

Data File : BE093396.D
Acq On : 1 Jul 2017 17:18
Operator : SJ/JU
Sample : I3984-02MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MH-117N-20170627MS

Quant Time: Jul 03 05:11:30 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 01 15:43:24 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.95	152	3310	0.40	ng	0.00
7) Naphthalene-d8	10.74	136	14859	0.40	ng	0.00
13) Acenaphthene-d10	14.54	164	7717	0.40	ng	-0.02
19) Phenanthrene-d10	17.27	188	24951	0.40	ng	0.00
27) Chrysene-d12	21.43	240	35865	0.40	ng	-0.01
34) Perylene-d12	23.94	264	29701	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.53	112	1882	0.18	ng	0.00
5) Phenol-d6	7.10	99	1681	0.11	ng	0.00
8) Nitrobenzene-d5	9.08	82	3696	0.42	ng	-0.02
11) 2-Methylnaphthalene-d10	12.31	152	7429	0.31	ng	0.00
14) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
15) 2-Fluorobiphenyl	13.18	172	25338	0.84	ng	0.00
25) Fluoranthene-d10	19.29	212	101376	0.44	ng	0.00
29) Terphenyl-d14	19.88	244	27140	0.41	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.45	88	1135	0.17	ng	# 47
3) n-Nitrosodimethylamine	3.77	42	706	0.26	ng	# 79
6) bis(2-Chloroethyl)ether	7.37	93	4064	0.37	ng	# 98
9) Naphthalene	10.77	128	68361	0.44	ng	# 73
10) Hexachlorobutadiene	11.08	225	2305	0.37	ng	99
12) 2-Methylnaphthalene	12.39	142	10405	0.40	ng	97
16) Acenaphthylene	14.26	152	12611	0.38	ng	# 87
17) Acenaphthene	14.60	154	9514	0.40	ng	96
18) Fluorene	15.59	166	12891	0.40	ng	# 88
20) 4-Bromophenyl-phenylether	16.45	248	4482	0.73	ng	# 38
21) Hexachlorobenzene	16.58	284	5292	0.55	ng	# 100
22) Pentachlorophenol	16.91	266	1827	1.49	ng	# 73
23) Phenanthrene	17.30	178	31527	0.52	ng	99
24) Anthracene	17.40	178	21227	0.35	ng	94
26) Fluoranthene	19.32	202	30292	0.46	ng	100
28) Pyrene	19.68	202	31863	0.34	ng	# 98
30) Benzo(a)anthracene	21.40	228	38620	0.40	ng	# 91
31) Chrysene	21.46	228	37857	0.37	ng	92
32) Bis(2-ethylhexyl)phthalate	21.34	149	85980	0.59	ng	# 66
33) Indeno(1,2,3-cd)pyrene	26.59	276	43188	0.43	ng	# 89
35) Benzo(b)fluoranthene	23.17	252	40686	0.44	ng	# 95
36) Benzo(k)fluoranthene	23.22	252	41244	0.44	ng	# 94
37) Benzo(a)pyrene	23.82	252	33402	0.40	ng	# 94
38) Dibenzo(a,h)anthracene	26.61	278	36333	0.43	ng	# 87
39) Benzo(g,h,i)perylene	27.40	276	36270	0.42	ng	# 89

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

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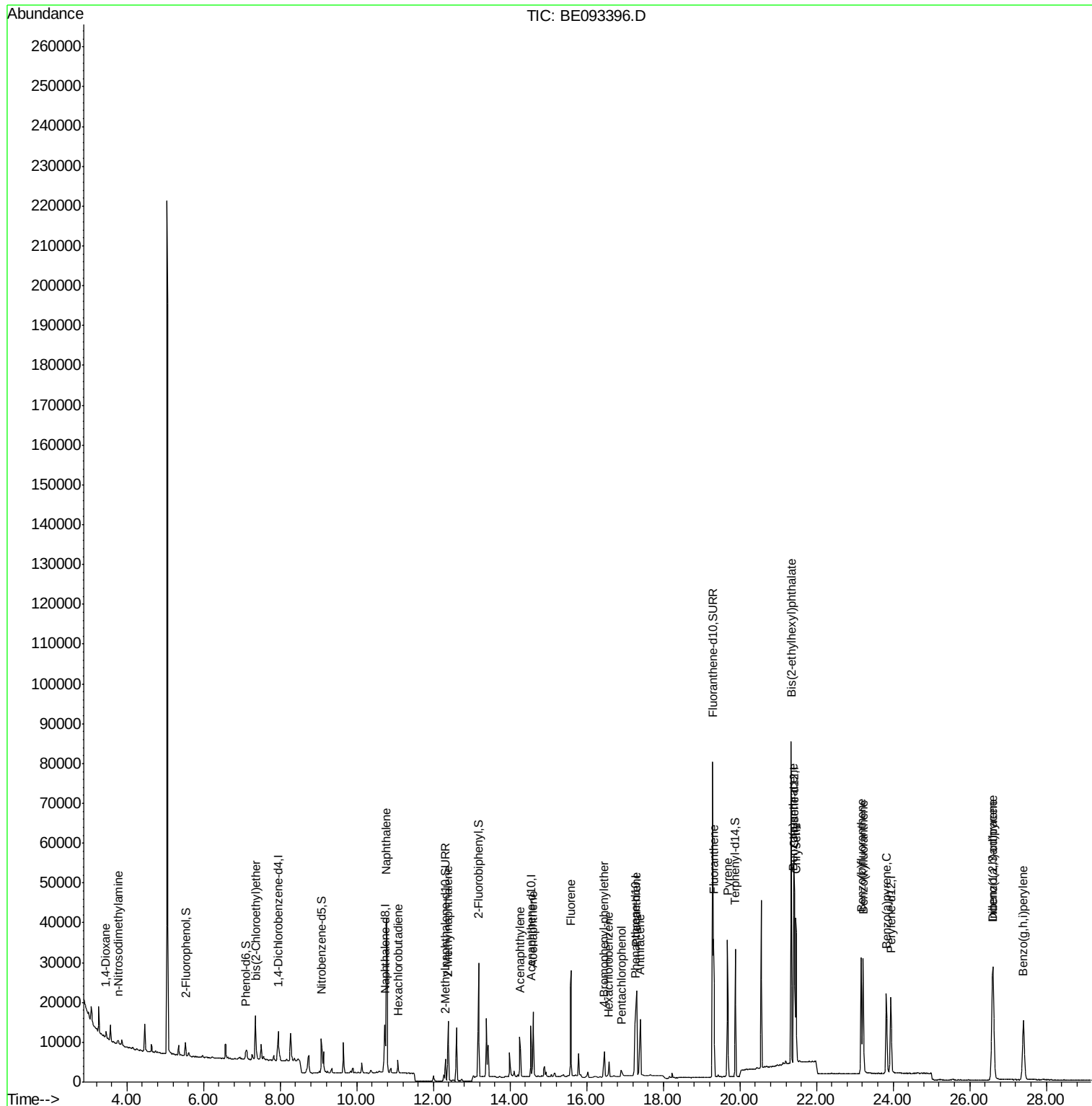
Quant Time: Jul 03 05:11:30 2017

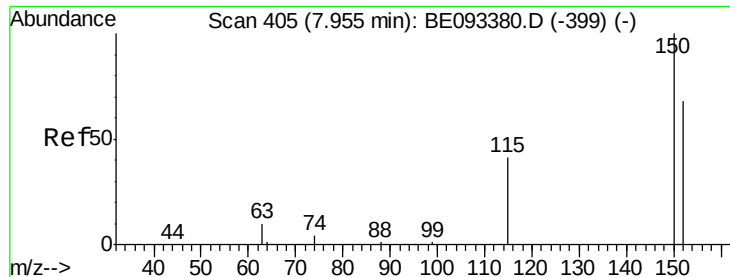
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE070117.M

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QLast Update : Sat Jul 01 15:43:24 2017

Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.95 min Scan# 404

Delta R.T. -0.01 min

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Instrument :

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ClientSampleId :

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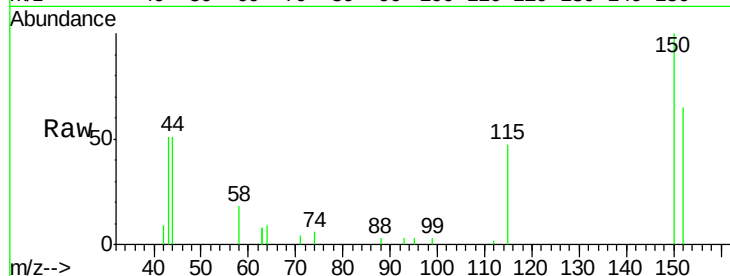
Tgt Ion:152 Resp: 3310

Ion Ratio Lower Upper

152 100

150 154.5 125.1 187.7

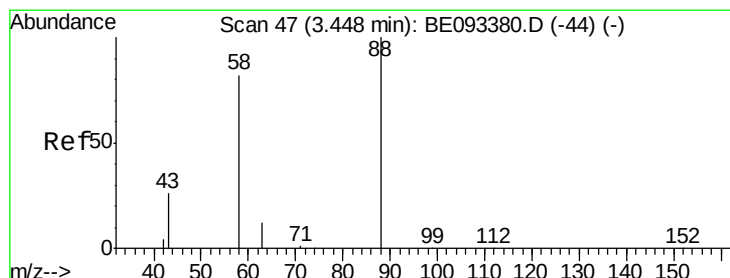
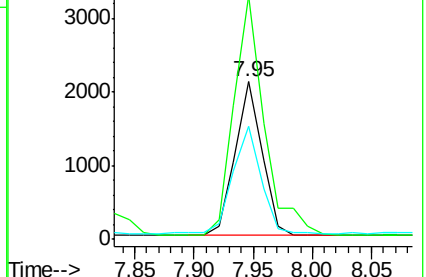
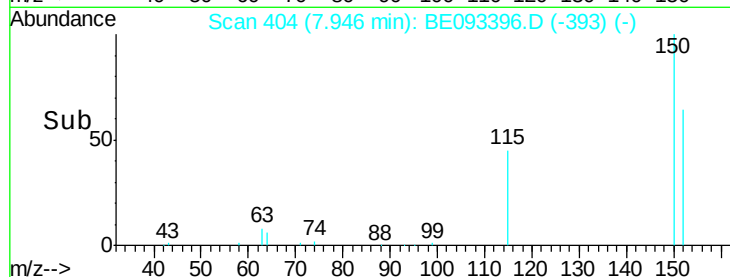
115 72.1 55.7 83.5



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



#2

1,4-Dioxane

Concen: 0.17 ng

RT: 3.45 min Scan# 47

Delta R.T. 0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

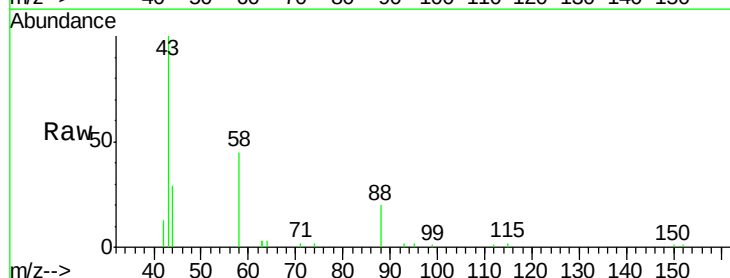
Tgt Ion: 88 Resp: 1135

Ion Ratio Lower Upper

88 100

58 123.7 62.2 93.4#

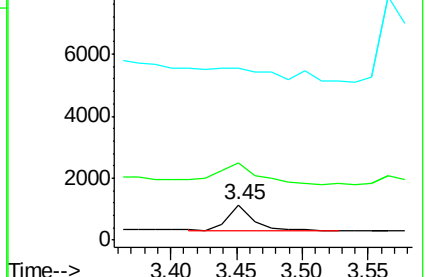
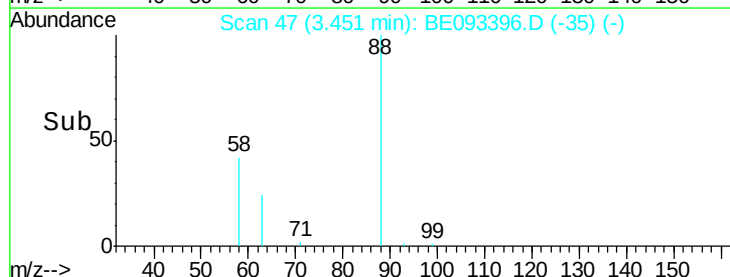
43 0.0 23.2 34.8#

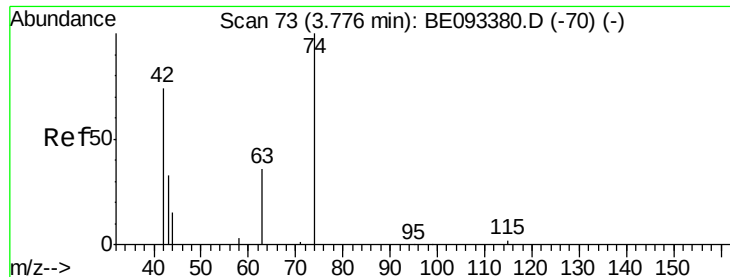


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.26 ng

RT: 3.77 min Scan# 72

Delta R.T. -0.01 min

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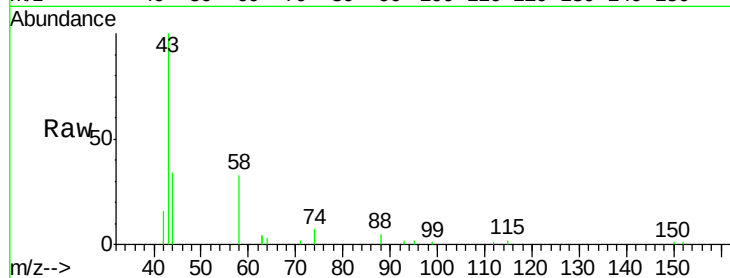
Tgt Ion: 42 Resp: 706

