

Data Path : Z:\HPCHEM1\BNA M\DATA\BM113015\
 Data File : BM003323.D
 Acq On : 30 Nov 2015 17:48
 Operator : UM/IZ
 Sample : G4221-26DL 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PT-PAH-SOILDL

Manual Integrations
 APPROVED

Mmdadoda
 12/1/2015 6:33:56 PM

Quant Time: Dec 01 03:30:36 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM112715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 27 16:36:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	67885	5.00	ng	-0.02
7) Naphthalene-d8	10.51	136	292918	5.00	ng	-0.02
13) Acenaphthene-d10	14.37	164	173471	5.00	ng	0.00
19) Phenanthrene-d10	17.11	188	407961	5.00	ng	0.00
26) Chrysene-d12	21.33	240	248832	5.00	ng	0.01
35) Perylene-d12	23.59	264	189000	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.31	112	49258	3.68	ng	0.00
5) Phenol-d6	6.88	99	68903	4.49	ng	-0.02
8) Nitrobenzene-d5	8.88	82	28904	2.22	ng	-0.01
14) 2,4,6-Tribromophenol	15.86	330	18402	4.67	ng	0.00
15) 2-Fluorobiphenyl	13.00	172	99305	1.77	ng	0.00
29) Terphenyl-d14	19.76	244	83377	2.40	ng	0.00
Target Compounds						Qvalue
10) Naphthalene	10.56	128	301763	4.77	ng	98
12) 2-Methylnaphthalene	12.18	142	134126	3.38	ng	95
16) Acenaphthylene	14.08	152	70074	1.10	ng	100
17) Acenaphthene	14.44	154	135985	2.77	ng	# 100
18) Fluorene	15.42	166	128315	2.59	ng	98
22) Pentachlorophenol	16.78	266	107	0.11	ng	# 76
23) Phenanthrene	17.17	178	274014	2.97	ng	97
24) Anthracene	17.24	178	428475	5.63	ng	97
25) Fluoranthene	19.19	202	259830	2.92	ng	100
28) Pyrene	19.55	202	187922	2.47	ng	98
30) Benzo(a)anthracene	21.31	228	121867m	1.93	ng	
32) Chrysene	21.35	228	174449m	2.48	ng	
33) Bis(2-ethylhexyl)phthalate	21.23	149	12263	0.66	ng	# 96
34) Indeno(1,2,3-cd)pyrene	25.86	276	209135	3.62	ng	# 79
36) Benzo(b)fluoranthene	22.90	252	210160	3.86	ng	98
37) Benzo(k)fluoranthene	22.94	252	131144	2.68	ng	97
38) Benzo(a)pyrene	23.48	252	140531	3.24	ng	99
39) Dibenzo(a,h)anthracene	25.87	278	193246	5.16	ng	97
40) Benzo(a,h,i)perylene	26.56	276	77360	1.72	ng	96

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

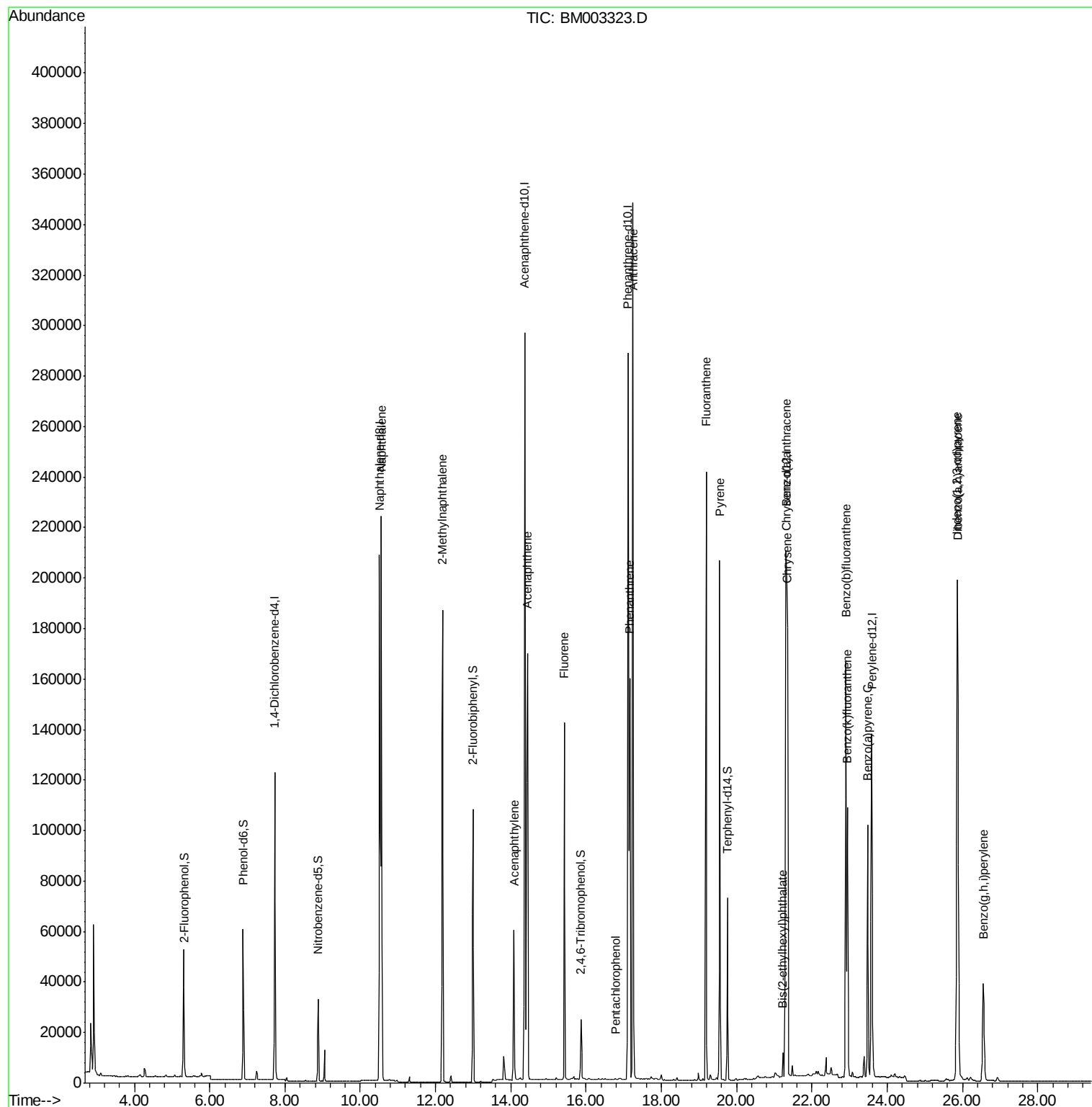
Data Path : Z:\HPCHEM1\BNA M\DATA\BM113015\
Data File : BM003323.D
Acq On : 30 Nov 2015 17:48
Operator : UM/IZ
Sample : G4221-26DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

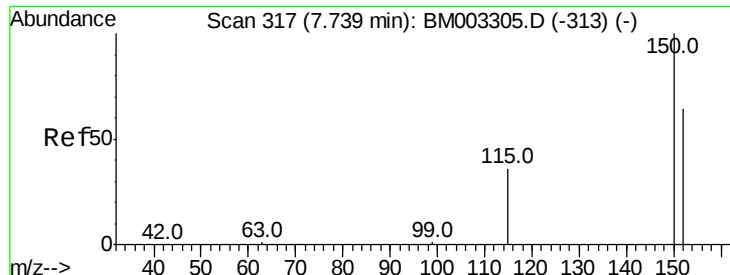
Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOILD

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM

Quant Time: Dec 01 03:30:36 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM112715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 27 16:36:40 2015
Response via : Initial Calibration





#1

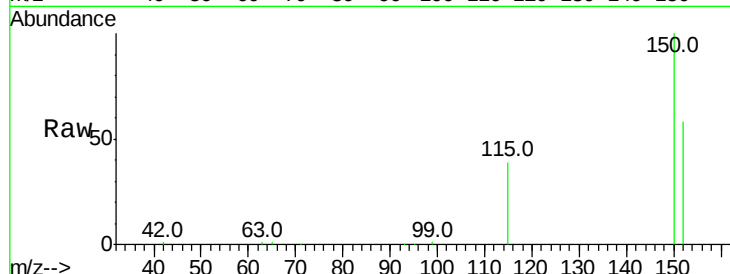
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.72 min Scan# 316
Delta R.T. -0.02 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	171.5	143.6	215.4
115	67.1	58.5	87.7

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM

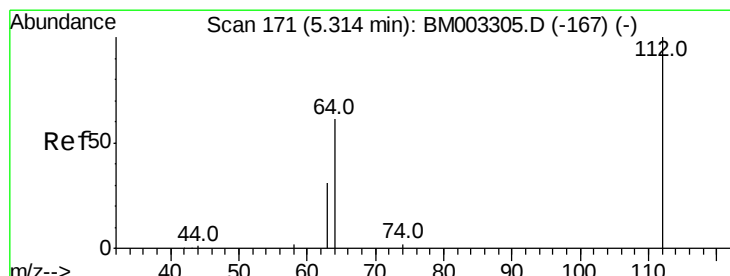
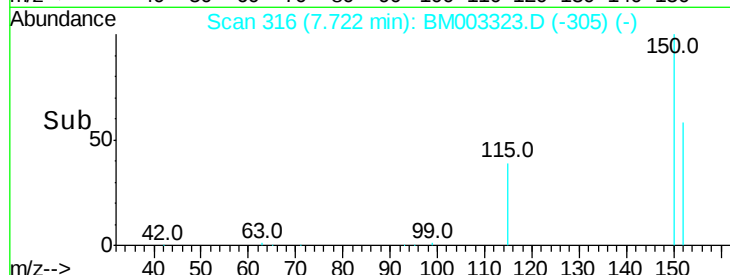
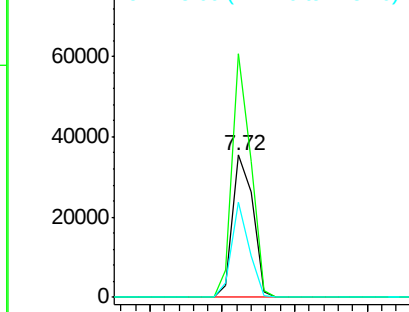


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

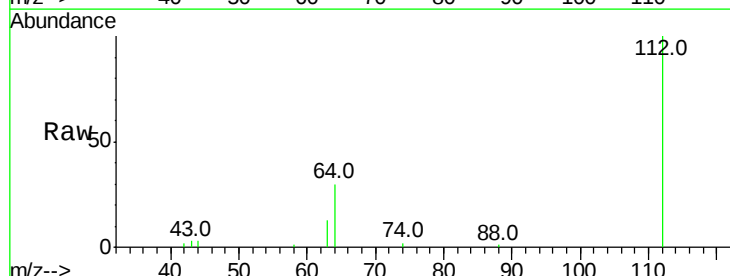
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 3.68 ng
RT: 5.31 min Scan# 171
Delta R.T. 0.00 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.7	41.2	61.8
63	26.4	21.2	31.8

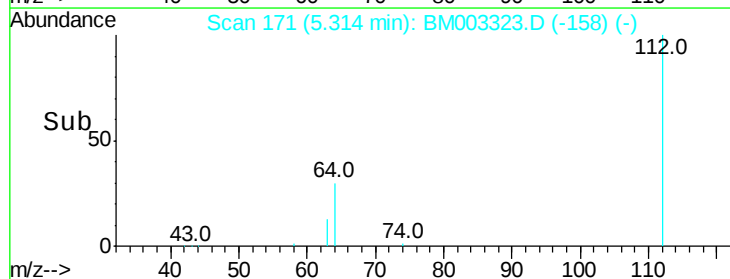
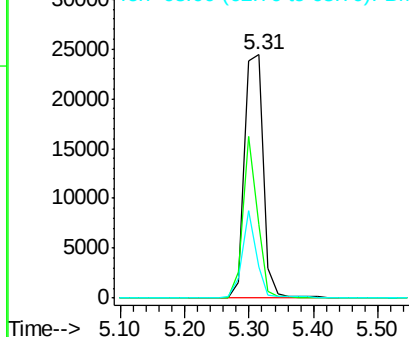


