

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\
 Data File : BF112906.D
 Acq On : 7 Mar 2019 3:00
 Operator : JU/SJ
 Sample : K1705-10
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW012-022719

Manual Integrations
 APPROVED

Sohil
 3/7/2019 11:02:57 AM

Quant Time: Mar 07 05:43:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	358504	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	1324110	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	560002	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	971459	20.00	ng	0.00
76) Chrysene-d12	13.87	240	935413	20.00	ng	0.00
87) Perylene-d12	15.27	264	1016988	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	967040	41.96	ng	0.00
7) Phenol-d6	6.36	99	1222506	42.23	ng	0.00
23) Nitrobenzene-d5	7.29	82	724221	32.73	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	283414	47.67	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	1141955	27.97	ng	-0.01
79) Terphenyl-d14	12.82	244	1054473	21.85	ng	-0.01

Target Compounds					Qvalue	
50) Dimethylphthalate	9.48	163	90754	2.198	ng	99
52) Acenaphthene	9.79	154	119396	3.372	ng	96
55) Dibenzofuran	9.96	168	143782	2.794	ng	95
58) Fluorene	10.30	166	116090	3.178	ng	99
71) Phenanthrene	11.26	178	1254440	25.954	ng	99
72) Anthracene	11.31	178	381395	7.538	ng	98
73) Carbazole	11.46	167	122554	2.483	ng	97
75) Fluoranthene	12.45	202	1343462	25.944	ng	99
78) Pyrene	12.67	202	1182991	15.002	ng	99
81) Benzo(a)anthracene	13.85	228	780967	12.046	ng	99
83) Chrysene	13.89	228	680021	10.708	ng	97
86) Indeno(1,2,3-cd)pyrene	16.62	276	220862	4.080	ng	# 92
88) Benzo(b)fluoranthene	14.87	252	743781m	11.307	ng	
89) Benzo(k)fluoranthene	14.89	252	278669m	4.677	ng	
90) Benzo(a)pyrene	15.21	252	524396	9.013	ng	98
92) Benzo(g,h,i)perylene	17.02	276	170933	3.429	ng	98

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

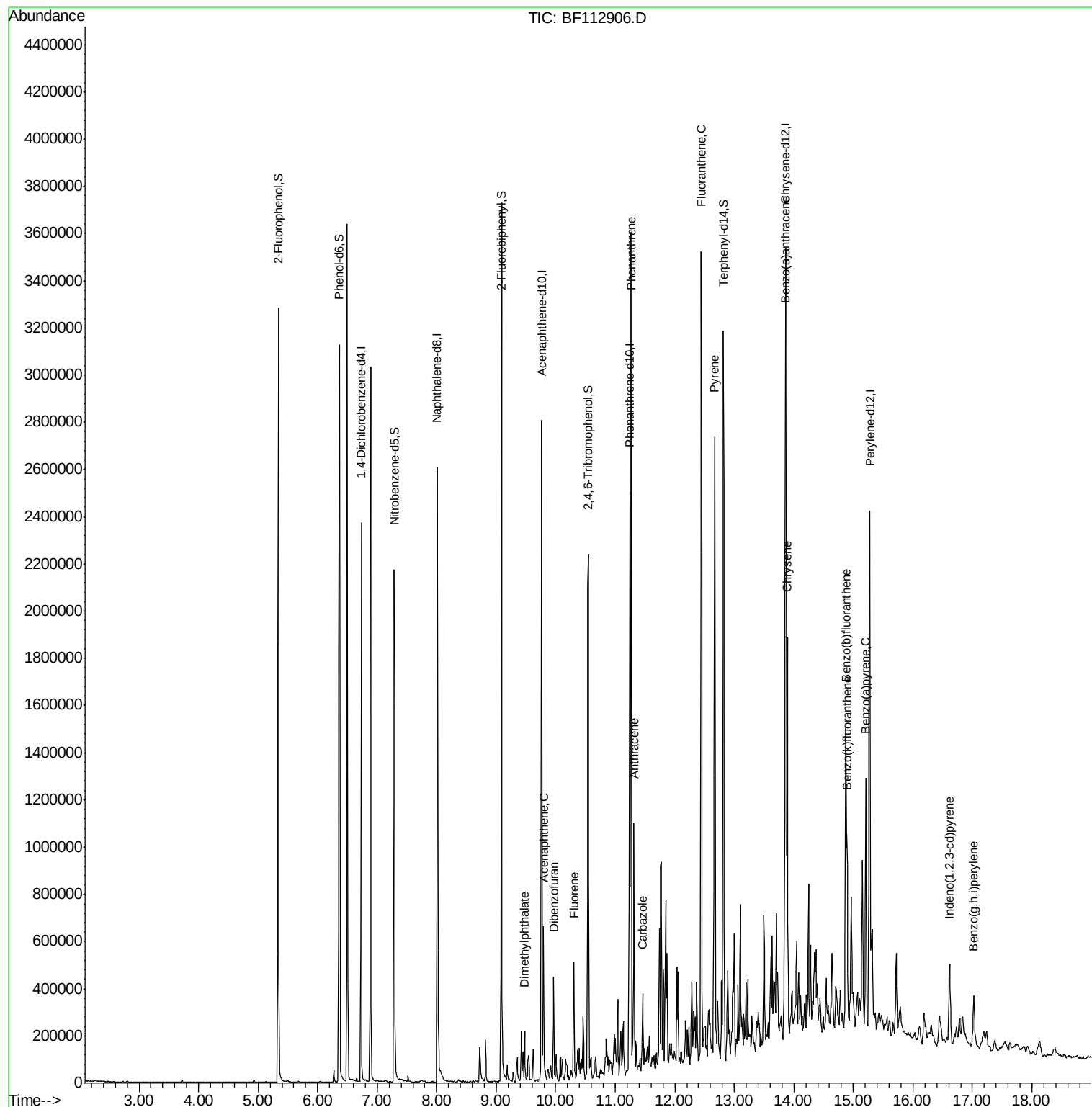
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\
Data File : BF112906.D
Acq On : 7 Mar 2019 3:00
Operator : JU/SJ
Sample : K1705-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

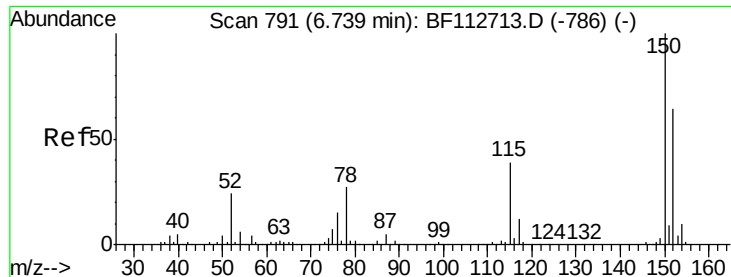
Instrument :
BNA_F
ClientSampleId :
EXT-027-SW012-022719

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM

Quant Time: Mar 07 05:43:00 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 01 15:40:43 2019
Response via : Initial Calibration





#1

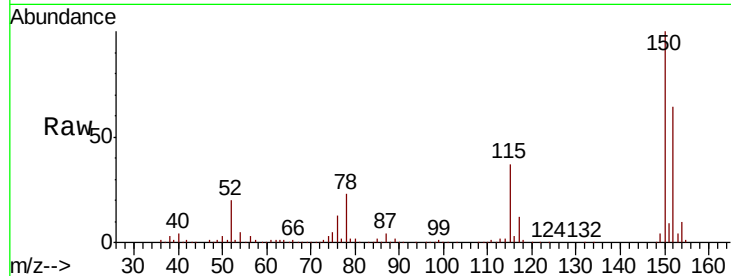
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW012-022719

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.2	186.2
115	57.6	48.2	72.4

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM

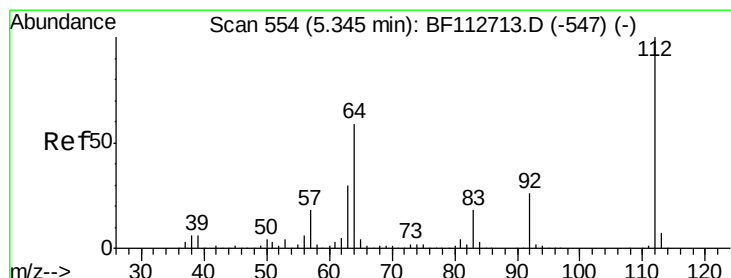
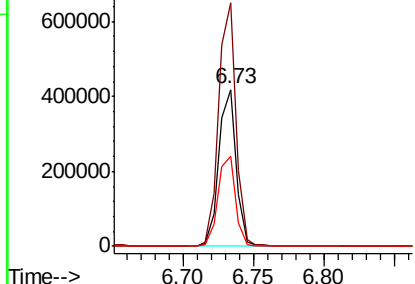
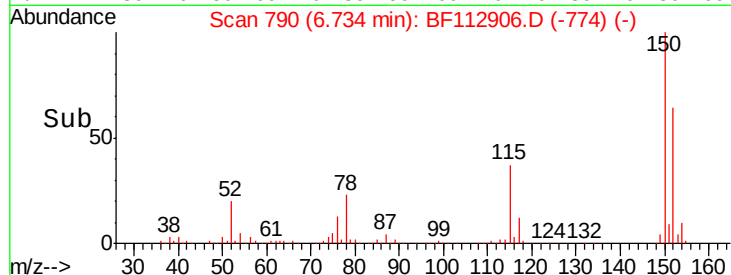


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

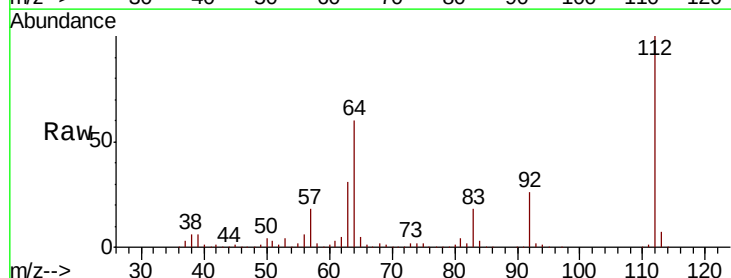
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 41.960 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.1	47.6	71.4
63	30.6	24.4	36.6

