

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020819\
 Data File : BF112472.D
 Acq On : 8 Feb 2019 20:58
 Operator : JU/SJ
 Sample : K1401-03DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200028DL

Manual Integrations
 APPROVED

Sohil
 2/11/2019 10:00:44 AM

Quant Time: Feb 09 06:01:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	134187	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	515594	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	239945	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	380081	20.00	ng	0.00
76) Chrysene-d12	14.00	240	270984	20.00	ng	0.00
87) Perylene-d12	15.47	264	293402	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	155349	24.59	ng	-0.01
7) Phenol-d6	6.48	99	208565	23.76	ng	-0.01
23) Nitrobenzene-d5	7.39	82	124561	13.92	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	39041	13.98	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	246303	14.52	ng	-0.02
79) Terphenyl-d14	12.94	244	178075	12.38	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.13	128	605597	25.117	ng	98
37) 2-Methylnaphthalene	8.83	142	187249	11.344	ng	96
38) 1-Methylnaphthalene	8.93	142	116251	7.348	ng	96
46) 1,1'-Biphenyl	9.29	154	61552	2.934	ng	98
52) Acenaphthene	9.90	154	221098	15.523	ng	98
55) Dibenzofuran	10.07	168	252377	11.595	ng	93
58) Fluorene	10.42	166	262316	16.105	ng	98
71) Phenanthrene	11.39	178	921788	46.649	ng	99
72) Anthracene	11.44	178	183480	9.322	ng	99
73) Carbazole	11.60	167	88277	4.547	ng	# 89
75) Fluoranthene	12.58	202	1002117	47.284	ng	100
78) Pyrene	12.81	202	775435	41.331	ng	99
81) Benzo(a)anthracene	13.99	228	168435	10.574	ng	98
83) Chrysene	14.03	228	214951	14.136	ng	97
86) Indeno(1,2,3-cd)pyrene	16.96	276	36304	3.013	ng	98
88) Benzo(b)fluoranthene	15.05	252	182490m	10.400	ng	
89) Benzo(k)fluoranthene	15.07	252	69240m	4.120	ng	
90) Benzo(a)pyrene	15.42	252	91365	5.787	ng	99
92) Benzo(a,h,i)perylene	17.42	276	25955	2.162	ng	96

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

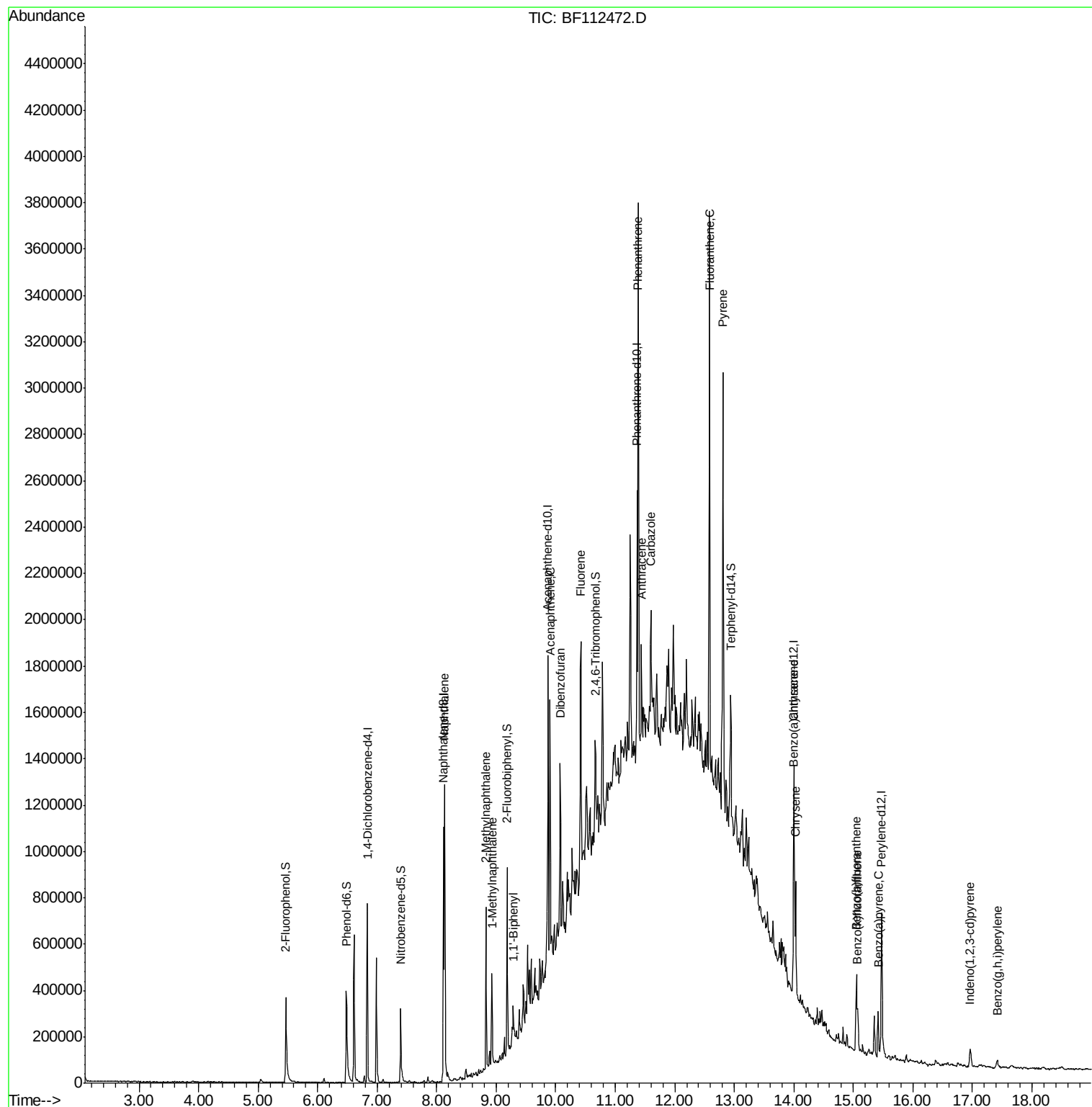
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020819\
Data File : BF112472.D
Acq On : 8 Feb 2019 20:58
Operator : JU/SJ
Sample : K1401-03DL 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

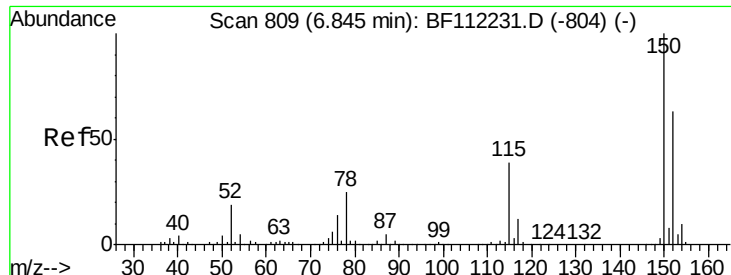
Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM

Quant Time: Feb 09 06:01:32 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 28 10:38:18 2019
Response via : Initial Calibration





#1

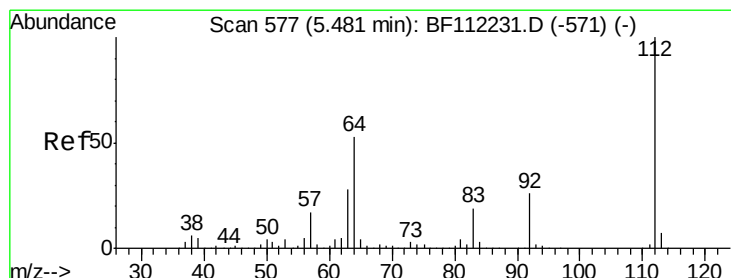
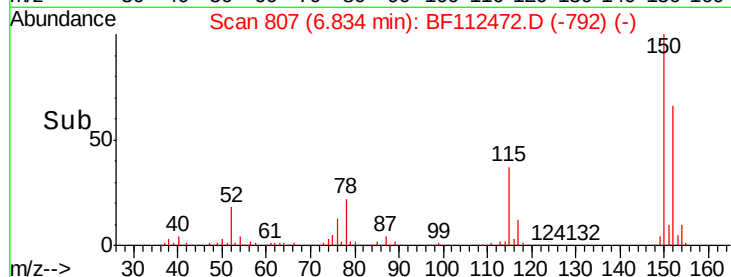
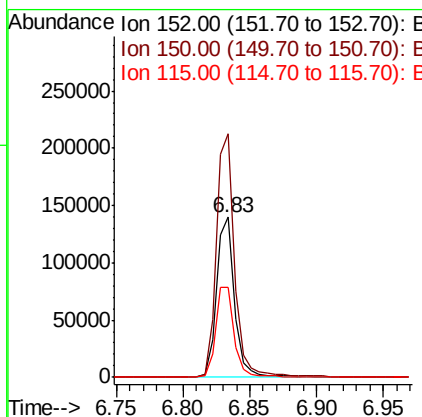
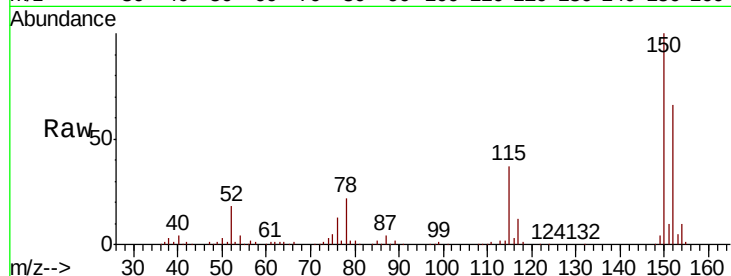
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.2	127.4	191.0
115	55.9	45.5	68.3

Manual Integrations
APPROVED

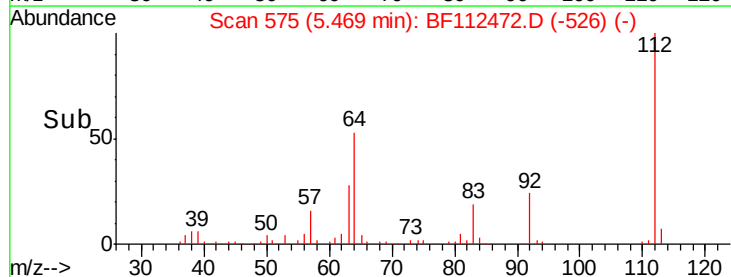
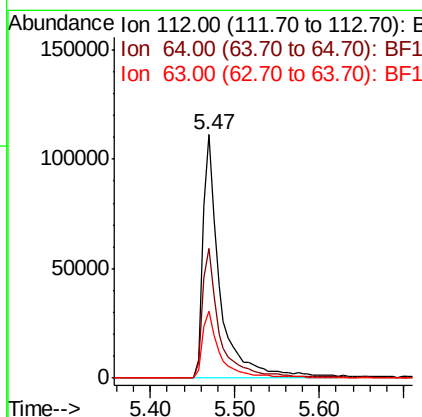
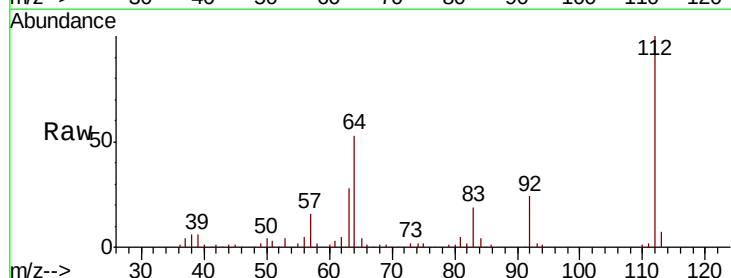
Sohil
2/11/2019 10:00:44 AM