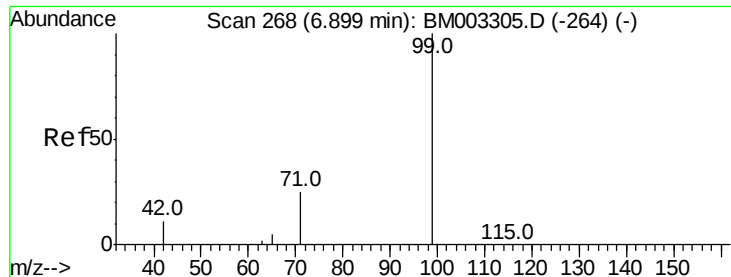
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 4.49 ng

RT: 6.88 min Scan# 267

Delta R.T. -0.02 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

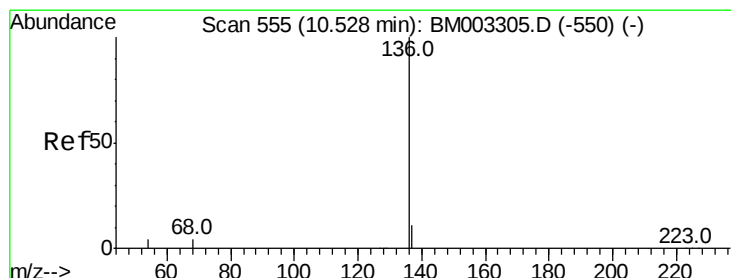
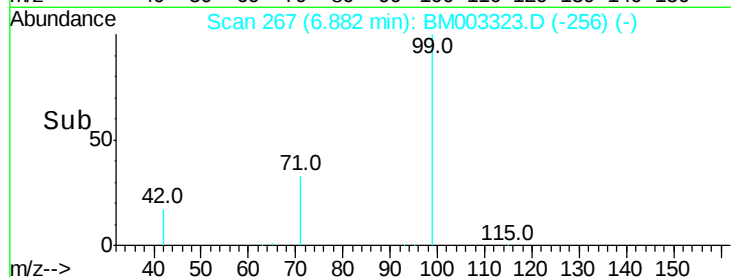
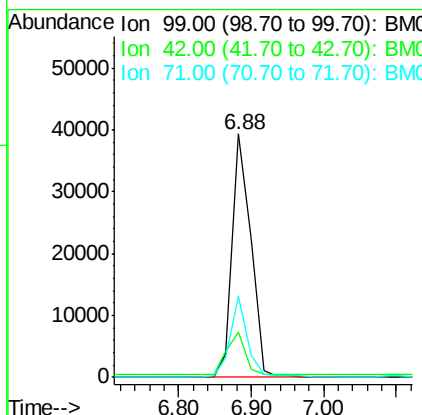
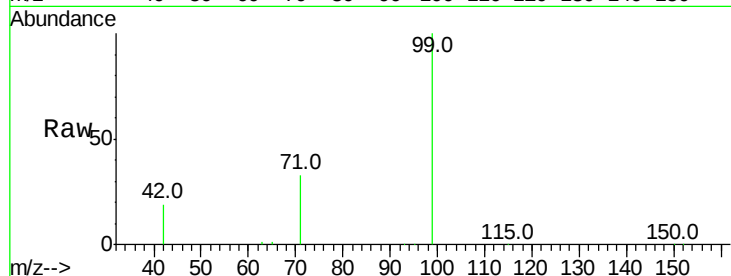
ClientSampled :

PT-PAH-SOILDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		68903		
42	17.5	14.6	22.0		
71	29.6	23.3	34.9		

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM



#7

Naphthalene-d8

Concen: 5.00 ng

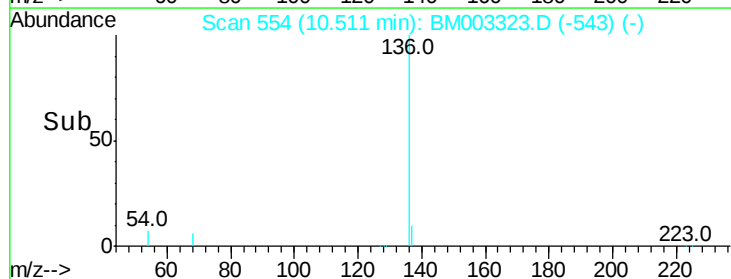
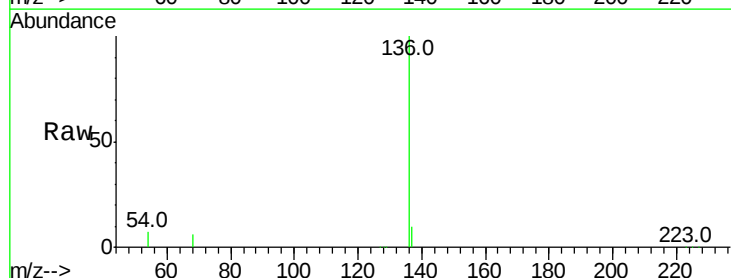
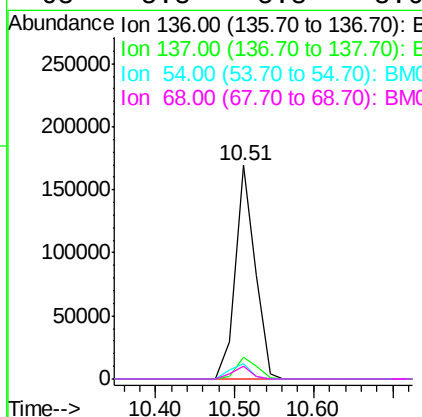
RT: 10.51 min Scan# 554

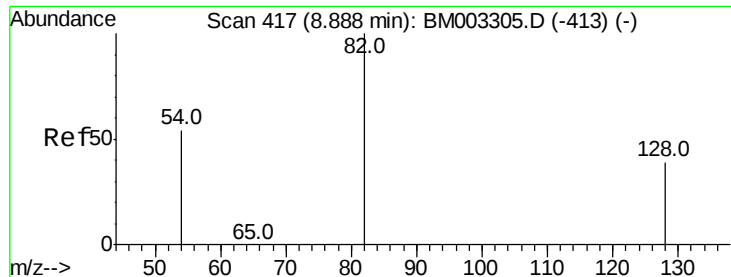
Delta R.T. -0.02 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		292918		
137	10.4	8.0	12.0		
54	7.0	7.4	11.0#		
68	5.8	5.8	8.6#		





#8

Nitrobenzene-d5

Concen: 2.22 ng

RT: 8.88 min Scan# 416

Delta R.T. -0.01 min

Lab File: BM003323.D

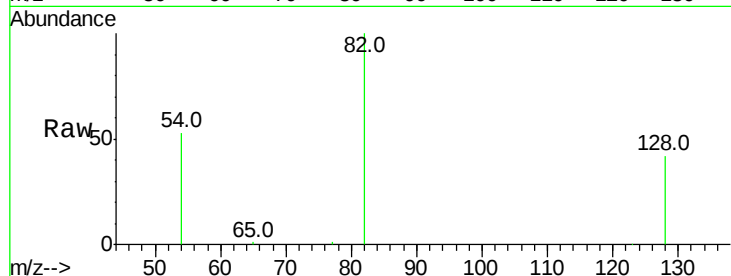
Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

ClientSampleId :

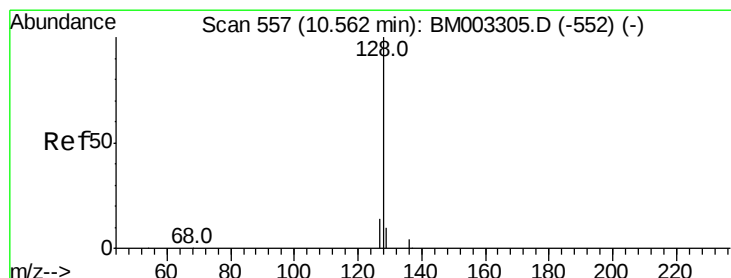
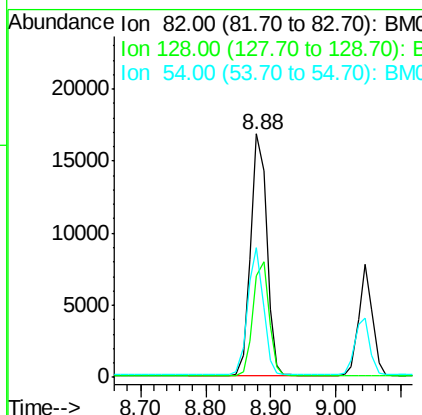
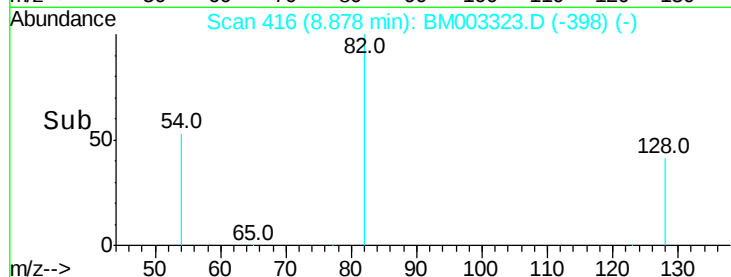
PT-PAH-SOILDL



Tot Ion:	82	Resp:	28904
Ion Ratio	Lower	Upper	
82	100		
128	41.7	35.2	52.8
54	53.1	36.4	54.6

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM



#10

Naphthalene

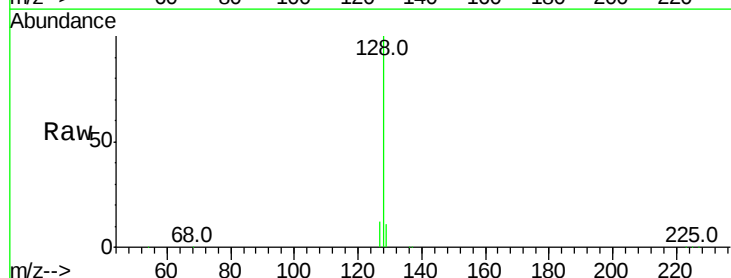
Concen: 4.77 ng

RT: 10.56 min Scan# 557

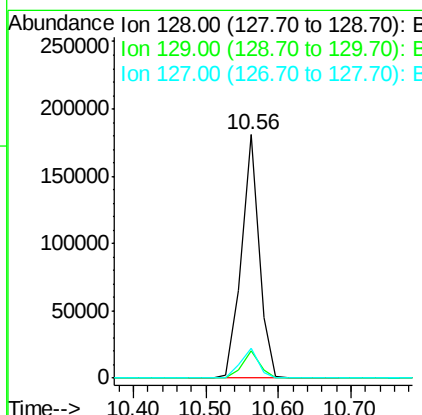
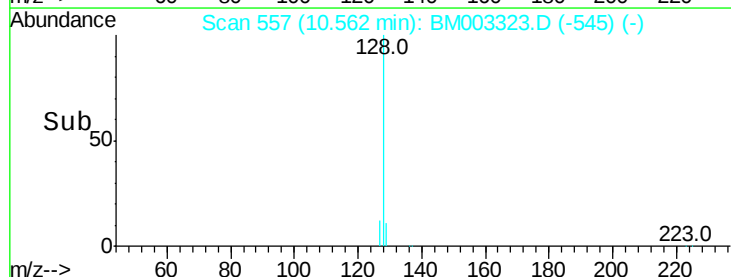
Delta R.T. 0.00 min

