

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086054.D
 Acq On : 4 Apr 2016 23:06
 Operator : UM/SJ
 Sample : H2166-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-P-C-SOIL-PILE1

Manual Integrations
 APPROVED

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 4/5/2016 6:39:12 PM

Quant Time: Apr 05 03:46:14 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	118518	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	417472	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	176841	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	273804	20.00	ng	-0.01
75) Chrysene-d12	13.92	240	197324	20.00	ng	-0.01
86) Perylene-d12	15.33	264	144910	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	912311	131.58	ng	0.00
7) Phenol-d6	6.42	99	1128011	128.08	ng	0.00
23) Nitrobenzene-d5	7.33	82	668450	94.43	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	197454	118.96	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	1077723	101.33	ng	-0.01
78) Terphenyl-d14	12.87	244	751885	89.57	ng	-0.01
Target Compounds						
49) Dimethylphthalate	9.53	163	98967	7.55	ng	99
70) Phenanthrene	11.31	178	170462	11.41	ng	98
71) Anthracene	11.36	178	44443	2.84	ng	99
74) Fluoranthene	12.50	202	346131	22.28	ng	90
77) Pyrene	12.73	202	319403	22.97	ng	99
80) Benzo(a)anthracene	13.92	228	161330	13.87	ng	# 91
82) Chrysene	13.95	228	139737m	12.47	ng	
85) Indeno(1,2,3-cd)pyrene	16.69	276	66161	7.28	ng	# 92
87) Benzo(b)fluoranthene	14.93	252	167528m	18.38	ng	
88) Benzo(k)fluoranthene	14.95	252	66472m	8.23	ng	
89) Benzo(a)pyrene	15.28	252	110019	13.62	ng	96
91) Benzo(a,h,i)perylene	17.11	276	62324	9.91	ng	96

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

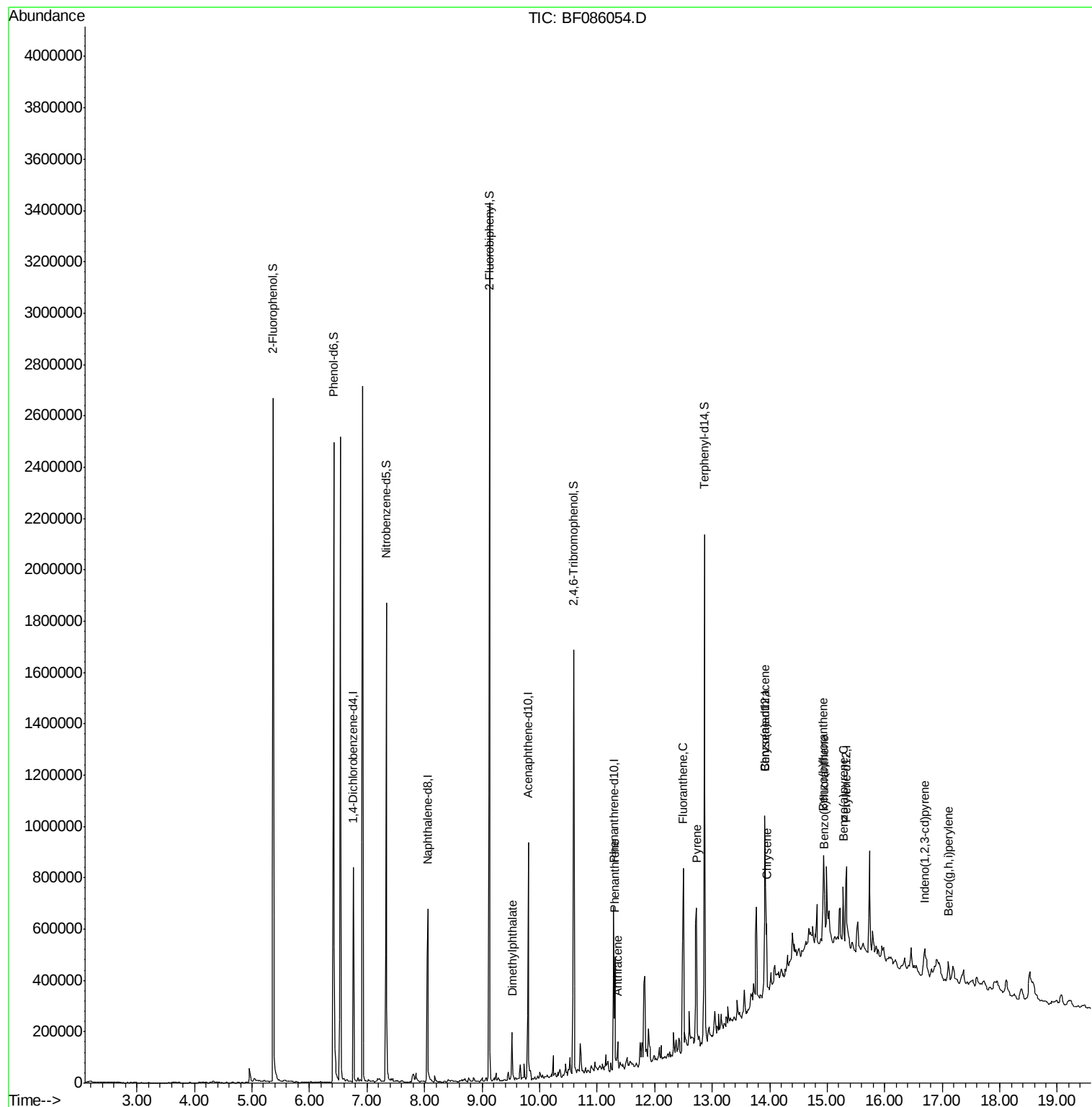
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
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#1

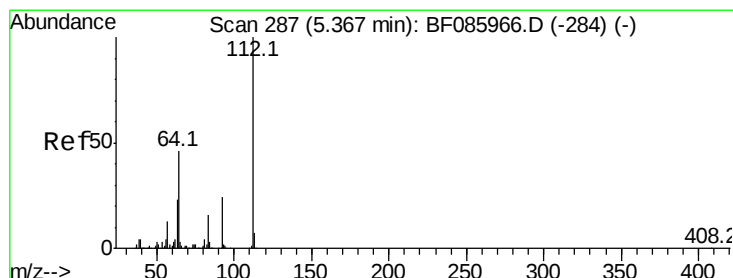
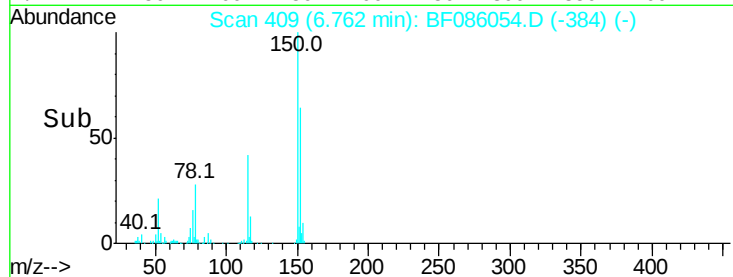
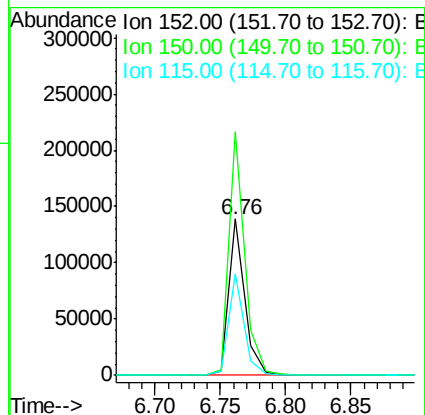
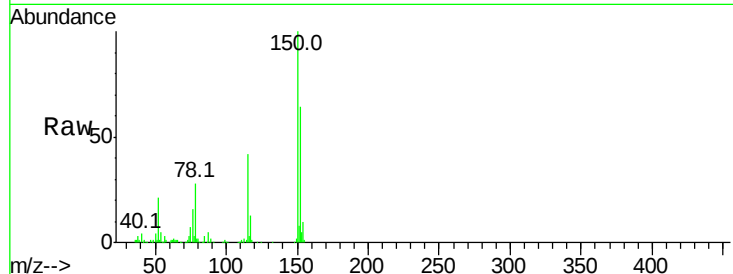
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 409
Delta R.T. -0.01 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

