

## CdSe Core Nanocrystals

**Description:** Cadmium Selenide (CdSe) nanocrystals are single crystal semiconductor nanoparticles, also known as quantum dots. The uniqueness of these quantum dots come from their size dependent optical/electronic properties and flexible processability. The size of these quantum dots ranges from 2 to 7 nanometers, yet their optical properties span nearly the entire visible spectrum (blue-red).

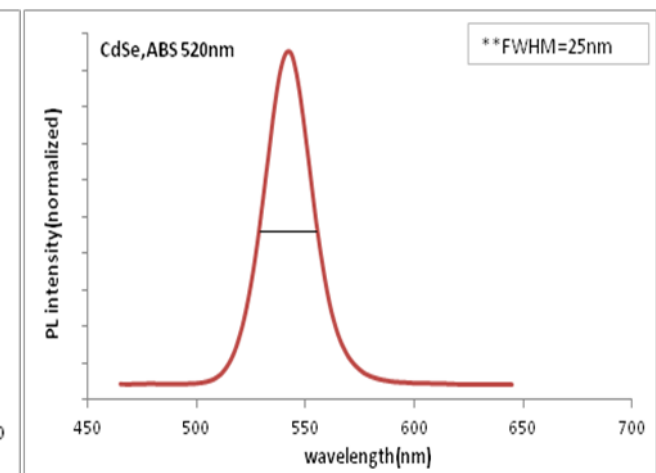
