

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112717\
 Data File : BE094864.D
 Acq On : 27 Nov 2017 10:05
 Operator : SJ/JU
 Sample : I6336-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 50

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Nov 27 11:24:48 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 23 22:40:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	30020	20.00	ng	-0.02
7) Naphthalene-d8	10.67	136	187864	20.00	ng	-0.03
13) Acenaphthene-d10	14.50	164	123759	20.00	ng	-0.01
19) Phenanthrene-d10	17.23	188	334406	20.00	ng	0.00
27) Chrysene-d12	21.41	240	371792	20.00	ng	-0.01
34) Perylene-d12	23.94	264	360804	20.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.48	112	131148	63.76	ng	-0.05
5) Phenol-d6	7.08	99	139398	44.90	ng	-0.06
8) Nitrobenzene-d5	9.03	82	309235	103.09	ng	-0.05
11) 2-Methylnaphthalene-d10	12.22	152	1	0.00	ng	-0.07
14) 2,4,6-Tribromophenol	16.00	330	161525	236.58	ng	-0.03
15) 2-Fluorobiphenyl	13.12	172	778606	89.25	ng	-0.03
25) Fluoranthene-d10	19.29	212	92	-50.00	ng	0.00
29) Terphenyl-d14	19.84	244	1330989	94.93	ng	-0.02

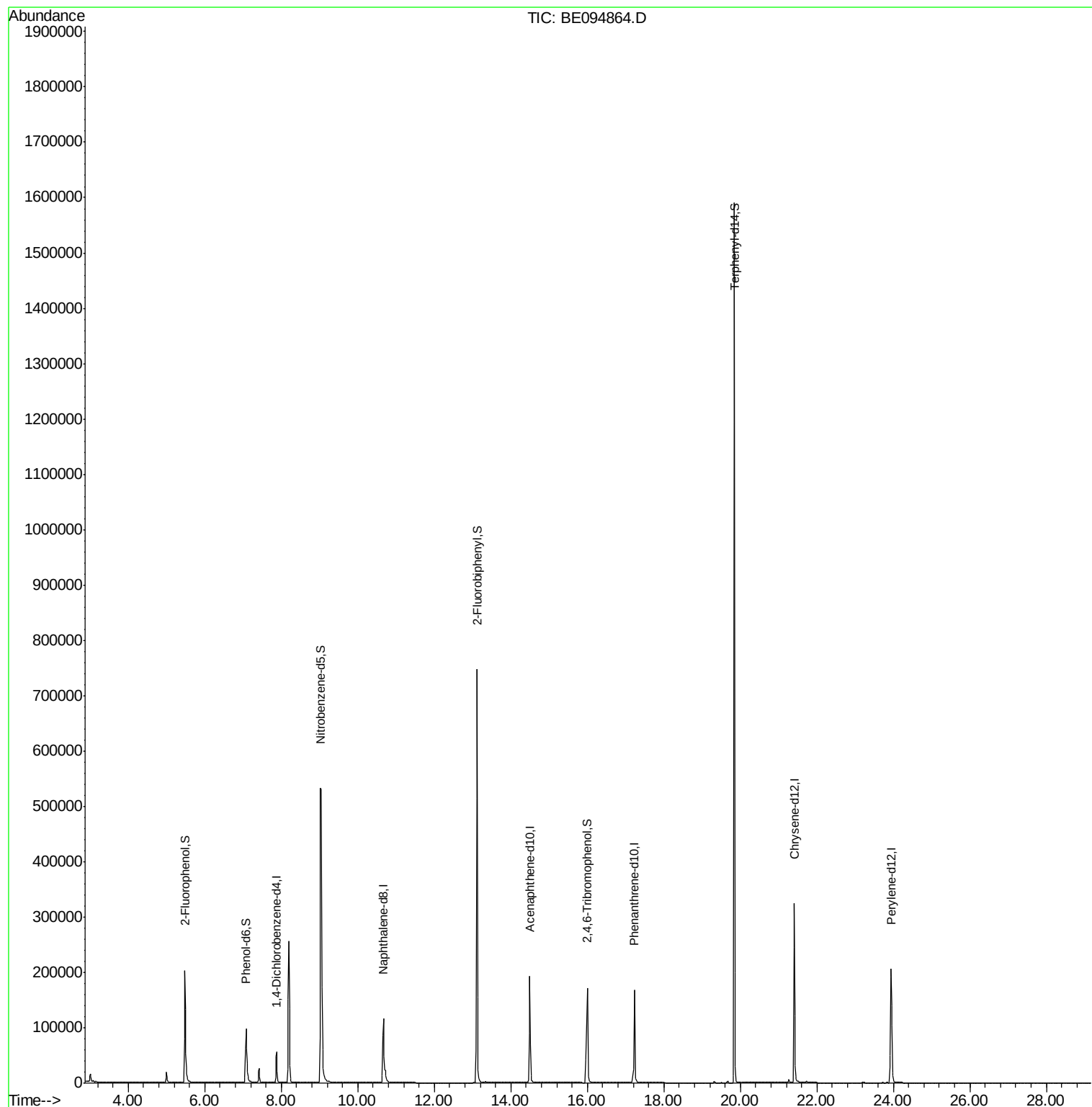
Target Compounds				Qvalue		
9) Naphthalene	10.72	128	35295	0.830	ng	100
12) 2-Methylnaphthalene	12.36	142	446	0.062	ng	# 93
16) Acenaphthylene	14.23	152	1357	0.104	ng	# 94
17) Acenaphthene	14.55	154	897	0.107	ng	98
18) Fluorene	15.56	166	787	0.073	ng	96
22) Pentachlorophenol	17.04	266	10	0.024	ng	92
23) Phenanthrene	17.27	178	2282	Below Cal	#	84
24) Anthracene	17.40	178	483	0.025	ng	95
26) Fluoranthene	19.31	202	2508	Below Cal		98
28) Pylene	19.67	202	2133	0.082	ng	96
30) Benzo(a)anthracene	21.40	228	1831	0.076	ng	# 67
31) Chrysene	21.40	228	1831	0.075	ng	# 67
32) Bis(2-ethylhexyl)phthalate	21.27	149	4769	0.080	ng	# 100
33) Indeno(1,2,3-cd)pyrene	26.72	276	477	0.021	ng	# 86
35) Benzo(b)fluoranthene	23.18	252	881	0.038	ng	# 73
36) Benzo(k)fluoranthene	23.18	252	881	0.035	ng	# 73
39) Benzo(a,h,i)perylene	27.56	276	632	0.033	ng	# 87

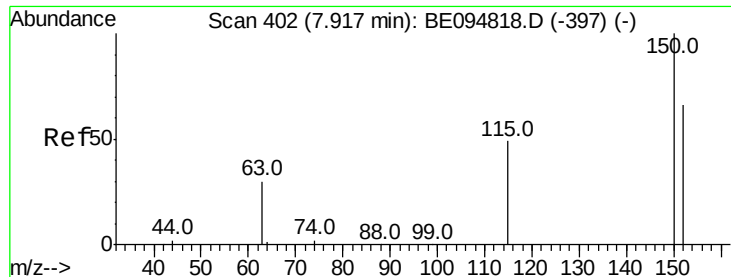
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.88 min Scan# 399

Delta R.T. -0.02 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

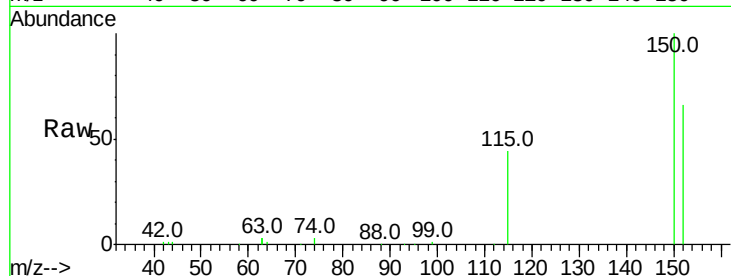
Tot Ion:152 Resp: 30020

Ion Ratio Lower Upper

152 100

150 152.0 117.2 175.8

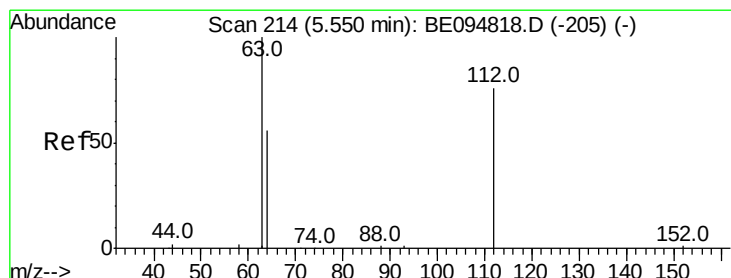
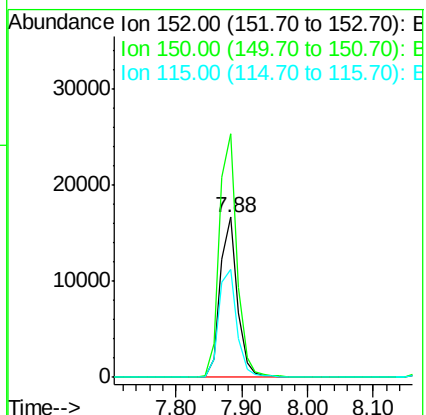
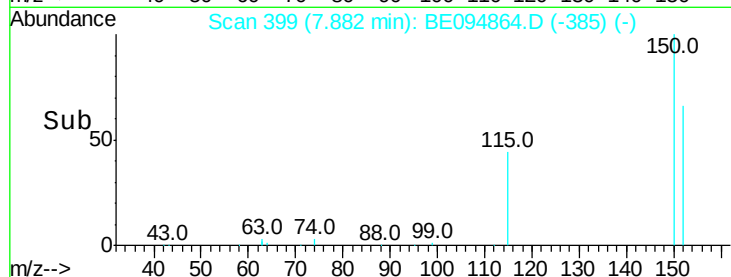
115 67.4 57.0 85.6



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: 63.760 ng

RT: 5.48 min Scan# 208

Delta R.T. -0.05 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

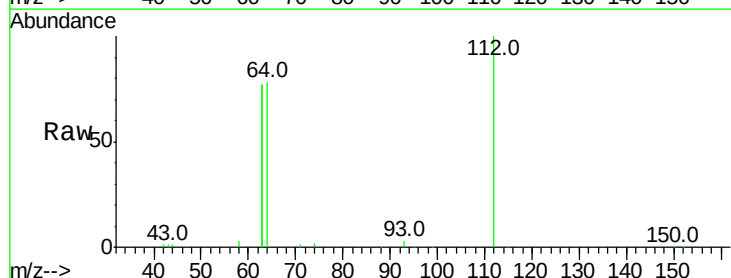
Tgt Ion:112 Resp: 131148

Ion Ratio Lower Upper

112 100

64 67.4 60.1 90.1

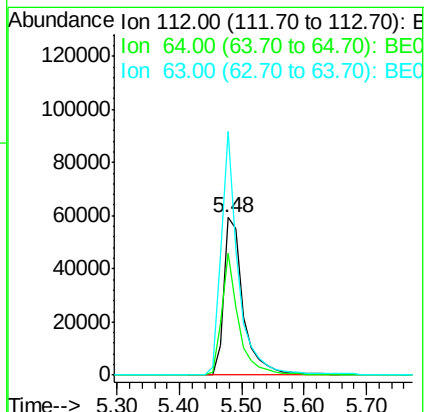
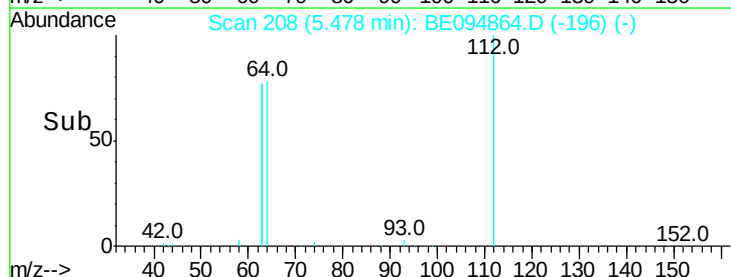
63 134.0 116.8 175.2

