

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
 Data File : BF113334.D
 Acq On : 27 Mar 2019 16:47
 Operator : JU/SJ
 Sample : K2086-04
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-14

Manual Integrations
 APPROVED

Sohil
 3/29/2019 4:42:09 PM

Quant Time: Mar 29 05:46:41 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	172689	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	651360	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	309334	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	580952	20.00	ng	0.00
76) Chrysene-d12	13.84	240	396850	20.00	ng	0.00
87) Perylene-d12	15.24	264	430103	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	935423	88.57	ng	0.00
7) Phenol-d6	6.35	99	1241242	92.90	ng	0.00
23) Nitrobenzene-d5	7.26	82	755297	68.83	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	319342	83.58	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	1399335	67.21	ng	0.00
79) Terphenyl-d14	12.79	244	1235679	68.63	ng	0.00

Target Compounds				Qvalue		
49) Acenaphthylene	9.59	152	71438	2.221	ng	99
50) Dimethylphthalate	9.45	163	112913	4.926	ng	99
55) Dibenzofuran	9.94	168	54865	2.015	ng	94
58) Fluorene	10.28	166	42868	2.027	ng	95
71) Phenanthrene	11.23	178	637400	22.093	ng	98
72) Anthracene	11.29	178	109460	3.735	ng	97
73) Carbazole	11.44	167	124265	4.444	ng	98
75) Fluoranthene	12.42	202	1972619	60.483	ng	98
78) Pyrene	12.65	202	1501001	54.581	ng	99
81) Benzo(a)anthracene	13.83	228	225953	9.947	ng	93
83) Chrysene	13.86	228	760178	32.946	ng	99
86) Indeno(1,2,3-cd)pyrene	16.59	276	188735	9.531	ng	95
88) Benzo(b)fluoranthene	14.84	252	829573m	31.049	ng	
89) Benzo(k)fluoranthene	14.87	252	206757m	8.812	ng	
90) Benzo(a)pyrene	15.18	252	182385	7.700	ng	98
91) Dibenzo(a,h)anthracene	16.59	278	43020m	2.101	ng	
92) Benzo(g,h,i)perylene	16.99	276	167597	8.116	ng	98

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

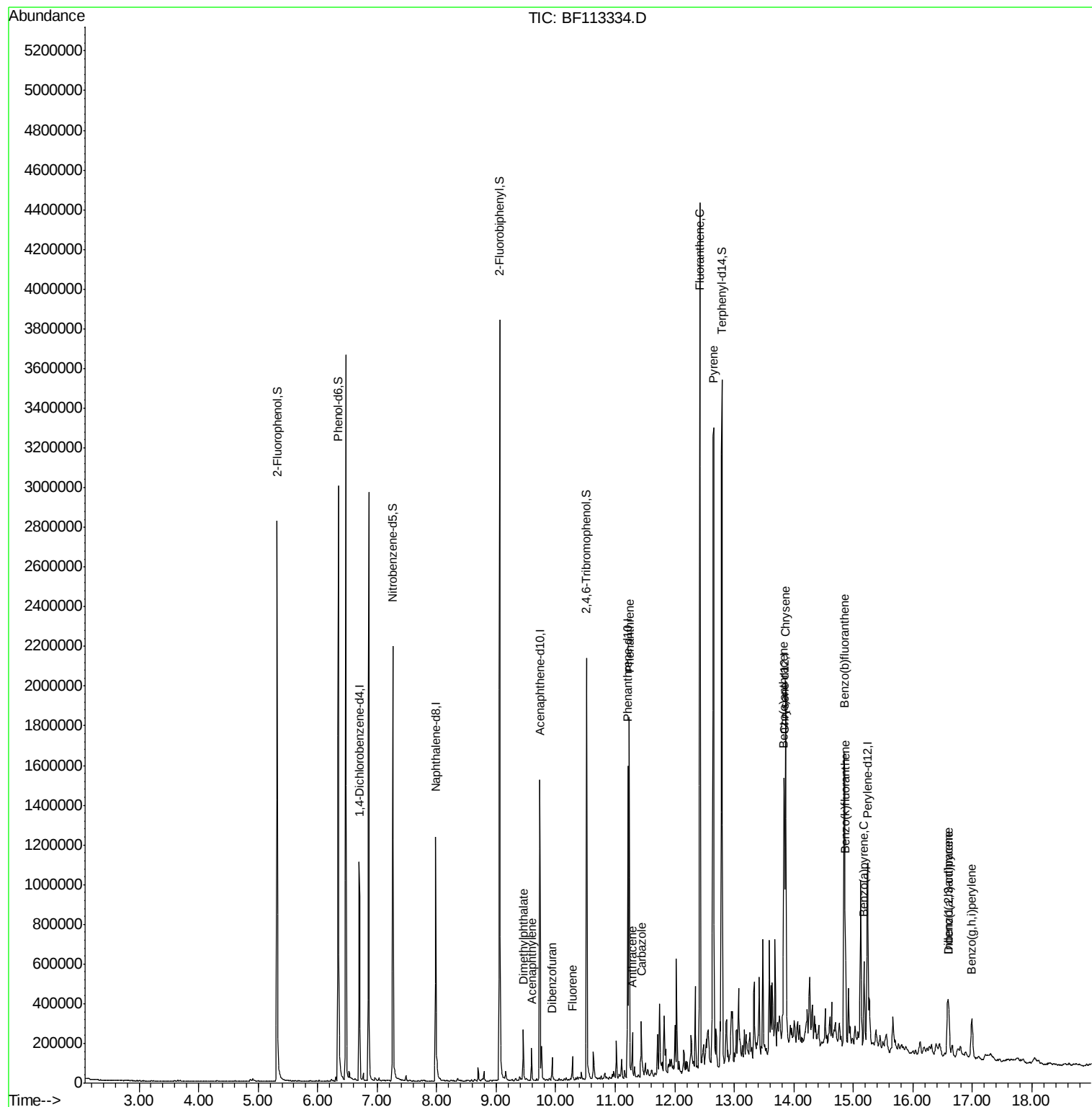
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
Data File : BF113334.D
Acq On : 27 Mar 2019 16:47
Operator : JU/SJ
Sample : K2086-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

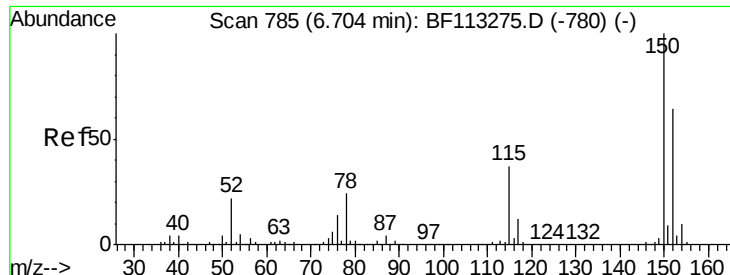
Instrument :
BNA_F
ClientSampleId :
CS-14

Manual Integrations
APPROVED

Sohil
3/29/2019 4:42:09 PM

Quant Time: Mar 29 05:46:41 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





#1

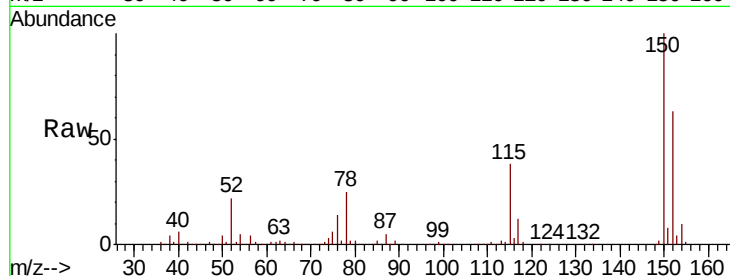
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.70 min Scan# 784
 Delta R.T. -0.01 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Instrument :
 BNA_F
 ClientSampleId :
 CS-14

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.7	187.1
115	60.0	46.0	69.0

Manual Integrations
 APPROVED

Sohil
 3/29/2019 4:42:09 PM

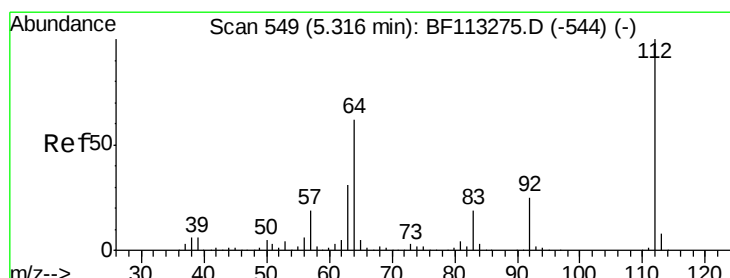
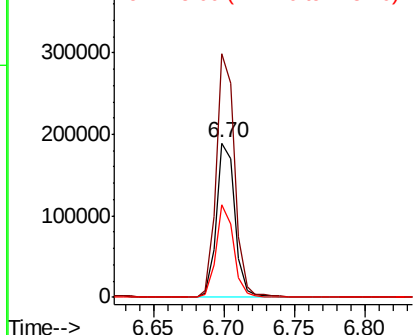
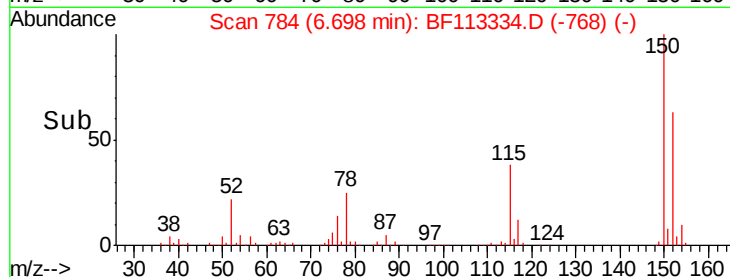


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

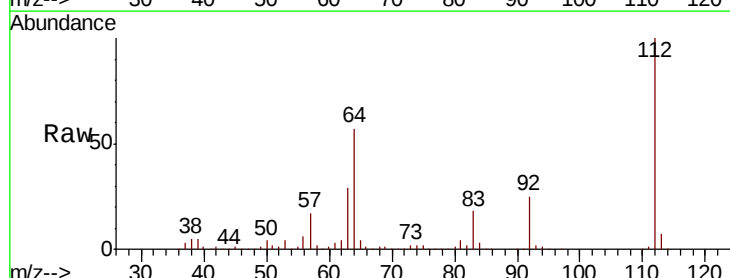
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 88.571 ng
 RT: 5.32 min Scan# 550
 Delta R.T. 0.01 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	49.2	73.8
63	29.0	24.9	37.3

