

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051519\
 Data File : BE099615.D
 Acq On : 15 May 2019 13:10
 Operator : JU/SJ
 Sample : K2551-12
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOIL

Quant Time: May 16 12:11:18 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE051419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 14 19:30:50 2019
 Response via : Initial Calibration

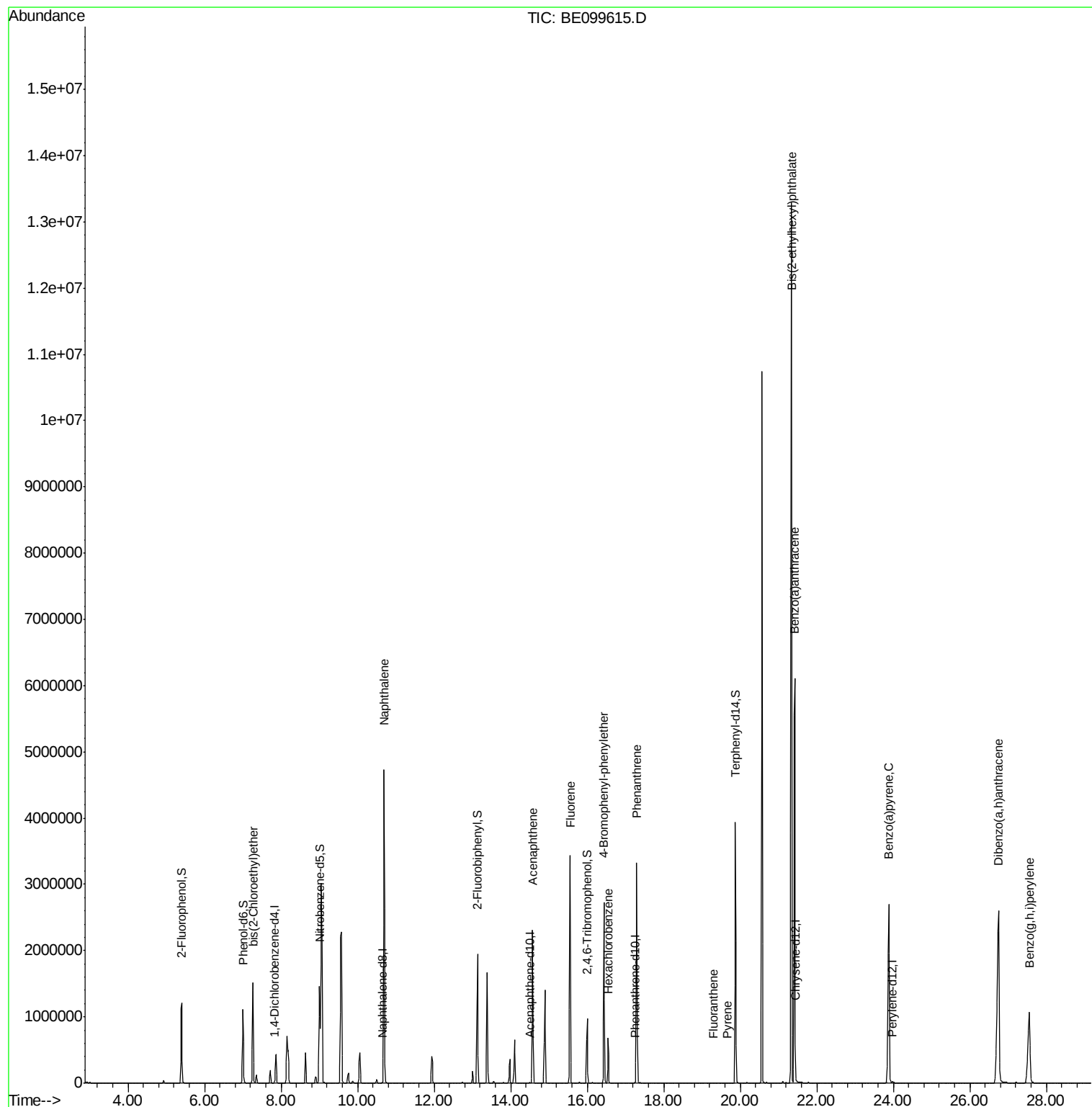
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	8090	0.40	ng	0.01
7) Naphthalene-d8	10.64	136	7437	0.40	ng	0.03
13) Acenaphthene-d10	14.50	164	5024	0.40	ng	0.01
19) Phenanthrene-d10	17.24	188	14056	0.40	ng	0.01
27) Chrysene-d12	21.44	240	18239	0.40	ng	0.03
34) Perylene-d12	23.98	264	20973	0.40	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	733824	31.95	ng	0.02
5) Phenol-d6	7.00	99	1092753	37.54	ng	0.02
8) Nitrobenzene-d5	9.00	82	744418	103.38	ng	0.03
11) 2-Methylnaphthalene-d10	0.00	152	0d	0.00	ng	
14) 2,4,6-Tribromophenol	16.00	330	595443	173.26	ng	0.01
15) 2-Fluorobiphenyl	13.13	172	1755991	90.76	ng	0.03
25) Fluoranthene-d10	0.00	212	0d	0.00	ng	
29) Terphenyl-d14	19.87	244	3852917	117.37	ng	0.01
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.26	93	638824	26.087	ng	90
9) Naphthalene	10.69	128	7494554	94.703	ng	99
17) Acenaphthene	14.57	154	1125113	84.022	ng	98
18) Fluorene	15.55	166	2412513	125.596	ng	100
20) 4-Bromophenyl-phenylether	16.44	248	1455682	179.612	ng	# 89
21) Hexachlorobenzene	16.55	284	627209	78.775	ng	97
23) Phenanthrene	17.30	178	3509706	100.587	ng	97
26) Fluoranthene	19.31	202	1990	0.038	ng	# 95
28) Pyrene	19.67	202	2365	0.051	ng	# 91
30) Benzo(a)anthracene	21.43	228	6494406	117.827	ng	# 88
32) Bis(2-ethylhexyl)phthalate	21.34	149	19842819	233.445	ng	# 98
37) Benzo(a)pyrene	23.88	252	5059101	89.067	ng	# 95
38) Dibenzo(a,h)anthracene	26.75	278	5728060	97.242	ng	# 97
39) Benzo(g,h,i)perylene	27.55	276	3120550	52.679	ng	98

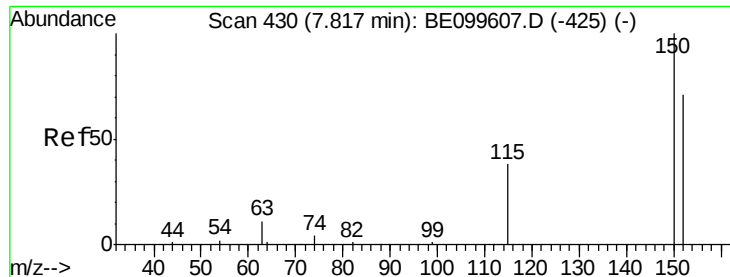
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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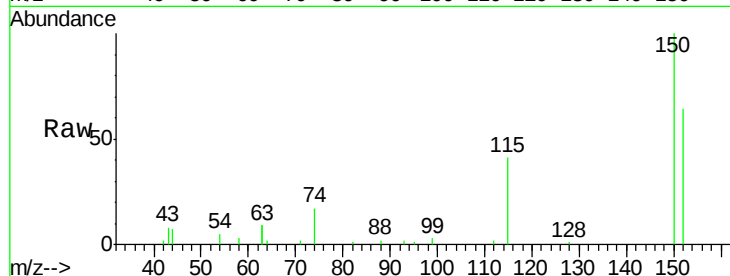


#1

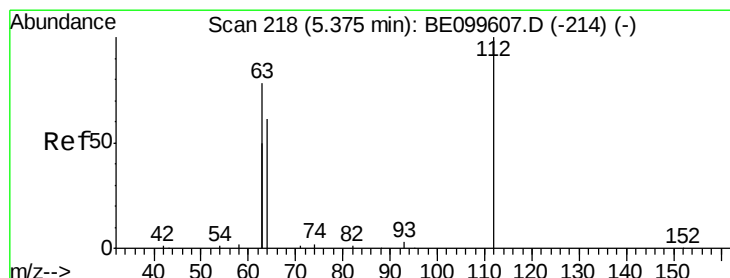
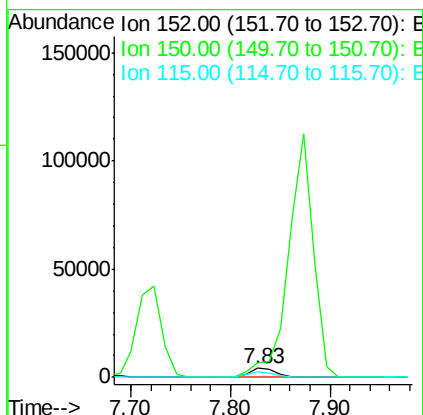
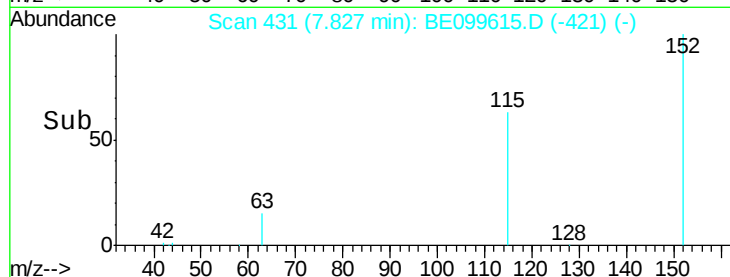
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.83 min Scan# 431
Delta R.T. 0.01 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOIL

Tot Ion:152 Resp: 8090
Ion Ratio Lower Upper
152 100
150 155.9 110.1 165.1
115 64.4 46.2 69.4



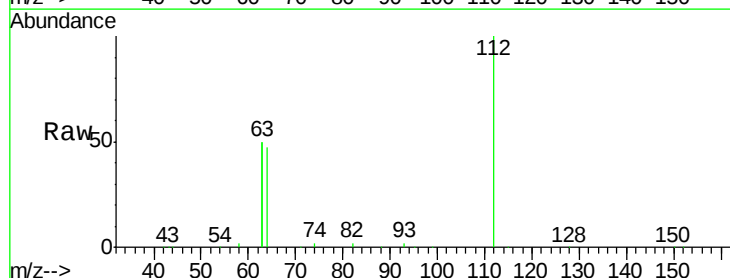
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