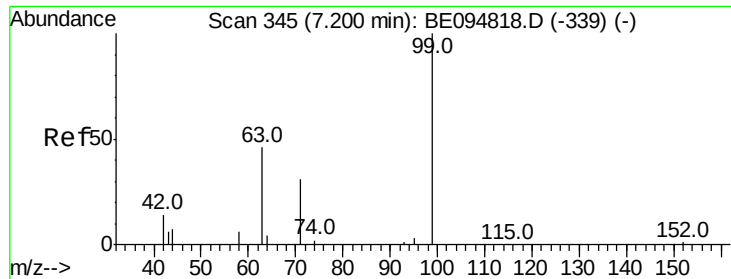


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 44.897 ng

RT: 7.08 min Scan# 335

Delta R.T. -0.06 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

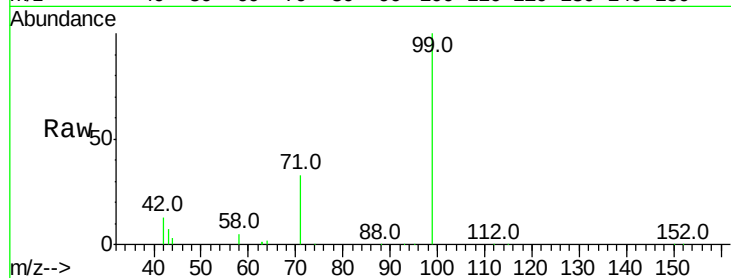
Instrument :

BNA_E

ClientSampleId :

Tot Ion: 99 Resp: 139398

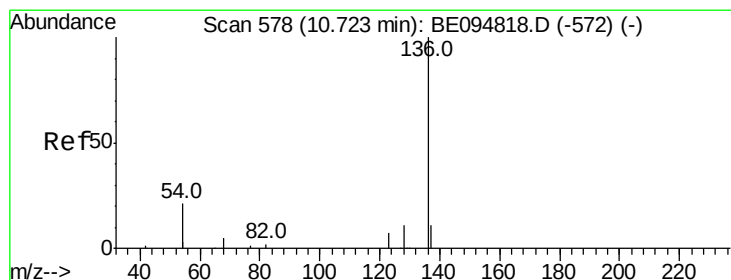
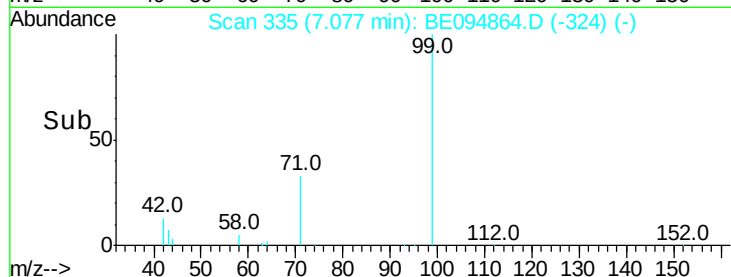
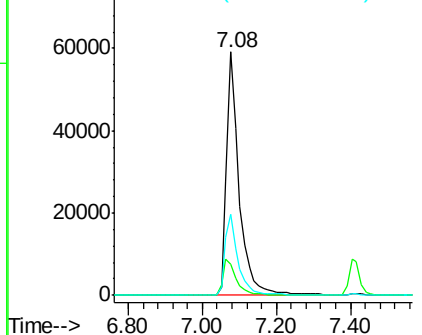
Ion	Ratio	Lower	Upper
99	100		
42	15.8	20.2	30.2#
71	34.5	28.4	42.6



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



#7

Naphthalene-d8

Concen: 20.000 ng

RT: 10.67 min Scan# 575

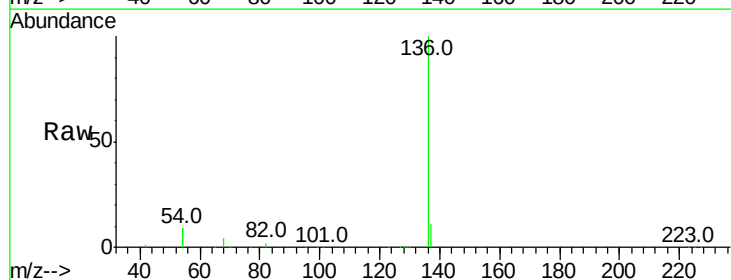
Delta R.T. -0.03 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Tgt Ion: 136 Resp: 187864

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.5	14.3
54	18.4	29.1	43.7#
68	4.0	6.2	9.2#

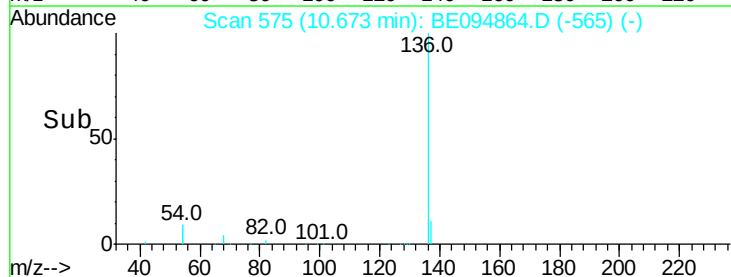
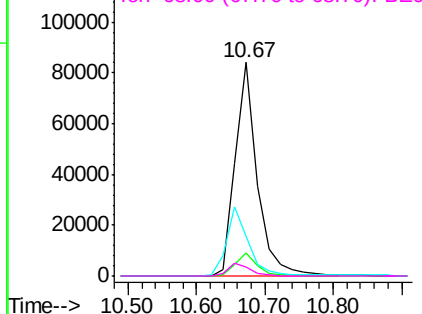


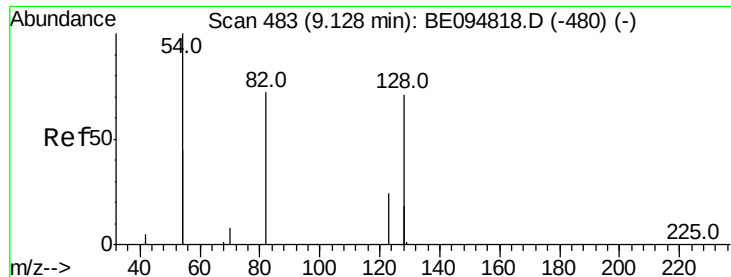
Abundance Ion 136.00 (135.70 to 136.70): E

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

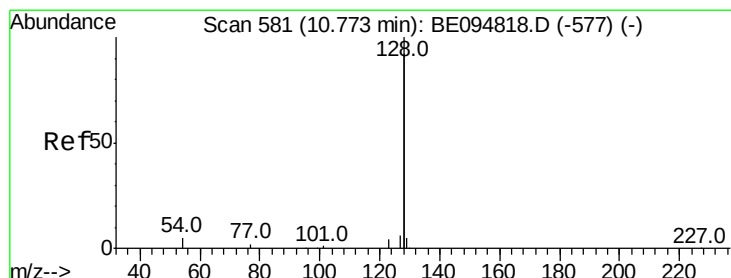
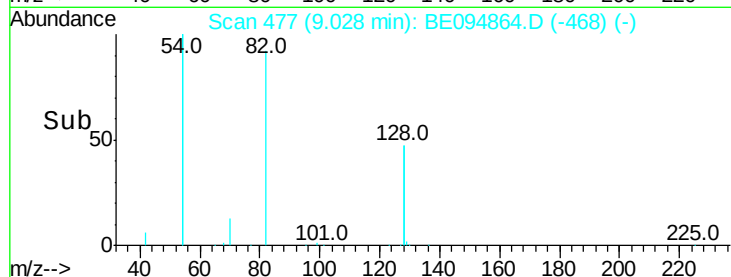
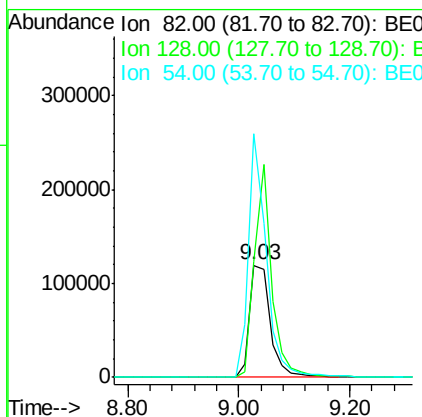
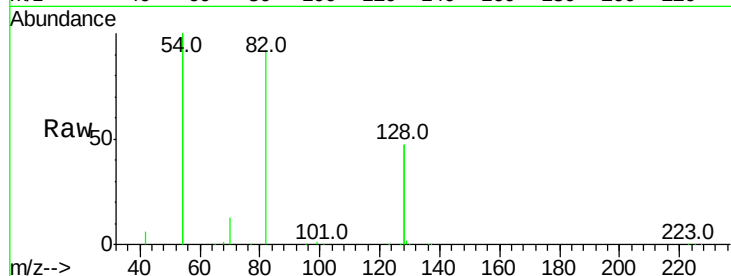




#8
 Nitrobenzene-d5
 Concen: 103.088 ng
 RT: 9.03 min Scan# 477
 Delta R.T. -0.05 min
 Lab File: BE094864.D
 Acq: 27 Nov 2017 10:05

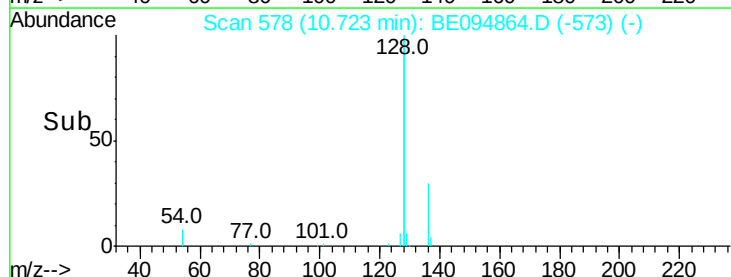
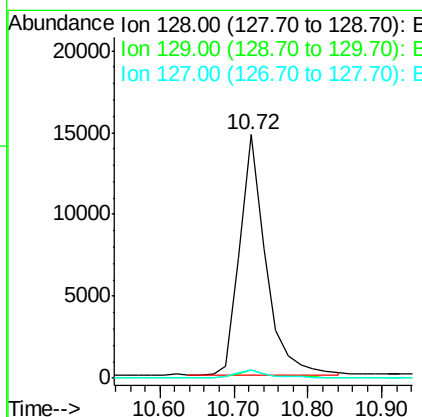
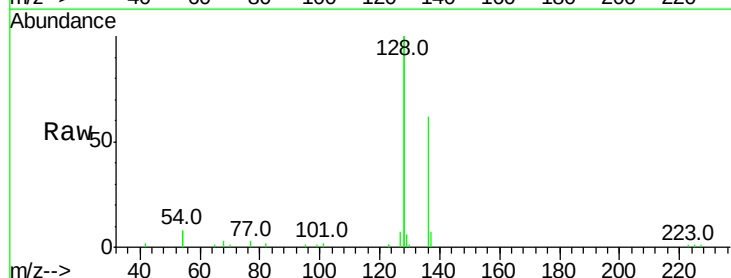
Instrument :
 BNA_E
 ClientSampleId :

