

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
 Data File : BF113492.D
 Acq On : 2 Apr 2019 5:41
 Operator : JU/SJ
 Sample : K2153-15DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CONC-8DL

Manual Integrations
 APPROVED

Sohil
 4/2/2019 3:49:52 PM

Quant Time: Apr 02 08:27:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	123924	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	476766	20.00	ng	0.00
39) Acenaphthene-d10	9.74	164	219125	20.00	ng	0.00
64) Phenanthrene-d10	11.22	188	394582	20.00	ng	0.00
76) Chrysene-d12	13.85	240	354243	20.00	ng	0.00
87) Perylene-d12	15.26	264	254509	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	278017	36.68	ng	0.00
7) Phenol-d6	6.35	99	380535	39.69	ng	0.00
23) Nitrobenzene-d5	7.27	82	211157	26.29	ng	0.00
42) 2,4,6-Tribromophenol	10.53	330	93245	34.45	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	461757	19.42	ng	0.00
79) Terphenyl-d14	12.79	244	469244	29.20	ng	0.00
Target Compounds						
52) Acenaphthene	9.77	154	41100	3.203	ng	99
58) Fluorene	10.29	166	51008	3.404	ng	99
71) Phenanthrene	11.24	178	755410	38.551	ng	99
72) Anthracene	11.29	178	194286	9.761	ng	98
73) Carbazole	11.45	167	41706	2.196	ng	99
75) Fluoranthene	12.43	202	1078739	48.698	ng	99
78) Pyrene	12.66	202	1101608	44.876	ng	99
81) Benzo(a)anthracene	13.84	228	535877	26.427	ng	99
83) Chrysene	13.87	228	466142	22.632	ng	98
84) Bis(2-ethylhexyl)phthalate	13.83	149	121077	9.129	ng	99
86) Indeno(1,2,3-cd)pyrene	16.62	276	163491	9.249	ng	97
88) Benzo(b)fluoranthene	14.86	252	424618m	26.858	ng	
89) Benzo(k)fluoranthene	14.88	252	153012m	11.021	ng	
90) Benzo(a)pyrene	15.20	252	308935	22.041	ng	98
91) Dibenzo(a,h)anthracene	16.62	278	39612	3.269	ng	# 82
92) Benzo(g,h,i)perylene	17.03	276	172416	14.110	ng	98

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

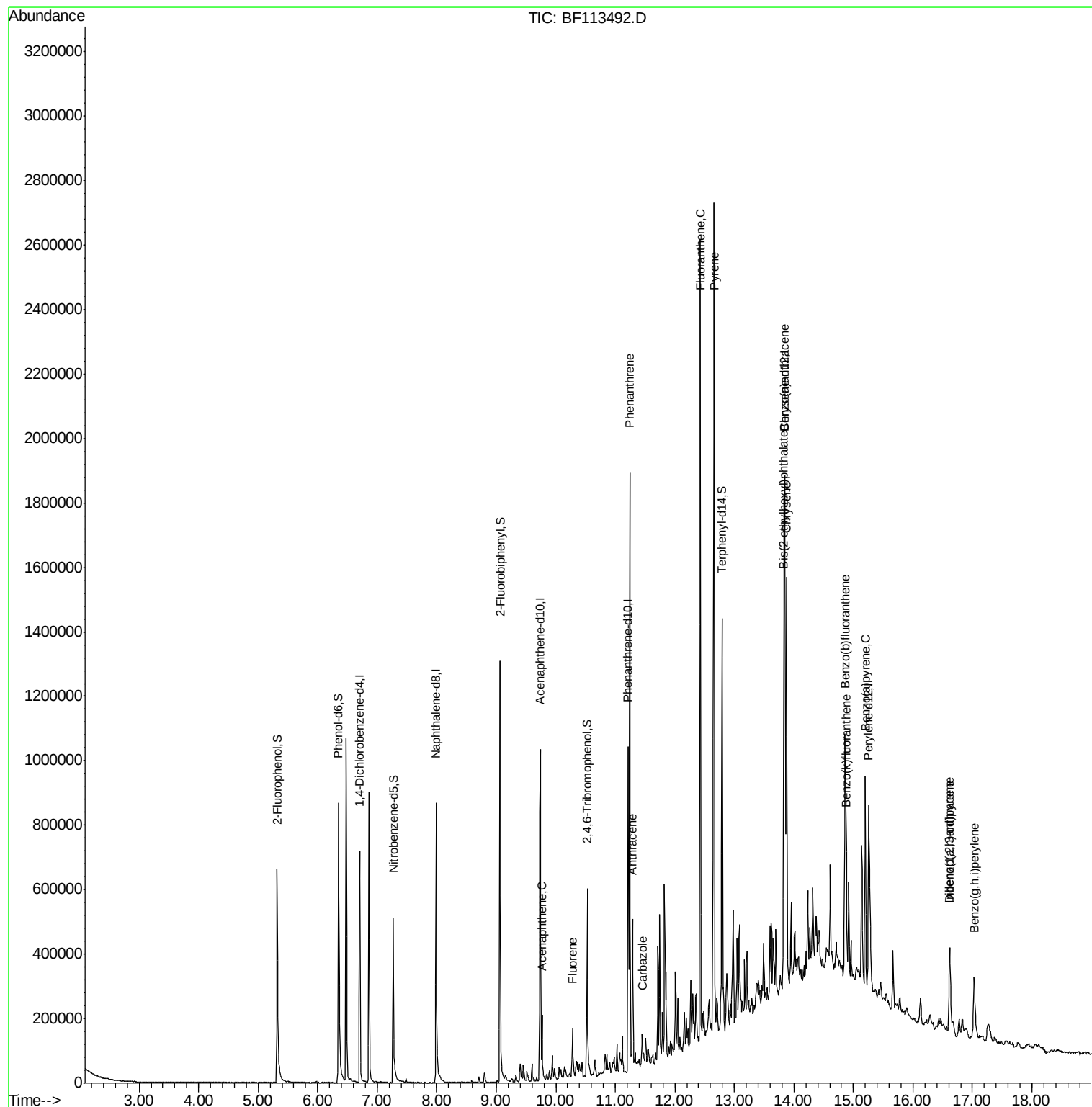
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
Data File : BF113492.D
Acq On : 2 Apr 2019 5:41
Operator : JU/SJ
Sample : K2153-15DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CONC-8DL

Quant Time: Apr 02 08:27:51 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 26 03:32:08 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM





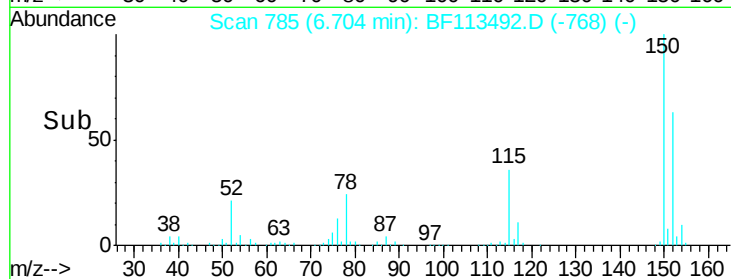
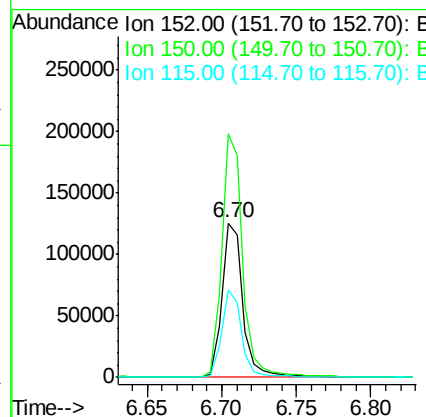
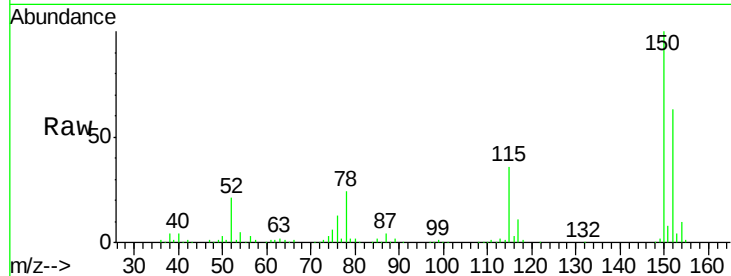
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.70 min Scan# 785
 Delta R.T. -0.00 min
 Lab File: BF113492.D
 Acq: 2 Apr 2019 5:41

Instrument :
 BNA_F
 ClientSampleId :
 CONC-8DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.1	124.7	187.1
115	56.8	46.0	69.0

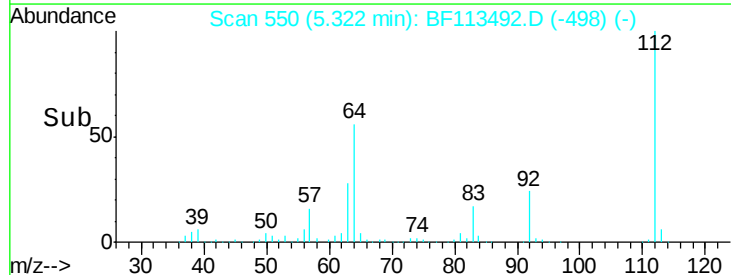
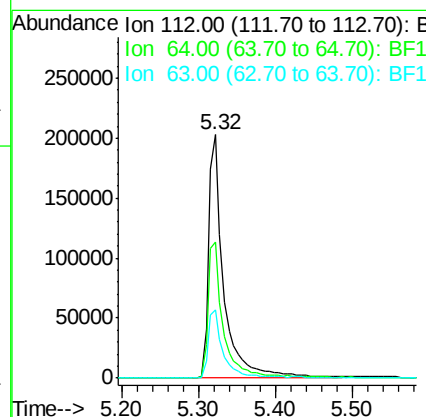
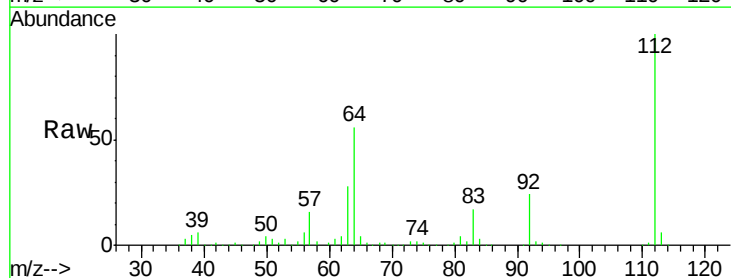
Manual Integrations
 APPROVED

