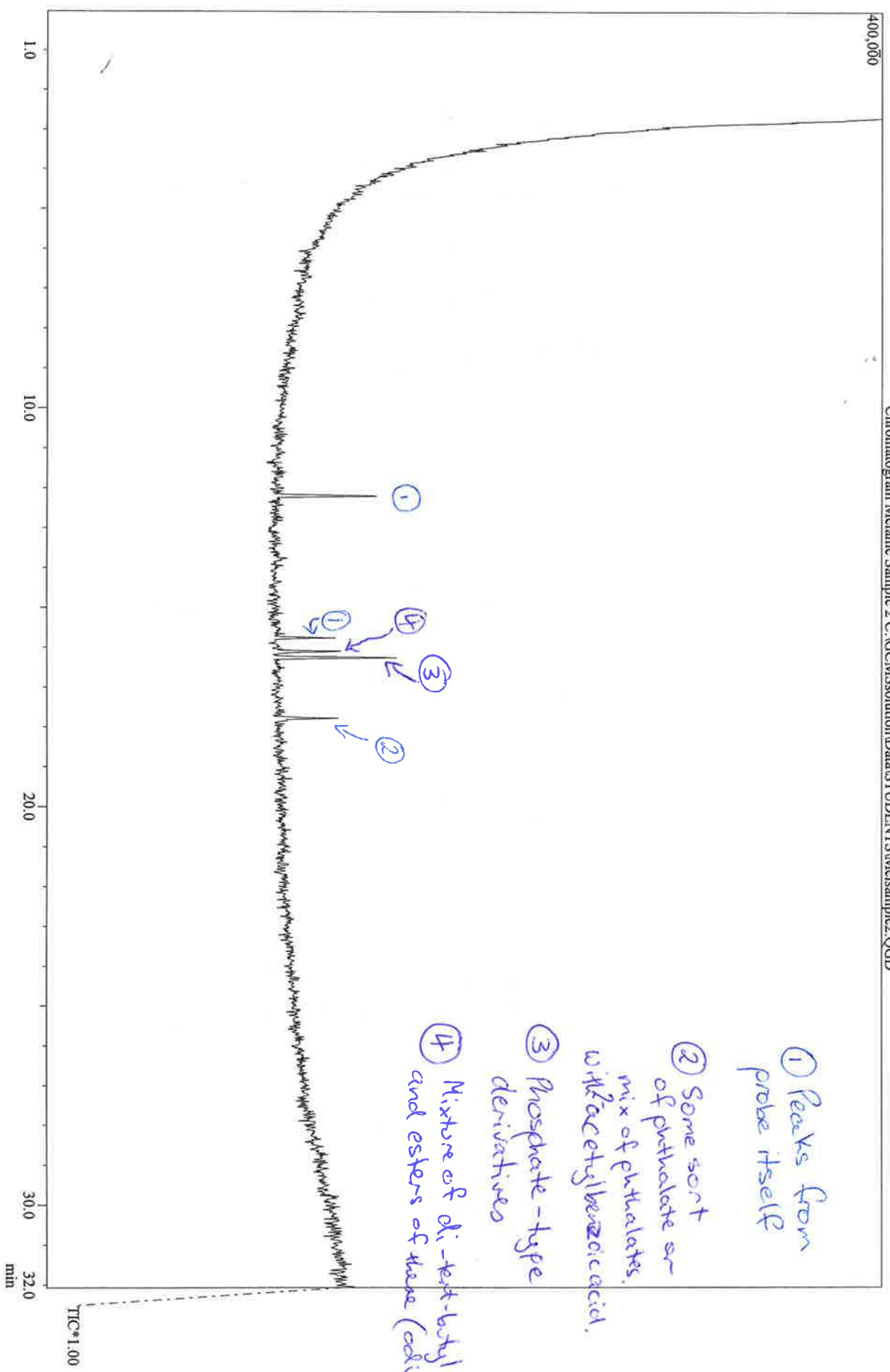


50cc HPLC bottle with Z-type nanomolecules

Chromatogram Melamine Sample 2 C:\GCMSsolution\Data\STUDENT\SM\sample2.QGD



① Peaks from probe itself

② Some sort of phthalate or mix of phthalates. with Acetylbenzoic acid.

