

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092817\
 Data File : BE094138.D
 Acq On : 28 Sep 2017 20:05
 Operator : SJ/JU
 Sample : I5453-11
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TW-2-092517

Quant Time: Sep 29 02:09:29 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 25 17:37:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.90	152	2382	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	11482	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	6833	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	23152	0.40	ng	0.00
27) Chrysene-d12	21.40	240	19008	0.40	ng	0.00
34) Perylene-d12	23.91	264	17737	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.50	112	1098	0.12	ng	0.00
5) Phenol-d6	7.10	99	992	0.08	ng	0.01
8) Nitrobenzene-d5	9.06	82	2934	0.26	ng	0.00
11) 2-Methylnaphthalene-d10	12.27	152	5414	0.31	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	960	0.23	ng	0.00
15) 2-Fluorobiphenyl	13.13	172	7790	0.35	ng	0.00
25) Fluoranthene-d10	19.27	212	64237	0.29	ng	0.00
29) Terphenyl-d14	19.85	244	10399	0.30	ng	0.00

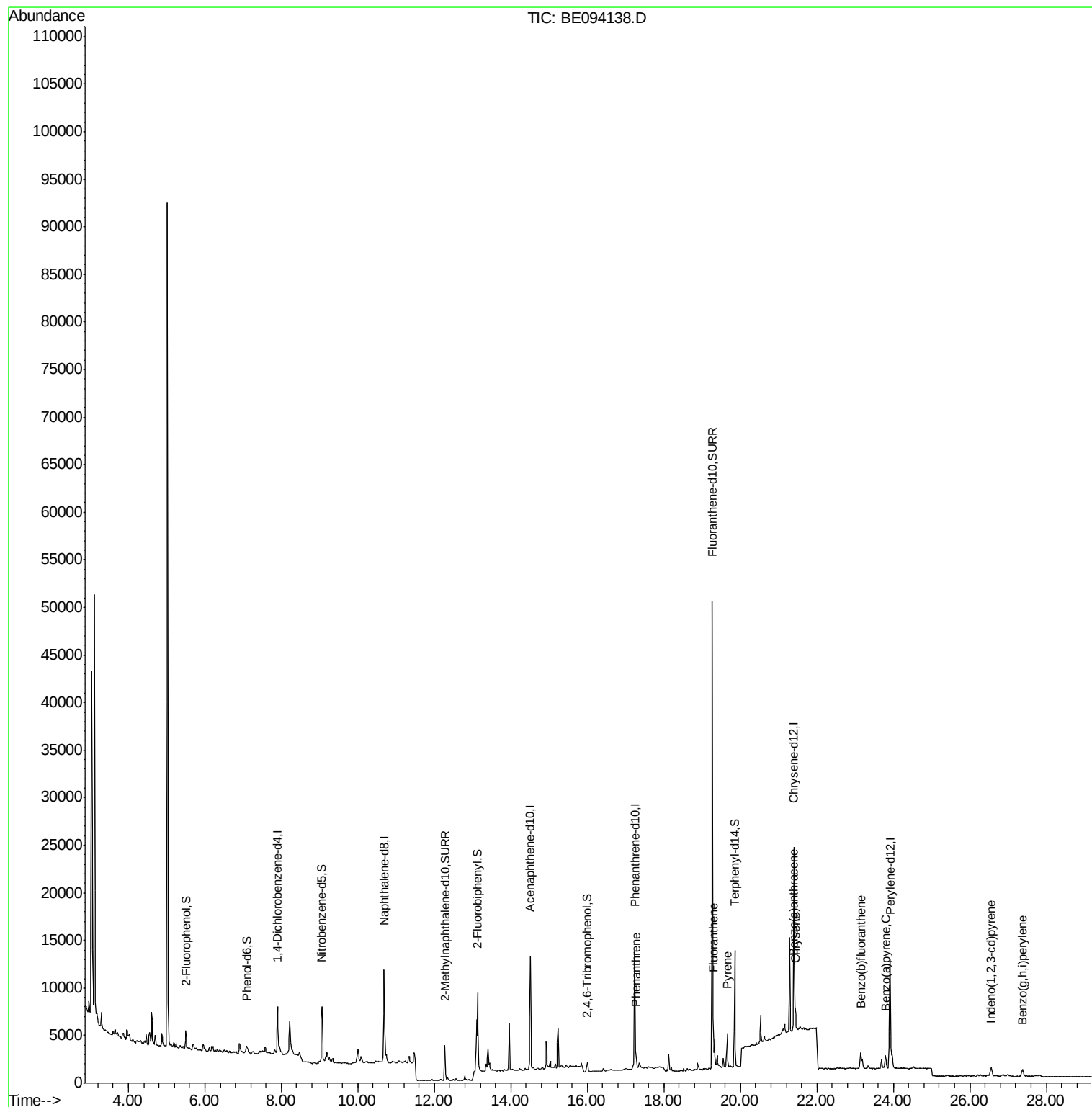
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
23) Phenanthrene	17.27	178	2761	0.047	ng	# 91
26) Fluoranthene	19.30	202	3442	0.052	ng	# 86
28) Pyrene	19.66	202	3451	0.057	ng	# 92
30) Benzo(a)anthracene	21.38	228	2240	0.035	ng	# 80
31) Chrysene	21.44	228	2180	0.035	ng	# 82
33) Indeno(1,2,3-cd)pyrene	26.55	276	1667	0.025	ng	# 95
35) Benzo(b)fluoranthene	23.14	252	3025	0.047	ng	# 61
37) Benzo(a)pyrene	23.80	252	2174	0.038	ng	# 51
39) Benzo(g,h,i)perylene	27.37	276	1713	0.032	ng	# 70

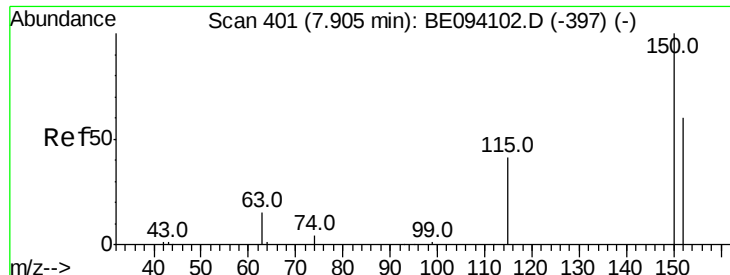
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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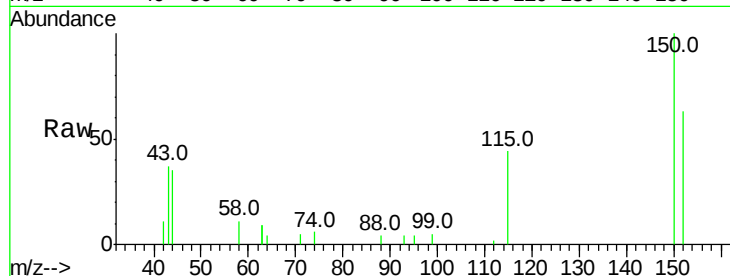


#1

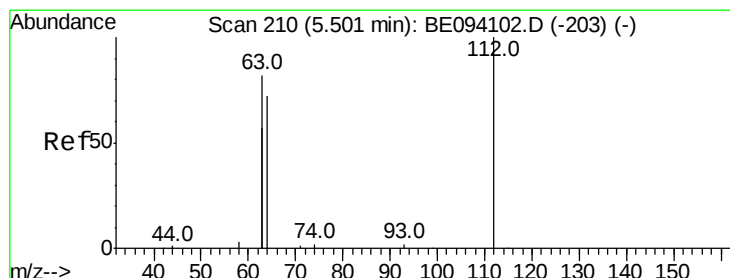
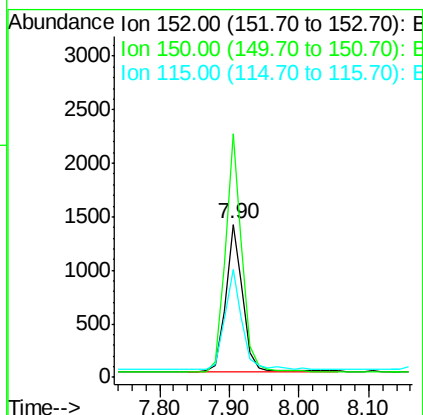
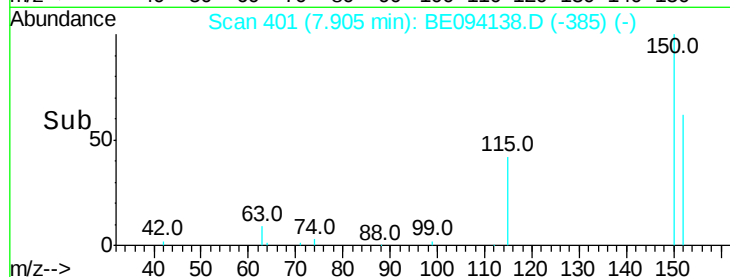
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.90 min Scan# 401
 Delta R.T. -0.00 min
 Lab File: BE094138.D
 Acq: 28 Sep 2017 20:05

