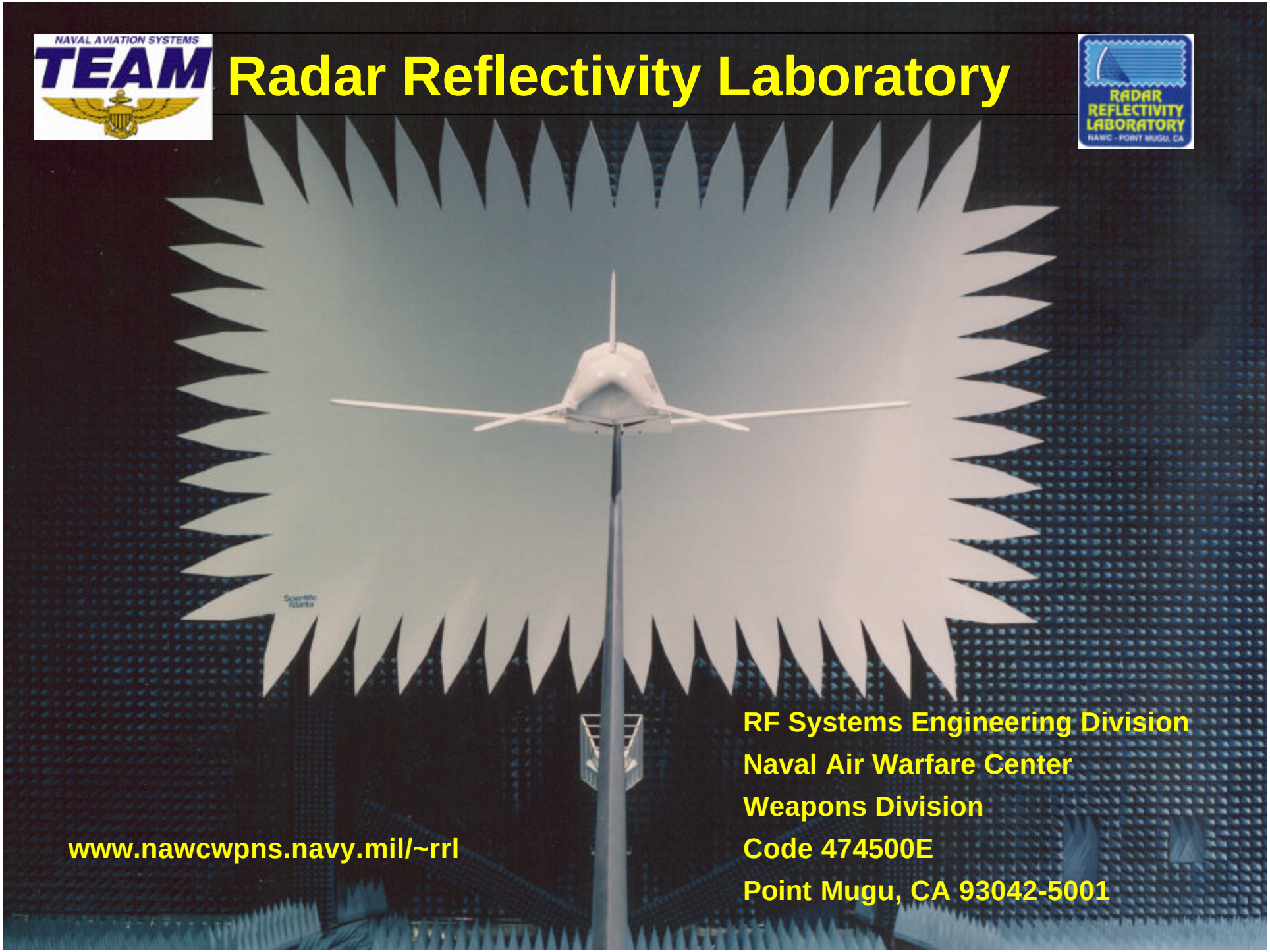
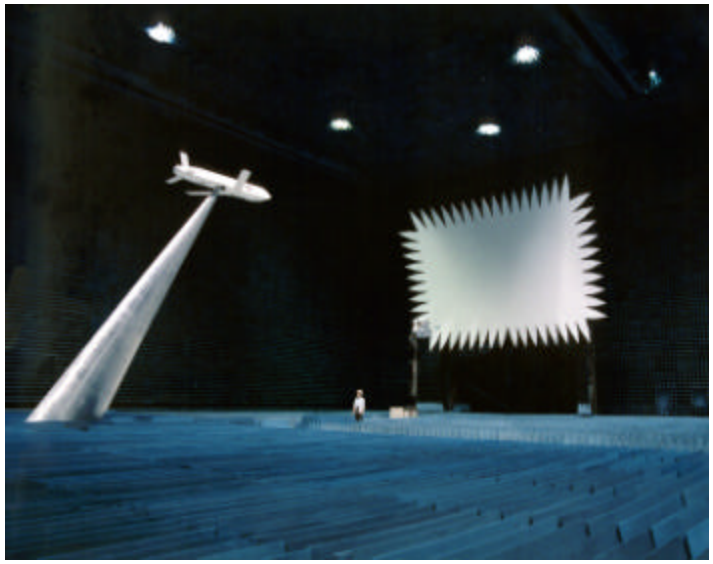
Radar Reflectivity Laboratory