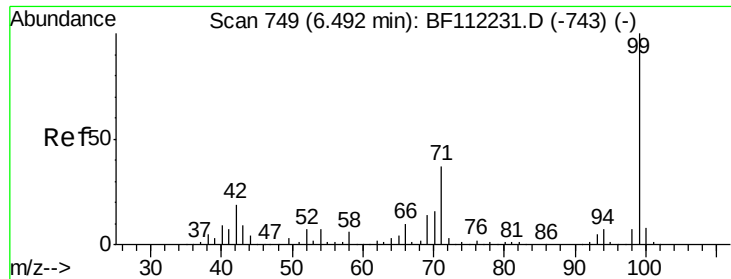


#5

2-Fluorophenol
Concen: 24.590 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	45.7	68.5
63	27.7	23.6	35.4





#7

Phenol-d6

Concen: 23.759 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Instrument :

BNA_F

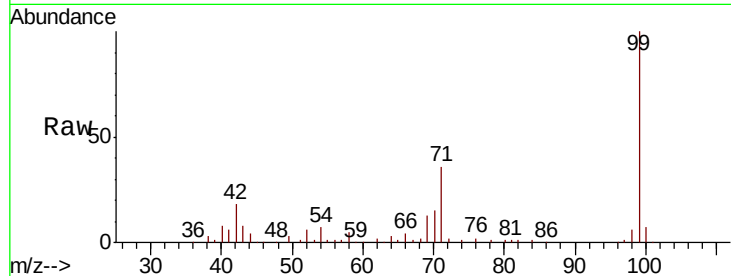
ClientSampleId :

RBR-200028DL

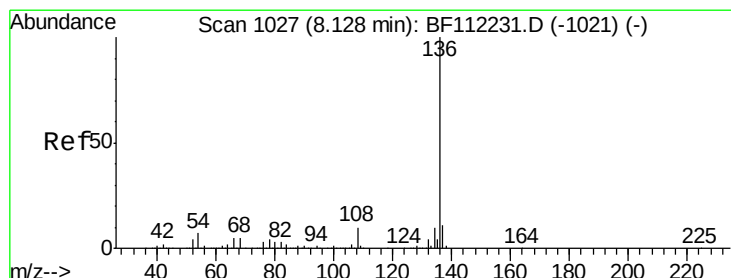
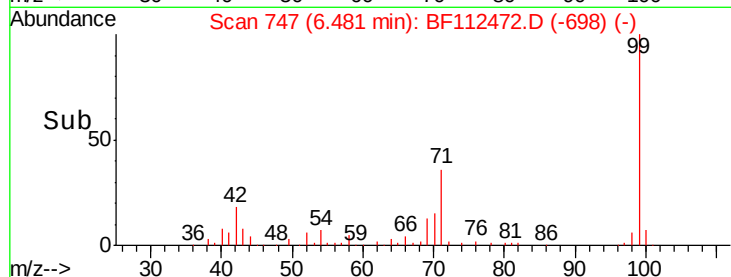
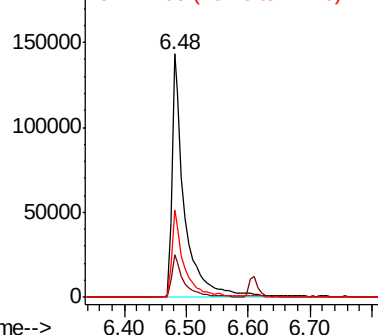
Tot Ion:	99	Resp:	208565
Ion Ratio	Lower	Upper	
99	100		
42	17.7	15.1	22.7
71	36.0	26.9	40.3

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

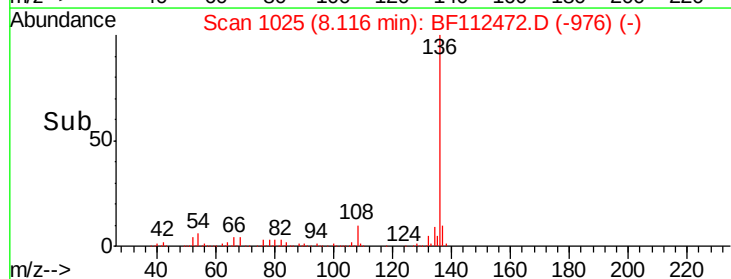
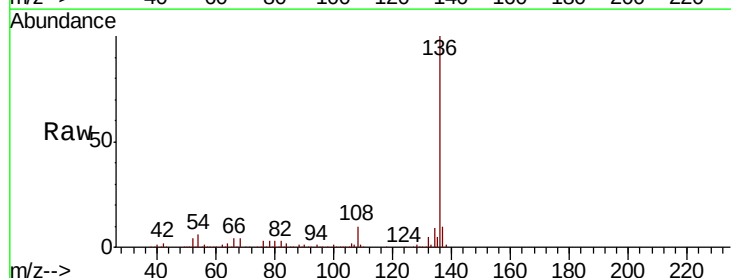
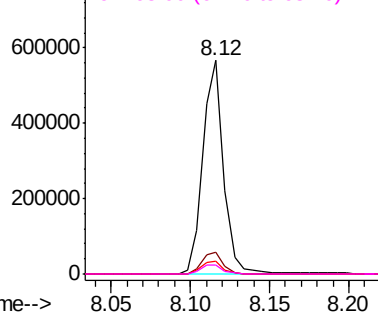
Delta R.T. -0.01 min

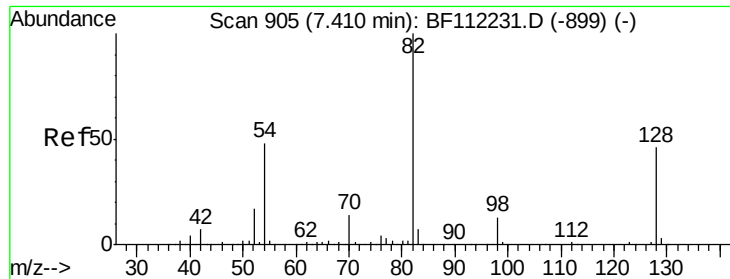
Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Tgt Ion:	136	Resp:	515594
Ion Ratio	Lower	Upper	
136	100		
137	10.4	9.1	13.7
54	5.8	5.9	8.9#
68	4.3	5.1	7.7#

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





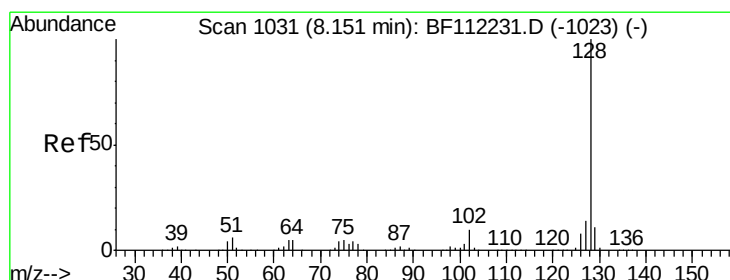
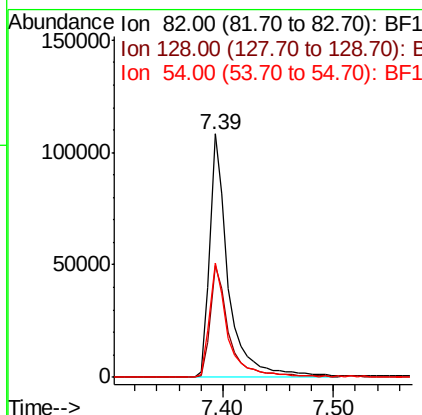
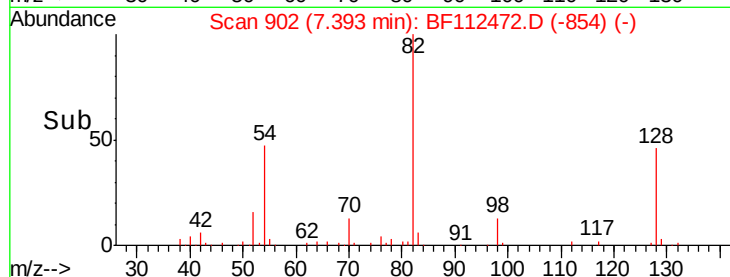
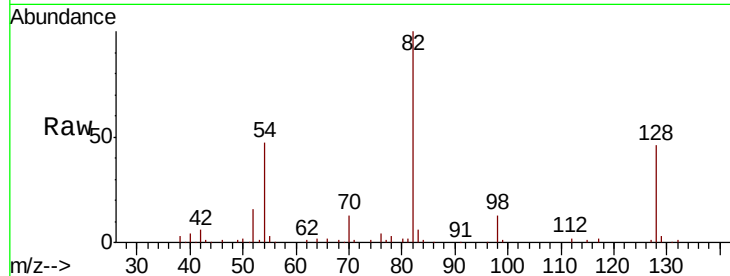
#23
Nitrobenzene-d5
Concen: 13.920 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.02 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.8	56.8
54	47.1	39.7	59.5

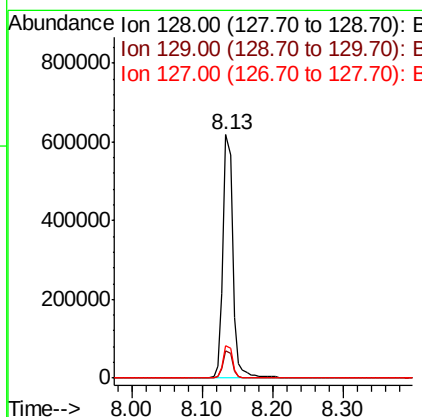
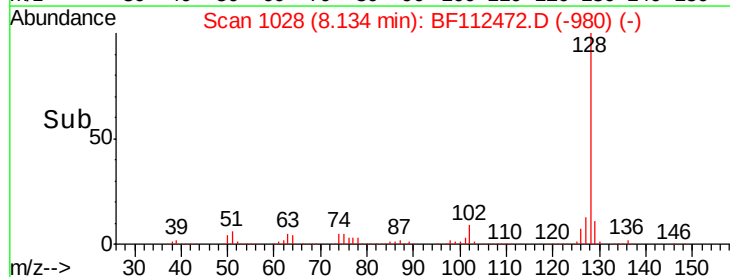
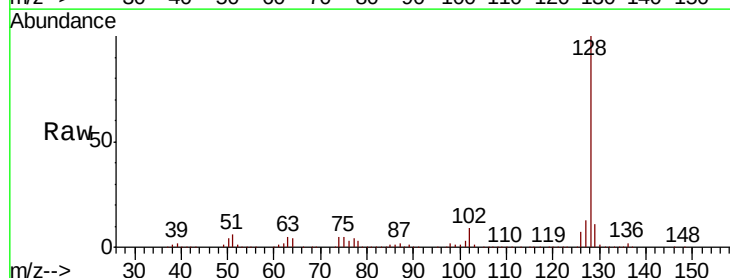
Manual Integrations
APPROVED

