

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082419\
 Data File : BN007365.D
 Acq On : 24 Aug 2019 16:07
 Operator : HP/JU
 Sample : K4470-11DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S703-N-0.0-0.5-082119DL

Manual Integrations
 APPROVED

mohammad
 8/31/2019 2:40:07 PM

Quant Time: Aug 25 00:14:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 24 00:38:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	6002	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	25477	0.40	ng	-0.01
13) Acenaphthene-d10	14.04	164	13887	0.40	ng	-0.01
19) Phenanthrene-d10	16.80	188	30687	0.40	ng	0.00
27) Chrysene-d12	21.02	240	30891	0.40	ng	0.00
34) Perylene-d12	23.12	264	33384	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.04	112	408	-0.01	ng	0.00
5) Phenol-d6	6.60	99	493	-0.01	ng	0.00
8) Nitrobenzene-d5	8.54	82	326	0.01	ng	0.01
11) 2-Methylnaphthalene-d10	11.76	152	695	0.02	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	140	0.02	ng	-0.01
15) 2-Fluorobiphenyl	12.66	172	861	0.02	ng	0.00
25) Fluoranthene-d10	18.84	212	1391	0.01	ng	0.00
29) Terphenyl-d14	19.46	244	1093	0.01	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.20	128	2145	0.029	ng	# 93
16) Acenaphthylene	13.76	152	2339	0.028	ng	98
17) Acenaphthene	14.11	154	9233	0.192	ng	98
18) Fluorene	15.10	166	9803	0.161	ng	100
23) Phenanthrene	16.84	178	218454	2.367	ng	99
24) Anthracene	16.93	178	31318	0.337	ng	# 90
26) Fluoranthene	18.88	202	444002	3.746	ng	100
28) Pyrene	19.24	202	369050	2.970	ng	# 95
30) Benzo(a)anthracene	21.01	228	200096	1.649	ng	99
31) Chrysene	21.06	228	193456	1.652	ng	98
32) Bis(2-ethylhexyl)phthalate	20.97	149	3807	0.029	ng	# 92
33) Indeno(1,2,3-cd)pyrene	25.19	276	120297	0.853	ng	97
35) Benzo(b)fluoranthene	22.51	252	257981	2.133	ng	# 95
36) Benzo(k)fluoranthene	22.55	252	96556m	0.808	ng	
37) Benzo(a)pyrene	23.03	252	172106m	1.495	ng	
38) Dibenzo(a,h)anthracene	25.20	278	30332	0.264	ng	# 91
39) Benzo(a,h,i)perylene	25.82	276	116641	1.019	ng	96

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

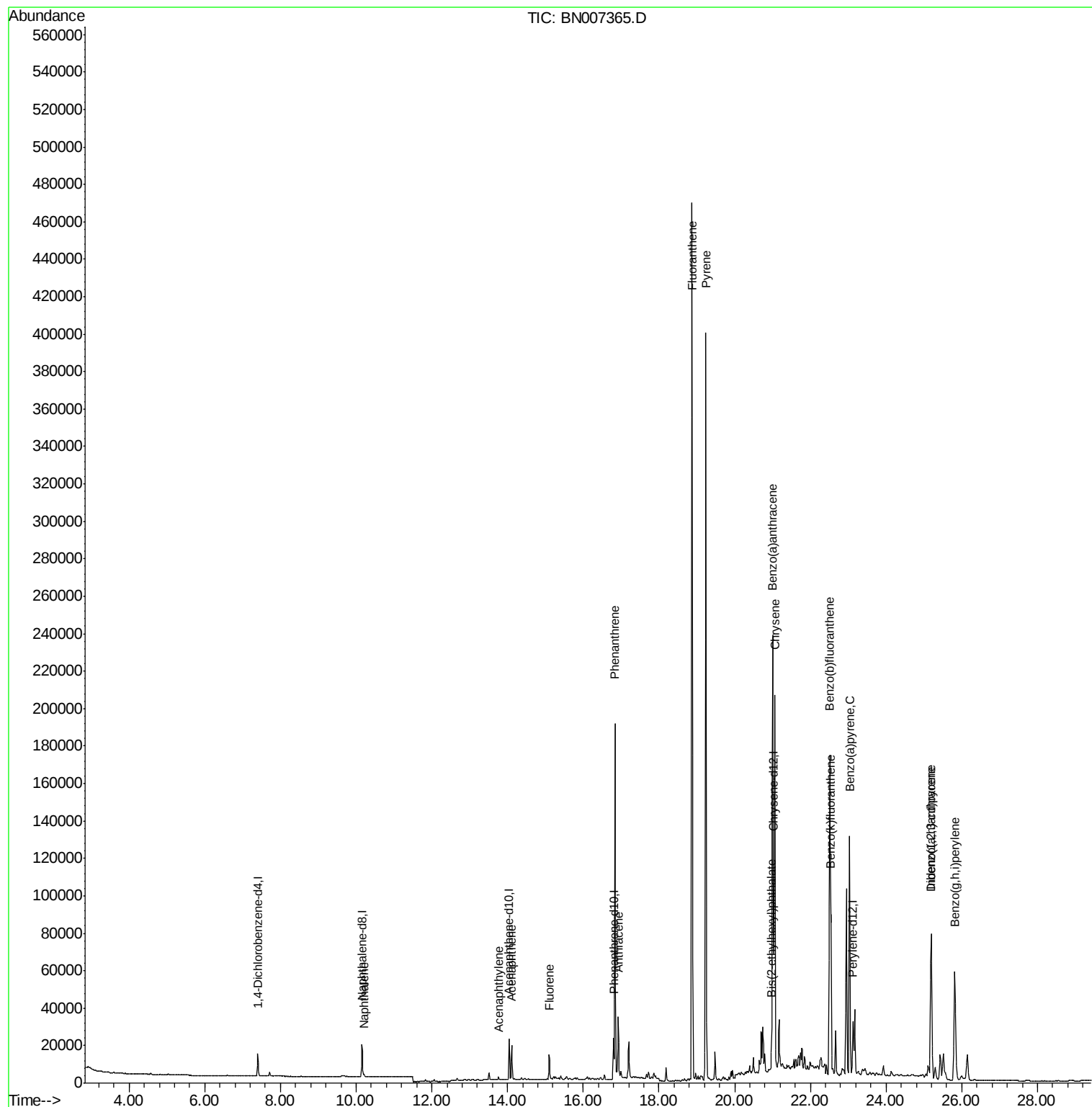
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082419\
Data File : BN007365.D
Acq On : 24 Aug 2019 16:07
Operator : HP/JU
Sample : K4470-11DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM

Quant Time: Aug 25 00:14:24 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 00:38:17 2019
Response via : Initial Calibration





#1

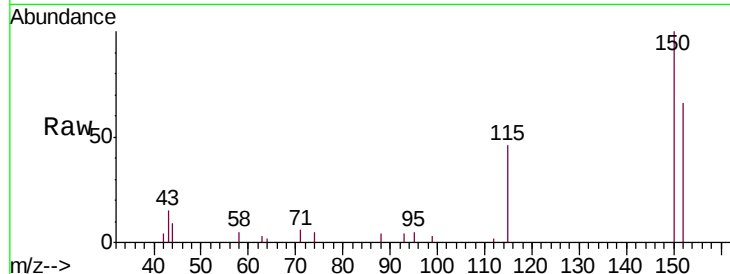
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.40 min Scan# 568
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

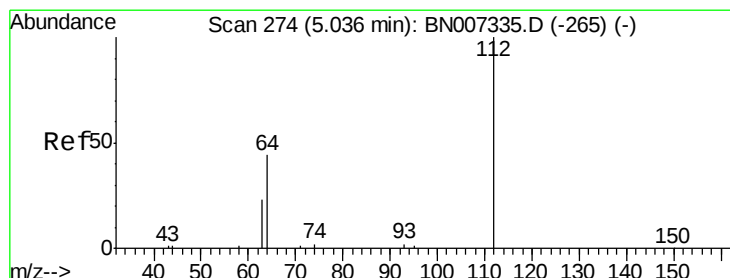
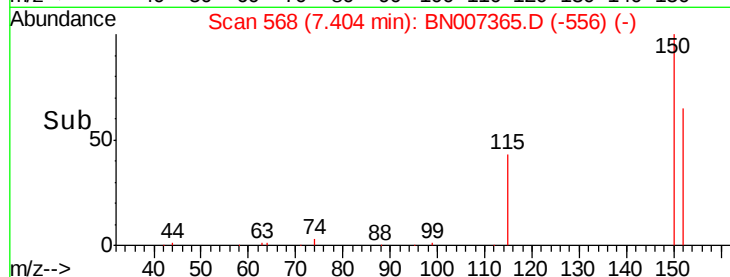
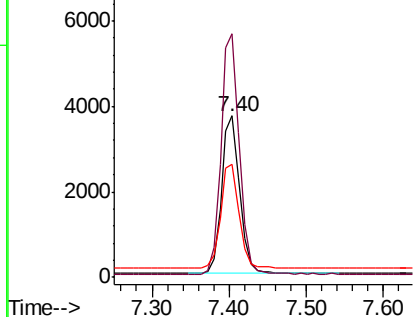
Tot Ion	Ratio	Lower	Upper
152	100		
150	151.0	109.1	163.7
115	69.8	59.6	89.4

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



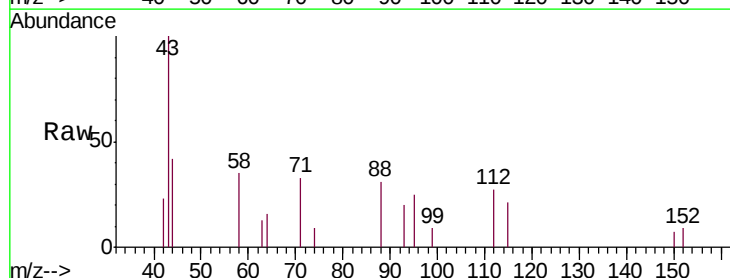
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



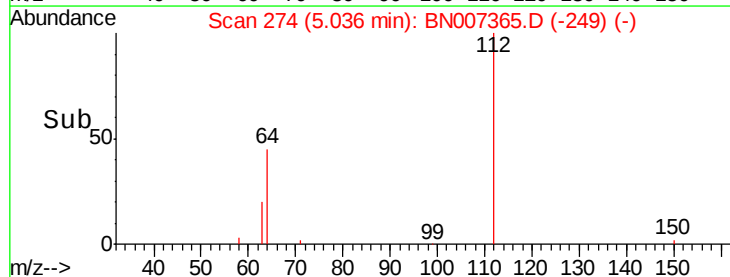
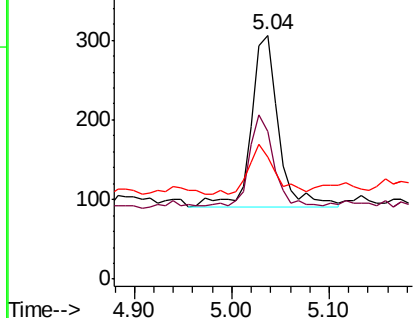
#4

