

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032019\
 Data File : BF113184.D
 Acq On : 20 Mar 2019 21:26
 Operator : JU/SJ
 Sample : K1984-05 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-13(10-11)

Manual Integrations
 APPROVED

Sohil
 3/21/2019 6:36:22 PM

Quant Time: Mar 21 15:35:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 21 12:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	110980	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	449476	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	215416	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	395322	20.00	ng	0.00
76) Chrysene-d12	13.87	240	355595	20.00	ng	0.00
87) Perylene-d12	15.28	264	278476	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.33	112	52766	7.40	ng	0.00
7) Phenol-d6	6.37	99	75214	8.39	ng	0.00
23) Nitrobenzene-d5	7.28	82	37871	5.04	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	21352	9.34	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	92473	4.34	ng	0.00
79) Terphenyl-d14	12.82	244	89122	4.86	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
52) Acenaphthene	9.79	154	99614	7.313	ng	99
58) Fluorene	10.30	166	51746	3.683	ng	# 94
71) Phenanthrene	11.26	178	434378	22.085	ng	99
72) Anthracene	11.31	178	103190	5.012	ng	96
75) Fluoranthene	12.45	202	250840	11.903	ng	98
78) Pyrene	12.67	202	250999	8.373	ng	98
81) Benzo(a)anthracene	13.86	228	103083	4.183	ng	96
83) Chrysene	13.89	228	92012m	3.811	ng	
88) Benzo(b)fluoranthene	14.88	252	89846m	4.988	ng	
90) Benzo(a)pyrene	15.22	252	62951	3.951	ng	# 87
92) Benzo(g,h,i)perylene	17.06	276	29195	2.139	ng	97

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

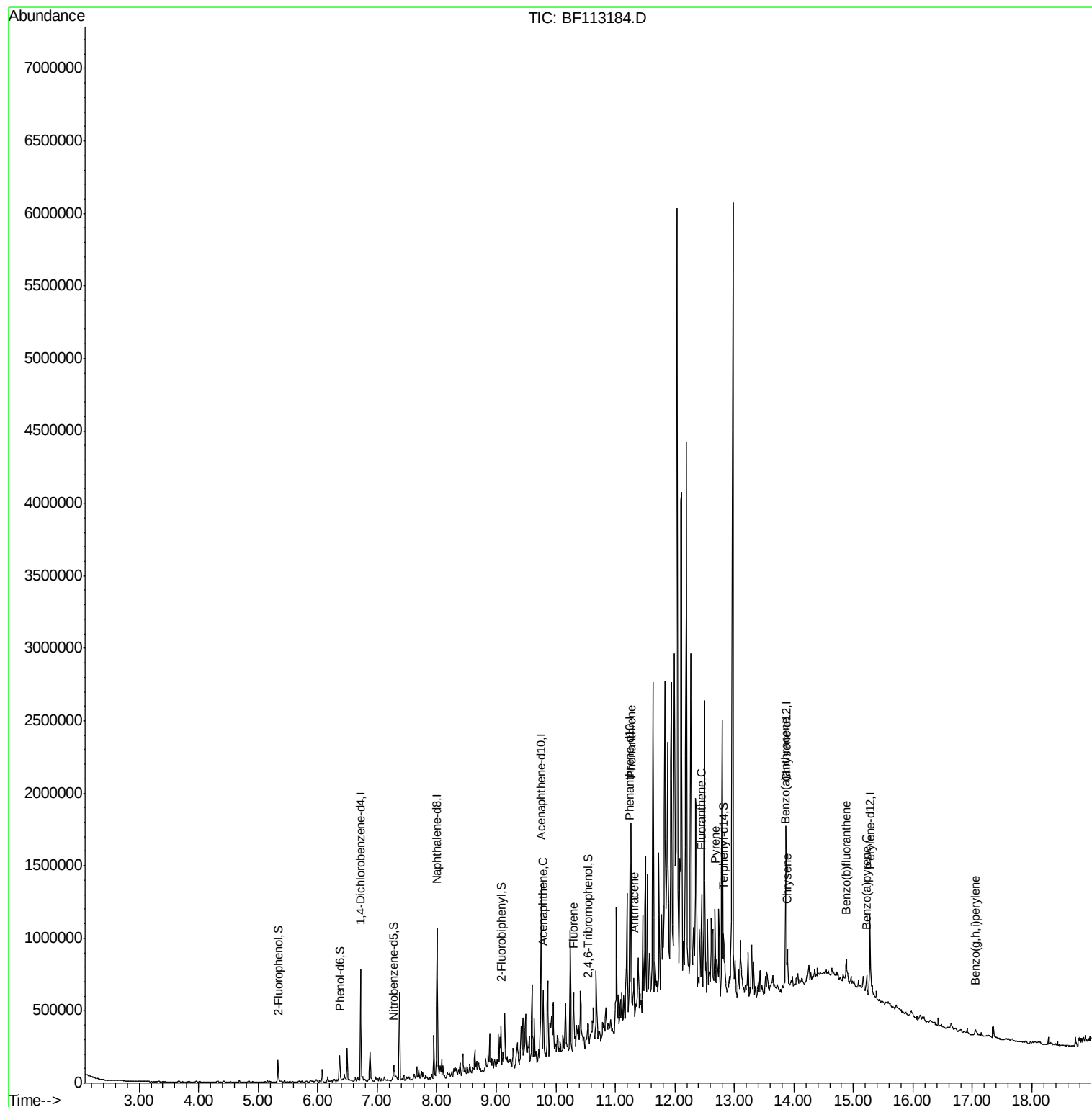
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032019\
Data File : BF113184.D
Acq On : 20 Mar 2019 21:26
Operator : JU/SJ
Sample : K1984-05 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

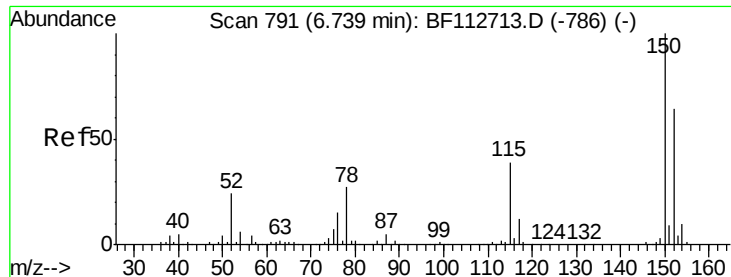
Instrument :
BNA_F
ClientSampleId :
SB-13(10-11)

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM

Quant Time: Mar 21 15:35:46 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 21 12:13:22 2019
Response via : Initial Calibration





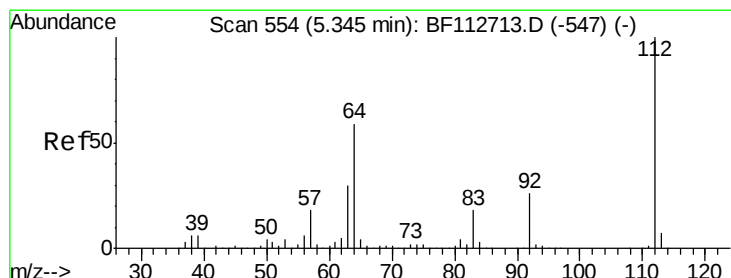
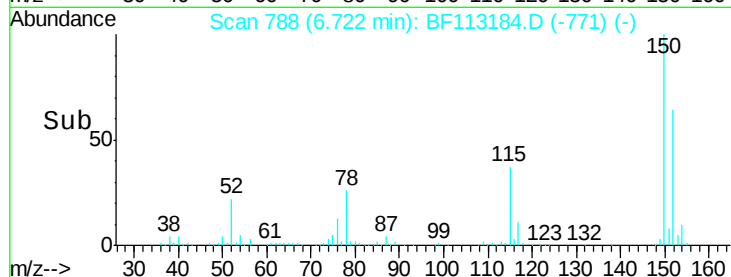
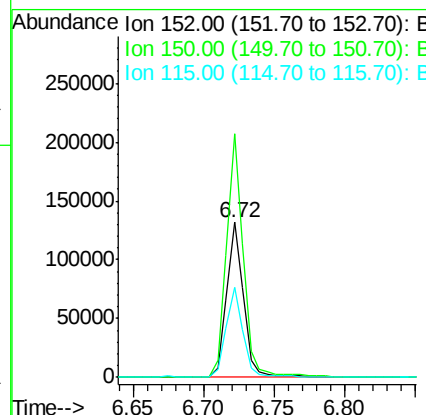
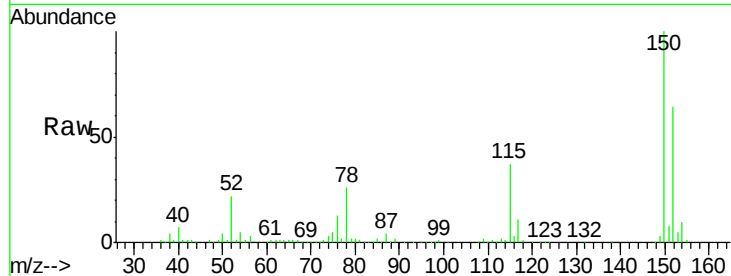
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BF113184.D
 Acq: 20 Mar 2019 21:26