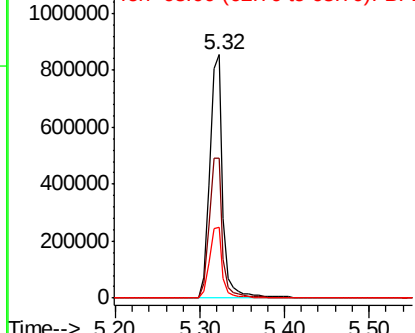
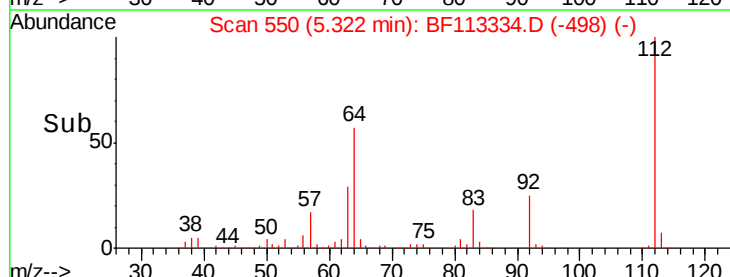


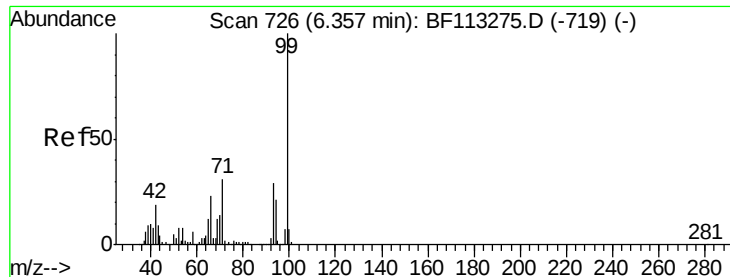
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 92.904 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Instrument :

BNA_F

ClientSampled :

CS-14

Tot Ion: 99 Resp: 1241242

Ion Ratio Lower Upper

99 100

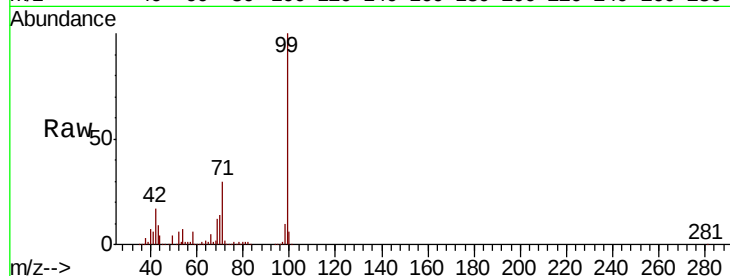
42 16.8 14.8 22.2

71 29.8 24.9 37.3

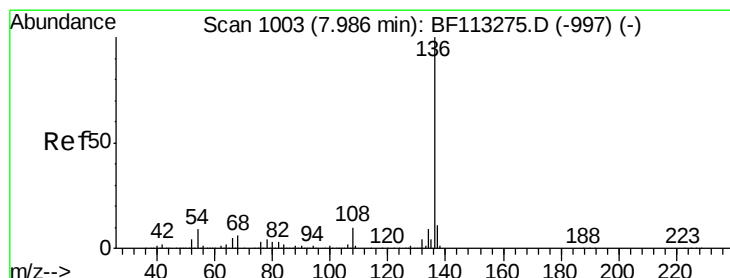
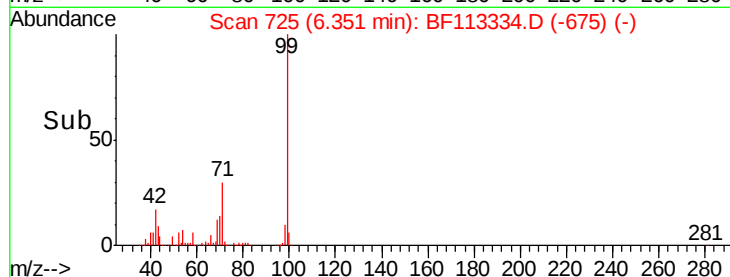
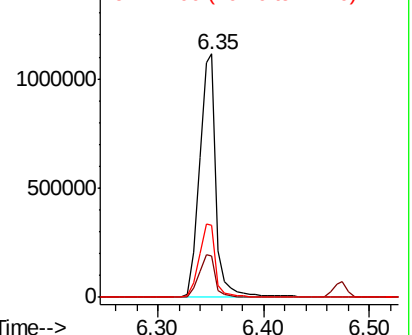
Manual Integrations
APPROVED

Sohil

3/29/2019 4:42:09 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
1500000
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: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Tgt Ion: 136 Resp: 651360

Ion Ratio Lower Upper

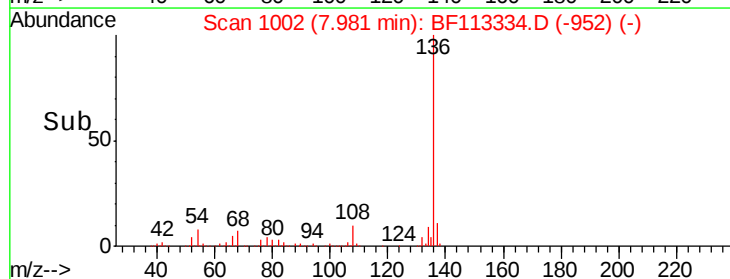
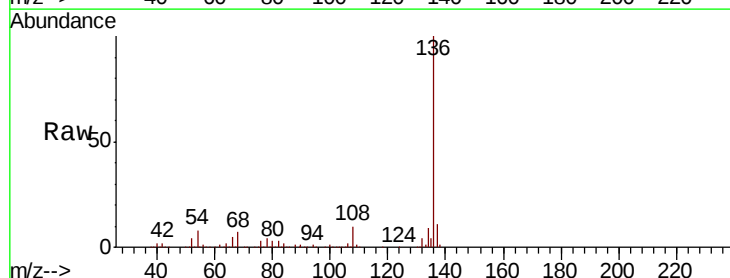
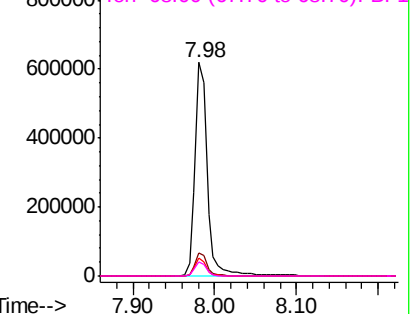
136 100

137 11.0 8.9 13.3

54 8.4 7.0 10.6

68 6.7 4.8 7.2

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





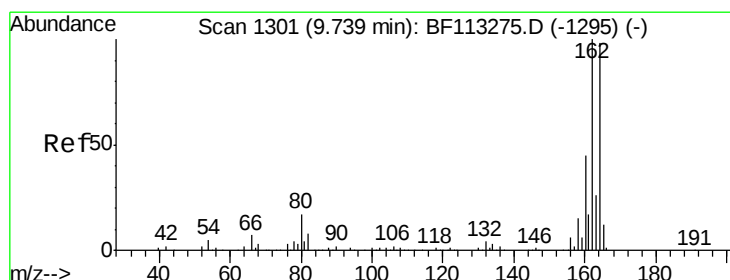
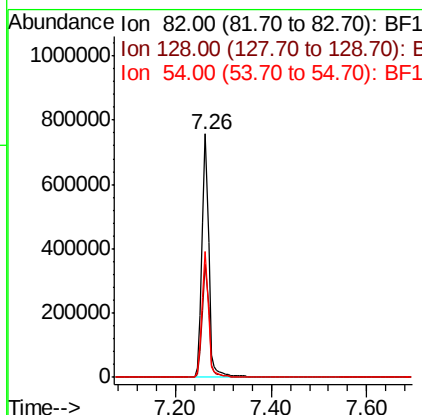
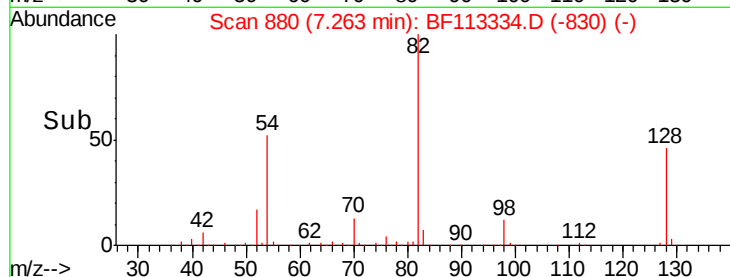
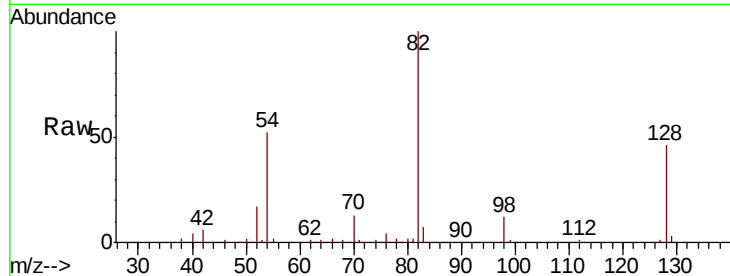
#23
 Nitrobenzene-d5
 Concen: 68.825 ng
 RT: 7.26 min Scan# 880
 Delta R.T. -0.00 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Instrument :
 BNA_F
 ClientSampled :
 CS-14

Tot Ion	82	Resp	755297
Ion Ratio	100	Lower	Upper
128	46.2	36.5	54.7
54	51.5	42.2	63.2

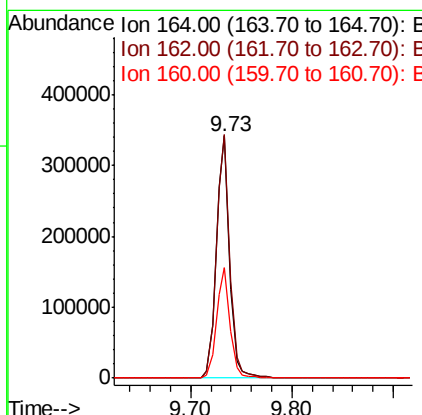
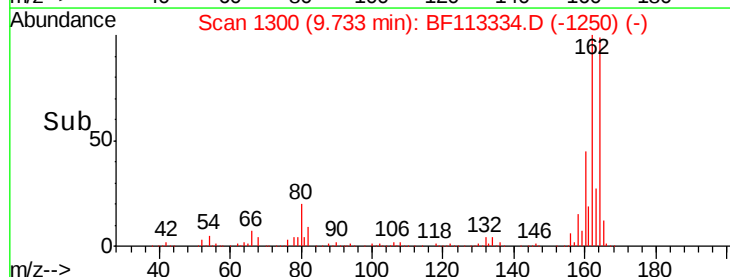
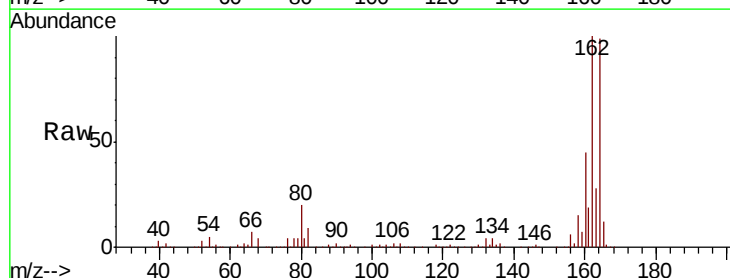
Manual Integrations
 APPROVED

