

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN100519\
 Data File : BN008031.D
 Acq On : 05 Oct 2019 18:15
 Operator : JU
 Sample : K5078-04RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW068-092619RE

Manual Integrations
 APPROVED

mohammad
 10/7/2019 4:39:52 PM

Quant Time: Oct 07 06:56:26 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	4820	0.40	ng	-0.02
7) Naphthalene-d8	10.44	136	19262	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	12067	0.40	ng	-0.03
19) Phenanthrene-d10	17.05	188	24232	0.40	ng	-0.03
27) Chrysene-d12	21.25	240	25660	0.40	ng	-0.02
34) Perylene-d12	23.47	264	28815	0.40	ng	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	5.30	112	1556	0.09	ng	-0.02
5) Phenol-d6	6.87	99	1812	0.08	ng	0.00
8) Nitrobenzene-d5	8.82	82	1849	0.11	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	3377	0.10	ng	-0.02
14) 2,4,6-Tribromophenol	15.80	330	647	0.10	ng	-0.02
15) 2-Fluorobiphenyl	12.93	172	4489	0.09	ng	-0.02
25) Fluoranthene-d10	19.09	212	7623	0.09	ng	-0.02
29) Terphenyl-d14	19.69	244	6471	0.10	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.49	128	1692	0.031	ng	# 68
12) 2-Methylnaphthalene	12.11	142	1425	0.039	ng	# 83
16) Acenaphthylene	14.02	152	30433	0.476	ng	99
17) Acenaphthene	14.36	154	1446	0.035	ng	96
18) Fluorene	15.36	166	4345	0.082	ng	# 12
23) Phenanthrene	17.09	178	61638	0.817	ng	100
24) Anthracene	17.18	178	24810	0.364	ng	99
26) Fluoranthene	19.12	202	137550	1.465	ng	99
28) Pyrene	19.48	202	148043	1.692	ng	96
30) Benzo(a)anthracene	21.23	228	74972	0.793	ng	# 92
31) Chrysene	21.28	228	92697	1.007	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.18	149	40300	0.829	ng	98
33) Indeno(1,2,3-cd)pyrene	25.68	276	69128	0.600	ng	# 95
35) Benzo(b)fluoranthene	22.81	252	124426	1.244	ng	# 87
36) Benzo(k)fluoranthene	22.84	252	38237m	0.387	ng	
37) Benzo(a)pyrene	23.37	252	83926	0.893	ng	# 88
38) Dibenzo(a,h)anthracene	25.68	278	20773	0.216	ng	# 45
39) Benzo(g,h,i)perylene	26.36	276	83732	0.880	ng	93

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

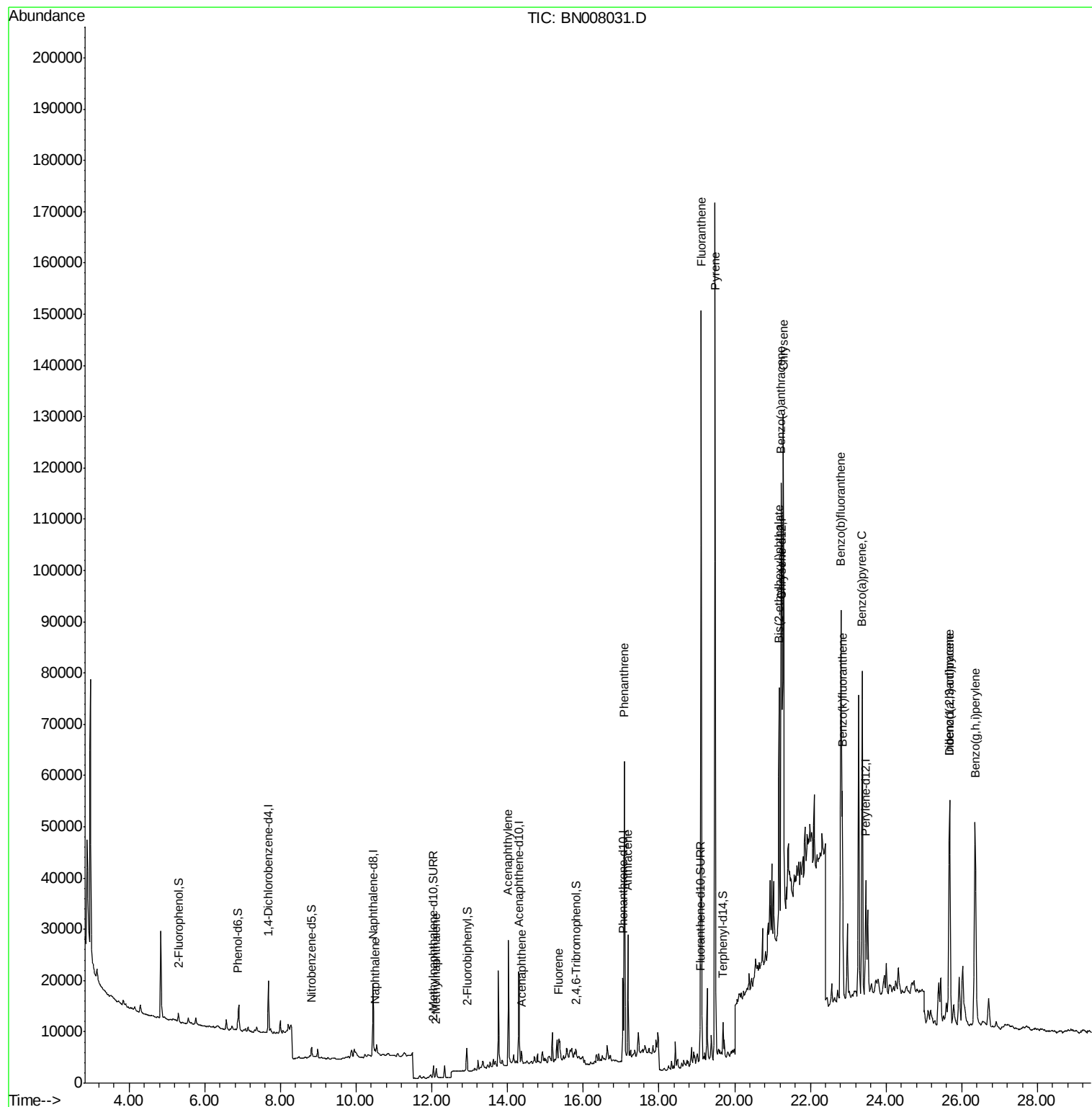
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN100519\
Data File : BN008031.D
Acq On : 05 Oct 2019 18:15
Operator : JU
Sample : K5078-04RE
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM

Quant Time: Oct 07 06:56:26 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

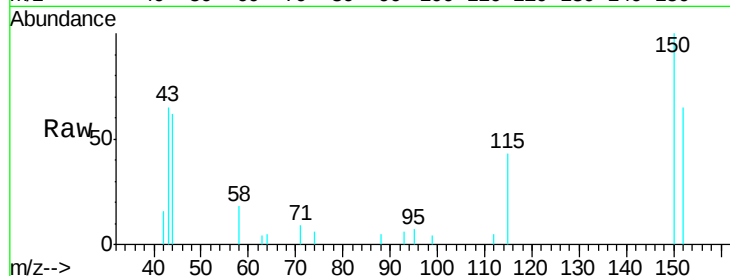




#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.68 min Scan# 602
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

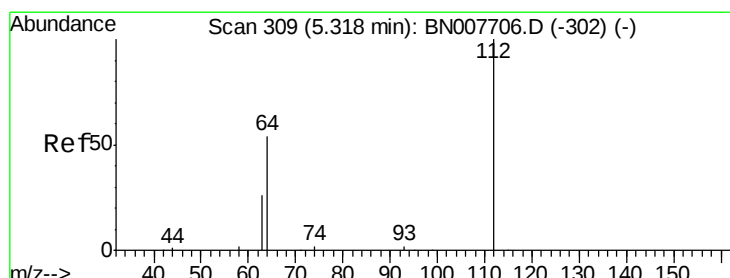
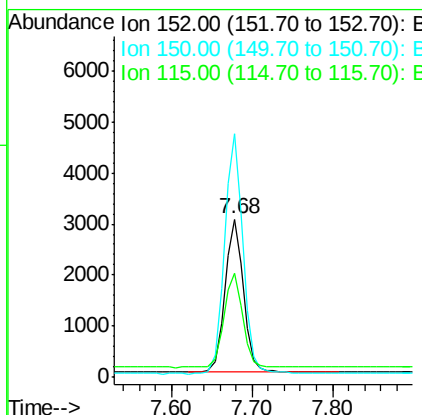
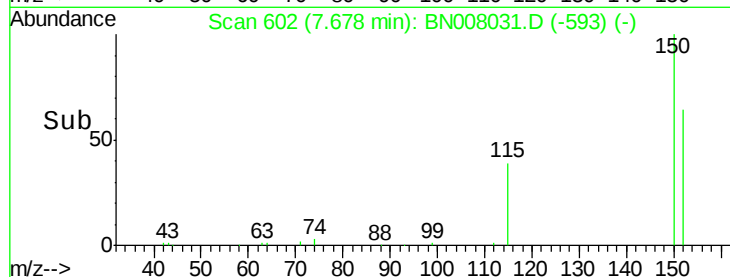
Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE



Tgt Ion:152 Resp: 4820
Ion Ratio Lower Upper
152 100
150 154.1 125.6 188.4
115 65.7 53.3 79.9

Manual Integrations
APPROVED

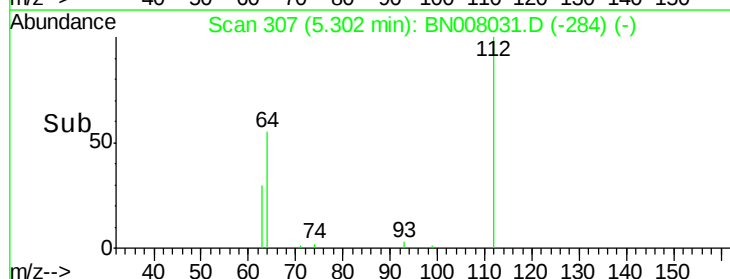
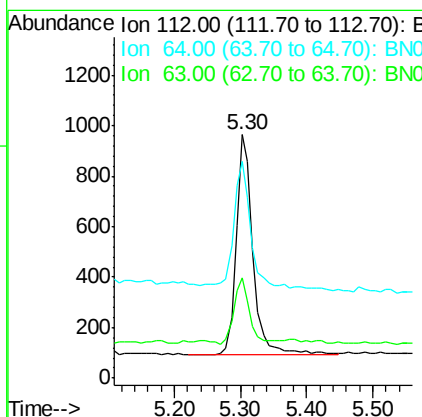
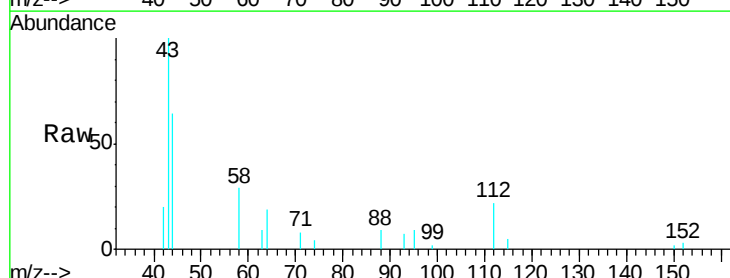
mohammad
10/7/2019 4:39:52 PM

