

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088436.D
 Acq On : 31 Oct 2014 23:43
 Operator : TP/JJ
 Sample : F4325-20
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB20-1014

Quant Time: Nov 01 03:14:38 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	51369	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	192683	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	89235	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	158111	5.00	ng	0.00
16) Chrysene-d12	18.31	240	72291	5.00	ng	0.00
22) Perylene-d12	21.37	264	64808	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.78	82	610101	43.18	ng	0.01
8) 2-Fluorobiphenyl	9.99	172	711683	28.30	ng	0.00
18) Terphenyl-d14	16.09	244	410552	30.91	ng	0.02

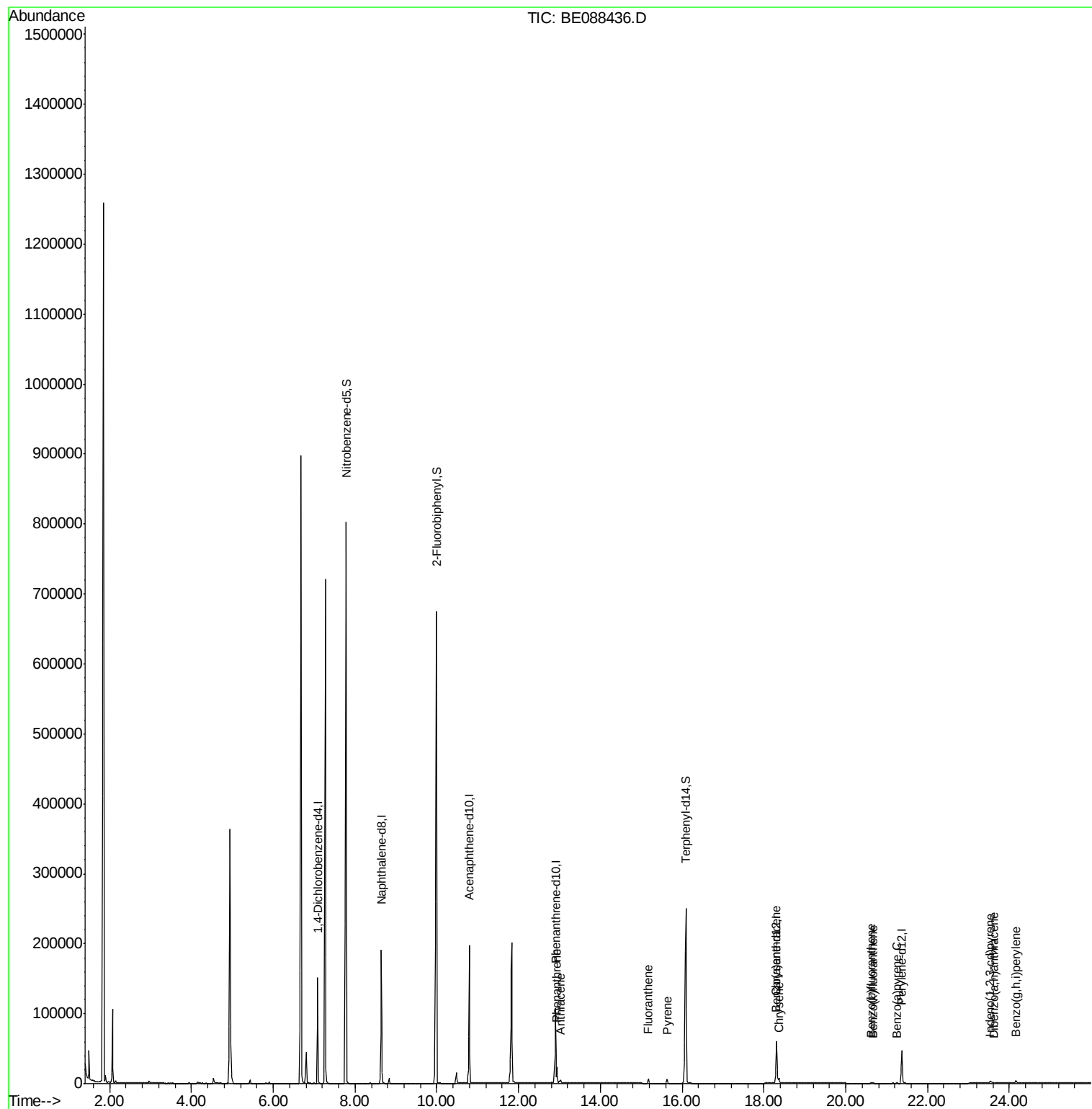
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Phenanthrene	12.94	178	29798	0.21	ng	# 88
14) Anthracene	13.02	178	4868	0.04	ng	# 72
15) Fluoranthene	15.17	202	6598	0.28	ng	100
17) Pyrene	15.63	202	5714	0.24	ng	97
19) Benzo(a)anthracene	18.29	228	10387	0.15	ng	94
20) Chrysene	18.36	228	10159	0.15	ng	# 94
21) Indeno(1,2,3-cd)pyrene	23.54	276	5330	0.09	ng	# 80
23) Benzo(b)fluoranthene	20.61	252	2762	0.19	ng	# 85
24) Benzo(k)fluoranthene	20.67	252	1125	0.07	ng	# 77
25) Benzo(a)pyrene	21.25	252	1968	0.14	ng	# 87
26) Dibenzo(a,h)anthracene	23.62	278	273	0.02	ng	# 33
27) Benzo(g,h,i)perylene	24.16	276	5951	0.10	ng	# 84

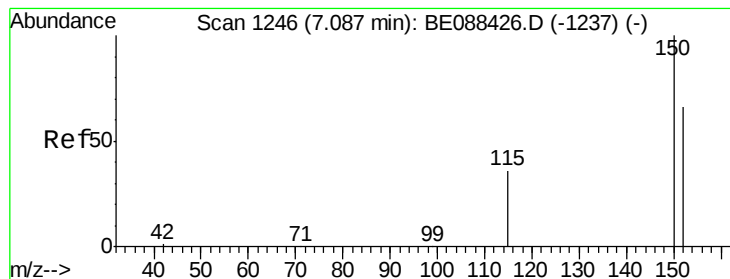
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

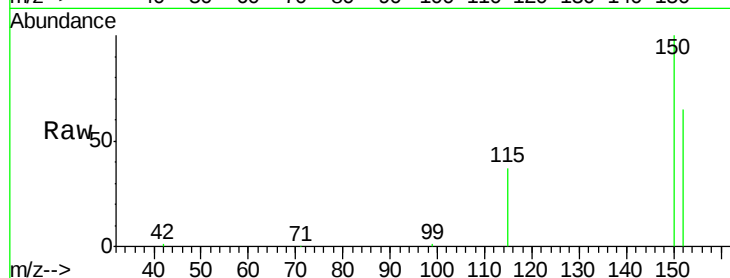
Tgt Ion:152 Resp: 51369

Ion Ratio Lower Upper

152 100

150 153.9 121.8 182.8

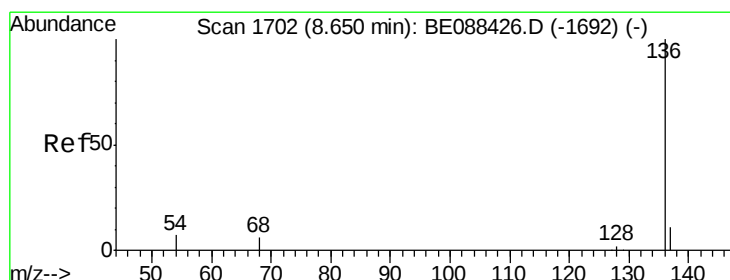
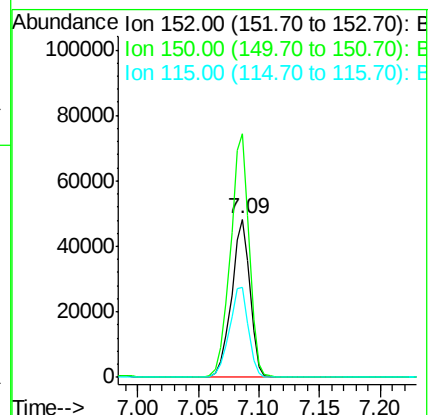
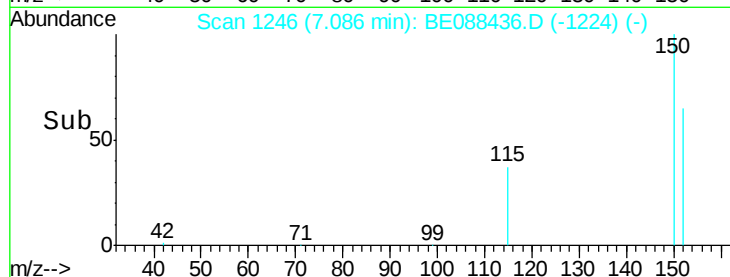
115 56.8 43.9 65.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

