

Data File : BN007201.D
Acq On : 15 Aug 2019 17:57
Operator : HP/JU
Sample : K4239-13DL 50X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM

Quant Time: Aug 16 07:12:16 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	7389	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28613	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16607	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	38264	0.40	ng	0.00
26) Chrysene-d12	21.03	240	37543	0.40	ng	-0.02
32) Perylene-d12	23.15	264	42270	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	119	0.01	ng	0.00
4) Phenol-d6	6.61	99	151	0.01	ng	0.00
7) Nitrobenzene-d5	8.56	82	119	0.01	ng	0.00
10) 2-Methylnaphthalene-d10	11.88	152	14	0.00	ng	0.09
13) 2,4,6-Tribromophenol	15.57	330	43	0.00	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	175	0.01	ng	0.00
24) Fluoranthene-d10	18.87	212	570	0.00	ng	0.00
28) Terphenyl-d14	19.48	244	1202	0.01	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	7611	0.095	ng	96
11) 2-Methylnaphthalene	11.86	142	10425	0.183	ng	97
15) Acenaphthylene	13.79	152	41867	0.482	ng	# 96
16) Acenaphthene	14.13	154	15303	0.275	ng	91
17) Fluorene	15.12	166	28684	0.345	ng	# 90
22) Phenanthrene	16.87	178	856077	7.465	ng	100
23) Anthracene	16.95	178	89562	0.855	ng	98
25) Fluoranthene	18.89	202	866383	5.906	ng	98
27) Pyrene	19.26	202	1366239	10.377	ng	97
29) Benzo(a)anthracene	21.02	228	574528	4.185	ng	95
30) Chrysene	21.08	228	644954	4.835	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	244616	1.664	ng	99
33) Benzo(b)fluoranthene	22.53	252	530701	3.661	ng	100
34) Benzo(k)fluoranthene	22.57	252	142382m	0.995	ng	
35) Benzo(a)pyrene	23.06	252	427982	3.257	ng	98
36) Dibenzo(a,h)anthracene	25.24	278	77666	0.592	ng	# 91
37) Benzo(g,h,i)perylene	25.86	276	299994	2.224	ng	99

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

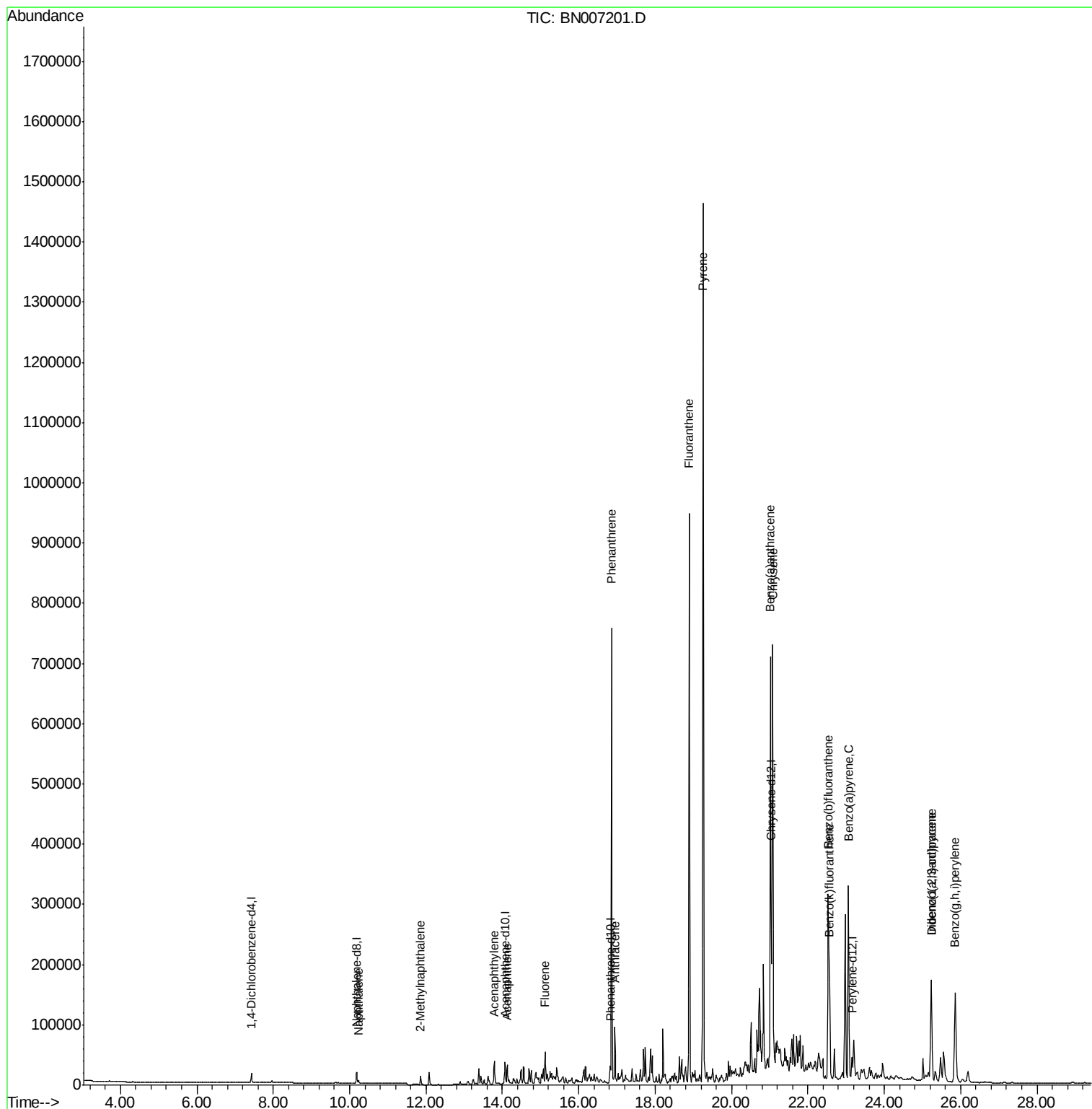
Data File : BN007201.D
Acq On : 15 Aug 2019 17:57
Operator : HP/JU
Sample : K4239-13DL 50X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM

Quant Time: Aug 16 07:12:16 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

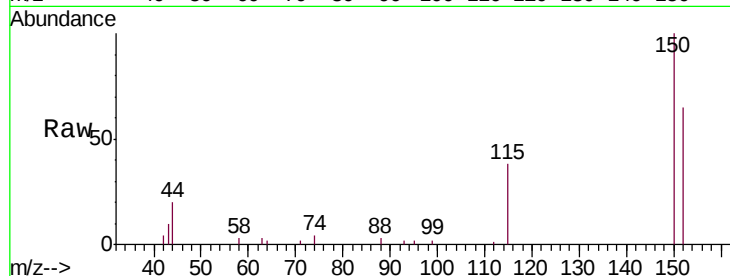
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

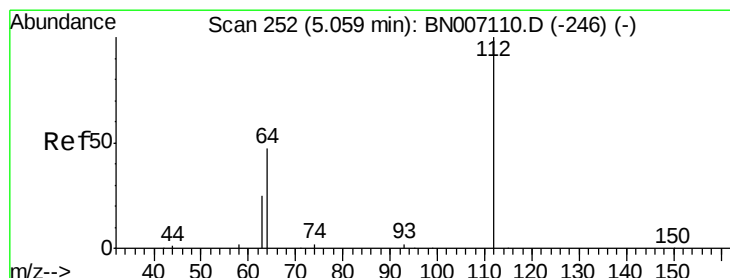
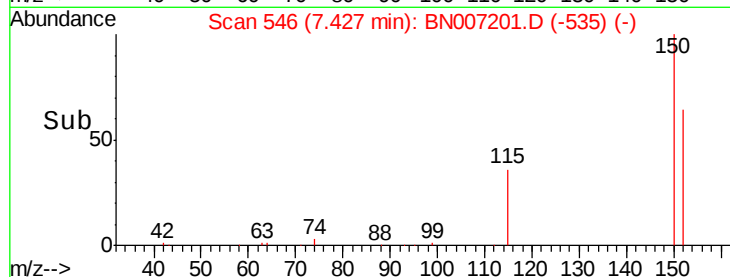
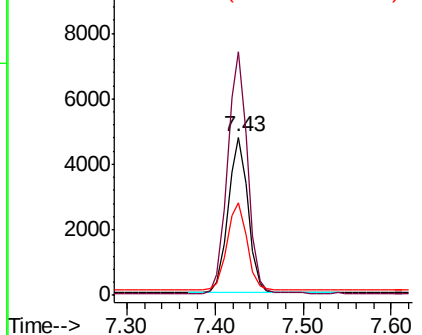
Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.1	121.7	182.5
115	58.4	46.2	69.4

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



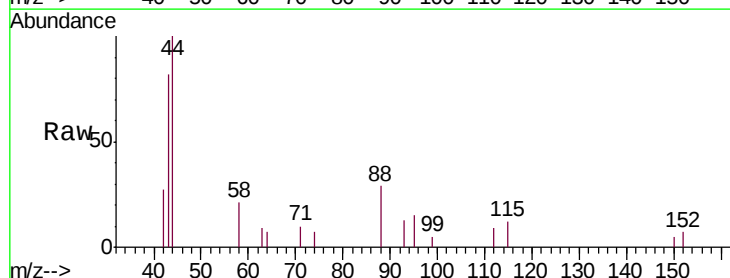
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



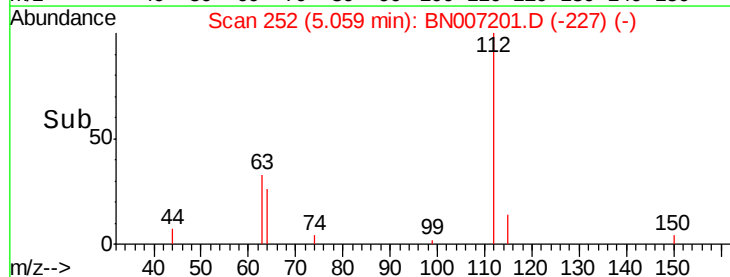
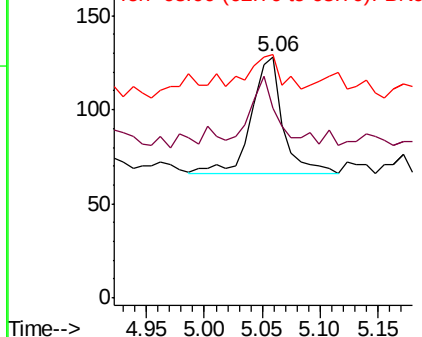
#3