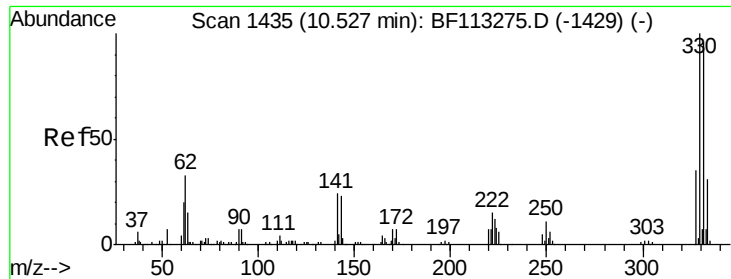
Sohil
 3/29/2019 4:42:09 PM



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.73 min Scan# 1300
 Delta R.T. -0.01 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Tgt Ion	164	Resp	309334
Ion Ratio	100	Lower	Upper
162	100.6	81.8	122.6
160	45.4	36.4	54.6





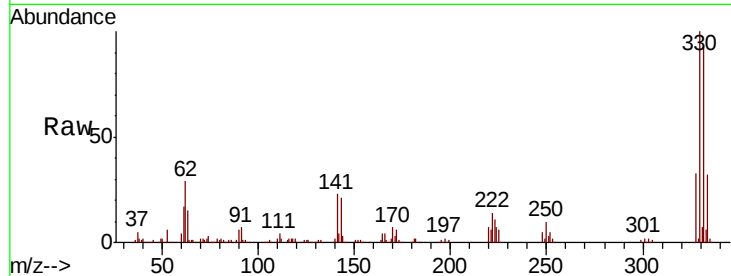
#42
 2,4,6-Tribromophenol
 Concen: 83.576 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Instrument :
 BNA_F
 ClientSampled :
 CS-14

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.6	77.8	116.6
141	28.1	22.7	34.1

Manual Integrations
 APPROVED

Sohil
 3/29/2019 4:42:09 PM

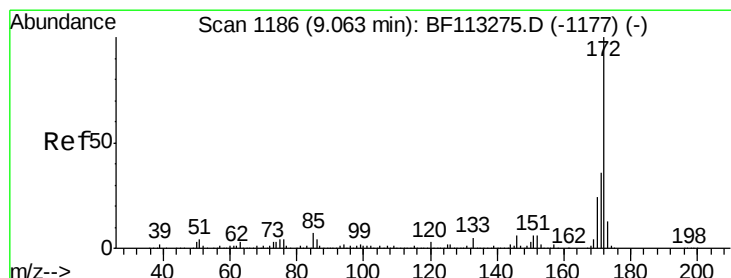
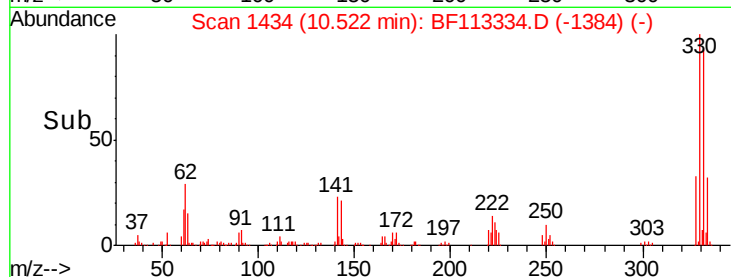
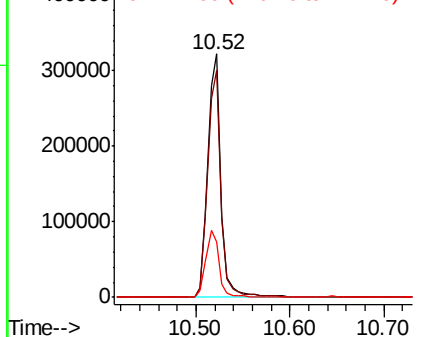


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 67.212 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.00 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

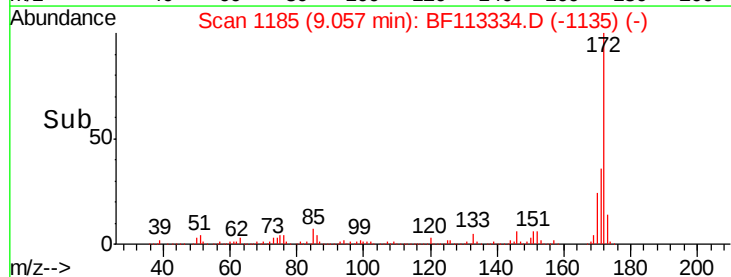
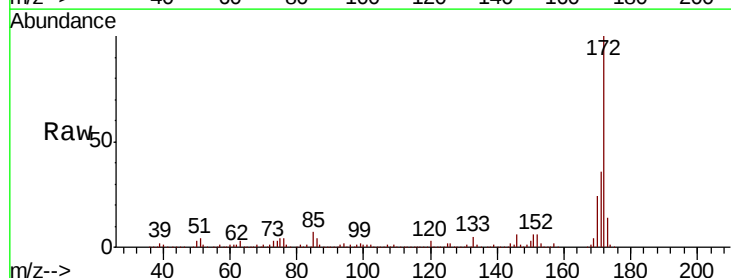
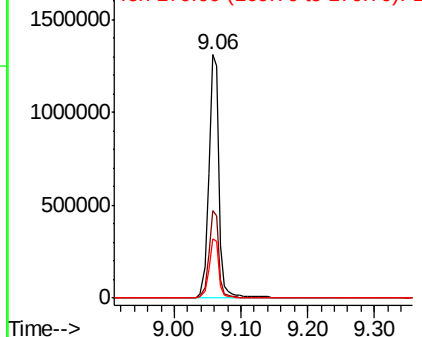
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.6
170	24.1	19.5	29.3

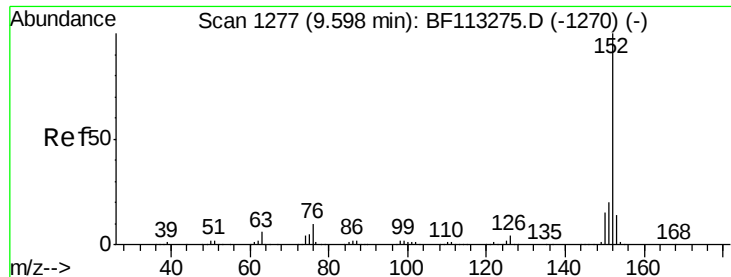
Abundance

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





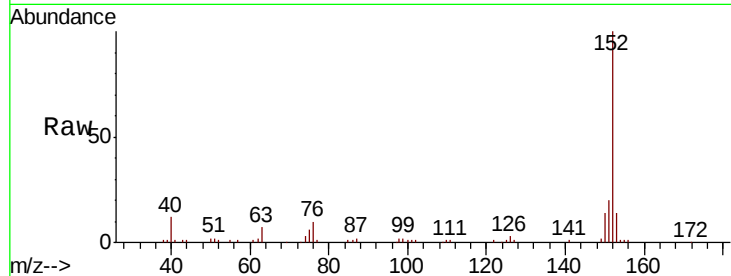
#49
Acenaphthylene
Concen: 2.221 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Instrument :
BNA_F
ClientSampled :
CS-14

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.4
153	14.0	11.0	16.6

Manual Integrations
APPROVED

Sohil
3/29/2019 4:42:09 PM

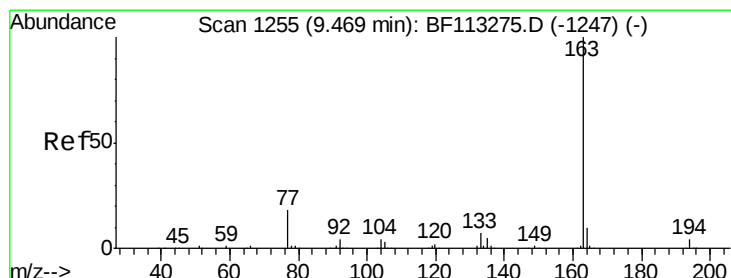
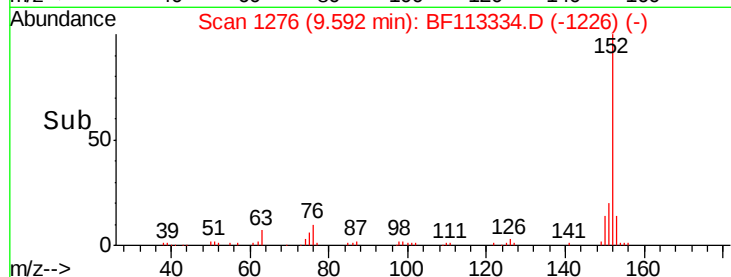
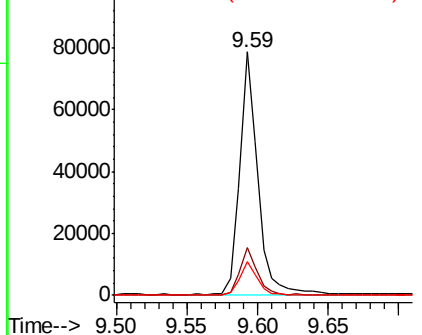


Abundance

Ion 152.00 (151.70 to 152.70): E

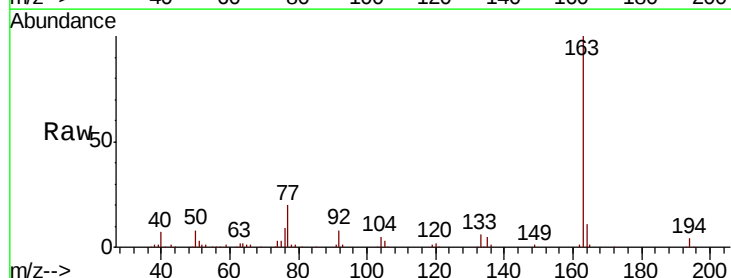
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50
Dimethylphthalate
Concen: 4.926 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.0	4.6
164	10.6	8.1	12.1

