

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE120117\
 Data File : BE094900.D
 Acq On : 1 Dec 2017 11:57
 Operator : SJ/JU
 Sample : I6298-15
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-Soil

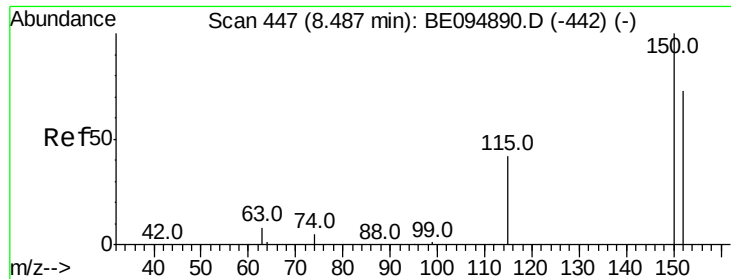
Manual Integrations
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 12/4/2017 11:58:27 AM

Quant Time: Dec 01 18:21:43 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.49	152	9132	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	19860	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	10384	0.40	ng	0.00
19) Phenanthrene-d10	17.79	188	23185	0.40	ng	0.01
27) Chrysene-d12	21.90	240	23436	0.40	ng	0.02
34) Perylene-d12	24.57	264	19634	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.96	112	1393285	96.40	ng	0.00
5) Phenol-d6	7.61	99	2142738	100.06	ng	0.01
8) Nitrobenzene-d5	9.67	82	1330159	113.13	ng	0.00
11) 2-Methylnaphthalene-d10	0.00	152	0d	0.00	ng	
14) 2,4,6-Tribromophenol	16.55	330	372221	129.56	ng	0.02
15) 2-Fluorobiphenyl	13.71	172	2428075	54.60	ng	0.00
25) Fluoranthene-d10	0.00	212	0d	0.00	ng	
29) Terphenyl-d14	20.33	244	2625001	60.65	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.88	93	1501887	70.751	ng	Qvalue 92
9) Naphthalene	11.38	128	31571	0.136	ng	99
10) Hexachlorobutadiene	11.65	225	891985	90.779	ng	98
12) 2-Methylnaphthalene	12.94	142	3540447	61.198	ng	93
16) Acenaphthylene	14.81	152	5971091	101.767	ng	95
17) Acenaphthene	15.14	154	172151	4.540	ng	95
18) Fluorene	16.11	166	3890960	80.635	ng	# 78
20) 4-Bromophenyl-phenylether	16.98	248	861800	66.627	ng	# 86
21) Hexachlorobenzene	17.10	284	1168445	92.608	ng	# 79
22) Pentachlorophenol	17.43	266	749774	179.584	ng	# 71
23) Phenanthrene	17.83	178	2685662	36.354	ng	97
30) Benzo(a)anthracene	21.88	228	5754186m	80.069	ng	
31) Chrysene	21.93	228	3860323m	48.615	ng	
32) Bis(2-ethylhexyl)phthalate	21.76	149	8251887	69.289	ng	100
35) Benzo(b)fluoranthene	23.75	252	3029845	42.268	ng	# 38
36) Benzo(k)fluoranthene	23.81	252	2848780	38.988	ng	# 38

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



#1

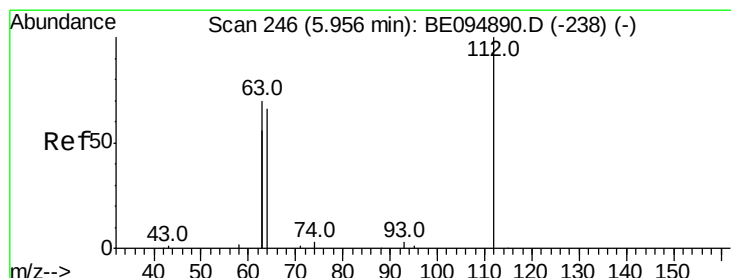
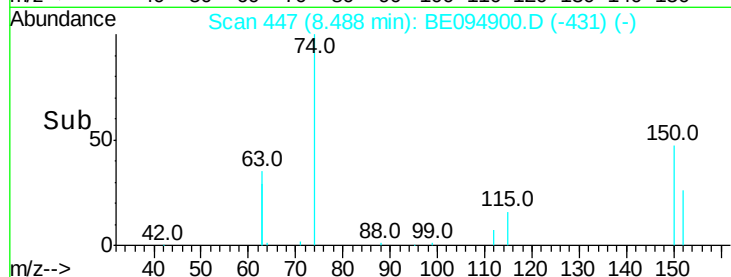
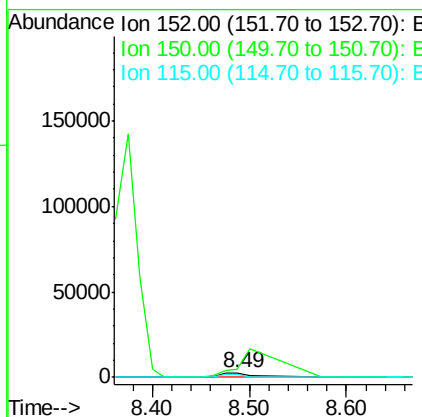
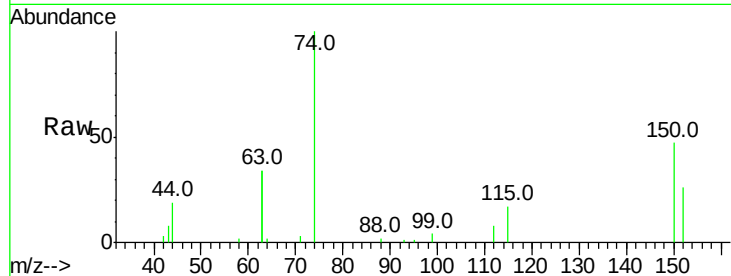
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.49 min Scan# 447
Delta R.T. 0.00 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Instrument :
BNA_E
ClientSampleId :
PT-BNA-Soil

Tot Ion	Ratio	Lower	Upper
152	100		
150	178.6	117.2	175.8#
115	64.1	57.0	85.6

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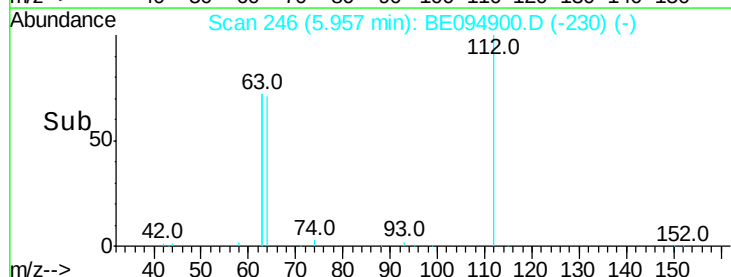
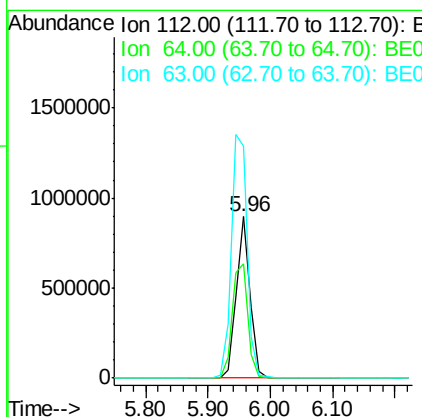
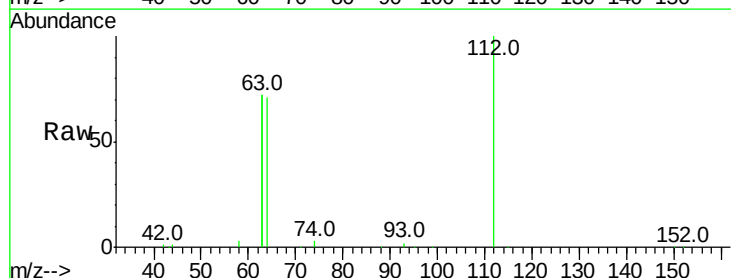
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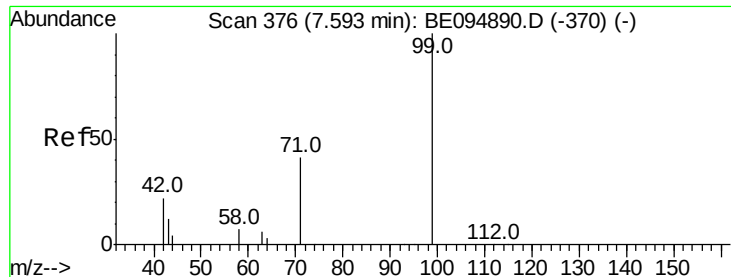


#4

2-Fluorophenol
Concen: 96.397 ng
RT: 5.96 min Scan# 246
Delta R.T. 0.00 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	80.8	60.1	90.1
63	175.3	116.8	175.2#





#5

Phenol-d6

Concen: 100.060 ng

RT: 7.61 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

ClientSampleId :

PT-BNA-Soil

Tot Ion: 99 Resp: 2142738

Ion Ratio Lower Upper

99 100

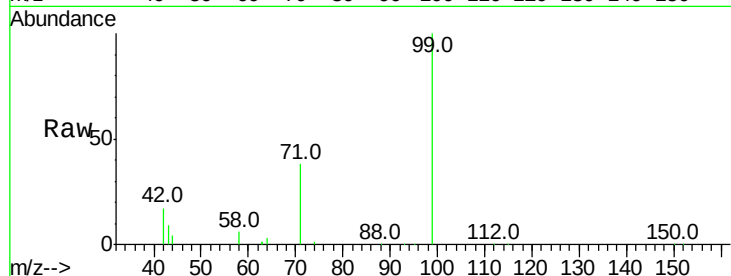
42 27.3 20.2 30.2

71 42.3 28.4 42.6

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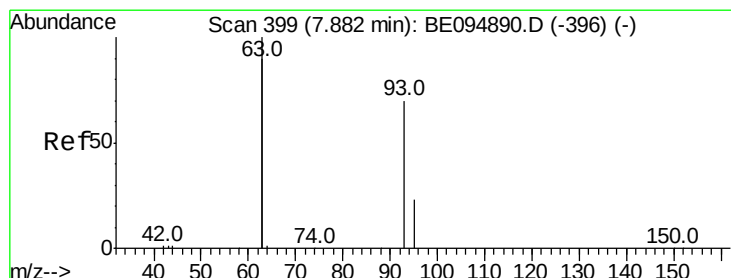
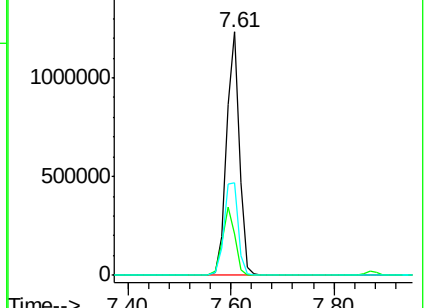
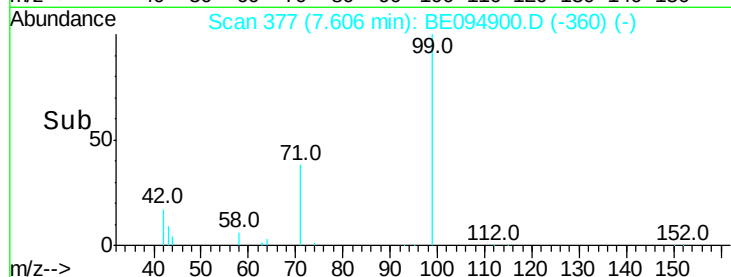
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Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 70.751 ng

