

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088127.D
 Acq On : 21 Oct 2014 6:18
 Operator : TP/JJ
 Sample : F4312-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS25-1014

Quant Time: Oct 21 07:51:45 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	44981	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	161850	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	72102	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	136467	5.00	ng	0.00
16) Chrysene-d12	18.38	240	95990	5.00	ng	0.00
22) Perylene-d12	21.44	264	92522	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.84	82	645511	55.33	ng	0.01
8) 2-Fluorobiphenyl	10.04	172	718281	36.07	ng	0.00
18) Terphenyl-d14	16.16	244	568336	36.79	ng	0.02

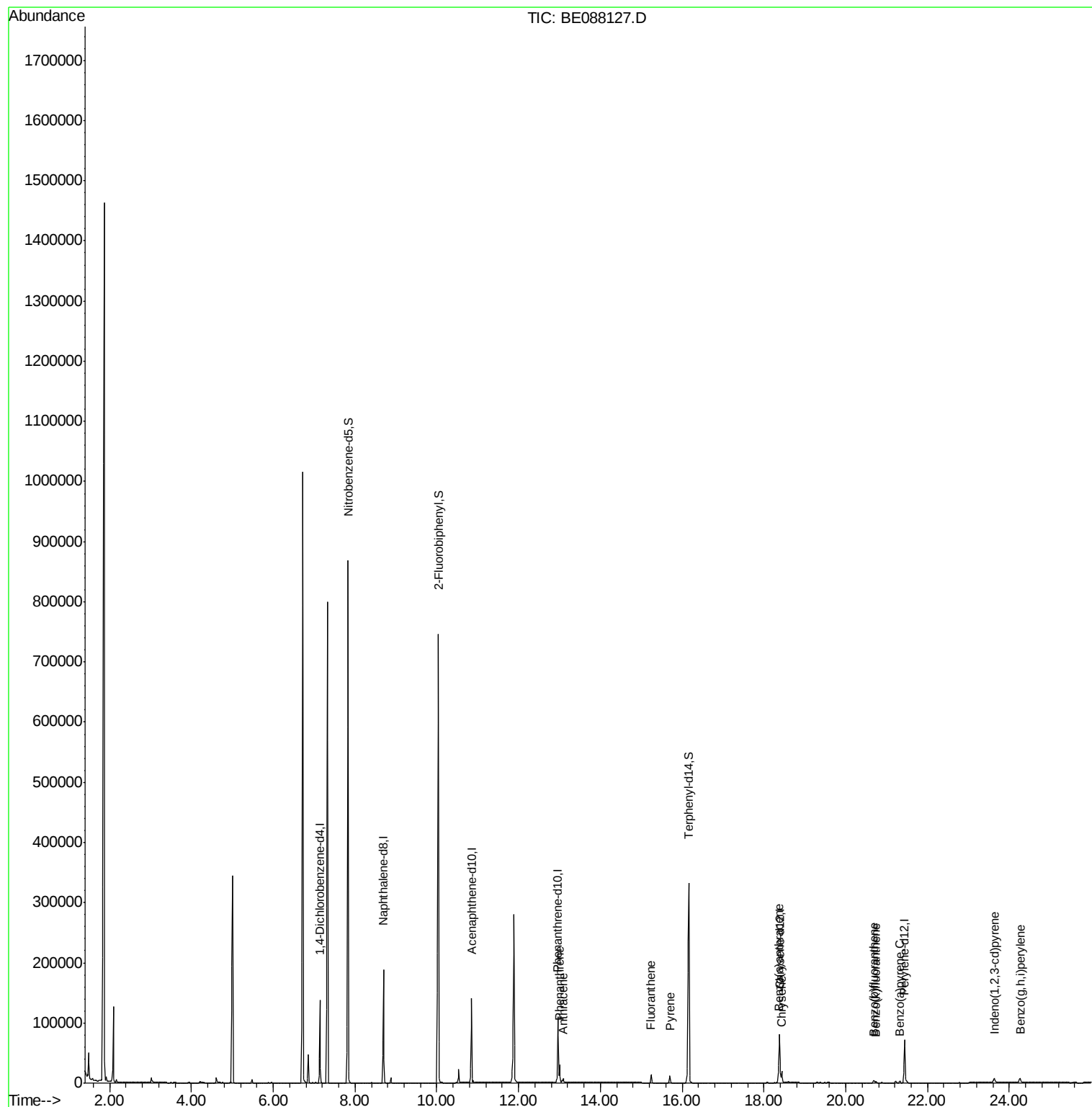
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Phenanthrene	13.01	178	32821	0.11	ng	# 92
14) Anthracene	13.09	178	6468	0.06	ng	93
15) Fluoranthene	15.24	202	14177	0.55	ng	100
17) Pyrene	15.70	202	12504	0.48	ng	97
19) Benzo(a)anthracene	18.36	228	23031	0.27	ng	97
20) Chrysene	18.43	228	26262	0.31	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	14930	0.16	ng	# 82
23) Benzo(b)fluoranthene	20.68	252	7849	0.36	ng	# 94
24) Benzo(k)fluoranthene	20.74	252	3421	0.15	ng	# 92
25) Benzo(a)pyrene	21.32	252	4816	0.24	ng	95
27) Benzo(g,h,i)perylene	24.26	276	13883	0.16	ng	94

(#) = 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: BE088127.D

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Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

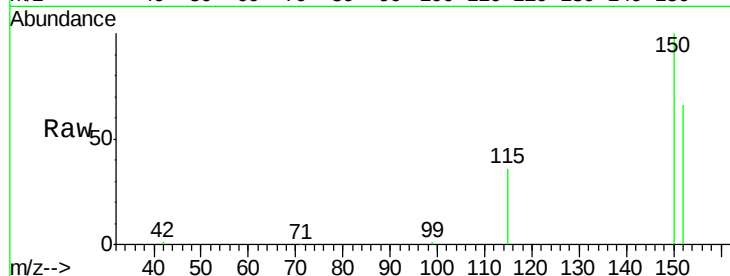
Tgt Ion:152 Resp: 44981

Ion Ratio Lower Upper

152 100

150 151.7 129.2 193.8

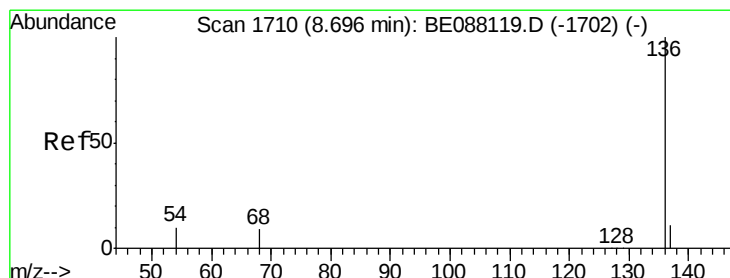
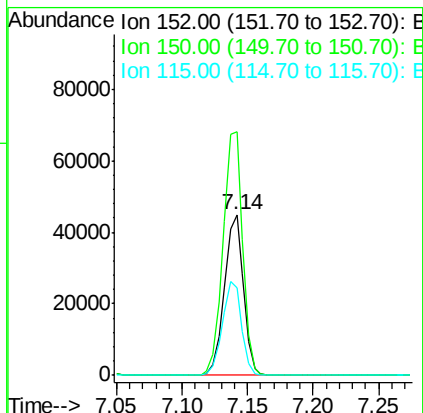
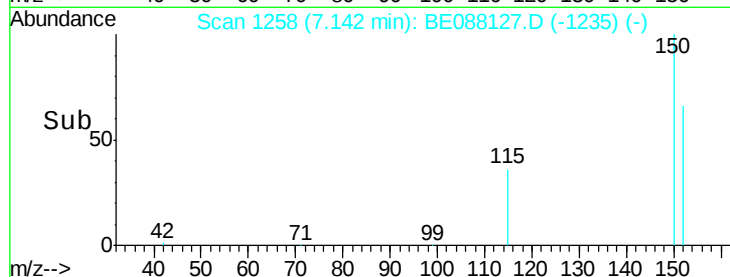
115 54.2 49.3 73.9



