

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\
 Data File : BF100499.D
 Acq On : 13 Nov 2017 13:41
 Operator : SJ/JU
 Sample : I6396-05 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL

Manual Integrations
 APPROVED

SOHIL
 11/14/2017 5:20:14 PM

Quant Time: Nov 13 15:40:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 13 14:08:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	83283	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	323027	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	146071	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	240996	20.00	ng	0.00
75) Chrysene-d12	14.05	240	174386	20.00	ng	0.00
86) Perylene-d12	15.53	264	180296	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	33780	6.50	ng	0.00
7) Phenol-d6	6.50	99	41355	6.45	ng	-0.01
23) Nitrobenzene-d5	7.45	82	23372	4.78	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	9694	6.51	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	50201	5.23	ng	-0.01
78) Terphenyl-d14	12.99	244	33343	4.39	ng	0.00
Target Compounds						
31) Naphthalene	8.19	128	42560	2.735	ng	98
57) Fluorene	10.47	166	21029	2.217	ng	98
70) Phenanthrene	11.44	178	340733	26.853	ng	98
71) Anthracene	11.49	178	75669	5.878	ng	99
72) Carbazole	11.64	167	38563	3.246	ng	95
74) Fluoranthene	12.63	202	524625	39.012	ng	95
77) Pyrene	12.86	202	447744	36.019	ng	100
80) Benzo(a)anthracene	14.04	228	257477	24.518	ng	99
82) Chrysene	14.07	228	233324	22.944	ng	97
85) Indeno(1,2,3-cd)pyrene	17.01	276	87620	10.652	ng	# 89
87) Benzo(b)fluoranthene	15.10	252	288482m	27.007	ng	
88) Benzo(k)fluoranthene	15.12	252	71213m	7.056	ng	
89) Benzo(a)pyrene	15.46	252	171048	18.063	ng	96
90) Dibenzo(a,h)anthracene	17.02	278	27017	3.489	ng	93
91) Benzo(a,h,i)perylene	17.46	276	71215	9.394	ng	# 88

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

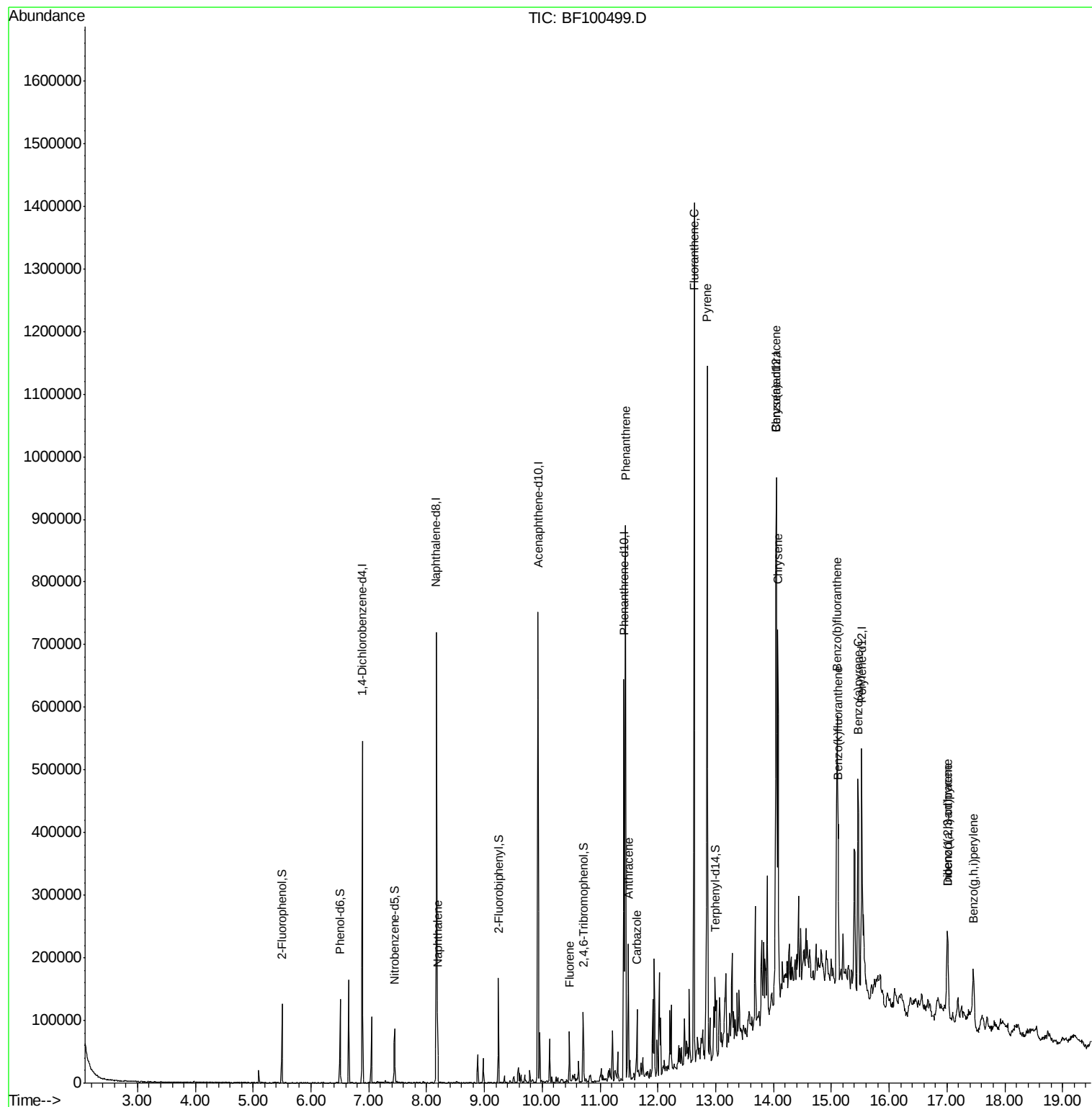
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100499.D
Acq On : 13 Nov 2017 13:41
Operator : SJ/JU
Sample : I6396-05 20X
Misc :
ALS Vial : 4 Sample Multiplier: 1

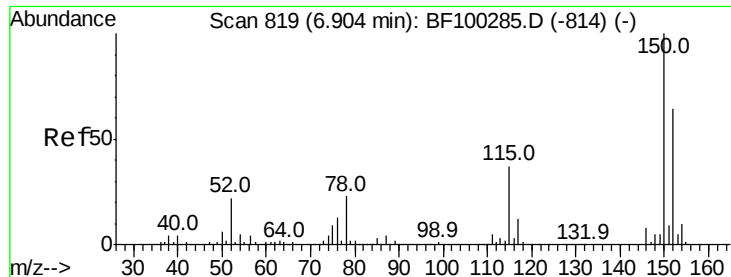
Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM

Quant Time: Nov 13 15:40:40 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 13 14:08:38 2017
Response via : Initial Calibration





#1

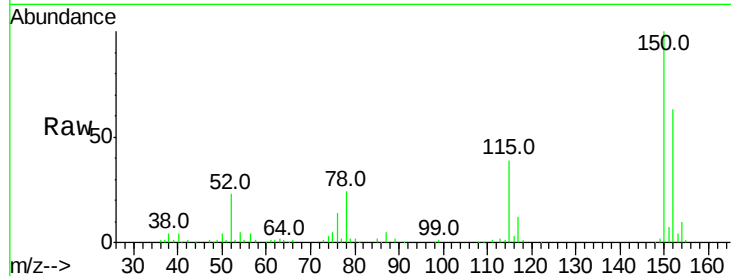
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	124.6	186.8
115	61.9	50.1	75.1

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM

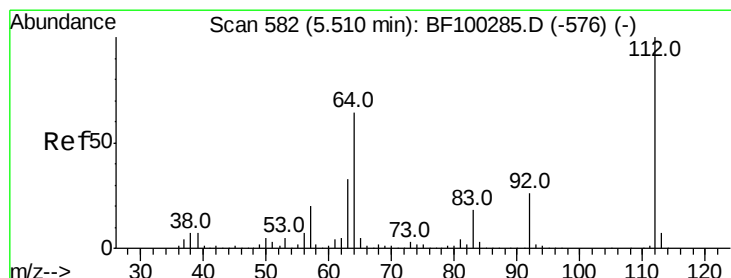
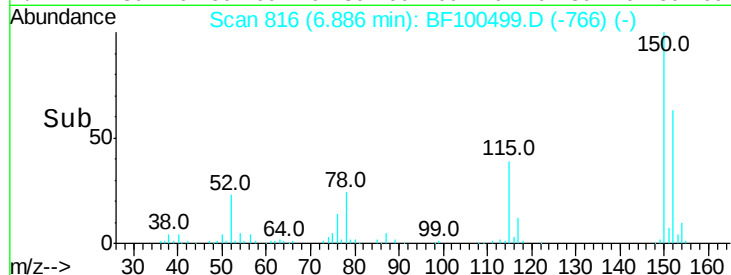
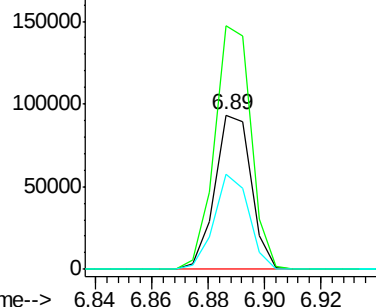


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

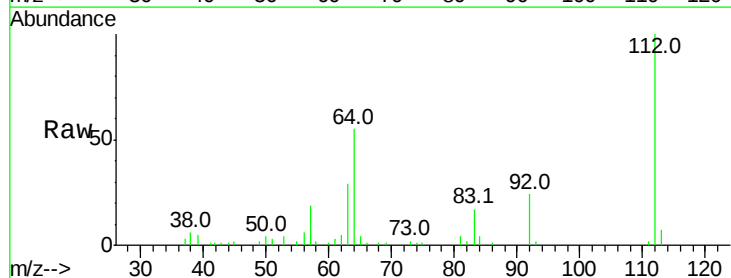
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 6.502 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	47.9	71.9
63	28.6	23.7	35.5