RF Systems Engineering Division
Naval Air Warfare Center
Weapons Division
Code 474500E
Point Mugu, CA 93042-5001

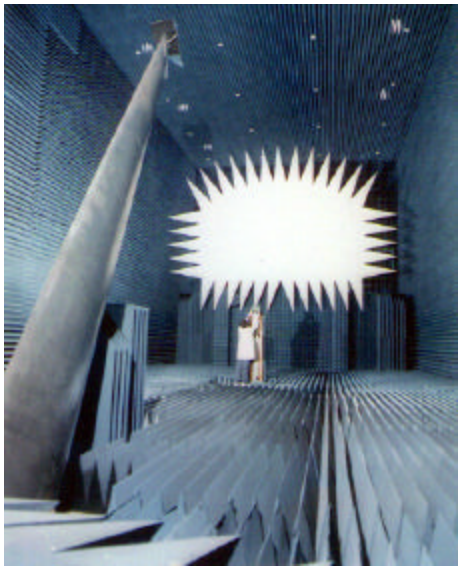
www.nawcwpns.navy.mil/~rrl

PRIMARY ANECHOIC CHAMBERS



Bistatic Anechoic Chamber

- Monostatic and Complete Range of Bistatic Angles 0–180° Horiz, 0–90° Vert.
- Chamber Size: 150’W x 150’L x 60’H
- Far-Field Quiet Zone: 30’W x 20’H
- Frequency Range: 100 MHz–100 GHz



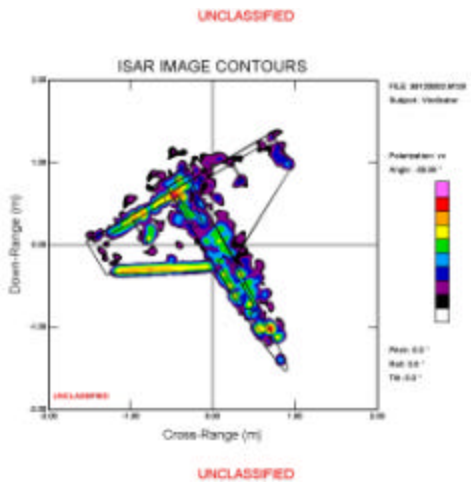
Large Anechoic Chamber

- Monostatic & Shallow Angle Bistatic
- Chamber Size: 40’W x 100’L x 40’H
- Far-Field Quiet Zone: 16’W x 11’H
- Frequency Range: 800 MHz–100 GHz

PRODUCTS AND SERVICES

Products

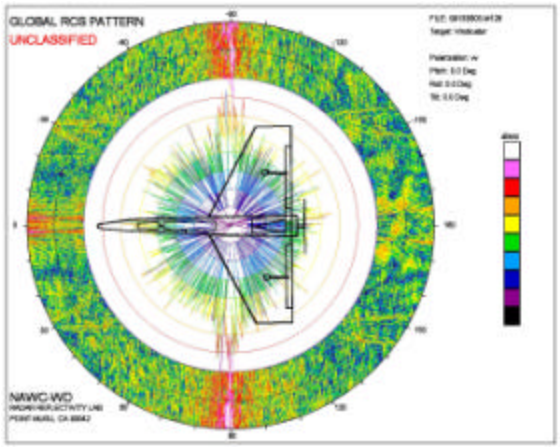
- RCS
- ISAR RCS Imagery
- Glint
- Jet-Engine Modulation
- Antenna Patterns