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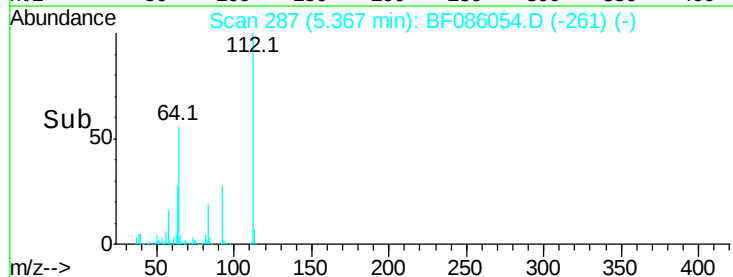
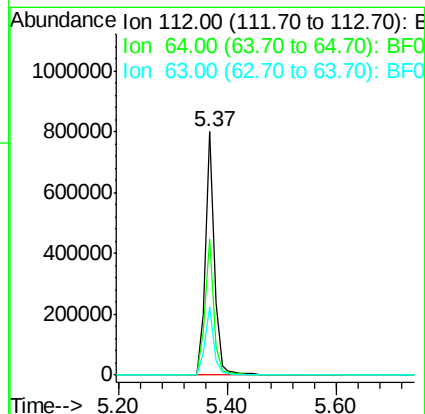
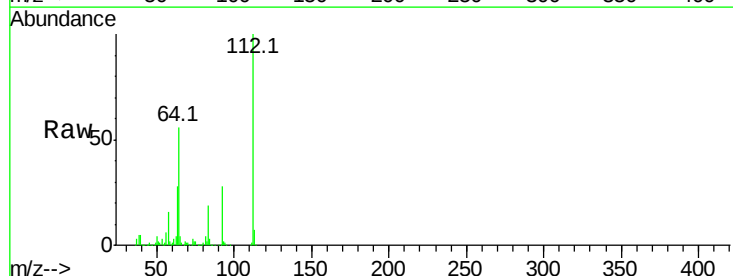
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.2	186.2
115	64.8	47.0	70.6



#5

2-Fluorophenol
Concen: 131.58 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	39.9	59.9
63	28.1	20.2	30.2





#7

Phenol-d6

Concen: 128.08 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

ClientSampleId :

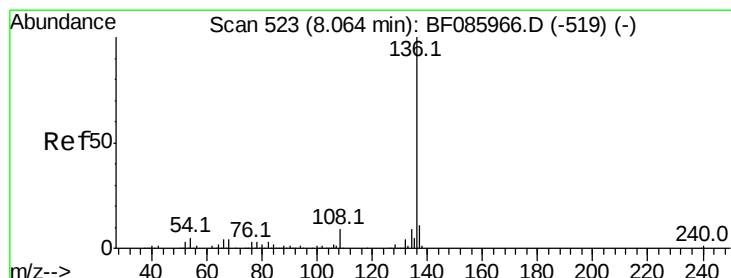
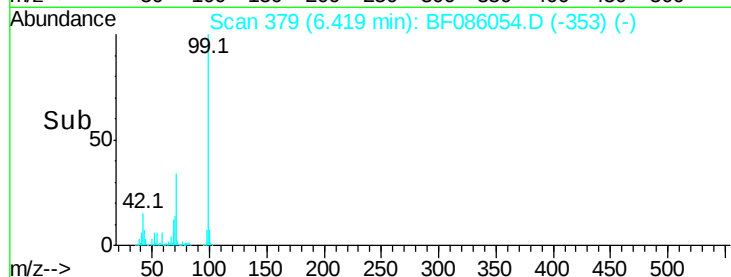
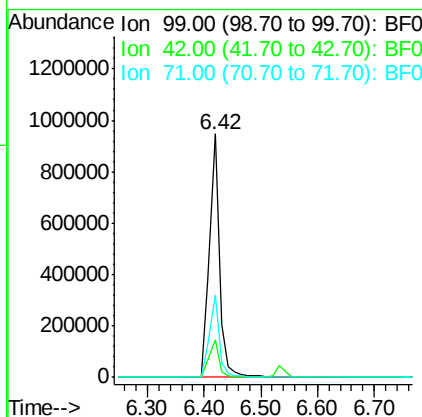
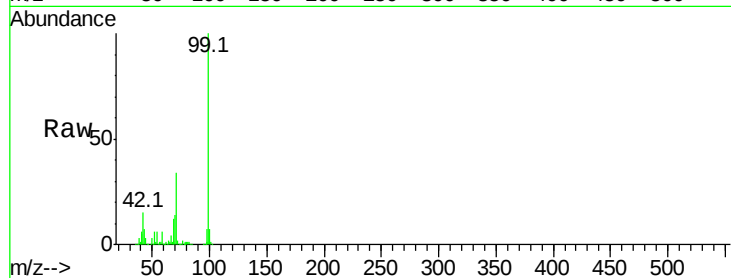
L-P-C-SOIL-PILE1

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Tot Ion:	99	Resp:	1128011
Ion	Ratio	Lower	Upper
99	100		
42	15.2	11.1	16.7
71	34.0	24.9	37.3



#21

Naphthalene-d8

Concen: 20.00 ng

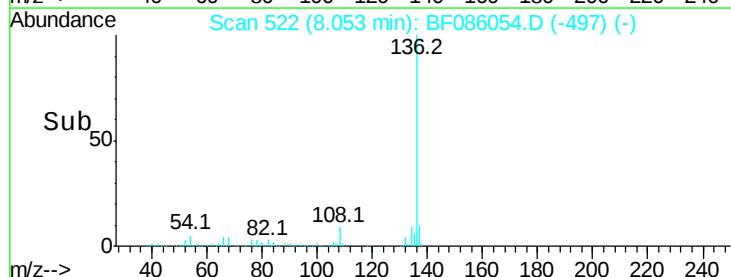
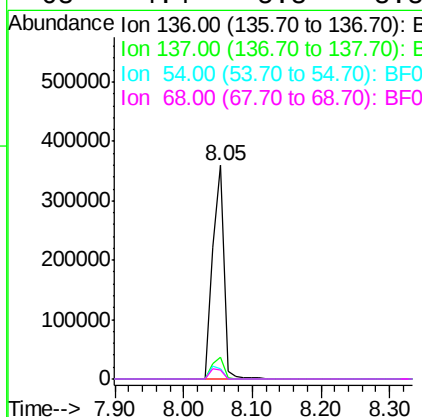
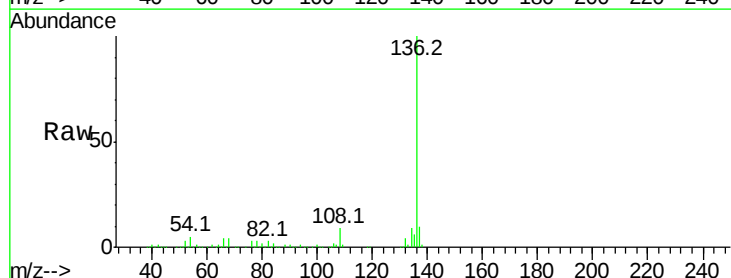
RT: 8.05 min Scan# 522

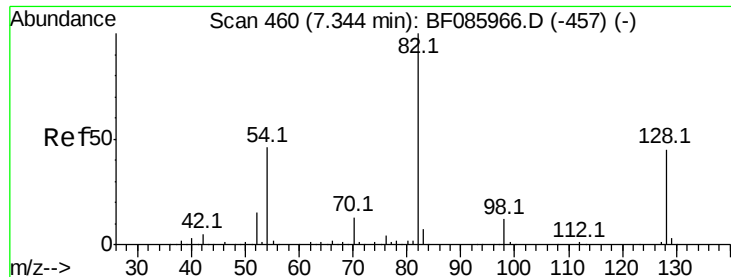
Delta R.T. -0.01 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Tgt Ion:	136	Resp:	417472
Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.1	13.7
54	4.9	7.4	11.0#
68	4.4	5.8	8.8#





