

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007115.D
 Acq On : 13 Aug 2019 05:06
 Operator : HP/JU
 Sample : K4143-18
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-023-SW076-073019

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:52:26 AM

Quant Time: Aug 13 07:02:33 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Aug 10 21:44:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9584	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37383	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21853	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	52000	0.40	ng	0.00
26) Chrysene-d12	21.05	240	49925	0.40	ng	-0.01
32) Perylene-d12	23.15	264	55088	0.40	ng	-0.02

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	5039	0.22	ng	0.00
4) Phenol-d6	6.61	99	6883	0.24	ng	0.00
7) Nitrobenzene-d5	8.56	82	5502	0.18	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12576	0.18	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2014	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3278	0.10	ng	0.00
24) Fluoranthene-d10	18.87	212	32741	0.18	ng	0.00
28) Terphenyl-d14	19.49	244	26019	0.19	ng	-0.01

Target Compounds

						Qvalue
8) Naphthalene	10.24	128	2243	0.021	ng	# 81
11) 2-Methylnaphthalene	11.87	142	1825	0.025	ng	# 83
15) Acenaphthylene	13.79	152	24623	0.216	ng	99
16) Acenaphthene	14.13	154	4136	0.057	ng	96
17) Fluorene	15.14	166	6667	0.061	ng	88
21) Pentachlorophenol	16.48	266	242	0.021	ng	# 89
22) Phenanthrene	16.87	178	183698	1.179	ng	100
23) Anthracene	16.95	178	25451	0.179	ng	# 94
25) Fluoranthene	18.90	202	425240	2.133	ng	100
27) Pyrene	19.26	202	373684	2.134	ng	# 96
29) Benzo(a)anthracene	21.02	228	167970	0.920	ng	94
30) Chrysene	21.08	228	220436	1.243	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	153677	0.786	ng	99
33) Benzo(b)fluoranthene	22.53	252	321934	1.704	ng	98
34) Benzo(k)fluoranthene	22.57	252	91932m	0.493	ng	
35) Benzo(a)pyrene	23.07	252	189742	1.108	ng	98
36) Dibenzo(a,h)anthracene	25.24	278	36571	0.214	ng	# 75
37) Benzo(a,h,i)perylene	25.86	276	157421	0.896	ng	98

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

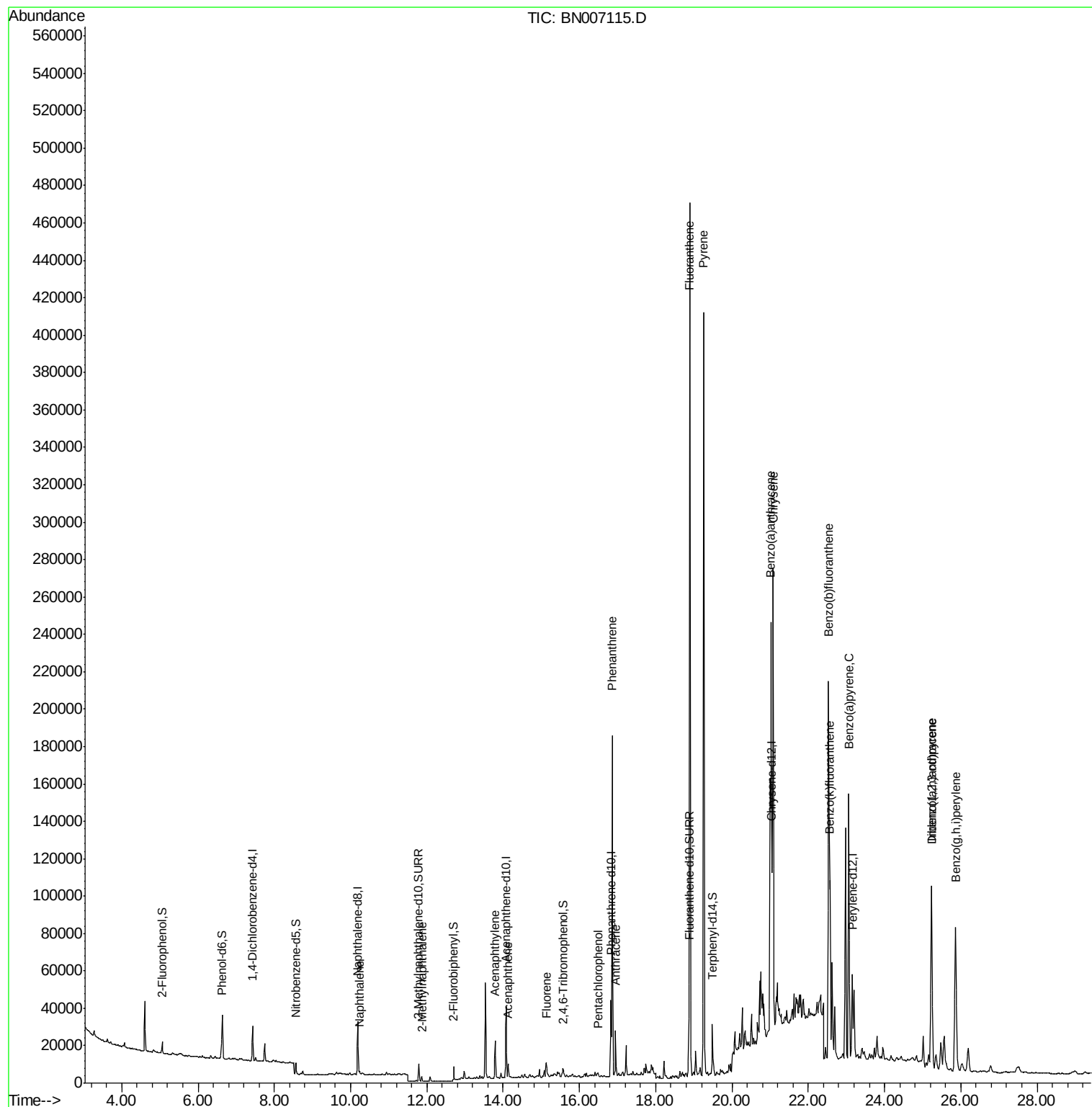
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
Data File : BN007115.D
Acq On : 13 Aug 2019 05:06
Operator : HP/JU
Sample : K4143-18
Misc :
ALS Vial : 24 Sample Multiplier: 1

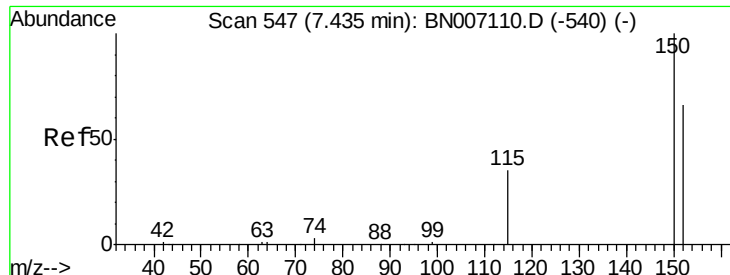
Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

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8/14/2019 2:52:26 AM

Quant Time: Aug 13 07:02:33 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 10 21:44:50 2019
Response via : Initial Calibration





#1

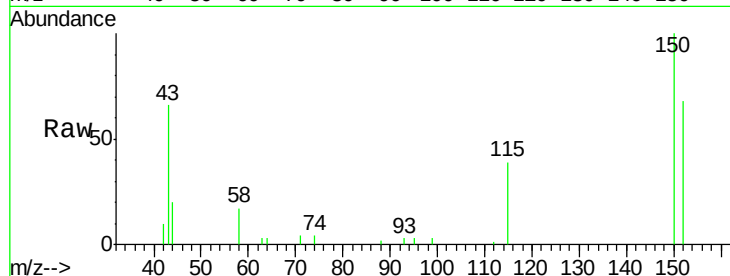
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
152	100		
150	147.4	121.7	182.5
115	57.0	46.2	69.4

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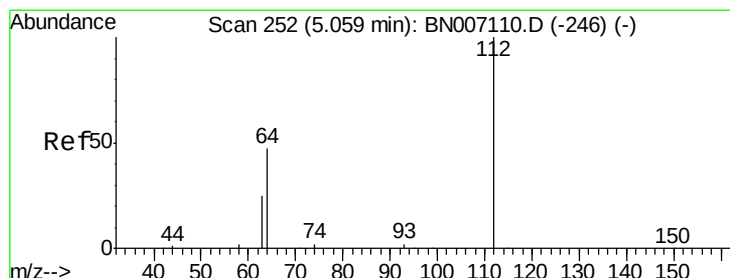
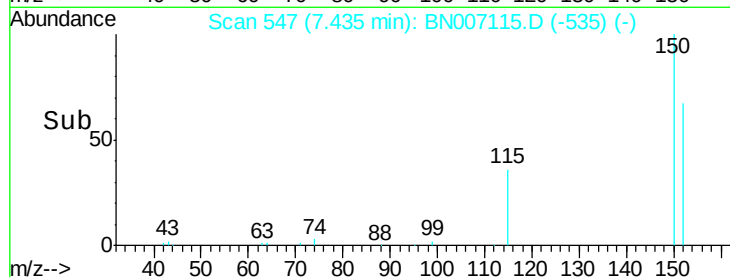
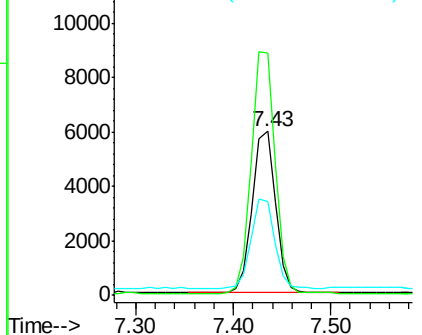


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

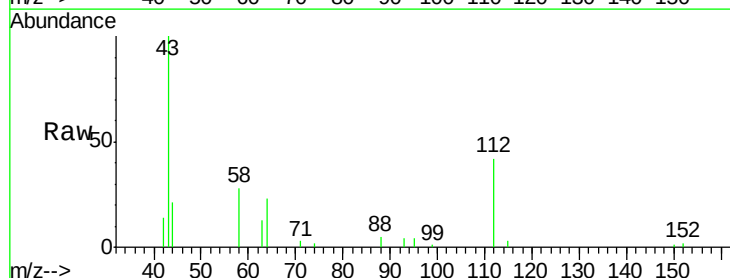
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.219 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.7	42.6	63.8
63	27.4	22.2	33.2

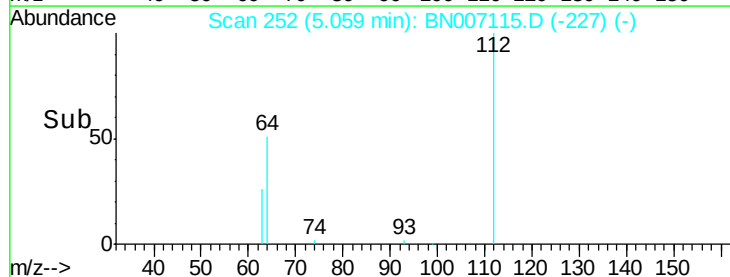
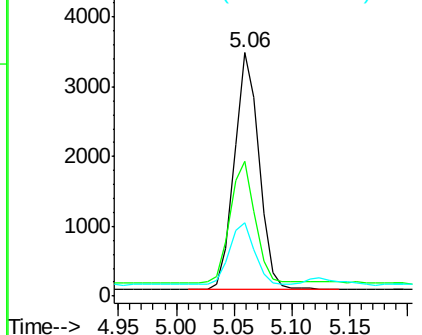