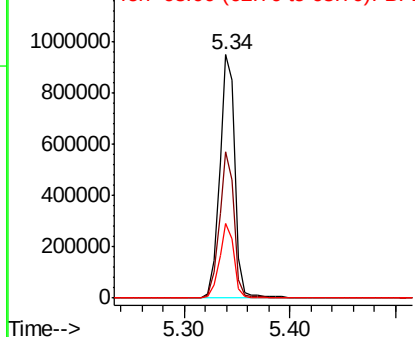
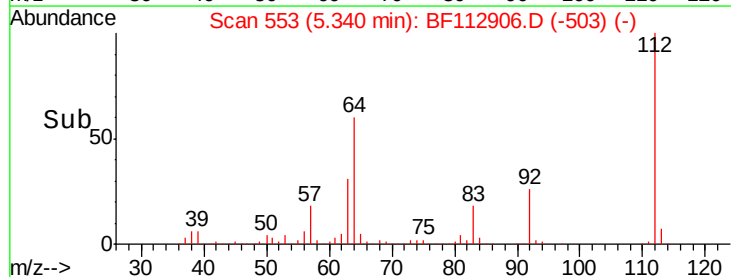


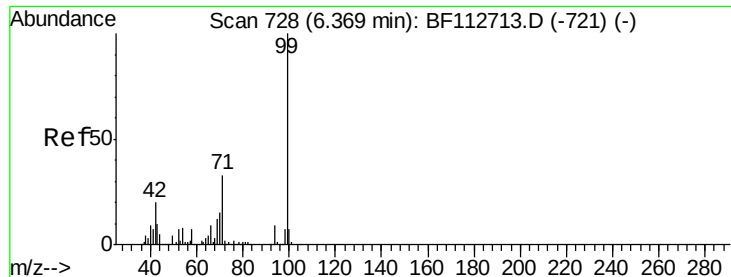
Abundance

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: 42.227 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW012-022719

Tot Ion: 99 Resp: 1222506

Ion Ratio Lower Upper

99 100

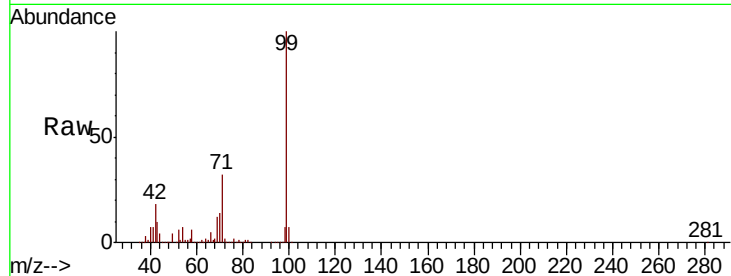
42 18.4 16.3 24.5

71 31.8 26.2 39.4

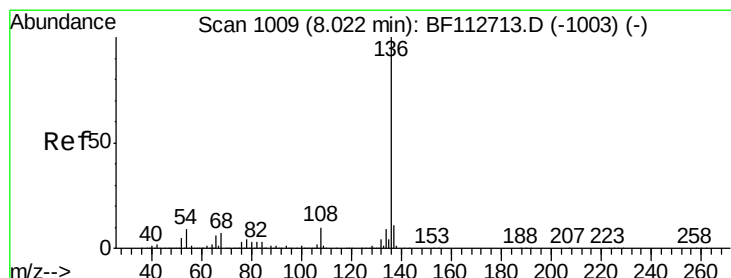
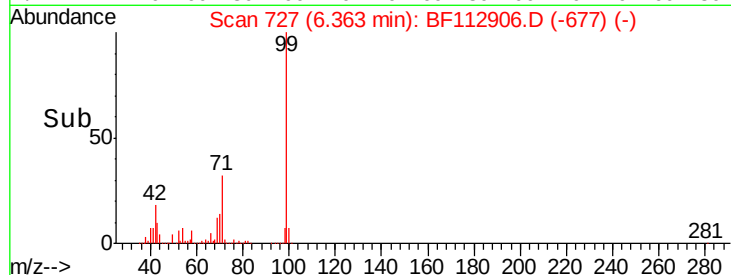
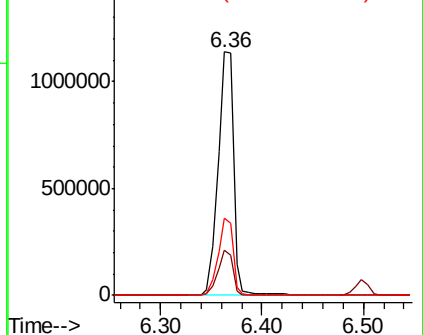
Manual Integrations
APPROVED

Sohil

3/7/2019 11:02:57 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: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Tgt Ion: 136 Resp: 1324110

Ion Ratio Lower Upper

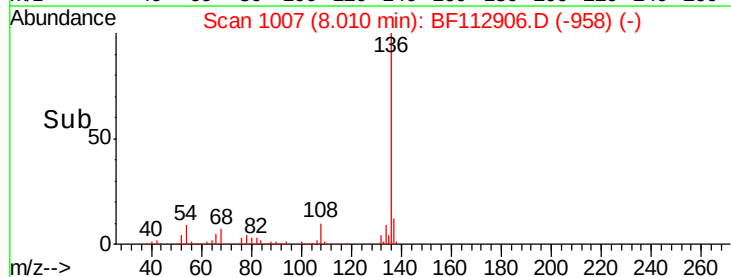
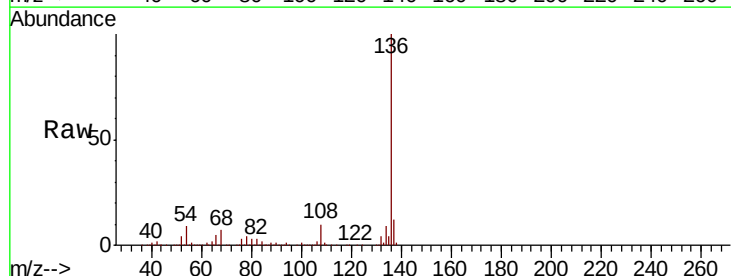
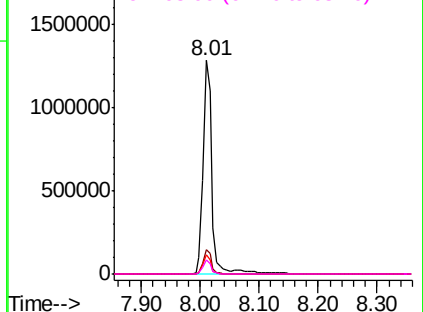
136 100

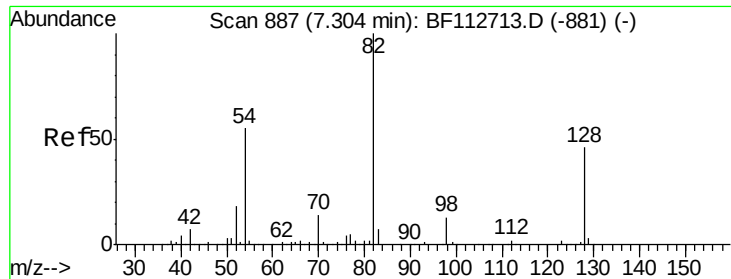
137 11.7 8.9 13.3

54 8.8 7.3 10.9

68 6.8 5.4 8.2

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





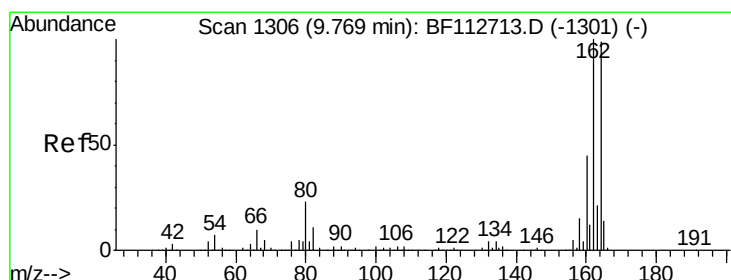
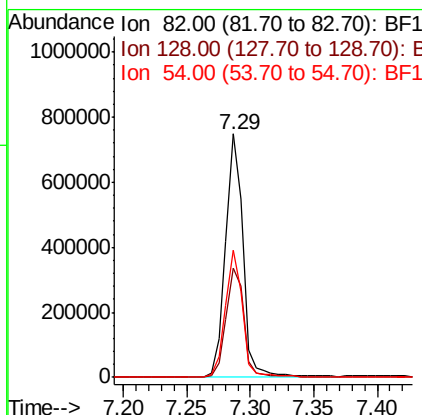
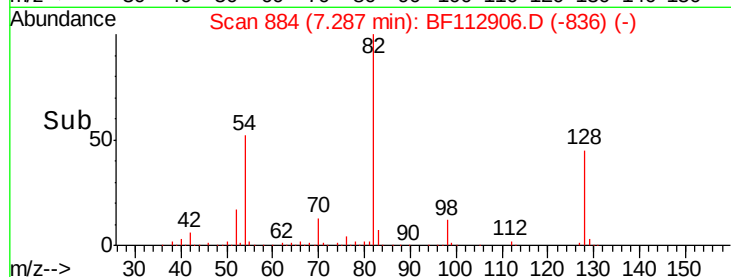
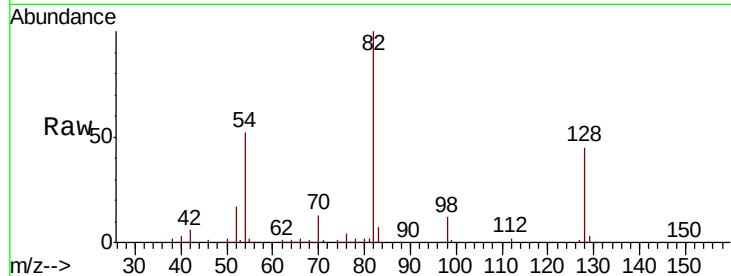
#23
Nitrobenzene-d5
Concen: 32.728 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW012-022719