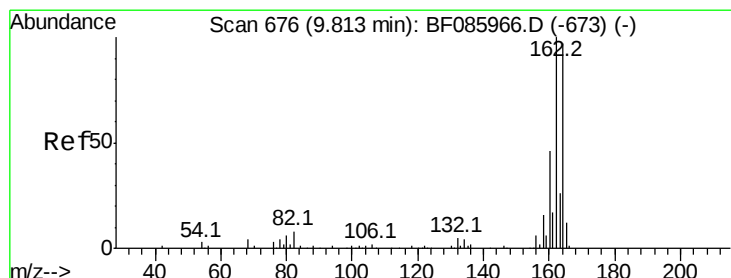
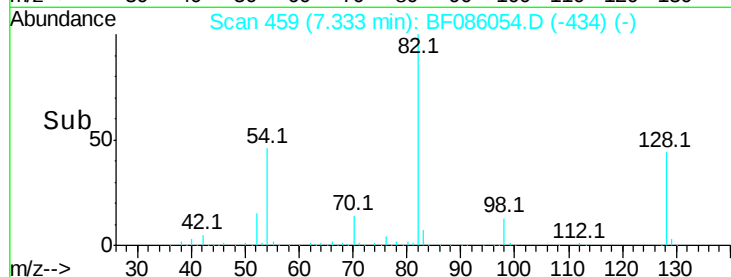
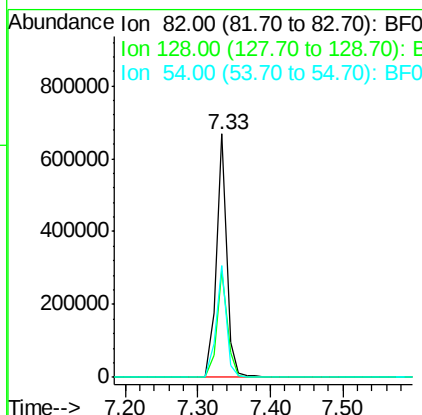
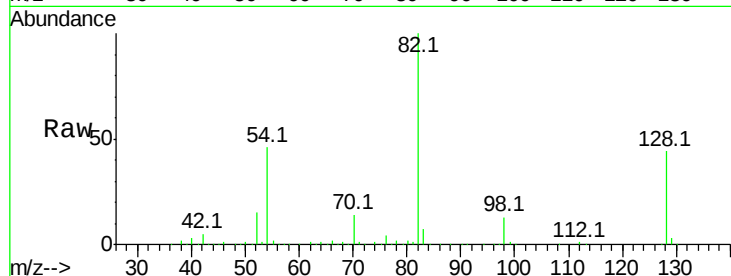
#23
Nitrobenzene-d5
Concen: 94.43 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.01 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.9	41.8	62.8	
54	45.7	33.4	50.0	

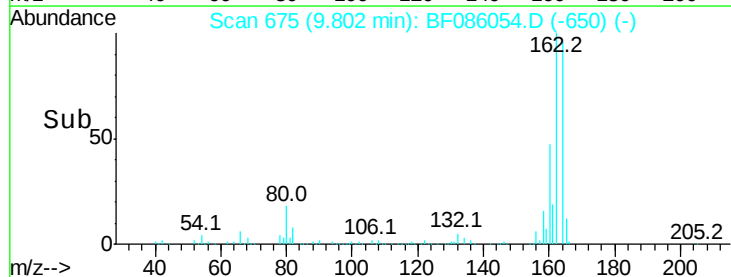
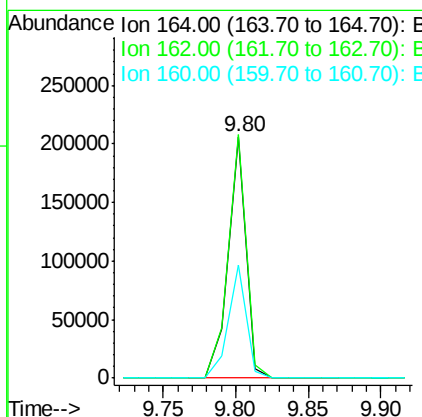
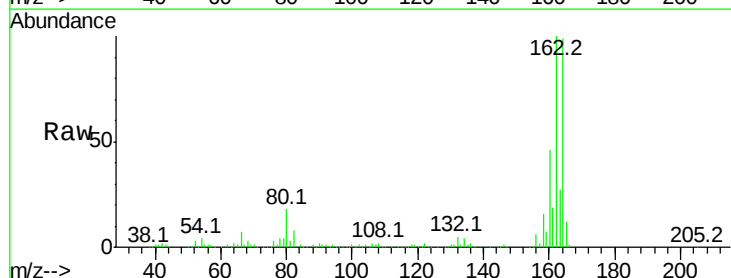
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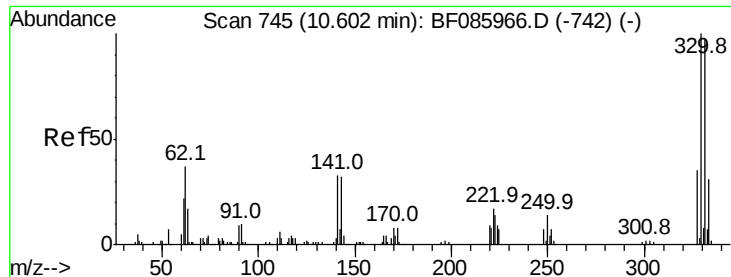
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.0	82.1	123.1	
160	46.9	37.4	56.2	





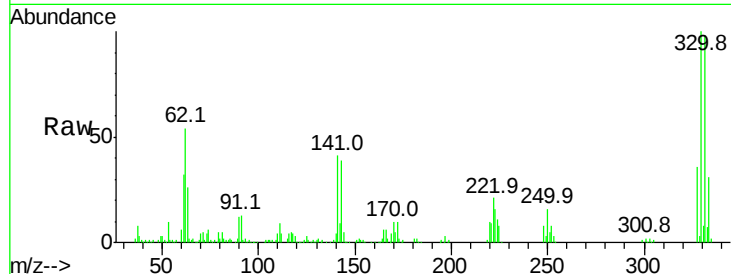
#41
 2,4,6-Tribromophenol
 Concen: 118.96 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF086054.D
 Acq: 4 Apr 2016 23:06

Instrument :
 BNA_F
 ClientSampleId :
 L-P-C-SOIL-PILE1

Tot Ion	Ratio	Resp	Lower	Upper
330	100	197454		
332	98.3	78.2	117.2	
141	39.2	31.5	47.3	

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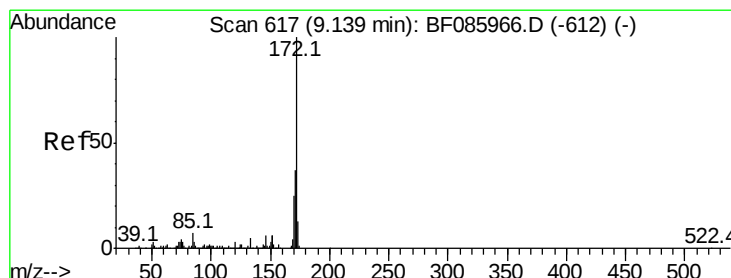
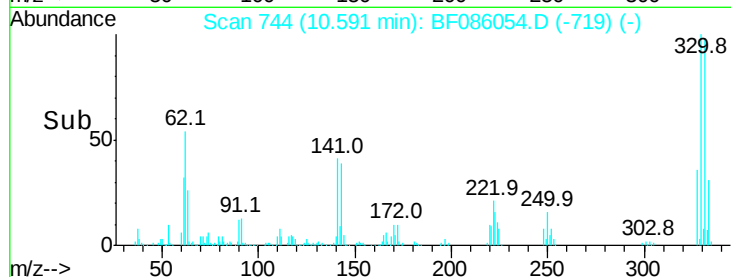
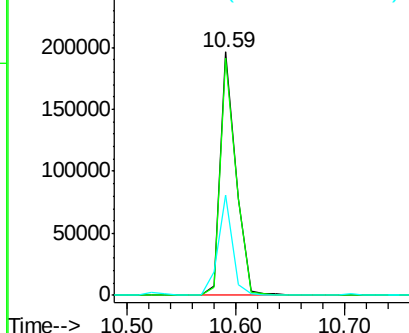


Abundance

Ion 329.80 (329.50 to 330.50): E

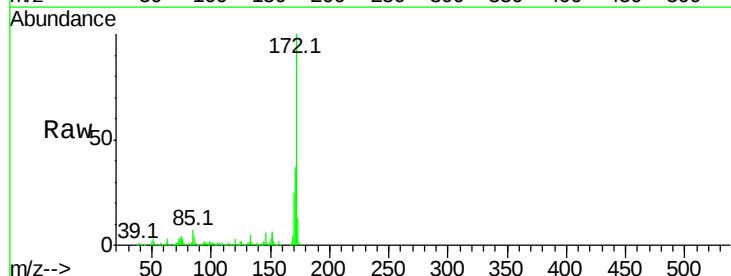
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 101.33 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF086054.D
 Acq: 4 Apr 2016 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1077723		
171	36.6	29.4	44.2	
170	24.8	19.8	29.6	

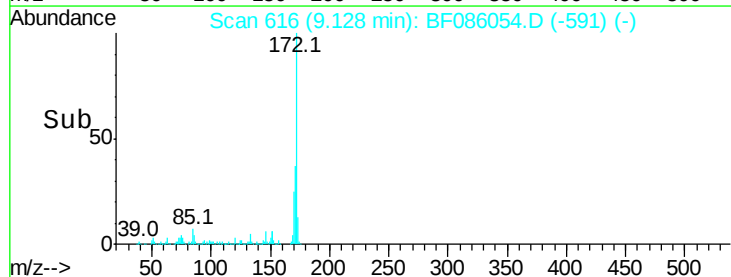
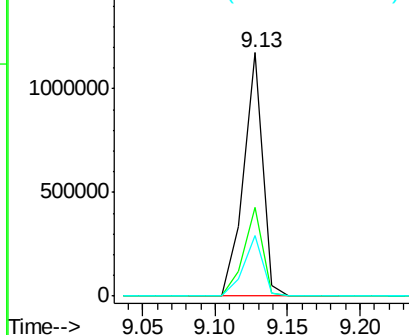


