

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007227.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4239-17
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:43:23 AM

Quant Time: Aug 17 01:52:59 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	7273	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	27641	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	18482	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	36018	0.40	ng	-0.01
26) Chrysene-d12	21.05	240	39475	0.40	ng	-0.01
32) Perylene-d12	23.15	264	50930	0.40	ng	-0.02

System Monitoring Compounds

3) 2-Fluorophenol	5.05	112	5892	0.34	ng	0.00
4) Phenol-d6	6.61	99	7626	0.35	ng	0.00
7) Nitrobenzene-d5	8.55	82	6736	0.30	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	12018	0.23	ng	-0.02
13) 2,4,6-Tribromophenol	15.57	330	2041	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	754	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	29751	0.23	ng	0.00
28) Terphenyl-d14	19.48	244	24360	0.23	ng	-0.01

Target Compounds

						Qvalue
8) Naphthalene	10.23	128	42622	0.550	ng	99
11) 2-Methylnaphthalene	11.85	142	57576	1.048	ng	97
15) Acenaphthylene	13.78	152	212811	2.203	ng	# 95
16) Acenaphthene	14.13	154	92340	1.492	ng	93
17) Fluorene	15.12	166	175978	1.901	ng	# 84
22) Phenanthrene	16.86	178	4368001	40.466	ng	99
23) Anthracene	16.95	178	676695	6.861	ng	98
25) Fluoranthene	18.89	202	4160070	30.128	ng	97
27) Pyrene	19.26	202	7102221	51.304	ng	# 93
29) Benzo(a)anthracene	21.02	228	3194018	22.125	ng	95
30) Chrysene	21.08	228	3462253	24.685	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	1180801	7.638	ng	98
33) Benzo(b)fluoranthene	22.54	252	2527711m	14.474	ng	
34) Benzo(k)fluoranthene	22.57	252	816403m	4.733	ng	
35) Benzo(a)pyrene	23.07	252	2275007	14.369	ng	98
36) Dibenzo(a,h)anthracene	25.24	278	407006	2.576	ng	93
37) Benzo(a,h,i)perylene	25.87	276	1466473	9.025	ng	100

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

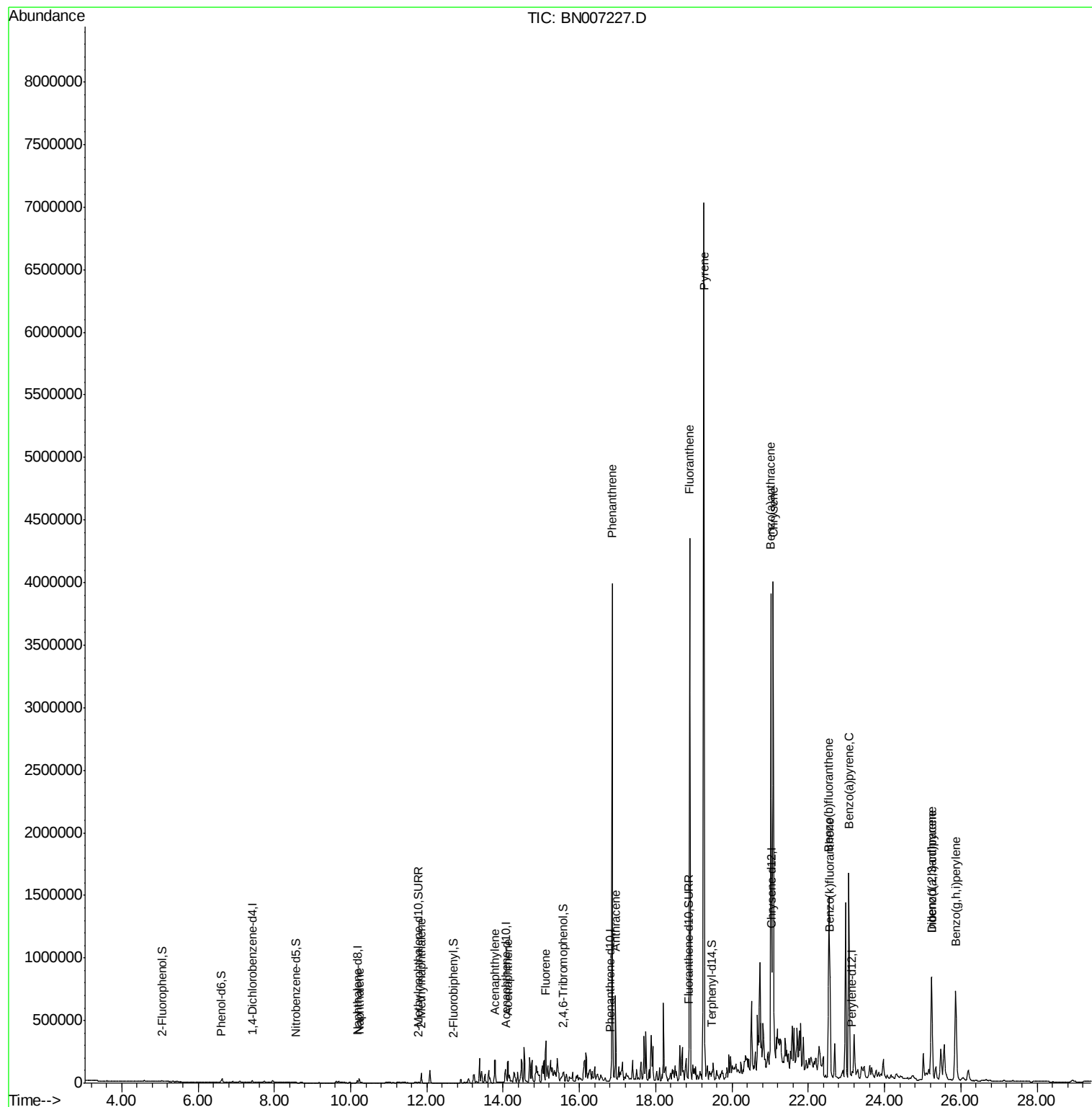
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007227.D
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Misc :
ALS Vial : 10 Sample Multiplier: 1

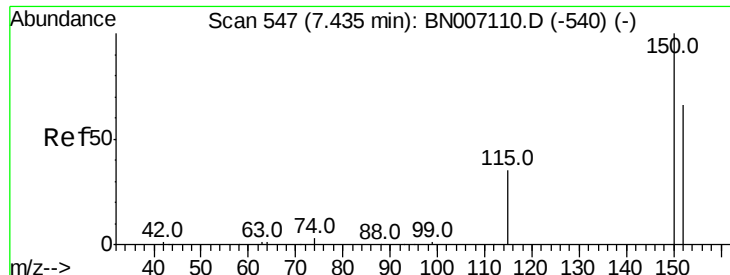
Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519

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8/20/2019 8:43:23 AM

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
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#1

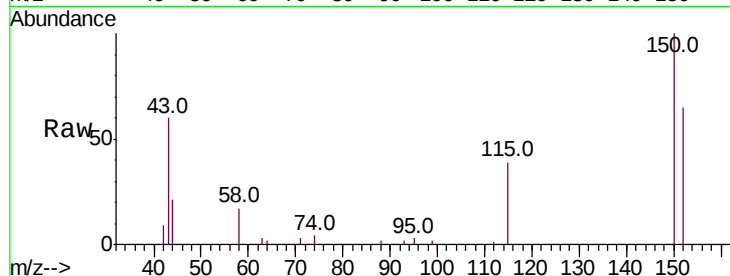
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.8	121.7	182.5
115	60.3	46.2	69.4

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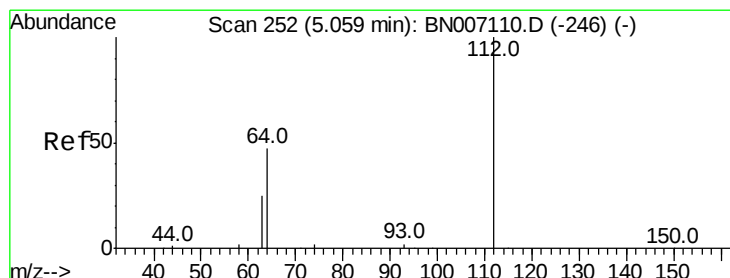
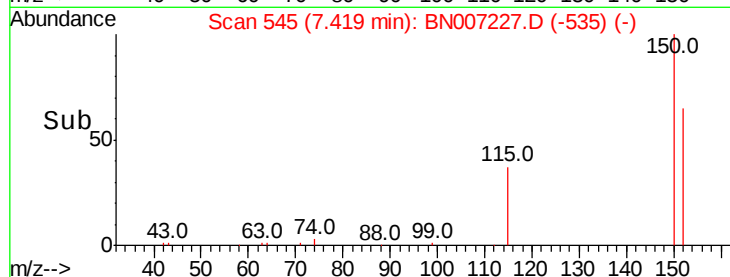
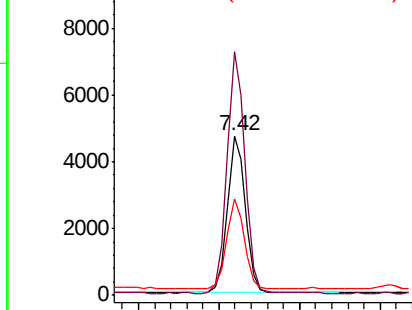


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

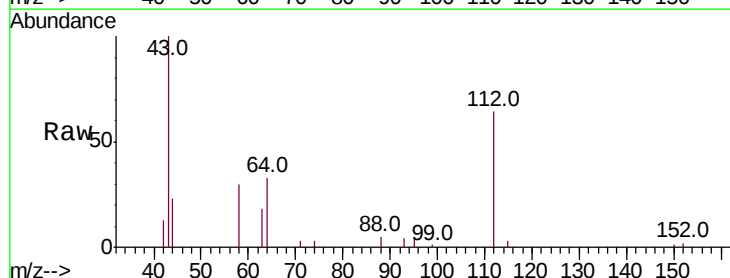
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.337 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	42.6	63.8
63	27.5	22.2	33.2

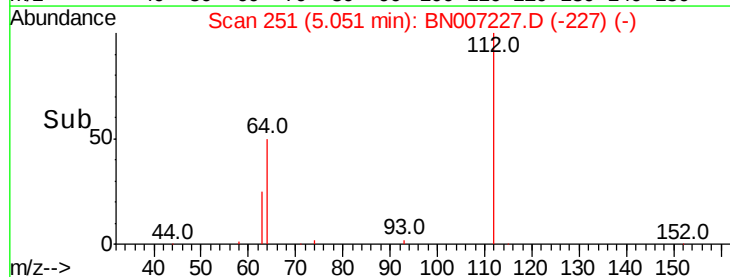
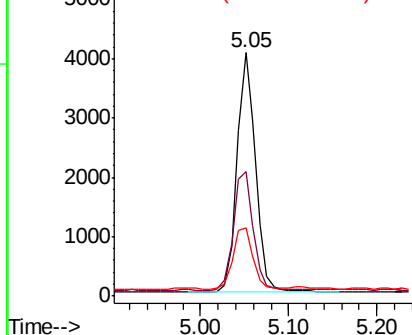