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.3	54.5
54	52.3	43.7	65.5

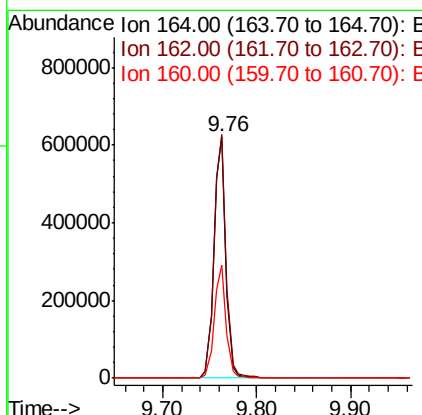
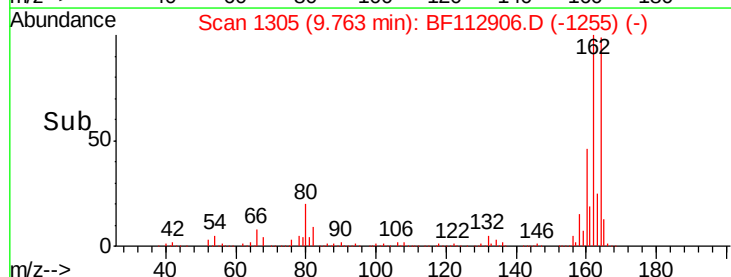
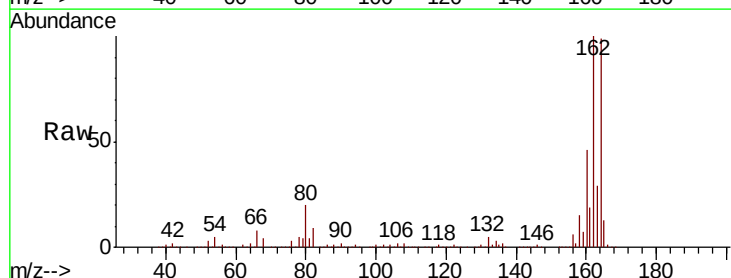
Manual Integrations
APPROVED

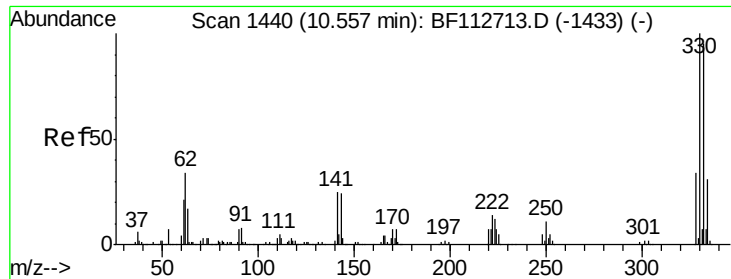
Sohil
3/7/2019 11:02:57 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.6	120.8
160	46.6	36.0	54.0





#42

2,4,6-Tribromophenol

Concen: 47.672 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

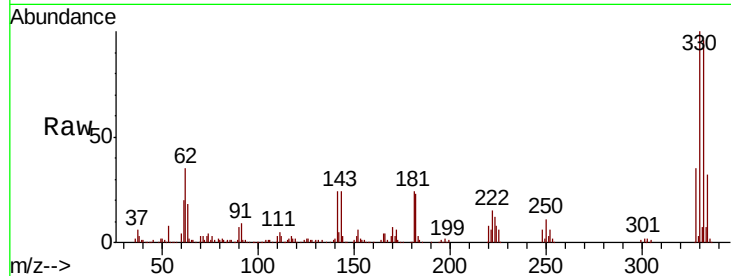
ClientSampleId :

EXT-027-SW012-022719

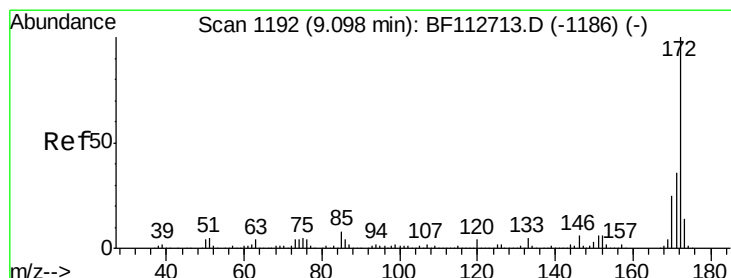
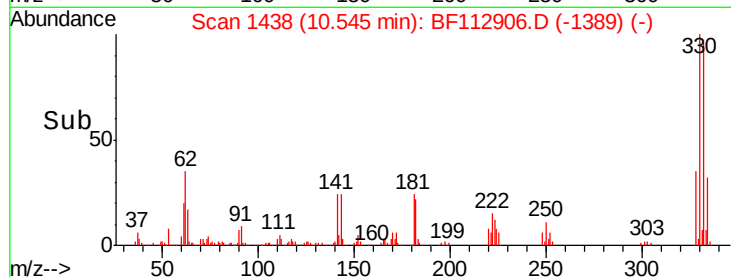
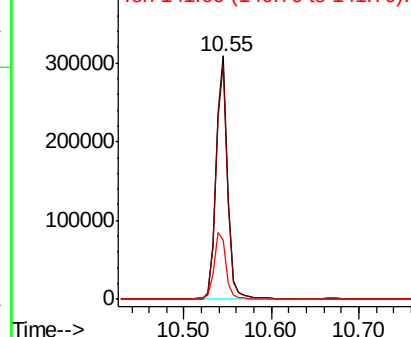
Tot Ion:	330	Resp:	283414
Ion Ratio	Lower	Upper	
330	100		
332	96.6	76.2	114.4
141	29.8	27.0	40.6

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM



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: 27.967 ng

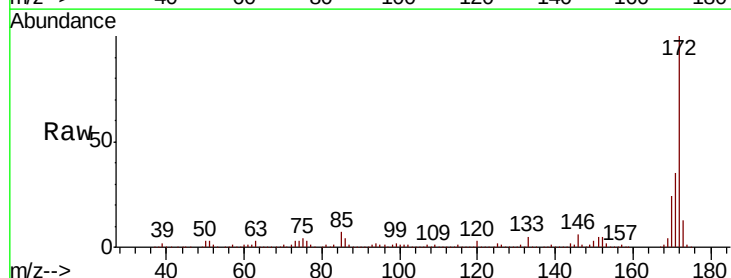
RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

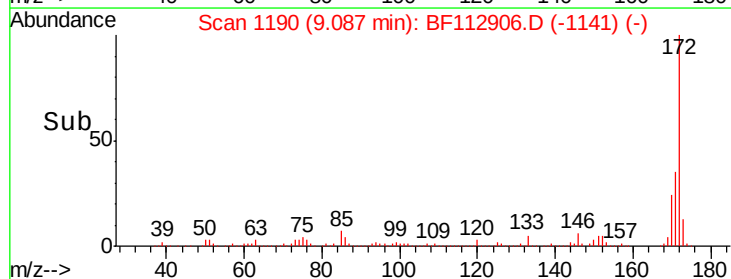
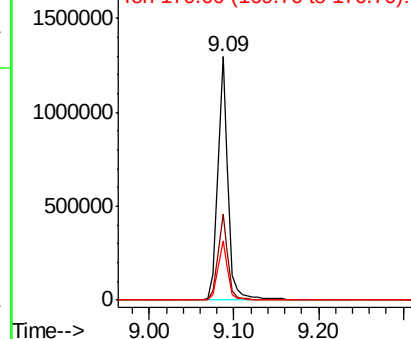
Lab File: BF112906.D

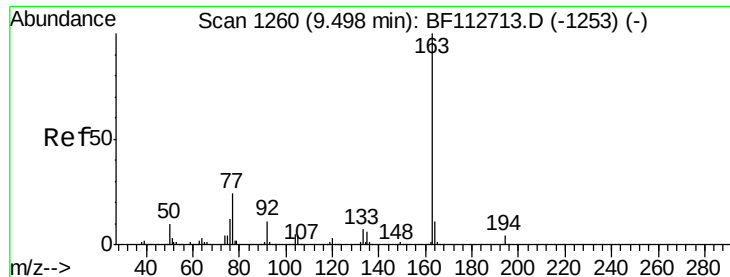
Acq: 7 Mar 2019 3:00

Tgt Ion:	172	Resp:	1141955
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.0	43.4
170	24.1	20.0	30.0



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





#50

Dimethylphthalate

Concen: 2.198 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

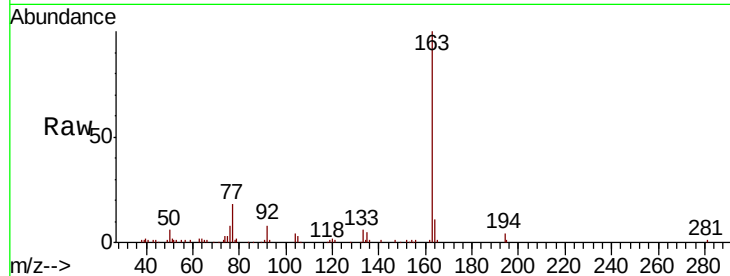
ClientSampleId :

EXT-027-SW012-022719

Tot Ion:	163	Resp:	90754
Ion Ratio	Lower	Upper	
163	100		
194	3.9	3.0	4.4
164	10.7	8.4	12.6

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM

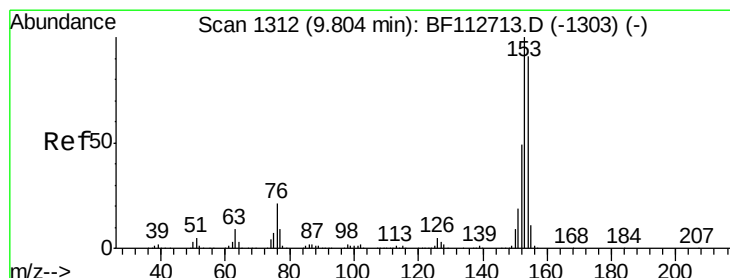
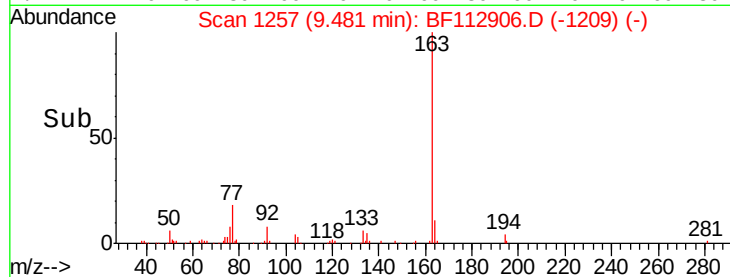
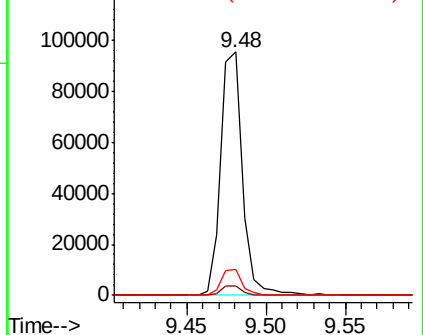


