

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN100219\
 Data File : BN007970.D
 Acq On : 02 Oct 2019 17:53
 Operator : JU
 Sample : K5078-01 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW065-092519

Manual Integrations
 APPROVED

mohammad
 10/4/2019 8:16:29 AM

Quant Time: Oct 03 07:04:44 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	5701	0.40	ng	0.00
7) Naphthalene-d8	10.46	136	23957	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	15296	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	32380	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	34397	0.40	ng	-0.01
34) Perylene-d12	23.47	264	36704	0.40	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.31	112	1533	0.08	ng	0.00
5) Phenol-d6	6.87	99	2068	0.08	ng	0.00
8) Nitrobenzene-d5	8.82	82	1736	0.08	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	3441	0.09	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	664	0.08	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	4742	0.08	ng	-0.01
25) Fluoranthene-d10	19.09	212	8191	0.08	ng	-0.01
29) Terphenyl-d14	19.70	244	6764	0.08	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.51	128	2102	0.031	ng	# 80
12) 2-Methylnaphthalene	12.12	142	1158	0.025	ng	# 82
16) Acenaphthylene	14.03	152	19601	0.242	ng	99
17) Acenaphthene	14.37	154	4312	0.082	ng	97
18) Fluorene	15.36	166	6830	0.102	ng	# 91
22) Pentachlorophenol	16.72	266	242	0.031	ng	87
23) Phenanthrene	17.10	178	218471	2.166	ng	100
24) Anthracene	17.19	178	27537	0.302	ng	# 94
26) Fluoranthene	19.12	202	586768	4.678	ng	99
28) Pyrene	19.49	202	495897	4.227	ng	96
30) Benzo(a)anthracene	21.24	228	211072	1.666	ng	98
31) Chrysene	21.29	228	271432	2.199	ng	97
32) Bis(2-ethylhexyl)phthalate	21.19	149	22276	0.342	ng	99
33) Indeno(1,2,3-cd)pyrene	25.68	276	195657	1.266	ng	95
35) Benzo(b)fluoranthene	22.81	252	387054	3.038	ng	100
36) Benzo(k)fluoranthene	22.86	252	115850m	0.919	ng	
37) Benzo(a)pyrene	23.38	252	235410	1.966	ng	99
38) Dibenzo(a,h)anthracene	25.69	278	43437	0.355	ng	# 88
39) Benzo(g,h,i)perylene	26.35	276	194162	1.601	ng	100

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

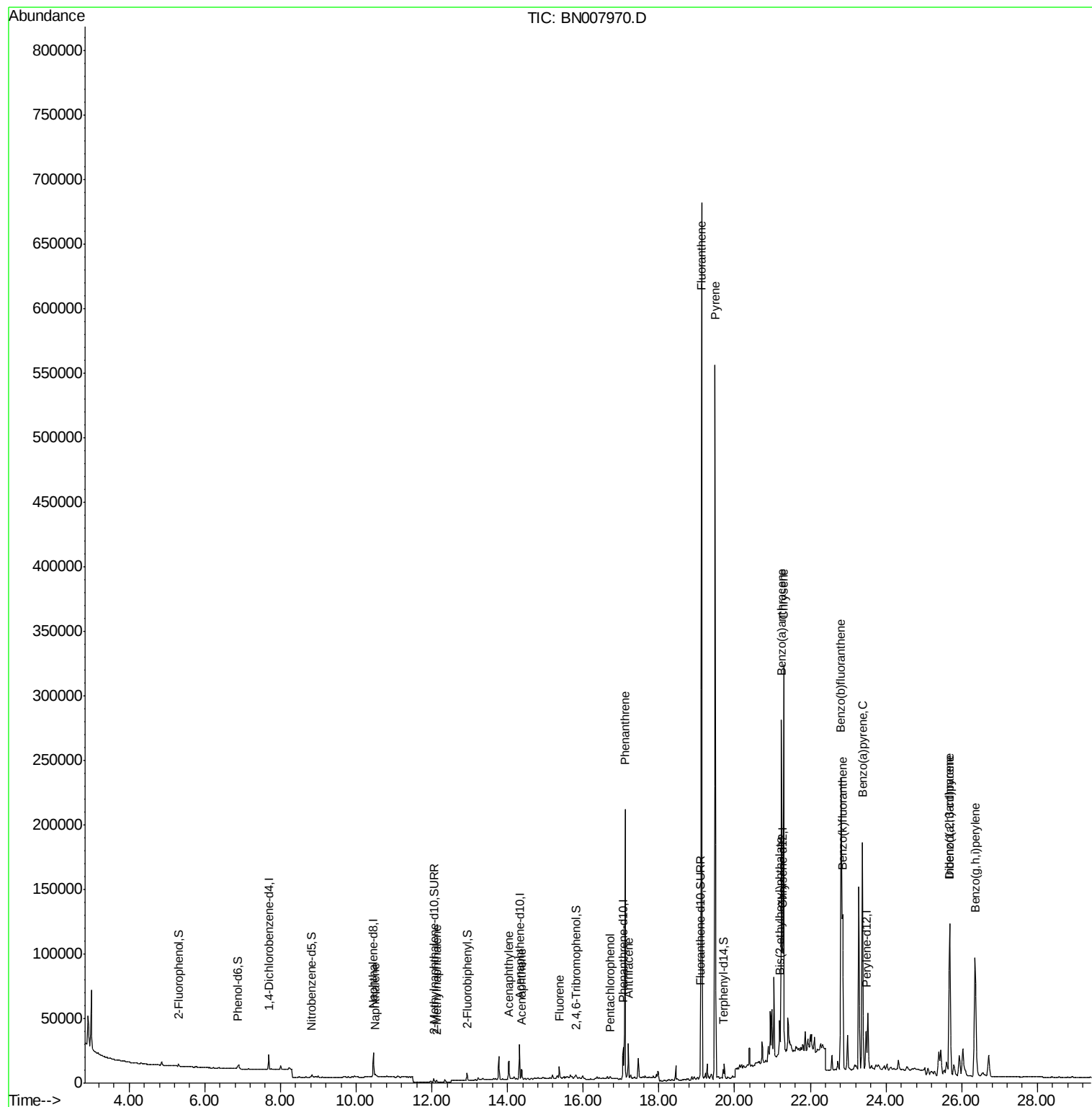
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN100219\
Data File : BN007970.D
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Operator : JU
Sample : K5078-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

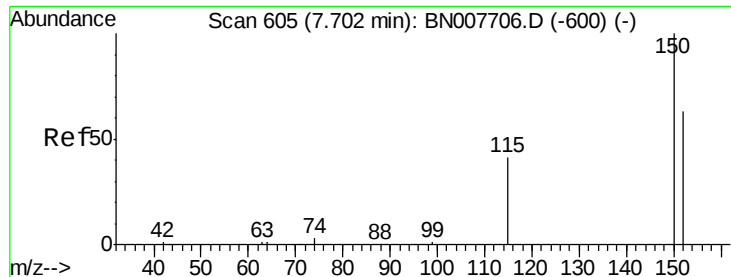
Instrument :
BNA_N
ClientSampleId :
EXT-024-SW065-092519

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10/4/2019 8:16:29 AM

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#1

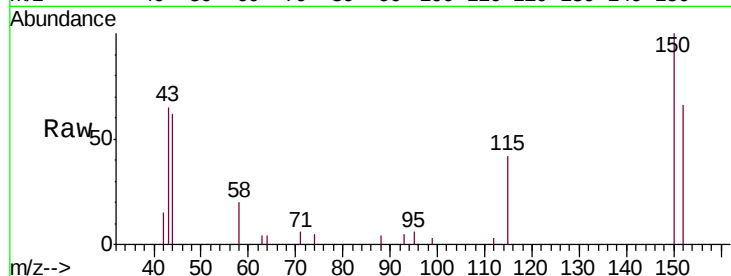
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 604
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW065-092519

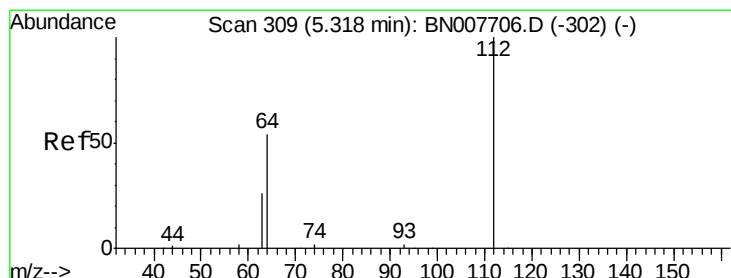
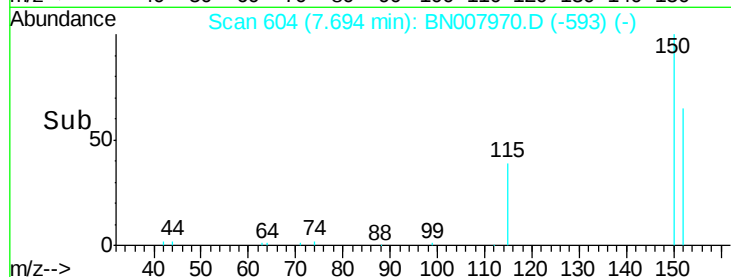
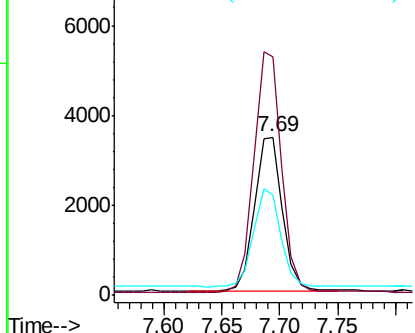
Tgt Ion	Ratio	Lower	Upper
152	100		
150	150.8	125.6	188.4
115	63.7	53.3	79.9

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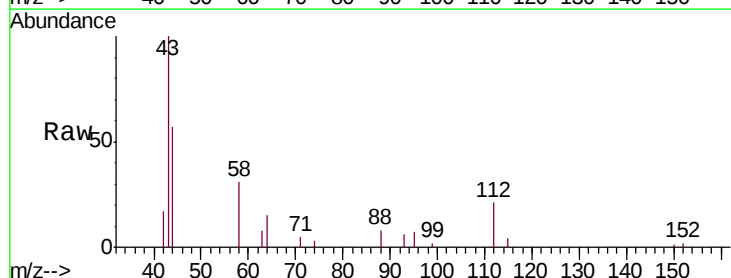
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



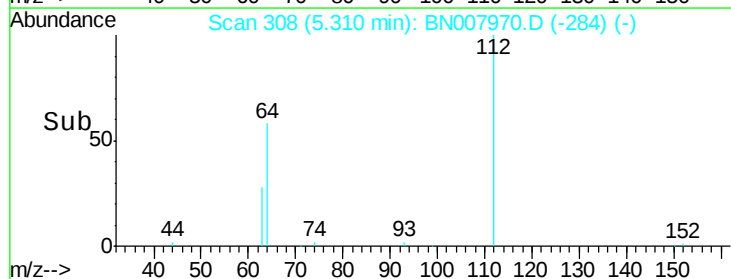
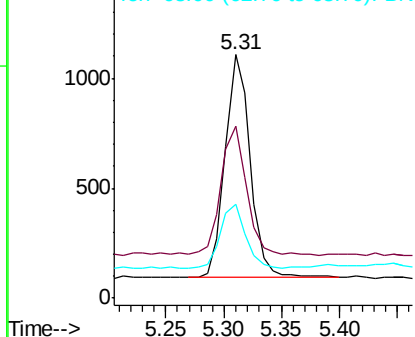
#4