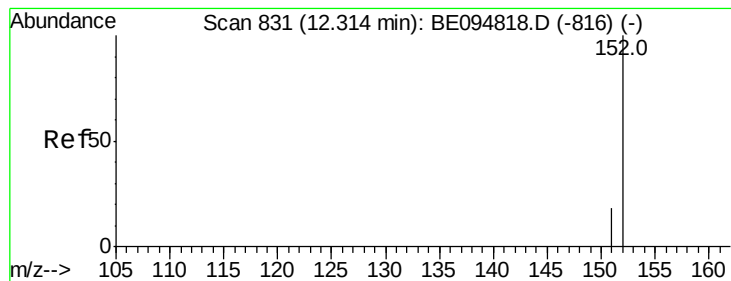
Tot Ion	82	Resp	309235
Ion	Ratio	Lower	Upper
82	100		
128	103.3	150.0	225.0#
54	217.9	154.2	231.4



#9
 Naphthalene
 Concen: 0.830 ng
 RT: 10.72 min Scan# 578
 Delta R.T. -0.02 min
 Lab File: BE094864.D
 Acq: 27 Nov 2017 10:05

Tgt Ion	128	Resp	35295
Ion	Ratio	Lower	Upper
128	100		
129	3.2	2.6	3.8
127	3.4	2.8	4.2





#11

2-Methylnaphthalene-d10

Concen: 0.000 ng

RT: 12.22 min Scan# 806

Delta R.T. -0.07 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

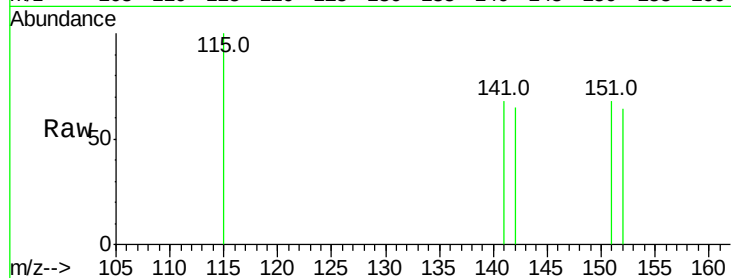
ClientSampleId :

Tot Ion:152 Resp: 1

Ion Ratio Lower Upper

152 100

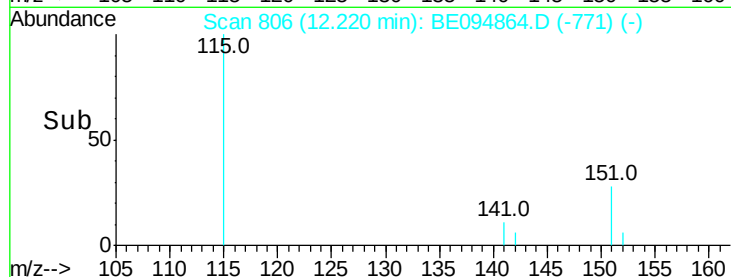
151 0.0 15.4 23.0#



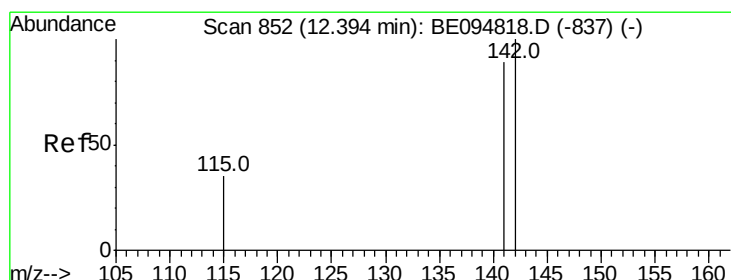
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.22



Time--> 12.21 12.22 12.23



#12

2-Methylnaphthalene

Concen: 0.062 ng

RT: 12.36 min Scan# 842

Delta R.T. -0.01 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

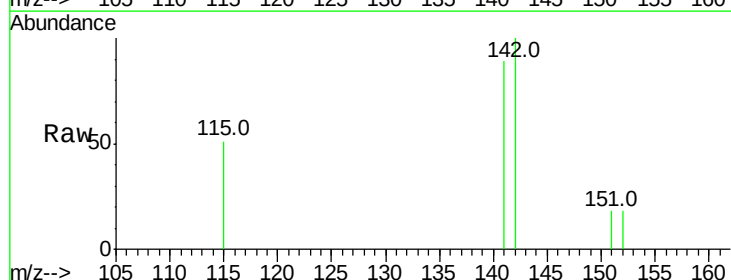
Tgt Ion:142 Resp: 446

Ion Ratio Lower Upper

142 100

141 89.3 70.4 105.6

115 50.7 31.7 47.5#

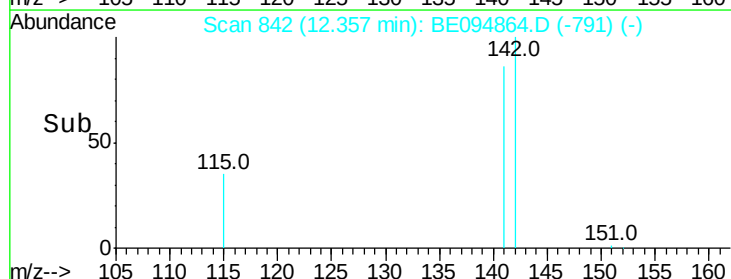


Abundance Ion 142.00 (141.70 to 142.70): E

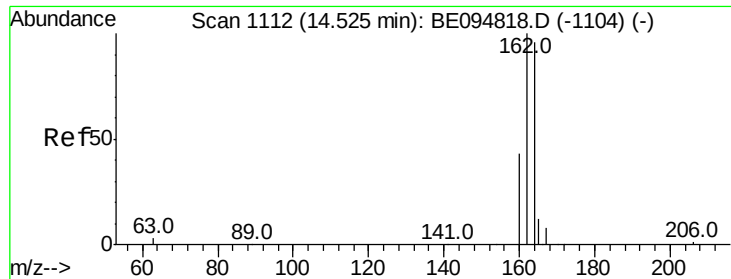
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

12.36



Time--> 12.30 12.40



#13

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.50 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

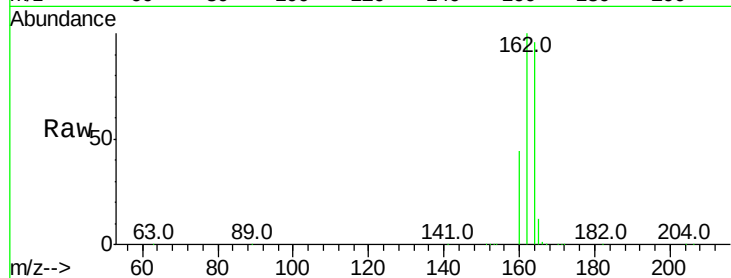
Tot Ion:164 Resp: 123759

Ion Ratio Lower Upper

164 100

162 104.4 83.1 124.7

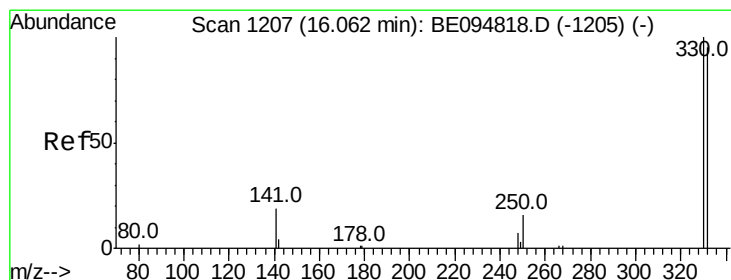
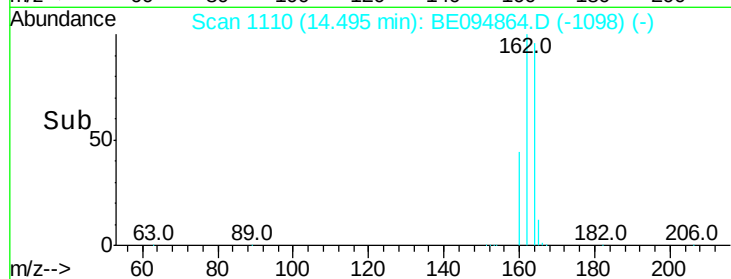
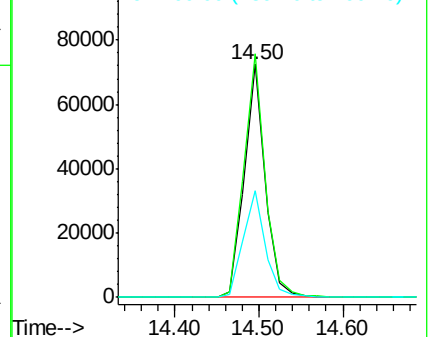
160 45.6 37.1 55.7



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: 236.584 ng

RT: 16.00 min Scan# 1205

Delta R.T. -0.03 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

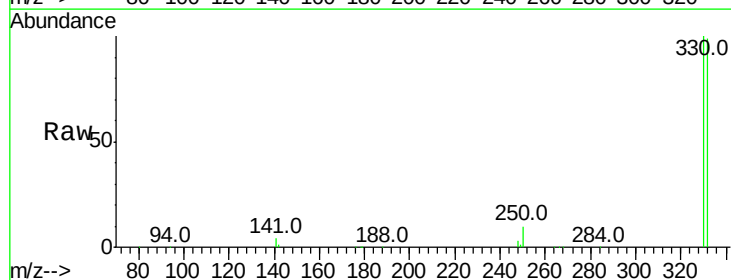
Tgt Ion:330 Resp: 161525

Ion Ratio Lower Upper

330 100

332 100.6 152.7 229.1#

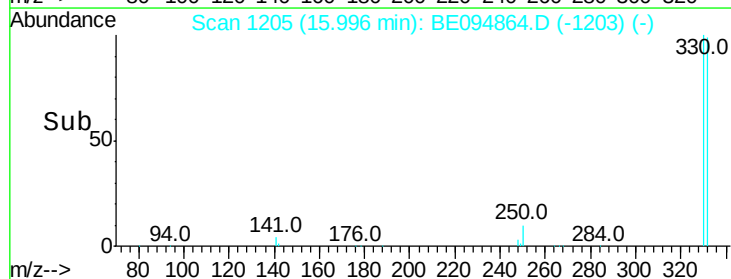
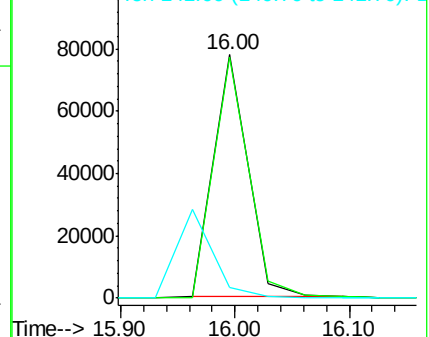
141 0.0 33.7 50.5#

