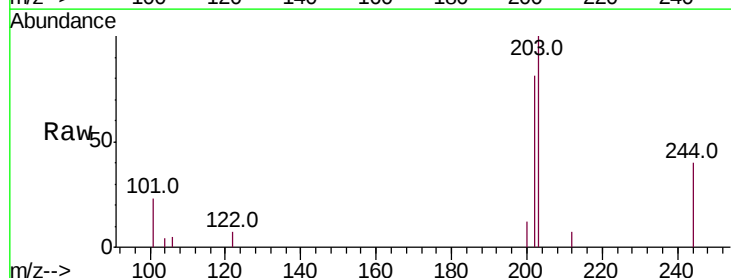
Manual Integrations
APPROVED

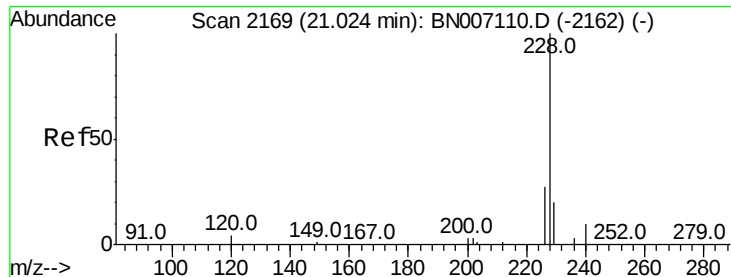
mohammad
8/20/2019 8:44:02 AM



#28
Terphenyl-d14
Concen: 0.237 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion:244 Resp: 28348
Ion Ratio Lower Upper
244 100
212 17.5 6.2 9.2#
122 18.2 7.4 11.2#





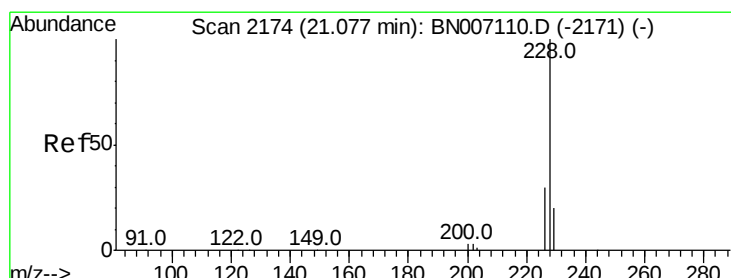
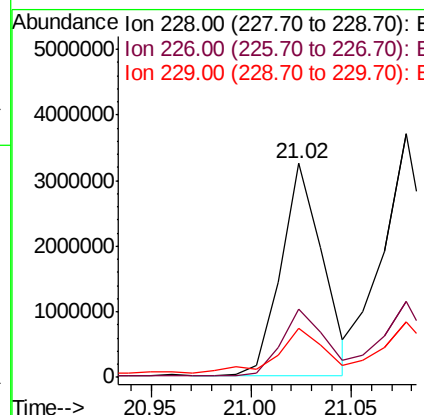
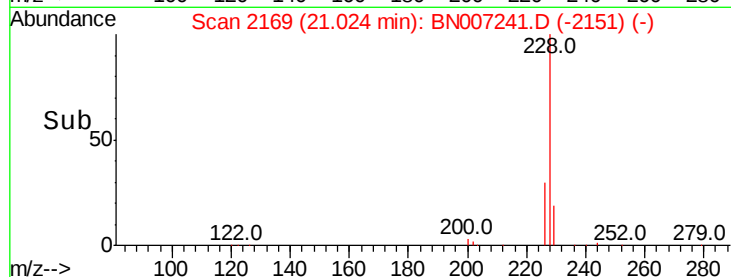
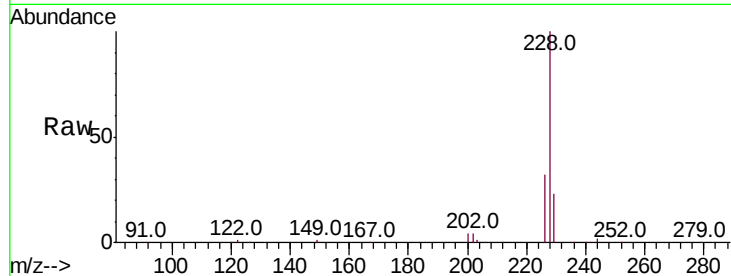
#29
Benzo(a)anthracene
Concen: 29.080 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Tot Ion:228 Resp: 4673873
Ion Ratio Lower Upper
228 100
226 31.6 21.8 32.6
229 22.8 15.6 23.4