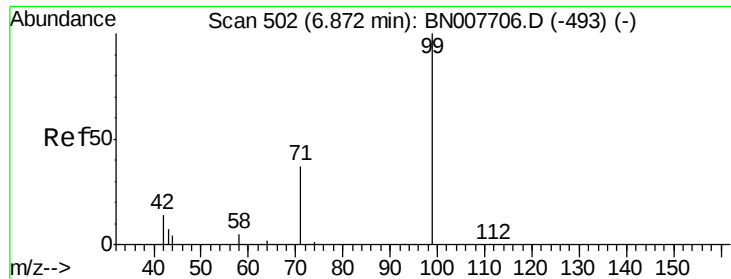


#4

2-Fluorophenol
Concen: 0.094 ng
RT: 5.30 min Scan# 307
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion:112 Resp: 1556
Ion Ratio Lower Upper
112 100
64 66.2 46.6 70.0
63 27.4 23.1 34.7





#5

Phenol-d6

Concen: 0.083 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Instrument :

BNA_N

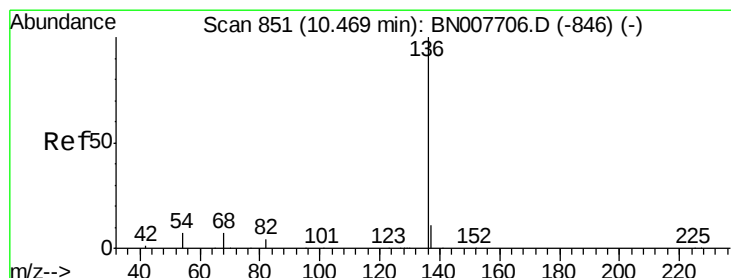
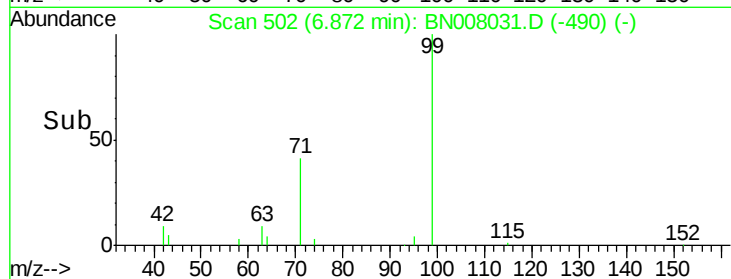
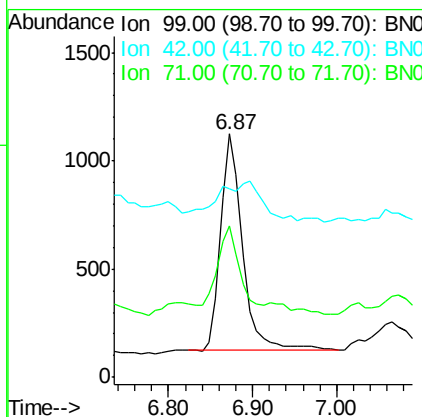
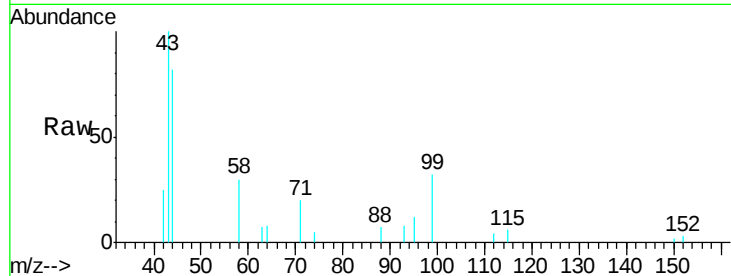
ClientSampleId :

EXT-024-SW068-092619RE

Tgt Ion:	99	Resp:	1812
Ion Ratio	Lower	Upper	
99	100		
42	0.0	12.8	19.2#
71	35.9	27.6	41.4

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#7

Naphthalene-d8

Concen: 0.400 ng

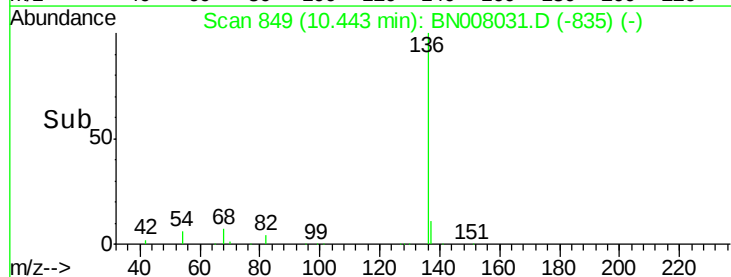
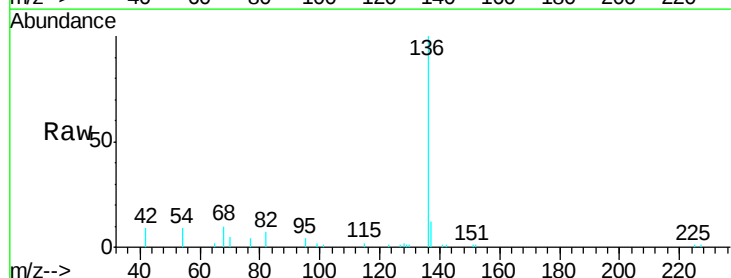
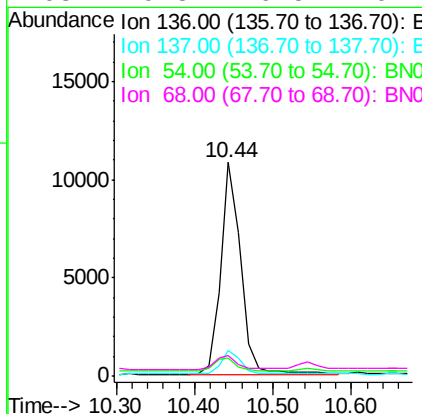
RT: 10.44 min Scan# 849

Delta R.T. -0.03 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Tgt Ion:	136	Resp:	19262
Ion Ratio	Lower	Upper	
136	100		
137	11.8	9.2	13.8
54	8.6	5.8	8.8
68	9.8	6.5	9.7#





#8

Nitrobenzene-d5

Concen: 0.110 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Instrument :

BNA_N

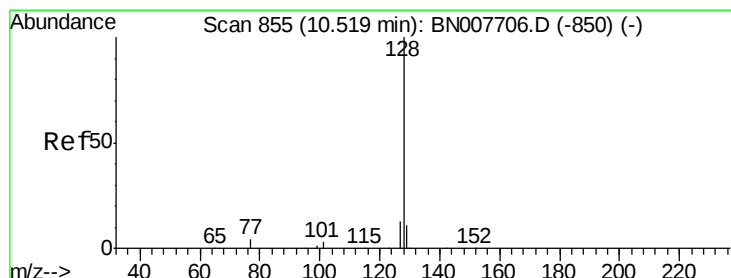
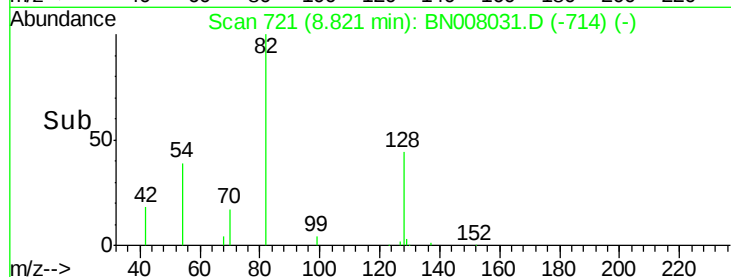
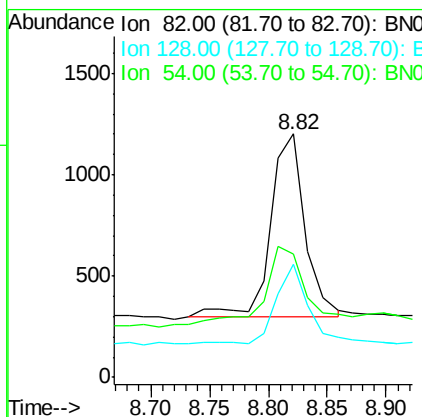
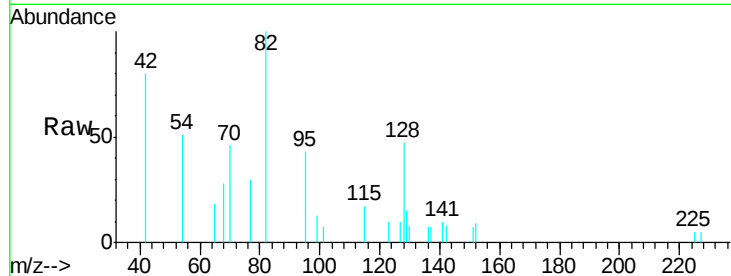
ClientSampleId :

EXT-024-SW068-092619RE

Tgt Ion:	82	Resp:	1849
Ion Ratio	Lower	Upper	
82	100		
128	46.5	24.5	36.7#
54	50.8	35.2	52.8

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#9

Naphthalene

Concen: 0.031 ng

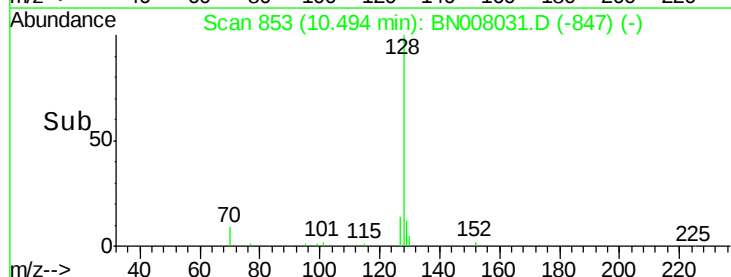
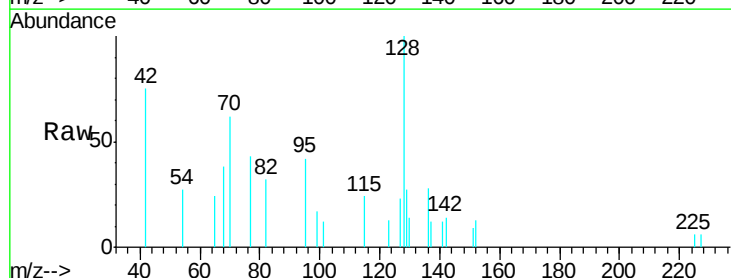
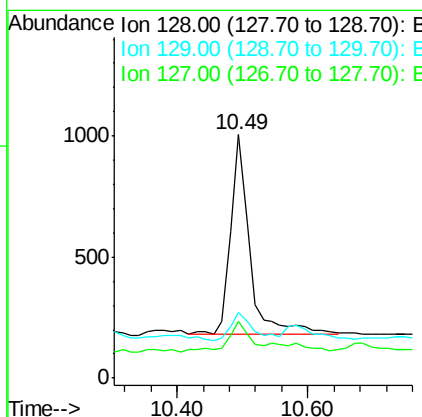
RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Tgt Ion:	128	Resp:	1692
Ion Ratio	Lower	Upper	
128	100		
129	26.7	9.1	13.7#
127	23.1	10.6	15.8#