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: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

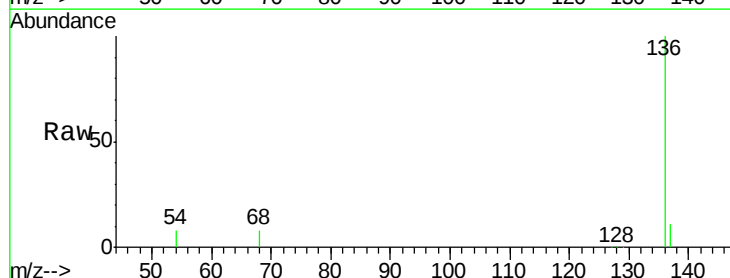
Tgt Ion:136 Resp: 161850

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

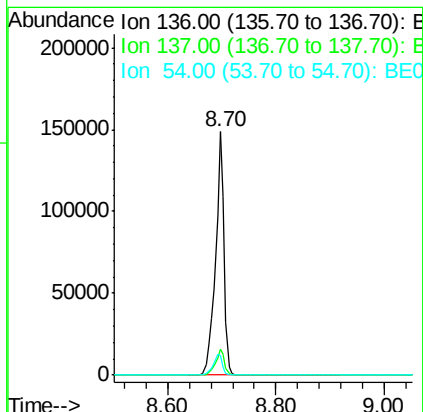
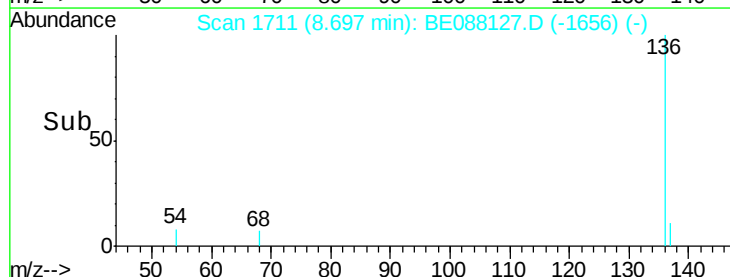
54 7.9 7.7 11.5

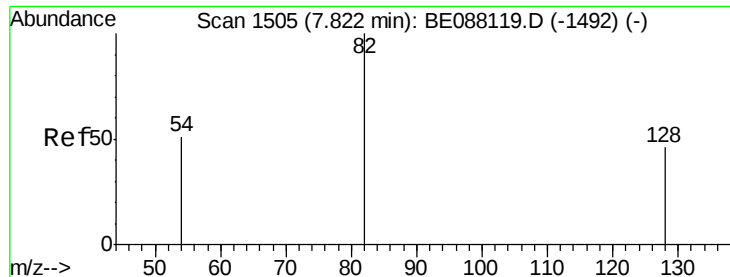


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 55.33 ng

RT: 7.84 min Scan# 1511

Delta R.T. 0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

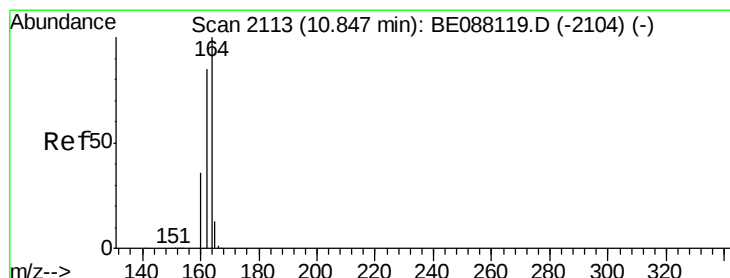
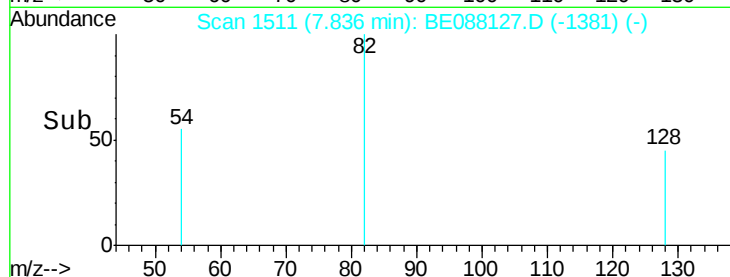
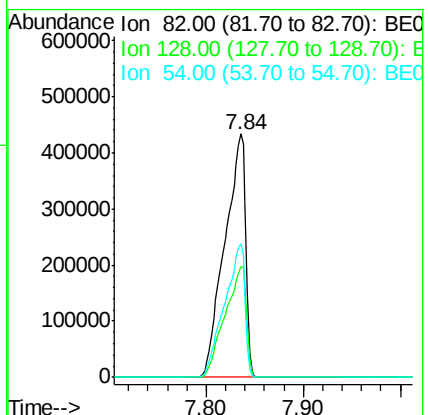
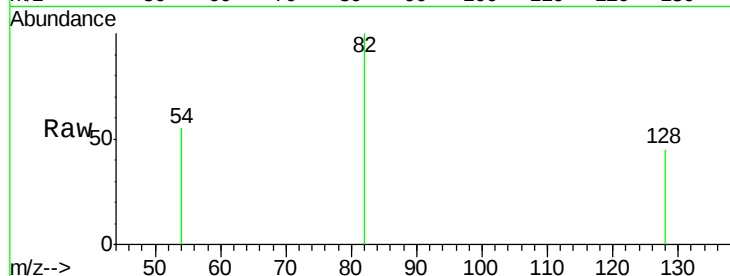
Tgt Ion: 82 Resp: 645511

Ion Ratio Lower Upper

82 100

128 45.5 37.1 55.7

54 54.8 41.1 61.7



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

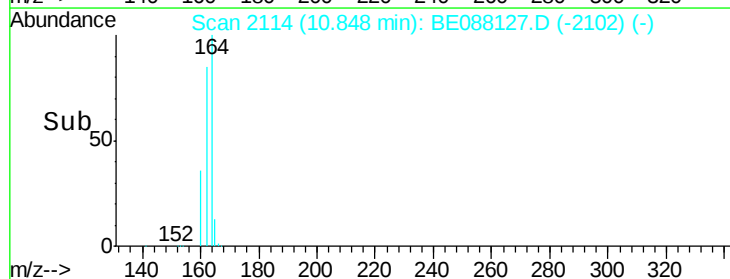
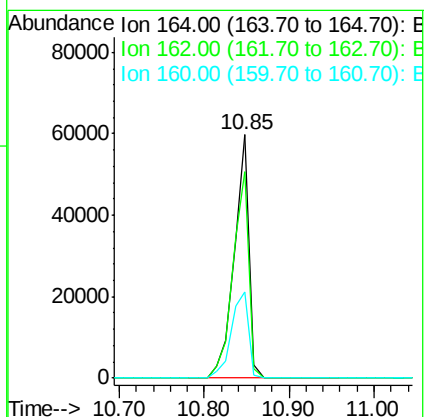
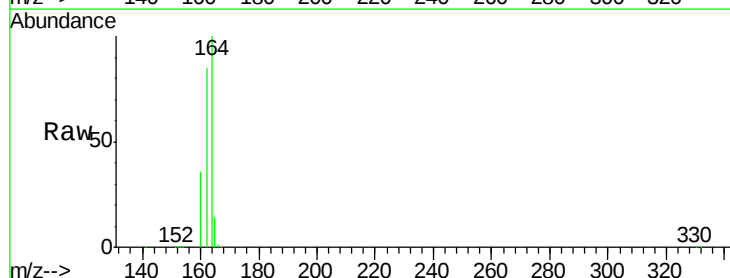
Tgt Ion: 164 Resp: 72102

