

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007239.D
 Acq On : 17 Aug 2019 02:04
 Operator : HP/JU
 Sample : K4282-12
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-SW060-080819

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:00 AM

Quant Time: Aug 19 04:11:17 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	7.43	152	7393	0.40	ng	0.00
6) Naphthalene-d8	10.17	136	28718	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	17387	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	35861	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	36491	0.40	ng	-0.02
32) Perylene-d12	23.15	264	44236	0.40	ng	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5672	0.32	ng	0.00
4) Phenol-d6	6.61	99	7531	0.34	ng	0.00
7) Nitrobenzene-d5	8.55	82	6220	0.27	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	10849	0.20	ng	-0.01
13) 2,4,6-Tribromophenol	15.56	330	2112	0.23	ng	-0.01
14) 2-Fluorobiphenyl	12.71	172	748	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	19425	0.15	ng	-0.01
28) Terphenyl-d14	19.48	244	15800	0.16	ng	-0.02
Target Compounds						Qvalue
8) Naphthalene	10.23	128	34003	0.422	ng	99
11) 2-Methylnaphthalene	11.85	142	33559	0.588	ng	97
15) Acenaphthylene	13.78	152	193616	2.130	ng	98
16) Acenaphthene	14.13	154	38133	0.655	ng	94
17) Fluorene	15.12	166	88953	1.021	ng	# 85
22) Phenanthrene	16.86	178	2562017	23.839	ng	99
23) Anthracene	16.95	178	317595	3.234	ng	98
25) Fluoranthene	18.89	202	2454750	17.856	ng	98
27) Pyrene	19.26	202	4281431	33.456	ng	# 95
29) Benzo(a)anthracene	21.02	228	1876766	14.064	ng	91
30) Chrysene	21.07	228	1964219	15.150	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	779047	5.452	ng	98
33) Benzo(b)fluoranthene	22.53	252	1691854m	11.153	ng	
34) Benzo(k)fluoranthene	22.56	252	473593m	3.161	ng	
35) Benzo(a)pyrene	23.06	252	1388148	10.094	ng	99
36) Dibenzo(a,h)anthracene	25.23	278	252821	1.843	ng	# 91
37) Benzo(a,h,i)perylene	25.86	276	977081	6.923	ng	100

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

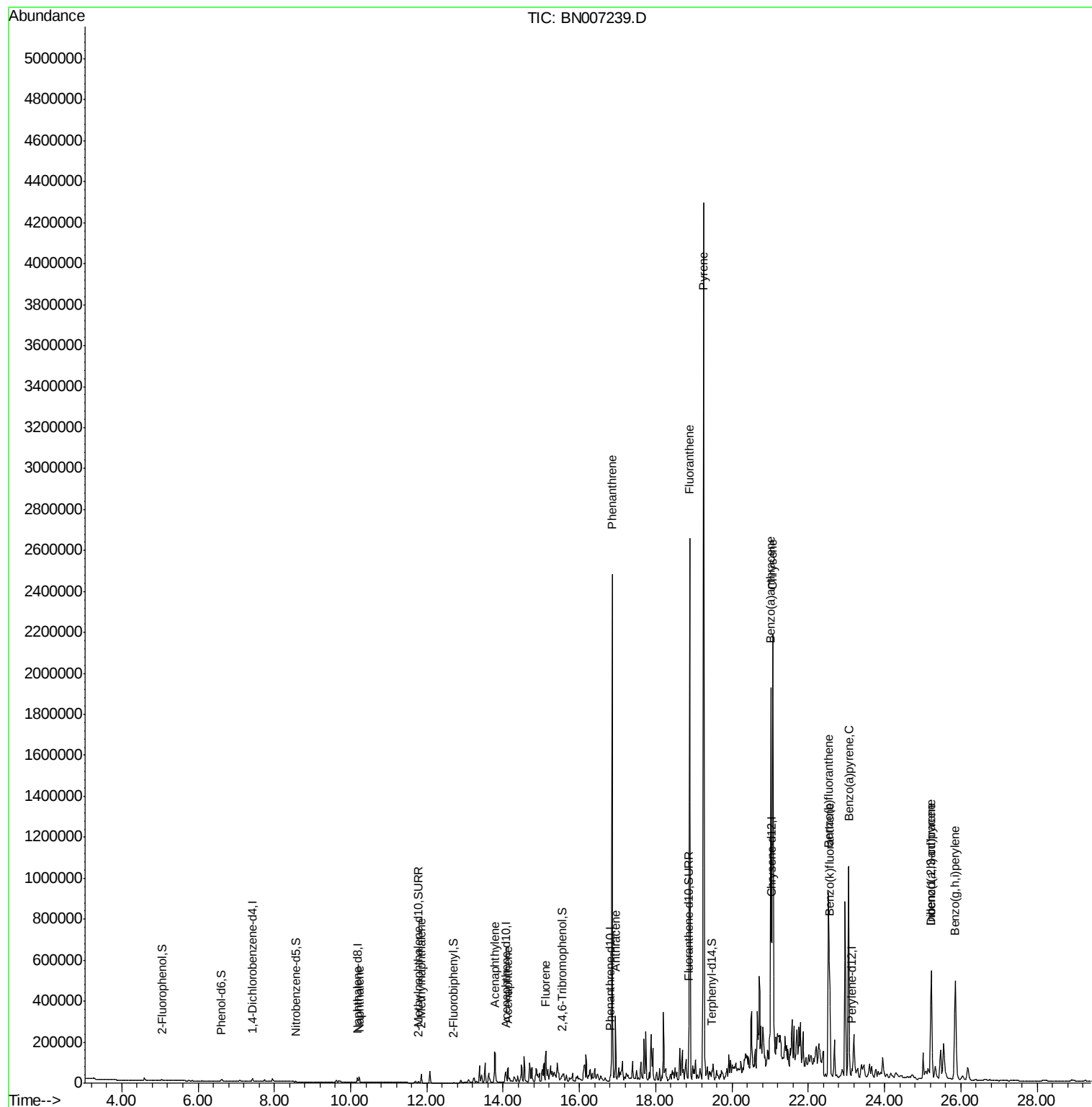
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007239.D
Acq On : 17 Aug 2019 02:04
Operator : HP/JU
Sample : K4282-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

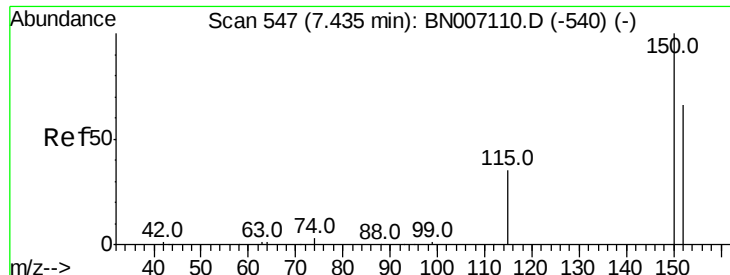
Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM

Quant Time: Aug 19 04:11:17 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

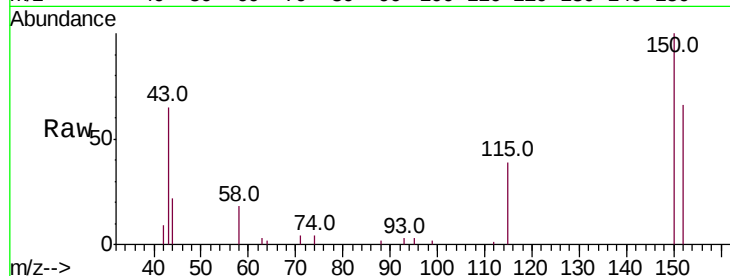
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.9	121.7	182.5
115	59.2	46.2	69.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM

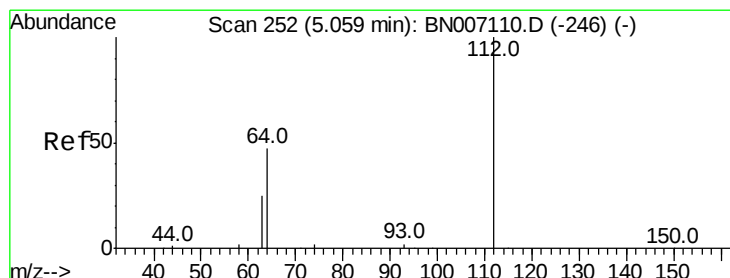
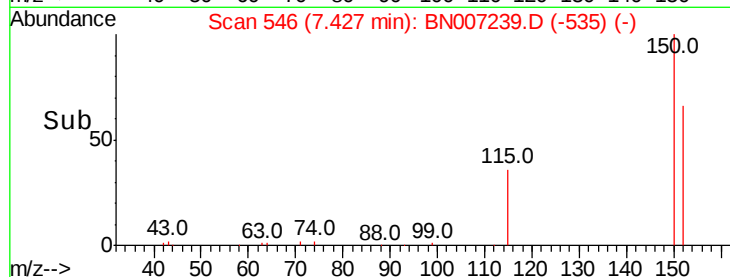
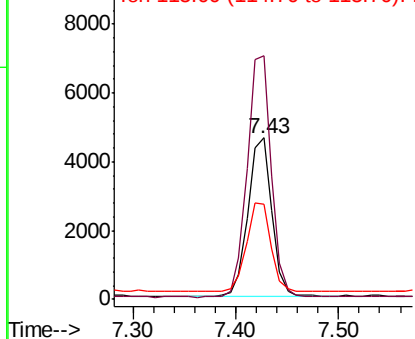


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

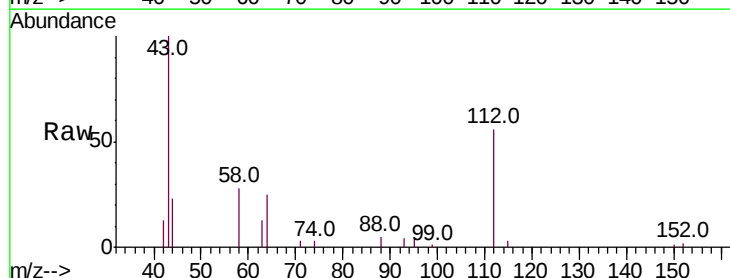
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.319 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	42.6	63.8
63	27.6	22.2	33.2

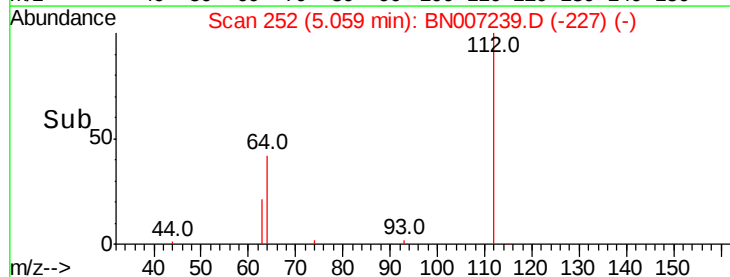
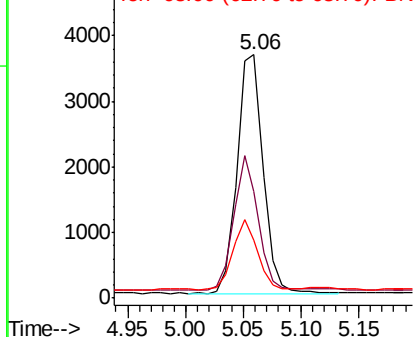


