

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008014.D
 Acq On : 04 Oct 2019 21:34
 Operator : JU
 Sample : K5078-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW072-092619

Manual Integrations
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mohammad
 10/7/2019 8:45:38 AM

Quant Time: Oct 05 04:47:03 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	7.69	152	21978	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	88436	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	51001	0.40	ng	-0.02
19) Phenanthrene-d10	17.06	188	97817	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	124096	0.40	ng	0.00
34) Perylene-d12	23.47	264	149343	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.32	112	15995	0.21	ng	0.00
5) Phenol-d6	6.88	99	21697	0.23	ng	0.00
8) Nitrobenzene-d5	8.82	82	18669	0.24	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	35946	0.24	ng	-0.02
14) 2,4,6-Tribromophenol	15.80	330	6428	0.23	ng	-0.02
15) 2-Fluorobiphenyl	12.93	172	47982	0.23	ng	-0.02
25) Fluoranthene-d10	19.10	212	82849	0.25	ng	-0.01
29) Terphenyl-d14	19.70	244	70861	0.23	ng	-0.02

Target Compounds

						Qvalue
6) bis(2-Chloroethyl)ether	7.14	93	5451	0.088	ng	# 23
9) Naphthalene	10.49	128	23712	0.096	ng	95
12) 2-Methylnaphthalene	12.12	142	20568	0.123	ng	97
16) Acenaphthylene	14.03	152	215985	0.799	ng	99
17) Acenaphthene	14.37	154	110478	0.634	ng	97
18) Fluorene	15.36	166	154314	0.690	ng	97
22) Pentachlorophenol	16.72	266	791	0.033	ng	91
23) Phenanthrene	17.10	178	2634591	8.646	ng	100
24) Anthracene	17.18	178	458106	1.665	ng	97
26) Fluoranthene	19.12	202	4094255	10.806	ng	98
28) Pyrene	19.49	202	3602704	8.512	ng	# 95
30) Benzo(a)anthracene	21.24	228	1791042	3.919	ng	97
31) Chrysene	21.29	228	1890457	4.245	ng	97
32) Bis(2-ethylhexyl)phthalate	21.18	149	144213m	0.614	ng	
33) Indeno(1,2,3-cd)pyrene	25.69	276	1278132	2.292	ng	# 95
35) Benzo(b)fluoranthene	22.82	252	2462552	4.750	ng	99
36) Benzo(k)fluoranthene	22.85	252	1058875m	2.065	ng	
37) Benzo(a)pyrene	23.38	252	1679770	3.448	ng	99
38) Dibenzo(a,h)anthracene	25.70	278	304833	0.611	ng	# 93
39) Benzo(g,h,i)perylene	26.38	276	1256652	2.547	ng	98

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

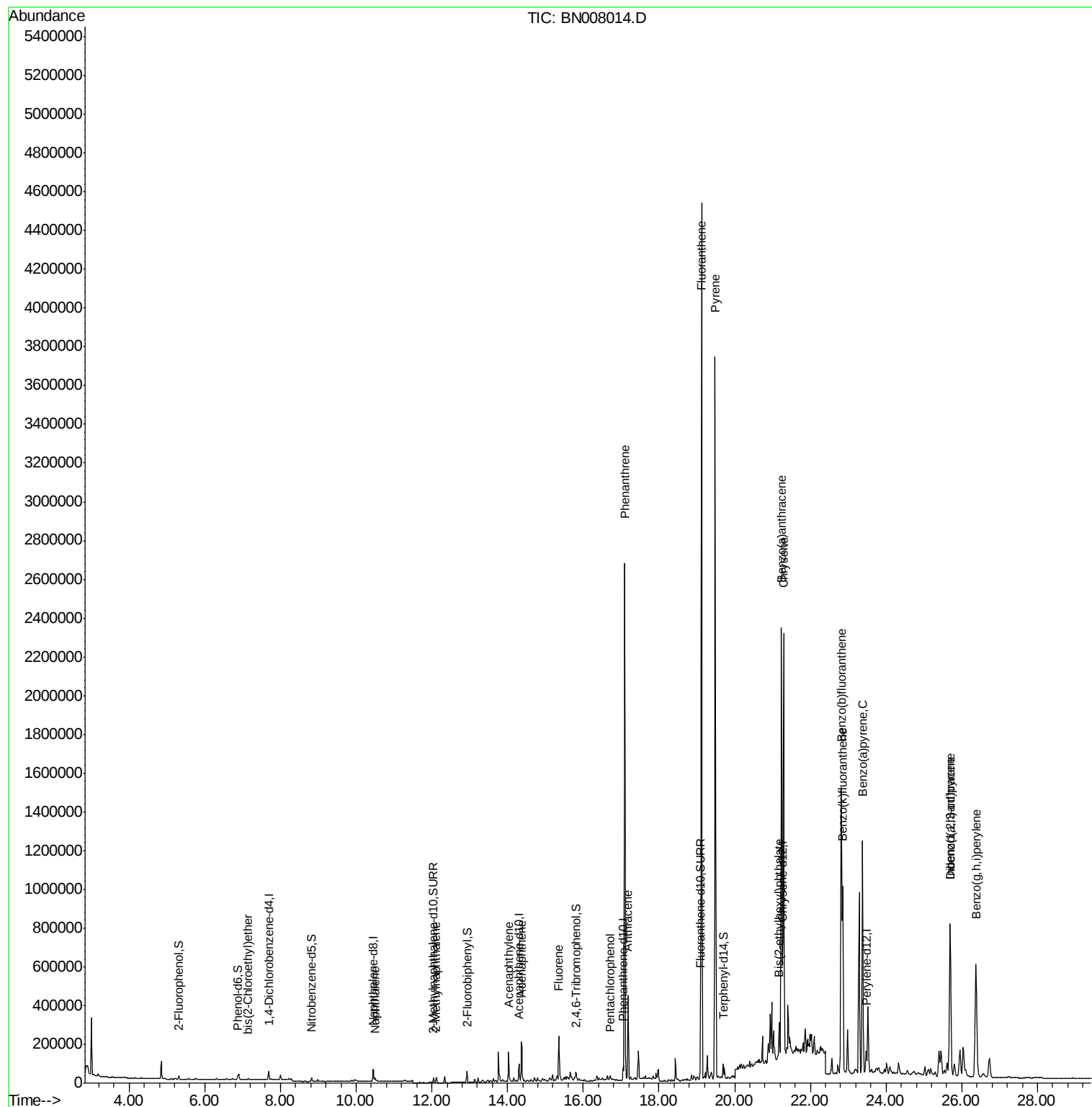
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.69 min Scan# 603

Delta R.T. -0.02 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW072-092619

Tot Ion:152 Resp: 21978

Ion Ratio Lower Upper

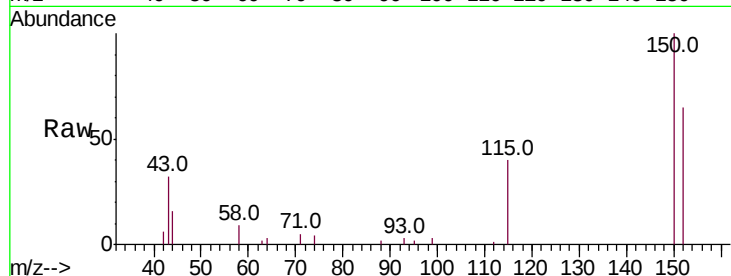
152 100

150 153.3 125.6 188.4

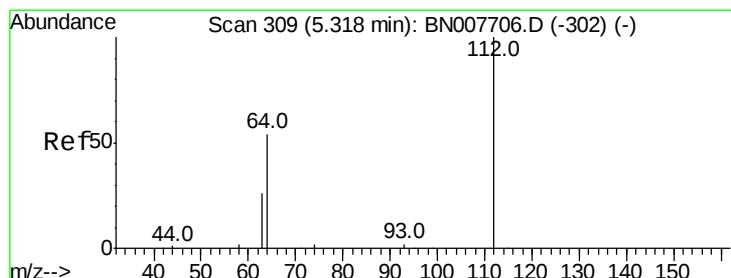
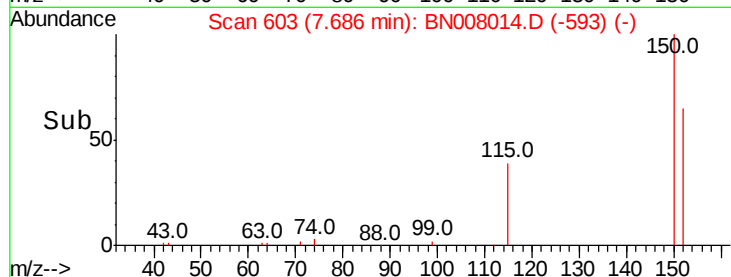
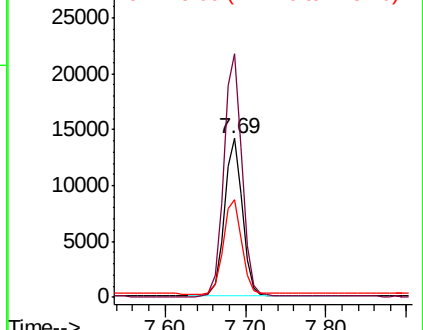
115 61.6 53.3 79.9

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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: 0.211 ng

RT: 5.32 min Scan# 309

Delta R.T. 0.00 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

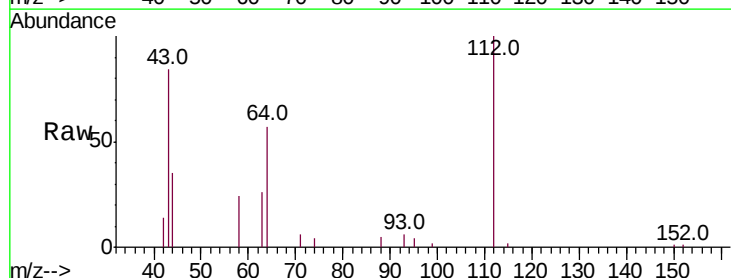
Tgt Ion:112 Resp: 15995

Ion Ratio Lower Upper

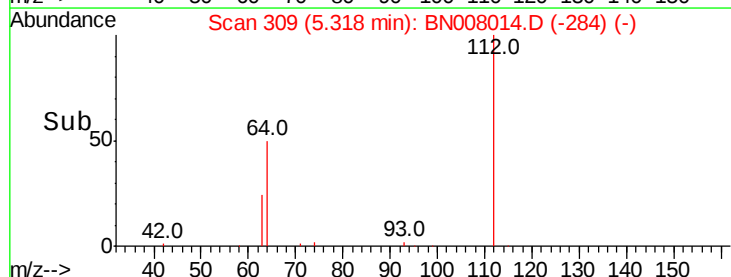
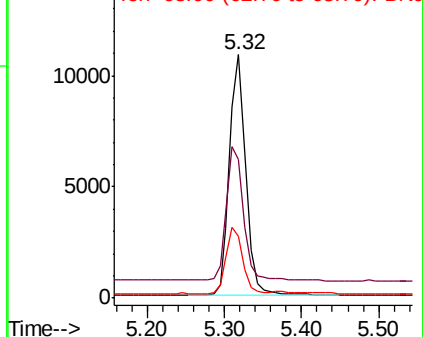
112 100

