

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008012.D
 Acq On : 04 Oct 2019 20:22
 Operator : JU
 Sample : K5078-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW069-092519

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:32 AM

Quant Time: Oct 05 03:48:53 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 03 18:39:49 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	17905	0.40	ng	-0.02
7) Naphthalene-d8	10.44	136	75312	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	47469	0.40	ng	-0.02
19) Phenanthrene-d10	17.05	188	105317	0.40	ng	-0.02
27) Chrysene-d12	21.26	240	137898	0.40	ng	-0.01
34) Perylene-d12	23.47	264	162102	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	10287	0.17	ng	0.00
5) Phenol-d6	6.87	99	13762	0.18	ng	0.00
8) Nitrobenzene-d5	8.82	82	12446	0.19	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	23775	0.19	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	5155	0.20	ng	-0.01
15) 2-Fluorobiphenyl	12.92	172	32295	0.17	ng	-0.02
25) Fluoranthene-d10	19.09	212	70339	0.20	ng	-0.02
29) Terphenyl-d14	19.69	244	61877	0.18	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.49	128	21529	0.102	ng	# 95
12) 2-Methylnaphthalene	12.12	142	30005	0.210	ng	98
16) Acenaphthylene	14.02	152	691252	2.746	ng	99
17) Acenaphthene	14.37	154	30756	0.189	ng	99
18) Fluorene	15.36	166	112111	0.539	ng	# 12
23) Phenanthrene	17.09	178	1349499	4.113	ng	99
24) Anthracene	17.19	178	540496	1.824	ng	100
26) Fluoranthene	19.12	202	2164241	5.305	ng	98
28) Pyrene	19.49	202	3012576	6.406	ng	96
30) Benzo(a)anthracene	21.24	228	1350013	2.658	ng	91
31) Chrysene	21.29	228	1814886	3.667	ng	97
32) Bis(2-ethylhexyl)phthalate	21.17	149	246298m	0.943	ng	
33) Indeno(1,2,3-cd)pyrene	25.69	276	918203	1.482	ng	# 95
35) Benzo(b)fluoranthene	22.82	252	1783179	3.169	ng	98
36) Benzo(k)fluoranthene	22.85	252	531356m	0.955	ng	
37) Benzo(a)pyrene	23.38	252	1313300	2.483	ng	98
38) Dibenzo(a,h)anthracene	25.69	278	251063	0.464	ng	# 84
39) Benzo(a,h,i)perylene	26.37	276	999152	1.866	ng	98

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

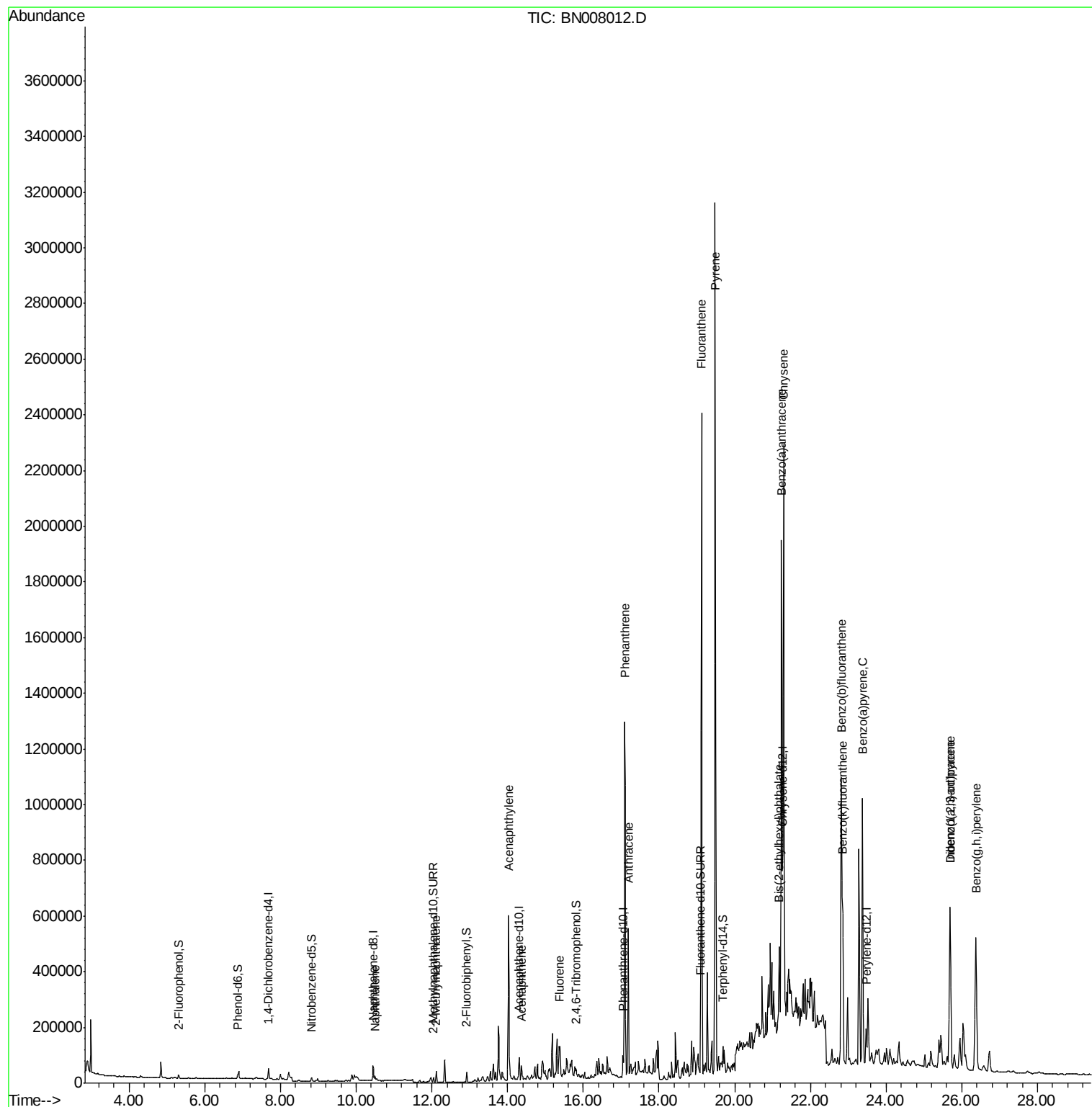
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
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#1

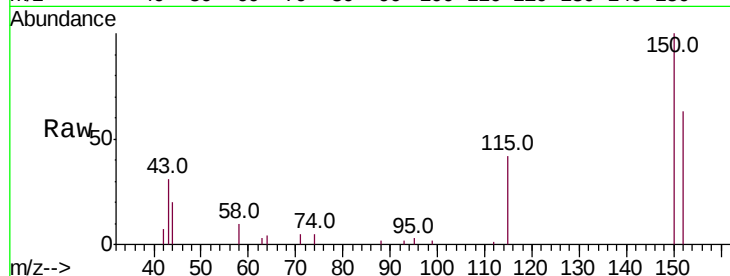
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.68 min Scan# 602
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	125.6	188.4
115	66.3	53.3	79.9

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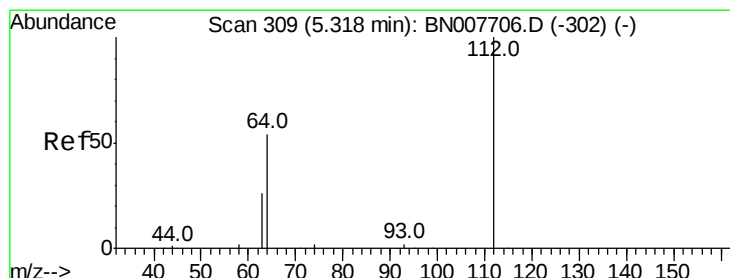
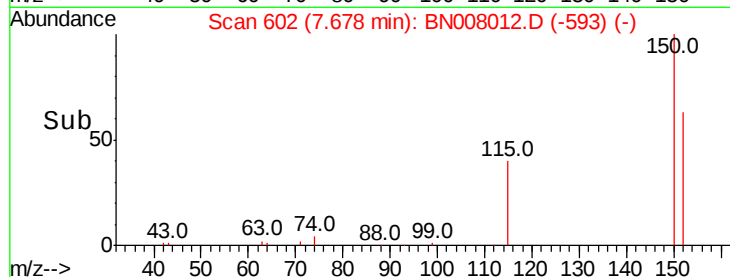
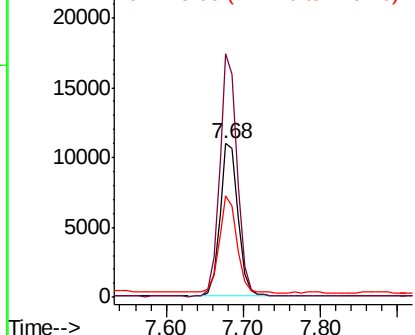


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

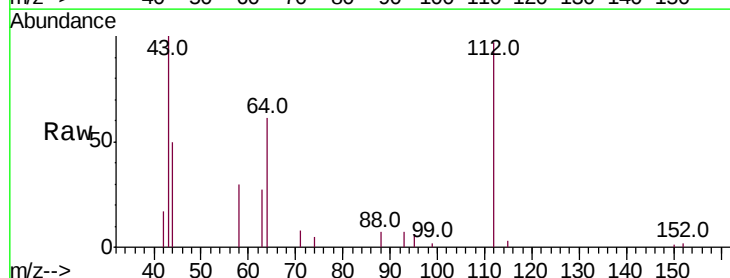
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.167 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	46.6	70.0
63	27.9	23.1	34.7

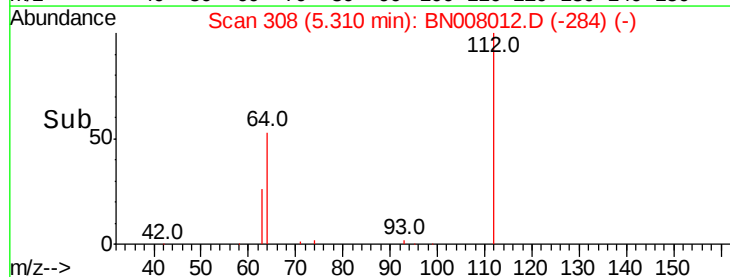
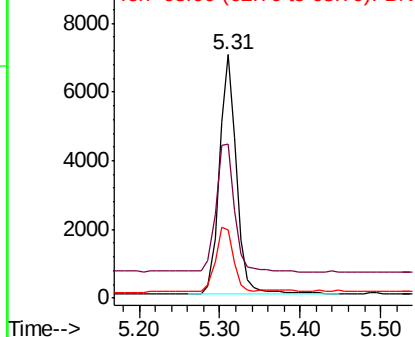


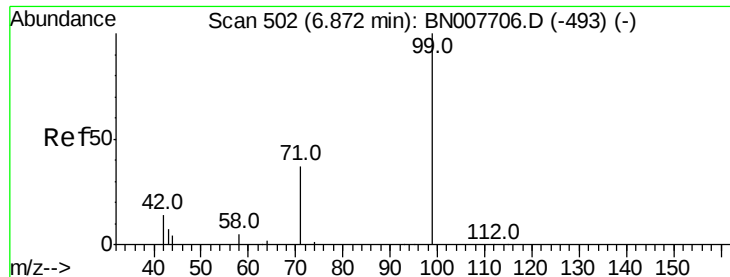
Abundance

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: 0.176 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Instrument :