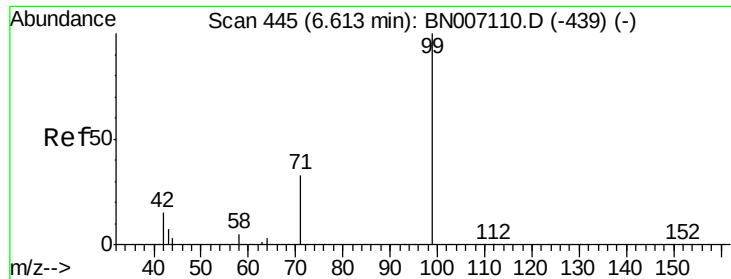
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.241 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

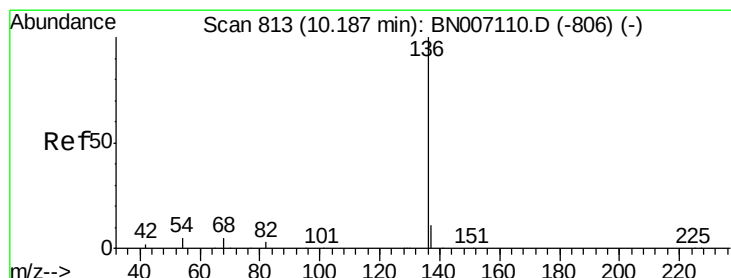
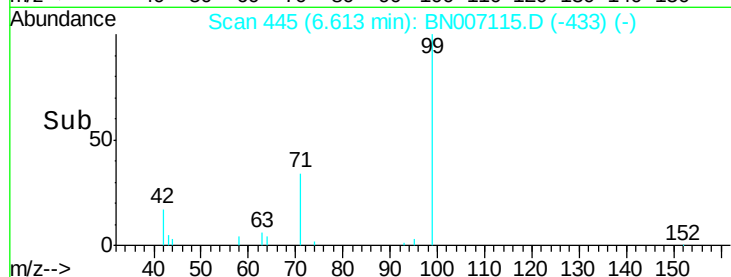
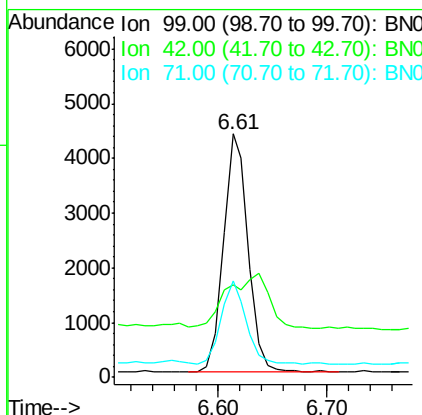
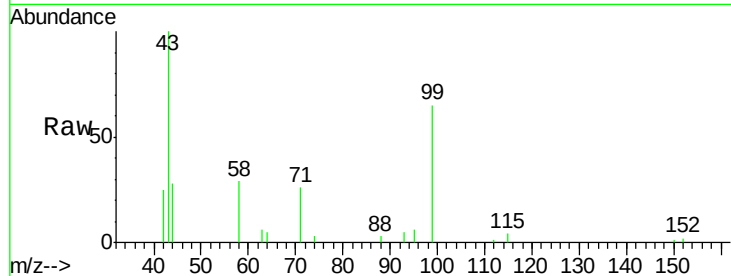
ClientSampleId :

EXT-023-SW076-073019

Tot Ion:	99	Resp:	6883
Ion Ratio	Lower	Upper	
99	100		
42	0.0	15.8	23.6#
71	34.9	27.0	40.4

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#6

Naphthalene-d8

Concen: 0.400 ng

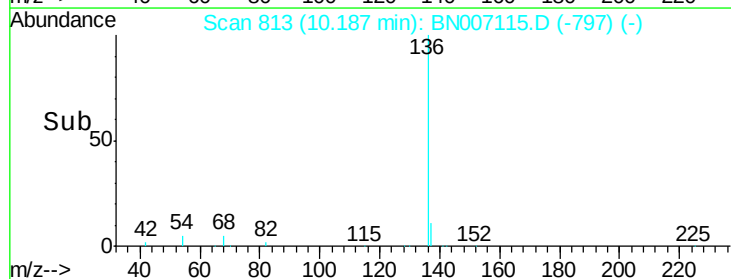
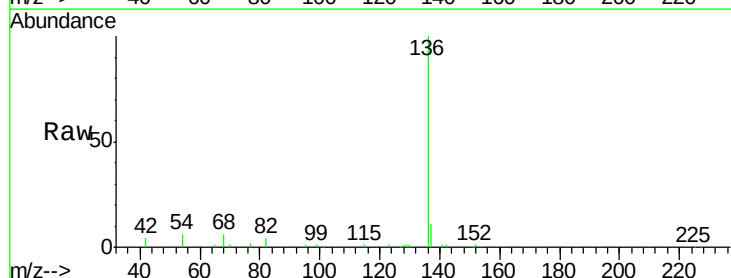
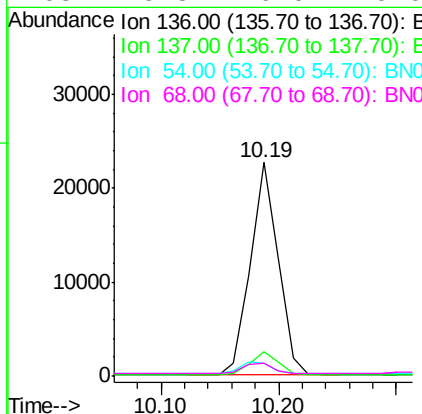
RT: 10.19 min Scan# 813

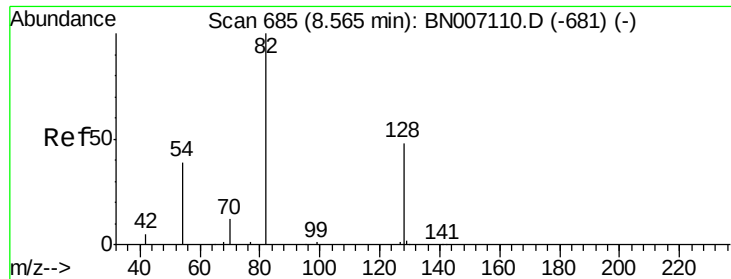
Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Tgt Ion:	136	Resp:	37383
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.4	14.0
54	6.2	6.6	9.8#
68	5.8	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.183 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

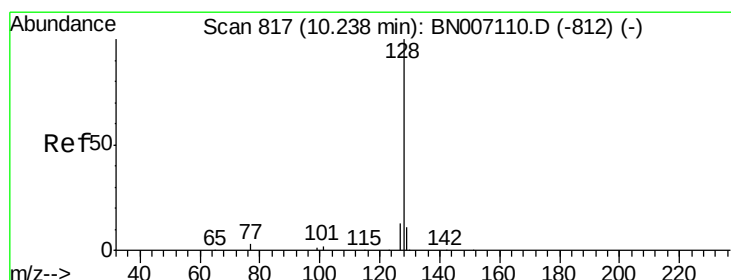
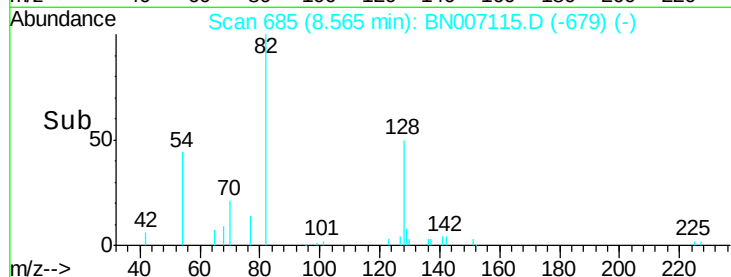
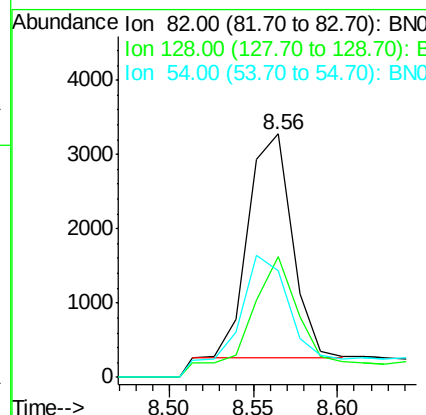
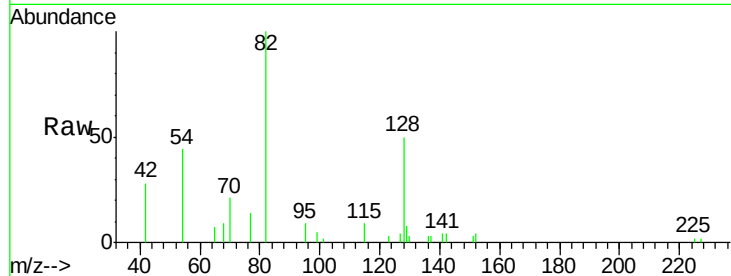
ClientSampleId :

EXT-023-SW076-073019

Tot Ion:	82	Resp:	5502
Ion Ratio	Lower	Upper	
82	100		
128	49.7	34.6	51.8
54	44.0	36.2	54.4

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#8

Naphthalene

Concen: 0.021 ng

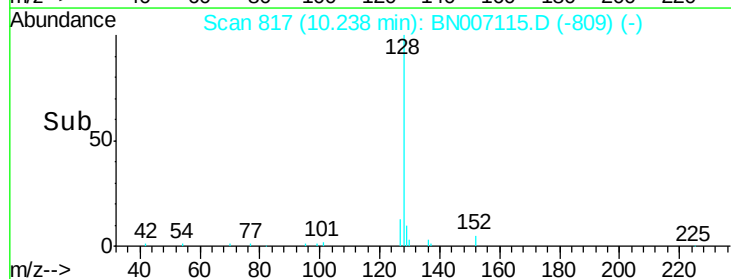
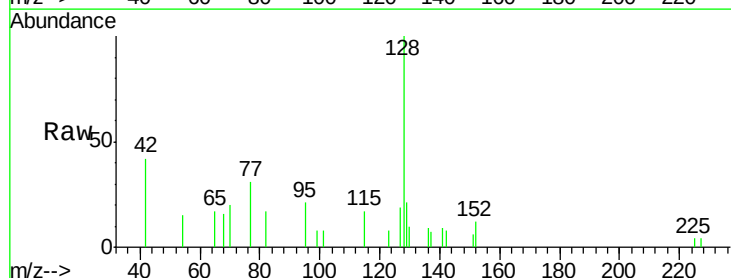
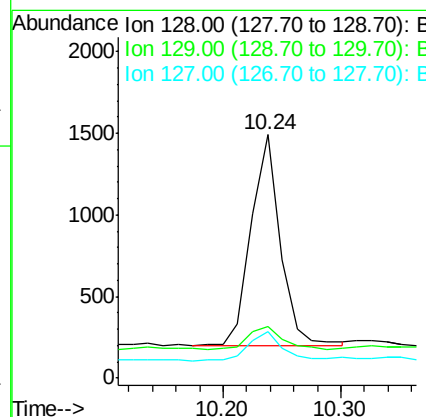
RT: 10.24 min Scan# 817

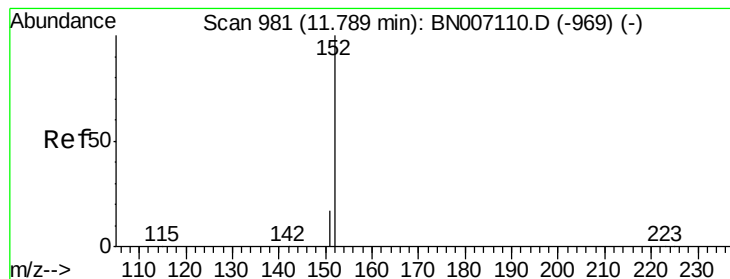
Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Tgt Ion:	128	Resp:	2243
Ion Ratio	Lower	Upper	
128	100		
129	21.4	9.4	14.2#
127	19.2	11.0	16.6#