ISAR RCS Image

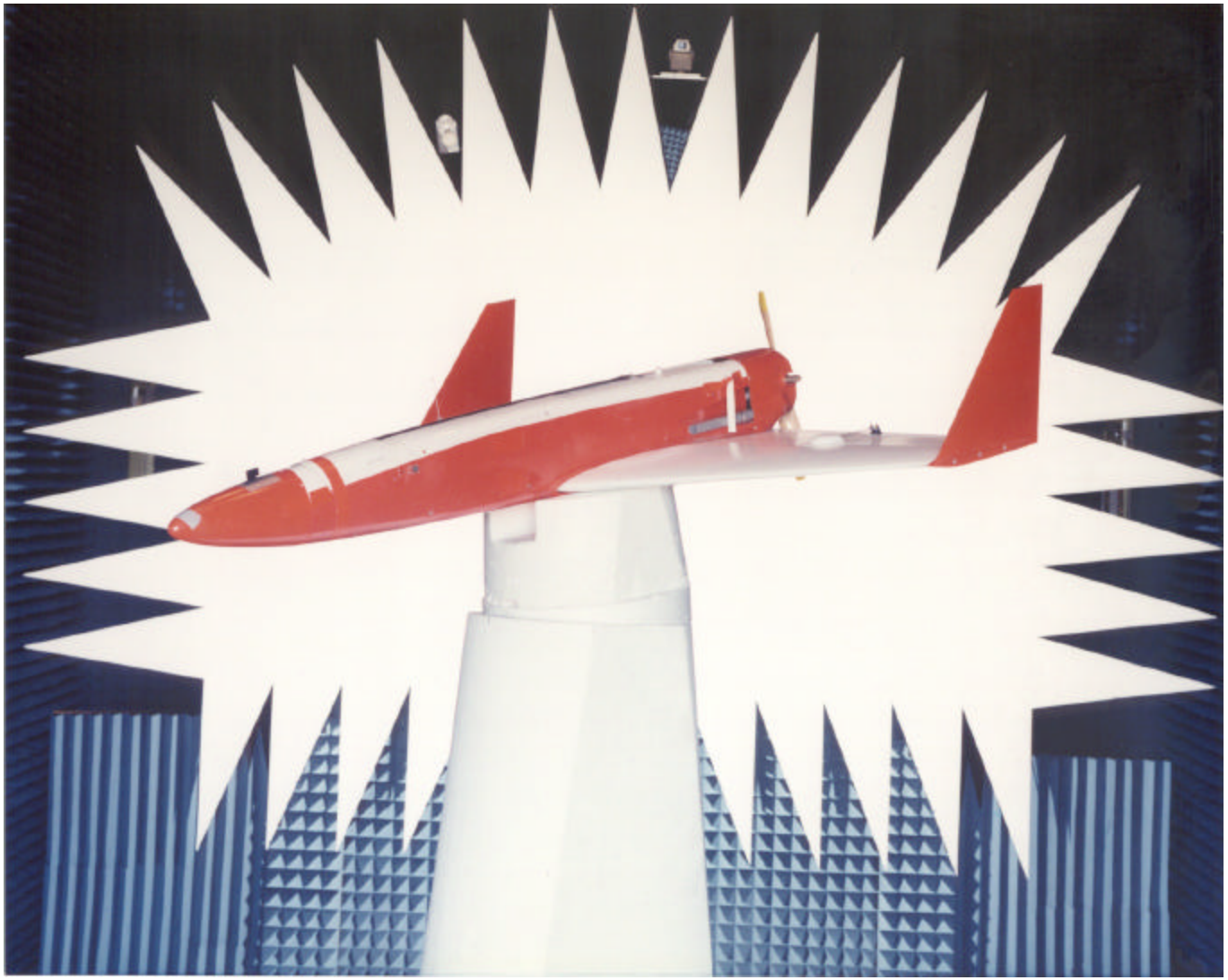
Services

- RCS Diagnostics
- RCS T&E Engineering Consultation
- Developing of Advanced RCS Processing and Display Techniques