Instrument :
 BNA_E
 ClientSampleId :
 TW-2-092517

Tot Ion:152 Resp: 2382
 Ion Ratio Lower Upper
 152 100
 150 159.0 117.2 175.8
 115 70.7 57.0 85.6



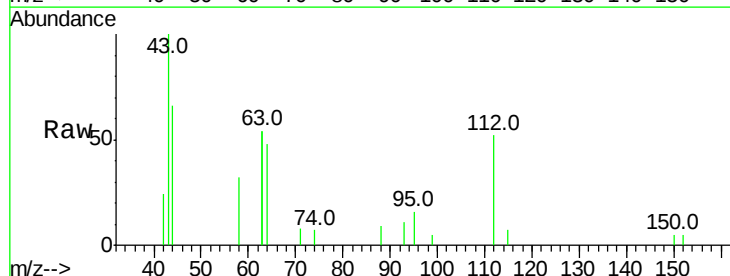
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



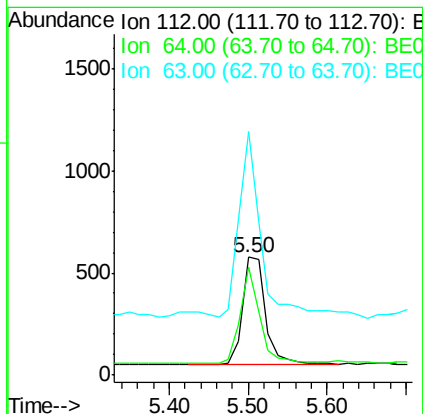
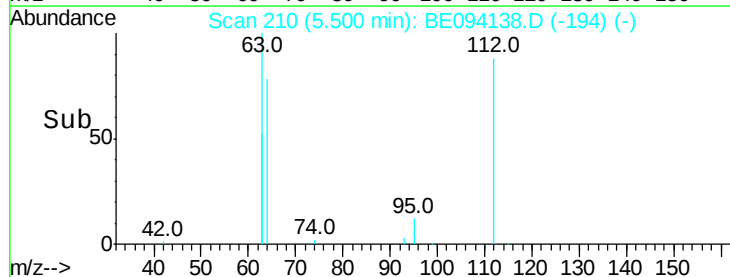
#4

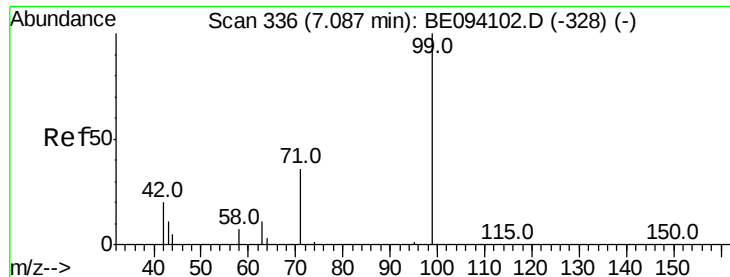
2-Fluorophenol
 Concen: 0.122 ng
 RT: 5.50 min Scan# 210
 Delta R.T. -0.00 min
 Lab File: BE094138.D
 Acq: 28 Sep 2017 20:05

Tgt Ion:112 Resp: 1098
 Ion Ratio Lower Upper
 112 100
 64 70.5 60.1 90.1
 63 164.6 116.8 175.2



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: 0.079 ng

RT: 7.10 min Scan# 337

Delta R.T. 0.01 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

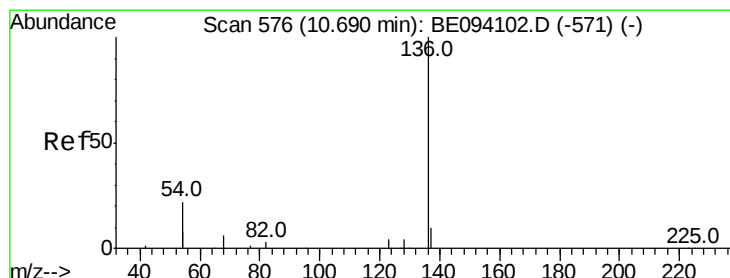
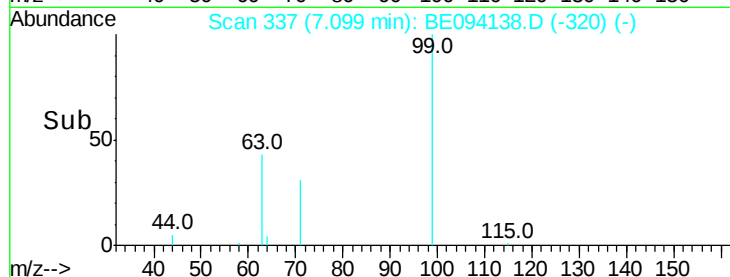
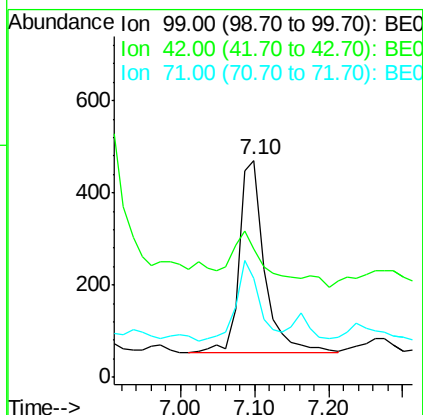
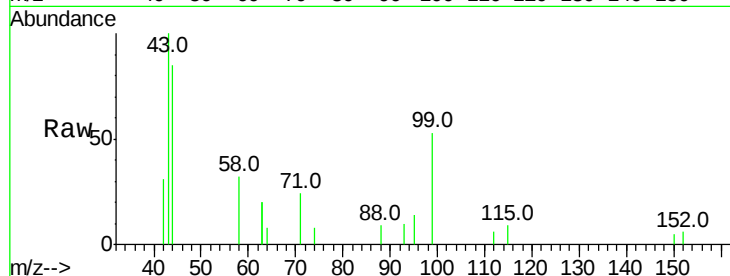
BNA_E

ClientSampleId :

TW-2-092517

Tot Ion: 99 Resp: 992

Ion	Ratio	Lower	Upper
99	100		
42	40.3	20.2	30.2#
71	38.8	28.4	42.6



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.69 min Scan# 576

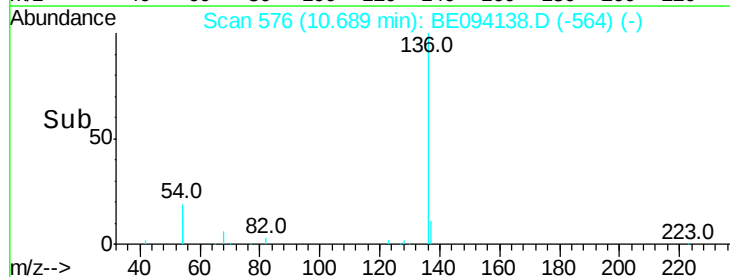
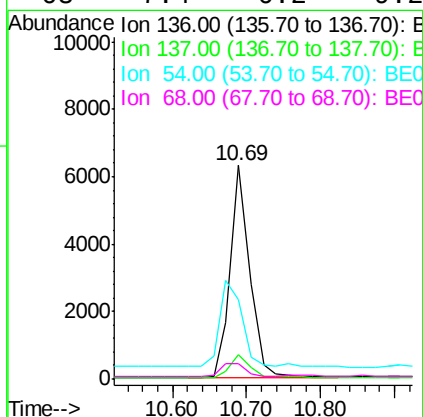
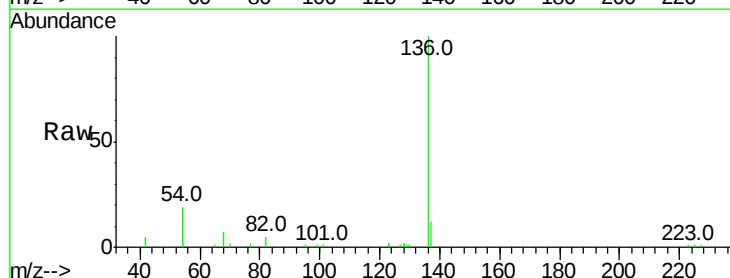
Delta R.T. -0.00 min