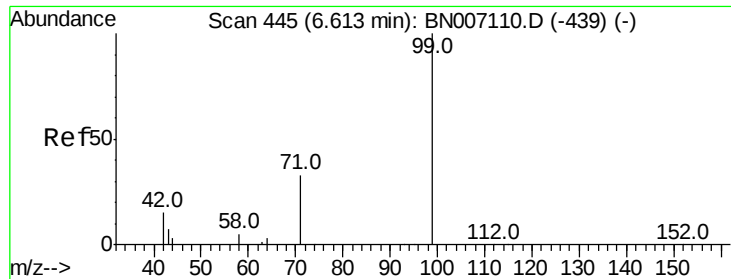
Abundance

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: 0.352 ng

RT: 6.61 min Scan# 444

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

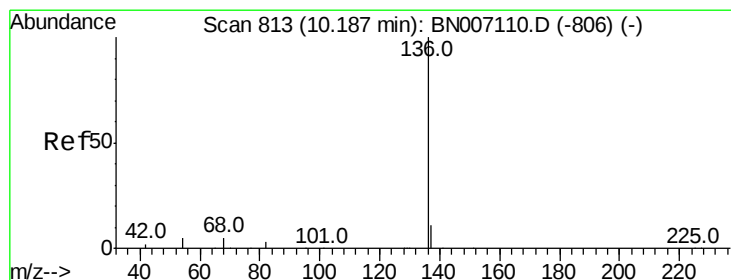
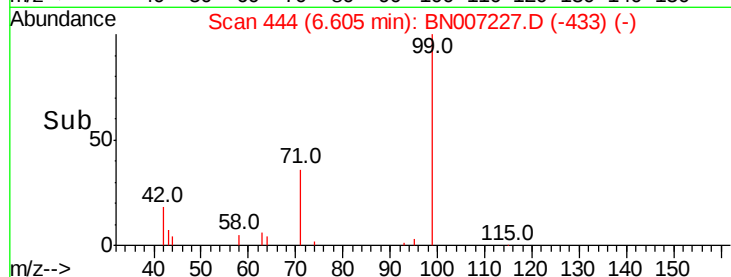
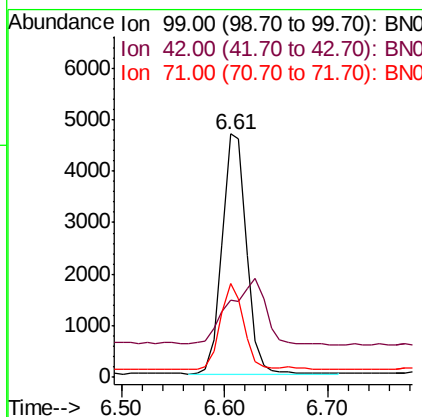
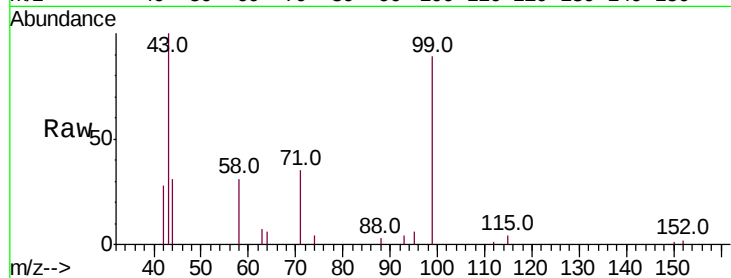
ClientSampleId :

EXT-034-SW092-080519

Tot Ion:	99	Resp:	7626
Ion Ratio	Lower	Upper	
99	100		
42	0.0	15.8	23.6#
71	34.3	27.0	40.4

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#6

Naphthalene-d8

Concen: 0.400 ng

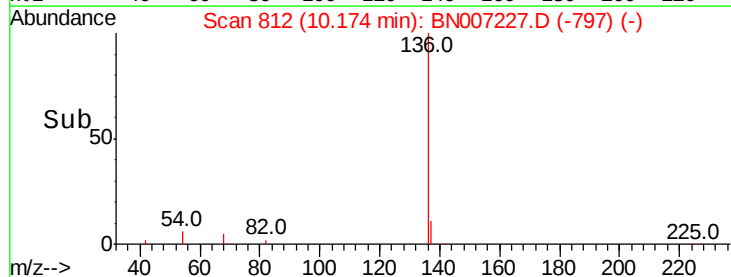
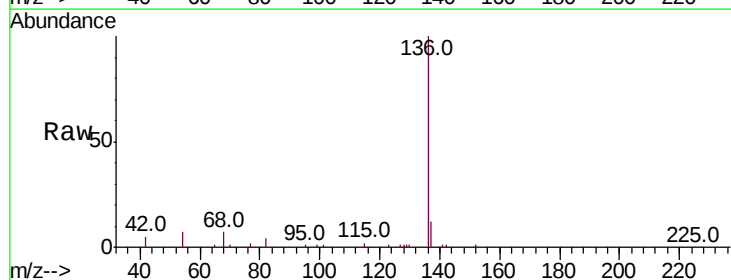
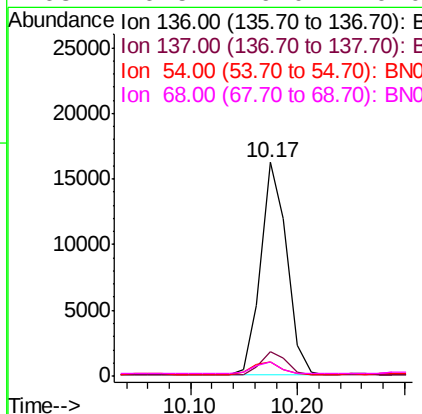
RT: 10.17 min Scan# 812

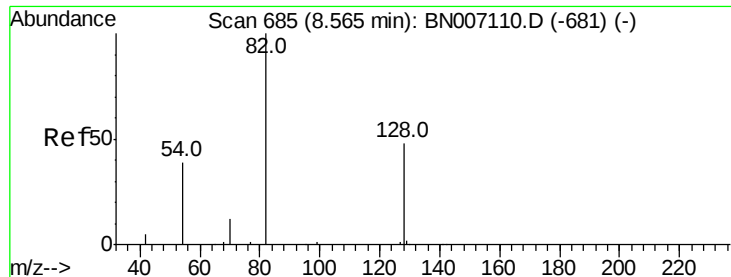
Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion:	136	Resp:	27641
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.4	14.0
54	6.7	6.6	9.8
68	6.5	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.302 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

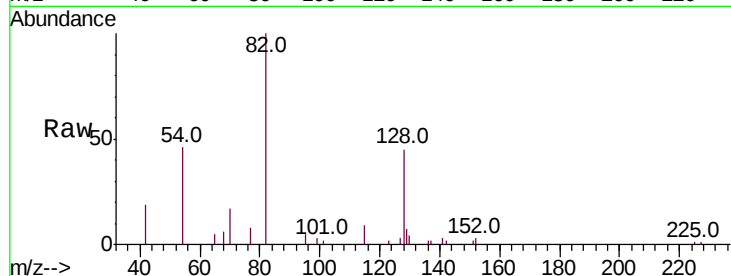
ClientSampleId :

EXT-034-SW092-080519

Tot Ion:	82	Resp:	6736
Ion Ratio	Lower	Upper	
82	100		
128	45.0	34.6	51.8
54	45.6	36.2	54.4

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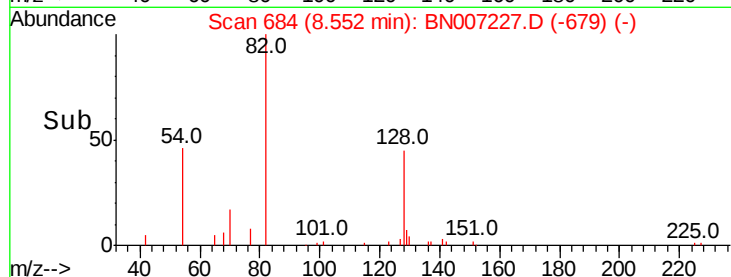
Abundance Ion 82.00 (81.70 to 82.70): BN007227.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007227.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007227.D (-681) (-)

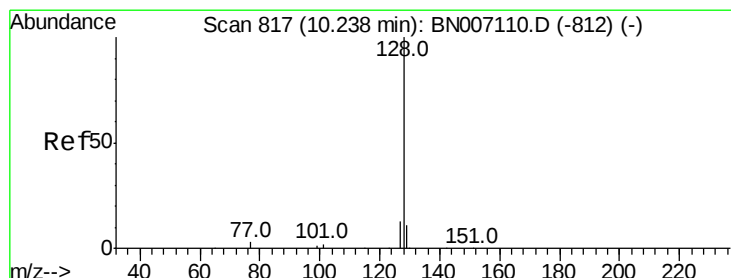
8.55

Time-->



8.55

Time-->



#8

Naphthalene

Concen: 0.550 ng

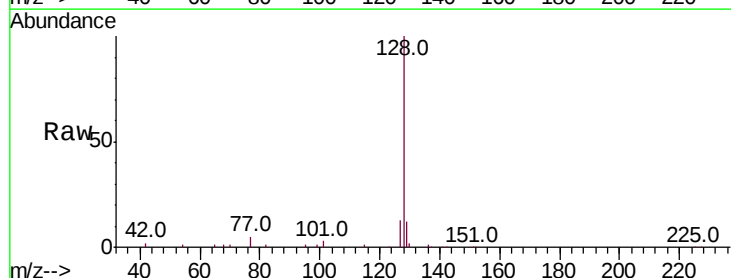
RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion:	128	Resp:	42622
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.4	14.2
127	13.3	11.0	16.6



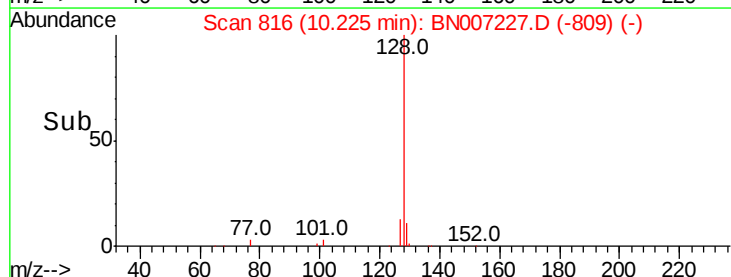
Abundance Ion 128.00 (127.70 to 128.70): BN007227.D (-812) (-)

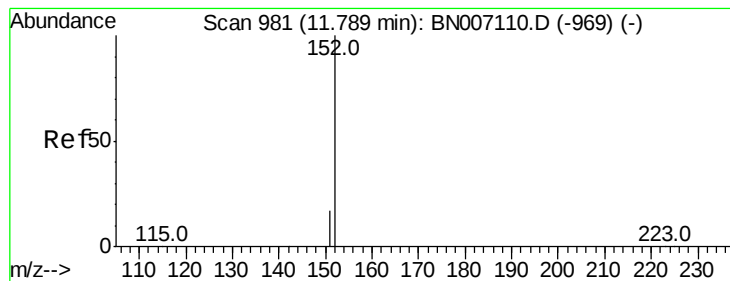
Ion 129.00 (128.70 to 129.70): BN007227.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007227.D (-812) (-)

