

Data Path : Z:\HPCHEM1\BNA E\DATA\BE111616\
 Data File : BE092535.D
 Acq On : 16 Nov 2016 14:43
 Operator : UM/SJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Quant Time: Nov 16 15:37:30 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE111616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 16 13:29:35 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	8219	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	41804	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	30265	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	60544	5.00	ng	0.00
24) Chrysene-d12	21.72	240	85473	5.00	ng	0.00
31) Perylene-d12	24.08	264	70675	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0d	0.00	ng	
5) Phenol-d6	0.00	99	0d	0.00	ng	
8) Nitrobenzene-d5	0.00	82	0d	0.00	ng	
13) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
14) 2-Fluorobiphenyl	13.41	172	71955	9.61	ng	-0.02
26) Terphenyl-d14	20.16	244	105378	10.15	ng	-0.02

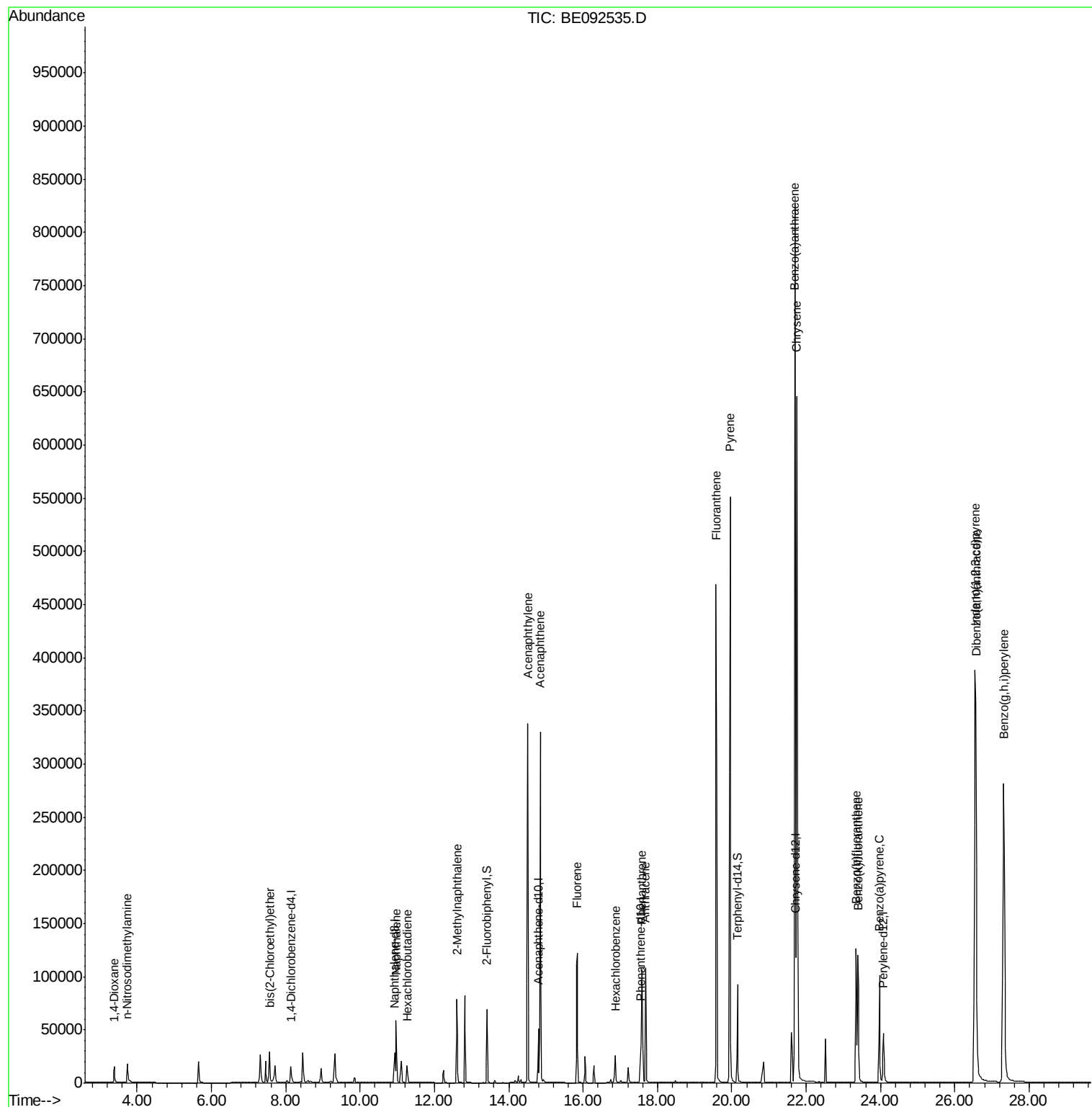
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.39	88	9451	7.42	ng	92
3) n-Nitrosodimethylamine	3.73	42	14157	9.52	ng	98
6) bis(2-Chloroethyl)ether	7.57	93	24761	9.36	ng	91
9) Naphthalene	10.97	128	85114	9.41	ng	# 95
10) Hexachlorobutadiene	11.26	225	12454	9.08	ng	100
11) 2-Methylnaphthalene	12.60	142	58854	10.01	ng	92
15) Acenaphthylene	14.51	152	437330	10.07	ng	100
16) Acenaphthene	14.85	154	63546	9.06	ng	89
17) Fluorene	15.84	166	84778	9.62	ng	99
19) Hexachlorobenzene	16.87	284	25211	11.03	ng	# 67
21) Phenanthrene	17.58	178	141447	10.81	ng	# 93
22) Anthracene	17.67	178	144912	11.41	ng	99
23) Fluoranthene	19.58	202	672145	10.23	ng	100
25) Pyrene	19.95	202	724591	10.35	ng	99
27) Benzo(a)anthracene	21.70	228	832730m	9.61	ng	
28) Chrysene	21.75	228	735772m	7.93	ng	
30) Indeno(1,2,3-cd)pyrene	26.55	276	806556	8.53	ng	97
32) Benzo(b)fluoranthene	23.35	252	178065m	6.68	ng	
33) Benzo(k)fluoranthene	23.39	252	177640	6.37	ng	94
34) Benzo(a)pyrene	23.97	252	169813	9.30	ng	# 95
35) Dibenzo(a,h)anthracene	26.56	278	168659	9.81	ng	94
36) Benzo(g,h,i)perylene	27.31	276	692195	9.78	ng	97

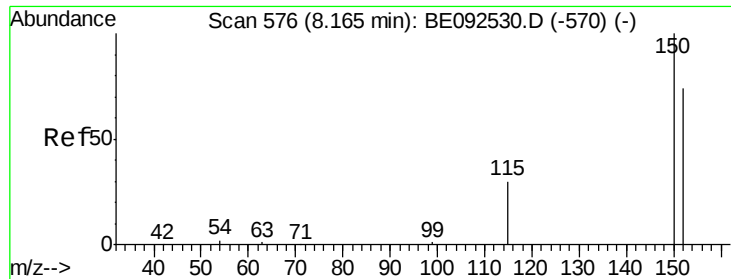
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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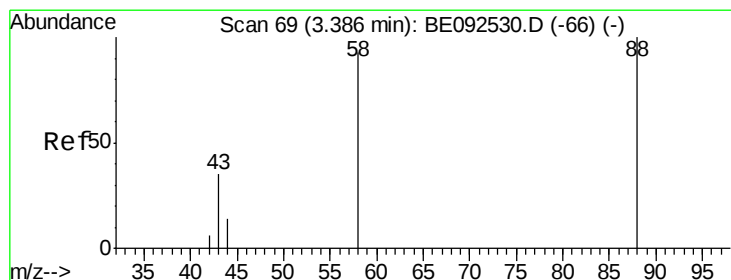
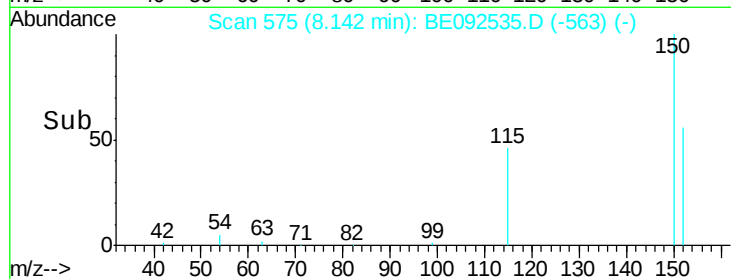
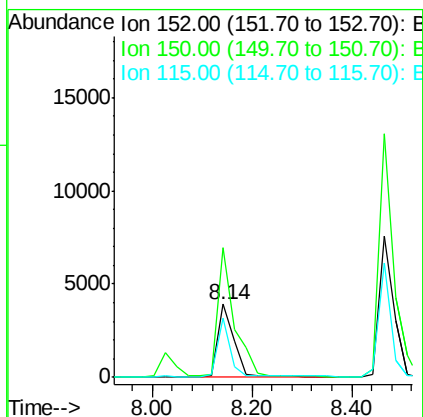
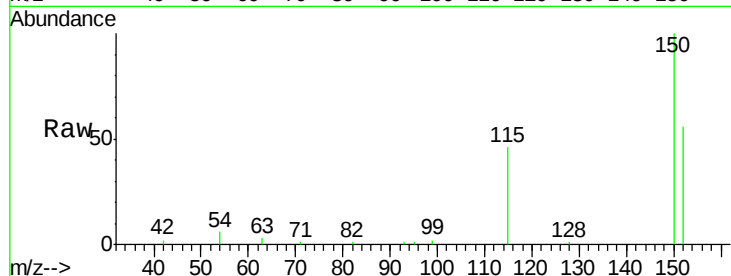




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.14 min Scan# 575
 Delta R.T. -0.02 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

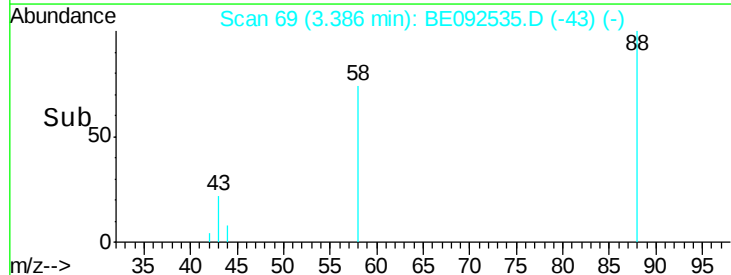
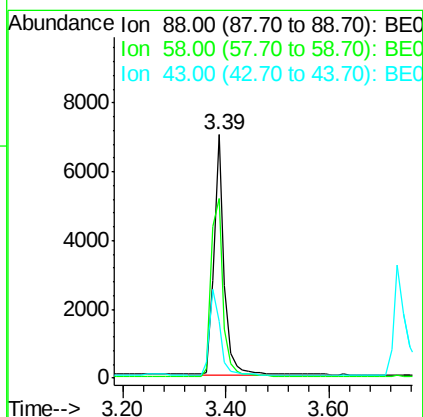
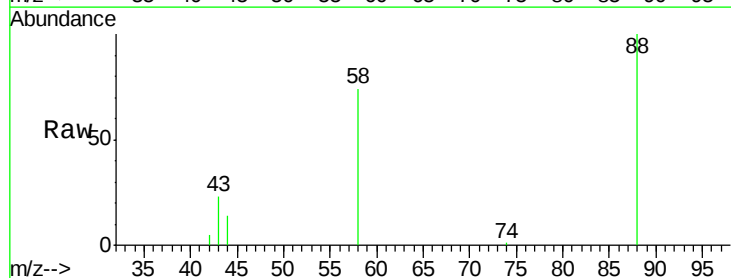
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

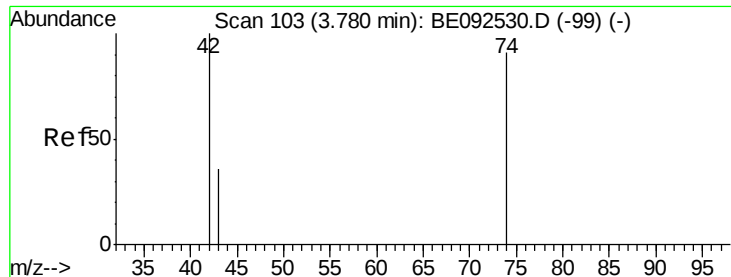
Tot Ion:152 Resp: 8219
 Ion Ratio Lower Upper
 152 100
 150 178.1 106.0 159.0#
 115 82.2 31.2 46.8#