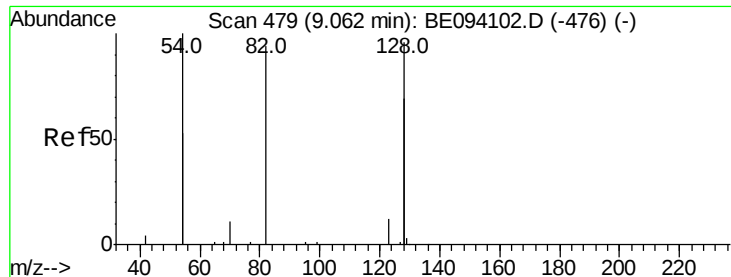
Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Tgt Ion: 136 Resp: 11482

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.5	14.3
54	37.4	29.1	43.7
68	7.4	6.2	9.2





#8

Nitrobenzene-d5

Concen: 0.264 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

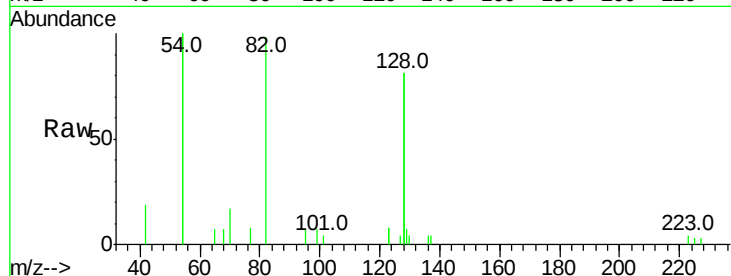
Tot Ion: 82 Resp: 2934

Ion Ratio Lower Upper

82 100

128 165.7 150.0 225.0

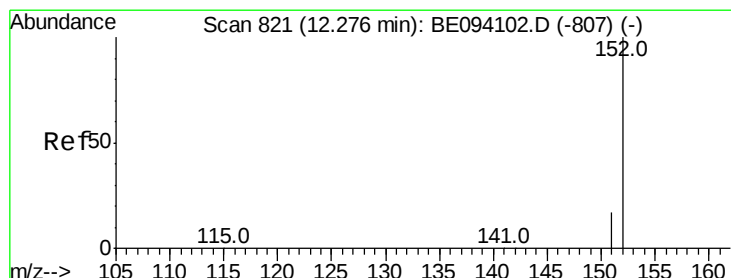
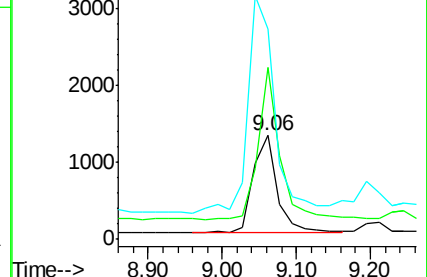
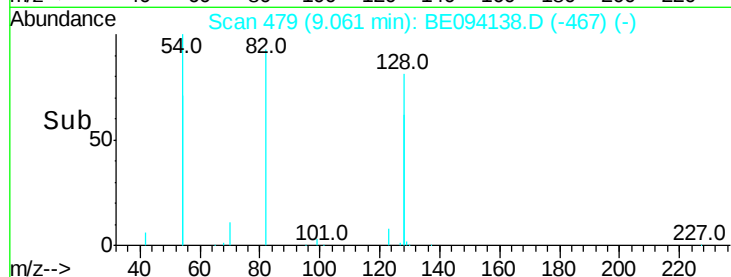
54 203.3 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.306 ng

RT: 12.27 min Scan# 820

Delta R.T. -0.00 min

Lab File: BE094138.D

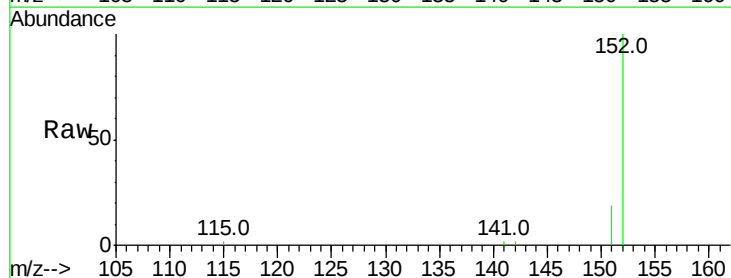
Acq: 28 Sep 2017 20:05

Tgt Ion: 152 Resp: 5414

Ion Ratio Lower Upper

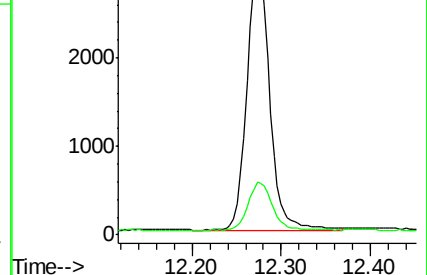
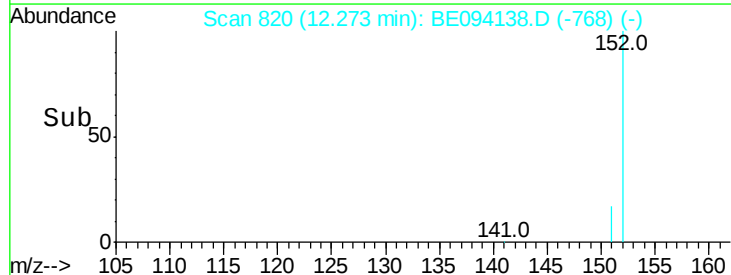
152 100

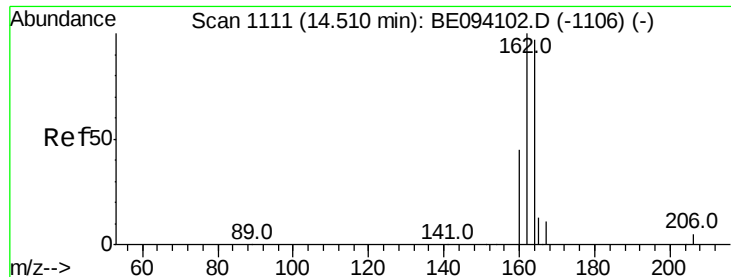
151 19.3 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.51 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

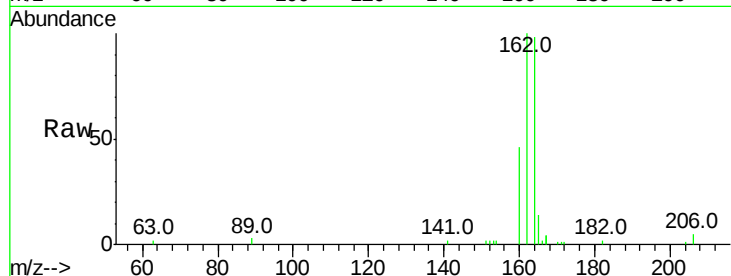
Tot Ion:164 Resp: 6833

Ion Ratio Lower Upper

164 100

162 102.1 83.1 124.7

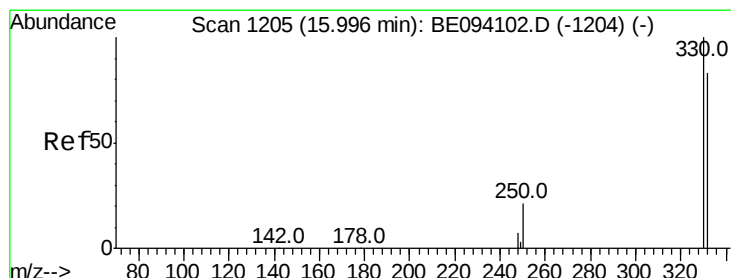
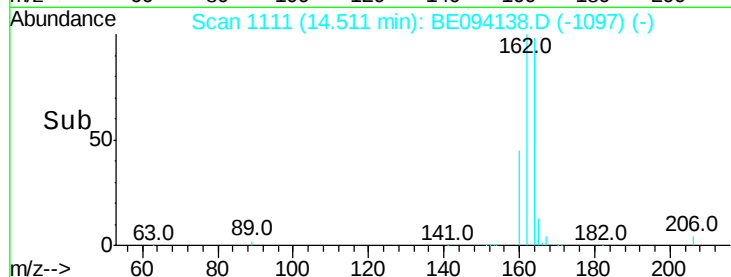
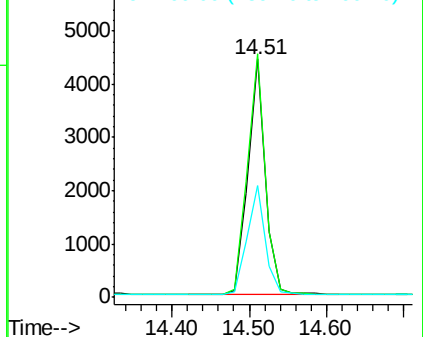
160 47.1 37.1 55.7