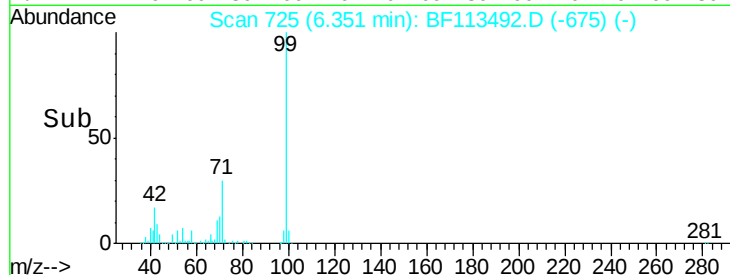
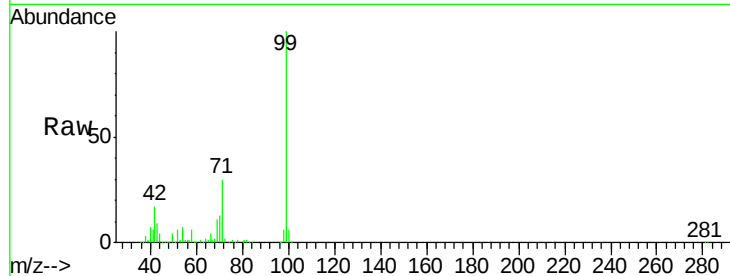
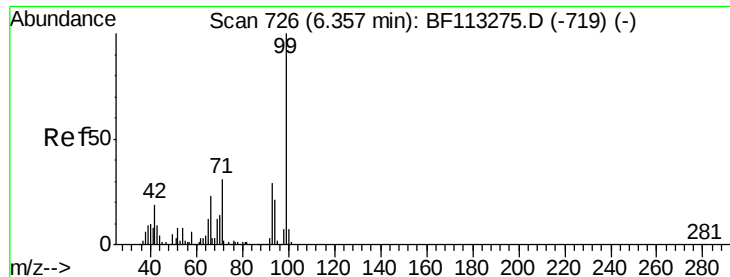
Sohil
 4/2/2019 3:49:52 PM



#5
 2-Fluorophenol
 Concen: 36.683 ng
 RT: 5.32 min Scan# 550
 Delta R.T. 0.01 min
 Lab File: BF113492.D
 Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	49.2	73.8
63	28.1	24.9	37.3





#7

Phenol-d6

Concen: 39.690 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		380535		
42	17.4	14.8	22.2		
71	30.1	24.9	37.3		

Instrument :

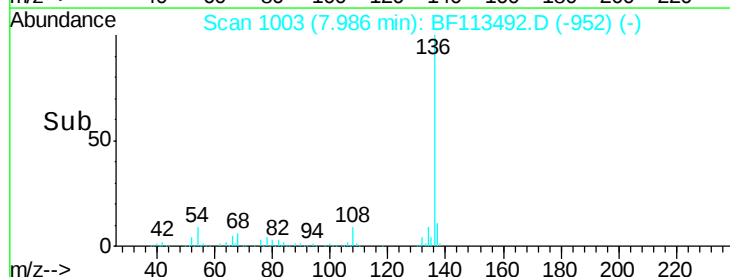
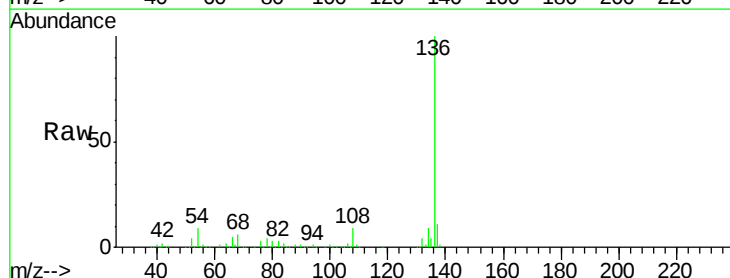
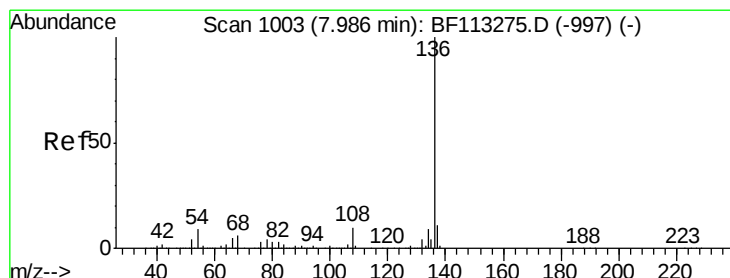
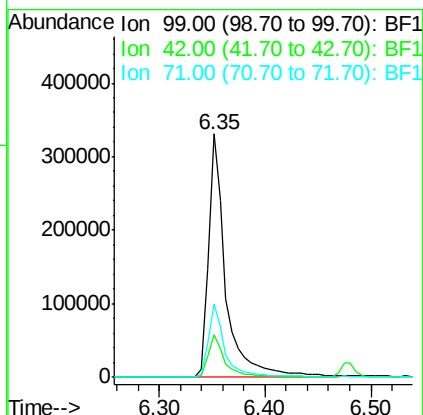
BNA_F

ClientSampleId :

CONC-8DL

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



#21

Naphthalene-d8

Concen: 20.000 ng

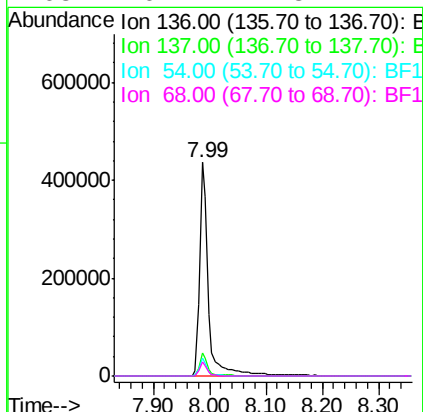
RT: 7.99 min Scan# 1003

Delta R.T. -0.00 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		476766		
137	10.9	8.9	13.3		
54	8.5	7.0	10.6		
68	6.4	4.8	7.2		





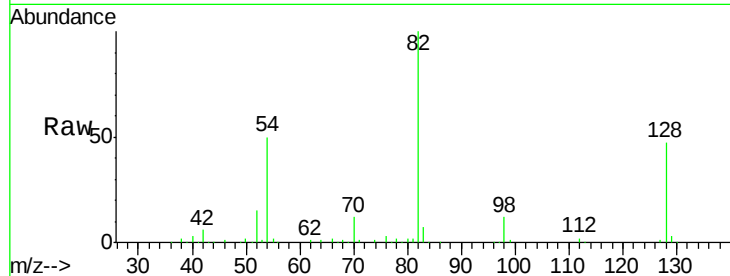
#23
 Nitrobenzene-d5
 Concen: 26.288 ng
 RT: 7.27 min Scan# 881
 Delta R.T. 0.00 min
 Lab File: BF113492.D
 Acq: 2 Apr 2019 5:41

Instrument :
 BNA_F
 ClientSampleId :
 CONC-8DL

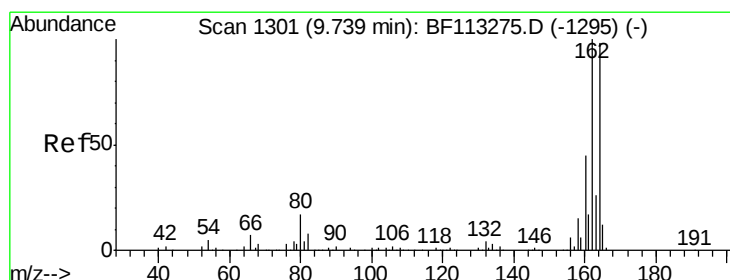
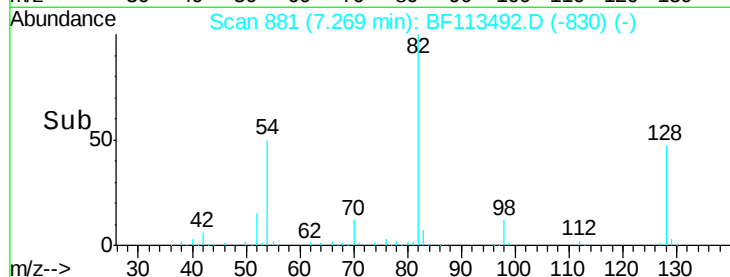
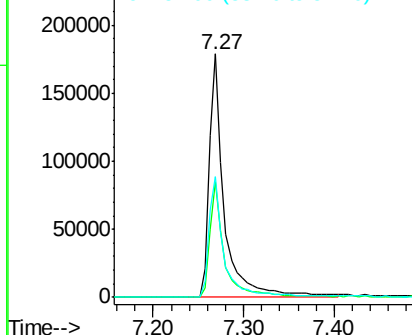
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	211157		
128	47.3	36.5	54.7	
54	49.7	42.2	63.2	

Manual Integrations
 APPROVED

Sohil
 4/2/2019 3:49:52 PM

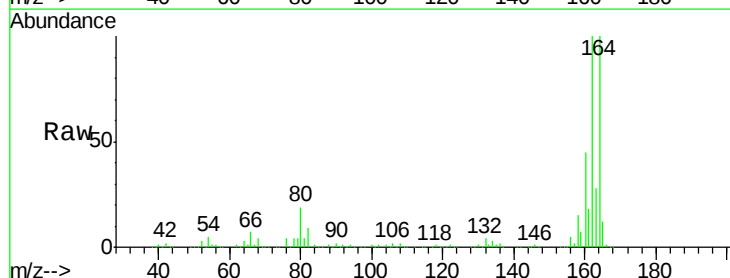


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF1

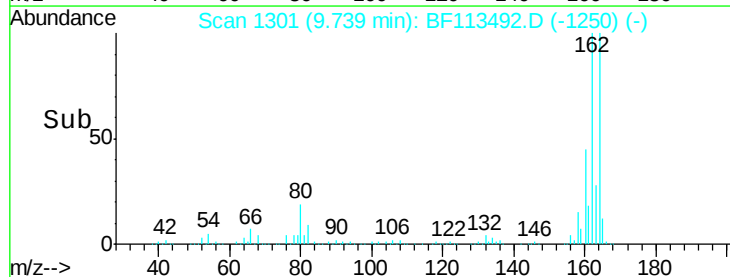
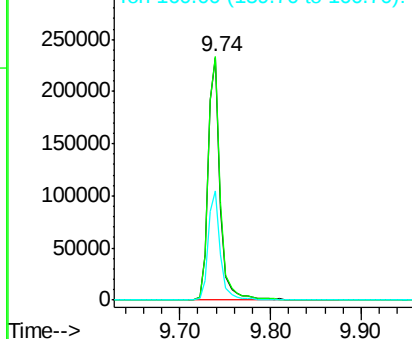