Ion Ratio Lower Upper

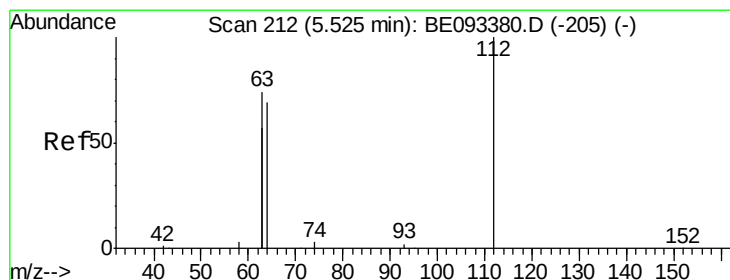
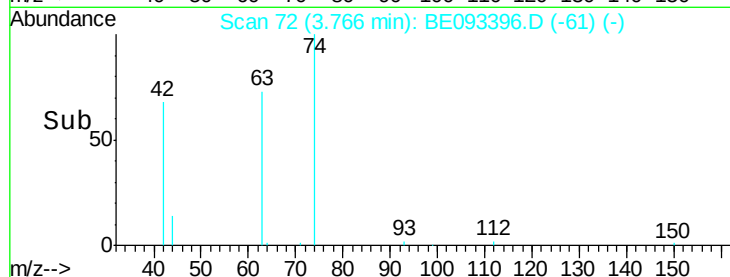
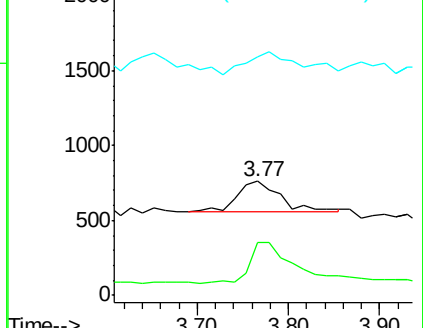
42 100

74 130.3 99.1 148.7

44 91.2 7.4 11.2#



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.18 ng

RT: 5.53 min Scan# 212

Delta R.T. 0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

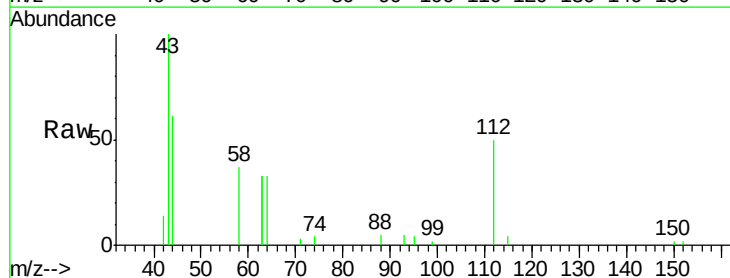
Tgt Ion: 112 Resp: 1882

Ion Ratio Lower Upper

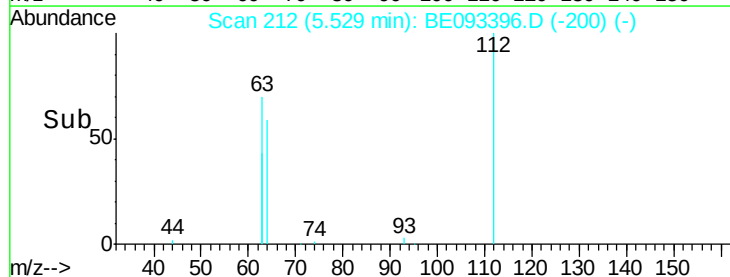
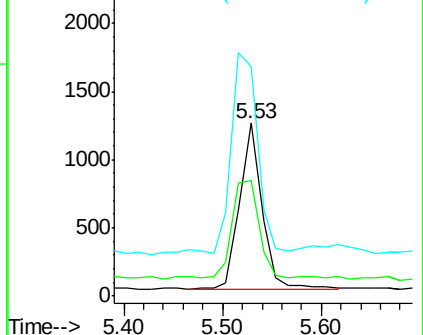
112 100

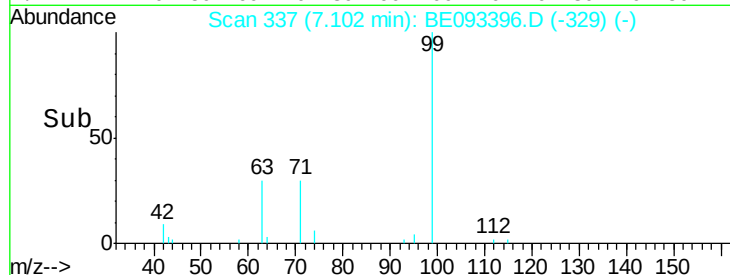
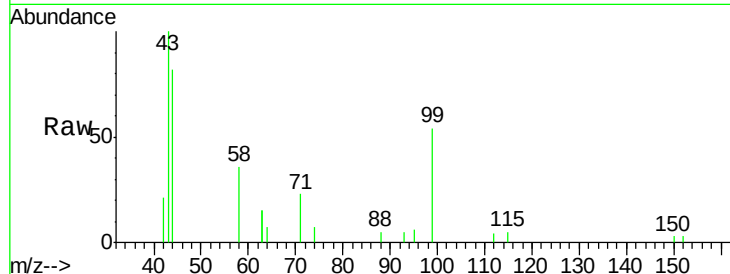
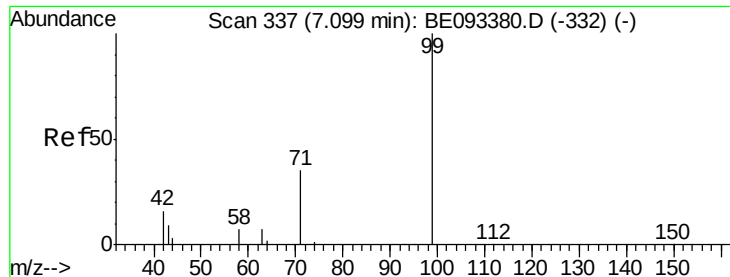
64 75.3 56.4 84.6

63 147.6 29.3 43.9#



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: 0.11 ng

RT: 7.10 min Scan# 337

Delta R.T. 0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

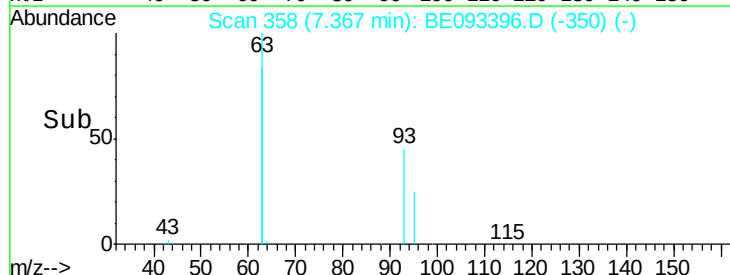
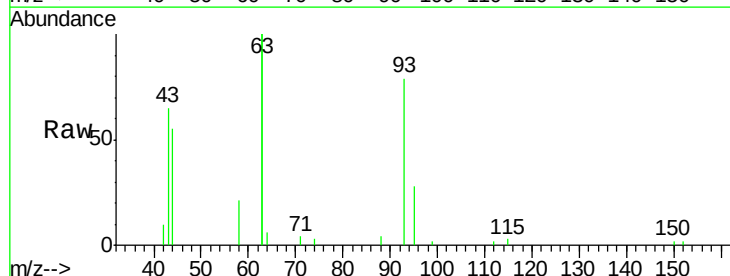
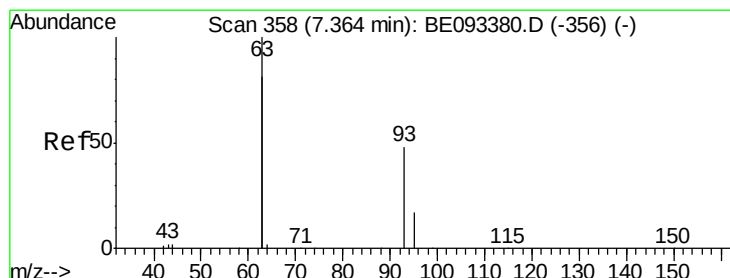
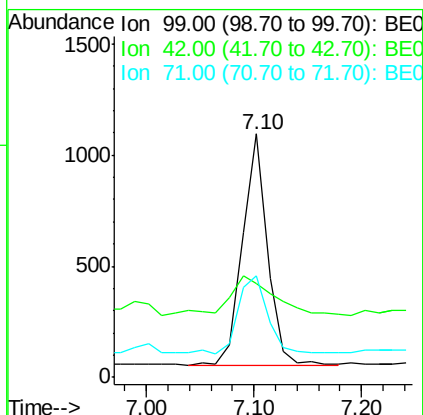
Tgt Ion: 99 Resp: 1681

Ion Ratio Lower Upper

99 100

42 29.6 0.0 0.0#

71 39.4 0.0 0.0#



#6

bis(2-Chloroethyl)ether

Concen: 0.37 ng

RT: 7.37 min Scan# 358

Delta R.T. 0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

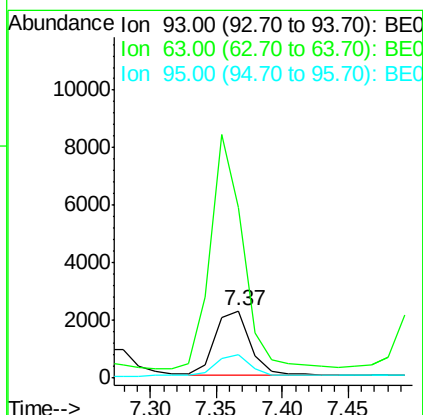
Tgt Ion: 93 Resp: 4064

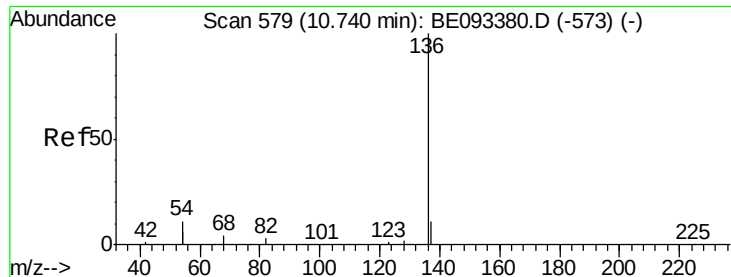
Ion Ratio Lower Upper

93 100

63 342.5 0.0 0.0#

95 33.1 25.4 38.0





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.74 min Scan# 579

Delta R.T. 0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

Tgt Ion:136 Resp: 14859

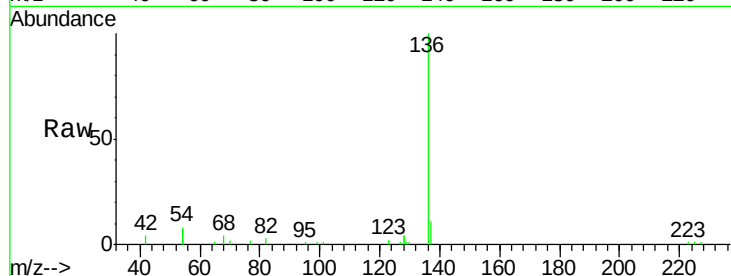
Ion Ratio Lower Upper

136 100

137 11.4 9.8 14.8

54 16.7 10.3 15.5#

68 3.7 9.0 13.4#

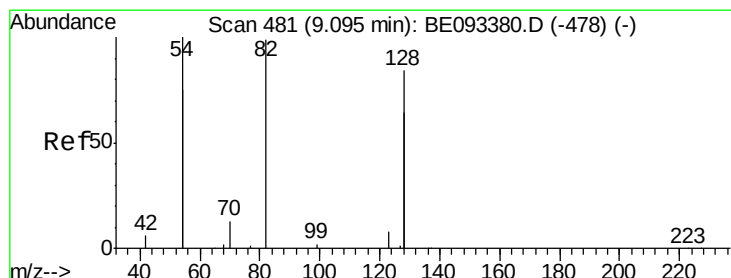
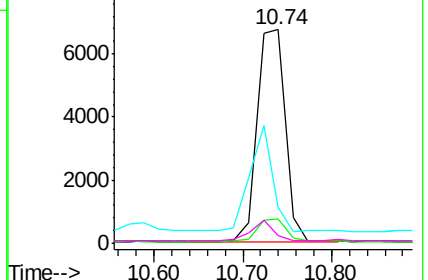
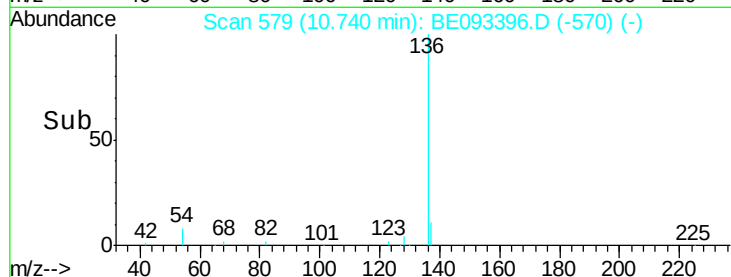


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.42 ng

RT: 9.08 min Scan# 480

Delta R.T. -0.02 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

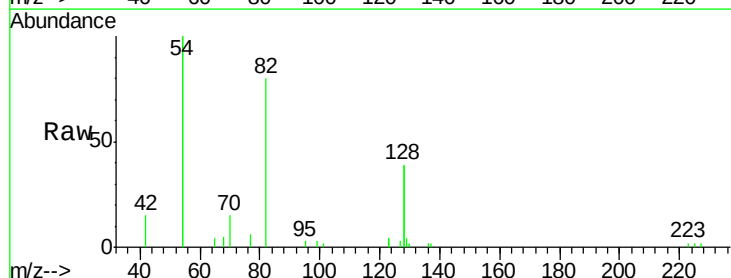
Tgt Ion: 82 Resp: 3696

Ion Ratio Lower Upper

82 100

128 97.8 17.0 25.4#

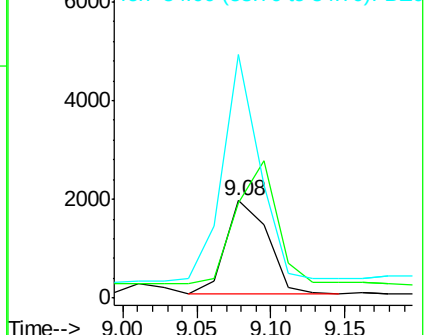
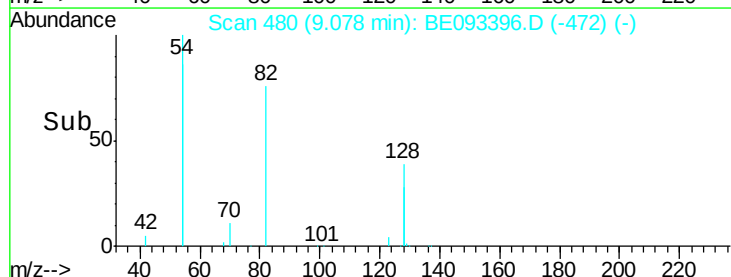
54 250.3 53.8 80.6#