Instrument :
 BNA_F
 ClientSampled :
 SB-13(10-11)

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	110980		
150	157.3	123.0	184.6	
115	58.2	45.9	68.9	

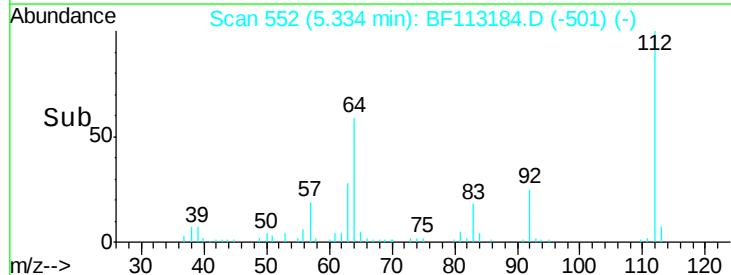
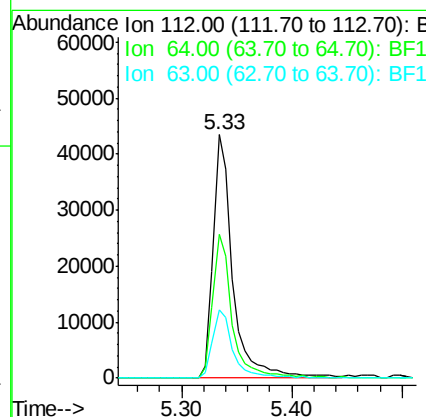
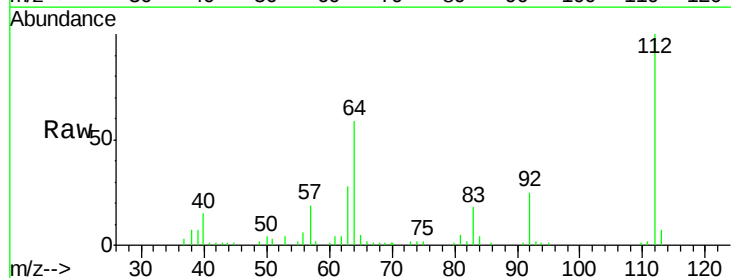
Manual Integrations
 APPROVED

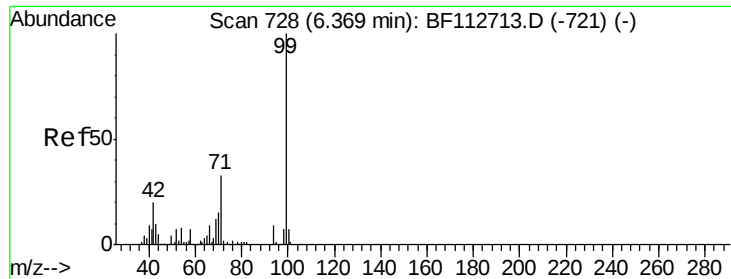
Sohil
 3/21/2019 6:36:22 PM



#5
 2-Fluorophenol
 Concen: 7.396 ng
 RT: 5.33 min Scan# 552
 Delta R.T. -0.00 min
 Lab File: BF113184.D
 Acq: 20 Mar 2019 21:26

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	52766		
64	58.8	49.3	73.9	
63	28.2	25.4	38.2	





#7

Phenol-d6

Concen: 8.392 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113184.D

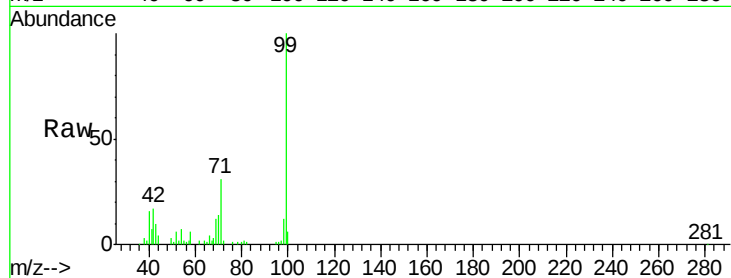
Acq: 20 Mar 2019 21:26

Instrument :

BNA_F

ClientSampleId :

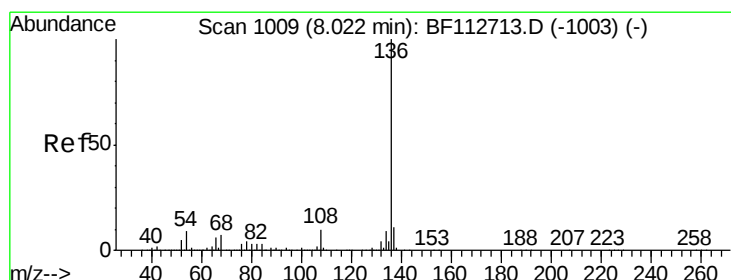
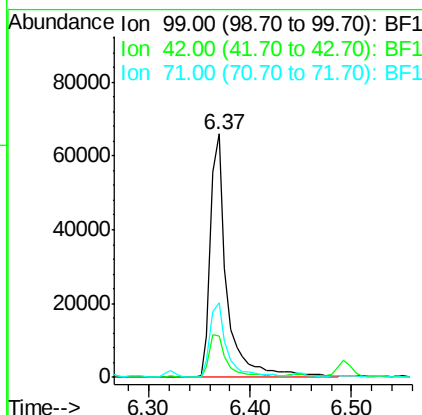
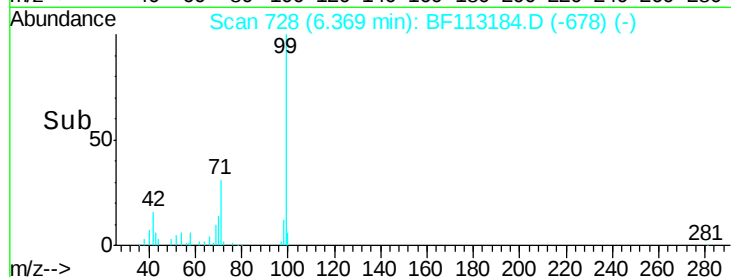
SB-13(10-11)



Tgt Ion:	99	Resp:	75214
Ion	Ratio	Lower	Upper
99	100		
42	16.8	15.2	22.8
71	30.5	25.7	38.5

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM



#21

Naphthalene-d8

Concen: 20.000 ng

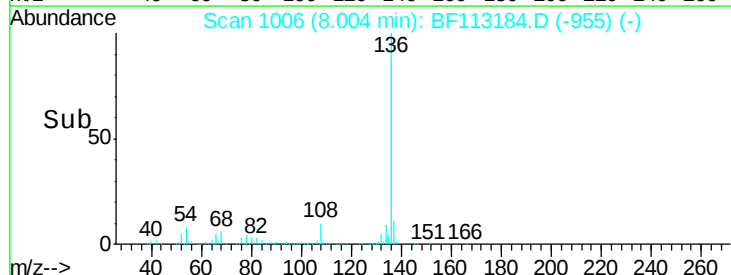
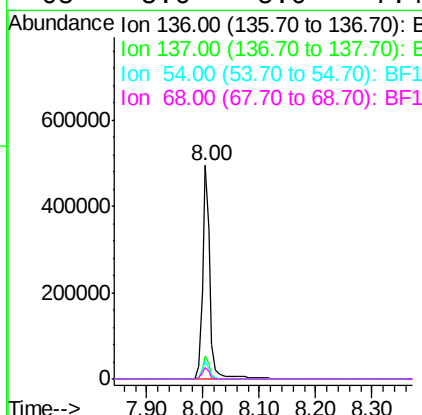
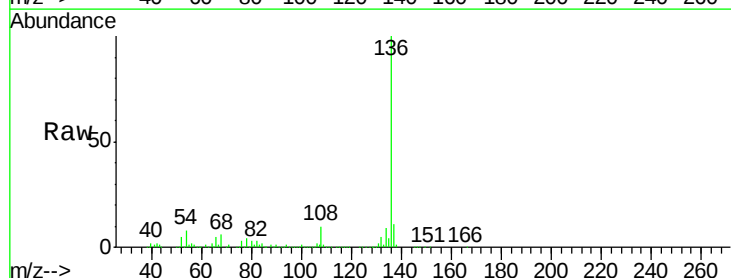
RT: 8.00 min Scan# 1006

