

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101513.D
 Acq On : 19 Dec 2017 8:42
 Operator : SJ/JU
 Sample : I6680-13DL 10X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-BDL

Manual Integrations
 APPROVED

Sohil
 12/19/2017 4:50:13 PM

Quant Time: Dec 19 10:29:09 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	129535	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	475115	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	170454	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	262054	20.00	ng	0.00
75) Chrysene-d12	13.99	240	276430	20.00	ng	0.00
86) Perylene-d12	15.46	264	268353	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	89833	10.33	ng	0.02
7) Phenol-d6	6.46	99	113433	10.48	ng	0.01
23) Nitrobenzene-d5	7.38	82	62027	7.27	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	15786	9.61	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	121183	11.03	ng	0.00
78) Terphenyl-d14	12.92	244	89683	7.82	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.11	128	144149	6.027	ng	97
37) 2-Methylnaphthalene	8.80	142	87657	5.625	ng	99
48) Acenaphthylene	9.71	152	111027	6.077	ng	97
51) Acenaphthene	9.88	154	63832	5.816	ng	100
54) Dibenzofuran	10.06	168	77935	5.587	ng	97
57) Fluorene	10.40	166	172234	14.596	ng	100
70) Phenanthrene	11.36	178	824813	56.598	ng	99
71) Anthracene	11.42	178	244454	16.422	ng	100
72) Carbazole	11.58	167	62295	4.470	ng	99
74) Fluoranthene	12.56	202	819845	53.596	ng	99
77) Pyrene	12.79	202	841267	40.551	ng	99
80) Benzo(a)anthracene	13.98	228	461005	25.256	ng	100
82) Chrysene	14.02	228	404330	23.461	ng	99
85) Indeno(1,2,3-cd)pyrene	16.94	276	152099	9.911	ng	# 91
87) Benzo(b)fluoranthene	15.04	252	410502m	25.097	ng	
88) Benzo(k)fluoranthene	15.06	252	149029m	9.371	ng	
89) Benzo(a)pyrene	15.40	252	325209	21.568	ng	98
90) Dibenzo(a,h)anthracene	16.94	278	39676m	3.065	ng	
91) Benzo(g,h,i)perylene	17.40	276	142345	11.104	ng	95

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

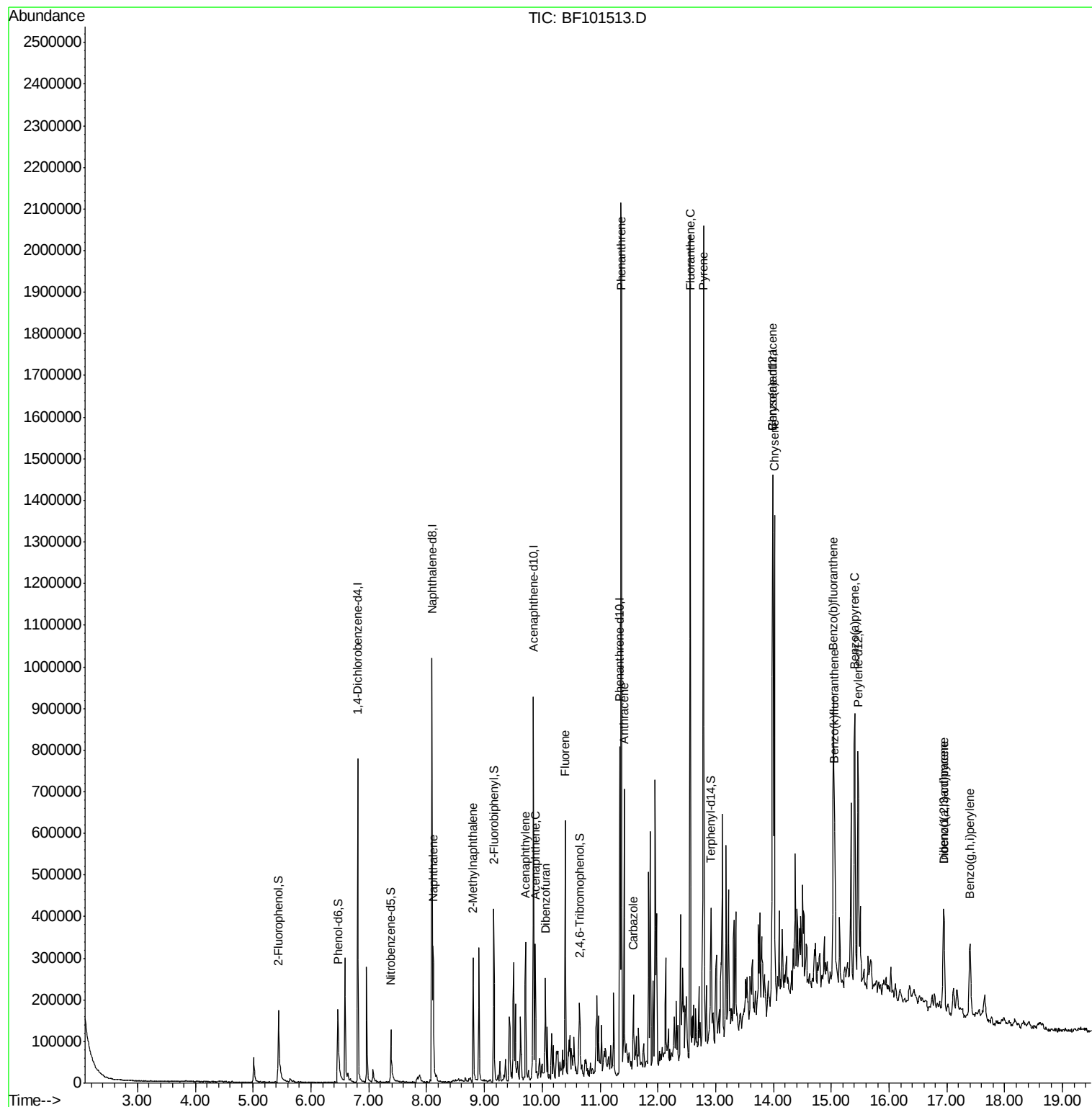
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
Data File : BF101513.D
Acq On : 19 Dec 2017 8:42
Operator : SJ/JU
Sample : I6680-13DL 10X
Misc :
ALS Vial : 40 Sample Multiplier: 1

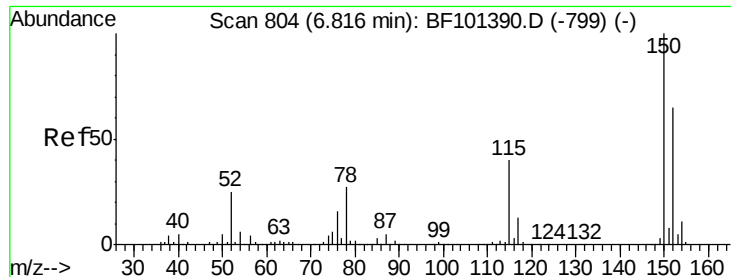
Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM

Quant Time: Dec 19 10:29:09 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 18 15:38:59 2017
Response via : Initial Calibration





#1

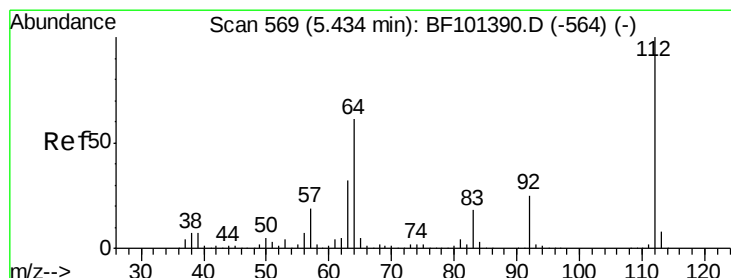
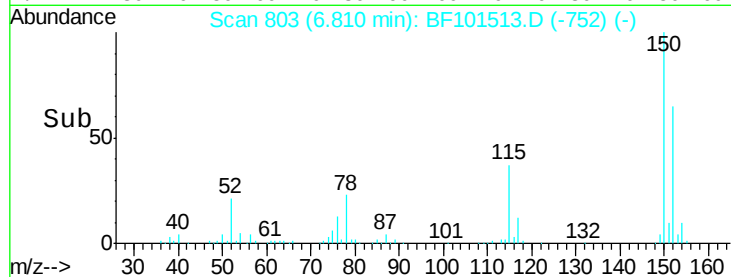
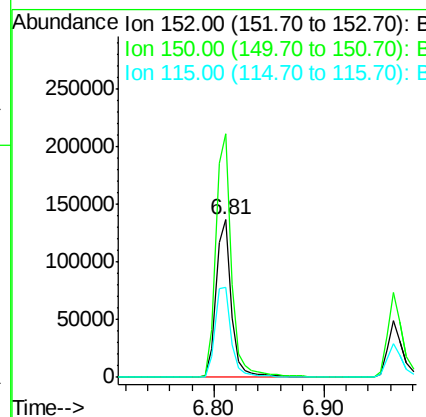
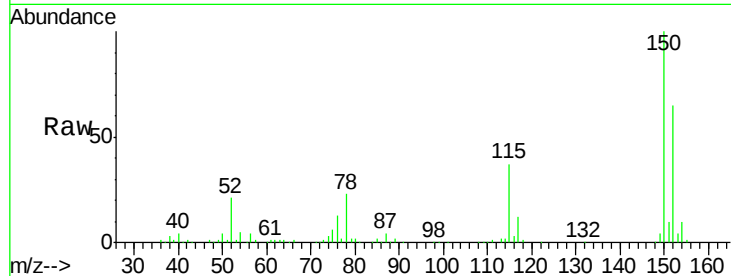
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.6	186.8
115	56.7	50.1	75.1

Manual Integrations
APPROVED

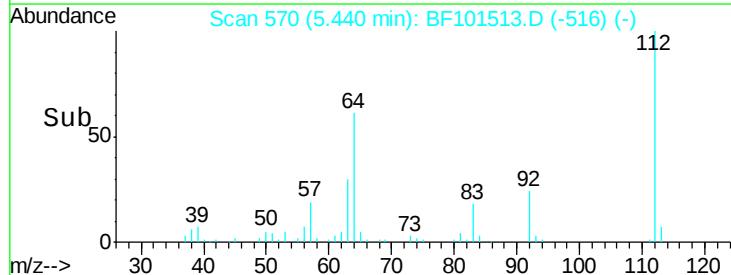
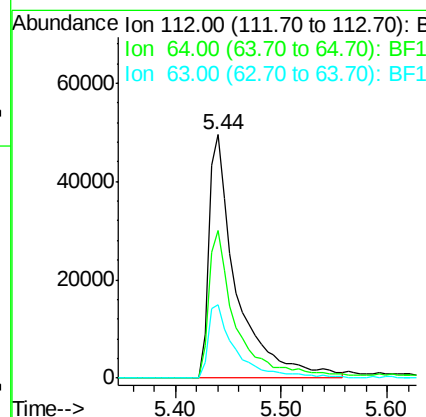
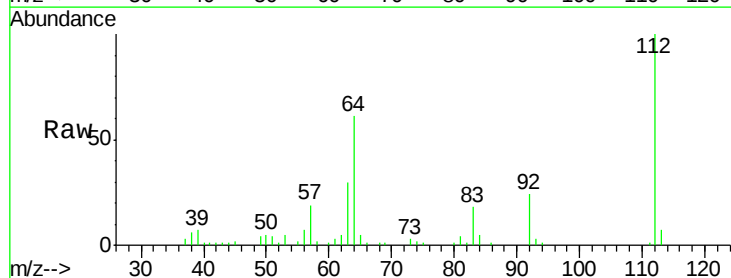
Sohil
12/19/2017 4:50:13 PM

