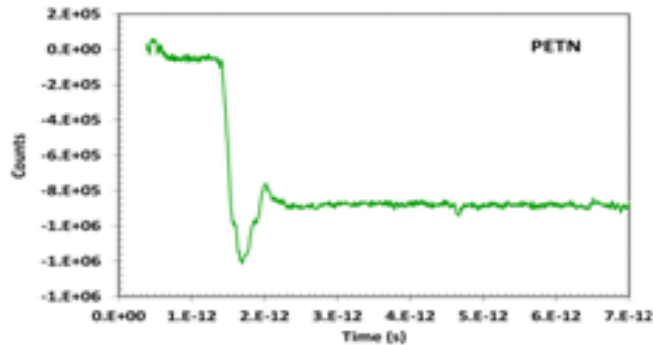
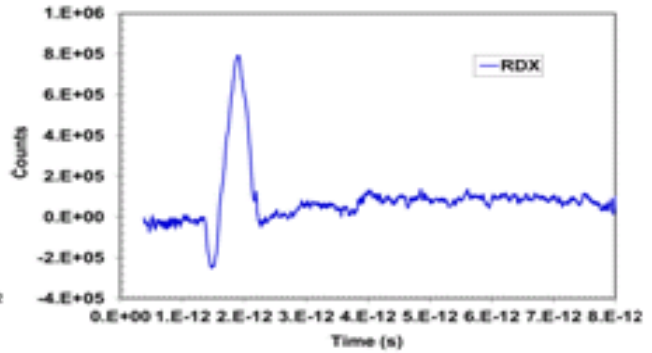
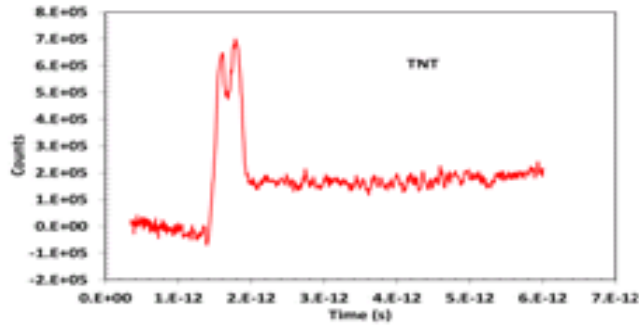


THz Time-domain Signals

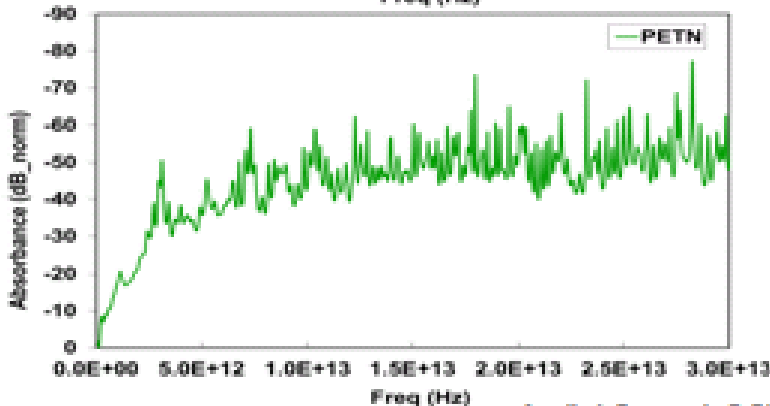
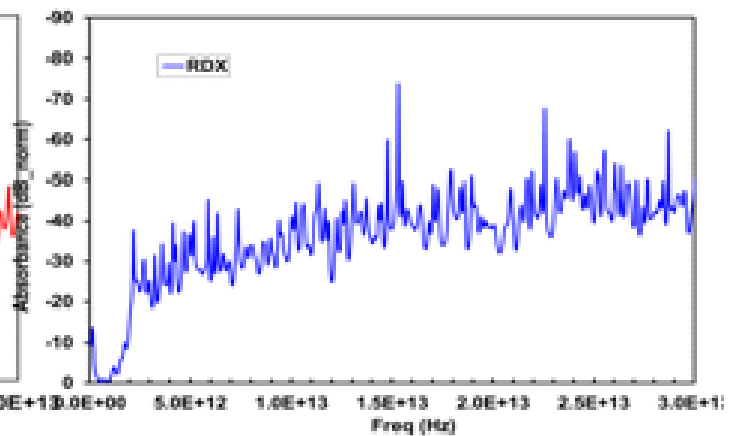
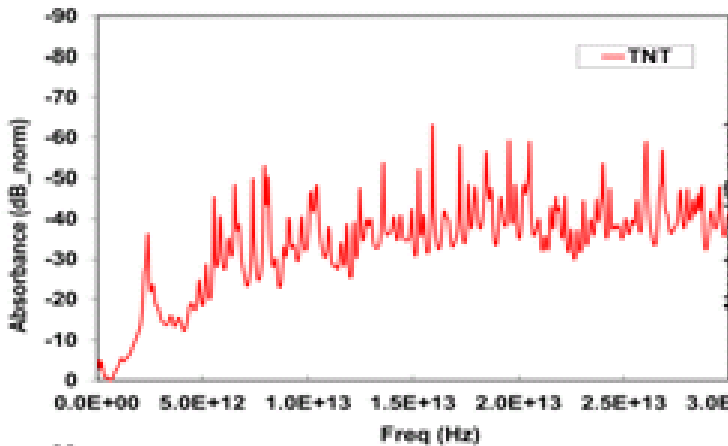