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: 0.228 ng

RT: 16.00 min Scan# 1205

Delta R.T. 0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

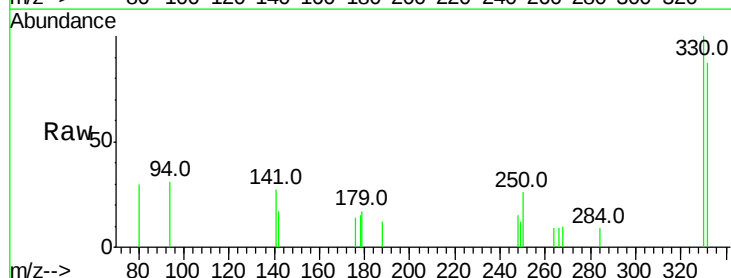
Tgt Ion:330 Resp: 960

Ion Ratio Lower Upper

330 100

332 89.5 152.7 229.1#

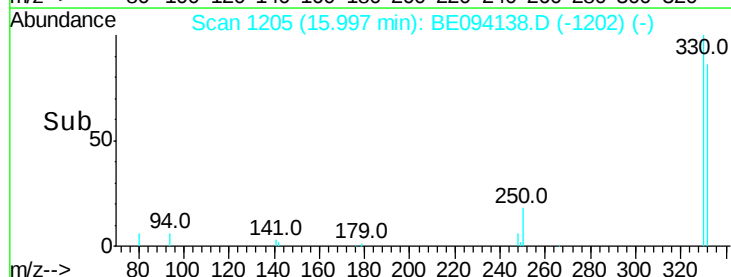
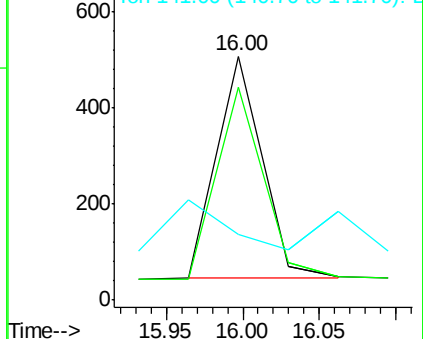
141 0.0 33.7 50.5#

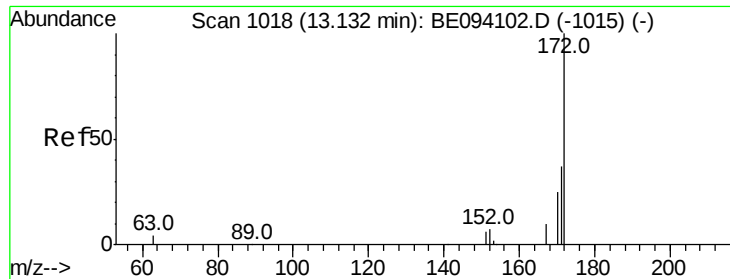


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

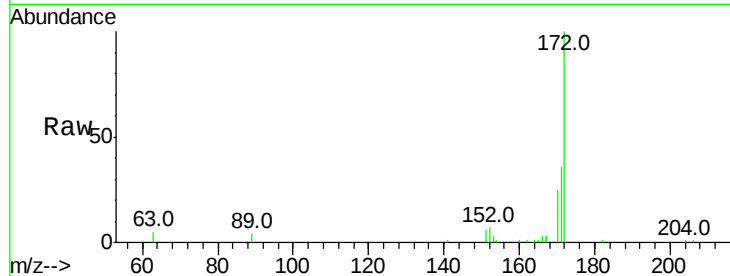




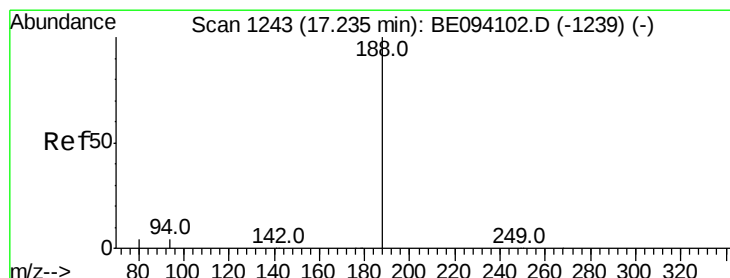
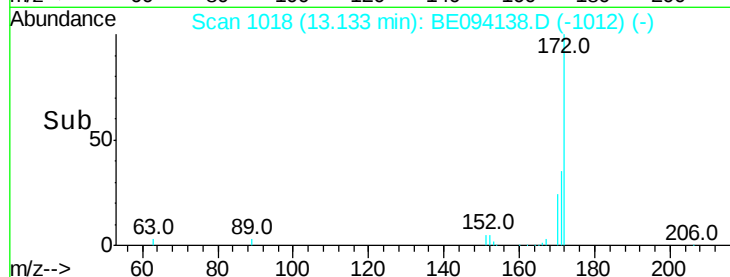
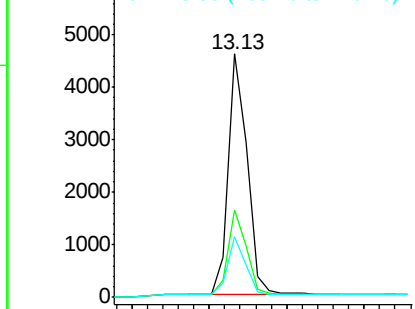
#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 13.13 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BE094138.D
Acq: 28 Sep 2017 20:05

Instrument :
BNA_E
ClientSampleId :
TW-2-092517

Tot Ion:172 Resp: 7790
Ion Ratio Lower Upper
172 100
171 36.2 29.9 44.9
170 24.9 21.8 32.8

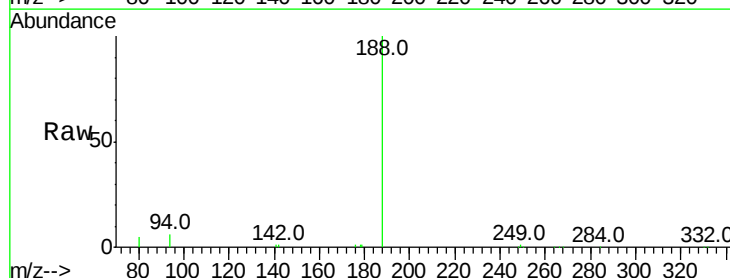


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

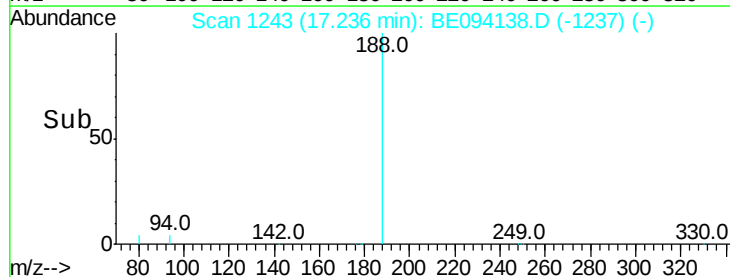
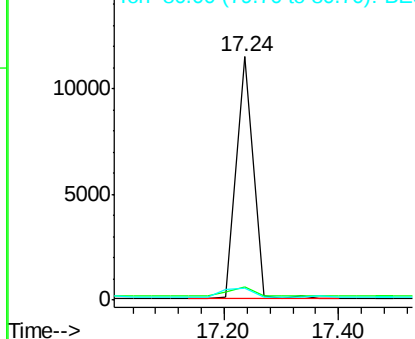


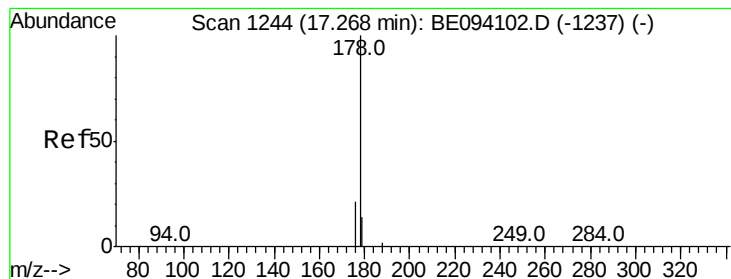
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1243
Delta R.T. 0.00 min
Lab File: BE094138.D
Acq: 28 Sep 2017 20:05

Tgt Ion:188 Resp: 23152
Ion Ratio Lower Upper
188 100
94 5.5 3.9 5.9
80 5.0 3.6 5.4



