

## Technical Specification of Alloy Quantum Dot Powder

**Description:** QPP is a group of highly purified CdSSe/ZnS core/shell alloy quantum dots in solid form. The surface ligand is oleic acid. They can be dispersed in most organic solvents such as toluene, chloroform, hexane, etc. With very low number of free organic ligand and very low organic impurity, these quantum dots are specifically designed as emitters for optoelectronic applications such as LEDs. Please find the information about using these quantum dots for the fabrication of QDLEDs in our related publications.

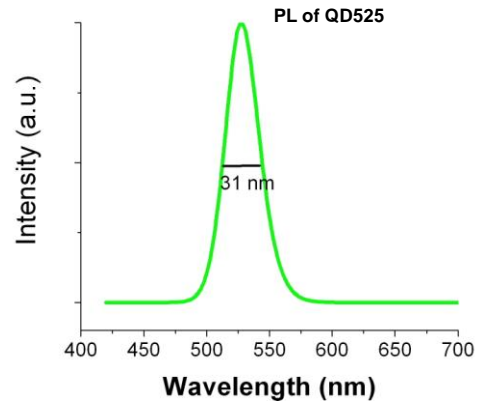
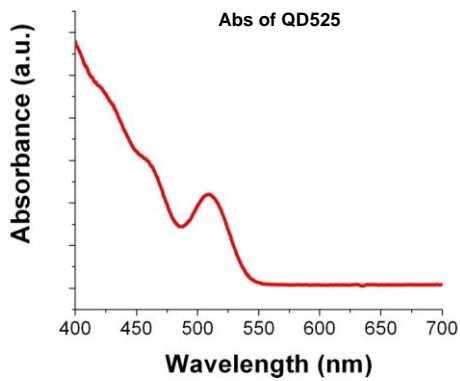
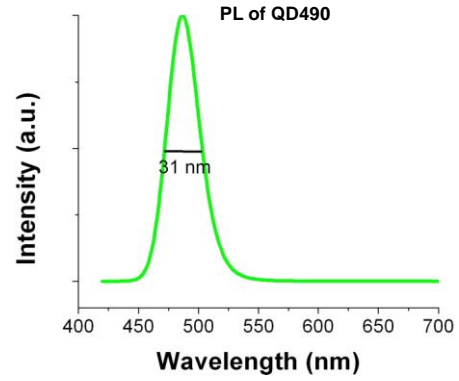
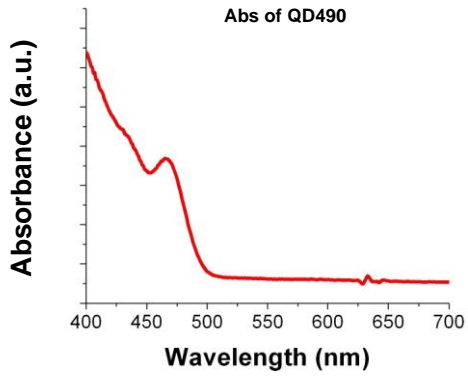
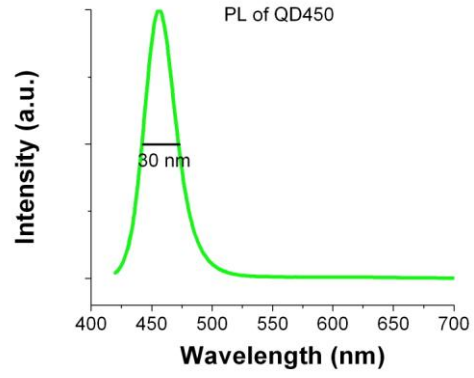
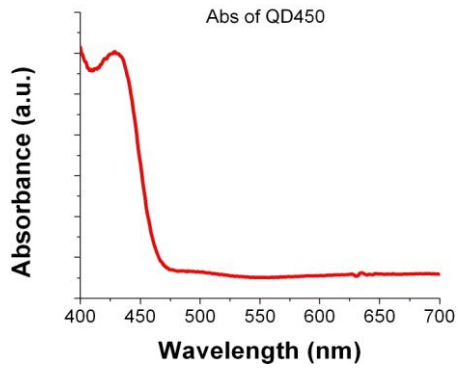
**Catalog number:** QPP  
**Product name:** CdSeS/ZnS core/shell quantum dot powder.  
**Solvent:** Can be dispersed in toluene, chloroform, hexane, etc.  
**Storage:** 25°C; Do not freeze.  
**Shelf life:** 12 months

