

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007237.D
 Acq On : 17 Aug 2019 00:51
 Operator : HP/JU
 Sample : K4282-19
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Manual Integrations
 APPROVED

Quant Time: Aug 19 04:49:47 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	7734	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	29858	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	17257	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	39328	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	36724	0.40	ng	-0.02
32) Perylene-d12	23.15	264	42186	0.40	ng	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.05	112	6250	0.34	ng	0.00
4) Phenol-d6	6.61	99	8152	0.35	ng	0.00
7) Nitrobenzene-d5	8.55	82	6802	0.28	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	13165	0.24	ng	-0.02
13) 2,4,6-Tribromophenol	15.56	330	2353	0.25	ng	-0.01
14) 2-Fluorobiphenyl	12.71	172	660	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	27688	0.20	ng	0.00
28) Terphenyl-d14	19.48	244	19659	0.20	ng	-0.02
Target Compounds						
8) Naphthalene	10.23	128	40825	0.488	ng	99
11) 2-Methylnaphthalene	11.85	142	25921	0.437	ng	96
15) Acenaphthylene	13.78	152	265038	2.938	ng	100
16) Acenaphthene	14.13	154	10992	0.190	ng	# 90
17) Fluorene	15.12	166	33658	0.389	ng	# 81
21) Pentachlorophenol	16.47	266	640	0.073	ng	93
22) Phenanthrene	16.86	178	585812	4.970	ng	100
23) Anthracene	16.95	178	241059	2.239	ng	99
25) Fluoranthene	18.89	202	1387429	9.202	ng	99
27) Pyrene	19.25	202	1515520	11.768	ng	97
29) Benzo(a)anthracene	21.01	228	781986m	5.823	ng	
30) Chrysene	21.07	228	979842	7.509	ng	97
31) Indeno(1,2,3-cd)pyrene	25.22	276	567135	3.944	ng	98
33) Benzo(b)fluoranthene	22.53	252	1287095	8.897	ng	100
34) Benzo(k)fluoranthene	22.56	252	363776m	2.546	ng	
35) Benzo(a)pyrene	23.06	252	760881	5.802	ng	99
36) Dibenzo(a,h)anthracene	25.23	278	150148	1.147	ng	# 91
37) Benzo(a,h,i)perylene	25.85	276	576260	4.281	ng	99

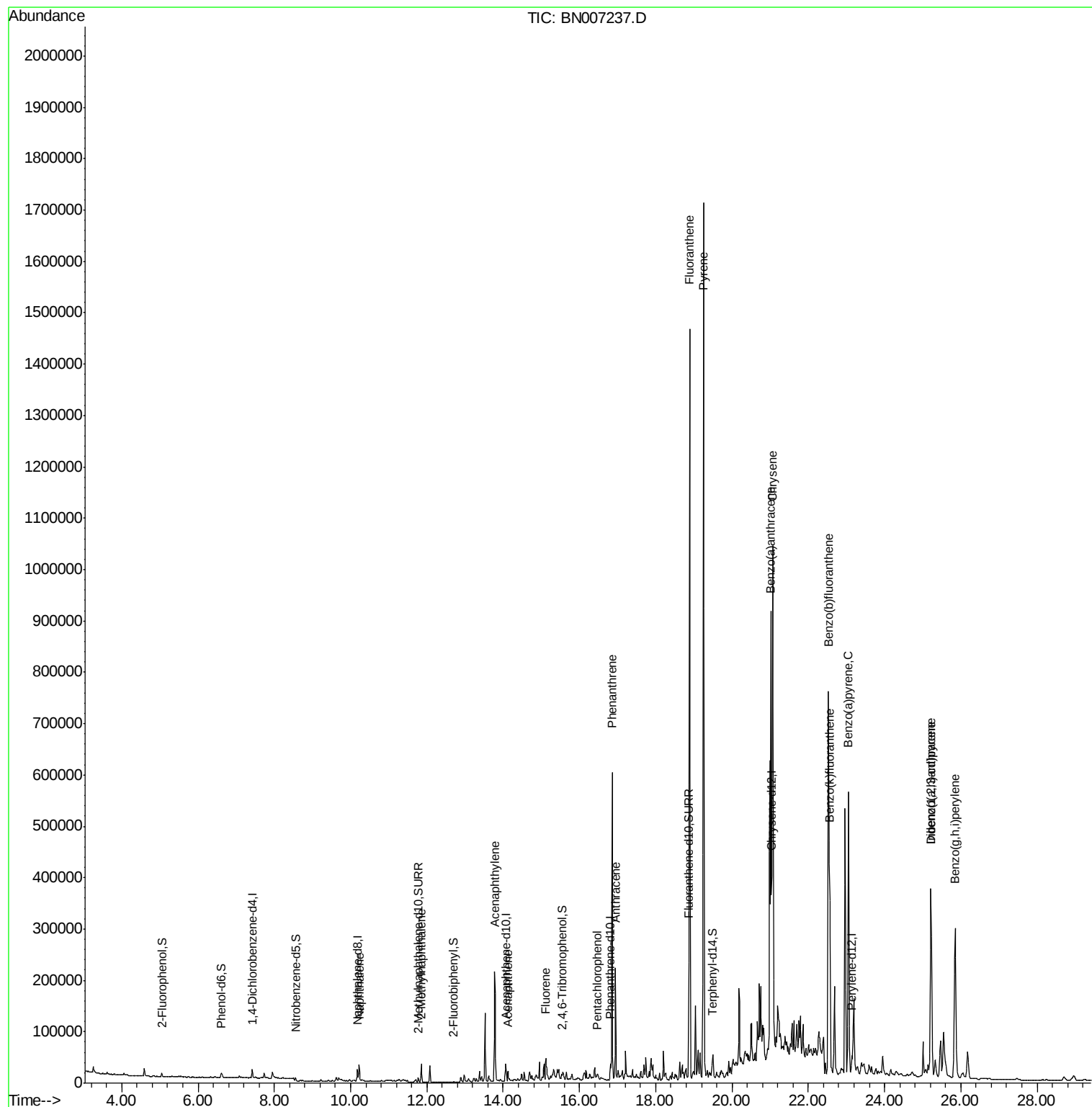
(#) = qualifier out of range (m) = manual integration (+) = signals summed

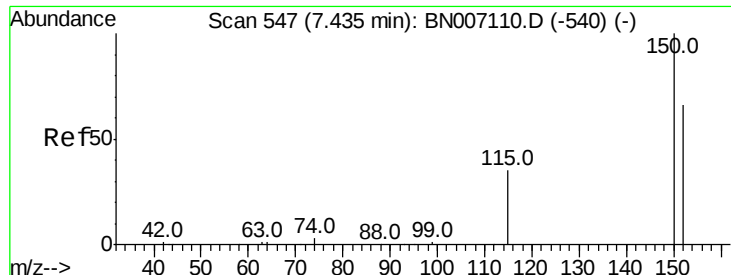
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
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Quant Time: Aug 19 04:49:47 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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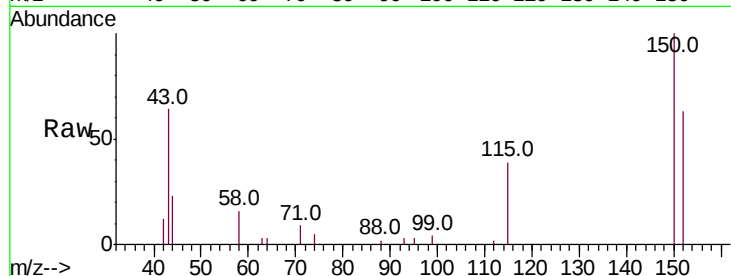
#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	121.7	182.5
115	62.0	46.2	69.4

Manual Integrations
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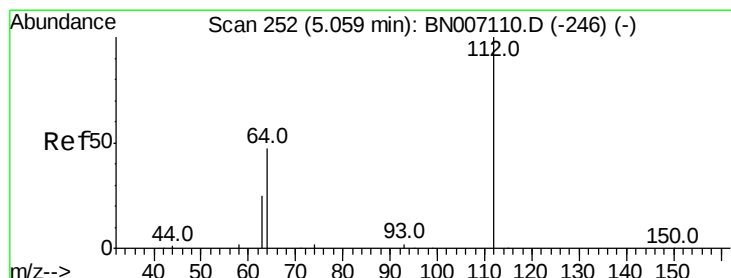
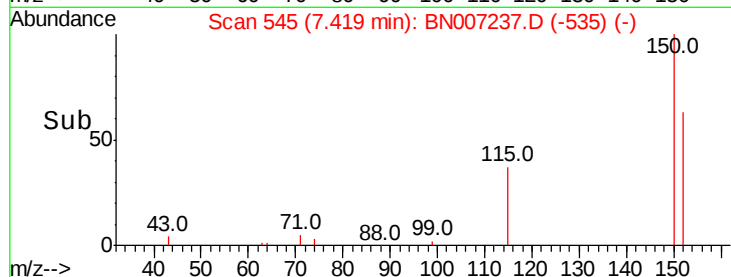
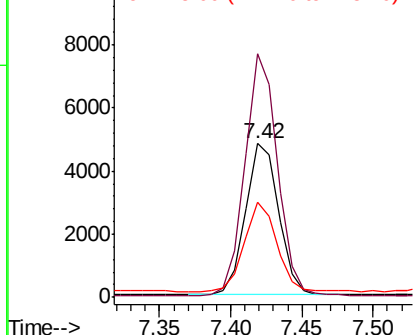


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

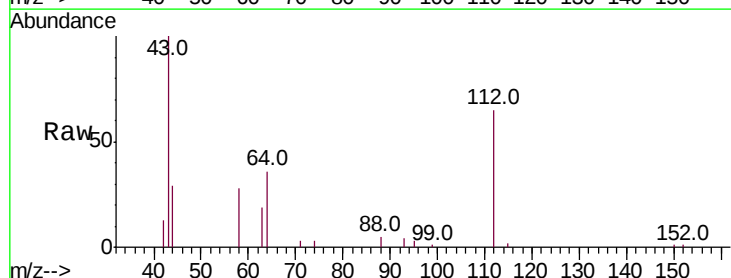
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.336 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.2	42.6	63.8
63	26.6	22.2	33.2

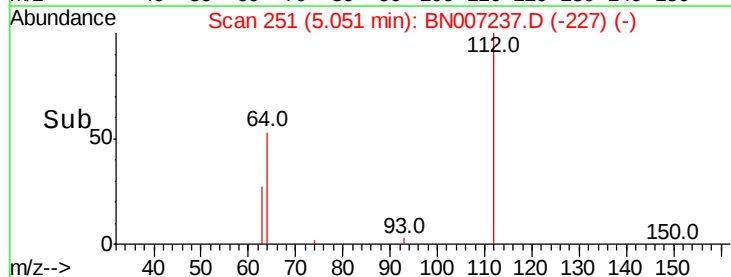
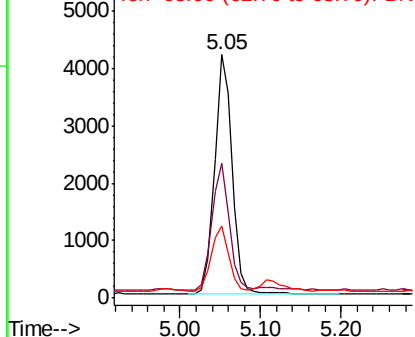


