

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007242.D
 Acq On : 17 Aug 2019 03:52
 Operator : HP/JU
 Sample : K4239-18
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Manual Integrations
 APPROVED

Quant Time: Aug 19 04:16:47 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	7.43	152	7741	0.40	ng	0.00
6) Naphthalene-d8	10.17	136	29732	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	18688	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	37373	0.40	ng	0.00
26) Chrysene-d12	21.03	240	40370	0.40	ng	-0.02
32) Perylene-d12	23.15	264	56279	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	4911	0.26	ng	0.00
4) Phenol-d6	6.61	99	6278	0.27	ng	0.00
7) Nitrobenzene-d5	8.55	82	6394	0.27	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	10153	0.18	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1931	0.19	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	831	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	21583	0.16	ng	-0.01
28) Terphenyl-d14	19.48	244	21948	0.20	ng	-0.02

Target Compounds				Qvalue		
8) Naphthalene	10.23	128	74769	0.897	ng	99
11) 2-Methylnaphthalene	11.86	142	67187	1.137	ng	97
15) Acenaphthylene	13.79	152	481528	4.930	ng	99
16) Acenaphthene	14.13	154	68662	1.097	ng	92
17) Fluorene	15.12	166	158460	1.693	ng	# 83
22) Phenanthrene	16.87	178	4126438	36.842	ng	99
23) Anthracene	16.95	178	679991	6.645	ng	98
25) Fluoranthene	18.90	202	4971526	34.699	ng	97
27) Pyrene	19.26	202	7834170	55.336	ng	# 93
29) Benzo(a)anthracene	21.02	228	3666074	24.832	ng	92
30) Chrysene	21.08	228	4305415	30.016	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	1826365	11.553	ng	98
33) Benzo(b)fluoranthene	22.54	252	3696047m	19.152	ng	
34) Benzo(k)fluoranthene	22.57	252	954543m	5.008	ng	
35) Benzo(a)pyrene	23.07	252	3105619	17.751	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	584409	3.348	ng	# 91
37) Benzo(a,h,i)perylene	25.87	276	2182376	12.154	ng	100

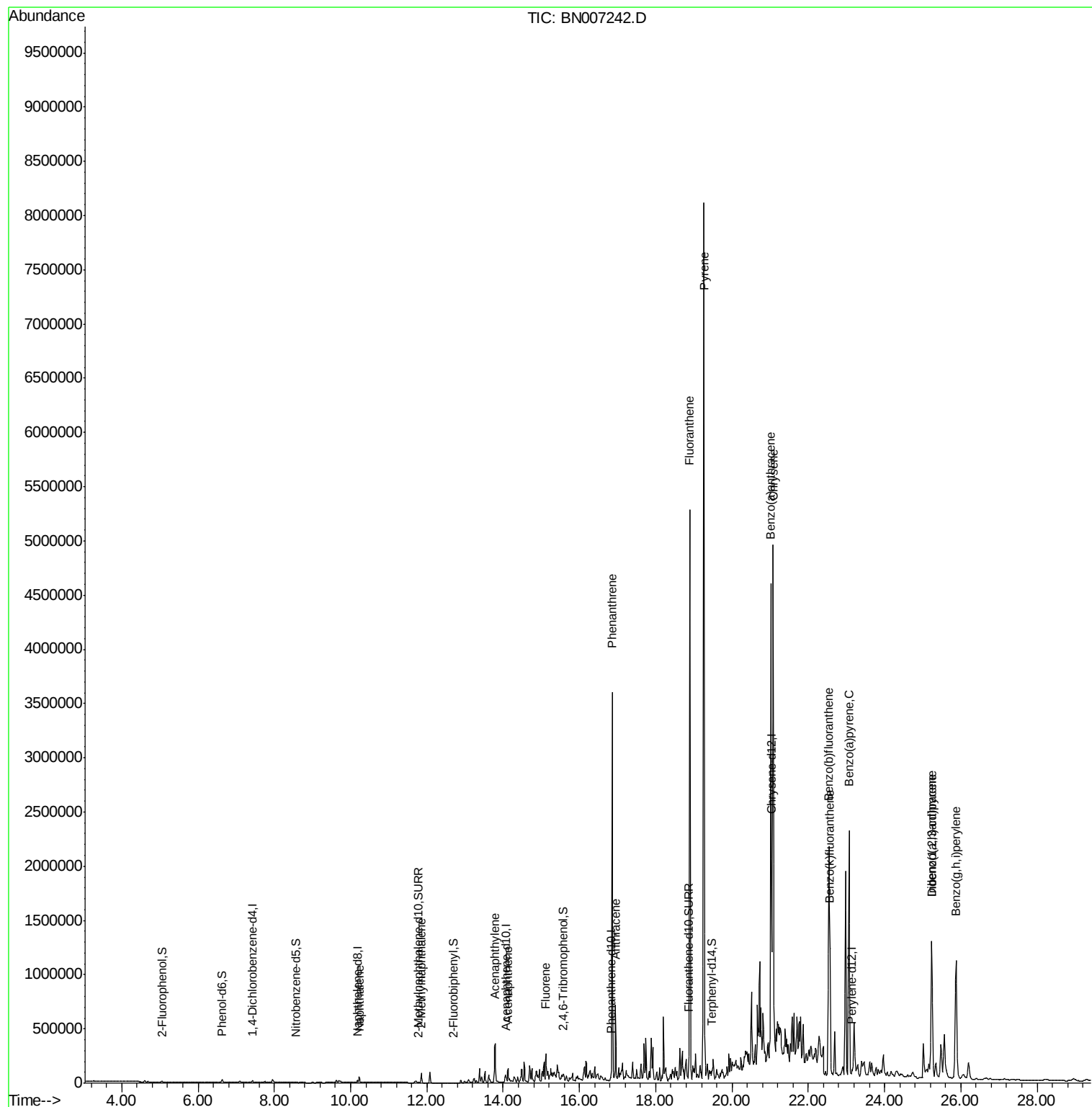
(#) = qualifier out of range (m) = manual integration (+) = signals summed

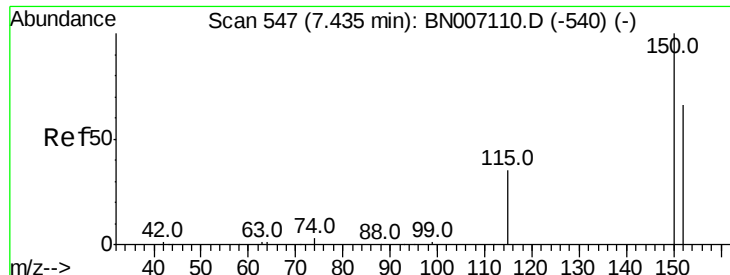
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Manual Integrations
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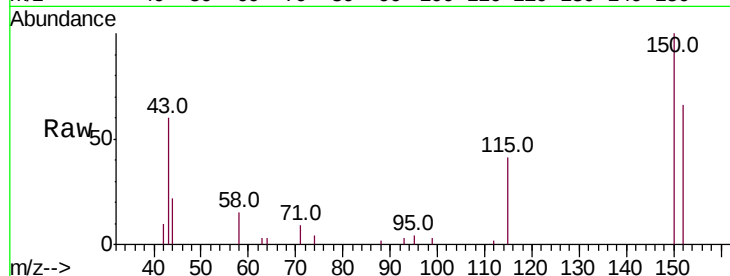
#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

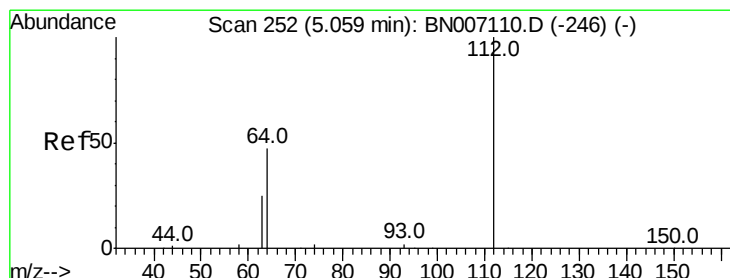
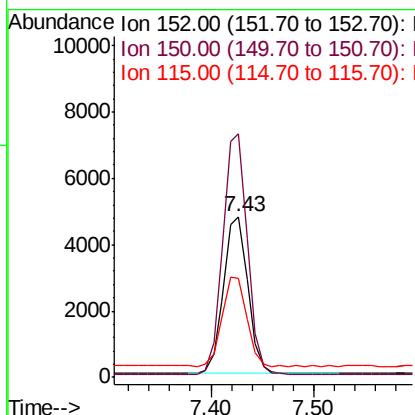
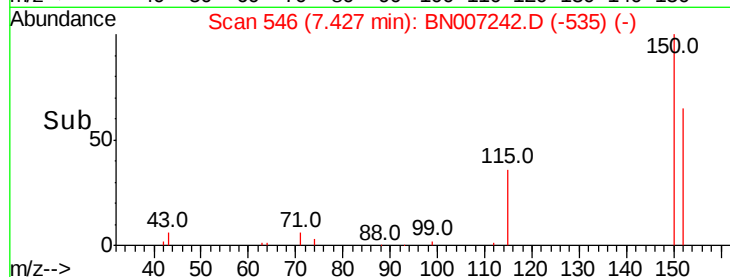
Instrument :
BNA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.7	121.7	182.5
115	61.5	46.2	69.4

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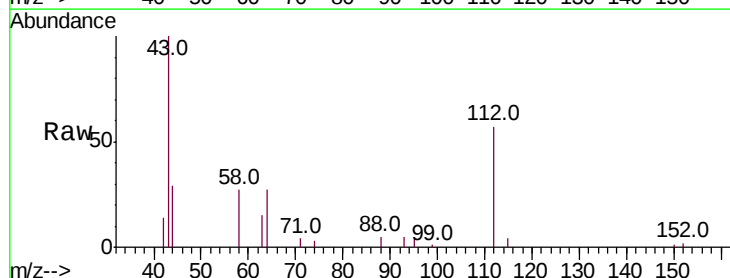
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



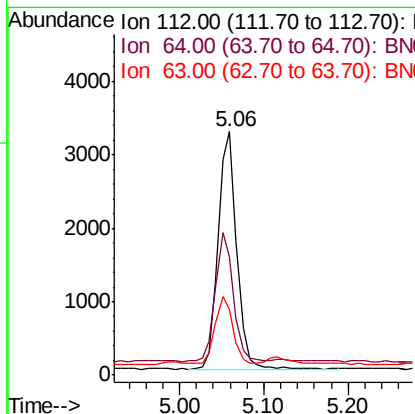
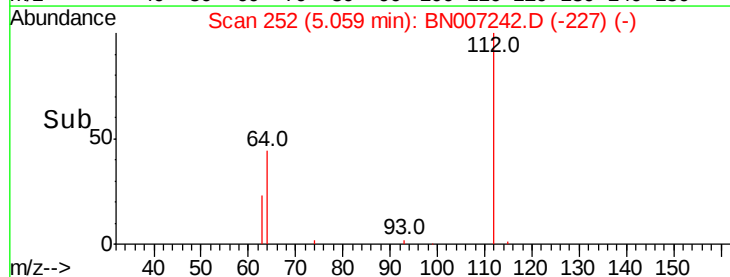
#3