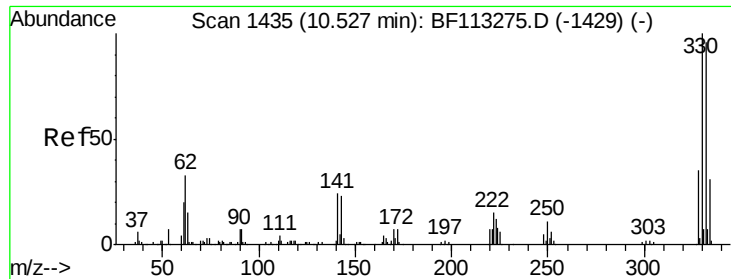
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.74 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: BF113492.D
 Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	219125		
162	100.2	81.8	122.6	
160	44.8	36.4	54.6	



Abundance Ion 164.00 (163.70 to 164.70): B
 Ion 162.00 (161.70 to 162.70): B
 Ion 160.00 (159.70 to 160.70): B





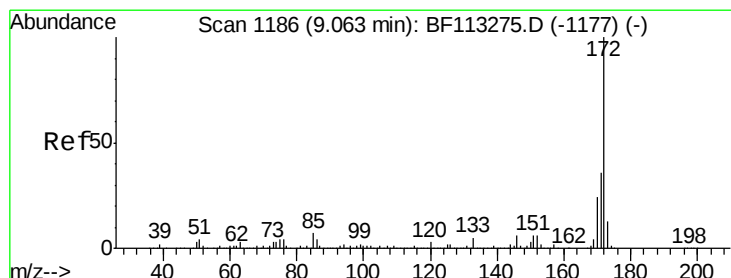
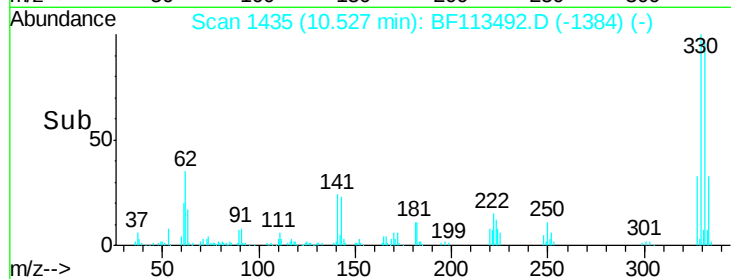
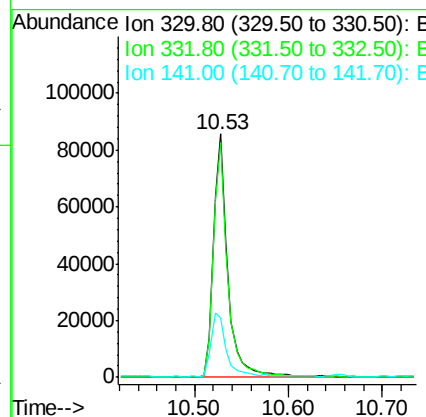
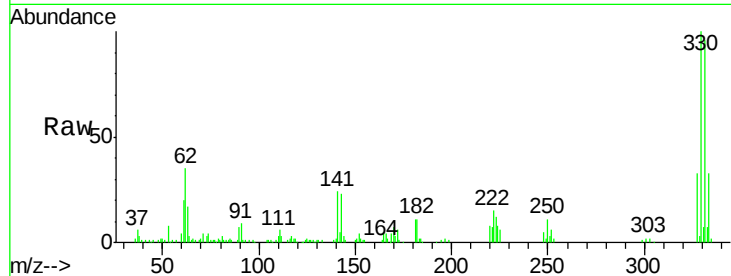
#42
 2,4,6-Tribromophenol
 Concen: 34.450 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. 0.00 min
 Lab File: BF113492.D
 Acq: 2 Apr 2019 5:41

Instrument :
 BNA_F
 ClientSampleId :
 CONC-8DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	93245		
332	96.5	77.8	116.6	
141	29.9	22.7	34.1	

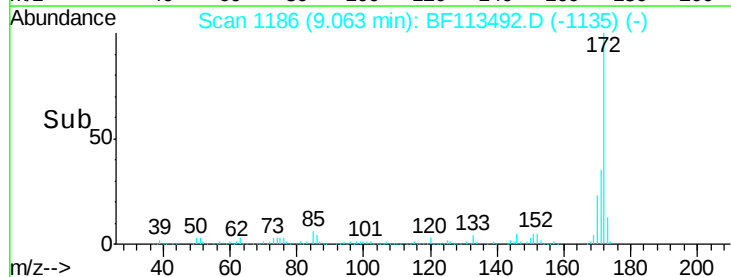
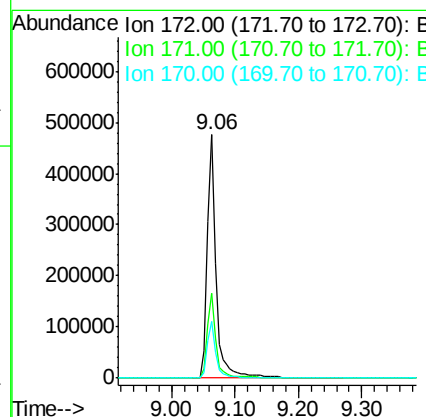
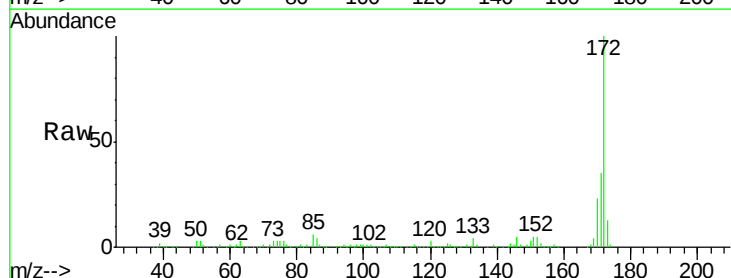
Manual Integrations
 APPROVED

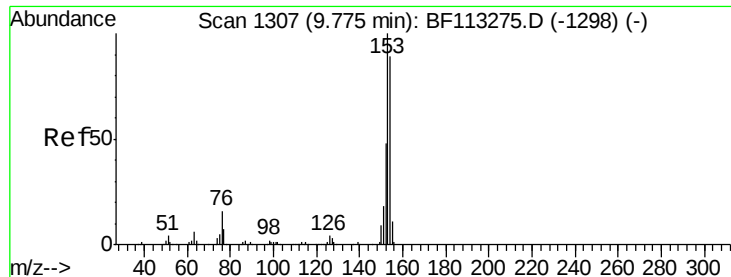
Sohil
 4/2/2019 3:49:52 PM



#45
 2-Fluorobiphenyl
 Concen: 19.421 ng
 RT: 9.06 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: BF113492.D
 Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	461757		
171	34.9	29.0	43.6	
170	23.5	19.5	29.3	





#52

Acenaphthene

Concen: 3.203 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BF113492.D

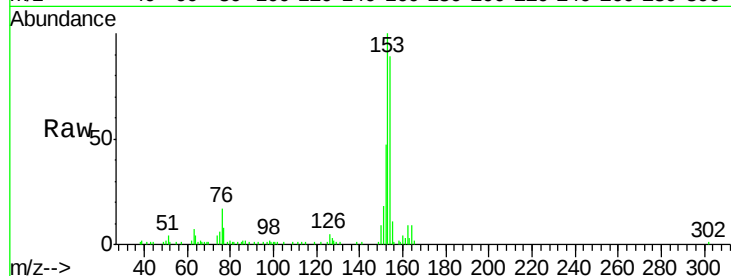
Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

ClientSampleId :

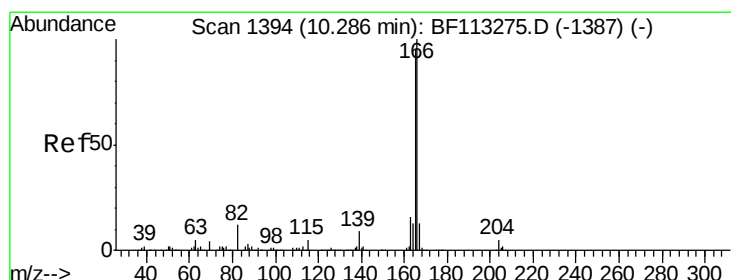
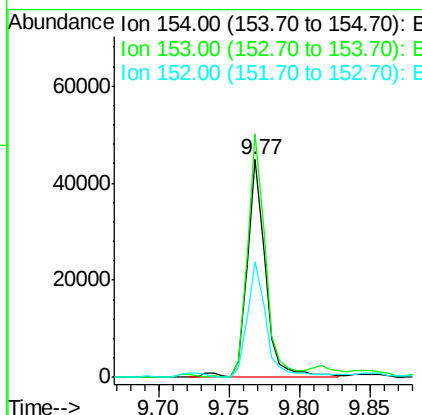
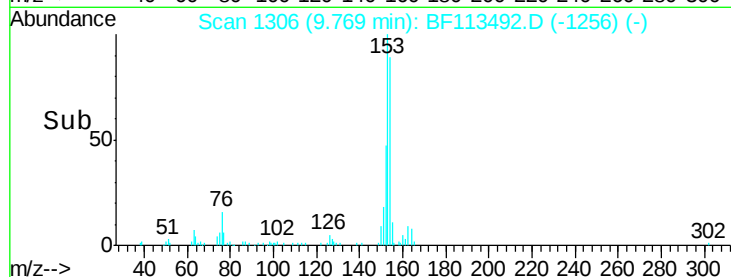
CONC-8DL



Tgt Ion:	154	Resp:	41100
Ion	Ratio	Lower	Upper
154	100		
153	111.7	89.5	134.3
152	52.9	43.3	64.9