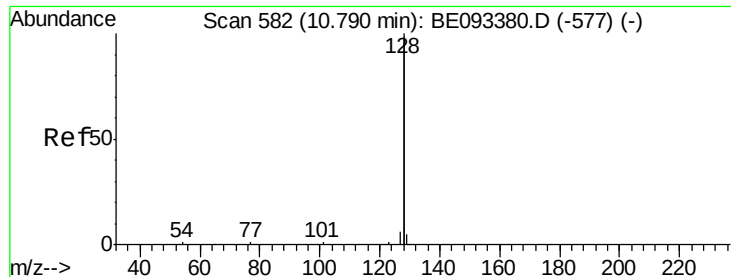


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.44 ng

RT: 10.77 min Scan# 581

Delta R.T. -0.02 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

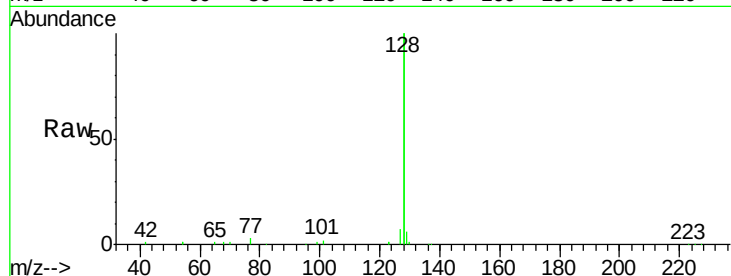
Tgt Ion:128 Resp: 68361

Ion Ratio Lower Upper

128 100

129 2.9 11.4 17.0#

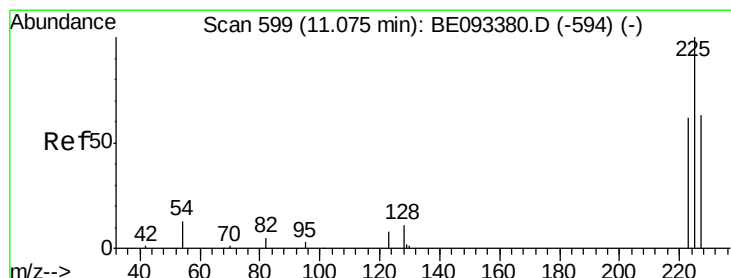
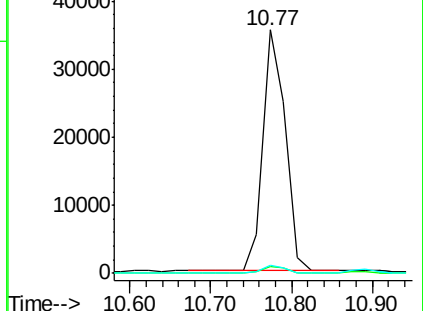
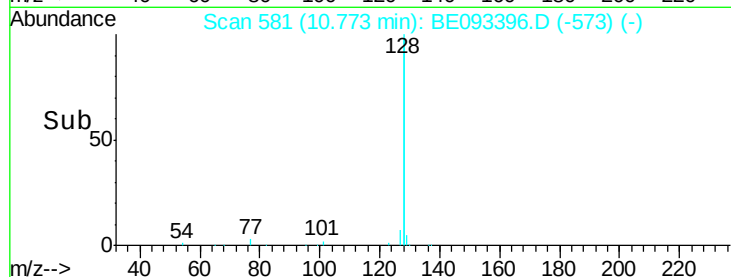
127 3.5 11.2 16.8#



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



#10

Hexachlorobutadiene

Concen: 0.37 ng

RT: 11.08 min Scan# 599

Delta R.T. 0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

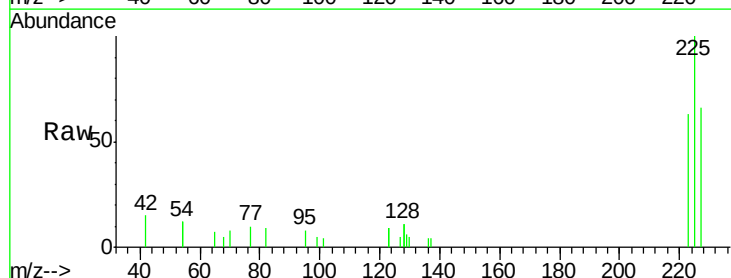
Tgt Ion:225 Resp: 2305

Ion Ratio Lower Upper

225 100

223 62.9 49.7 74.5

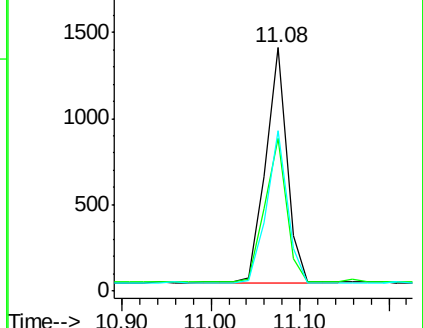
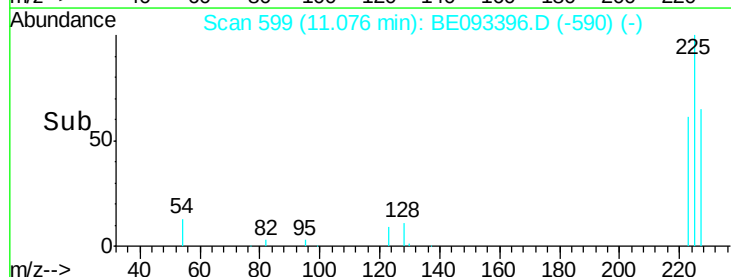
227 64.1 50.3 75.5

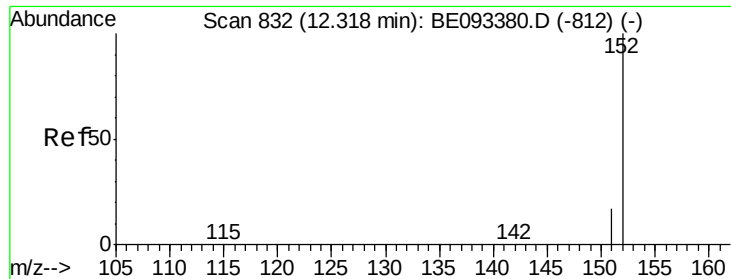


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

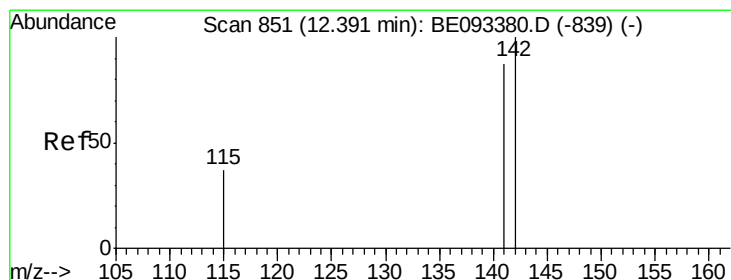
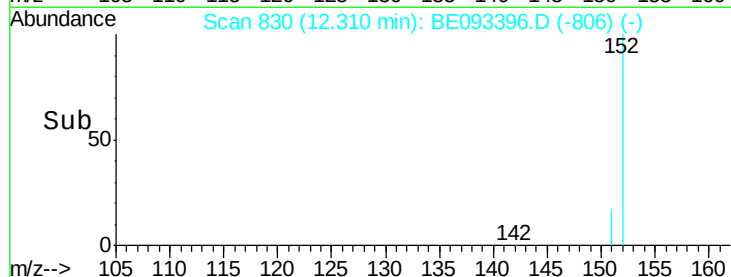
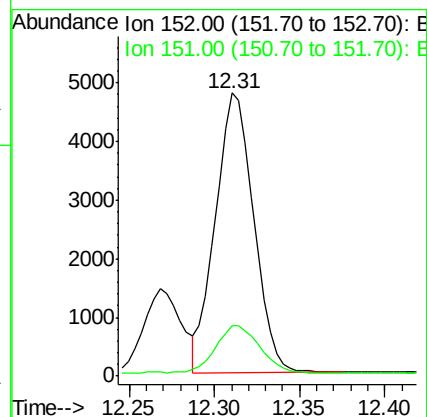
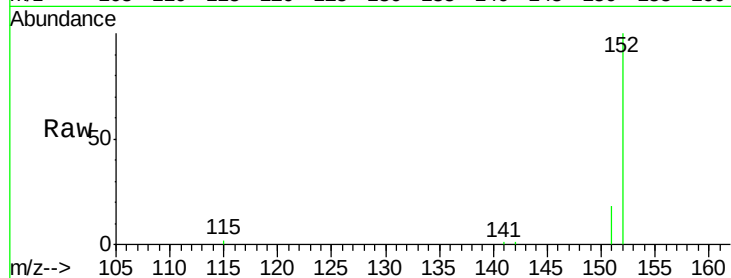




#11
 2-Methylnaphthalene-d10
 Concen: 0.31 ng
 RT: 12.31 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: BE093396.D
 Acq: 1 Jul 2017 17:18

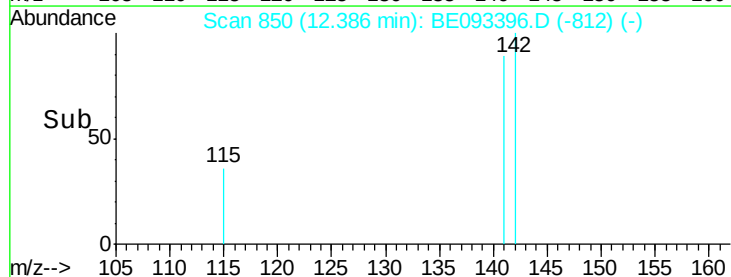
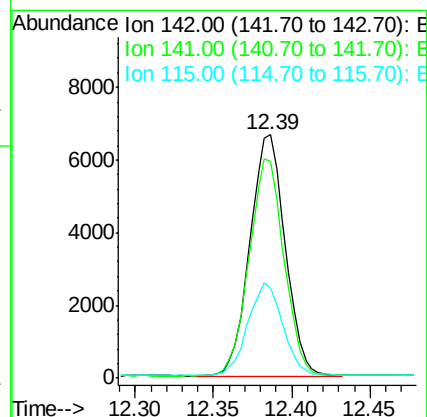
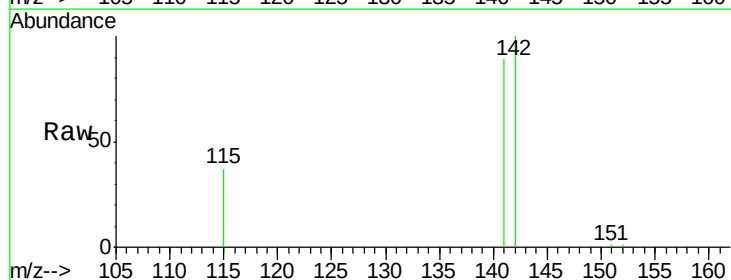
Instrument :
 BNA_E
 ClientSampleId :
 MH-117N-20170627MS

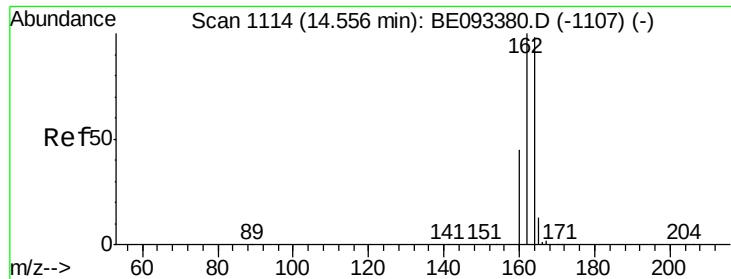
Tgt Ion:152 Resp: 7429
 Ion Ratio Lower Upper
 152 100
 151 19.3 15.1 22.7



#12
 2-Methylnaphthalene
 Concen: 0.40 ng
 RT: 12.39 min Scan# 850
 Delta R.T. -0.00 min
 Lab File: BE093396.D
 Acq: 1 Jul 2017 17:18

Tgt Ion:142 Resp: 10405
 Ion Ratio Lower Upper
 142 100
 141 88.8 72.6 108.8
 115 37.1 32.2 48.2





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.54 min Scan# 1113

Delta R.T. -0.02 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

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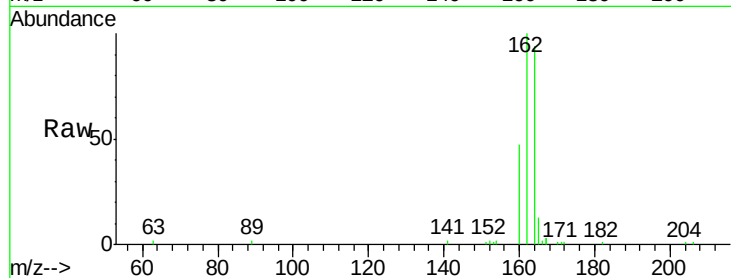
Tgt Ion: 164 Resp: 7717