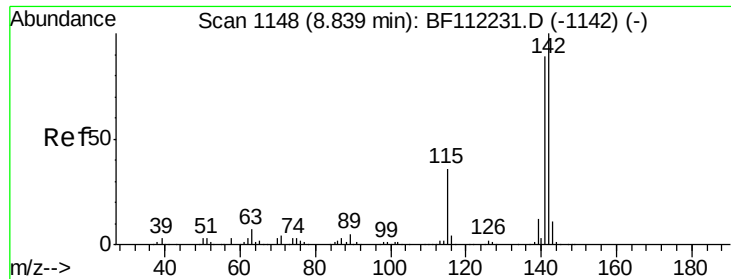
Sohil
2/11/2019 10:00:44 AM



#31
Naphthalene
Concen: 25.117 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.02 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.6	14.4
127	13.4	11.1	16.7





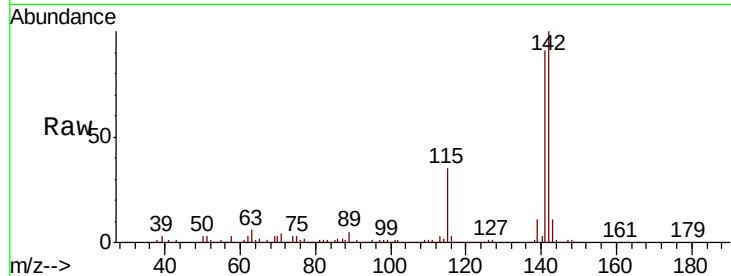
#37
2-Methylnaphthalene
Concen: 11.344 ng
RT: 8.83 min Scan# 1146
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.3	70.9	106.3
115	34.6	24.9	37.3

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM

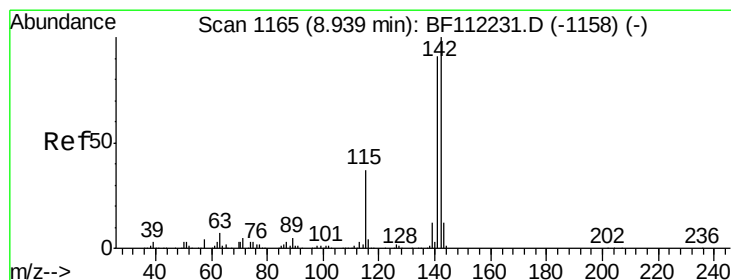
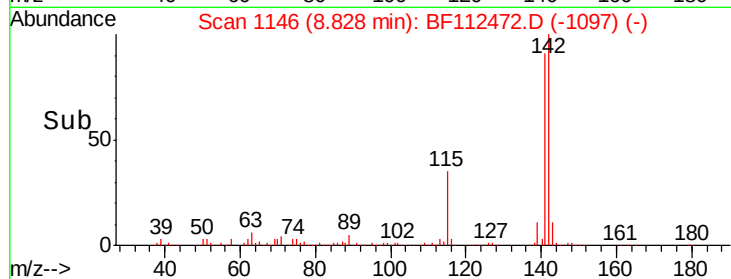
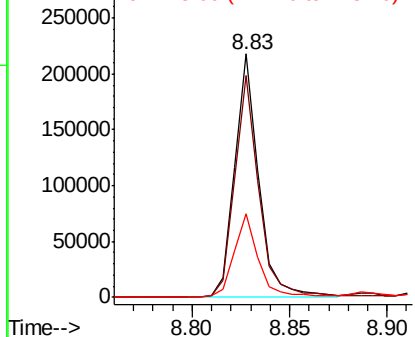


Abundance

Ion 142.00 (141.70 to 142.70): E

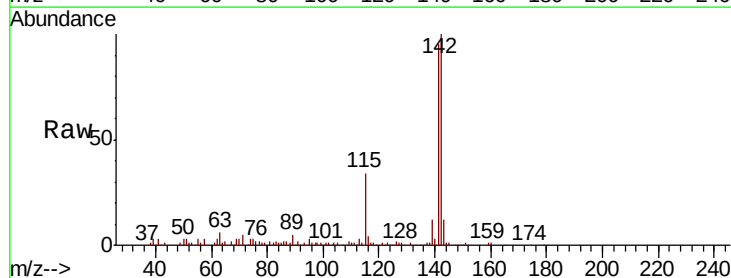
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 7.348 ng
RT: 8.93 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.5	72.6	108.8
116	3.6	2.8	4.2

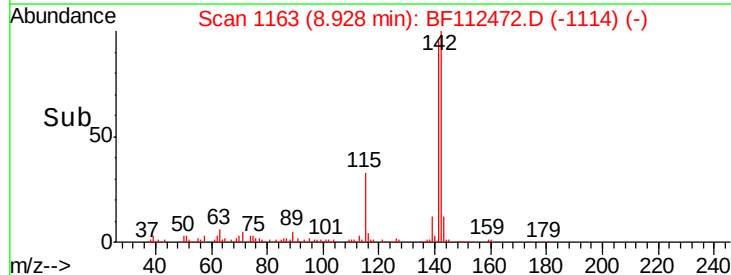
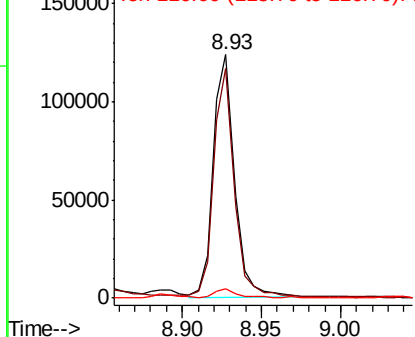


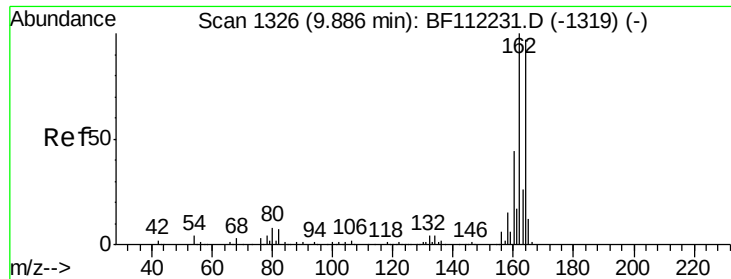
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





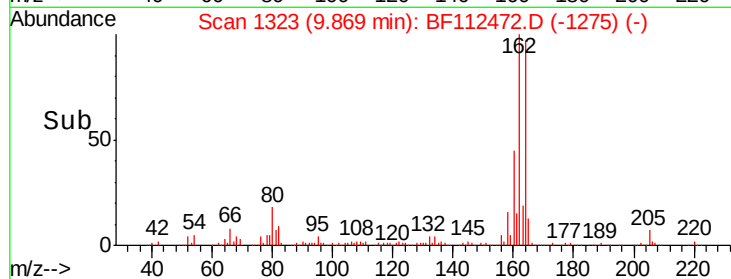
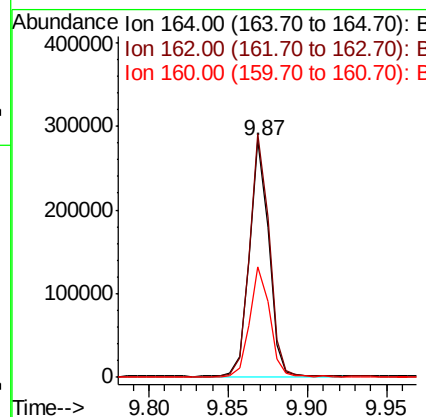
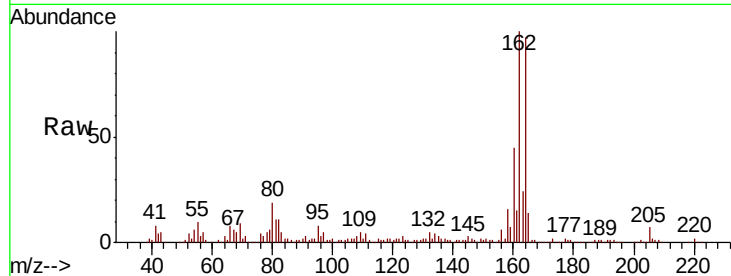
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.7	82.2	123.4	
160	46.6	36.2	54.4	

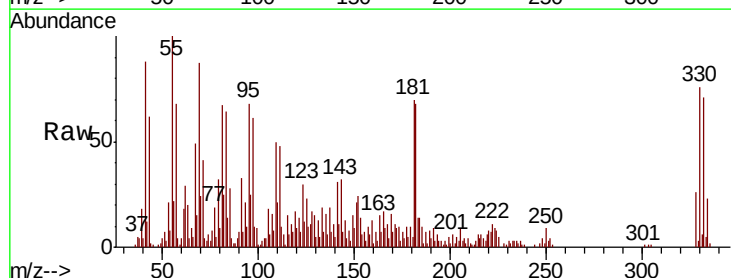
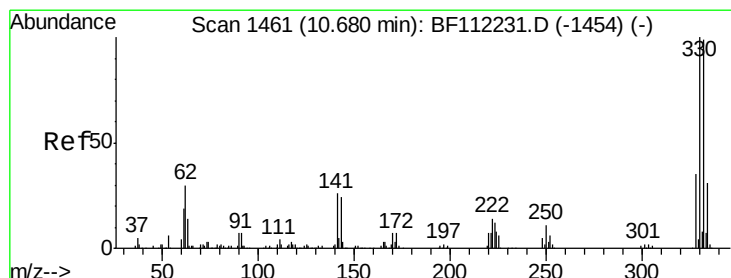
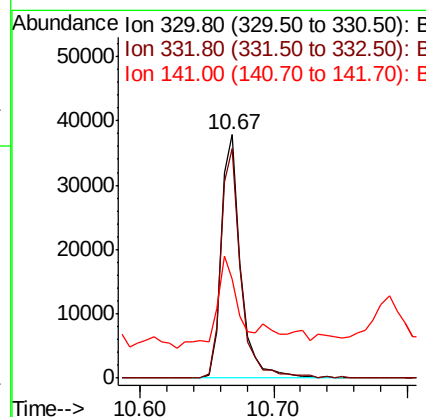
Manual Integrations
APPROVED

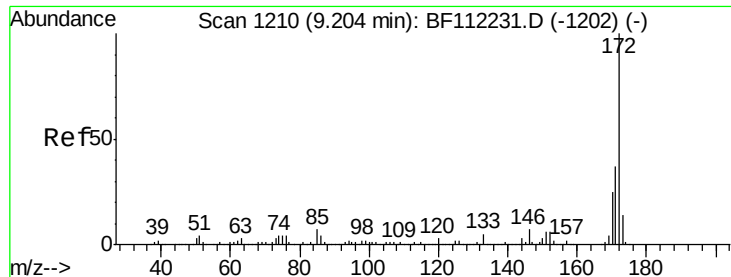
Sohil
2/11/2019 10:00:44 AM



#42
2,4,6-Tribromophenol
Concen: 13.979 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	76.6	114.8	
141	41.1	24.3	36.5	