10.23

Time-->





#10

2-Methylnaphthalene-d10

Concen: 0.233 ng

RT: 11.78 min Scan# 978

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

Tot Ion:152 Resp: 12018

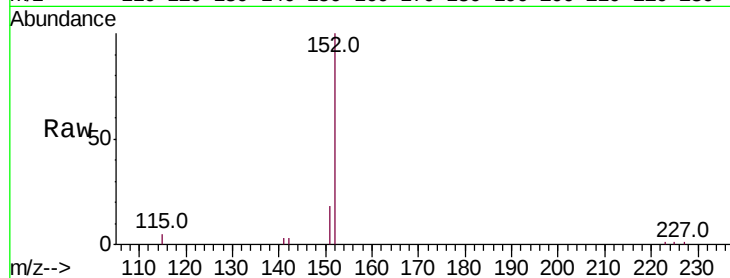
Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3

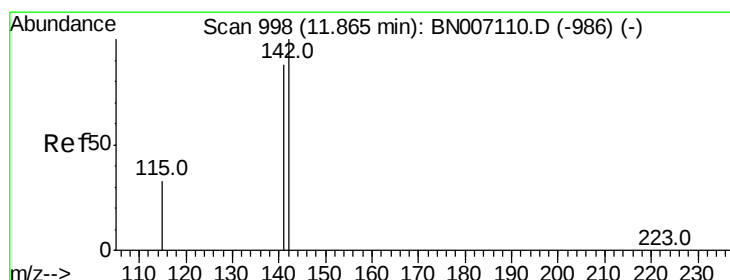
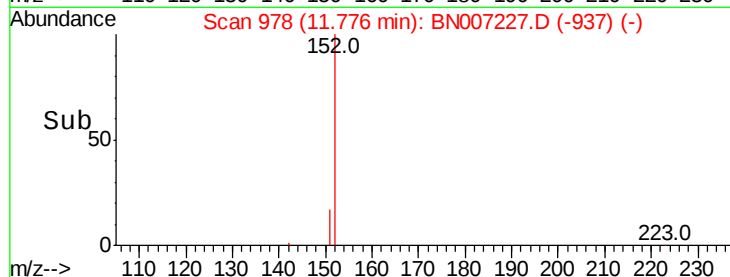
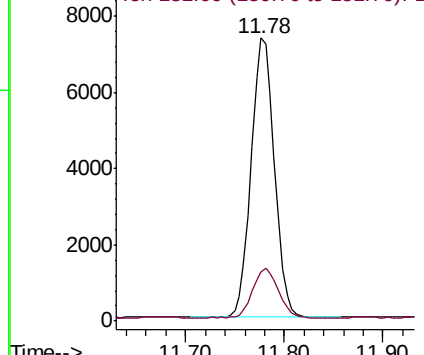
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 1.048 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

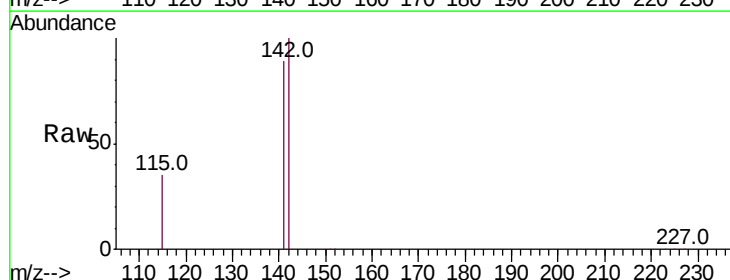
Tgt Ion:142 Resp: 57576

Ion Ratio Lower Upper

142 100

141 88.9 69.0 103.6

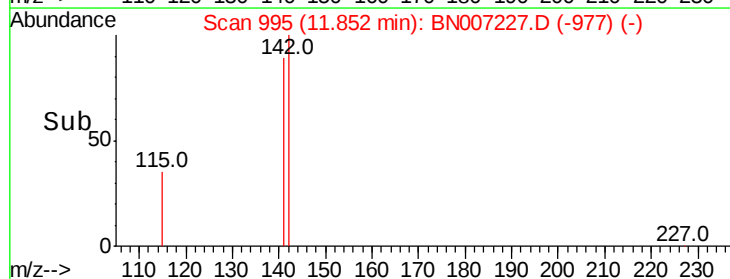
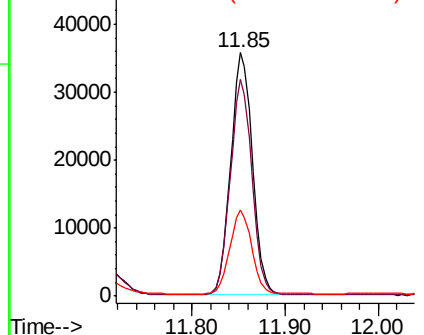
115 35.3 27.1 40.7

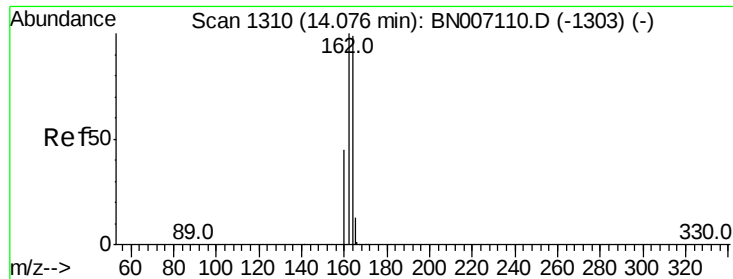


Abundance Ion 142.00 (141.70 to 142.70): E

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: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

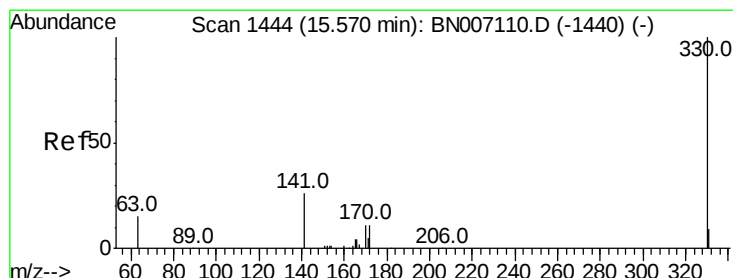
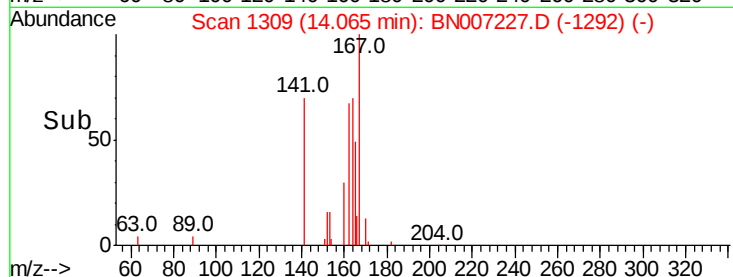
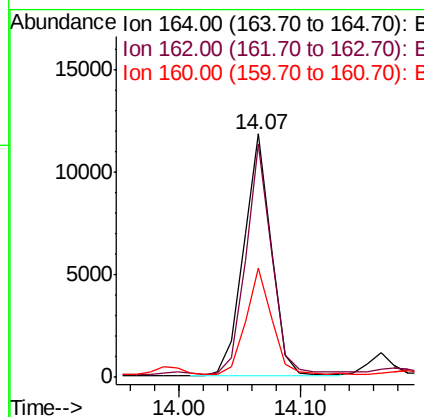
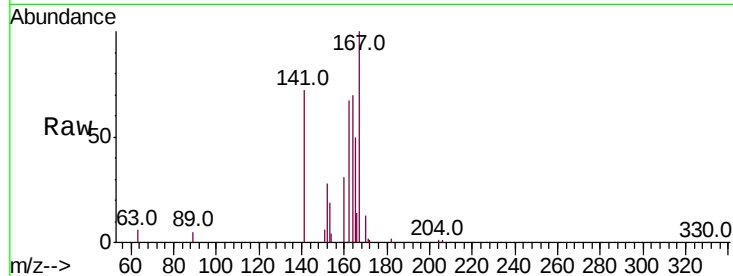
ClientSampleId :

EXT-034-SW092-080519

Tot Ion:	164	Resp:	18482
Ion Ratio	Lower	Upper	
164	100		
162	95.6	82.2	123.4
160	44.7	38.3	57.5

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#13

2,4,6-Tribromophenol

Concen: 0.205 ng

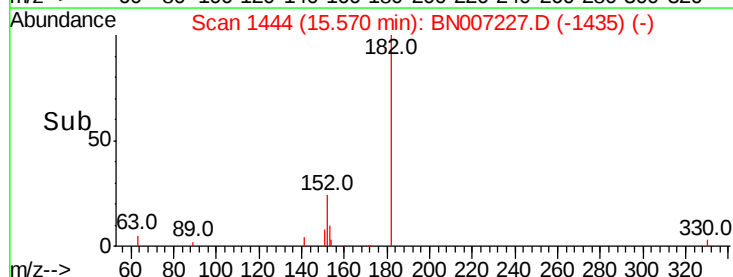
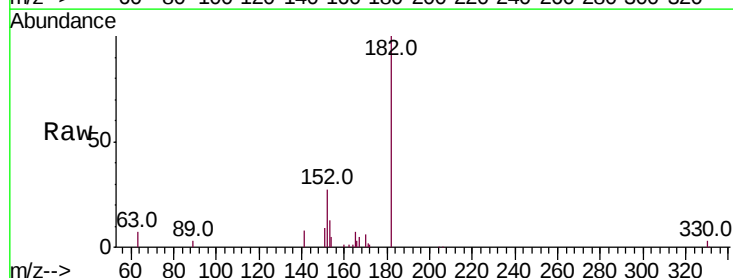
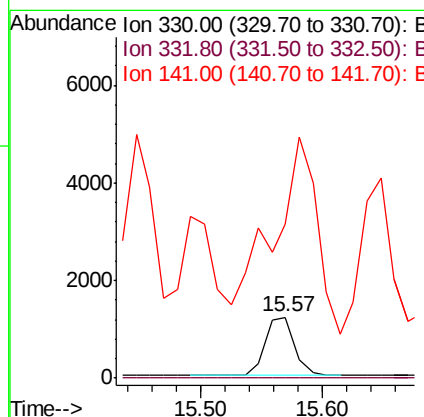
RT: 15.57 min Scan# 1444

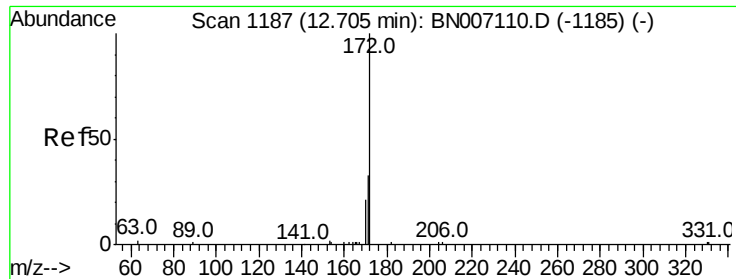
Delta R.T. -0.00 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion:	330	Resp:	2041
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	504.7	33.6	50.4#





