

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
 Data File : BF097372.D
 Acq On : 4 Aug 2017 22:55
 Operator : SJ/JU
 Sample : I4586-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HARDWICK-SOIL-COMP

Quant Time: Aug 05 01:28:48 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.44	152	112691	20.00	ng	-0.06
21) Naphthalene-d8	7.72	136	463946	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	174386	20.00	ng	-0.07
63) Phenanthrene-d10	10.93	188	240996	20.00	ng	-0.07
75) Chrysene-d12	13.55	240	217891	20.00	ng	-0.08
86) Perylene-d12	14.89	264	168712	20.00	ng	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.04	112	617545	82.61	ng	-0.06
7) Phenol-d6	6.12	99	780756	91.49	ng	-0.05
23) Nitrobenzene-d5	7.01	82	446793	56.50	ng	-0.06
41) 2,4,6-Tribromophenol	10.25	330	95493	69.31	ng	-0.07
44) 2-Fluorobiphenyl	8.80	172	651744	63.43	ng	-0.07
78) Terphenyl-d14	12.51	244	344455	32.23	ng	-0.08

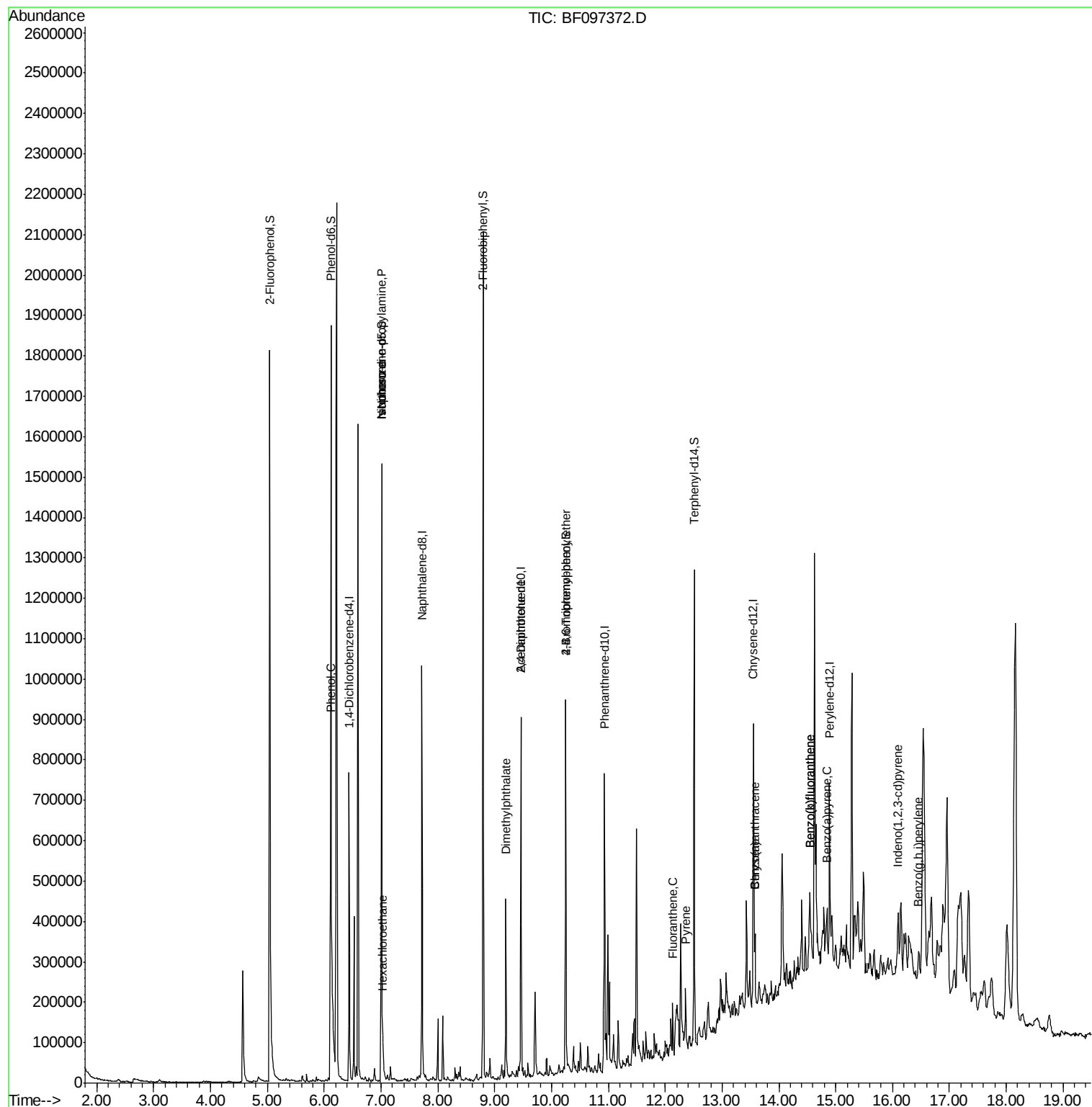
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.13	94	26889	2.66	ng	# 69
18) Hexachloroethane	7.03	117	11641	3.73	ng	# 1
19) n-Nitroso-di-n-propylamine	7.01	70	60250	10.73	ng	# 86
25) Isophorone	7.01	82	439057	28.35	ng	# 67
49) Dimethylphthalate	9.20	163	179518	13.56	ng	99
56) 2,4-Dinitrotoluene	9.46	165	22300	6.91	ng	# 35
66) 4-Bromophenyl-phenylether	10.24	248	6233	2.59	ng	# 1
74) Fluoranthene	12.13	202	51102	4.04	ng	96
77) Pyrene	12.36	202	51130	2.87	ng	98
80) Benzo(a)anthracene	13.58	228	57191	4.06	ng	97
82) Chrysene	13.58	228	57191	4.15	ng	98
85) Indeno(1,2,3-cd)pyrene	16.10	276	29823	2.53	ng	# 93
87) Benzo(b)fluoranthene	14.54	252	102085	10.07	ng	# 93
88) Benzo(k)fluoranthene	14.54	252	102085	10.56	ng	# 96
89) Benzo(a)pyrene	14.84	252	43963	4.74	ng	# 89
91) Benzo(g,h,i)perylene	16.46	276	31543	3.95	ng	94

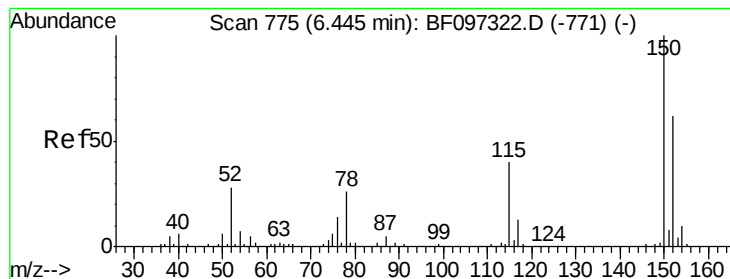
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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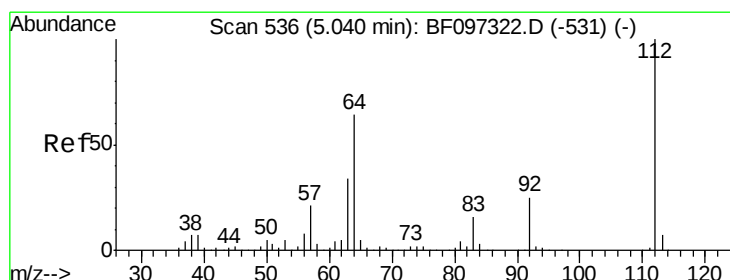
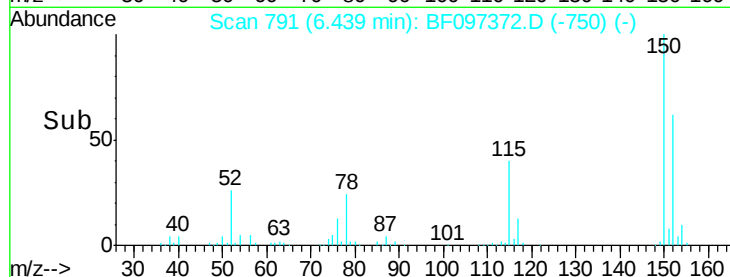
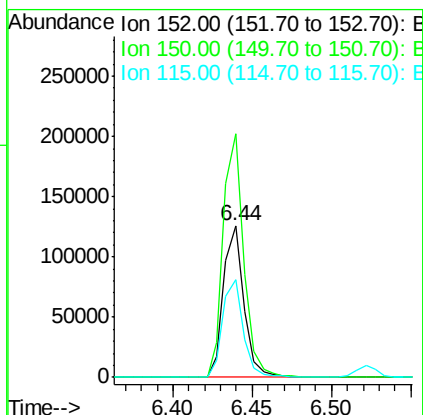
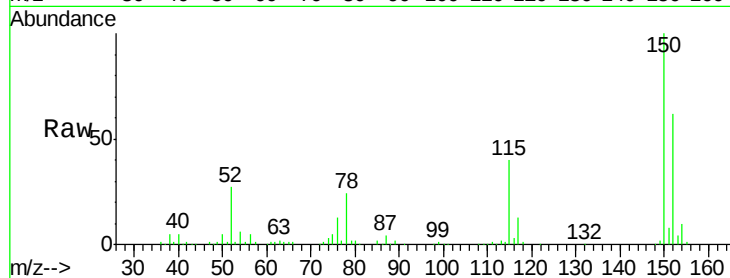


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.44 min Scan# 791
Delta R.T. -0.06 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Instrument :
BNA_F
ClientSampleId :
HARDWICK-SOIL-COMP