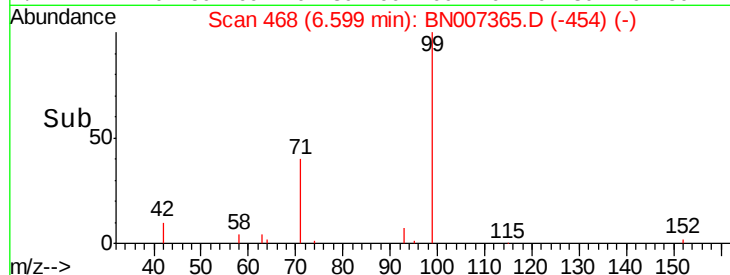
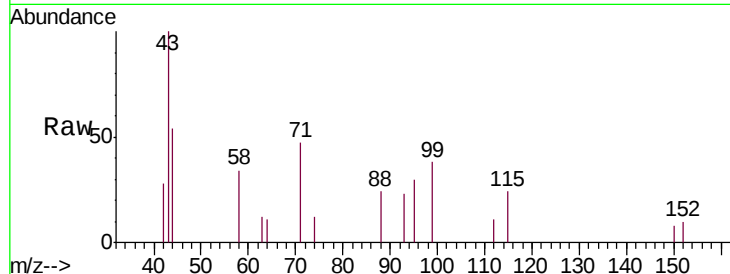
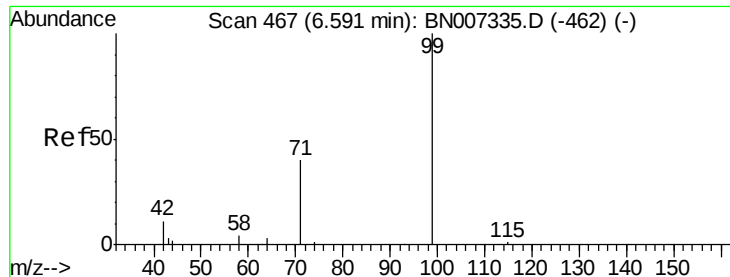
2-Fluorophenol
Concen: -0.009 ng
RT: 5.04 min Scan# 274
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.6	42.3	63.5
63	27.5	23.6	35.4



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: -0.013 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.01 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Tot Ion:	99	Resp:	493
Ion	Ratio	Lower	Upper
99	100		
42	17.0	11.2	16.8#
71	43.0	31.8	47.8

Instrument :

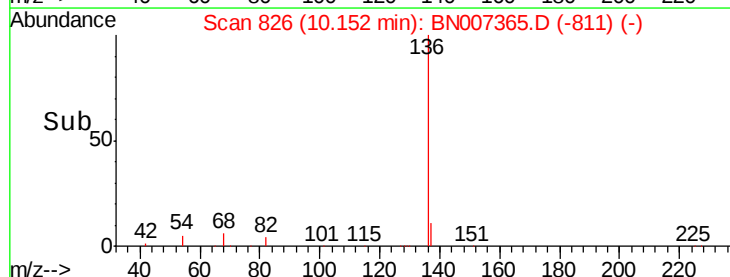
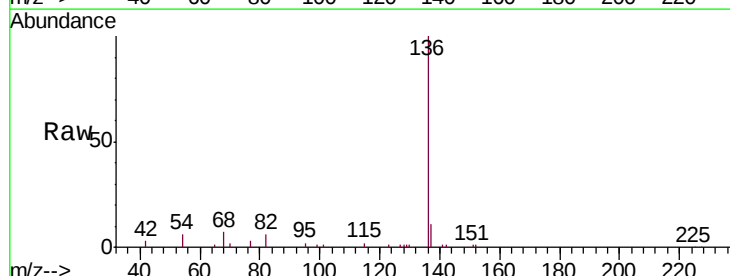
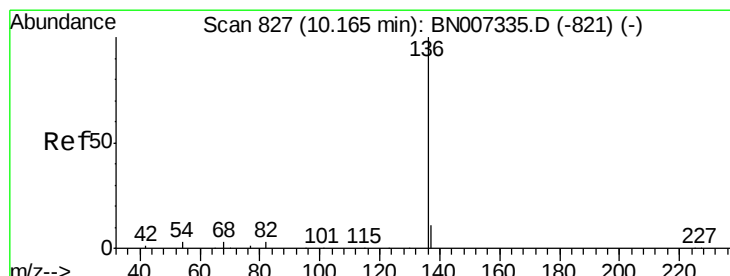
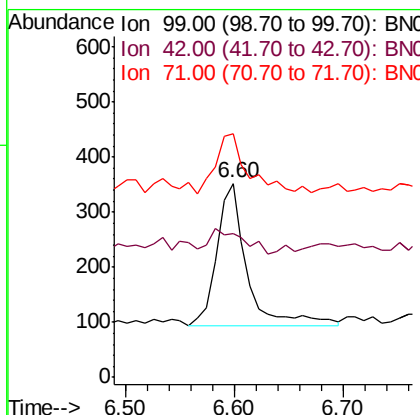
BNA_N

ClientSampleId :

S703-N-0.0-0.5-082119DL

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



#7

Naphthalene-d8

Concen: 0.400 ng

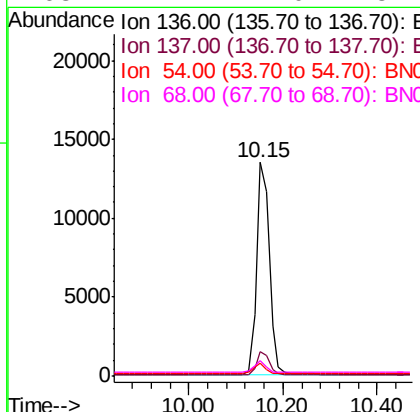
RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Tgt Ion:	136	Resp:	25477
Ion	Ratio	Lower	Upper
136	100		
137	11.3	12.9	19.3#
54	6.0	8.6	12.8#
68	7.1	17.0	25.4#





#8

Nitrobenzene-d5

Concen: 0.015 ng

RT: 8.54 min Scan# 699

Delta R.T. 0.01 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

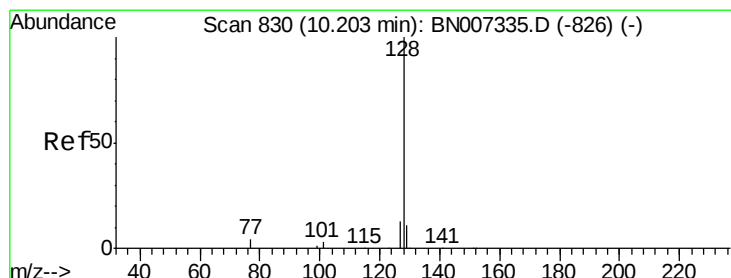
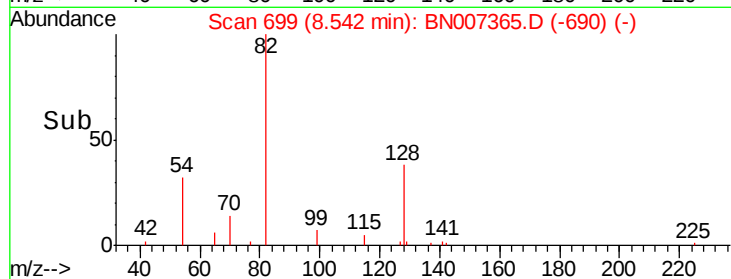
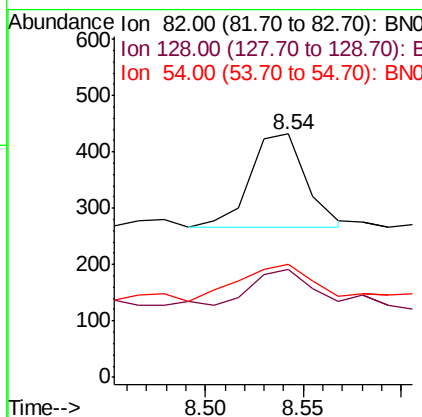
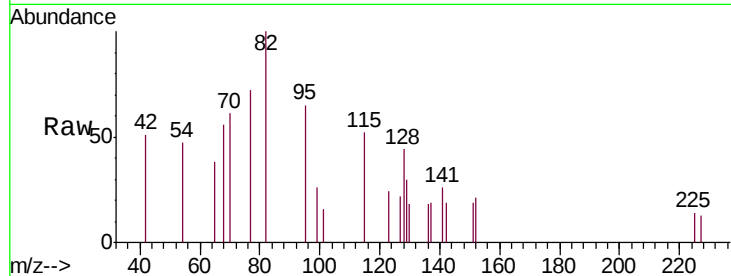
ClientSampleId :

S703-N-0.0-0.5-082119DL

Tot Ion:	82	Resp:	326
Ion	Ratio	Lower	Upper
82	100		
128	44.2	19.7	29.5#
54	46.5	25.8	38.6#

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



#9

Naphthalene

Concen: 0.029 ng

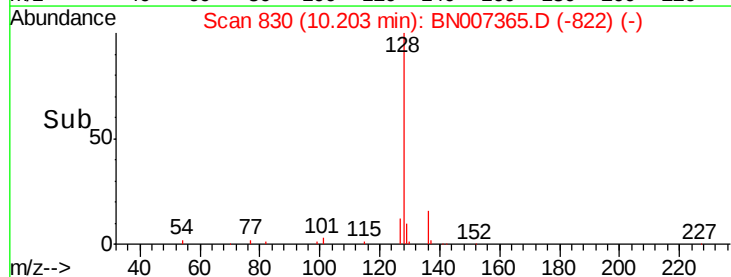
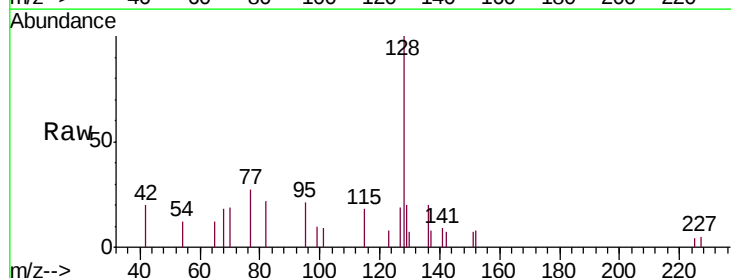
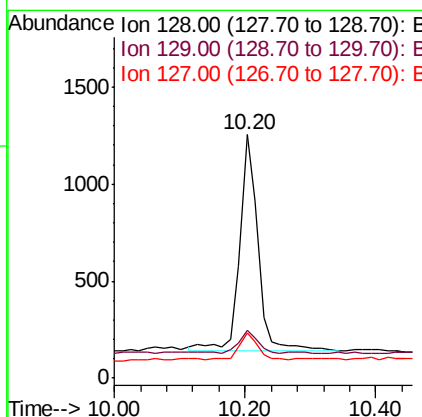
RT: 10.20 min Scan# 830

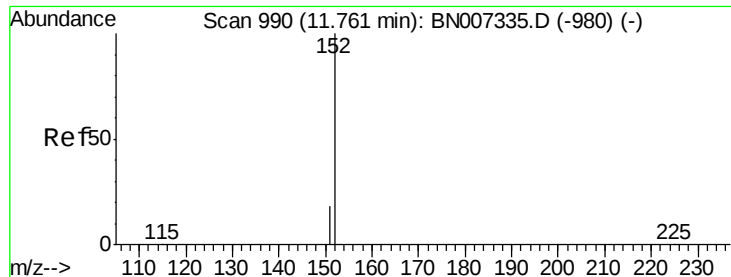
Delta R.T. 0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Tgt Ion:	128	Resp:	2145
Ion	Ratio	Lower	Upper
128	100		
129	19.8	11.1	16.7#
127	18.8	15.5	23.3