#2
 1,4-Dioxane
 Concen: 7.42 ng
 RT: 3.39 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

Tgt Ion: 88 Resp: 9451
 Ion Ratio Lower Upper
 88 100
 58 88.1 63.6 95.4
 43 36.9 28.0 42.0



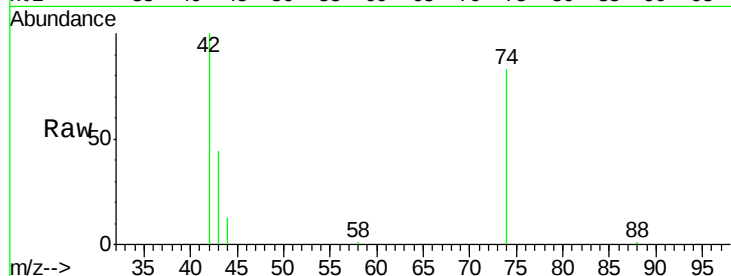


#3

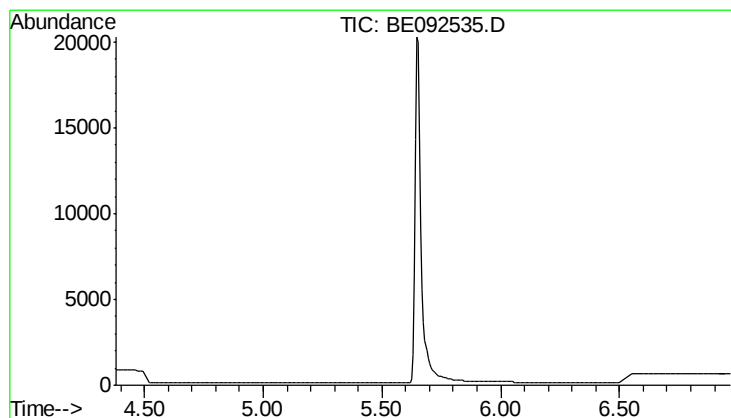
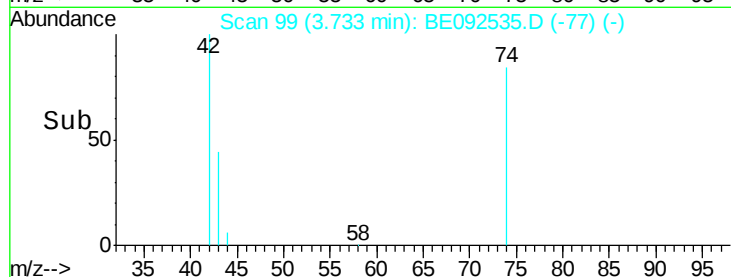
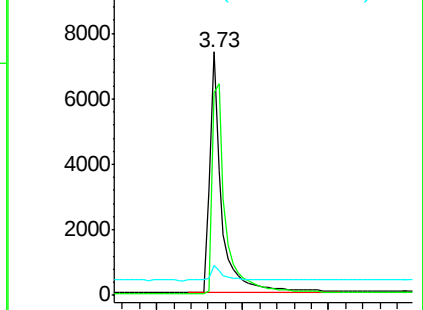
n-Nitrosodimethylamine
Concen: 9.52 ng
RT: 3.73 min Scan# 99
Delta R.T. -0.05 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion: 42 Resp: 14157
Ion Ratio Lower Upper
42 100
74 104.9 86.0 129.0
44 6.2 5.1 7.7



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

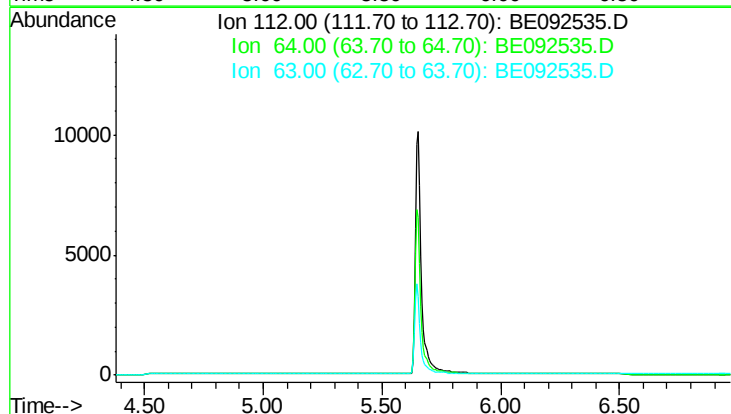


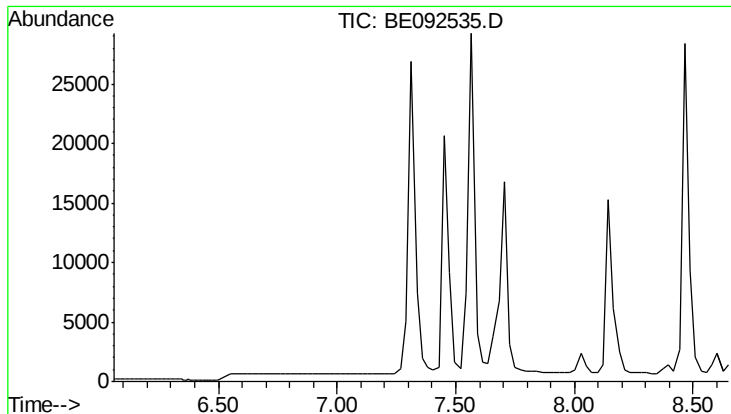
#4

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.67 min

Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Tgt Ion: 112
Sig Exp Ratio
112 100
64 66.9
63 34.9





#5

Phenol-d6

Concen: 0.00 ng

Expected RT: 7.36 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

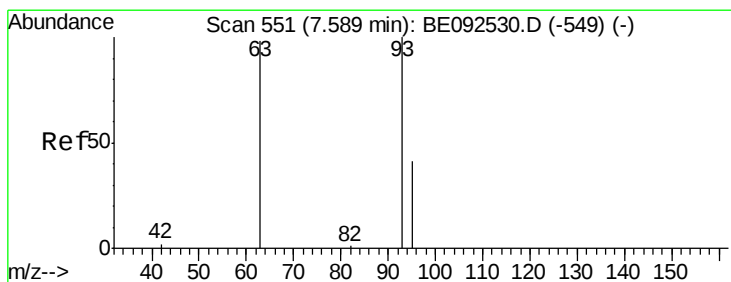
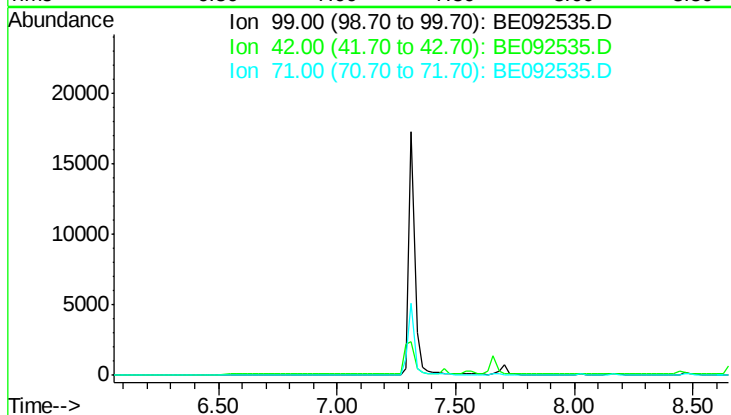
Tot Ion: 99

Sig Exp Ratio

99 100

42 20.0

71 38.2



#6

bis(2-Chloroethyl)ether

Concen: 9.36 ng

RT: 7.57 min Scan# 550

Delta R.T. -0.02 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

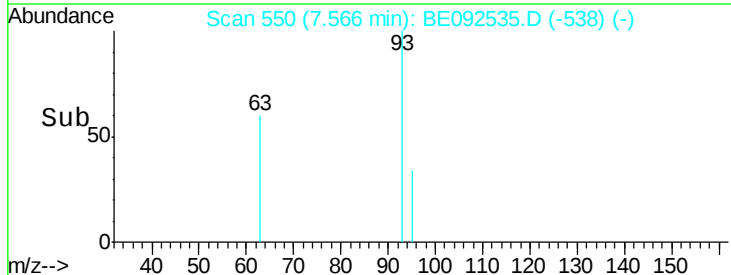
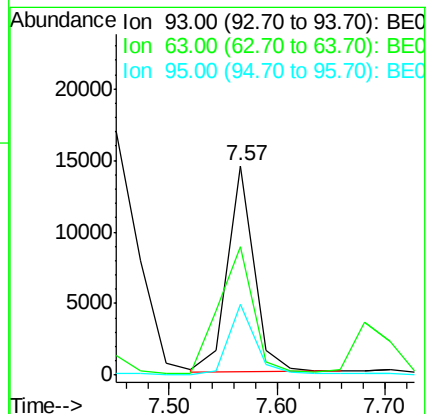
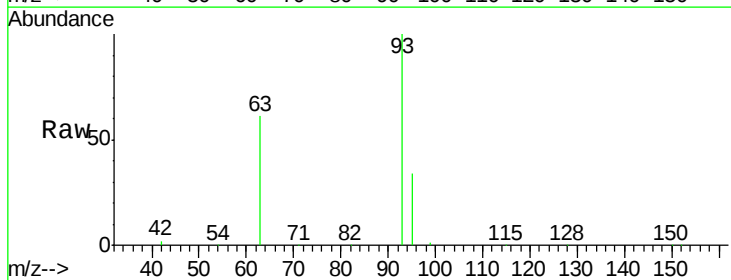
Tgt Ion: 93 Resp: 24761

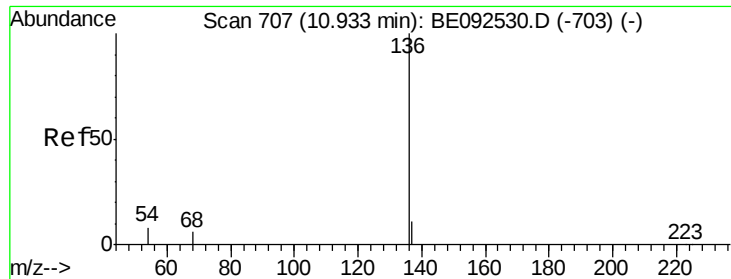
Ion Ratio Lower Upper

93 100

63 80.7 71.6 107.4

95 34.8 24.0 36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

Tot Ion:136 Resp: 41804

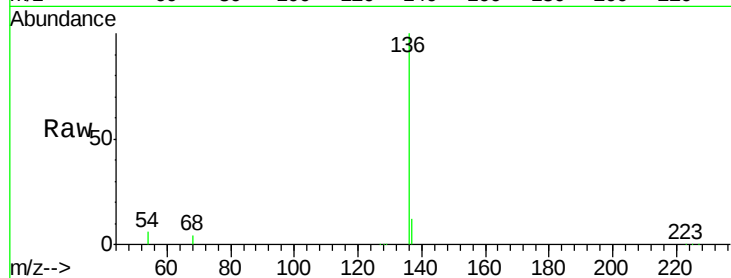
Ion Ratio Lower Upper

136 100

137 11.7 8.2 12.4

54 5.6 9.6 14.4#

68 4.5 6.7 10.1#

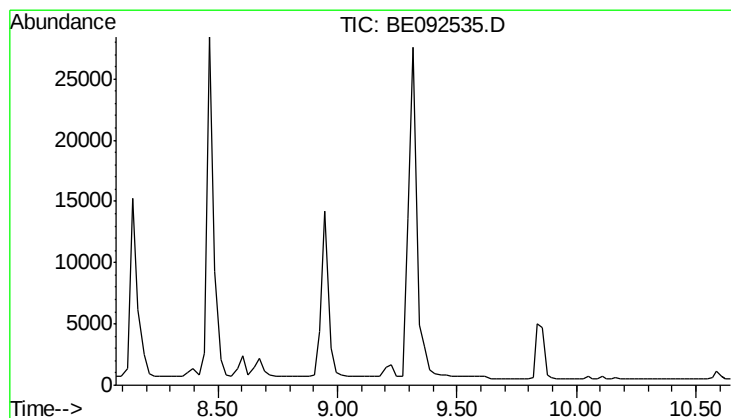
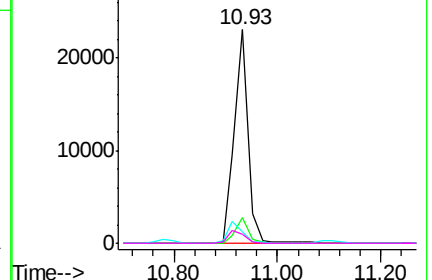
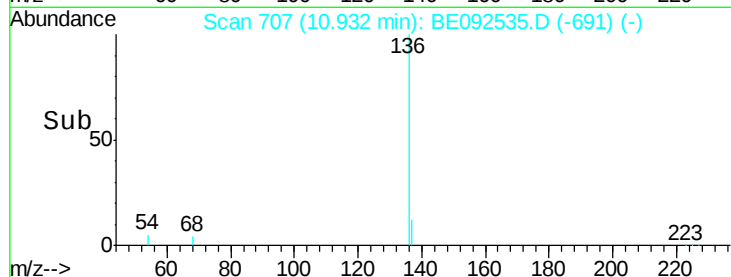