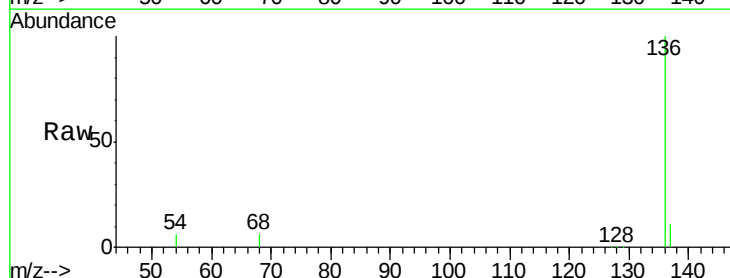
Tgt Ion:136 Resp: 192683

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

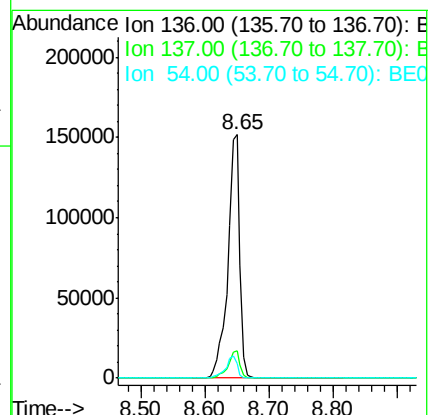
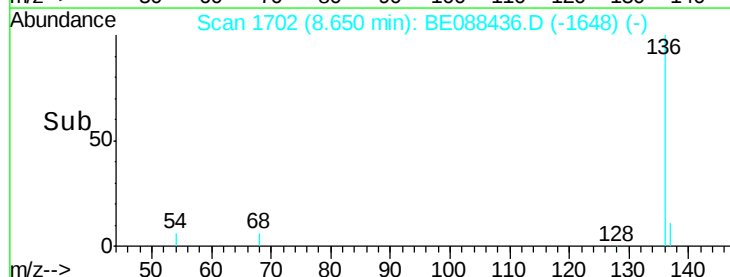
54 5.8 5.3 7.9

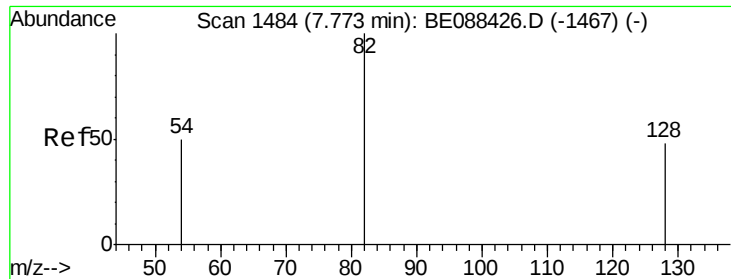


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 43.18 ng

RT: 7.78 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

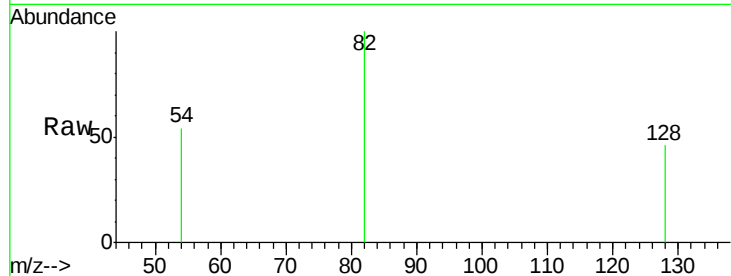
Tgt Ion: 82 Resp: 610101

Ion Ratio Lower Upper

82 100

128 46.4 38.4 57.6

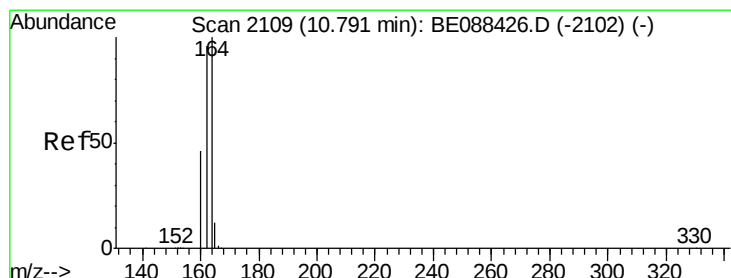
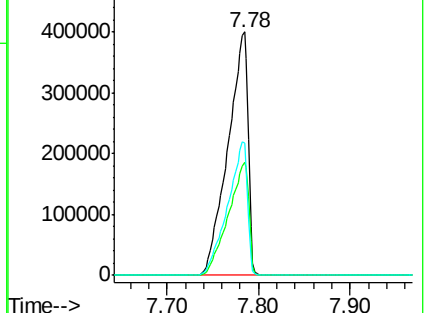
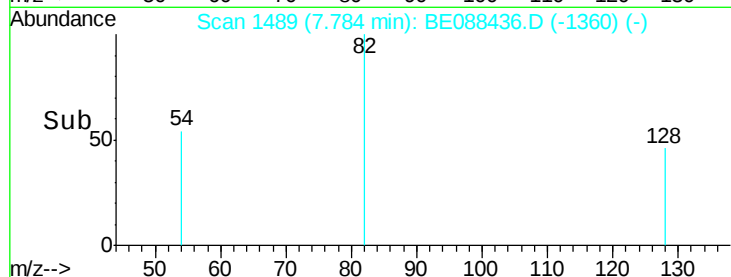
54 54.3 40.2 60.2



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



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

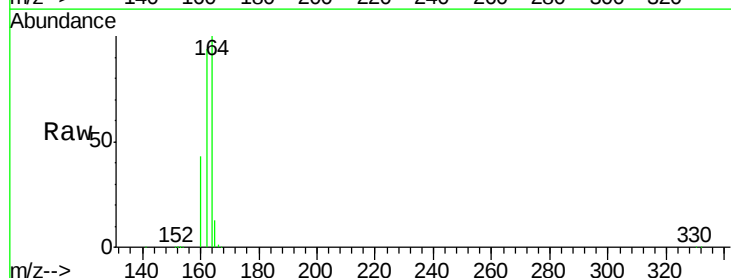
Tgt Ion: 164 Resp: 89235

Ion Ratio Lower Upper

164 100

162 94.1 77.0 115.4

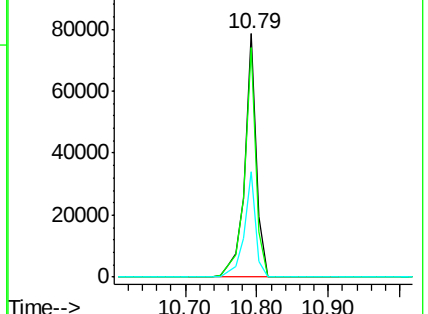
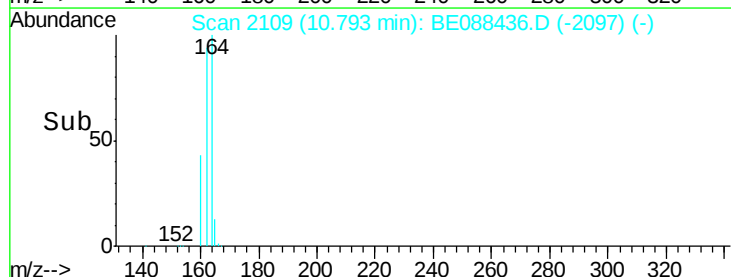
160 43.4 36.8 55.2

