

Data Path : Z:\HPCHEM1\BNA E\Data\BE093016\
 Data File : BE092432.D
 Acq On : 30 Sep 2016 11:30
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 30 13:40:15 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 18:25:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.165	152	8856	5.00	ng	-0.02
7) Naphthalene-d8	10.951	136	42945	5.00	ng	0.00
12) Acenaphthene-d10	14.815	164	33178	5.00	ng	0.00
18) Phenanthrene-d10	17.580	188	65322	5.00	ng	0.02
24) Chrysene-d12	21.747	240	83243	5.00	ng	0.00
31) Perylene-d12	24.122	264	69843	5.00	ng	0.04

System Monitoring Compounds						
4) 2-Fluorophenol	5.687	112	549	0.37	ng	0.00
5) Phenol-d6	7.359	99	708	0.32	ng	0.00
8) Nitrobenzene-d5	9.363	82	839	0.41	ng	0.00
13) 2,4,6-Tribromophenol	16.319	330	267	0.38	ng	0.00
14) 2-Fluorobiphenyl	13.444	172	3074	0.39	ng	0.00
26) Terphenyl-d14	20.191	244	3870	0.37	ng	0.02

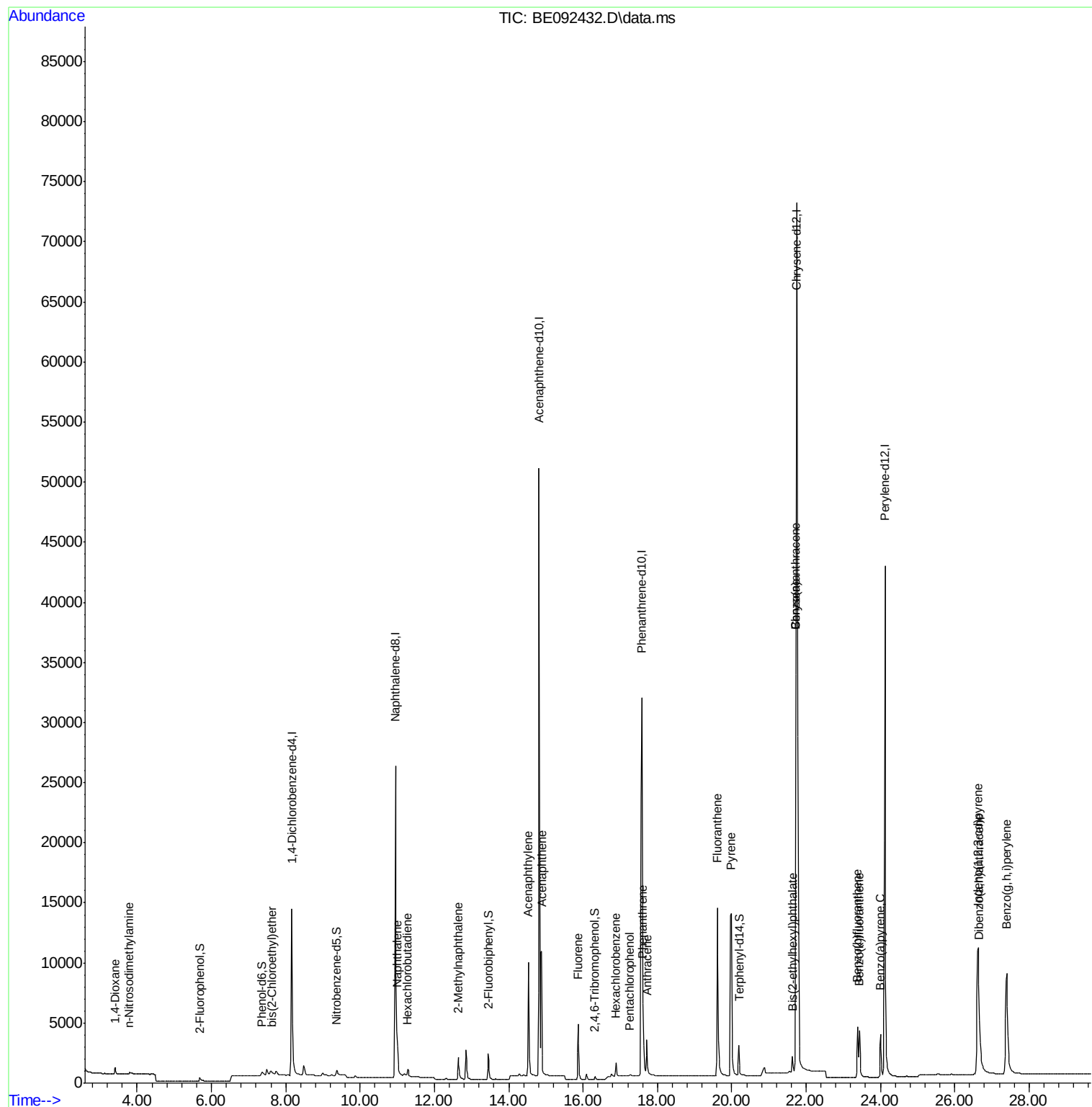
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.410	88	443	0.36	ng	98
3) n-Nitrosodimethylamine	3.792	42	352	0.43	ng	# 96
6) bis(2-Chloroethyl)ether	7.612	93	645	0.36	ng	# 27
9) Naphthalene	10.990	128	3694	0.40	ng	96
10) Hexachlorobutadiene	11.278	225	578	0.40	ng	99
11) 2-Methylnaphthalene	12.647	142	2373	0.39	ng	94
15) Acenaphthylene	14.525	152	17607	0.37	ng	100
16) Acenaphthene	14.883	154	2946	0.39	ng	99
17) Fluorene	15.868	166	3558	0.37	ng	100
19) Hexachlorobenzene	16.889	284	1200	0.43	ng	# 64
20) Pentachlorophenol	17.258	266	182	0.35	ng	92
21) Phenanthrene	17.603	178	6307	0.42	ng	# 95
22) Anthracene	17.719	178	5396	0.37	ng	99
23) Fluoranthene	19.612	202	25710	0.36	ng	99
25) Pyrene	19.970	202	27174	0.38	ng	100
27) Benzo(a)anthracene	21.724	228	59921	0.74	ng	95
28) Chrysene	21.724	228	60490	0.81	ng	# 74
29) Bis(2-ethylhexyl)phtha...	21.634	149	1981	0.28	ng	# 73
30) Indeno(1,2,3-cd)pyrene	26.616	276	26946	0.34	ng	98
32) Benzo(b)fluoranthene	23.382	252	6091	0.36	ng	99
33) Benzo(k)fluoranthene	23.428	252	7141	0.40	ng	96
34) Benzo(a)pyrene	24.006	252	6171	0.37	ng	99
35) Dibenzo(a,h)anthracene	26.651	278	5453	0.36	ng	98
36) Benzo(g,h,i)perylene	27.400	276	24342	0.37	ng	98

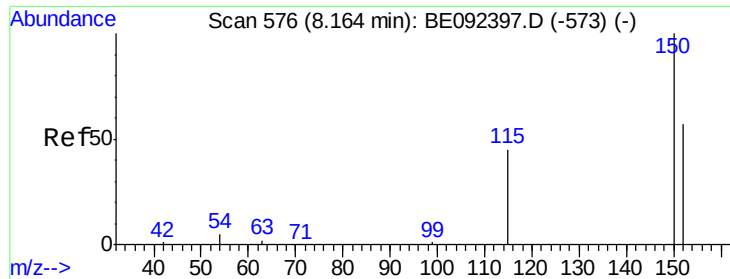
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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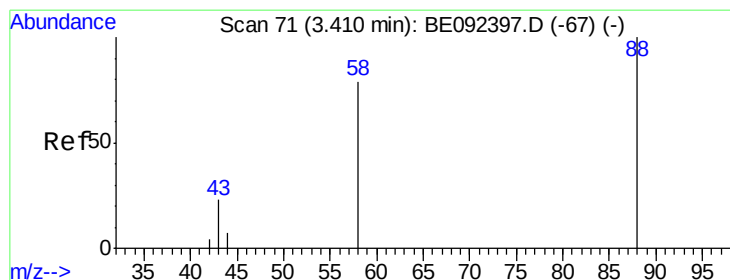
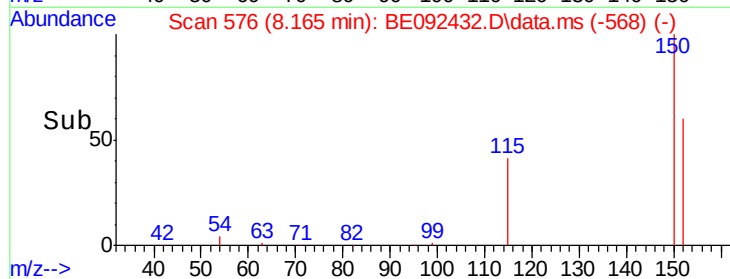
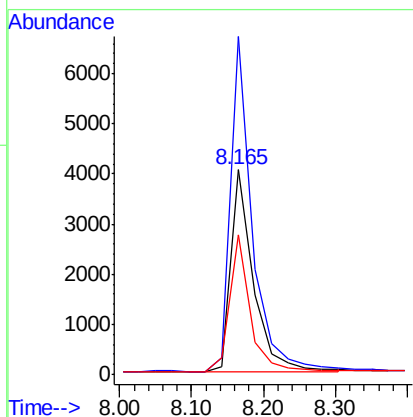
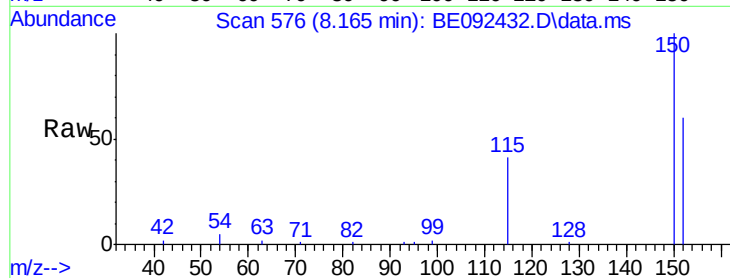




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.165 min Scan# 57
 Delta R.T. -0.022 min
 Lab File: BE092432.D
 Acq: 30 Sep 2016 11:30

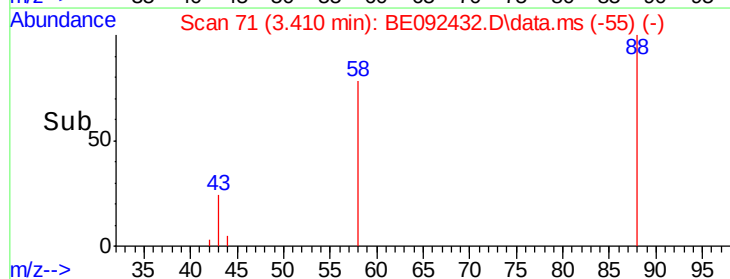
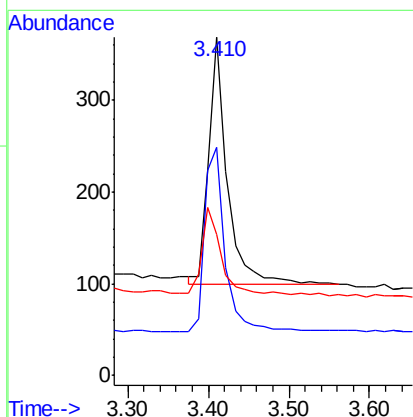
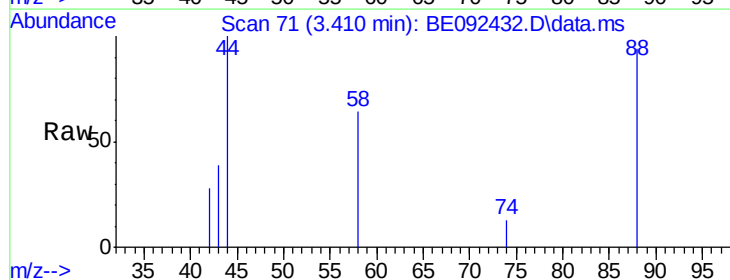
Instrument :
 BNA_E
 ClientSampleId :

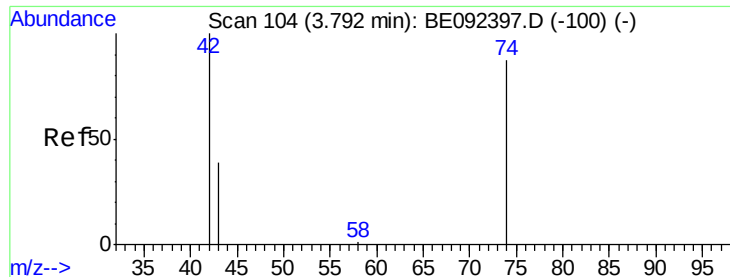
Tot Ion:152 Resp: 8856
 Ion Ratio Lower Upper
 152 100
 150 165.4 106.0 159.0#
 115 68.0 31.2 46.8#



#2
 1,4-Dioxane
 Concen: 0.36 ng
 RT: 3.410 min Scan# 71
 Delta R.T. -0.011 min
 Lab File: BE092432.D
 Acq: 30 Sep 2016 11:30

Tgt Ion: 88 Resp: 443
 Ion Ratio Lower Upper
 88 100
 58 81.0 63.6 95.4
 43 36.1 28.0 42.0