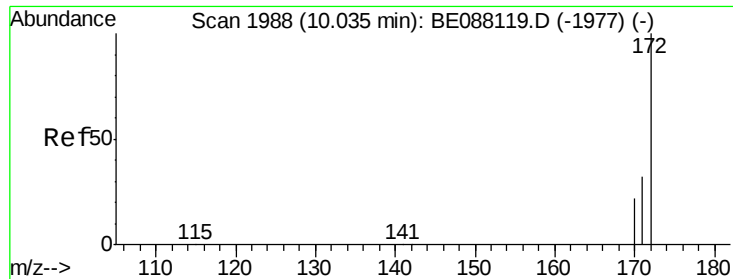
Ion Ratio Lower Upper

164 100

162 84.6 68.3 102.5

160 35.6 28.7 43.1

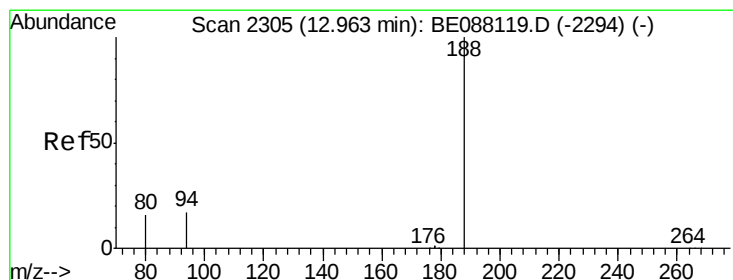
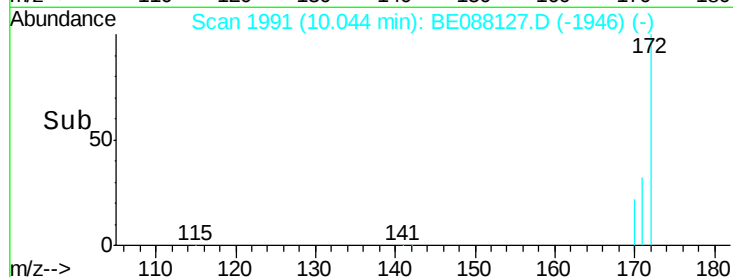
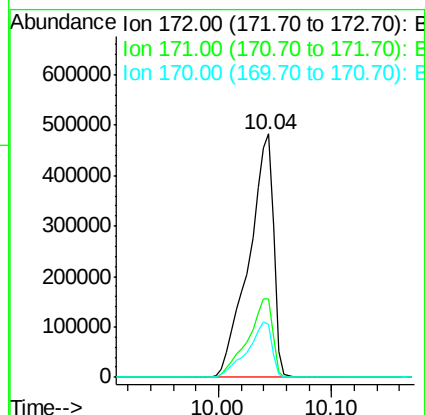
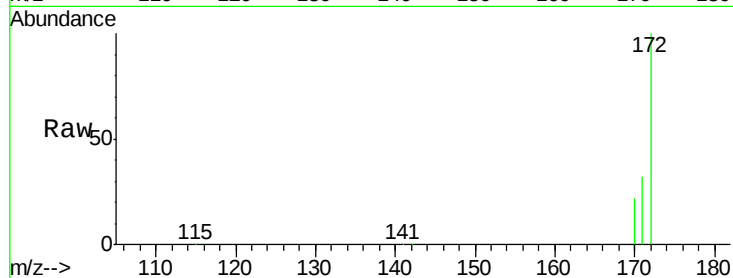




#8
2-Fluorobiphenyl
Concen: 36.07 ng
RT: 10.04 min Scan# 1991
Delta R.T. 0.01 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

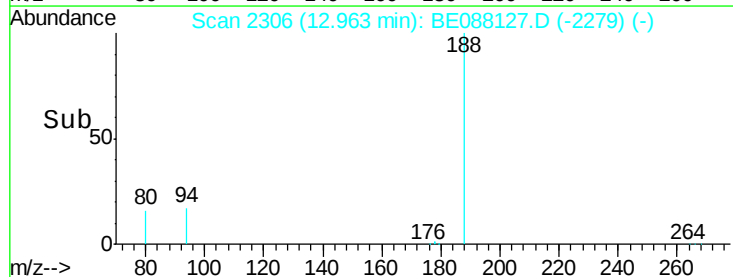
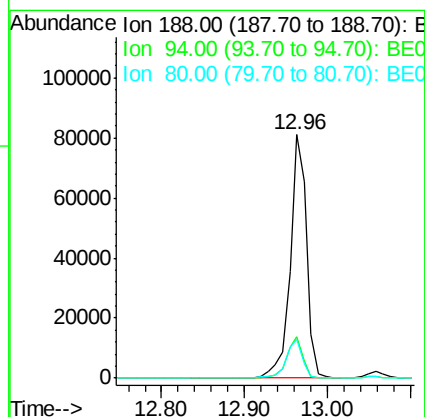
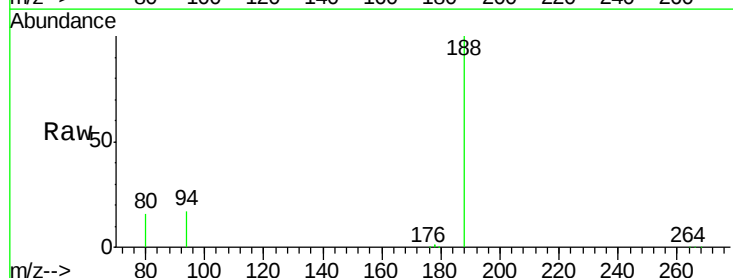
Instrument :
BNA_E
ClientSampleId :
YS19-SS25-1014

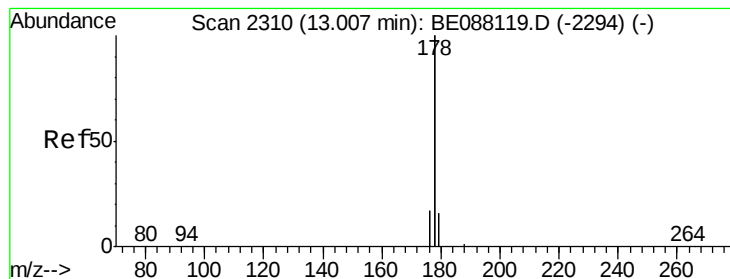
Tgt Ion:172 Resp: 718281
Ion Ratio Lower Upper
172 100
171 32.4 25.4 38.2
170 21.6 17.4 26.2