RT: 7.88 min Scan# 399

Delta R.T. 0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

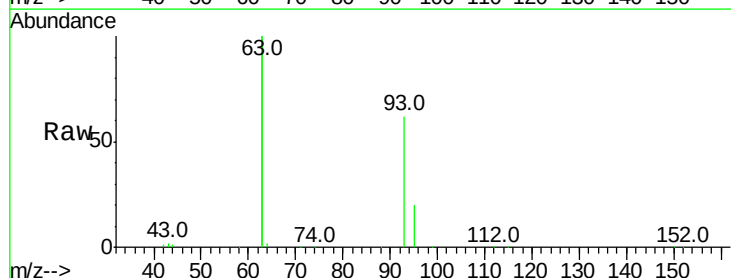
Tgt Ion: 93 Resp: 1501887

Ion Ratio Lower Upper

93 100

63 363.6 275.3 412.9

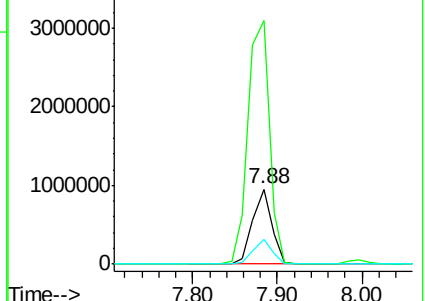
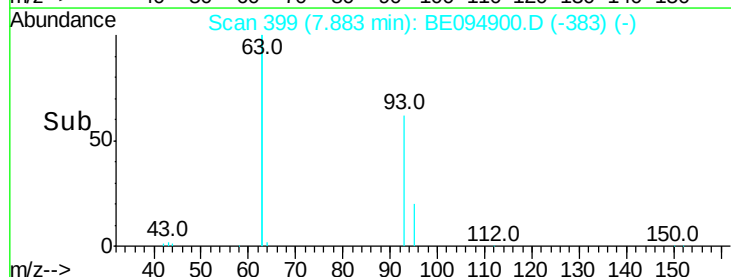
95 32.5 25.2 37.8

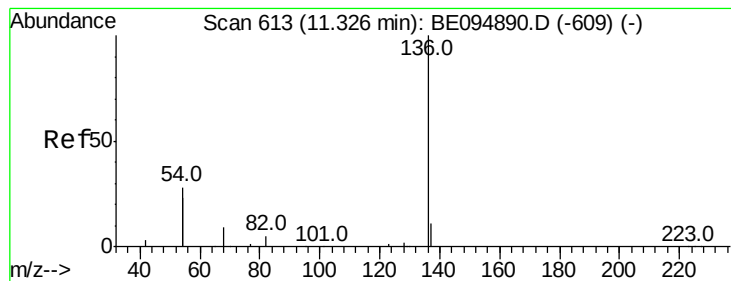


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

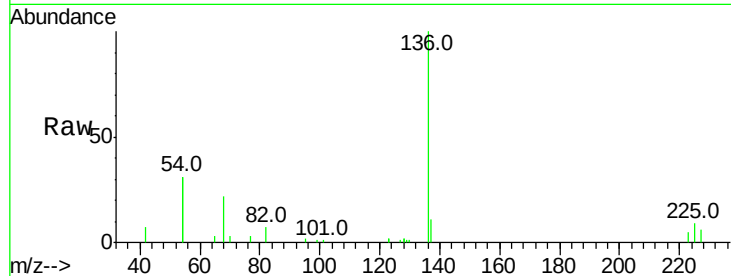
ClientSampled :

PT-BNA-Soil

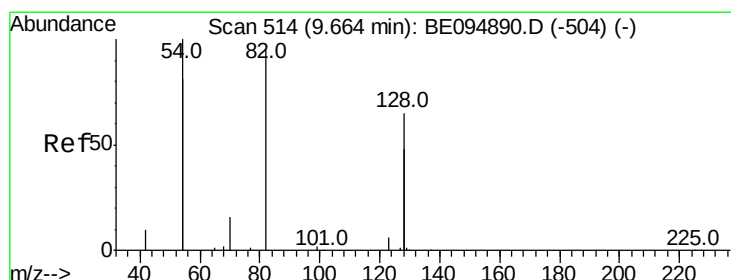
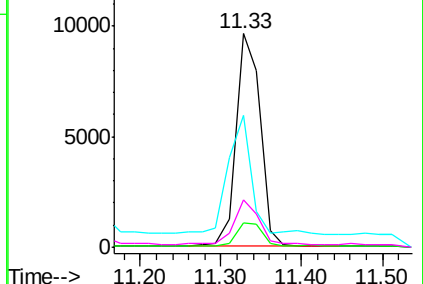
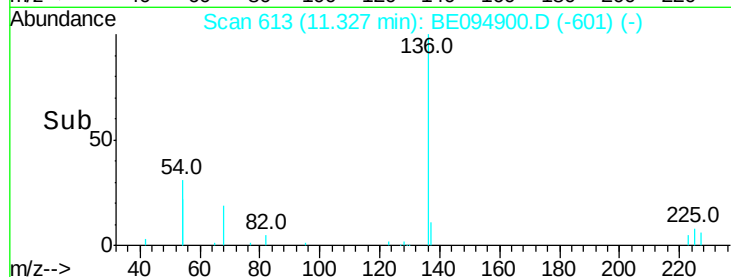
Tot Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.5	14.3
54	61.5	29.1	43.7#
68	22.0	6.2	9.2#

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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: 113.133 ng

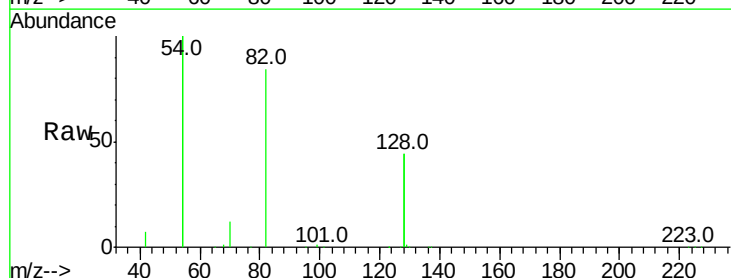
RT: 9.67 min Scan# 514

Delta R.T. 0.00 min

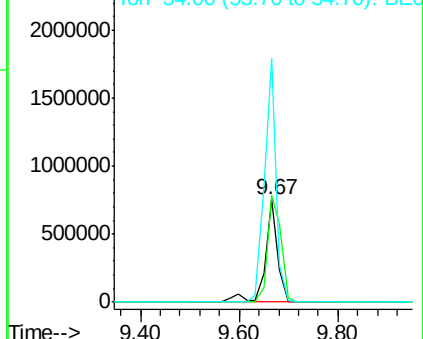
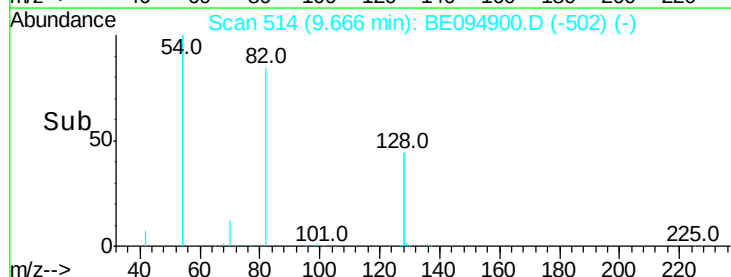
Lab File: BE094900.D

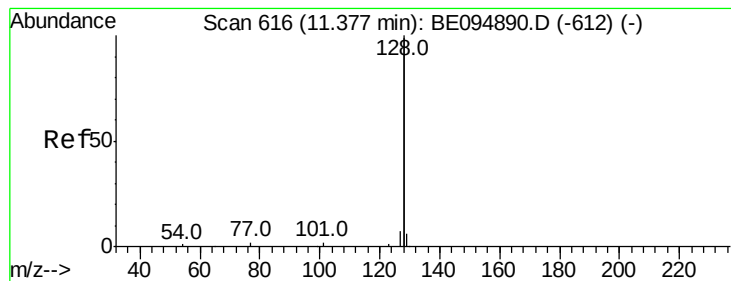
Acq: 1 Dec 2017 11:57

Tgt Ion	Ratio	Lower	Upper
82	100		
128	104.8	150.0	225.0#
54	237.9	154.2	231.4#



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: 0.136 ng

RT: 11.38 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

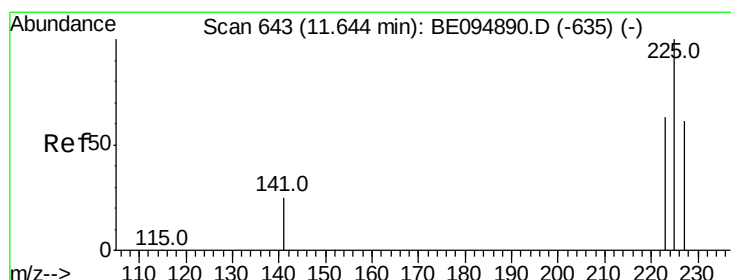
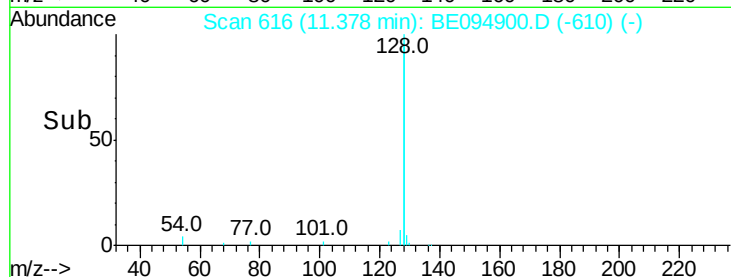
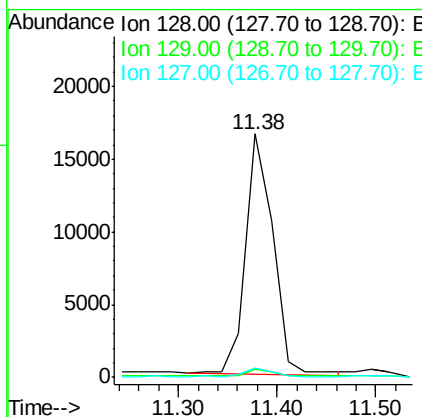
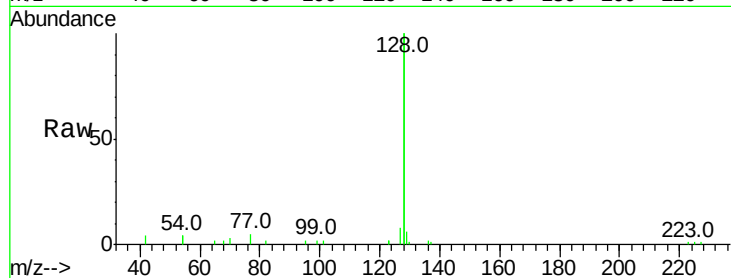
ClientSampled :