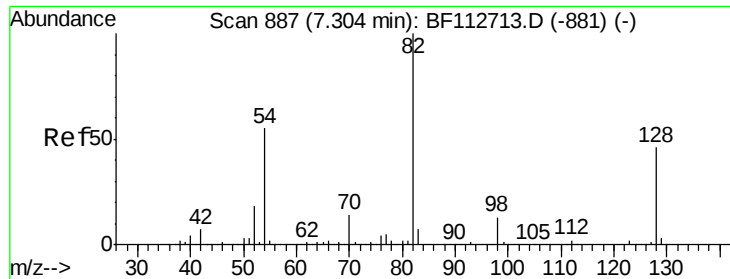
Delta R.T. -0.00 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Tgt Ion:	136	Resp:	449476
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.4	7.0	10.6
68	5.6	5.0	7.4





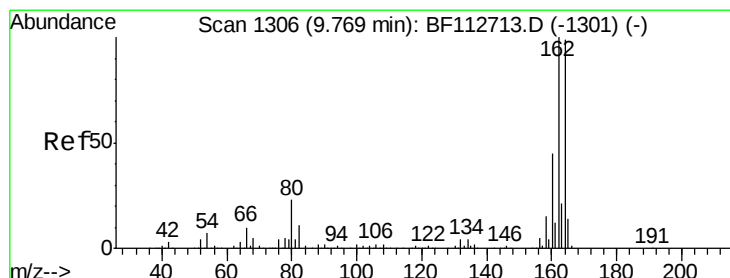
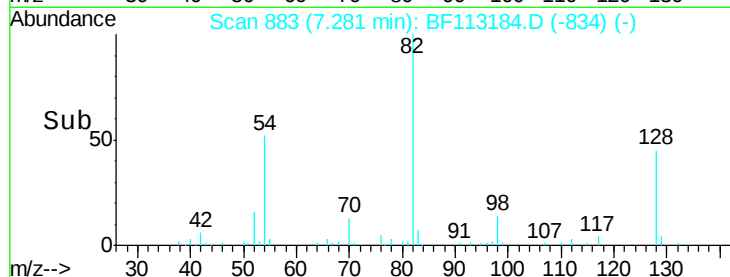
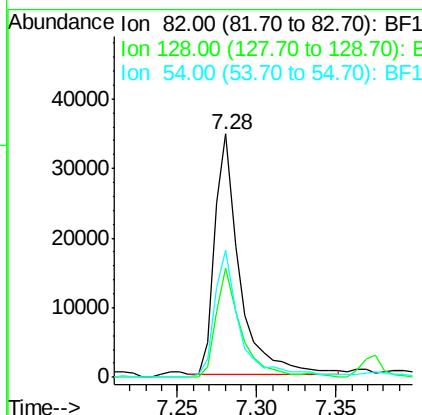
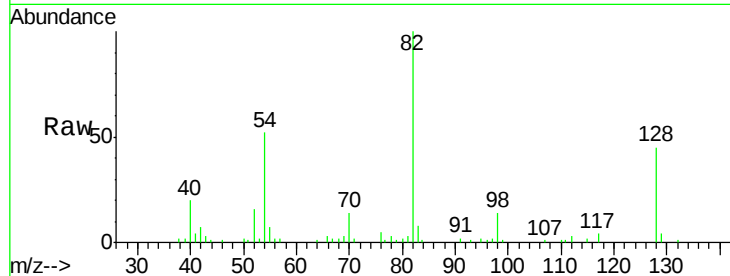
#23
Nitrobenzene-d5
Concen: 5.042 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Instrument :
BNA_F
ClientSampleId :
SB-13(10-11)

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	37871		
128	44.9	37.9	56.9	
54	52.2	41.2	61.8	

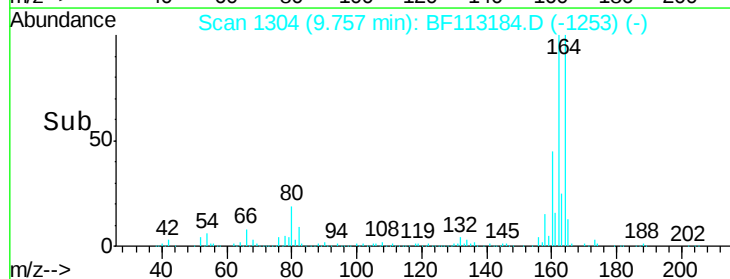
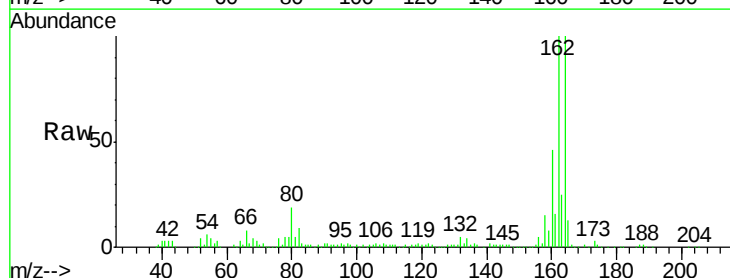
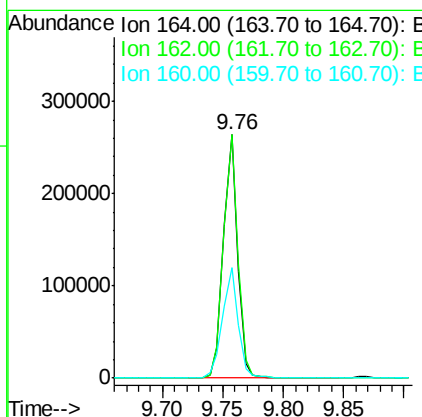
Manual Integrations
APPROVED

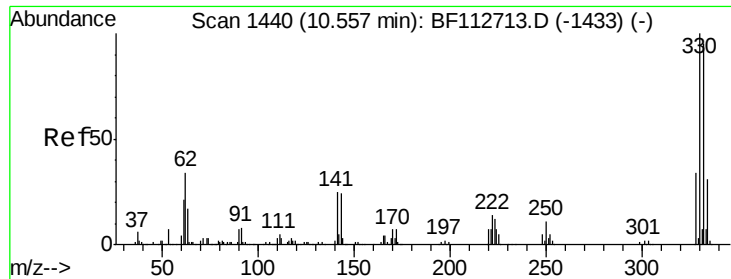
Sohil
3/21/2019 6:36:22 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.00 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	215416		
162	100.0	80.8	121.2	
160	45.6	36.2	54.2	





#42

2,4,6-Tribromophenol

Concen: 9.337 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.00 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Instrument :

BNA_F

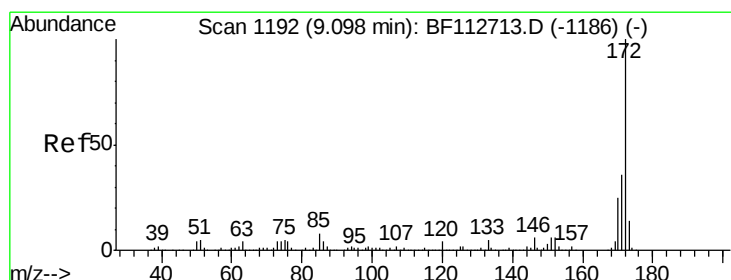
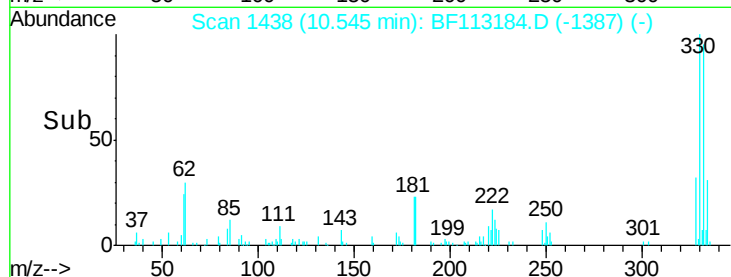
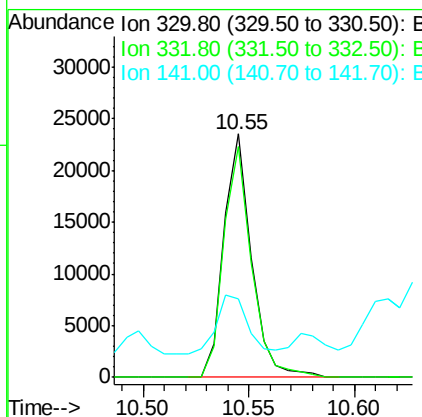
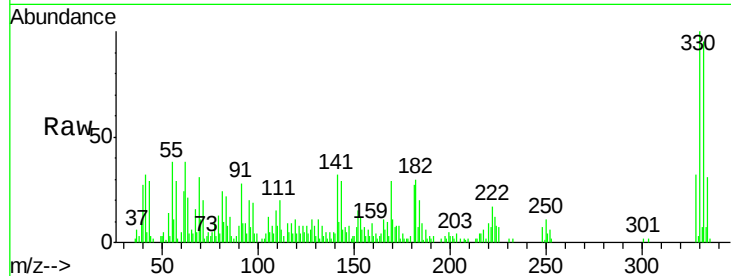
ClientSampleId :

SB-13(10-11)