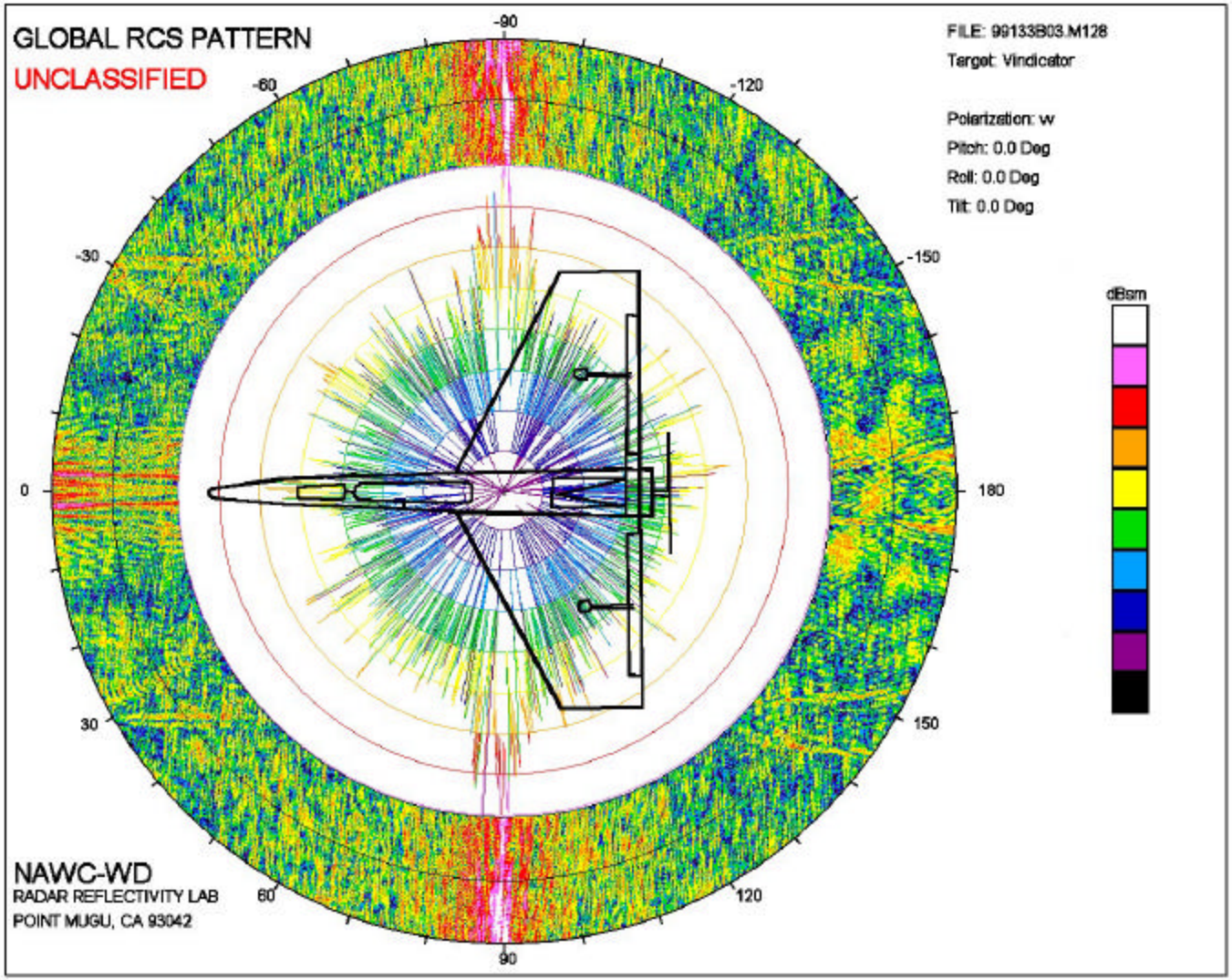


Global RCS

Large Anechoic Chamber - Vindicator

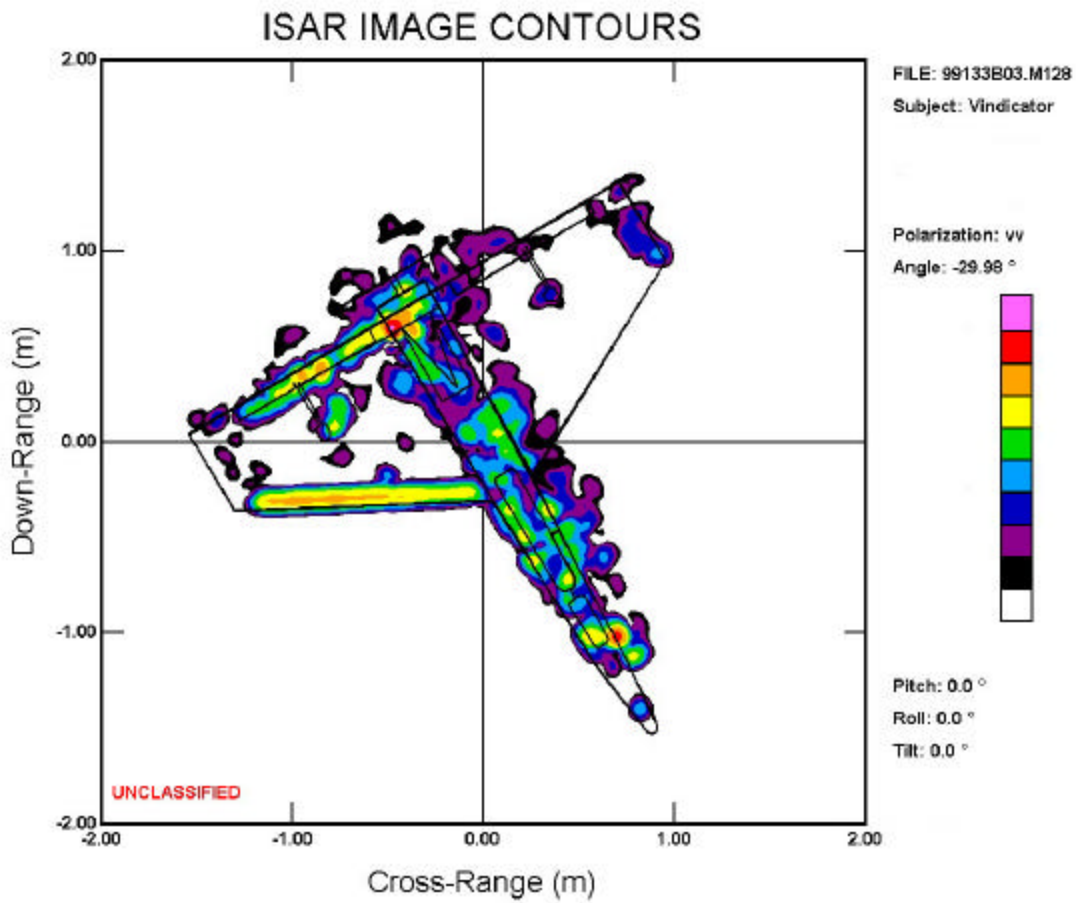


Global RCS Plot



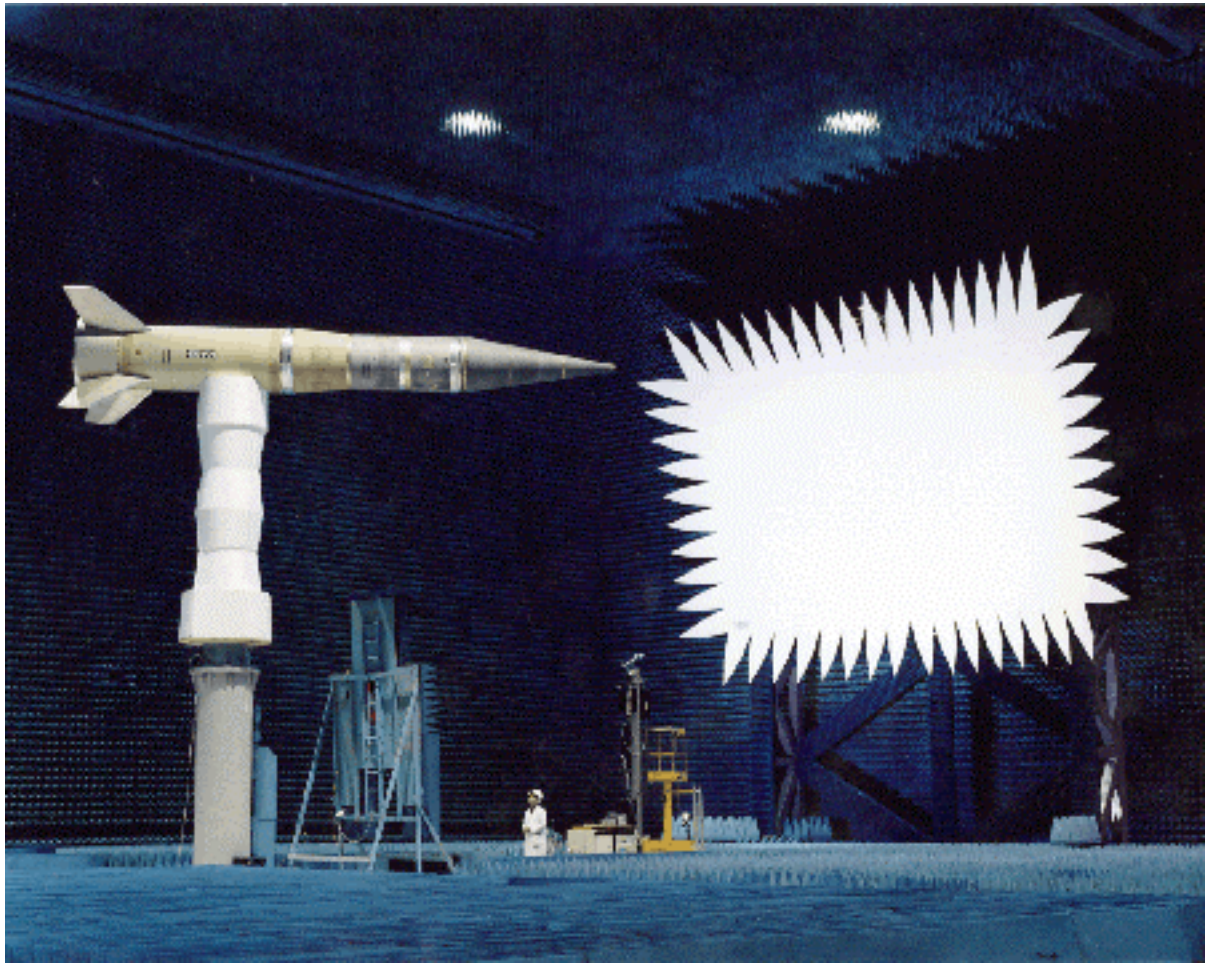
ISAR RCS Image

