

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101476.D
 Acq On : 18 Dec 2017 13:15
 Operator : SJ/JU
 Sample : I6678-01DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-01-121317DL

Manual Integrations
 APPROVED

Sohil
 12/19/2017 4:49:26 PM

Quant Time: Dec 18 15:52:47 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	6.80	152	162719	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	641047	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	284728	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	531552	20.00	ng	0.00
75) Chrysene-d12	13.99	240	354920	20.00	ng	0.00
86) Perylene-d12	15.46	264	328789	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	114945	10.52	ng	0.00
7) Phenol-d6	6.45	99	158836	11.68	ng	0.00
23) Nitrobenzene-d5	7.37	82	91873	7.98	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	29112	10.61	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	173632	9.46	ng	0.00
78) Terphenyl-d14	12.92	244	173879	11.81	ng	0.00
Target Compounds						
31) Naphthalene	8.11	128	277673	8.604	ng	Qvalue 97
37) 2-Methylnaphthalene	8.80	142	475903	22.634	ng	99
51) Acenaphthene	9.88	154	195610	10.669	ng	93
54) Dibenzofuran	10.06	168	189297	8.124	ng	# 85
57) Fluorene	10.40	166	326812	16.580	ng	# 98
70) Phenanthrene	11.37	178	1499469	50.726	ng	100
71) Anthracene	11.42	178	551372	18.260	ng	98
72) Carbazole	11.57	167	136253	4.820	ng	# 91
74) Fluoranthene	12.56	202	1291601	41.627	ng	97
77) Pyrene	12.79	202	1139443	42.777	ng	99
80) Benzo(a)anthracene	13.97	228	483698	20.639	ng	99
82) Chrysene	14.01	228	372814	16.848	ng	97
85) Indeno(1,2,3-cd)pyrene	16.93	276	183204	9.297	ng	# 90
87) Benzo(b)fluoranthene	15.03	252	377555m	18.840	ng	
88) Benzo(k)fluoranthene	15.05	252	128908m	6.616	ng	
89) Benzo(a)pyrene	15.39	252	292832	15.851	ng	97
90) Dibenzo(a,h)anthracene	16.93	278	44115m	2.781	ng	
91) Benzo(g,h,i)perylene	17.38	276	167624	10.672	ng	94

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

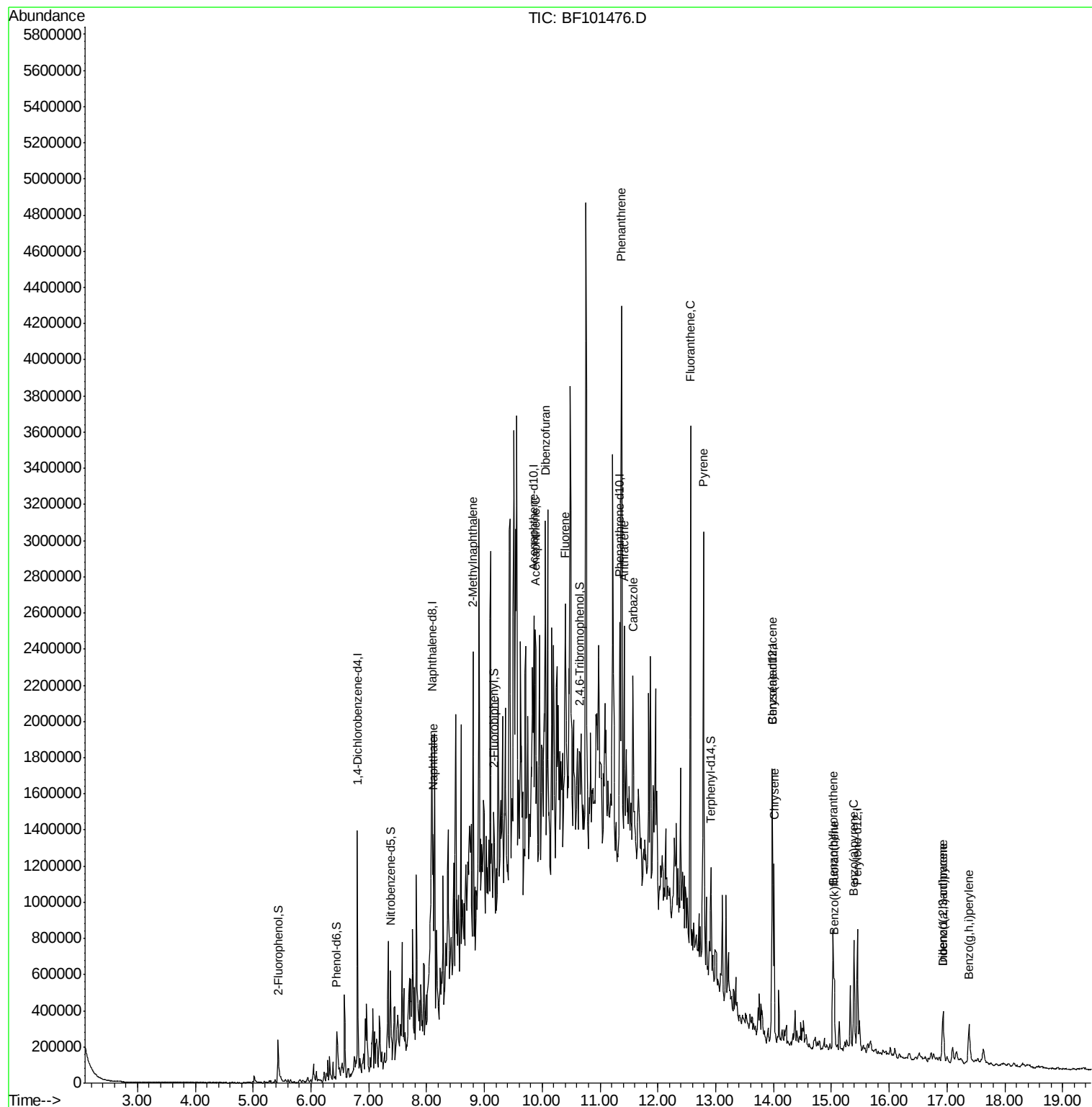
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
Data File : BF101476.D
Acq On : 18 Dec 2017 13:15
Operator : SJ/JU
Sample : I6678-01DL 10X
Misc :
ALS Vial : 5 Sample Multiplier: 1

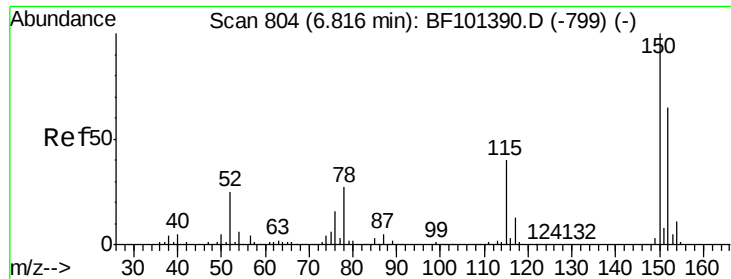
Instrument :
BNA_F
ClientSampleId :
JC-01-121317DL

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM

Quant Time: Dec 18 15:52:47 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

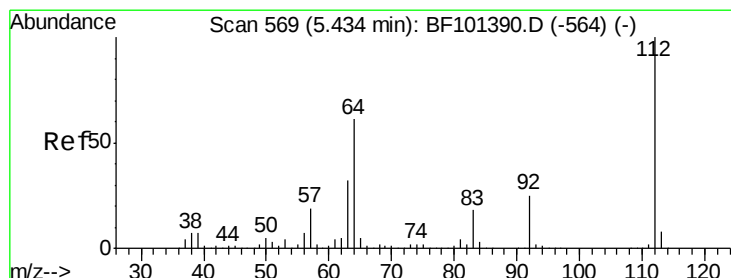
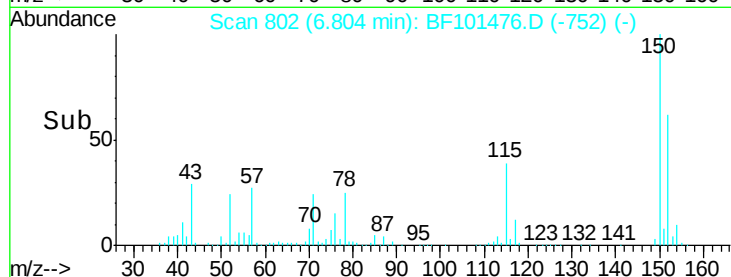
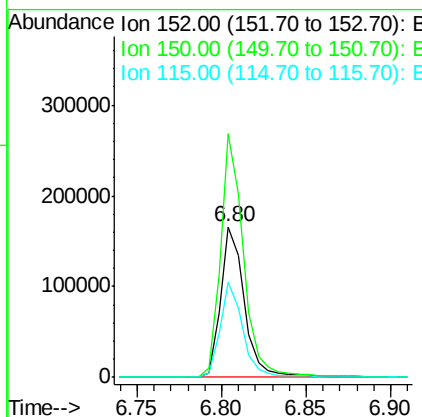
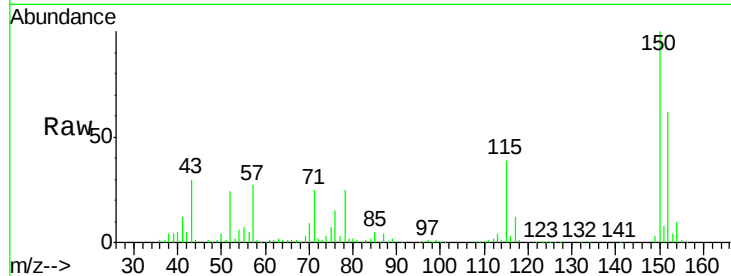
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Instrument :
BNA_F
ClientSampleId :
JC-01-121317DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.9	124.6	186.8
115	63.1	50.1	75.1

Manual Integrations
APPROVED

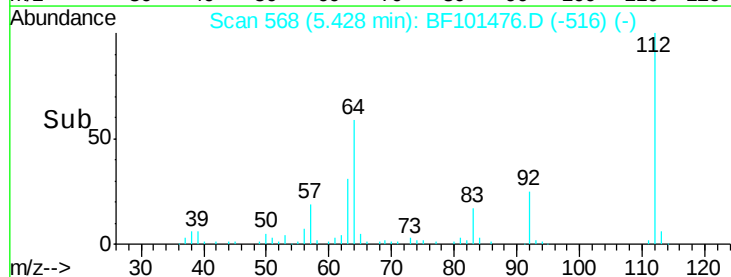
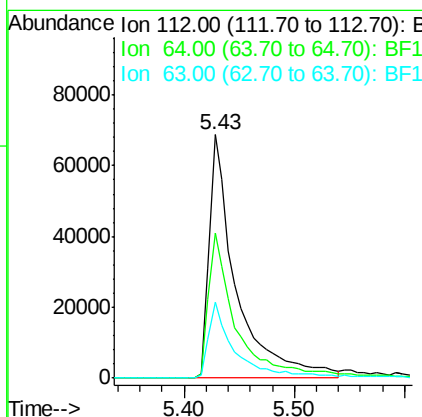
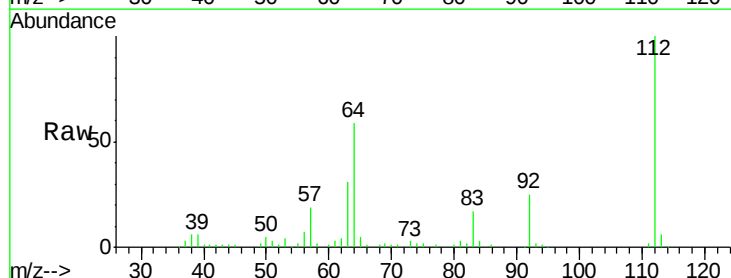
Sohil
12/19/2017 4:49:26 PM