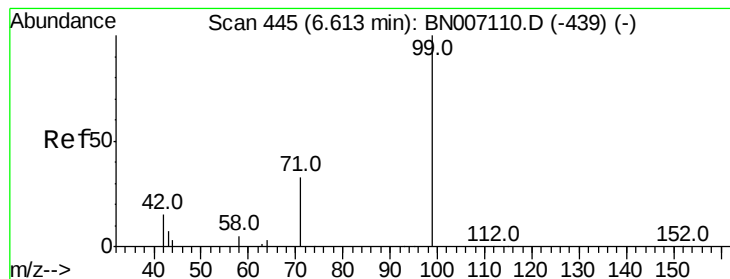
Abundance

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: 0.354 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

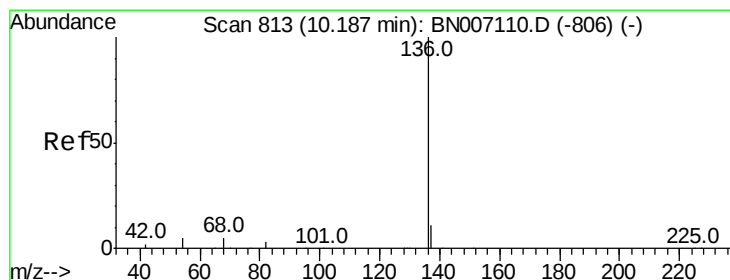
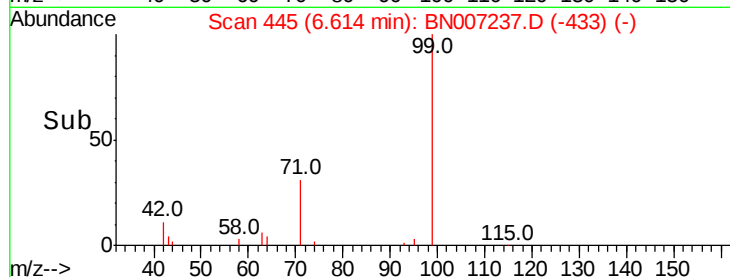
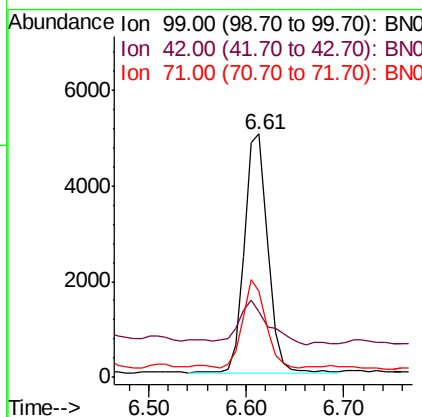
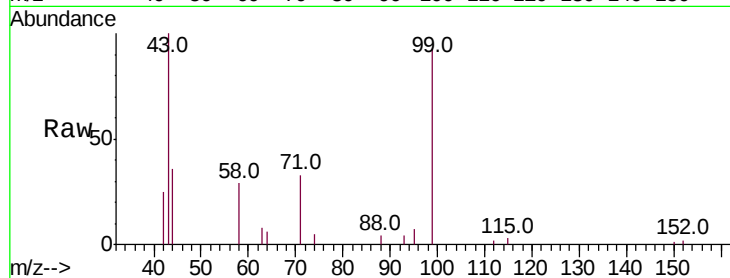
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	99	Resp:	8152
Ion Ratio	Lower	Upper	
99	100		
42	23.5	15.8	23.6
71	36.5	27.0	40.4

Manual Integrations
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#6

Naphthalene-d8

Concen: 0.400 ng

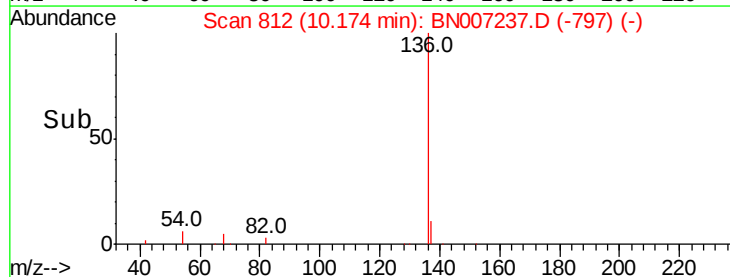
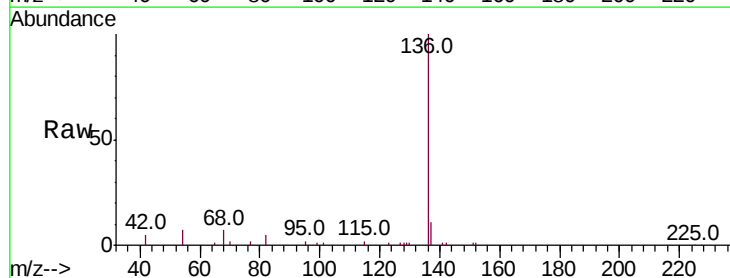
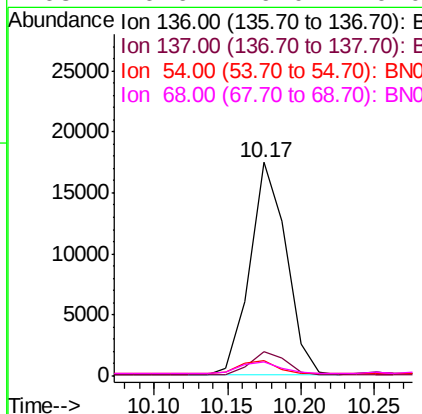
RT: 10.17 min Scan# 812

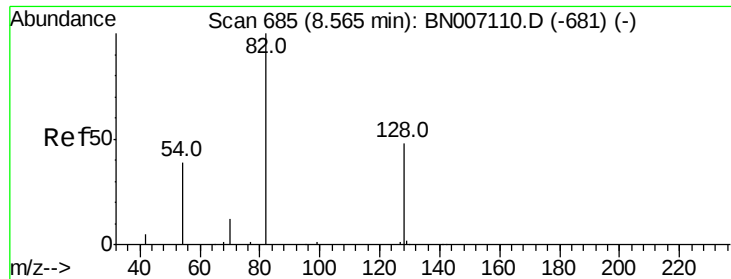
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	136	Resp:	29858
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.4	14.0
54	7.4	6.6	9.8
68	6.6	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.283 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

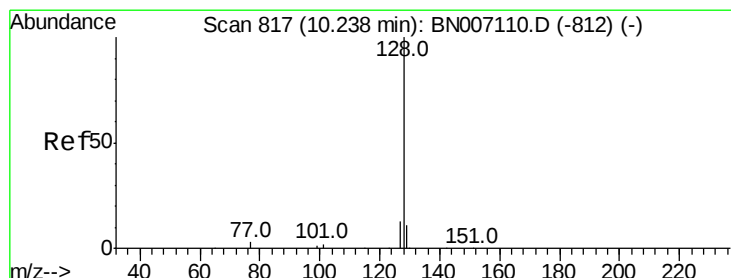
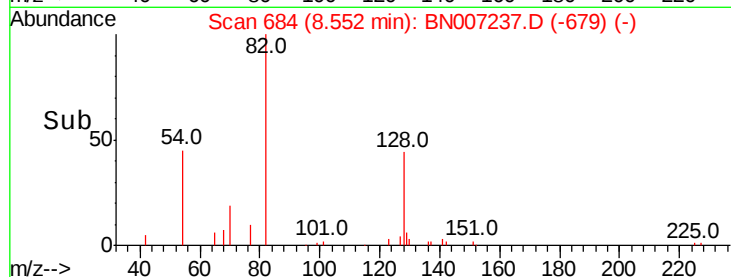
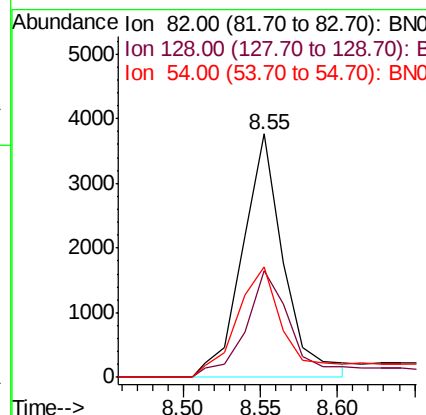
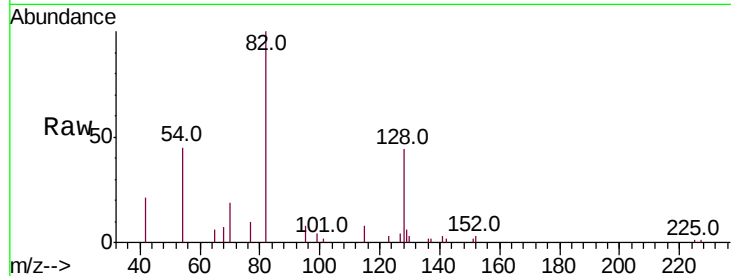
Instrument :

BNA_N

ClientSampled :

Tot Ion:	82	Resp:	6802
Ion Ratio	Lower	Upper	
82	100		
128	44.0	34.6	51.8
54	45.3	36.2	54.4

Manual Integrations
APPROVED



#8

Naphthalene

Concen: 0.488 ng

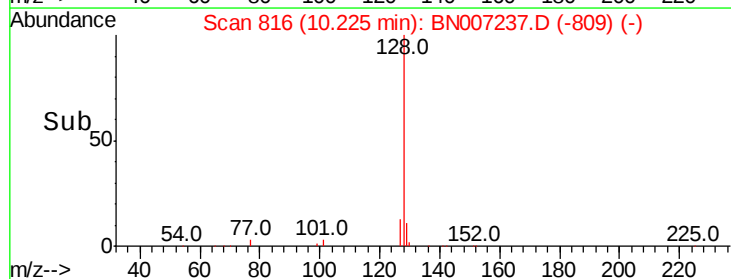
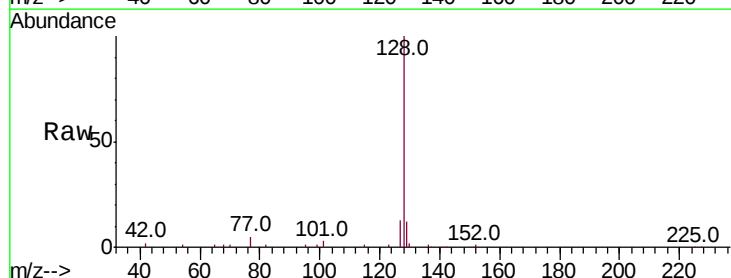
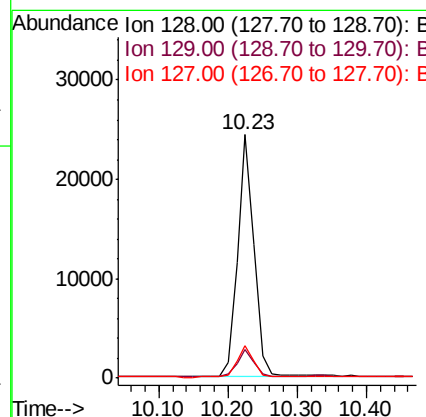
RT: 10.23 min Scan# 816

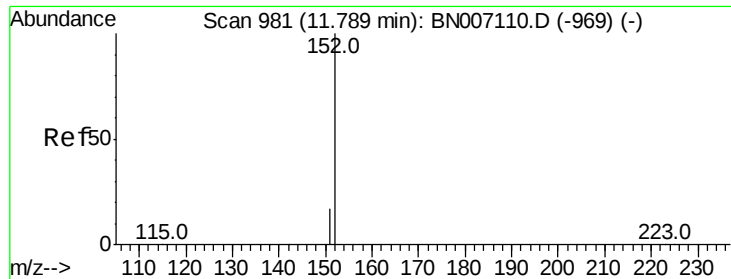
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	128	Resp:	40825
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.4	14.2
127	13.3	11.0	16.6