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





#23

Phenanthrene

Concen: 0.047 ng

RT: 17.27 min Scan# 1244

Delta R.T. 0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

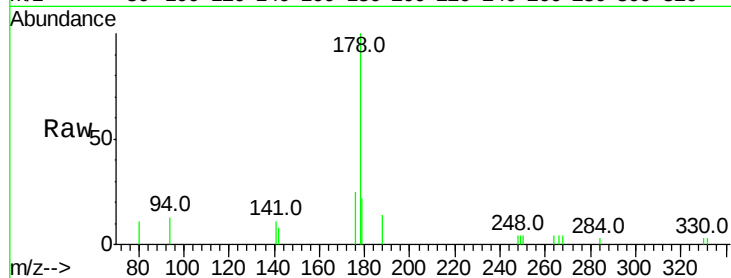
Tot Ion:178 Resp: 2761

Ion Ratio Lower Upper

178 100

176 21.8 15.1 22.7

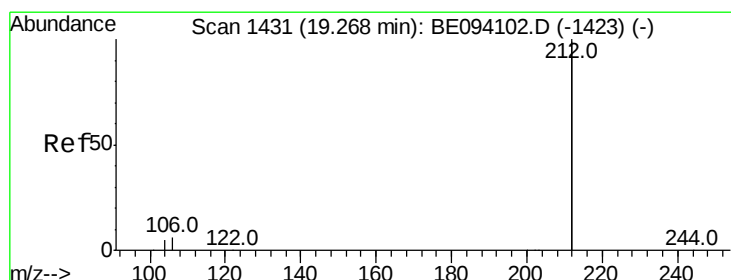
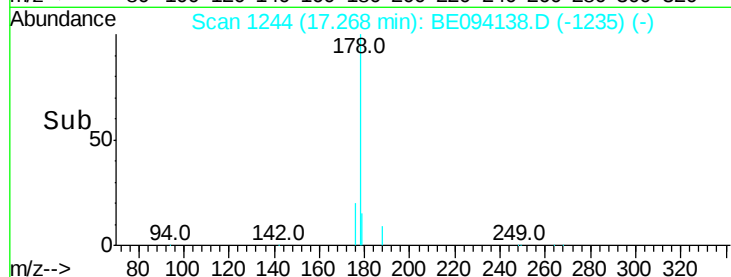
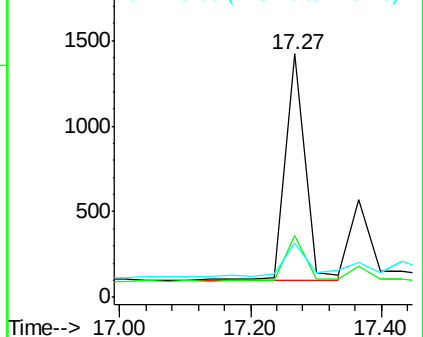
179 19.9 11.8 17.6#



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



#25

Fluoranthene-d10

Concen: 0.287 ng

RT: 19.27 min Scan# 1431

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

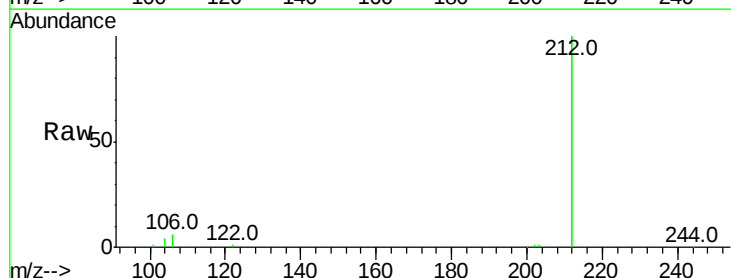
Tgt Ion:212 Resp: 64237

Ion Ratio Lower Upper

212 100

106 3.5 2.8 4.2

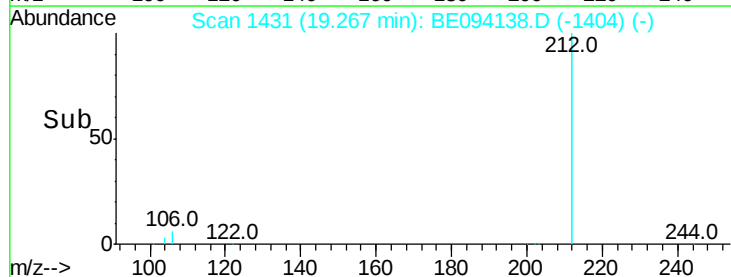
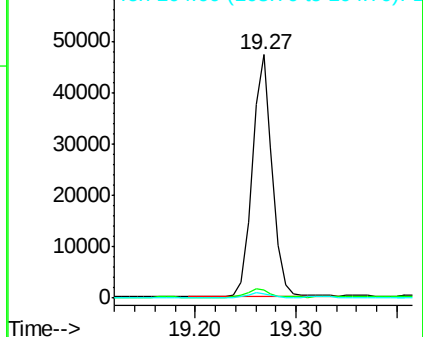
104 2.0 1.6 2.4

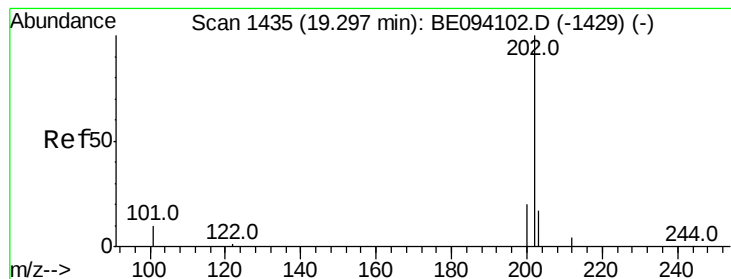


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.052 ng

RT: 19.30 min Scan# 1435

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

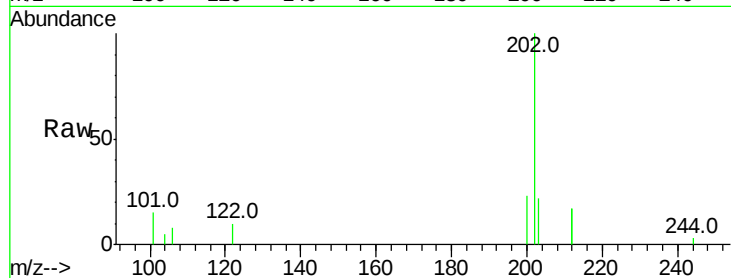
Tot Ion:202 Resp: 3442

Ion Ratio Lower Upper

202 100

101 0.0 9.8 14.8#

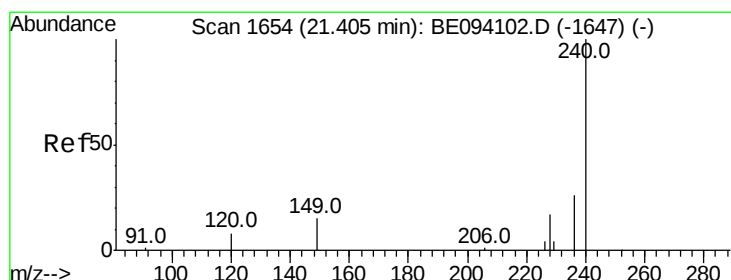
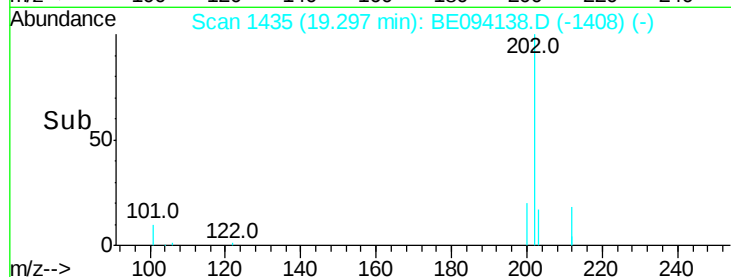
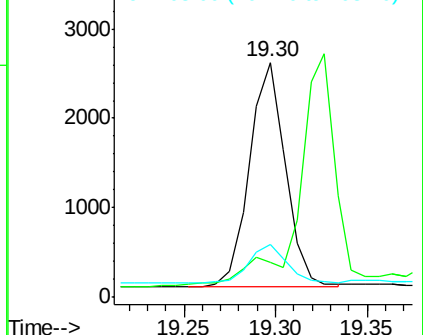
203 18.0 13.7 20.5