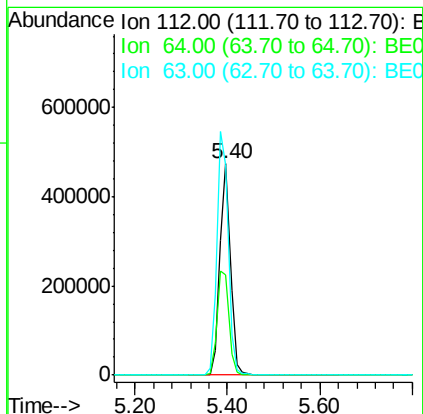
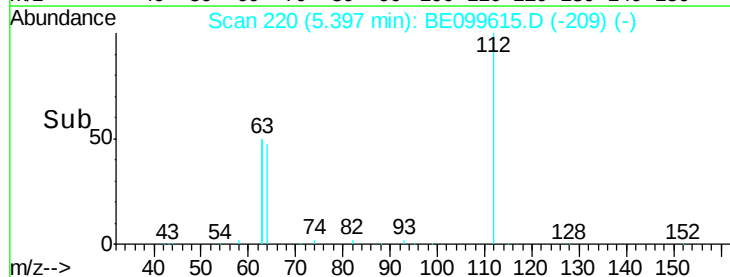
#4

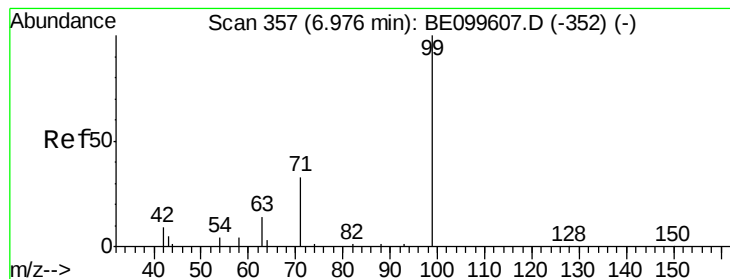
2-Fluorophenol
Concen: 31.953 ng
RT: 5.40 min Scan# 220
Delta R.T. 0.02 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

Tgt Ion:112 Resp: 733824
Ion Ratio Lower Upper
112 100
64 56.2 43.7 65.5
63 125.3 94.0 141.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 37.535 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.02 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

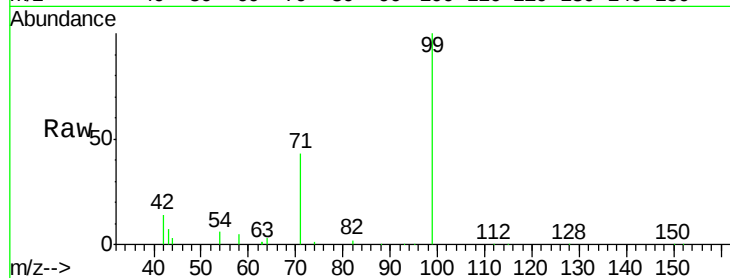
Tot Ion: 99 Resp: 1092753

Ion Ratio Lower Upper

99 100

42 14.9 14.3 21.5

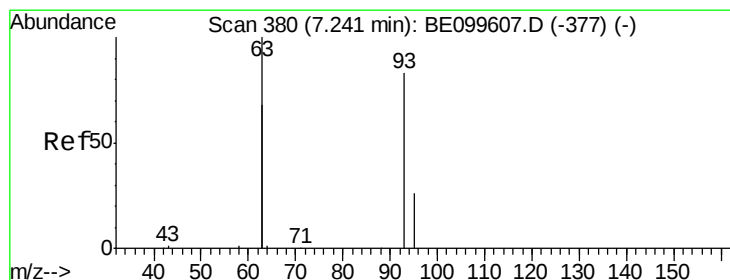
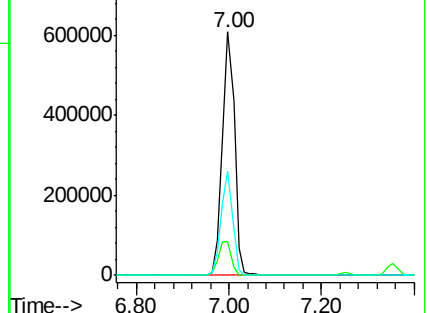
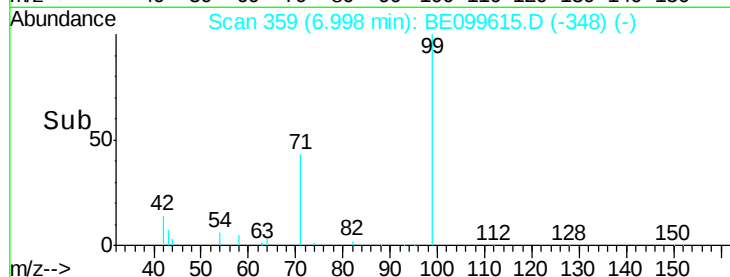
71 40.4 33.1 49.7



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 26.087 ng

RT: 7.26 min Scan# 382

Delta R.T. 0.02 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

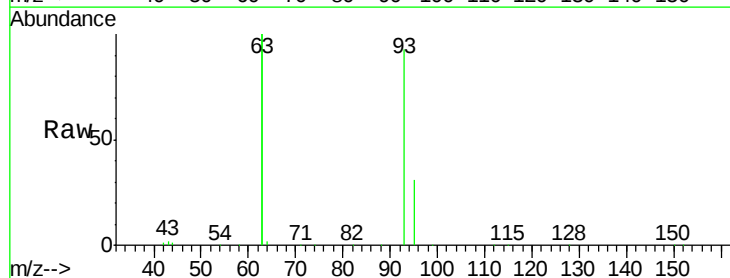
Tgt Ion: 93 Resp: 638824

Ion Ratio Lower Upper

93 100

63 269.7 201.0 301.4

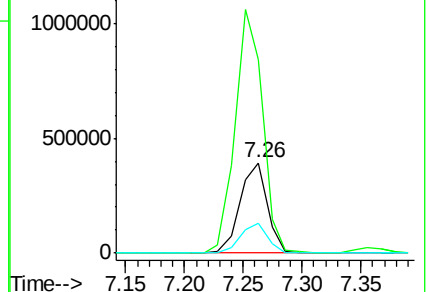
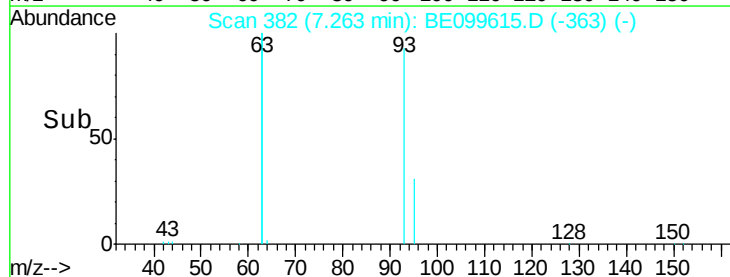
95 32.8 25.0 37.4

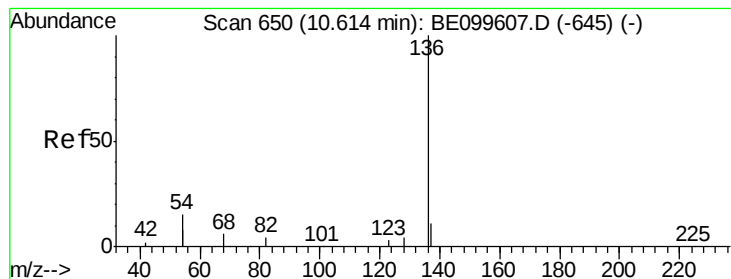


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

Tot Ion:136 Resp: 7437

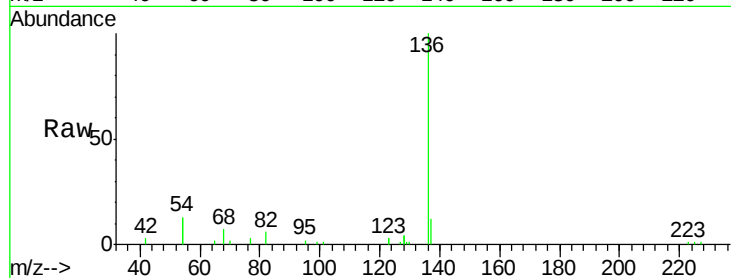
Ion Ratio Lower Upper

136 100

137 12.2 9.7 14.5

54 25.1 23.8 35.8

68 7.0 6.2 9.2

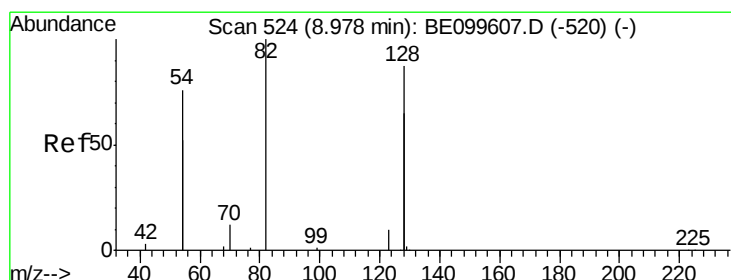
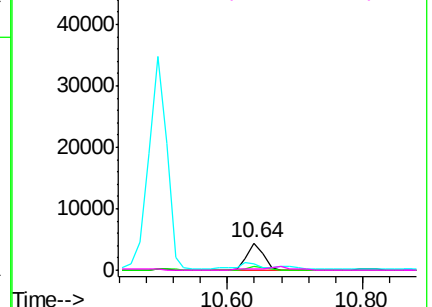
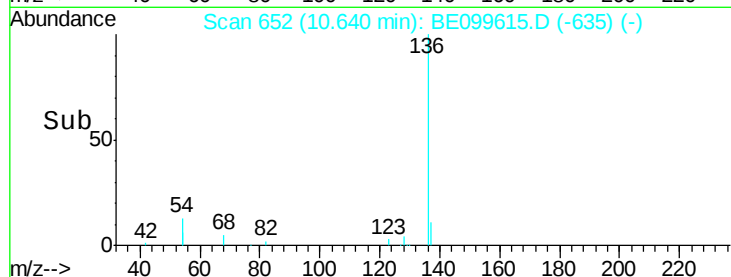


