

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102014\
 Data File : BE088132.D
 Acq On : 21 Oct 2014 9:05
 Operator : TP/JJ
 Sample : F4303-19RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-EB02-101414-SO

Quant Time: Oct 21 14:57:19 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

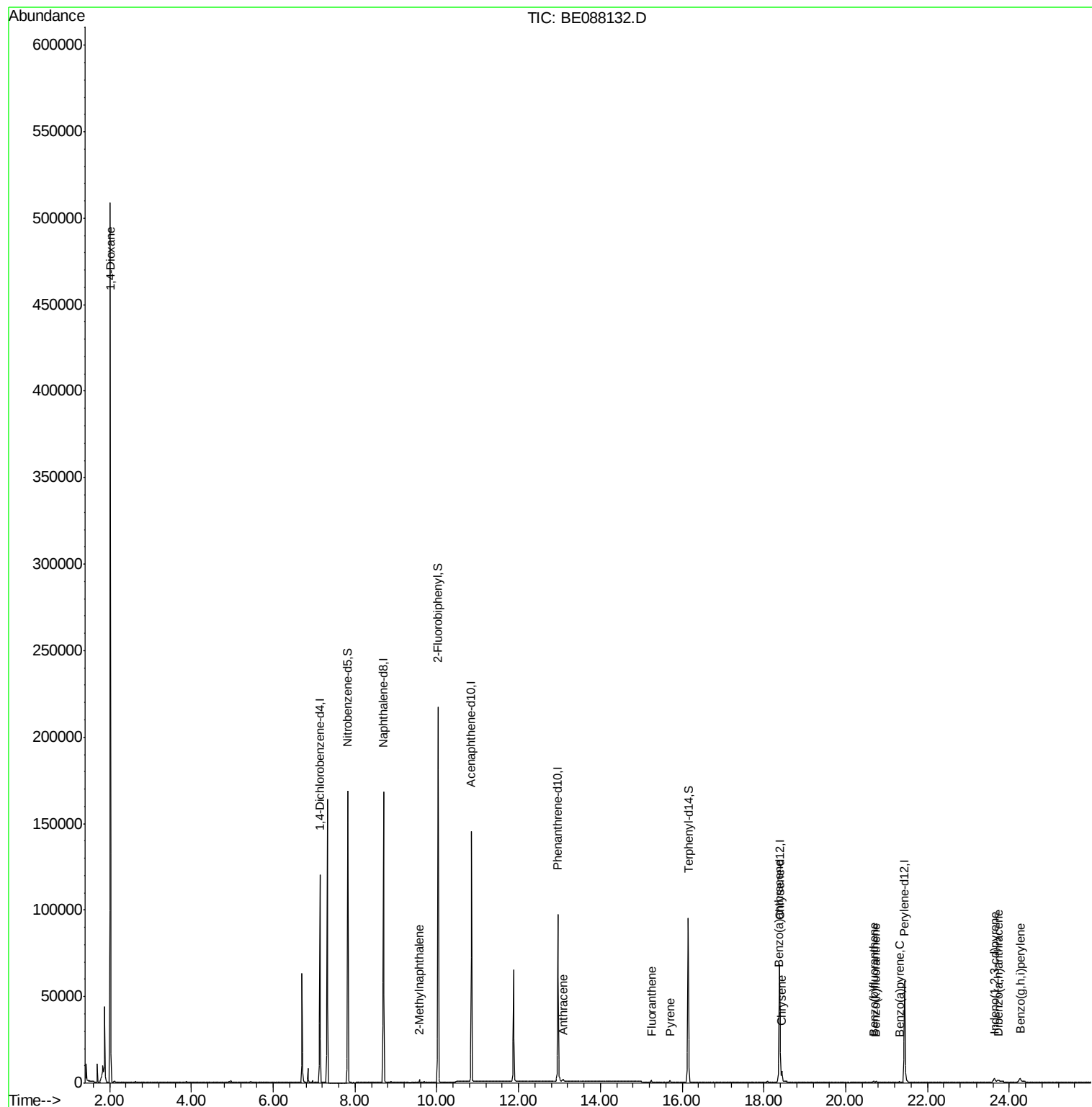
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	39755	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	146475	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	64650	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	117671	5.00	ng	0.00
16) Chrysene-d12	18.38	240	82401	5.00	ng	0.00
22) Perylene-d12	21.44	264	78981	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	86874	8.23	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	141449	7.92	ng	0.00
18) Terphenyl-d14	16.15	244	121519	9.16	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.02	88	16301	2.85	ng	Qvalue # 1
6) 2-Methylnaphthalene	9.58	142	915	0.05	ng	# 95
13) Phenanthrene	13.00	178	4279	Below Cal		# 65
14) Anthracene	13.09	178	1990	0.02	ng	# 89
15) Fluoranthene	15.25	202	1614	0.07	ng	# 98
17) Pyrene	15.70	202	1742	0.08	ng	# 99
19) Benzo(a)anthracene	18.36	228	7214	0.10	ng	# 93
20) Chrysene	18.44	228	7796	0.11	ng	# 94
21) Indeno(1,2,3-cd)pyrene	23.63	276	4067	0.05	ng	# 82
23) Benzo(b)fluoranthene	20.68	252	1404	0.07	ng	# 89
24) Benzo(k)fluoranthene	20.74	252	1526	0.08	ng	# 86
25) Benzo(a)pyrene	21.32	252	1004	0.06	ng	# 80
26) Dibenzo(a,h)anthracene	23.74	278	1006	0.06	ng	# 76
27) Benzo(g,h,i)perylene	24.26	276	4918	0.07	ng	# 83

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088132.D

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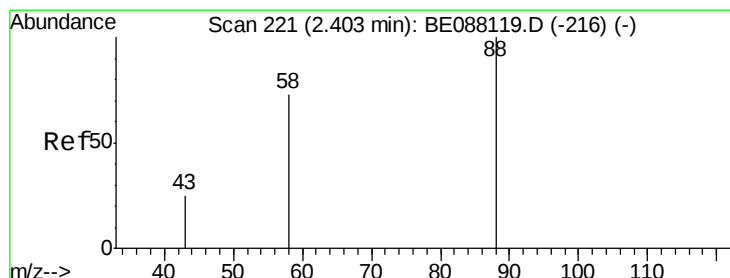
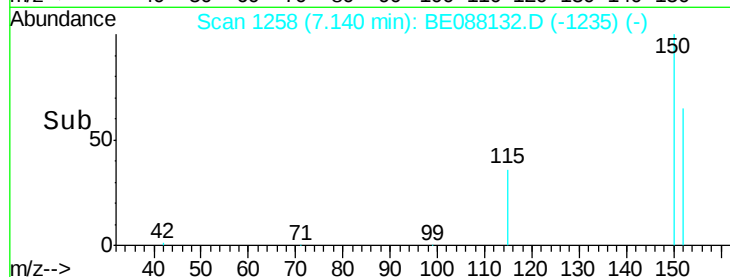
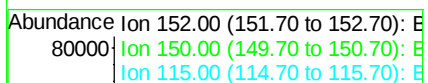
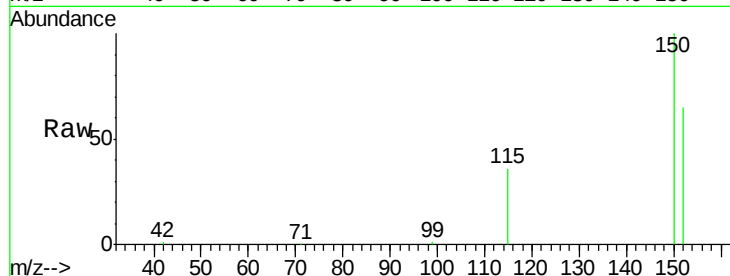
Tgt Ion:152 Resp: 39755