Ion Ratio Lower Upper

164 100

162 106.5 84.6 127.0

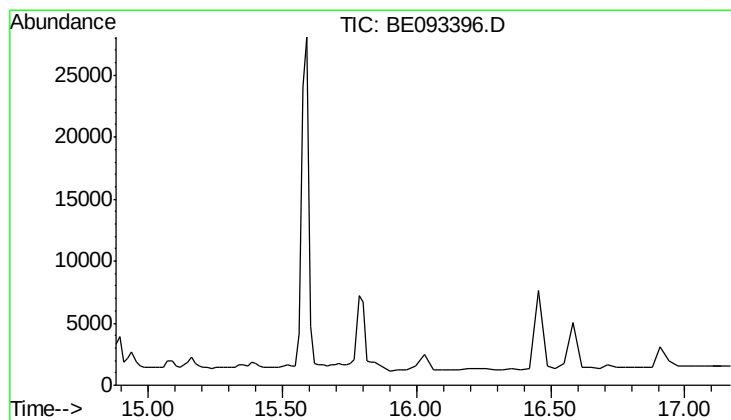
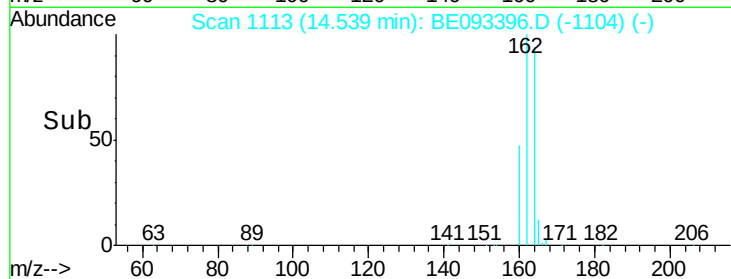
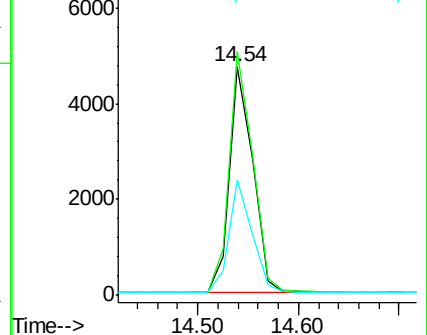
160 50.6 41.8 62.6



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: 0.00 ng

Expected RT: 16.03 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

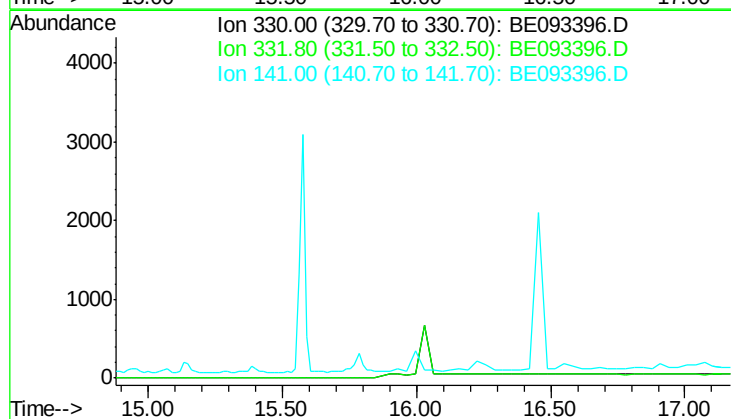
Tgt Ion: 330

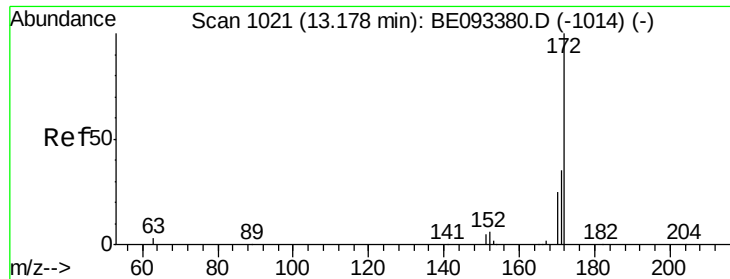
Sig Exp Ratio

330 100

332 97.1

141 70.3

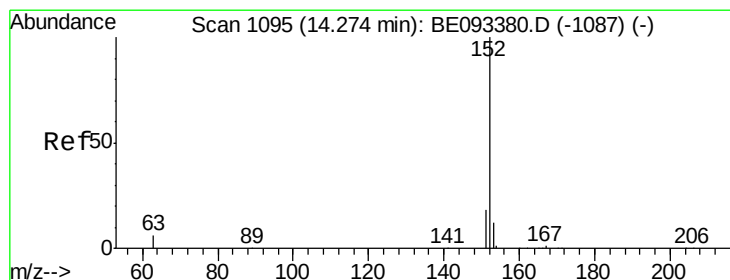
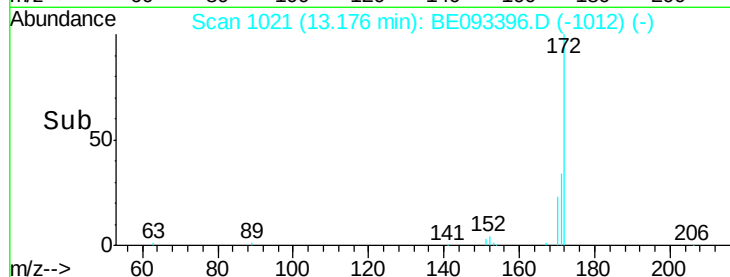
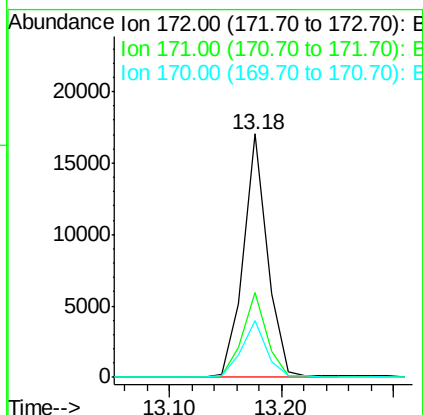
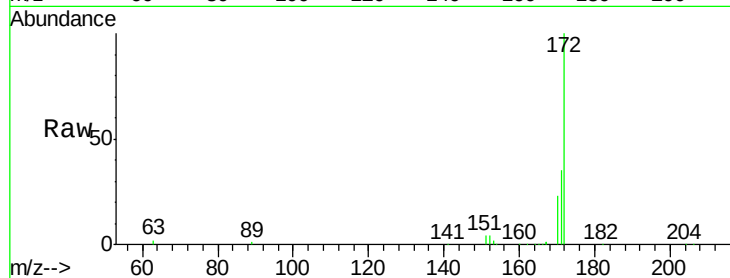




#15
2-Fluorobiphenyl
Concen: 0.84 ng
RT: 13.18 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BE093396.D
Acq: 1 Jul 2017 17:18

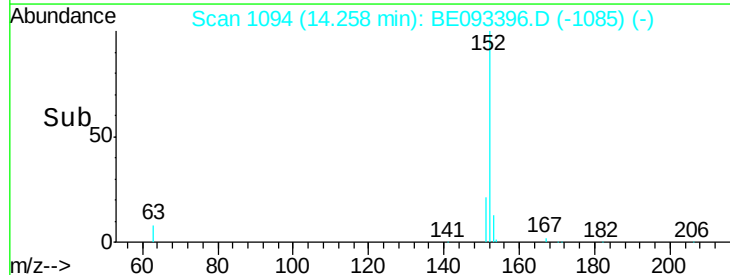
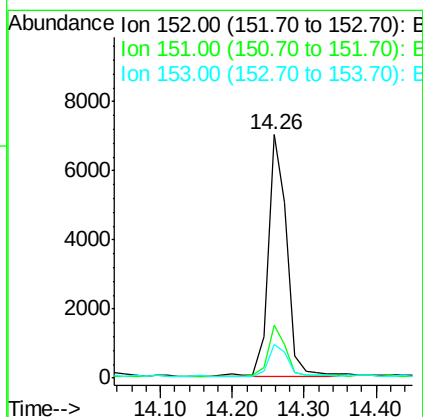
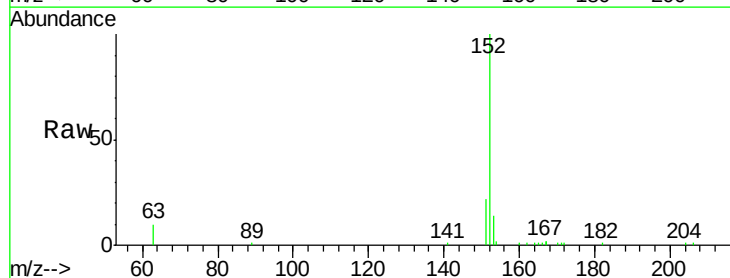
Instrument :
BNA_E
ClientSampleId :
MH-117N-20170627MS

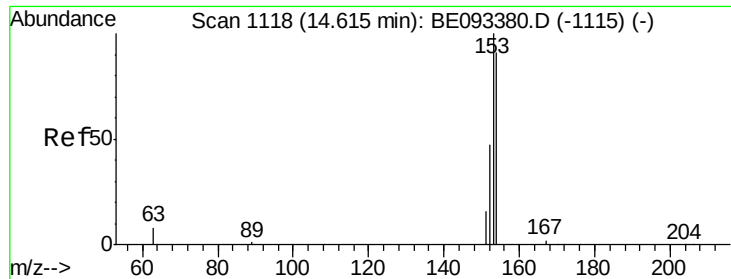
Tgt Ion:172 Resp: 25338
Ion Ratio Lower Upper
172 100
171 34.6 29.8 44.6
170 23.2 20.7 31.1



#16
Acenaphthylene
Concen: 0.38 ng
RT: 14.26 min Scan# 1094
Delta R.T. -0.02 min
Lab File: BE093396.D
Acq: 1 Jul 2017 17:18

Tgt Ion:152 Resp: 12611
Ion Ratio Lower Upper
152 100
151 20.0 4.0 6.0#
153 13.3 10.3 15.5





#17

Acenaphthene

Concen: 0.40 ng

RT: 14.60 min Scan# 1117

Delta R.T. -0.02 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

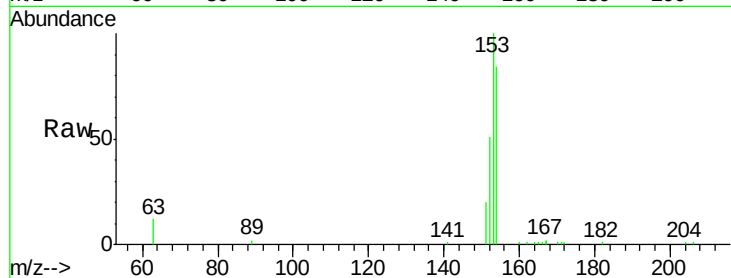
Tgt Ion:154 Resp: 9514

Ion Ratio Lower Upper

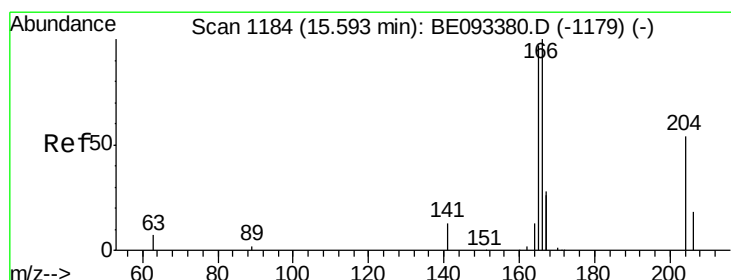
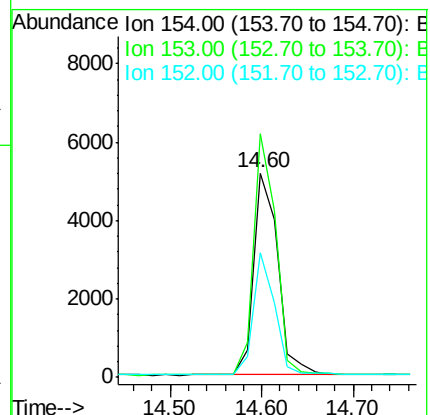
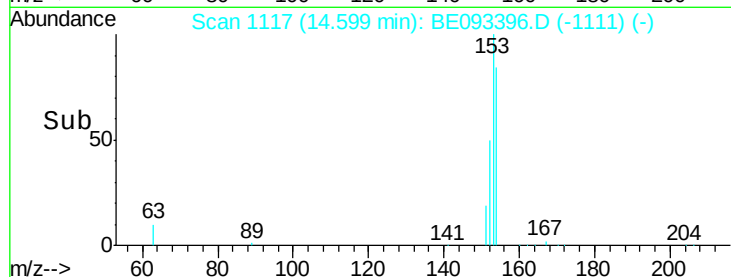
154 100

153 109.8 91.2 136.8

152 53.1 44.8 67.2



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: 0.40 ng

RT: 15.59 min Scan# 1184

Delta R.T. -0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

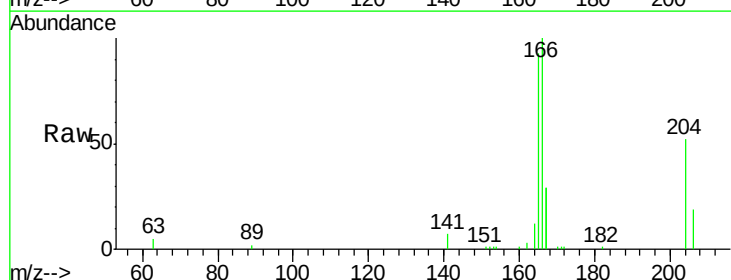
Tgt Ion:166 Resp: 12891

Ion Ratio Lower Upper

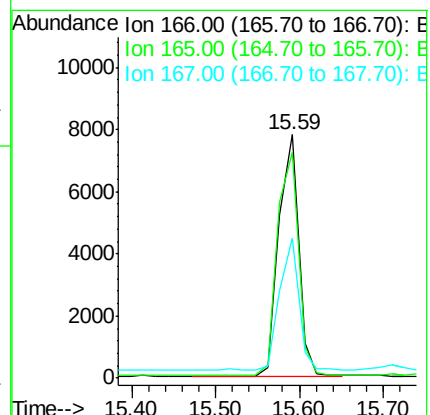
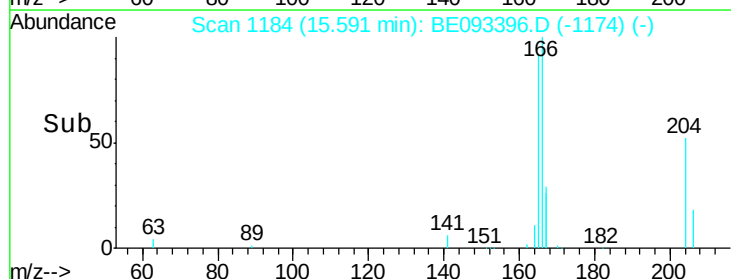
166 100

