

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF083116\
 Data File : BF089961.D
 Acq On : 31 Aug 2016 20:17
 Operator : UM/SJ
 Sample : H4635-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 11FT-SOIL

Manual Integrations
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 9/1/2016 11:54:38 AM

Quant Time: Sep 01 03:15:52 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 31 11:55:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	202229	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	722268	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	347848	20.00	ng	0.00
63) Phenanthrene-d10	11.14	188	520701	20.00	ng	0.00
75) Chrysene-d12	13.77	240	363386	20.00	ng	0.01
86) Perylene-d12	15.12	264	487141	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.22	112	1547400	122.48	ng	0.01
7) Phenol-d6	6.28	99	1880303	122.48	ng	0.01
23) Nitrobenzene-d5	7.21	82	1352221	108.58	ng	0.00
41) 2,4,6-Tribromophenol	10.46	330	394223	114.87	ng	0.00
44) 2-Fluorobiphenyl	9.00	172	1982900	93.58	ng	0.00
78) Terphenyl-d14	12.72	244	1183909	80.48	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.94	128	1040106	28.91	ng	100
37) 2-Methylnaphthalene	8.63	142	385991	16.23	ng	97
45) 1,1'-Biphenyl	9.10	154	161141	5.75	ng	96
48) Acenaphthylene	9.53	152	297482	9.08	ng	98
49) Dimethylphthalate	9.39	163	773752	30.78	ng	100
51) Acenaphthene	9.70	154	737883	35.55	ng	100
54) Dibenzofuran	9.87	168	775585	27.88	ng	92
57) Fluorene	10.22	166	964844	47.47	ng	98
70) Phenanthrene	11.18	178	4653633	179.47	ng	98
71) Anthracene	11.22	178	2067785	78.62	ng	100
72) Carbazole	11.37	167	833716	33.81	ng	99
74) Fluoranthene	12.36	202	5572104	205.05	ng	96
77) Pyrene	12.58	202	5223098m	203.86	ng	
80) Benzo(a)anthracene	13.76	228	3596134	161.58	ng	96
82) Chrysene	13.81	228	2352772	113.17	ng	97
83) Bis(2-ethylhexyl)phthalate	13.77	149	39624	2.77	ng	99
85) Indeno(1,2,3-cd)pyrene	16.37	276	1664987	108.32	ng	94
87) Benzo(b)fluoranthene	14.77	252	3620295m	118.63	ng	
88) Benzo(k)fluoranthene	14.79	252	1169072m	45.14	ng	
89) Benzo(a)pyrene	15.09	252	2859983	109.38	ng	96
90) Dibenzo(a,h)anthracene	16.38	278	574103	29.97	ng	93
91) Benzo(g,h,i)perylene	16.74	276	1513668	78.50	ng	96

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

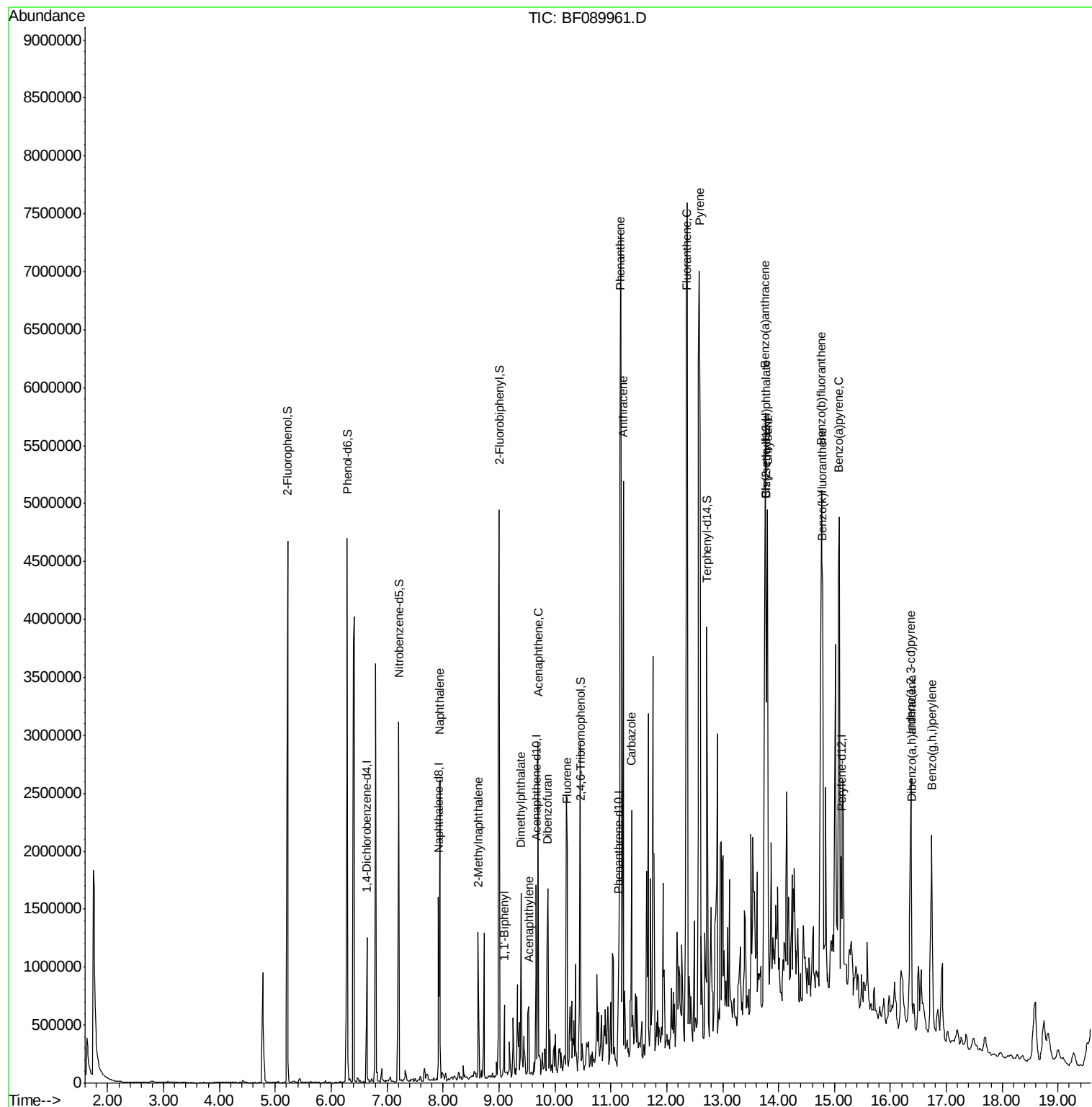
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF083116\
Data File : BF089961.D
Acq On : 31 Aug 2016 20:17
Operator : UM/SJ
Sample : H4635-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

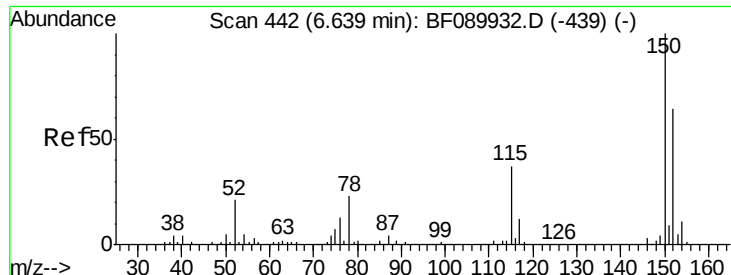
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 442

Delta R.T. -0.00 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

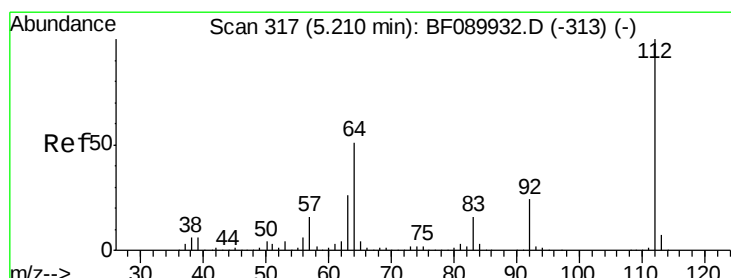
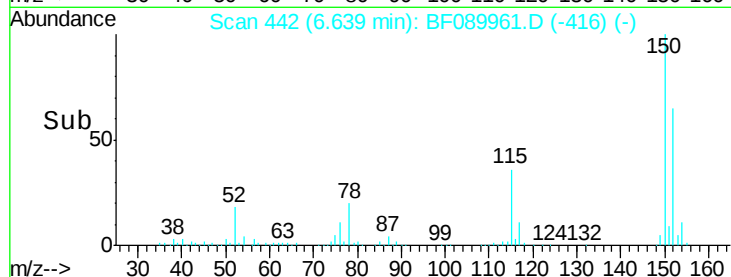
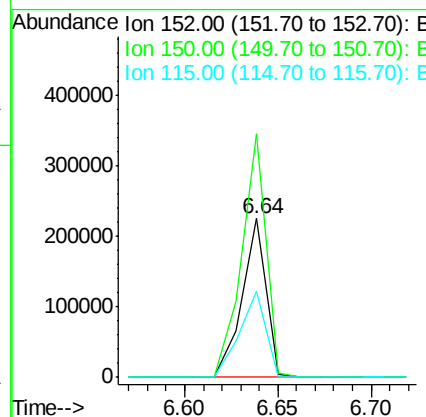
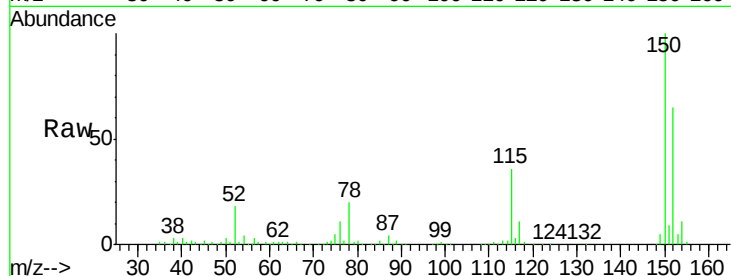
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.1	127.4	191.2
115	54.4	46.3	69.5

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#5

2-Fluorophenol

Concen: 122.48 ng

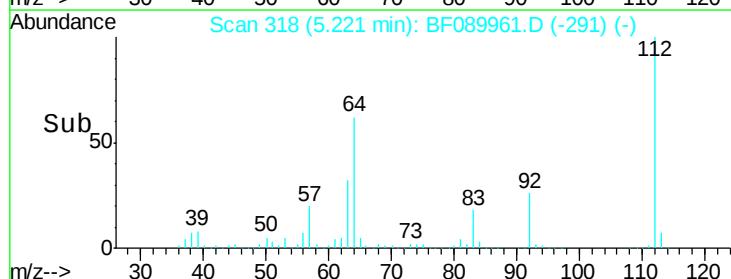
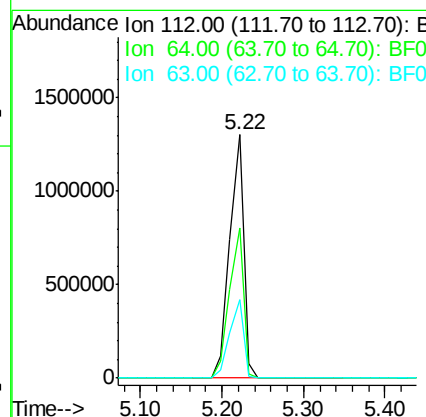
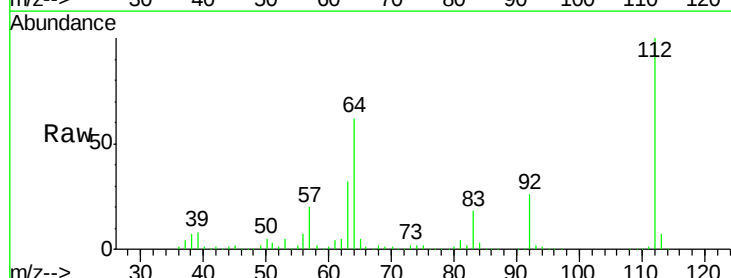
RT: 5.22 min Scan# 318

Delta R.T. 0.01 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	41.1	61.7
63	32.2	21.2	31.8





#7

Phenol-d6

Concen: 122.48 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.01 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

ClientSampleId :