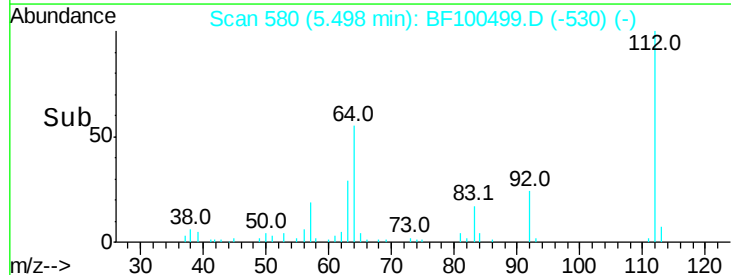
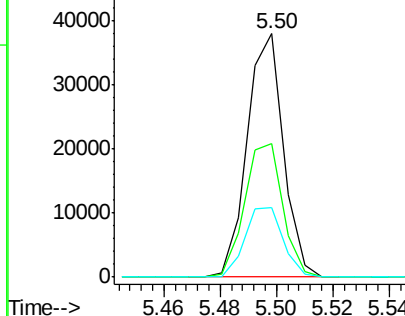


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 6.455 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

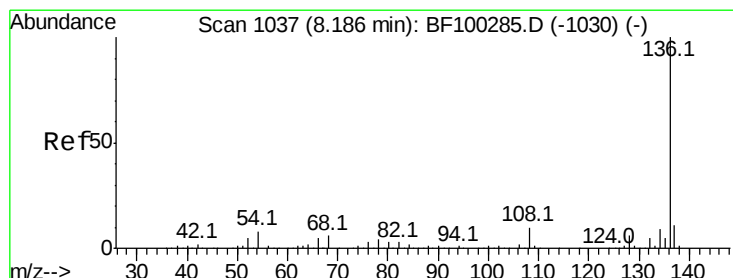
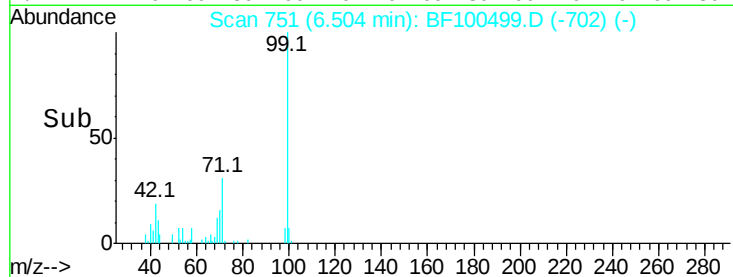
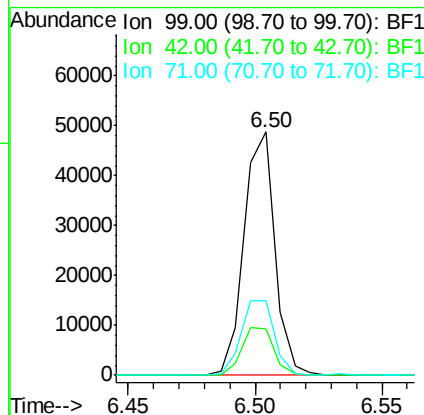
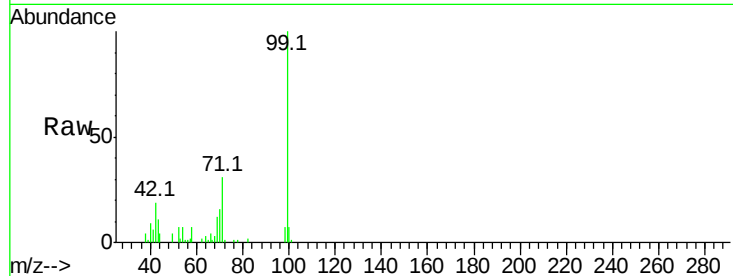
ClientSampleId :

LS-SOIL

Tot Ion:	99	Resp:	41355
Ion Ratio	Lower	Upper	
99	100		
42	19.1	14.5	21.7
71	30.8	25.4	38.0

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM



#21

Naphthalene-d8

Concen: 20.000 ng

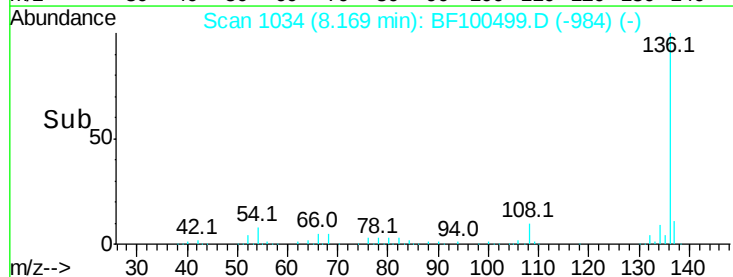
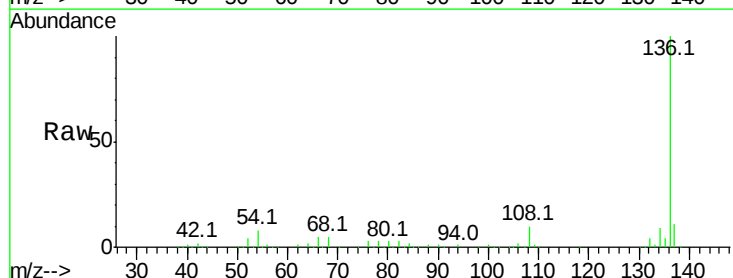
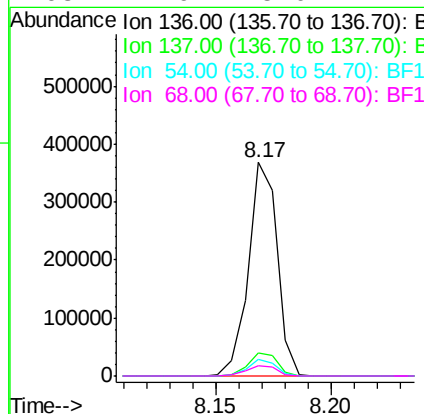
RT: 8.17 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Tgt Ion:	136	Resp:	323027
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	7.9	6.6	9.8
68	4.9	5.0	7.4#





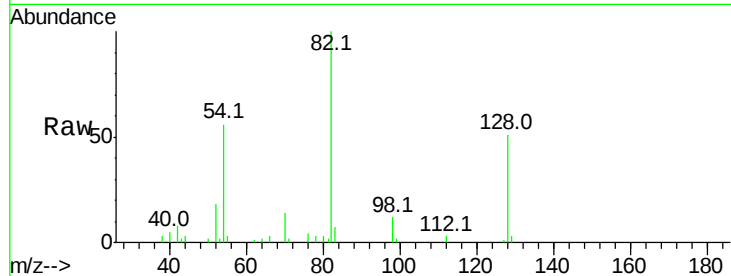
#23
Nitrobenzene-d5
Concen: 4.784 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampled :
LS-SOIL

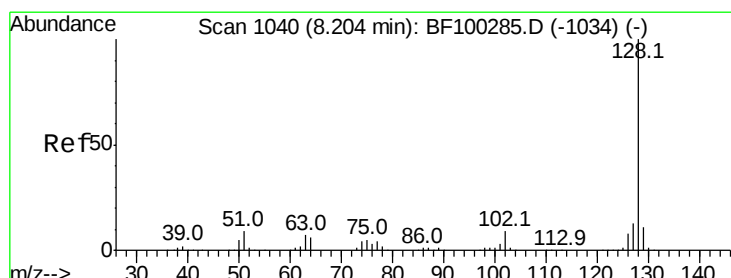
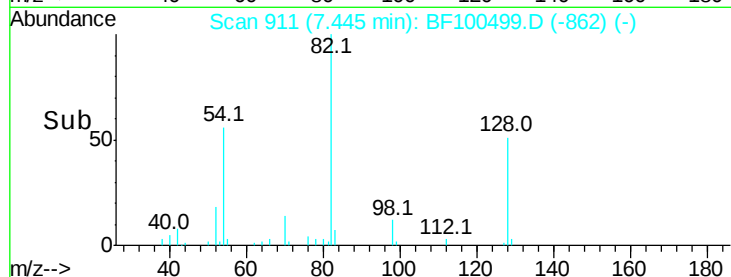
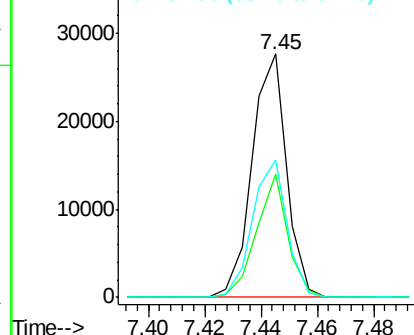
Tot Ion	82	Resp	23372
Ion Ratio	100	Lower	Upper
128	50.7	36.1	54.1
54	56.3	41.4	62.2