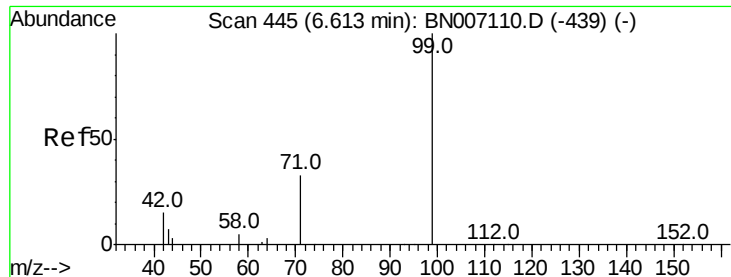
2-Fluorophenol
Concen: 0.264 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.0	42.6	63.8
63	27.5	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: 0.272 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

Tot Ion: 99 Resp: 6278

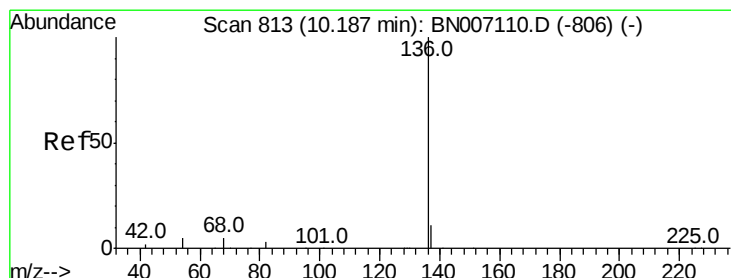
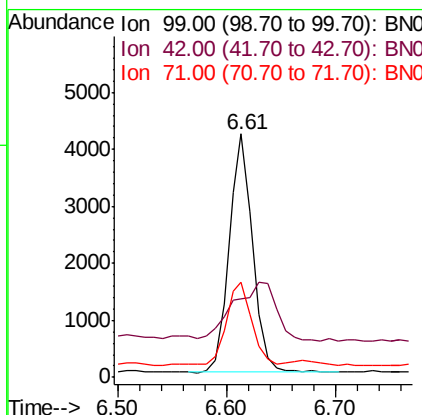
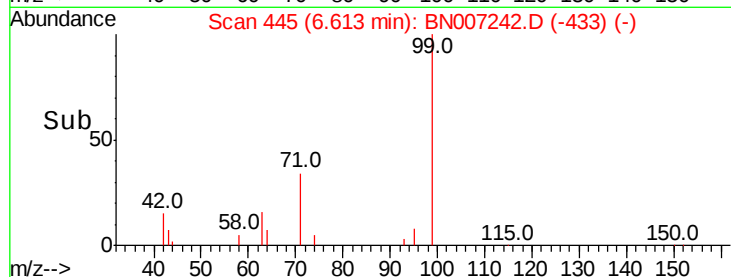
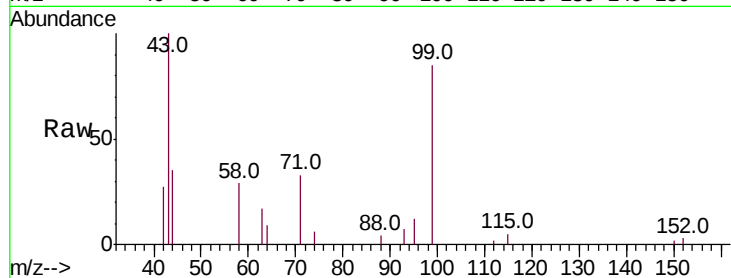
Ion Ratio Lower Upper

99 100

42 44.5 15.8 23.6#

71 37.3 27.0 40.4

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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: BN007242.D

Acq: 17 Aug 2019 03:52

Tgt Ion: 136 Resp: 29732

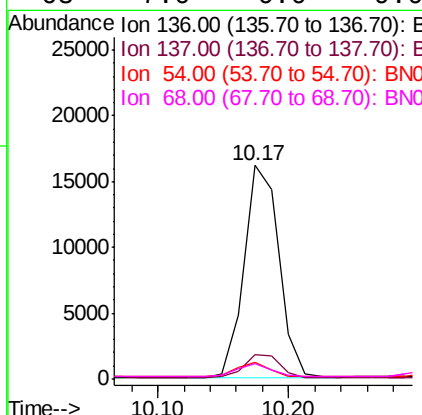
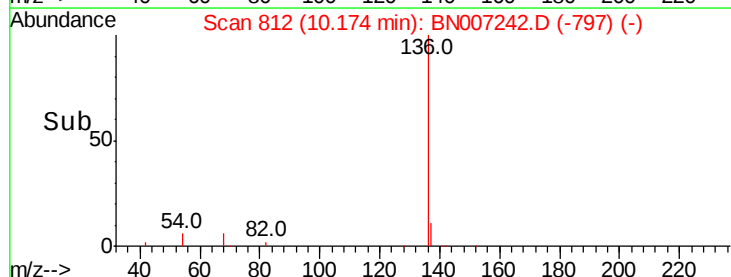
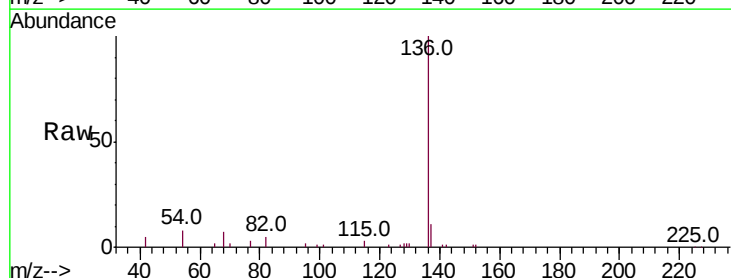
Ion Ratio Lower Upper

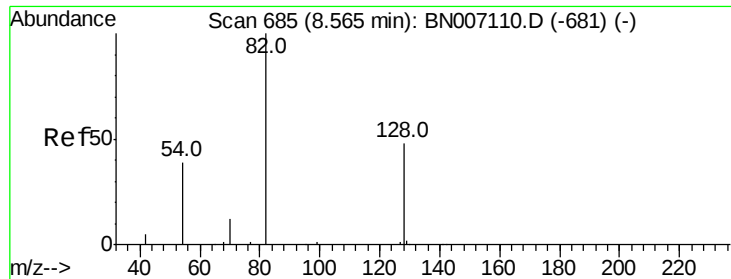
136 100

137 11.4 9.4 14.0

54 7.8 6.6 9.8

68 7.0 6.0 9.0





#7

Nitrobenzene-d5

Concen: 0.267 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

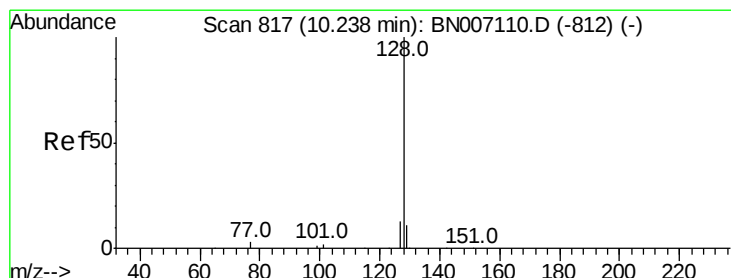
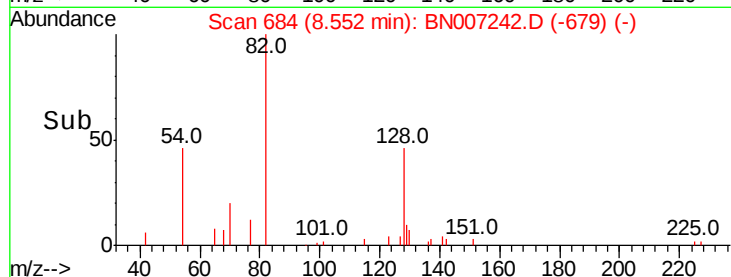
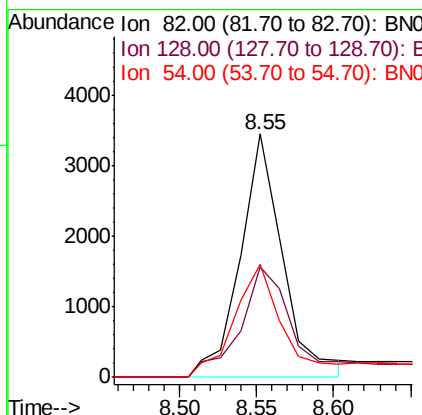
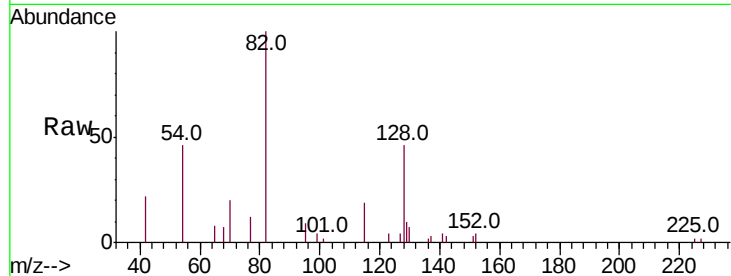
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	82	Resp:	6394
Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.6	51.8
54	46.3	36.2	54.4

Manual Integrations
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#8

Naphthalene

Concen: 0.897 ng

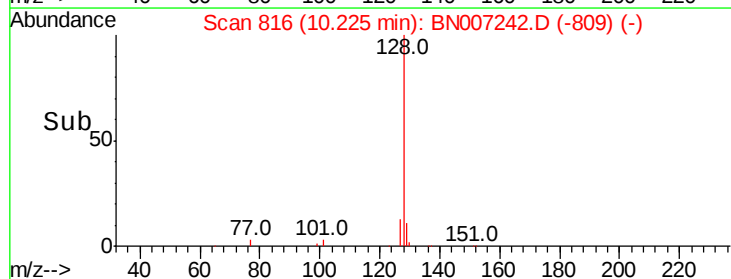
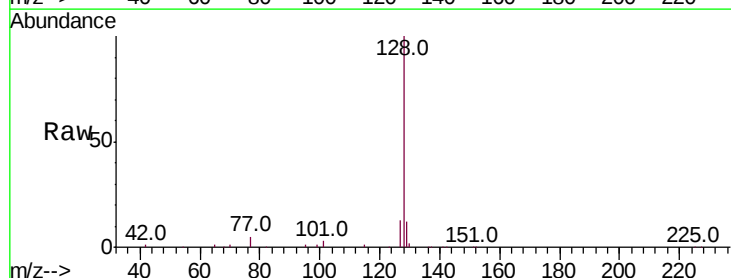
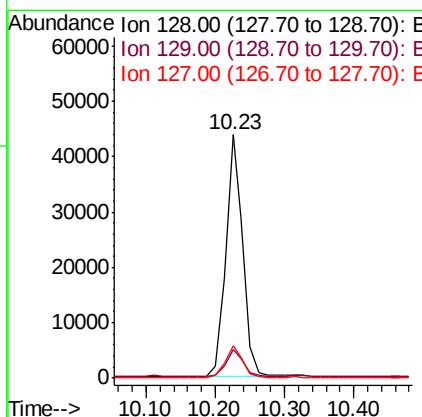
RT: 10.23 min Scan# 816