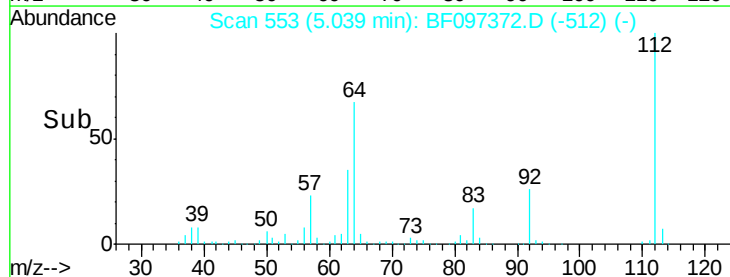
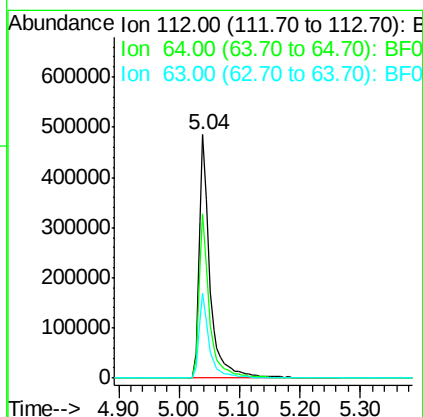
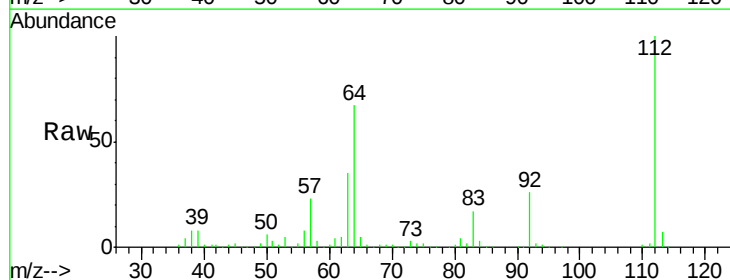
Tot Ion:152 Resp: 112691
Ion Ratio Lower Upper
152 100
150 160.4 126.2 189.2
115 64.2 52.2 78.2

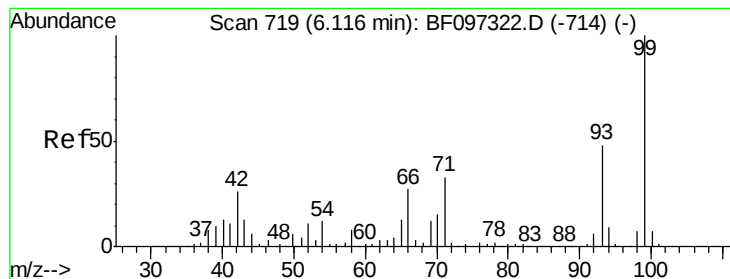


#5

2-Fluorophenol
Concen: 82.61 ng
RT: 5.04 min Scan# 553
Delta R.T. -0.06 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Tgt Ion:112 Resp: 617545
Ion Ratio Lower Upper
112 100
64 67.3 46.0 69.0
63 34.7 23.4 35.0





#7

Phenol-d6

Concen: 91.49 ng

RT: 6.12 min Scan# 736

Delta R.T. -0.05 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

Instrument :

BNA_F

ClientSampleId :

HARDWICK-SOIL-COMP

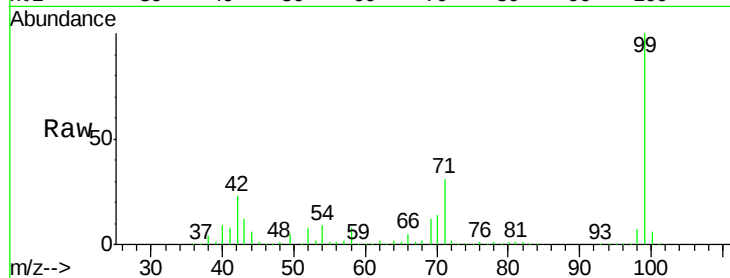
Tot Ion: 99 Resp: 780756

Ion Ratio Lower Upper

99 100

42 22.9 13.5 20.3#

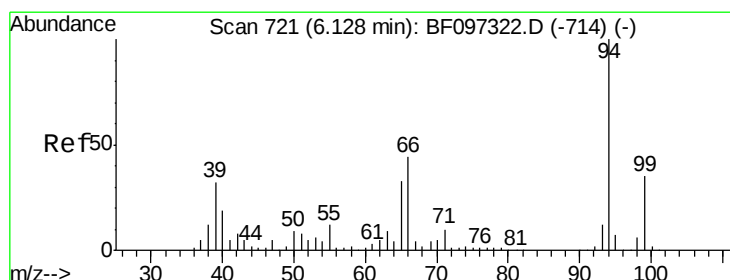
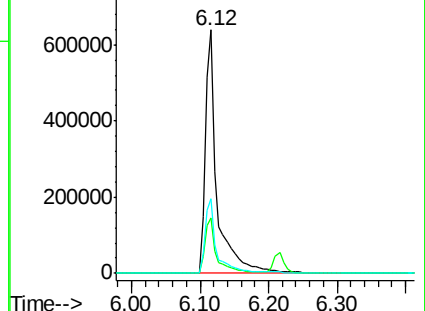
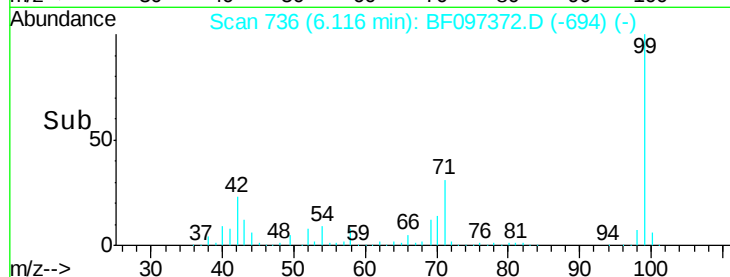
71 30.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.66 ng

RT: 6.13 min Scan# 738

Delta R.T. -0.05 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

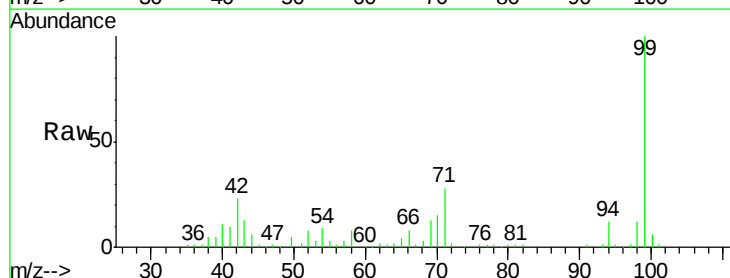
Tgt Ion: 94 Resp: 26889

Ion Ratio Lower Upper

94 100

65 36.8 9.9 49.9

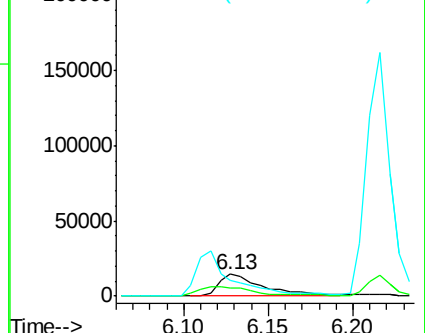
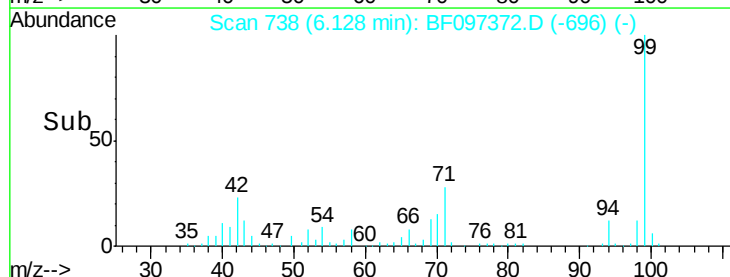
66 71.3 23.1 63.1#

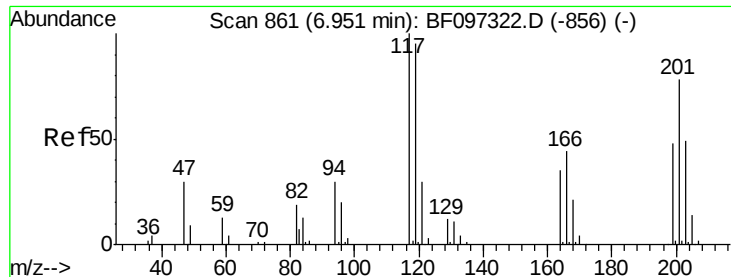


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

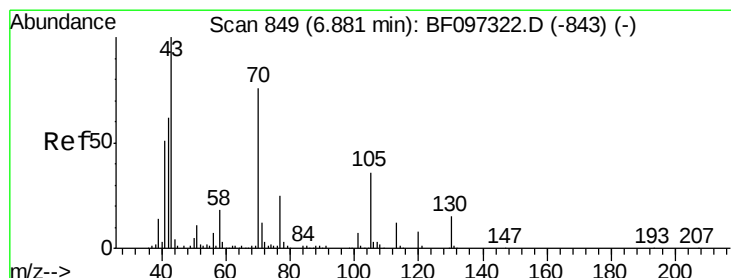
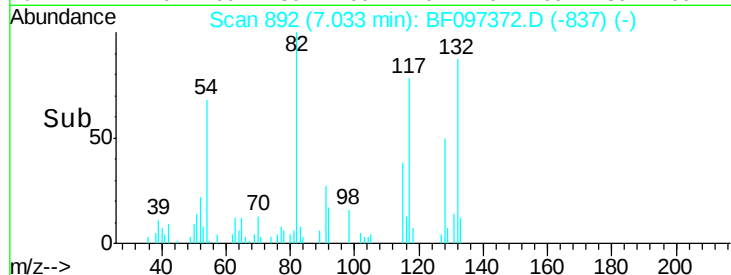
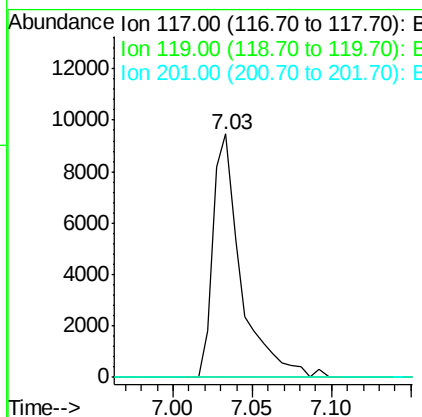
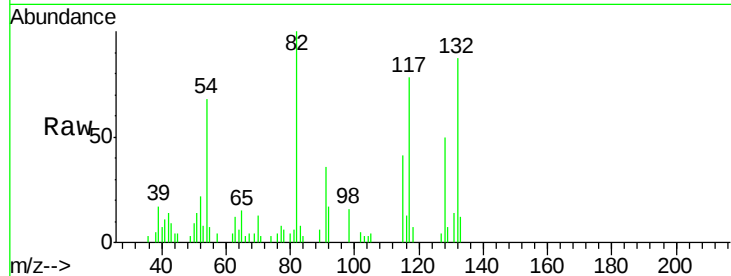




