

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092518\
 Data File : BF109289.D
 Acq On : 25 Sep 2018 16:52
 Operator : JU/SJ
 Sample : J4775-11 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-092418-B

Manual Integrations
 APPROVED

Sohil
 9/26/2018 3:41:53 PM

Quant Time: Sep 26 10:06:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 22 13:32:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	124341	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	476254	20.00	ng	0.00
38) Acenaphthene-d10	9.74	164	214346	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	347299	20.00	ng	0.00
75) Chrysene-d12	13.84	240	289790	20.00	ng	0.00
86) Perylene-d12	15.25	264	236047	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.31	112	241865	32.04	ng	0.00
7) Phenol-d6	6.34	99	315767	32.78	ng	-0.02
23) Nitrobenzene-d5	7.26	82	193773	24.02	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	64234	30.40	ng	-0.01
44) 2-Fluorobiphenyl	9.06	172	387199	27.24	ng	-0.01
78) Terphenyl-d14	12.80	244	302878	25.65	ng	0.00
Target Compounds						
48) Acenaphthylene	9.60	152	54368	2.583	ng	98
49) Dimethylphthalate	9.46	163	99233	6.365	ng	99
51) Acenaphthene	9.77	154	38036	2.989	ng	97
54) Dibenzofuran	9.95	168	46192	2.441	ng	# 97
57) Fluorene	10.29	166	103672	7.678	ng	99
70) Phenanthrene	11.24	178	611289	35.252	ng	98
71) Anthracene	11.29	178	149201	8.483	ng	98
74) Fluoranthene	12.43	202	693217	37.408	ng	97
77) Pyrene	12.66	202	595557	28.676	ng	99
80) Benzo(a)anthracene	13.84	228	291291	16.688	ng	96
82) Chrysene	13.87	228	263308	15.220	ng	97
85) Indeno(1,2,3-cd)pyrene	16.60	276	91738	6.542	ng	# 90
87) Benzo(b)fluoranthene	14.86	252	253141m	19.517	ng	
88) Benzo(k)fluoranthene	14.88	252	93879m	7.627	ng	
89) Benzo(a)pyrene	15.19	252	179442	15.353	ng	97
90) Dibenzo(a,h)anthracene	16.61	278	25593	2.669	ng	# 90
91) Benzo(g,h,i)perylene	17.00	276	80785	8.573	ng	# 93

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



#1

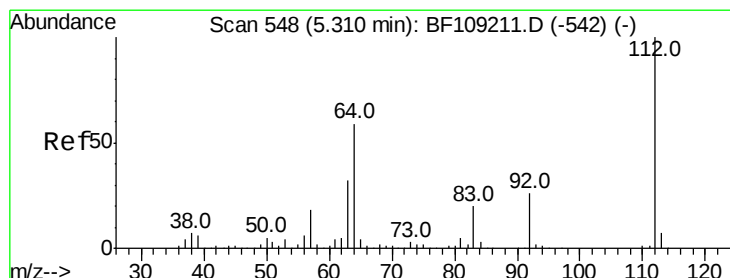
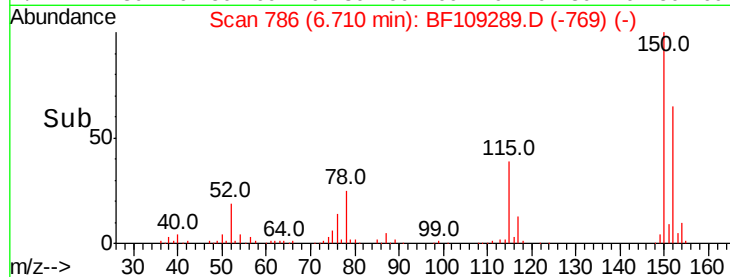
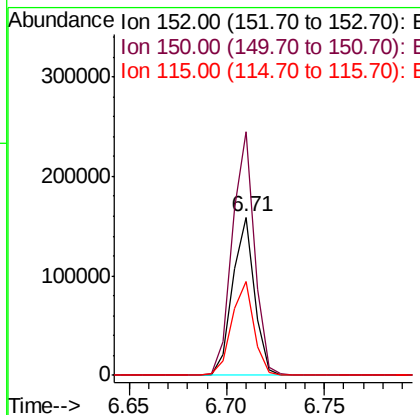
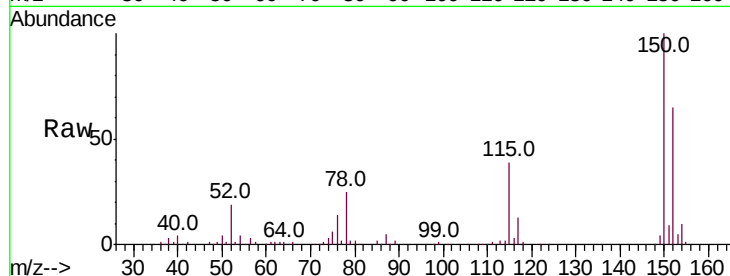
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.71 min Scan# 786
 Delta R.T. -0.00 min
 Lab File: BF109289.D
 Acq: 25 Sep 2018 16:52

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-092418-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.6	186.8
115	59.3	50.1	75.1

Manual Integrations
 APPROVED

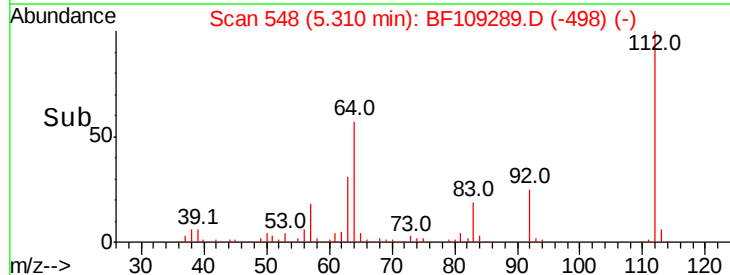
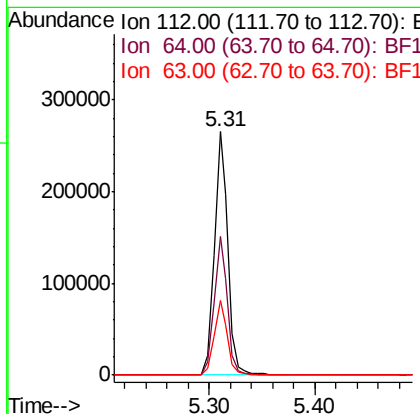
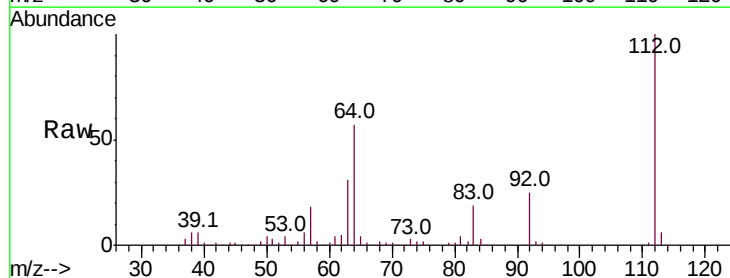
Sohil
 9/26/2018 3:41:53 PM



#5

2-Fluorophenol
 Concen: 32.039 ng
 RT: 5.31 min Scan# 548
 Delta R.T. -0.01 min
 Lab File: BF109289.D
 Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	47.9	71.9
63	30.6	23.7	35.5





#7

Phenol-d6

Concen: 32.780 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Instrument :

BNA_F

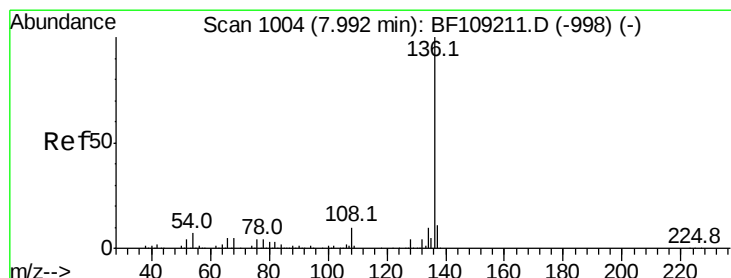
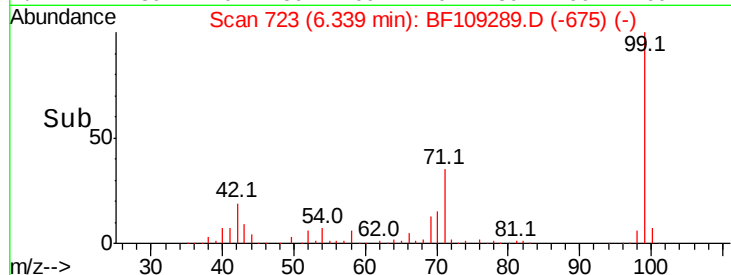
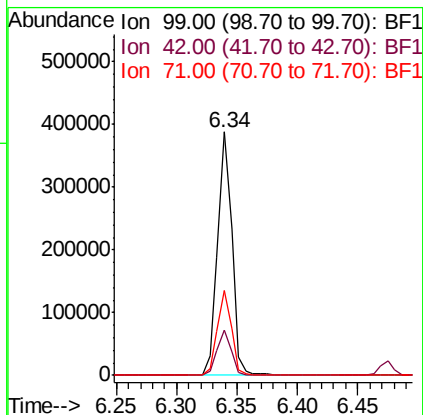
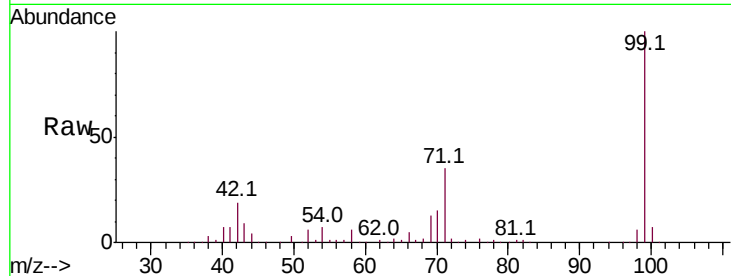
ClientSampled :

OR-01-092418-B

Tot Ion:	99	Resp:	315767
Ion Ratio	Lower	Upper	
99	100		
42	18.7	14.5	21.7
71	34.7	25.4	38.0

