

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090116\
 Data File : BF089970.D
 Acq On : 1 Sep 2016 15:17
 Operator : UM/SJ
 Sample : H4635-02DL 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 11FT-SOILD

Manual Integrations
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Quant Time: Sep 02 01:50:09 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	201553	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	740007	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	372101	20.00	ng	0.00
63) Phenanthrene-d10	11.14	188	590087	20.00	ng	0.00
75) Chrysene-d12	13.76	240	478413	20.00	ng	0.00
86) Perylene-d12	15.11	264	512948	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	379195	30.11	ng	-0.01
7) Phenol-d6	6.26	99	464345	30.35	ng	-0.01
23) Nitrobenzene-d5	7.20	82	292688	22.94	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	91810	25.01	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	461885	20.38	ng	-0.01
78) Terphenyl-d14	12.72	244	328437	16.96	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.94	128	256435	6.96	ng	99
37) 2-Methylnaphthalene	8.63	142	84698	3.48	ng	97
49) Dimethylphthalate	9.39	163	187001	6.95	ng	98
51) Acenaphthene	9.70	154	152084	6.85	ng	97
54) Dibenzofuran	9.86	168	167078	5.62	ng	96
57) Fluorene	10.20	166	231773	10.66	ng	99
70) Phenanthrene	11.16	178	1671032	56.87	ng	100
71) Anthracene	11.21	178	605758	20.32	ng	99
72) Carbazole	11.37	167	187882	6.72	ng	96
74) Fluoranthene	12.34	202	1714619	55.68	ng	96
77) Pyrene	12.57	202	1757694	52.11	ng	100
80) Benzo(a)anthracene	13.75	228	902517	30.80	ng	99
82) Chrysene	13.78	228	799867m	29.22	ng	
85) Indeno(1,2,3-cd)pyrene	16.33	276	413651	20.44	ng	95
87) Benzo(b)fluoranthene	14.74	252	951508m	29.61	ng	
88) Benzo(k)fluoranthene	14.77	252	358045m	13.13	ng	
89) Benzo(a)pyrene	15.05	252	743670	27.01	ng	# 94
90) Dibenzo(a,h)anthracene	16.34	278	104851	5.20	ng	98
91) Benzo(g,h,i)perylene	16.70	276	373479	18.39	ng	96

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

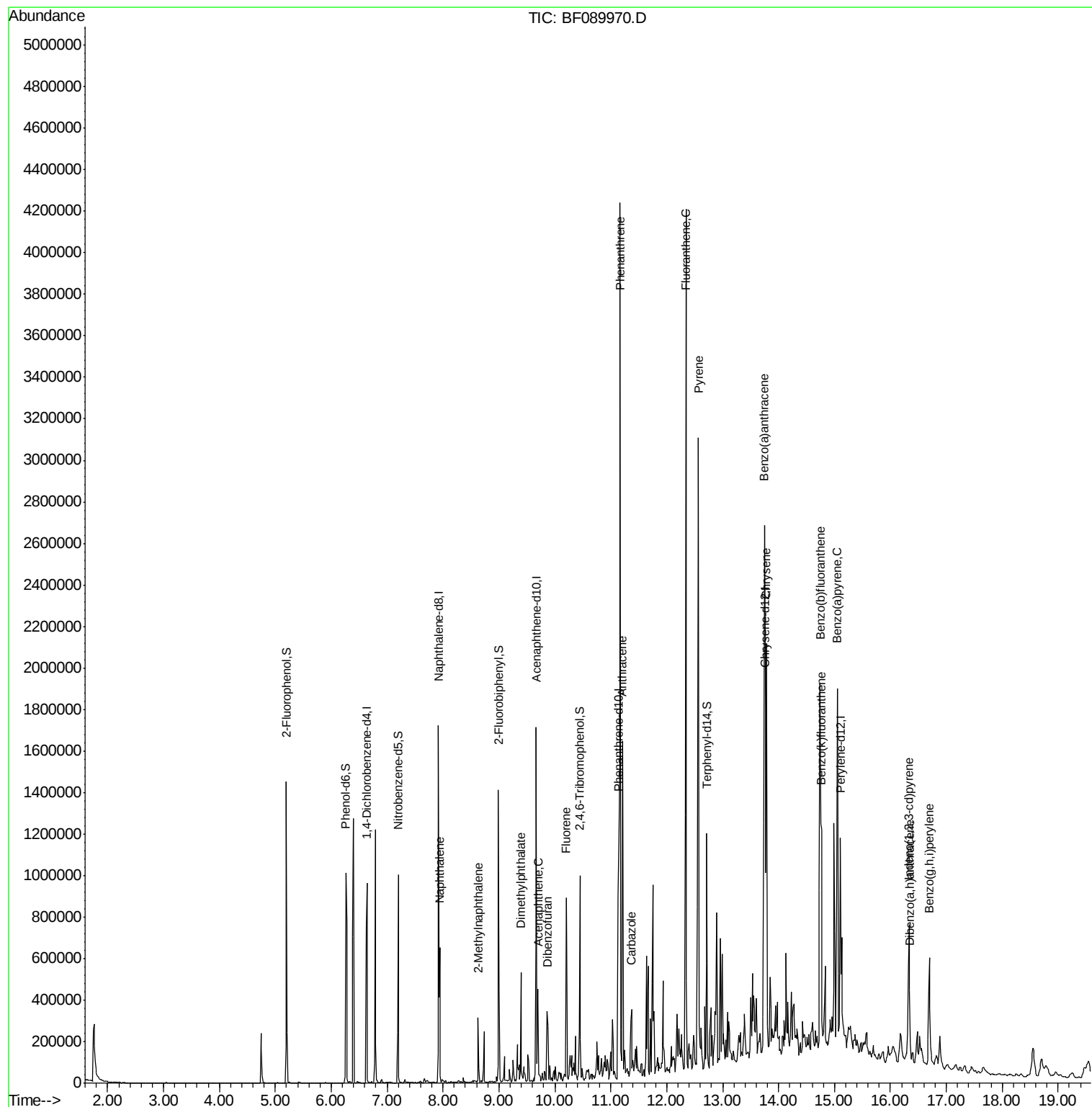
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090116\
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ALS Vial : 9 Sample Multiplier: 1

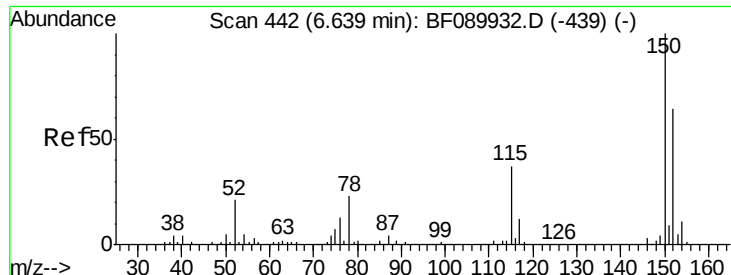
Instrument :
BNA_F
ClientSampleId :
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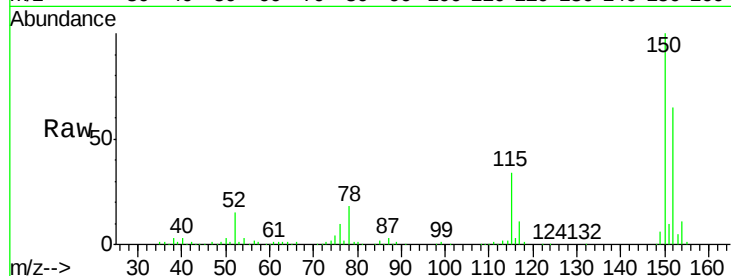
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.64 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Instrument :
 BNA_F
 ClientSampleId :
 11FT-SOILD

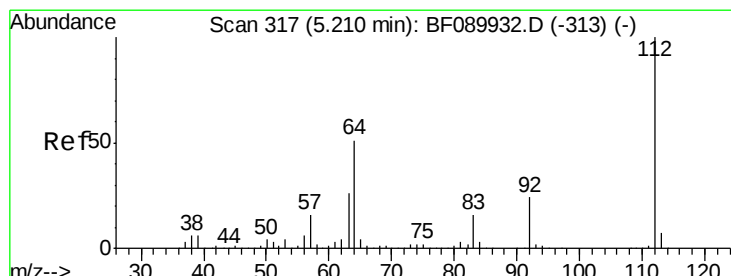
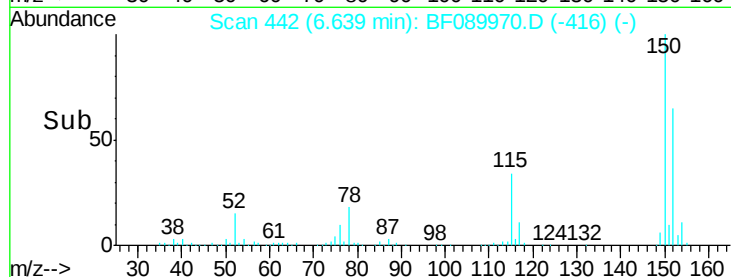
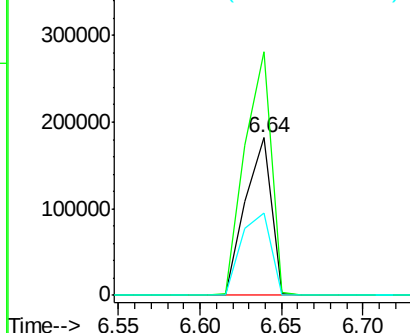
Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.6	127.4	191.2
115	52.5	46.3	69.5

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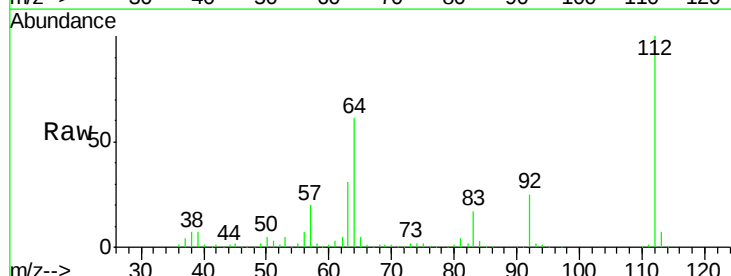


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

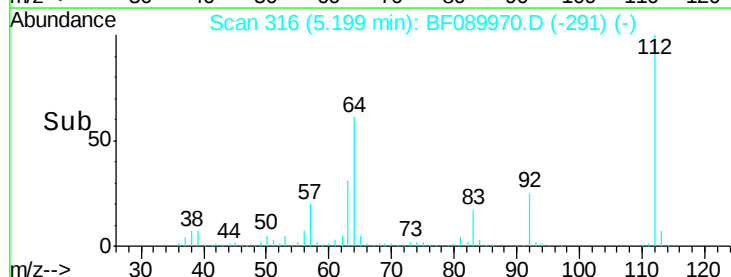
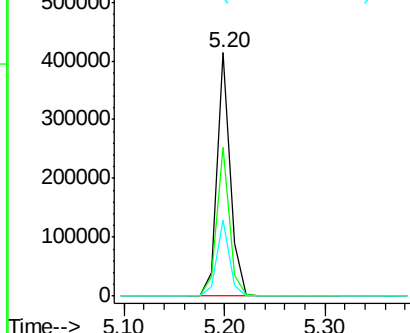