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Tot Ion:	128	Resp:	31571
Ion Ratio	Lower	Upper	
128	100		
129	3.1	2.6	3.8
127	3.8	2.8	4.2

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#10

Hexachlorobutadiene

Concen: 90.779 ng

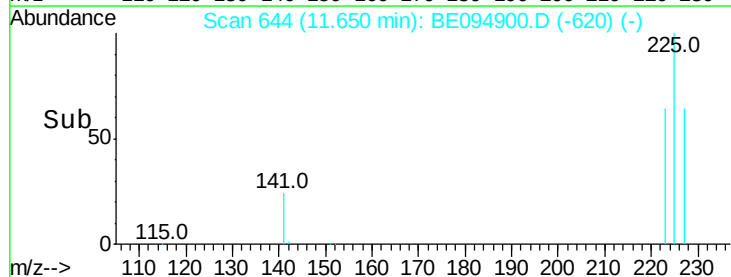
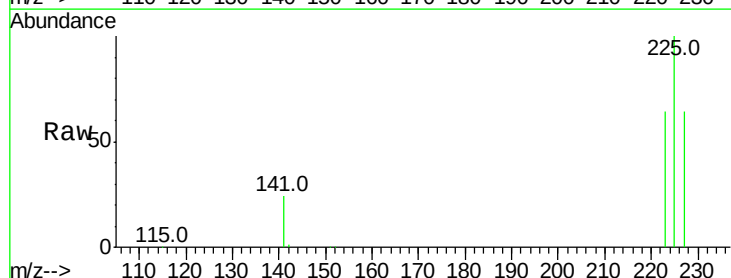
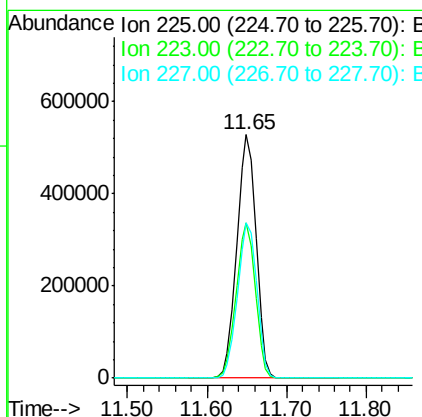
RT: 11.65 min Scan# 644

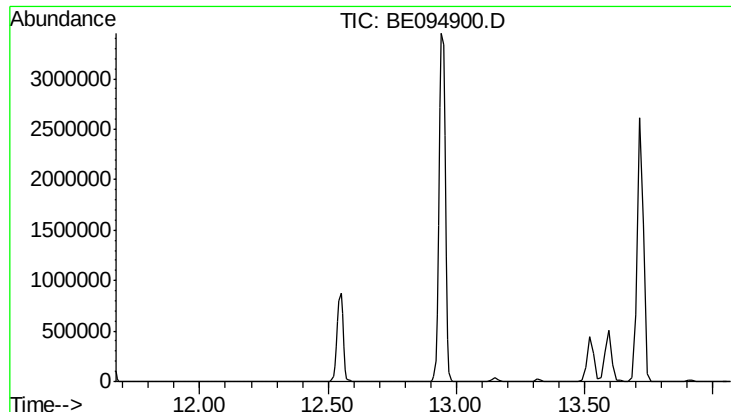
Delta R.T. 0.01 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Tgt Ion:	225	Resp:	891985
Ion Ratio	Lower	Upper	
225	100		
223	63.4	53.0	79.6
227	64.1	51.4	77.2





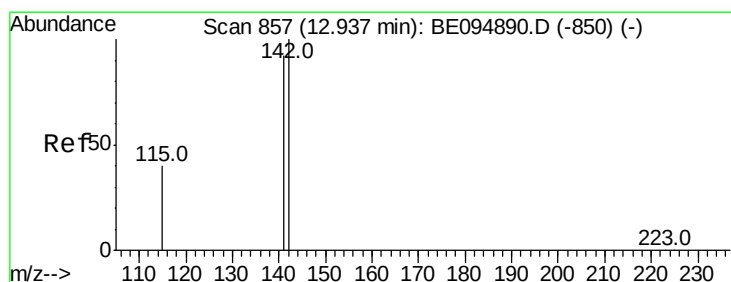
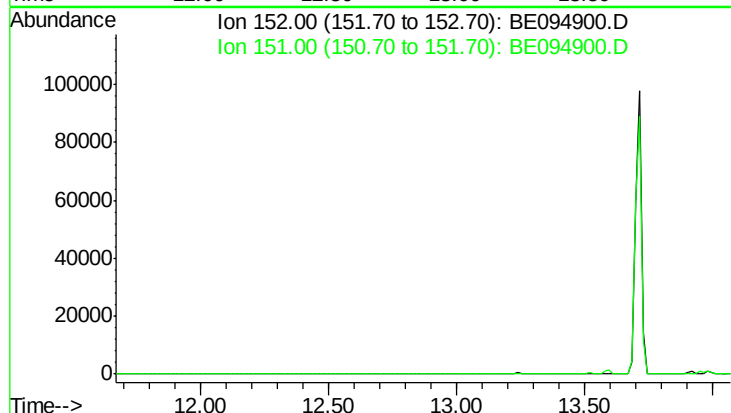
#11
 2-Methylnaphthalene-d10
 Concen: 0.000 ng
 Expected RT: 12.87 min
 Lab File: BE094900.D
 Acq: 1 Dec 2017 11:57

Tot Ion: 152
 Sig Exp Ratio
 152 100
 151 19.2

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-Soil

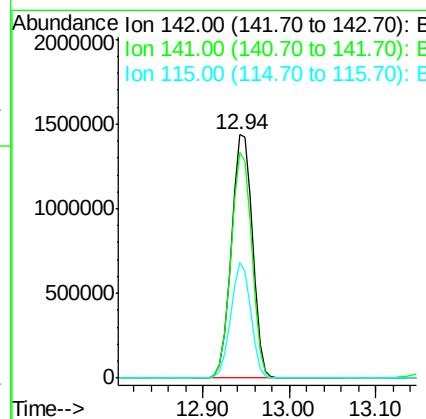
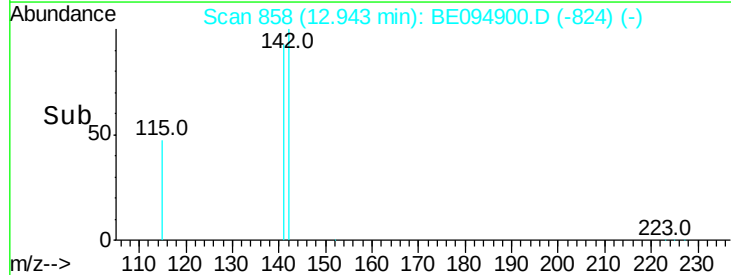
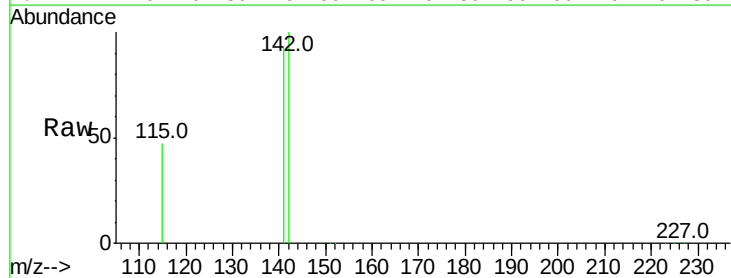
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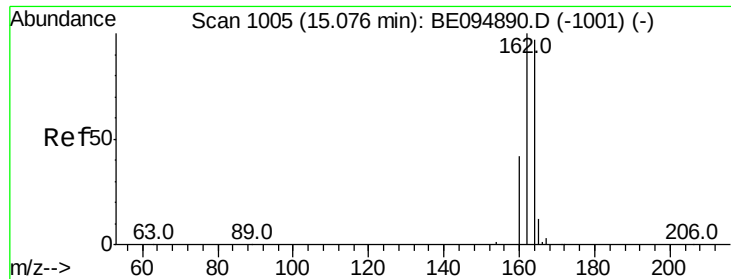
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#12
 2-Methylnaphthalene
 Concen: 61.198 ng
 RT: 12.94 min Scan# 858
 Delta R.T. 0.01 min
 Lab File: BE094900.D
 Acq: 1 Dec 2017 11:57

Tgt Ion: 142 Resp: 3540447
 Ion Ratio Lower Upper
 142 100
 141 92.8 70.4 105.6
 115 47.3 31.7 47.5