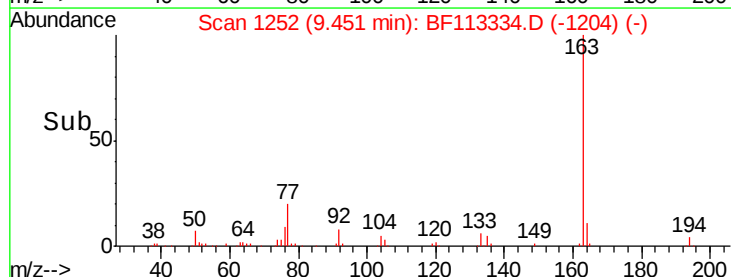
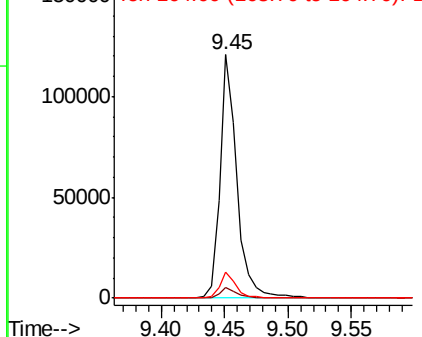


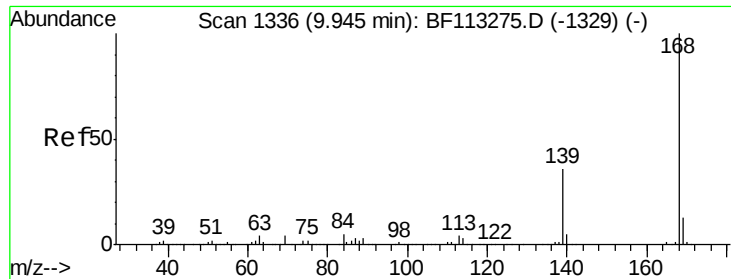
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





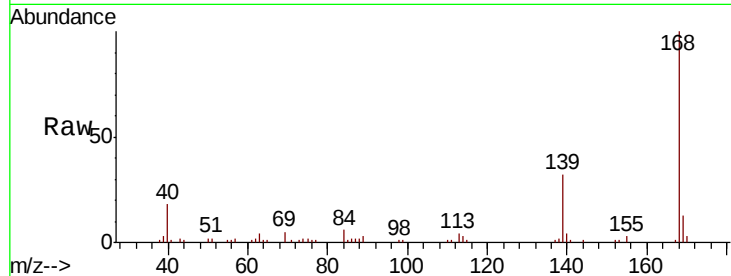
#55
Dibenzenofuran
Concen: 2.015 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Instrument :
BNA_F
ClientSampleId :
CS-14

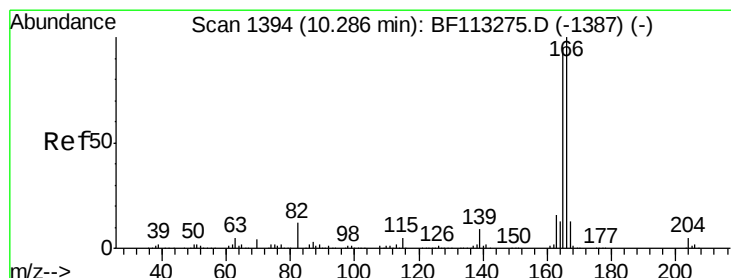
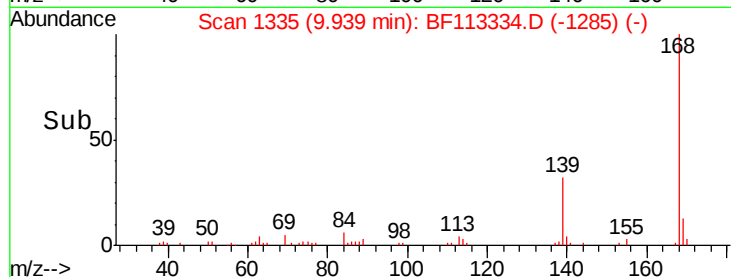
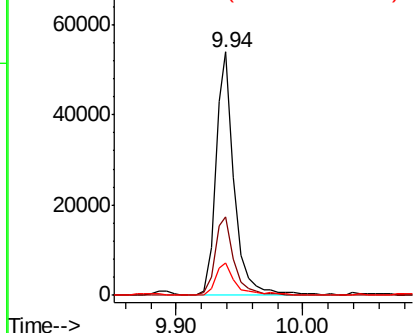
Tot Ion	Ratio	Lower	Upper
168	100		
139	32.5	29.7	44.5
169	13.5	10.7	16.1

Manual Integrations
APPROVED

Sohil
3/29/2019 4:42:09 PM



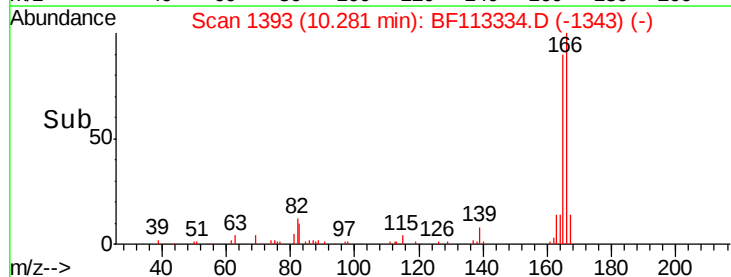
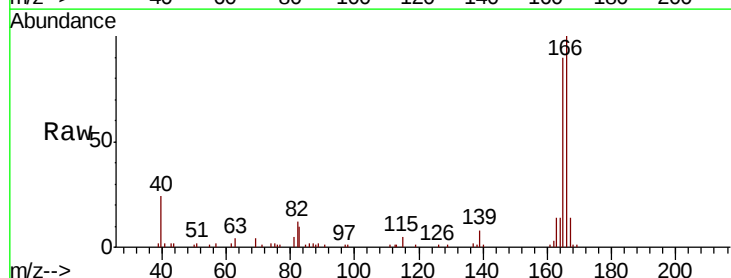
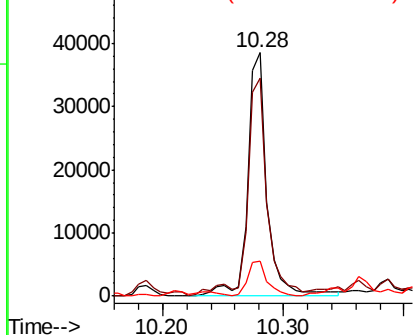
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

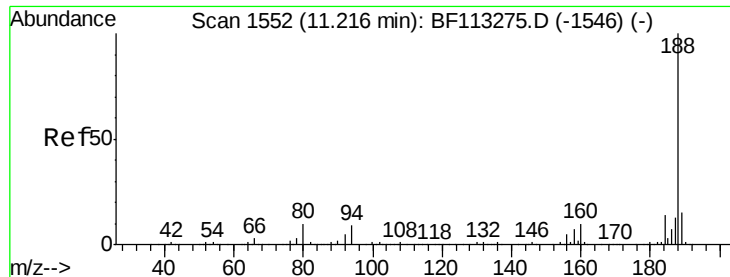


#58
Fluorene
Concen: 2.027 ng
RT: 10.28 min Scan# 1393
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	89.6	76.2	114.2
167	14.1	10.7	16.1

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





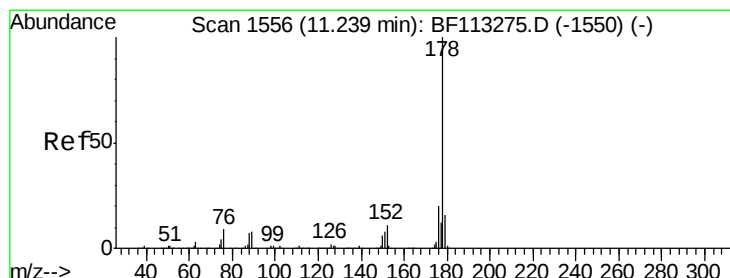
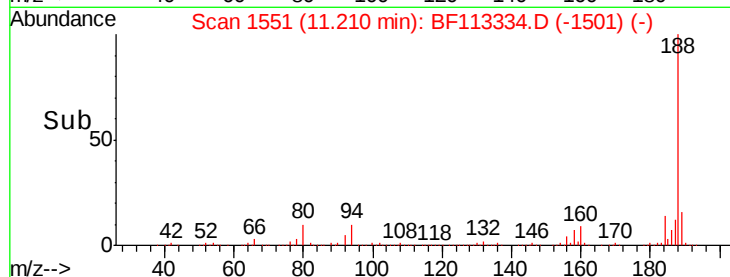
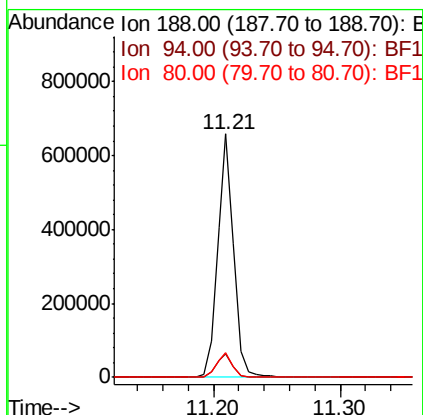
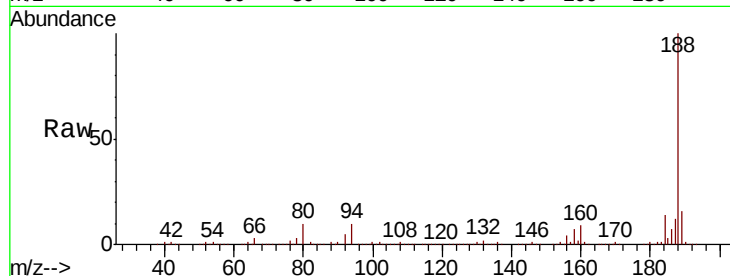
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Instrument :
BNA_F
ClientSampled :
CS-14

Tot Ion	Ratio	Resp	Lower	Upper
188	100	580952		
94	9.5		7.0	10.6
80	10.2		7.7	11.5