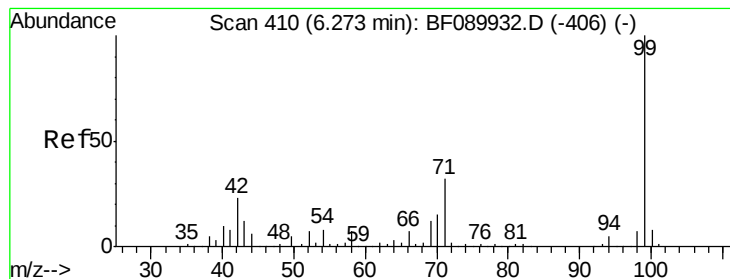
#5
 2-Fluorophenol
 Concen: 30.11 ng
 RT: 5.20 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	41.1	61.7
63	31.0	21.2	31.8



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 30.35 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Instrument :

BNA_F

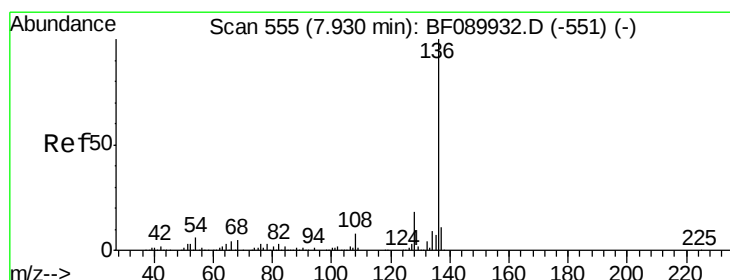
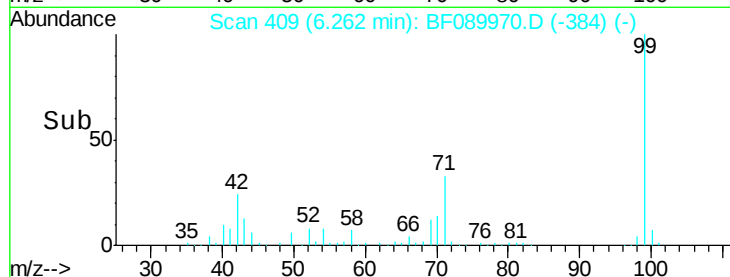
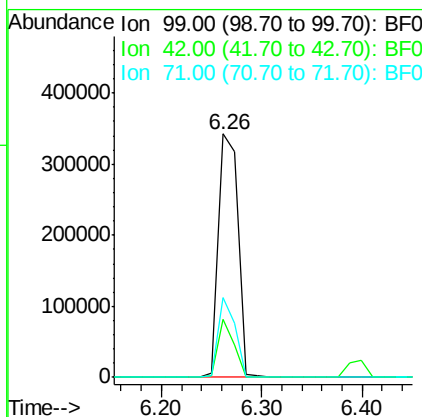
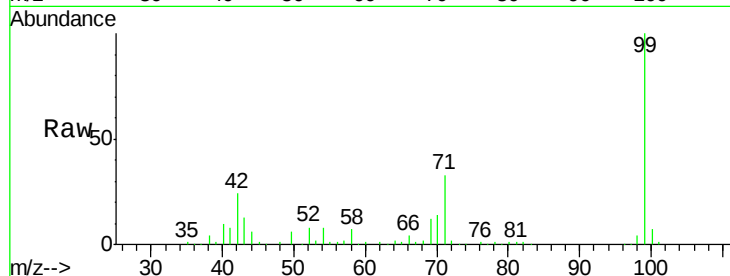
ClientSampleId :

11FT-SOILDL

Tgt Ion:	99	Resp:	464345
Ion Ratio	Lower	Upper	
99	100		
42	24.0	18.6	27.8
71	32.7	25.8	38.6

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#21

Naphthalene-d8

Concen: 20.00 ng

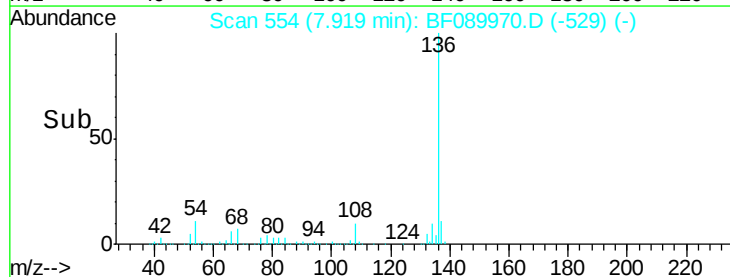
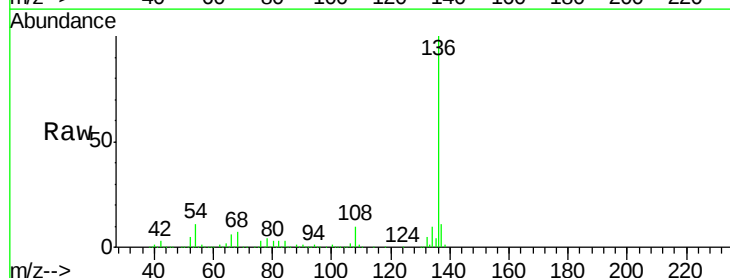
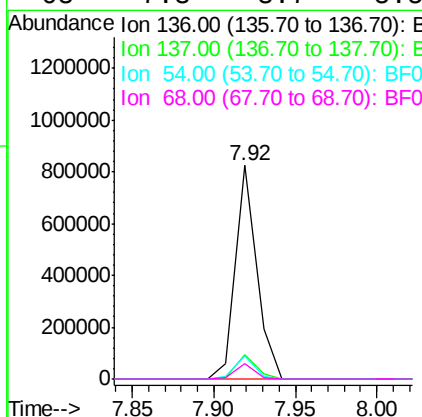
RT: 7.92 min Scan# 554

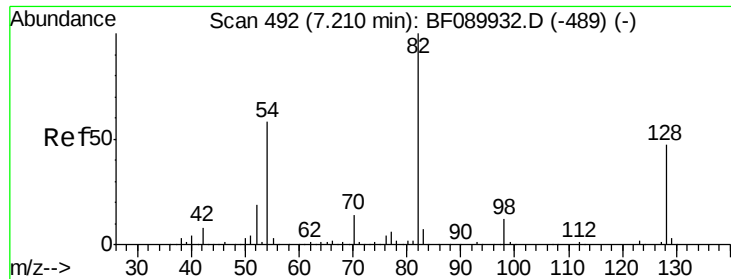
Delta R.T. -0.01 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Tgt Ion:	136	Resp:	740007
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.3	12.5
54	10.7	4.8	7.2#
68	7.3	3.7	5.5#





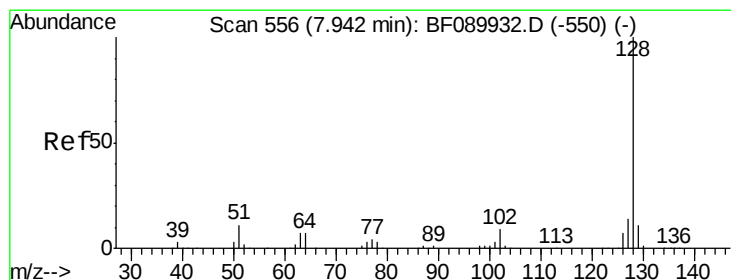
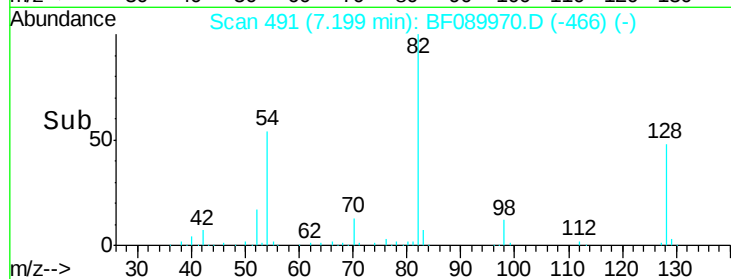
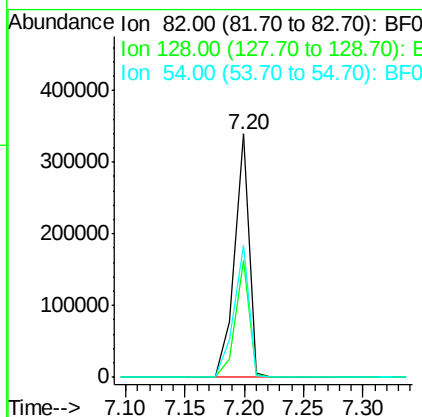
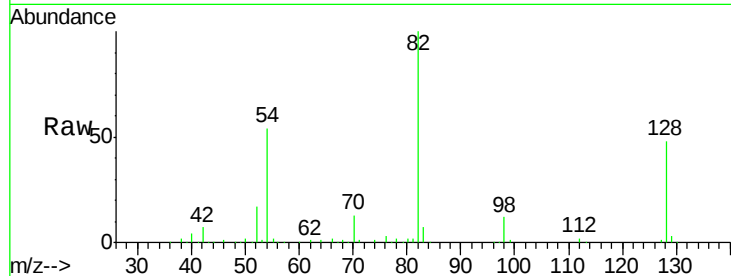
#23
 Nitrobenzene-d5
 Concen: 22.94 ng
 RT: 7.20 min Scan# 491
 Delta R.T. -0.01 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Instrument :
 BNA_F
 ClientSampled :
 11FT-SOILDL

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	292688		
128	48.2	37.8	56.8	
54	54.4	46.9	70.3	

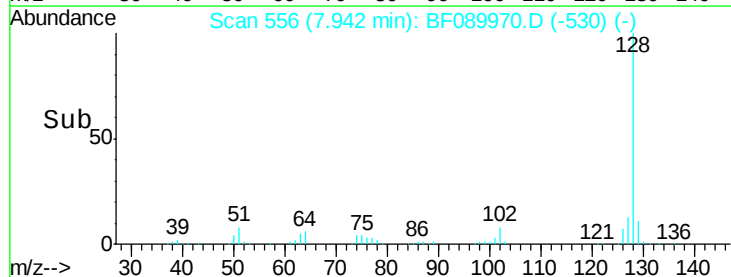
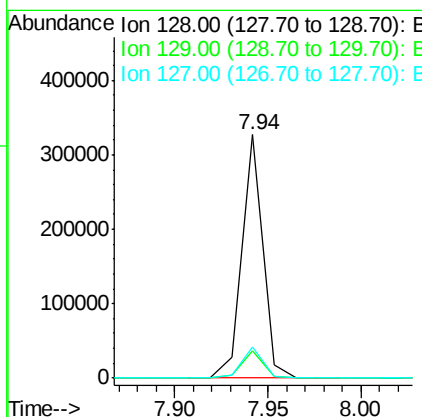
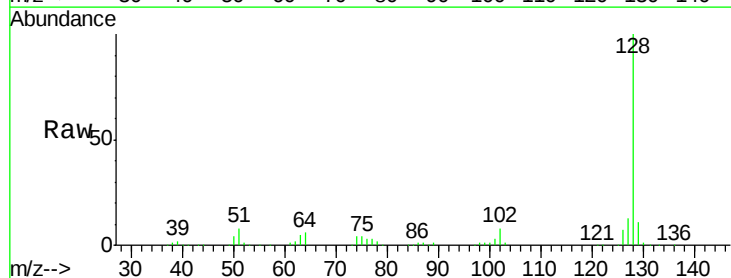
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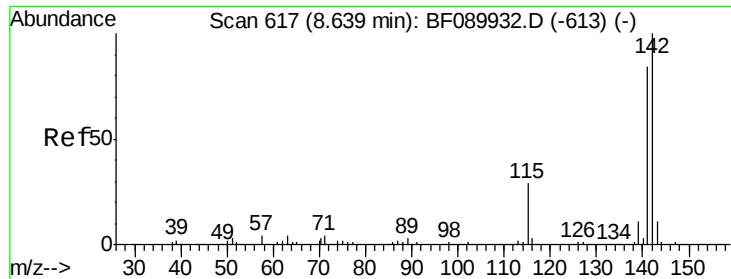
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#31
 Naphthalene
 Concen: 6.96 ng
 RT: 7.94 min Scan# 556
 Delta R.T. 0.00 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	256435		
129	11.0	9.4	14.0	
127	13.0	10.7	16.1	