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.00 ng

Expected RT: 9.36 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

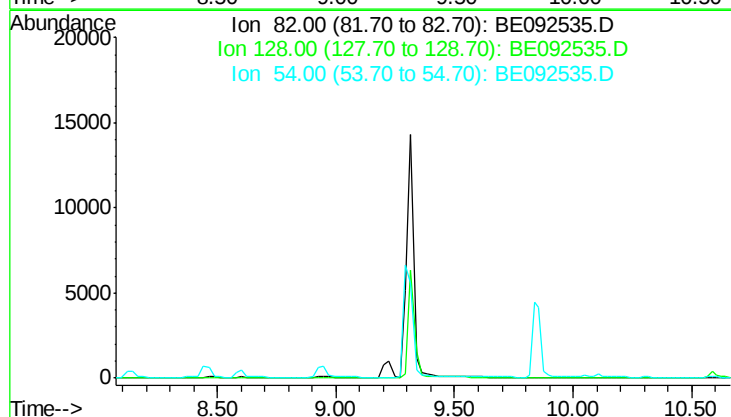
Tgt Ion: 82

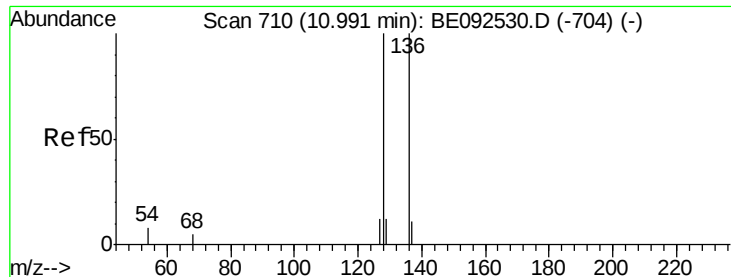
Sig Exp Ratio

82 100

128 48.7

54 56.0





#9

Naphthalene

Concen: 9.41 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

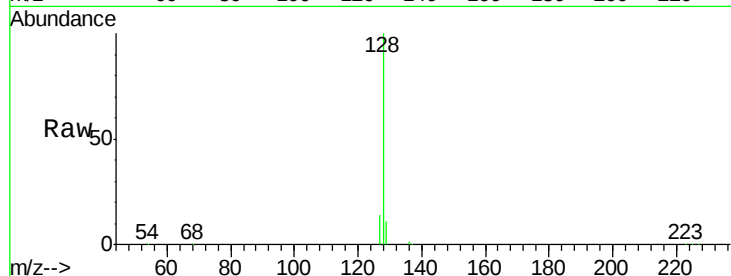
Tot Ion:128 Resp: 85114

Ion Ratio Lower Upper

128 100

129 10.5 11.2 16.8#

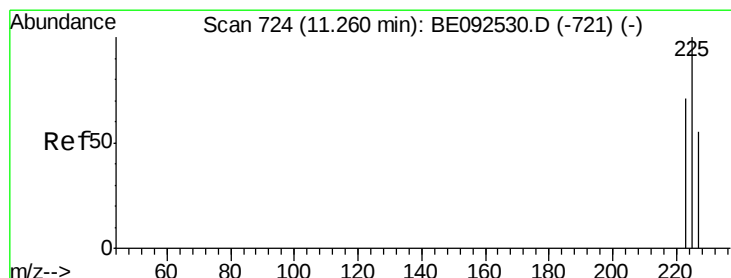
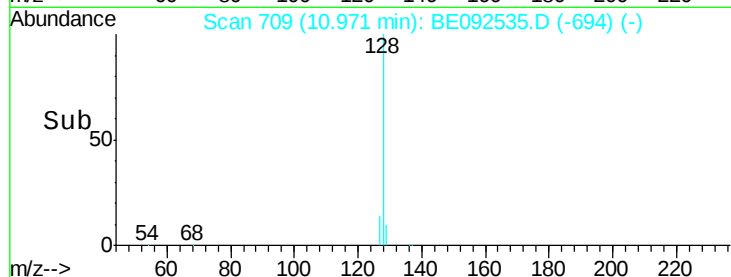
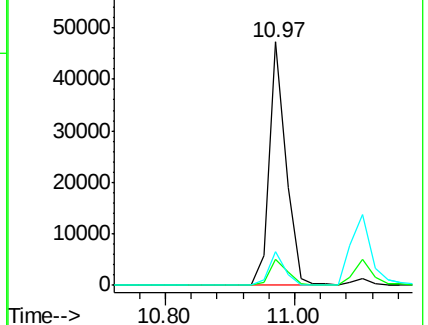
127 13.7 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 9.08 ng

RT: 11.26 min Scan# 724

Delta R.T. -0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

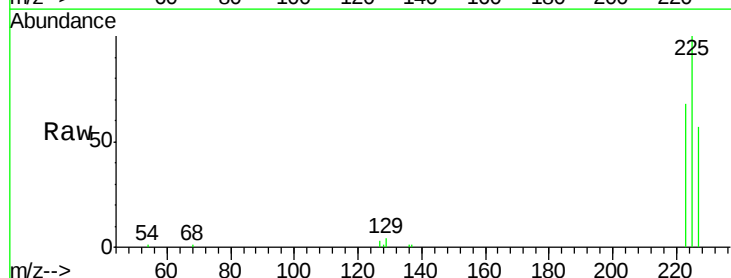
Tgt Ion:225 Resp: 12454

Ion Ratio Lower Upper

225 100

223 63.3 50.6 76.0

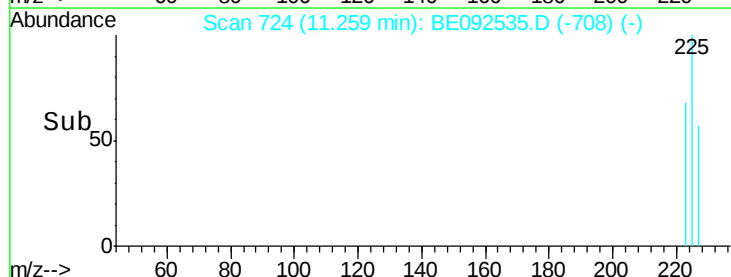
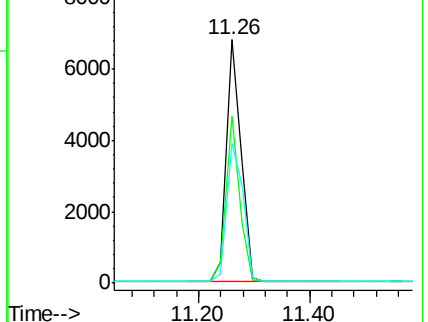
227 63.8 51.4 77.0



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene

Concen: 10.01 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.04 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

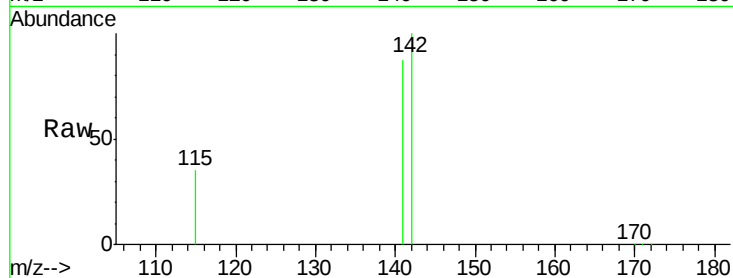
Tot Ion:142 Resp: 58854

Ion Ratio Lower Upper

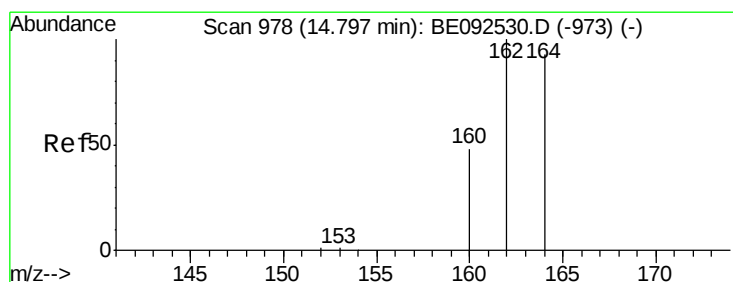
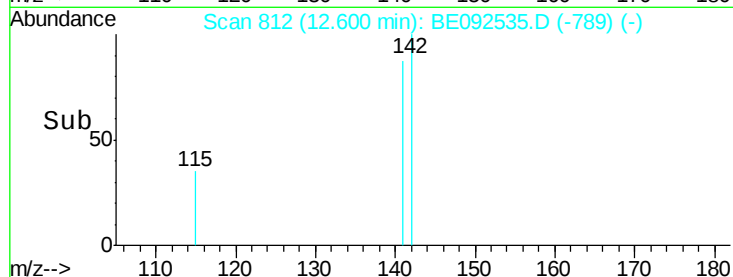
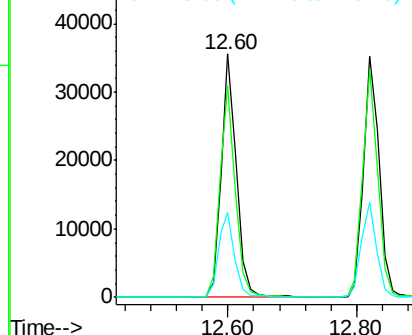
142 100

141 87.1 73.7 110.5

115 34.6 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

Delta R.T. 0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

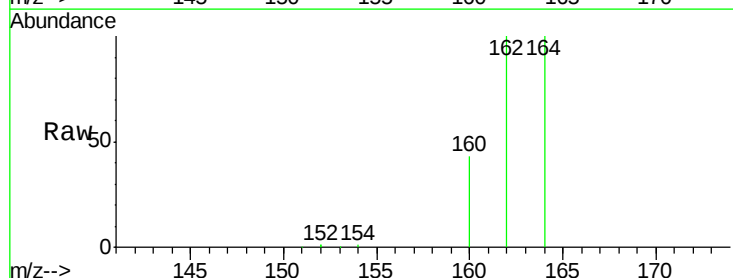
Tgt Ion:164 Resp: 30265

Ion Ratio Lower Upper

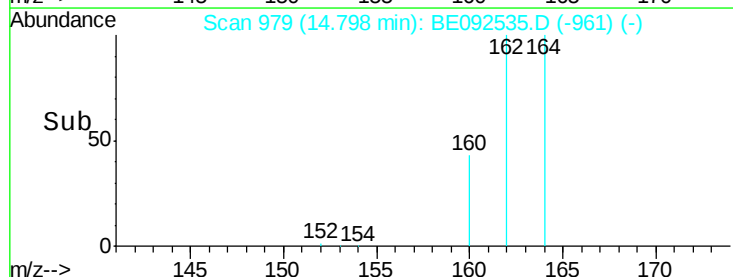
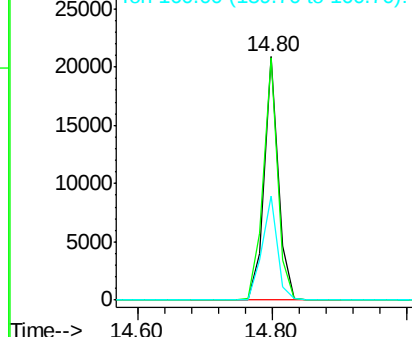
164 100