#18
Hexachloroethane
Concen: 3.73 ng
RT: 7.03 min Scan# 892
Delta R.T. 0.02 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

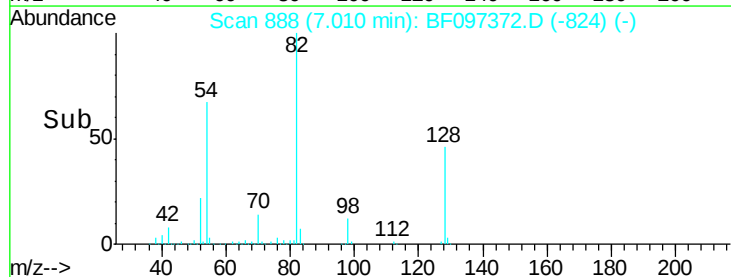
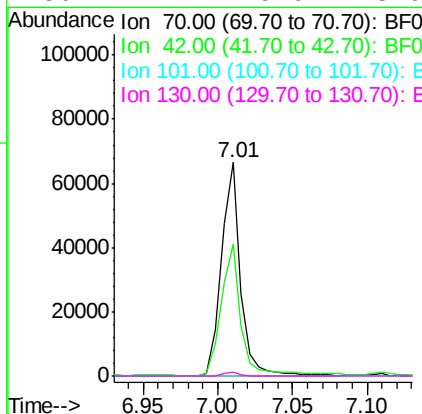
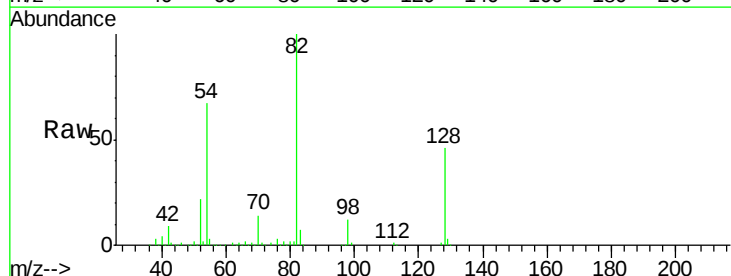
Instrument :
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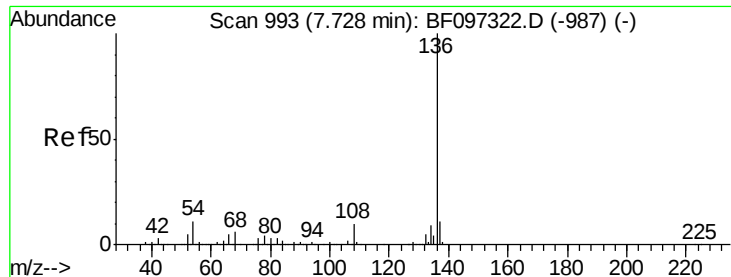
Tot Ion:117 Resp: 11641
Ion Ratio Lower Upper
117 100
119 0.0 77.4 116.0#
201 0.0 94.6 141.8#



#19
n-Nitroso-di-n-propylamine
Concen: 10.73 ng
RT: 7.01 min Scan# 888
Delta R.T. 0.08 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Tgt Ion: 70 Resp: 60250
Ion Ratio Lower Upper
70 100
42 62.0 47.2 70.8
101 0.0 7.2 10.8#
130 2.1 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.72 min Scan# 1009

Delta R.T. -0.06 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

Instrument :

BNA_F

ClientSampleId :

HARDWICK-SOIL-COMP

Tot Ion:136 Resp: 463946

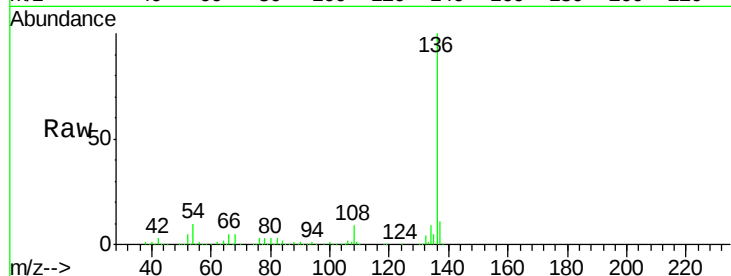
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 10.4 4.9 7.3#

68 5.4 4.1 6.1

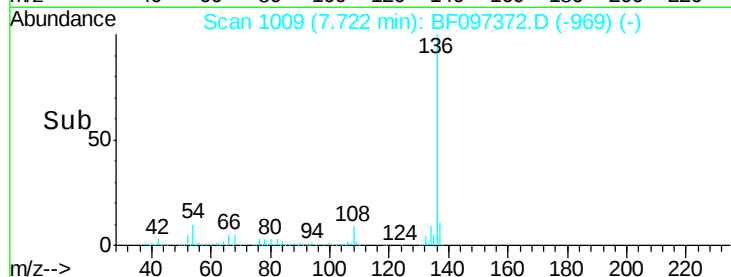


Abundance Ion 136.00 (135.70 to 136.70): E

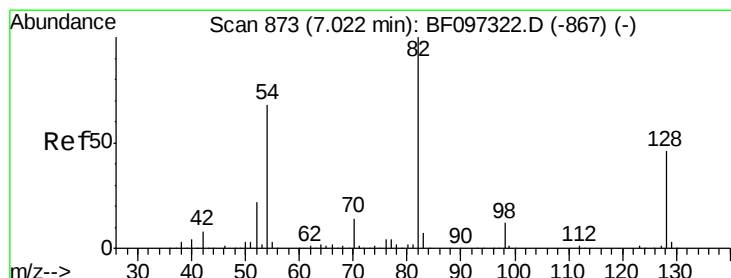
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time--> 7.60 7.70 7.80 7.90



#23

Nitrobenzene-d5

Concen: 56.50 ng

RT: 7.01 min Scan# 888

Delta R.T. -0.06 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

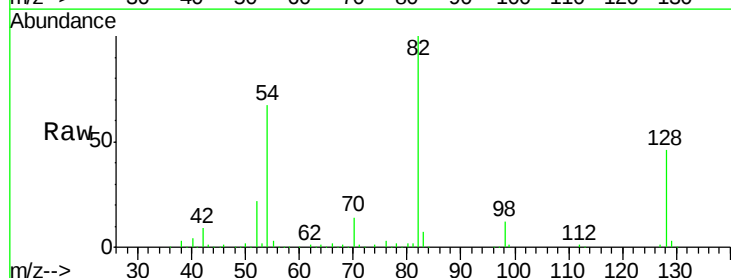
Tgt Ion: 82 Resp: 446793

Ion Ratio Lower Upper

82 100

128 46.2 34.0 51.0

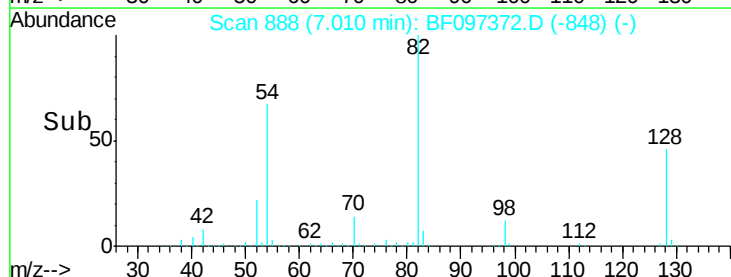
54 67.3 42.2 63.2#



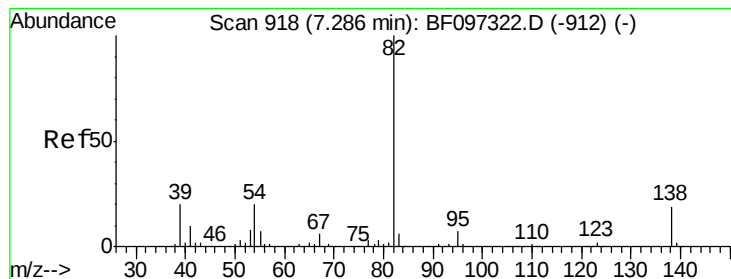
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time--> 6.90 7.00 7.10 7.20



#25

Isophorone

Concen: 28.35 ng

RT: 7.01 min Scan# 888

Delta R.T. -0.33 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

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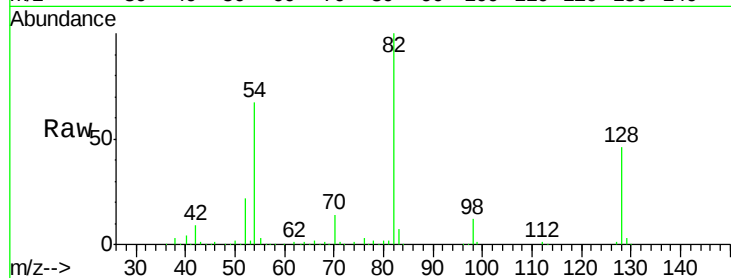
Tot Ion: 82 Resp: 439057

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

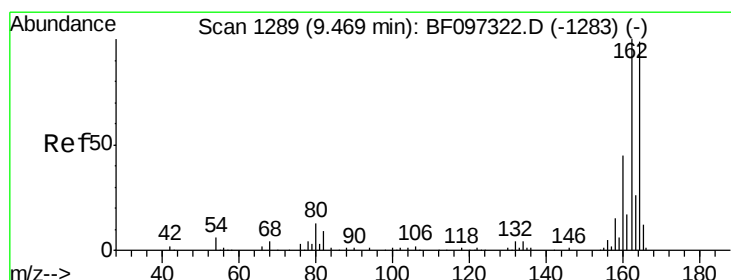
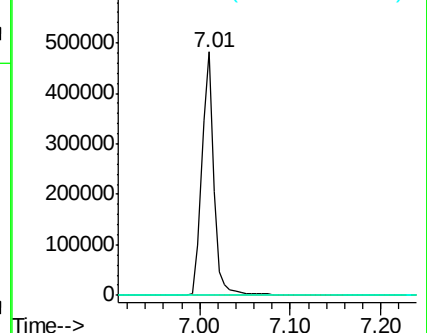
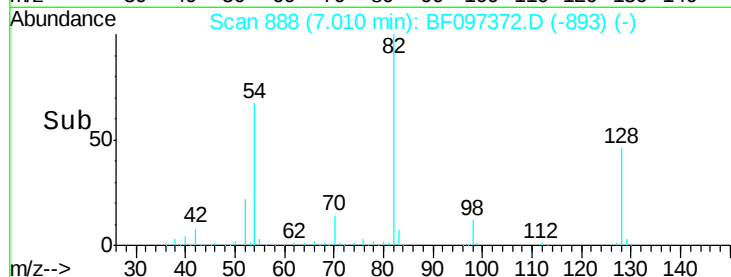
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.46 min Scan# 1305