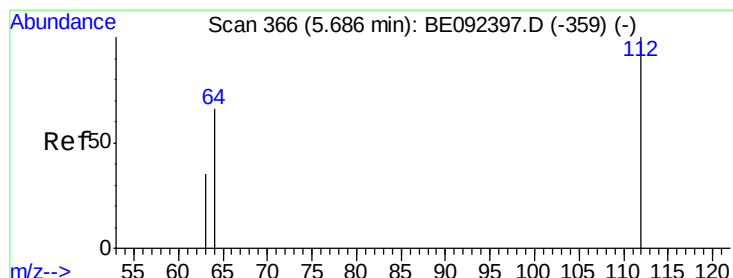
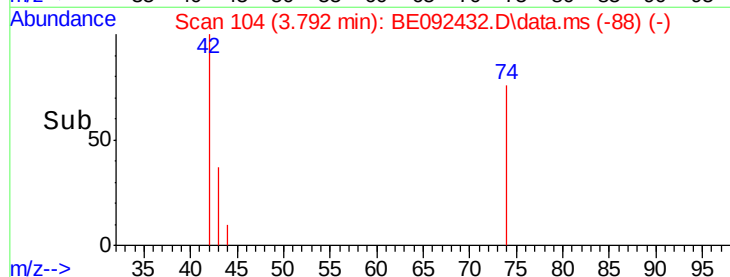
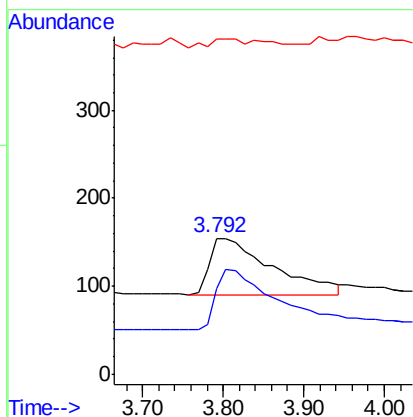
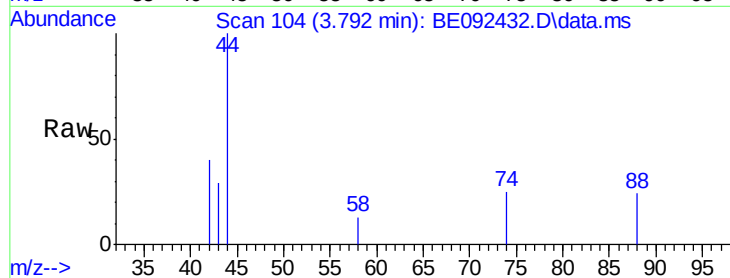




#3
n-Nitrosodimethylamine
Concen: 0.43 ng
RT: 3.792 min Scan# 104
Delta R.T. -0.010 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

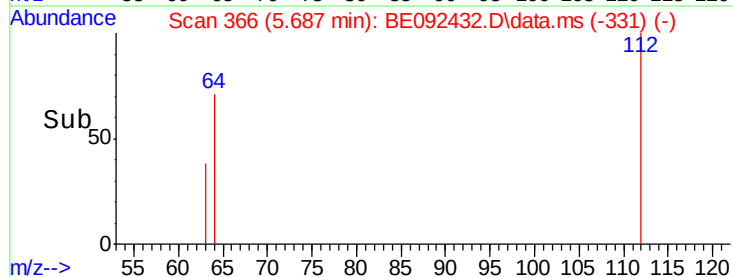
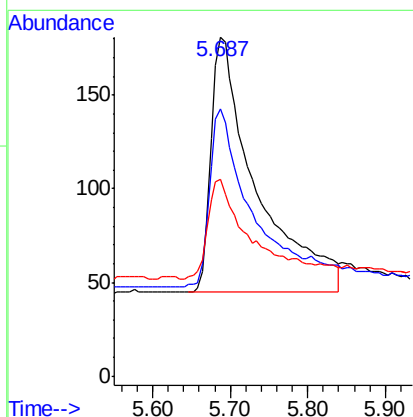
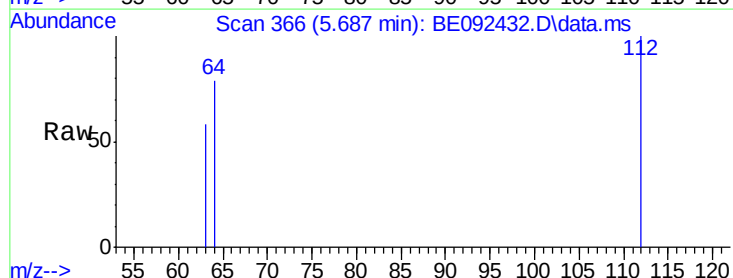
Instrument :
BNA_E
ClientSampleId :

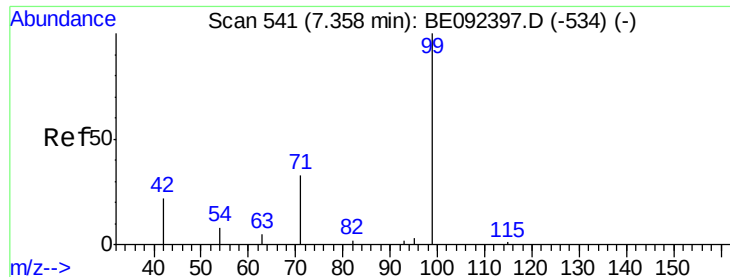
Tot Ion: 42 Resp: 352
Ion Ratio Lower Upper
42 100
74 103.7 86.0 129.0
44 8.2 5.1 7.7#



#4
2-Fluorophenol
Concen: 0.37 ng
RT: 5.687 min Scan# 366
Delta R.T. 0.001 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

Tgt Ion: 112 Resp: 549
Ion Ratio Lower Upper
112 100
64 68.3 53.5 80.3
63 38.6 27.9 41.9





#5

Phenol-d6

Concen: 0.32 ng

RT: 7.359 min Scan# 541

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

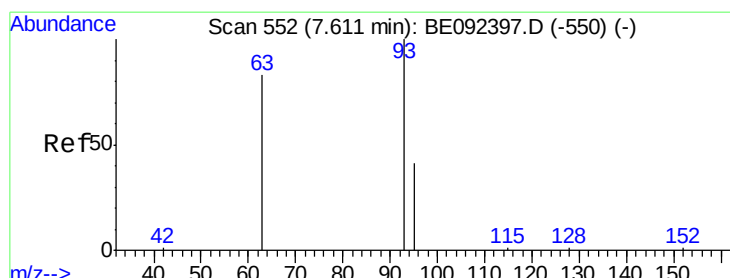
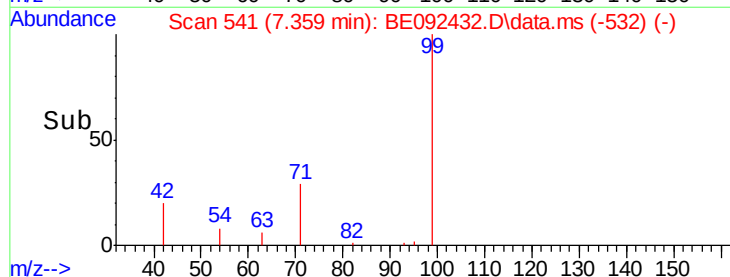
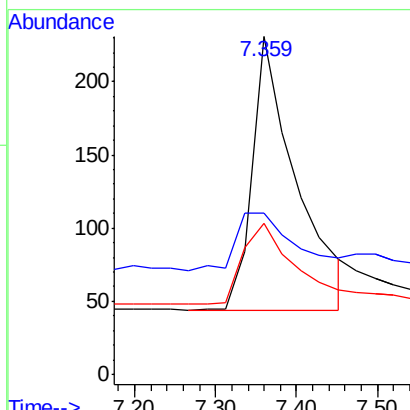
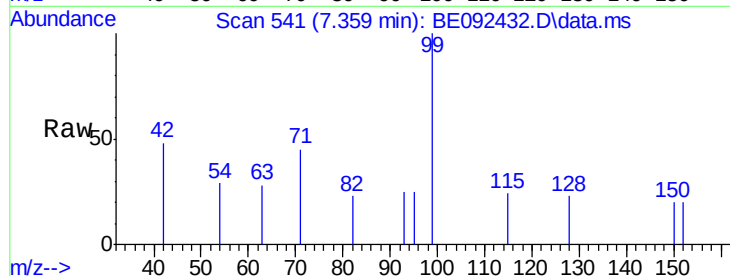
Tot Ion: 99 Resp: 708

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

71 34.6 30.6 45.8



#6

bis(2-Chloroethyl)ether

Concen: 0.36 ng

RT: 7.612 min Scan# 552

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

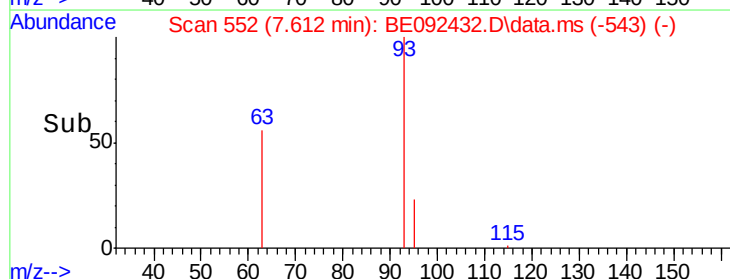
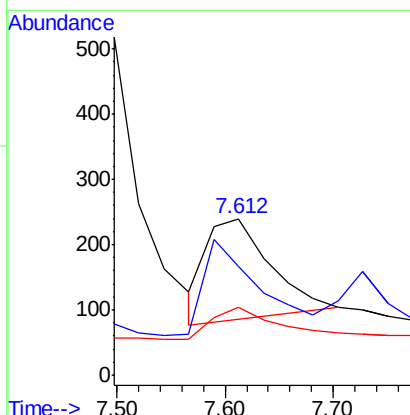
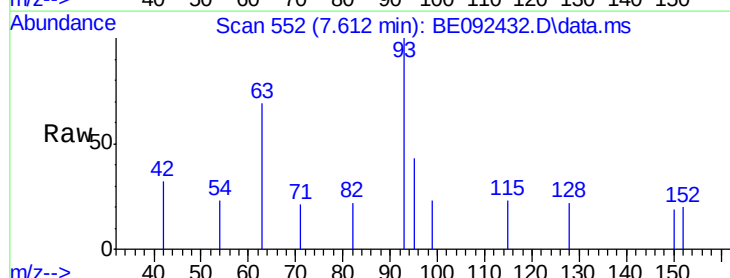
Tgt Ion: 93 Resp: 645

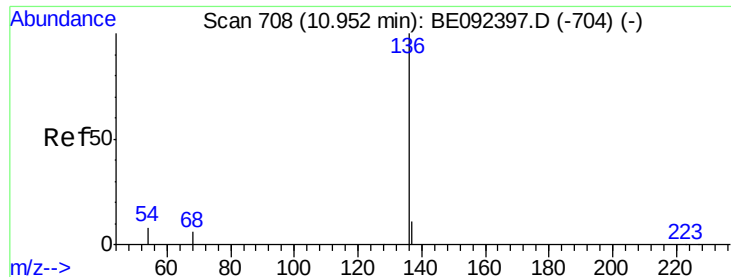
Ion Ratio Lower Upper

93 100

63 0.0 71.6 107.4#

95 33.2 24.0 36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.951 min Scan# 70

Delta R.T. -0.001 min

Lab File: BE092432.D

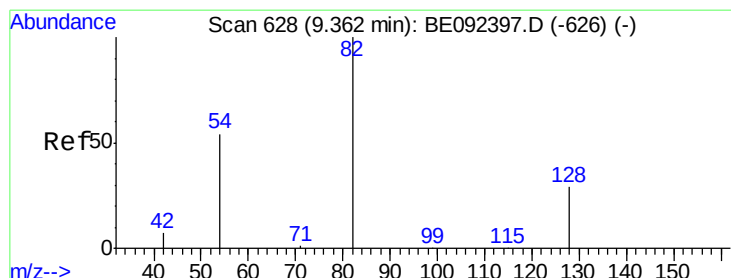
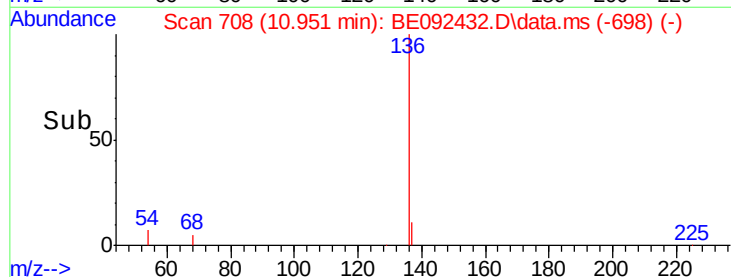
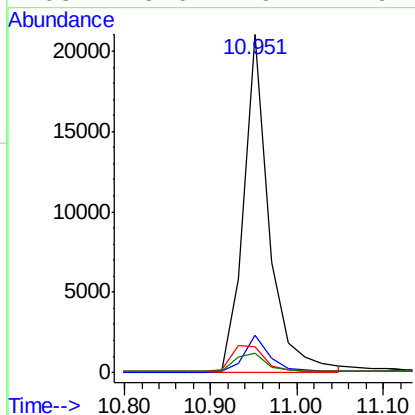
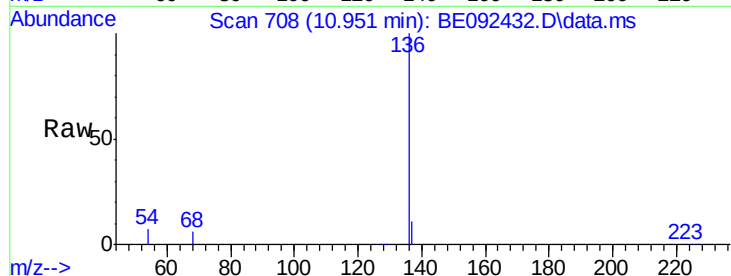
Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	136	Resp:	42945
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.2	12.4
54	7.5	9.6	14.4#
68	5.6	6.7	10.1#