11FT-SOIL

Tgt Ion: 99 Resp: 1880303

Ion Ratio Lower Upper

99 100

42 23.3 18.6 27.8

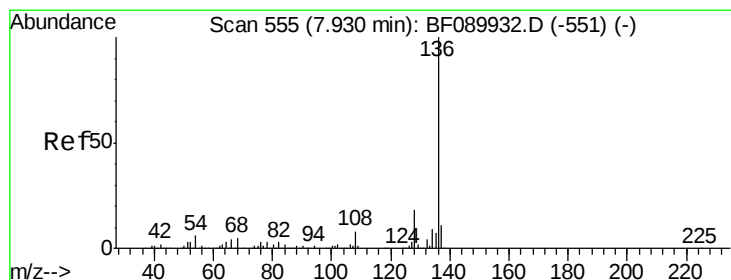
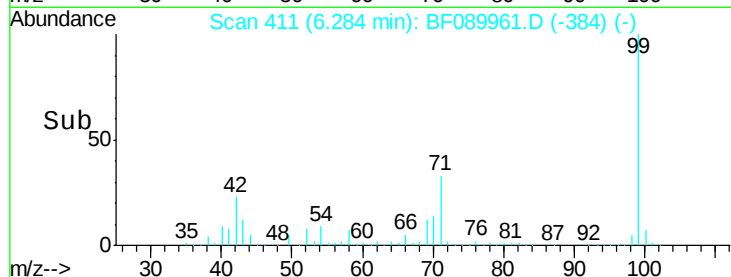
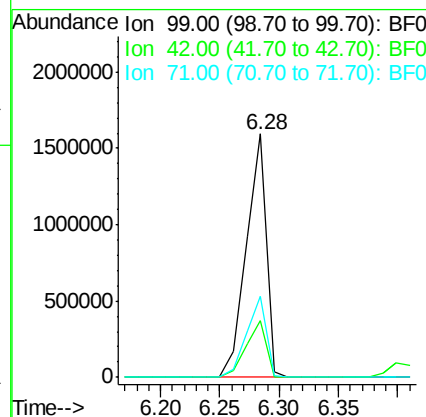
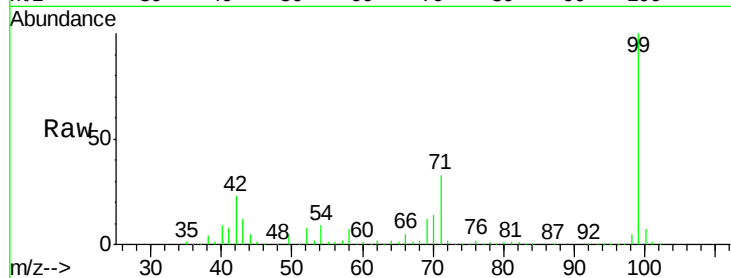
71 33.3 25.8 38.6

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.01 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Tgt Ion: 136 Resp: 722268

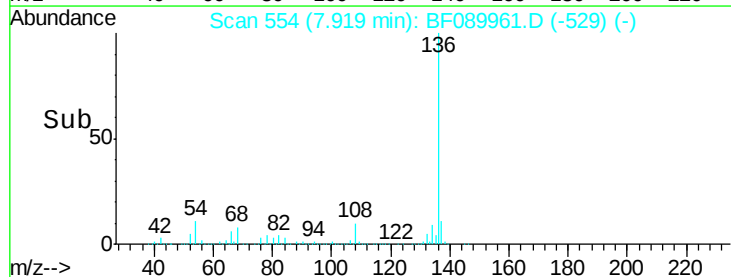
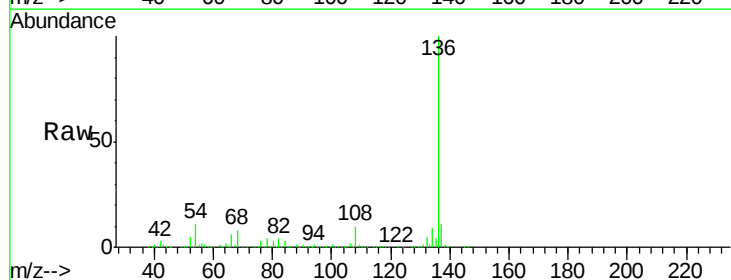
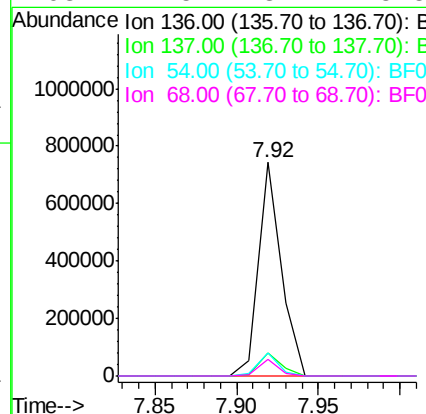
Ion Ratio Lower Upper

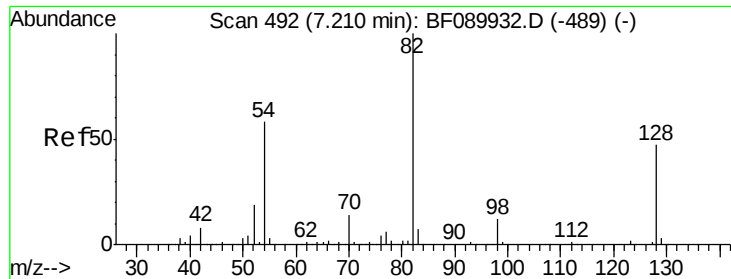
136 100

137 11.0 8.3 12.5

54 10.9 4.8 7.2#

68 7.5 3.7 5.5#





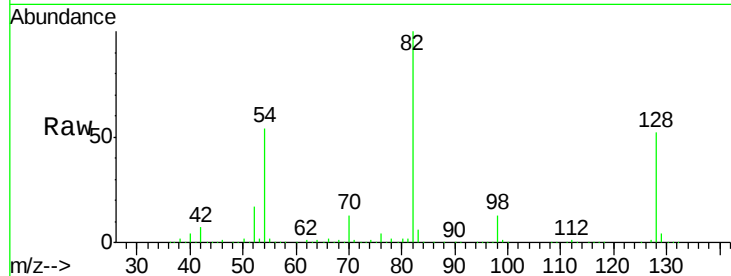
#23
Nitrobenzene-d5
Concen: 108.58 ng
RT: 7.21 min Scan# 492
Delta R.T. -0.00 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
BNA_F
ClientSampleId :
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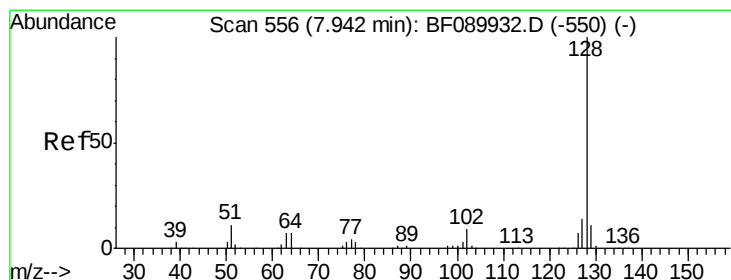
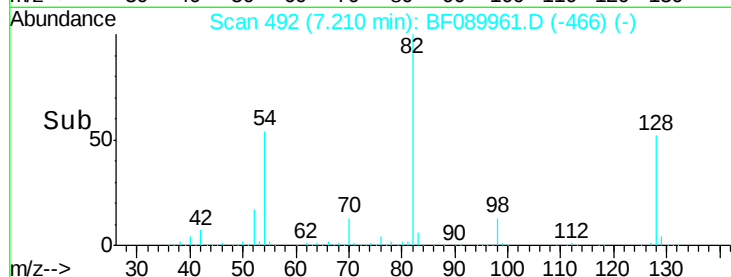
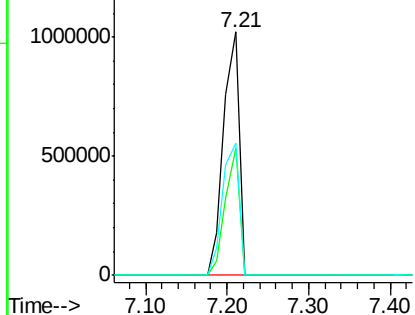
Tgt Ion: 82 Resp: 1352221
Ion Ratio Lower Upper
82 100
128 52.1 37.8 56.8
54 54.2 46.9 70.3

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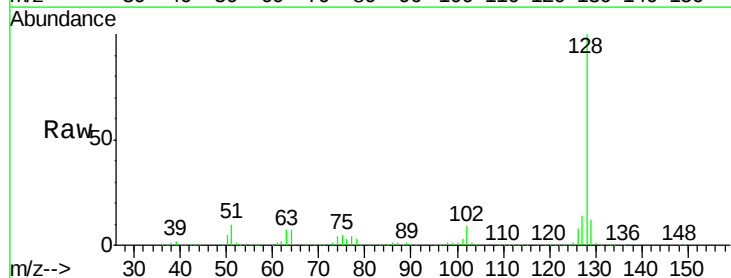


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

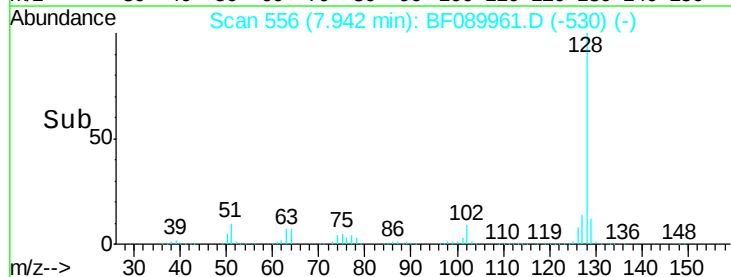
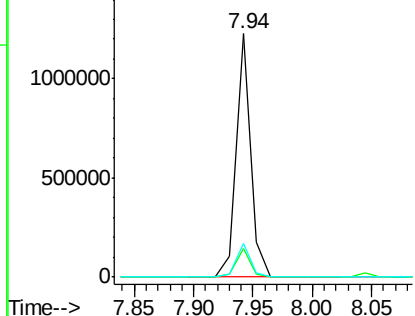


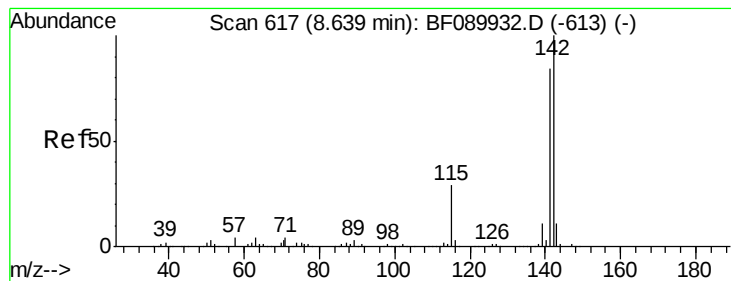
#31
Naphthalene
Concen: 28.91 ng
RT: 7.94 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion: 128 Resp: 1040106
Ion Ratio Lower Upper
128 100
129 11.6 9.4 14.0
127 13.6 10.7 16.1



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





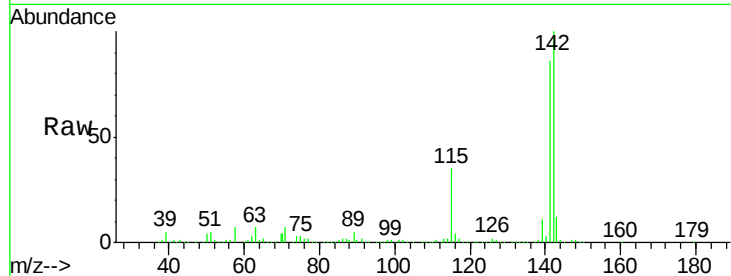
#37
 2-Methylnaphthalene
 Concen: 16.23 ng
 RT: 8.63 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF089961.D
 Acq: 31 Aug 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
142	100	385991		
141	86.1	68.3	102.5	
115	35.0	23.8	35.8	

