

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070519\
 Data File : BN006709.D
 Acq On : 05 Jul 2019 11:22
 Operator : HP/JU
 Sample : K3504-16DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-009-SW140-062019DL

Manual Integrations
 APPROVED

mohammad
 7/6/2019 12:14:23 AM

Quant Time: Jul 05 23:06:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN070219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 05 05:30:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	2809	0.40	ng	-0.02
7) Naphthalene-d8	10.38	136	11660	0.40	ng	-0.01
13) Acenaphthene-d10	14.24	164	7227	0.40	ng	-0.02
19) Phenanthrene-d10	17.00	188	16245	0.40	ng	-0.02
27) Chrysene-d12	21.23	240	16529	0.40	ng	-0.03
34) Perylene-d12	23.45	264	19013	0.40	ng	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	5.24	112	346	0.05	ng	0.00
5) Phenol-d6	6.84	99	411	0.04	ng	0.00
8) Nitrobenzene-d5	8.82	82	374	0.04	ng	0.03
11) 2-Methylnaphthalene-d10	11.98	152	864	0.05	ng	-0.02
14) 2,4,6-Tribromophenol	15.77	330	174	0.05	ng	-0.02
15) 2-Fluorobiphenyl	12.86	172	1210	0.04	ng	-0.02
25) Fluoranthene-d10	19.05	212	2177	0.05	ng	-0.03
29) Terphenyl-d14	19.66	244	1607	0.04	ng	-0.02
Target Compounds						Qvalue
9) Naphthalene	10.41	128	3945	0.124	ng	# 88
12) 2-Methylnaphthalene	12.05	142	3043	0.102	ng	# 96
16) Acenaphthylene	13.96	152	21370	0.593	ng	99
17) Acenaphthene	14.31	154	1505	0.066	ng	# 92
18) Fluorene	15.31	166	3616	0.127	ng	# 78
23) Phenanthrene	17.05	178	75380	1.610	ng	100
24) Anthracene	17.14	178	15649	0.370	ng	# 95
26) Fluoranthene	19.08	202	114400	2.081	ng	99
28) Pyrene	19.44	202	151452	2.290	ng	97
30) Benzo(a)anthracene	21.22	228	64025	1.123	ng	93
31) Chrysene	21.27	228	71928	1.224	ng	97
32) Bis(2-ethylhexyl)phthalate	21.13	149	5384	0.032	ng	# 97
33) Indeno(1,2,3-cd)pyrene	25.67	276	41993	0.598	ng	# 94
35) Benzo(b)fluoranthene	22.79	252	80478	1.319	ng	96
36) Benzo(k)fluoranthene	22.83	252	22627m	0.342	ng	
37) Benzo(a)pyrene	23.36	252	60206m	1.018	ng	
38) Dibenzo(a,h)anthracene	25.67	278	11380	0.194	ng	# 84
39) Benzo(a,h,i)perylene	26.35	276	47806	0.791	ng	96

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

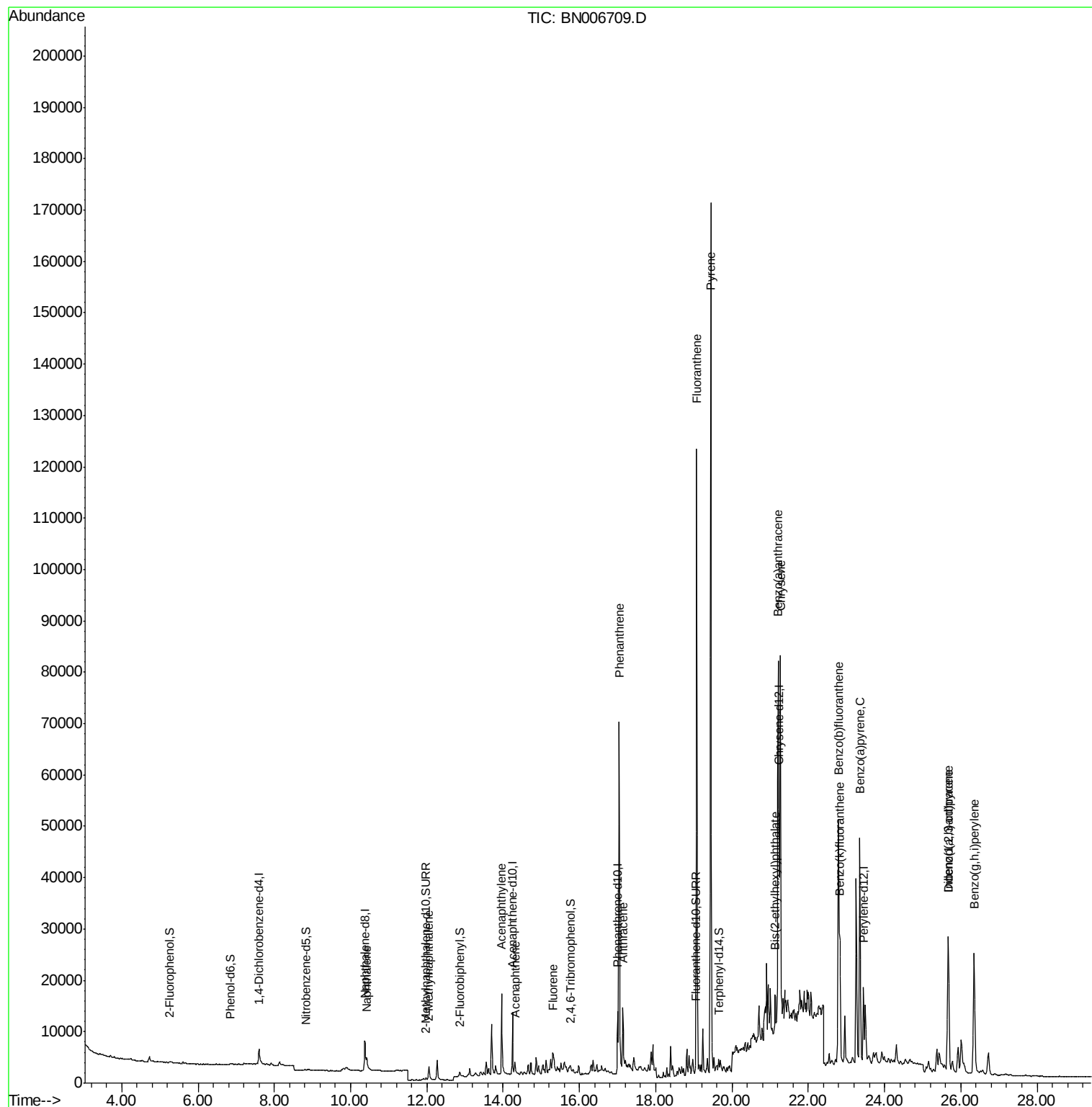
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070519\
Data File : BN006709.D
Acq On : 05 Jul 2019 11:22
Operator : HP/JU
Sample : K3504-16DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

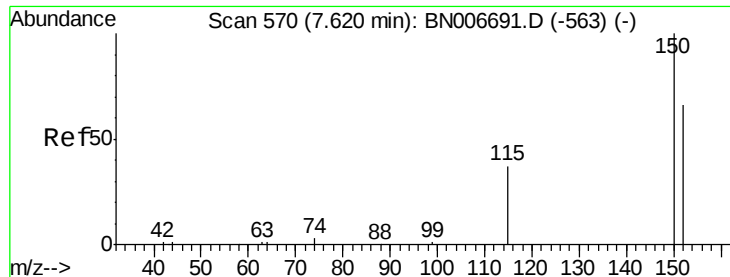
Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM

Quant Time: Jul 05 23:06:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN070219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 05 05:30:28 2019
Response via : Initial Calibration





#1

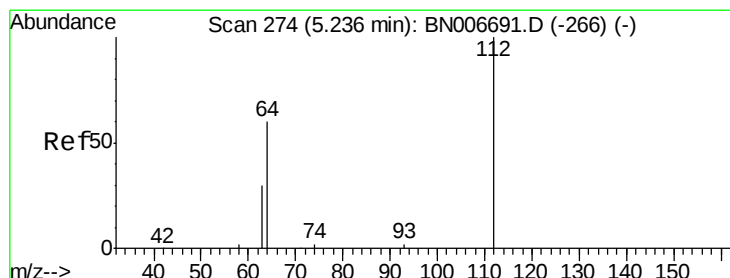
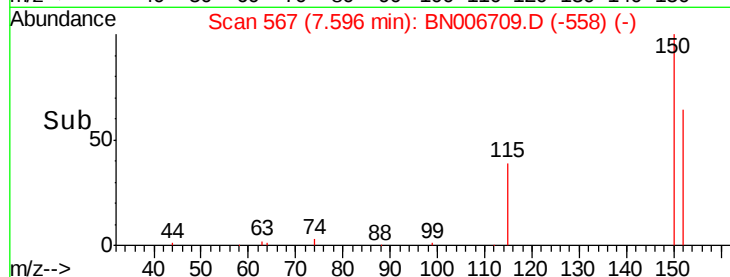
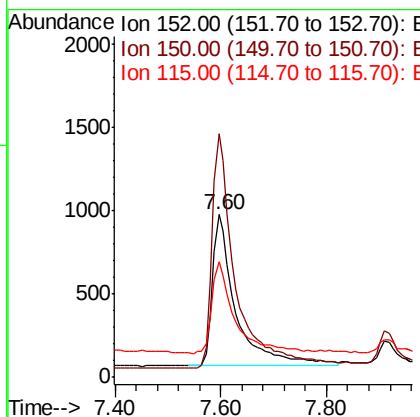
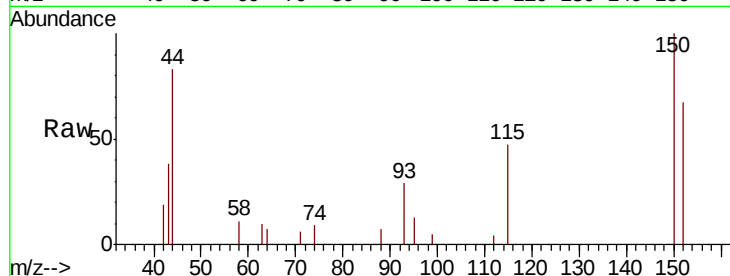
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.60 min Scan# 567
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.6	120.6	181.0
115	71.0	51.0	76.6

Manual Integrations
APPROVED

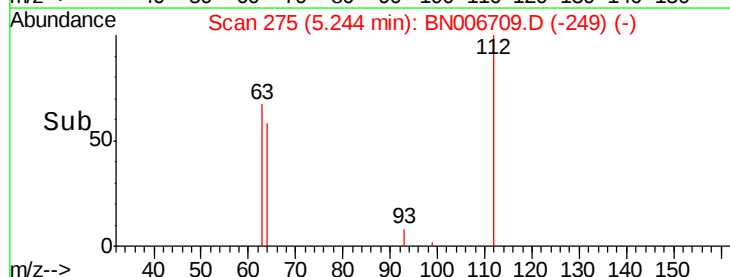
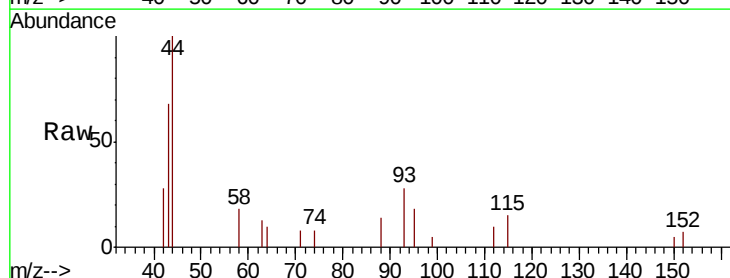
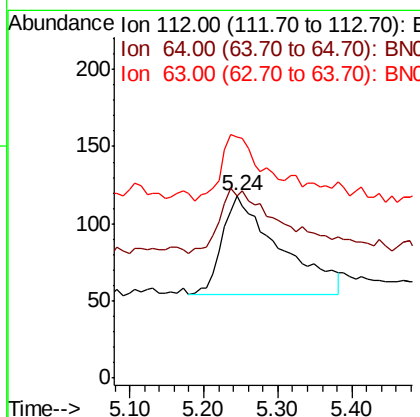
mohammad
7/6/2019 12:14:23 AM