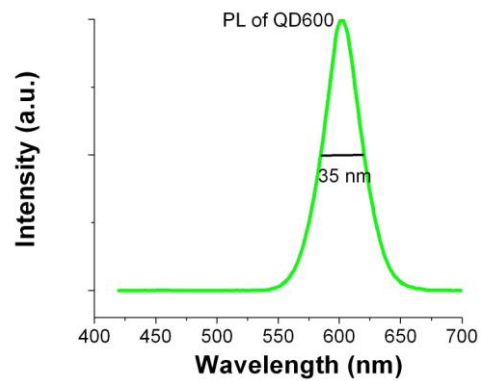
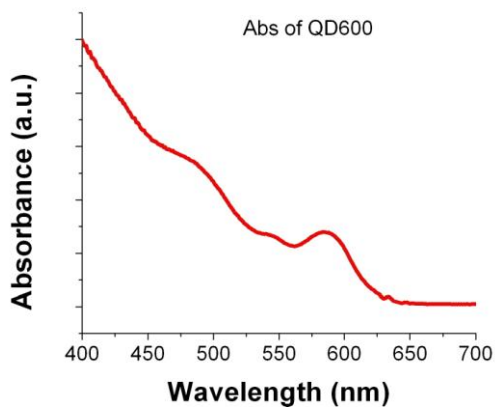
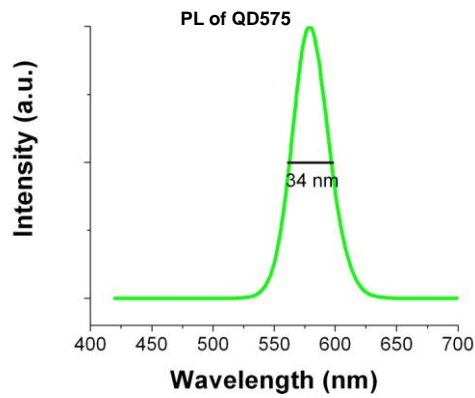
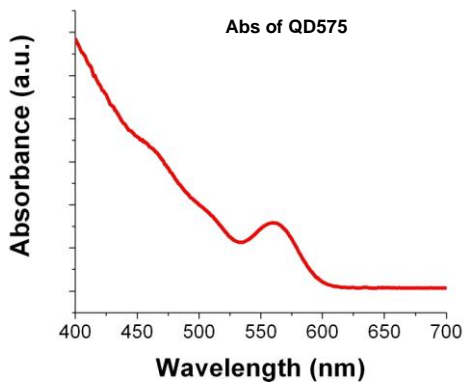
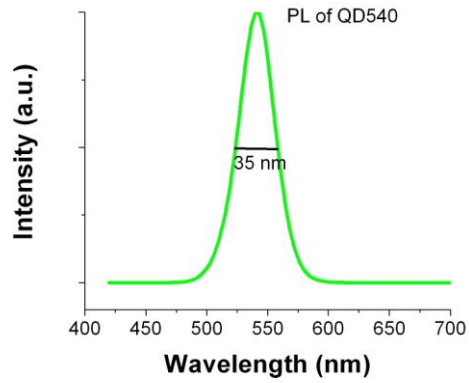
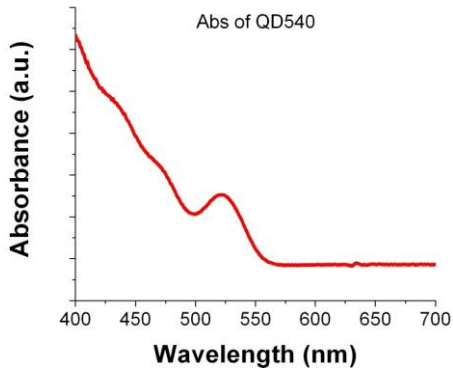
	QPP450	QPP490	QPP525	QPP540	QPP575	QPP600	QPP630	QPP645	QPP665
Emission (nm)	450	490	525	540	575	600	630	645	665
Peak Tolerance (nm)	10	10	10	10	10	10	10	10	10
FWHM (nm)*	<35	<35	<35	<35	<35	<35	<35	<35	<35
Emission Efficiency**	>50%	>50%	>50%	>50%	>50%	>50%	>50%	>50%	>50%
Surface Ligand	OA	OA	OA	OA	OA	OA	OA	OA	OA