Tgt Ion:	330	Resp:	21352
Ion Ratio	Lower	Upper	
330	100		
332	95.6	76.3	114.5
141	27.3	22.3	33.5

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM



#45

2-Fluorobiphenyl

Concen: 4.336 ng

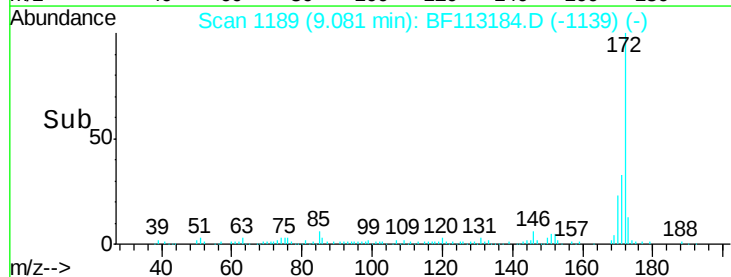
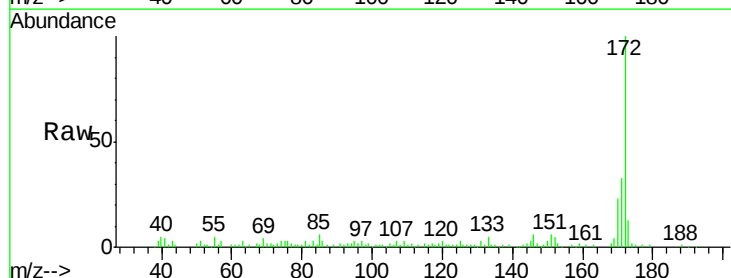
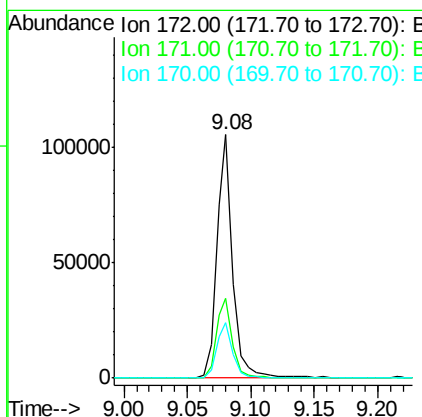
RT: 9.08 min Scan# 1189

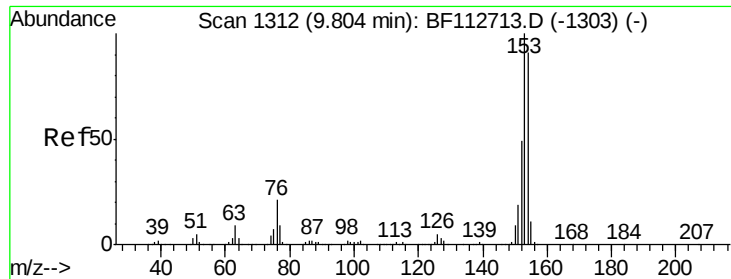
Delta R.T. -0.01 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Tgt Ion:	172	Resp:	92473
Ion Ratio	Lower	Upper	
172	100		
171	32.8	29.0	43.4
170	22.7	20.1	30.1





#52

Acenaphthene

Concen: 7.313 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Instrument :

BNA_F

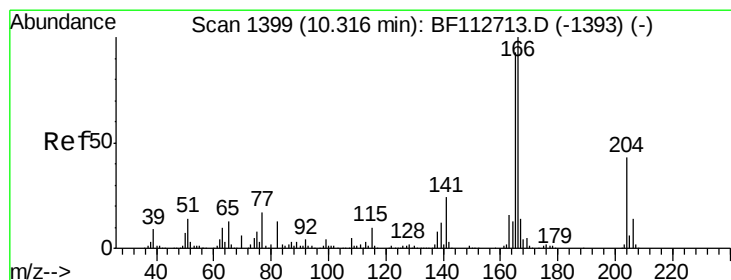
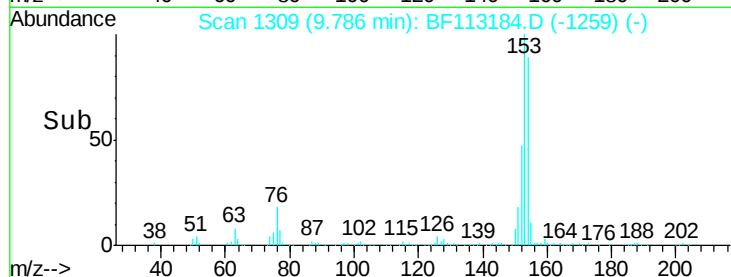
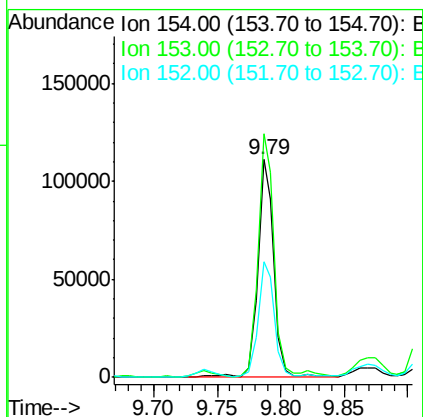
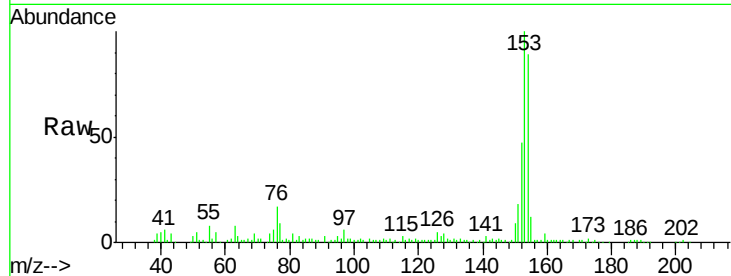
ClientSampleId :

SB-13(10-11)

Tgt Ion:	154	Resp:	99614
Ion Ratio	Lower	Upper	
154	100		
153	111.8	89.9	134.9
152	52.8	43.4	65.2

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM



#58

Fluorene

Concen: 3.683 ng

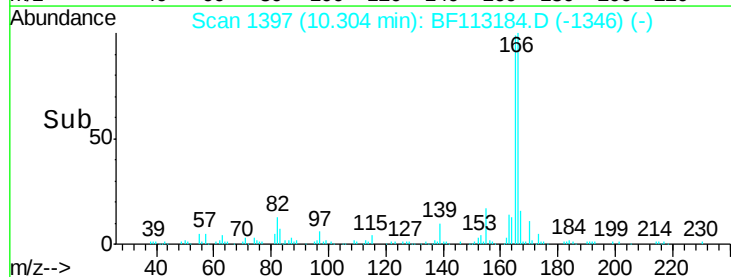
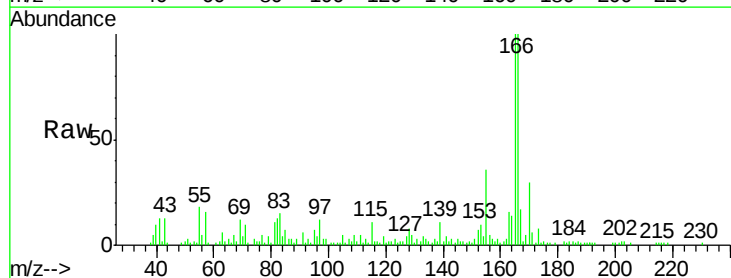
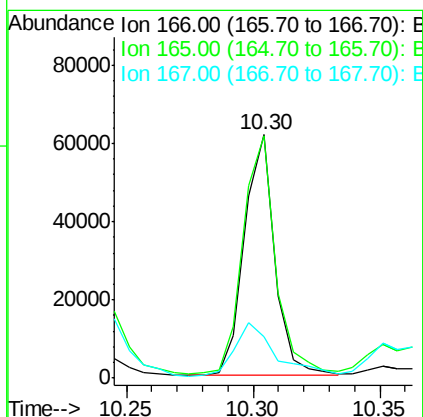
RT: 10.30 min Scan# 1397

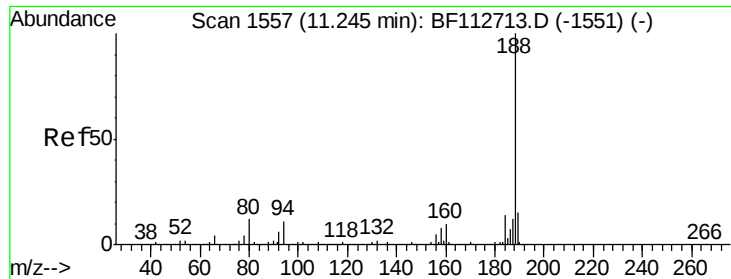
Delta R.T. -0.00 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Tgt Ion:	166	Resp:	51746
Ion Ratio	Lower	Upper	
166	100		
165	99.7	75.4	113.2
167	17.1	11.0	16.6#