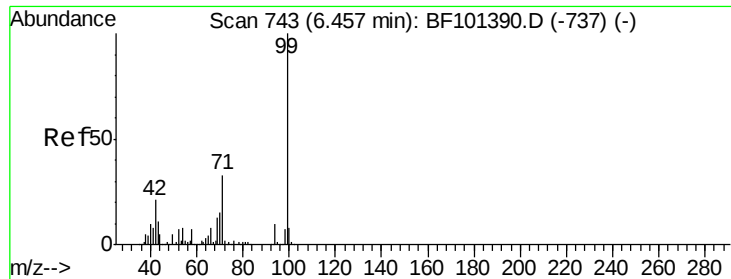


#5

2-Fluorophenol
Concen: 10.330 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.02 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	47.9	71.9
63	30.4	23.7	35.5





#7

Phenol-d6

Concen: 10.481 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Instrument :

BNA_F

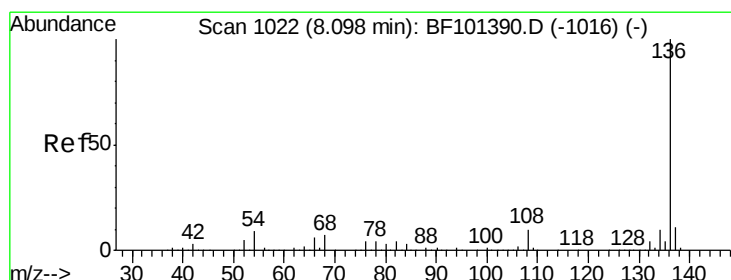
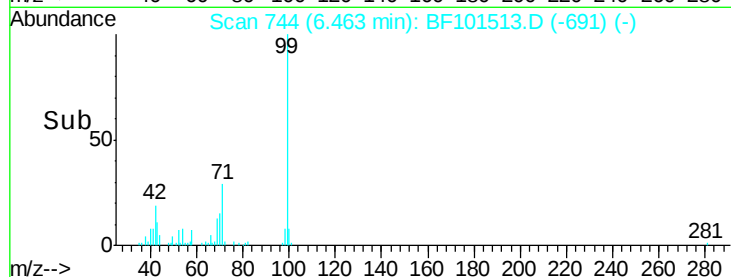
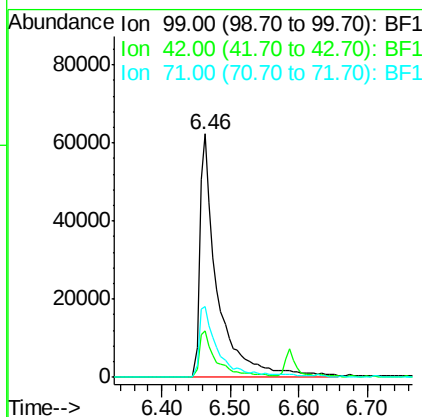
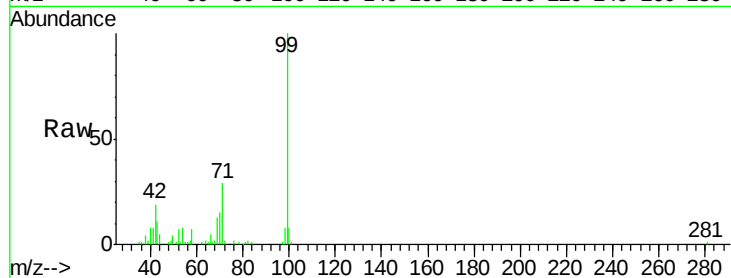
ClientSampleId :

CL-02-121417-BDL

Tgt Ion:	99	Resp:	113433
Ion Ratio	Lower	Upper	
99	100		
42	19.1	14.5	21.7
71	29.1	25.4	38.0

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM



#21

Naphthalene-d8

Concen: 20.000 ng

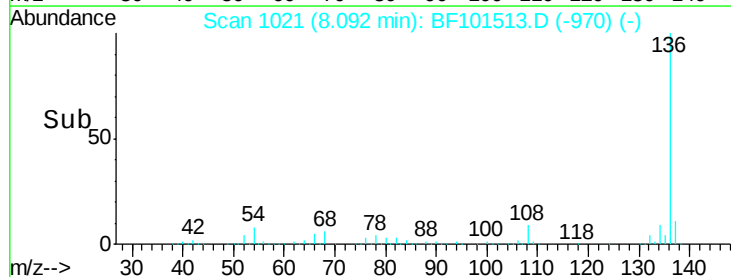
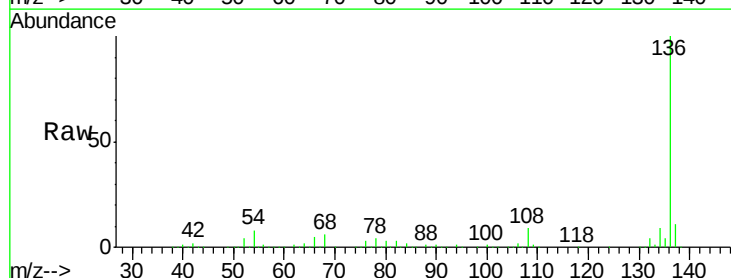
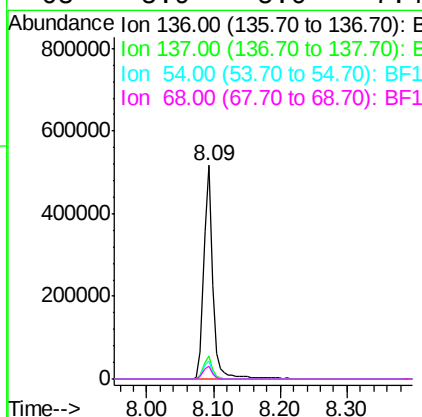
RT: 8.09 min Scan# 1021

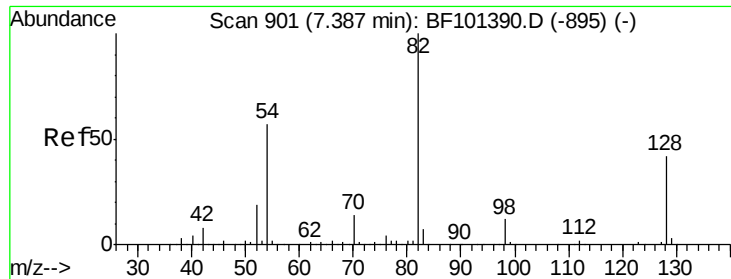
Delta R.T. 0.00 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Tgt Ion:	136	Resp:	475115
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	8.2	6.6	9.8
68	5.9	5.0	7.4





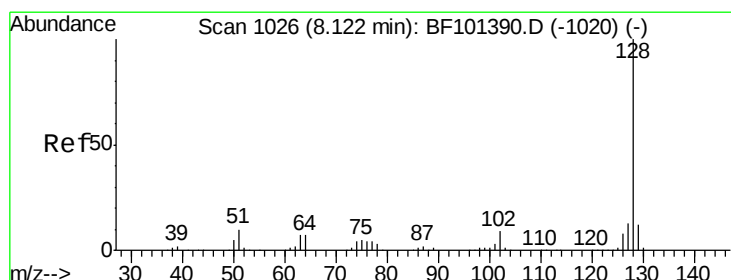
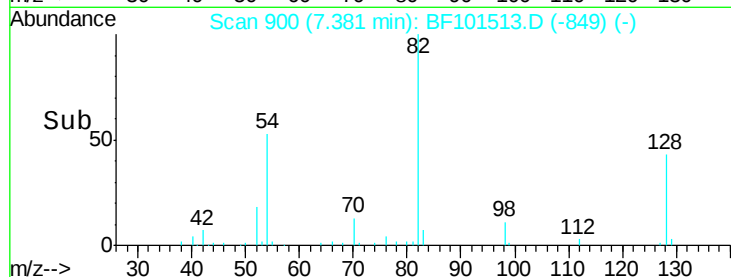
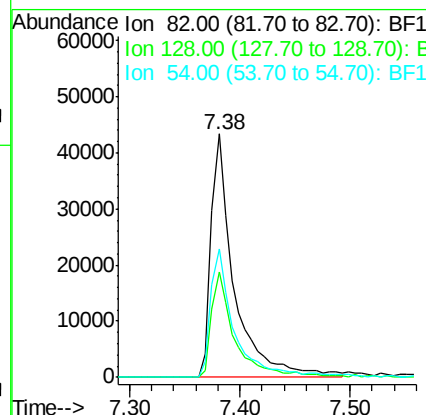
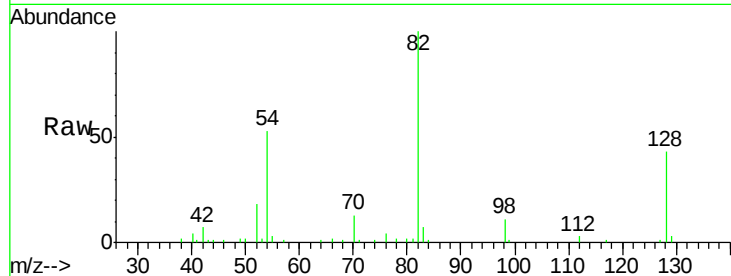
#23
Nitrobenzene-d5
Concen: 7.267 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.5	36.1	54.1
54	52.8	41.4	62.2

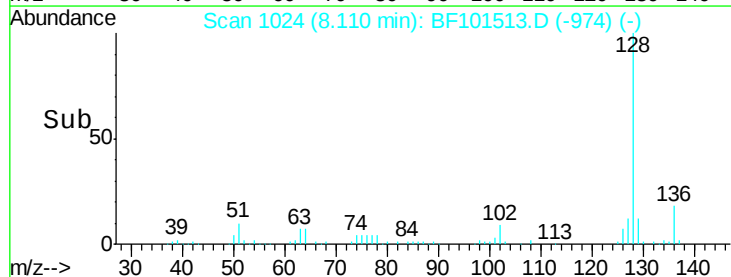
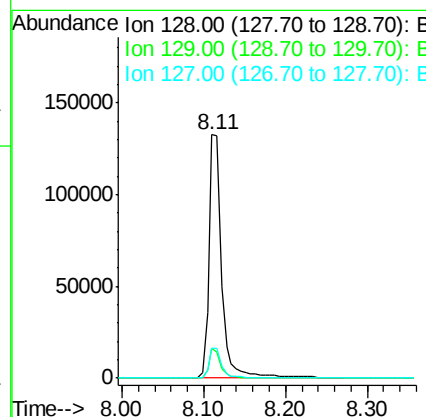
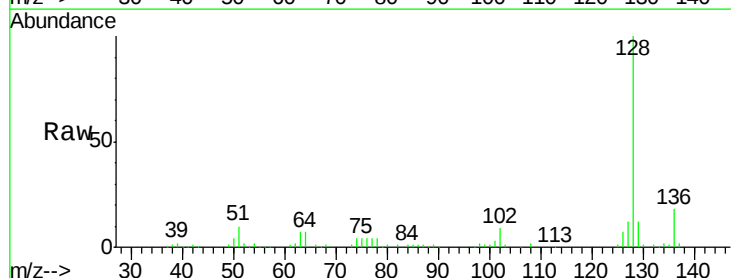
Manual Integrations
APPROVED