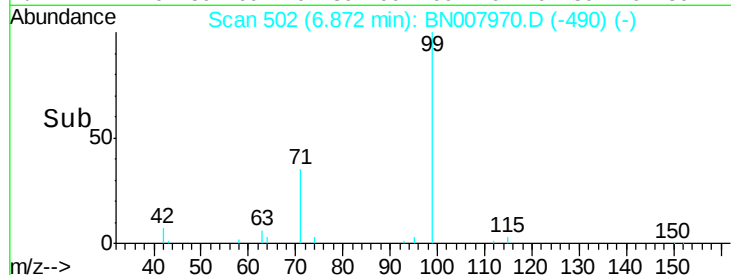
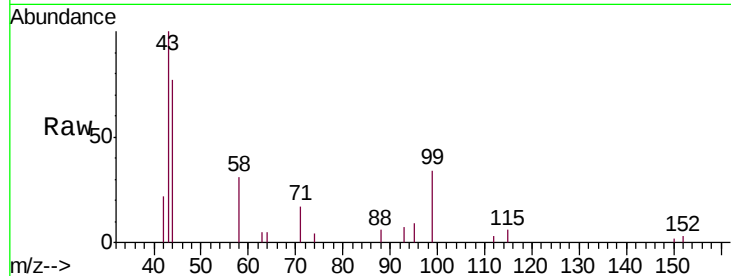
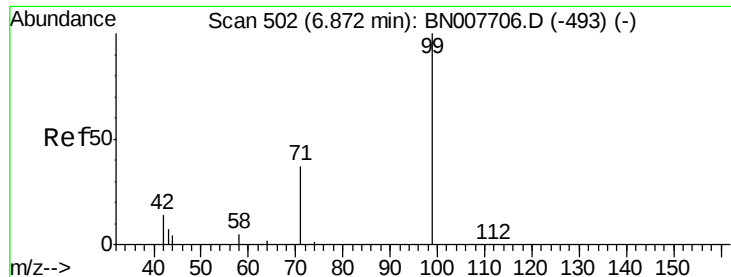
2-Fluorophenol
Concen: 0.078 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	46.6	70.0
63	28.8	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: 0.079 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	99	Resp:	2068
Ion Ratio	Lower	Upper	
99	100		
42	24.4	12.8	19.2#
71	34.6	27.6	41.4

Instrument :

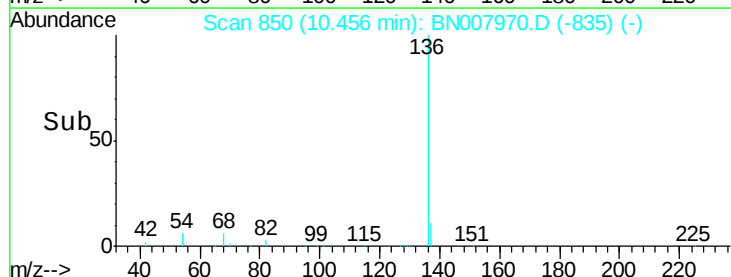
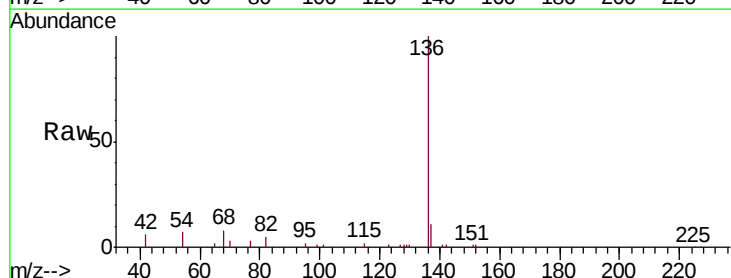
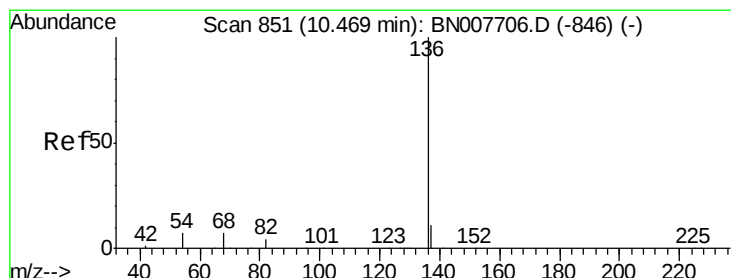
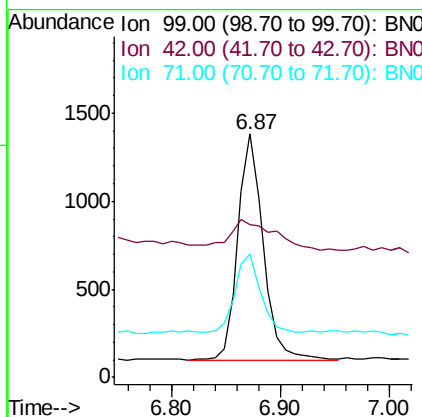
BNA_N

ClientSampleId :

EXT-024-SW065-092519

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#7

Naphthalene-d8

Concen: 0.400 ng

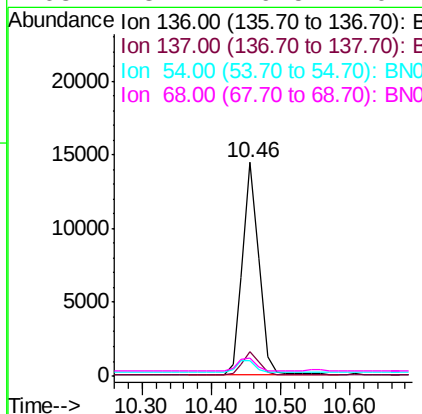
RT: 10.46 min Scan# 850

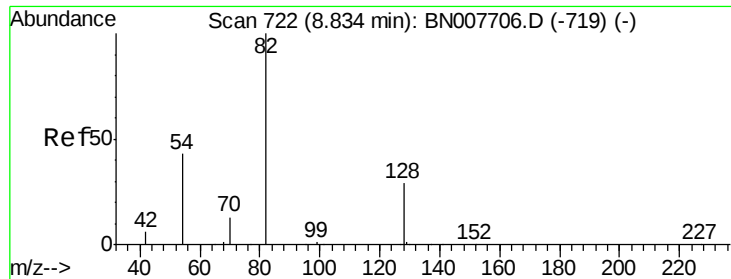
Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	136	Resp:	23957
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.2	13.8
54	7.1	5.8	8.8
68	8.4	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.083 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

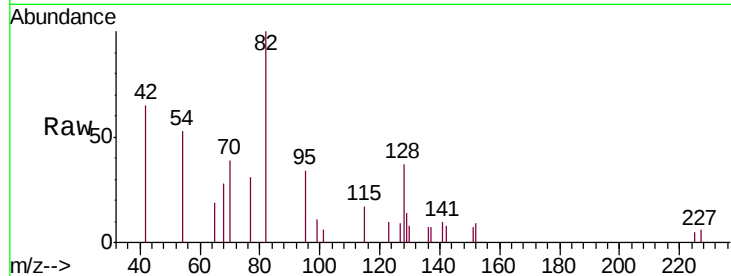
ClientSampleId :

EXT-024-SW065-092519

Tgt Ion:	82	Resp:	1736
Ion Ratio	Lower	Upper	
82	100		
128	37.1	24.5	36.7#
54	52.8	35.2	52.8

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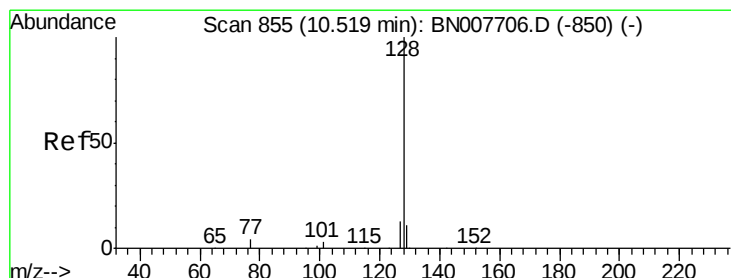
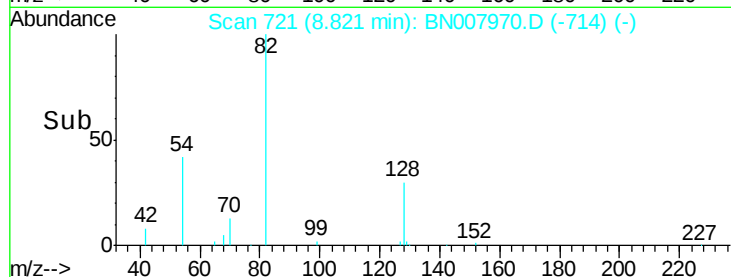
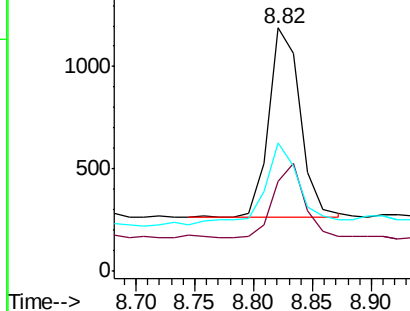
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Abundance Ion 82.00 (81.70 to 82.70): BN007970.D (-847) (-)

Ion 128.00 (127.70 to 128.70): BN007970.D (-847) (-)

Ion 54.00 (53.70 to 54.70): BN007970.D (-847) (-)



#9

Naphthalene

Concen: 0.031 ng

RT: 10.51 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN007970.D

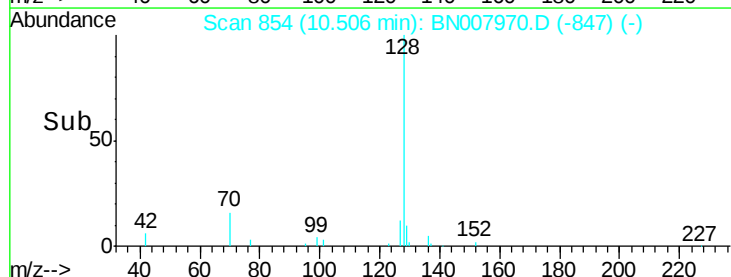
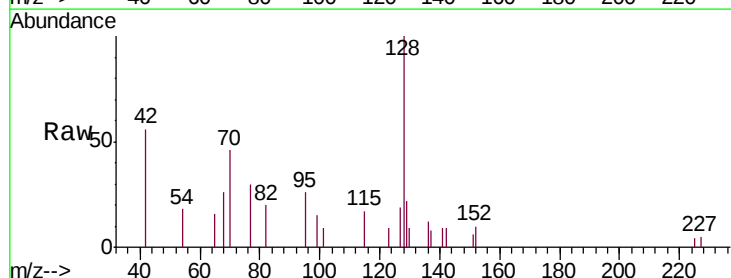
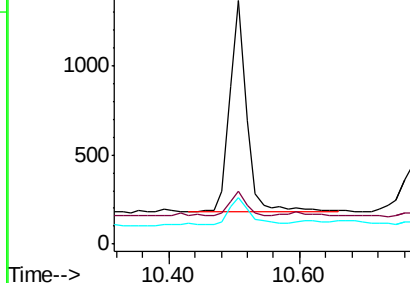
Acq: 02 Oct 2019 17:53

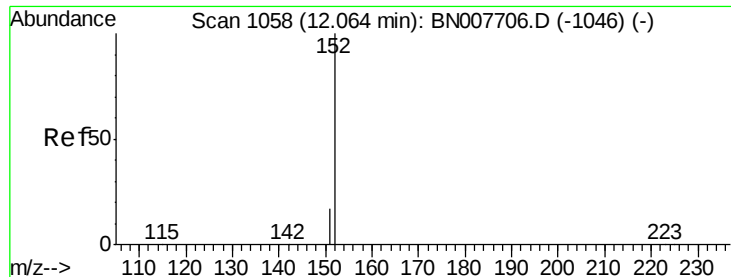
Tgt Ion:	128	Resp:	2102
Ion Ratio	Lower	Upper	
128	100		
129	21.6	9.1	13.7#
127	18.9	10.6	15.8#

Abundance Ion 128.00 (127.70 to 128.70): BN007970.D (-847) (-)

Ion 129.00 (128.70 to 129.70): BN007970.D (-847) (-)

Ion 127.00 (126.70 to 127.70): BN007970.D (-847) (-)