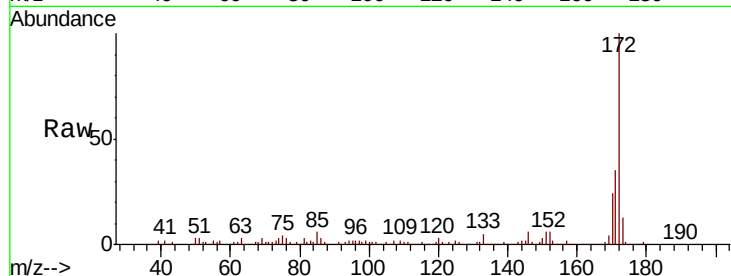
#45
2-Fluorobiphenyl
Concen: 14.518 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.02 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	246303		
171	35.2		30.5	45.7
170	23.6		20.2	30.4

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM

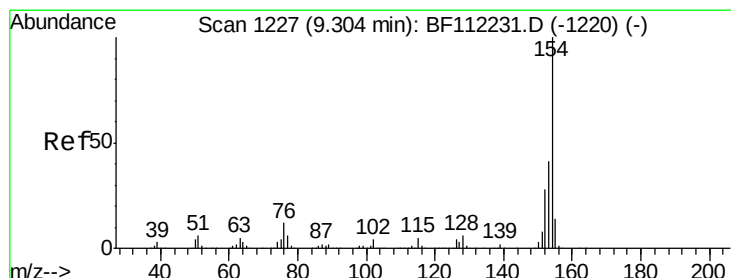
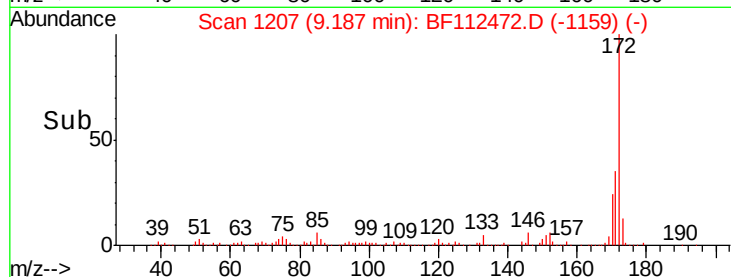
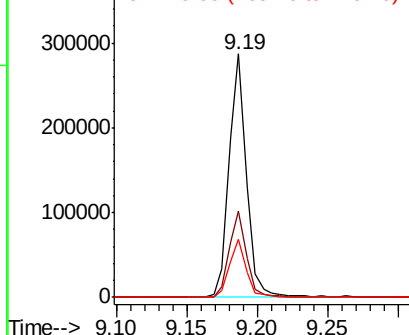


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#46
1,1'-Biphenyl
Concen: 2.934 ng
RT: 9.29 min Scan# 1224
Delta R.T. -0.02 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

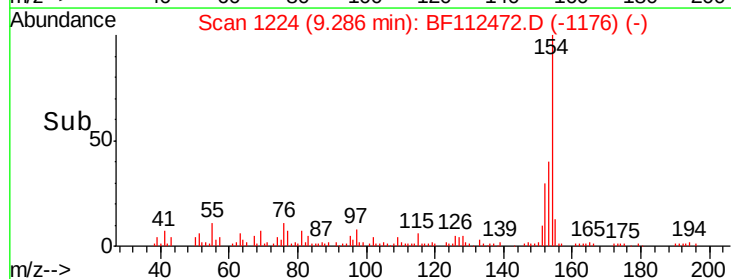
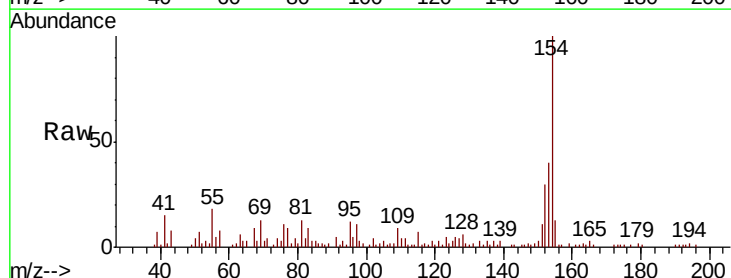
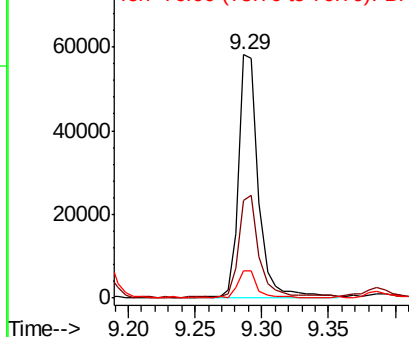
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	61552		
153	40.4		21.5	61.5
76	11.3		0.0	33.1

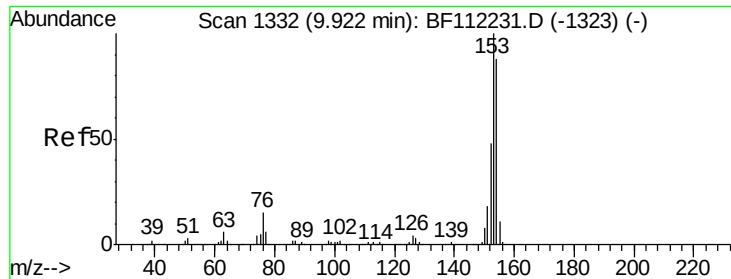
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





#52

Acenaphthene

Concen: 15.523 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Instrument :

BNA_F

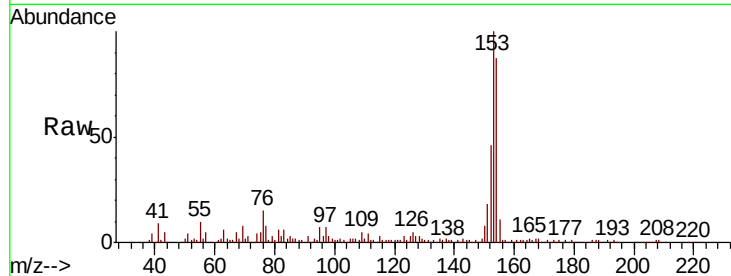
ClientSampleId :

RBR-200028DL

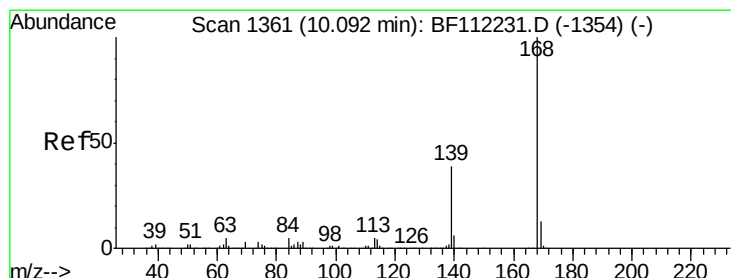
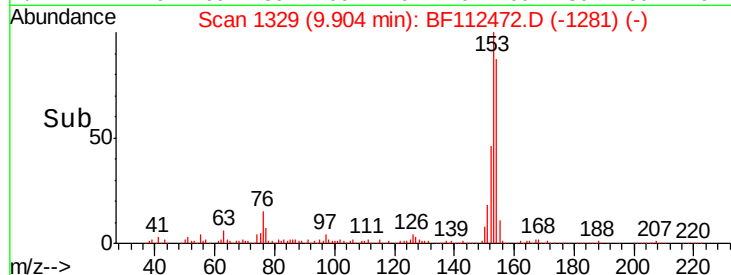
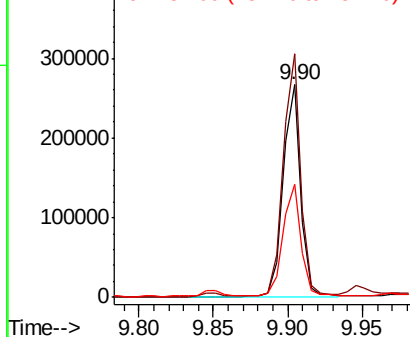
Tot Ion:	154	Resp:	221098
Ion Ratio	Lower	Upper	
154	100		
153	114.4	89.8	134.6
152	53.2	43.5	65.3

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 11.595 ng

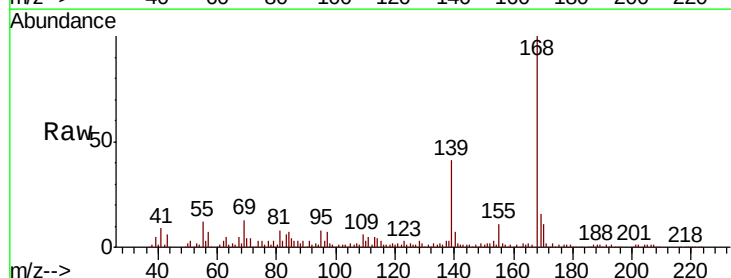
RT: 10.07 min Scan# 1358

Delta R.T. -0.02 min

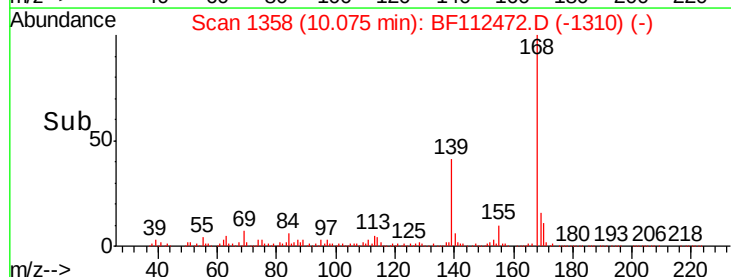
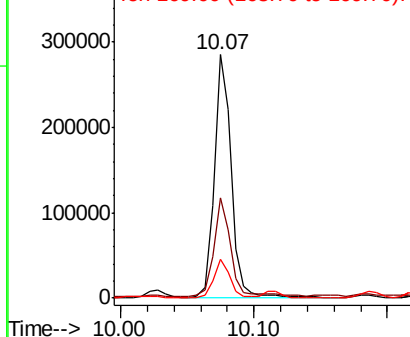
Lab File: BF112472.D

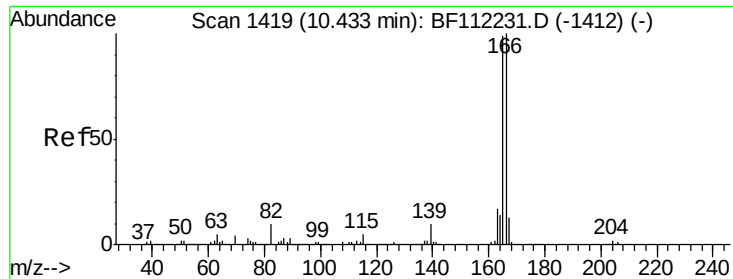
Acq: 8 Feb 2019 20:58

Tgt Ion:	168	Resp:	252377
Ion Ratio	Lower	Upper	
168	100		
139	41.0	29.2	43.8
169	16.0	11.4	17.0