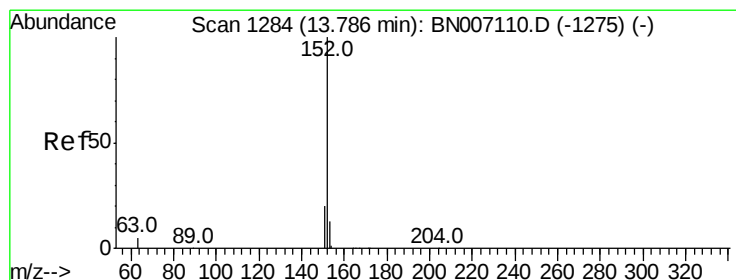
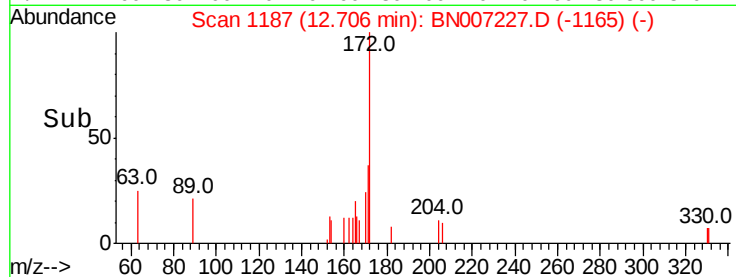
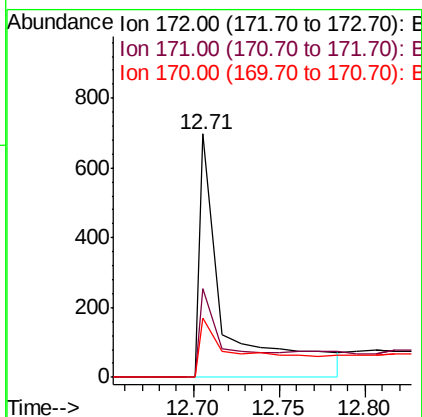
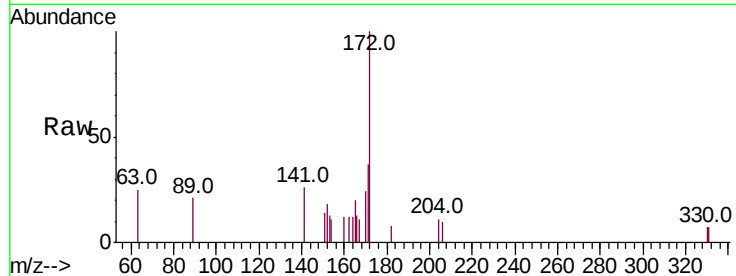
#14
2-Fluorobiphenyl
Concen: 0.028 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519

Tot Ion:	172	Resp:	754
Ion Ratio	Lower	Upper	
172	100		
171	36.7	26.3	39.5
170	24.4	17.0	25.4

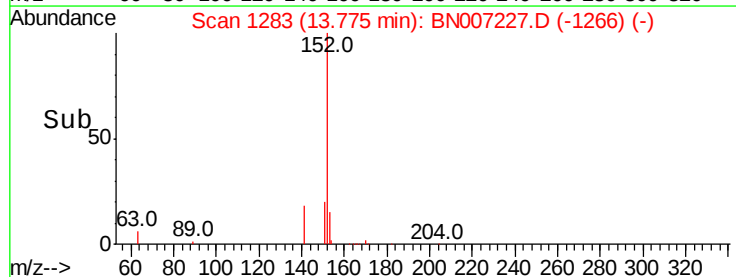
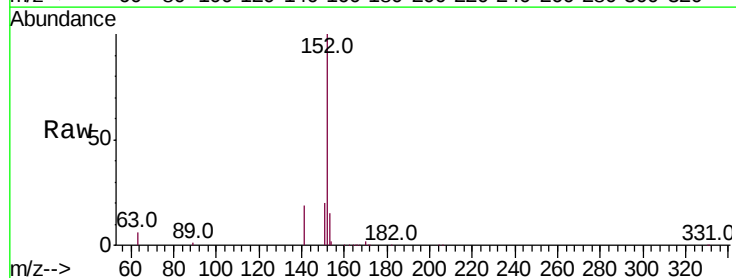
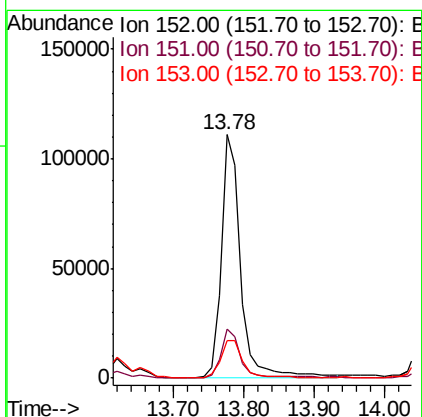
Manual Integrations
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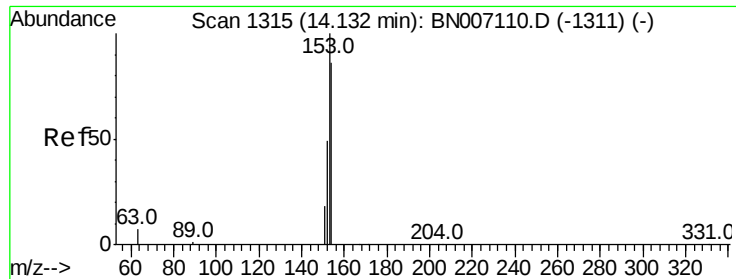
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#15
Acenaphthylene
Concen: 2.203 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Tgt Ion:	152	Resp:	212811
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.8	23.6
153	17.4	10.4	15.6#





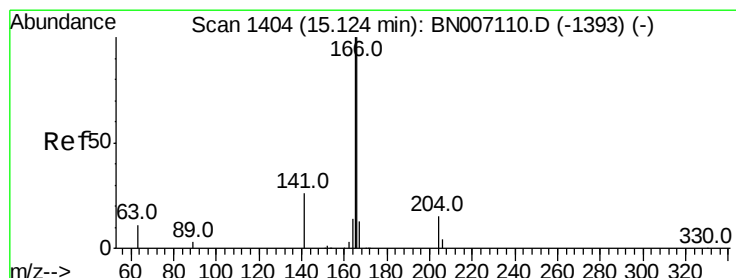
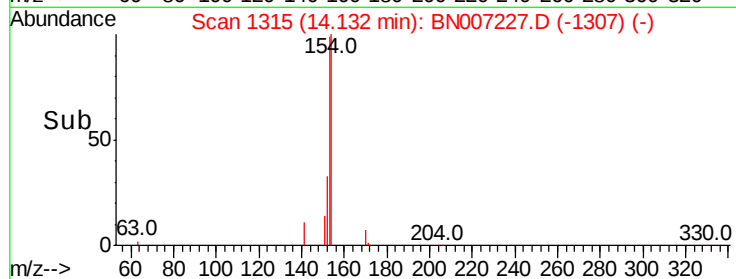
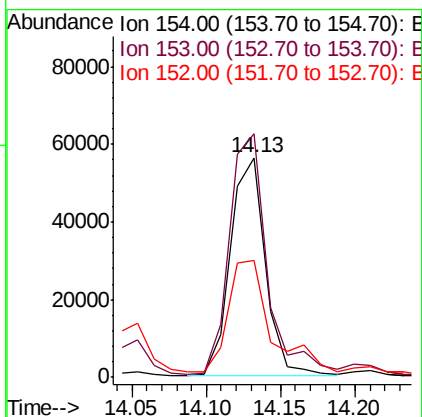
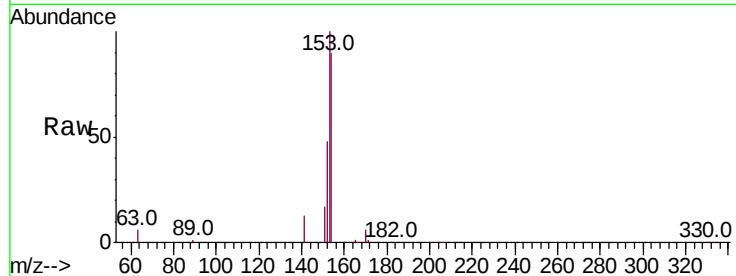
#16
Acenaphthene
Concen: 1.492 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519

Tot Ion:	154	Resp:	92340
Ion Ratio	Lower	Upper	
154	100		
153	119.0	89.5	134.3
152	61.7	44.8	67.2

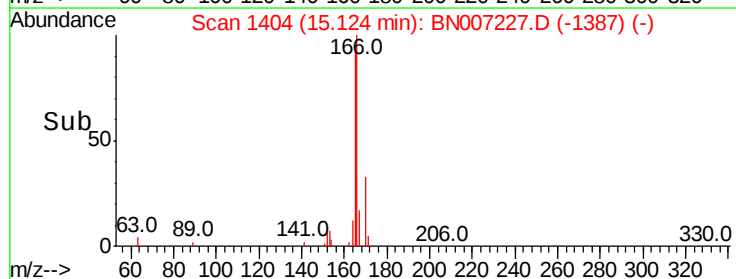
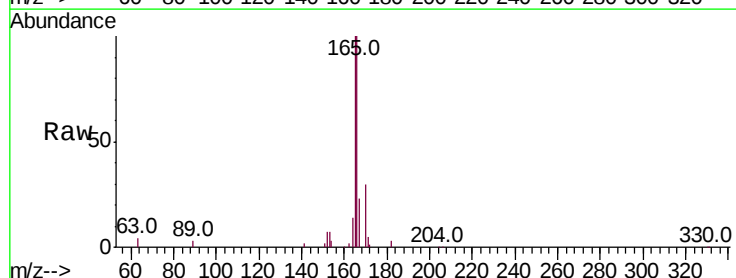
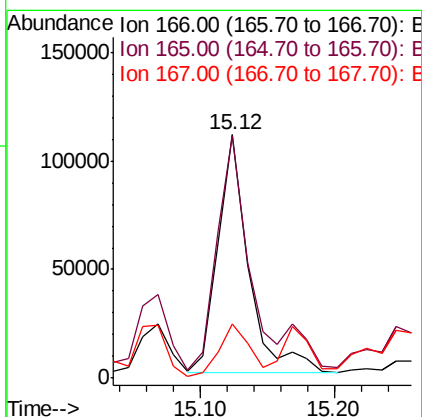
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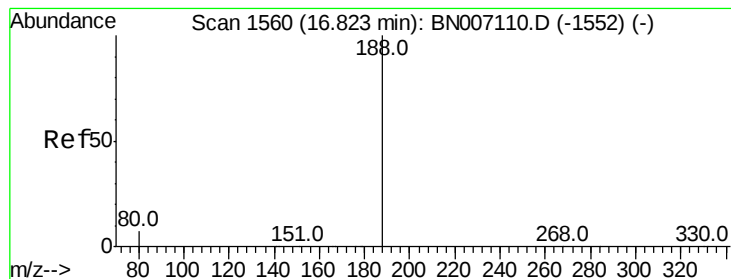
mohammad
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#17
Fluorene
Concen: 1.901 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Tgt Ion:	166	Resp:	175978
Ion Ratio	Lower	Upper	
166	100		
165	112.3	77.9	116.9
167	21.1	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: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