#11

2-Methylnaphthalene-d10

Concen: 0.085 ng

RT: 12.05 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW065-092519

Tgt Ion:152 Resp: 3441

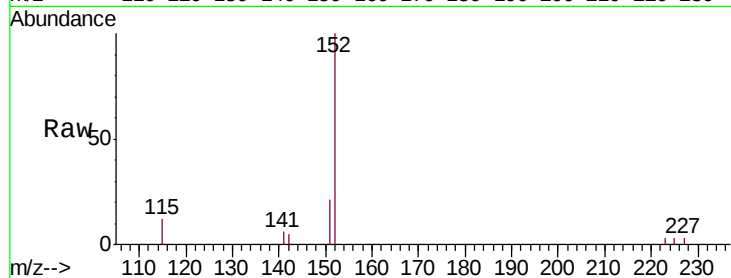
Ion Ratio Lower Upper

152 100

151 19.2 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

12.05

2500

2000

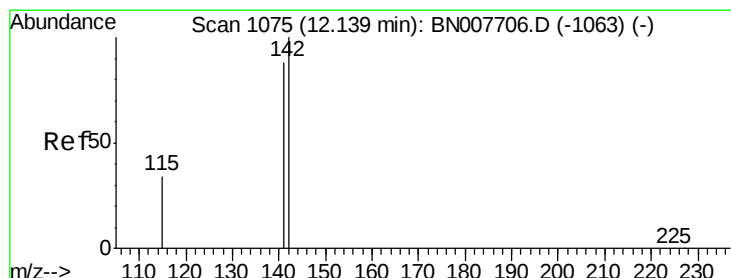
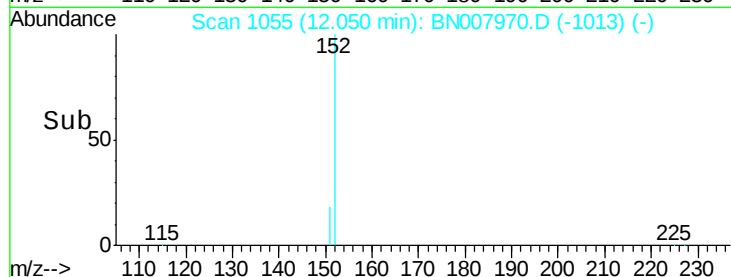
1500

1000

500

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.025 ng

RT: 12.12 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

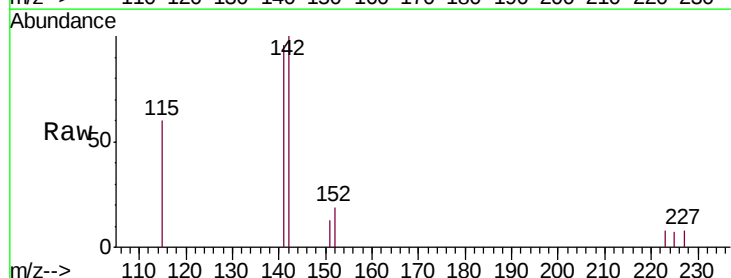
Tgt Ion:142 Resp: 1158

Ion Ratio Lower Upper

142 100

141 95.8 70.6 106.0

115 59.9 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

12.12

1000

800

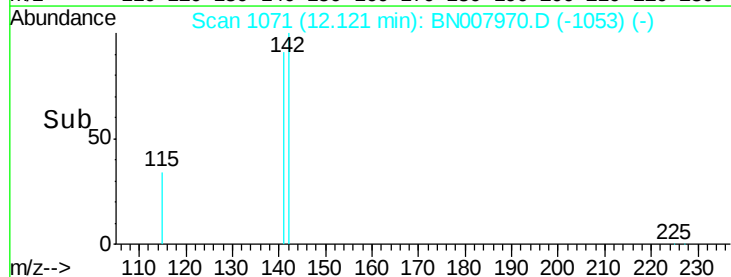
600

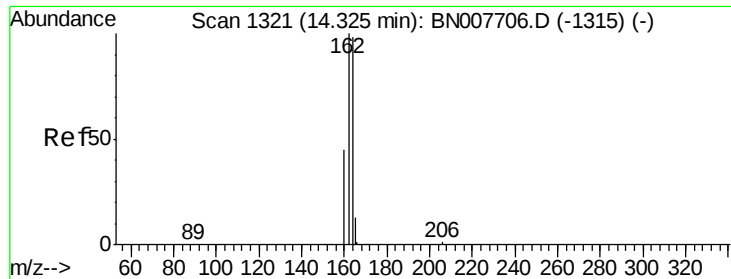
400

200

0

Time-->





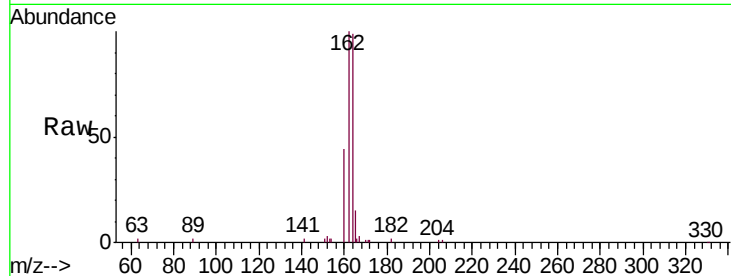
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW065-092519

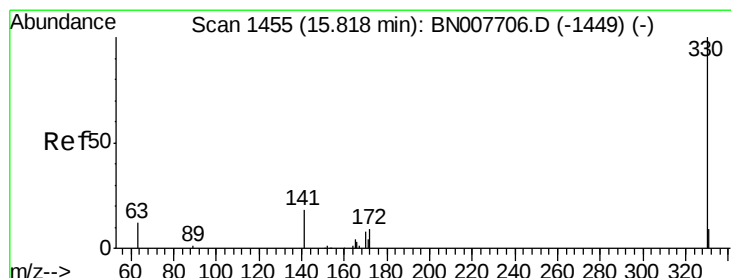
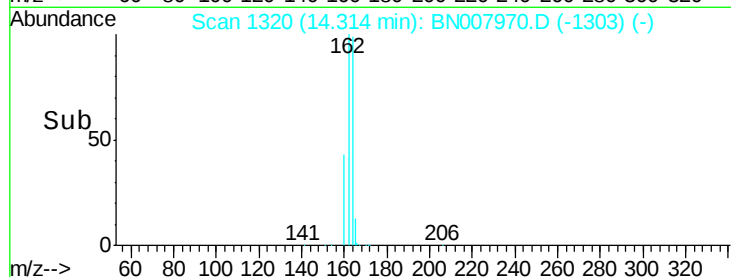
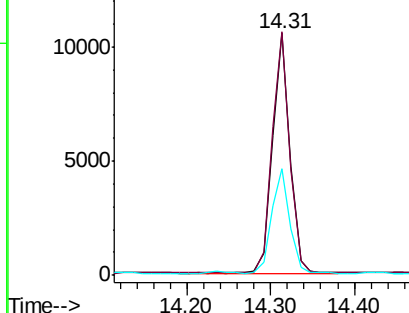
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.7	122.5
160	44.2	37.0	55.4

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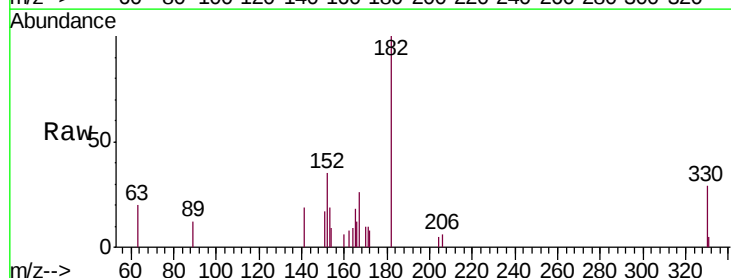


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

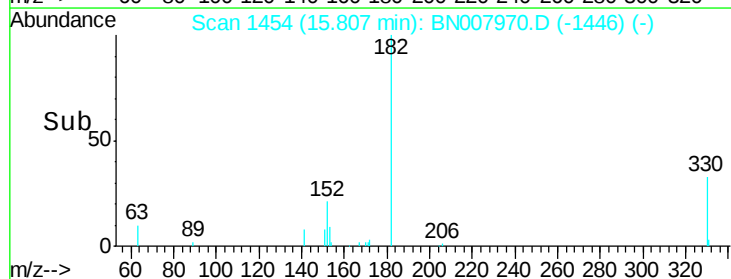
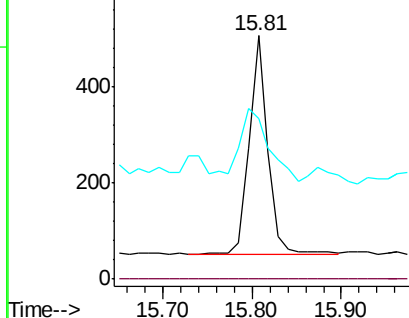


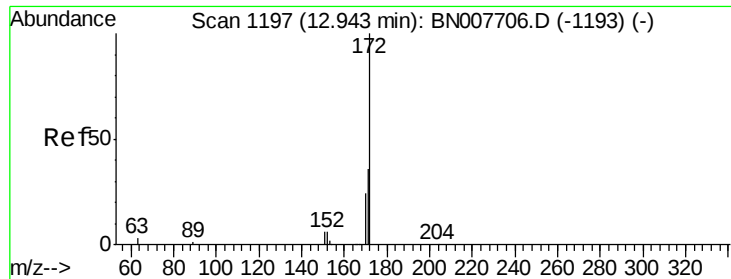
#14
2,4,6-Tribromophenol
Concen: 0.080 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	50.0	28.7	43.1#



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





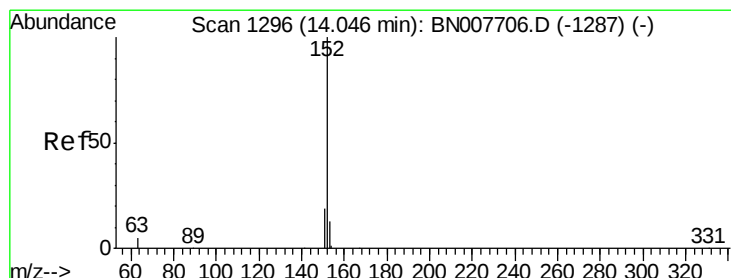
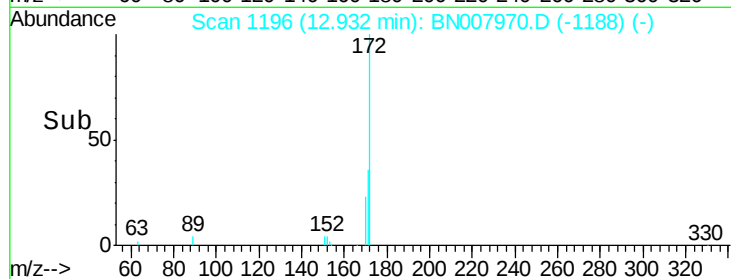
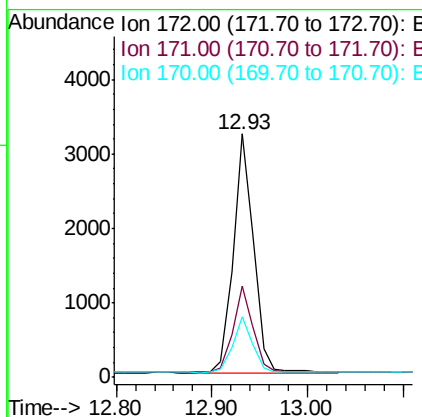
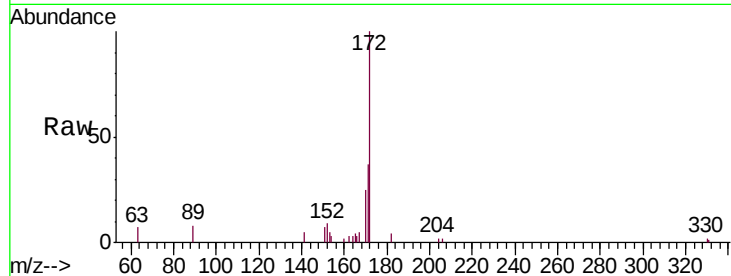
#15
2-Fluorobiphenyl
Concen: 0.075 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW065-092519

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	28.8	43.2
170	24.8	19.5	29.3