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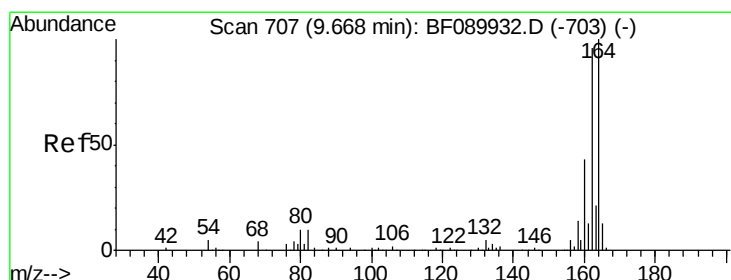
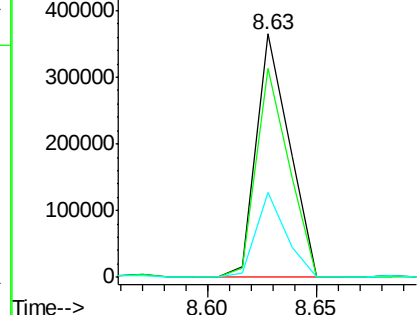
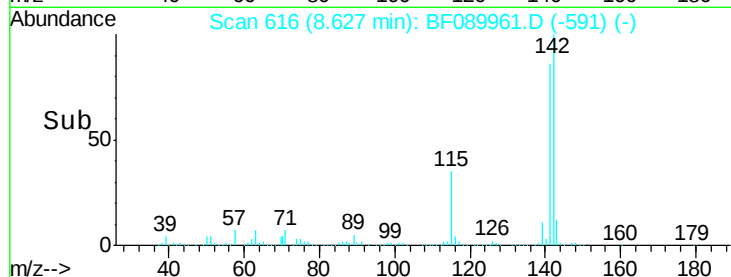


Abundance

Ion 142.00 (141.70 to 142.70): E

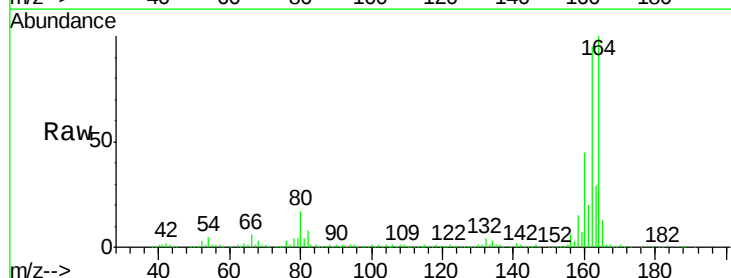
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.67 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: BF089961.D
 Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	347848		
162	95.4	77.1	115.7	
160	45.1	35.3	52.9	

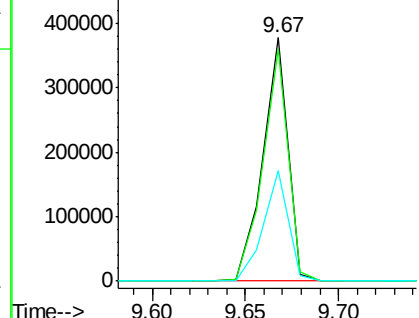
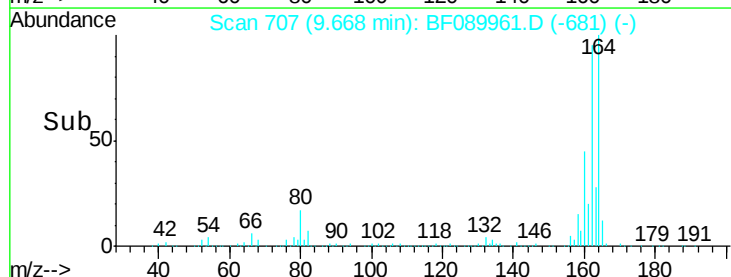


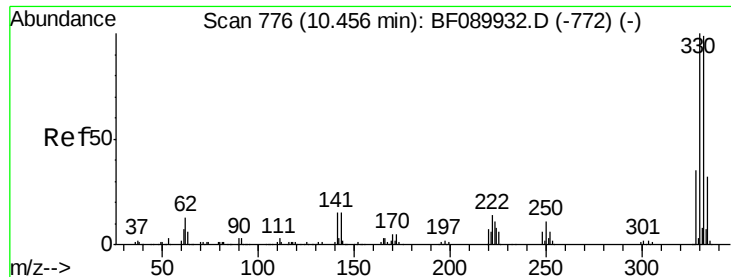
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





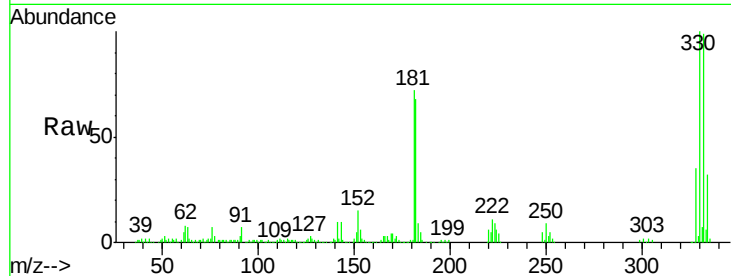
#41
 2,4,6-Tribromophenol
 Concen: 114.87 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.00 min
 Lab File: BF089961.D
 Acq: 31 Aug 2016 20:17

Instrument :
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 ClientSampleId :
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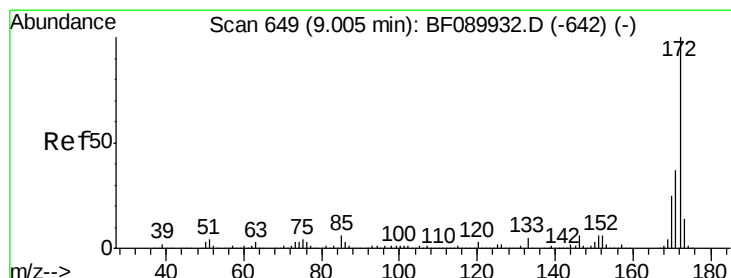
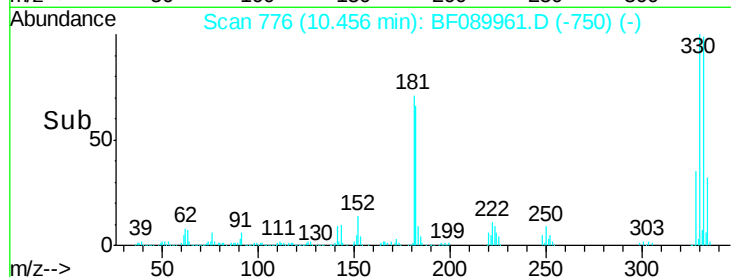
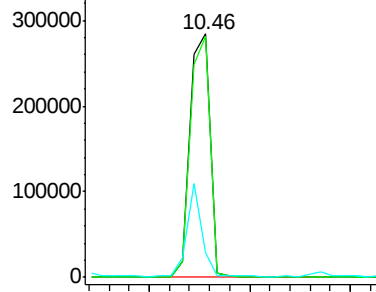
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	394223		
332	97.1	78.6	117.8	
141	29.0	23.3	34.9	

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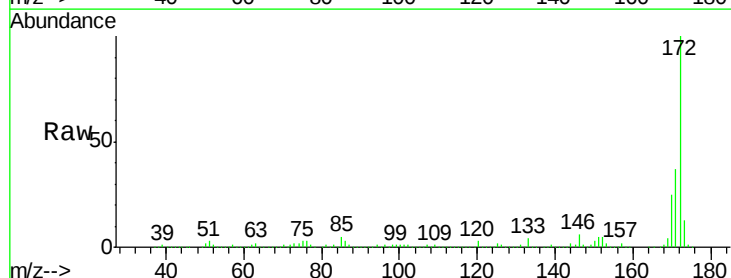


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

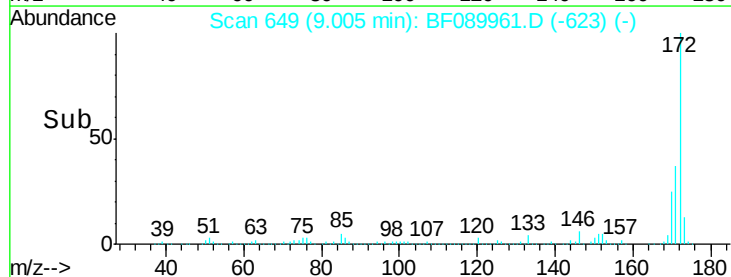
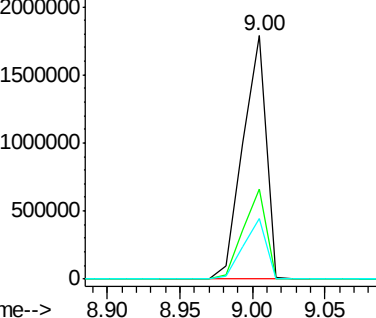


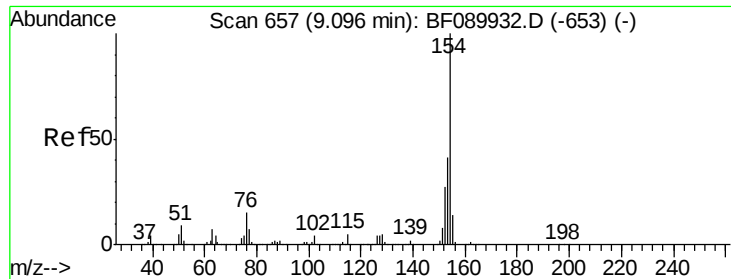
#44
 2-Fluorobiphenyl
 Concen: 93.58 ng
 RT: 9.00 min Scan# 649
 Delta R.T. -0.00 min
 Lab File: BF089961.D
 Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1982900		
171	36.8	29.4	44.2	
170	24.7	20.1	30.1	



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





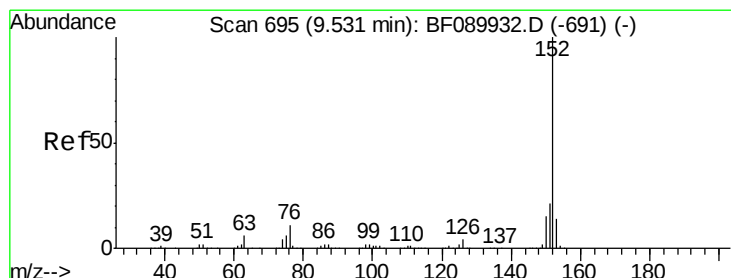
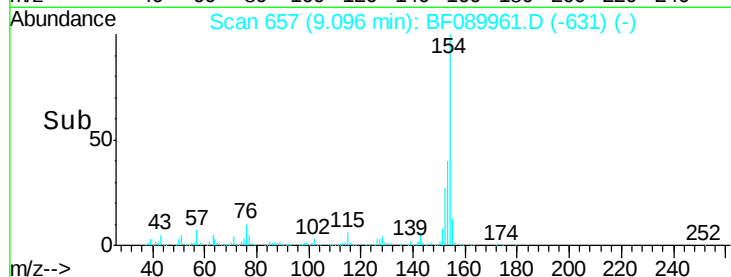
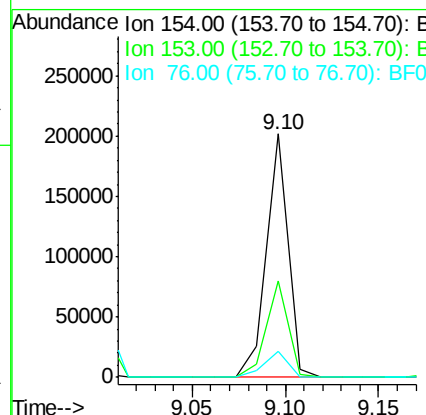
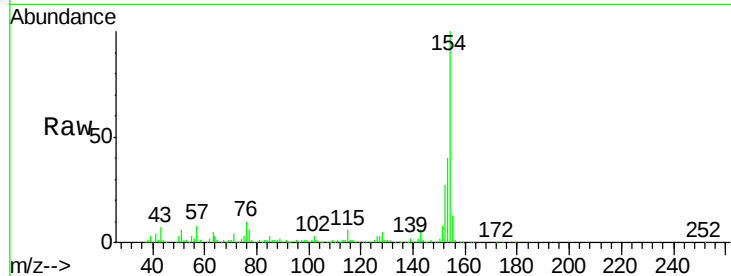
#45
1,1'-Biphenyl
Concen: 5.75 ng
RT: 9.10 min Scan# 657
Delta R.T. 0.00 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
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Tgt Ion	Ratio	Resp	Lower	Upper
154	100	161141		
153	39.9	20.6	60.6	
76	10.4	0.0	34.9	