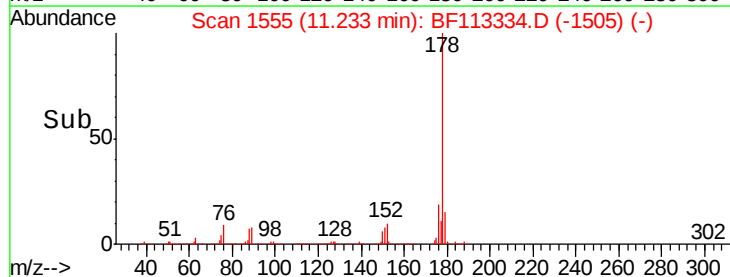
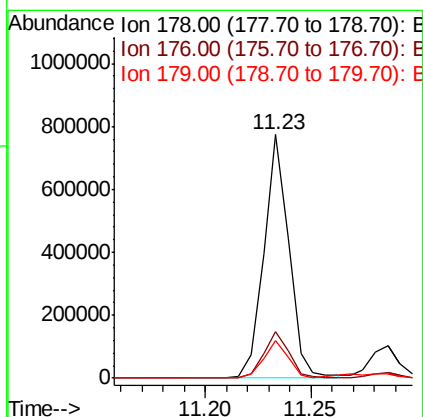
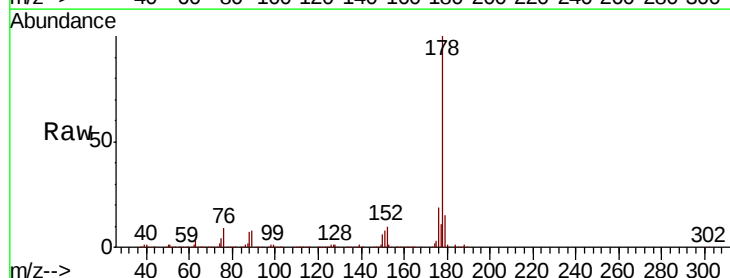
Manual Integrations
APPROVED

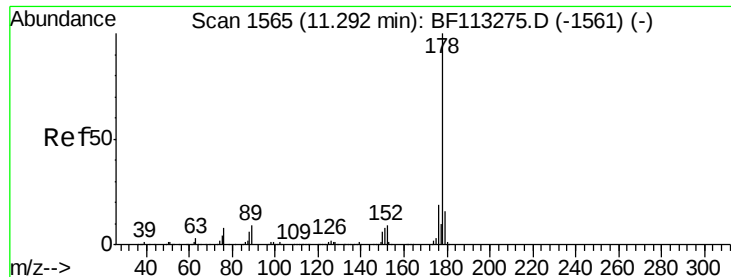
Sohil
3/29/2019 4:42:09 PM



#71
Phenanthrene
Concen: 22.093 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	637400		
176	19.1		16.2	24.2
179	15.4		12.7	19.1





#72

Anthracene

Concen: 3.735 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Instrument :

BNA_F

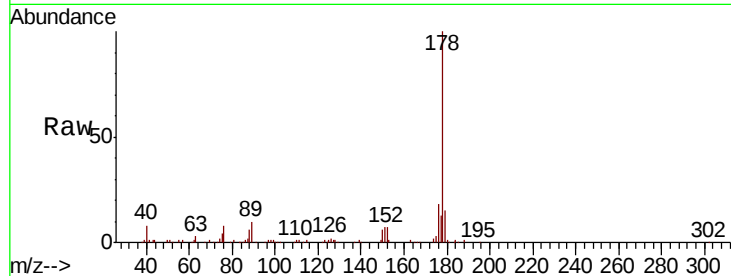
ClientSampled :

CS-14

Tot Ion:	178	Resp:	109460
Ion Ratio	Lower	Upper	
178	100		
176	18.0	15.4	23.2
179	15.0	12.8	19.2

Manual Integrations
APPROVED

Sohil
3/29/2019 4:42:09 PM

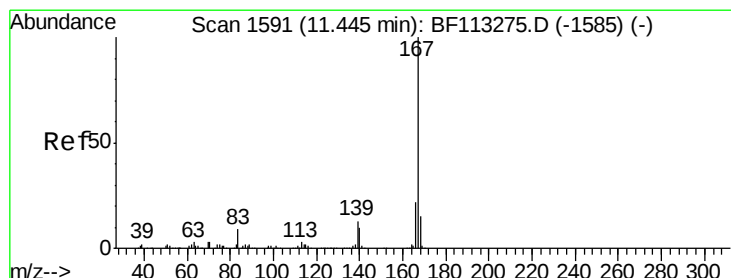
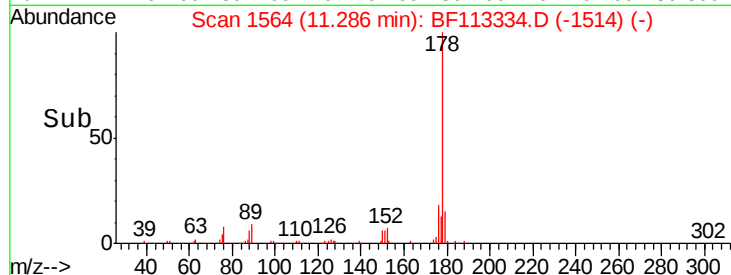
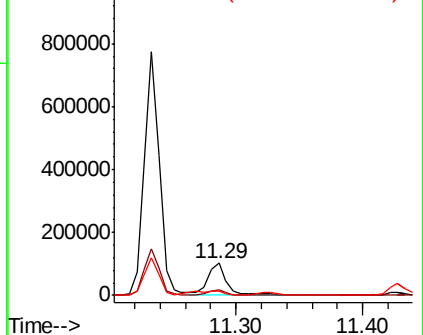


Abundance

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: 4.444 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

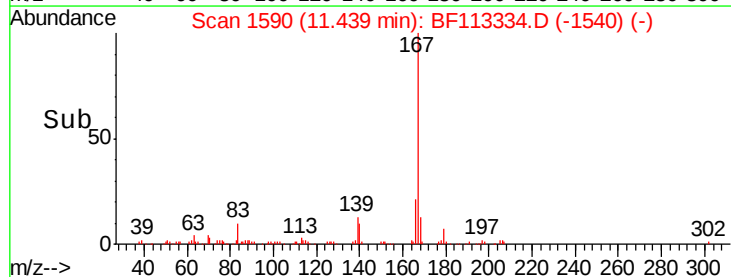
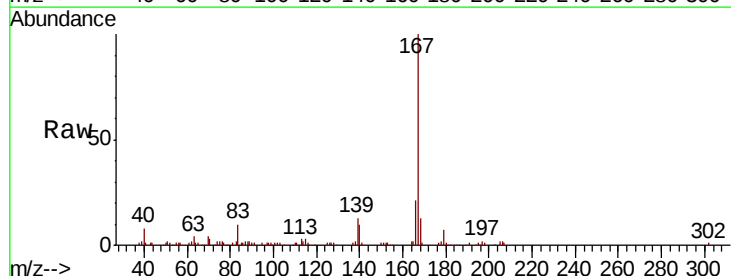
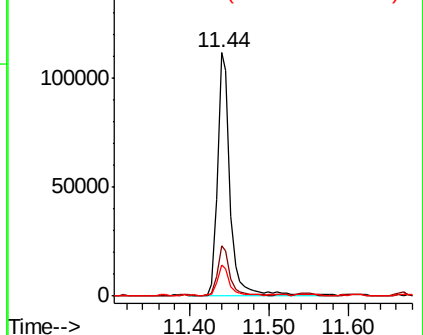
Tgt Ion:	167	Resp:	124265
Ion Ratio	Lower	Upper	
167	100		
166	20.7	17.4	26.0
139	12.5	10.4	15.6

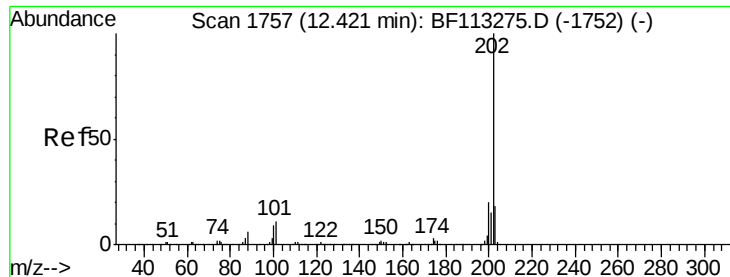
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 60.483 ng

RT: 12.42 min Scan# 1757

Delta R.T. 0.00 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Instrument :

BNA_F

ClientSampled :

CS-14

Tot Ion:202 Resp: 1972619

Ion Ratio Lower Upper

202 100

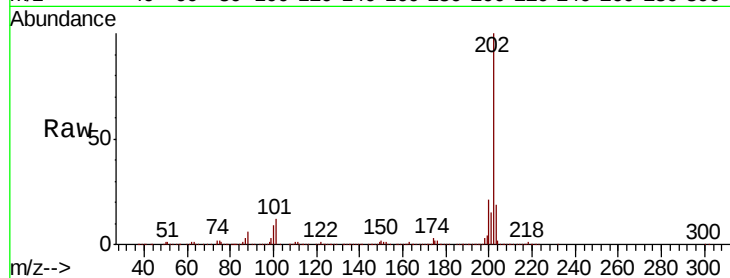
101 12.4 0.0 31.4

203 18.8 0.0 38.0

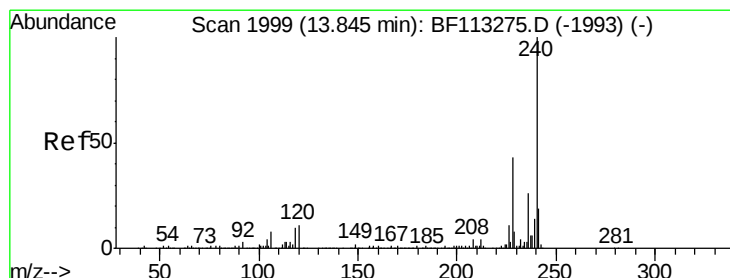
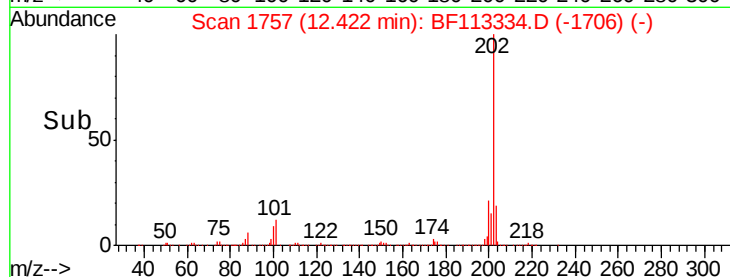
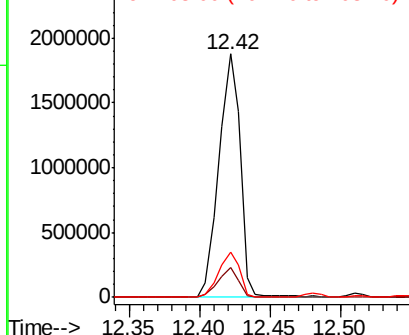
Manual Integrations
APPROVED