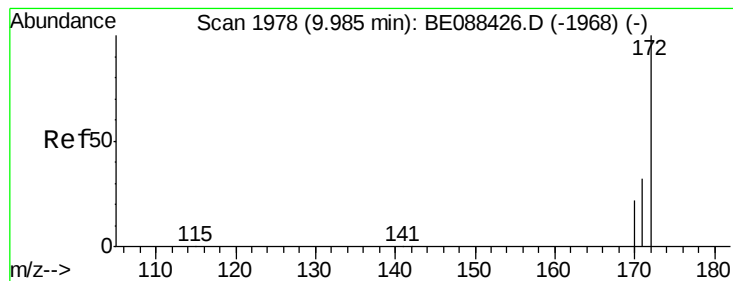


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 28.30 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

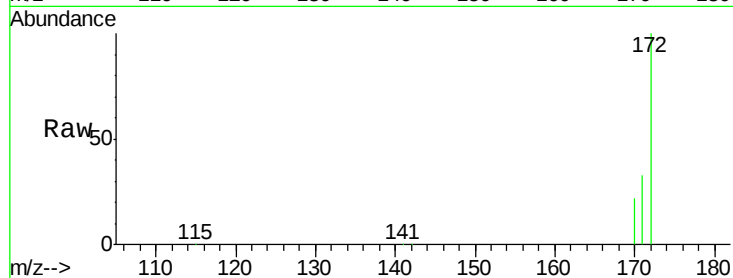
Tgt Ion:172 Resp: 711683

Ion Ratio Lower Upper

172 100

171 32.5 26.0 39.0

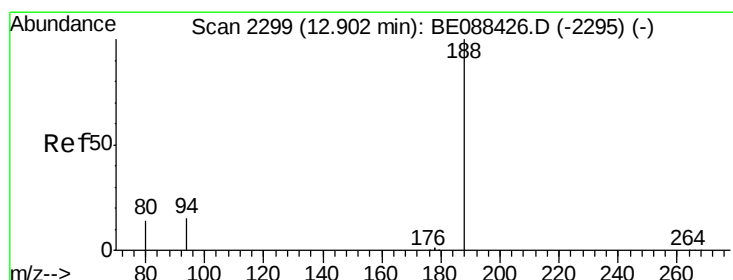
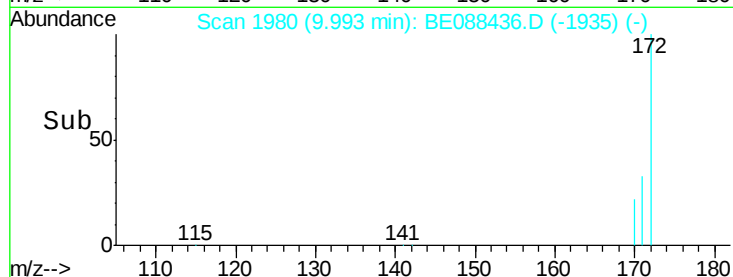
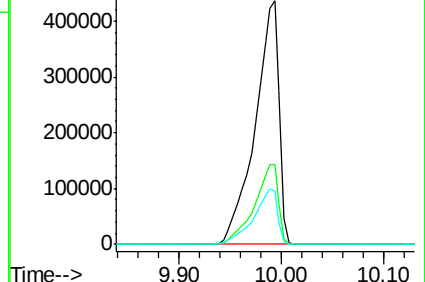
170 21.8 17.6 26.4



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.90 min Scan# 2299

Delta R.T. 0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

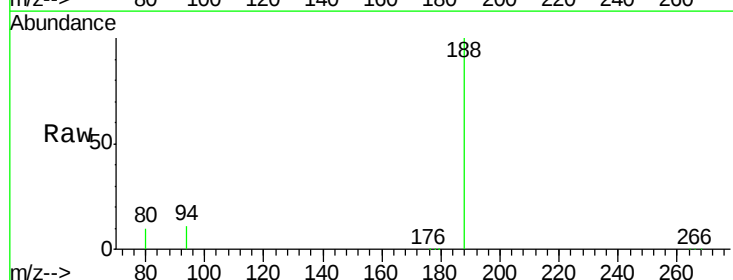
Tgt Ion:188 Resp: 158111

Ion Ratio Lower Upper

188 100

94 11.5 11.8 17.8#

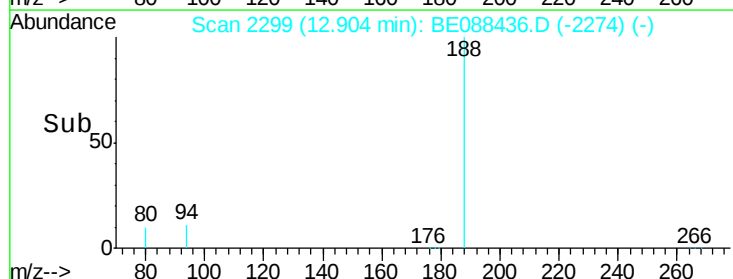
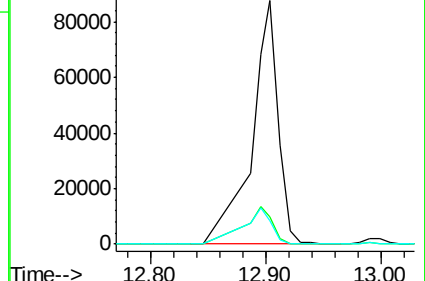
80 9.9 10.9 16.3#

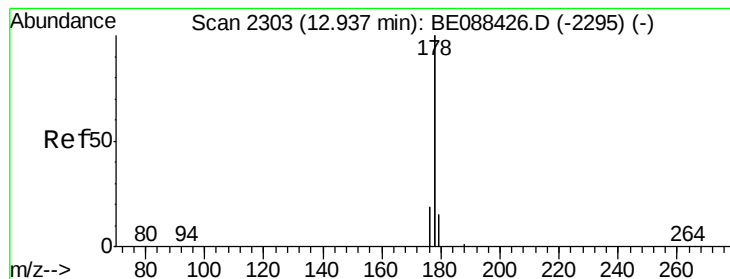


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.21 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