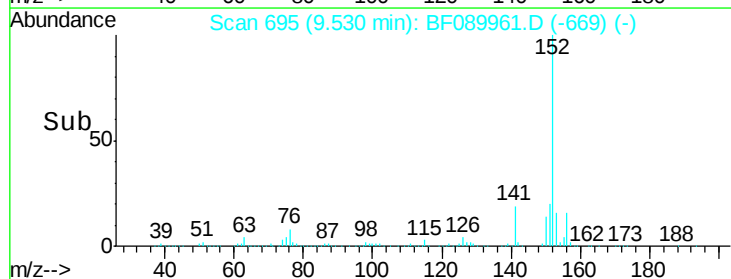
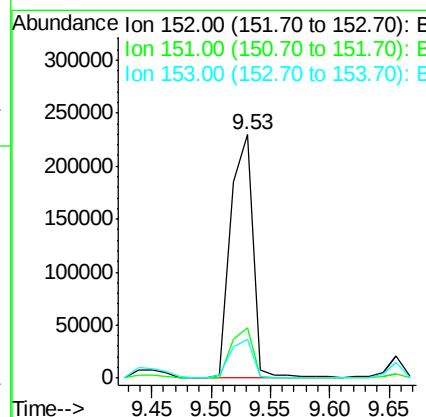
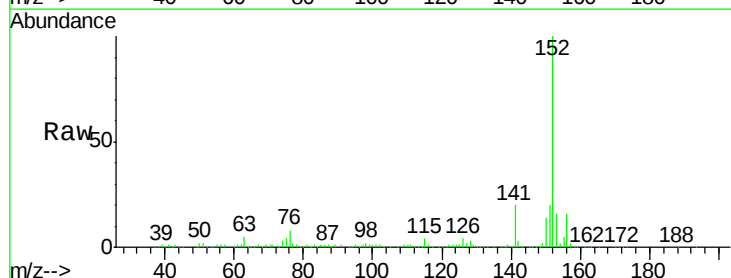
Manual Integrations
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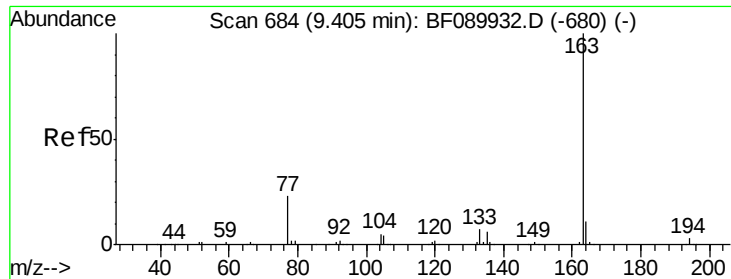
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#48
Acenaphthylene
Concen: 9.08 ng
RT: 9.53 min Scan# 695
Delta R.T. -0.00 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	297482		
151	20.4	16.7	25.1	
153	15.9	11.6	17.4	





#49

Dimethylphthalate

Concen: 30.78 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

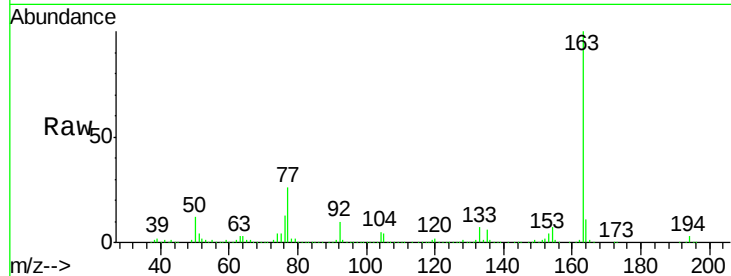
ClientSampleId :

11FT-SOIL

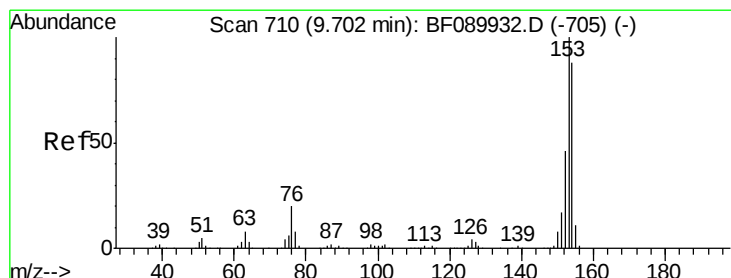
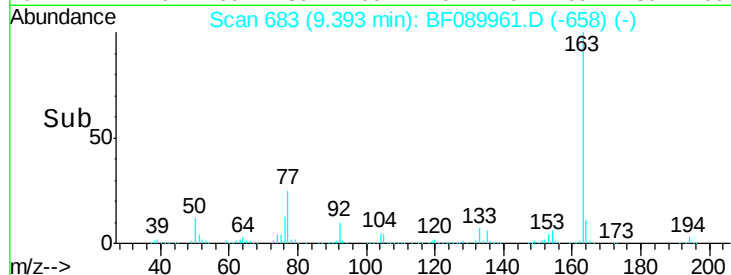
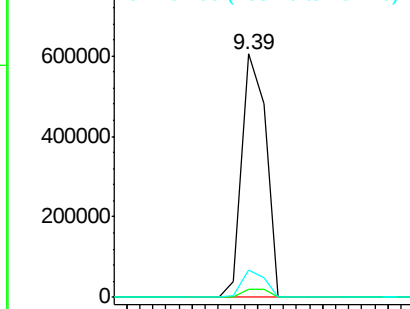
Tgt Ion:	163	Resp:	773752
Ion Ratio		Lower	Upper
163	100		
194	3.2	2.7	4.1
164	11.3	9.0	13.4

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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



#51

Acenaphthene

Concen: 35.55 ng

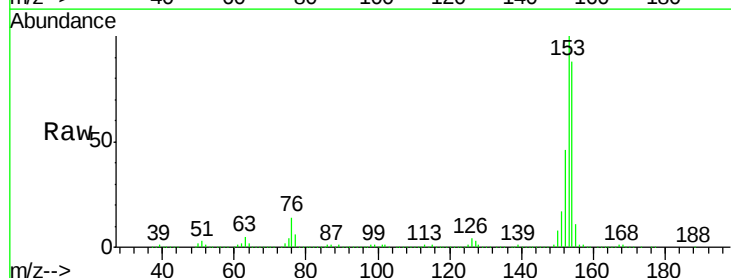
RT: 9.70 min Scan# 710

Delta R.T. -0.00 min

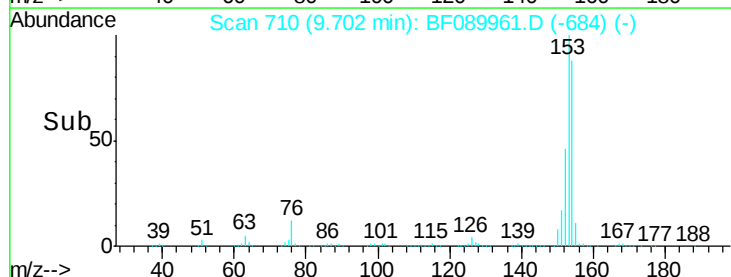
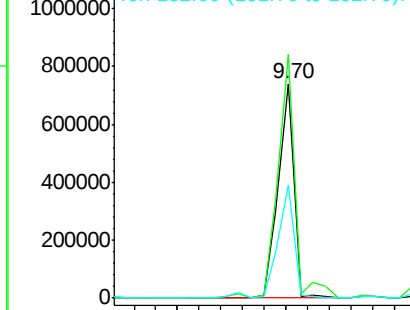
Lab File: BF089961.D

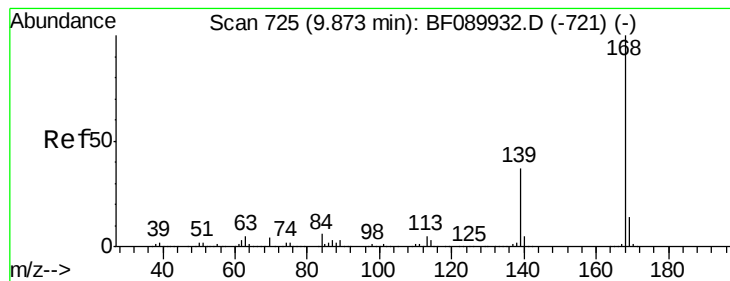
Acq: 31 Aug 2016 20:17

Tgt Ion:	154	Resp:	737883
Ion Ratio		Lower	Upper
154	100		
153	113.5	90.6	135.8
152	52.5	42.4	63.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 27.88 ng

RT: 9.87 min Scan# 725

Delta R.T. -0.00 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

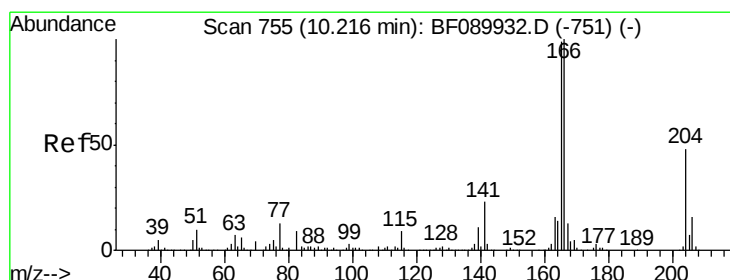
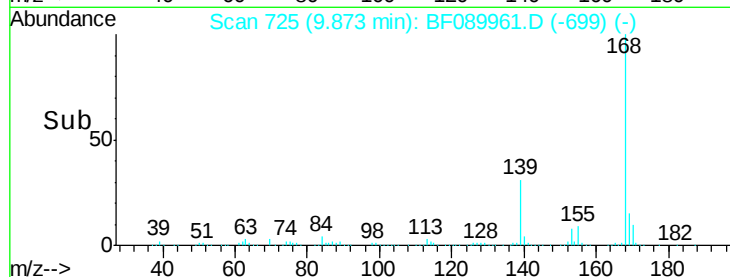
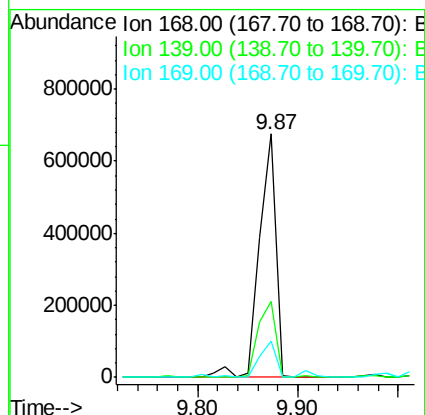
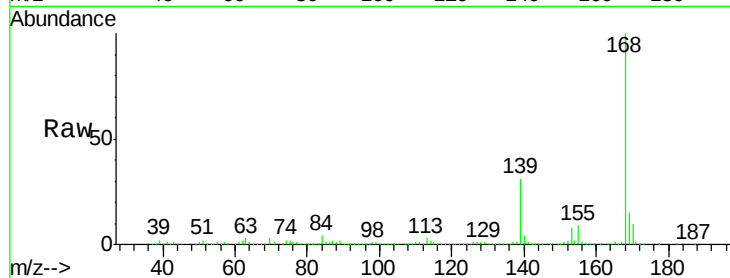
ClientSampleId :

11FT-SOIL

Tgt Ion:	168	Resp:	775585
Ion Ratio	Lower	Upper	
168	100		
139	31.0	29.5	44.3
169	14.6	10.8	16.2

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#57

Fluorene

Concen: 47.47 ng

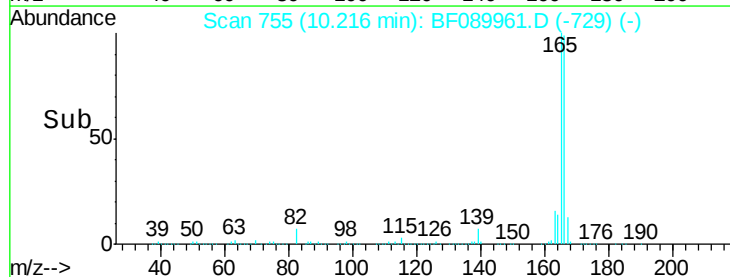
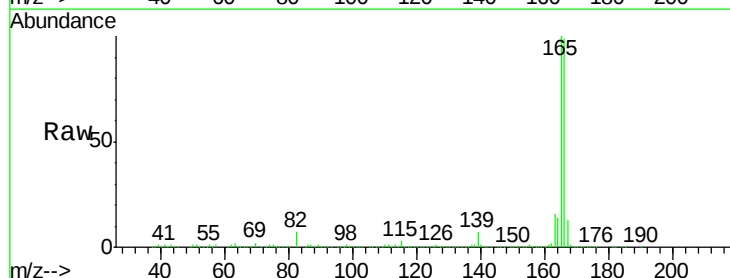
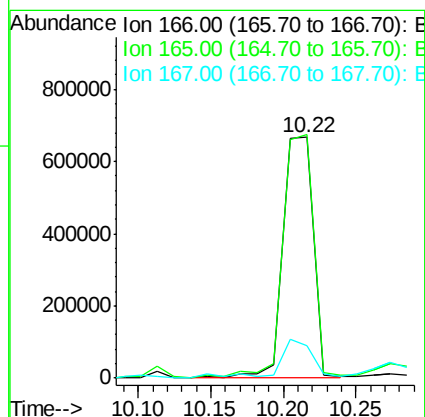
RT: 10.22 min Scan# 755