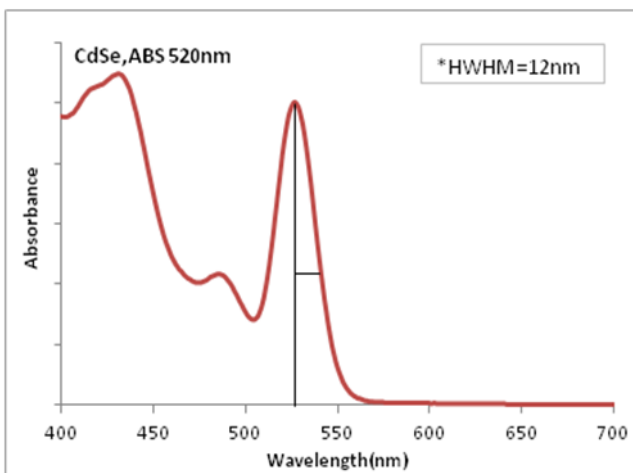
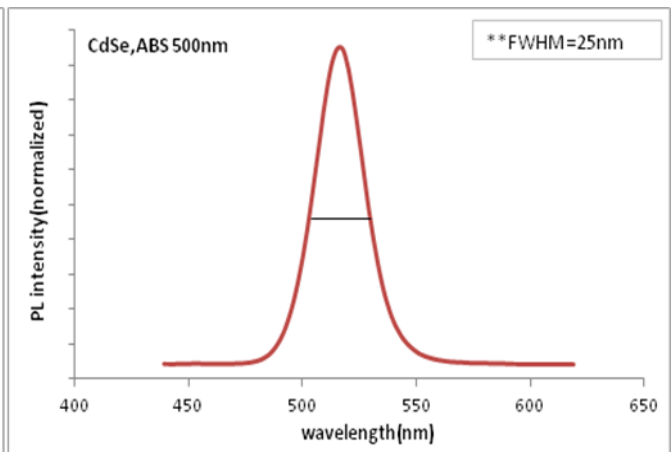
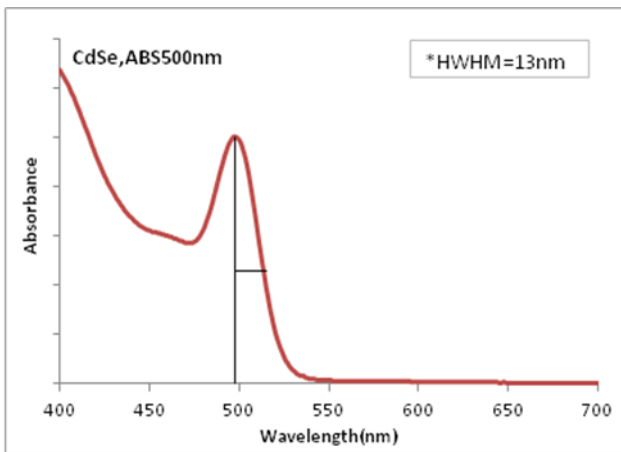
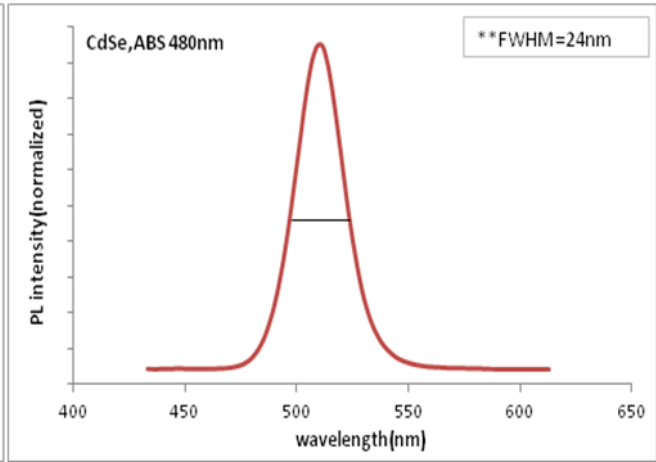
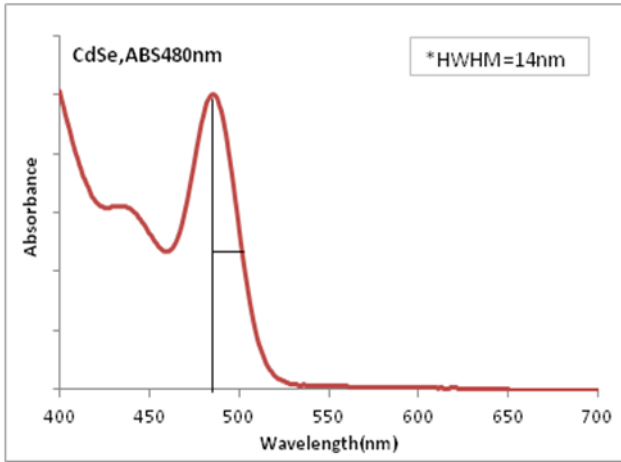
Typical CdSe quantum dots are inorganic semiconductors with an outer surface coating of organic ligands. These ligands allow for the stability, solubility, and processability of these nanocrystals in solution. This allows the quantum dots