#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. -0.00 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

Tgt Ion:188 Resp: 136467
Ion Ratio Lower Upper
188 100
94 16.8 13.9 20.9
80 15.8 12.9 19.3





#13

Phenanthrene

Concen: 0.11 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

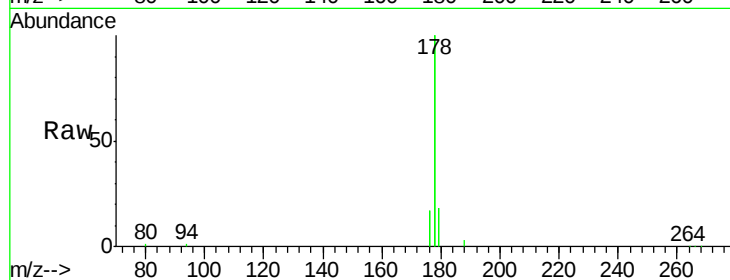
Tgt Ion:178 Resp: 32821

Ion Ratio Lower Upper

178 100

176 20.3 12.5 18.7#

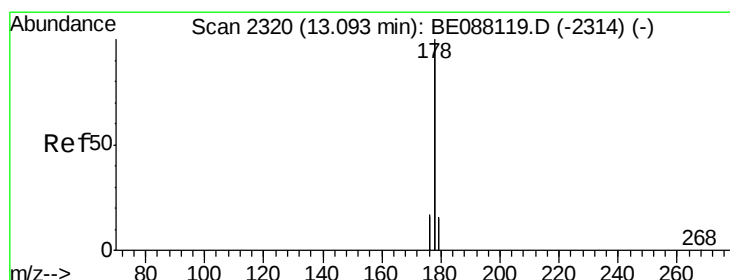
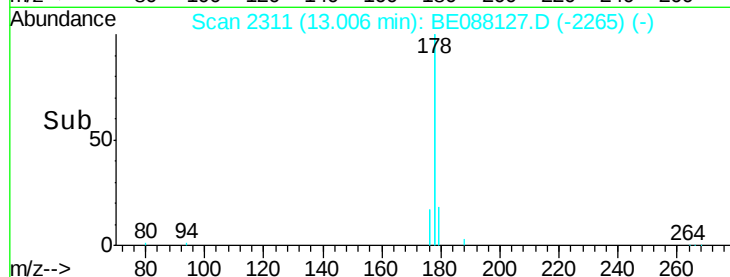
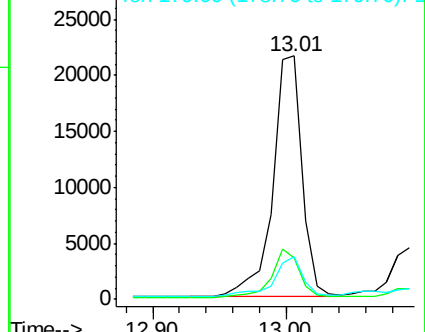
179 19.2 13.5 20.3



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: 0.06 ng

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

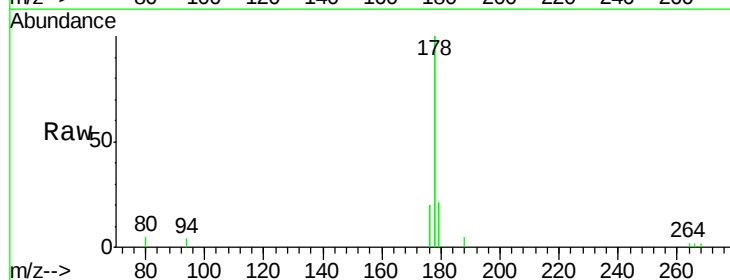
Tgt Ion:178 Resp: 6468

Ion Ratio Lower Upper

178 100

176 21.3 14.6 21.8

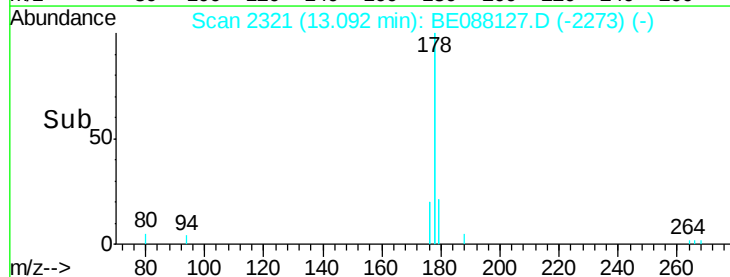
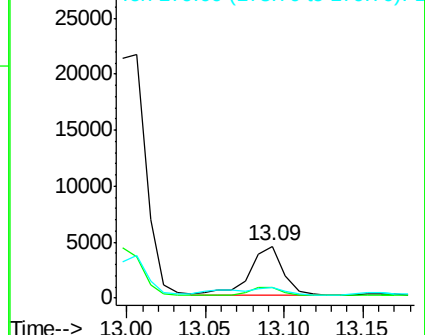
179 18.3 12.5 18.7

