

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
 Data File : BN006671.D
 Acq On : 01 Jul 2019 22:49
 Operator : HP/JU
 Sample : K3504-20
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-009-SW136-062019

Manual Integrations
 APPROVED

mohammad
 7/2/2019 2:52:40 PM

Quant Time: Jul 02 05:47:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 13:47:56 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	4645	0.40	ng	0.00
7) Naphthalene-d8	10.39	136	18942	0.40	ng	-0.01
13) Acenaphthene-d10	14.27	164	10533	0.40	ng	-0.01
19) Phenanthrene-d10	17.03	188	22183	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	19900	0.40	ng	-0.02
34) Perylene-d12	23.48	264	24065	0.40	ng	-0.04

System Monitoring Compounds

4) 2-Fluorophenol	5.24	112	3333	0.29	ng	0.00
5) Phenol-d6	6.82	99	4658	0.31	ng	0.00
8) Nitrobenzene-d5	8.79	82	3245	0.25	ng	0.00
11) 2-Methylnaphthalene-d10	11.99	152	7721	0.26	ng	0.00
14) 2,4,6-Tribromophenol	15.78	330	1498	0.30	ng	-0.01
15) 2-Fluorobiphenyl	12.88	172	10330	0.26	ng	-0.01
25) Fluoranthene-d10	19.07	212	15516	0.24	ng	-0.01
29) Terphenyl-d14	19.67	244	11394	0.27	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.44	128	19064	0.383	ng	99
12) 2-Methylnaphthalene	12.07	142	16151	0.470	ng	99
16) Acenaphthylene	13.99	152	163674	3.259	ng	100
17) Acenaphthene	14.33	154	11448	0.346	ng	95
18) Fluorene	15.32	166	36003	0.863	ng	# 87
22) Pentachlorophenol	16.72	266	330	0.285	ng	96
23) Phenanthrene	17.07	178	599846	9.510	ng	100
24) Anthracene	17.16	178	130250	2.380	ng	99
26) Fluoranthene	19.10	202	869715	11.346	ng	98
28) Pvrene	19.47	202	968668	13.911	ng	97
30) Benzo(a)anthracene	21.23	228	398306	6.122	ng	96
31) Chrysene	21.28	228	466457	6.651	ng	96
32) Bis(2-ethylhexyl)phthalate	21.15	149	130589	3.988	ng	99
33) Indeno(1,2,3-cd)pyrene	25.71	276	277061	3.903	ng	97
35) Benzo(b)fluoranthene	22.81	252	548411	6.699	ng	99
36) Benzo(k)fluoranthene	22.85	252	180402m	2.067	ng	
37) Benzo(a)pvrene	23.38	252	400165	5.229	ng	99
38) Dibenzo(a,h)anthracene	25.71	278	76802	1.149	ng	# 86
39) Benzo(g,h,i)perylene	26.40	276	294913	4.419	ng	100

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

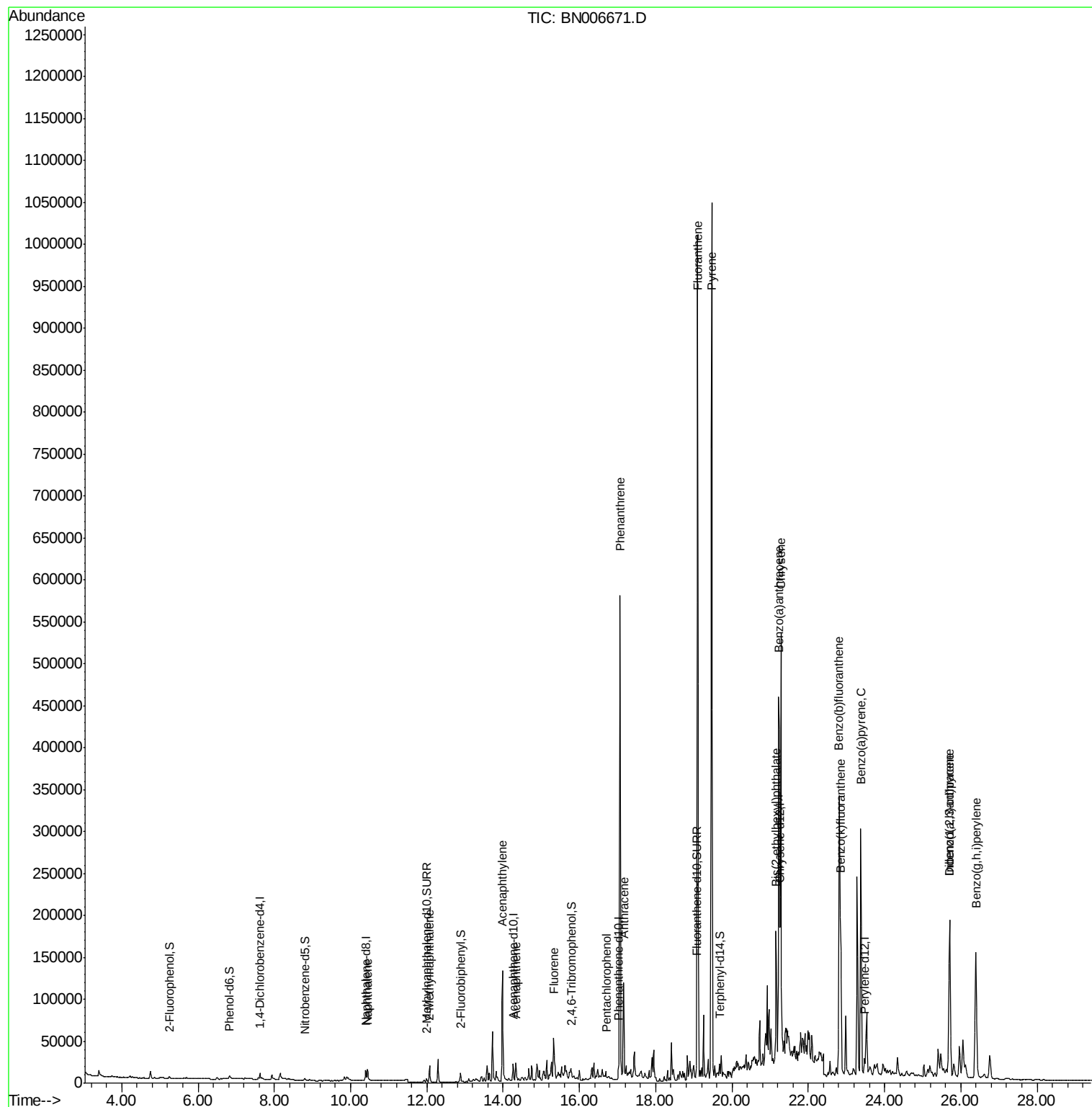
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
Data File : BN006671.D
Acq On : 01 Jul 2019 22:49
Operator : HP/JU
Sample : K3504-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM

Quant Time: Jul 02 05:47:02 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 13:47:56 2019
Response via : Initial Calibration





#1

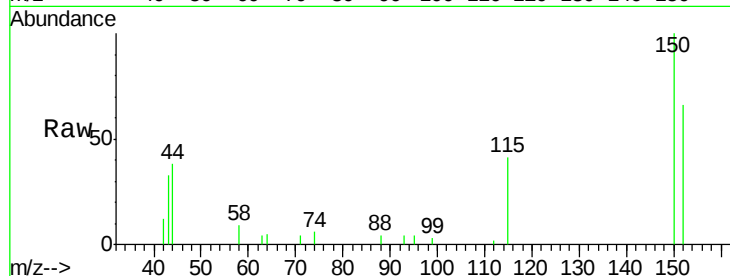
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 570
Delta R.T. -0.01 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

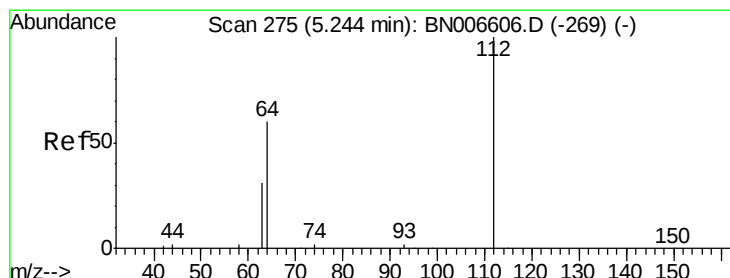
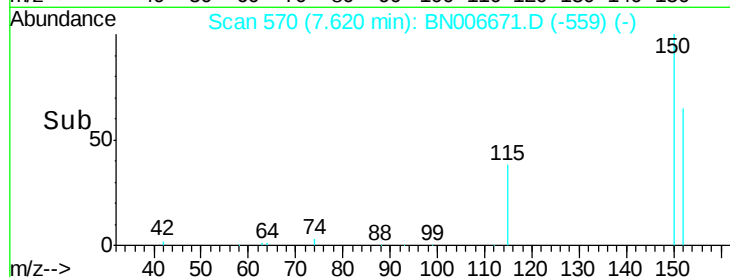
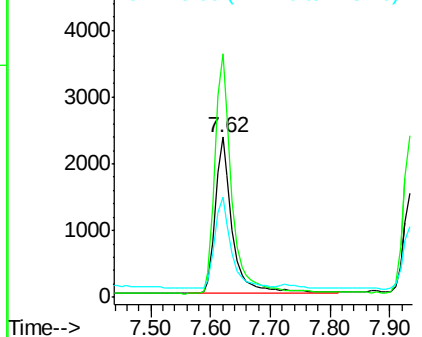
Tot Ion	Ratio	Lower	Upper
152	100		
150	152.3	122.2	183.2
115	62.7	50.0	75.0

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



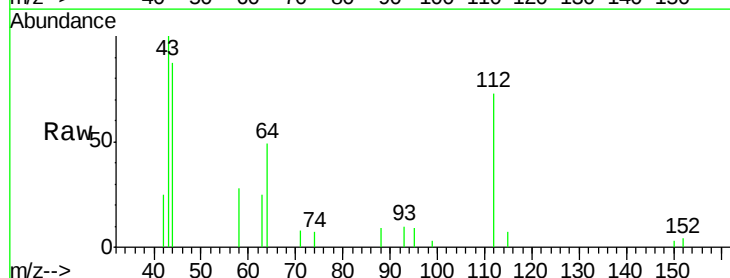
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



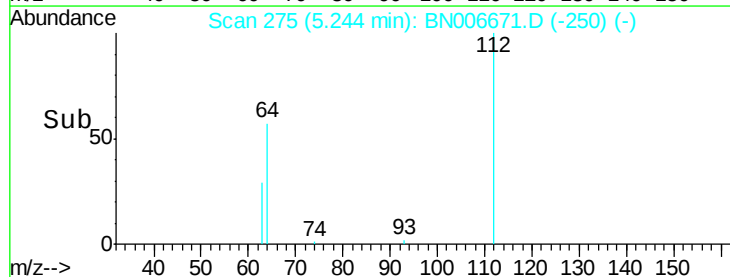
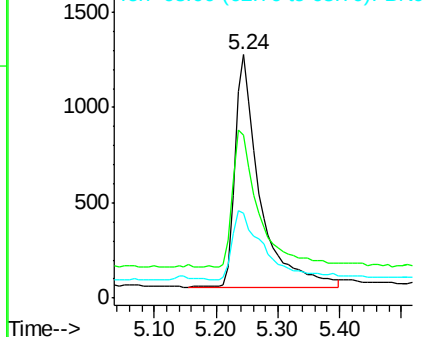
#4

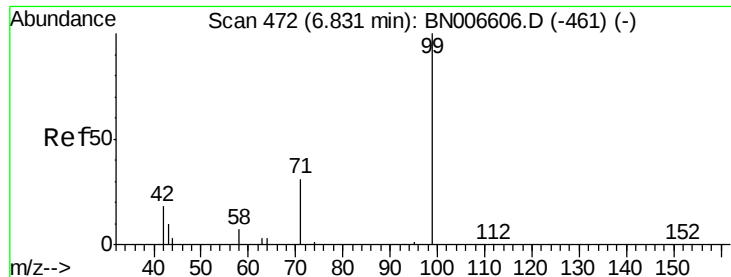
2-Fluorophenol
Concen: 0.293 ng
RT: 5.24 min Scan# 275
Delta R.T. -0.00 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.8	48.9	73.3
63	39.1	24.3	36.5