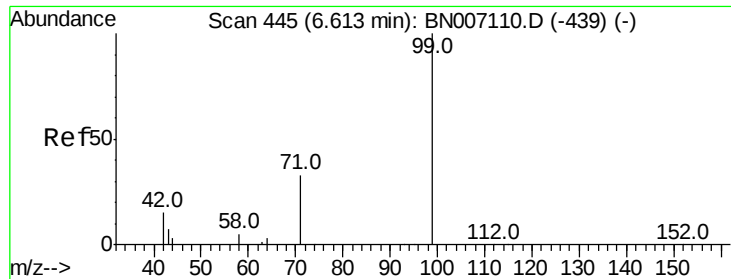
Abundance

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: 0.342 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

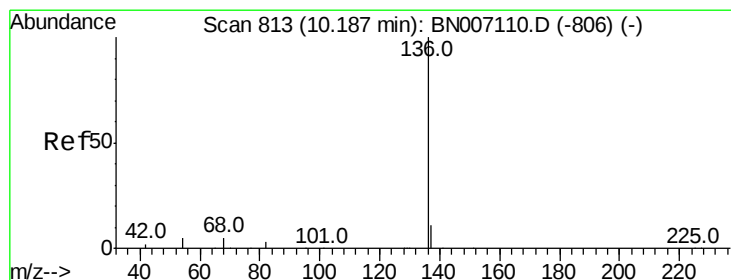
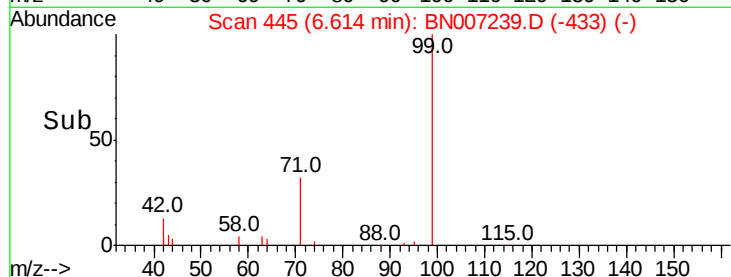
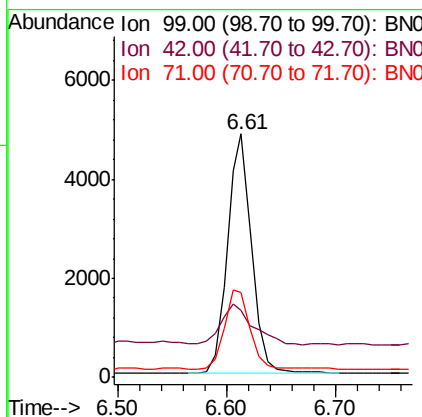
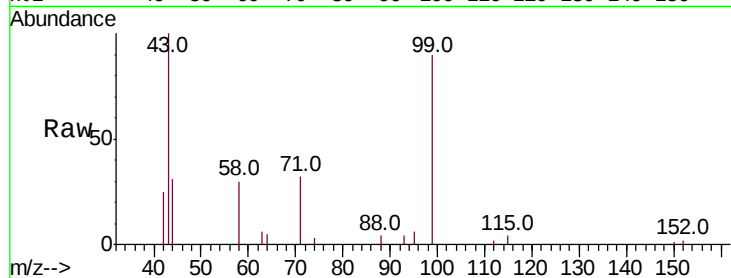
ClientSampleId :

PST-016-SW060-080819

Tot Ion:	99	Resp:	7531
Ion	Ratio	Lower	Upper
99	100		
42	22.6	15.8	23.6
71	34.9	27.0	40.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM



#6

Naphthalene-d8

Concen: 0.400 ng

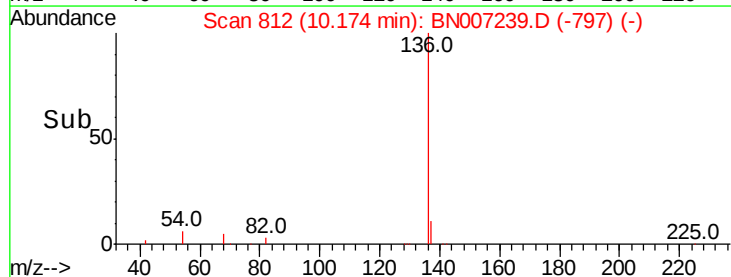
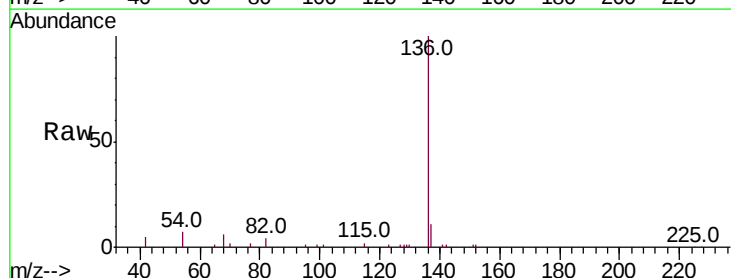
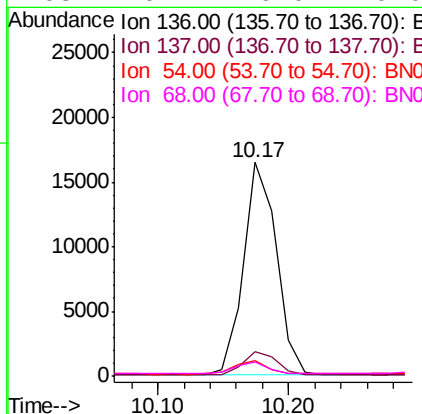
RT: 10.17 min Scan# 812

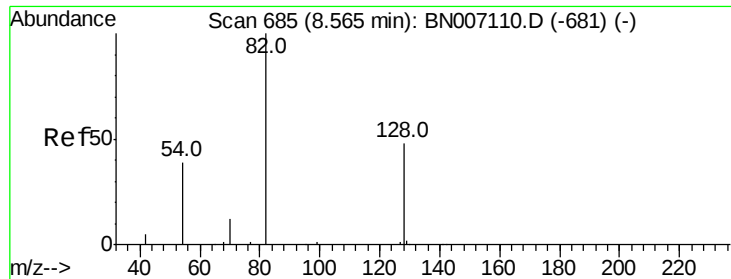
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	136	Resp:	28718
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.4	14.0
54	7.2	6.6	9.8
68	6.4	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.269 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

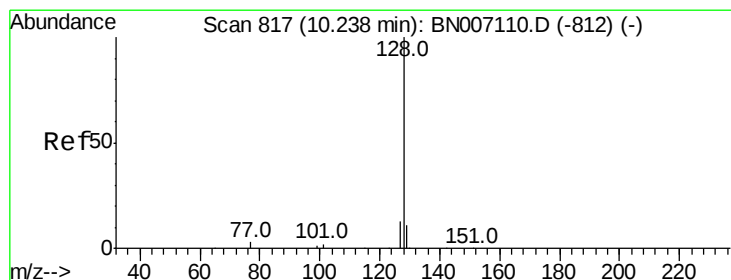
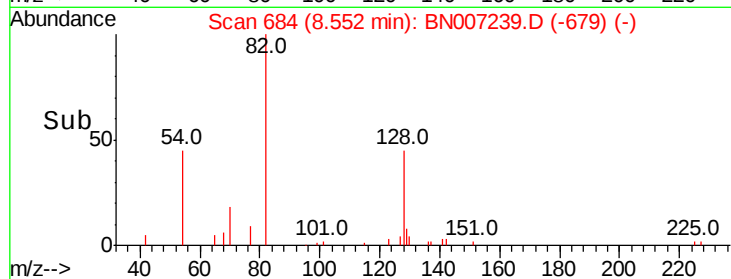
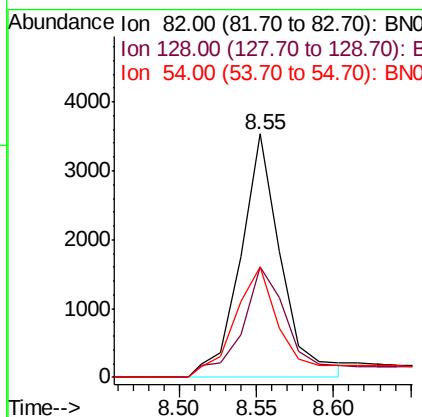
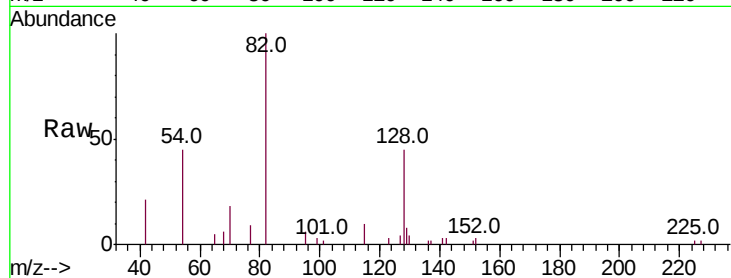
ClientSampleId :

PST-016-SW060-080819

Tot Ion:	82	Resp:	6220
Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.6	51.8
54	45.2	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM



#8

Naphthalene

Concen: 0.422 ng

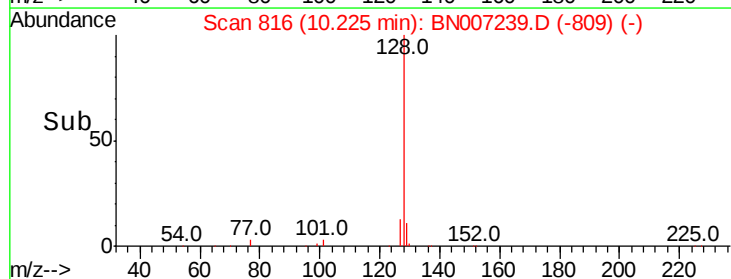
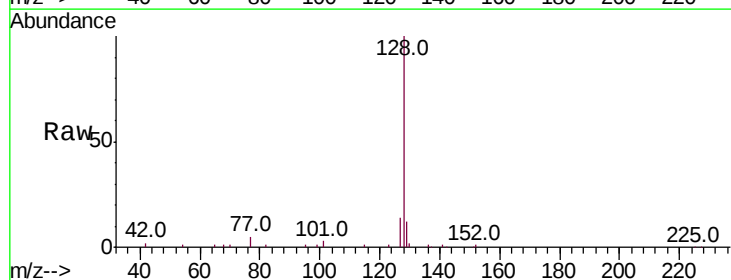
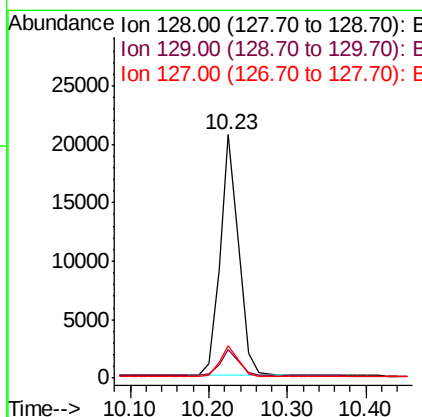
RT: 10.23 min Scan# 816

