

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092519\
 Data File : BN007864.D
 Acq On : 25 Sep 2019 21:16
 Operator : JU
 Sample : K4994-03 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1

Manual Integrations
 APPROVED

mohammad
 9/27/2019 8:28:06 AM

Quant Time: Sep 26 09:07:58 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Sep 18 18:24:40 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	10416	0.40	ng	0.00
7) Naphthalene-d8	10.46	136	38791	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	22117	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	41660	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	46135	0.40	ng	-0.02
34) Perylene-d12	23.47	264	56966	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	1315	0.04	ng	0.00
5) Phenol-d6	6.87	99	1705	0.03	ng	0.00
8) Nitrobenzene-d5	8.83	82	1443	0.04	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	2730	0.04	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	397	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	3909	0.04	ng	-0.01
25) Fluoranthene-d10	19.09	212	5439m	0.04	ng	-0.01
29) Terphenyl-d14	19.69	244	7518	0.07	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.51	128	38510	0.354	ng	100
12) 2-Methylnaphthalene	12.13	142	32354	0.440	ng	100
16) Acenaphthylene	14.03	152	250716	2.137	ng	99
17) Acenaphthene	14.38	154	34111	0.451	ng	# 88
18) Fluorene	15.36	166	74491	0.769	ng	86
23) Phenanthrene	17.10	178	1786091	13.763	ng	100
24) Anthracene	17.19	178	349401	2.981	ng	98
26) Fluoranthene	19.12	202	2583619	16.010	ng	98
28) Pyrene	19.49	202	3789318	24.083	ng	# 95
30) Benzo(a)anthracene	21.24	228	1970175	11.597	ng	96
31) Chrysene	21.29	228	2094542	12.650	ng	97
32) Bis(2-ethylhexyl)phthalate	21.19	149	26621m	0.305	ng	
33) Indeno(1,2,3-cd)pyrene	25.68	276	1004473	4.845	ng	97
35) Benzo(b)fluoranthene	22.81	252	2015325m	10.190	ng	
36) Benzo(k)fluoranthene	22.85	252	575663m	2.944	ng	
37) Benzo(a)pyrene	23.37	252	1680567	9.043	ng	98
38) Dibenzo(a,h)anthracene	25.68	278	312816	1.645	ng	93
39) Benzo(a,h,i)perylene	26.35	276	1199055	6.372	ng	99

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

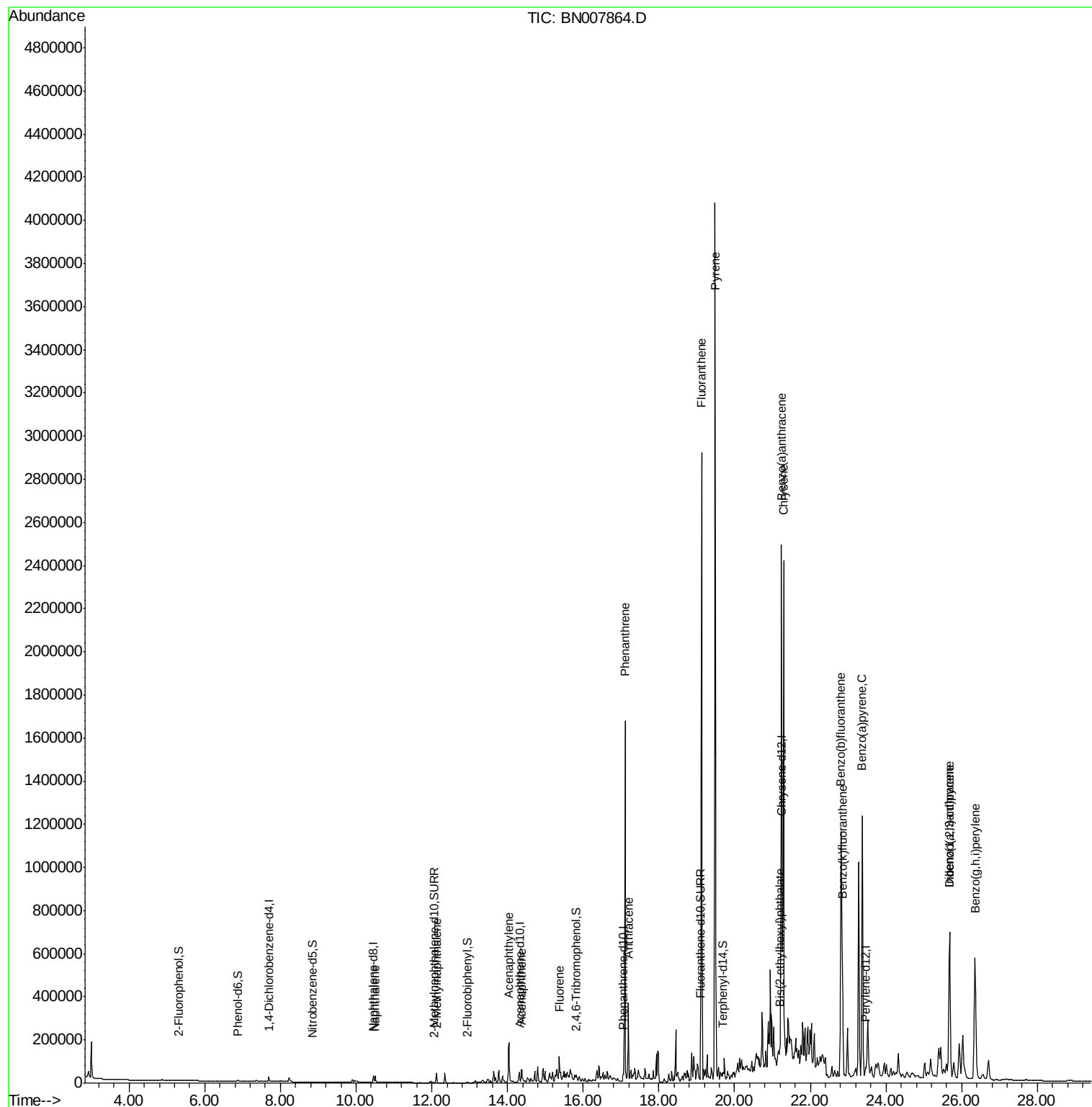
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092519\
Data File : BN007864.D
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Sample : K4994-03 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

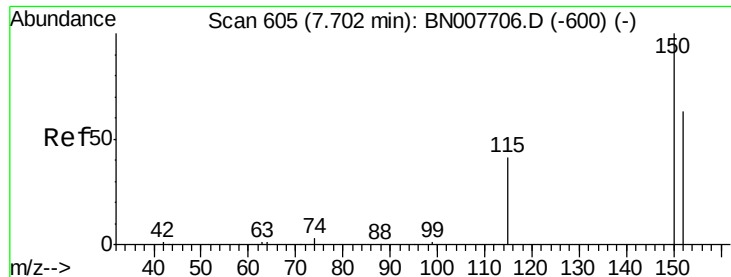
Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

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Quant Time: Sep 26 09:07:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

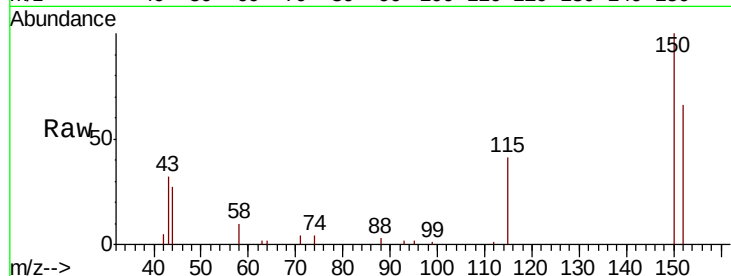
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 604
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.1	125.6	188.4
115	62.7	53.3	79.9

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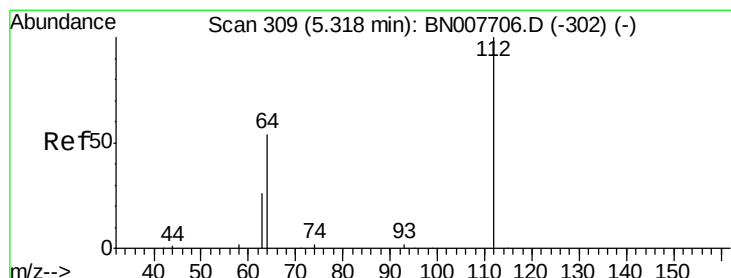
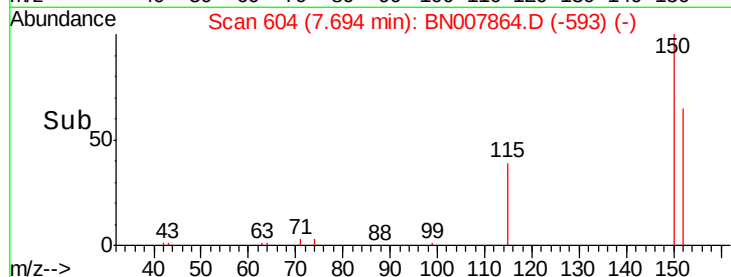
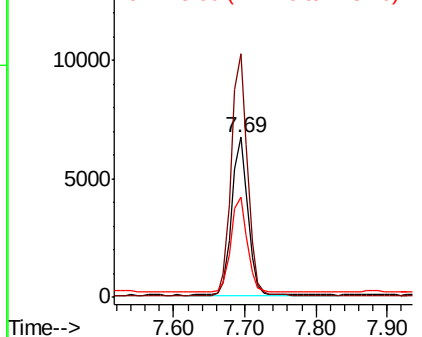


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

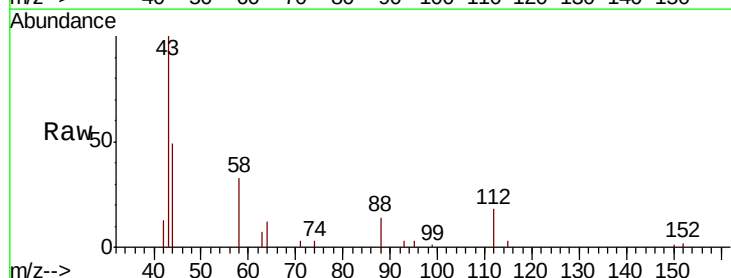
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.037 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	46.6	70.0
63	28.5	23.1	34.7

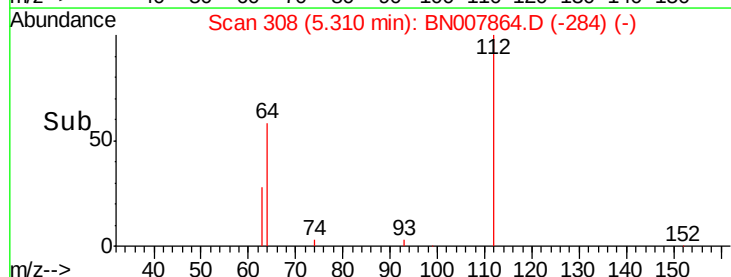
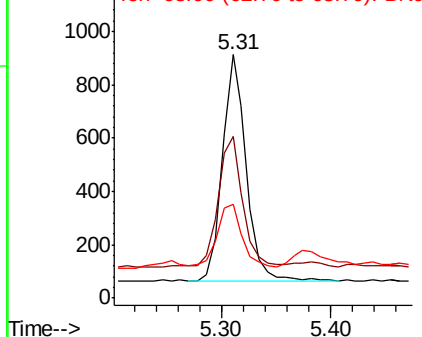