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 103.380 ng

RT: 9.00 min Scan# 526

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

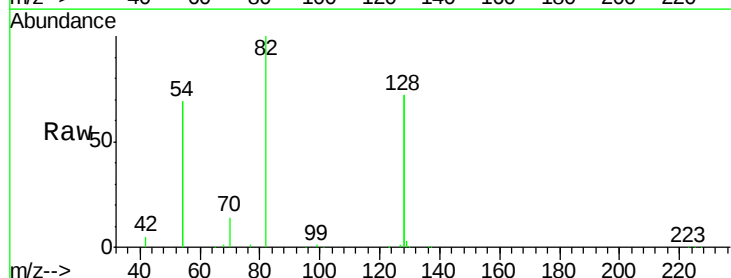
Tgt Ion: 82 Resp: 744418

Ion Ratio Lower Upper

82 100

128 144.2 131.4 197.2

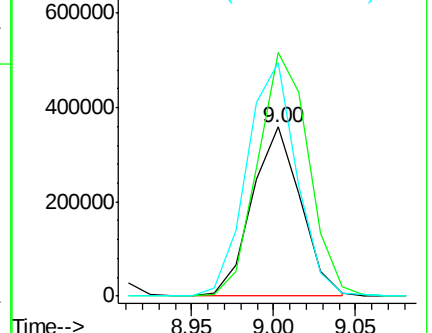
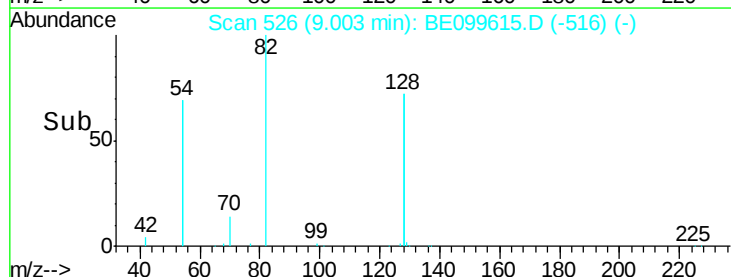
54 137.9 113.9 170.9

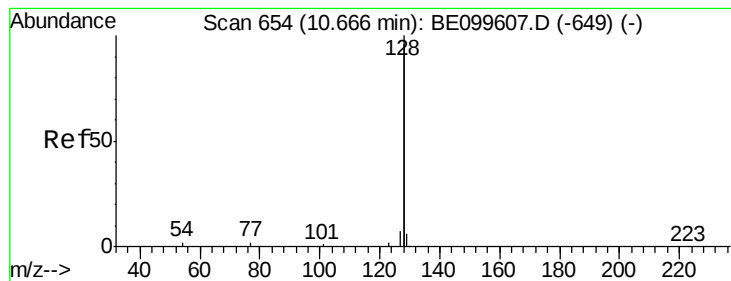


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 94.703 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

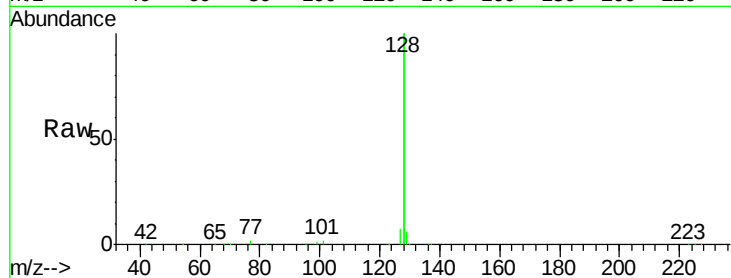
Tot Ion:128 Resp: 7494554

Ion Ratio Lower Upper

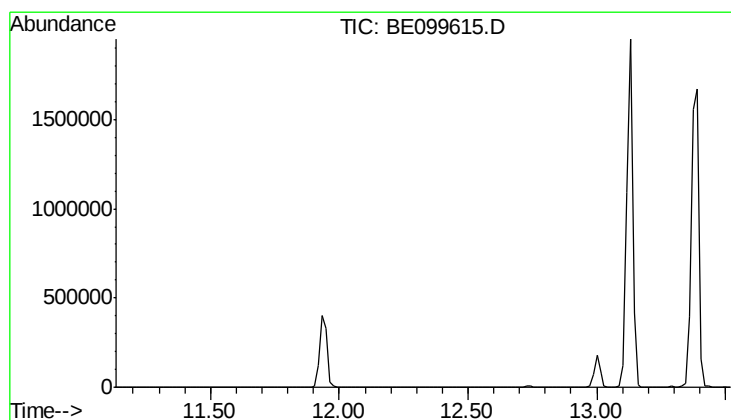
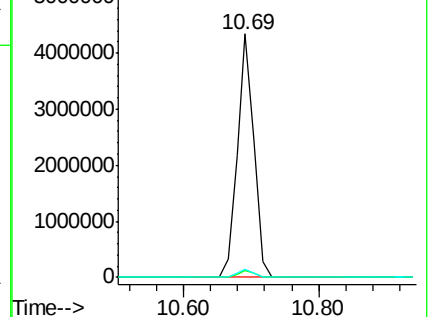
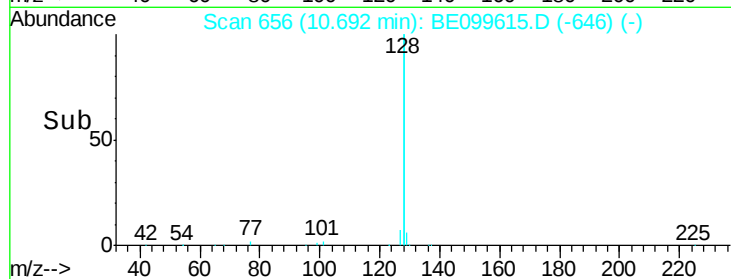
128 100

129 2.8 2.6 4.0

127 3.5 3.0 4.6



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



#11

2-Methylnaphthalene-d10

Concen: 0.000 ng

Expected RT: 12.22 min

Lab File: BE099615.D

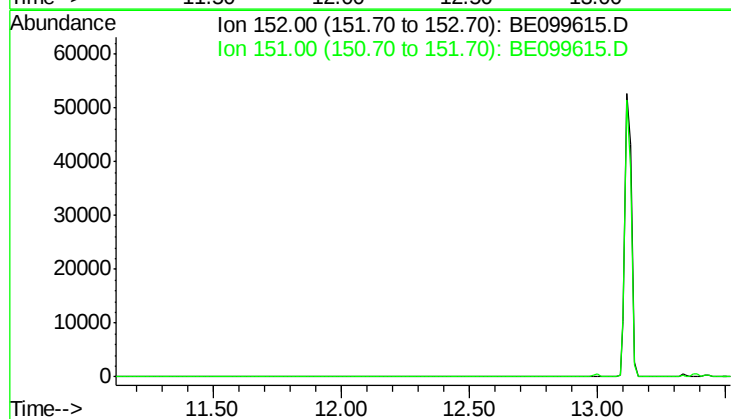
Acq: 15 May 2019 13:10

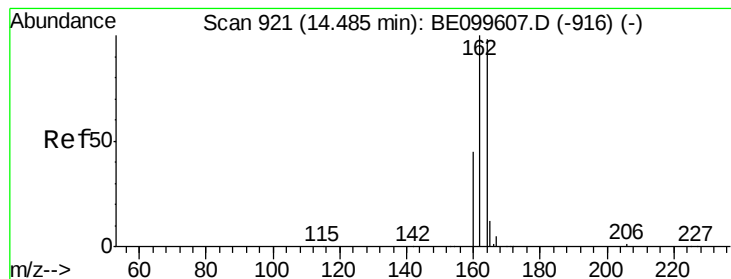
Tgt Ion: 152

Sig Exp Ratio

152 100

151 19.1





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

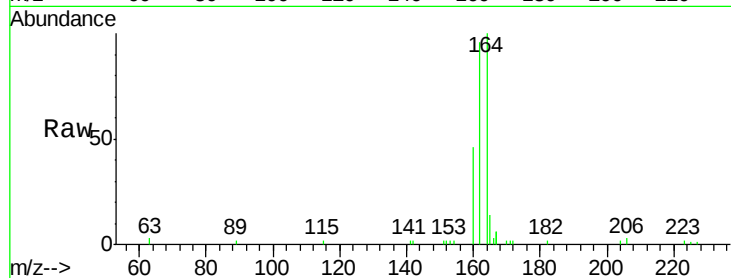
Tot Ion:164 Resp: 5024

Ion Ratio Lower Upper

164 100

162 96.4 81.4 122.0

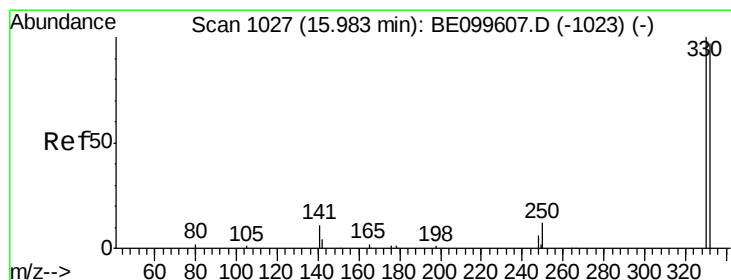
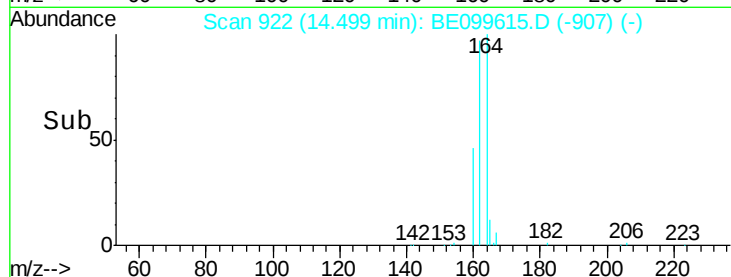
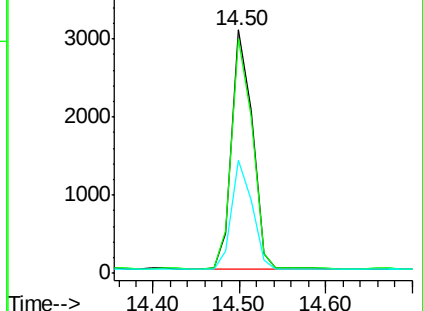
160 46.5 37.4 56.2