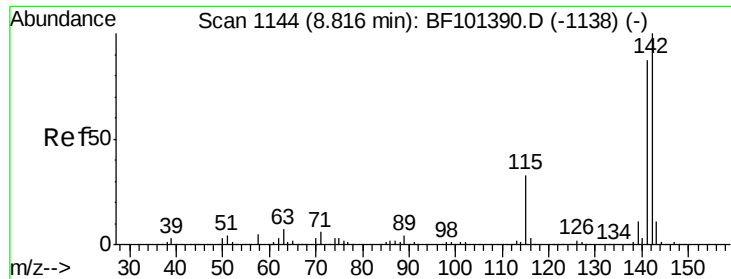
Sohil
12/19/2017 4:50:13 PM



#31
Naphthalene
Concen: 6.027 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.4	8.8	13.2
127	12.5	10.9	16.3





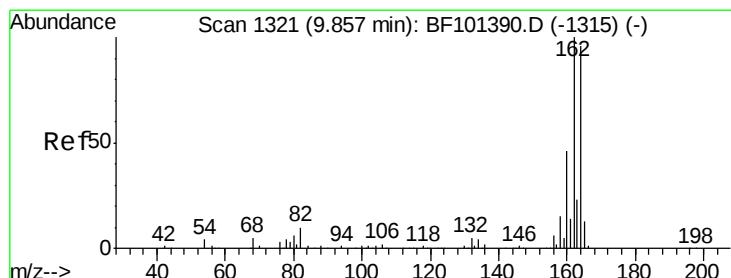
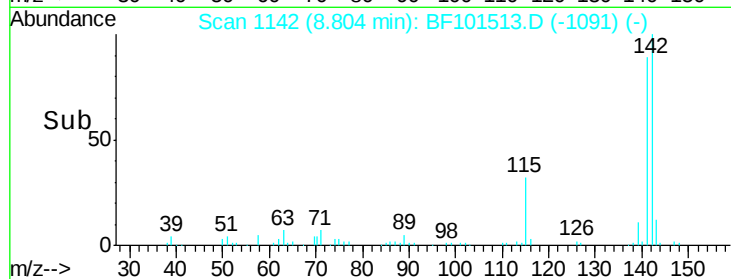
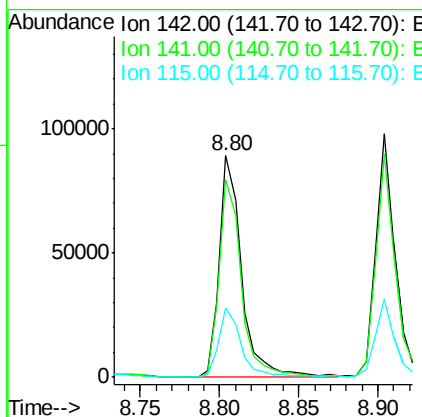
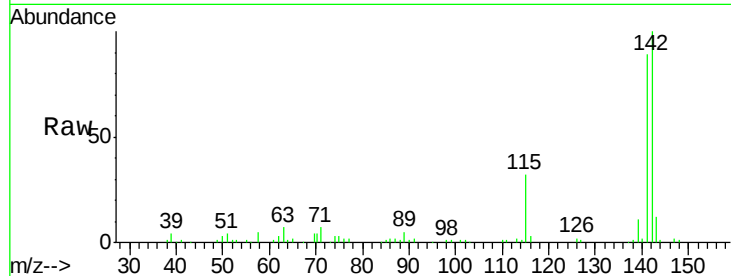
#37
2-Methylnaphthalene
Concen: 5.625 ng
RT: 8.80 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	87657		
141	89.4	70.8	106.2	
115	31.6	26.1	39.1	

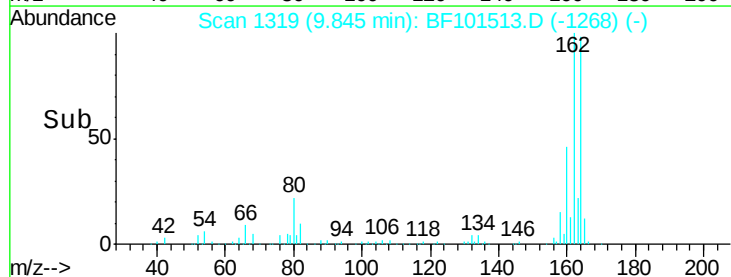
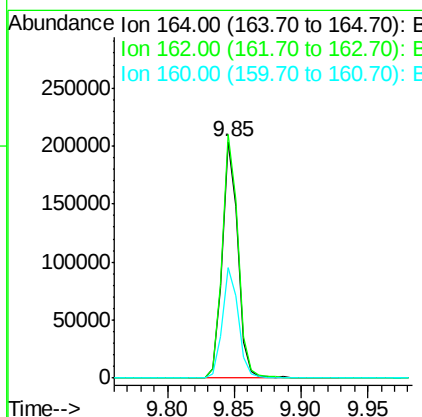
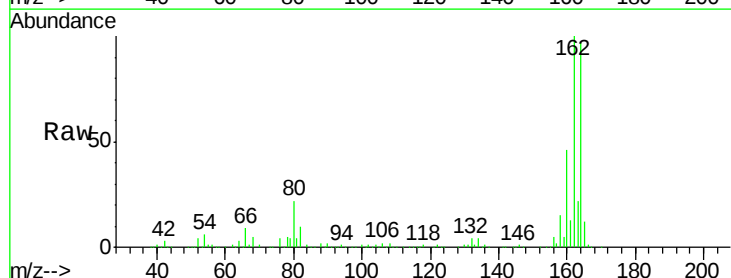
Manual Integrations
APPROVED

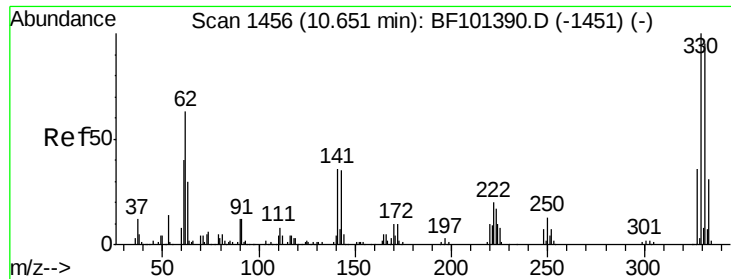
Sohil
12/19/2017 4:50:13 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	170454		
162	103.0	86.1	129.1	
160	46.9	38.3	57.5	





#41

2,4,6-Tribromophenol

Concen: 9.611 ng

RT: 10.65 min Scan# 1455

Delta R.T. 0.00 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Instrument :

BNA_F

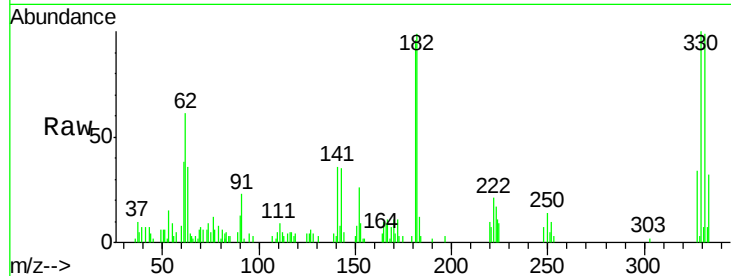
ClientSampleId :

CL-02-121417-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	15786		
332	95.3	77.0	115.6	
141	49.3	29.9	44.9#	

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM

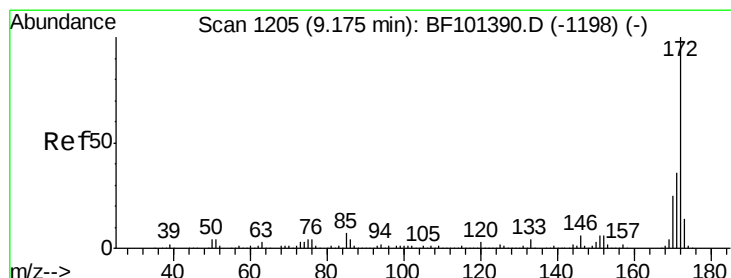
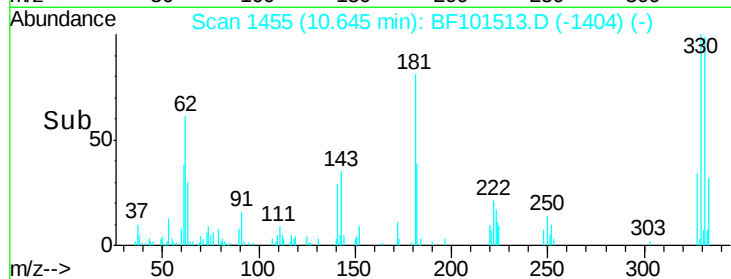
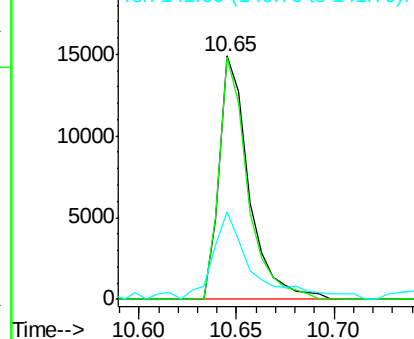


Abundance

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: 11.028 ng

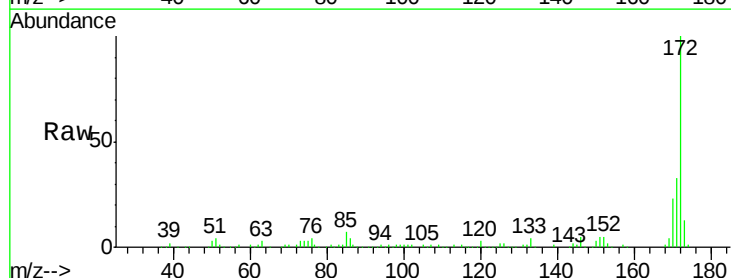
RT: 9.16 min Scan# 1203

Delta R.T. -0.01 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	121183		
171	32.8	29.7	44.5	
170	22.8	19.6	29.4	

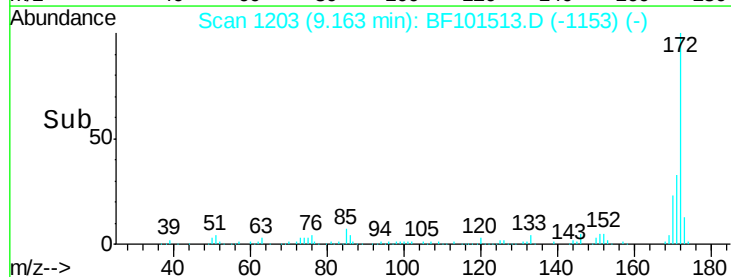
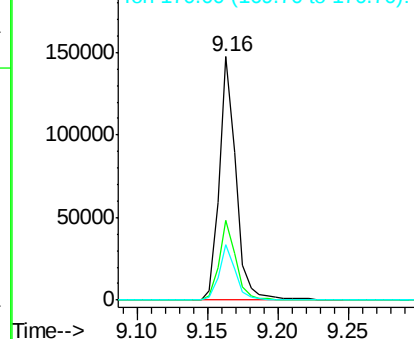