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: 21.40 min Scan# 1654

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

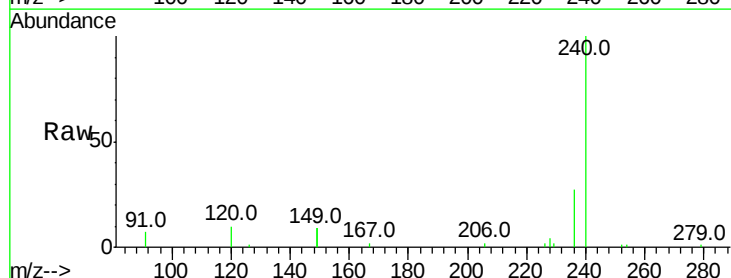
Tgt Ion:240 Resp: 19008

Ion Ratio Lower Upper

240 100

120 10.2 5.5 8.3#

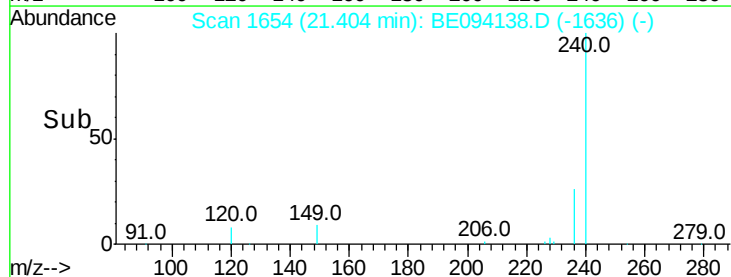
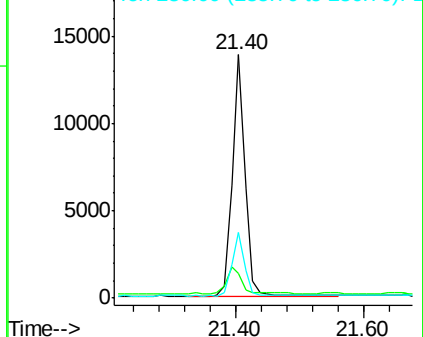
236 26.8 20.7 31.1

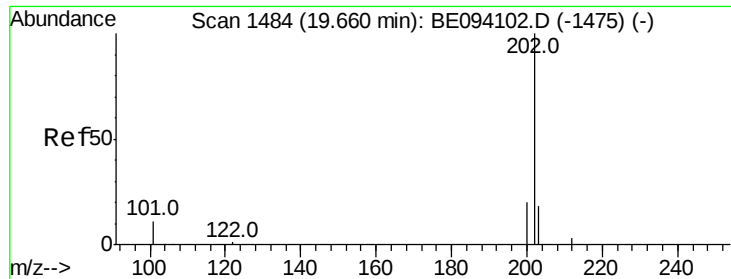


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

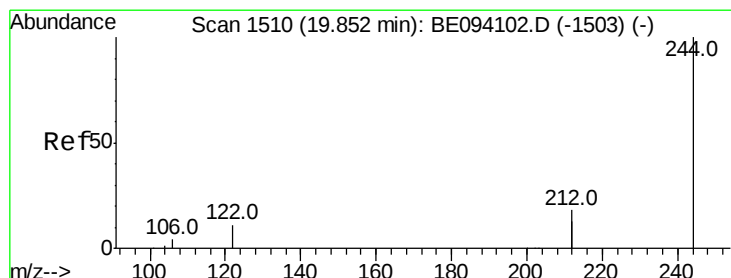
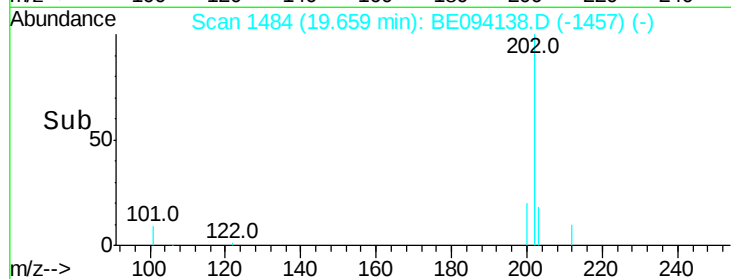
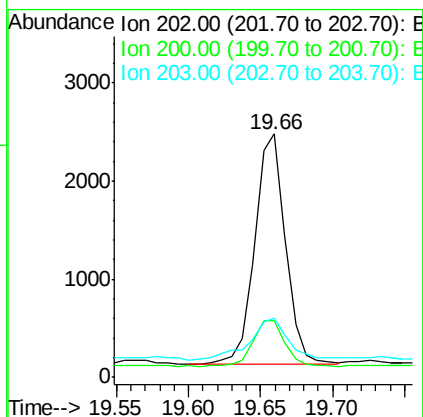
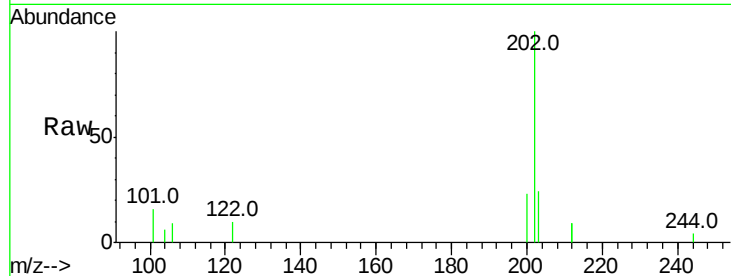




#28
Pvrene
Concen: 0.057 ng
RT: 19.66 min Scan# 1484
Delta R.T. -0.00 min
Lab File: BE094138.D
Acq: 28 Sep 2017 20:05

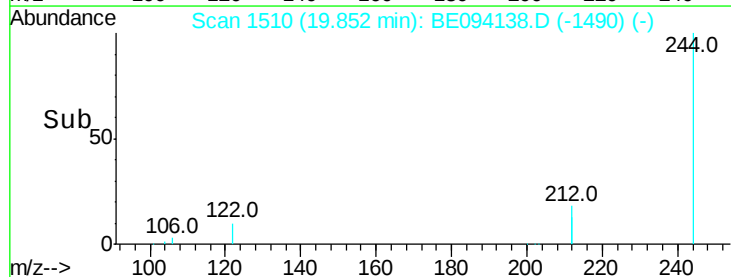
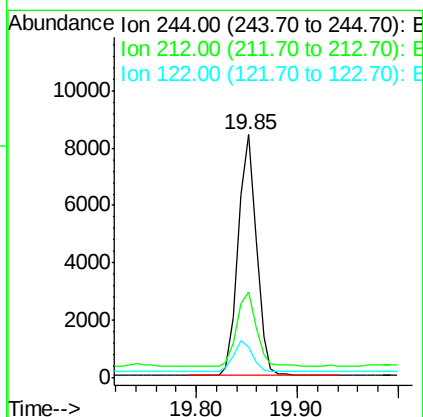
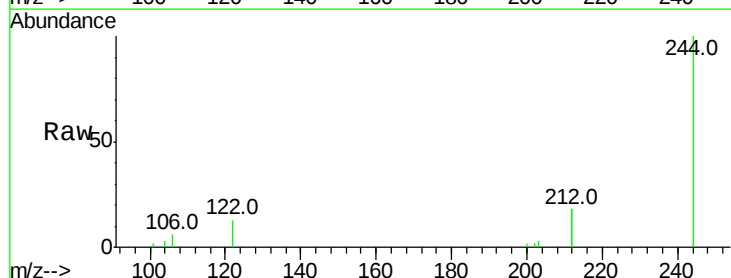
Instrument :
BNA_E
ClientSampleId :
TW-2-092517

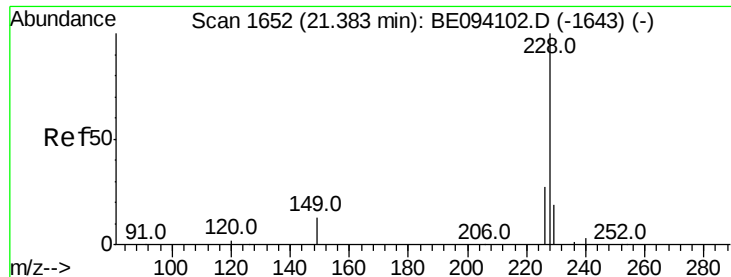
Tot Ion:202 Resp: 3451
Ion Ratio Lower Upper
202 100
200 21.8 16.6 25.0
203 23.9 13.8 20.8#



#29
Terphenyl-d14
Concen: 0.300 ng
RT: 19.85 min Scan# 1510
Delta R.T. -0.00 min
Lab File: BE094138.D
Acq: 28 Sep 2017 20:05

Tgt Ion:244 Resp: 10399
Ion Ratio Lower Upper
244 100
212 35.6 25.4 38.0
122 12.7 8.1 12.1#