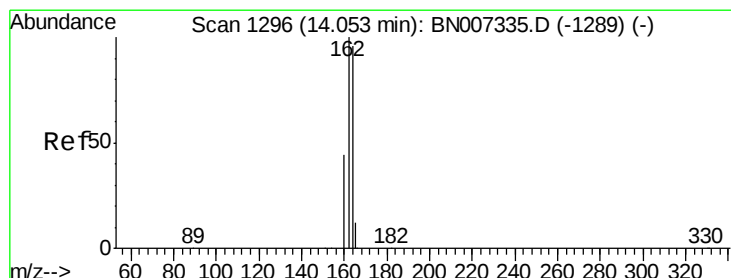
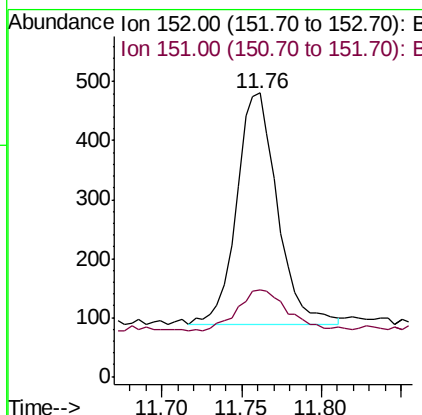
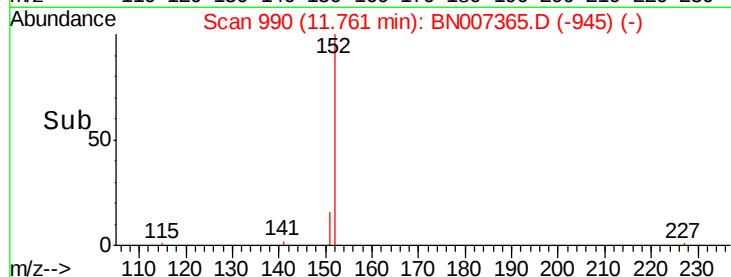
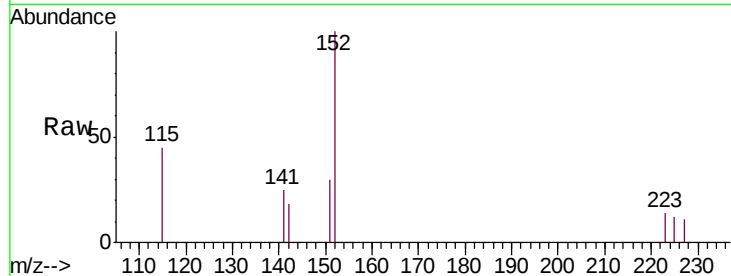
#11
2-Methylnaphthalene-d10
Concen: 0.016 ng
RT: 11.76 min Scan# 990
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	22.4	16.2	24.2

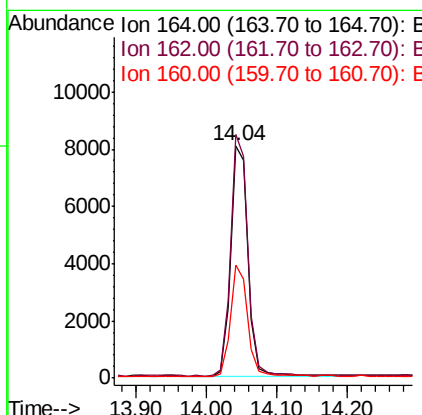
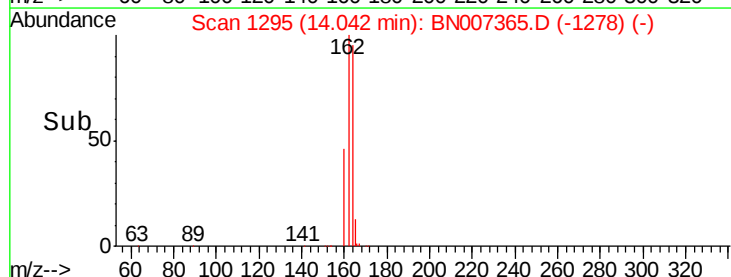
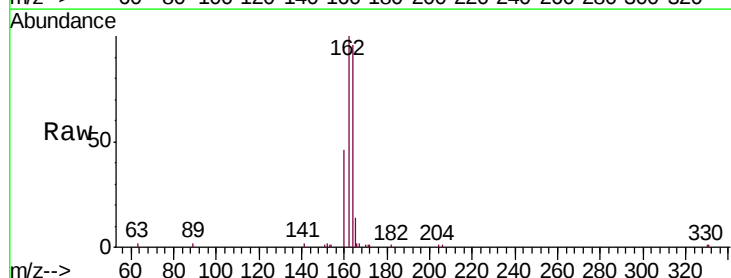
Manual Integrations
APPROVED

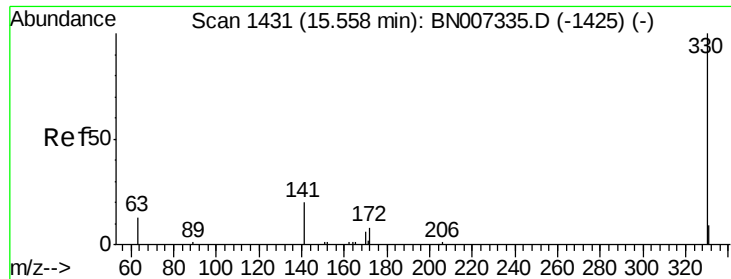
mohammad
8/31/2019 2:40:07 PM



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.04 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	83.5	125.3
160	48.6	38.2	57.4





#14

2,4,6-Tribromophenol

Concen: 0.019 ng

RT: 15.55 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

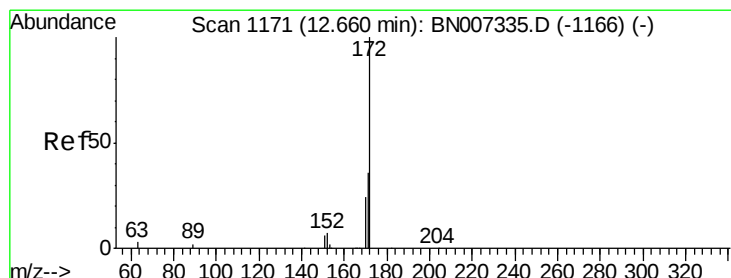
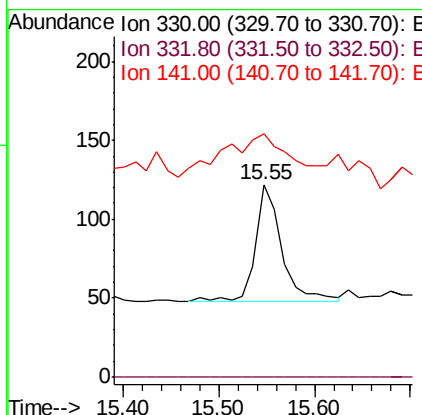
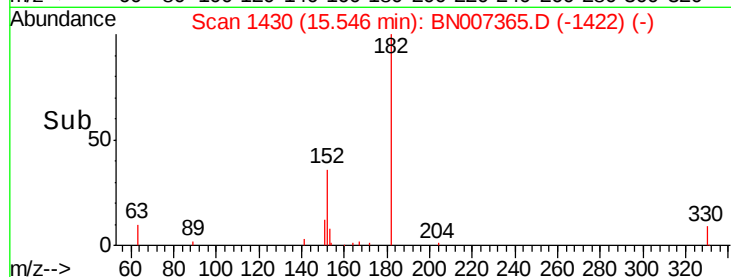
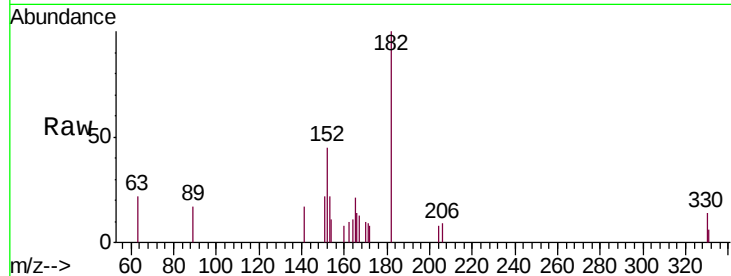
ClientSampleId :

S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	56.4	26.9	40.3#

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



#15

2-Fluorobiphenyl

Concen: 0.015 ng

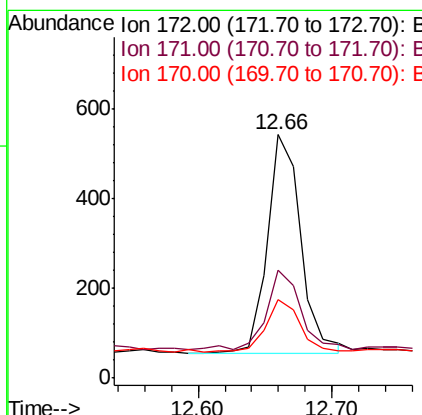
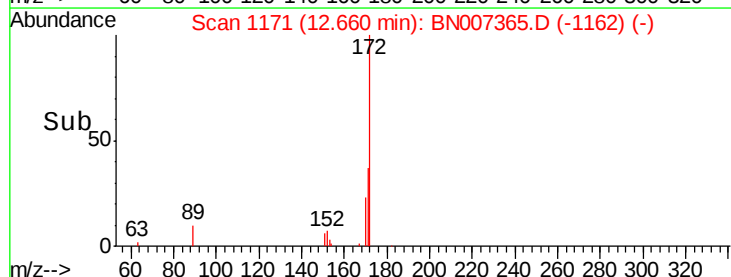
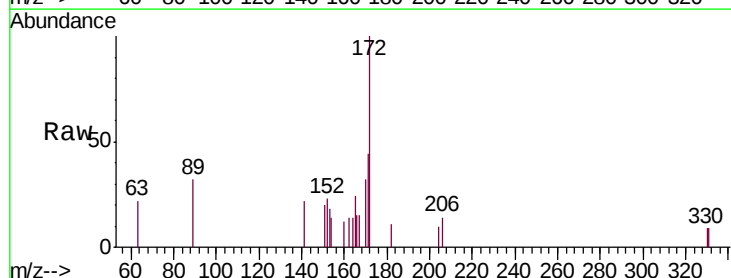
RT: 12.66 min Scan# 1171

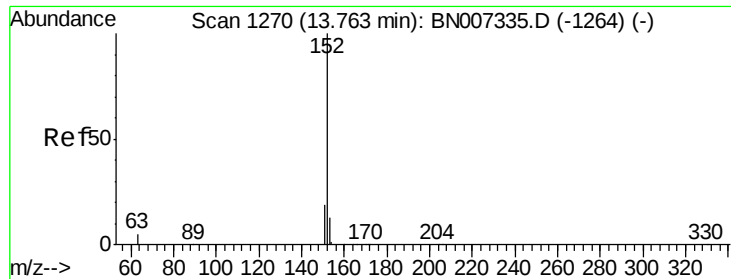
Delta R.T. 0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	44.4	30.3	45.5
170	32.0	20.7	31.1#