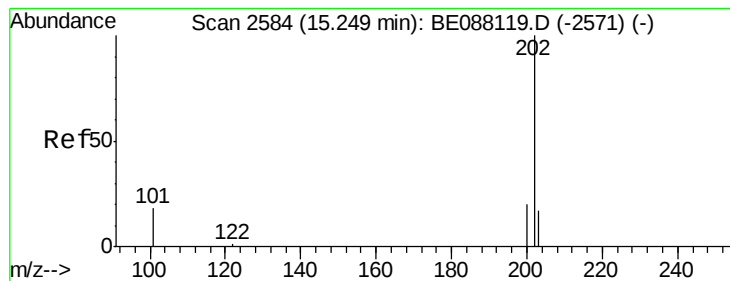


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.55 ng

RT: 15.24 min Scan# 2584

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

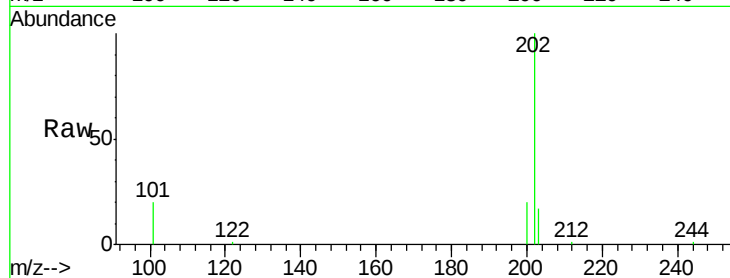
Tgt Ion:202 Resp: 14177

Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

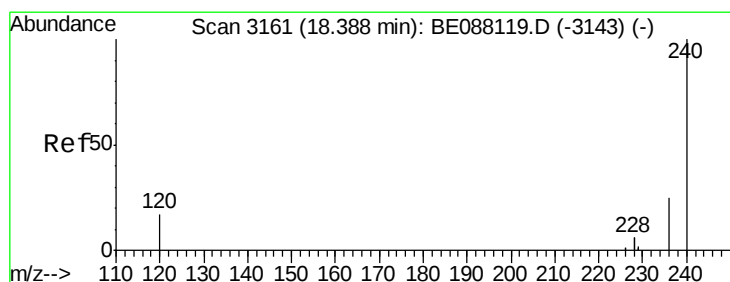
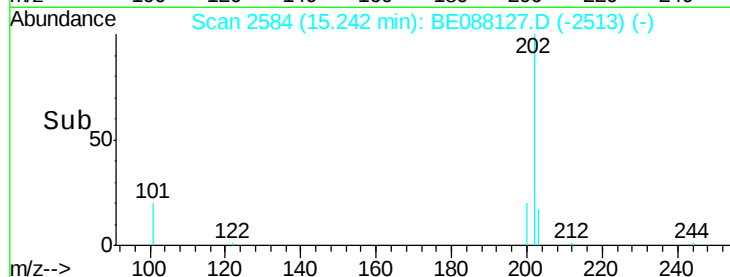
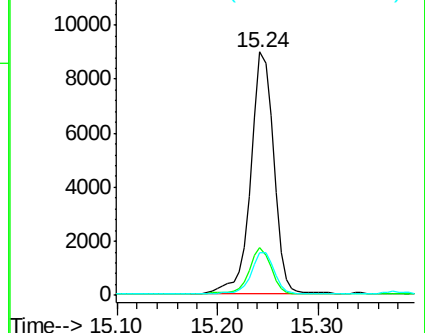
203 17.0 13.5 20.3



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# 3161

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

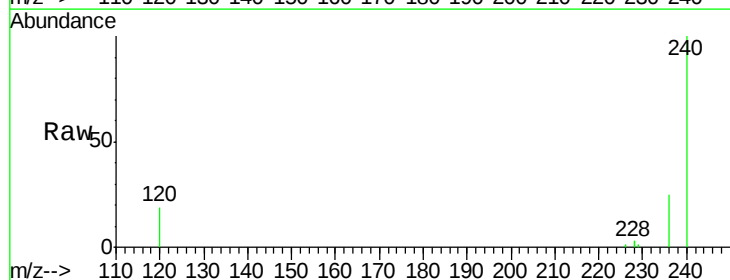
Tgt Ion:240 Resp: 95990

Ion Ratio Lower Upper

240 100

120 19.2 13.9 20.9

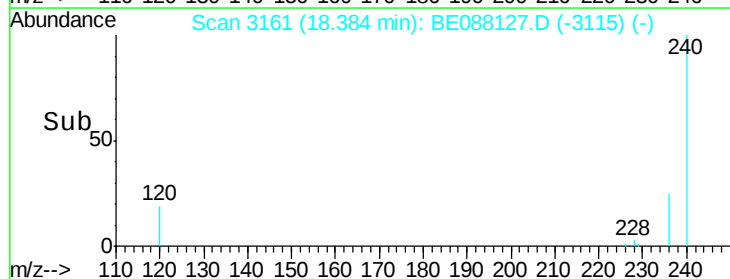
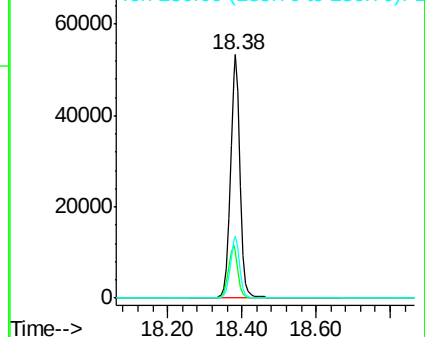
236 25.5 19.9 29.9

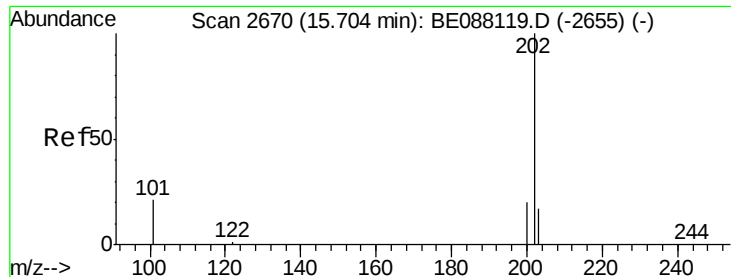


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

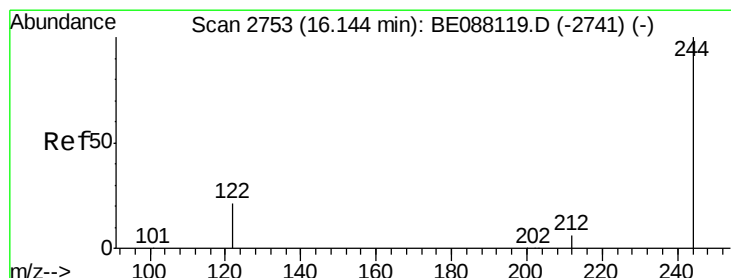
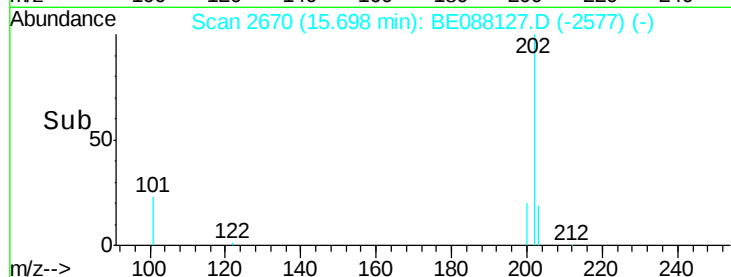
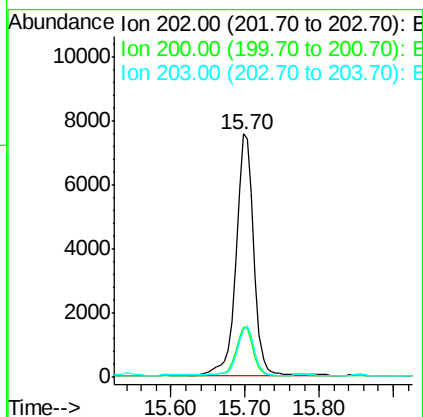
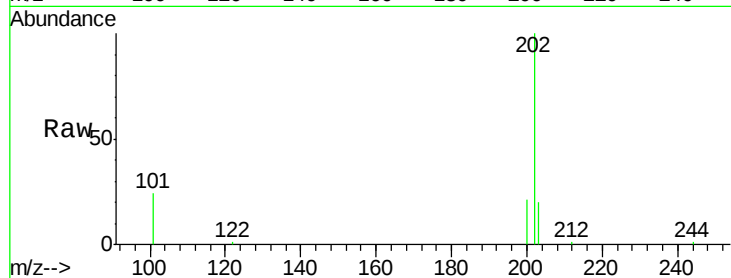




#17
 Pyrene
 Concen: 0.48 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.01 min
 Lab File: BE088127.D
 Acq: 21 Oct 2014 6:18