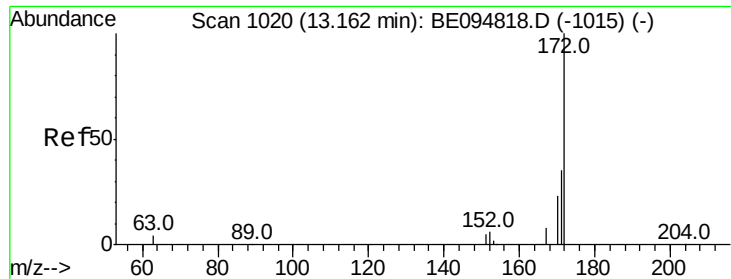


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

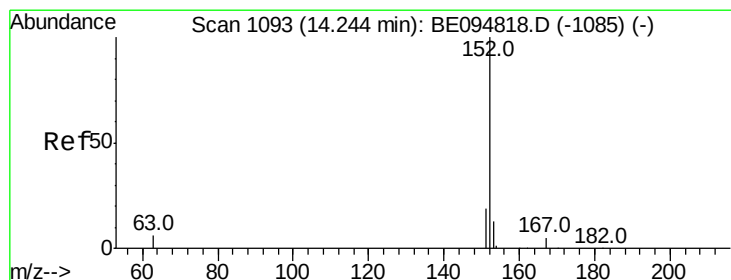
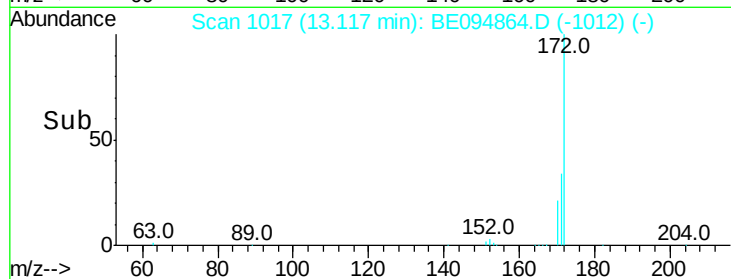
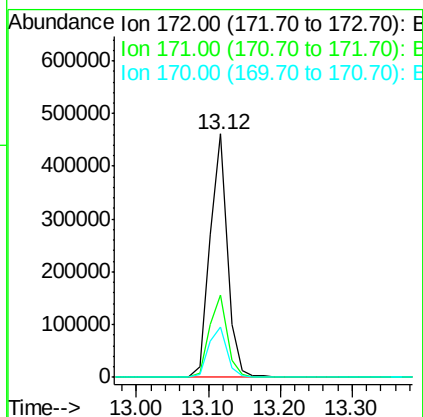
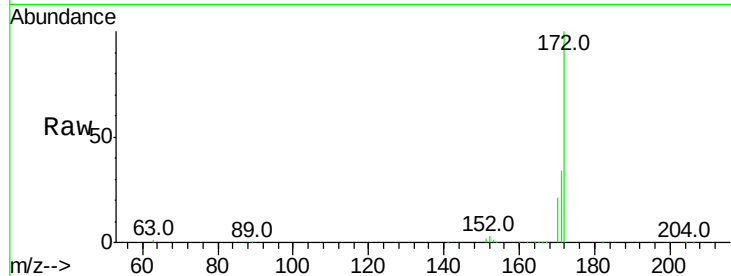




#15
2-Fluorobiphenyl
Concen: 89.254 ng
RT: 13.12 min Scan# 1017
Delta R.T. -0.03 min
Lab File: BE094864.D
Acq: 27 Nov 2017 10:05

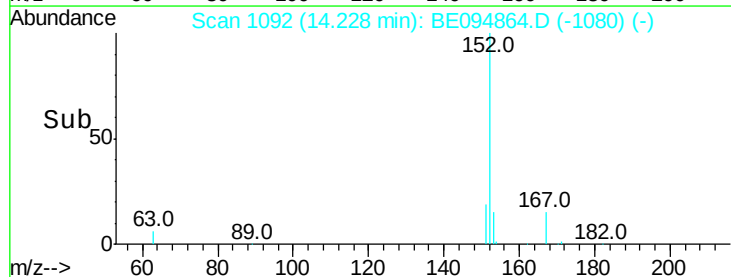
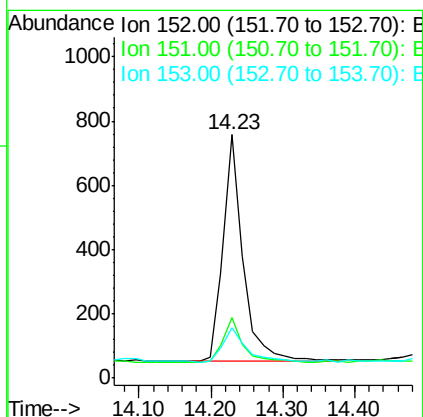
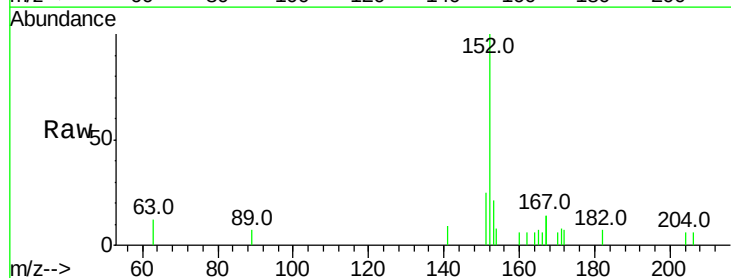
Instrument :
BNA_E
ClientSampleId :

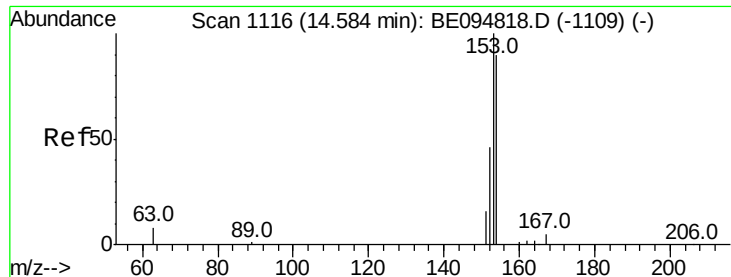
Tot Ion:172 Resp: 778606
Ion Ratio Lower Upper
172 100
171 33.8 29.9 44.9
170 20.9 21.8 32.8#



#16
Acenaphthylene
Concen: 0.104 ng
RT: 14.23 min Scan# 1092
Delta R.T. -0.01 min
Lab File: BE094864.D
Acq: 27 Nov 2017 10:05

Tgt Ion:152 Resp: 1357
Ion Ratio Lower Upper
152 100
151 20.5 15.7 23.5
153 17.8 10.5 15.7#

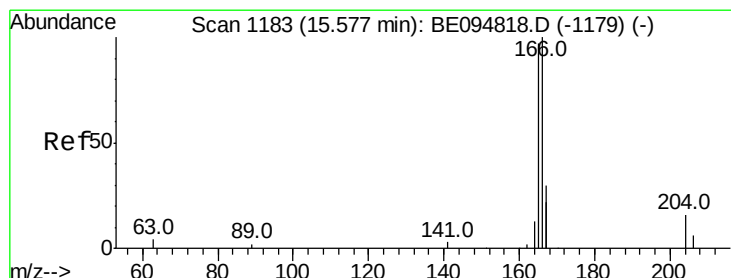
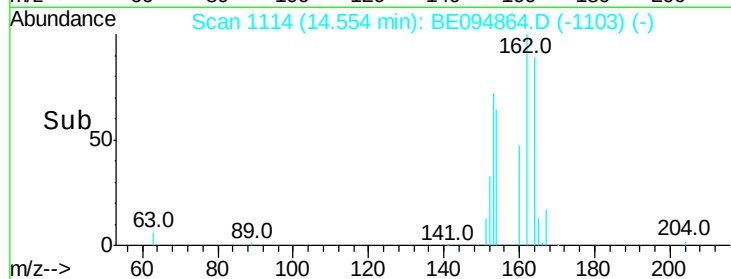
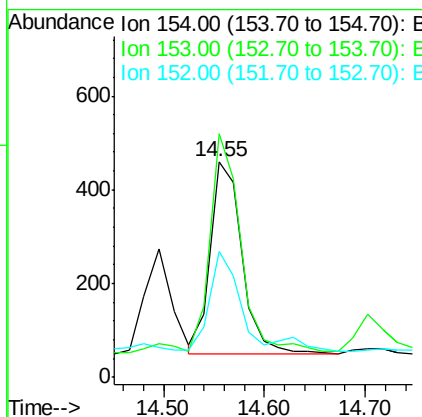
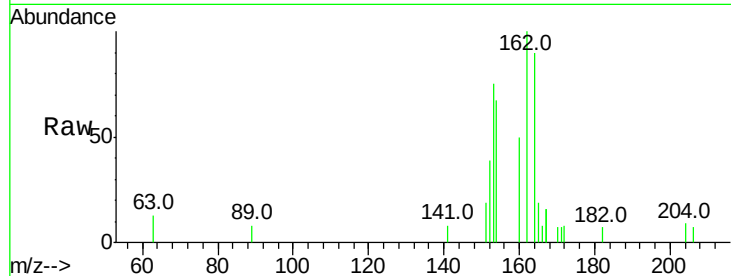




#17
Acenaphthene
Concen: 0.107 ng
RT: 14.55 min Scan# 1114
Delta R.T. -0.03 min
Lab File: BE094864.D
Acq: 27 Nov 2017 10:05

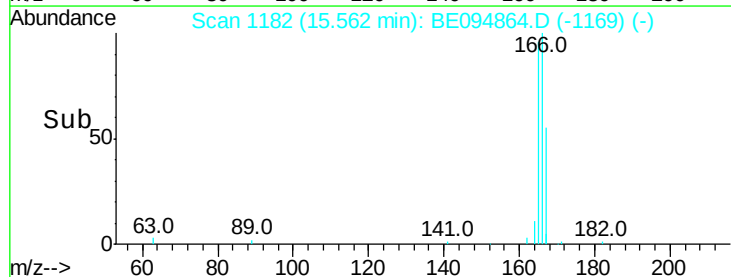
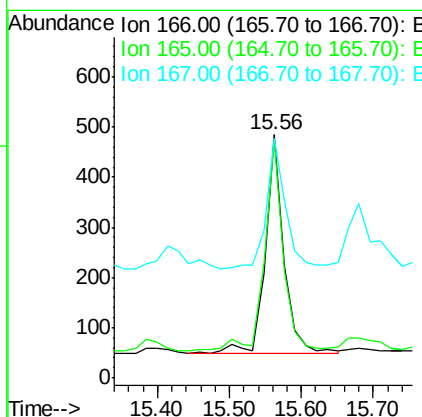
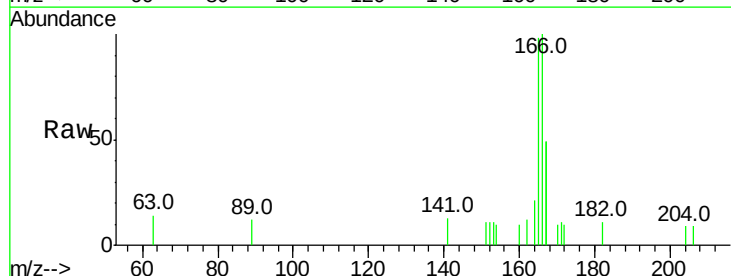
Instrument :
BNA_E
ClientSampleId :

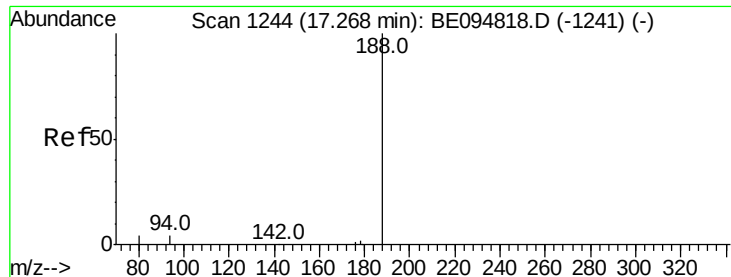
Tot Ion:154 Resp: 897
Ion Ratio Lower Upper
154 100
153 113.6 89.2 133.8
152 54.6 42.0 63.0