Abundance

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



#52

Acenaphthene

Concen: 3.372 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

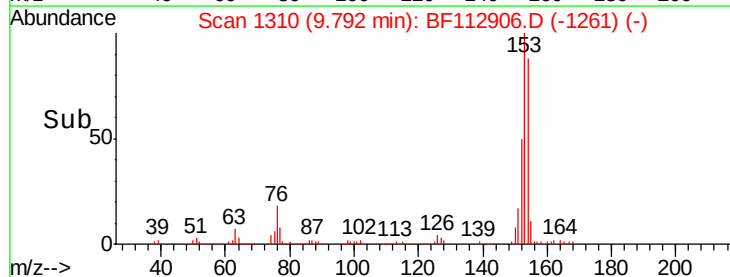
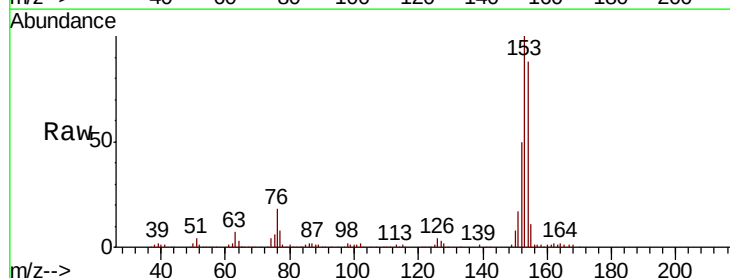
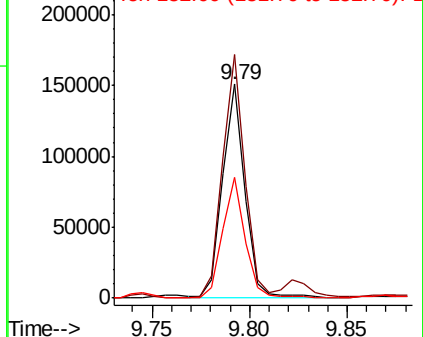
Tgt Ion:	154	Resp:	119396
Ion Ratio	Lower	Upper	
154	100		
153	113.7	87.8	131.8
152	56.5	43.0	64.6

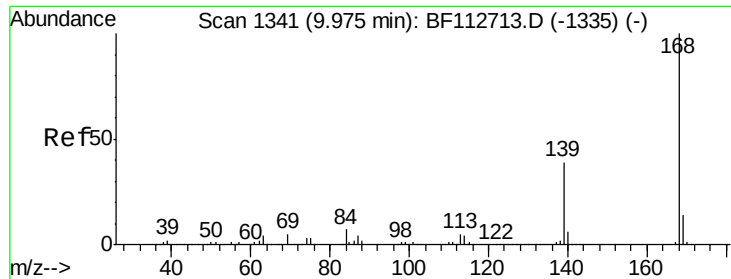
Abundance

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





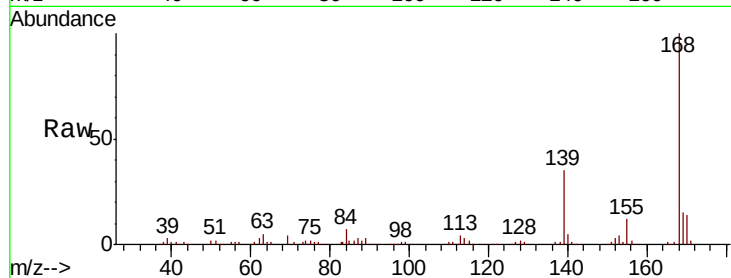
#55
Dibenzenofuran
Concen: 2.794 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW012-022719

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.2	31.3	46.9
169	14.9	11.3	16.9

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM

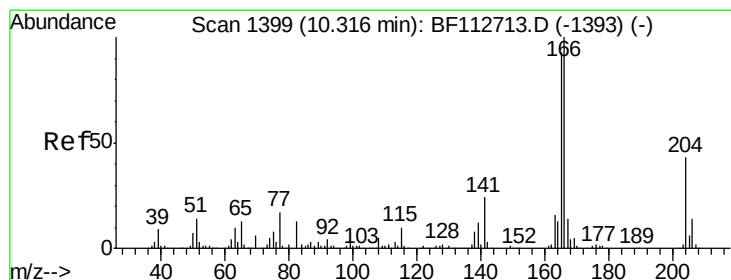
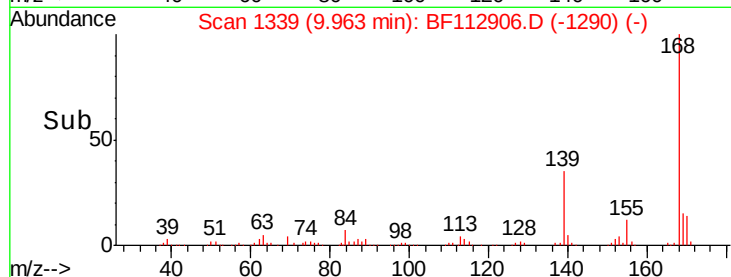
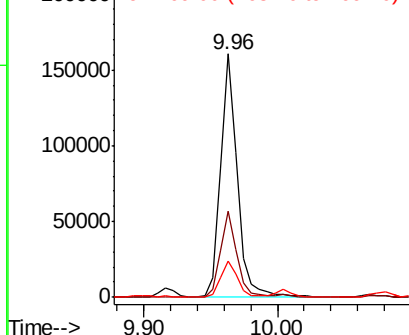


Abundance

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: 3.178 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

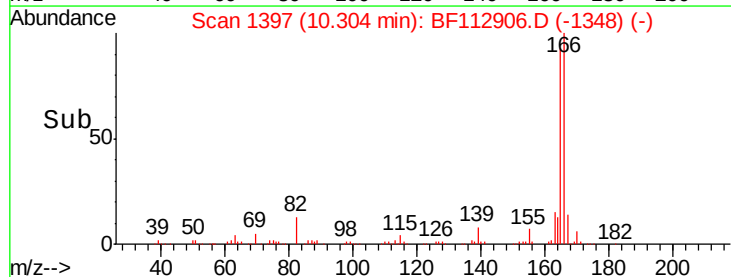
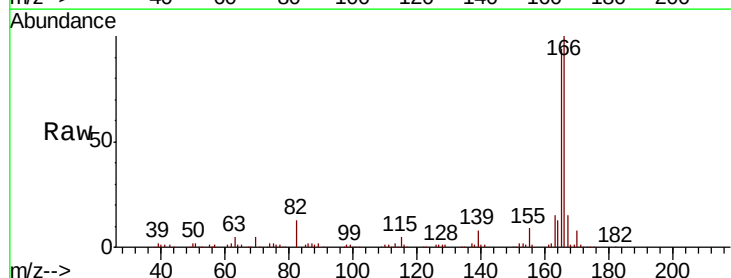
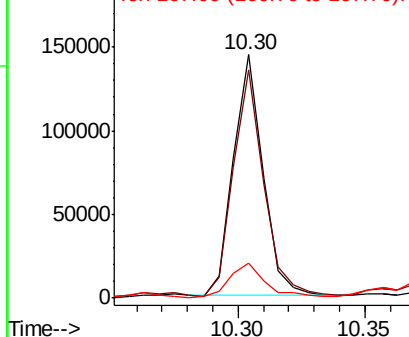
Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.8	74.7	112.1
167	14.6	11.0	16.6

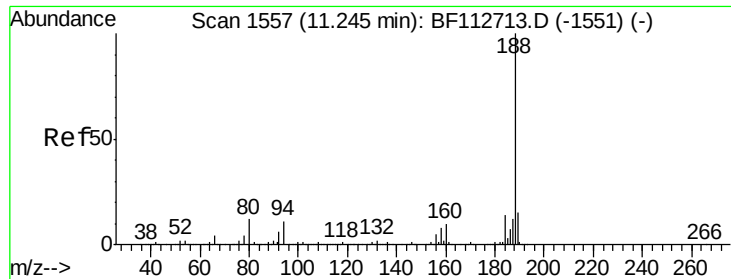
Abundance

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: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

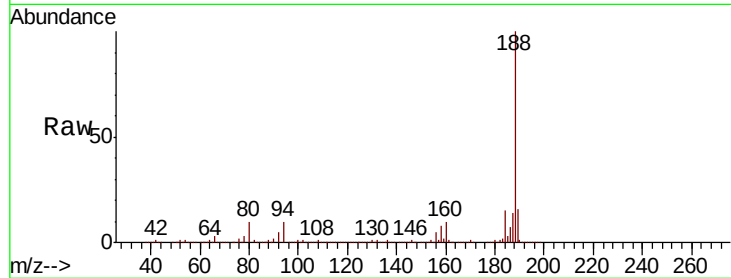
ClientSampleId :

EXT-027-SW012-022719

Tot Ion	188	Resp	971459
Ion Ratio	Lower	Upper	
188	100		
94	10.0	9.0	13.4
80	9.7	9.2	13.8