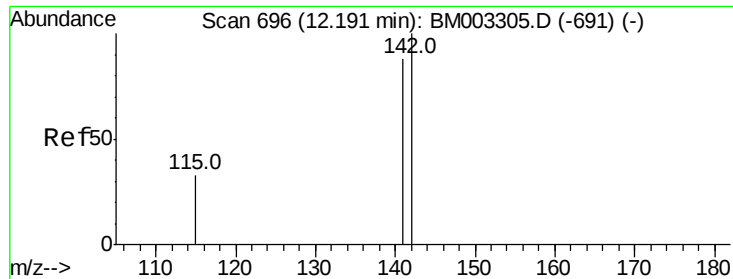
Lab File: BM003323.D

Acq: 30 Nov 2015 17:48



Tgt Ion:	128	Resp:	301763
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.5	12.7
127	12.4	10.6	16.0





#12

2-Methylnaphthalene

Concen: 3.38 ng

RT: 12.18 min Scan# 696

Delta R.T. -0.01 min

Lab File: BM003323.D

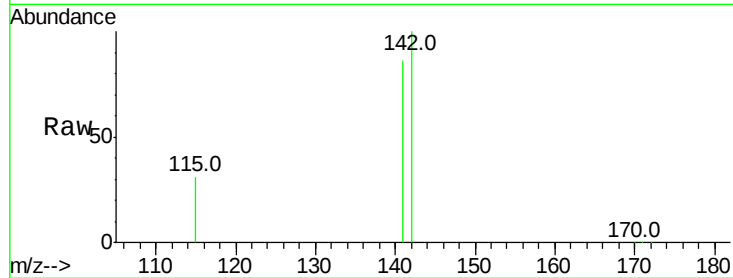
Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

ClientSampleId :

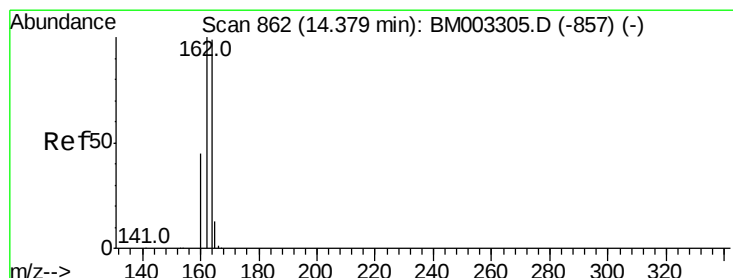
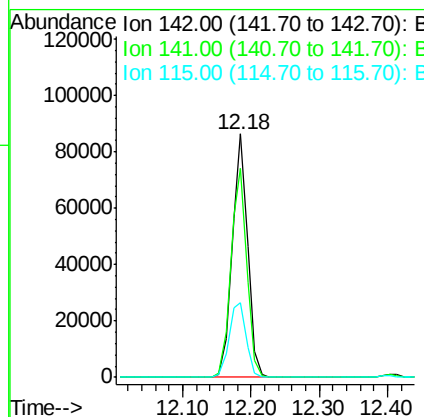
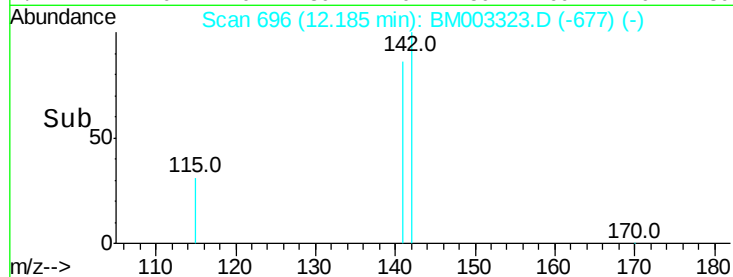
PT-PAH-SOILDL



Tot Ion:	142	Resp:	134126
Ion Ratio	Lower	Upper	
142	100		
141	86.0	72.2	108.2
115	30.8	28.0	42.0

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM



#13

Acenaphthene-d10

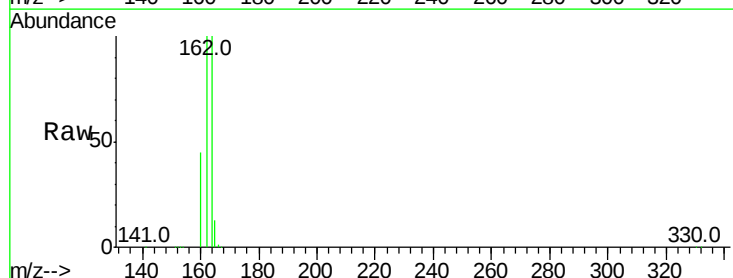
Concen: 5.00 ng

RT: 14.37 min Scan# 862

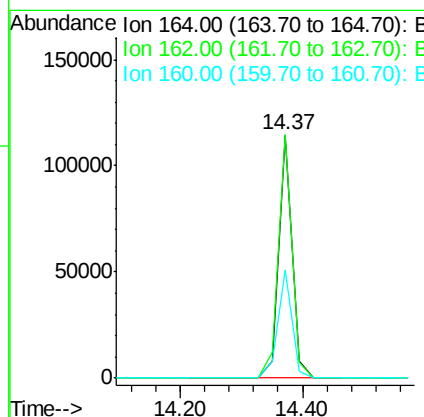
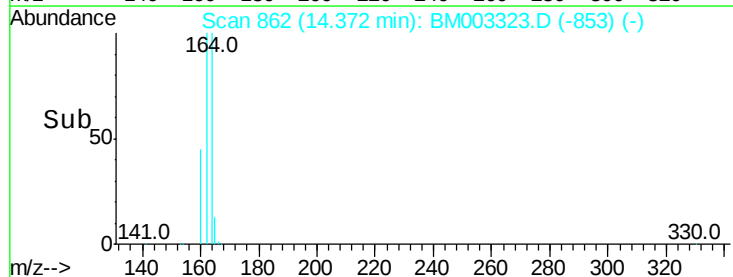
Delta R.T. -0.01 min

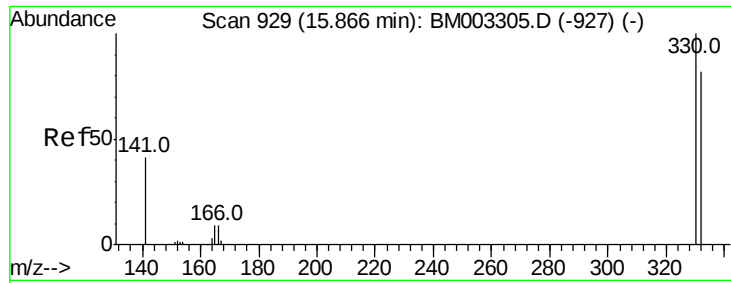
Lab File: BM003323.D

Acq: 30 Nov 2015 17:48



Tgt Ion:	164	Resp:	173471
Ion Ratio	Lower	Upper	
164	100		
162	100.3	78.3	117.5
160	44.7	33.8	50.6





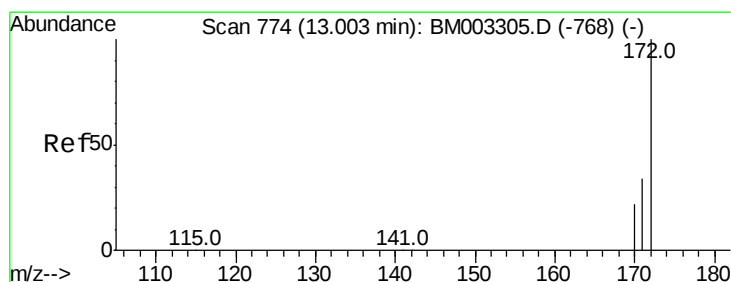
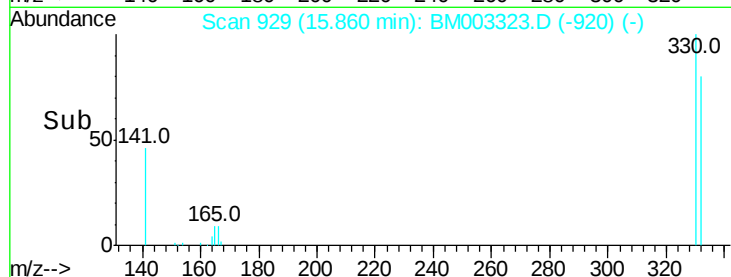
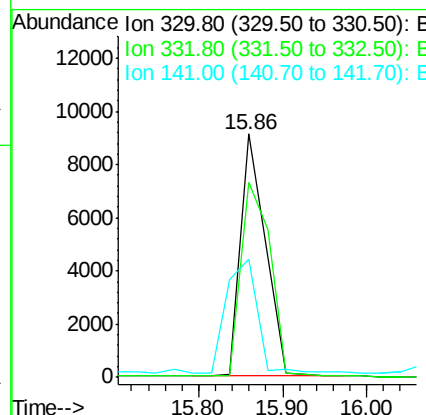
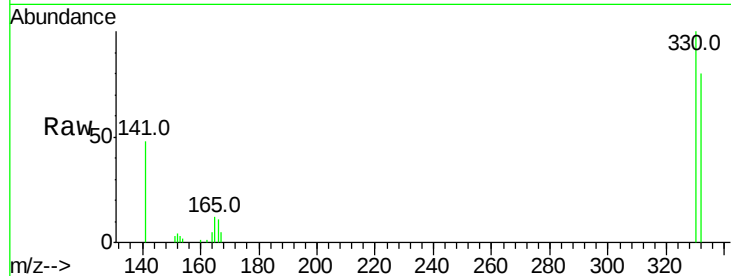
#14
 2,4,6-Tribromophenol
 Concen: 4.67 ng
 RT: 15.86 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: BM003323.D
 Acq: 30 Nov 2015 17:48

Instrument :
 BNA_M
 ClientSampleId :
 PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.1	76.0	114.0
141	60.6	0.0	0.0#

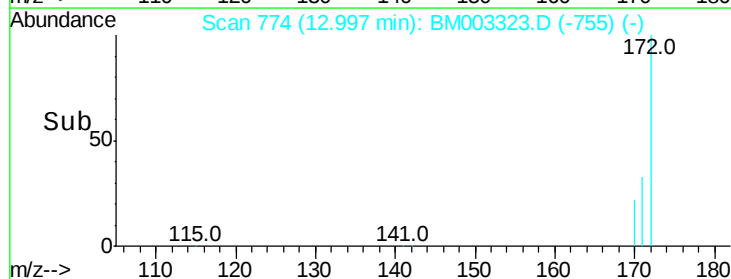
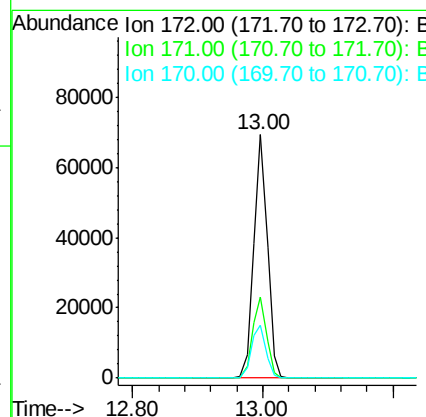
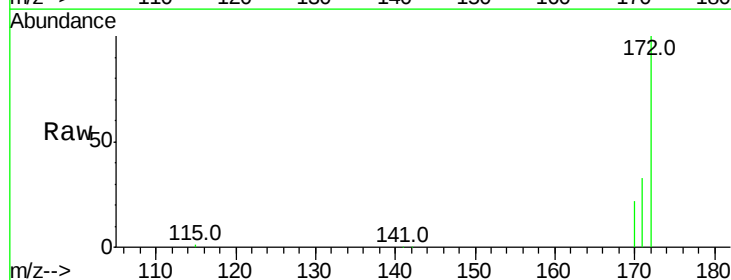
Manual Integrations
 APPROVED