2-Fluorophenol
Concen: 0.007 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	37.0	42.6	63.8#
63	40.3	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: 0.007 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

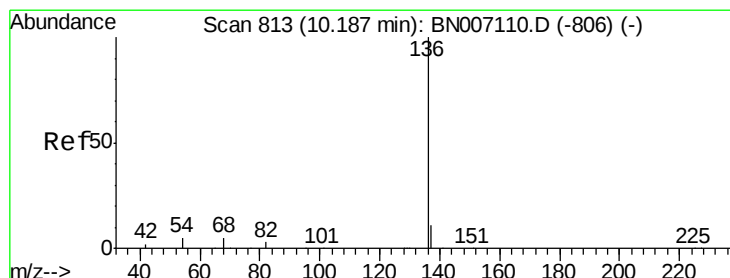
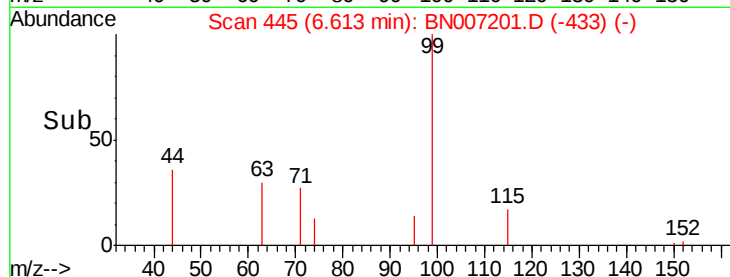
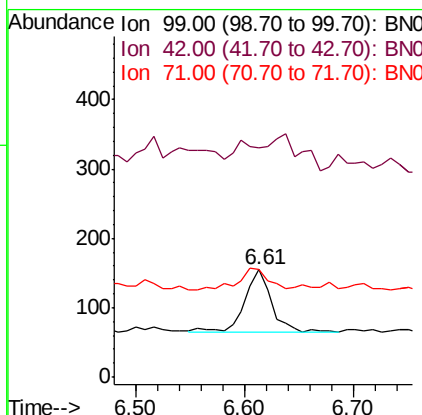
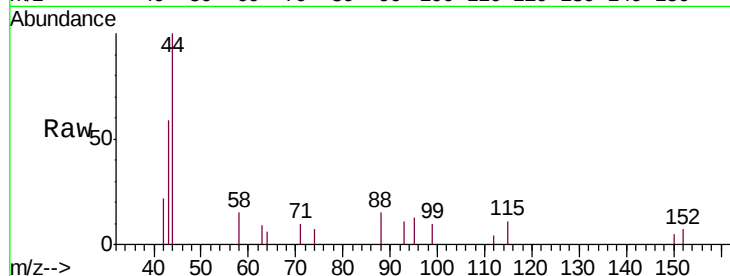
ClientSampleId :

PST-034-B231-080519DL

Tgt Ion:	99	Resp:	151
Ion	Ratio	Lower	Upper
99	100		
42	29.1	15.8	23.6#
71	43.7	27.0	40.4#

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



#6

Naphthalene-d8

Concen: 0.400 ng

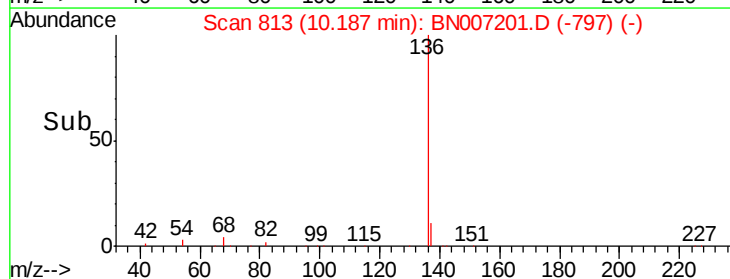
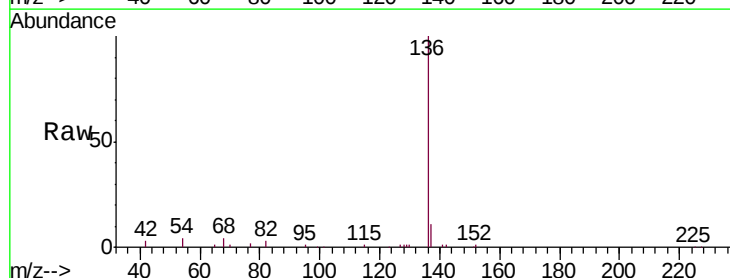
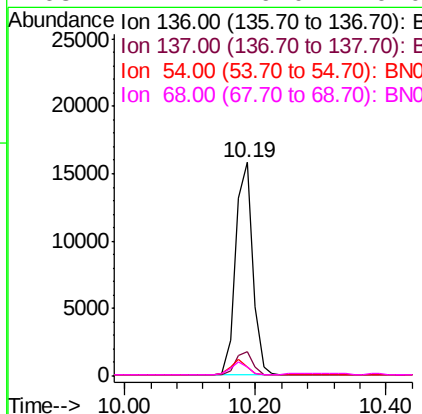
RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Tgt Ion:	136	Resp:	28613
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.4	14.0
54	4.3	6.6	9.8#
68	4.4	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.005 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

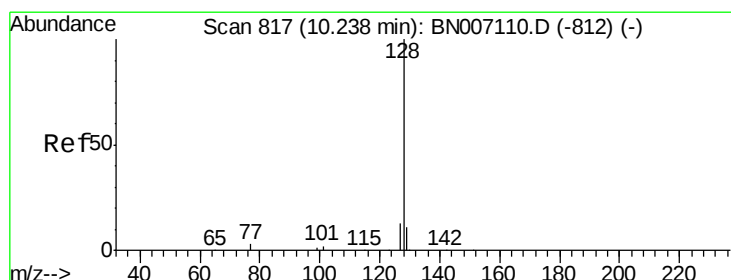
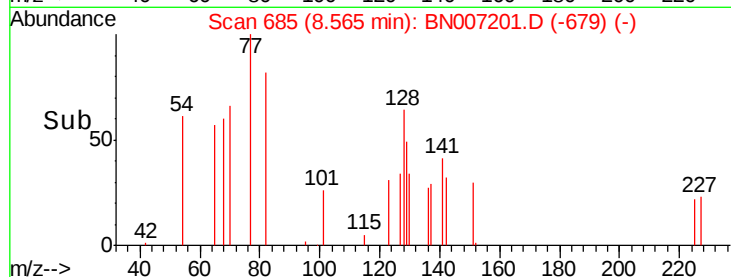
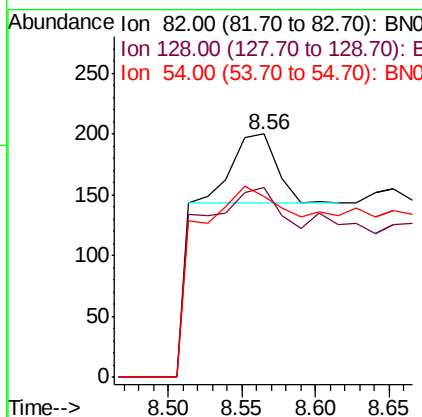
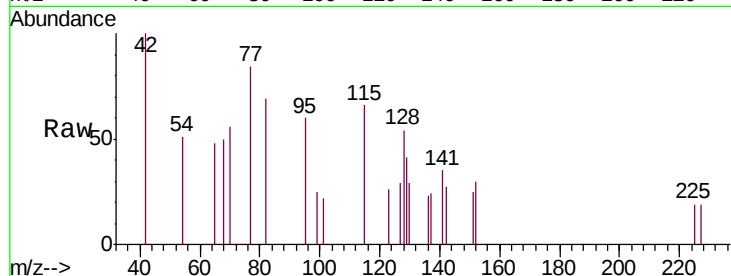
ClientSampleId :

PST-034-B231-080519DL

Tgt Ion:	82	Resp:	119
Ion Ratio	Lower	Upper	
82	100		
128	78.0	34.6	51.8#
54	74.5	36.2	54.4#

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



#8

Naphthalene

Concen: 0.095 ng

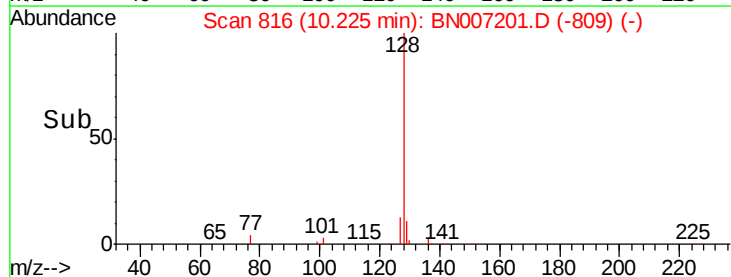
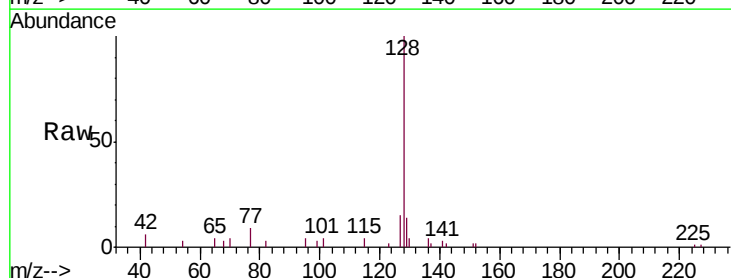
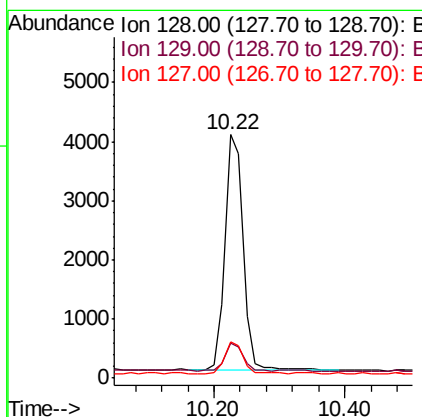
RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Tgt Ion:	128	Resp:	7611
Ion Ratio	Lower	Upper	
128	100		
129	14.1	9.4	14.2
127	14.7	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.000 ng