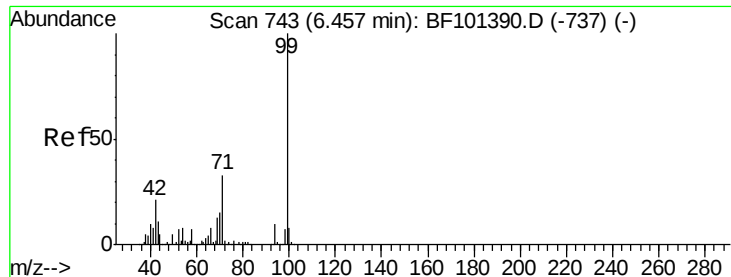


#5

2-Fluorophenol
Concen: 10.522 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.5	47.9	71.9
63	31.3	23.7	35.5





#7

Phenol-d6

Concen: 11.683 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

ClientSampleId :

JC-01-121317DL

Tgt Ion: 99 Resp: 158836

Ion Ratio Lower Upper

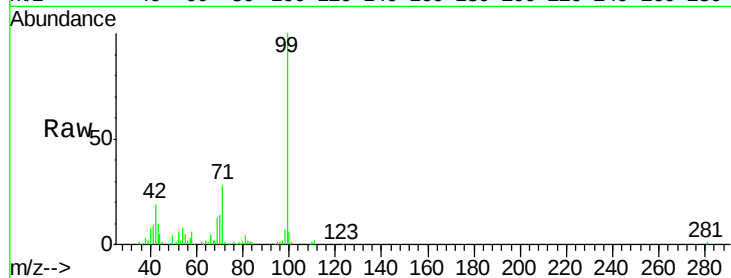
99 100

42 18.5 14.5 21.7

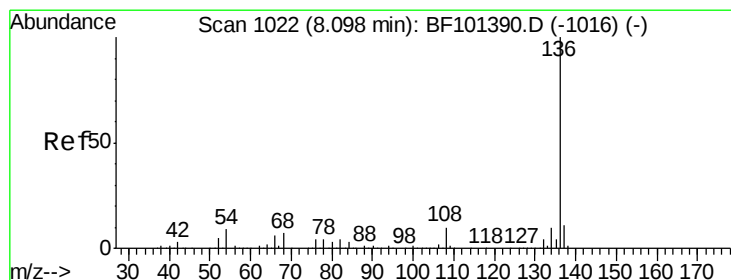
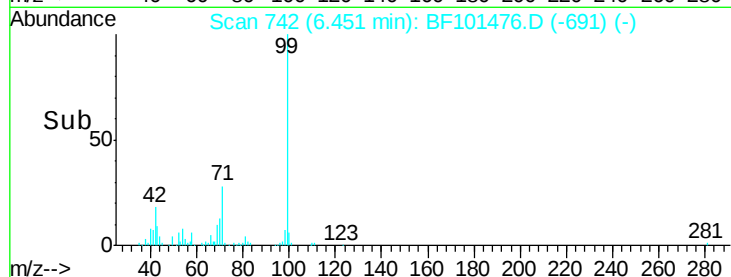
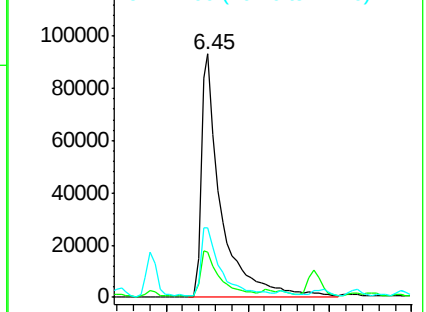
71 28.4 25.4 38.0

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



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: 8.09 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion: 136 Resp: 641047

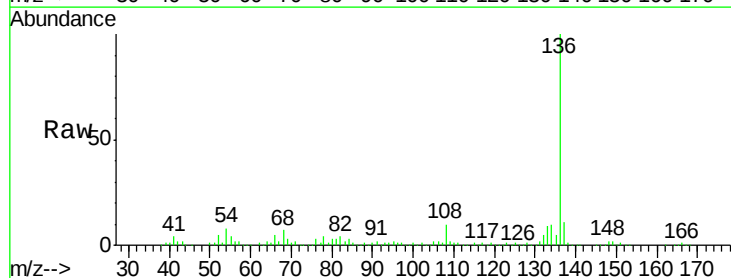
Ion Ratio Lower Upper

136 100

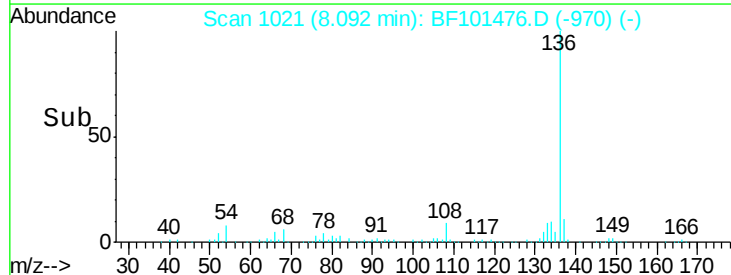
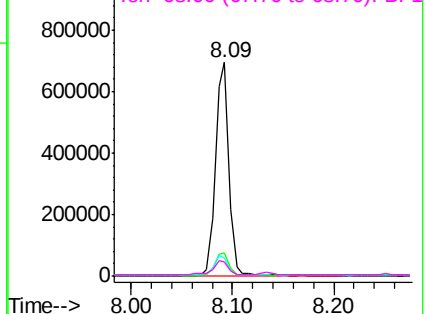
137 10.8 8.9 13.3

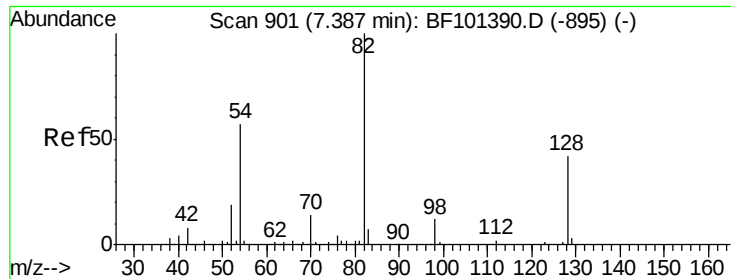
54 8.5 6.6 9.8

68 6.6 5.0 7.4



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





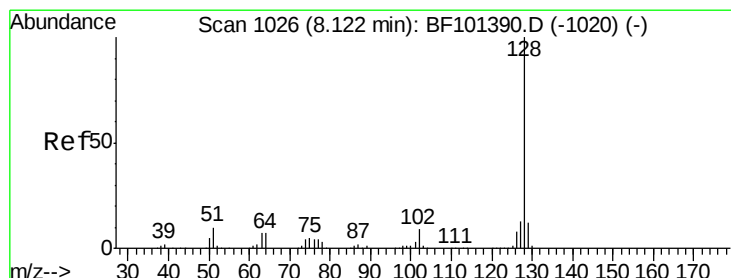
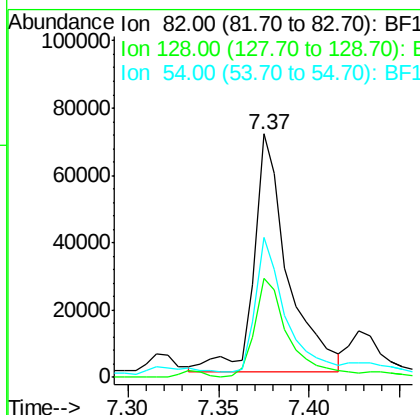
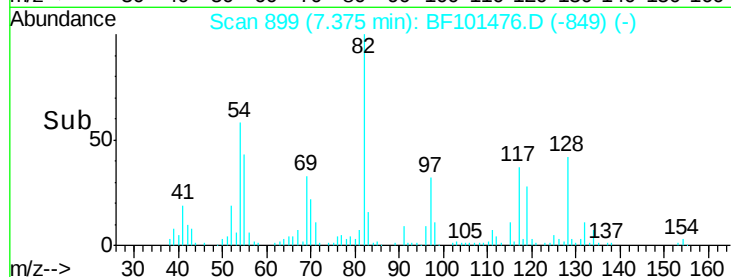
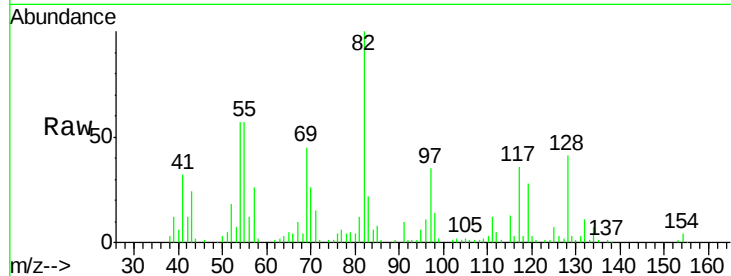
#23
 Nitrobenzene-d5
 Concen: 7.978 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: BF101476.D
 Acq: 18 Dec 2017 13:15

Instrument :
 BNA_F
 ClientSampleId :
 JC-01-121317DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.8	36.1	54.1
54	57.4	41.4	62.2

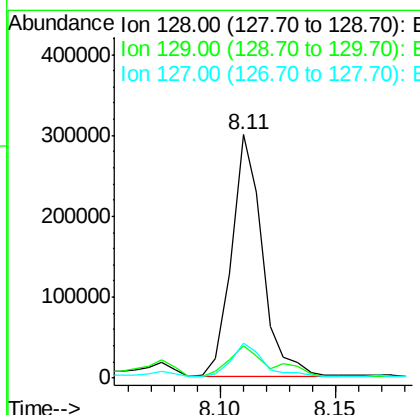
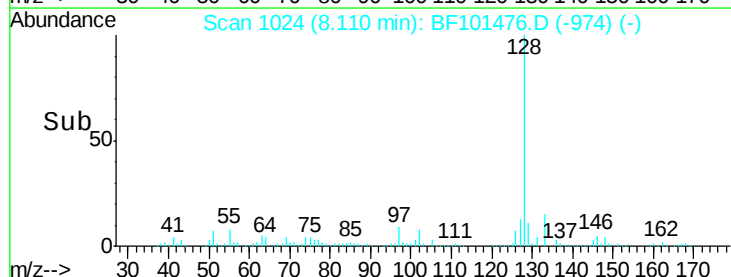
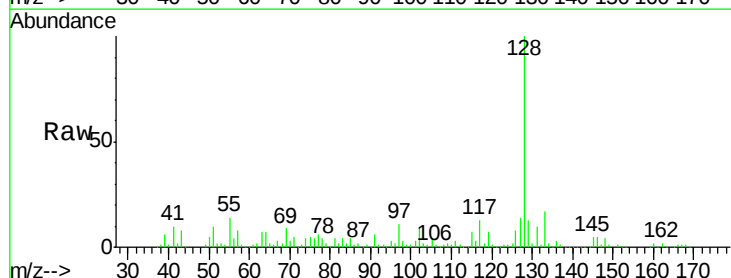
Manual Integrations
 APPROVED