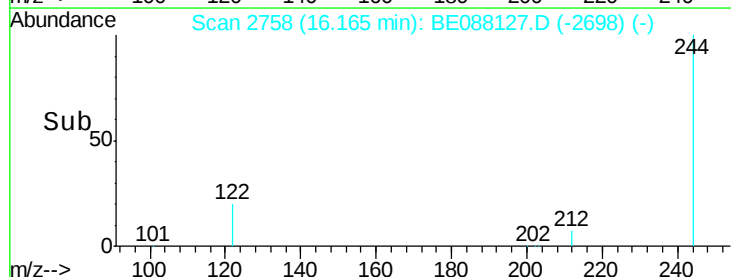
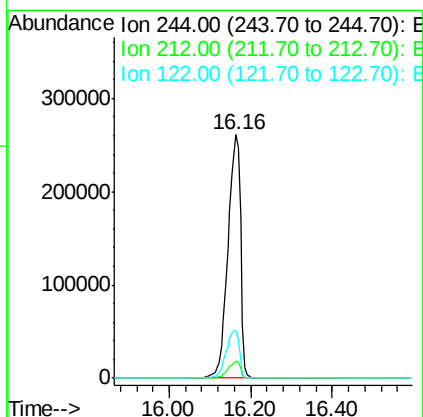
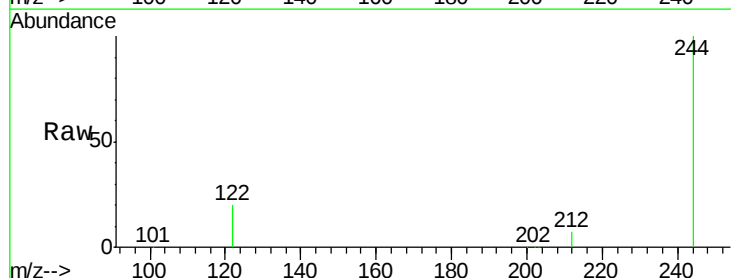
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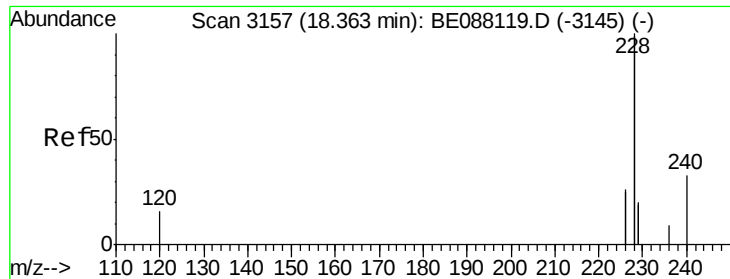
Tgt Ion: 202 Resp: 12504
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 19.9 13.9 20.9



#18
 Terphenyl-d14
 Concen: 36.79 ng
 RT: 16.16 min Scan# 2758
 Delta R.T. 0.02 min
 Lab File: BE088127.D
 Acq: 21 Oct 2014 6:18

Tgt Ion: 244 Resp: 568336
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 19.7 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.27 ng

RT: 18.36 min Scan# 3157

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

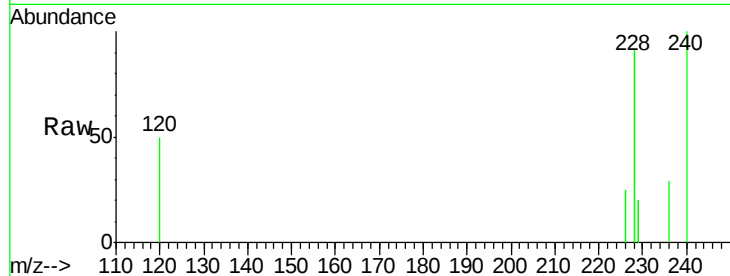
Tgt Ion:228 Resp: 23031

Ion Ratio Lower Upper

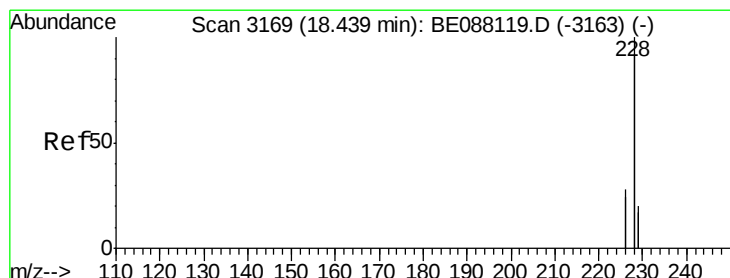
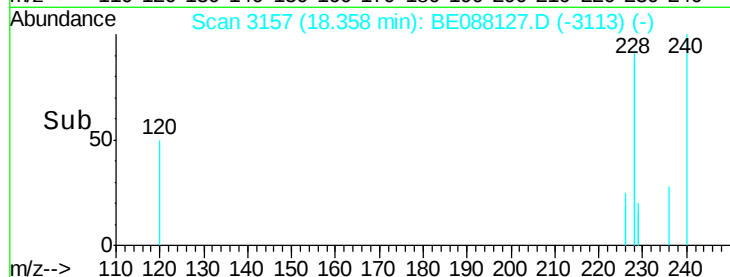
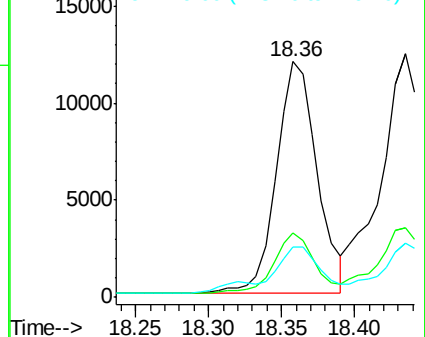
228 100

226 27.1 20.8 31.2

229 21.4 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: 0.31 ng

RT: 18.43 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

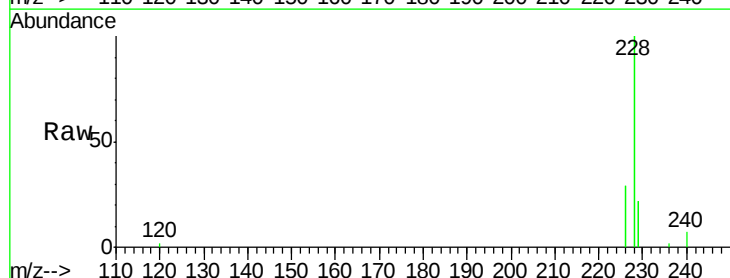
Tgt Ion:228 Resp: 26262

Ion Ratio Lower Upper

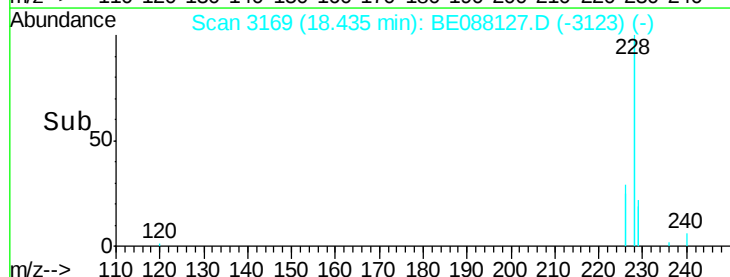
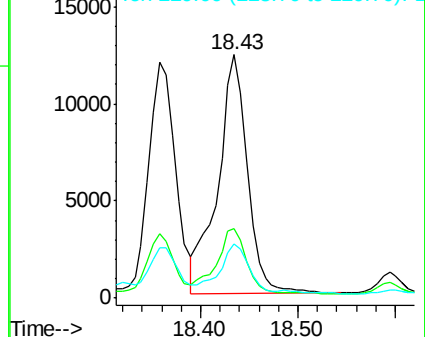
228 100