RT: 11.88 min Scan# 1002

Delta R.T. 0.09 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

PST-034-B231-080519DL

Tgt Ion:152 Resp: 14

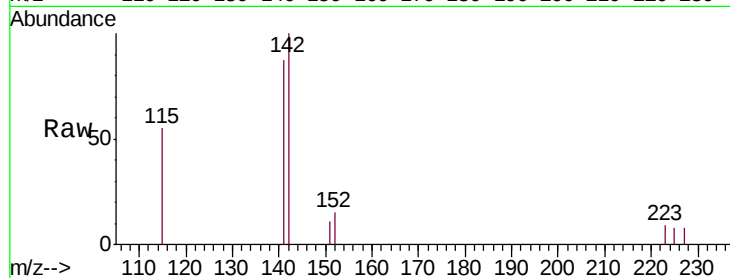
Ion Ratio Lower Upper

152 100

151 21.4 15.5 23.3

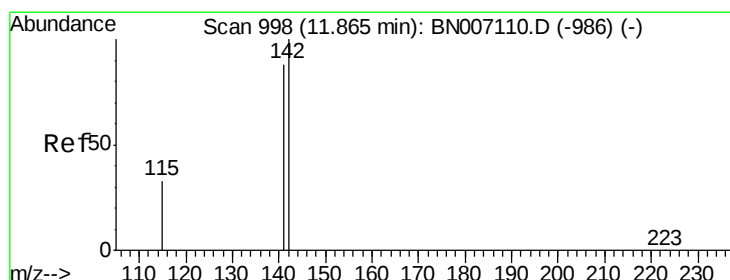
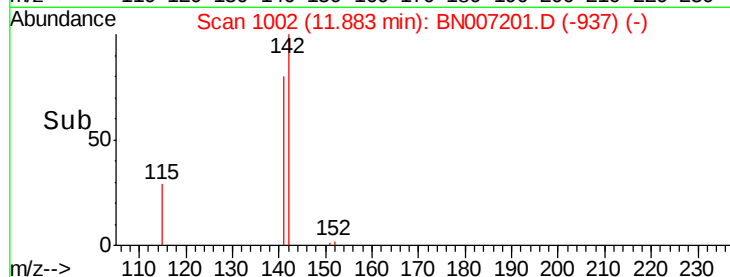
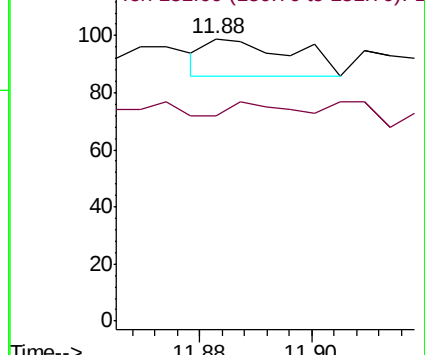
Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.183 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

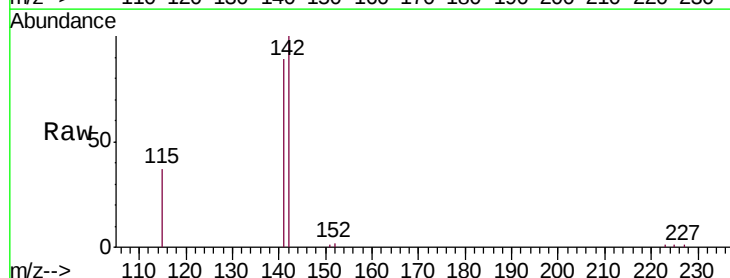
Tgt Ion:142 Resp: 10425

Ion Ratio Lower Upper

142 100

141 88.9 69.0 103.6

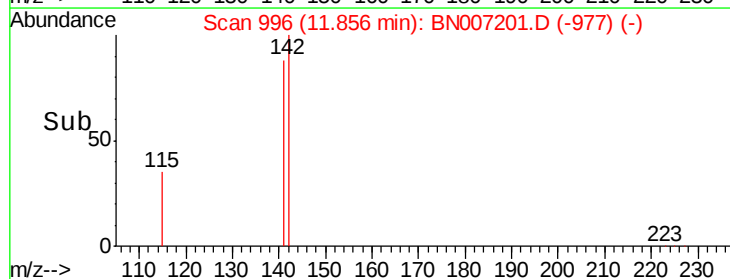
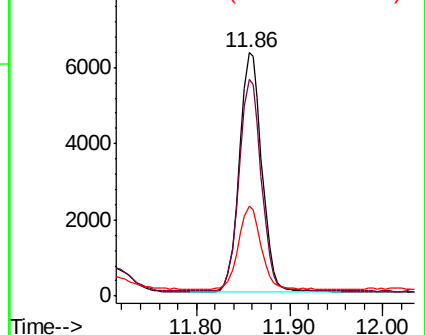
115 36.9 27.1 40.7



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





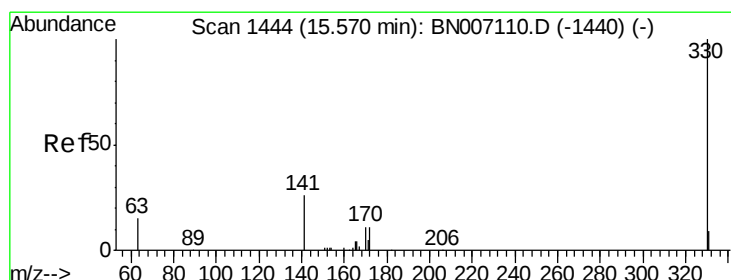
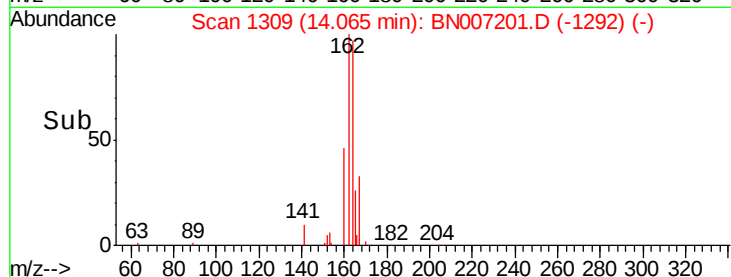
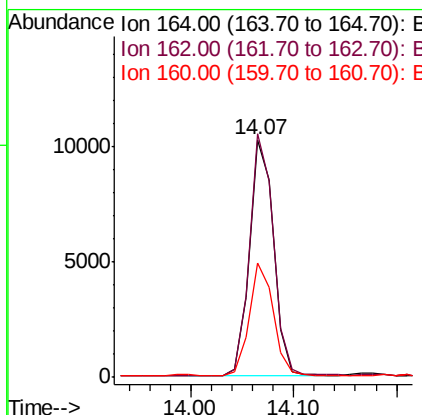
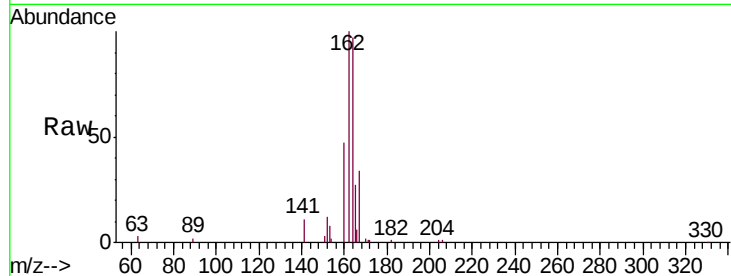
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.07 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	16607		
162	102.6	82.2	123.4	
160	48.1	38.3	57.5	

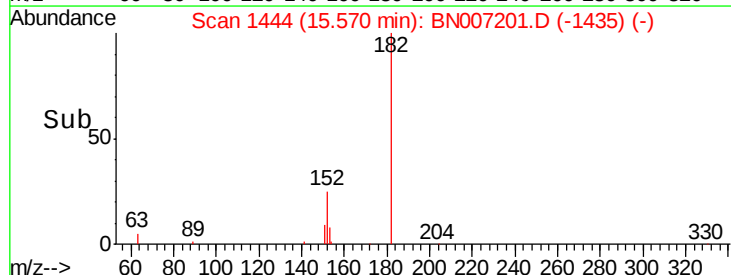
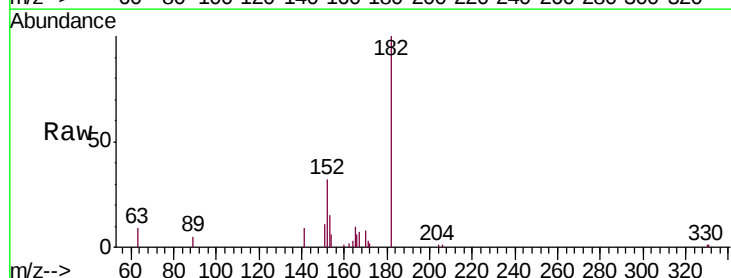
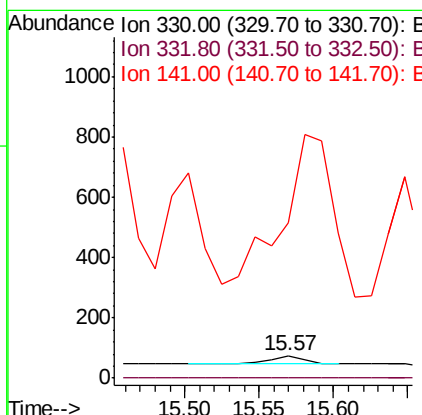
Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



#13
2,4,6-Tribromophenol
Concen: 0.005 ng
RT: 15.57 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	43		
332	0.0	0.0	0.0	
141	3016.3	33.6	50.4#	