Manual Integrations
APPROVED

Sohil
9/26/2018 3:41:53 PM



#21

Naphthalene-d8

Concen: 20.000 ng

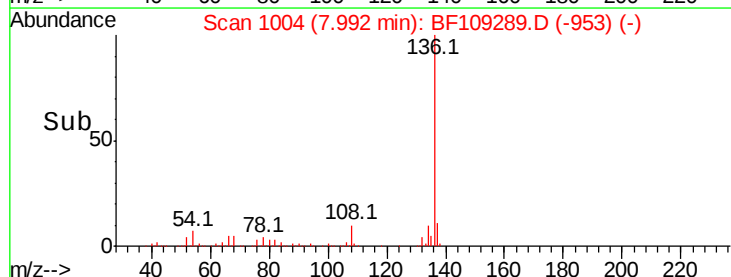
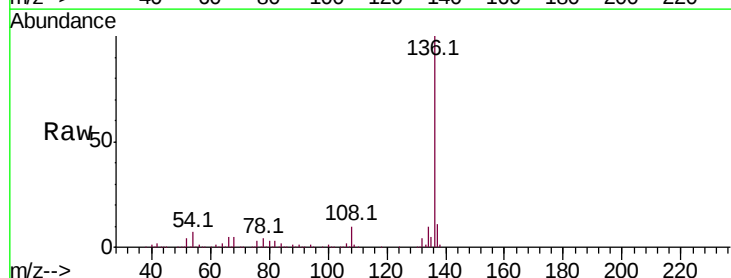
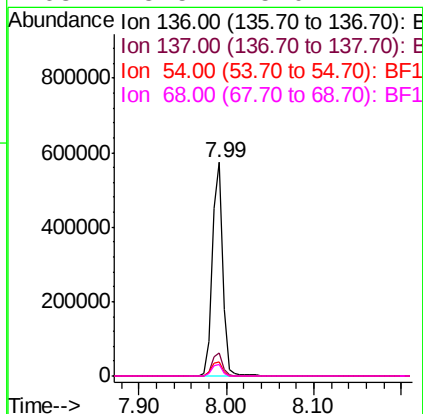
RT: 7.99 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Tgt Ion:	136	Resp:	476254
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	6.6	6.6	9.8
68	5.5	5.0	7.4





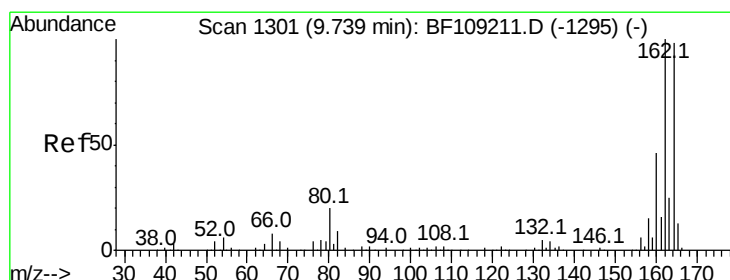
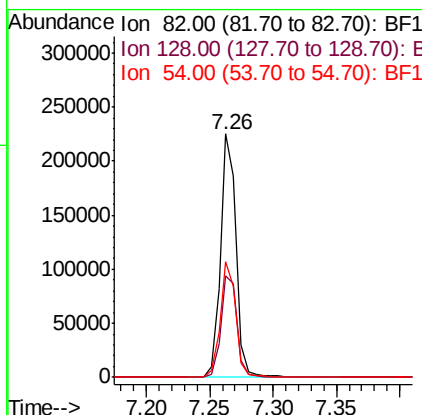
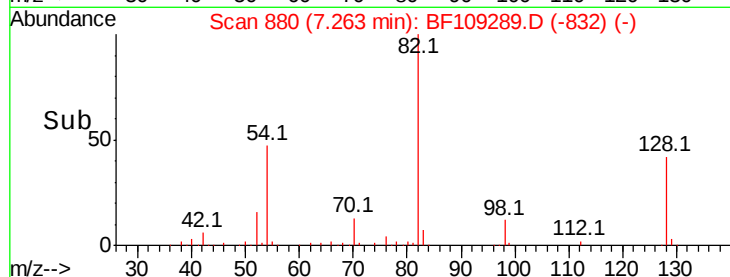
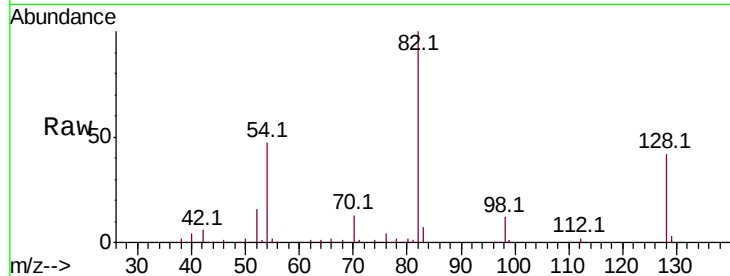
#23
 Nitrobenzene-d5
 Concen: 24.018 ng
 RT: 7.26 min Scan# 880
 Delta R.T. -0.02 min
 Lab File: BF109289.D
 Acq: 25 Sep 2018 16:52

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-092418-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.8	36.1	54.1
54	47.3	41.4	62.2

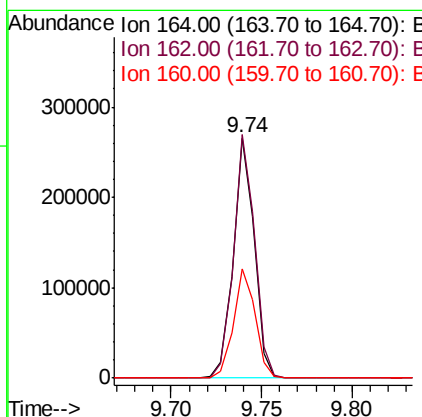
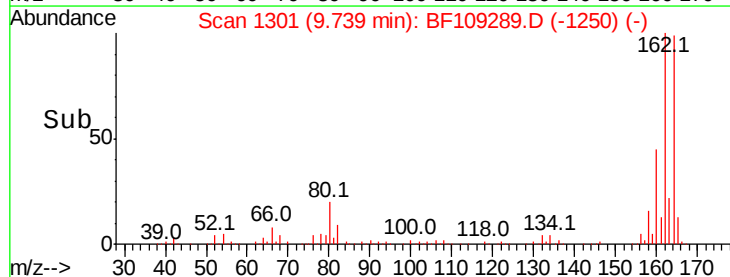
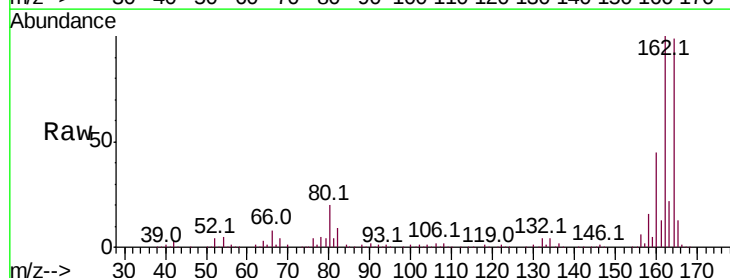
Manual Integrations
 APPROVED

Sohil
 9/26/2018 3:41:53 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.74 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: BF109289.D
 Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	86.1	129.1
160	45.7	38.3	57.5





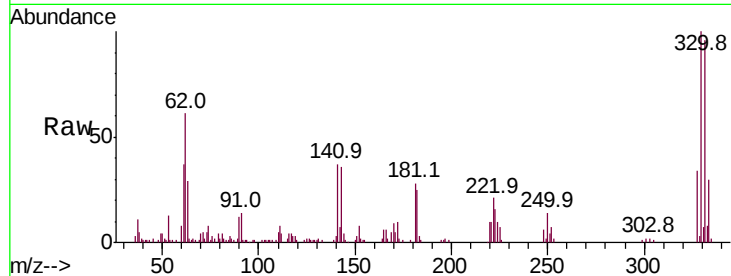
#41
 2,4,6-Tribromophenol
 Concen: 30.399 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF109289.D
 Acq: 25 Sep 2018 16:52

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-092418-B

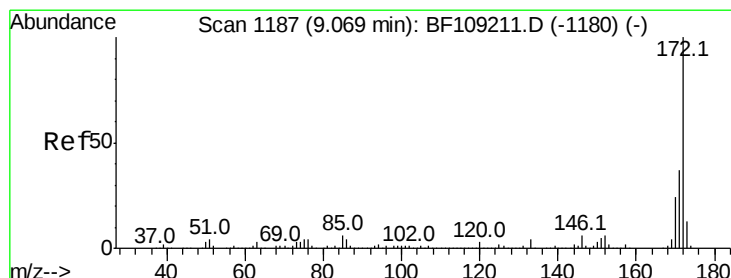
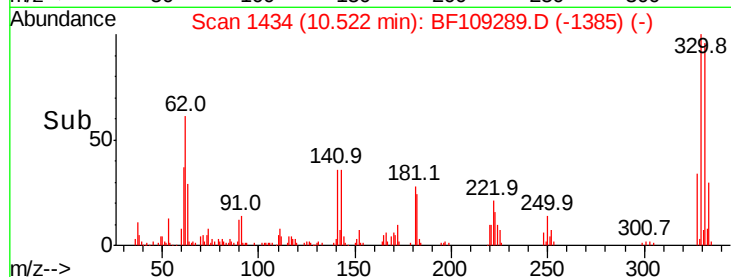
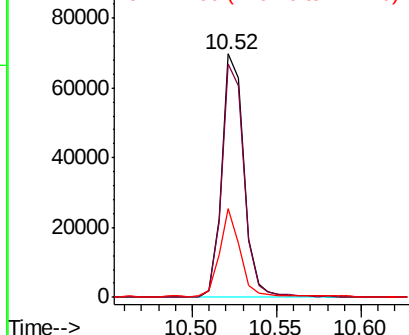
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.0	115.6
141	35.6	29.9	44.9