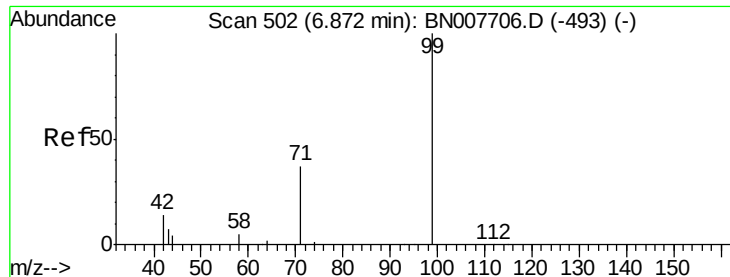
Abundance

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





#5

Phenol-d6

Concen: 0.032 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

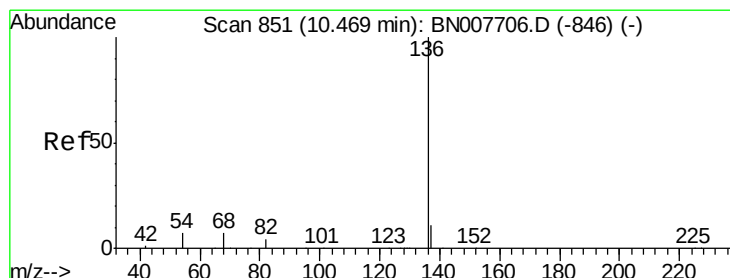
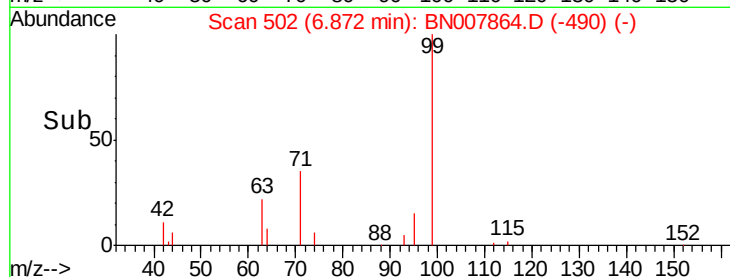
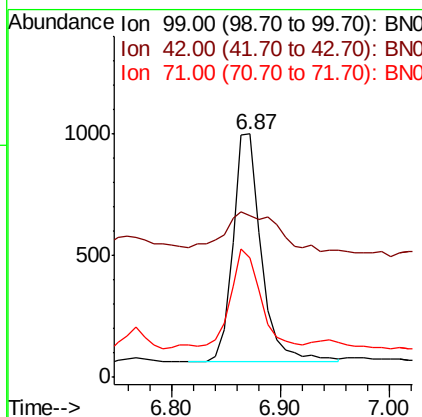
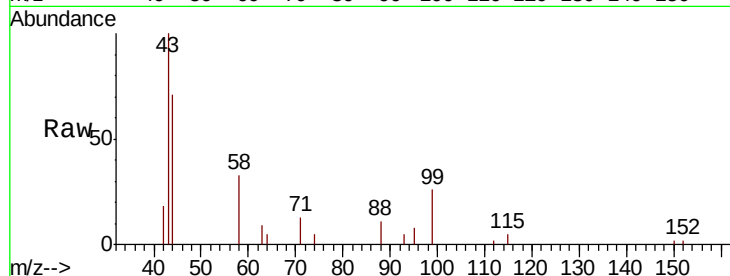
ClientSampleId :

EXT-SW092-091819-1

Tot Ion:	99	Resp:	1705
Ion	Ratio	Lower	Upper
99	100		
42	45.3	12.8	19.2#
71	48.4	27.6	41.4#

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#7

Naphthalene-d8

Concen: 0.400 ng

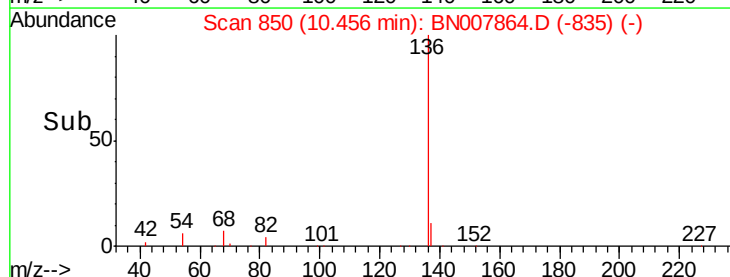
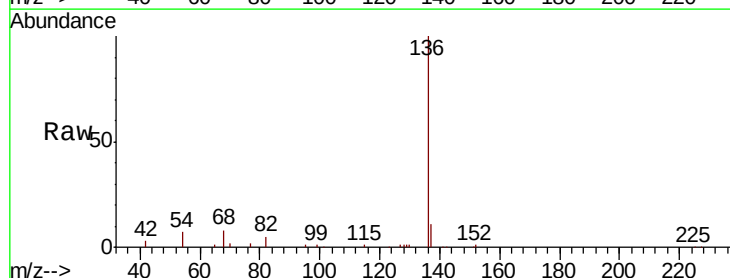
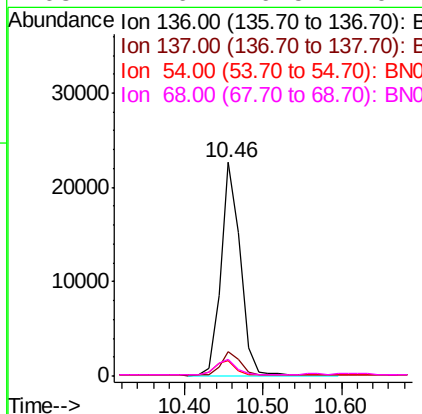
RT: 10.46 min Scan# 850

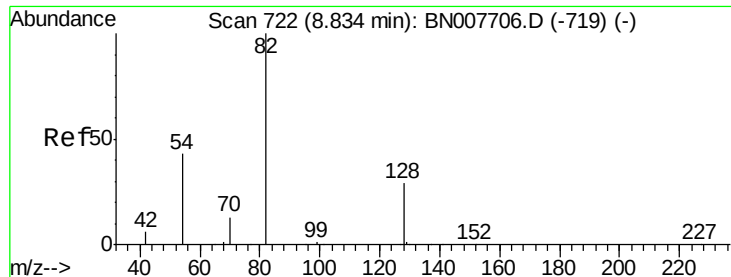
Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Tgt Ion:	136	Resp:	38791
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	7.0	5.8	8.8
68	7.6	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.043 ng

RT: 8.83 min Scan# 722

Delta R.T. -0.00 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

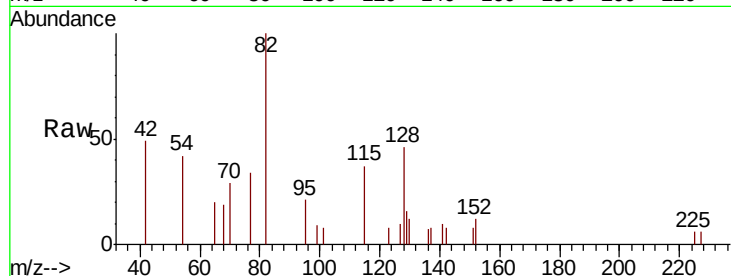
ClientSampleId :

EXT-SW092-091819-1

Tot Ion:	82	Resp:	1443
Ion Ratio	Lower	Upper	
82	100		
128	46.1	24.5	36.7#
54	42.2	35.2	52.8

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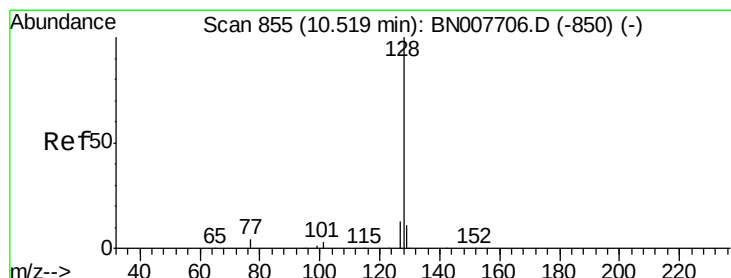
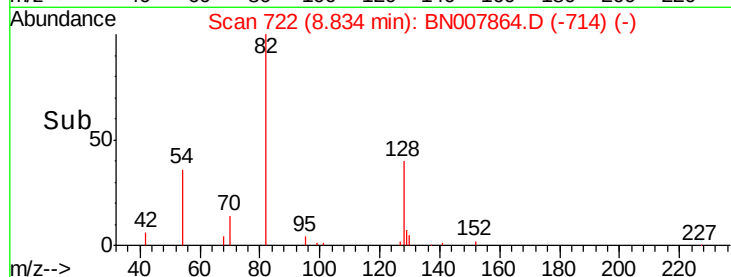
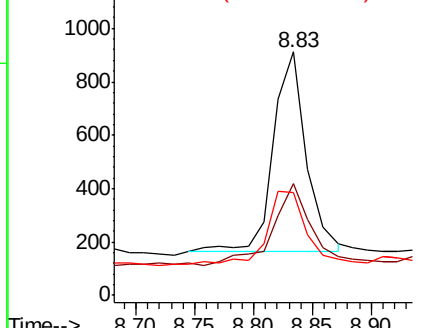
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Abundance Ion 82.00 (81.70 to 82.70): BN007706.D (-719) (-)

Ion 128.00 (127.70 to 128.70): BN007706.D (-719) (-)

Ion 54.00 (53.70 to 54.70): BN007706.D (-719) (-)



#9

Naphthalene

Concen: 0.354 ng

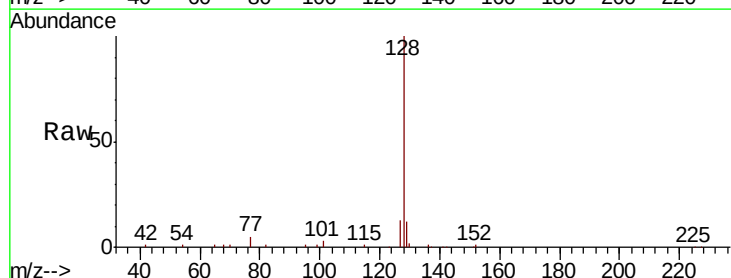
RT: 10.51 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

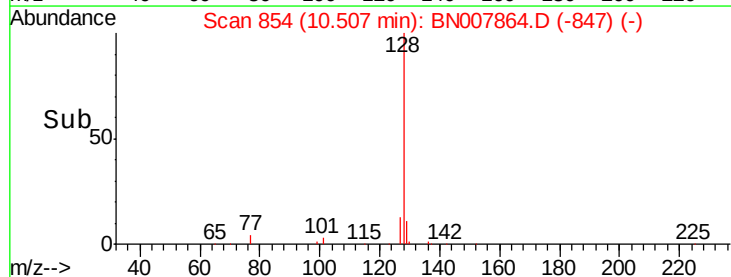
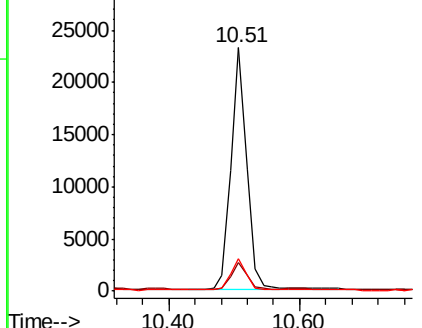
Tgt Ion:	128	Resp:	38510
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.1	13.7
127	13.2	10.6	15.8

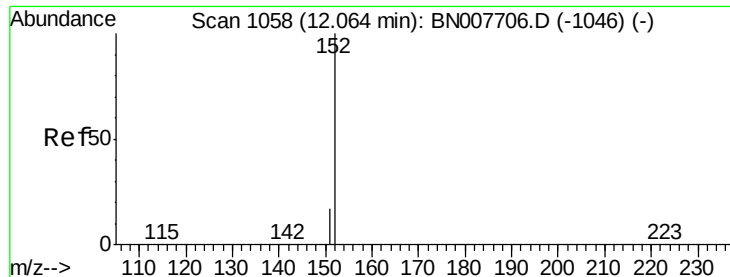


Abundance Ion 128.00 (127.70 to 128.70): BN007706.D (-850) (-)