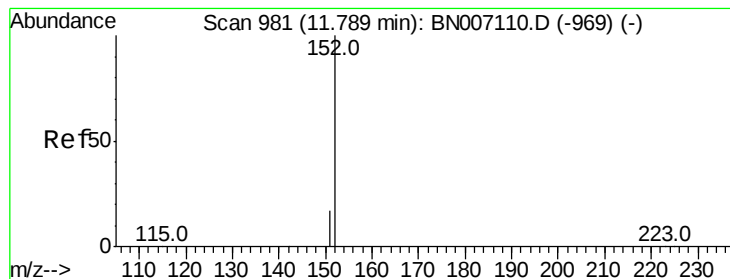
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	128	Resp:	34003
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.4	14.2
127	13.6	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.203 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

ClientSampleId :

PST-016-SW060-080819

Tot Ion:152 Resp: 10849

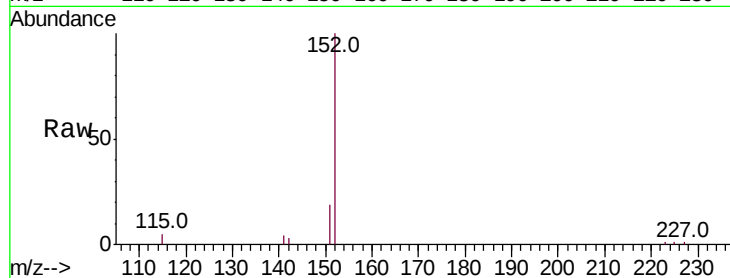
Ion Ratio Lower Upper

152 100

151 19.4 15.5 23.3

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.78

8000

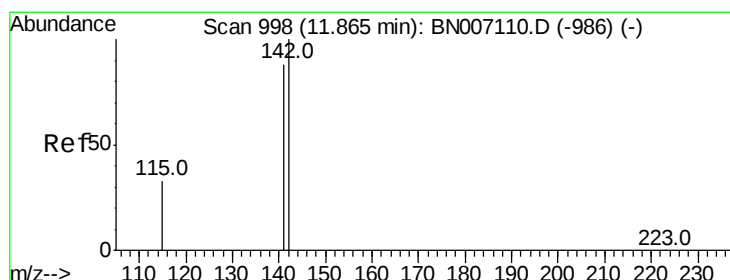
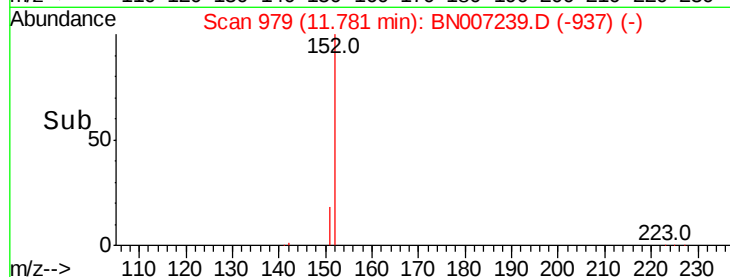
6000

4000

2000

0

Time-->



#11

2-Methylnaphthalene

Concen: 0.588 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

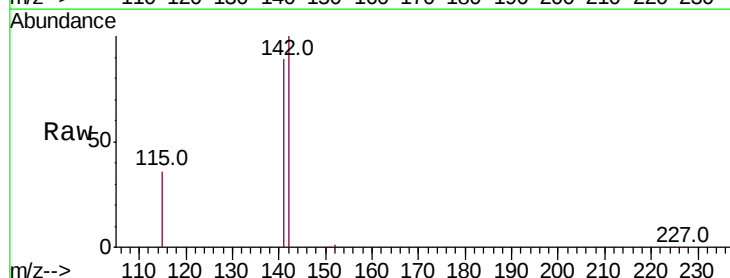
Tgt Ion:142 Resp: 33559

Ion Ratio Lower Upper

142 100

141 88.5 69.0 103.6

115 36.2 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

11.85

25000

20000

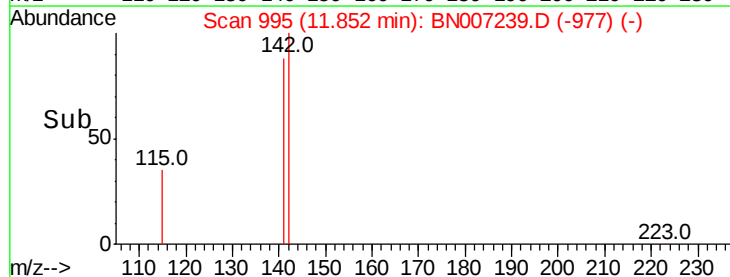
15000

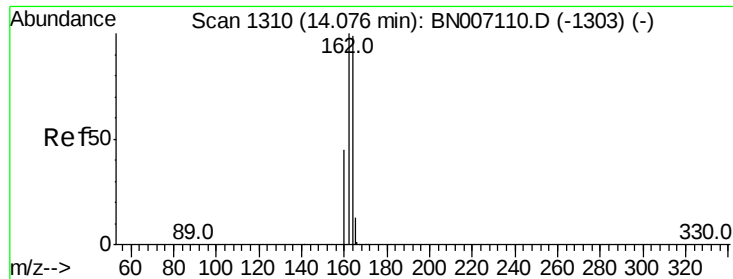
10000

5000

0

Time-->





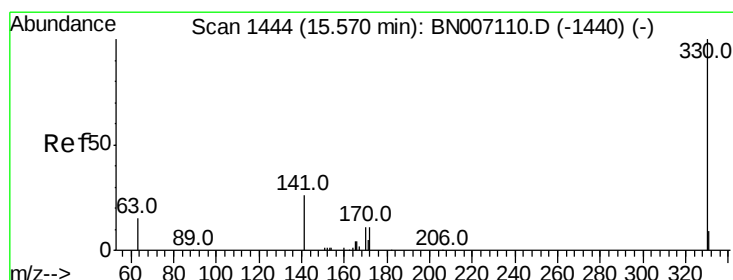
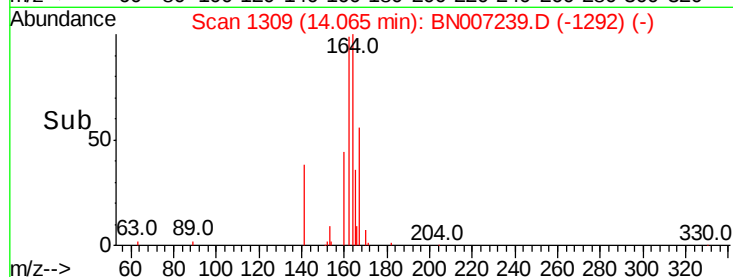
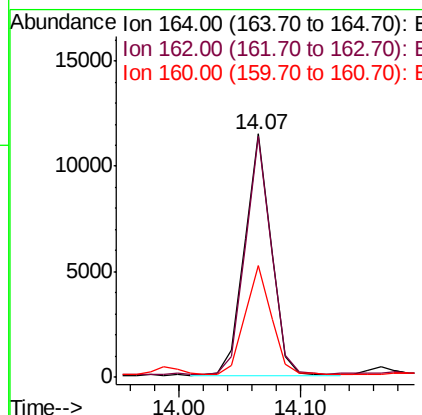
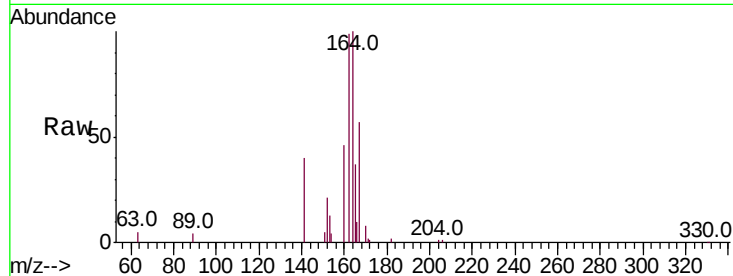
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.07 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
164	100		
162	99.2	82.2	123.4
160	45.8	38.3	57.5

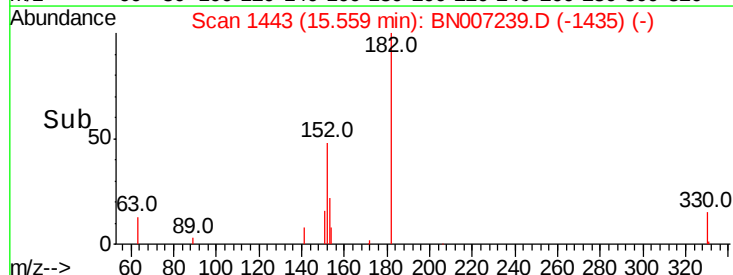
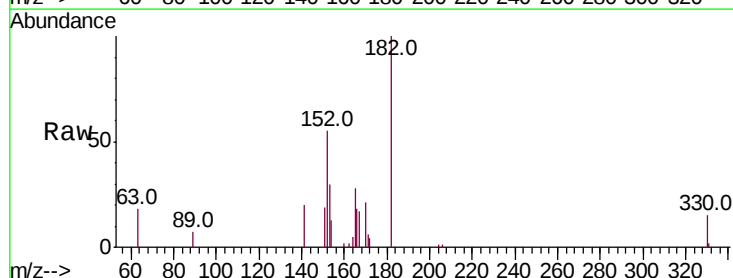
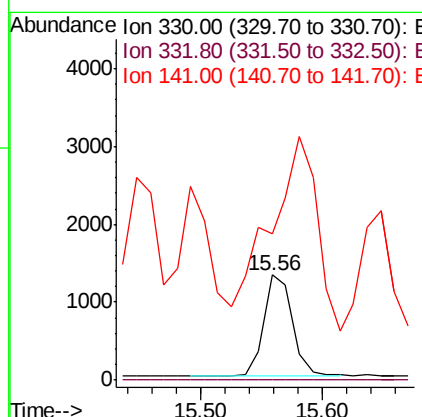
Manual Integrations
APPROVED

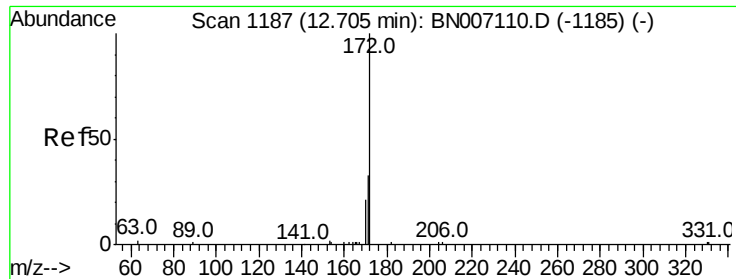
mohammad
8/20/2019 8:44:00 AM



#13
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.56 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