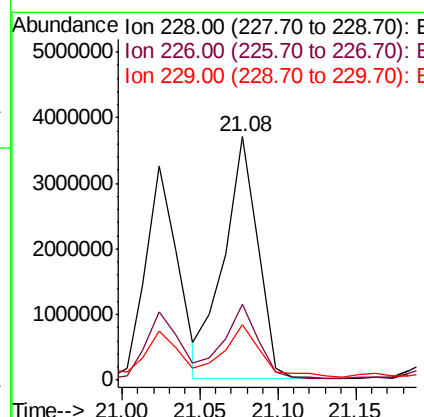
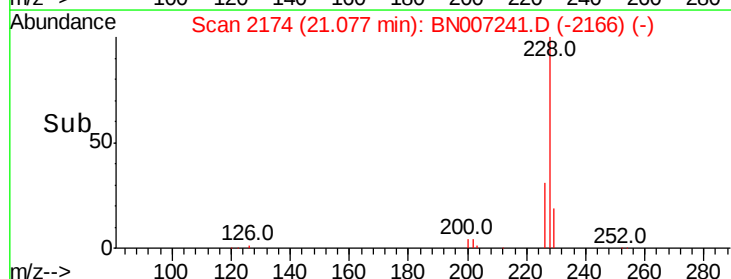
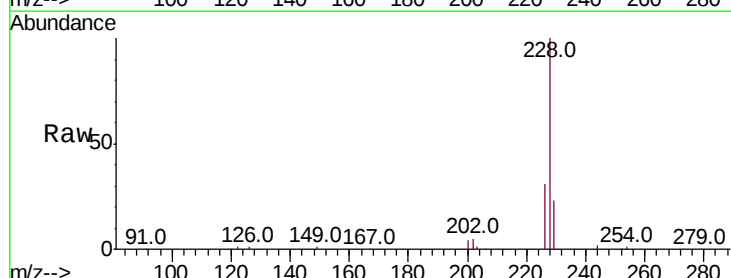
Manual Integrations
APPROVED

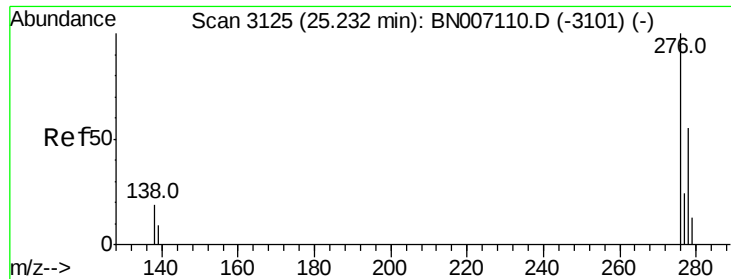
mohammad
8/20/2019 8:44:02 AM



#30
Chrysene
Concen: 35.673 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion:228 Resp: 5570551
Ion Ratio Lower Upper
228 100
226 30.9 23.8 35.6
229 22.7 15.7 23.5





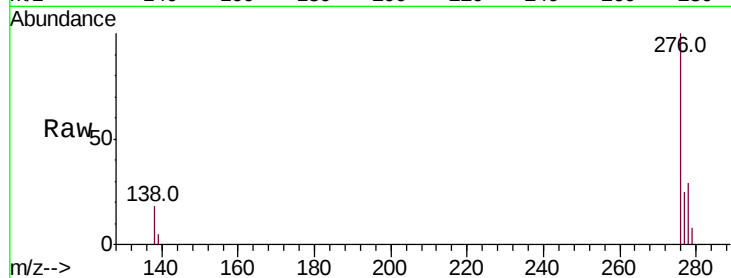
#31
Indeno(1,2,3-cd)pyrene
Concen: 14.234 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