#10

2-Methylnaphthalene-d10

Concen: 0.180 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

ClientSampleId :

EXT-023-SW076-073019

Tot Ion:152 Resp: 12576

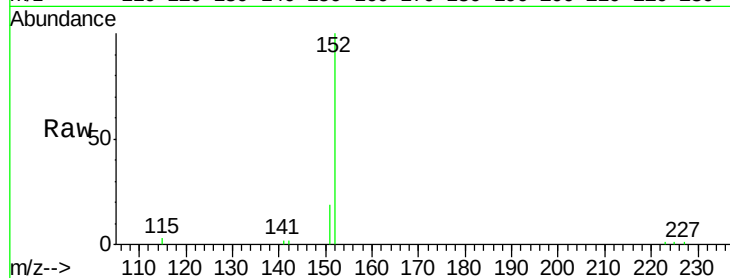
Ion Ratio Lower Upper

152 100

151 19.4 15.5 23.3

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

8000

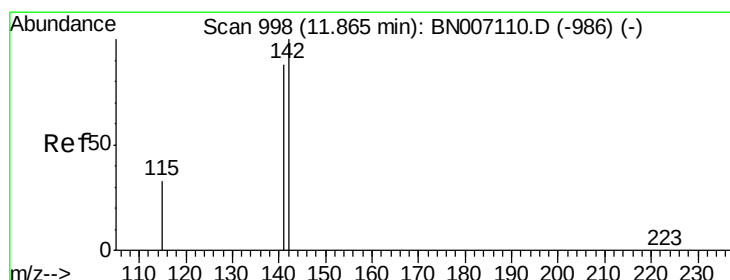
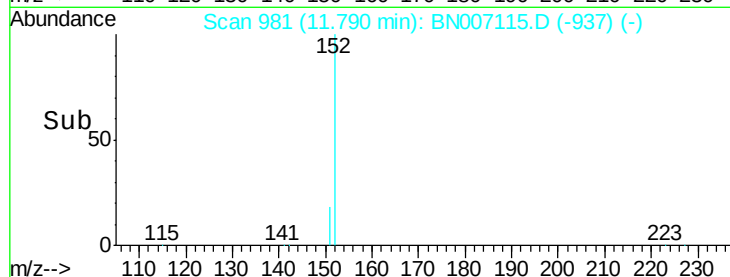
6000

4000

2000

0

Time-->



#11

2-Methylnaphthalene

Concen: 0.025 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

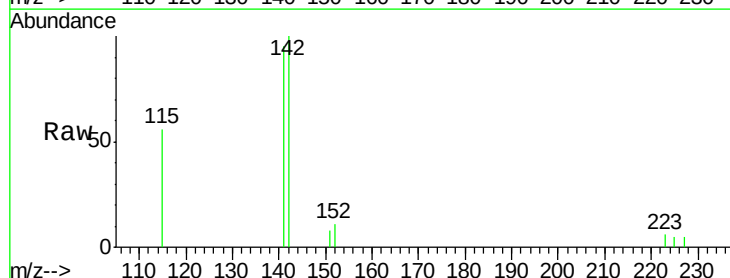
Tgt Ion:142 Resp: 1825

Ion Ratio Lower Upper

142 100

141 94.6 69.0 103.6

115 55.7 27.1 40.7#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.87

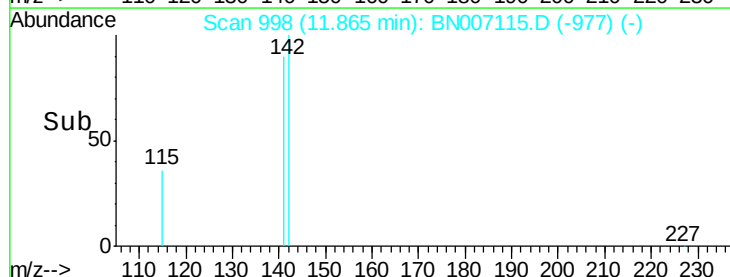
1500

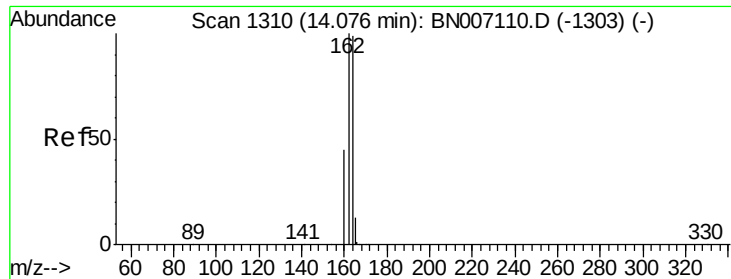
1000

500

0

Time-->





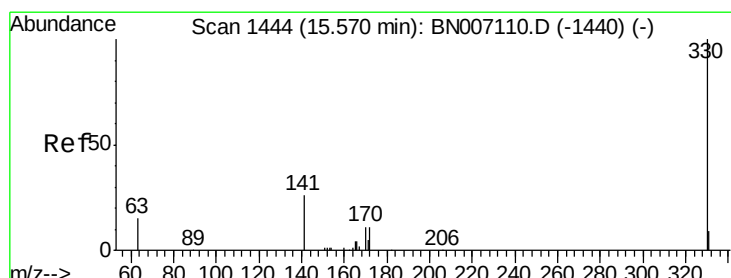
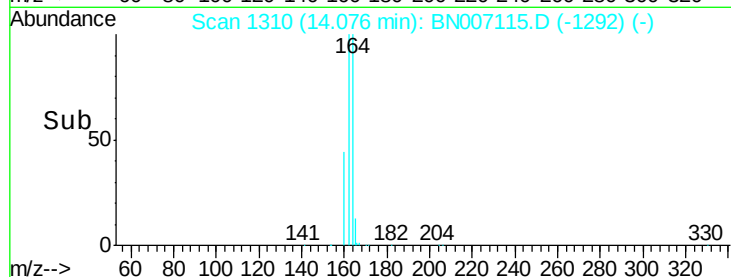
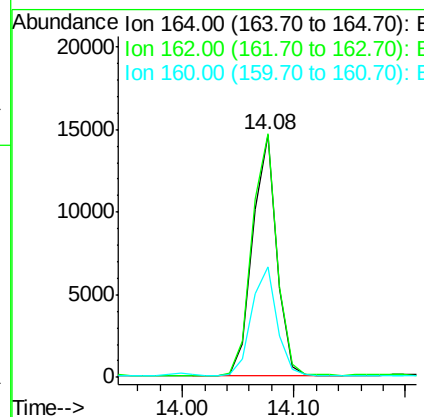
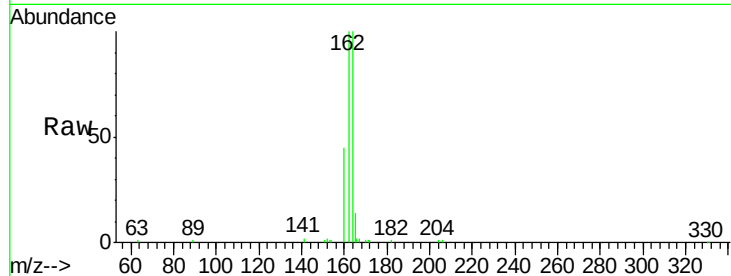
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.08 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.2	82.2	123.4
160	45.4	38.3	57.5

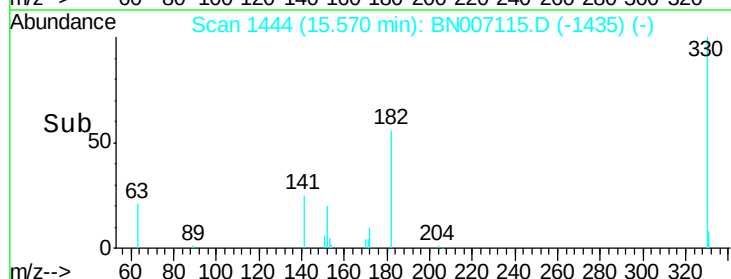
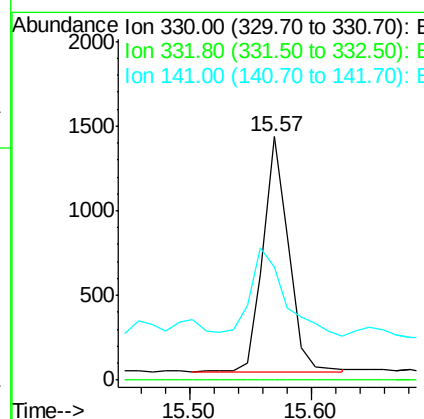
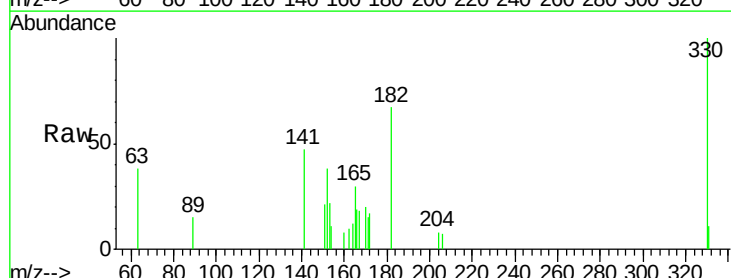
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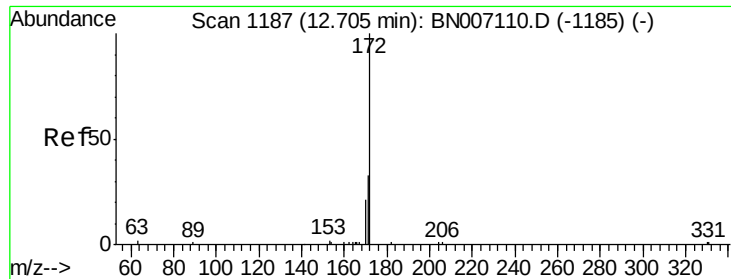
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#13
2,4,6-Tribromophenol
Concen: 0.171 ng
RT: 15.57 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	50.5	33.6	50.4#