#8

Nitrobenzene-d5

Concen: 0.41 ng

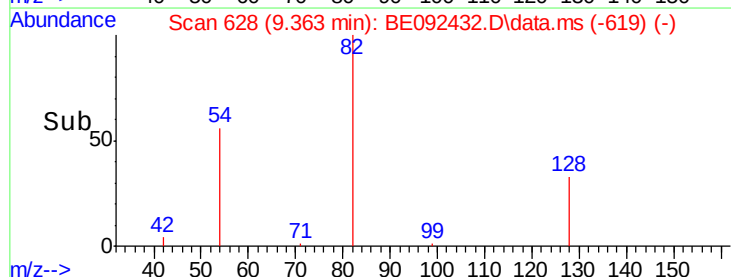
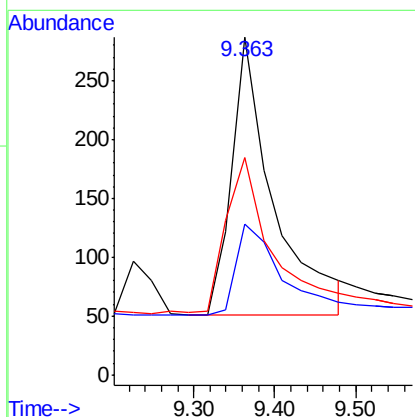
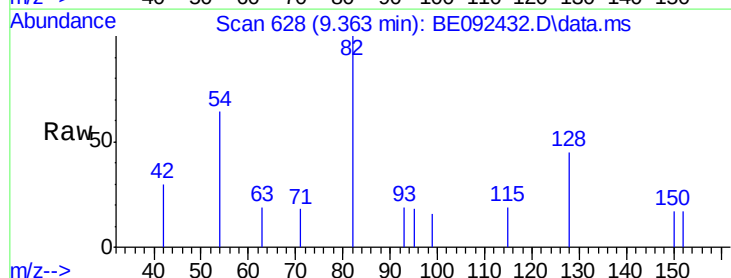
RT: 9.363 min Scan# 628

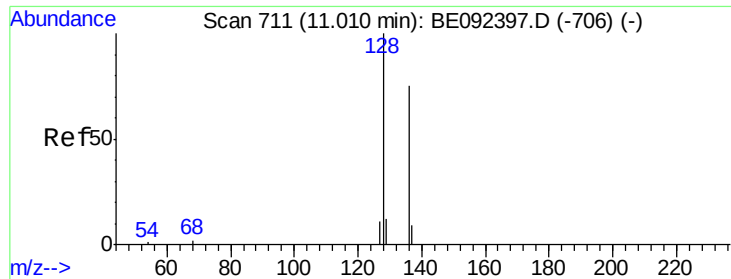
Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Tgt Ion:	82	Resp:	839
Ion Ratio	Lower	Upper	
82	100		
128	44.6	39.0	58.4
54	64.5	44.8	67.2





#9

Naphthalene

Concen: 0.40 ng

RT: 10.990 min Scan# 711

Delta R.T. -0.020 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

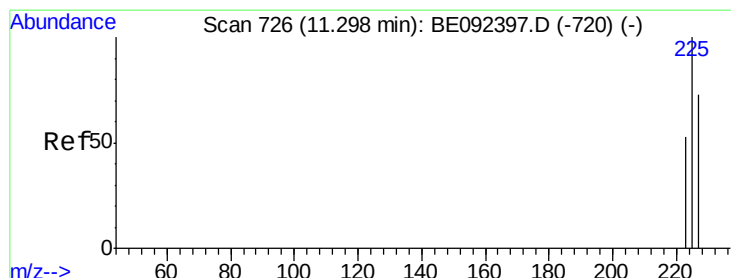
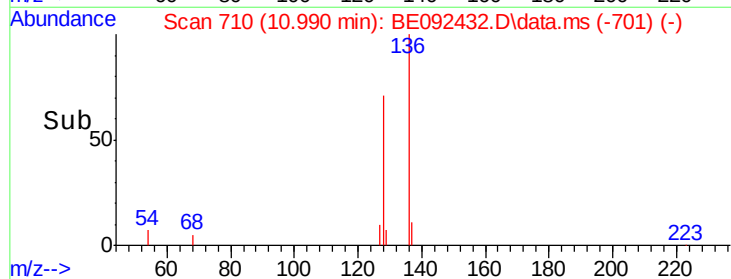
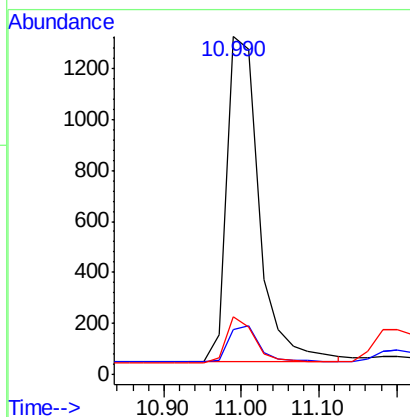
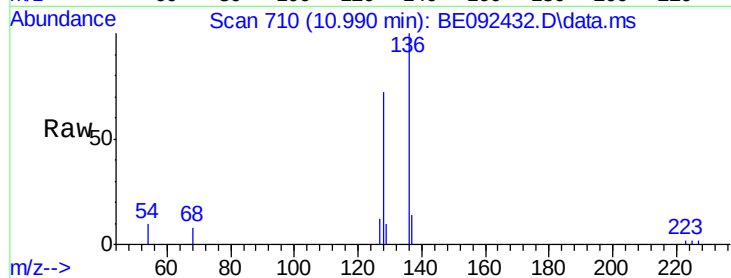
Tot Ion:128 Resp: 3694

Ion Ratio Lower Upper

128 100

129 13.4 11.2 16.8

127 17.1 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.40 ng

RT: 11.278 min Scan# 725

Delta R.T. -0.020 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

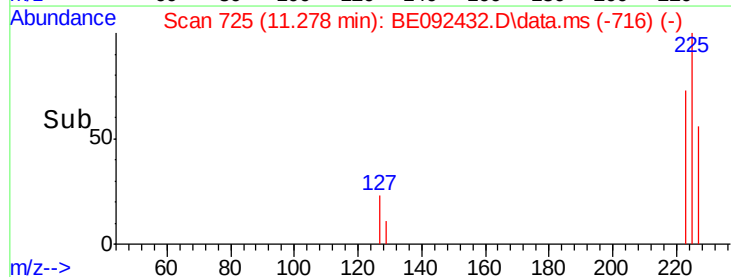
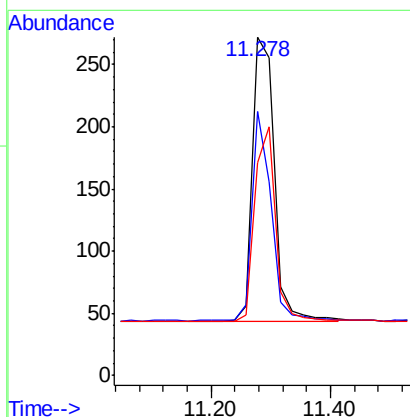
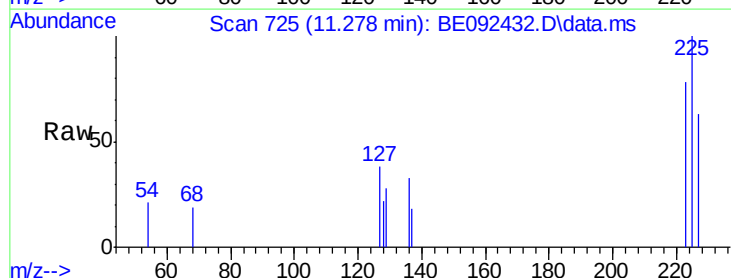
Tgt Ion:225 Resp: 578

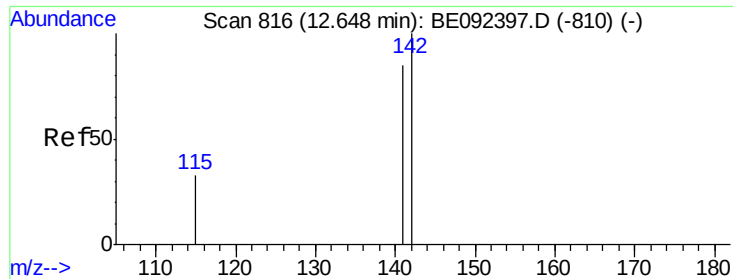
Ion Ratio Lower Upper

225 100

223 65.1 50.6 76.0

227 64.4 51.4 77.0

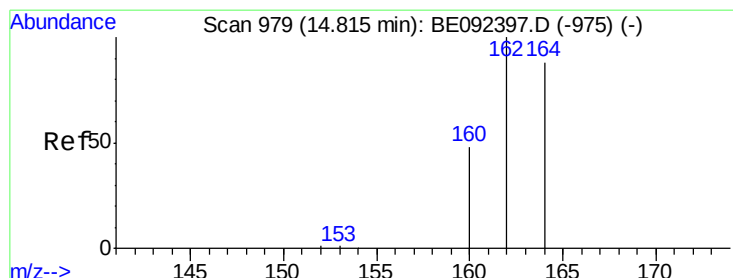
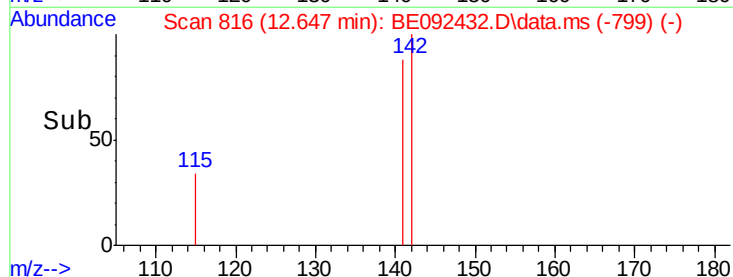
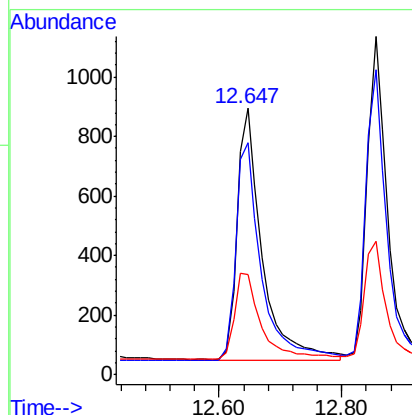
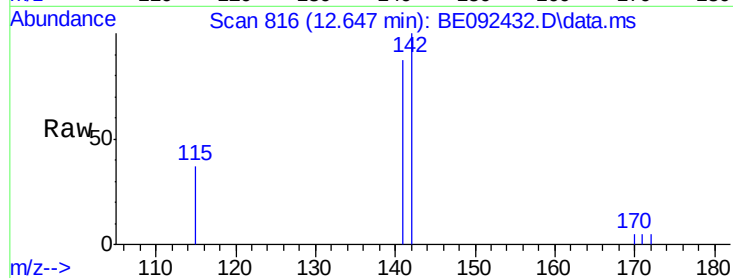




#11
2-Methylnaphthalene
Concen: 0.39 ng
RT: 12.647 min Scan# 81
Delta R.T. -0.001 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

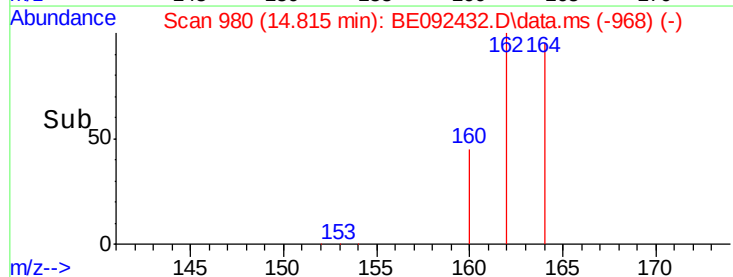
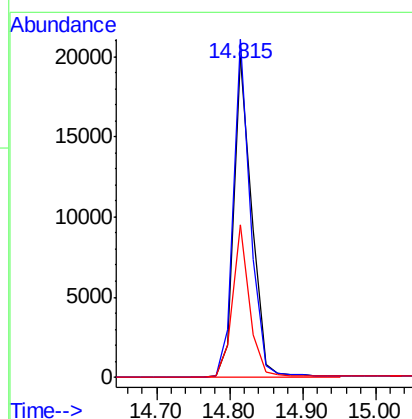
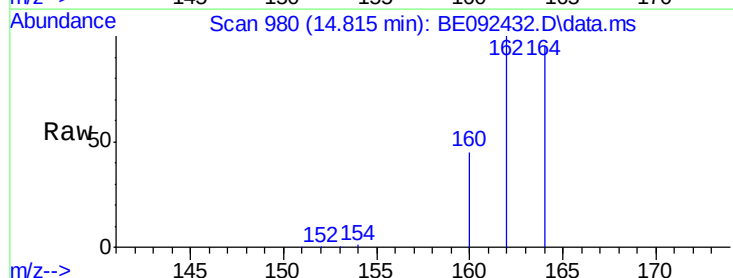
Instrument :
BNA_E
ClientSampleId :