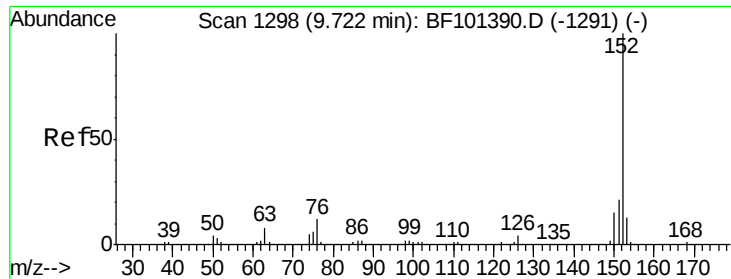
Abundance

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





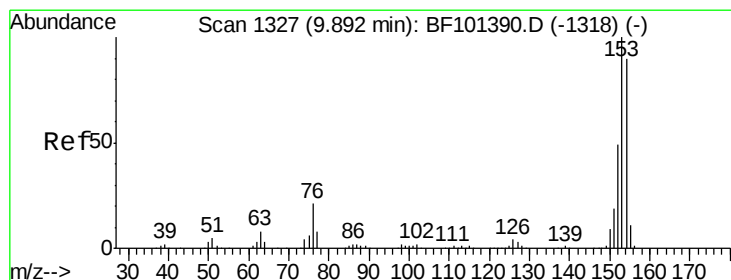
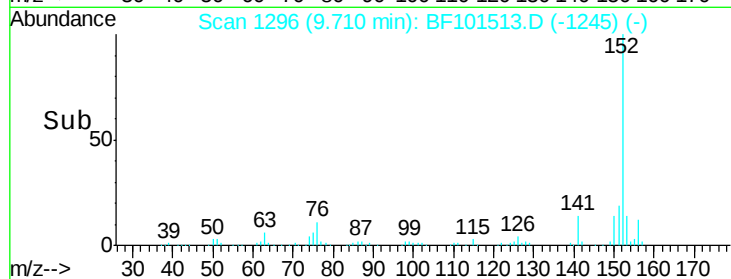
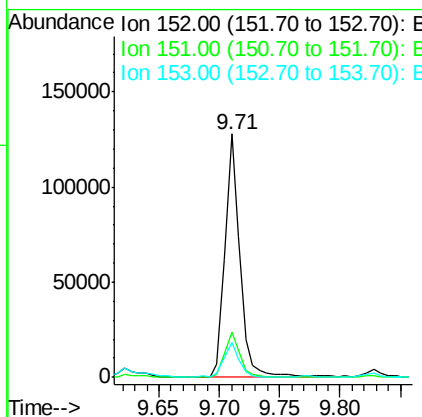
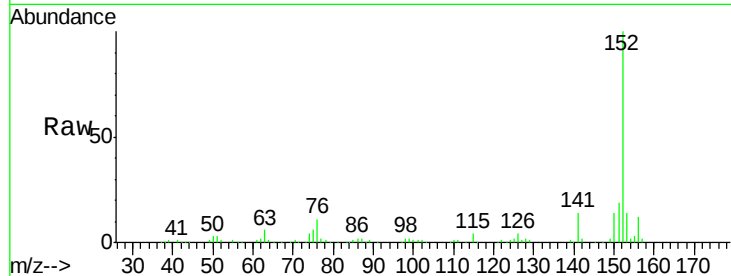
#48
Acenaphthylene
Concen: 6.077 ng
RT: 9.71 min Scan# 1296
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	111027		
151	18.6	16.3	24.5	
153	14.4	10.7	16.1	

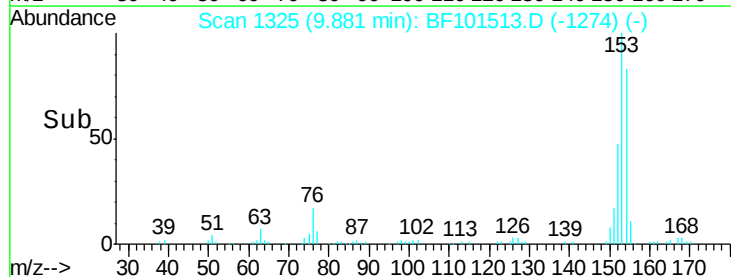
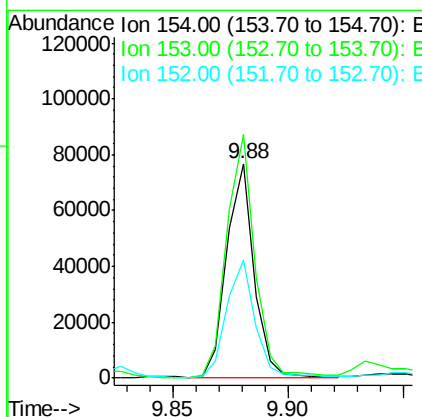
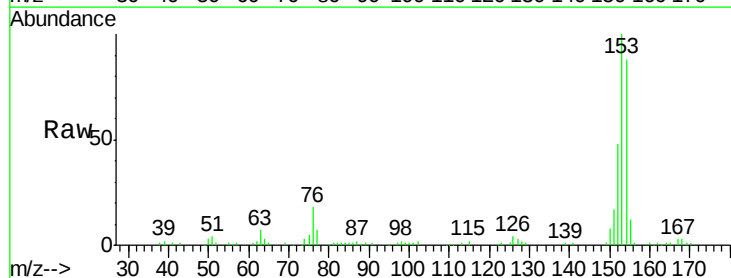
Manual Integrations
APPROVED

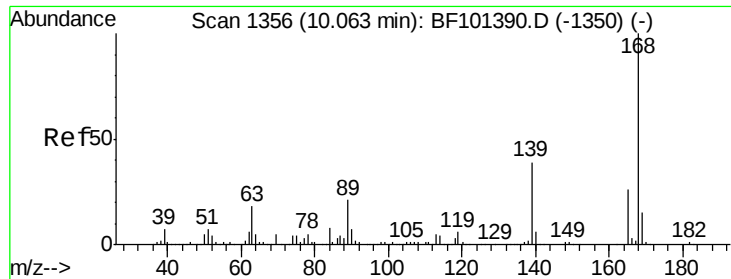
Sohil
12/19/2017 4:50:13 PM



#51
Acenaphthene
Concen: 5.816 ng
RT: 9.88 min Scan# 1325
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	63832		
153	113.6	91.2	136.8	
152	54.8	43.8	65.8	





#54

Dibenzenofuran

Concen: 5.587 ng

RT: 10.06 min Scan# 1355

Delta R.T. 0.01 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Instrument :

BNA_F

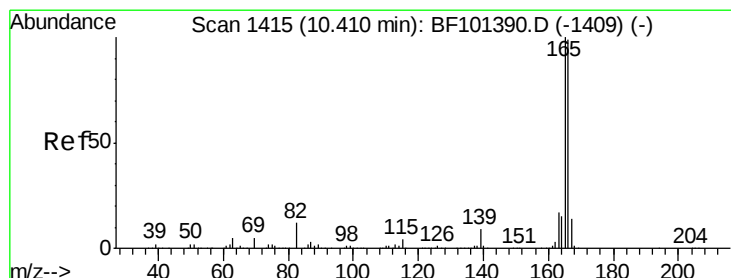
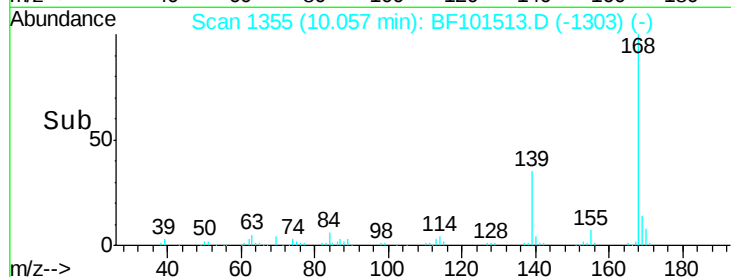
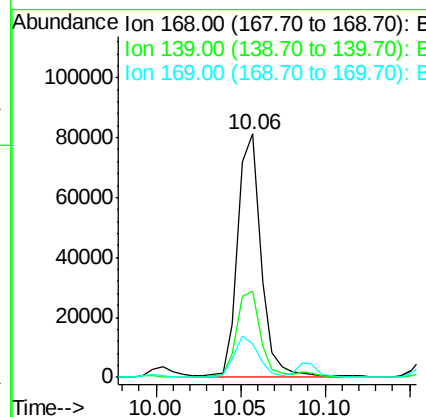
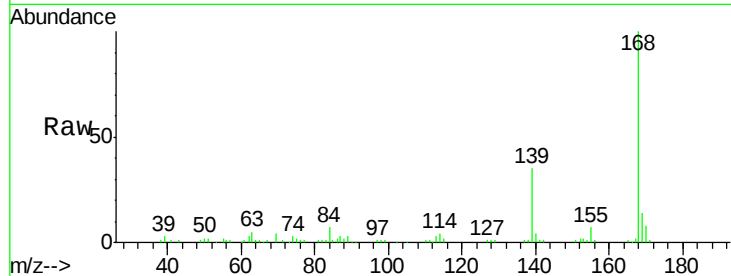
ClientSampleId :

CL-02-121417-BDL

Tgt Ion:	168	Resp:	77935
Ion Ratio	Lower	Upper	
168	100		
139	35.2	30.1	45.1
169	14.0	10.9	16.3

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM



#57

Fluorene

Concen: 14.596 ng

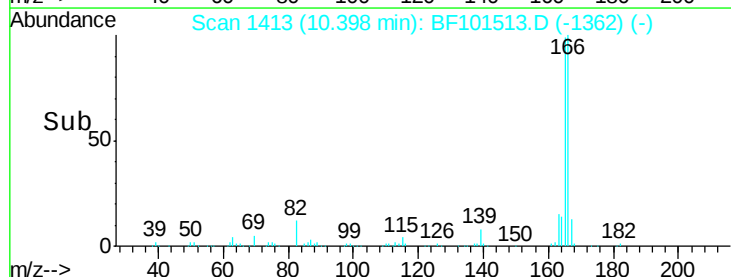
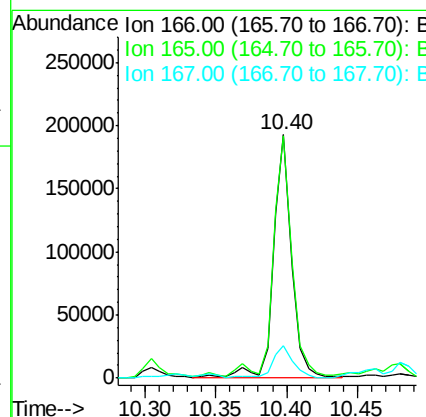
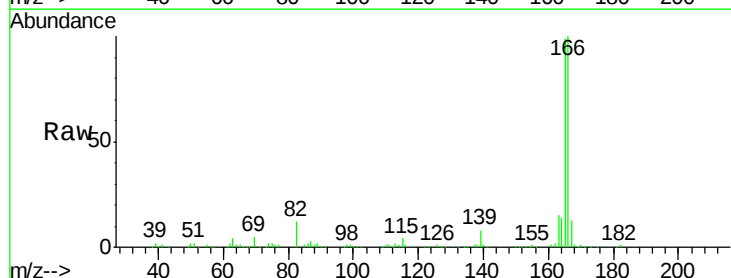
RT: 10.40 min Scan# 1413

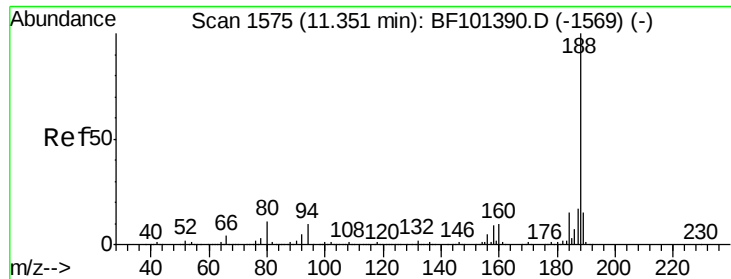
Delta R.T. 0.00 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Tgt Ion:	166	Resp:	172234
Ion Ratio	Lower	Upper	
166	100		
165	99.3	79.8	119.8
167	13.4	10.6	16.0