Manual Integrations
 APPROVED

Sohil
 9/26/2018 3:41:53 PM

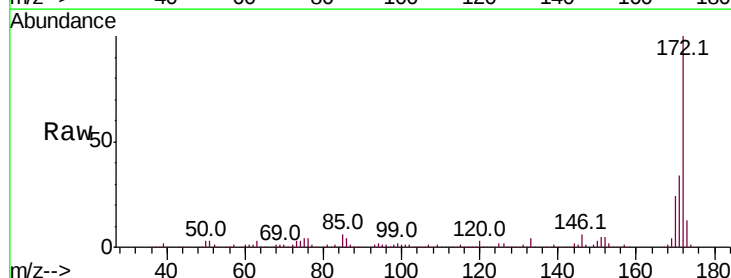


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

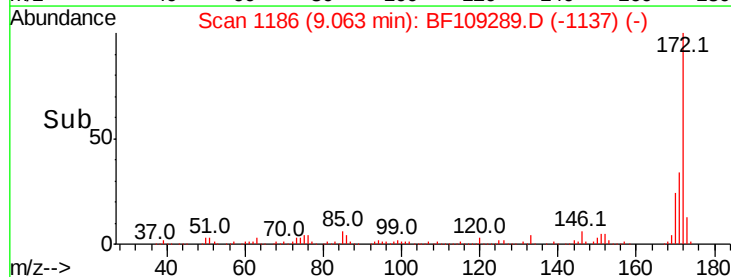
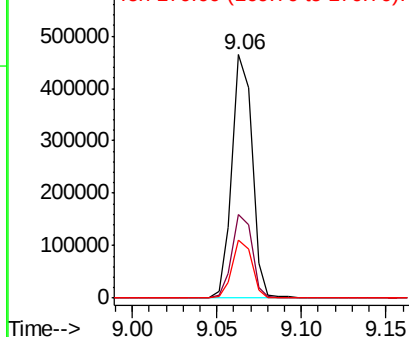


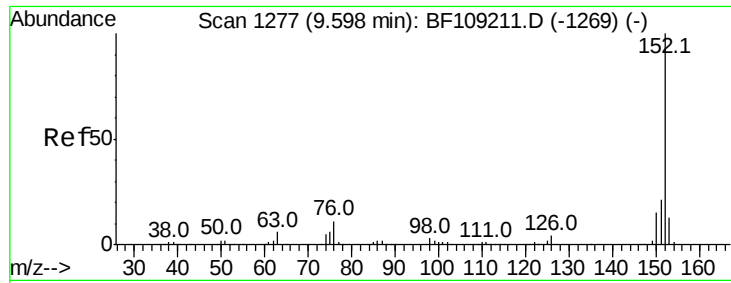
#44
 2-Fluorobiphenyl
 Concen: 27.244 ng
 RT: 9.06 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF109289.D
 Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	29.7	44.5
170	23.7	19.6	29.4



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





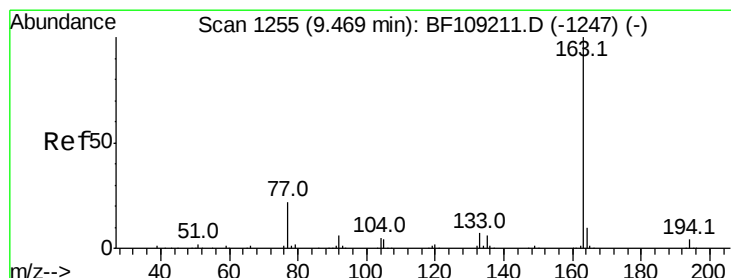
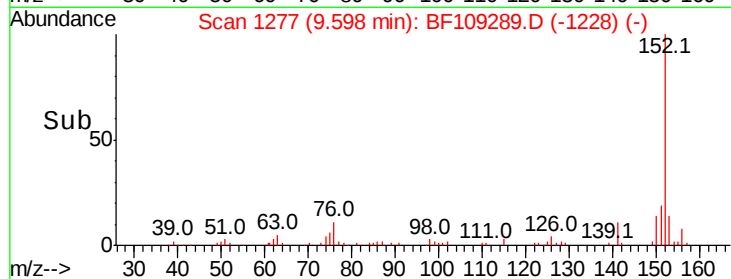
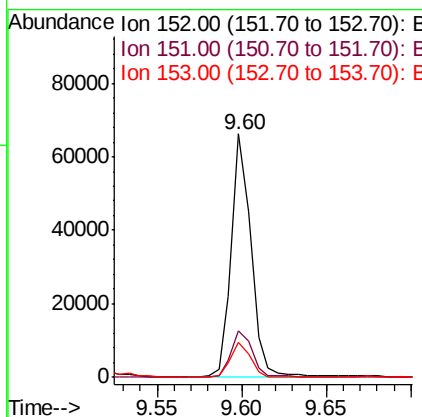
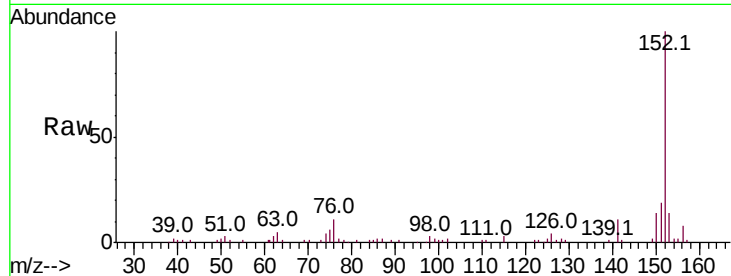
#48
Acenaphthylene
Concen: 2.583 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Instrument :
BNA_F
ClientSampleId :
OR-01-092418-B

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.3	24.5
153	14.1	10.7	16.1

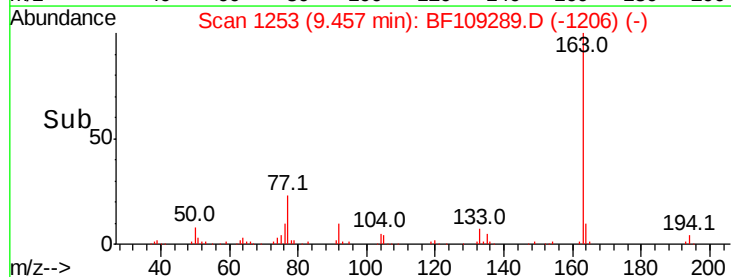
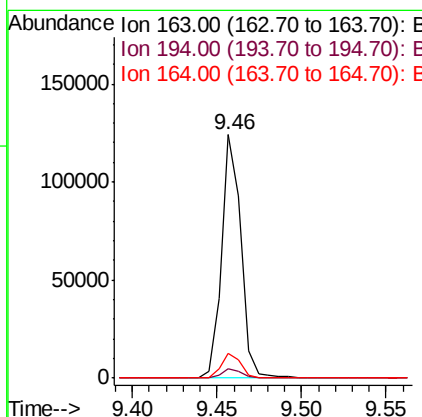
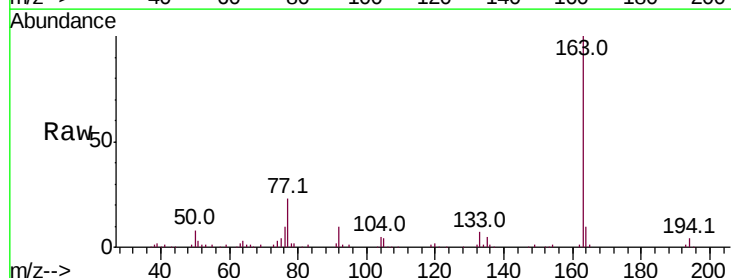
Manual Integrations
APPROVED

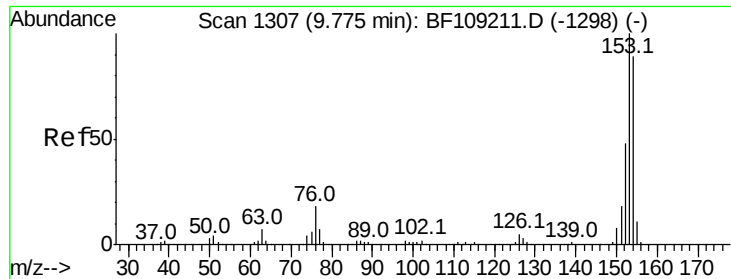
Sohil
9/26/2018 3:41:53 PM



#49
Dimethylphthalate
Concen: 6.365 ng
RT: 9.46 min Scan# 1253
Delta R.T. -0.02 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.7	4.1
164	10.0	8.2	12.2





#51

Acenaphthene

Concen: 2.989 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Instrument :

BNA_F

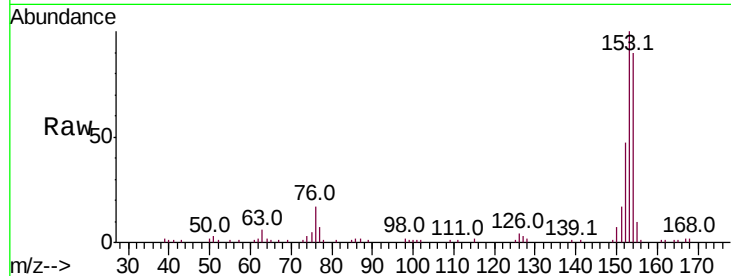
ClientSampleId :

OR-01-092418-B

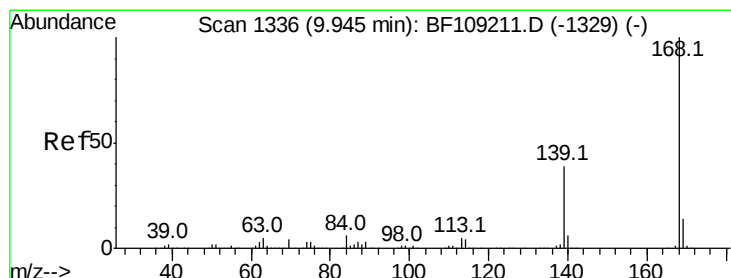
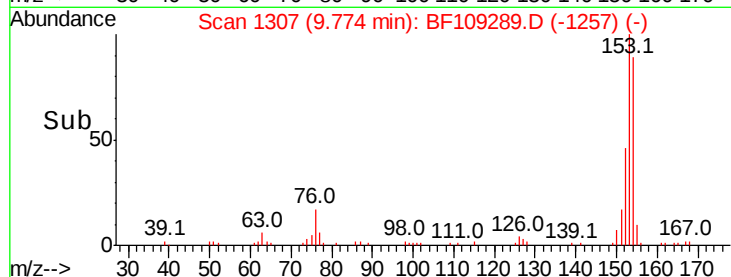
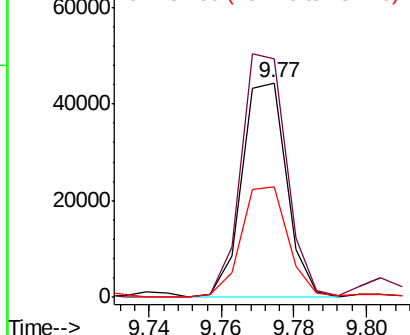
Tot Ion:	154	Resp:	38036
Ion Ratio	Lower	Upper	
154	100		
153	111.3	91.2	136.8
152	51.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
9/26/2018 3:41:53 PM