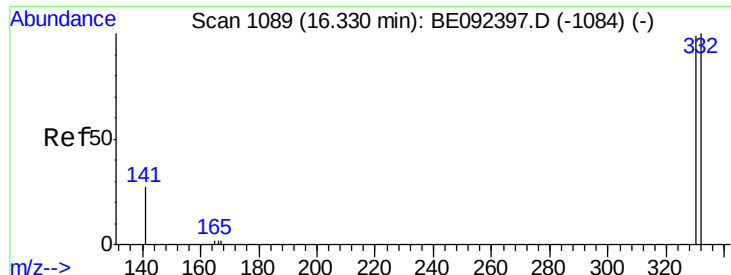
Tot Ion:142 Resp: 2373
Ion Ratio Lower Upper
142 100
141 87.4 73.7 110.5
115 37.5 34.0 51.0



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.815 min Scan# 980
Delta R.T. -0.000 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

Tgt Ion:164 Resp: 33178
Ion Ratio Lower Upper
164 100
162 105.6 71.4 107.0
160 47.8 27.4 41.2#

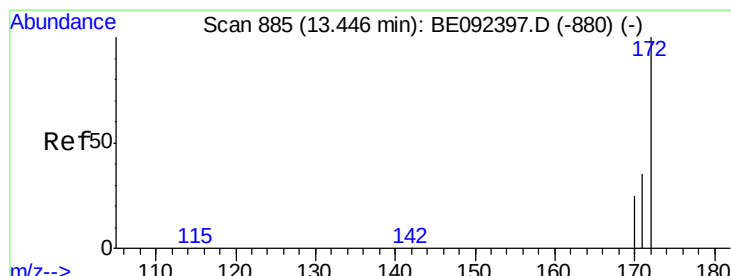
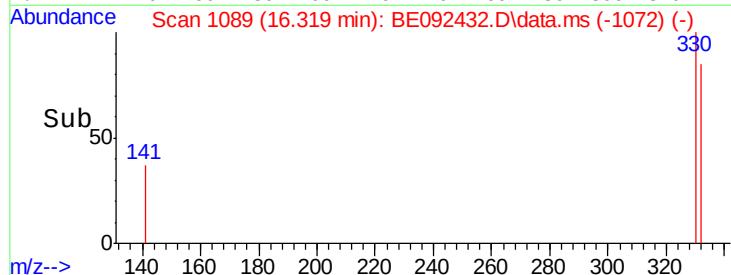
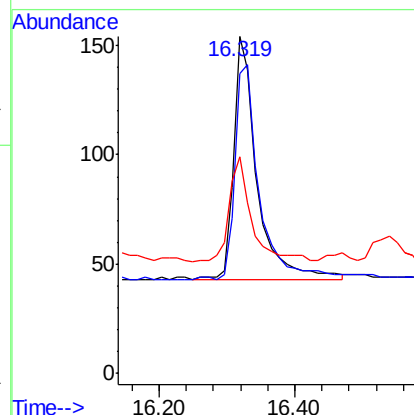
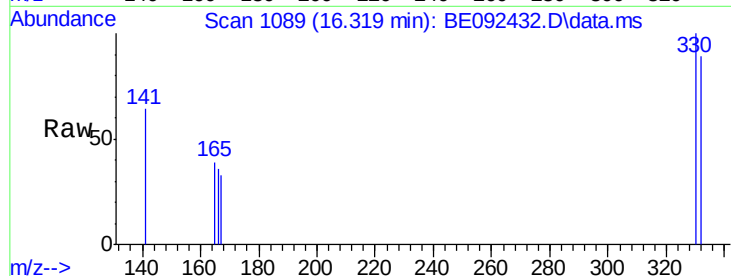




#13
 2,4,6-Tribromophenol
 Concen: 0.38 ng
 RT: 16.319 min Scan# 1089
 Delta R.T. 0.001 min
 Lab File: BE092432.D
 Acq: 30 Sep 2016 11:30

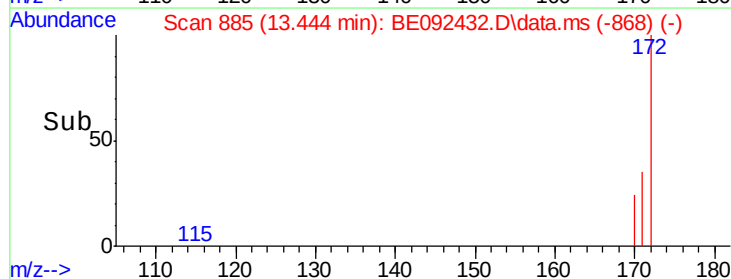
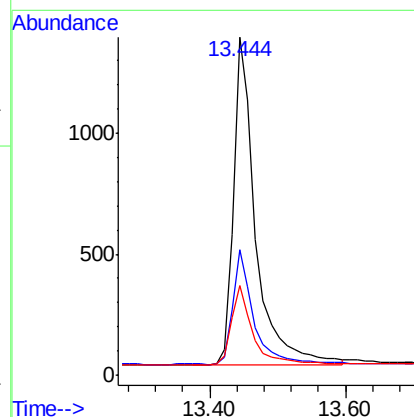
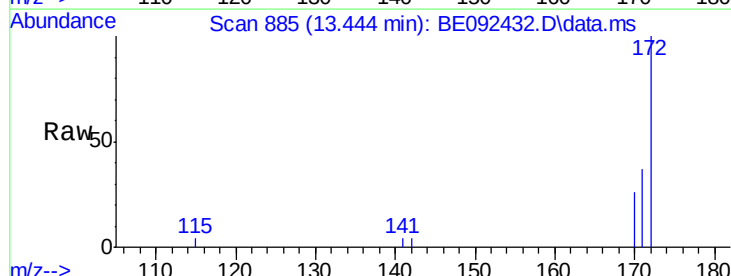
Instrument :
 BNA_E
 ClientSampleId :

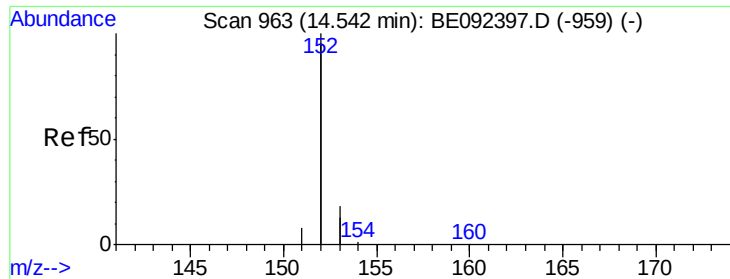
Tot Ion:330 Resp: 267
 Ion Ratio Lower Upper
 330 100
 332 92.9 75.4 113.0
 141 42.3 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 13.444 min Scan# 885
 Delta R.T. -0.001 min
 Lab File: BE092432.D
 Acq: 30 Sep 2016 11:30

Tgt Ion:172 Resp: 3074
 Ion Ratio Lower Upper
 172 100
 171 37.2 30.1 45.1
 170 26.4 21.8 32.6





#15

Acenaphthylene

Concen: 0.37 ng

RT: 14.525 min Scan# 96

Delta R.T. -0.000 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

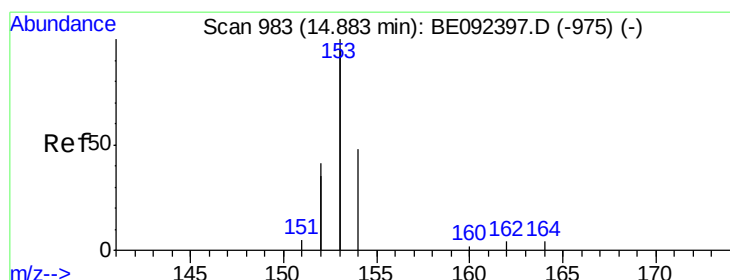
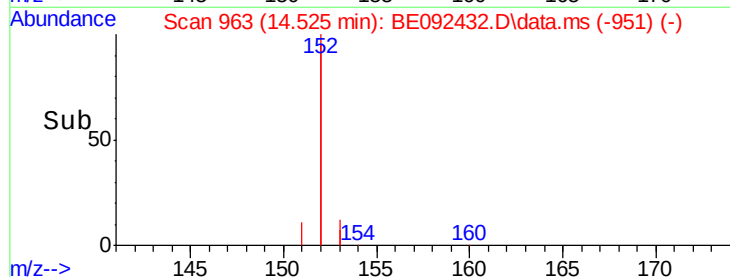
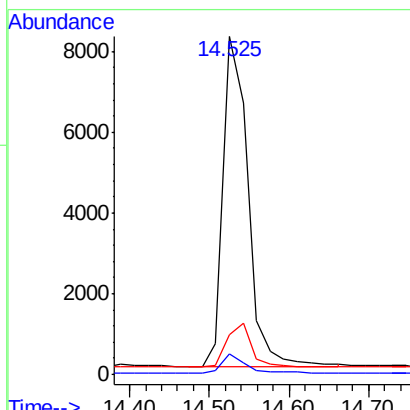
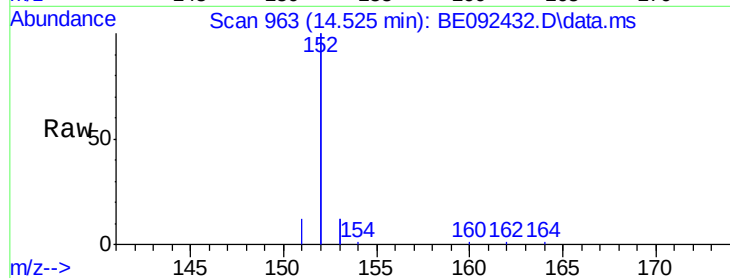
Tot Ion:152 Resp: 17607

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

153 12.9 10.4 15.6



#16

Acenaphthene

Concen: 0.39 ng

RT: 14.883 min Scan# 984

Delta R.T. -0.000 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

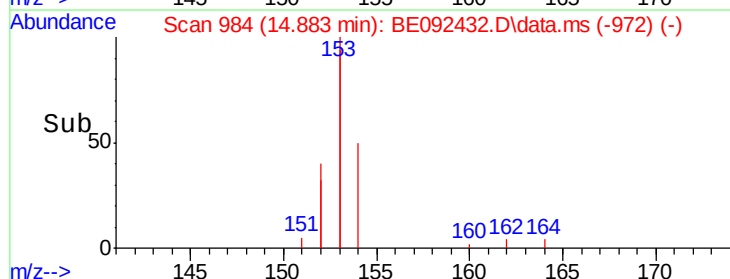
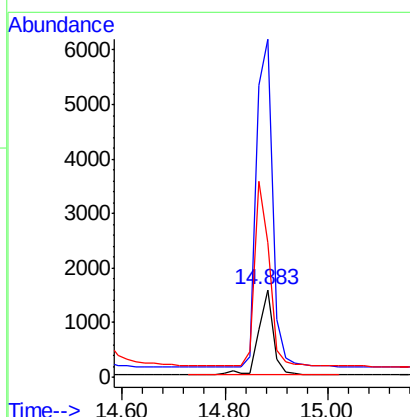
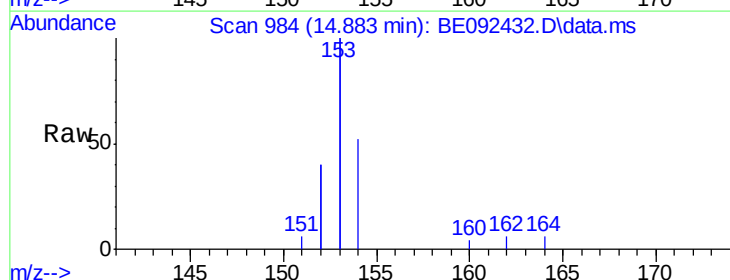
Tgt Ion:154 Resp: 2946