Ion Ratio Lower Upper

152 100

150 153.1 129.2 193.8

115 55.6 49.3 73.9



#2

1,4-Dioxane

Concen: 2.85 ng

RT: 2.02 min Scan# 137

Delta R.T. -0.38 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

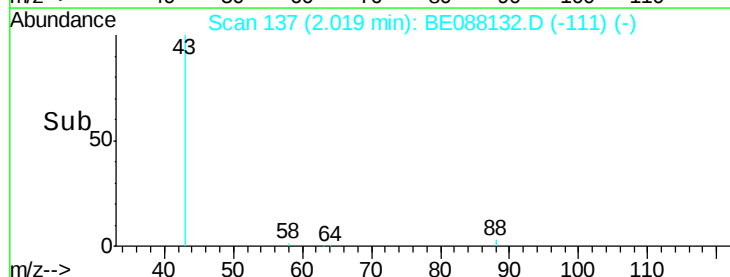
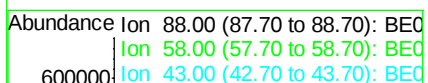
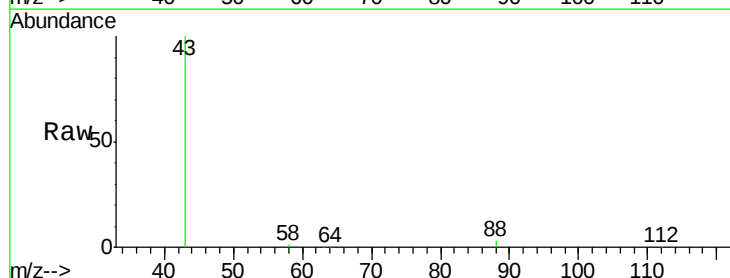
Tgt Ion: 88 Resp: 16301

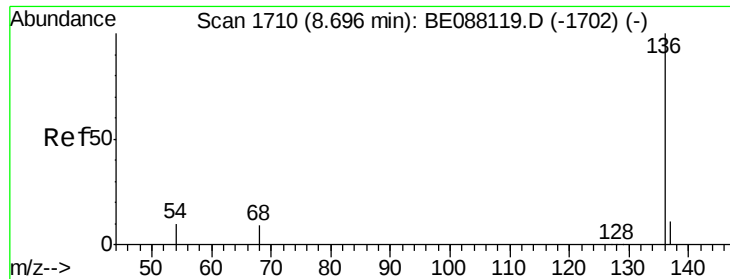
Ion Ratio Lower Upper

88 100

58 28.5 59.5 89.3#

43 2998.0 21.2 31.8#





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

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YS19-EB02-101414-SO

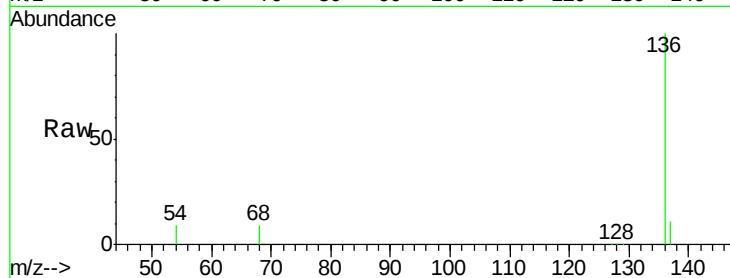
Tgt Ion: 136 Resp: 146475

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

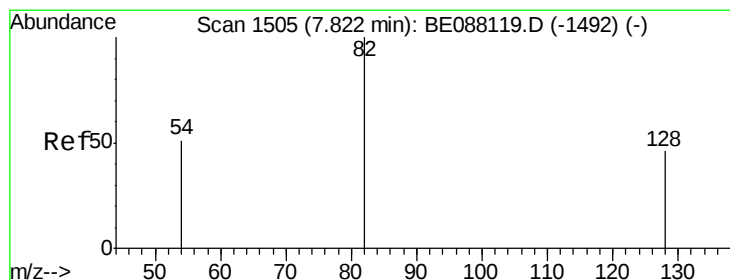
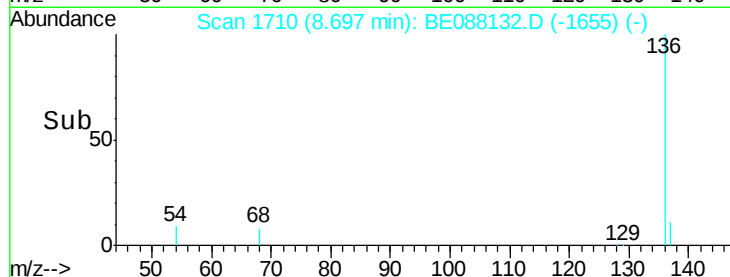
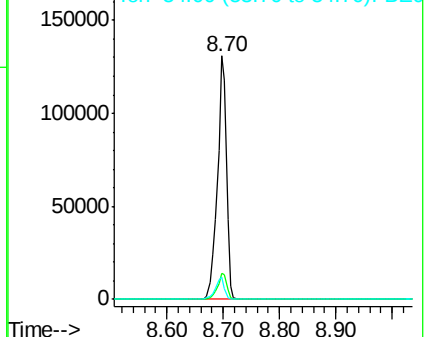
54 9.2 7.7 11.5



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: 8.23 ng

RT: 7.83 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

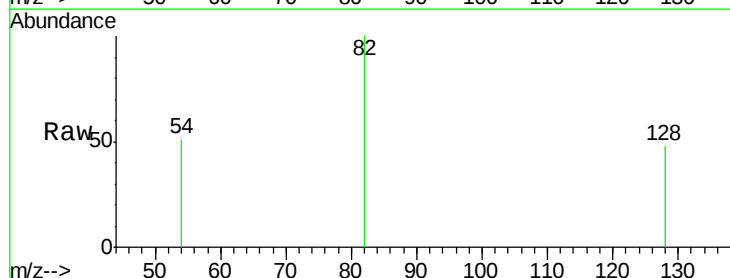
Tgt Ion: 82 Resp: 86874

Ion Ratio Lower Upper

82 100

128 47.7 37.1 55.7

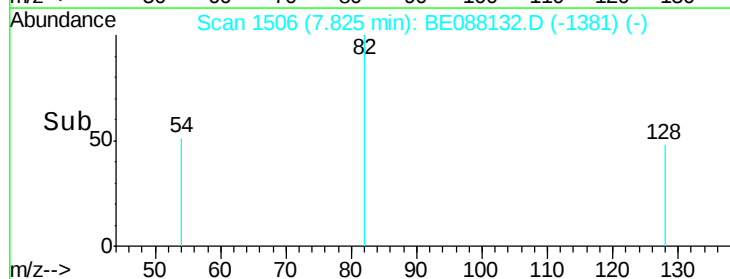
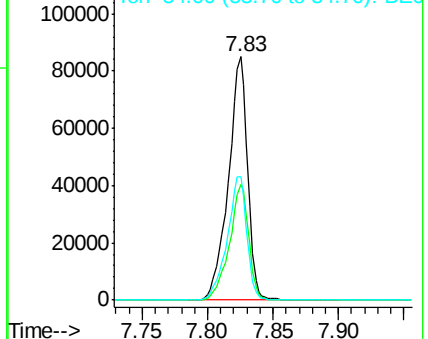
54 50.9 41.1 61.7

