

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088472.D
 Acq On : 2 Nov 2014 3:04
 Operator : TP/JJ
 Sample : F4379-16RE
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38P-1014RE

Quant Time: Nov 02 04:25:10 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

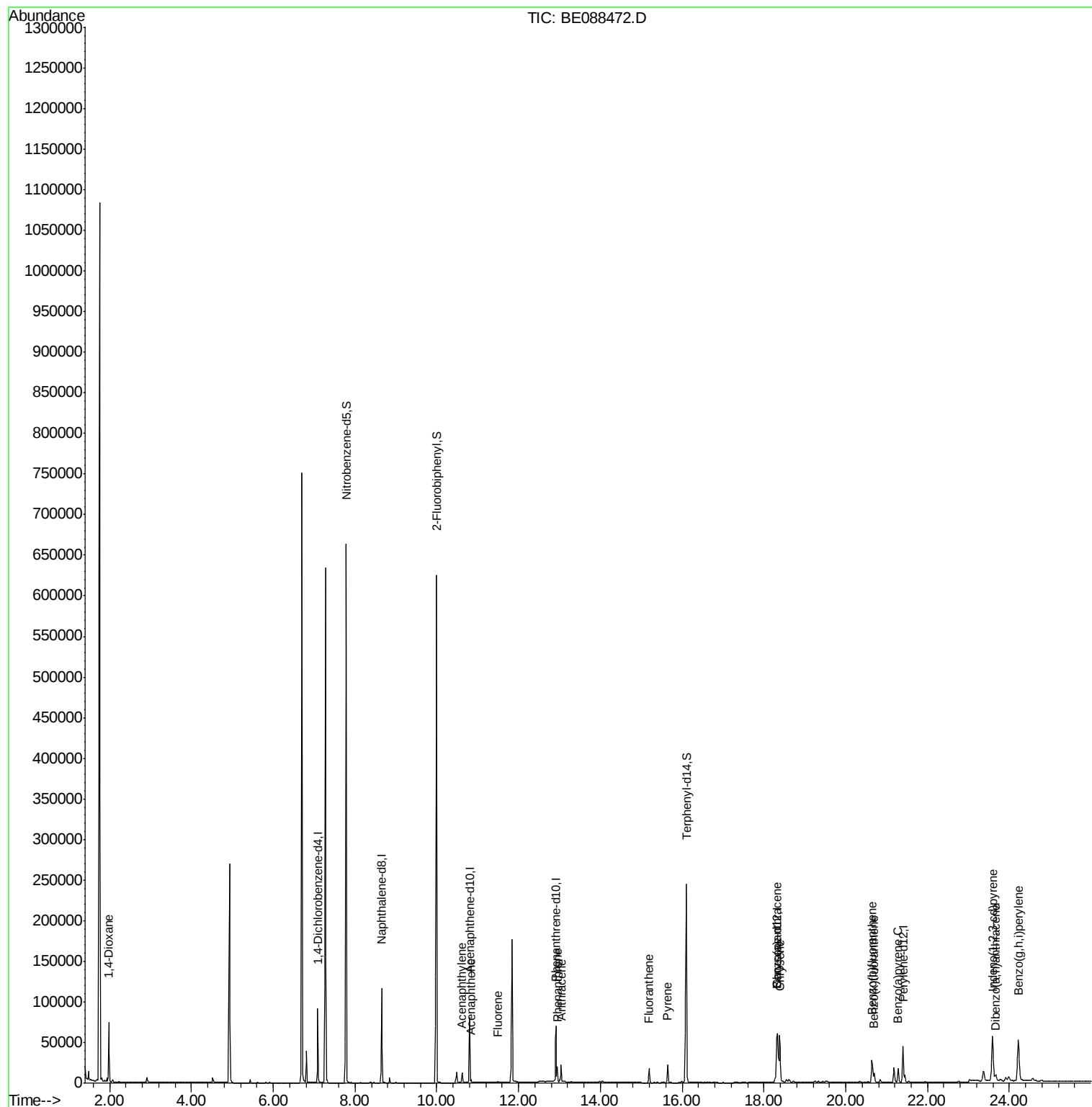
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	27483	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	99343	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	46379	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	94037	5.00	ng	0.00
16) Chrysene-d12	18.33	240	59089	5.00	ng	0.02
22) Perylene-d12	21.40	264	58677	5.00	ng	0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	432506	59.36	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	529491	40.50	ng	0.00
18) Terphenyl-d14	16.11	244	407309	37.52	ng	0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	1.98	88	2539	0.71	ng	# 1
9) Acenaphthylene	10.62	152	16113	0.21	ng	# 97
10) Acenaphthene	10.84	154	492	0.04	ng	# 88
11) Fluorene	11.49	166	723	0.06	ng	# 83
13) Phenanthrene	12.95	178	25417	0.30	ng	# 80
14) Anthracene	13.03	178	23605	0.34	ng	# 91
15) Fluoranthene	15.19	202	17740	1.28	ng	100
17) Pyrene	15.65	202	20977	1.09	ng	98
19) Benzo(a)anthracene	18.31	228	51891	0.93	ng	97
20) Chrysene	18.38	228	88546	1.62	ng	98
21) Indeno(1,2,3-cd)pyrene	23.59	276	103571	2.04	ng	# 91
23) Benzo(b)fluoranthene	20.64	252	47065	3.66	ng	98
24) Benzo(k)fluoranthene	20.70	252	15021	1.06	ng	95
25) Benzo(a)pyrene	21.28	252	24414	1.98	ng	97
26) Dibenzo(a,h)anthracene	23.67	278	5465	0.48	ng	# 81
27) Benzo(g,h,i)perylene	24.22	276	101943	1.94	ng	99

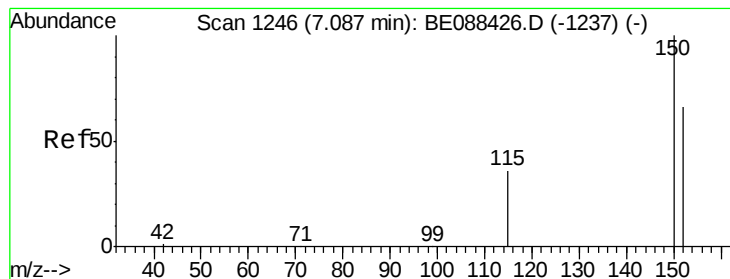
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

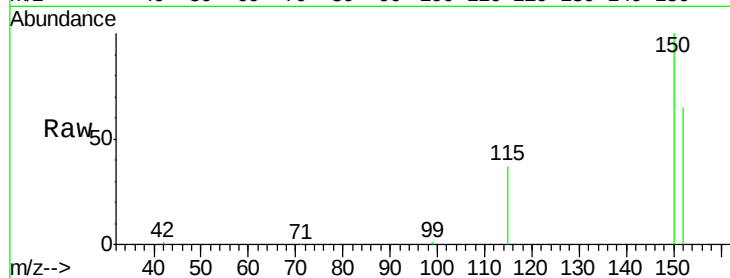
Tgt Ion:152 Resp: 27483

Ion Ratio Lower Upper

152 100

150 154.4 121.8 182.8

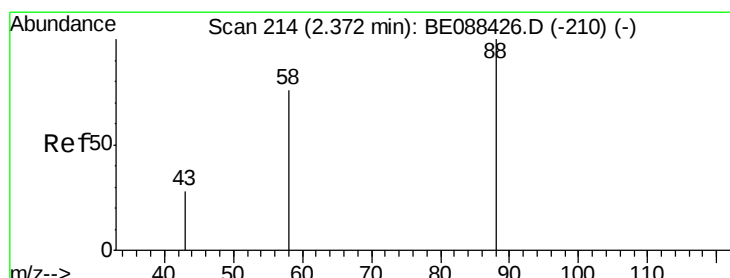
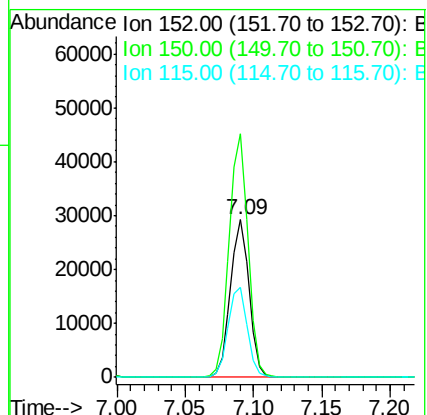
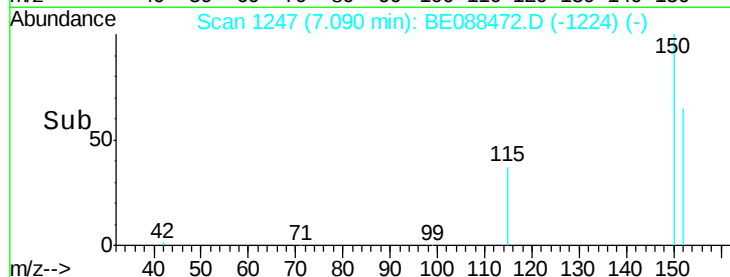
115 57.1 43.9 65.9