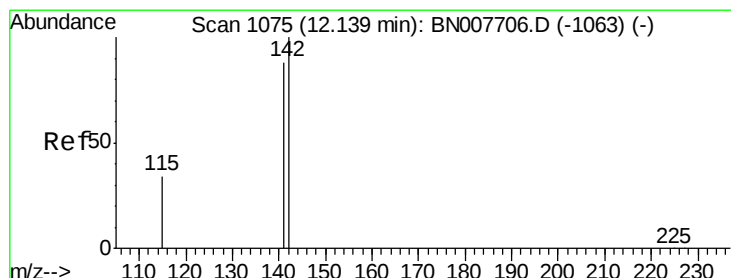
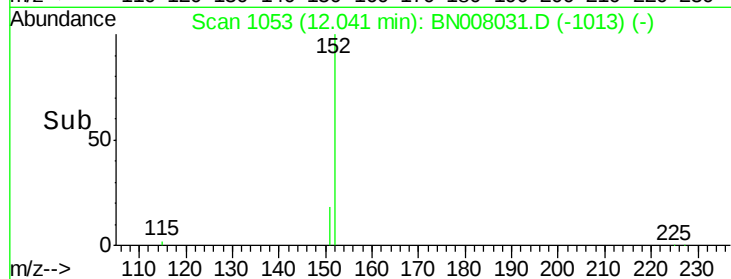
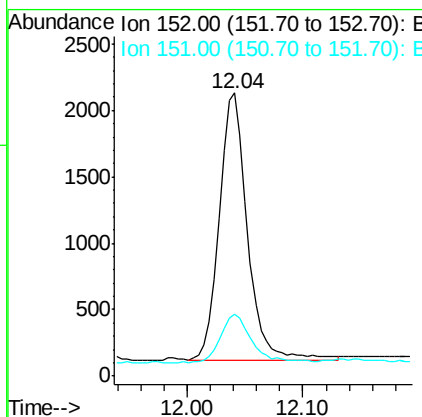
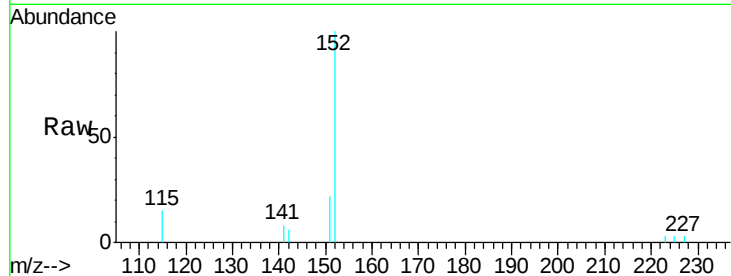
#11
2-Methylnaphthalene-d10
Concen: 0.104 ng
RT: 12.04 min Scan# 1053
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.4	23.2

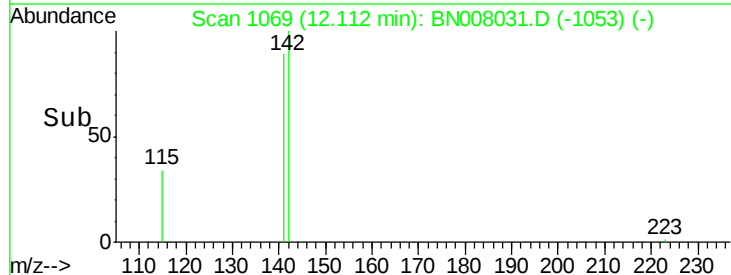
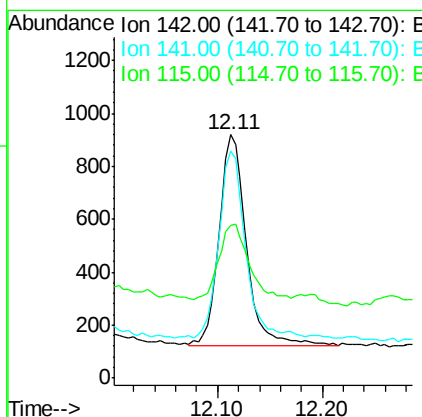
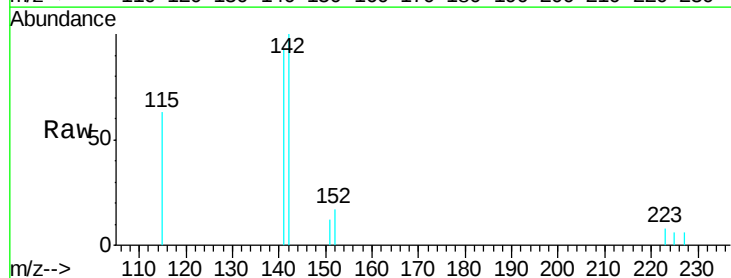
Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#12
2-Methylnaphthalene
Concen: 0.039 ng
RT: 12.11 min Scan# 1069
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.4	70.6	106.0
115	62.9	28.3	42.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.30 min Scan# 1318

Delta R.T. -0.03 min

Lab File: BN008031.D

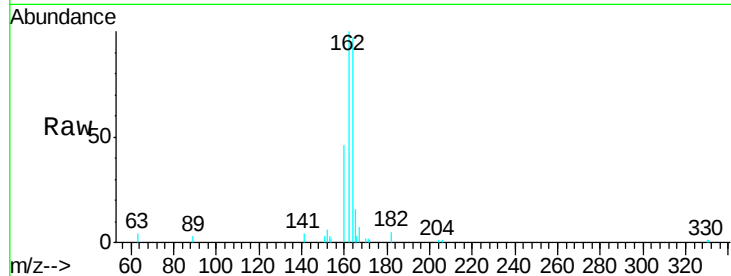
Acq: 05 Oct 2019 18:15

Instrument :

BNA_N

ClientSampleId :

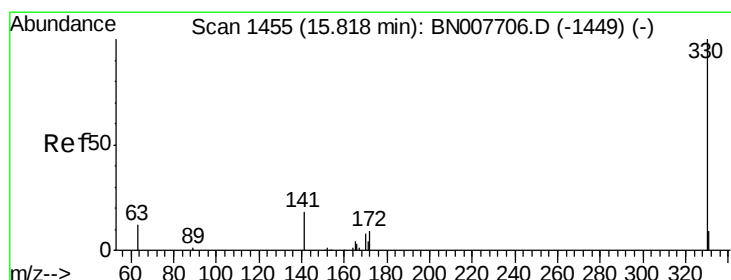
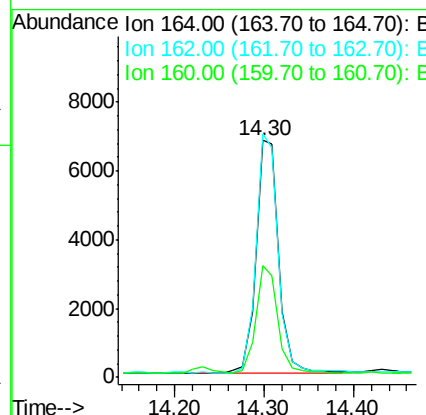
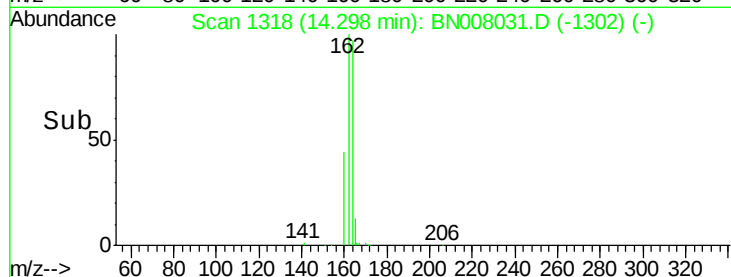
EXT-024-SW068-092619RE



Tgt Ion:	164	Resp:	12067
Ion Ratio	Lower	Upper	
164	100		
162	102.7	81.7	122.5
160	47.2	37.0	55.4

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#14

2,4,6-Tribromophenol

Concen: 0.098 ng

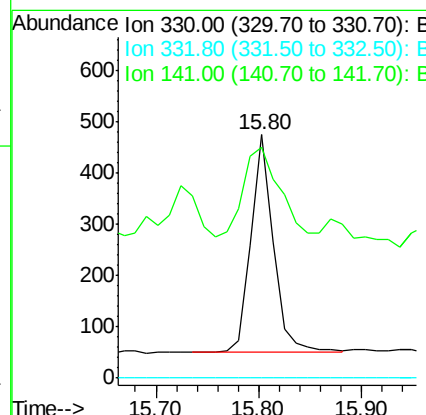
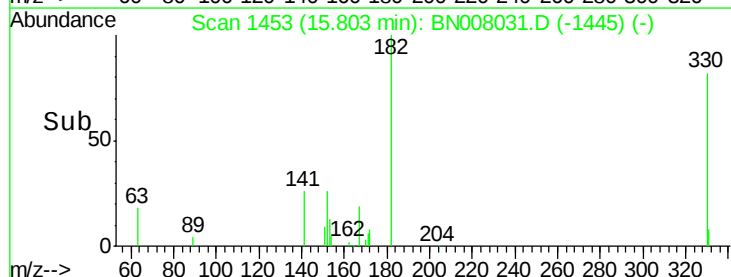
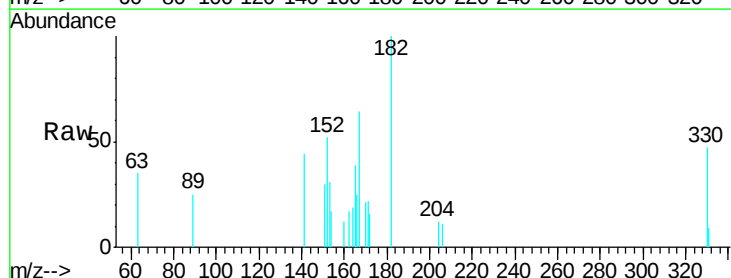
RT: 15.80 min Scan# 1453

Delta R.T. -0.02 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Tgt Ion:	330	Resp:	647
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	70.6	28.7	43.1#





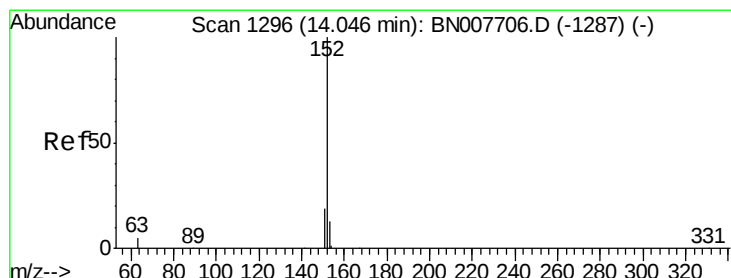
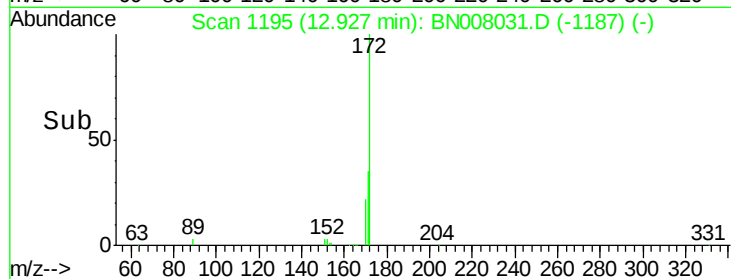
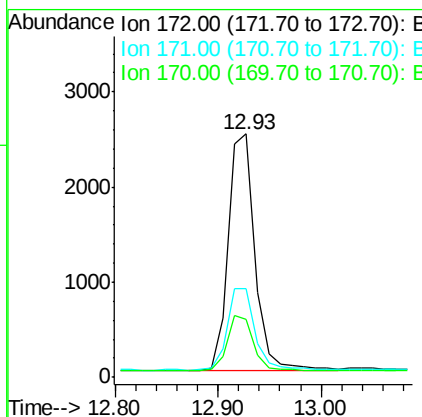
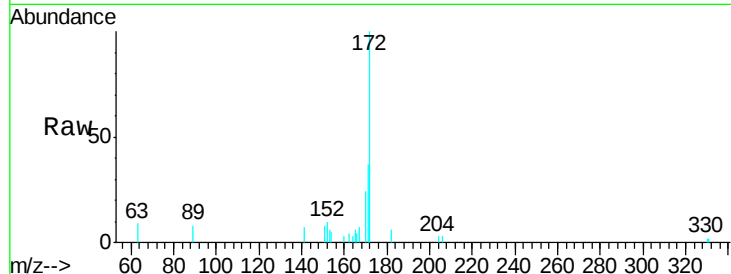
#15
2-Fluorobiphenyl
Concen: 0.090 ng
RT: 12.93 min Scan# 1195
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.8	43.2
170	23.9	19.5	29.3