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



#14

2,4,6-Tribromophenol

Concen: 173.260 ng

RT: 16.00 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

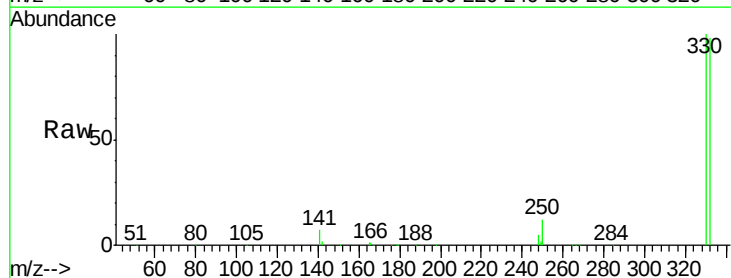
Tgt Ion:330 Resp: 595443

Ion Ratio Lower Upper

330 100

332 96.1 73.8 110.8

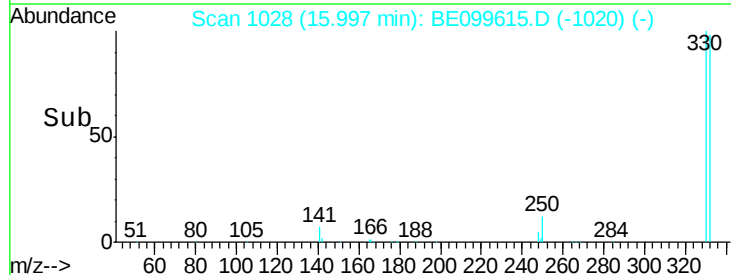
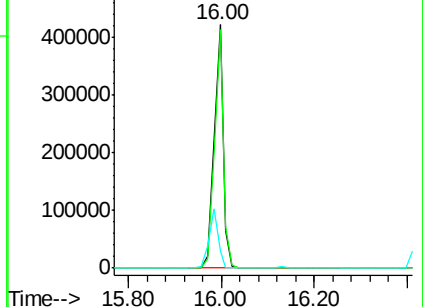
141 23.9 21.0 31.6

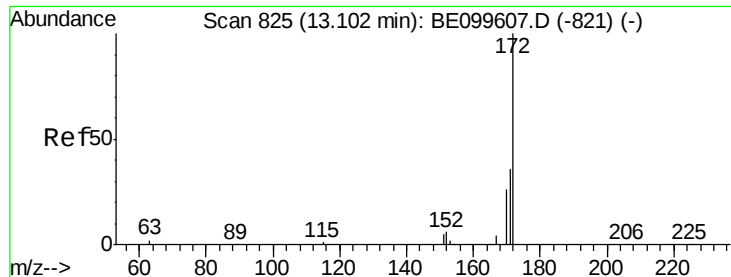


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

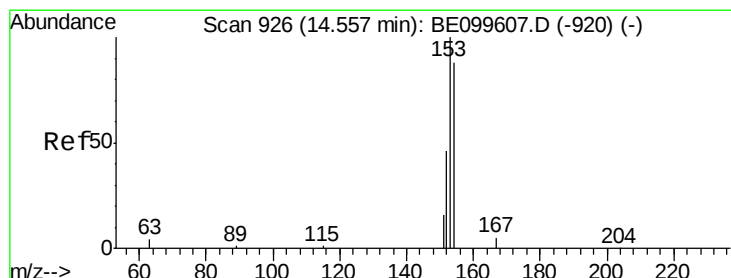
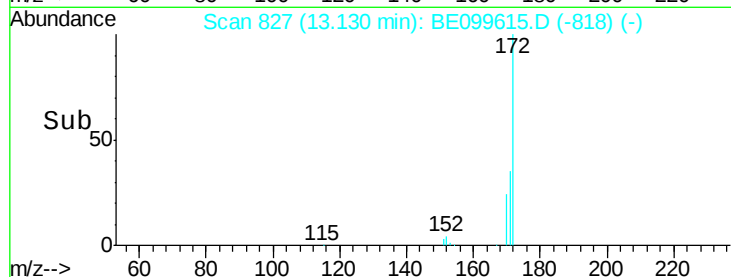
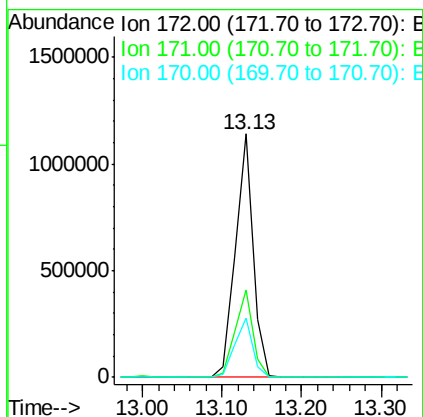
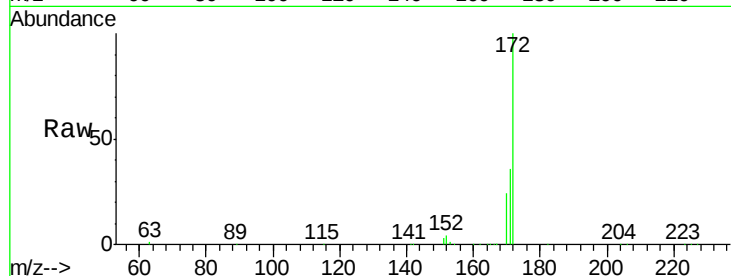




#15
2-Fluorobiphenyl
Concen: 90.764 ng
RT: 13.13 min Scan# 827
Delta R.T. 0.03 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

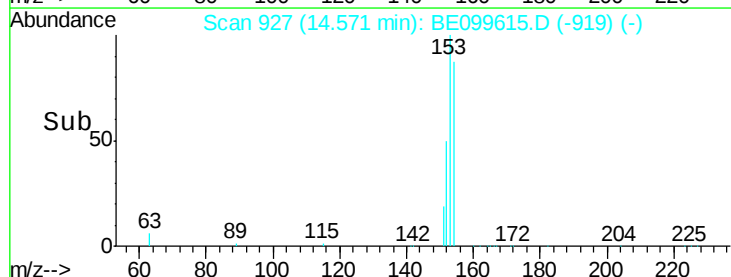
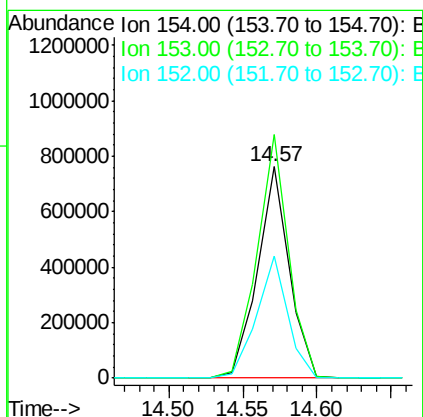
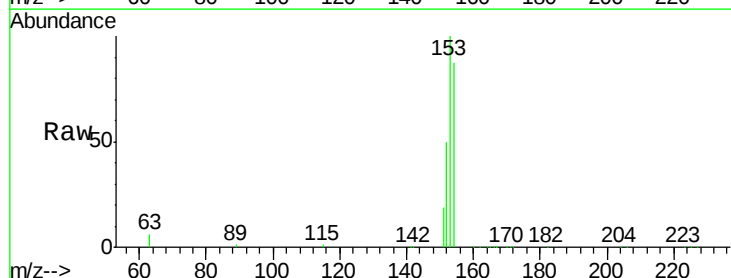
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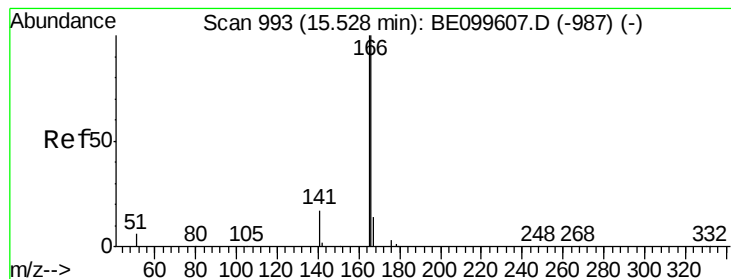
Tot Ion:172 Resp: 1755991
Ion Ratio Lower Upper
172 100
171 35.9 29.4 44.2
170 24.4 21.5 32.3



#17
Acenaphthene
Concen: 84.022 ng
RT: 14.57 min Scan# 927
Delta R.T. 0.01 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

Tgt Ion:154 Resp: 1125113
Ion Ratio Lower Upper
154 100
153 114.8 94.1 141.1
152 56.9 46.5 69.7