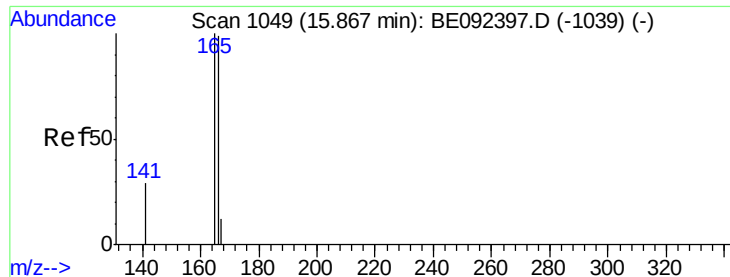
Ion Ratio Lower Upper

154 100

153 438.0 350.8 526.2

152 220.3 171.1 256.7

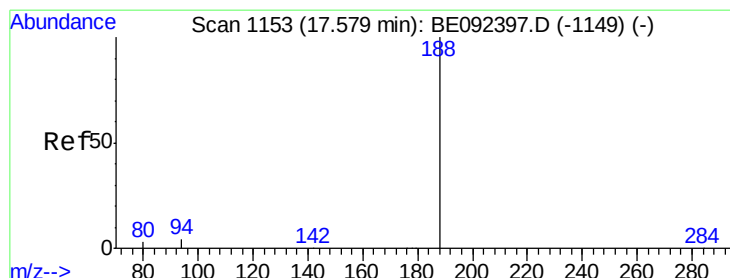
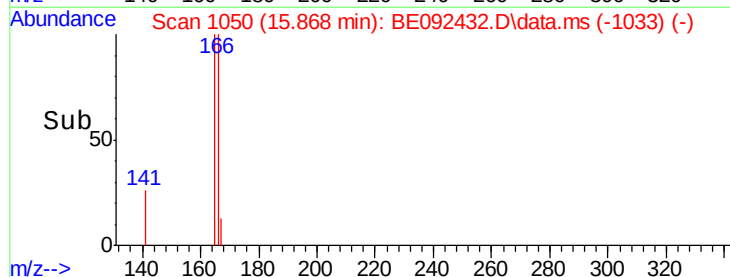
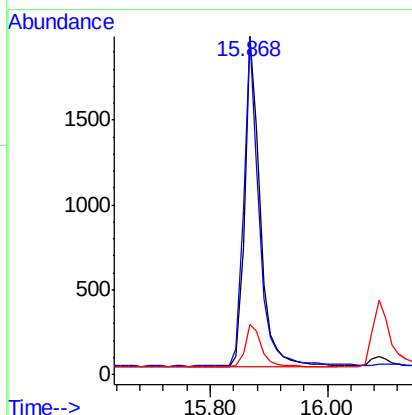
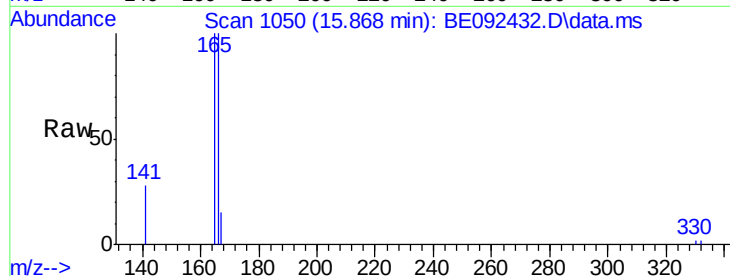




#17
Fluorene
Concen: 0.37 ng
RT: 15.868 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

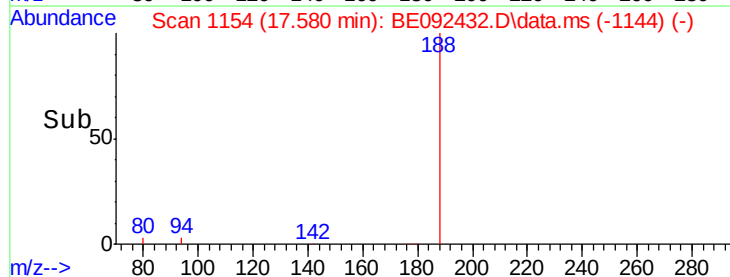
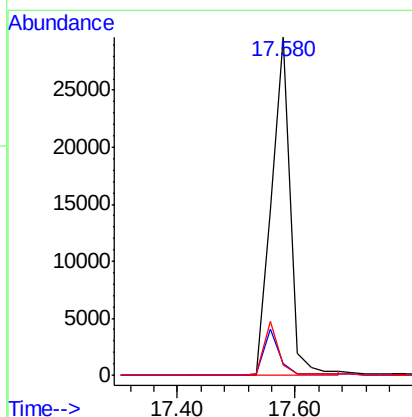
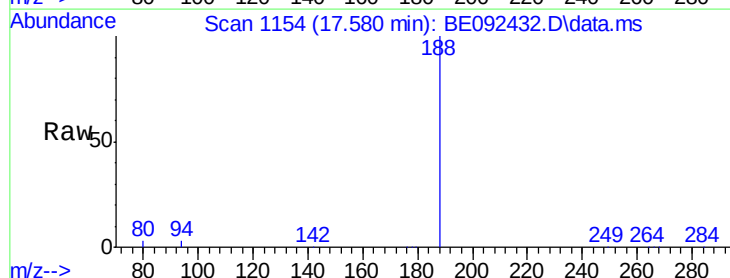
Instrument :
BNA_E
ClientSampleId :

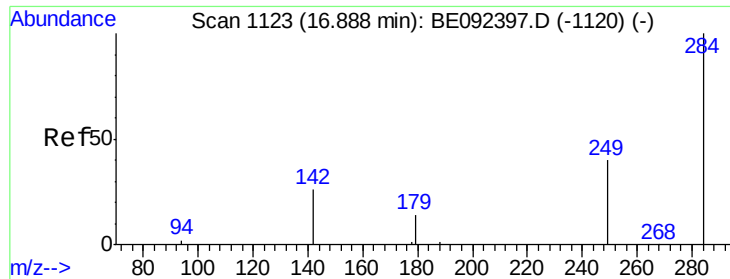
Tot Ion:166 Resp: 3558
Ion Ratio Lower Upper
166 100
165 97.7 78.2 117.4
167 13.5 11.0 16.4



#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.580 min Scan# 1154
Delta R.T. 0.024 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

Tgt Ion:188 Resp: 65322
Ion Ratio Lower Upper
188 100
94 3.5 3.2 4.8
80 2.9 2.6 3.8





#19

Hexachlorobenzene

Concen: 0.43 ng

RT: 16.889 min Scan# 111

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

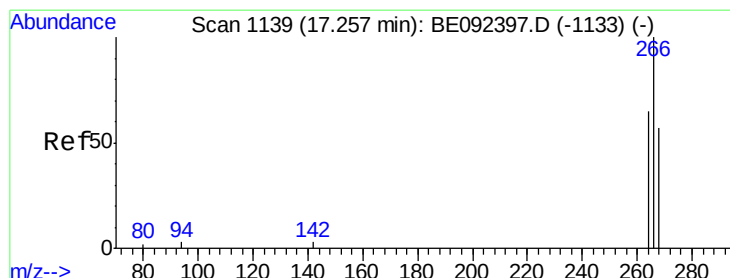
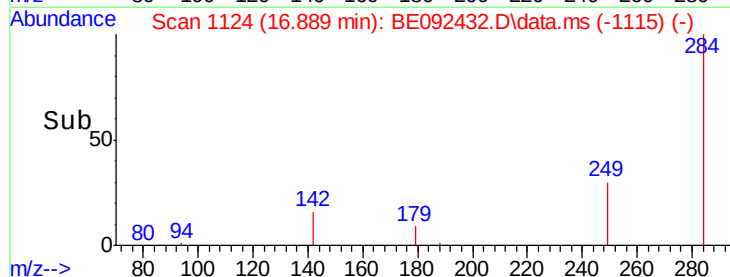
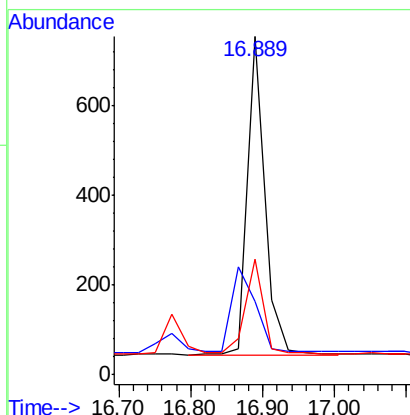
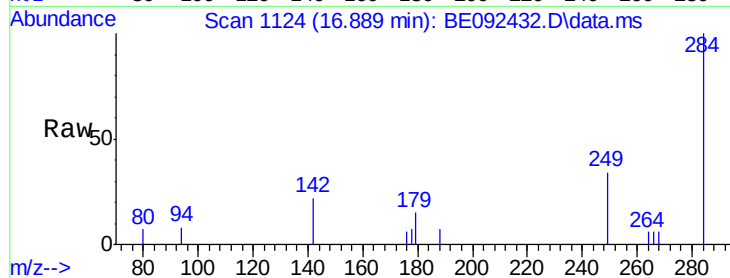
Tot Ion:284 Resp: 1200

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

249 29.5 27.9 41.9



#20

Pentachlorophenol

Concen: 0.35 ng

RT: 17.258 min Scan# 1140

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

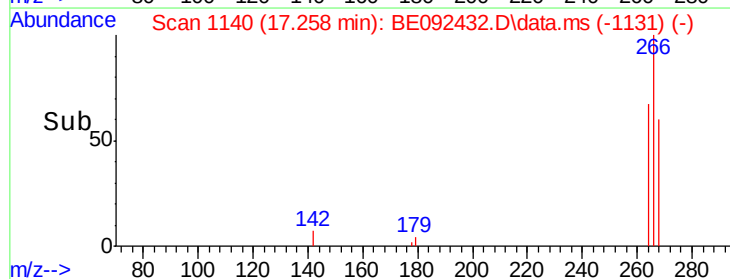
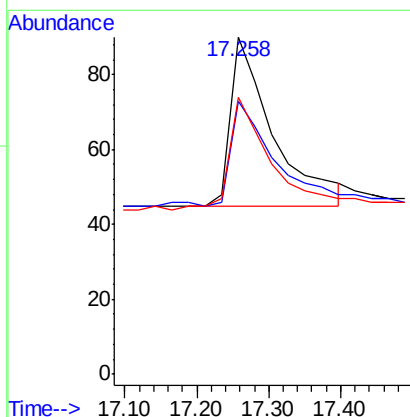
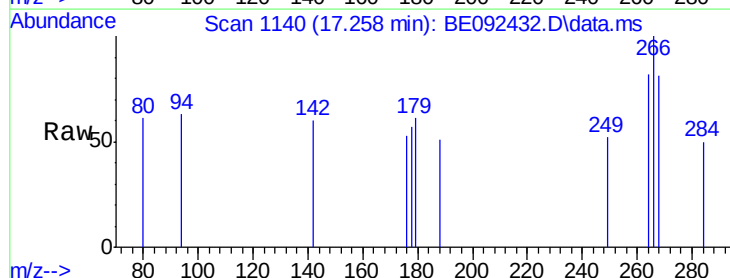
Tgt Ion:266 Resp: 182

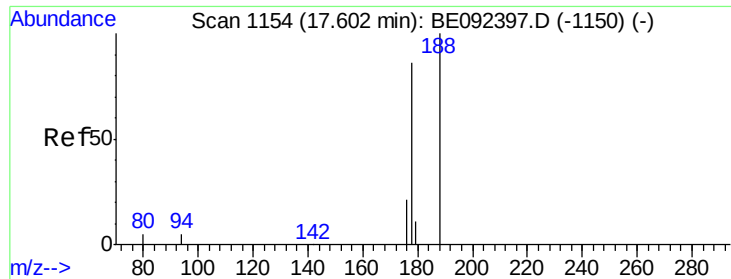
Ion Ratio Lower Upper

266 100

268 81.1 62.5 93.7

264 82.2 57.2 85.8





#21

Phenanthrene

Concen: 0.42 ng

RT: 17.603 min Scan# 1154

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

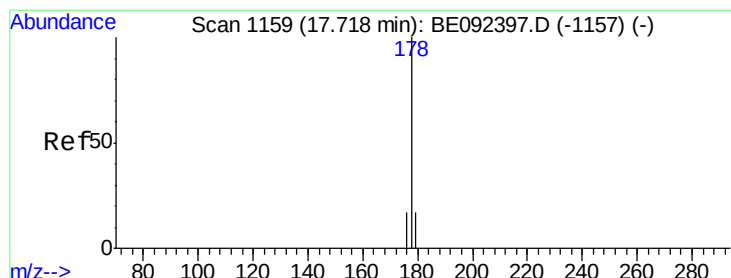
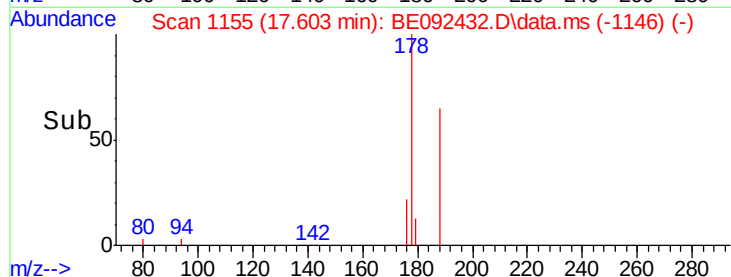
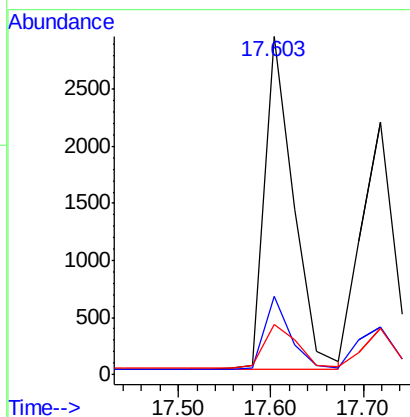
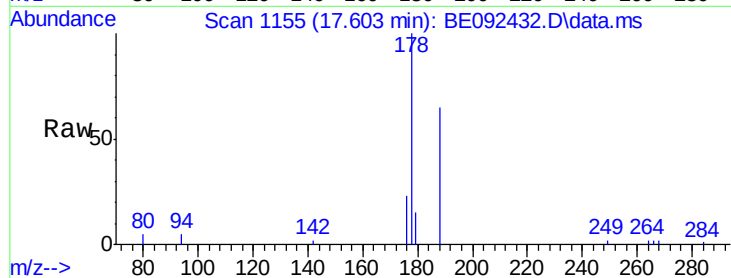
Tot Ion:178 Resp: 6307