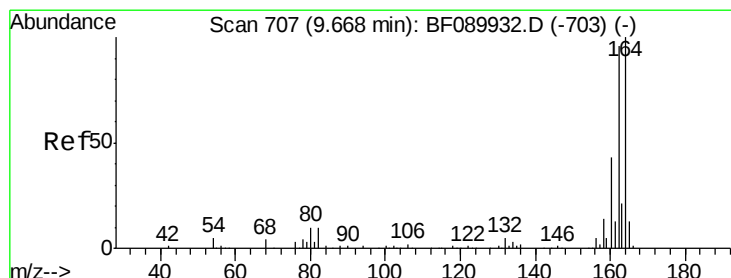
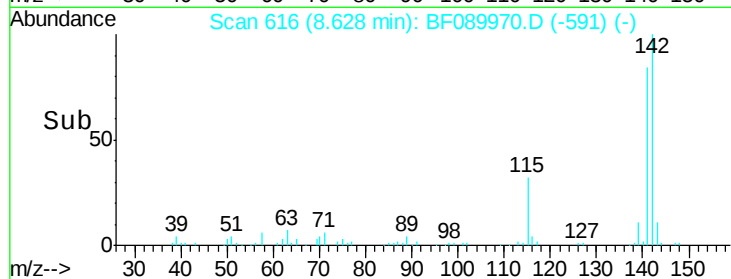
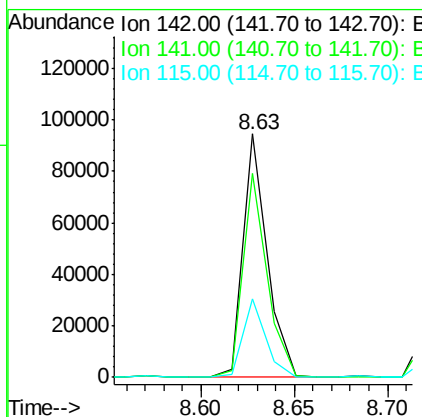
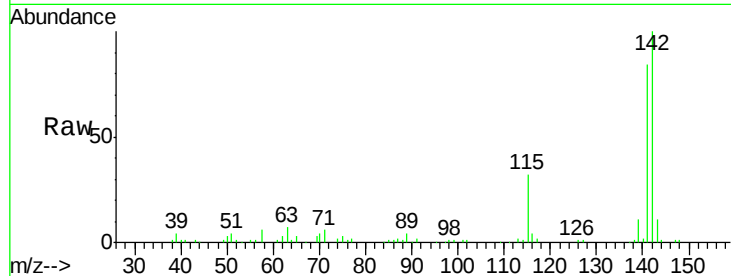
#37
2-Methylnaphthalene
Concen: 3.48 ng
RT: 8.63 min Scan# 616
Delta R.T. -0.01 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	68.3	102.5
115	32.2	23.8	35.8

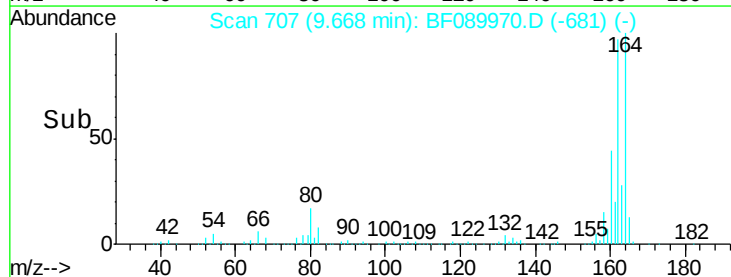
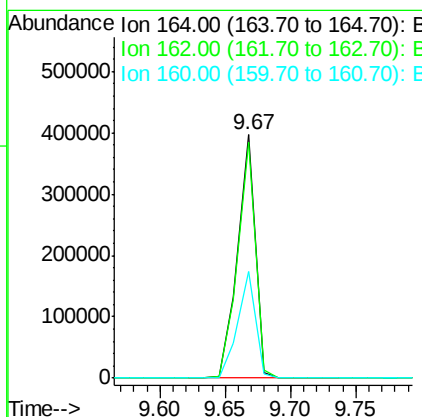
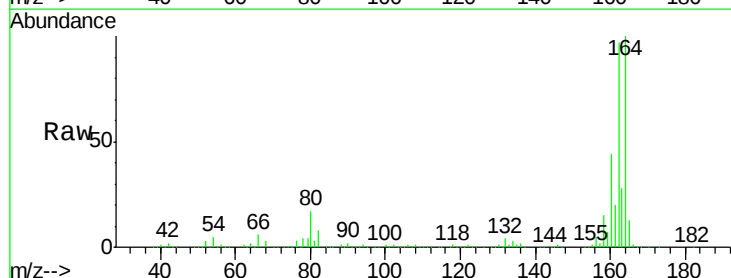
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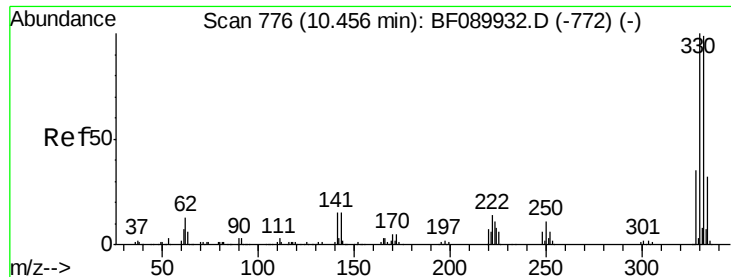
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.67 min Scan# 707
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

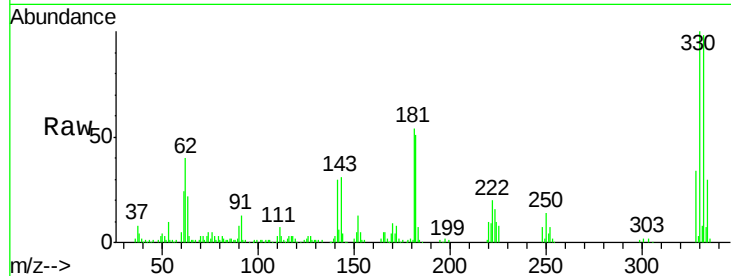
Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.1	77.1	115.7
160	44.0	35.3	52.9





#41
 2,4,6-Tribromophenol
 Concen: 25.01 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

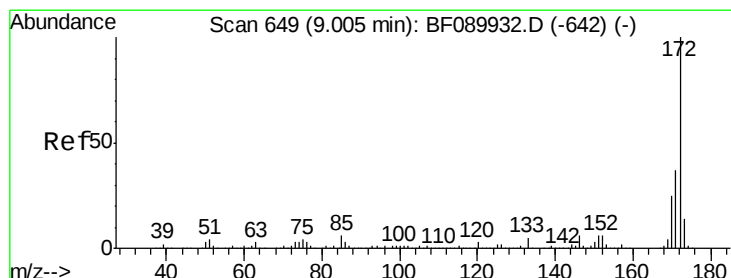
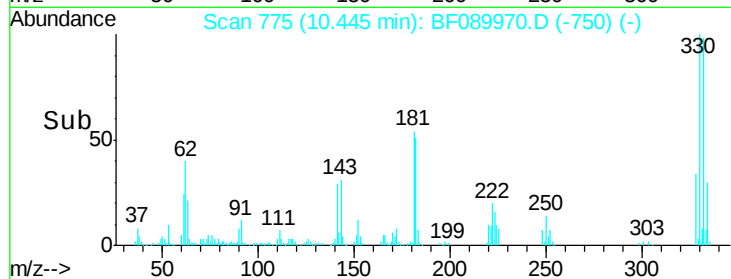
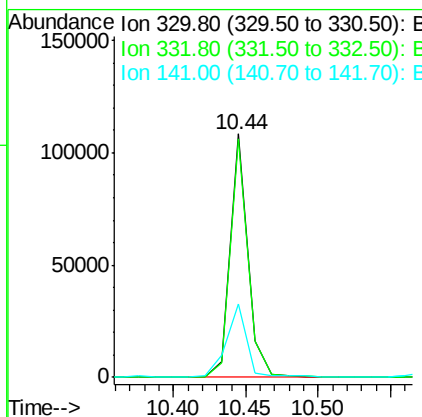
Instrument :
 BNA_F
 ClientSampled :
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Tgt Ion	Ratio	Resp	Lower	Upper
330	100	91810		
332	98.0	78.6	117.8	
141	35.7	23.3	34.9#	

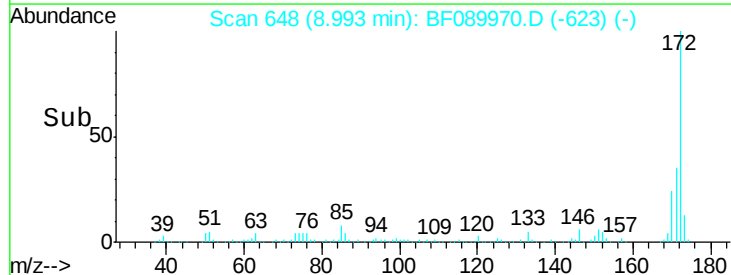
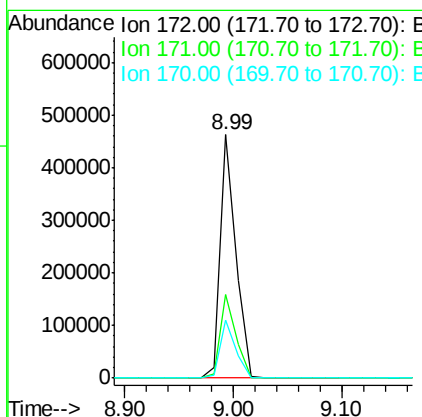
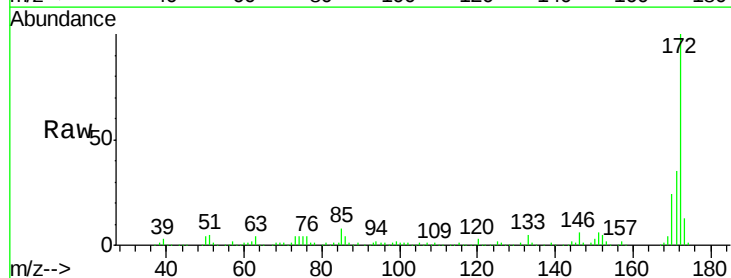
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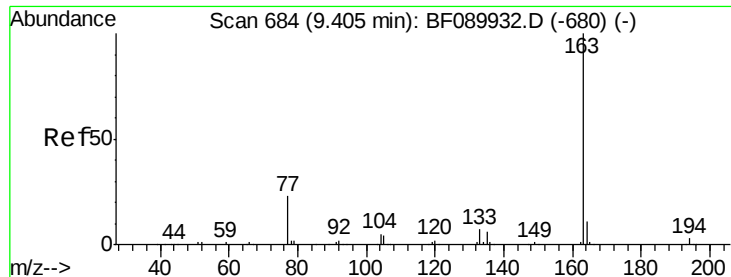
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#44
 2-Fluorobiphenyl
 Concen: 20.38 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	461885		
171	34.6	29.4	44.2	
170	23.8	20.1	30.1	