Sohil

3/29/2019 4:42:09 PM



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

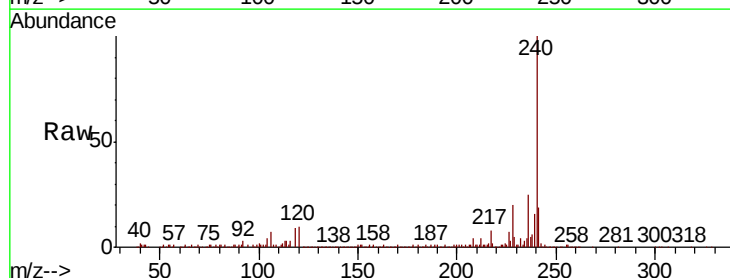
Tgt Ion:240 Resp: 396850

Ion Ratio Lower Upper

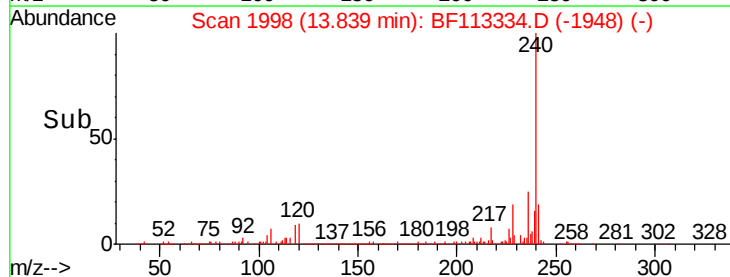
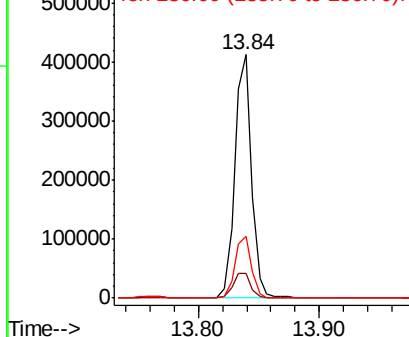
240 100

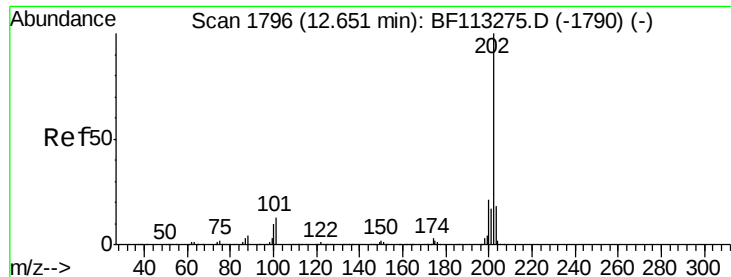
120 10.3 8.8 13.2

236 25.2 20.9 31.3



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

Pvrene

Concen: 54.581 ng

RT: 12.65 min Scan# 1796

Delta R.T. 0.00 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Instrument :

BNA_F

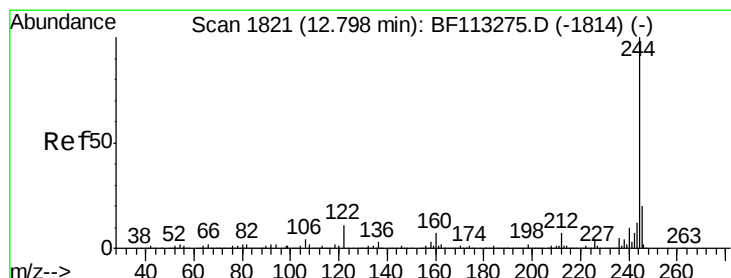
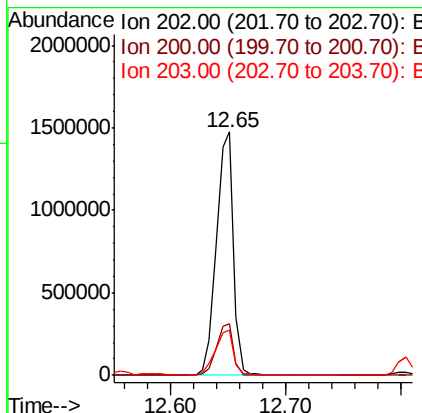
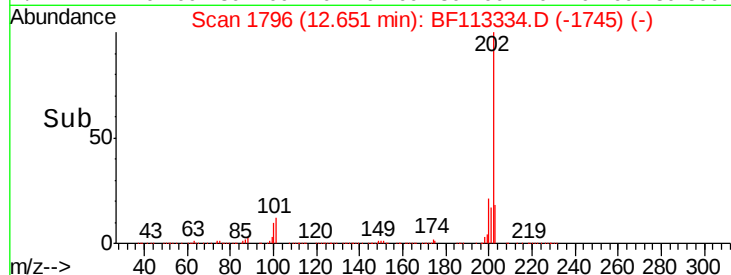
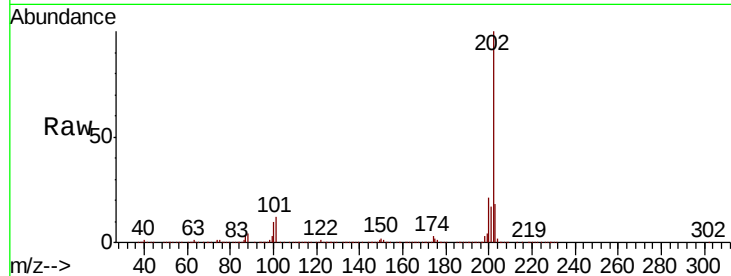
ClientSampleId :

CS-14

Tot Ion:	202	Resp:	1501001
Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	18.4	14.4	21.6

Manual Integrations
APPROVED

Sohil
3/29/2019 4:42:09 PM



#79

Terphenyl-d14

Concen: 68.632 ng

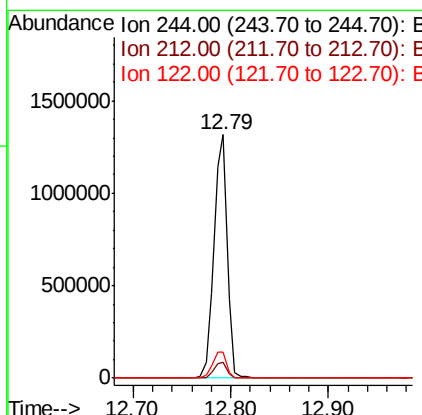
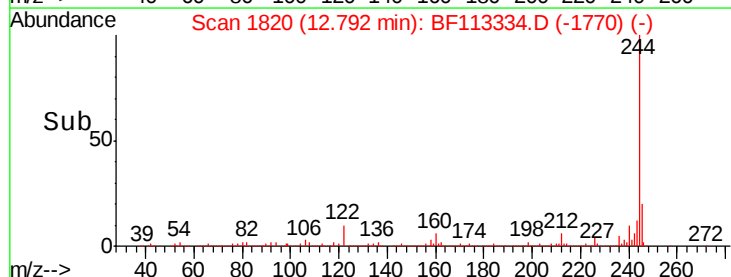
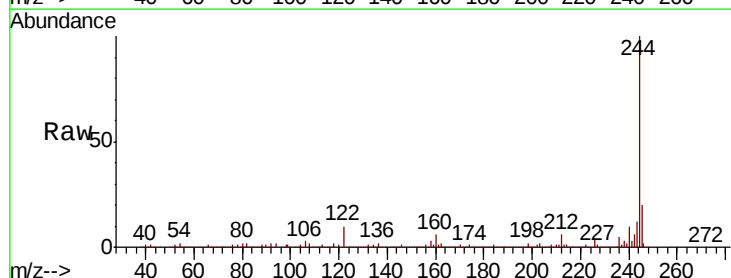
RT: 12.79 min Scan# 1820

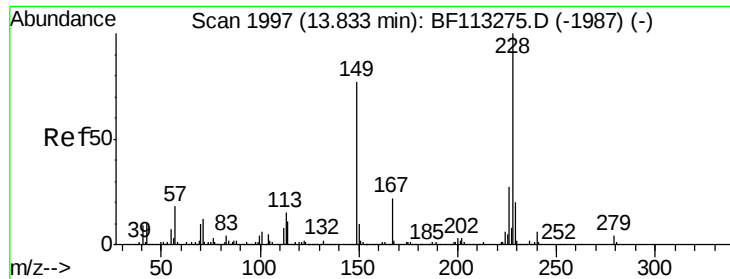
Delta R.T. -0.00 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Tgt Ion:	244	Resp:	1235679
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.5	8.3
122	10.4	8.6	13.0





#81

Benzo(a)anthracene

Concen: 9.947 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Instrument :

BNA_F

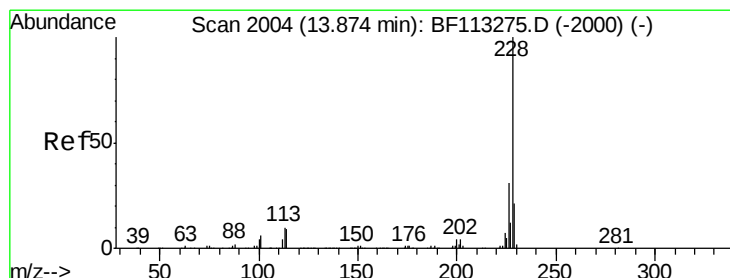
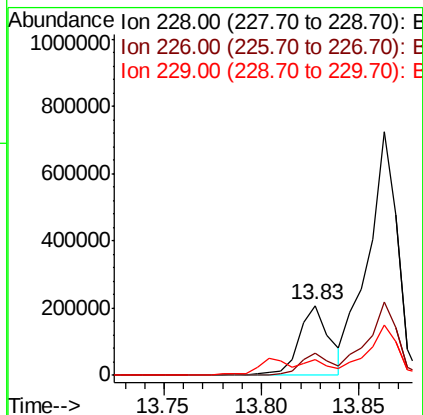
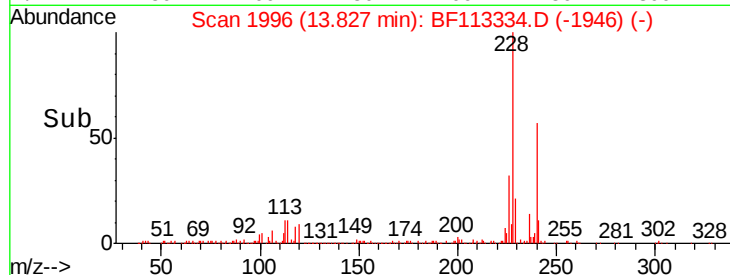
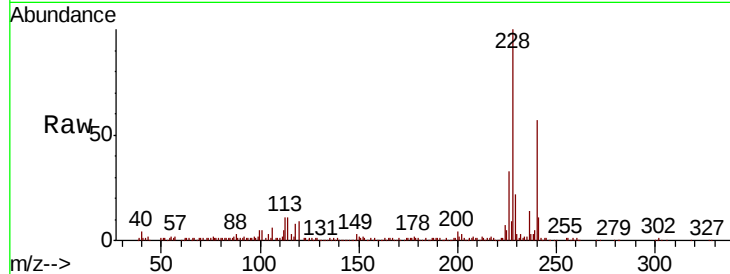
ClientSampled :