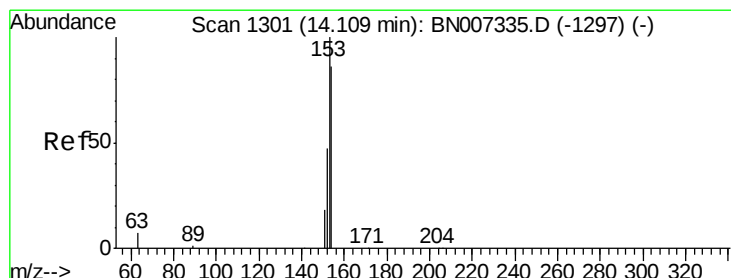
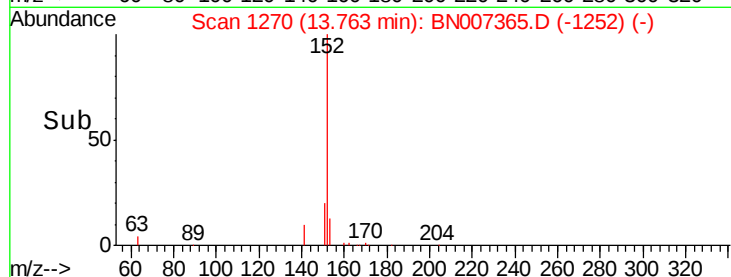
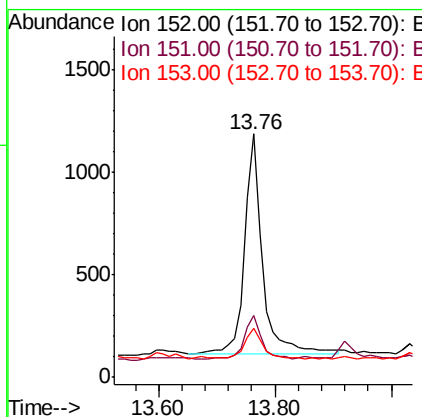
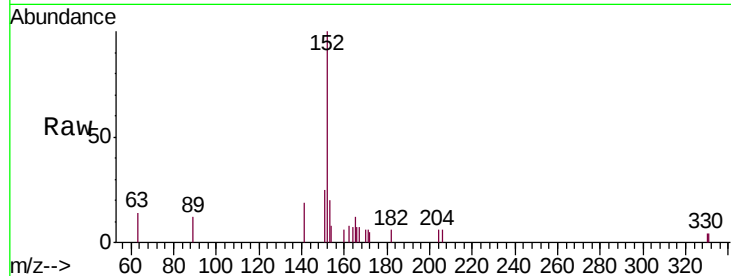
#16
Acenaphthylene
Concen: 0.028 ng
RT: 13.76 min Scan# 1270
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	18.8	16.1	24.1
153	13.9	10.6	15.8

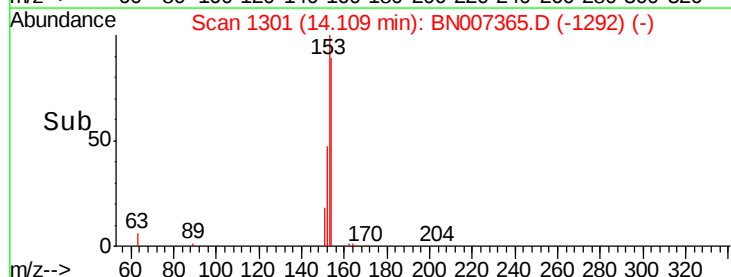
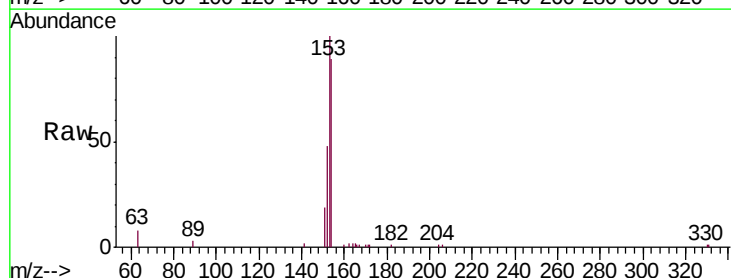
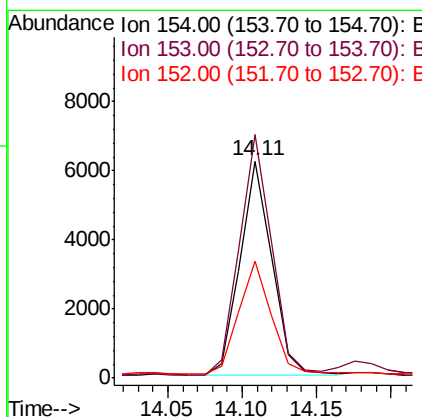
Manual Integrations
APPROVED

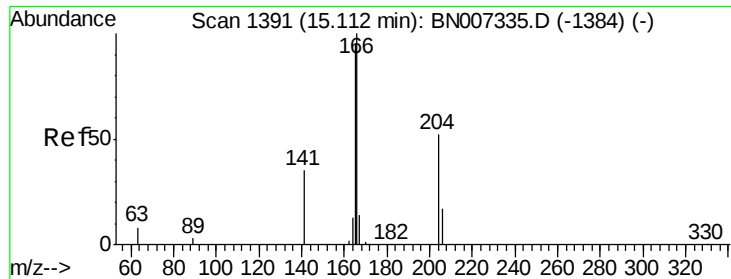
mohammad
8/31/2019 2:40:07 PM



#17
Acenaphthene
Concen: 0.192 ng
RT: 14.11 min Scan# 1301
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.0	92.8	139.2
152	54.0	43.8	65.8





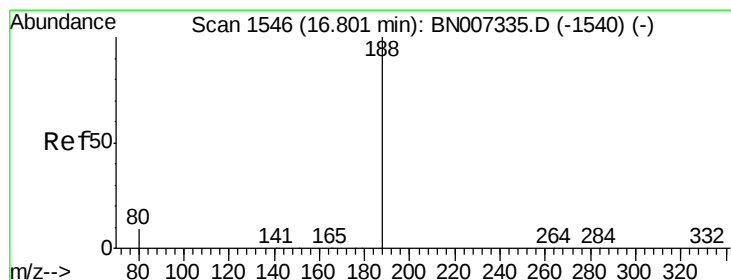
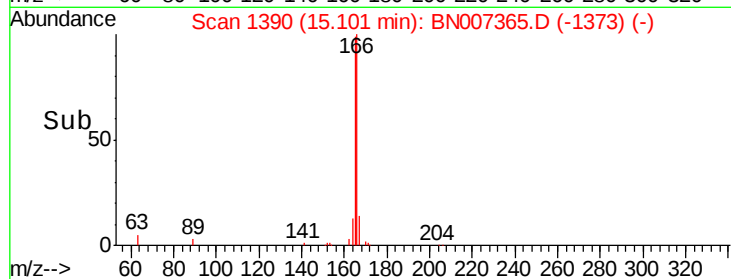
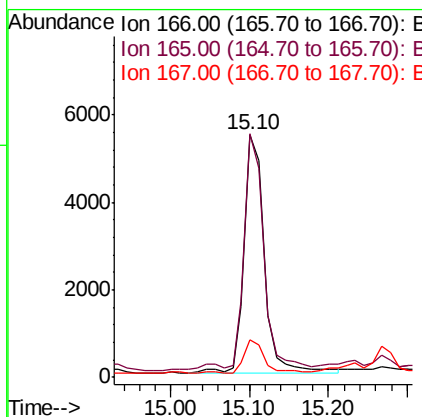
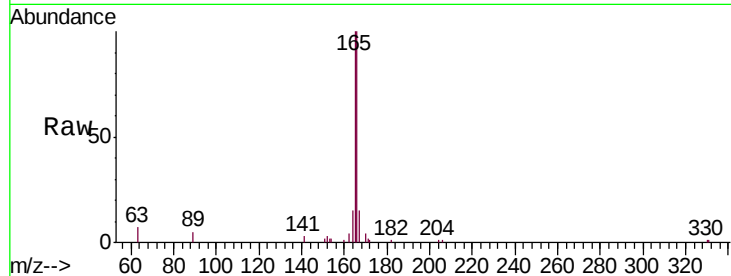
#18
Fluorene
Concen: 0.161 ng
RT: 15.10 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.0	118.4
167	13.8	10.6	15.8

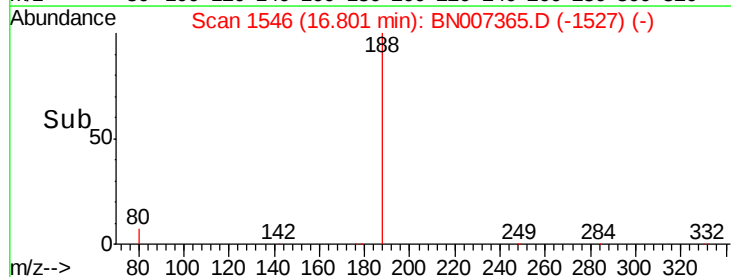
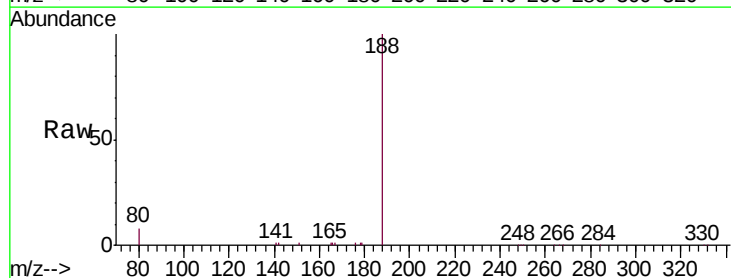
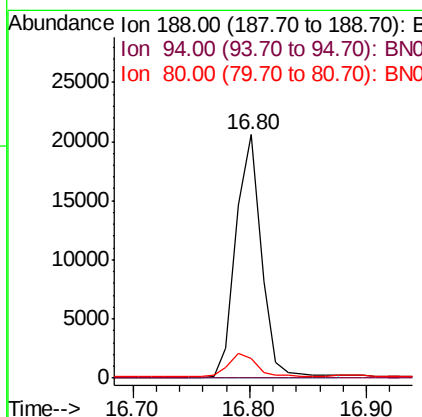
Manual Integrations
APPROVED

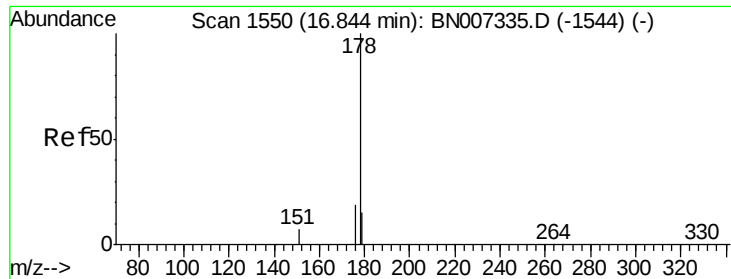
mohammad
8/31/2019 2:40:07 PM



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.80 min Scan# 1546
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	11.8	17.8#