Abundance

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





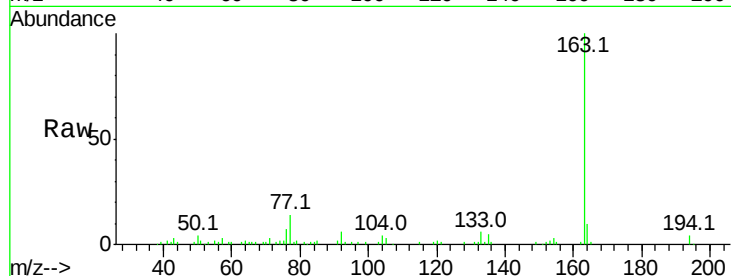
#49
Dimethylphthalate
Concen: 7.55 ng
RT: 9.53 min Scan# 651
Delta R.T. -0.01 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

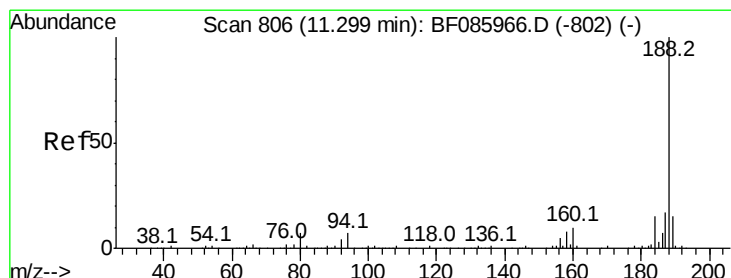
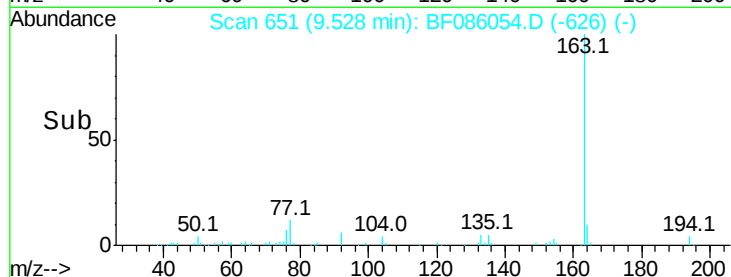
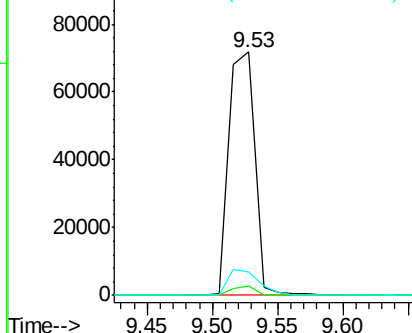
Tot Ion:	163	Resp:	98967
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.9	4.3
164	9.8	8.3	12.5

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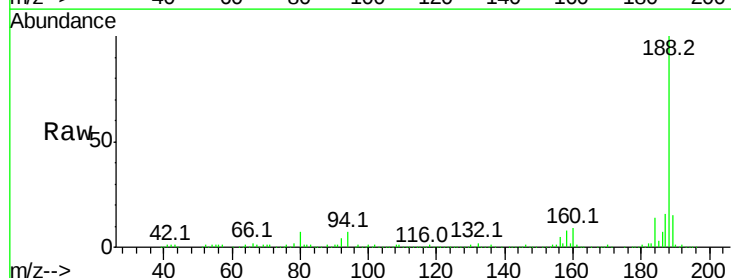


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

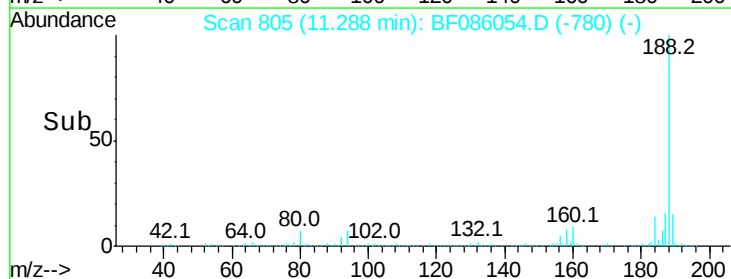
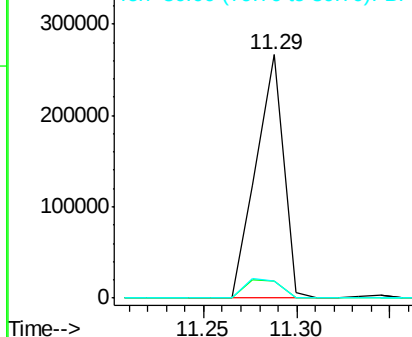


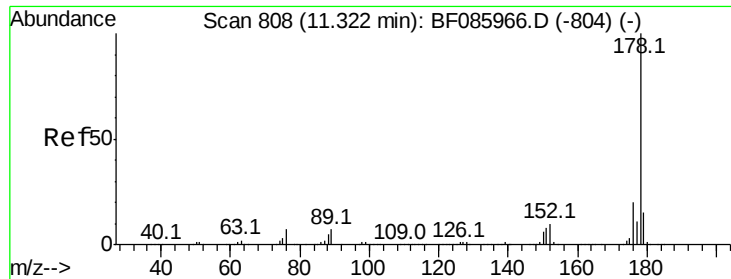
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Tgt Ion:	188	Resp:	273804
Ion Ratio	Lower	Upper	
188	100		
94	7.1	5.4	8.0
80	7.0	5.5	8.3



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 11.41 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

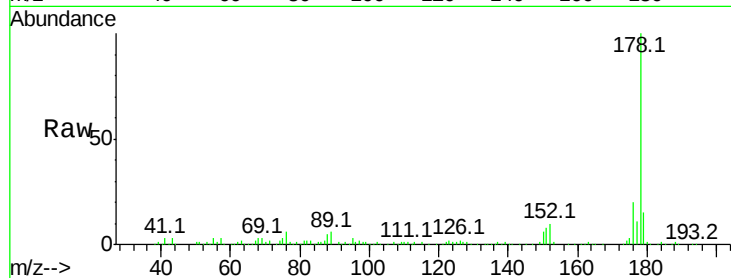
ClientSampleId :

L-P-C-SOIL-PILE1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	14.9	12.6	18.8

Manual Integrations
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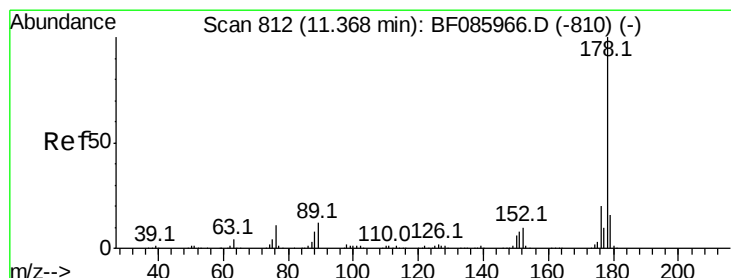
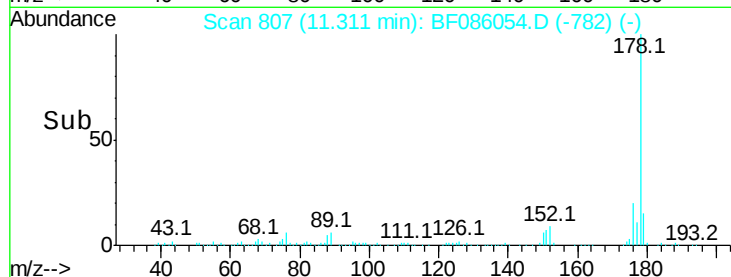
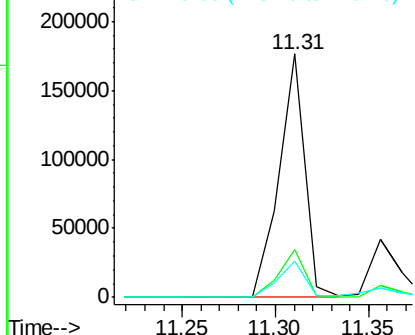
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.84 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF086054.D