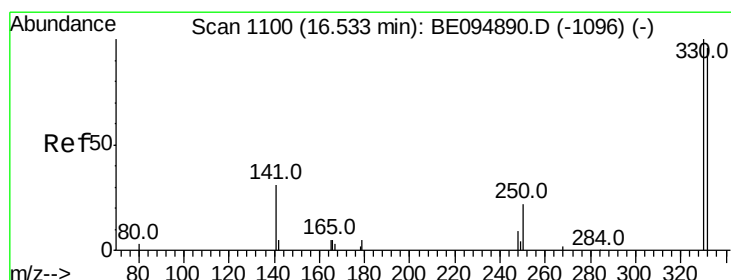
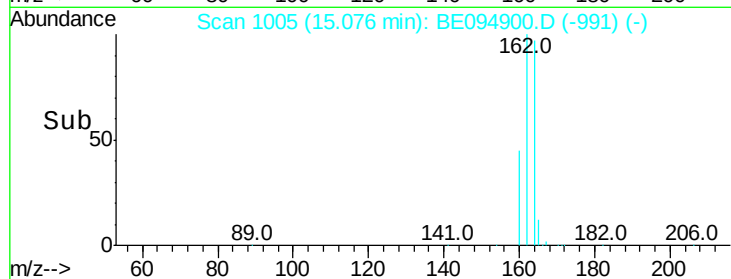
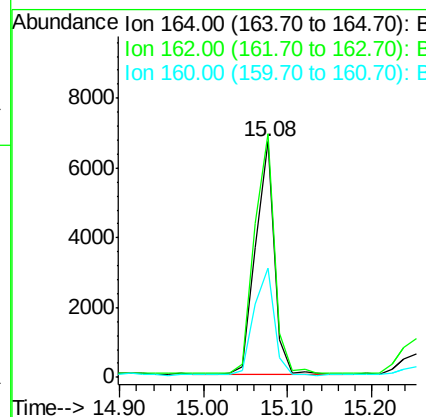
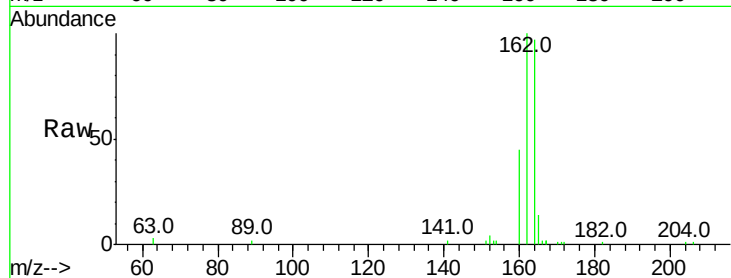
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.08 min Scan# 1005
 Delta R.T. 0.00 min
 Lab File: BE094900.D
 Acq: 1 Dec 2017 11:57

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-Soil

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.2	83.1	124.7
160	46.2	37.1	55.7

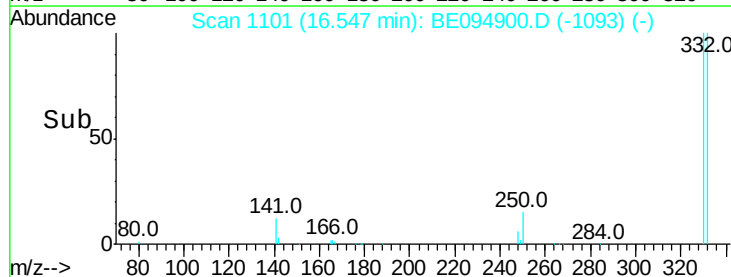
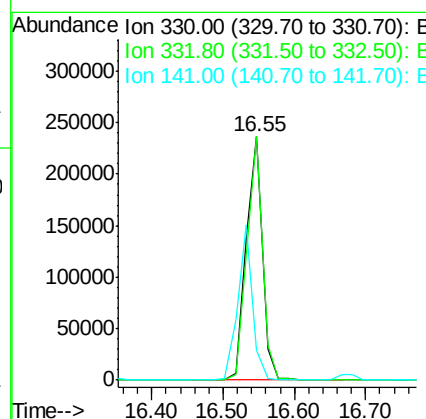
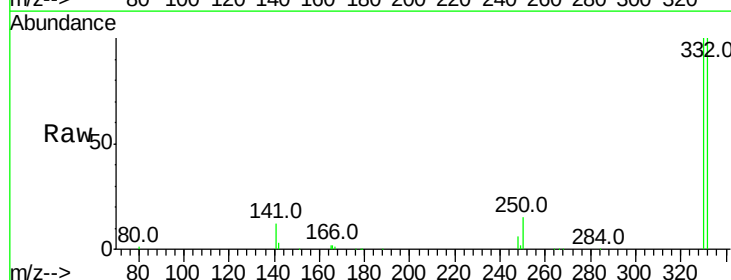
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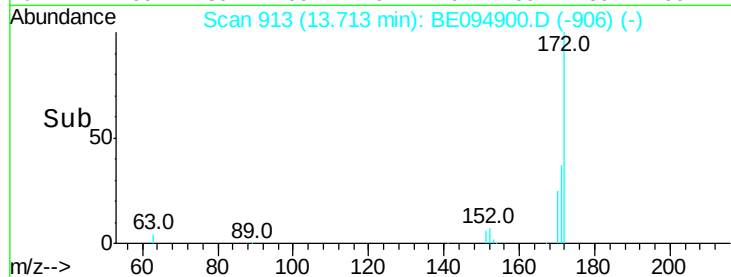
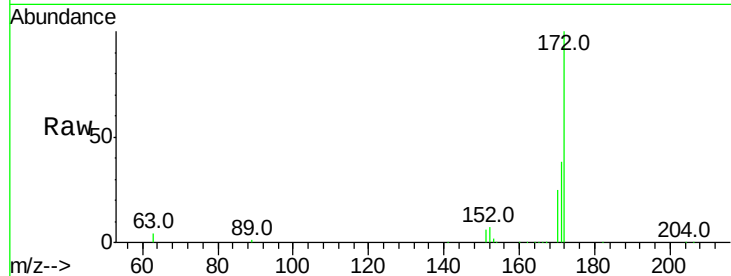
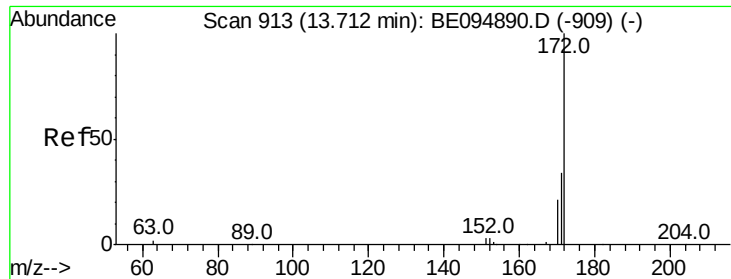
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#14
 2,4,6-Tribromophenol
 Concen: 129.558 ng
 RT: 16.55 min Scan# 1101
 Delta R.T. 0.02 min
 Lab File: BE094900.D
 Acq: 1 Dec 2017 11:57

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.0	152.7	229.1#
141	58.6	33.7	50.5#





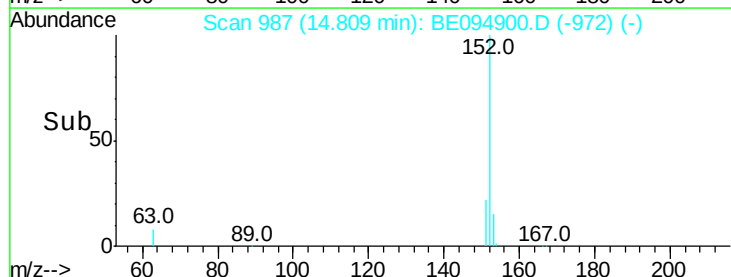
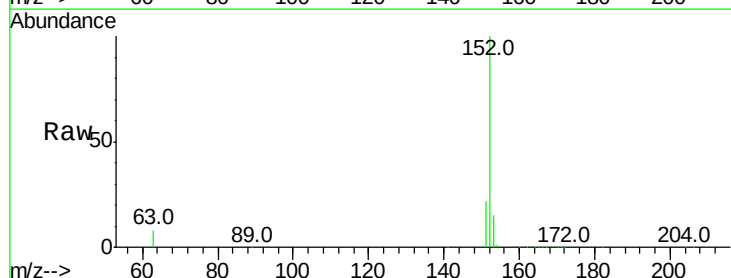
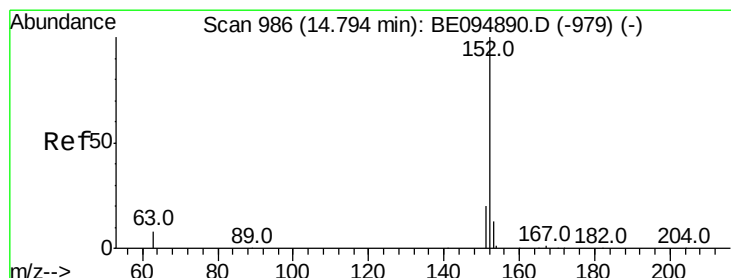
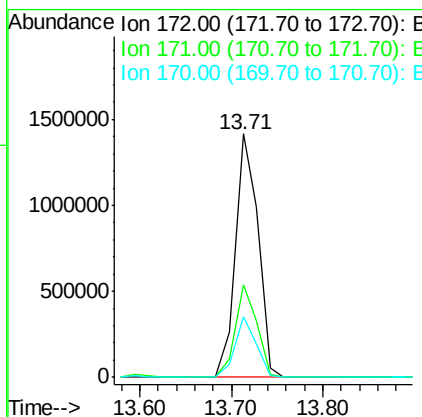
#15
2-Fluorobiphenyl
Concen: 54.601 ng
RT: 13.71 min Scan# 913
Delta R.T. 0.00 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Tot Ion:172 Resp: 2428075
Ion Ratio Lower Upper
172 100
171 37.9 29.9 44.9
170 25.0 21.8 32.8

Instrument :
BNA_E
ClientSampleId :
PT-BNA-Soil

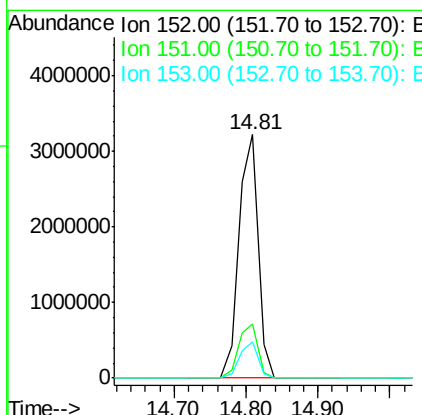
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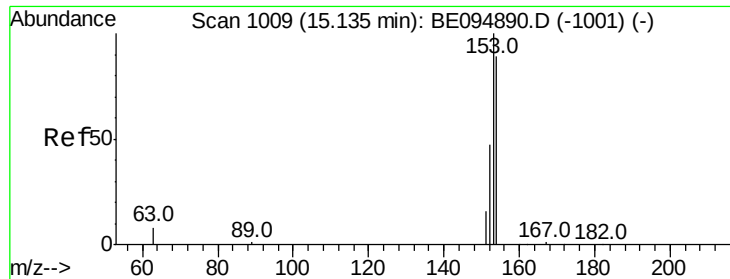
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12/4/2017 11:58:27 AM



#16
Acenaphthylene
Concen: 101.767 ng
RT: 14.81 min Scan# 987
Delta R.T. 0.02 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Tgt Ion:152 Resp: 5971091
Ion Ratio Lower Upper
152 100
151 22.3 15.7 23.5
153 14.3 10.5 15.7