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: 0.309 ng

RT: 6.82 min Scan# 471

Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

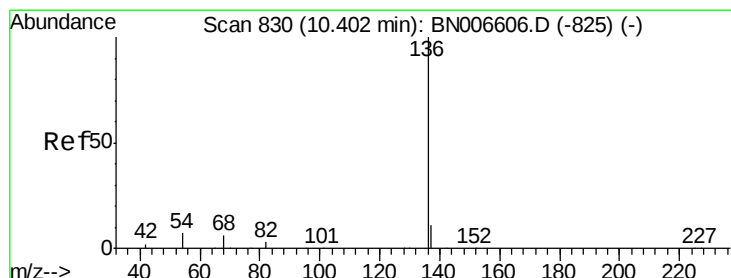
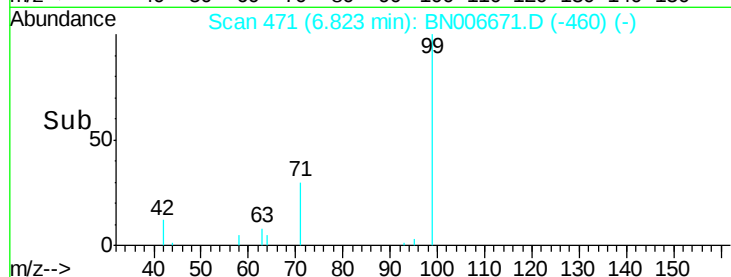
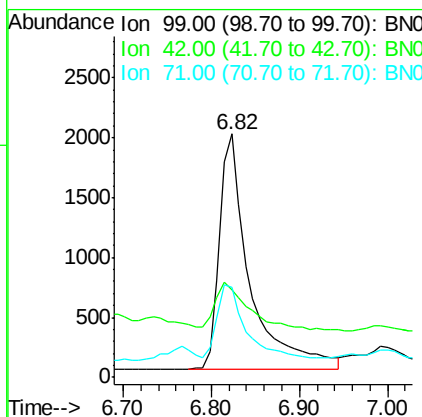
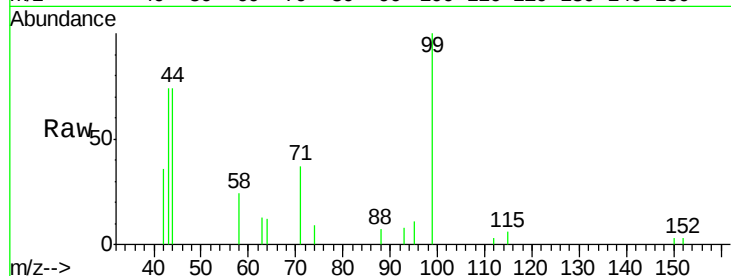
ClientSampleId :

EXT-009-SW136-062019

Tot Ion:	99	Resp:	4658
Ion	Ratio	Lower	Upper
99	100		
42	23.7	16.4	24.6
71	28.3	26.6	40.0

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#7

Naphthalene-d8

Concen: 0.400 ng

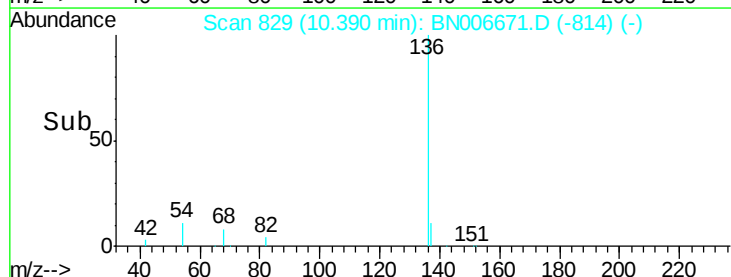
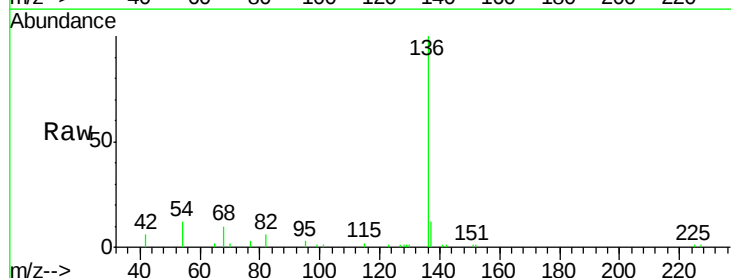
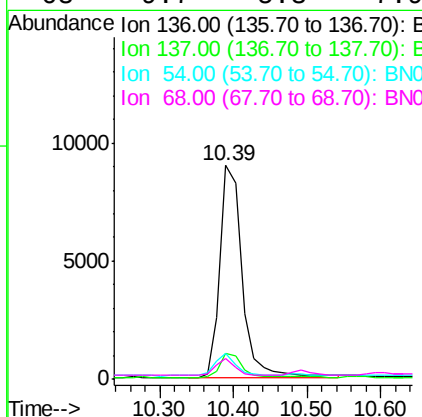
RT: 10.39 min Scan# 829

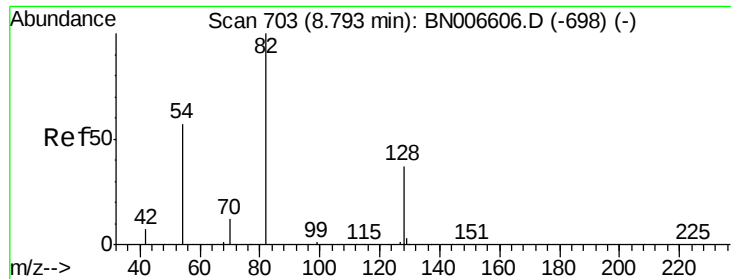
Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion:	136	Resp:	18942
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.3	13.9
54	12.0	6.7	10.1#
68	9.7	5.3	7.9#





#8

Nitrobenzene-d5

Concen: 0.255 ng

RT: 8.79 min Scan# 703

Delta R.T. -0.00 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

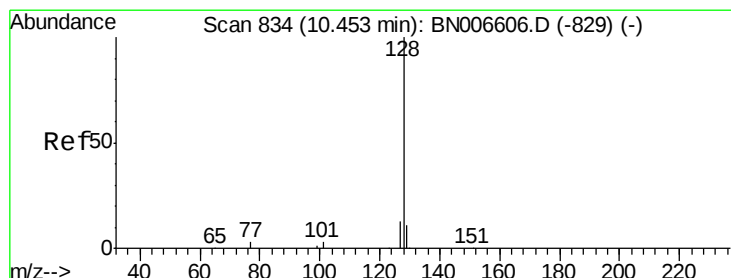
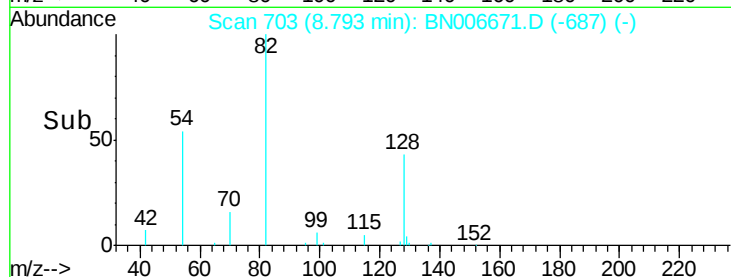
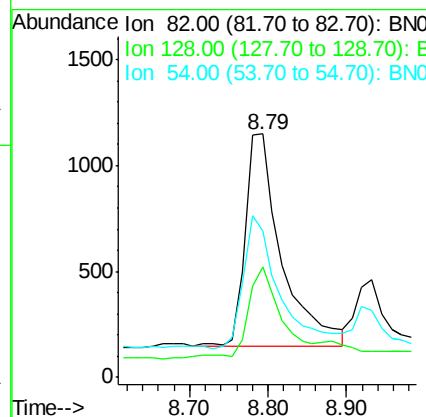
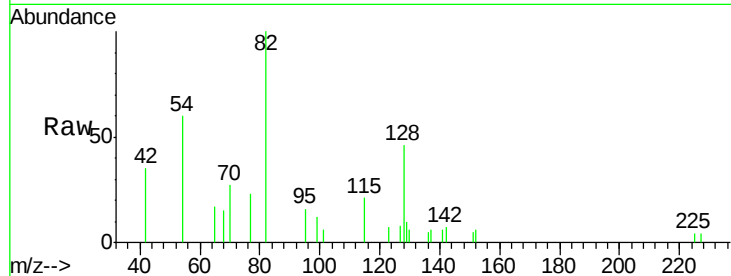
ClientSampleId :

EXT-009-SW136-062019

Tot Ion:	82	Resp:	3245
Ion	Ratio	Lower	Upper
82	100		
128	45.6	32.6	49.0
54	60.4	48.2	72.4

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#9

Naphthalene

Concen: 0.383 ng

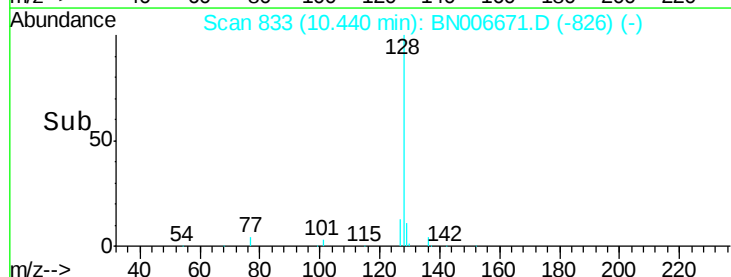
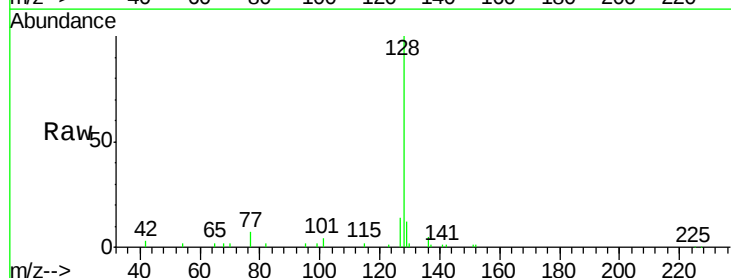
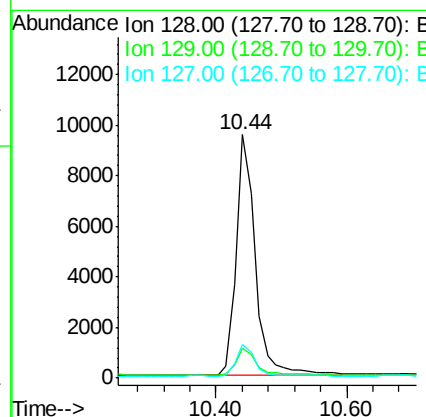
RT: 10.44 min Scan# 833

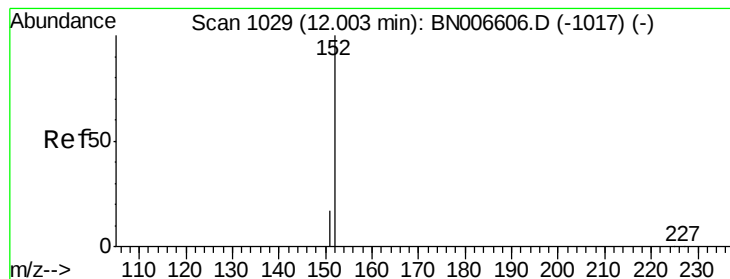
Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion:	128	Resp:	19064
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.3	13.9
127	13.6	10.8	16.2