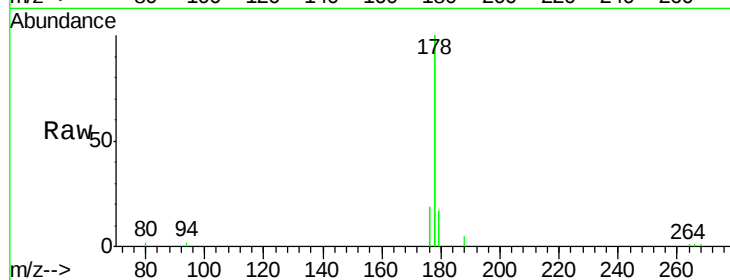
Tgt Ion:178 Resp: 29798

Ion Ratio Lower Upper

178 100

176 22.9 15.4 23.2

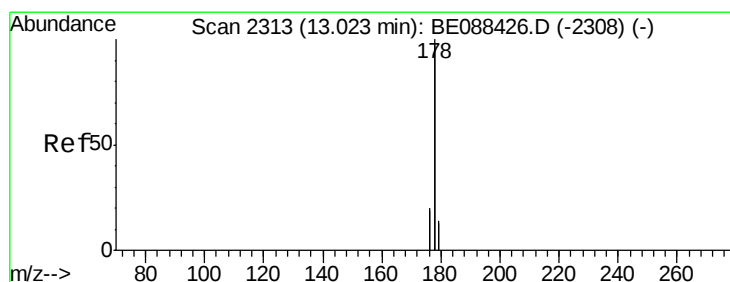
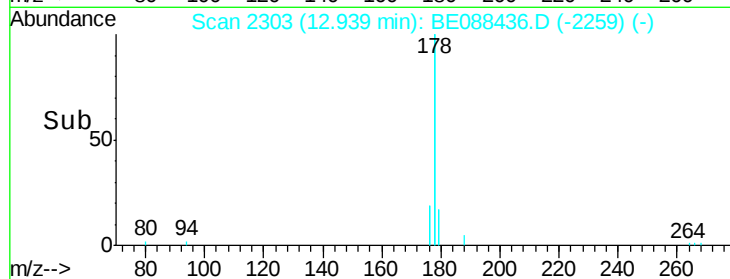
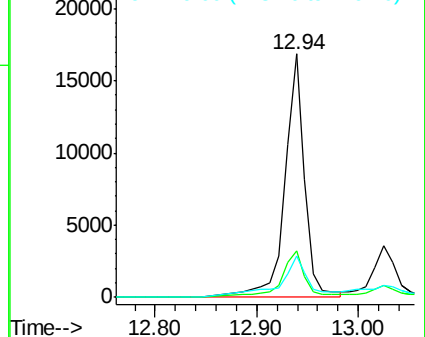
179 23.4 12.8 19.2#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.04 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

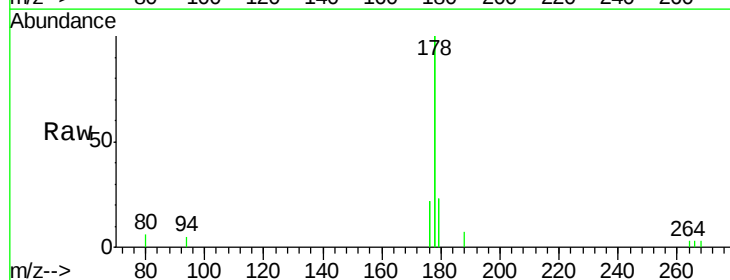
Tgt Ion:178 Resp: 4868

Ion Ratio Lower Upper

178 100

176 22.2 15.0 22.4

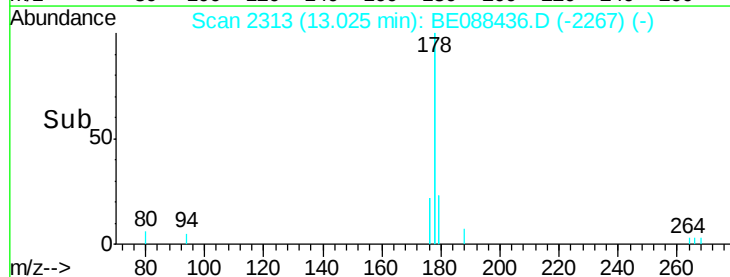
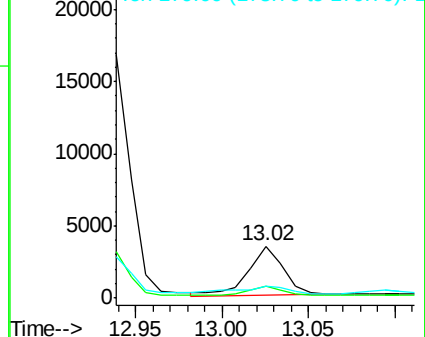
179 37.3 12.5 18.7#

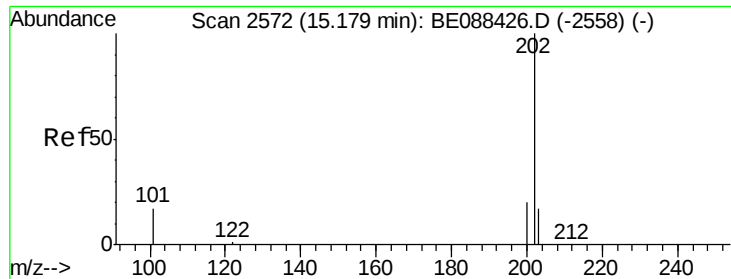


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.28 ng

RT: 15.17 min Scan# 2571

Delta R.T. -0.01 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

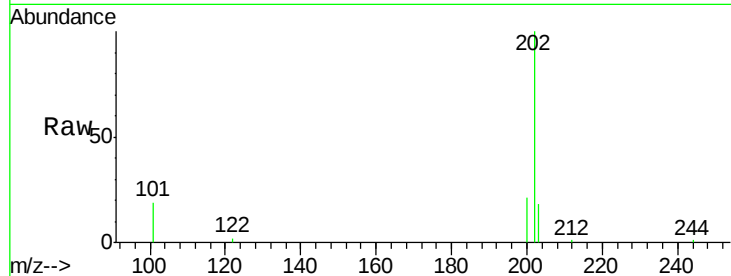
Tgt Ion:202 Resp: 6598

Ion Ratio Lower Upper

202 100

101 17.9 14.3 21.5

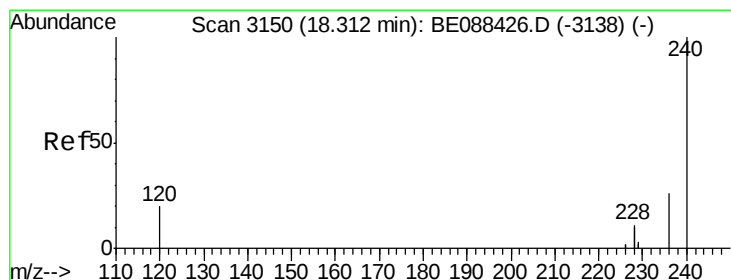
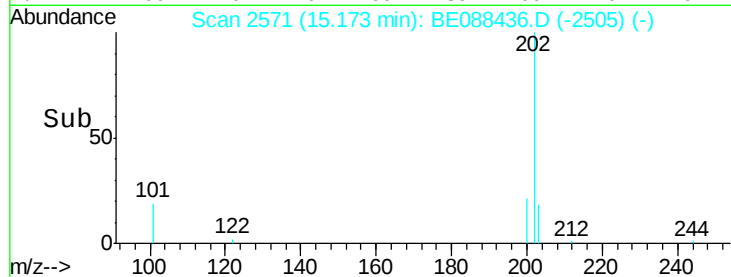
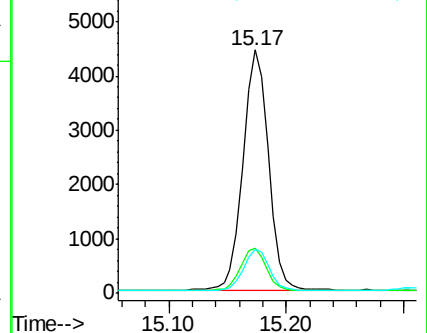
203 17.3 13.6 20.4