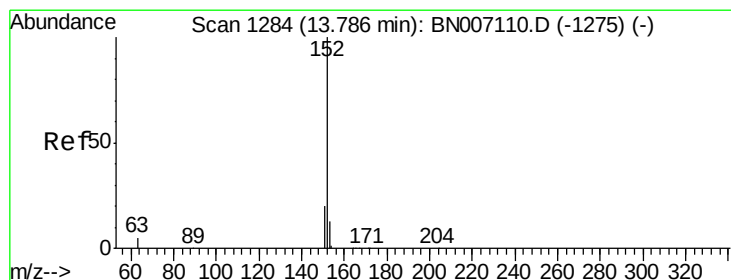
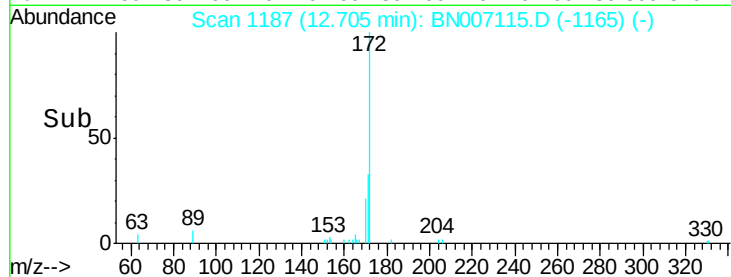
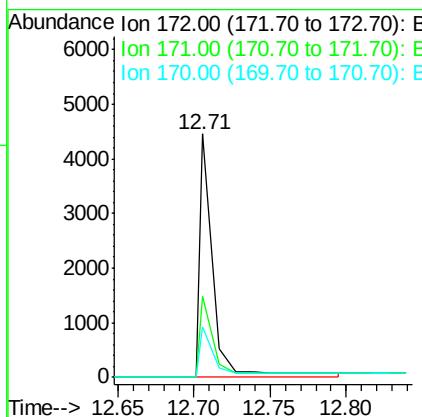
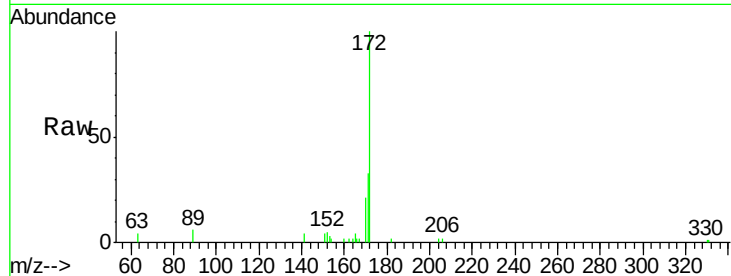
#14
2-Fluorobiphenyl
Concen: 0.103 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.3	26.3	39.5
170	20.8	17.0	25.4

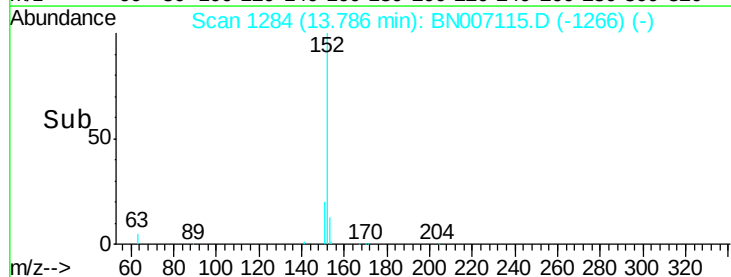
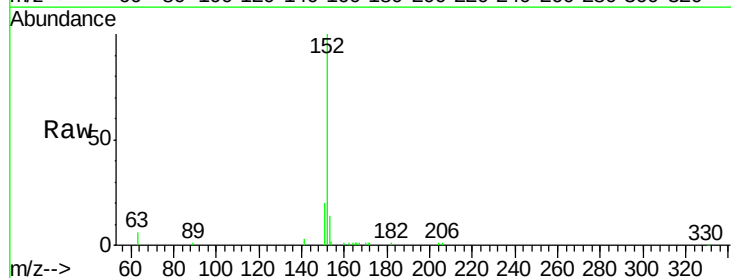
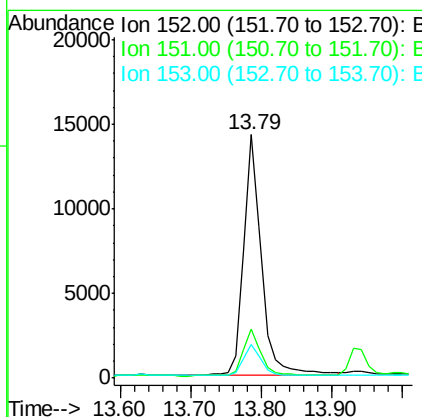
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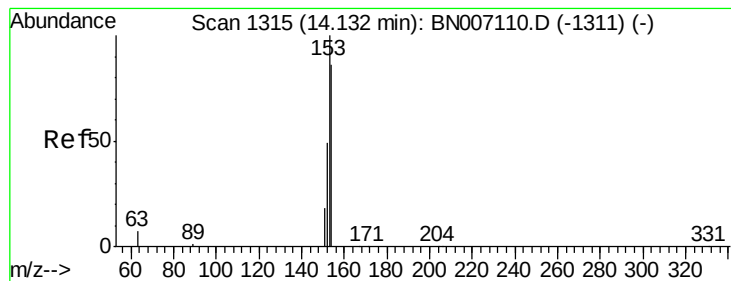
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#15
Acenaphthylene
Concen: 0.216 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.6
153	13.2	10.4	15.6





#16

Acenaphthene

Concen: 0.057 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

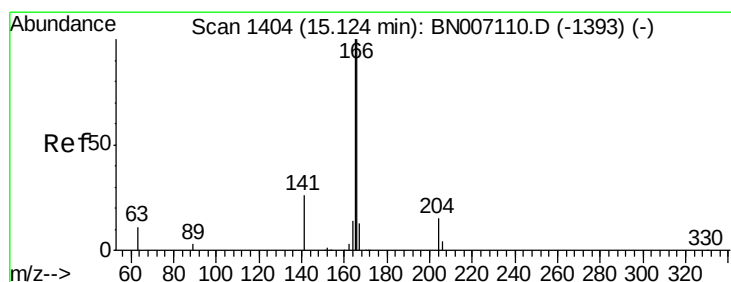
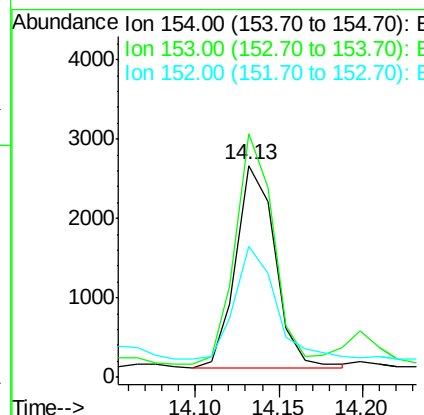
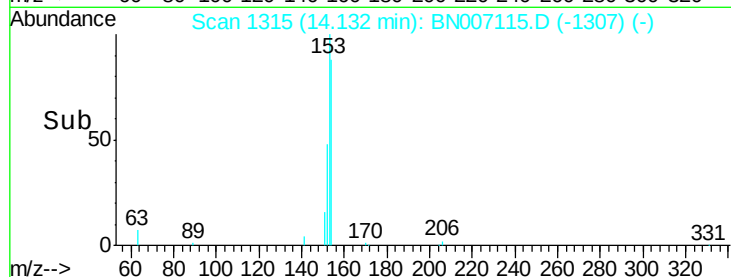
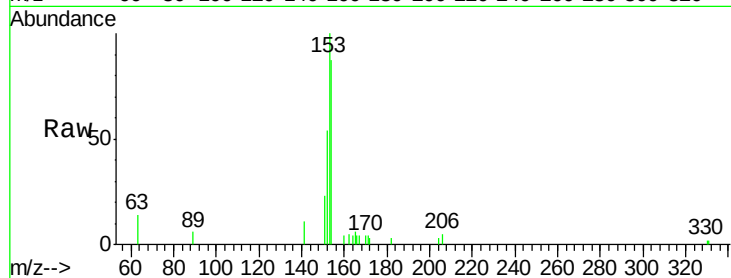
ClientSampleId :

EXT-023-SW076-073019

Tot Ion:	154	Resp:	4136
Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.5	134.3
152	64.6	44.8	67.2

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#17

Fluorene

Concen: 0.061 ng

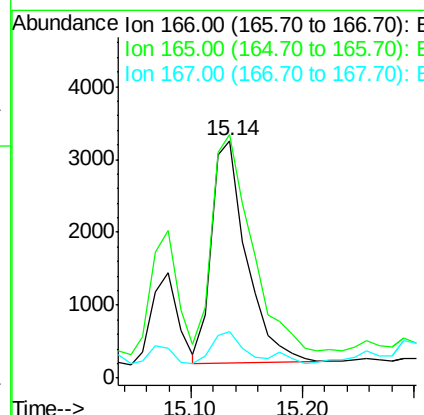
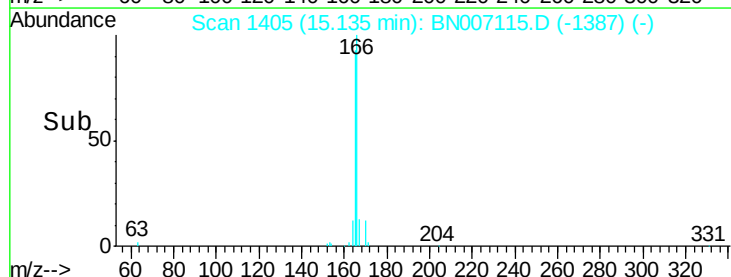
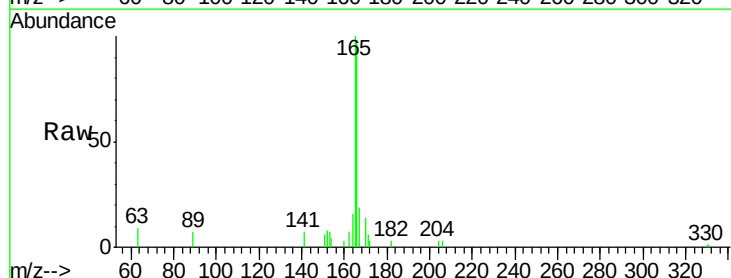
RT: 15.14 min Scan# 1405

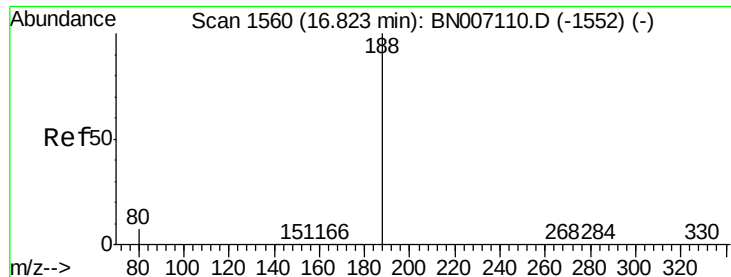
Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Tgt Ion:	166	Resp:	6667
Ion	Ratio	Lower	Upper
166	100		
165	110.4	77.9	116.9
167	12.9	10.9	16.3





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

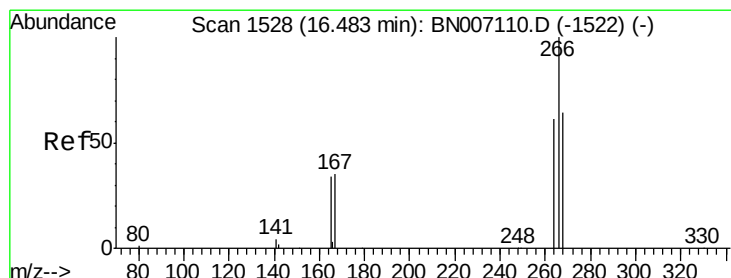
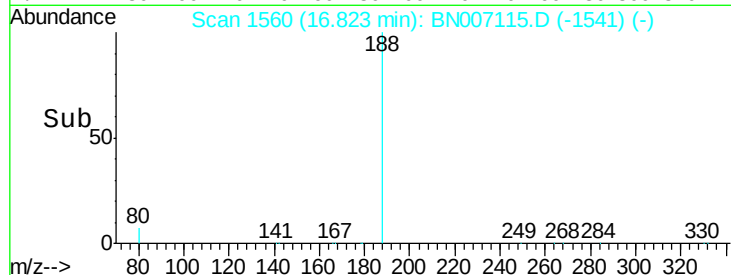
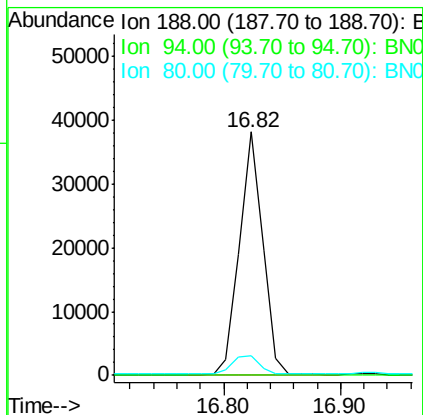
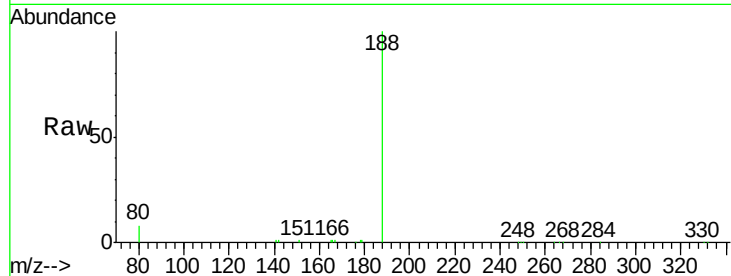
ClientSampleId :