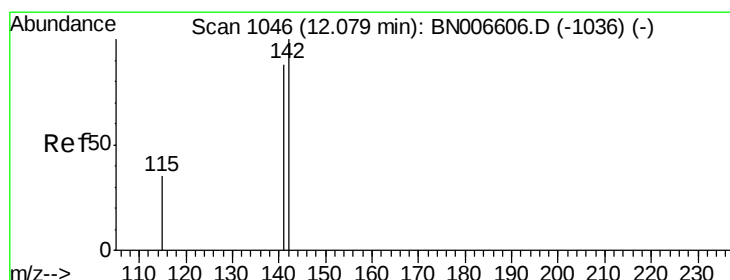
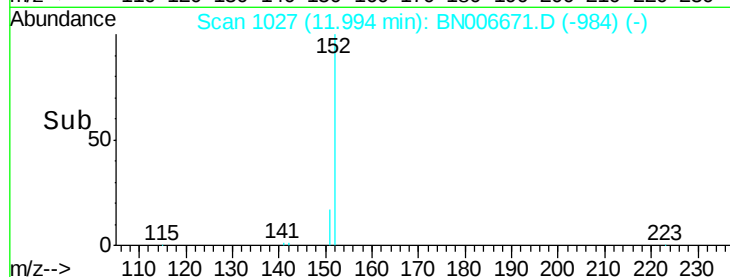
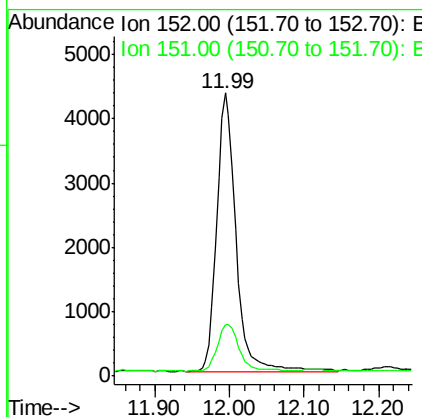
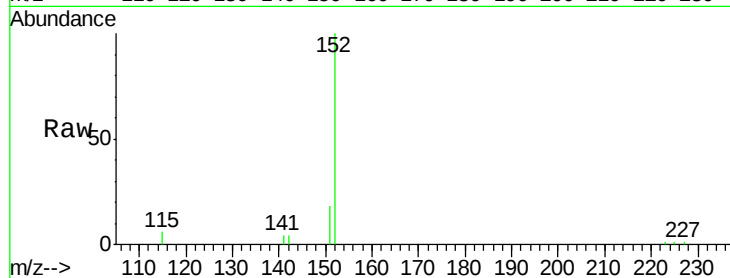
#11
2-Methylnaphthalene-d10
Concen: 0.259 ng
RT: 11.99 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.0	22.4

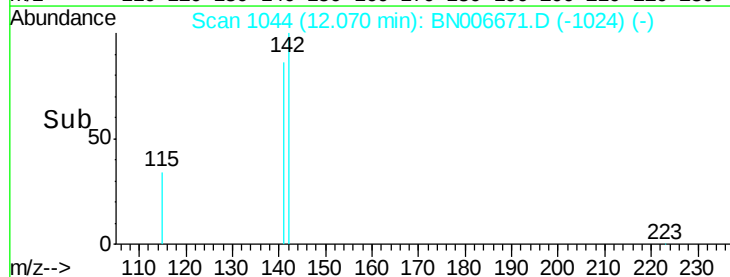
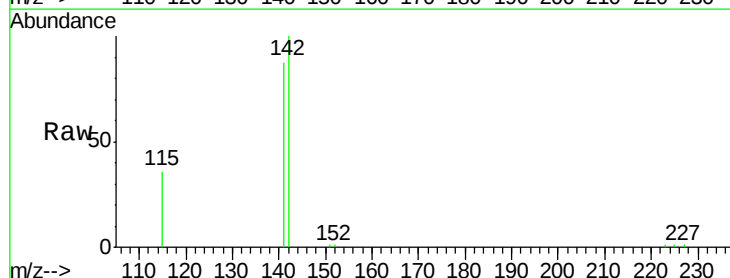
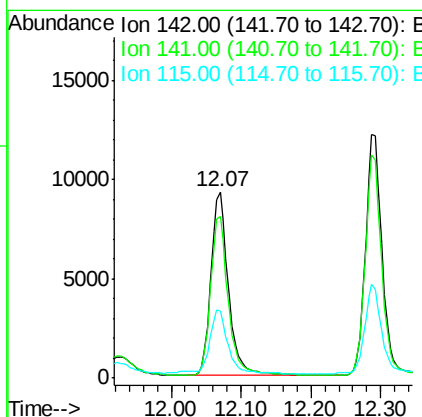
Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#12
2-Methylnaphthalene
Concen: 0.470 ng
RT: 12.07 min Scan# 1044
Delta R.T. -0.01 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.9	70.2	105.4
115	36.0	28.5	42.7





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.27 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

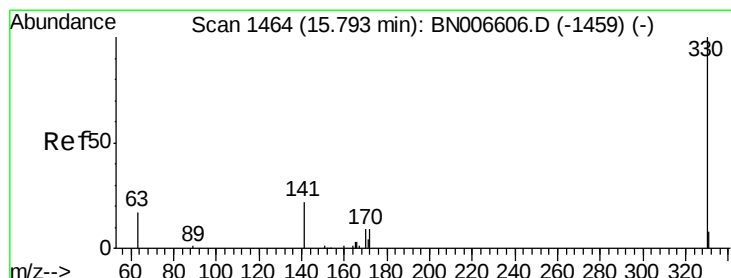
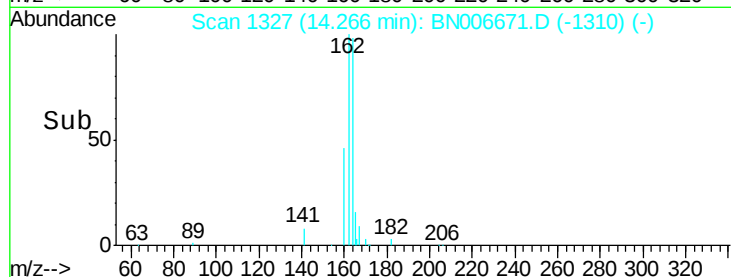
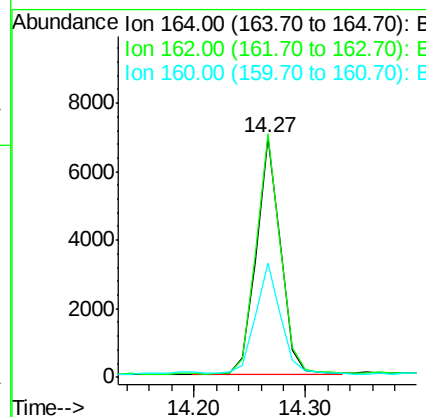
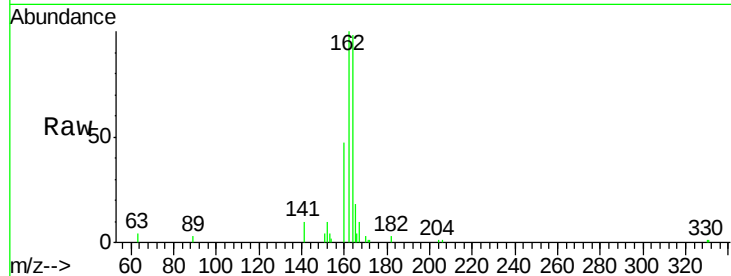
ClientSampleId :

EXT-009-SW136-062019

Tot Ion:	164	Resp:	10533
Ion Ratio	Lower	Upper	
164	100		
162	101.6	80.0	120.0
160	47.5	37.0	55.4

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#14

2,4,6-Tribromophenol

Concen: 0.302 ng

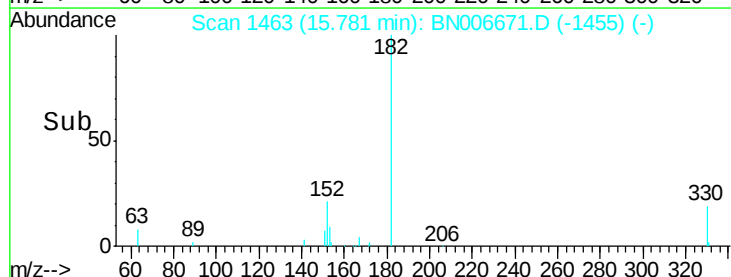
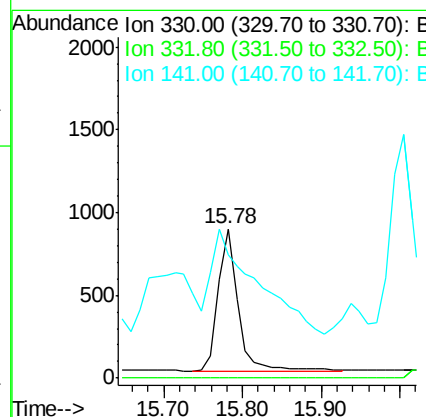
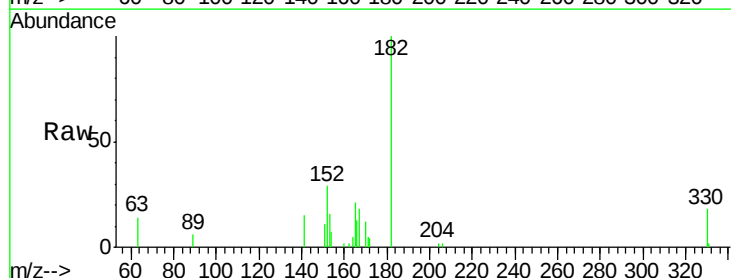
RT: 15.78 min Scan# 1463

Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion:	330	Resp:	1498
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	168.6	26.5	39.7#





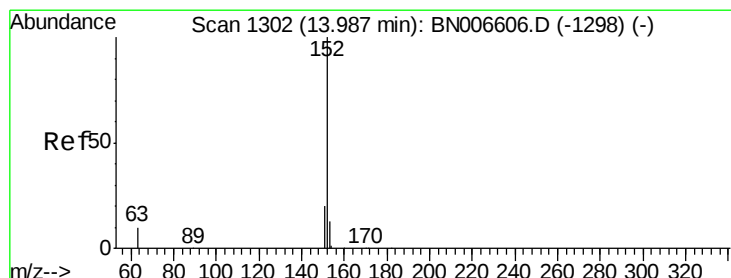
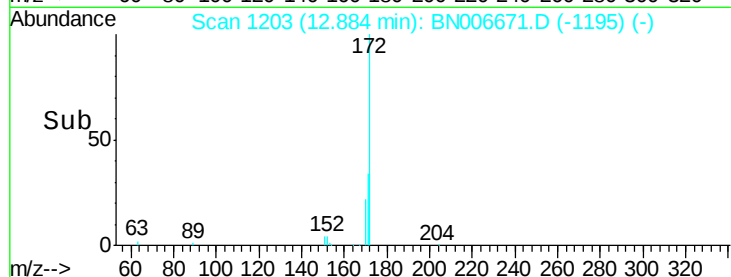
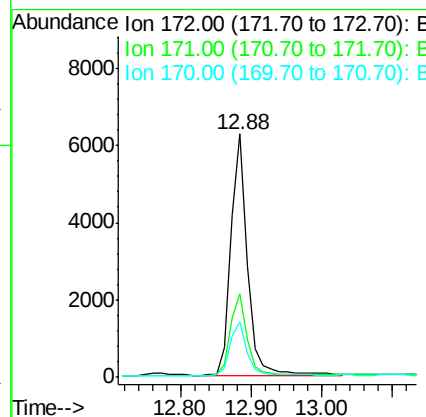
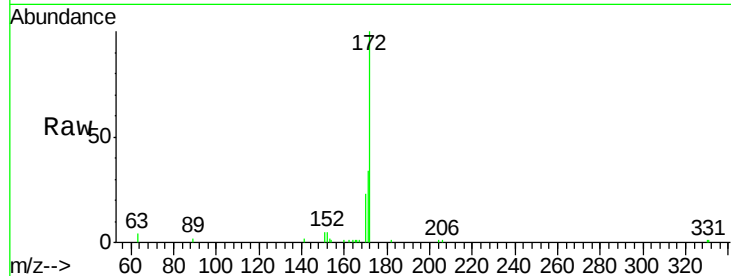
#15
2-Fluorobiphenyl
Concen: 0.265 ng
RT: 12.88 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.0	40.4
170	23.0	17.7	26.5