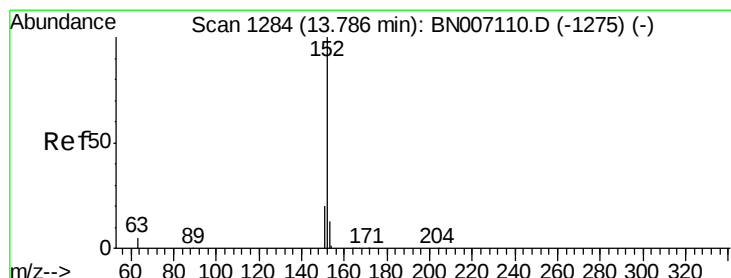
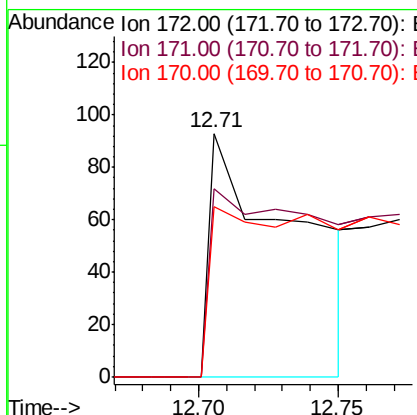
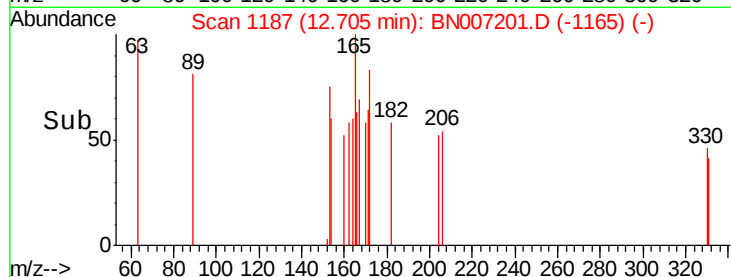
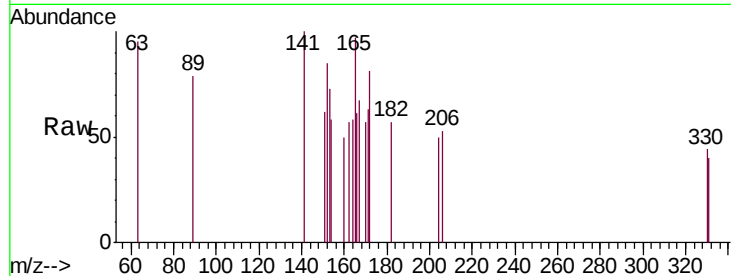
#14
2-Fluorobiphenyl
Concen: 0.007 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	77.4	26.3	39.5#
170	69.9	17.0	25.4#

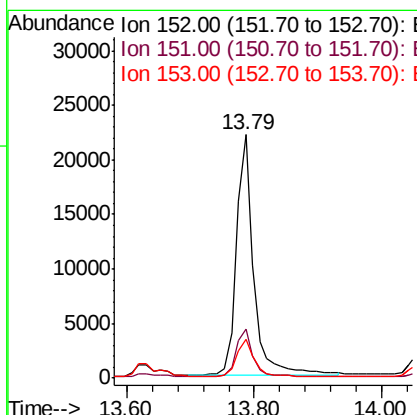
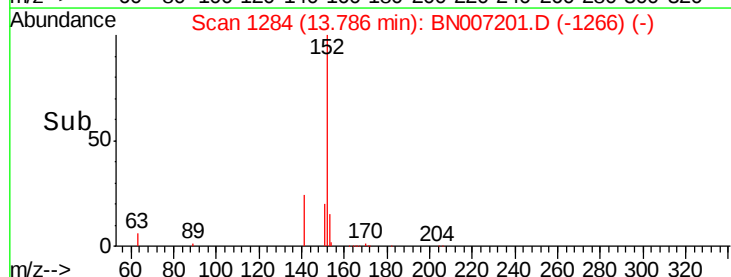
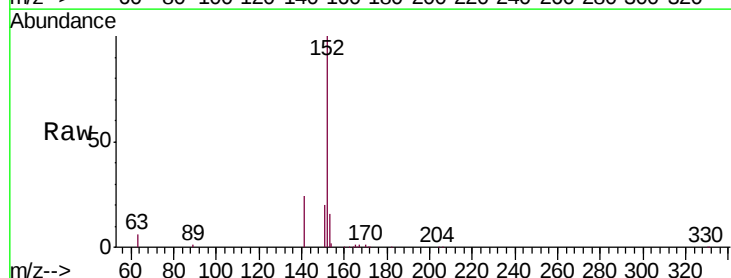
Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



#15
Acenaphthylene
Concen: 0.482 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	16.0	10.4	15.6#





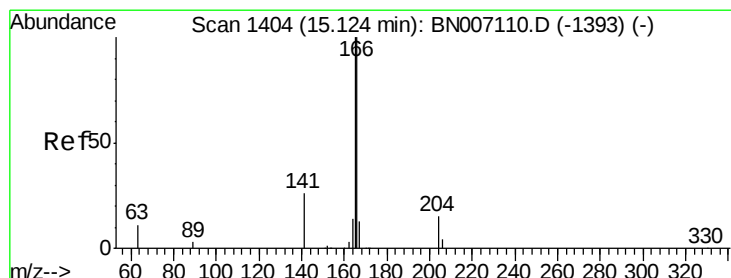
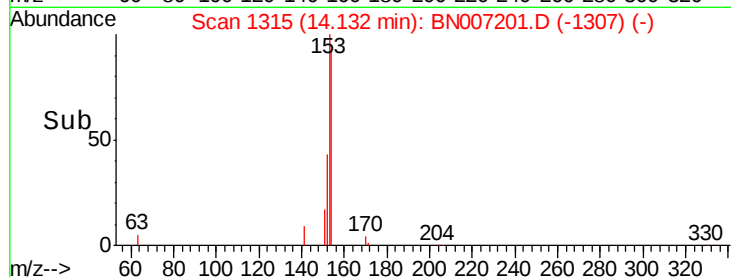
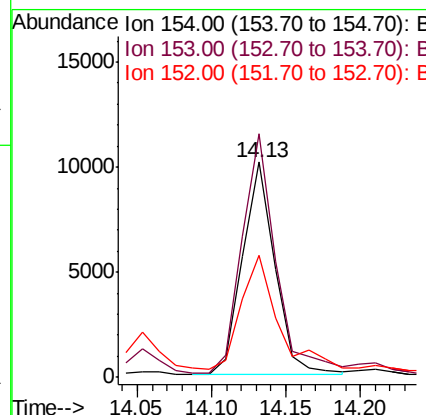
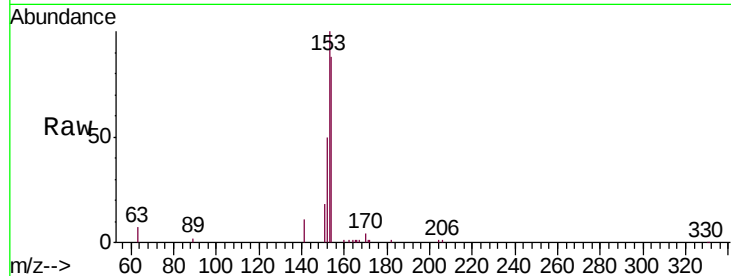
#16
Acenaphthene
Concen: 0.275 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Lower	Upper
154	100		
153	122.9	89.5	134.3
152	59.7	44.8	67.2

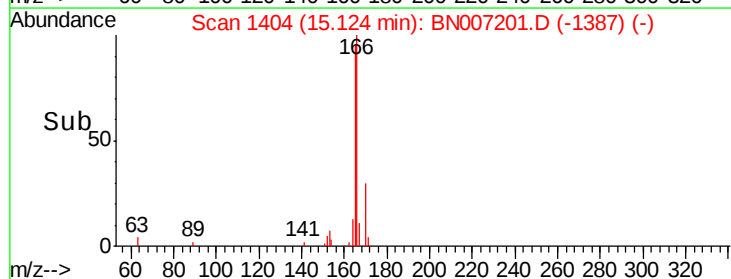
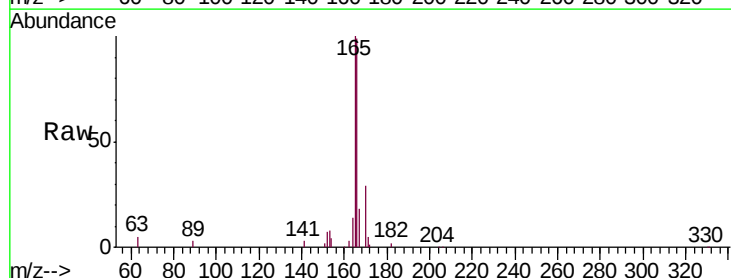
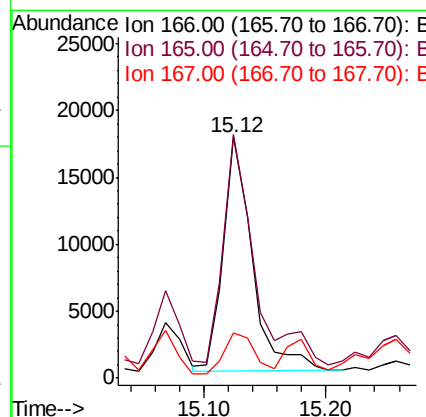
Manual Integrations
APPROVED

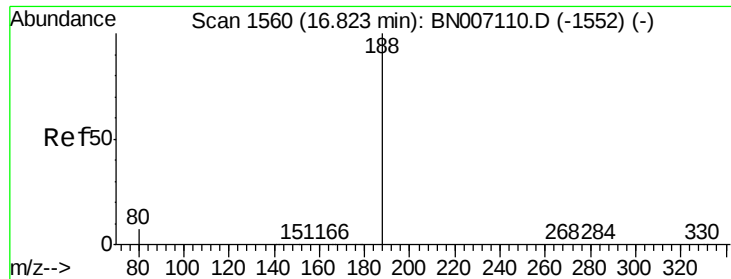
Jagrut
8/16/2019 6:11:33 PM



#17
Fluorene
Concen: 0.345 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	107.3	77.9	116.9
167	18.3	10.9	16.3#





