

Technical Specification of Quantum Dot Powder

Description: QSP is a group of highly purified CdSe/ZnS quantum dots in solid form. Their surface ligand is octadecylamine. 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.

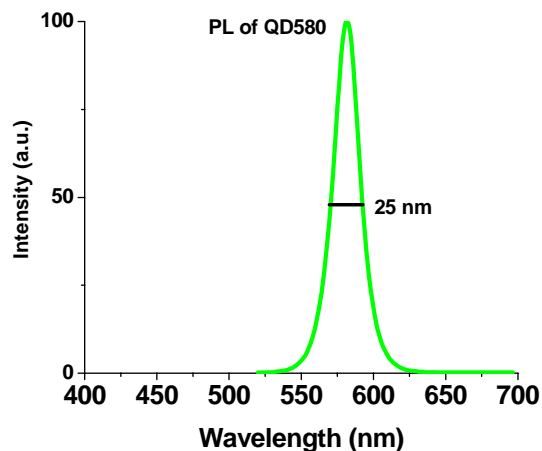
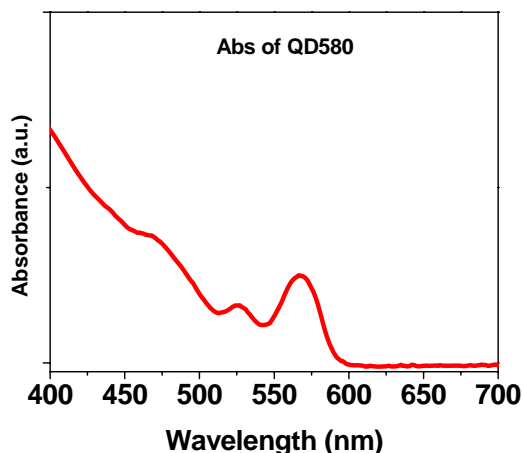
Catalog number: QSP
Product name: CdSe/ZnS core/shell quantum dot powder.
Solvent: No. Can be dispersed in toluene, chloroform, hexane, etc.
Storage: 4-25°C; Do not freeze.
Shelf life: 12 months

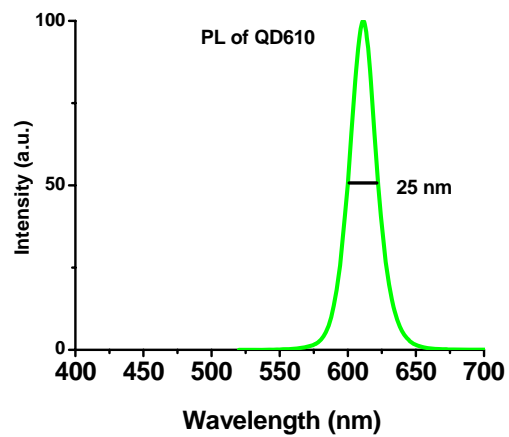
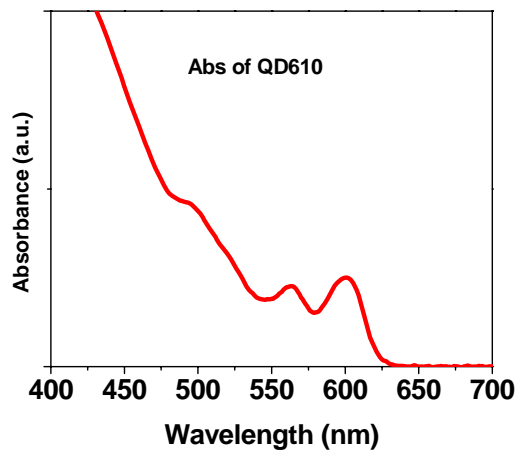
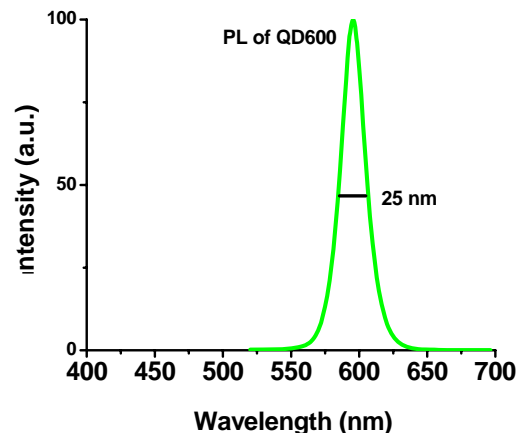
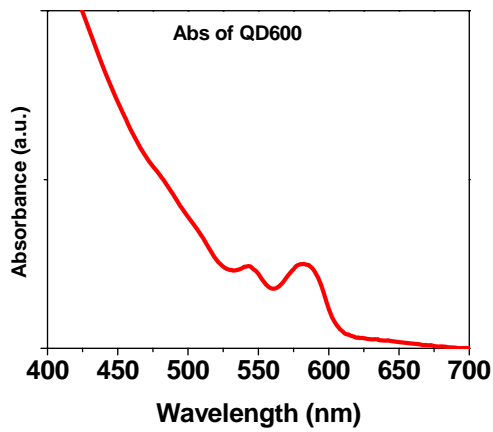
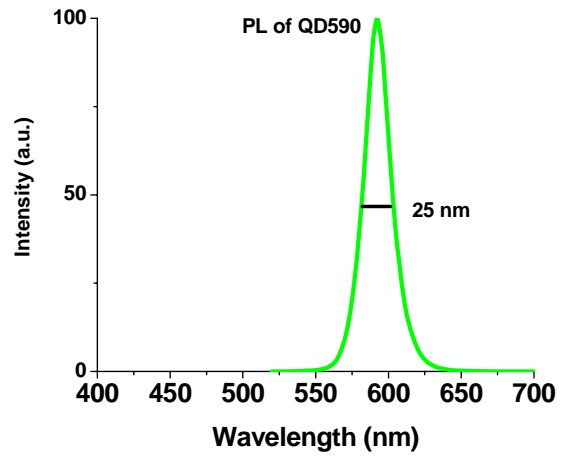
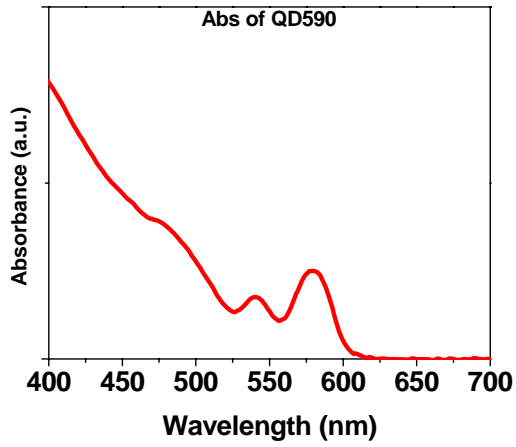
	QSP580	QSP590	QSP600	QSP610	QSP620	QSP630
Emission (nm)	580	590	600	610	620	630
Peak Tolerance (nm)	5	5	5	5	5	5
FWHM* (nm)	<25	<25	<25	<25	<25	<25
Emission Efficiency**	>50%	>50%	>50%	>50%	>50%	>50%
Surface Ligand	ODA	ODA	ODA	ODA	ODA	ODA