#18
Fluorene
Concen: 0.073 ng
RT: 15.56 min Scan# 1182
Delta R.T. -0.00 min
Lab File: BE094864.D
Acq: 27 Nov 2017 10:05

Tgt Ion:166 Resp: 787
Ion Ratio Lower Upper
166 100
165 97.6 77.8 116.6
167 61.2 42.4 63.6

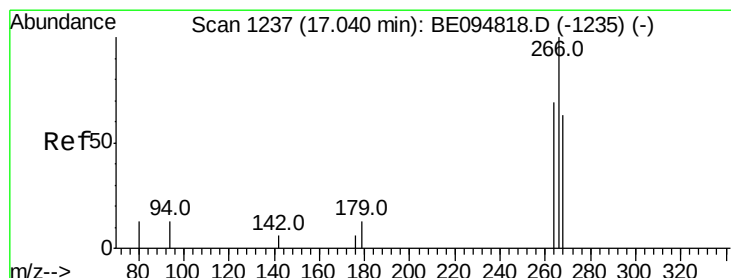
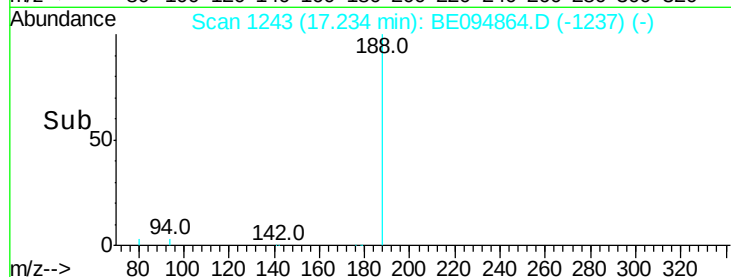
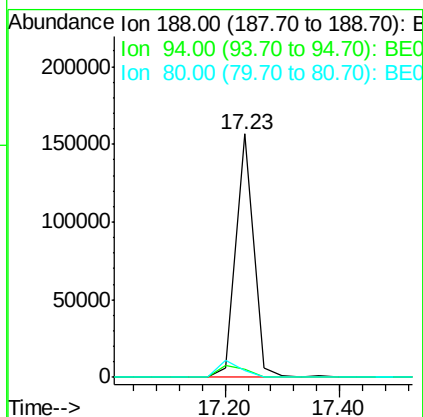
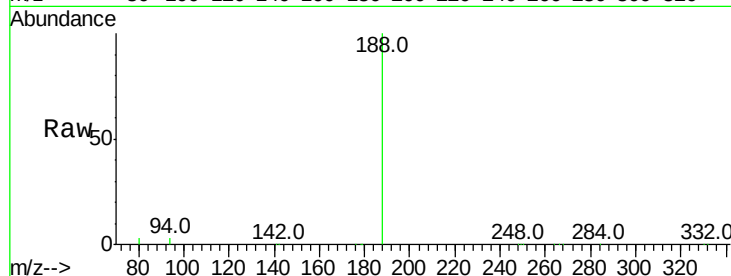




#19
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.23 min Scan# 1243
Delta R.T. -0.00 min
Lab File: BE094864.D
Acq: 27 Nov 2017 10:05

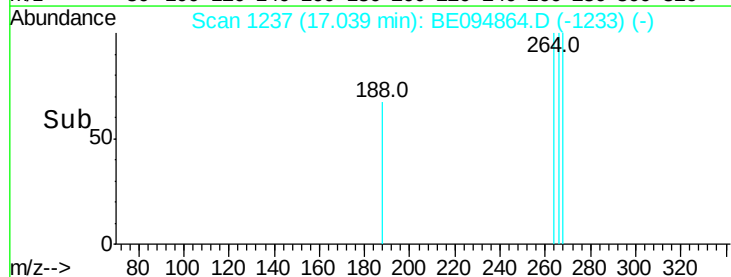
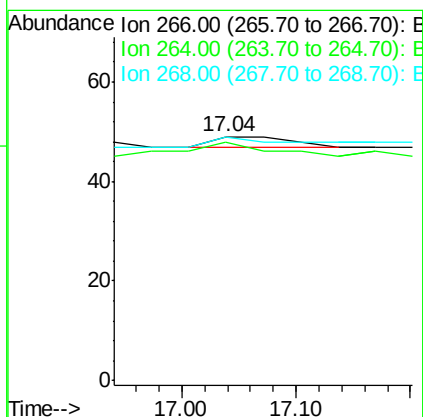
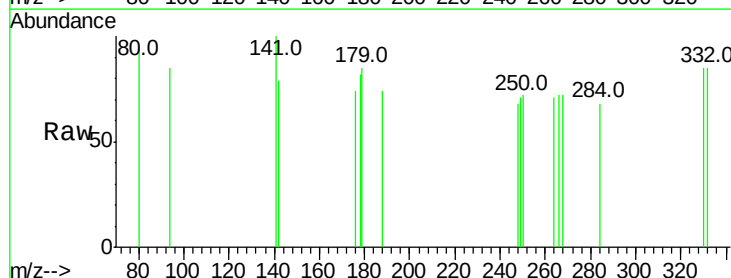
Instrument :
BNA_E
ClientSampleId :

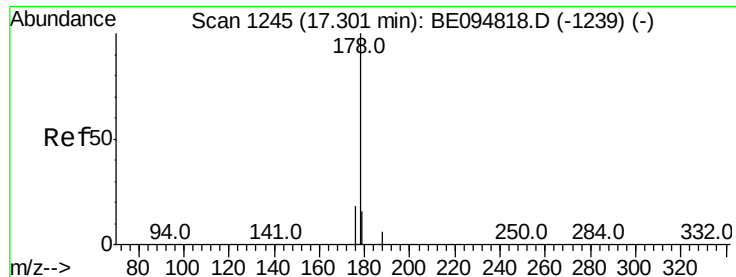
Tot Ion:188 Resp: 334406
Ion Ratio Lower Upper
188 100
94 3.3 3.9 5.9#
80 3.0 3.6 5.4#



#22
Pentachlorophenol
Concen: 0.024 ng
RT: 17.04 min Scan# 1237
Delta R.T. 0.03 min
Lab File: BE094864.D
Acq: 27 Nov 2017 10:05

Tgt Ion:266 Resp: 10
Ion Ratio Lower Upper
266 100
264 98.0 72.5 108.7
268 100.0 73.8 110.6





#23

Phenanthrene

Concen: Below Cal

RT: 17.27 min Scan# 1244

Delta R.T. -0.03 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

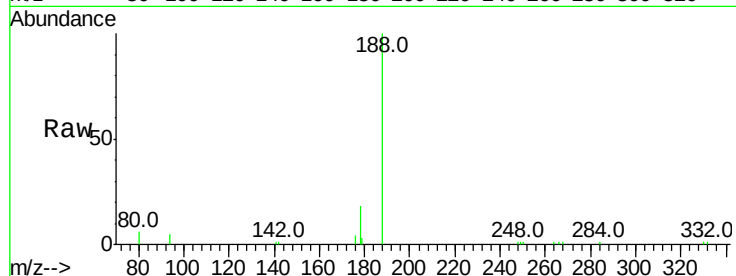
Tot Ion:178 Resp: 2282

Ion Ratio Lower Upper

178 100

176 17.8 15.1 22.7

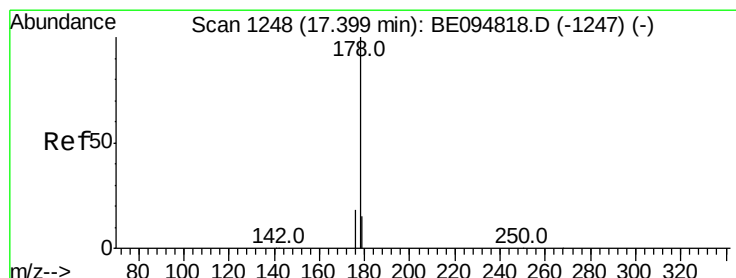
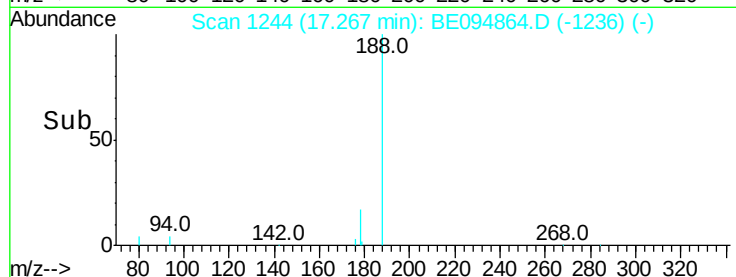
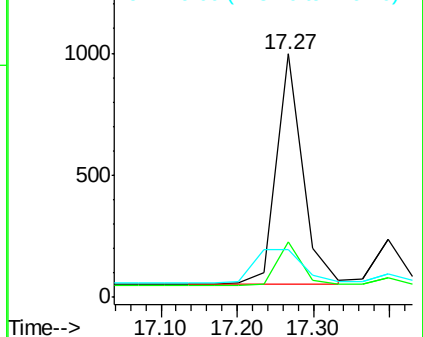
179 28.3 11.8 17.6#



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



#24

Anthracene

Concen: 0.025 ng

RT: 17.40 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

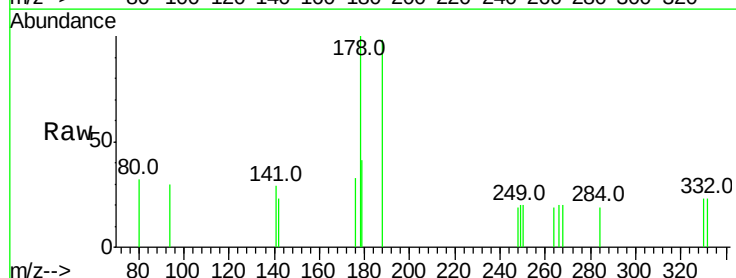
Tgt Ion:178 Resp: 483

Ion Ratio Lower Upper

178 100

176 14.9 12.8 19.2

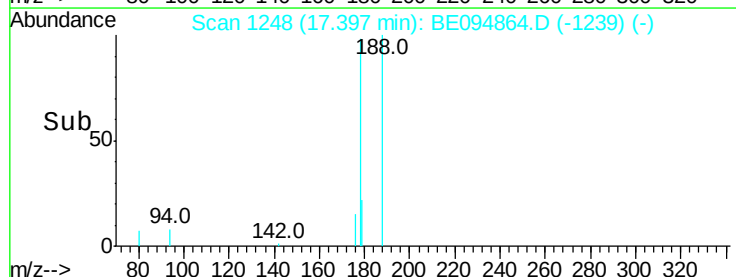
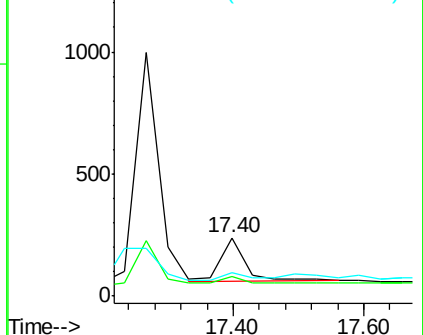
179 19.5 13.0 19.6