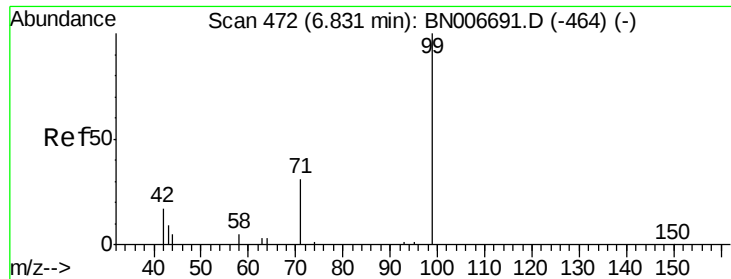


#4

2-Fluorophenol
Concen: 0.045 ng
RT: 5.24 min Scan# 275
Delta R.T. 0.01 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.9	49.8	74.6
63	46.0	25.8	38.6





#5

Phenol-d6

Concen: 0.043 ng

RT: 6.84 min Scan# 473

Delta R.T. 0.01 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Instrument :

BNA_N

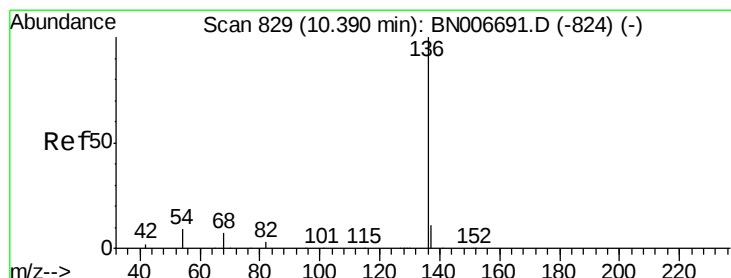
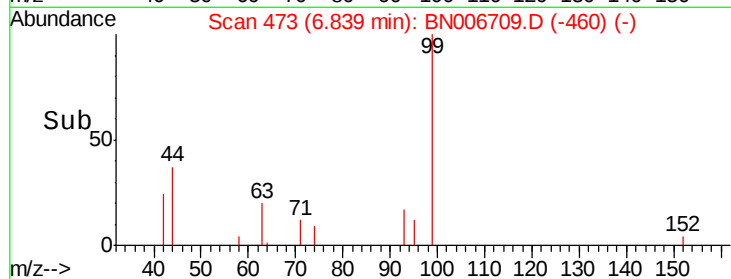
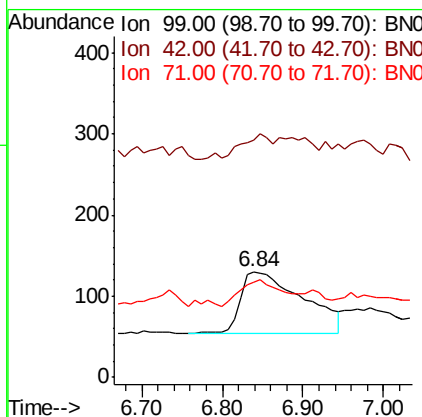
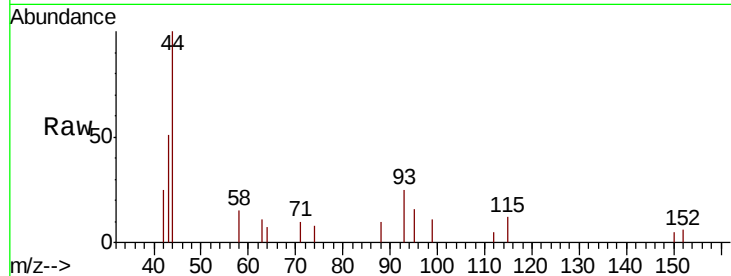
ClientSampleId :

EXT-009-SW140-062019DL

Tot Ion:	99	Resp:	411
Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.6	25.0
71	26.5	26.0	39.0

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM



#7

Naphthalene-d8

Concen: 0.400 ng

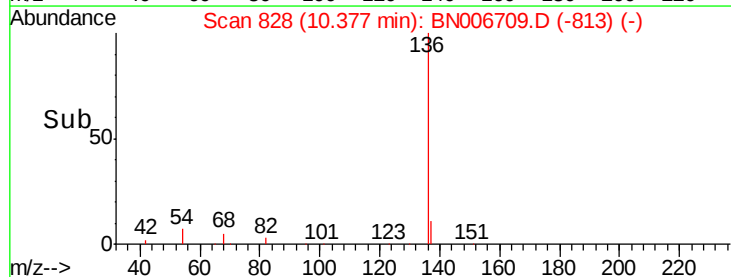
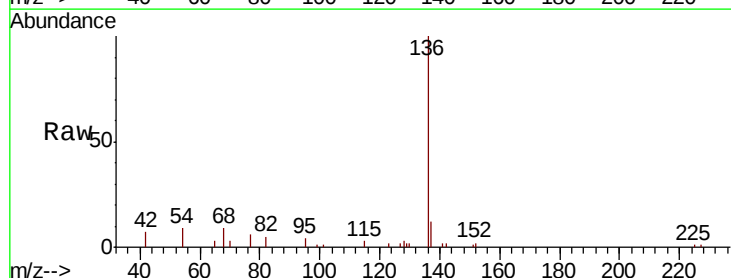
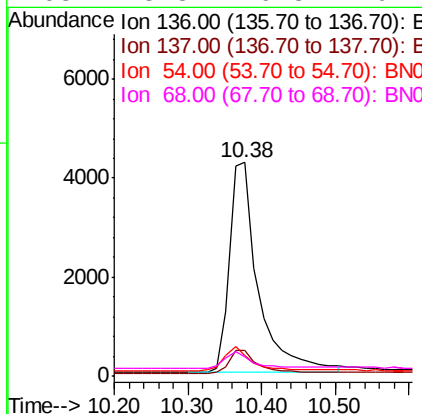
RT: 10.38 min Scan# 828

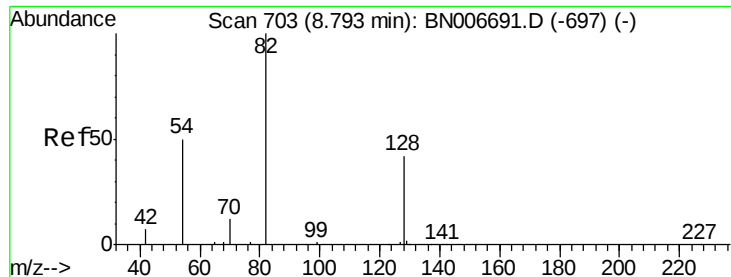
Delta R.T. -0.01 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Tgt Ion:	136	Resp:	11660
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.3	13.9
54	9.3	8.4	12.6
68	8.8	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.042 ng

RT: 8.82 min Scan# 705

Delta R.T. 0.03 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Instrument :

BNA_N

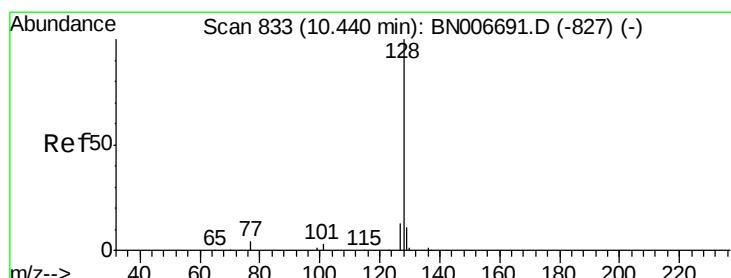
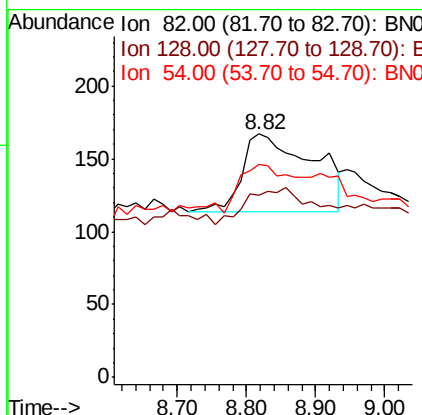
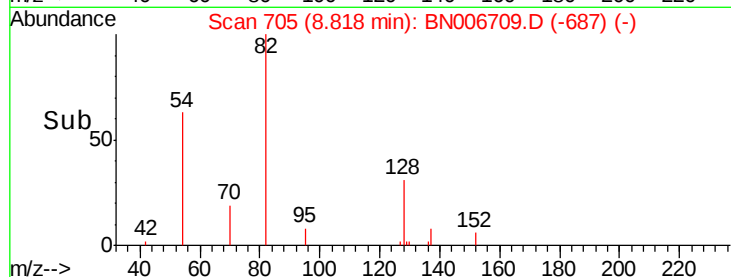
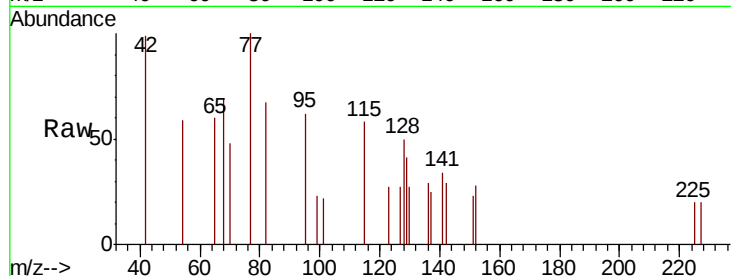
ClientSampleId :

EXT-009-SW140-062019DL

Tot Ion:	82	Resp:	374
Ion	Ratio	Lower	Upper
82	100		
128	74.9	36.1	54.1#
54	87.4	44.5	66.7#

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM



#9

Naphthalene

Concen: 0.124 ng

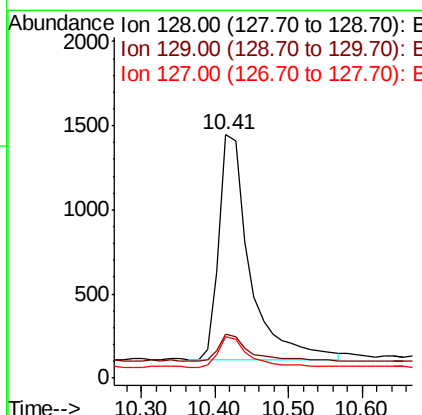
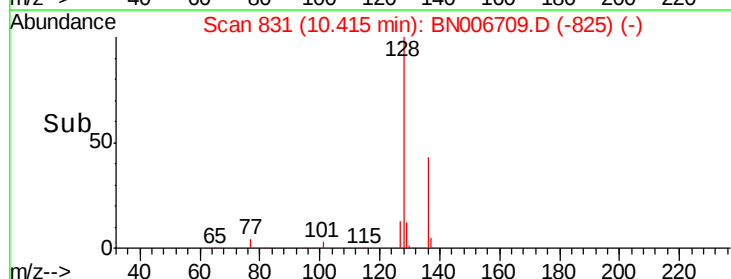
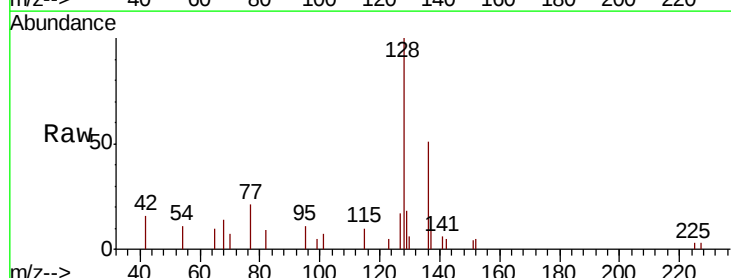
RT: 10.41 min Scan# 831