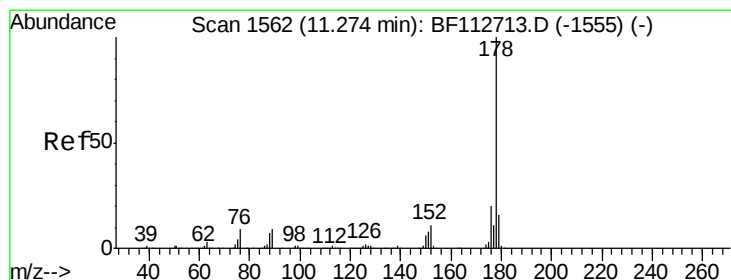
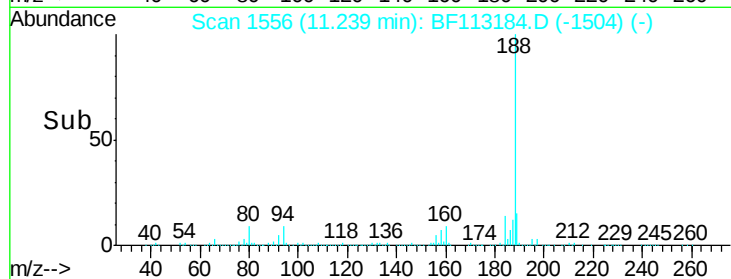
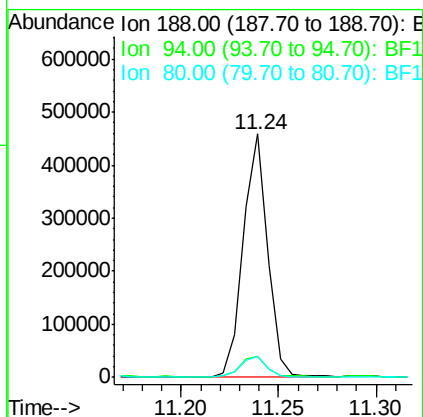
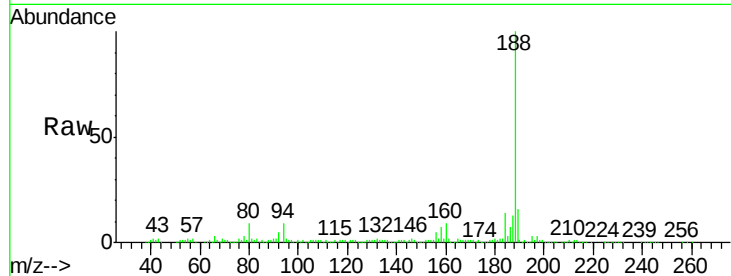
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. 0.01 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Instrument :
BNA_F
ClientSampleId :
SB-13(10-11)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.8	7.4	11.2
80	8.8	7.9	11.9

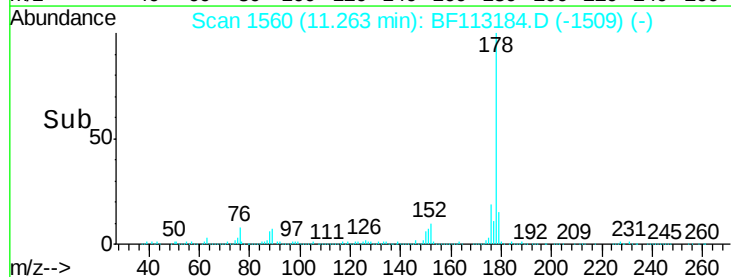
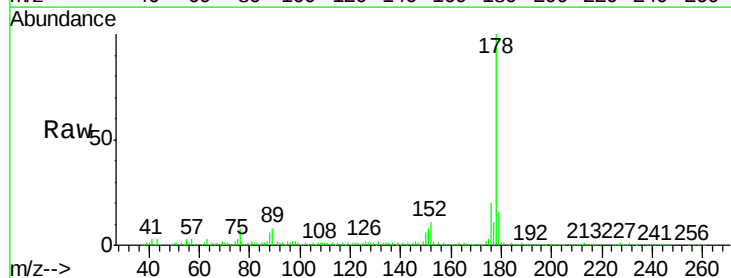
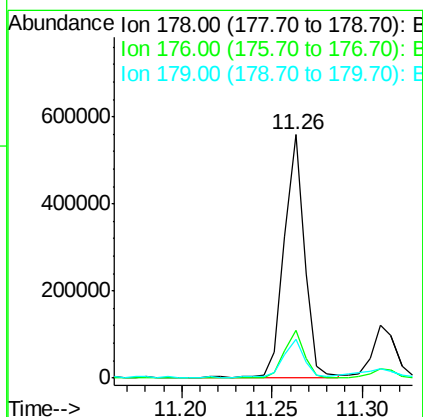
Manual Integrations
APPROVED

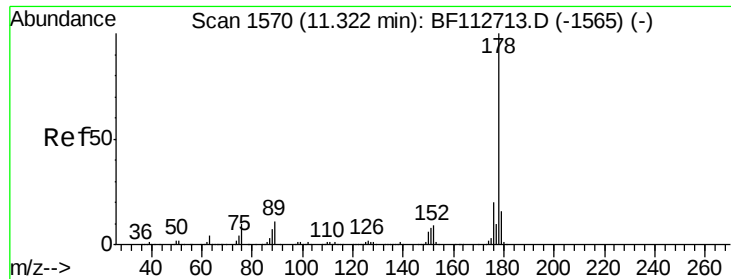
Sohil
3/21/2019 6:36:22 PM



#71
Phenanthrene
Concen: 22.085 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.5	16.2	24.4
179	15.7	13.0	19.4





#72

Anthracene

Concen: 5.012 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Instrument :

BNA_F

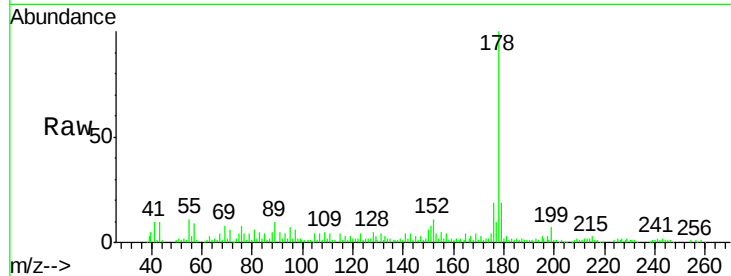
ClientSampleId :

SB-13(10-11)

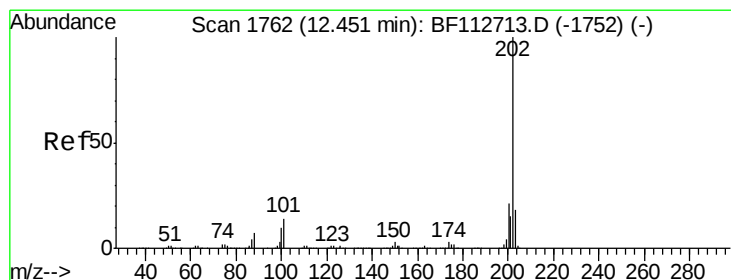
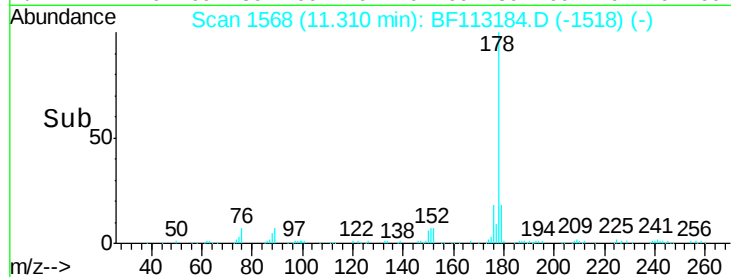
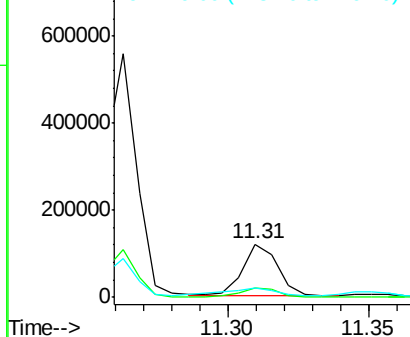
Tgt Ion:	178	Resp:	103190
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.7	23.5
179	18.5	12.4	18.6

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 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