③ Phosphate-type derivatives

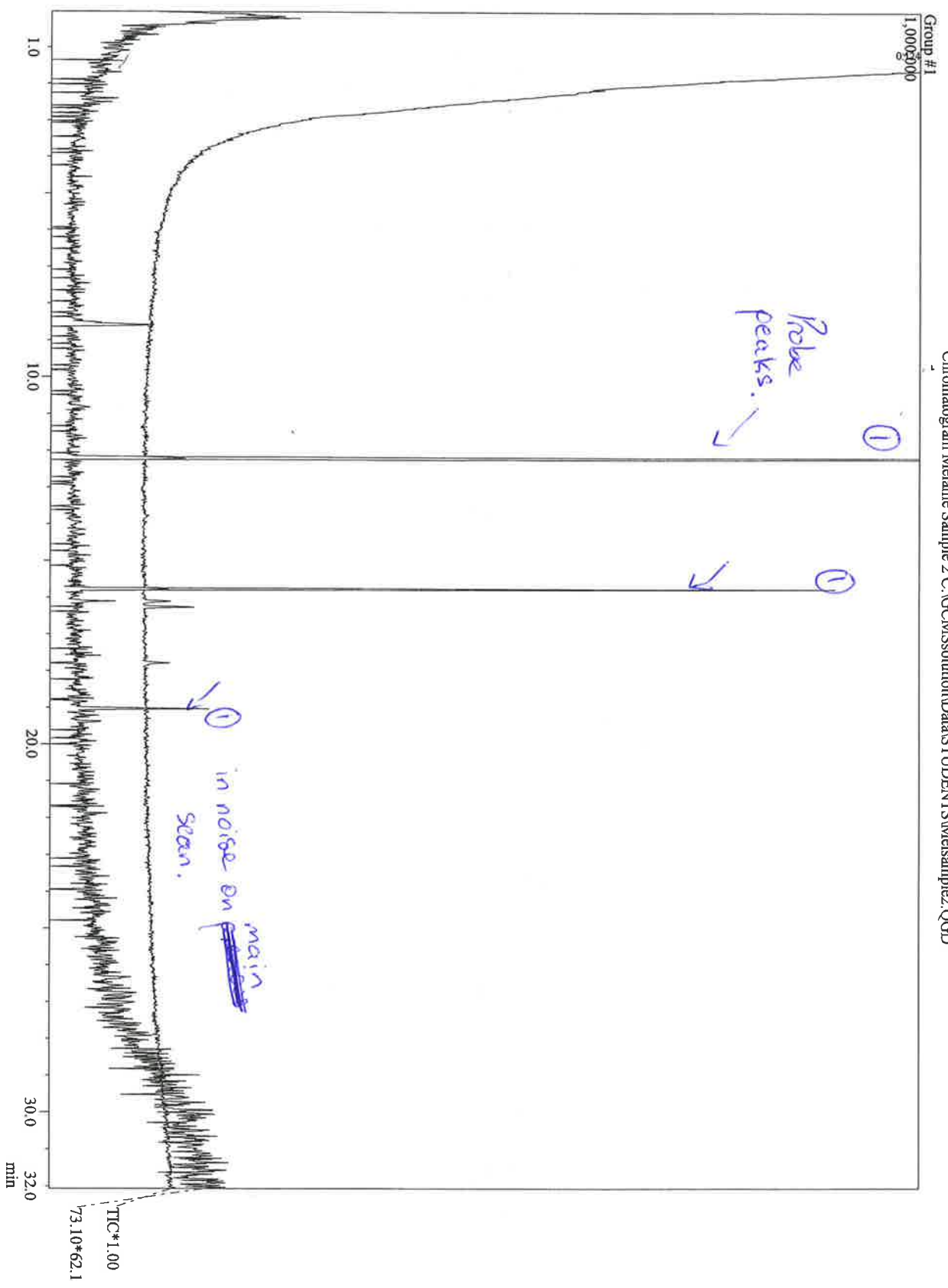
④ Mixture of di-tert-butyl phenols and esters of thaps (califerous)