BNA_N

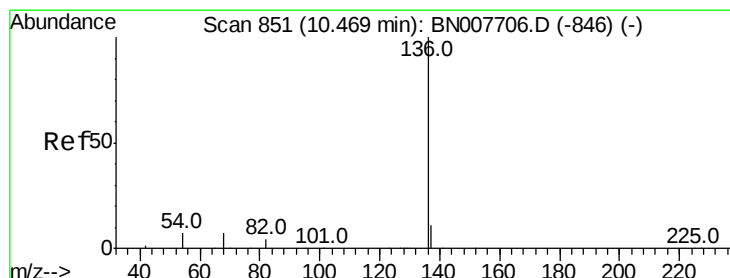
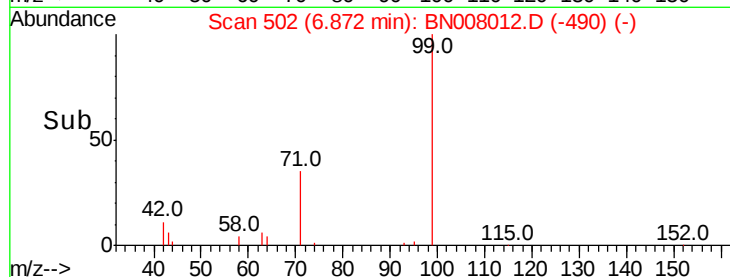
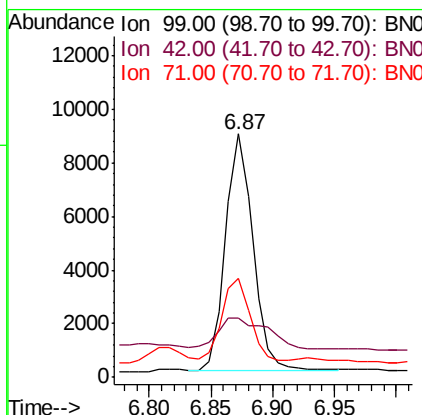
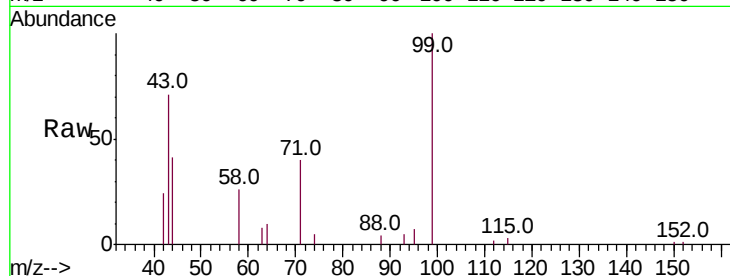
ClientSampleId :

EXT-024-SW069-092519

Tot Ion:	99	Resp:	13762
Ion Ratio	Lower	Upper	
99	100		
42	23.0	12.8	19.2#
71	37.6	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

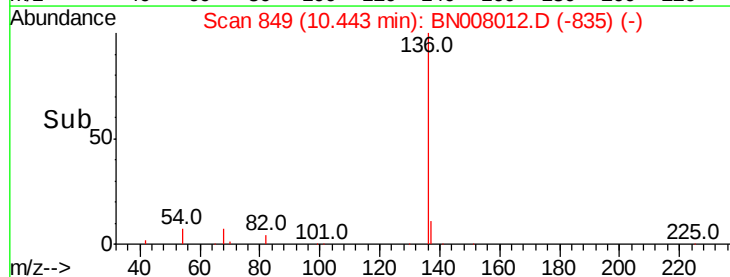
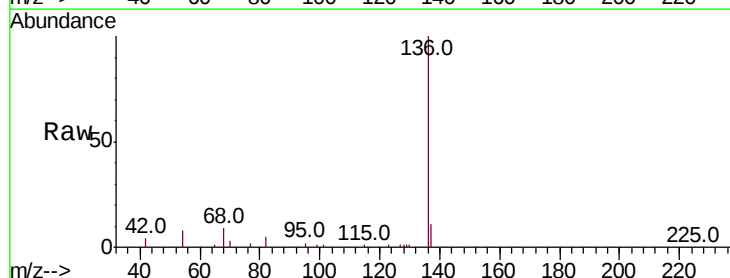
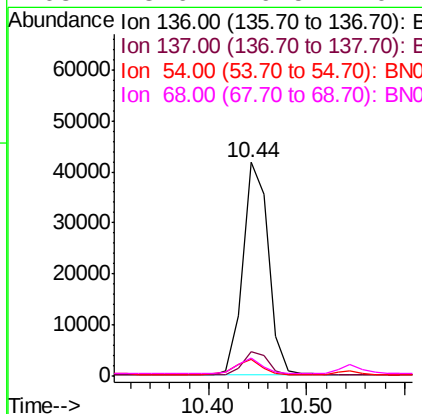
RT: 10.44 min Scan# 849

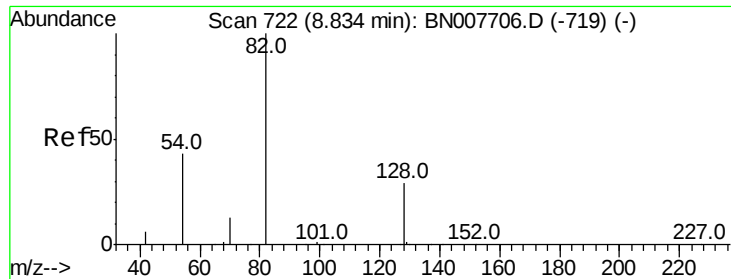
Delta R.T. -0.03 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Tgt Ion:	136	Resp:	75312
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	7.8	5.8	8.8
68	8.6	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.189 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Instrument :

BNA_N

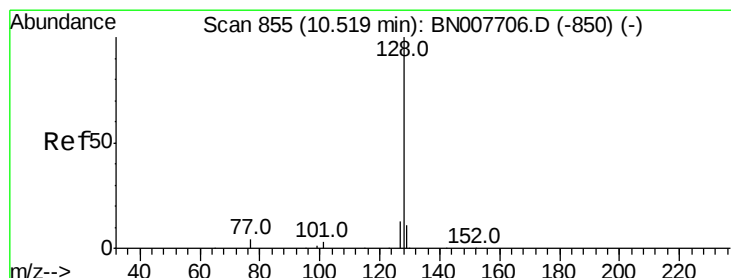
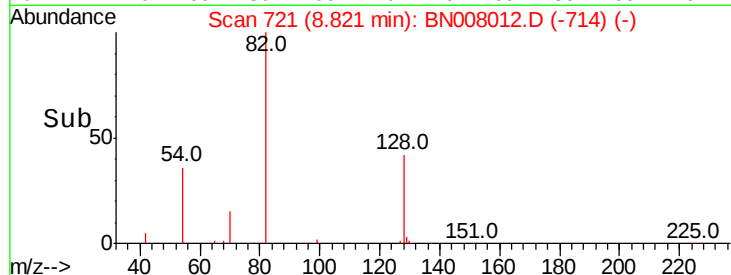
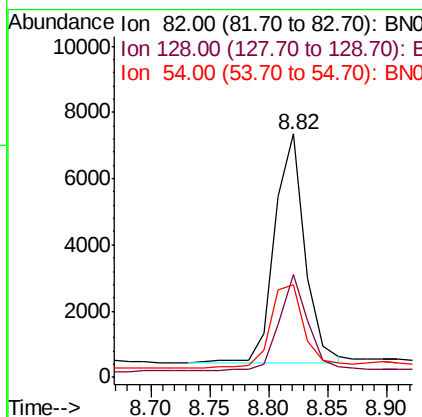
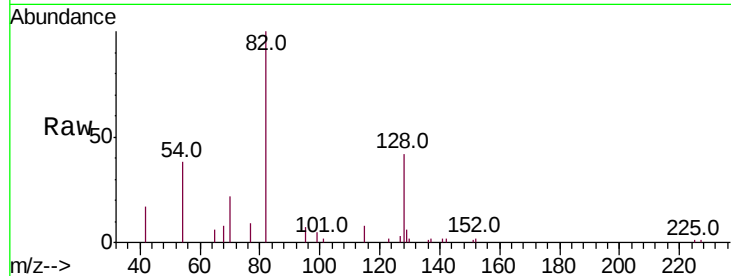
ClientSampleId :

EXT-024-SW069-092519

Tot Ion:	82	Resp:	12446
Ion Ratio	Lower	Upper	
82	100		
128	42.1	24.5	36.7#
54	37.8	35.2	52.8

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#9

Naphthalene

Concen: 0.102 ng

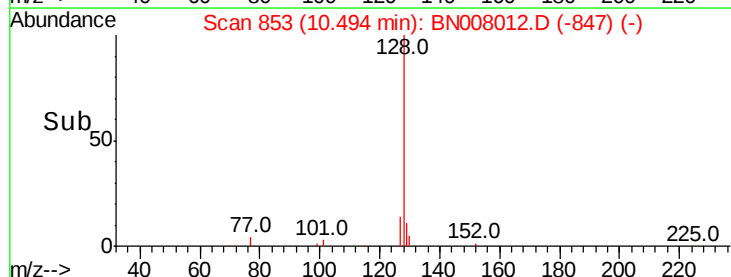
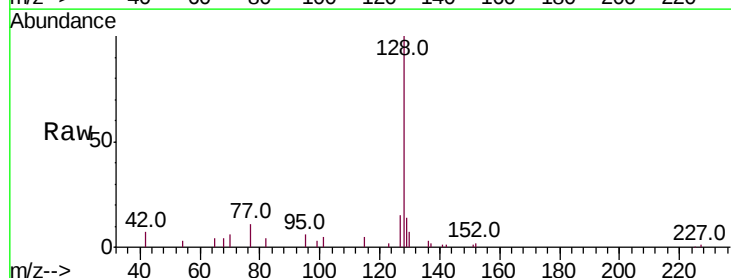
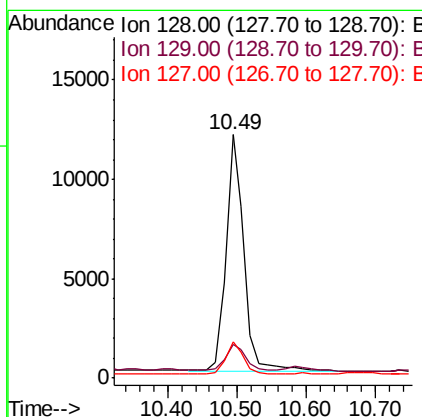
RT: 10.49 min Scan# 853

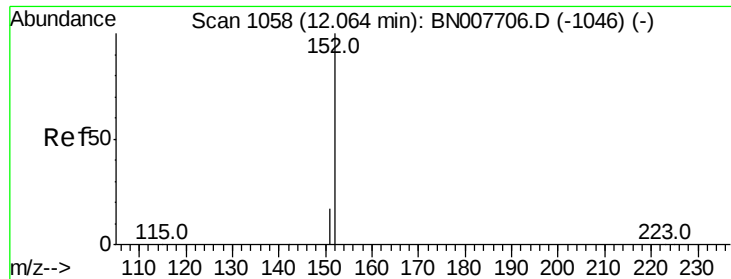
Delta R.T. -0.03 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Tgt Ion:	128	Resp:	21529
Ion Ratio	Lower	Upper	
128	100		
129	14.0	9.1	13.7#
127	14.9	10.6	15.8





#11

2-Methylnaphthalene-d10

Concen: 0.187 ng

RT: 12.04 min Scan# 1053

Delta R.T. -0.02 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW069-092519