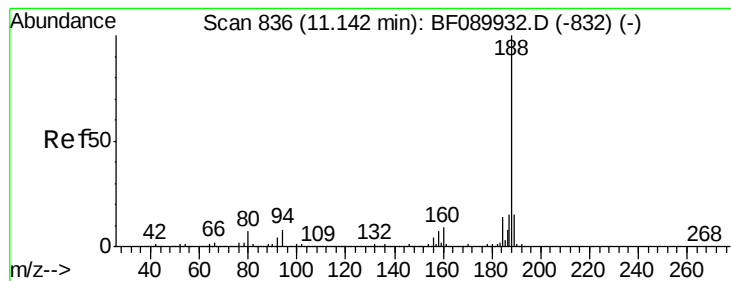
Delta R.T. 0.00 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Tgt Ion:	166	Resp:	964844
Ion Ratio	Lower	Upper	
166	100		
165	101.1	78.6	118.0
167	13.3	10.6	15.8





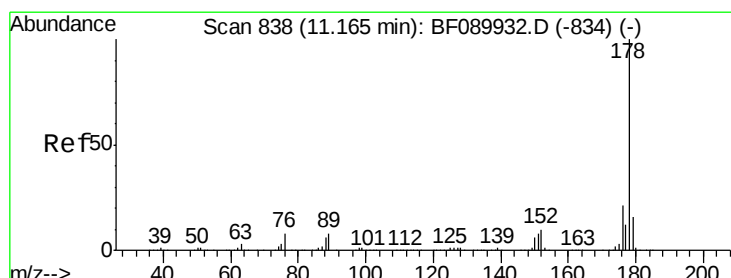
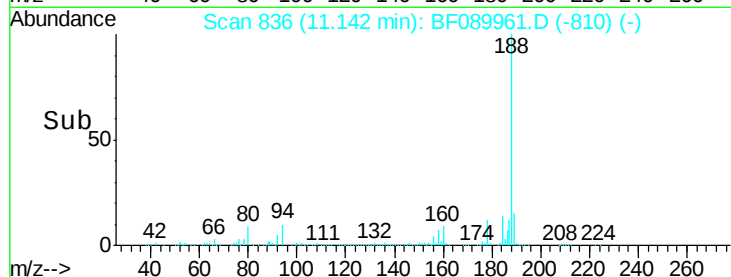
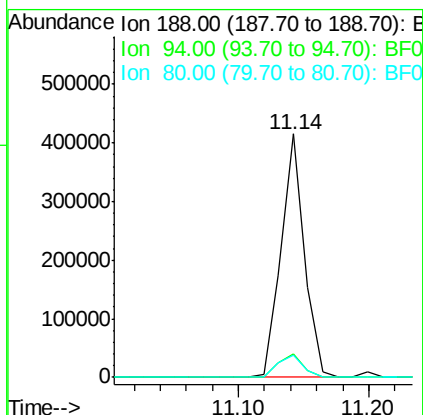
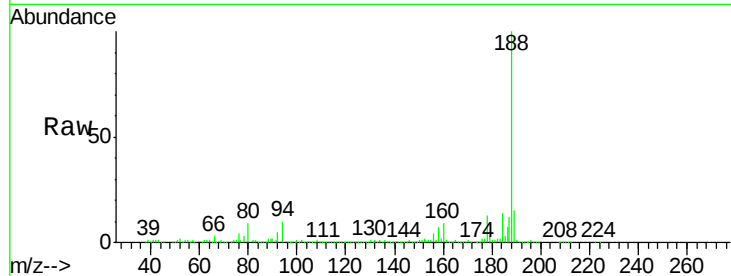
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.00 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOIL

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	520701		
94	9.7	5.9	8.9#	
80	9.3	5.8	8.8#	

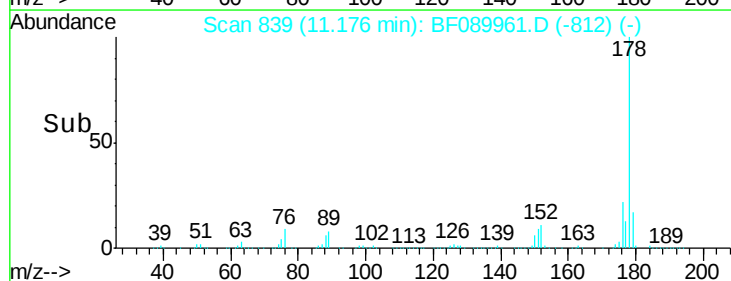
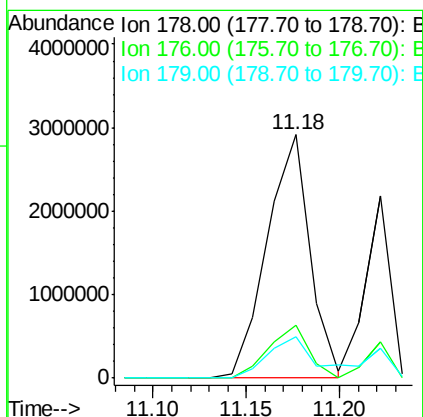
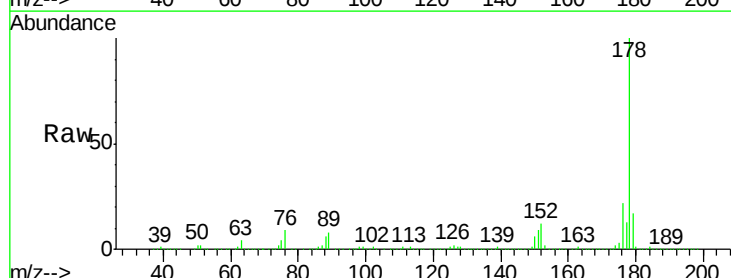
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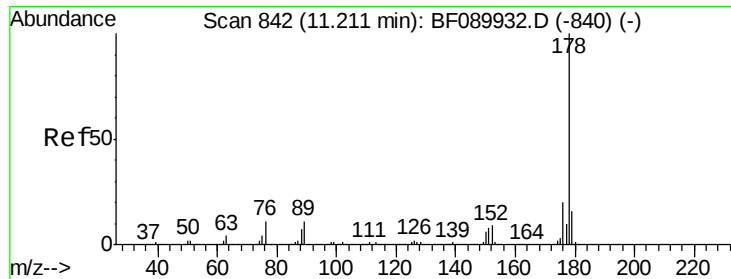
SOHIL
9/1/2016 11:54:38 AM



#70
Phenanthrene
Concen: 179.47 ng
RT: 11.18 min Scan# 839
Delta R.T. 0.01 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	4653633		
176	21.6	16.5	24.7	
179	16.9	12.8	19.2	





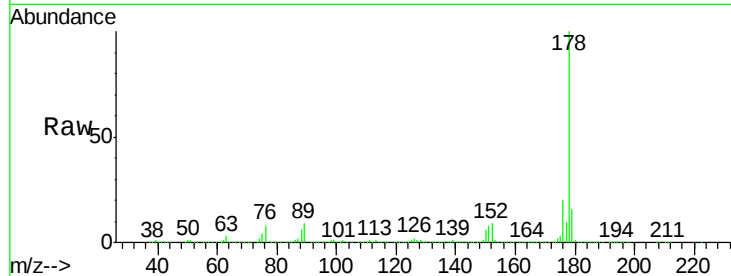
#71
 Anthracene
 Concen: 78.62 ng
 RT: 11.22 min Scan# 843
 Delta R.T. 0.01 min
 Lab File: BF089961.D
 Acq: 31 Aug 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
 11FT-SOIL

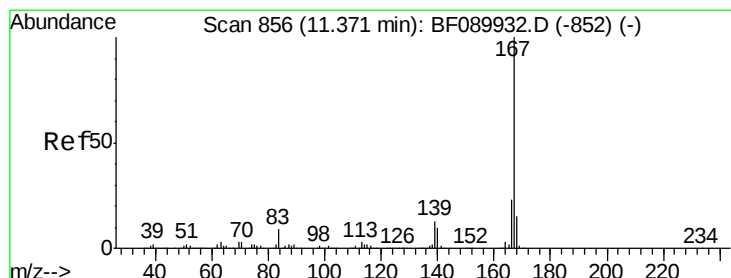
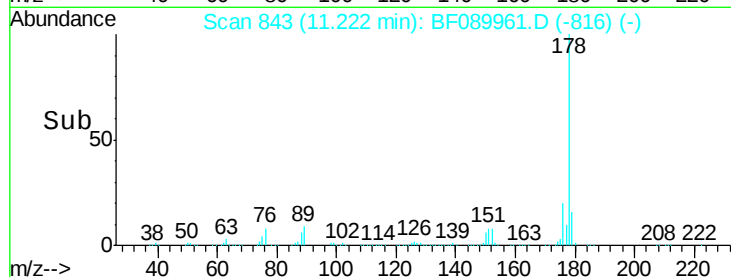
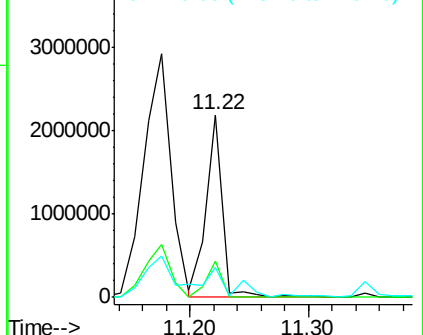
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	16.2	13.0	19.4

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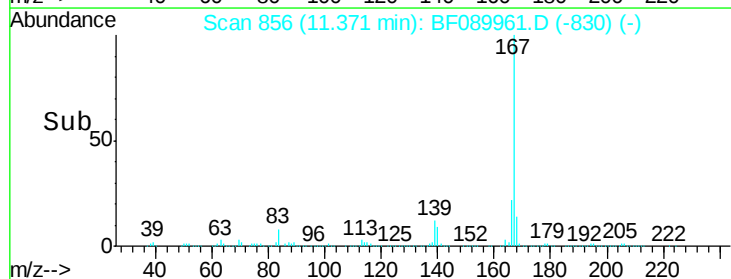
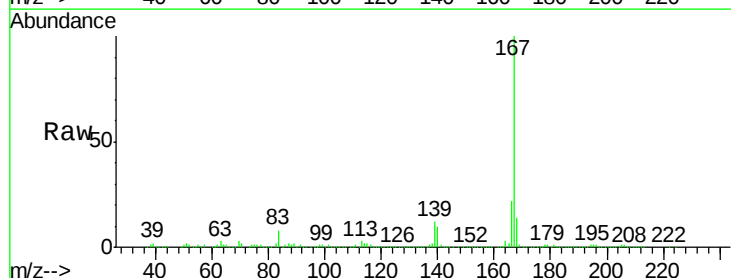
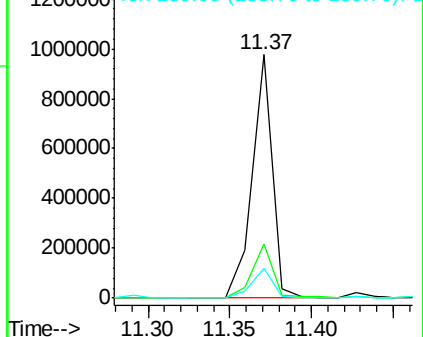
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

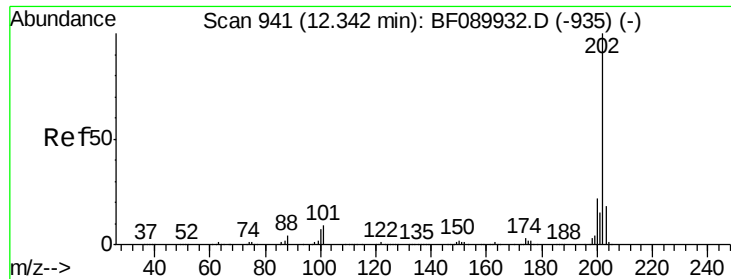


#72
 Carbazole
 Concen: 33.81 ng
 RT: 11.37 min Scan# 856
 Delta R.T. -0.00 min
 Lab File: BF089961.D
 Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.1	27.1
139	12.3	10.4	15.6