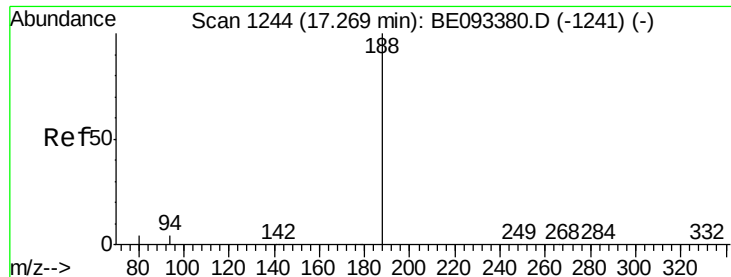
165 97.8 78.6 117.8

167 53.5 11.1 16.7#



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: 0.40 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

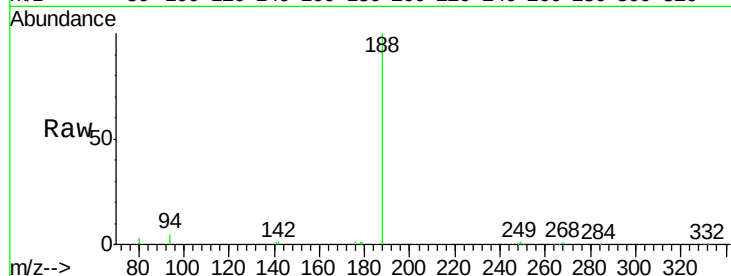
Tgt Ion:188 Resp: 24951

Ion Ratio Lower Upper

188 100

94 4.6 11.3 16.9#

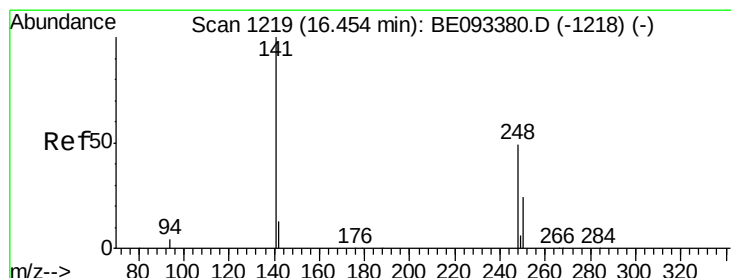
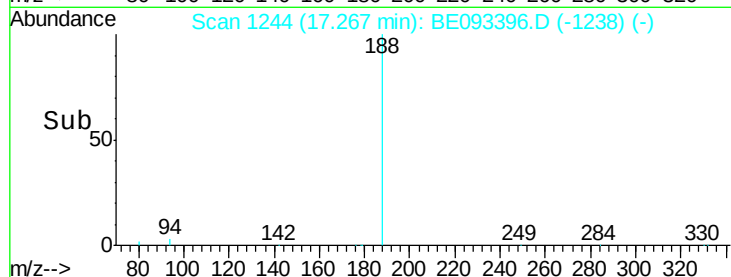
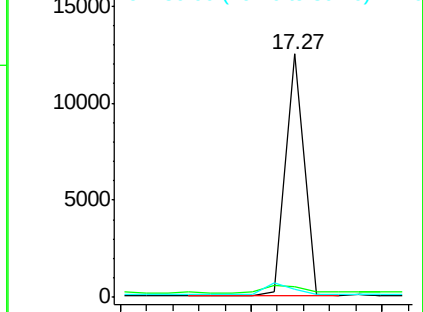
80 3.4 11.7 17.5#



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: 0.73 ng

RT: 16.45 min Scan# 1219

Delta R.T. -0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

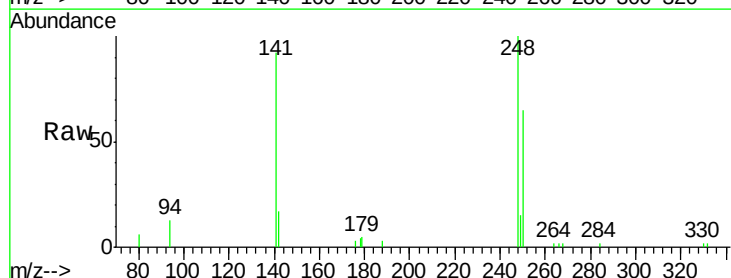
Tgt Ion:248 Resp: 4482

Ion Ratio Lower Upper

248 100

250 64.7 40.8 61.2#

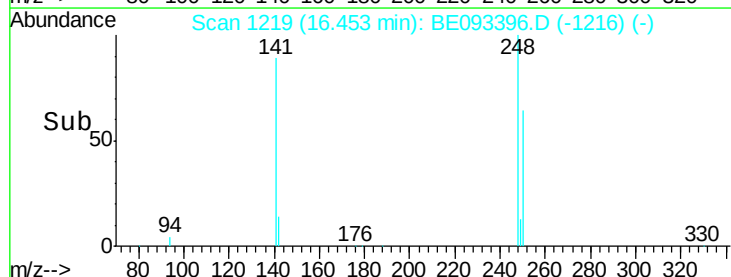
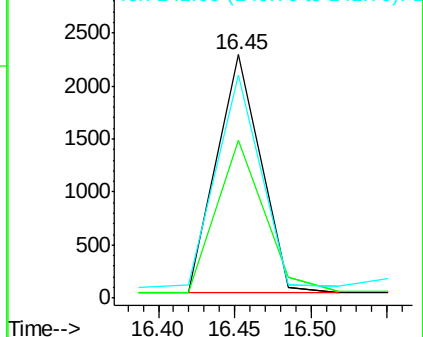
141 91.8 161.6 242.4#

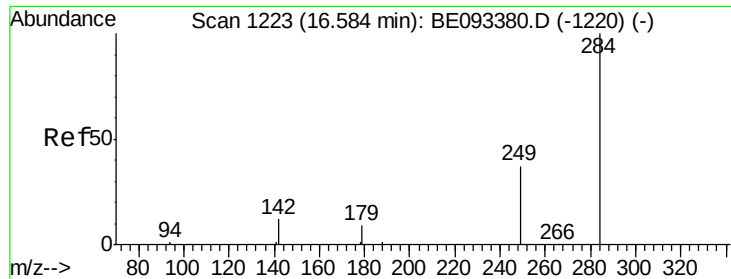


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.55 ng

RT: 16.58 min Scan# 1223

Delta R.T. -0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

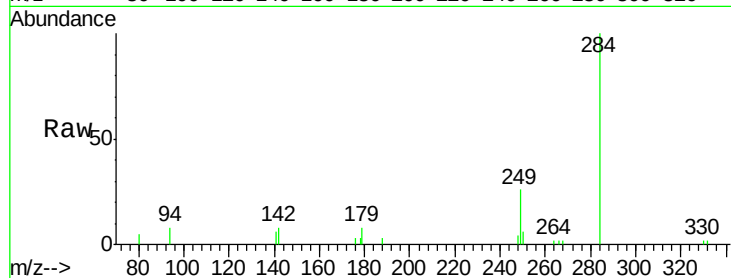
Tgt Ion:284 Resp: 5292

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

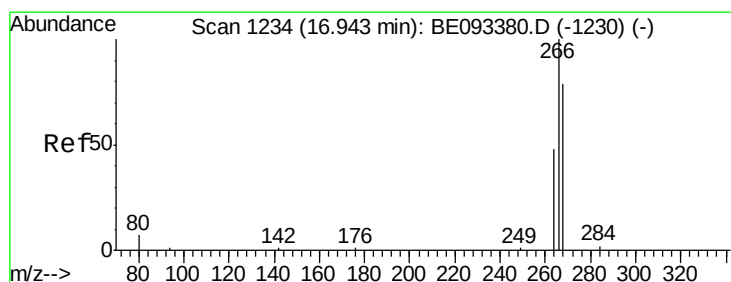
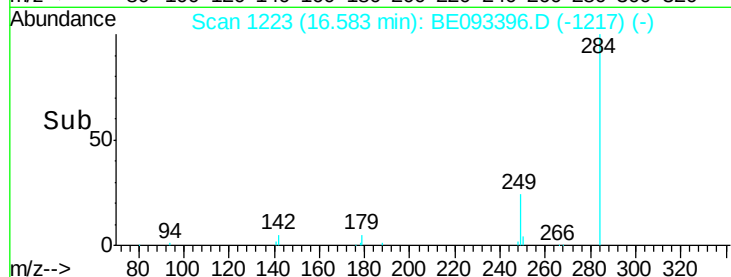
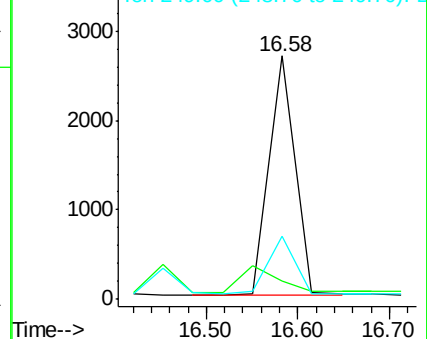
249 24.4 0.0 0.0#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 1.49 ng

RT: 16.91 min Scan# 1233

Delta R.T. -0.03 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

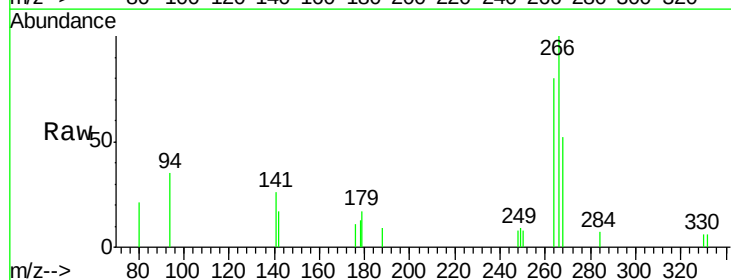
Tgt Ion:266 Resp: 1827

Ion Ratio Lower Upper

266 100

264 80.4 58.2 87.2

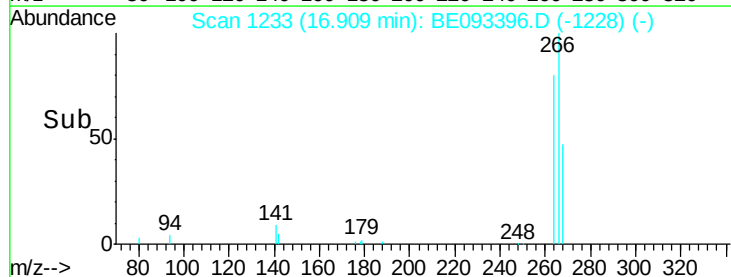
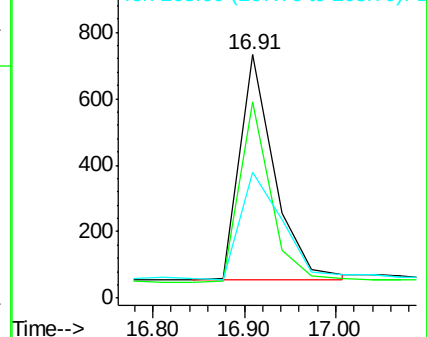
268 51.6 71.9 107.9#

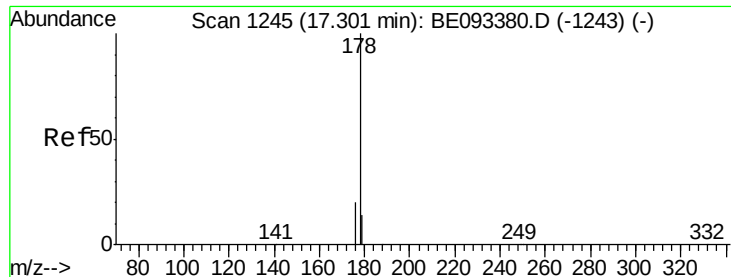


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.52 ng

RT: 17.30 min Scan# 1245

Delta R.T. -0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

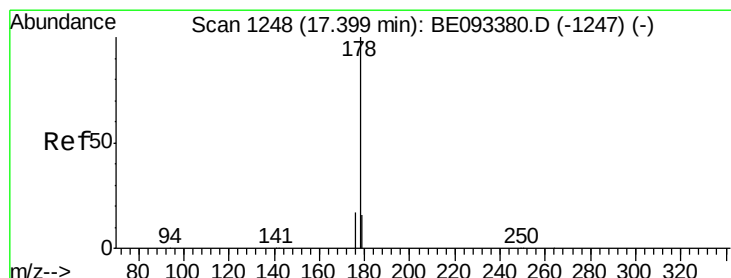
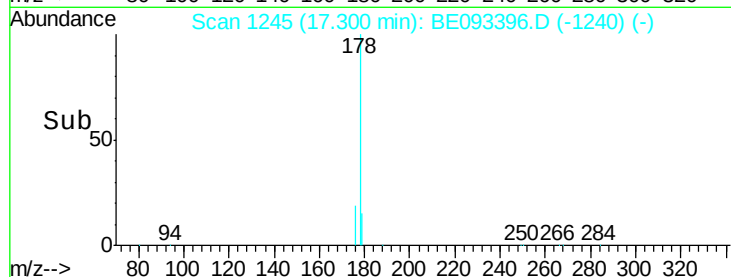
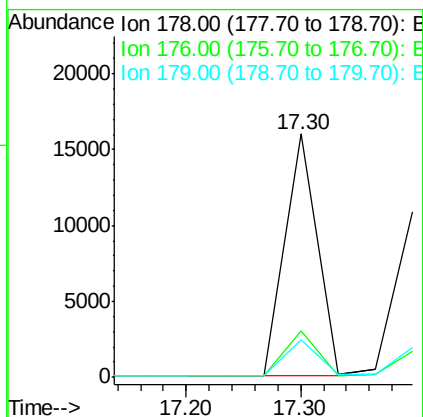
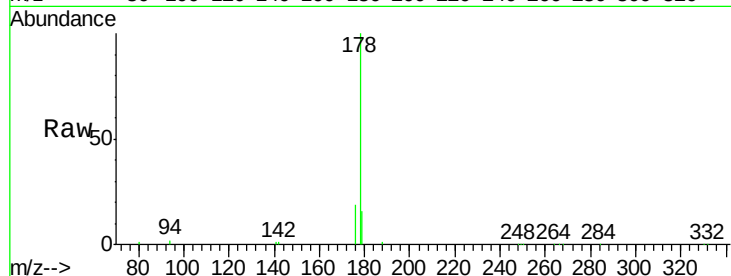
Tgt Ion:178 Resp: 31527