Delta R.T. -0.07 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

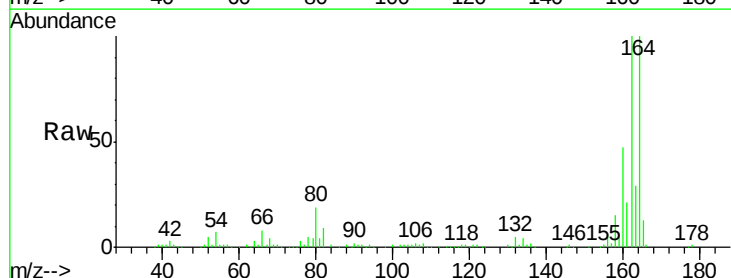
Tgt Ion:164 Resp: 174386

Ion Ratio Lower Upper

164 100

162 100.1 82.6 123.8

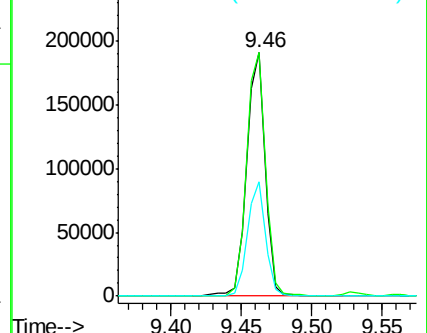
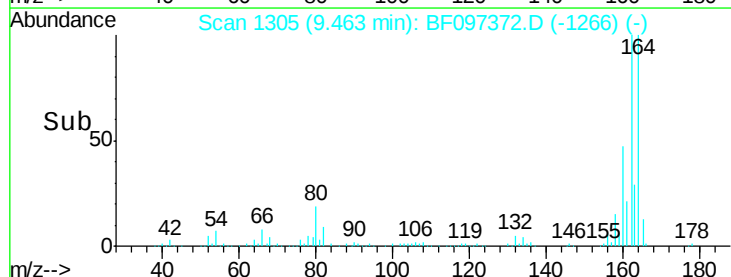
160 47.1 36.2 54.2

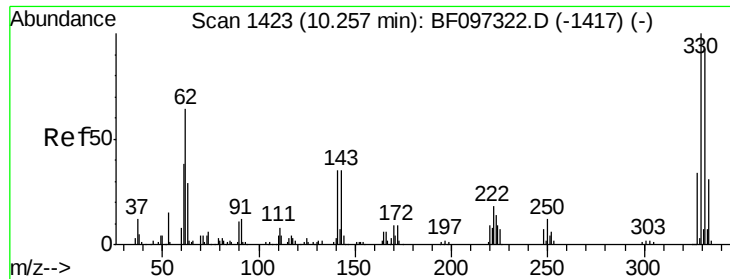


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

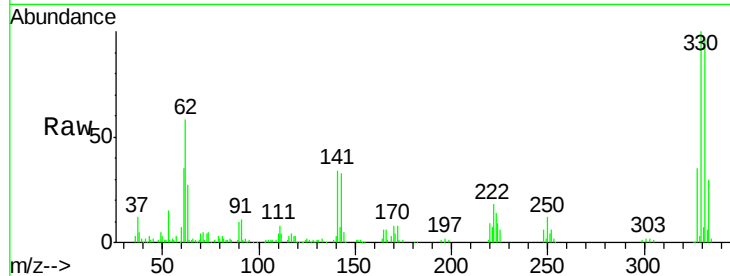




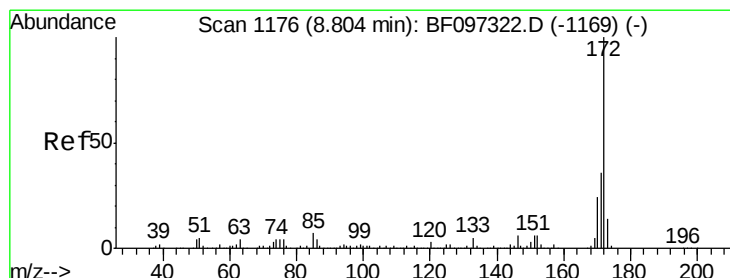
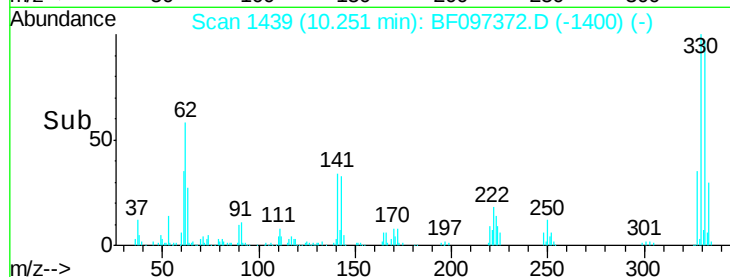
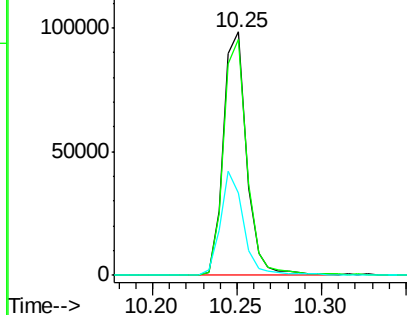
#41
 2,4,6-Tribromophenol
 Concen: 69.31 ng
 RT: 10.25 min Scan# 1439
 Delta R.T. -0.07 min
 Lab File: BF097372.D
 Acq: 4 Aug 2017 22:55

Instrument :
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Tot Ion:330 Resp: 95493
 Ion Ratio Lower Upper
 330 100
 332 97.7 76.6 115.0
 141 42.0 31.4 47.2

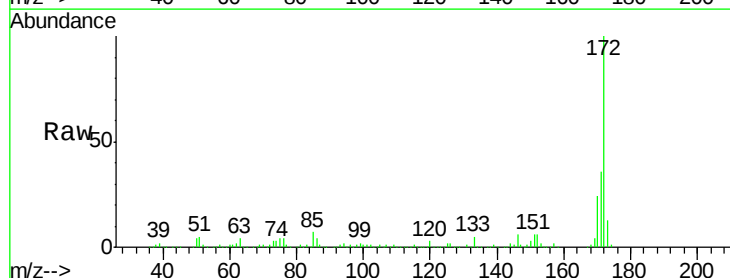


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

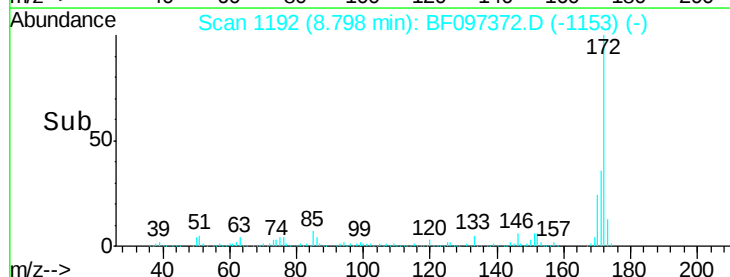
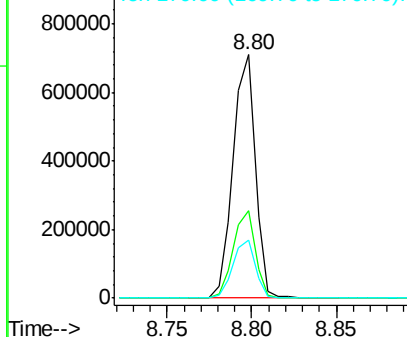


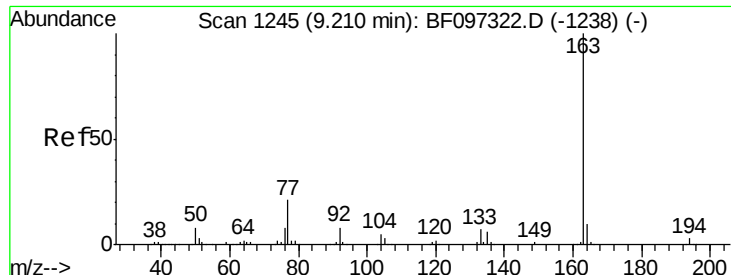
#44
 2-Fluorobiphenyl
 Concen: 63.43 ng
 RT: 8.80 min Scan# 1192
 Delta R.T. -0.07 min
 Lab File: BF097372.D
 Acq: 4 Aug 2017 22:55

Tgt Ion:172 Resp: 651744
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.6 44.4
 170 24.0 19.8 29.8



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

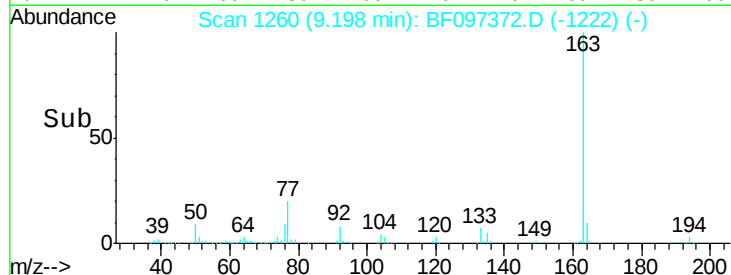
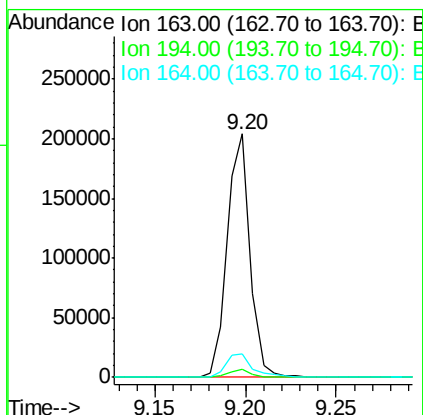
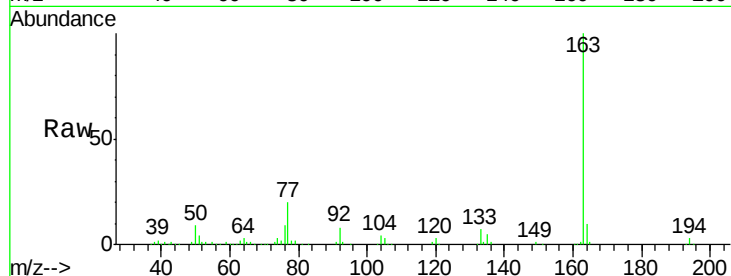