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 205.05 ng

RT: 12.36 min Scan# 943

Delta R.T. 0.02 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

ClientSampleId :

11FT-SOIL

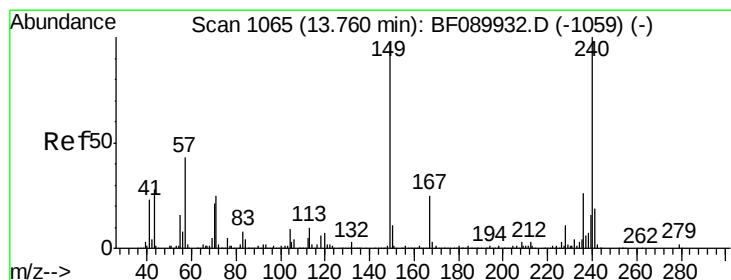
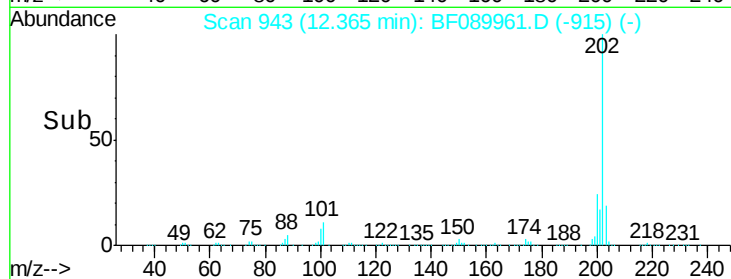
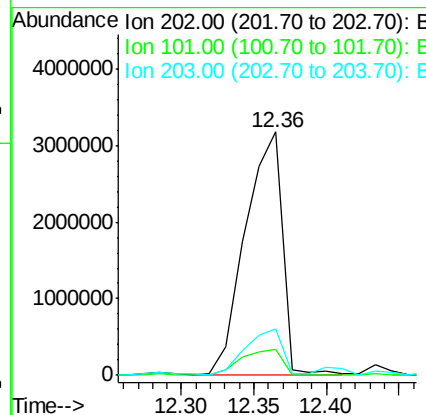
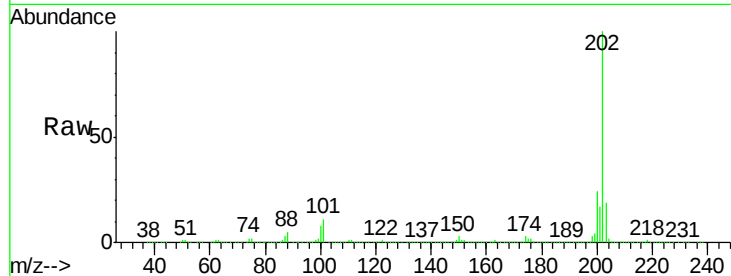
Tgt Ion:202 Resp: 5572104

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	28.5
203	19.4	0.0	38.0

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#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1066

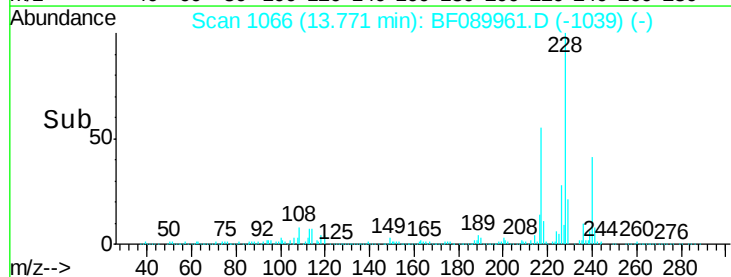
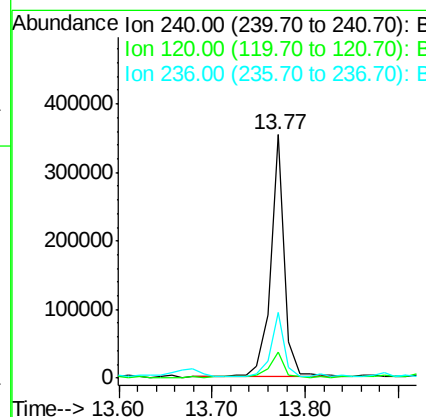
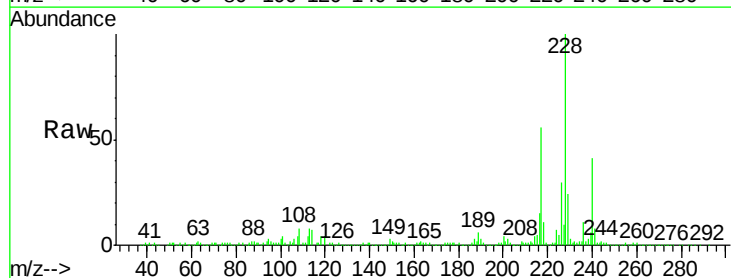
Delta R.T. 0.01 min

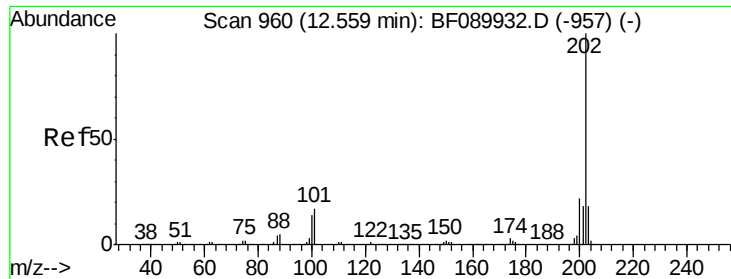
Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Tgt Ion:240 Resp: 363386

Ion	Ratio	Lower	Upper
240	100		
120	10.9	5.7	8.5#
236	26.8	21.3	31.9





#77

Pyrene

Concen: 203.86 ng m

RT: 12.58 min Scan# 962

Delta R.T. 0.02 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

ClientSampleId :

11FT-SOIL

Tgt Ion:202 Resp: 5223098

Ion Ratio Lower Upper

202 100

200 24.1 17.6 26.4

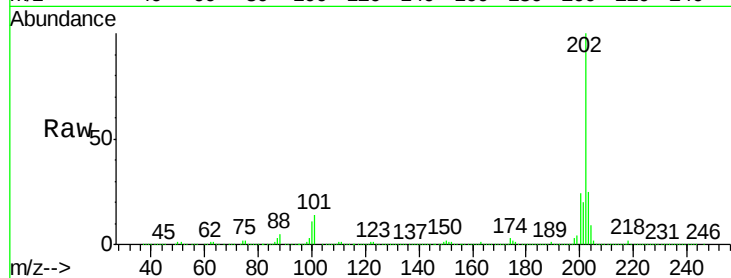
203 25.3 14.6 21.8#

Manual Integrations

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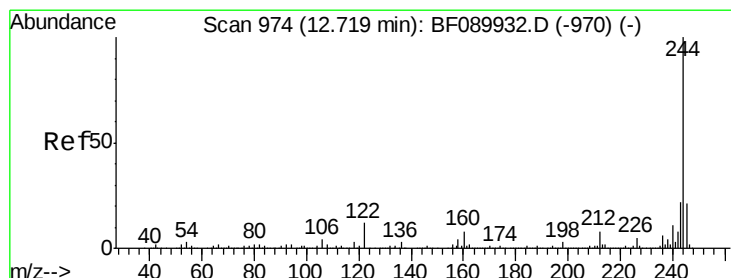
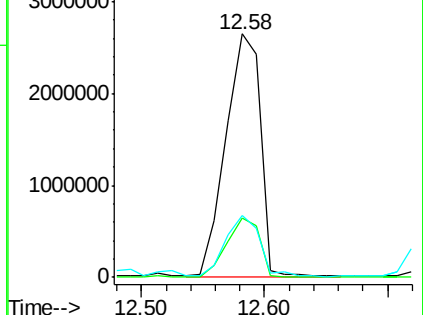
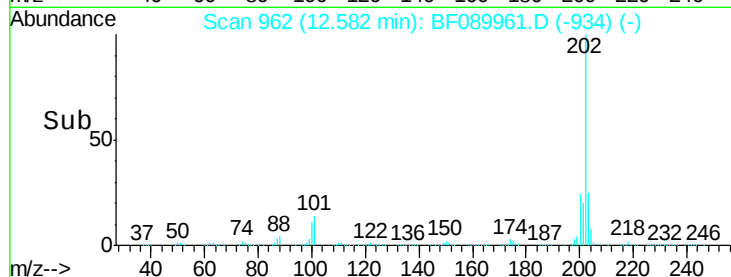
9/1/2016 11:54:38 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 80.48 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

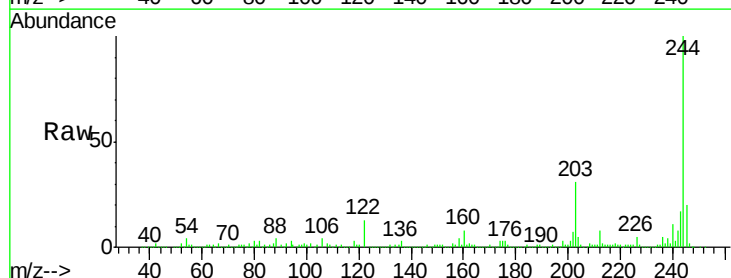
Tgt Ion:244 Resp: 1183909

Ion Ratio Lower Upper

244 100

212 7.6 6.1 9.1

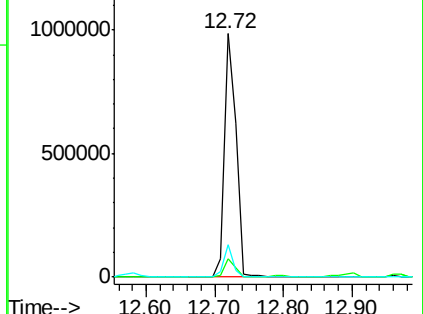
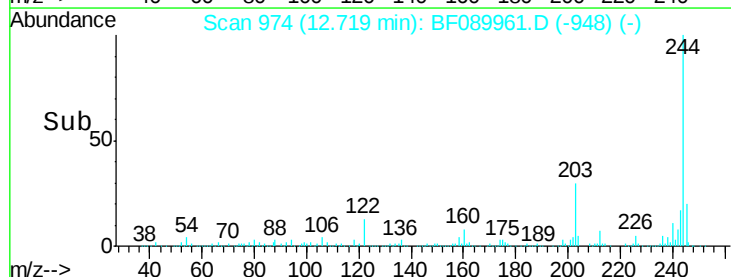
122 13.4 9.6 14.4

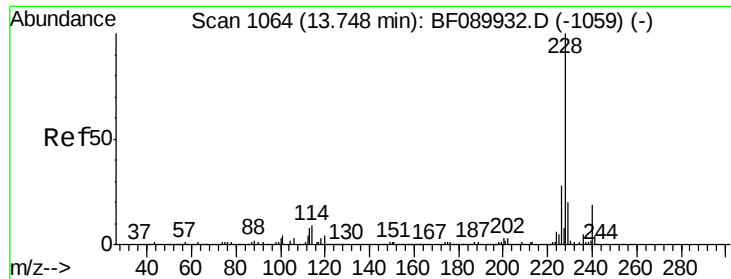


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





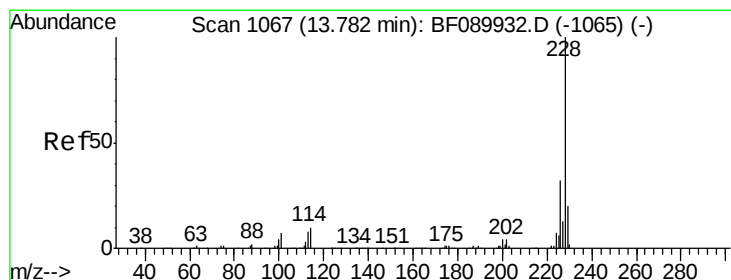
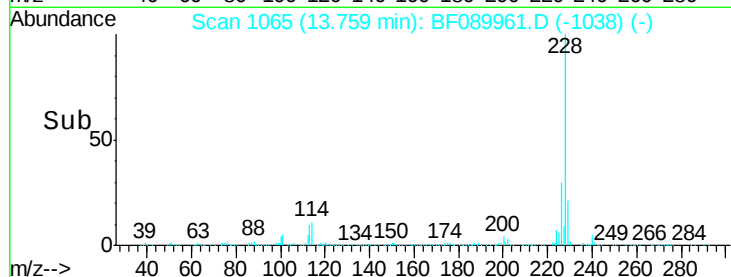
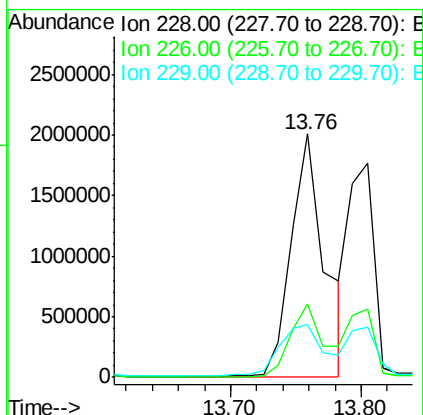
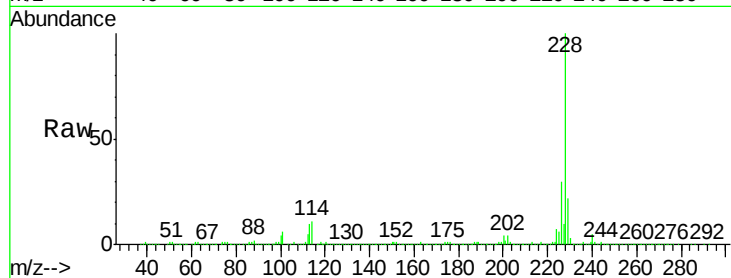
#80
Benzo(a)anthracene
Concen: 161.58 ng
RT: 13.76 min Scan# 1065
Delta R.T. 0.01 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
BNA_F
ClientSampled :
11FT-SOIL