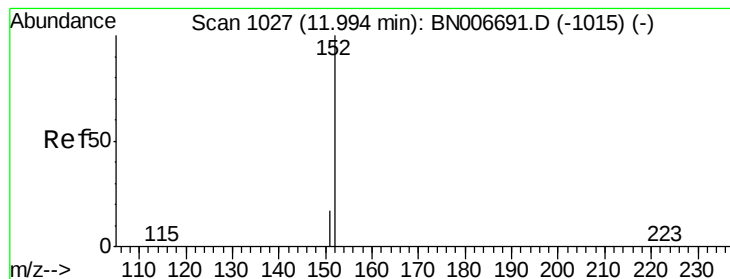
Delta R.T. -0.03 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Tgt Ion:	128	Resp:	3945
Ion	Ratio	Lower	Upper
128	100		
129	18.0	9.6	14.4#
127	16.9	11.0	16.4#





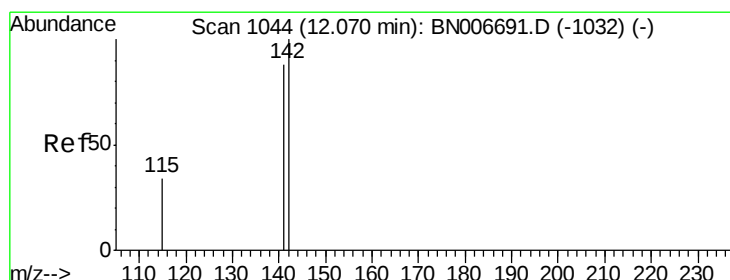
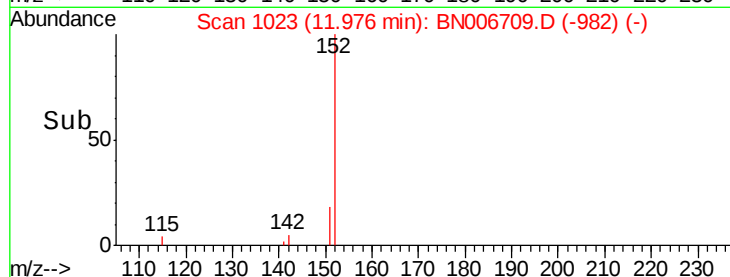
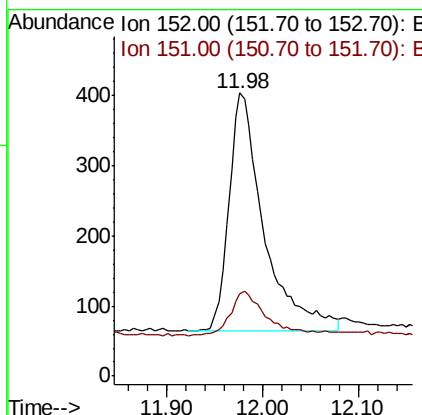
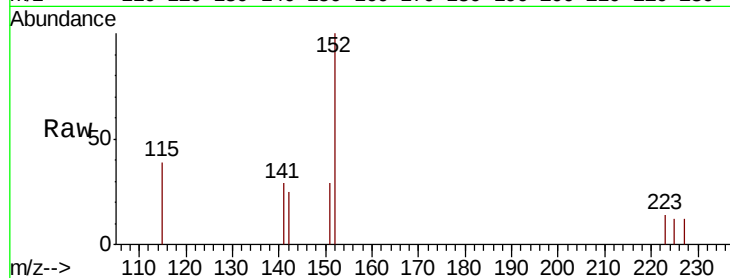
#11
2-Methylnaphthalene-d10
Concen: 0.049 ng
RT: 11.98 min Scan# 1023
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.0	14.9	22.3

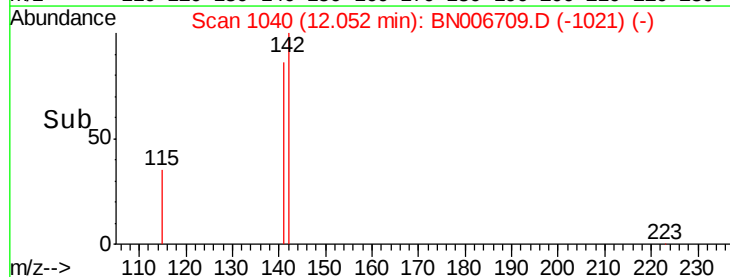
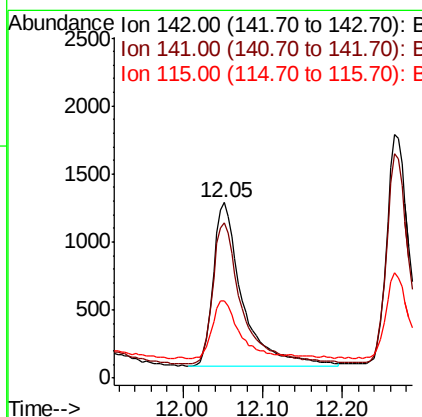
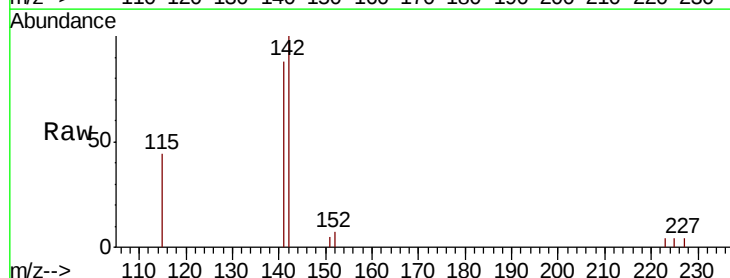
Manual Integrations
APPROVED

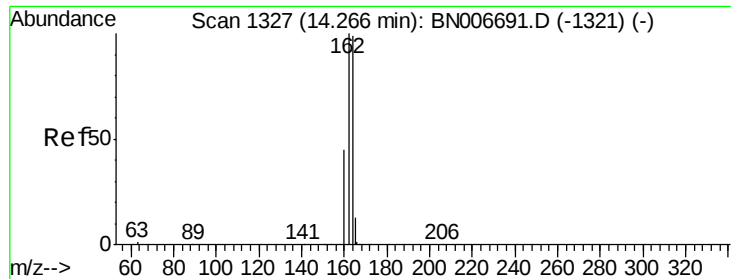
mohammad
7/6/2019 12:14:23 AM



#12
2-Methylnaphthalene
Concen: 0.102 ng
RT: 12.05 min Scan# 1040
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.3	105.5
115	43.7	28.9	43.3





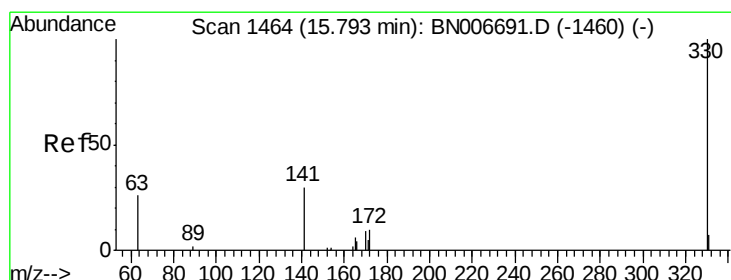
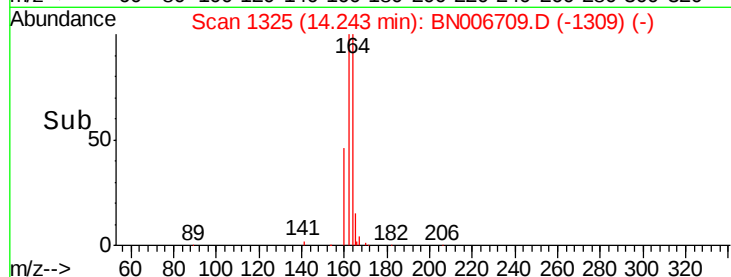
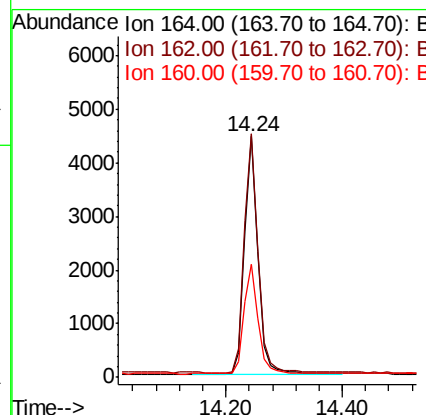
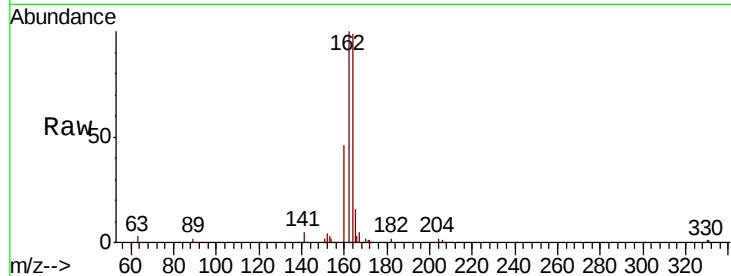
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.24 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.8	121.2
160	46.9	37.0	55.6

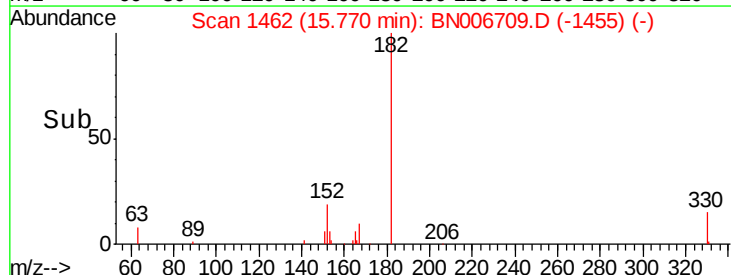
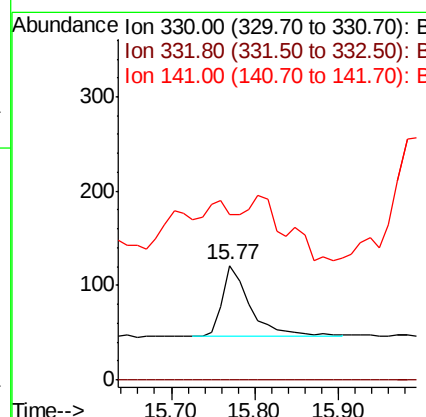
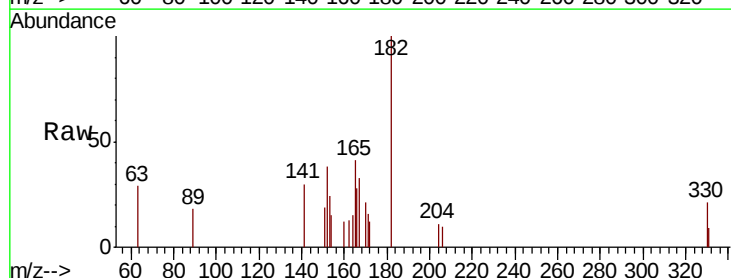
Manual Integrations
APPROVED

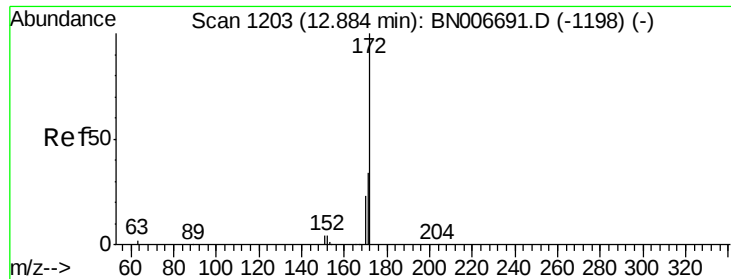
mohammad
7/6/2019 12:14:23 AM



#14
2,4,6-Tribromophenol
Concen: 0.049 ng
RT: 15.77 min Scan# 1462
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	40.2	24.8	37.2#