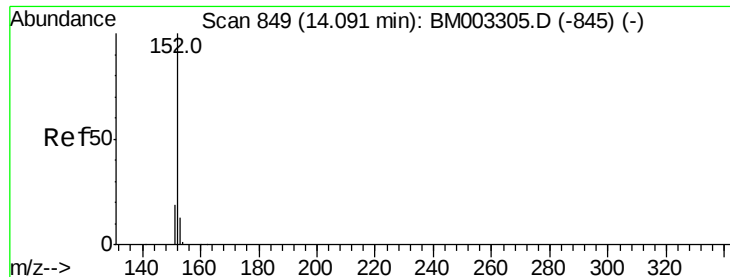
Mmdadoda
 12/1/2015 6:33:56 PM



#15
 2-Fluorobiphenyl
 Concen: 1.77 ng
 RT: 13.00 min Scan# 774
 Delta R.T. -0.01 min
 Lab File: BM003323.D
 Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.5	28.0	42.0
170	21.8	18.9	28.3





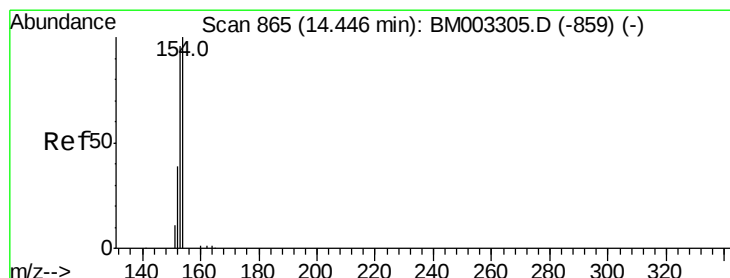
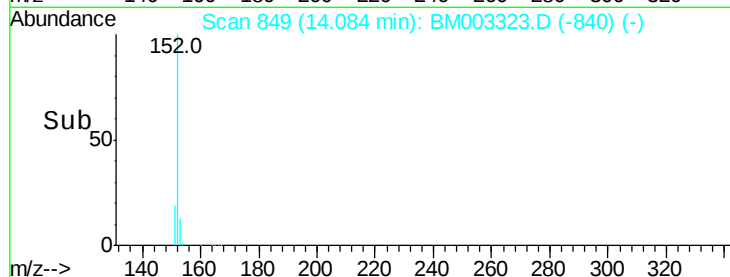
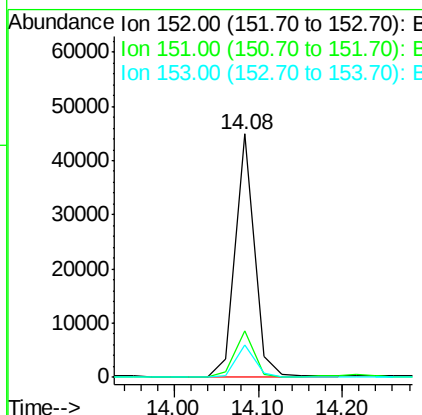
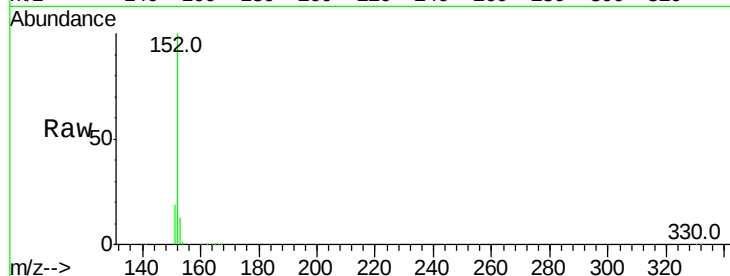
#16
Acenaphthylene
Concen: 1.10 ng
RT: 14.08 min Scan# 849
Delta R.T. -0.01 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.2	22.8
153	13.0	10.4	15.6

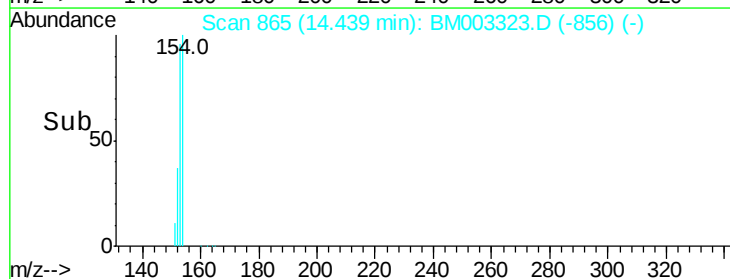
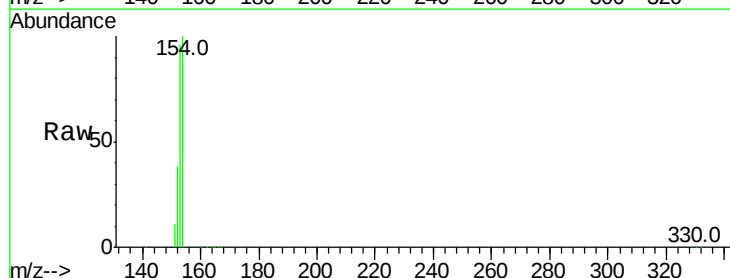
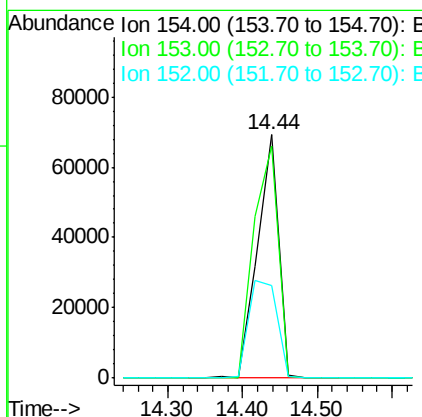
Manual Integrations
APPROVED

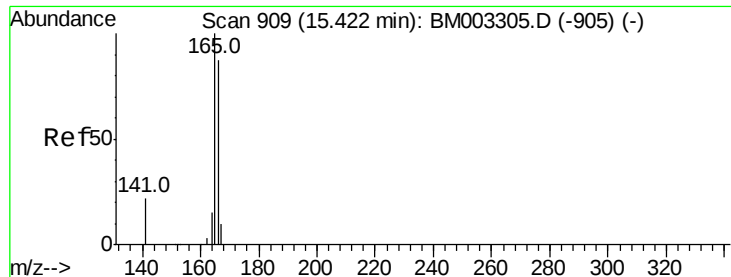
Mmdadoda
12/1/2015 6:33:56 PM



#17
Acenaphthene
Concen: 2.77 ng
RT: 14.44 min Scan# 865
Delta R.T. -0.01 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.6	0.0	0.0#
152	0.0	0.0	0.0





#18

Fluorene

Concen: 2.59 ng

RT: 15.42 min Scan# 909

Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

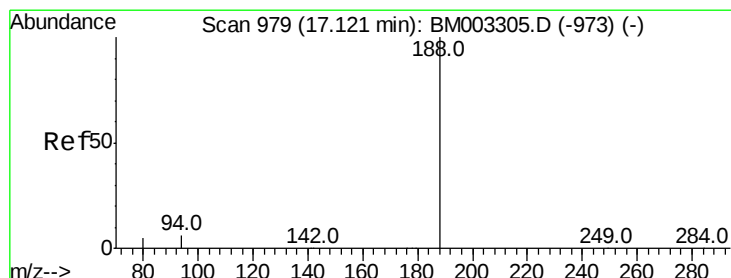
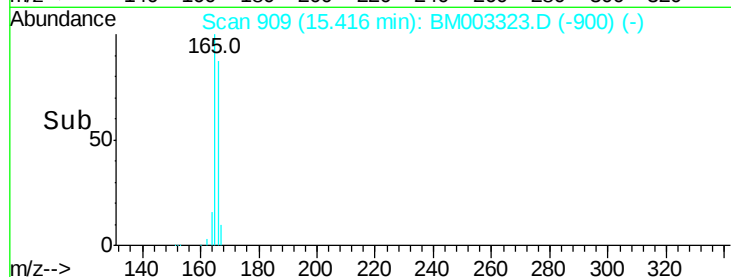
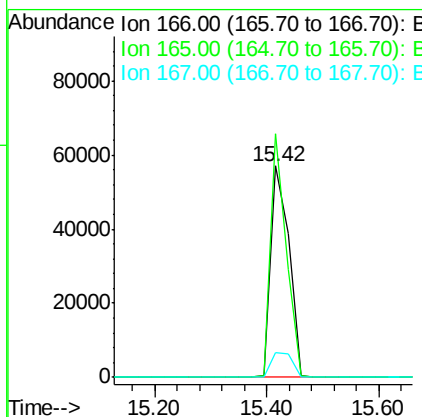
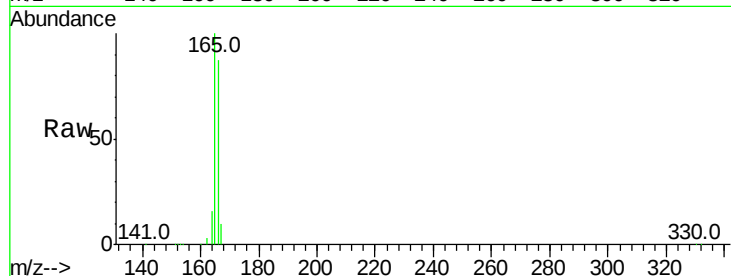
ClientSampleId :

PT-PAH-SOILD

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.3	80.8	121.2	
167	13.2	10.5	15.7	



#19

Phenanthrene-d10

Concen: 5.00 ng

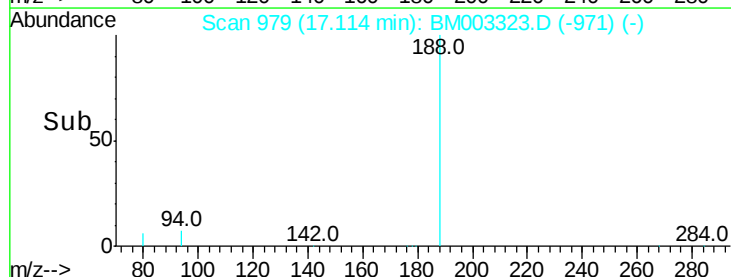
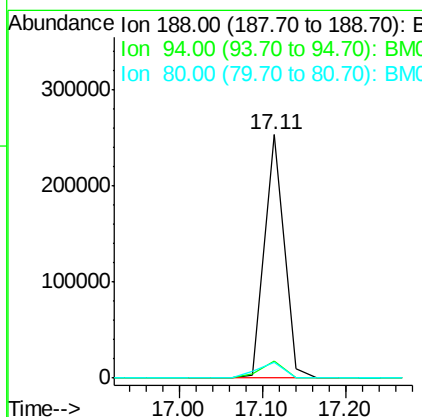
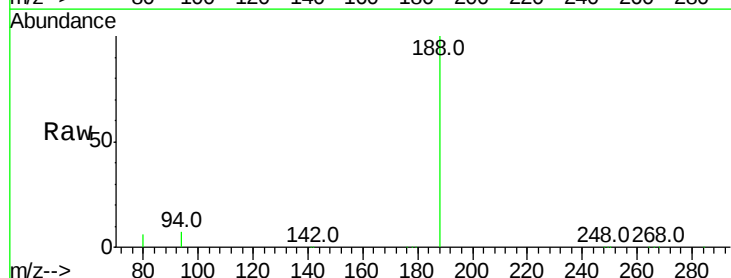
RT: 17.11 min Scan# 979

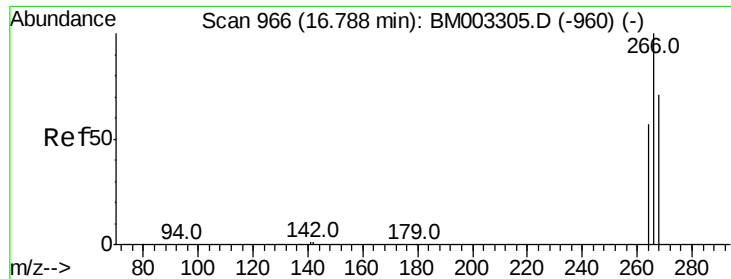
Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	7.2	1.8	2.6#	
80	6.3	1.4	2.0#	