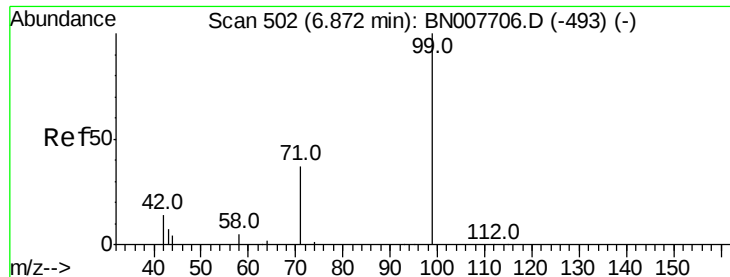
64 58.7 46.6 70.0

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: 0.227 ng

RT: 6.88 min Scan# 503

Delta R.T. 0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

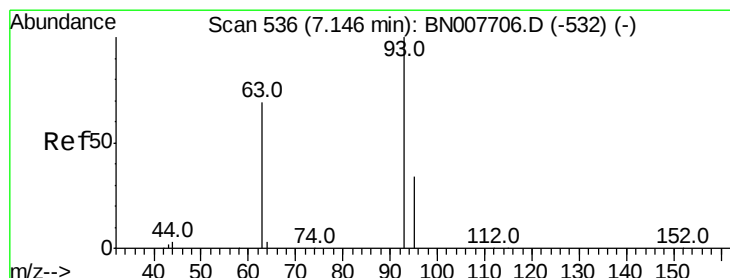
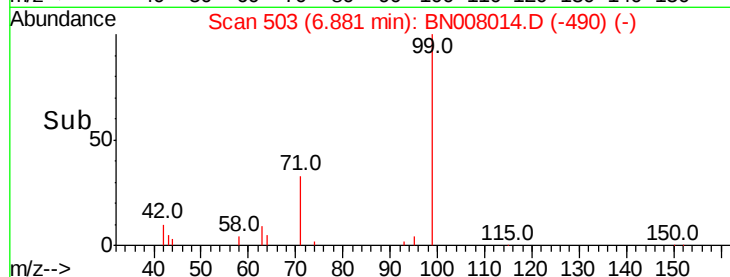
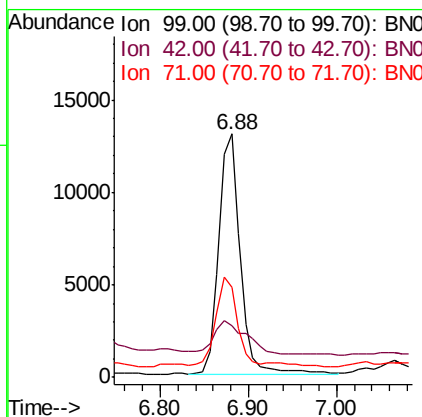
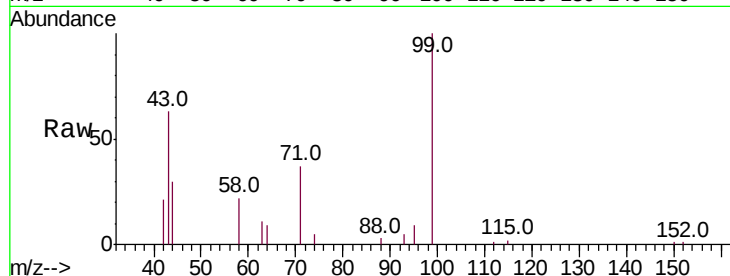
ClientSampleId :

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Tot Ion:	99	Resp:	21697
Ion Ratio	Lower	Upper	
99	100		
42	23.1	12.8	19.2#
71	35.1	27.6	41.4

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#6

bis(2-Chloroethyl)ether

Concen: 0.088 ng

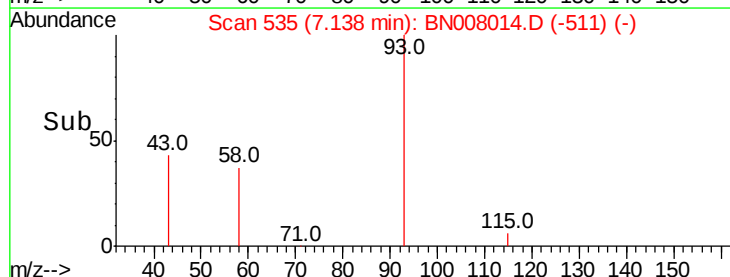
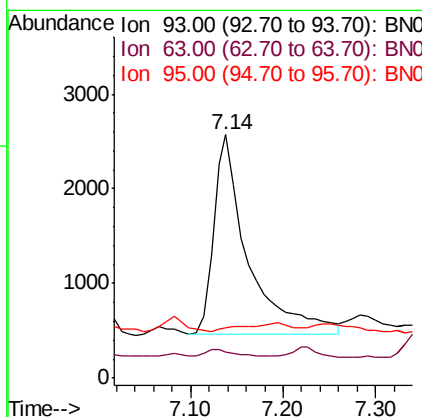
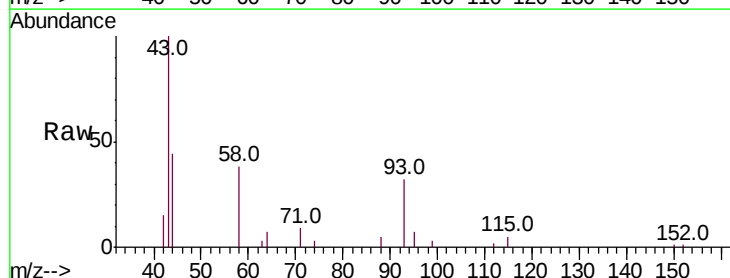
RT: 7.14 min Scan# 535

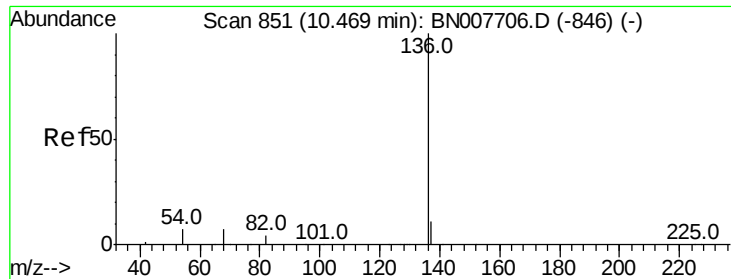
Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Tgt Ion:	93	Resp:	5451
Ion Ratio	Lower	Upper	
93	100		
63	3.2	59.3	88.9#
95	0.0	31.4	47.0#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.46 min Scan# 850

Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

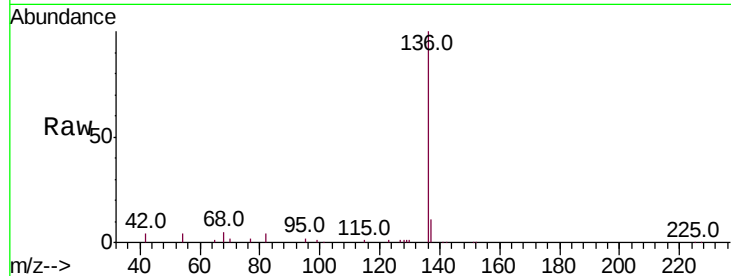
ClientSampleId :

EXT-024-SW072-092619

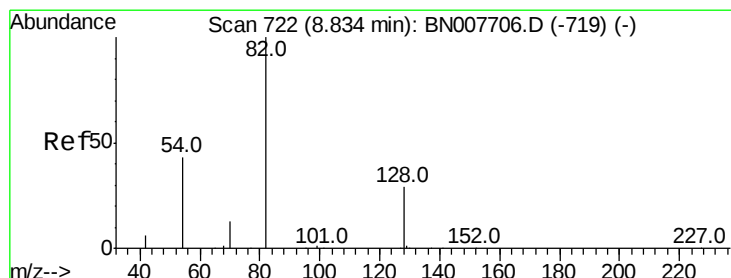
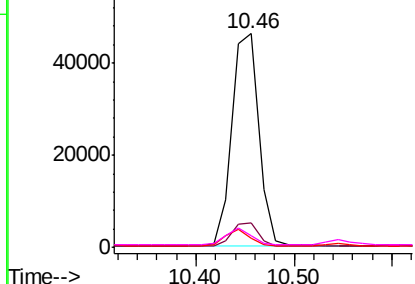
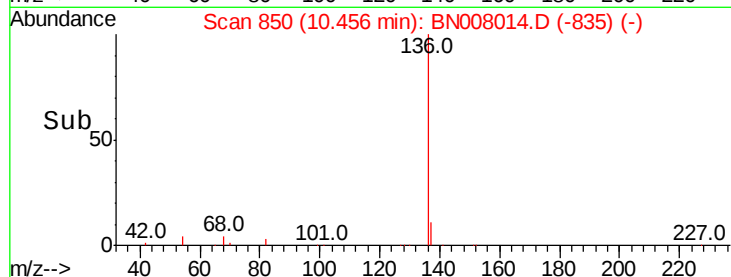
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.2	9.2	13.8	
54	4.3	5.8	8.8#	
68	5.4	6.5	9.7#	

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BNC
Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.241 ng

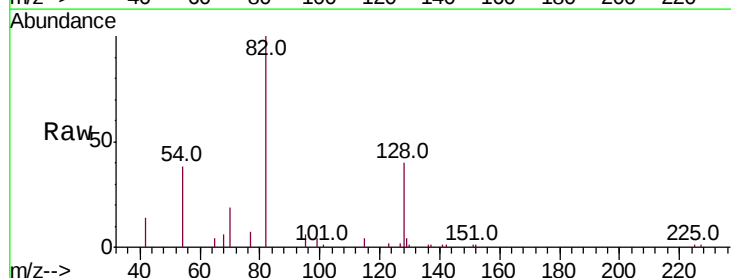
RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

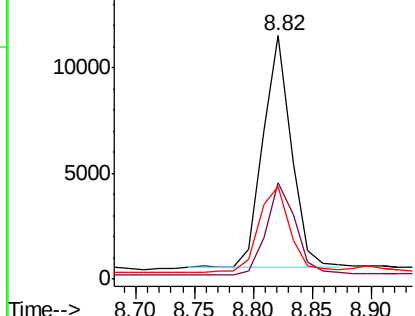
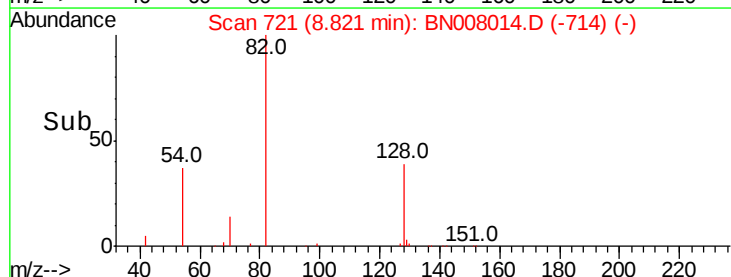
Lab File: BN008014.D

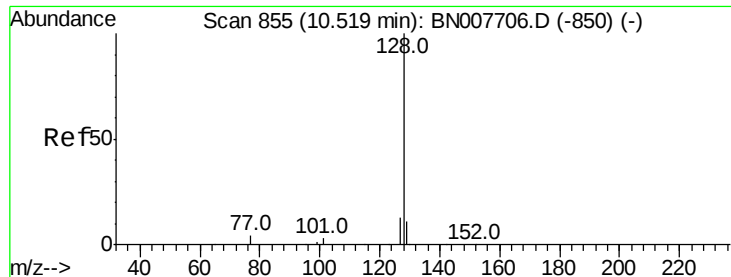
Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	39.7	24.5	36.7#	
54	38.0	35.2	52.8	



Abundance Ion 82.00 (81.70 to 82.70): BNC
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.096 ng

RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

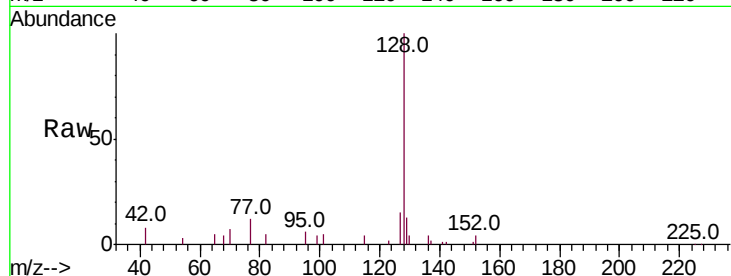
ClientSampleId :

EXT-024-SW072-092619

Tot Ion:128	Resp:	23712
Ion Ratio	Lower	Upper
128 100		
129 13.3	9.1	13.7
127 14.9	10.6	15.8

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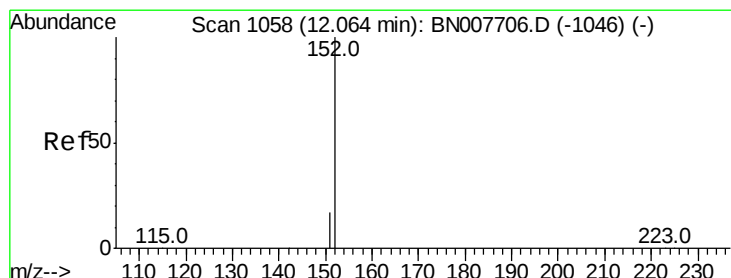
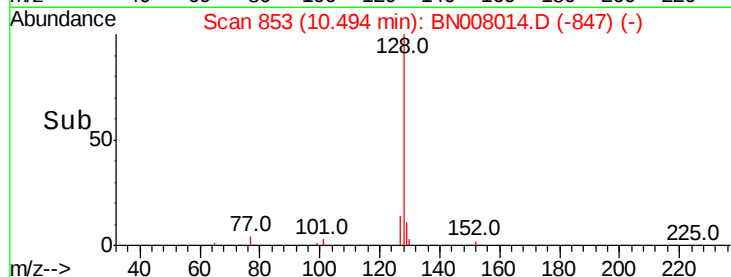
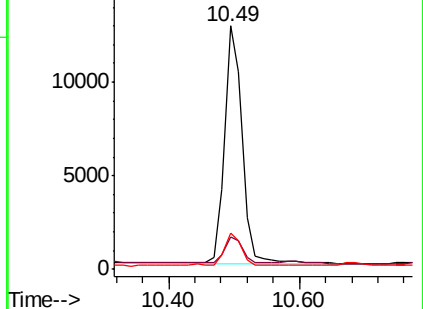
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.241 ng