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

179 15.9 16.0 24.0#



#22

Anthracene

Concen: 0.37 ng

RT: 17.719 min Scan# 1160

Delta R.T. 0.024 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

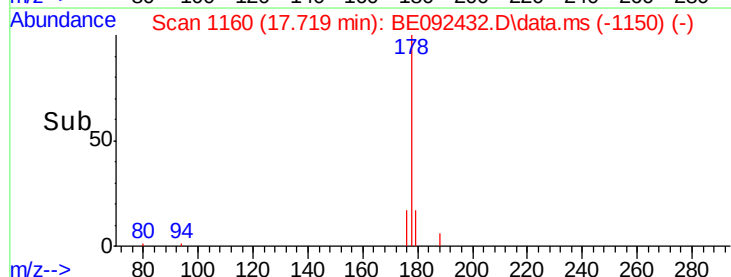
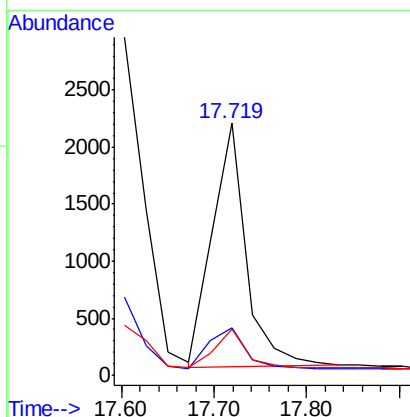
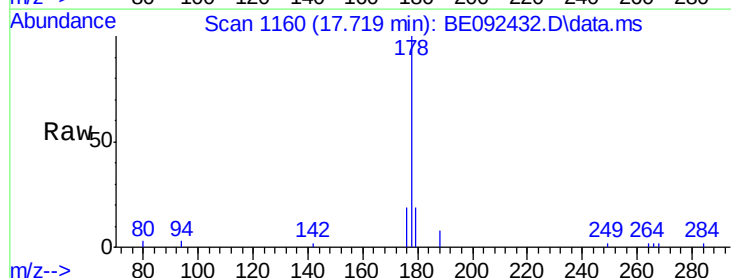
Tgt Ion:178 Resp: 5396

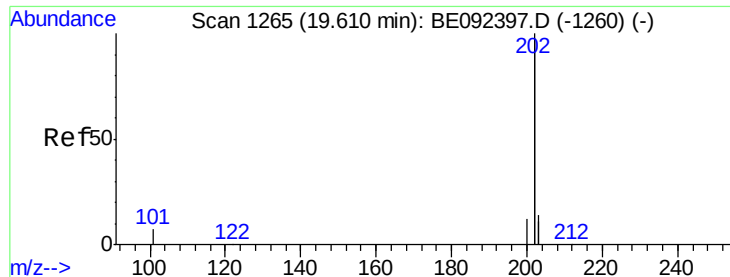
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.0 12.2 18.2





#23

Fluoranthene

Concen: 0.36 ng

RT: 19.612 min Scan# 1265

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

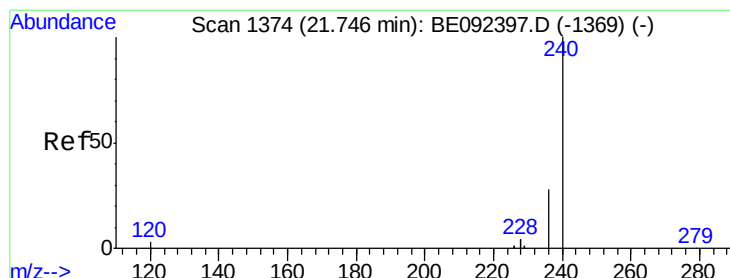
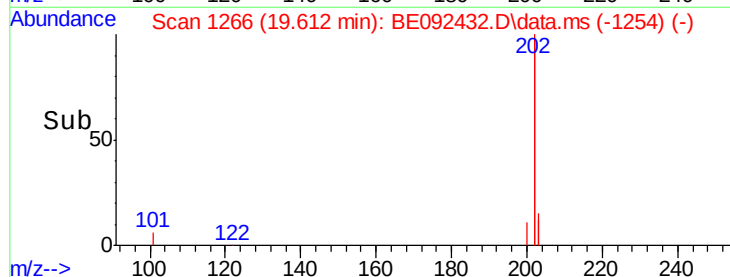
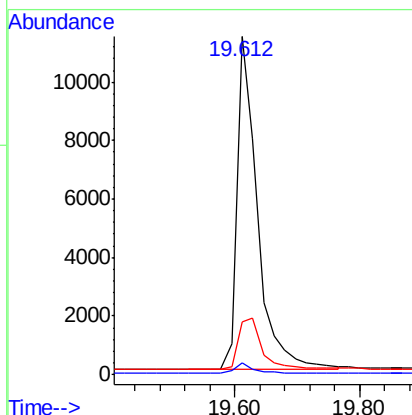
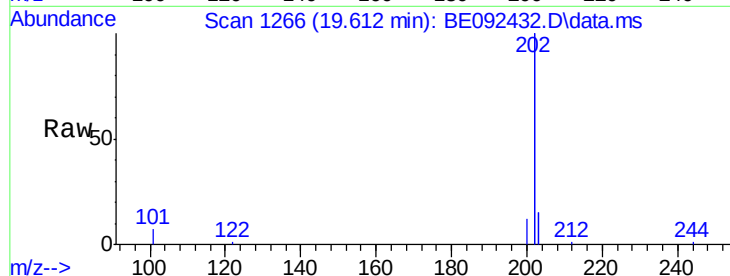
Tot Ion:202 Resp: 25710

Ion Ratio Lower Upper

202 100

101 2.9 2.2 3.4

203 17.7 13.7 20.5



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.747 min Scan# 1375

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

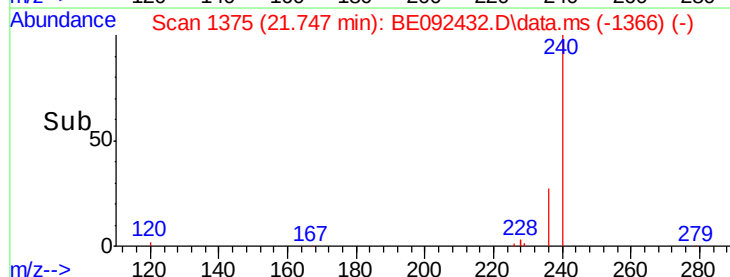
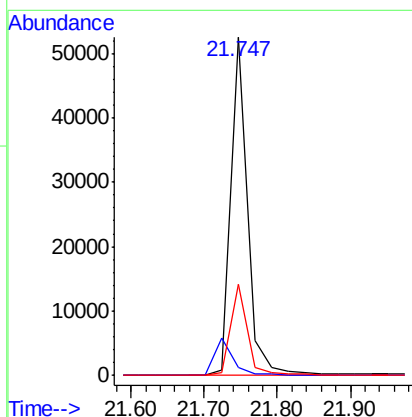
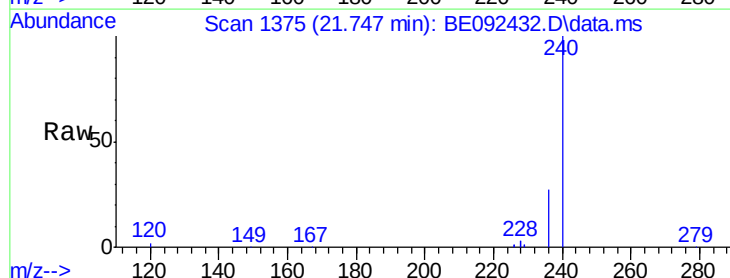
Tgt Ion:240 Resp: 83243

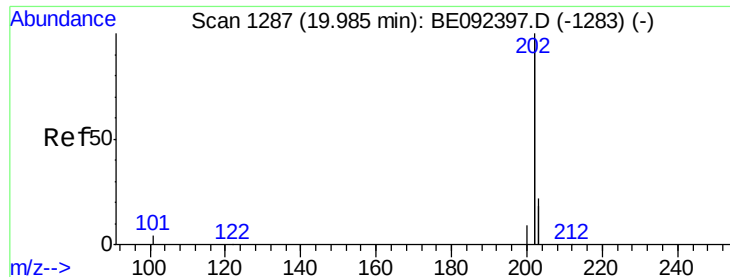
Ion Ratio Lower Upper

240 100

120 2.2 2.6 4.0#

236 26.8 24.6 37.0





#25

Pvrene

Concen: 0.38 ng

RT: 19.970 min Scan# 12

Delta R.T. 0.001 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

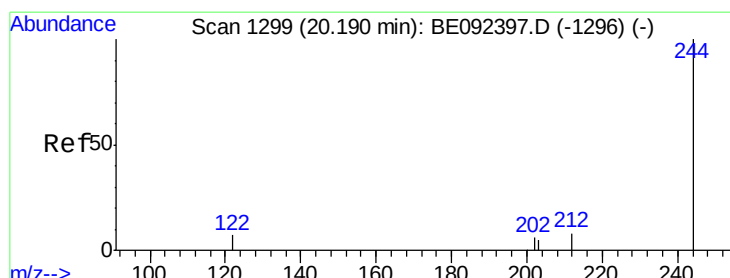
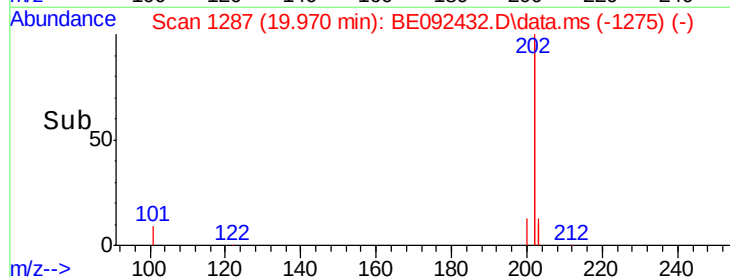
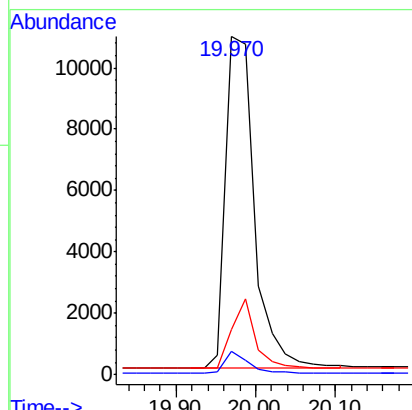
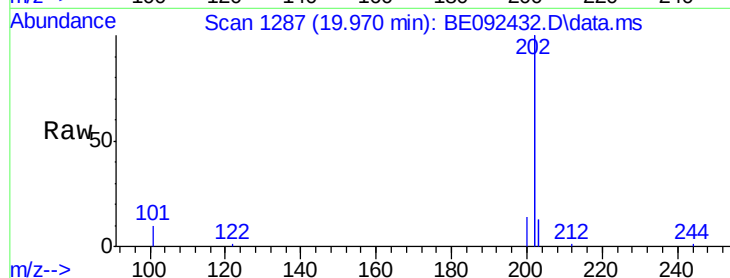
Tot Ion:202 Resp: 27174

Ion Ratio Lower Upper

202 100

200 5.3 4.2 6.4

203 17.4 13.9 20.9



#26

Terphenyl-d14

Concen: 0.37 ng

RT: 20.191 min Scan# 1300

Delta R.T. 0.018 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

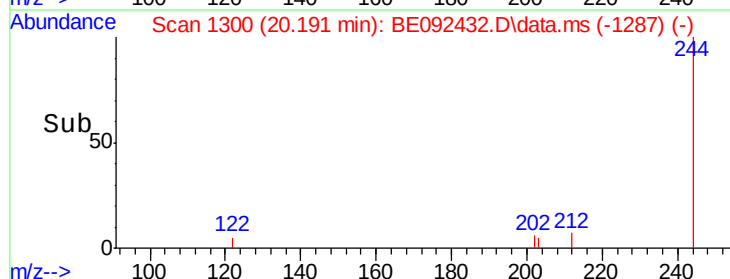
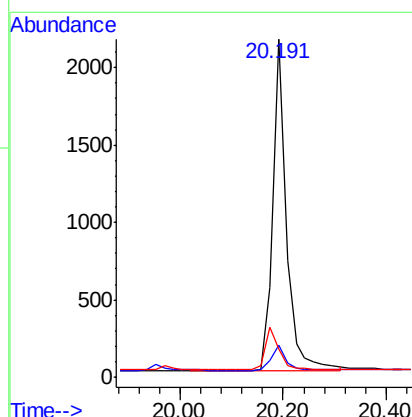
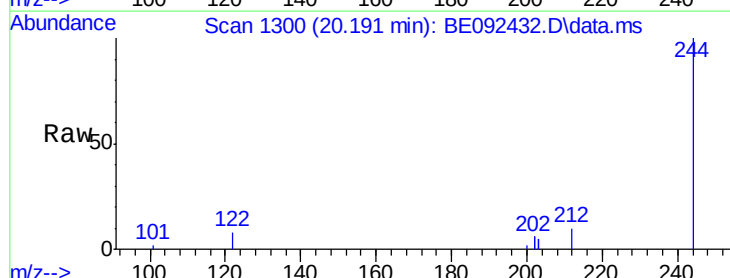
Tgt Ion:244 Resp: 3870