#22

Pentachlorophenol

Concen: 0.11 ng

RT: 16.78 min Scan# 966

Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

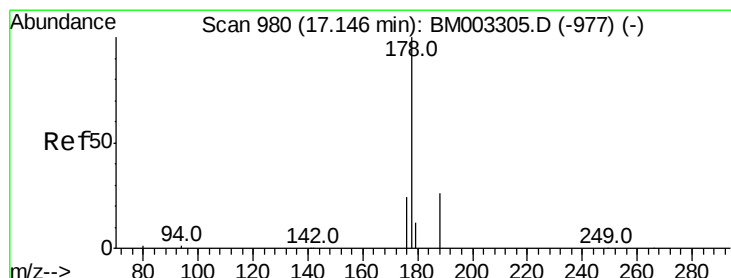
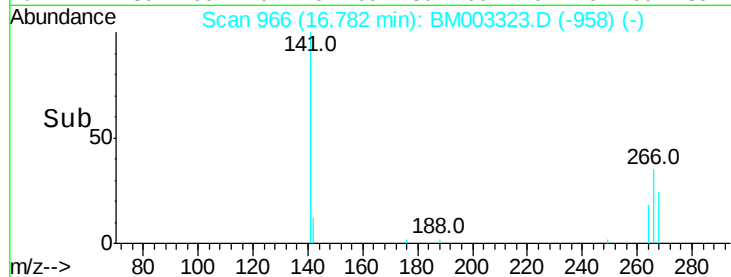
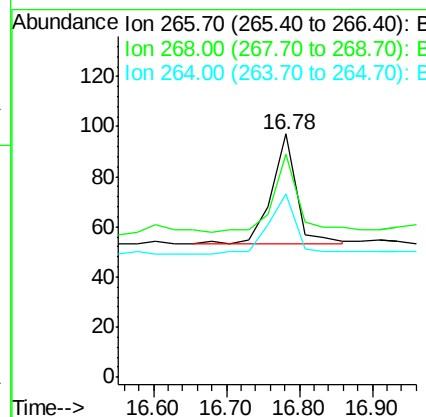
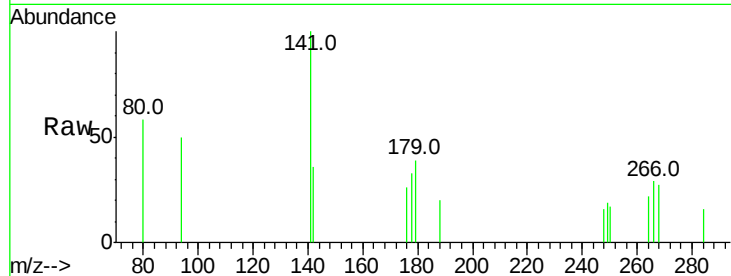
ClientSampleId :

PT-PAH-SOILD

Tot Ion:	266	Resp:	107
Ion Ratio	Lower	Upper	
266	100		
268	91.8	45.8	68.8#
264	75.3	56.7	85.1

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM



#23

Phenanthrene

Concen: 2.97 ng

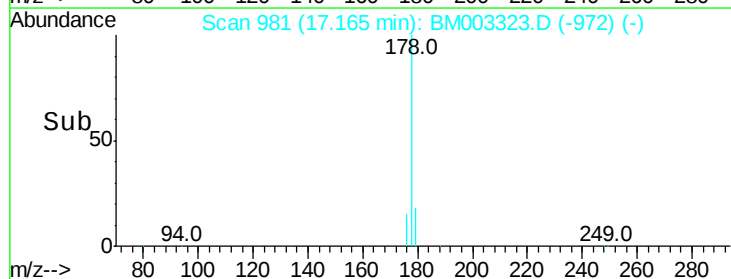
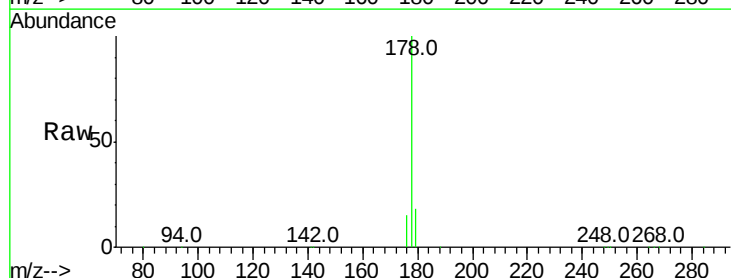
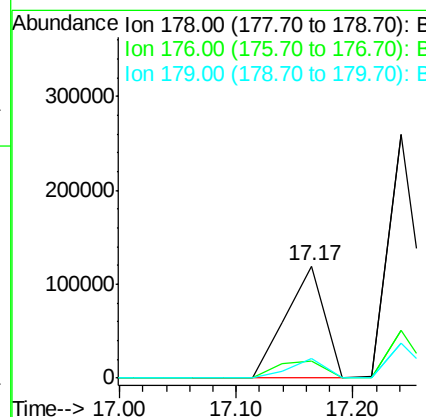
RT: 17.17 min Scan# 981

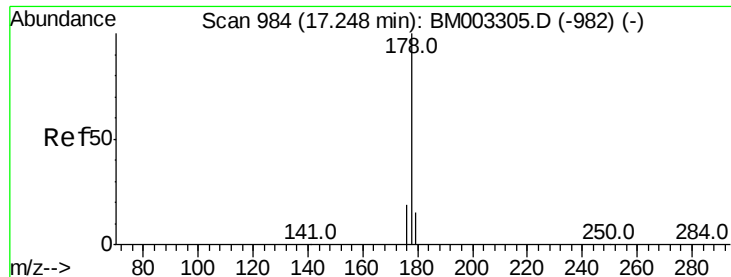
Delta R.T. 0.02 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Tgt Ion:	178	Resp:	274014
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.9	23.9
179	15.9	11.7	17.5





#24

Anthracene

Concen: 5.63 ng

RT: 17.24 min Scan# 984

Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

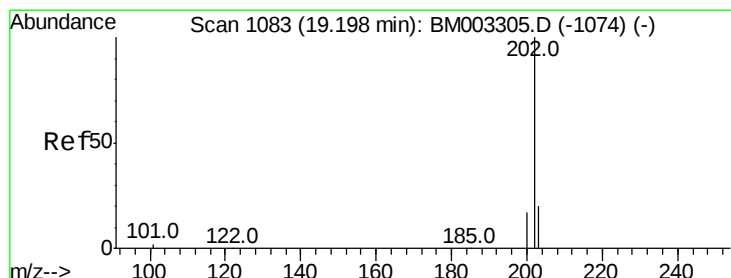
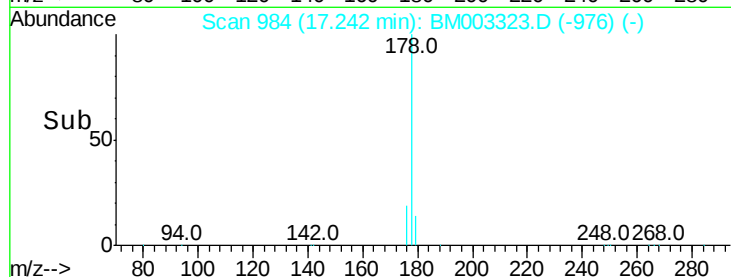
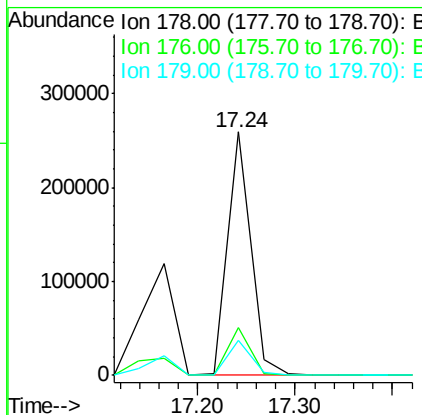
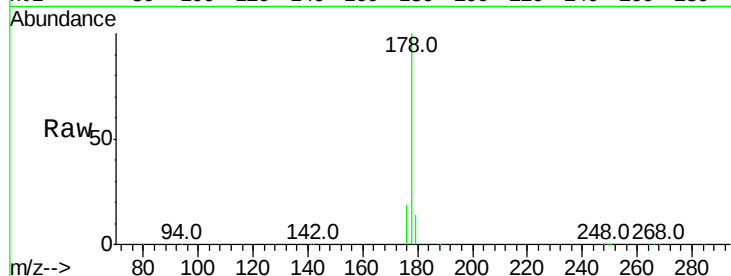
ClientSampleId :

PT-PAH-SOILDL

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM

Tot Ion:178	Resp:	428475
Ion Ratio	Lower	Upper
178 100		
176 19.1	14.1	21.1
179 14.8	12.8	19.2



#25

Fluoranthene

Concen: 2.92 ng

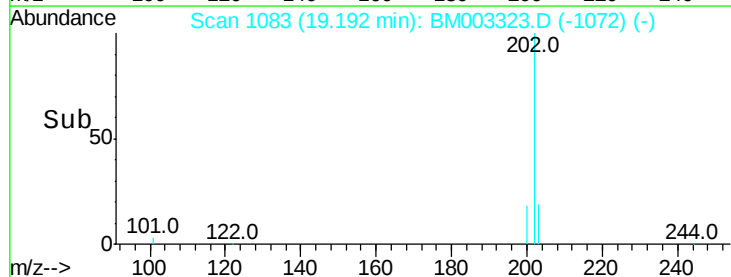
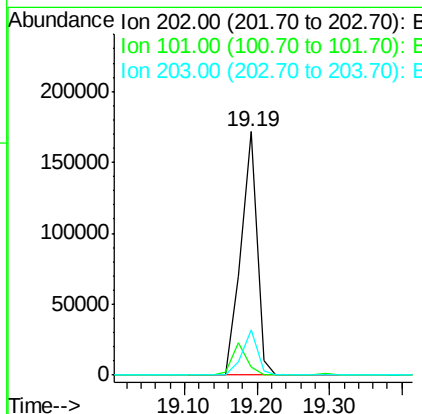
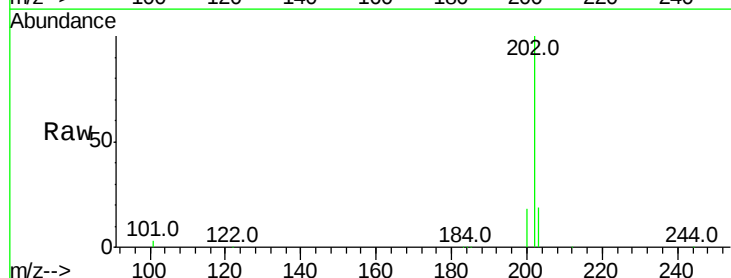
RT: 19.19 min Scan# 1083

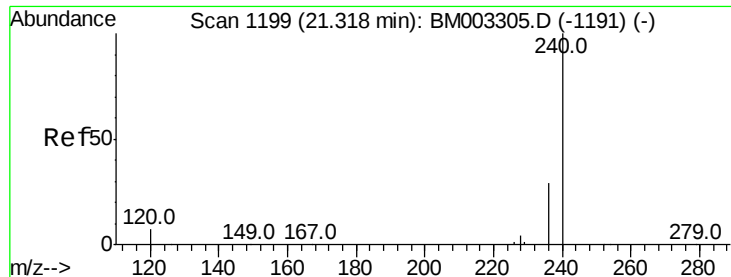
Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Tgt Ion:202	Resp:	259830
Ion Ratio	Lower	Upper
202 100		
101 12.2	9.9	14.9
203 17.4	13.9	20.9