to be excited over a broad range while emitting at a finite position, yielding true color emission. This emission potential of the quantum dots is dependent upon the quality and size distribution of the nanocrystals in solution.

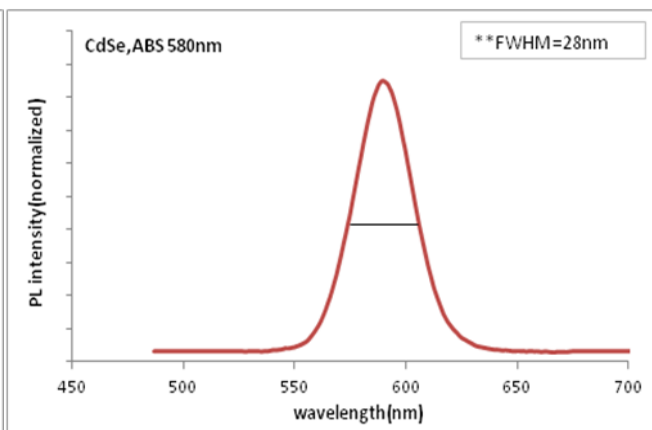
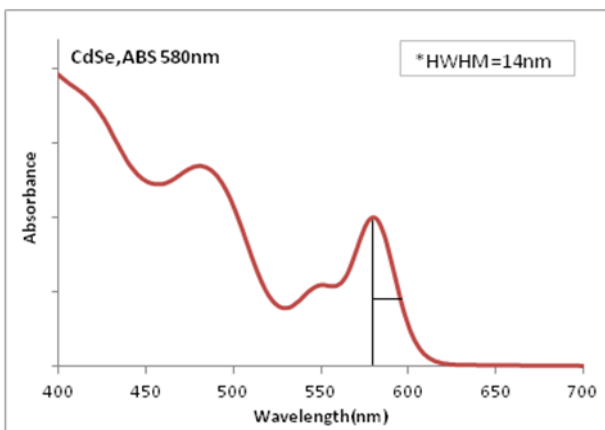
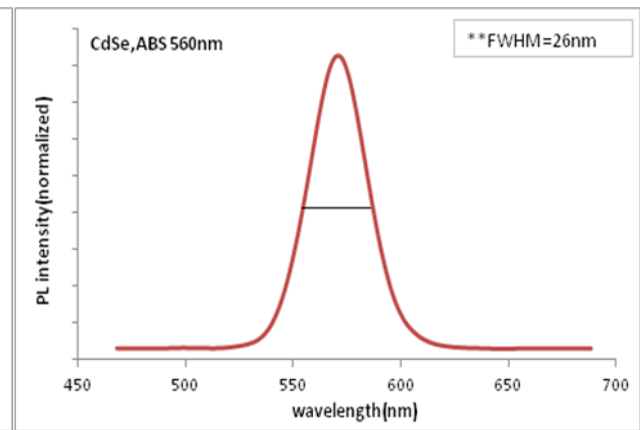
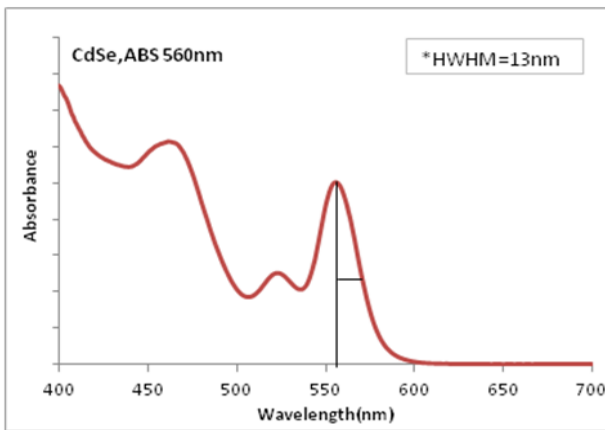
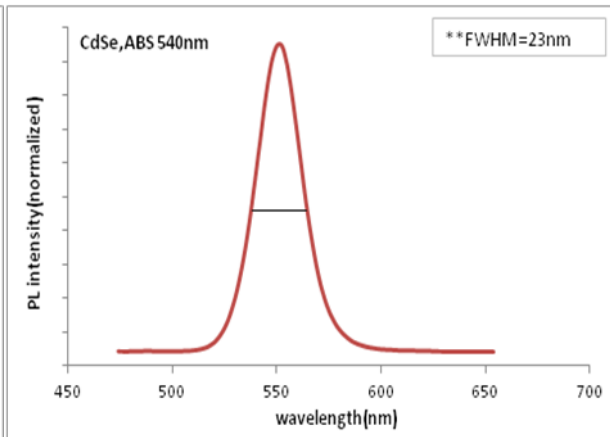
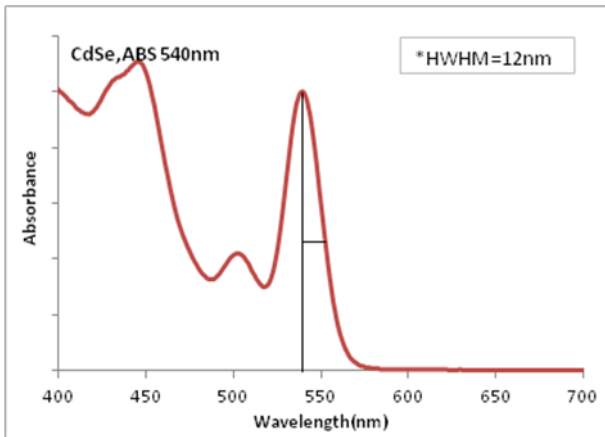