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.31 min Scan# 3149

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

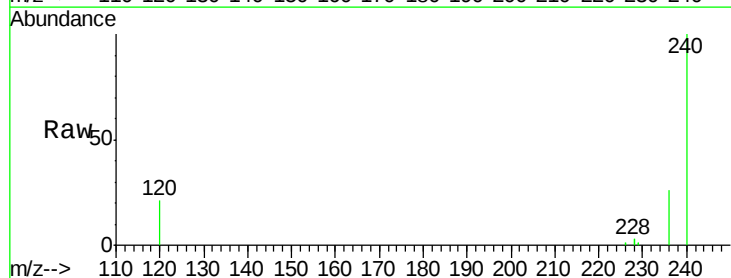
Tgt Ion:240 Resp: 72291

Ion Ratio Lower Upper

240 100

120 21.1 16.4 24.6

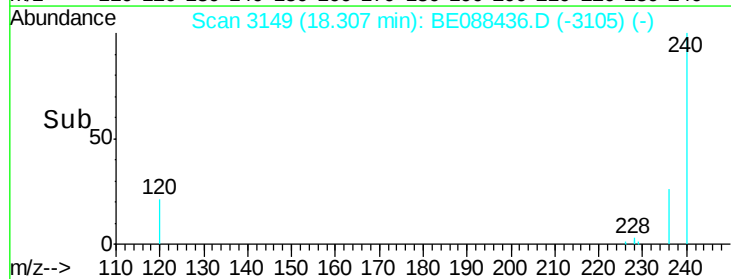
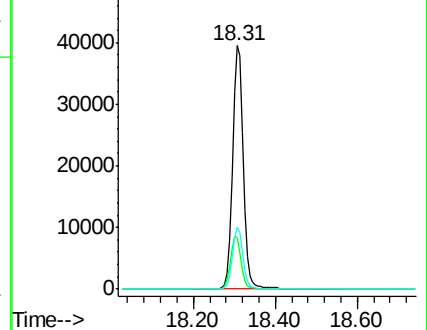
236 25.6 20.5 30.7

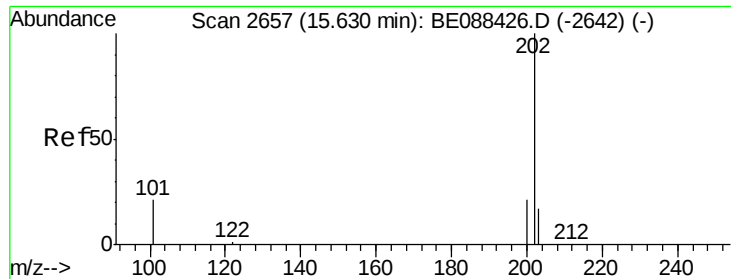


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

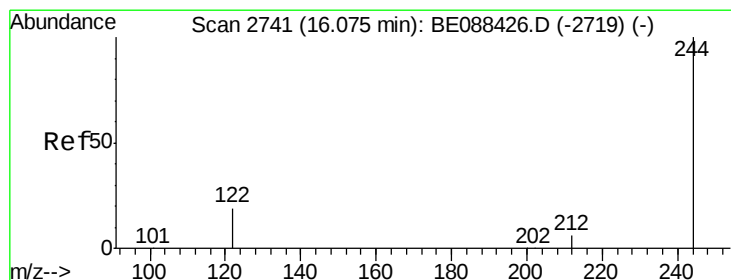
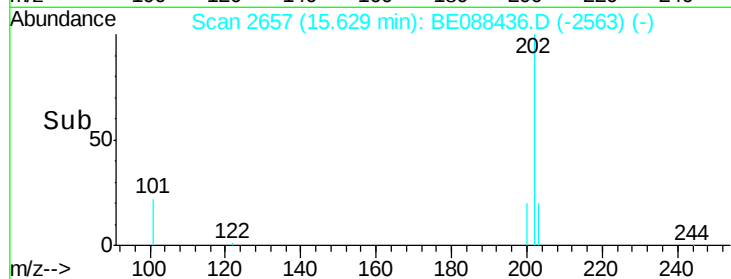
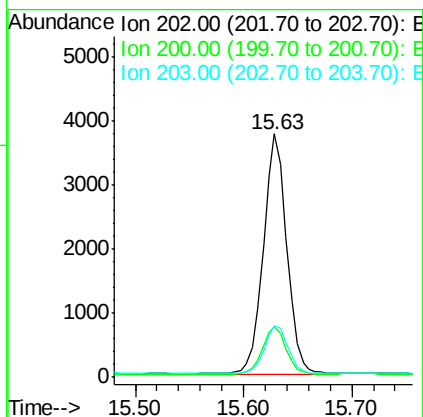
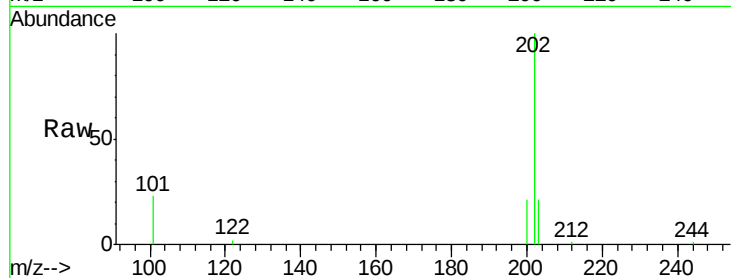




#17
 Pyrene
 Concen: 0.24 ng
 RT: 15.63 min Scan# 2657
 Delta R.T. -0.00 min
 Lab File: BE088436.D
 Acq: 31 Oct 2014 23:43

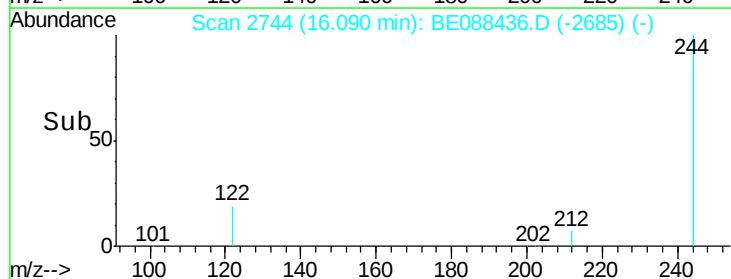
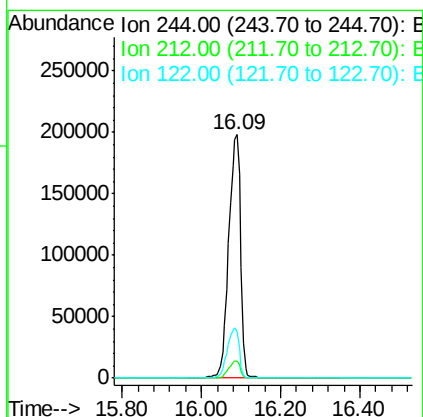
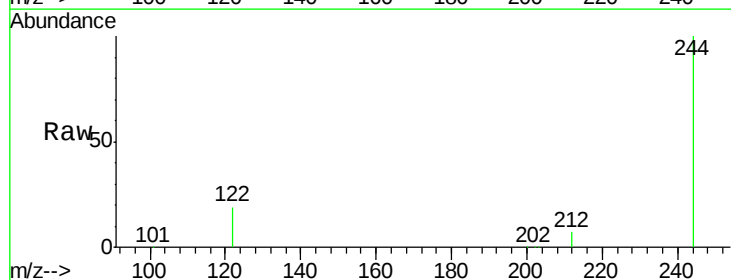
Instrument :
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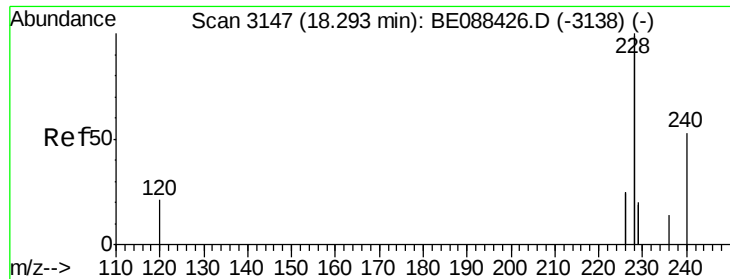
Tgt Ion: 202 Resp: 5714
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 20.5 13.8 20.8



#18
 Terphenyl-d14
 Concen: 30.91 ng
 RT: 16.09 min Scan# 2744
 Delta R.T. 0.02 min
 Lab File: BE088436.D
 Acq: 31 Oct 2014 23:43

Tgt Ion: 244 Resp: 410552
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 19.0 15.6 23.4