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



#58

Fluorene

Concen: 3.404 ng

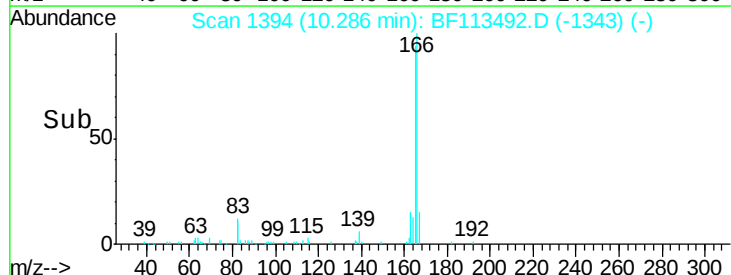
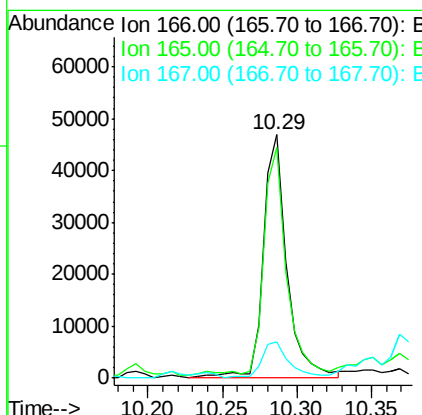
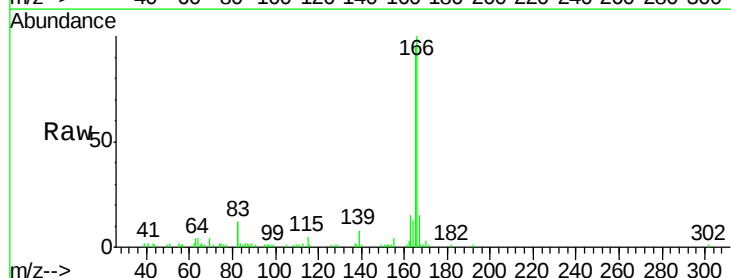
RT: 10.29 min Scan# 1394

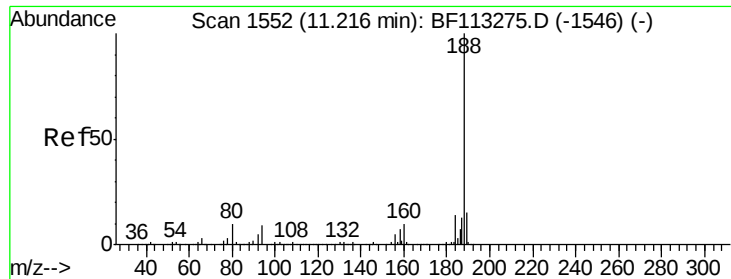
Delta R.T. -0.00 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Tgt Ion:	166	Resp:	51008
Ion	Ratio	Lower	Upper
166	100		
165	94.7	76.2	114.2
167	15.2	10.7	16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.22 min Scan# 1552

Delta R.T. -0.00 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

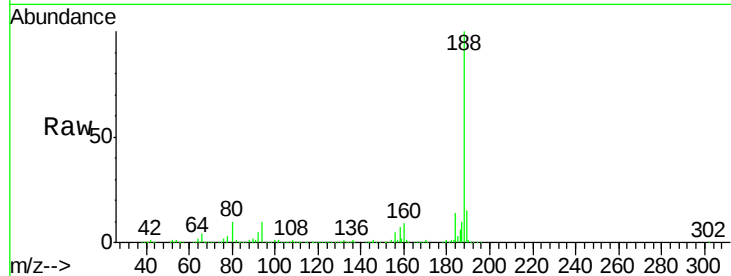
ClientSampled :

CONC-8DL

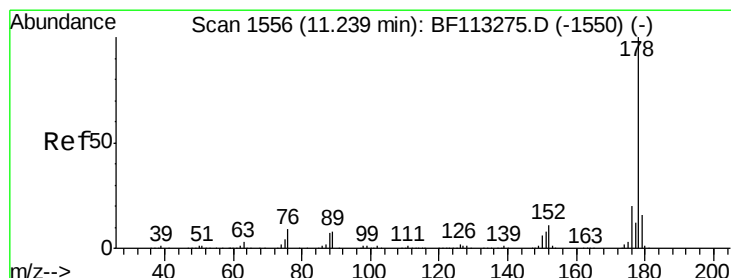
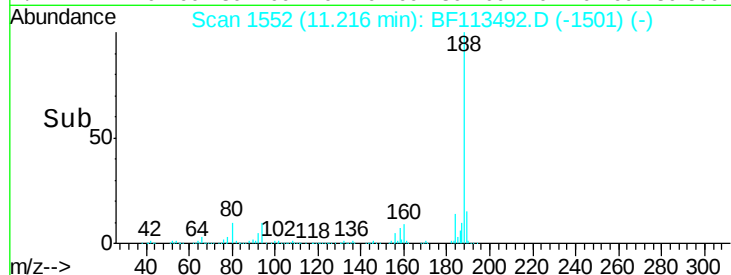
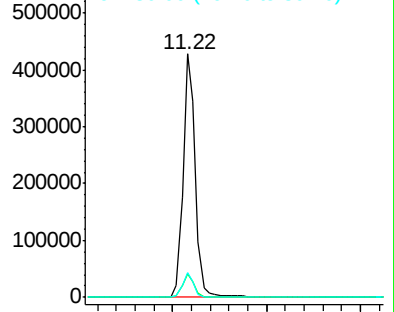
Tgt Ion:	188	Resp:	394582
Ion Ratio	Lower	Upper	
188	100		
94	9.8	7.0	10.6
80	9.9	7.7	11.5

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



Abundance Ion 188.00 (187.70 to 188.70): E



#71

Phenanthrene

Concen: 38.551 ng

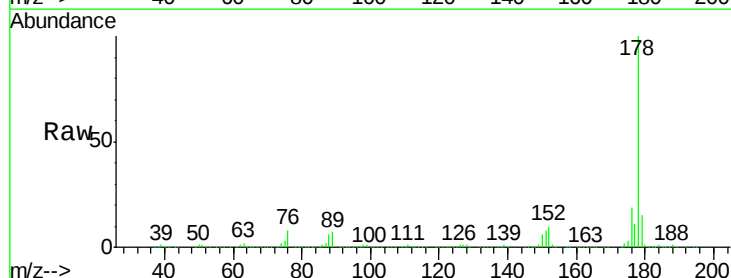
RT: 11.24 min Scan# 1557

Delta R.T. 0.01 min

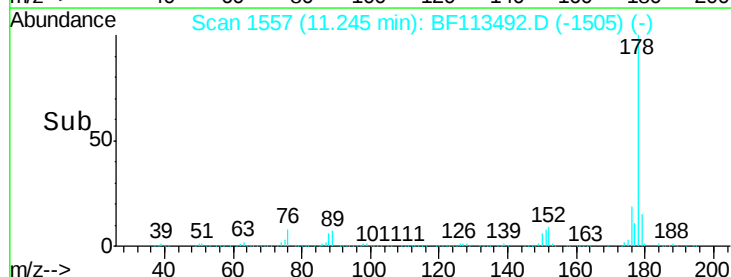
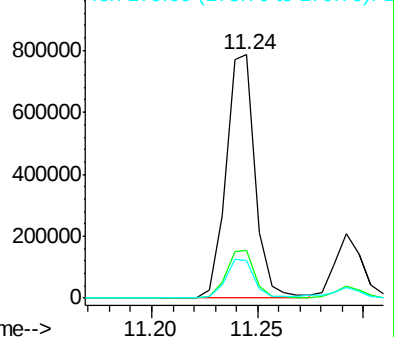
Lab File: BF113492.D

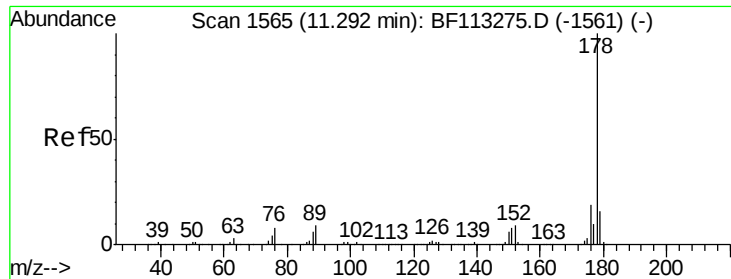
Acq: 2 Apr 2019 5:41

Tgt Ion:	178	Resp:	755410
Ion Ratio	Lower	Upper	
178	100		
176	19.4	16.2	24.2
179	15.4	12.7	19.1



Abundance Ion 178.00 (177.70 to 178.70): E





#72

Anthracene

Concen: 9.761 ng

RT: 11.29 min Scan# 1565

Delta R.T. -0.00 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

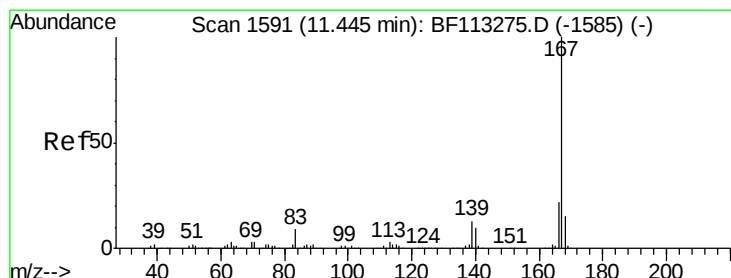
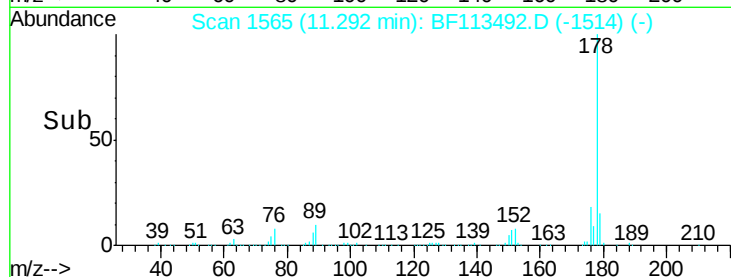
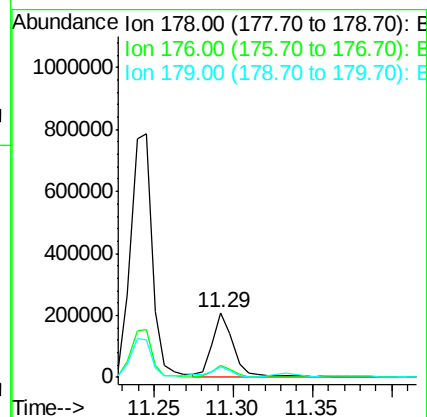
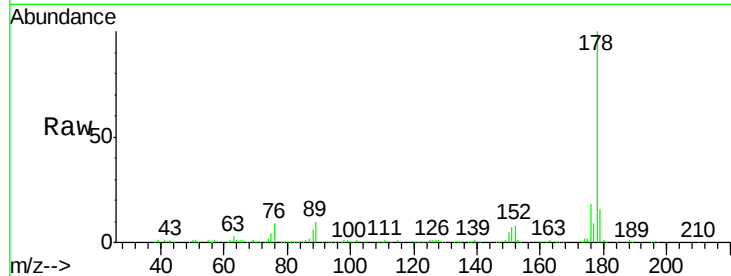
ClientSampleId :