#17

Acenaphthene

Concen: 4.540 ng

RT: 15.14 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

ClientSampleId :

PT-BNA-Soil

Tot Ion:154 Resp: 172151
Ion Ratio Lower Upper

154 100

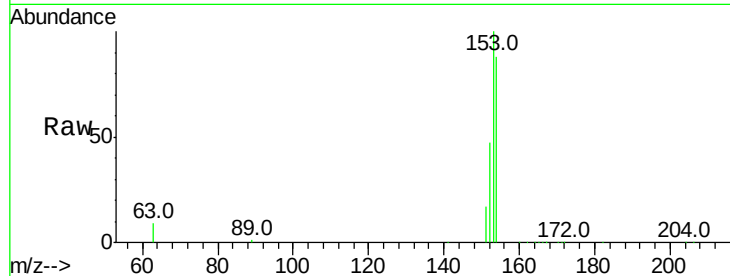
153 116.0 89.2 133.8

152 56.0 42.0 63.0

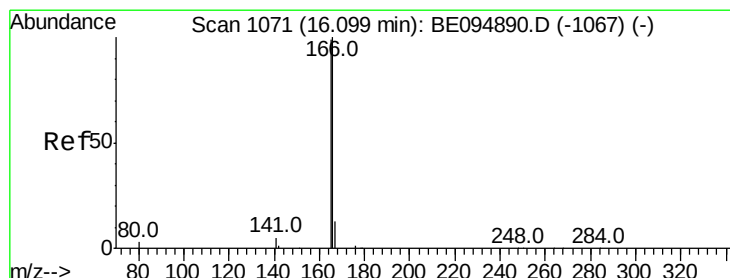
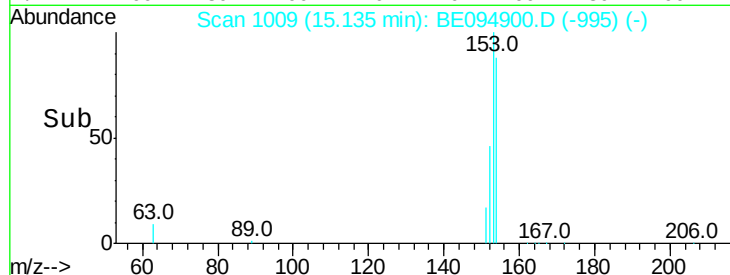
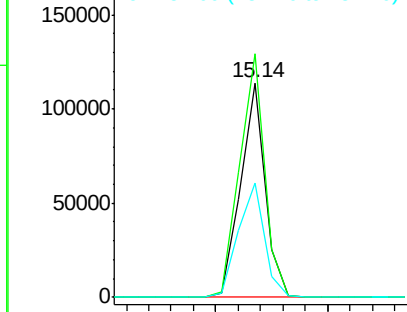
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 80.635 ng

RT: 16.11 min Scan# 1072

Delta R.T. 0.01 min

Lab File: BE094900.D

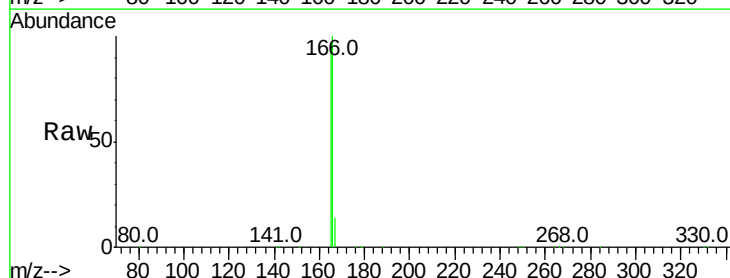
Acq: 1 Dec 2017 11:57

Tgt Ion:166 Resp: 3890960
Ion Ratio Lower Upper

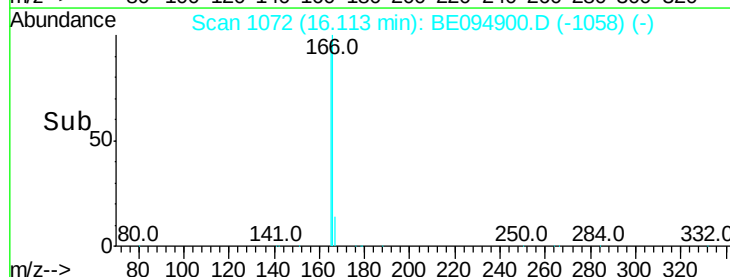
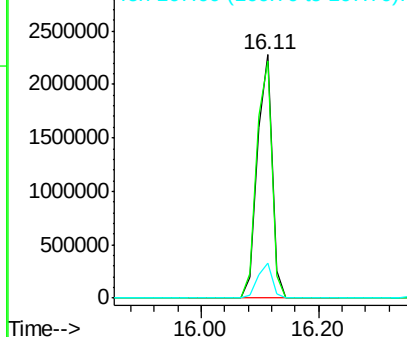
166 100

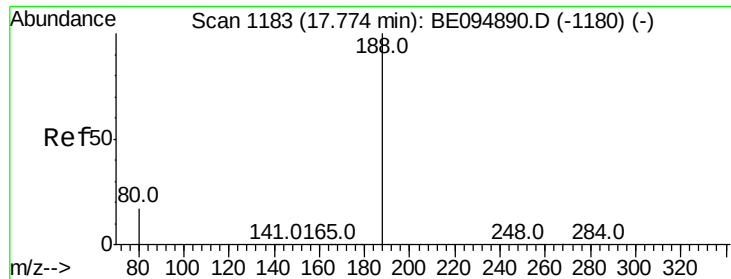
165 100.8 77.8 116.6

167 14.0 42.4 63.6#



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: 17.79 min Scan# 1184

Delta R.T. 0.01 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

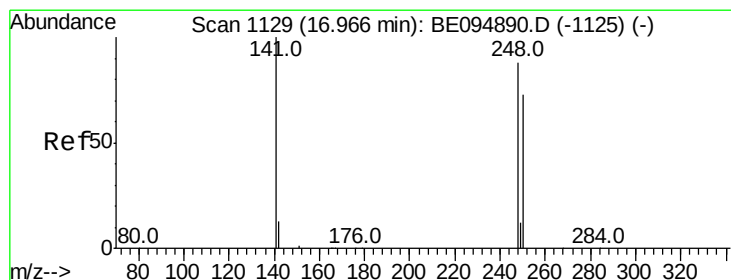
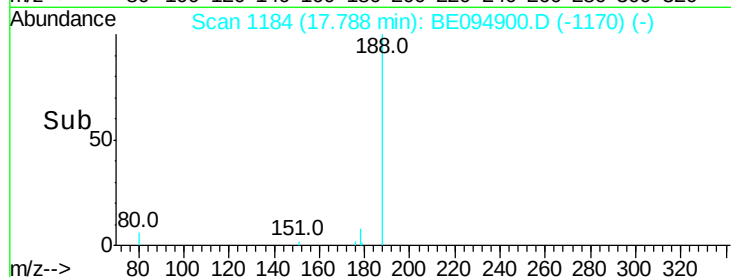
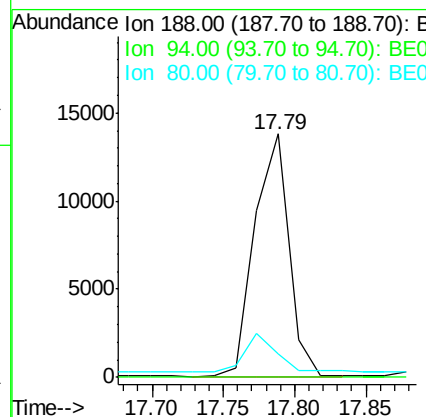
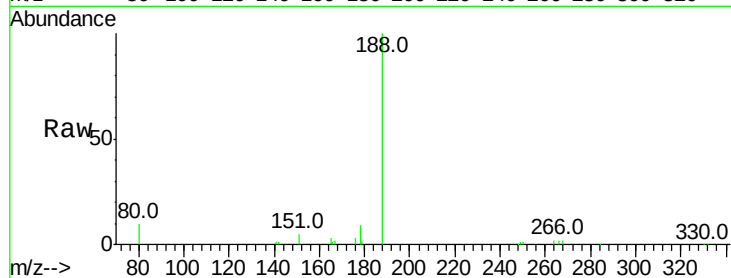
ClientSampled :

PT-BNA-Soil

Tot Ion:	188	Resp:	23185
Ion Ratio	Lower	Upper	
188	100		
94	0.0	3.9	5.9#
80	9.8	3.6	5.4#

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#20

4-Bromophenyl-phenylether

Concen: 66.627 ng

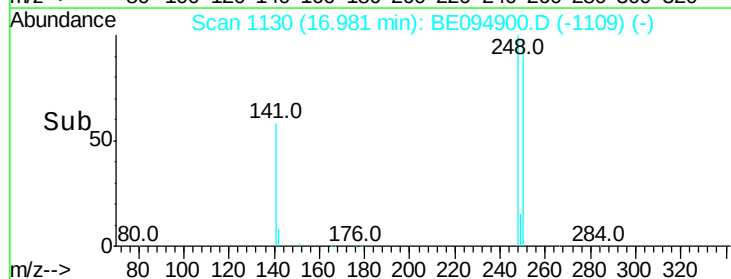
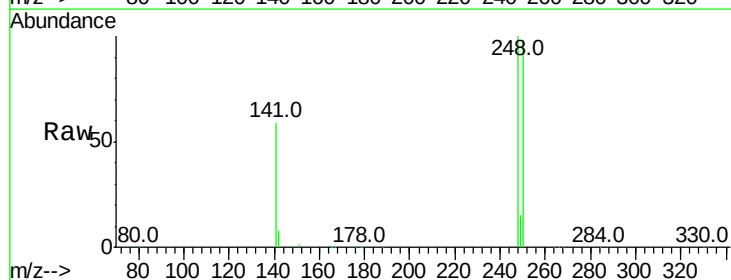
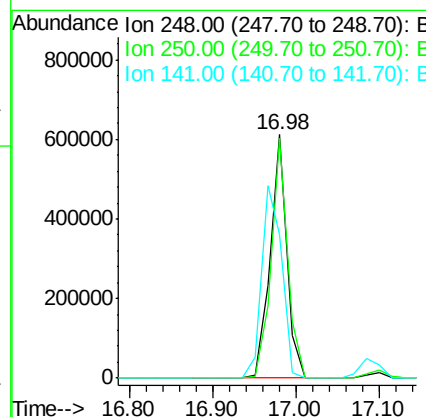
RT: 16.98 min Scan# 1130