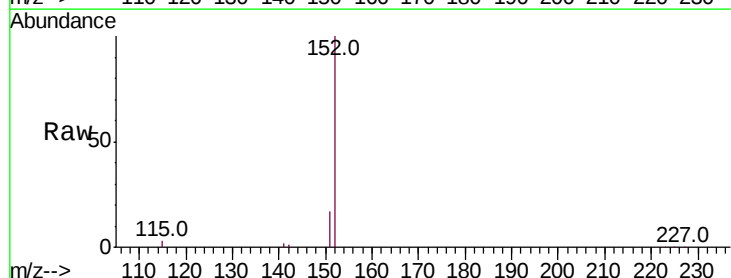
RT: 12.04 min Scan# 1053

Delta R.T. -0.02 min

Lab File: BN008014.D

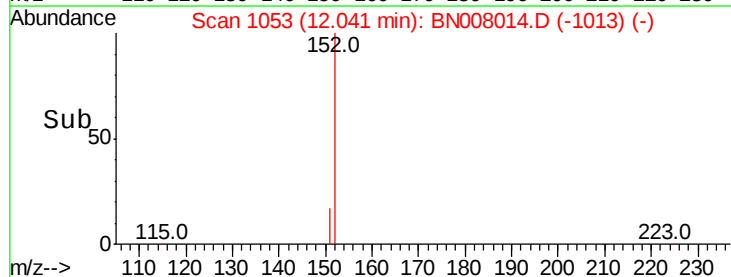
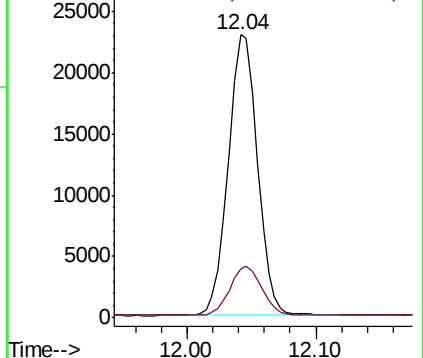
Acq: 04 Oct 2019 21:34

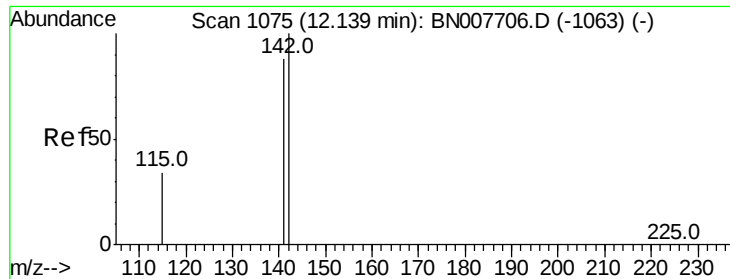
Tgt Ion:152	Resp:	35946
Ion Ratio	Lower	Upper
152 100		
151 19.4	15.4	23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





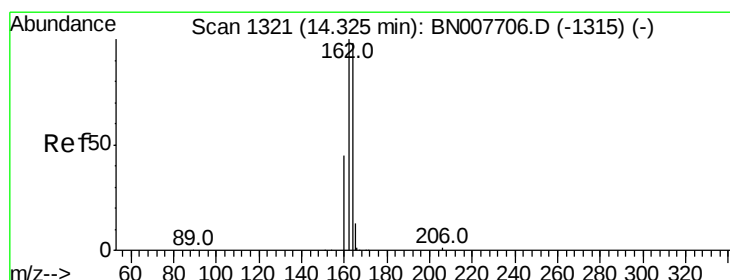
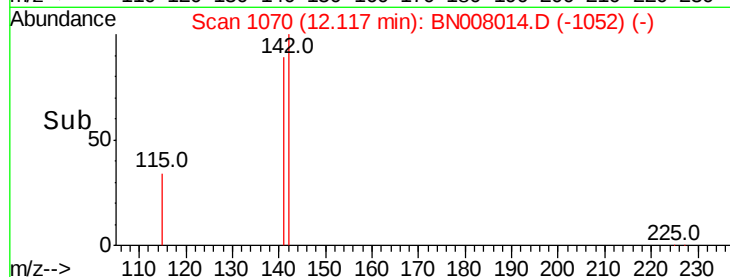
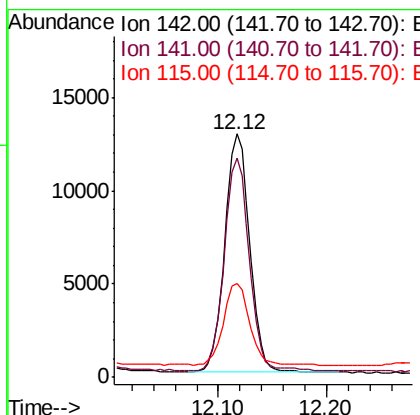
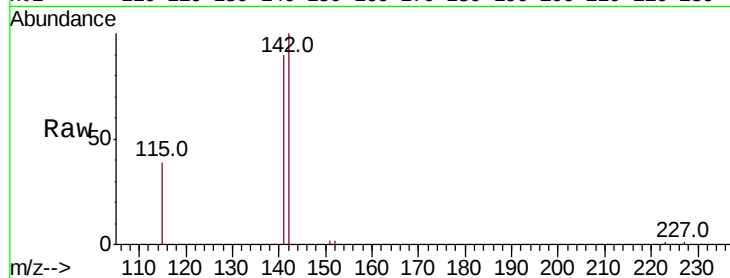
#12
2-Methylnaphthalene
Concen: 0.123 ng
RT: 12.12 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.6	106.0
115	38.8	28.3	42.5

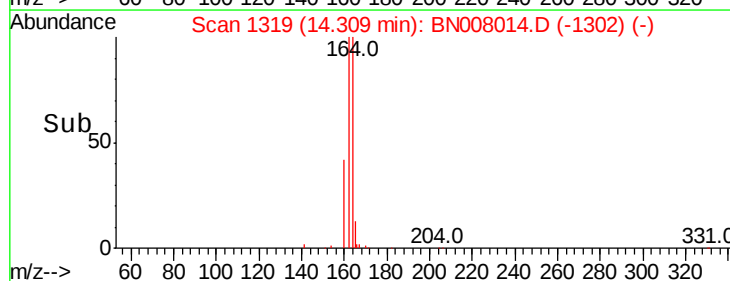
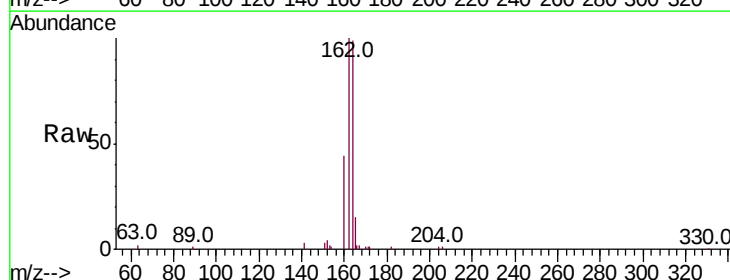
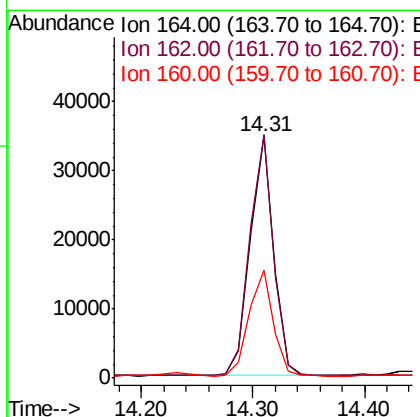
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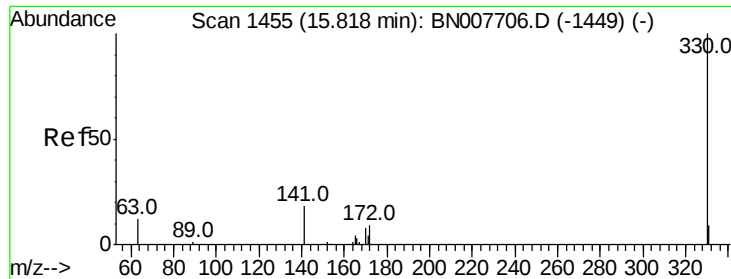
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#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.7	122.5
160	44.4	37.0	55.4





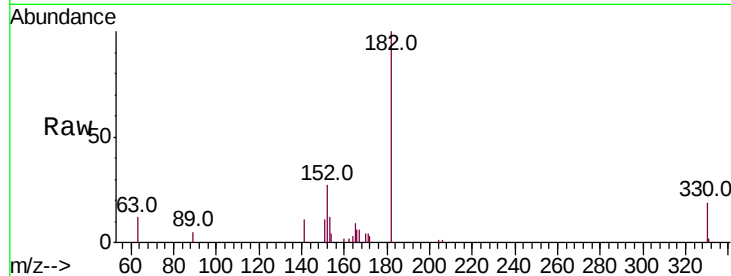
#14
 2,4,6-Tribromophenol
 Concen: 0.231 ng
 RT: 15.80 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: BN008014.D
 Acq: 04 Oct 2019 21:34

Instrument :
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 ClientSampleId :
 EXT-024-SW072-092619

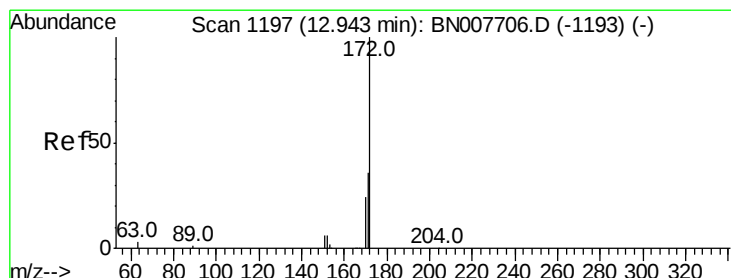
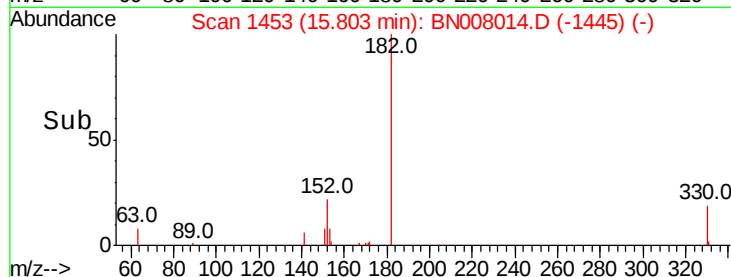
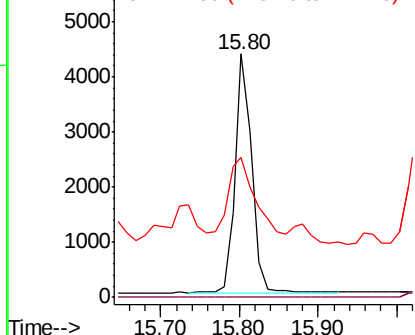
Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	52.9	28.7	43.1