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.3 12.7 19.1



#24

Anthracene

Concen: 0.35 ng

RT: 17.40 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

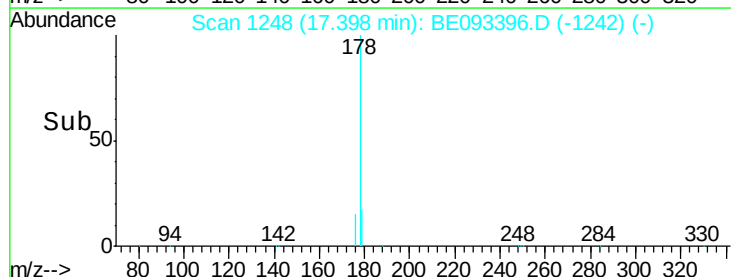
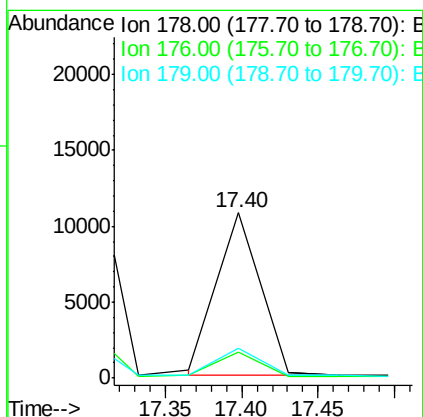
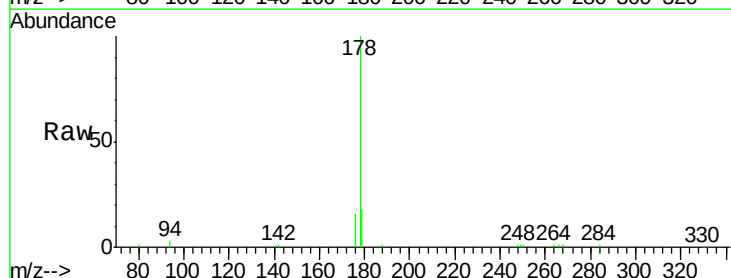
Tgt Ion:178 Resp: 21227

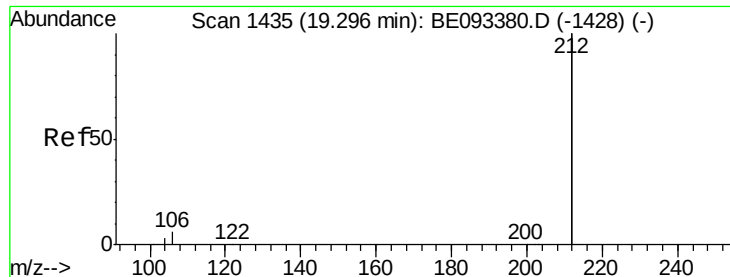
Ion Ratio Lower Upper

178 100

176 14.8 14.6 22.0

179 16.4 12.0 18.0





#25

Fluoranthene-d10

Concen: 0.44 ng

RT: 19.29 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

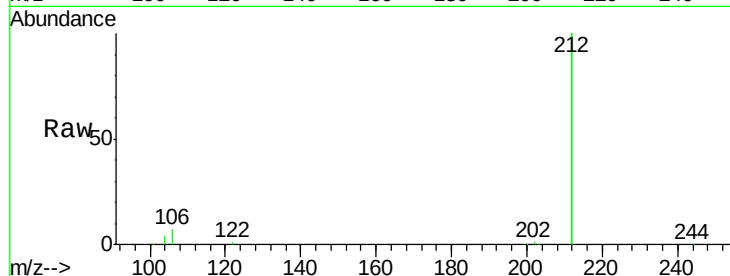
Tgt Ion:212 Resp: 101376

Ion Ratio Lower Upper

212 100

106 3.5 2.4 3.6

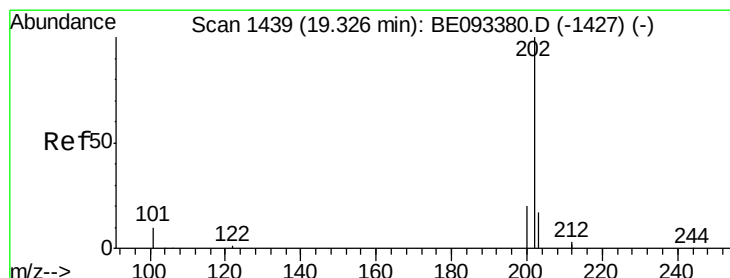
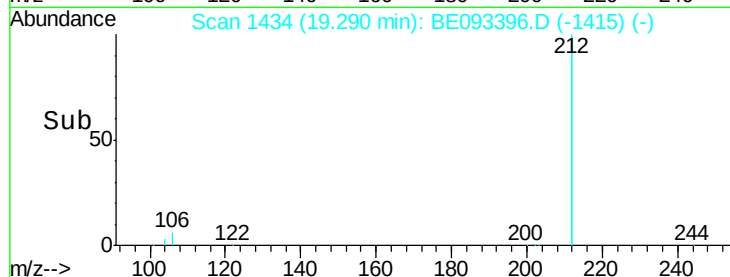
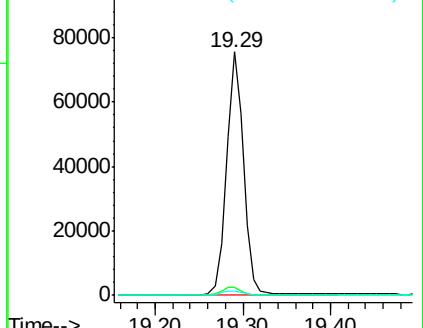
104 2.0 1.6 2.4



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: 0.46 ng

RT: 19.32 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

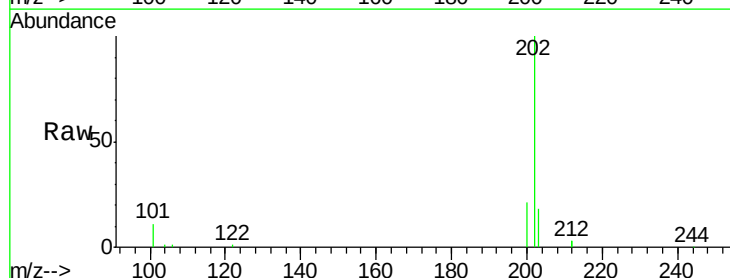
Tgt Ion:202 Resp: 30292

Ion Ratio Lower Upper

202 100

101 12.0 9.6 14.4

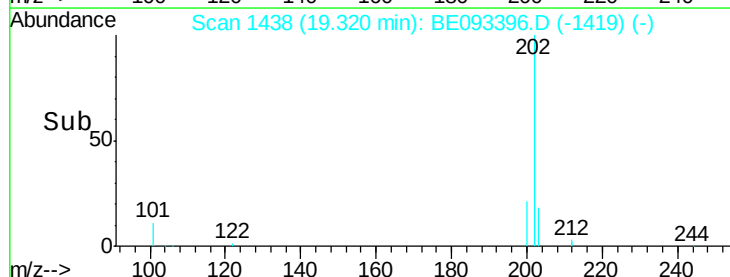
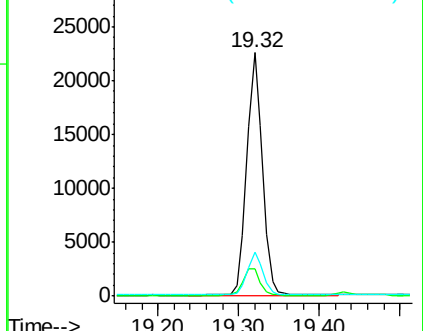
203 18.0 14.4 21.6

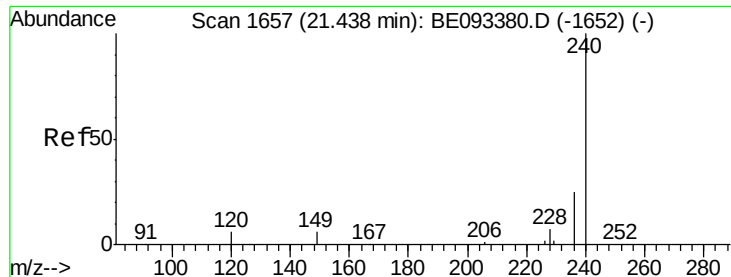


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.43 min Scan# 1656

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

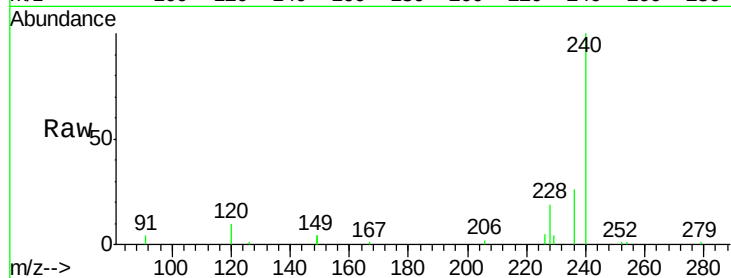
Tgt Ion:240 Resp: 35865

Ion Ratio Lower Upper

240 100

120 10.1 4.6 7.0#

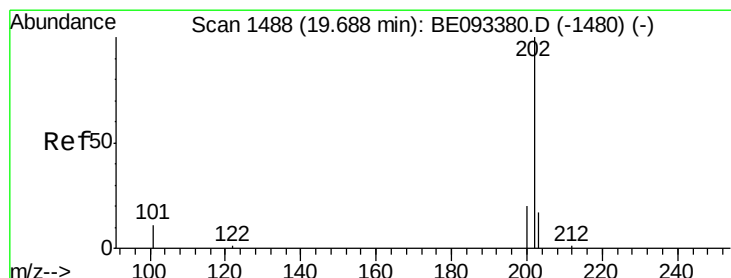
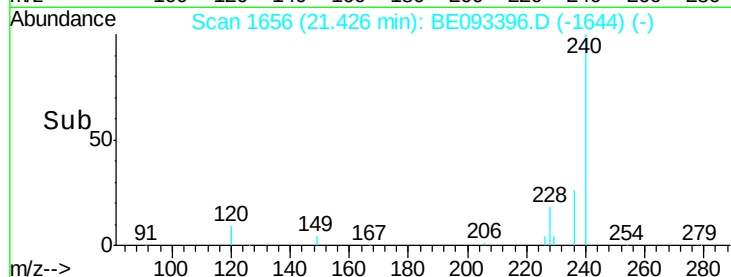
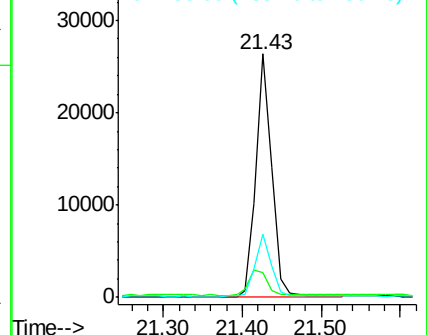
236 26.0 20.8 31.2



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

Pyrene

Concen: 0.34 ng

RT: 19.68 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

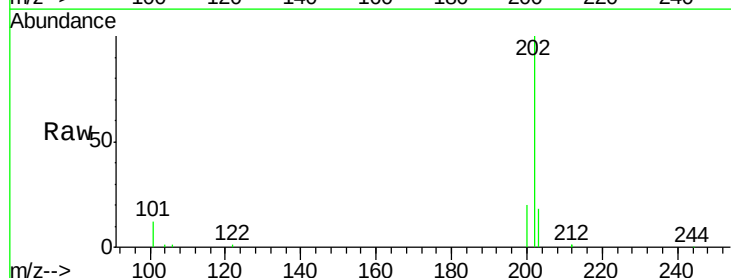
Tgt Ion:202 Resp: 31863

Ion Ratio Lower Upper

202 100

200 20.9 0.0 0.0#

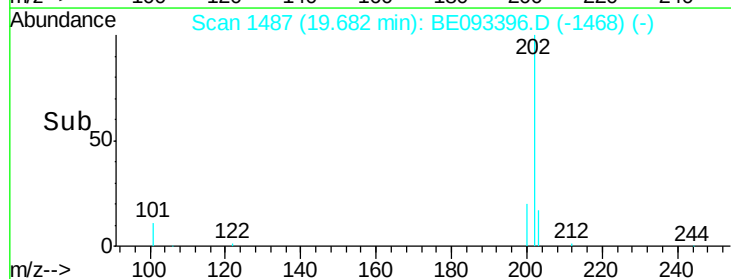
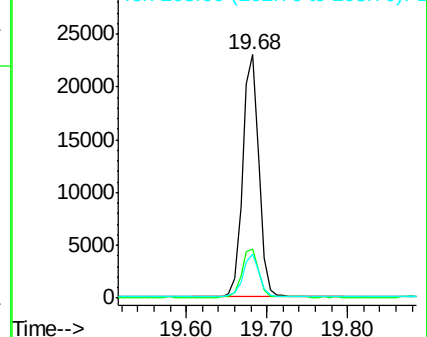
203 17.9 13.7 20.5