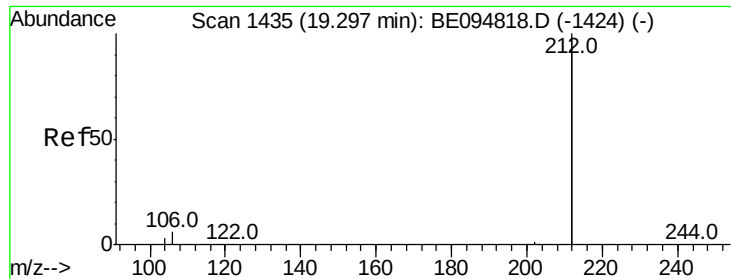


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: -50.000 ng

RT: 19.29 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE094864.D

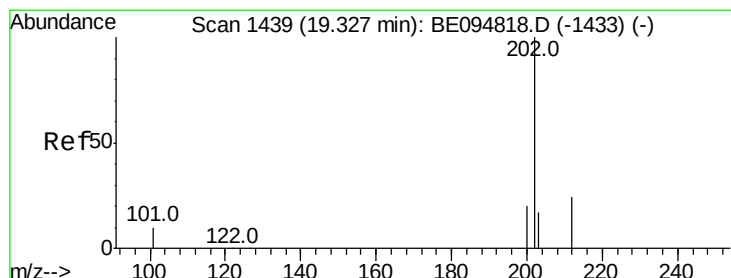
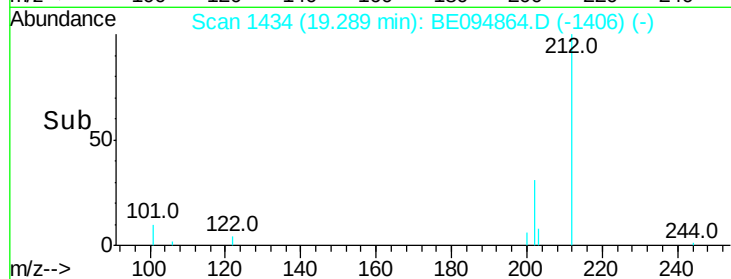
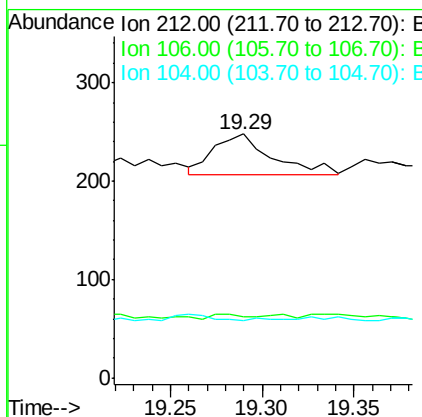
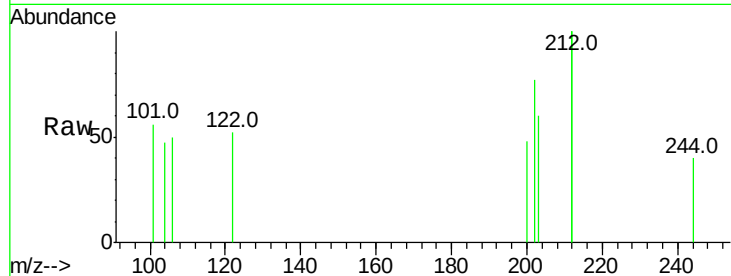
Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

Tot Ion:212	Resp:	92
Ion Ratio	Lower	Upper
212	100	
106	0.0	2.8 4.2#
104	2.2	1.6 2.4



#26

Fluoranthene

Concen: Below Cal

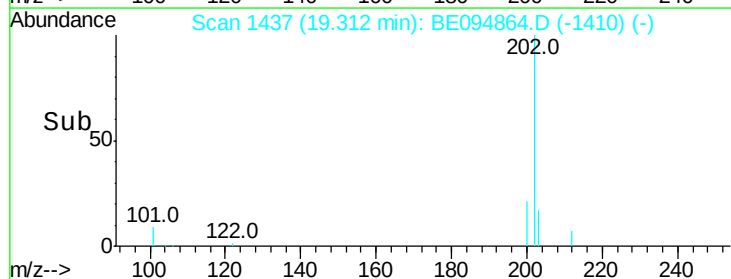
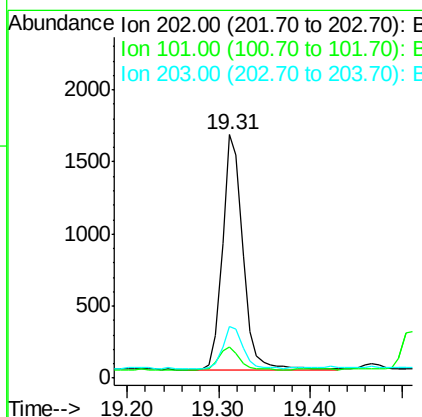
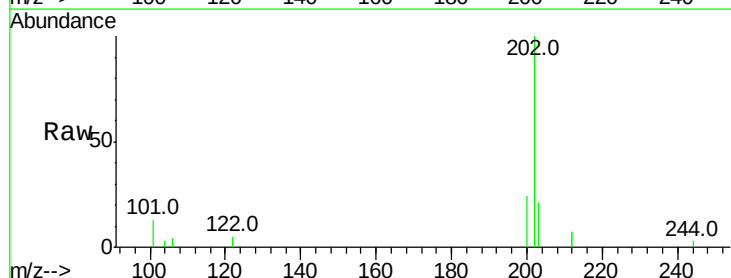
RT: 19.31 min Scan# 1437

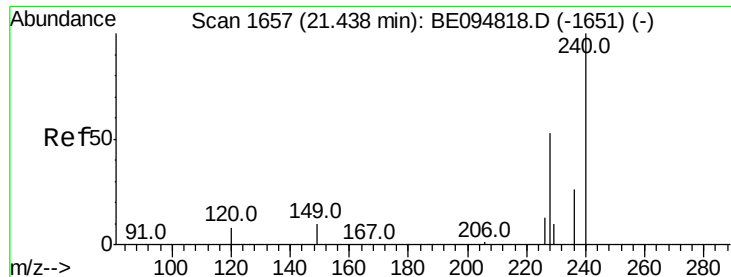
Delta R.T. -0.00 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Tgt Ion:202	Resp:	2508
Ion Ratio	Lower	Upper
202	100	
101	10.4	9.8 14.8
203	17.3	13.7 20.5





#27

Chrysene-d12

Concen: 20.000 ng

RT: 21.41 min Scan# 1655

Delta R.T. -0.01 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

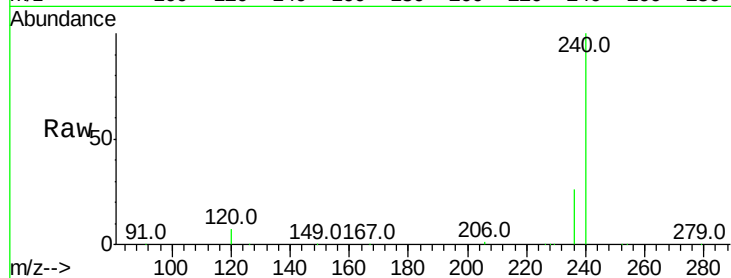
Tot Ion:240 Resp: 371792

Ion Ratio Lower Upper

240 100

120 6.6 5.5 8.3

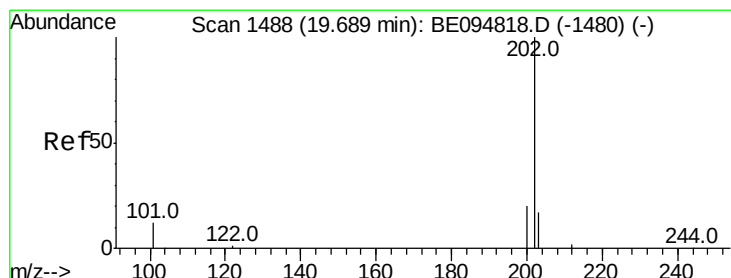
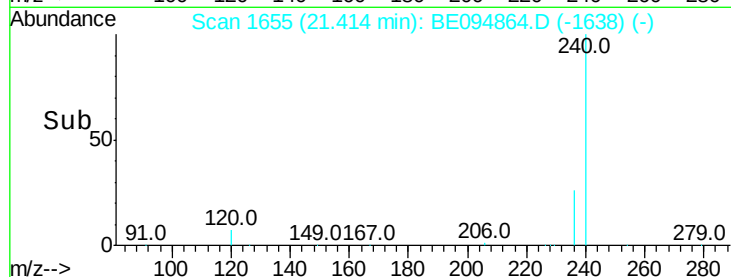
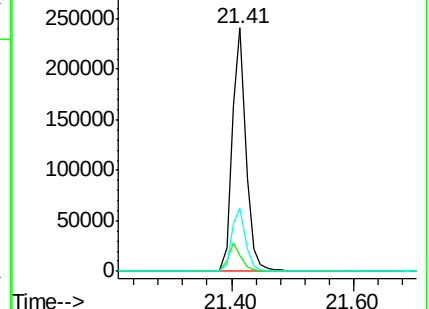
236 26.0 20.7 31.1



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

Pyrene

Concen: 0.082 ng

RT: 19.67 min Scan# 1486

Delta R.T. -0.00 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

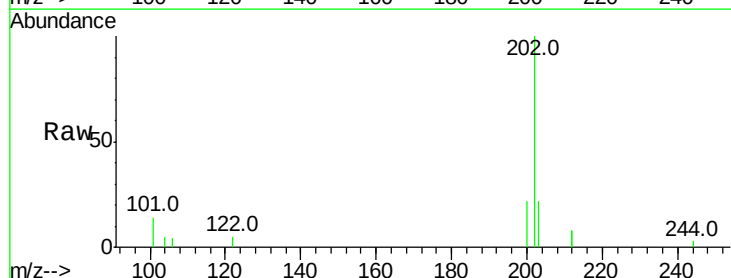
Tgt Ion:202 Resp: 2133

Ion Ratio Lower Upper

202 100

200 20.4 16.6 25.0

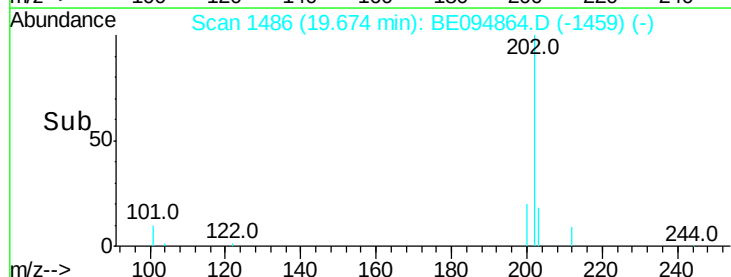
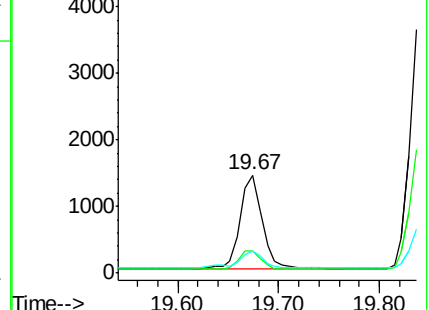
203 20.5 13.8 20.8