CONC-8DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	15.6	12.8	19.2

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



#73

Carbazole

Concen: 2.196 ng

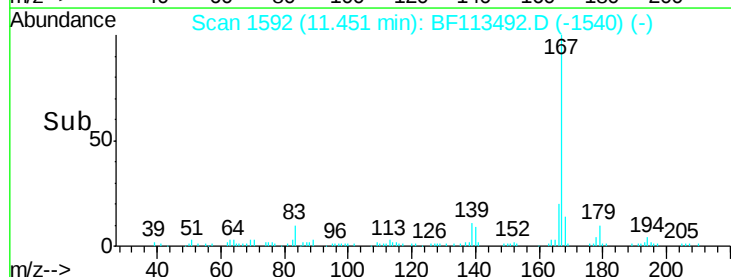
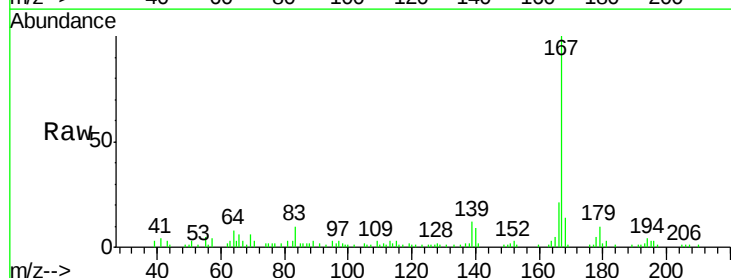
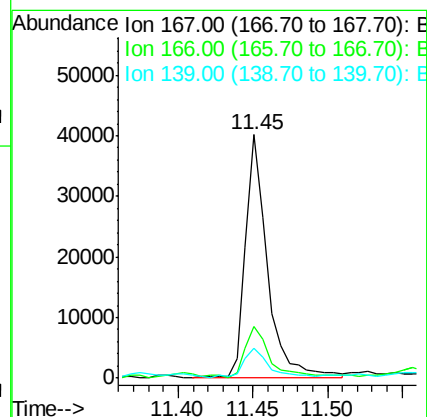
RT: 11.45 min Scan# 1592

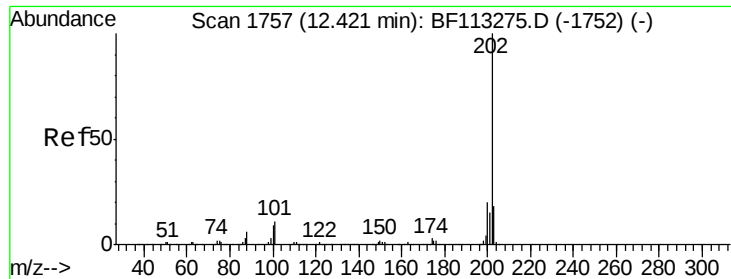
Delta R.T. 0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.4	26.0
139	12.3	10.4	15.6





#75

Fluoranthene

Concen: 48.698 ng

RT: 12.43 min Scan# 1758

Delta R.T. 0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

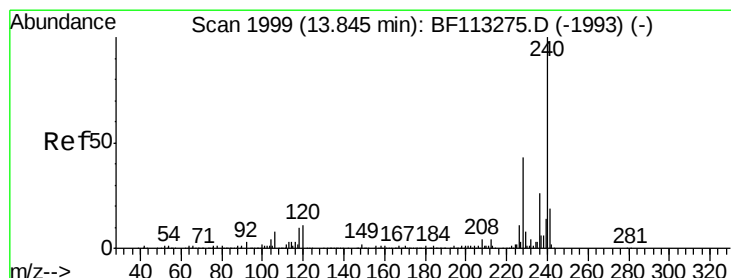
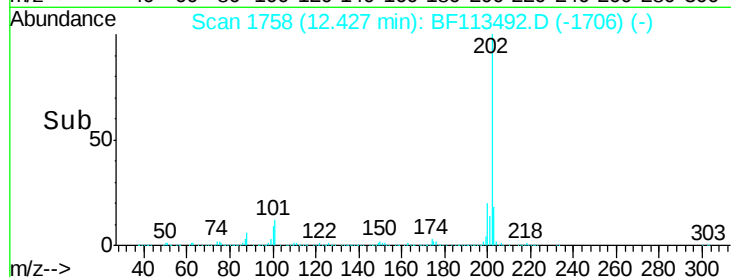
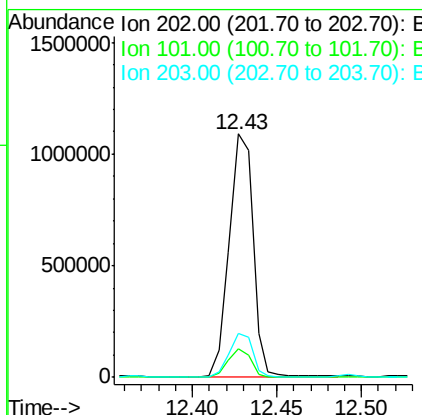
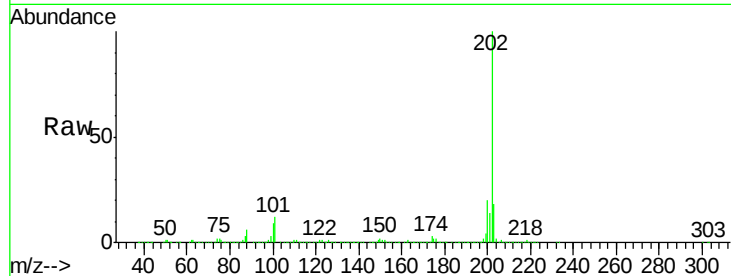
ClientSampleID :

CONC-8DL

Tgt	Ion	202	Resp:	1078739
Ion	Ratio	Lower	Upper	
202	100			
101	12.0	0.0	31.4	
203	18.3	0.0	38.0	

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



#76

Chrysene-d12

Concen: 20.000 ng

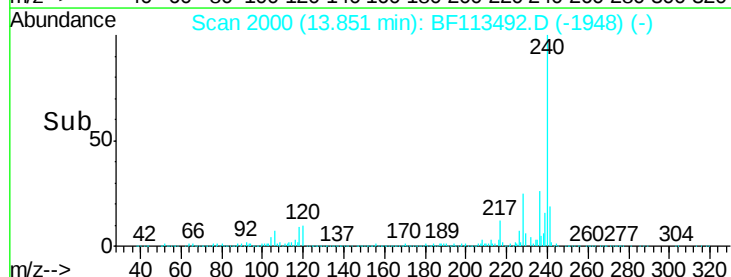
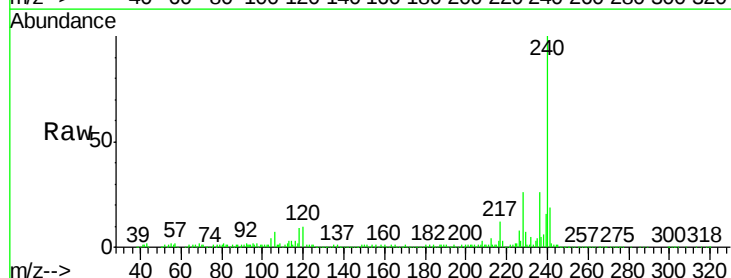
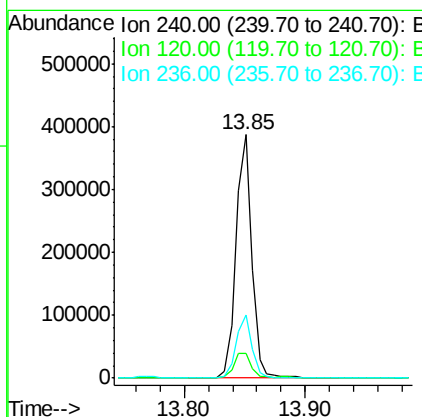
RT: 13.85 min Scan# 2000

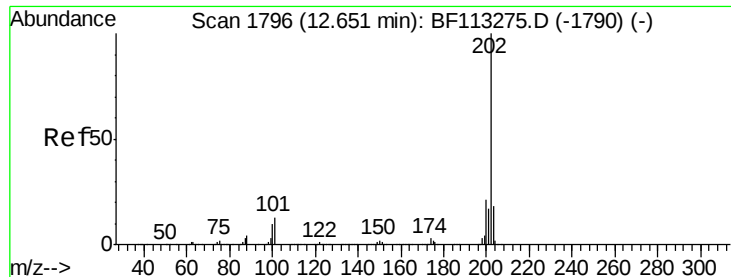
Delta R.T. 0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Tgt	Ion	240	Resp:	354243
Ion	Ratio	Lower	Upper	
240	100			
120	10.0	8.8	13.2	
236	26.1	20.9	31.3	





#78

Pyrene

Concen: 44.876 ng

RT: 12.66 min Scan# 1797

Delta R.T. 0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

ClientSampleId :