CS-14

Tot Ion:	228	Resp:	225953
Ion Ratio	Lower	Upper	
228	100		
226	32.6	21.8	32.8
229	21.8	16.2	24.4

Manual Integrations
APPROVED

Sohil
3/29/2019 4:42:09 PM



#83

Chrysene

Concen: 32.946 ng

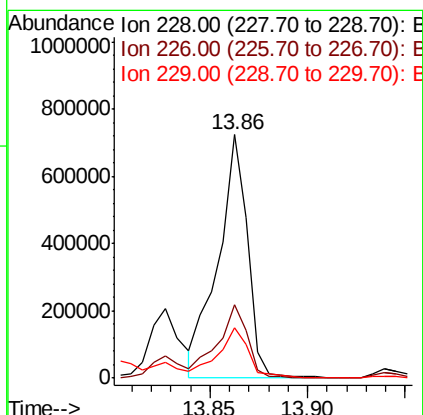
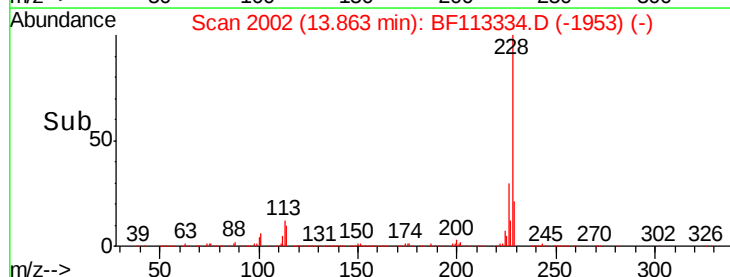
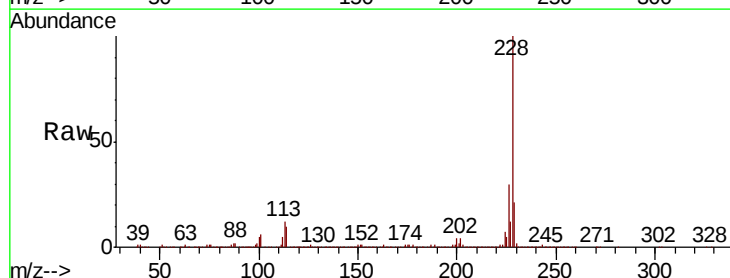
RT: 13.86 min Scan# 2002

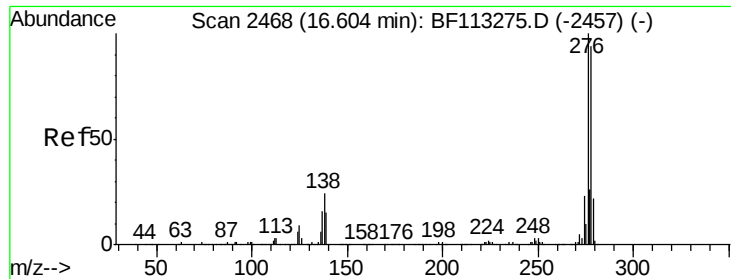
Delta R.T. -0.01 min

Lab File: BF113334.D

Acq: 27 Mar 2019 16:47

Tgt Ion:	228	Resp:	760178
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.3	36.5
229	20.9	16.3	24.5





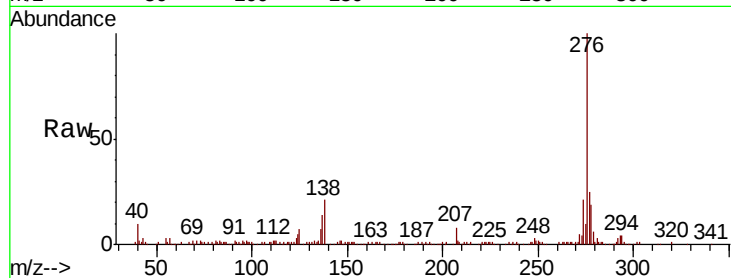
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 9.531 ng
 RT: 16.59 min Scan# 2465
 Delta R.T. -0.02 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Instrument :
 BNA_F
 ClientSampled :
 CS-14

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.3	18.1	27.1
277	23.0	20.2	30.4

Manual Integrations
 APPROVED

Sohil
 3/29/2019 4:42:09 PM

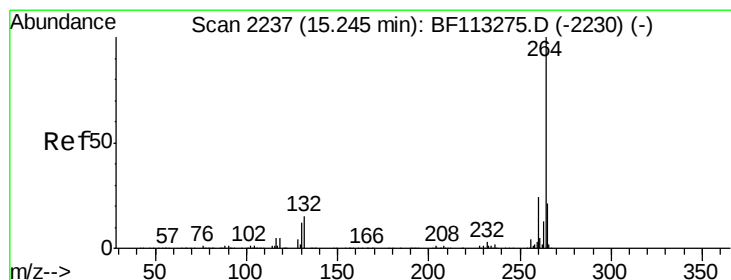
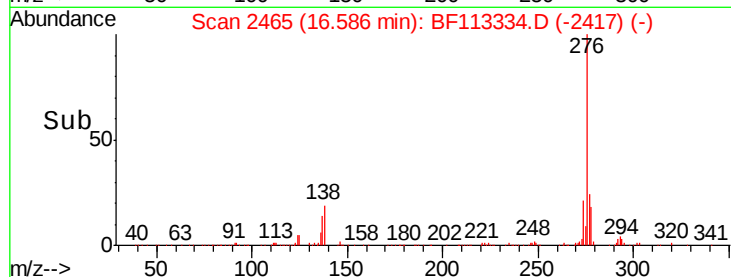
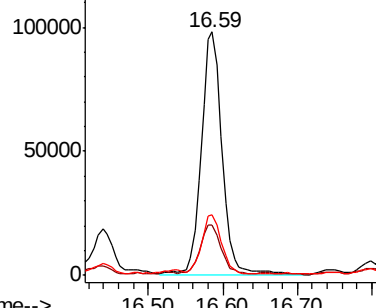


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.24 min Scan# 2236
 Delta R.T. -0.01 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

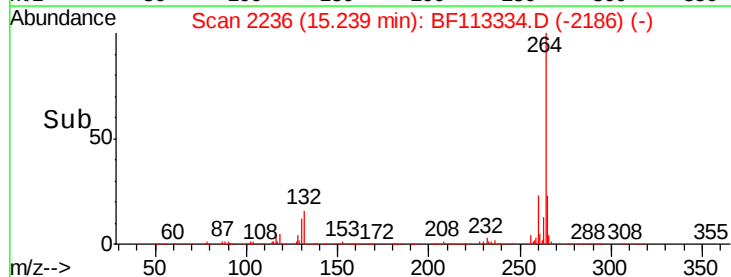
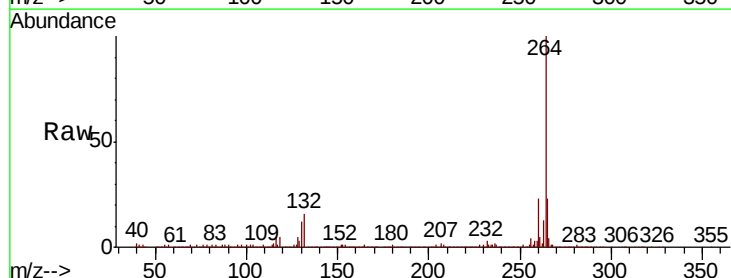
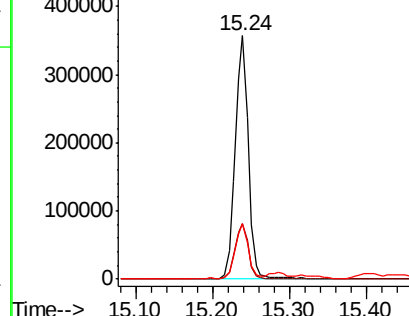
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.1	28.7
265	22.8	17.1	25.7

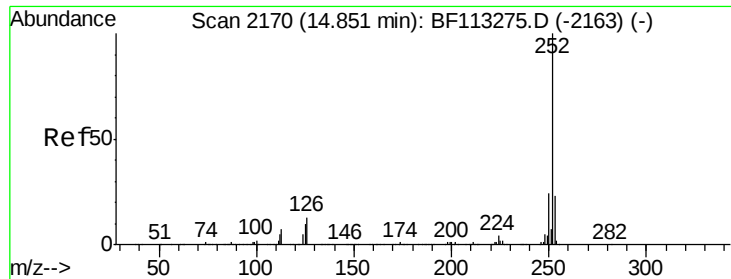
Abundance

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





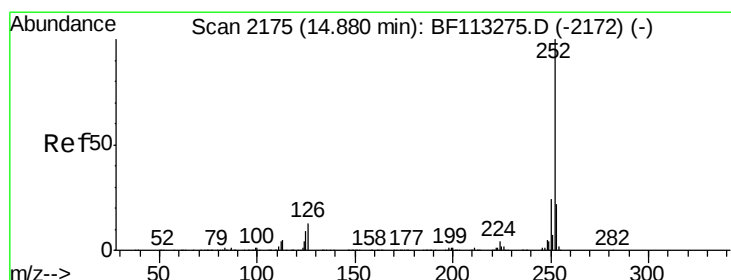
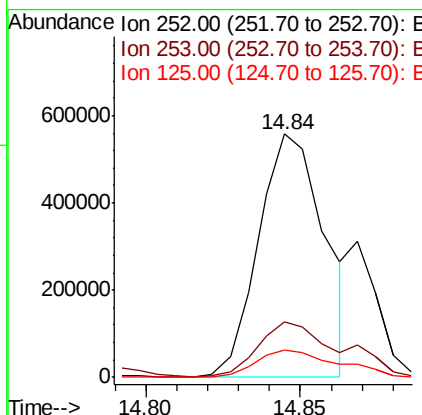
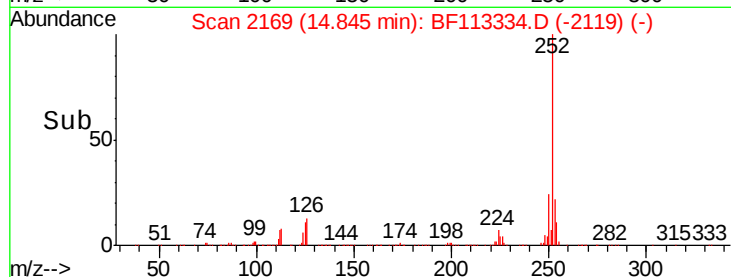
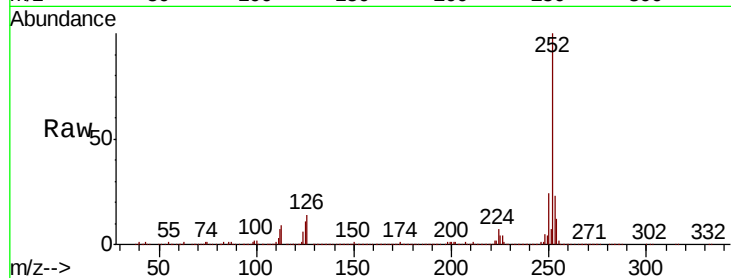
#88
Benzo(b)fluoranthene
Concen: 31.049 ng m
RT: 14.84 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Instrument :
BNA_F
ClientSampleId :
CS-14