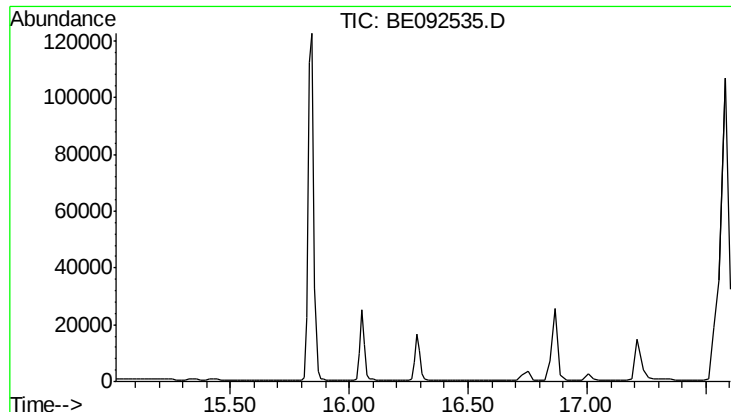
162 99.6 71.4 107.0

160 42.9 27.4 41.2#



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

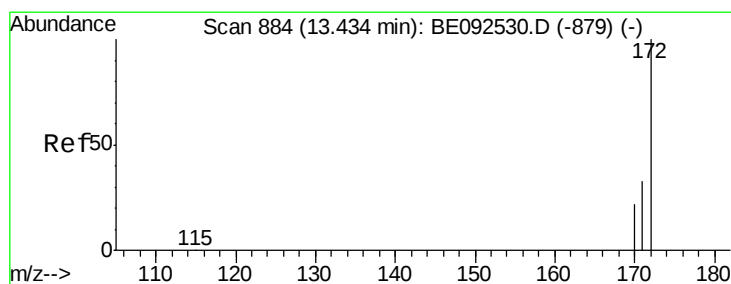
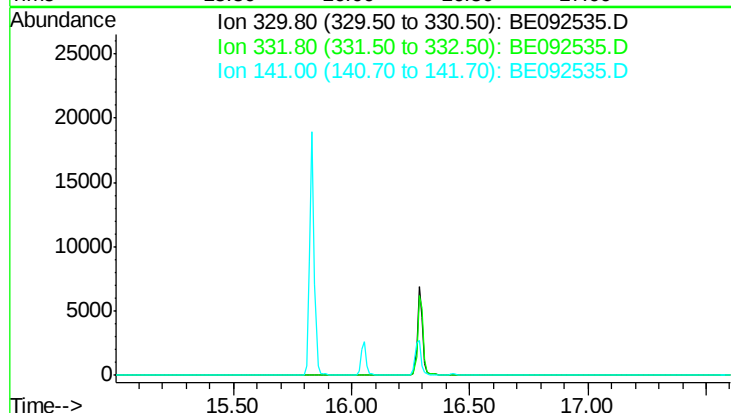




#13
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 16.31 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

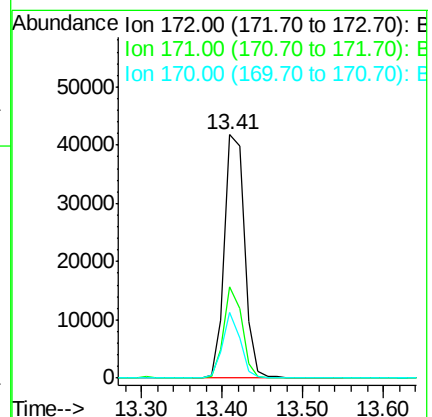
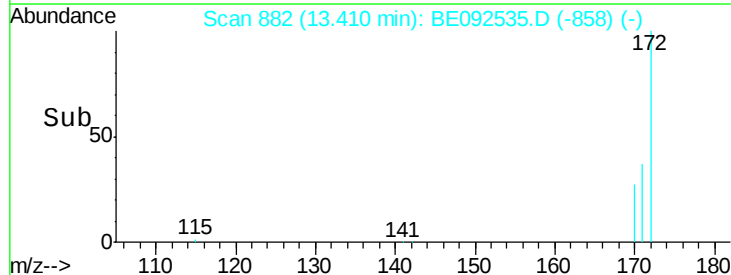
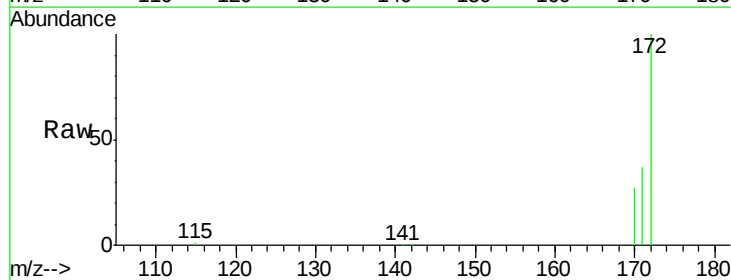
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

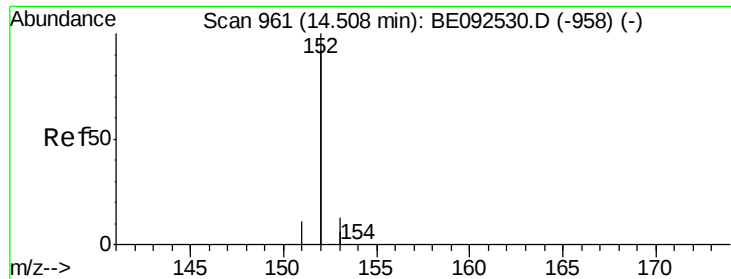
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 94.2
 141 38.8



#14
 2-Fluorobiphenyl
 Concen: 9.61 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

Tgt Ion: 172 Resp: 71955
 Ion Ratio Lower Upper
 172 100
 171 37.4 30.1 45.1
 170 27.0 21.8 32.6





#15

Acenaphthylene

Concen: 10.07 ng

RT: 14.51 min Scan# 962

Delta R.T. 0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

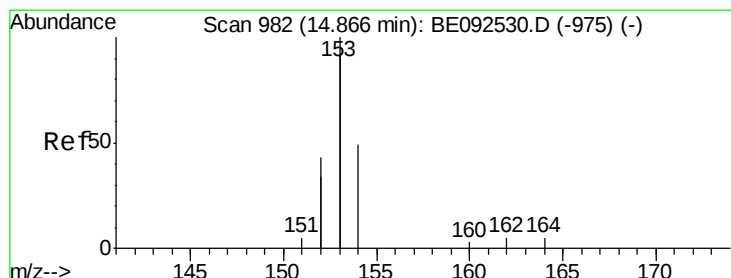
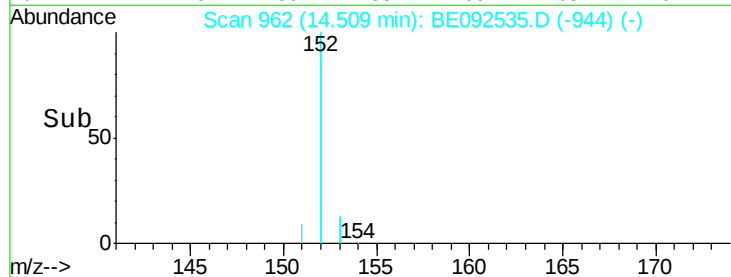
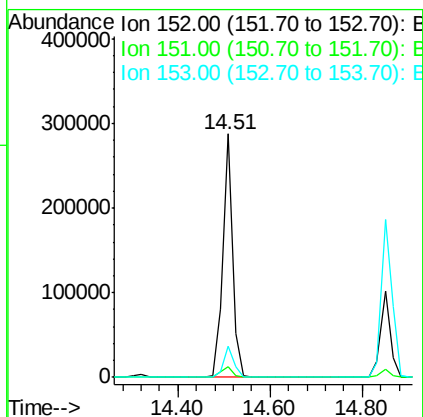
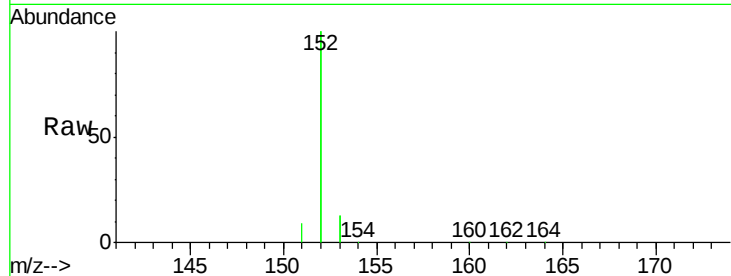
Tot Ion:152 Resp: 437330

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

153 13.0 10.4 15.6



#16

Acenaphthene

Concen: 9.06 ng

RT: 14.85 min Scan# 982

Delta R.T. -0.02 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

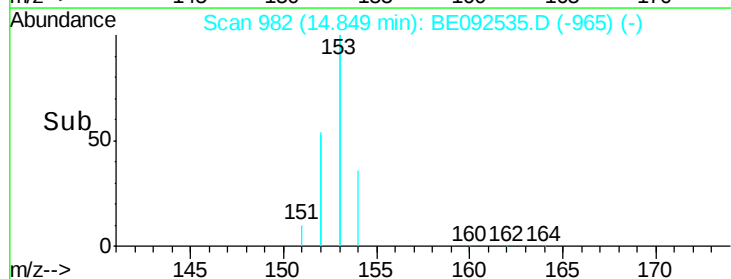
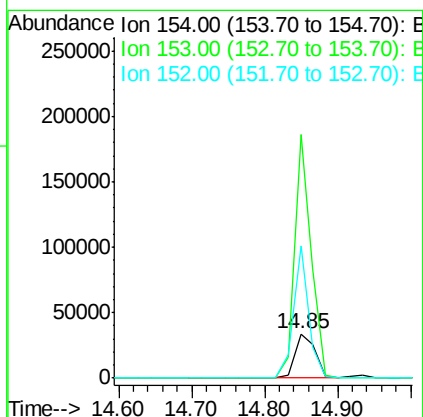
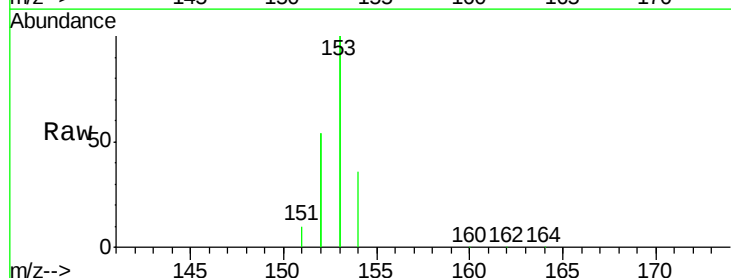
Tgt Ion:154 Resp: 63546