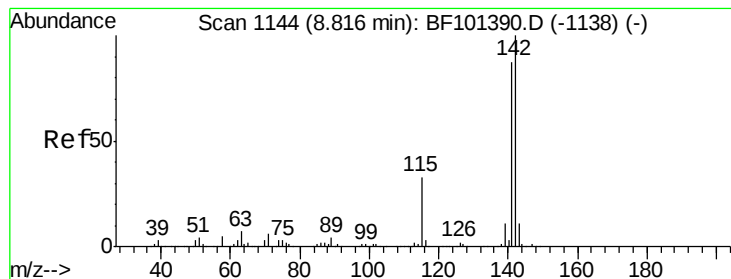
Sohil
 12/19/2017 4:49:26 PM



#31
 Naphthalene
 Concen: 8.604 ng
 RT: 8.11 min Scan# 1024
 Delta R.T. -0.01 min
 Lab File: BF101476.D
 Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.1	8.8	13.2
127	14.2	10.9	16.3





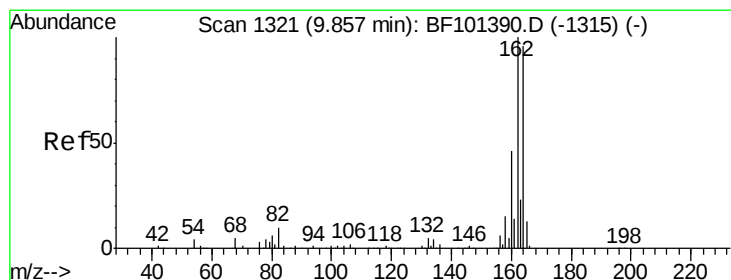
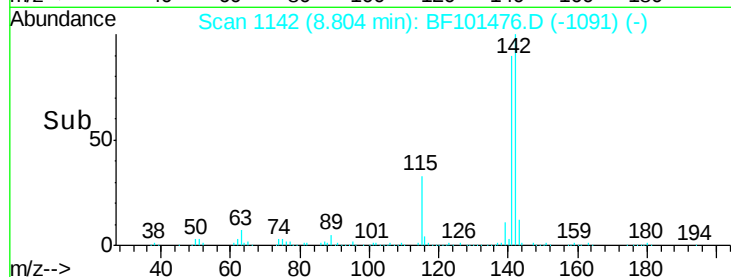
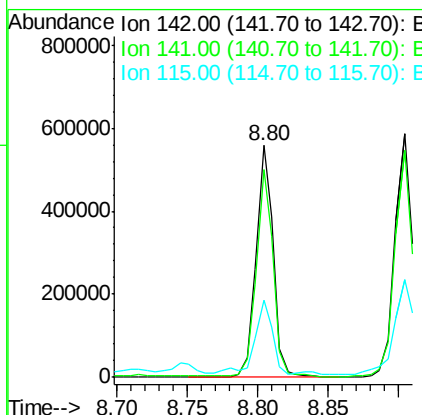
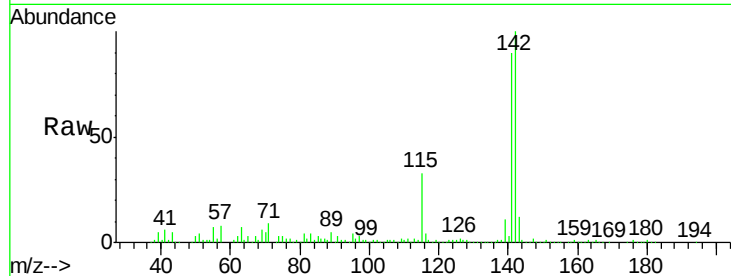
#37
 2-Methylnaphthalene
 Concen: 22.634 ng
 RT: 8.80 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: BF101476.D
 Acq: 18 Dec 2017 13:15

Instrument :
 BNA_F
 ClientSampleId :
 JC-01-121317DL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	475903		
141	89.9	70.8	106.2	
115	33.4	26.1	39.1	

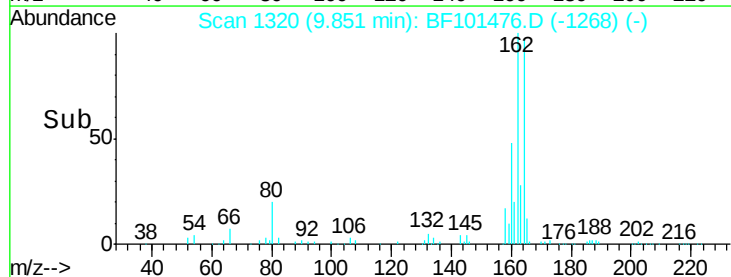
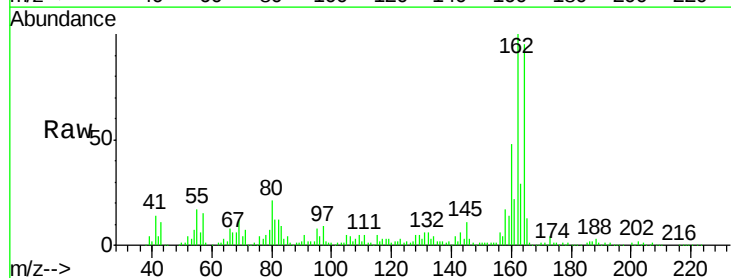
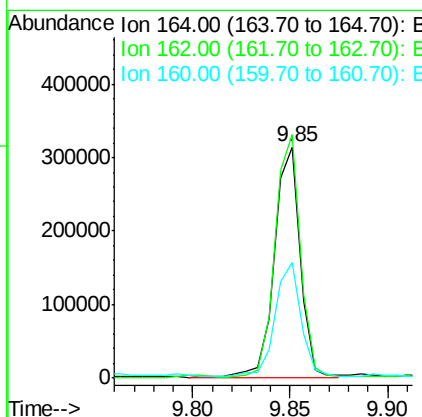
Manual Integrations
 APPROVED

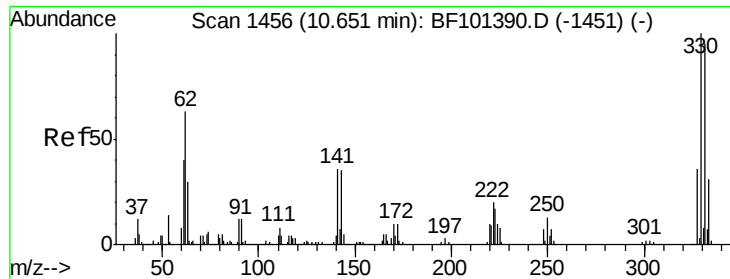
Sohil
 12/19/2017 4:49:26 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.01 min
 Lab File: BF101476.D
 Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	284728		
162	105.4	86.1	129.1	
160	50.1	38.3	57.5	





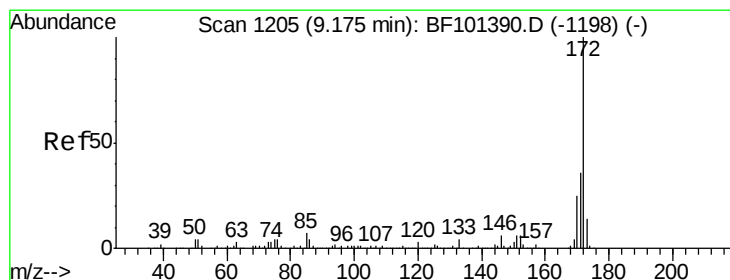
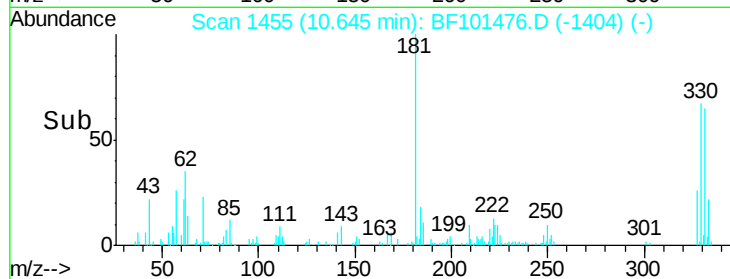
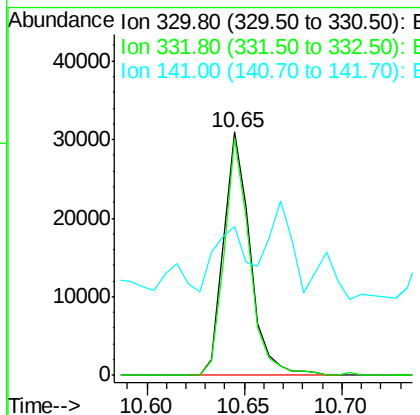
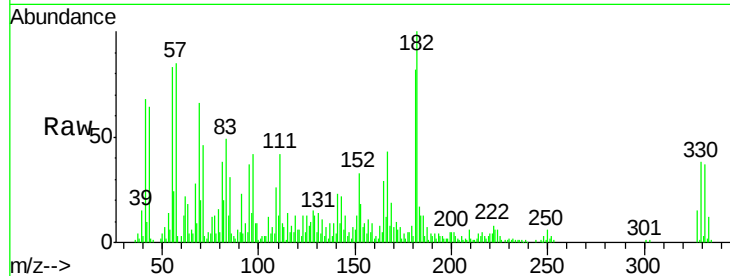
#41
 2,4,6-Tribromophenol
 Concen: 10.611 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: BF101476.D
 Acq: 18 Dec 2017 13:15

Instrument :
 BNA_F
 ClientSampleId :
 JC-01-121317DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	29112		
332	93.3	77.0	115.6	
141	33.7	29.9	44.9	

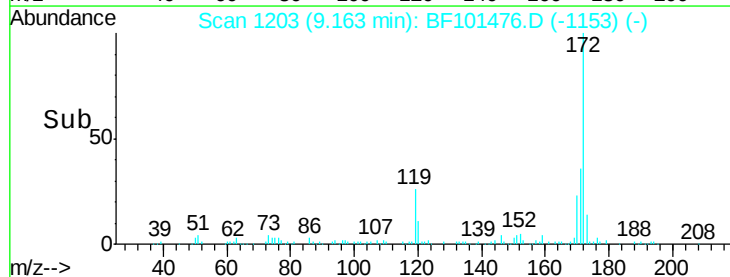
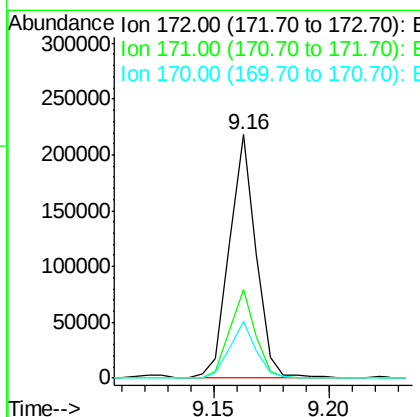
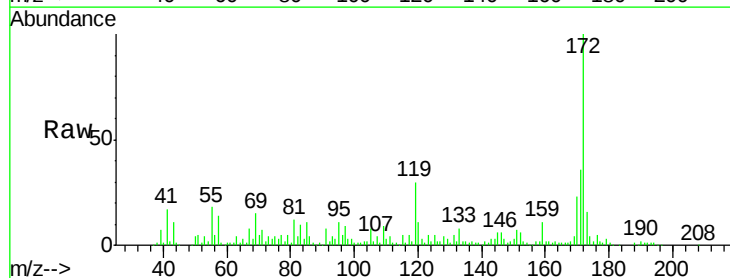
Manual Integrations
 APPROVED