CONC-8DL

Tgt Ion:202 Resp: 1101608

Ion Ratio Lower Upper

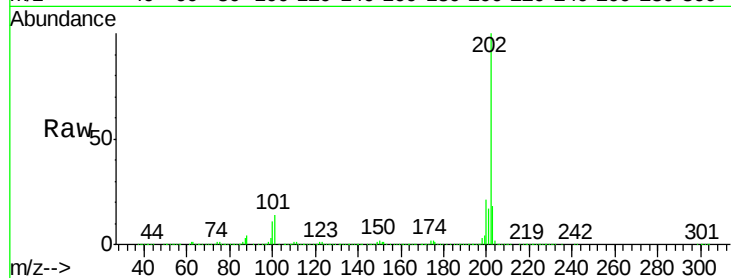
202 100

200 20.5 16.8 25.2

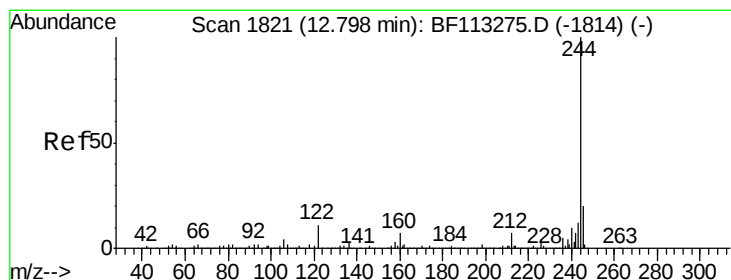
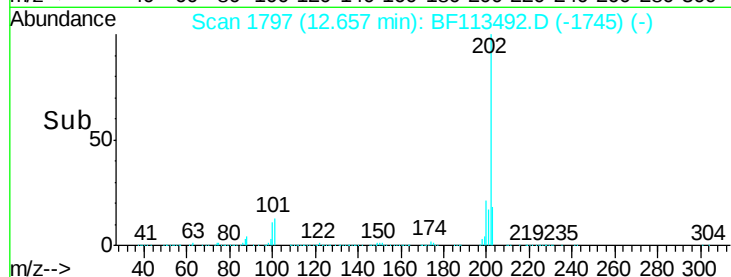
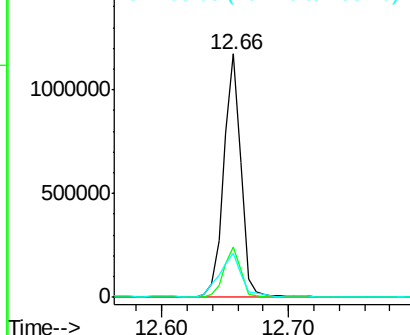
203 18.3 14.4 21.6

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



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: 29.197 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

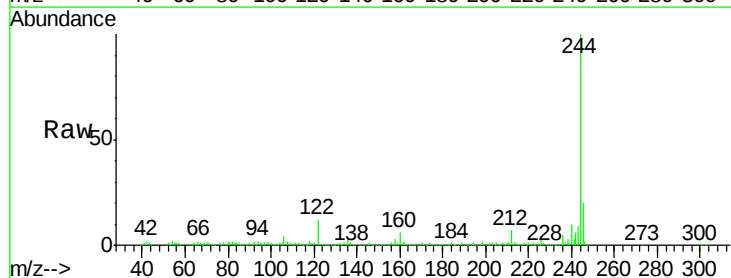
Tgt Ion:244 Resp: 469244

Ion Ratio Lower Upper

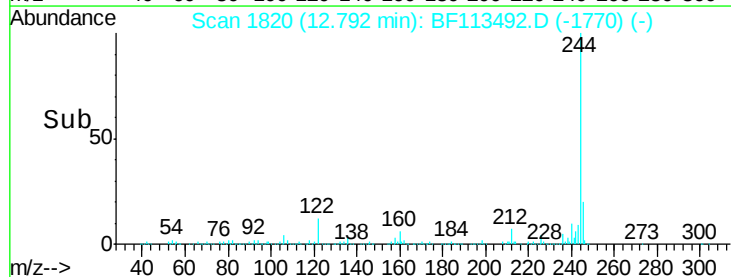
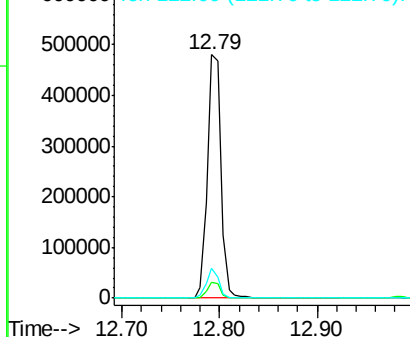
244 100

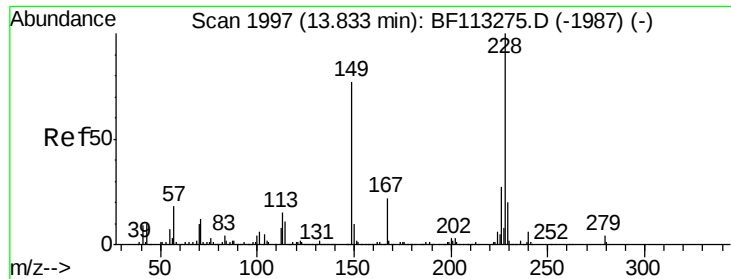
212 6.5 5.5 8.3

122 12.2 8.6 13.0



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





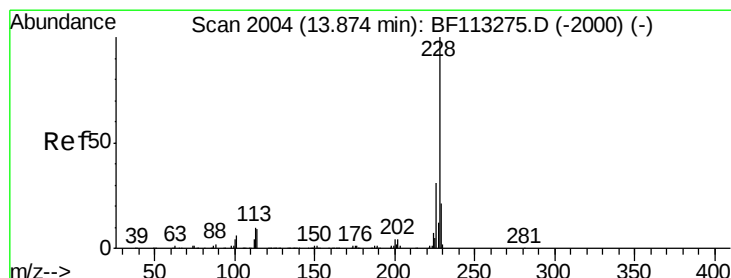
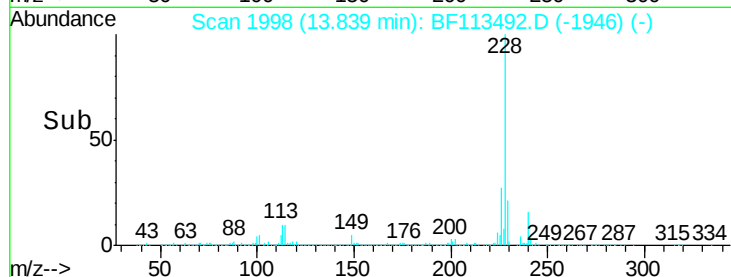
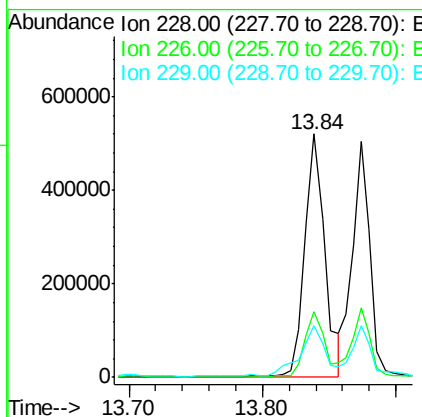
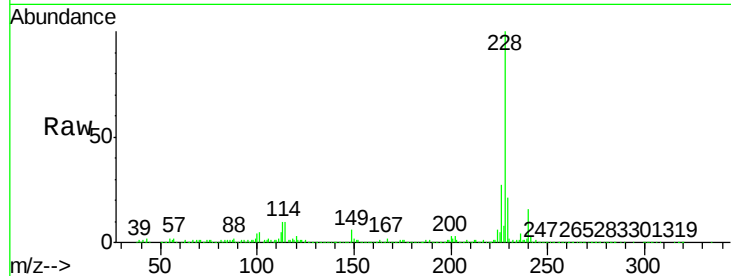
#81
Benzo(a)anthracene
Concen: 26.427 ng
RT: 13.84 min Scan# 1998
Delta R.T. 0.01 min
Lab File: BF113492.D
Acq: 2 Apr 2019 5:41

Instrument :
BNA_F
ClientSampleId :
CONC-8DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	21.1	16.2	24.4

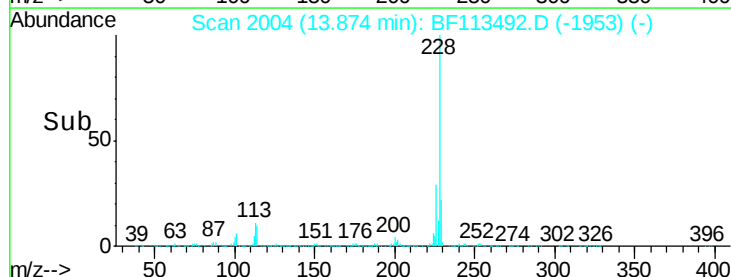
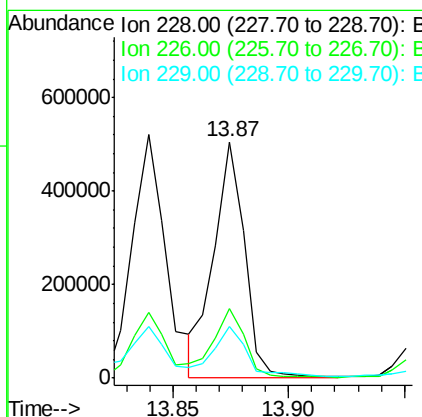
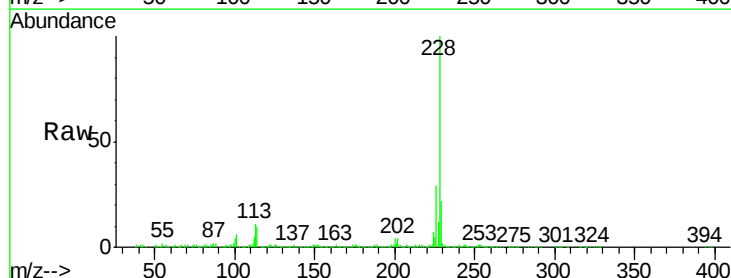
Manual Integrations
APPROVED

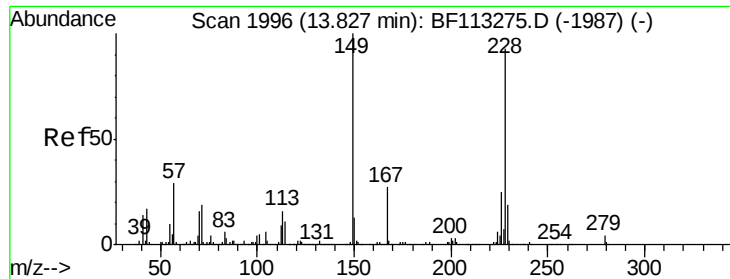
Sohil
4/2/2019 3:49:52 PM



#83
Chrysene
Concen: 22.632 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.00 min
Lab File: BF113492.D
Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.3	36.5
229	21.9	16.3	24.5