UNCLASSIFIED



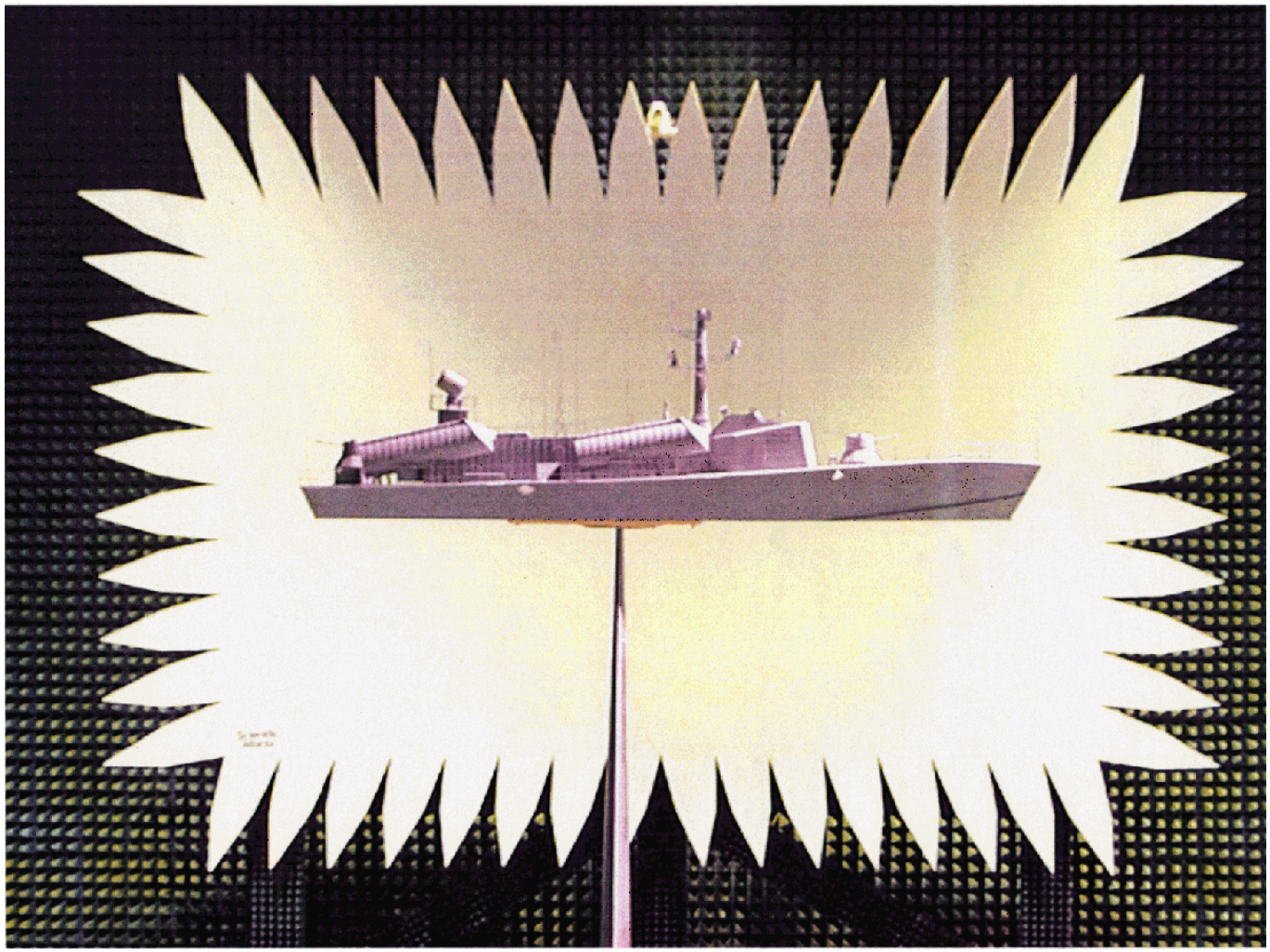
UNCLASSIFIED

ARIES Ballistic Missile Target

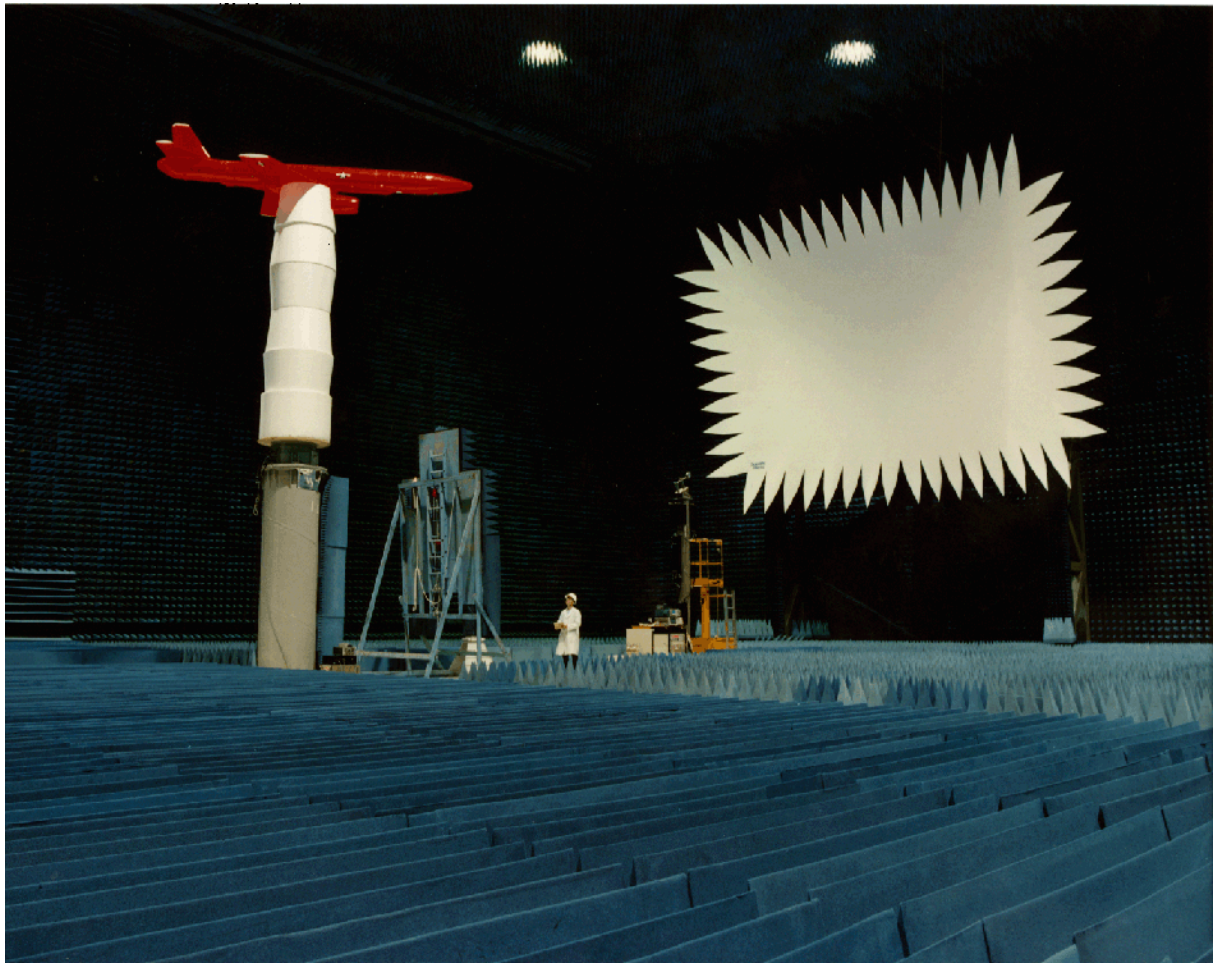


AMBAR RIB Target Boat

OSA Russian Patrol Boat



U. S. Army MQM-107 Drone Target