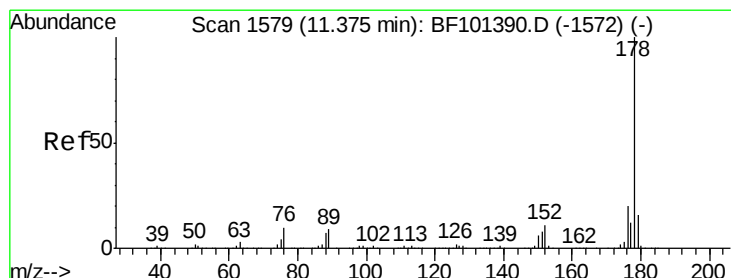
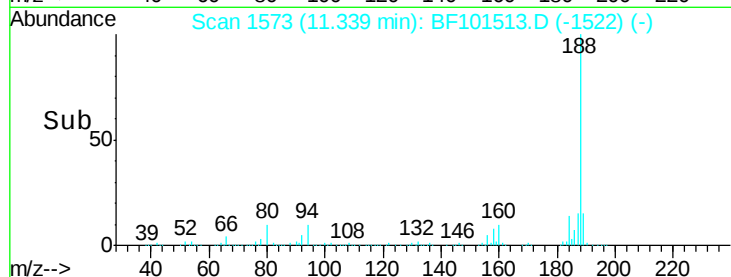
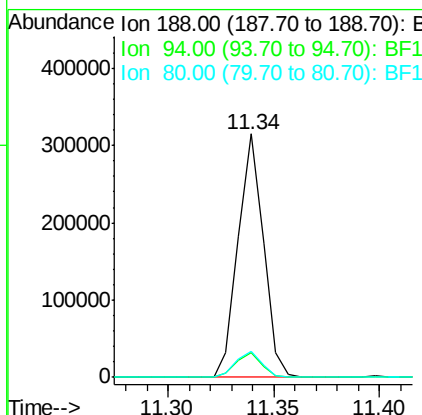
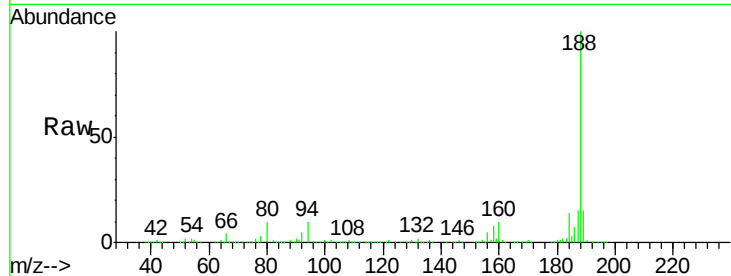
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	9.9	8.5	12.7
80	10.5	9.2	13.8

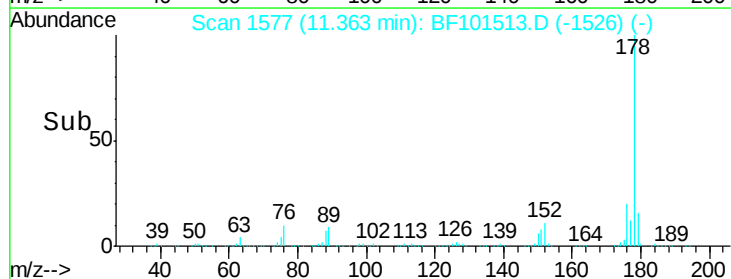
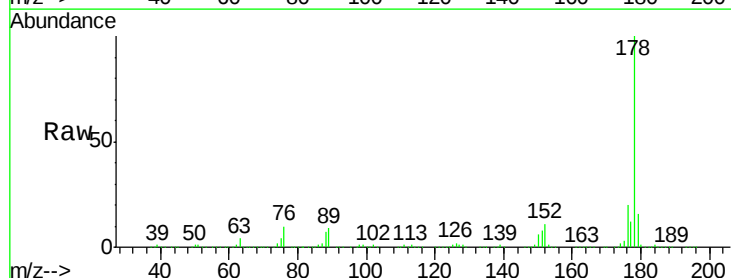
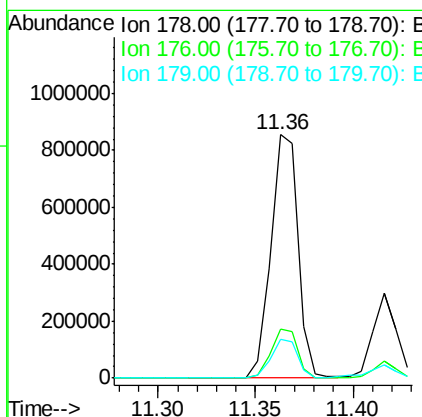
Manual Integrations
APPROVED

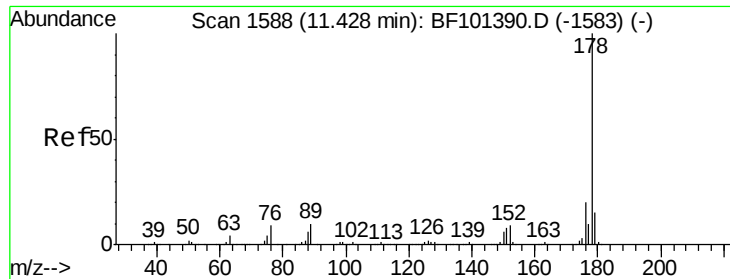
Sohil
12/19/2017 4:50:13 PM



#70
Phenanthrene
Concen: 56.598 ng
RT: 11.36 min Scan# 1577
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.0	15.8	23.8
179	15.8	13.0	19.6





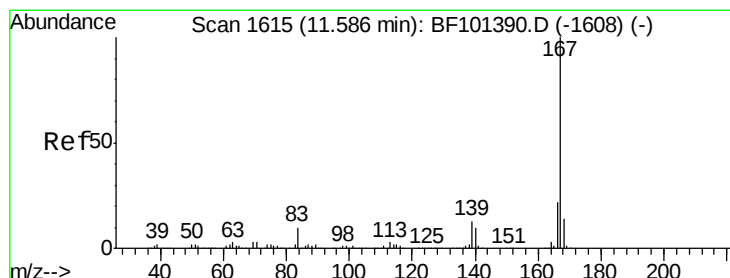
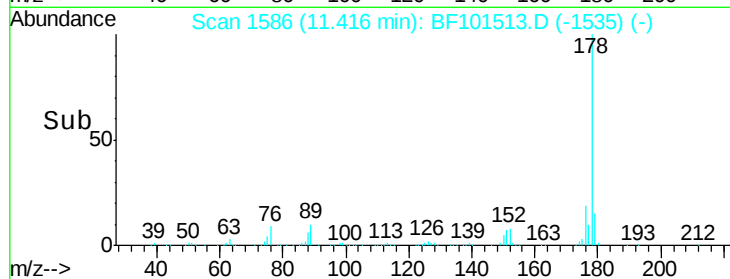
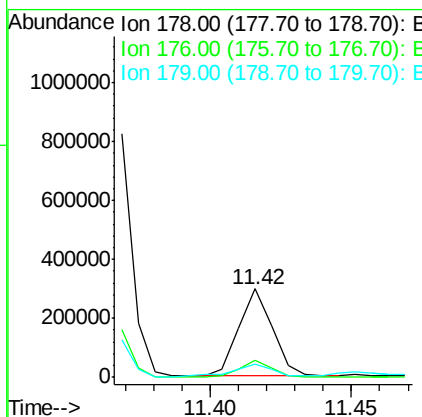
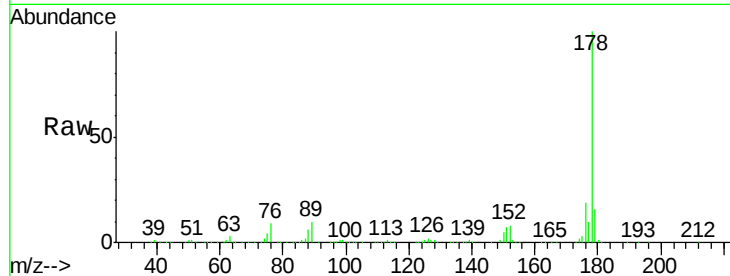
#71
 Anthracene
 Concen: 16.422 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: BF101513.D
 Acq: 19 Dec 2017 8:42

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-BDL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.6	12.6	19.0

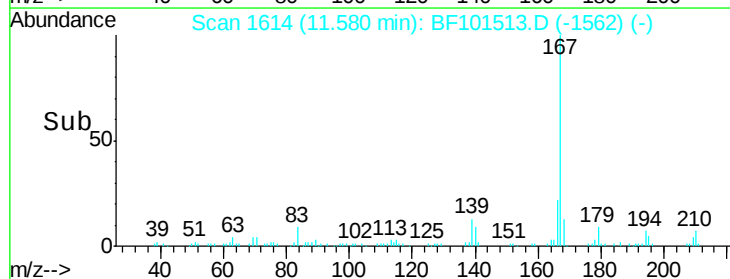
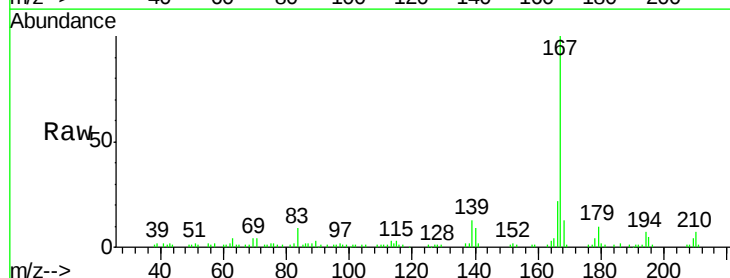
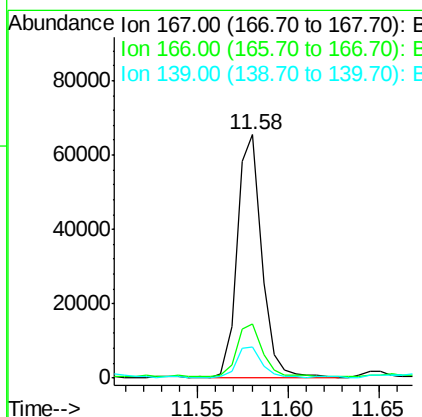
Manual Integrations
 APPROVED

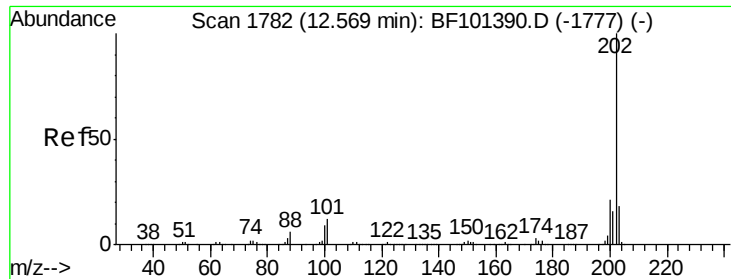
Sohil
 12/19/2017 4:50:13 PM



#72
 Carbazole
 Concen: 4.470 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.01 min
 Lab File: BF101513.D
 Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.6	26.4
139	12.7	10.9	16.3