#18

Fluorene

Concen: 125.596 ng

RT: 15.55 min Scan# 995

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

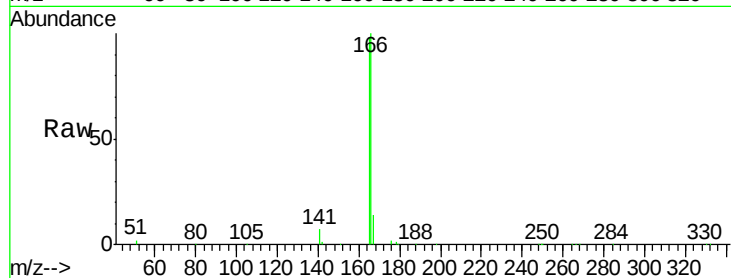
Tot Ion:166 Resp: 2412513

Ion Ratio Lower Upper

166 100

165 100.1 79.8 119.8

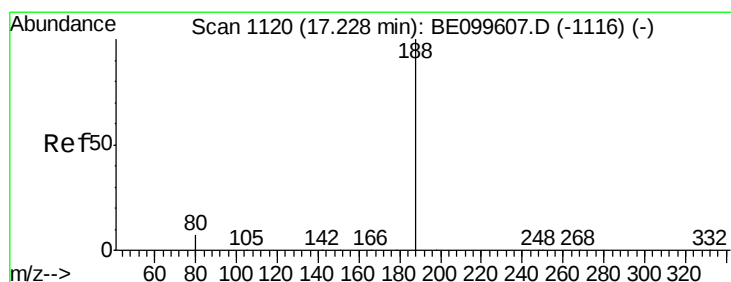
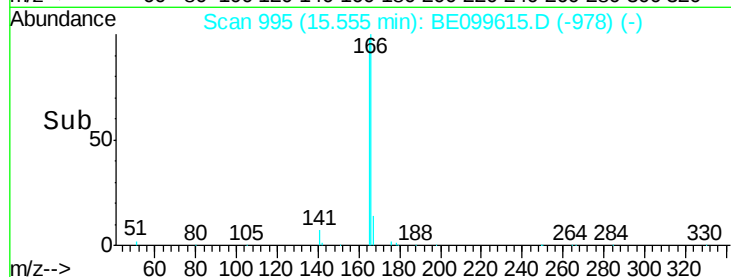
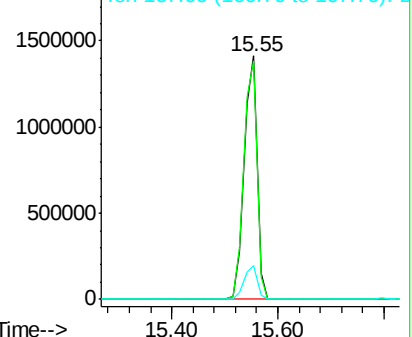
167 14.1 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

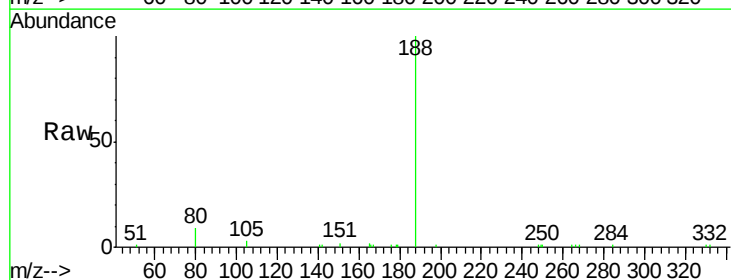
Tgt Ion:188 Resp: 14056

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

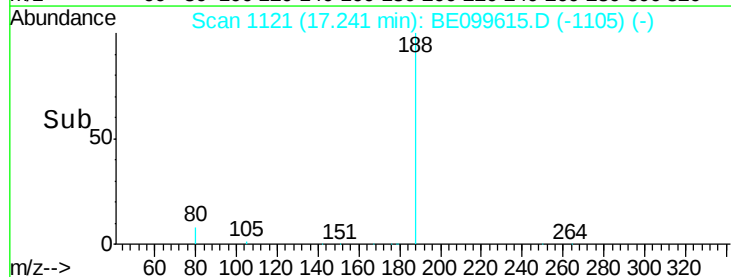
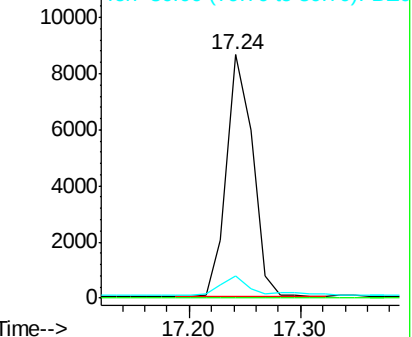
80 9.0 6.4 9.6

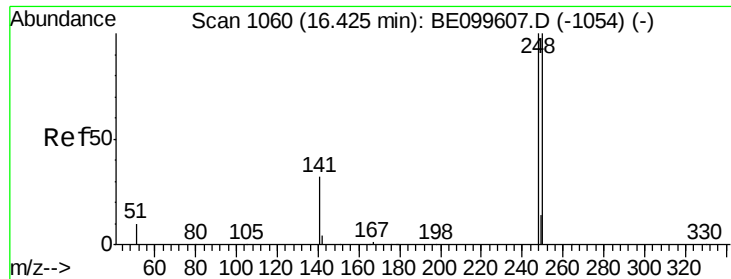


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

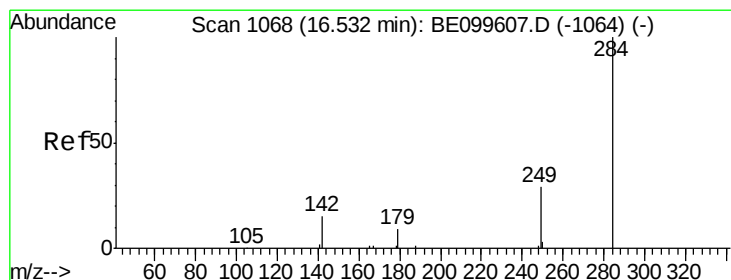
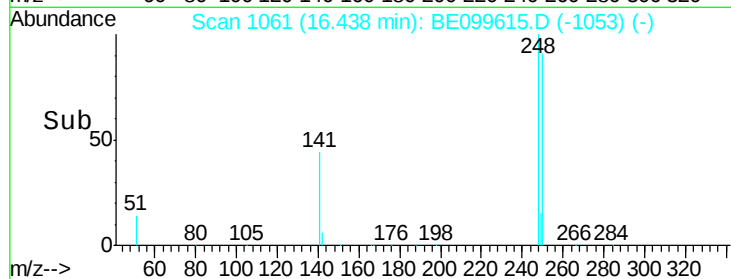
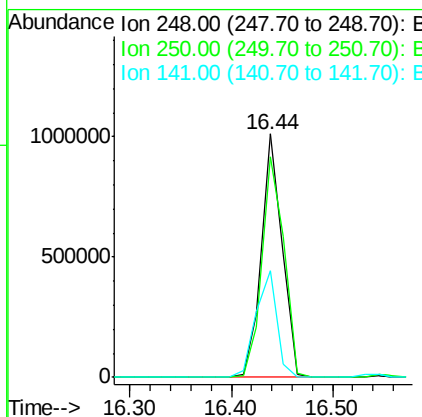
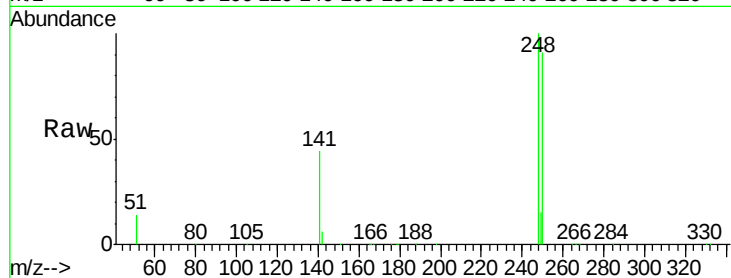




#20
4-Bromophenyl-phenylether
Concen: 179.612 ng
RT: 16.44 min Scan# 1061
Delta R.T. 0.01 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

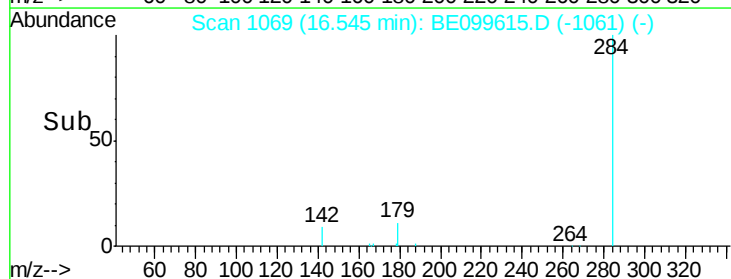
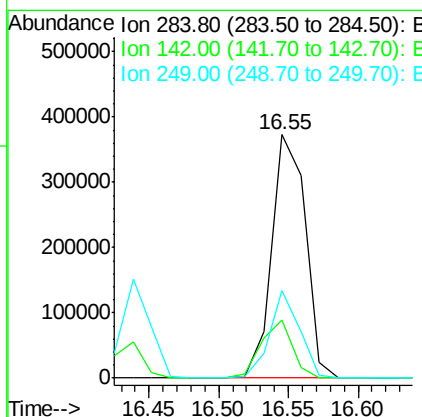
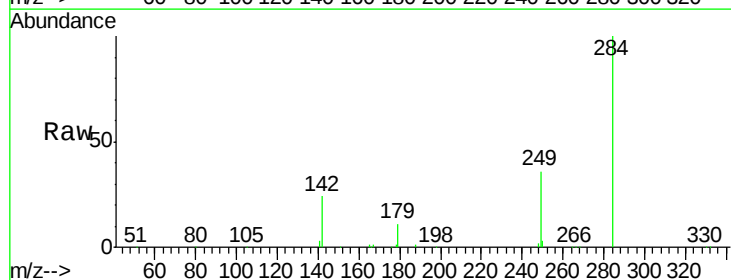
Instrument :
BNA_E
ClientSampled :
PT-BNA-SOIL

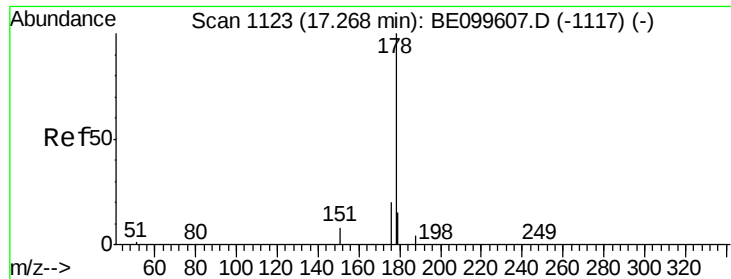
Tot Ion:248 Resp: 1455682
Ion Ratio Lower Upper
248 100
250 90.6 80.4 120.6
141 44.0 27.8 41.8#



#21
Hexachlorobenzene
Concen: 78.775 ng
RT: 16.55 min Scan# 1069
Delta R.T. 0.01 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

Tgt Ion:284 Resp: 627209
Ion Ratio Lower Upper
284 100
142 22.2 19.4 29.2
249 31.8 24.6 37.0