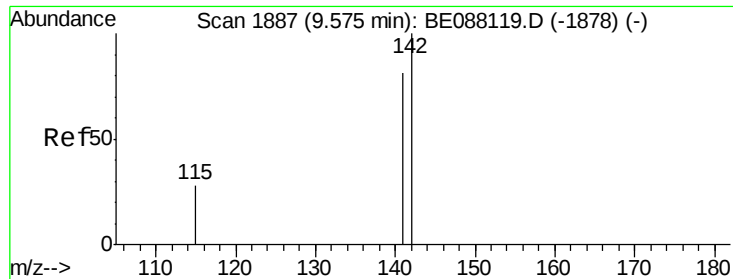


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

2-Methylnaphthalene

Concen: 0.05 ng

RT: 9.58 min Scan# 1887

Delta R.T. 0.00 min

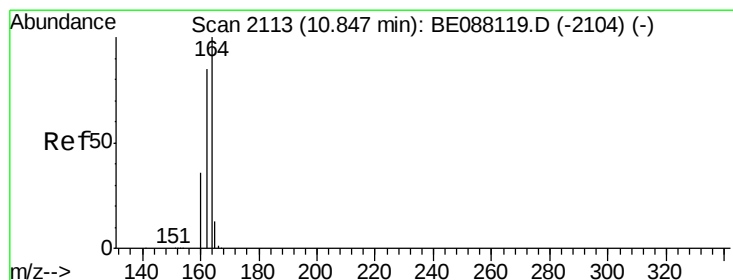
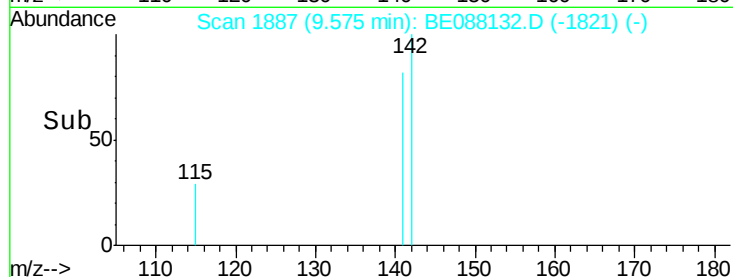
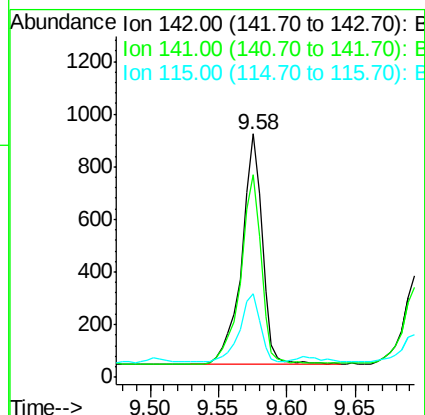
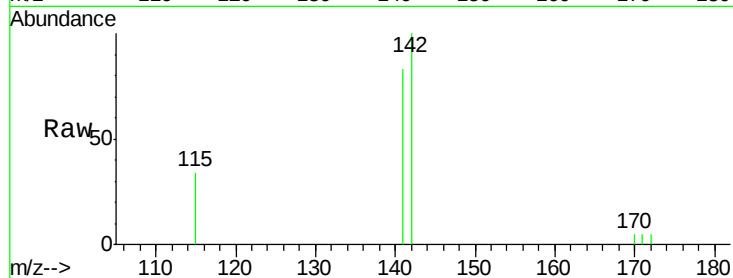
Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

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BNA_E
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Tgt Ion:142 Resp: 915

Ion	Ratio	Lower	Upper
142	100		
141	83.1	64.6	97.0
115	34.3	22.6	34.0#



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2113

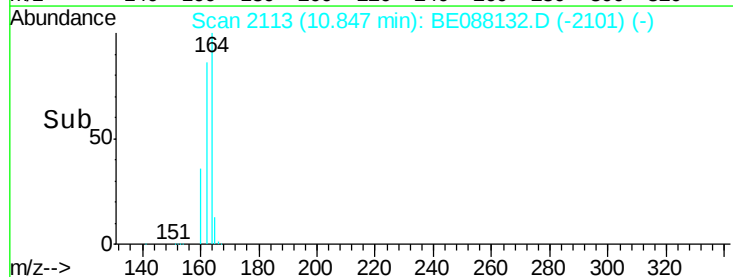
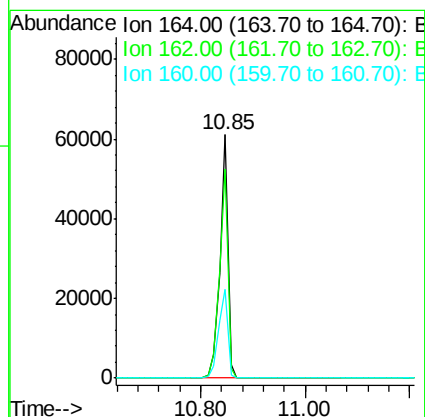
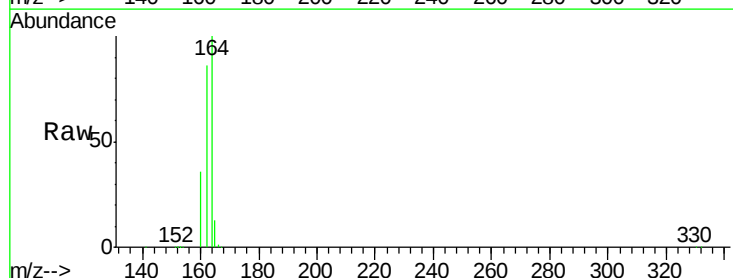
Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Tgt Ion:164 Resp: 64650

Ion	Ratio	Lower	Upper
164	100		
162	85.7	68.3	102.5
160	36.4	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 7.92 ng

RT: 10.03 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101414-SO

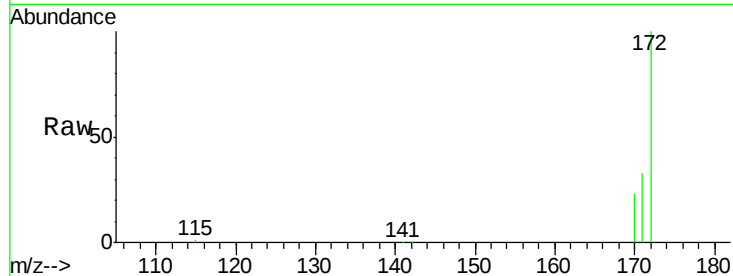
Tgt Ion:172 Resp: 141449

Ion Ratio Lower Upper

172 100

171 32.7 25.4 38.2

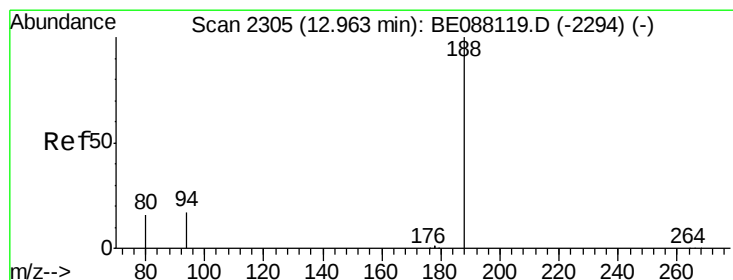
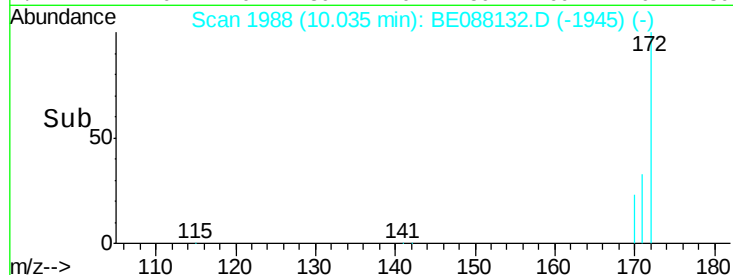
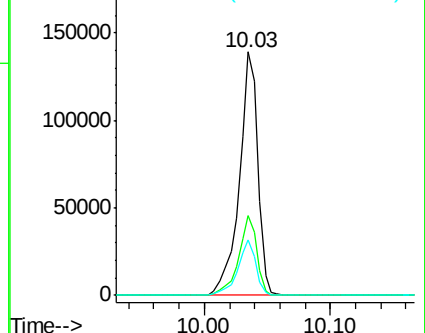
170 22.8 17.4 26.2



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: 12.96 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

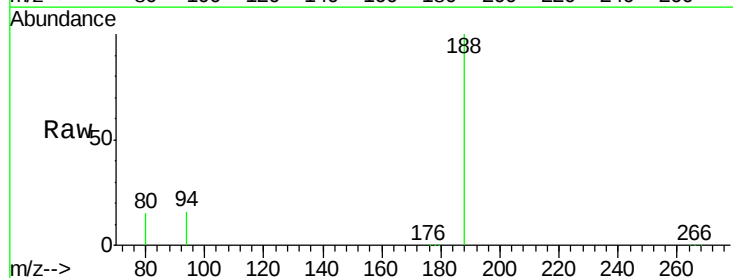
Tgt Ion:188 Resp: 117671

Ion Ratio Lower Upper

188 100

94 15.8 13.9 20.9

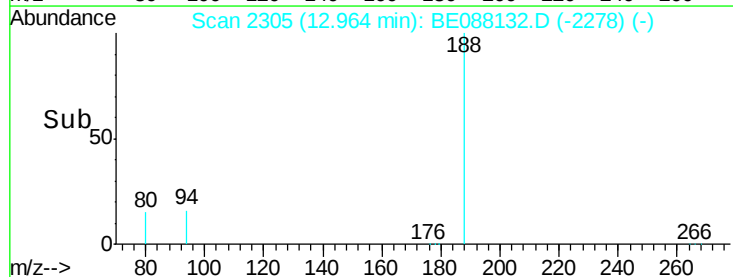
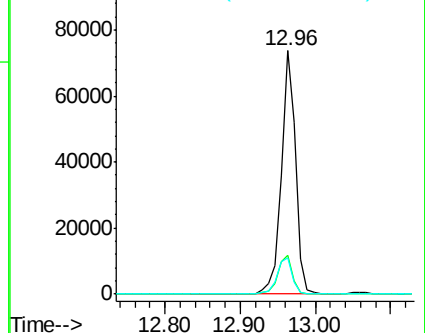
80 14.8 12.9 19.3