Tot Ion:152 Resp: 23775

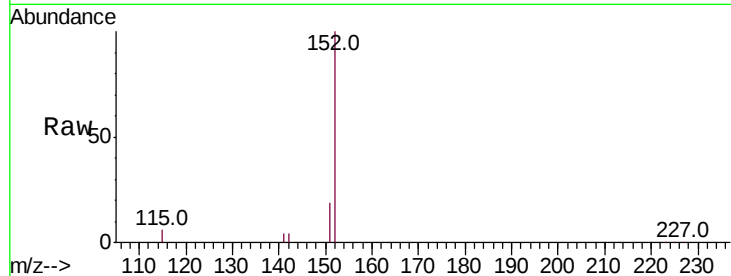
Ion Ratio Lower Upper

152 100

151 19.5 15.4 23.2

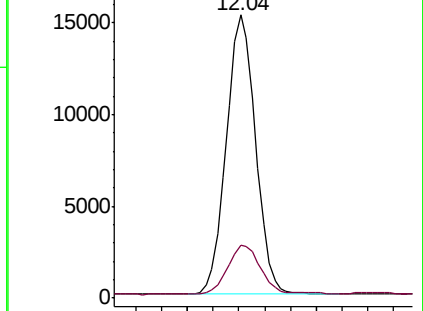
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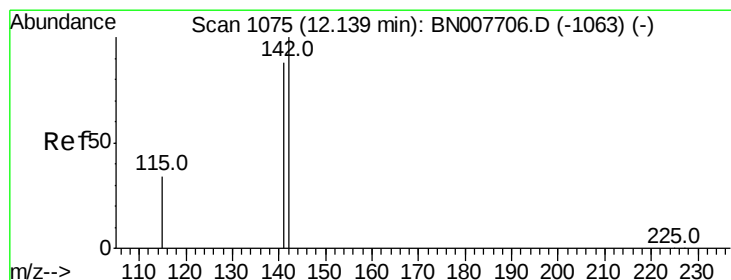
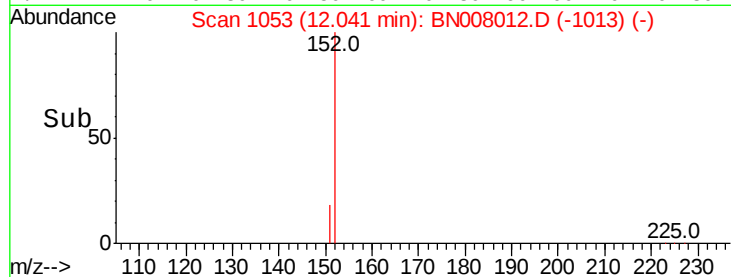


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

2-Methylnaphthalene

Concen: 0.210 ng

RT: 12.12 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

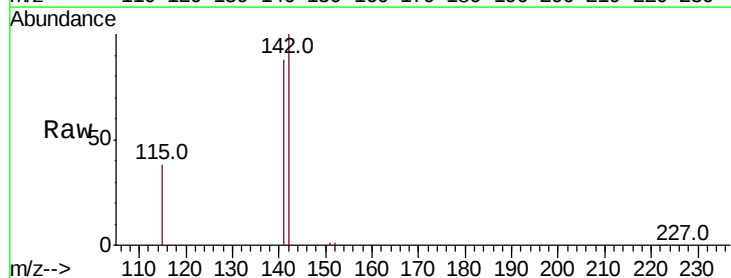
Tgt Ion:142 Resp: 30005

Ion Ratio Lower Upper

142 100

141 88.1 70.6 106.0

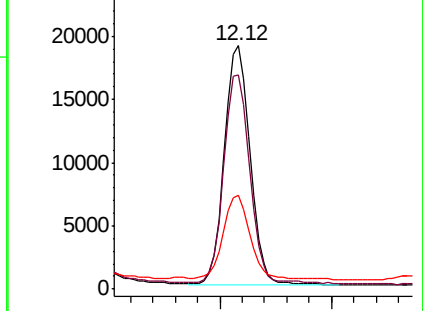
115 38.3 28.3 42.5



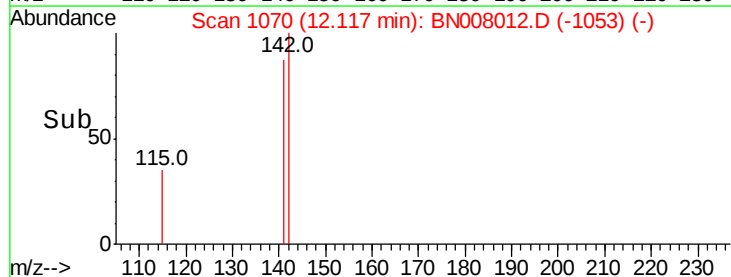
Abundance Ion 142.00 (141.70 to 142.70): E

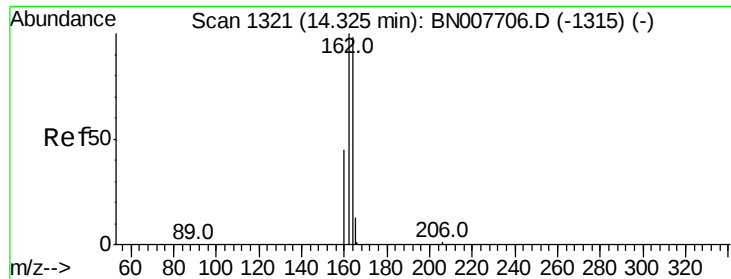
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->





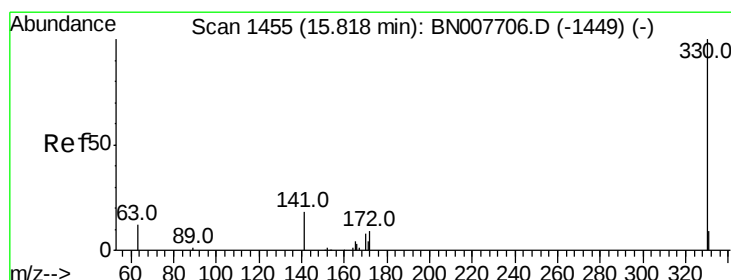
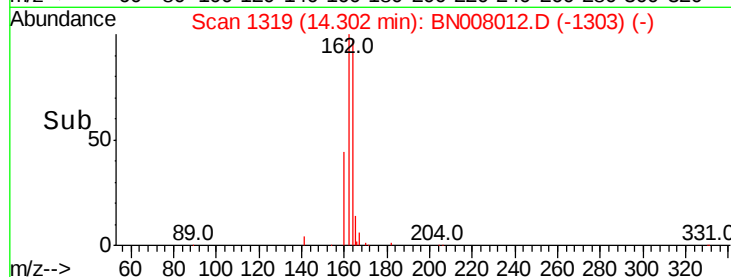
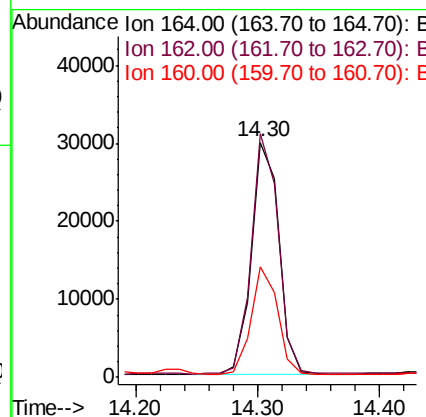
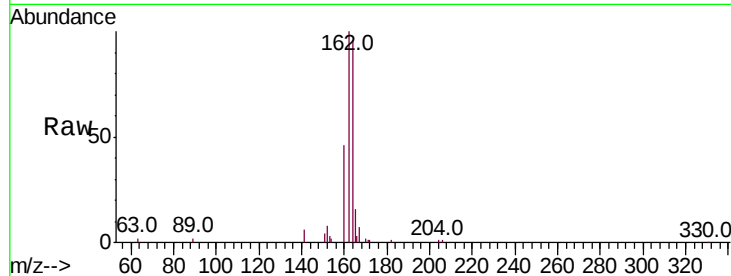
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.6	81.7	122.5
160	47.2	37.0	55.4

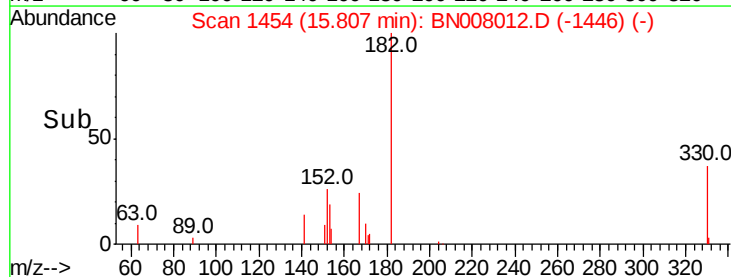
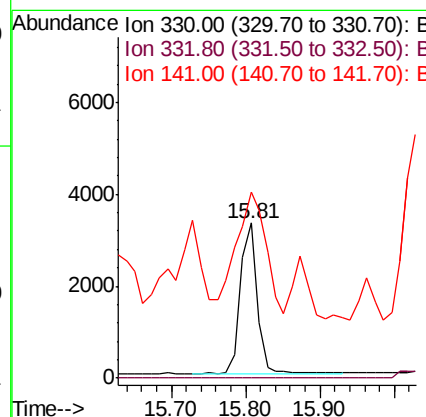
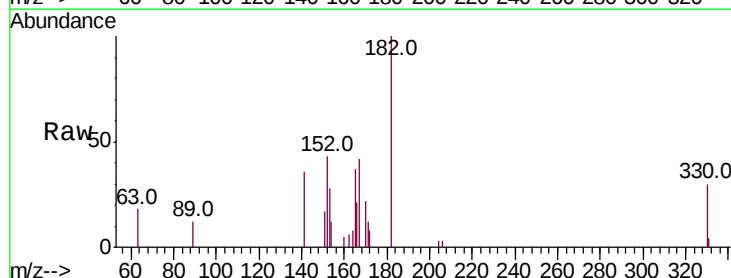
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#14
2,4,6-Tribromophenol
Concen: 0.199 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	143.2	28.7	43.1#





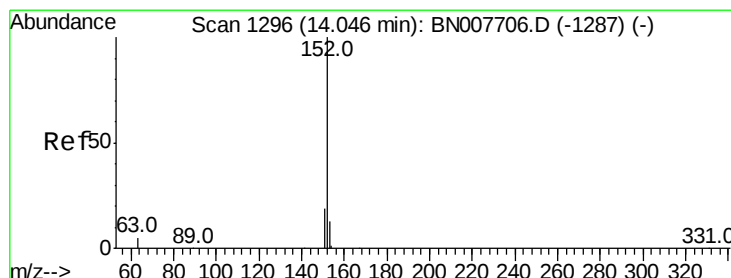
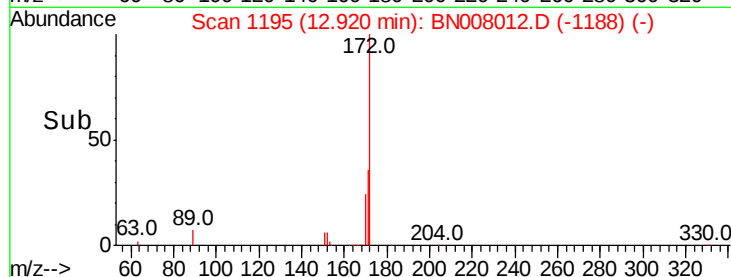
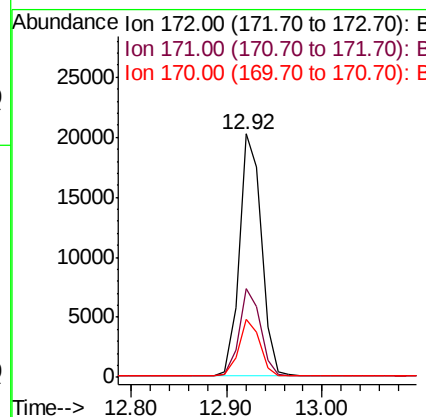
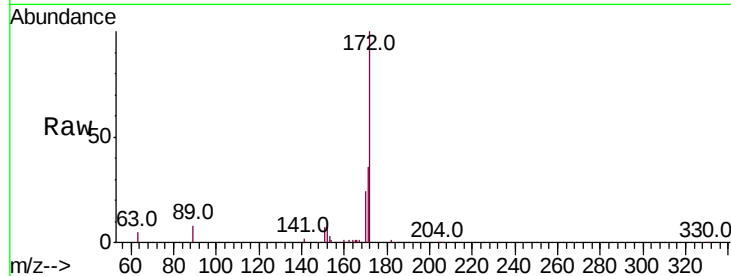
#15
2-Fluorobiphenyl
Concen: 0.165 ng
RT: 12.92 min Scan# 1195
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.8	43.2
170	24.0	19.5	29.3