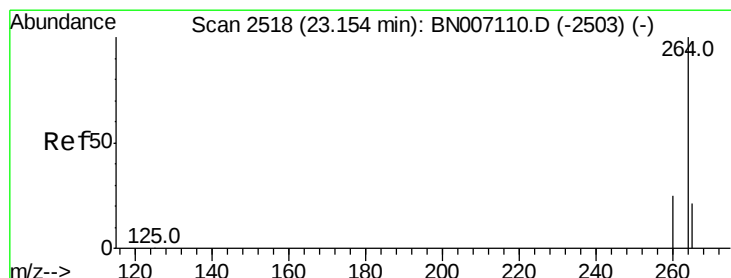
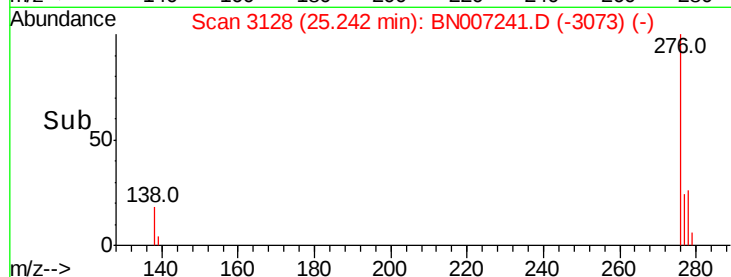
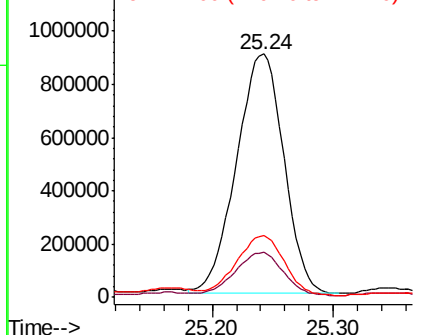
Tot Ion:276 Resp: 2449767
Ion Ratio Lower Upper
276 100
138 18.2 16.0 24.0
277 25.1 19.9 29.9

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM



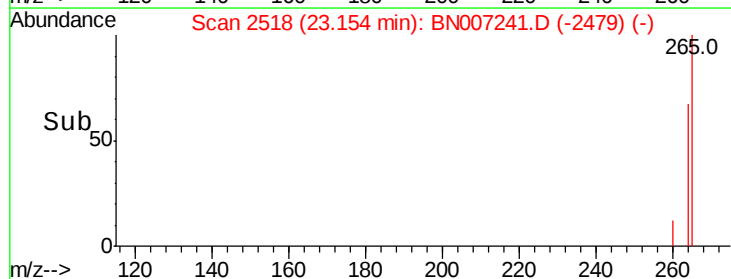
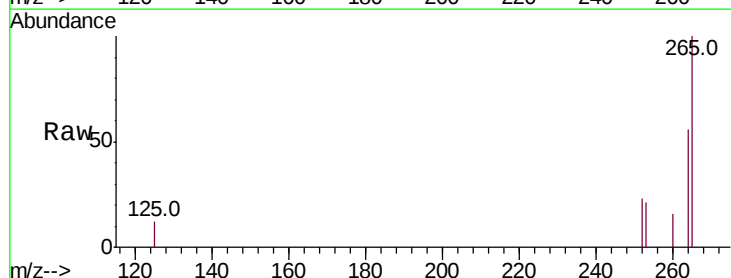
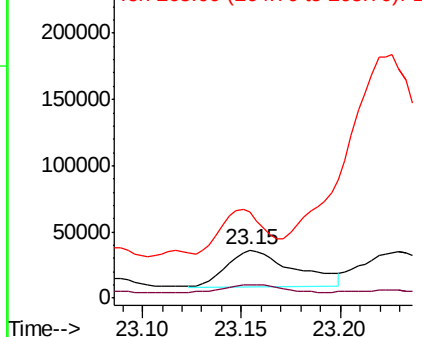
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

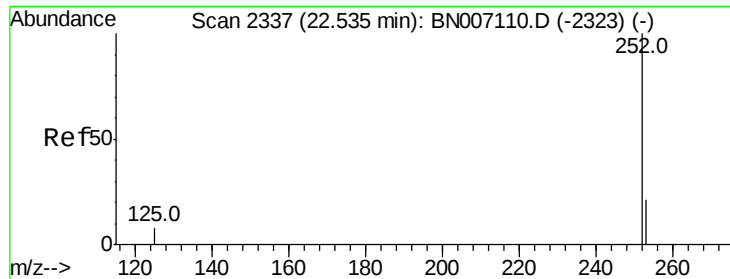


#32
Perylene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2518
Delta R.T. -0.02 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion:264 Resp: 64983
Ion Ratio Lower Upper
264 100
260 28.3 19.8 29.8
265 179.5 26.2 39.4#