<b>Product name:</b>	CdSe core nanocrystals
<b>Catalog number:</b>	C11-C21
<b>Solvent:</b>	Non-Polar Solvent, typically toluene
<b>Surface ligand:</b>	Oleylamine
<b>Storage:</b>	4-25 <sup>0</sup> C; Do not freeze
<b>Shelf life:</b>	12 months

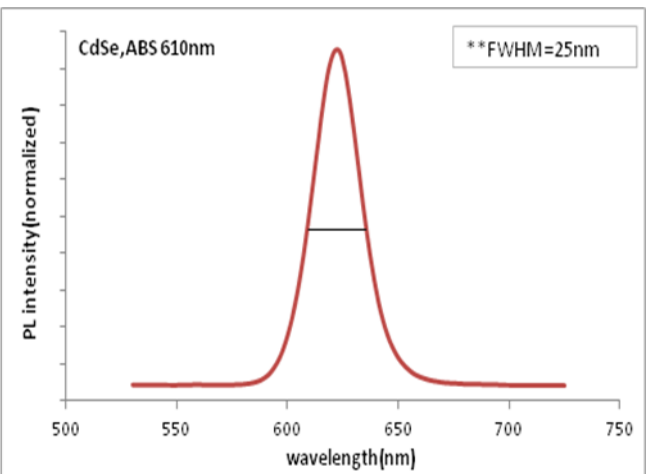
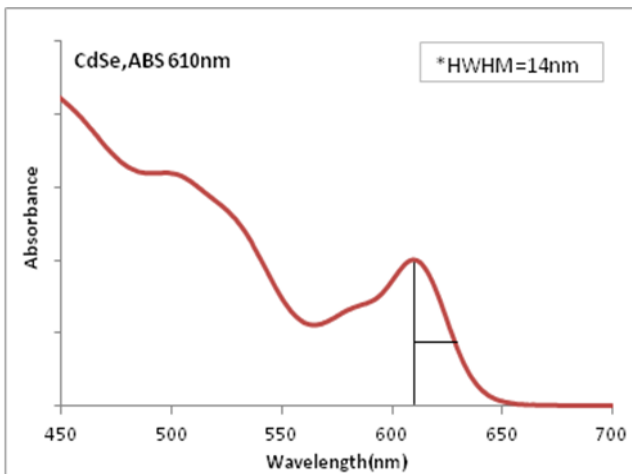
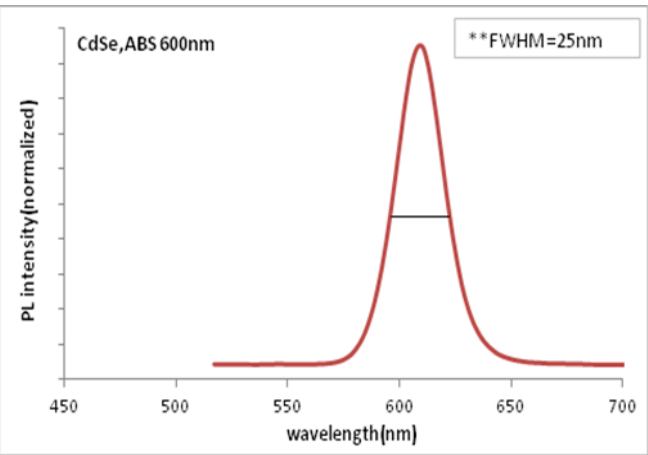
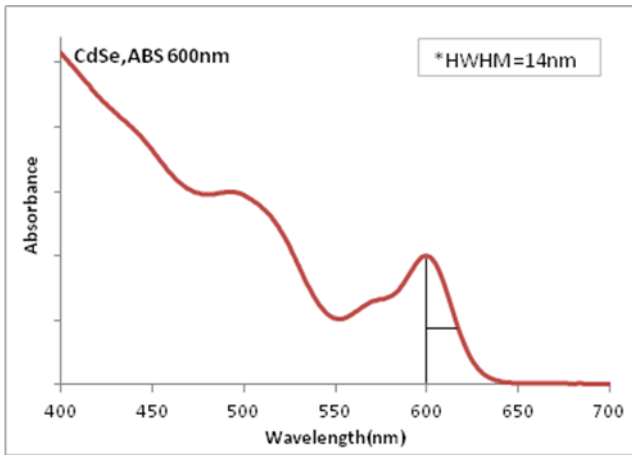
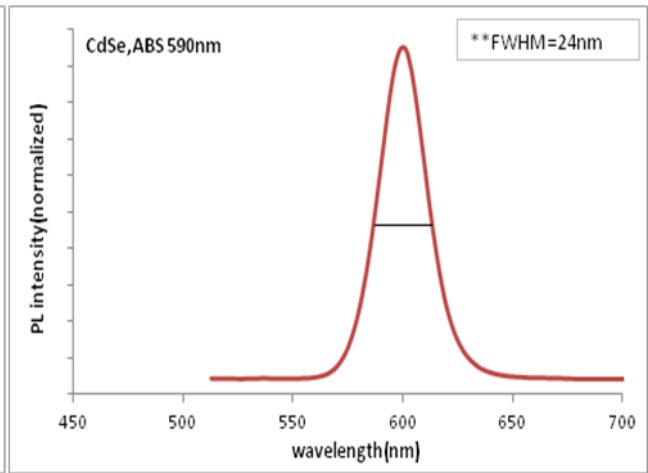