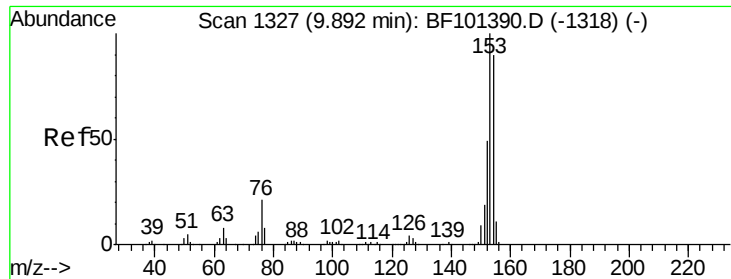
Sohil
 12/19/2017 4:49:26 PM



#44
 2-Fluorobiphenyl
 Concen: 9.460 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF101476.D
 Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	173632		
171	36.4	29.7	44.5	
170	23.1	19.6	29.4	





#51

Acenaphthene

Concen: 10.669 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

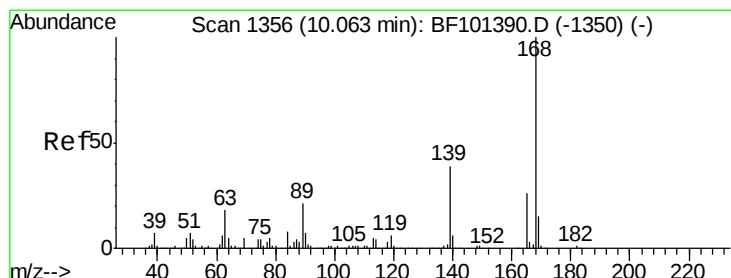
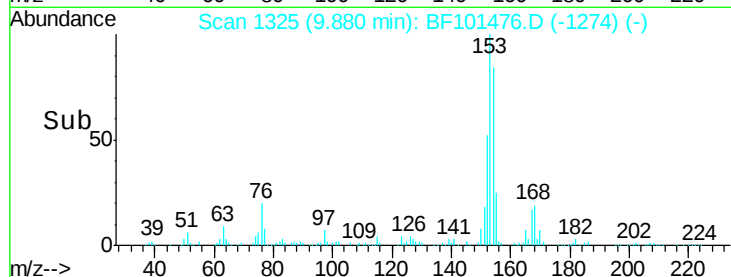
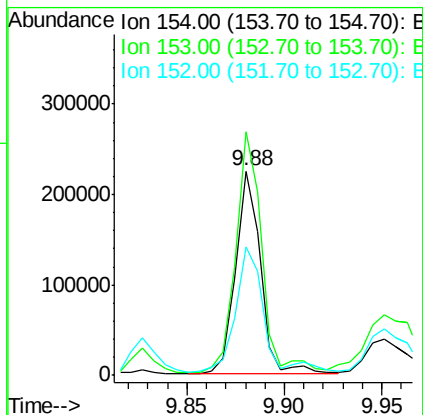
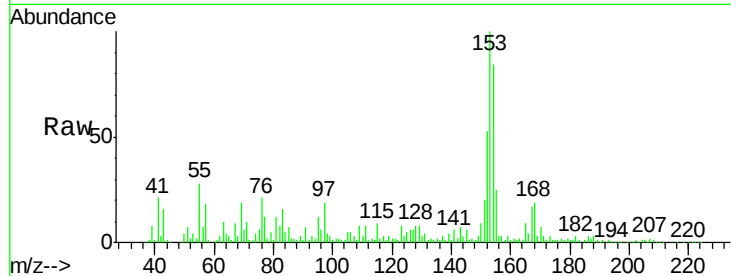
ClientSampleId :

JC-01-121317DL

Tgt Ion:	154	Resp:	195610
Ion Ratio	Lower	Upper	
154	100		
153	119.4	91.2	136.8
152	62.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#54

Dibenzofuran

Concen: 8.124 ng

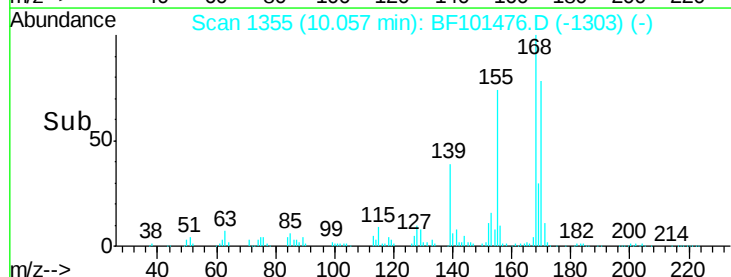
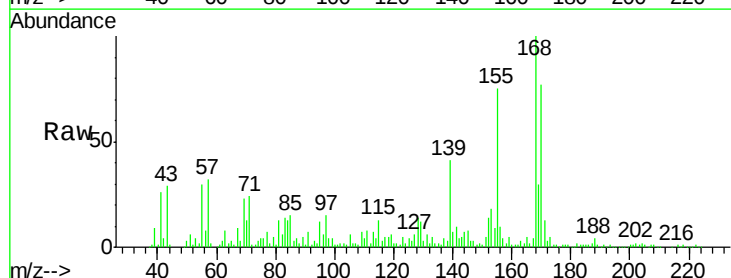
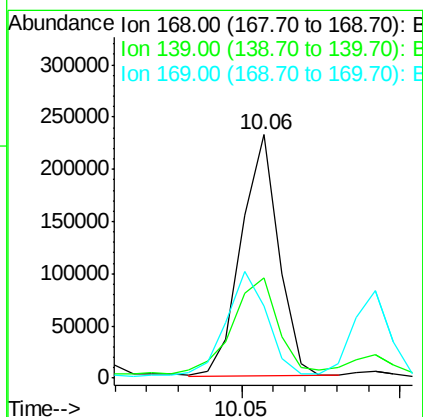
RT: 10.06 min Scan# 1355

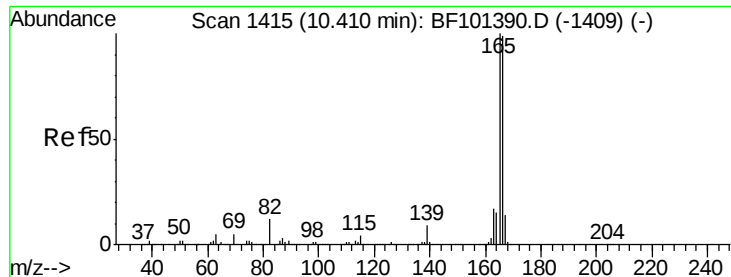
Delta R.T. 0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion:	168	Resp:	189297
Ion Ratio	Lower	Upper	
168	100		
139	41.2	30.1	45.1
169	29.7	10.9	16.3#





#57

Fluorene

Concen: 16.580 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.00 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

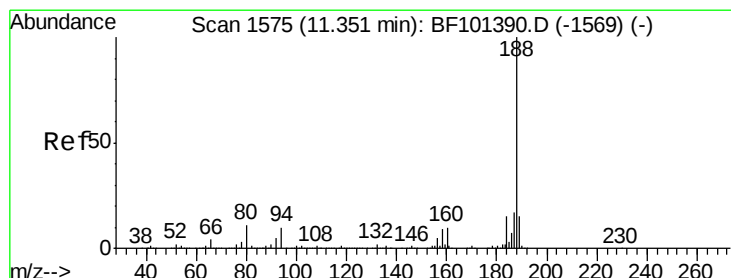
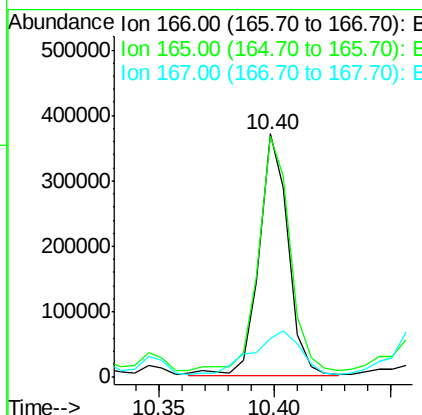
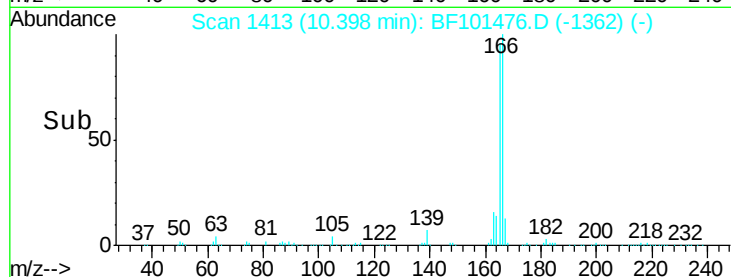
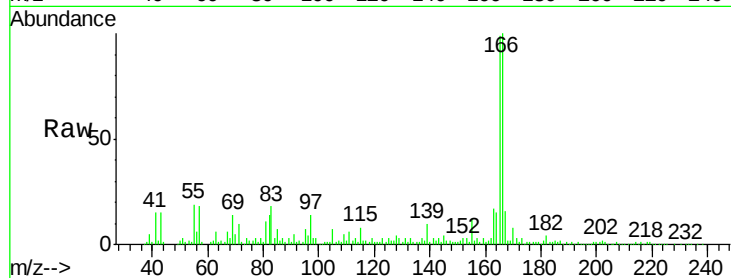
ClientSampleId :

JC-01-121317DL

Tgt Ion:	166	Resp:	326812
Ion Ratio	Lower	Upper	
166	100		
165	98.8	79.8	119.8
167	16.1	10.6	16.0#