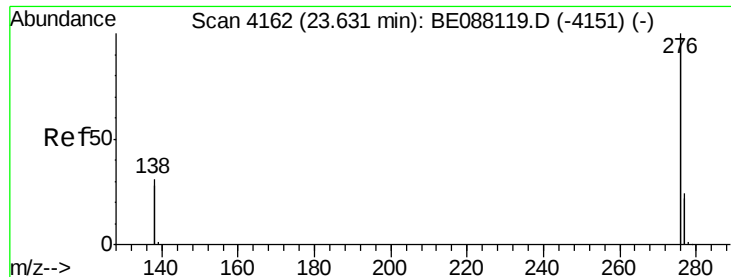
226 28.5 22.7 34.1

229 22.0 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: 0.16 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

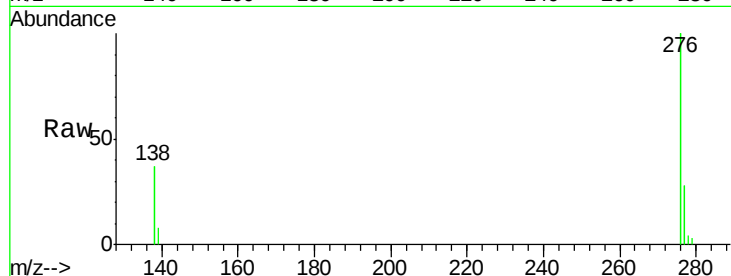
Tgt Ion:276 Resp: 14930

Ion Ratio Lower Upper

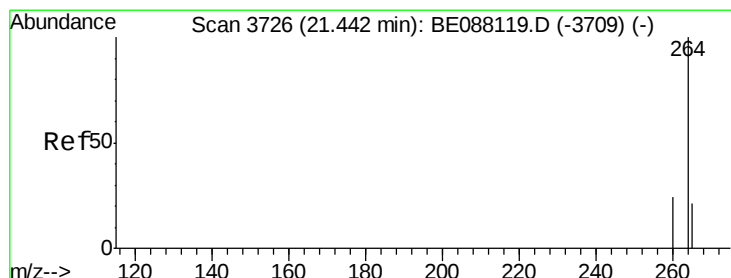
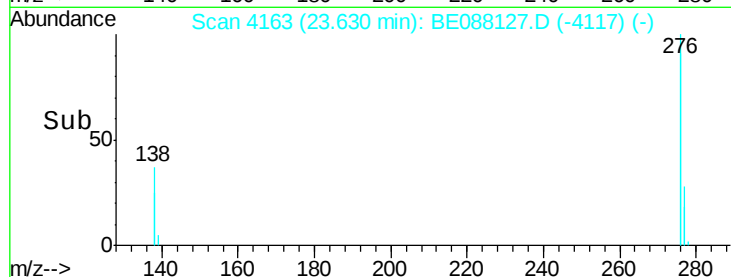
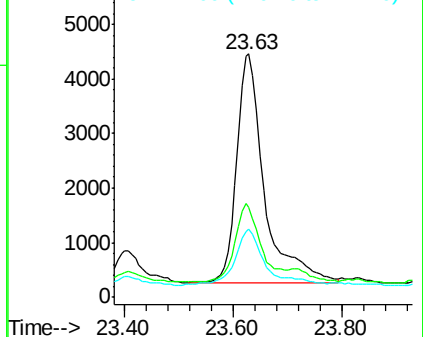
276 100

138 31.7 18.5 27.7#

277 26.4 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# 3727

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

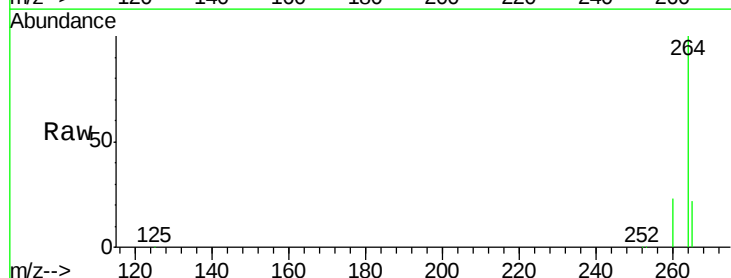
Tgt Ion:264 Resp: 92522

Ion Ratio Lower Upper

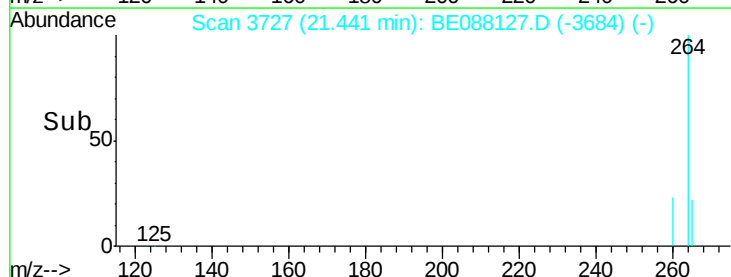
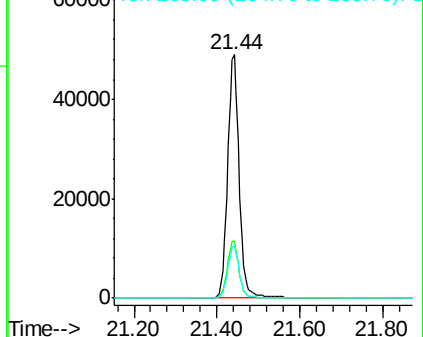
264 100

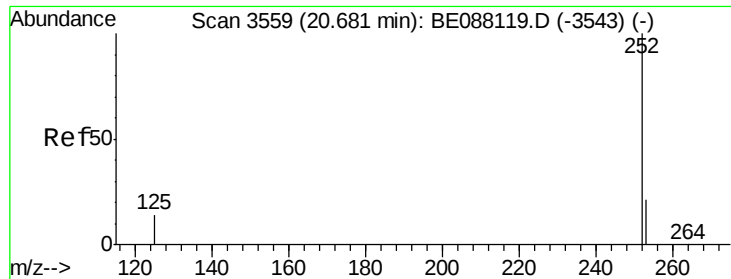
260 23.4 19.0 28.4

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: 0.36 ng

RT: 20.68 min Scan# 3560

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

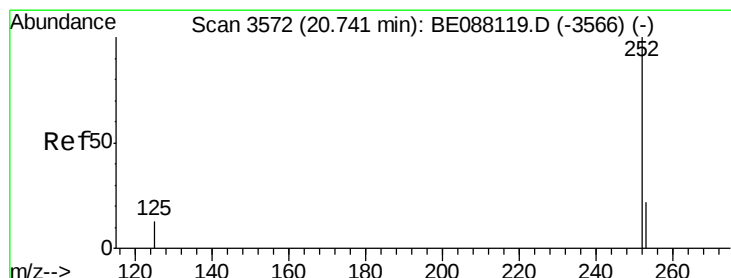
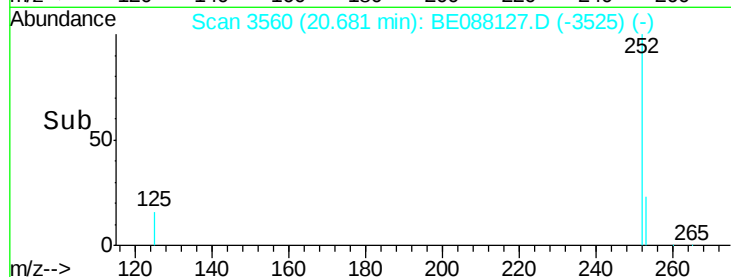
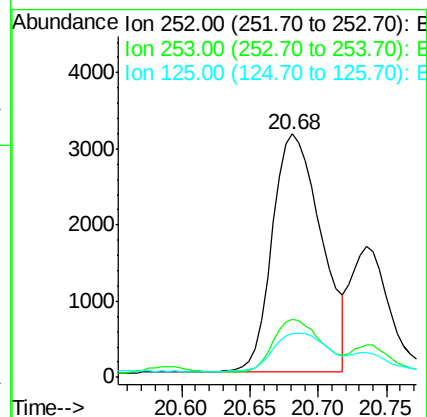
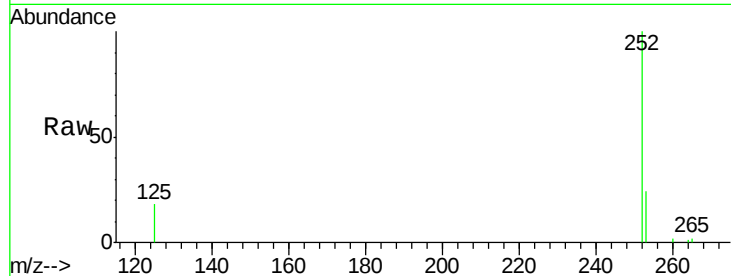
Tgt Ion:252 Resp: 7849