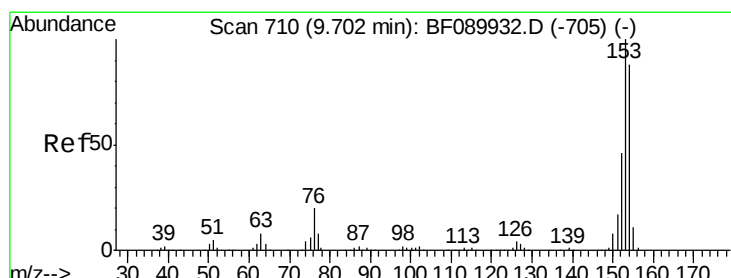
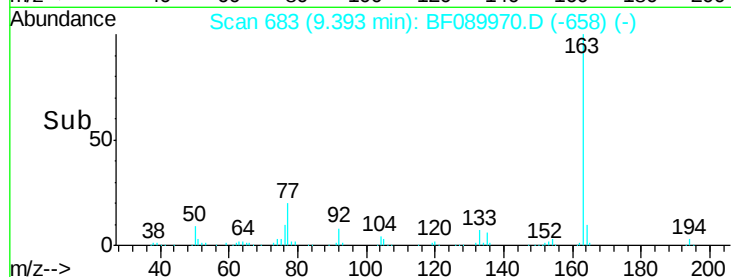
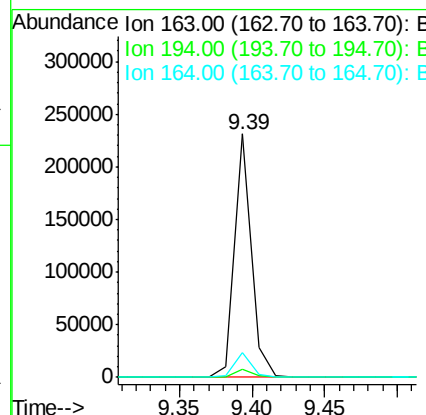
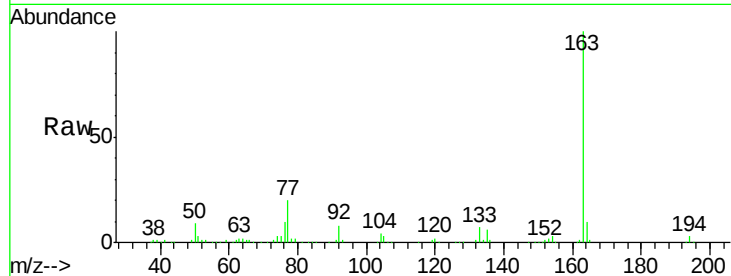
#49
Dimethylphthalate
Concen: 6.95 ng
RT: 9.39 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOILD

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	187001		
194	3.5	2.7	4.1	
164	10.4	9.0	13.4	

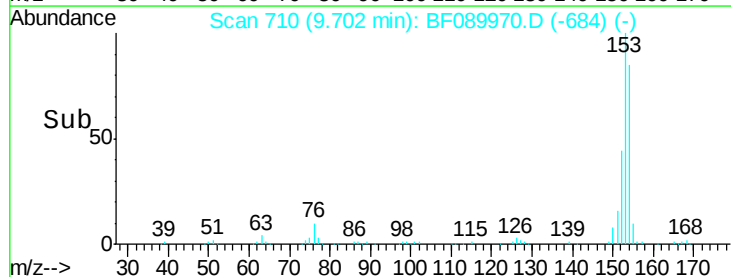
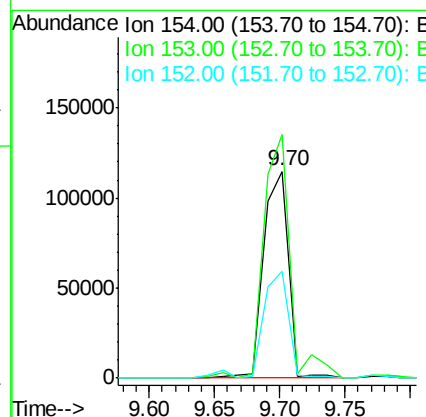
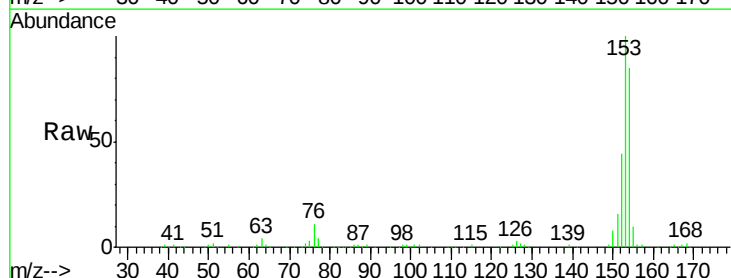
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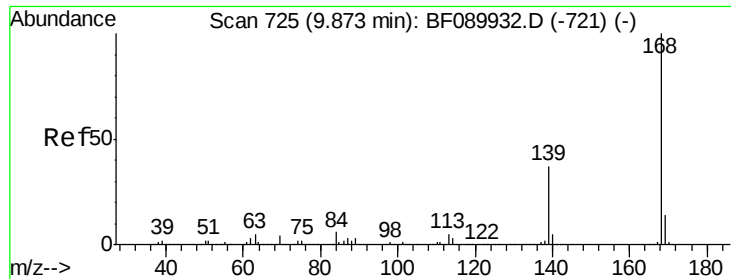
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#51
Acenaphthene
Concen: 6.85 ng
RT: 9.70 min Scan# 710
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	152084		
153	117.6	90.6	135.8	
152	51.6	42.4	63.6	





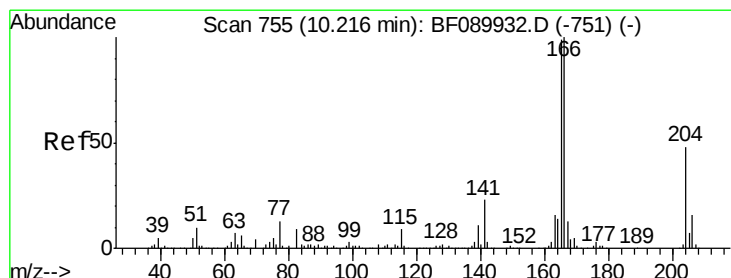
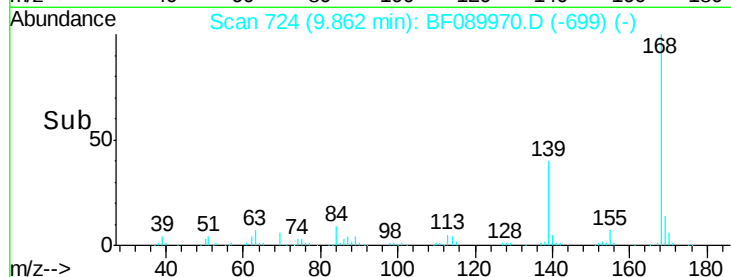
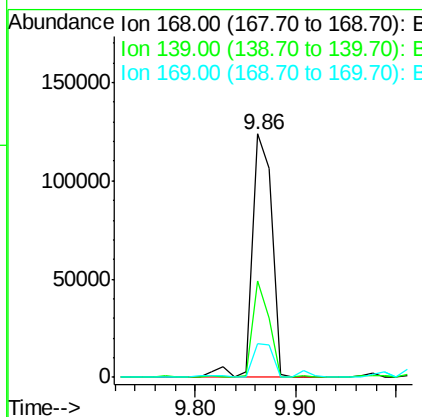
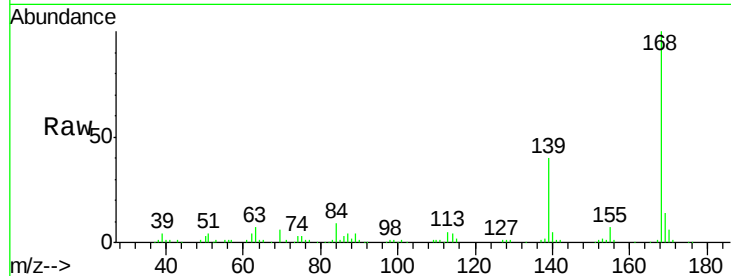
#54
Dibenzenofuran
Concen: 5.62 ng
RT: 9.86 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOILD

Tgt Ion	Ratio	Lower	Upper
168	100		
139	39.6	29.5	44.3
169	14.1	10.8	16.2

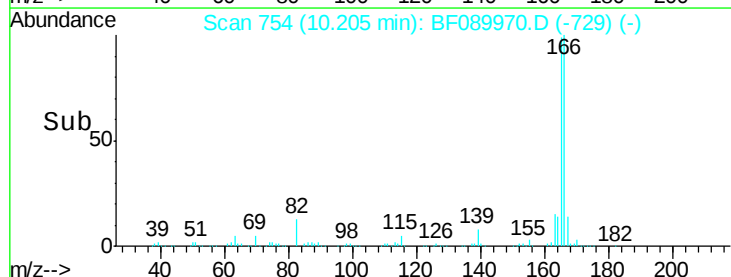
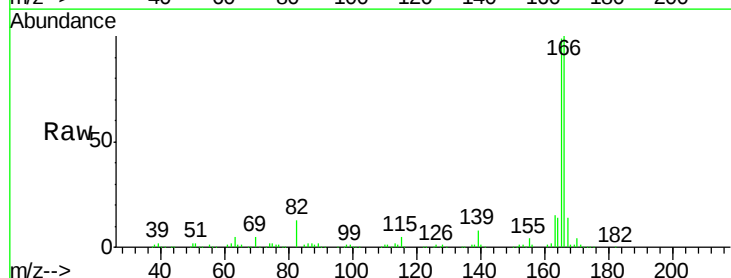
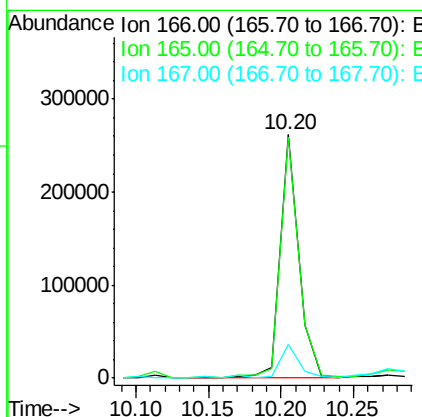
Manual Integrations
APPROVED

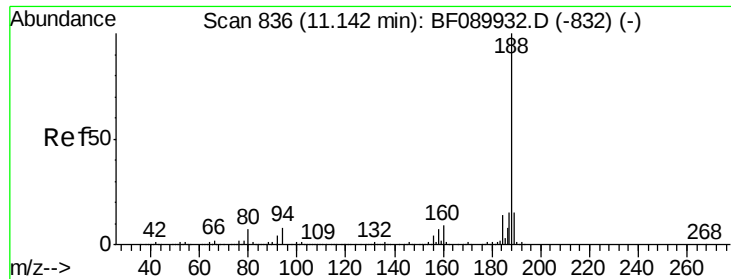
sohil
9/2/2016 9:07:54 AM



#57
Fluorene
Concen: 10.66 ng
RT: 10.20 min Scan# 754
Delta R.T. -0.01 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.6	118.0
167	14.0	10.6	15.8





