

HIGH FREQUENCY 20MHZ
ULTRASOUND WAVES

STRATUM CORNEUM

EPIDERMIS

0.89MM ECHOLUCENT
REACTION BAND

DERMIS

FATTY SUBCUTANEOUS
TISSUE

LASER PHOTOTHERMAL
PIGMENT VAPORIZATION

PHOTOACOUSTIC
FRAGMENTATION
SHOCK WAVES

PARTICLES CLEARED BY
IMMUNE PHAGOCYTES

PHOTOACOUSTIC
PIGMENT ABSORPTION

Laser and imaging modalities target precise depth, utilizing photoacoustic fragmentation to break down particles for immune clearance.

THE PHYSICS OF FRAGMENTATION