#23

Phenanthrene

Concen: 2.367 ng

RT: 16.84 min Scan# 1550

Delta R.T. 0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

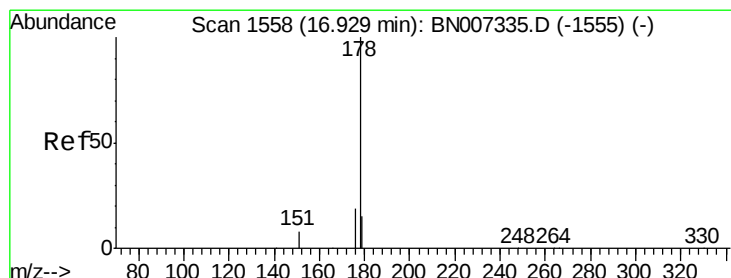
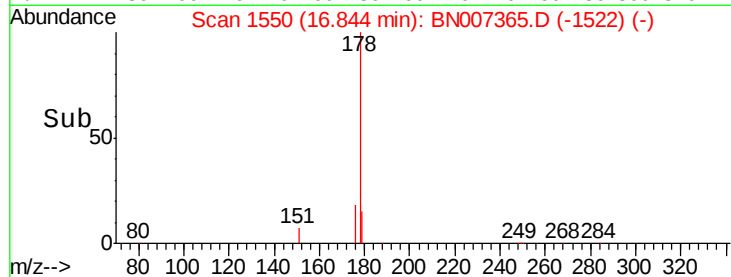
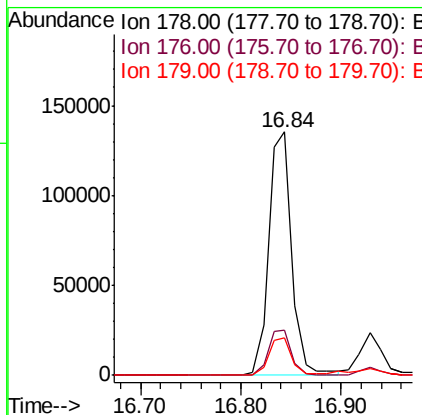
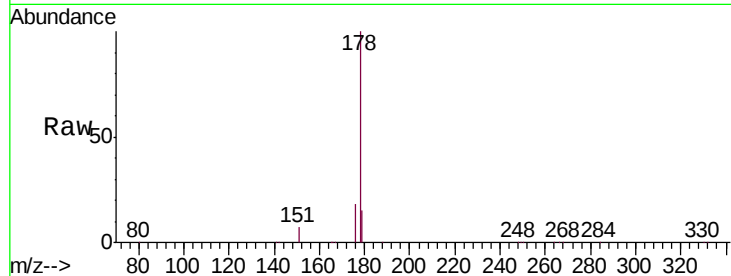
ClientSampleId :

S703-N-0.0-0.5-082119DL

Tot Ion:	178	Resp:	218454
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.3	22.9
179	15.1	12.6	19.0

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



#24

Anthracene

Concen: 0.337 ng

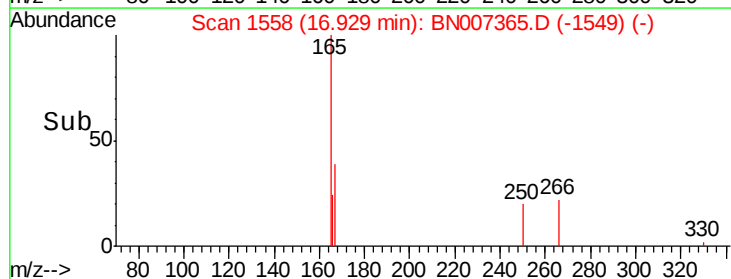
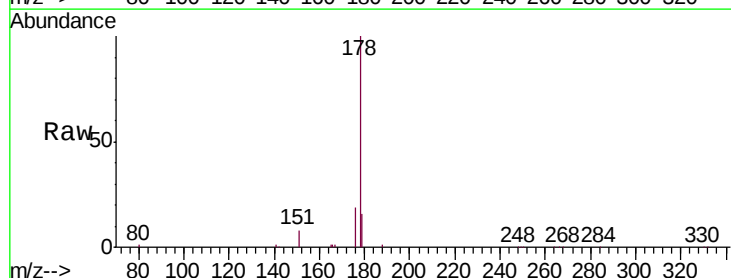
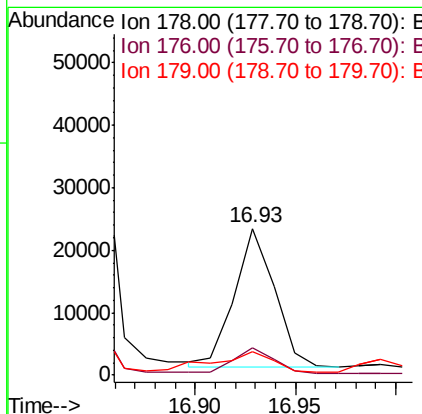
RT: 16.93 min Scan# 1558

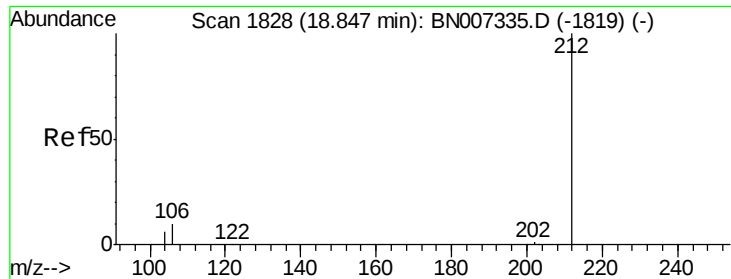
Delta R.T. 0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Tgt Ion:	178	Resp:	31318
Ion Ratio	Lower	Upper	
178	100		
176	20.5	14.9	22.3
179	22.6	12.4	18.6#





#25

Fluoranthene-d10

Concen: 0.014 ng

RT: 18.84 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

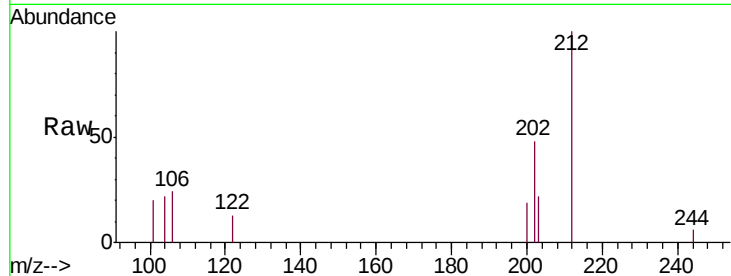
ClientSampleId :

S703-N-0.0-0.5-082119DL

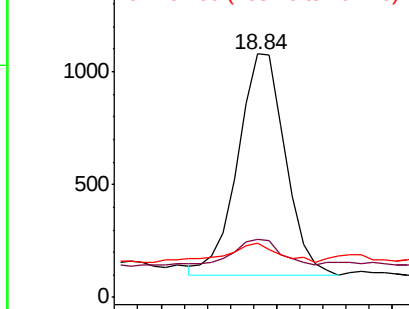
Tot Ion:	212	Resp:	1391
Ion Ratio	Lower	Upper	
212	100		
106	12.1	9.0	13.4
104	9.6	5.4	8.2#

Manual Integrations
APPROVED

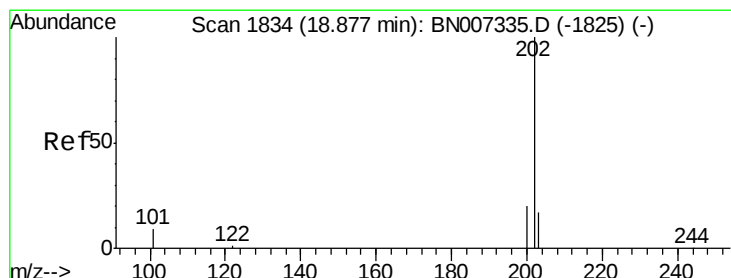
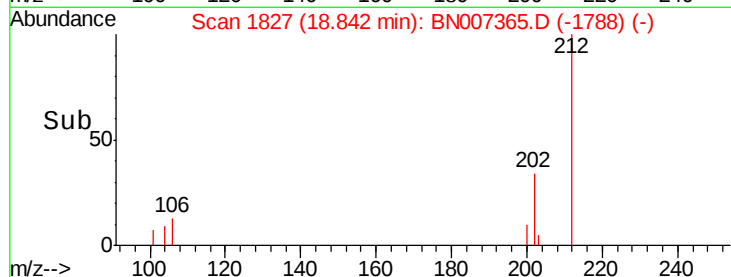
mohammad
8/31/2019 2:40:07 PM



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: 3.746 ng

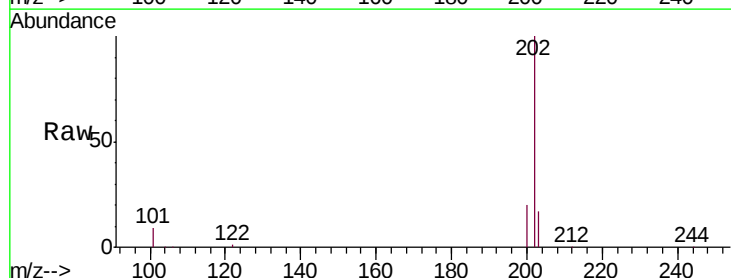
RT: 18.88 min Scan# 1834

Delta R.T. 0.00 min

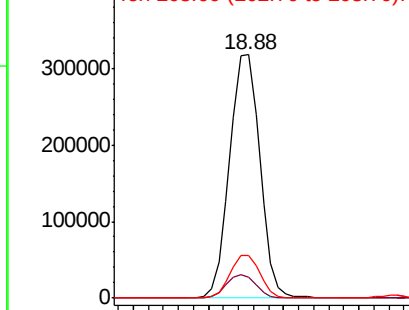
Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

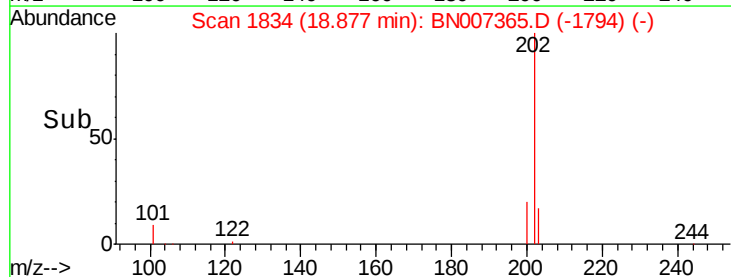
Tgt Ion:	202	Resp:	444002
Ion Ratio	Lower	Upper	
202	100		
101	9.5	7.7	11.5
203	17.4	13.7	20.5