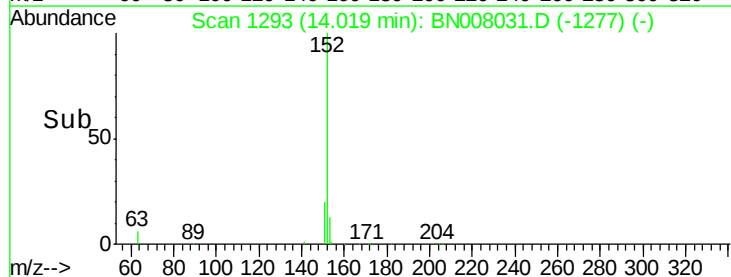
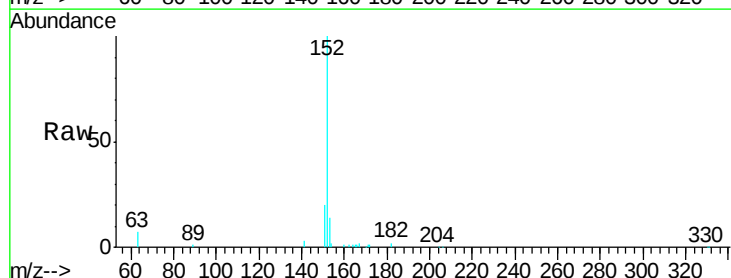
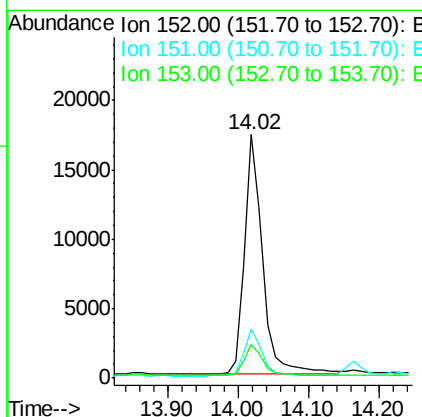
Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#16
Acenaphthylene
Concen: 0.476 ng
RT: 14.02 min Scan# 1293
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.5	23.3
153	13.2	10.4	15.6





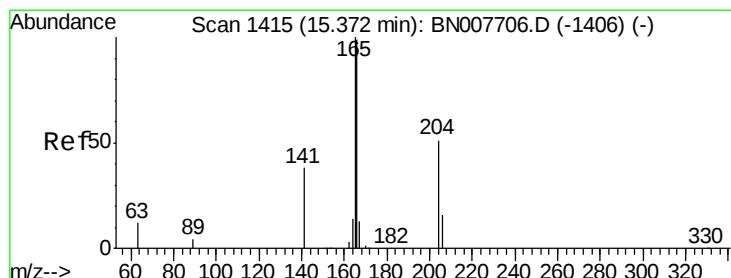
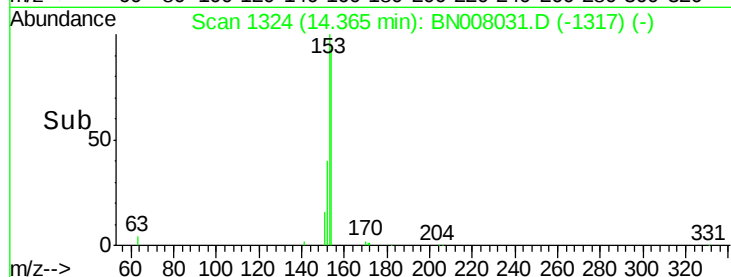
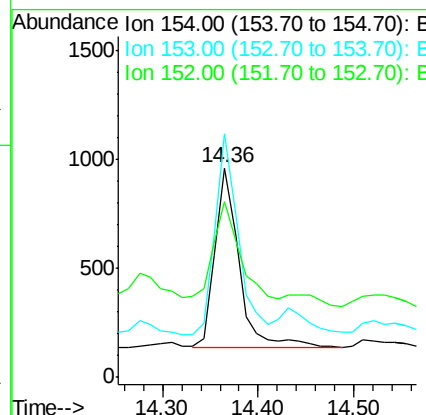
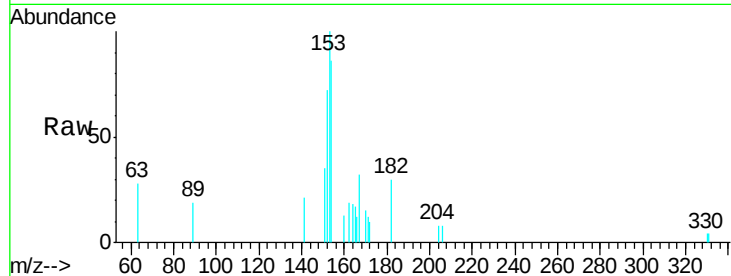
#17
Acenaphthene
Concen: 0.035 ng
RT: 14.36 min Scan# 1324
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
154	100		
153	108.0	87.0	130.4
152	60.0	42.7	64.1

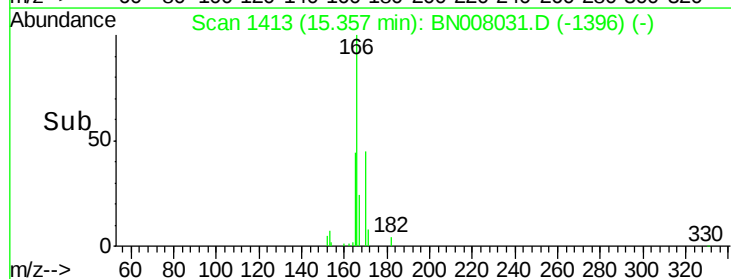
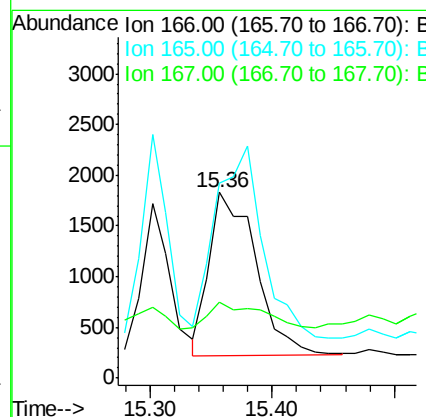
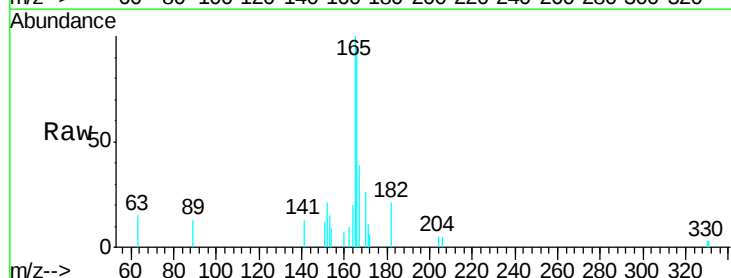
Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#18
Fluorene
Concen: 0.082 ng
RT: 15.36 min Scan# 1413
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	78.0	117.0#
167	18.3	10.9	16.3#





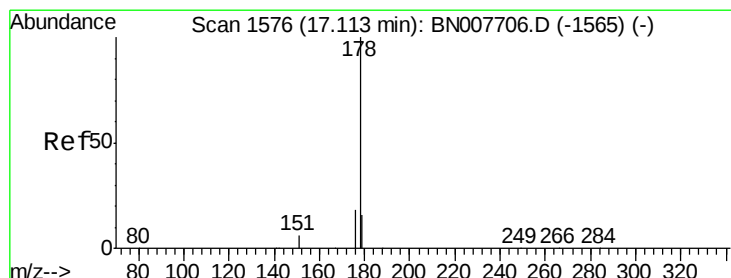
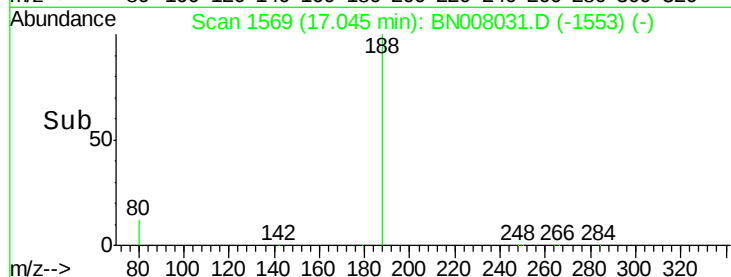
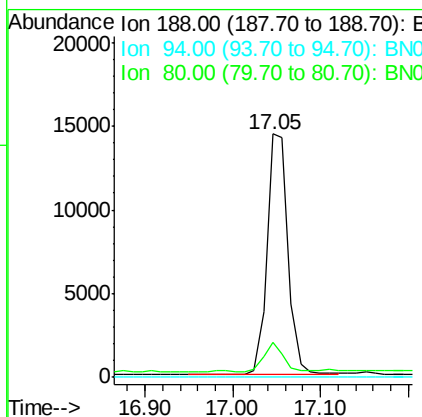
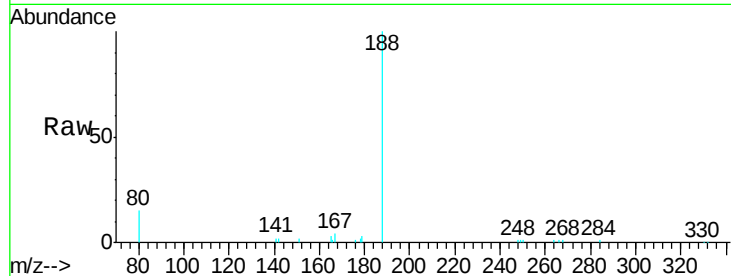
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1569
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	14.6	7.4	11.2