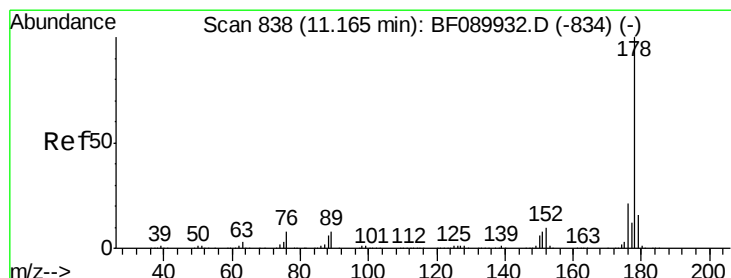
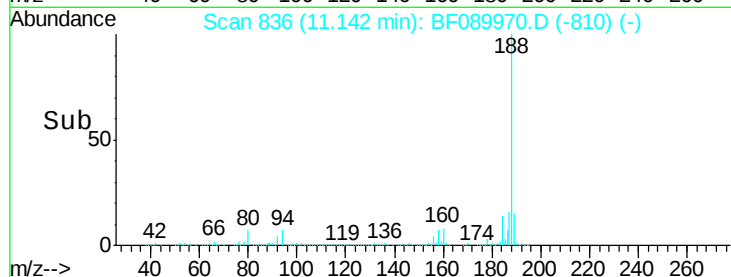
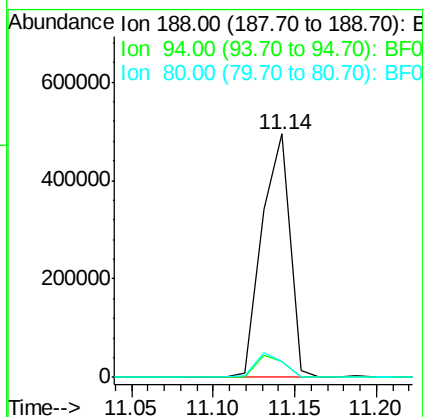
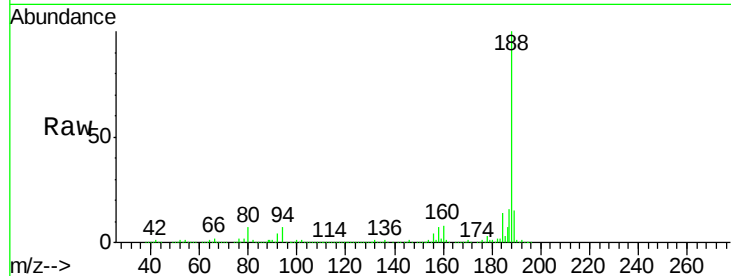
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.14 min Scan# 836
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOILD

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	6.7	5.9	8.9
80	6.5	5.8	8.8

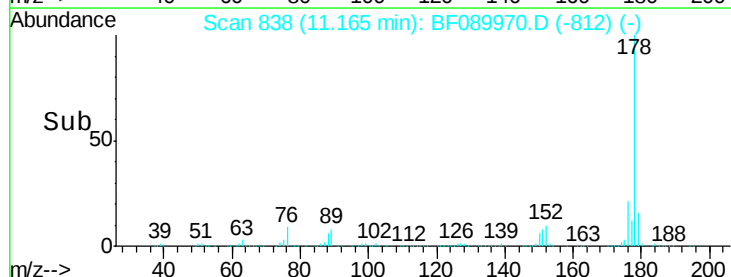
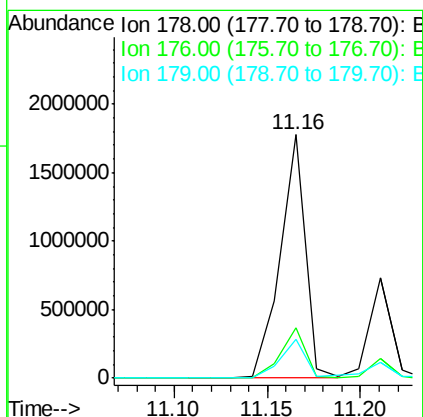
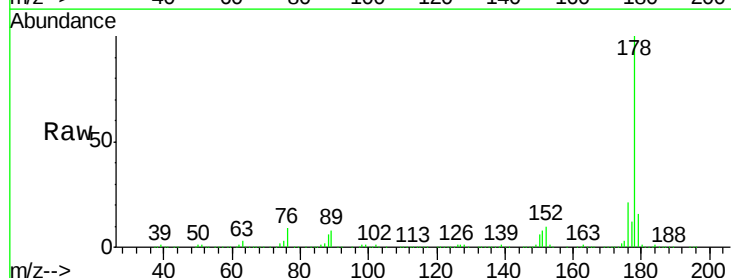
Manual Integrations
APPROVED

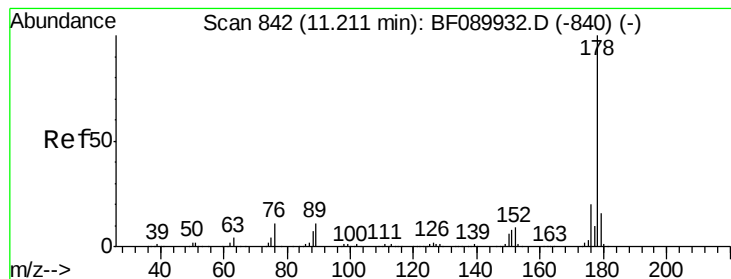
sohil
9/2/2016 9:07:54 AM



#70
Phenanthrene
Concen: 56.87 ng
RT: 11.16 min Scan# 838
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.7	16.5	24.7
179	16.2	12.8	19.2





#71

Anthracene

Concen: 20.32 ng

RT: 11.21 min Scan# 842

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Instrument :

BNA_F

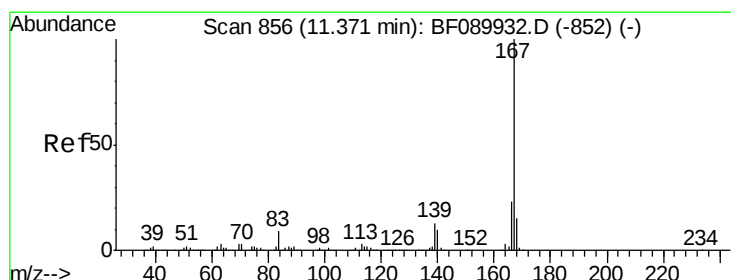
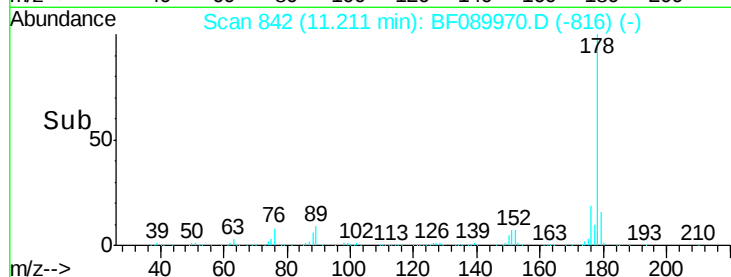
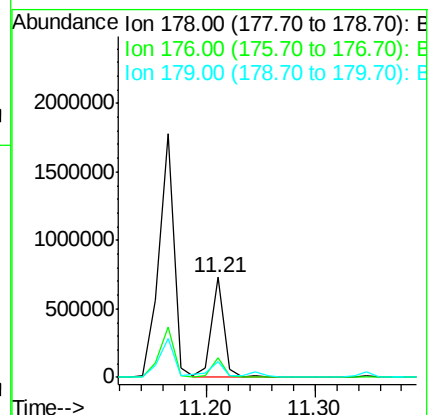
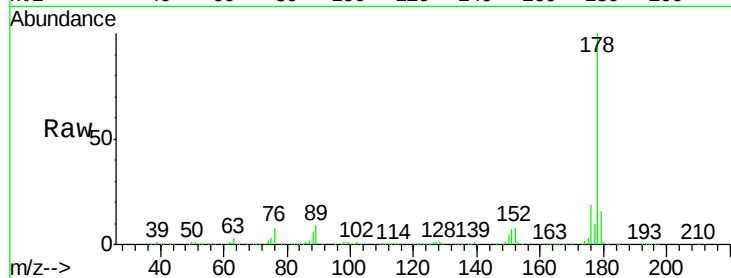
ClientSampleId :

11FT-SOILDL

Tgt Ion:	178	Resp:	605758
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.8	23.8
179	15.6	13.0	19.4

Manual Integrations
APPROVED

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#72

Carbazole

Concen: 6.72 ng

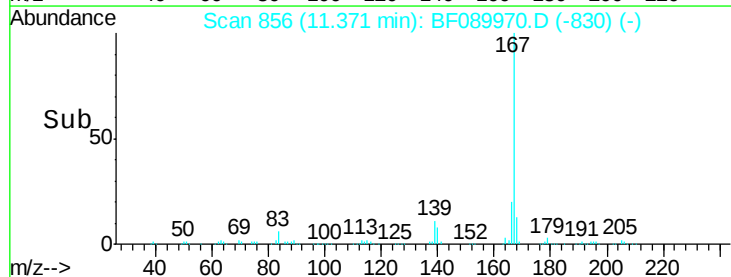
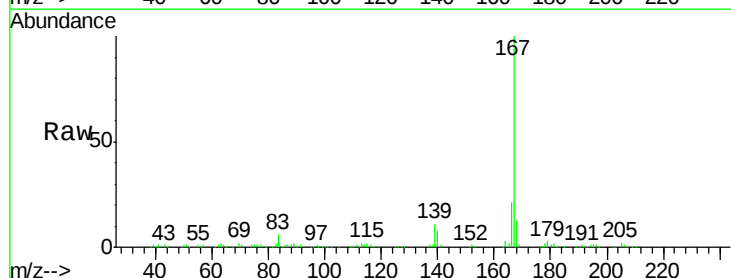
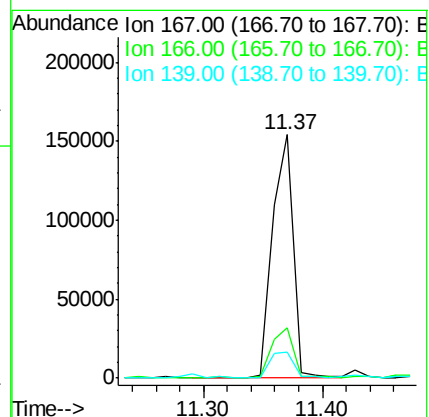
RT: 11.37 min Scan# 856

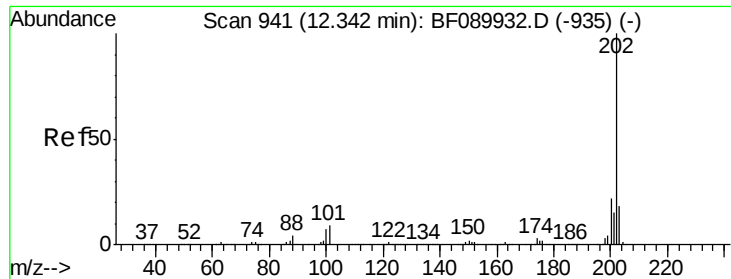
Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Tgt Ion:	167	Resp:	187882
Ion Ratio	Lower	Upper	
167	100		
166	20.8	18.1	27.1
139	10.8	10.4	15.6





#74

Fluoranthene

Concen: 55.68 ng

RT: 12.34 min Scan# 941

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Instrument :

BNA_F

ClientSampleId :