- Temporal signal (interferogram) of known explosive samples on glass slide (see insert): (a) TNT, (b) PETN, and (c) RDX
- Time-domain signals distinctly different

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THz Fourier Transform Spectra



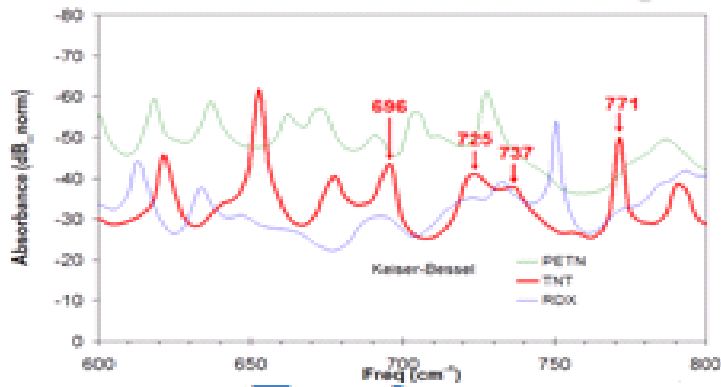
- Fourier transform absorbance spectrum of the three explosives over 0.1 THz to 30 THz: (a) TNT, (b) PETN, and (c) RDX

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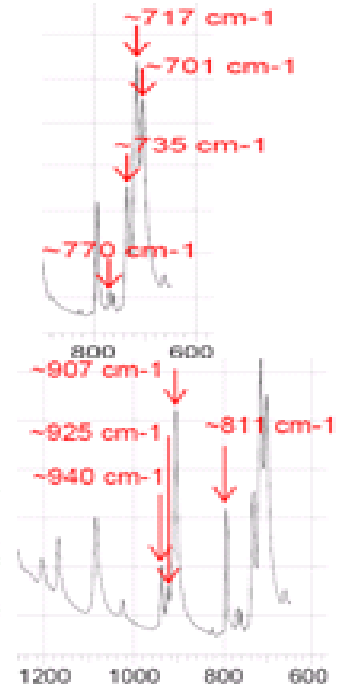
These samples are courtesy of Dr. Jimmie Oxley of URI, Kingston, RI, USA.