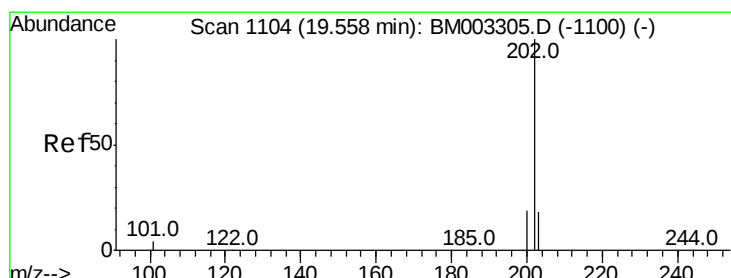
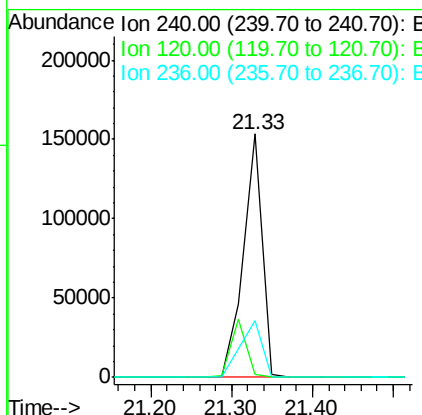
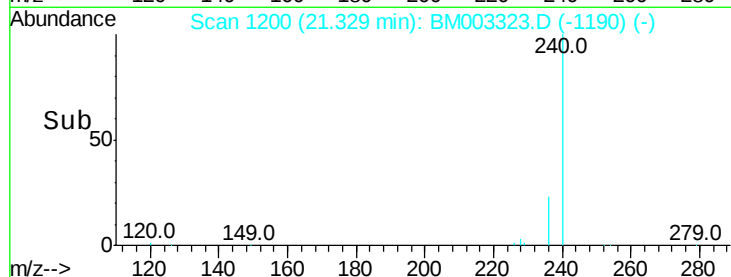
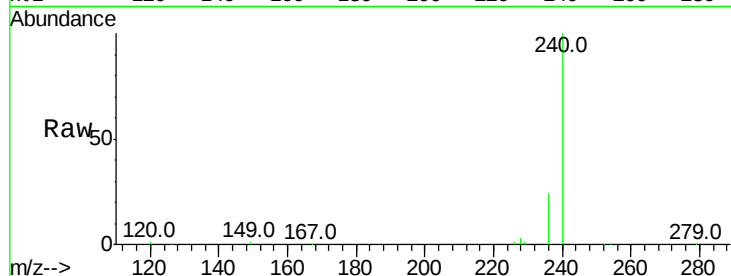
#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.33 min Scan# 1200
Delta R.T. 0.01 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	1.4	1.0	1.4	
236	23.5	17.9	26.9	

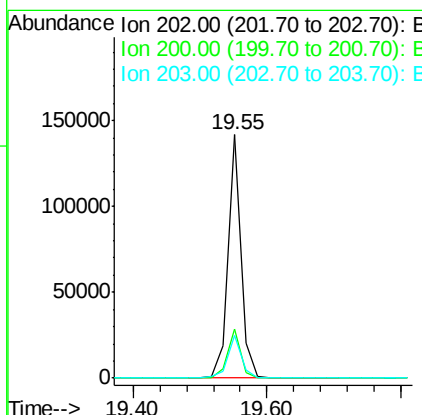
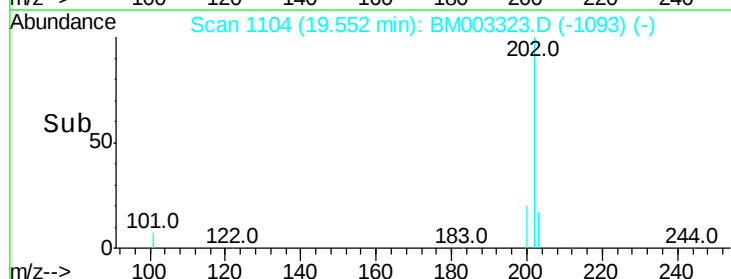
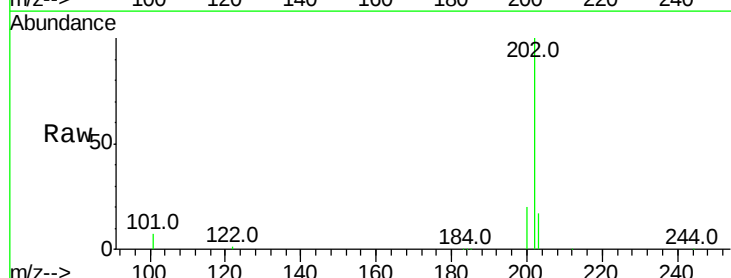
Manual Integrations
APPROVED

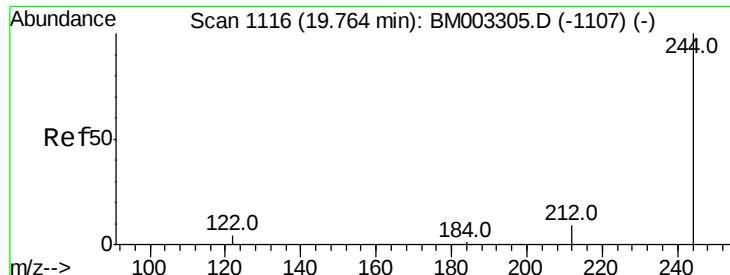
Mmdadoda
12/1/2015 6:33:56 PM



#28
Pyrene
Concen: 2.47 ng
RT: 19.55 min Scan# 1104
Delta R.T. -0.01 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	20.7	16.7	25.1	
203	19.0	13.8	20.6	





#29

Terphenyl-d14

Concen: 2.40 ng

RT: 19.76 min Scan# 1116

Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

ClientSampleId :

PT-PAH-SOILDL

Tot Ion:244 Resp: 83377

Ion Ratio Lower Upper

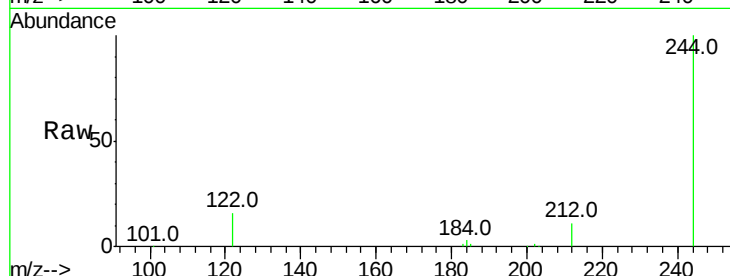
244 100

212 11.0 6.5 9.7#

122 15.6 2.0 3.0#

Manual Integrations
APPROVED

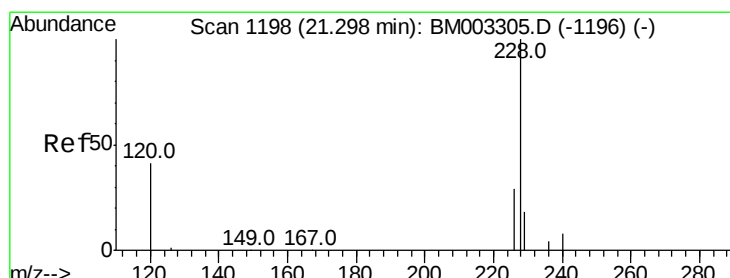
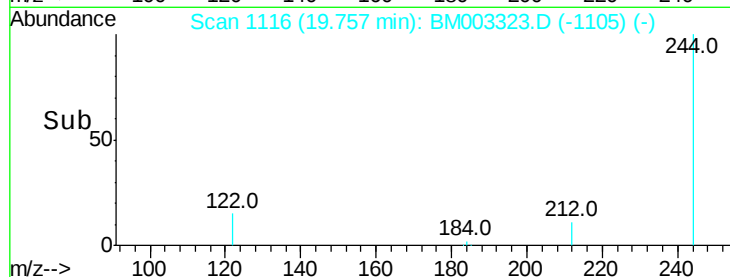
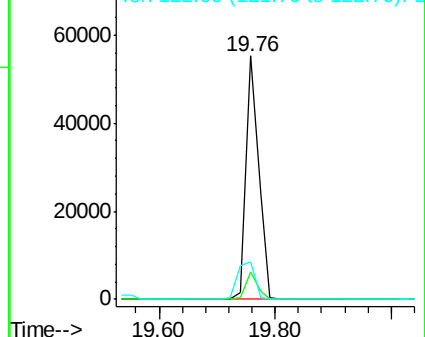
Mmdadoda
12/1/2015 6:33:56 PM



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



#30

Benzo(a)anthracene

Concen: 1.93 ng m

RT: 21.31 min Scan# 1199

Delta R.T. 0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

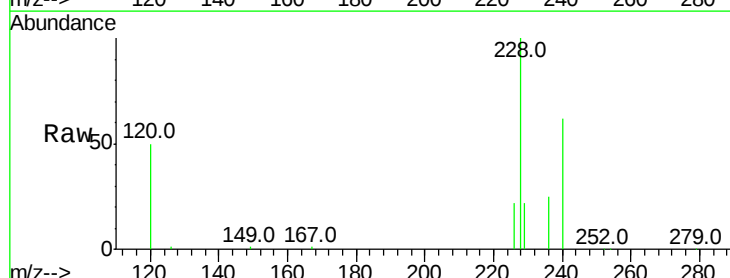
Tgt Ion:228 Resp: 121867

Ion Ratio Lower Upper

228 100

226 22.4 17.8 26.6

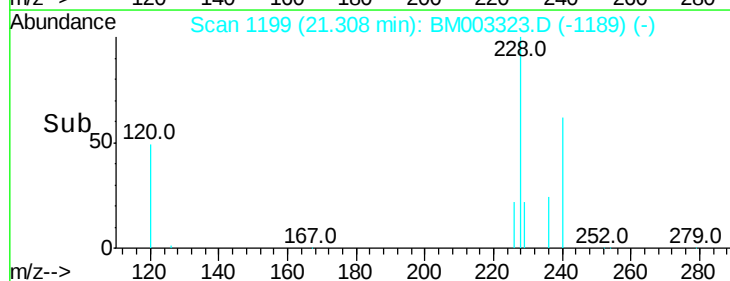
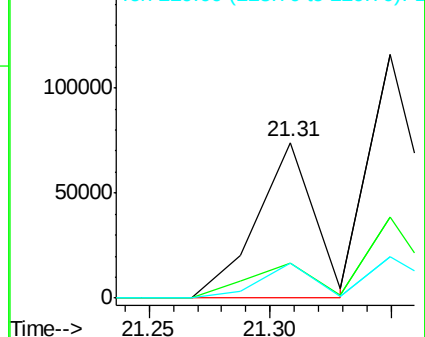
229 22.5 18.0 27.0