EXT-023-SW076-073019

Tot Ion:	188	Resp:	52000
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.9	7.8	11.6

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#21

Pentachlorophenol

Concen: 0.021 ng

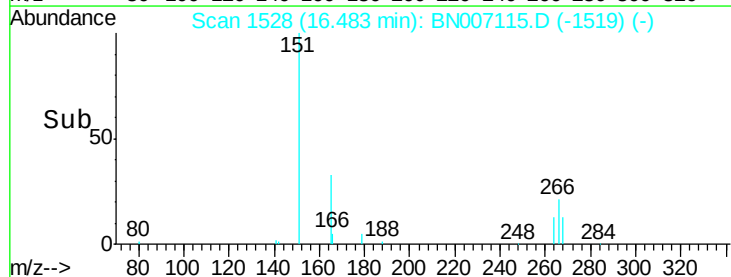
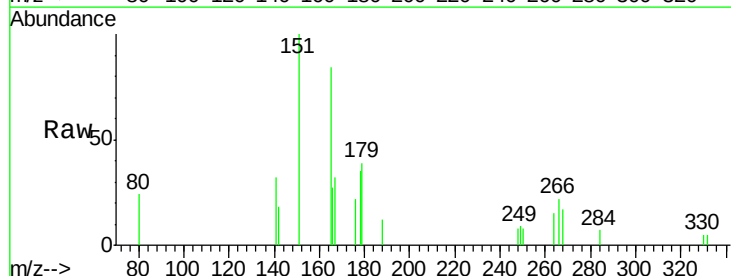
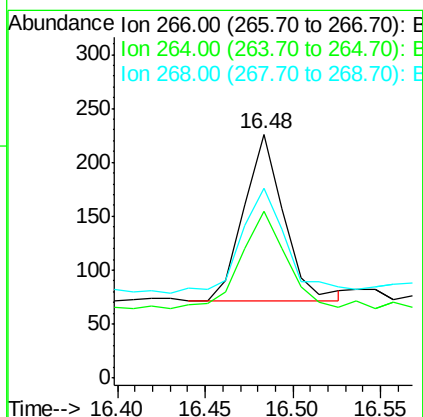
RT: 16.48 min Scan# 1528

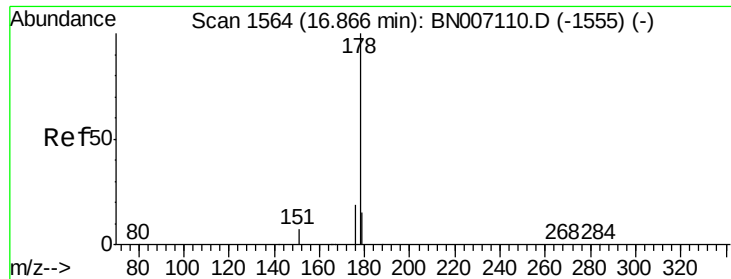
Delta R.T. -0.00 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Tgt Ion:	266	Resp:	242
Ion Ratio	Lower	Upper	
266	100		
264	68.6	52.3	78.5
268	77.9	51.5	77.3#





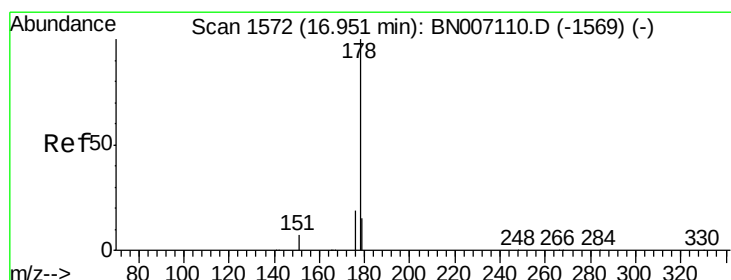
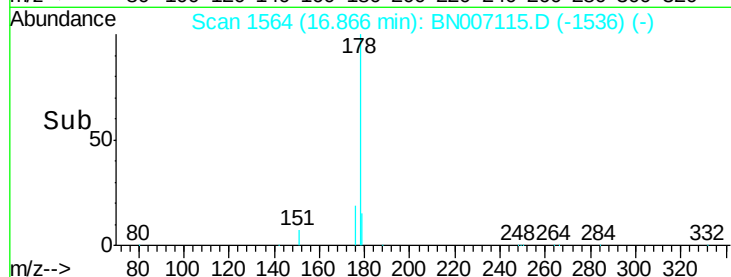
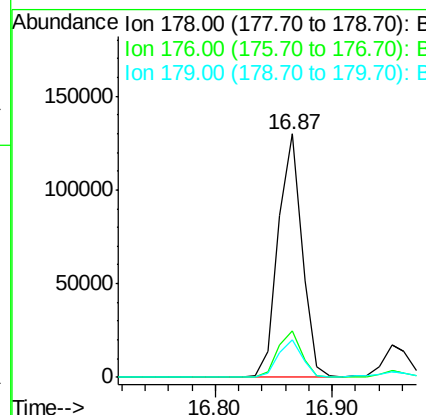
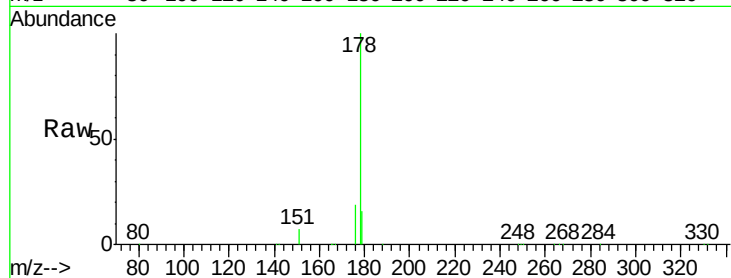
#22
Phenanthrene
Concen: 1.179 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.5	12.3	18.5

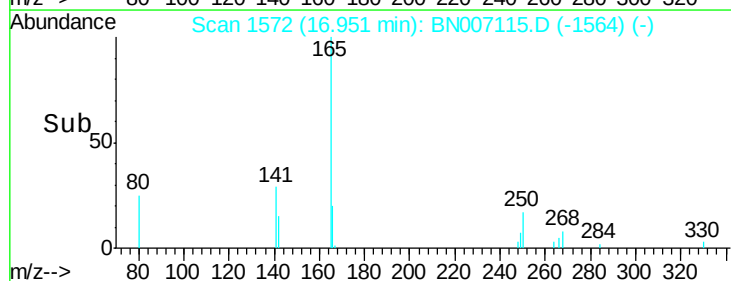
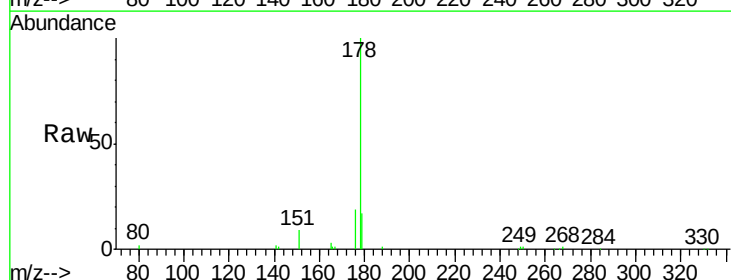
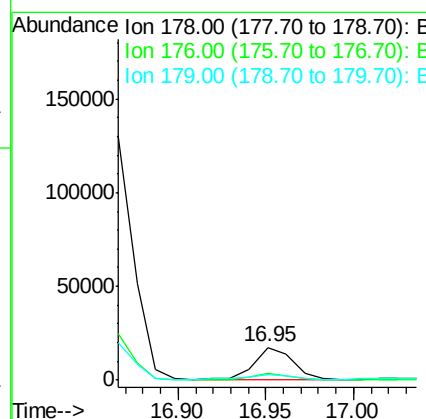
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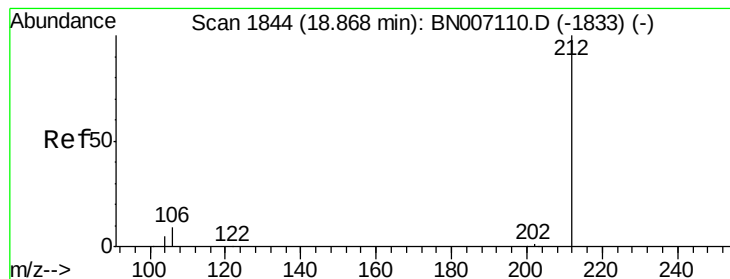
mohammad
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#23
Anthracene
Concen: 0.179 ng
RT: 16.95 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.6	21.8
179	20.0	12.5	18.7#





#24

Fluoranthene-d10

Concen: 0.178 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

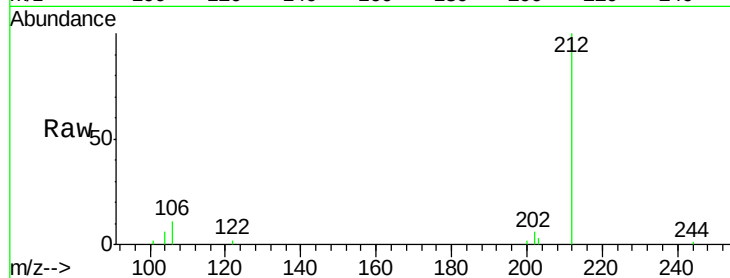
ClientSampleId :

EXT-023-SW076-073019

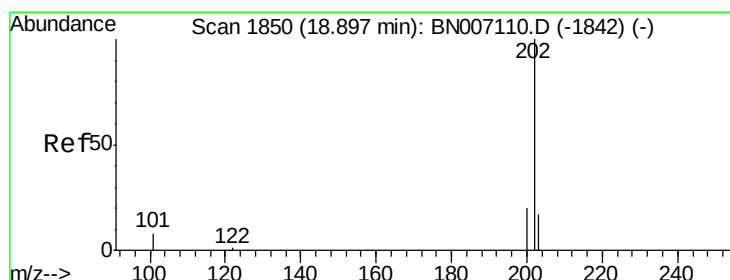
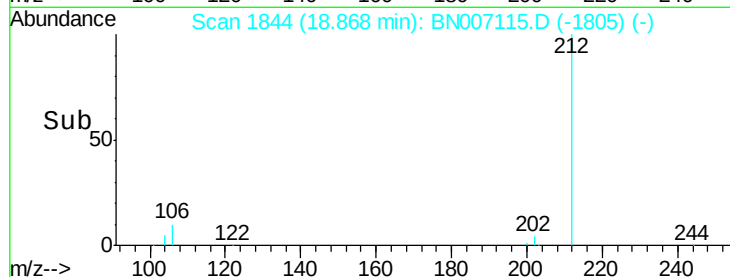
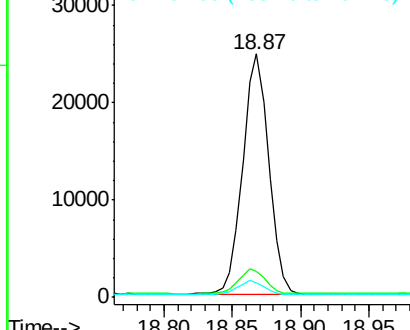
Tot Ion:	212	Resp:	32741
Ion Ratio	Lower	Upper	
212	100		
106	10.6	8.2	12.2
104	6.0	4.5	6.7