Manual Integrations
APPROVED

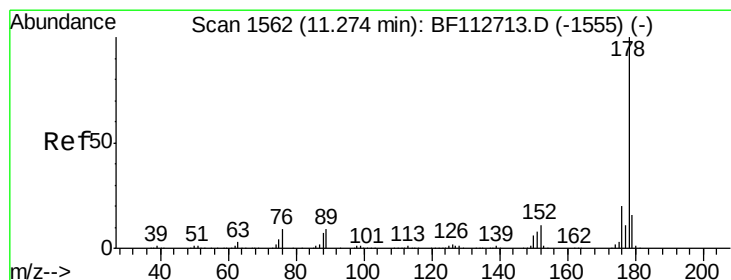
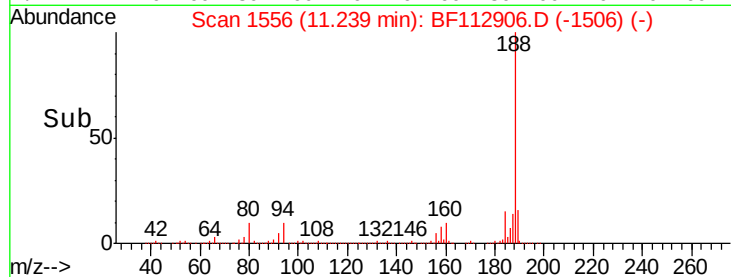
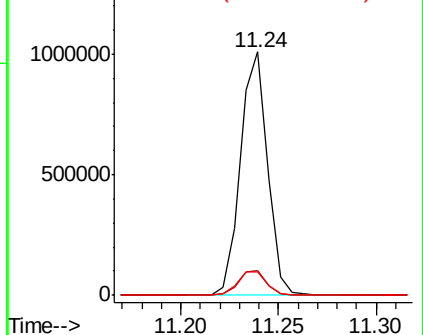
Sohil
3/7/2019 11:02:57 AM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 25.954 ng

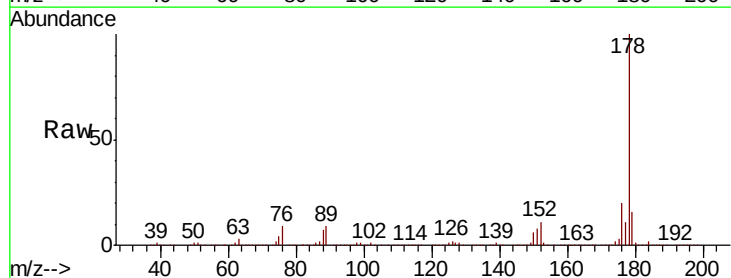
RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

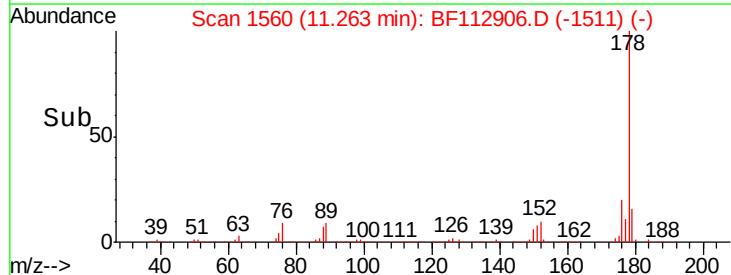
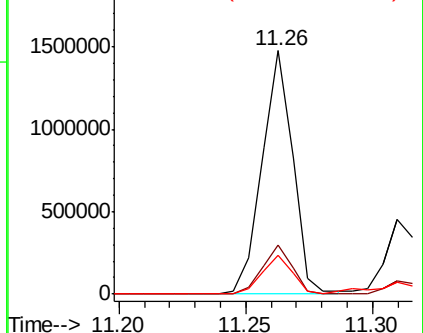
Tgt Ion	178	Resp	1254440
Ion Ratio	Lower	Upper	
178	100		
176	20.0	16.3	24.5
179	15.9	12.7	19.1

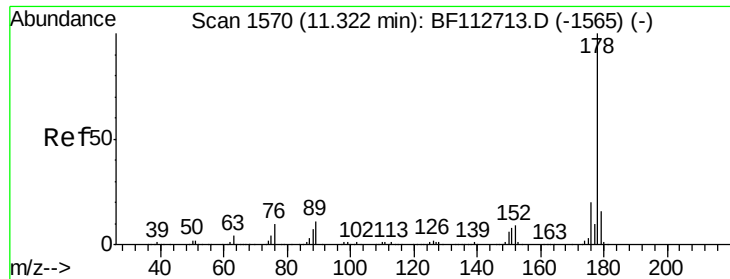


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.538 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

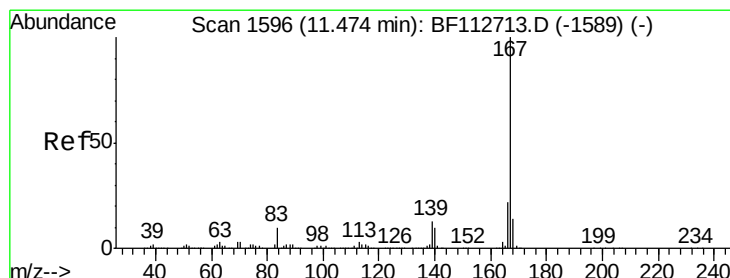
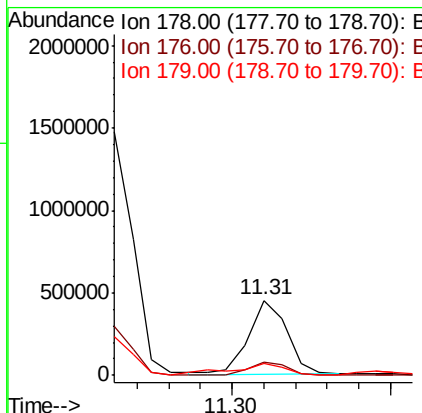
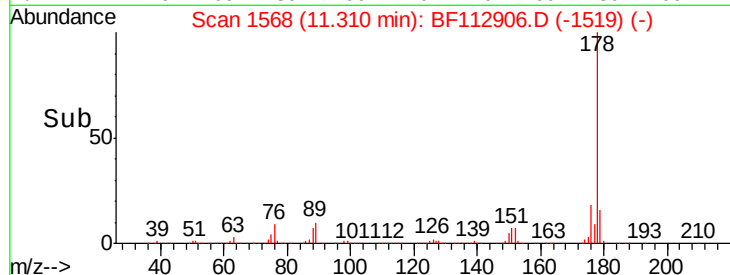
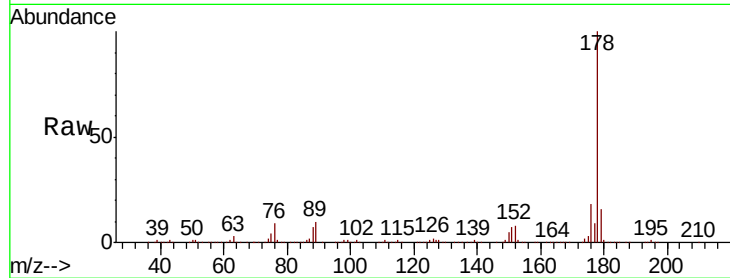
ClientSampleId :

EXT-027-SW012-022719

Tot Ion:	178	Resp:	381395
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.8	23.6
179	16.1	13.0	19.6

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM



#73

Carbazole

Concen: 2.483 ng

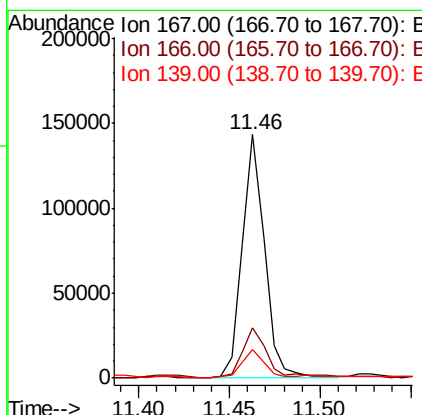
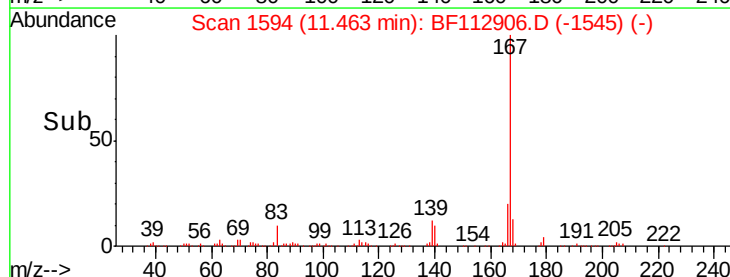
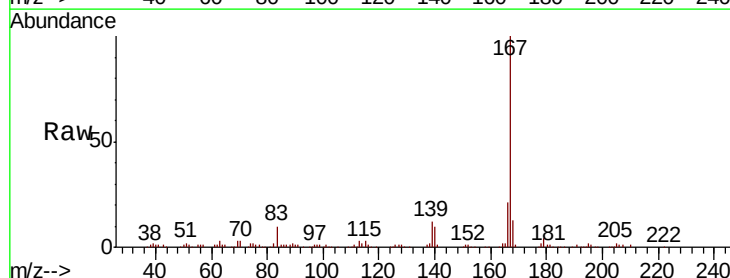
RT: 11.46 min Scan# 1594

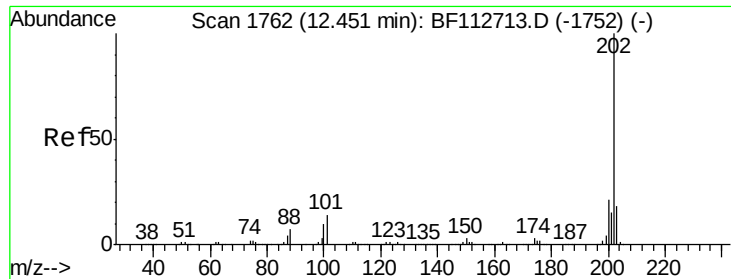
Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Tgt Ion:	167	Resp:	122554
Ion Ratio	Lower	Upper	
167	100		
166	20.8	17.5	26.3
139	11.8	10.8	16.2