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





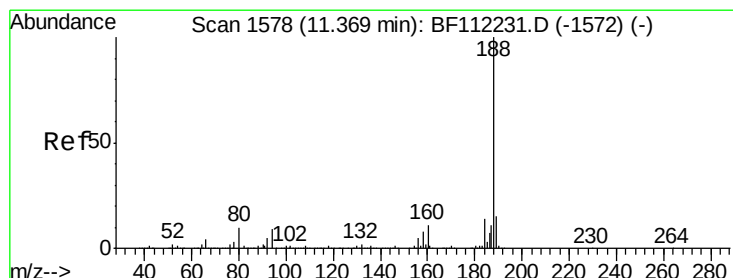
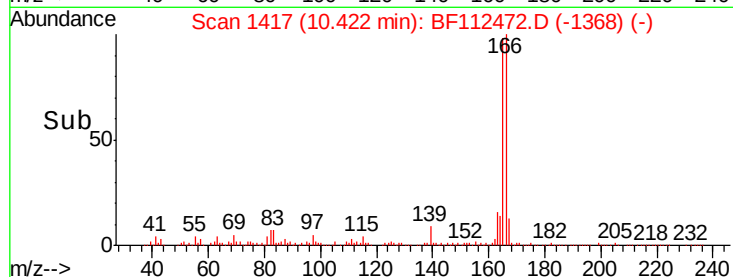
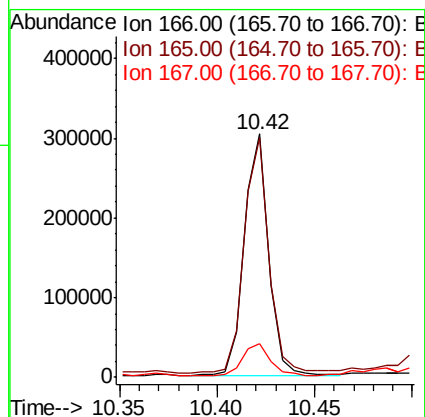
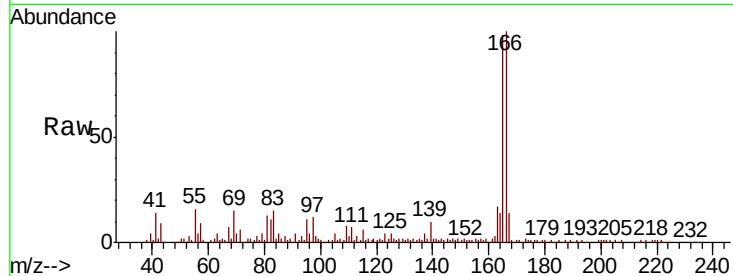
#58
 Fluorene
 Concen: 16.105 ng
 RT: 10.42 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: BF112472.D
 Acq: 8 Feb 2019 20:58

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200028DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	77.1	115.7
167	13.7	11.3	16.9

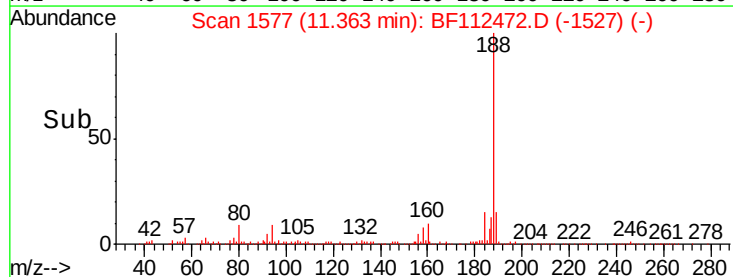
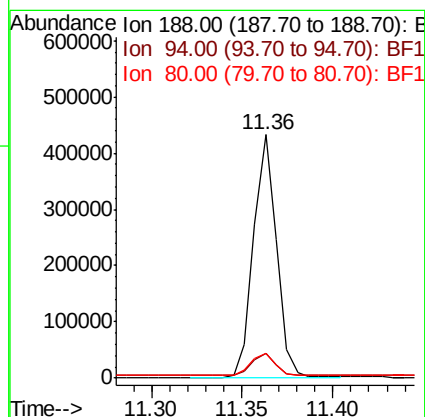
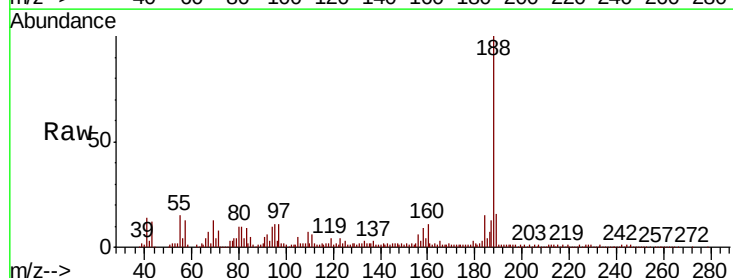
Manual Integrations
 APPROVED

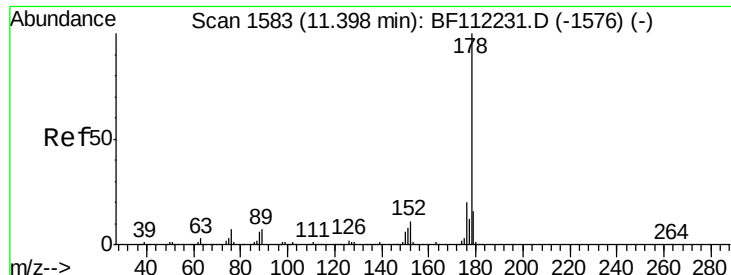
Sohil
 2/11/2019 10:00:44 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF112472.D
 Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.2	12.2
80	10.0	8.9	13.3





#71

Phenanthrene

Concen: 46.649 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Instrument :

BNA_F

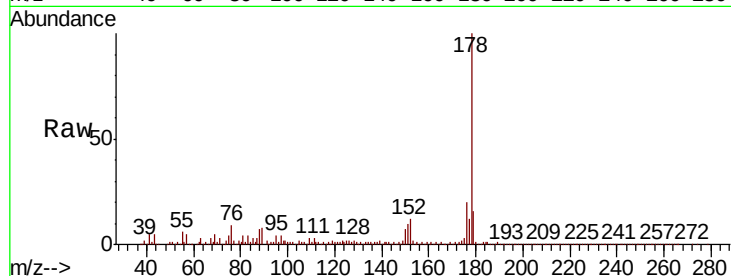
ClientSampled :

RBR-200028DL

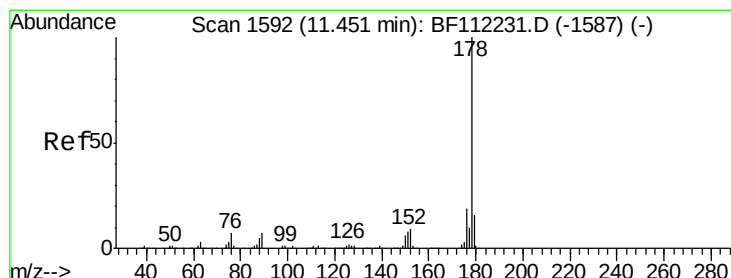
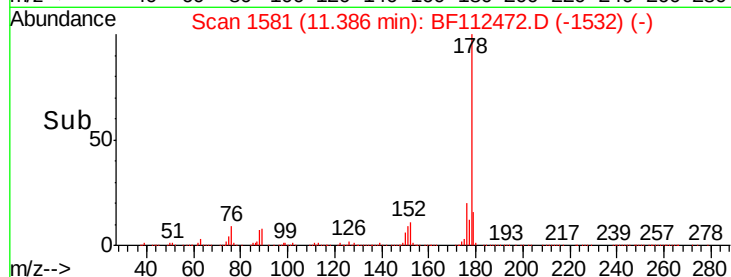
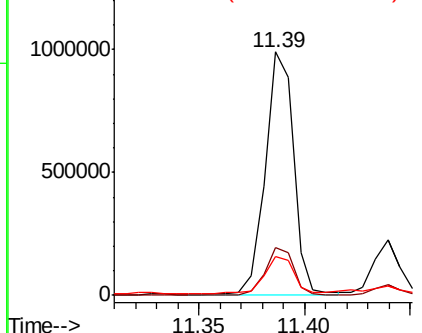
Tot Ion:	178	Resp:	921788
Ion Ratio	Lower	Upper	
178	100		
176	19.7	16.3	24.5
179	16.2	13.0	19.4

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 9.322 ng

RT: 11.44 min Scan# 1590

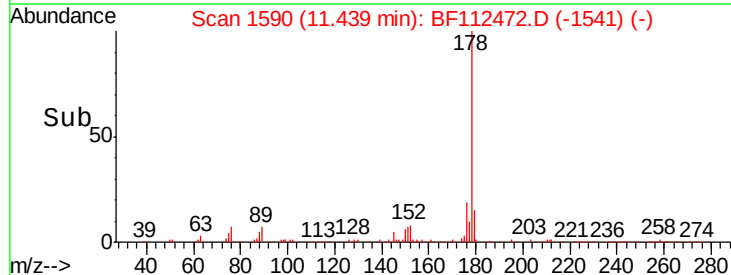
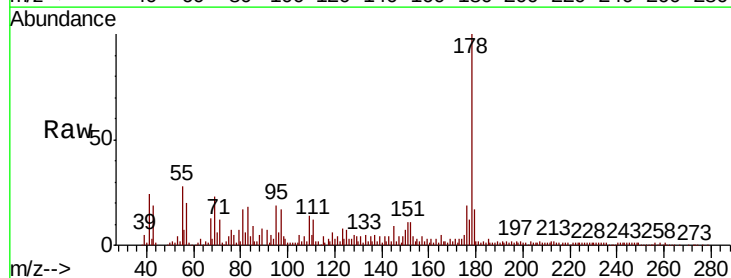
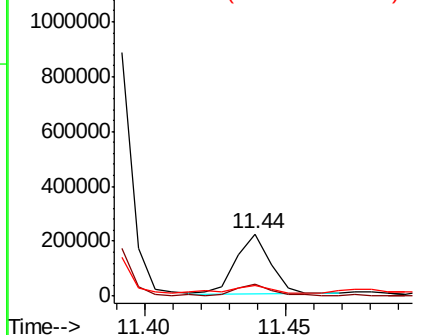
Delta R.T. -0.01 min

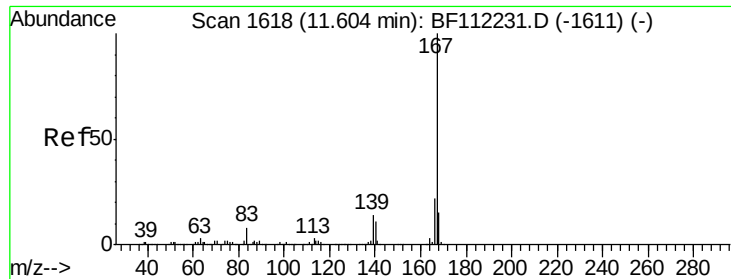
Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Tgt Ion:	178	Resp:	183480
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.5	23.3
179	17.3	12.8	19.2