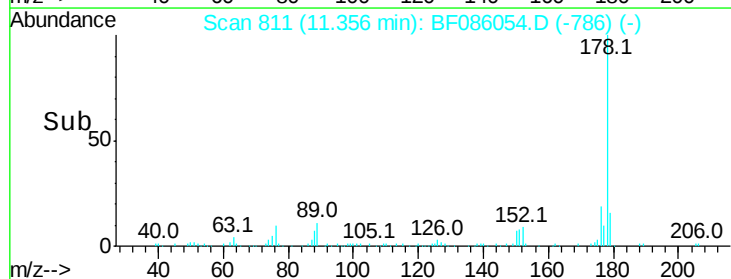
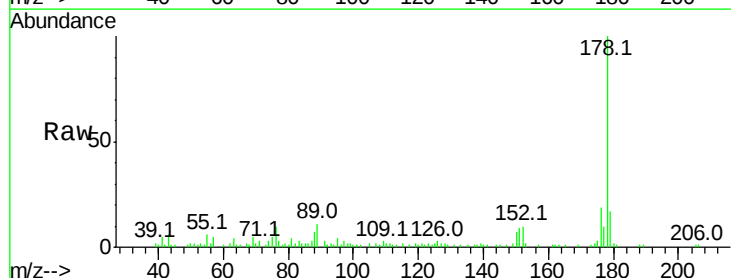
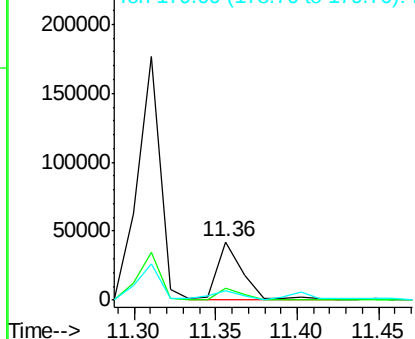
Acq: 4 Apr 2016 23:06

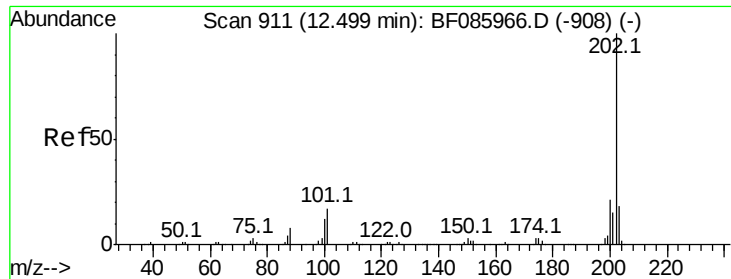
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	16.7	13.0	19.4

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 22.28 ng

RT: 12.50 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

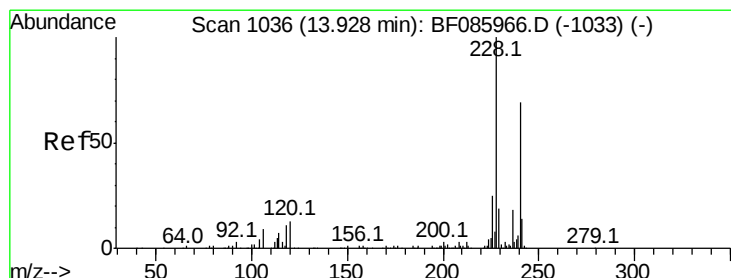
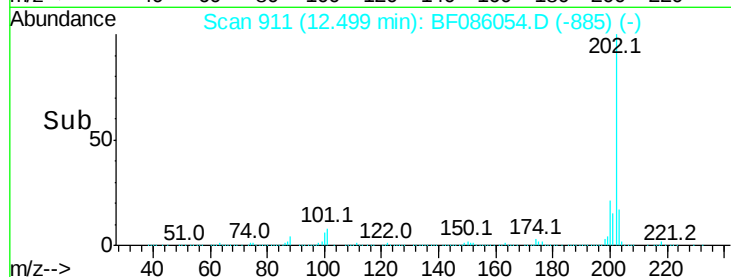
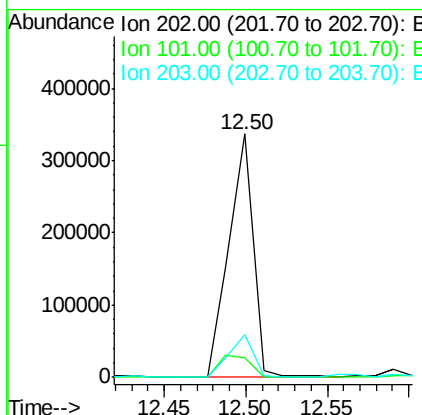
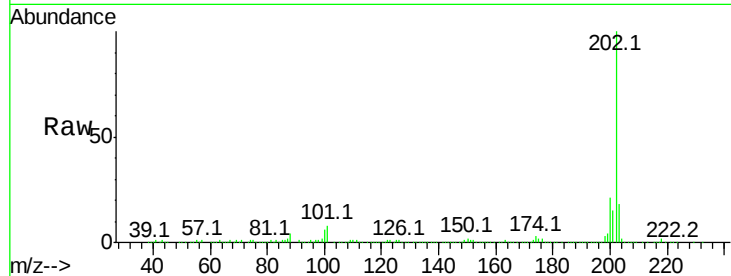
ClientSampleId :

L-P-C-SOIL-PILE1

Tot Ion:	202	Resp:	346131
Ion Ratio	Lower	Upper	
202	100		
101	8.1	0.0	36.6
203	17.6	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

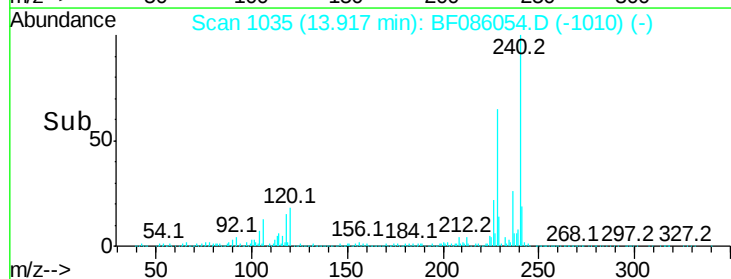
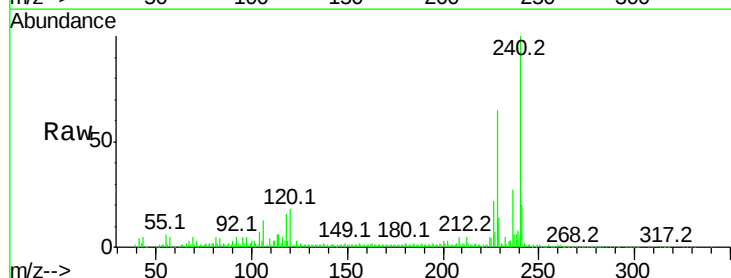
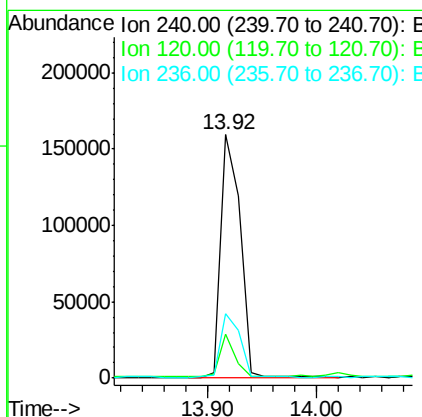
RT: 13.92 min Scan# 1035

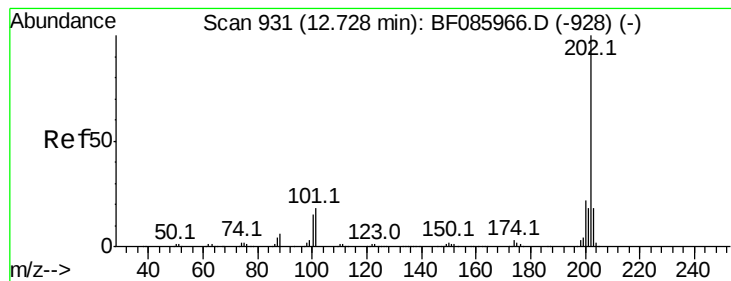
Delta R.T. -0.01 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Tgt Ion:	240	Resp:	197324
Ion Ratio	Lower	Upper	
240	100		
120	18.0	13.8	20.8
236	26.7	20.6	30.8