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





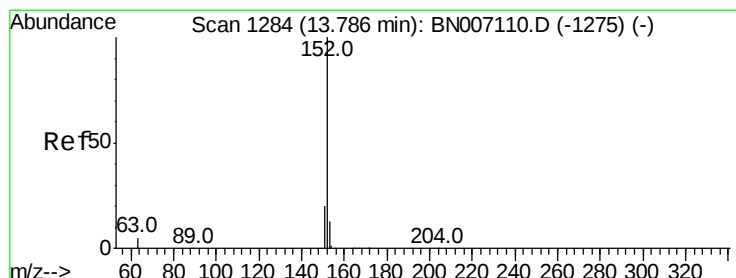
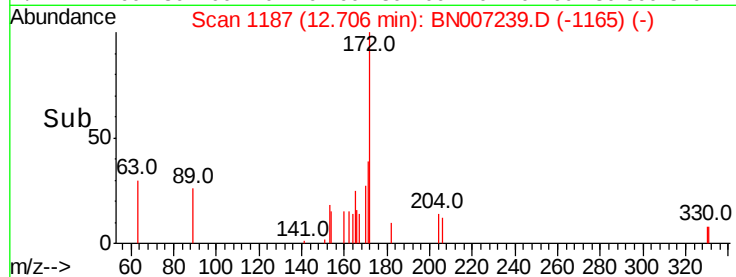
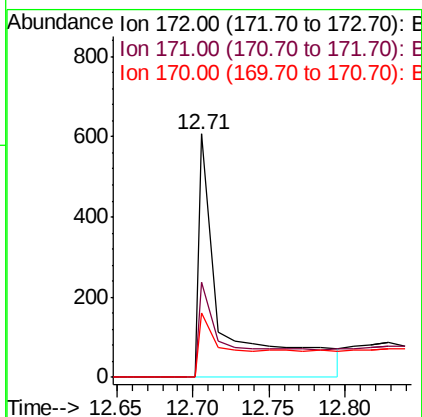
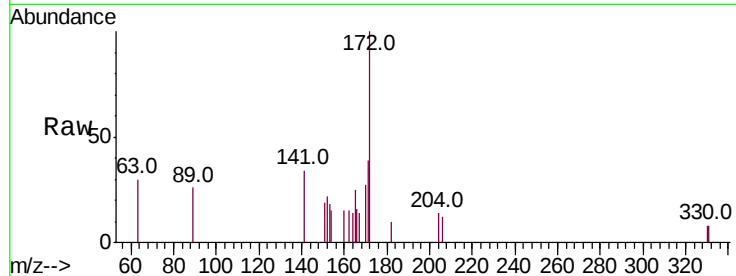
#14
2-Fluorobiphenyl
Concen: 0.030 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.9	26.3	39.5
170	26.5	17.0	25.4

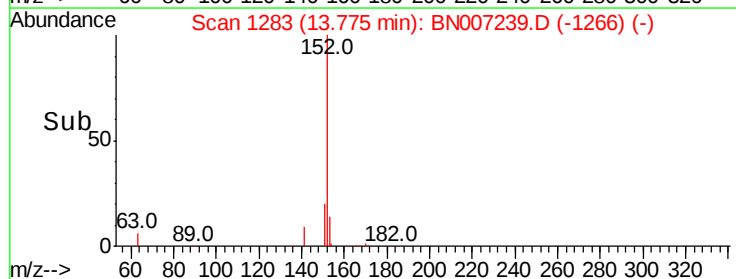
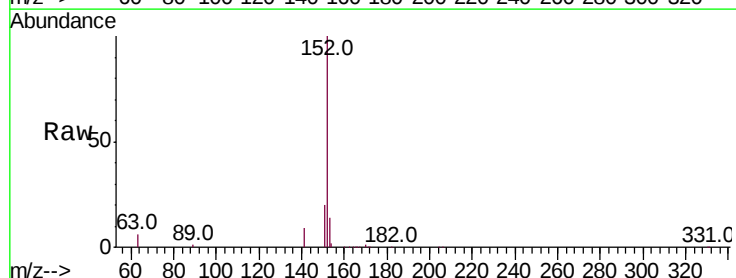
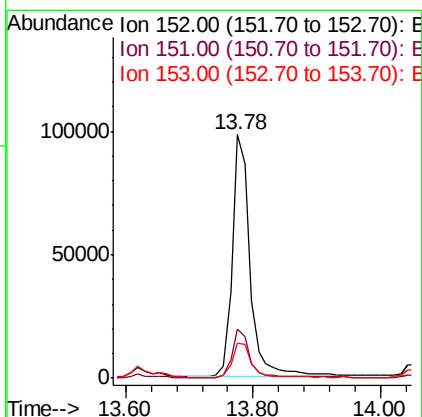
Manual Integrations
APPROVED

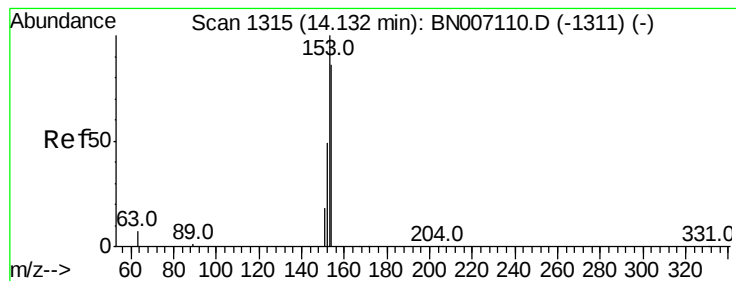
mohammad
8/20/2019 8:44:00 AM



#15
Acenaphthylene
Concen: 2.130 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	15.0	10.4	15.6





#16

Acenaphthene

Concen: 0.655 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

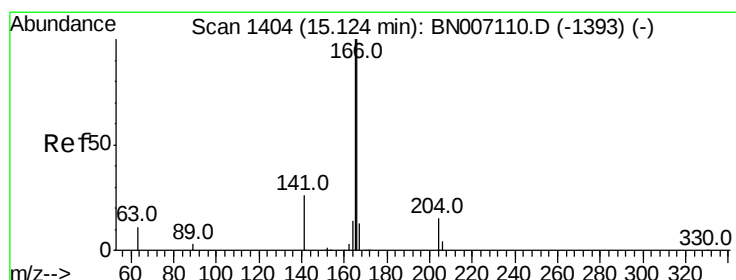
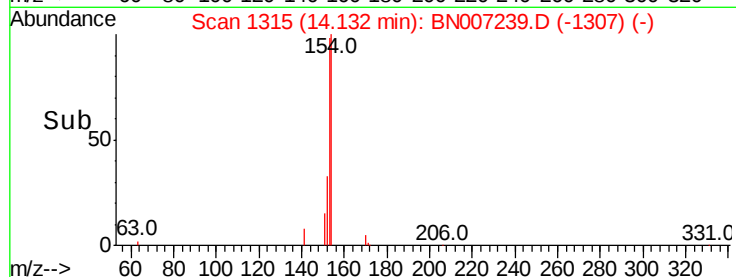
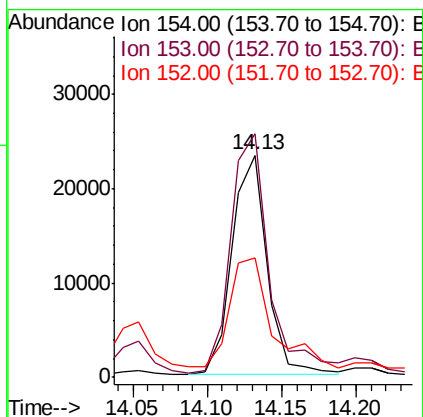
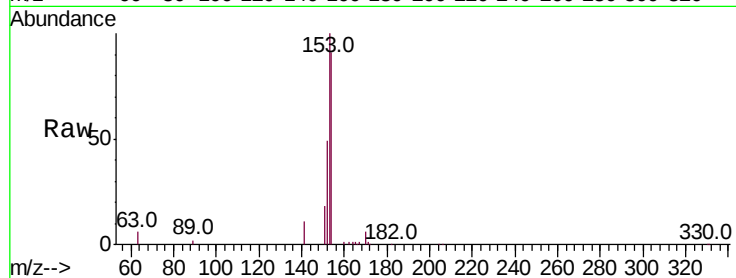
ClientSampleId :

PST-016-SW060-080819

Tot Ion:	154	Resp:	38133
Ion Ratio	Lower	Upper	
154	100		
153	118.3	89.5	134.3
152	59.5	44.8	67.2

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM



#17

Fluorene

Concen: 1.021 ng

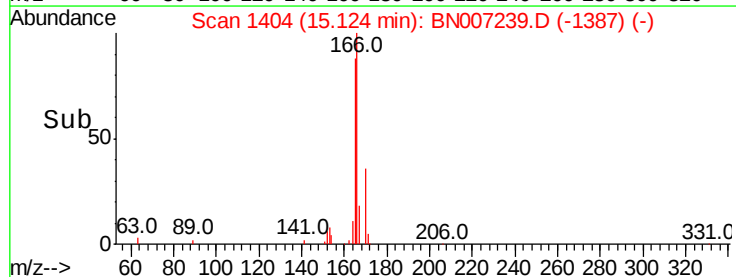
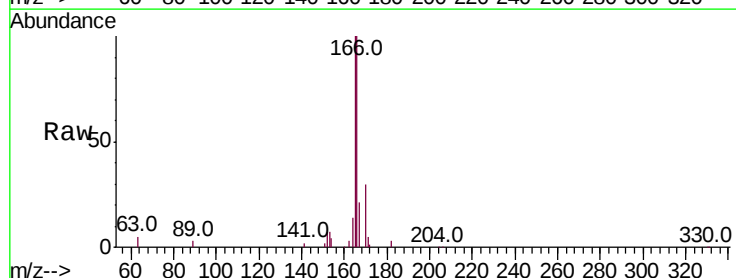
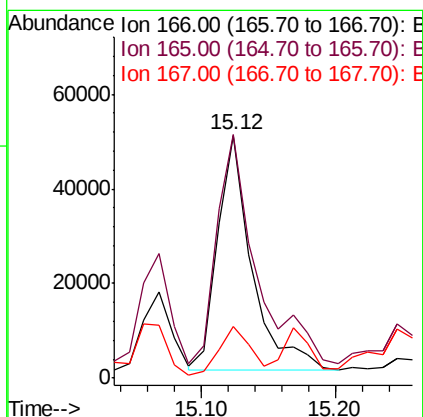
RT: 15.12 min Scan# 1404

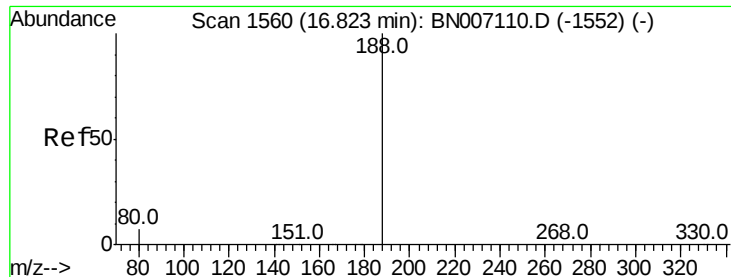
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	166	Resp:	88953
Ion Ratio	Lower	Upper	
166	100		
165	112.0	77.9	116.9
167	18.6	10.9	16.3#