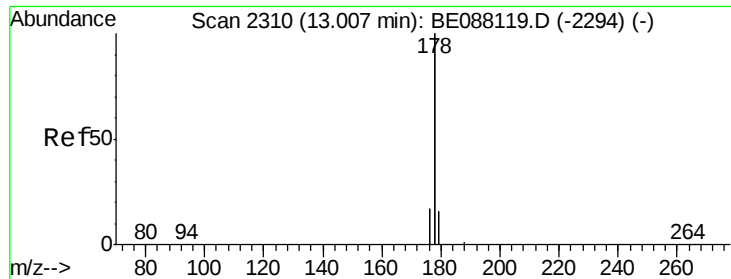


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: Below Cal

RT: 13.00 min Scan# 2309

Delta R.T. -0.01 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

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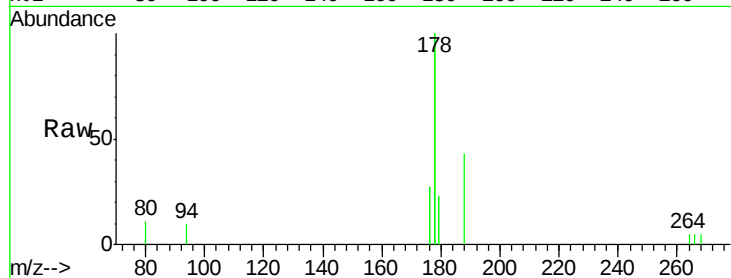
Tgt Ion:178 Resp: 4279

Ion Ratio Lower Upper

178 100

176 28.3 12.5 18.7#

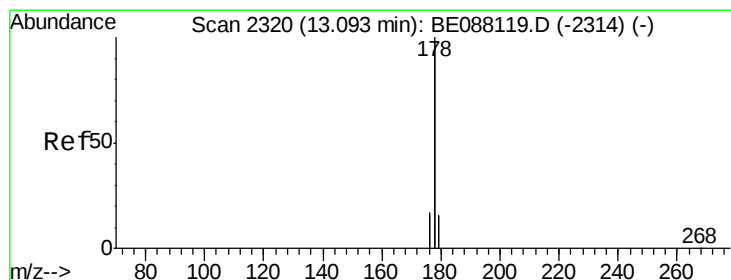
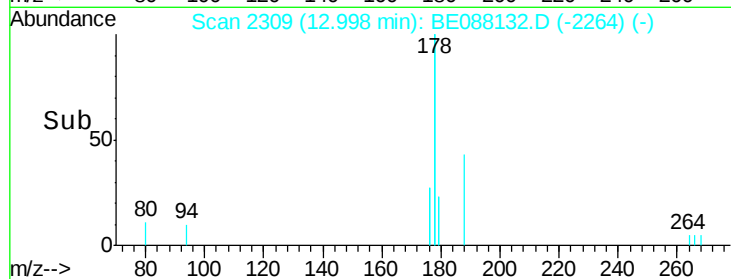
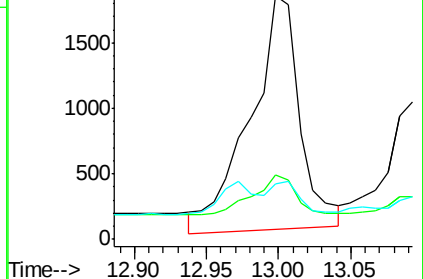
179 0.0 13.5 20.3#



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: 0.02 ng

RT: 13.09 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

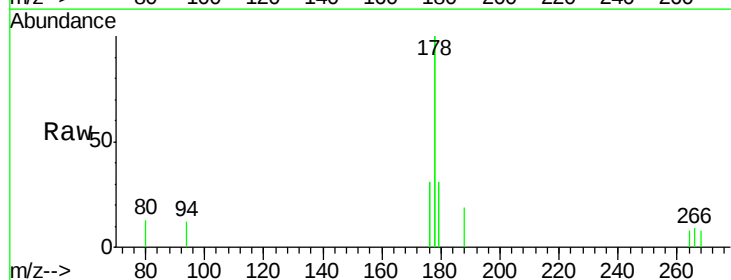
Tgt Ion:178 Resp: 1990

Ion Ratio Lower Upper

178 100

176 21.5 14.6 21.8

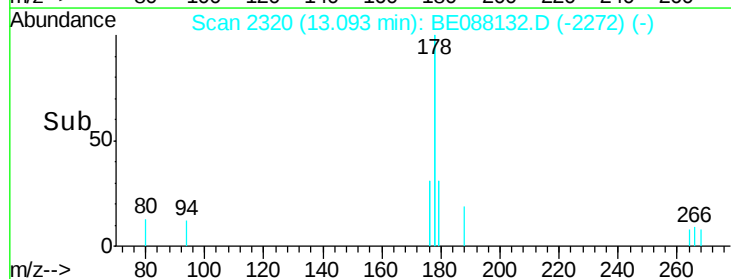
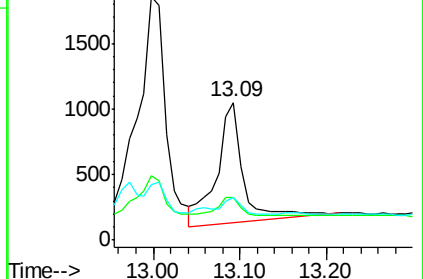
179 9.1 12.5 18.7#

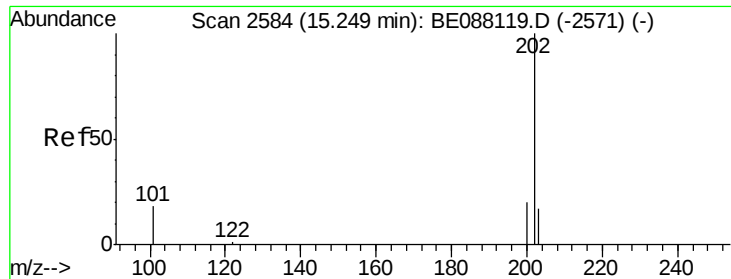


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

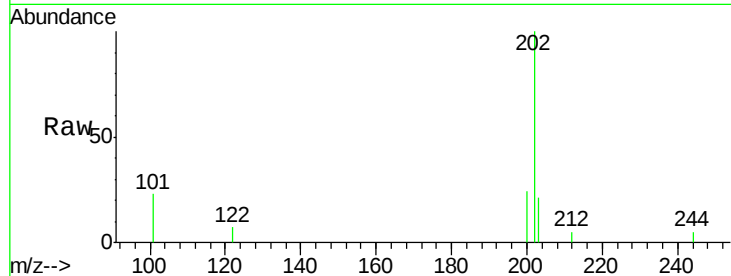




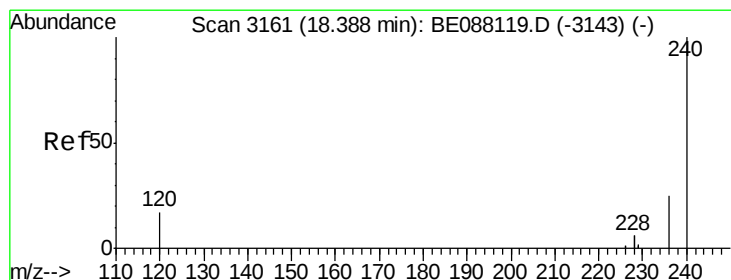
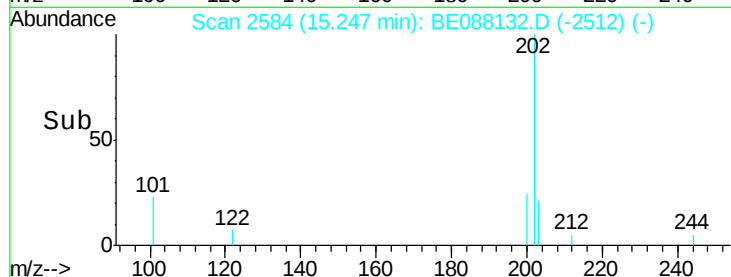
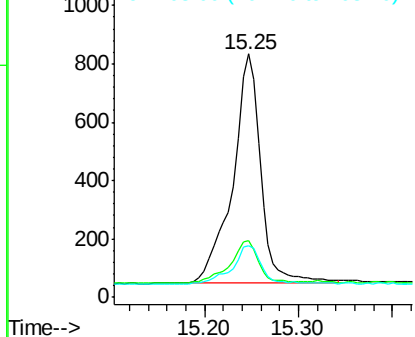
#15
 Fluoranthene
 Concen: 0.07 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088132.D
 Acq: 21 Oct 2014 9:05