Ion 129.00 (128.70 to 129.70): BN007706.D (-850) (-)

Ion 127.00 (126.70 to 127.70): BN007706.D (-850) (-)





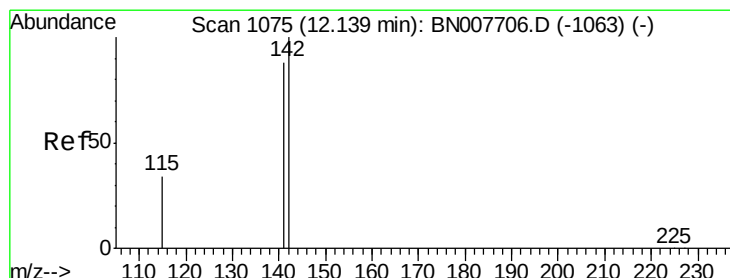
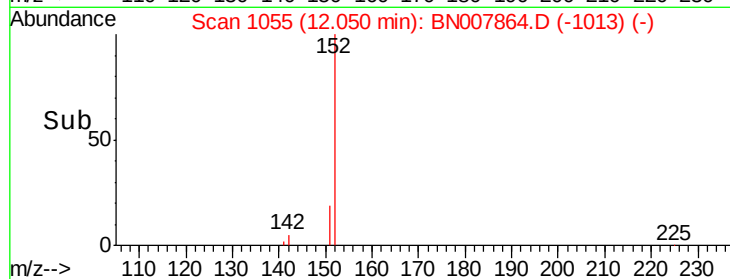
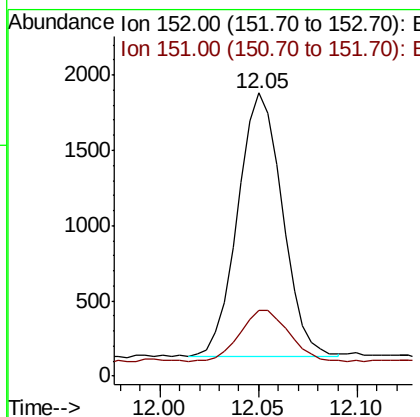
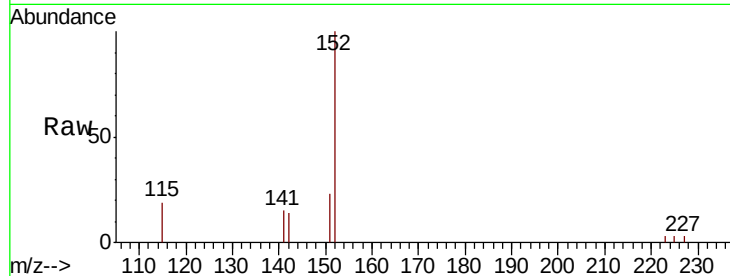
#11
 2-Methylnaphthalene-d10
 Concen: 0.042 ng
 RT: 12.05 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: BN007864.D
 Acq: 25 Sep 2019 21:16

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.4	23.2

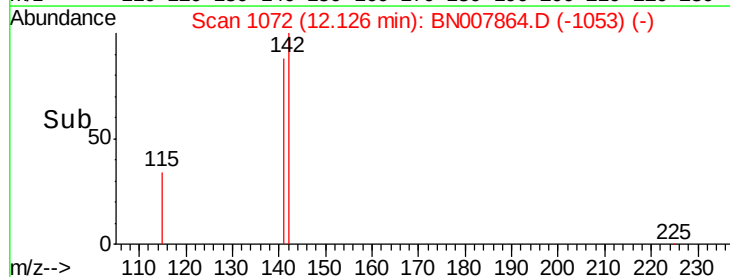
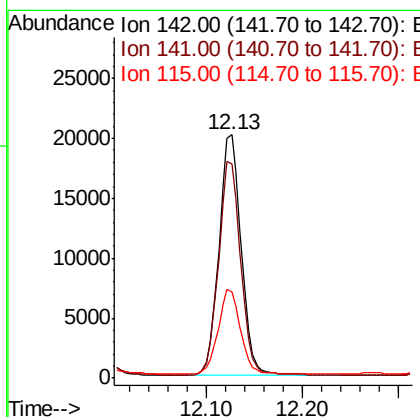
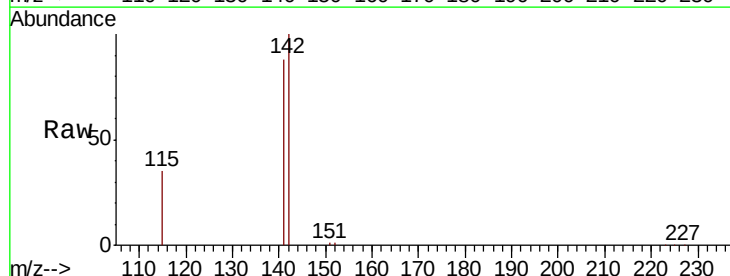
Manual Integrations
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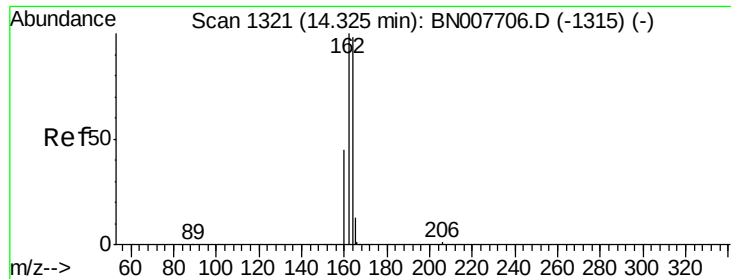
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#12
 2-Methylnaphthalene
 Concen: 0.440 ng
 RT: 12.13 min Scan# 1072
 Delta R.T. -0.01 min
 Lab File: BN007864.D
 Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.6	106.0
115	35.3	28.3	42.5





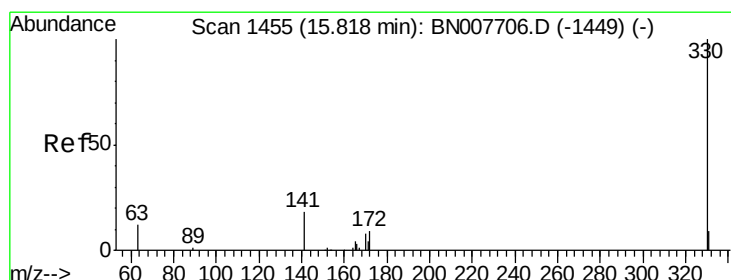
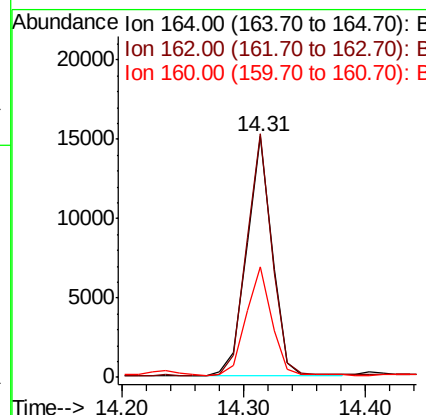
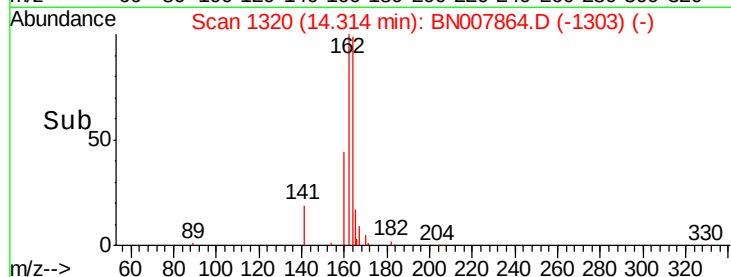
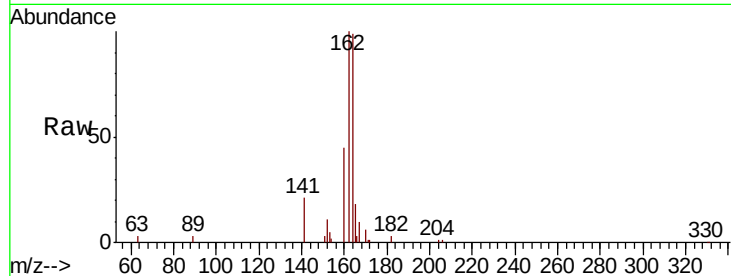
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.7	122.5
160	45.8	37.0	55.4

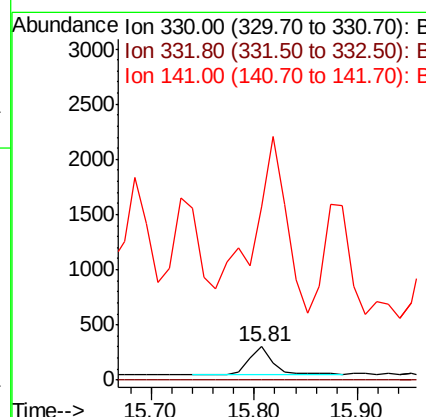
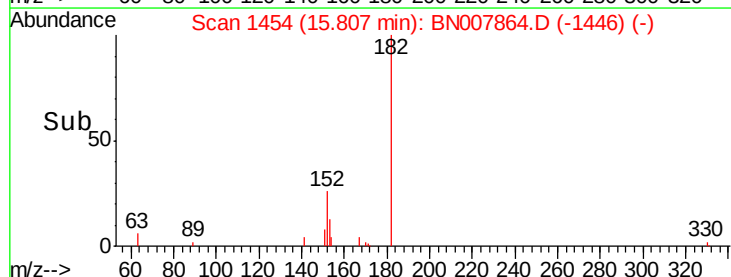
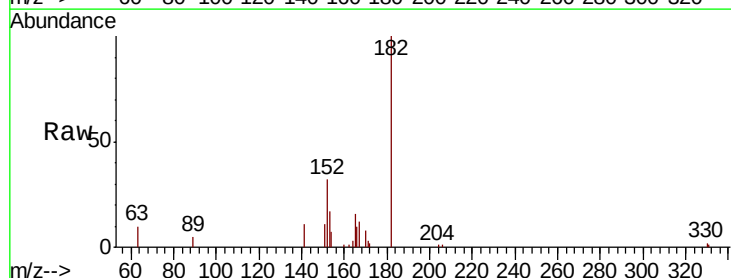
Manual Integrations
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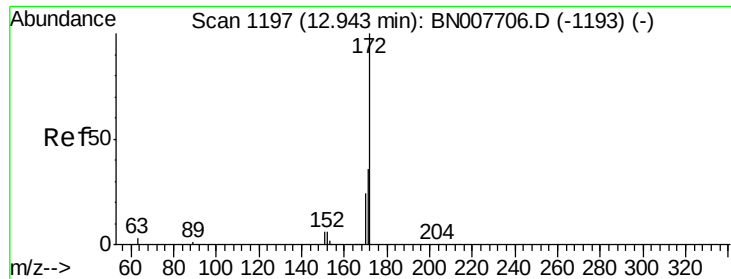
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#14
2,4,6-Tribromophenol
Concen: 0.033 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	891.9	28.7	43.1#