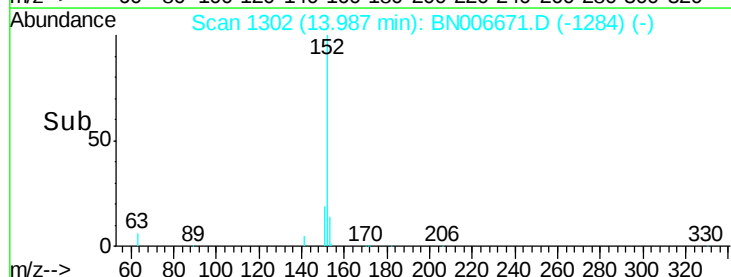
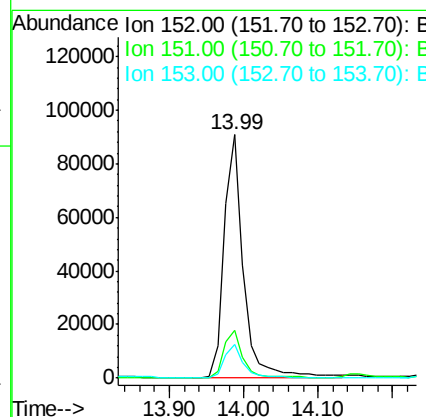
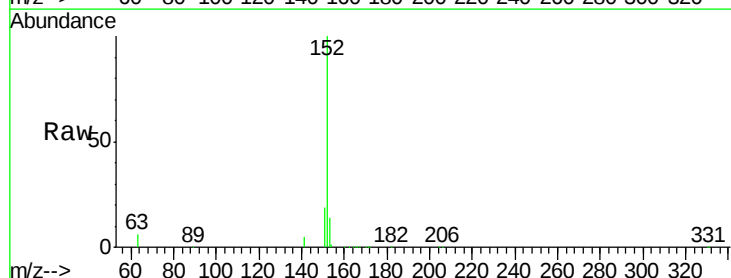
Manual Integrations
APPROVED

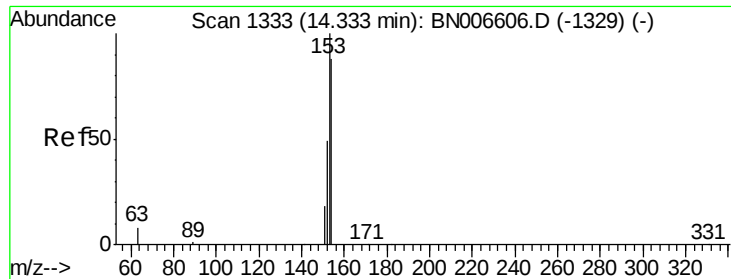
mohammad
7/2/2019 2:52:40 PM



#16
Acenaphthylene
Concen: 3.259 ng
RT: 13.99 min Scan# 1302
Delta R.T. -0.00 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.5	10.5	15.7





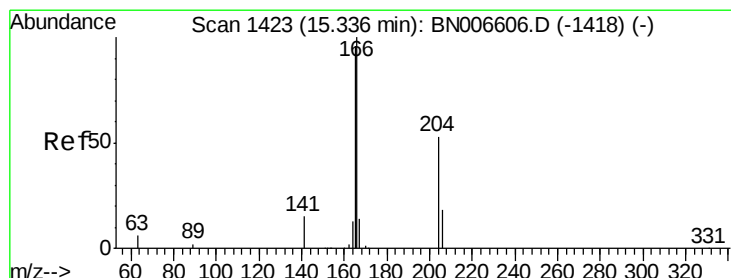
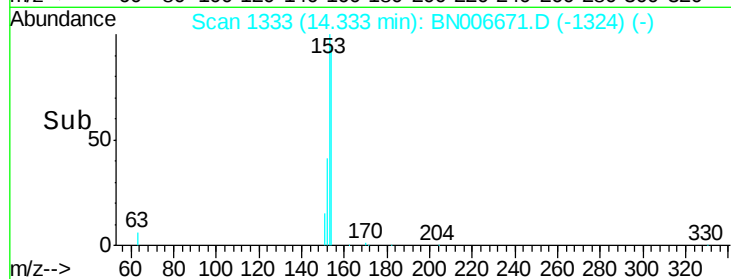
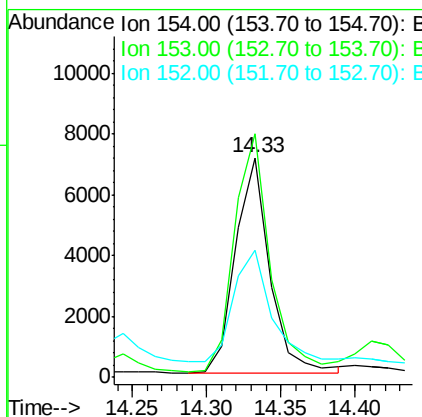
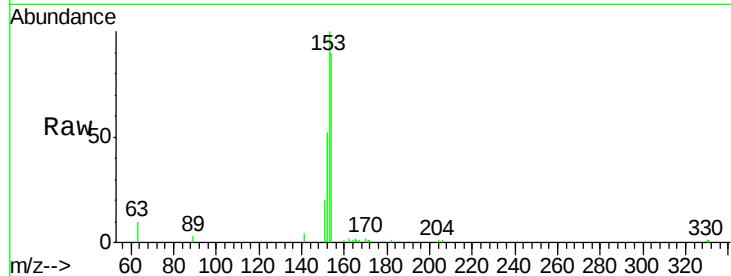
#17
Acenaphthene
Concen: 0.346 ng
RT: 14.33 min Scan# 1333
Delta R.T. -0.00 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.2	135.4
152	64.3	44.2	66.4

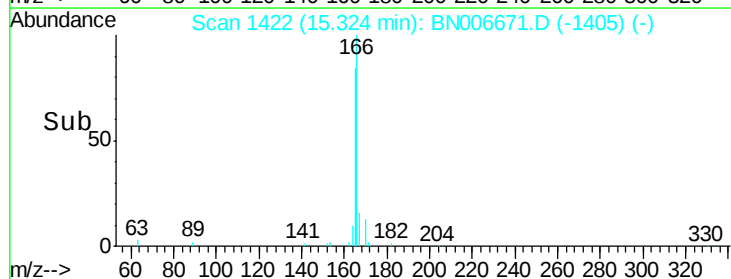
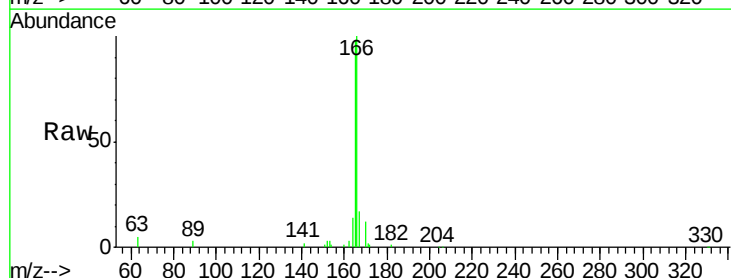
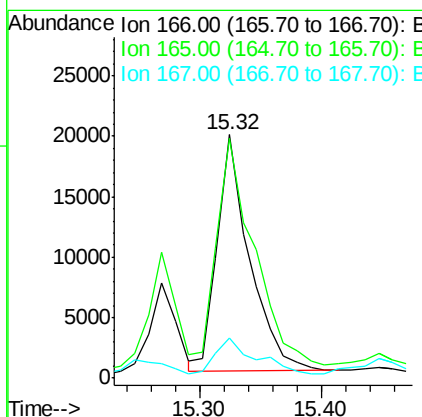
Manual Integrations
APPROVED

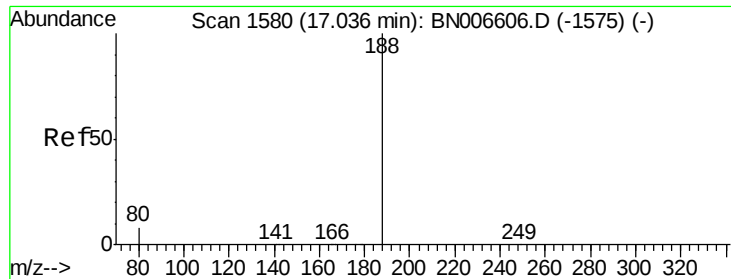
mohammad
7/2/2019 2:52:40 PM



#18
Fluorene
Concen: 0.863 ng
RT: 15.32 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	110.9	78.4	117.6
167	18.2	10.8	16.2#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.03 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

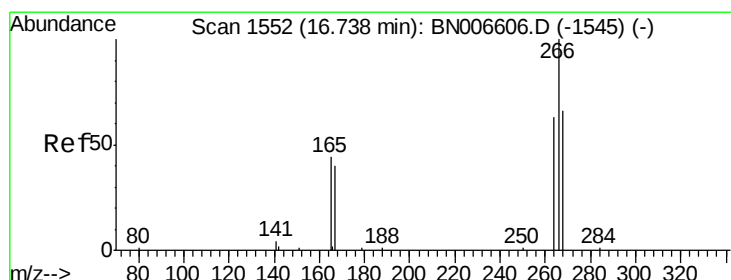
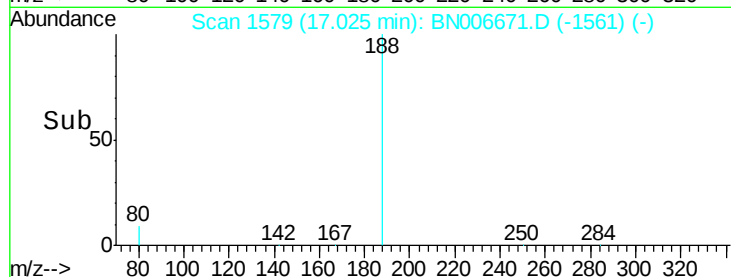
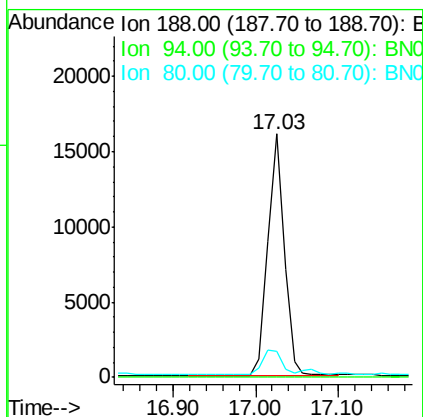
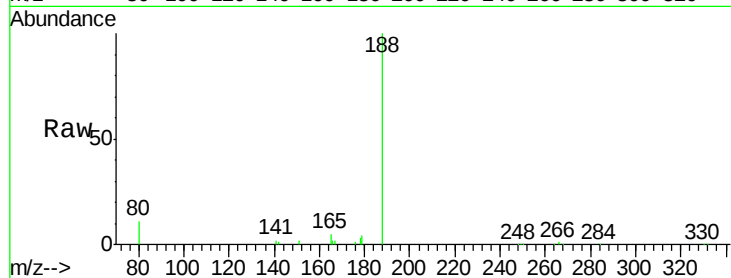
ClientSampleId :

EXT-009-SW136-062019

Tot Ion:	188	Resp:	22183
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.5	7.1	10.7