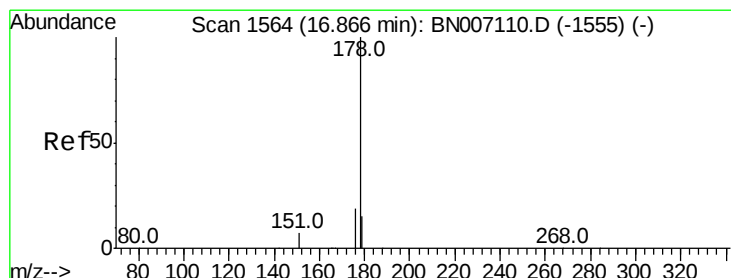
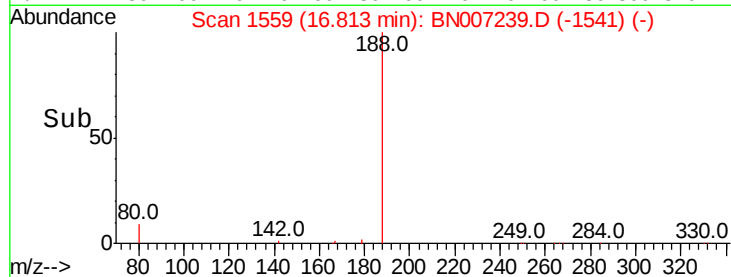
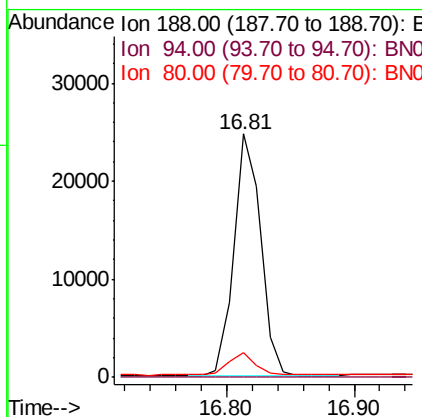
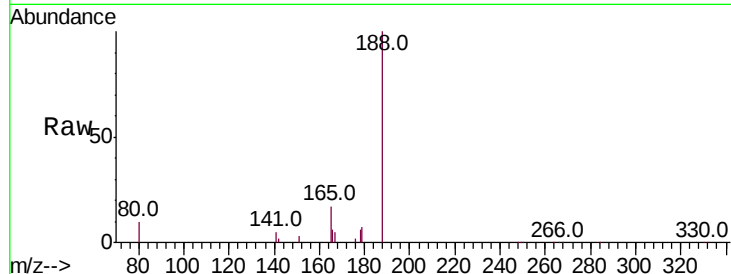
#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.81 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	7.8	11.6

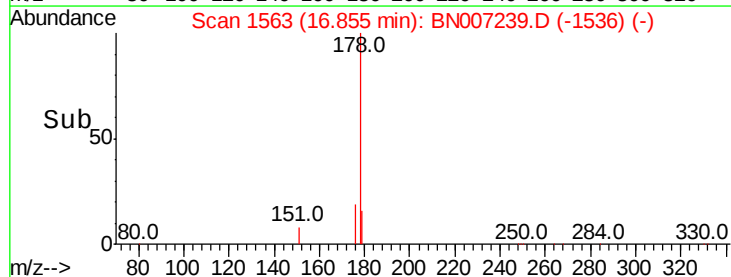
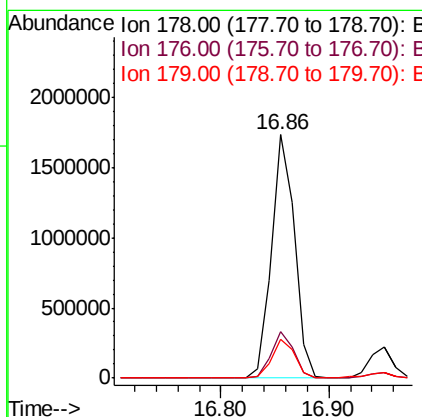
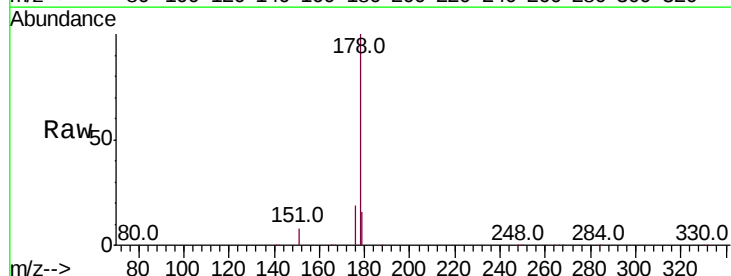
Manual Integrations
APPROVED

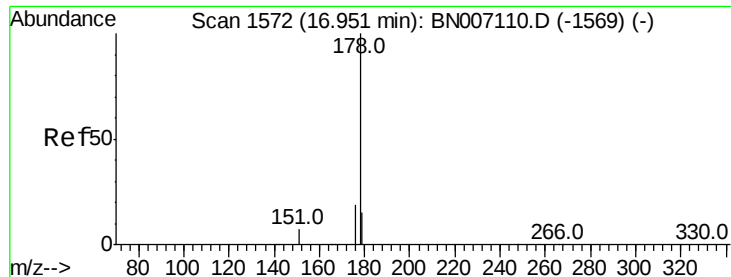
mohammad
8/20/2019 8:44:00 AM



#22
Phenanthrene
Concen: 23.839 ng
RT: 16.86 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.9	12.3	18.5





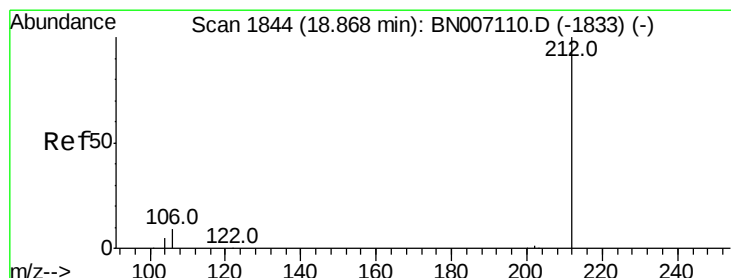
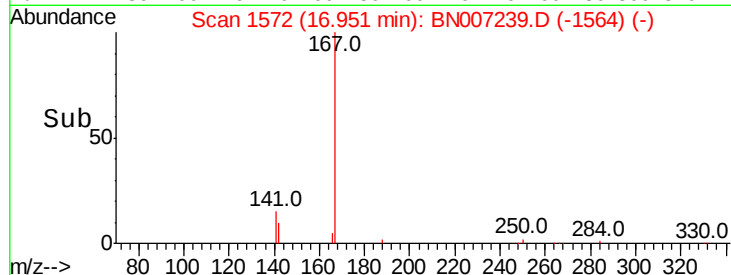
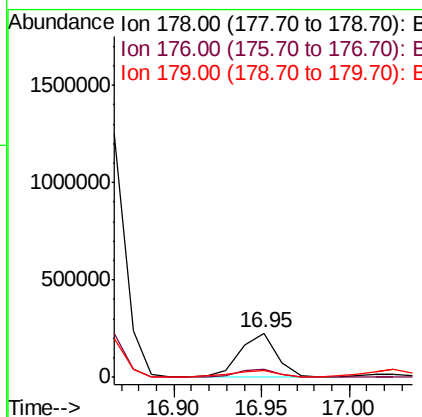
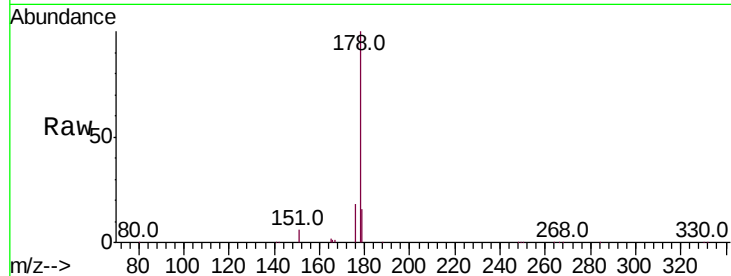
#23
 Anthracene
 Concen: 3.234 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	17.0	12.5	18.7

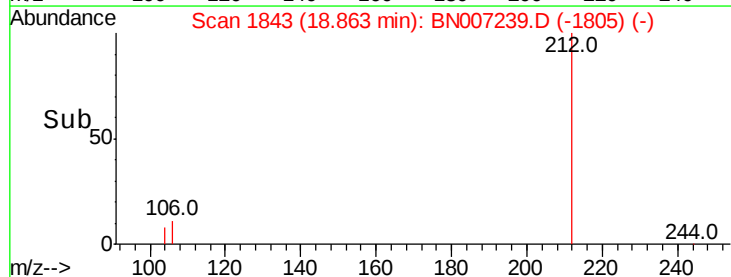
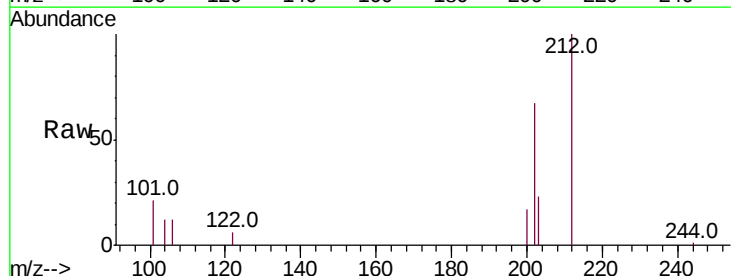
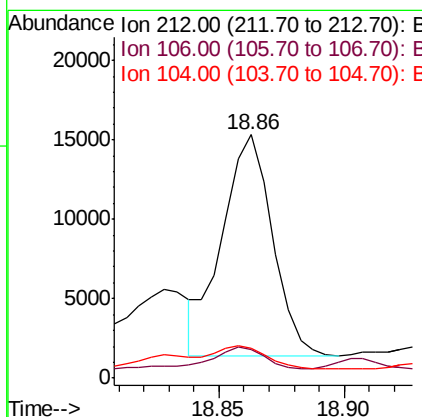
Manual Integrations
 APPROVED

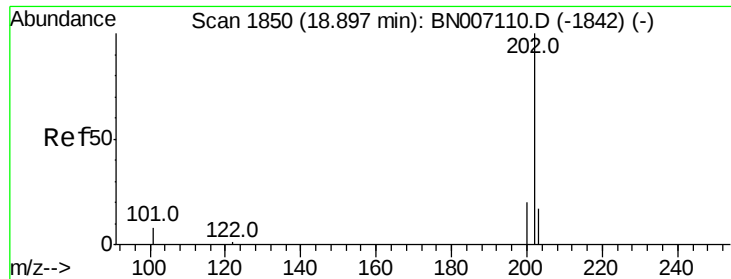
mohammad
 8/20/2019 8:44:00 AM



#24
 Fluoranthene-d10
 Concen: 0.153 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
212	100		
106	12.2	8.2	12.2
104	10.8	4.5	6.7#





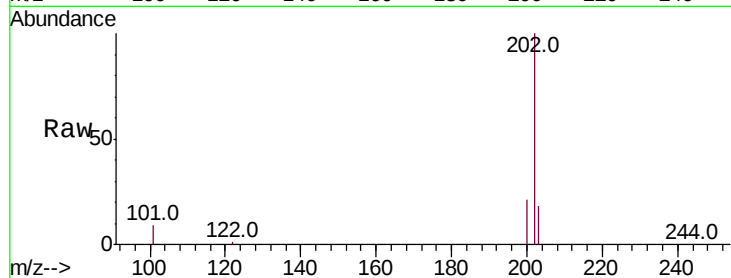
#25
 Fluoranthene
 Concen: 17.856 ng
 RT: 18.89 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.0	10.4
203	18.5	13.8	20.8