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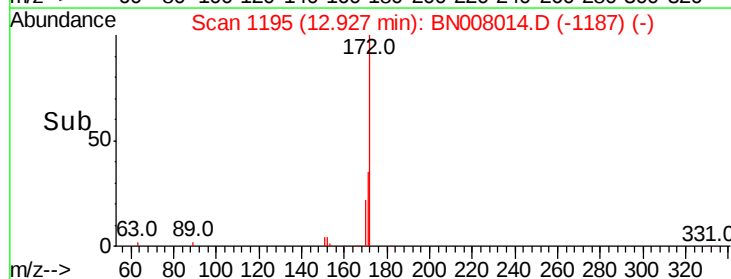
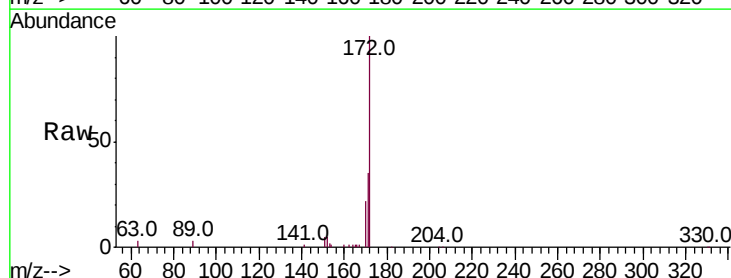
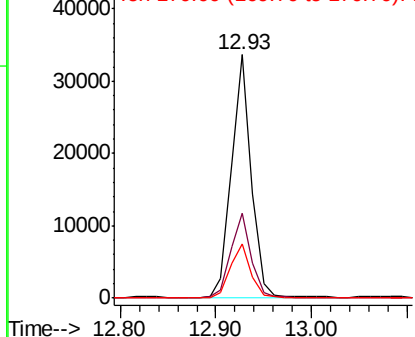
Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

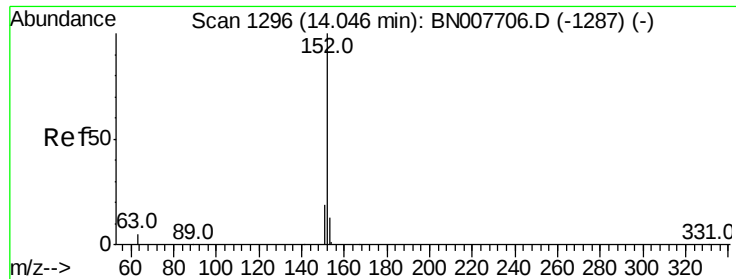


#15
 2-Fluorobiphenyl
 Concen: 0.228 ng
 RT: 12.93 min Scan# 1195
 Delta R.T. -0.02 min
 Lab File: BN008014.D
 Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.8	43.2
170	22.4	19.5	29.3

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





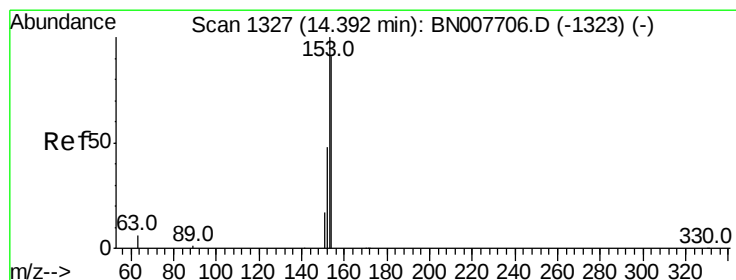
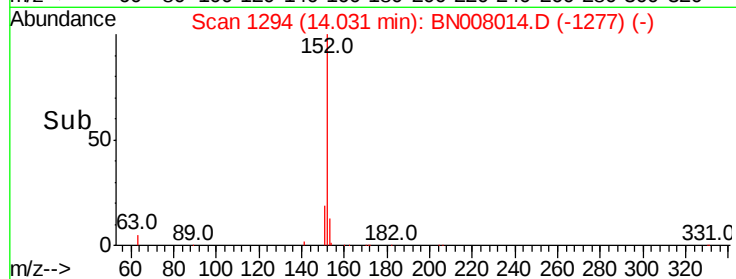
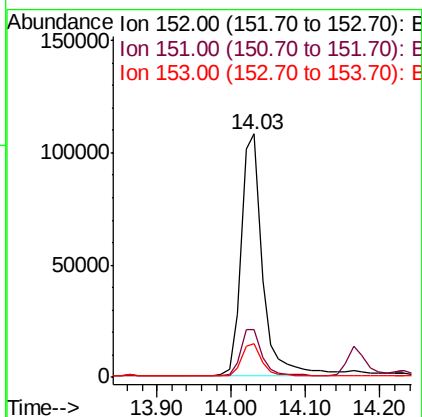
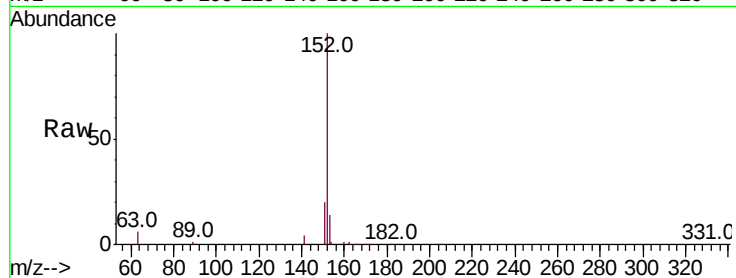
#16
Acenaphthylene
Concen: 0.799 ng
RT: 14.03 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619

Tot Ion	Ratio	Resp	Lower	Upper
152	100	215985		
151	20.1	15.5	23.3	
153	13.2	10.4	15.6	

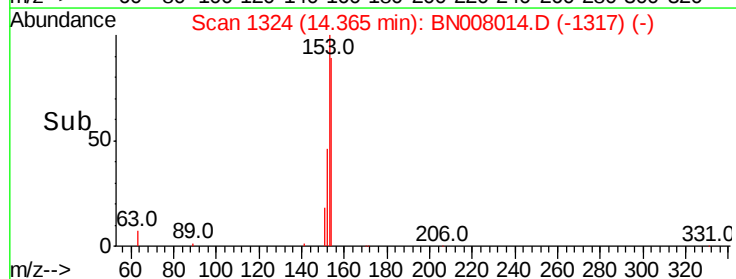
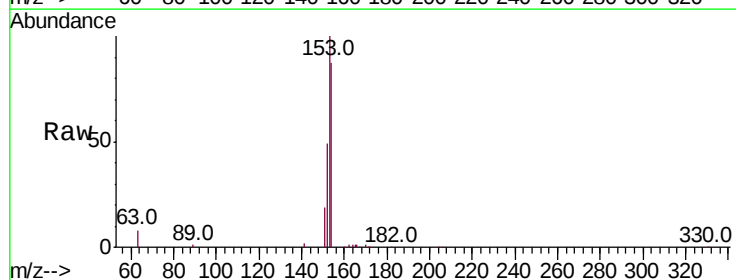
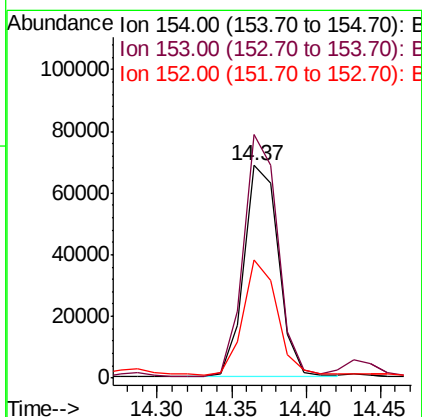
Manual Integrations
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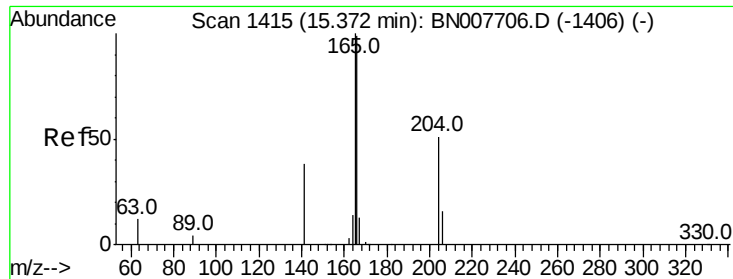
mohammad
10/7/2019 8:45:38 AM



#17
Acenaphthene
Concen: 0.634 ng
RT: 14.37 min Scan# 1324
Delta R.T. -0.03 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	110478		
153	113.0	87.0	130.4	
152	53.1	42.7	64.1	





#18

Fluorene

Concen: 0.690 ng

RT: 15.36 min Scan# 1413

Delta R.T. -0.02 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

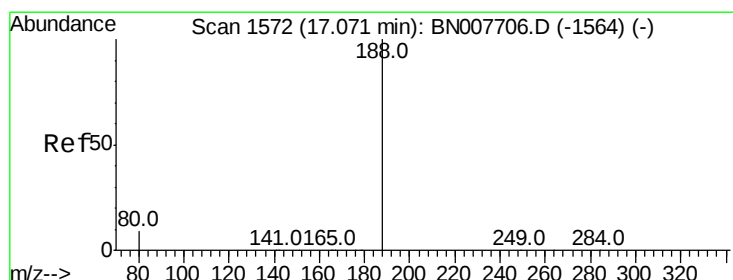
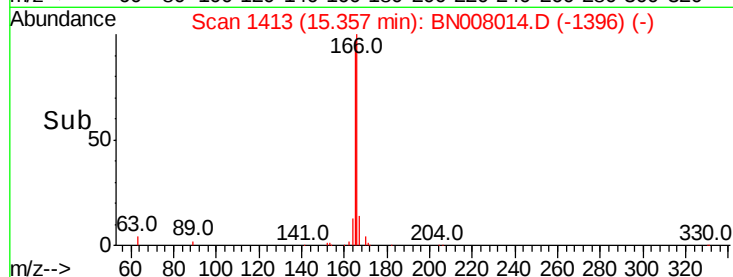
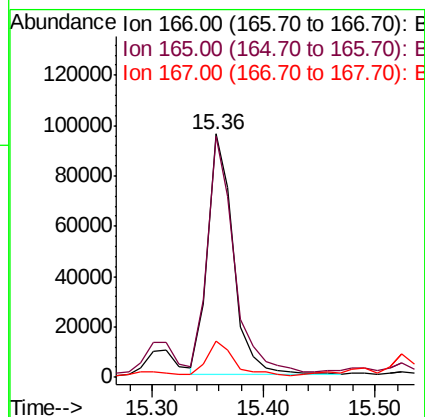
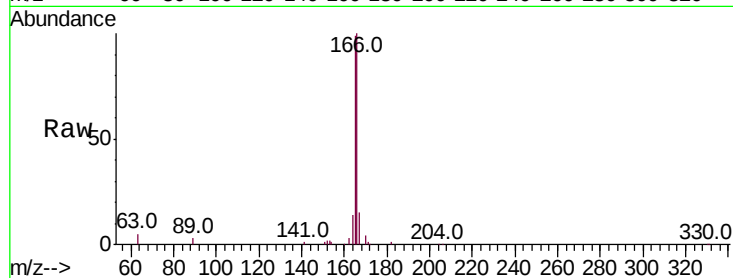
ClientSampleId :

EXT-024-SW072-092619

Tot Ion:	166	Resp:	154314
Ion Ratio	Lower	Upper	
166	100		
165	100.8	78.0	117.0
167	15.0	10.9	16.3

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#19

Phenanthrene-d10

Concen: 0.400 ng

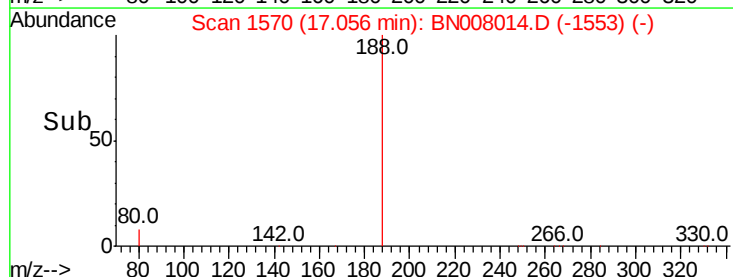
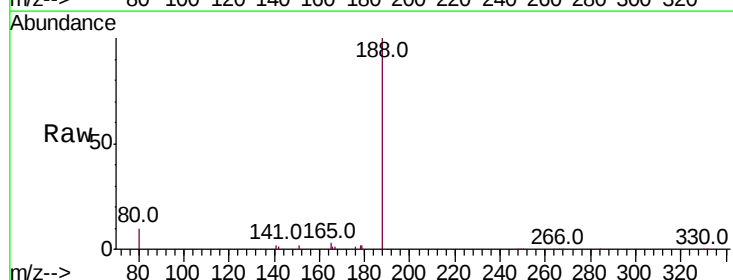
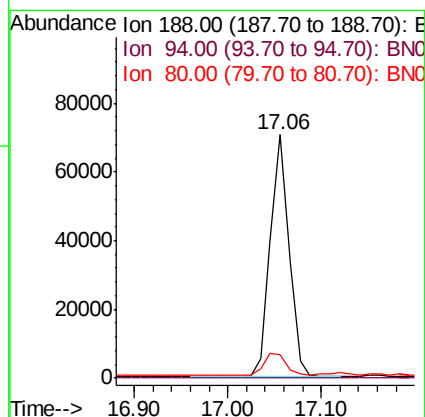
RT: 17.06 min Scan# 1570