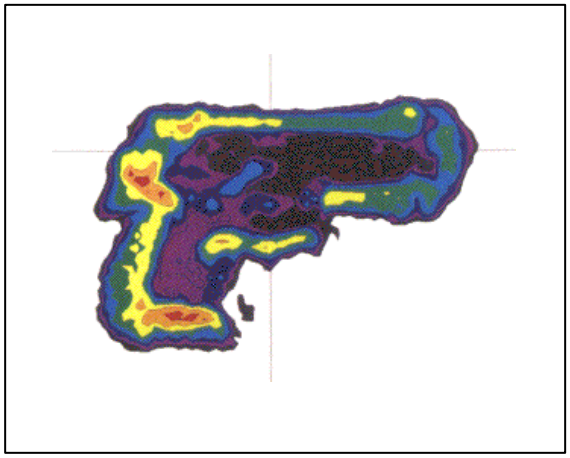


Jet-Engine Modulation Measurements Of Harrier

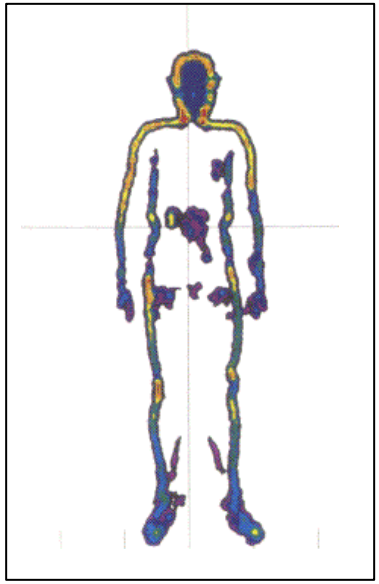
EXAMPLEOF NON-DOD CUSTOMER WORK FOR LAW ENFORCEMENT