#23

Phenanthrene

Concen: 100.587 ng

RT: 17.30 min Scan# 1125

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

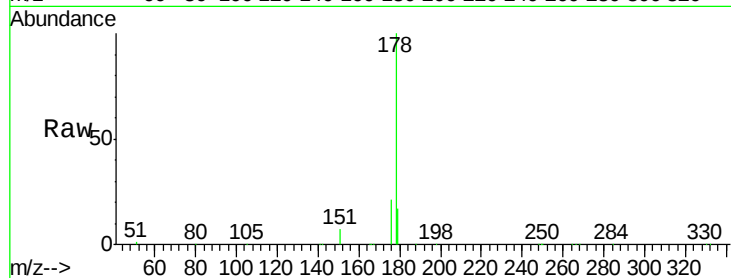
Tot Ion:178 Resp: 3509706

Ion Ratio Lower Upper

178 100

176 21.2 15.7 23.5

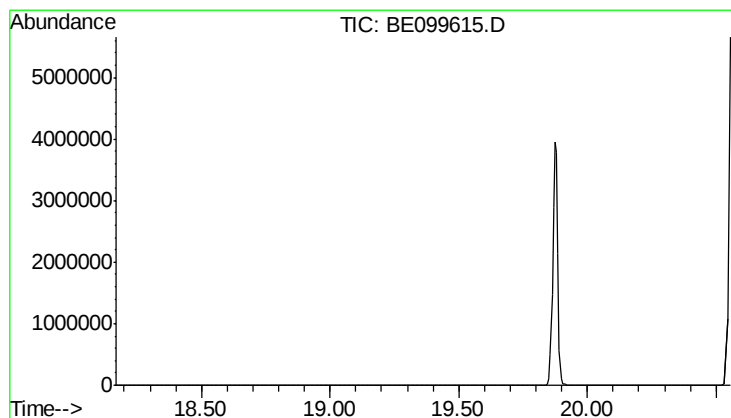
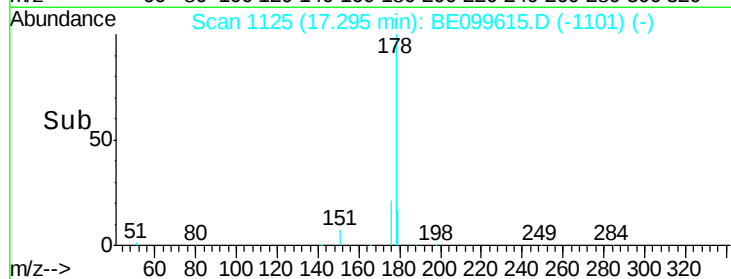
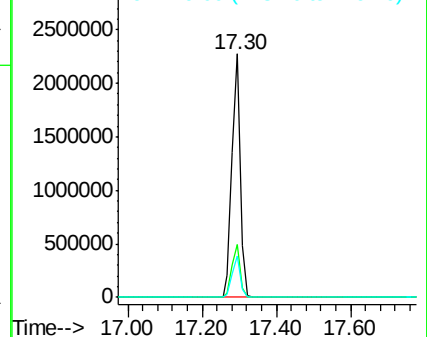
179 16.4 12.2 18.2



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



#25

Fluoranthene-d10

Concen: 0.000 ng

Expected RT: 19.27 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

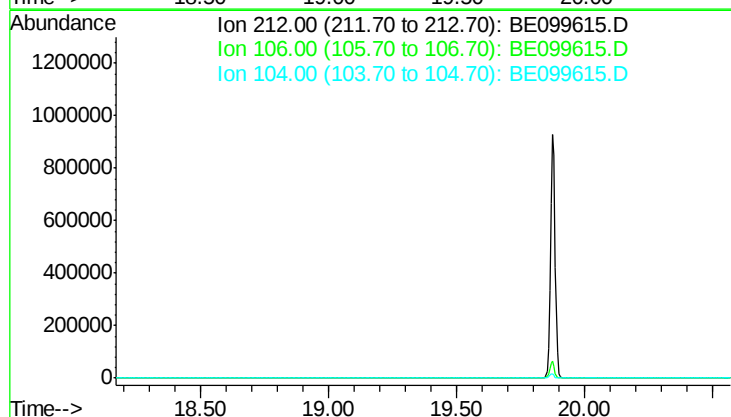
Tgt Ion: 212

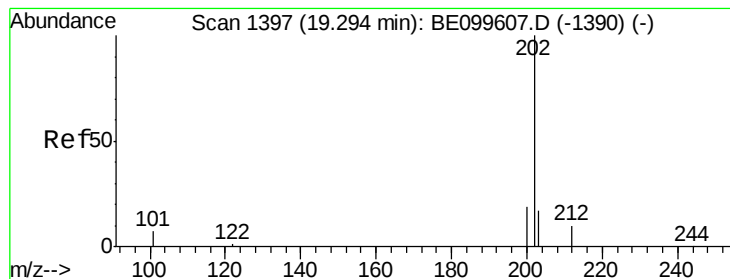
Sig Exp Ratio

212 100

106 1.8

104 1.1





#26

Fluoranthene

Concen: 0.038 ng

RT: 19.31 min Scan# 1399

Delta R.T. 0.01 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

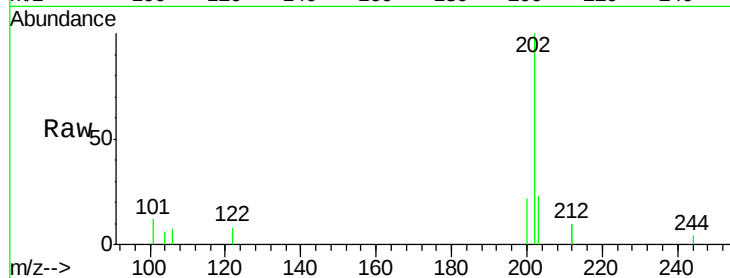
Tot Ion:202 Resp: 1990

Ion Ratio Lower Upper

202 100

101 8.1 5.0 7.6#

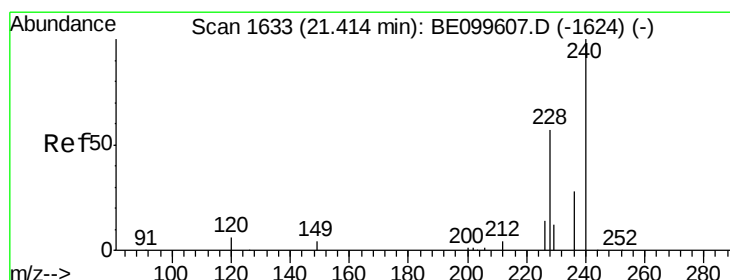
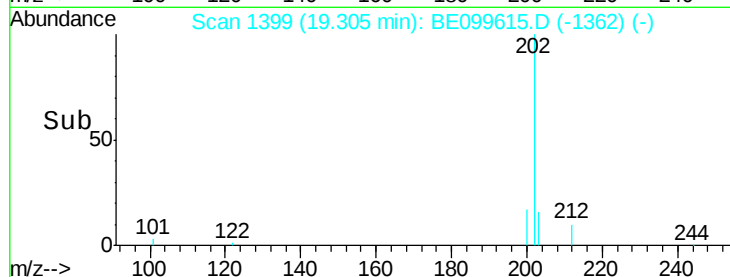
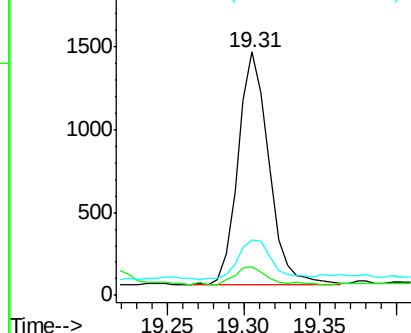
203 19.2 13.7 20.5



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.44 min Scan# 1636

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

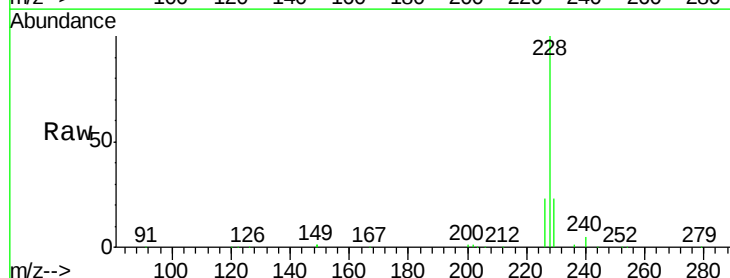
Tgt Ion:240 Resp: 18239

Ion Ratio Lower Upper

240 100

120 2.3 5.7 8.5#

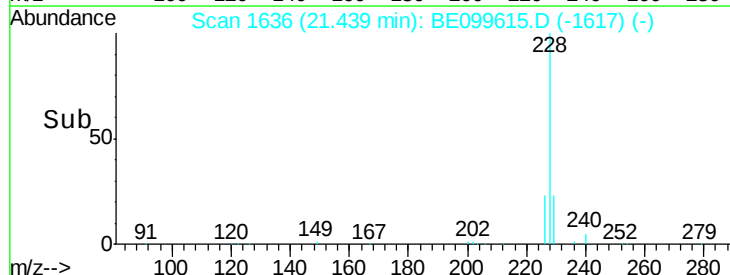
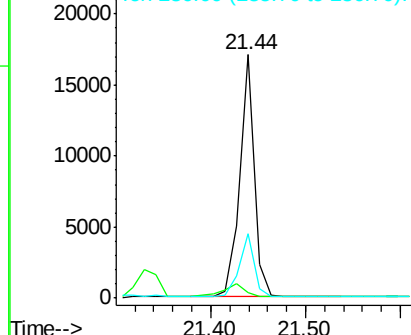
236 26.5 22.8 34.2