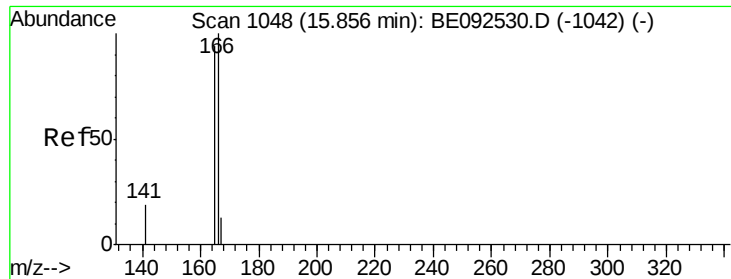
Ion Ratio Lower Upper

154 100

153 464.7 350.8 526.2

152 231.7 171.1 256.7

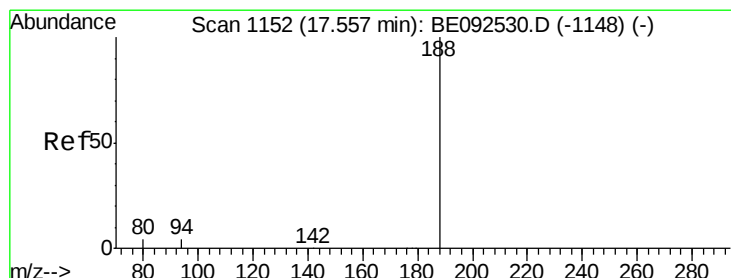
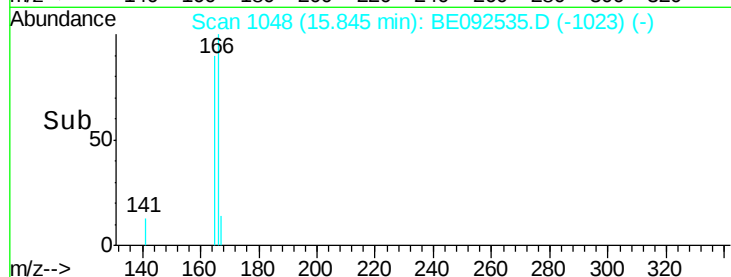
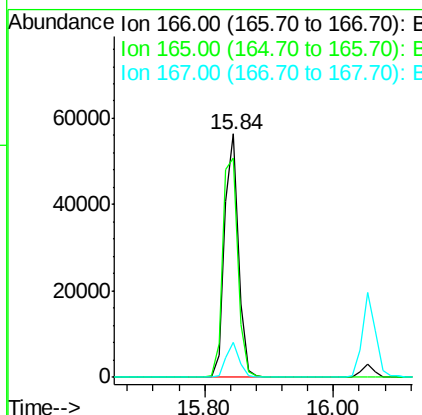
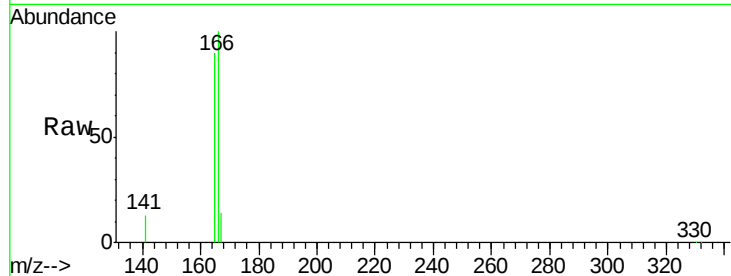




#17
Fluorene
 Concen: 9.62 ng
 RT: 15.84 min Scan# 1048
 Delta R.T. -0.01 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

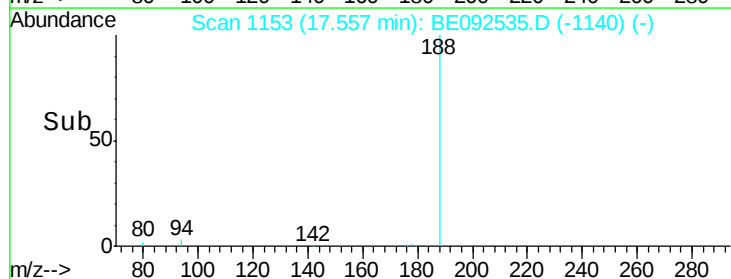
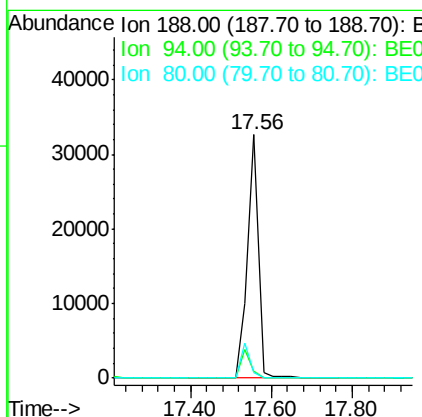
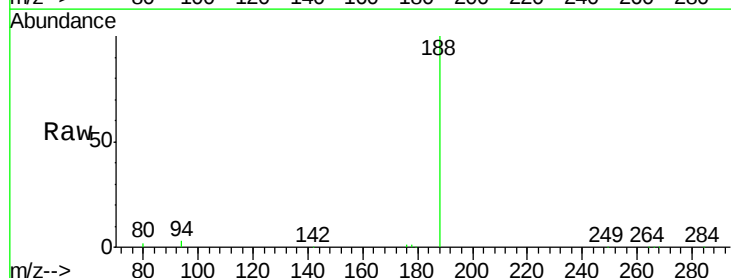
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion:166 Resp: 84778
 Ion Ratio Lower Upper
 166 100
 165 98.9 78.2 117.4
 167 13.5 11.0 16.4



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

Tgt Ion:188 Resp: 60544
 Ion Ratio Lower Upper
 188 100
 94 3.0 3.2 4.8#
 80 2.4 2.6 3.8#





#19

Hexachlorobenzene

Concen: 11.03 ng

RT: 16.87 min Scan# 1123

Delta R.T. 0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

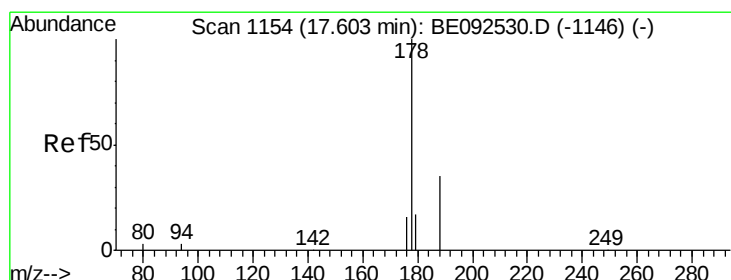
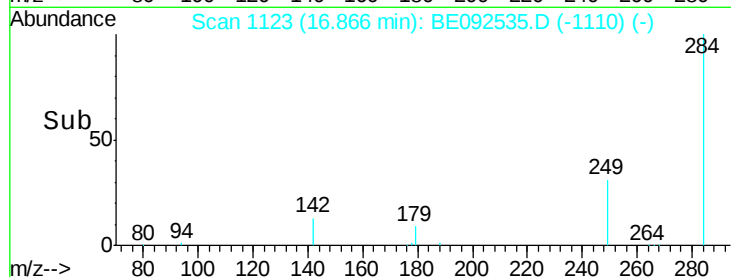
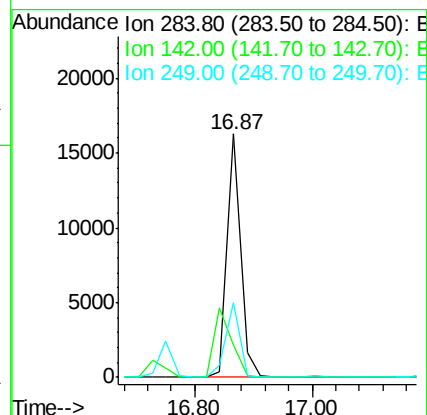
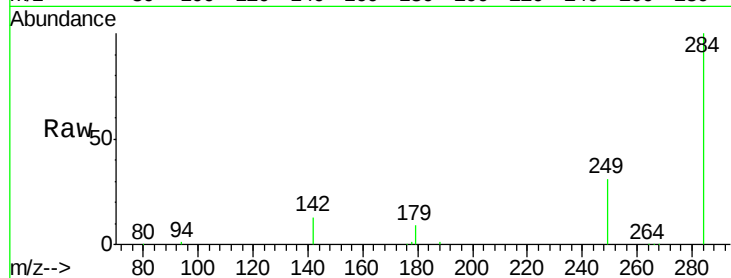
Tot Ion:284 Resp: 25211

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

249 32.8 27.9 41.9



#21

Phenanthrene

Concen: 10.81 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.02 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

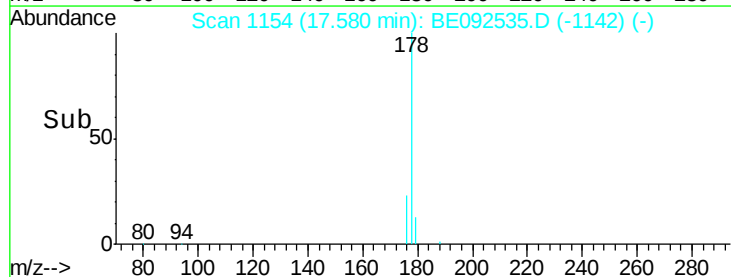
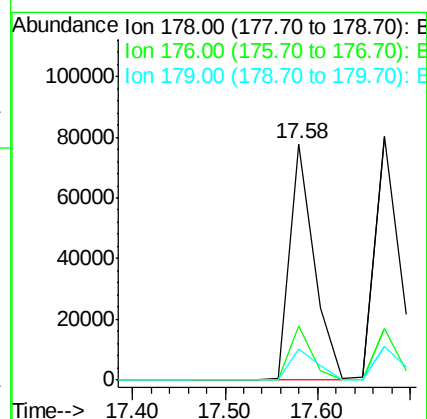
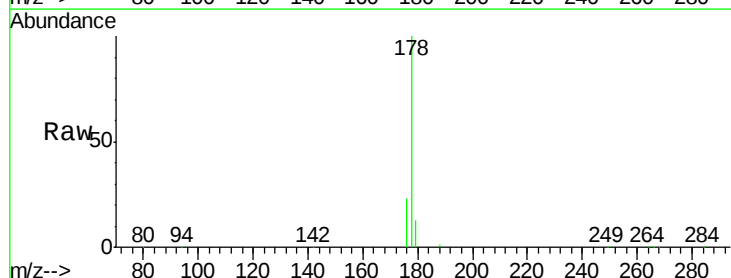
Tgt Ion:178 Resp: 141447

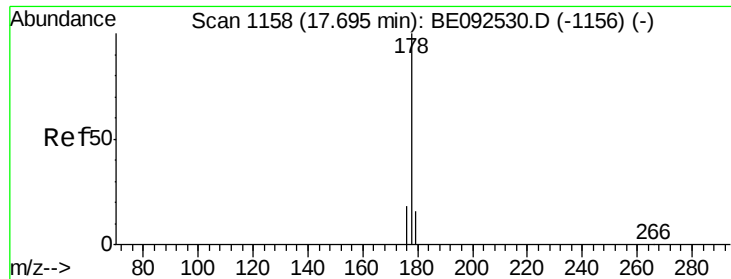
Ion Ratio Lower Upper

178 100

176 20.8 15.8 23.8

179 14.8 16.0 24.0#





#22

Anthracene

Concen: 11.41 ng

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

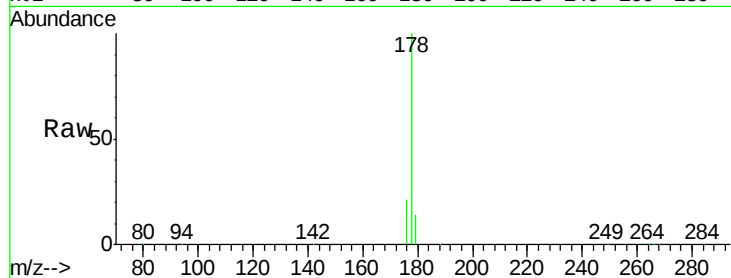
Tot Ion:178 Resp: 144912

Ion Ratio Lower Upper

178 100

176 19.5 15.0 22.4

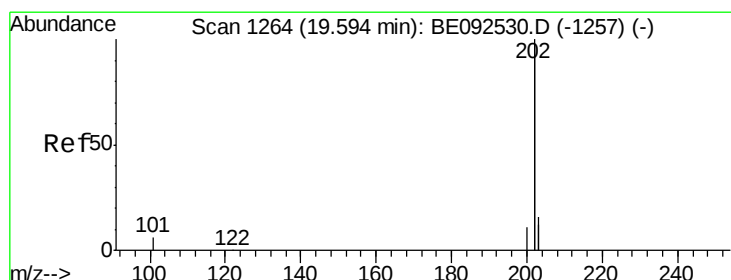
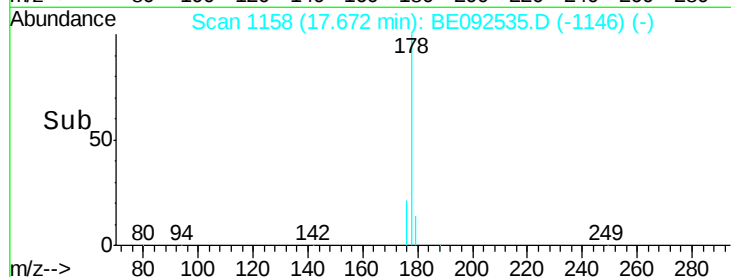
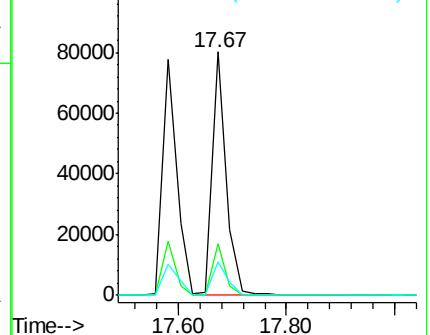
179 15.1 12.2 18.2