Tgt Ion:228 Resp: 3596134
Ion Ratio Lower Upper
228 100
226 30.0 22.2 33.2
229 21.8 15.8 23.6

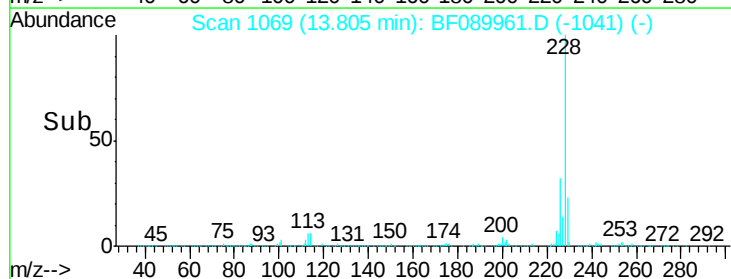
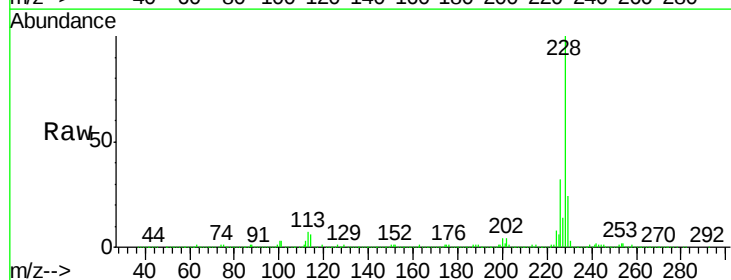
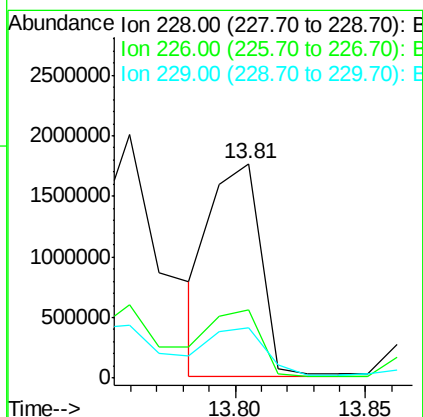
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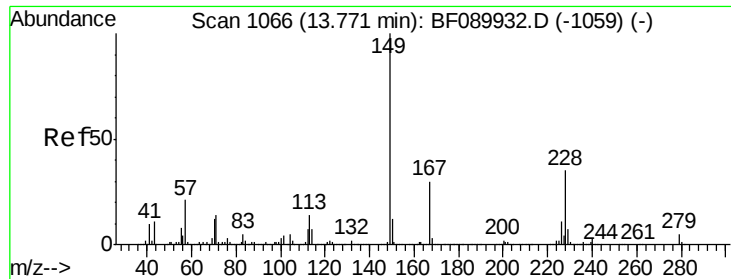
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#82
Chrysene
Concen: 113.17 ng
RT: 13.81 min Scan# 1069
Delta R.T. 0.02 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion:228 Resp: 2352772
Ion Ratio Lower Upper
228 100
226 31.9 25.2 37.8
229 23.6 16.2 24.2





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.77 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.00 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Instrument :

BNA_F

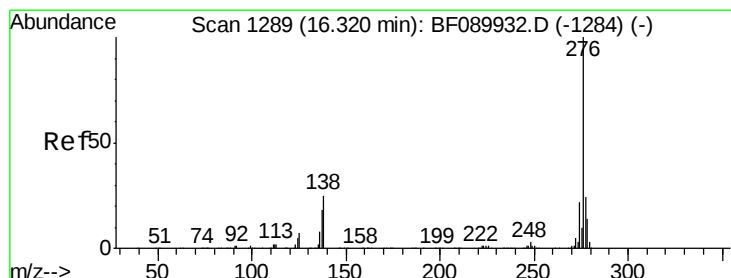
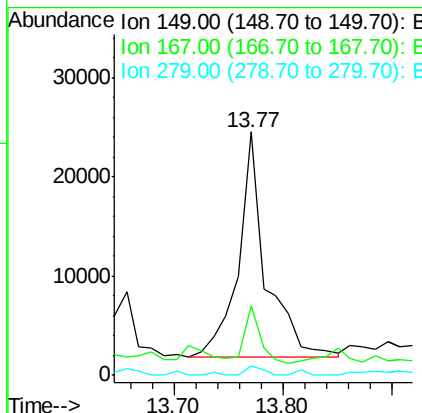
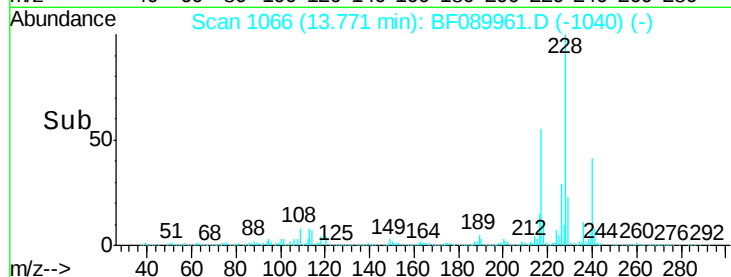
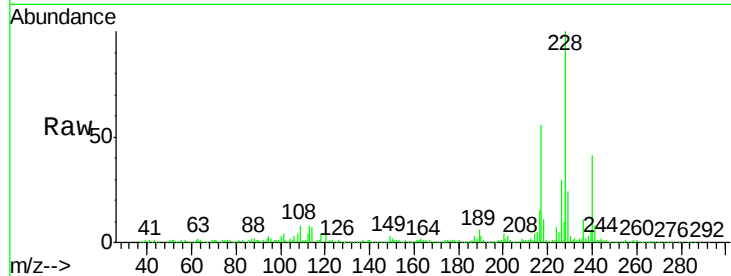
ClientSampleId :

11FT-SOIL

Tgt Ion:	149	Resp:	39624
Ion Ratio	Lower	Upper	
149	100		
167	28.7	23.6	35.4
279	3.9	3.4	5.2

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#85

Indeno(1,2,3-cd)pyrene

Concen: 108.32 ng

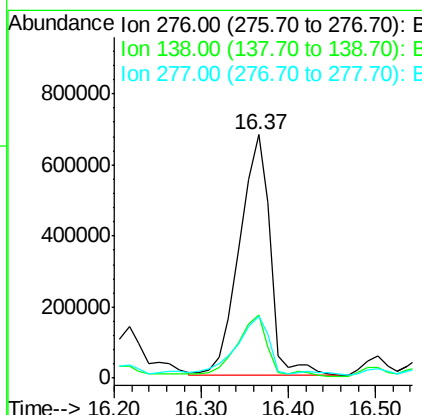
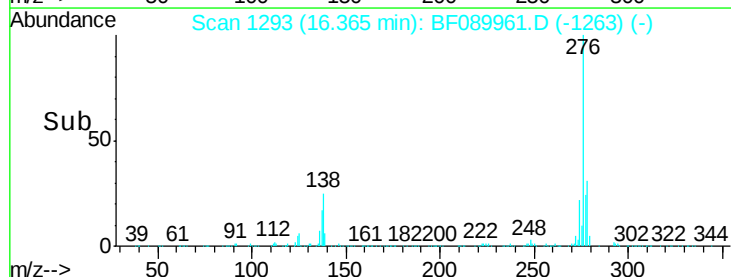
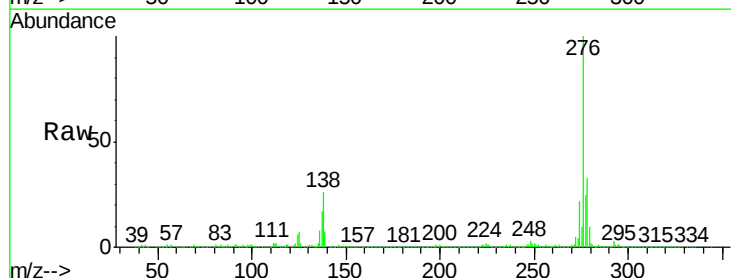
RT: 16.37 min Scan# 1293

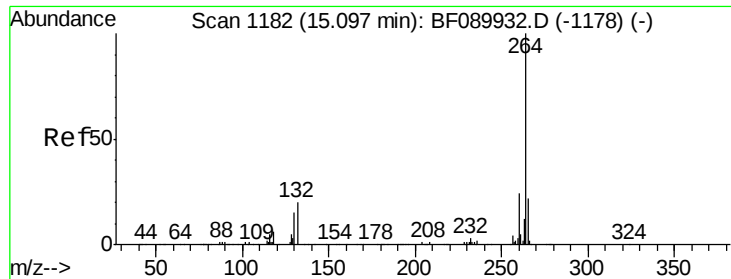
Delta R.T. 0.05 min

Lab File: BF089961.D

Acq: 31 Aug 2016 20:17

Tgt Ion:	276	Resp:	1664987
Ion Ratio	Lower	Upper	
276	100		
138	23.0	22.6	34.0
277	25.8	20.1	30.1





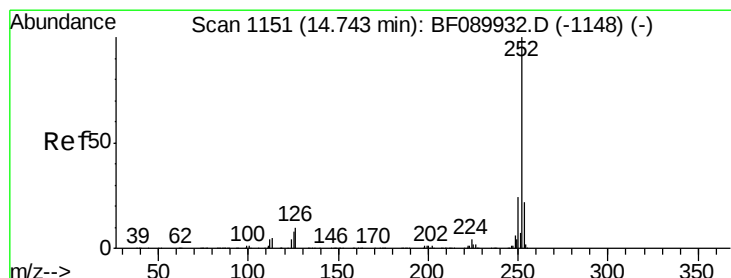
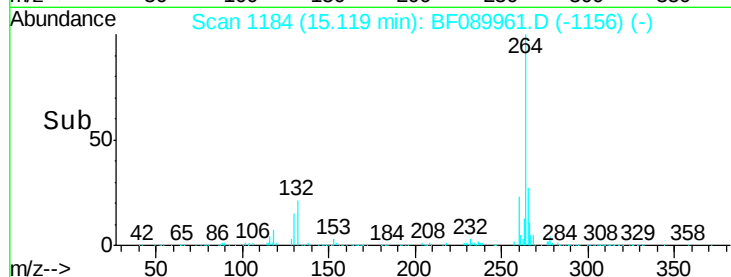
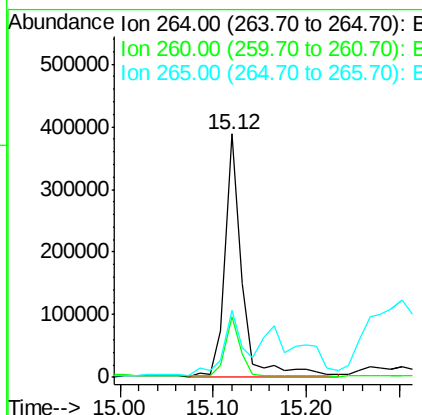
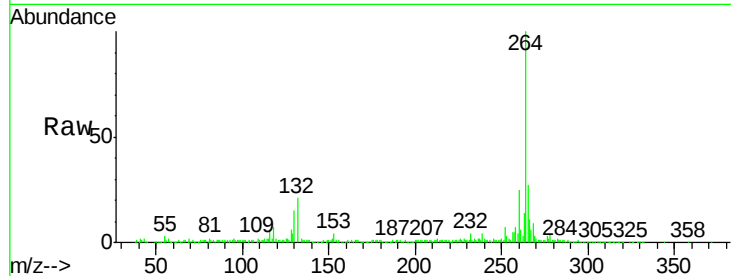
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. 0.02 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
BNA_F
ClientSampled :
11FT-SOIL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.4	29.0
265	27.4	17.4	26.2