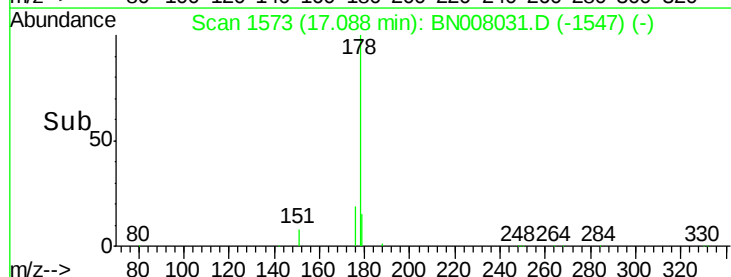
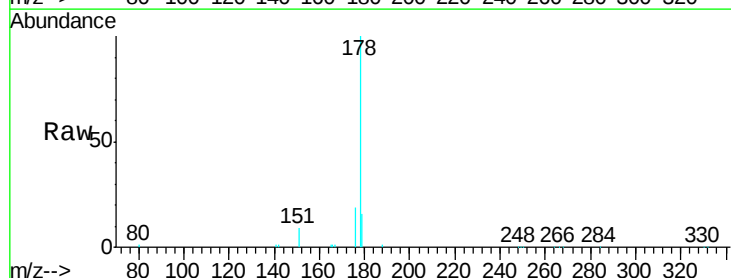
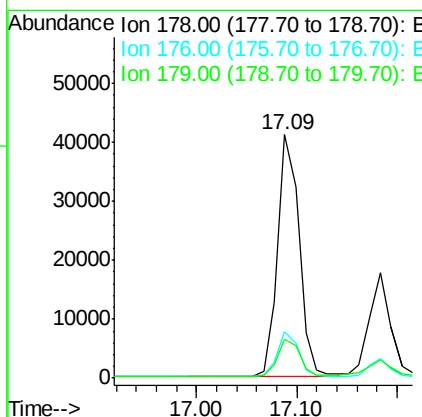
Manual Integrations
APPROVED

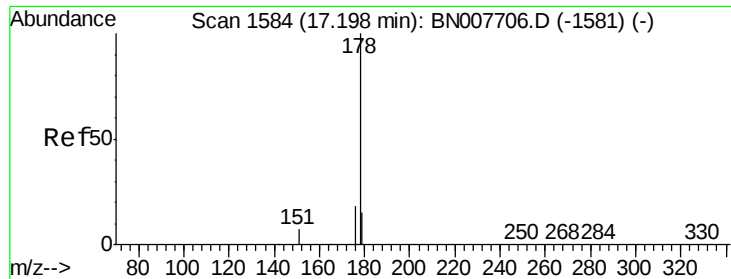
mohammad
10/7/2019 4:39:52 PM



#23
Phenanthrene
Concen: 0.817 ng
RT: 17.09 min Scan# 1573
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

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





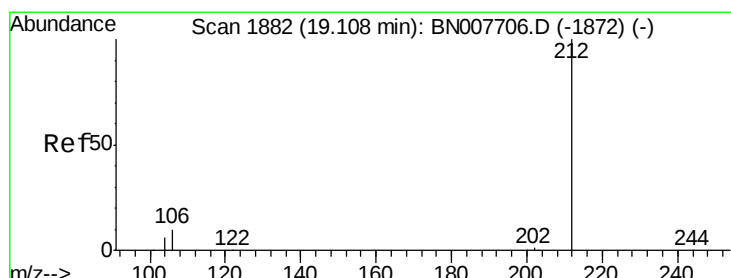
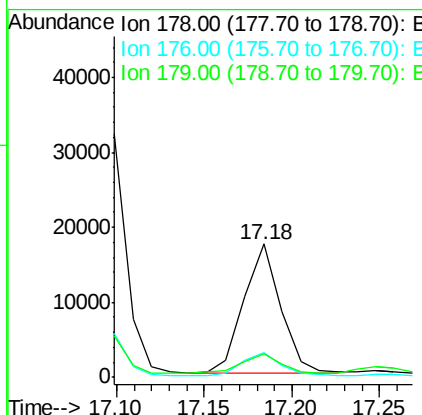
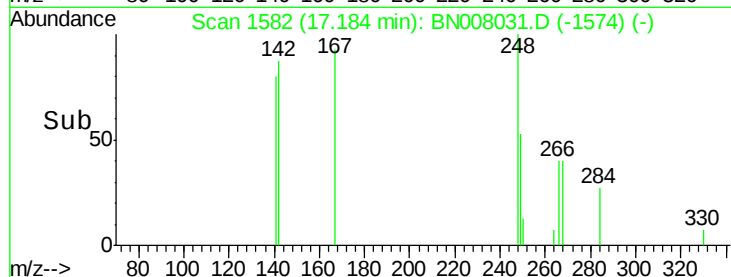
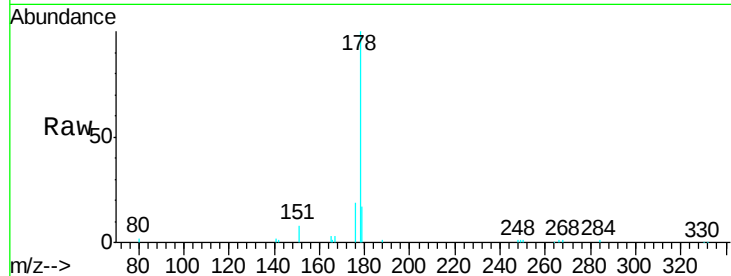
#24
 Anthracene
 Concen: 0.364 ng
 RT: 17.18 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BN008031.D
 Acq: 05 Oct 2019 18:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.6	21.8
179	15.8	12.2	18.4

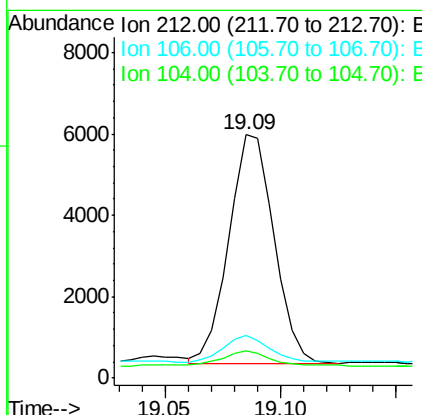
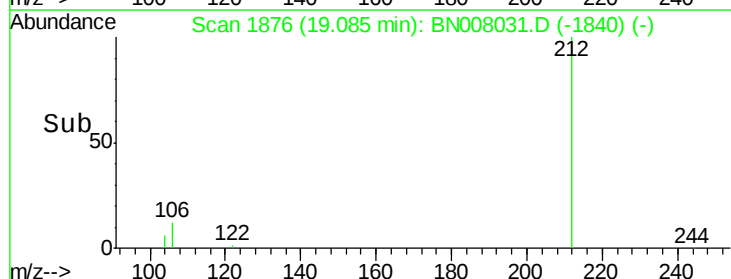
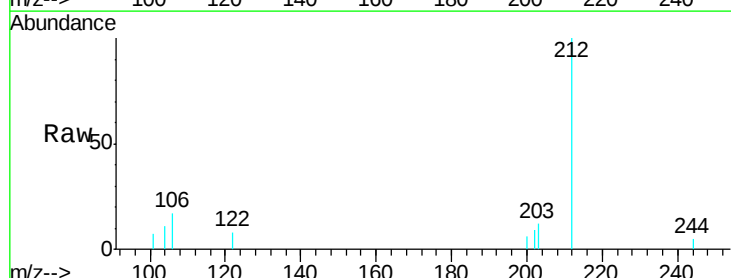
Manual Integrations
 APPROVED

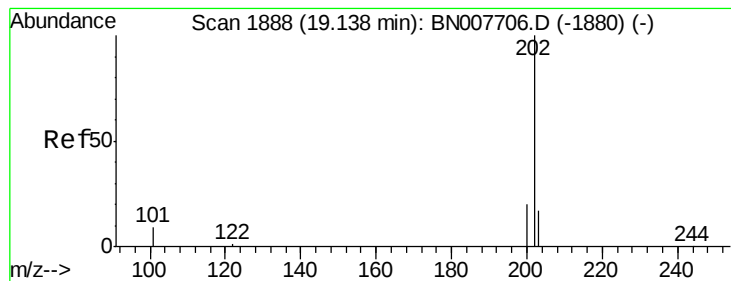
mohammad
 10/7/2019 4:39:52 PM



#25
 Fluoranthene-d10
 Concen: 0.093 ng
 RT: 19.09 min Scan# 1876
 Delta R.T. -0.02 min
 Lab File: BN008031.D
 Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.4	14.0
104	9.0	5.3	7.9





#26

Fluoranthene

Concen: 1.465 ng

RT: 19.12 min Scan# 1883

Delta R.T. -0.02 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Instrument :

BNA_N

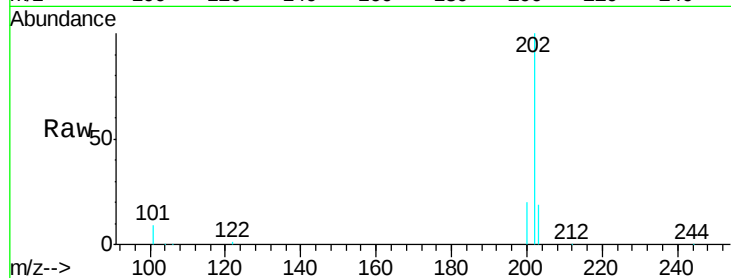
ClientSampleId :

EXT-024-SW068-092619RE

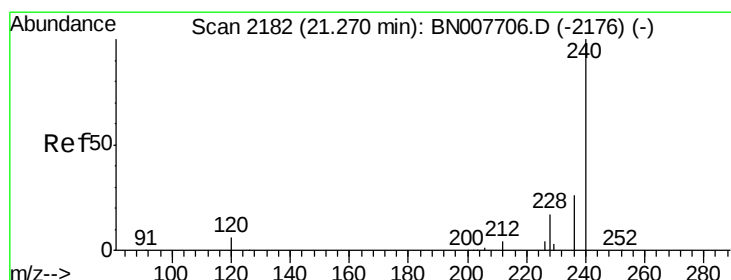
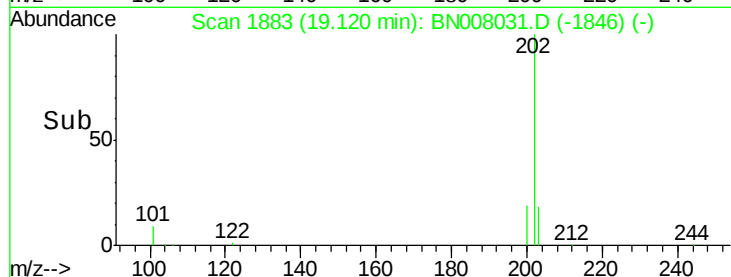
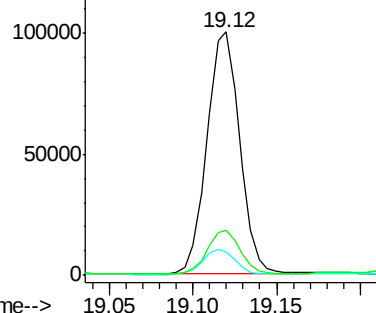
Tgt	Ion	202	Resp:	137550
Ion	Ratio	Lower	Upper	
202	100			
101	10.2	8.4	12.6	
203	17.8	13.8	20.8	