#75

Fluoranthene

Concen: 25.944 ng

RT: 12.45 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

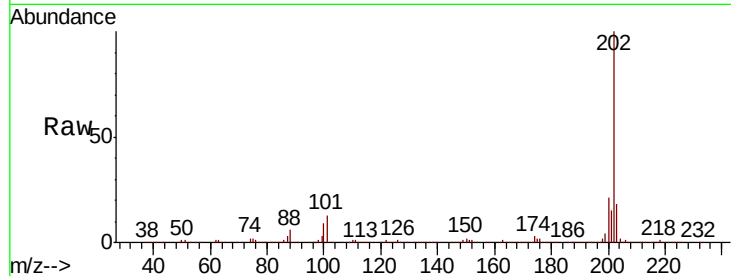
ClientSampleId :

EXT-027-SW012-022719

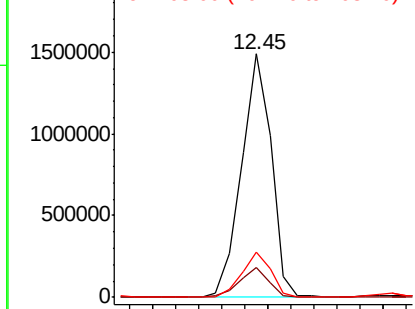
Tot Ion:	202	Resp:	1343462
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	33.8
203	18.3	0.0	38.4

Manual Integrations
APPROVED

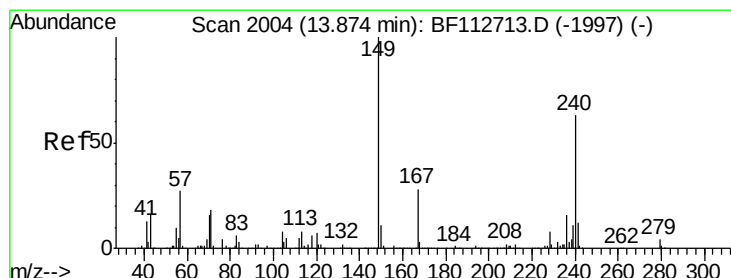
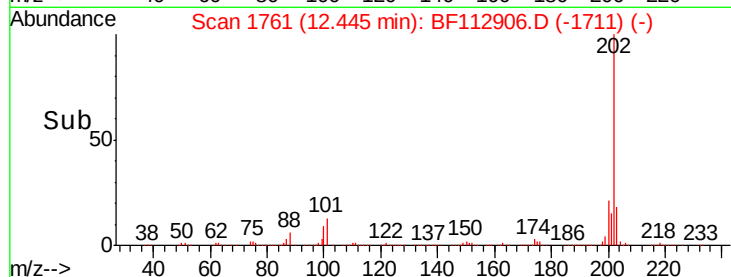
Sohil
3/7/2019 11:02:57 AM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

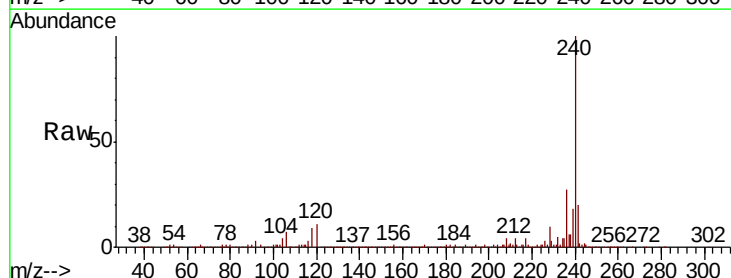
RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

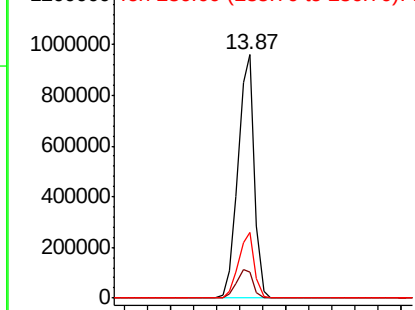
Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

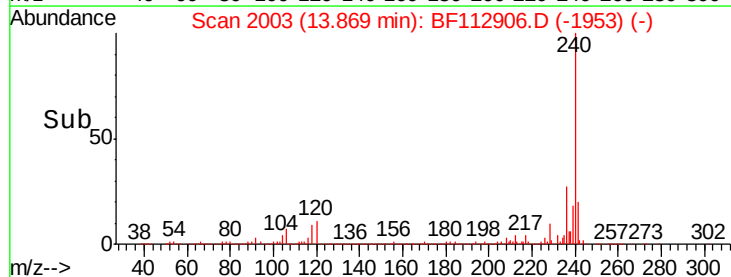
Tgt Ion:	240	Resp:	935413
Ion Ratio	Lower	Upper	
240	100		
120	10.8	8.9	13.3
236	26.9	20.7	31.1

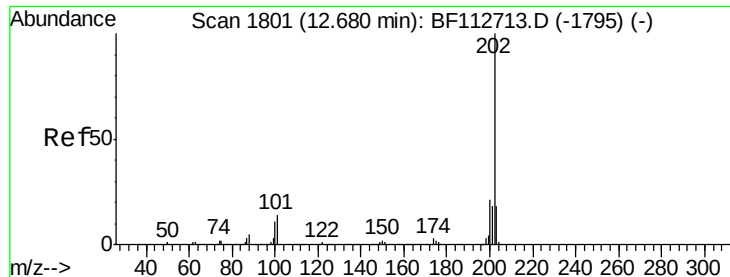


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





#78

Pvrene

Concen: 15.002 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW012-022719

Tot Ion:202 Resp: 1182991

Ion Ratio Lower Upper

202 100

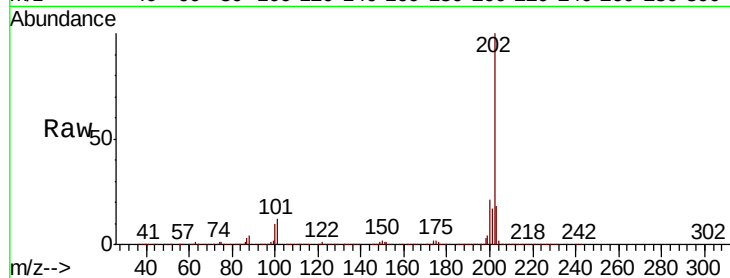
200 20.7 17.0 25.4

203 18.2 14.4 21.6

Manual Integrations
APPROVED

Sohil

3/7/2019 11:02:57 AM

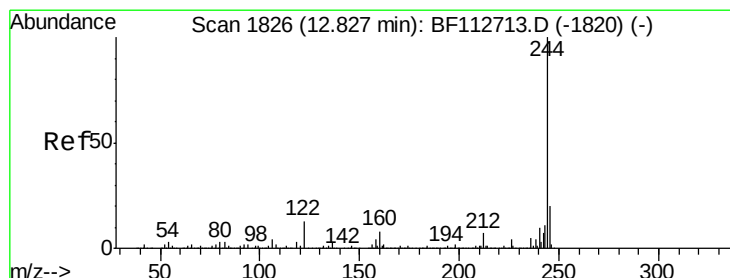
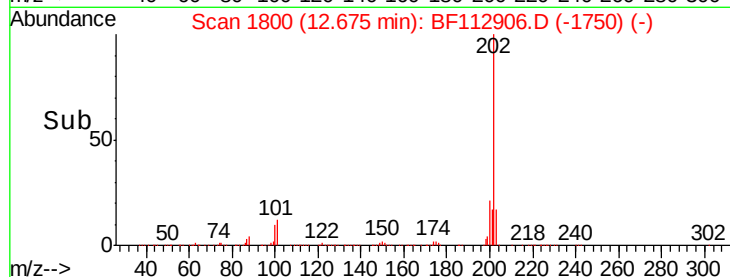
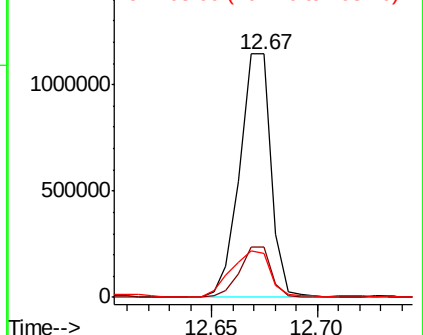


Abundance

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: 21.852 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

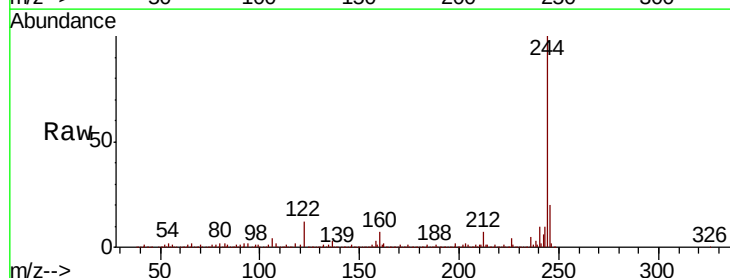
Tgt Ion:244 Resp: 1054473

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 12.0 10.5 15.7

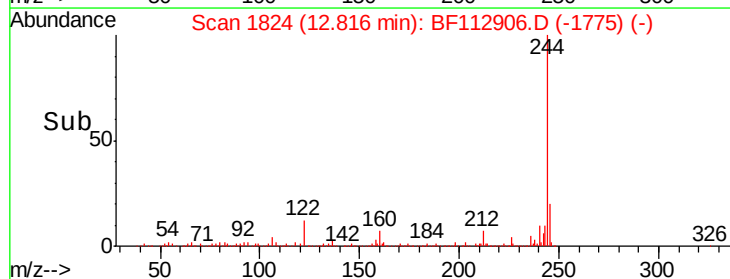
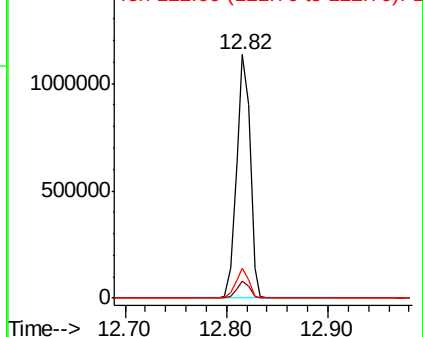