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



#2

1,4-Dioxane

Concen: 0.71 ng

RT: 1.98 min Scan# 129

Delta R.T. -0.39 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

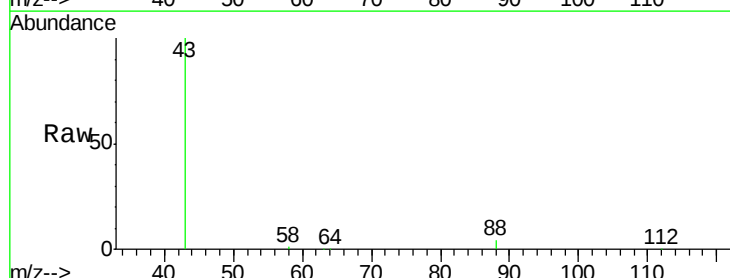
Tgt Ion: 88 Resp: 2539

Ion Ratio Lower Upper

88 100

58 26.6 59.1 88.7#

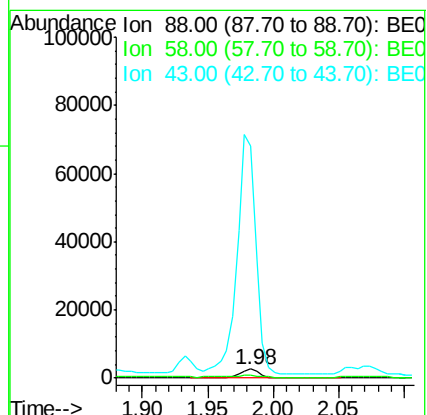
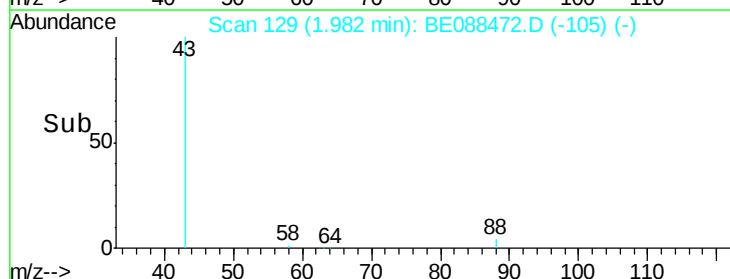
43 2778.8 21.9 32.9#

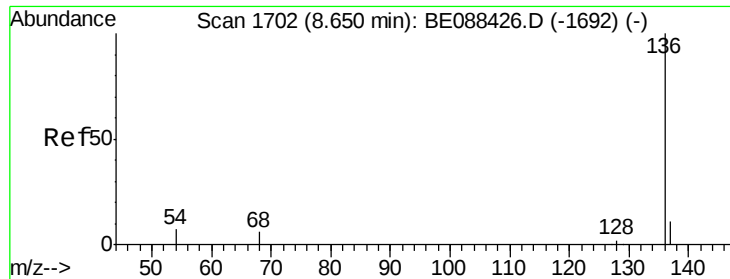


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

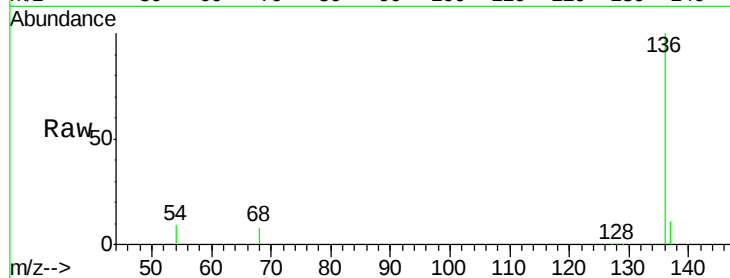
Tgt Ion:136 Resp: 99343

Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

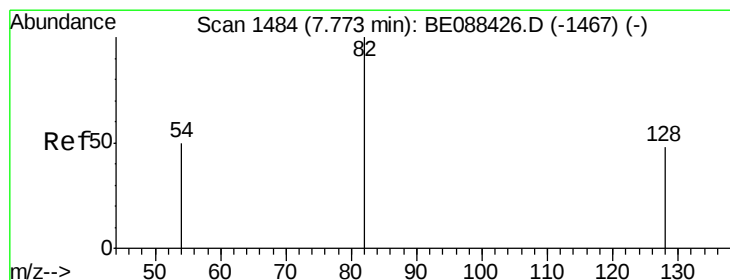
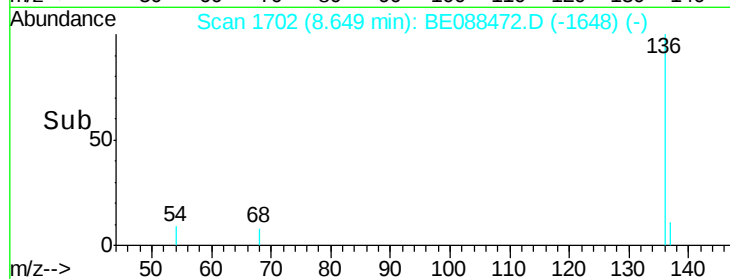
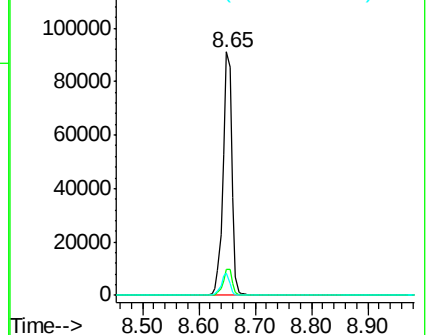
54 9.1 5.3 7.9#



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: 59.36 ng

RT: 7.79 min Scan# 1491

Delta R.T. 0.02 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

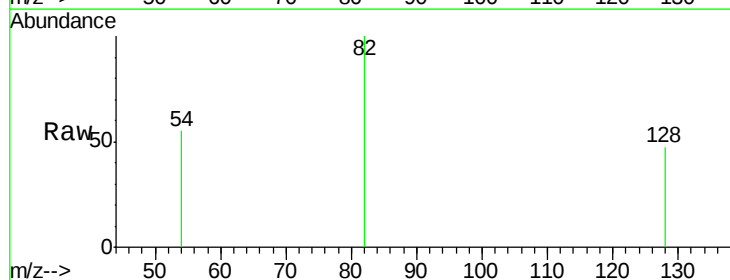
Tgt Ion: 82 Resp: 432506

Ion Ratio Lower Upper

82 100

128 47.0 38.4 57.6

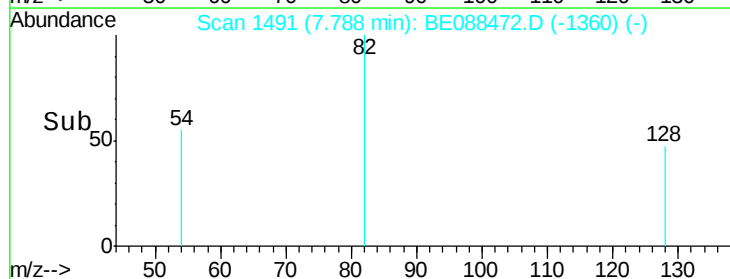
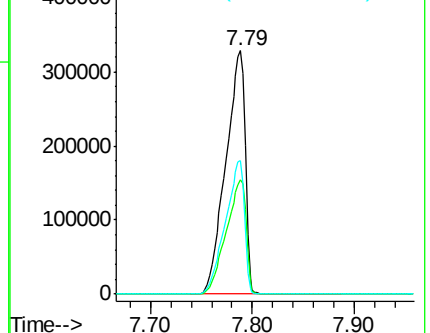
54 54.7 40.2 60.2

