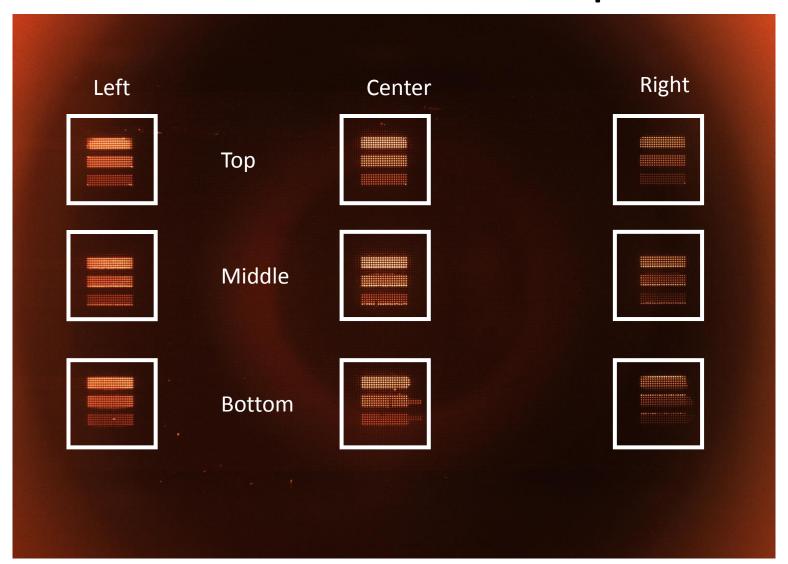
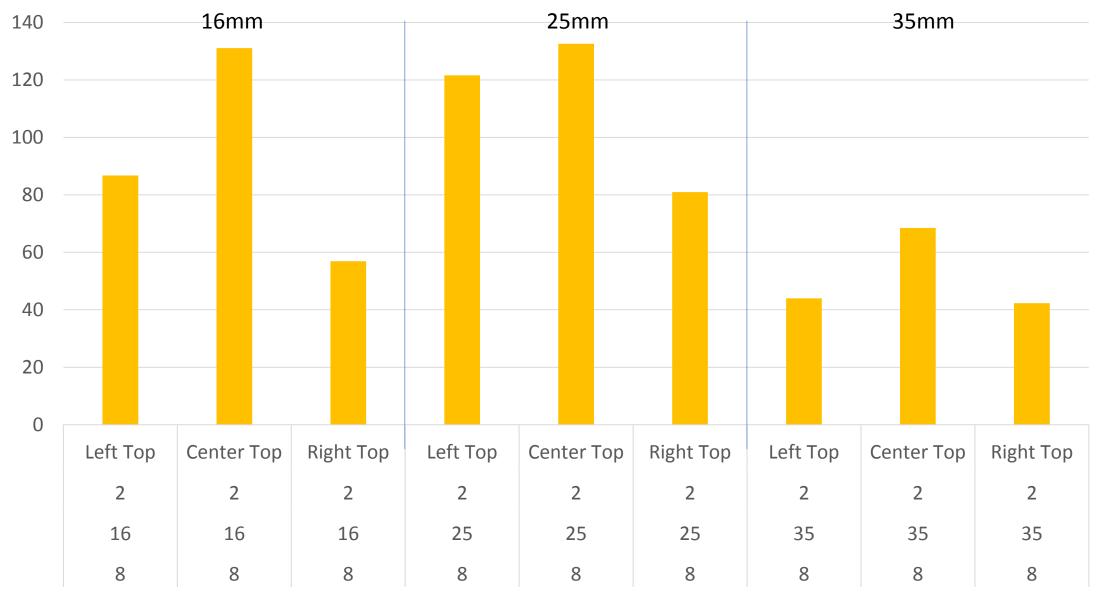
# Fluorescence Data Analysis