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





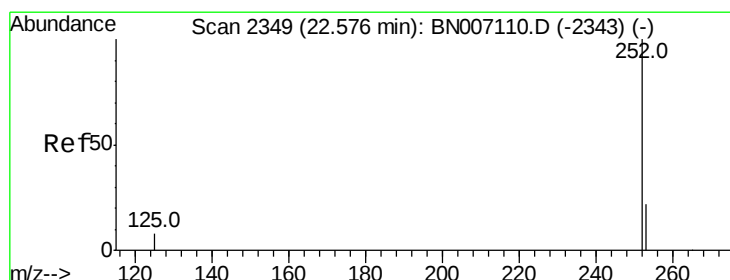
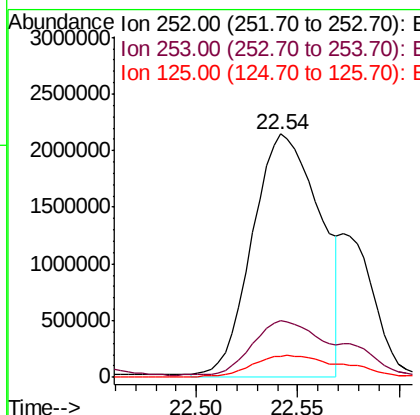
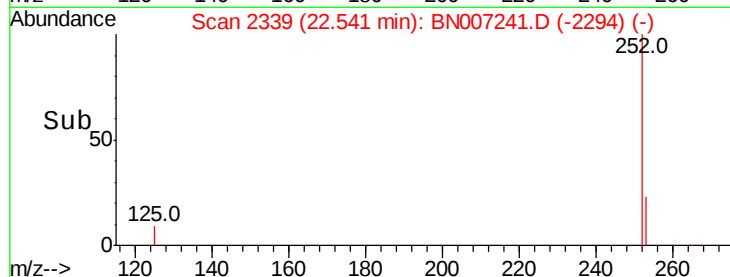
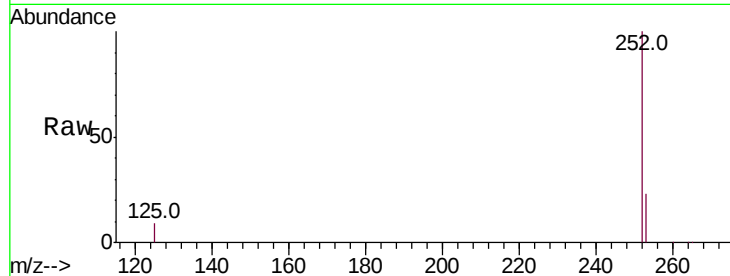
#33
Benzo(b)fluoranthene
Concen: 22.570 ng m
RT: 22.54 min Scan# 2339
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Tot Ion:252 Resp: 5029300
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 8.8 7.4 11.0

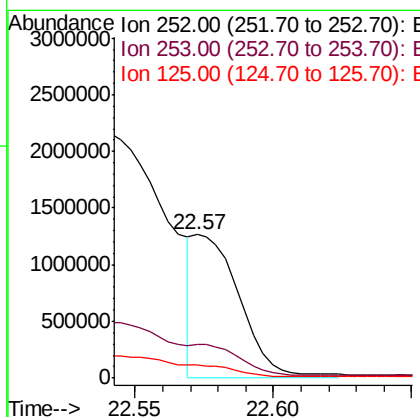
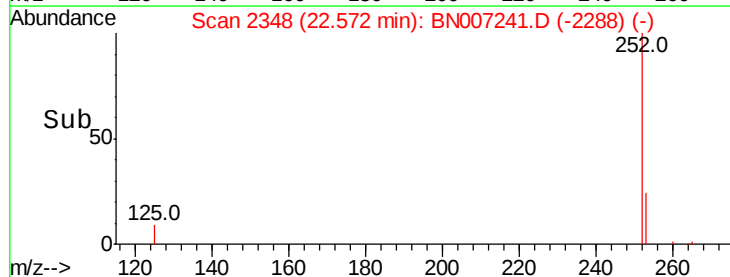
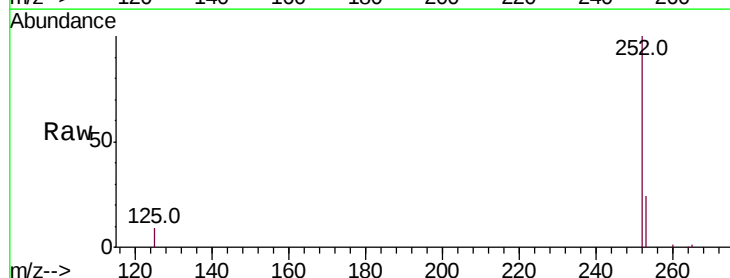
Manual Integrations
APPROVED