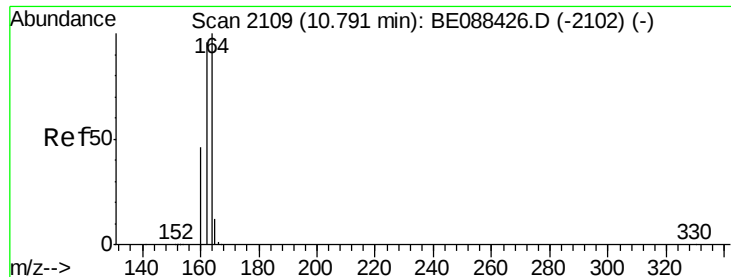


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

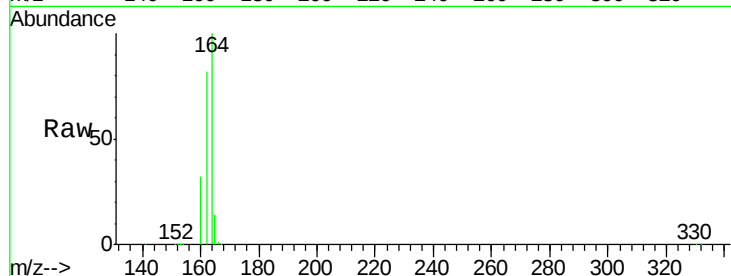
Tgt Ion:164 Resp: 46379

Ion Ratio Lower Upper

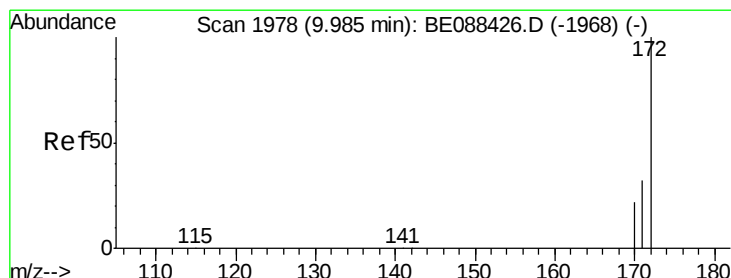
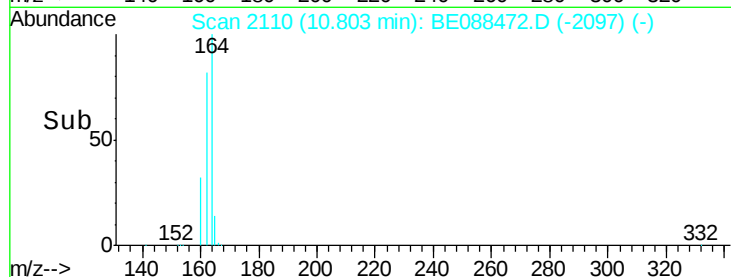
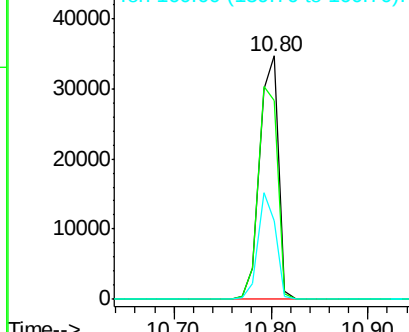
164 100

162 81.9 77.0 115.4

160 32.4 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: 40.50 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

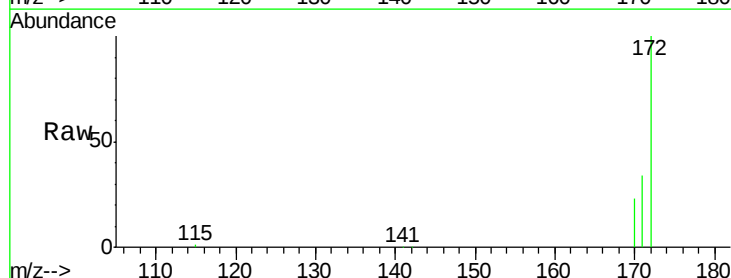
Tgt Ion:172 Resp: 529491

Ion Ratio Lower Upper

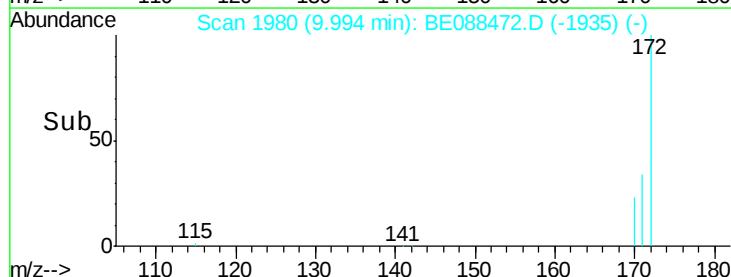
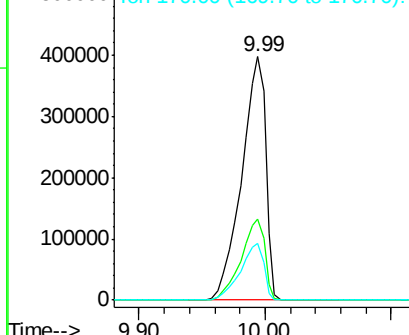
172 100

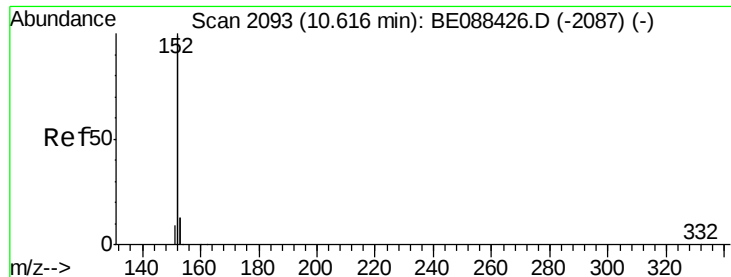
171 33.5 26.0 39.0

170 23.1 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





#9

Acenaphthylene

Concen: 0.21 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

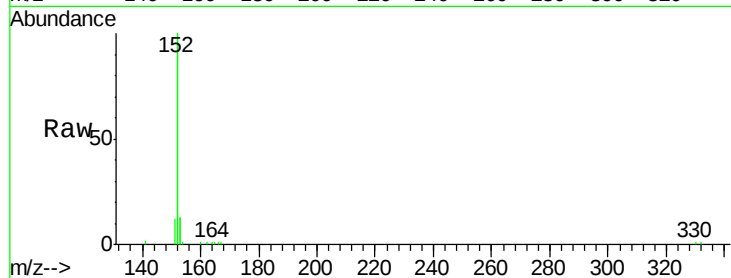
Tgt Ion:152 Resp: 16113

Ion Ratio Lower Upper

152 100

151 4.1 4.4 6.6#

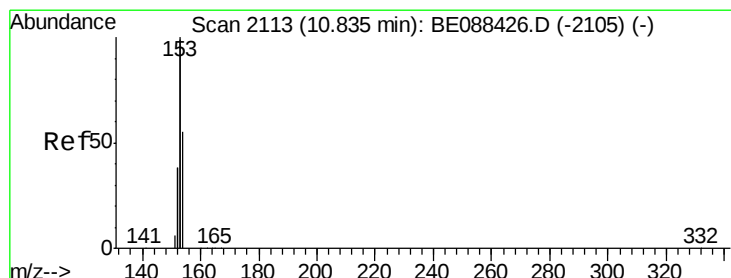
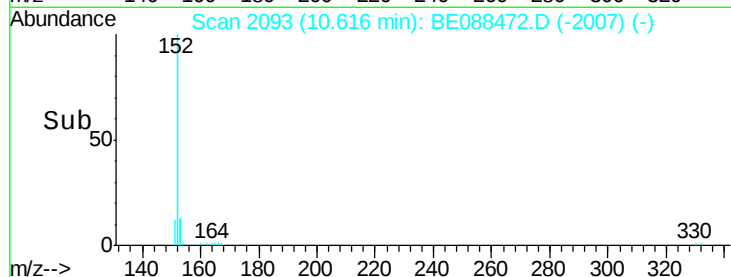
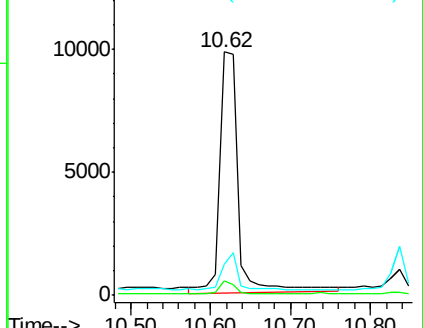
153 14.2 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.04 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

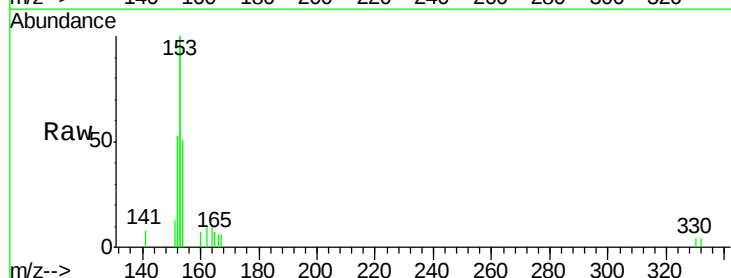
Tgt Ion:154 Resp: 492

Ion Ratio Lower Upper

154 100

153 404.9 324.3 486.5

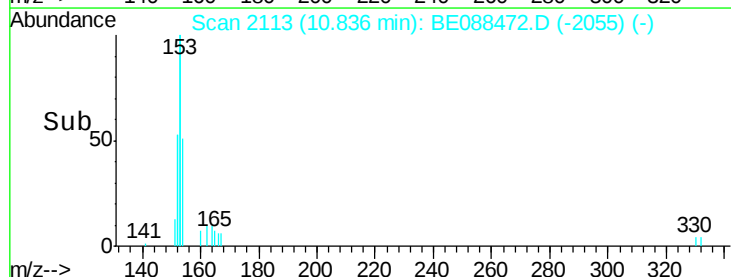
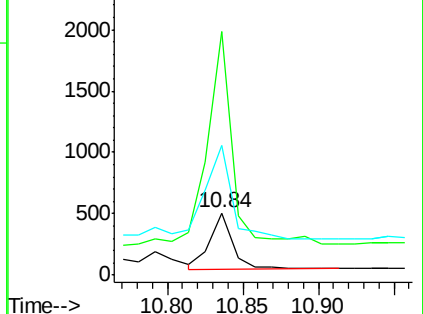
152 249.6 154.9 232.3#