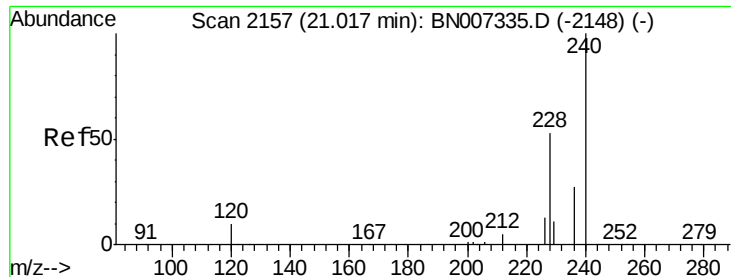


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.02 min Scan# 2157

Delta R.T. 0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

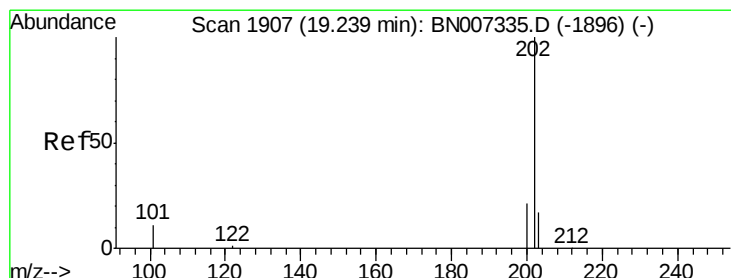
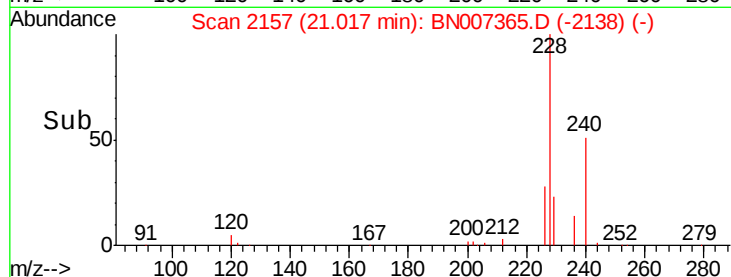
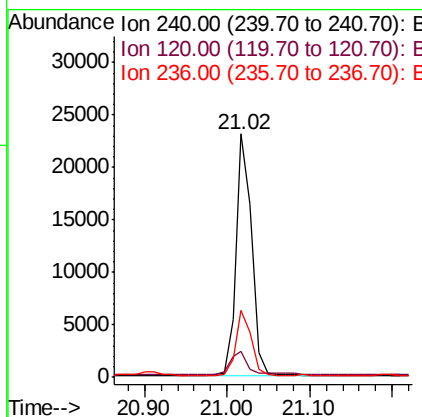
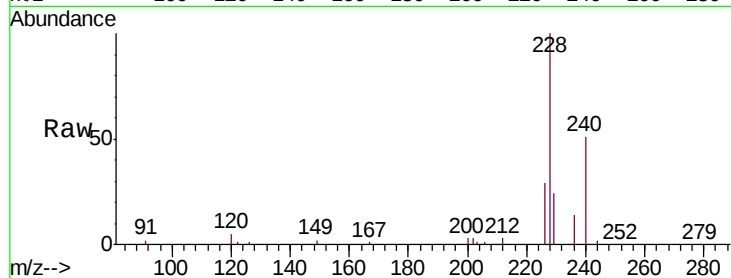
ClientSampleId :

S703-N-0.0-0.5-082119DL

Tot Ion:	240	Resp:	30891
Ion Ratio	Lower	Upper	
240	100		
120	10.5	9.6	14.4
236	27.3	22.2	33.2

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



#28

Pyrene

Concen: 2.970 ng

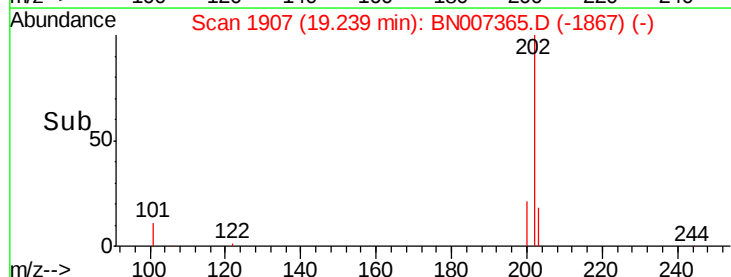
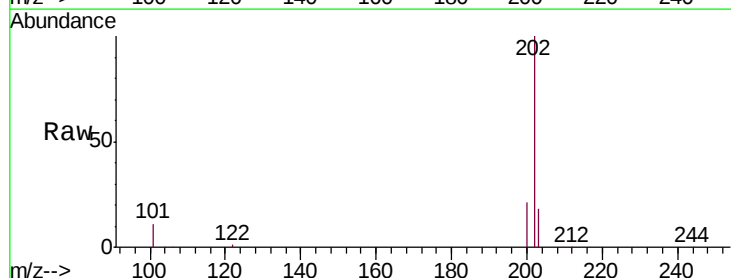
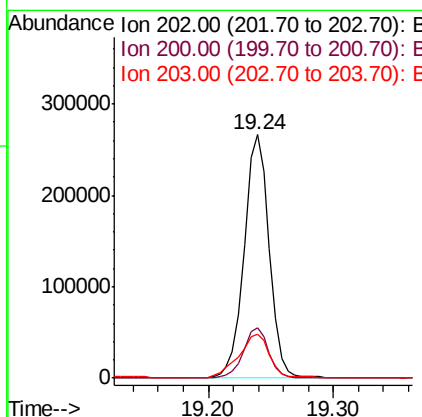
RT: 19.24 min Scan# 1907

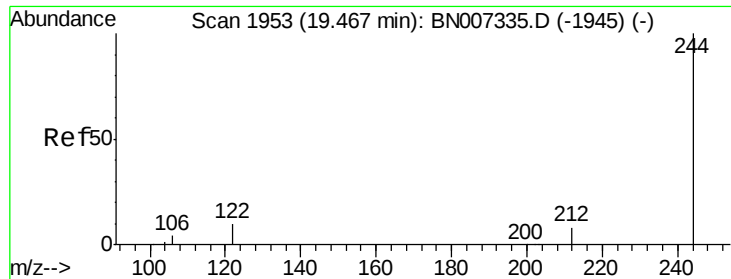
Delta R.T. 0.00 min

Lab File: BN007365.D

Acq: 24 Aug 2019 16:07

Tgt Ion:	202	Resp:	369050
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	25.0
203	22.3	14.2	21.4





#29

Terphenyl-d14

Concen: 0.014 ng

RT: 19.46 min Scan# 1952

Delta R.T. -0.00 min

Lab File: BN007365.D

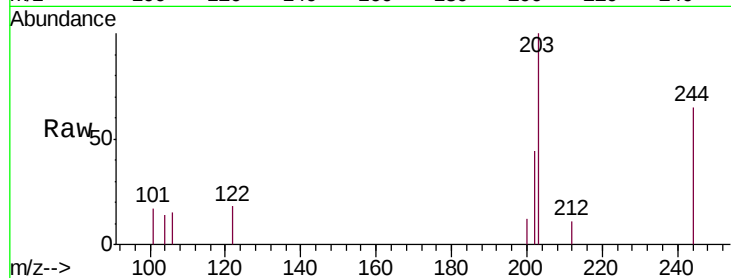
Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

ClientSampleId :

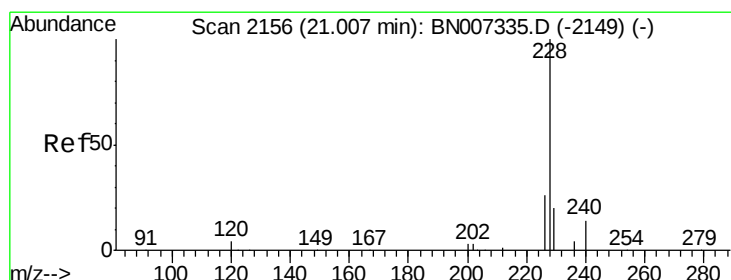
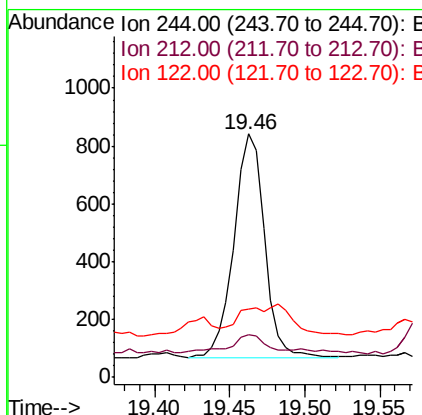
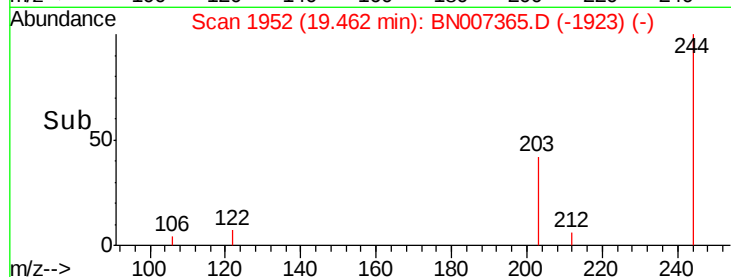
S703-N-0.0-0.5-082119DL



Tot Ion:	244	Resp:	1093
Ion Ratio	Lower	Upper	
244	100		
212	17.5	7.0	10.6#
122	28.0	9.6	14.4#

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM



#30

Benzo(a)anthracene

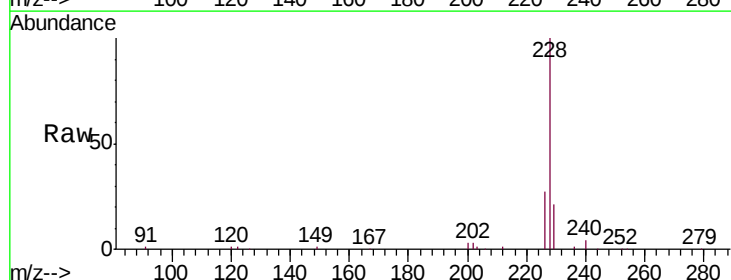
Concen: 1.649 ng

RT: 21.01 min Scan# 2156

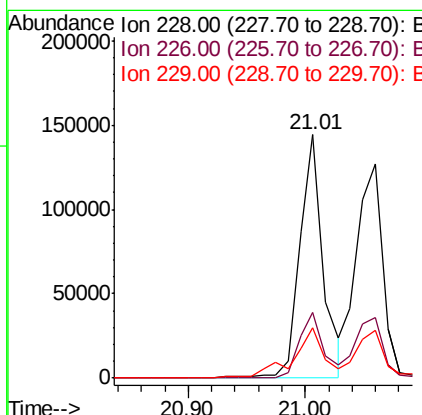
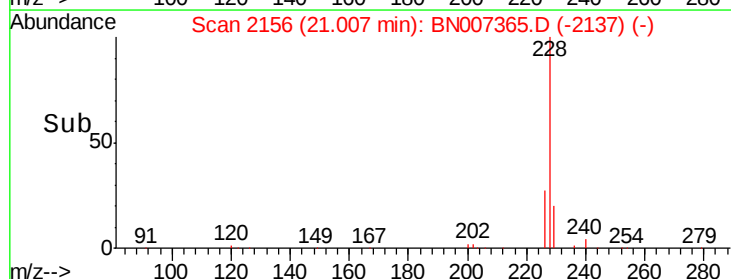
Delta R.T. 0.00 min

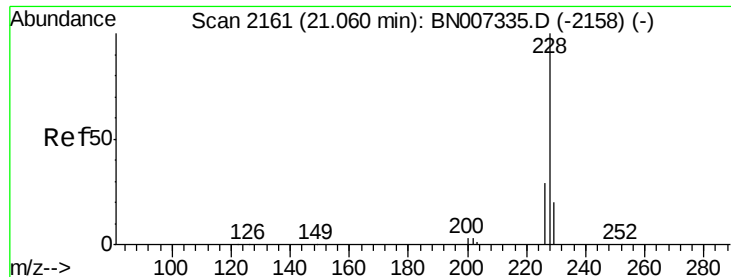
Lab File: BN007365.D

Acq: 24 Aug 2019 16:07



Tgt Ion:	228	Resp:	200096
Ion Ratio	Lower	Upper	
228	100		
226	27.2	21.3	31.9
229	20.6	16.1	24.1





