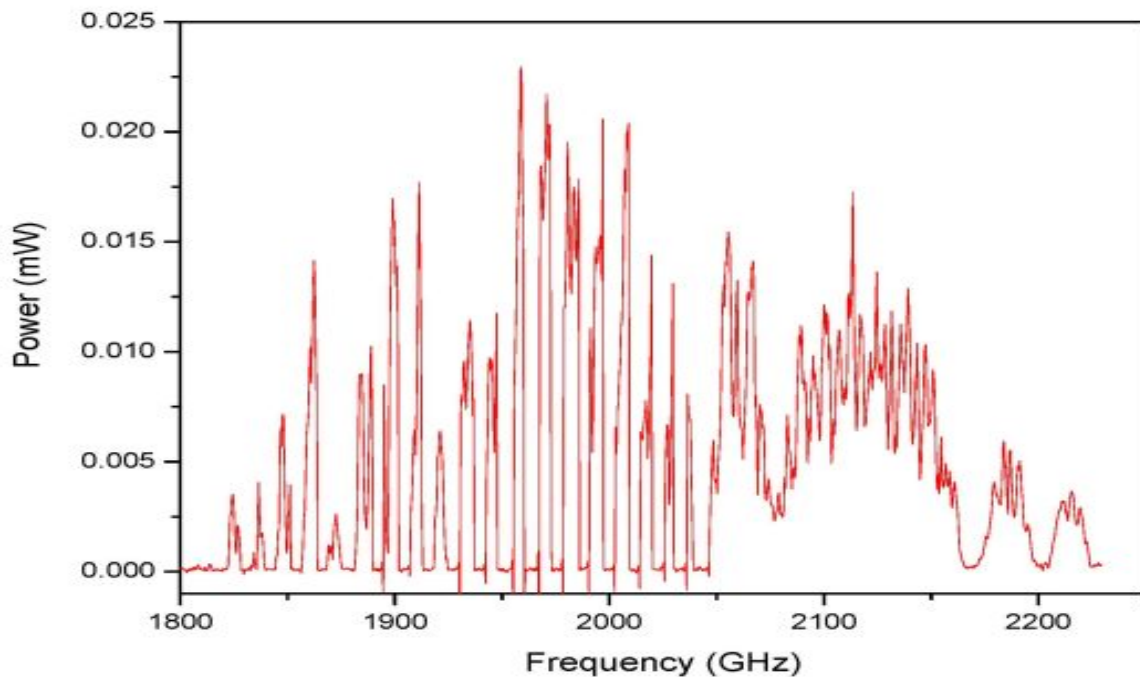




Backward Wave Oscillators (BWOs) have been used for THz spectroscopy and imaging across 0.03-1.5 THz range for decades. Recent progress in solid-state multiplier technology enabled efficient frequency doubling and tripling of BWO output to extend their reach beyond 1.5 THz. One of the latest examples of this approach is combining QS1-710 (OV-80) BWO operating across 550-720 GHz with a frequency tripler produced THz output across 1.8-2.22 THz range. Detailed report on progress in performance of BWOs combined with solid-state multipliers will be presented at Photonics West conference in San Francisco on January 24th:

<http://spie.org//app/program/index.cfm?fuseaction=conferencedetail&conference=7601>



This BWO and tripler combination is now available as a products QS1-710-T <http://www.mtinstruments.com/downloads/QS1-370-T%20Datasheet.pdf>. While output power reaches only 0.02 mW, it is actually sufficient to get 3 orders of magnitude in signal to noise ratio using amplified Golay Cell as a detector

<http://www.mtinstruments.com/downloads/Golay%20Cell%20Datasheet%20Revised.pdf> .

Please refer to our website for more details.

About Microtech Instruments, Inc.

Microtech Instruments is a leading manufacturer of THz components and systems, including THz spectrometers, generators and detectors. Committed to innovation, Microtech collaborates with leading research organizations worldwide.

For more information, visit [www.mtinstruments.com](http://www.mtinstruments.com) or contact Renee Isley at [sales@mtinstruments.com](mailto:sales@mtinstruments.com).

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