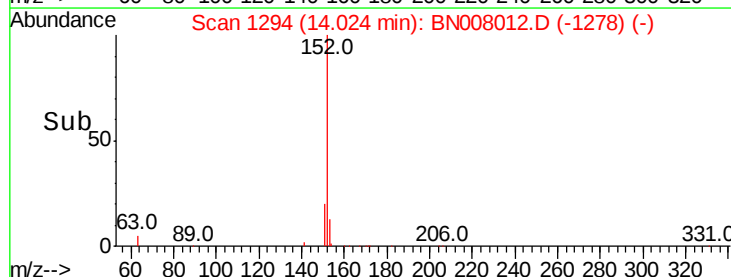
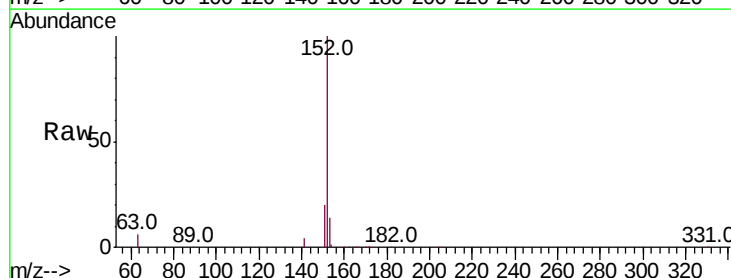
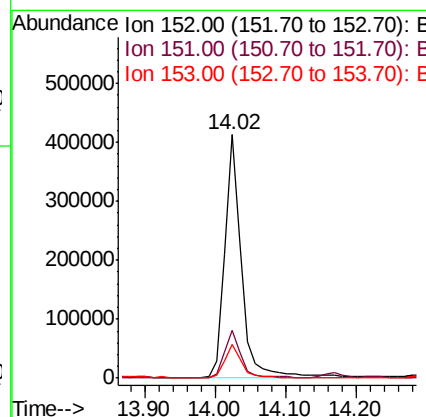
Manual Integrations
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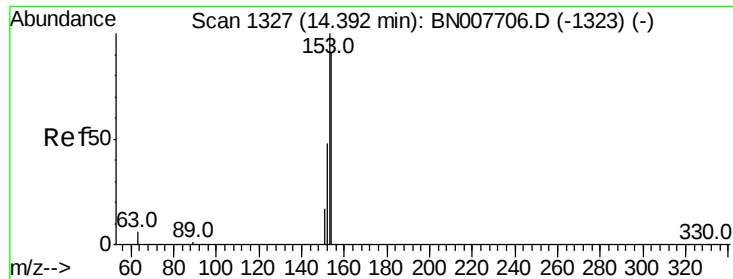
mohammad
10/7/2019 8:45:32 AM



#16
Acenaphthylene
Concen: 2.746 ng
RT: 14.02 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.5	23.3
153	13.5	10.4	15.6





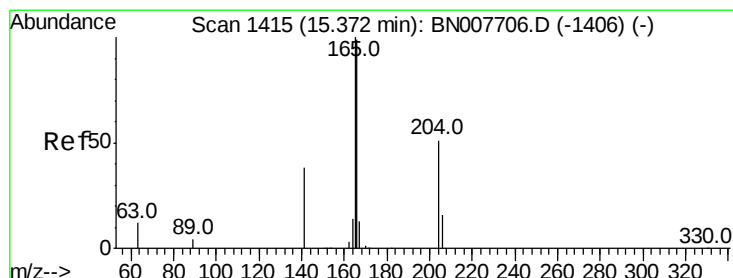
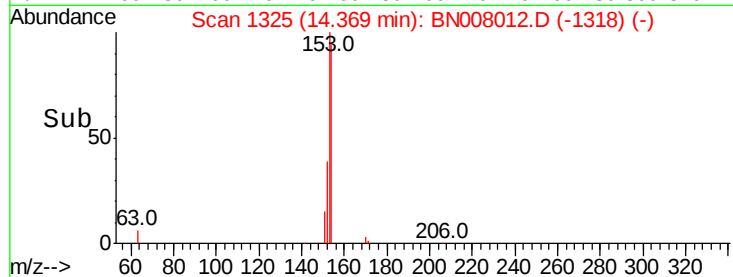
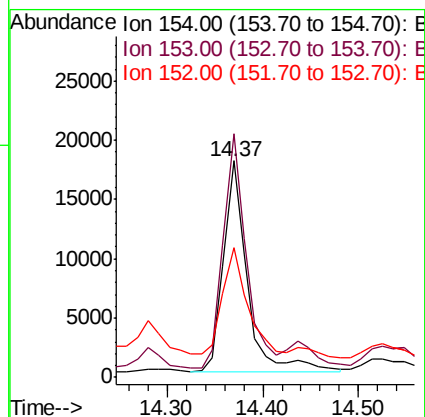
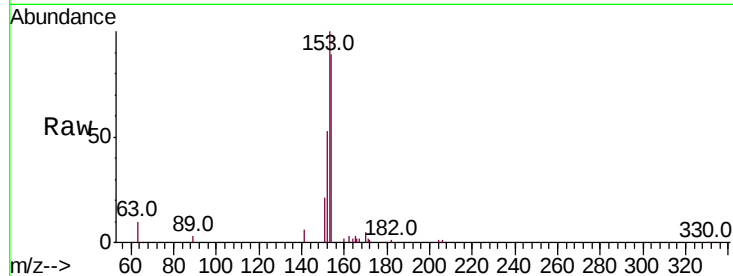
#17
Acenaphthene
Concen: 0.189 ng
RT: 14.37 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
154	100		
153	107.5	87.0	130.4
152	53.5	42.7	64.1

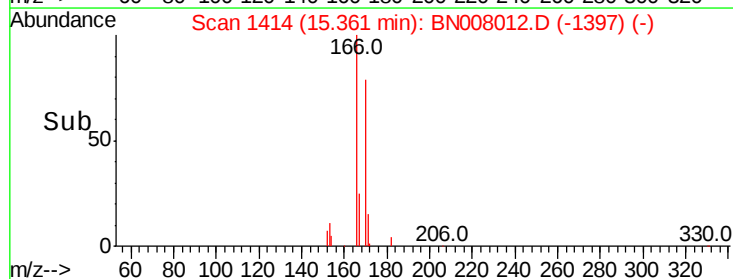
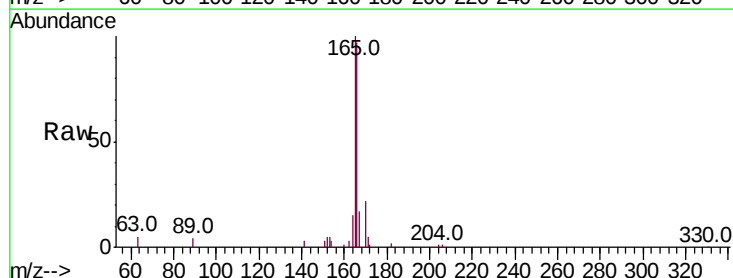
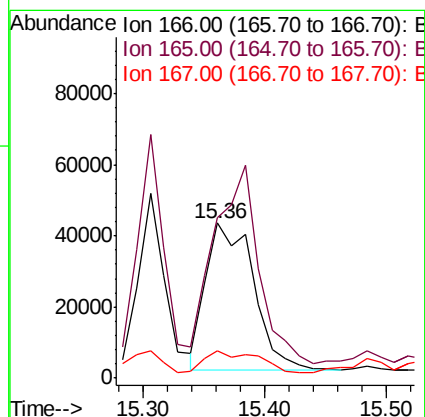
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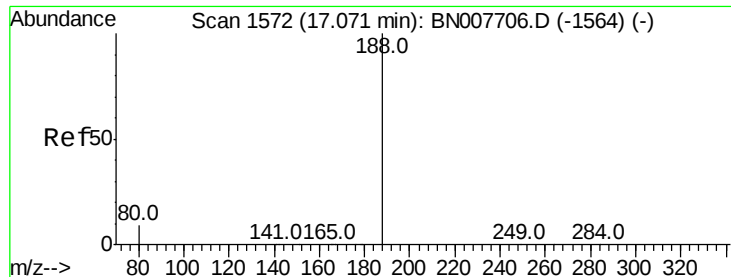
mohammad
10/7/2019 8:45:32 AM



#18
Fluorene
Concen: 0.539 ng
RT: 15.36 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	78.0	117.0#
167	16.9	10.9	16.3#





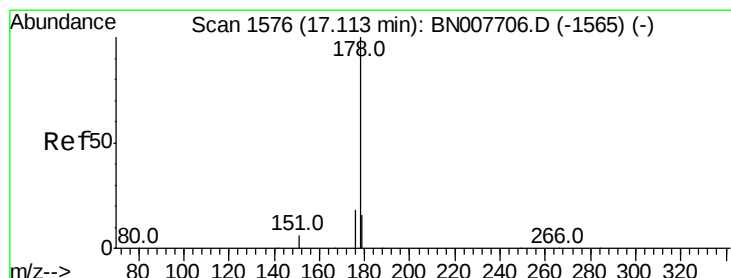
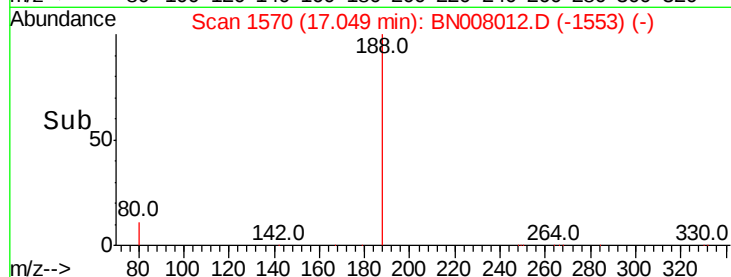
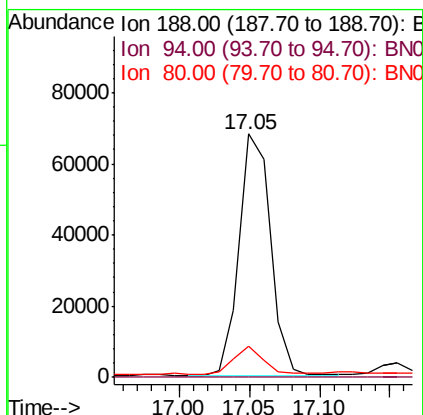
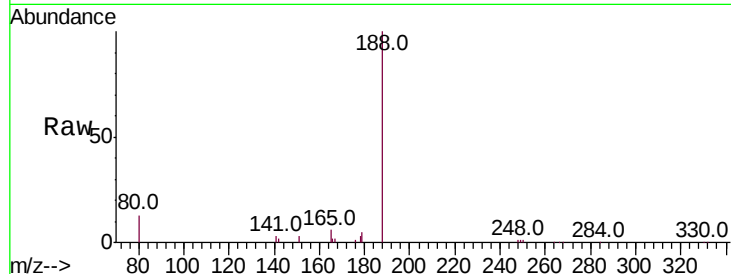
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	7.4	11.2