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



#54

Dibenzofuran

Concen: 2.441 ng

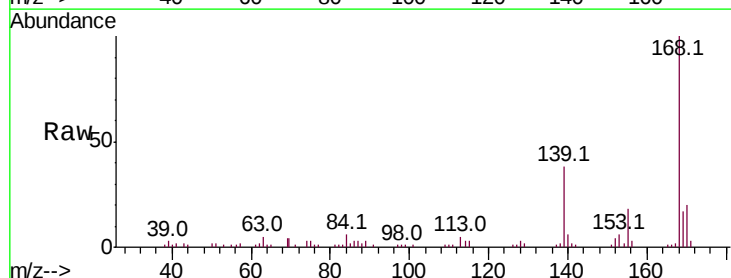
RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

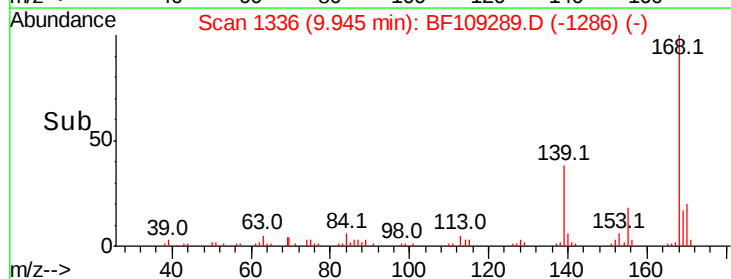
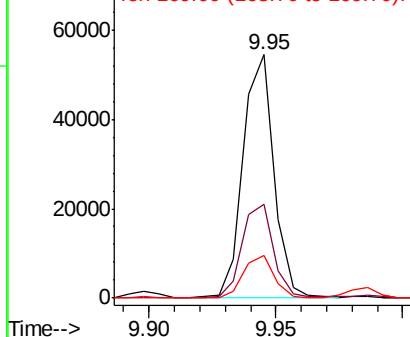
Lab File: BF109289.D

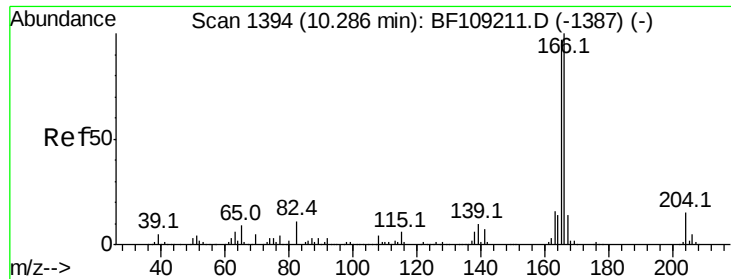
Acq: 25 Sep 2018 16:52

Tgt Ion:	168	Resp:	46192
Ion Ratio	Lower	Upper	
168	100		
139	38.4	30.1	45.1
169	17.3	10.9	16.3#



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





#57

Fluorene

Concen: 7.678 ng

RT: 10.29 min Scan# 1394

Delta R.T. -0.01 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Instrument :

BNA_F

ClientSampleId :

OR-01-092418-B

Tot Ion:166 Resp: 103672

Ion Ratio Lower Upper

166 100

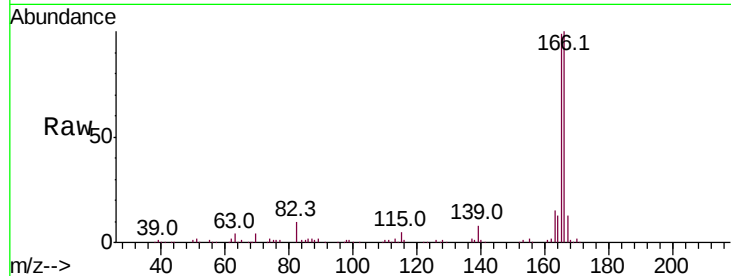
165 98.6 79.8 119.8

167 13.0 10.6 16.0

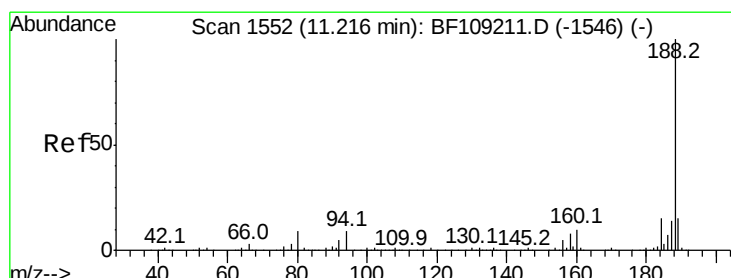
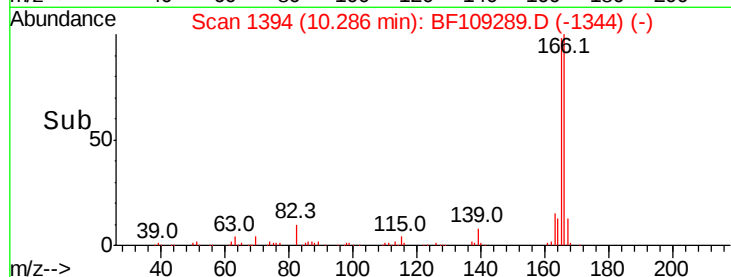
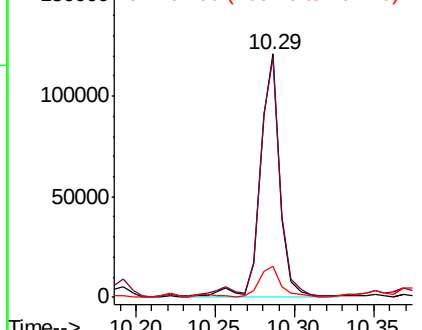
Manual Integrations
APPROVED

Sohil

9/26/2018 3:41:53 PM



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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.22 min Scan# 1552

Delta R.T. -0.00 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

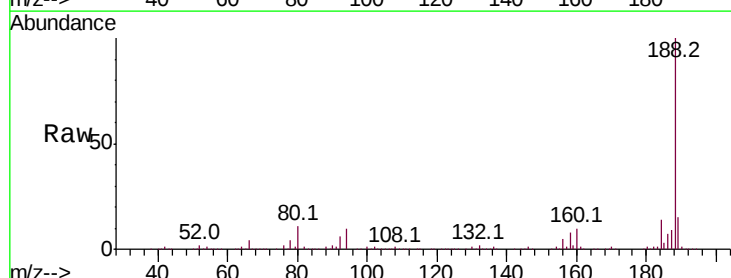
Tgt Ion:188 Resp: 347299

Ion Ratio Lower Upper

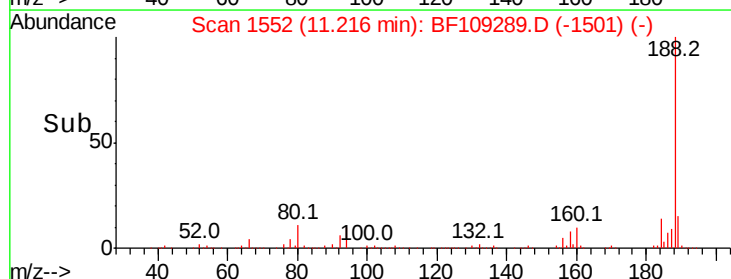
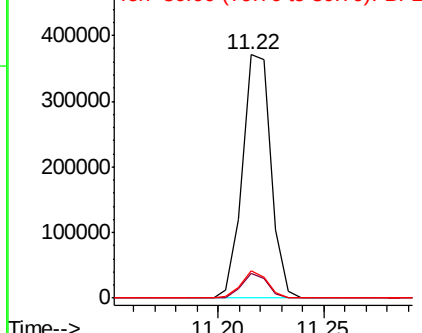
188 100

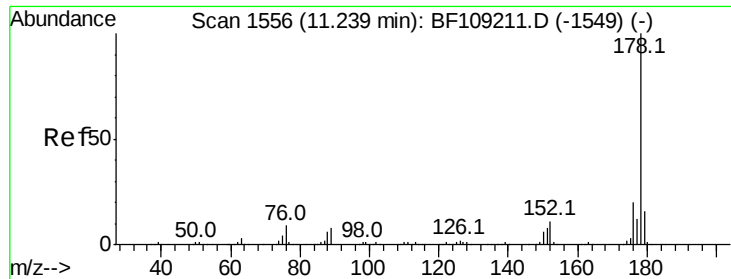
94 10.4 8.5 12.7

80 11.2 9.2 13.8



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





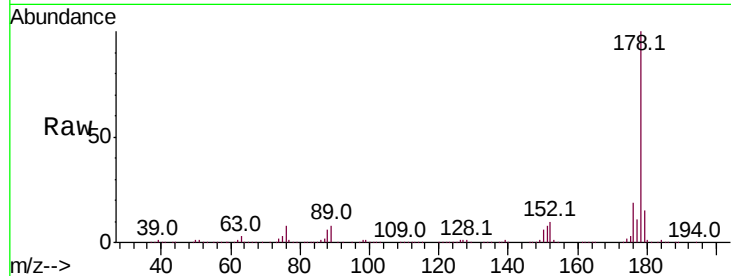
#70
Phenanthrene
Concen: 35.252 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.00 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Instrument :
BNA_F
ClientSampleId :
OR-01-092418-B