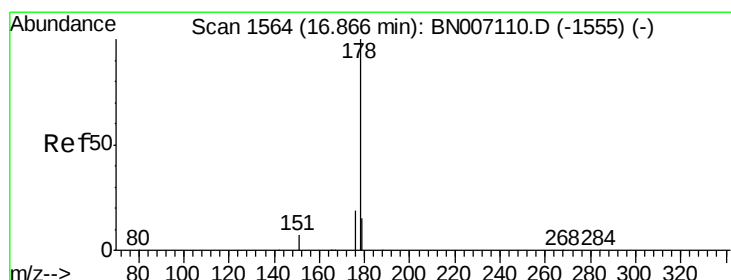
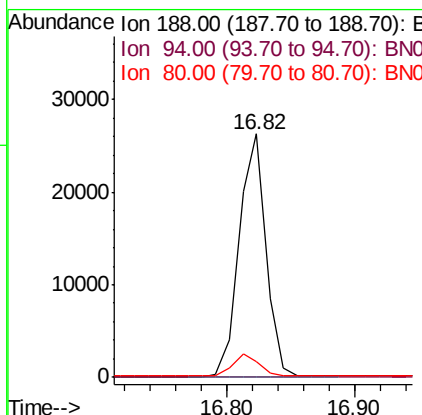
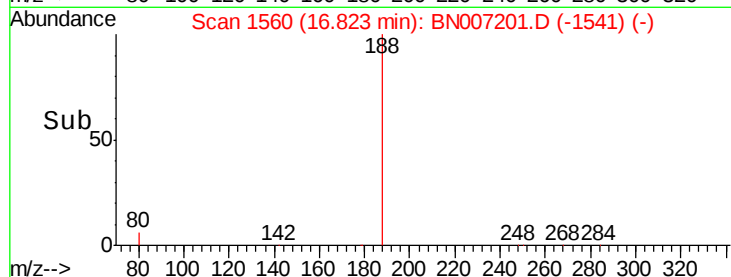
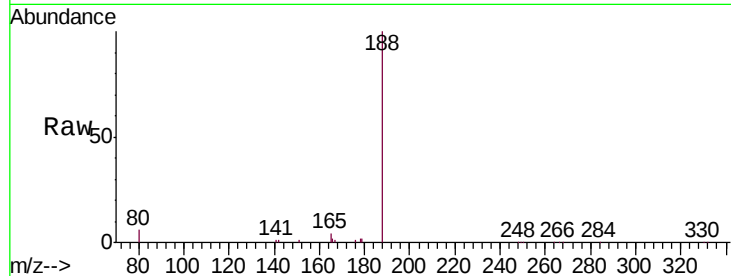
#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	6.3	7.8	11.6#

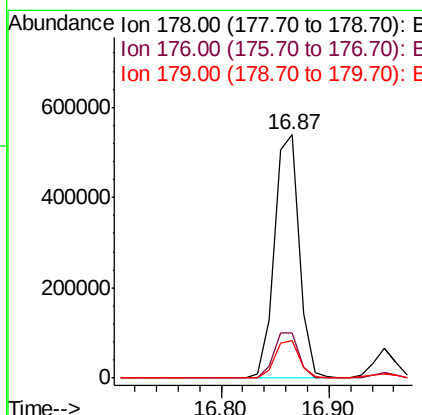
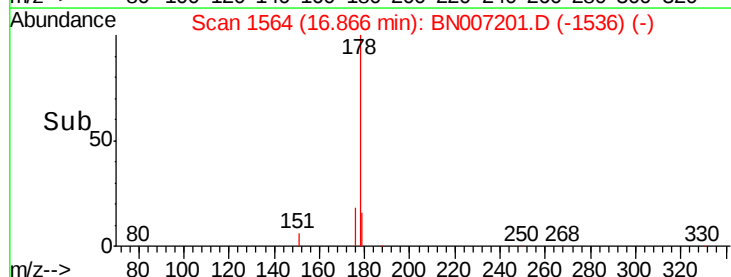
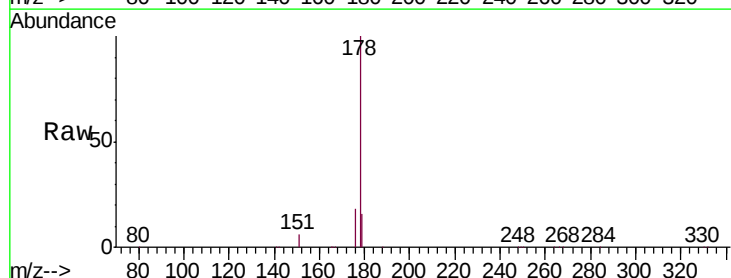
Manual Integrations
APPROVED

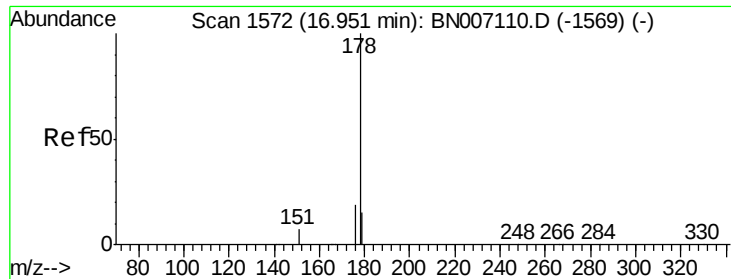
Jagrut
8/16/2019 6:11:33 PM



#22
Phenanthrene
Concen: 7.465 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.9	15.2	22.8
179	15.5	12.3	18.5





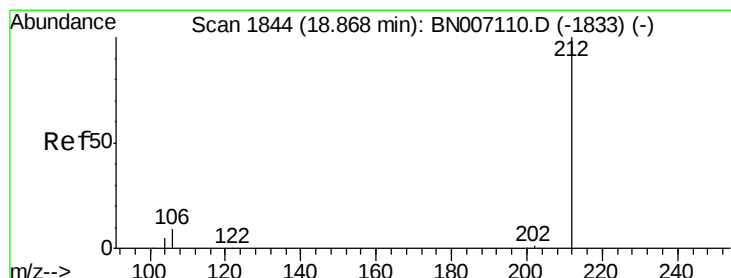
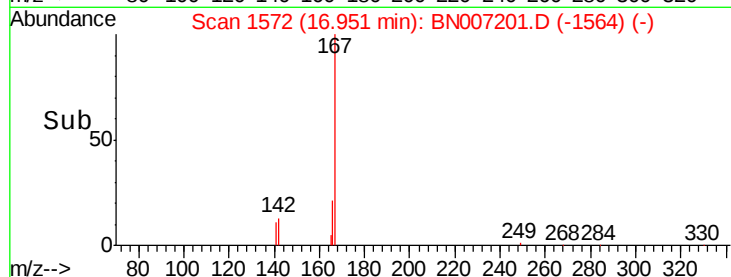
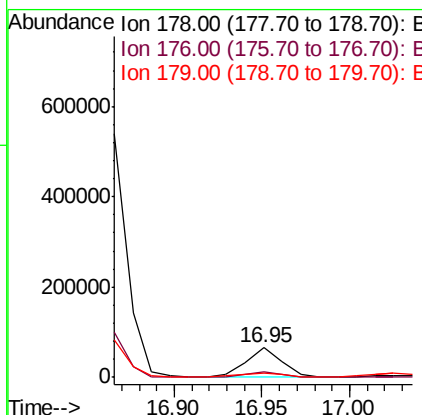
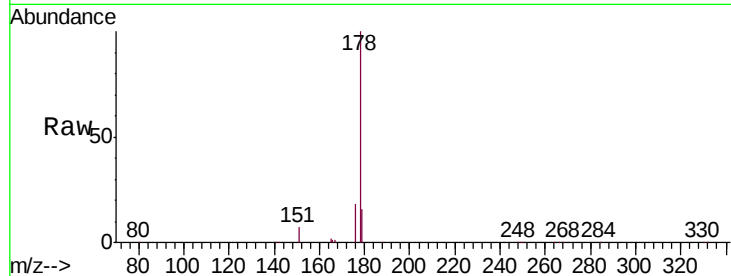
#23
 Anthracene
 Concen: 0.855 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B231-080519DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	17.5	12.5	18.7

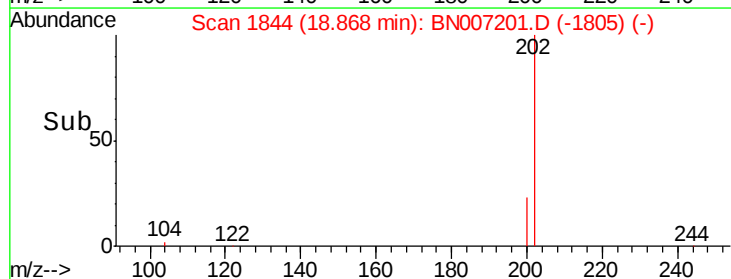
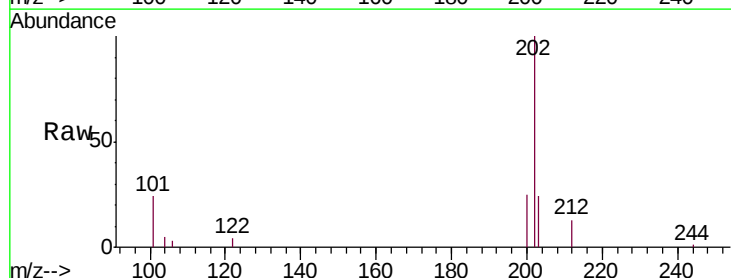
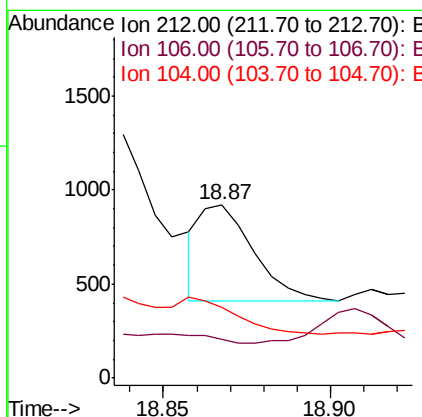
Manual Integrations
 APPROVED

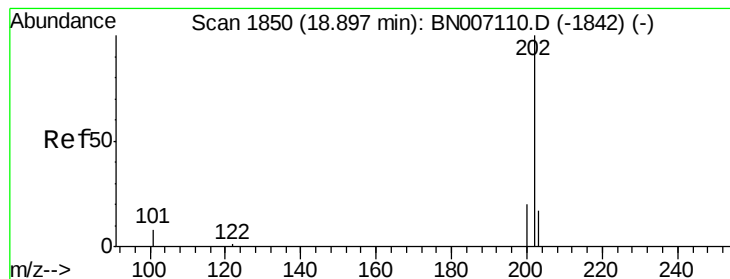
Jagrut
 8/16/2019 6:11:33 PM



#24
 Fluoranthene-d10
 Concen: 0.004 ng
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Lower	Upper
212	100		
106	0.0	8.2	12.2#
104	0.0	4.5	6.7#





#25

Fluoranthene

Concen: 5.906 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

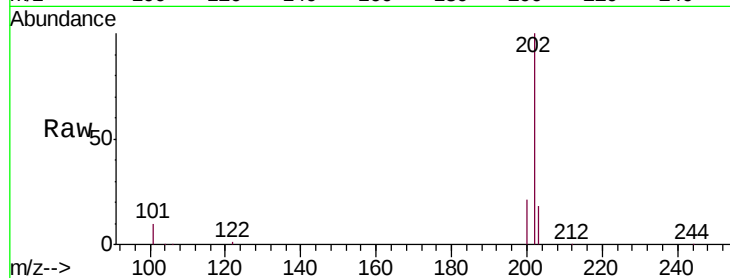
ClientSampleId :