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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



#25

Fluoranthene

Concen: 2.133 ng

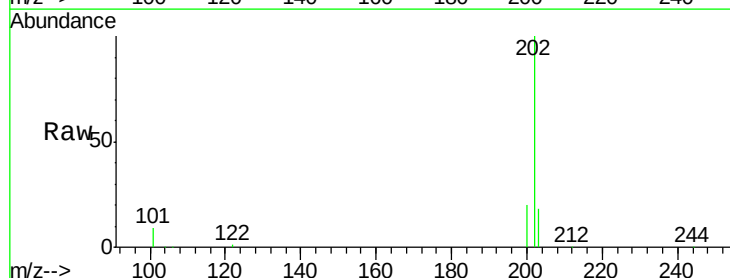
RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

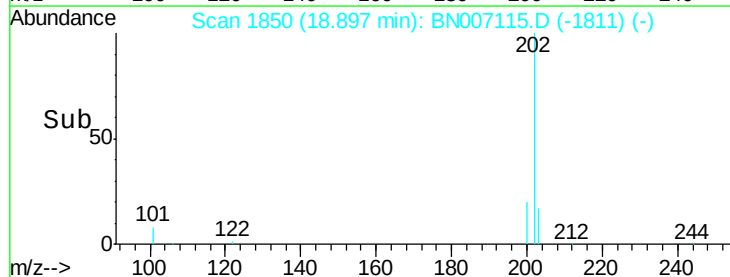
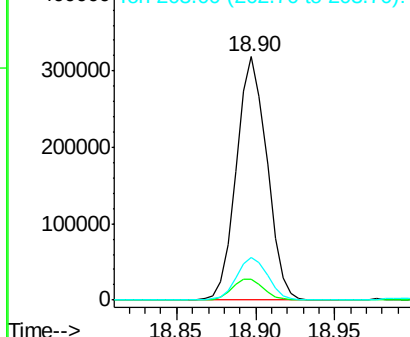
Lab File: BN007115.D

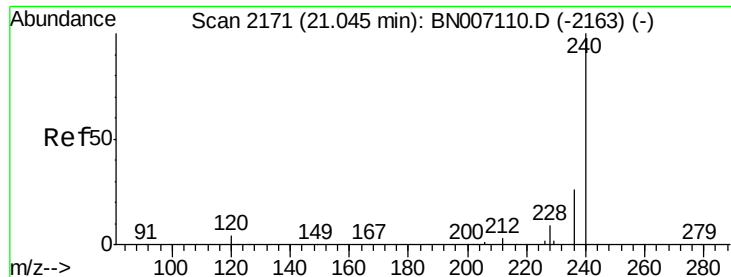
Acq: 13 Aug 2019 05:06

Tgt Ion:	202	Resp:	425240
Ion Ratio	Lower	Upper	
202	100		
101	8.9	7.0	10.4
203	17.5	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





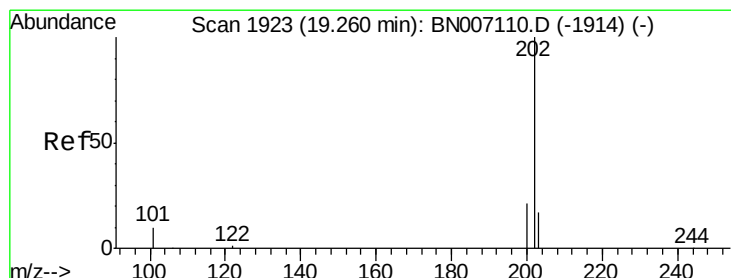
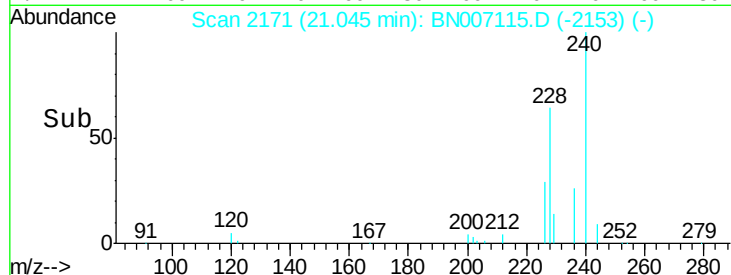
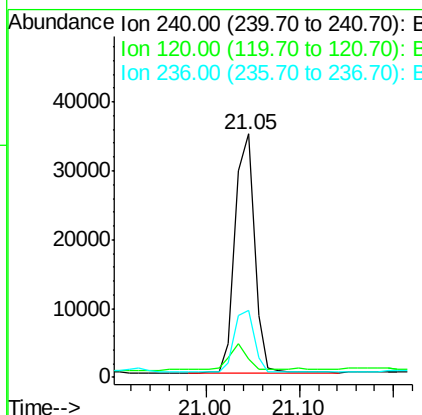
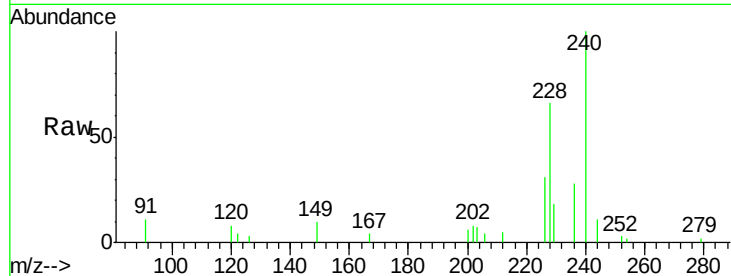
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.5	4.0	6.0#
236	27.7	21.3	31.9

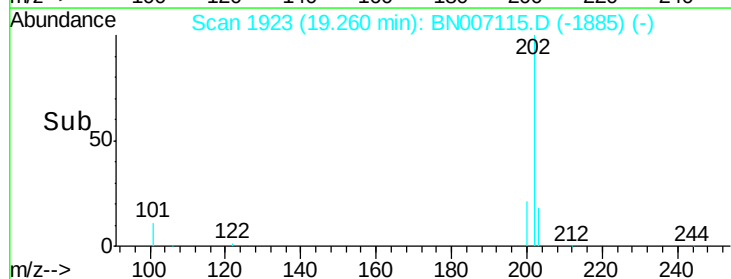
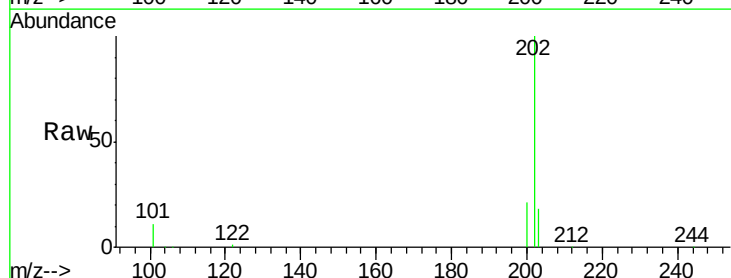
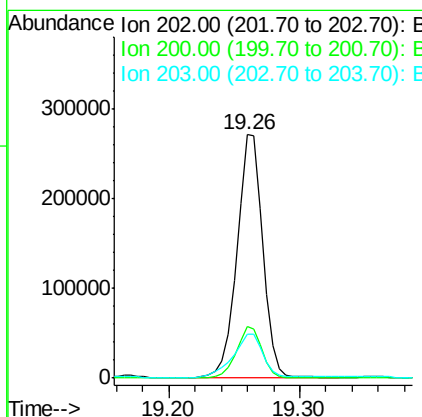
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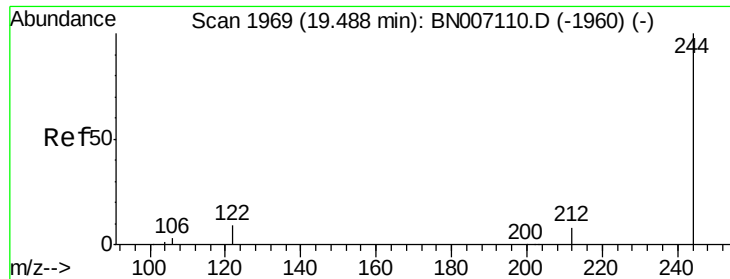
mohammad
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#27
Pyrene
Concen: 2.134 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	21.1	14.0	21.0#





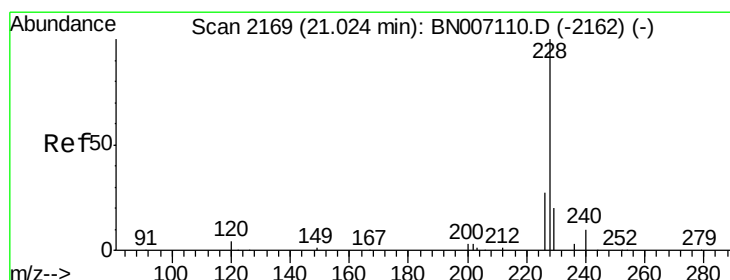
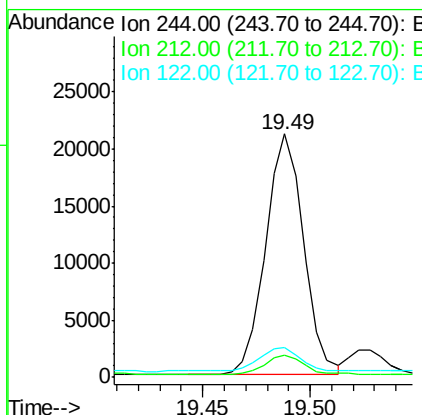
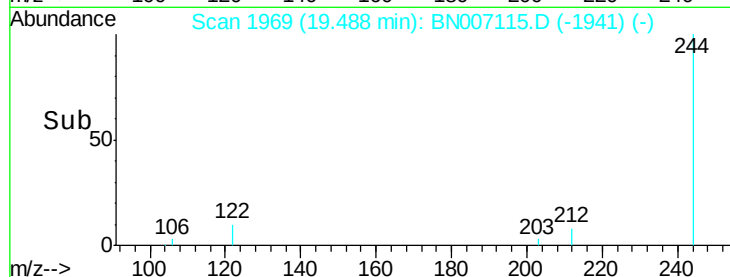
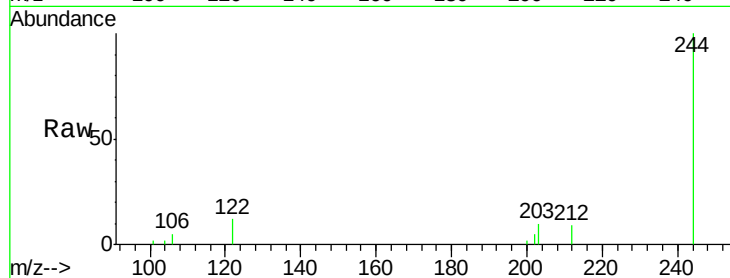
#28
 Terphenyl-d14
 Concen: 0.191 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007115.D
 Acq: 13 Aug 2019 05:06