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM

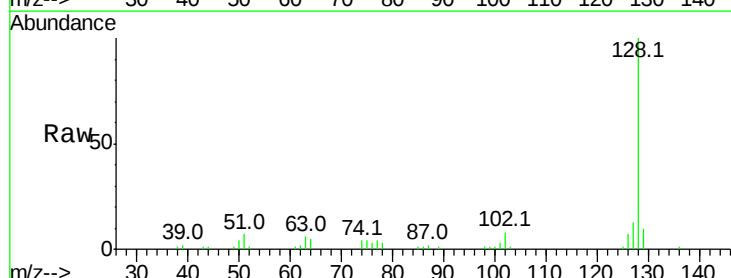


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

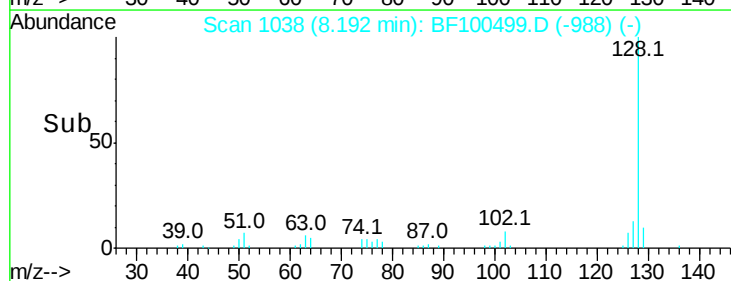
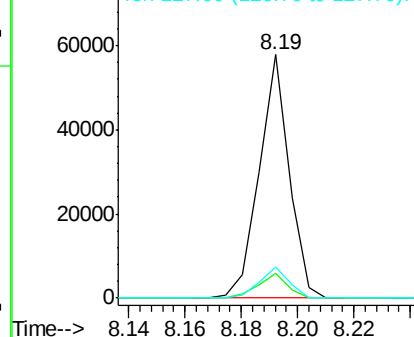


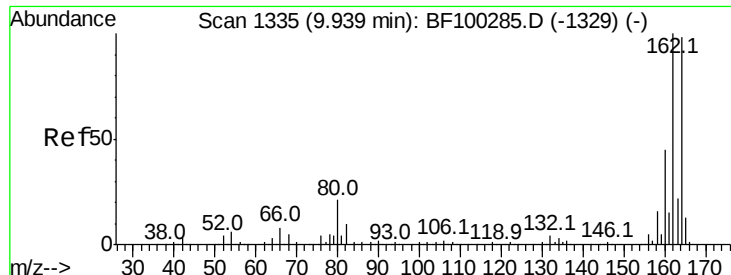
#31
Naphthalene
Concen: 2.735 ng
RT: 8.19 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	128	Resp	42560
Ion Ratio	100	Lower	Upper
129	10.1	8.8	13.2
127	12.7	10.9	16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





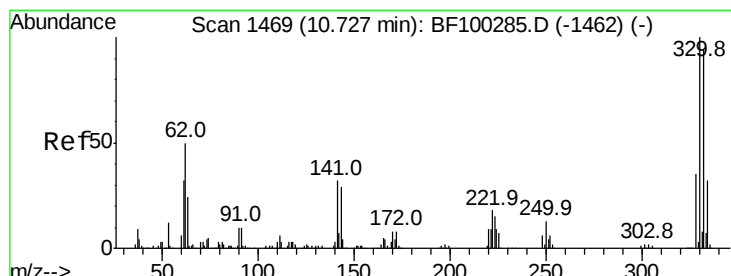
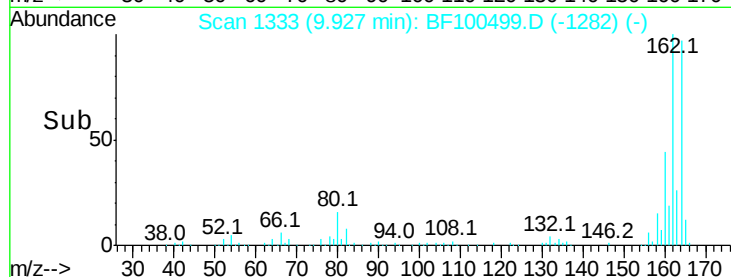
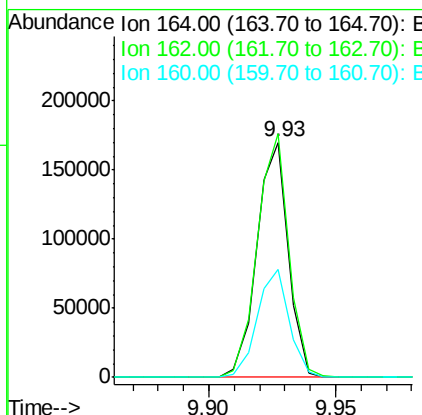
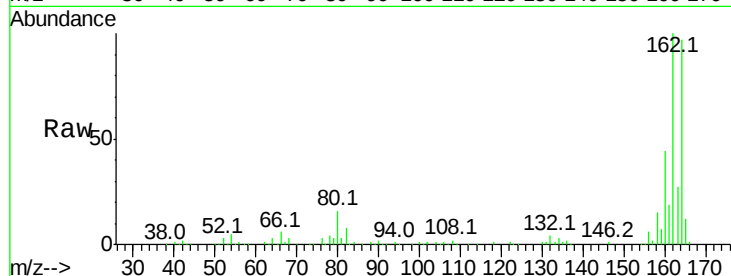
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	45.9	38.3	57.5

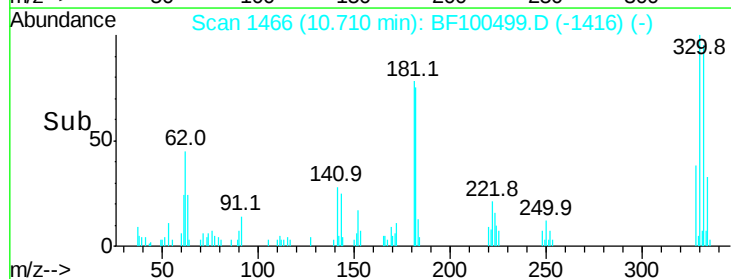
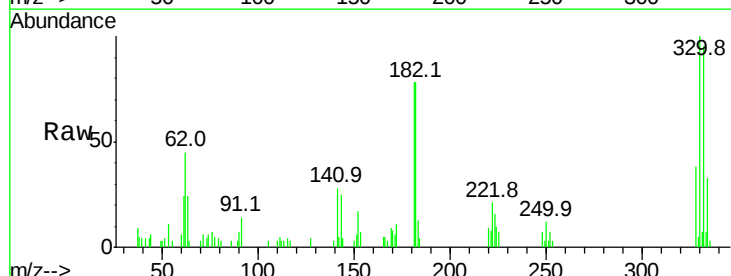
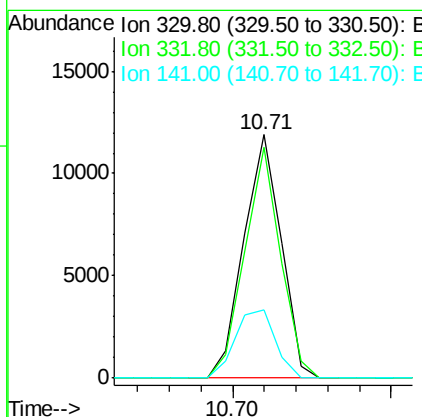
Manual Integrations
APPROVED

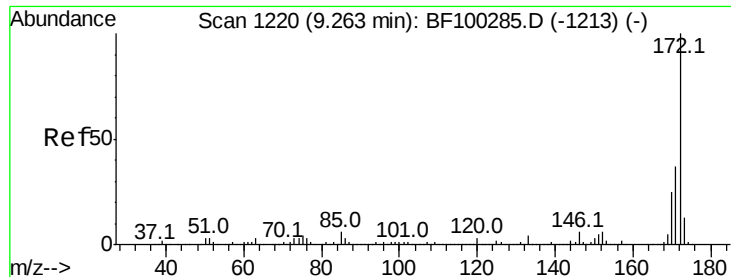
SOHIL
11/14/2017 5:20:14 PM



#41
2,4,6-Tribromophenol
Concen: 6.513 ng
RT: 10.71 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	91.2	77.0	115.6
141	30.2	29.9	44.9





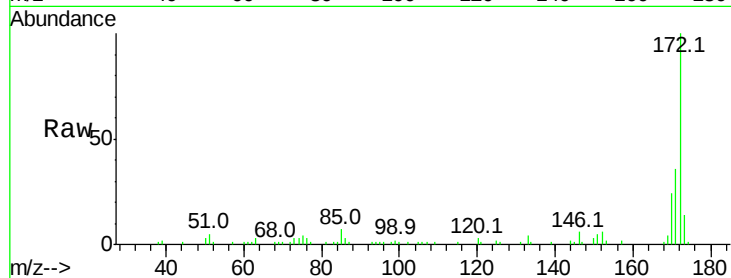
#44
2-Fluorobiphenyl
Concen: 5.233 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

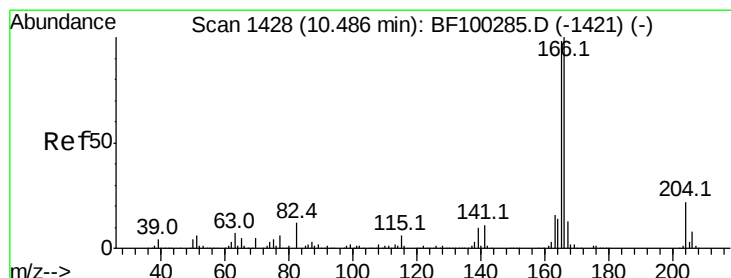
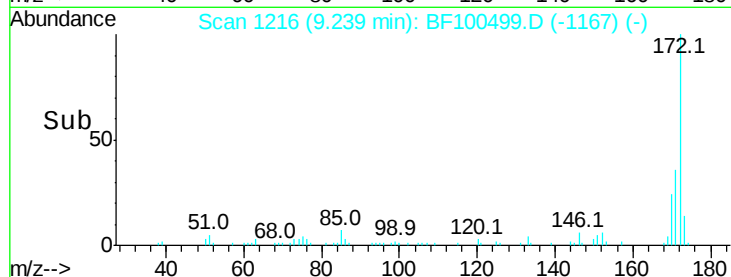
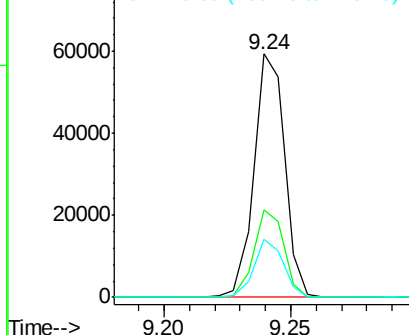
Tot Ion	Ratio	Resp	Lower	Upper
172	100	50201		
171	35.9		29.7	44.5
170	23.9		19.6	29.4