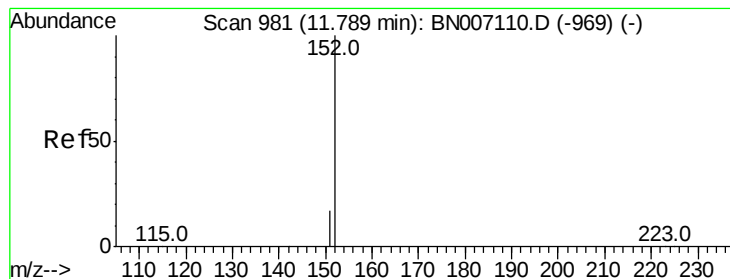
Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Tgt Ion:	128	Resp:	74769
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.4	14.2
127	13.4	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.183 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

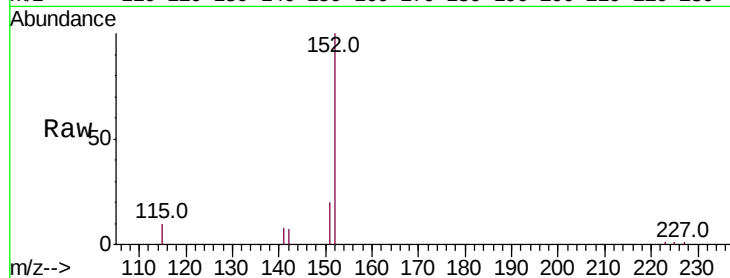
Tot Ion:152 Resp: 10153

Ion Ratio Lower Upper

152 100

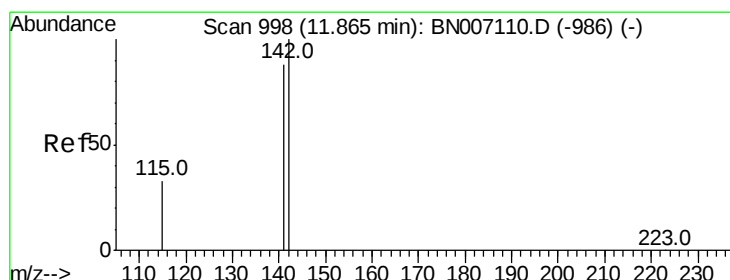
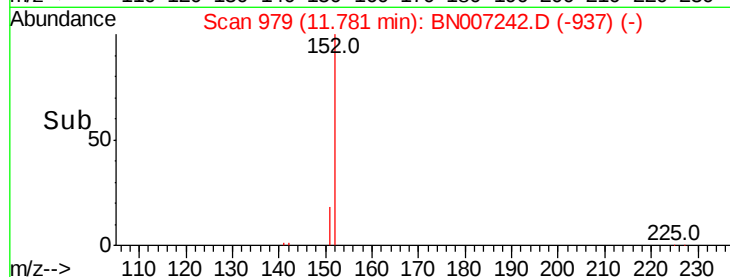
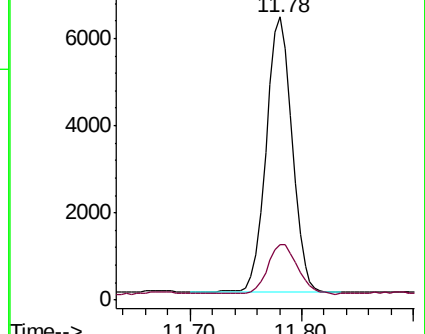
151 20.6 15.5 23.3

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 1.137 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

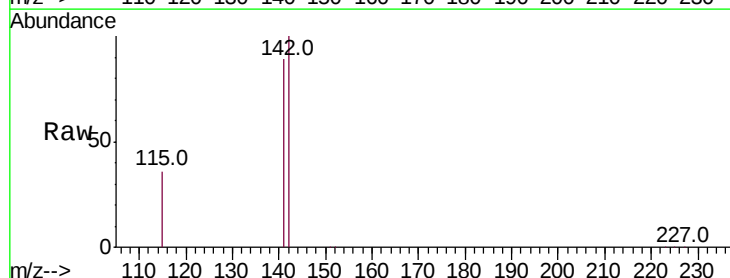
Tgt Ion:142 Resp: 67187

Ion Ratio Lower Upper

142 100

141 89.1 69.0 103.6

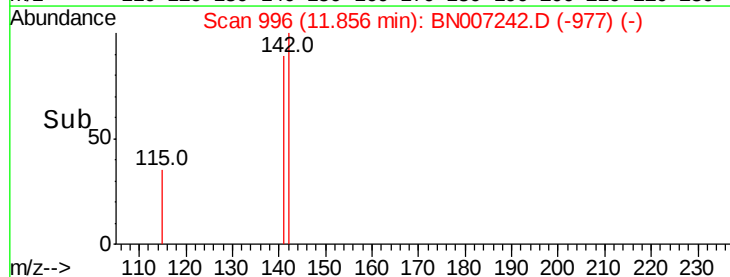
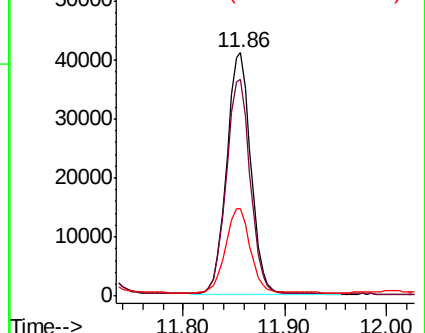
115 35.8 27.1 40.7

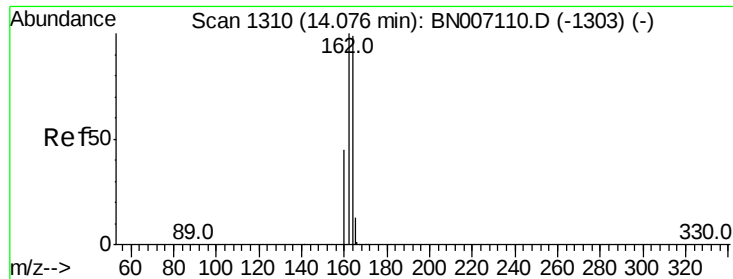


Abundance Ion 142.00 (141.70 to 142.70): E

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: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

Tot Ion:164 Resp: 18688

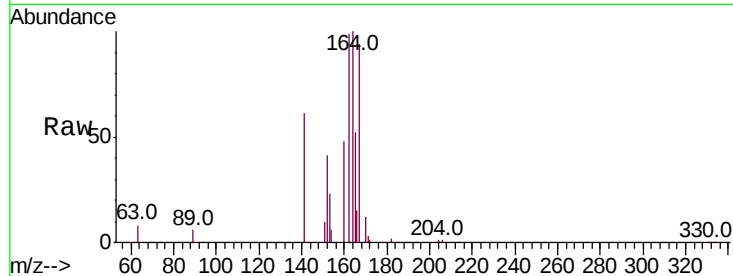
Ion Ratio Lower Upper

164 100

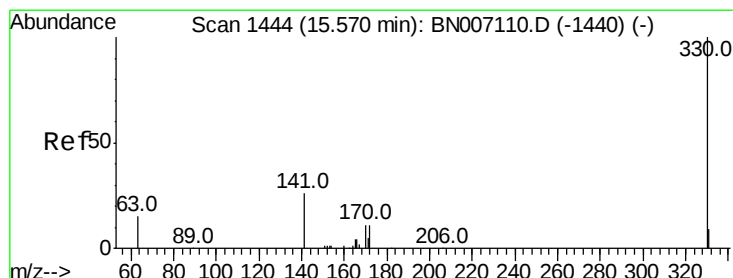
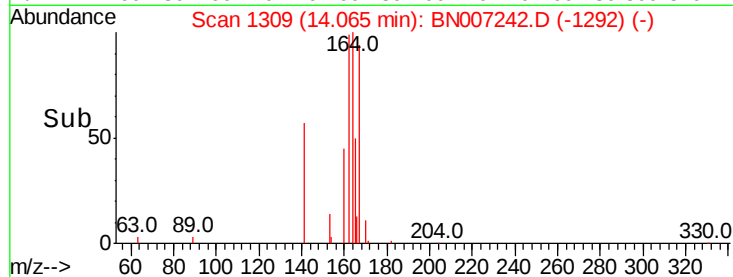
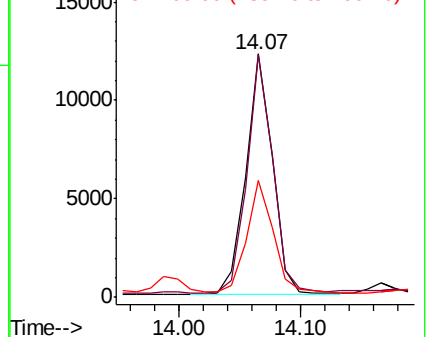
162 99.4 82.2 123.4

160 48.1 38.3 57.5

Manual Integrations
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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.192 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

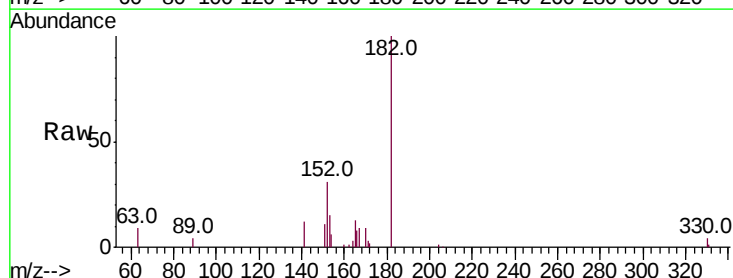
Tgt Ion:330 Resp: 1931

Ion Ratio Lower Upper

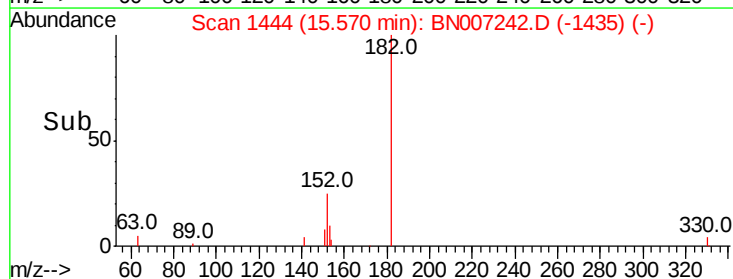
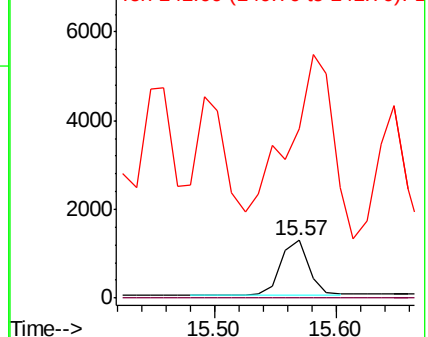
330 100