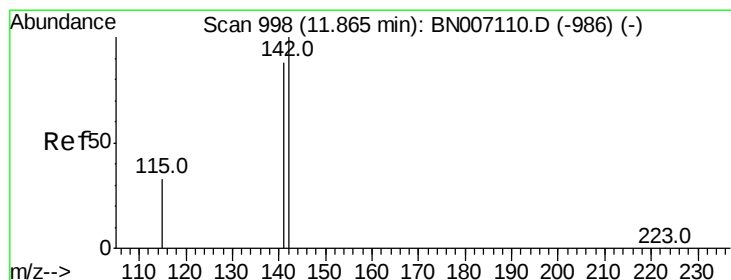
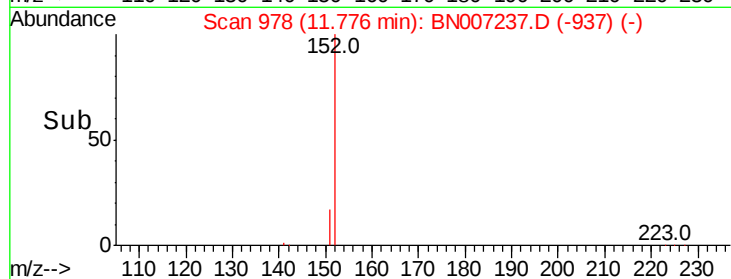
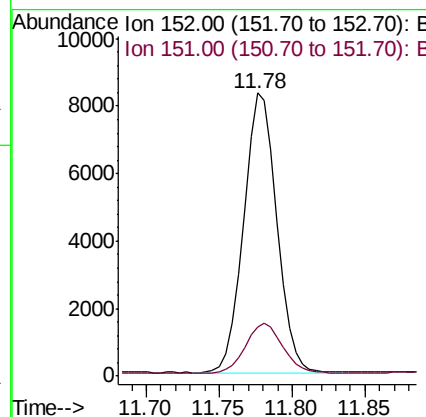
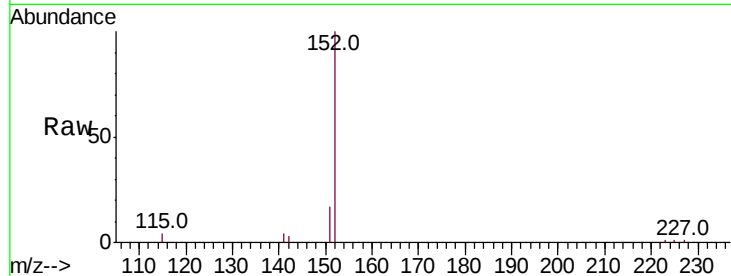


#10
2-Methylnaphthalene-d10
Concen: 0.236 ng
RT: 11.78 min Scan# 978
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampled :

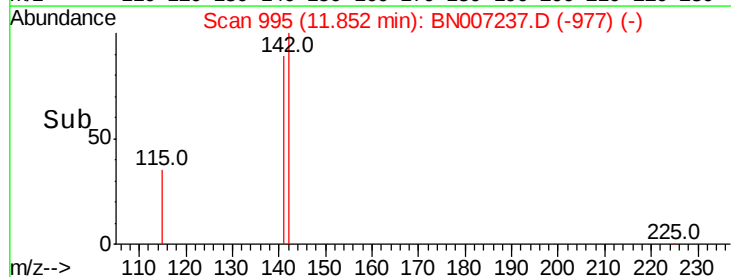
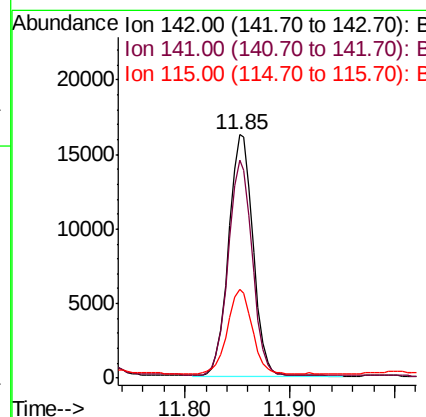
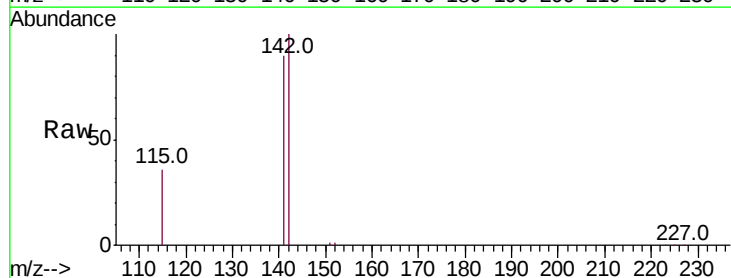
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3

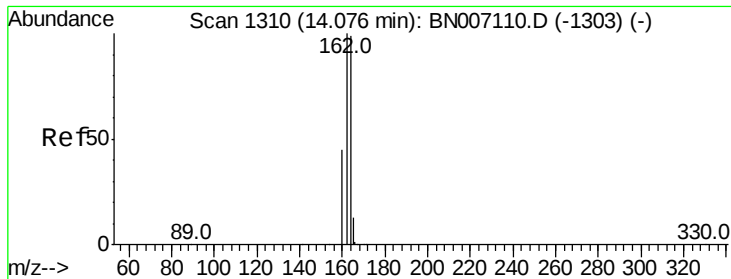
Manual Integrations
APPROVED



#11
2-Methylnaphthalene
Concen: 0.437 ng
RT: 11.85 min Scan# 995
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	69.0	103.6
115	36.4	27.1	40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

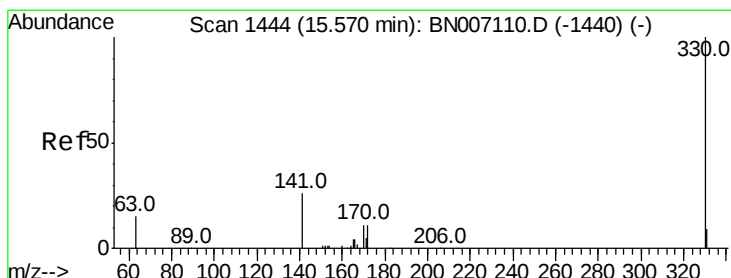
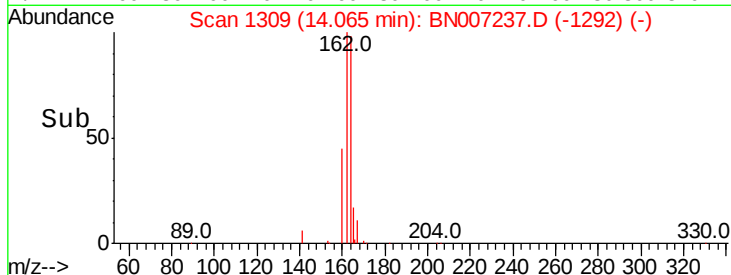
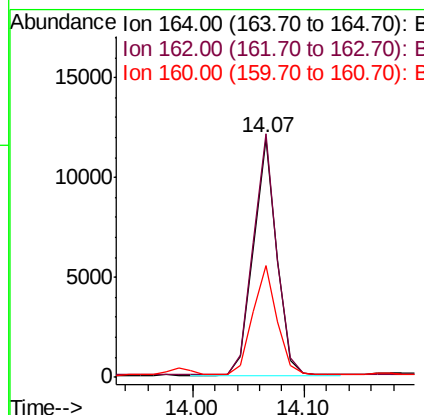
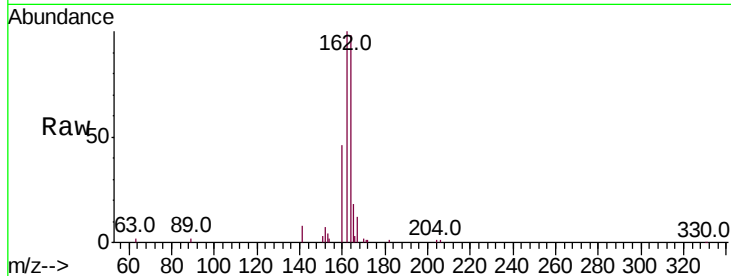
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	164	Resp:	17257
Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.4
160	47.1	38.3	57.5

Manual Integrations
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#13

2,4,6-Tribromophenol

Concen: 0.253 ng

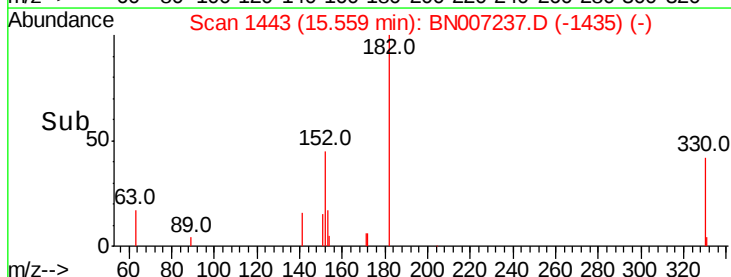
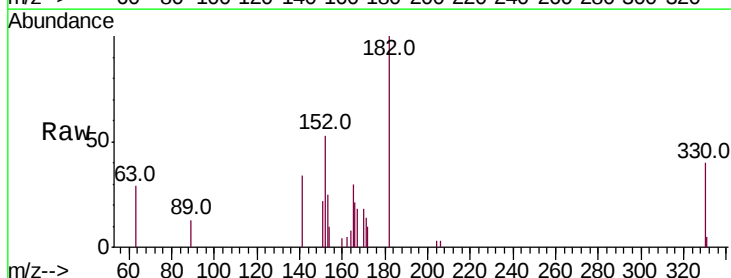
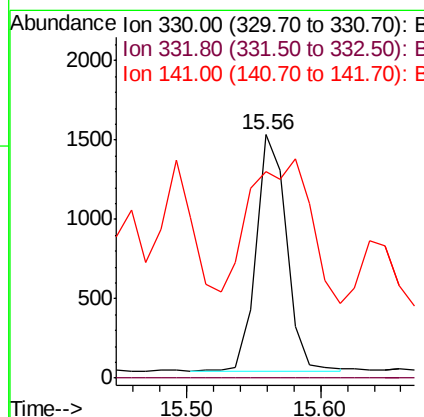
RT: 15.56 min Scan# 1443

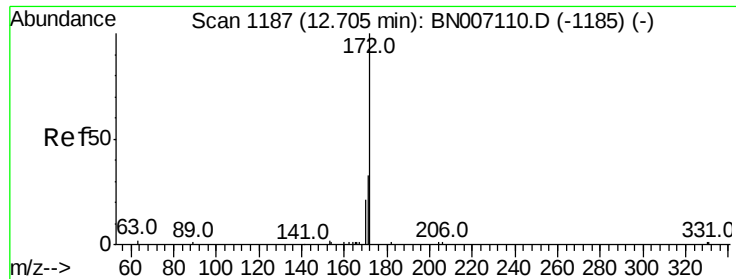
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	330	Resp:	2353
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	0.0	33.6	50.4#