PEAKS ①

C:\GCMSsolution\Data\STUDENTS\MS\sample2.QGD

ZnR sample

Chromatogram Melanie Sample 2 C:\GCMSsolution\Data\STUDENTS\MS\sample2.QGD

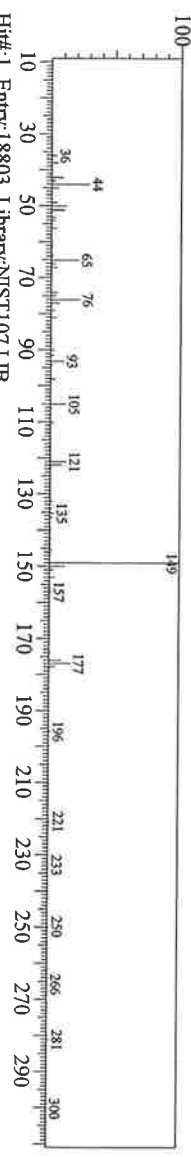


Peak 2

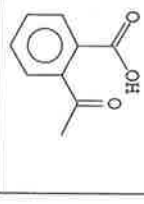
ZnPe Sample

Library Search

<< Target >>  
Line# 1 R Time: 17.783(Scan#: 1067) MassPeaks: 162  
RawMode: Single 17.783(1067) BasePeak: 149.00(8773)  
BG Mode: 17.733(1064)



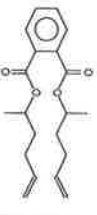
Hit# 1 Entry: 18803 Library: NIST107.LIB  
SI: 75 Formula: C9H8O3 CAS: 577-56-0 MolWeight: 164 RetIndex: 0  
CompName: 2-Acetylbenzoic acid \$ Acetophenone-2-carboxylic acid \$ Benzoic acid, 2-acetyl- \$



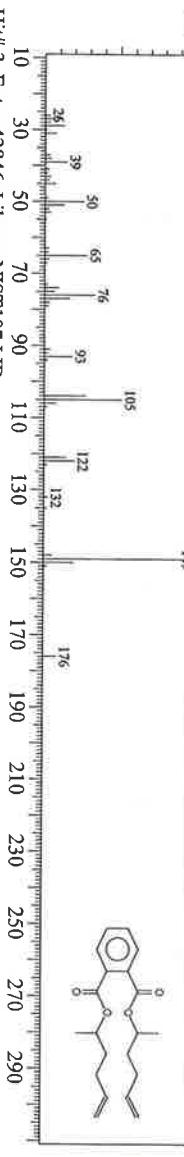
2-Acetylbenzoic acid



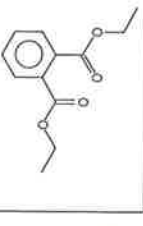
Hit# 2 Entry: 79730 Library: NIST107.LIB  
SI: 75 Formula: C20H26O4 CAS: 0-0-0 MolWeight: 330 RetIndex: 0  
CompName: Phthalic acid, di-(1-hexen-5-yl) ester \$



Phthalic acid derivative



Hit# 3 Entry: 43846 Library: NIST107.LIB  
SI: 75 Formula: C12H14O4 CAS: 84-66-2 MolWeight: 222 RetIndex: 0  
CompName: Diethyl phthalate \$ 1,2-Benzenedicarboxylic acid, diethyl ester \$ o-Benzenedicarboxy-