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



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



#27

Chrysene-d12

Concen: 0.400 ng

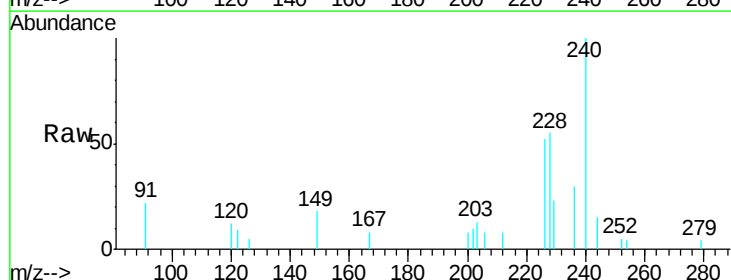
RT: 21.25 min Scan# 2179

Delta R.T. -0.02 min

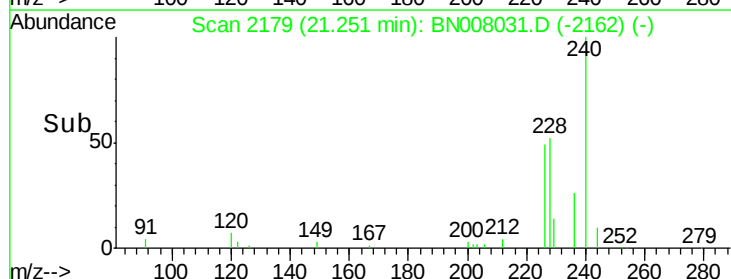
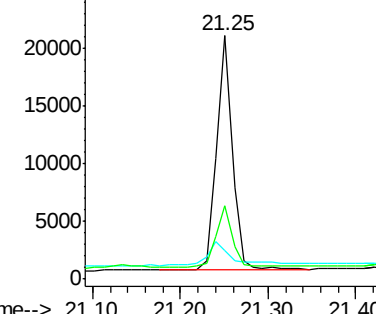
Lab File: BN008031.D

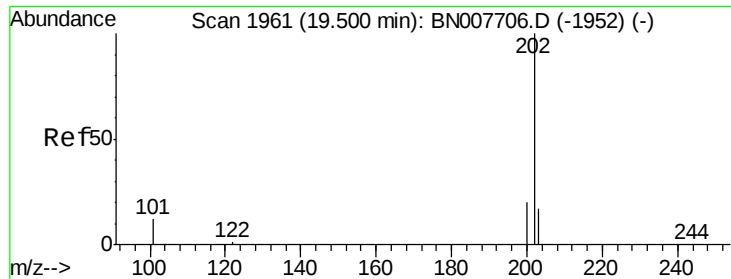
Acq: 05 Oct 2019 18:15

Tgt	Ion	240	Resp:	25660
Ion	Ratio	Lower	Upper	
240	100			
120	12.0	5.4	8.2#	
236	30.0	21.0	31.4	



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





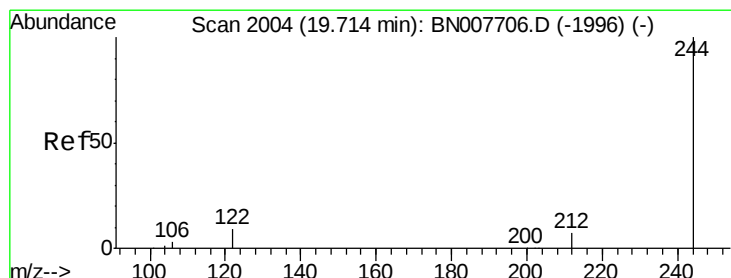
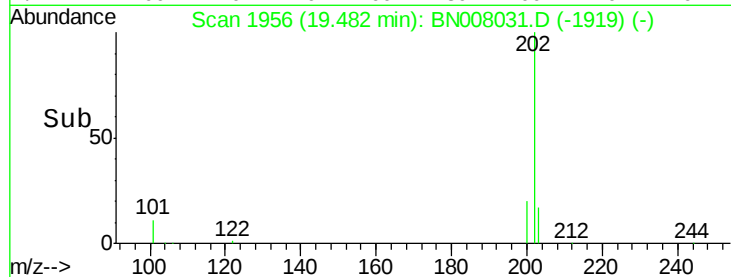
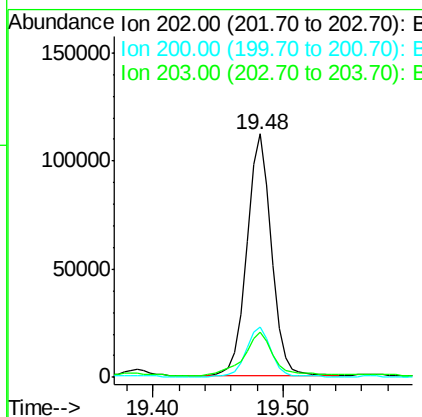
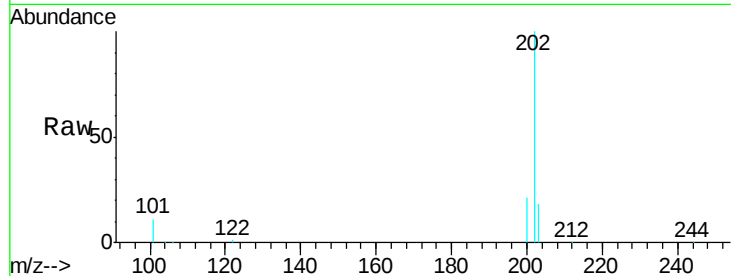
#28
 Pyrene
 Concen: 1.692 ng
 RT: 19.48 min Scan# 1956
 Delta R.T. -0.02 min
 Lab File: BN008031.D
 Acq: 05 Oct 2019 18:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW068-092619RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.6	16.4	24.6
203	21.0	14.1	21.1

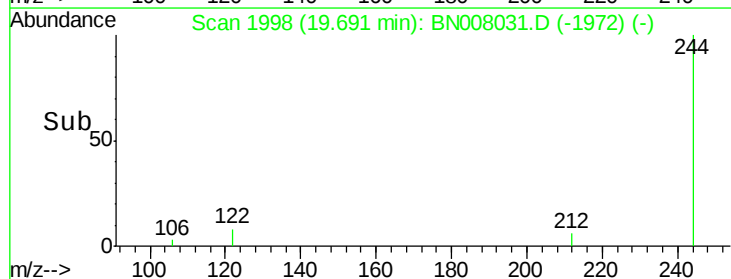
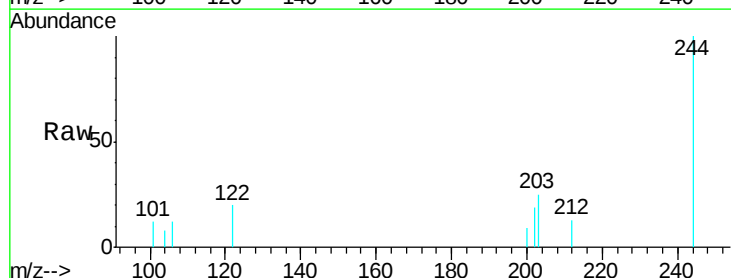
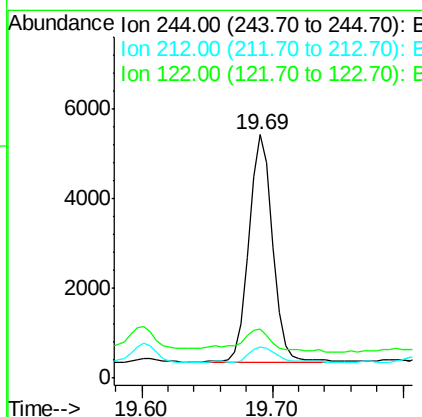
Manual Integrations
 APPROVED

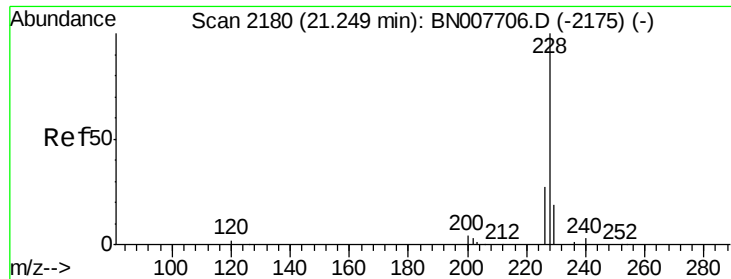
mohammad
 10/7/2019 4:39:52 PM



#29
 Terphenyl-d14
 Concen: 0.103 ng
 RT: 19.69 min Scan# 1998
 Delta R.T. -0.02 min
 Lab File: BN008031.D
 Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	12.8	5.9	8.9#
122	20.1	7.4	11.2#





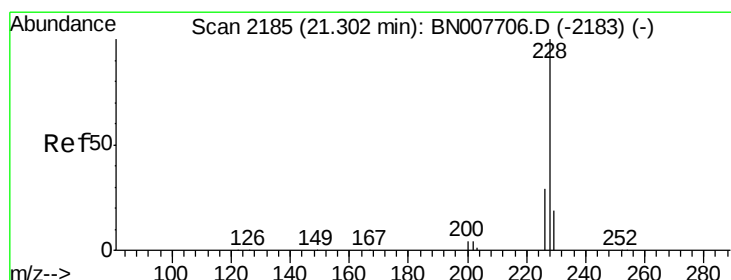
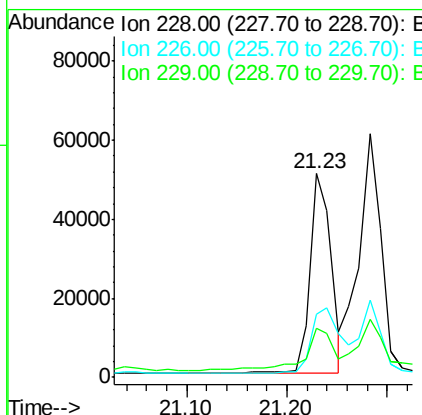
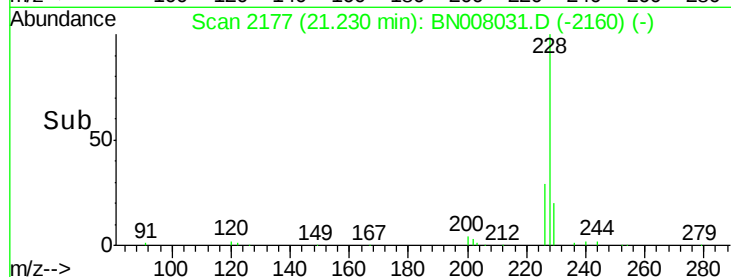
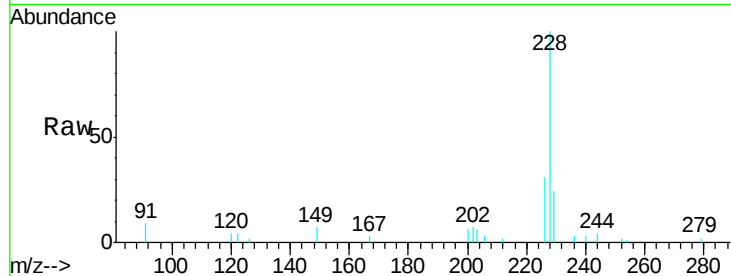
#30
Benzo(a)anthracene
Concen: 0.793 ng
RT: 21.23 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	22.1	33.1
229	23.9	15.8	23.6#