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





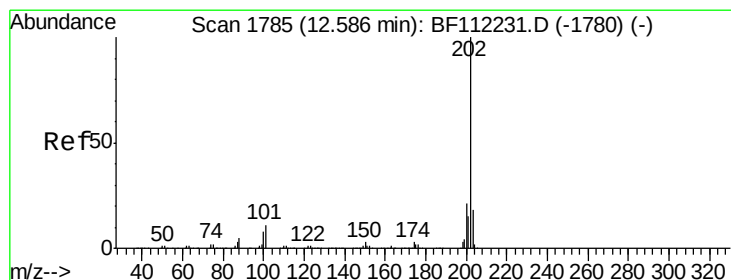
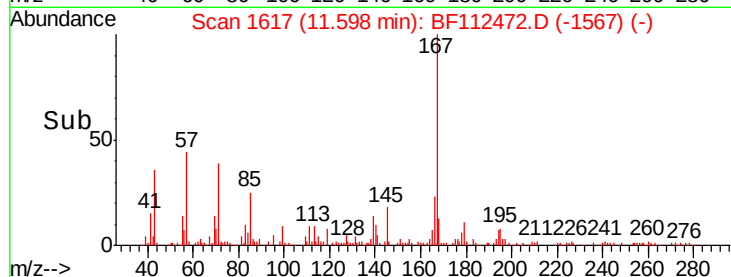
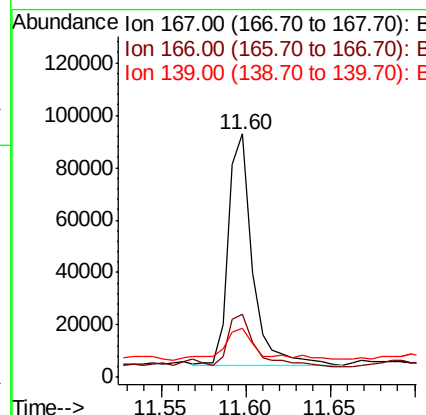
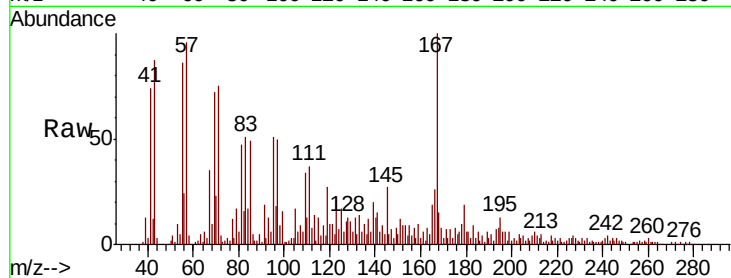
#73
 Carbazole
 Concen: 4.547 ng
 RT: 11.60 min Scan# 1617
 Delta R.T. -0.01 min
 Lab File: BF112472.D
 Acq: 8 Feb 2019 20:58

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200028DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	26.1	17.9	26.9
139	19.9	10.2	15.2

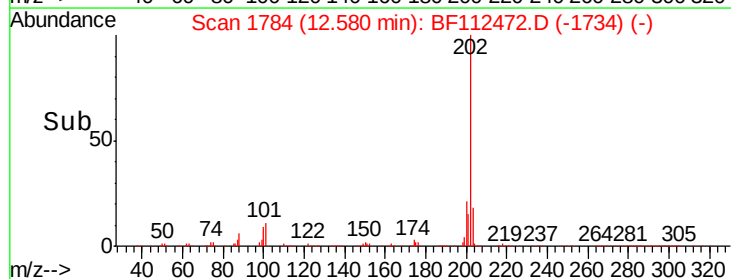
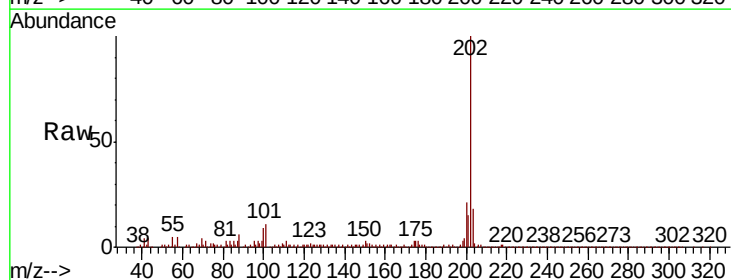
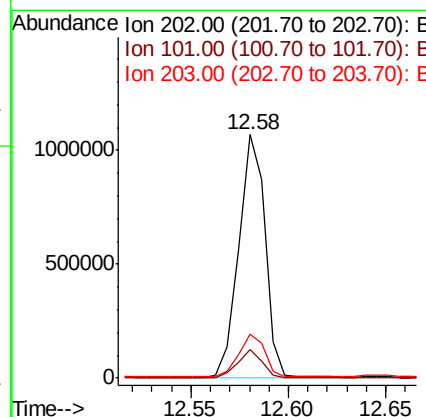
Manual Integrations
 APPROVED

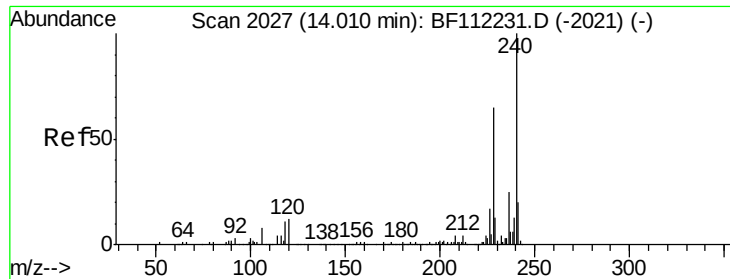
Sohil
 2/11/2019 10:00:44 AM



#75
 Fluoranthene
 Concen: 47.284 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. -0.01 min
 Lab File: BF112472.D
 Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.8
203	18.3	0.0	38.4





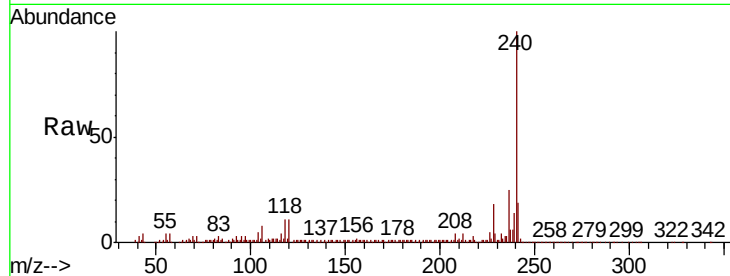
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.6
236	25.3	20.7	31.1

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM

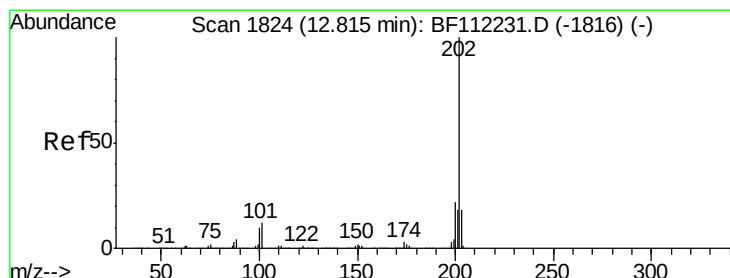
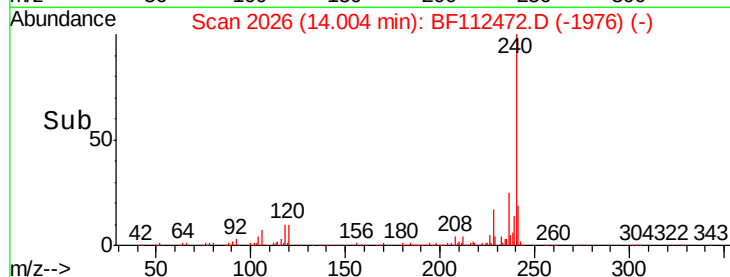
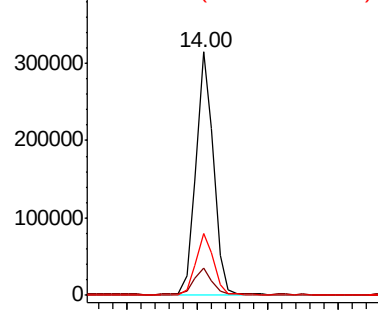


Abundance

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



#78
Pyrene
Concen: 41.331 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

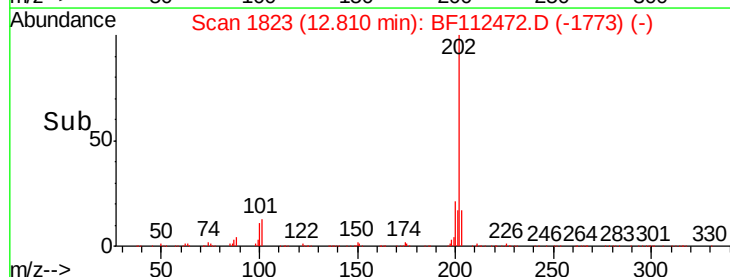
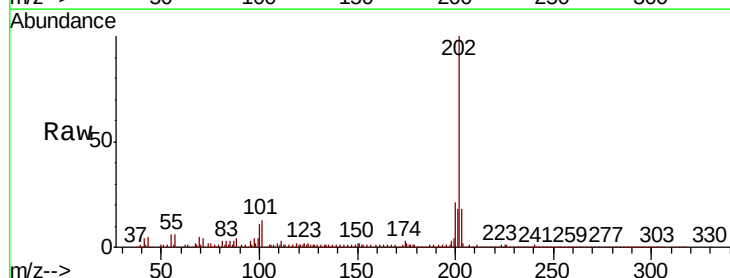
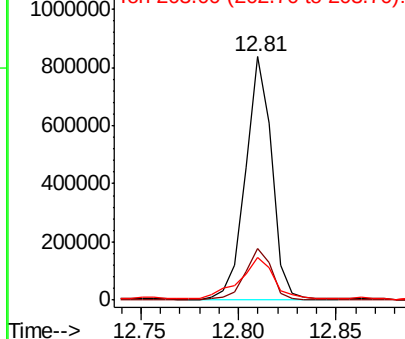
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.7	26.5
203	17.8	14.6	22.0

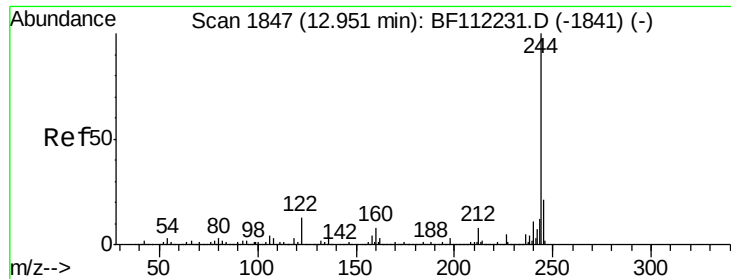
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 12.377 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Instrument :

BNA_F

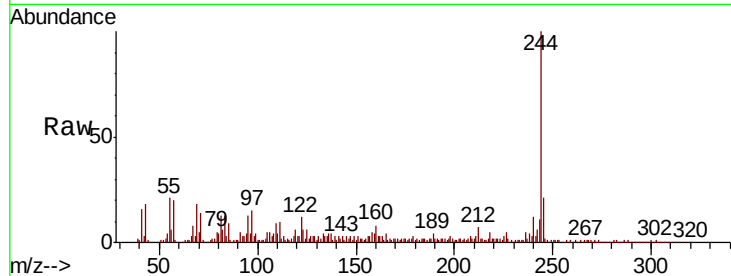
ClientSampleId :