TNT THz & IR Spectra Comparison



696
725
737
771

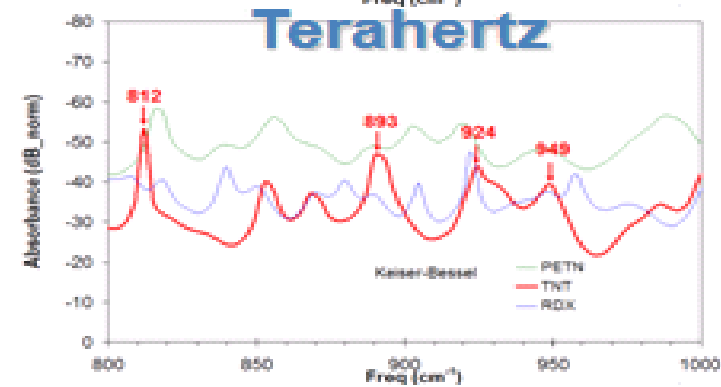
701
717
735
770



Infrared

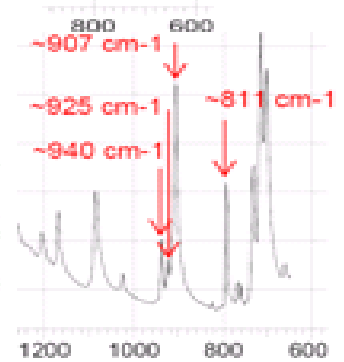
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812
893
924
949

811
907
925
940

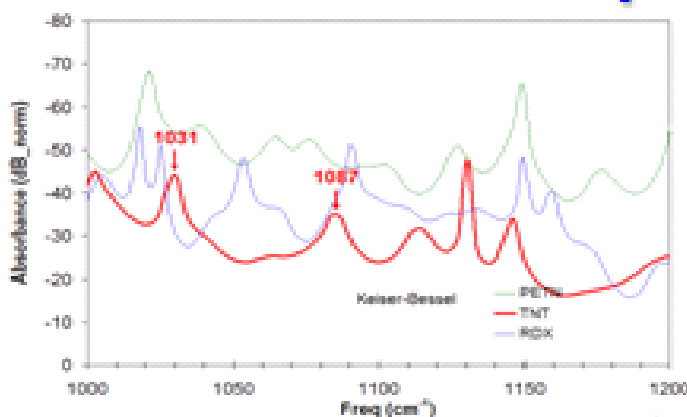


Infrared

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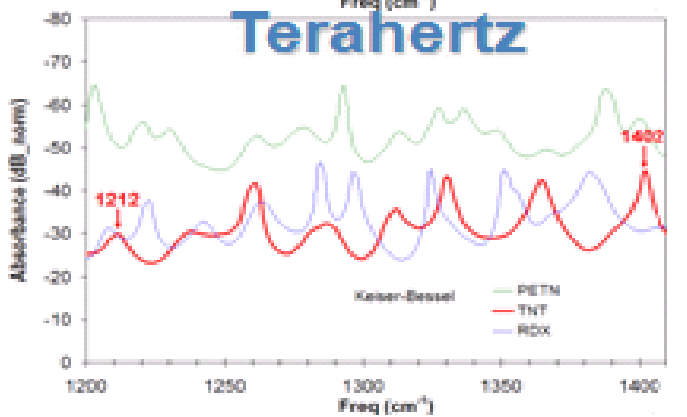
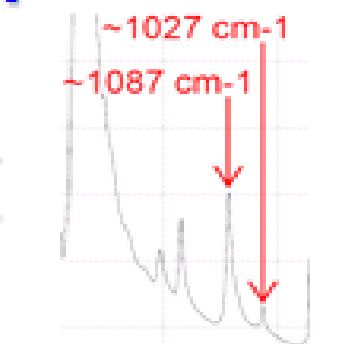
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TNT THz & IR Spectra Comparison