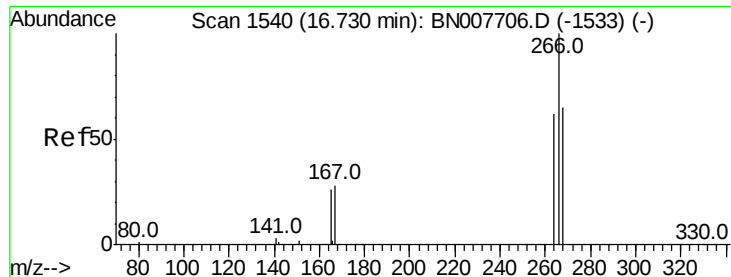
Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Tgt Ion:	188	Resp:	97817
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.8	7.4	11.2





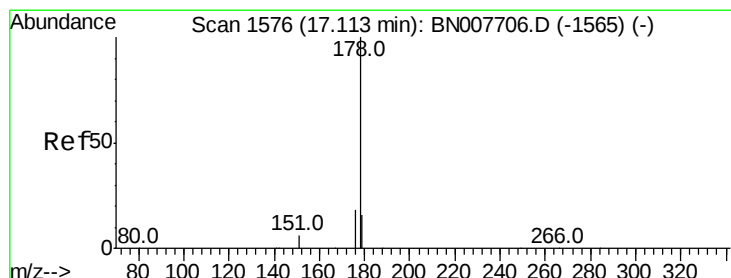
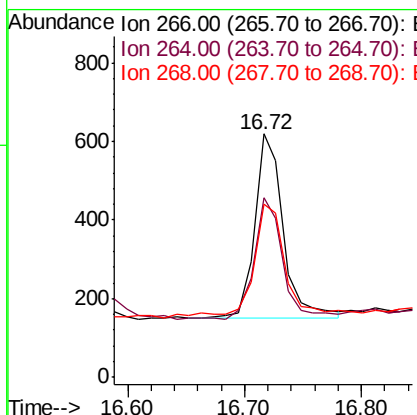
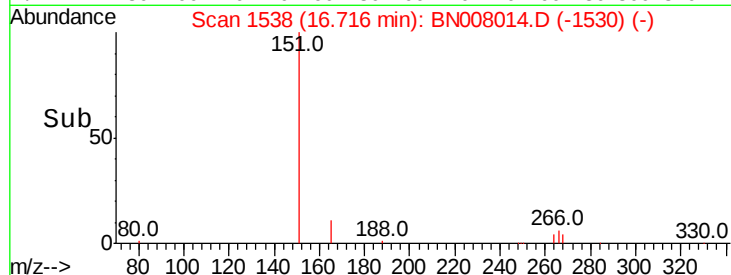
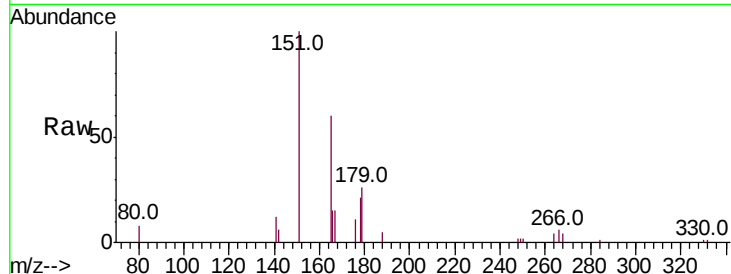
#22
 Pentachlorophenol
 Concen: 0.033 ng
 RT: 16.72 min Scan# 1538
 Delta R.T. -0.01 min
 Lab File: BN008014.D
 Acq: 04 Oct 2019 21:34

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW072-092619

Tot Ion	Ratio	Lower	Upper
266	100		
264	73.7	50.0	75.0
268	71.1	54.2	81.4

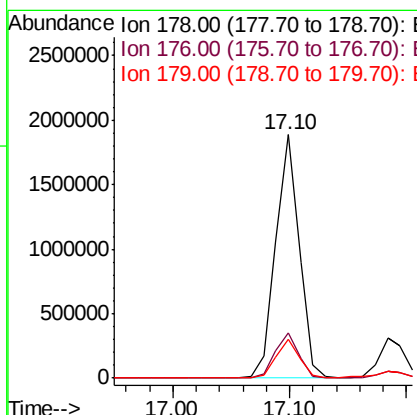
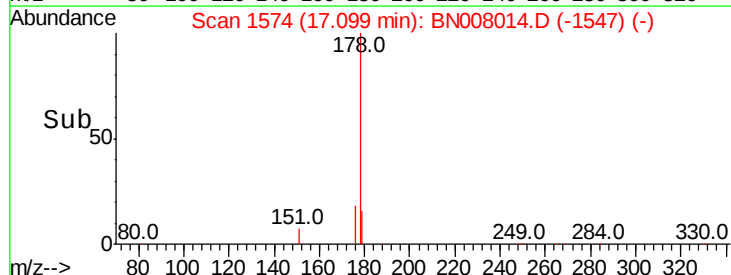
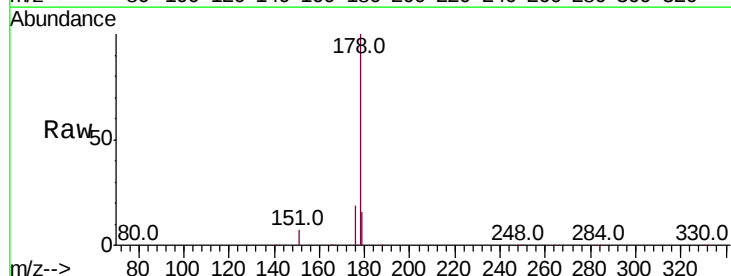
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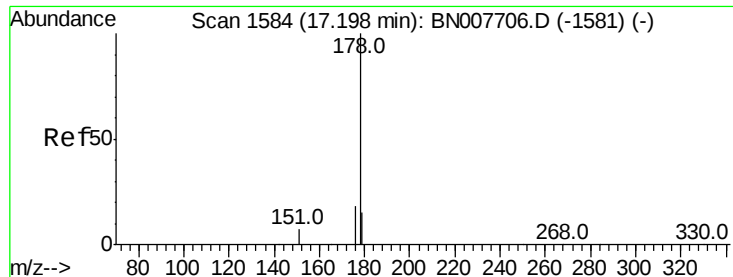
mohammad
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#23
 Phenanthrene
 Concen: 8.646 ng
 RT: 17.10 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BN008014.D
 Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.9	12.5	18.7





#24

Anthracene

Concen: 1.665 ng

RT: 17.18 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

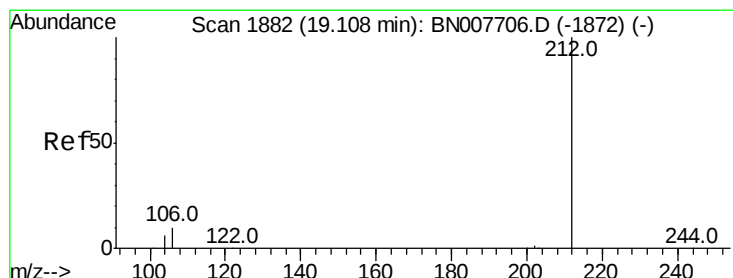
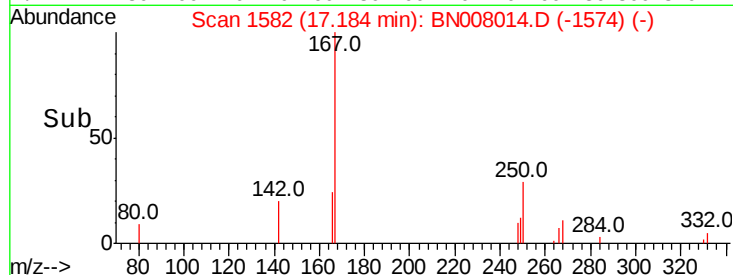
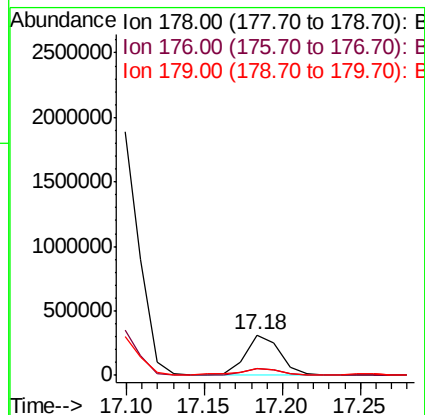
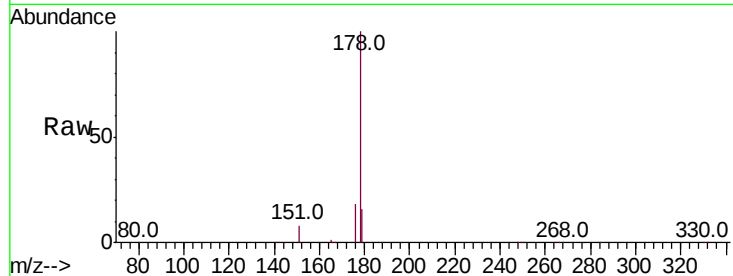
ClientSampleId :

EXT-024-SW072-092619

Tot Ion:178	Resp:	458106
Ion Ratio	Lower	Upper
178	100	
176	17.9	14.6 21.8
179	17.9	12.2 18.4

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#25

Fluoranthene-d10

Concen: 0.251 ng

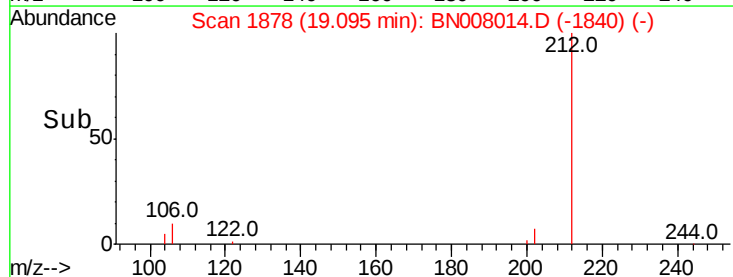
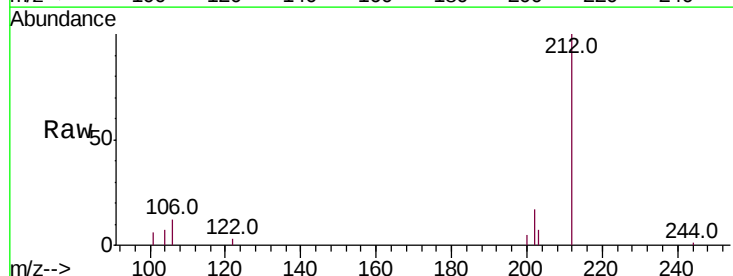
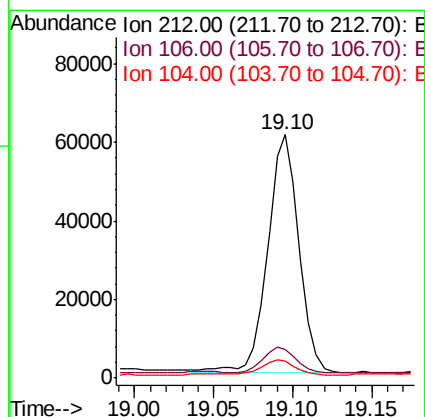
RT: 19.10 min Scan# 1878

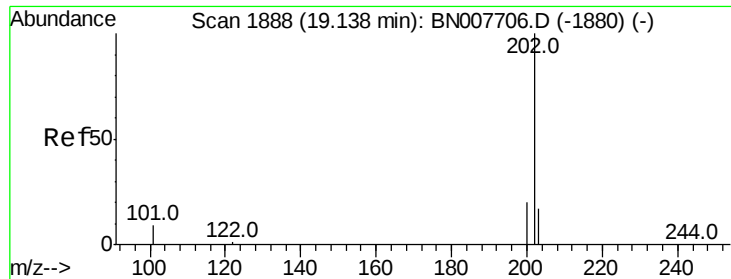
Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Tgt Ion:212	Resp:	82849
Ion Ratio	Lower	Upper
212	100	
106	10.6	9.4 14.0
104	7.0	5.3 7.9