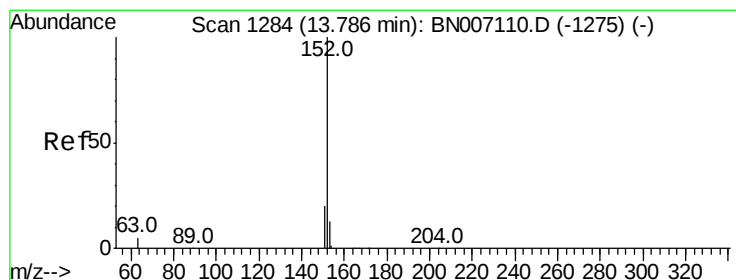
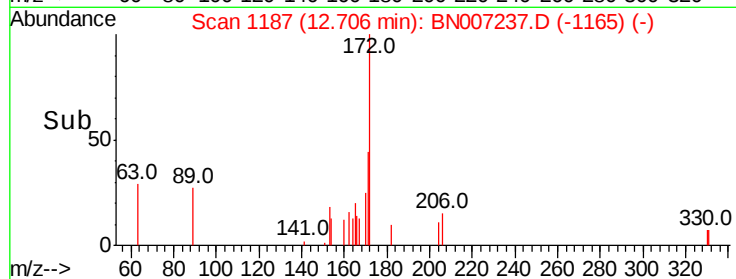
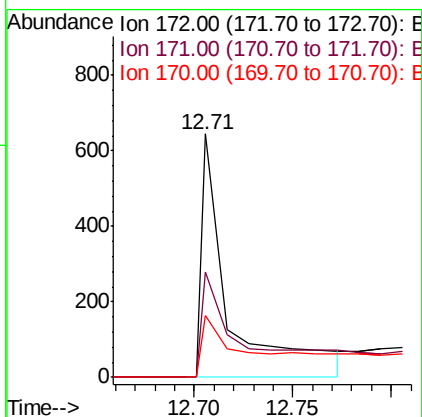
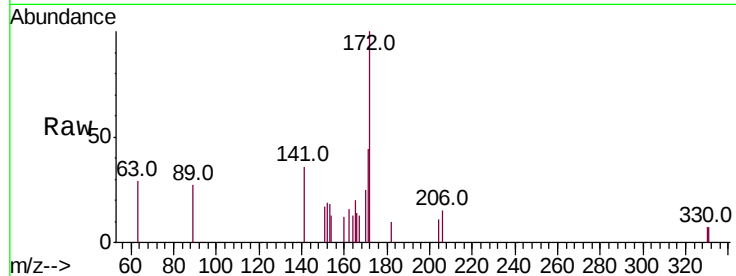


#14
2-Fluorobiphenyl
Concen: 0.026 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :

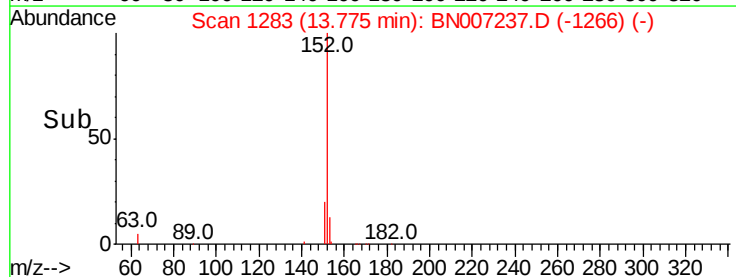
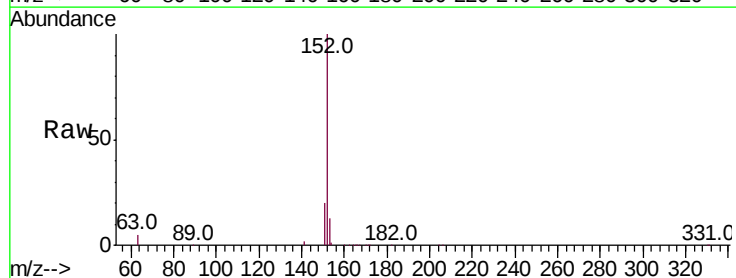
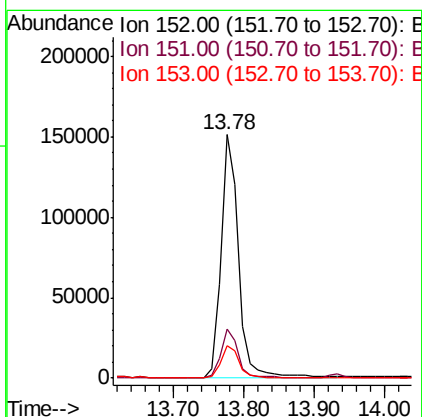
Tot Ion	Ratio	Lower	Upper
172	100		
171	43.6	26.3	39.5#
170	25.4	17.0	25.4

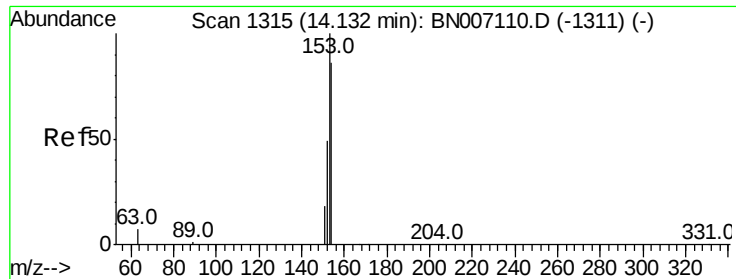
Manual Integrations
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#15
Acenaphthylene
Concen: 2.938 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.6
153	13.5	10.4	15.6





#16

Acenaphthene

Concen: 0.190 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

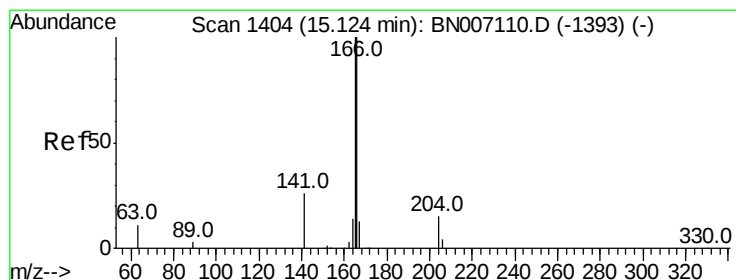
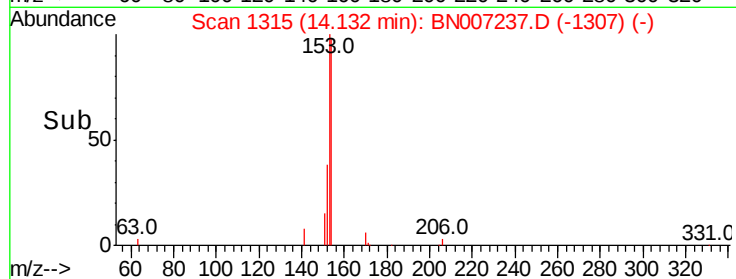
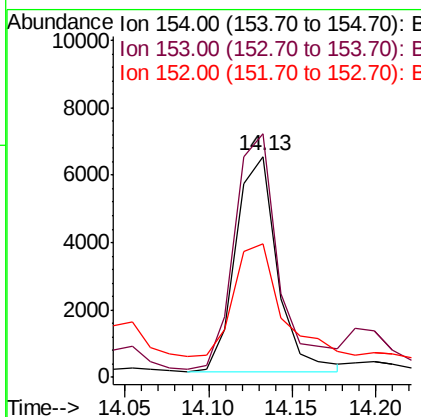
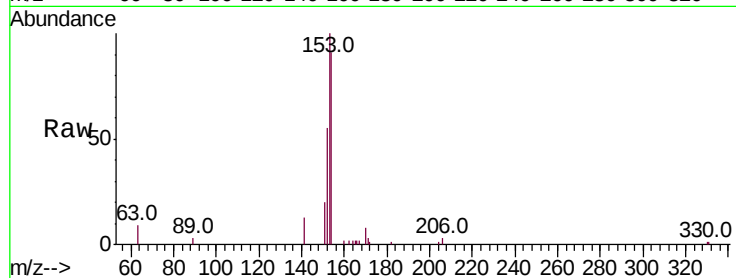
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	154	Resp:	10992
Ion Ratio	Lower	Upper	
154	100		
153	116.9	89.5	134.3
152	71.2	44.8	67.2#

Manual Integrations
APPROVED



#17

Fluorene

Concen: 0.389 ng

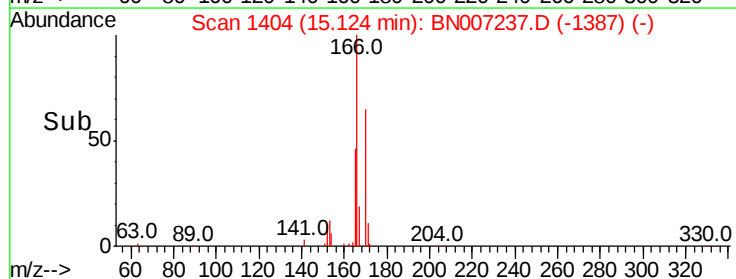
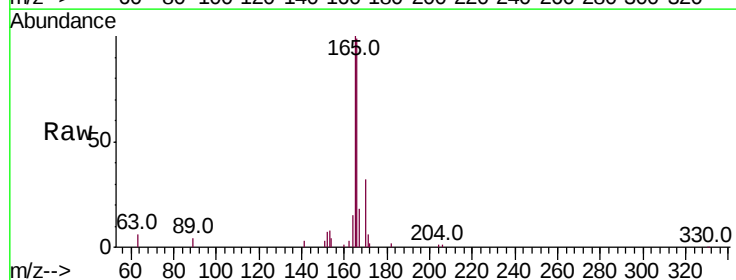
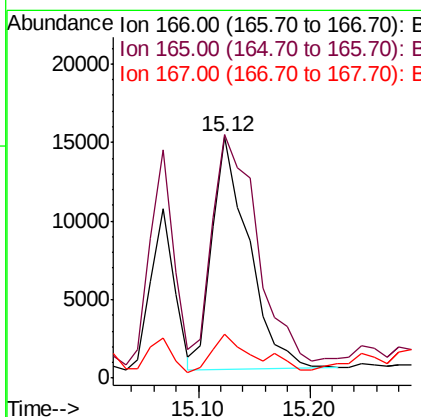
RT: 15.12 min Scan# 1404

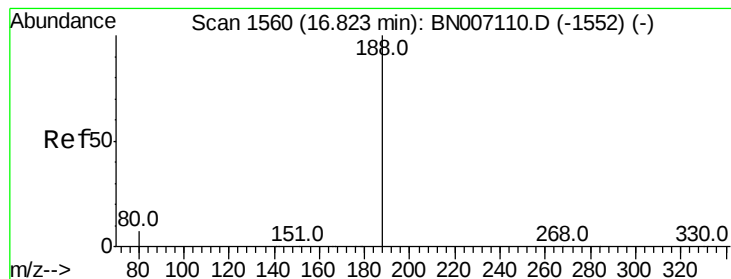
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	166	Resp:	33658
Ion Ratio	Lower	Upper	
166	100		
165	117.3	77.9	116.9#
167	19.1	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: BN007237.D

Acq: 17 Aug 2019 00:51

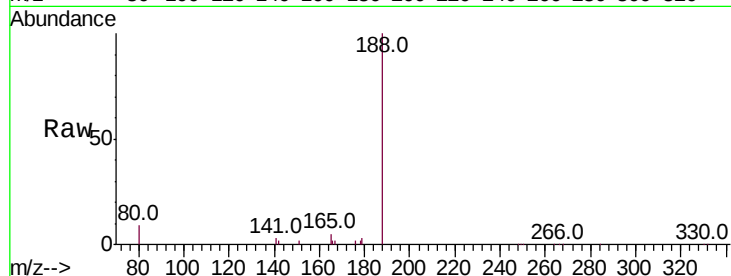
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	188	Resp:	39328
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.4	7.8	11.6