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.0

125 18.1 11.8 17.8#



#24

Benzo(k)fluoranthene

Concen: 0.15 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

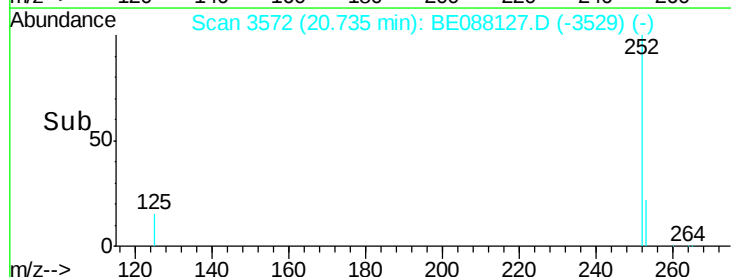
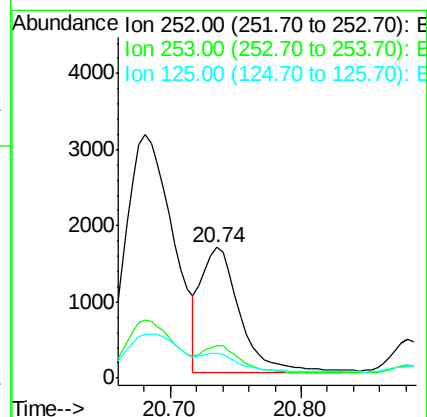
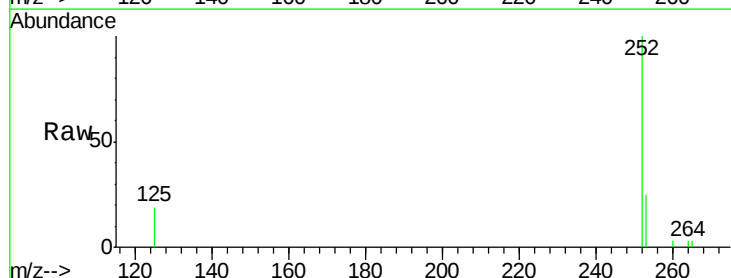
Tgt Ion:252 Resp: 3421

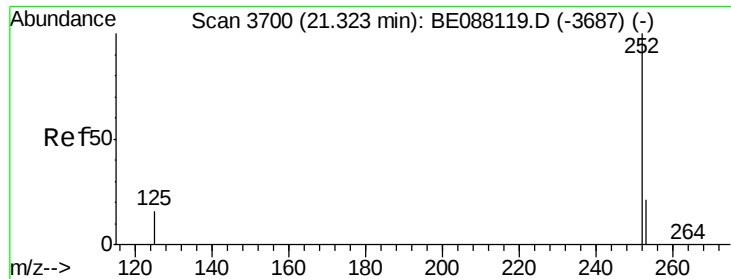
Ion Ratio Lower Upper

252 100

253 24.8 17.6 26.4

125 19.2 11.5 17.3#

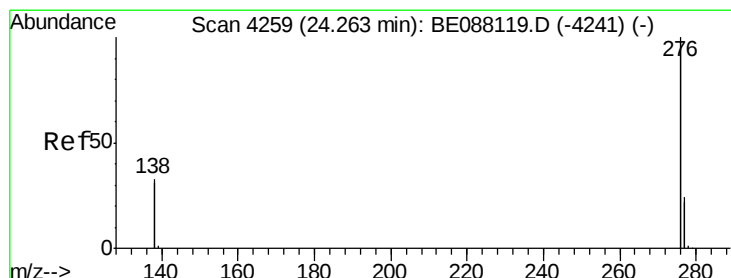
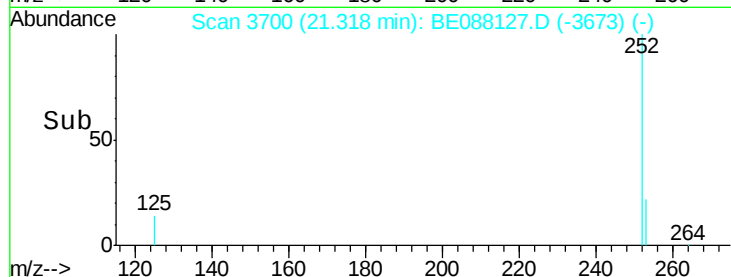
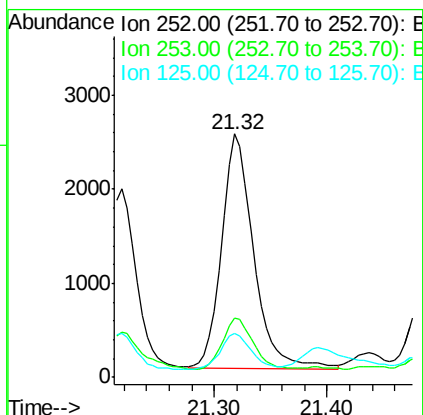
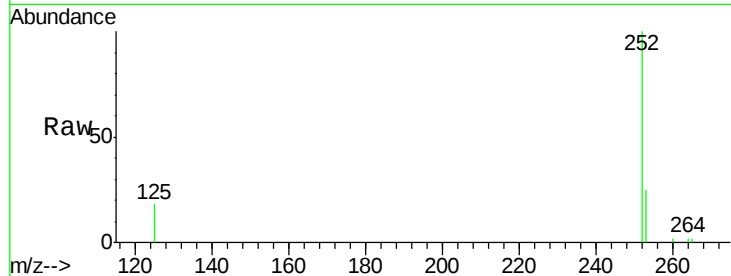




#25
Benzo(a)pyrene
Concen: 0.24 ng
RT: 21.32 min Scan# 3700
Delta R.T. -0.01 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

Instrument :
BNA_E
ClientSampleId :
YS19-SS25-1014

Tgt Ion: 252 Resp: 4816
Ion Ratio Lower Upper
252 100
253 24.5 17.5 26.3
125 18.1 13.0 19.6



#27
Benzo(g,h,i)perylene
Concen: 0.16 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

Tgt Ion: 276 Resp: 13883
Ion Ratio Lower Upper
276 100
277 27.5 19.2 28.8
138 36.7 26.6 40.0