#49
Dimethylphthalate
Concen: 13.56 ng
RT: 9.20 min Scan# 1260
Delta R.T. -0.08 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

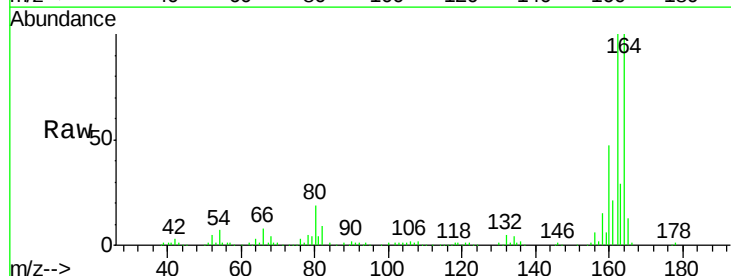
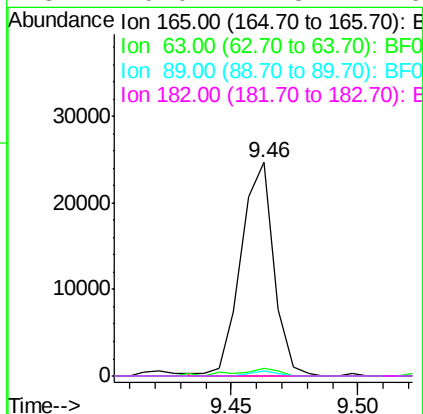
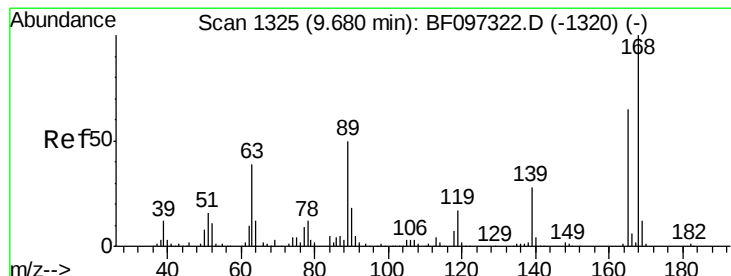
Instrument :
BNA_F
ClientSampleId :
HARDWICK-SOIL-COMP

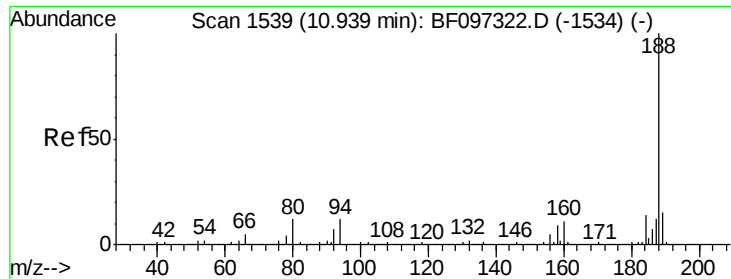
Tot Ion:163 Resp: 179518
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 9.9 8.4 12.6



#56
2,4-Dinitrotoluene
Concen: 6.91 ng
RT: 9.46 min Scan# 1305
Delta R.T. -0.27 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Tgt Ion:165 Resp: 22300
Ion Ratio Lower Upper
165 100
63 3.7 25.4 38.0#
89 2.4 46.4 69.6#
182 0.0 1.8 2.6#

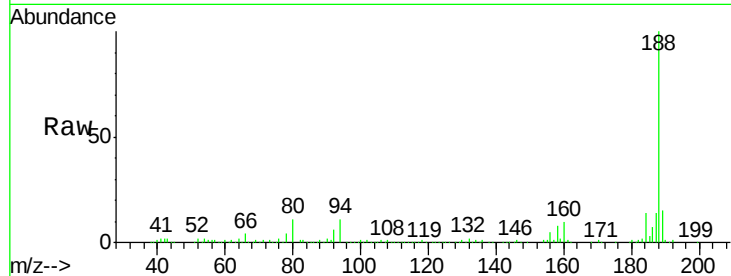




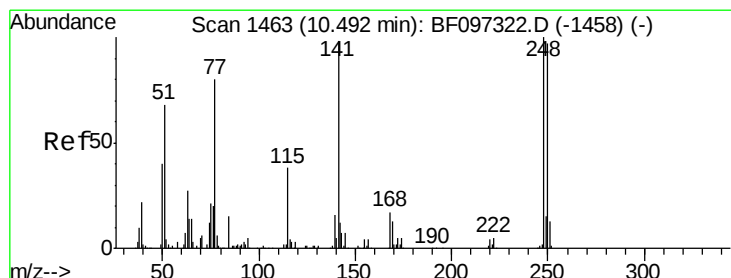
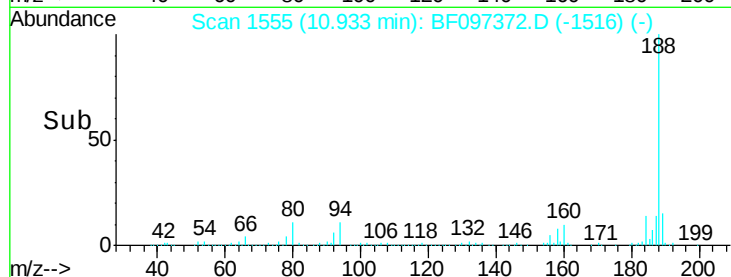
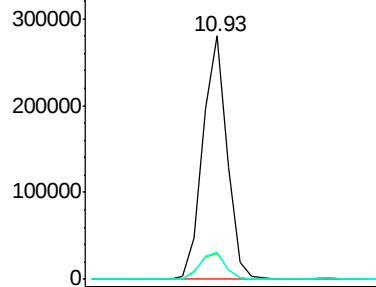
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.93 min Scan# 1555
Delta R.T. -0.07 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Instrument :
BNA_F
ClientSampleId :
HARDWICK-SOIL-COMP

Tot Ion:188 Resp: 240996
Ion Ratio Lower Upper
188 100
94 10.8 9.4 14.2
80 11.3 10.2 15.2

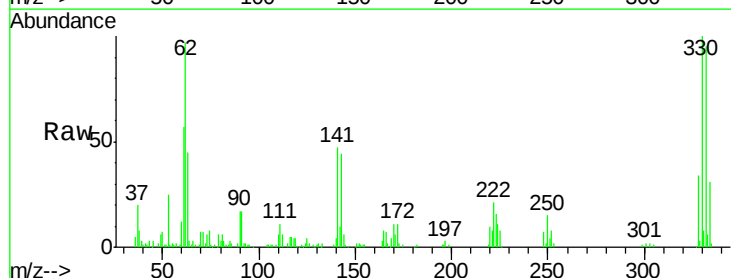


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

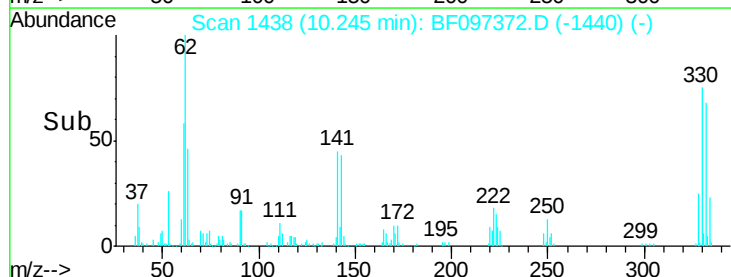
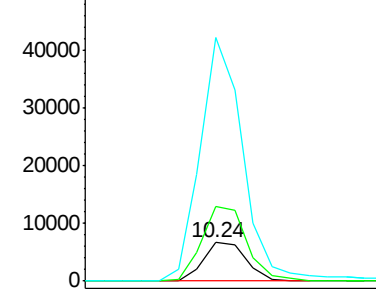


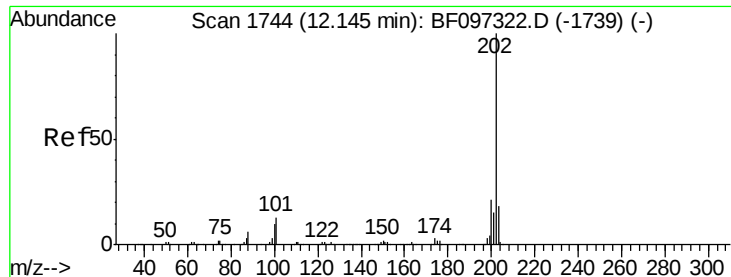
#66
4-Bromophenyl-phenylether
Concen: 2.59 ng
RT: 10.24 min Scan# 1438
Delta R.T. -0.31 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Tgt Ion:248 Resp: 6233
Ion Ratio Lower Upper
248 100
250 195.5 76.8 115.2#
141 635.4 68.6 103.0#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

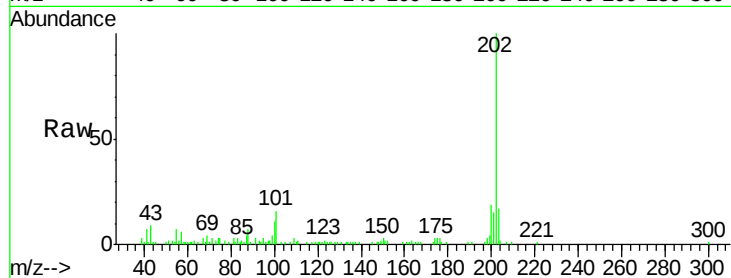




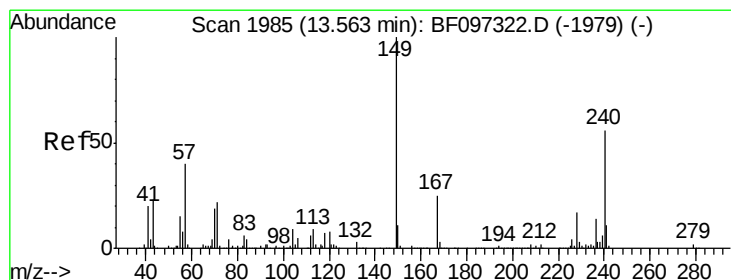
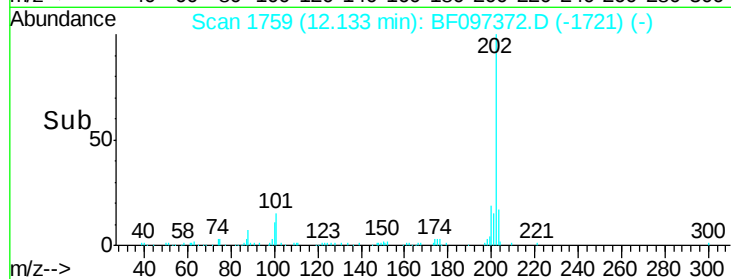
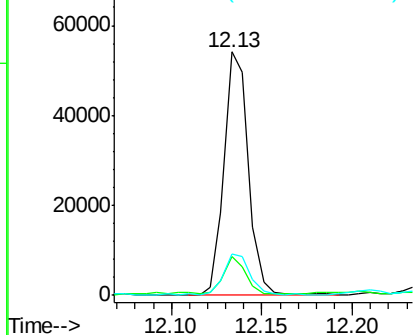
#74
 Fluoranthene
 Concen: 4.04 ng
 RT: 12.13 min Scan# 1759
 Delta R.T. -0.08 min
 Lab File: BF097372.D
 Acq: 4 Aug 2017 22:55