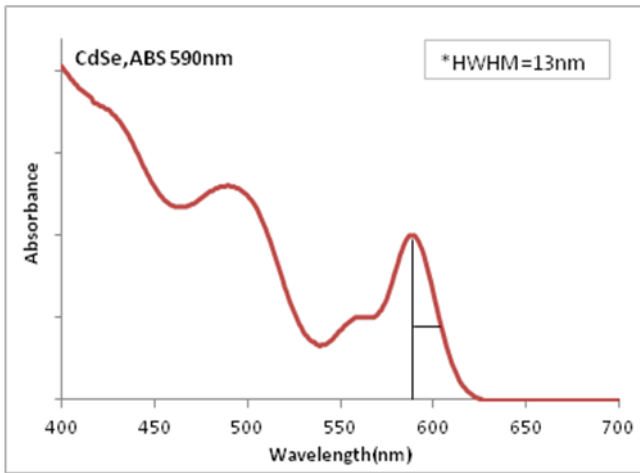
Product ID	Absorption Peak(nm)	Absorption Peak Variation(nm)	HWHM* (nm)
C11	480	±10	<20
C12	500	±10	<20
C13	520	±10	<20
C14	540	±10	<20
C15	560	±10	<20
C16	580	±10	<20
C17	590	±10	<20
C18	600	±10	<20
C19	610	±10	<20
C20	620	±10	<20
C21	640	±10	<20

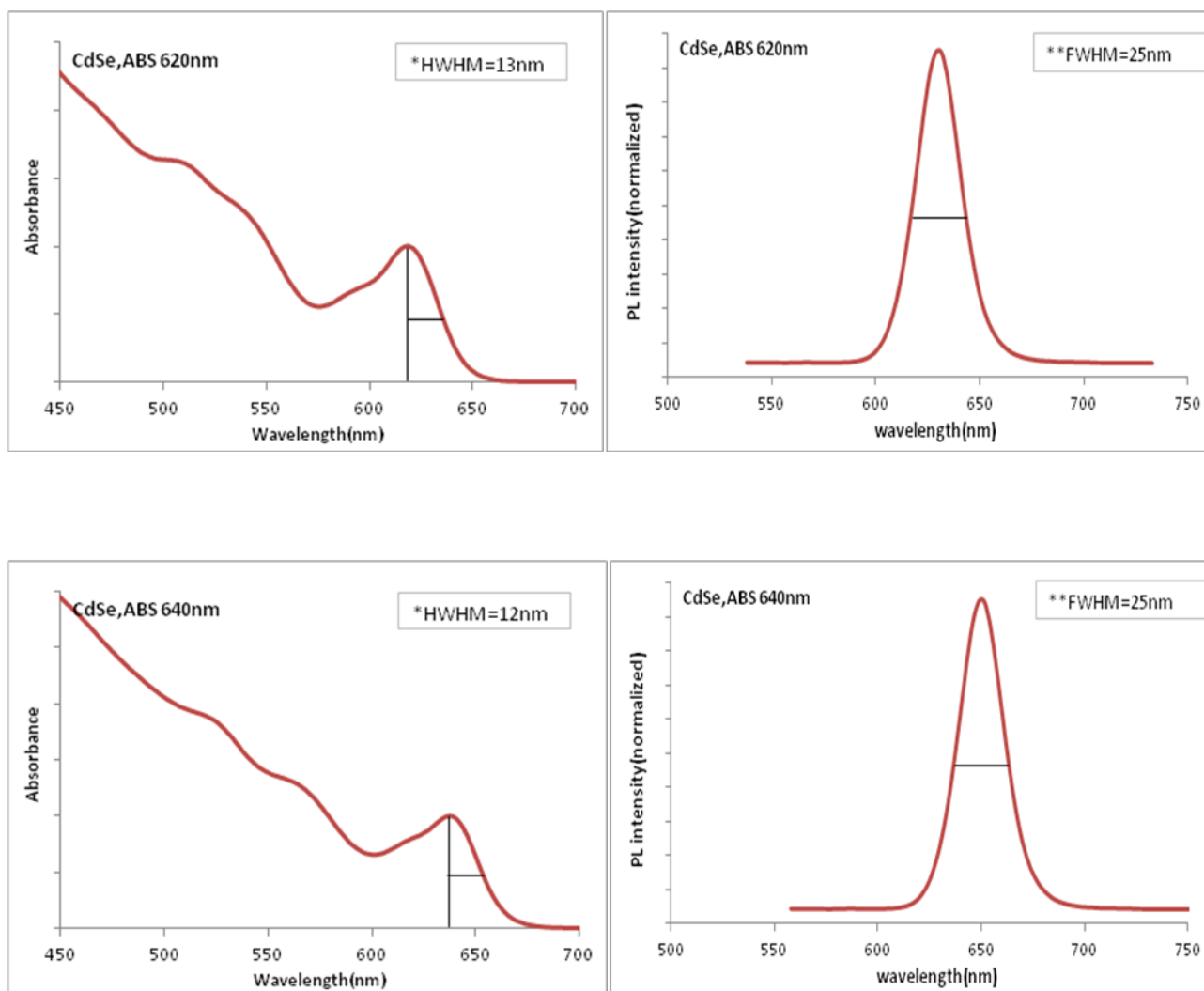
\*HWHM means Half Width of Half Maximum

**Spectra:**









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