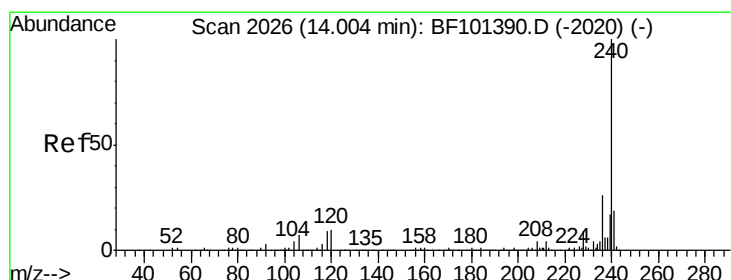
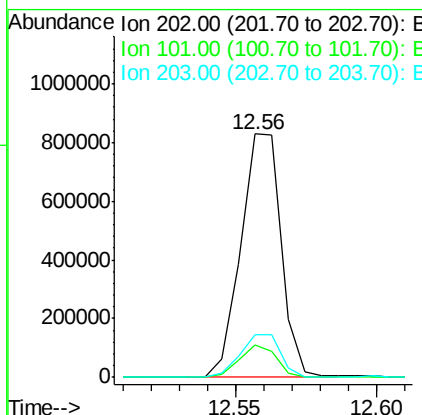
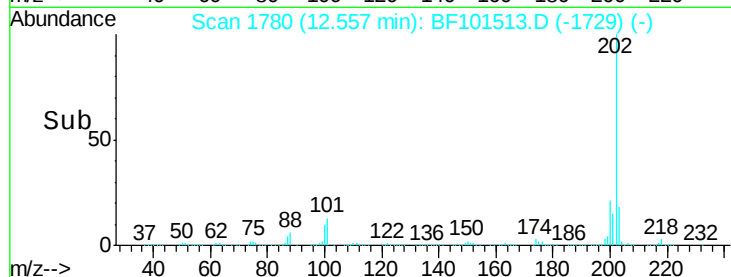
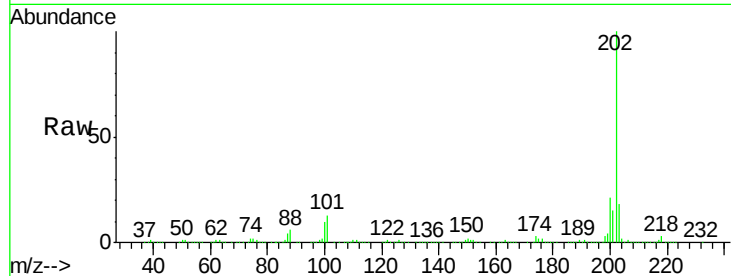
#74
Fluoranthene
Concen: 53.596 ng
RT: 12.56 min Scan# 1780
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	13.4	0.0	34.1
203	17.7	0.0	38.1

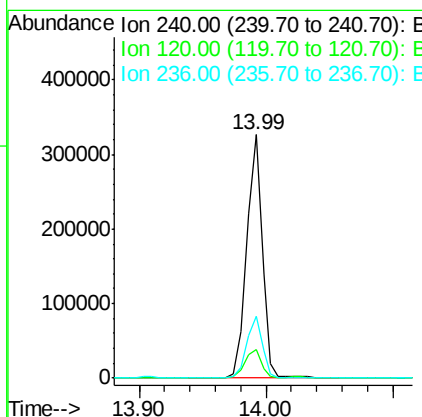
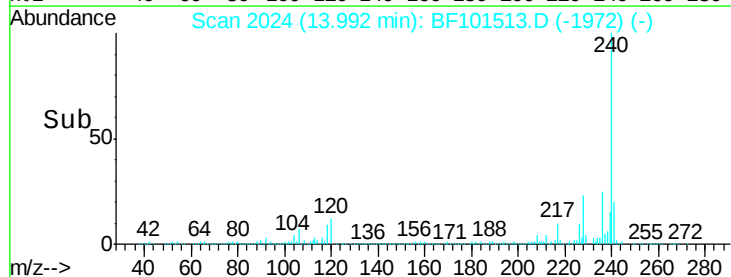
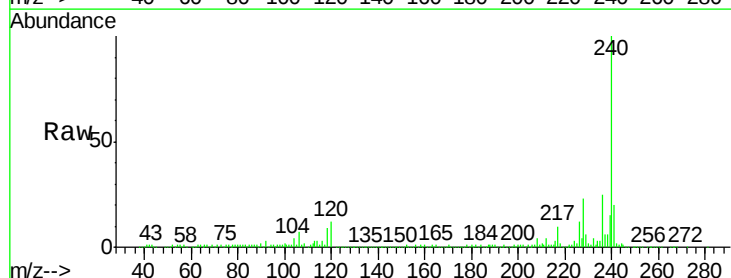
Manual Integrations
APPROVED

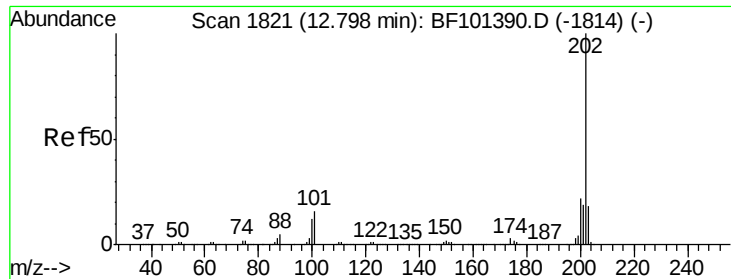
Sohil
12/19/2017 4:50:13 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	11.5	9.5	14.3
236	25.3	20.7	31.1





#77

Pyrene

Concen: 40.551 ng

RT: 12.79 min Scan# 1820

Delta R.T. 0.01 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Instrument :

BNA_F

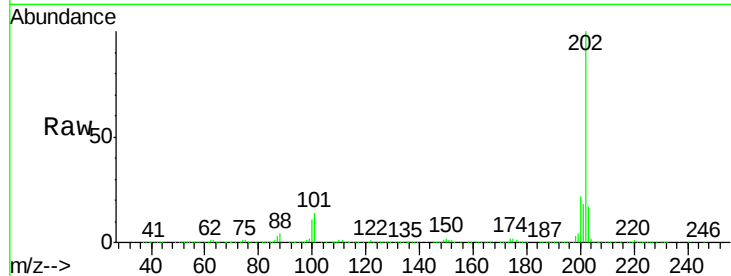
ClientSampleId :

CL-02-121417-BDL

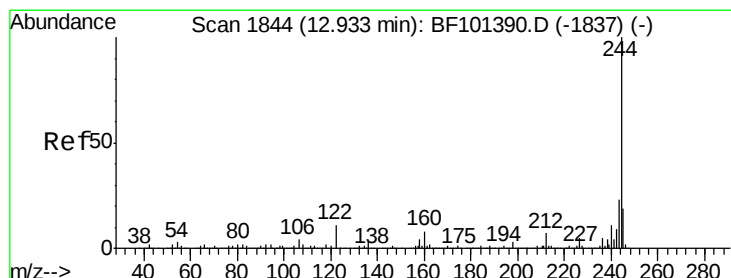
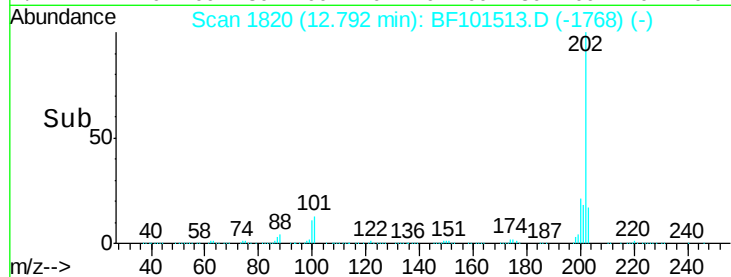
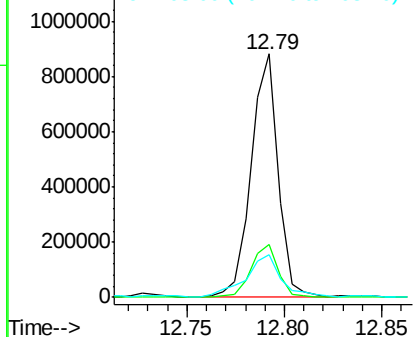
Tgt Ion:	202	Resp:	841267
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	17.3	14.3	21.5

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 7.821 ng

RT: 12.92 min Scan# 1842

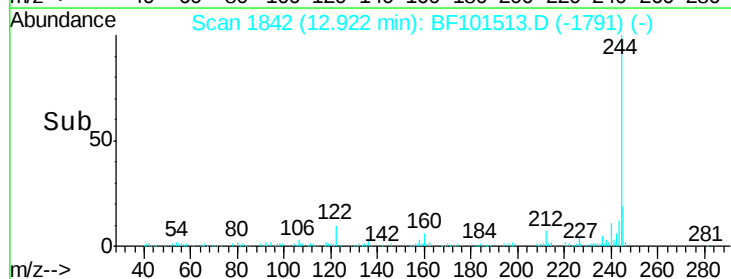
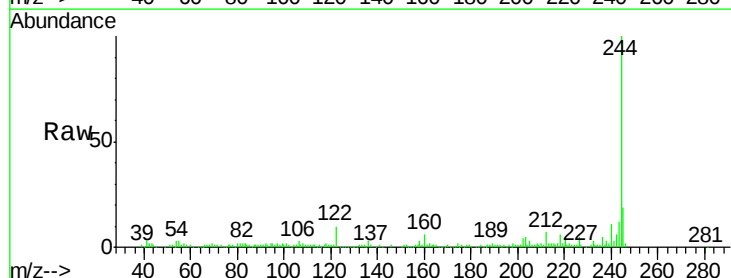
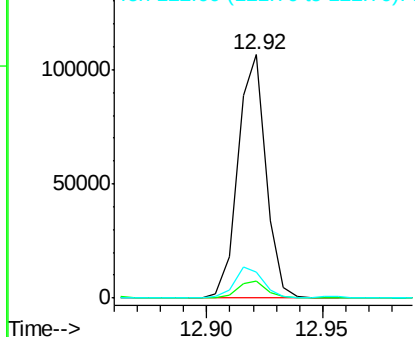
Delta R.T. 0.00 min

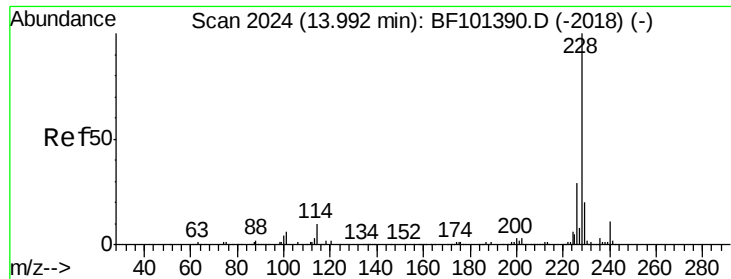
Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Tgt Ion:	244	Resp:	89683
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	10.5	11.0	16.4#