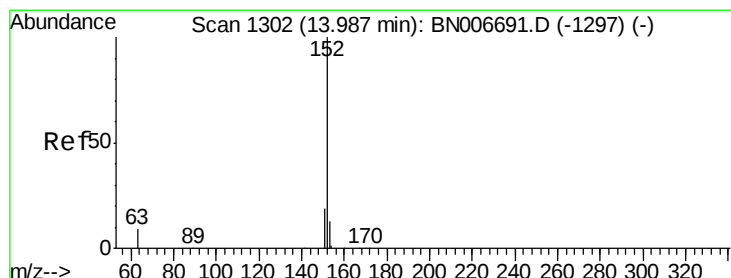
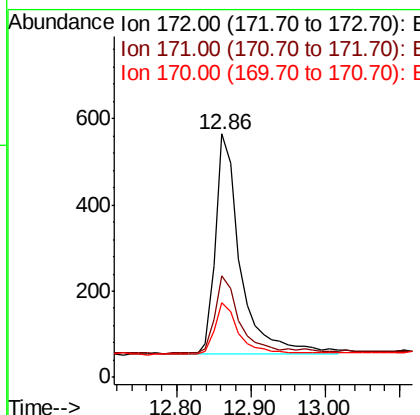
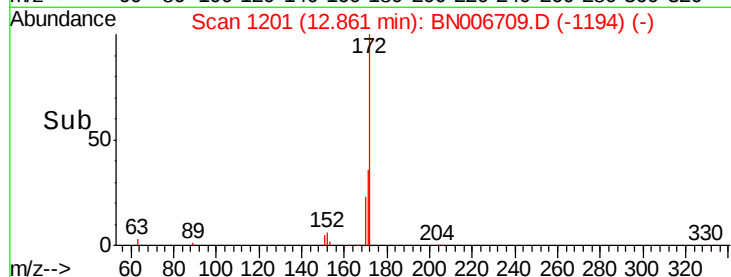
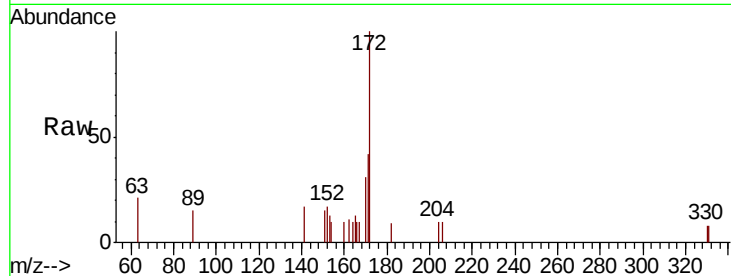
#15
2-Fluorobiphenyl
Concen: 0.043 ng
RT: 12.86 min Scan# 1201
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	41.9	27.8	41.6#
170	30.6	18.9	28.3#

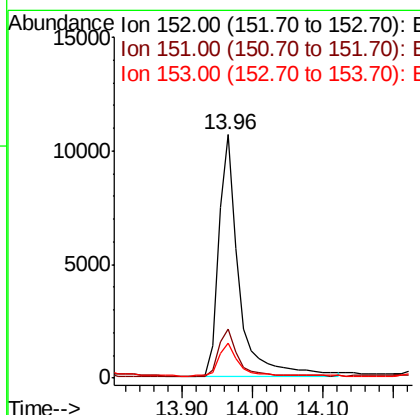
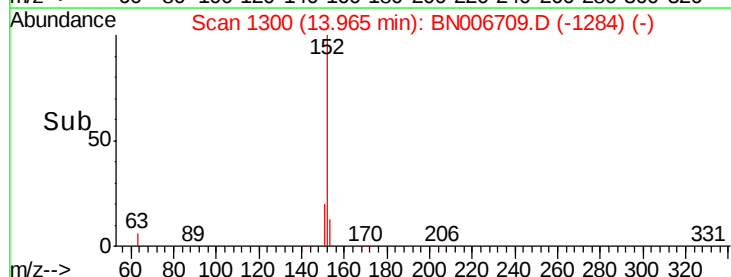
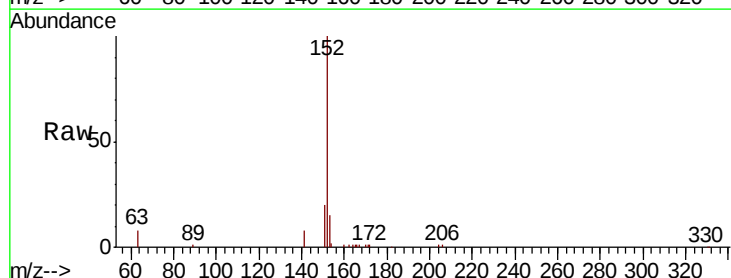
Manual Integrations
APPROVED

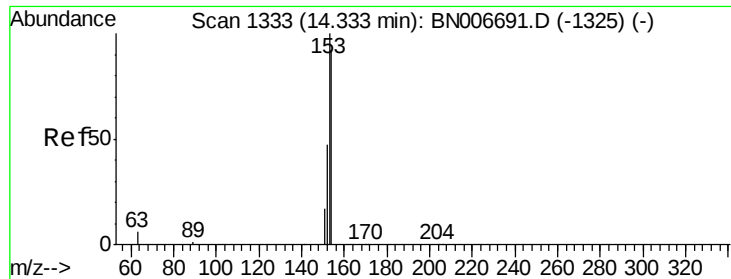
mohammad
7/6/2019 12:14:23 AM



#16
Acenaphthylene
Concen: 0.593 ng
RT: 13.96 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.7	23.5
153	13.5	10.6	15.8





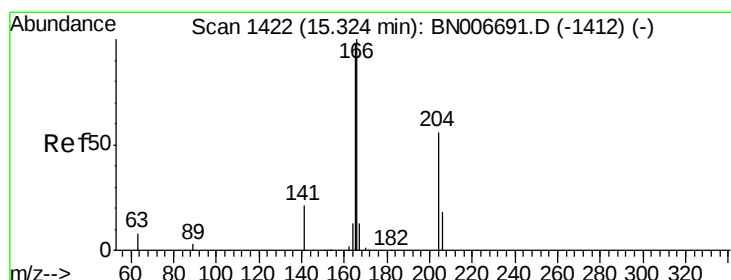
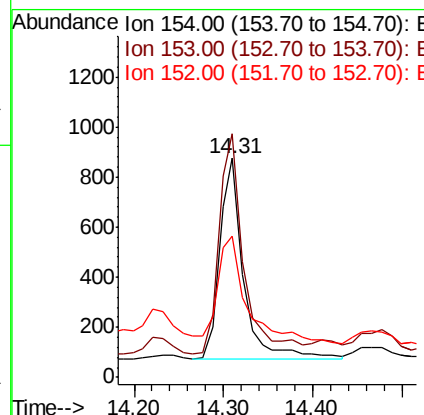
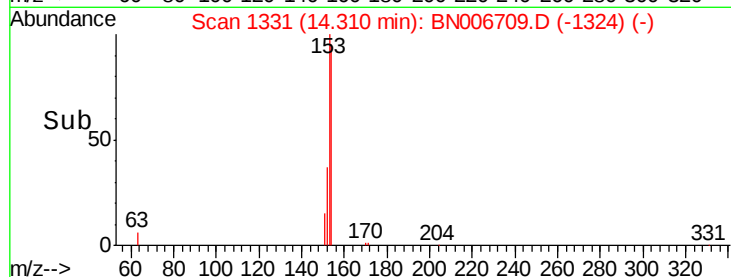
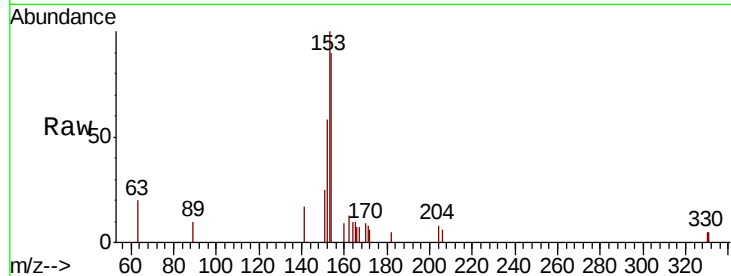
#17
Acenaphthene
Concen: 0.066 ng
RT: 14.31 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.0	88.9	133.3
152	66.0	42.8	64.2#

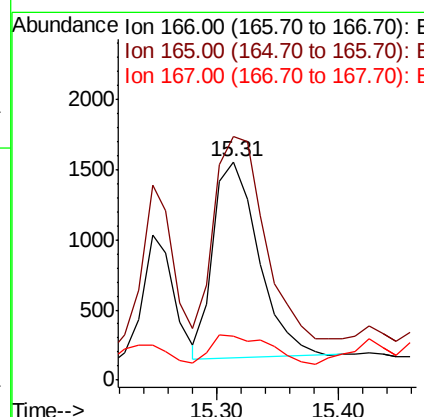
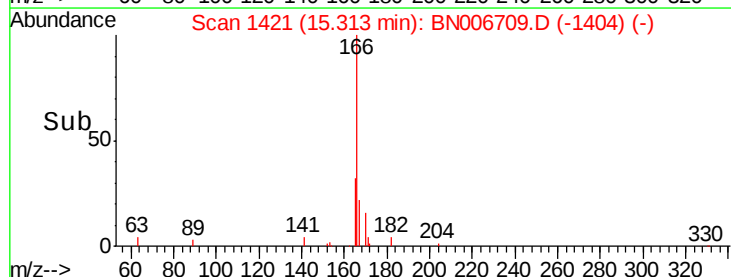
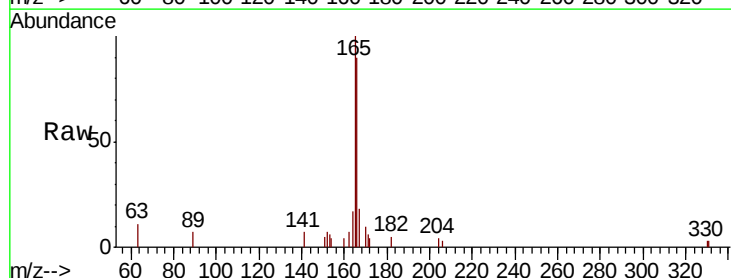
Manual Integrations
APPROVED

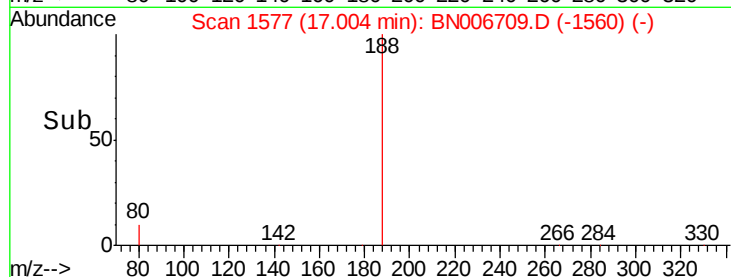
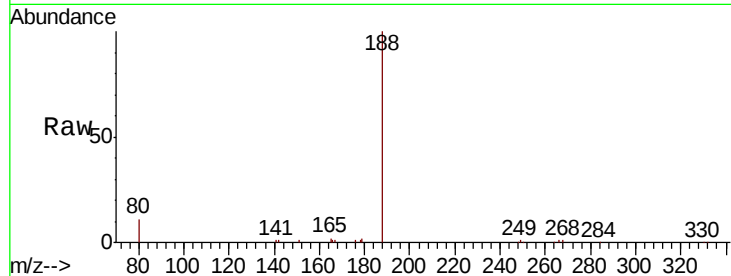
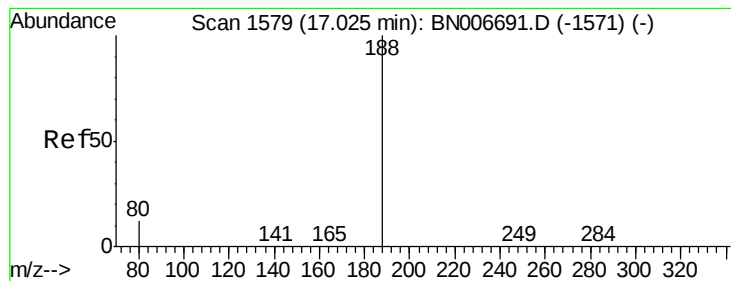
mohammad
7/6/2019 12:14:23 AM