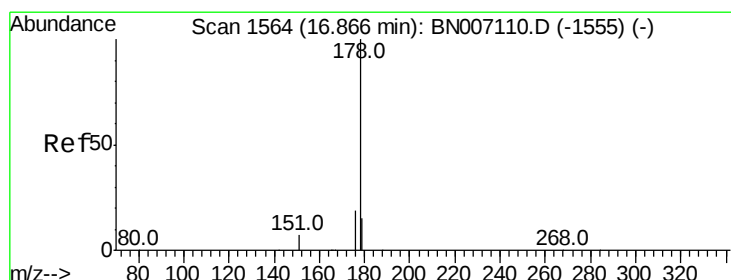
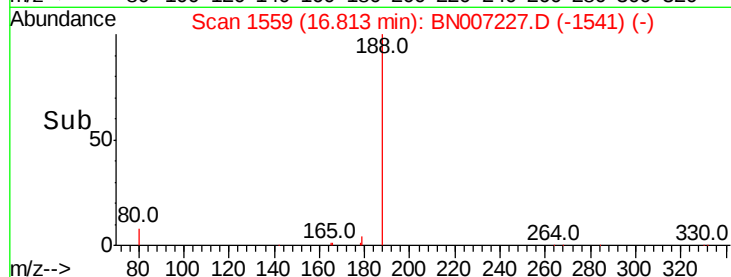
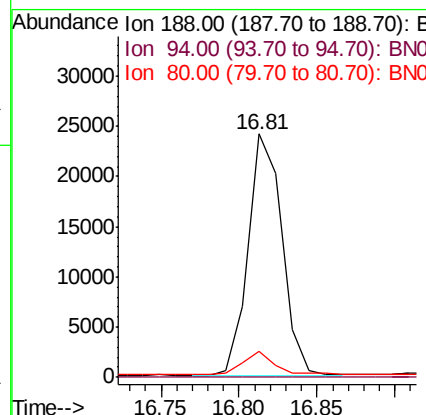
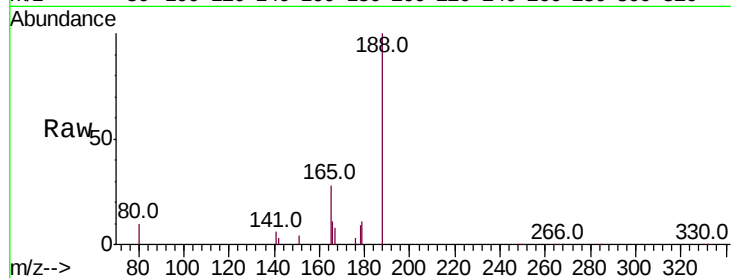
ClientSampleId :

EXT-034-SW092-080519

Tot Ion:	188	Resp:	36018
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.5	7.8	11.6

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#22

Phenanthrene

Concen: 40.466 ng

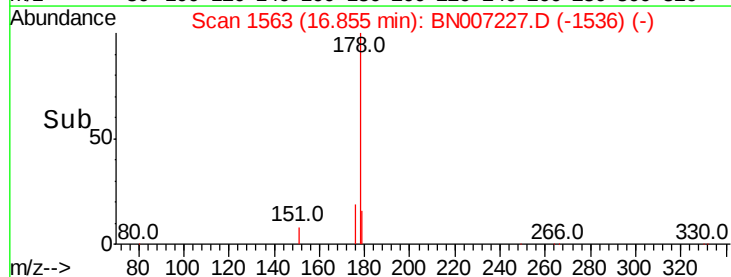
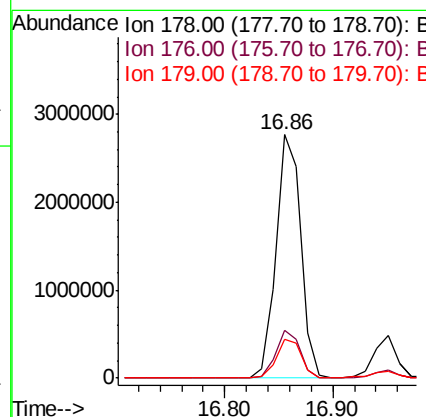
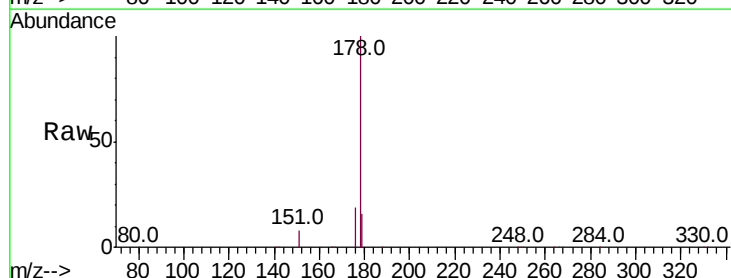
RT: 16.86 min Scan# 1563

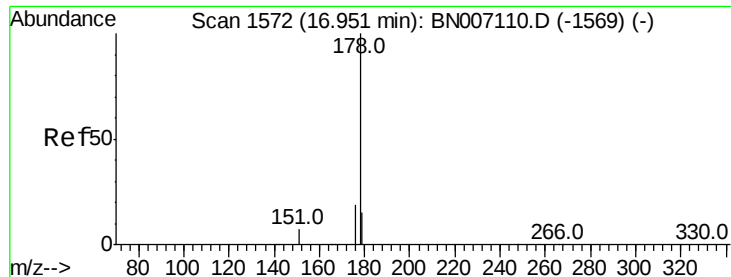
Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion:	178	Resp:	4368001
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.2	22.8
179	16.2	12.3	18.5





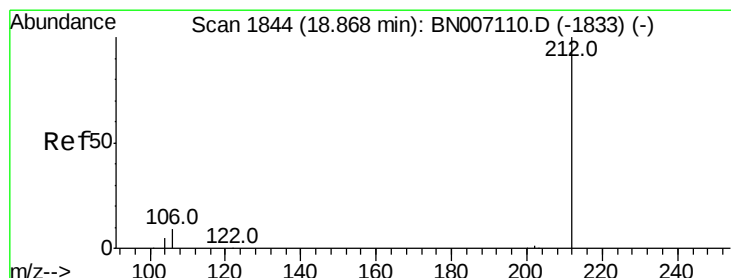
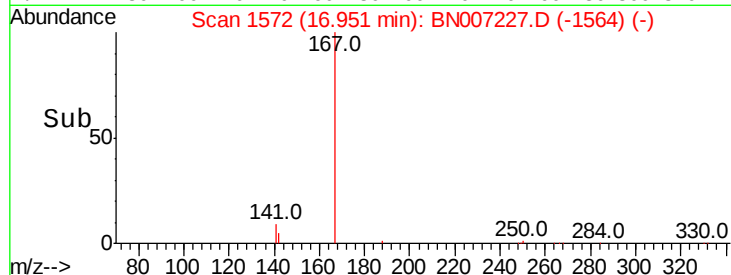
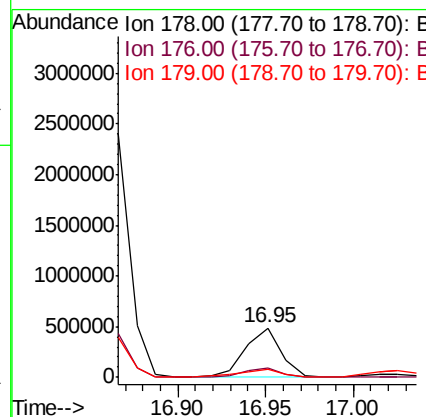
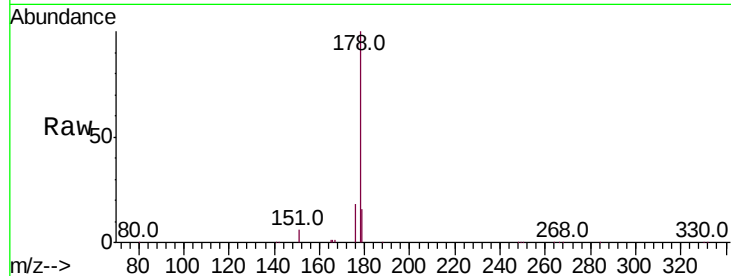
#23
 Anthracene
 Concen: 6.861 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	17.4	12.5	18.7

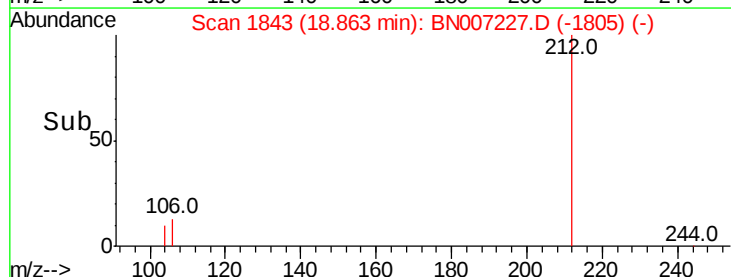
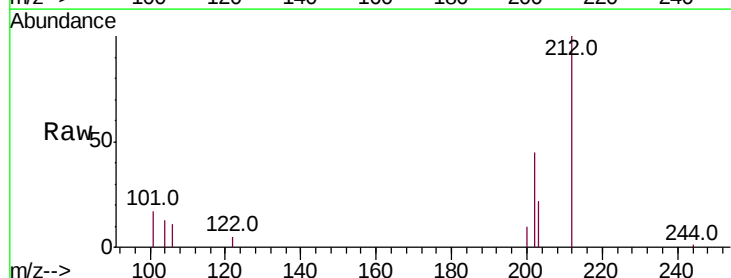
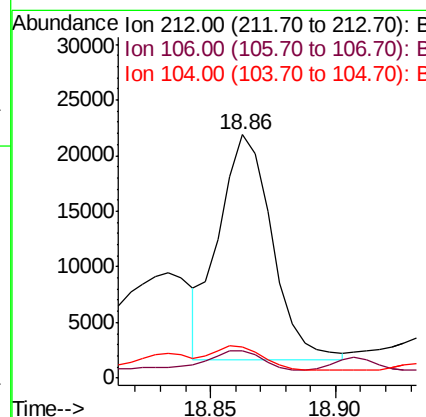
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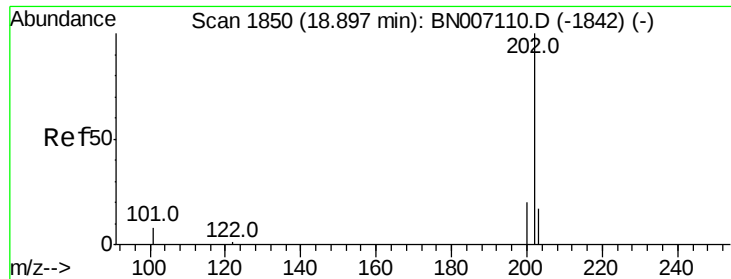
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#24
 Fluoranthene-d10
 Concen: 0.233 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.3	8.2	12.2
104	10.9	4.5	6.7#