#15

2-Fluorobiphenyl

Concen: 0.043 ng

RT: 12.93 min Scan# 1196

Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

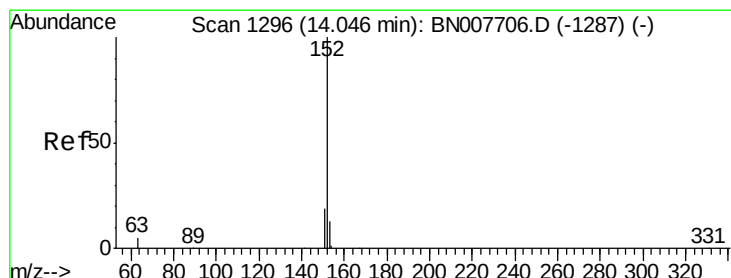
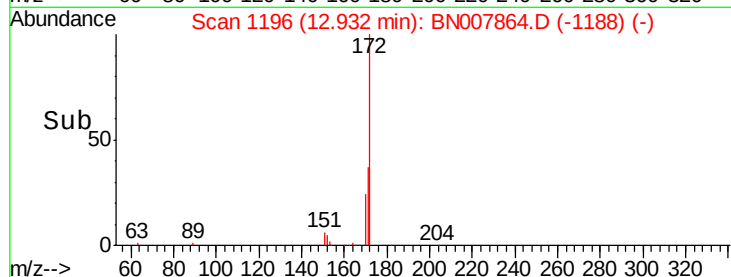
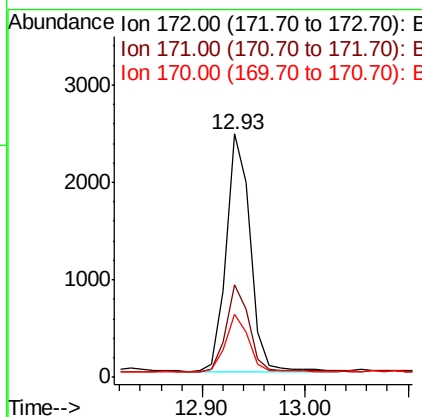
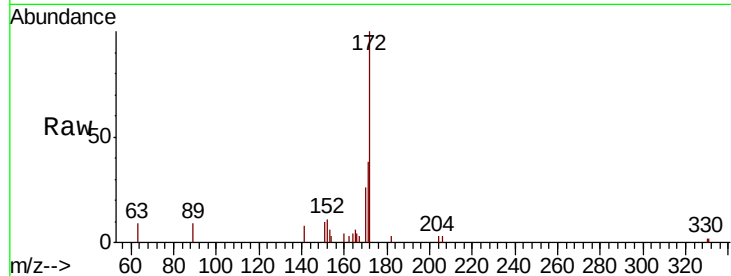
ClientSampleId :

EXT-SW092-091819-1

Tot Ion:	172	Resp:	3909
Ion Ratio	Lower	Upper	
172	100		
171	38.3	28.8	43.2
170	25.9	19.5	29.3

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#16

Acenaphthylene

Concen: 2.137 ng

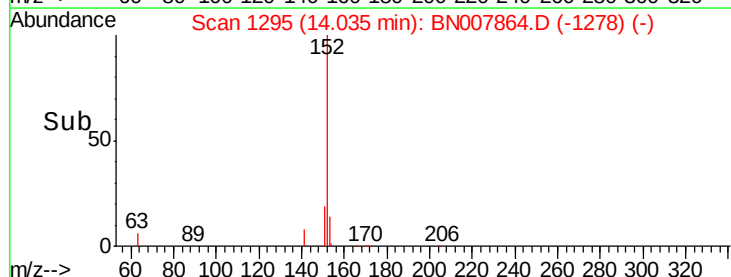
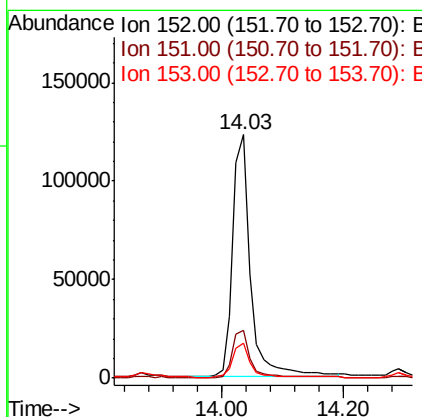
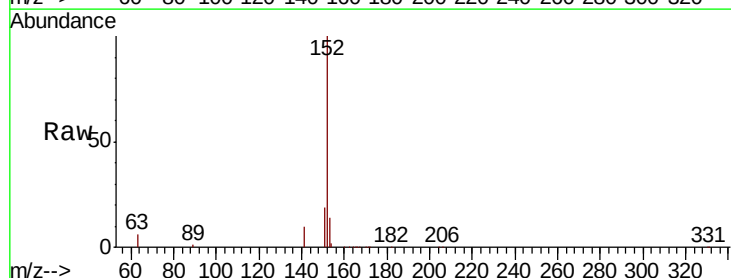
RT: 14.03 min Scan# 1295

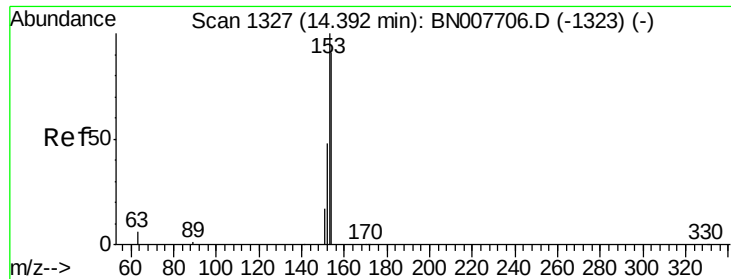
Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Tgt Ion:	152	Resp:	250716
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.5	23.3
153	14.1	10.4	15.6





#17

Acenaphthene

Concen: 0.451 ng

RT: 14.38 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

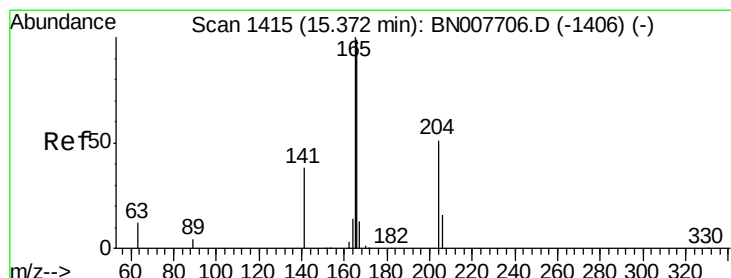
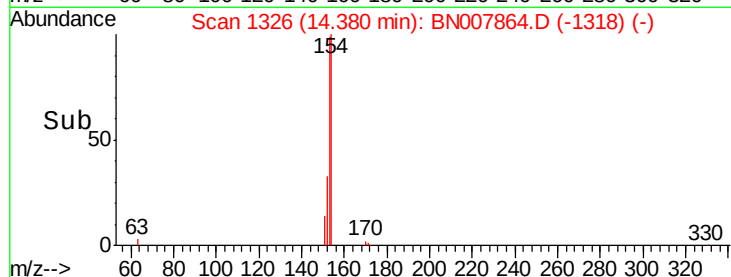
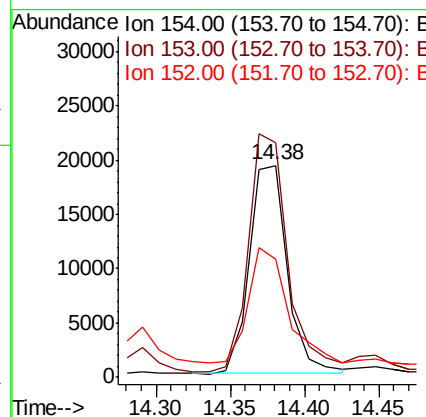
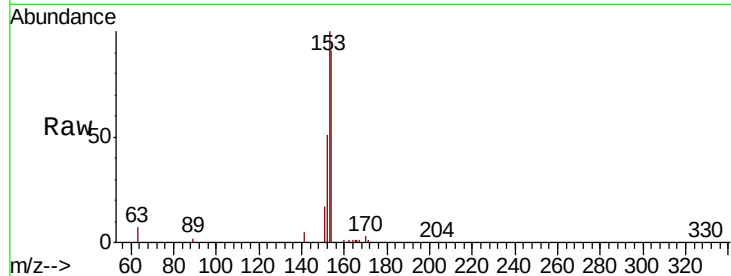
ClientSampleId :

EXT-SW092-091819-1

Tot Ion:	154	Resp:	34111
Ion Ratio	Lower	Upper	
154	100		
153	117.6	87.0	130.4
152	66.2	42.7	64.1#

Manual Integrations
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#18

Fluorene

Concen: 0.769 ng

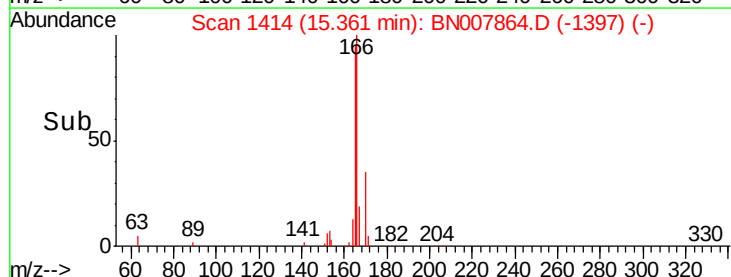
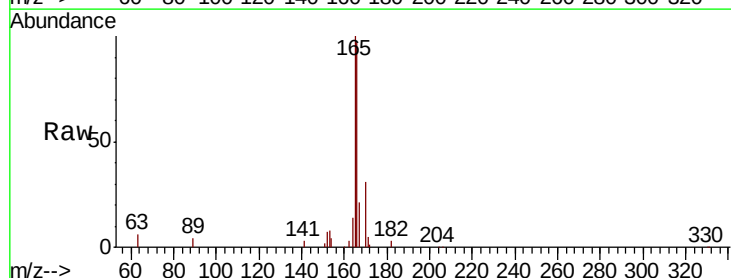
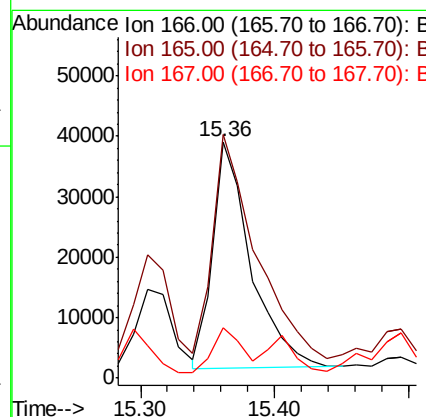
RT: 15.36 min Scan# 1414

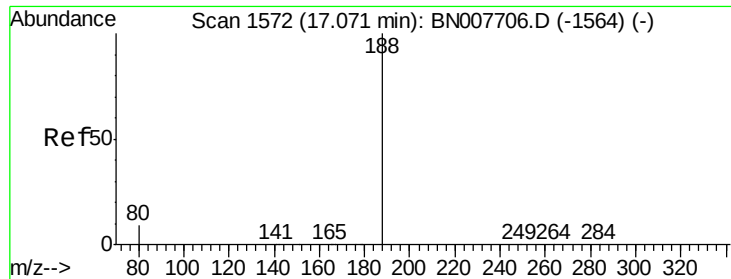
Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Tgt Ion:	166	Resp:	74491
Ion Ratio	Lower	Upper	
166	100		
165	112.5	78.0	117.0
167	15.0	10.9	16.3