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Tgt Ion: 202 Resp: 1614
 Ion Ratio Lower Upper
 202 100
 101 17.2 14.8 22.2
 203 16.9 13.5 20.3

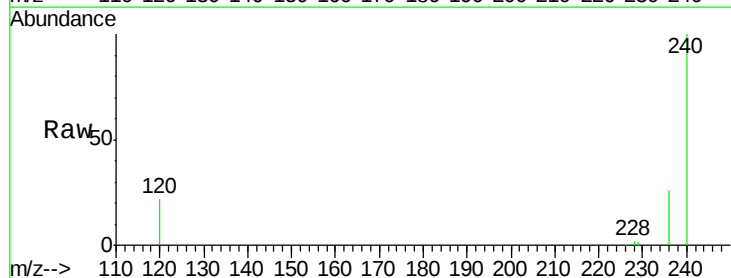


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

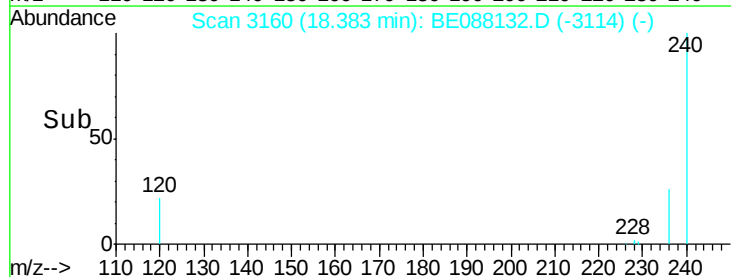
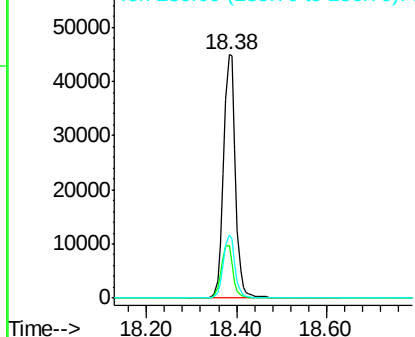


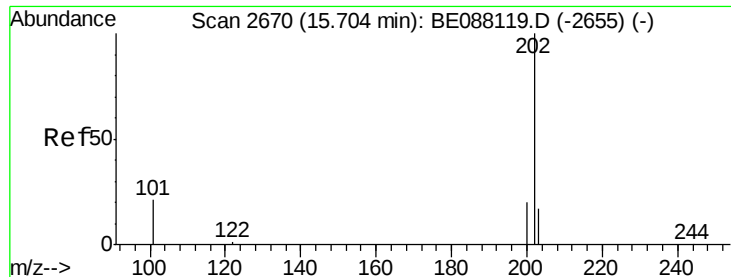
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3160
 Delta R.T. -0.01 min
 Lab File: BE088132.D
 Acq: 21 Oct 2014 9:05

Tgt Ion: 240 Resp: 82401
 Ion Ratio Lower Upper
 240 100
 120 21.9 13.9 20.9#
 236 25.8 19.9 29.9



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

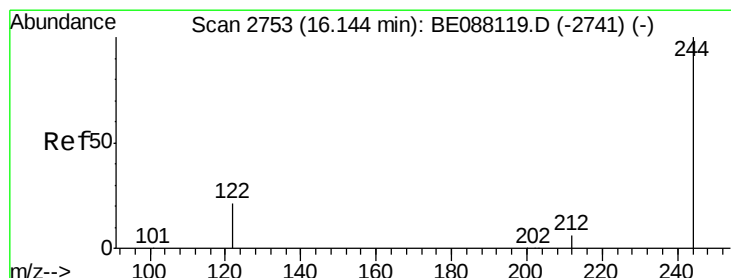
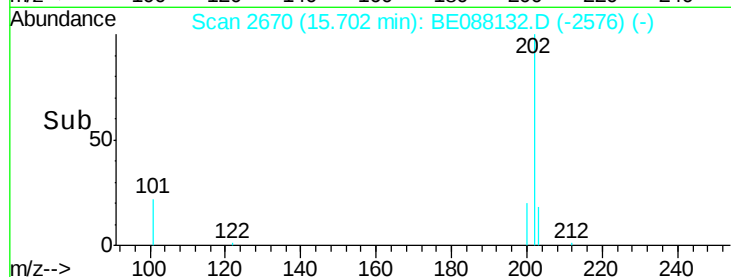
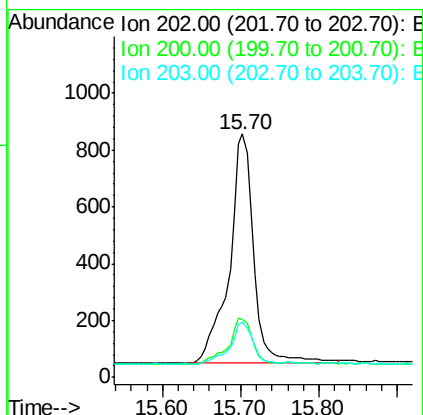
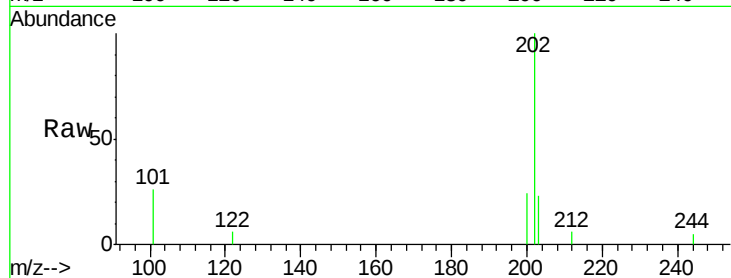




#17
 Pyrene
 Concen: 0.08 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088132.D
 Acq: 21 Oct 2014 9:05

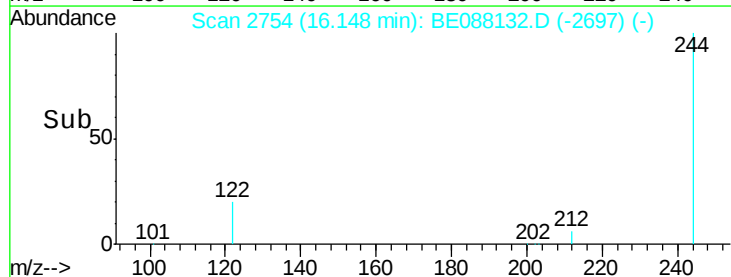
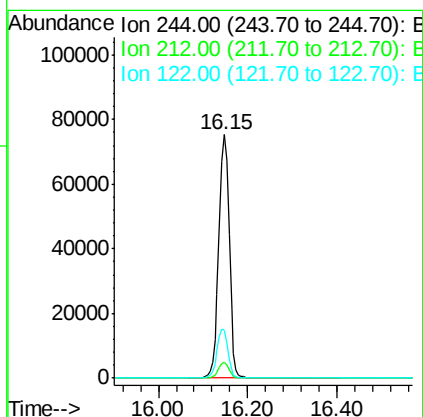
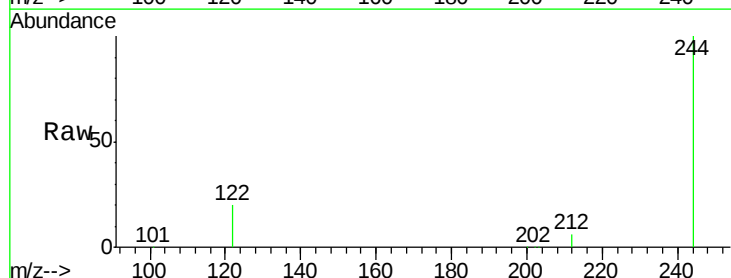
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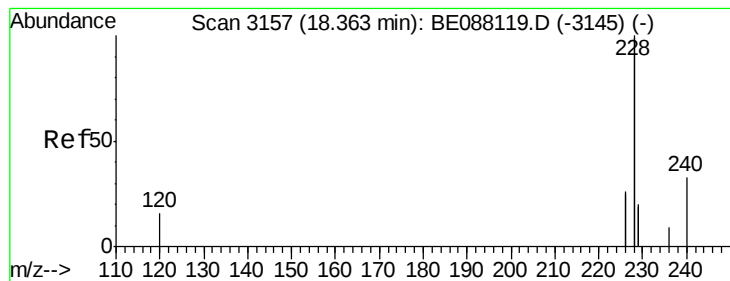
Tgt Ion: 202 Resp: 1742
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 18.4 13.9 20.9