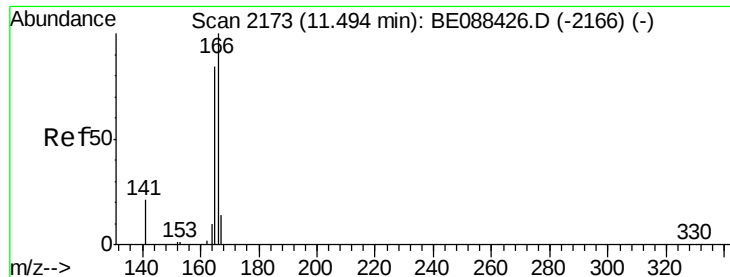


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.06 ng

RT: 11.49 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

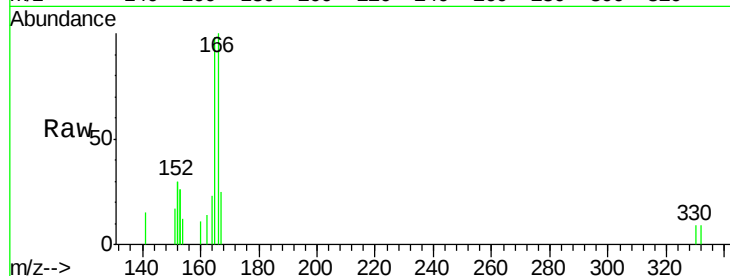
Tgt Ion:166 Resp: 723

Ion Ratio Lower Upper

166 100

165 107.3 71.3 106.9#

167 11.8 10.7 16.1



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

11.49

600

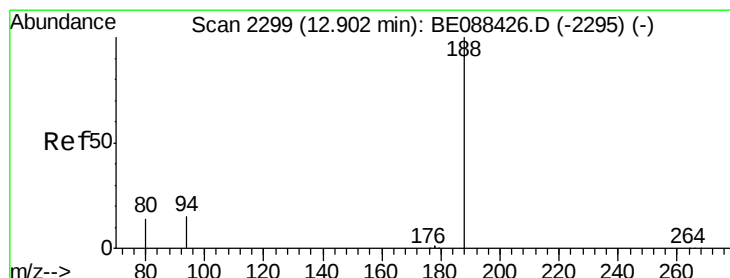
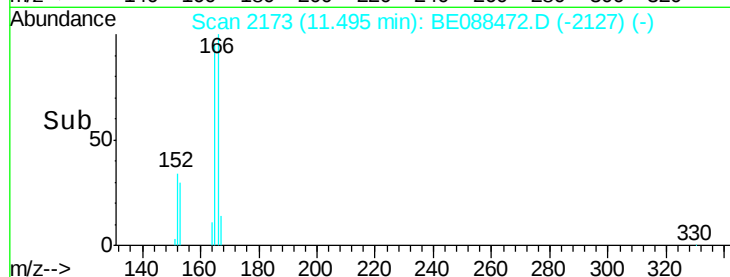
400

200

0

11.40 11.50 11.60

Time-->



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

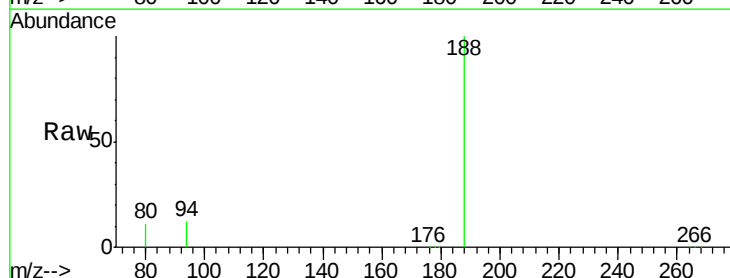
Tgt Ion:188 Resp: 94037

Ion Ratio Lower Upper

188 100

94 12.3 11.8 17.8

80 10.9 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

12.91

60000

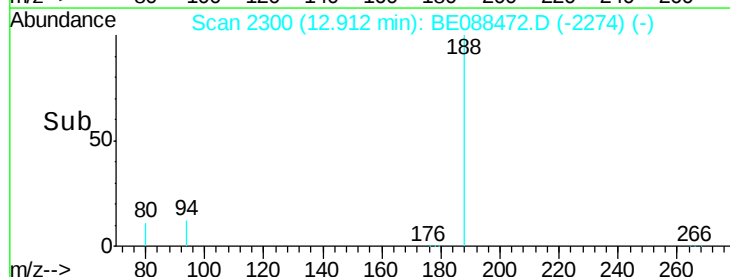
40000

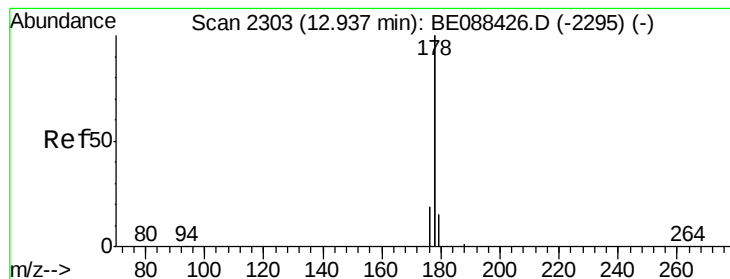
20000

0

12.80 12.90 13.00

Time-->





#13

Phenanthrene

Concen: 0.30 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

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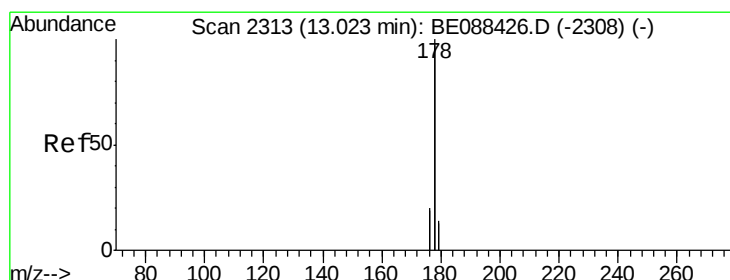
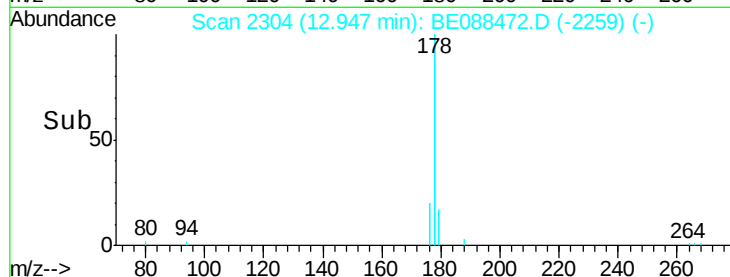
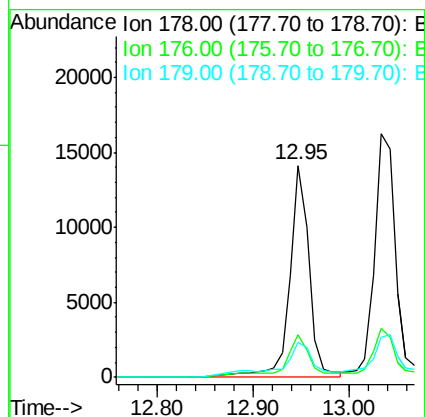
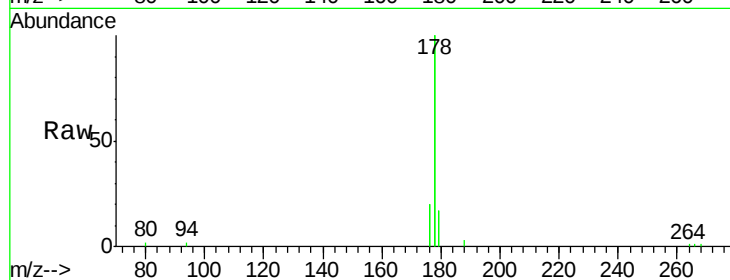
Tgt Ion:178 Resp: 25417