#84

Bis(2-ethylhexyl)phthalate

Concen: 9.129 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.00 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

ClientSampleId :

CONC-8DL

Tgt Ion:149 Resp: 121077
Ion Ratio Lower Upper

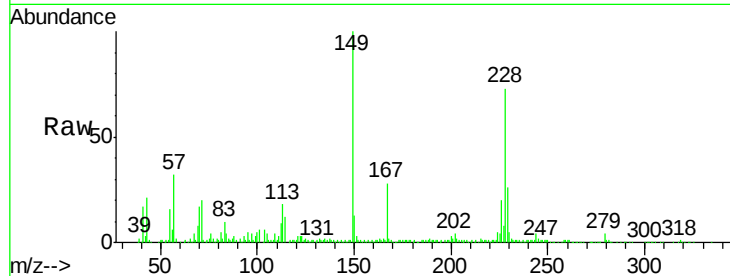
149 100

167 27.7 21.8 32.8

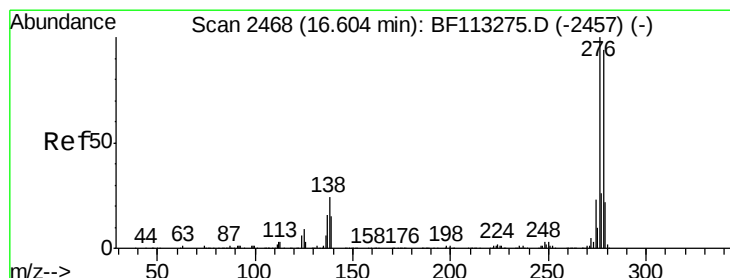
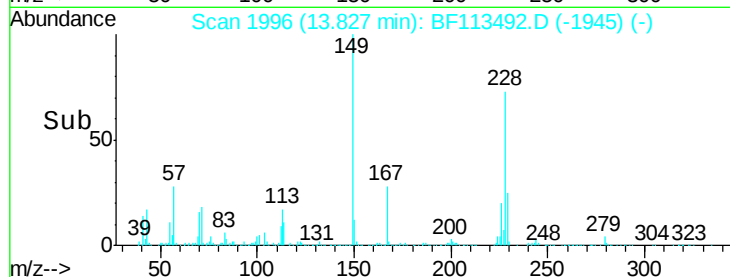
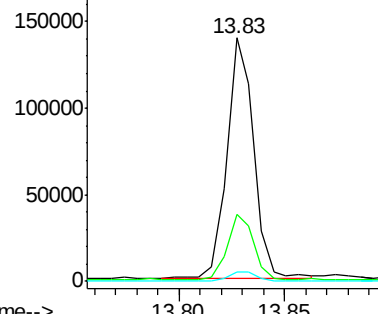
279 3.7 2.9 4.3

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 9.249 ng

RT: 16.62 min Scan# 2471

Delta R.T. 0.02 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

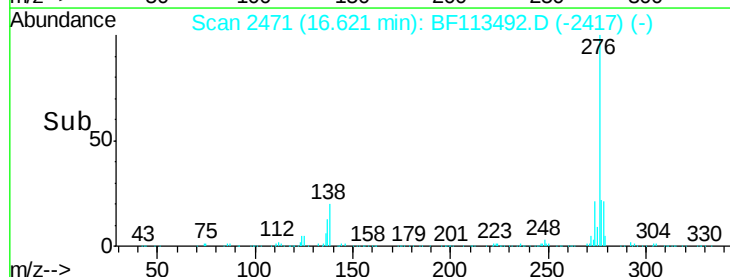
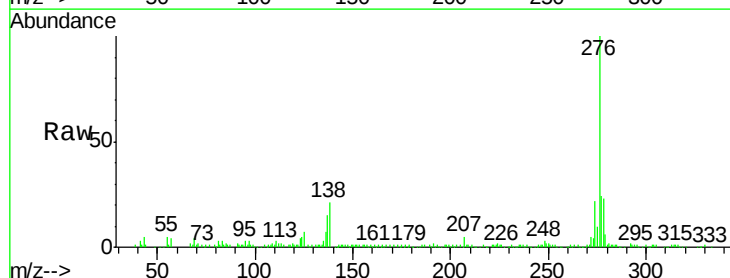
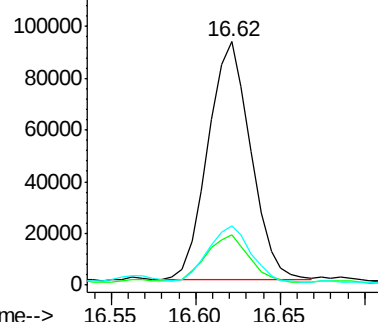
Tgt Ion:276 Resp: 163491
Ion Ratio Lower Upper

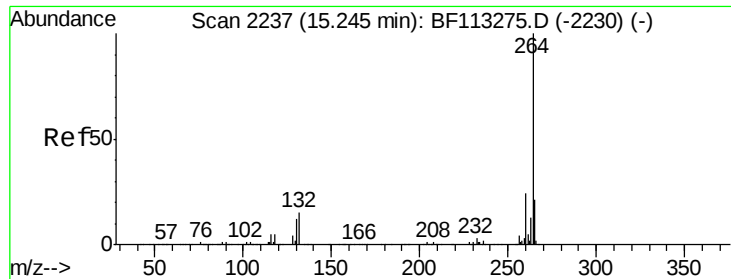
276 100

138 21.0 18.1 27.1

277 23.5 20.2 30.4

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





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.26 min Scan# 2239

Delta R.T. 0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Instrument :

BNA_F

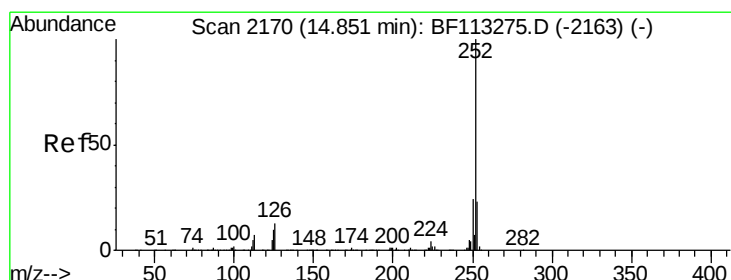
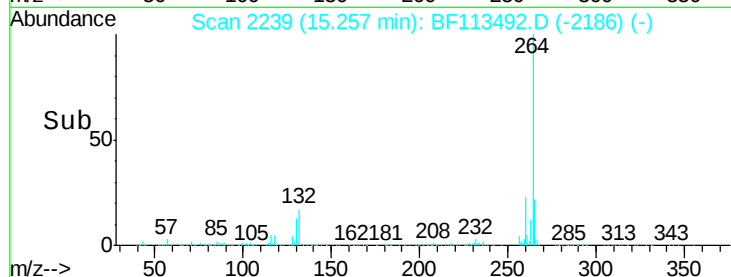
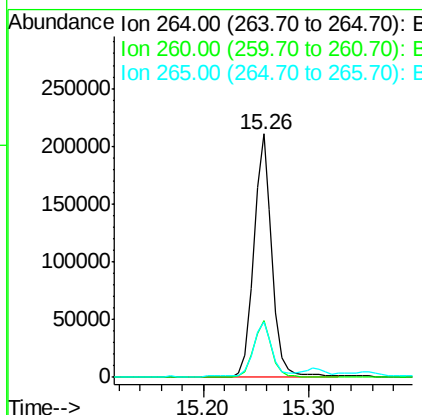
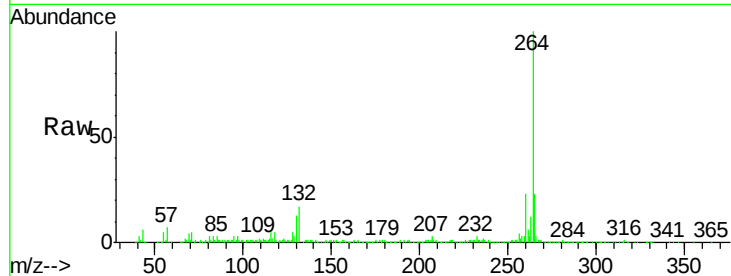
ClientSampleId :

CONC-8DL

Tgt Ion:	264	Resp:	254509
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.1	28.7
265	22.9	17.1	25.7

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



#88

Benzo(b)fluoranthene

Concen: 26.858 ng m

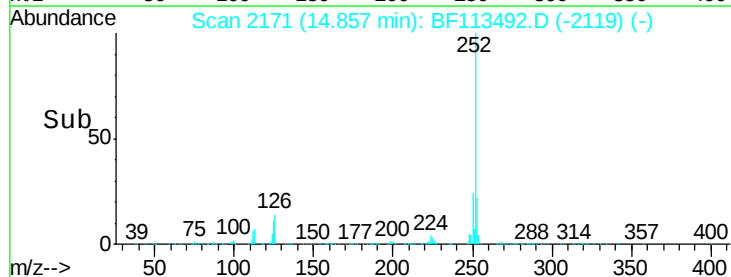
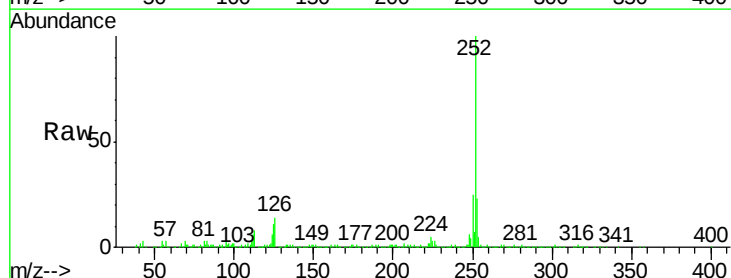
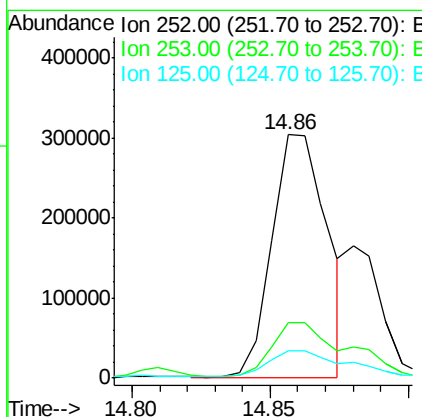
RT: 14.86 min Scan# 2171