#75

Fluoranthene

Concen: 11.903 ng

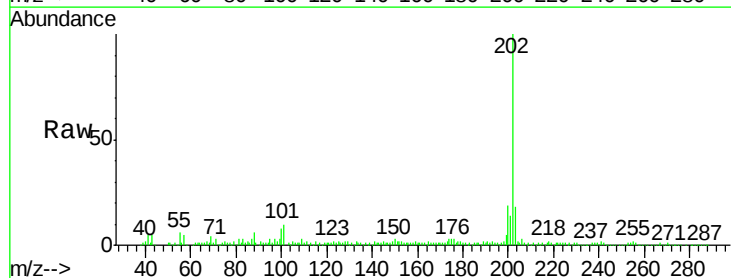
RT: 12.45 min Scan# 1762

Delta R.T. 0.01 min

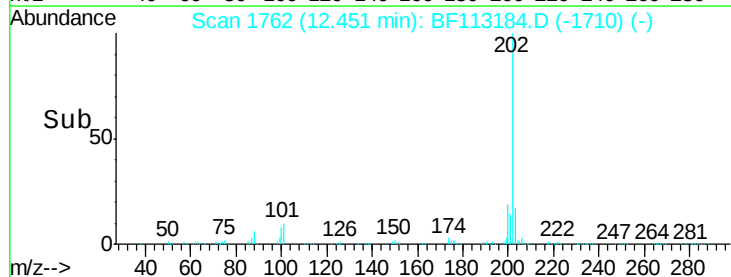
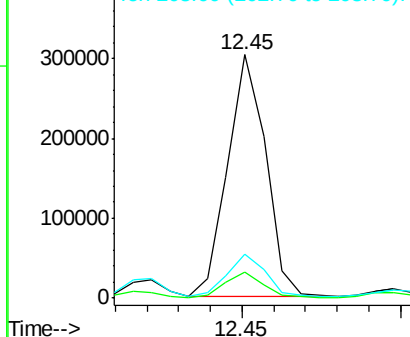
Lab File: BF113184.D

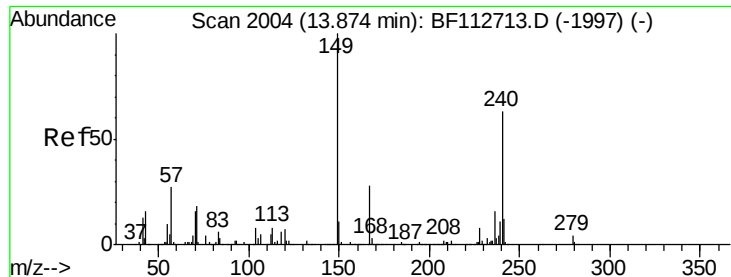
Acq: 20 Mar 2019 21:26

Tgt Ion:	202	Resp:	250840
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	31.9
203	17.9	0.0	38.4



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





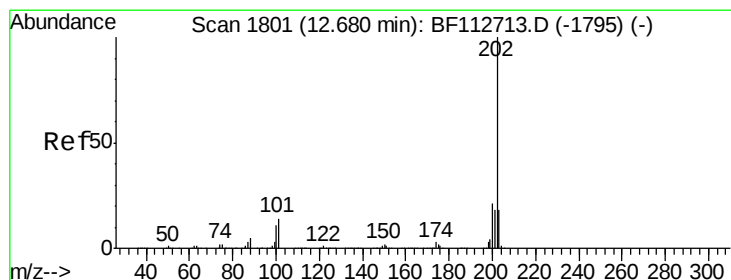
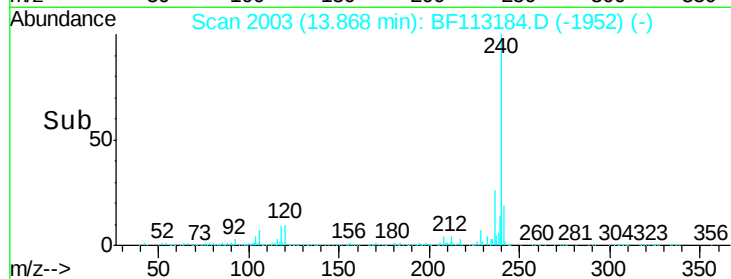
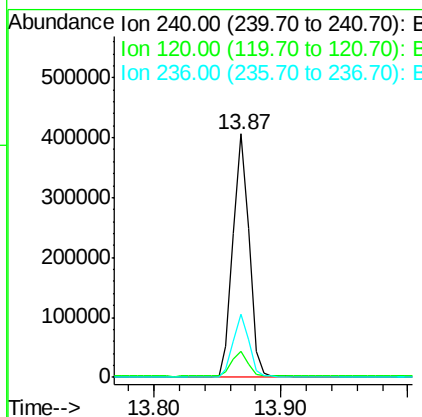
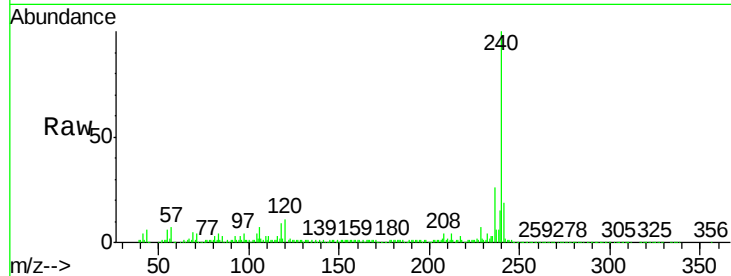
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Instrument :
BNA_F
ClientSampled :
SB-13(10-11)

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	10.5	8.6	12.8
236	25.8	21.2	31.8

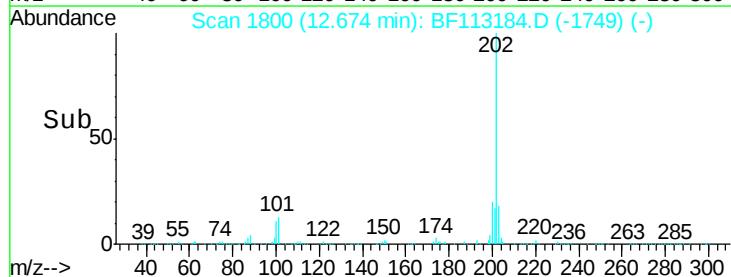
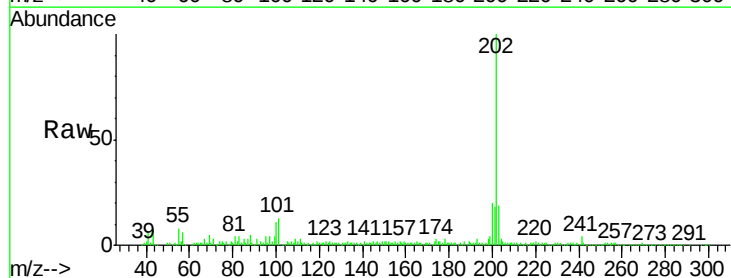
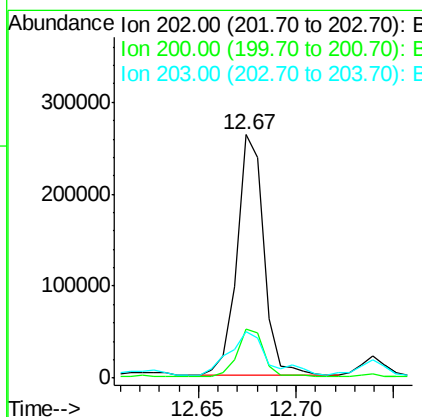
Manual Integrations
APPROVED

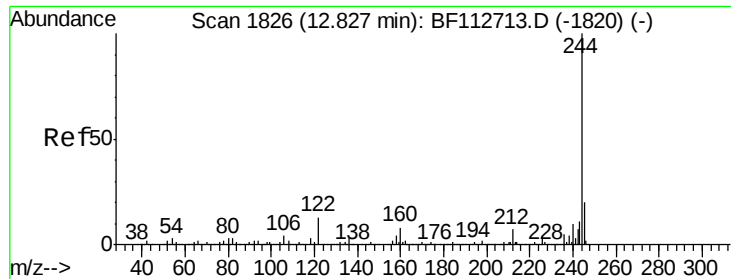
Sohil
3/21/2019 6:36:22 PM



#78
Pyrene
Concen: 8.373 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.3	17.1	25.7
203	18.9	14.6	21.8





#79

Terphenyl-d14

Concen: 4.858 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.00 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Instrument :