Instrument :
 BNA_F
 ClientSampleId :
 HARDWICK-SOIL-COMP

Tot Ion	Ratio	Lower	Upper
202	100		
101	15.7	0.0	33.2
203	17.2	0.0	38.1

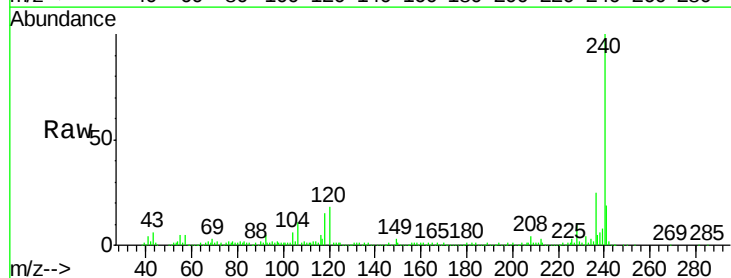


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

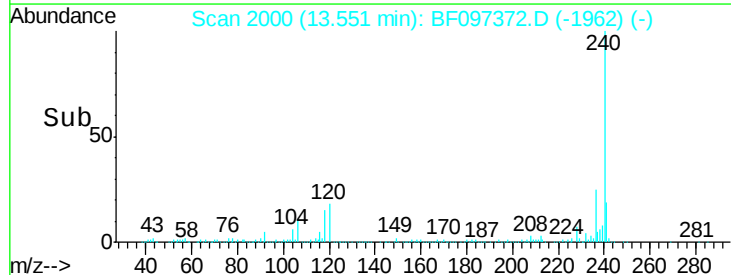
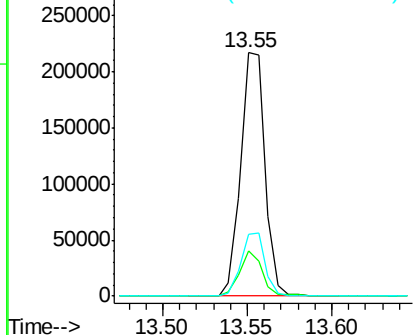


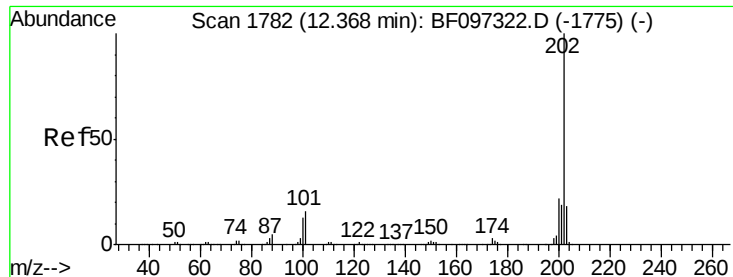
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.55 min Scan# 2000
 Delta R.T. -0.08 min
 Lab File: BF097372.D
 Acq: 4 Aug 2017 22:55

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.4	5.8	8.8#
236	25.3	20.5	30.7



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

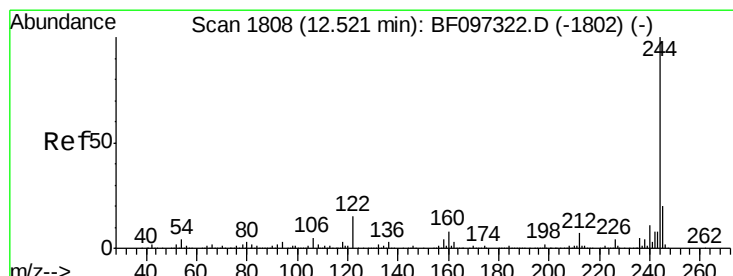
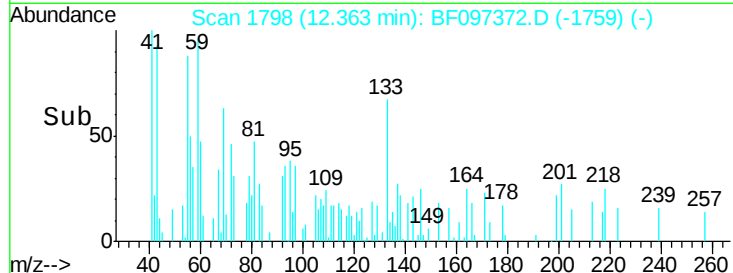
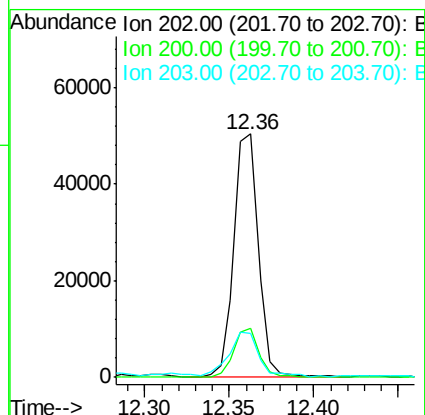
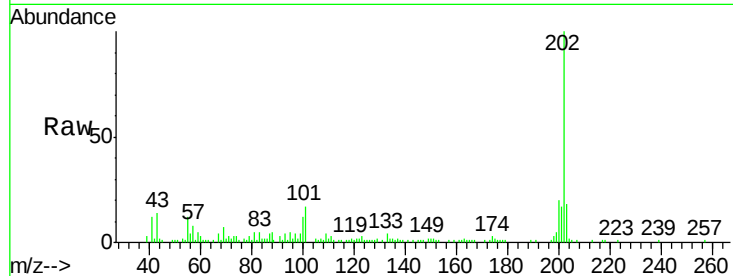




#77
Pvrene
Concen: 2.87 ng
RT: 12.36 min Scan# 1798
Delta R.T. -0.07 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

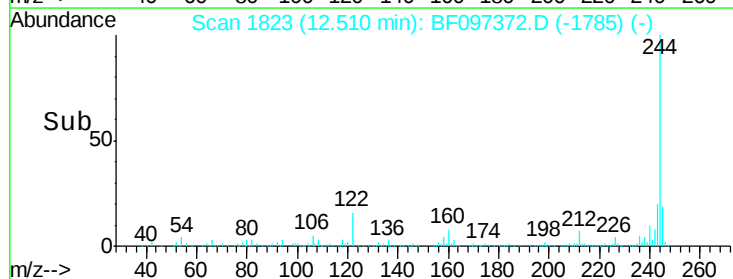
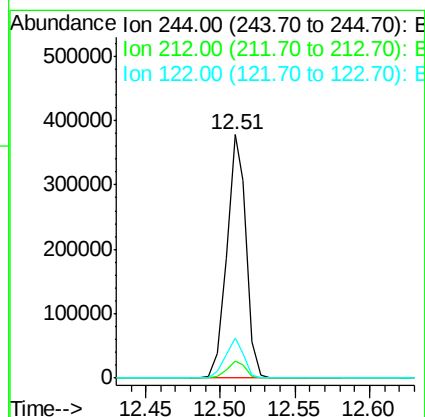
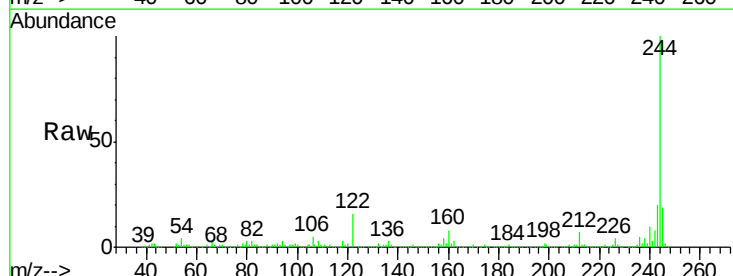
Instrument :
BNA_F
ClientSampleId :
HARDWICK-SOIL-COMP

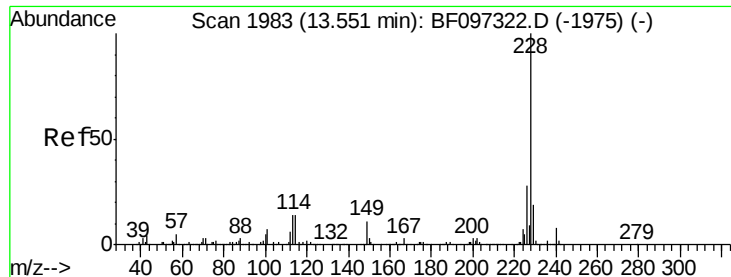
Tot Ion:202 Resp: 51130
Ion Ratio Lower Upper
202 100
200 20.2 17.6 26.4
203 18.0 14.4 21.6



#78
Terphenyl-d14
Concen: 32.23 ng
RT: 12.51 min Scan# 1823
Delta R.T. -0.08 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Tgt Ion:244 Resp: 344455
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 16.4 10.3 15.5#





#80

Benzo(a)anthracene

Concen: 4.06 ng

RT: 13.58 min Scan# 2005

Delta R.T. -0.04 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

Instrument :

BNA_F

ClientSampleId :