11FT-SOILD

Tgt Ion:202 Resp: 1714619

Ion Ratio Lower Upper

202 100

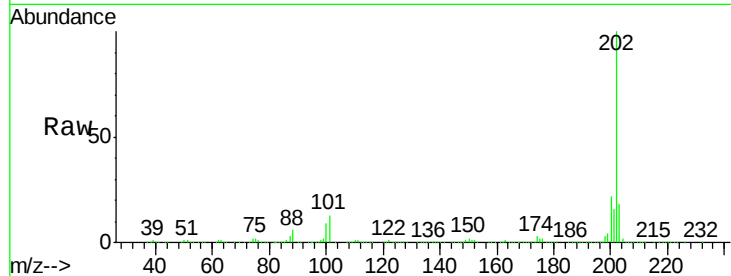
101 12.5 0.0 28.5

203 18.1 0.0 38.0

Manual Integrations
APPROVED

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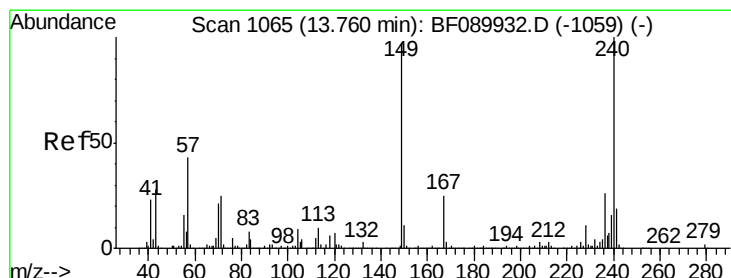
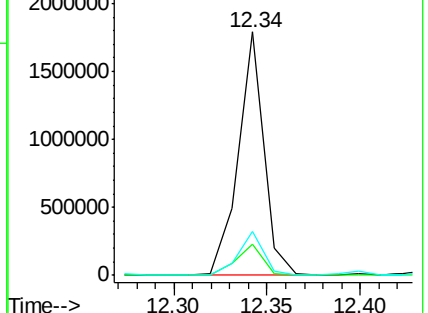
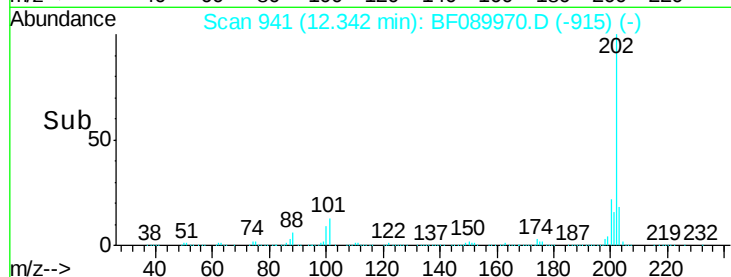
9/2/2016 9:07:54 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

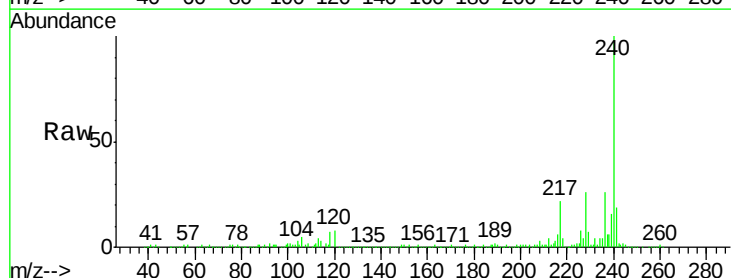
Tgt Ion:240 Resp: 478413

Ion Ratio Lower Upper

240 100

120 8.0 5.7 8.5

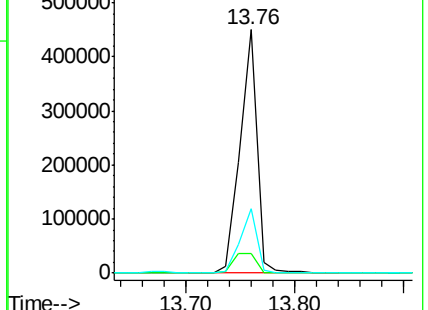
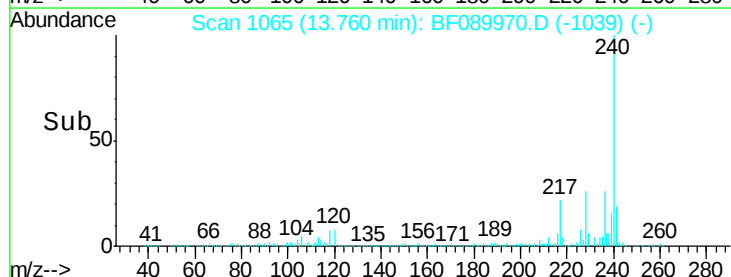
236 26.4 21.3 31.9

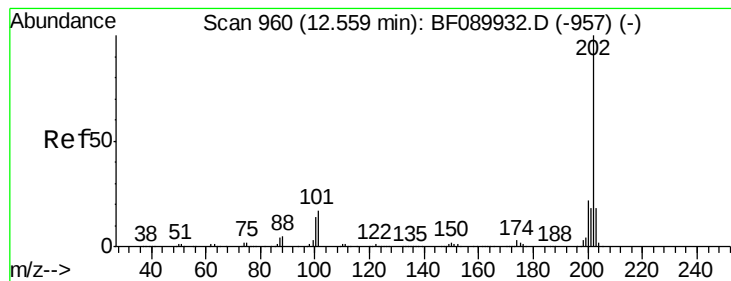


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 52.11 ng

RT: 12.57 min Scan# 961

Delta R.T. 0.01 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Instrument :

BNA_F

ClientSampleId :

11FT-SOILD

Tgt Ion: 202 Resp: 1757694

Ion Ratio Lower Upper

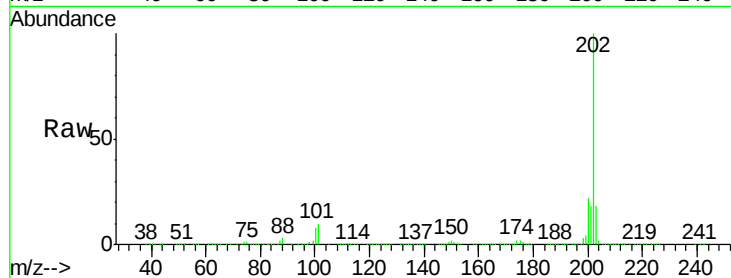
202 100

200 22.0 17.6 26.4

203 17.9 14.6 21.8

Manual Integrations
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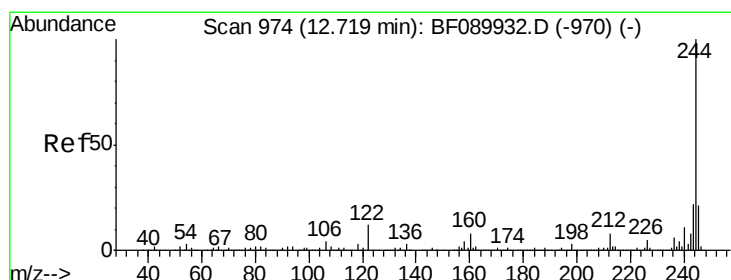
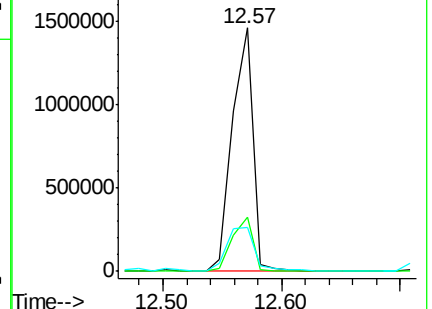
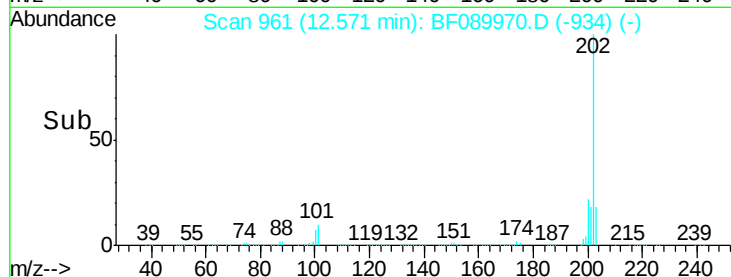
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Abundance Ion 202.00 (201.70 to 202.70): E

2000000 Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 16.96 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

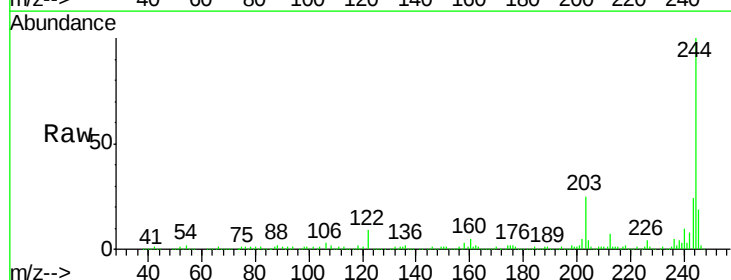
Tgt Ion: 244 Resp: 328437

Ion Ratio Lower Upper

244 100

212 6.5 6.1 9.1

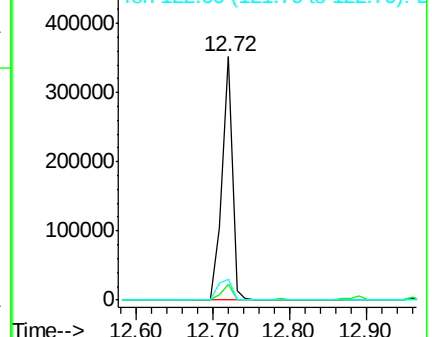
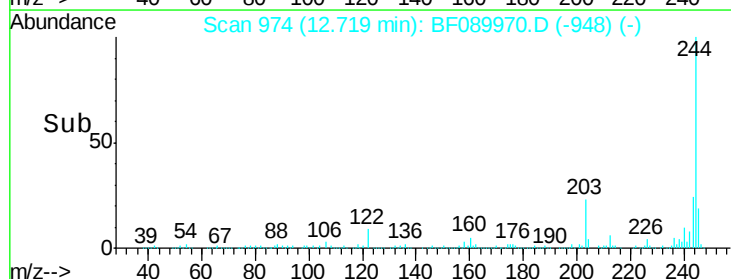
122 8.6 9.6 14.4#

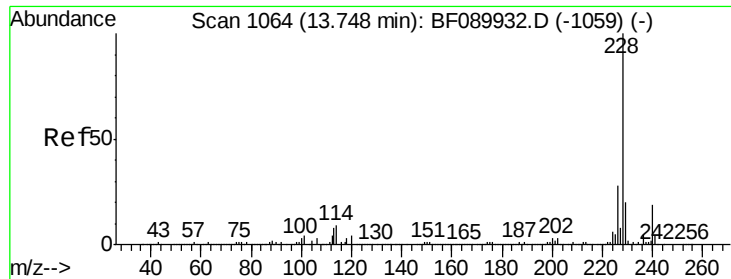


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





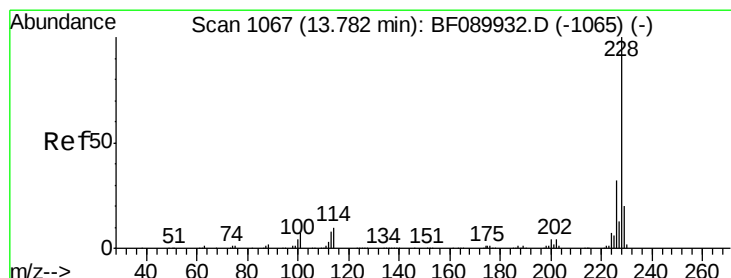
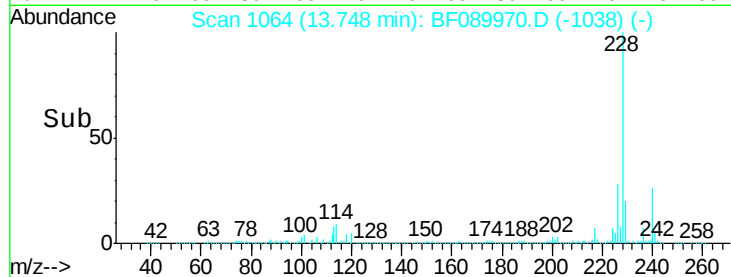
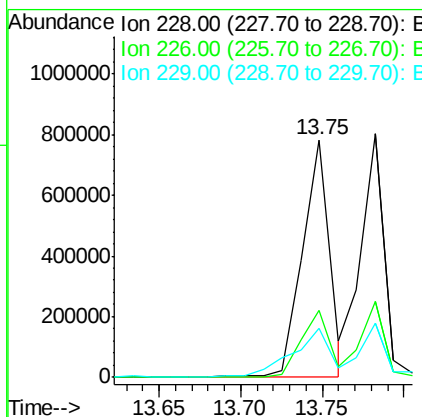
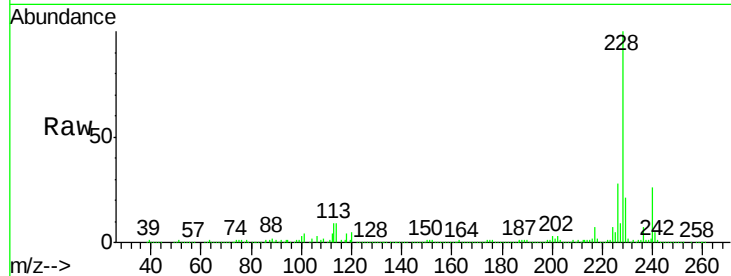
#80
Benzo(a)anthracene
Concen: 30.80 ng
RT: 13.75 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOILD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.2
229	20.6	15.8	23.6