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM

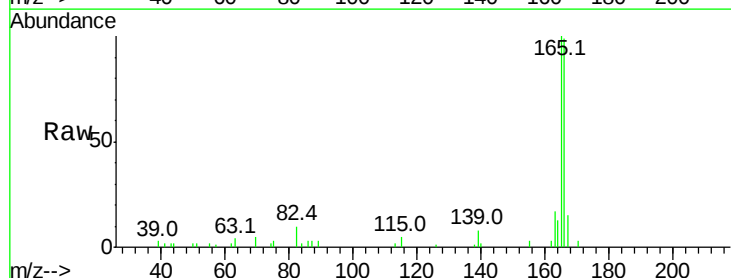


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

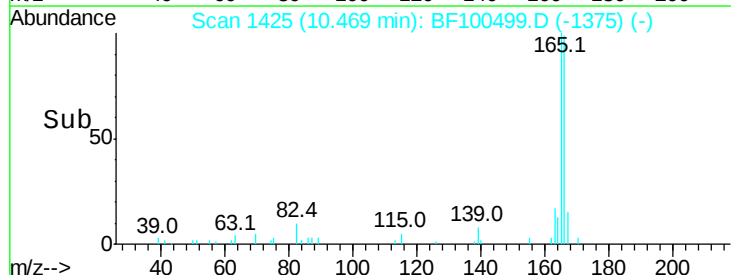
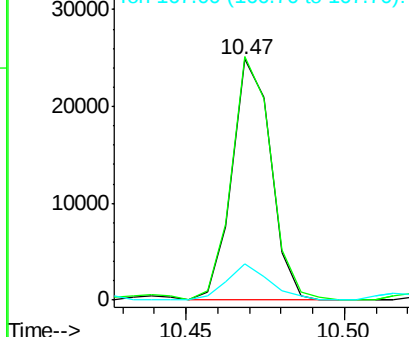


#57
Fluorene
Concen: 2.217 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	21029		
165	101.2		79.8	119.8
167	15.3		10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





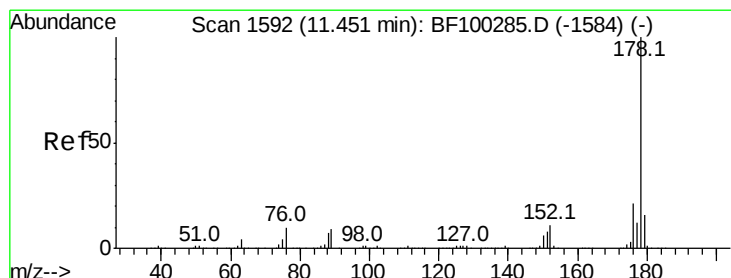
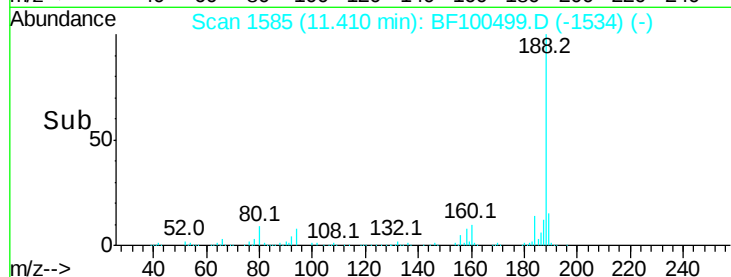
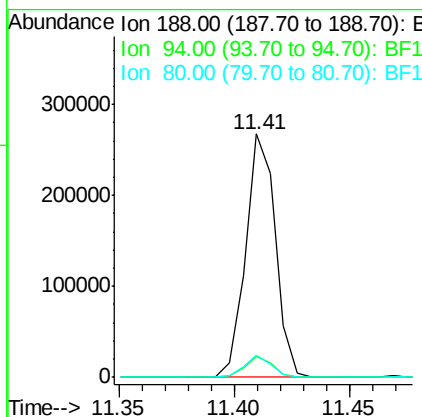
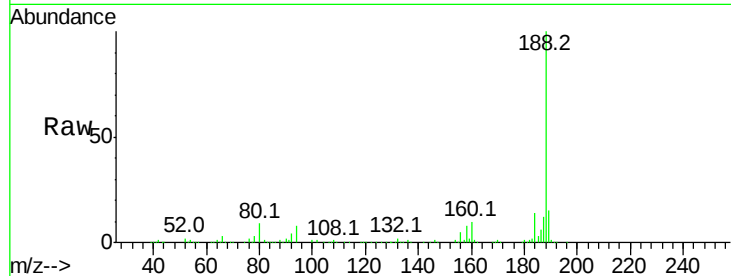
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampled :
LS-SOIL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.4	8.5	12.7#
80	9.1	9.2	13.8#

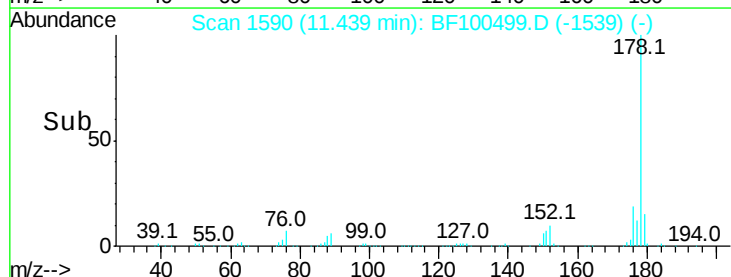
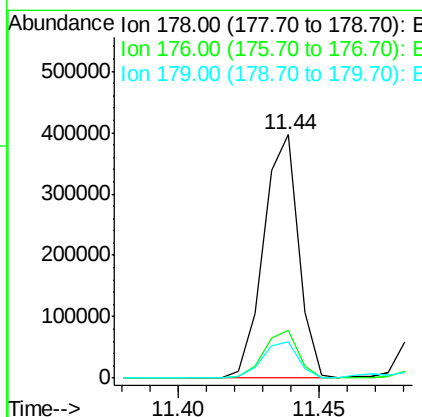
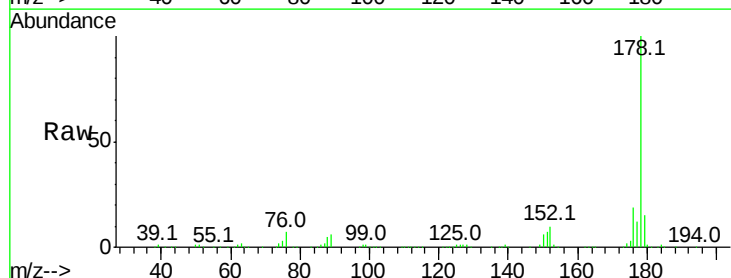
Manual Integrations
APPROVED

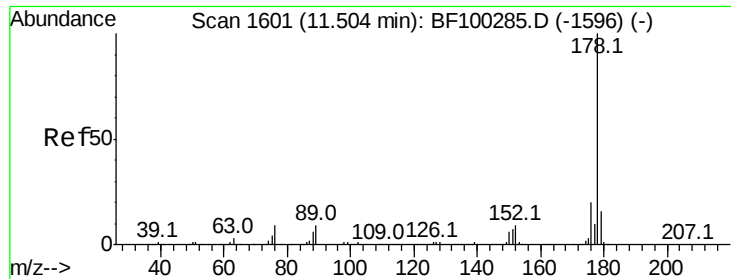
SOHIL
11/14/2017 5:20:14 PM



#70
Phenanthrene
Concen: 26.853 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.8	23.8
179	14.9	13.0	19.6





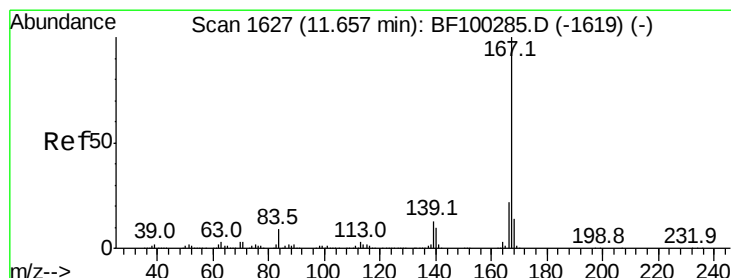
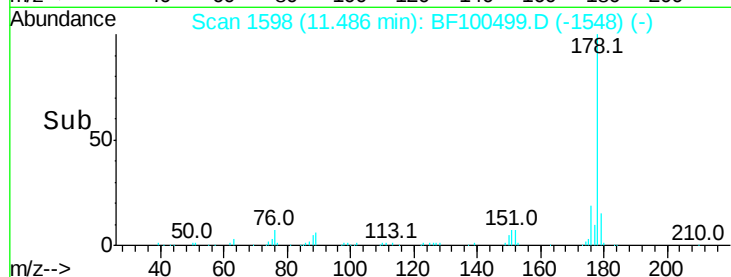
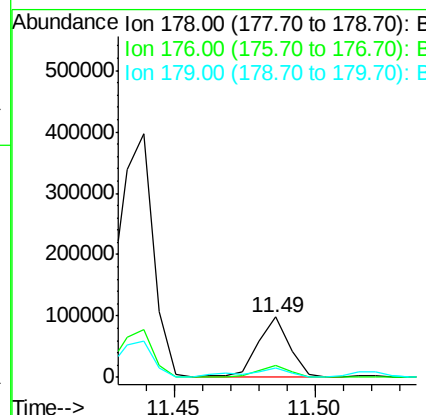
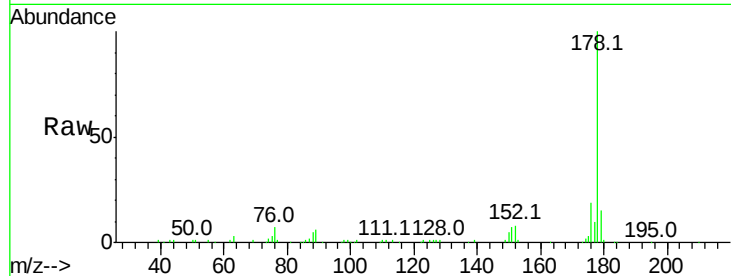
#71
 Anthracene
 Concen: 5.878 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Instrument :
 BNA_F
 ClientSampled :
 LS-SOIL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	14.9	12.6	19.0