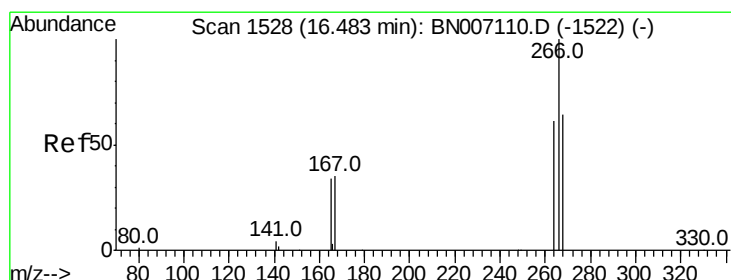
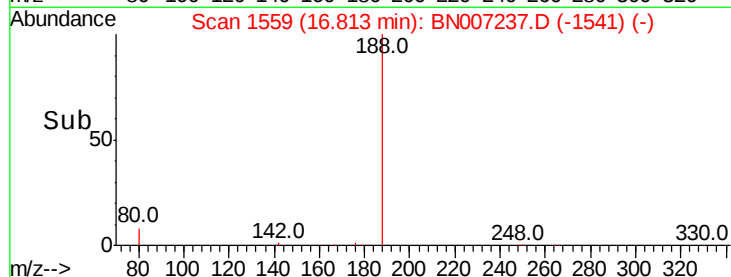
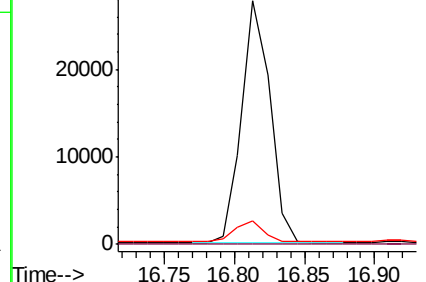
Manual Integrations
APPROVED



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#21

Pentachlorophenol

Concen: 0.073 ng

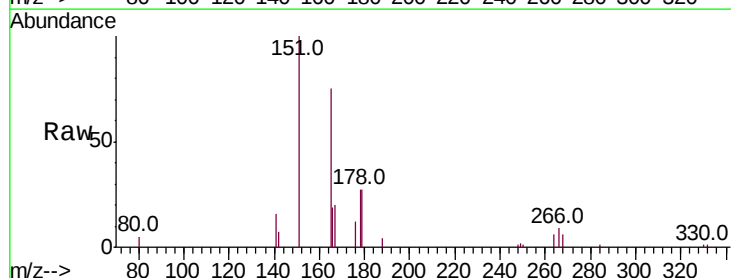
RT: 16.47 min Scan# 1527

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

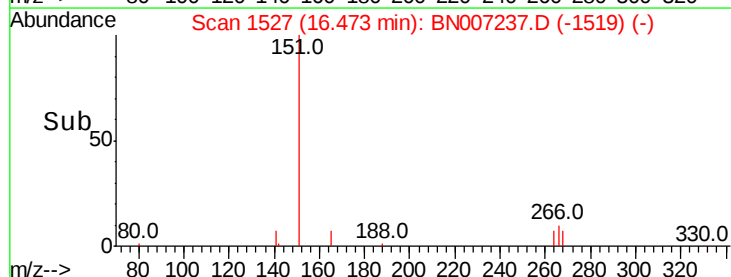
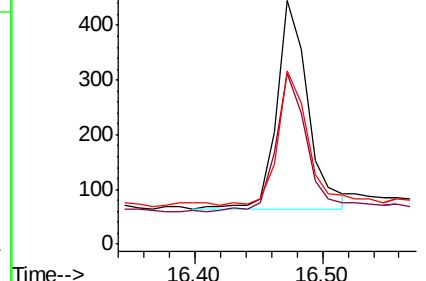
Tgt Ion:	266	Resp:	640
Ion Ratio	Lower	Upper	
266	100		
264	69.9	52.3	78.5
268	71.0	51.5	77.3

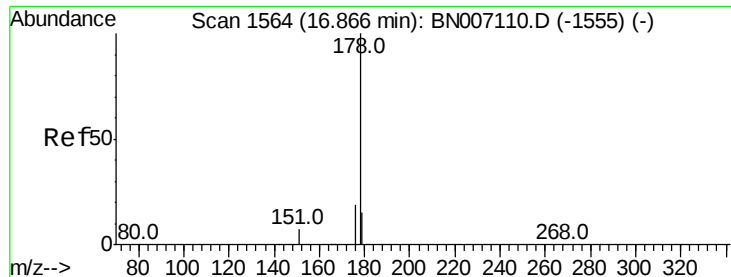


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#22

Phenanthrene

Concen: 4.970 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

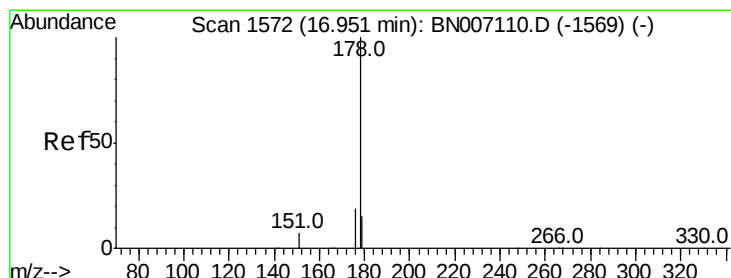
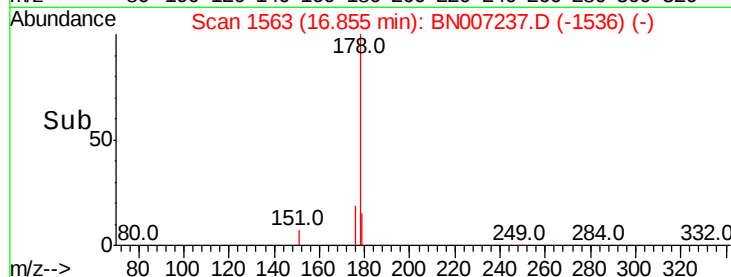
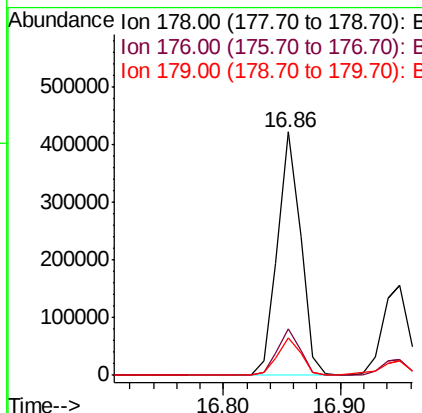
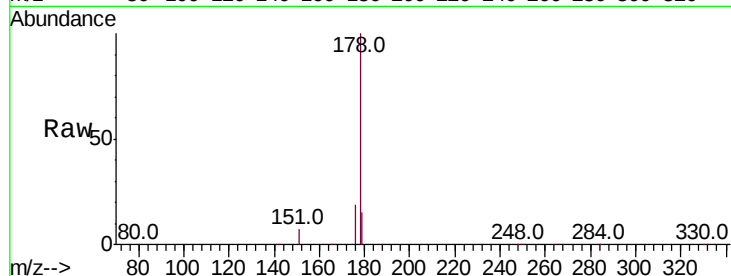
Instrument :

BNA_N

ClientSampled :

Tot Ion:	178	Resp:	585812
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.2	22.8
179	15.7	12.3	18.5

Manual Integrations
APPROVED



#23

Anthracene

Concen: 2.239 ng

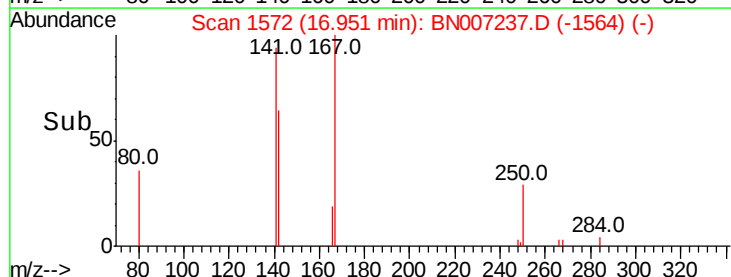
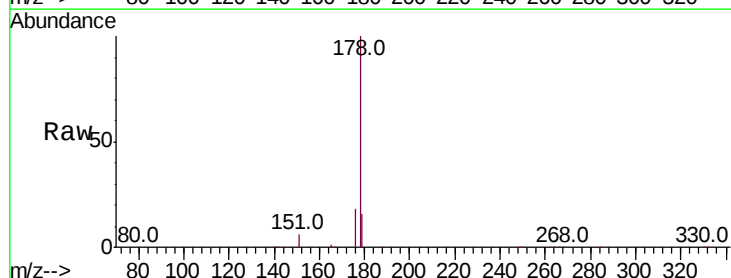
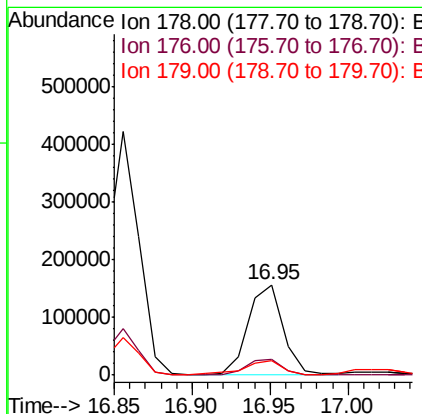
RT: 16.95 min Scan# 1572

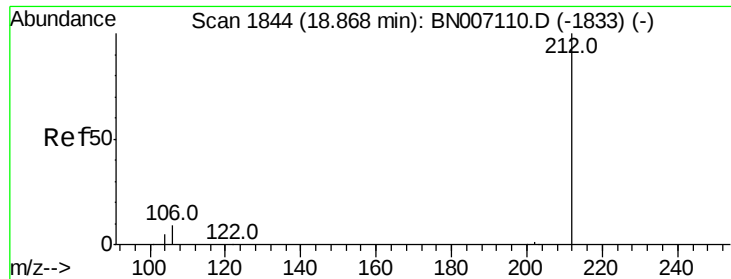
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	178	Resp:	241059
Ion Ratio	Lower	Upper	
178	100		
176	18.2	14.6	21.8
179	16.2	12.5	18.7





#24

Fluoranthene-d10

Concen: 0.199 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

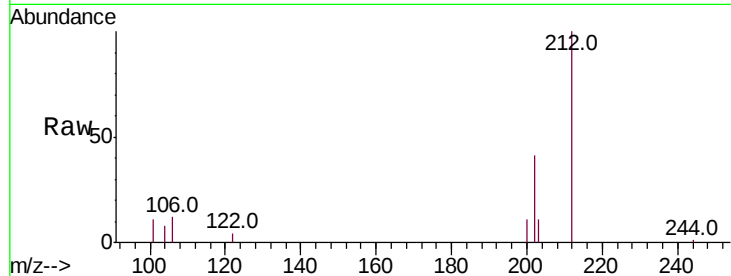
Instrument :