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

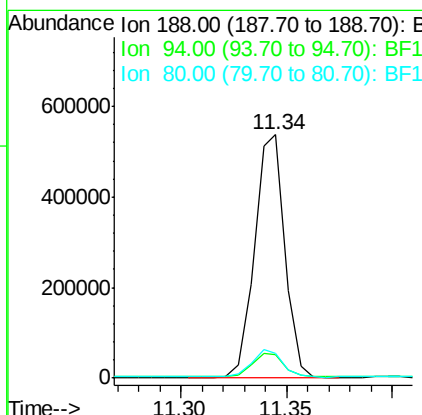
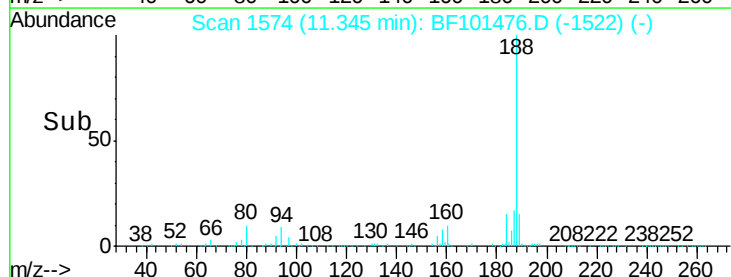
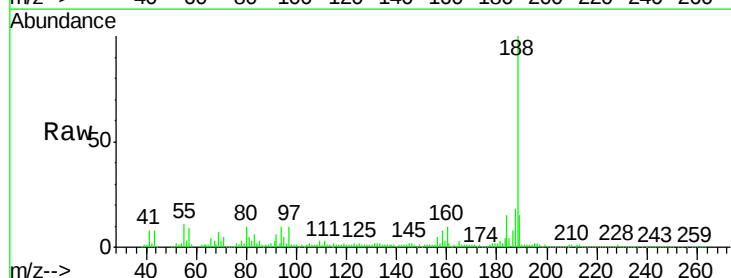
RT: 11.34 min Scan# 1574

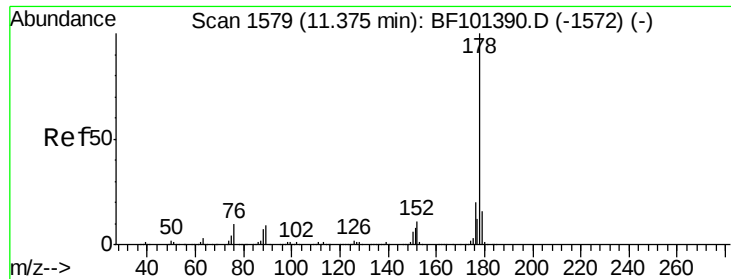
Delta R.T. 0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion:	188	Resp:	531552
Ion Ratio	Lower	Upper	
188	100		
94	9.5	8.5	12.7
80	10.3	9.2	13.8





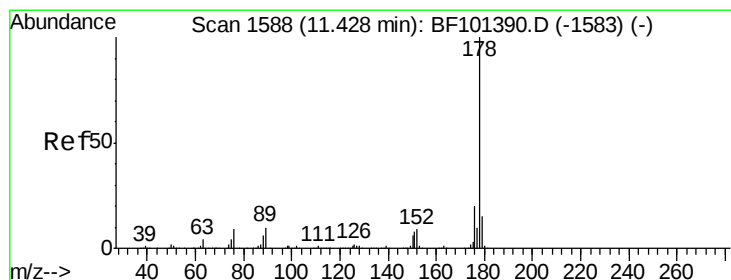
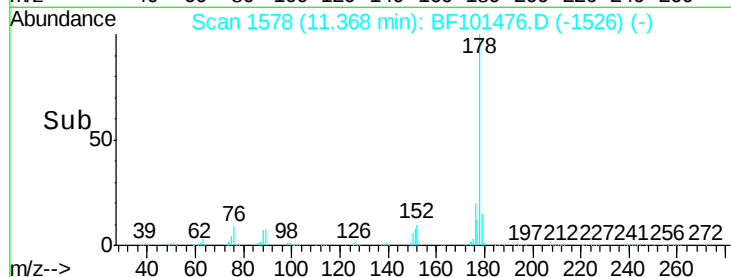
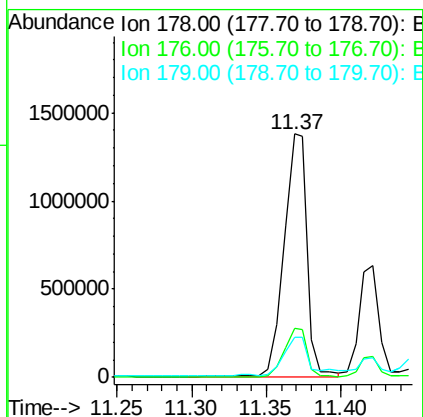
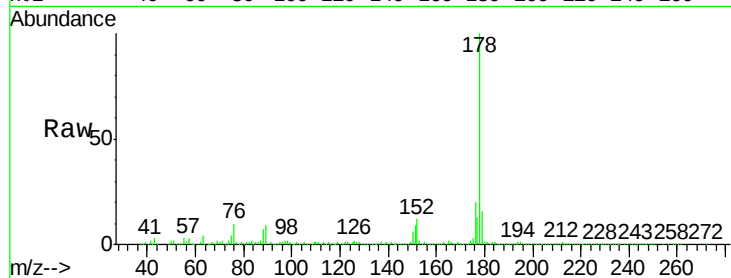
#70
Phenanthrene
Concen: 50.726 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Instrument :
BNA_F
ClientSampleId :
JC-01-121317DL

Tgt Ion:178 Resp: 1499469
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 16.4 13.0 19.6

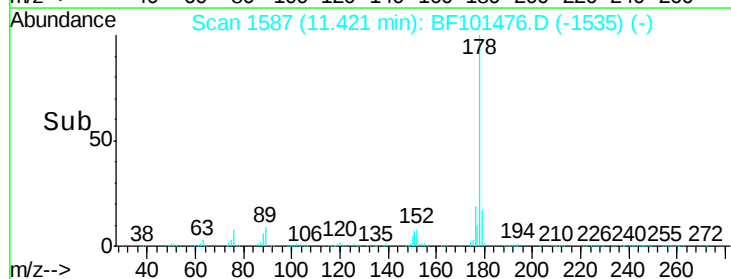
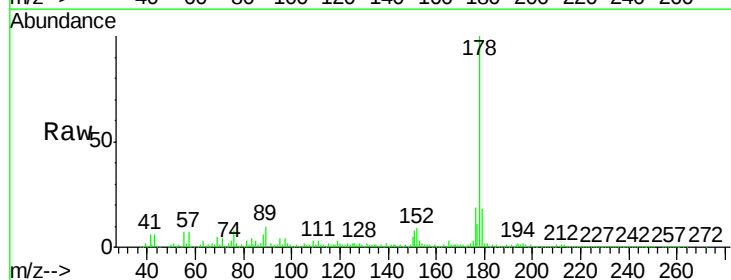
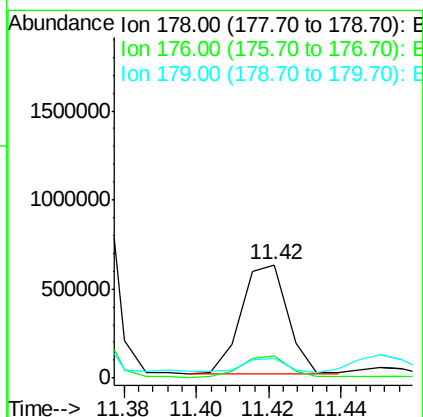
Manual Integrations
APPROVED

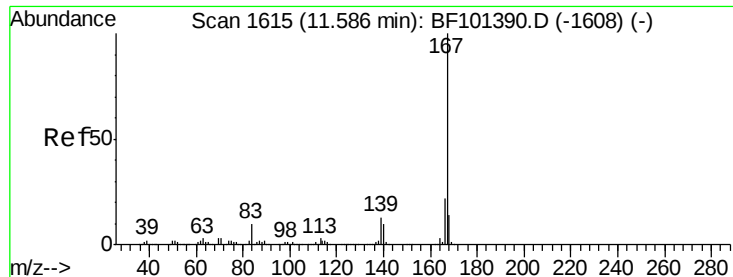
Sohil
12/19/2017 4:49:26 PM



#71
Anthracene
Concen: 18.260 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Tgt Ion:178 Resp: 551372
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 17.8 12.6 19.0





#72

Carbazole

Concen: 4.820 ng

RT: 11.57 min Scan# 1613

Delta R.T. -0.00 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

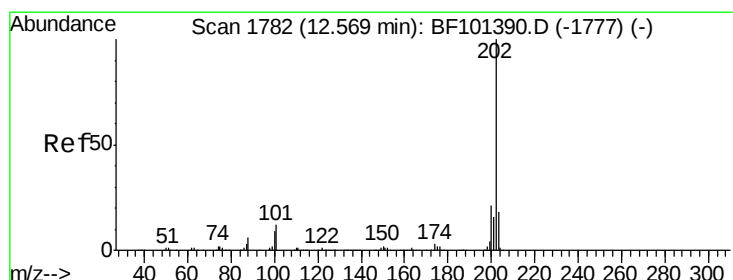
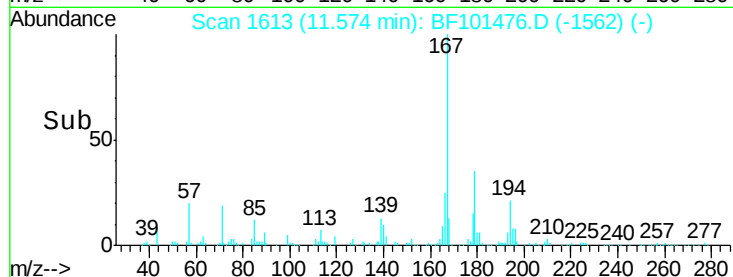
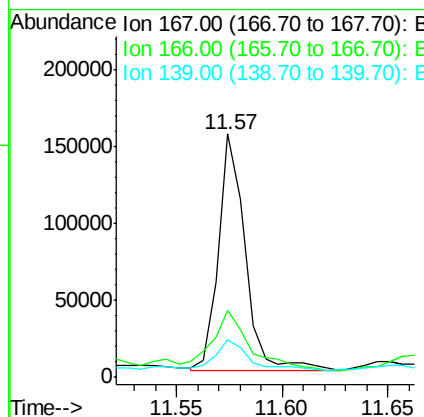
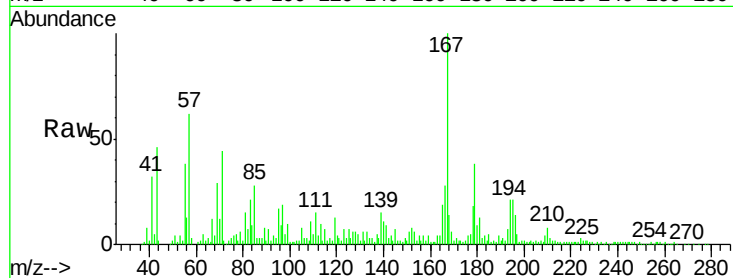
ClientSampleId :

JC-01-121317DL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	27.6	17.6	26.4#
139	15.4	10.9	16.3