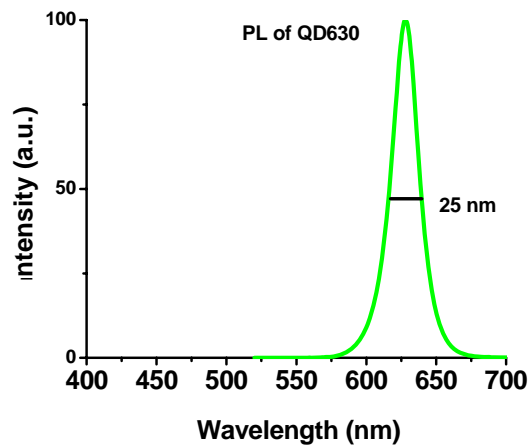
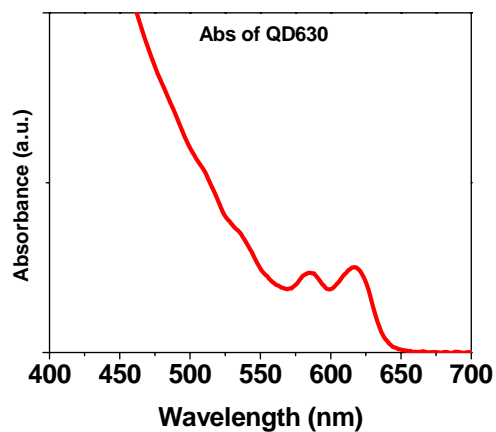
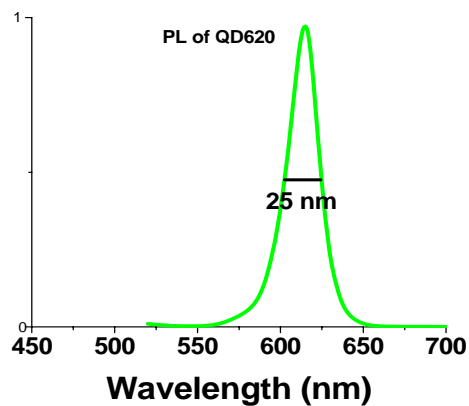
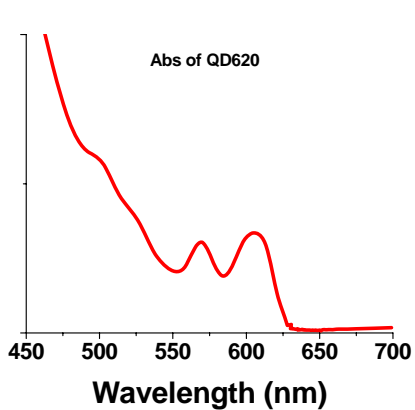
*FWHM: Full Width of Half Maximum

**Emission efficiency was measured by integrating sphere.

Spectra:







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.