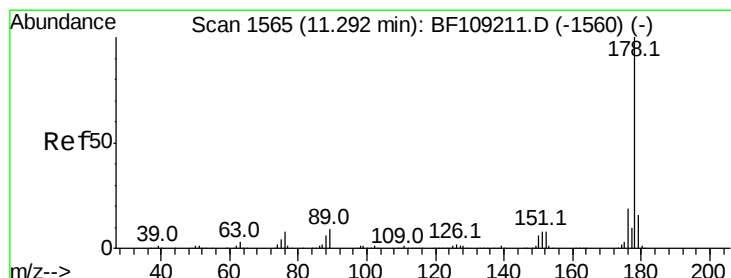
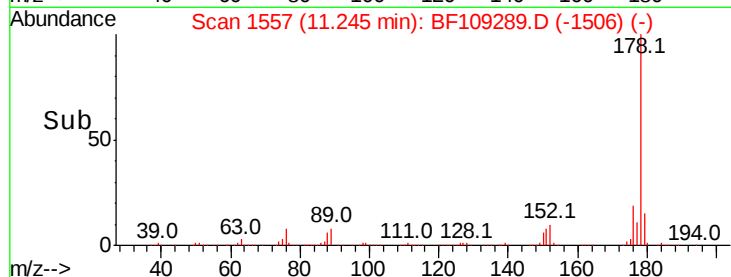
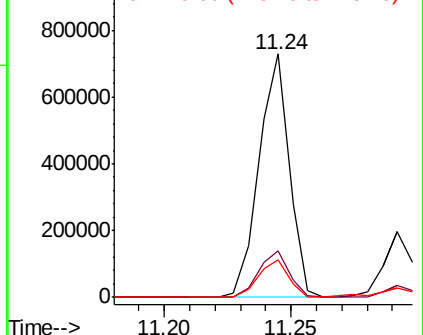
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.3	13.0	19.6

Manual Integrations
APPROVED

Sohil
9/26/2018 3:41:53 PM



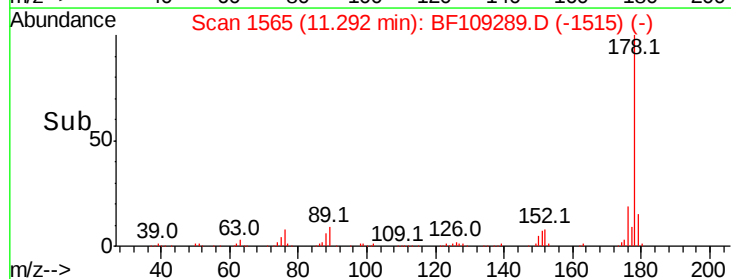
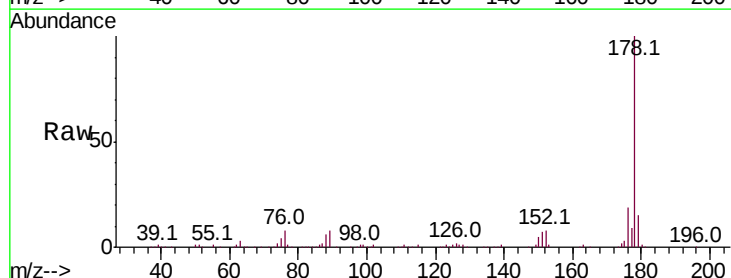
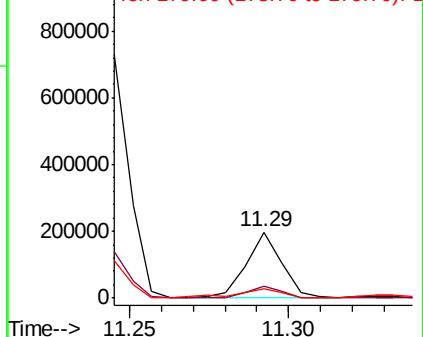
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

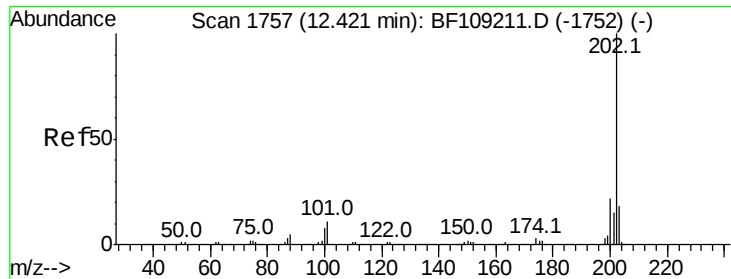


#71
Anthracene
Concen: 8.483 ng
RT: 11.29 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.0	12.6	19.0

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





#74

Fluoranthene

Concen: 37.408 ng

RT: 12.43 min Scan# 1758

Delta R.T. -0.00 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Instrument :

BNA_F

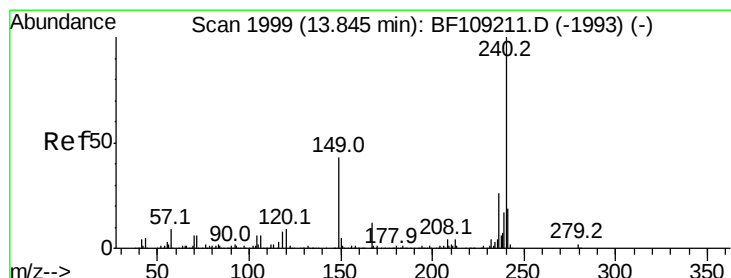
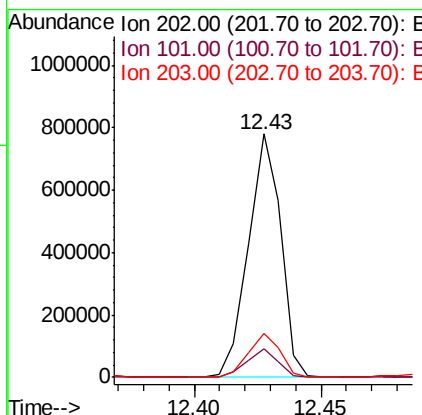
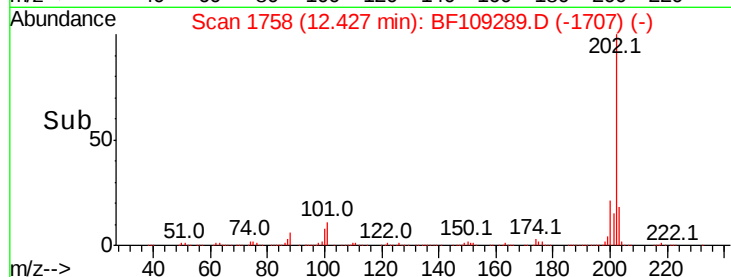
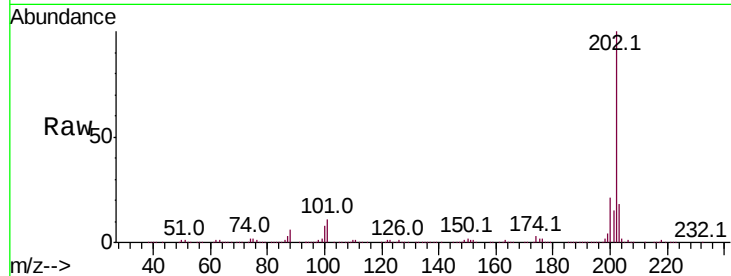
ClientSampled :

OR-01-092418-B

Tot Ion:	202	Resp:	693217
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	34.1
203	17.8	0.0	38.1

Manual Integrations
APPROVED

Sohil
9/26/2018 3:41:53 PM



#75

Chrysene-d12

Concen: 20.000 ng

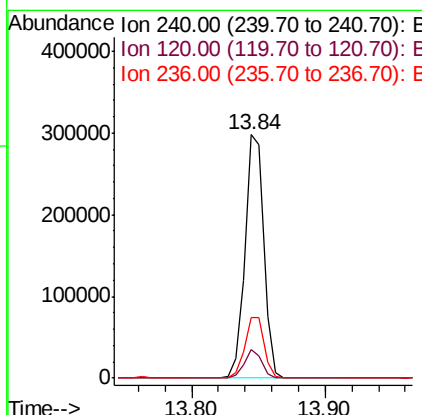
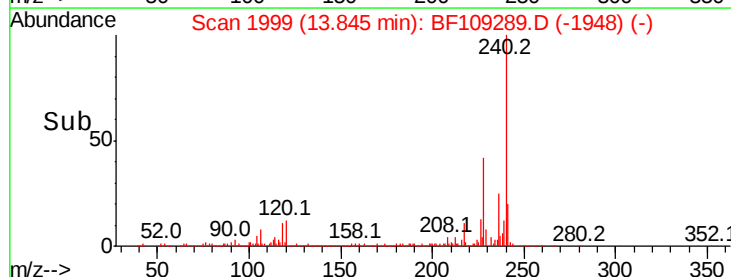
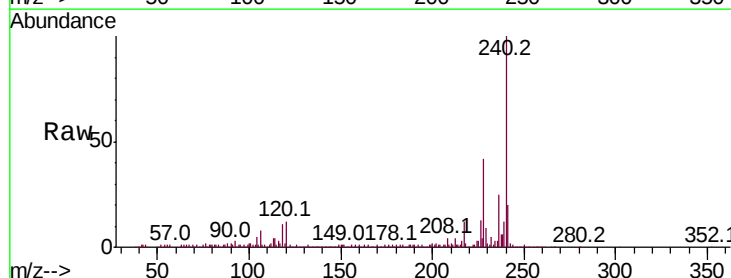
RT: 13.84 min Scan# 1999

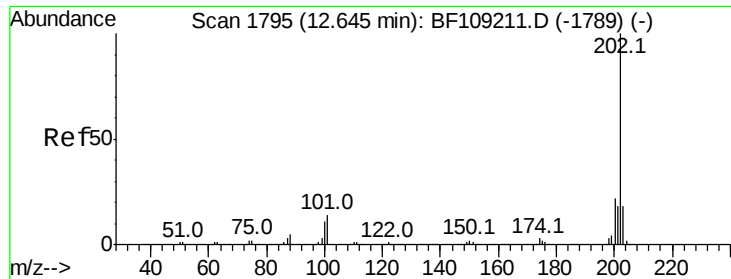
Delta R.T. -0.00 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Tgt Ion:	240	Resp:	289790
Ion Ratio	Lower	Upper	
240	100		
120	11.7	9.5	14.3
236	25.0	20.7	31.1