#19

Benzo(a)anthracene

Concen: 0.15 ng

RT: 18.29 min Scan# 3146

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

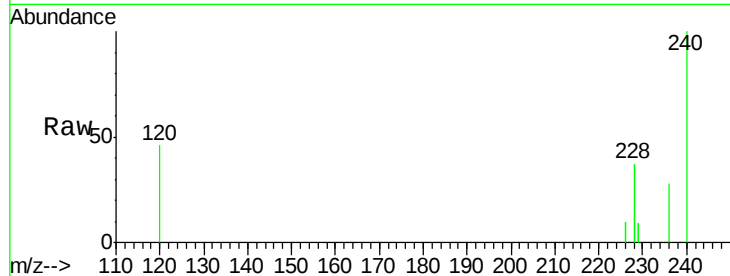
Tgt Ion:228 Resp: 10387

Ion Ratio Lower Upper

228 100

226 27.6 19.8 29.6

229 23.2 16.0 24.0

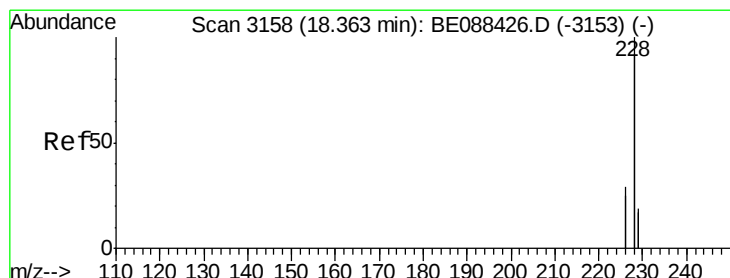
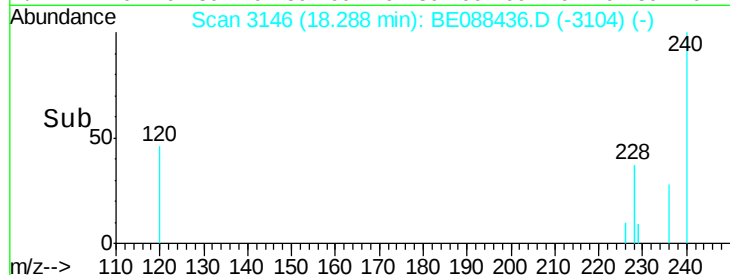
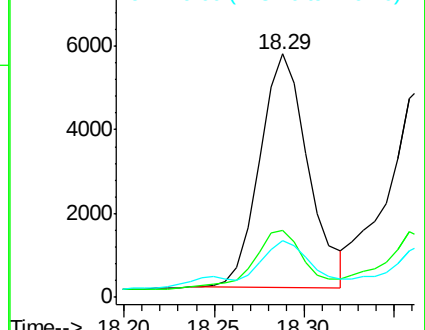


Abundance

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



#20

Chrysene

Concen: 0.15 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

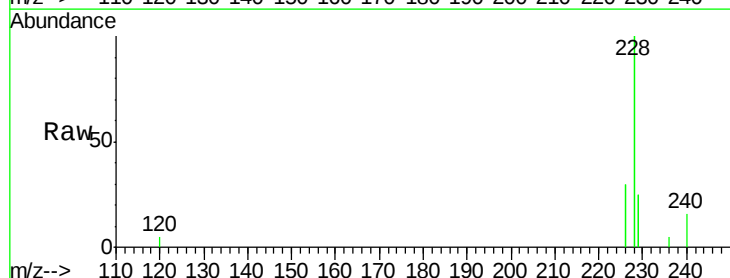
Tgt Ion:228 Resp: 10159

Ion Ratio Lower Upper

228 100

226 29.9 23.6 35.4

229 25.2 15.4 23.2#

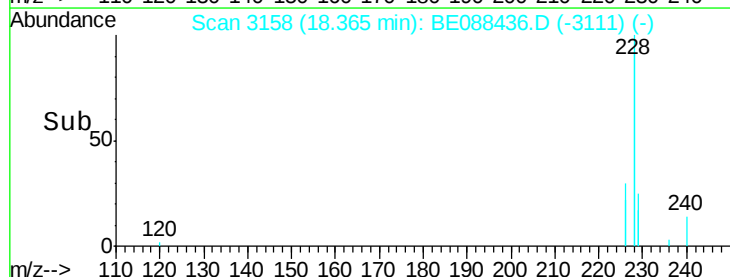
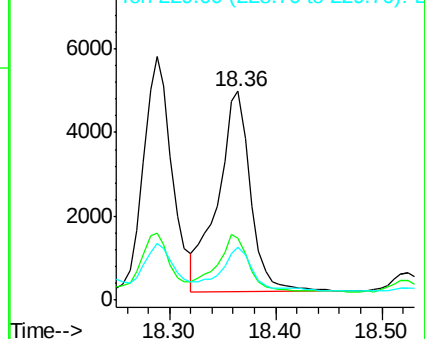


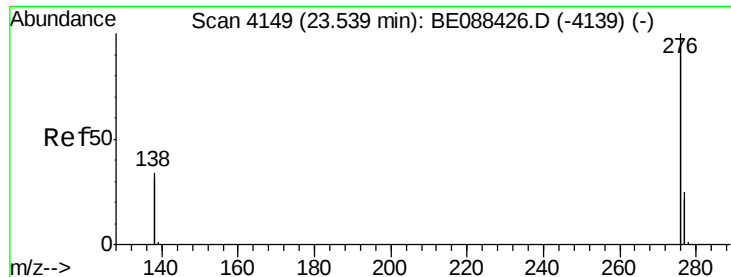
Abundance

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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.09 ng

RT: 23.54 min Scan# 4149

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

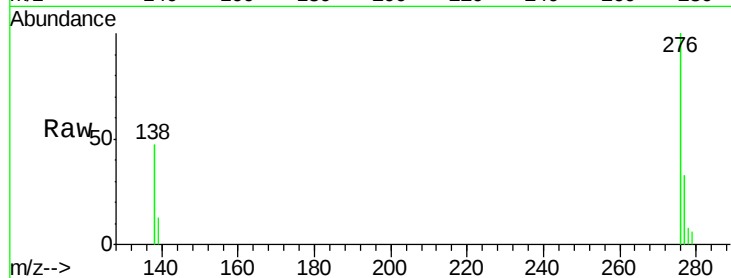
Tgt Ion:276 Resp: 5330

Ion Ratio Lower Upper

276 100

138 34.8 20.2 30.2#

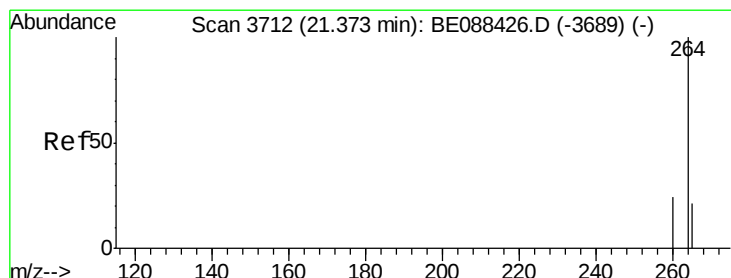
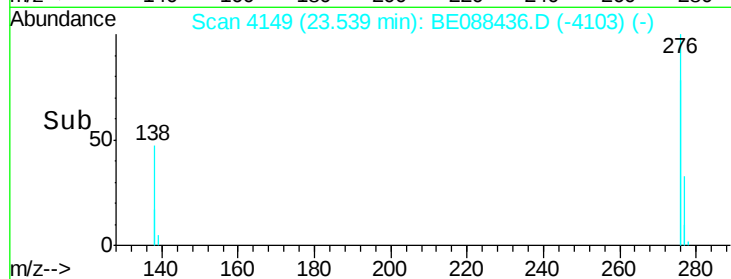
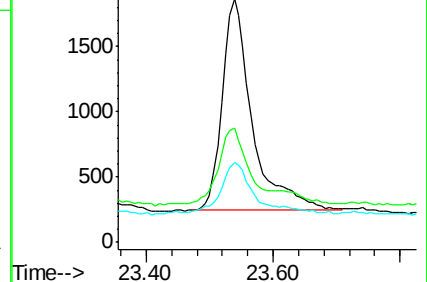
277 27.6 14.8 22.2#