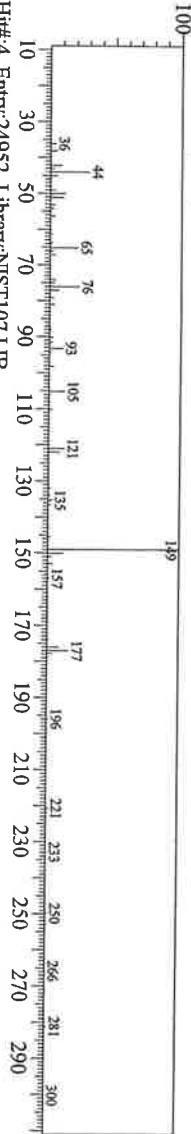
Diethyl phthalate

Probably a mix of these.

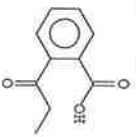
PEAK 2 continued

Zn Pe sample

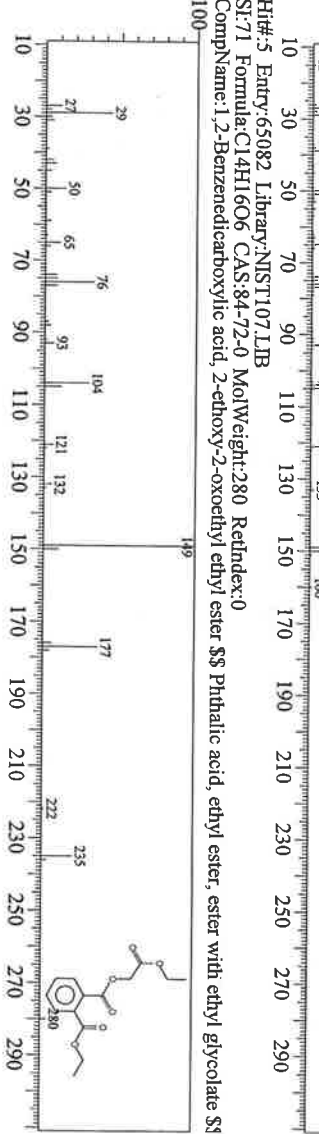
<< Target >>  
Line#: 1 R Time: 17.783(Scan#: 1067) MassPeaks: 162  
RawMode: Single 17.783(1067) BasePeak: 149.00(8773)  
BG Mode: 17.783(1064)



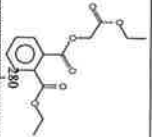
Hit#: 4 Entry: 24952 Library: NIST107.LIB  
SE: 71 Formula: C10H10O3 CAS: 2360-45-4 MolWeight: 178 RetIndex: 0  
CompoundName: Benzoic acid, 2-(1-oxopropyl)-



other options



Hit#: 5 Entry: 65082 Library: NIST107.LIB  
SE: 71 Formula: C14H16O6 CAS: 84-72-0 MolWeight: 280 RetIndex: 0  
CompoundName: 1,2-Benzenedicarboxylic acid, 2-ethoxy-2-oxoethyl ester with ethyl glycolate