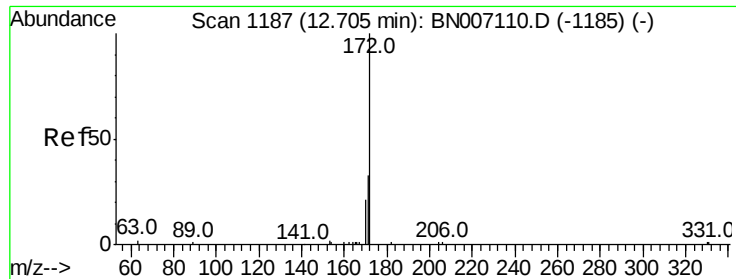
332 0.0 0.0 0.0

141 567.6 33.6 50.4#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



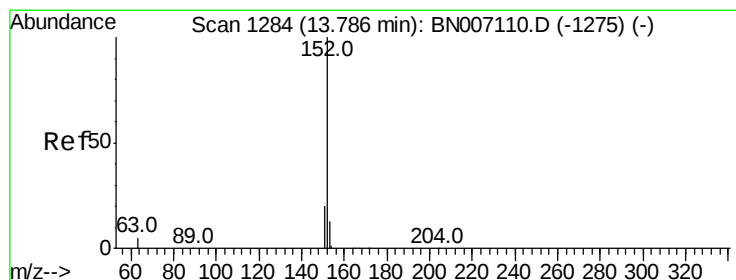
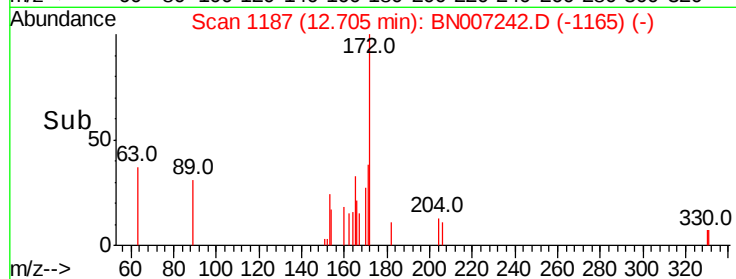
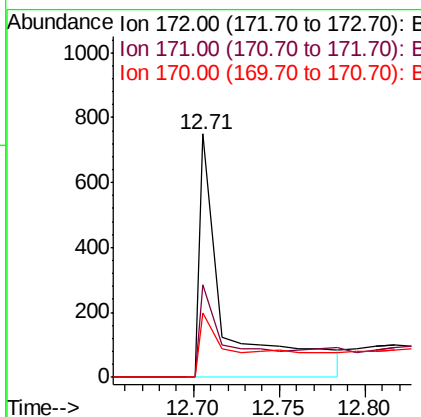
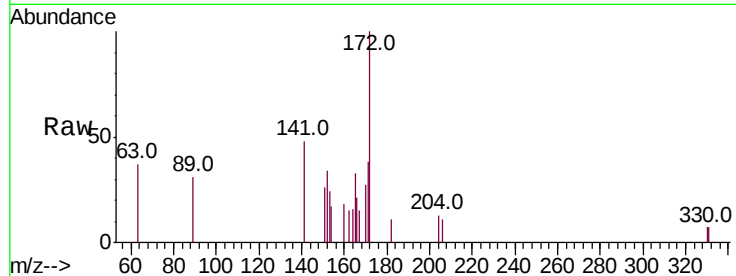


#14
2-Fluorobiphenyl
Concen: 0.031 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Instrument :
BNA_N
ClientSampled :

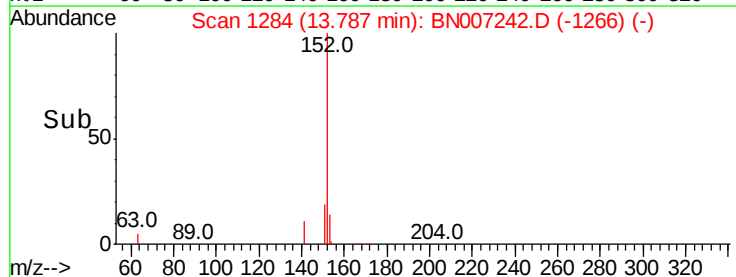
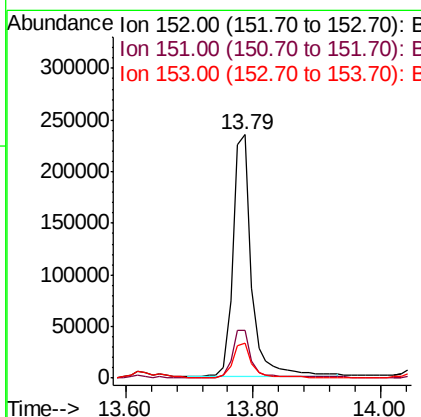
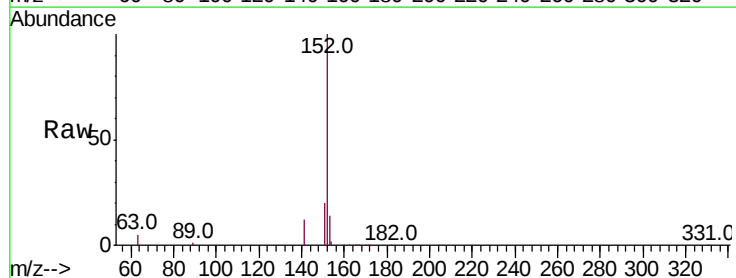
Tot Ion	Ratio	Lower	Upper
172	100		
171	37.7	26.3	39.5
170	26.5	17.0	25.4

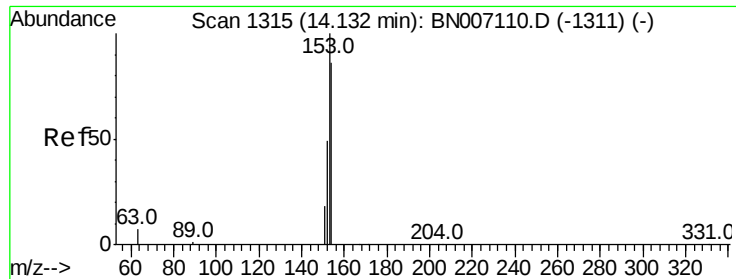
Manual Integrations
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#15
Acenaphthylene
Concen: 4.930 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	14.1	10.4	15.6





#16

Acenaphthene

Concen: 1.097 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

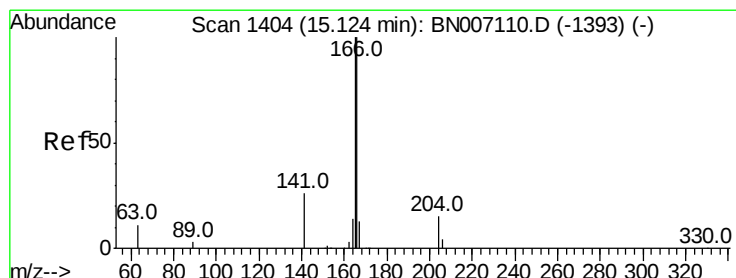
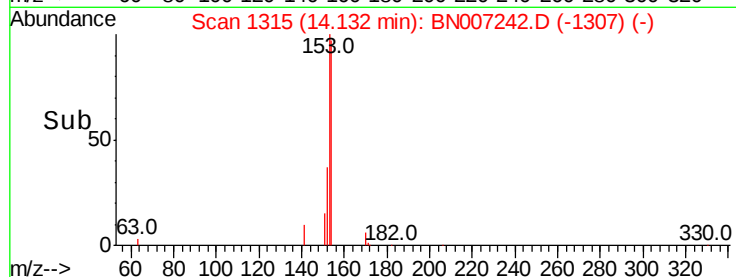
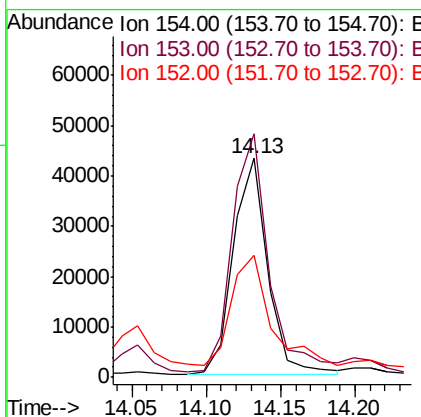
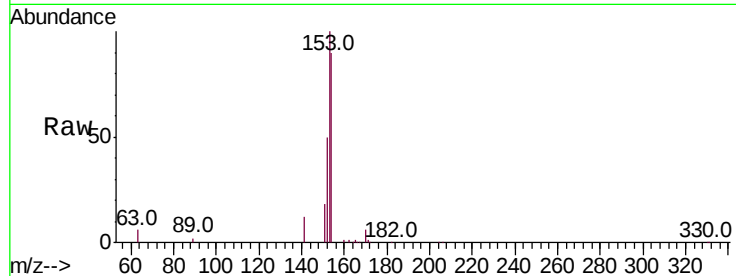
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	154	Resp:	68662
Ion Ratio	Lower	Upper	
154	100		
153	117.6	89.5	134.3
152	65.3	44.8	67.2

Manual Integrations
APPROVED



#17

Fluorene

Concen: 1.693 ng

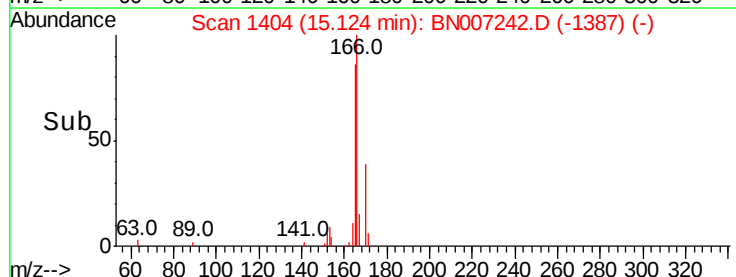
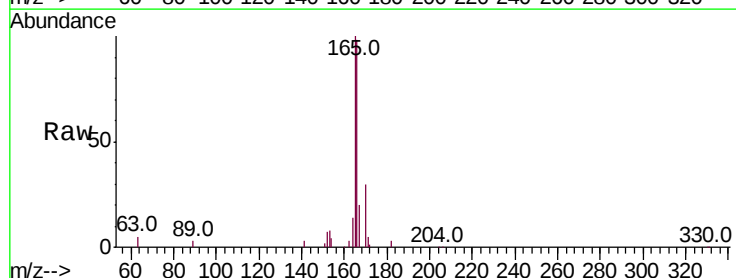
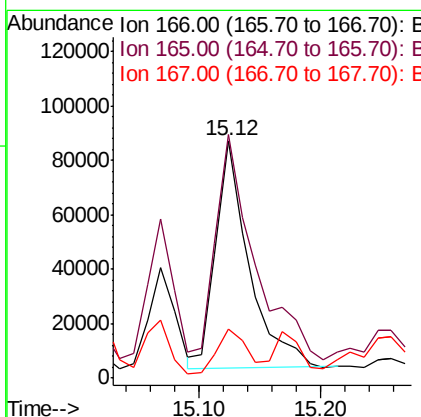
RT: 15.12 min Scan# 1404

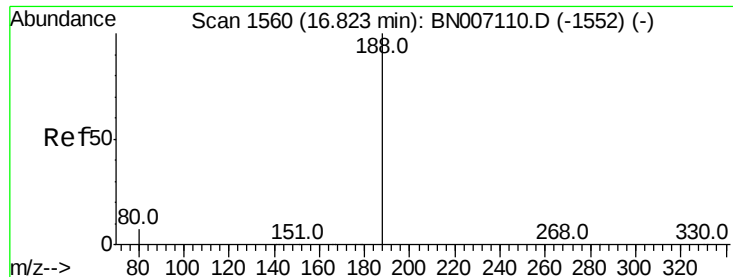
Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Tgt Ion:	166	Resp:	158460
Ion Ratio	Lower	Upper	
166	100		
165	115.6	77.9	116.9
167	16.9	10.9	16.3#