#18
Fluorene
Concen: 0.127 ng
RT: 15.31 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
166	100		
165	120.4	78.0	117.0#
167	18.7	10.7	16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.00 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Instrument :

BNA_N

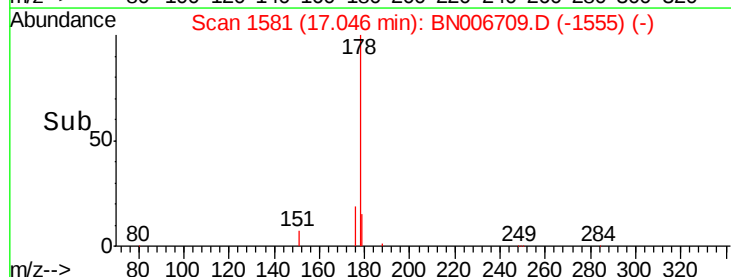
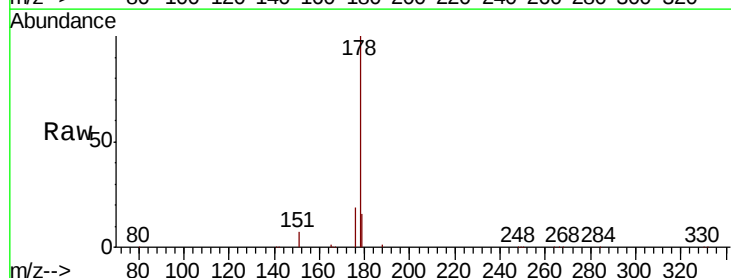
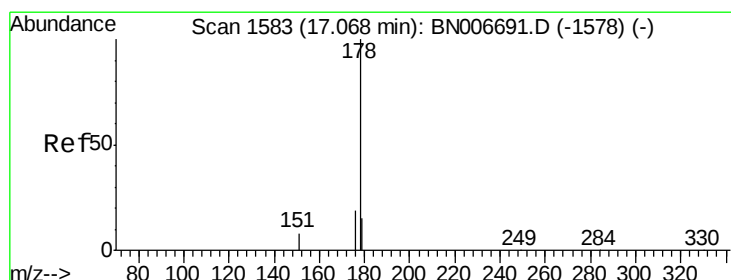
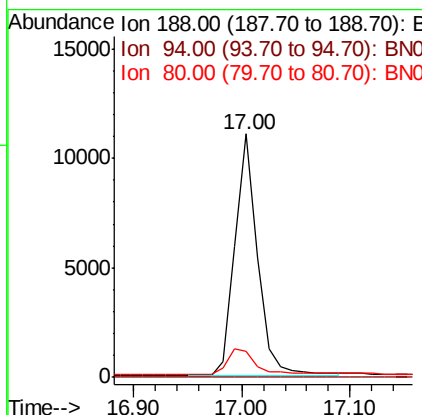
ClientSampleId :

EXT-009-SW140-062019DL

Tot Ion:	188	Resp:	16245
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.9	10.3	15.5

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM



#23

Phenanthrene

Concen: 1.610 ng

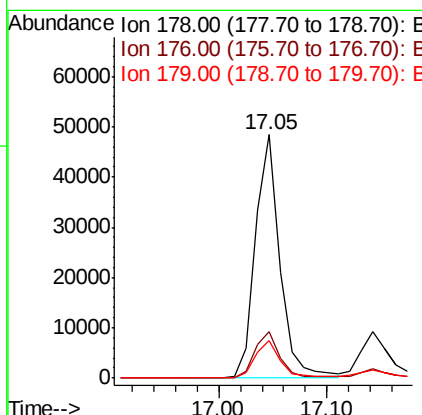
RT: 17.05 min Scan# 1581

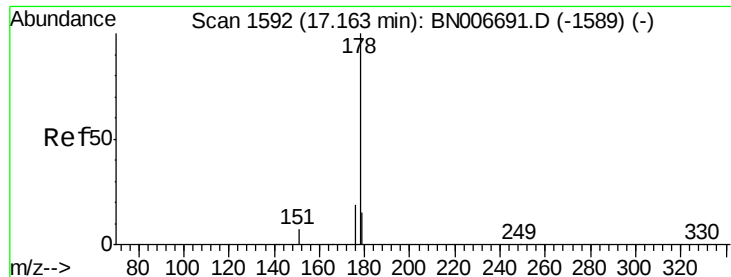
Delta R.T. -0.02 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Tgt Ion:	178	Resp:	75380
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.3	22.9
179	15.4	12.4	18.6





#24

Anthracene

Concen: 0.370 ng

RT: 17.14 min Scan# 1590

Delta R.T. -0.02 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Instrument :

BNA_N

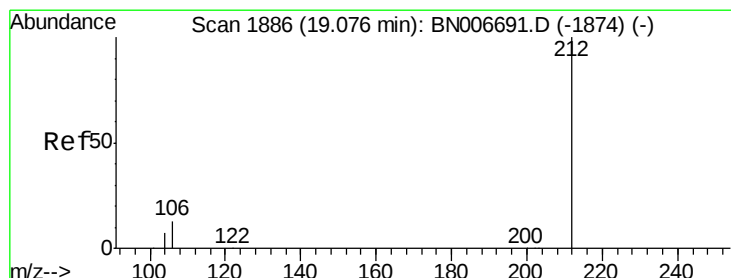
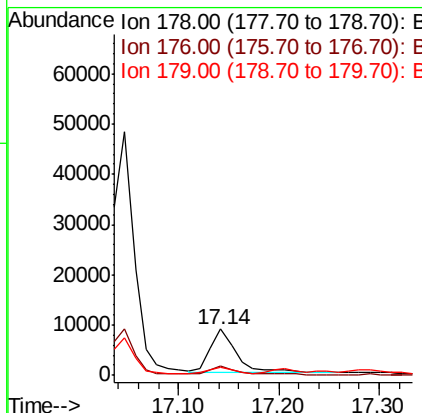
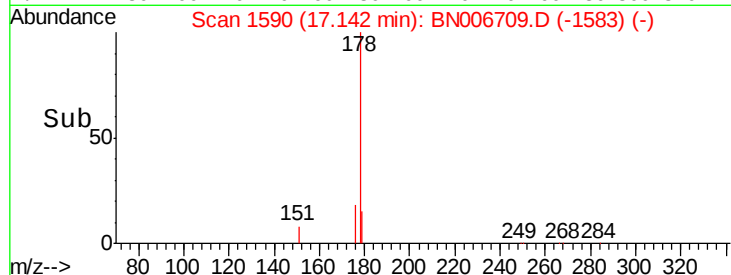
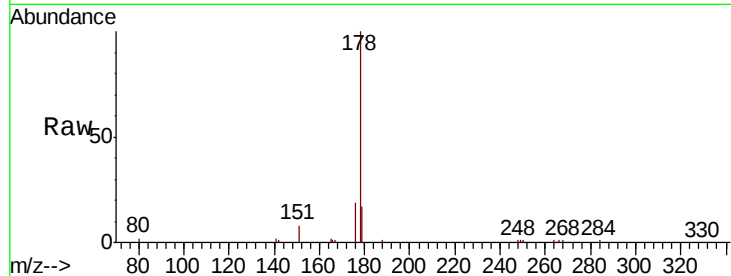
ClientSampleId :

EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.8	22.2
179	10.9	11.9	17.9

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM



#25

Fluoranthene-d10

Concen: 0.047 ng

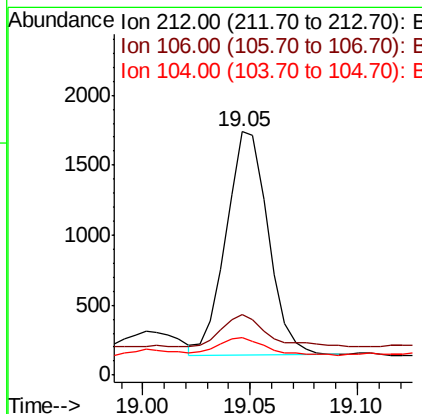
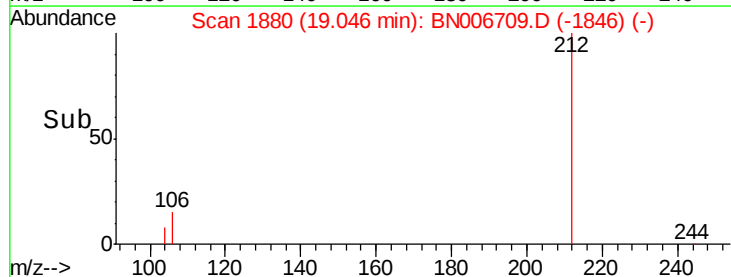
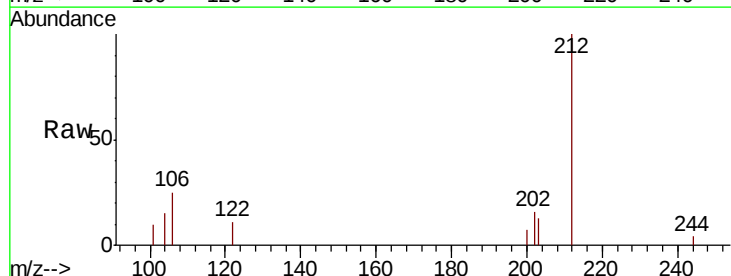
RT: 19.05 min Scan# 1880

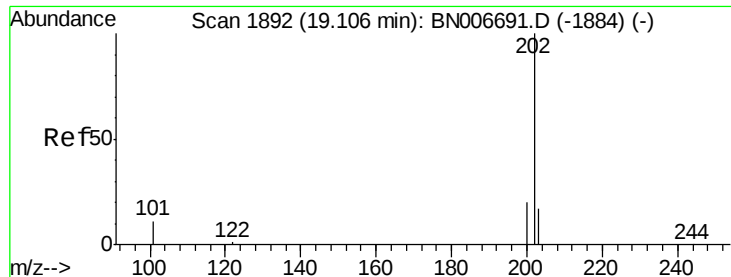
Delta R.T. -0.03 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.0	16.6
104	9.0	6.1	9.1





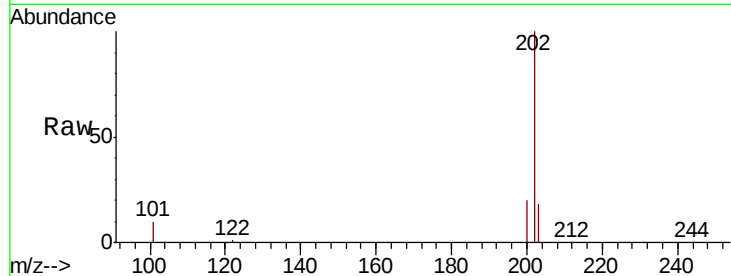
#26
Fluoranthene
Concen: 2.081 ng
RT: 19.08 min Scan# 1887
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	114400		
101	11.4	8.7	13.1	
203	17.7	13.8	20.6	