BNA_N

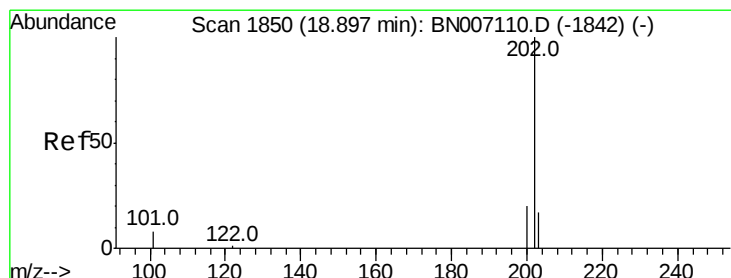
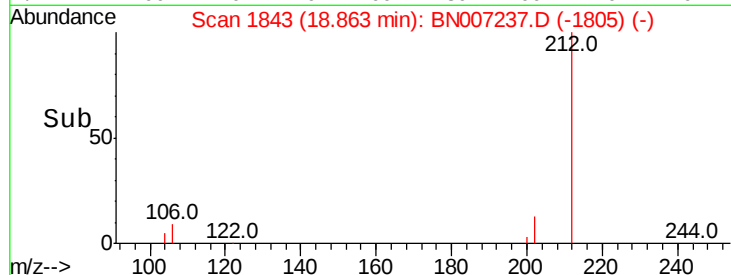
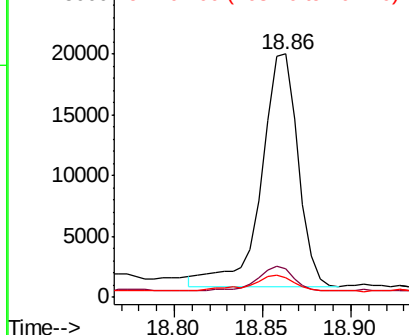
ClientSampleId :

Tot Ion:	212	Resp:	27688
Ion Ratio	Lower	Upper	
212	100		
106	10.3	8.2	12.2
104	8.4	4.5	6.7#

Manual Integrations
APPROVED



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



#25

Fluoranthene

Concen: 9.202 ng

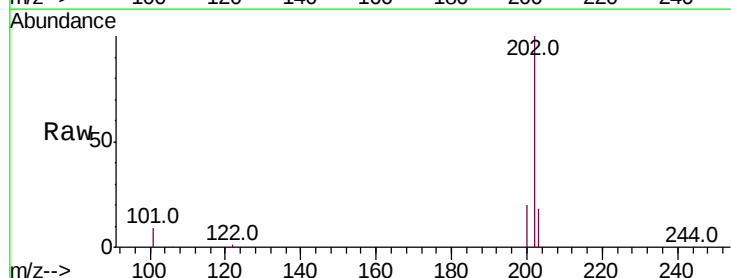
RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

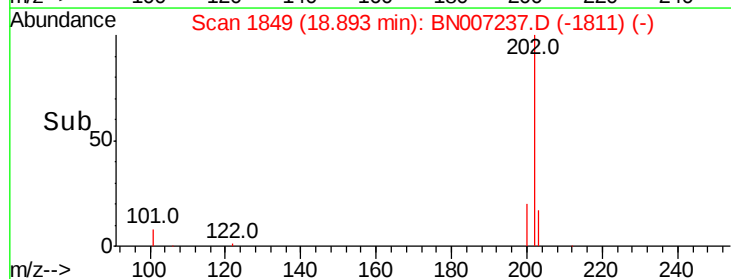
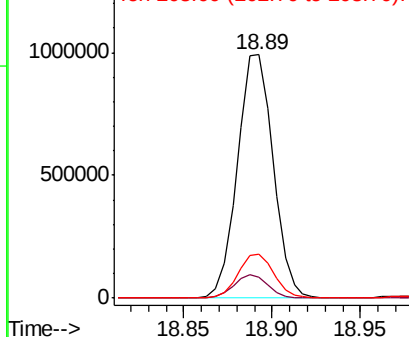
Lab File: BN007237.D

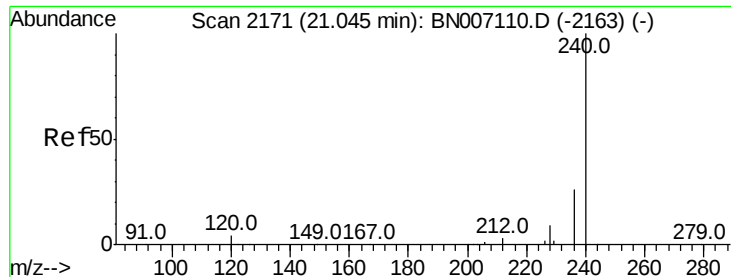
Acq: 17 Aug 2019 00:51

Tgt Ion:	202	Resp:	1387429
Ion Ratio	Lower	Upper	
202	100		
101	9.0	7.0	10.4
203	17.8	13.8	20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



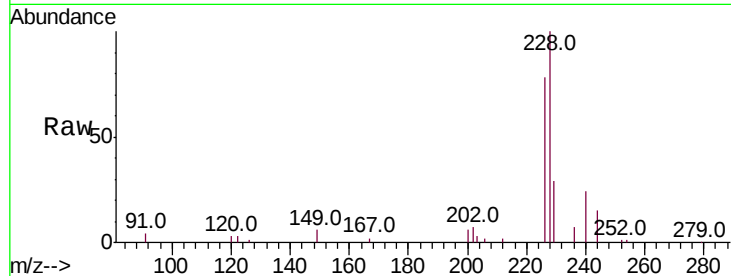


#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	4.0	6.0#
236	30.0	21.3	31.9

Manual Integrations
APPROVED

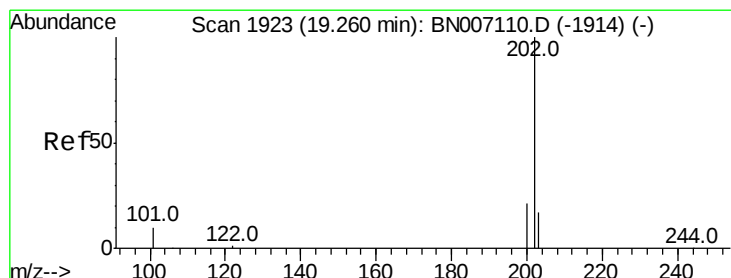
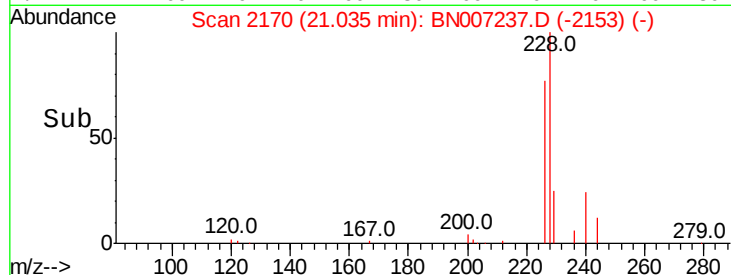
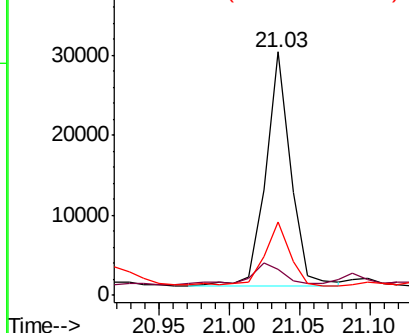


Abundance

Ion 240.00 (239.70 to 240.70): E

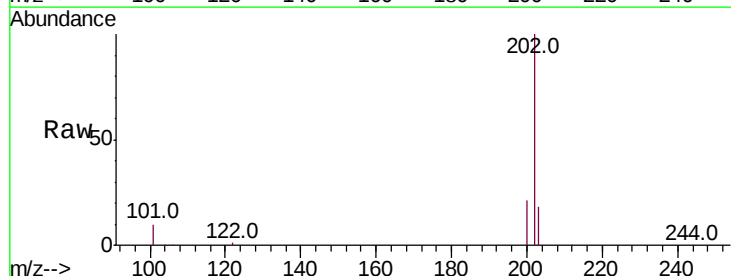
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#27
Pyrene
Concen: 11.768 ng
RT: 19.25 min Scan# 1922
Delta R.T. -0.01 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	20.0	14.0	21.0

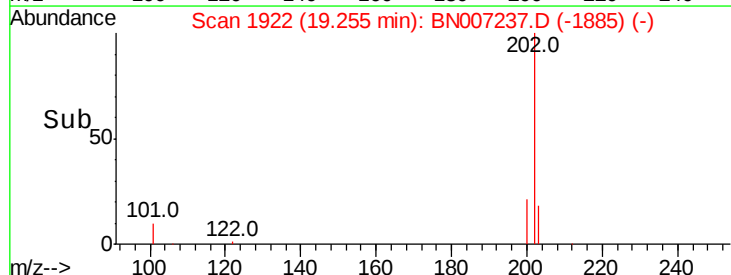
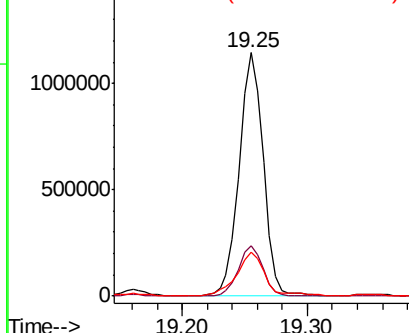


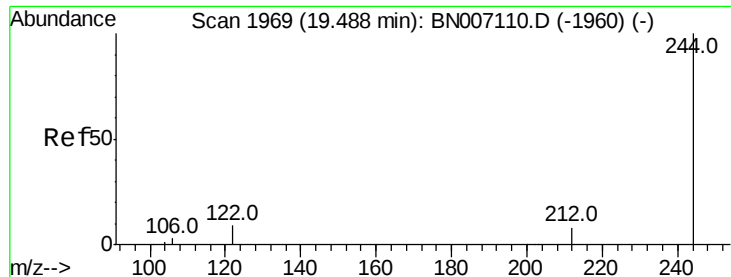
Abundance

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: 0.196 ng

RT: 19.48 min Scan# 1967

Delta R.T. -0.02 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

ClientSampleId :

Tot Ion:244 Resp: 19659

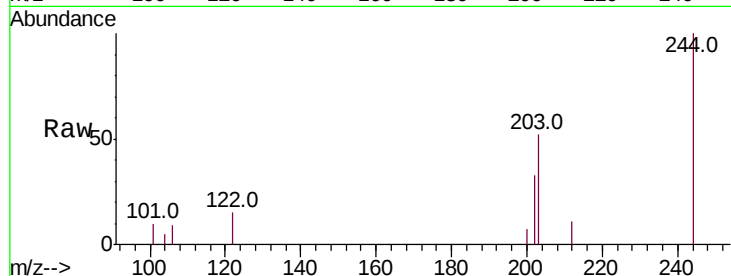
Ion Ratio Lower Upper

244 100

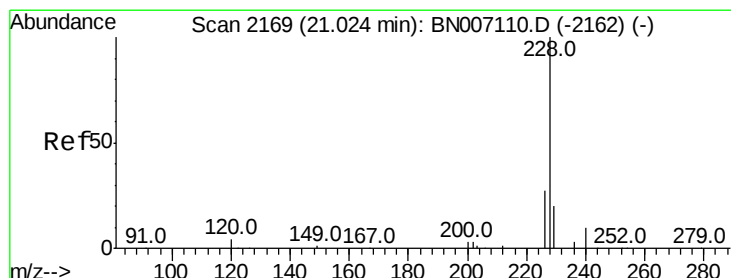
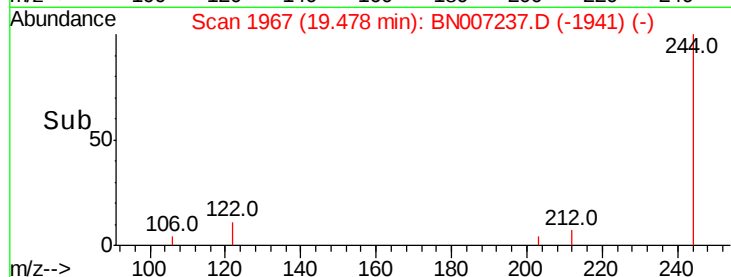
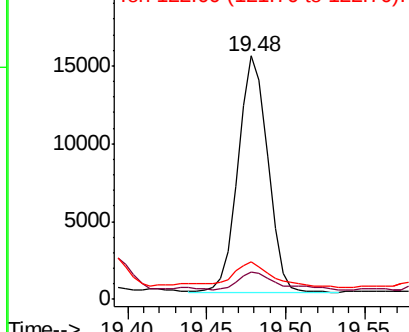
212 11.3 6.2 9.2#