#77

Pvrene

Concen: 22.97 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

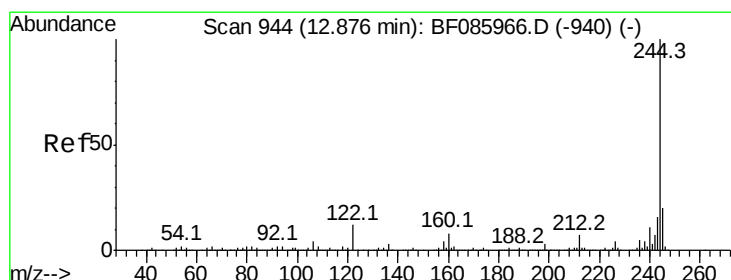
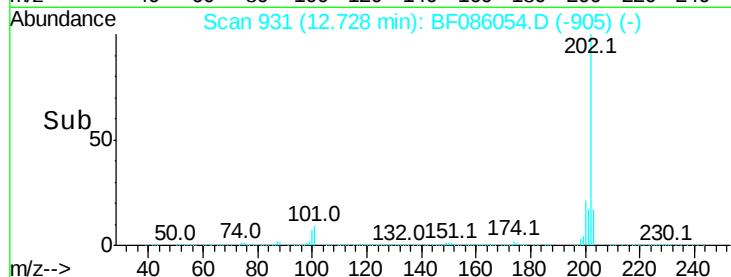
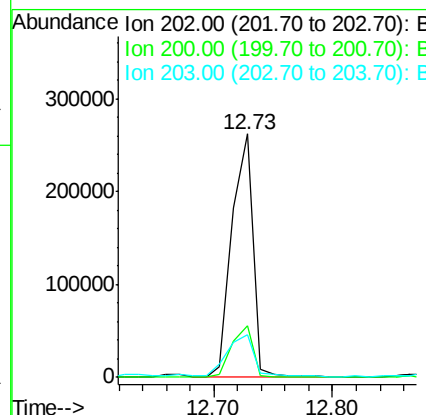
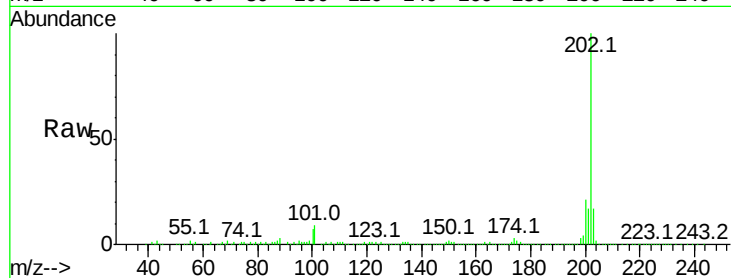
ClientSampleId :

L-P-C-SOIL-PILE1

Tot Ion:	202	Resp:	319403
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.6	26.4
203	17.5	14.0	21.0

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#78

Terphenyl-d14

Concen: 89.57 ng

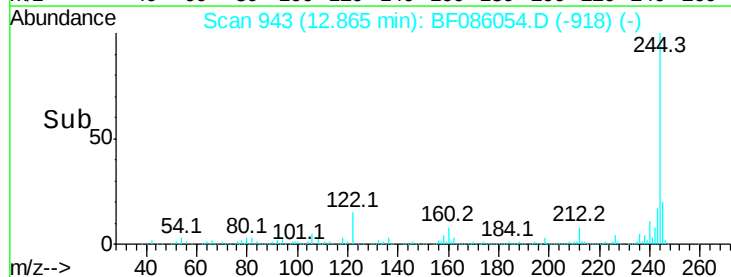
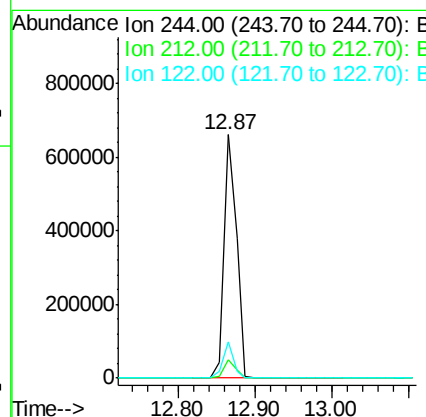
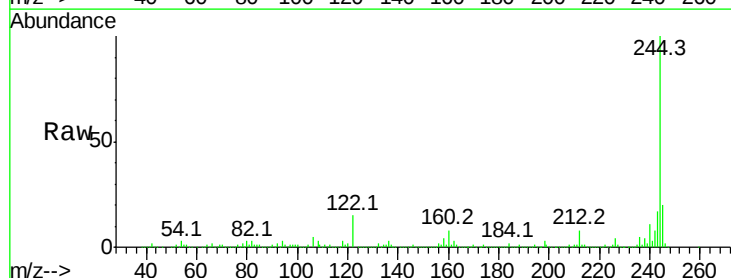
RT: 12.87 min Scan# 943

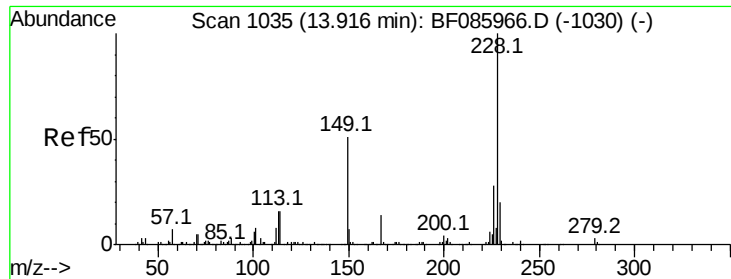
Delta R.T. -0.01 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Tgt Ion:	244	Resp:	751885
Ion Ratio	Lower	Upper	
244	100		
212	7.5	6.1	9.1
122	14.7	10.2	15.4





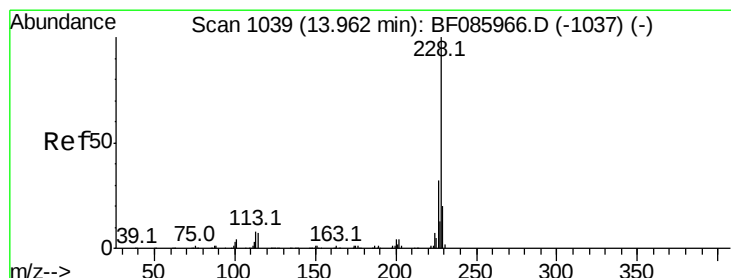
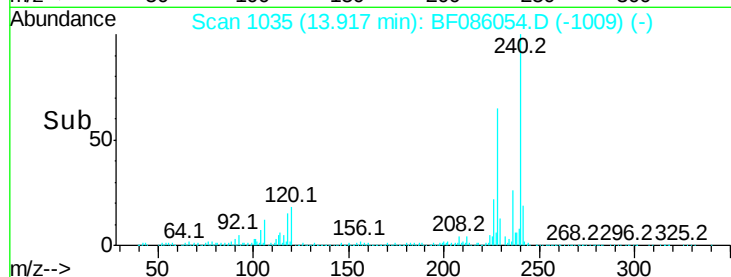
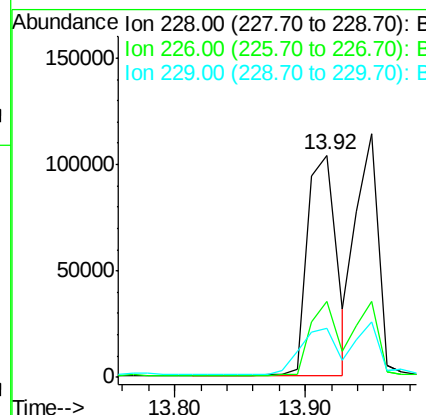
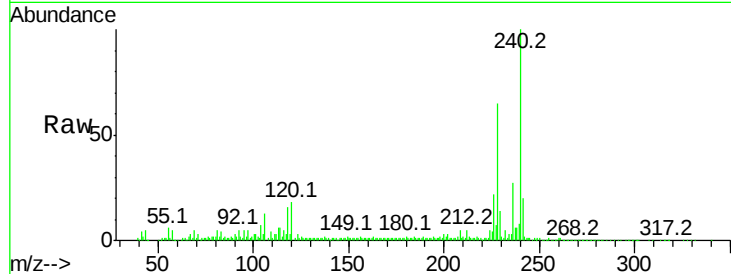
#80
Benzo(a)anthracene
Concen: 13.87 ng
RT: 13.92 min Scan# 1035
Delta R.T. 0.00 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.9	22.1	33.1
229	22.0	16.2	24.4