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.3	7.6	11.4

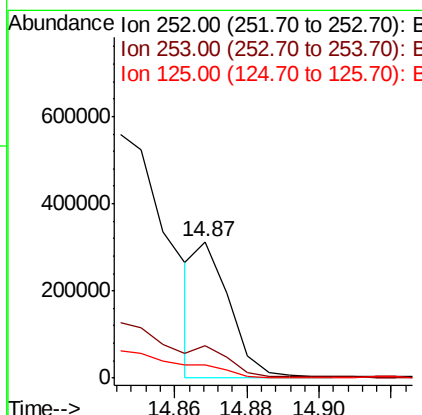
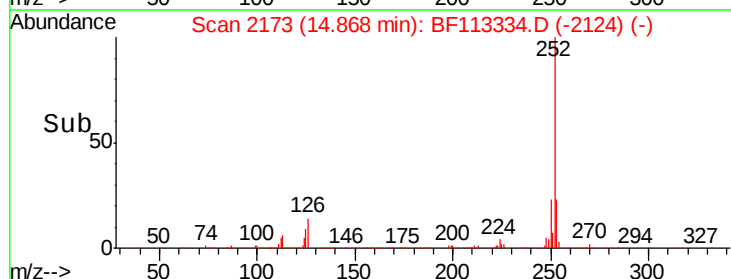
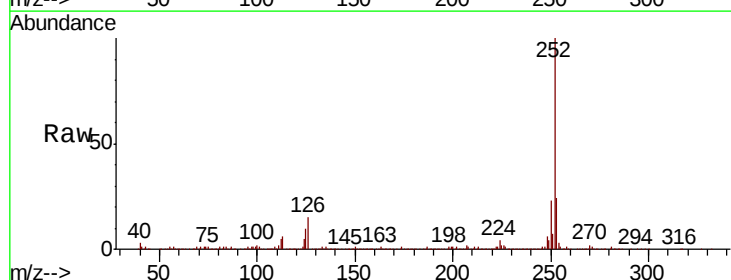
Manual Integrations
APPROVED

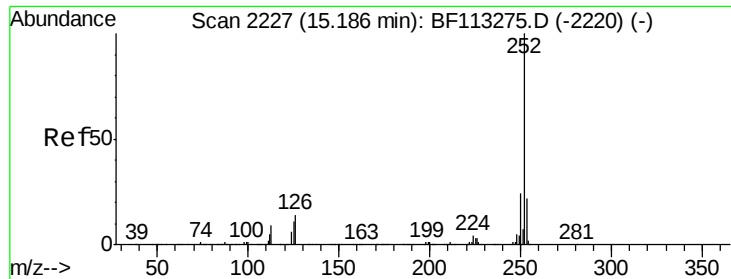
Sohil
3/29/2019 4:42:09 PM



#89
Benzo(k)fluoranthene
Concen: 8.812 ng m
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.7	26.5
125	10.0	7.3	10.9





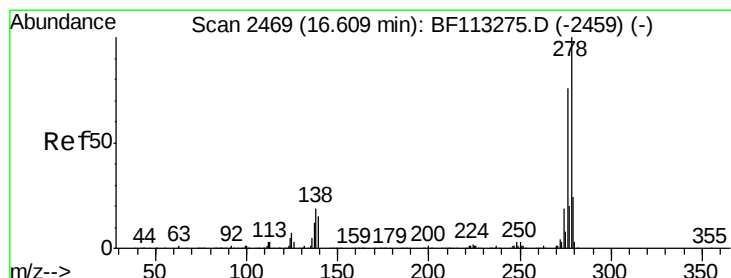
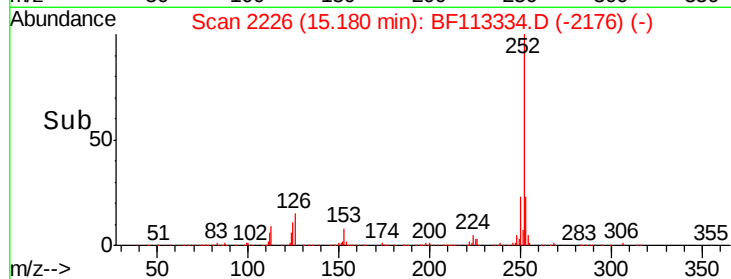
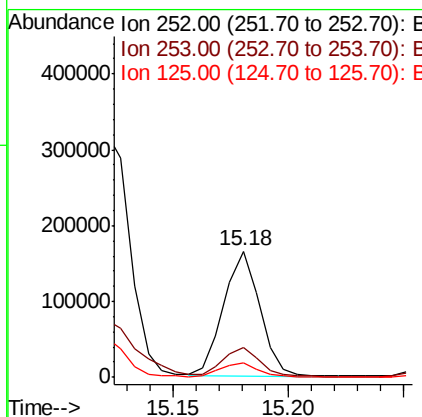
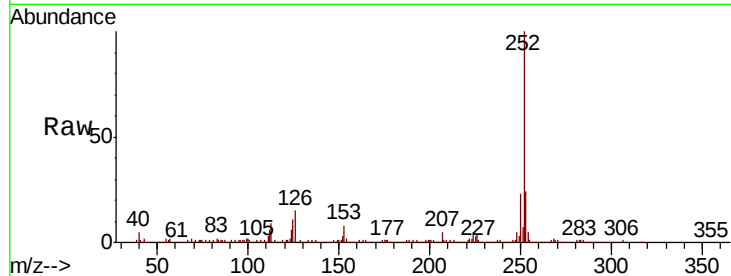
#90
Benzo(a)pyrene
Concen: 7.700 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Instrument :
BNA_F
ClientSampled :
CS-14

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	11.1	8.8	13.2

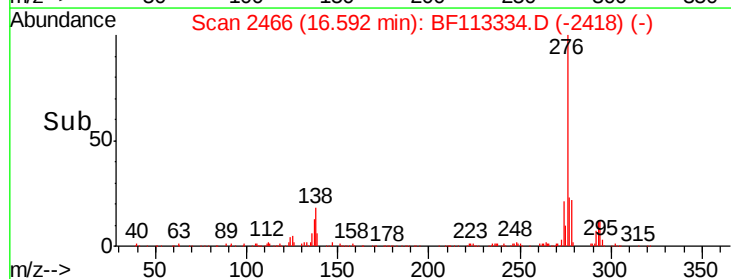
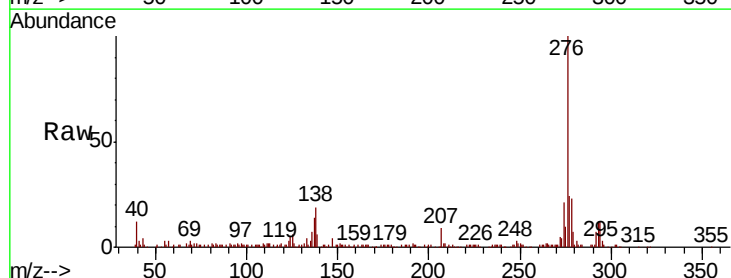
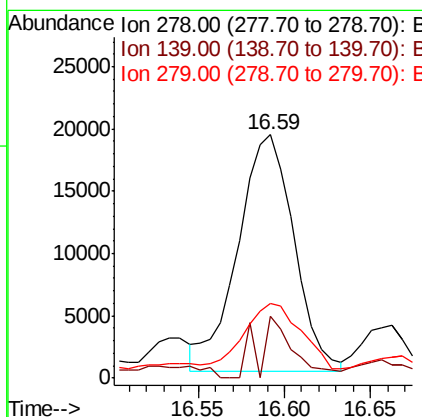
Manual Integrations
APPROVED

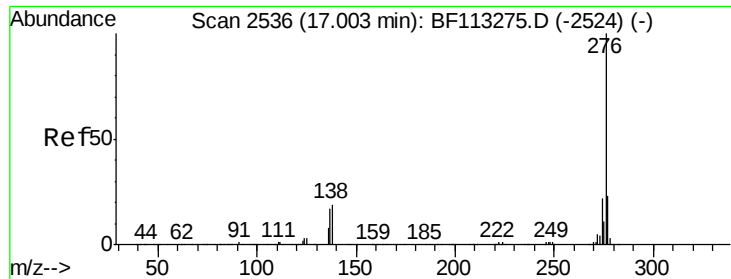
Sohil
3/29/2019 4:42:09 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.101 ng m
RT: 16.59 min Scan# 2466
Delta R.T. -0.02 min
Lab File: BF113334.D
Acq: 27 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.5	12.0	18.0#
279	30.4	19.0	28.6#





#92
 Benzo(a,h,i)perylene
 Concen: 8.116 ng
 RT: 16.99 min Scan# 2533
 Delta R.T. -0.02 min
 Lab File: BF113334.D
 Acq: 27 Mar 2019 16:47

Instrument :
 BNA_F
 ClientSampleId :
 CS-14

Tot Ion:	276	Resp:	167597
Ion Ratio		Lower	Upper
276	100		
277	22.7	18.8	28.2
138	21.1	15.6	23.4

Manual Integrations
 APPROVED

Sohil
 3/29/2019 4:42:09 PM