HARDWICK-SOIL-COMP

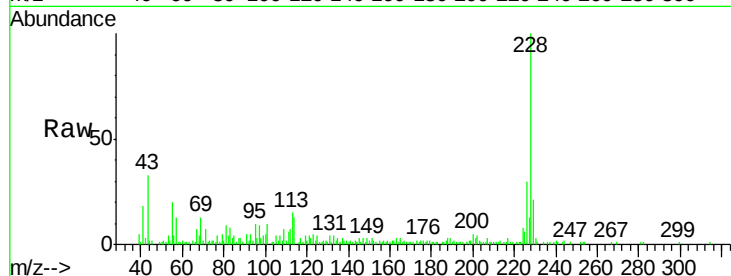
Tot Ion:228 Resp: 57191

Ion Ratio Lower Upper

228 100

226 30.3 22.6 33.8

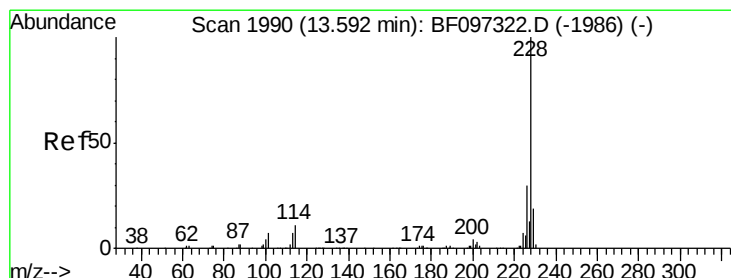
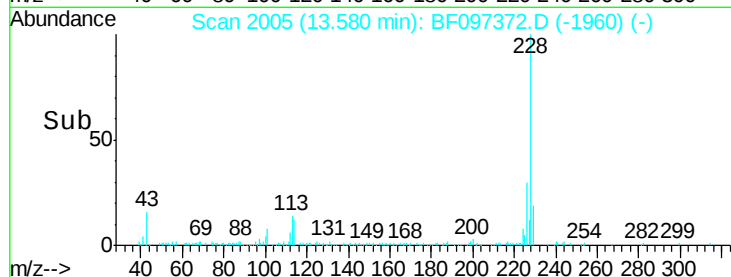
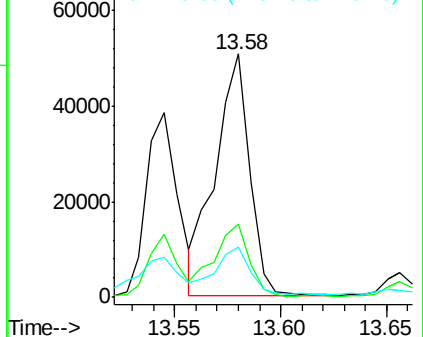
229 20.9 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 4.15 ng

RT: 13.58 min Scan# 2005

Delta R.T. -0.08 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

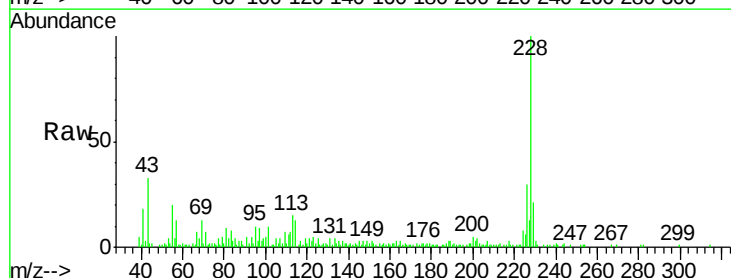
Tgt Ion:228 Resp: 57191

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

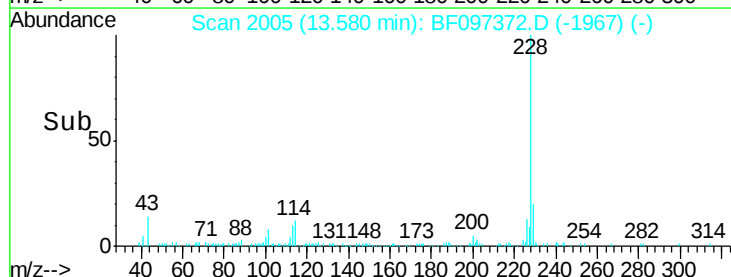
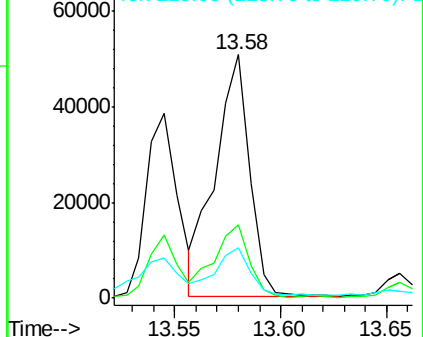
229 20.9 15.8 23.6

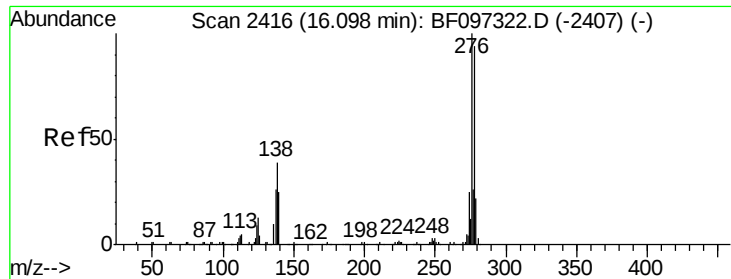


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

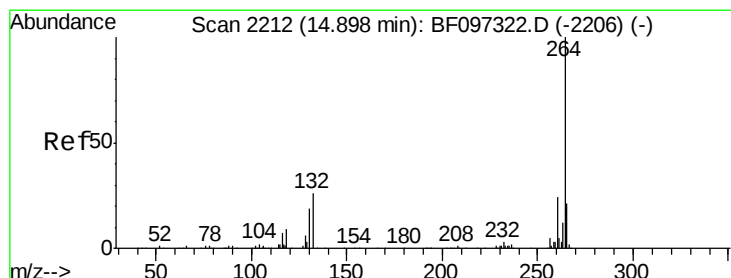
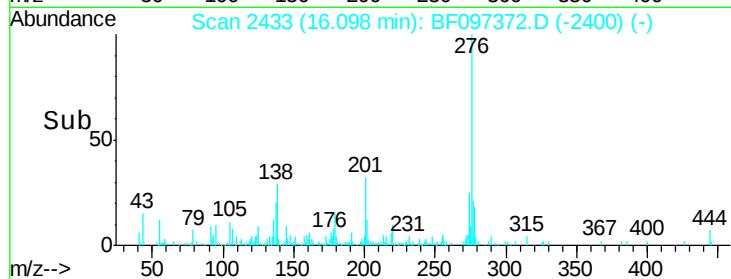
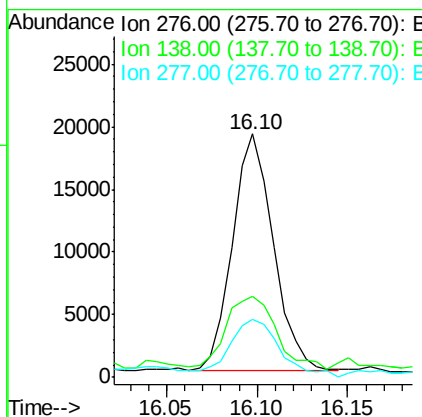
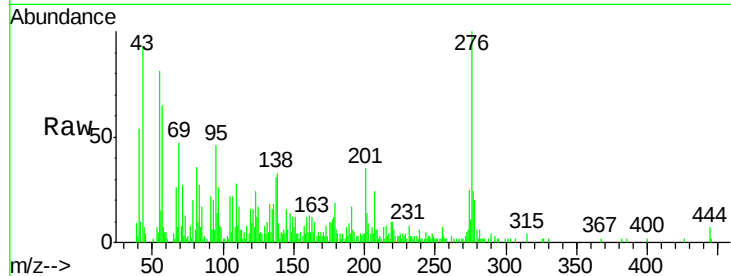




#85
Indeno(1,2,3-cd)pyrene
Concen: 2.53 ng
RT: 16.10 min Scan# 2433
Delta R.T. -0.11 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

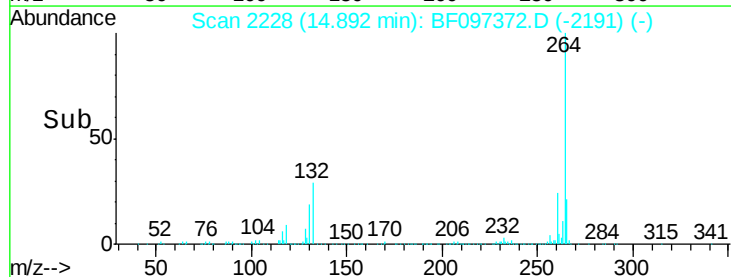
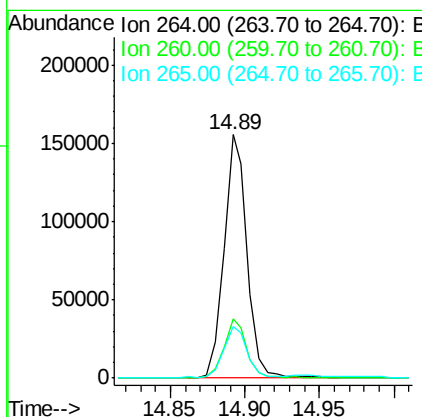
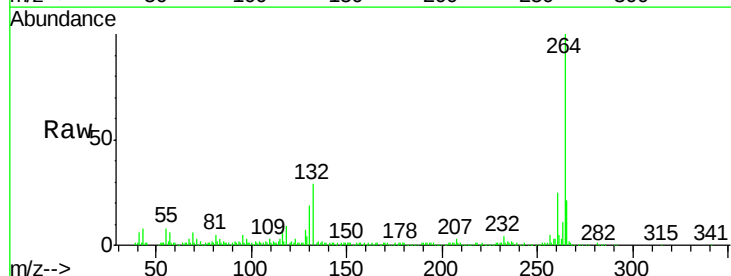
Instrument :
BNA_F
ClientSampleId :
HARDWICK-SOIL-COMP

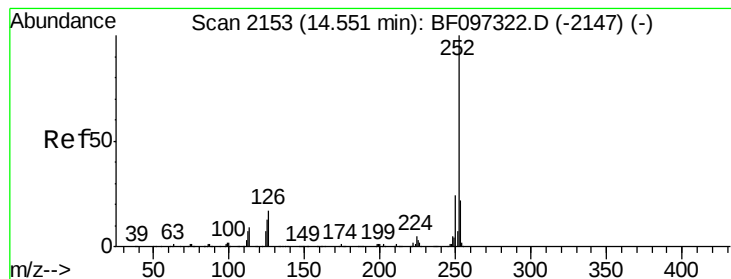
Tot Ion:276 Resp: 29823
Ion Ratio Lower Upper
276 100
138 37.7 27.8 41.6
277 30.6 20.2 30.4#