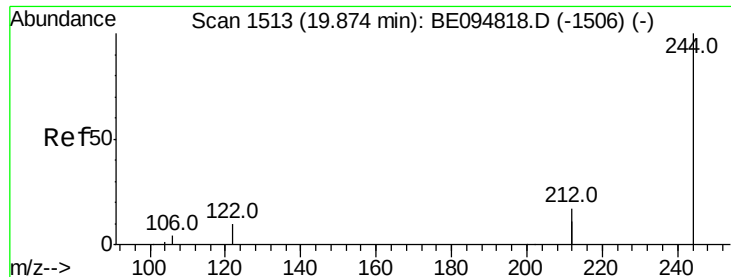


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 94.930 ng

RT: 19.84 min Scan# 1509

Delta R.T. -0.02 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

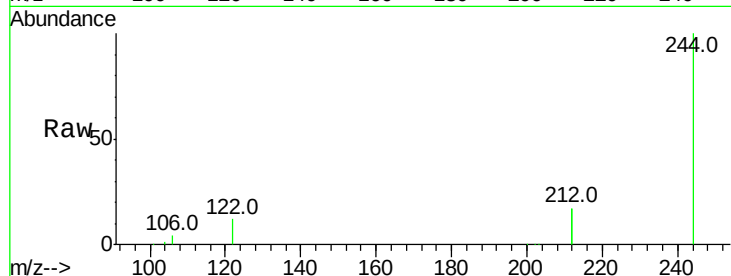
Tot Ion:244 Resp: 1330989

Ion Ratio Lower Upper

244 100

212 33.5 25.4 38.0

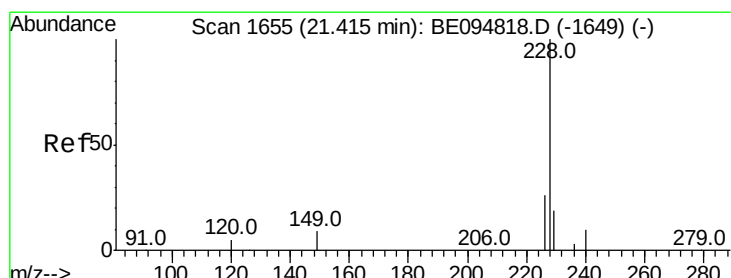
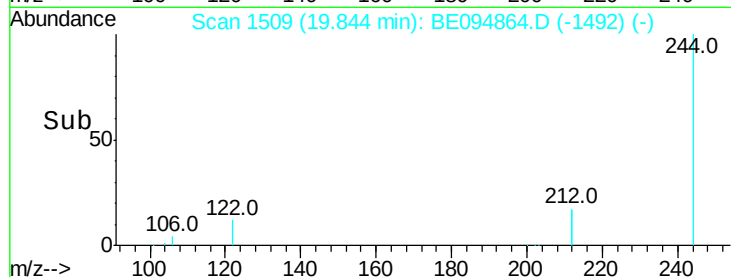
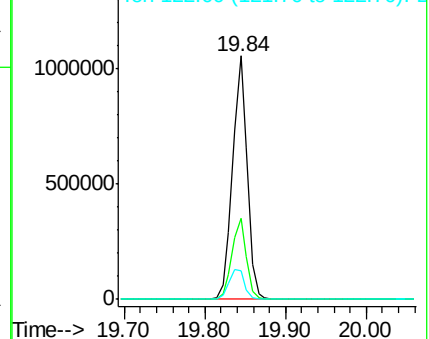
122 11.7 8.1 12.1



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: 0.076 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.00 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

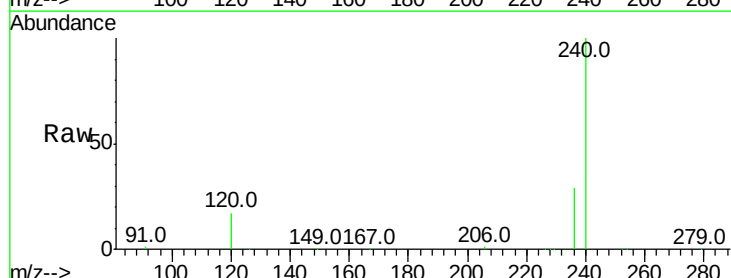
Tgt Ion:228 Resp: 1831

Ion Ratio Lower Upper

228 100

226 20.4 40.0 60.0#

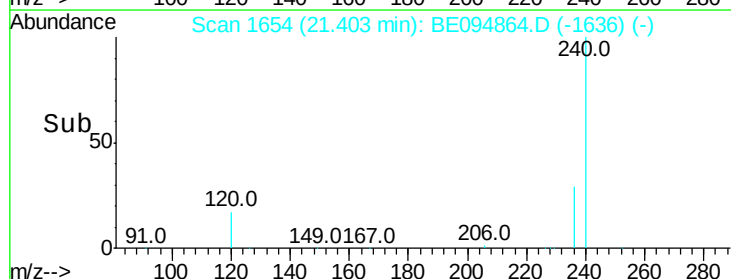
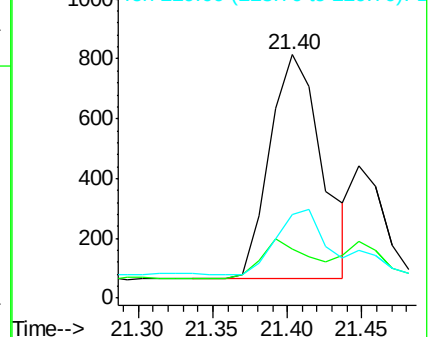
229 34.2 40.0 60.0#

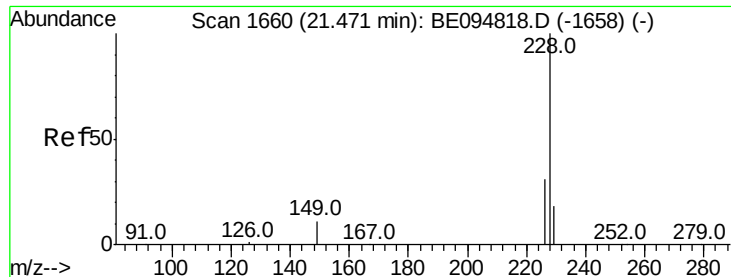


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.075 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.06 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

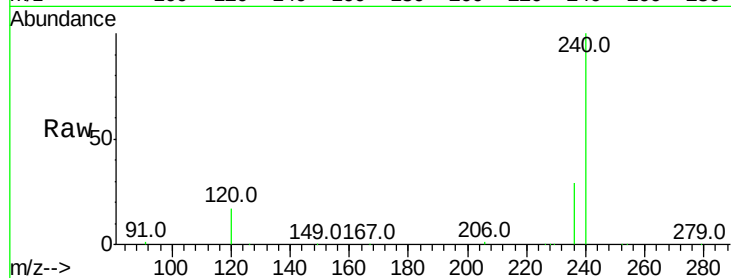
Tot Ion:228 Resp: 1831

Ion Ratio Lower Upper

228 100

226 20.4 40.0 60.0#

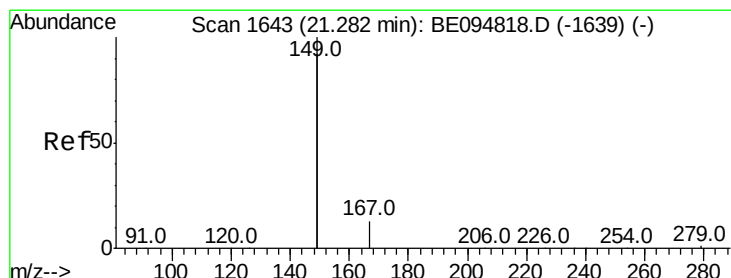
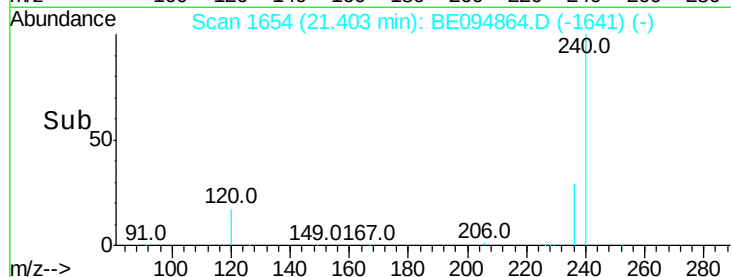
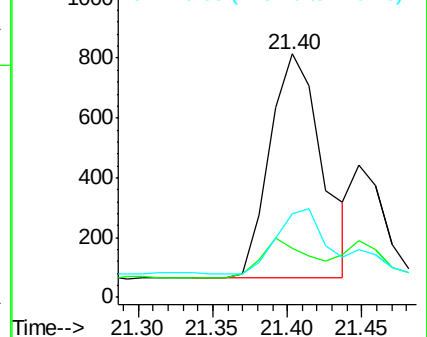
229 34.2 40.0 60.0#



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: 0.080 ng

RT: 21.27 min Scan# 1642

Delta R.T. -0.02 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

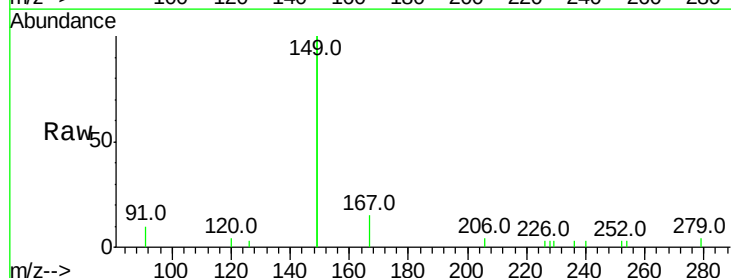
Tgt Ion:149 Resp: 4769

Ion Ratio Lower Upper

149 100

167 6.8 5.4 8.0

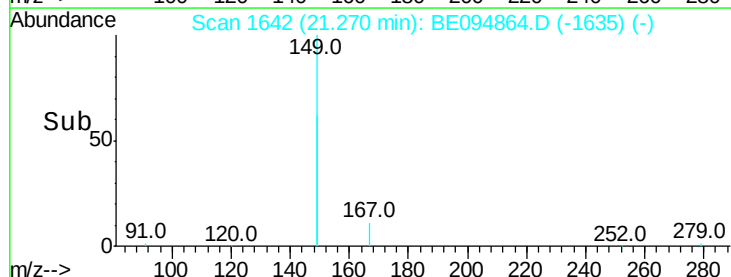
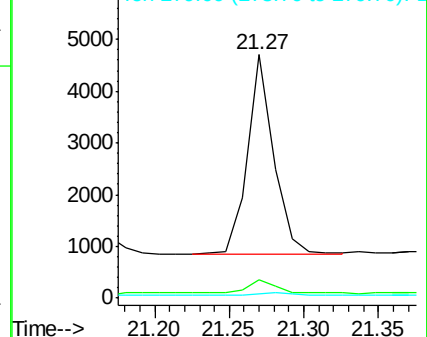
279 1.4 0.7 1.1#

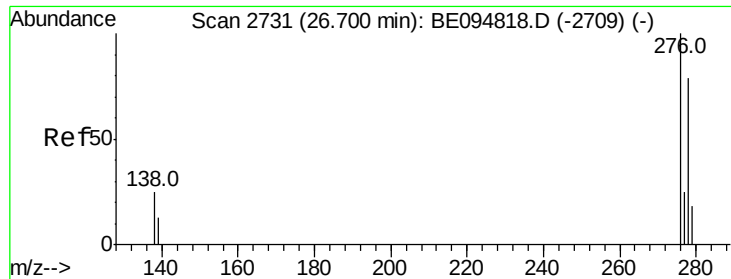


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.021 ng

RT: 26.72 min Scan# 2735

Delta R.T. 0.09 min

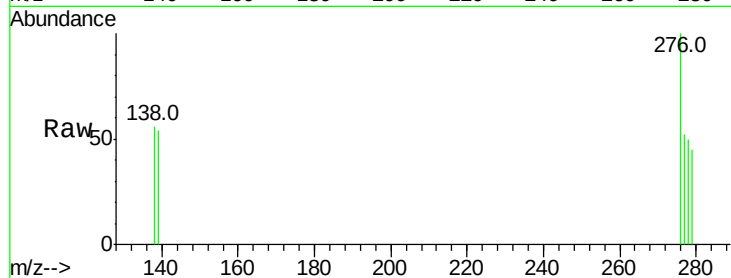
Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :



