

Technical Specification of Quantum Dots in Toluene

Description: QSO is a group of CdSe/ZnS quantum dots dispersed in toluene. Their surface ligand is octadecylamine. With emission quantum yield larger than 40%, these quantum dots can serve as emitters for optoelectronic applications. Please find the information about using these quantum dots for the fabrication of QDLEDs in our related publications.

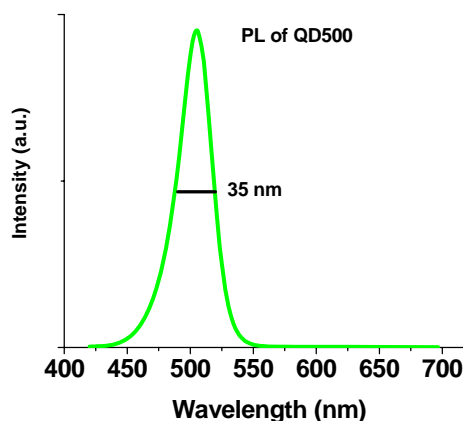
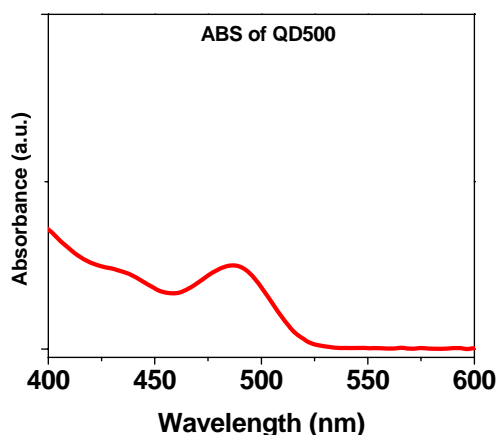
Catalog number:	QSO
Product name:	CdSe/ZnS core/shell quantum dots in toluene.
Solvent:	Toluene
Surface group:	Octadecylamine
Storage:	4-25°C; Do not freeze.
Shelf life:	12 months
Weight (QDs):	10 mg
Concentration:	5 mg/mL
Volume:	2 mL

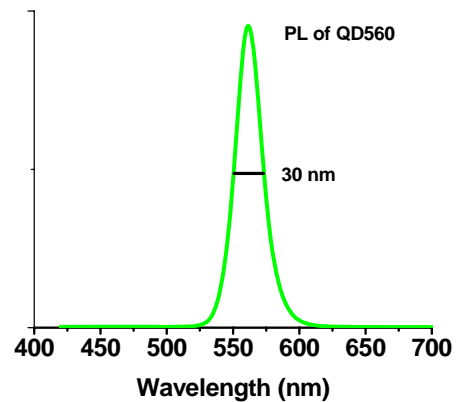
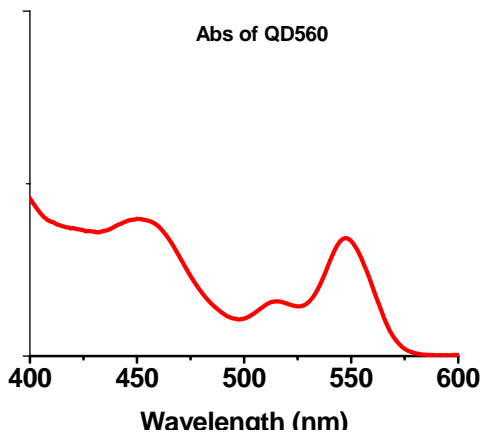
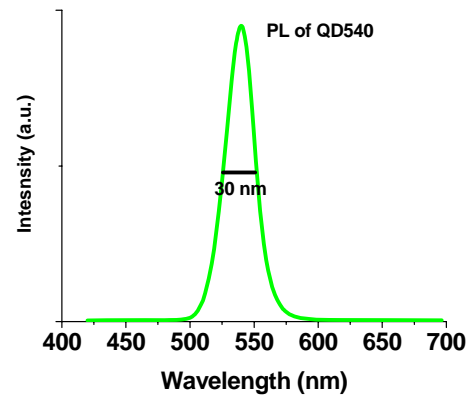
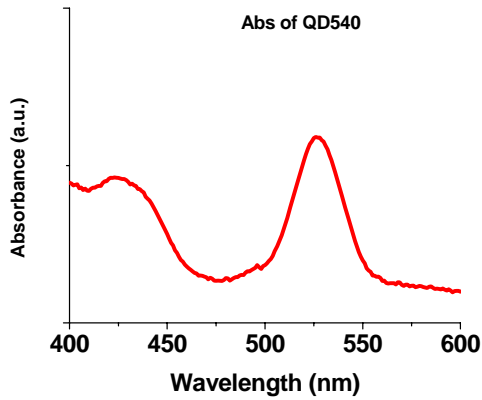
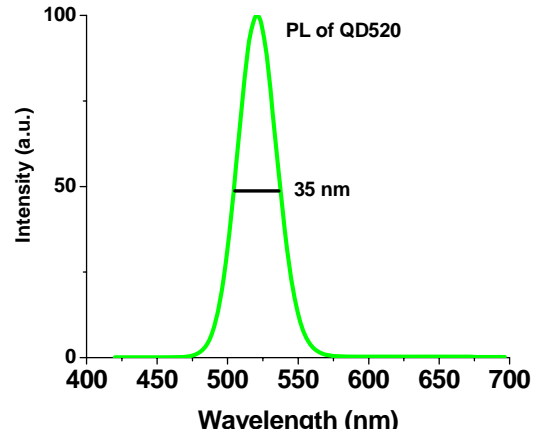
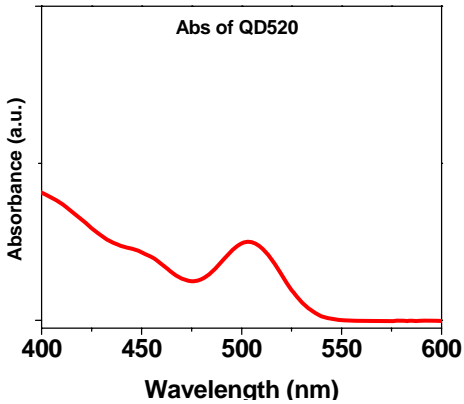
	QSO500	QSO520	QSO540	QSO560
Emission (nm)	500	520	540	560
Peak Tolerance (nm)	10	10	10	10
FWHM* (nm)	<35	<35	<30	<30
Emission Efficiency**	>50%	>50%	>50%	>50%
Surface Ligand	ODA	ODA	ODA	ODA

*FWHM: Full Width of Half Maximum

**Emission efficiency was measured by integrating sphere.

Spectra:





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