

## General Atomics Watchkeeper FCC Application

### Exhibit 1: Waveform Characteristics

The parameters for the UWB waveform used by General Atomics are defined in the table below. Note the system transmits

| Parameter                                             | Value                        | Units   |
|-------------------------------------------------------|------------------------------|---------|
| Pulse repetition frequency (PRF)                      | 12                           | MHz     |
| Number of sub-bands in a pulse                        | 5                            |         |
| Transmission time in each subpulse                    | ~ 4                          | ns      |
| Sub-band center frequency                             | 3.48, 4.02, 4.56, 6.12, 6.96 | GHz.    |
| 10 dB bandwidth per subband                           | 550 $\pm$ 50                 | MHz     |
| Peak power in 50 MHz at transmitter output (Max hold) | < 33                         | dBm     |
| Peak EIRP in 50 MHz                                   | < 70                         | dBm     |
| Transmitter output mean PSD/MHz                       | < 23                         | dBm/MHz |
| Mean EIRP                                             | <60                          | dBm/MHz |

The figure shows the mean power plot before applying the final amplification