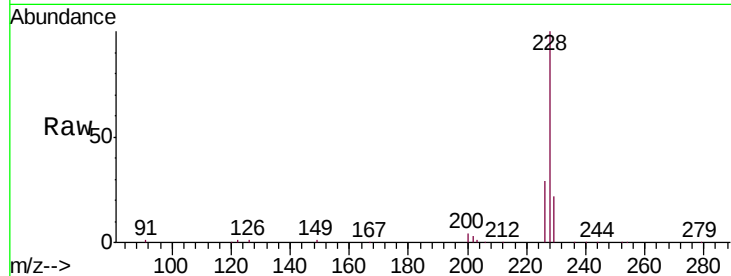
#31
Chrysene
Concen: 1.652 ng
RT: 21.06 min Scan# 2161
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	23.5	35.3
229	22.1	16.6	24.8

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM

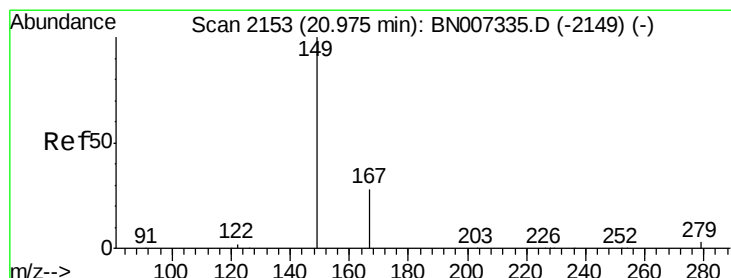
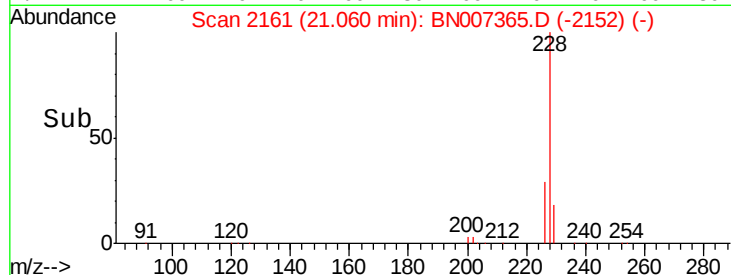
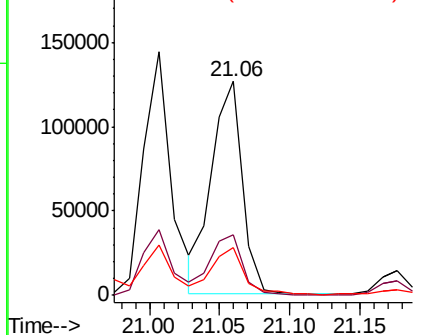


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32
Bis(2-ethylhexyl)phthalate
Concen: 0.029 ng
RT: 20.97 min Scan# 2153
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

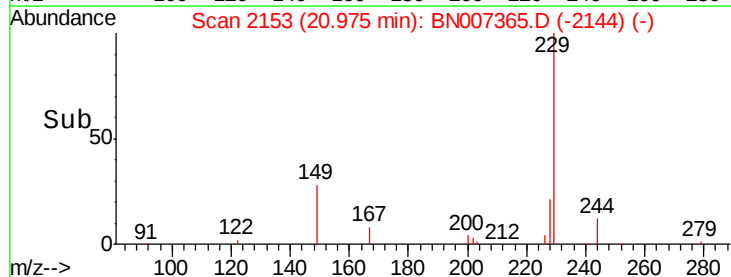
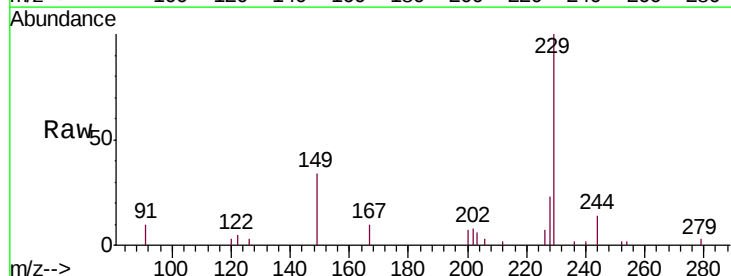
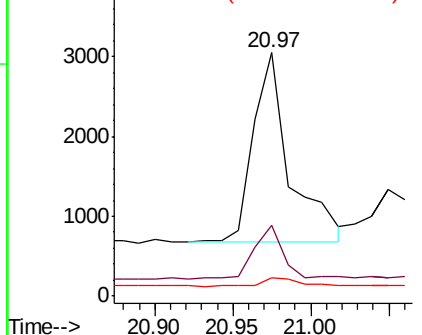
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.8	22.8	34.2
279	5.7	3.5	5.3#

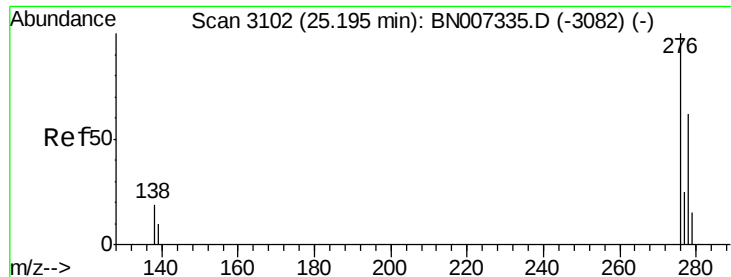
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





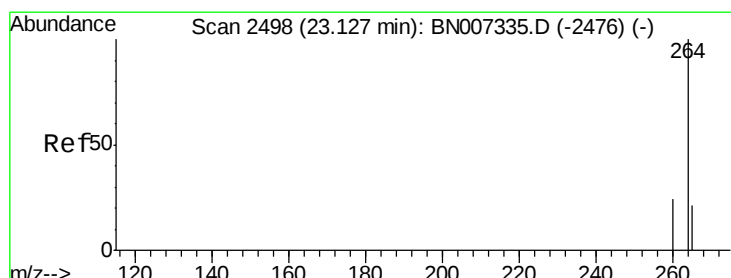
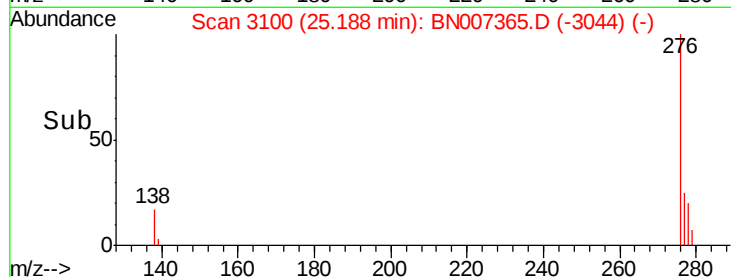
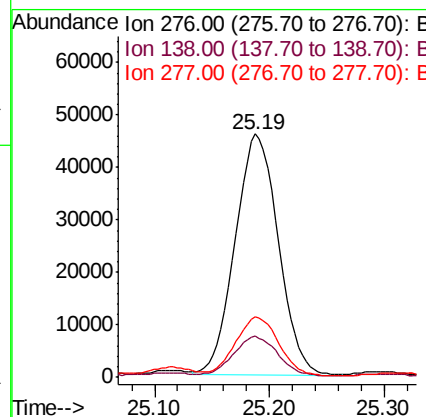
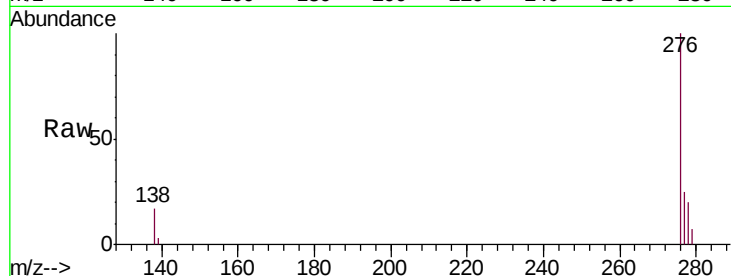
#33
Indeno(1,2,3-cd)pyrene
Concen: 0.853 ng
RT: 25.19 min Scan# 3100
Delta R.T. -0.01 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.6	15.1	22.7
277	24.4	19.7	29.5

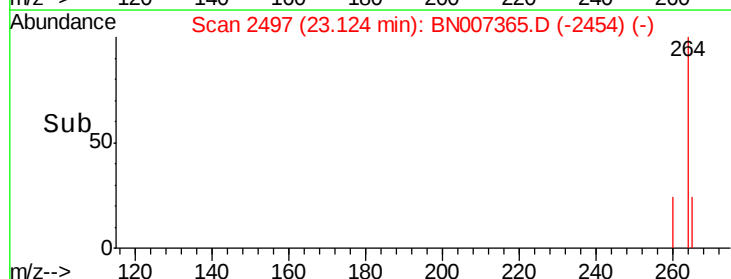
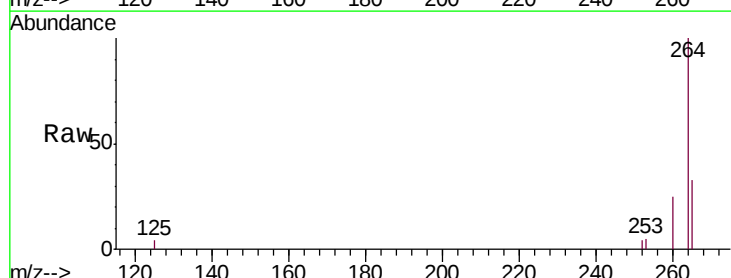
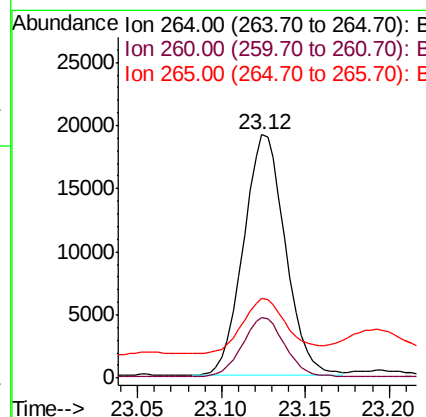
Manual Integrations
APPROVED

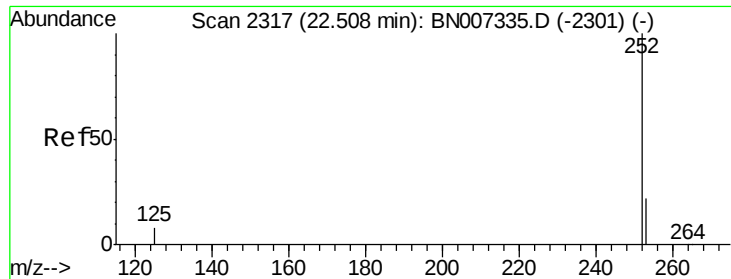
mohammad
8/31/2019 2:40:07 PM



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.12 min Scan# 2497
Delta R.T. -0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.7	29.5
265	32.9	29.9	44.9