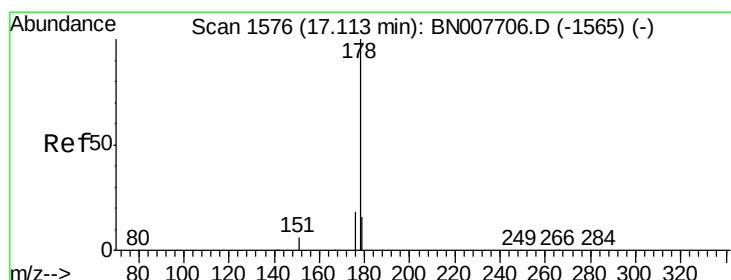
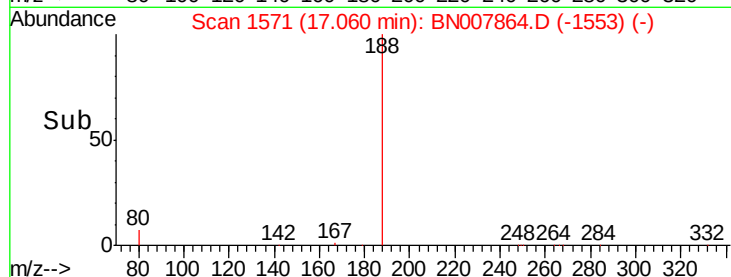
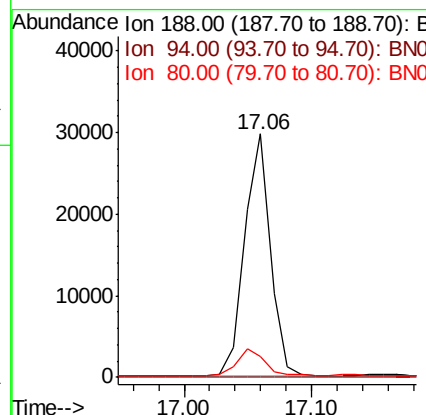
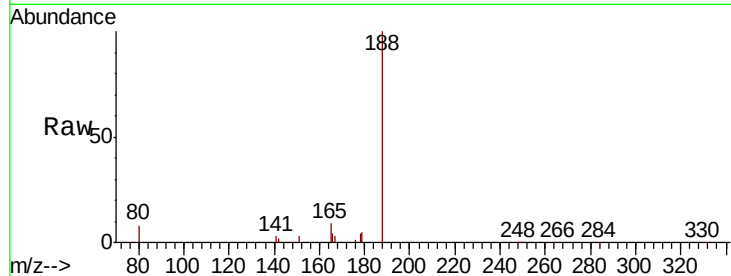
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

Tot Ion	Ratio	Resp	Lower	Upper
188	100	41660		
94	0.0	0.0	0.0	0.0
80	8.5	7.4	11.2	

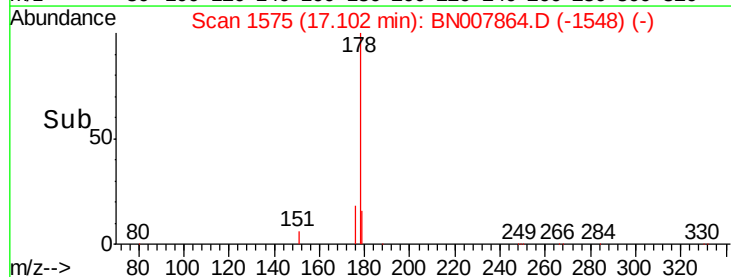
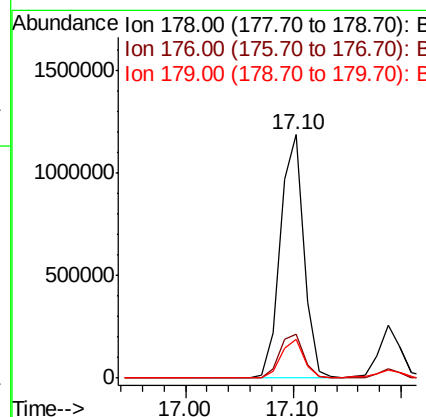
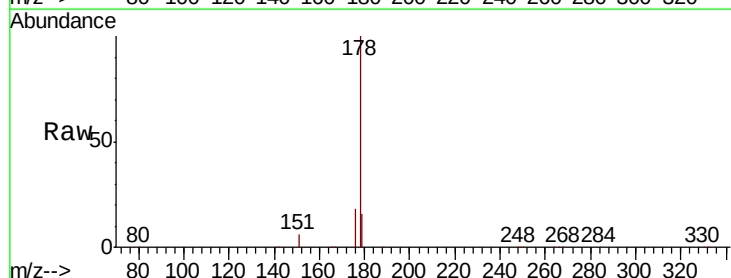
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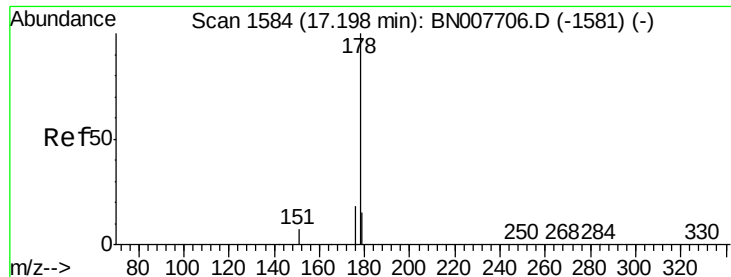
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#23
Phenanthrene
Concen: 13.763 ng
RT: 17.10 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1786091		
176	18.6	14.9	22.3	
179	15.8	12.5	18.7	





#24

Anthracene

Concen: 2.981 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

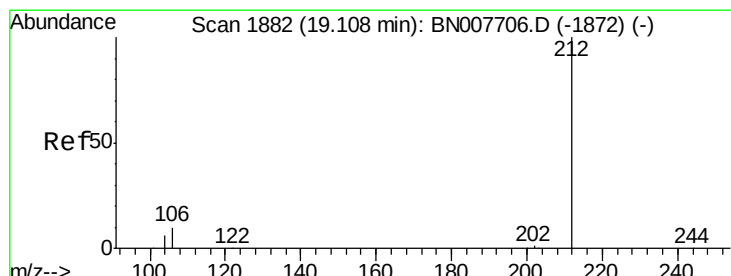
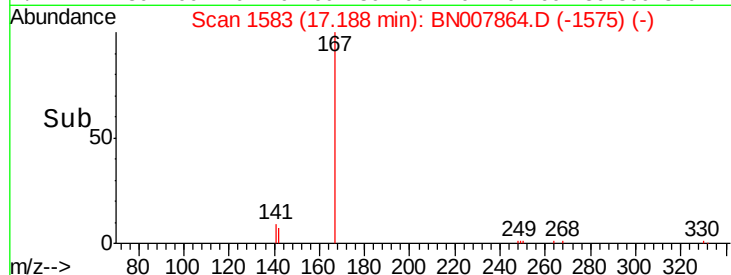
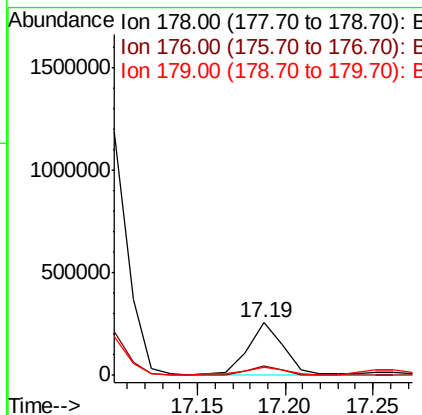
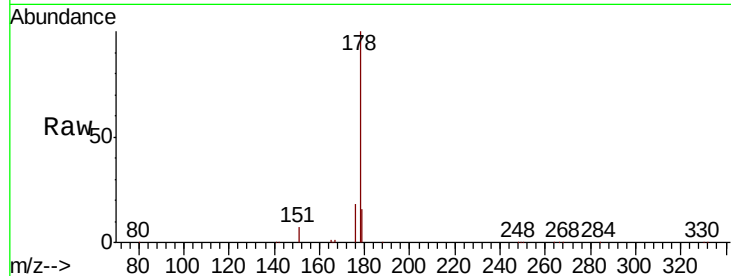
ClientSampleId :

EXT-SW092-091819-1

Tot Ion:	178	Resp:	349401
Ion Ratio	Lower	Upper	
178	100		
176	18.0	14.6	21.8
179	16.7	12.2	18.4

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#25

Fluoranthene-d10

Concen: 0.039 ng m

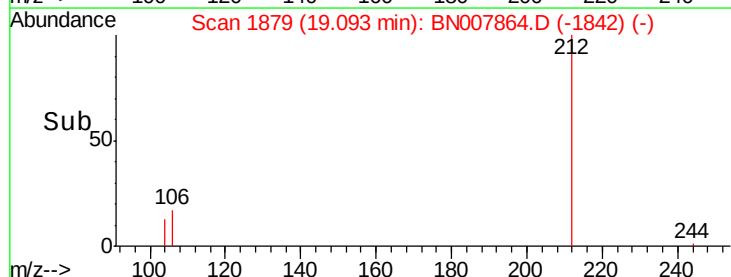
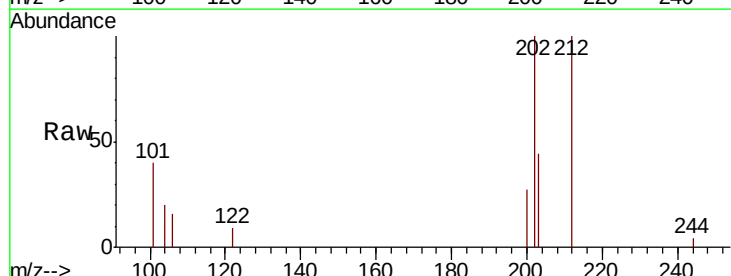
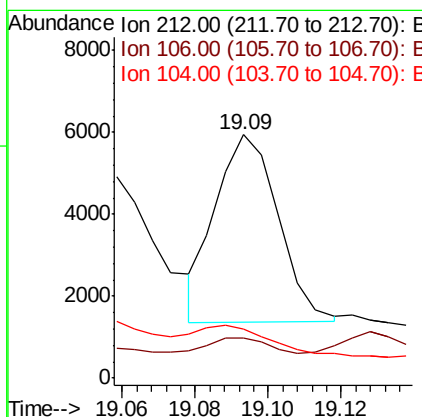
RT: 19.09 min Scan# 1879

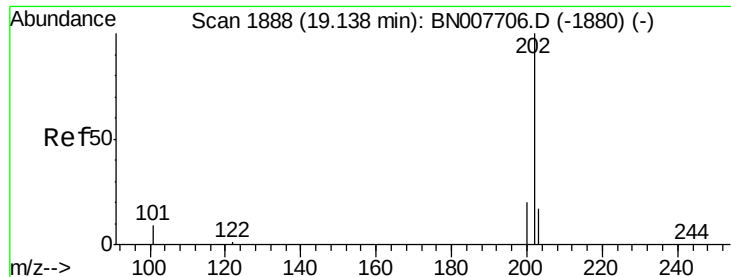
Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Tgt Ion:	212	Resp:	5439
Ion Ratio	Lower	Upper	
212	100		
106	16.2	9.4	14.0#
104	9.1	5.3	7.9#





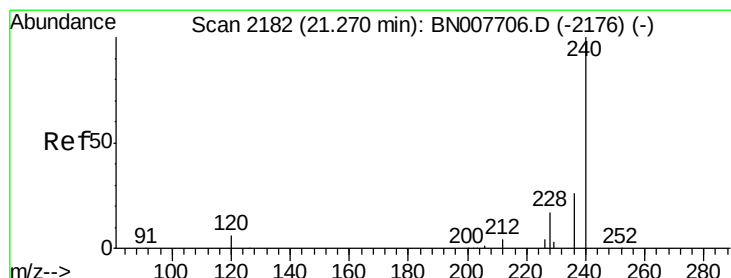
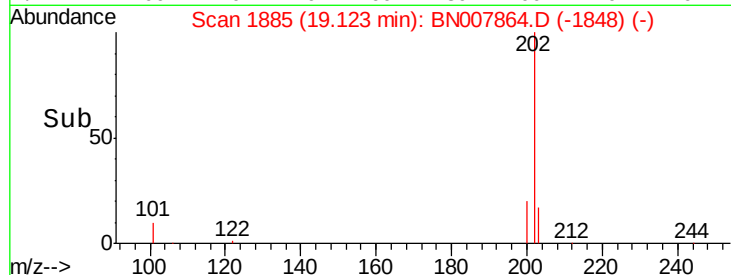
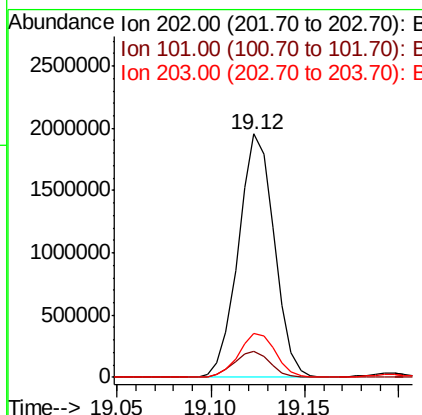
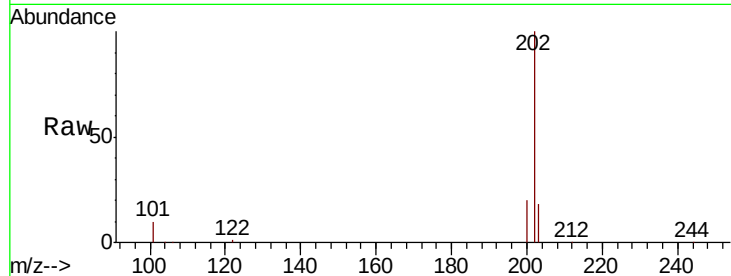
#26
 Fluoranthene
 Concen: 16.010 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN007864.D
 Acq: 25 Sep 2019 21:16