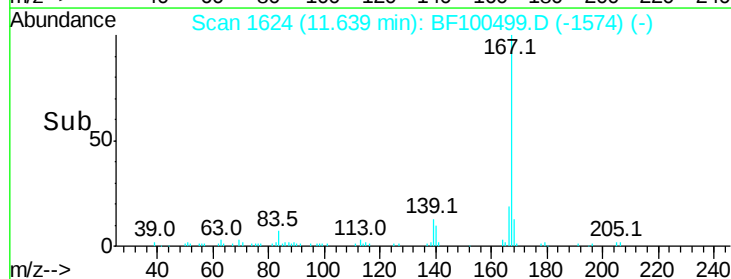
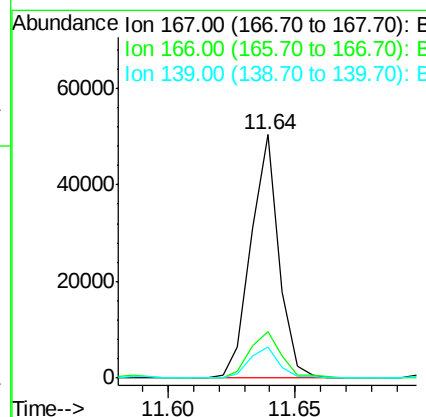
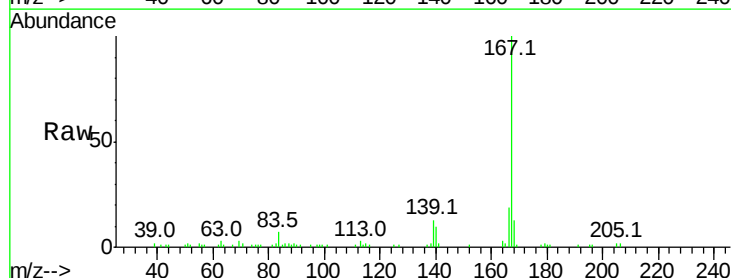
Manual Integrations
 APPROVED

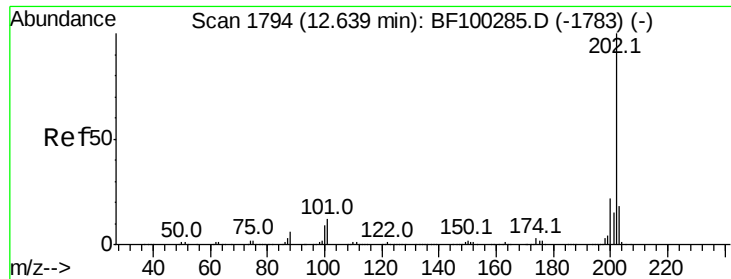
SOHIL
 11/14/2017 5:20:14 PM



#72
 Carbazole
 Concen: 3.246 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
167	100		
166	18.9	17.6	26.4
139	13.0	10.9	16.3





#74

Fluoranthene

Concen: 39.012 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

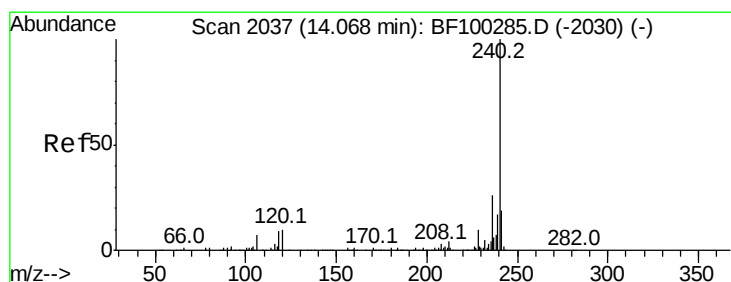
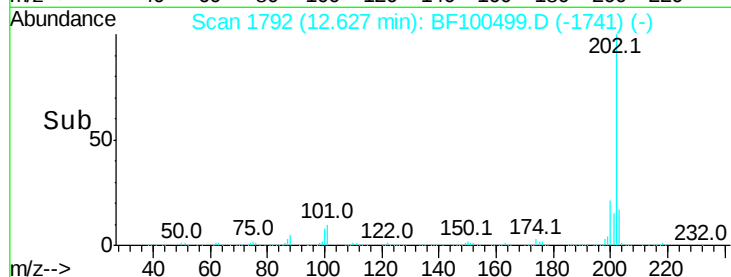
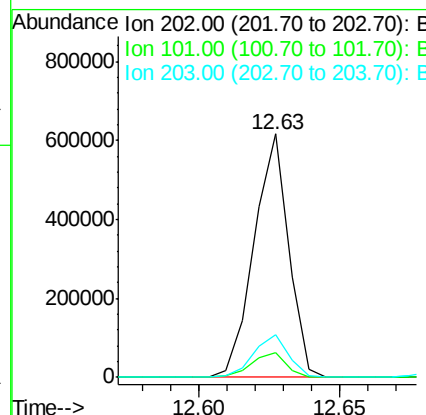
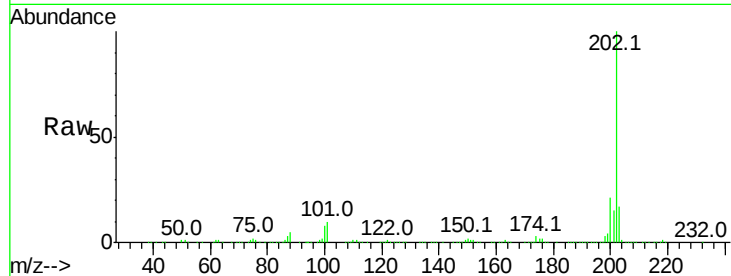
ClientSampleId :

LS-SOIL

Tot Ion:	202	Resp:	524625
Ion Ratio	Lower	Upper	
202	100		
101	10.0	0.0	34.1
203	17.4	0.0	38.1

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM



#75

Chrysene-d12

Concen: 20.000 ng

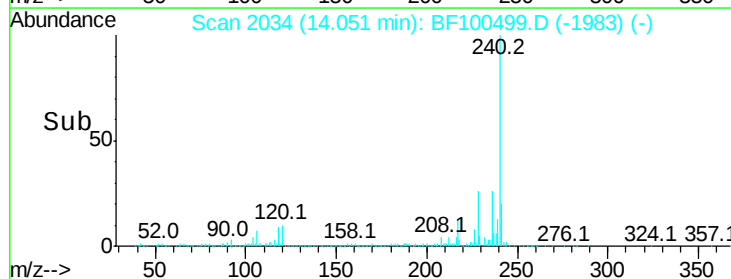
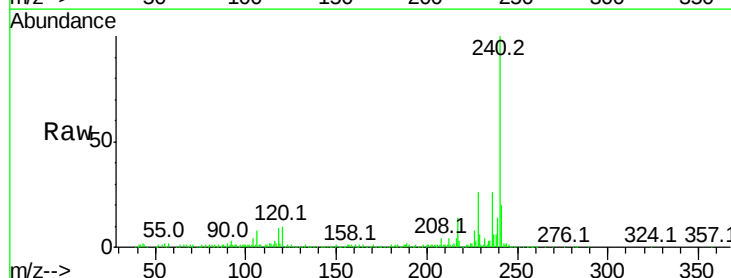
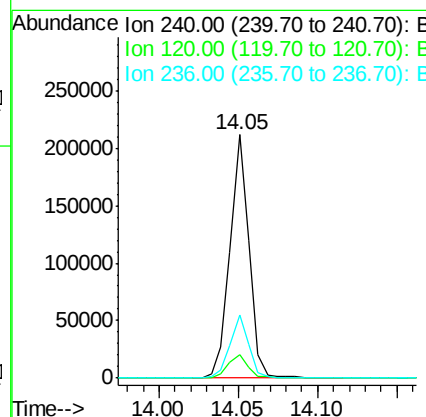
RT: 14.05 min Scan# 2034

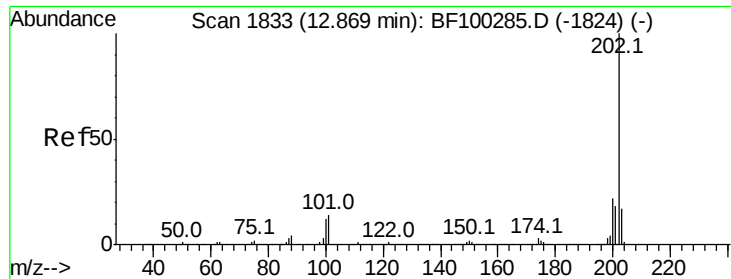
Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Tgt Ion:	240	Resp:	174386
Ion Ratio	Lower	Upper	
240	100		
120	9.7	9.5	14.3
236	26.0	20.7	31.1