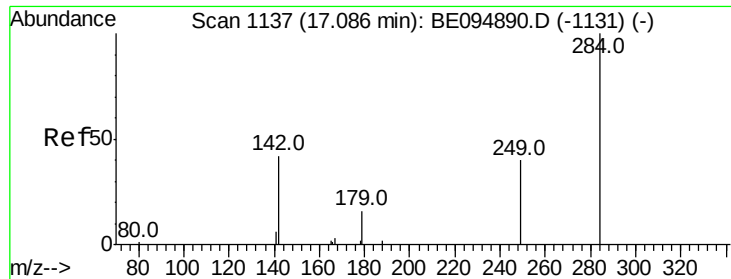
Delta R.T. 0.01 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Tgt Ion:	248	Resp:	861800
Ion Ratio	Lower	Upper	
248	100		
250	98.4	62.7	94.1#
141	59.0	48.2	72.2





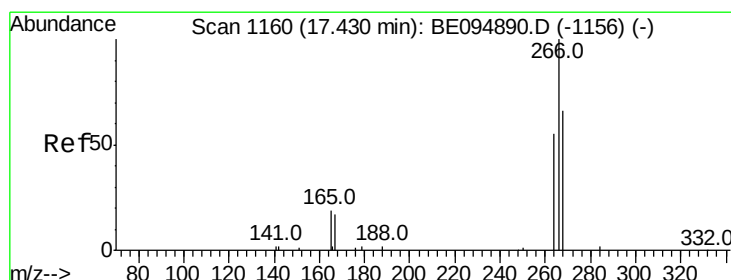
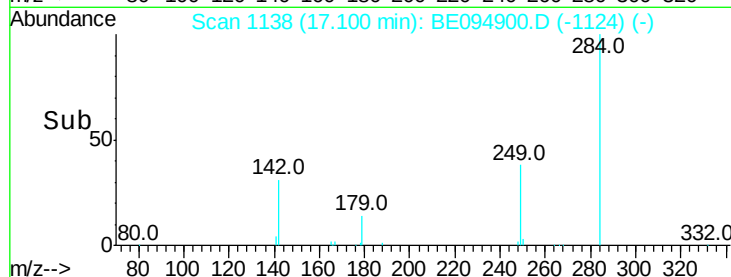
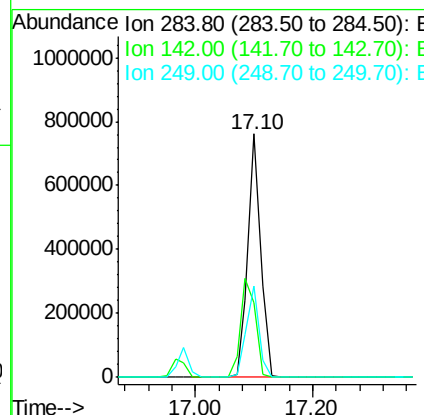
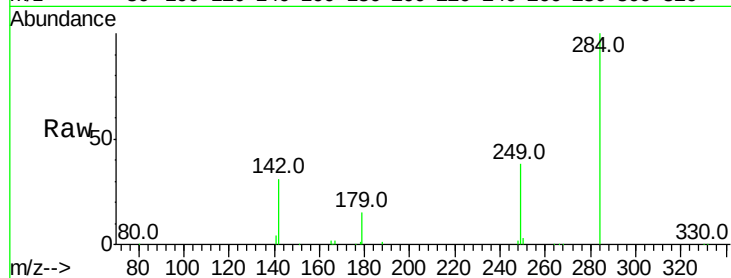
#21
Hexachlorobenzene
Concen: 92.608 ng
RT: 17.10 min Scan# 1138
Delta R.T. 0.01 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Instrument :
BNA_E
ClientSampleId :
PT-BNA-Soil

Tot Ion:284 Resp: 1168445
Ion Ratio Lower Upper
284 100
142 47.5 22.1 33.1#
249 37.2 34.8 52.2

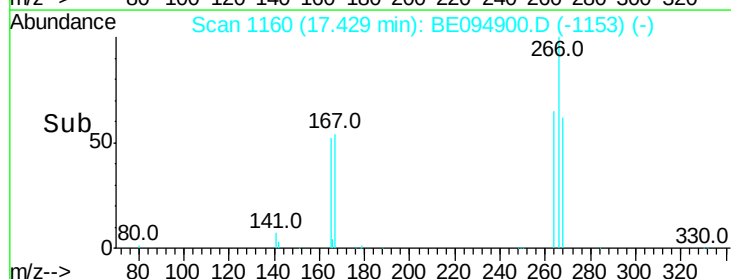
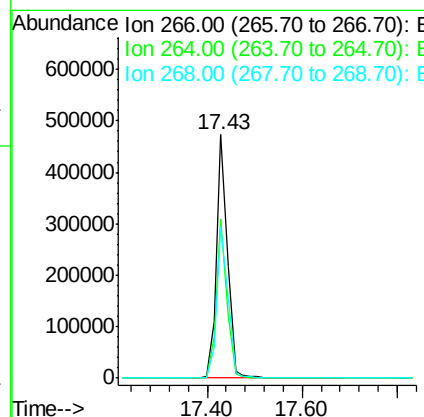
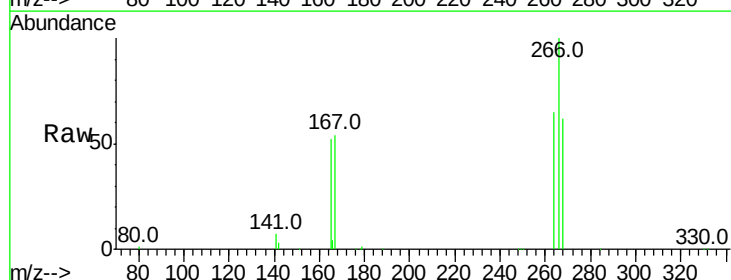
Manual Integrations
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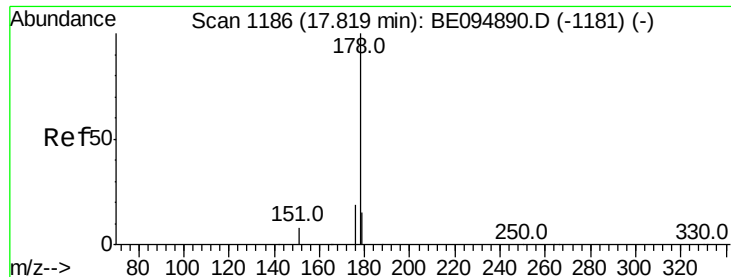
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#22
Pentachlorophenol
Concen: 179.584 ng
RT: 17.43 min Scan# 1160
Delta R.T. 0.00 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Tgt Ion:266 Resp: 749774
Ion Ratio Lower Upper
266 100
264 65.2 72.5 108.7#
268 62.1 73.8 110.6#





#23

Phenanthrene

Concen: 36.354 ng

RT: 17.83 min Scan# 1187

Delta R.T. 0.01 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

ClientSampleId :

PT-BNA-Soil

Tot Ion:178 Resp: 2685662

Ion Ratio Lower Upper

178 100

176 20.7 15.1 22.7

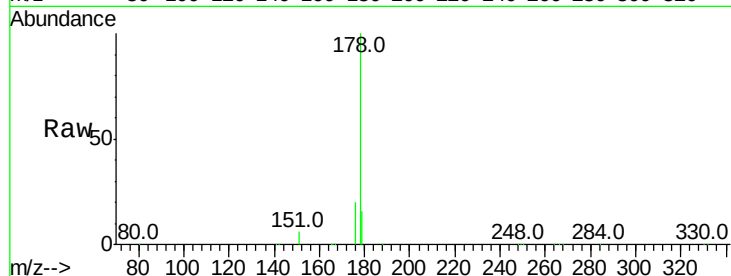
179 15.6 11.8 17.6

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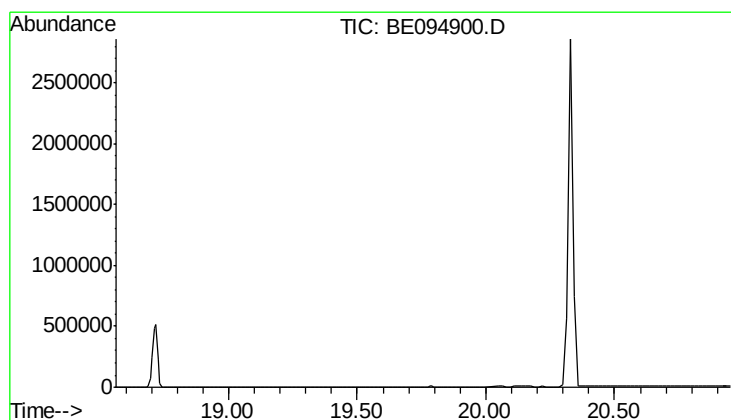
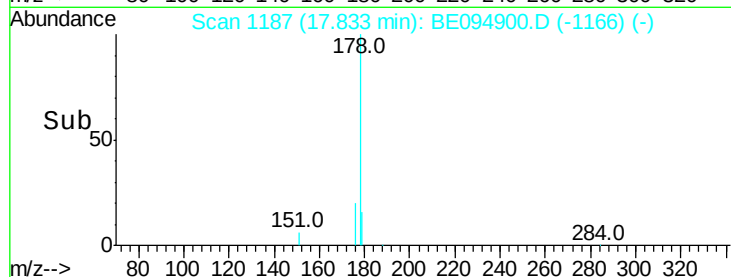
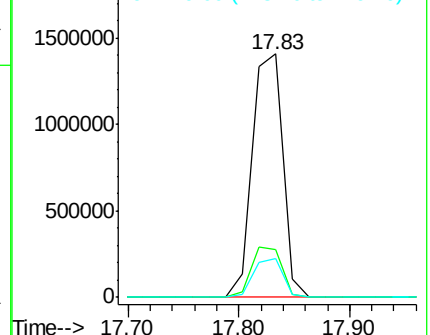
12/4/2017 11:58:27 AM



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: 19.76 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