#18
 Terphenyl-d14
 Concen: 9.16 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088132.D
 Acq: 21 Oct 2014 9:05

Tgt Ion: 244 Resp: 121519
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 19.7 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.10 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101414-SO

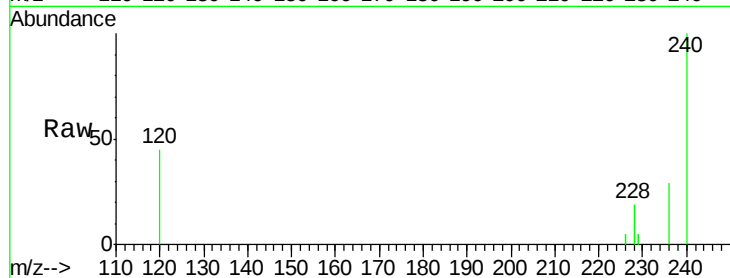
Tgt Ion:228 Resp: 7214

Ion Ratio Lower Upper

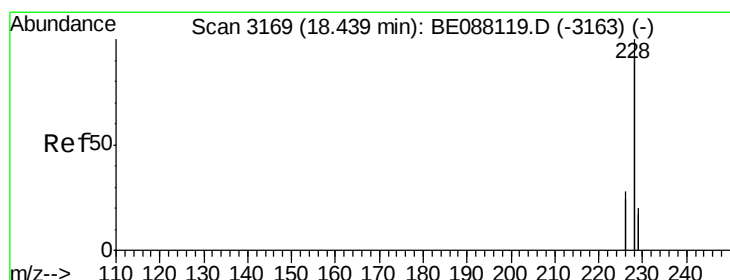
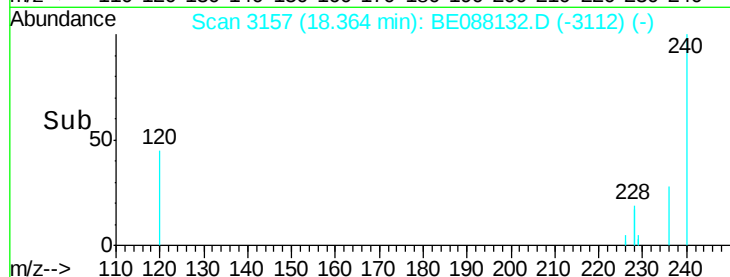
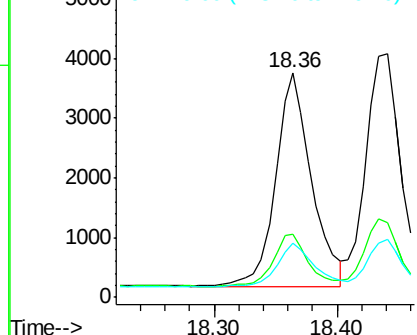
228 100

226 28.2 20.8 31.2

229 24.1 15.6 23.4#



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: 0.11 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

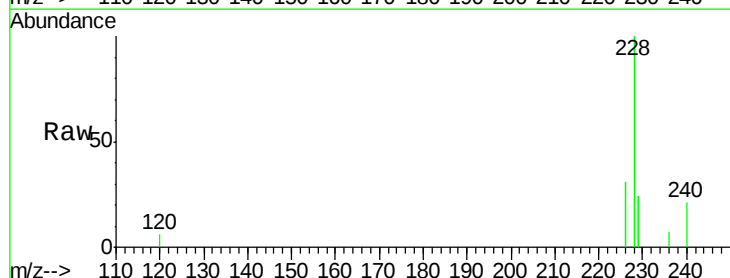
Tgt Ion:228 Resp: 7796

Ion Ratio Lower Upper

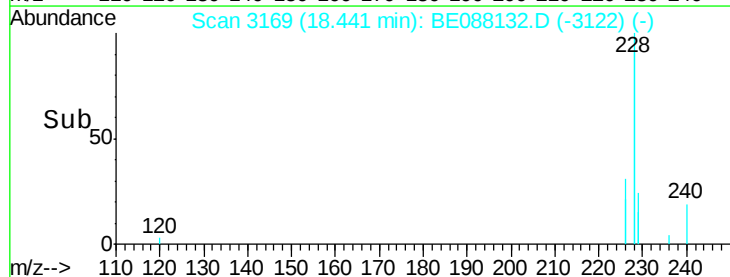
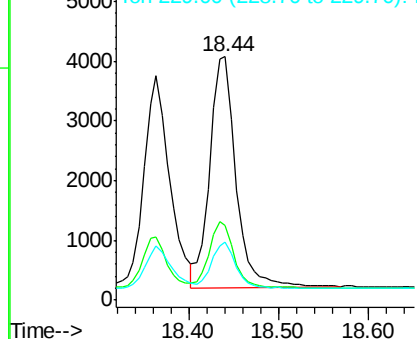
228 100

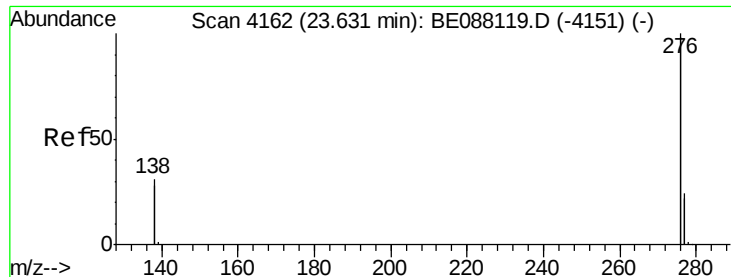
226 30.8 22.7 34.1

229 23.9 15.8 23.6#



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 23.63 min Scan# 4162

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101414-SO

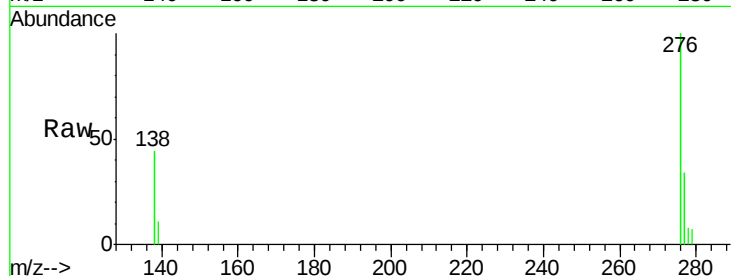
Tgt Ion:276 Resp: 4067

Ion Ratio Lower Upper

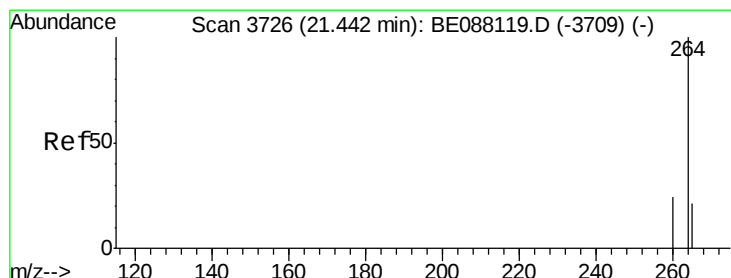
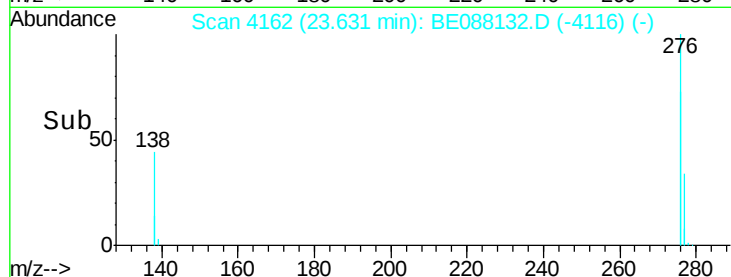
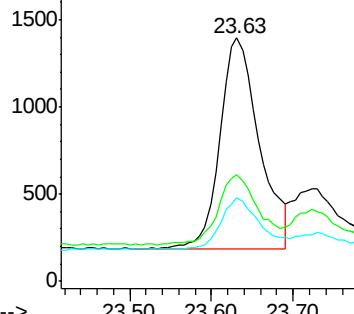
276 100