#77

Pvrene

Concen: 36.019 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

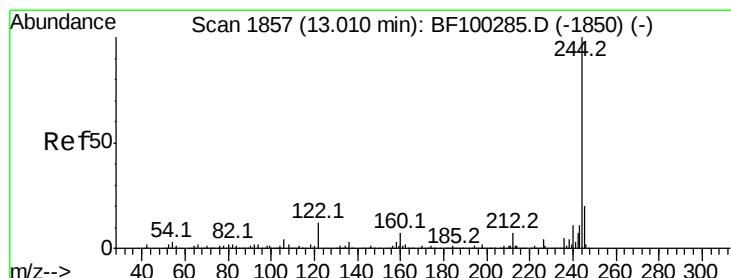
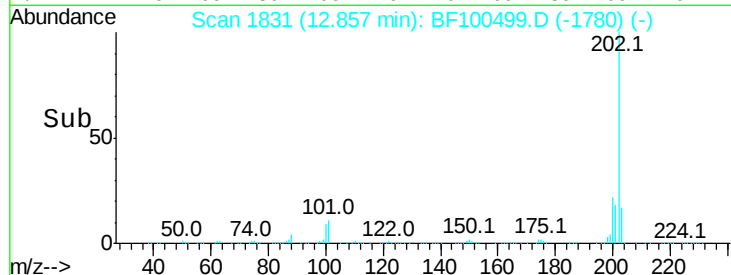
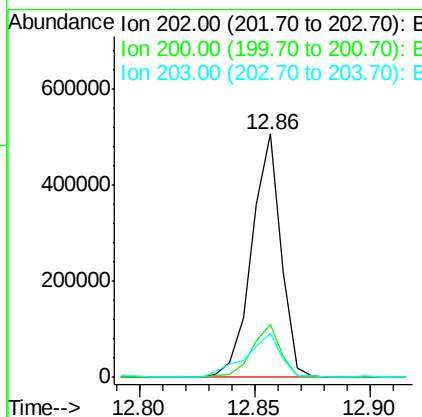
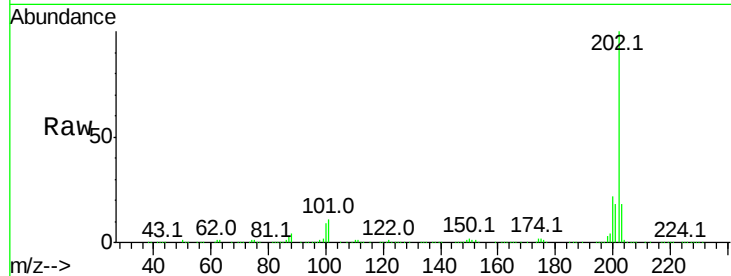
ClientSampleId :

LS-SOIL

Tot Ion:	202	Resp:	447744
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	17.8	14.3	21.5

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM



#78

Terphenyl-d14

Concen: 4.393 ng

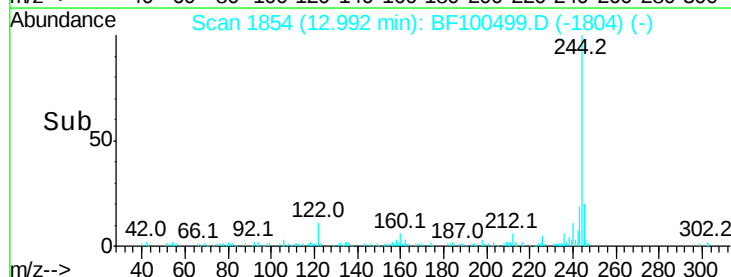
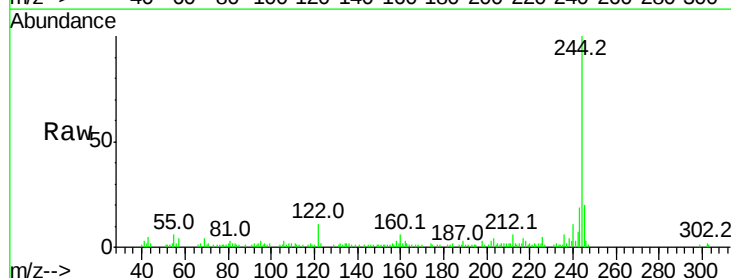
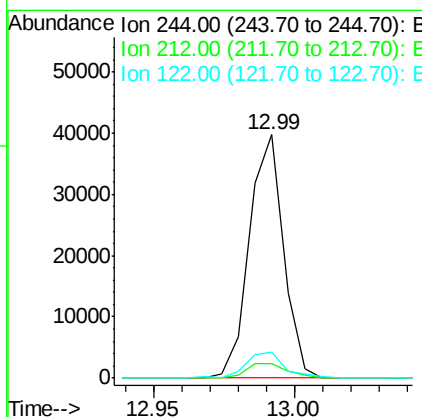
RT: 12.99 min Scan# 1854

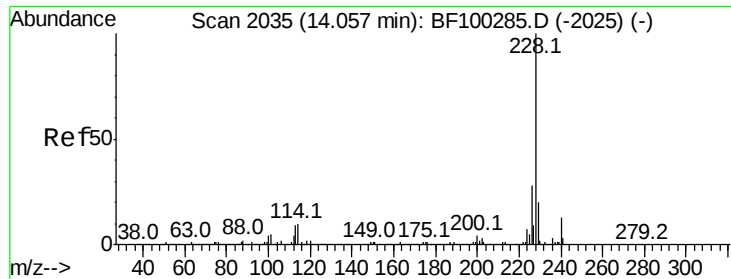
Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Tgt Ion:	244	Resp:	33343
Ion Ratio	Lower	Upper	
244	100		
212	5.8	5.4	8.0
122	10.7	11.0	16.4#





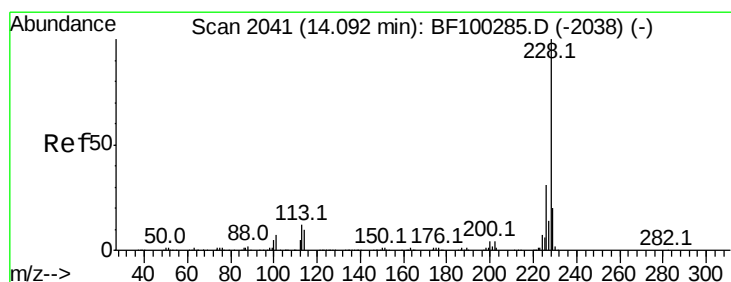
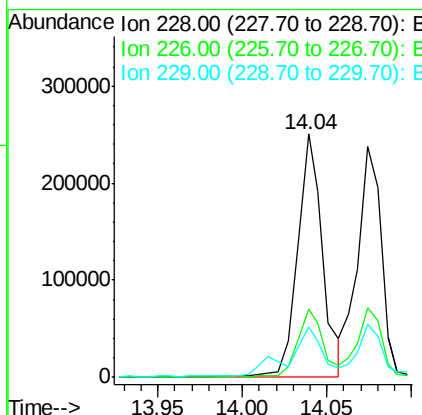
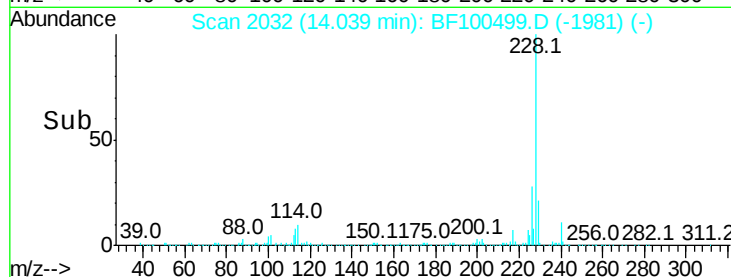
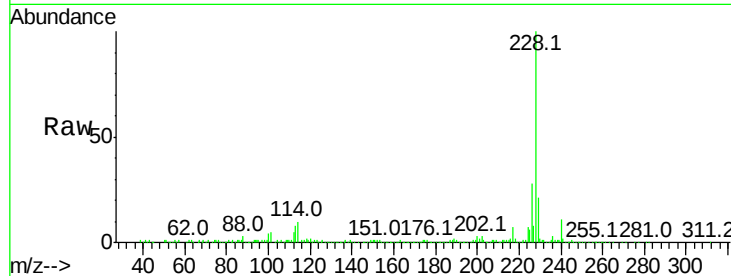
#80
Benzo(a)anthracene
Concen: 24.518 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	20.8	15.8	23.6

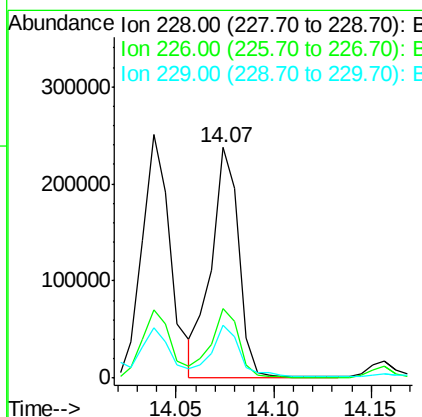
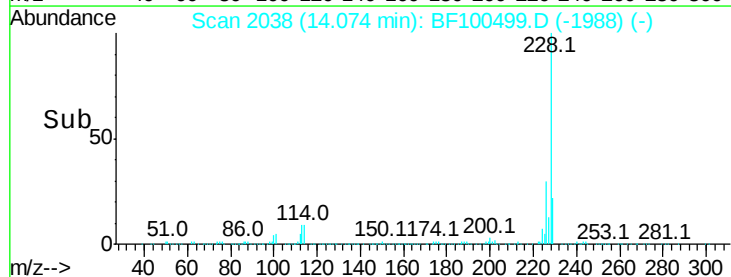
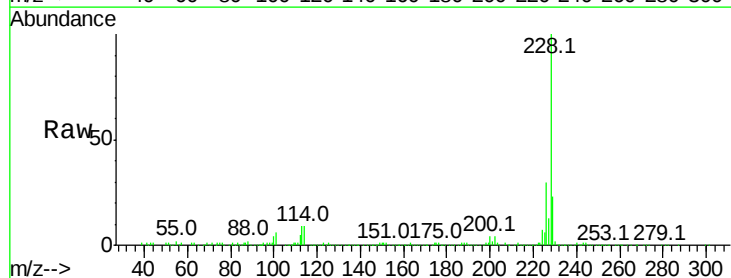
Manual Integrations
APPROVED