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#74

Fluoranthene

Concen: 41.627 ng

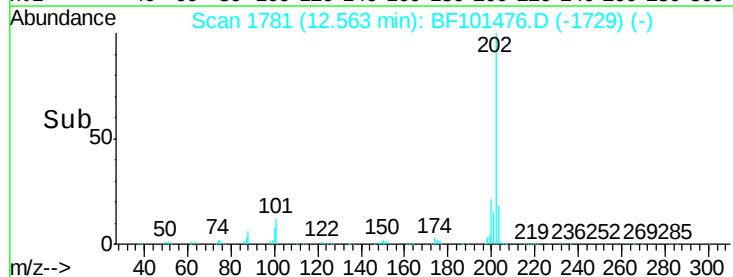
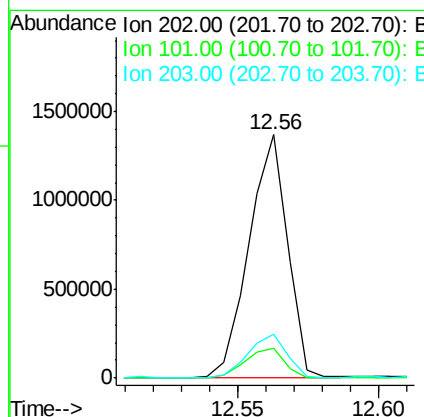
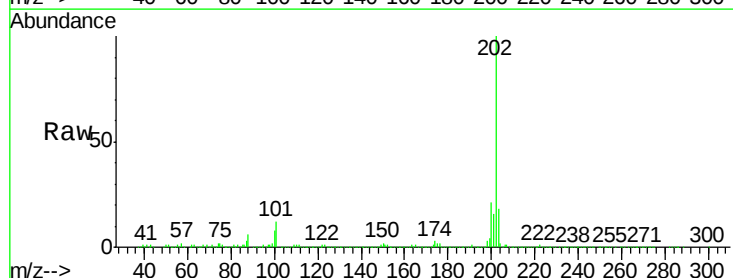
RT: 12.56 min Scan# 1781

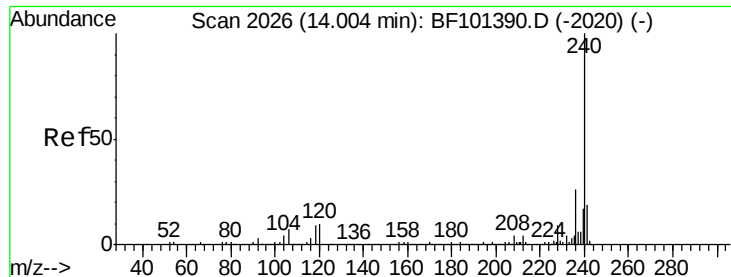
Delta R.T. 0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.00 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

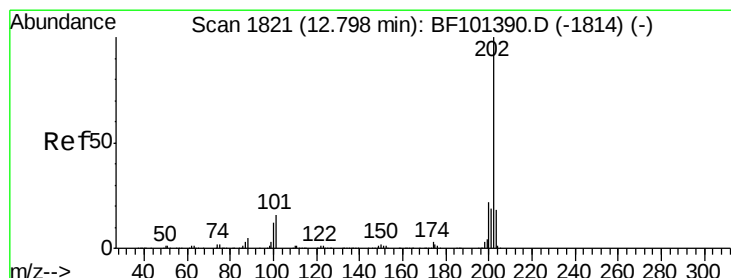
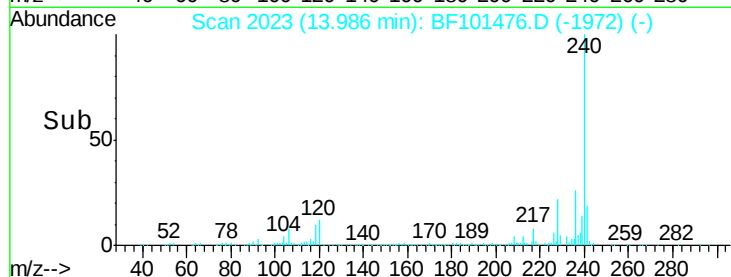
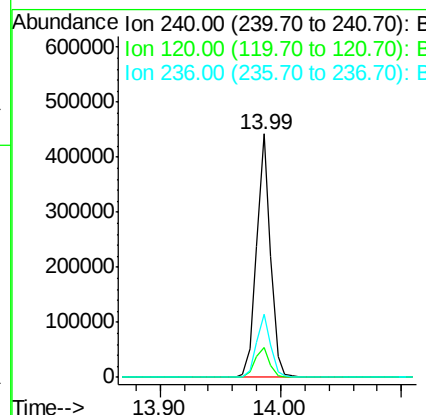
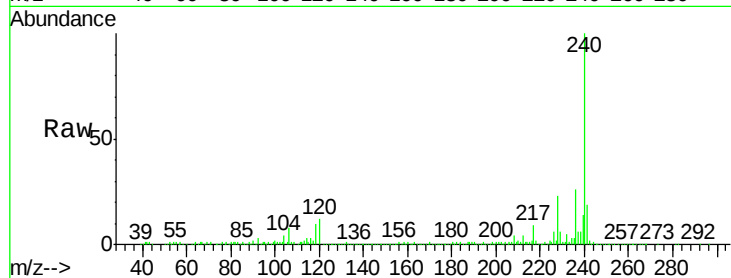
ClientSampleId :

JC-01-121317DL

Tgt Ion:	240	Resp:	354920
Ion Ratio	Lower	Upper	
240	100		
120	12.3	9.5	14.3
236	26.2	20.7	31.1

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#77

Pyrene

Concen: 42.777 ng

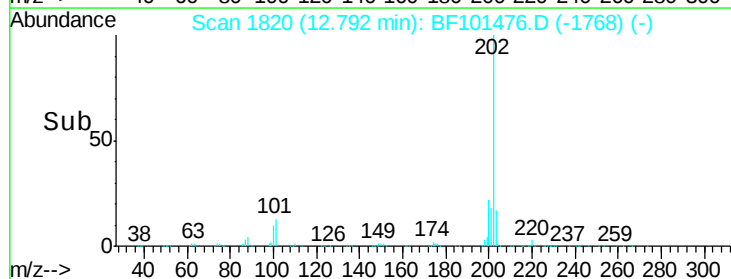
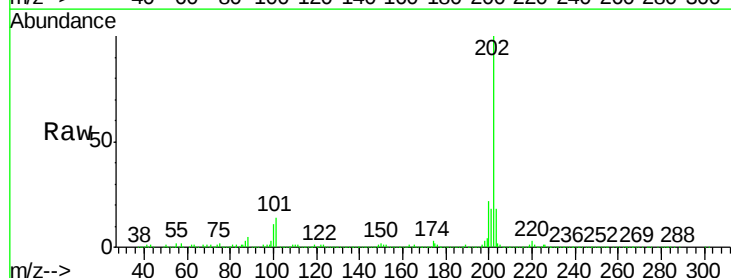
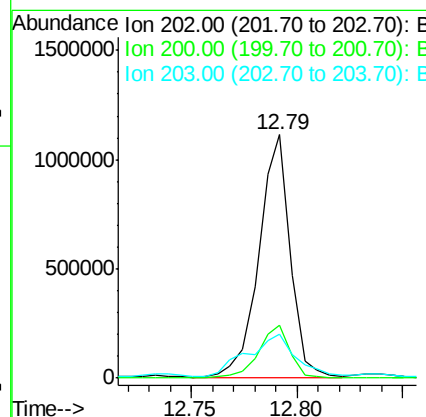
RT: 12.79 min Scan# 1820

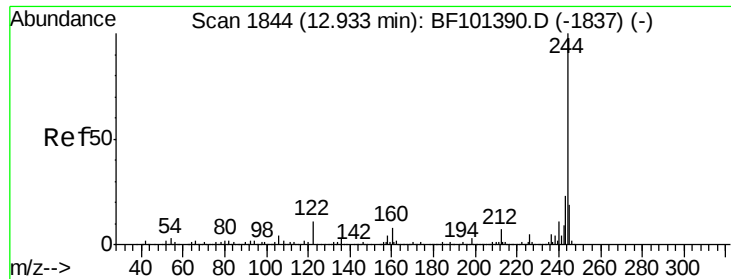
Delta R.T. 0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion:	202	Resp:	1139443
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	18.2	14.3	21.5





#78

Terphenyl-d14

Concen: 11.811 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

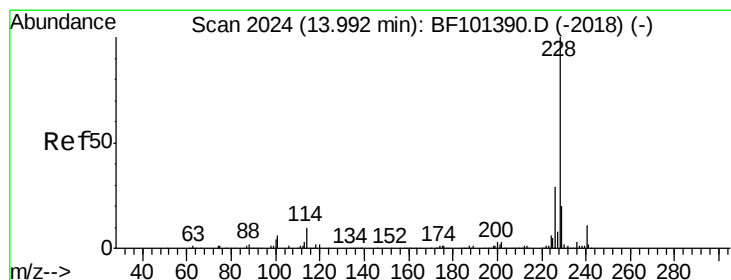
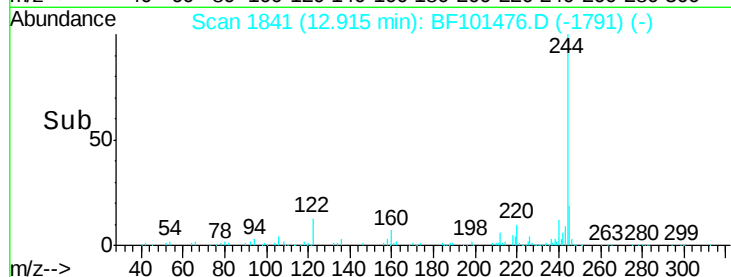
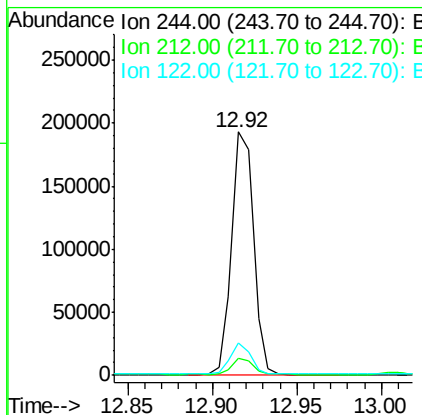
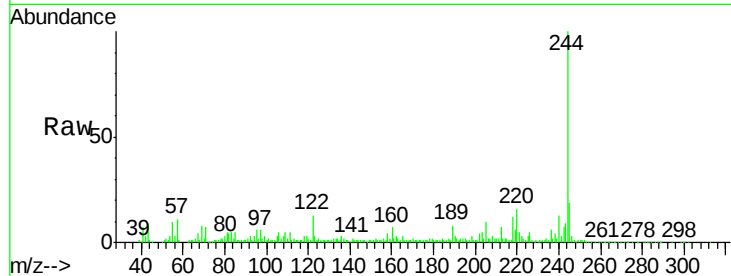
ClientSampleId :

JC-01-121317DL

Tgt Ion:	244	Resp:	173879
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.4	8.0
122	13.3	11.0	16.4