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.37 min Scan# 3711

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

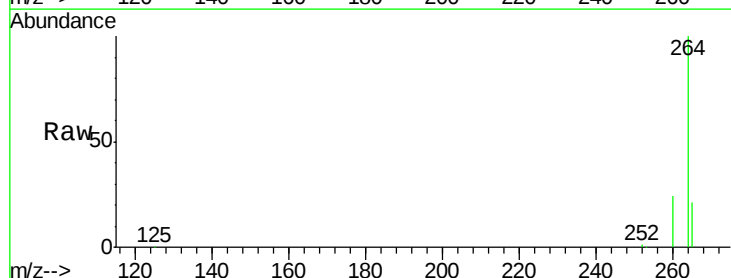
Tgt Ion:264 Resp: 64808

Ion Ratio Lower Upper

264 100

260 23.9 18.9 28.3

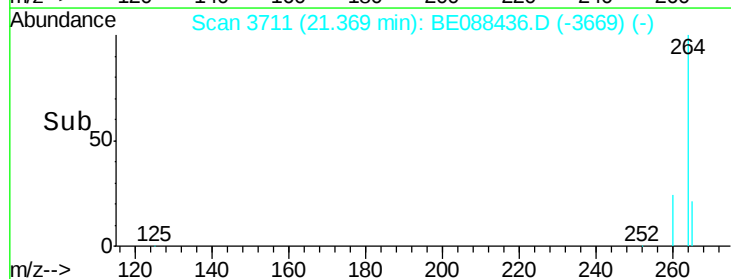
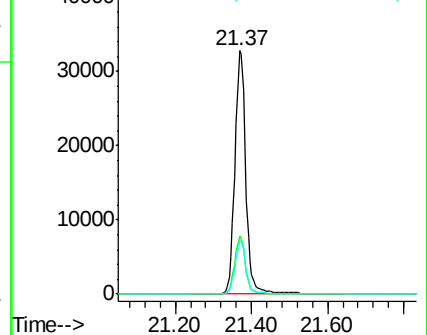
265 21.5 17.2 25.8

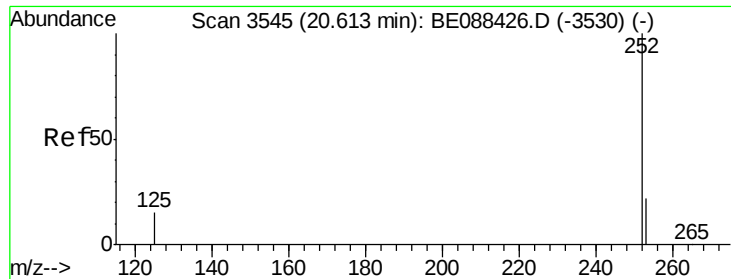


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.19 ng

RT: 20.61 min Scan# 3545

Delta R.T. 0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

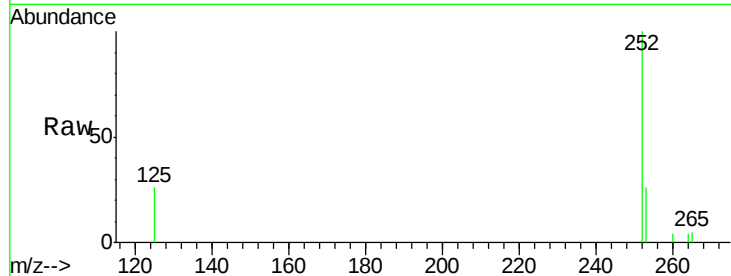
Tgt Ion:252 Resp: 2762

Ion Ratio Lower Upper

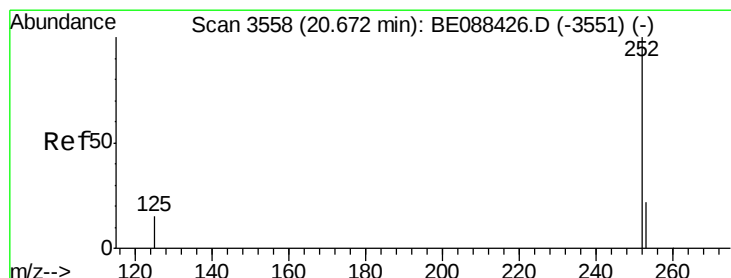
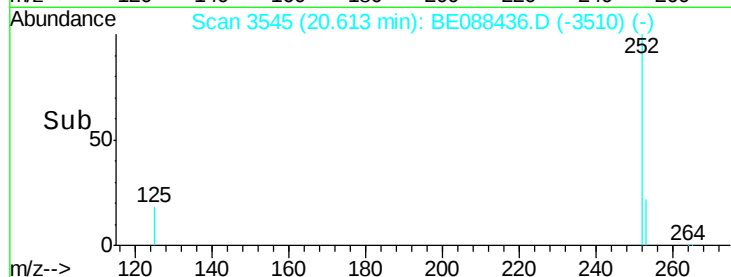
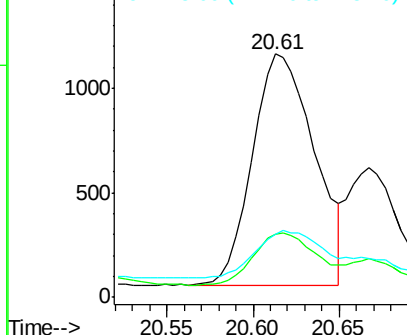
252 100

253 25.9 17.8 26.8

125 25.7 12.3 18.5#



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



#24

Benzo(k)fluoranthene

Concen: 0.07 ng

RT: 20.67 min Scan# 3557

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

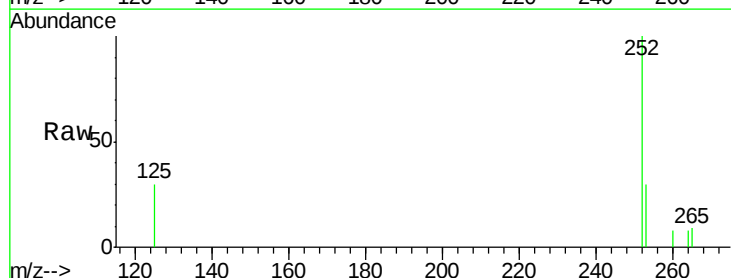
Tgt Ion:252 Resp: 1125

Ion Ratio Lower Upper

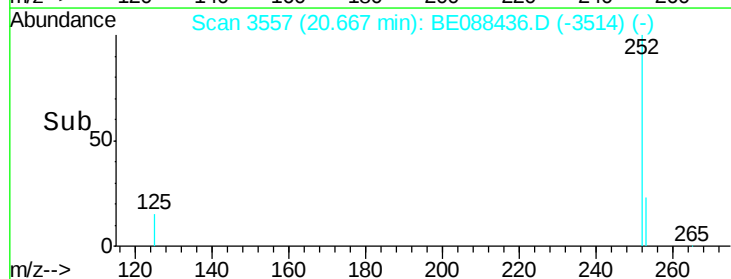
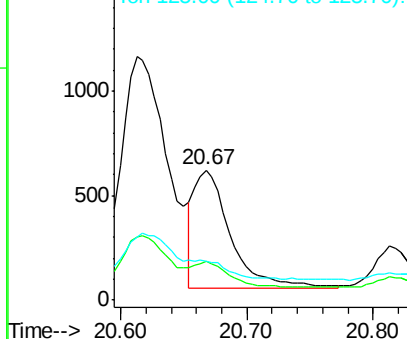
252 100