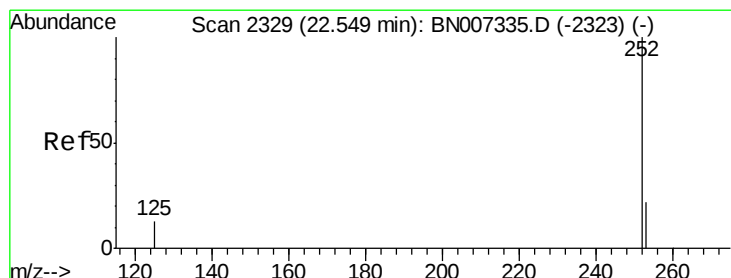
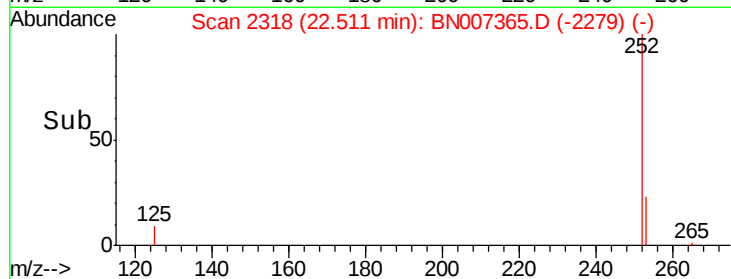
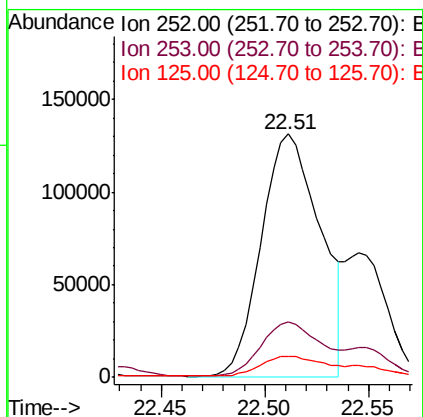
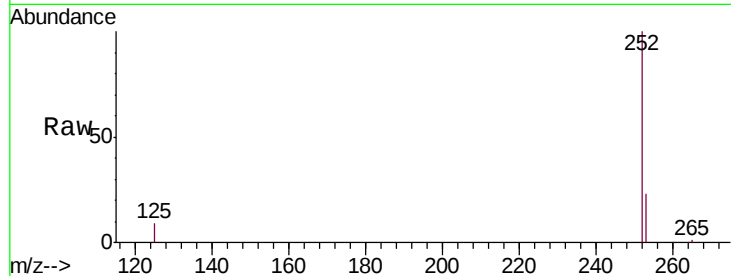
#35
Benzo(b)fluoranthene
Concen: 2.133 ng
RT: 22.51 min Scan# 2318
Delta R.T. 0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.9	19.2	28.8
125	8.8	10.6	16.0#

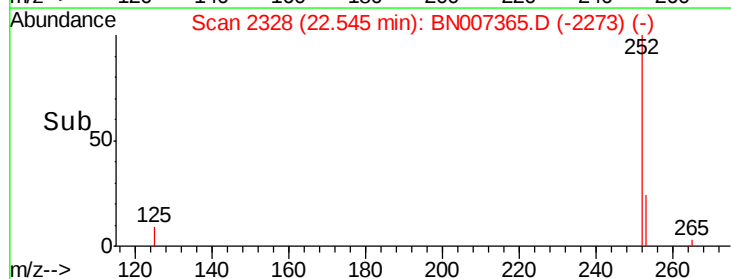
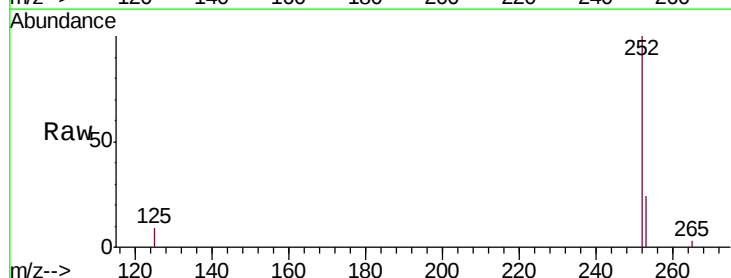
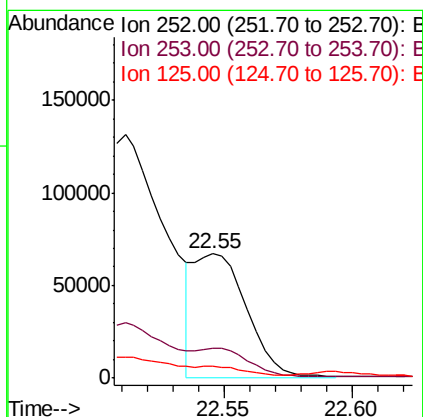
Manual Integrations
APPROVED

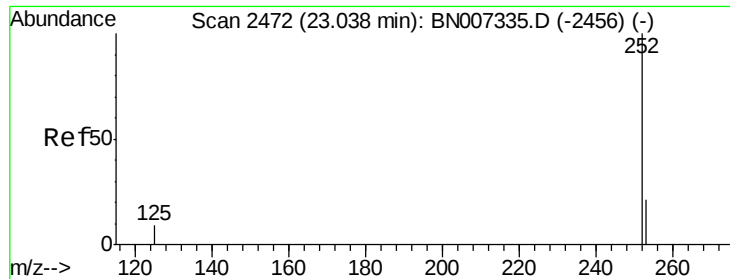
mohammad
8/31/2019 2:40:07 PM



#36
Benzo(k)fluoranthene
Concen: 0.808 ng m
RT: 22.55 min Scan# 2328
Delta R.T. -0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.7	19.4	29.2
125	9.2	13.1	19.7#





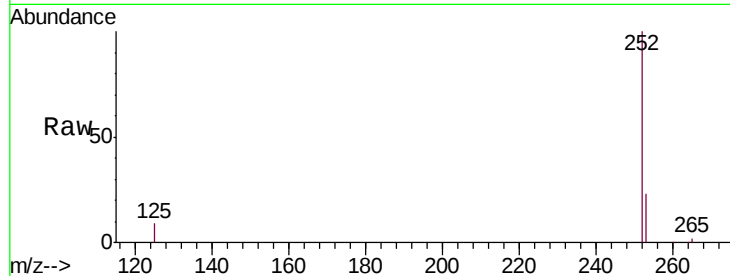
#37
Benzo(a)pyrene
Concen: 1.495 ng/ml
RT: 23.03 min Scan# 2471
Delta R.T. -0.00 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	19.5	29.3
125	9.2	12.1	18.1

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM

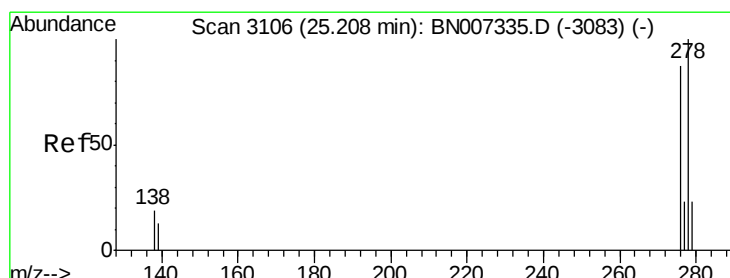
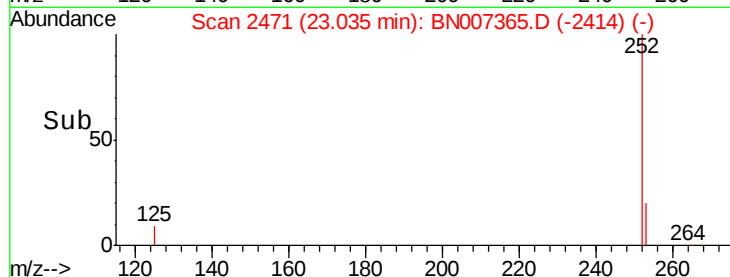
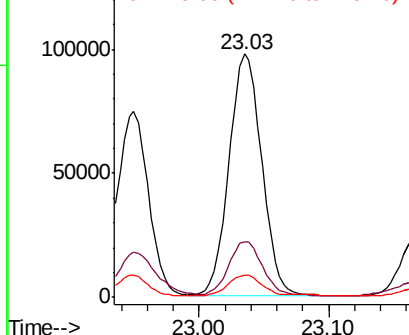


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38
Dibenzo(a,h)anthracene
Concen: 0.264 ng
RT: 25.20 min Scan# 3103
Delta R.T. -0.01 min
Lab File: BN007365.D
Acq: 24 Aug 2019 16:07

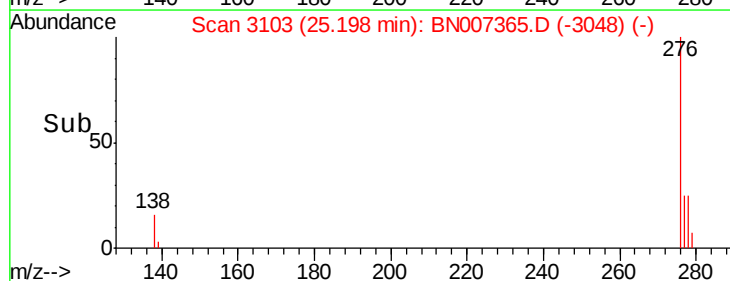
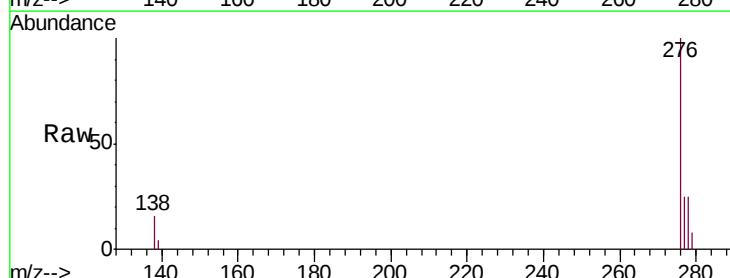
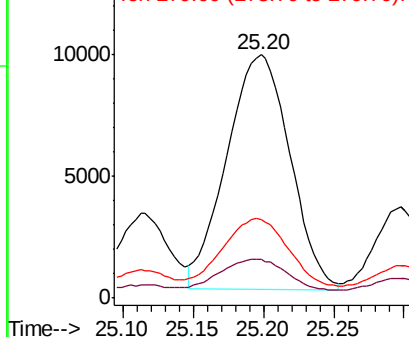
Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.9	13.7	20.5
279	32.0	20.2	30.4

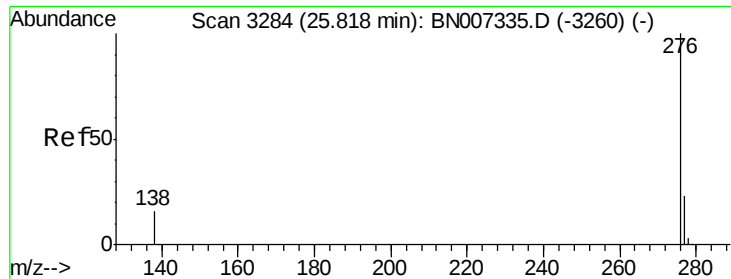
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 1.019 ng

RT: 25.82 min Scan# 3284

Delta R.T. 0.00 min

Lab File: BN007365.D

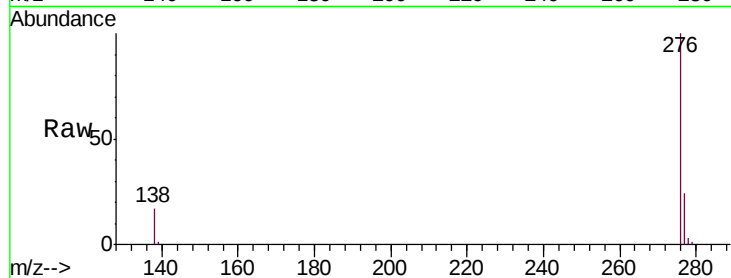
Acq: 24 Aug 2019 16:07

Instrument :

BNA_N

ClientSampleId :

S703-N-0.0-0.5-082119DL



Tot Ion:	276	Resp:	116641
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.6	29.4
138	16.7	16.3	24.5

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:07 PM