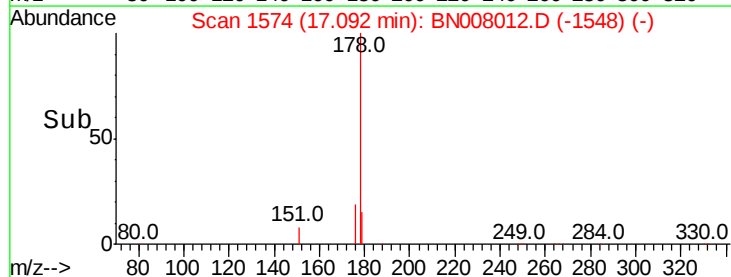
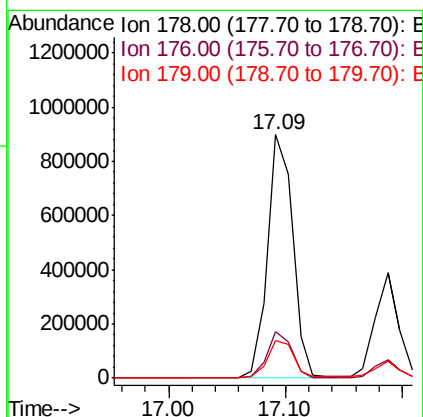
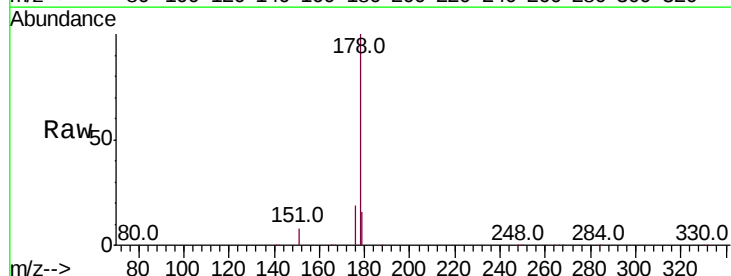
Manual Integrations
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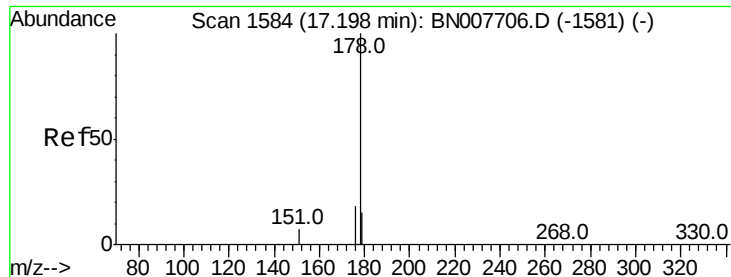
mohammad
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#23
Phenanthrene
Concen: 4.113 ng
RT: 17.09 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.5	14.9	22.3
179	16.0	12.5	18.7





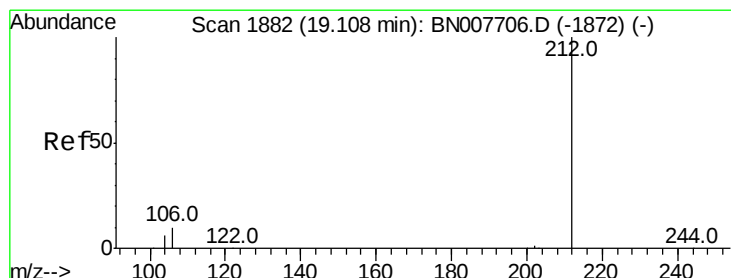
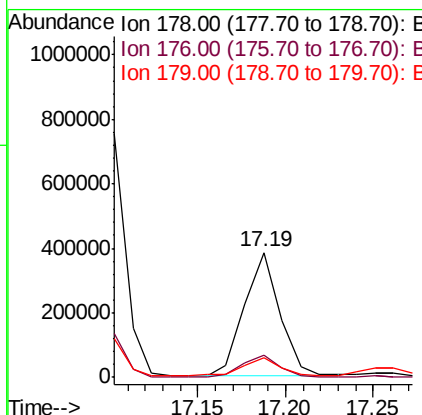
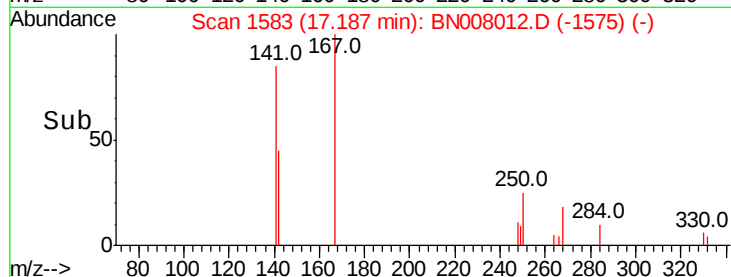
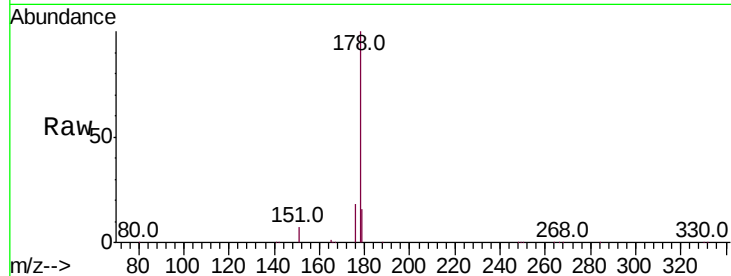
#24
 Anthracene
 Concen: 1.824 ng
 RT: 17.19 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BN008012.D
 Acq: 04 Oct 2019 20:22

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	21.8
179	15.3	12.2	18.4

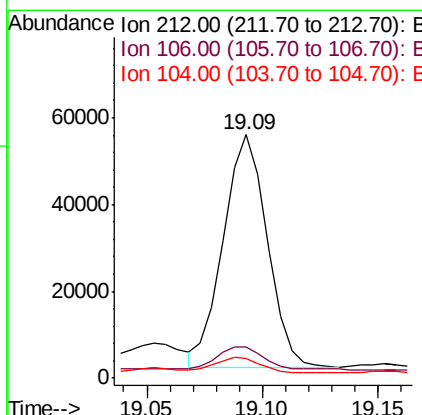
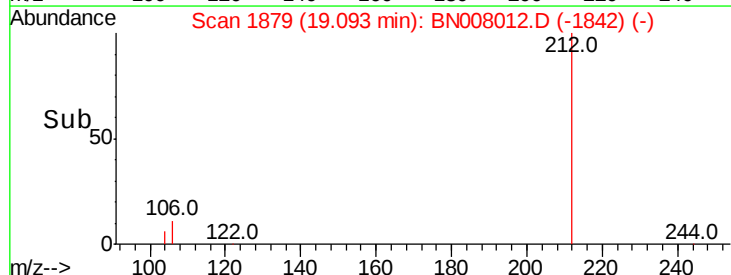
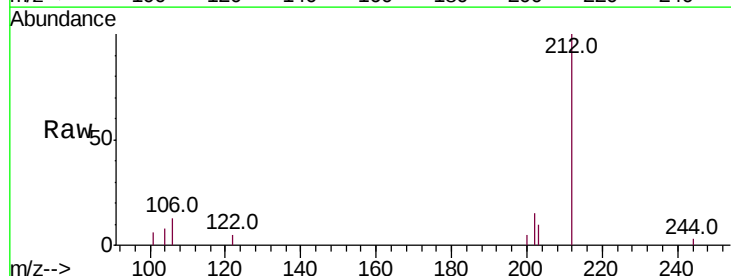
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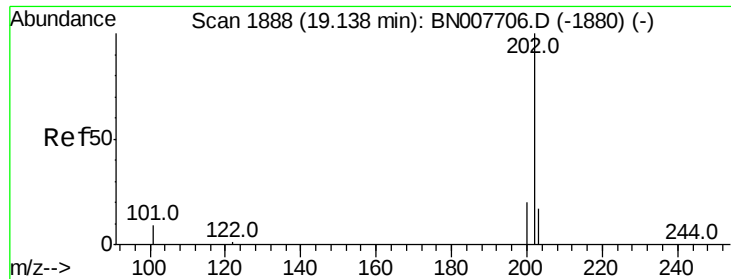
mohammad
 10/7/2019 8:45:32 AM



#25
 Fluoranthene-d10
 Concen: 0.198 ng
 RT: 19.09 min Scan# 1879
 Delta R.T. -0.02 min
 Lab File: BN008012.D
 Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.4	14.0
104	7.2	5.3	7.9





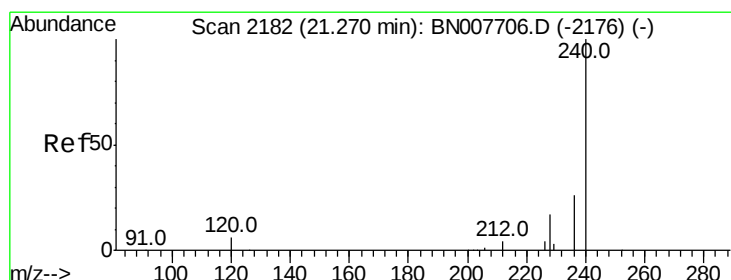
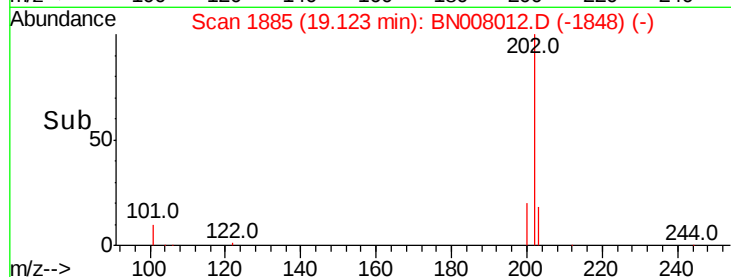
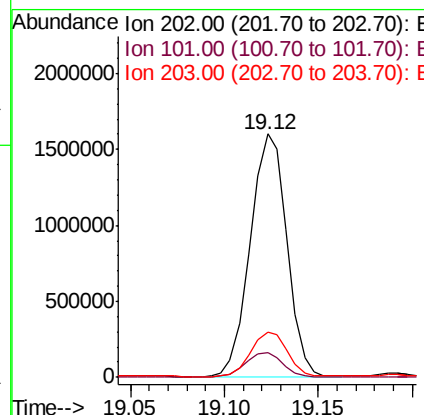
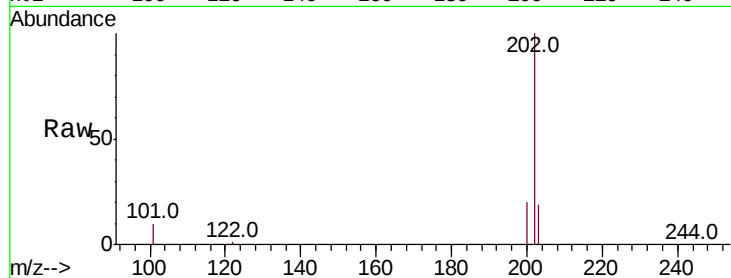
#26
 Fluoranthene
 Concen: 5.305 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.02 min
 Lab File: BN008012.D
 Acq: 04 Oct 2019 20:22