138 33.5 18.5 27.7#

277 24.2 14.6 21.8#



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: 21.44 min Scan# 3726

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

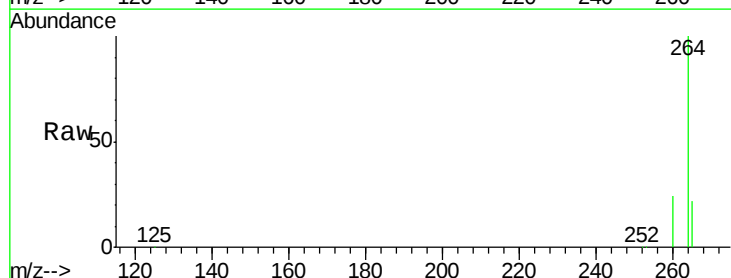
Tgt Ion:264 Resp: 78981

Ion Ratio Lower Upper

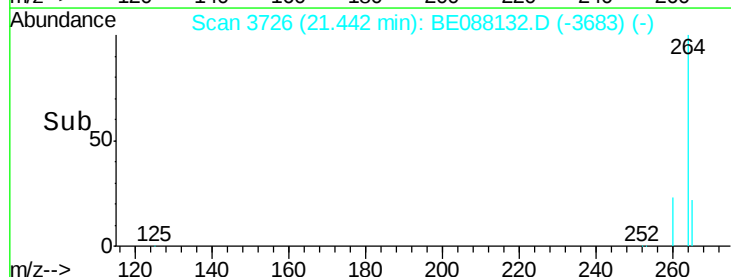
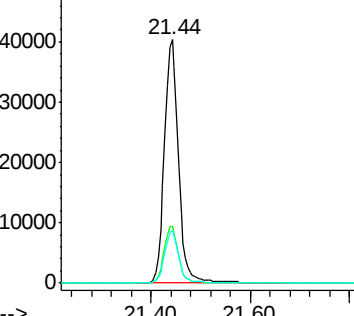
264 100

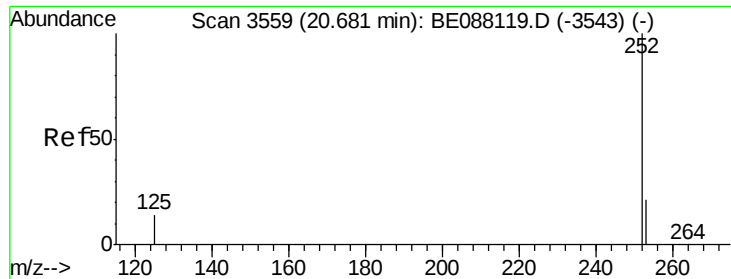
260 23.5 19.0 28.4

265 21.7 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: 0.07 ng

RT: 20.68 min Scan# 3559

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101414-SO

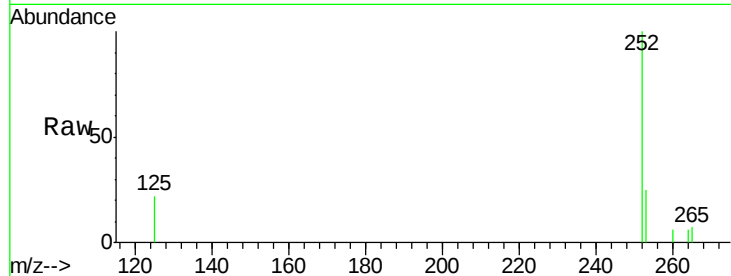
Tgt Ion:252 Resp: 1404

Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.0

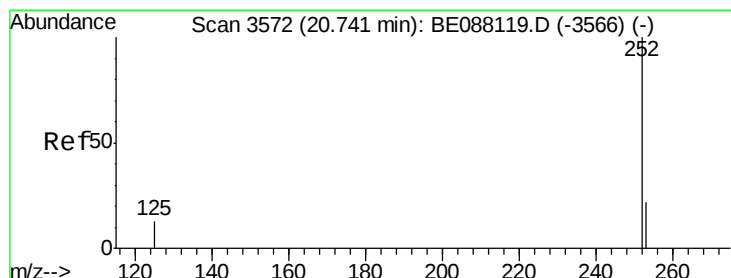
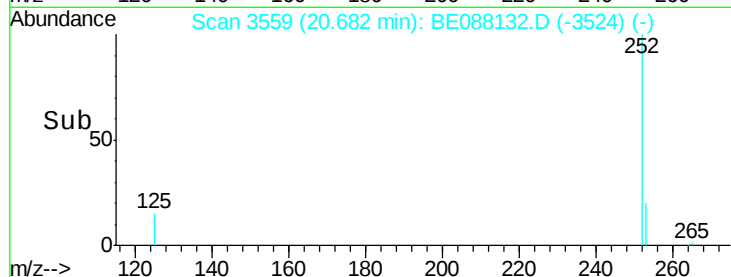
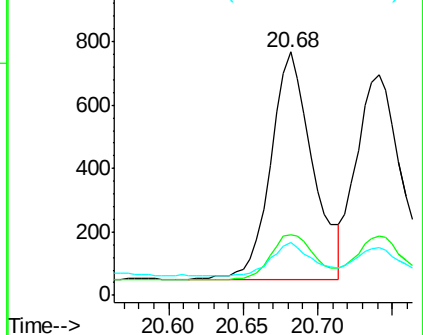
125 21.7 11.8 17.8#



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



#24

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 20.74 min Scan# 3572

Delta R.T. 0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

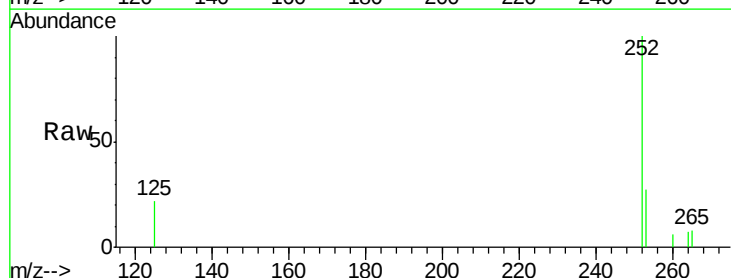
Tgt Ion:252 Resp: 1526

Ion Ratio Lower Upper

252 100

253 27.1 17.6 26.4#

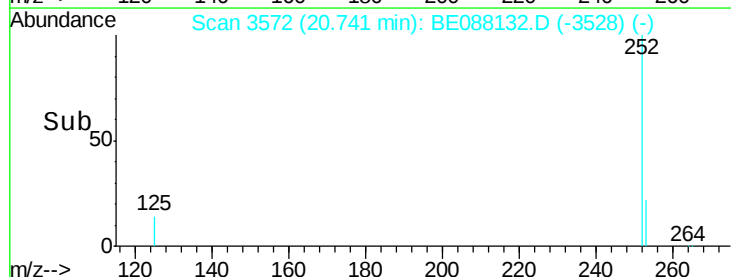
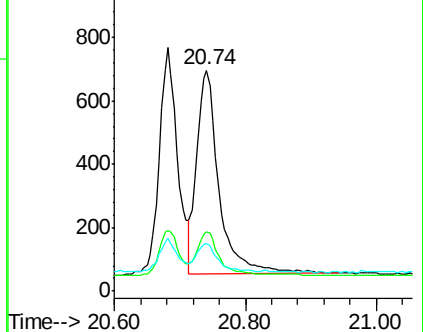
125 21.8 11.5 17.3#