PST-034-B231-080519DL

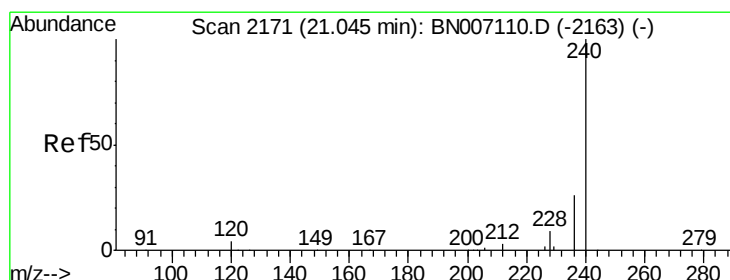
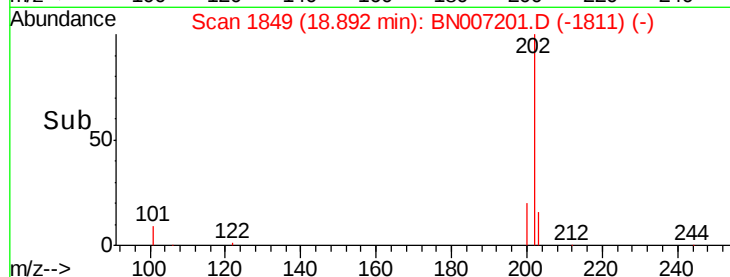
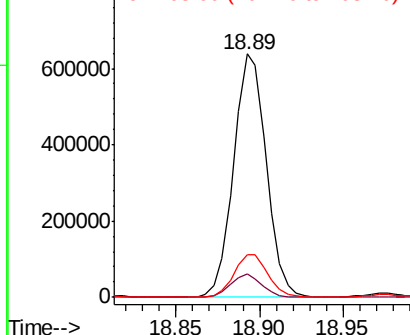
Tgt Ion:	202	Resp:	866383
Ion Ratio	Lower	Upper	
202	100		
101	9.1	7.0	10.4
203	18.1	13.8	20.8

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



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

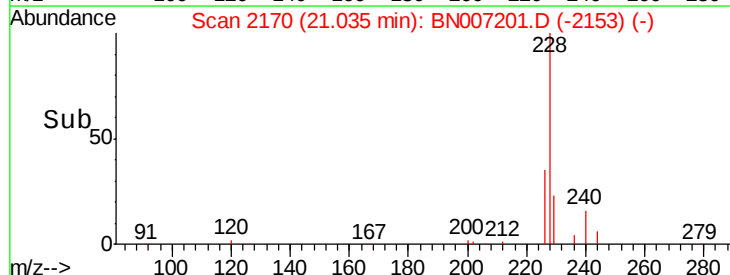
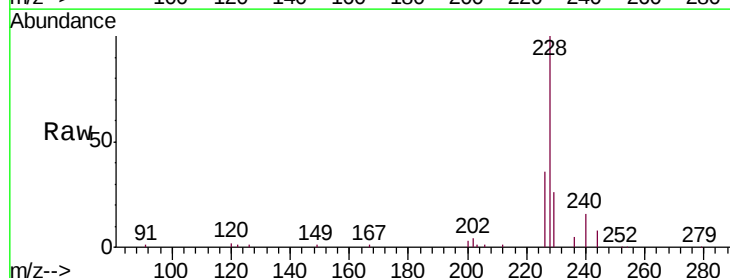
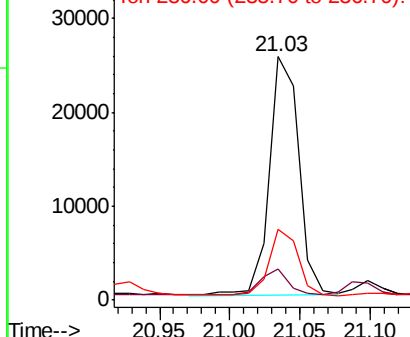
Delta R.T. -0.02 min

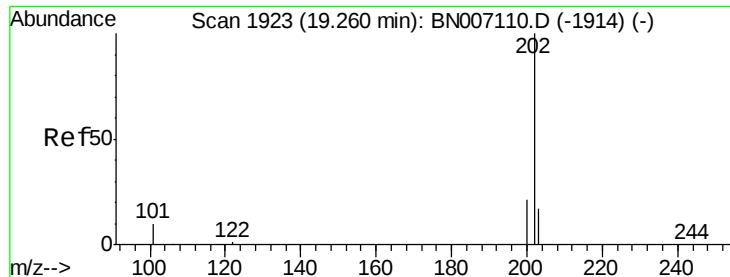
Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Tgt Ion:	240	Resp:	37543
Ion Ratio	Lower	Upper	
240	100		
120	12.9	4.0	6.0#
236	29.2	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





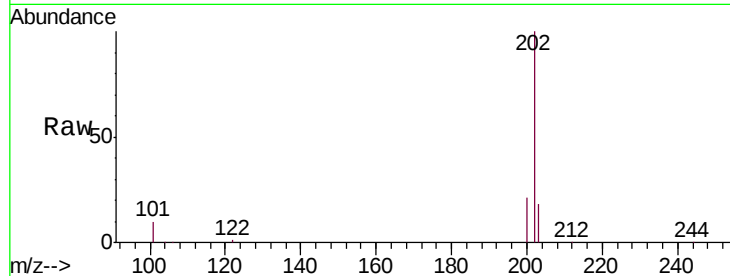
#27
Pyrene
Concen: 10.377 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	20.6	14.0	21.0

Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM

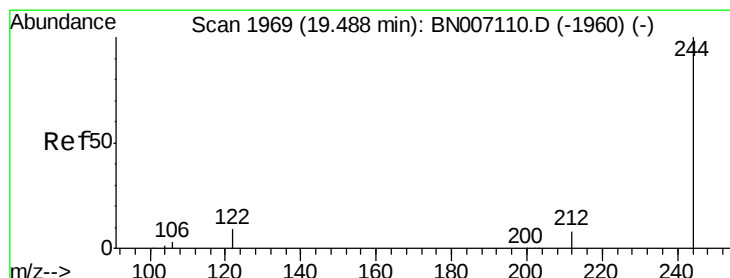
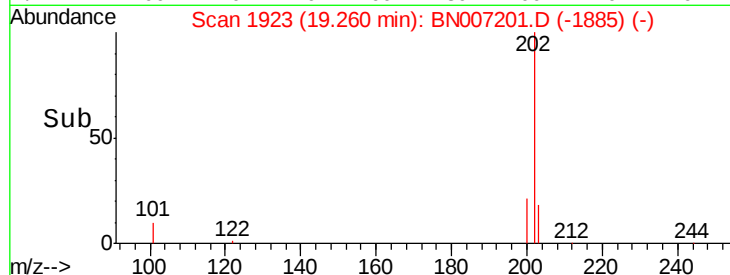
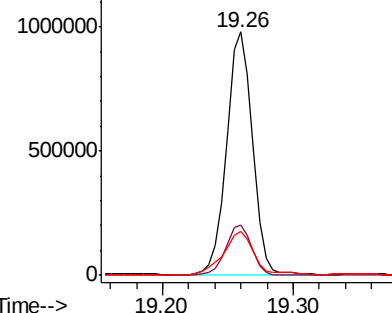


Abundance

Ion 202.00 (201.70 to 202.70): E

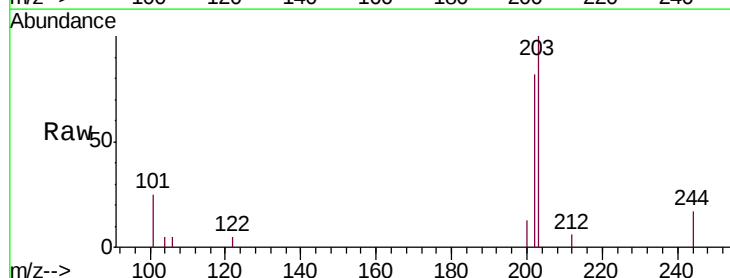
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28
Terphenyl-d14
Concen: 0.012 ng
RT: 19.48 min Scan# 1967
Delta R.T. -0.02 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Lower	Upper
244	100		
212	33.4	6.2	9.2#
122	28.5	7.4	11.2#

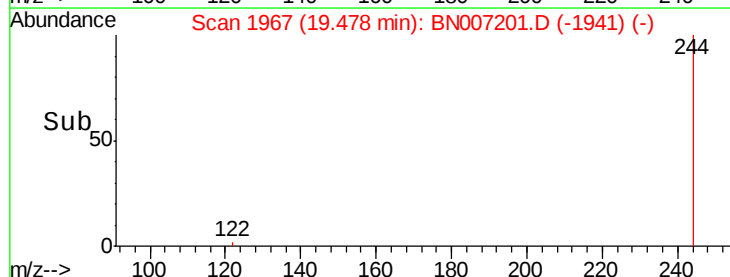
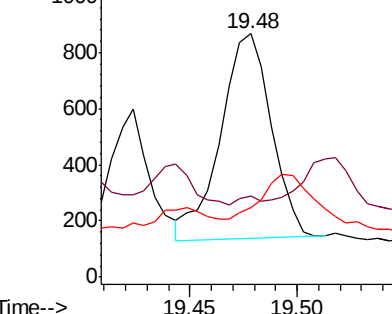