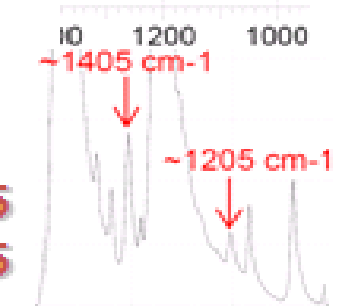
1031
1087

1027
1087



1212
1402

1205
1405



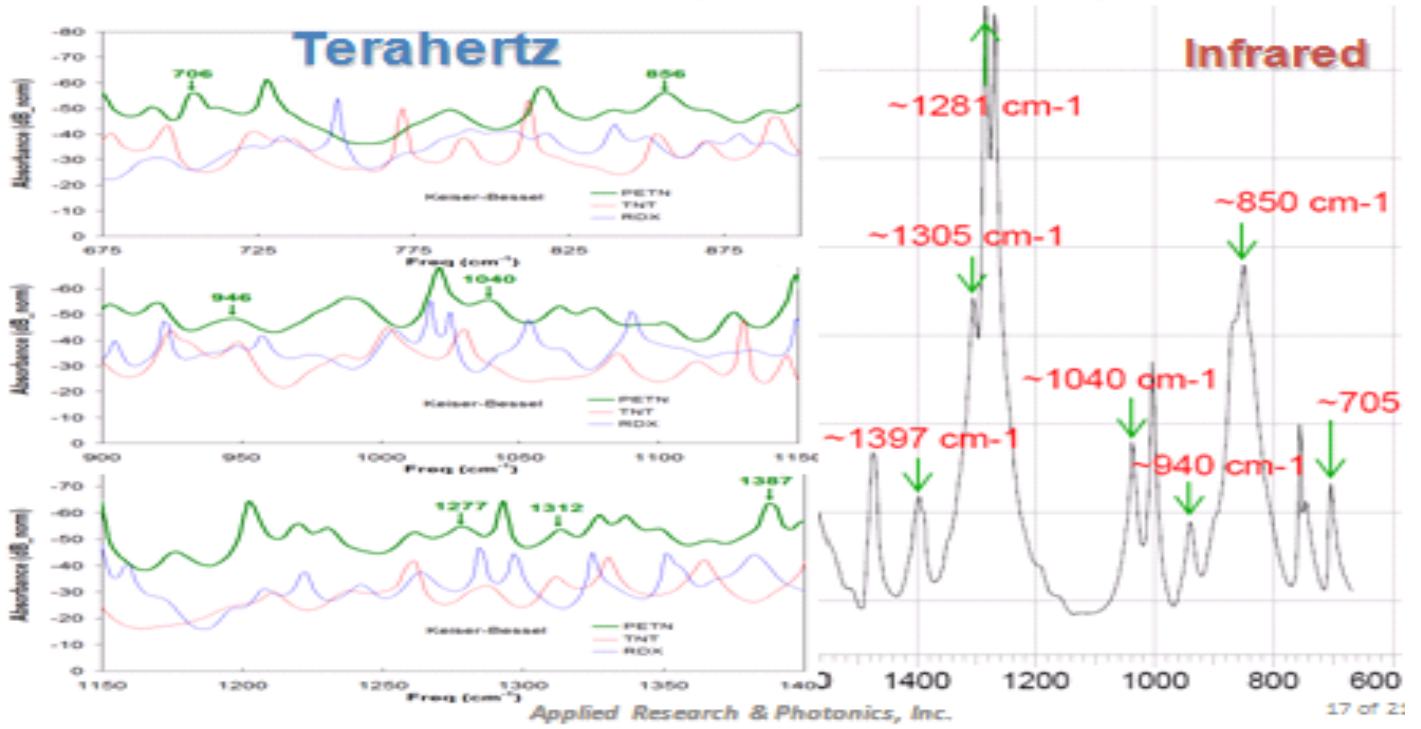
Infrared

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These samples are courtesy of Dr. Jimmie Oxley of URI, Kingston, RI, USA.

PETN THz & IR Spectra Comparison



These samples are courtesy of Dr. Jimmie Oxley of URI, Kingston, RI, USA.