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.4	12.6
203	18.3	13.8	20.8

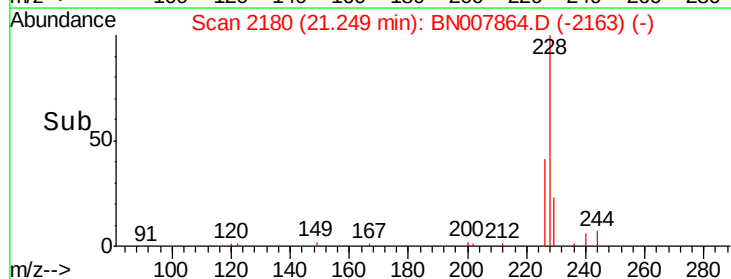
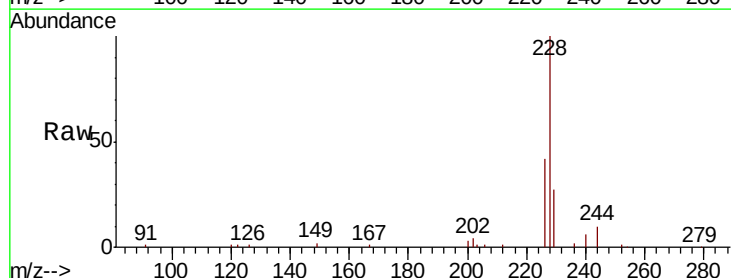
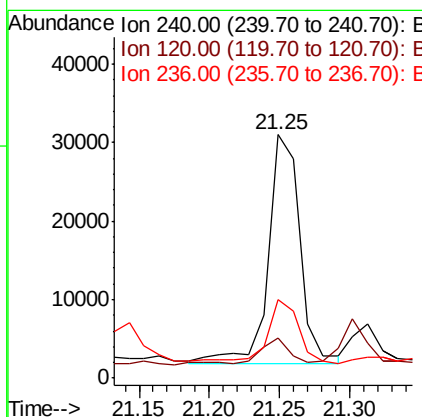
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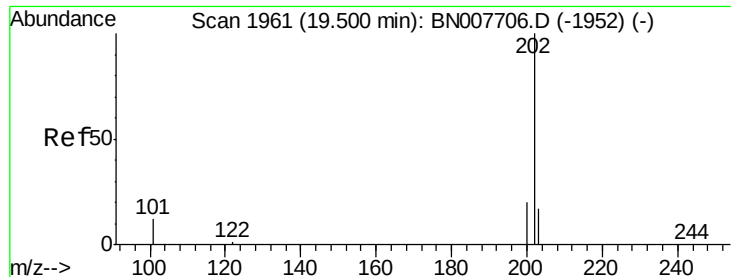
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.25 min Scan# 2180
 Delta R.T. -0.02 min
 Lab File: BN007864.D
 Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.3	5.4	8.2#
236	32.1	21.0	31.4#





#28

Pvrene

Concen: 24.083 ng

RT: 19.49 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

ClientSampleId :

EXT-SW092-091819-1

Tot Ion:202 Resp: 3789318

Ion Ratio Lower Upper

202 100

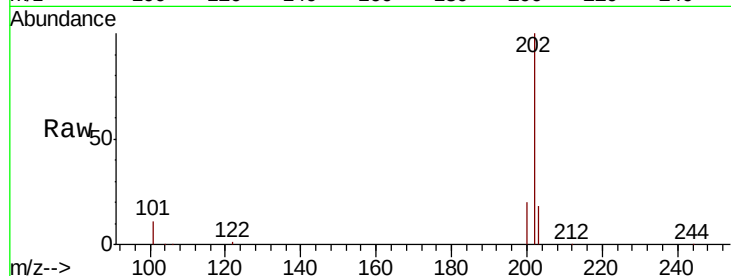
200 20.6 16.4 24.6

203 22.3 14.1 21.1#

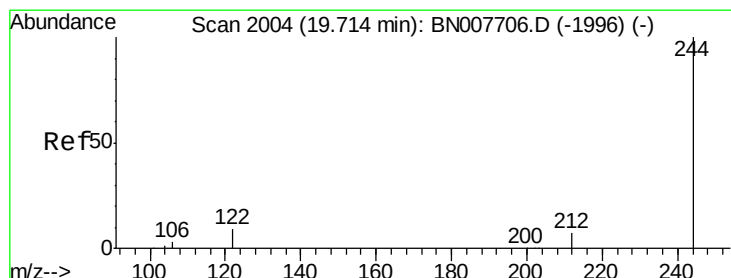
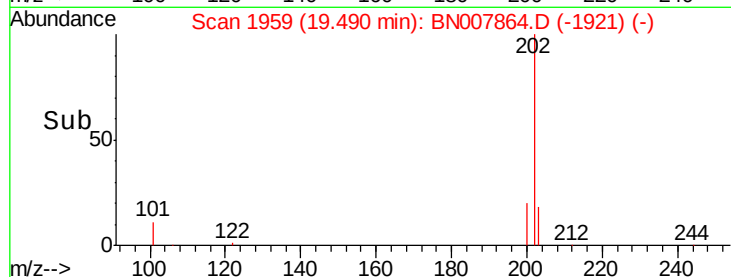
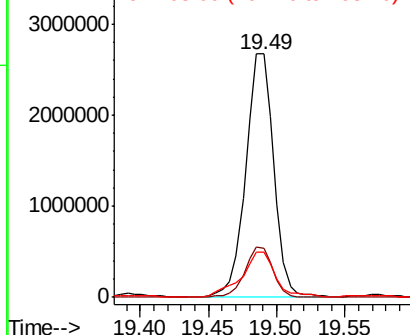
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.066 ng

RT: 19.69 min Scan# 2000

Delta R.T. -0.02 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

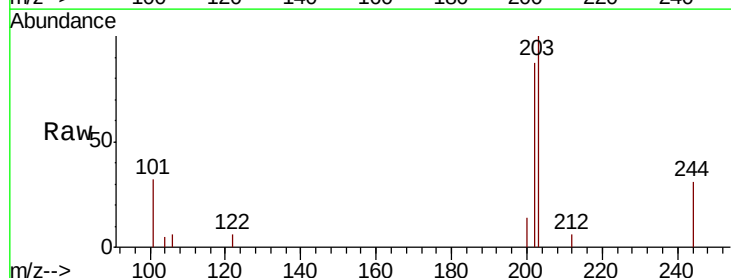
Tgt Ion:244 Resp: 7518

Ion Ratio Lower Upper

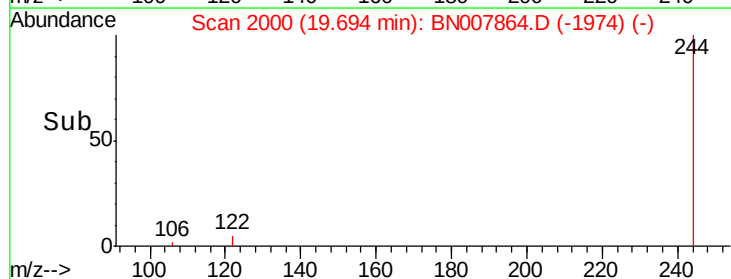
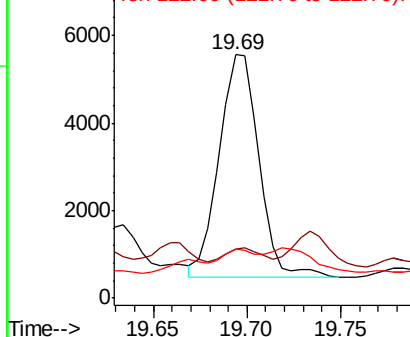
244 100

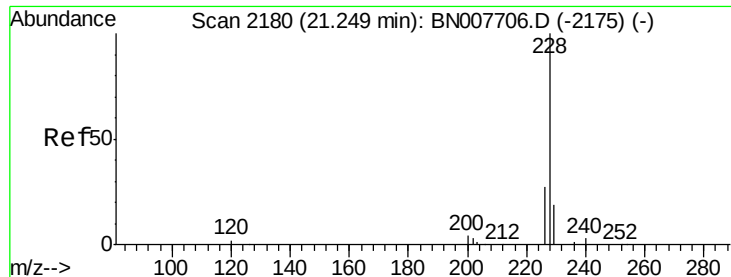
212 20.1 5.9 8.9#

122 20.0 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





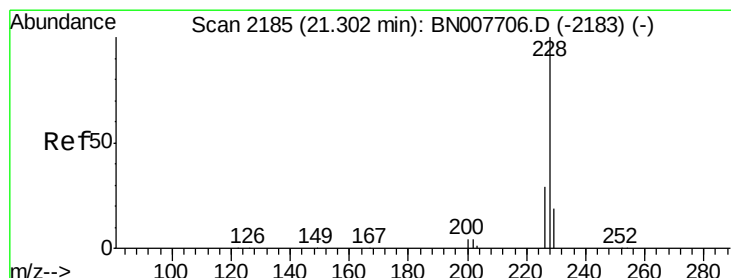
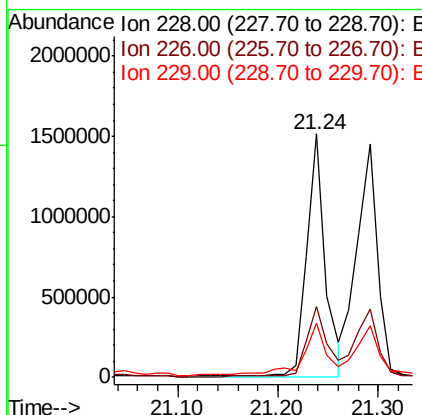
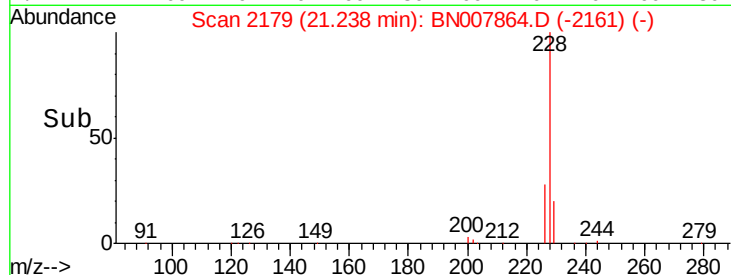
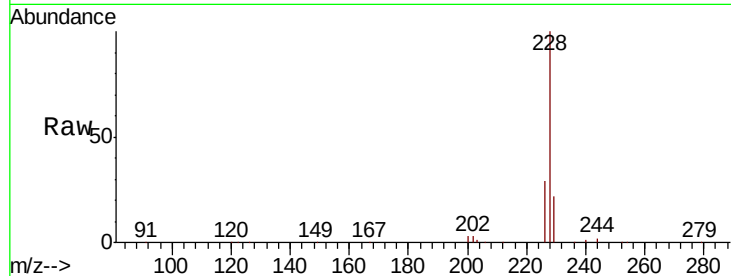
#30
Benzo(a)anthracene
Concen: 11.597 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