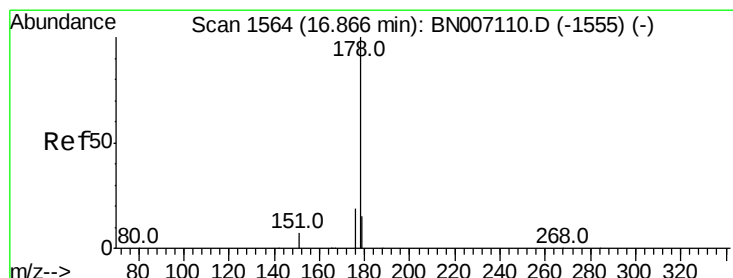
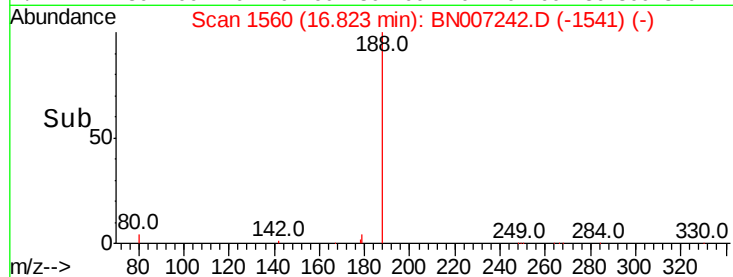
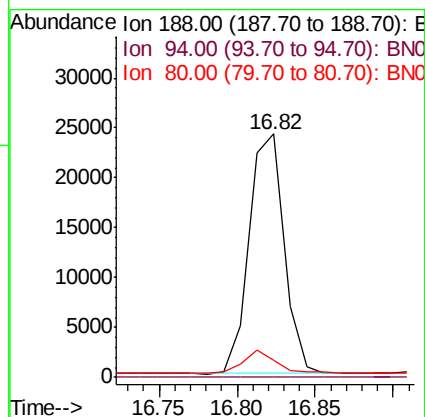
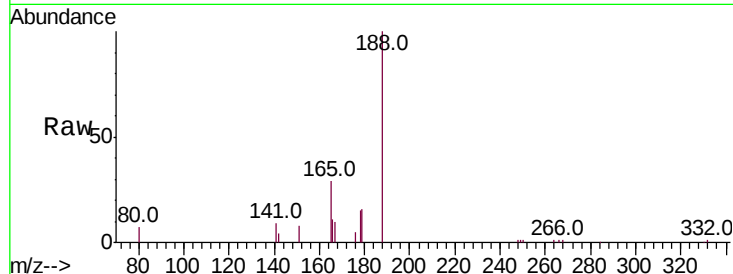


#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Instrument :
BNA_N
ClientSampleId :

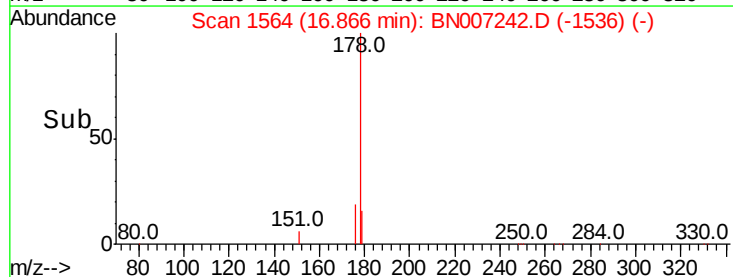
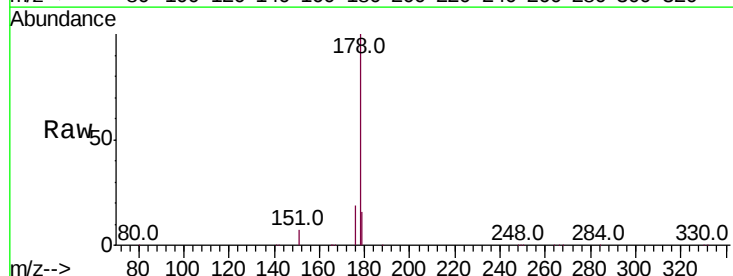
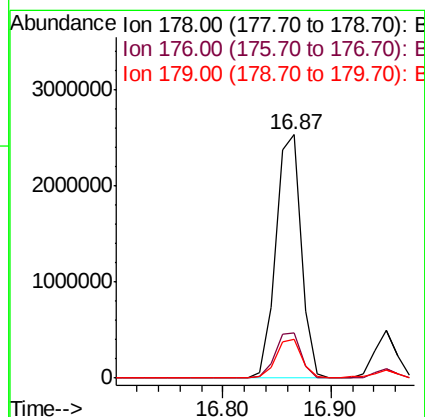
Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.9	7.8	11.6

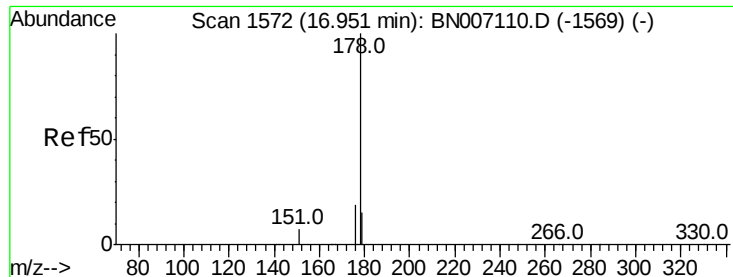
Manual Integrations
APPROVED



#22
Phenanthrene
Concen: 36.842 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	16.1	12.3	18.5



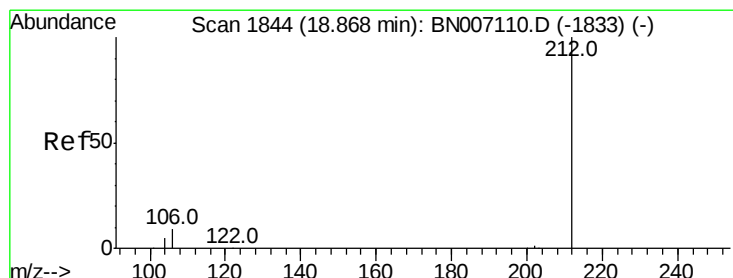
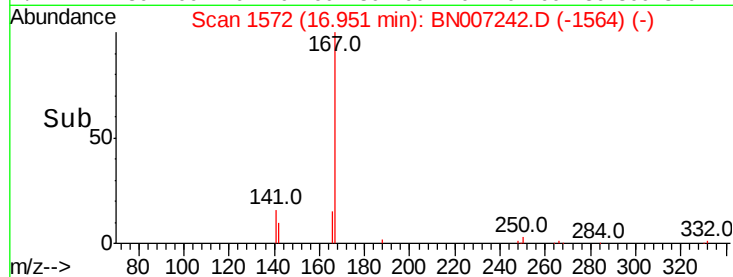
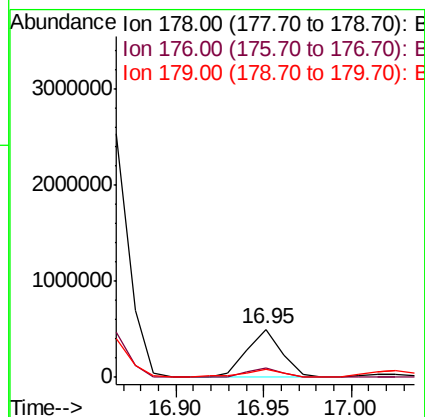
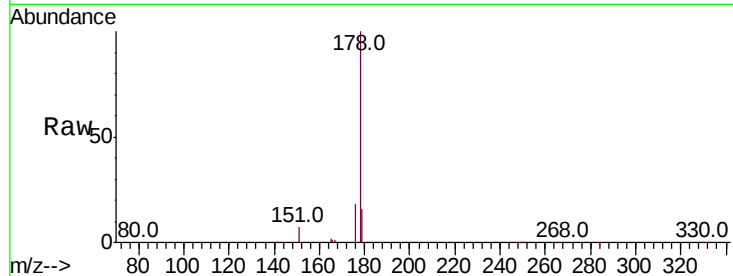


#23
 Anthracene
 Concen: 6.645 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Instrument :
 BNA_N
 ClientSampleId :

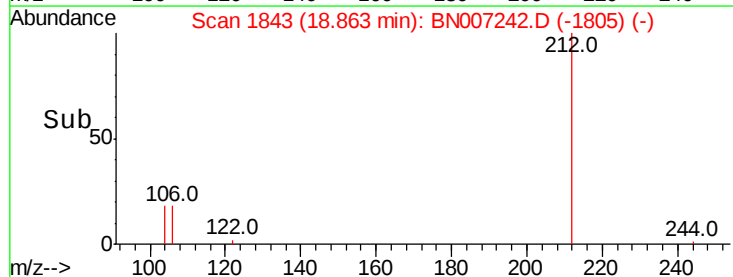
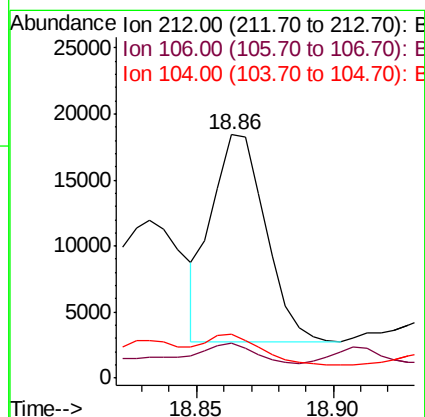
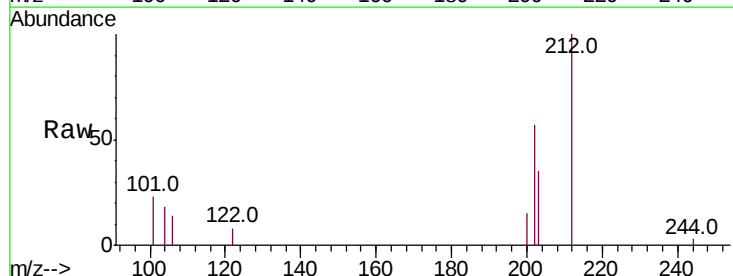
Tot Ion:178	Resp:	679991
Ion Ratio	Lower	Upper
178	100	
176	18.5	14.6 21.8
179	17.1	12.5 18.7

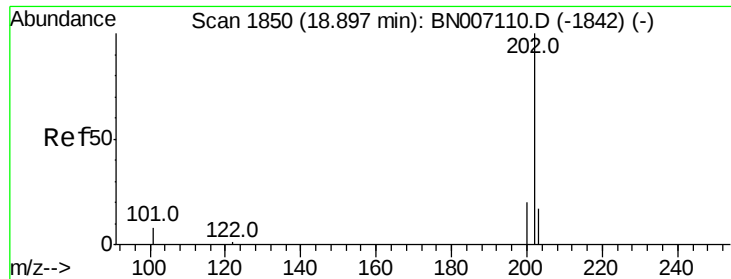
Manual Integrations
 APPROVED



#24
 Fluoranthene-d10
 Concen: 0.163 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Tgt Ion:212	Resp:	21583
Ion Ratio	Lower	Upper
212	100	
106	15.0	8.2 12.2#
104	14.6	4.5 6.7#