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



#23

Fluoranthene

Concen: 10.23 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

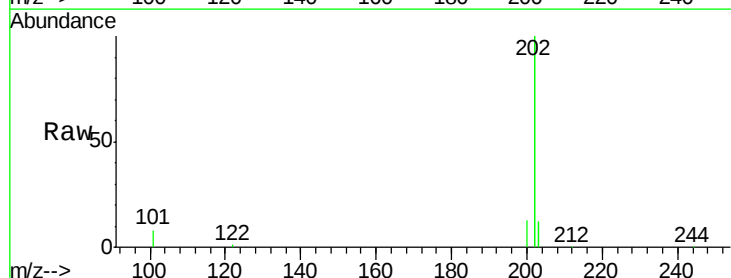
Tgt Ion:202 Resp: 672145

Ion Ratio Lower Upper

202 100

101 3.0 2.2 3.4

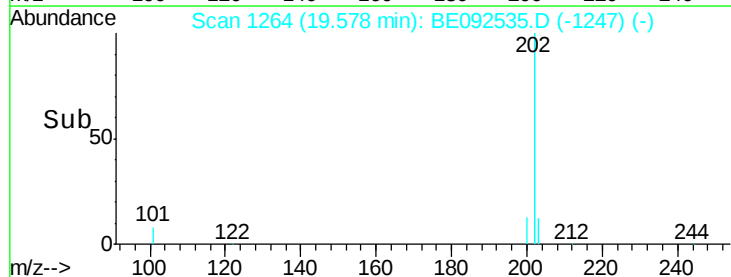
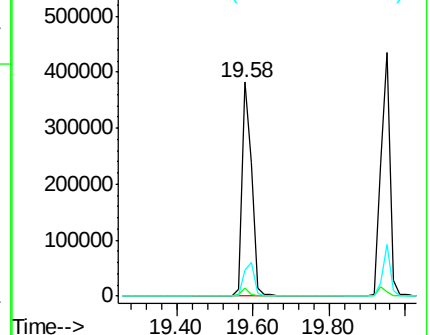
203 17.2 13.7 20.5

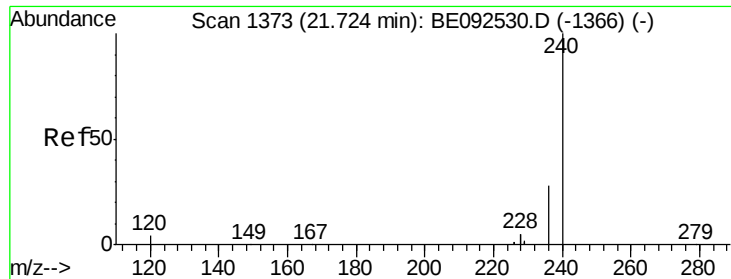


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

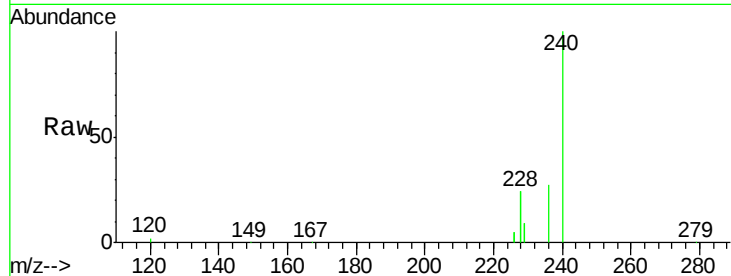
Tot Ion:240 Resp: 85473

Ion Ratio Lower Upper

240 100

120 1.6 2.6 4.0#

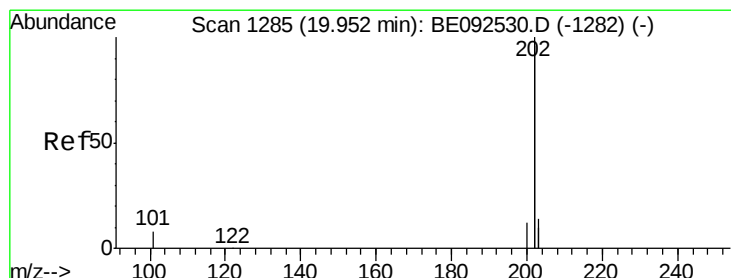
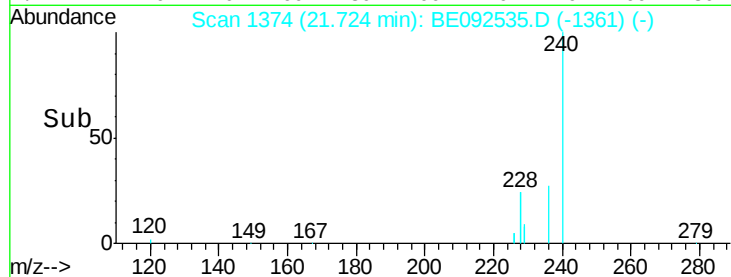
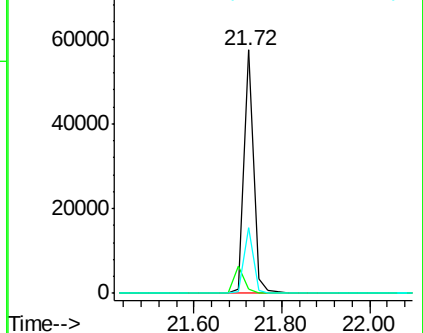
236 27.0 24.6 37.0



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



#25

Pyrene

Concen: 10.35 ng

RT: 19.95 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BE092535.D

Acq: 16 Nov 2016 14:43

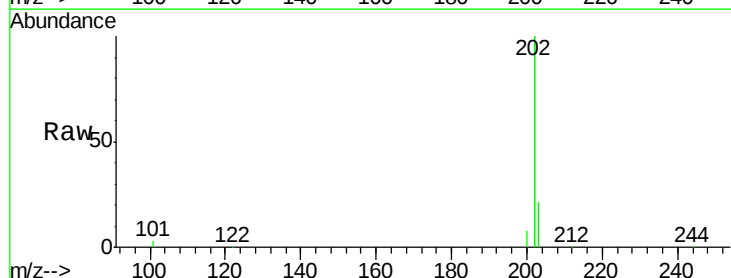
Tgt Ion:202 Resp: 724591

Ion Ratio Lower Upper

202 100

200 5.3 4.2 6.4

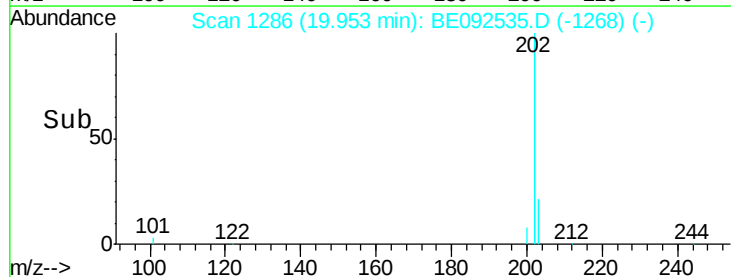
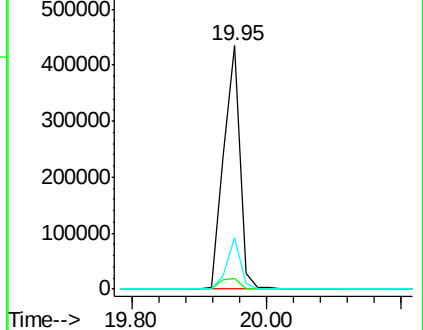
203 17.8 13.9 20.9

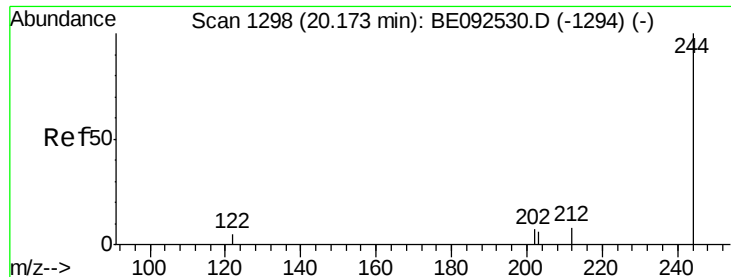


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

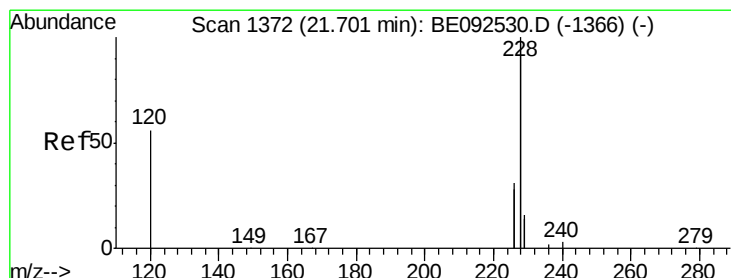
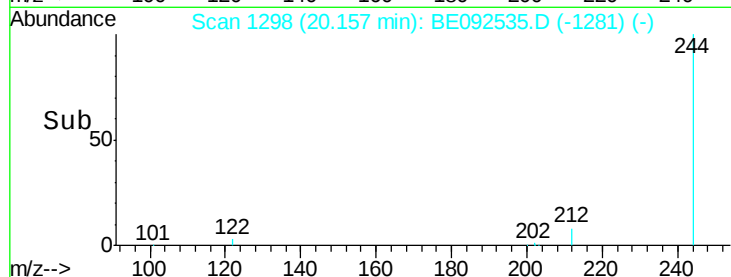
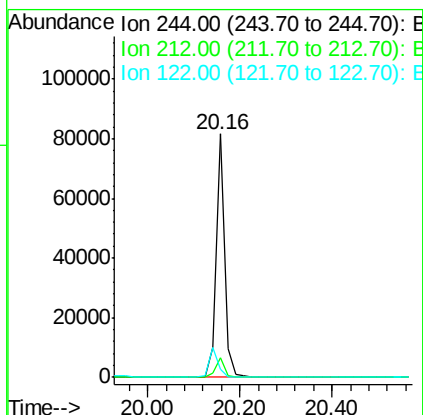
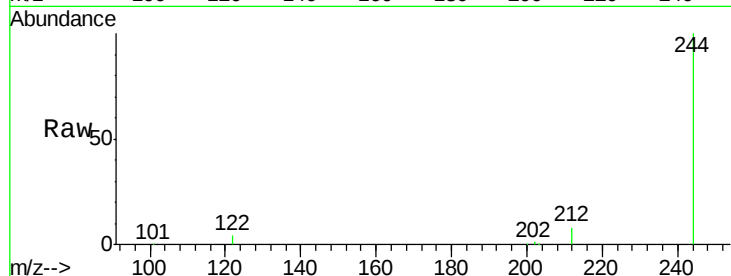