RCS Testing to Determine Applicability of Radar for Concealed Weapons Detection

9-mm Beretta Hand Gun Measured in the Bistatic Anechoic Chamber



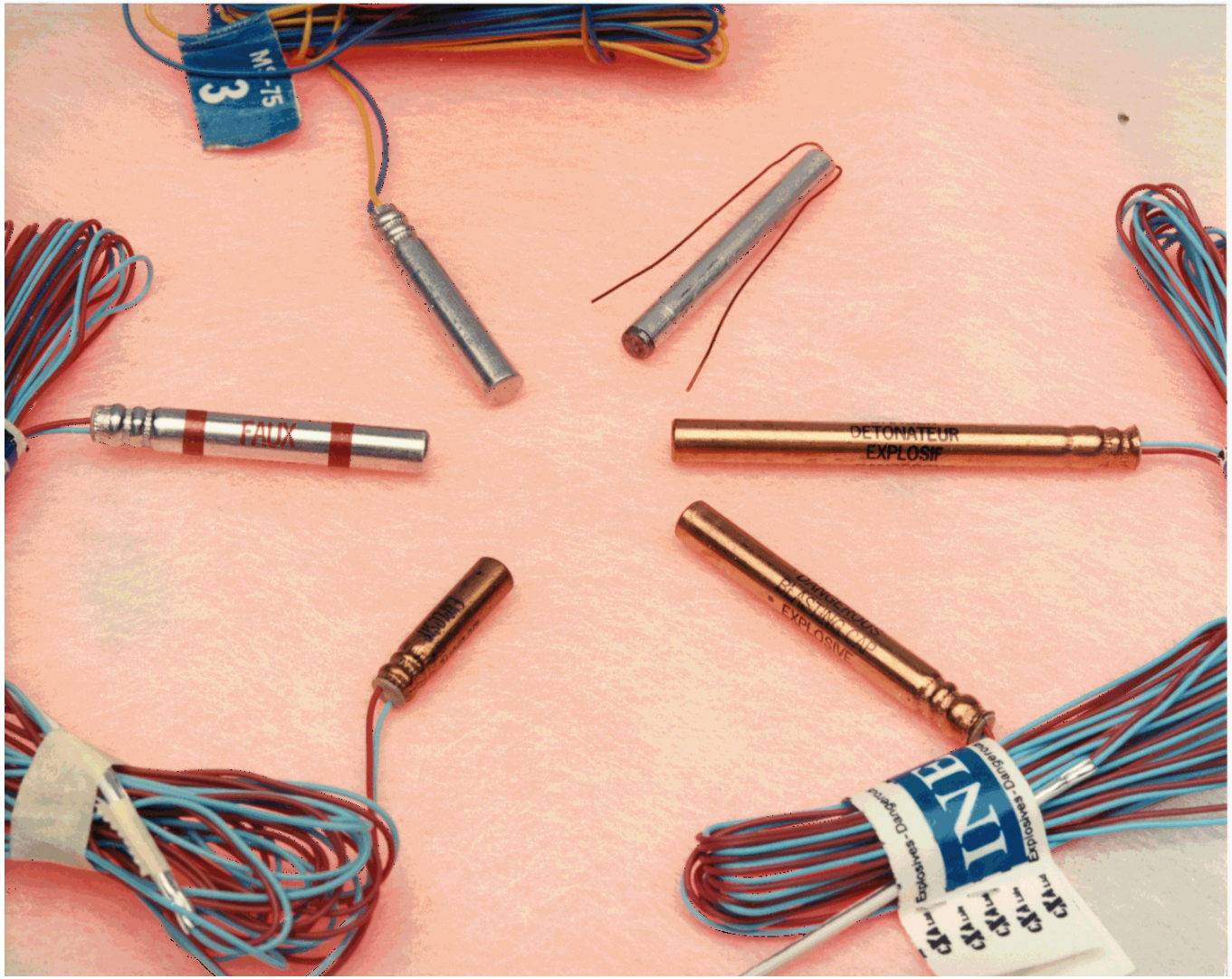
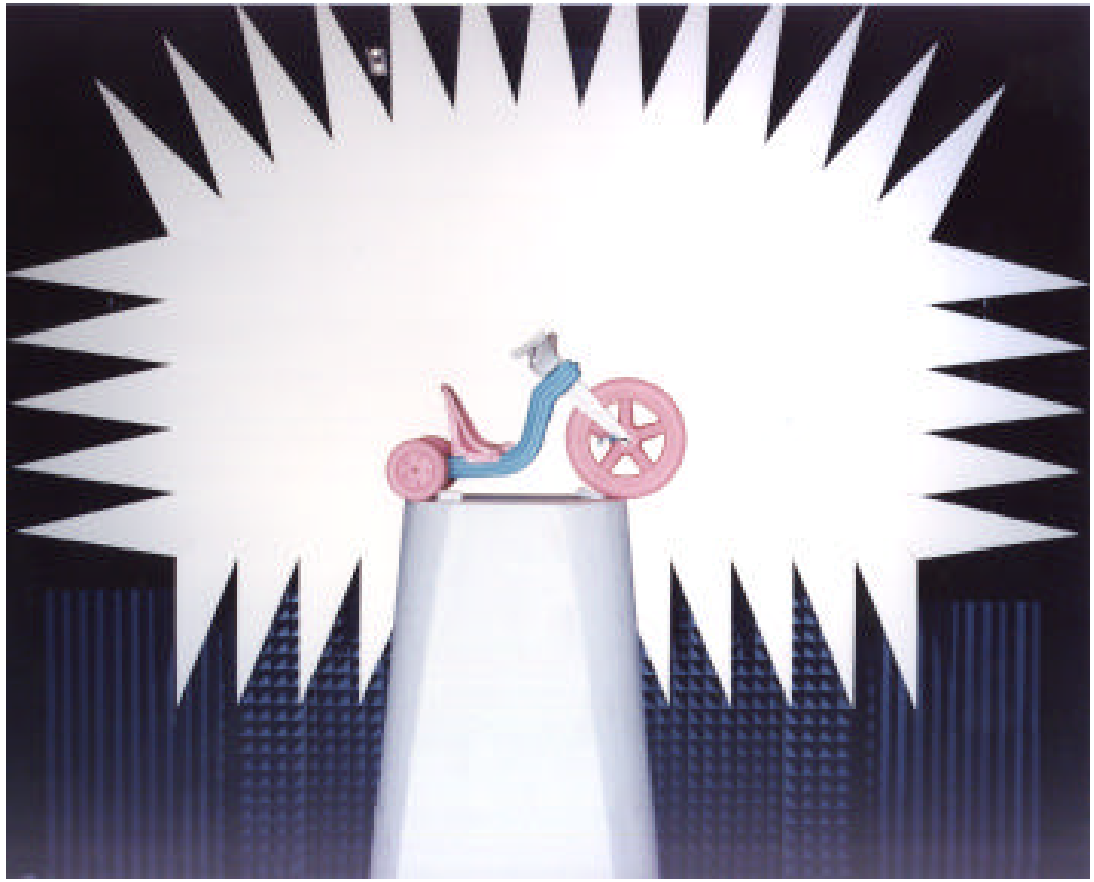
ISAR RCS Image of Beretta



ISAR RCS Image Of Man Carrying Beretta

Hand Guns Measured for Concealed Weapons Detection

Blasting Caps Measured for Concealed Weapons Detection



Big Wheel Measured for Back-up Auto Warning Radar