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:00 AM

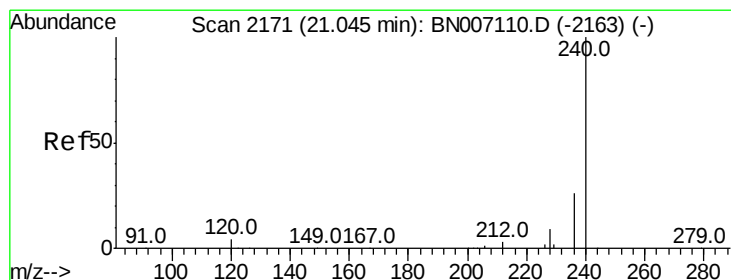
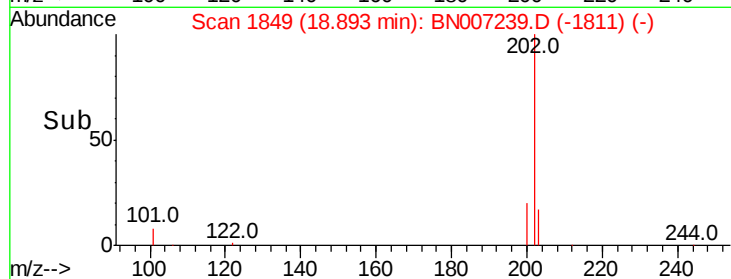
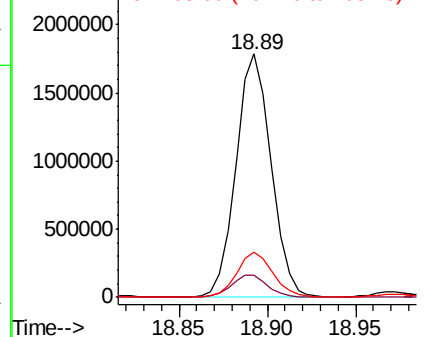


Abundance

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: 21.03 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

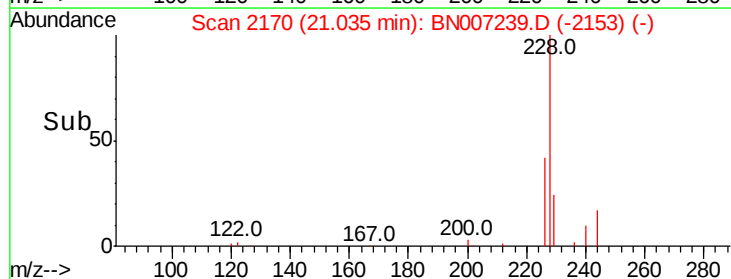
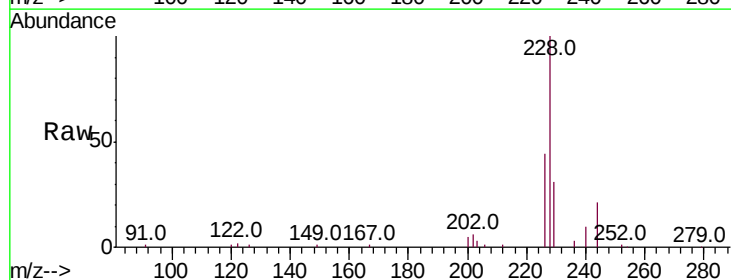
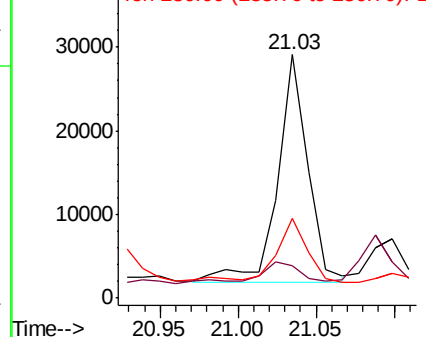
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.1	4.0	6.0#
236	32.9	21.3	31.9#

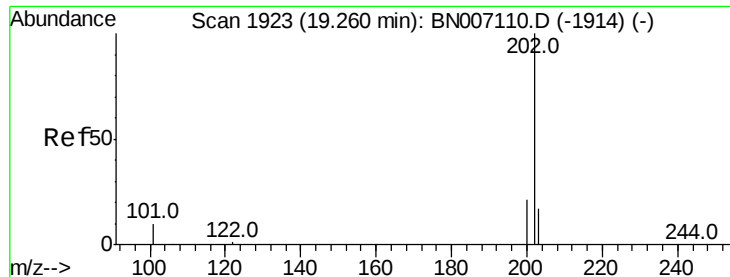
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Pvrene

Concen: 33.456 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

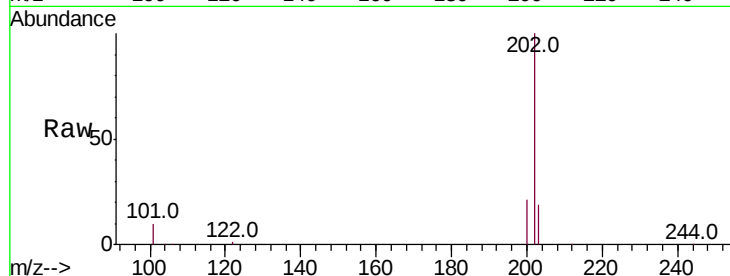
ClientSampleId :

PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.6	24.8
203	22.1	14.0	21.0#

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM

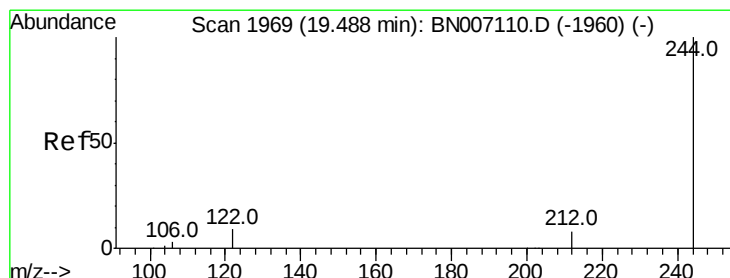
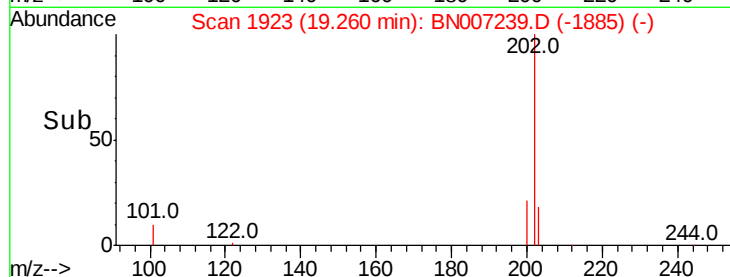
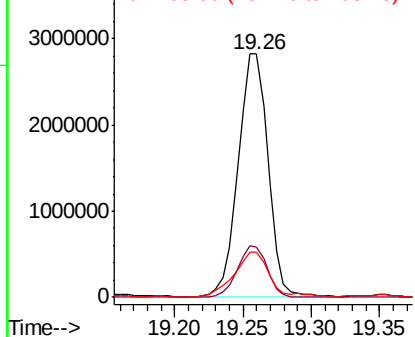


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.159 ng

RT: 19.48 min Scan# 1967

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

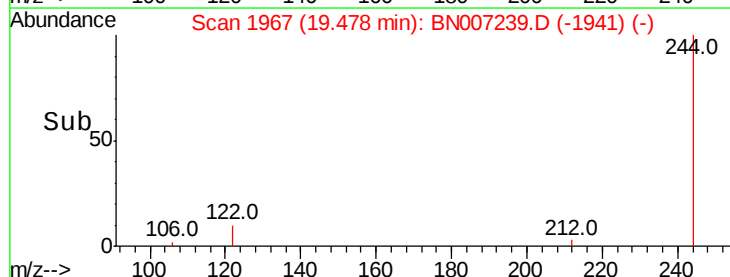
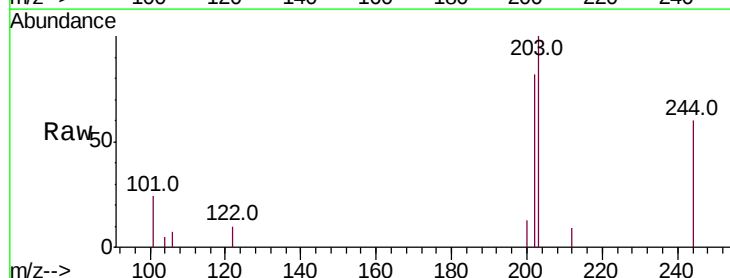
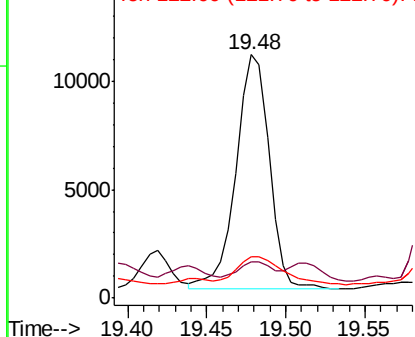
Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.8	6.2	9.2#
122	16.9	7.4	11.2#

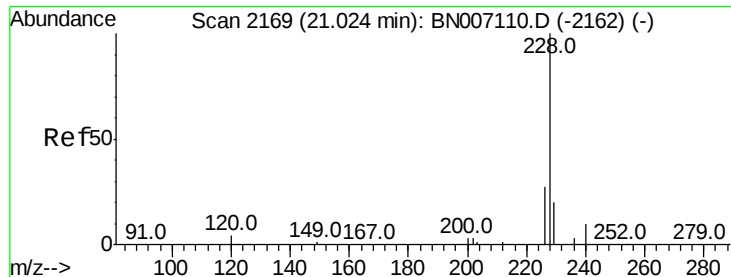
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





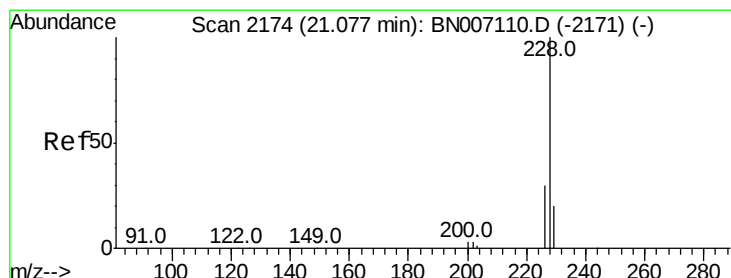
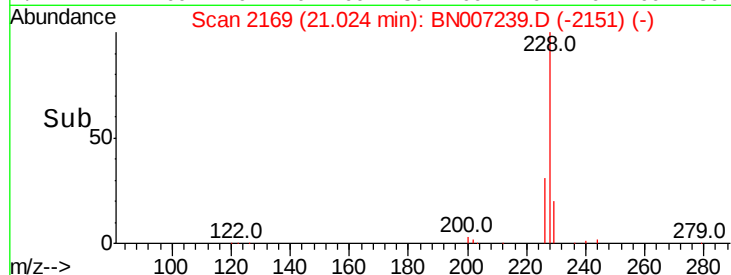
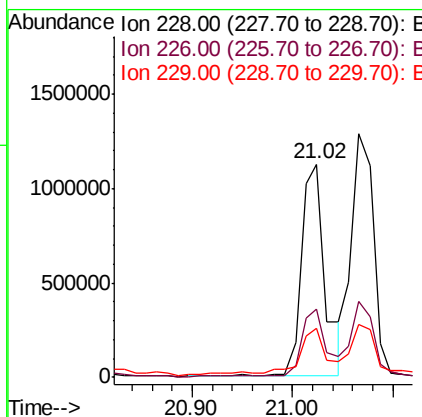
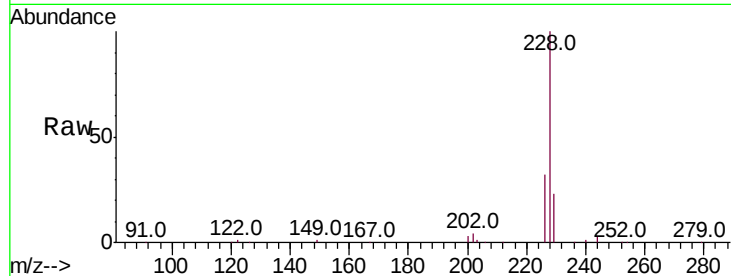
#29
Benzo(a)anthracene
Concen: 14.064 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	21.8	32.6
229	22.9	15.6	23.4