#25

Fluoranthene

Concen: 30.128 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

Tot Ion:202 Resp: 4160070

Ion Ratio Lower Upper

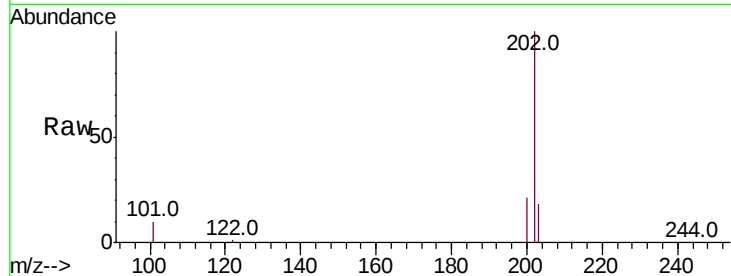
202 100

101 9.2 7.0 10.4

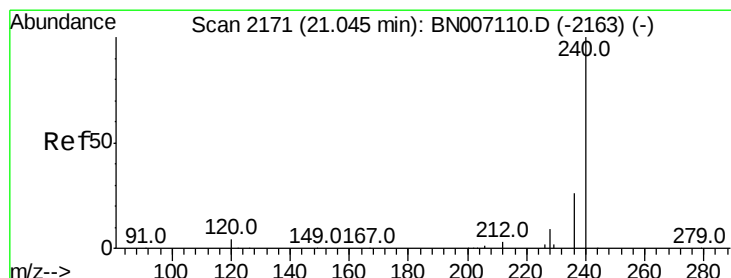
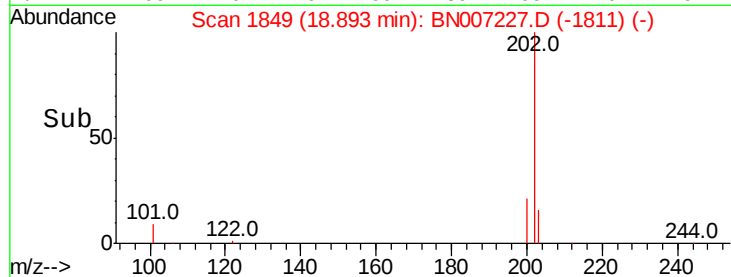
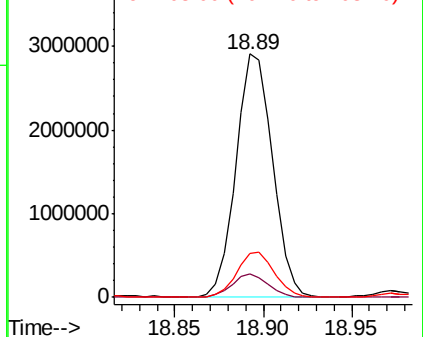
203 18.8 13.8 20.8

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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: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

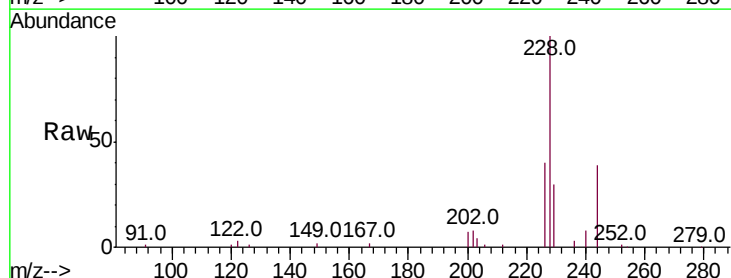
Tgt Ion:240 Resp: 39475

Ion Ratio Lower Upper

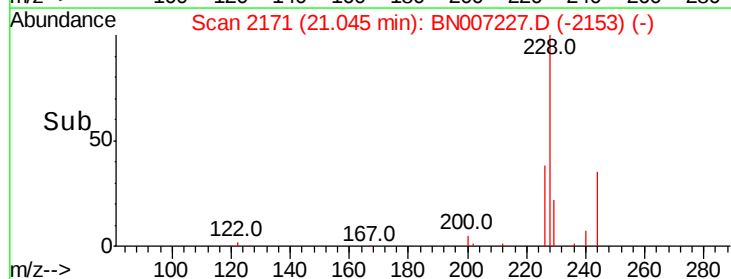
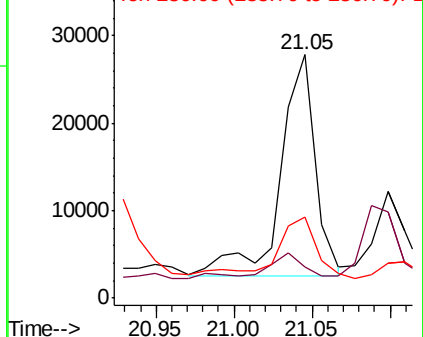
240 100

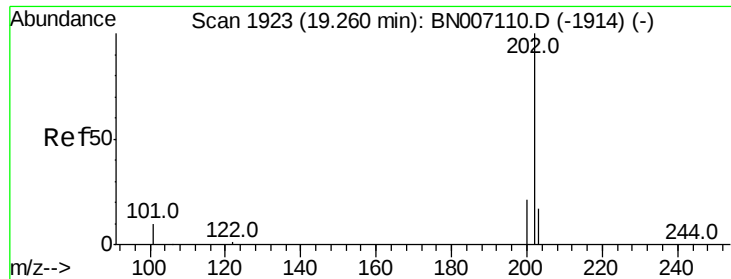
120 12.6 4.0 6.0#

236 33.4 21.3 31.9#



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





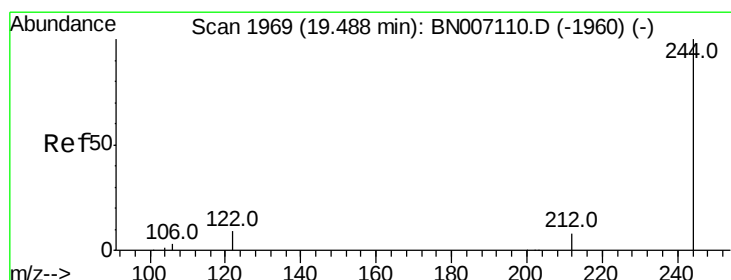
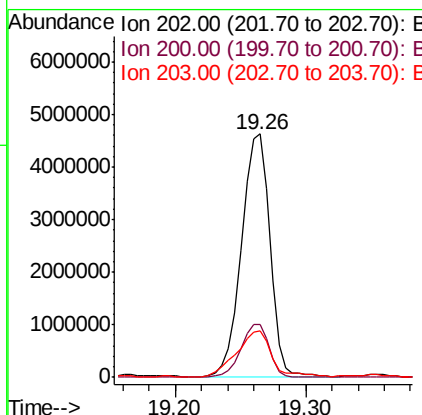
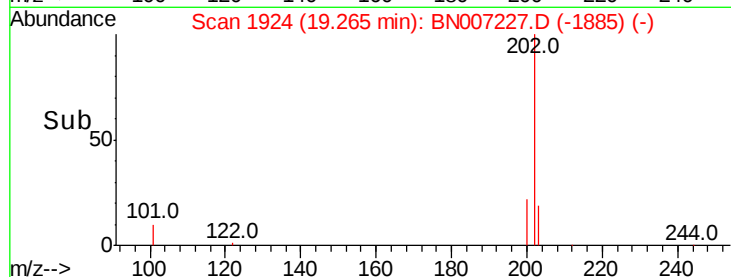
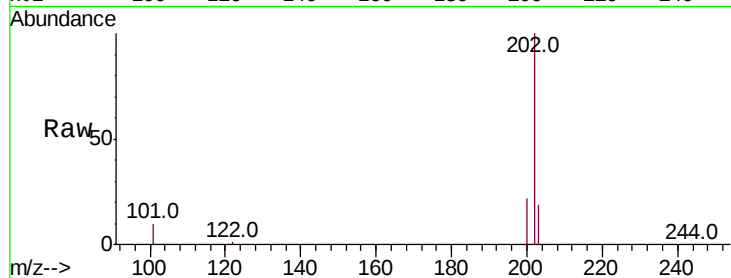
#27
Pvrene
Concen: 51.304 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.00 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.6	24.8
203	23.3	14.0	21.0#

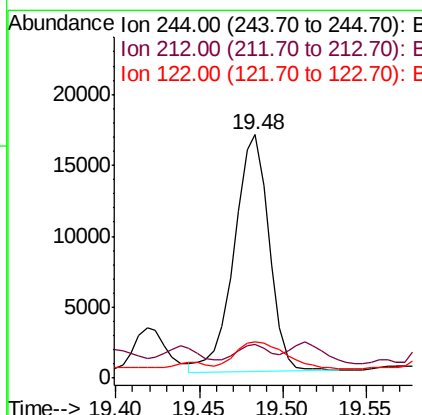
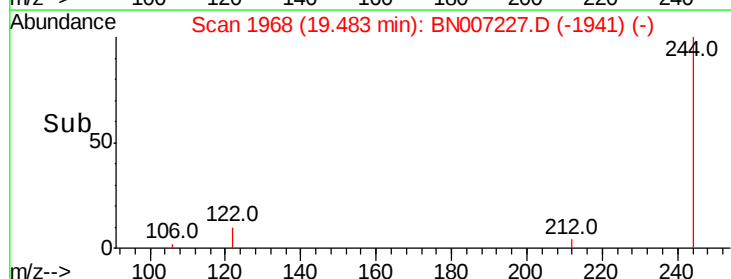
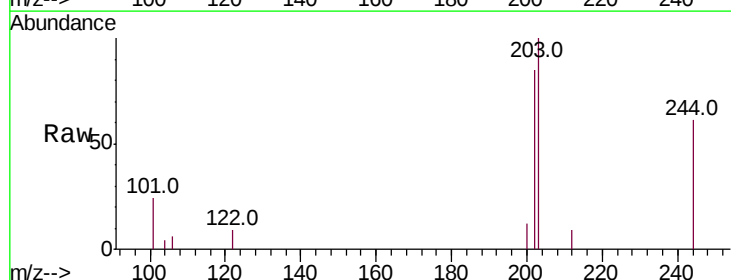
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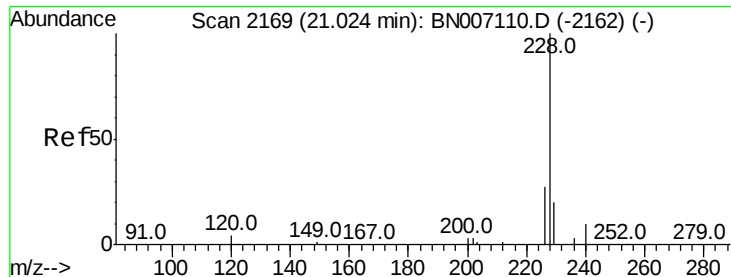
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#28
Terphenyl-d14
Concen: 0.226 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.01 min
Lab File: BN007227.D
Acq: 16 Aug 2019 17:36

Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.0	6.2	9.2#
122	15.0	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 22.125 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