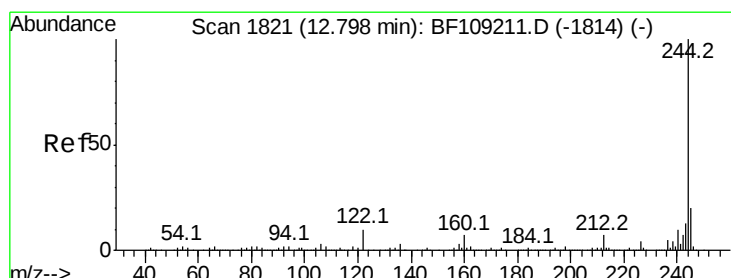
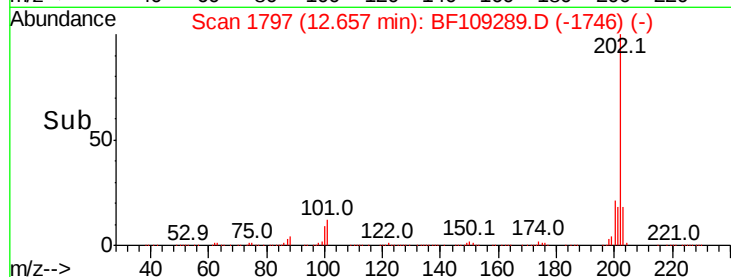
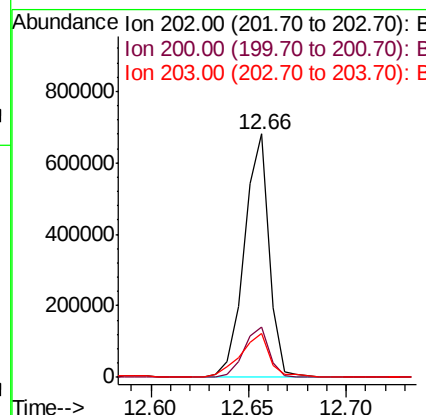
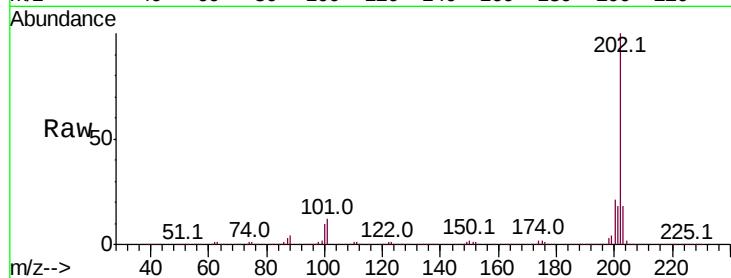
#77
Pvrene
Concen: 28.676 ng
RT: 12.66 min Scan# 1797
Delta R.T. -0.00 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Instrument :
BNA_F
ClientSampleId :
OR-01-092418-B

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.9	17.4	26.2
203	17.9	14.3	21.5

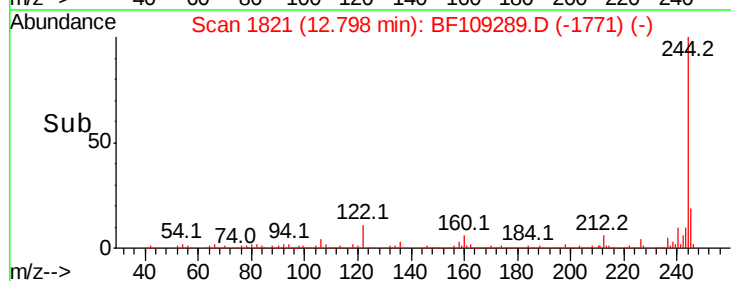
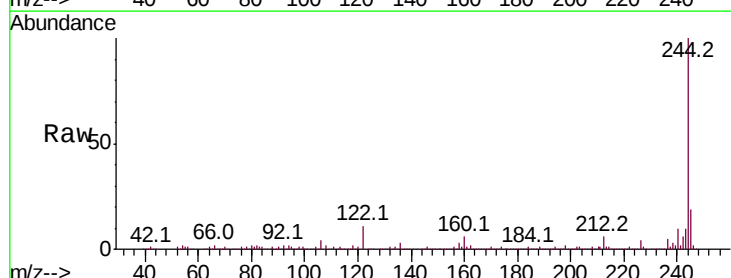
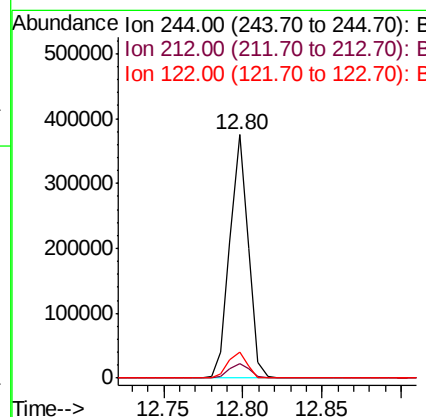
Manual Integrations
APPROVED

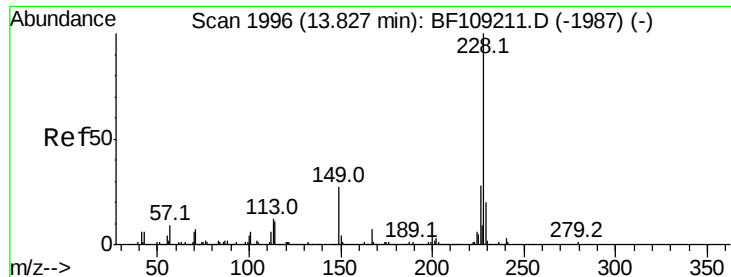
Sohil
9/26/2018 3:41:53 PM



#78
Terphenyl-d14
Concen: 25.650 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.2	5.4	8.0
122	10.9	11.0	16.4





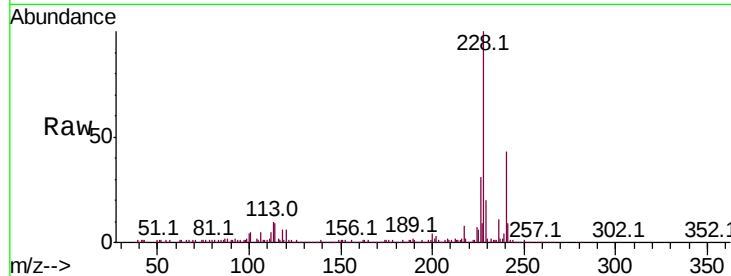
#80
Benzo(a)anthracene
Concen: 16.688 ng
RT: 13.84 min Scan# 1998
Delta R.T. 0.01 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Instrument :
BNA_F
ClientSampleId :
OR-01-092418-B

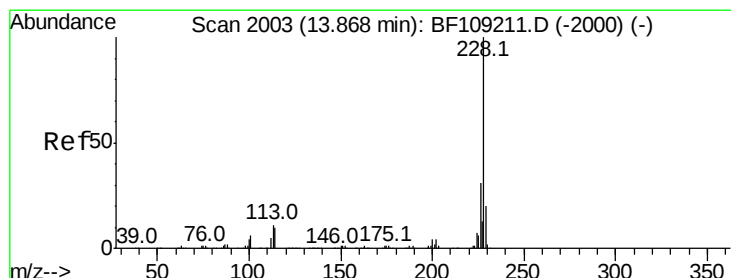
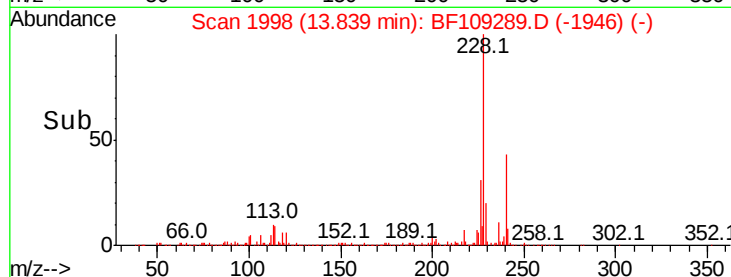
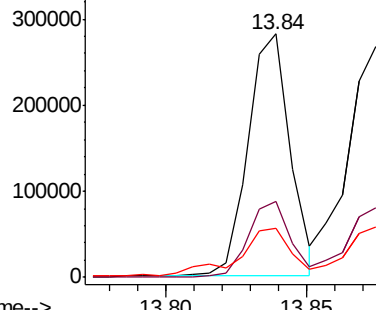
Tot Ion	Ratio	Resp	Lower	Upper
228	100	291291		
226	31.0	22.6	33.8	
229	20.2	15.8	23.6	

Manual Integrations
APPROVED

Sohil
9/26/2018 3:41:53 PM



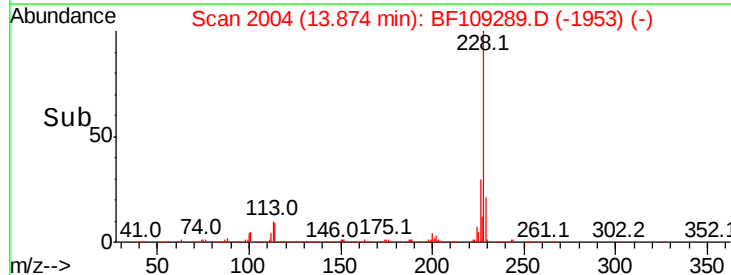
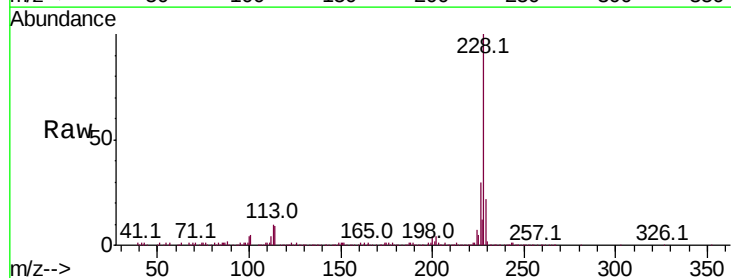
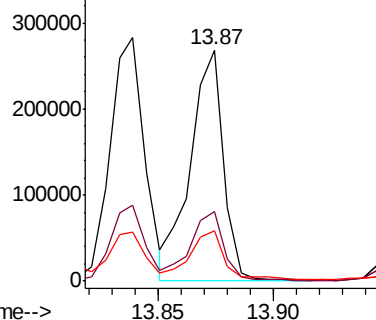
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