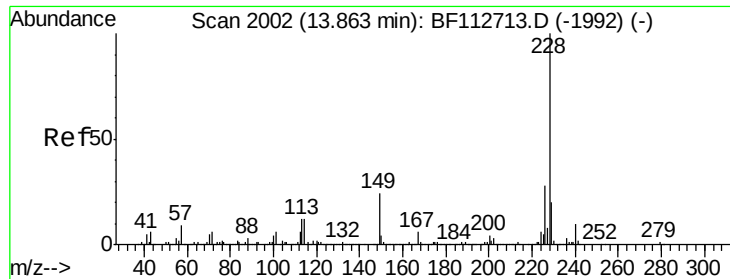
Abundance

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: 12.046 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Instrument :

BNA_F

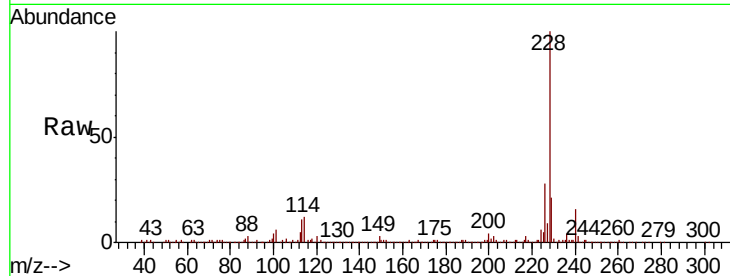
ClientSampleId :

EXT-027-SW012-022719

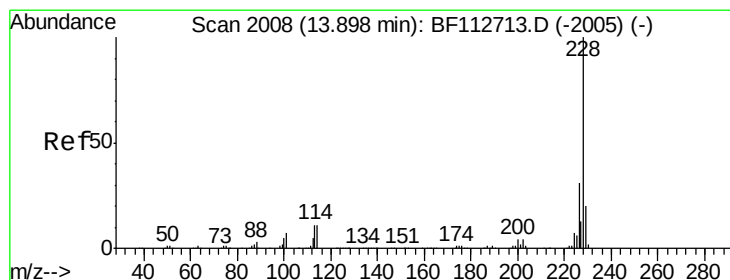
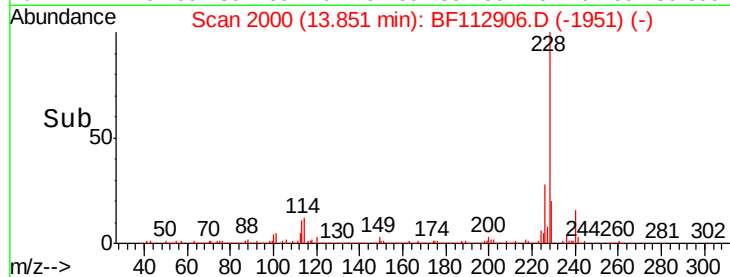
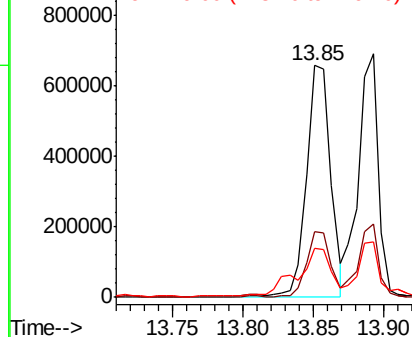
Tot Ion:	228	Resp:	780967
Ion Ratio	Lower	Upper	
228	100		
226	28.1	22.2	33.4
229	20.9	16.0	24.0

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 10.708 ng

RT: 13.89 min Scan# 2007

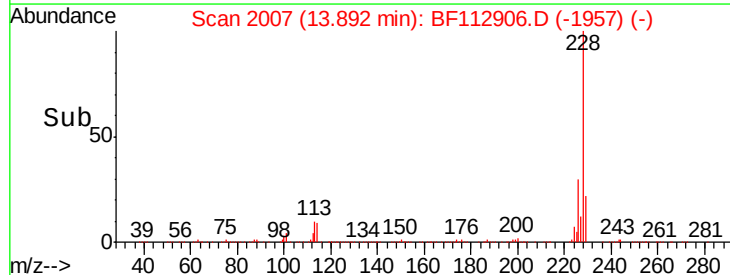
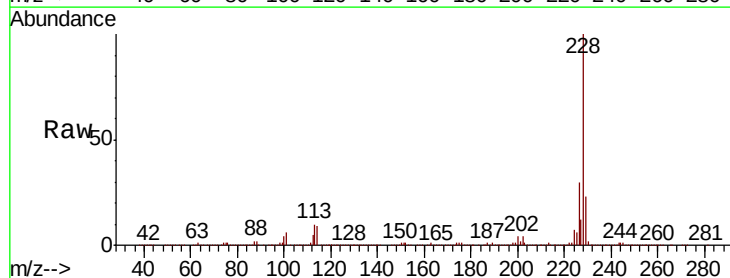
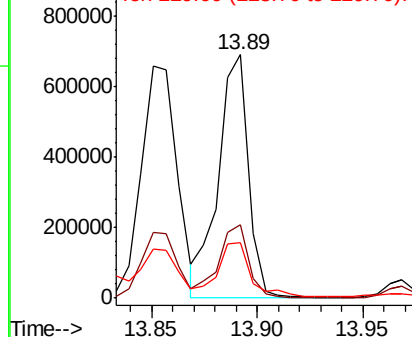
Delta R.T. -0.01 min

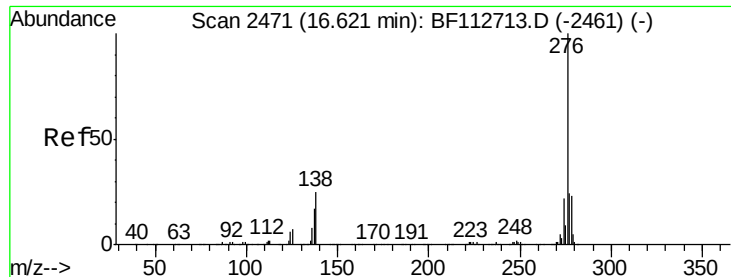
Lab File: BF112906.D

Acq: 7 Mar 2019 3:00

Tgt Ion:	228	Resp:	680021
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.9	37.3
229	23.0	16.3	24.5

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





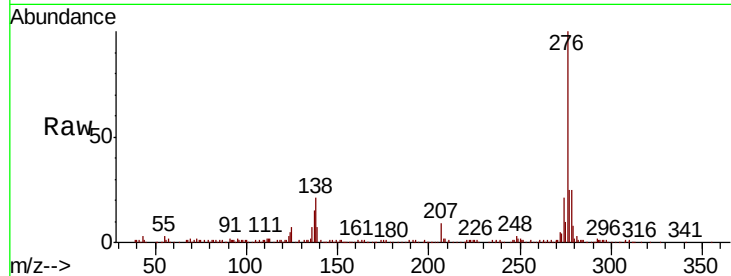
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.080 ng
 RT: 16.62 min Scan# 2470
 Delta R.T. -0.01 min
 Lab File: BF112906.D
 Acq: 7 Mar 2019 3:00

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW012-022719

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.8	23.2	34.8#
277	23.5	19.9	29.9

Manual Integrations
 APPROVED

Sohil
 3/7/2019 11:02:57 AM

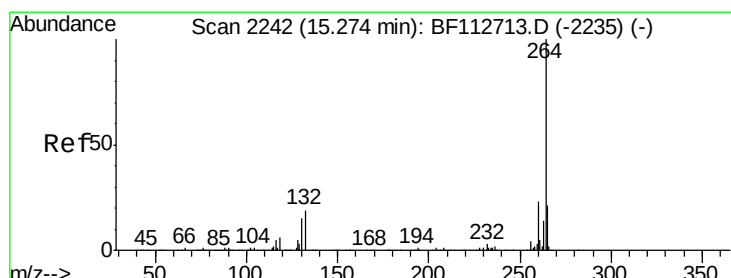
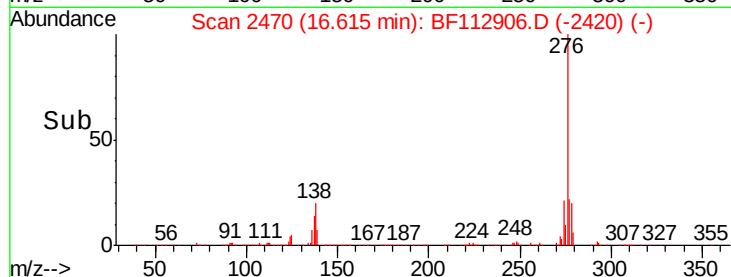
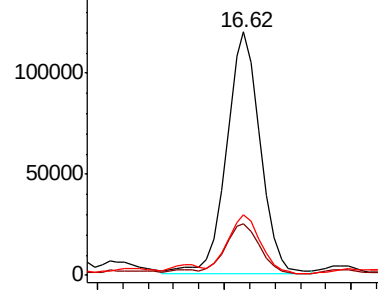


Abundance

Ion 276.00 (275.70 to 276.70): E

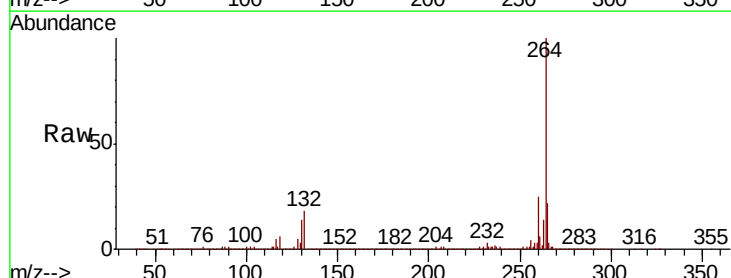
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2242
 Delta R.T. 0.00 min
 Lab File: BF112906.D
 Acq: 7 Mar 2019 3:00

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	18.7	28.1
265	22.0	17.2	25.8