BNA_F

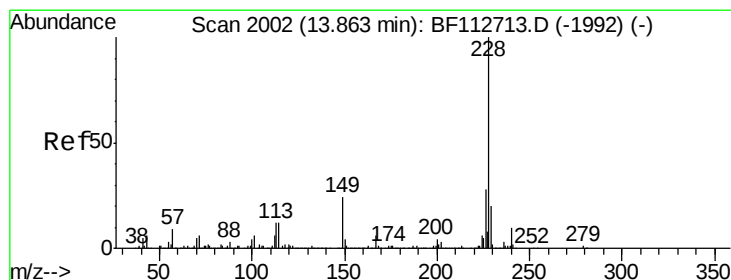
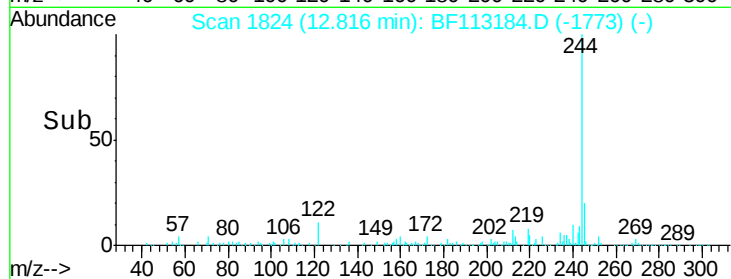
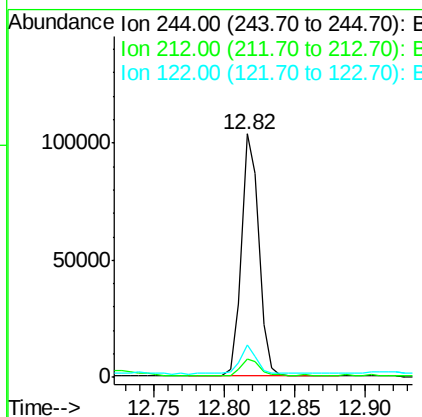
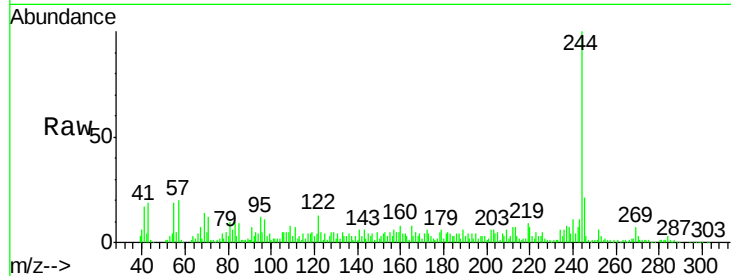
ClientSampled :

SB-13(10-11)

Tgt Ion:	244	Resp:	89122
Ion Ratio	Lower	Upper	
244	100		
212	7.4	5.7	8.5
122	13.1	9.4	14.2

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM



#81

Benzo(a)anthracene

Concen: 4.183 ng

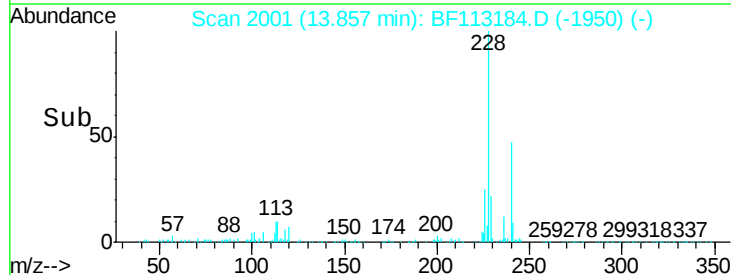
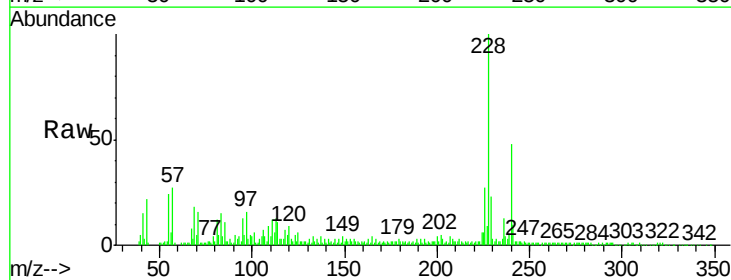
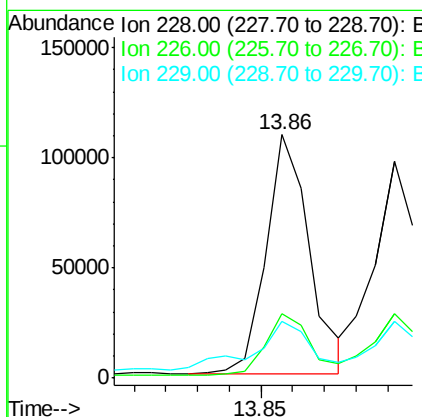
RT: 13.86 min Scan# 2001

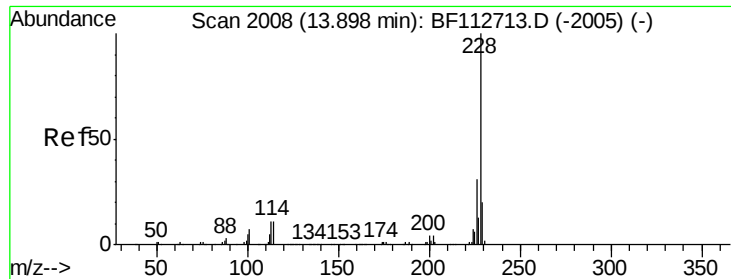
Delta R.T. -0.00 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Tgt Ion:	228	Resp:	103083
Ion Ratio	Lower	Upper	
228	100		
226	26.6	22.0	33.0
229	23.4	16.0	24.0





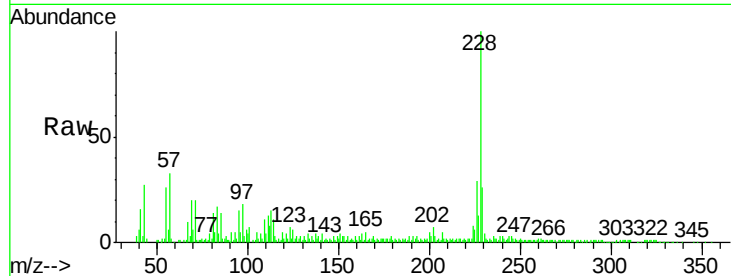
#83
Chrysene
Concen: 3.811 ng m
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Instrument :
BNA_F
ClientSampled :
SB-13(10-11)

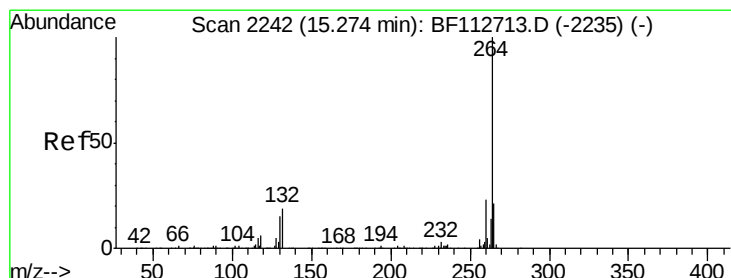
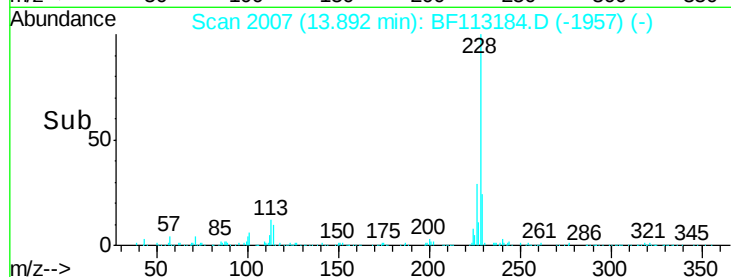
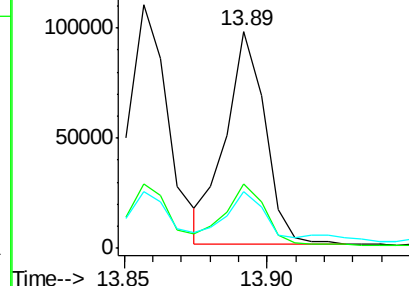
Tgt Ion	Ratio	Resp	Lower	Upper
228	100	92012		
226	29.5	24.6	36.8	
229	26.4	16.2	24.2	

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM

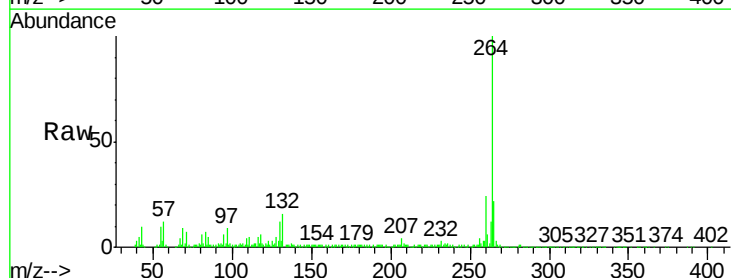


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

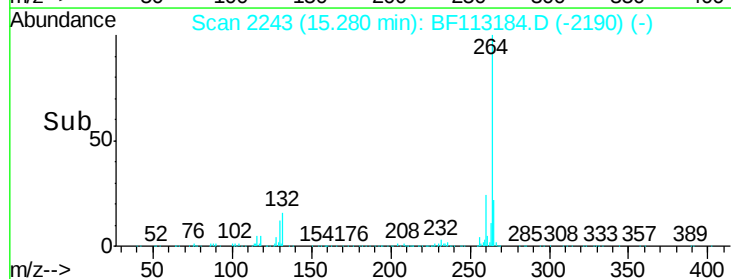
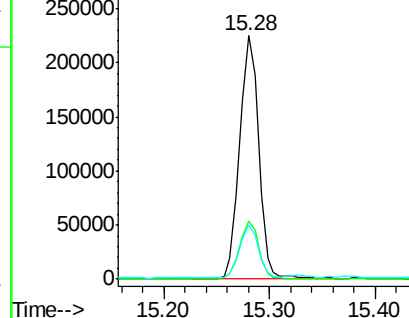