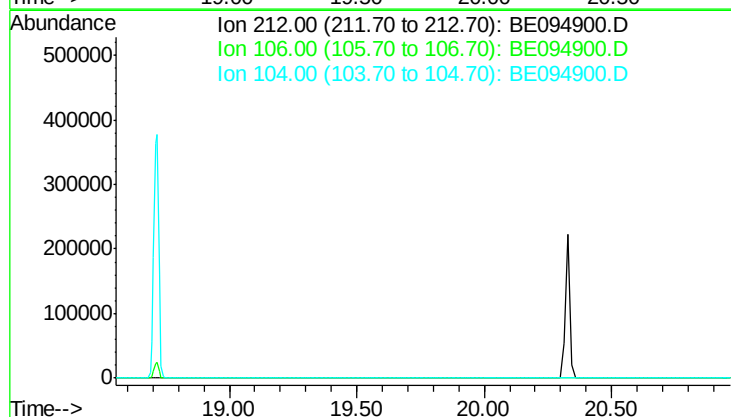
Tgt Ion: 212

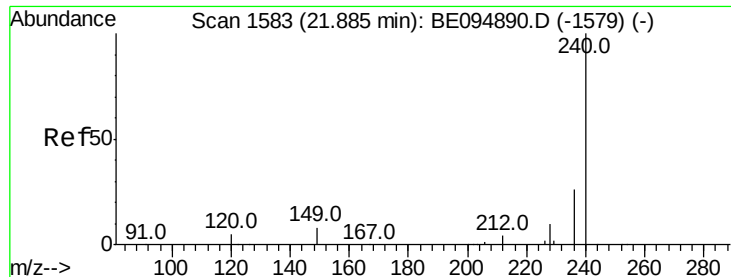
Sig Exp Ratio

212 100

106 3.5

104 2.0





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.90 min Scan# 1584

Delta R.T. 0.02 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

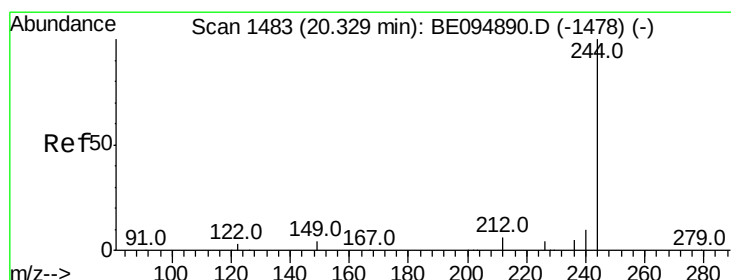
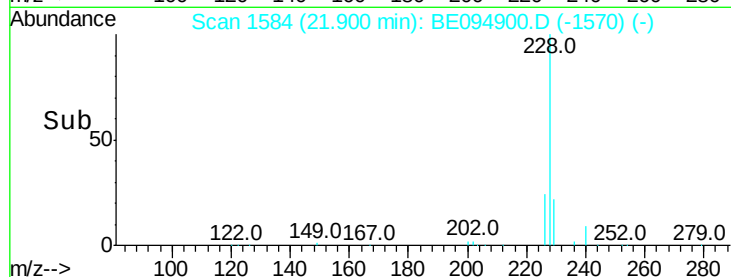
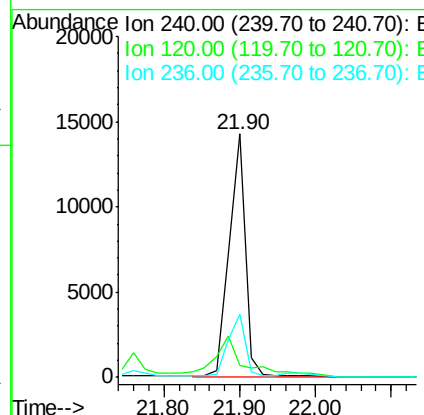
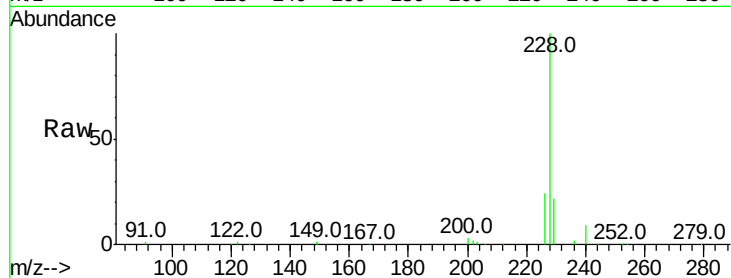
ClientSampleId :

PT-BNA-Soil

Tot Ion	Ratio	Lower	Upper
240	100		
120	4.7	5.5	8.3#
236	26.0	20.7	31.1

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#29

Terphenyl-d14

Concen: 60.647 ng

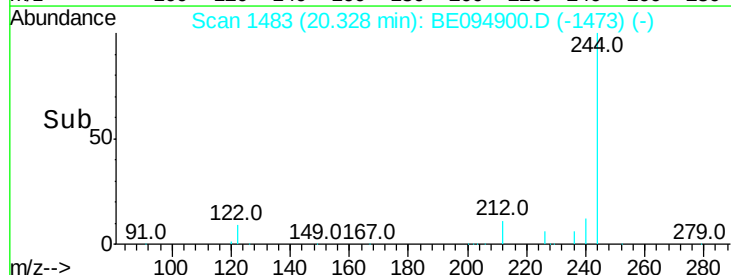
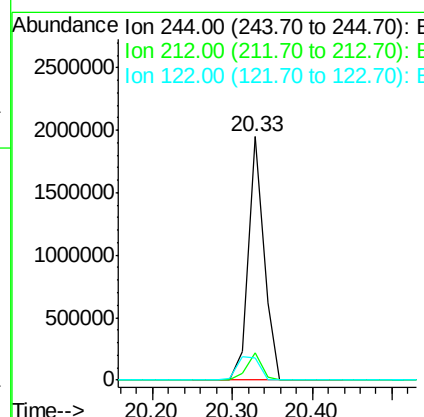
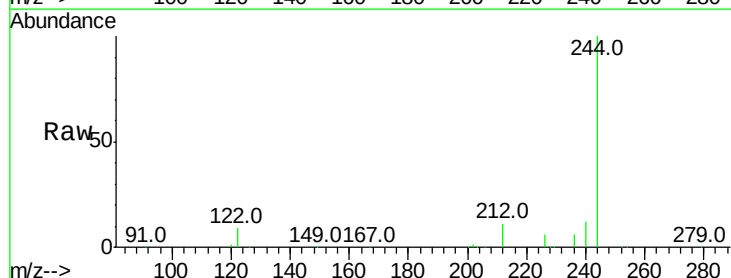
RT: 20.33 min Scan# 1483

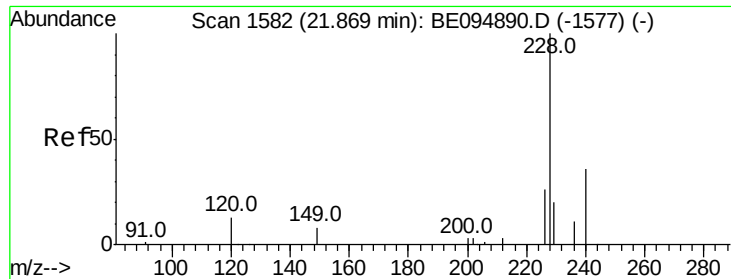
Delta R.T. -0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	25.4	38.0#
122	9.0	8.1	12.1





#30

Benzo(a)anthracene

Concen: 80.069 ng m

RT: 21.88 min Scan# 1583

Delta R.T. 0.02 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

ClientSampleId :

PT-BNA-Soil

Tot Ion:228 Resp: 5754186

Ion Ratio Lower Upper

228 100

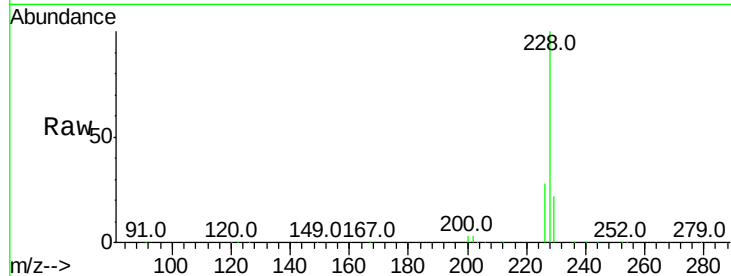
226 28.4 40.0 60.0#

229 22.4 40.0 60.0#

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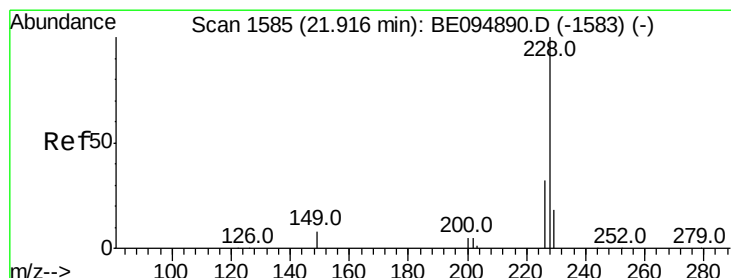
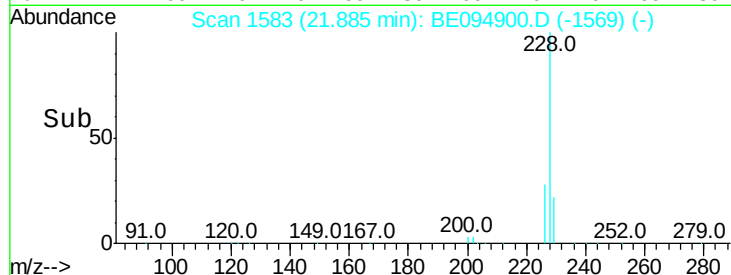
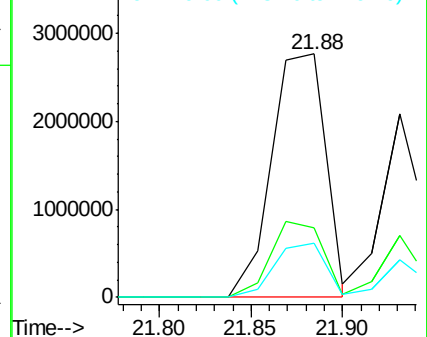
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 48.615 ng m

RT: 21.93 min Scan# 1586

Delta R.T. 0.02 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Tgt Ion:228 Resp: 3860323

Ion Ratio Lower Upper

228 100

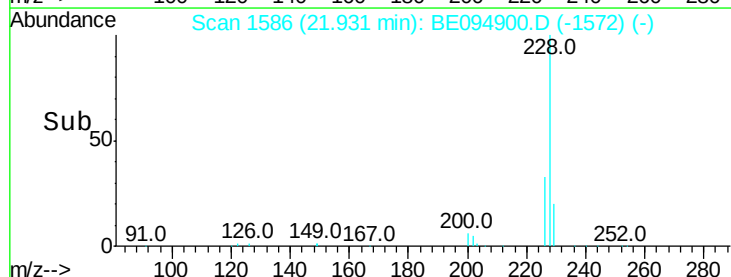
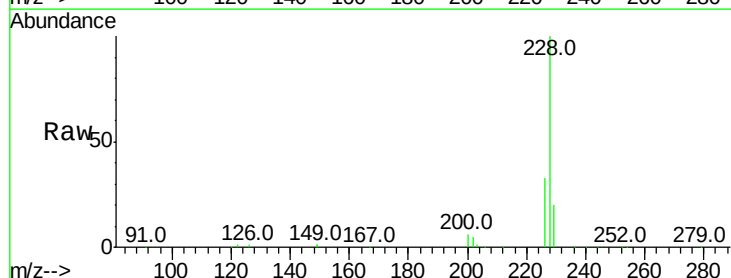
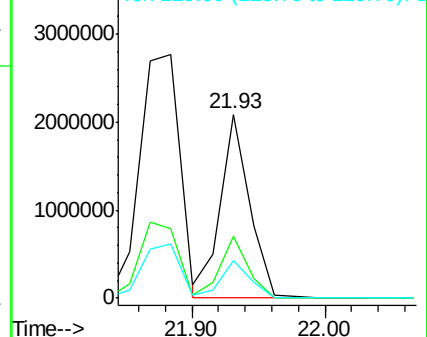
226 33.4 40.0 60.0#