#30

Benzo(a)anthracene

Concen: 0.035 ng

RT: 21.38 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

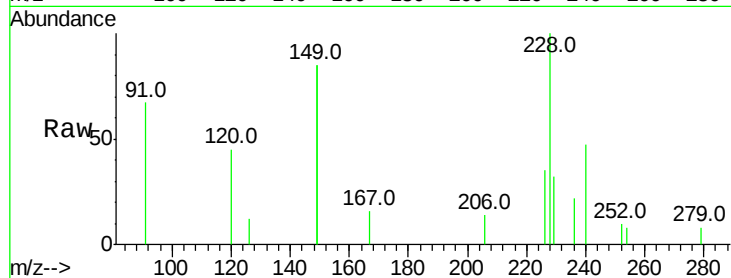
Tot Ion:228 Resp: 2240

Ion Ratio Lower Upper

228 100

226 35.1 21.4 32.0#

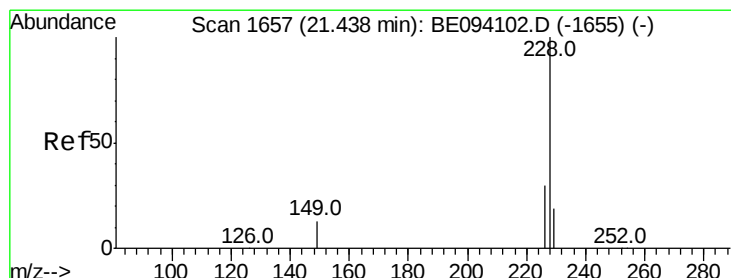
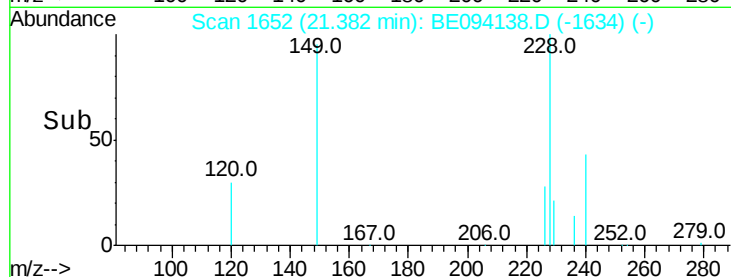
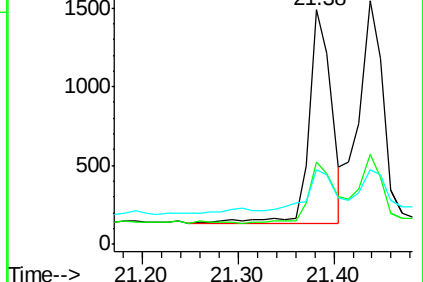
229 32.0 16.4 24.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.035 ng

RT: 21.44 min Scan# 1657

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

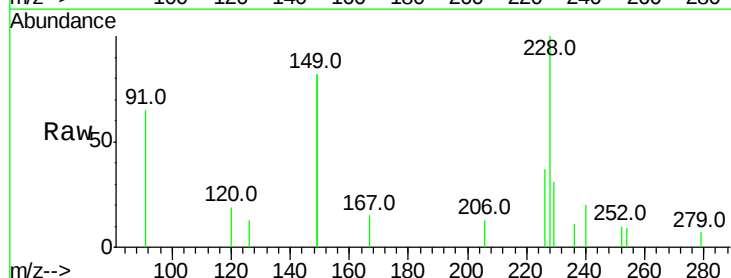
Tgt Ion:228 Resp: 2180

Ion Ratio Lower Upper

228 100

226 37.2 23.6 35.4#

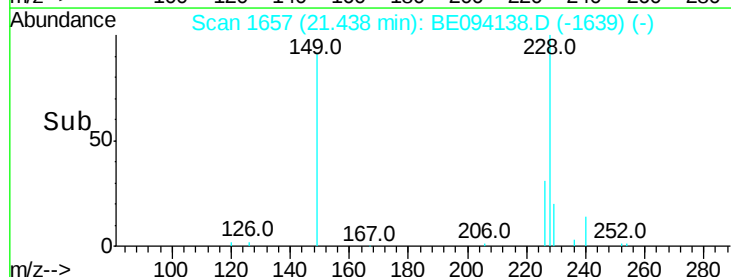
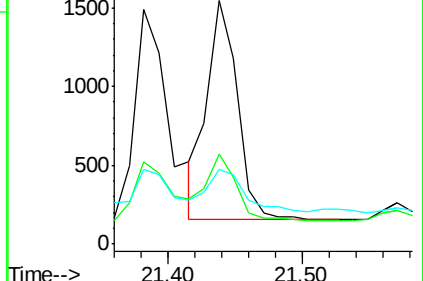
229 30.9 16.4 24.6#

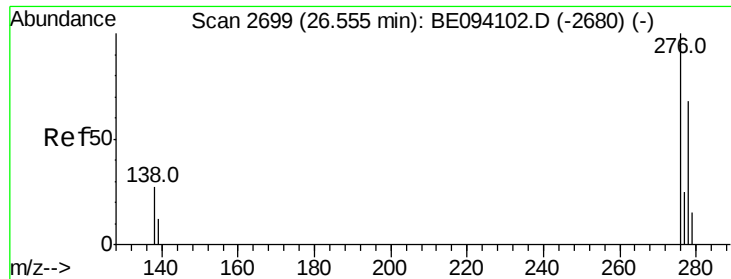


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.025 ng

RT: 26.55 min Scan# 2698

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

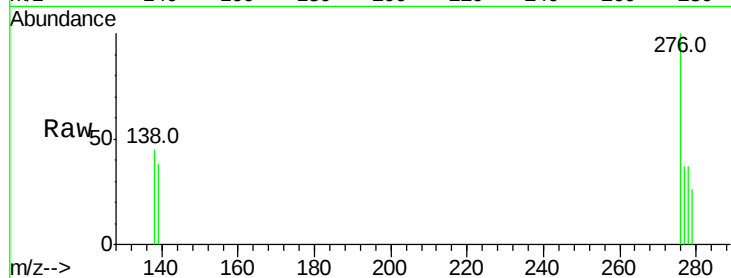
Tot Ion:276 Resp: 1667

Ion Ratio Lower Upper

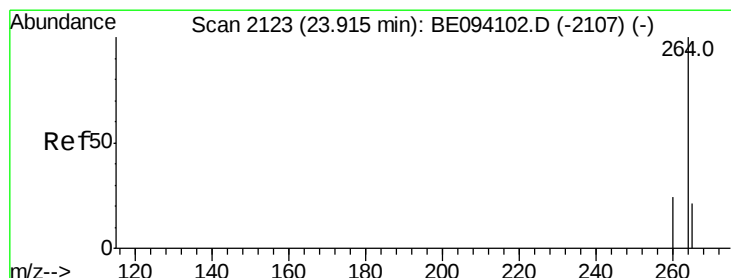
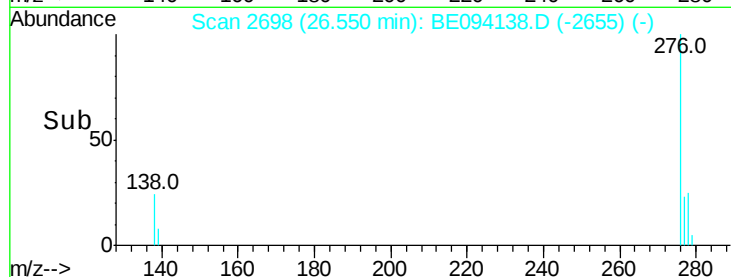
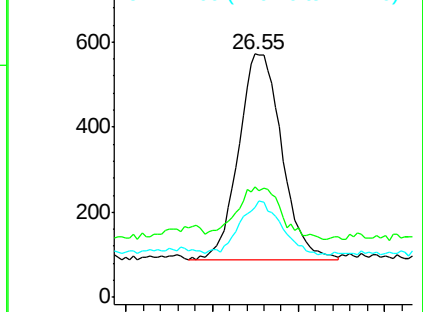
276 100