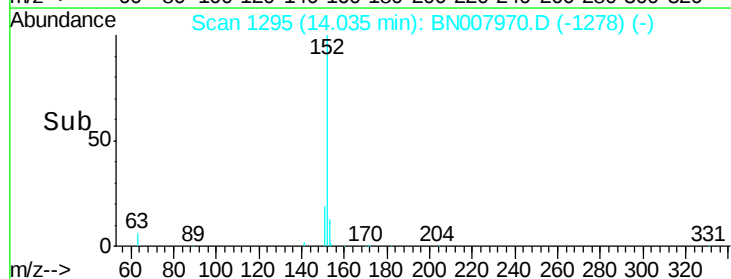
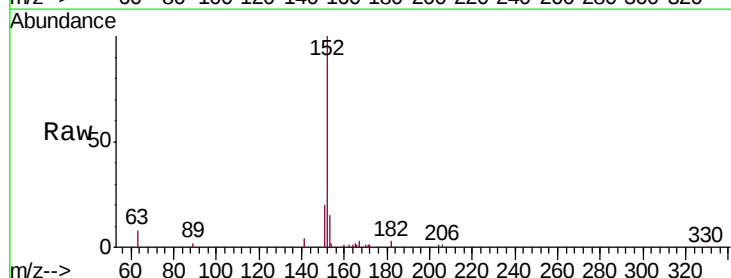
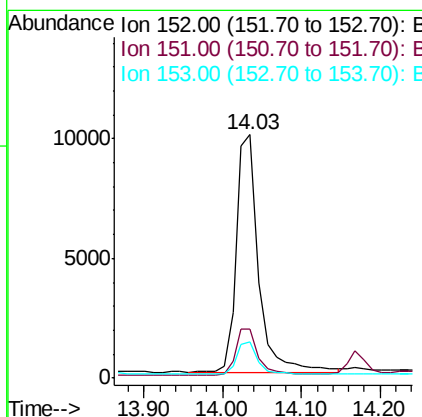
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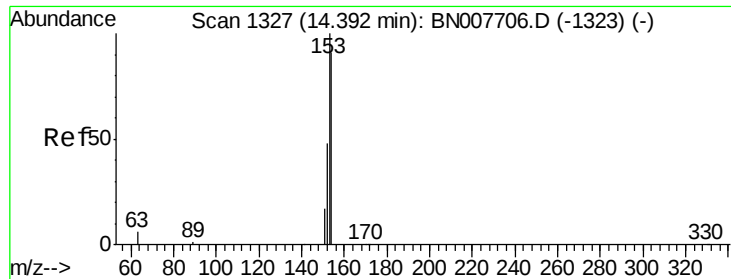
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#16
Acenaphthylene
Concen: 0.242 ng
RT: 14.03 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.5	23.3
153	13.3	10.4	15.6





#17

Acenaphthene

Concen: 0.082 ng

RT: 14.37 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BN007970.D

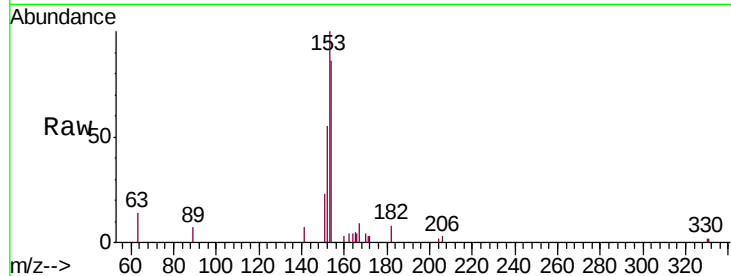
Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

ClientSampleId :

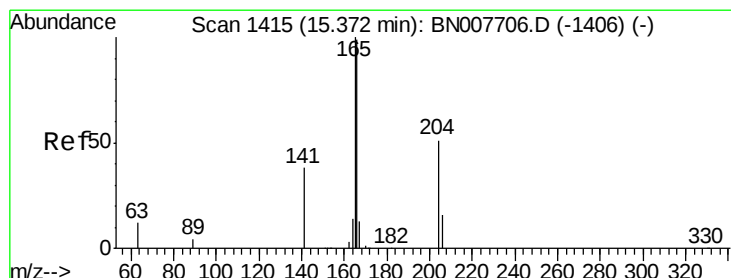
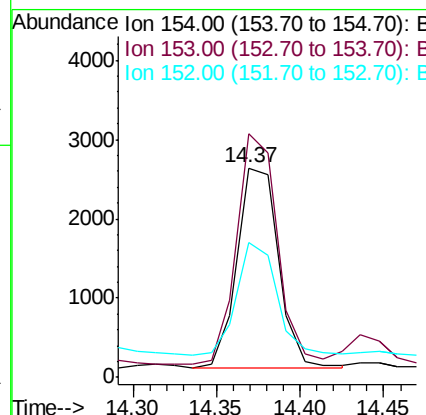
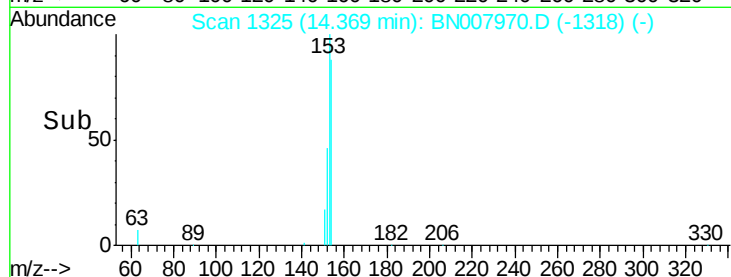
EXT-024-SW065-092519



Tgt Ion:	154	Resp:	4312
Ion Ratio	Lower	Upper	
154	100		
153	112.5	87.0	130.4
152	54.2	42.7	64.1

Manual Integrations
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mohammad
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#18

Fluorene

Concen: 0.102 ng

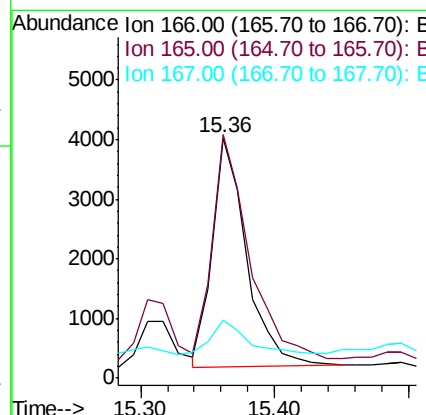
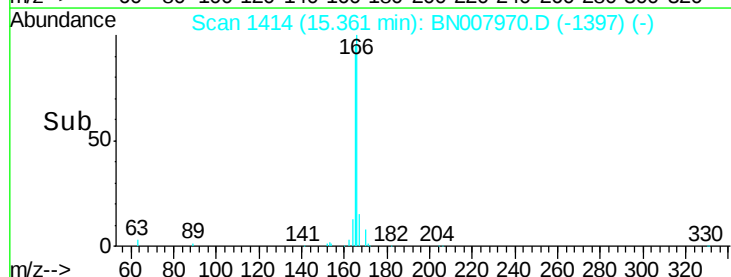
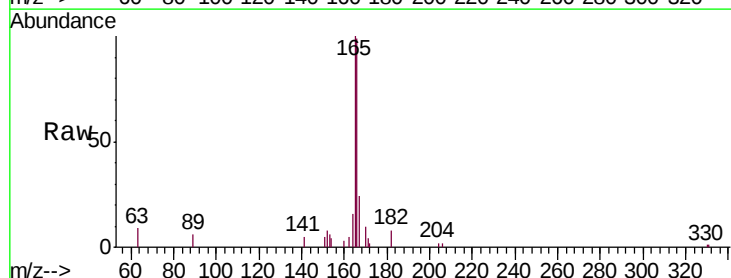
RT: 15.36 min Scan# 1414

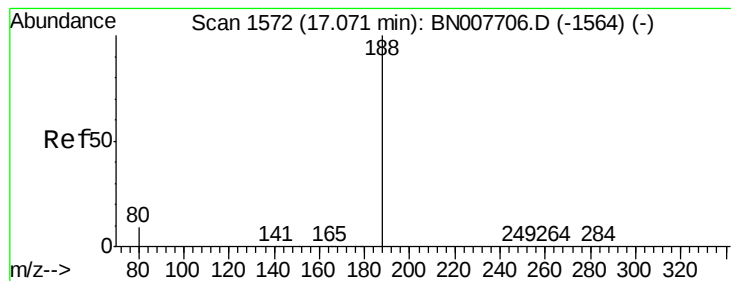
Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	166	Resp:	6830
Ion Ratio	Lower	Upper	
166	100		
165	107.0	78.0	117.0
167	16.5	10.9	16.3#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.06 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

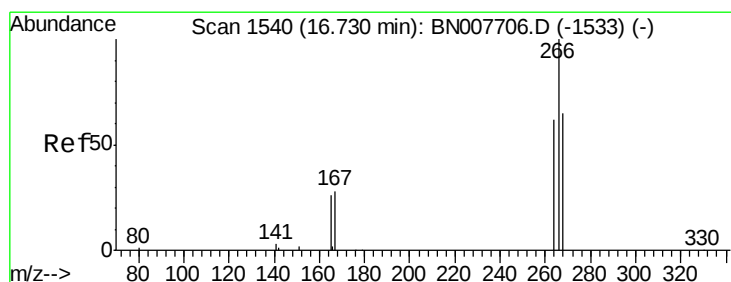
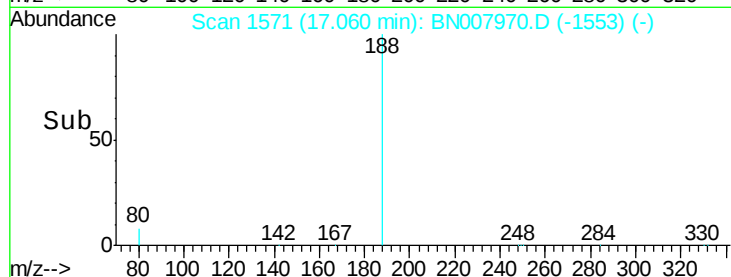
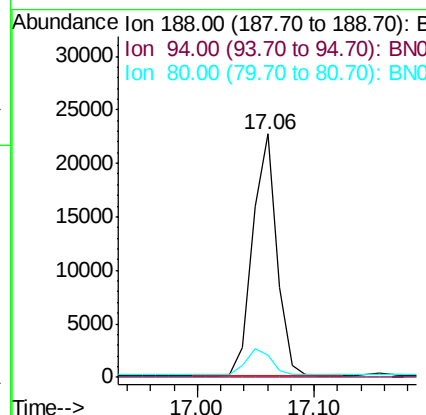
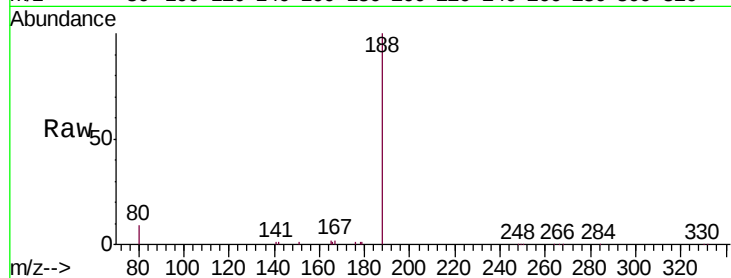
ClientSampleId :

EXT-024-SW065-092519

Tgt Ion:	188	Resp:	32380
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.2	7.4	11.2