#26
 Terphenyl-d14
 Concen: 10.15 ng
 RT: 20.16 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

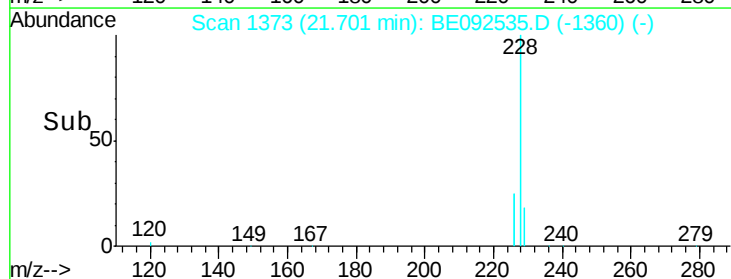
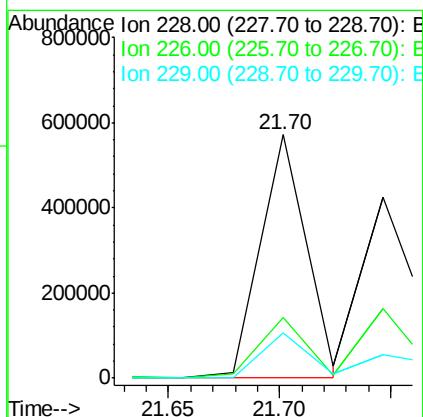
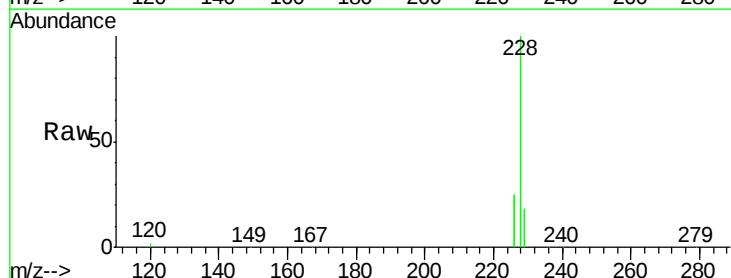
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

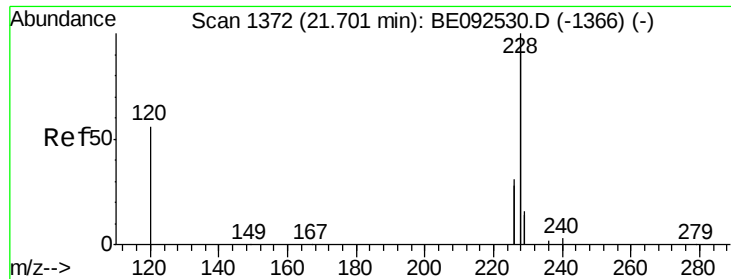
Tot Ion:244 Resp: 105378
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.7 10.1
 122 3.5 3.6 5.4#



#27
 Benzo(a)anthracene
 Concen: 9.61 ng m
 RT: 21.70 min Scan# 1373
 Delta R.T. 0.00 min
 Lab File: BE092535.D
 Acq: 16 Nov 2016 14:43

Tgt Ion:228 Resp: 832730
 Ion Ratio Lower Upper
 228 100
 226 24.9 23.6 35.4
 229 18.4 13.3 19.9

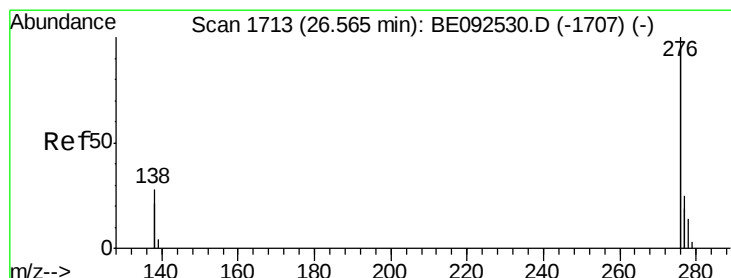
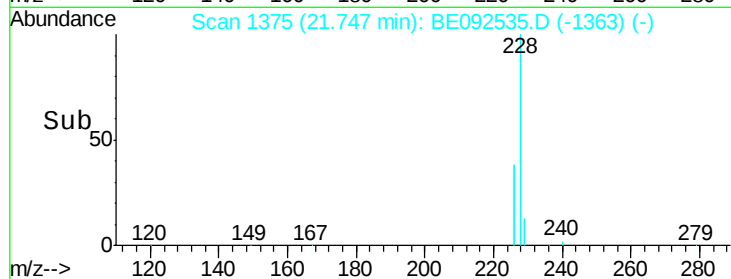
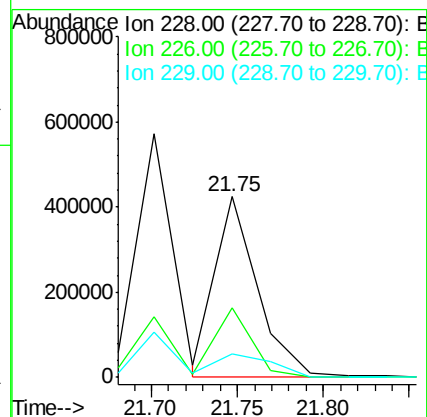
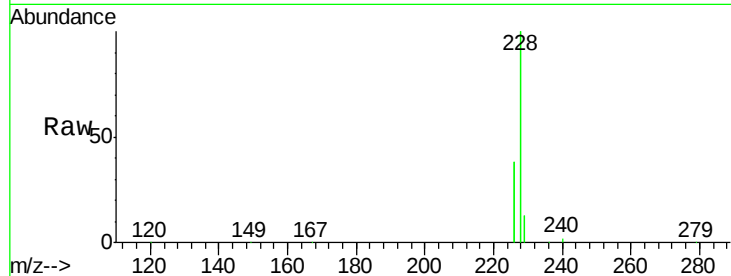




#28
Chrysene
Concen: 7.93 ng/ml
RT: 21.75 min Scan# 1375
Delta R.T. -0.02 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

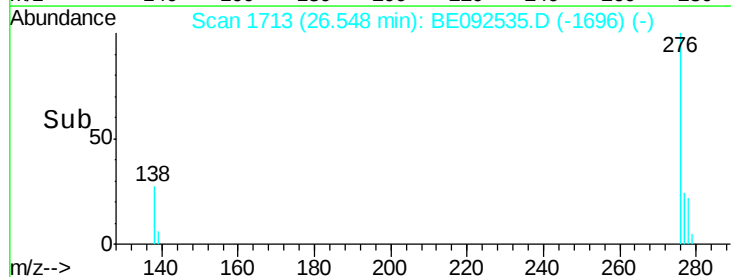
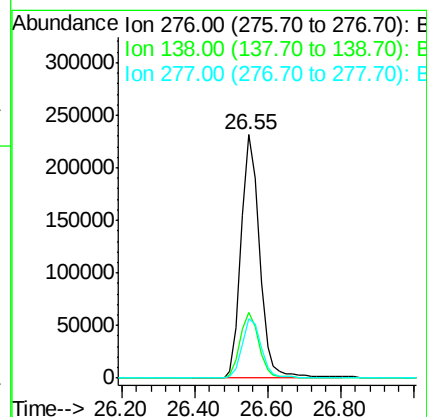
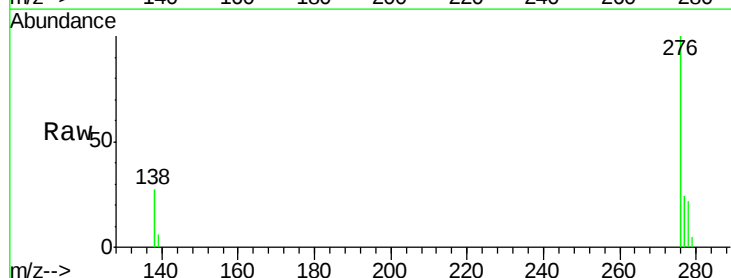
Instrument :
BNA_E
ClientSampleId :
SSTDIC010

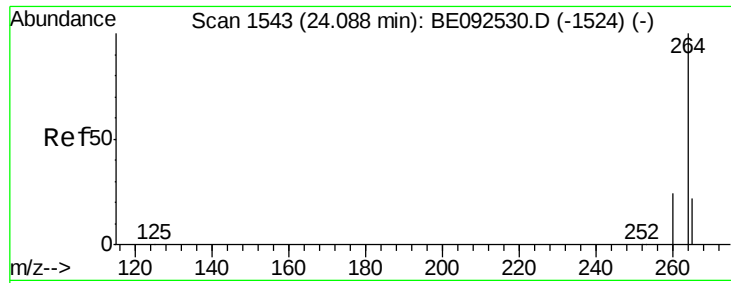
Tot Ion: 228 Resp: 735772
Ion Ratio Lower Upper
228 100
226 38.3 36.3 54.5
229 12.8 10.6 16.0



#30
Indeno(1,2,3-cd)pyrene
Concen: 8.53 ng
RT: 26.55 min Scan# 1713
Delta R.T. -0.02 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Tgt Ion: 276 Resp: 806556
Ion Ratio Lower Upper
276 100
138 27.6 20.3 30.5
277 25.0 19.7 29.5



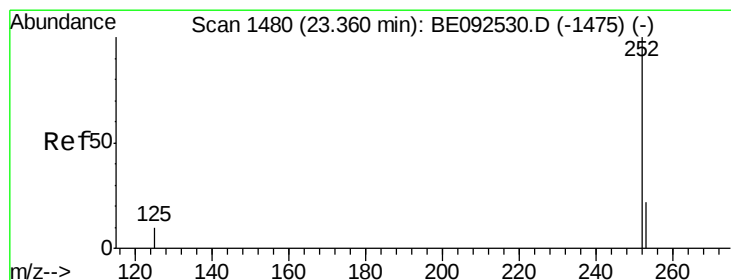
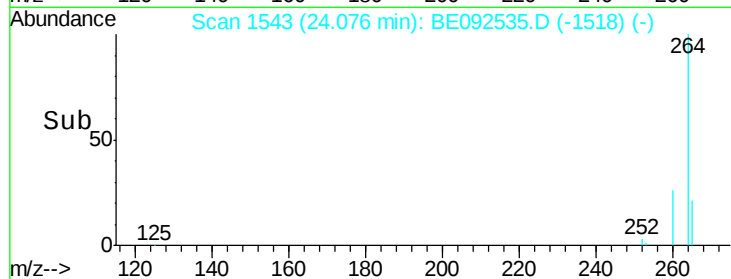
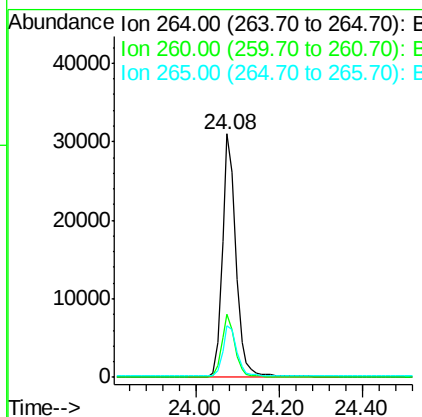
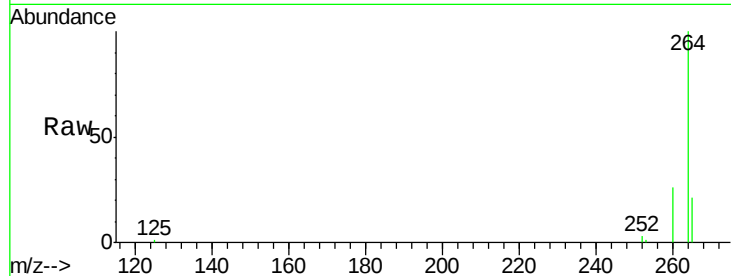