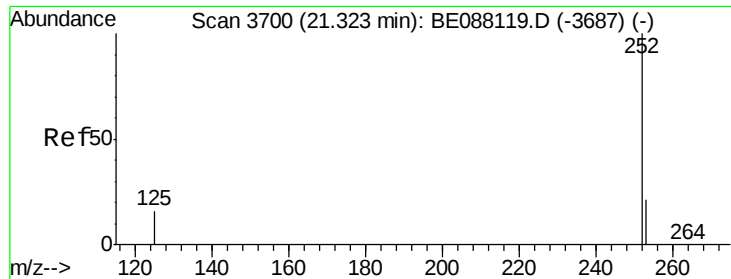


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.06 ng

RT: 21.32 min Scan# 3699

Delta R.T. -0.00 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101414-SO

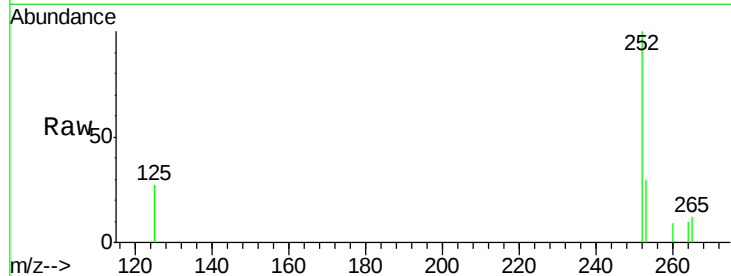
Tgt Ion: 252 Resp: 1004

Ion Ratio Lower Upper

252 100

253 29.6 17.5 26.3#

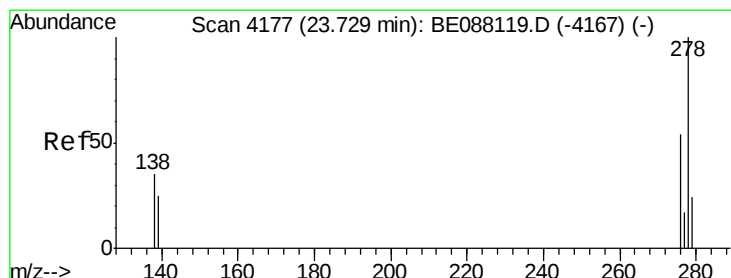
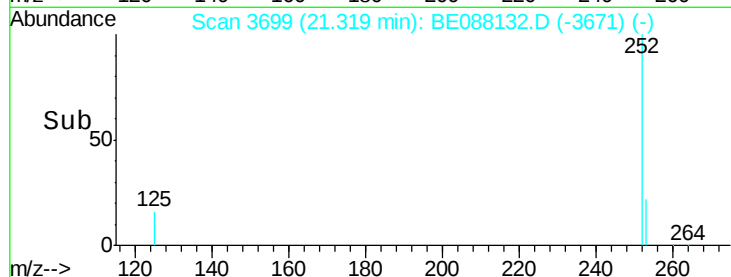
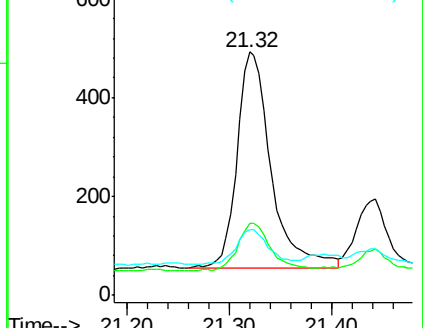
125 27.2 13.0 19.6#



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: 0.06 ng

RT: 23.74 min Scan# 4178

Delta R.T. 0.01 min

Lab File: BE088132.D

Acq: 21 Oct 2014 9:05

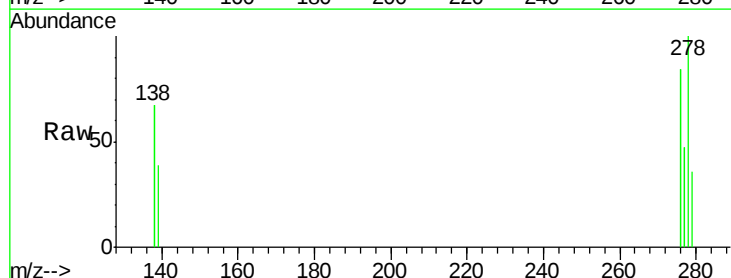
Tgt Ion: 278 Resp: 1006

Ion Ratio Lower Upper

278 100

139 39.2 20.9 31.3#

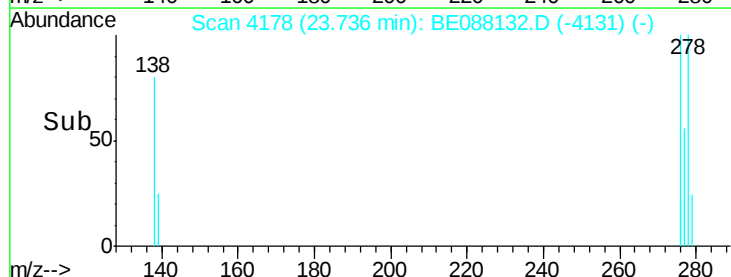
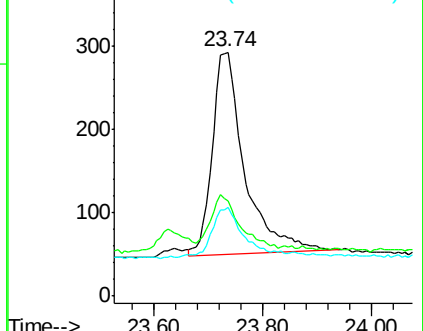
279 36.2 19.8 29.8#

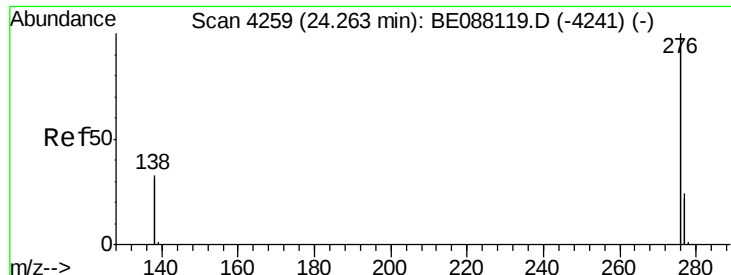


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.07 ng

RT: 24.26 min Scan# 4259

Delta R.T. 0.00 min

Lab File: BE088132.D

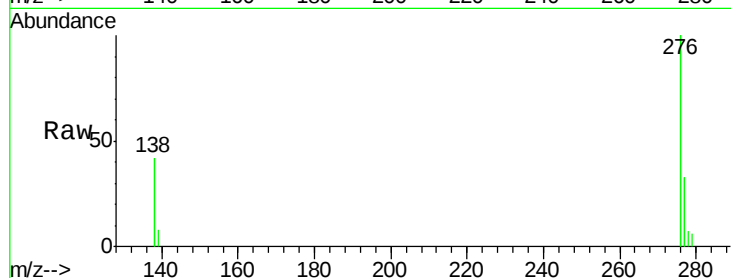
Acq: 21 Oct 2014 9:05

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101414-SO



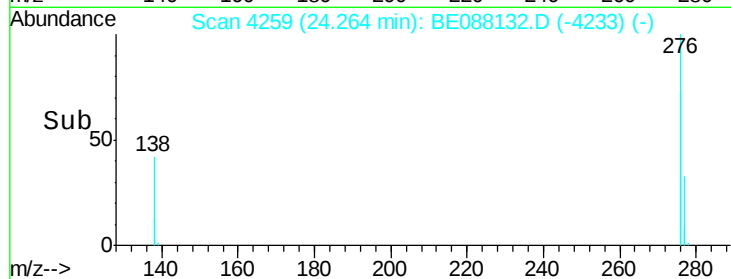
Tgt Ion: 276 Resp: 4918

Ion Ratio Lower Upper

276 100

277 32.6 19.2 28.8#

138 42.4 26.6 40.0#



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