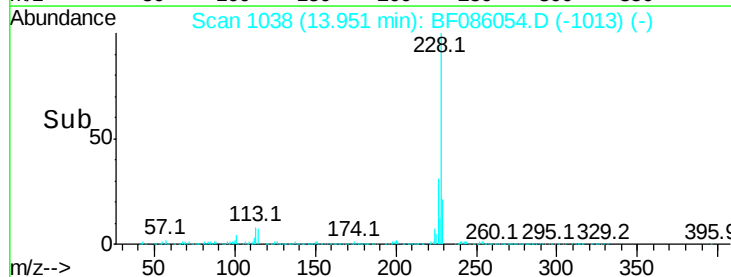
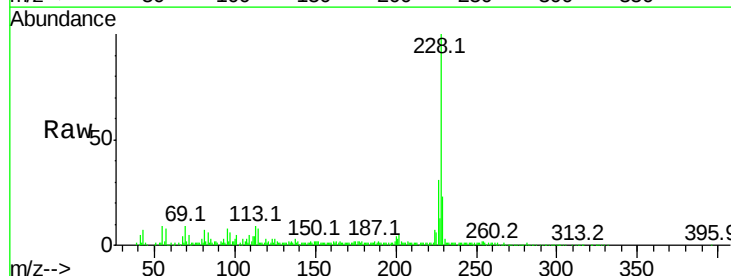
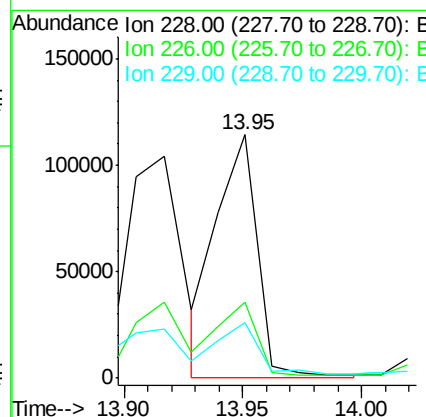
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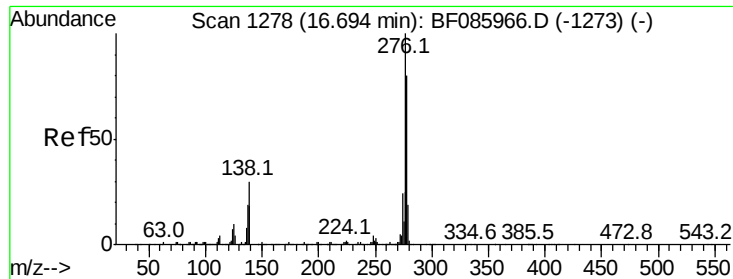
Sohil
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#82
Chrysene
Concen: 12.47 ng m
RT: 13.95 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF086054.D
Acq: 4 Apr 2016 23:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.6
229	22.5	15.7	23.5





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.28 ng

RT: 16.69 min Scan# 1278

Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

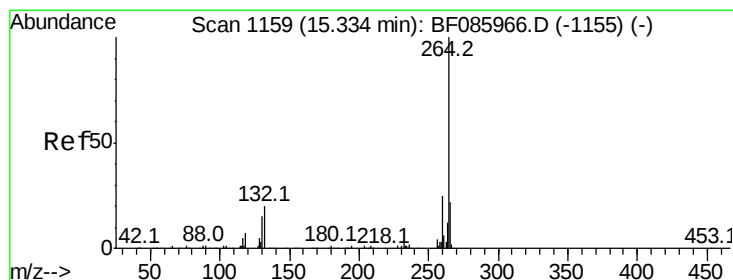
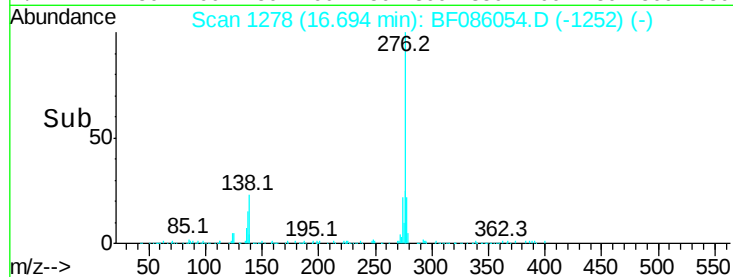
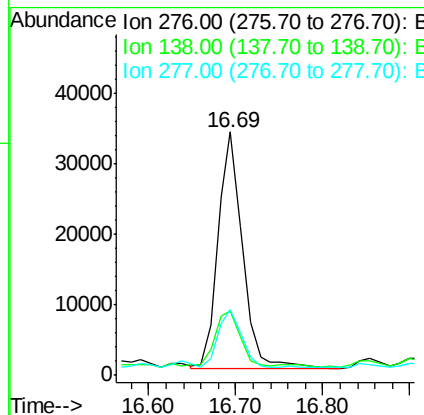
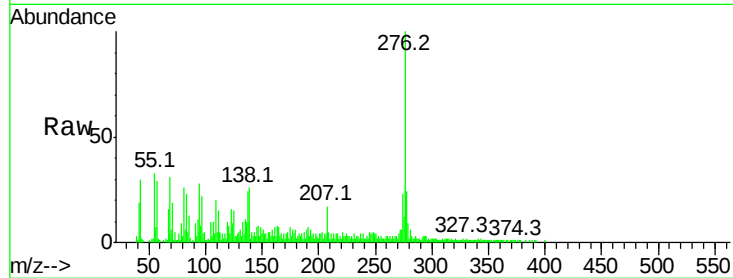
ClientSampleId :

L-P-C-SOIL-PILE1

Tot Ion:	276	Resp:	66161
Ion Ratio	Lower	Upper	
276	100		
138	24.0	24.2	36.4#
277	23.5	20.0	30.0

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#86

Perylene-d12

Concen: 20.00 ng

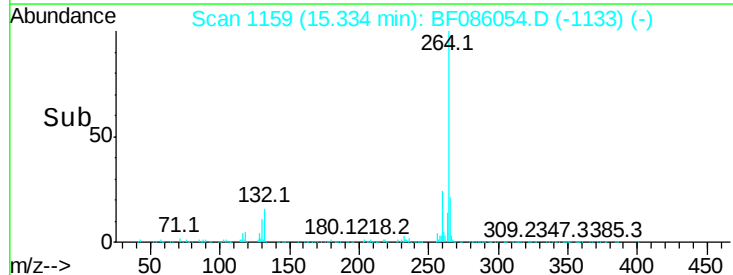
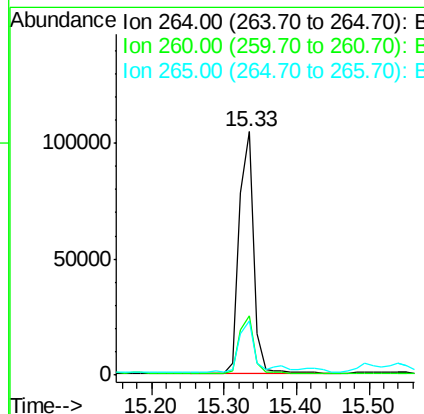
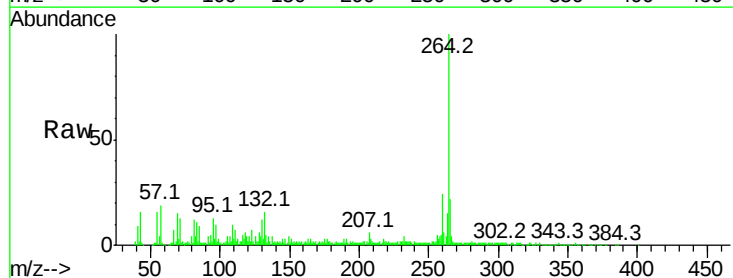
RT: 15.33 min Scan# 1159

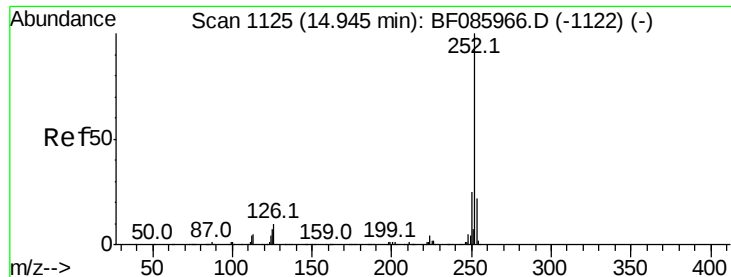
Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Tgt Ion:	264	Resp:	144910
Ion Ratio	Lower	Upper	
264	100		
260	24.3	19.4	29.2
265	22.4	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 18.38 ng m

RT: 14.93 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

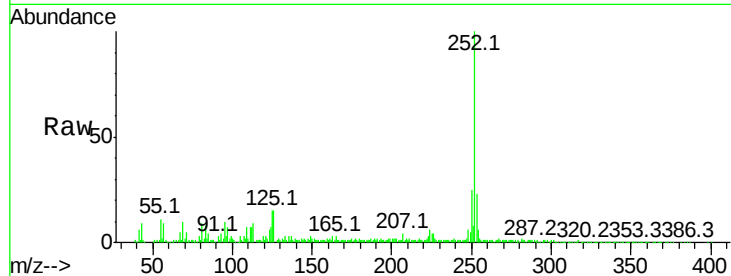
ClientSampleId :