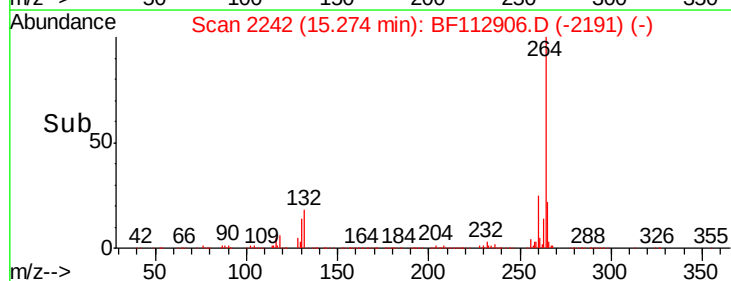
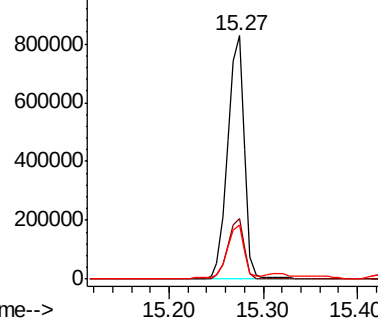


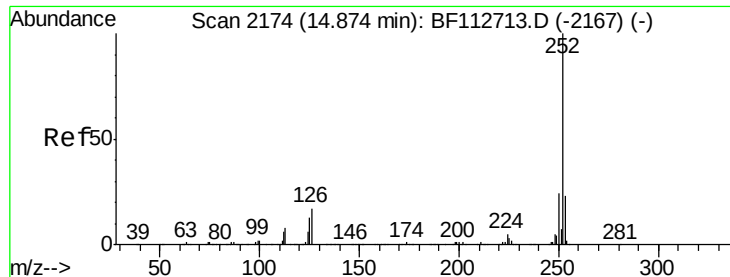
Abundance

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





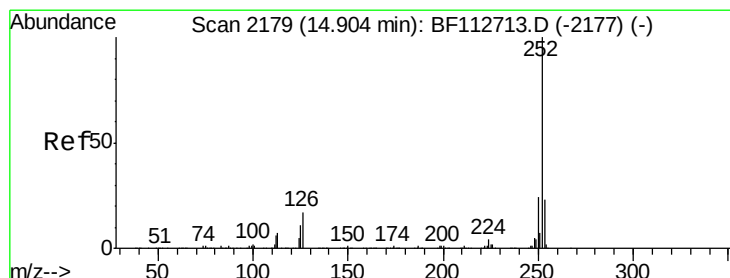
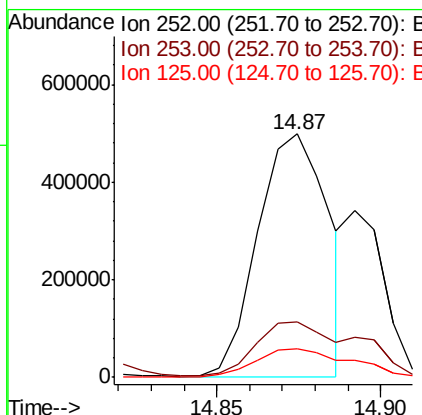
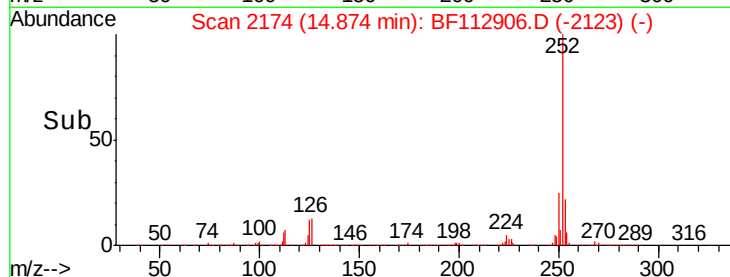
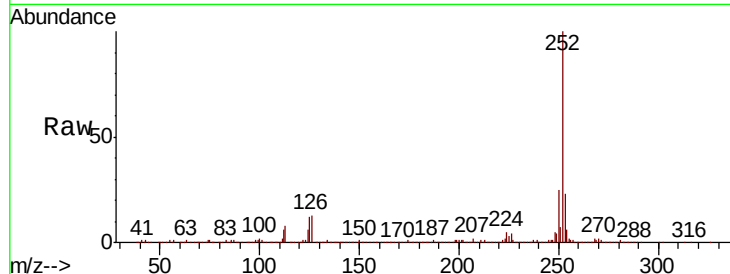
#88
Benzo(b)fluoranthene
Concen: 11.307 ng m
RT: 14.87 min Scan# 2174
Delta R.T. 0.00 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW012-022719

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	11.9	10.2	15.2

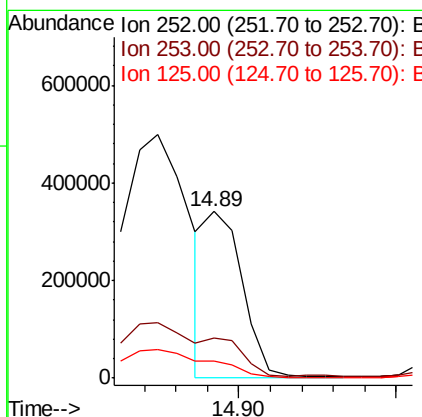
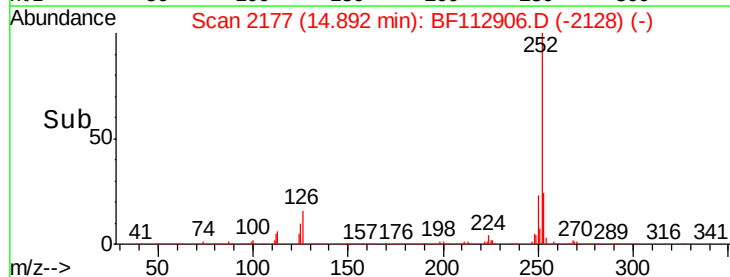
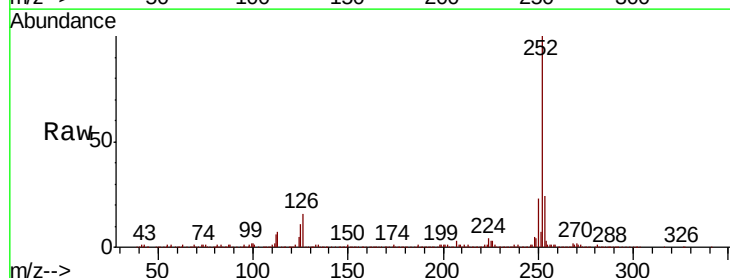
Manual Integrations
APPROVED

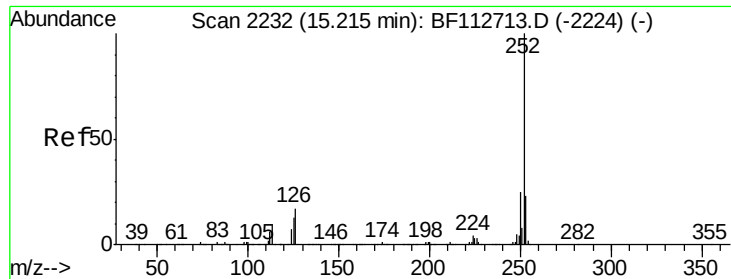
Sohil
3/7/2019 11:02:57 AM



#89
Benzo(k)fluoranthene
Concen: 4.677 ng m
RT: 14.89 min Scan# 2177
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.2	27.2
125	10.5	9.8	14.6





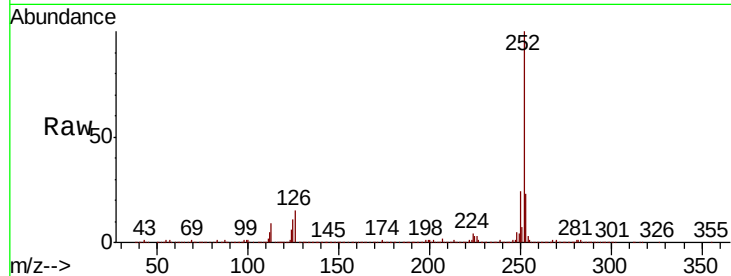
#90
Benzo(a)pyrene
Concen: 9.013 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW012-022719

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.2	10.7	16.1

Manual Integrations
APPROVED

Sohil
3/7/2019 11:02:57 AM

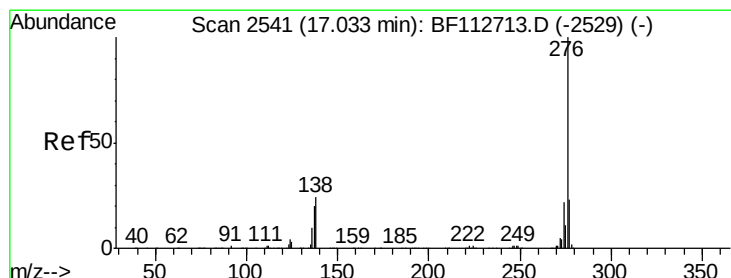
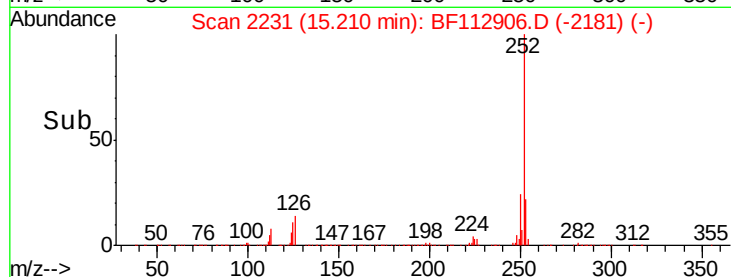
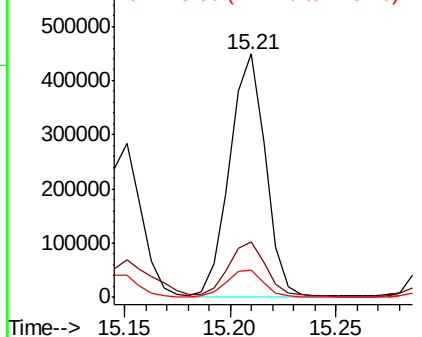


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.429 ng
RT: 17.02 min Scan# 2539
Delta R.T. -0.01 min
Lab File: BF112906.D
Acq: 7 Mar 2019 3:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.6	27.8
138	23.0	19.4	29.0

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