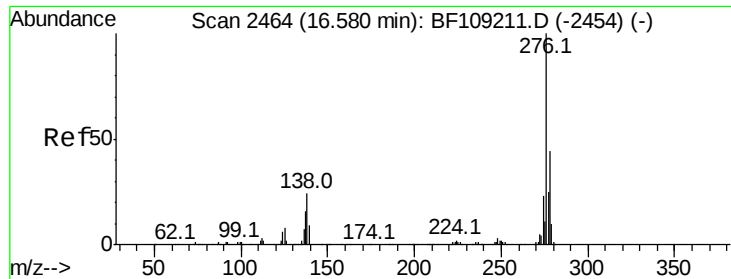


#82
Chrysene
Concen: 15.220 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.00 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	263308		
226	29.9	25.0	37.6	
229	21.5	16.2	24.4	

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





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.542 ng

RT: 16.60 min Scan# 2467

Delta R.T. 0.01 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Instrument :

BNA_F

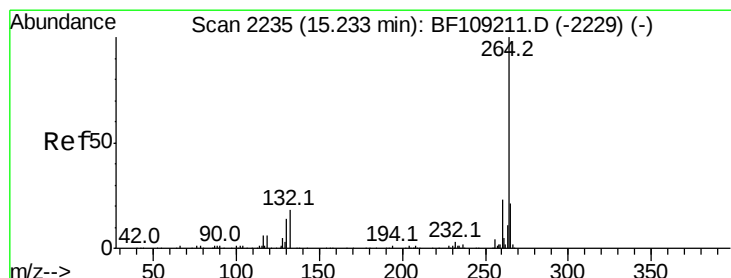
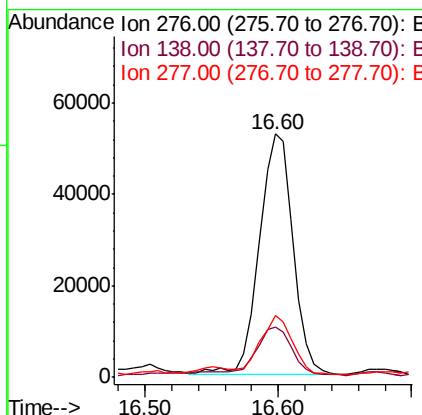
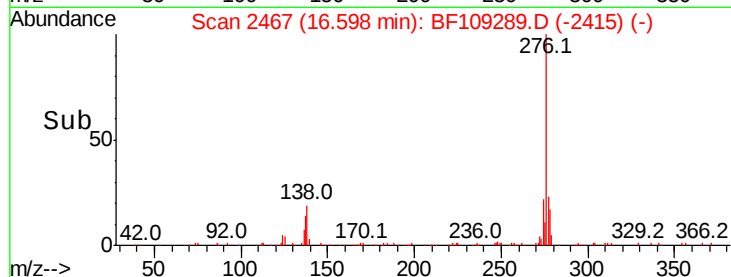
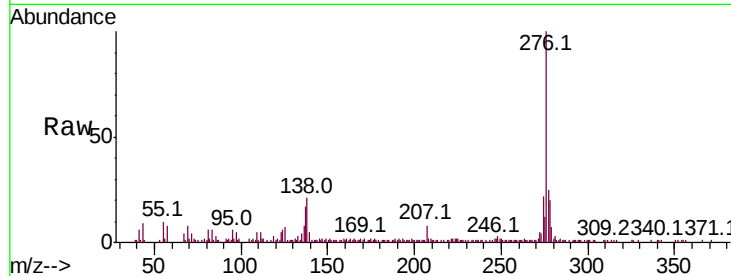
ClientSampleId :

OR-01-092418-B

Tot Ion:	276	Resp:	91738
Ion Ratio	Lower	Upper	
276	100		
138	22.8	25.0	37.6#
277	23.5	20.1	30.1

Manual Integrations
APPROVED

Sohil
9/26/2018 3:41:53 PM



#86

Perylene-d12

Concen: 20.000 ng

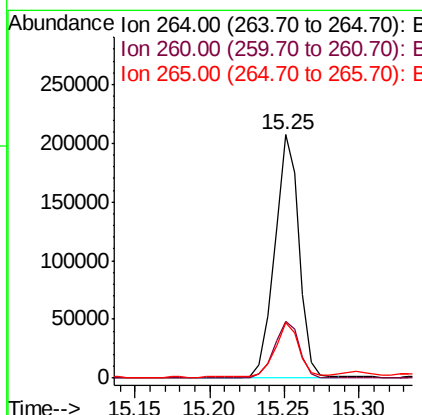
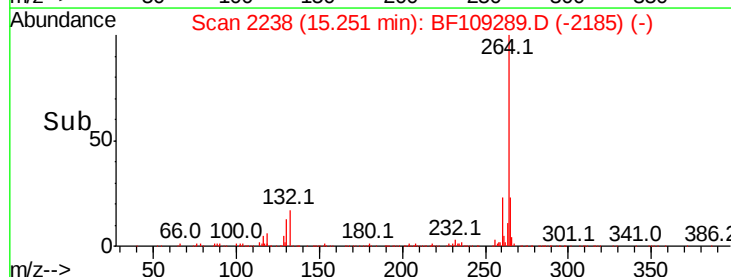
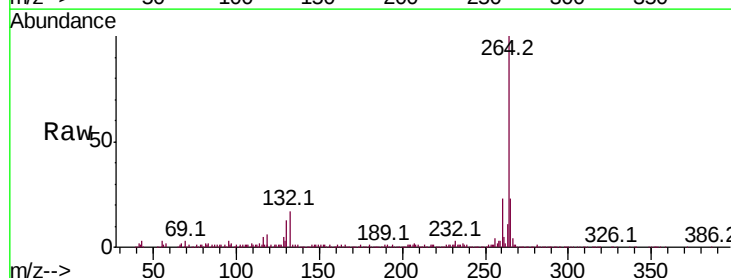
RT: 15.25 min Scan# 2238

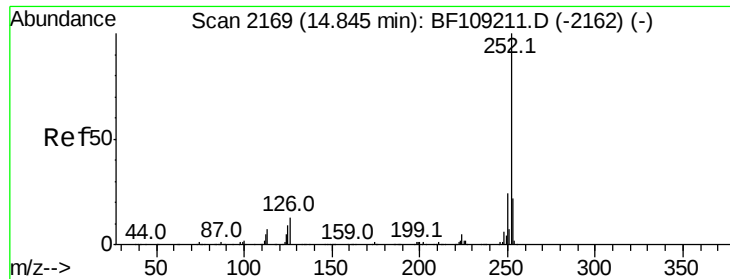
Delta R.T. 0.01 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Tgt Ion:	264	Resp:	236047
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.2	28.8
265	22.9	17.5	26.3





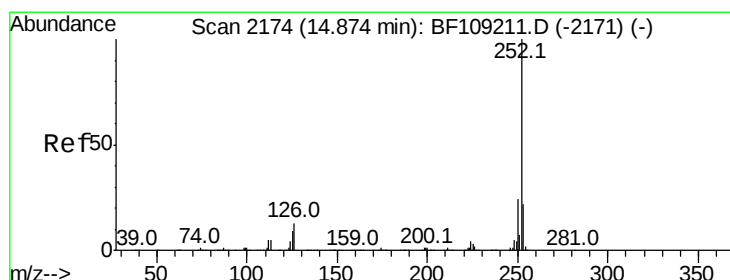
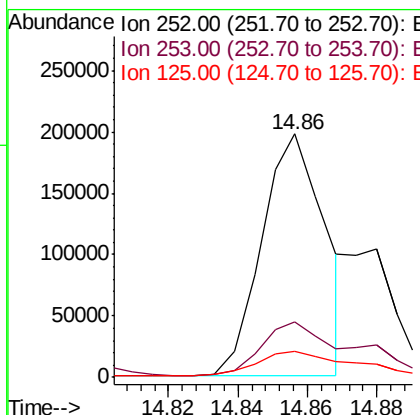
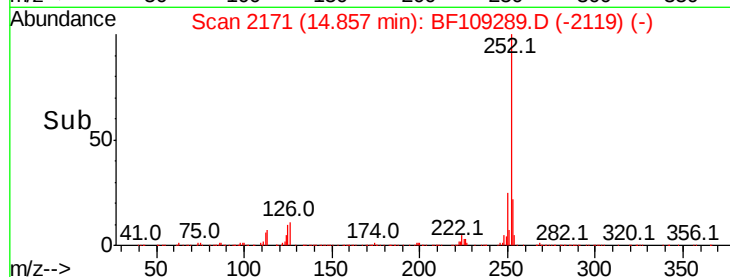
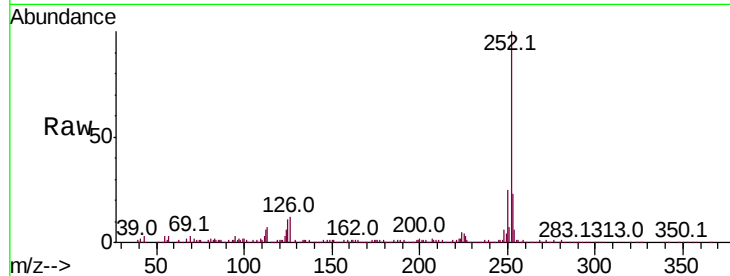
#87
Benzo(b)fluoranthene
Concen: 19.517 ng m
RT: 14.86 min Scan# 2171
Delta R.T. 0.01 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Instrument :
BNA_F
ClientSampleId :
OR-01-092418-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	10.7	9.0	13.6