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.1	8.4	12.6
203	18.4	13.8	20.8

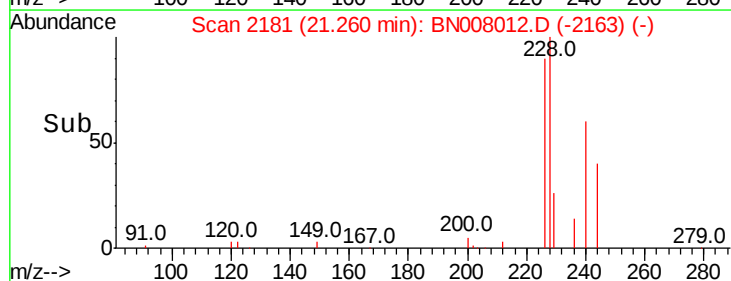
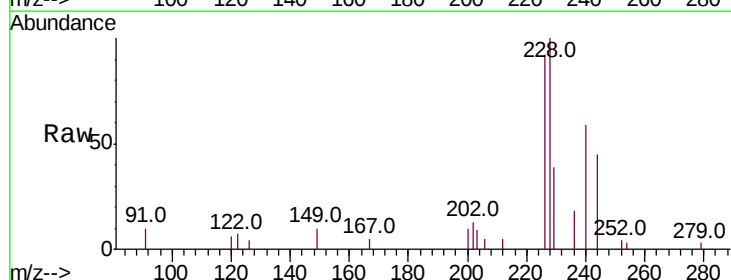
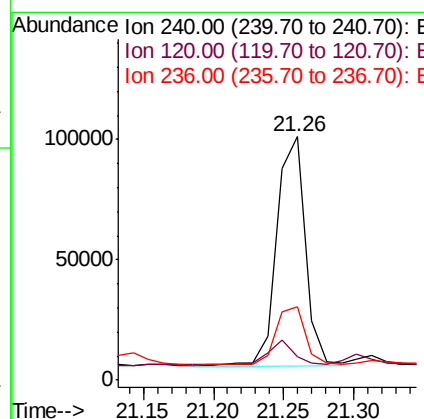
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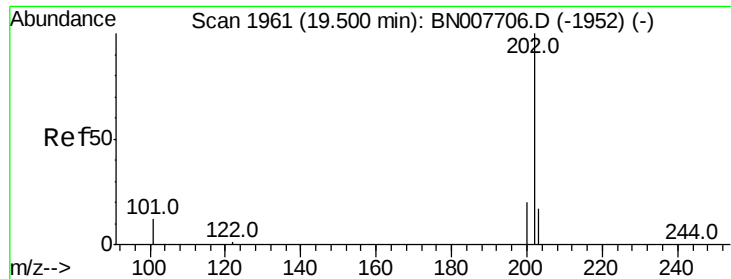
mohammad
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: BN008012.D
 Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.7	5.4	8.2#
236	30.1	21.0	31.4





#28

Pvrene

Concen: 6.406 ng

RT: 19.49 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW069-092519

Tot Ion:202 Resp: 3012576

Ion Ratio Lower Upper

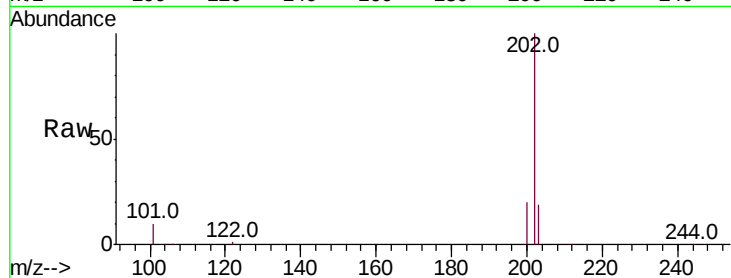
202 100

200 20.5 16.4 24.6

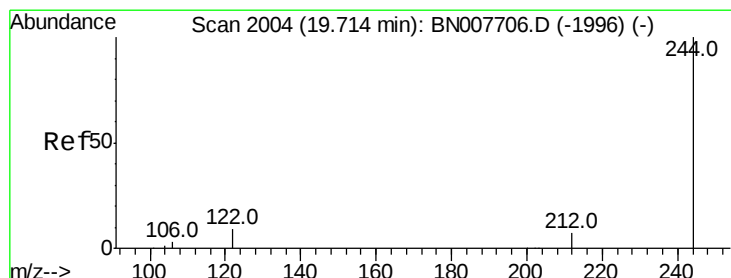
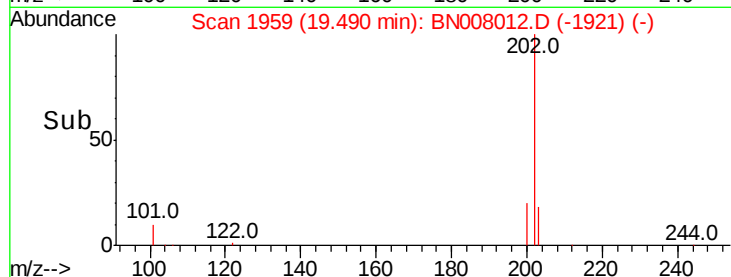
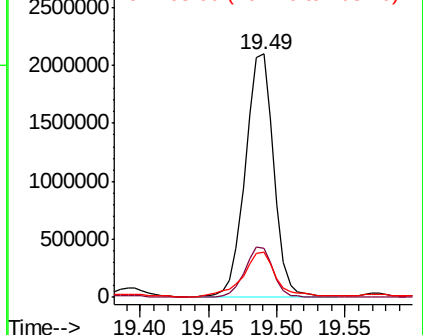
203 21.0 14.1 21.1

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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: 0.183 ng

RT: 19.69 min Scan# 2000

Delta R.T. -0.02 min

Lab File: BN008012.D

Acq: 04 Oct 2019 20:22

Tgt Ion:244 Resp: 61877

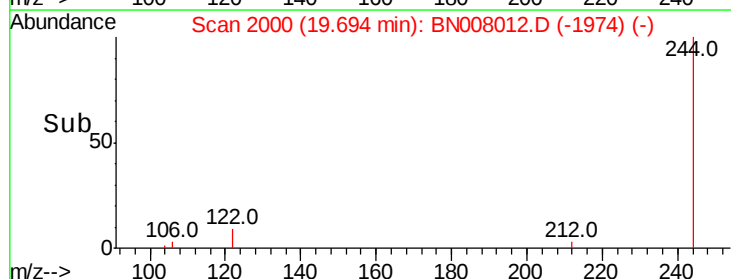
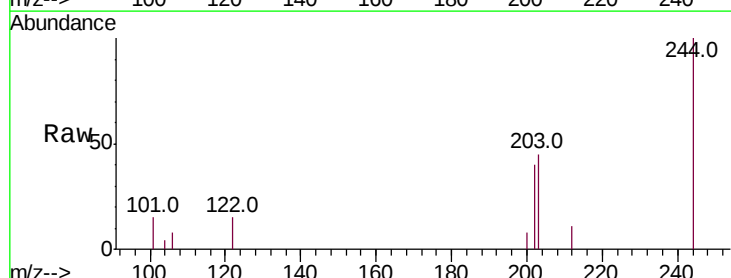
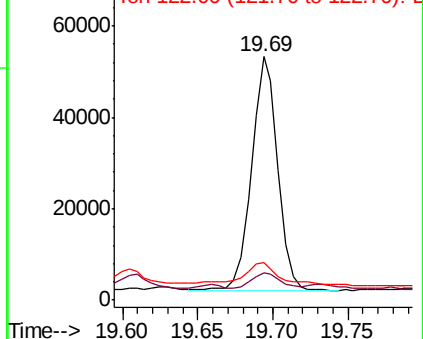
Ion Ratio Lower Upper

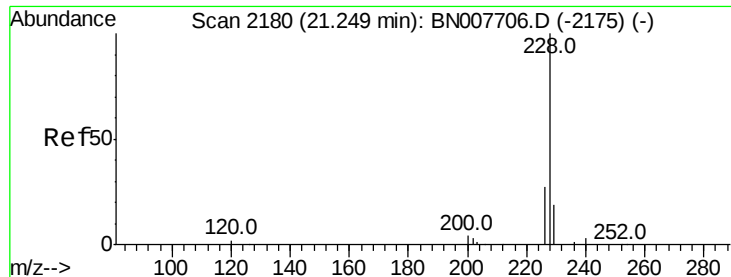
244 100

212 11.4 5.9 8.9#

122 15.4 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





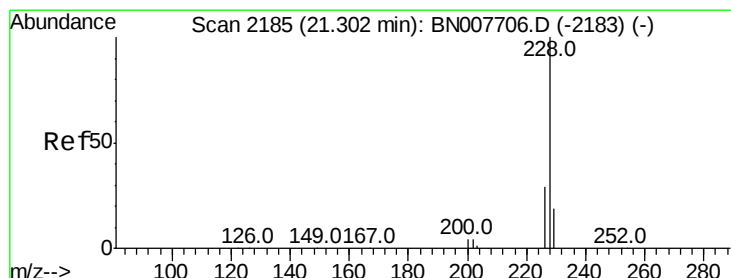
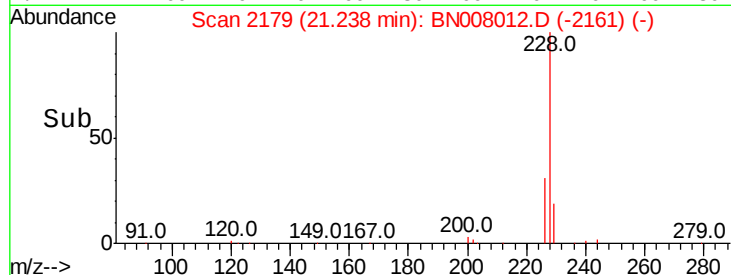
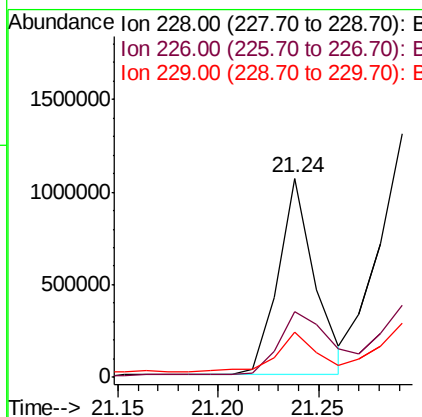
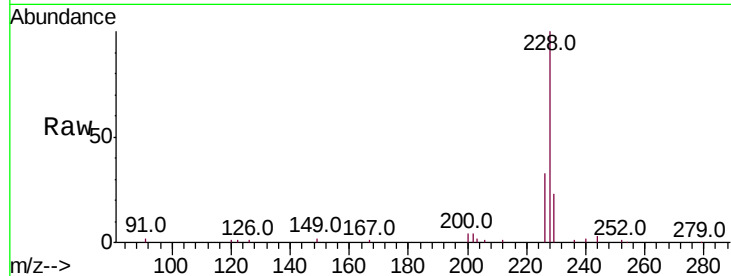
#30
Benzo(a)anthracene
Concen: 2.658 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion:228 Resp: 1350013
Ion Ratio Lower Upper
228 100
226 32.9 22.1 33.1
229 23.0 15.8 23.6