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#22

Pentachlorophenol

Concen: 0.031 ng

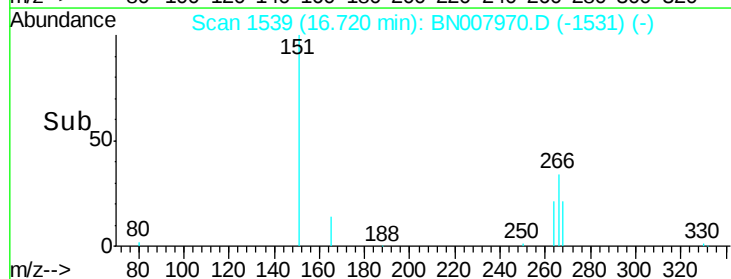
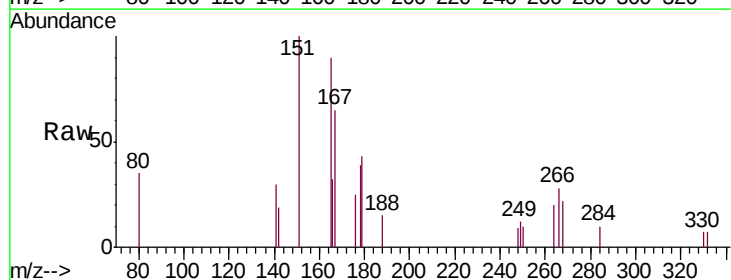
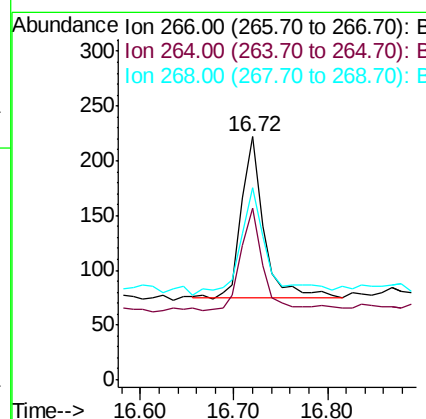
RT: 16.72 min Scan# 1539

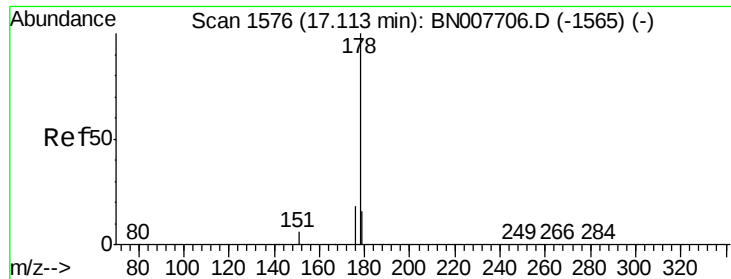
Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	266	Resp:	242
Ion Ratio	Lower	Upper	
266	100		
264	70.7	50.0	75.0
268	79.3	54.2	81.4





#23

Phenanthrene

Concen: 2.166 ng

RT: 17.10 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

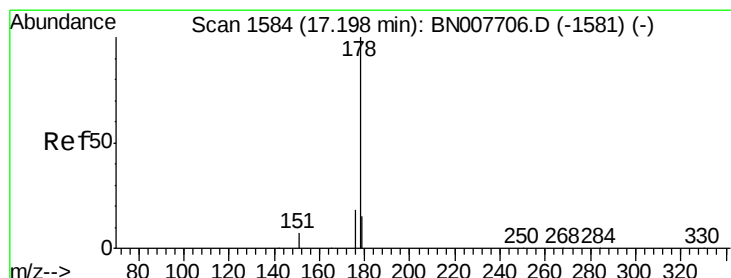
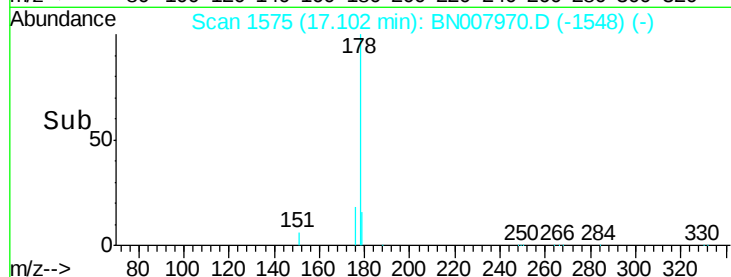
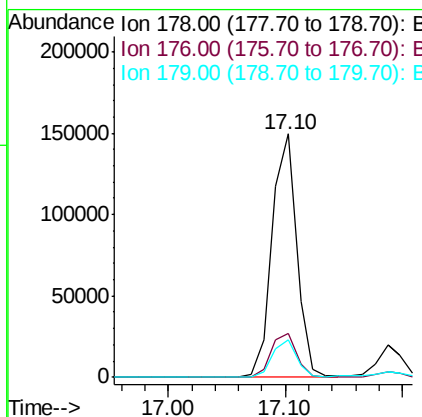
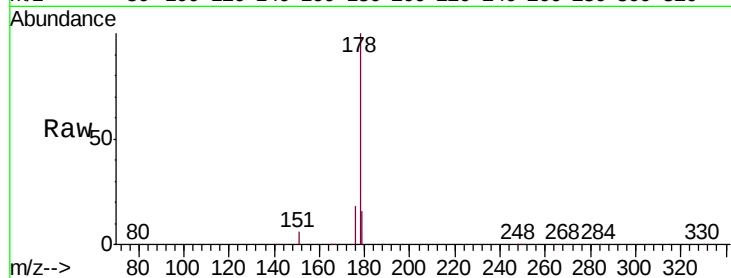
ClientSampleId :

EXT-024-SW065-092519

Tgt Ion:	178	Resp:	218471
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.9	22.3
179	15.4	12.5	18.7

Manual Integrations
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#24

Anthracene

Concen: 0.302 ng

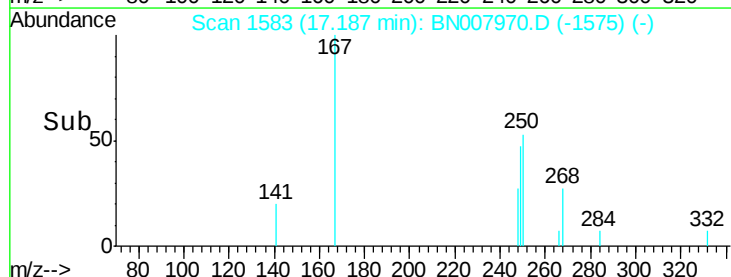
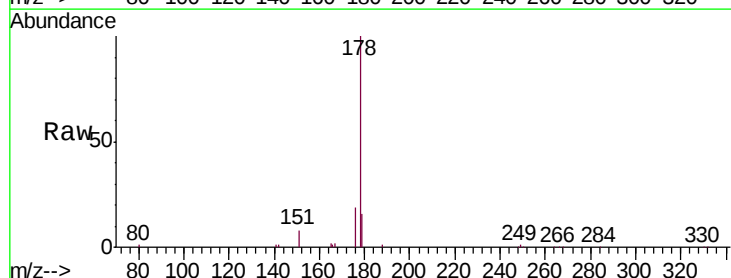
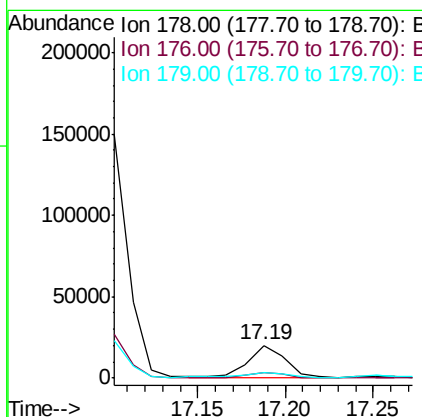
RT: 17.19 min Scan# 1583

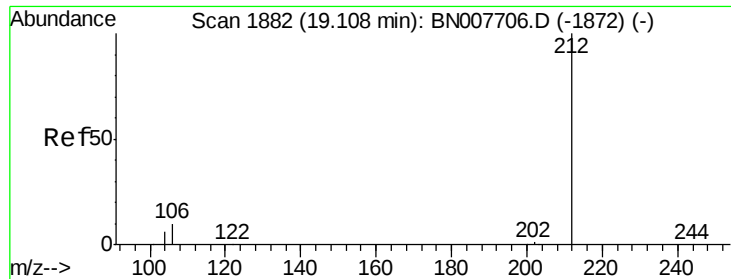
Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	178	Resp:	27537
Ion Ratio	Lower	Upper	
178	100		
176	17.8	14.6	21.8
179	20.5	12.2	18.4#





#25

Fluoranthene-d10

Concen: 0.075 ng

RT: 19.09 min Scan# 1879

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

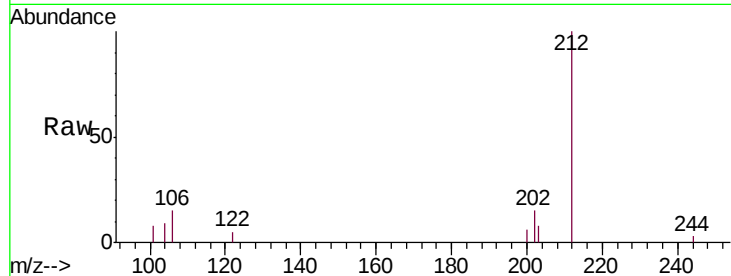
ClientSampleId :

EXT-024-SW065-092519

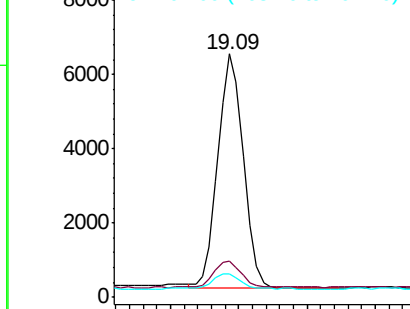
Tgt Ion:	212	Resp:	8191
Ion Ratio	Lower	Upper	
212	100		
106	12.3	9.4	14.0
104	7.4	5.3	7.9

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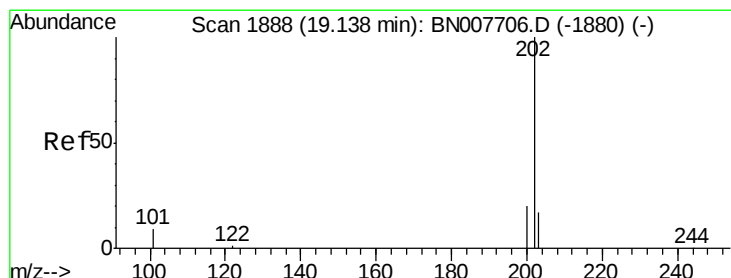
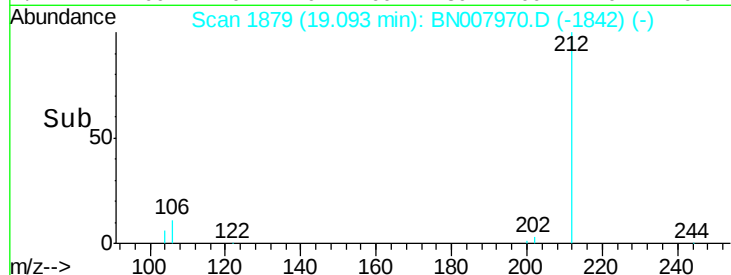
mohammad
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Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



Time-->



#26

Fluoranthene

Concen: 4.678 ng

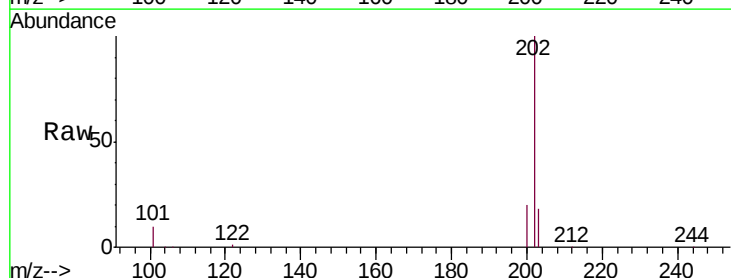
RT: 19.12 min Scan# 1885

Delta R.T. -0.02 min

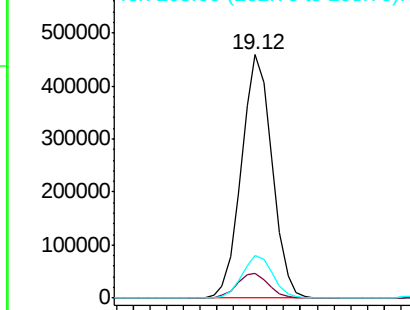
Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

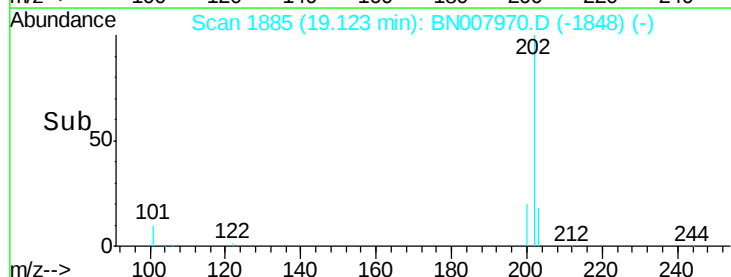
Tgt Ion:	202	Resp:	586768
Ion Ratio	Lower	Upper	
202	100		
101	10.3	8.4	12.6
203	17.6	13.8	20.8