Tot Ion:228 Resp: 3194018

Ion Ratio Lower Upper

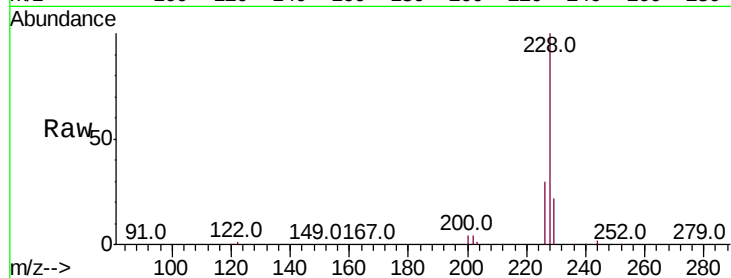
228 100

226 29.7 21.8 32.6

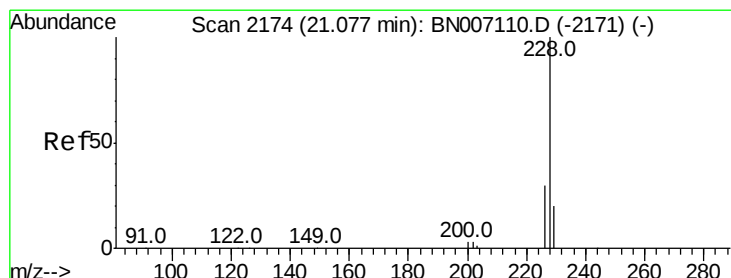
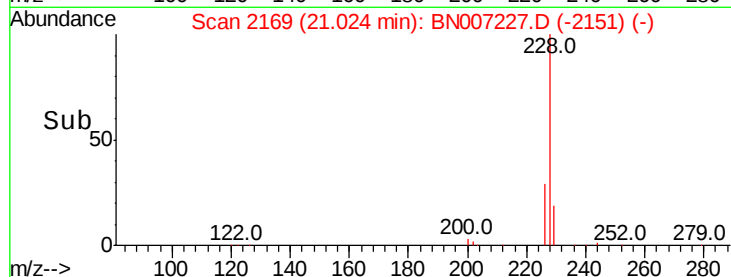
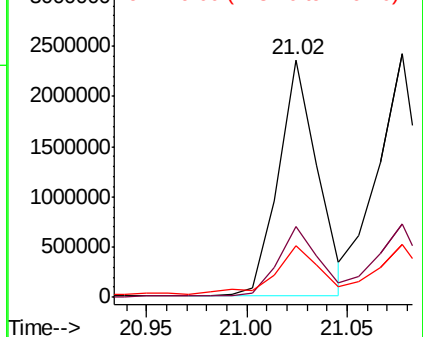
229 22.0 15.6 23.4

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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: 24.685 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion:228 Resp: 3462253

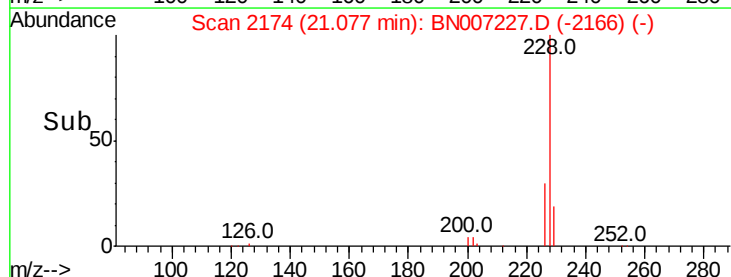
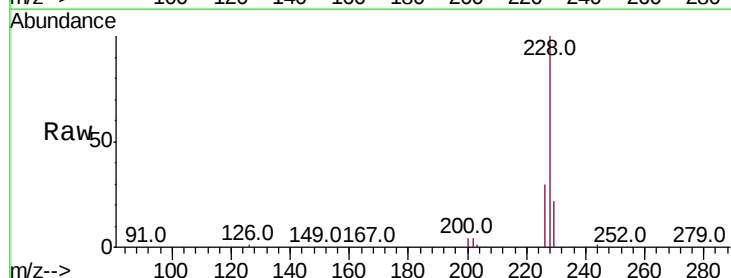
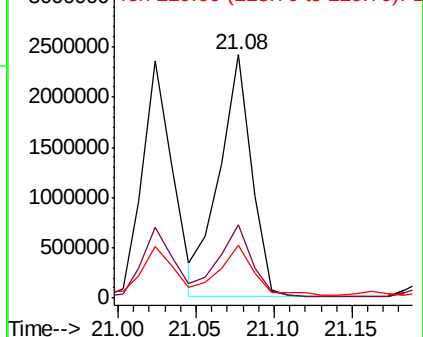
Ion Ratio Lower Upper

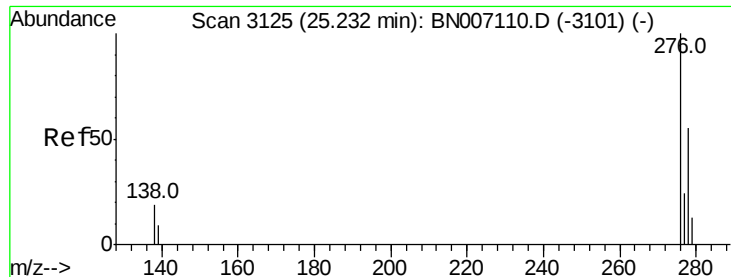
228 100

226 30.0 23.8 35.6

229 21.7 15.7 23.5

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





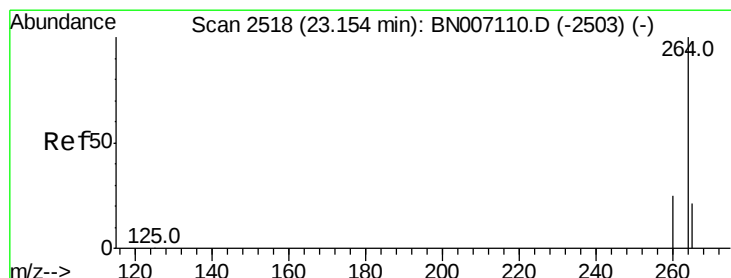
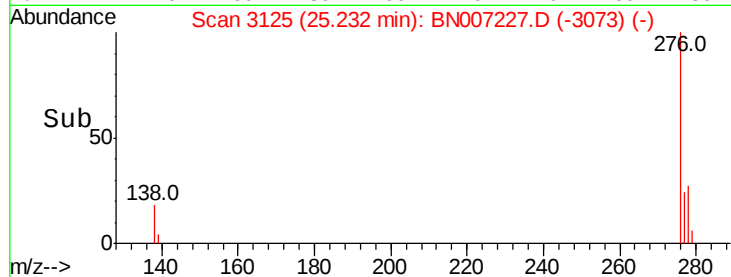
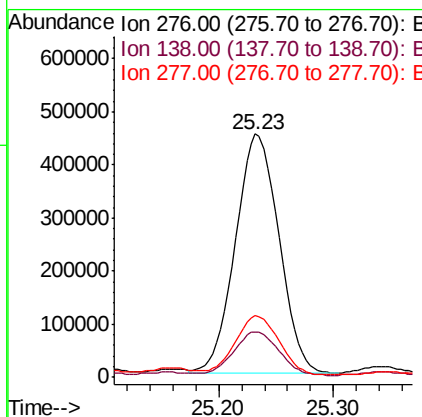
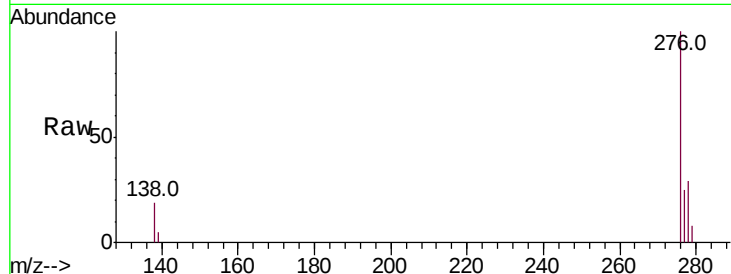
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 7.638 ng
 RT: 25.23 min Scan# 3125
 Delta R.T. -0.02 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.7	16.0	24.0
277	25.2	19.9	29.9

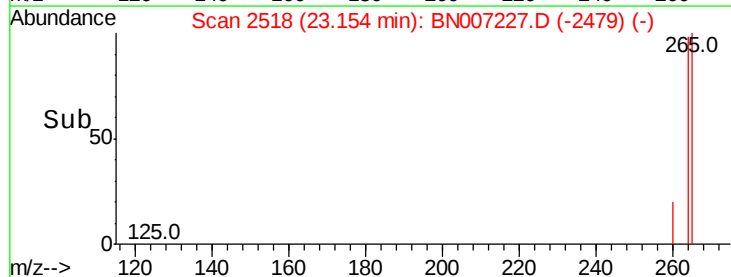
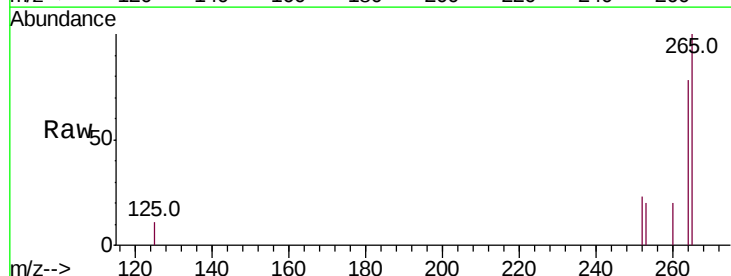
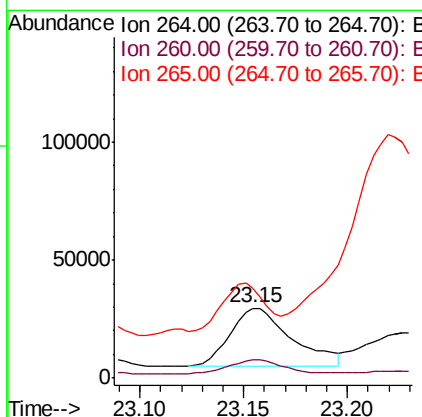
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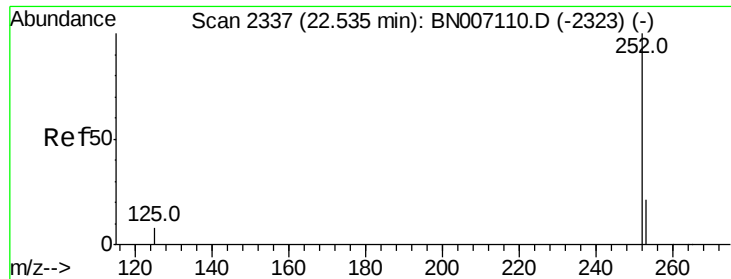
mohammad
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#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.0	19.8	29.8
265	128.0	26.2	39.4#