RBR-200028DL

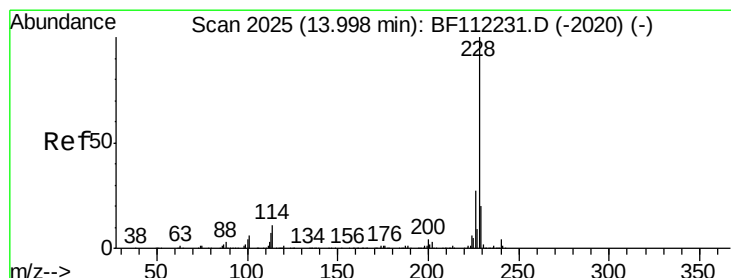
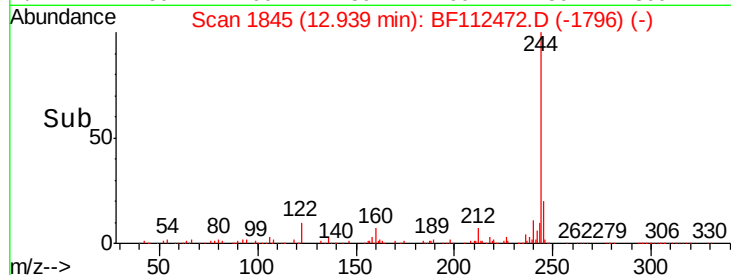
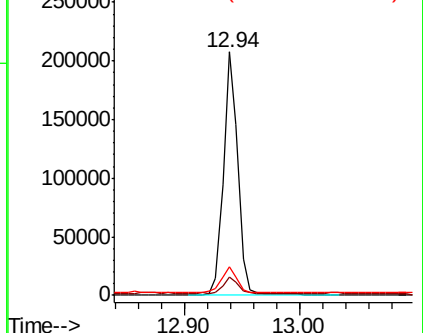
Tot Ion:	244	Resp:	178075
Ion Ratio		Lower	Upper
244	100		
212	7.3	5.9	8.9
122	11.9	9.8	14.6

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM



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



#81

Benzo(a)anthracene

Concen: 10.574 ng

RT: 13.99 min Scan# 2024

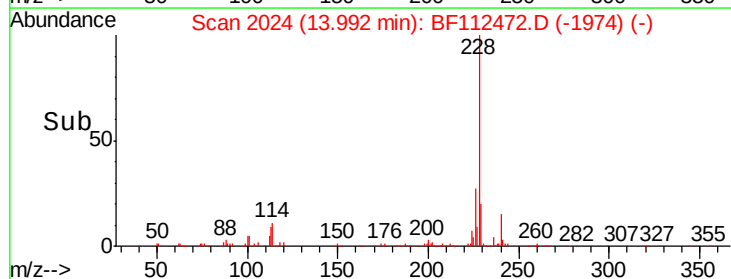
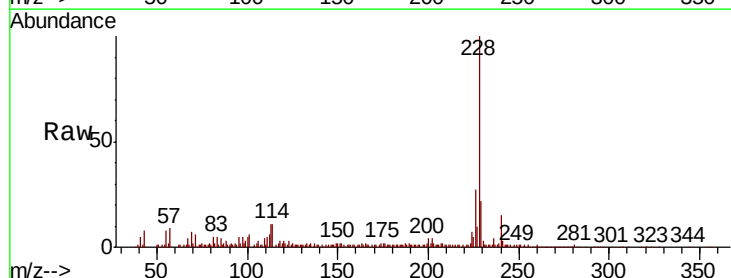
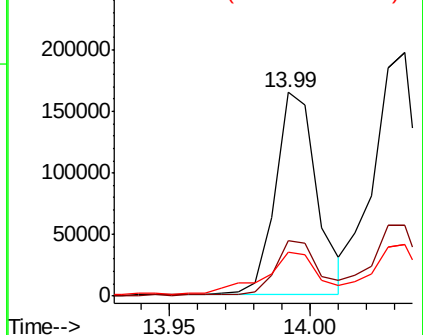
Delta R.T. -0.01 min

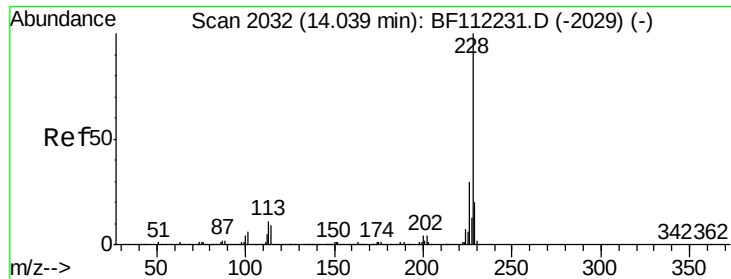
Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Tgt Ion:	228	Resp:	168435
Ion Ratio		Lower	Upper
228	100		
226	27.4	22.6	34.0
229	21.6	16.5	24.7

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





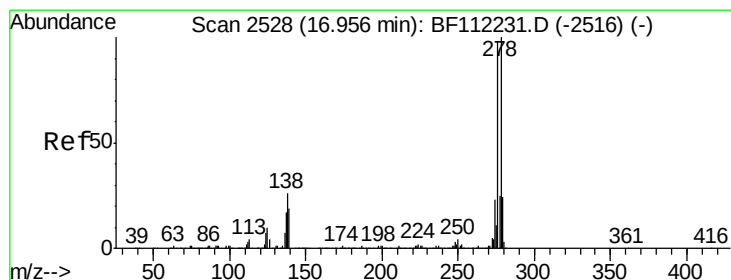
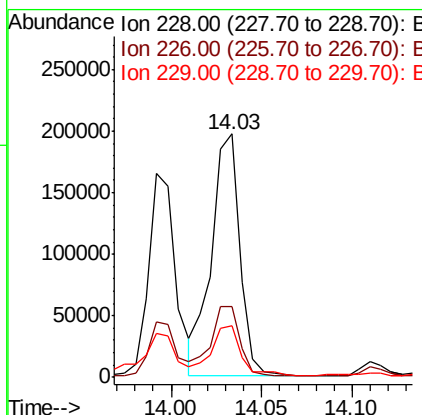
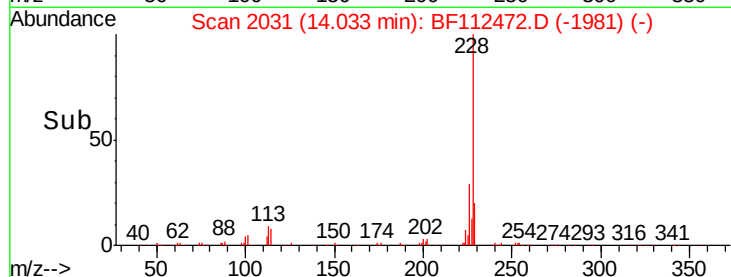
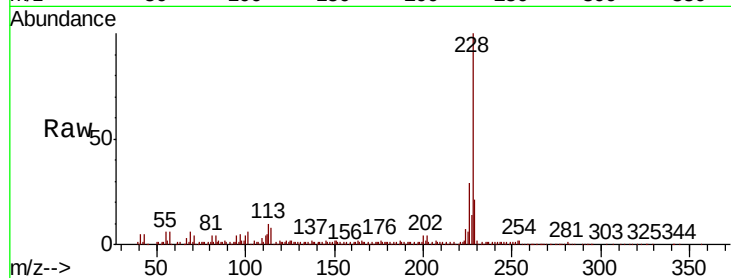
#83
Chrysene
Concen: 14.136 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampled :
RBR-200028DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	25.0	37.6
229	21.3	16.6	24.8

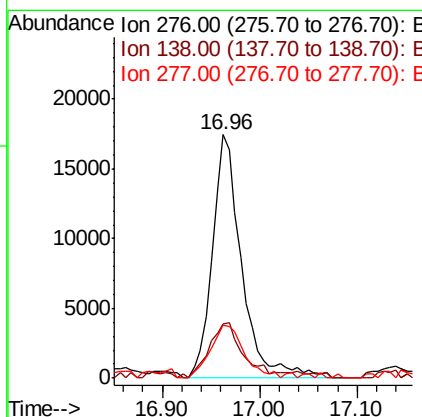
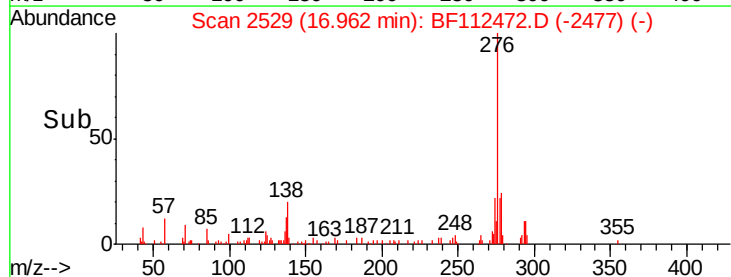
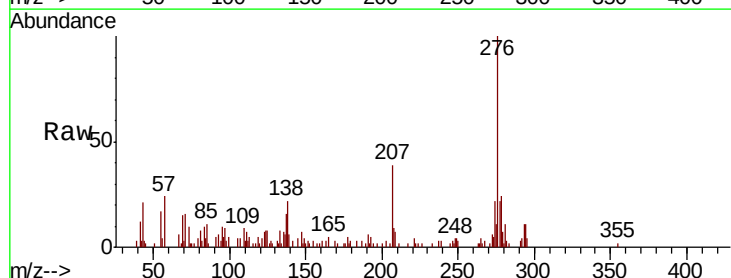
Manual Integrations
APPROVED

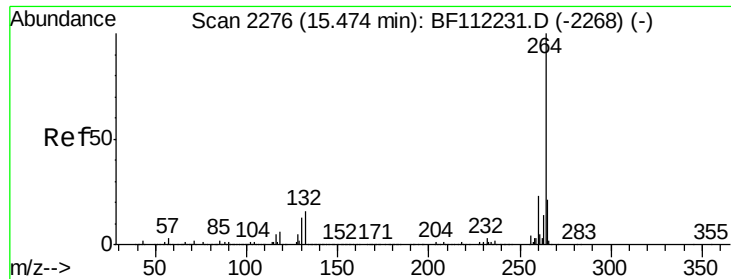
Sohil
2/11/2019 10:00:44 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.013 ng
RT: 16.96 min Scan# 2529
Delta R.T. 0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.4	22.6	34.0
277	24.9	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.00 min

Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Instrument :