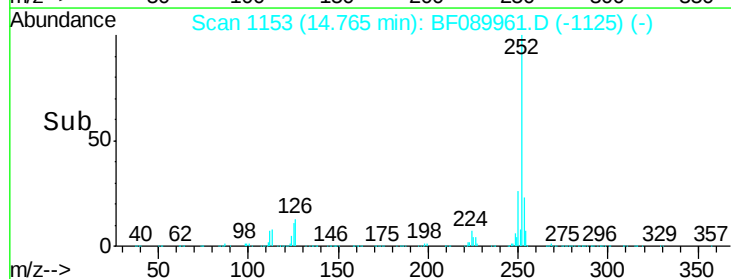
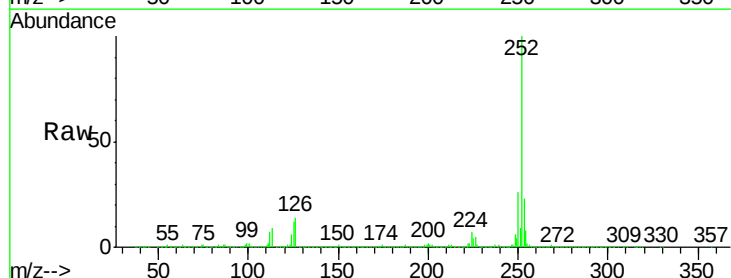
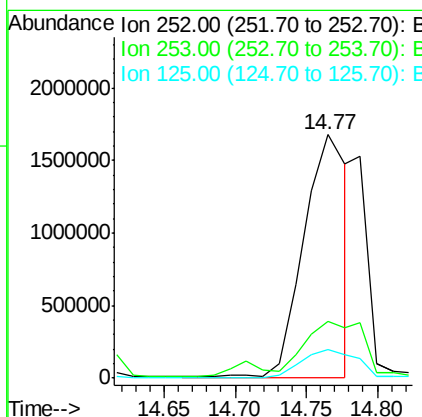
Manual Integrations
APPROVED

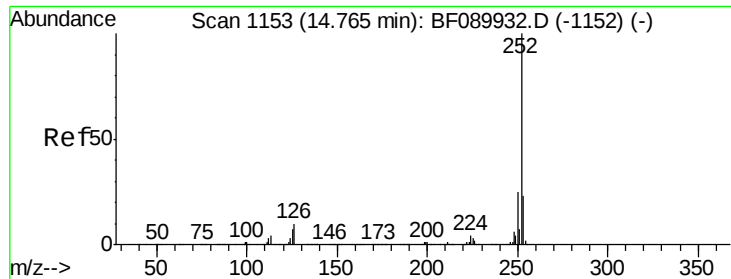
SOHIL
9/1/2016 11:54:38 AM



#87
Benzo(b)fluoranthene
Concen: 118.63 ng m
RT: 14.77 min Scan# 1153
Delta R.T. 0.02 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	11.7	5.7	8.5





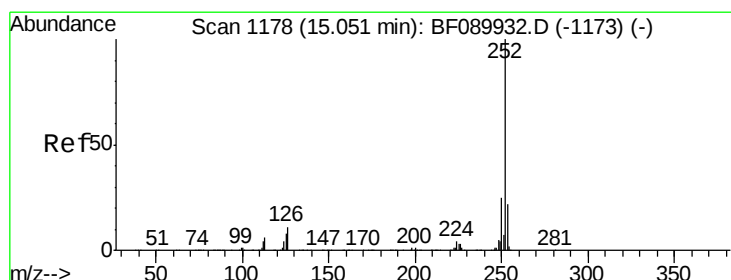
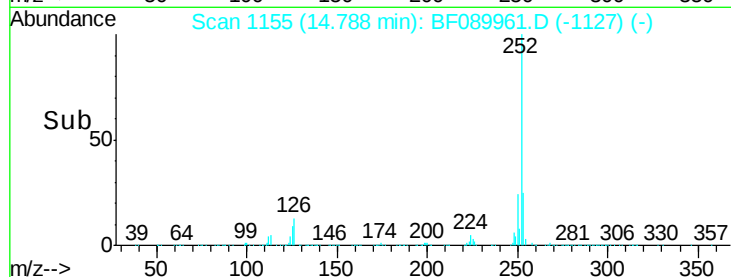
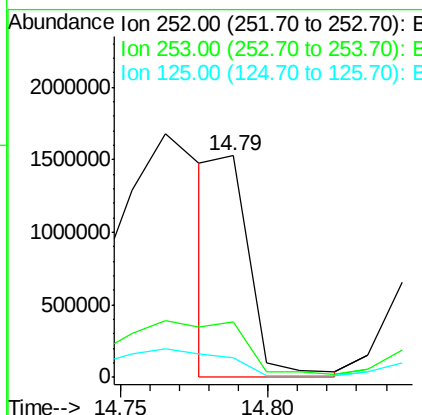
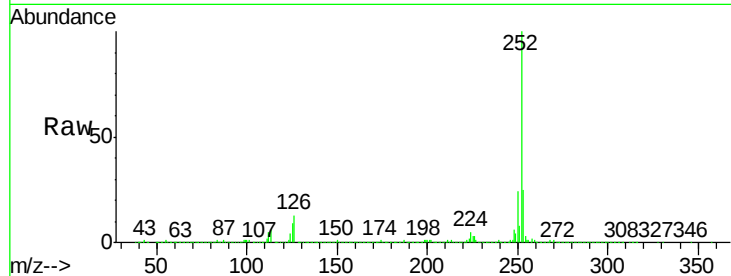
#88
Benzo(k)fluoranthene
Concen: 45.14 ng m
RT: 14.79 min Scan# 1155
Delta R.T. 0.02 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOIL

Tgt Ion:252 Resp: 1169072
Ion Ratio Lower Upper
252 100
253 25.1 17.8 26.8
125 8.9 7.3 10.9

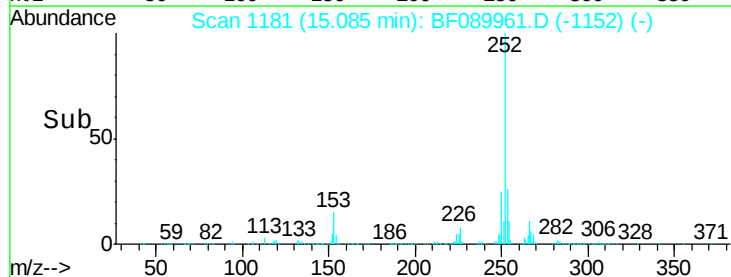
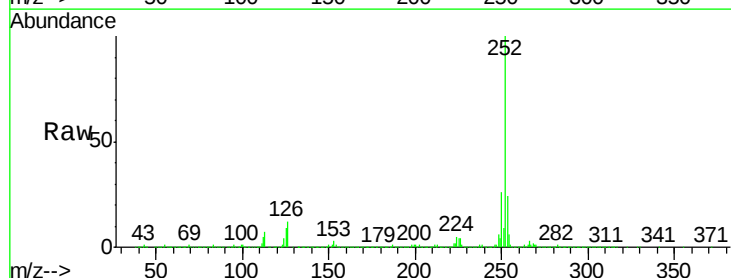
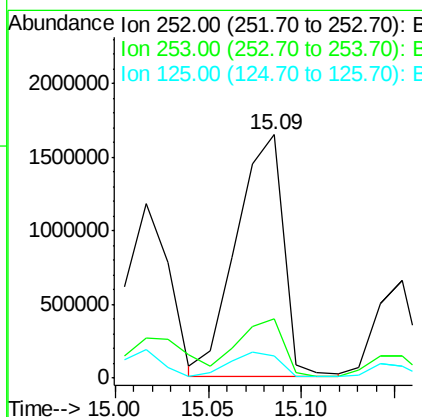
Manual Integrations
APPROVED

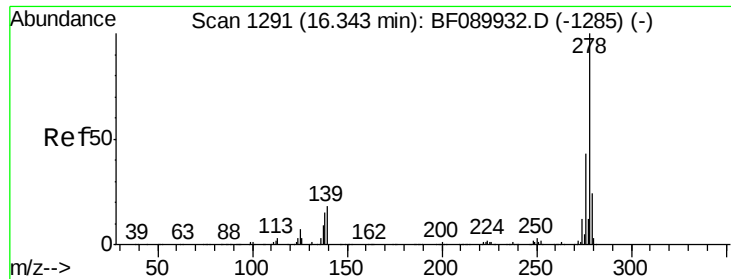
SOHIL
9/1/2016 11:54:38 AM



#89
Benzo(a)pyrene
Concen: 109.38 ng
RT: 15.09 min Scan# 1181
Delta R.T. 0.03 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion:252 Resp: 2859983
Ion Ratio Lower Upper
252 100
253 24.1 17.5 26.3
125 8.9 6.3 9.5





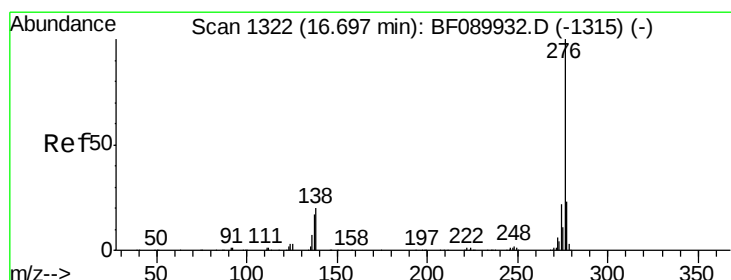
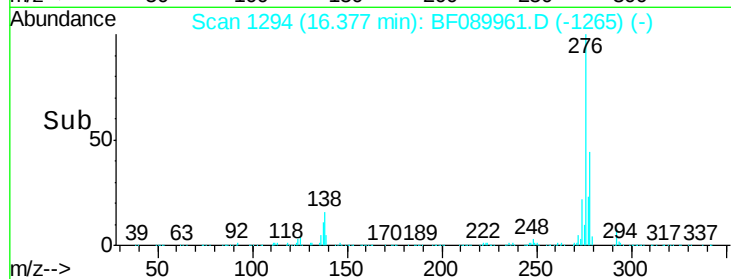
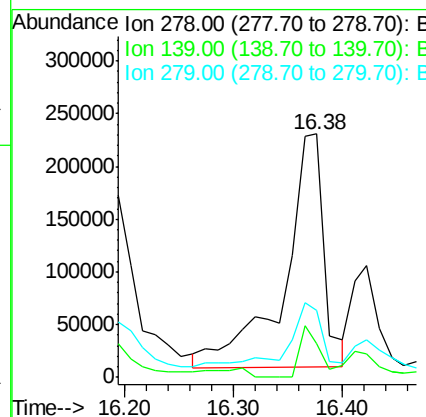
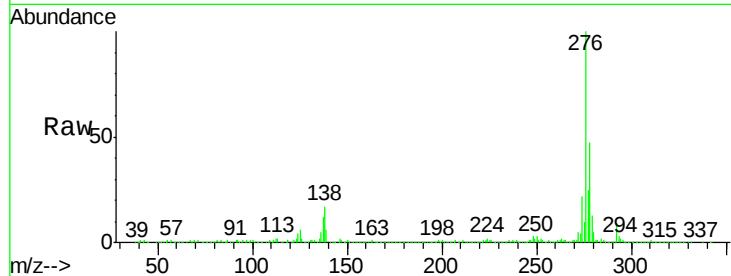
#90
Dibenzo(a,h)anthracene
Concen: 29.97 ng
RT: 16.38 min Scan# 1294
Delta R.T. 0.03 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOIL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.8	13.4	20.2
279	27.6	19.4	29.2

Manual Integrations
APPROVED

SOHIL
9/1/2016 11:54:38 AM



#91
Benzo(g,h,i)perylene
Concen: 78.50 ng
RT: 16.74 min Scan# 1326
Delta R.T. 0.05 min
Lab File: BF089961.D
Acq: 31 Aug 2016 20:17

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.0	28.4
138	23.7	16.4	24.6