Abundance

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





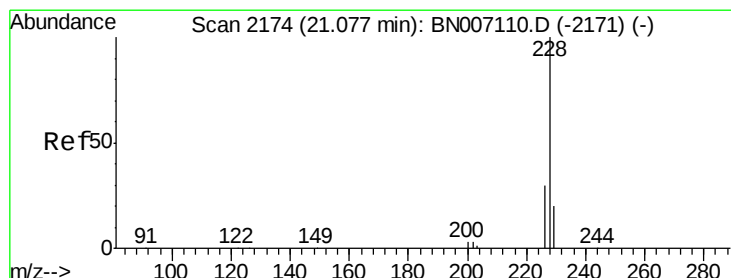
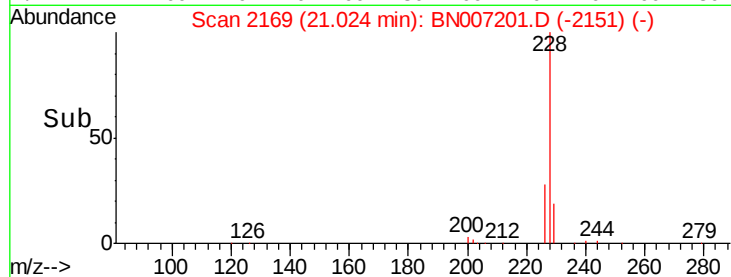
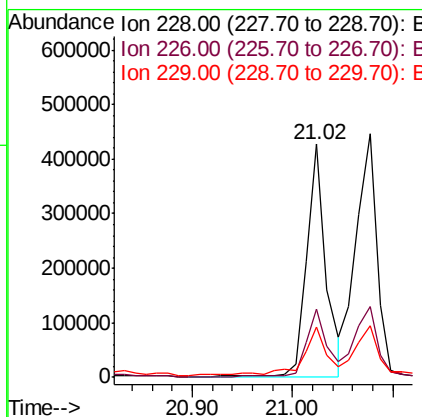
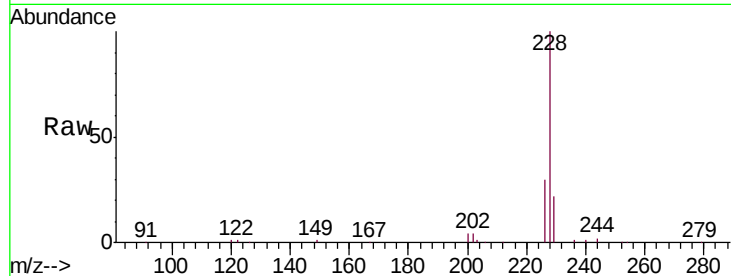
#29
Benzo(a)anthracene
Concen: 4.185 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	21.8	32.6
229	21.6	15.6	23.4

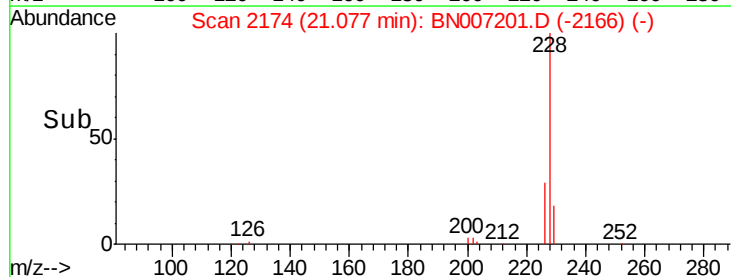
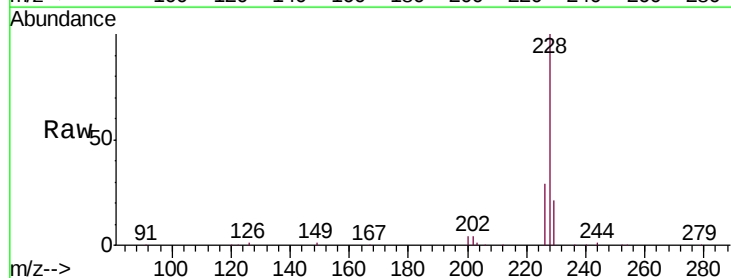
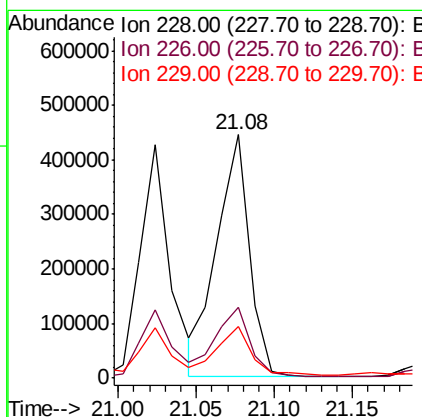
Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



#30
Chrysene
Concen: 4.835 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.8	35.6
229	21.4	15.7	23.5





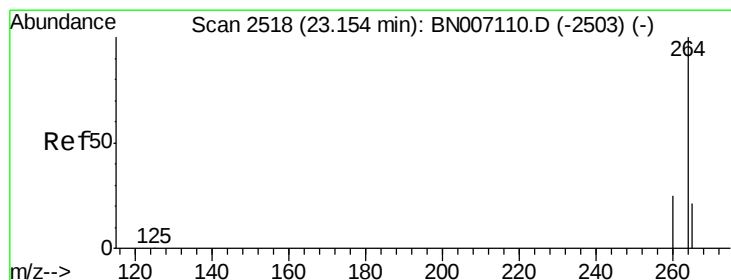
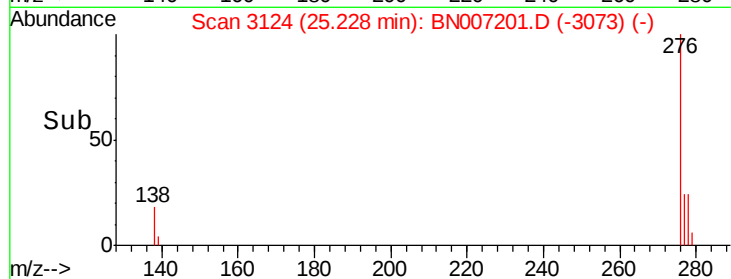
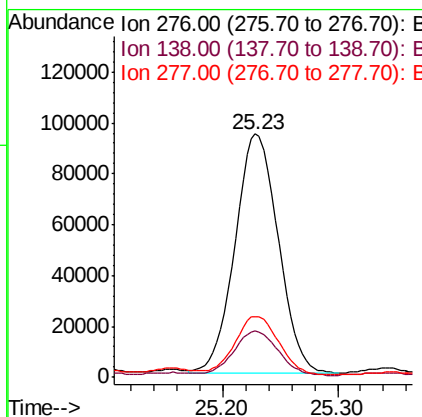
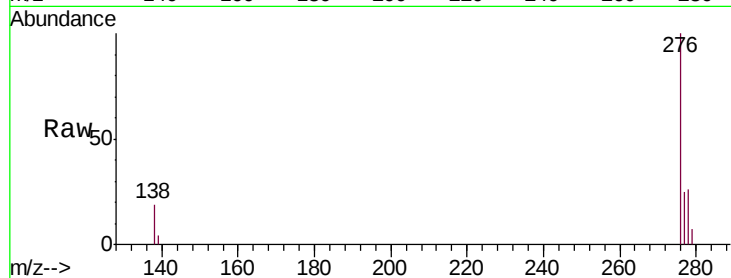
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.664 ng
 RT: 25.23 min Scan# 3124
 Delta R.T. -0.02 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B231-080519DL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	244616		
138	18.8	16.0	24.0	
277	25.0	19.9	29.9	

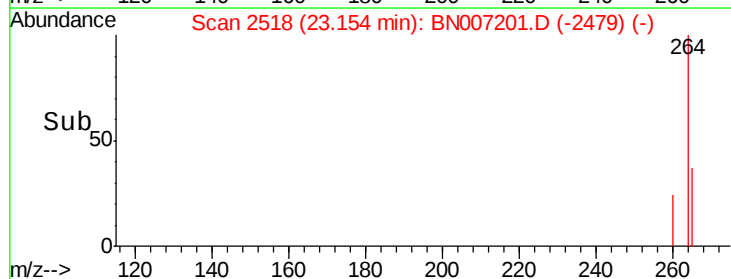
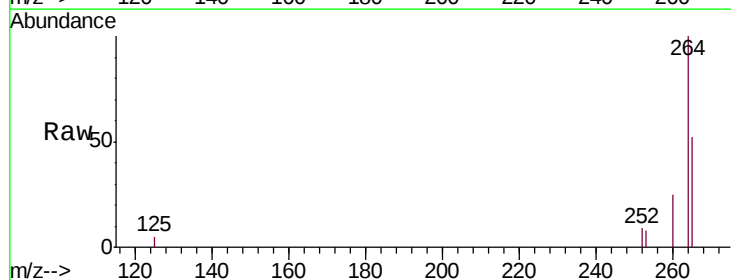
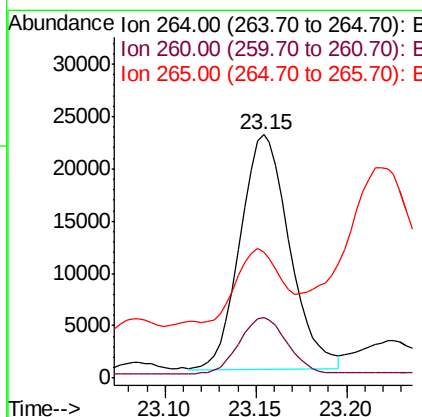
Manual Integrations
 APPROVED

Jagrut
 8/16/2019 6:11:33 PM



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	42270		
260	24.9	19.8	29.8	
265	51.5	26.2	39.4	





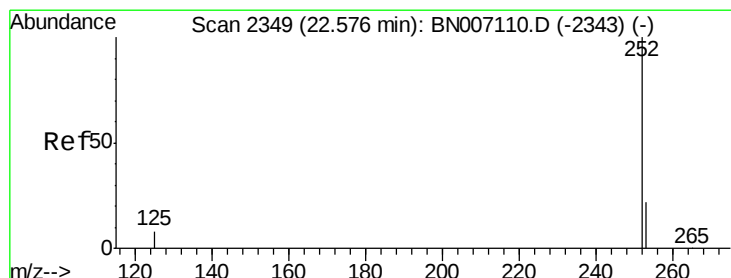
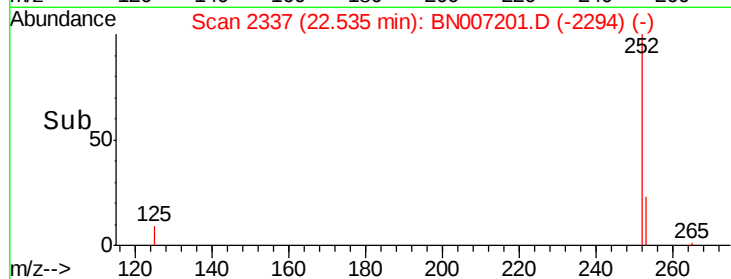
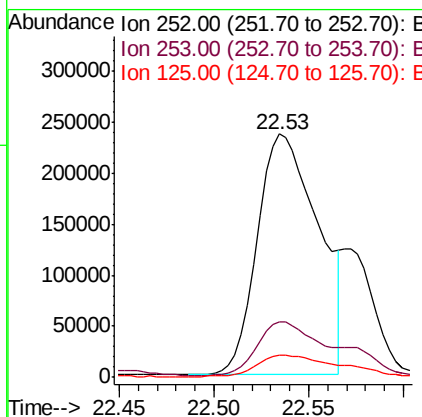
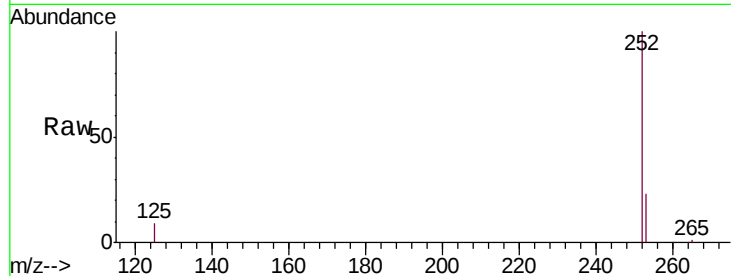
#33
Benzo(b)fluoranthene
Concen: 3.661 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	530701		
253	22.8	18.2	27.2	
125	9.0	7.4	11.0	