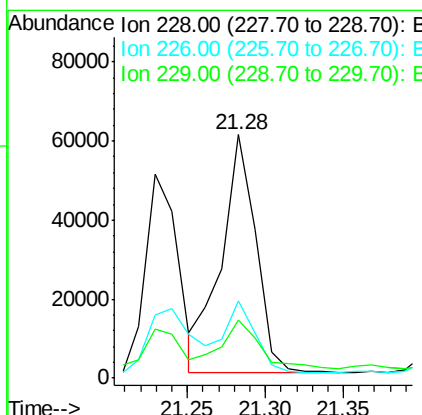
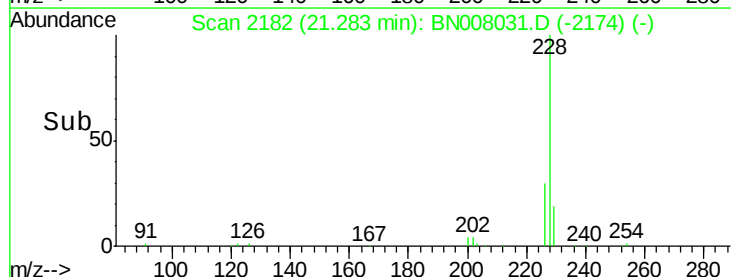
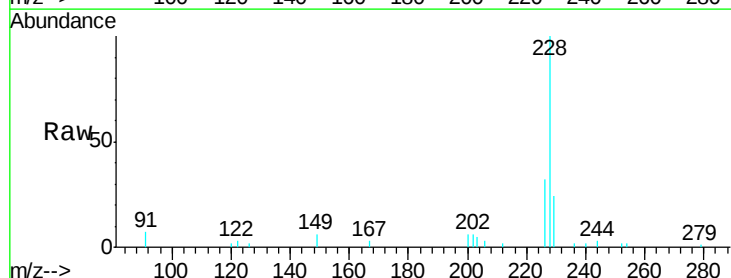
Manual Integrations
APPROVED

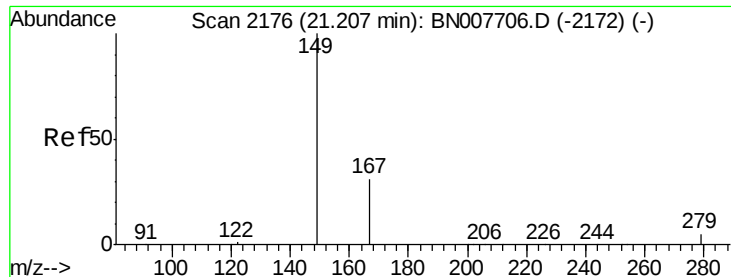
mohammad
10/7/2019 4:39:52 PM



#31
Chrysene
Concen: 1.007 ng
RT: 21.28 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	23.9	35.9
229	24.0	15.8	23.6#





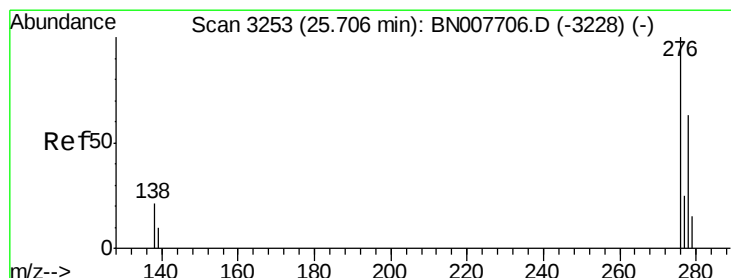
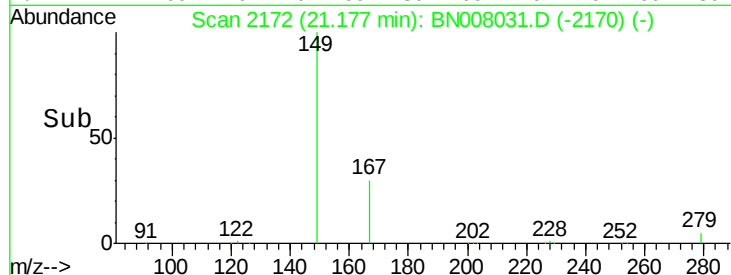
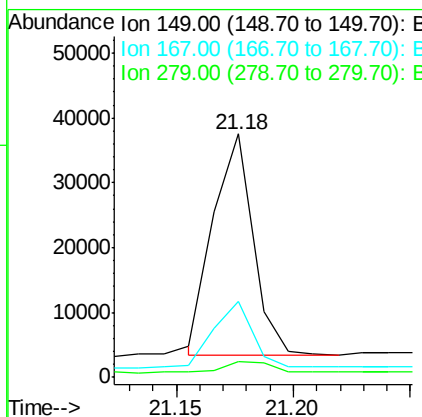
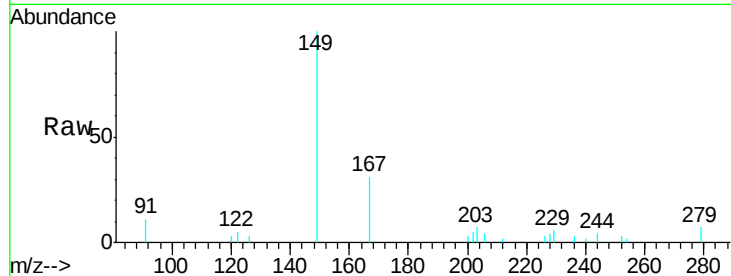
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.829 ng
 RT: 21.18 min Scan# 2172
 Delta R.T. -0.03 min
 Lab File: BN008031.D
 Acq: 05 Oct 2019 18:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.5	23.7	35.5
279	5.3	4.2	6.2

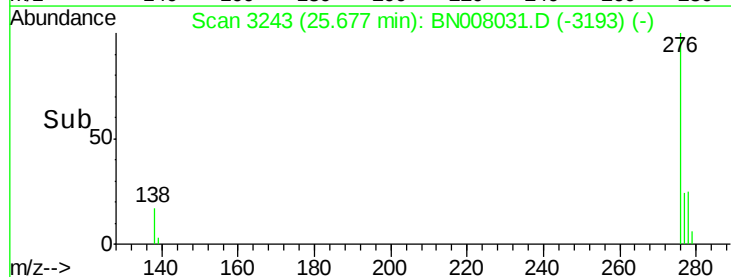
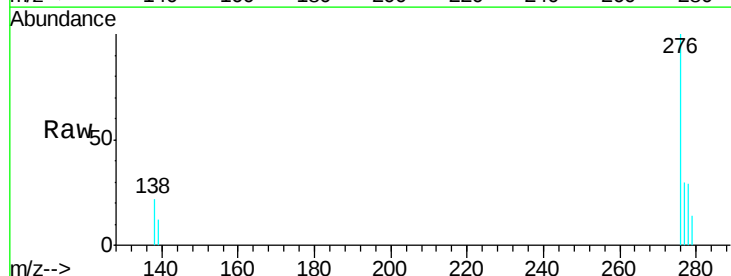
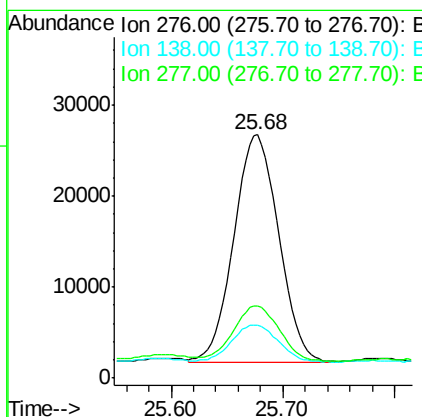
Manual Integrations
 APPROVED

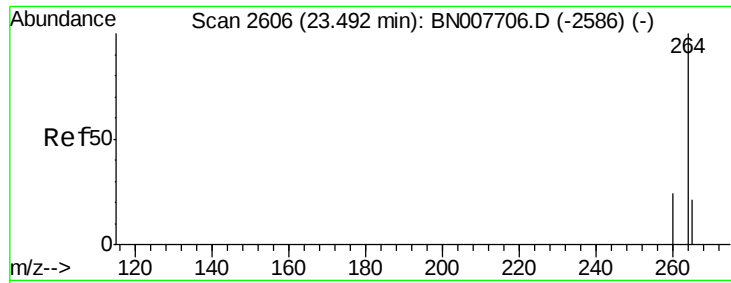
mohammad
 10/7/2019 4:39:52 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.600 ng
 RT: 25.68 min Scan# 3243
 Delta R.T. -0.03 min
 Lab File: BN008031.D
 Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.9	17.1	25.7#
277	24.9	20.0	30.0





#34

Perylene-d12

Concen: 0.400 ng

RT: 23.47 min Scan# 2597

Delta R.T. -0.03 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW068-092619RE

Tgt Ion: 264 Resp: 28815

Ion Ratio Lower Upper

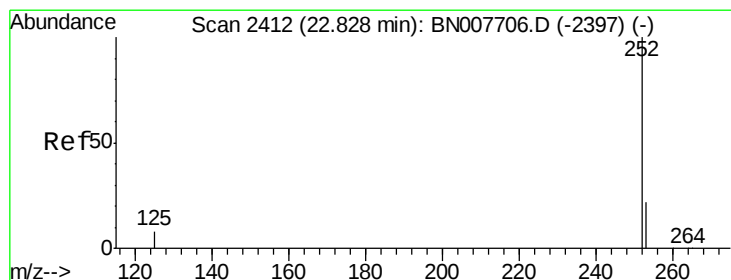
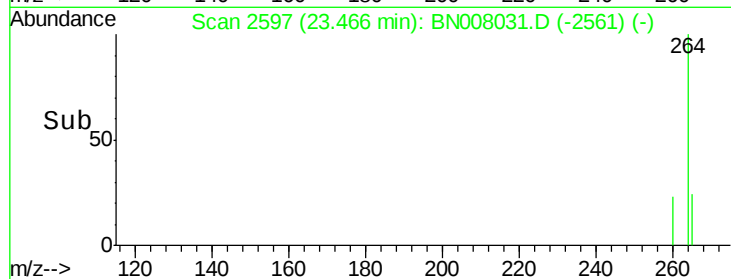
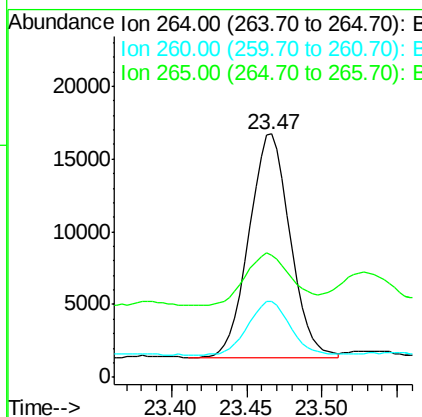
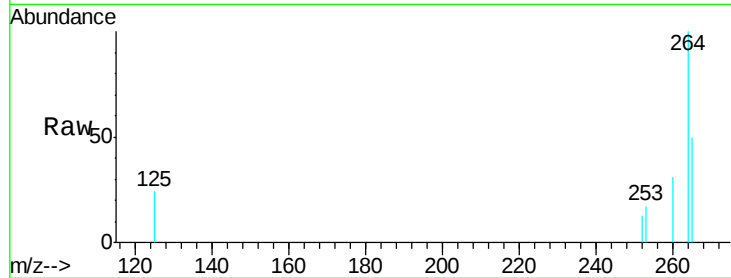
264 100