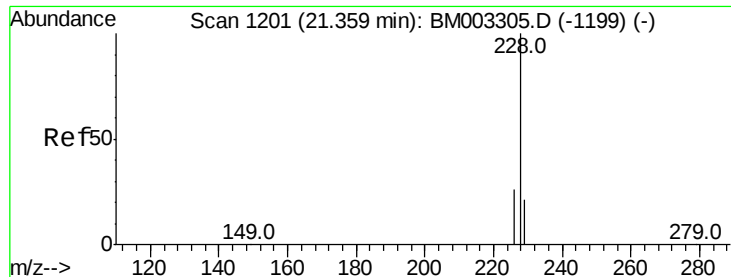


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Chrysene

Concen: 2.48 ng/mL

RT: 21.35 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

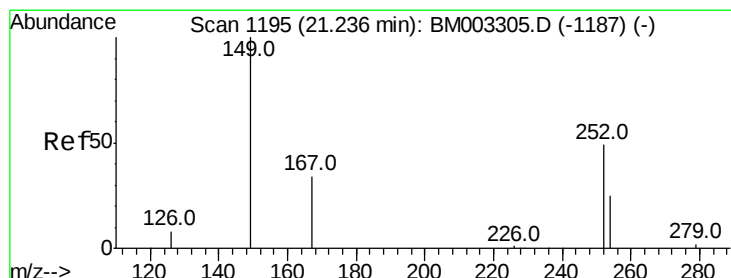
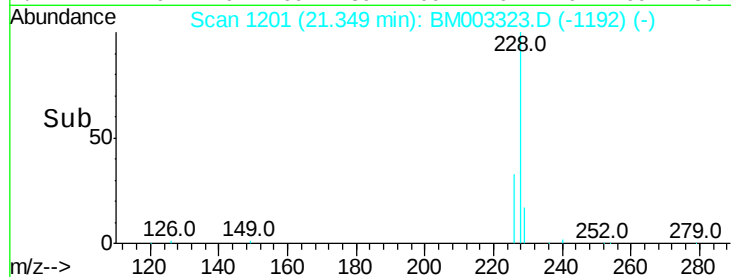
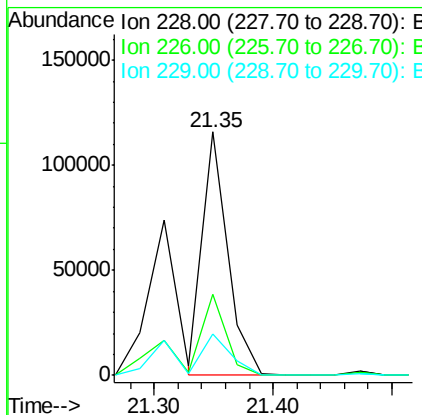
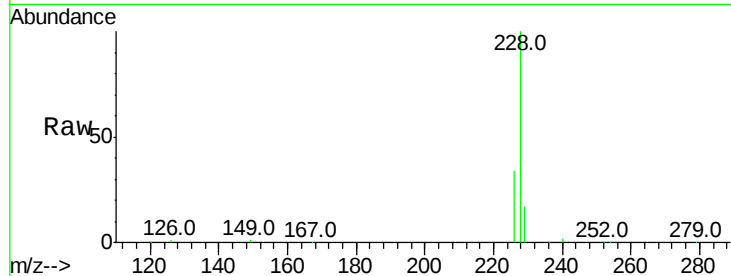
ClientSampleId :

PT-PAH-SOILDL

Tot Ion:	228	Resp:	174449
Ion Ratio	Lower	Upper	
228	100		
226	33.5	25.5	38.3
229	17.1	14.3	21.5

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.66 ng/mL

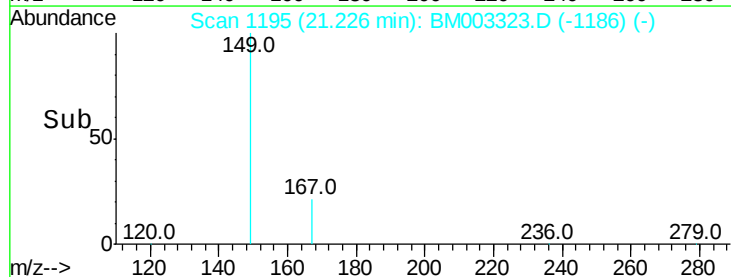
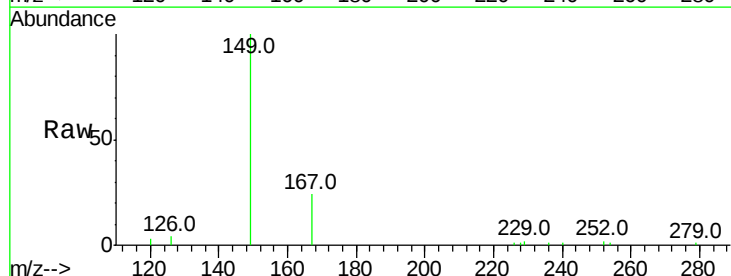
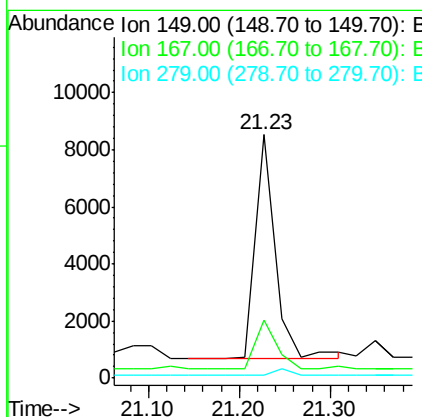
RT: 21.23 min Scan# 1195

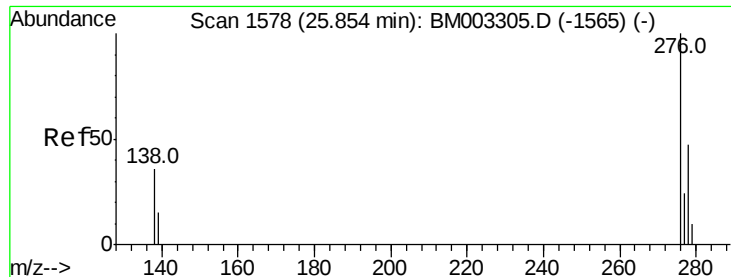
Delta R.T. -0.01 min

Lab File: BM003323.D

Acq: 30 Nov 2015 17:48

Tgt Ion:	149	Resp:	12263
Ion Ratio	Lower	Upper	
149	100		
167	22.6	19.6	29.4
279	0.0	0.0	0.0





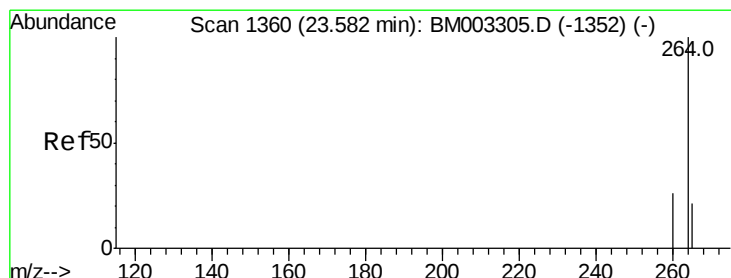
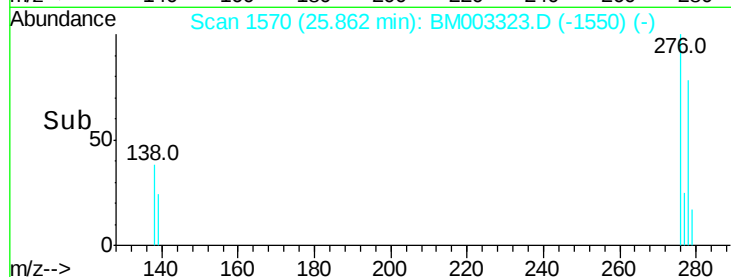
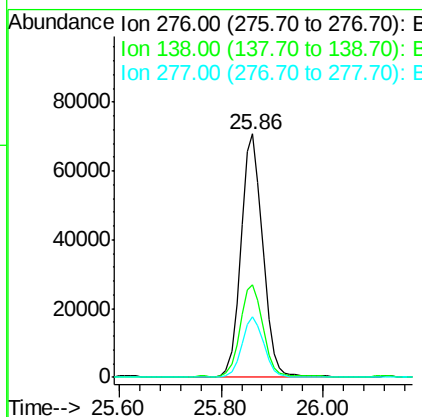
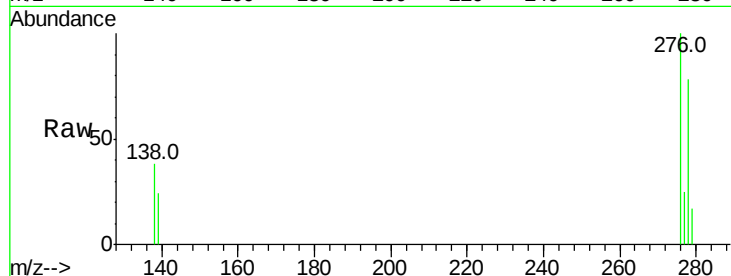
#34
 Indeno(1,2,3-cd)pyrene
 Concen: 3.62 ng
 RT: 25.86 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BM003323.D
 Acq: 30 Nov 2015 17:48

Instrument :
 BNA_M
 ClientSampleId :
 PT-PAH-SOILDL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	38.7	19.1	28.7#
277	24.5	15.9	23.9#

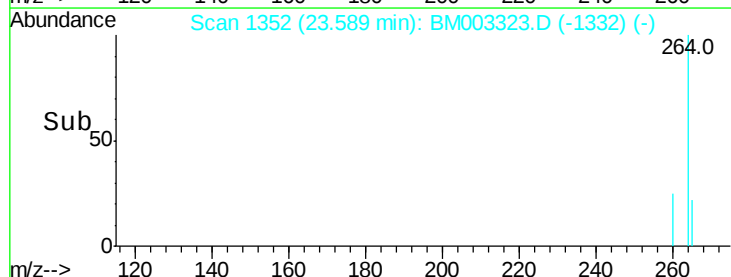
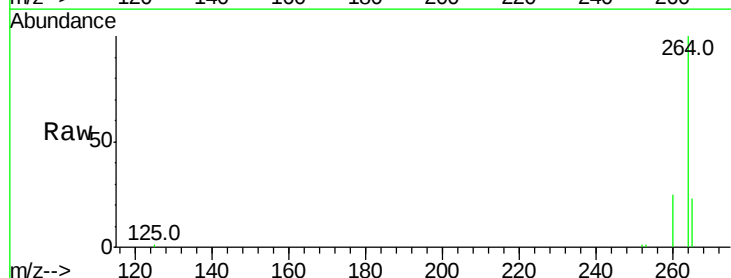
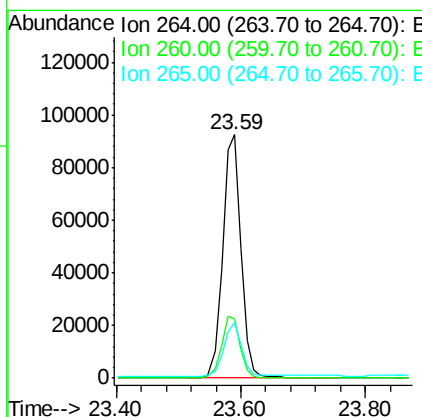
Manual Integrations
 APPROVED

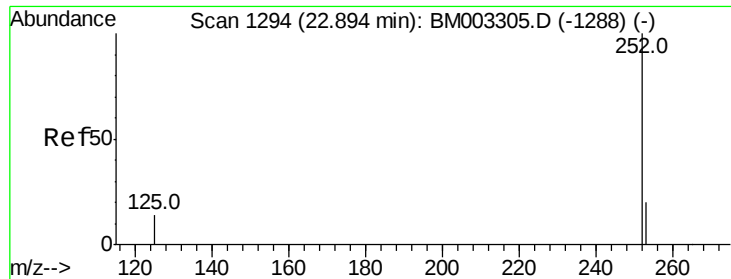
Mmdadoda
 12/1/2015 6:33:56 PM



#35
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.59 min Scan# 1352
 Delta R.T. 0.01 min
 Lab File: BM003323.D
 Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	24.6	19.6	29.4
265	22.6	18.4	27.6