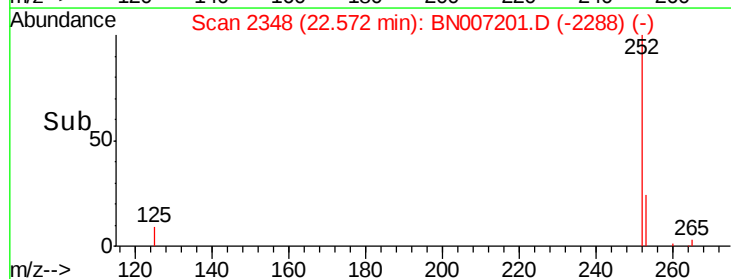
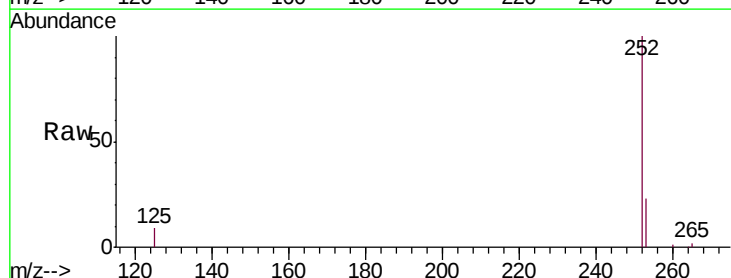
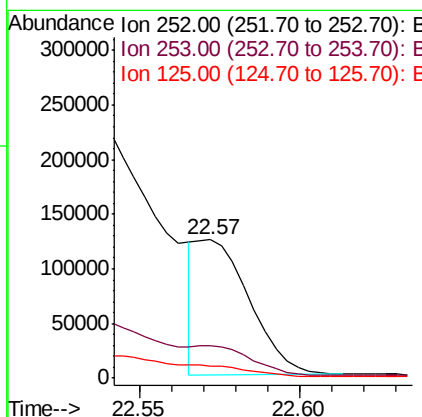
Manual Integrations
APPROVED

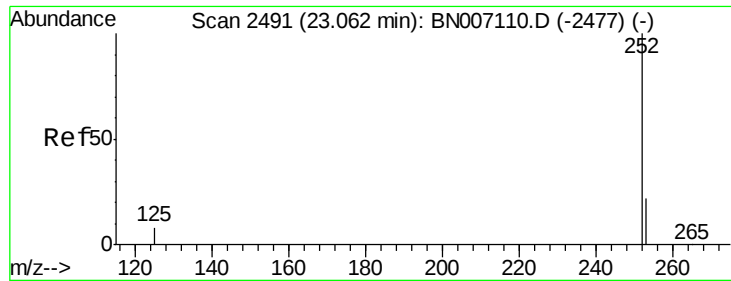
Jagrut
8/16/2019 6:11:33 PM



#34
Benzo(k)fluoranthene
Concen: 0.995 ng m
RT: 22.57 min Scan# 2348
Delta R.T. -0.02 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	142382		
253	23.4	18.1	27.1	
125	9.1	7.4	11.0	





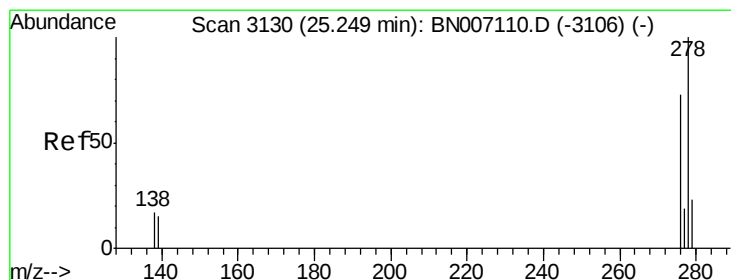
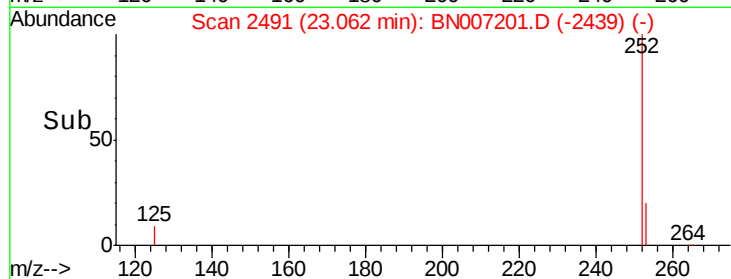
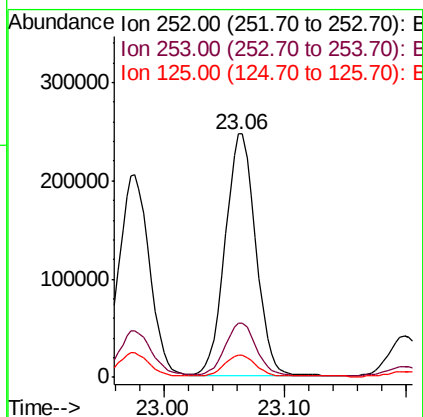
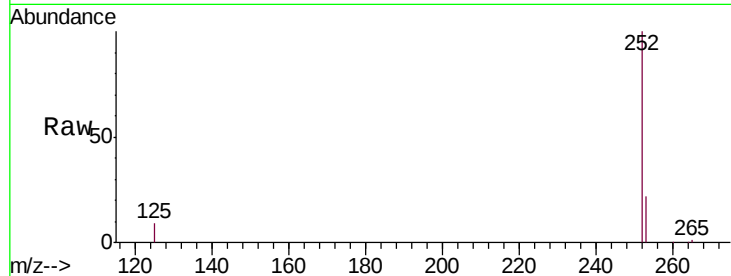
#35
Benzo(a)pyrene
Concen: 3.257 ng
RT: 23.06 min Scan# 2491
Delta R.T. -0.02 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampleId :
PST-034-B231-080519DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.5	27.7
125	9.3	8.2	12.4

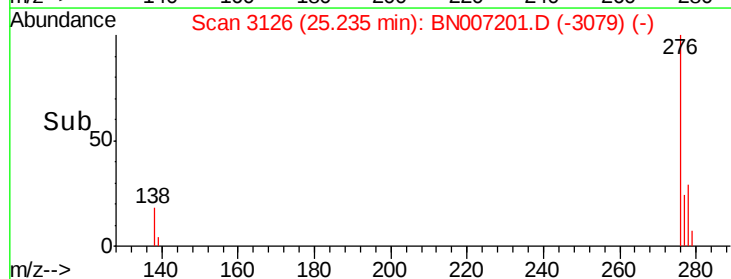
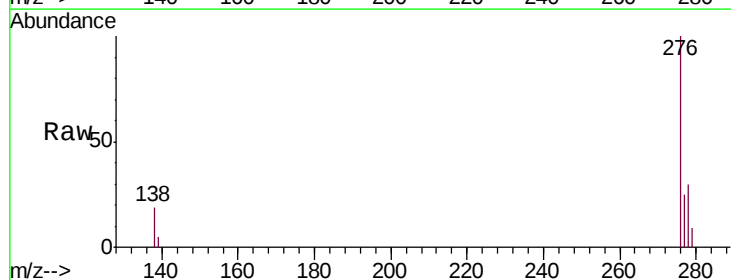
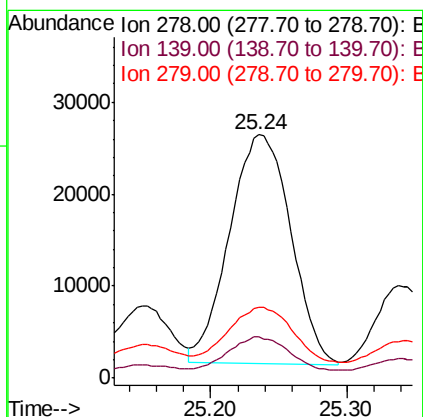
Manual Integrations
APPROVED

Jagrut
8/16/2019 6:11:33 PM



#36
Dibenzo(a,h)anthracene
Concen: 0.592 ng
RT: 25.24 min Scan# 3126
Delta R.T. -0.04 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

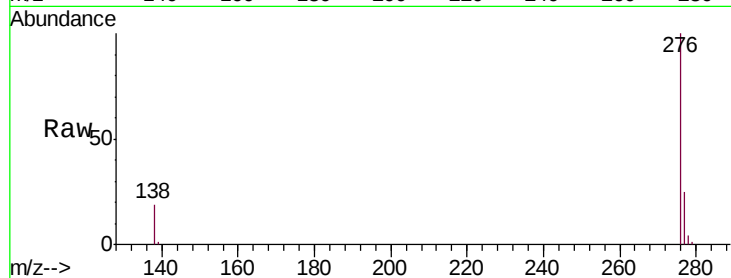
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.8	11.3	16.9
279	29.0	19.3	28.9#





#37
 Benzo(g,h,i)perylene
 Concen: 2.224 ng
 RT: 25.86 min Scan# 3308
 Delta R.T. -0.02 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B231-080519DL



Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		299994		
277	24.6	19.8	29.8		
138	19.0	14.6	22.0		

Manual Integrations
 APPROVED

Jagrut
 8/16/2019 6:11:33 PM