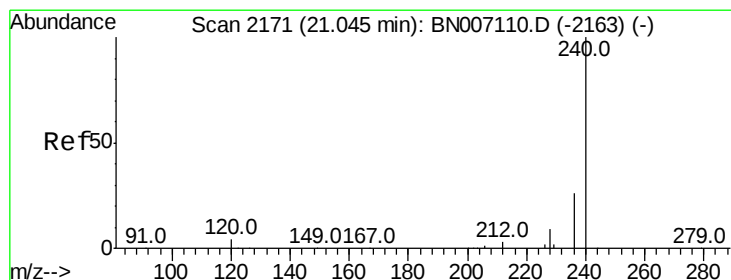
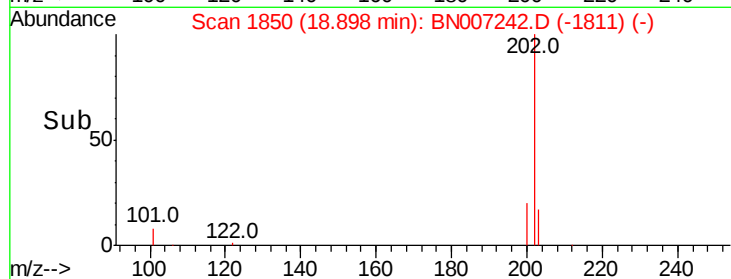
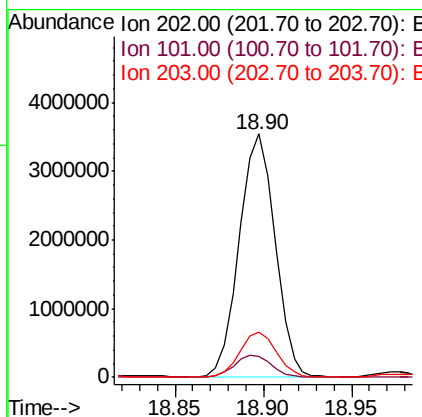
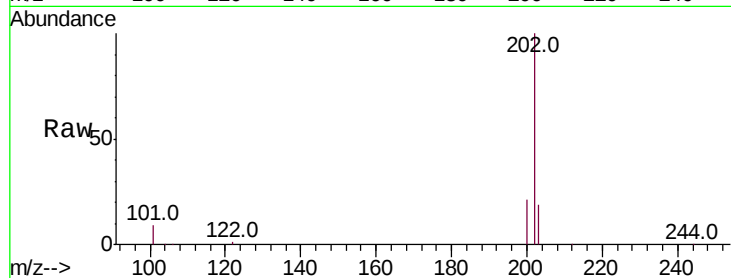


#25
 Fluoranthene
 Concen: 34.699 ng
 RT: 18.90 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Instrument :
 BNA_N
 ClientSampleId :

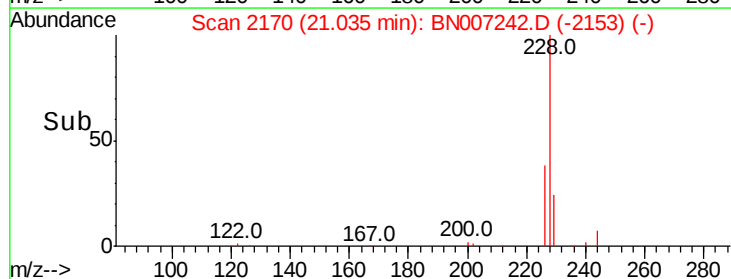
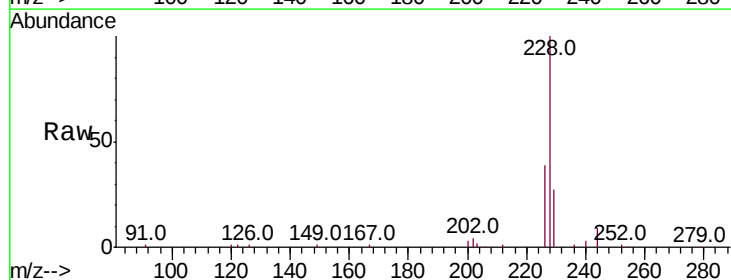
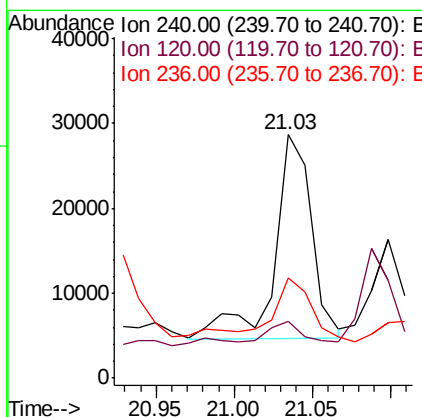
Tot Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.0	10.4
203	18.9	13.8	20.8

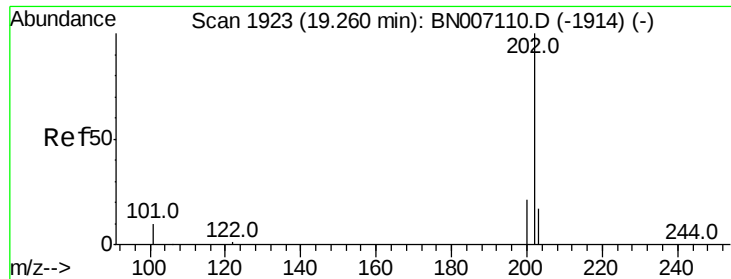
Manual Integrations
 APPROVED



#26
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.03 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	23.3	4.0	6.0#
236	41.3	21.3	31.9#



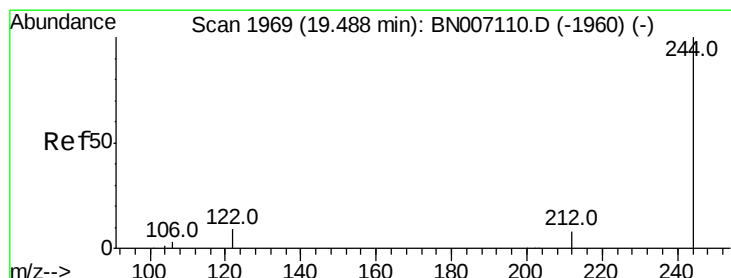
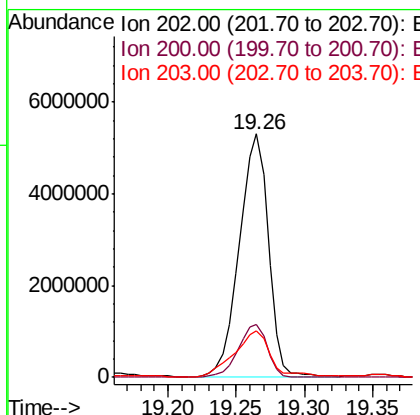
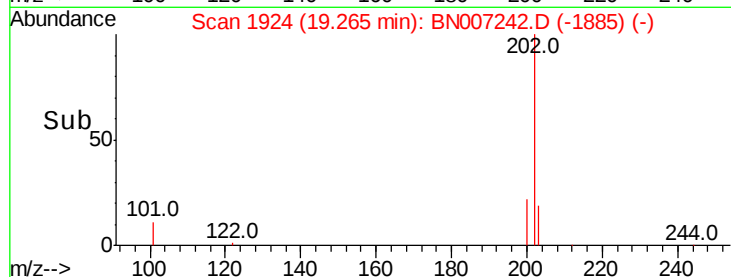
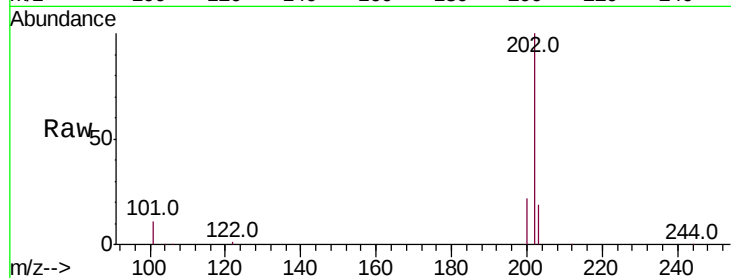


#27
Pvrene
Concen: 55.336 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Instrument :
BNA_N
ClientSampleId :

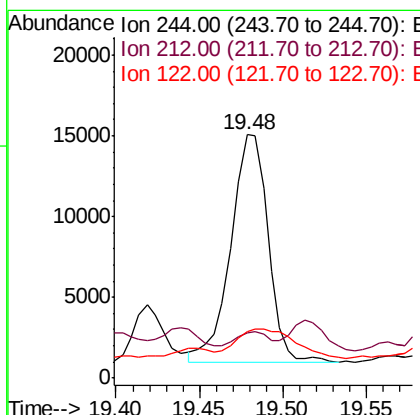
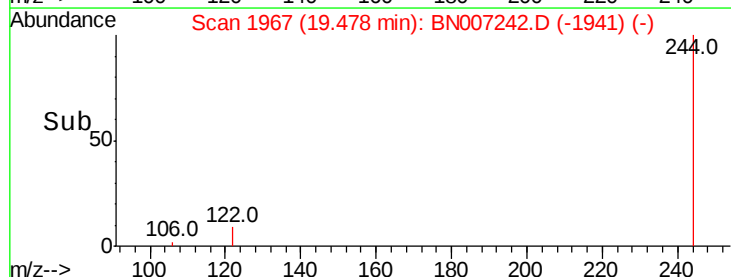
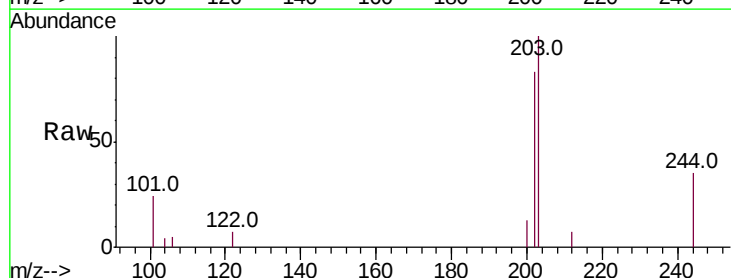
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.6	24.8
203	23.3	14.0	21.0

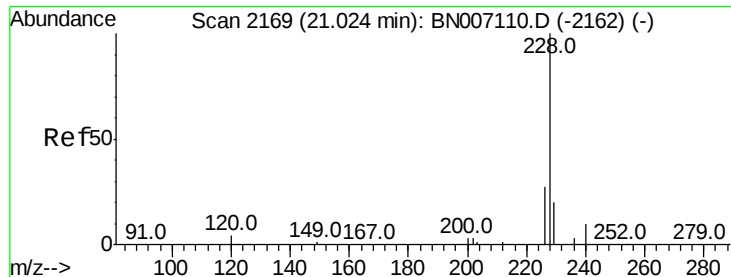
Manual Integrations
APPROVED



#28
Terphenyl-d14
Concen: 0.199 ng
RT: 19.48 min Scan# 1967
Delta R.T. -0.02 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
244	100		
212	18.7	6.2	9.2
122	19.0	7.4	11.2