#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.08 min Scan# 1543
Delta R.T. -0.01 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion:264 Resp: 70675

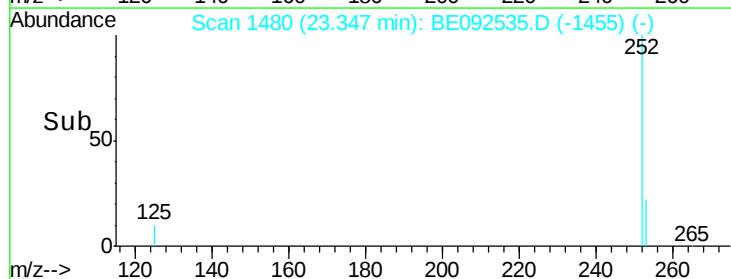
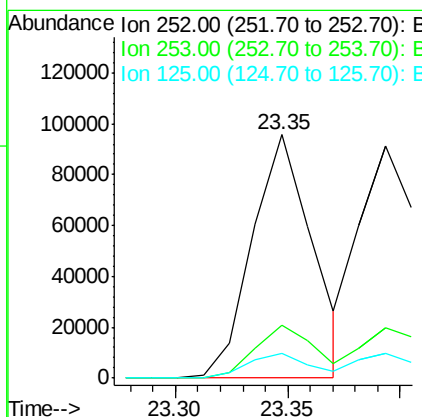
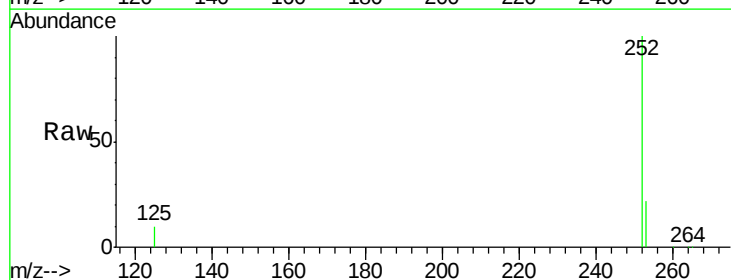
Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.1	30.1
265	21.3	17.9	26.9

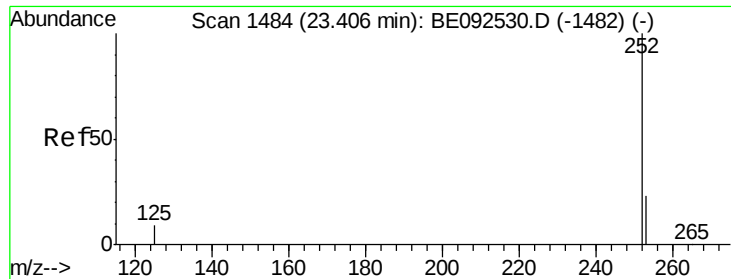


#32
Benzo(b)fluoranthene
Concen: 6.68 ng m
RT: 23.35 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Tgt Ion:252 Resp: 178065

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.7	28.1
125	10.4	10.5	15.7#

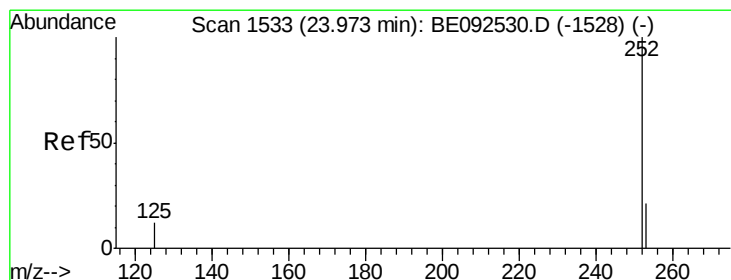
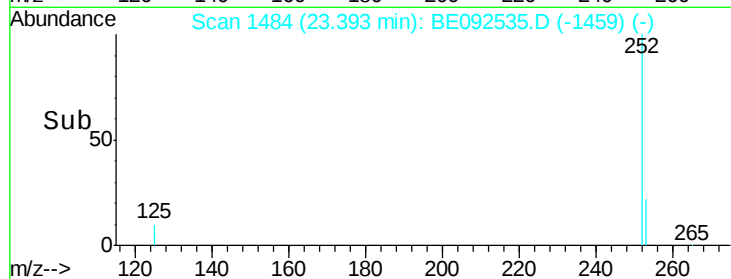
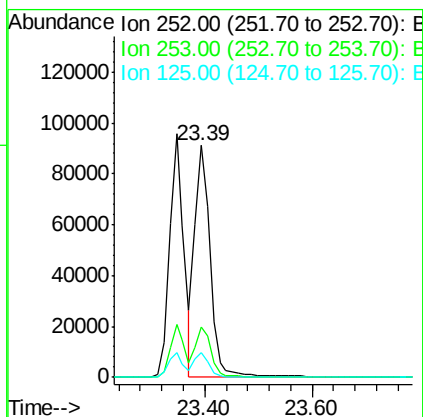
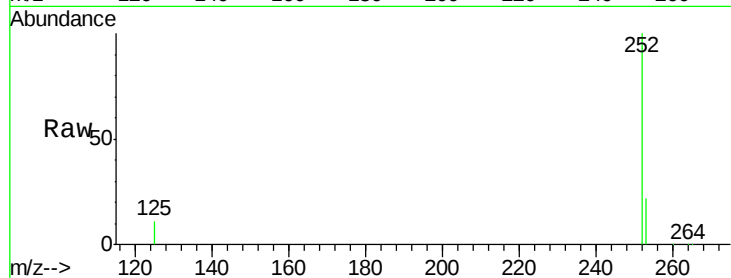




#33
Benzo(k)fluoranthene
Concen: 6.37 ng
RT: 23.39 min Scan# 1484
Delta R.T. -0.01 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

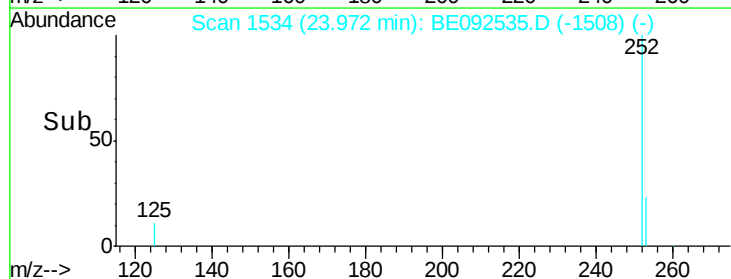
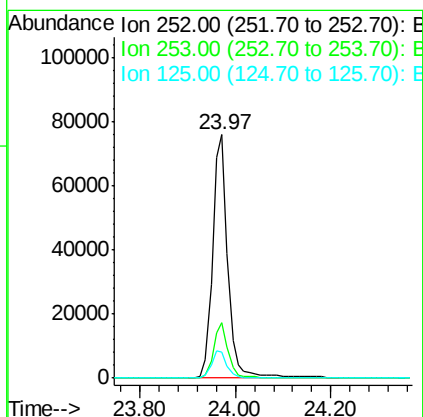
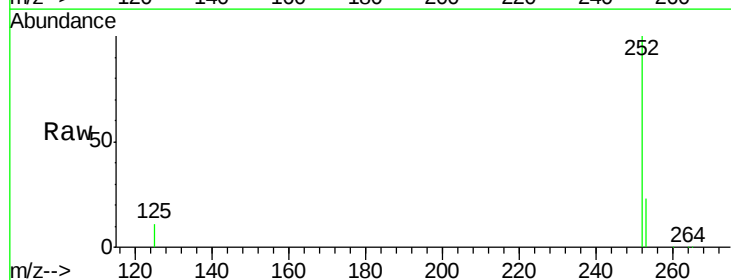
Instrument :
BNA_E
ClientSampleId :
SSTDIC010

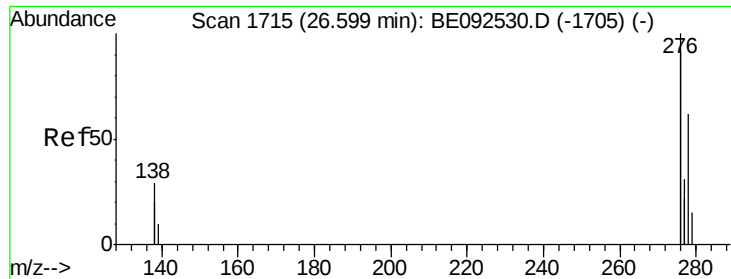
Tot Ion:252 Resp: 177640
Ion Ratio Lower Upper
252 100
253 21.7 20.3 30.5
125 10.5 9.6 14.4



#34
Benzo(a)pyrene
Concen: 9.30 ng
RT: 23.97 min Scan# 1534
Delta R.T. -0.00 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Tgt Ion:252 Resp: 169813
Ion Ratio Lower Upper
252 100
253 22.7 19.0 28.6
125 10.8 11.8 17.8#



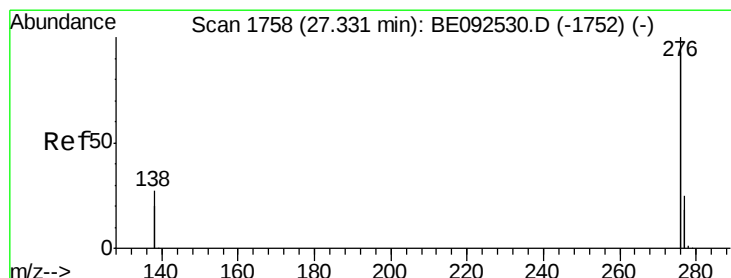
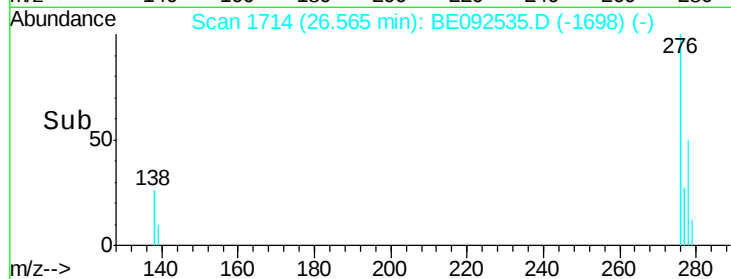
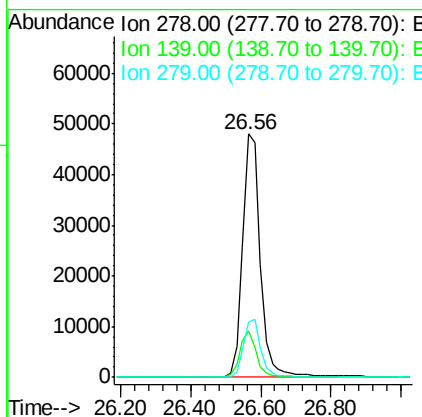
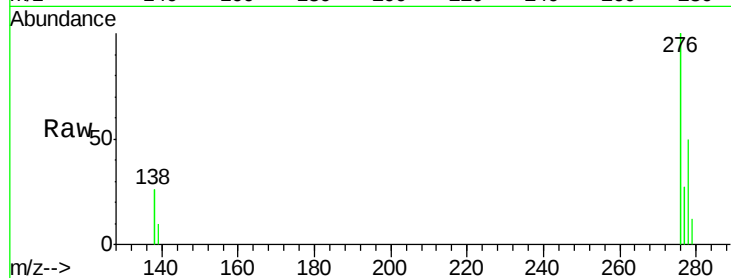


#35
Dibenzo(a,h)anthracene
Concen: 9.81 ng
RT: 26.56 min Scan# 1714
Delta R.T. -0.03 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion:278 Resp: 168659

Ion	Ratio	Lower	Upper
278	100		
139	19.3	13.8	20.8
279	23.0	21.4	32.2



#36
Benzo(g,h,i)perylene
Concen: 9.78 ng
RT: 27.31 min Scan# 1758
Delta R.T. -0.02 min
Lab File: BE092535.D
Acq: 16 Nov 2016 14:43

Tgt Ion:276 Resp: 692195

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.8	29.8
138	23.2	19.8	29.6