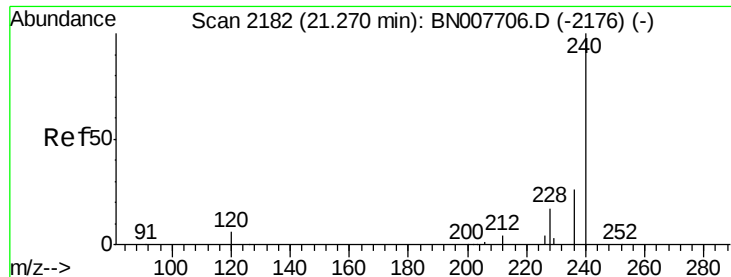


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





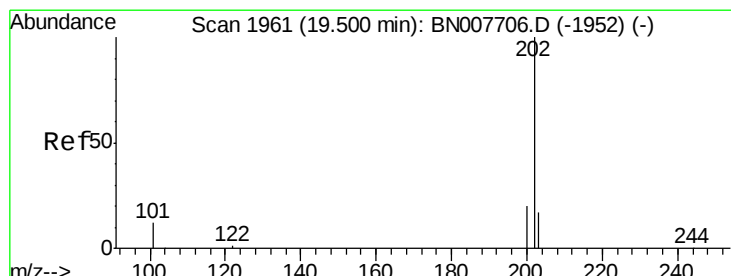
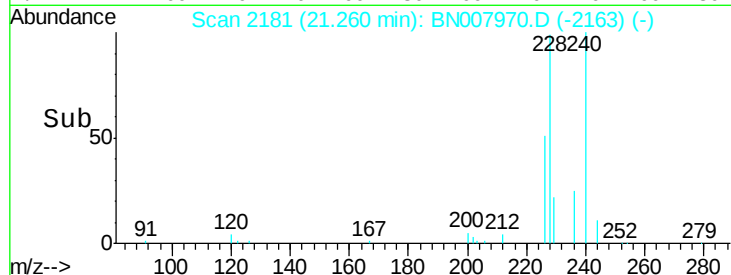
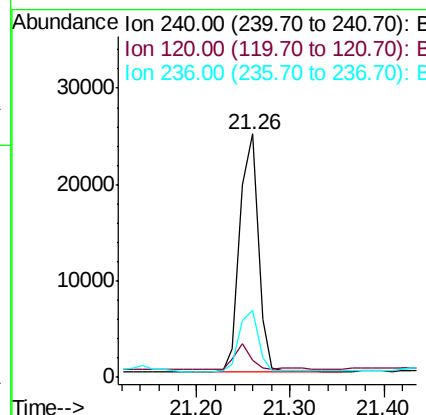
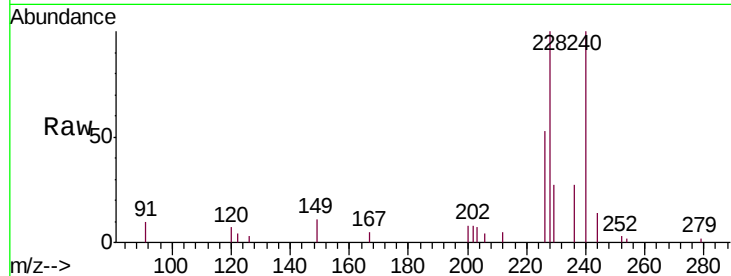
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.26 min Scan# 2181
Delta R.T. -0.01 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW065-092519

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.2	5.4	8.2
236	27.3	21.0	31.4

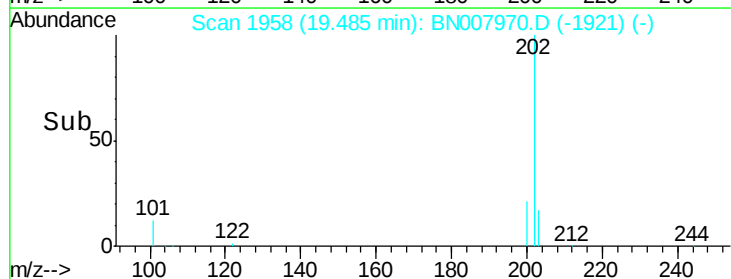
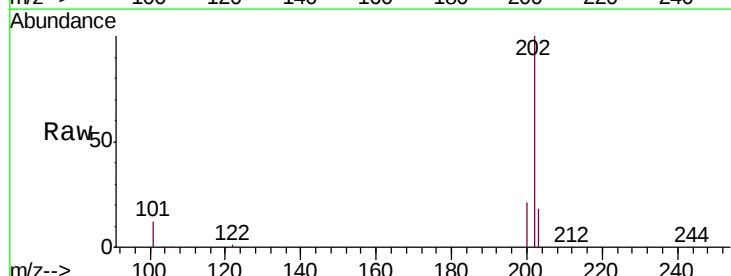
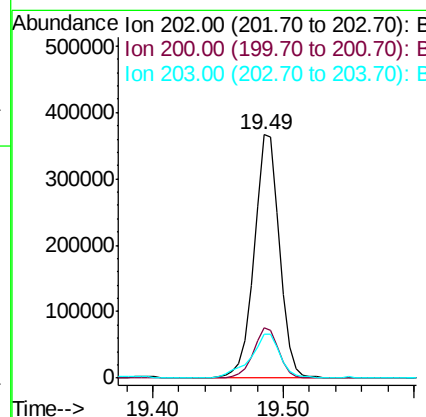
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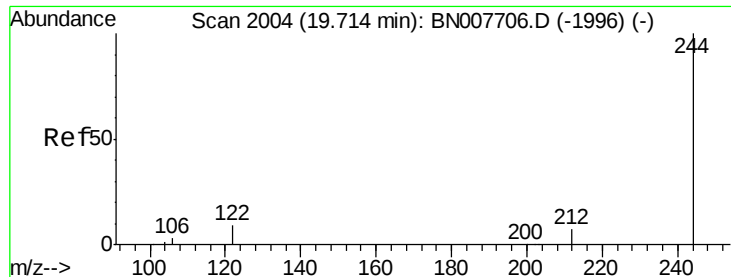
mohammad
10/4/2019 8:16:29 AM



#28
Pyrene
Concen: 4.227 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.02 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.4	24.6
203	21.0	14.1	21.1





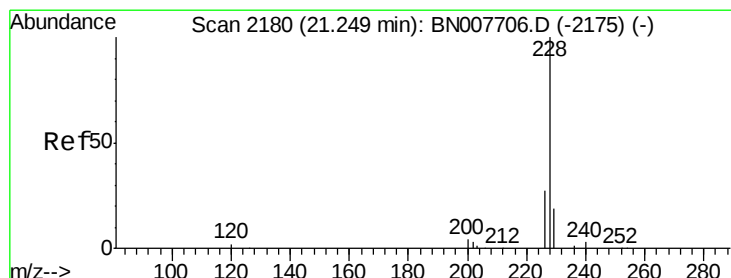
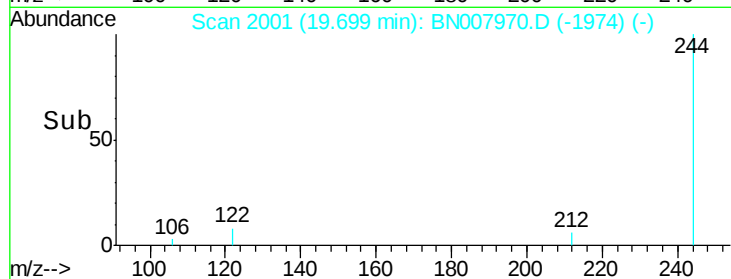
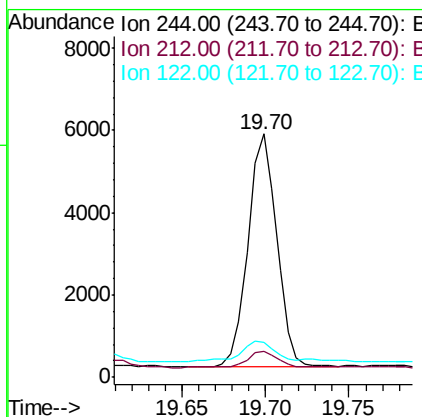
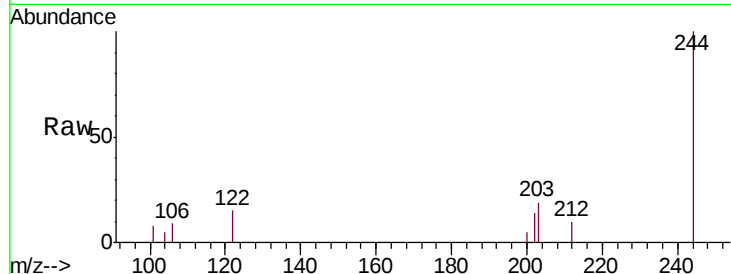
#29
 Terphenyl-d14
 Concen: 0.080 ng
 RT: 19.70 min Scan# 2001
 Delta R.T. -0.01 min
 Lab File: BN007970.D
 Acq: 02 Oct 2019 17:53

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW065-092519

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	5.9	8.9#
122	14.5	7.4	11.2#

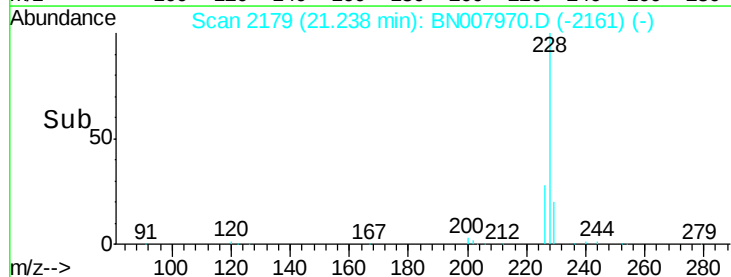
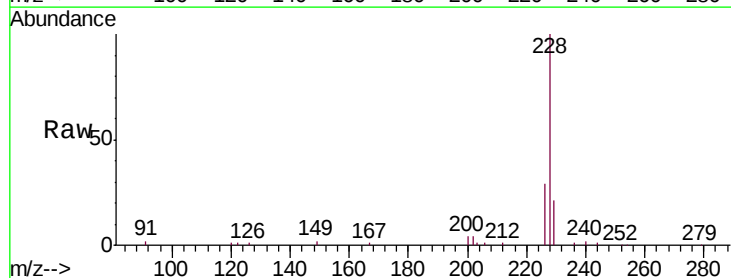
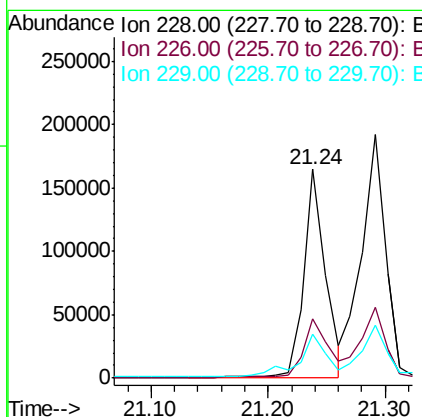
Manual Integrations
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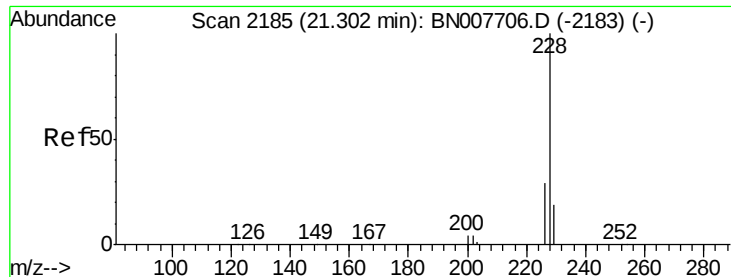
mohammad
 10/4/2019 8:16:29 AM