Instrument :
 BNA_N
 ClientSampleId :
 EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.0	6.2	9.2
122	12.1	7.4	11.2

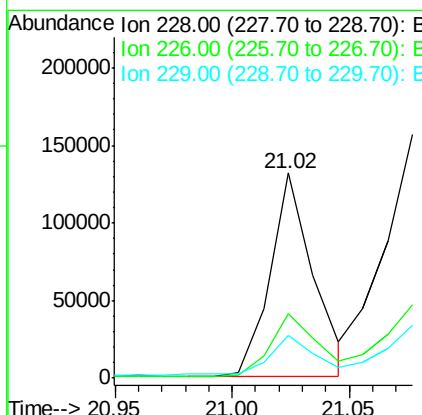
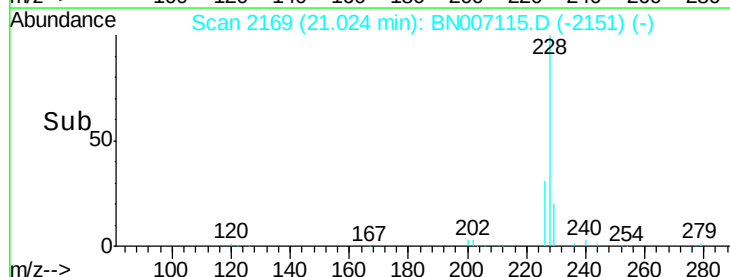
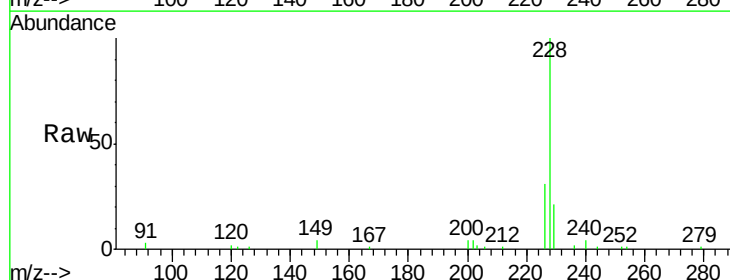
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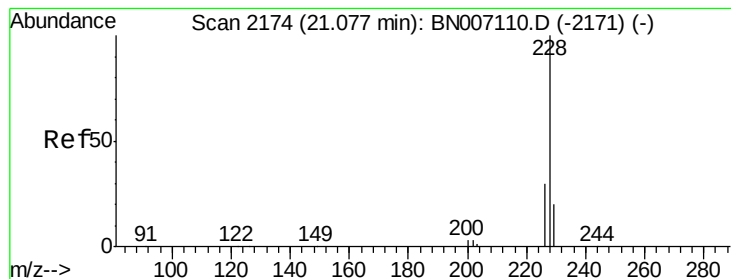
mohammad
 8/14/2019 2:52:26 AM



#29
 Benzo(a)anthracene
 Concen: 0.920 ng
 RT: 21.02 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: BN007115.D
 Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	21.8	32.6
229	21.1	15.6	23.4





#30

Chrysene

Concen: 1.243 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Instrument :

BNA_N

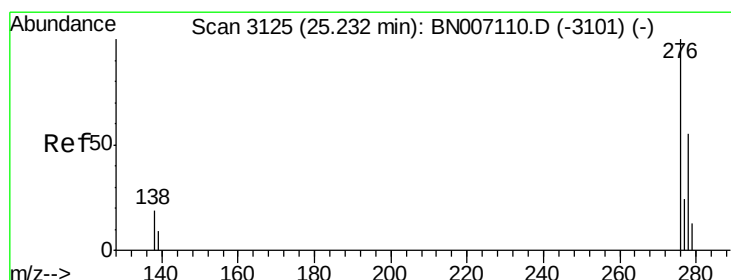
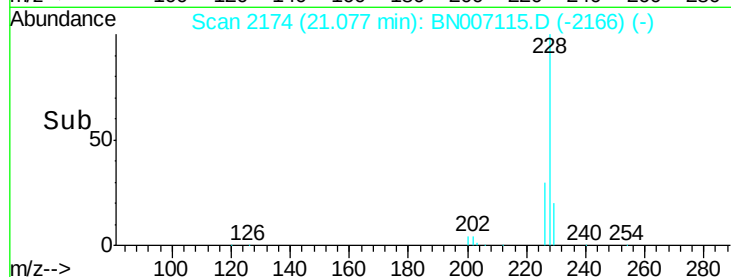
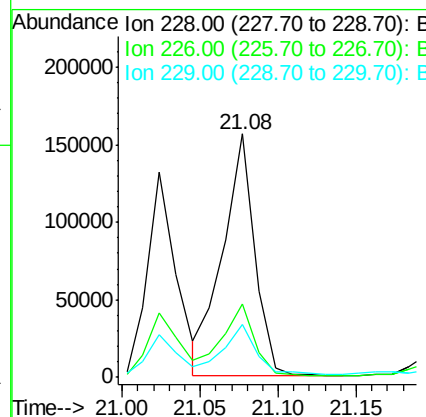
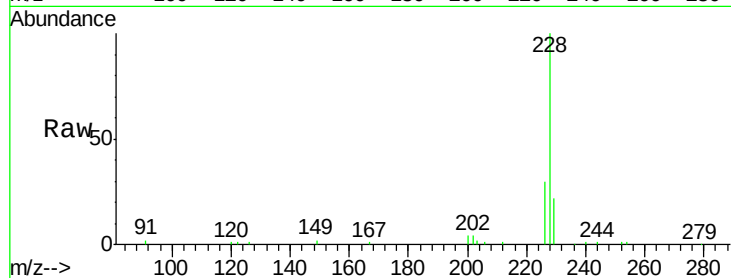
ClientSampleId :

EXT-023-SW076-073019

Tot Ion:	228	Resp:	220436
Ion Ratio	Lower	Upper	
228	100		
226	30.1	23.8	35.6
229	21.7	15.7	23.5

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#31

Indeno(1,2,3-cd)pyrene

Concen: 0.786 ng

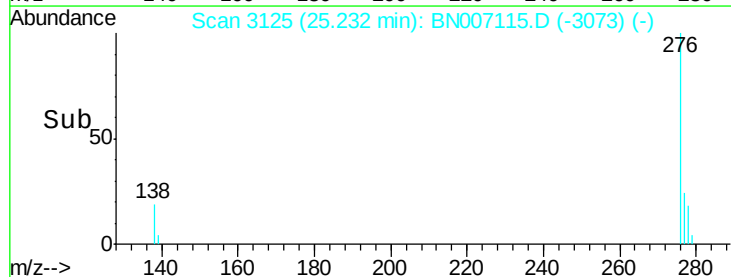
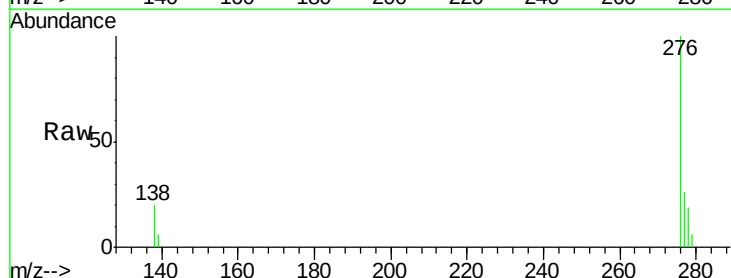
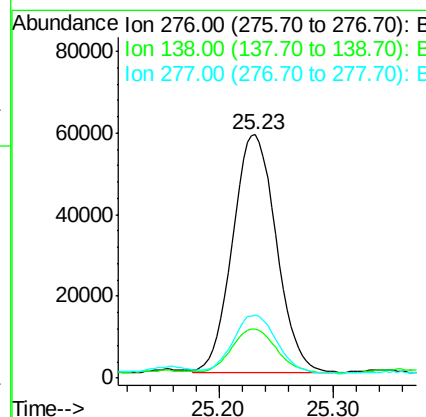
RT: 25.23 min Scan# 3125

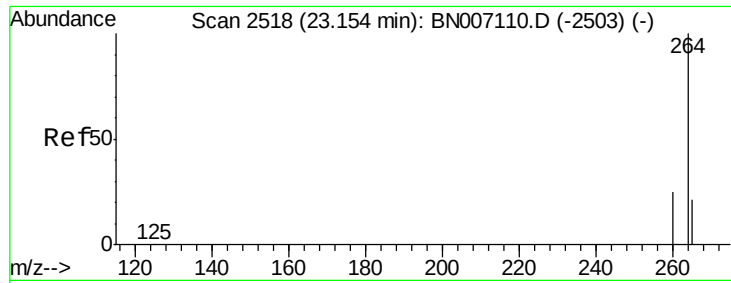
Delta R.T. -0.02 min

Lab File: BN007115.D

Acq: 13 Aug 2019 05:06

Tgt Ion:	276	Resp:	153677
Ion Ratio	Lower	Upper	
276	100		
138	19.1	16.0	24.0
277	24.7	19.9	29.9





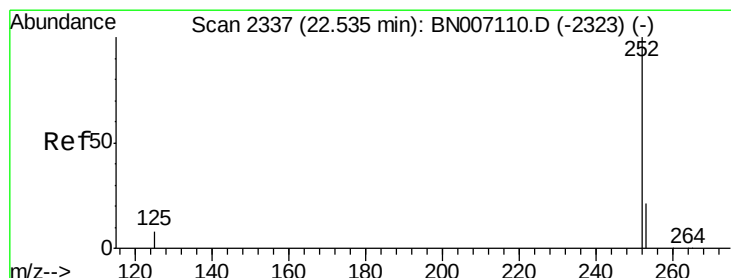
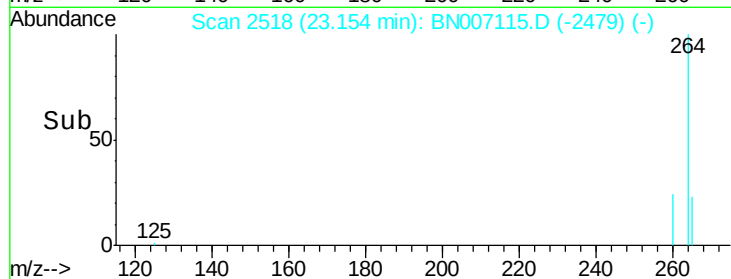
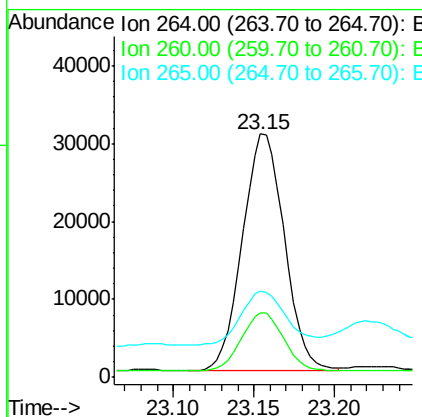
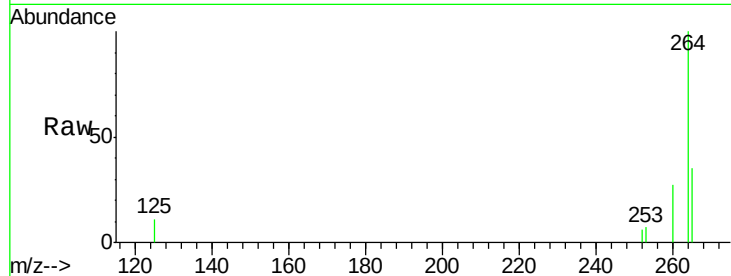
#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007115.D
 Acq: 13 Aug 2019 05:06