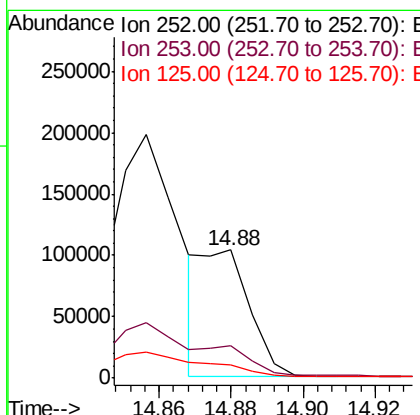
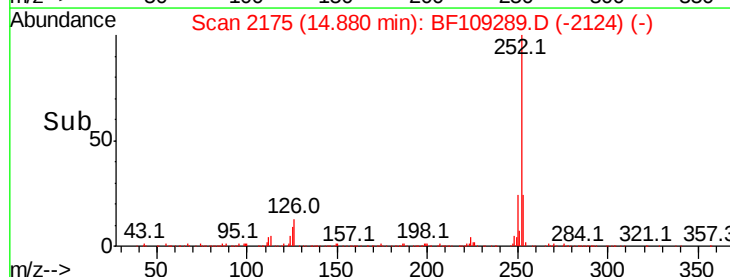
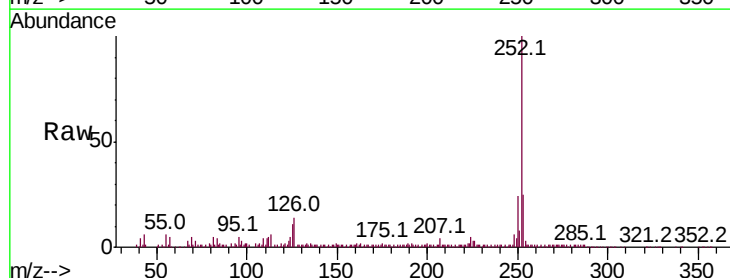
Manual Integrations
APPROVED

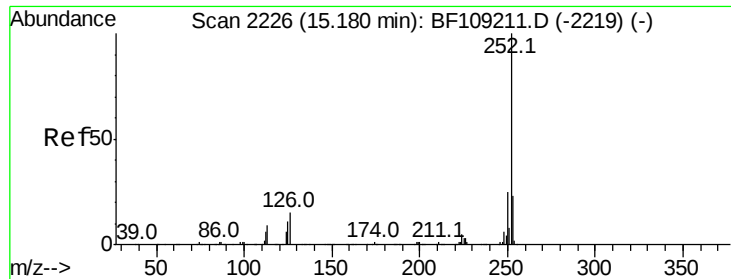
Sohil
9/26/2018 3:41:53 PM



#88
Benzo(k)fluoranthene
Concen: 7.627 ng m
RT: 14.88 min Scan# 2175
Delta R.T. -0.00 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	10.6	10.2	15.2





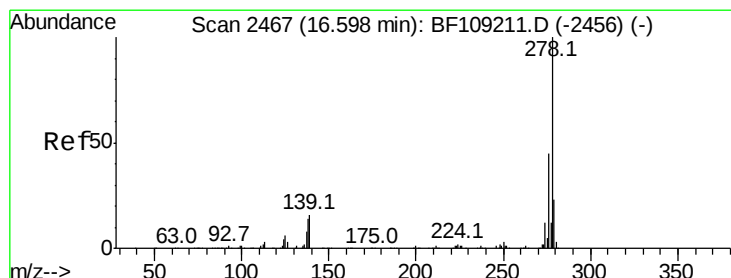
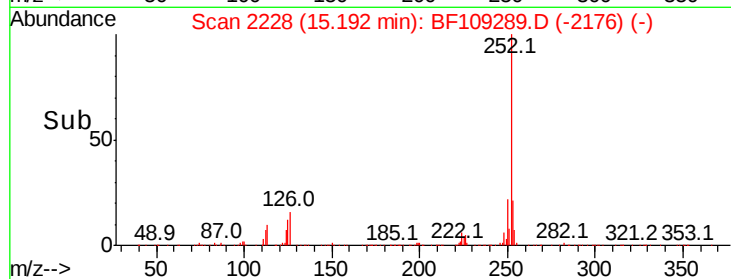
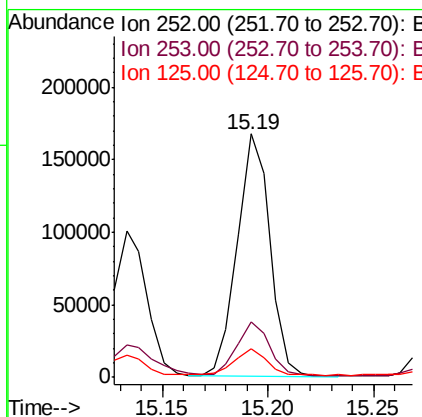
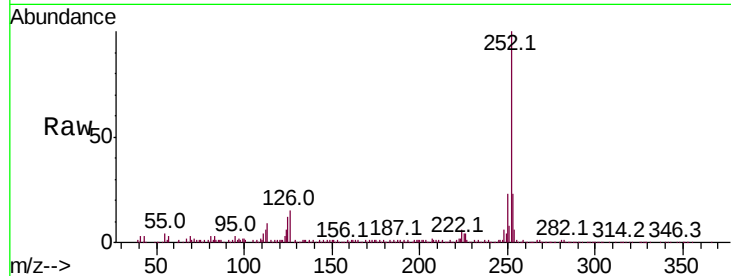
#89
Benzo(a)pyrene
Concen: 15.353 ng
RT: 15.19 min Scan# 2228
Delta R.T. 0.01 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Instrument :
BNA_F
ClientSampleId :
OR-01-092418-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	11.7	9.8	14.6

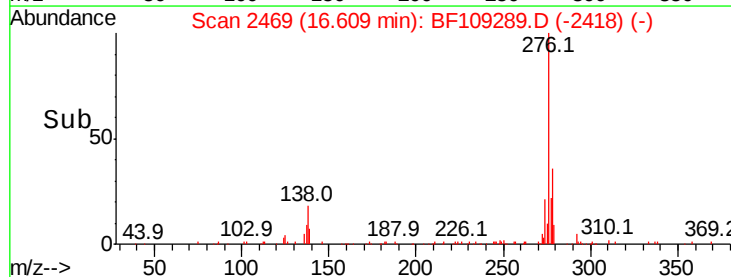
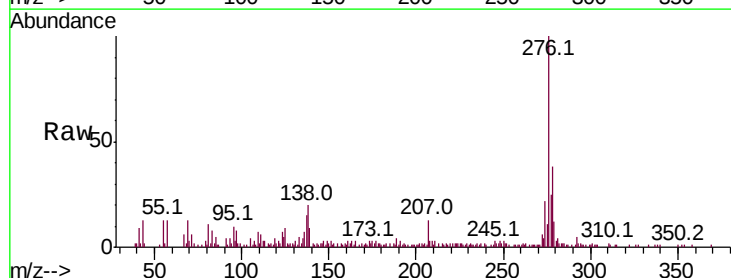
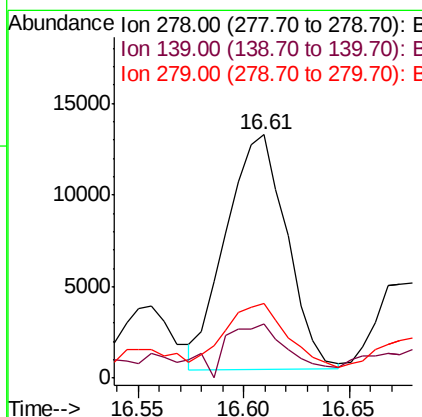
Manual Integrations
APPROVED

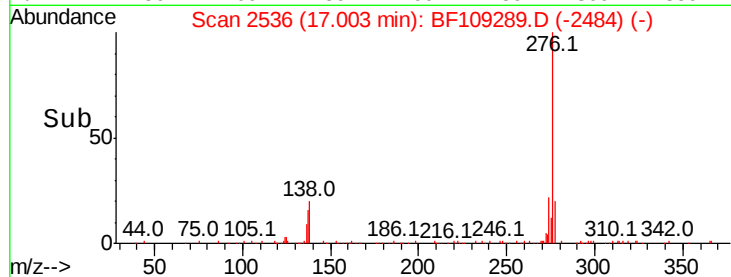
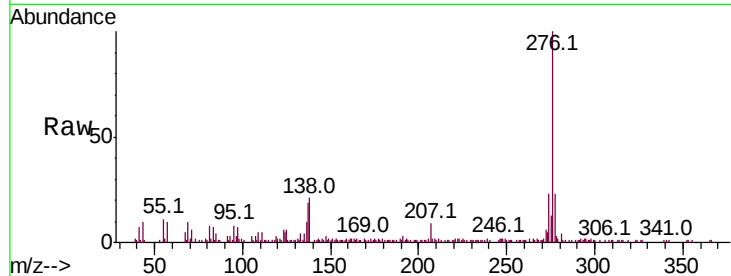
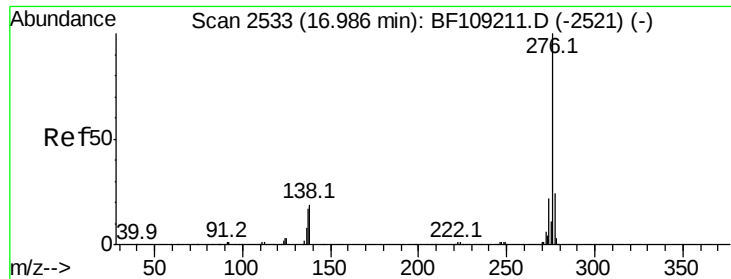
Sohil
9/26/2018 3:41:53 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.669 ng
RT: 16.61 min Scan# 2469
Delta R.T. -0.00 min
Lab File: BF109289.D
Acq: 25 Sep 2018 16:52

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.1	15.9	23.9
279	30.8	19.0	28.4





#91

Benzo(a,h,i)perylene

Concen: 8.573 ng

RT: 17.00 min Scan# 2536

Delta R.T. 0.01 min

Lab File: BF109289.D

Acq: 25 Sep 2018 16:52

Instrument :

BNA_F

ClientSampleId :

OR-01-092418-B

Tot Ion:276 Resp: 80785

Ion Ratio Lower Upper

276 100

277 23.1 17.9 26.9

138 21.3 21.8 32.8#

Manual Integrations
APPROVED

Sohil

9/26/2018 3:41:53 PM