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#80

Benzo(a)anthracene

Concen: 20.639 ng

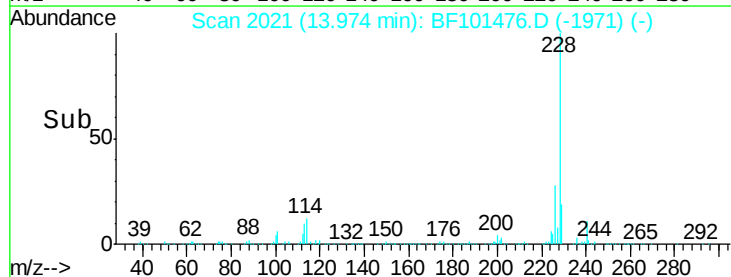
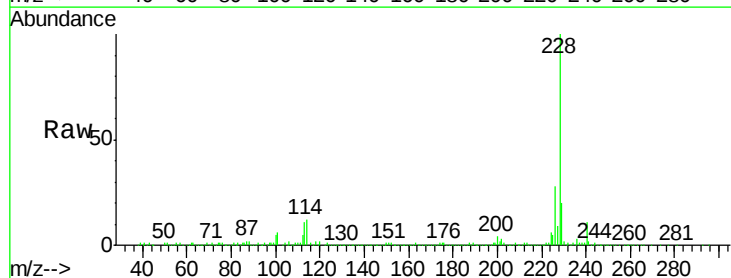
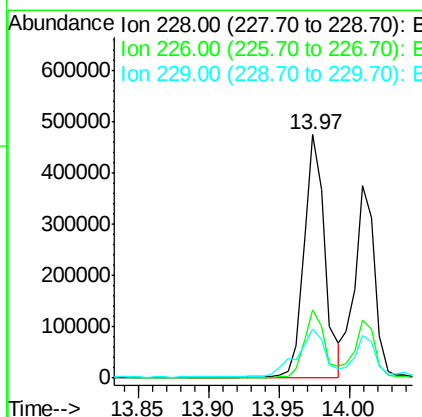
RT: 13.97 min Scan# 2021

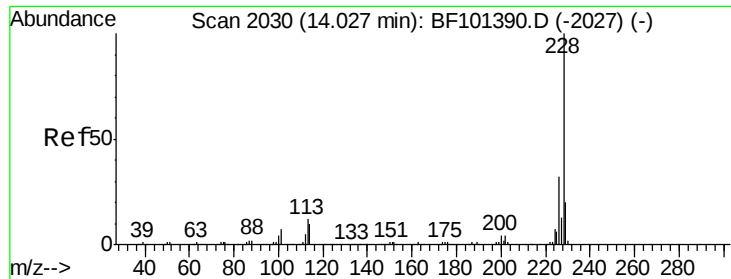
Delta R.T. -0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion:	228	Resp:	483698
Ion Ratio	Lower	Upper	
228	100		
226	28.0	22.6	33.8
229	20.3	15.8	23.6





#82

Chrysene

Concen: 16.848 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Instrument :

BNA_F

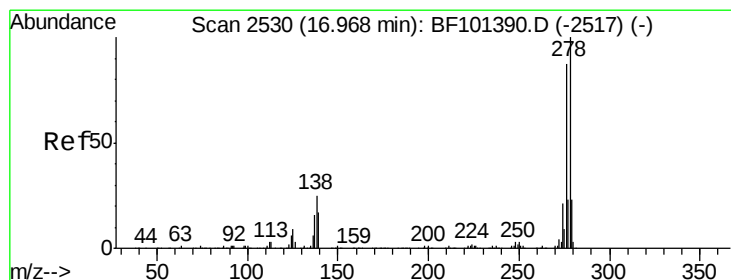
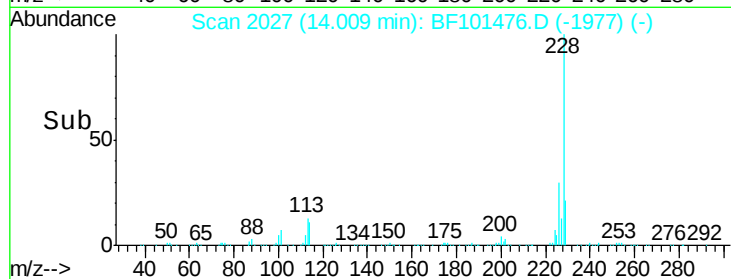
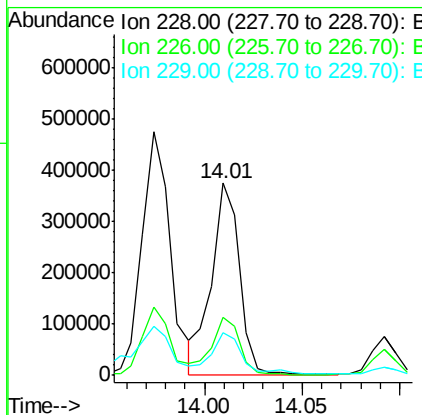
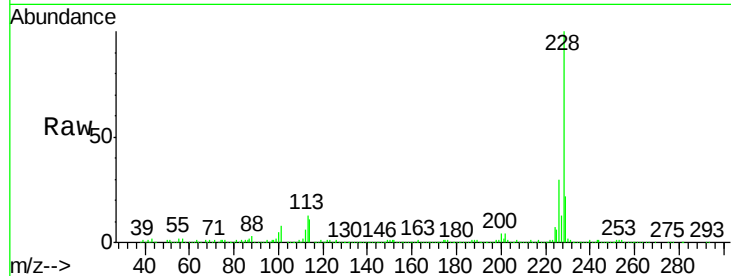
ClientSampleId :

JC-01-121317DL

Tgt Ion:	228	Resp:	372814
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.0	37.6
229	22.3	16.2	24.4

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.297 ng

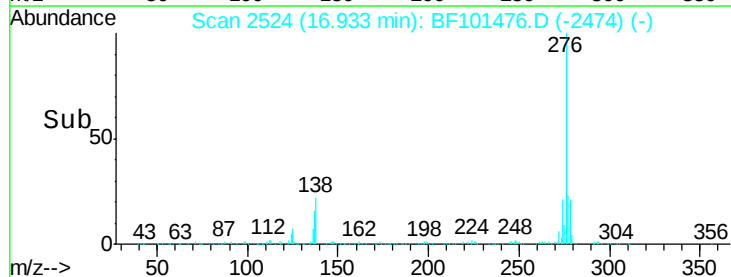
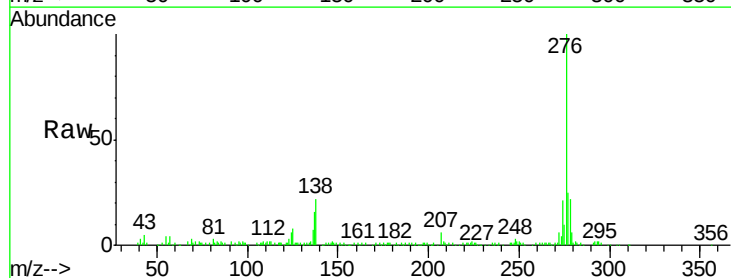
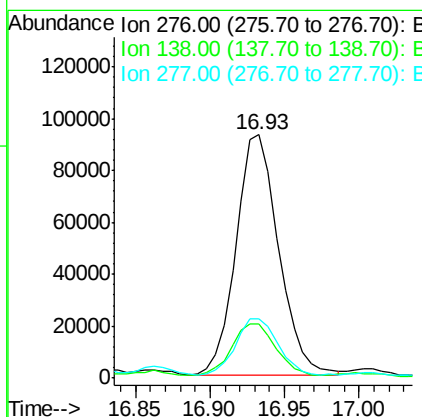
RT: 16.93 min Scan# 2524

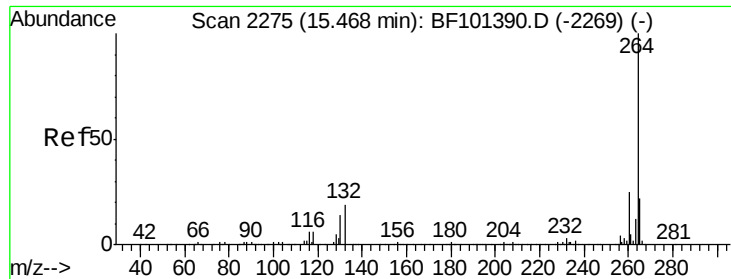
Delta R.T. -0.01 min

Lab File: BF101476.D

Acq: 18 Dec 2017 13:15

Tgt Ion:	276	Resp:	183204
Ion Ratio	Lower	Upper	
276	100		
138	22.6	25.0	37.6#
277	24.2	20.1	30.1





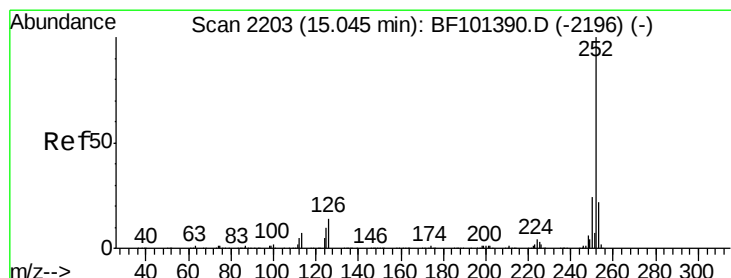
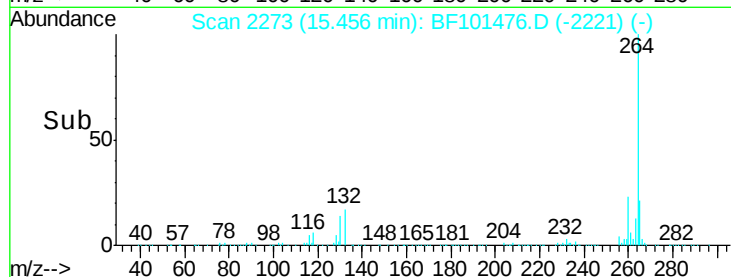
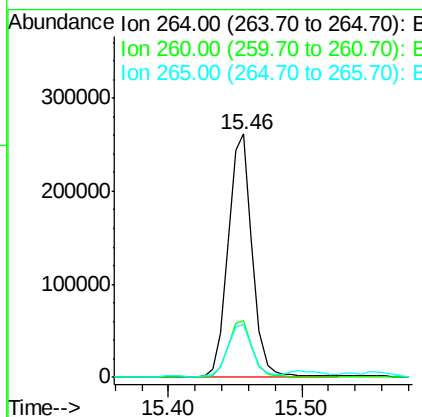
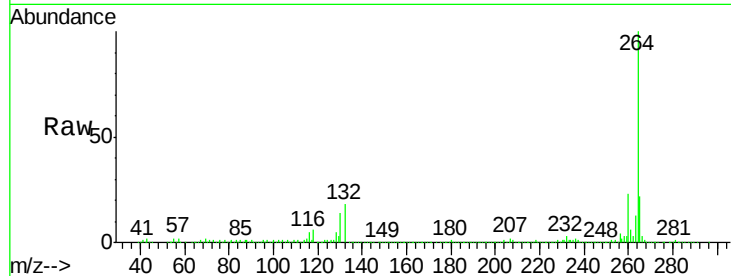
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Instrument :
BNA_F
ClientSampleId :
JC-01-121317DL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.6	17.5	26.3