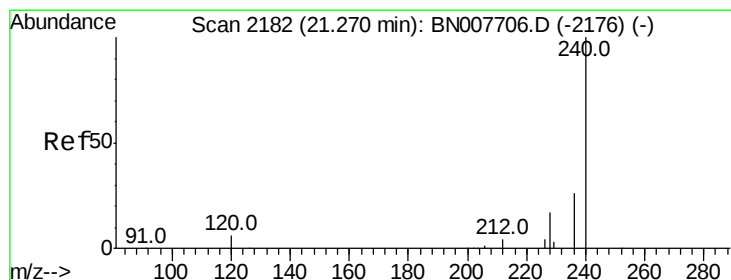
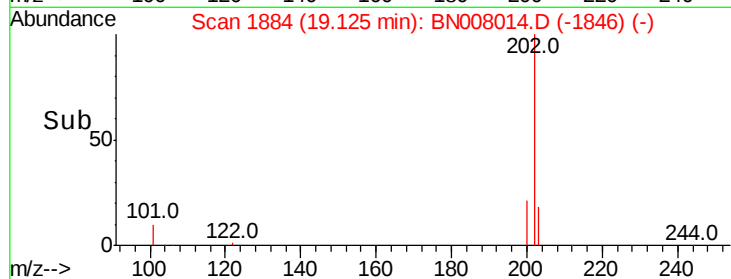
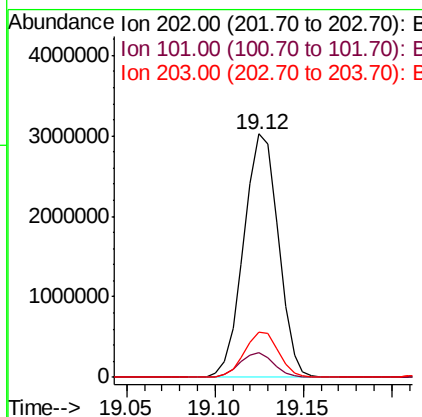
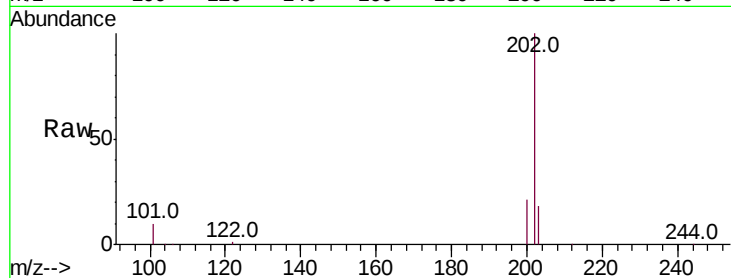
#26
 Fluoranthene
 Concen: 10.806 ng
 RT: 19.12 min Scan# 1884
 Delta R.T. -0.01 min
 Lab File: BN008014.D
 Acq: 04 Oct 2019 21:34

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW072-092619

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.1	8.4	12.6
203	18.2	13.8	20.8

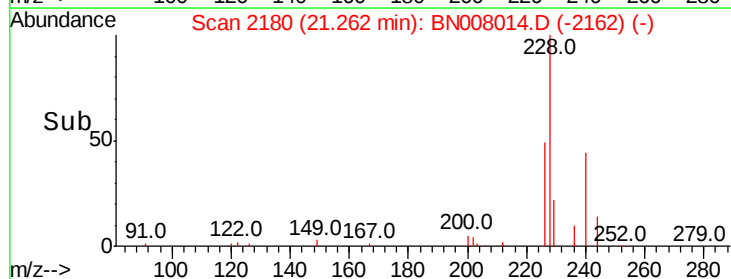
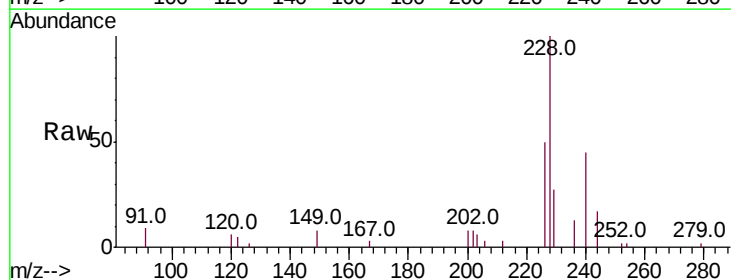
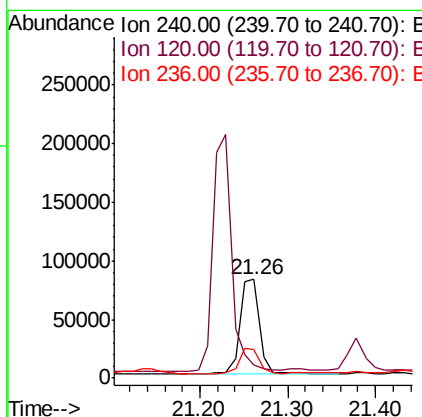
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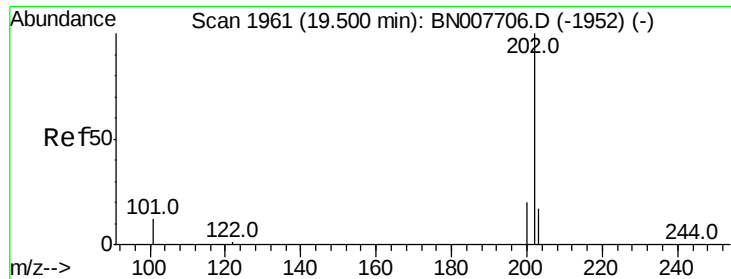
mohammad
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2180
 Delta R.T. -0.01 min
 Lab File: BN008014.D
 Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	5.4	8.2#
236	29.0	21.0	31.4





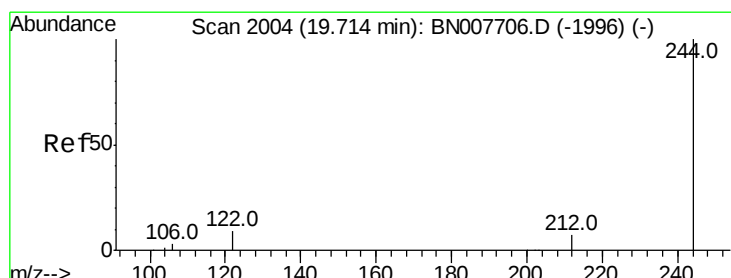
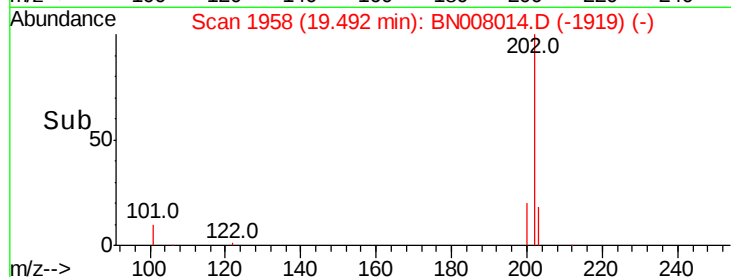
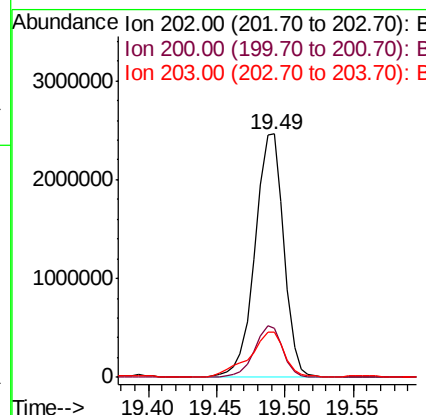
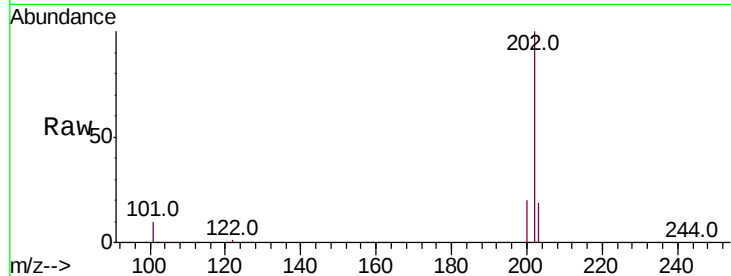
#28
Pvrene
Concen: 8.512 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.01 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.4	24.6
203	22.1	14.1	21.1#

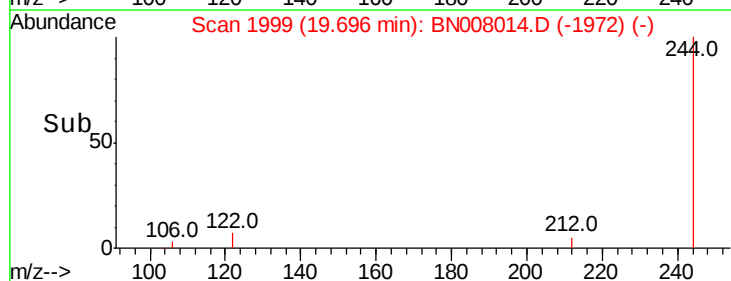
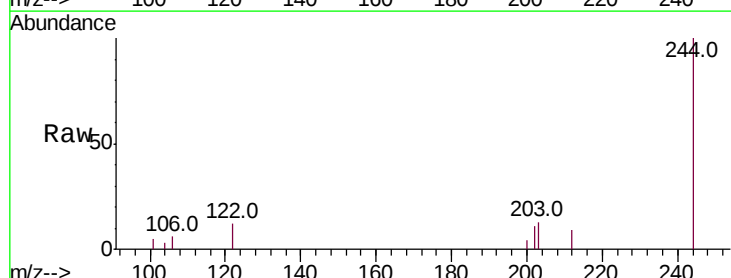
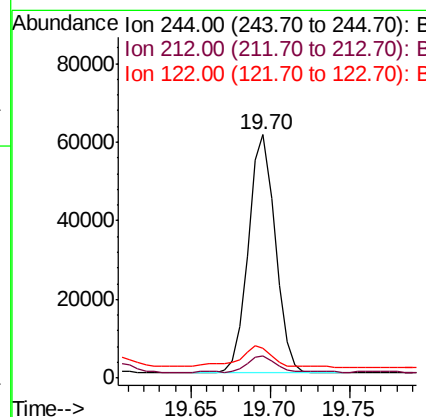
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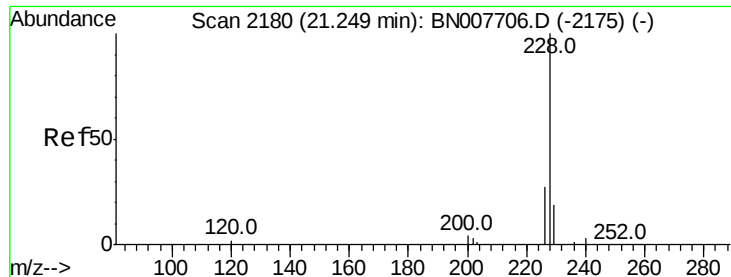
mohammad
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#29
Terphenyl-d14
Concen: 0.232 ng
RT: 19.70 min Scan# 1999
Delta R.T. -0.02 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	5.9	8.9#
122	12.3	7.4	11.2#