#33

Benzo(b)fluoranthene

Concen: 14.474 ng m

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

Tot Ion:252 Resp: 2527711

Ion Ratio Lower Upper

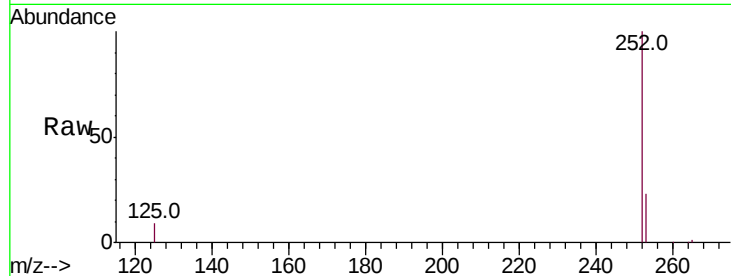
252 100

253 23.0 18.2 27.2

125 8.8 7.4 11.0

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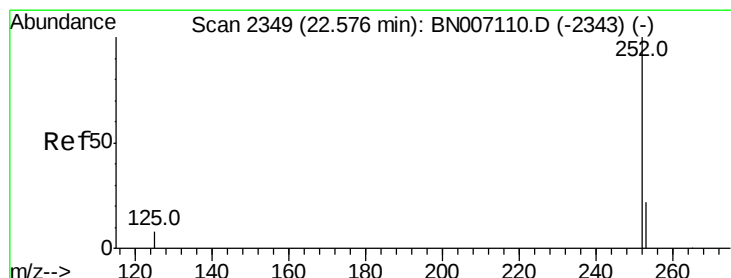
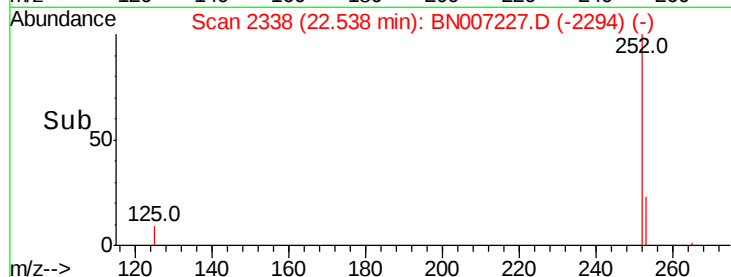
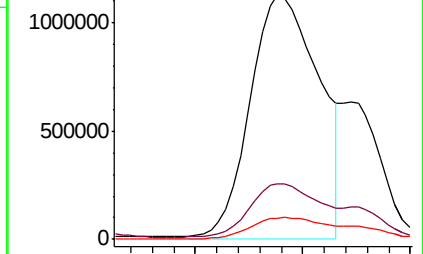
mohammad
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34

Benzo(k)fluoranthene

Concen: 4.733 ng m

RT: 22.57 min Scan# 2348

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion:252 Resp: 816403

Ion Ratio Lower Upper

252 100

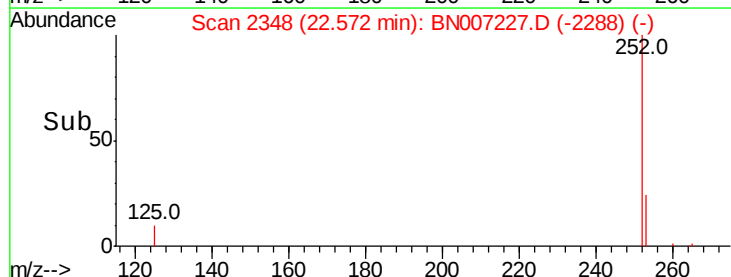
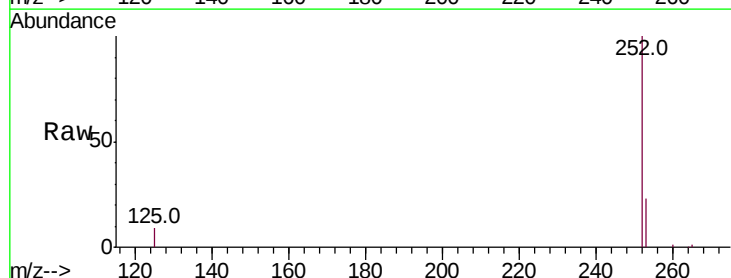
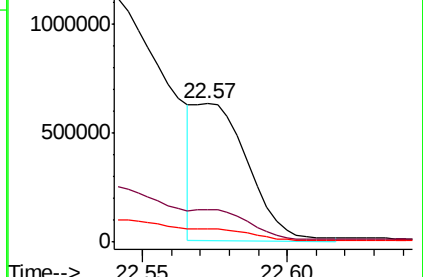
253 23.5 18.1 27.1

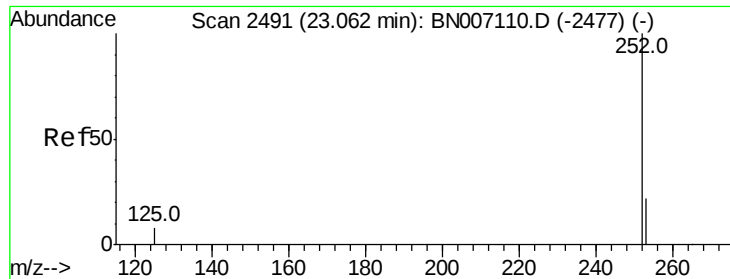
125 9.4 7.4 11.0

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: 14.369 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

Tot Ion:252 Resp: 2275007

Ion Ratio Lower Upper

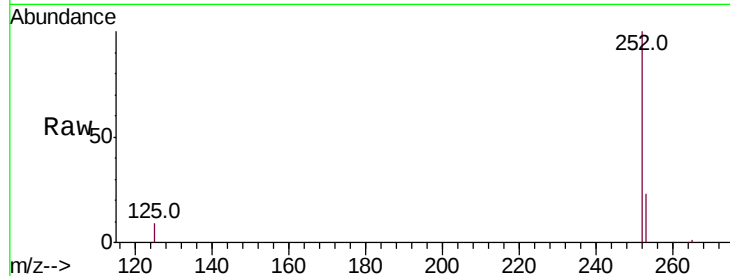
252 100

253 22.8 18.5 27.7

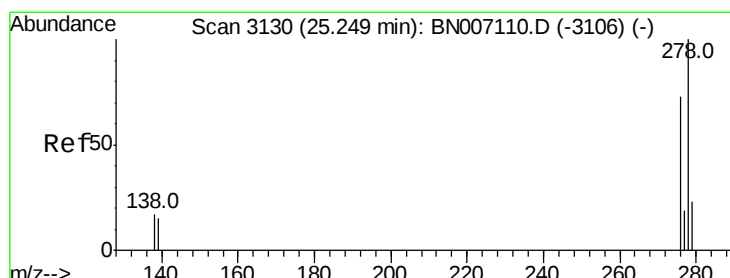
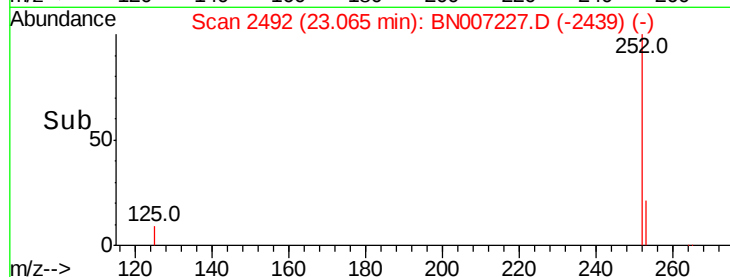
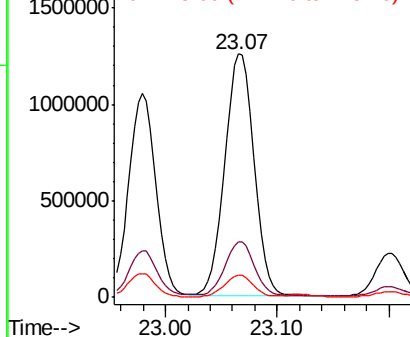
125 9.0 8.2 12.4

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8/20/2019 8:43:23 AM



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



#36

Dibenzo(a,h)anthracene

Concen: 2.576 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.03 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

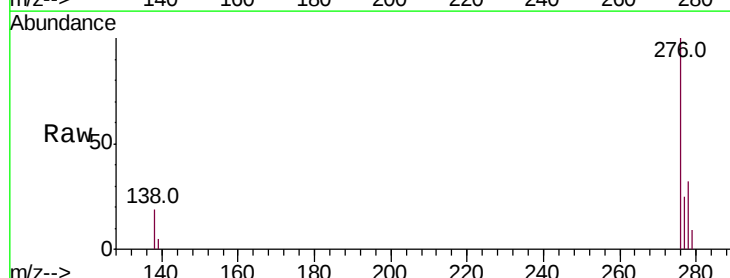
Tgt Ion:278 Resp: 407006

Ion Ratio Lower Upper

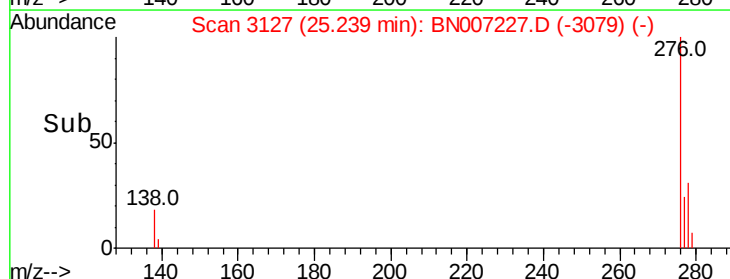
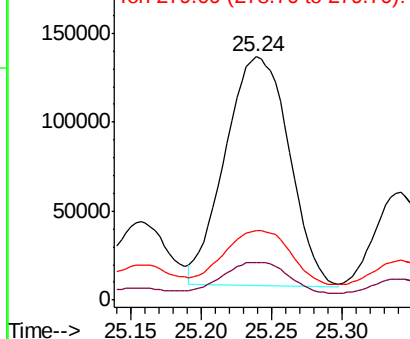
278 100

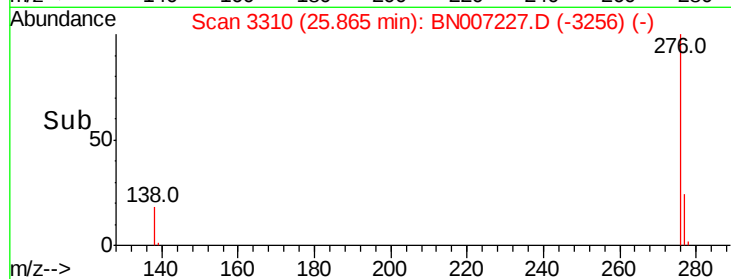
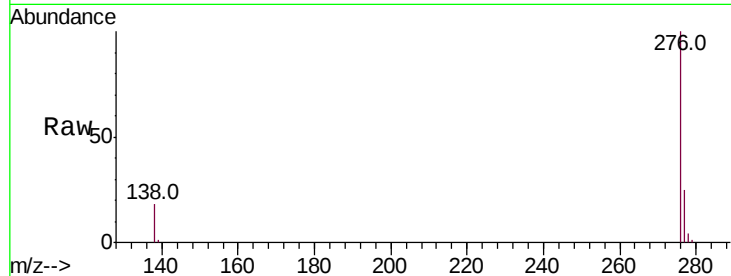
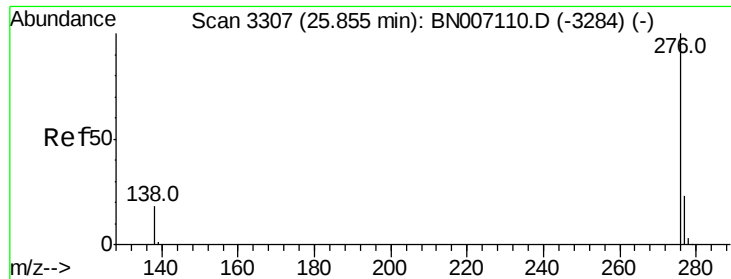
139 15.7 11.3 16.9

279 28.6 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: 9.025 ng
 RT: 25.87 min Scan# 3310
 Delta R.T. -0.01 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.8	29.8
138	18.4	14.6	22.0

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:43:23 AM