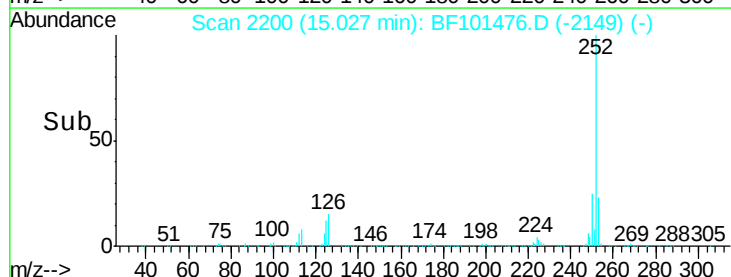
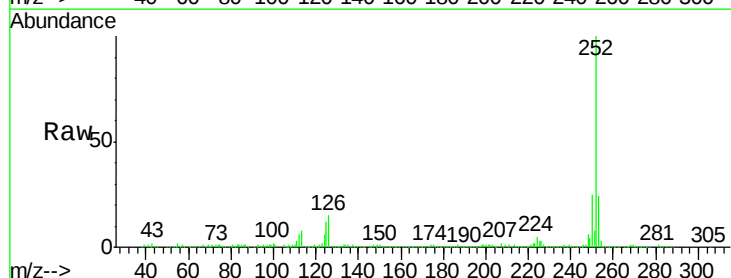
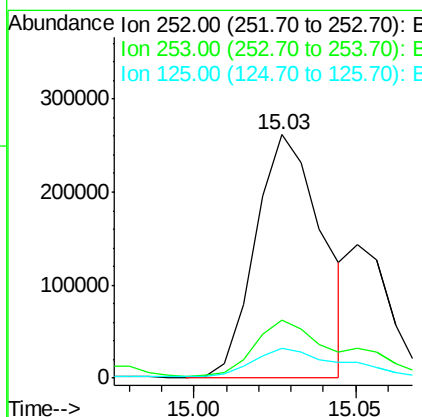
Manual Integrations
APPROVED

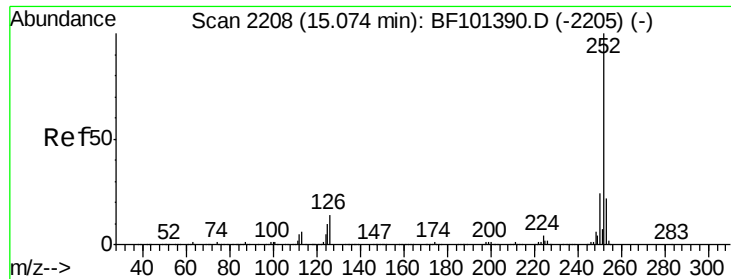
Sohil
12/19/2017 4:49:26 PM



#87
Benzo(b)fluoranthene
Concen: 18.840 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.00 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.6
125	12.1	9.0	13.6





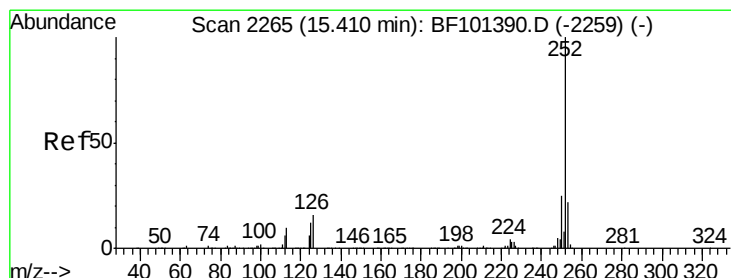
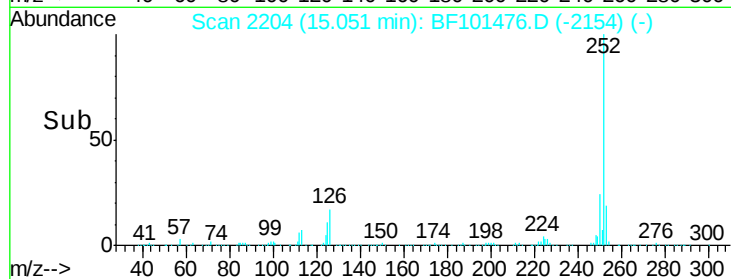
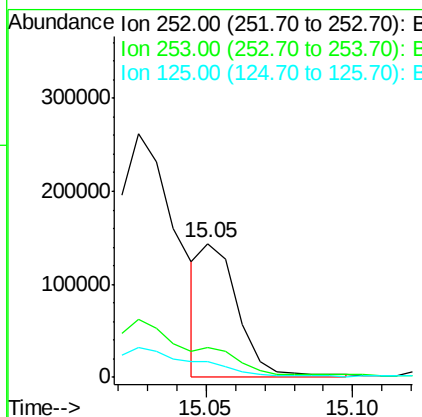
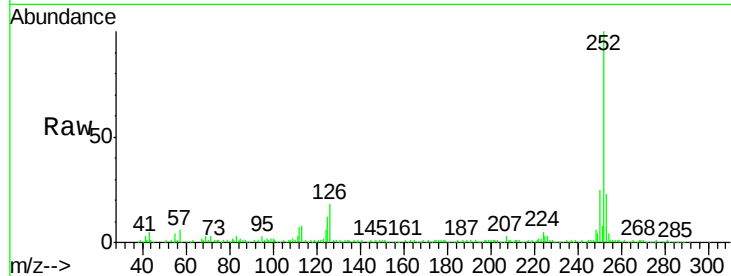
#88
Benzo(k)fluoranthene
Concen: 6.616 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Instrument :
BNA_F
ClientSampleId :
JC-01-121317DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	12.0	10.2	15.2

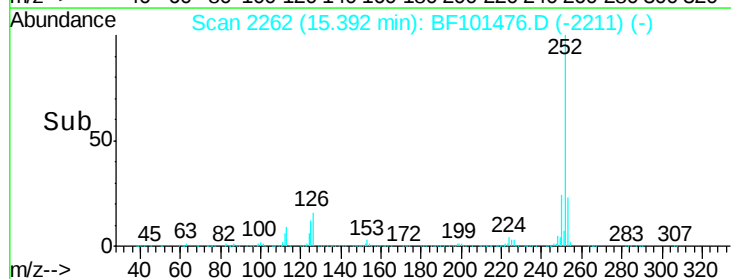
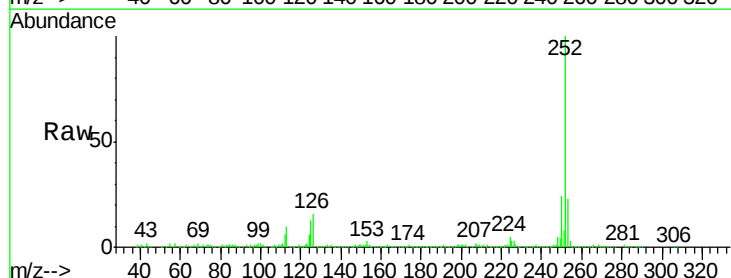
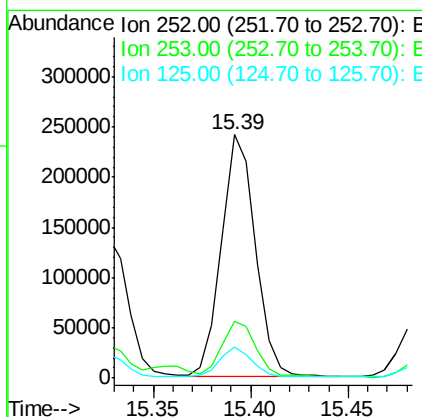
Manual Integrations
APPROVED

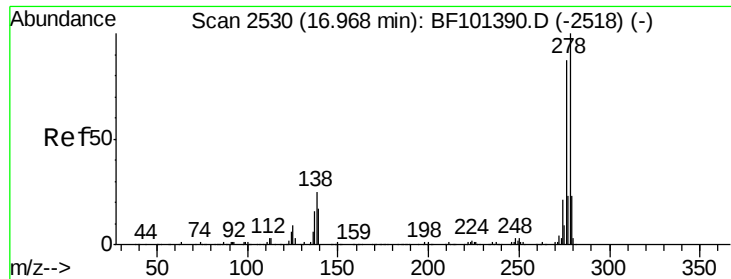
Sohil
12/19/2017 4:49:26 PM



#89
Benzo(a)pyrene
Concen: 15.851 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.00 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	12.6	9.8	14.6





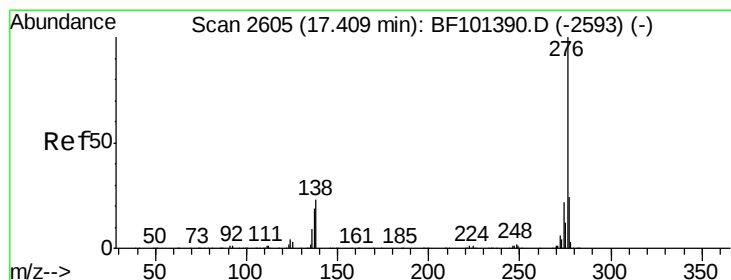
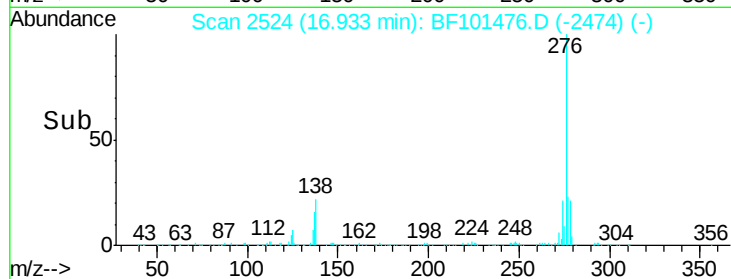
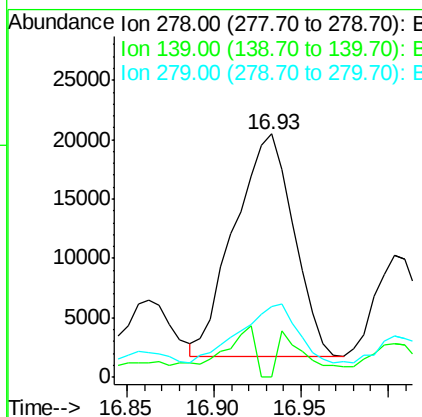
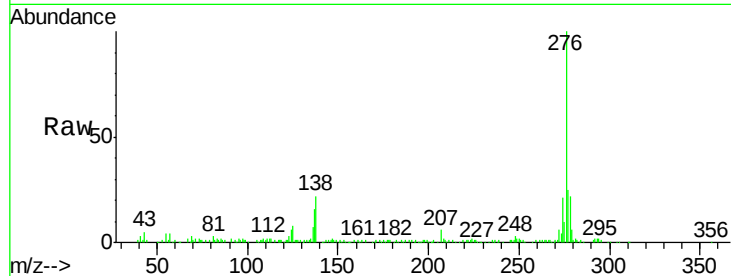
#90
Dibenzo(a,h)anthracene
Concen: 2.781 ng m
RT: 16.93 min Scan# 2524
Delta R.T. -0.01 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Instrument :
BNA_F
ClientSampleId :
JC-01-121317DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.3	19.0	28.4#

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:26 PM



#91
Benzo(g,h,i)perylene
Concen: 10.672 ng
RT: 17.38 min Scan# 2600
Delta R.T. -0.00 min
Lab File: BF101476.D
Acq: 18 Dec 2017 13:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	17.9	26.9
138	24.3	21.8	32.8