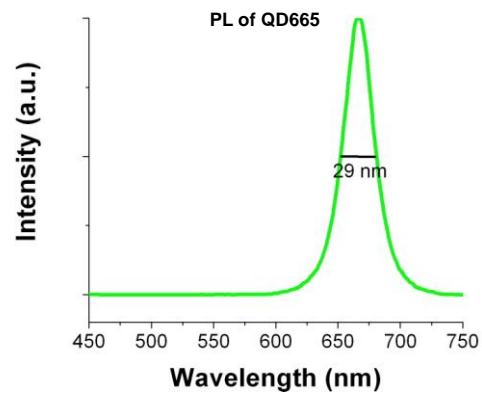
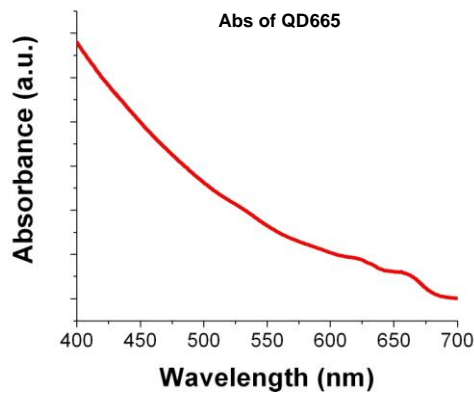
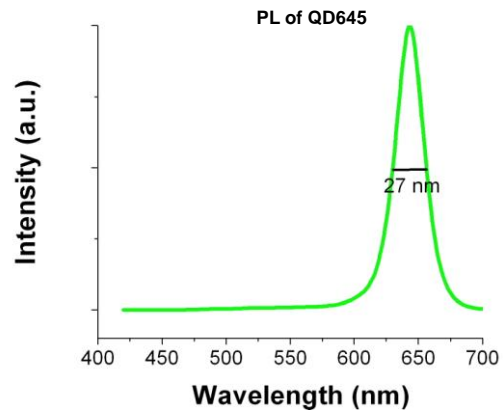
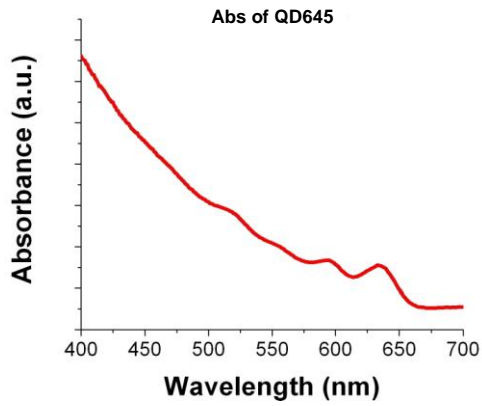
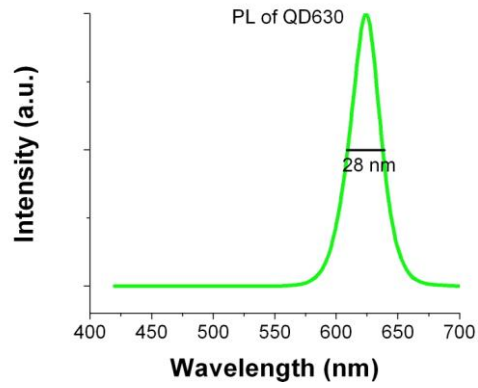
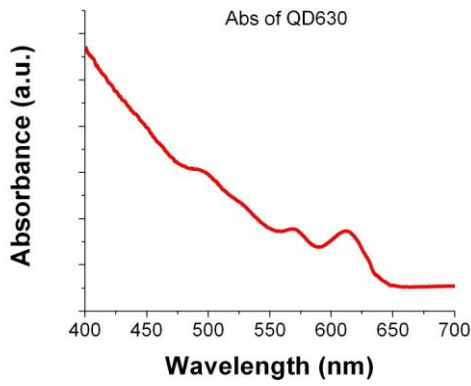
\*FWMH: Full Width of Half Maximum;

\*\*Emission efficiency was measured by integrating sphere.

Spectra:









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For R&D only. Not intended for food, drug, household, agricultural, or cosmetic use.

Ocean NanoTech, LLC shall not be held liable for any damage resulting from handling or contact with the above product.