Ion Ratio Lower Upper

178 100

176 26.2 15.4 23.2#

179 27.3 12.8 19.2#



#14

Anthracene

Concen: 0.34 ng

RT: 13.03 min Scan# 2314

Delta R.T. 0.01 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

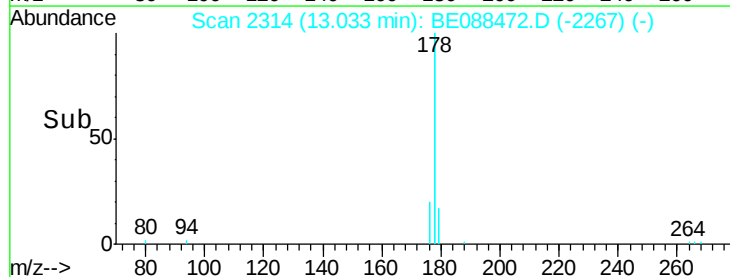
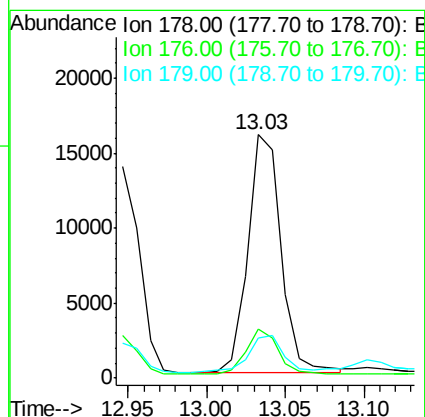
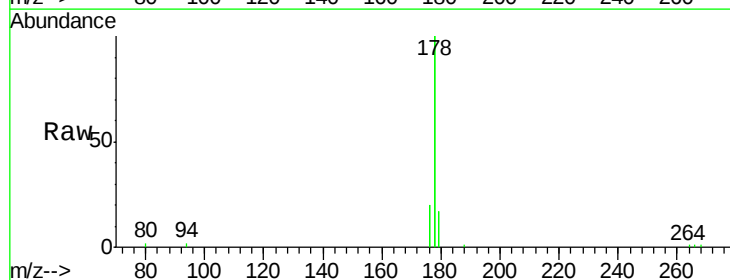
Tgt Ion:178 Resp: 23605

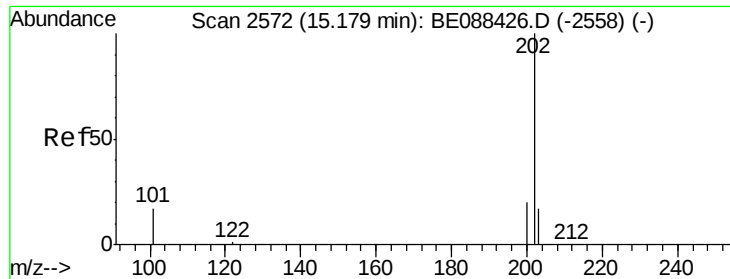
Ion Ratio Lower Upper

178 100

176 21.0 15.0 22.4

179 20.9 12.5 18.7#





#15

Fluoranthene

Concen: 1.28 ng

RT: 15.19 min Scan# 2574

Delta R.T. 0.01 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

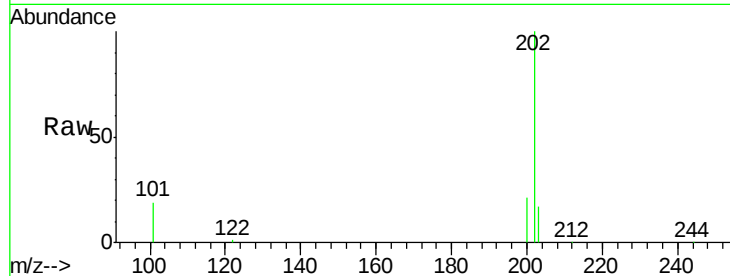
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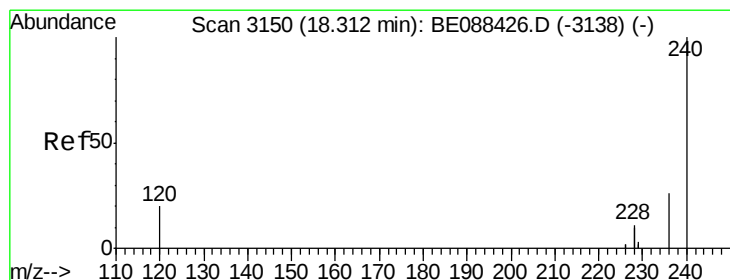
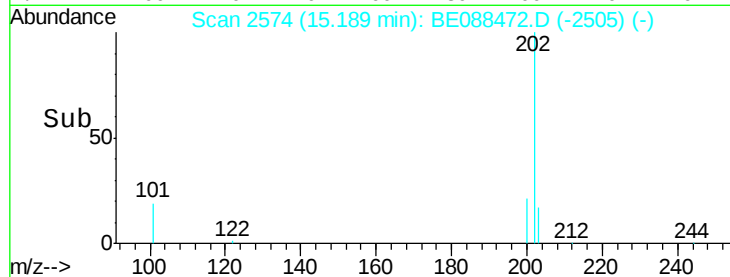
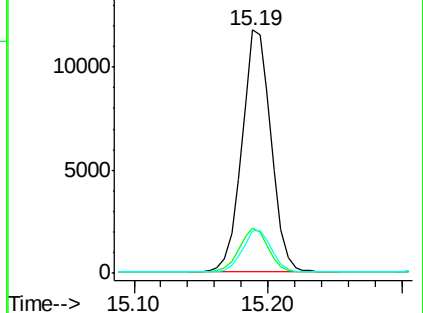
Tgt Ion:	202	Resp:	17740
Ion	Ratio	Lower	Upper
202	100		
101	17.8	14.3	21.5
203	17.2	13.6	20.4



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

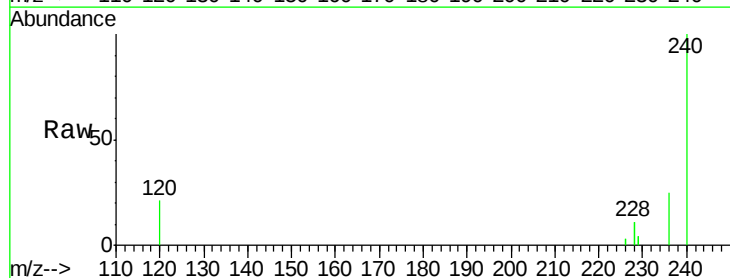
RT: 18.33 min Scan# 3153

Delta R.T. 0.02 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

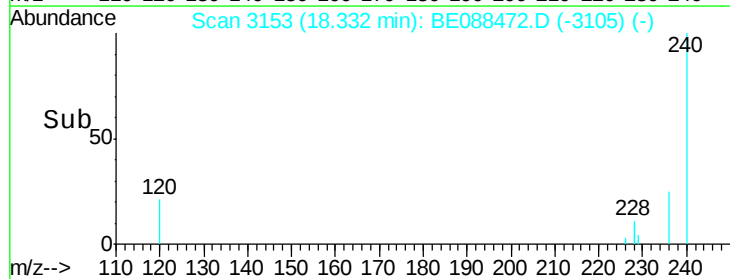
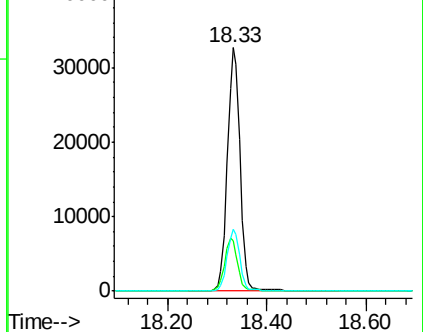
Tgt Ion:	240	Resp:	59089
Ion	Ratio	Lower	Upper
240	100		
120	20.8	16.4	24.6
236	25.4	20.5	30.7

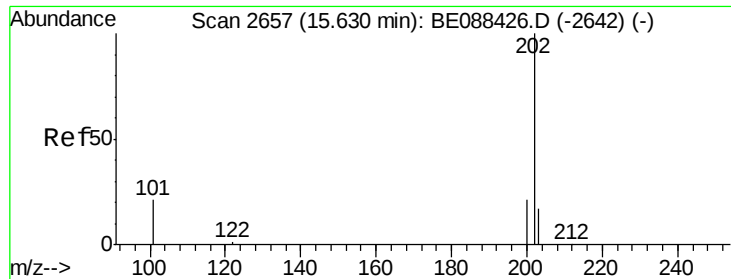


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

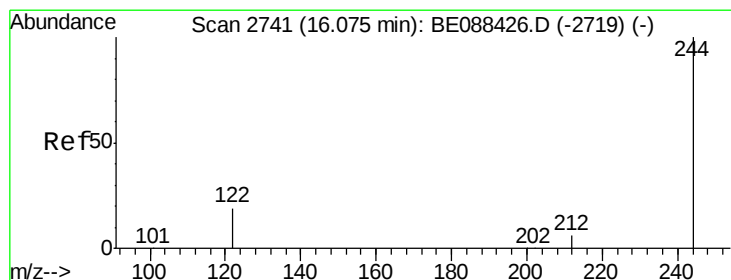
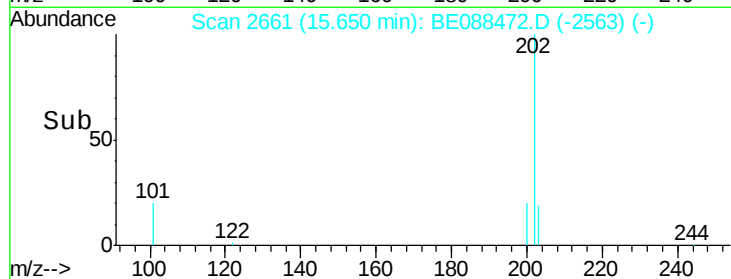
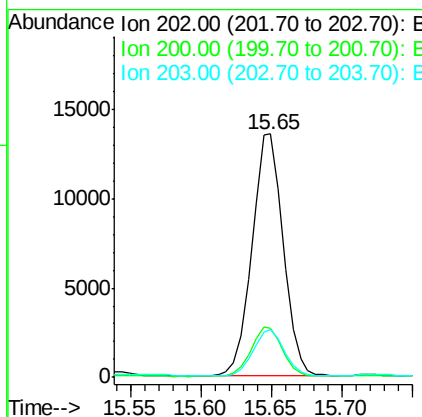
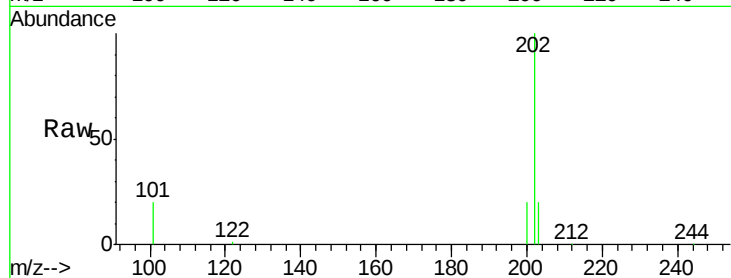