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#22

Pentachlorophenol

Concen: 0.285 ng

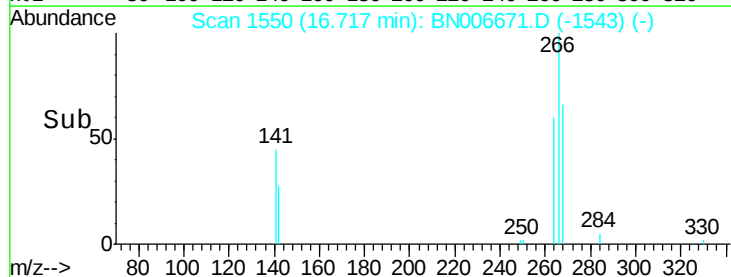
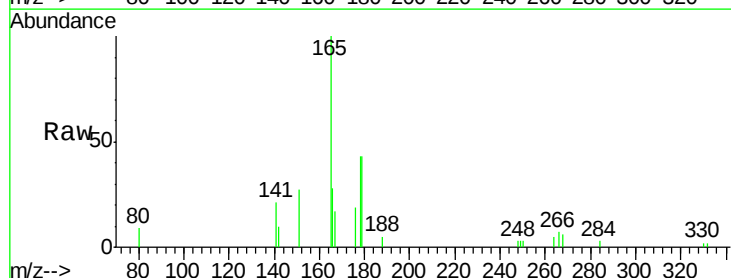
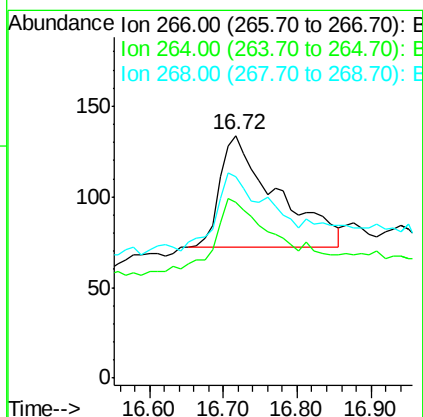
RT: 16.72 min Scan# 1550

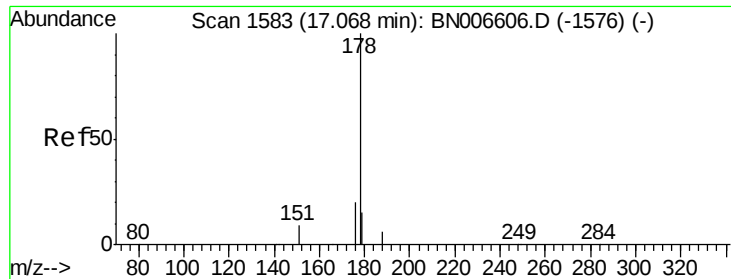
Delta R.T. -0.02 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion:	266	Resp:	330
Ion Ratio	Lower	Upper	
266	100		
264	72.4	56.2	84.4
268	82.8	63.0	94.4





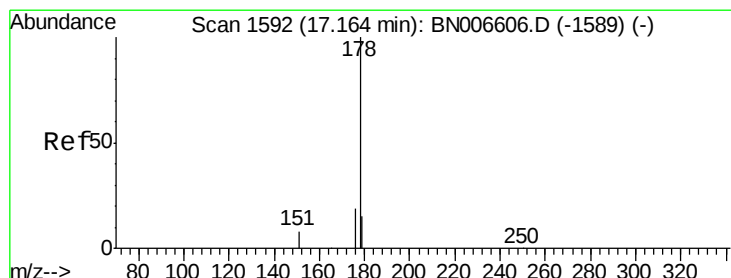
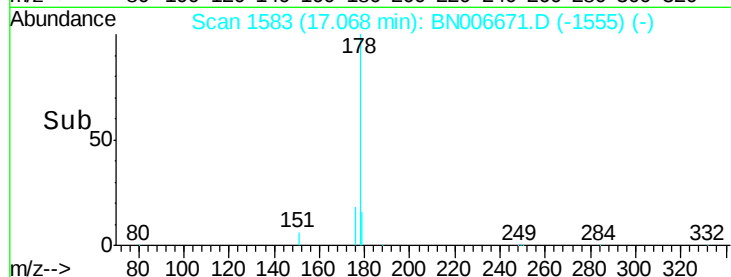
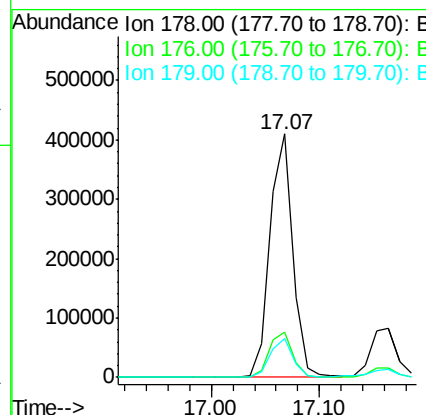
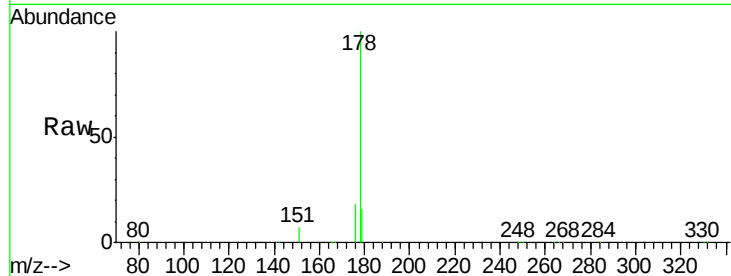
#23
Phenanthrene
Concen: 9.510 ng
RT: 17.07 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.5	12.2	18.4

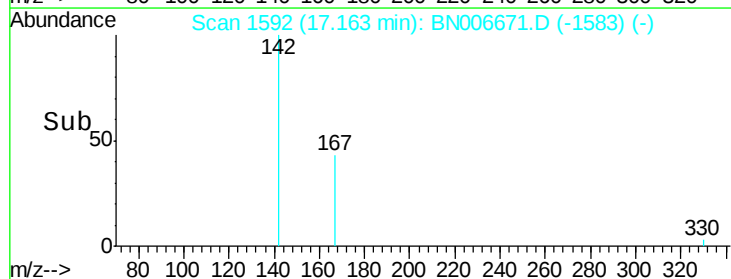
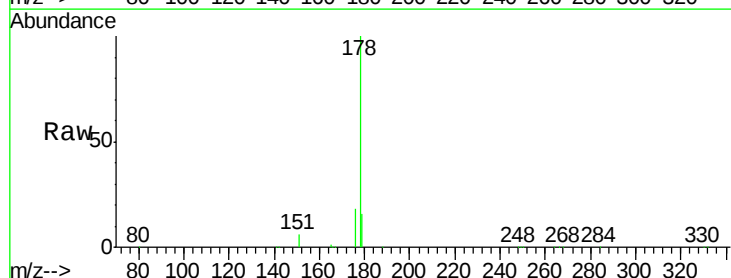
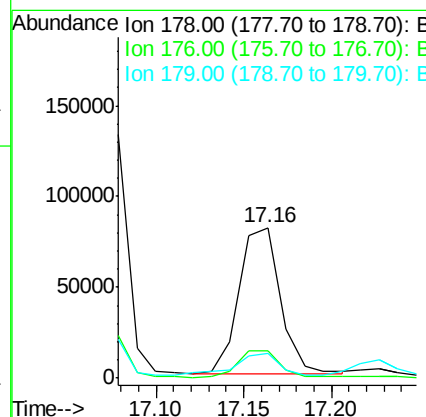
Manual Integrations
APPROVED

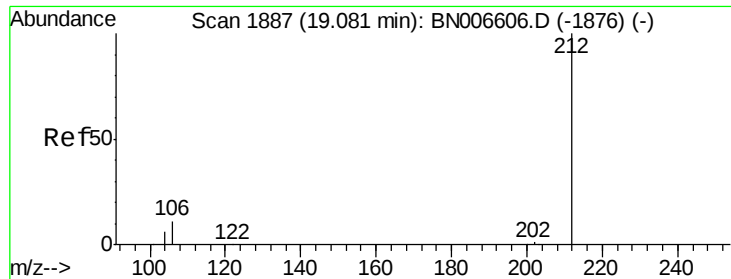
mohammad
7/2/2019 2:52:40 PM



#24
Anthracene
Concen: 2.380 ng
RT: 17.16 min Scan# 1592
Delta R.T. -0.00 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	16.4	12.2	18.2





#25

Fluoranthene-d10

Concen: 0.238 ng

RT: 19.07 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

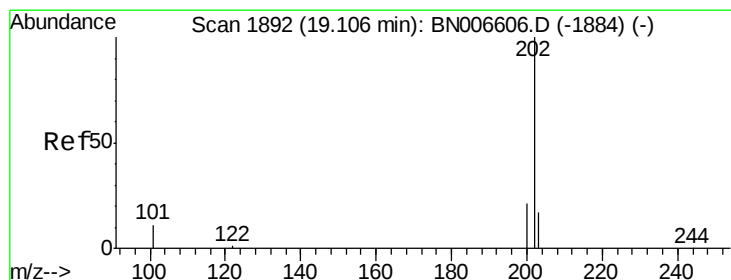
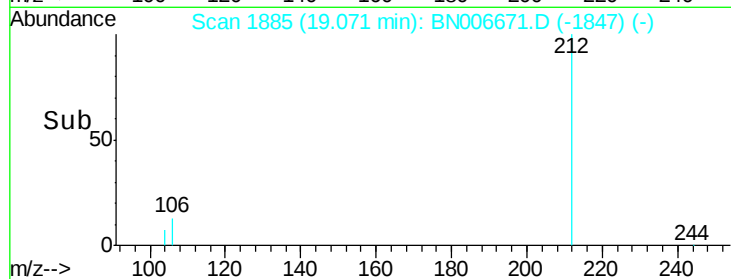
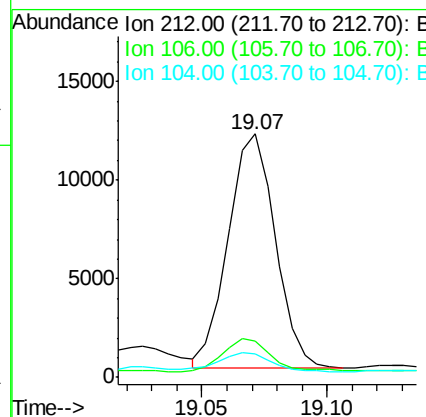
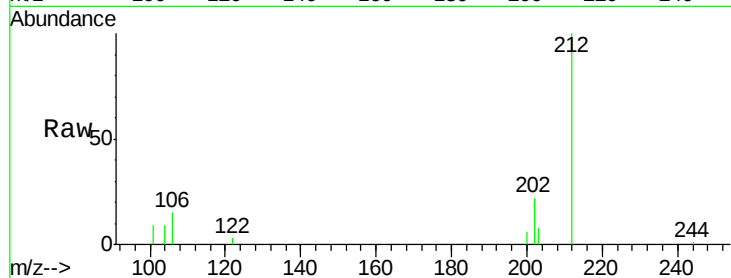
ClientSampleId :

EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
212	100		
106	14.5	10.6	15.8
104	9.0	5.8	8.6

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#26

Fluoranthene

Concen: 11.346 ng

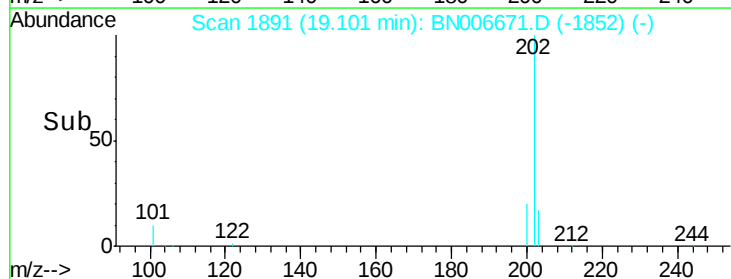
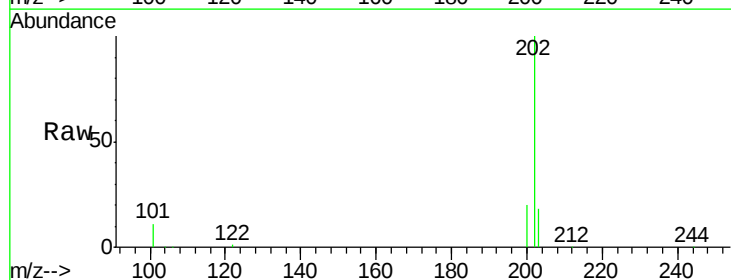
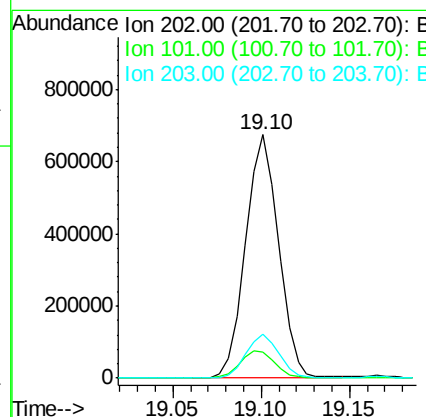
RT: 19.10 min Scan# 1891