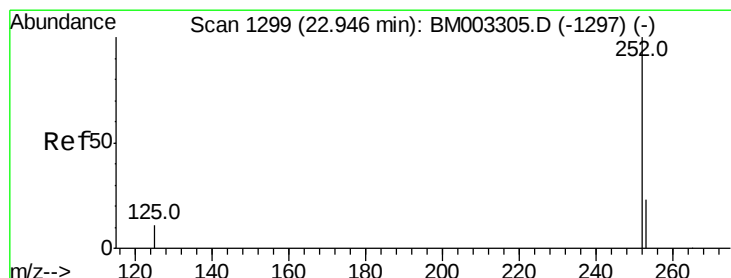
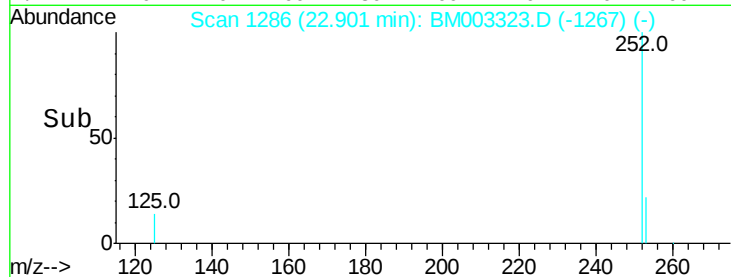
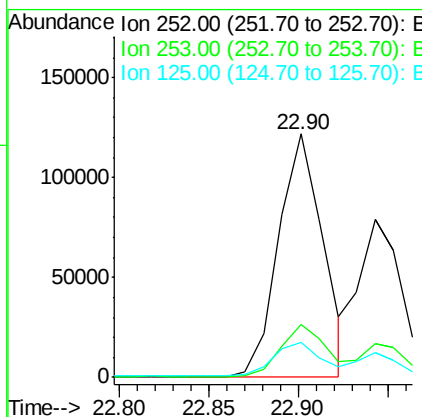
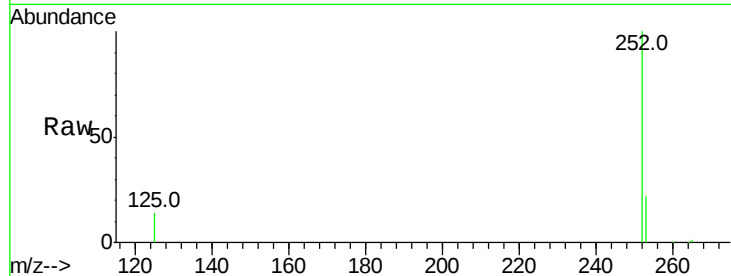
#36
Benzo(b)fluoranthene
Concen: 3.86 ng
RT: 22.90 min Scan# 1286
Delta R.T. 0.01 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.2	27.4
125	14.3	10.3	15.5

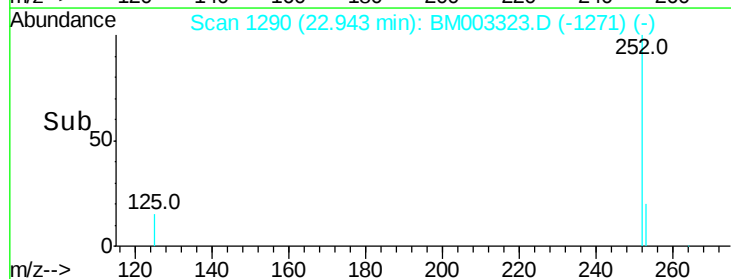
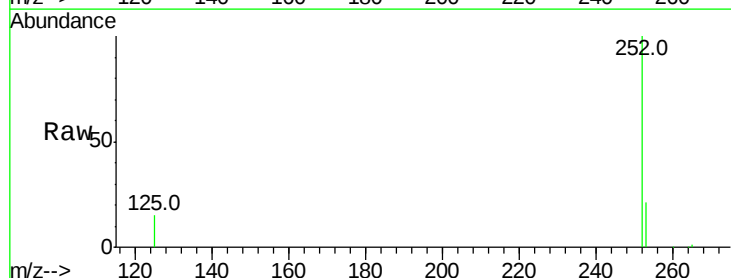
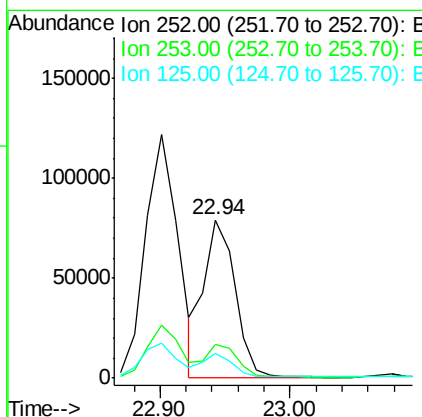
Manual Integrations
APPROVED

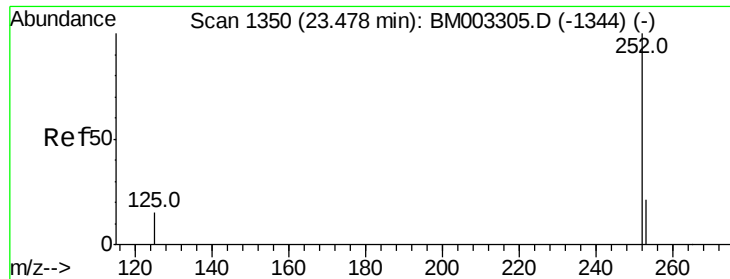
Mmdadoda
12/1/2015 6:33:56 PM



#37
Benzo(k)fluoranthene
Concen: 2.68 ng
RT: 22.94 min Scan# 1290
Delta R.T. -0.00 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.5	26.3
125	15.3	10.7	16.1





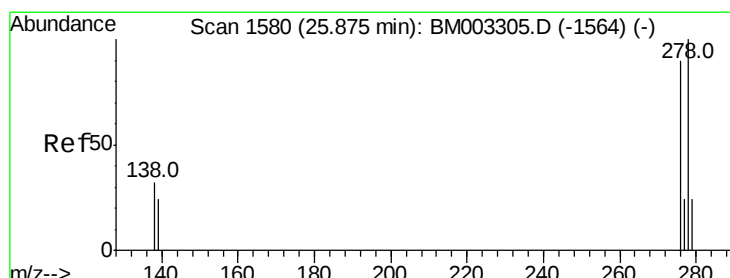
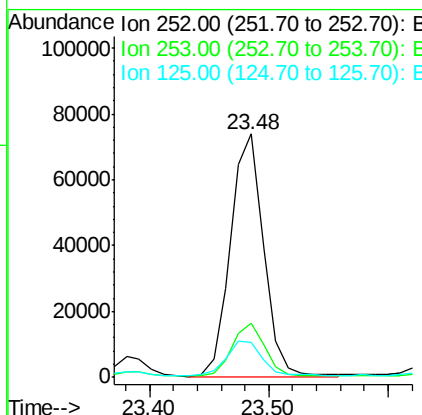
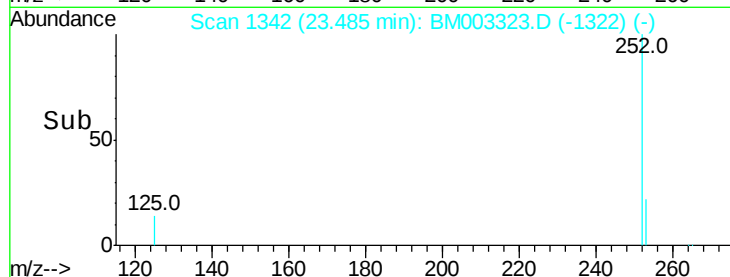
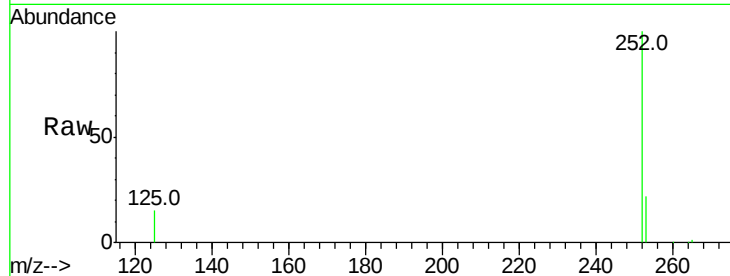
#38
Benzo(a)pyrene
Concen: 3.24 ng
RT: 23.48 min Scan# 1342
Delta R.T. 0.01 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Instrument :
BNA_M
ClientSampleID :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.7	28.1
125	14.6	11.6	17.4

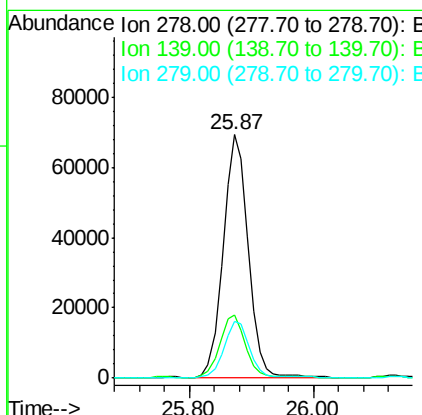
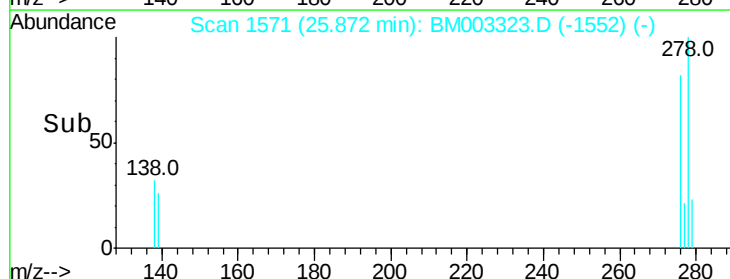
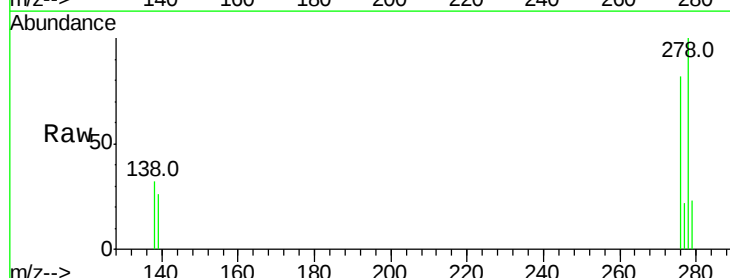
Manual Integrations
APPROVED

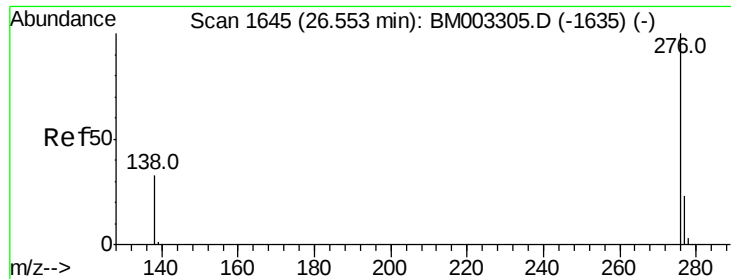
Mmdadoda
12/1/2015 6:33:56 PM



#39
Dibenzo(a,h)anthracene
Concen: 5.16 ng
RT: 25.87 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BM003323.D
Acq: 30 Nov 2015 17:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.8	18.2	27.4
279	23.4	18.8	28.2





#40

Benzo(a,h,i)perylene

Concen: 1.72 ng

RT: 26.56 min Scan# 1637

Delta R.T. 0.01 min

Lab File: BM003323.D

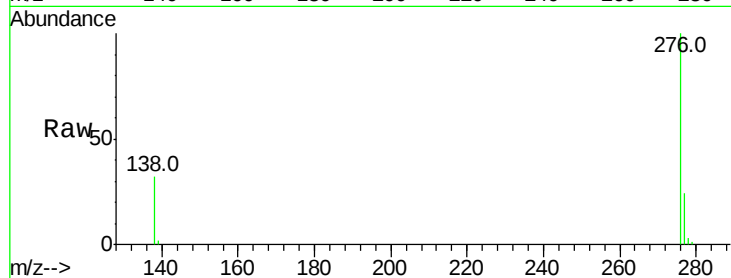
Acq: 30 Nov 2015 17:48

Instrument :

BNA_M

ClientSampleId :

PT-PAH-SOILDL



Tot Ion: 276 Resp: 77360

Ion Ratio Lower Upper

276 100

277 23.7 19.0 28.6

138 31.6 22.3 33.5

Manual Integrations
APPROVED

Mmdadoda
12/1/2015 6:33:56 PM