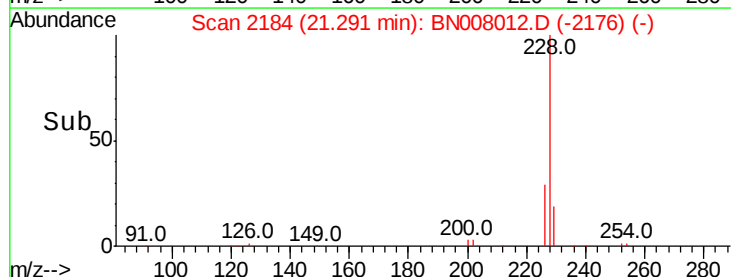
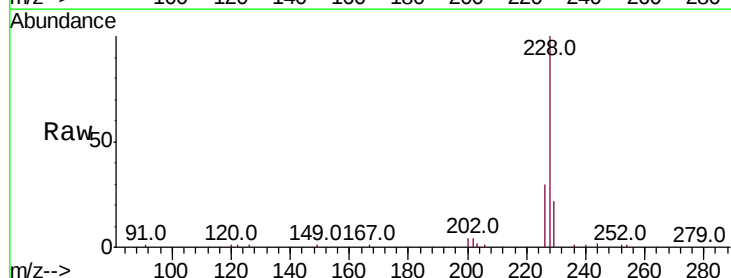
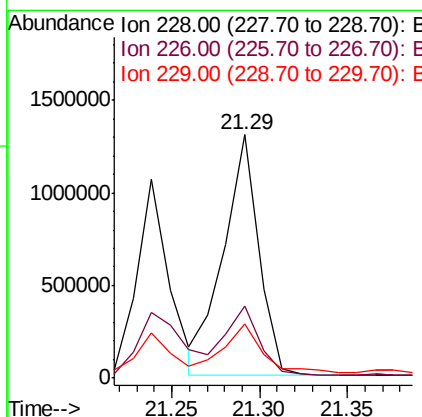
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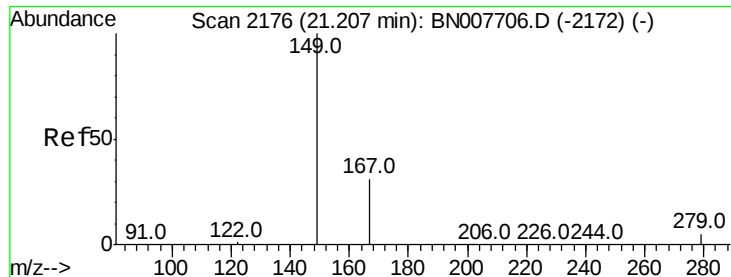
mohammad
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#31
Chrysene
Concen: 3.667 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion:228 Resp: 1814886
Ion Ratio Lower Upper
228 100
226 29.7 23.9 35.9
229 22.4 15.8 23.6





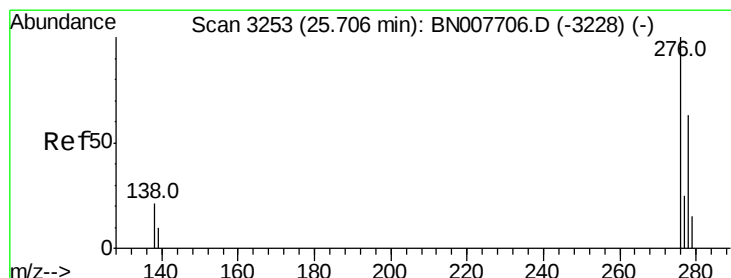
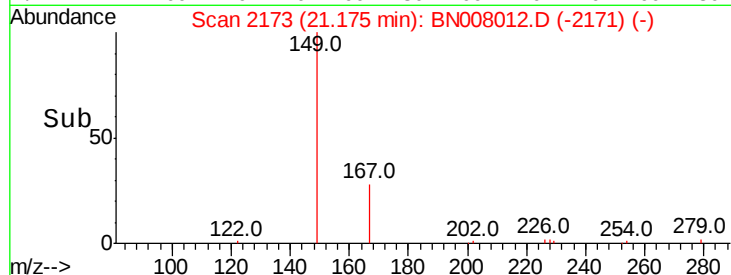
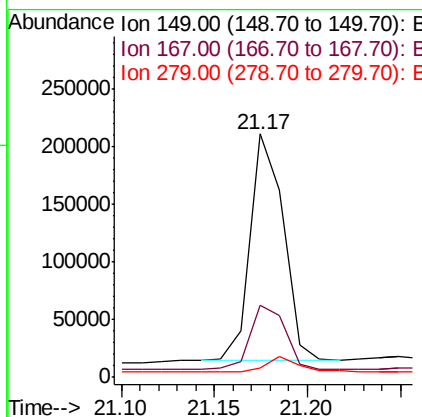
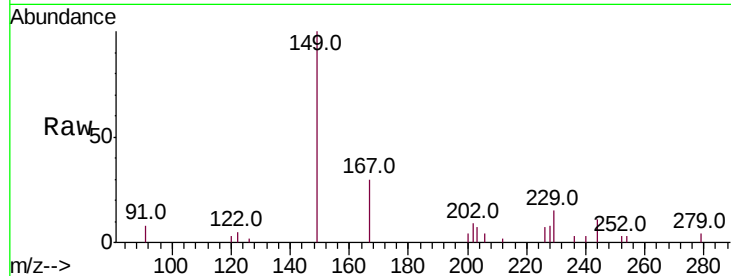
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.943 ng/ml
 RT: 21.17 min Scan# 2173
 Delta R.T. -0.03 min
 Lab File: BN008012.D
 Acq: 04 Oct 2019 20:22

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.9	23.7	35.5
279	5.7	4.2	6.2

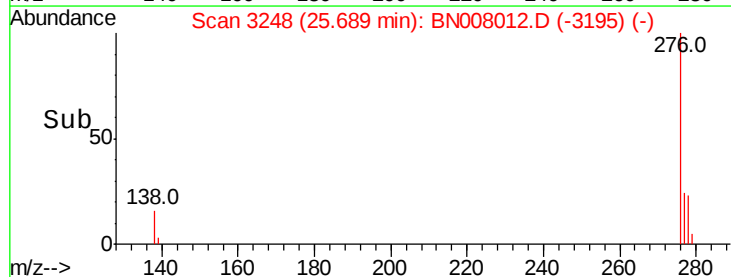
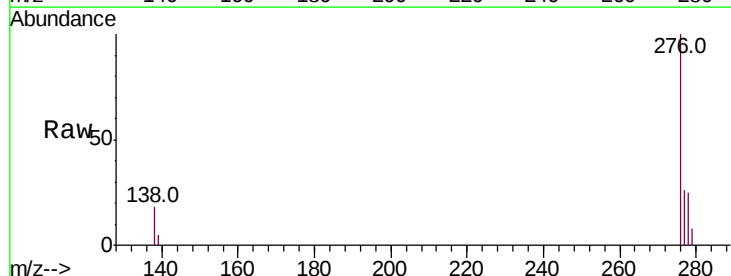
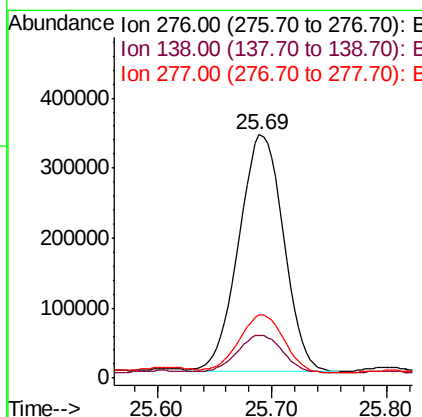
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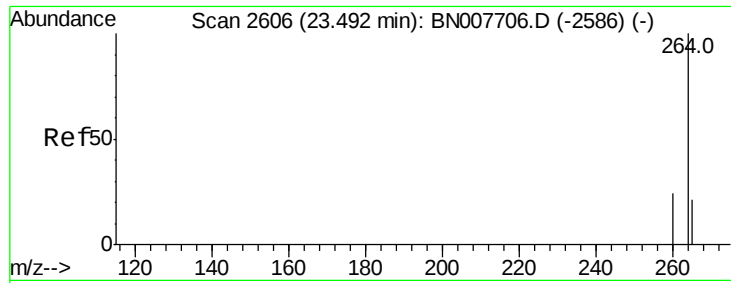
mohammad
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#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.482 ng
 RT: 25.69 min Scan# 3248
 Delta R.T. -0.02 min
 Lab File: BN008012.D
 Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.2	17.1	25.7#
277	24.8	20.0	30.0





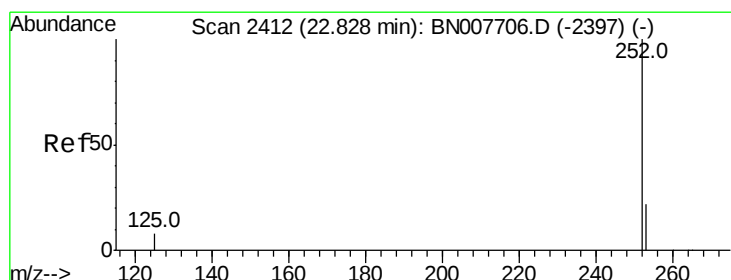
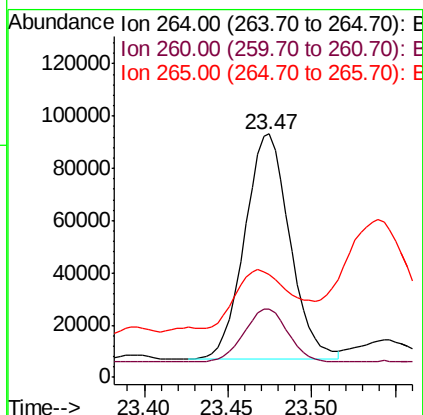
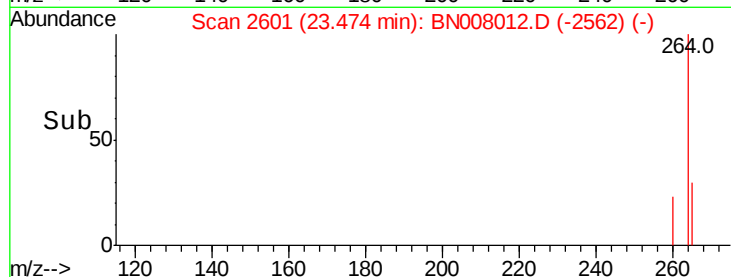
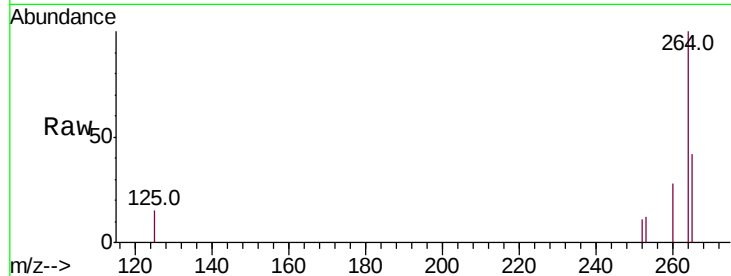
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2601
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.2	19.3	28.9
265	42.3	26.9	40.3