138 23.3 22.5 33.7

277 24.6 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.91 min Scan# 2122

Delta R.T. -0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

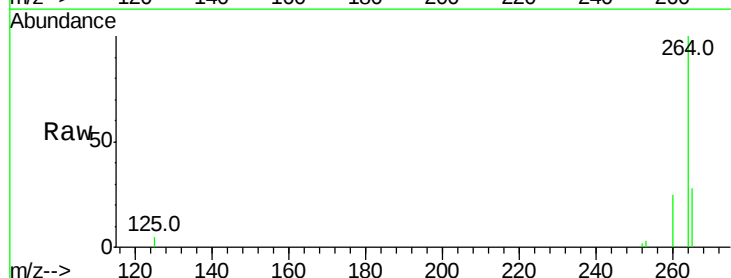
Tgt Ion:264 Resp: 17737

Ion Ratio Lower Upper

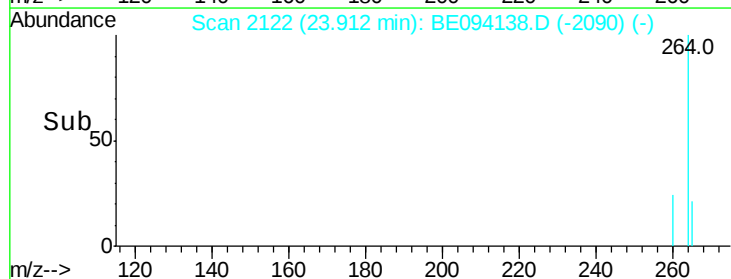
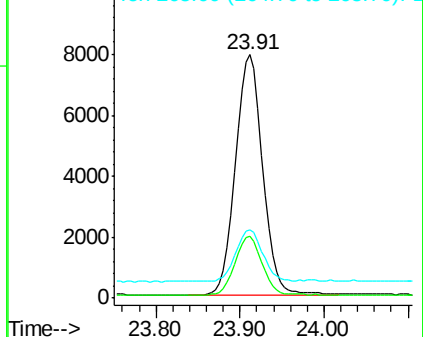
264 100

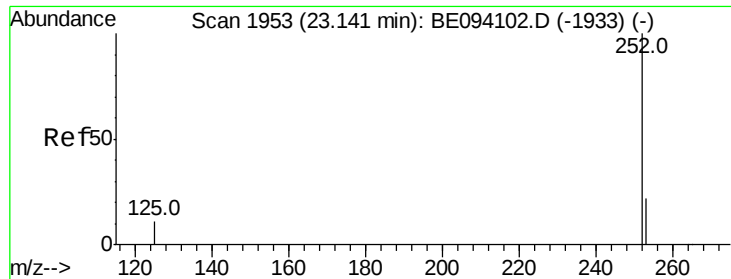
260 25.2 20.5 30.7

265 27.8 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: 0.047 ng

RT: 23.14 min Scan# 1953

Delta R.T. 0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

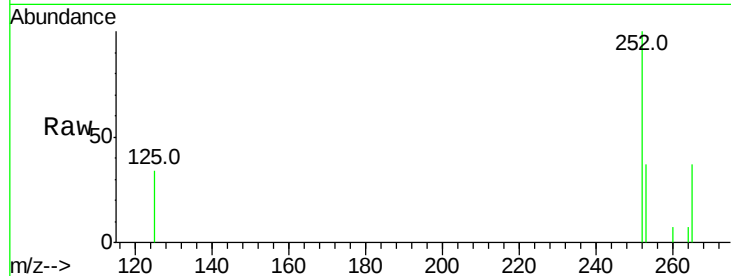
Tot Ion:252 Resp: 3025

Ion Ratio Lower Upper

252 100

253 37.4 18.2 27.2#

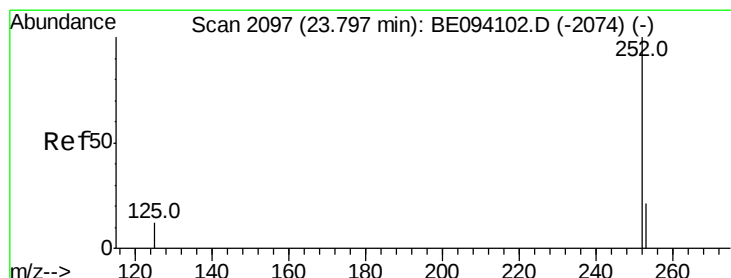
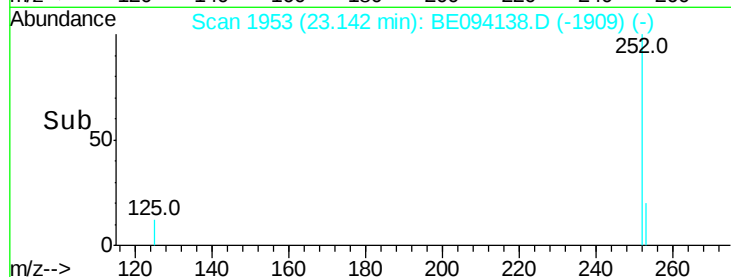
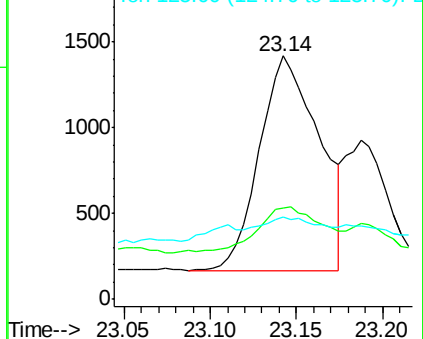
125 34.0 10.1 15.1#



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



#37

Benzo(a)pyrene

Concen: 0.038 ng

RT: 23.80 min Scan# 2097

Delta R.T. 0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

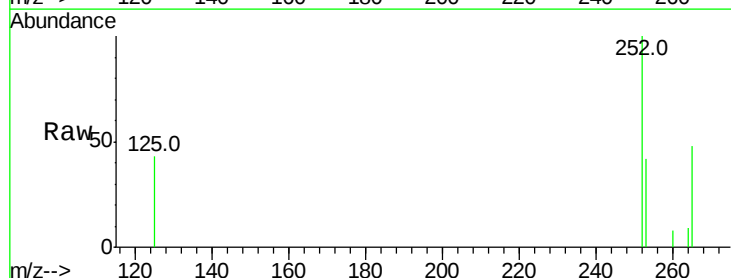
Tgt Ion:252 Resp: 2174

Ion Ratio Lower Upper

252 100

253 41.9 19.0 28.6#

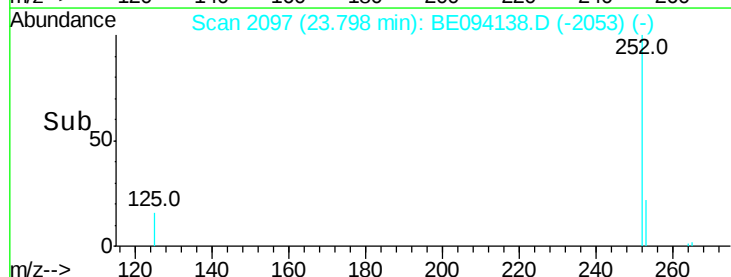
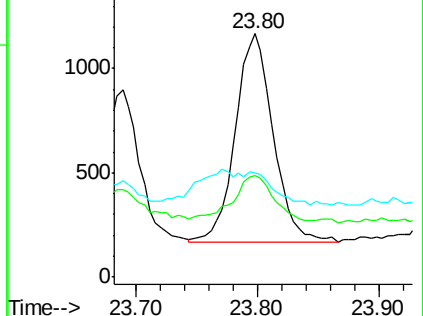
125 42.8 11.8 17.8#

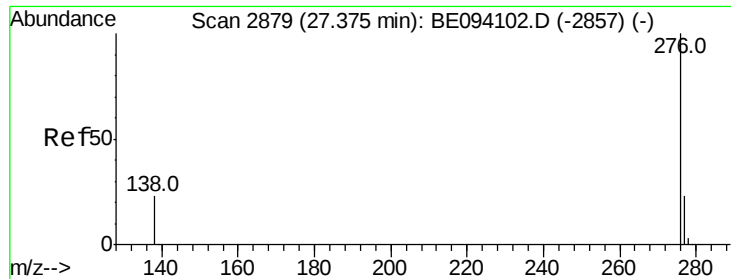


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.032 ng

RT: 27.37 min Scan# 2879

Delta R.T. 0.00 min

Lab File: BE094138.D

Acq: 28 Sep 2017 20:05

Instrument :

BNA_E

ClientSampleId :

TW-2-092517

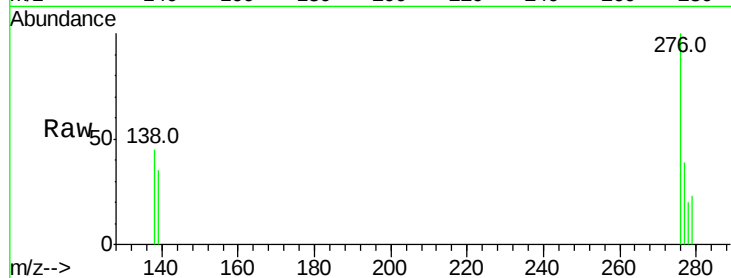
Tot Ion:276 Resp: 1713

Ion Ratio Lower Upper

276 100

277 38.5 20.8 31.2#

138 44.8 21.5 32.3#



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