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM

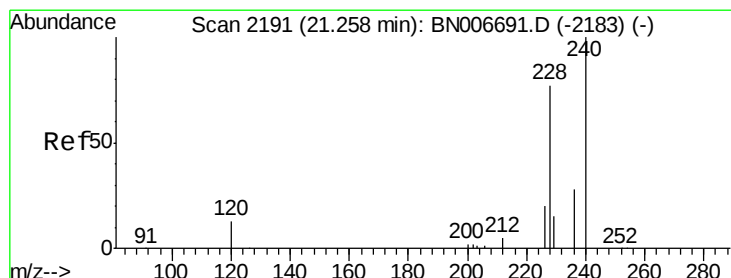
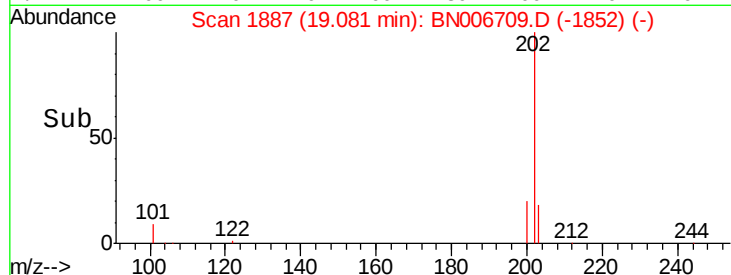
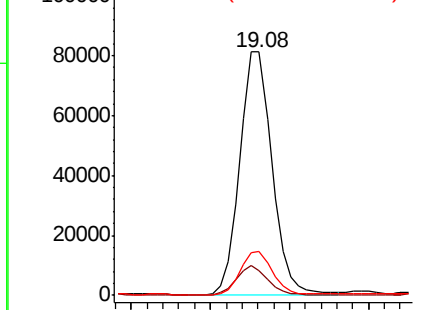


Abundance

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: 21.23 min Scan# 2188
Delta R.T. -0.03 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

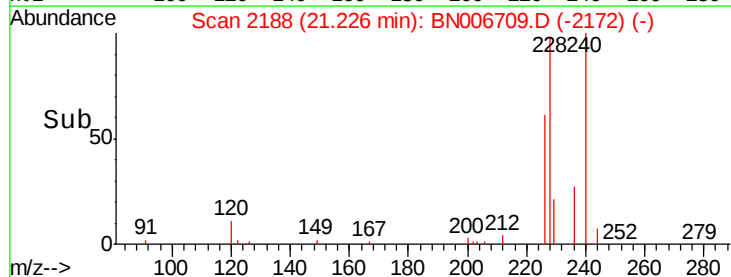
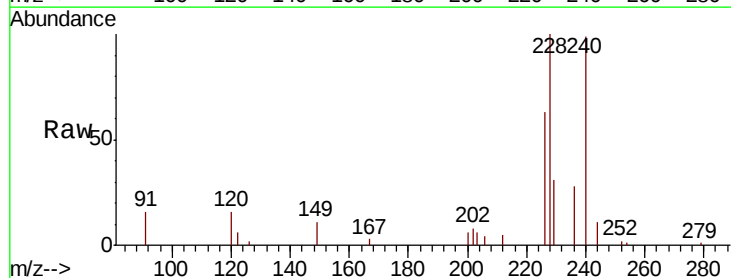
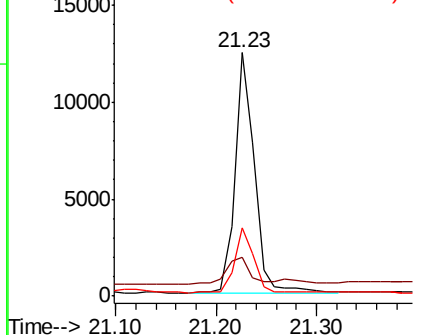
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	16529		
120	16.0	12.9	19.3	
236	28.1	23.2	34.8	

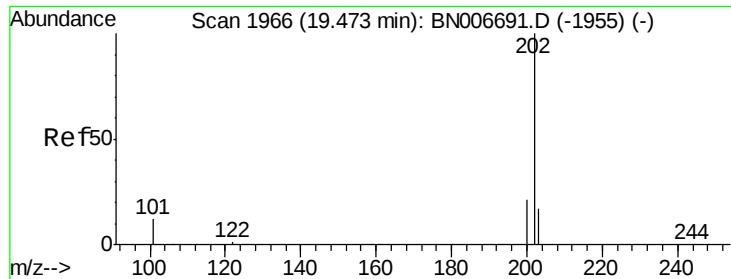
Abundance

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





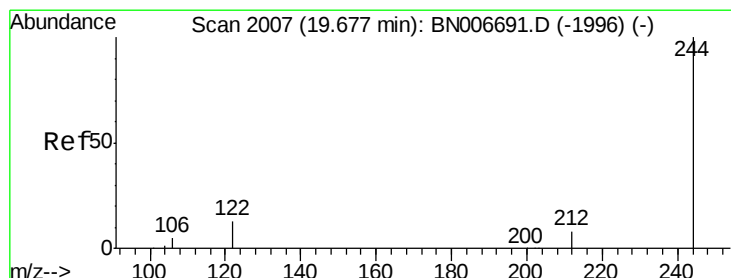
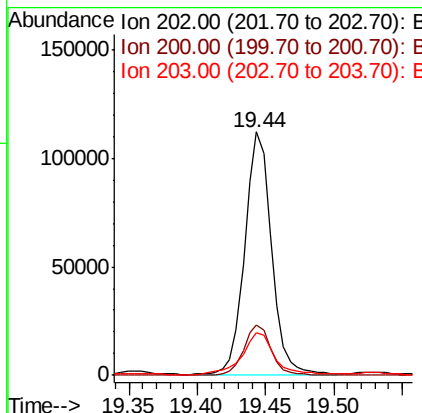
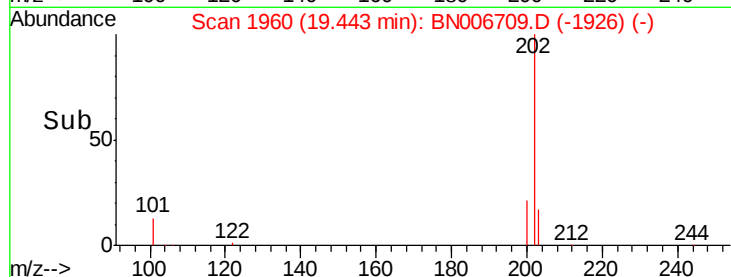
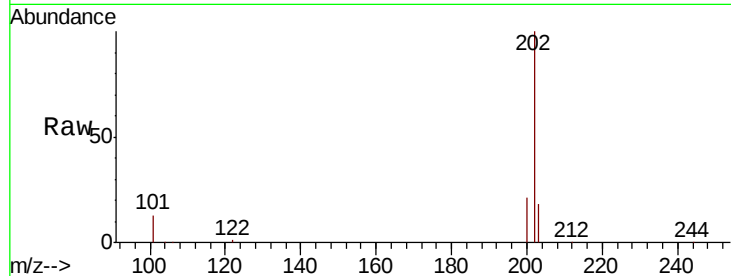
#28
Pvrene
Concen: 2.290 ng
RT: 19.44 min Scan# 1960
Delta R.T. -0.03 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.7	16.8	25.2
203	20.0	14.2	21.2

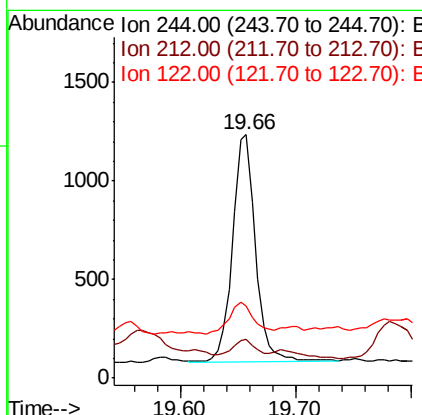
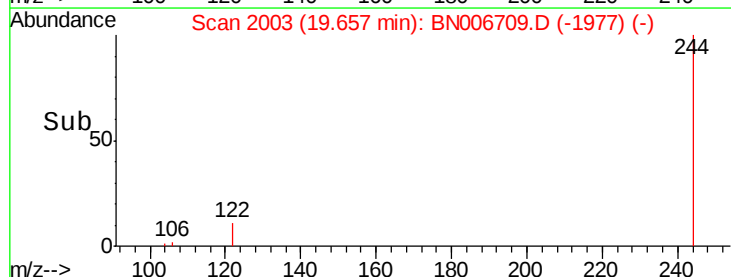
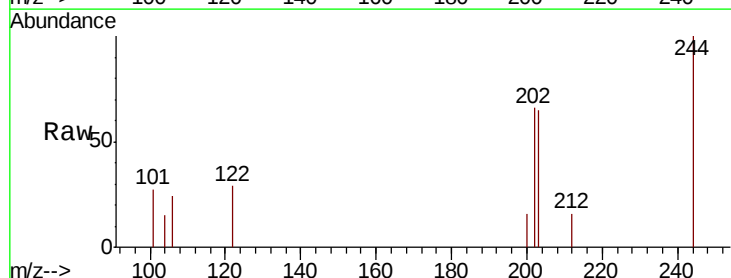
Manual Integrations
APPROVED

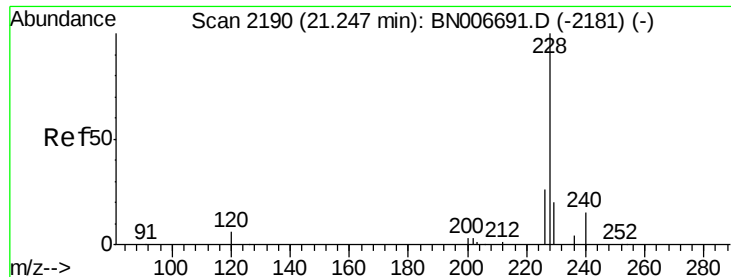
mohammad
7/6/2019 12:14:23 AM



#29
Terphenyl-d14
Concen: 0.042 ng
RT: 19.66 min Scan# 2003
Delta R.T. -0.02 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	15.9	7.0	10.4#
122	29.4	11.5	17.3#





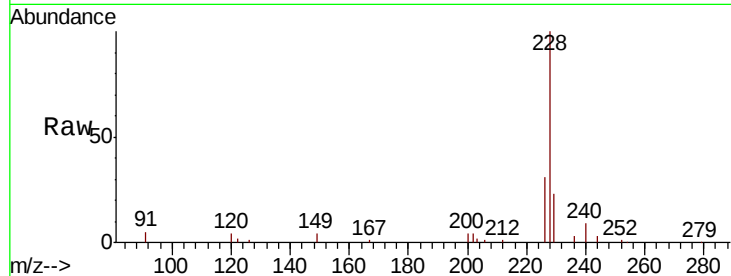
#30
Benzo(a)anthracene
Concen: 1.123 ng
RT: 21.22 min Scan# 2187
Delta R.T. -0.03 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	21.5	32.3
229	23.3	16.2	24.4