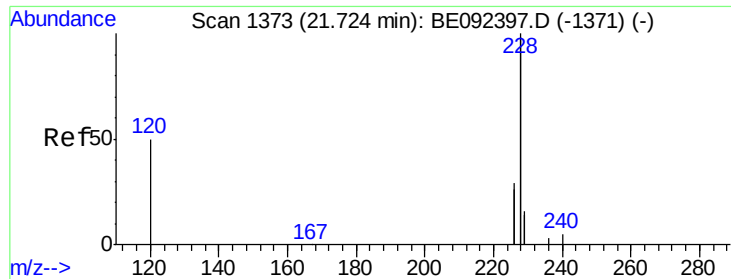
Ion Ratio Lower Upper

244 100

212 9.7 6.7 10.1

122 8.2 3.6 5.4#

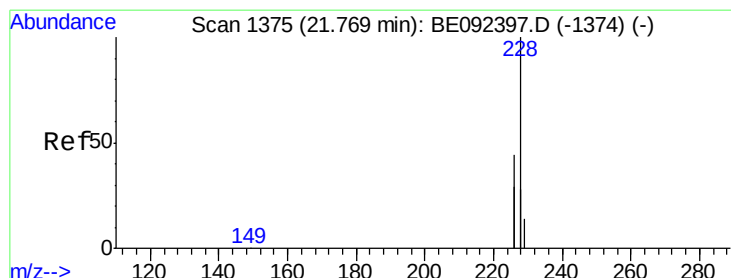
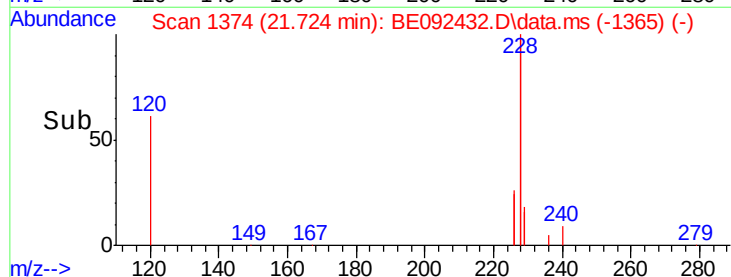
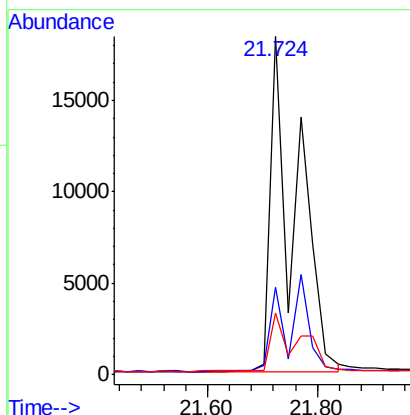
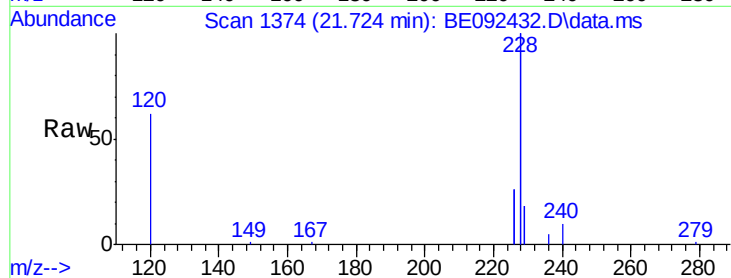




#27
Benzo(a)anthracene
Concen: 0.74 ng
RT: 21.724 min Scan# 1373
Delta R.T. 0.001 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

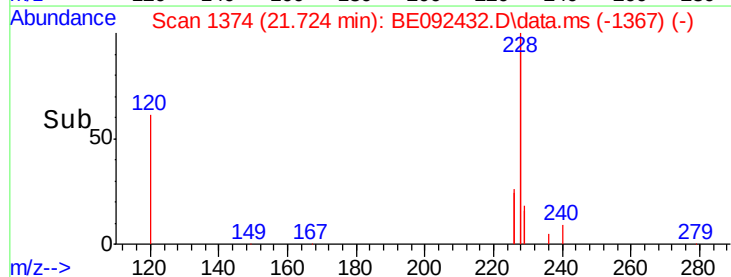
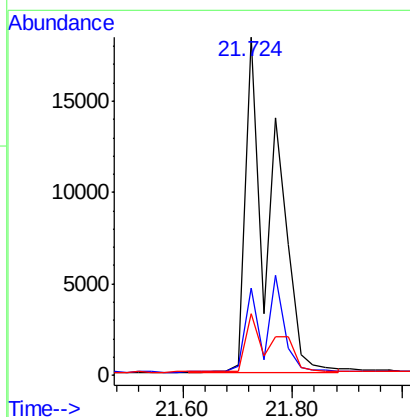
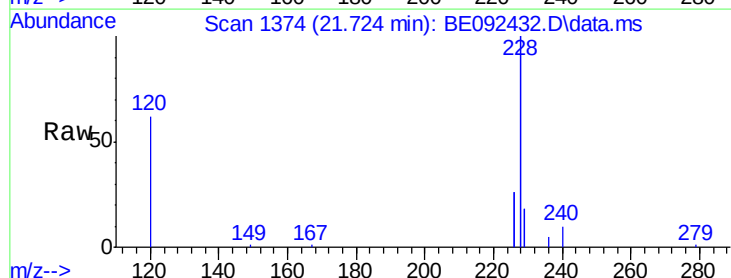
Instrument :
BNA_E
ClientSampleId :

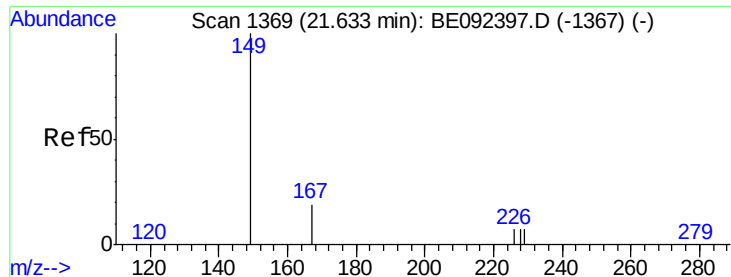
Tot Ion	Ratio	Lower	Upper
228	100		
226	26.0	23.6	35.4
229	18.1	13.3	19.9



#28
Chrysene
Concen: 0.81 ng
RT: 21.724 min Scan# 1374
Delta R.T. -0.044 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.0	36.3	54.5#
229	18.1	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.28 ng

RT: 21.634 min Scan# 1369

Delta R.T. 0.001 min

Lab File: BE092432.D

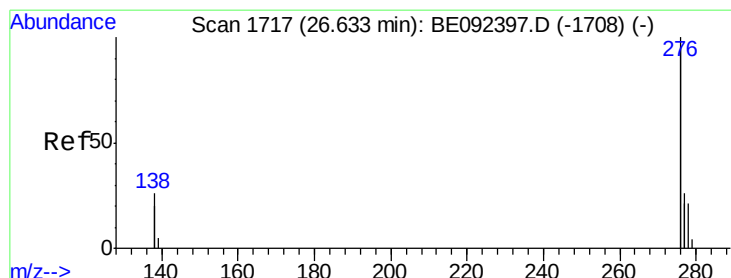
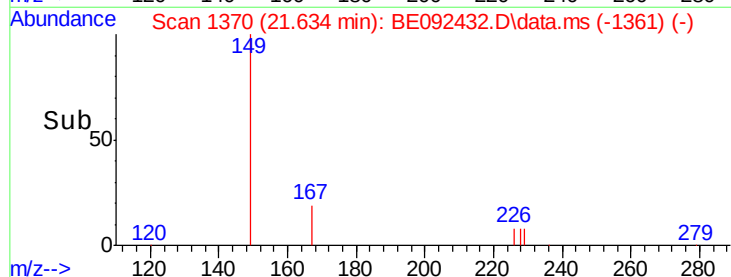
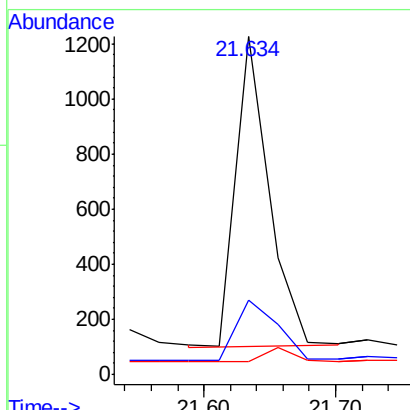
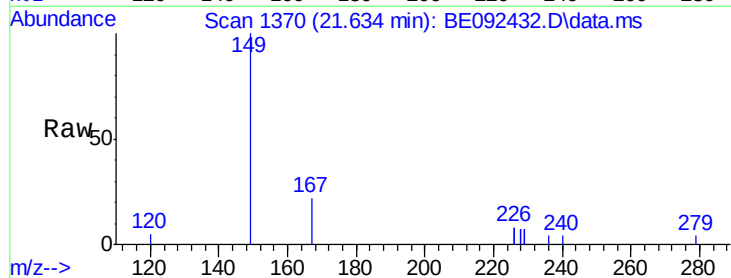
Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

Tot Ion:149	Resp:	1981
Ion Ratio	Lower	Upper
149	100	
167	24.5	16.0 24.0#
279	0.0	16.0 24.0#



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.34 ng

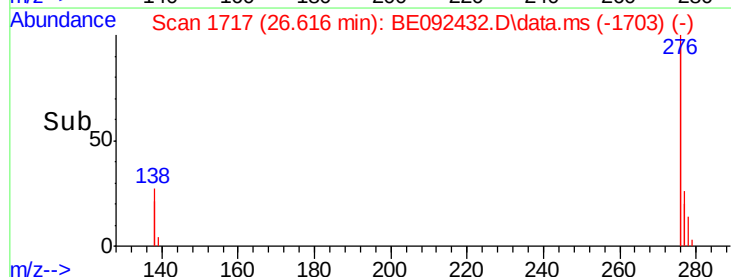
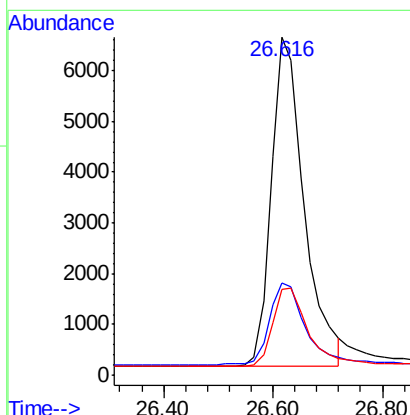
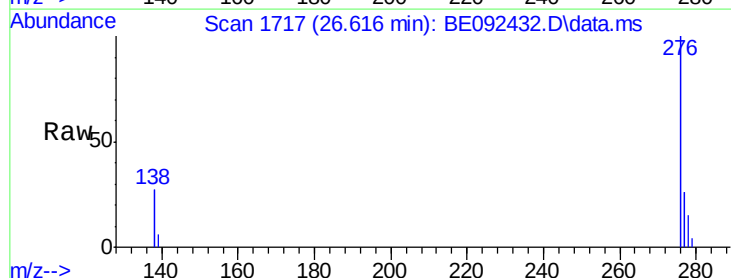
RT: 26.616 min Scan# 1717

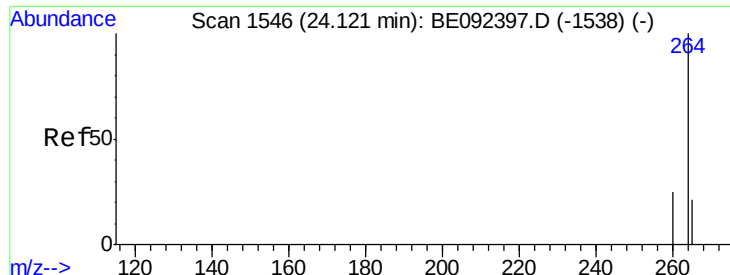
Delta R.T. 0.035 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Tgt Ion:276	Resp:	26946
Ion Ratio	Lower	Upper
276	100	
138	27.0	20.3 30.5
277	24.7	19.7 29.5