Instrument :
 BNA_N
 ClientSampleId :
 EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.6	19.8	29.8
265	35.4	26.2	39.4

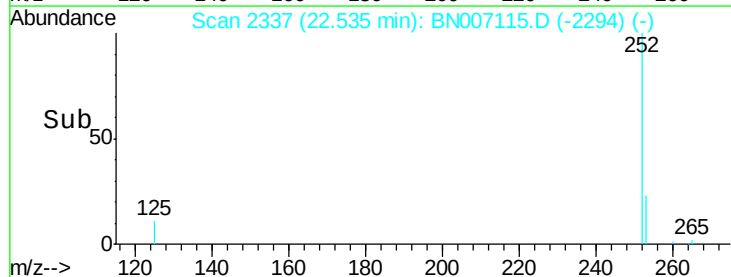
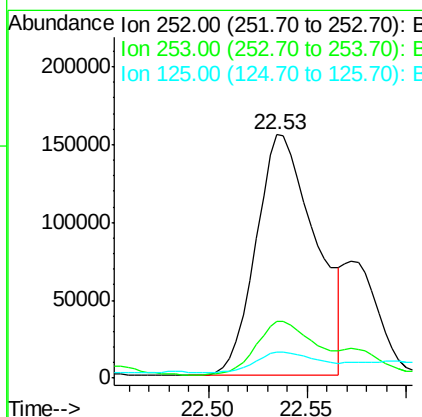
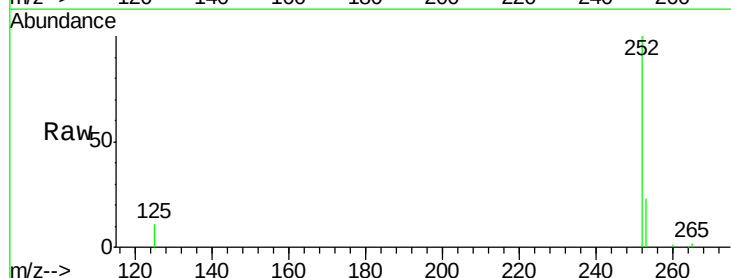
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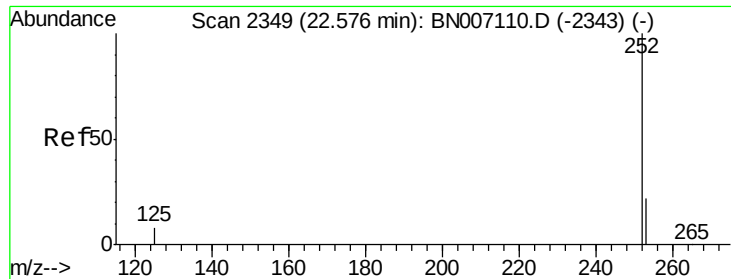
mohammad
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#33
 Benzo(b)fluoranthene
 Concen: 1.704 ng
 RT: 22.53 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BN007115.D
 Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.2
125	10.8	7.4	11.0





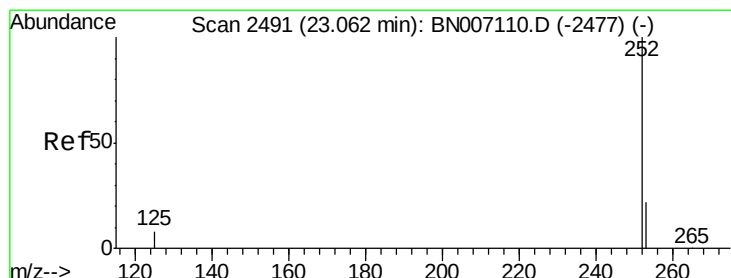
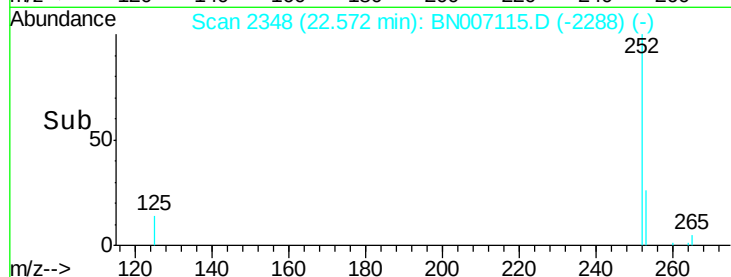
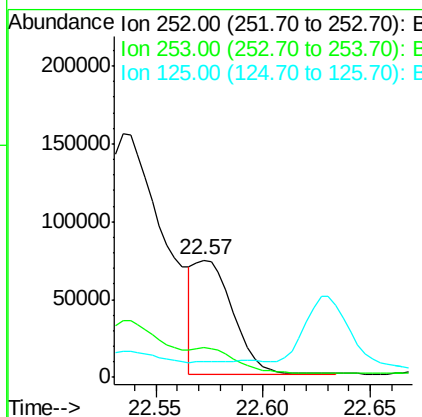
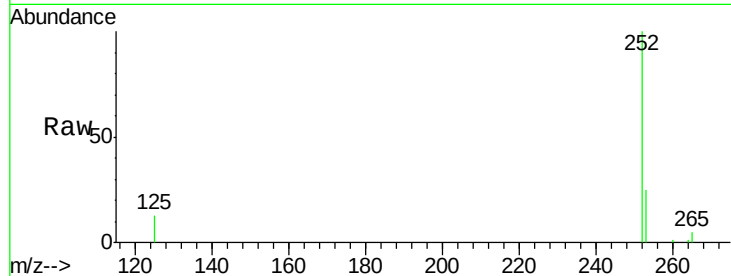
#34
Benzo(k)fluoranthene
Concen: 0.493 ng m
RT: 22.57 min Scan# 2348
Delta R.T. -0.02 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.1	27.1
125	13.2	7.4	11.0

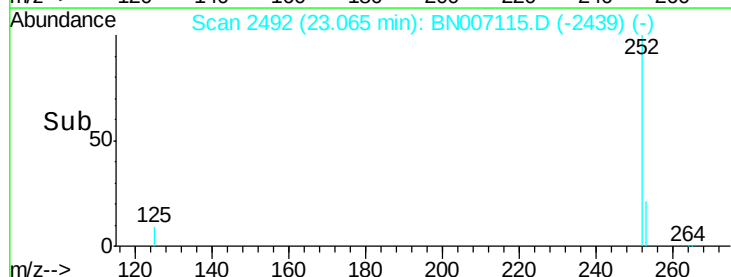
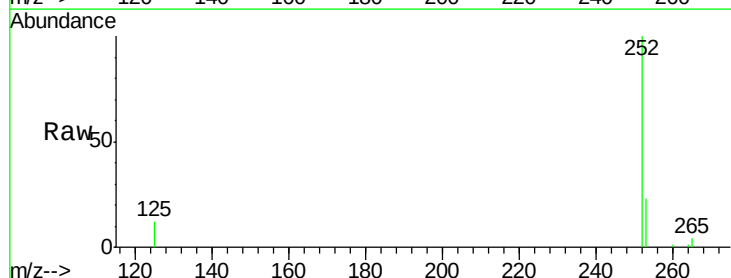
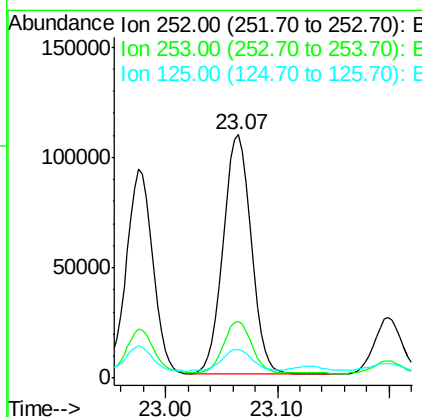
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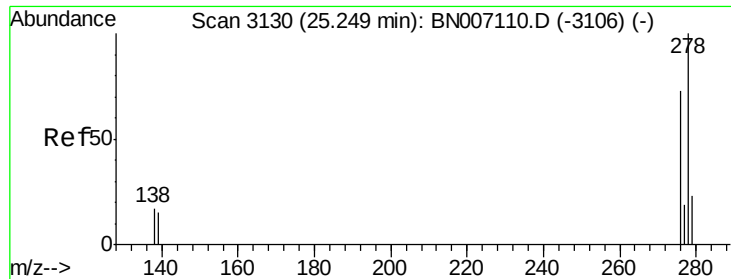
mohammad
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#35
Benzo(a)pyrene
Concen: 1.108 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.5	27.7
125	11.9	8.2	12.4





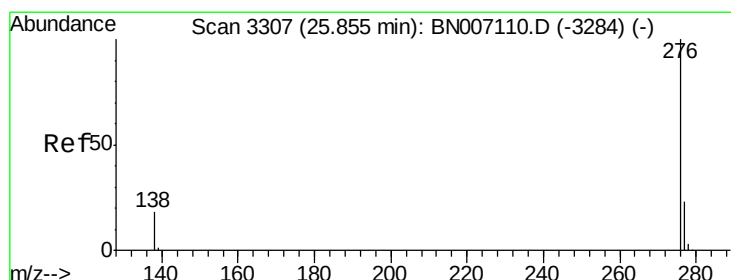
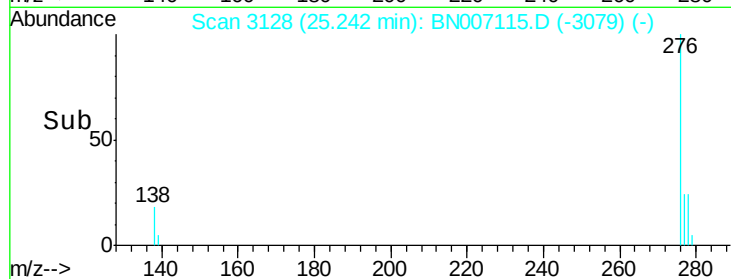
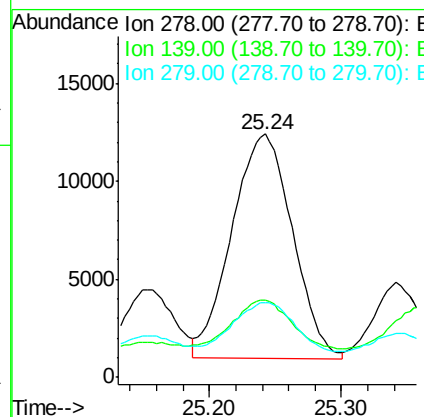
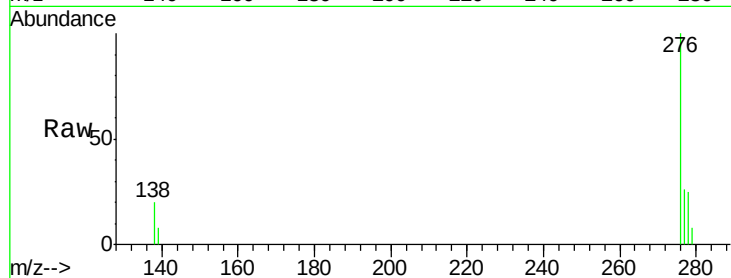
#36
Dibenzo(a,h)anthracene
Concen: 0.214 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.03 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Instrument :
BNA_N
ClientSampleId :
EXT-023-SW076-073019

Tot Ion	Ratio	Lower	Upper
278	100		
139	31.7	11.3	16.9#
279	30.9	19.3	28.9#

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:26 AM



#37
Benzo(g,h,i)perylene
Concen: 0.896 ng
RT: 25.86 min Scan# 3309
Delta R.T. -0.02 min
Lab File: BN007115.D
Acq: 13 Aug 2019 05:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.8	29.8
138	20.4	14.6	22.0