Tot Ion:228 Resp: 1970175
Ion Ratio Lower Upper
228 100
226 29.3 22.1 33.1
229 22.3 15.8 23.6

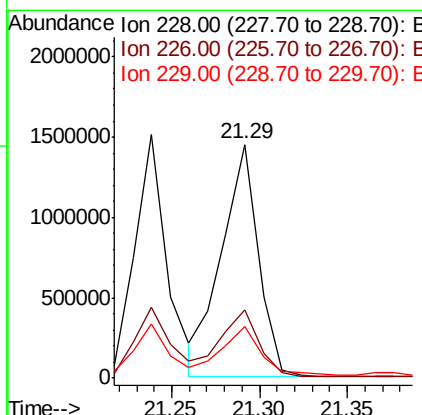
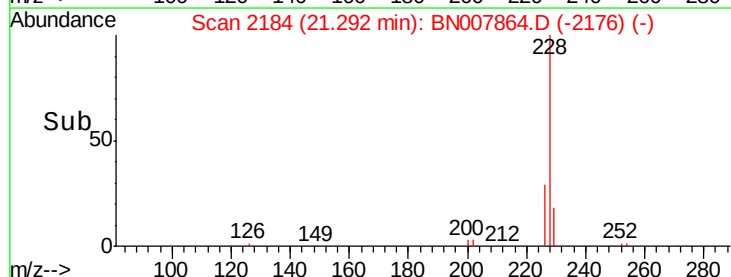
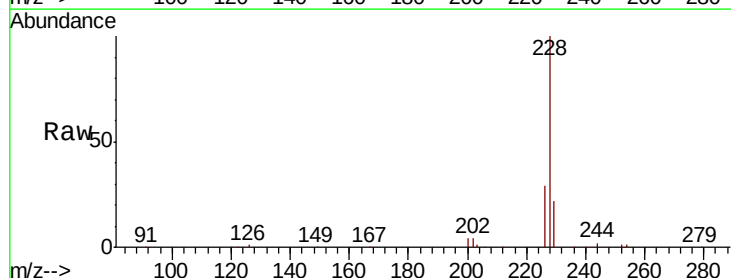
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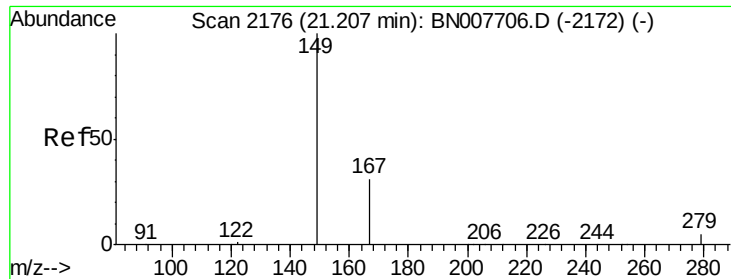
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#31
Chrysene
Concen: 12.650 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Tgt Ion:228 Resp: 2094542
Ion Ratio Lower Upper
228 100
226 29.4 23.9 35.9
229 22.2 15.8 23.6





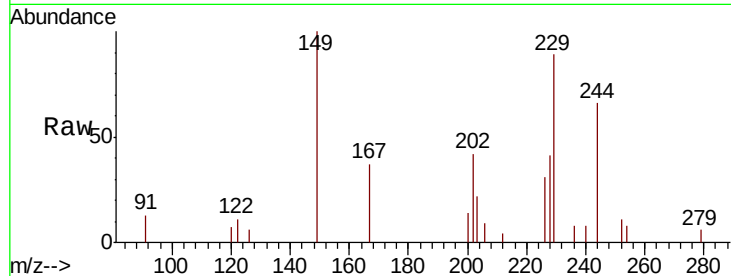
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.305 ng/ml
 RT: 21.19 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: BN007864.D
 Acq: 25 Sep 2019 21:16

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
149	100		
167	44.0	23.7	35.5
279	6.5	4.2	6.2

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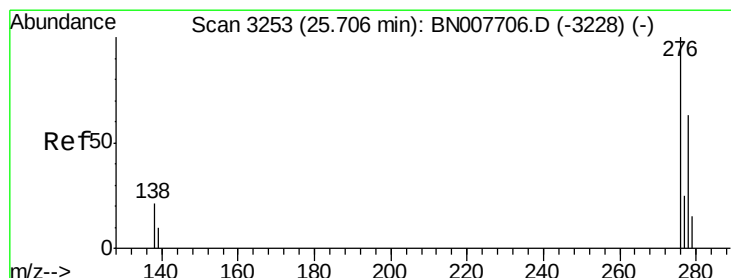
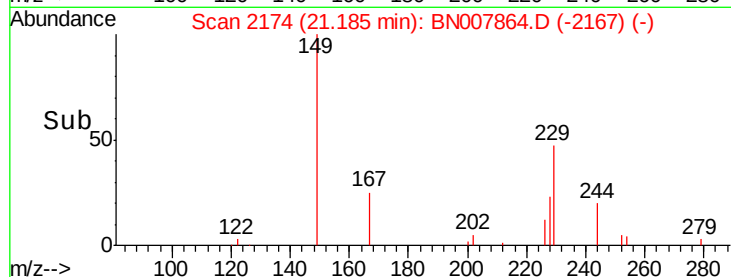
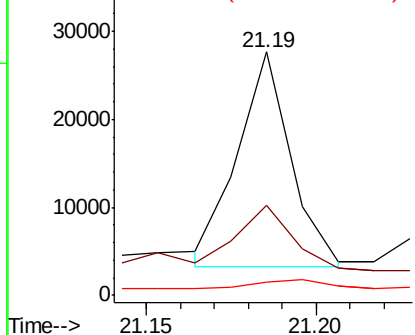


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 4.845 ng
 RT: 25.68 min Scan# 3245
 Delta R.T. -0.03 min
 Lab File: BN007864.D
 Acq: 25 Sep 2019 21:16

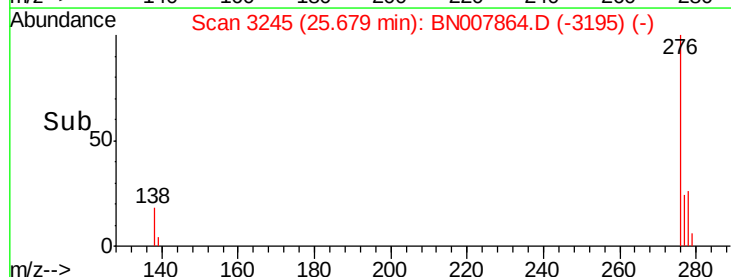
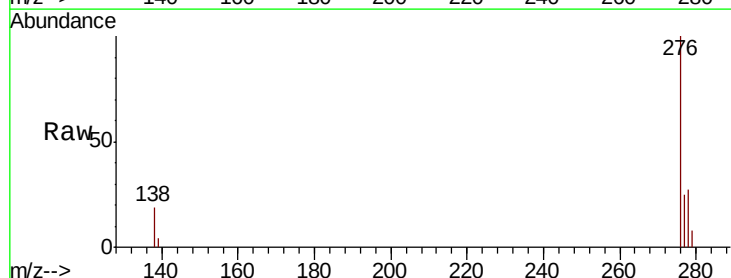
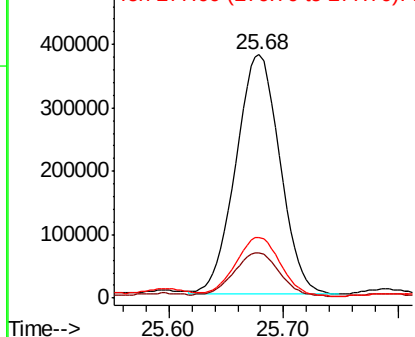
Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.6	17.1	25.7
277	25.0	20.0	30.0

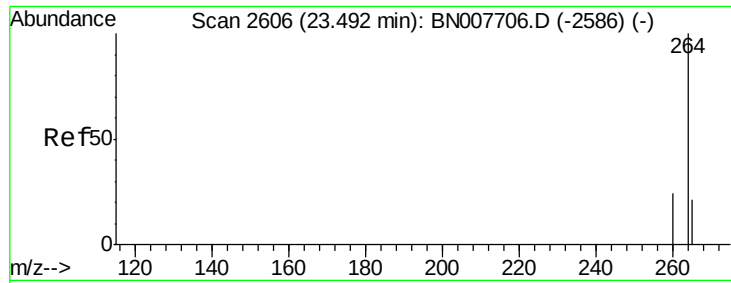
Abundance

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





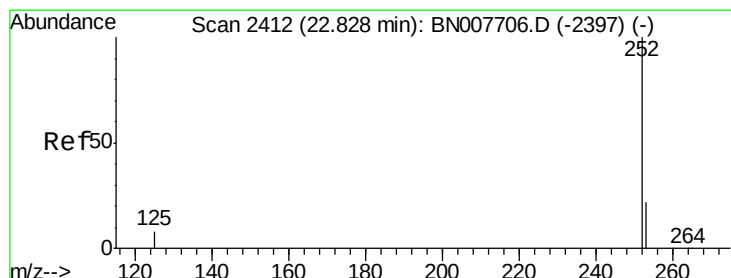
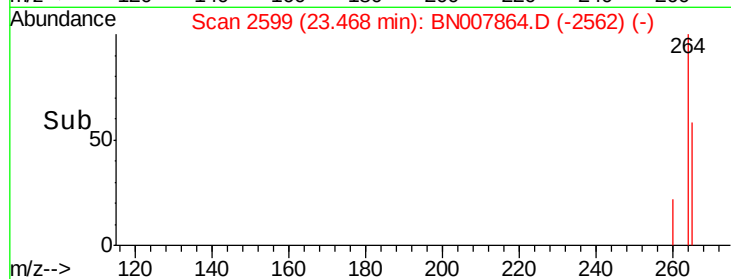
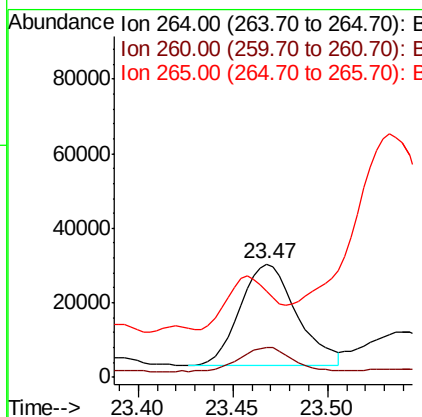
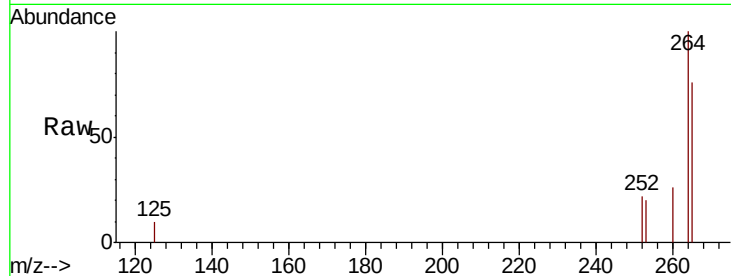
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2599
Delta R.T. -0.02 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.1	19.3	28.9
265	75.9	26.9	40.3