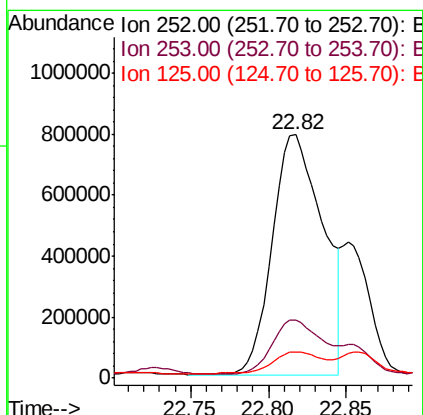
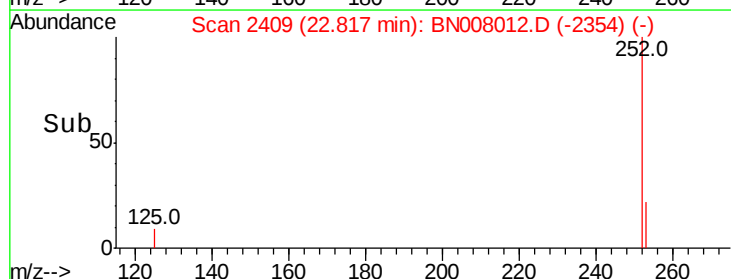
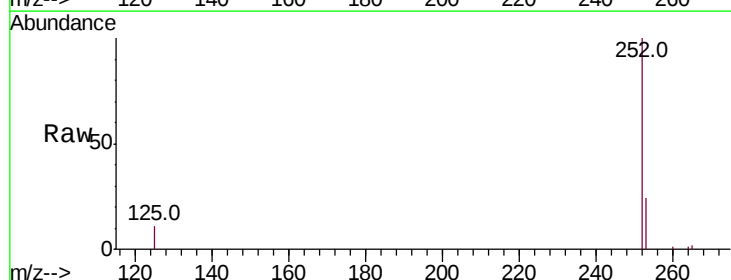
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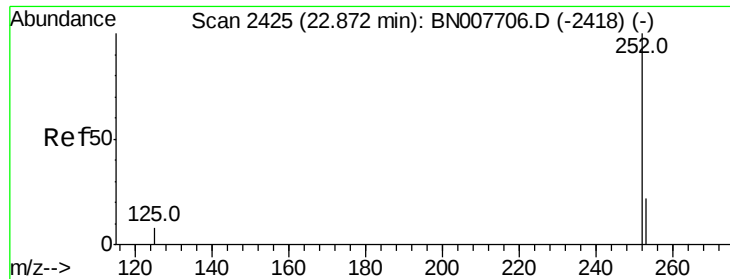
mohammad
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#35
Benzo(b)fluoranthene
Concen: 3.169 ng
RT: 22.82 min Scan# 2409
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.3	27.5
125	10.7	8.2	12.4





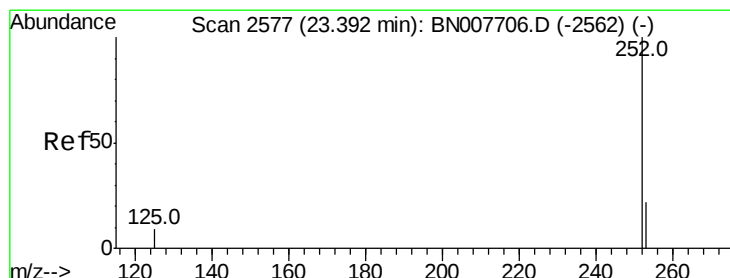
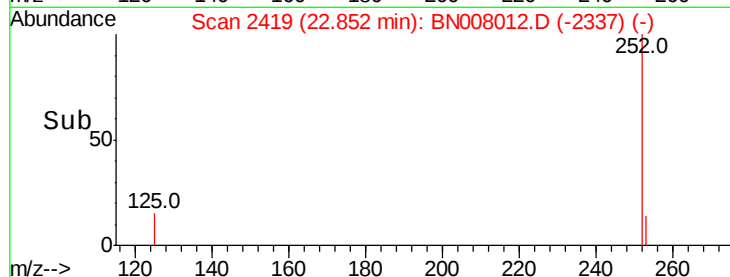
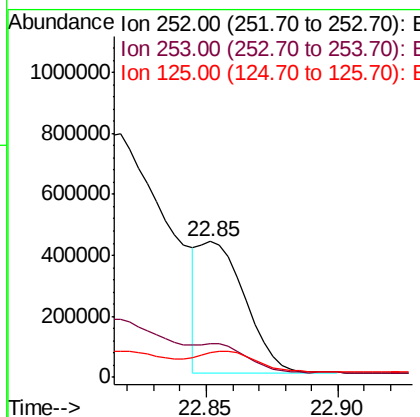
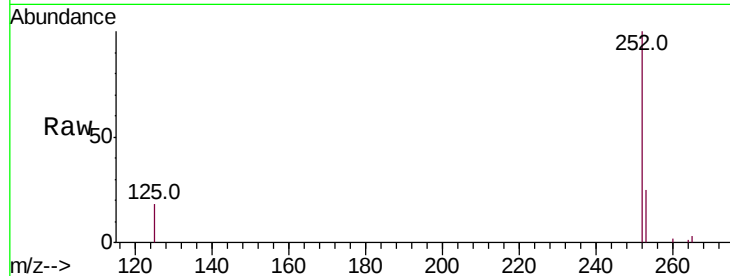
#36
Benzo(k)fluoranthene
Concen: 0.955 ng m
RT: 22.85 min Scan# 2419
Delta R.T. -0.02 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.5	27.7
125	18.2	8.4	12.6

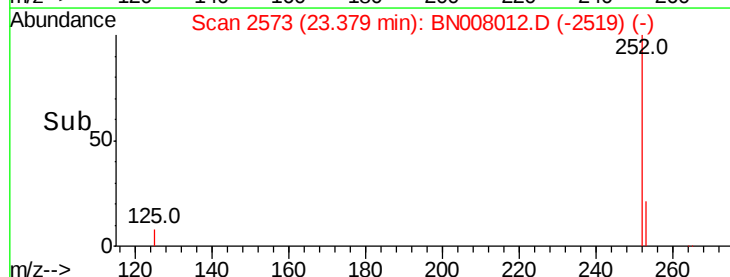
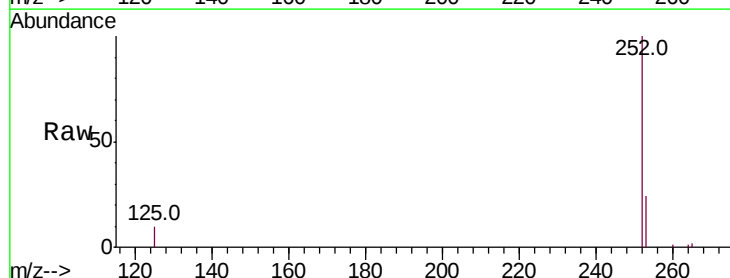
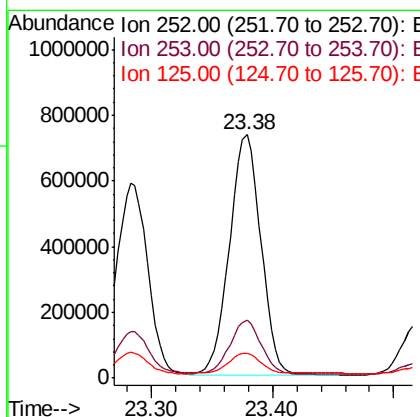
Manual Integrations
APPROVED

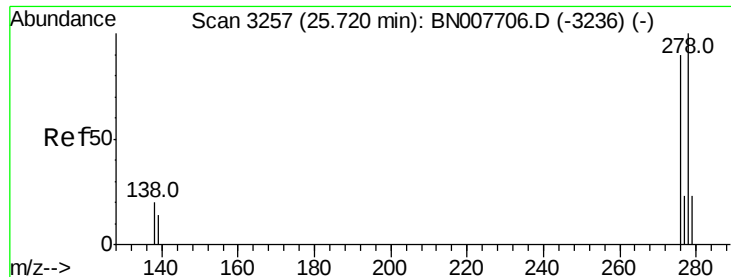
mohammad
10/7/2019 8:45:32 AM



#37
Benzo(a)pyrene
Concen: 2.483 ng
RT: 23.38 min Scan# 2573
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	27.8
125	10.4	9.4	14.0





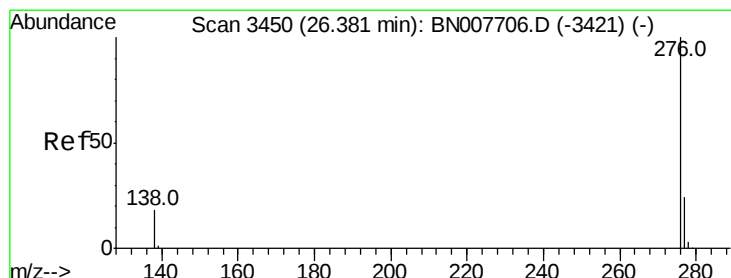
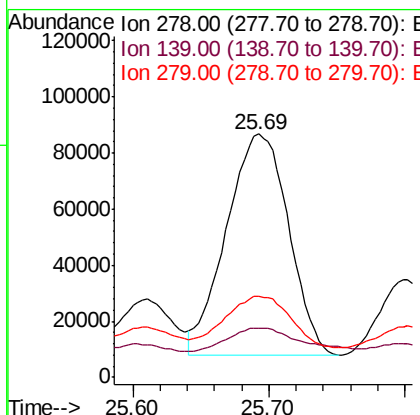
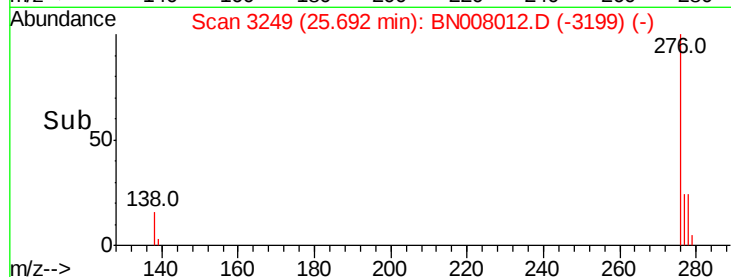
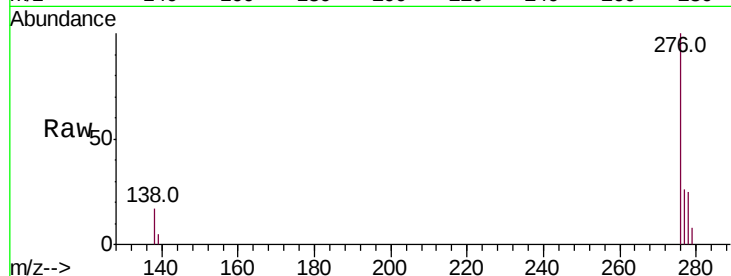
#38
Dibenzo(a,h)anthracene
Concen: 0.464 ng
RT: 25.69 min Scan# 3249
Delta R.T. -0.03 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW069-092519

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.2	11.8	17.6#
279	33.3	19.4	29.2#

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:32 AM



#39
Benzo(g,h,i)perylene
Concen: 1.866 ng
RT: 26.37 min Scan# 3447
Delta R.T. -0.01 min
Lab File: BN008012.D
Acq: 04 Oct 2019 20:22

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.8	29.8
138	17.8	15.1	22.7