#17
 Pyrene
 Concen: 1.09 ng
 RT: 15.65 min Scan# 2661
 Delta R.T. 0.02 min
 Lab File: BE088472.D
 Acq: 2 Nov 2014 3:04

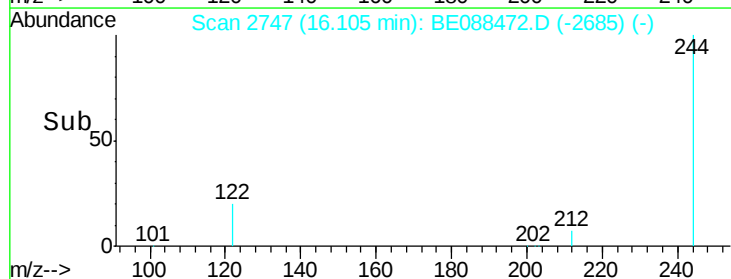
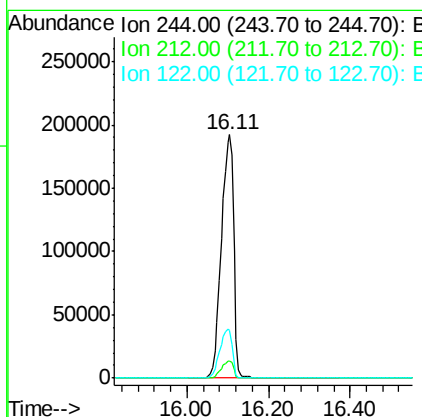
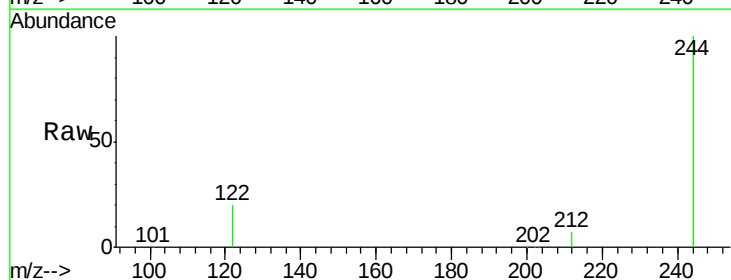
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38P-1014RE

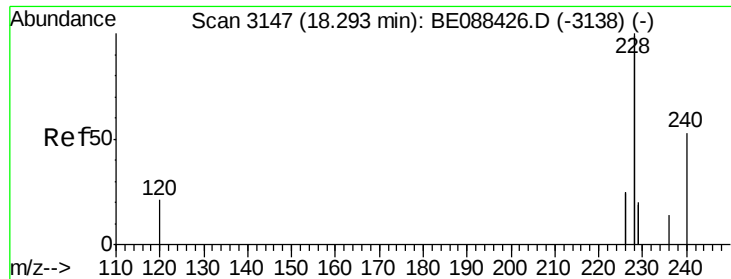
Tgt Ion: 202 Resp: 20977
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.1 24.1
 203 19.1 13.8 20.8



#18
 Terphenyl-d14
 Concen: 37.52 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. 0.03 min
 Lab File: BE088472.D
 Acq: 2 Nov 2014 3:04

Tgt Ion: 244 Resp: 407309
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 19.7 15.6 23.4





#19

Benzo(a)anthracene

Concen: 0.93 ng

RT: 18.31 min Scan# 3150

Delta R.T. 0.02 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

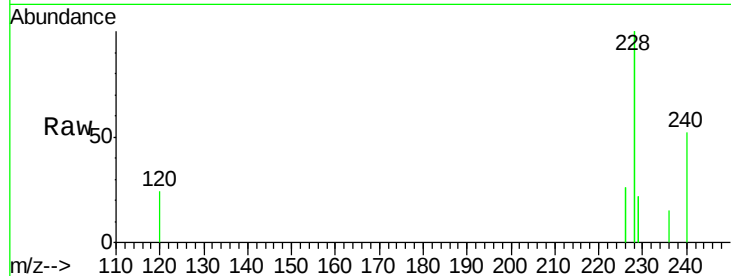
Tgt Ion:228 Resp: 51891

Ion Ratio Lower Upper

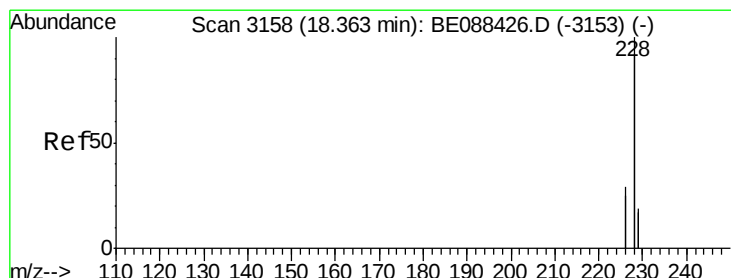
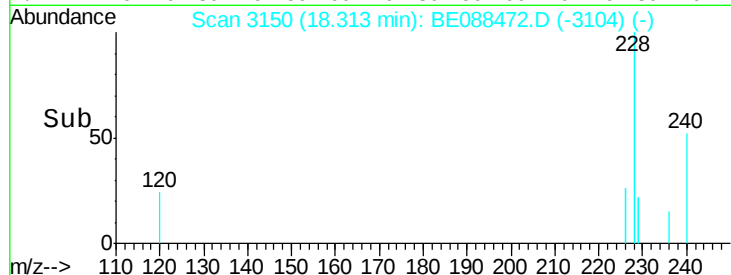
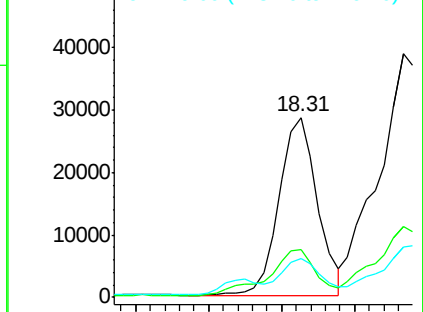
228 100

226 26.4 19.8 29.6

229 21.5 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: 1.62 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

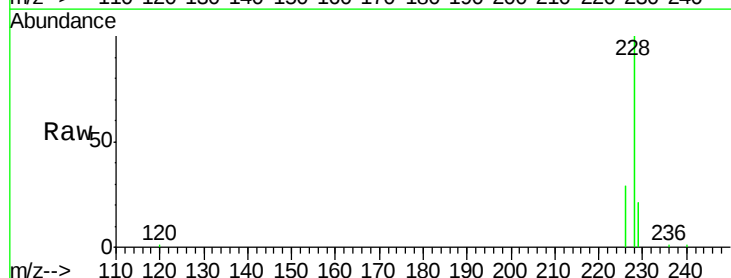
Tgt Ion:228 Resp: 88546

Ion Ratio Lower Upper

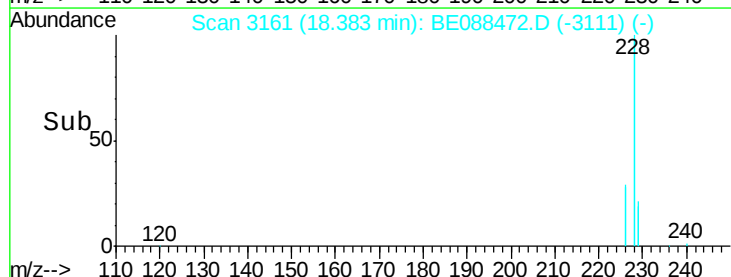
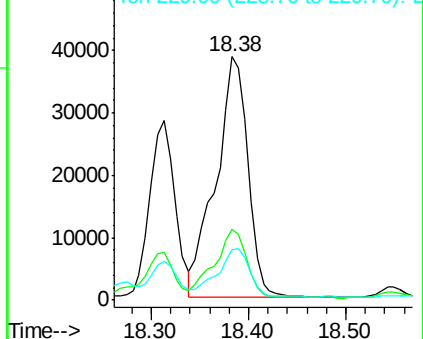
228 100