260 31.1 19.3 28.9#

265 50.4 26.9 40.3#

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#35

Benzo(b)fluoranthene

Concen: 1.244 ng

RT: 22.81 min Scan# 2404

Delta R.T. -0.02 min

Lab File: BN008031.D

Acq: 05 Oct 2019 18:15

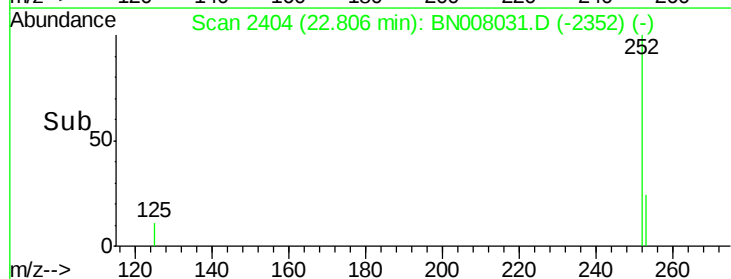
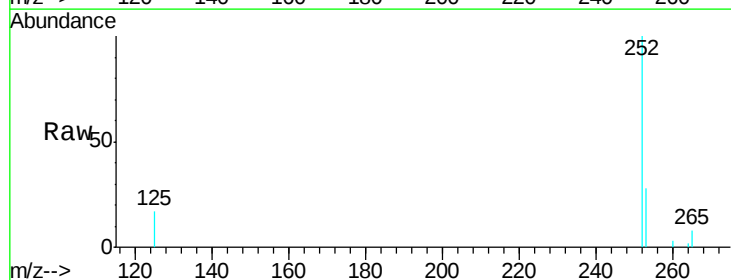
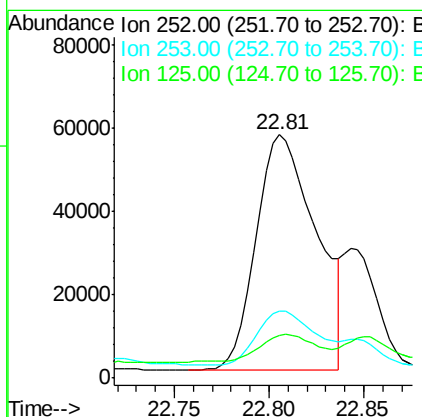
Tgt Ion: 252 Resp: 124426

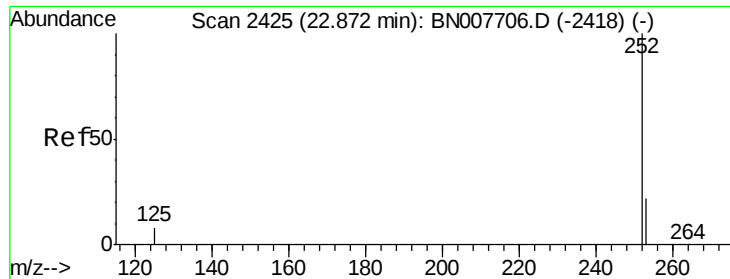
Ion Ratio Lower Upper

252 100

253 27.7 18.3 27.5#

125 17.4 8.2 12.4#





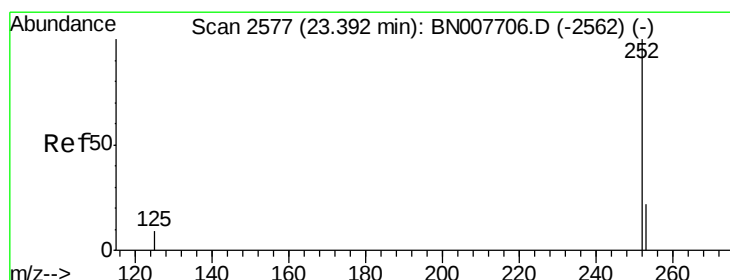
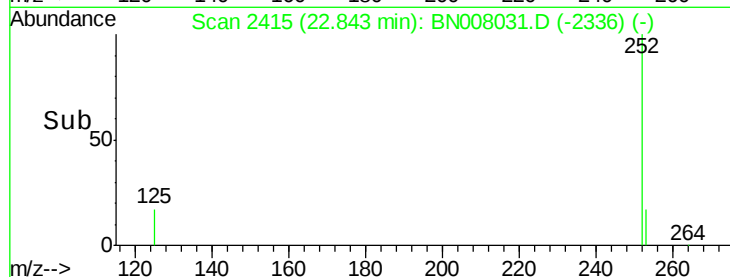
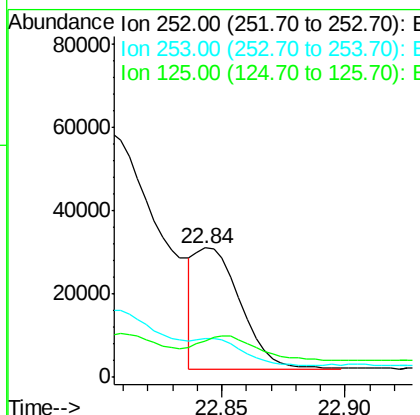
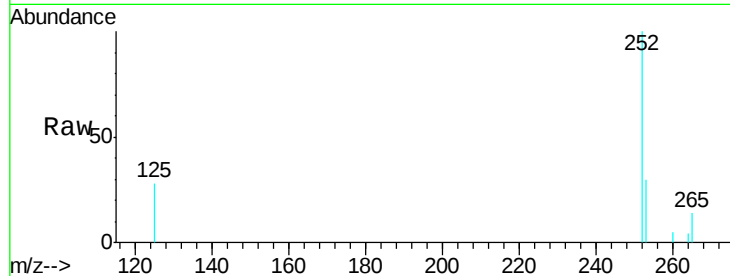
#36
Benzo(k)fluoranthene
Concen: 0.387 ng m
RT: 22.84 min Scan# 2415
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.1	18.5	27.7#
125	28.4	8.4	12.6#

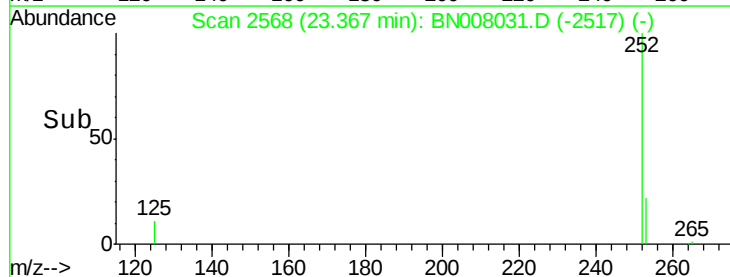
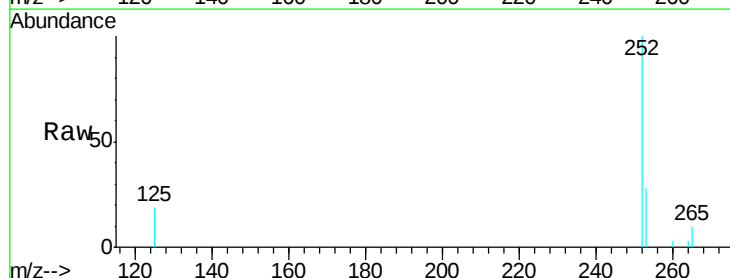
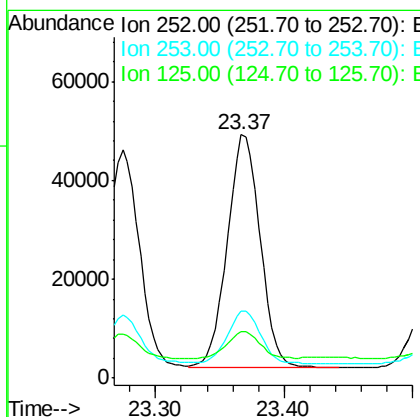
Manual Integrations
APPROVED

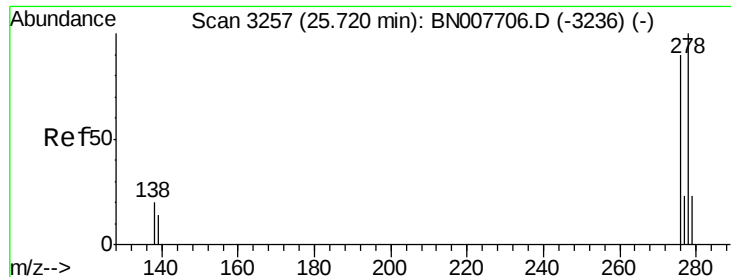
mohammad
10/7/2019 4:39:52 PM



#37
Benzo(a)pyrene
Concen: 0.893 ng
RT: 23.37 min Scan# 2568
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.6	18.6	27.8
125	19.1	9.4	14.0#





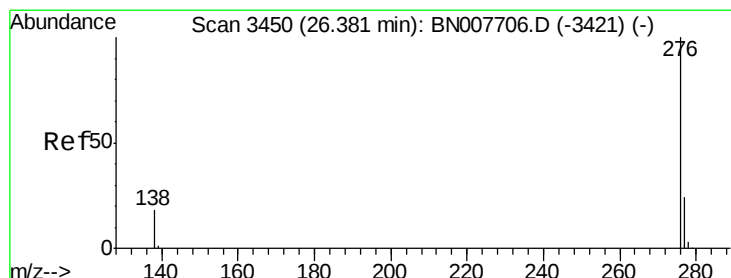
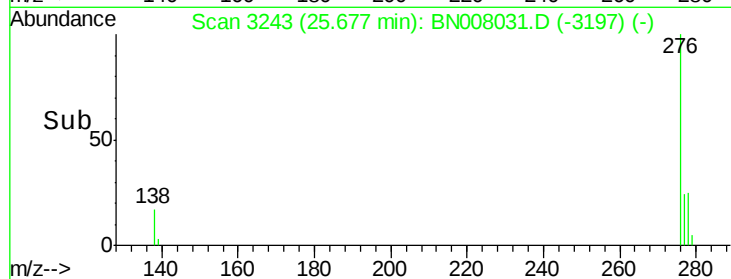
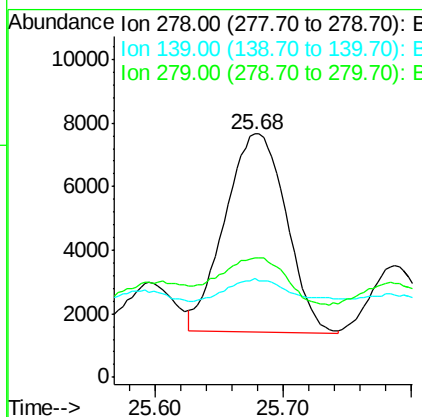
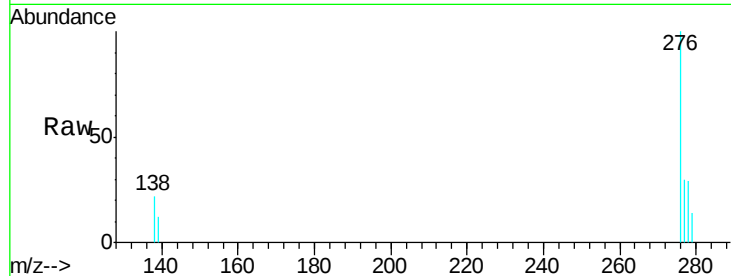
#38
Dibenzo(a,h)anthracene
Concen: 0.216 ng
RT: 25.68 min Scan# 3243
Delta R.T. -0.04 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW068-092619RE

Tgt Ion	Ratio	Lower	Upper
278	100		
139	40.6	11.8	17.6#
279	49.0	19.4	29.2#

Manual Integrations
APPROVED

mohammad
10/7/2019 4:39:52 PM



#39
Benzo(g,h,i)perylene
Concen: 0.880 ng
RT: 26.36 min Scan# 3441
Delta R.T. -0.03 min
Lab File: BN008031.D
Acq: 05 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.8	19.8	29.8
138	21.4	15.1	22.7