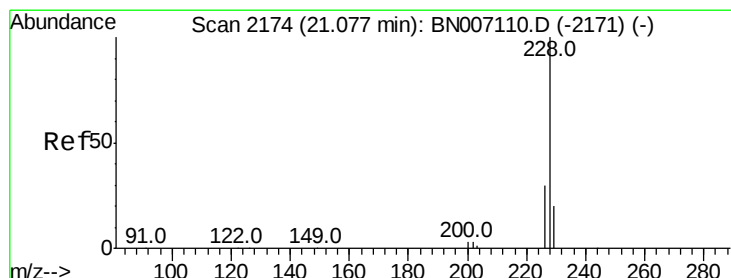
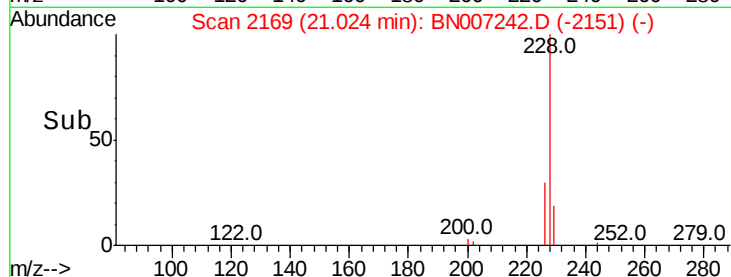
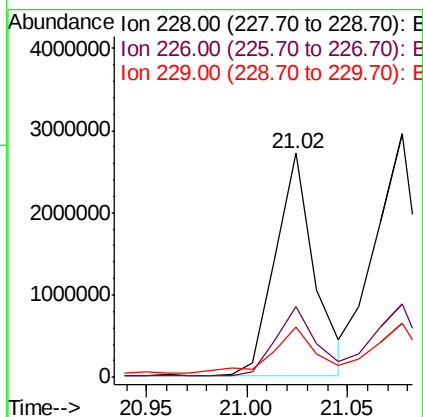
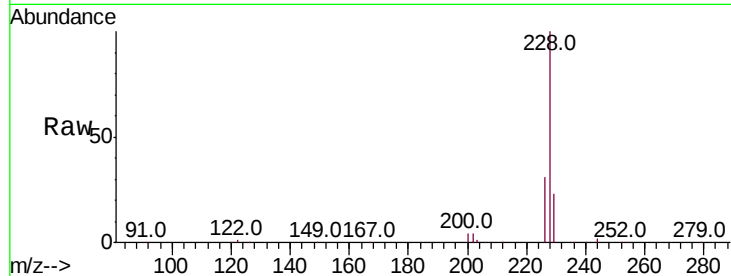


#29
Benzo(a)anthracene
Concen: 24.832 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Instrument :
BNA_N
ClientSampleId :

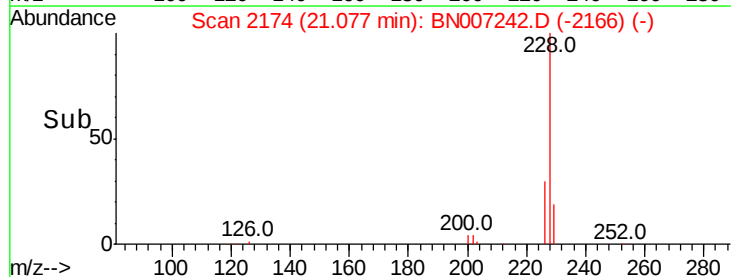
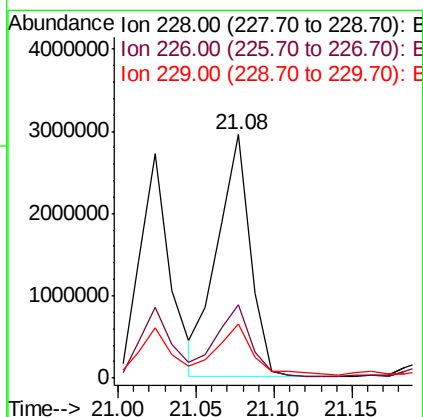
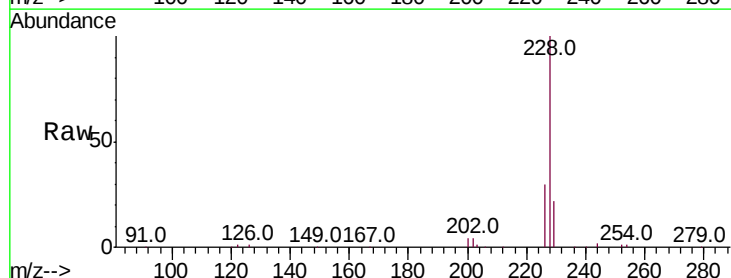
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	21.8	32.6
229	22.7	15.6	23.4

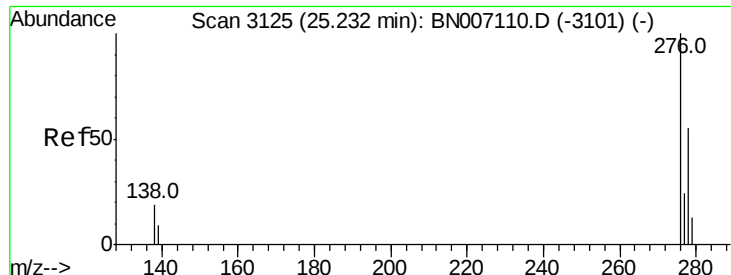
Manual Integrations
APPROVED



#30
Chrysene
Concen: 30.016 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.8	35.6
229	22.2	15.7	23.5



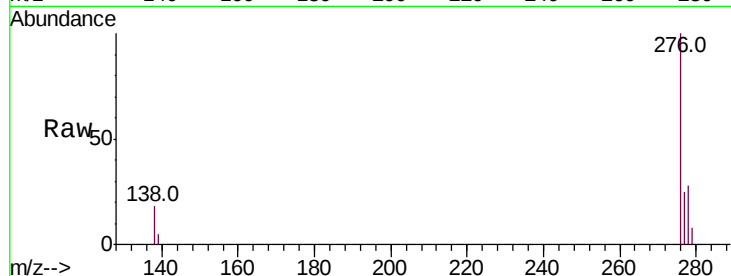


#31
 Indeno(1,2,3-cd)pyrene
 Concen: 11.553 ng
 RT: 25.24 min Scan# 3127
 Delta R.T. -0.01 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

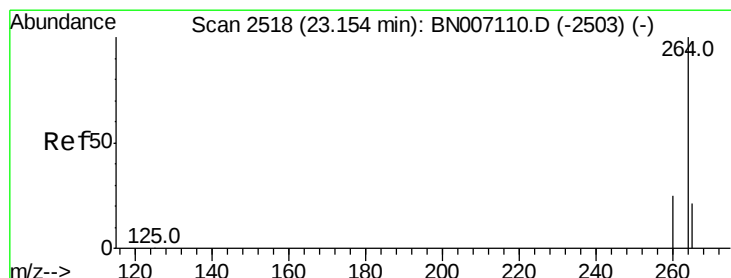
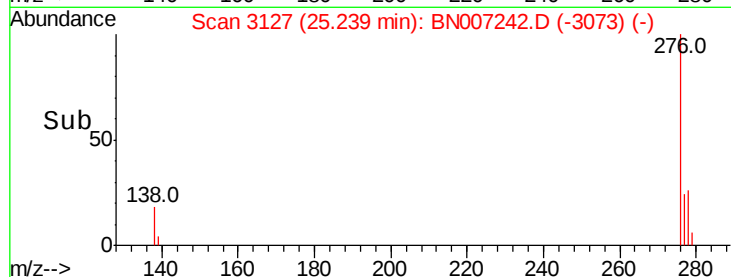
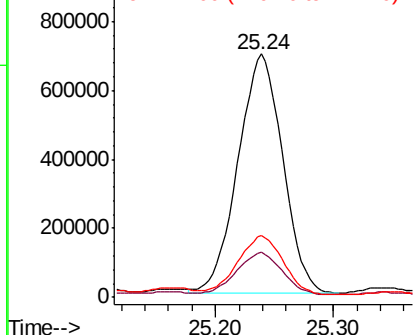
Instrument :
 BNA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.1	16.0	24.0
277	25.1	19.9	29.9

Manual Integrations
 APPROVED

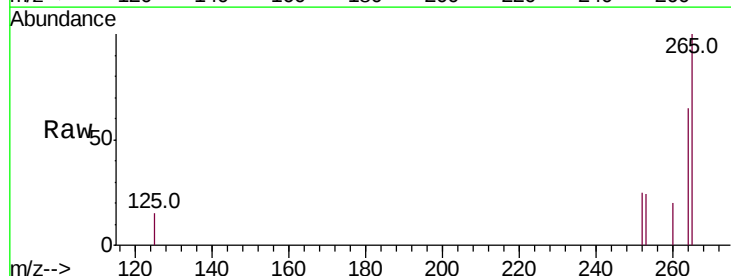


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

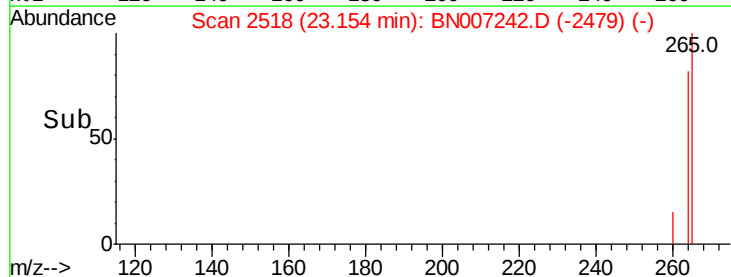
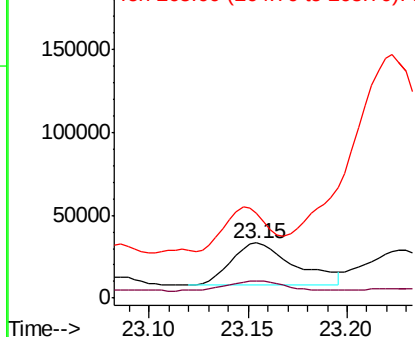


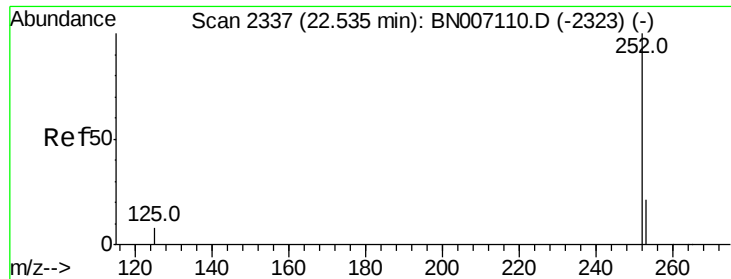
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	31.2	19.8	29.8#
265	153.4	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: 19.152 ng m