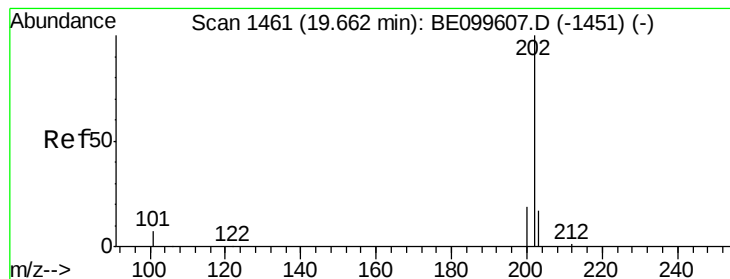


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.051 ng

RT: 19.67 min Scan# 1462

Delta R.T. 0.01 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

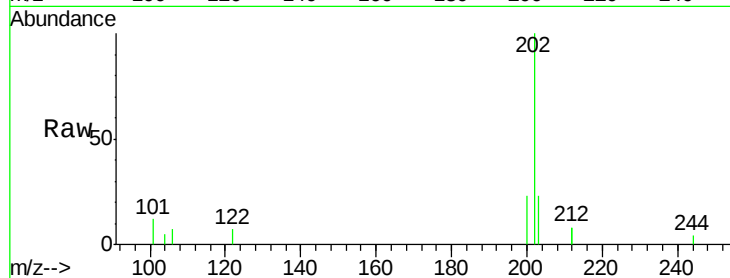
Tot Ion:202 Resp: 2365

Ion Ratio Lower Upper

202 100

200 24.2 15.8 23.6#

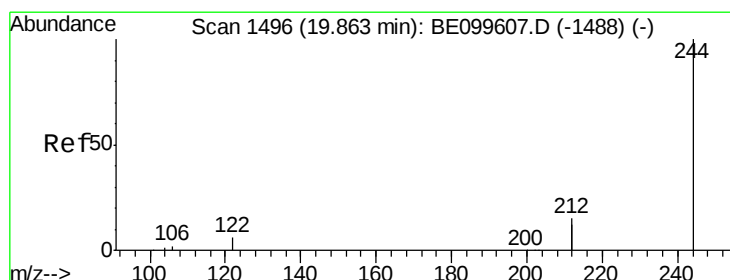
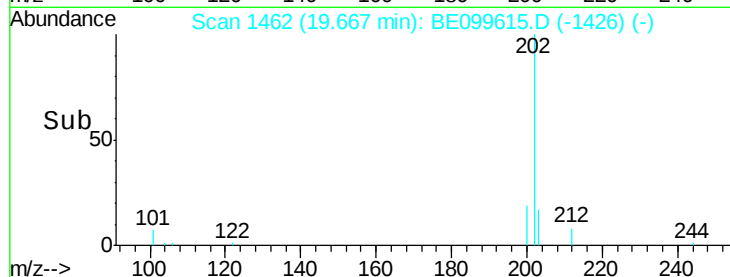
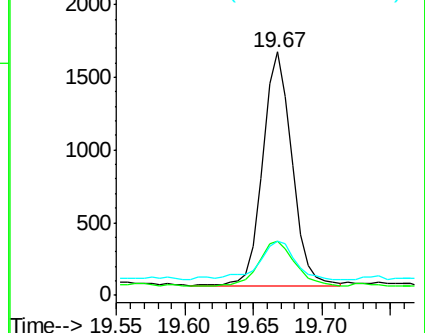
203 21.0 14.1 21.1



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



#29

Terphenyl-d14

Concen: 117.370 ng

RT: 19.87 min Scan# 1498

Delta R.T. 0.01 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

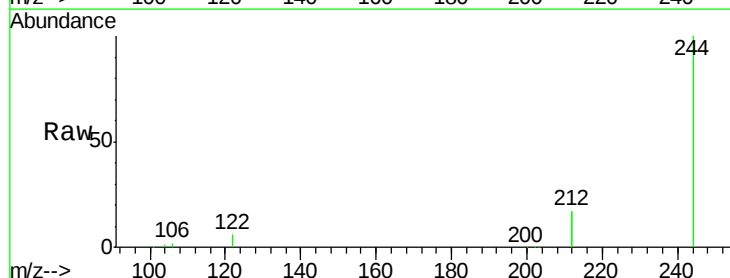
Tgt Ion:244 Resp: 3852917

Ion Ratio Lower Upper

244 100

212 33.7 23.8 35.6

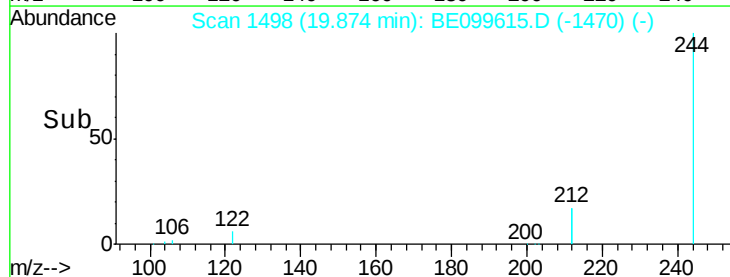
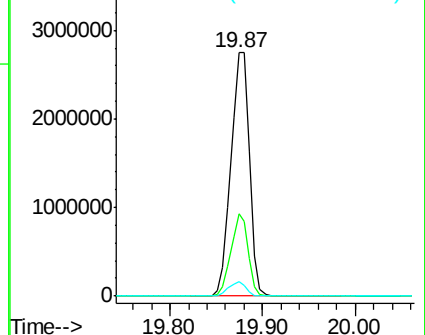
122 6.1 5.0 7.6

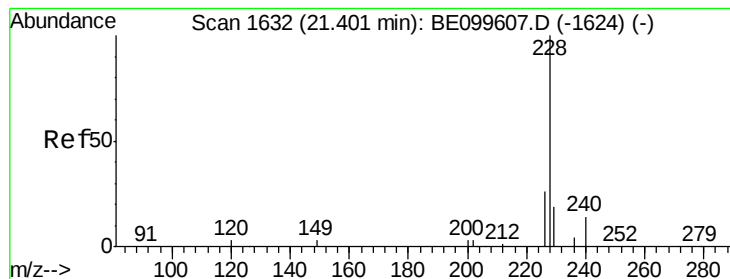


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 117.827 ng

RT: 21.43 min Scan# 1635

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

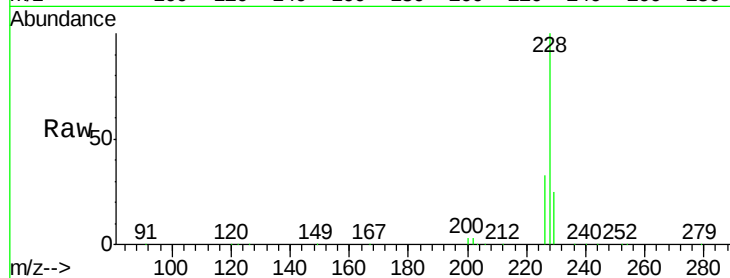
Tot Ion:228 Resp: 6494406

Ion Ratio Lower Upper

228 100

226 33.1 21.4 32.2#

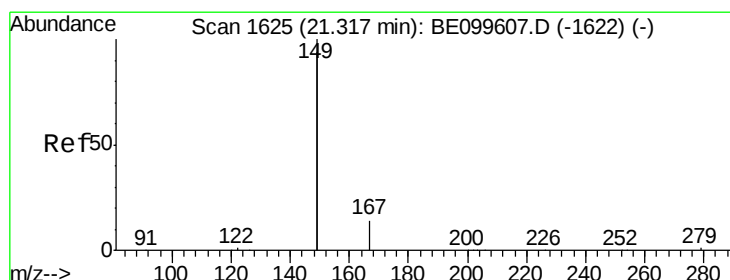
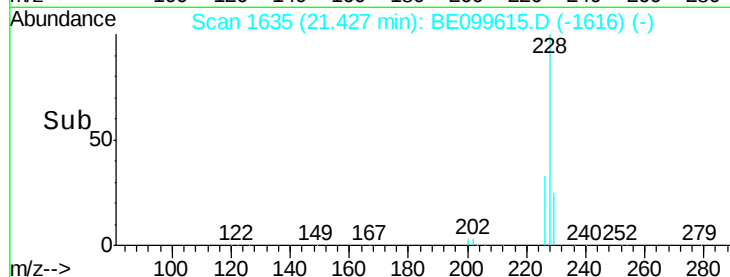
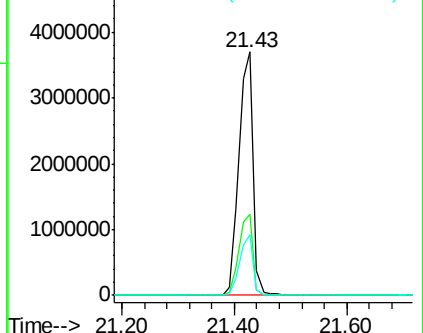
229 24.7 15.8 23.8#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 233.445 ng

RT: 21.34 min Scan# 1628

Delta R.T. 0.03 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

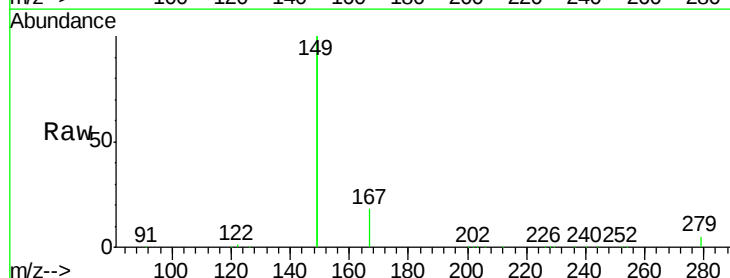
Tgt Ion:149 Resp:19842819

Ion Ratio Lower Upper

149 100

167 8.3 6.0 9.0

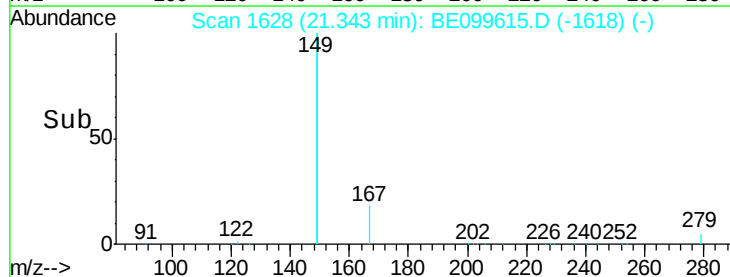
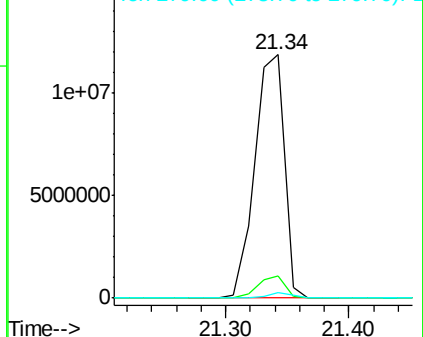
279 2.1 1.1 1.7#