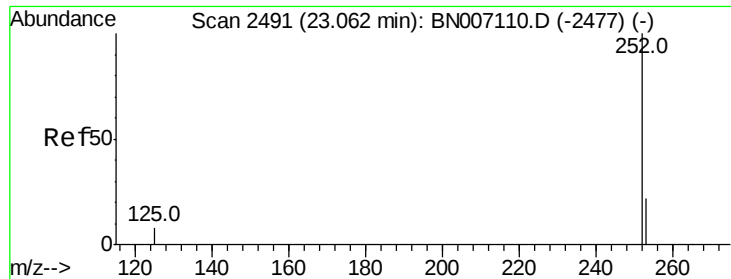
mohammad
8/20/2019 8:44:02 AM



#34
Benzo(k)fluoranthene
Concen: 6.681 ng m
RT: 22.57 min Scan# 2348
Delta R.T. -0.02 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion:252 Resp: 1470217
Ion Ratio Lower Upper
252 100
253 23.6 18.1 27.1
125 8.9 7.4 11.0





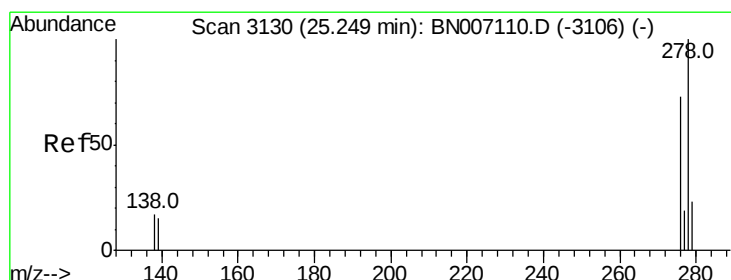
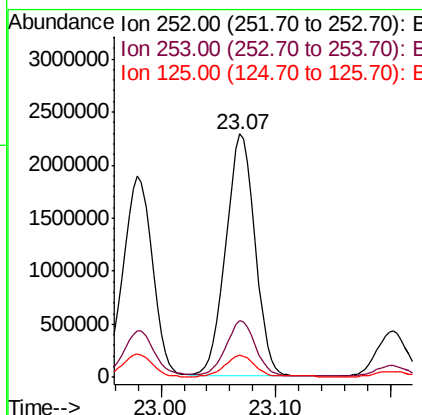
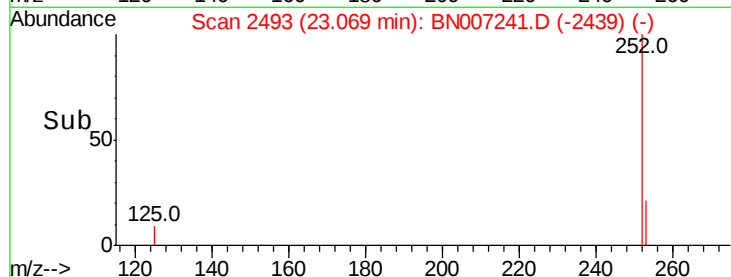
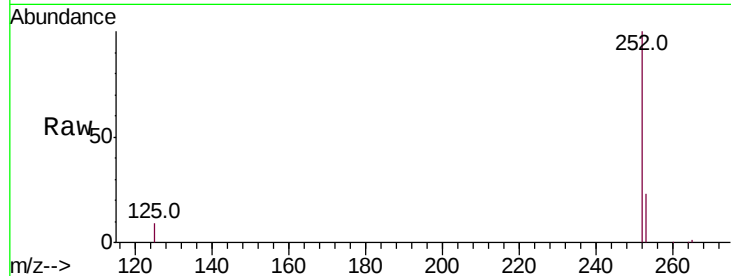
#35
Benzo(a)pyrene
Concen: 20.145 ng
RT: 23.07 min Scan# 2493
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Tot Ion:252 Resp: 4069709
Ion Ratio Lower Upper
252 100
253 23.2 18.5 27.7
125 9.0 8.2 12.4