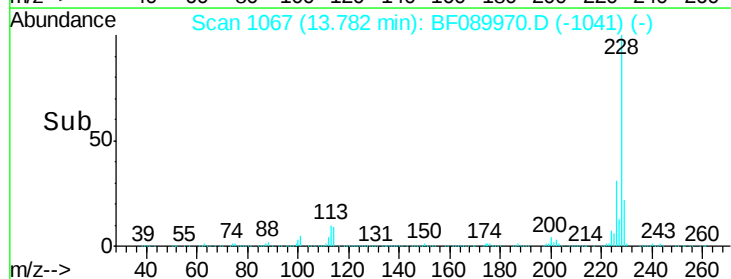
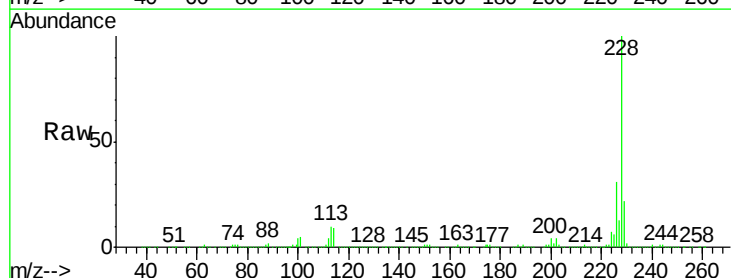
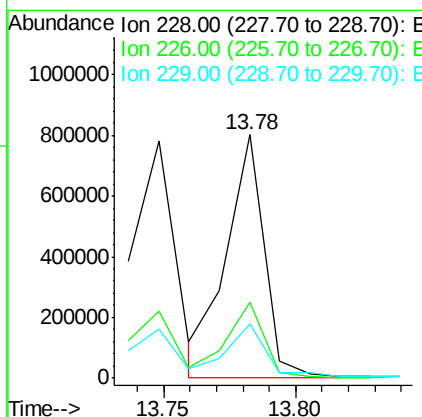
Manual Integrations
APPROVED

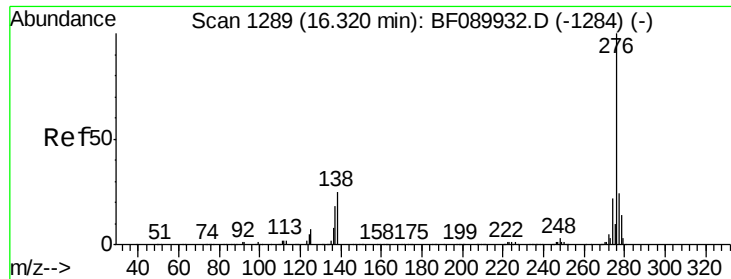
sohil
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#82
Chrysene
Concen: 29.22 ng m
RT: 13.78 min Scan# 1067
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.2	37.8
229	22.4	16.2	24.2





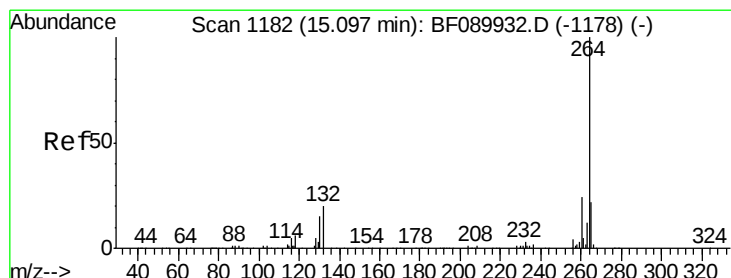
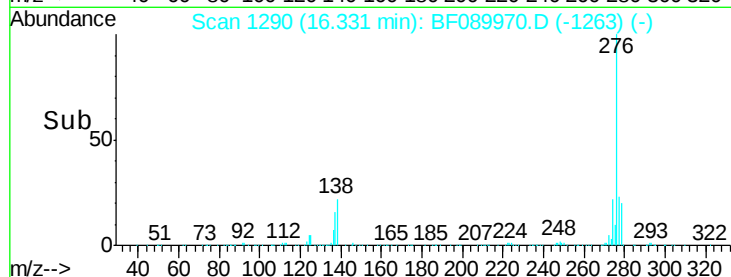
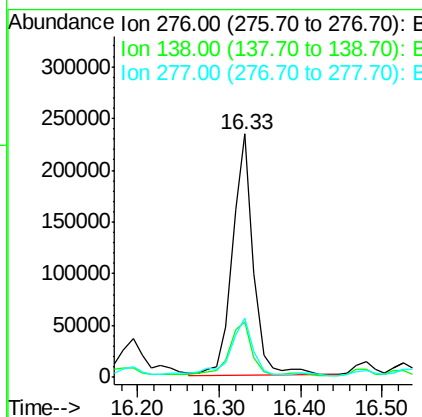
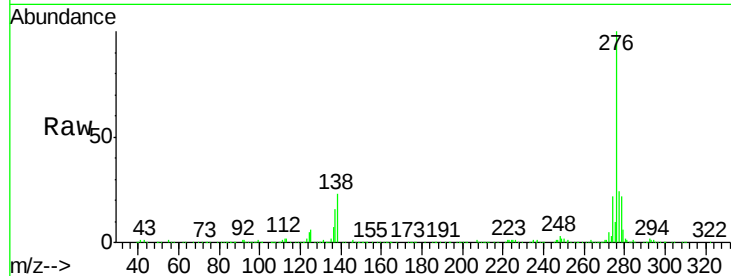
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 20.44 ng
 RT: 16.33 min Scan# 1290
 Delta R.T. 0.01 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Instrument :
 BNA_F
 ClientSampleId :
 11FT-SOILD

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	413651		
138	25.7	22.6	34.0	
277	27.2	20.1	30.1	

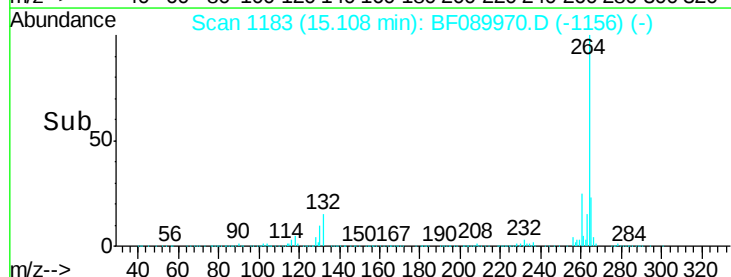
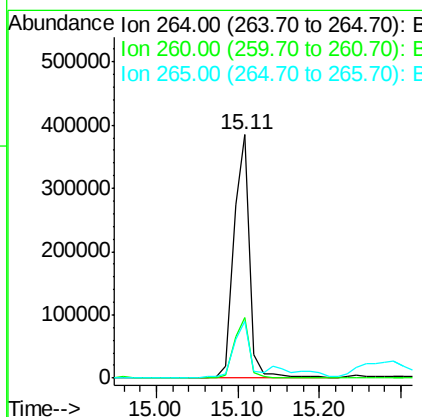
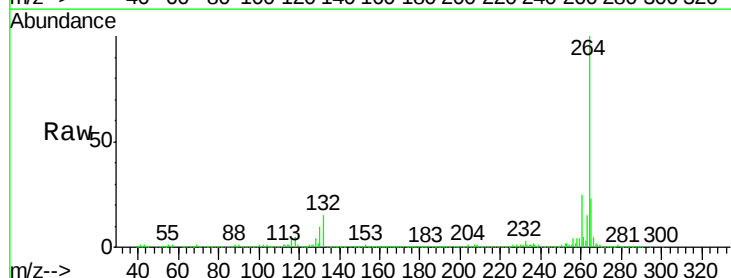
Manual Integrations
 APPROVED

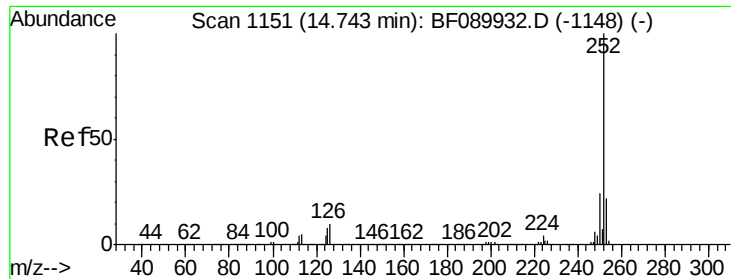
sohil
 9/2/2016 9:07:54 AM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.11 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: BF089970.D
 Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	512948		
260	24.9	19.4	29.0	
265	23.4	17.4	26.2	





#87

Benzo(b)fluoranthene

Concen: 29.61 ng m

RT: 14.74 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Instrument :

BNA_F

ClientSampleId :

11FT-SOILD

Tgt Ion: 252 Resp: 951508

Ion Ratio Lower Upper

252 100

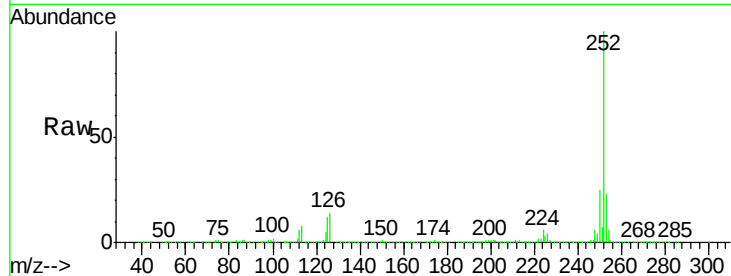
253 22.6 18.0 27.0

125 11.7 5.7 8.5

Manual Integrations
APPROVED

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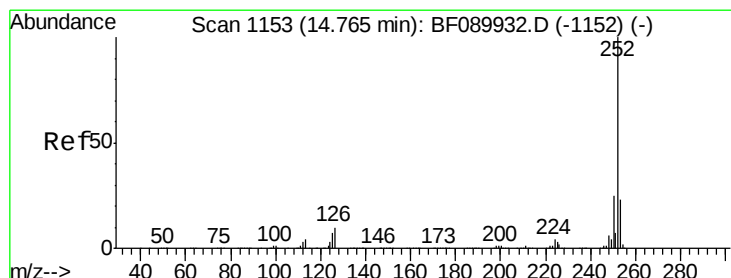
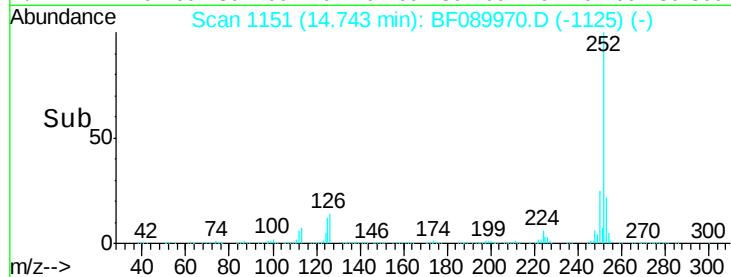
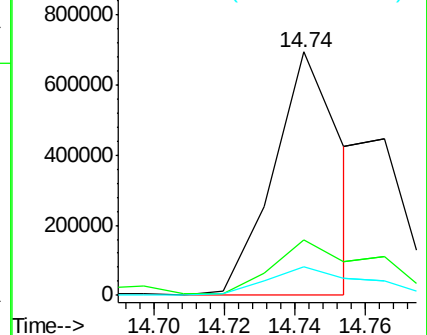
9/2/2016 9:07:54 AM