L-P-C-SOIL-PILE1

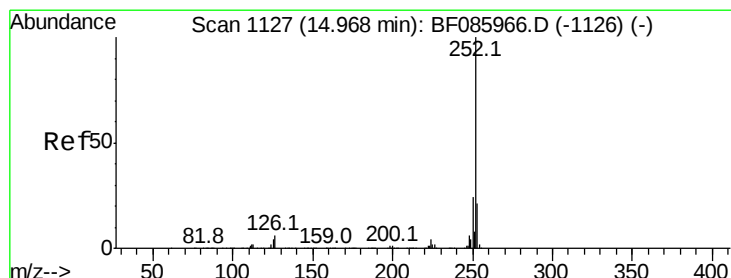
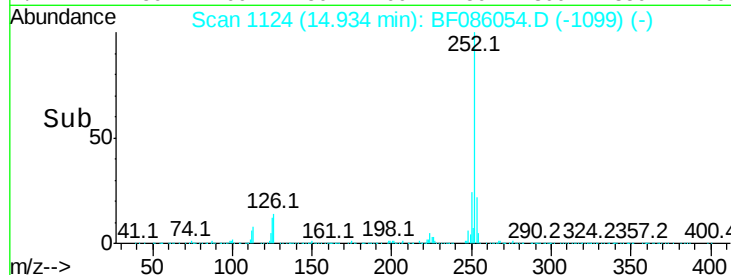
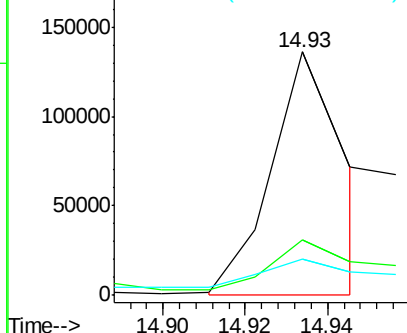
Tot Ion:	252	Resp:	167528
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.6	26.4
125	14.7	10.3	15.5

Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.23 ng m

RT: 14.95 min Scan# 1125

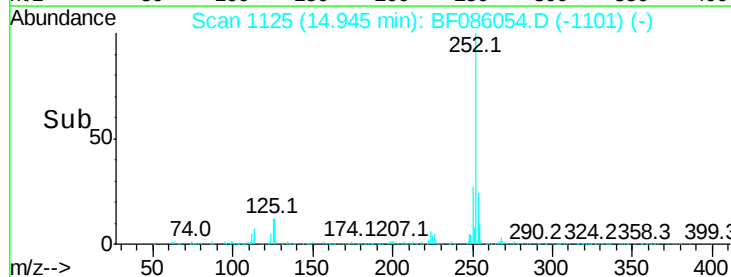
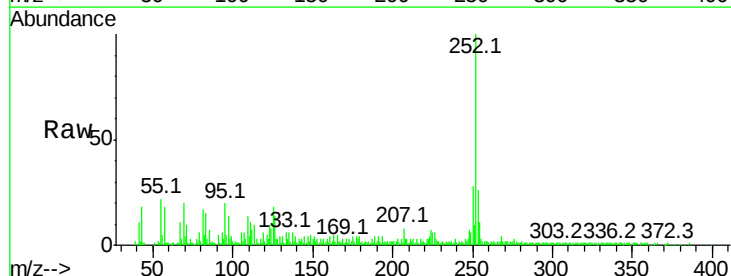
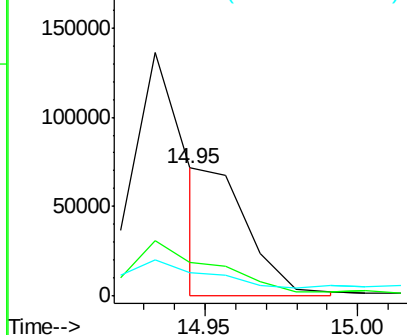
Delta R.T. -0.02 min

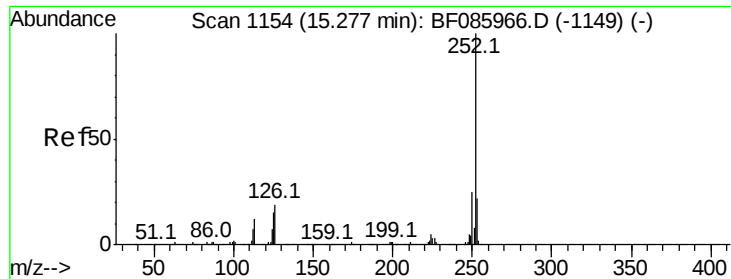
Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Tgt Ion:	252	Resp:	66472
Ion Ratio	Lower	Upper	
252	100		
253	26.1	17.8	26.6
125	17.9	7.7	11.5#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 13.62 ng

RT: 15.28 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Instrument :

BNA_F

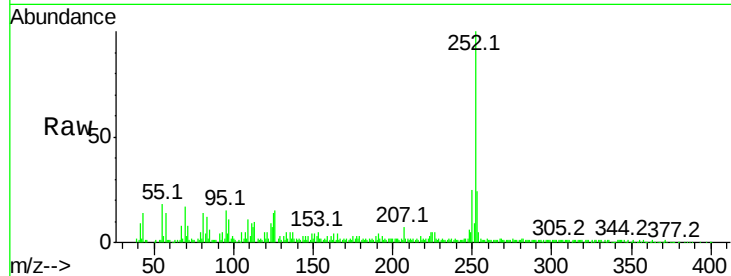
ClientSampleId :

L-P-C-SOIL-PILE1

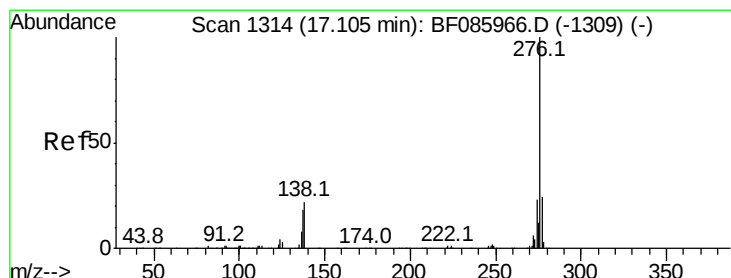
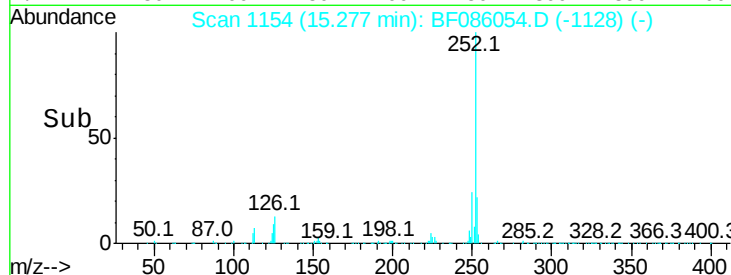
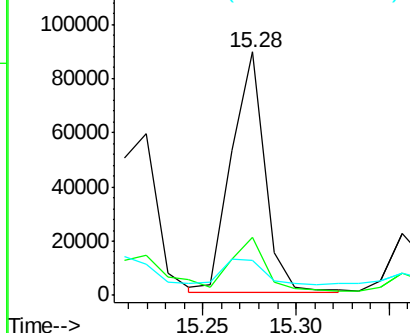
Tot Ion:	252	Resp:	110019
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.4	26.0
125	14.2	10.3	15.5

Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 9.91 ng

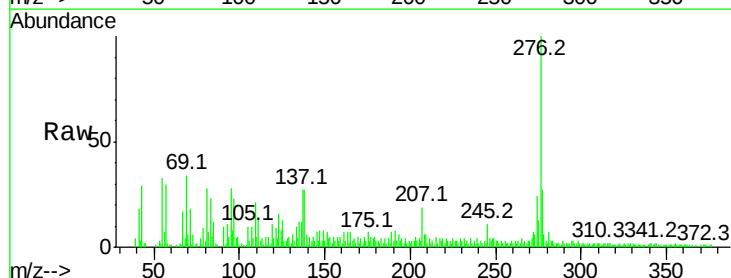
RT: 17.11 min Scan# 1314

Delta R.T. 0.00 min

Lab File: BF086054.D

Acq: 4 Apr 2016 23:06

Tgt Ion:	276	Resp:	62324
Ion Ratio	Lower	Upper	
276	100		
277	26.5	18.8	28.2
138	27.1	22.6	34.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