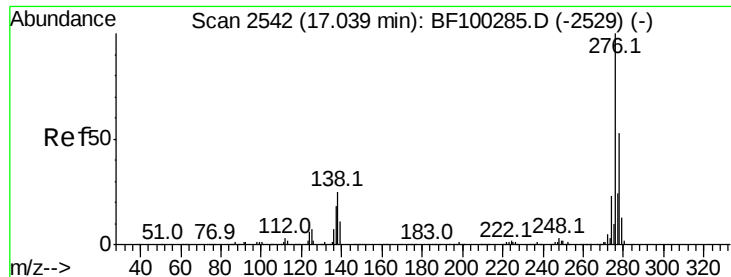
SOHIL
11/14/2017 5:20:14 PM



#82
Chrysene
Concen: 22.944 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	22.9	16.2	24.4





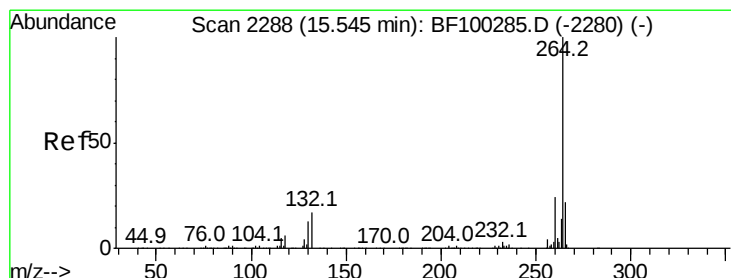
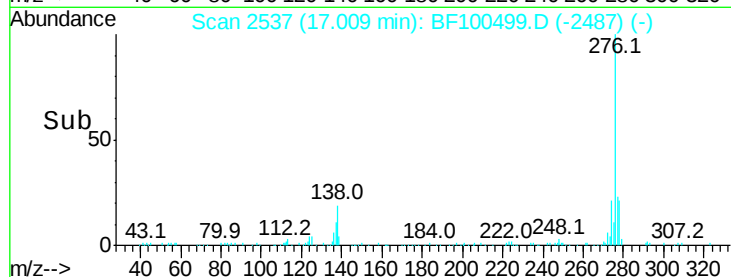
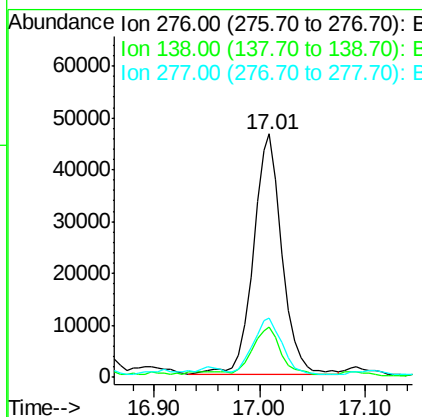
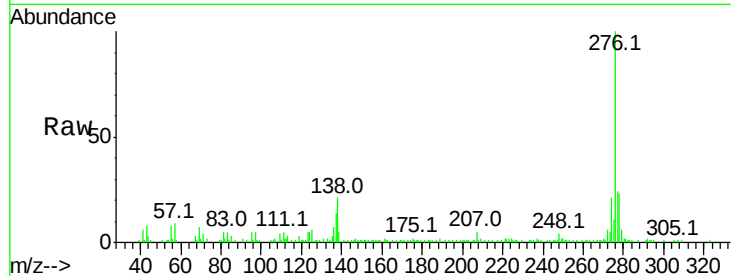
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.652 ng
 RT: 17.01 min Scan# 2537
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.3	25.0	37.6
277	23.9	20.1	30.1

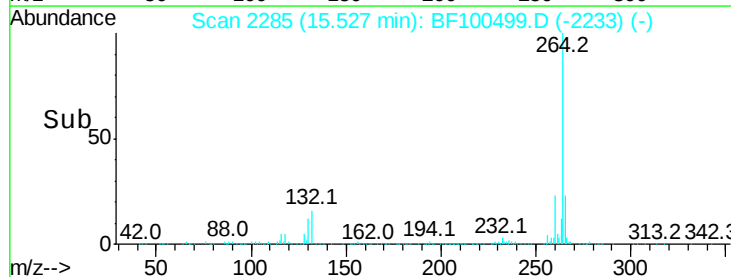
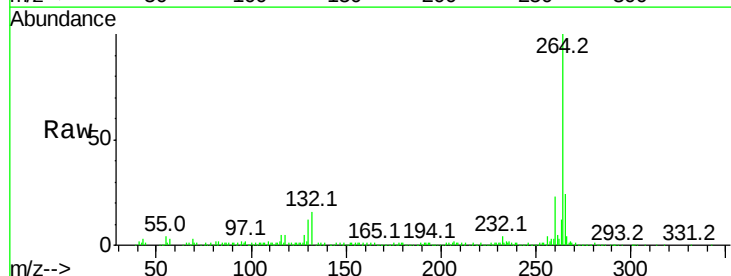
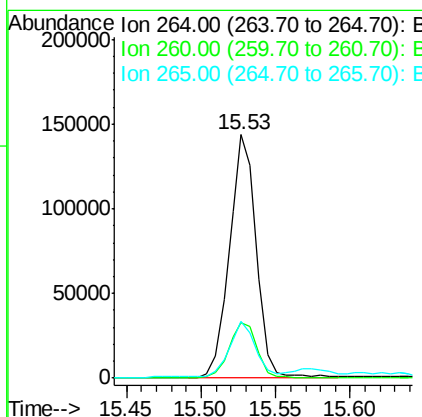
Manual Integrations
 APPROVED

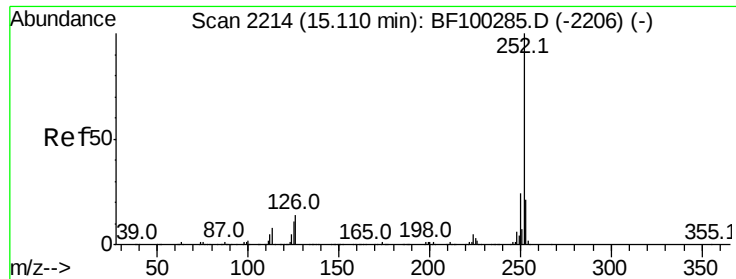
SOHIL
 11/14/2017 5:20:14 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.53 min Scan# 2285
 Delta R.T. 0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.2	28.8
265	23.5	17.5	26.3





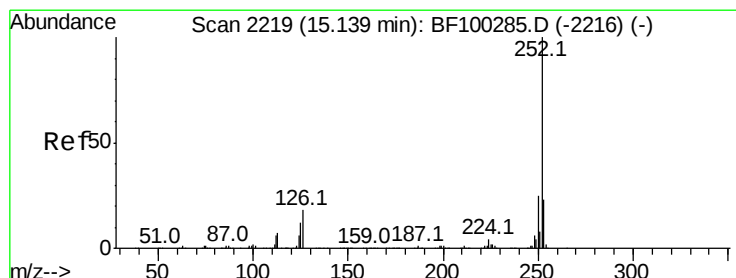
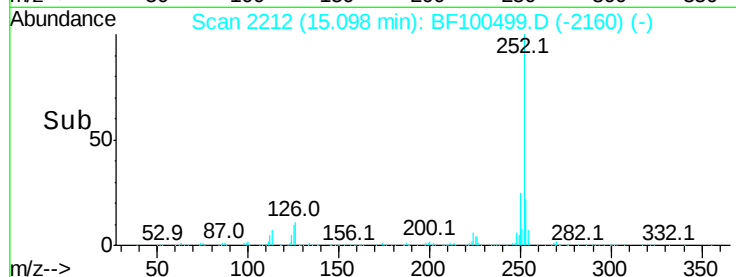
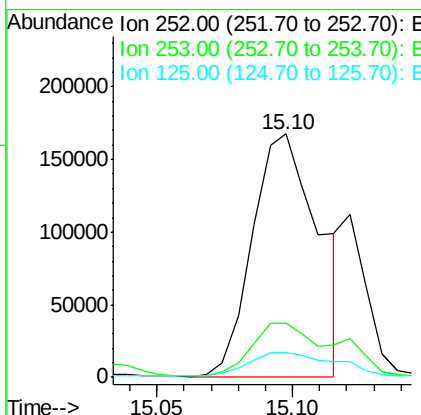
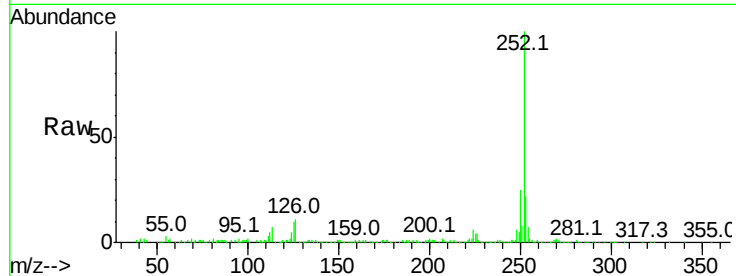
#87
Benzo(b)fluoranthene
Concen: 27.007 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	10.2	9.0	13.6