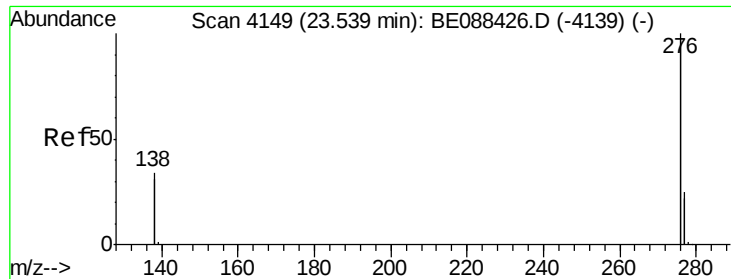
226 29.2 23.6 35.4

229 20.8 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: 2.04 ng

RT: 23.59 min Scan# 4157

Delta R.T. 0.05 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

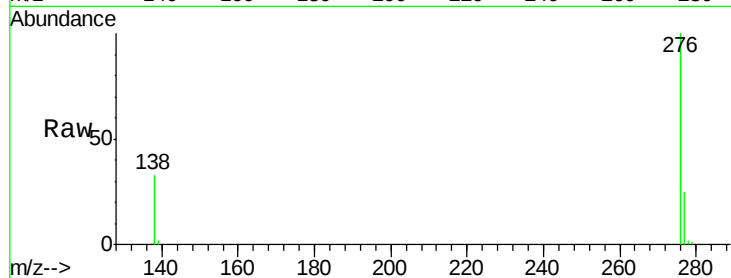
Tgt Ion: 276 Resp: 103571

Ion Ratio Lower Upper

276 100

138 30.4 20.2 30.2#

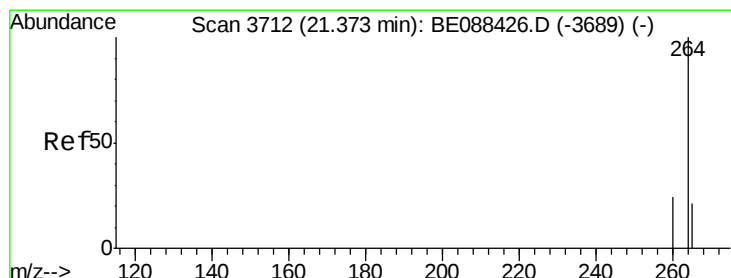
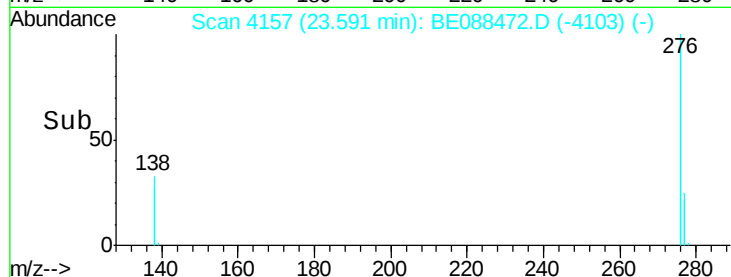
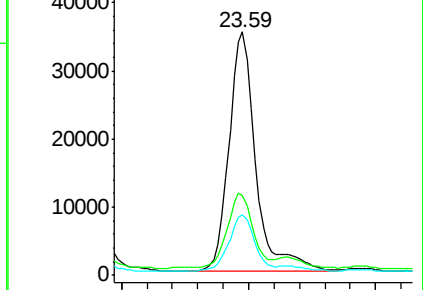
277 22.2 14.8 22.2



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: 21.40 min Scan# 3718

Delta R.T. 0.03 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

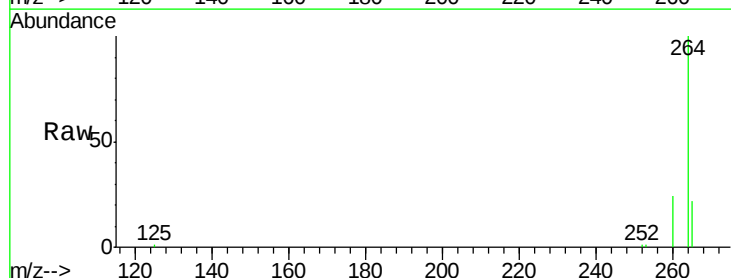
Tgt Ion: 264 Resp: 58677

Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

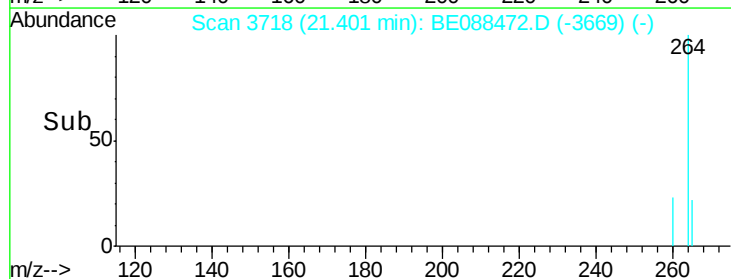
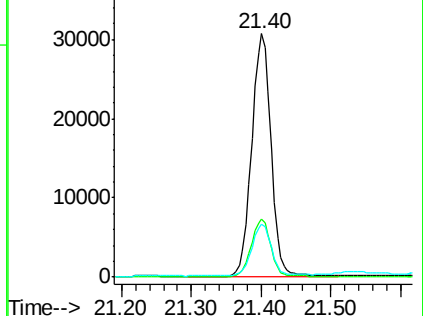
265 21.9 17.2 25.8

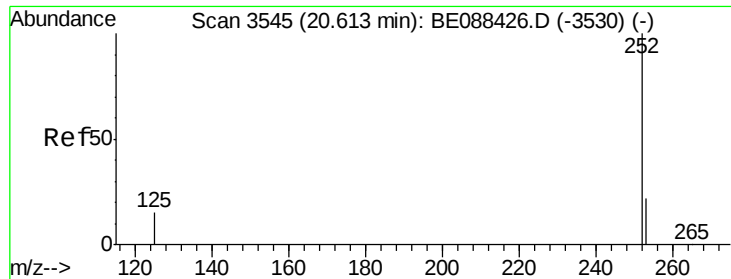


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 3.66 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.03 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

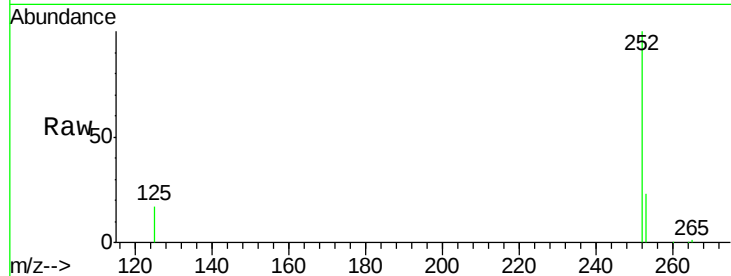
Tgt Ion:252 Resp: 47065

Ion Ratio Lower Upper

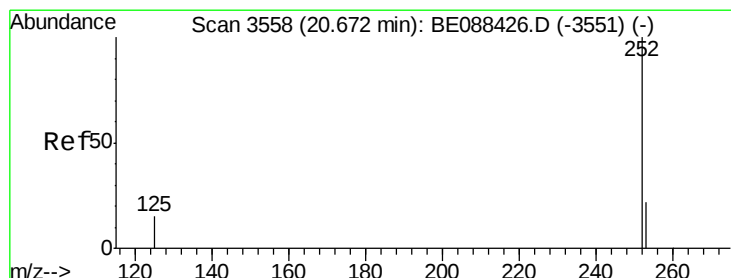
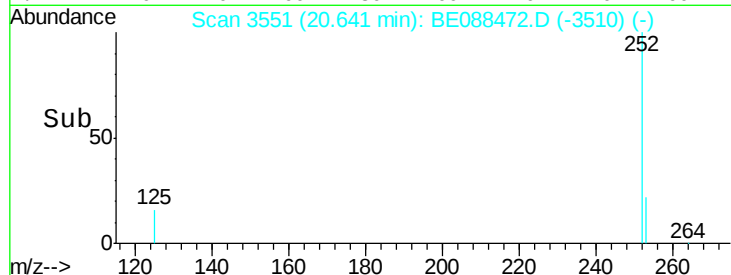
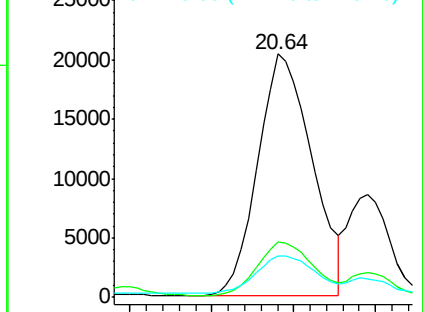
252 100