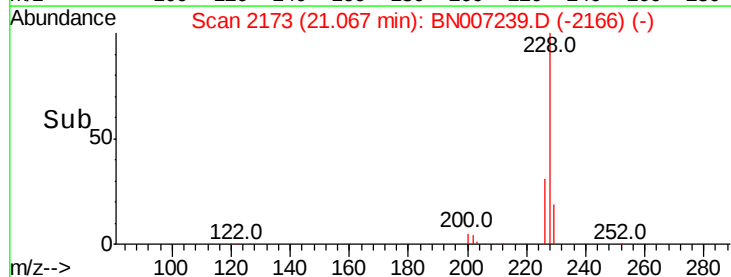
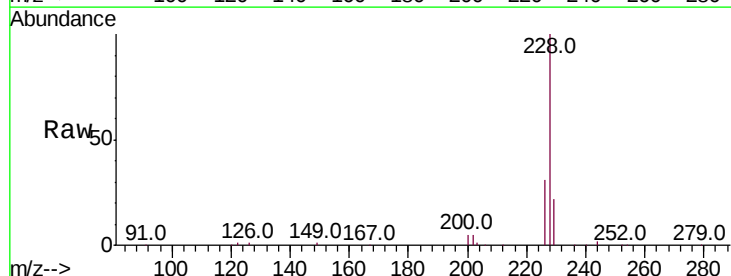
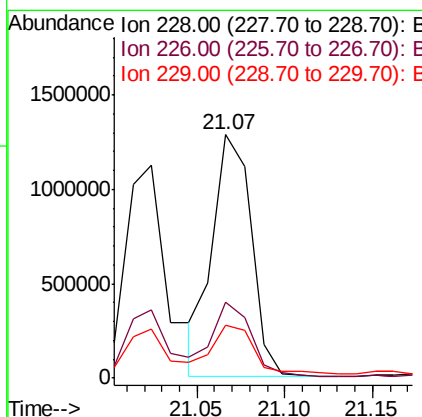
Manual Integrations
APPROVED

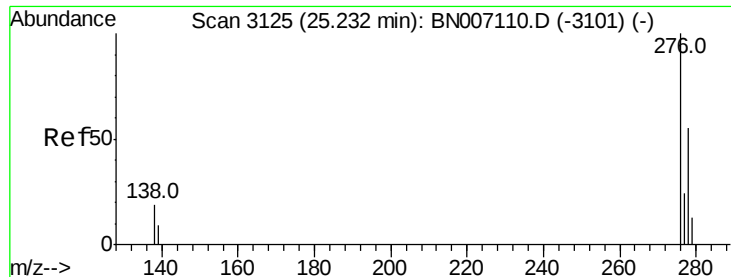
mohammad
8/20/2019 8:44:00 AM



#30
Chrysene
Concen: 15.150 ng
RT: 21.07 min Scan# 2173
Delta R.T. -0.02 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.8	35.6
229	21.6	15.7	23.5





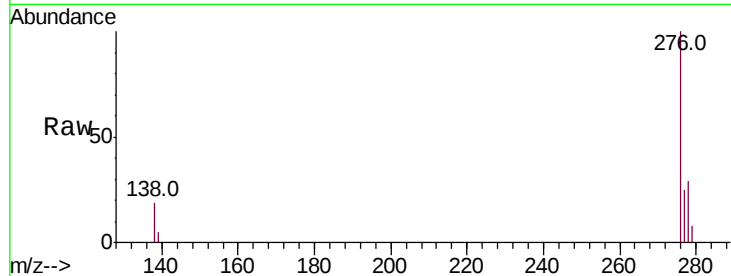
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 5.452 ng
 RT: 25.23 min Scan# 3123
 Delta R.T. -0.03 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-SW060-080819

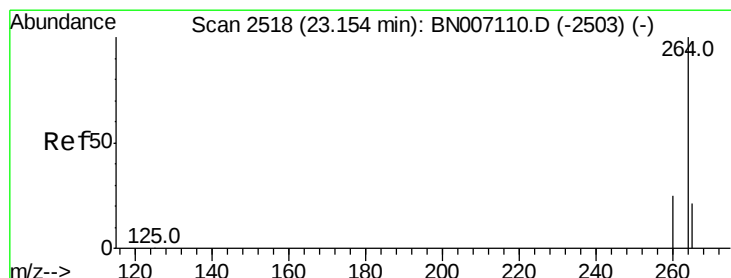
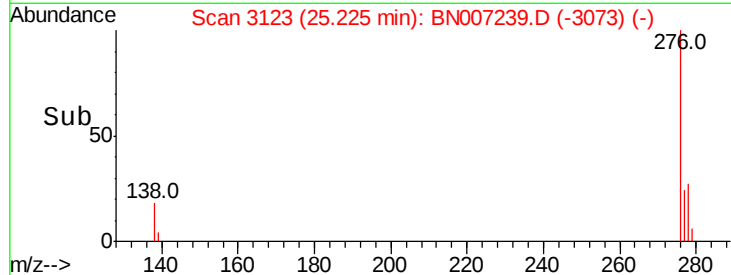
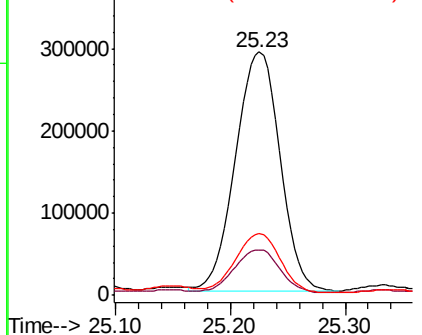
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.5	16.0	24.0
277	25.1	19.9	29.9

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:00 AM



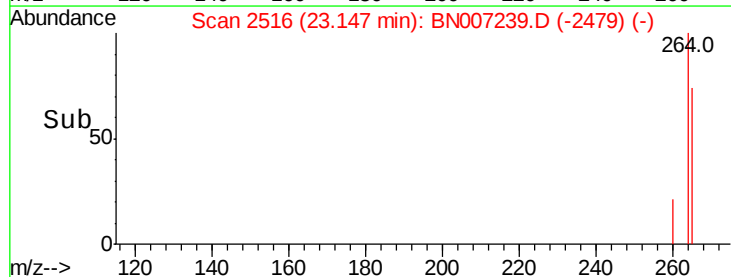
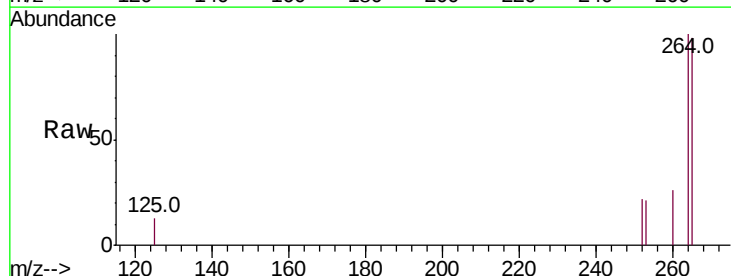
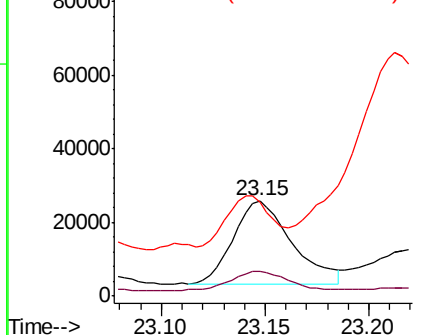
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

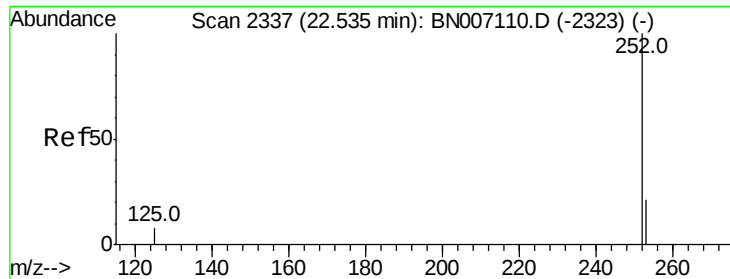


#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2516
 Delta R.T. -0.02 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.5	19.8	29.8
265	98.4	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





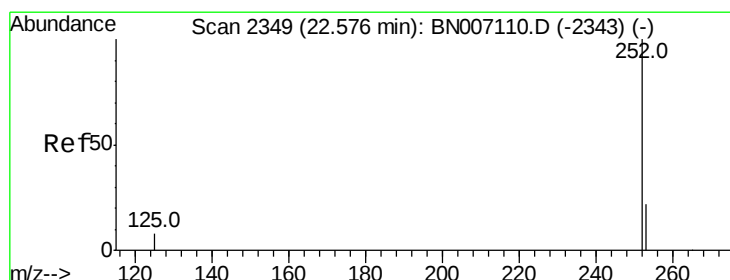
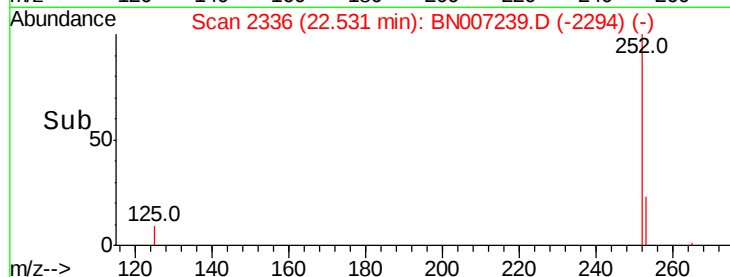
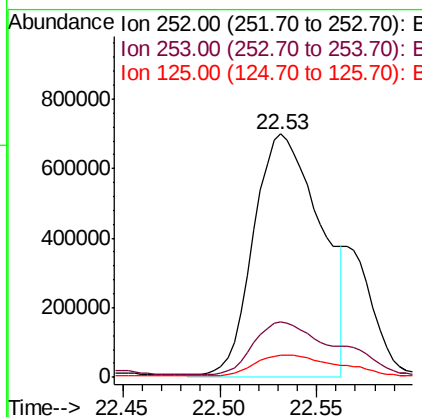
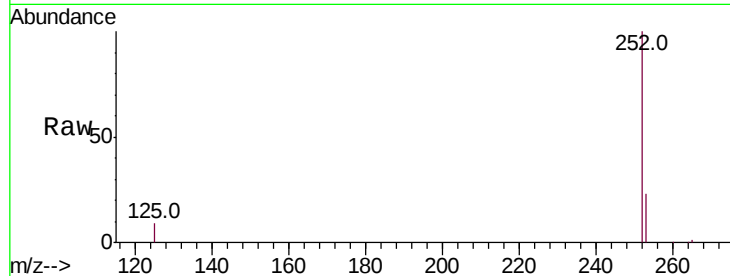
#33
Benzo(b)fluoranthene
Concen: 11.153 ng m
RT: 22.53 min Scan# 2336
Delta R.T. -0.02 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :
PST-016-SW060-080819