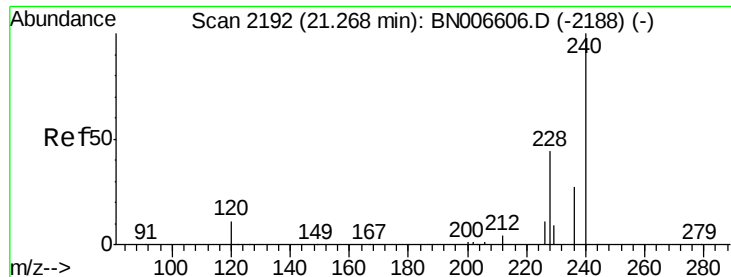
Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.9	13.3
203	17.8	13.6	20.4





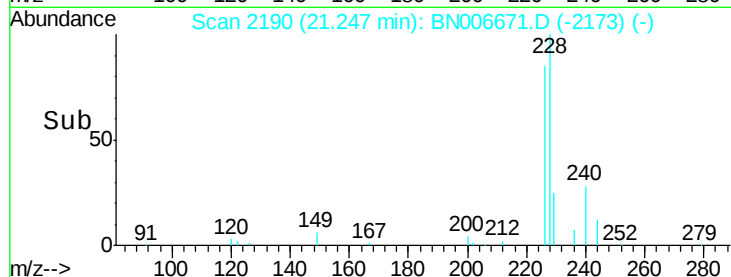
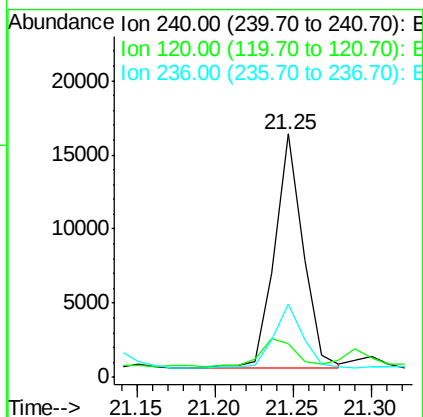
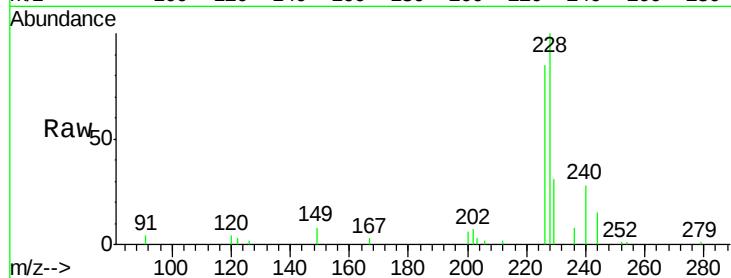
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.0	9.9	14.9
236	30.0	22.2	33.4

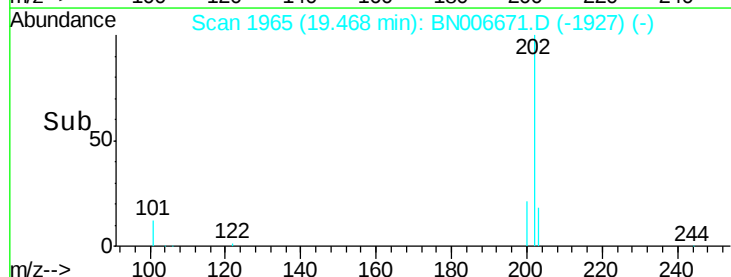
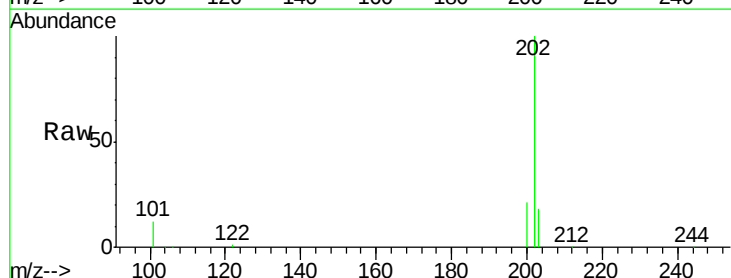
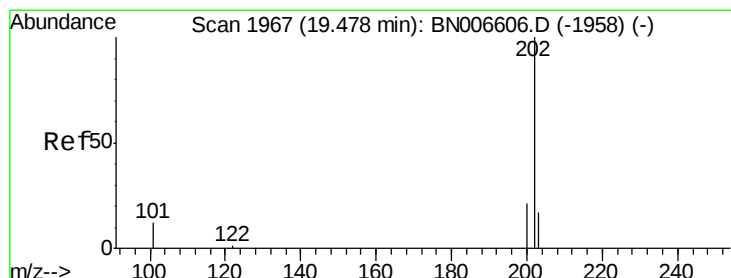
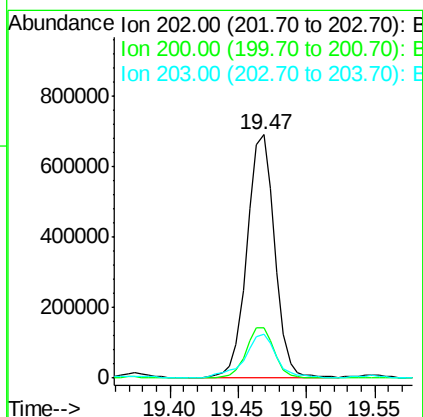
Manual Integrations
APPROVED

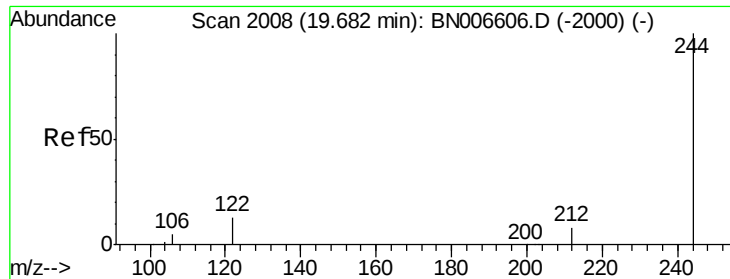
mohammad
7/2/2019 2:52:40 PM



#28
Pyrene
Concen: 13.911 ng
RT: 19.47 min Scan# 1965
Delta R.T. -0.01 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	20.3	14.1	21.1





#29

Terphenyl-d14

Concen: 0.273 ng

RT: 19.67 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

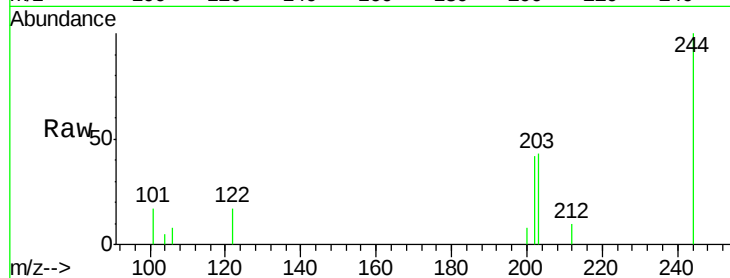
ClientSampleId :

EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.5	6.7	10.1
122	16.8	11.0	16.6

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM

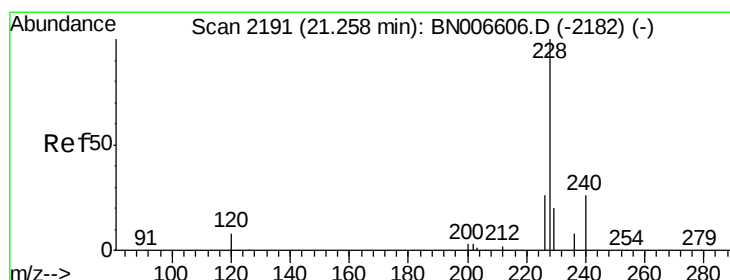
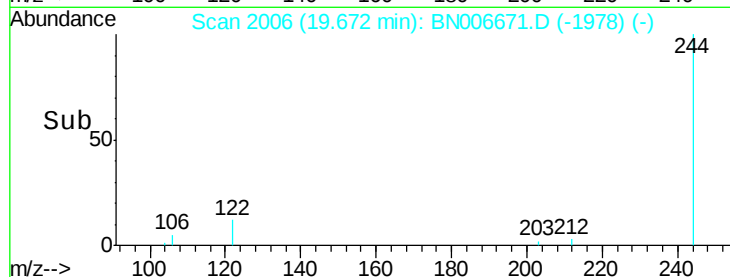
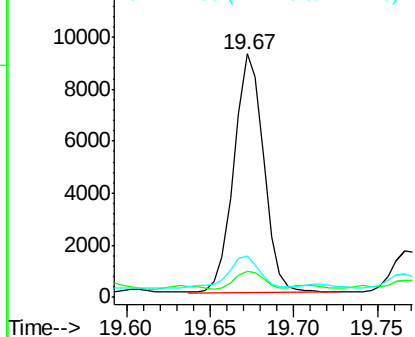


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 6.122 ng

RT: 21.23 min Scan# 2188

Delta R.T. -0.03 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

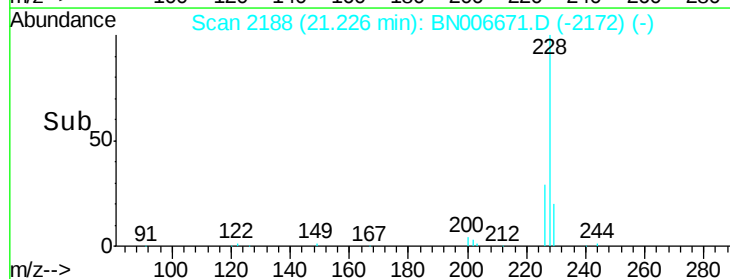
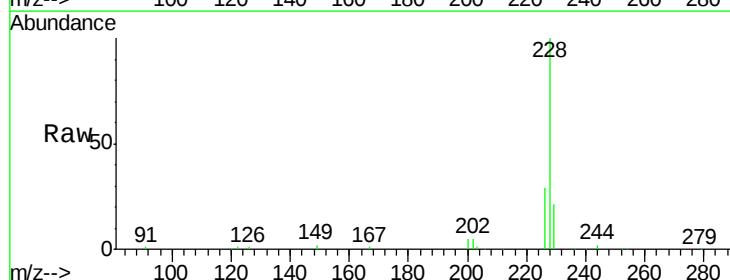
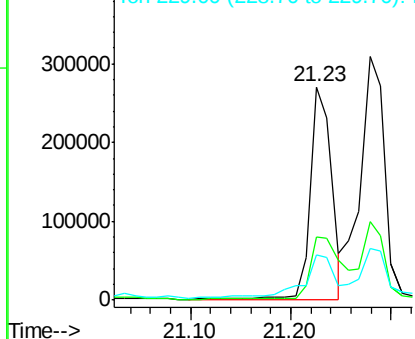
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	21.2	31.8
229	21.2	16.1	24.1