#30
 Benzo(a)anthracene
 Concen: 1.666 ng
 RT: 21.24 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: BN007970.D
 Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.1	33.1
229	20.8	15.8	23.6





#31

Chrysene

Concen: 2.199 ng

RT: 21.29 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

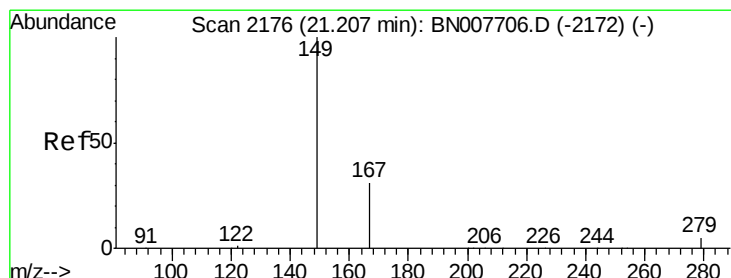
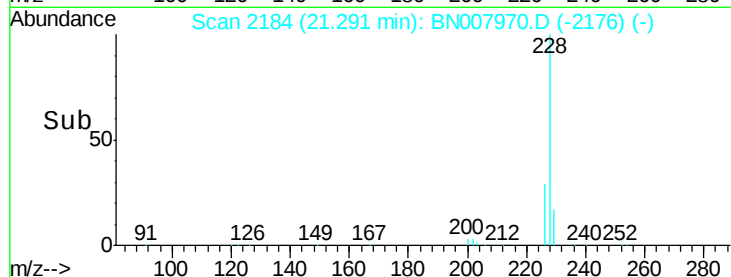
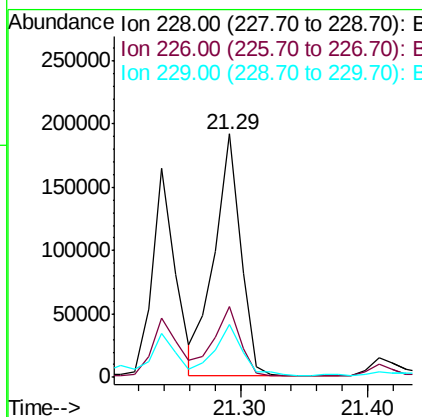
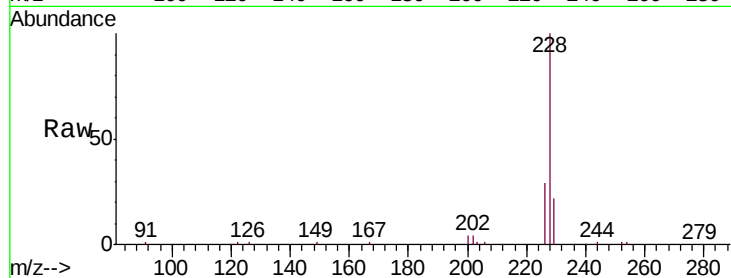
ClientSampleId :

EXT-024-SW065-092519

Tgt Ion:	228	Resp:	271432
Ion Ratio	Lower	Upper	
228	100		
226	29.2	23.9	35.9
229	21.7	15.8	23.6

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.342 ng

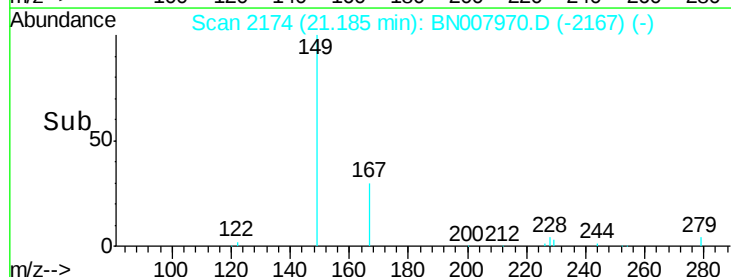
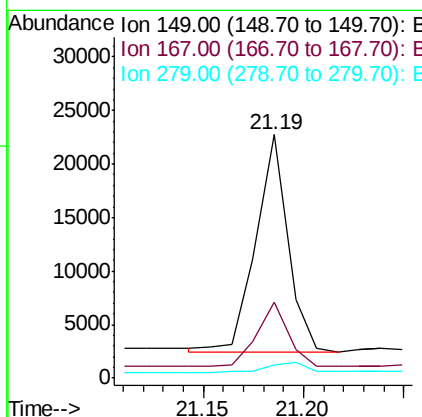
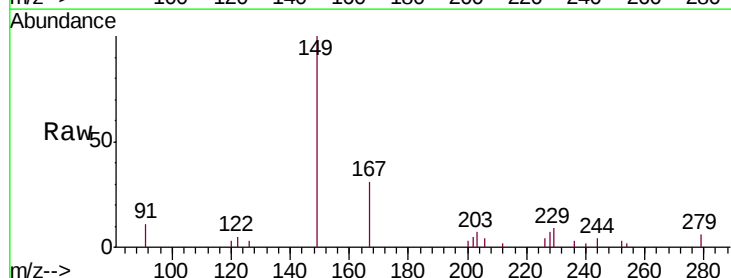
RT: 21.19 min Scan# 2174

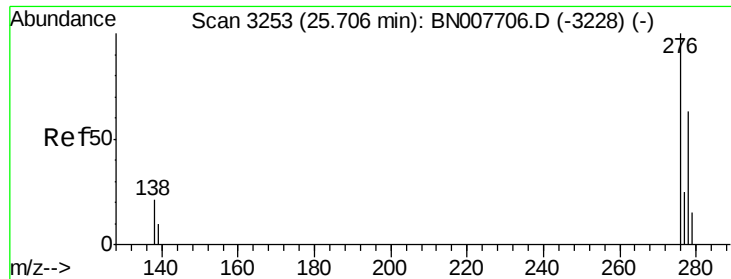
Delta R.T. -0.02 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	149	Resp:	22276
Ion Ratio	Lower	Upper	
149	100		
167	28.9	23.7	35.5
279	5.6	4.2	6.2





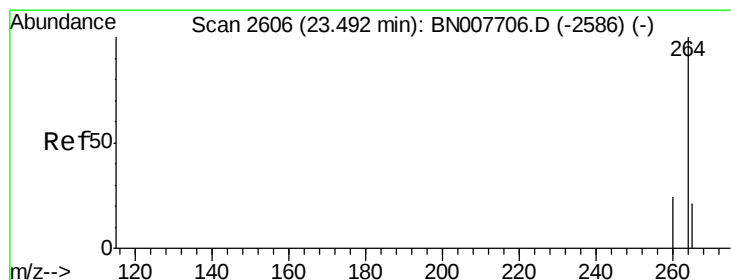
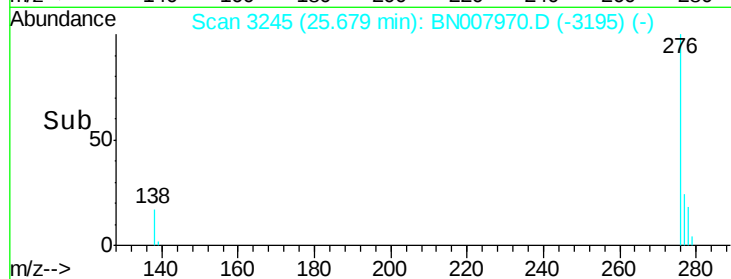
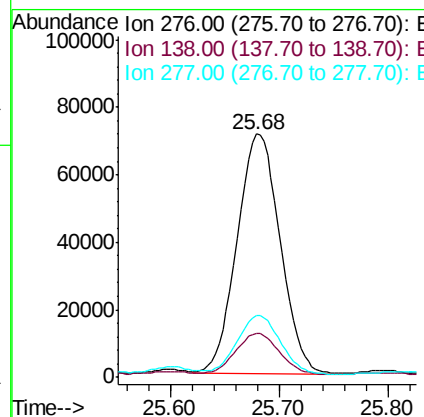
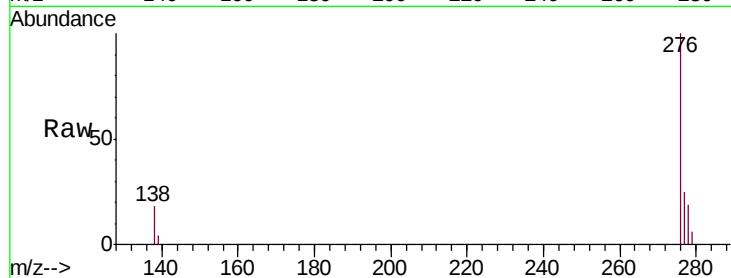
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.266 ng
 RT: 25.68 min Scan# 3245
 Delta R.T. -0.03 min
 Lab File: BN007970.D
 Acq: 02 Oct 2019 17:53

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW065-092519

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	195657		
138	17.2		17.1	25.7
277	24.4		20.0	30.0

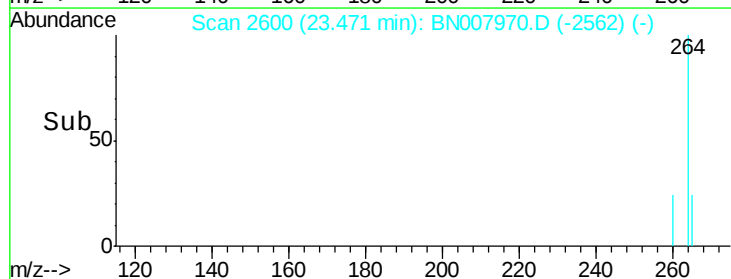
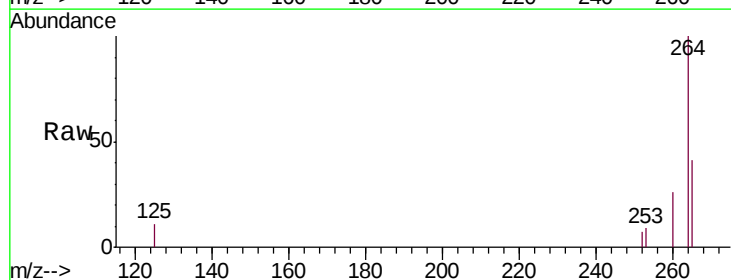
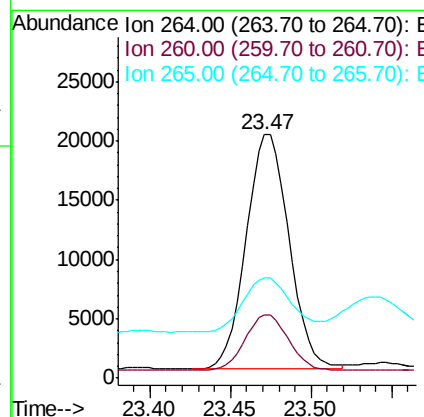
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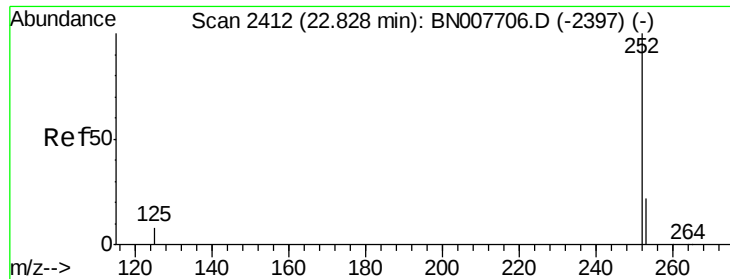
mohammad
 10/4/2019 8:16:29 AM



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.47 min Scan# 2600
 Delta R.T. -0.02 min
 Lab File: BN007970.D
 Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	36704		
260	26.2		19.3	28.9
265	41.0		26.9	40.3#