122 15.2 7.4 11.2#

Manual Integrations
APPROVED



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: 5.823 ng m

RT: 21.01 min Scan# 2168

Delta R.T. -0.02 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

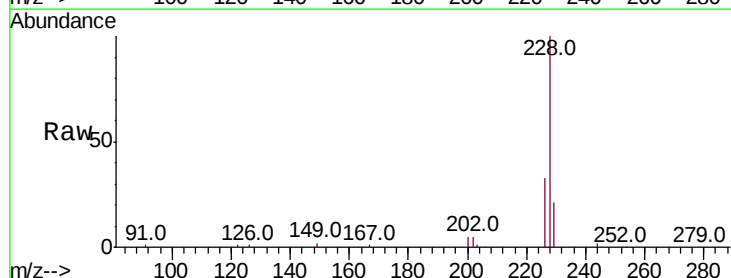
Tgt Ion:228 Resp: 781986

Ion Ratio Lower Upper

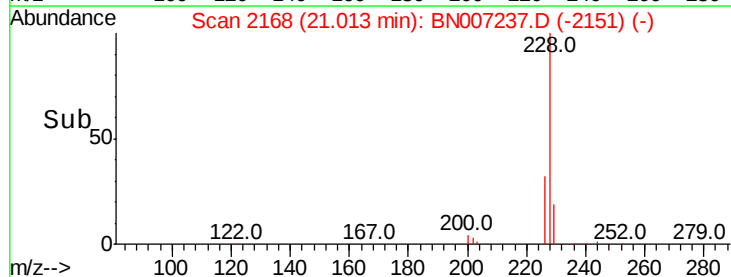
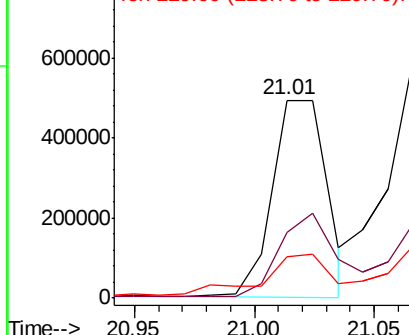
228 100

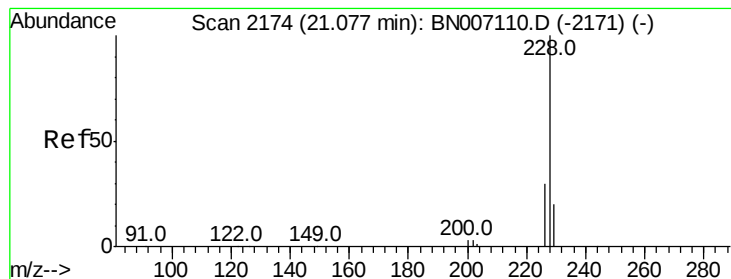
226 33.2 21.8 32.6#

229 21.1 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 7.509 ng

RT: 21.07 min Scan# 2173

Delta R.T. -0.02 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

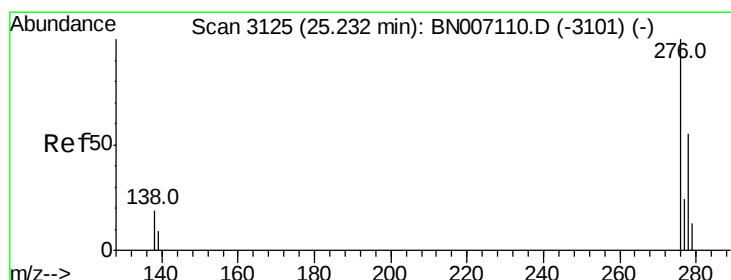
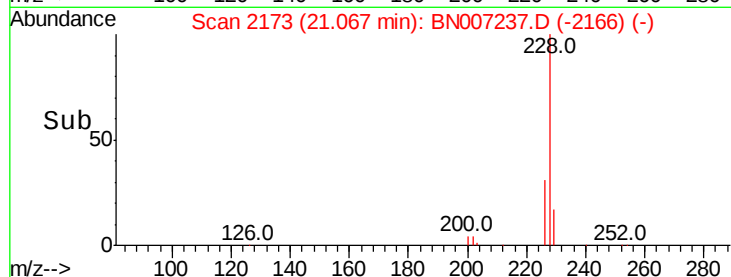
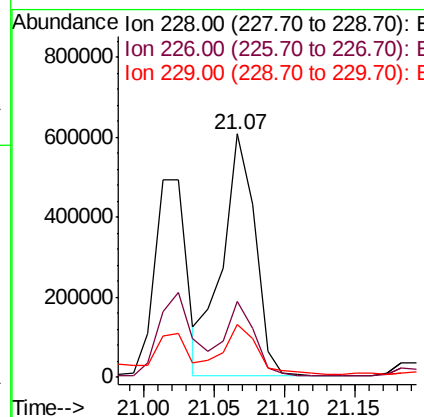
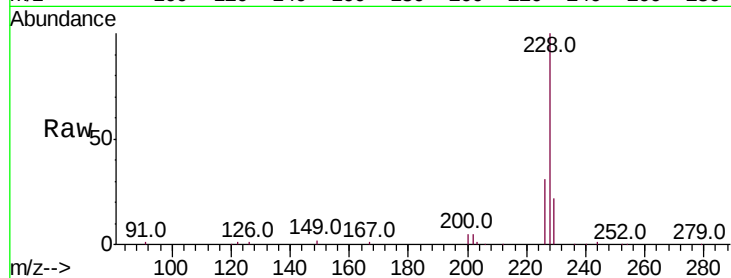
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	228	Resp:	979842
Ion Ratio	Lower	Upper	
228	100		
226	30.9	23.8	35.6
229	21.8	15.7	23.5

Manual Integrations
APPROVED



#31

Indeno(1,2,3-cd)pyrene

Concen: 3.944 ng

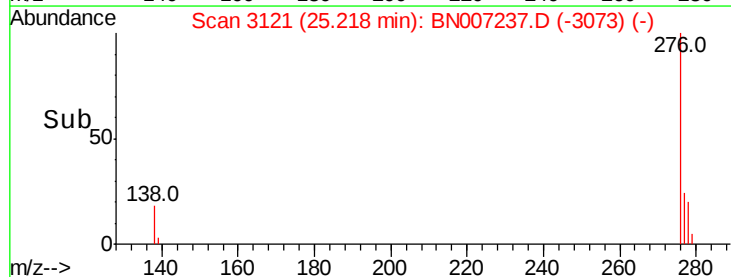
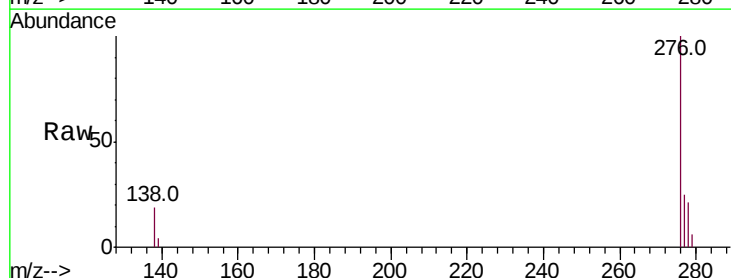
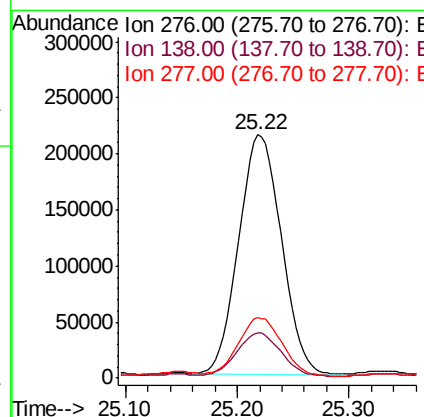
RT: 25.22 min Scan# 3121

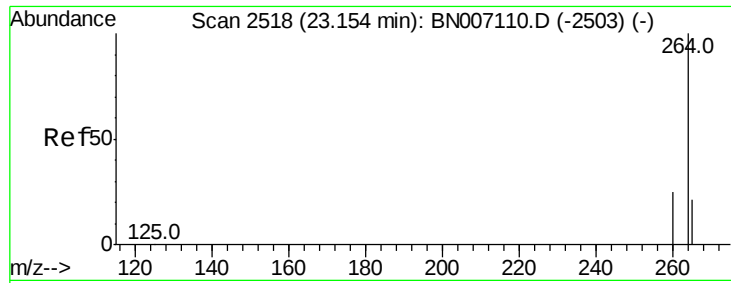
Delta R.T. -0.03 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	276	Resp:	567135
Ion Ratio	Lower	Upper	
276	100		
138	18.5	16.0	24.0
277	24.8	19.9	29.9



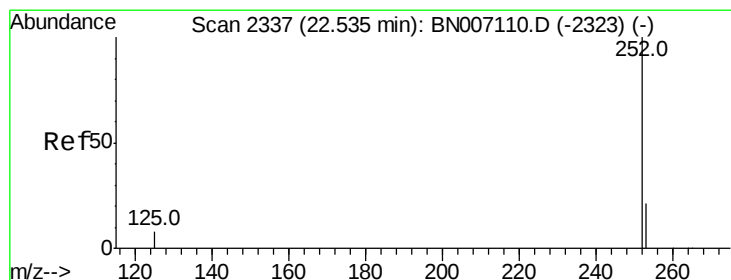
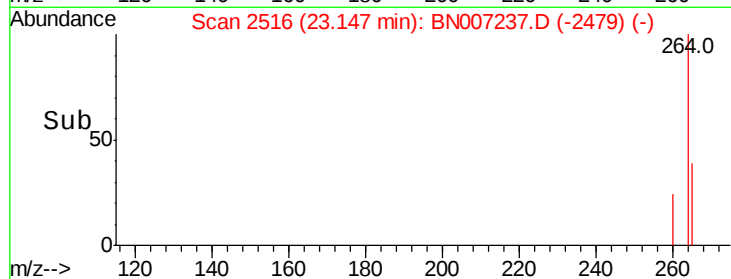
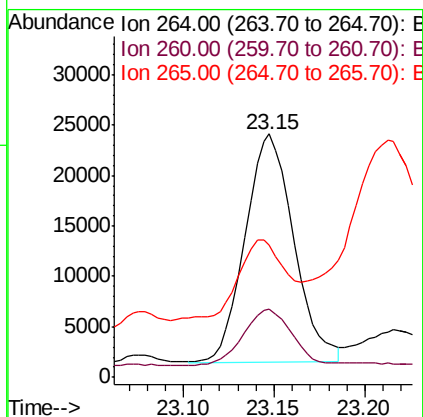
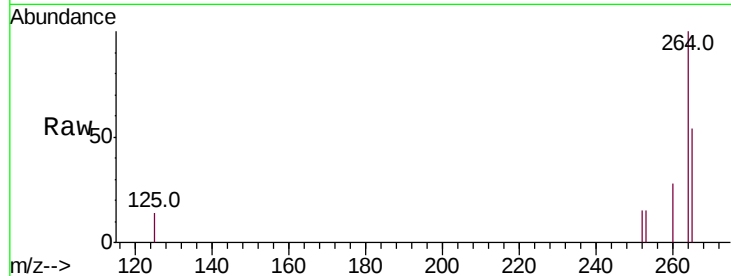


#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2516
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Instrument :
 BNA_N
 ClientSampleId :