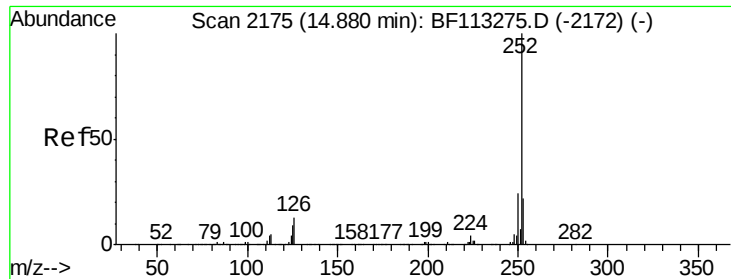
Delta R.T. 0.01 min

Lab File: BF113492.D

Acq: 2 Apr 2019 5:41

Tgt Ion:	252	Resp:	424618
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.0	27.0
125	11.5	7.6	11.4#





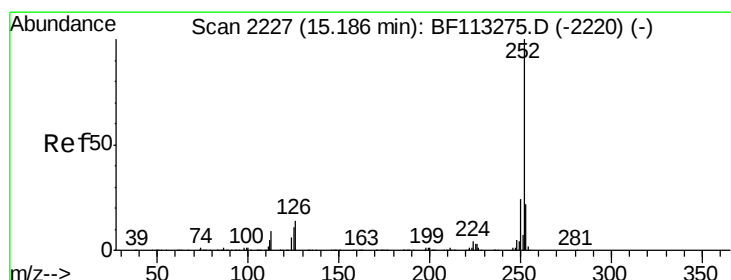
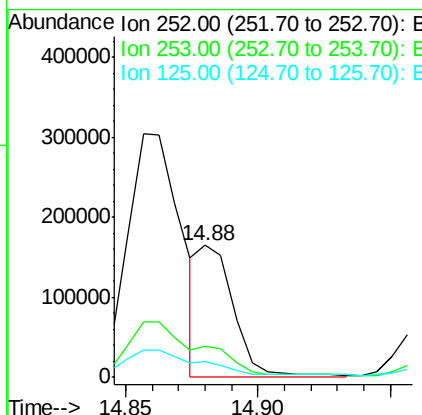
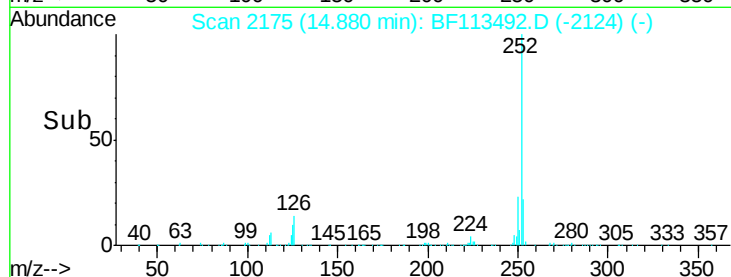
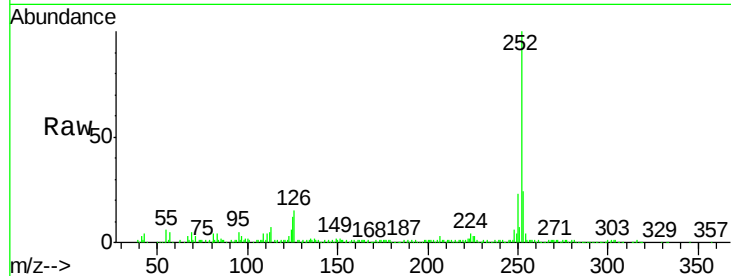
#89
Benzo(k)fluoranthene
Concen: 11.021 ng m
RT: 14.88 min Scan# 2175
Delta R.T. -0.00 min
Lab File: BF113492.D
Acq: 2 Apr 2019 5:41

Instrument :
BNA_F
ClientSampleId :
CONC-8DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.7	26.5
125	12.1	7.3	10.9

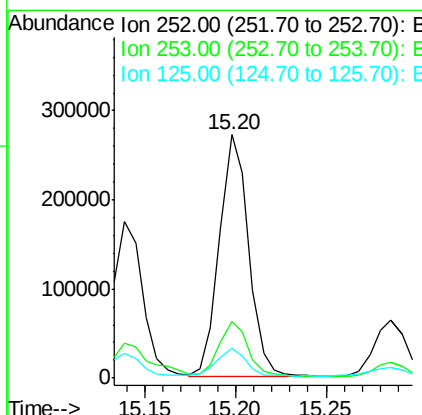
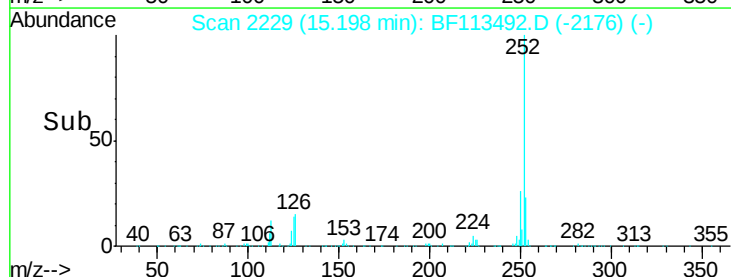
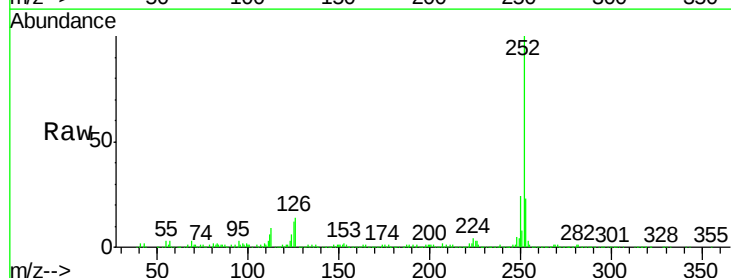
Manual Integrations
APPROVED

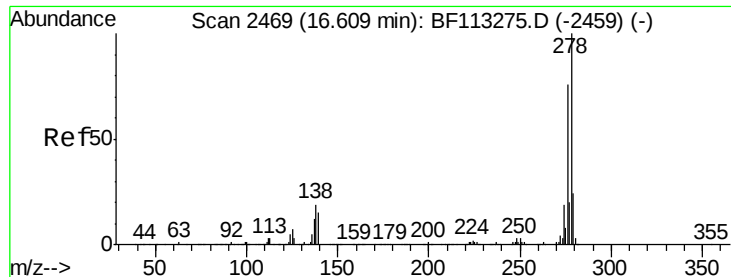
Sohil
4/2/2019 3:49:52 PM



#90
Benzo(a)pyrene
Concen: 22.041 ng
RT: 15.20 min Scan# 2229
Delta R.T. 0.01 min
Lab File: BF113492.D
Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	12.1	8.8	13.2





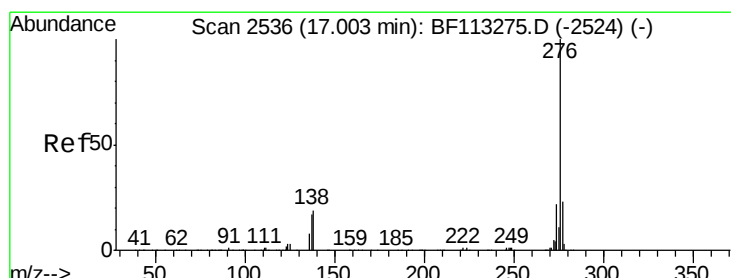
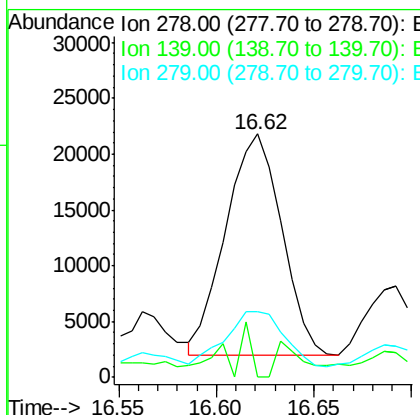
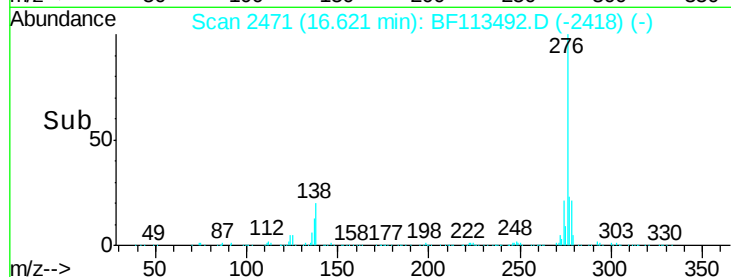
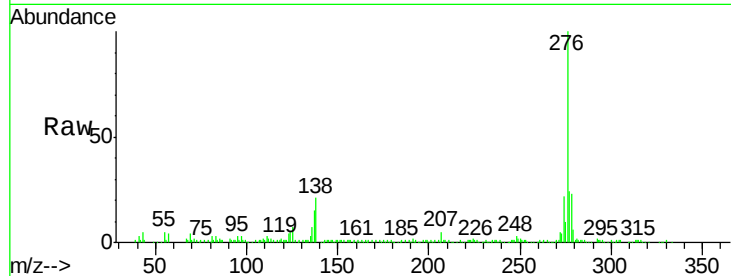
#91
Dibenzo(a,h)anthracene
Concen: 3.269 ng
RT: 16.62 min Scan# 2471
Delta R.T. 0.01 min
Lab File: BF113492.D
Acq: 2 Apr 2019 5:41

Instrument :
BNA_F
ClientSampled :
CONC-8DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.0	18.0#
279	26.8	19.0	28.6

Manual Integrations
APPROVED

Sohil
4/2/2019 3:49:52 PM



#92
Benzo(g,h,i)perylene
Concen: 14.110 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.02 min
Lab File: BF113492.D
Acq: 2 Apr 2019 5:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.5	18.8	28.2
138	20.6	15.6	23.4