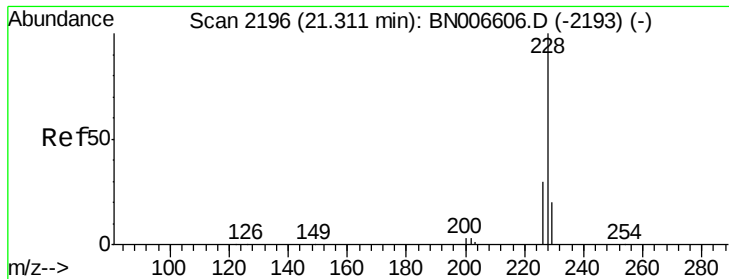
Abundance

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





#31

Chrysene

Concen: 6.651 ng

RT: 21.28 min Scan# 2193

Delta R.T. -0.03 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

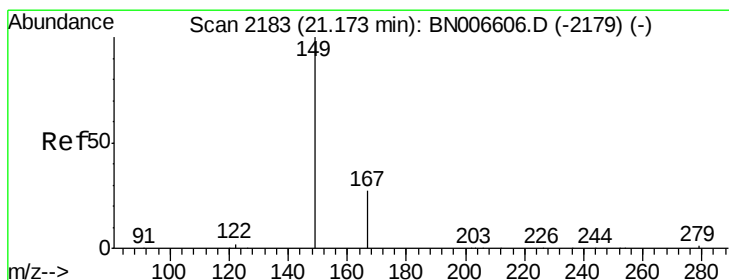
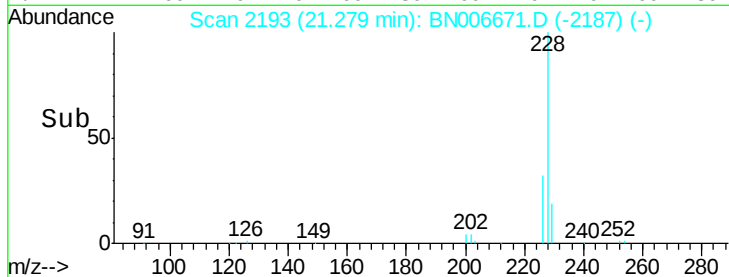
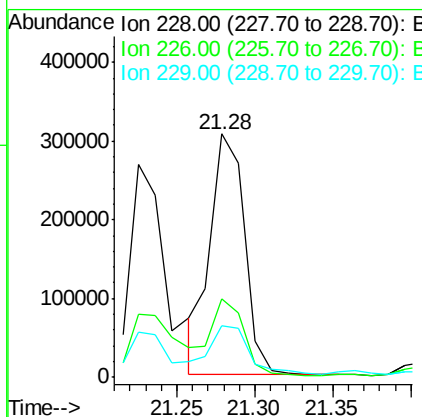
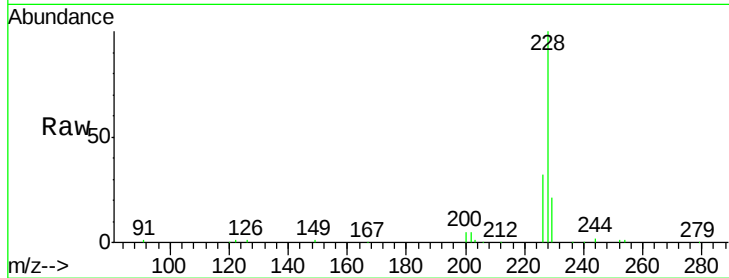
ClientSampleId :

EXT-009-SW136-062019

Tot Ion:	228	Resp:	466457
Ion Ratio	Lower	Upper	
228	100		
226	32.0	23.8	35.6
229	21.2	15.9	23.9

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#32

Bis(2-ethylhexyl)phthalate

Concen: 3.988 ng

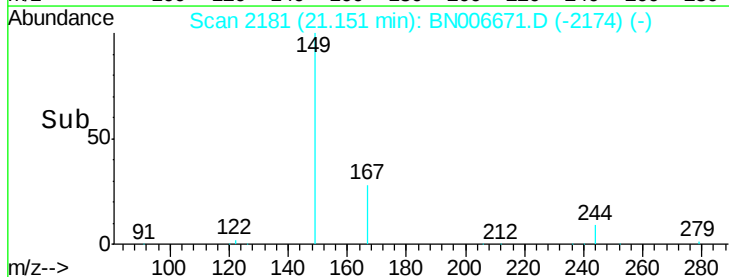
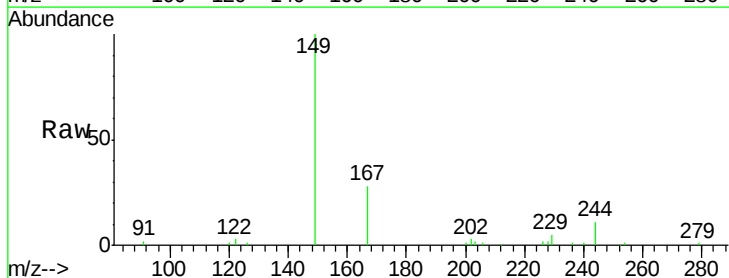
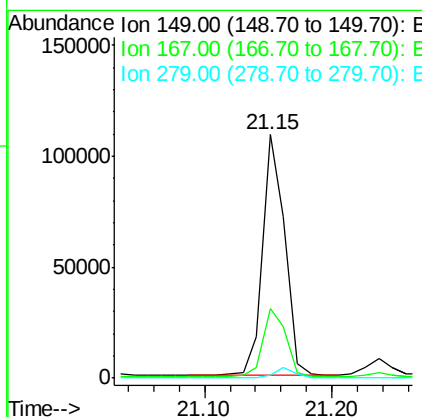
RT: 21.15 min Scan# 2181

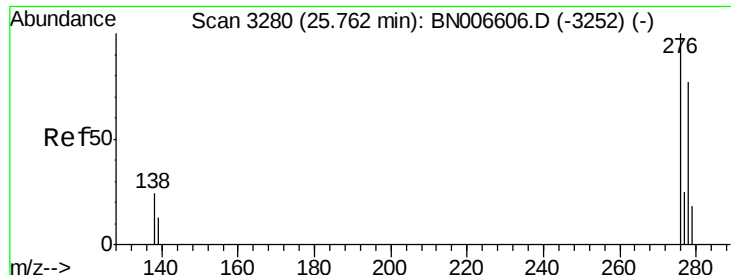
Delta R.T. -0.02 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion:	149	Resp:	130589
Ion Ratio	Lower	Upper	
149	100		
167	29.0	22.9	34.3
279	4.0	3.3	4.9





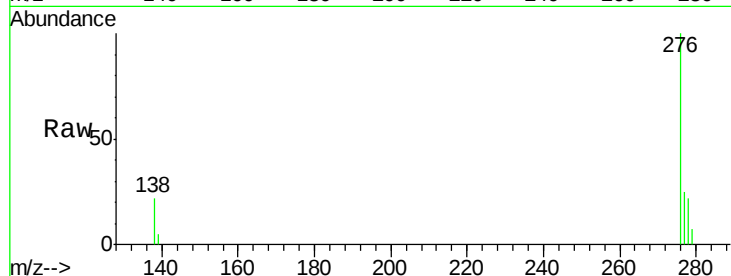
#33
Indeno(1,2,3-cd)pyrene
Concen: 3.903 ng
RT: 25.71 min Scan# 3265
Delta R.T. -0.05 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.7	19.3	28.9
277	24.3	19.9	29.9

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM

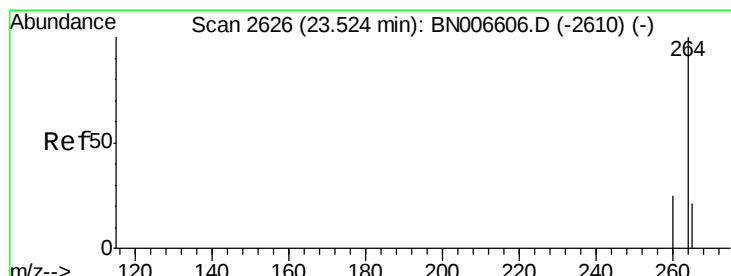
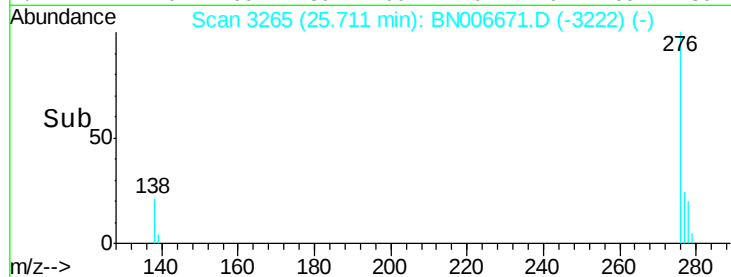
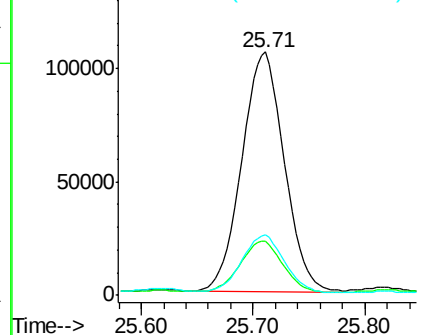


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.48 min Scan# 2613
Delta R.T. -0.04 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

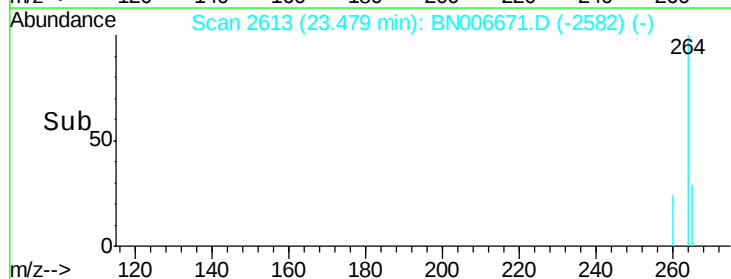
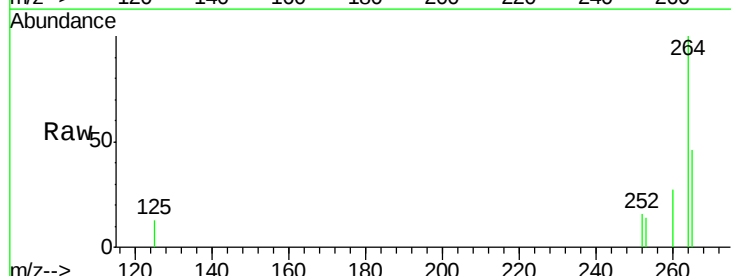
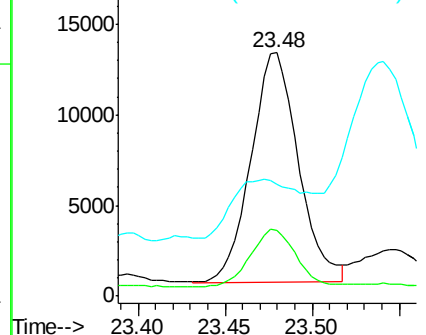
Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.2	20.2	30.2
265	46.2	23.3	34.9

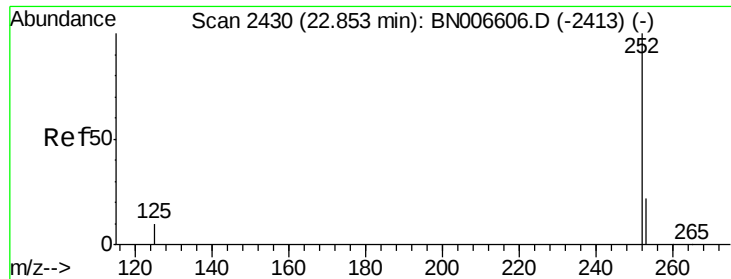
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 6.699 ng