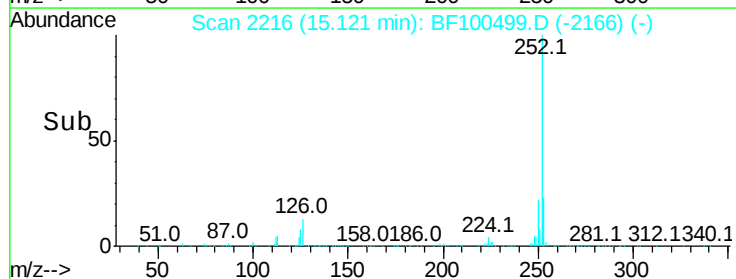
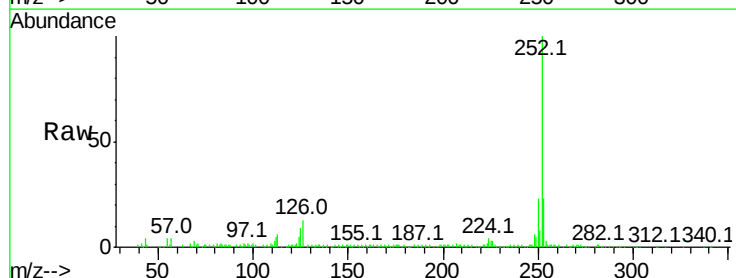
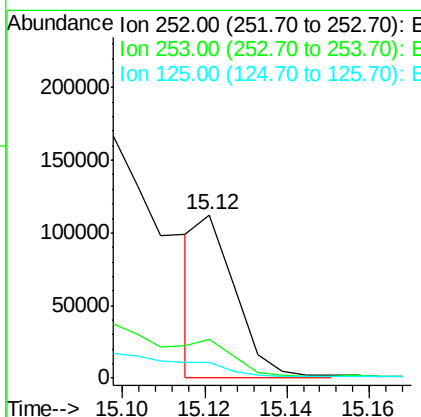
Manual Integrations
APPROVED

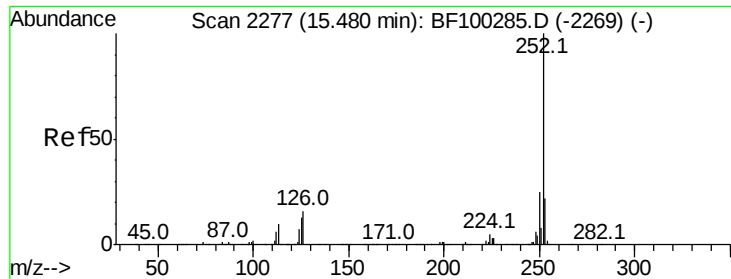
SOHIL
11/14/2017 5:20:14 PM



#88
Benzo(k)fluoranthene
Concen: 7.056 ng m
RT: 15.12 min Scan# 2216
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	9.3	10.2	15.2#





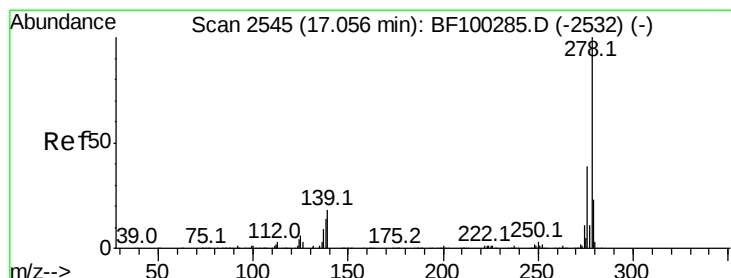
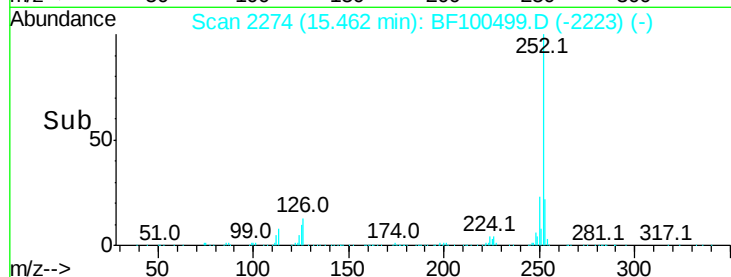
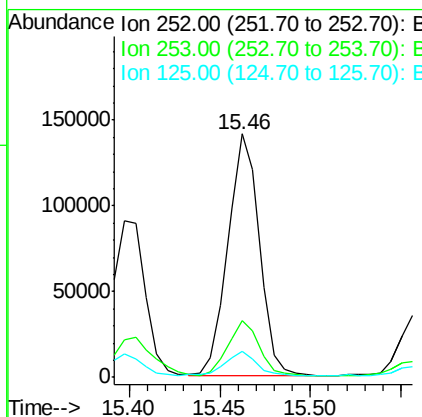
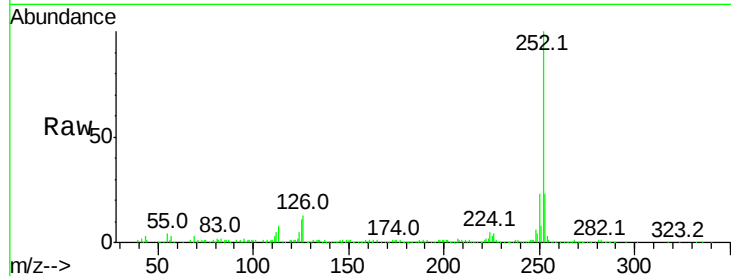
#89
Benzo(a)pyrene
Concen: 18.063 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	10.9	9.8	14.6

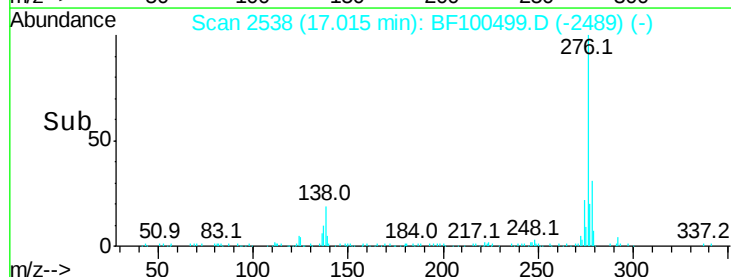
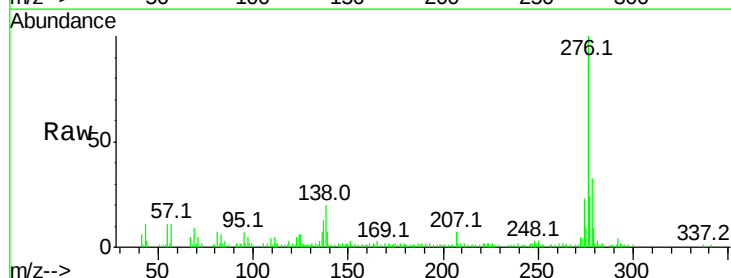
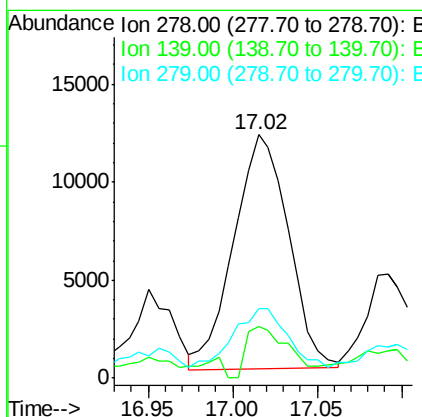
Manual Integrations
APPROVED

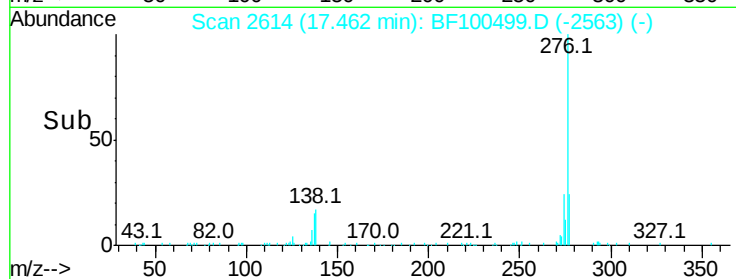
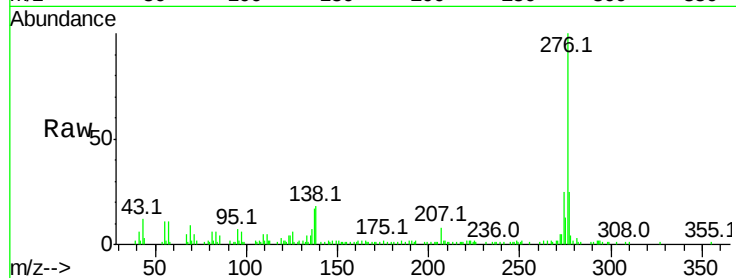
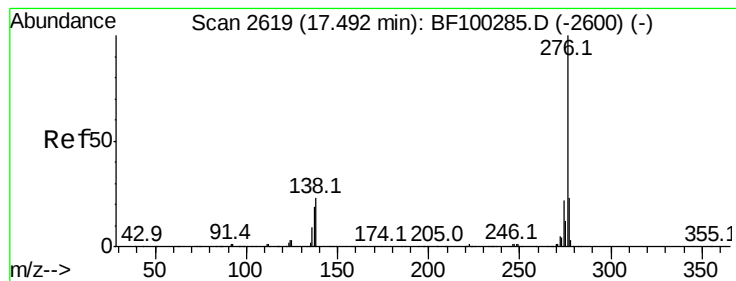
SOHIL
11/14/2017 5:20:14 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.489 ng
RT: 17.02 min Scan# 2538
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.3	15.9	23.9
279	28.4	19.0	28.4





#91

Benzo(a,h,i)perylene

Concen: 9.394 ng

RT: 17.46 min Scan# 2614

Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampled :

LS-SOIL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.9	17.9	26.9
138	18.4	21.8	32.8

Manual Integrations
APPROVED

SOHIL
11/14/2017 5:20:14 PM