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: 13.13 ng m

RT: 14.77 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Tgt Ion: 252 Resp: 358045

Ion Ratio Lower Upper

252 100

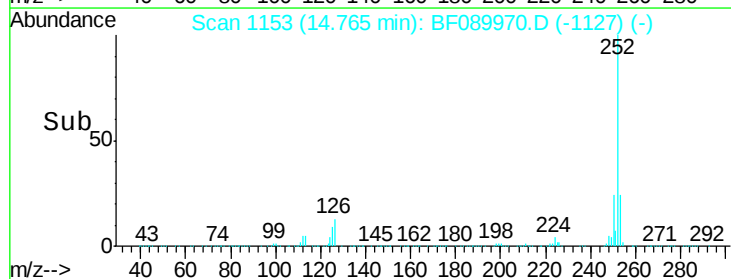
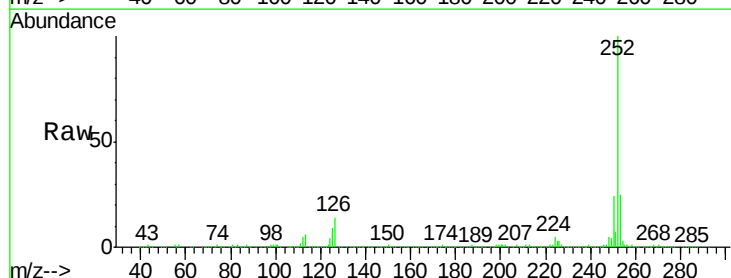
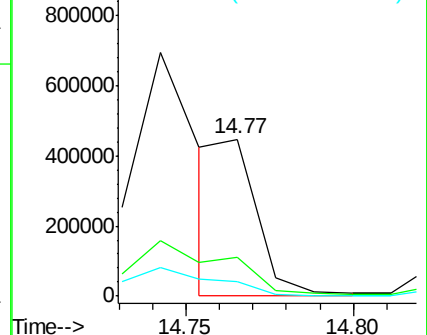
253 24.5 17.8 26.8

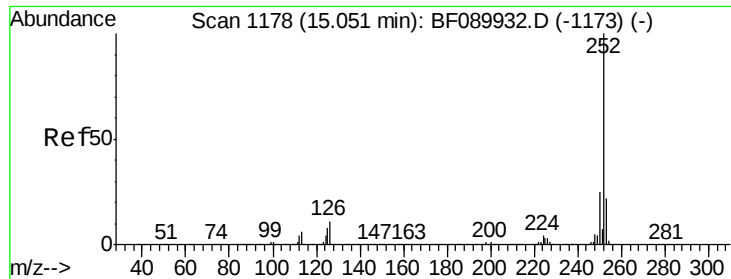
125 9.0 7.3 10.9

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





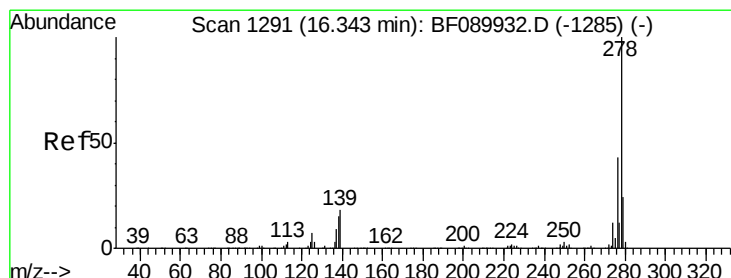
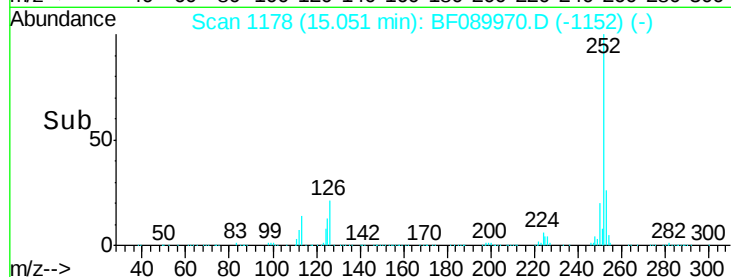
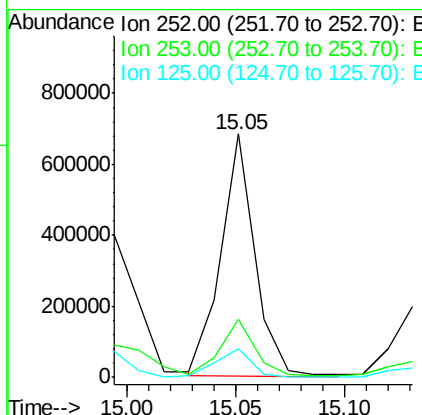
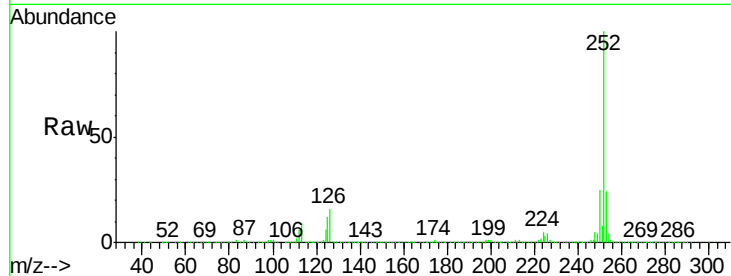
#89
Benzo(a)pyrene
Concen: 27.01 ng
RT: 15.05 min Scan# 1178
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Instrument :
BNA_F
ClientSampleId :
11FT-SOILD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	11.9	6.3	9.5

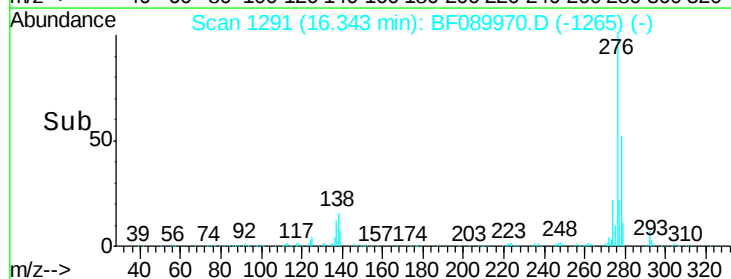
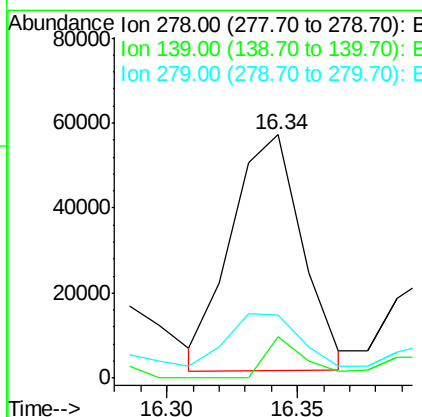
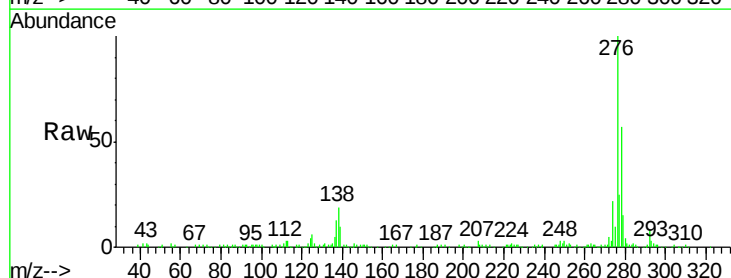
Manual Integrations
APPROVED

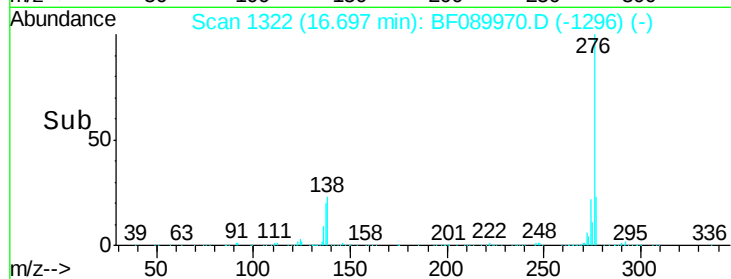
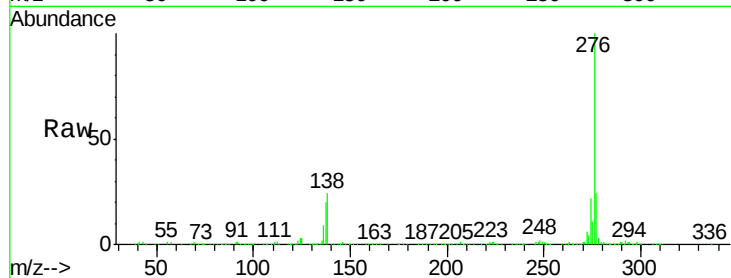
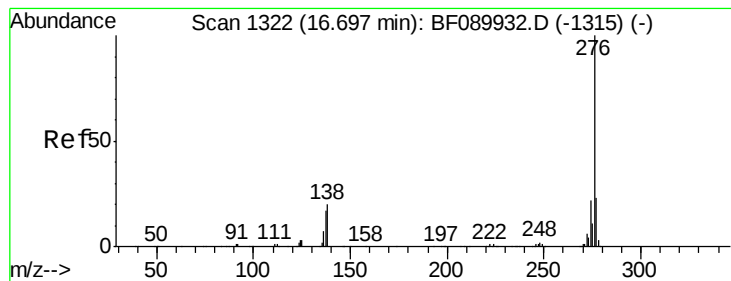
sohil
9/2/2016 9:07:54 AM



#90
Dibenzo(a,h)anthracene
Concen: 5.20 ng
RT: 16.34 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BF089970.D
Acq: 1 Sep 2016 15:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.1	13.4	20.2
279	25.8	19.4	29.2





#91

Benzo(g,h,i)perylene

Concen: 18.39 ng

RT: 16.70 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BF089970.D

Acq: 1 Sep 2016 15:17

Tgt Ion:	276	Resp:	373479
Ion Ratio		Lower	Upper
276	100		
277	24.0	19.0	28.4
138	24.0	16.4	24.6

Instrument :

BNA_F

ClientSampleId :

11FT-SOILDL

Manual Integrations
APPROVED

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