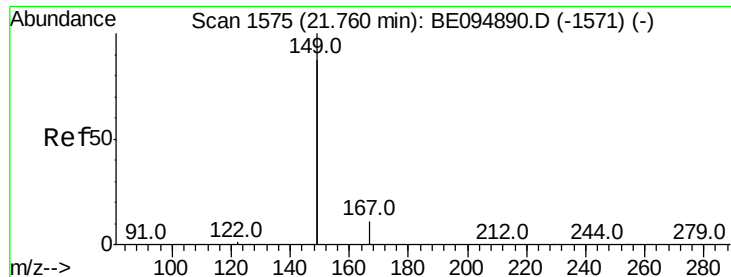
229 20.2 40.0 60.0#

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: 69.289 ng

RT: 21.76 min Scan# 1575

Delta R.T. -0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

Instrument :

BNA_E

ClientSampleId :

PT-BNA-Soil

Tot Ion:149 Resp: 8251887

Ion Ratio Lower Upper

149 100

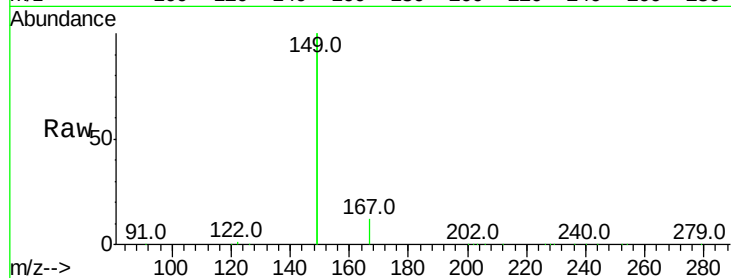
167 6.6 5.4 8.0

279 0.7 0.7 1.1

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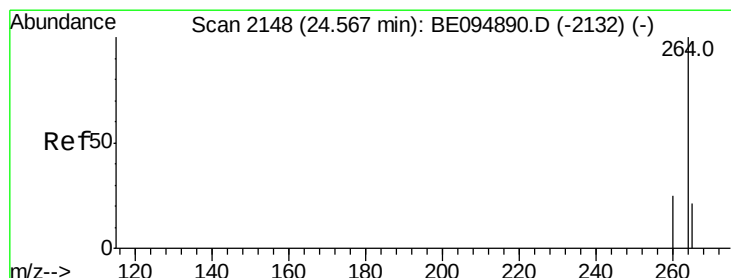
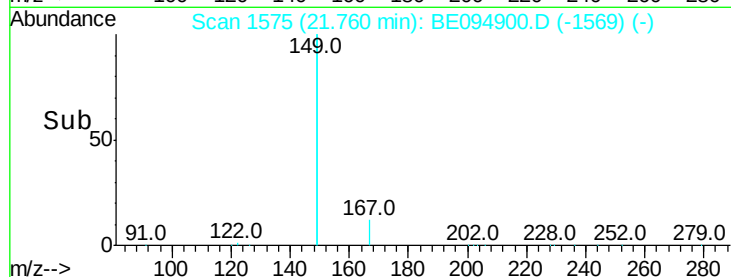
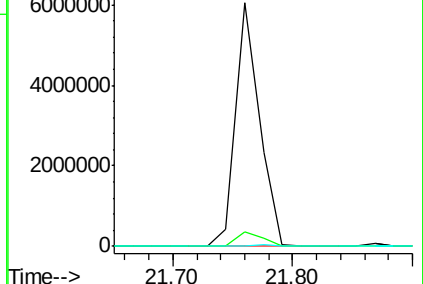
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.57 min Scan# 2149

Delta R.T. 0.00 min

Lab File: BE094900.D

Acq: 1 Dec 2017 11:57

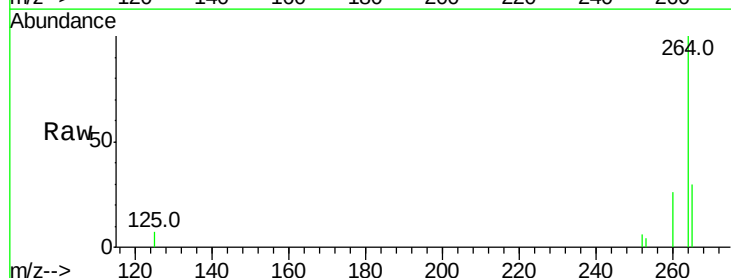
Tgt Ion:264 Resp: 19634

Ion Ratio Lower Upper

264 100

260 25.5 20.5 30.7

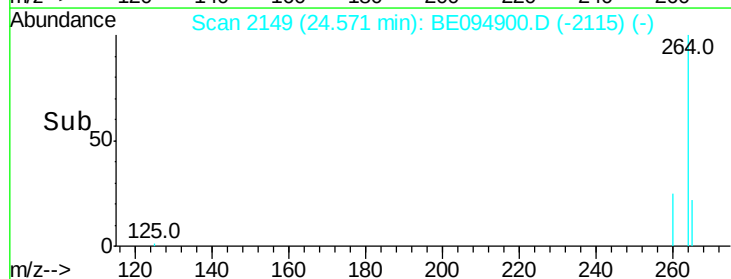
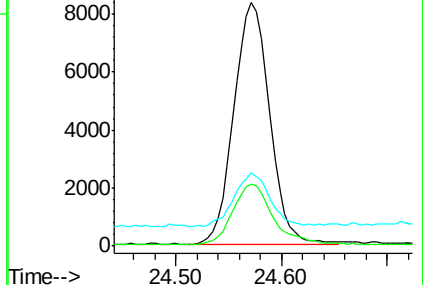
265 30.0 22.8 34.2

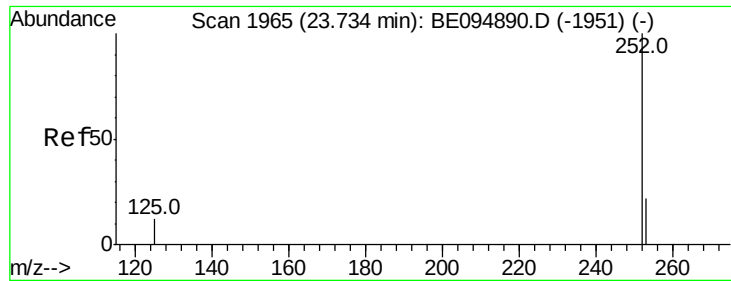


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





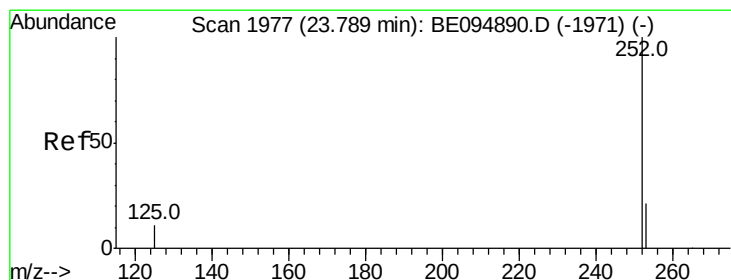
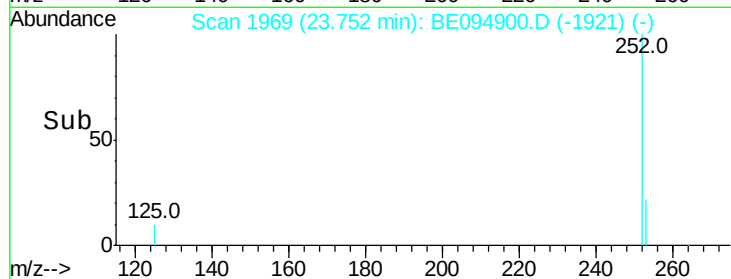
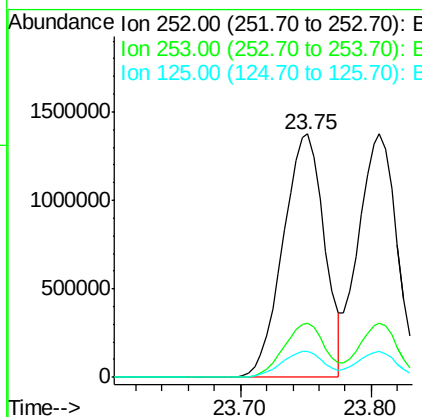
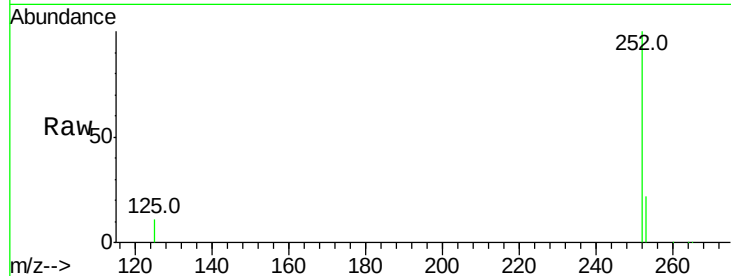
#35
Benzo(b)fluoranthene
Concen: 42.268 ng
RT: 23.75 min Scan# 1969
Delta R.T. 0.02 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Instrument :
BNA_E
ClientSampleId :
PT-BNA-Soil

Tot Ion:252 Resp: 3029845
Ion Ratio Lower Upper
252 100
253 22.4 48.0 72.0#
125 10.5 56.0 84.0#

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#36
Benzo(k)fluoranthene
Concen: 38.988 ng
RT: 23.81 min Scan# 1981
Delta R.T. 0.02 min
Lab File: BE094900.D
Acq: 1 Dec 2017 11:57

Tgt Ion:252 Resp: 2848780
Ion Ratio Lower Upper
252 100
253 22.4 48.0 72.0#
125 10.5 56.0 84.0#