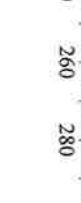
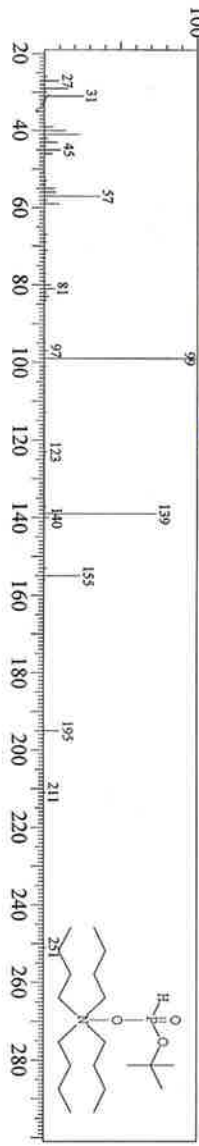
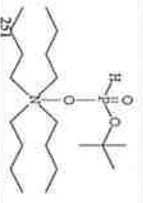
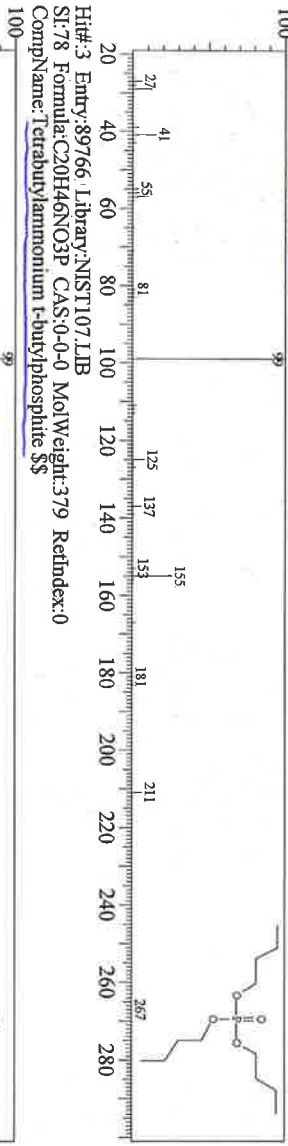
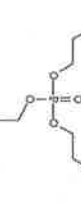
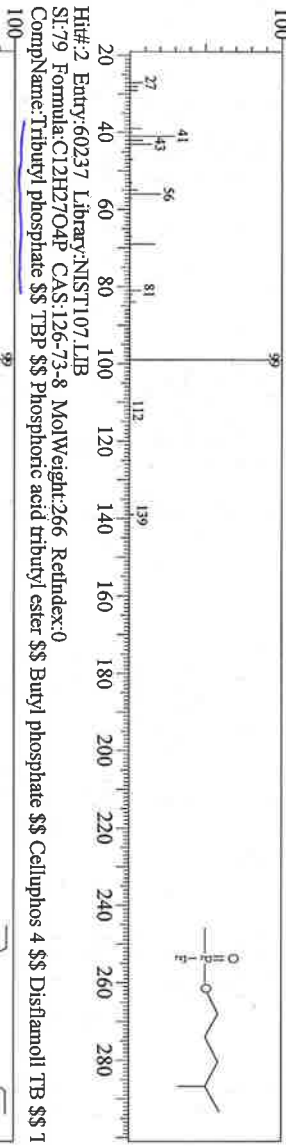
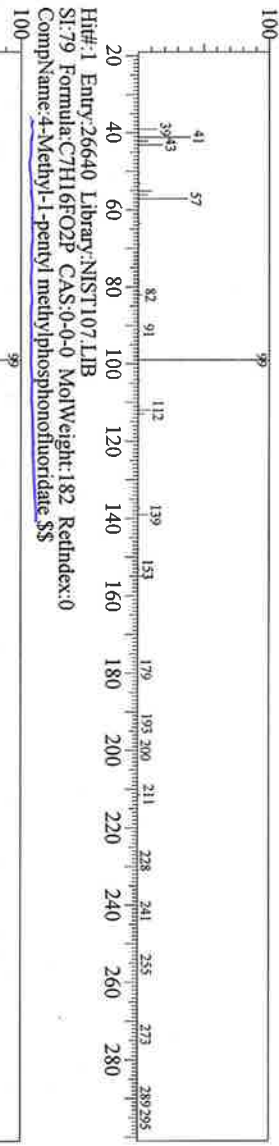


PEAK (3)

Zn Pe sample

Library Search

<< Target >>  
Line#: 1 R.Time: 16.267(Scan#: 976) MassPeaks: 123  
RawMode: Single 16.267(976) BasePeak: 99.00(21884)  
BG Mode: 16.217(973)