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.122 min Scan# 15

Delta R.T. 0.035 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

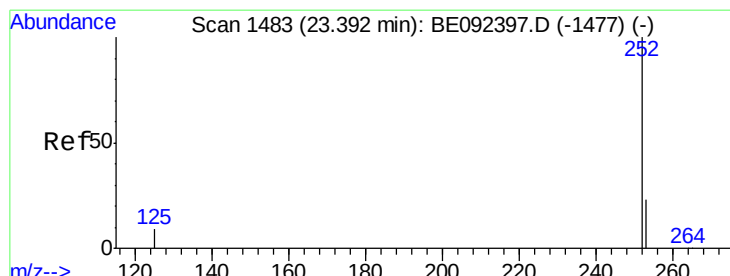
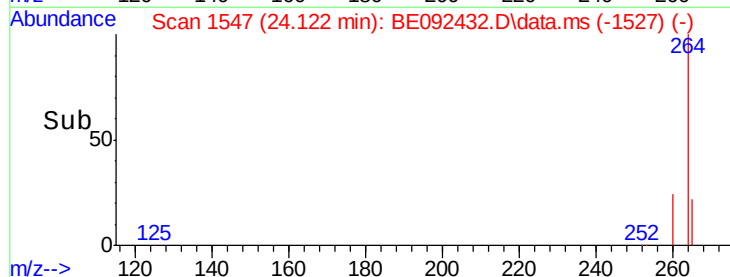
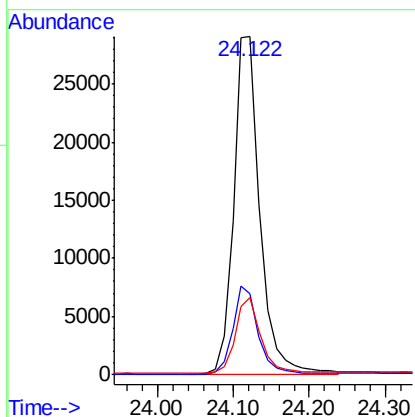
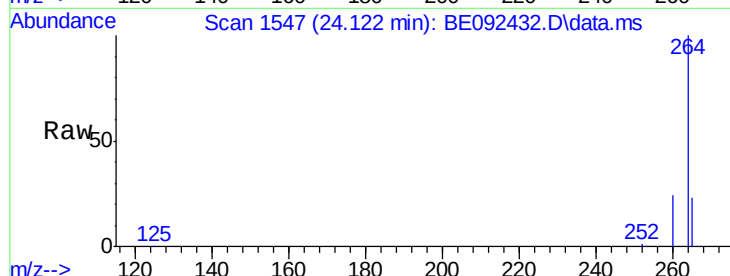
Tot Ion:264 Resp: 69843

Ion Ratio Lower Upper

264 100

260 23.9 20.1 30.1

265 22.6 17.9 26.9



#32

Benzo(b)fluoranthene

Concen: 0.36 ng

RT: 23.382 min Scan# 1483

Delta R.T. 0.024 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

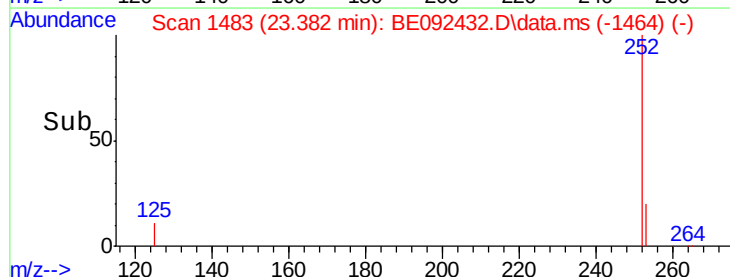
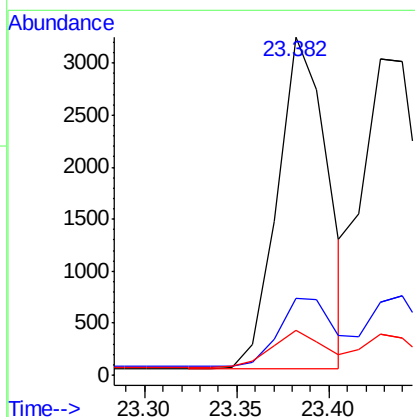
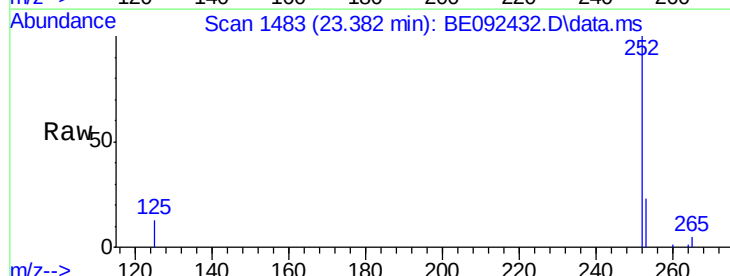
Tgt Ion:252 Resp: 6091

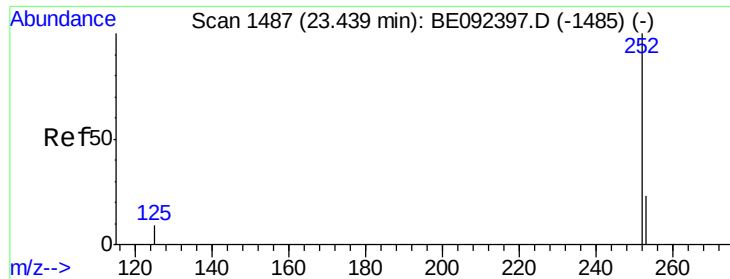
Ion Ratio Lower Upper

252 100

253 22.6 18.7 28.1

125 13.3 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.40 ng

RT: 23.428 min Scan# 14

Delta R.T. 0.024 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

Instrument :

BNA_E

ClientSampleId :

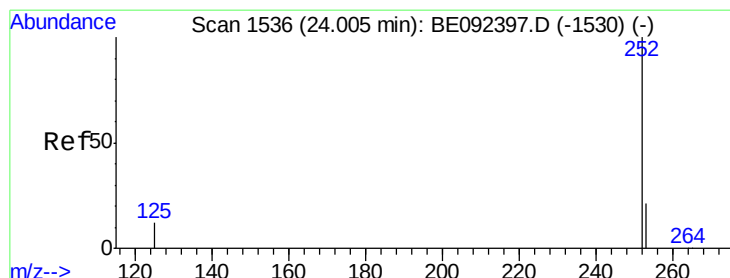
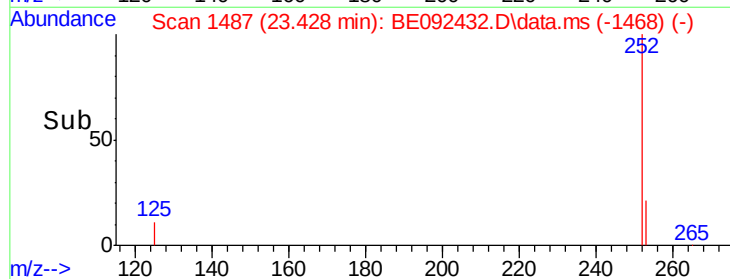
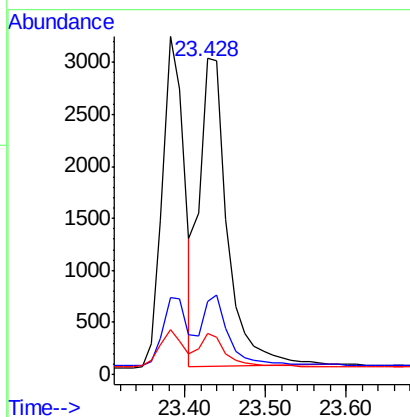
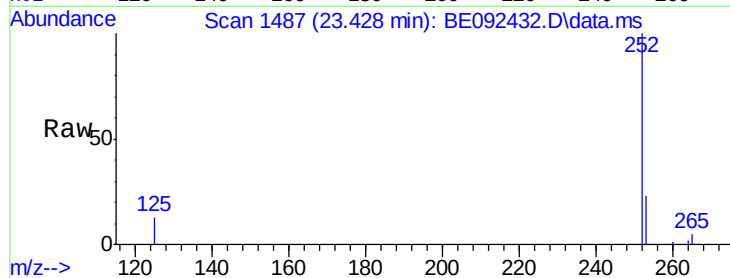
Tot Ion:252 Resp: 7141

Ion Ratio Lower Upper

252 100

253 23.0 20.3 30.5

125 13.1 9.6 14.4



#34

Benzo(a)pyrene

Concen: 0.37 ng

RT: 24.006 min Scan# 1537

Delta R.T. 0.024 min

Lab File: BE092432.D

Acq: 30 Sep 2016 11:30

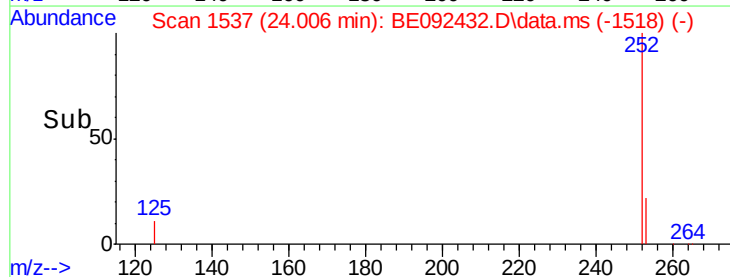
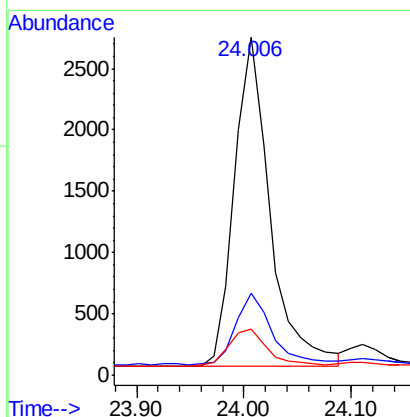
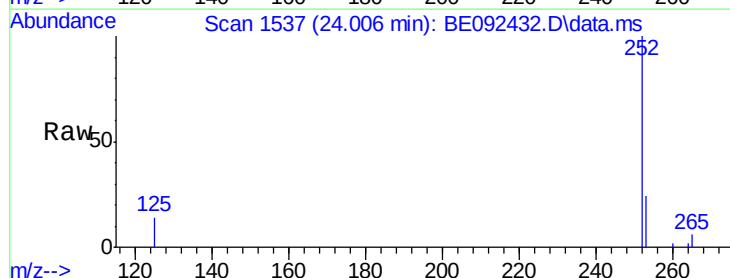
Tgt Ion:252 Resp: 6171

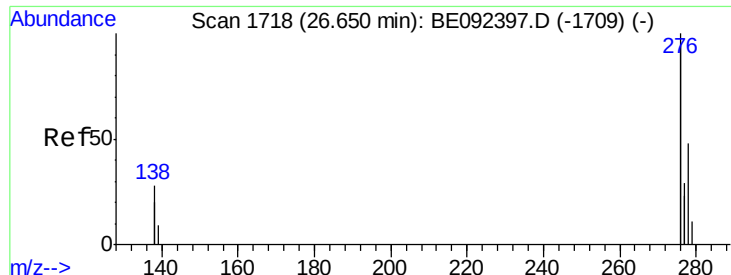
Ion Ratio Lower Upper

252 100

253 24.2 19.0 28.6

125 13.8 11.8 17.8

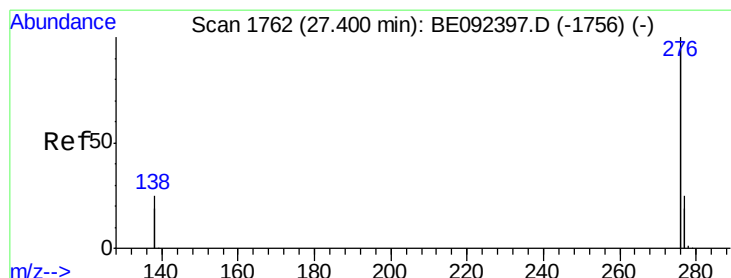
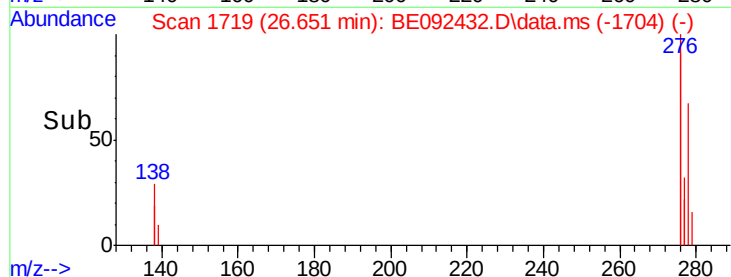
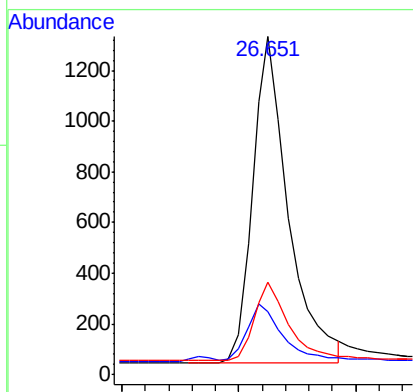
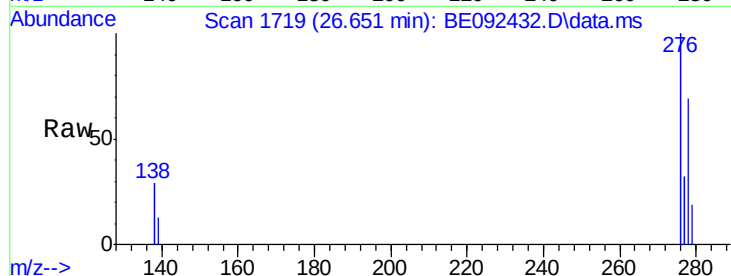




#35
Dibenzo(a,h)anthracene
Concen: 0.36 ng
RT: 26.651 min Scan# 1718
Delta R.T. 0.052 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 5453
Ion Ratio Lower Upper
278 100
139 18.6 13.8 20.8
279 27.4 21.4 32.2



#36
Benzo(g,h,i)perylene
Concen: 0.37 ng
RT: 27.400 min Scan# 1763
Delta R.T. 0.052 min
Lab File: BE092432.D
Acq: 30 Sep 2016 11:30

Tgt Ion:276 Resp: 24342
Ion Ratio Lower Upper
276 100
277 26.6 19.8 29.8
138 24.1 19.8 29.6