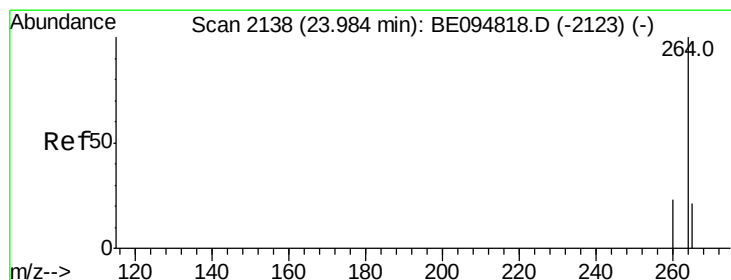
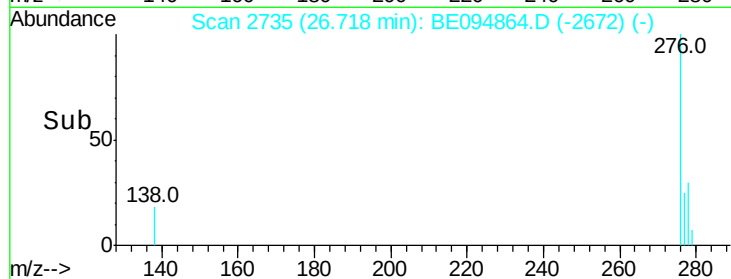
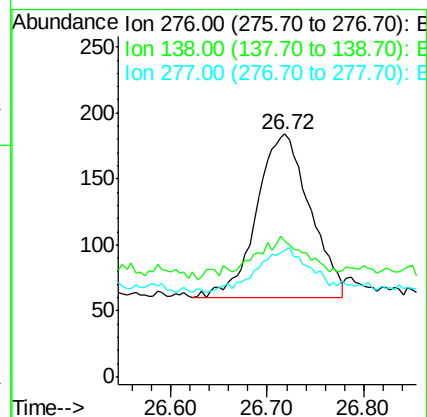
Tot Ion:276 Resp: 477

Ion Ratio Lower Upper

276 100

138 17.4 22.5 33.7#

277 21.4 19.9 29.9



#34

Perylene-d12

Concen: 20.000 ng

RT: 23.94 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

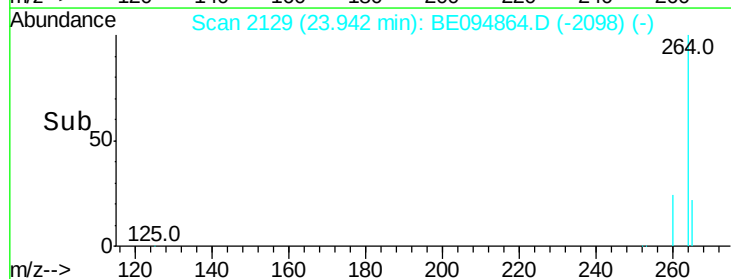
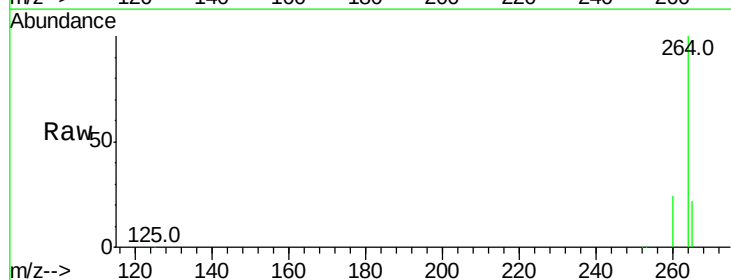
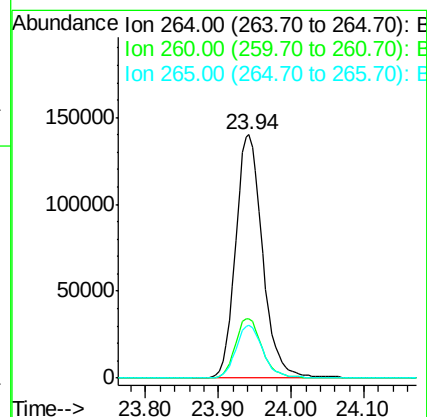
Tgt Ion:264 Resp: 360804

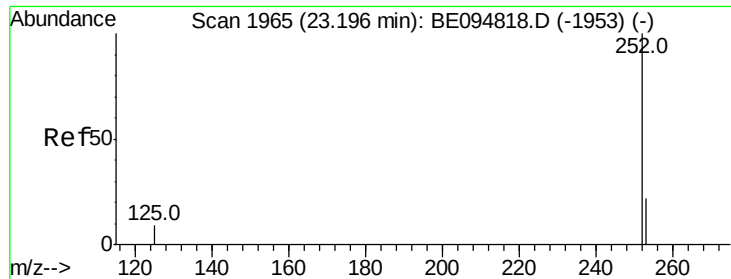
Ion Ratio Lower Upper

264 100

260 24.4 20.5 30.7

265 21.9 22.8 34.2#





#35

Benzo(b)fluoranthene

Concen: 0.038 ng

RT: 23.18 min Scan# 1962

Delta R.T. 0.01 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :

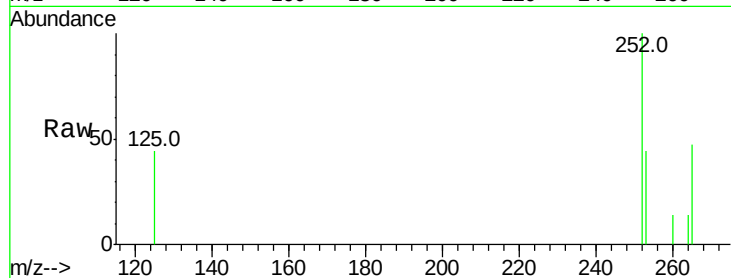
Tot Ion:252 Resp: 881

Ion Ratio Lower Upper

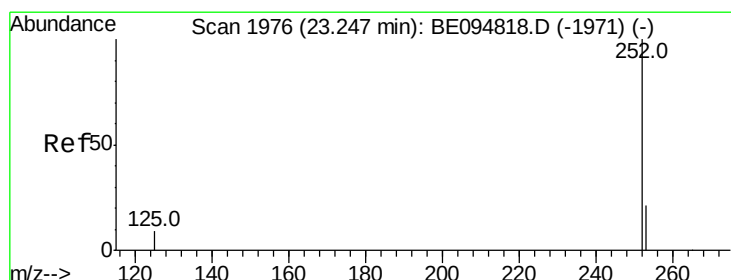
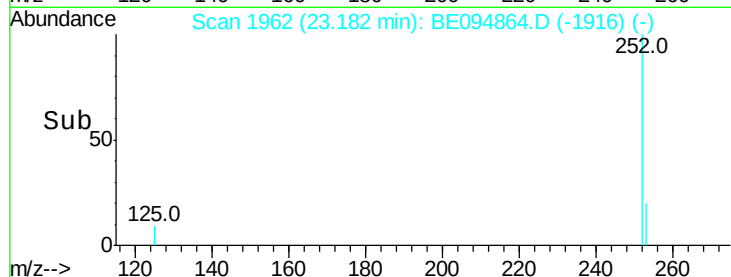
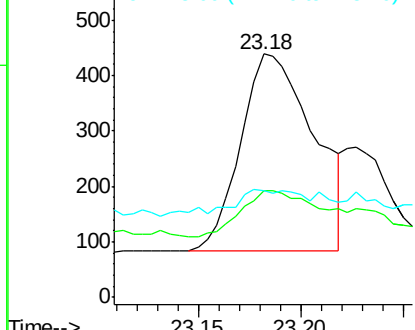
252 100

253 44.0 48.0 72.0#

125 44.0 56.0 84.0#



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



#36

Benzo(k)fluoranthene

Concen: 0.035 ng

RT: 23.18 min Scan# 1962

Delta R.T. -0.04 min

Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

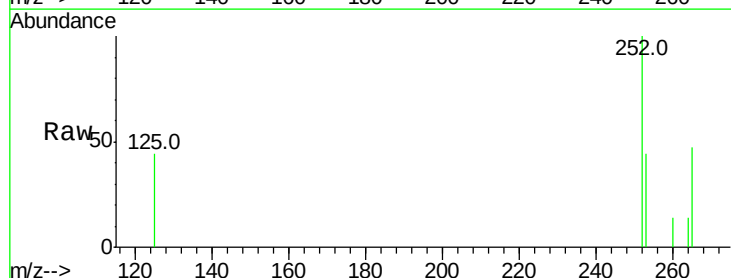
Tgt Ion:252 Resp: 881

Ion Ratio Lower Upper

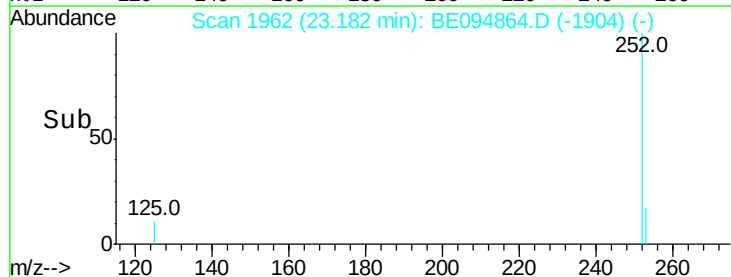
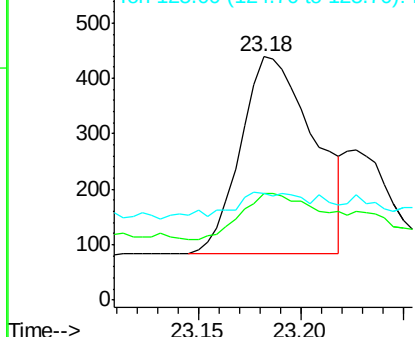
252 100

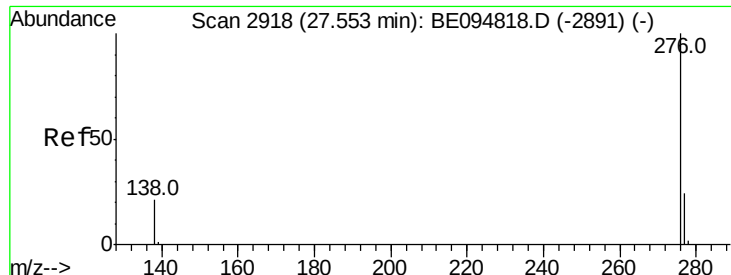
253 44.0 48.0 72.0#

125 44.0 56.0 84.0#



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





#39

Benzo(a,h,i)perylene

Concen: 0.033 ng

RT: 27.56 min Scan# 2919

Delta R.T. 0.09 min

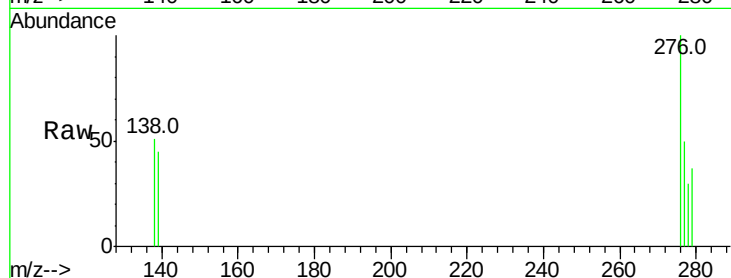
Lab File: BE094864.D

Acq: 27 Nov 2017 10:05

Instrument :

BNA_E

ClientSampleId :



Tot Ion:	276	Resp:	632
Ion	Ratio	Lower	Upper
276	100		
277	49.8	52.0	78.0#
138	51.2	44.0	66.0