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





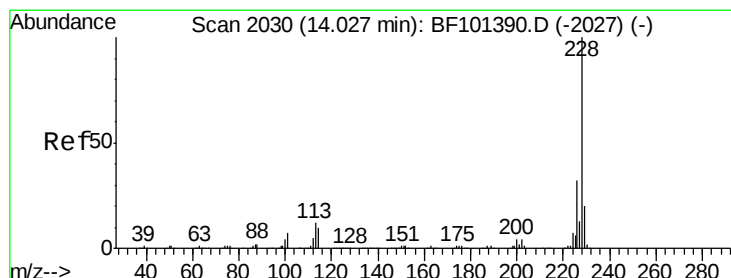
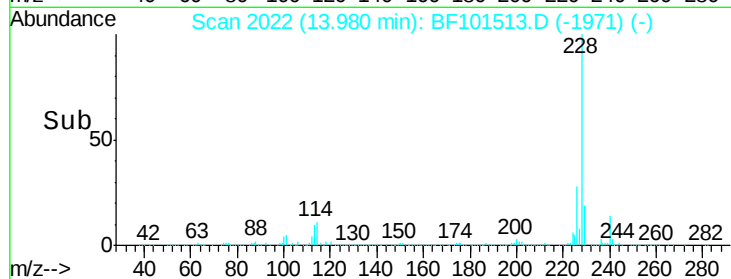
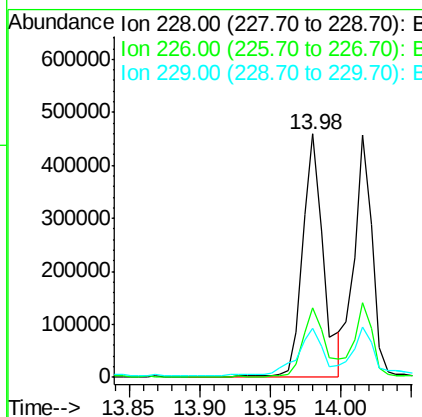
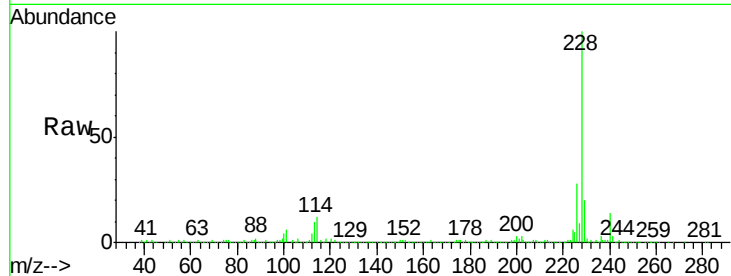
#80
Benzo(a)anthracene
Concen: 25.256 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	19.9	15.8	23.6

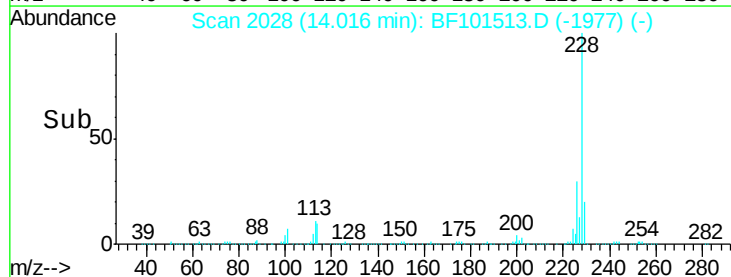
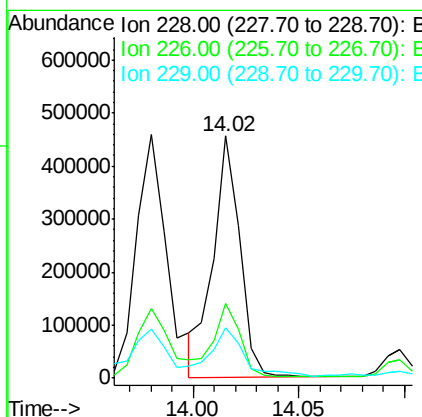
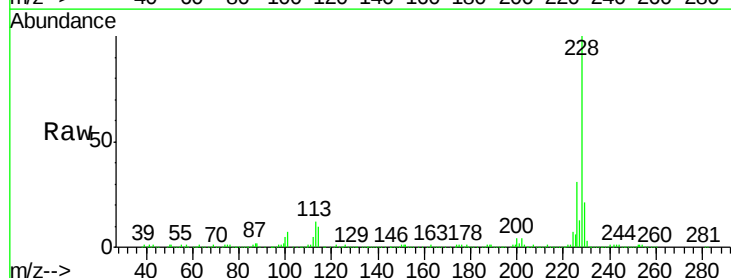
Manual Integrations
APPROVED

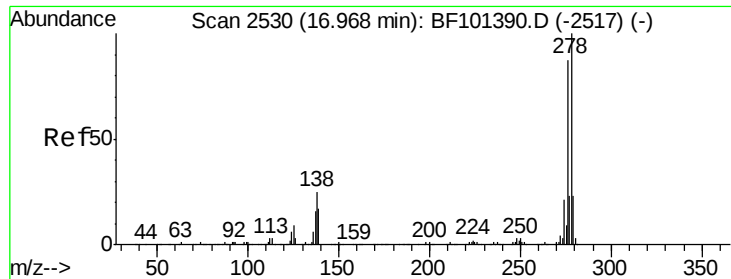
Sohil
12/19/2017 4:50:13 PM



#82
Chrysene
Concen: 23.461 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	21.0	16.2	24.4





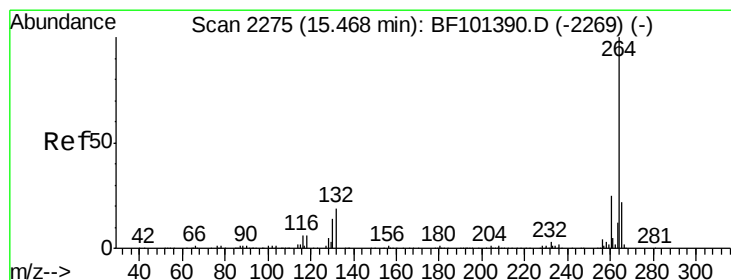
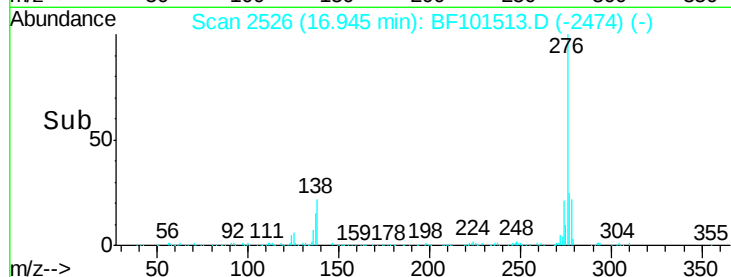
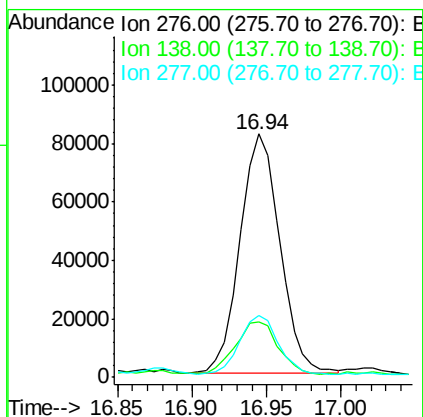
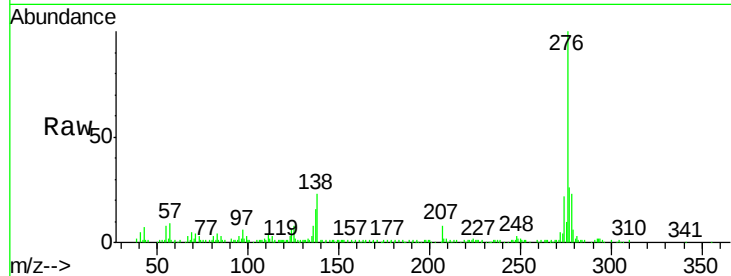
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.911 ng
 RT: 16.94 min Scan# 2526
 Delta R.T. 0.01 min
 Lab File: BF101513.D
 Acq: 19 Dec 2017 8:42

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	152099		
138	23.6	25.0	37.6#	
277	24.0	20.1	30.1	

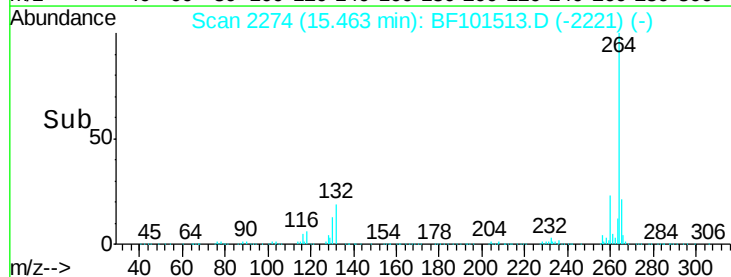
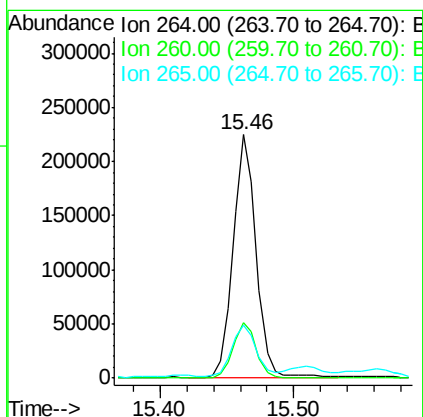
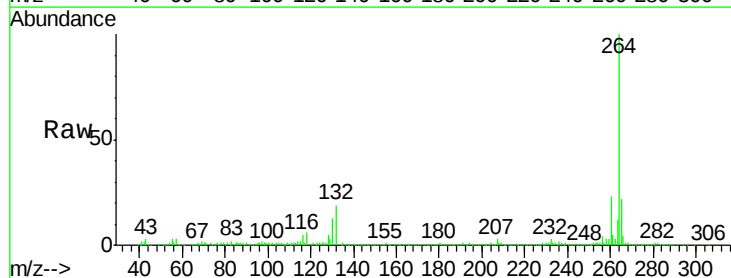
Manual Integrations
 APPROVED

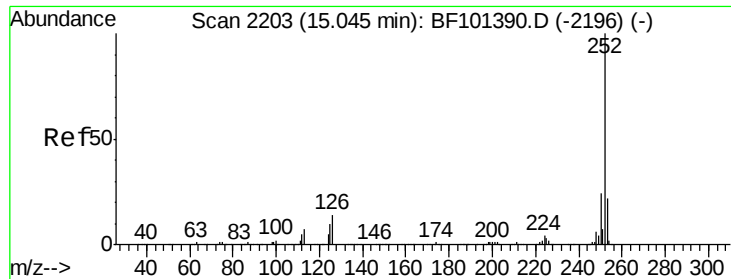
Sohil
 12/19/2017 4:50:13 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. 0.01 min
 Lab File: BF101513.D
 Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	268353		
260	22.9	19.2	28.8	
265	21.8	17.5	26.3	





#87

Benzo(b)fluoranthene

Concen: 25.097 ng m

RT: 15.04 min Scan# 2202

Delta R.T. 0.01 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Instrument :

BNA_F

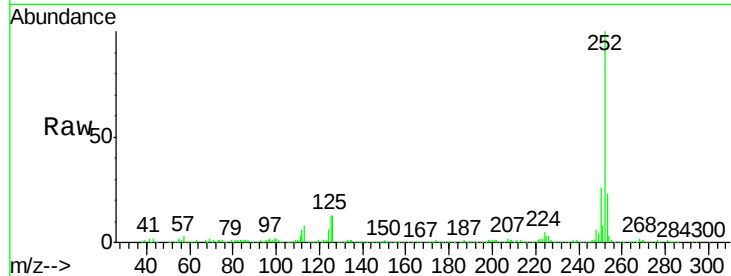
ClientSampleId :