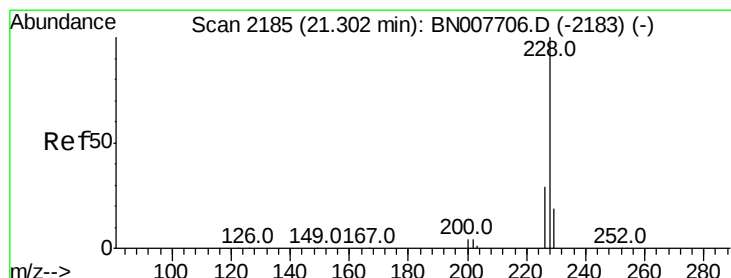
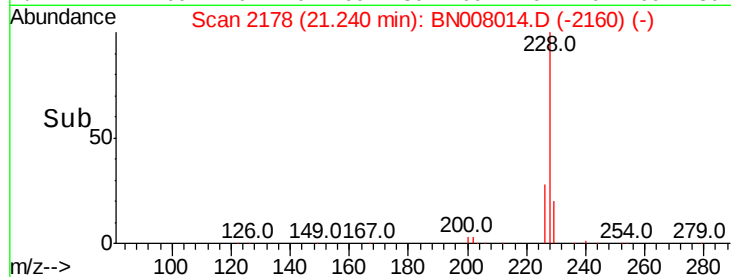
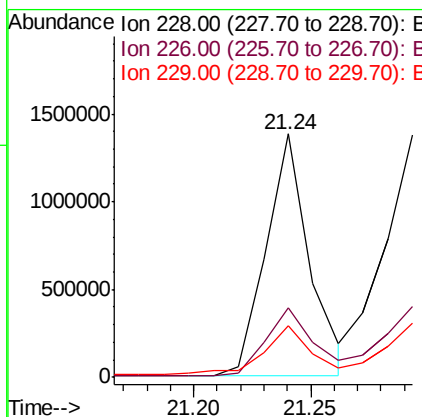
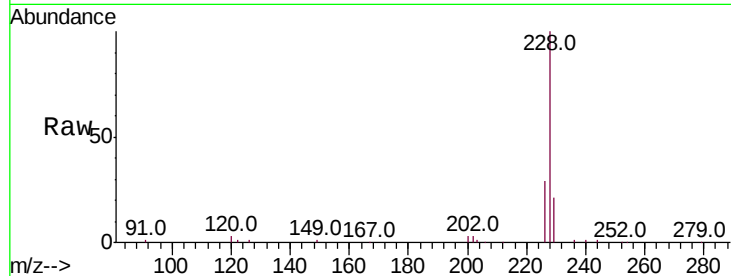
#30
Benzo(a)anthracene
Concen: 3.919 ng
RT: 21.24 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619

Tot Ion:228 Resp: 1791042
Ion Ratio Lower Upper
228 100
226 28.8 22.1 33.1
229 21.3 15.8 23.6

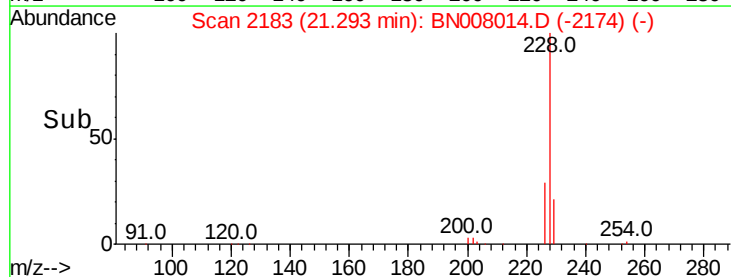
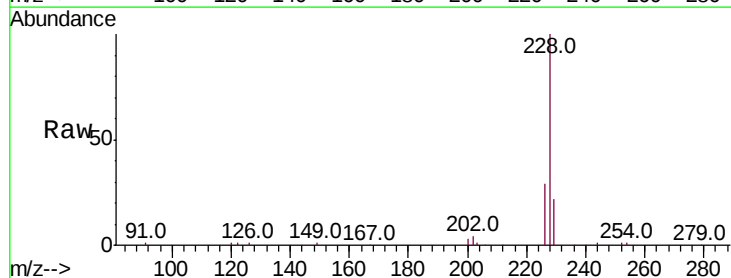
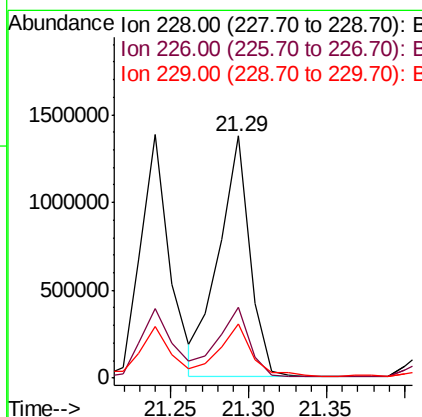
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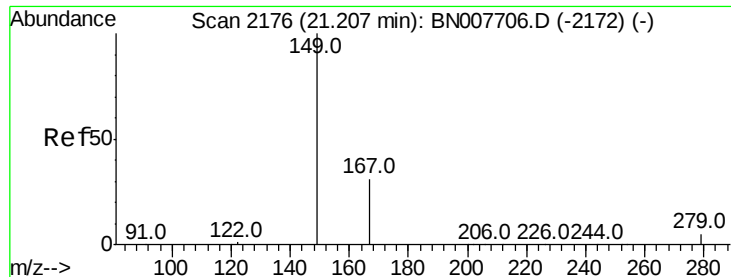
mohammad
10/7/2019 8:45:38 AM



#31
Chrysene
Concen: 4.245 ng
RT: 21.29 min Scan# 2183
Delta R.T. -0.01 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Tgt Ion:228 Resp: 1890457
Ion Ratio Lower Upper
228 100
226 29.1 23.9 35.9
229 22.5 15.8 23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.614 ng/ml

RT: 21.18 min Scan# 2172

Delta R.T. -0.03 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

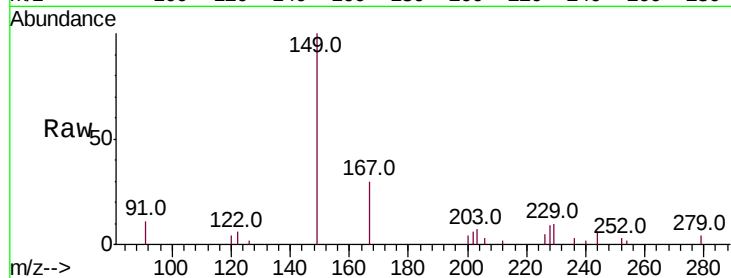
ClientSampleId :

EXT-024-SW072-092619

Tot Ion:	149	Resp:	144213
Ion Ratio	Lower	Upper	
149	100		
167	25.6	23.7	35.5
279	5.3	4.2	6.2

Manual Integrations
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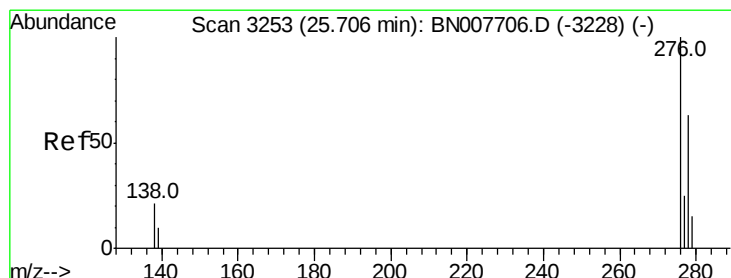
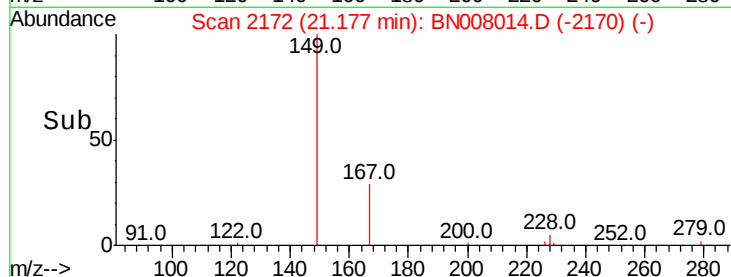
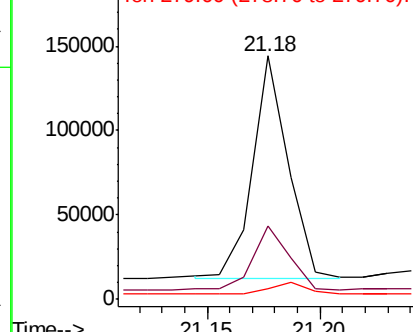


Abundance

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: 2.292 ng

RT: 25.69 min Scan# 3248

Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

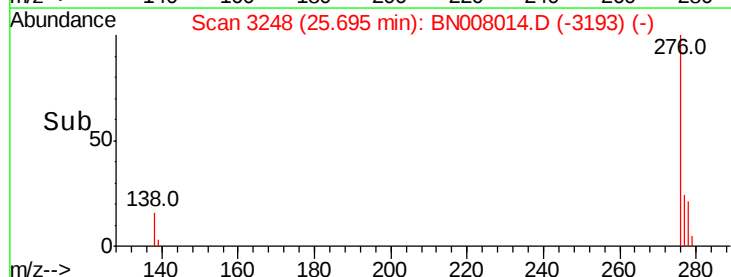
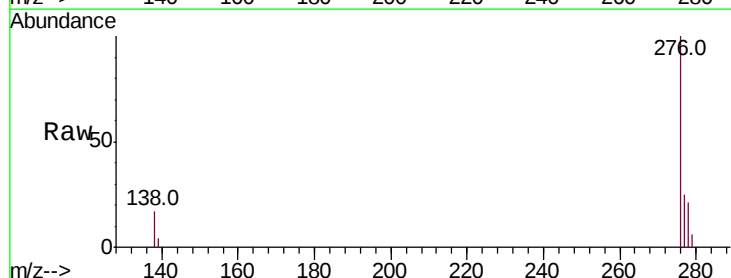
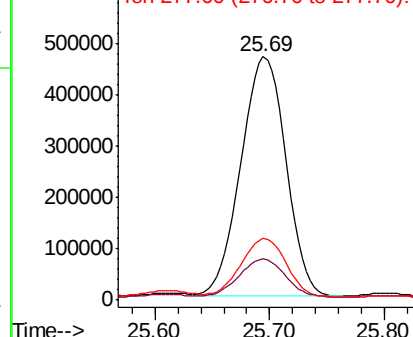
Tgt Ion:	276	Resp:	1278132
Ion Ratio	Lower	Upper	
276	100		
138	16.2	17.1	25.7#
277	24.7	20.0	30.0

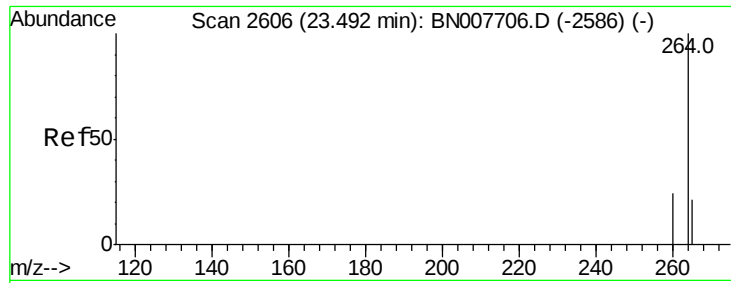
Abundance

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: BN008014.D

Acq: 04 Oct 2019 21:34

Instrument :

BNA_N

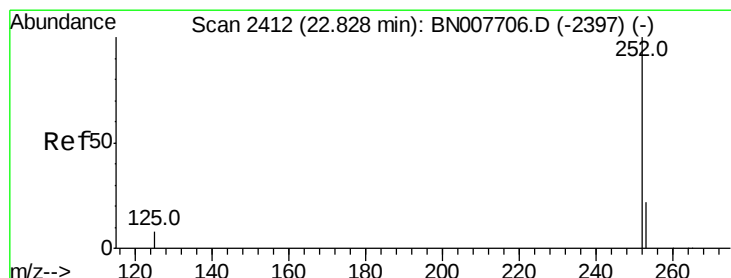
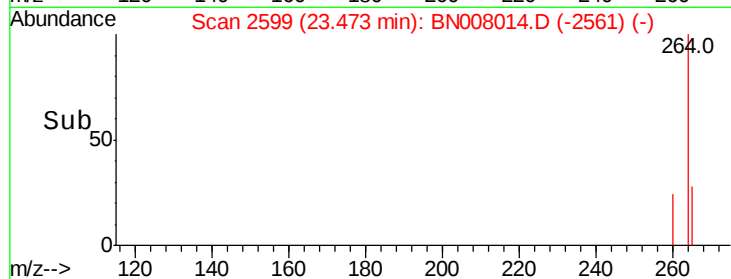
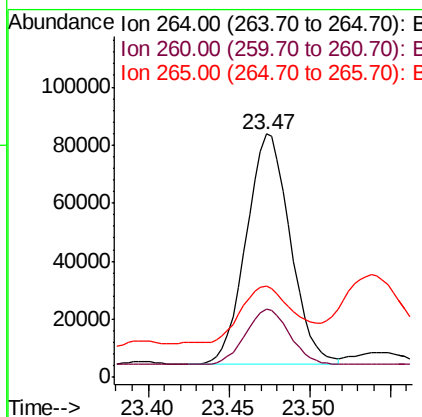
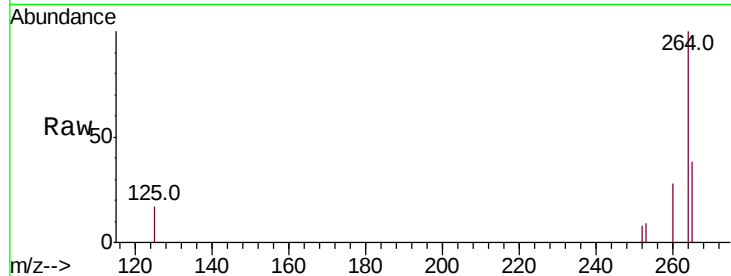
ClientSampleId :