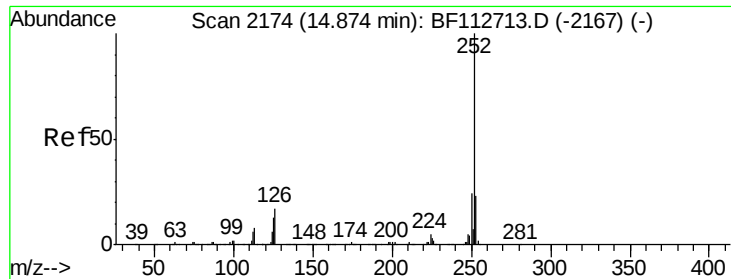
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	278476		
260	24.0	19.2	28.8	
265	22.1	17.7	26.5	



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





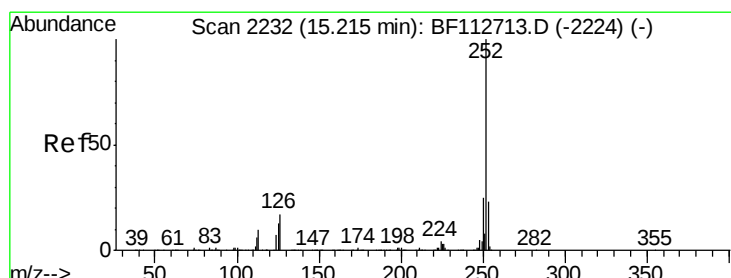
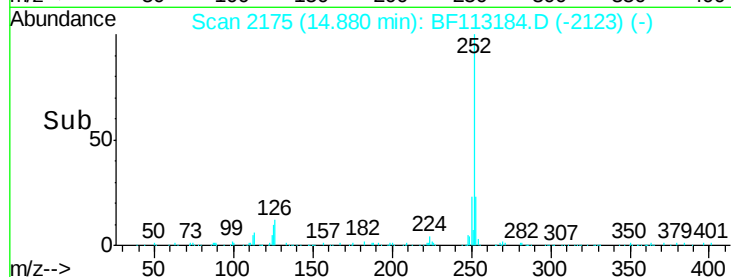
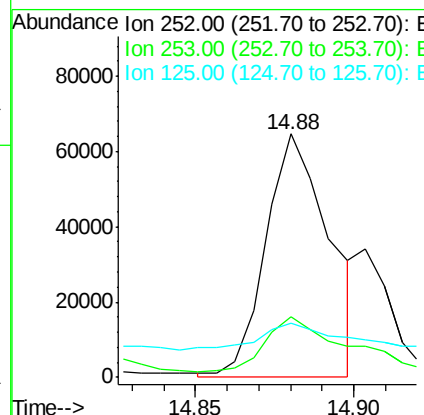
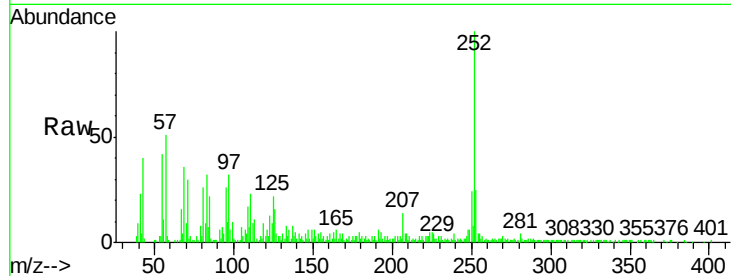
#88
Benzo(b)fluoranthene
Concen: 4.988 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Instrument :
BNA_F
ClientSampleId :
SB-13(10-11)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.2	27.4
125	22.4	8.0	12.0

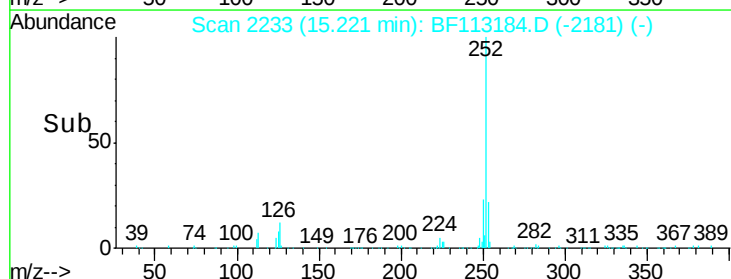
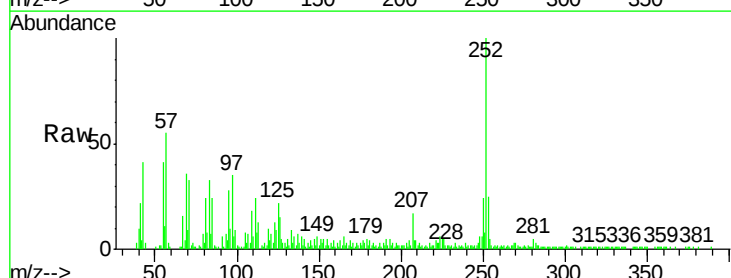
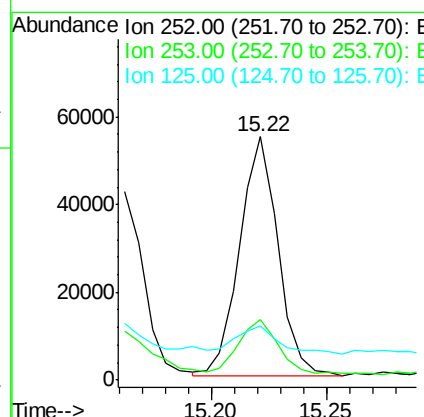
Manual Integrations
APPROVED

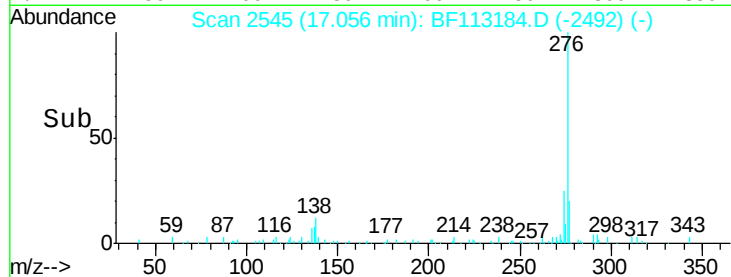
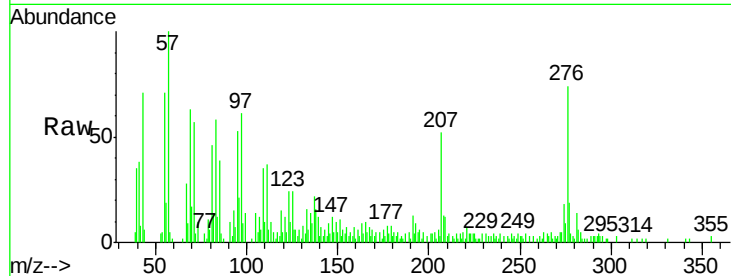
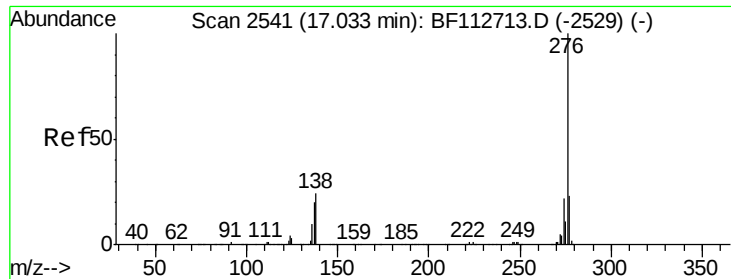
Sohil
3/21/2019 6:36:22 PM



#90
Benzo(a)pyrene
Concen: 3.951 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.01 min
Lab File: BF113184.D
Acq: 20 Mar 2019 21:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.8	26.6
125	22.2	9.1	13.7





#92

Benzo(g,h,i)perylene

Concen: 2.139 ng

RT: 17.06 min Scan# 2545

Delta R.T. 0.01 min

Lab File: BF113184.D

Acq: 20 Mar 2019 21:26

Instrument :

BNA_F

ClientSampleId :

SB-13(10-11)

Tgt Ion:	276	Resp:	29195
Ion Ratio		Lower	Upper
276	100		
277	25.8	19.4	29.0
138	21.7	16.2	24.4

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:22 PM