#35

Benzo(b)fluoranthene

Concen: 3.038 ng

RT: 22.81 min Scan# 2408

Delta R.T. -0.01 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

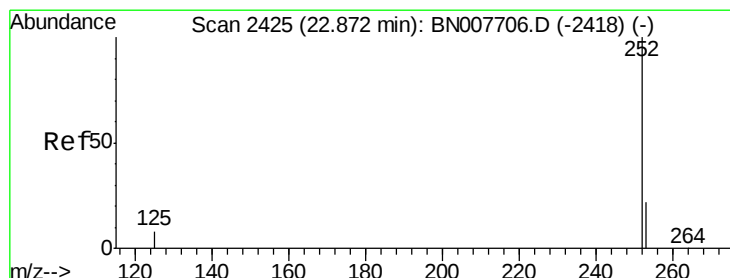
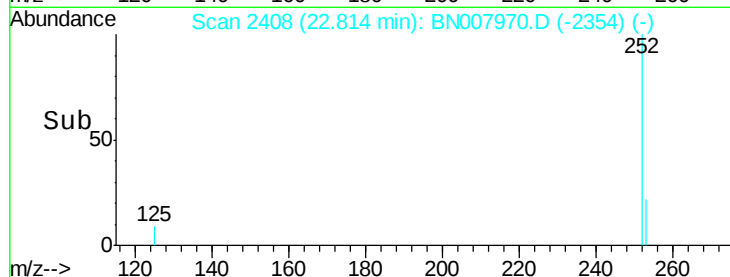
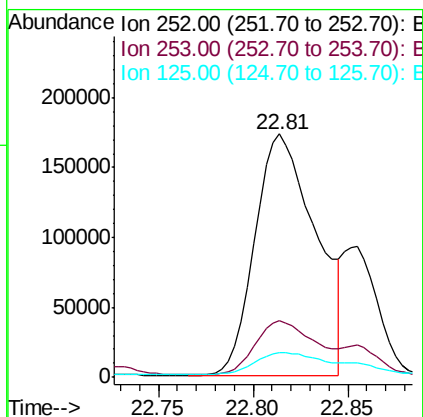
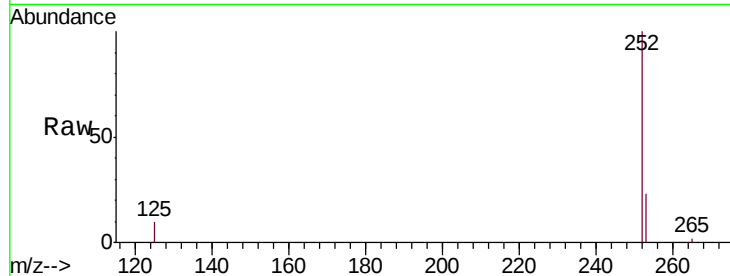
ClientSampleId :

EXT-024-SW065-092519

Tgt Ion:	252	Resp:	387054
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.3	27.5
125	10.2	8.2	12.4

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#36

Benzo(k)fluoranthene

Concen: 0.919 ng m

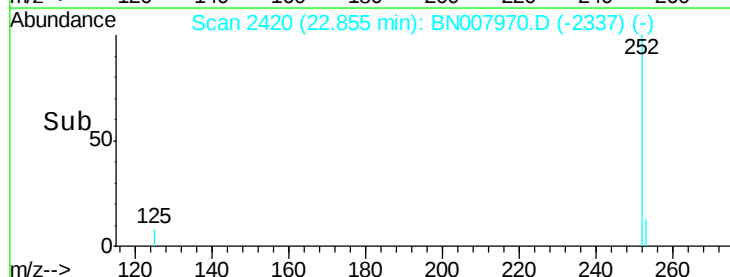
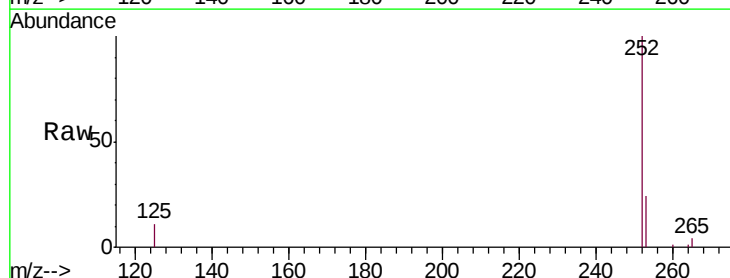
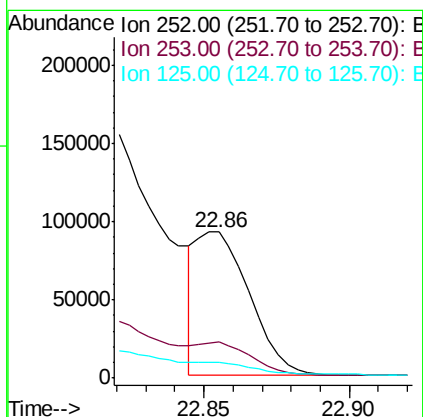
RT: 22.86 min Scan# 2420

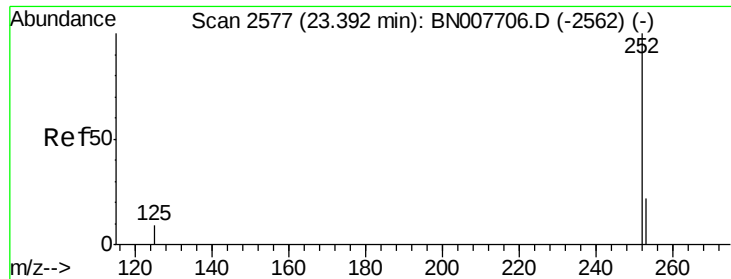
Delta R.T. -0.02 min

Lab File: BN007970.D

Acq: 02 Oct 2019 17:53

Tgt Ion:	252	Resp:	115850
Ion Ratio	Lower	Upper	
252	100		
253	24.4	18.5	27.7
125	10.7	8.4	12.6





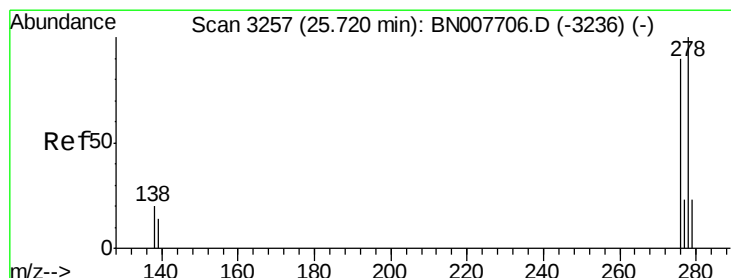
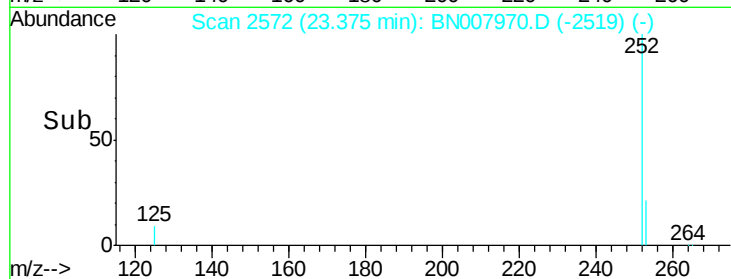
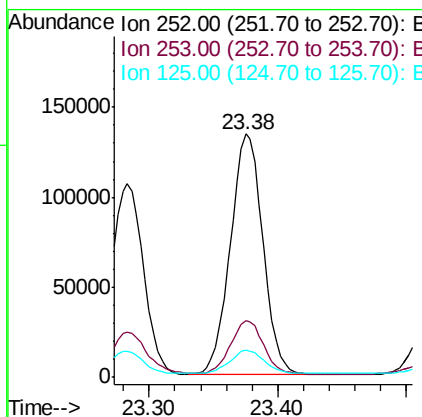
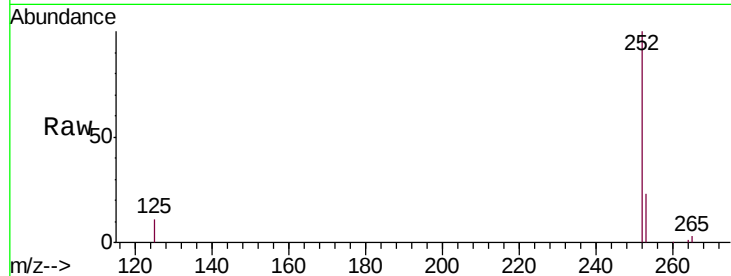
#37
Benzo(a)pyrene
Concen: 1.966 ng
RT: 23.38 min Scan# 2572
Delta R.T. -0.02 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW065-092519

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.6	27.8
125	11.0	9.4	14.0

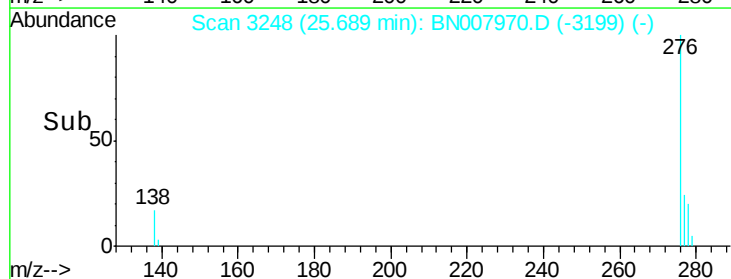
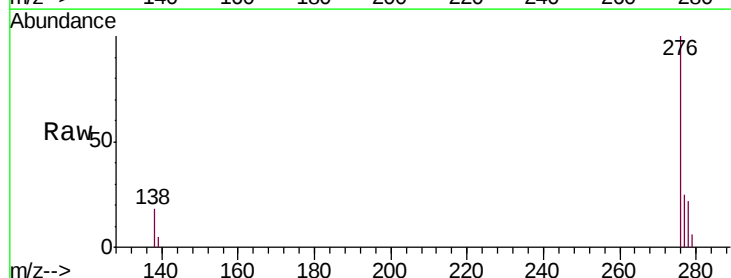
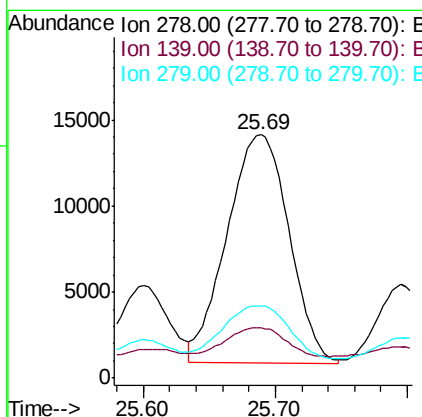
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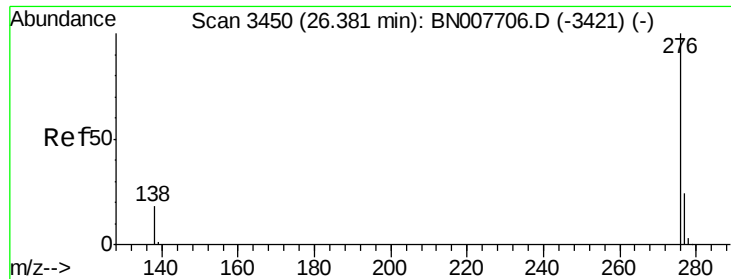
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#38
Dibenzo(a,h)anthracene
Concen: 0.355 ng
RT: 25.69 min Scan# 3248
Delta R.T. -0.03 min
Lab File: BN007970.D
Acq: 02 Oct 2019 17:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.9	11.8	17.6#
279	29.6	19.4	29.2#





#39

Benzo(g,h,i)perylene

Concen: 1.601 ng

RT: 26.35 min Scan# 3442

Delta R.T. -0.03 min

Lab File: BN007970.D

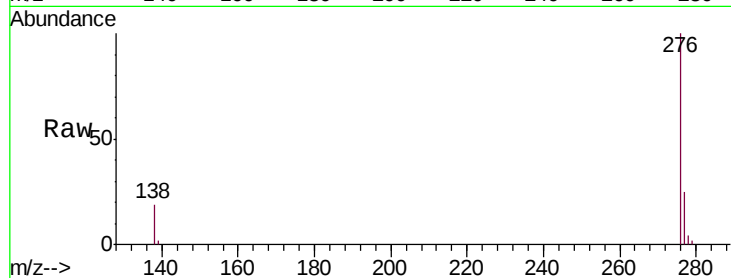
Acq: 02 Oct 2019 17:53

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW065-092519



Tgt	Ion	276	Resp	194162
Ion	Ratio	Lower	Upper	
276	100			
277	25.0	19.8	29.8	
138	18.8	15.1	22.7	

Manual Integrations
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