#86
Perylene-d12
Concen: 20.00 ng
RT: 14.89 min Scan# 2228
Delta R.T. -0.08 min
Lab File: BF097372.D
Acq: 4 Aug 2017 22:55

Tgt Ion:264 Resp: 168712
Ion Ratio Lower Upper
264 100
260 24.6 19.5 29.3
265 21.2 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 10.07 ng

RT: 14.54 min Scan# 2169

Delta R.T. -0.07 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

Instrument :

BNA_F

ClientSampleId :

HARDWICK-SOIL-COMP

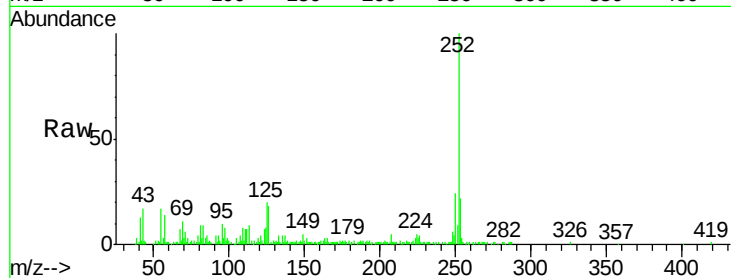
Tot Ion:252 Resp: 102085

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

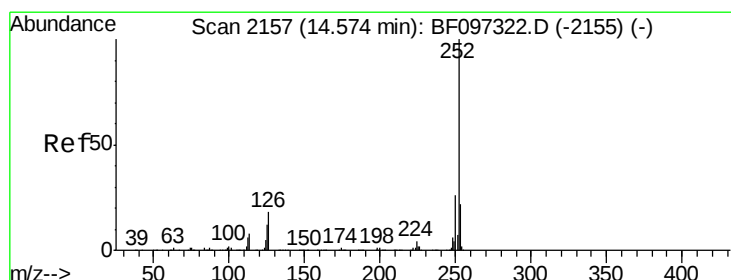
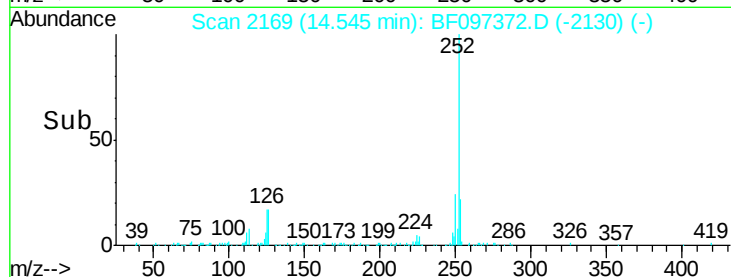
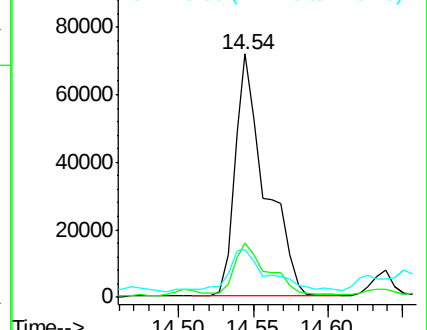
125 19.8 9.8 14.8#



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: 10.56 ng

RT: 14.54 min Scan# 2169

Delta R.T. -0.10 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

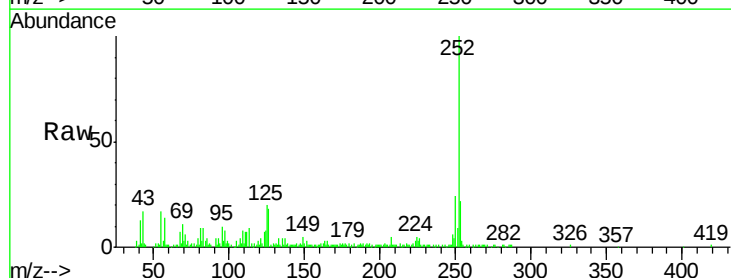
Tgt Ion:252 Resp: 102085

Ion Ratio Lower Upper

252 100

253 22.5 18.4 27.6

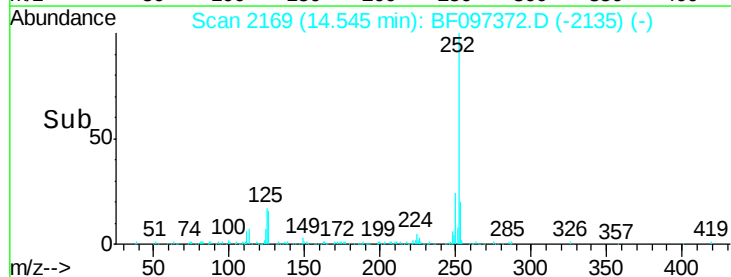
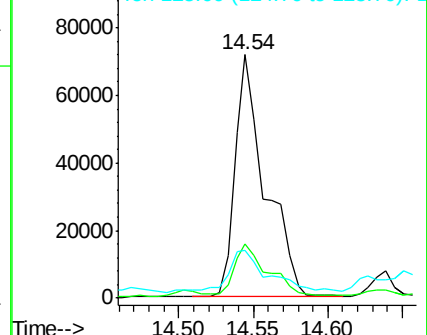
125 19.8 13.1 19.7#

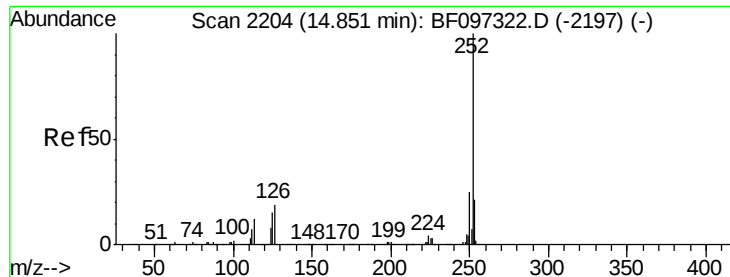


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.74 ng

RT: 14.84 min Scan# 2220

Delta R.T. -0.08 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

Instrument :

BNA_F

ClientSampleId :

HARDWICK-SOIL-COMP

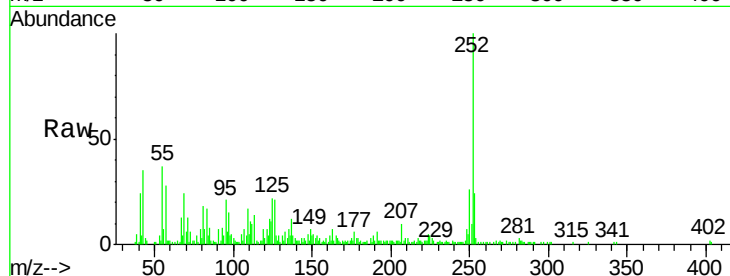
Tot Ion:252 Resp: 43963

Ion Ratio Lower Upper

252 100

253 24.5 17.5 26.3

125 22.1 11.0 16.4#

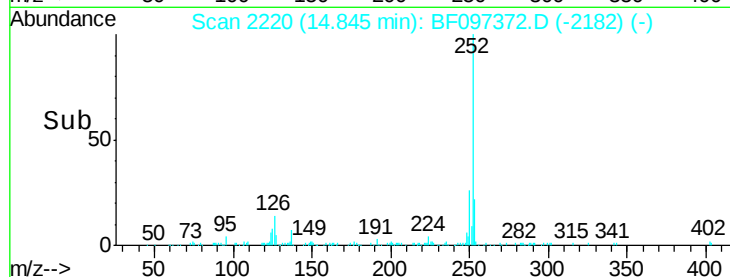


Abundance Ion 252.00 (251.70 to 252.70): E

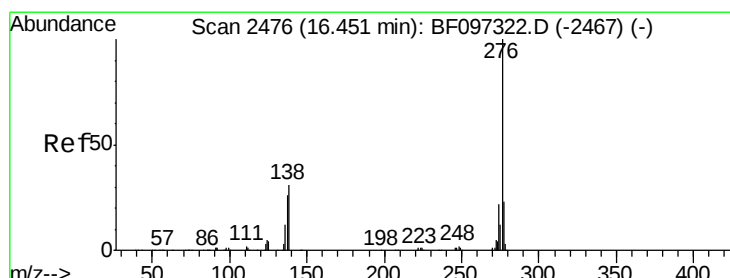
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->



Time-->



#91

Benzo(g,h,i)perylene

Concen: 3.95 ng

RT: 16.46 min Scan# 2494

Delta R.T. -0.11 min

Lab File: BF097372.D

Acq: 4 Aug 2017 22:55

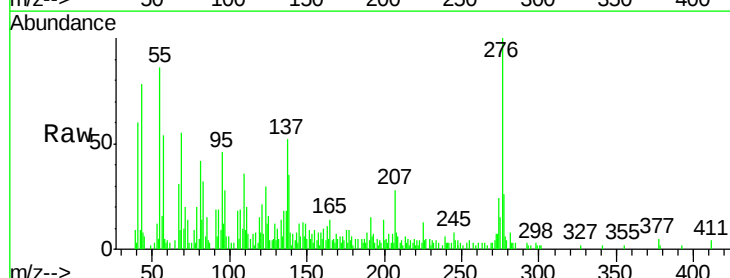
Tgt Ion:276 Resp: 31543

Ion Ratio Lower Upper

276 100

277 26.1 18.6 28.0

138 35.4 25.4 38.0

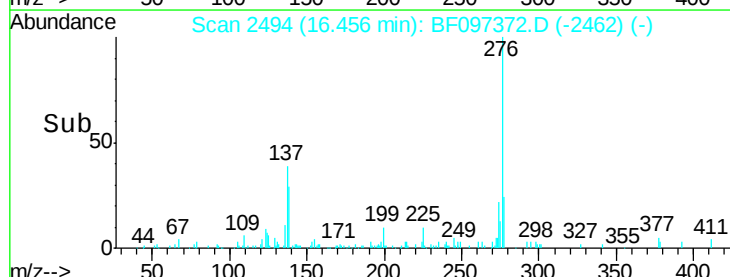


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

Time-->



Time-->