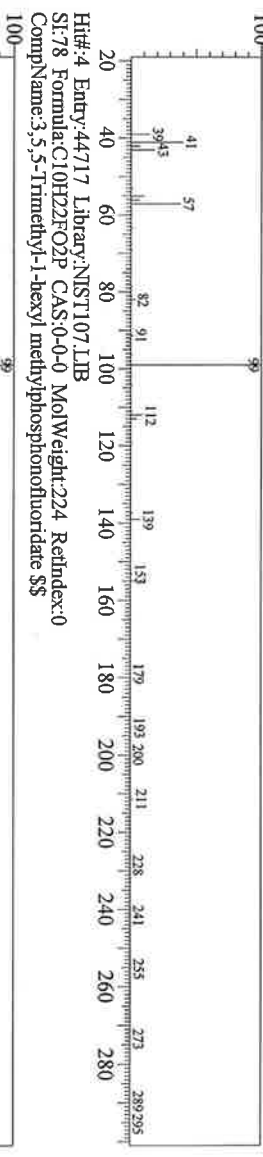
Mix of these



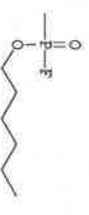
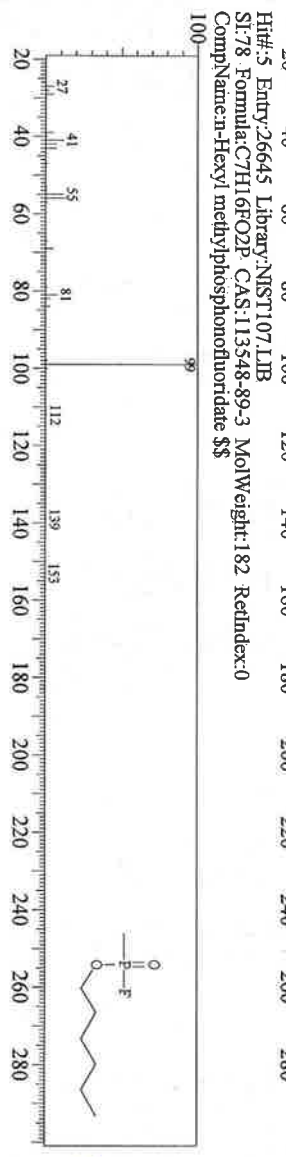
Peak 3 continued....

Zn P sample

<< Target >>  
Line#: 1 RTime: 16.267 (Scan#: 976) MassPeaks: 123  
RawMode: Single 16.267 (976) BasePeak: 99.00 (21884)  
BG Mode: 16.217 (973)



less likely





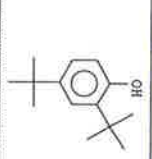
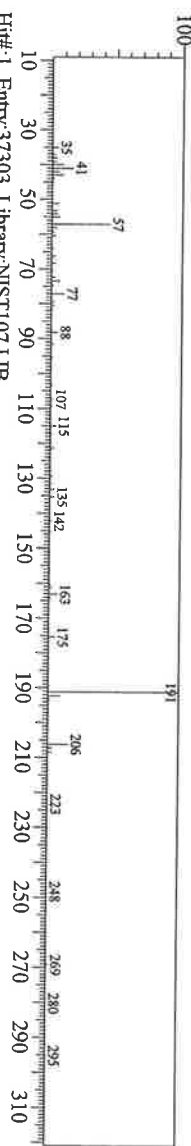
PEAK 4

ZnRc sample

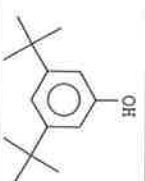
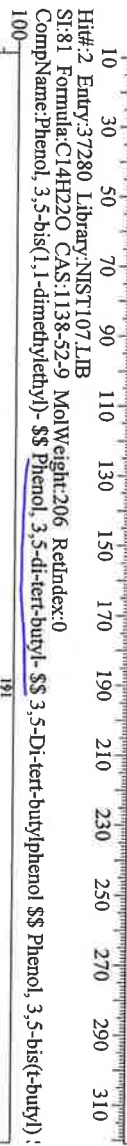
20/01/2009 15:41:45