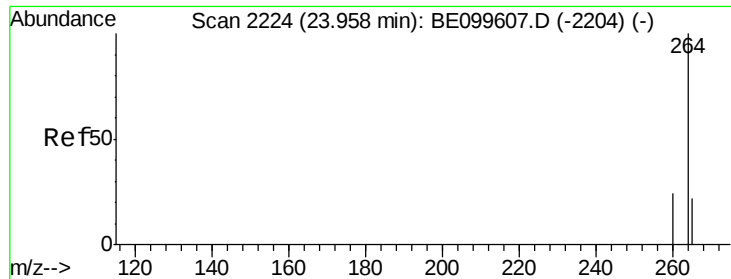


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

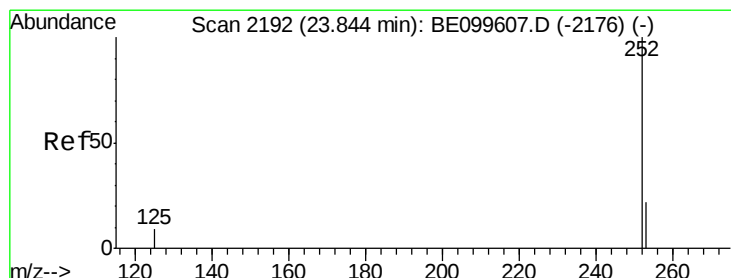
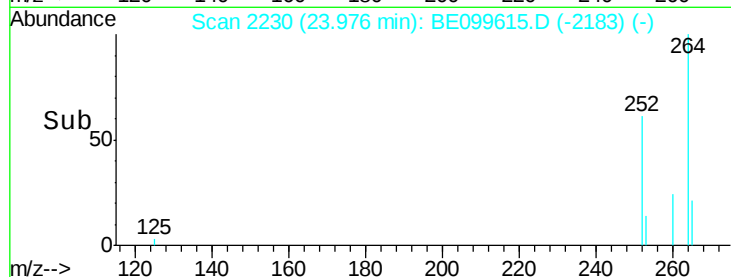
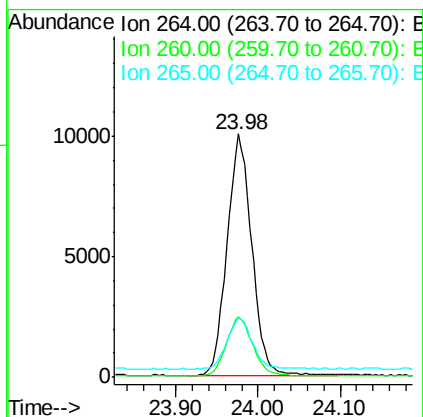
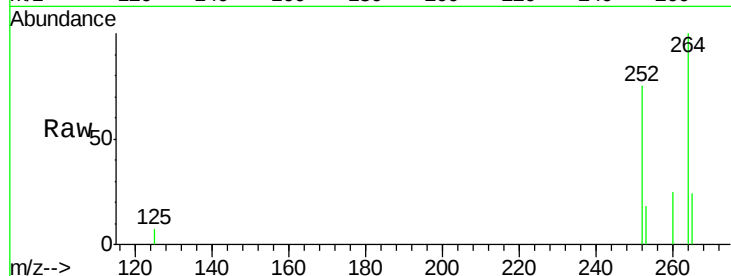




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.98 min Scan# 2230
Delta R.T. 0.02 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

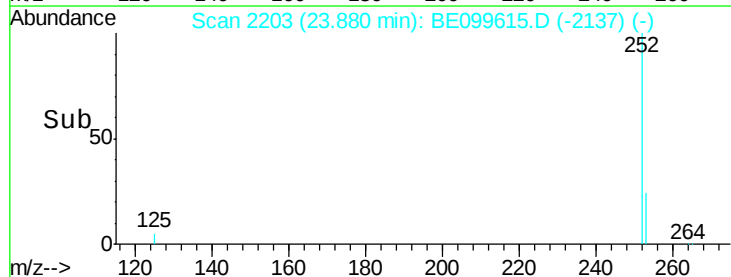
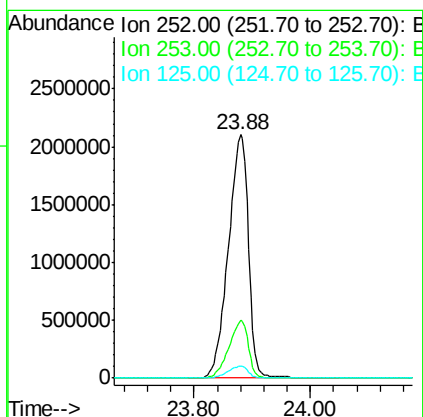
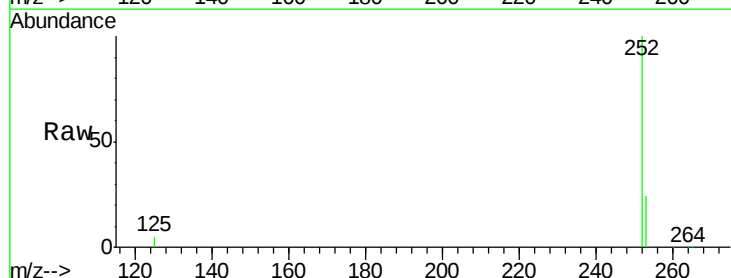
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOIL

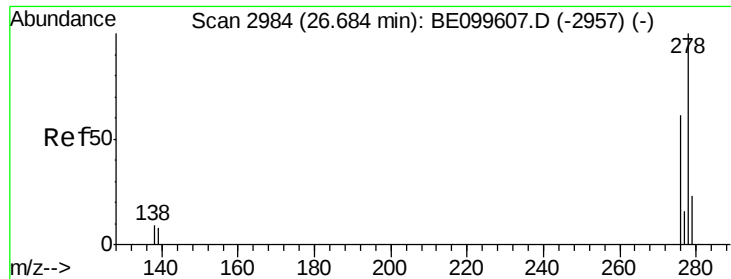
Tot Ion:264 Resp: 20973
Ion Ratio Lower Upper
264 100
260 24.9 19.7 29.5
265 24.2 21.2 31.8



#37
Benzo(a)pyrene
Concen: 89.067 ng
RT: 23.88 min Scan# 2203
Delta R.T. 0.04 min
Lab File: BE099615.D
Acq: 15 May 2019 13:10

Tgt Ion:252 Resp: 5059101
Ion Ratio Lower Upper
252 100
253 23.6 19.0 28.6
125 5.0 8.8 13.2#





#38

Dibenzo(a,h)anthracene

Concen: 97.242 ng

RT: 26.75 min Scan# 3003

Delta R.T. 0.06 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

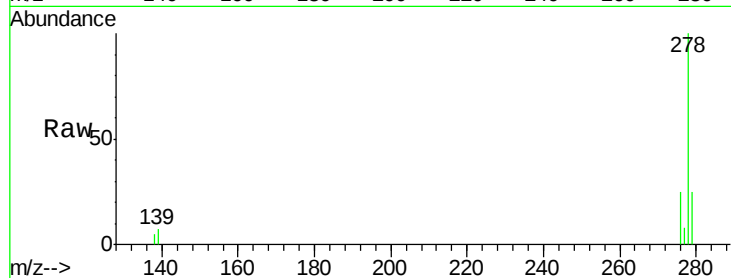
Tot Ion:278 Resp: 5728060

Ion Ratio Lower Upper

278 100

139 7.0 7.9 11.9#

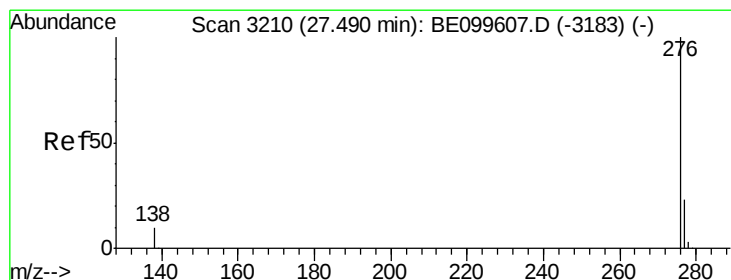
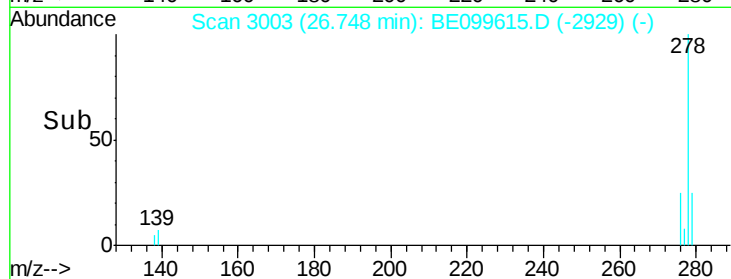
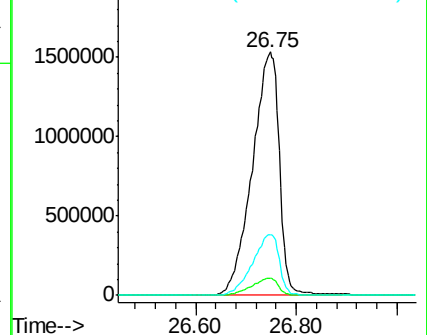
279 25.1 19.5 29.3



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 52.679 ng

RT: 27.55 min Scan# 3229

Delta R.T. 0.06 min

Lab File: BE099615.D

Acq: 15 May 2019 13:10

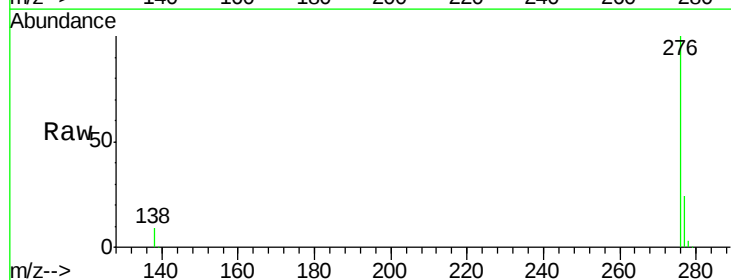
Tgt Ion:276 Resp: 3120550

Ion Ratio Lower Upper

276 100

277 24.1 19.3 28.9

138 9.4 9.1 13.7



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