RT: 22.81 min Scan# 2418

Delta R.T. -0.04 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

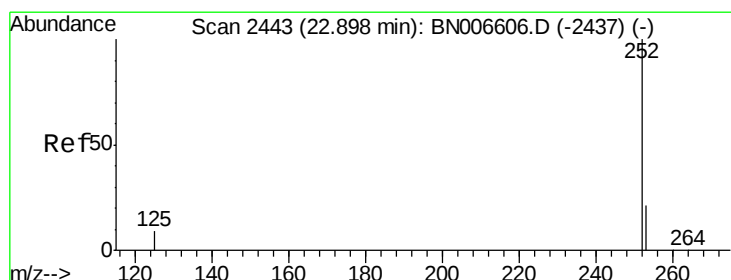
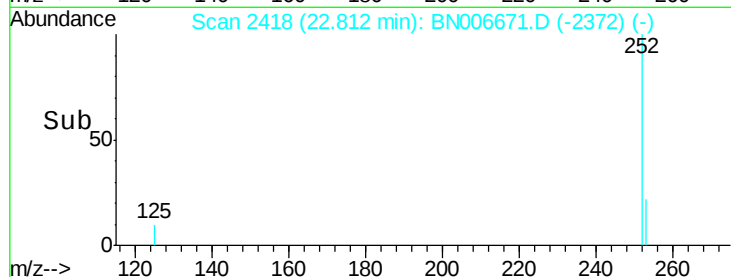
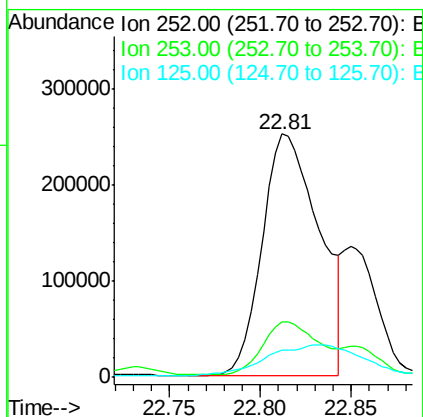
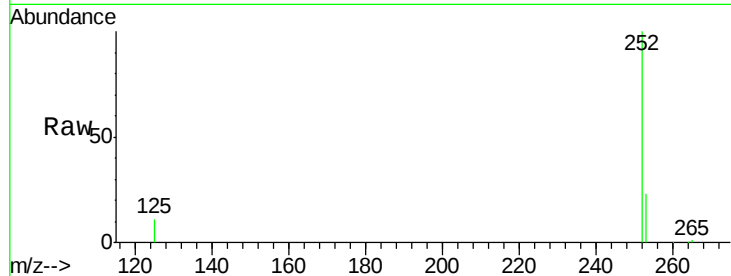
ClientSampleId :

EXT-009-SW136-062019

Tot Ion:	252	Resp:	548411
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.4	27.6
125	11.2	8.7	13.1

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM



#36

Benzo(k)fluoranthene

Concen: 2.067 ng m

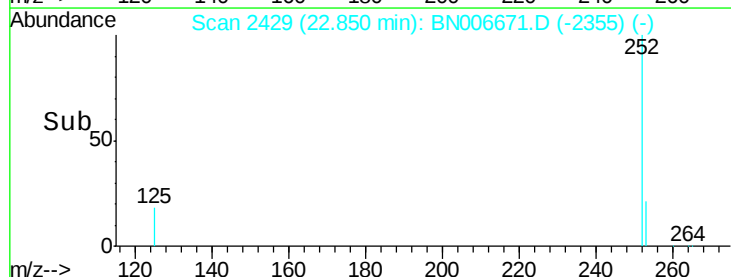
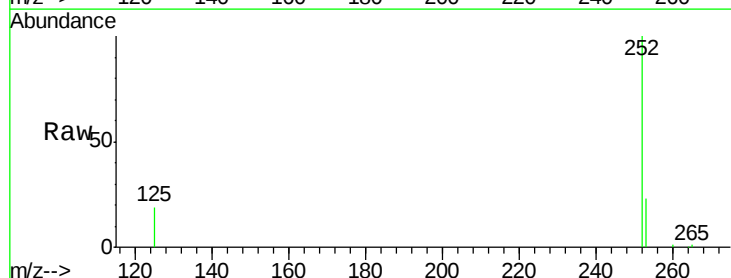
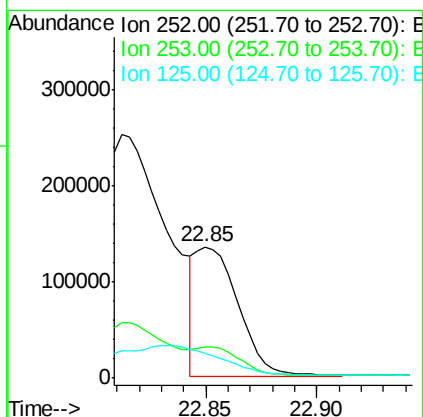
RT: 22.85 min Scan# 2429

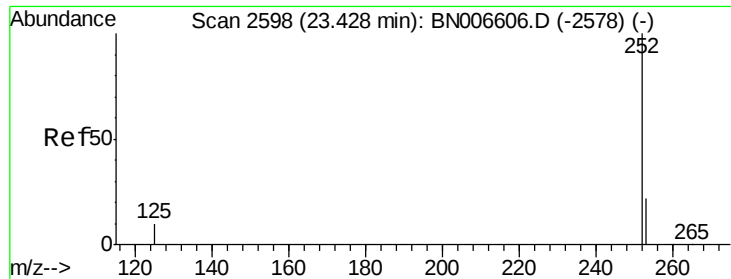
Delta R.T. -0.05 min

Lab File: BN006671.D

Acq: 01 Jul 2019 22:49

Tgt Ion:	252	Resp:	180402
Ion Ratio	Lower	Upper	
252	100		
253	23.5	18.3	27.5
125	19.0	8.4	12.6#





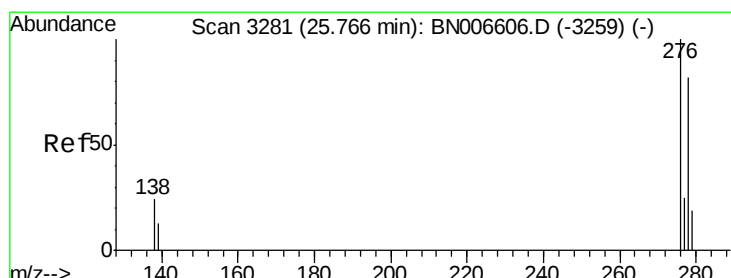
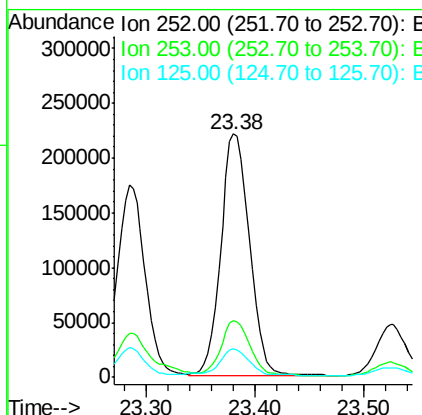
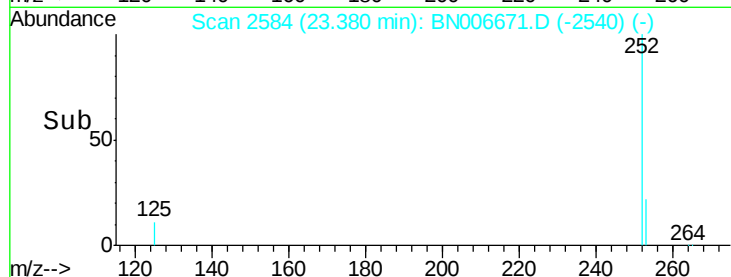
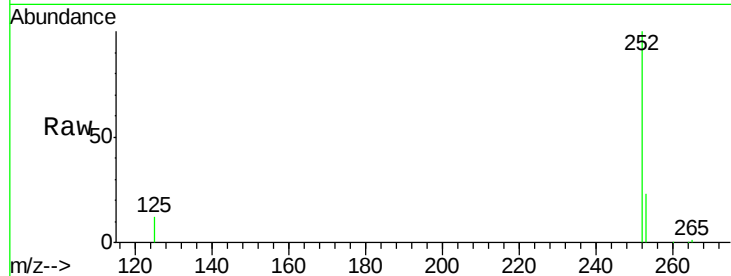
#37
Benzo(a)pyrene
Concen: 5.229 ng
RT: 23.38 min Scan# 2584
Delta R.T. -0.05 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW136-062019

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.1	18.8	28.2
125	11.7	9.4	14.2

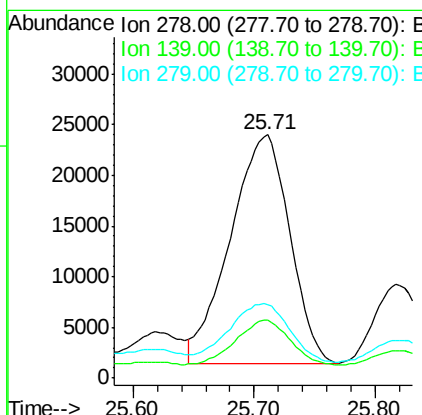
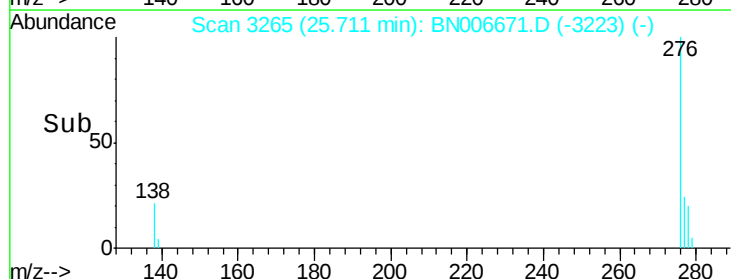
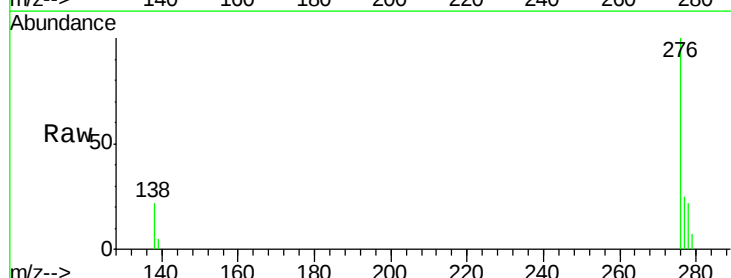
Manual Integrations
APPROVED

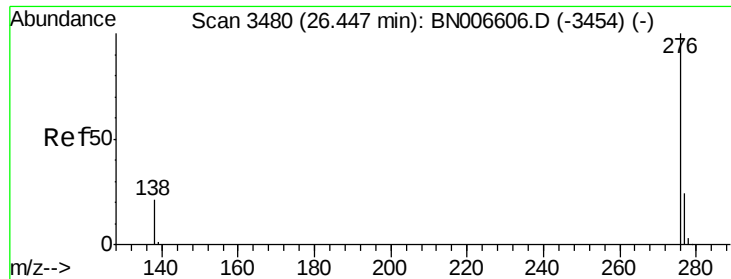
mohammad
7/2/2019 2:52:40 PM



#38
Dibenzo(a,h)anthracene
Concen: 1.149 ng
RT: 25.71 min Scan# 3265
Delta R.T. -0.05 min
Lab File: BN006671.D
Acq: 01 Jul 2019 22:49

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	23.9	13.5	20.3#
279	30.3	19.4	29.2#





#39

Benzo(a,h,i)perylene

Concen: 4.419 ng

RT: 26.40 min Scan# 3465

Delta R.T. -0.05 min

Lab File: BN006671.D

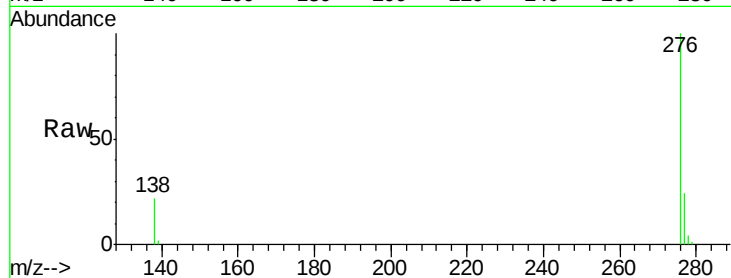
Acq: 01 Jul 2019 22:49

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW136-062019



Tot Ion:	276	Resp:	294913
Ion Ratio	Lower	Upper	
276	100		
277	24.4	19.6	29.4
138	22.4	17.7	26.5

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:40 PM