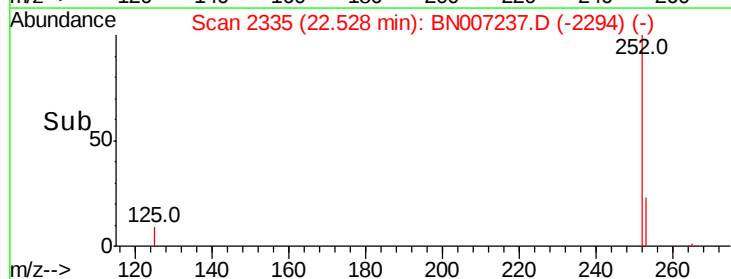
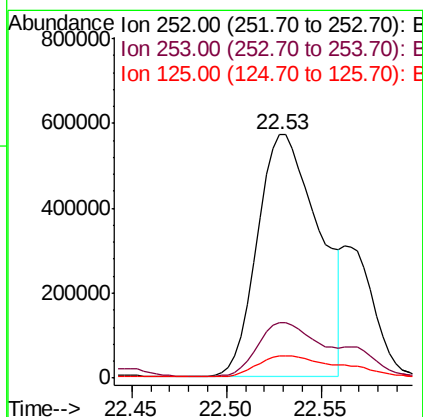
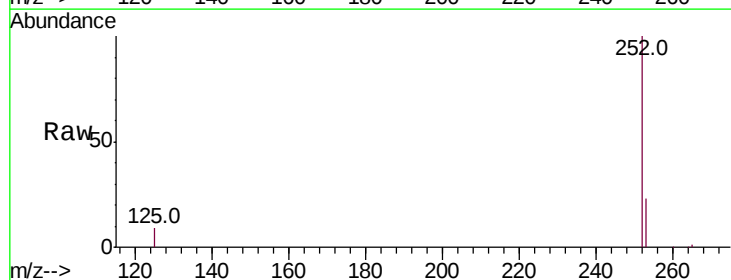
Tot Ion	Ratio	Lower	Upper
264	100		
260	27.9	19.8	29.8
265	54.1	26.2	39.4

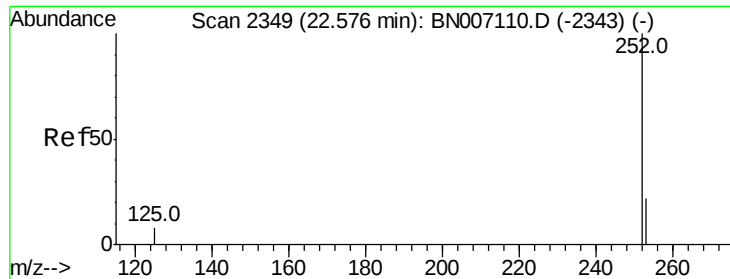
Manual Integrations
 APPROVED



#33
 Benzo(b)fluoranthene
 Concen: 8.897 ng
 RT: 22.53 min Scan# 2335
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	9.0	7.4	11.0



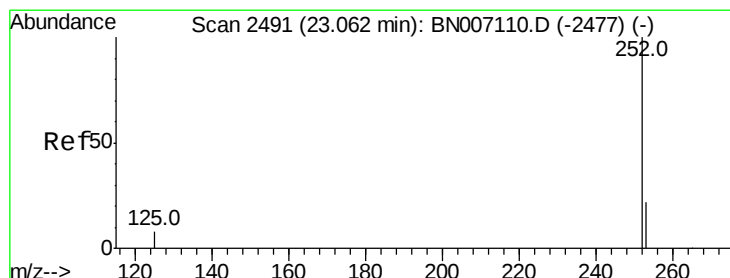
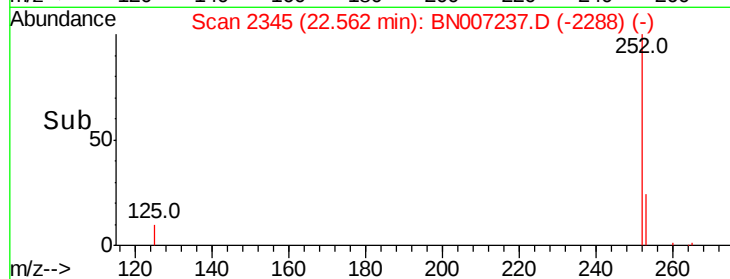
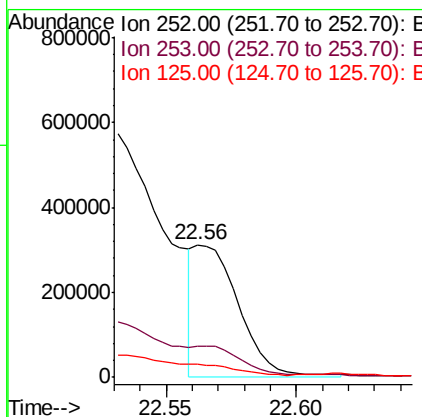
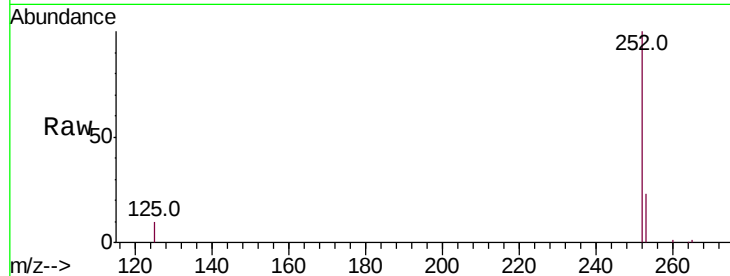


#34
Benzo(k)fluoranthene
Concen: 2.546 ng m
RT: 22.56 min Scan# 2345
Delta R.T. -0.03 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :

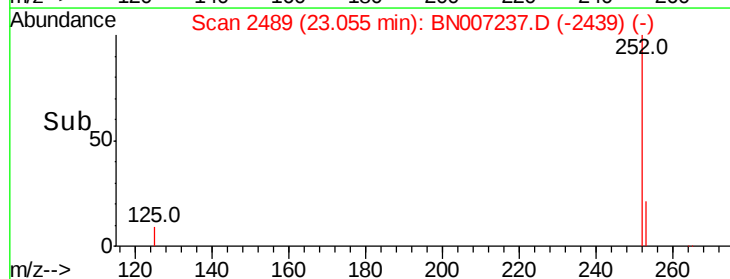
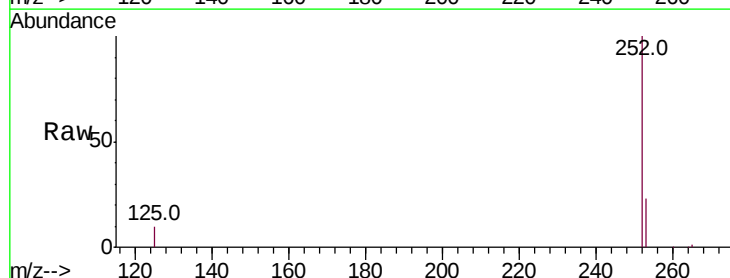
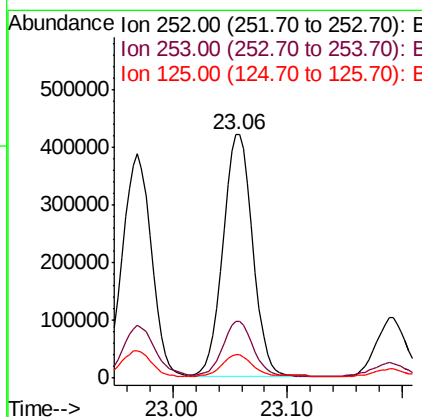
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	9.6	7.4	11.0

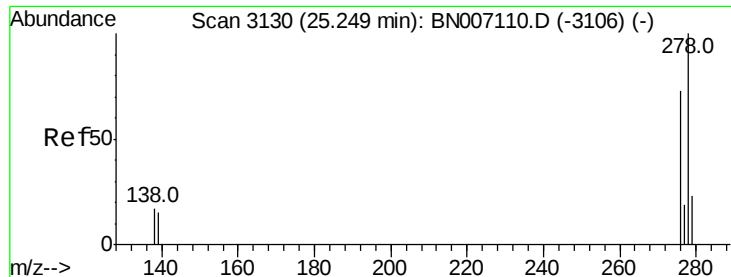
Manual Integrations
APPROVED



#35
Benzo(a)pyrene
Concen: 5.802 ng
RT: 23.06 min Scan# 2489
Delta R.T. -0.03 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.5	27.7
125	9.6	8.2	12.4



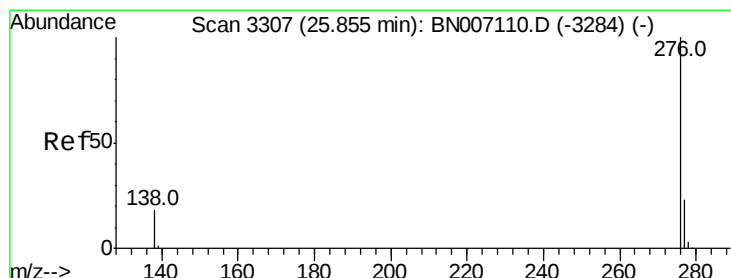
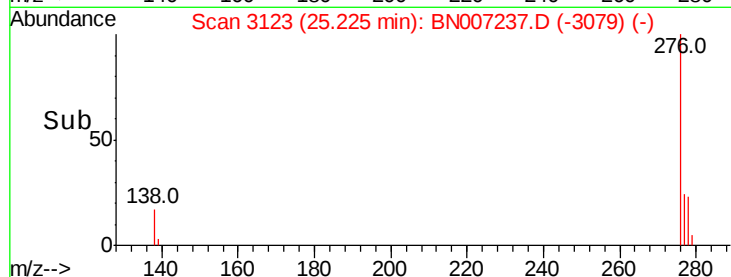
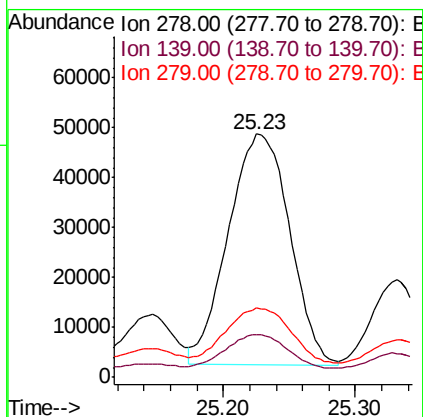
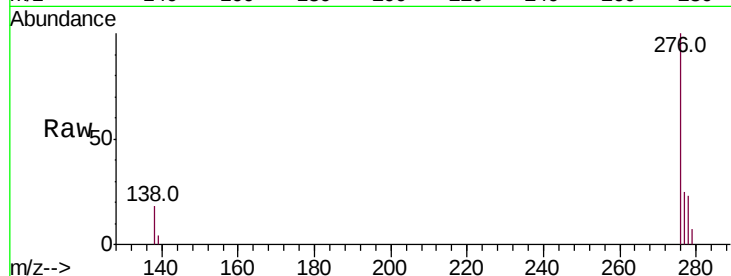


#36
Dibenzo(a,h)anthracene
Concen: 1.147 ng
RT: 25.23 min Scan# 3123
Delta R.T. -0.05 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.7	11.3	16.9#
279	28.5	19.3	28.9

Manual Integrations
APPROVED



#37
Benzo(g,h,i)perylene
Concen: 4.281 ng
RT: 25.85 min Scan# 3306
Delta R.T. -0.03 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.8	29.8
138	18.5	14.6	22.0