Library Search

<< Target >>  
Line#: 1 R Time: 16.100(Scan#: 966) MassPeaks: 156  
RawMode: Single 16:100(966) BasePeak: 191.15(9893)  
BG Mode: 16.067(964)

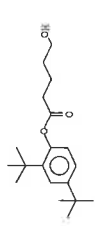
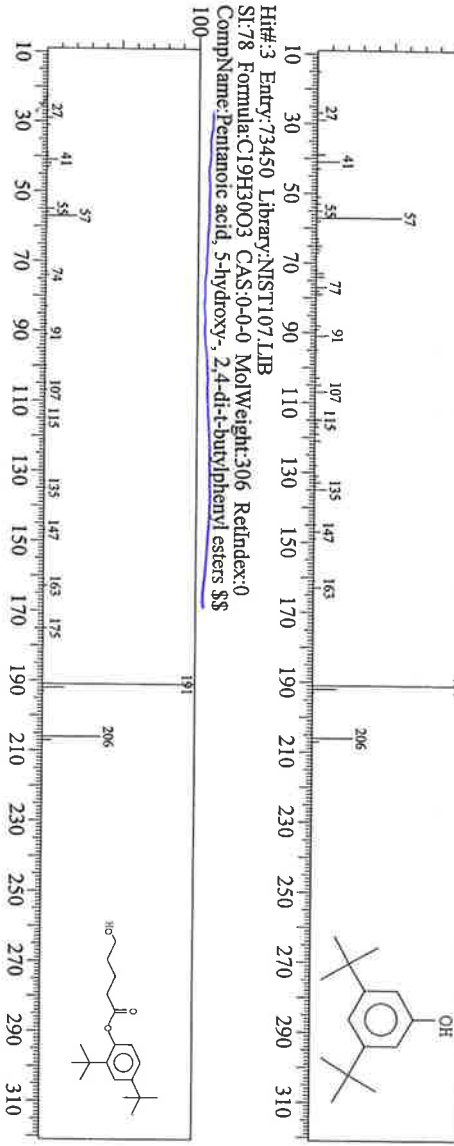


2,4-di-t-Butylphenol



3,5-di-tert-butylphenol

These would smell pretty bad, I'd guess.

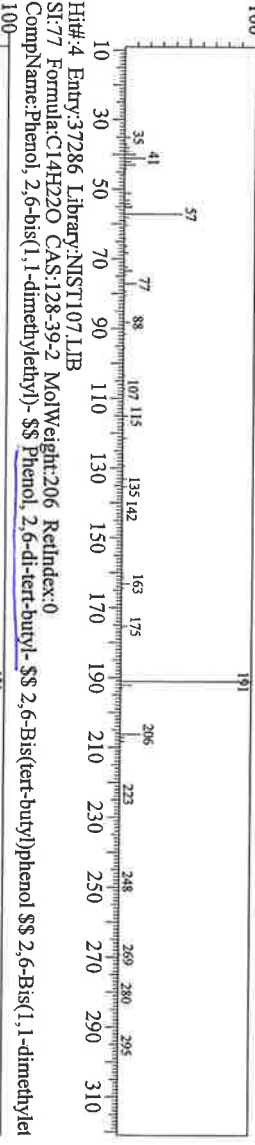


PEAK 4 continued . . .

Zn Pc sample

<< Target >>

Line#: 1 R-Time: 16.100(Scan#: 966) MassPeaks: 156  
RawMode: Single 16.100(966) BasePeak: 191.15(9893)  
BG Mode: 16.067(964)



2,6-di-tert-butylphenol  
↳ Another stinker.