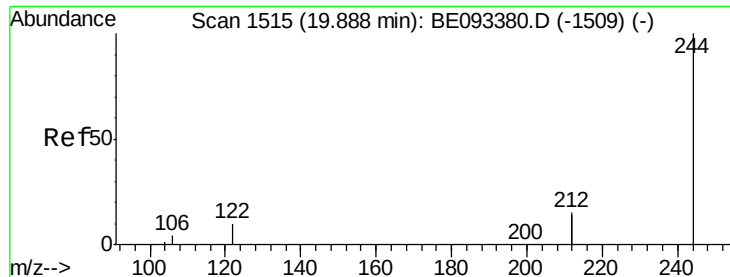


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.41 ng

RT: 19.88 min Scan# 1514

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

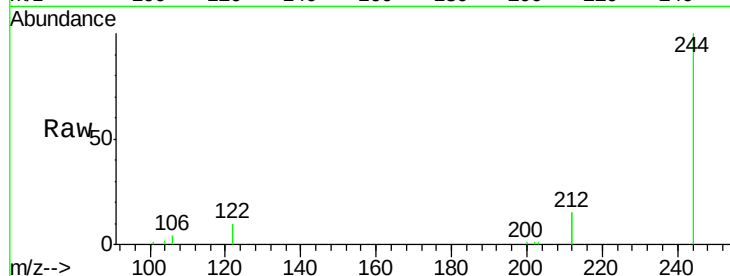
Tgt Ion:244 Resp: 27140

Ion Ratio Lower Upper

244 100

212 30.4 10.6 16.0#

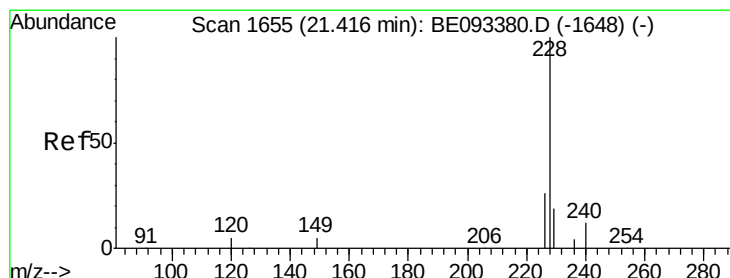
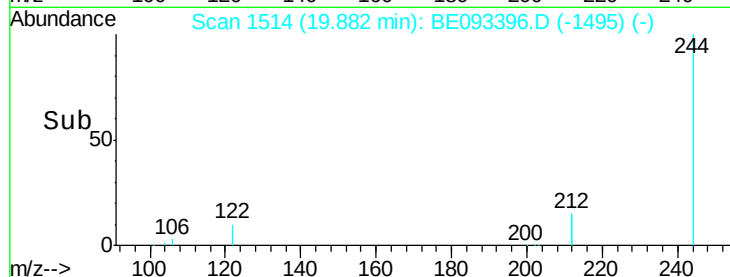
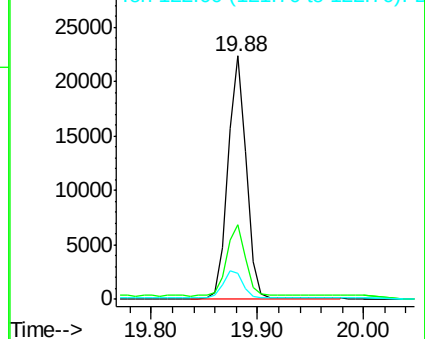
122 10.4 15.4 23.0#



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: 0.40 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

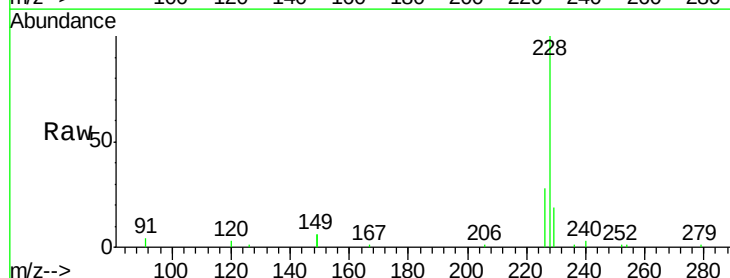
Tgt Ion:228 Resp: 38620

Ion Ratio Lower Upper

228 100

226 28.1 19.7 29.5

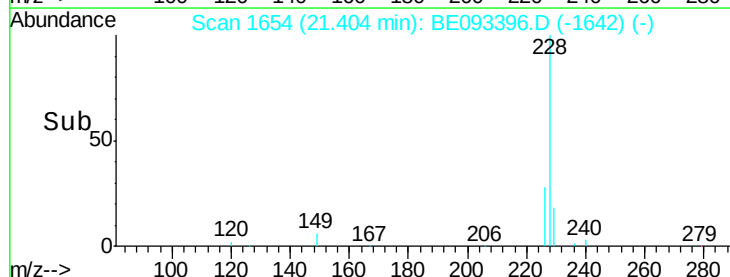
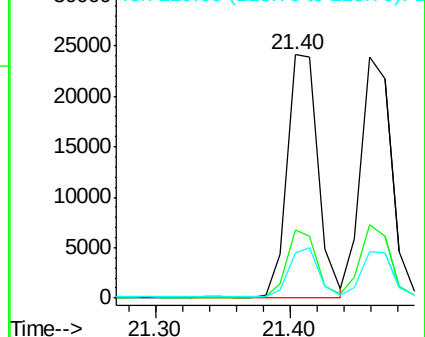
229 18.5 19.2 28.8#

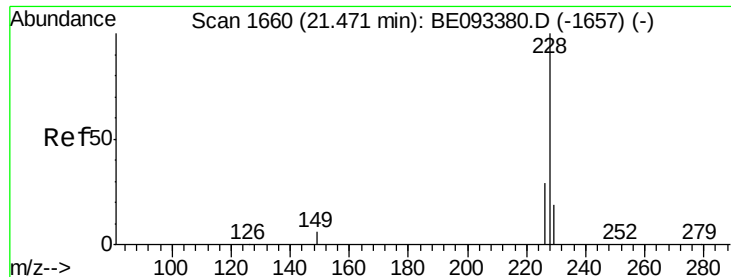


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.37 ng

RT: 21.46 min Scan# 1659

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

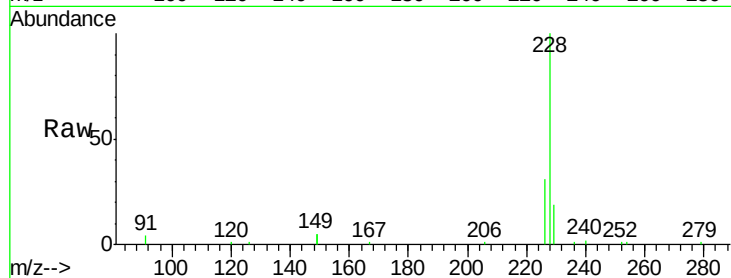
Tgt Ion:228 Resp: 37857

Ion Ratio Lower Upper

228 100

226 30.6 21.5 32.3

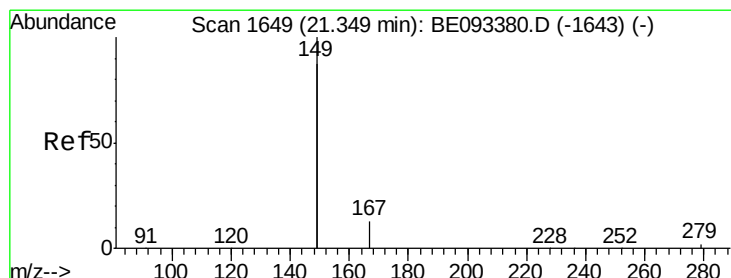
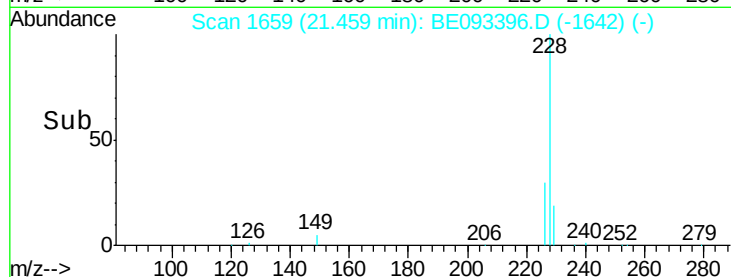
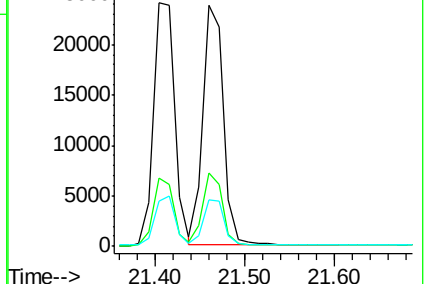
229 19.0 18.6 28.0



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: 0.59 ng

RT: 21.34 min Scan# 1648

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

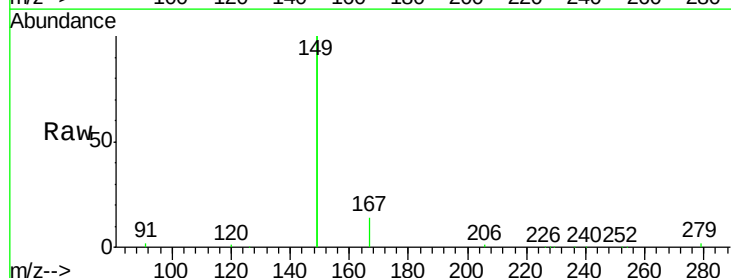
Tgt Ion:149 Resp: 85980

Ion Ratio Lower Upper

149 100

167 6.7 20.1 30.1#

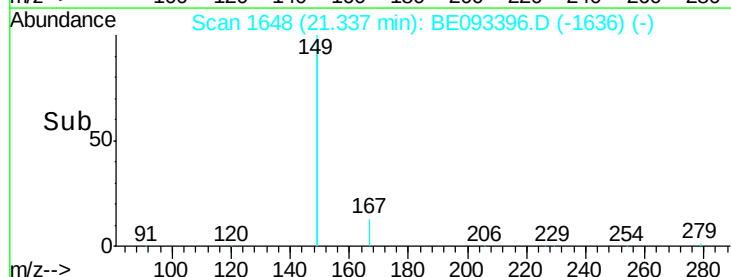
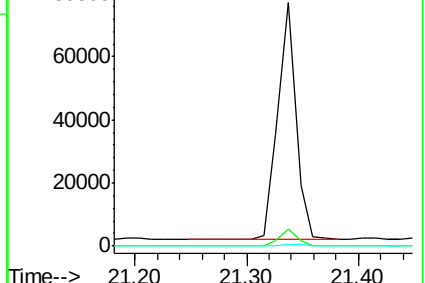
279 1.0 2.2 3.4#

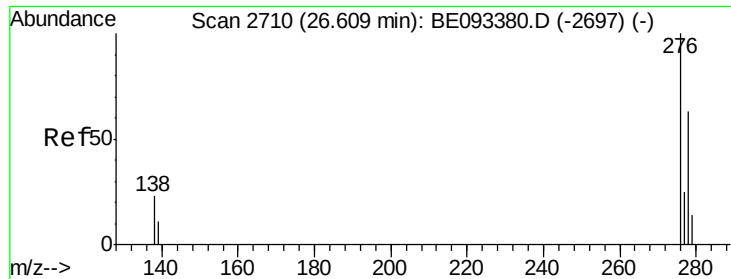


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

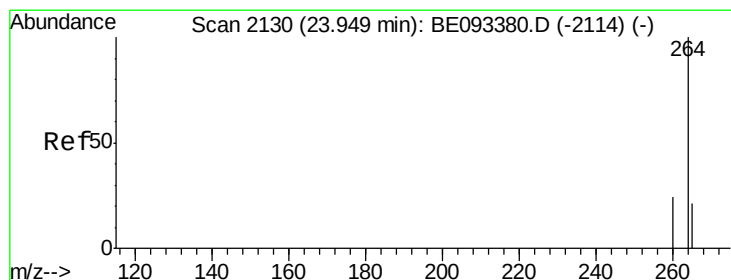
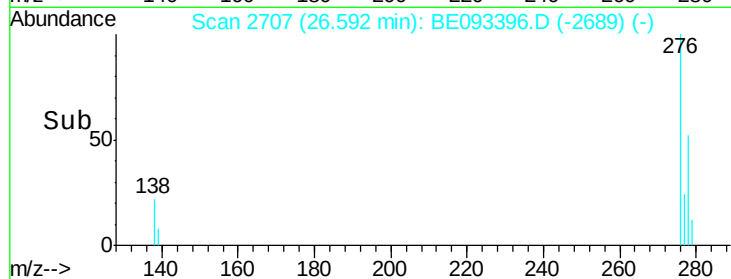
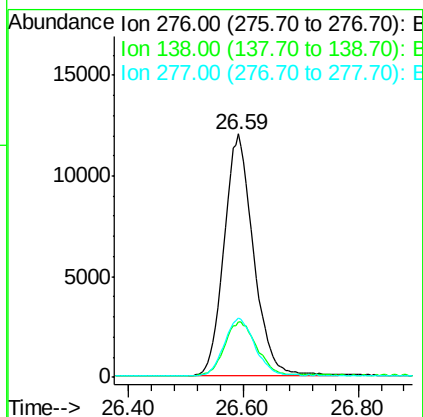
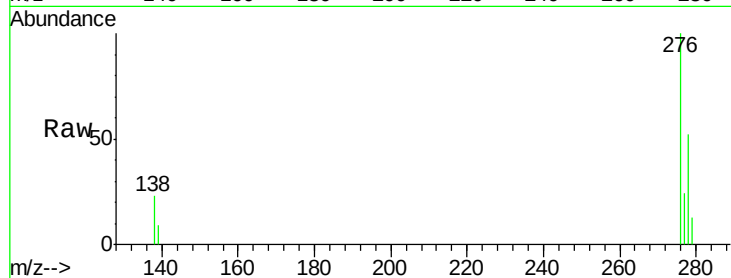




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.43 ng
 RT: 26.59 min Scan# 2707
 Delta R.T. -0.02 min
 Lab File: BE093396.D
 Acq: 1 Jul 2017 17:18

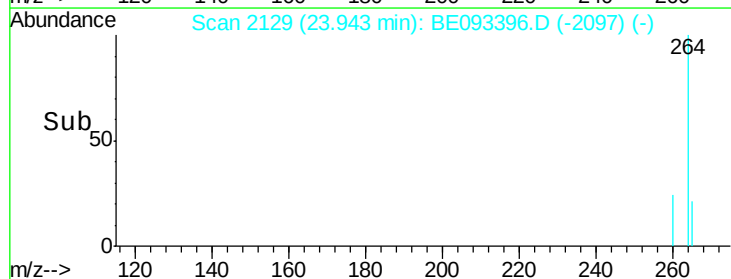
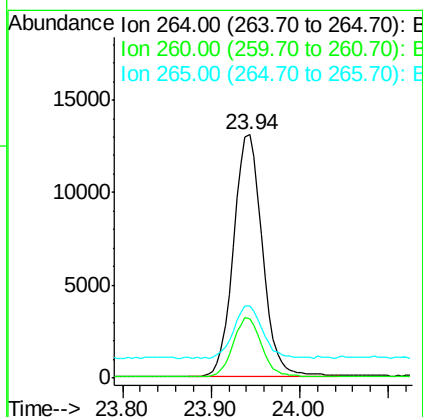
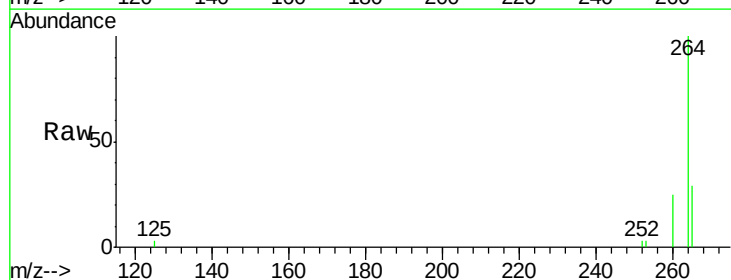
Instrument :
 BNA_E
 ClientSampleId :
 MH-117N-20170627MS