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

Tot Ion:252 Resp: 3696047

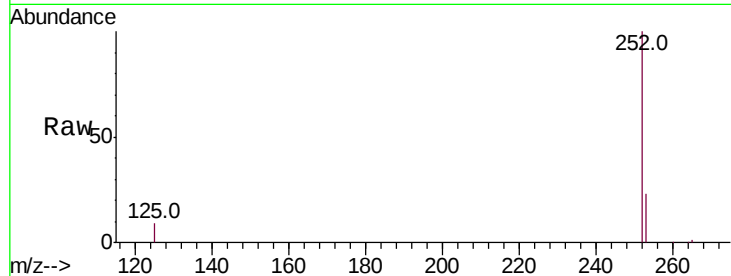
Ion Ratio Lower Upper

252 100

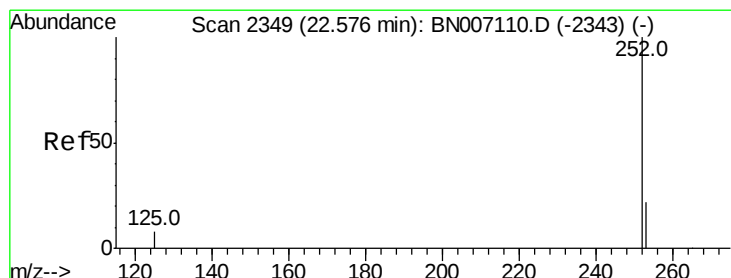
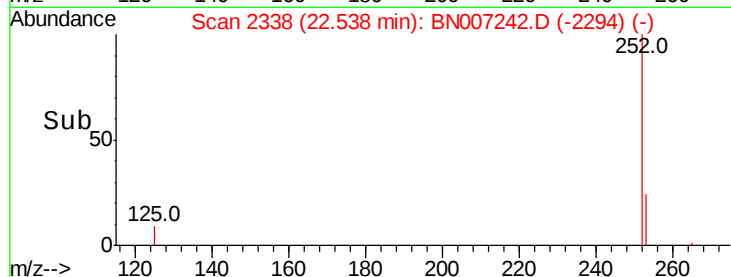
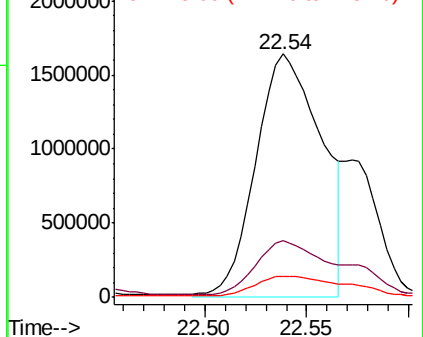
253 23.2 18.2 27.2

125 8.8 7.4 11.0

Manual Integrations
APPROVED



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



#34

Benzo(k)fluoranthene

Concen: 5.008 ng m

RT: 22.57 min Scan# 2348

Delta R.T. -0.02 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

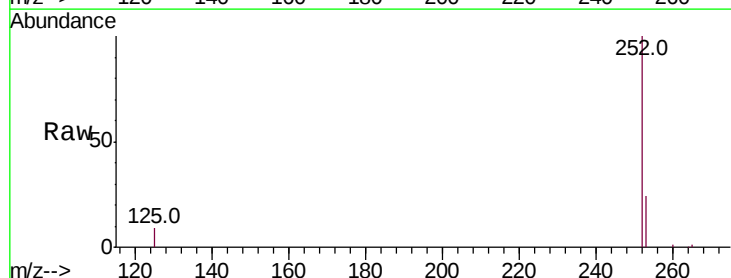
Tgt Ion:252 Resp: 954543

Ion Ratio Lower Upper

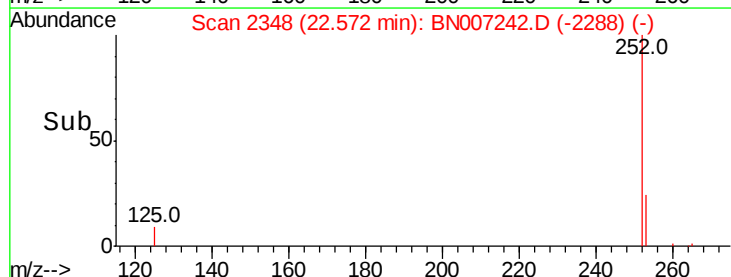
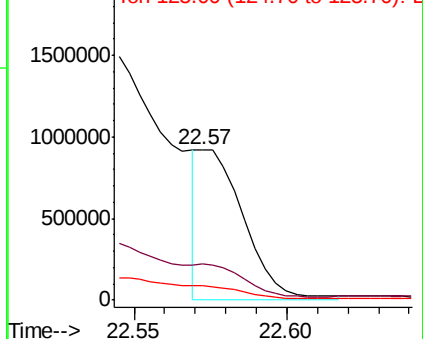
252 100

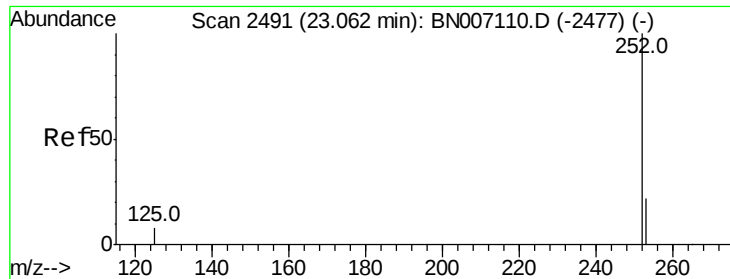
253 23.8 18.1 27.1

125 9.2 7.4 11.0



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





#35

Benzo(a)pyrene

Concen: 17.751 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

Tot Ion:252 Resp: 3105619

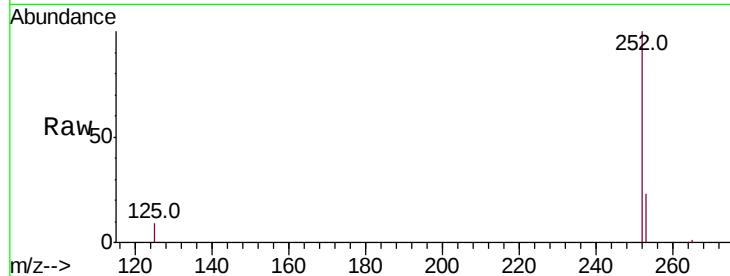
Ion Ratio Lower Upper

252 100

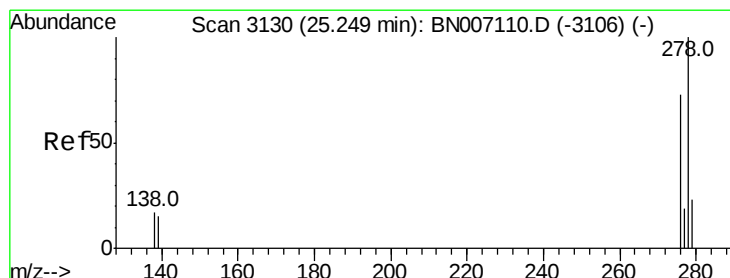
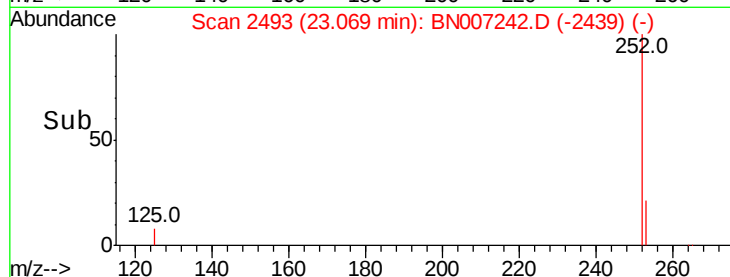
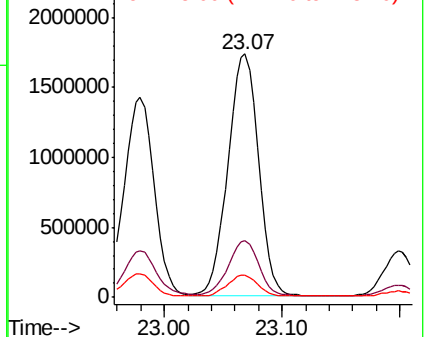
253 23.2 18.5 27.7

125 8.9 8.2 12.4

Manual Integrations
APPROVED



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: 3.348 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Tgt Ion:278 Resp: 584409

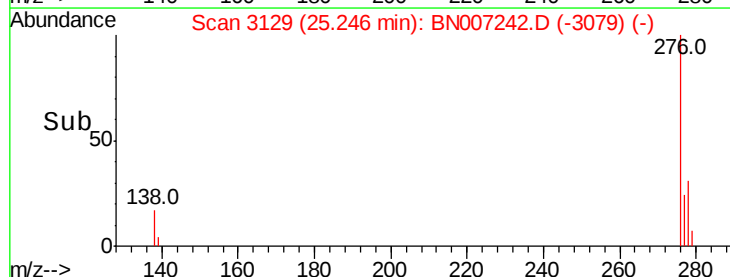
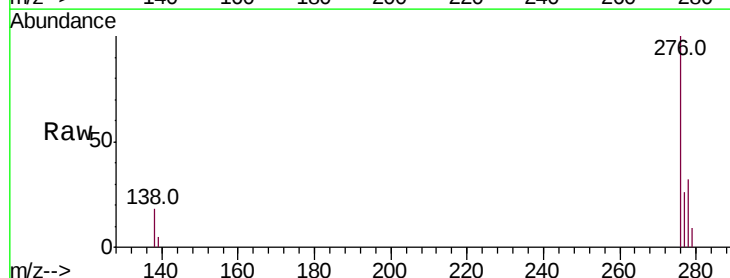
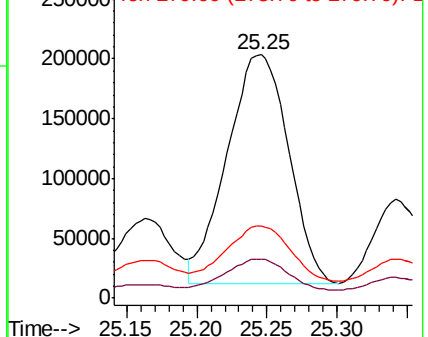
Ion Ratio Lower Upper

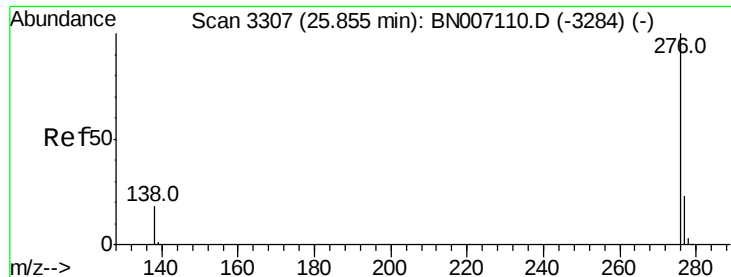
278 100

139 15.9 11.3 16.9

279 29.6 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



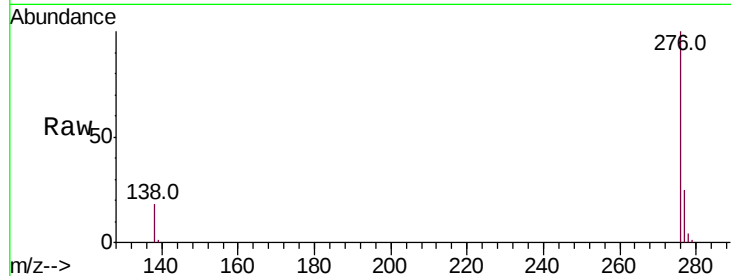


#37
 Benzo(a,h,i)perylene
 Concen: 12.154 ng
 RT: 25.87 min Scan# 3312
 Delta R.T. -0.01 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.8	29.8
138	18.0	14.6	22.0

Manual Integrations
 APPROVED



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