253 22.6 17.8 26.8

125 17.1 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: 1.06 ng

RT: 20.70 min Scan# 3563

Delta R.T. 0.02 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

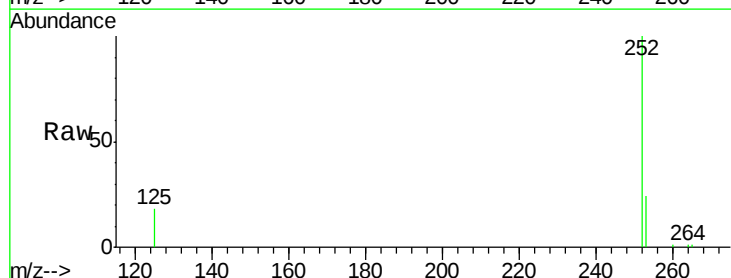
Tgt Ion:252 Resp: 15021

Ion Ratio Lower Upper

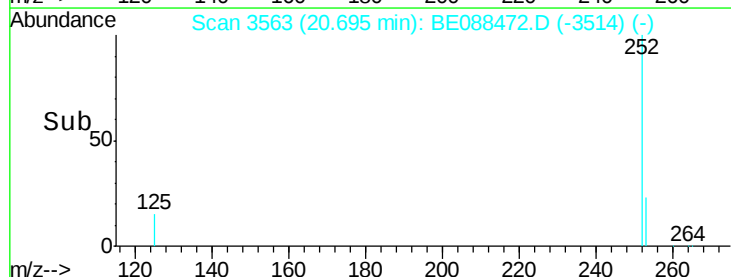
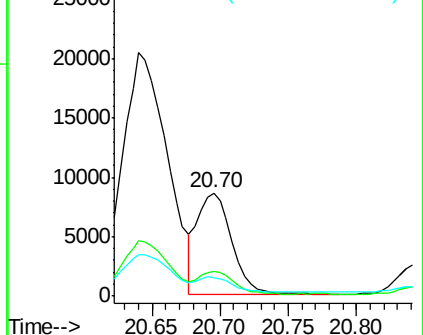
252 100

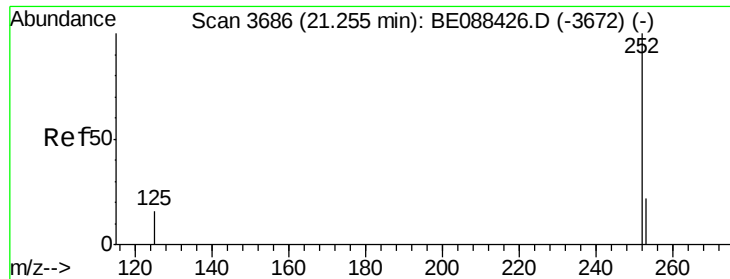
253 24.2 17.8 26.8

125 18.2 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: 1.98 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.03 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE

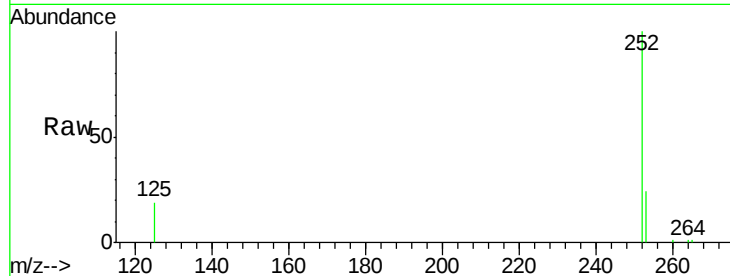
Tgt Ion:252 Resp: 24414

Ion Ratio Lower Upper

252 100

253 24.1 18.2 27.4

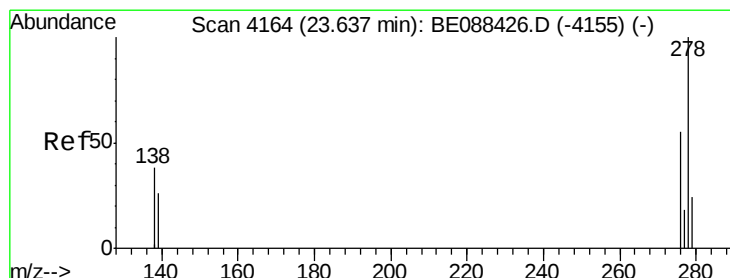
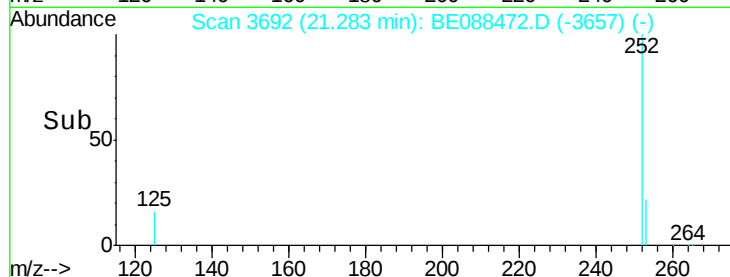
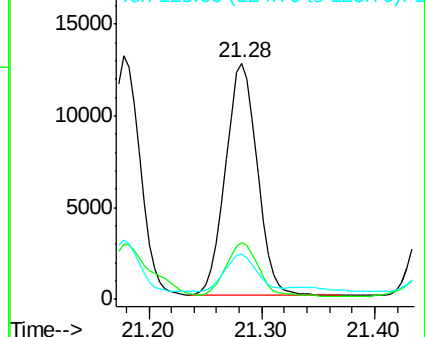
125 19.0 13.7 20.5



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: 0.48 ng

RT: 23.67 min Scan# 4169

Delta R.T. 0.03 min

Lab File: BE088472.D

Acq: 2 Nov 2014 3:04

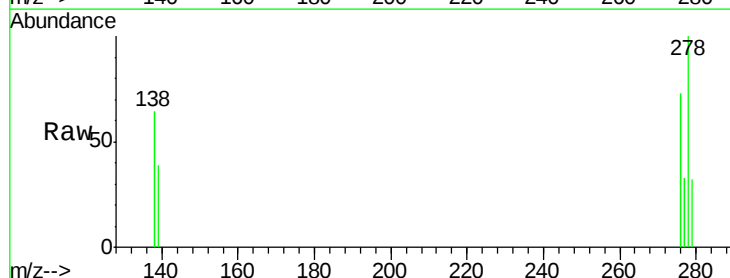
Tgt Ion:278 Resp: 5465

Ion Ratio Lower Upper

278 100

139 38.9 22.1 33.1#

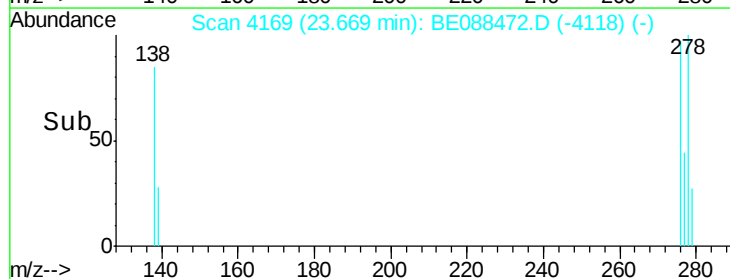
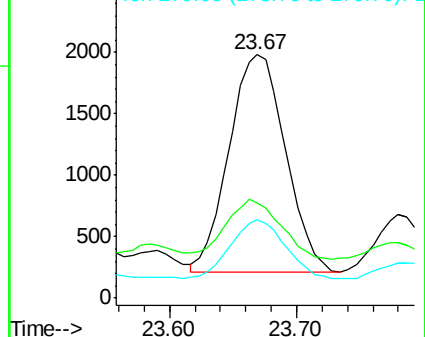
279 32.1 19.7 29.5#

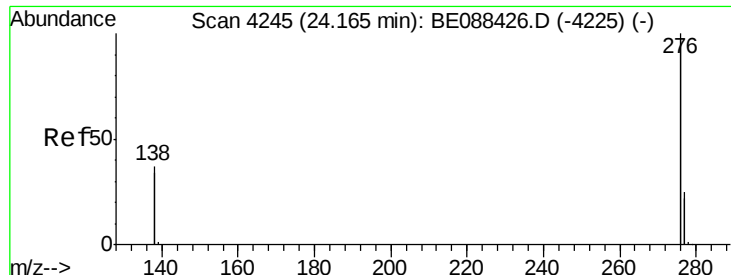


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.94 ng

RT: 24.22 min Scan# 4254

Delta R.T. 0.06 min

Lab File: BE088472.D

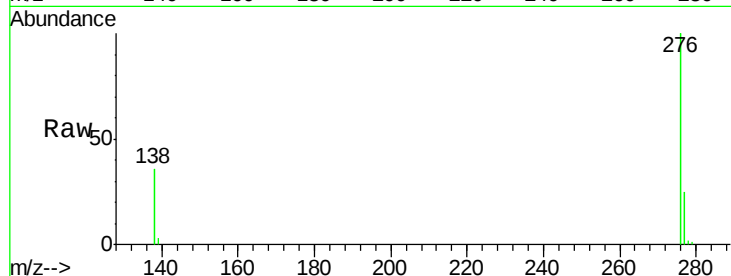
Acq: 2 Nov 2014 3:04

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014RE



Tgt Ion: 276 Resp: 101943

Ion Ratio Lower Upper

276 100

277 25.1 19.8 29.6

138 36.2 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