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM

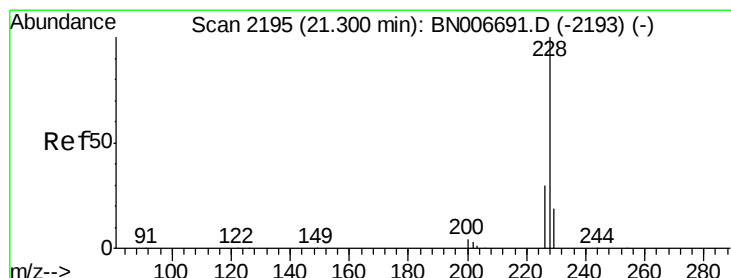
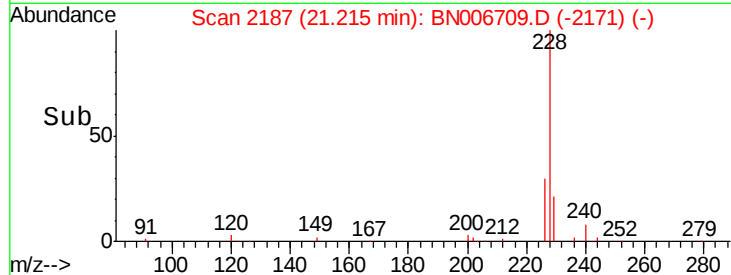
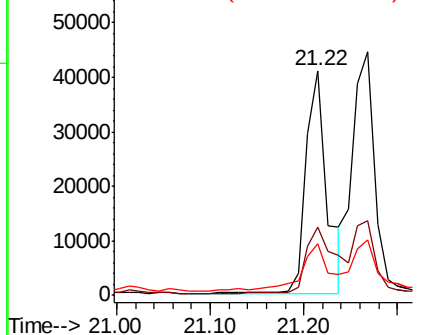


Abundance

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: 1.224 ng
RT: 21.27 min Scan# 2192
Delta R.T. -0.03 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

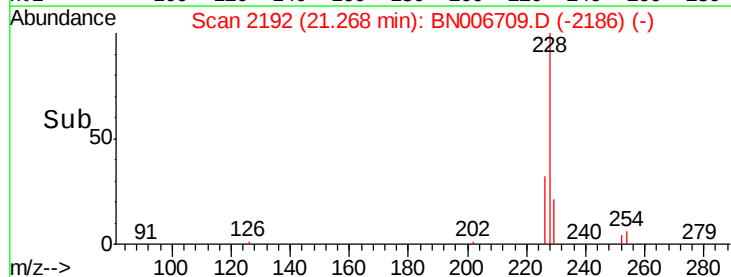
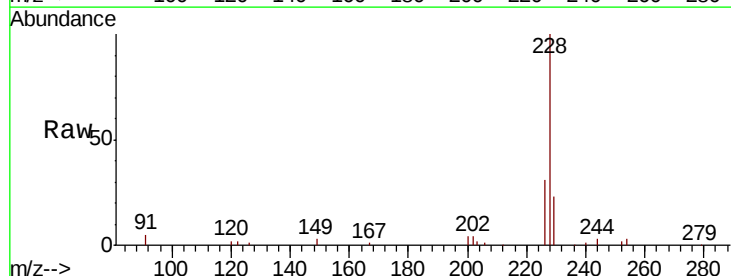
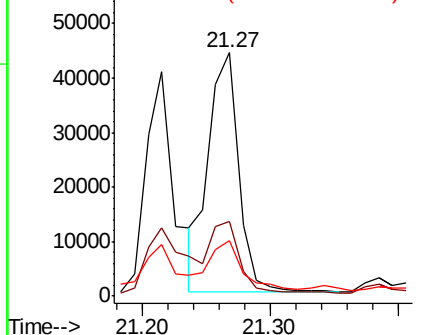
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.2	36.2
229	22.7	15.8	23.6

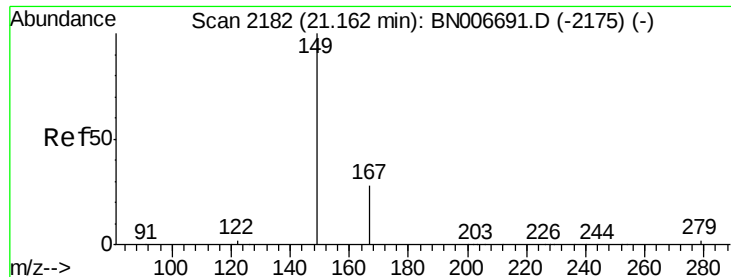
Abundance

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: 0.032 ng

RT: 21.13 min Scan# 2179

Delta R.T. -0.03 min

Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Instrument :

BNA_N

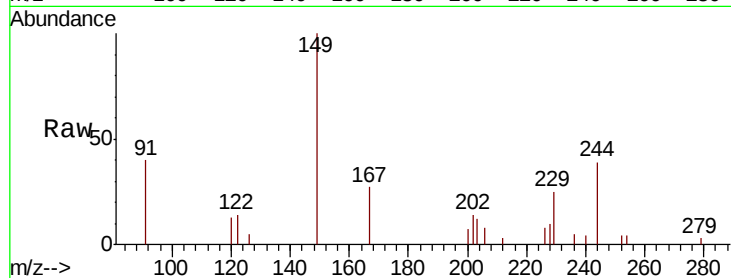
ClientSampleId :

EXT-009-SW140-062019DL

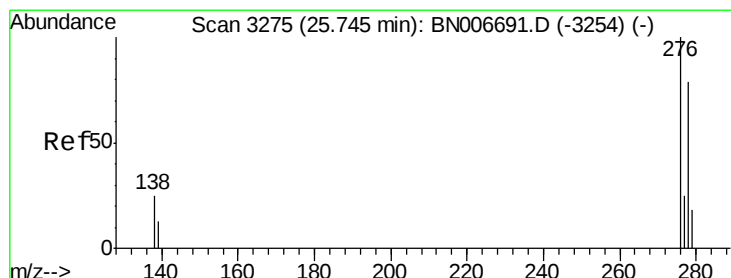
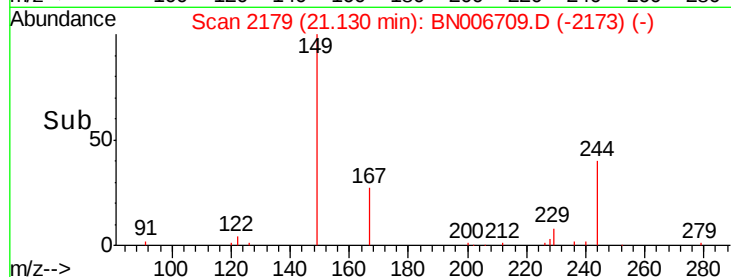
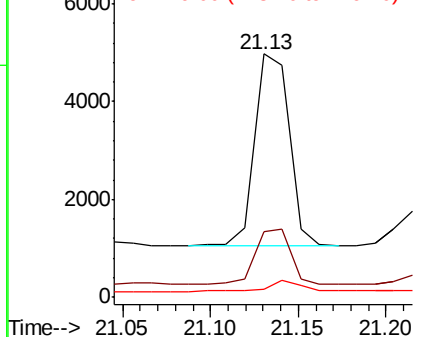
Tot Ion:	149	Resp:	5384
Ion Ratio	Lower	Upper	
149	100		
167	30.3	22.9	34.3
279	5.1	3.2	4.8#

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM



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: 0.598 ng

RT: 25.67 min Scan# 3254

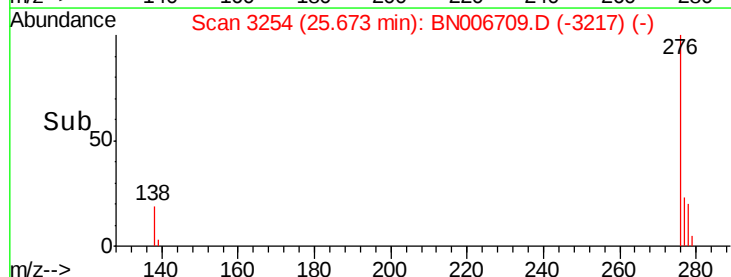
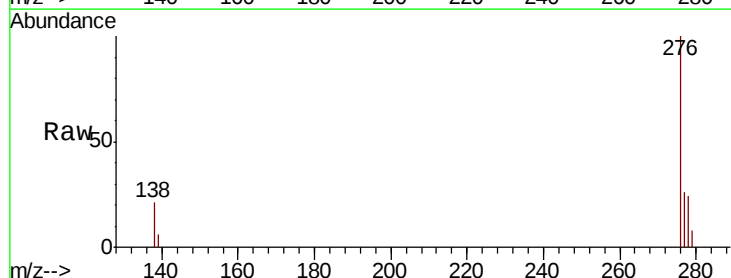
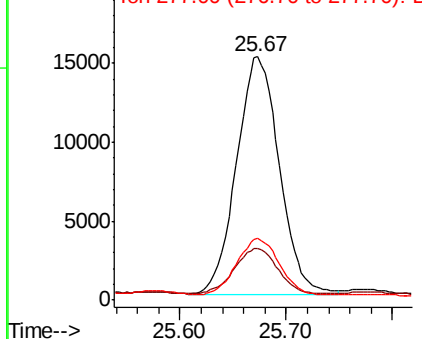
Delta R.T. -0.07 min

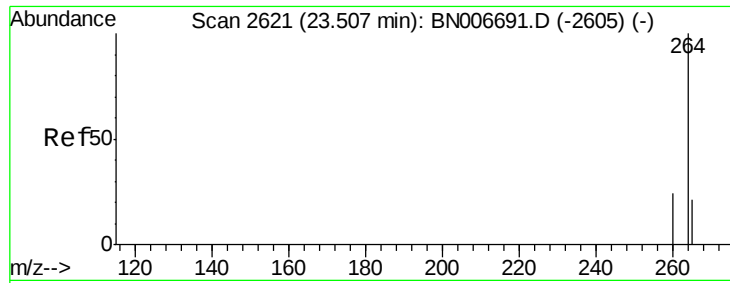
Lab File: BN006709.D

Acq: 05 Jul 2019 11:22

Tgt Ion:	276	Resp:	41993
Ion Ratio	Lower	Upper	
276	100		
138	19.1	19.5	29.3#
277	23.6	19.7	29.5

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





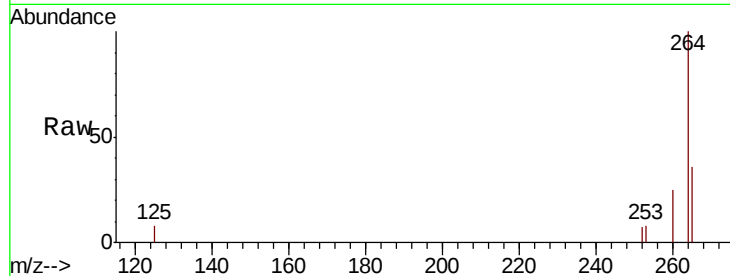
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.45 min Scan# 2605
Delta R.T. -0.05 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.2	30.2
265	36.0	33.7	50.5

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM

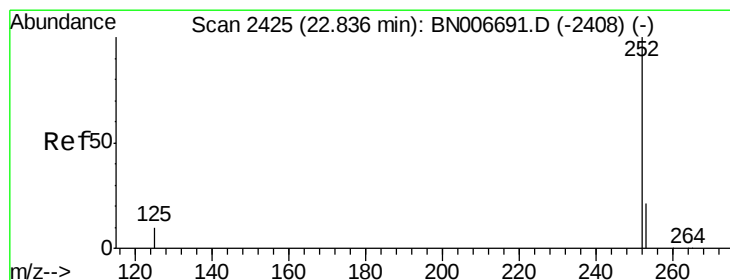
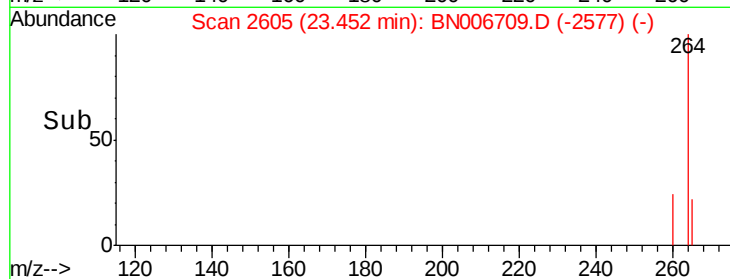
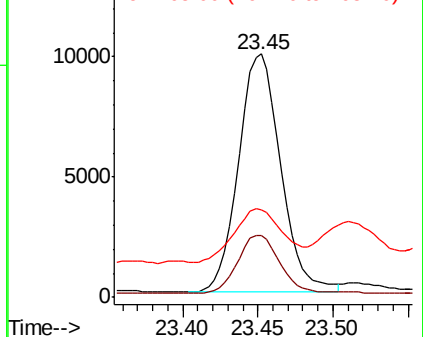