BNA_F

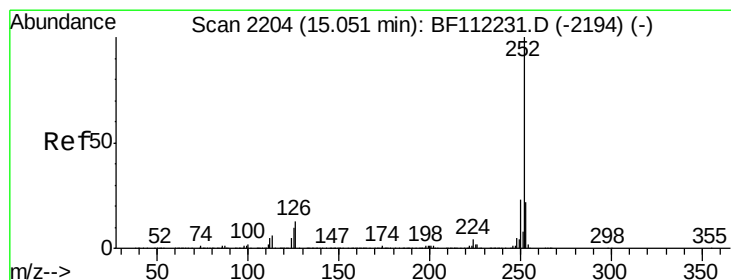
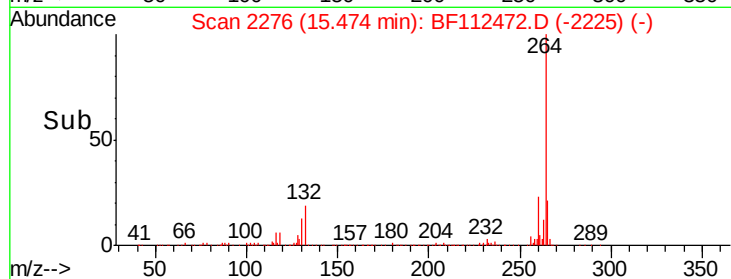
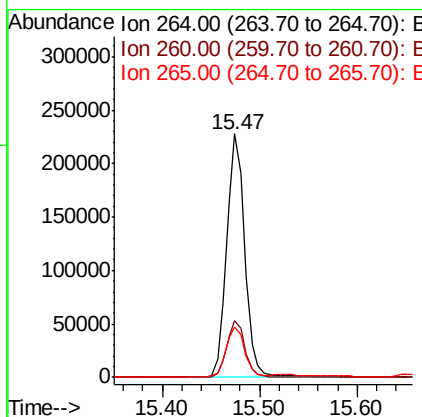
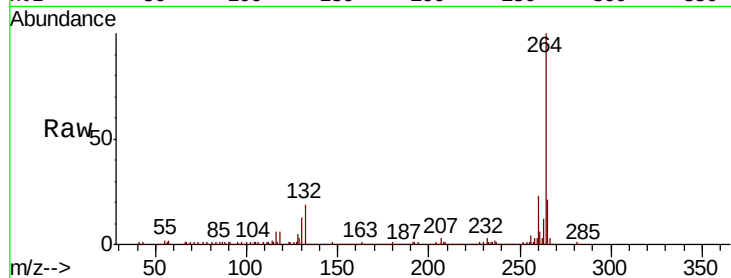
ClientSampleId :

RBR-200028DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.2	27.2
265	20.9	17.0	25.4

Manual Integrations
APPROVED

Sohil
2/11/2019 10:00:44 AM



#88

Benzo(b)fluoranthene

Concen: 10.400 ng m

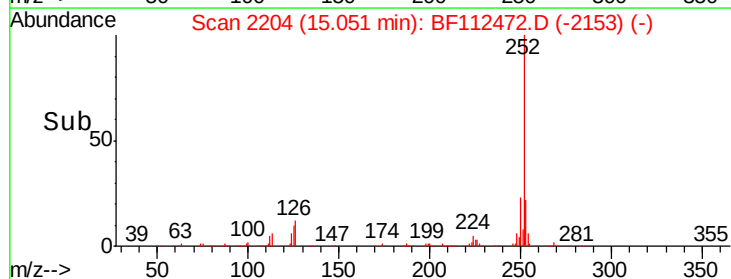
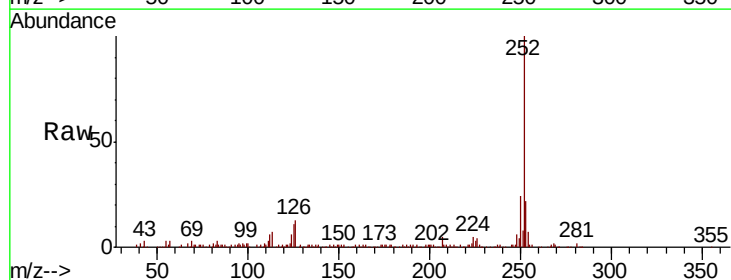
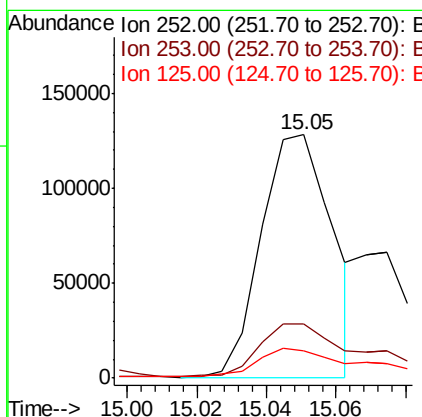
RT: 15.05 min Scan# 2204

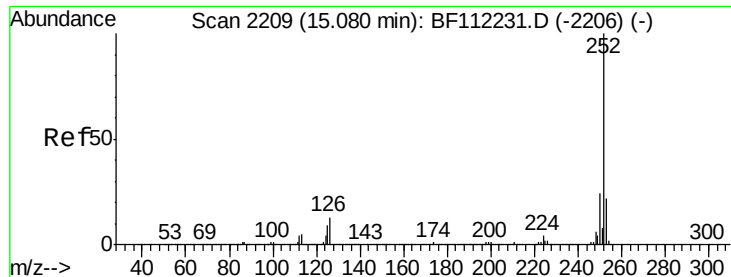
Delta R.T. 0.00 min

Lab File: BF112472.D

Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.0	27.0
125	11.3	8.7	13.1





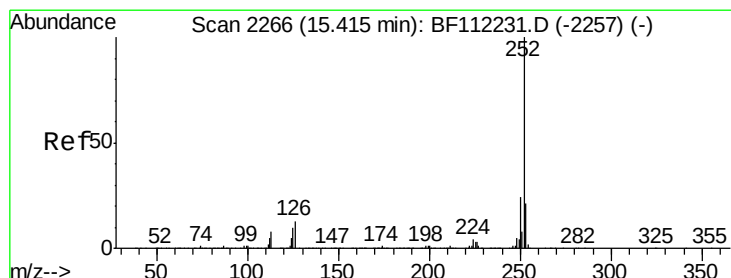
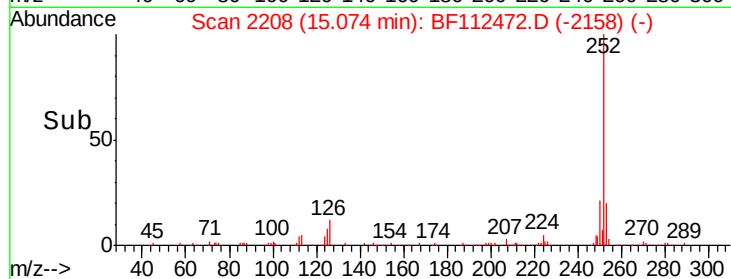
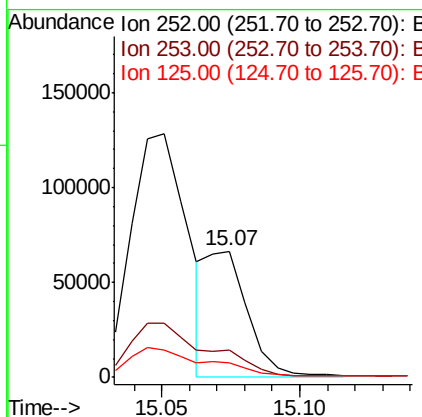
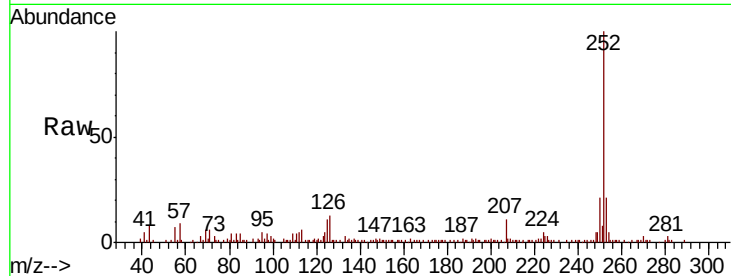
#89
Benzo(k)fluoranthene
Concen: 4.120 ng/mL
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Instrument :
BNA_F
ClientSampleId :
RBR-200028DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.0	27.0
125	11.1	9.1	13.7

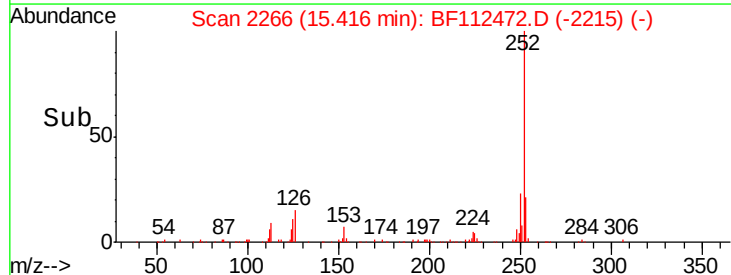
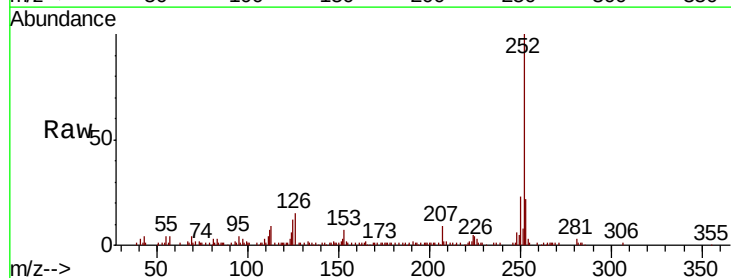
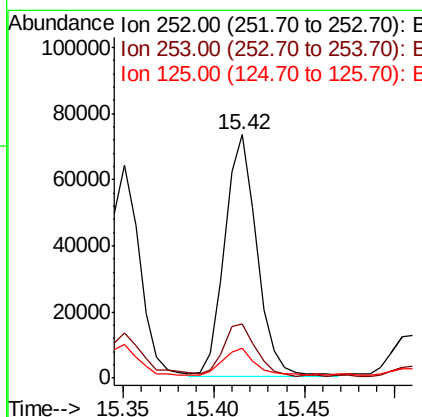
Manual Integrations
APPROVED

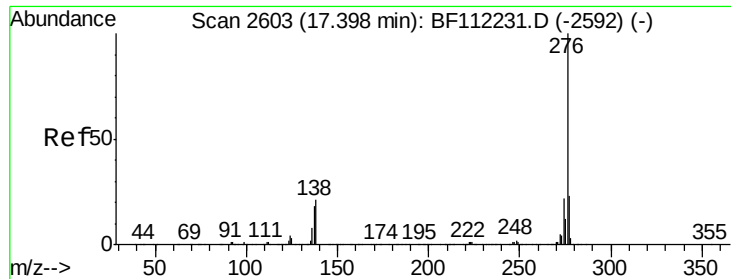
Sohil
2/11/2019 10:00:44 AM



#90
Benzo(a)pyrene
Concen: 5.787 ng/mL
RT: 15.42 min Scan# 2266
Delta R.T. 0.00 min
Lab File: BF112472.D
Acq: 8 Feb 2019 20:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	12.4	9.0	13.4





#92
 Benzo(a,h,i)perylene
 Concen: 2.162 ng
 RT: 17.42 min Scan# 2606
 Delta R.T. 0.02 min
 Lab File: BF112472.D
 Acq: 8 Feb 2019 20:58

Instrument :
 BNA_F
 ClientSampled :
 RBR-200028DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.6	19.4	29.0
138	22.6	19.1	28.7

Manual Integrations
 APPROVED

Sohil
 2/11/2019 10:00:44 AM