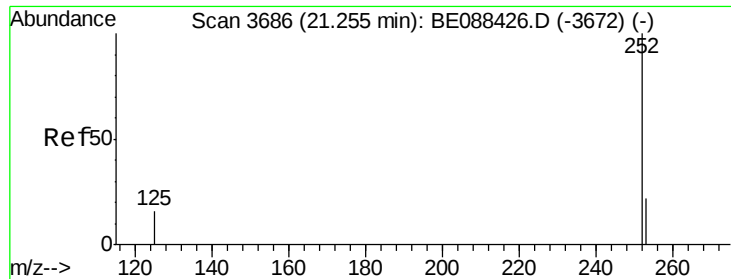
253 30.0 17.8 26.8#

125 29.6 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





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 21.25 min Scan# 3685

Delta R.T. -0.00 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014

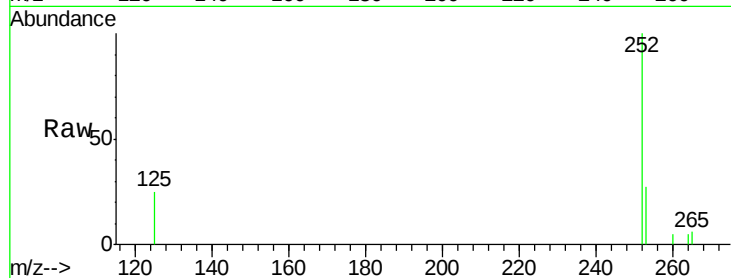
Tgt Ion: 252 Resp: 1968

Ion Ratio Lower Upper

252 100

253 27.3 18.2 27.4

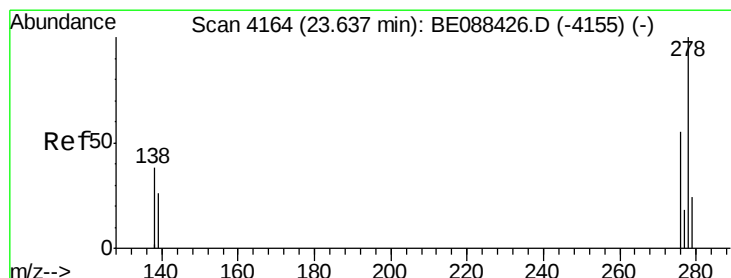
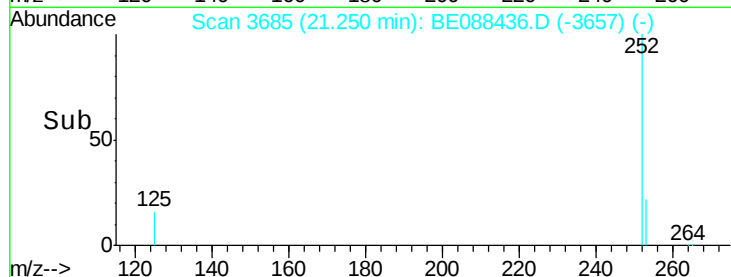
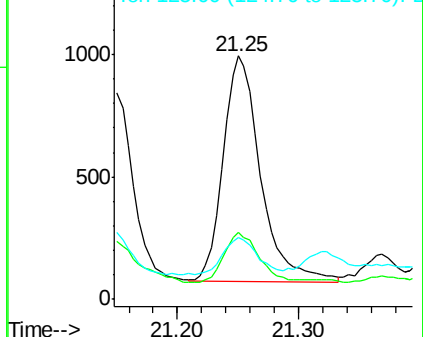
125 25.3 13.7 20.5#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 23.62 min Scan# 4162

Delta R.T. -0.01 min

Lab File: BE088436.D

Acq: 31 Oct 2014 23:43

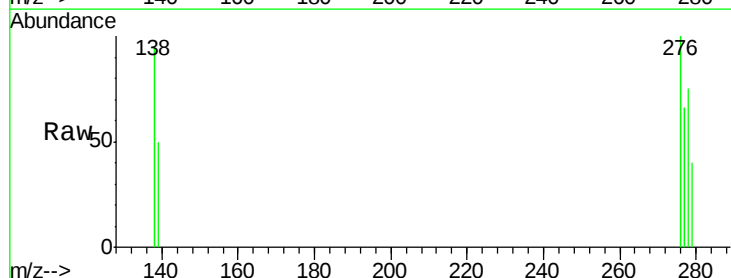
Tgt Ion: 278 Resp: 273

Ion Ratio Lower Upper

278 100

139 66.4 22.1 33.1#

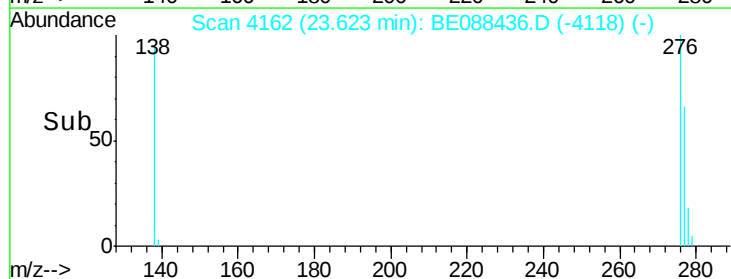
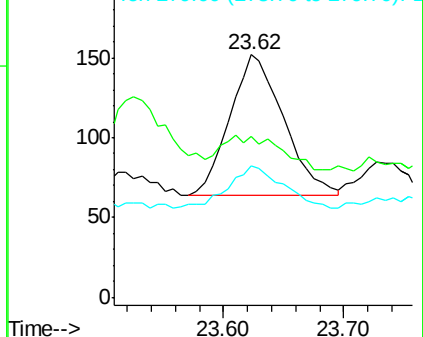
279 53.9 19.7 29.5#

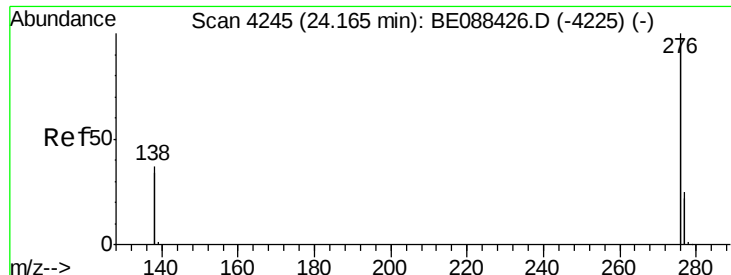


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.10 ng

RT: 24.16 min Scan# 4245

Delta R.T. -0.00 min

Lab File: BE088436.D

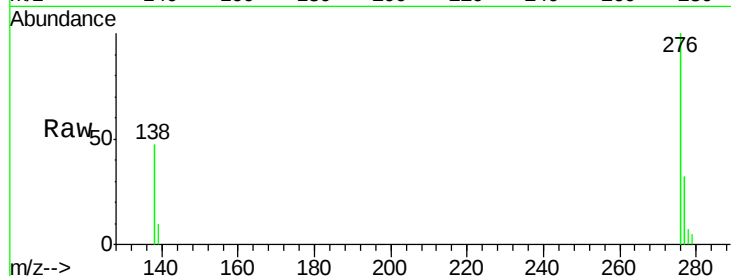
Acq: 31 Oct 2014 23:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB20-1014



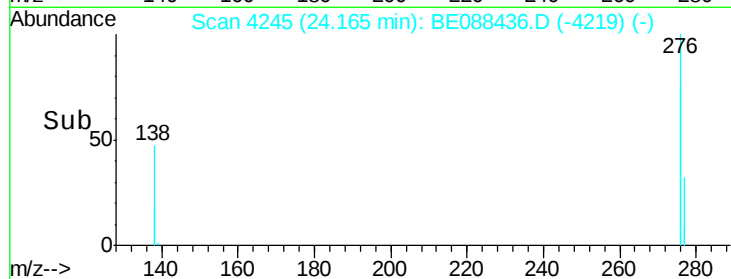
Tgt Ion: 276 Resp: 5951

Ion Ratio Lower Upper

276 100

277 31.6 19.8 29.6#

138 47.4 29.3 43.9#



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