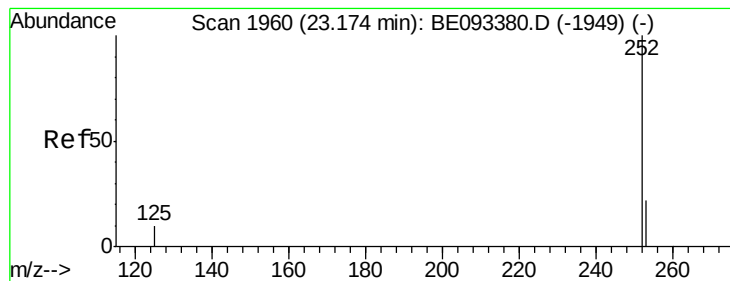
Tgt Ion:276 Resp: 43188
 Ion Ratio Lower Upper
 276 100
 138 24.1 27.4 41.2#
 277 24.7 20.1 30.1



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 23.94 min Scan# 2129
 Delta R.T. -0.01 min
 Lab File: BE093396.D
 Acq: 1 Jul 2017 17:18

Tgt Ion:264 Resp: 29701
 Ion Ratio Lower Upper
 264 100
 260 24.6 21.0 31.4
 265 29.4 24.6 36.8





#35

Benzo(b)fluoranthene

Concen: 0.44 ng

RT: 23.17 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

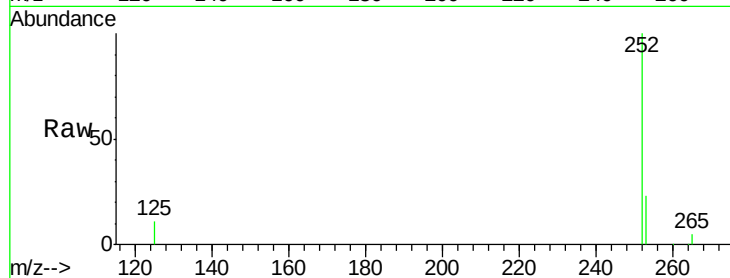
Tgt Ion:252 Resp: 40686

Ion Ratio Lower Upper

252 100

253 23.1 18.5 27.7

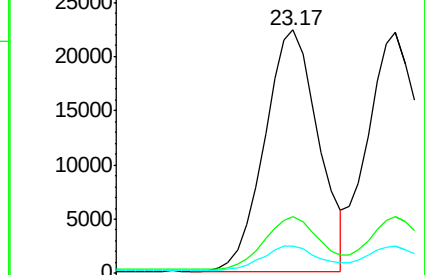
125 11.2 13.4 20.0#



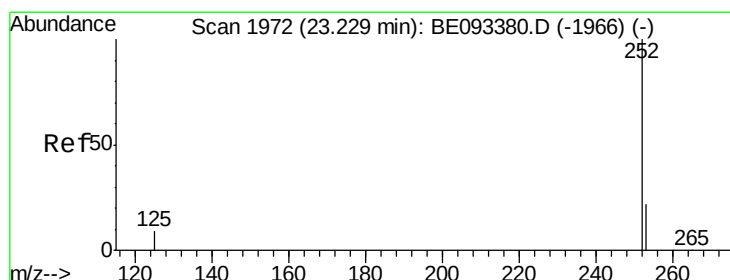
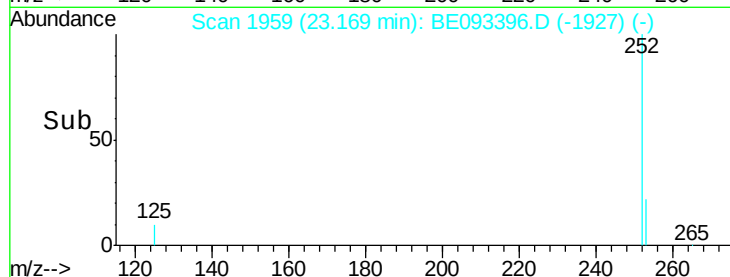
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#36

Benzo(k)fluoranthene

Concen: 0.44 ng

RT: 23.22 min Scan# 1970

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

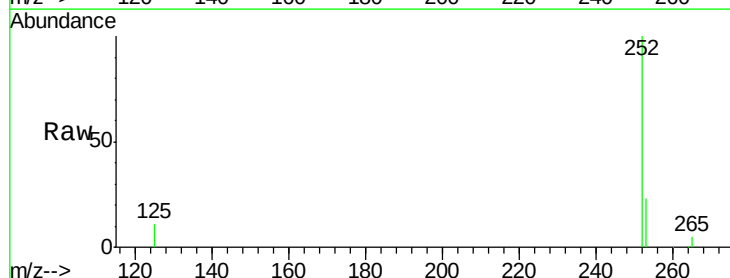
Tgt Ion:252 Resp: 41244

Ion Ratio Lower Upper

252 100

253 23.5 20.3 30.5

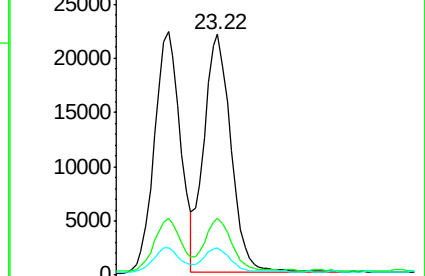
125 11.1 12.2 18.4#



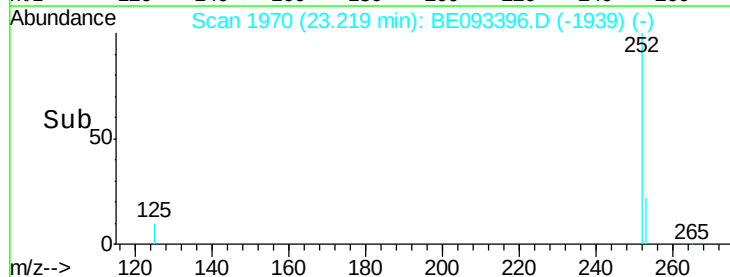
Abundance Ion 252.00 (251.70 to 252.70): E

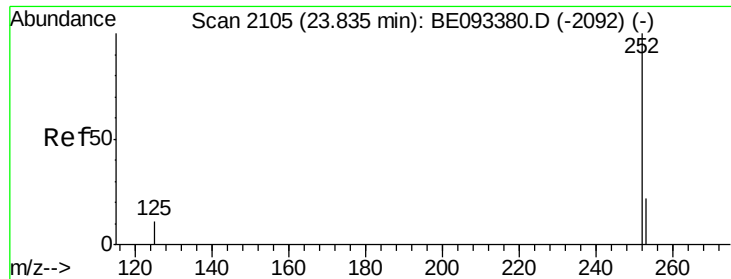
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#37

Benzo(a)pyrene

Concen: 0.40 ng

RT: 23.82 min Scan# 2103

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS

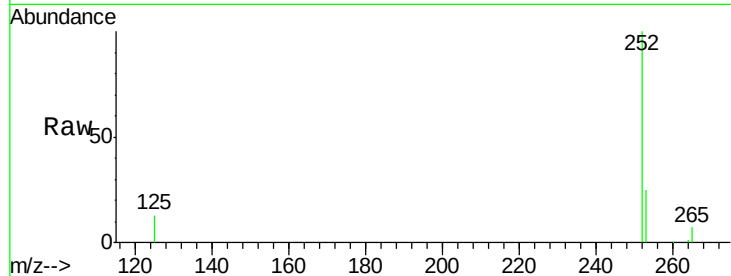
Tgt Ion:252 Resp: 33402

Ion Ratio Lower Upper

252 100

253 24.6 19.9 29.9

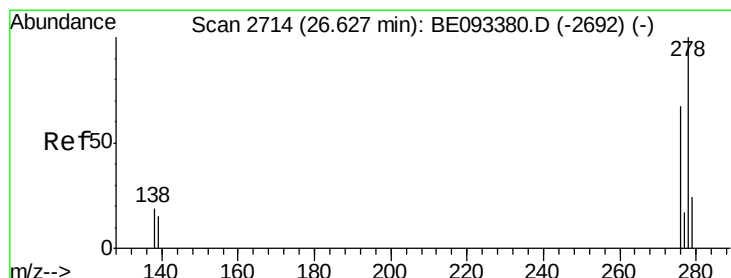
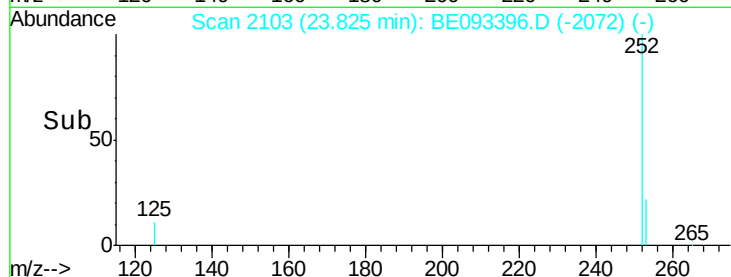
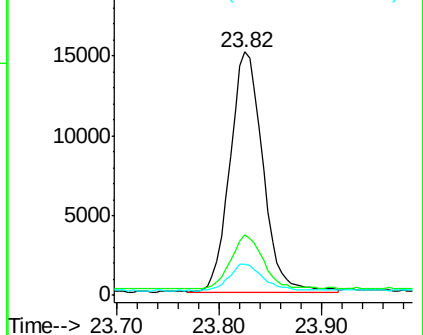
125 12.6 14.6 21.8#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.43 ng

RT: 26.61 min Scan# 2712

Delta R.T. -0.01 min

Lab File: BE093396.D

Acq: 1 Jul 2017 17:18

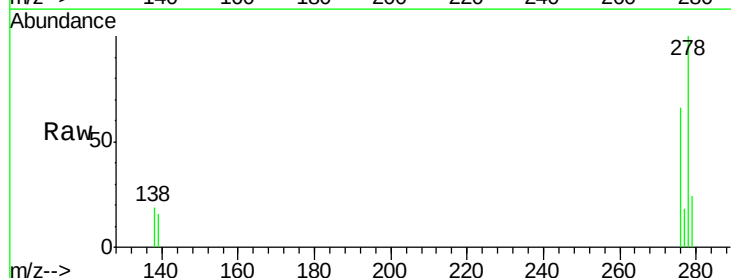
Tgt Ion:278 Resp: 36333

Ion Ratio Lower Upper

278 100

139 16.4 21.4 32.0#

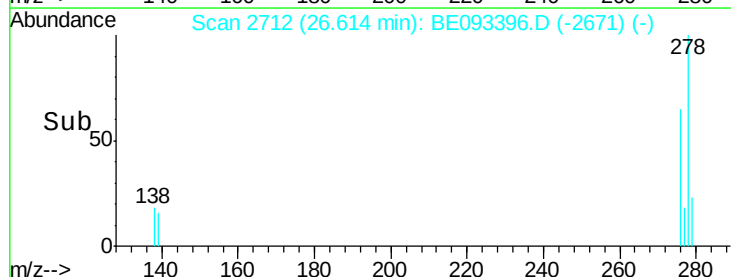
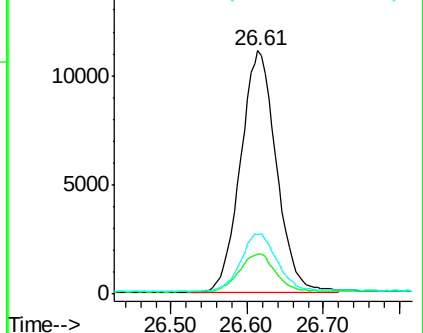
279 24.3 22.2 33.2

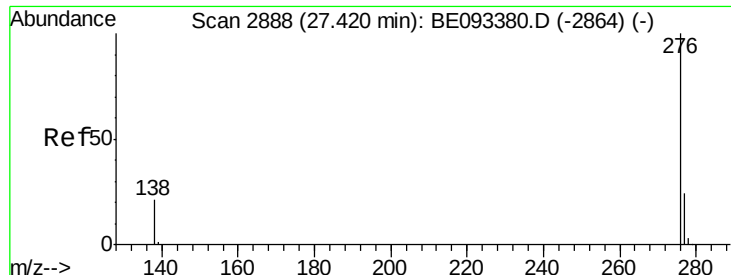


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.42 ng

RT: 27.40 min Scan# 2885

Delta R.T. -0.02 min

Lab File: BE093396.D

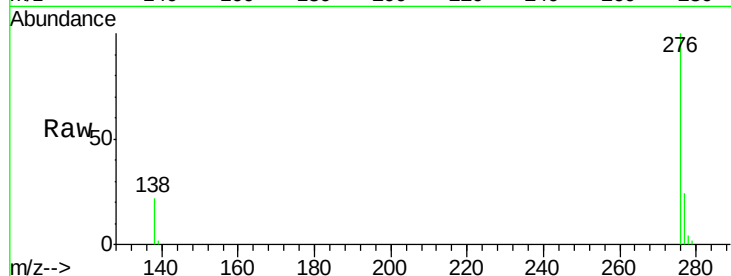
Acq: 1 Jul 2017 17:18

Instrument :

BNA_E

ClientSampleId :

MH-117N-20170627MS



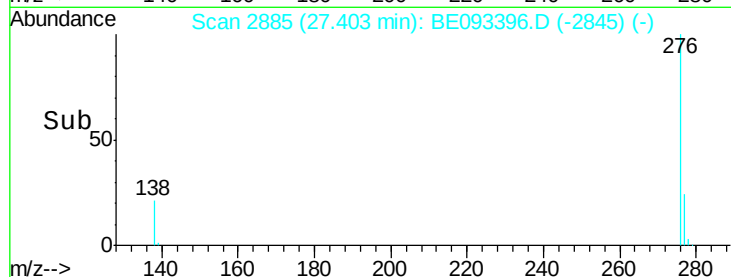
Tgt Ion: 276 Resp: 36270

Ion Ratio Lower Upper

276 100

277 24.4 21.2 31.8

138 21.8 24.5 36.7#



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