CL-02-121417-BDL

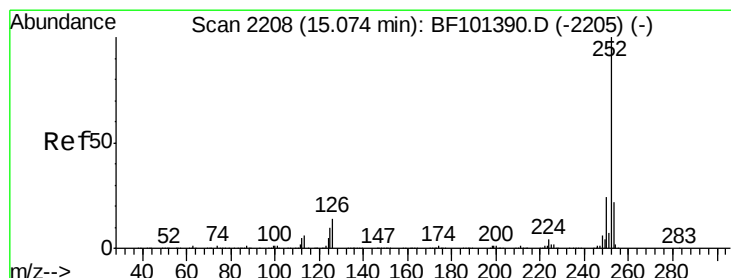
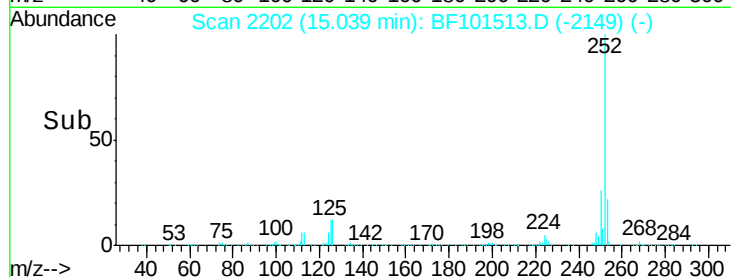
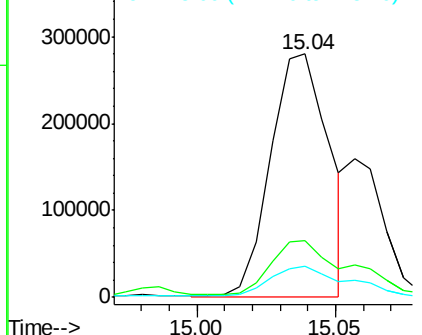
Tgt Ion:	252	Resp:	410502
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.0	25.6
125	12.7	9.0	13.6

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM



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



#88

Benzo(k)fluoranthene

Concen: 9.371 ng m

RT: 15.06 min Scan# 2205

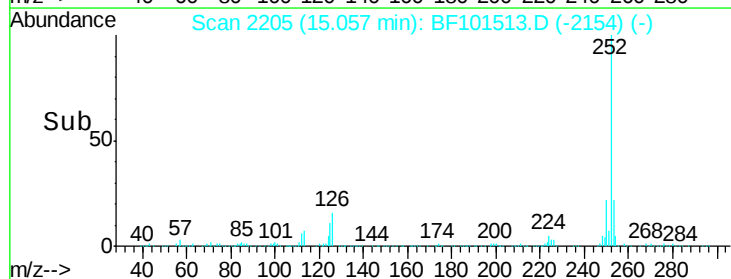
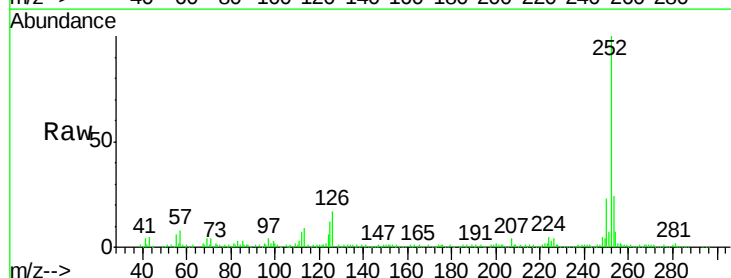
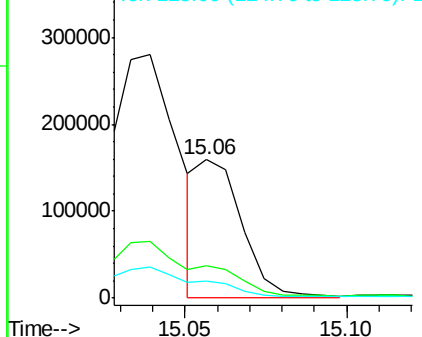
Delta R.T. 0.00 min

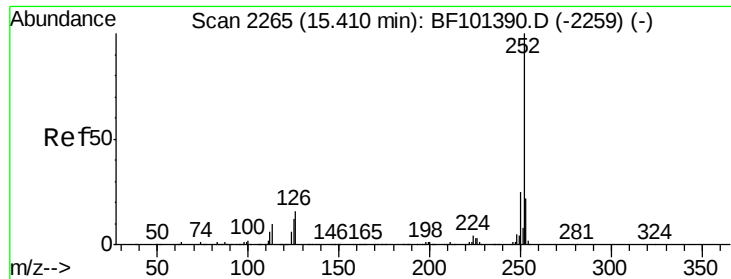
Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Tgt Ion:	252	Resp:	149029
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.9	26.9
125	11.9	10.2	15.2

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





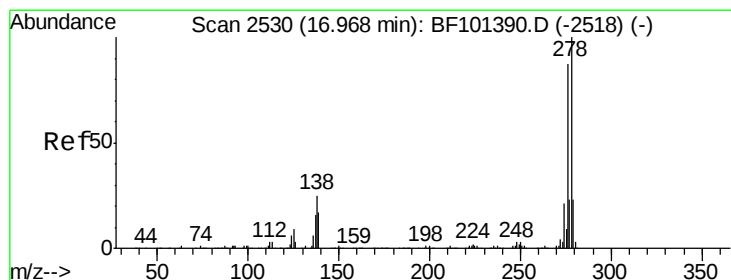
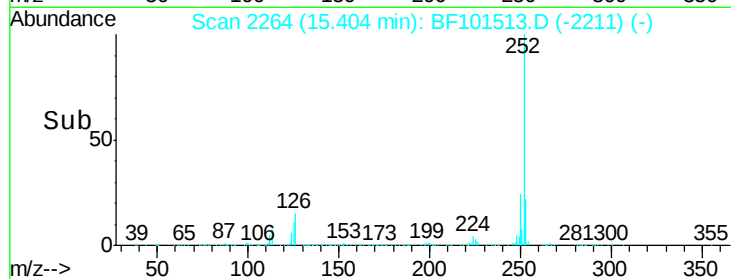
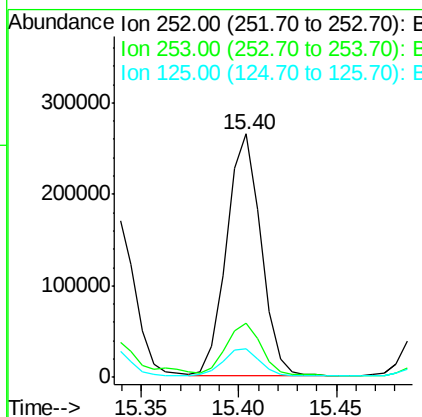
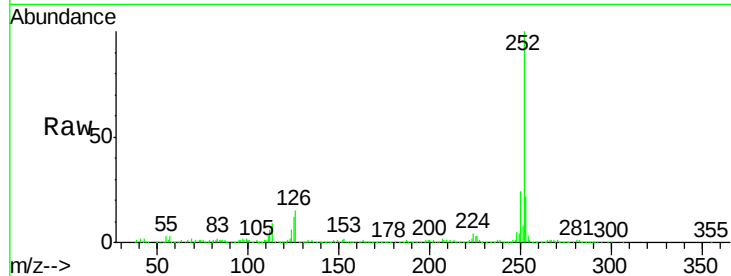
#89
Benzo(a)pyrene
Concen: 21.568 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.01 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-BDL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.1	25.7
125	11.6	9.8	14.6

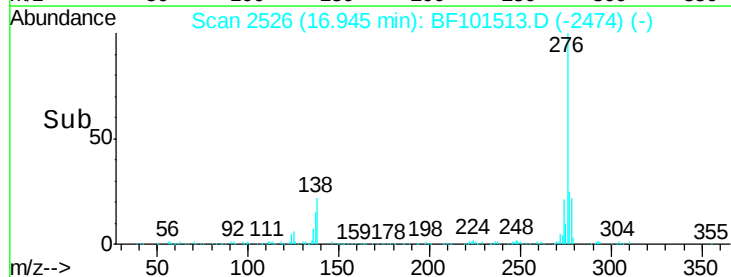
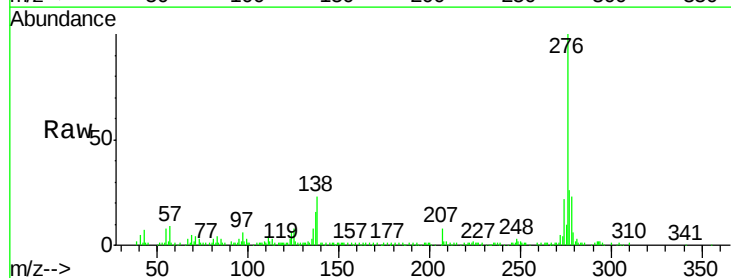
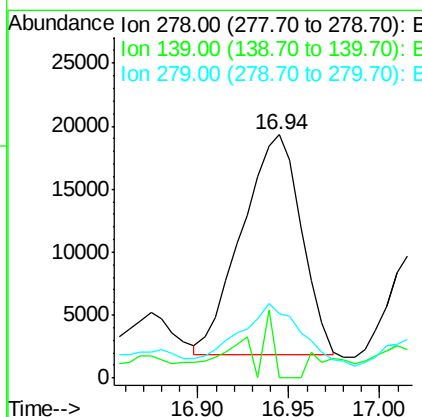
Manual Integrations
APPROVED

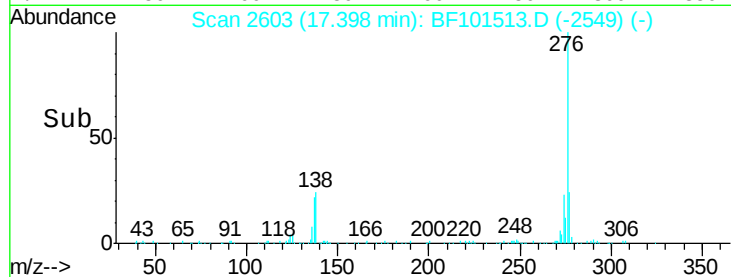
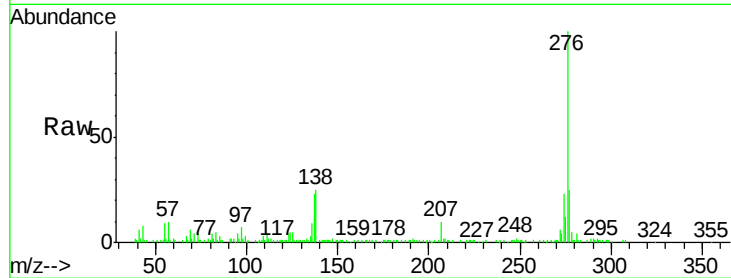
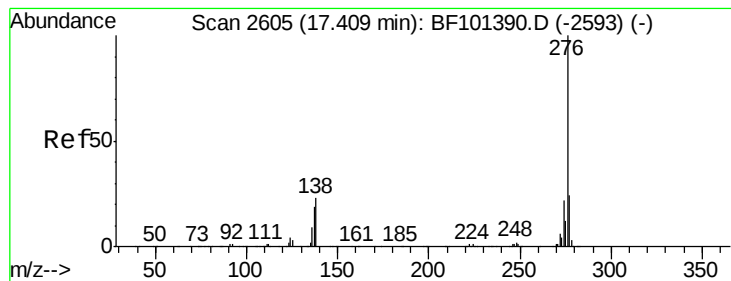
Sohil
12/19/2017 4:50:13 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.065 ng m
RT: 16.94 min Scan# 2526
Delta R.T. 0.01 min
Lab File: BF101513.D
Acq: 19 Dec 2017 8:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	26.5	19.0	28.4





#91

Benzo(g,h,i)perylene

Concen: 11.104 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.02 min

Lab File: BF101513.D

Acq: 19 Dec 2017 8:42

Instrument :

BNA_F

ClientSampleId :

CL-02-121417-BDL

Tgt Ion:	276	Resp:	142345
Ion Ratio		Lower	Upper
276	100		
277	24.9	17.9	26.9
138	25.0	21.8	32.8

Manual Integrations
APPROVED

Sohil
12/19/2017 4:50:13 PM