Tot Ion:252 Resp: 1691854
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.2
125 9.0 7.4 11.0

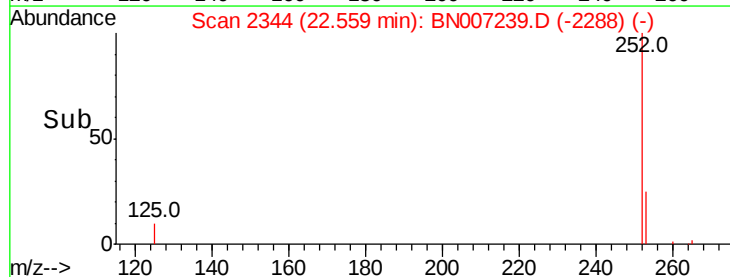
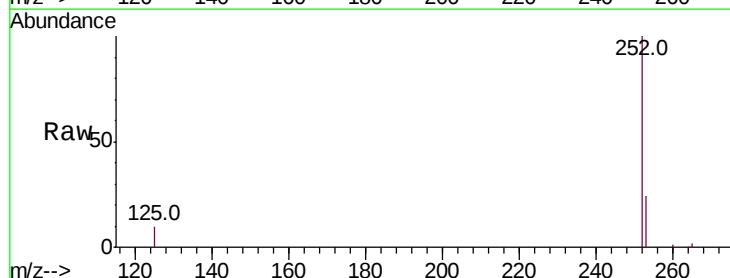
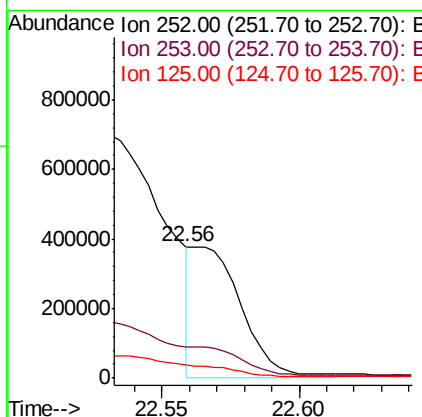
Manual Integrations
APPROVED

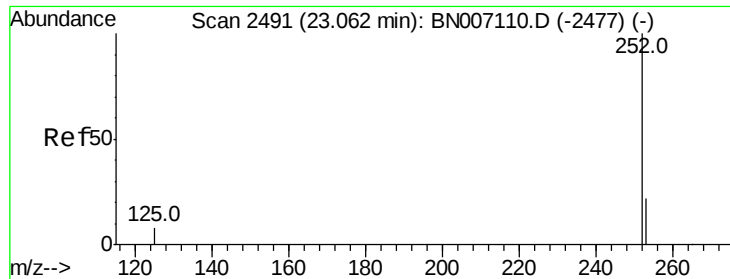
mohammad
8/20/2019 8:44:00 AM



#34
Benzo(k)fluoranthene
Concen: 3.161 ng m
RT: 22.56 min Scan# 2344
Delta R.T. -0.03 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion:252 Resp: 473593
Ion Ratio Lower Upper
252 100
253 23.6 18.1 27.1
125 9.6 7.4 11.0





#35

Benzo(a)pyrene

Concen: 10.094 ng

RT: 23.06 min Scan# 2490

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

ClientSampleId :

PST-016-SW060-080819

Tot Ion:252 Resp: 1388148

Ion Ratio Lower Upper

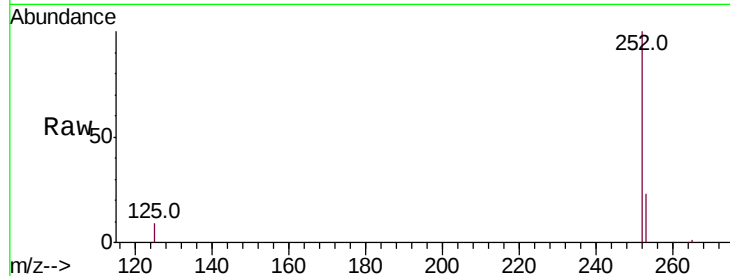
252 100

253 22.8 18.5 27.7

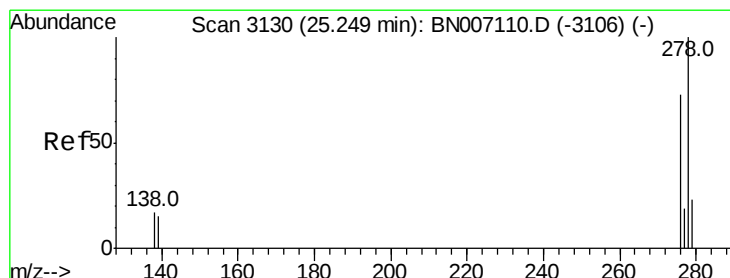
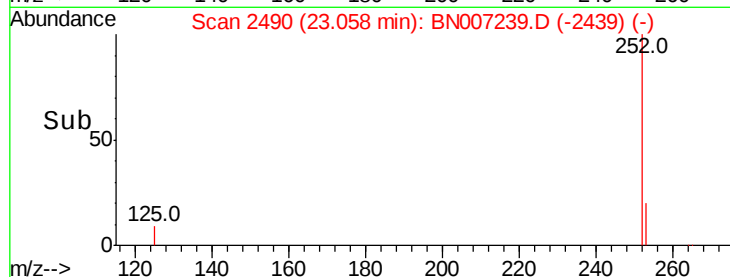
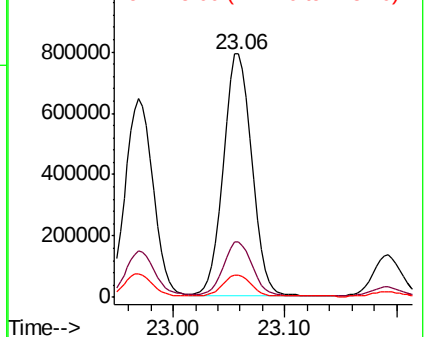
125 9.1 8.2 12.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:00 AM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Dibenzo(a,h)anthracene

Concen: 1.843 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.04 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:278 Resp: 252821

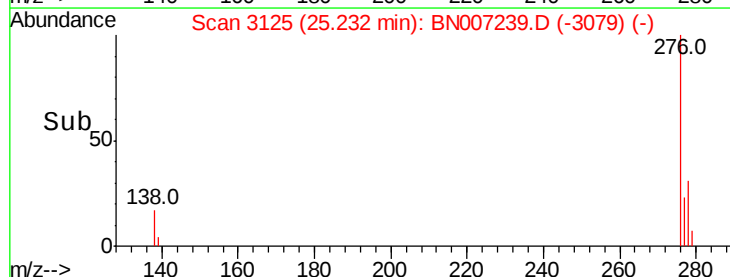
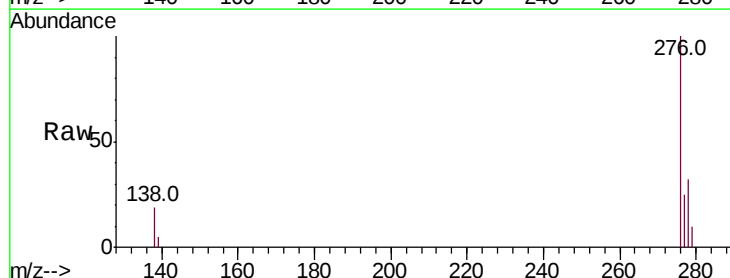
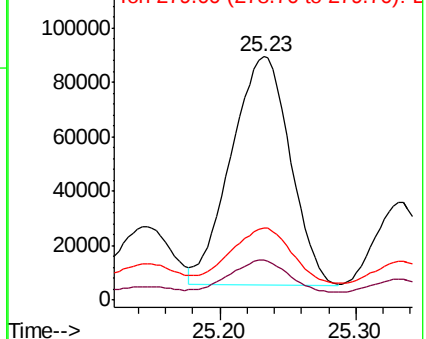
Ion Ratio Lower Upper

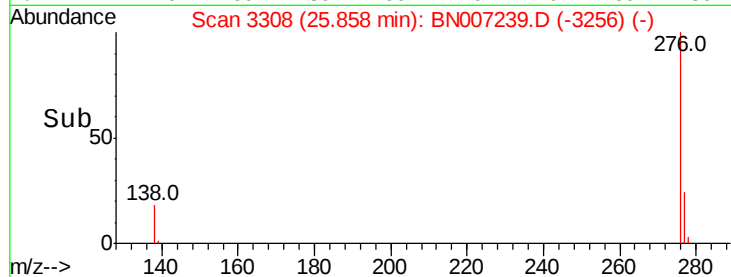
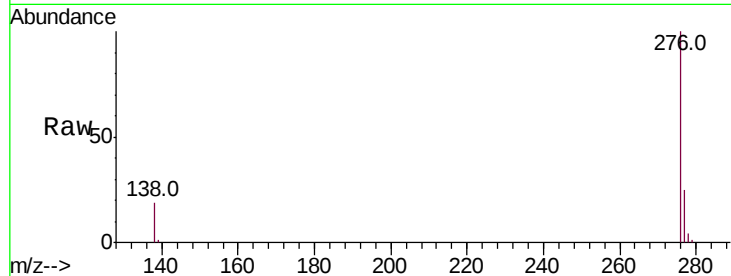
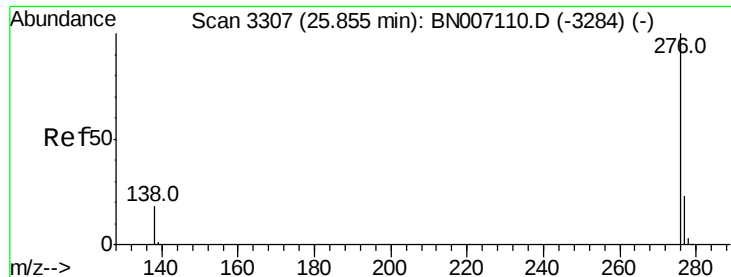
278 100

139 16.4 11.3 16.9

279 29.8 19.3 28.9#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#37
 Benzo(a,h,i)perylene
 Concen: 6.923 ng
 RT: 25.86 min Scan# 3308
 Delta R.T. -0.02 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-SW060-080819

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.8	29.8
138	18.5	14.6	22.0

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:00 AM