Abundance

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: 1.319 ng
RT: 22.79 min Scan# 2412
Delta R.T. -0.04 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

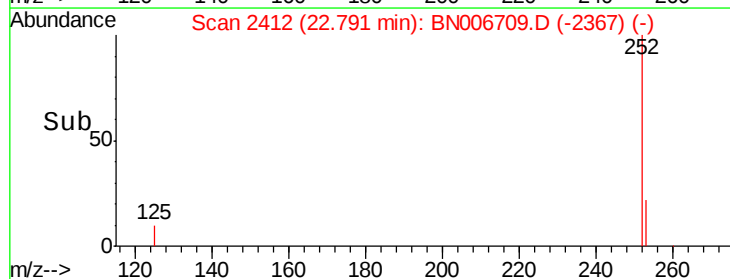
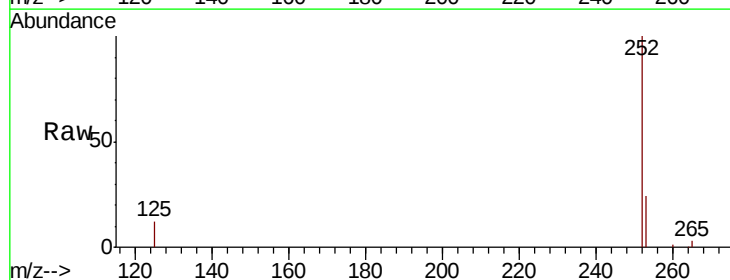
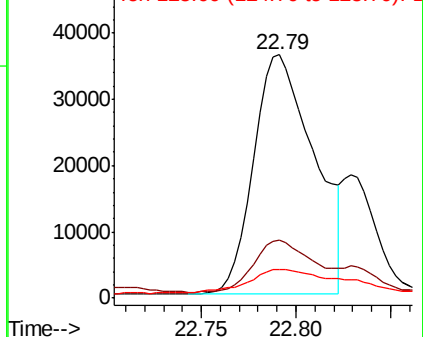
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	20.2	30.2
125	11.7	11.5	17.3

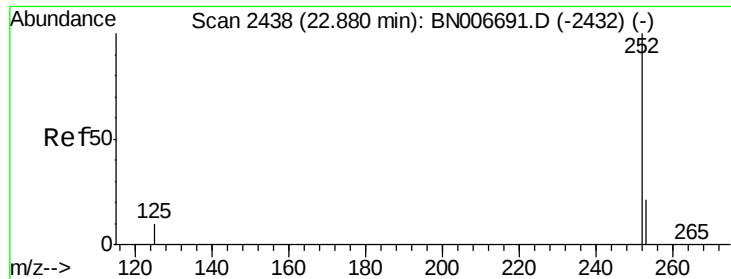
Abundance

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





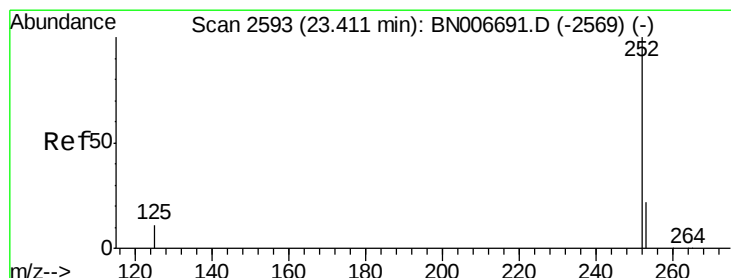
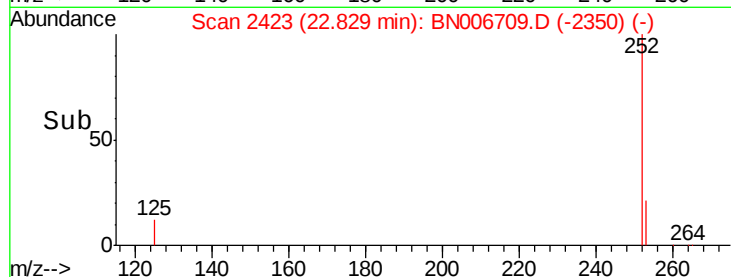
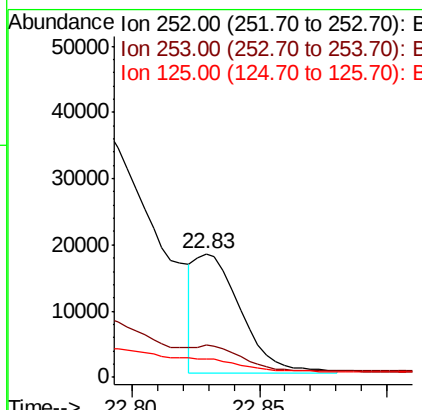
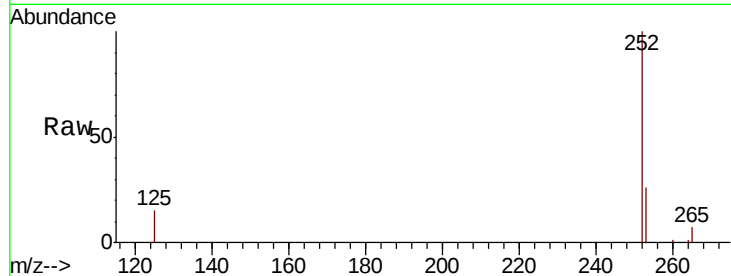
#36
Benzo(k)fluoranthene
Concen: 0.342 ng m
RT: 22.83 min Scan# 2423
Delta R.T. -0.05 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.8	20.1	30.1
125	15.2	11.4	17.0

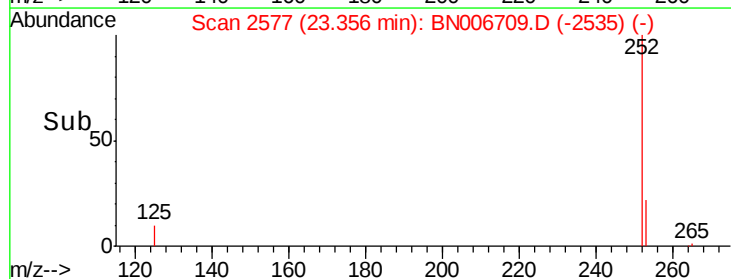
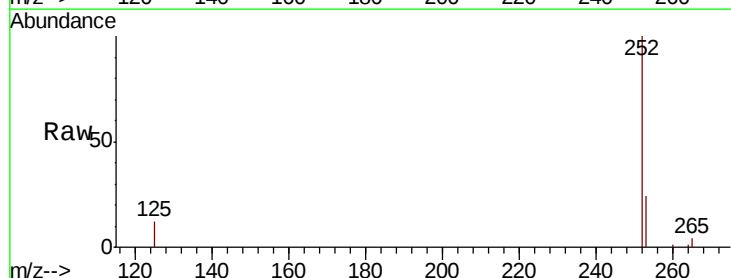
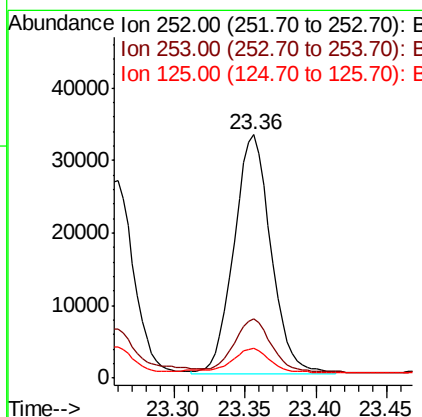
Manual Integrations
APPROVED

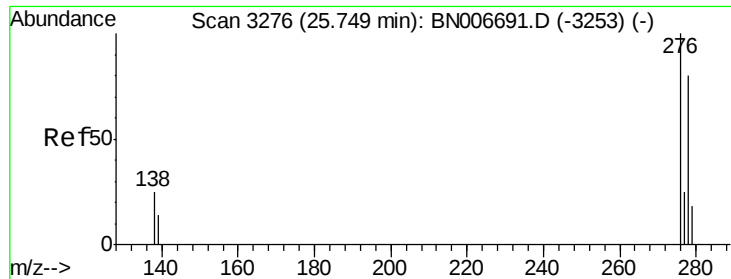
mohammad
7/6/2019 12:14:23 AM



#37
Benzo(a)pyrene
Concen: 1.018 ng m
RT: 23.36 min Scan# 2577
Delta R.T. -0.05 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	21.4	32.2
125	12.0	13.3	19.9#





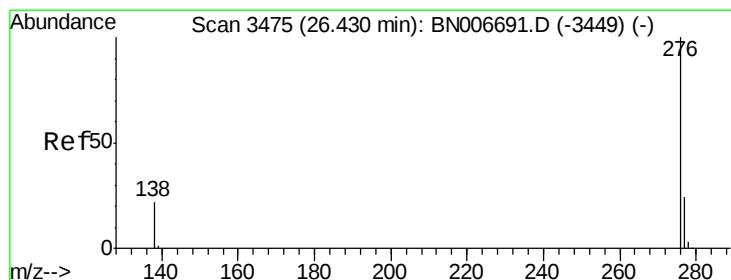
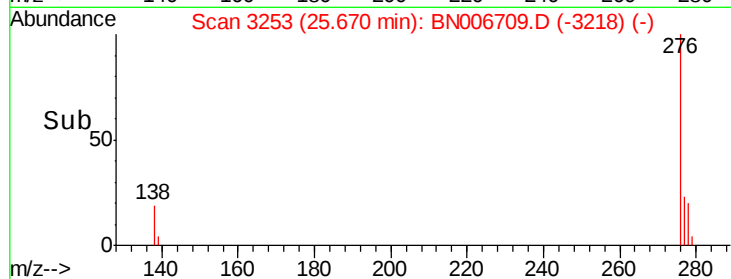
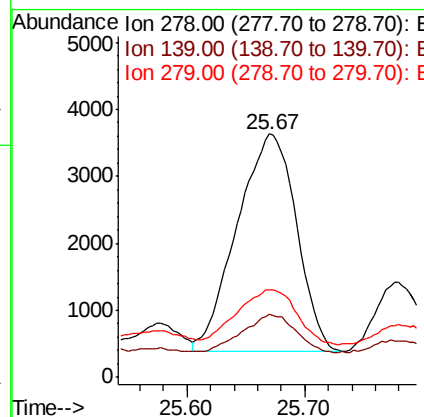
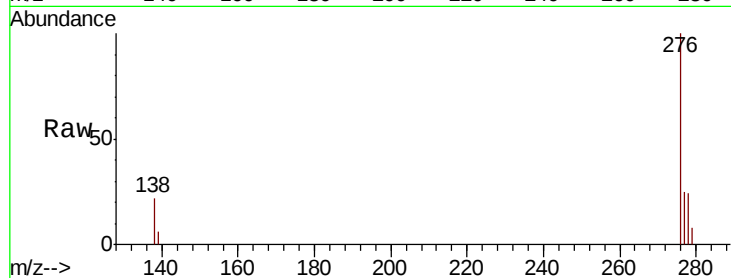
#38
Dibenzo(a,h)anthracene
Concen: 0.194 ng
RT: 25.67 min Scan# 3253
Delta R.T. -0.08 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW140-062019DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.9	16.2	24.4#
279	35.9	20.7	31.1#

Manual Integrations
APPROVED

mohammad
7/6/2019 12:14:23 AM



#39
Benzo(g,h,i)perylene
Concen: 0.791 ng
RT: 26.35 min Scan# 3452
Delta R.T. -0.08 min
Lab File: BN006709.D
Acq: 05 Jul 2019 11:22

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.6	30.8
138	21.4	19.7	29.5