EXT-024-SW072-092619

Tot Ion:	264	Resp:	149343
Ion Ratio	Lower	Upper	
264	100		
260	28.0	19.3	28.9
265	37.6	26.9	40.3

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#35

Benzo(b)fluoranthene

Concen: 4.750 ng

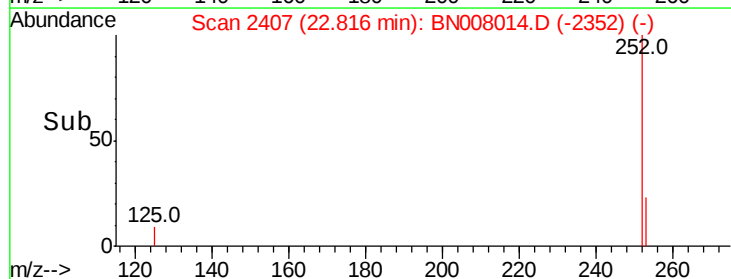
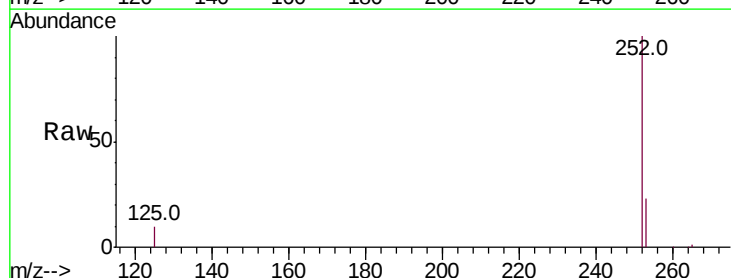
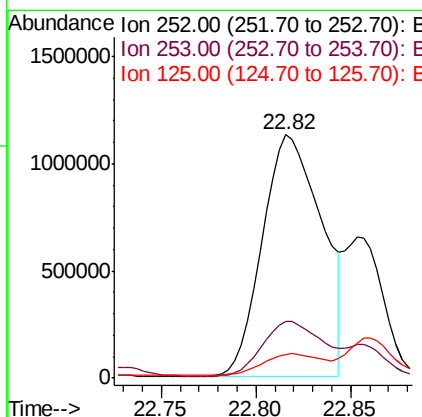
RT: 22.82 min Scan# 2407

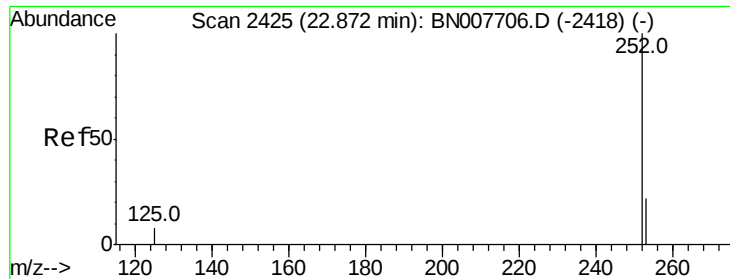
Delta R.T. -0.01 min

Lab File: BN008014.D

Acq: 04 Oct 2019 21:34

Tgt Ion:	252	Resp:	2462552
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.3	27.5
125	9.9	8.2	12.4





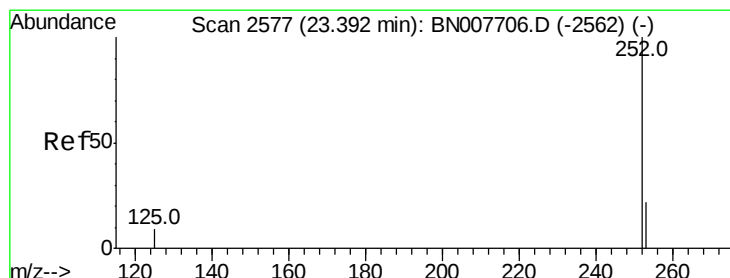
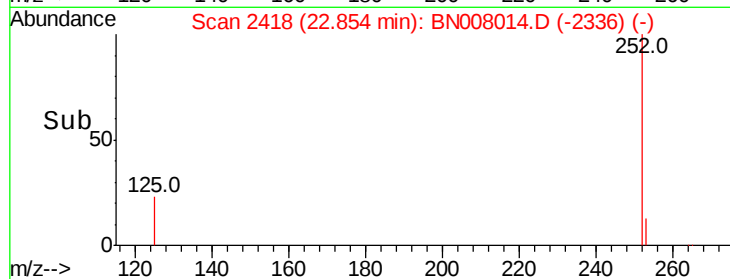
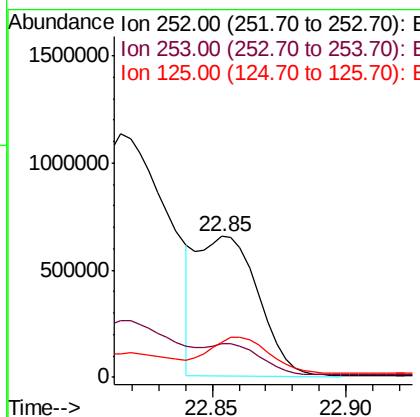
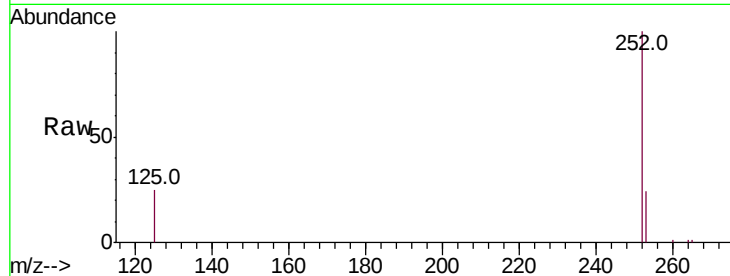
#36
Benzo(k)fluoranthene
Concen: 2.065 ng m
RT: 22.85 min Scan# 2418
Delta R.T. -0.02 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619

Tot Ion:252 Resp: 1058875
Ion Ratio Lower Upper
252 100
253 23.7 18.5 27.7
125 25.1 8.4 12.6#

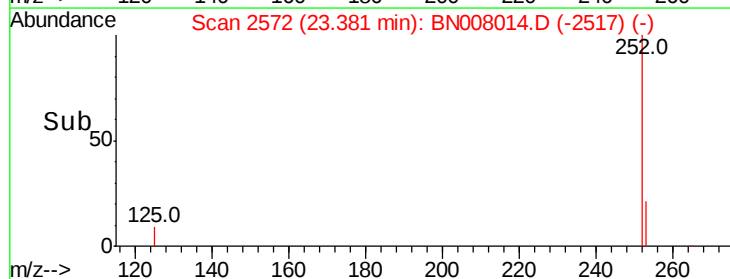
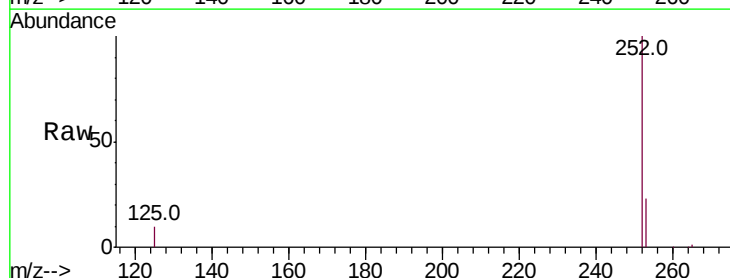
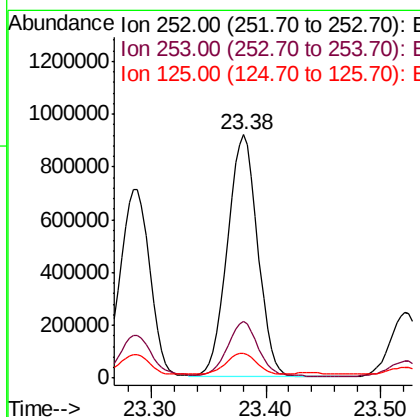
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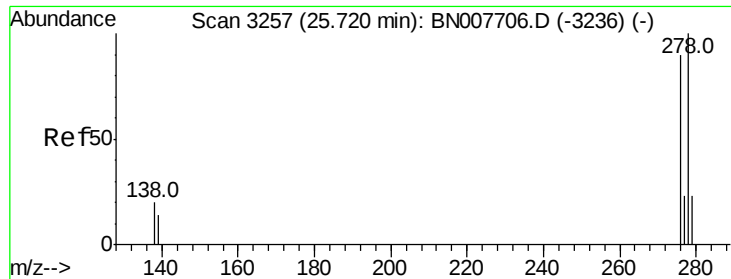
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#37
Benzo(a)pyrene
Concen: 3.448 ng
RT: 23.38 min Scan# 2572
Delta R.T. -0.01 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Tgt Ion:252 Resp: 1679770
Ion Ratio Lower Upper
252 100
253 23.1 18.6 27.8
125 10.3 9.4 14.0





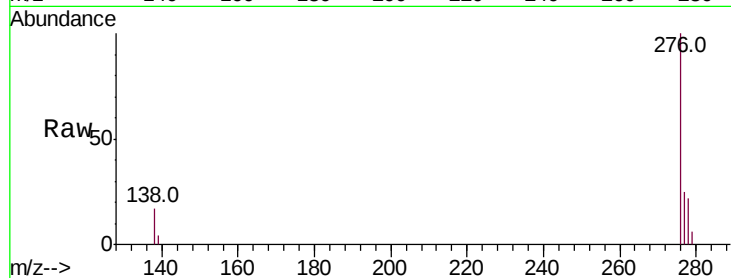
#38
Dibenzo(a,h)anthracene
Concen: 0.611 ng
RT: 25.70 min Scan# 3249
Delta R.T. -0.02 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW072-092619

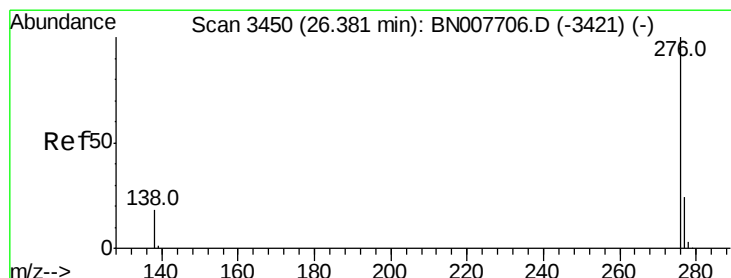
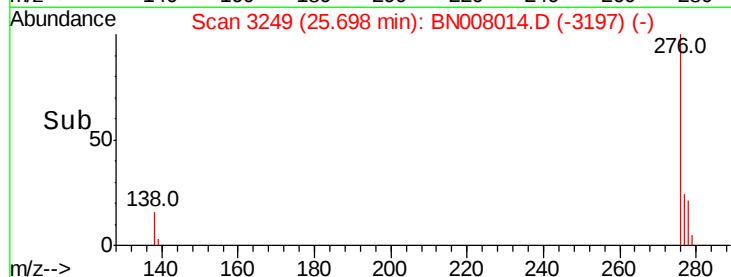
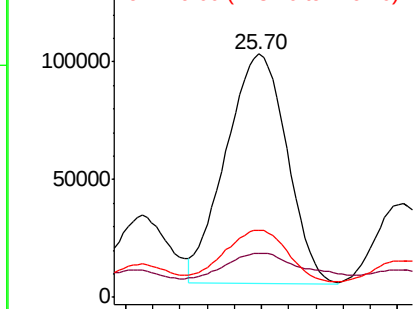
Tot Ion	Ratio	Lower	Upper
278	100		
139	18.2	11.8	17.6#
279	27.7	19.4	29.2

Manual Integrations
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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



#39
Benzo(g,h,i)perylene
Concen: 2.547 ng
RT: 26.38 min Scan# 3447
Delta R.T. -0.00 min
Lab File: BN008014.D
Acq: 04 Oct 2019 21:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.8	29.8
138	17.1	15.1	22.7

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