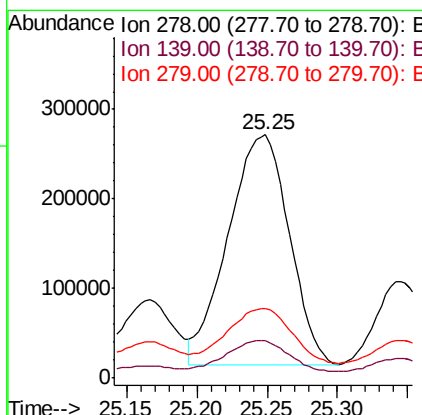
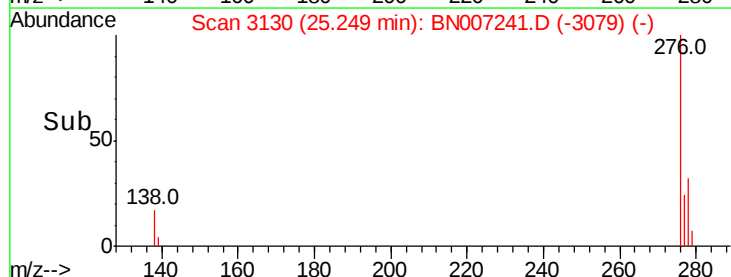
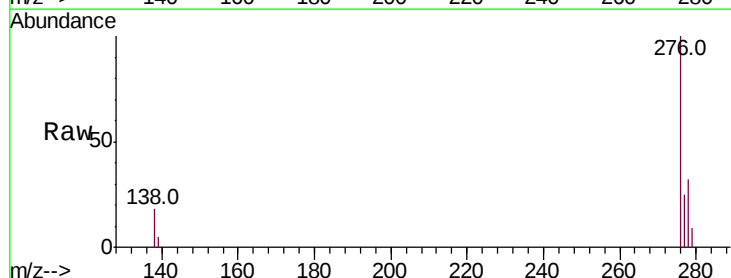
Manual Integrations
APPROVED

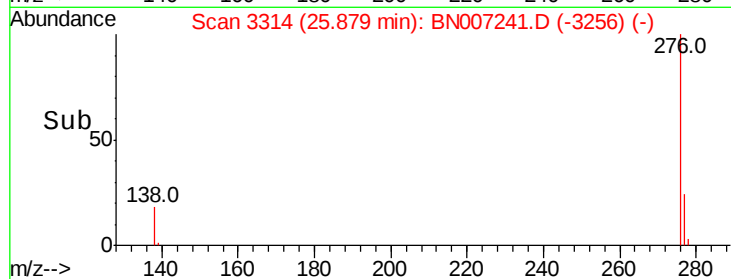
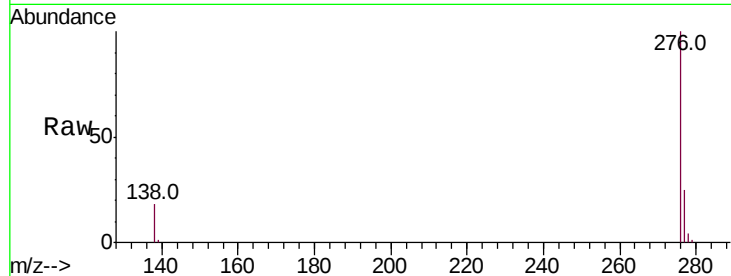
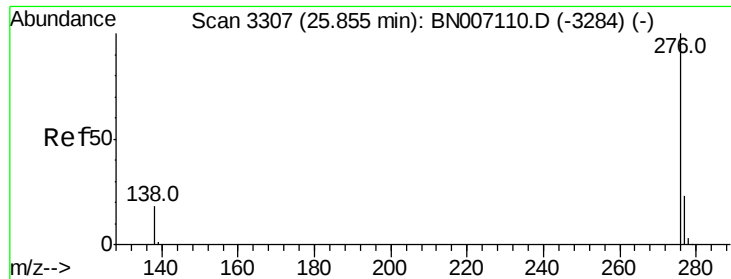
mohammad
8/20/2019 8:44:02 AM



#36
Dibenzo(a,h)anthracene
Concen: 3.859 ng
RT: 25.25 min Scan# 3130
Delta R.T. -0.02 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion:278 Resp: 777754
Ion Ratio Lower Upper
278 100
139 15.2 11.3 16.9
279 28.8 19.3 28.9





#37
Benzo(a,h,i)perylene
Concen: 13.860 ng
RT: 25.88 min Scan# 3314
Delta R.T. -0.00 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.8	29.8
138	18.3	14.6	22.0

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519-1

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:02 AM