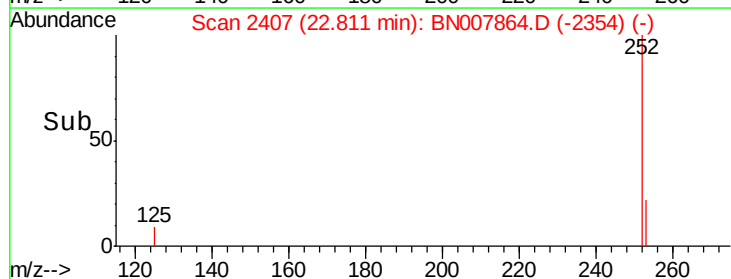
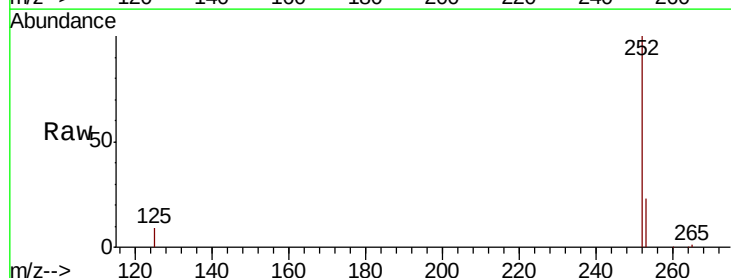
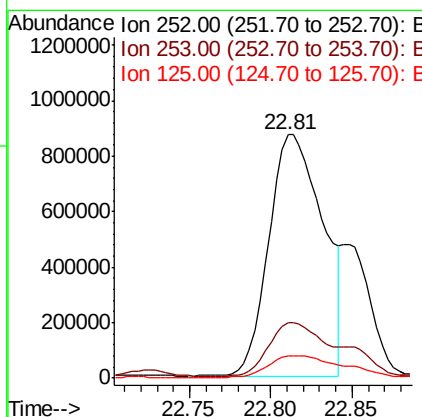
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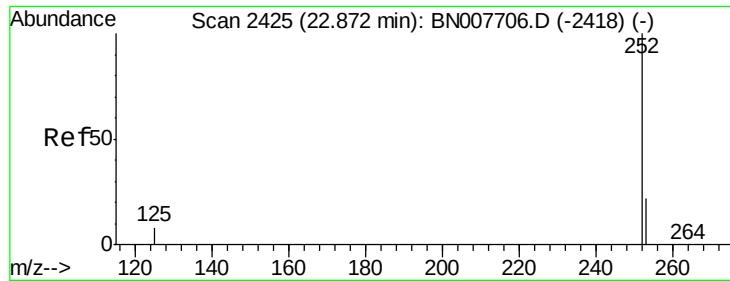
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#35
Benzo(b)fluoranthene
Concen: 10.190 ng m
RT: 22.81 min Scan# 2407
Delta R.T. -0.02 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.3	27.5
125	9.1	8.2	12.4





#36

Benzo(k)fluoranthene

Concen: 2.944 ng

RT: 22.85 min Scan# 2418

Delta R.T. -0.02 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Instrument :

BNA_N

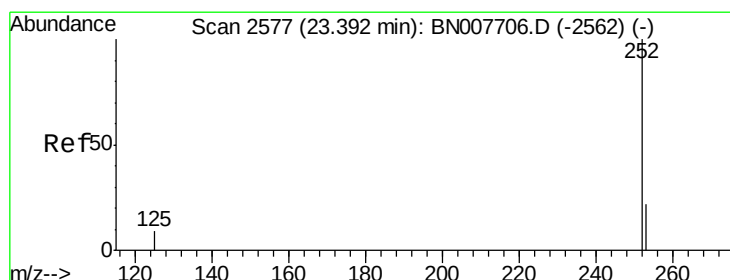
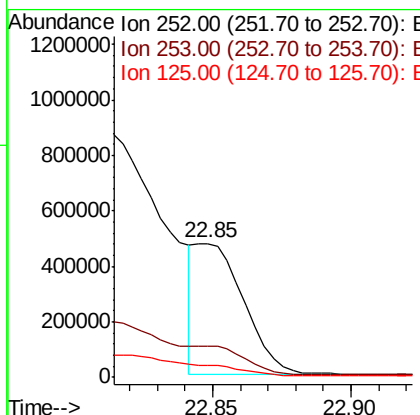
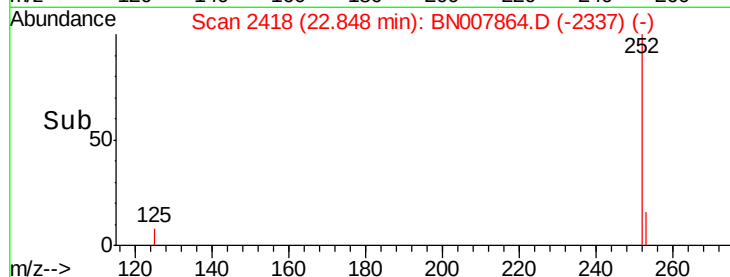
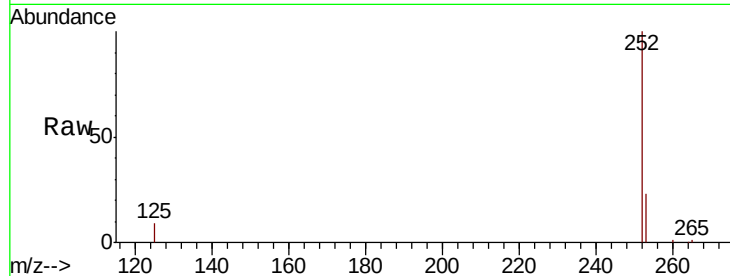
ClientSampleId :

EXT-SW092-091819-1

Tot Ion:	252	Resp:	575663
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.5	27.7
125	9.2	8.4	12.6

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#37

Benzo(a)pyrene

Concen: 9.043 ng

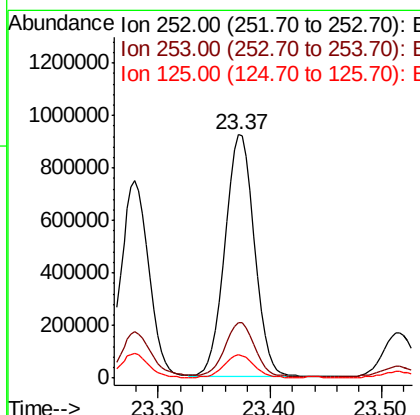
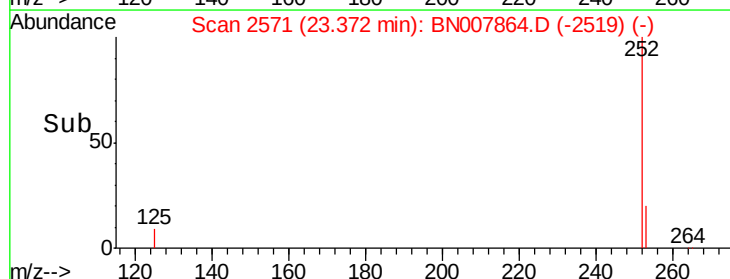
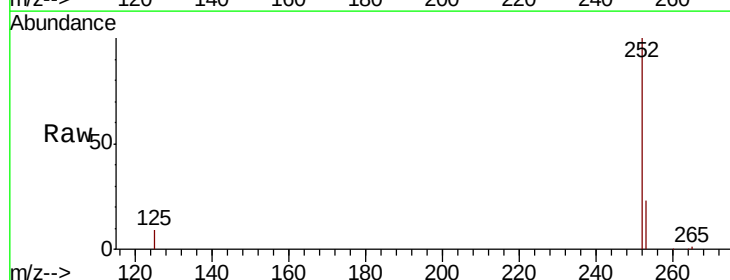
RT: 23.37 min Scan# 2571

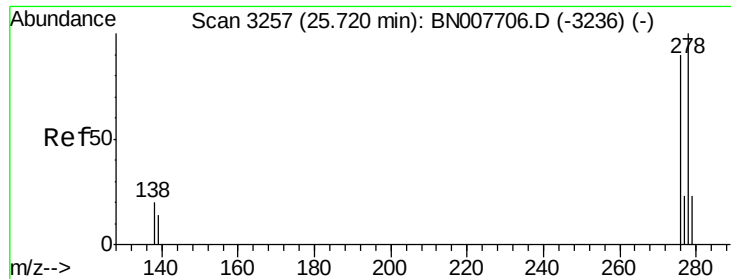
Delta R.T. -0.02 min

Lab File: BN007864.D

Acq: 25 Sep 2019 21:16

Tgt Ion:	252	Resp:	1680567
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.6	27.8
125	9.5	9.4	14.0





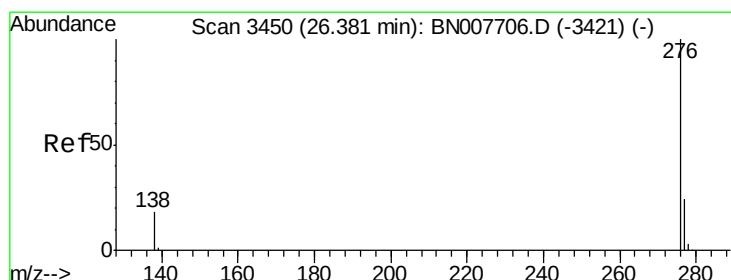
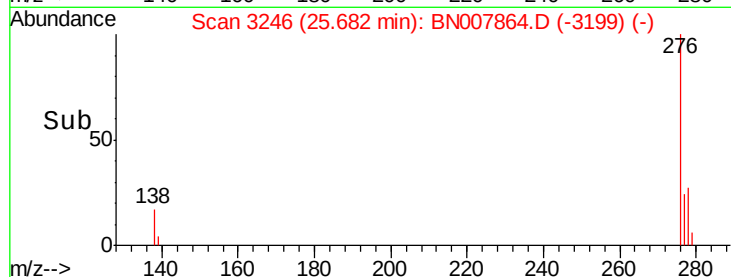
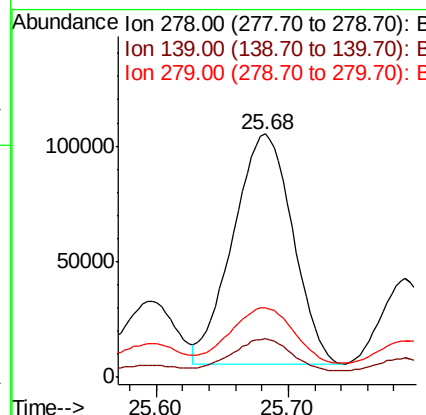
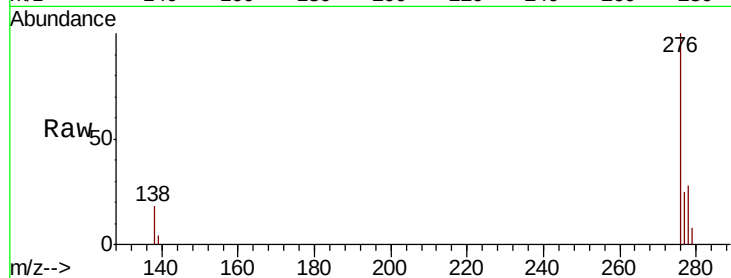
#38
Dibenzo(a,h)anthracene
Concen: 1.645 ng
RT: 25.68 min Scan# 3246
Delta R.T. -0.04 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Instrument :
BNA_N
ClientSampleId :
EXT-SW092-091819-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.7	11.8	17.6
279	28.8	19.4	29.2

Manual Integrations
APPROVED

mohammad
9/27/2019 8:28:06 AM



#39
Benzo(g,h,i)perylene
Concen: 6.372 ng
RT: 26.35 min Scan# 3442
Delta R.T. -0.03 min
Lab File: BN007864.D
Acq: 25 Sep 2019 21:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.8	29.8
138	18.6	15.1	22.7