1-5-10uM and 1uM chips
8A current, 2 seconds exposure
Lucky Jordan

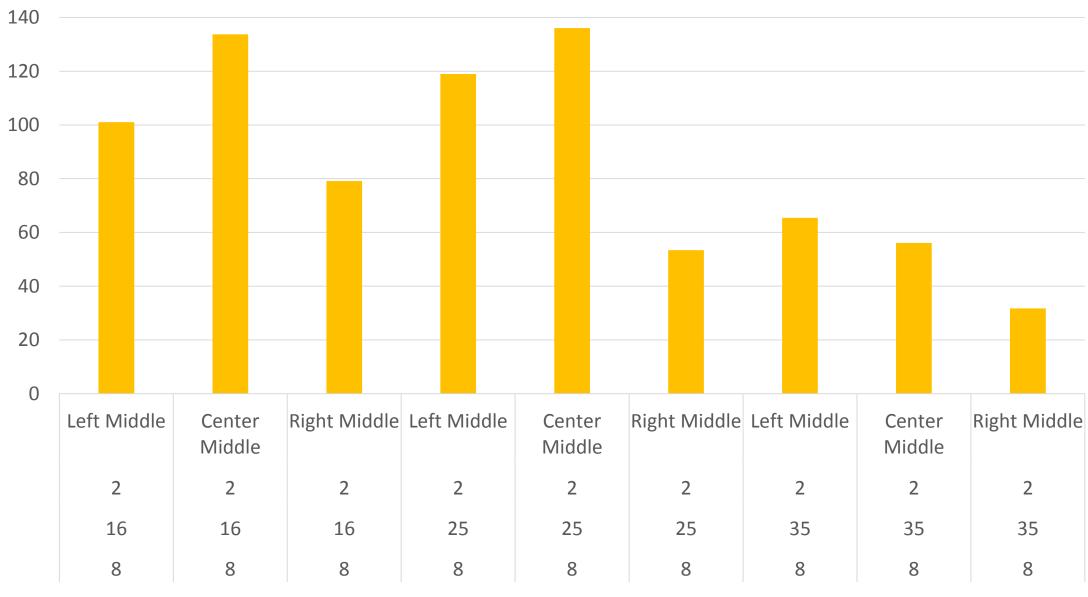
# 1-5-10uM chip



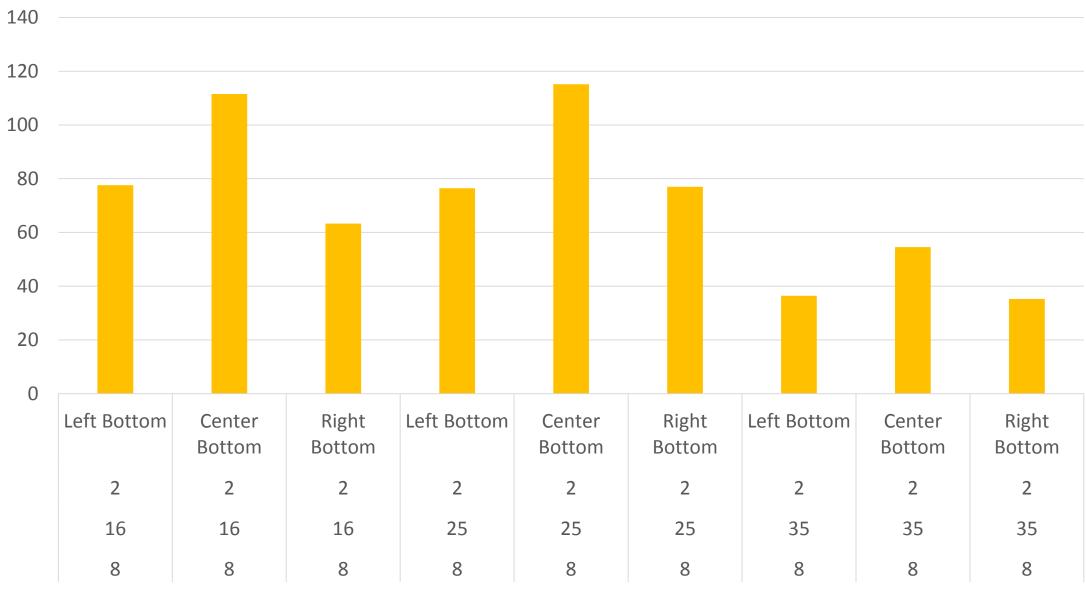
Top Row Signal Comparison – 16/25/35mm



# Middle Row Signal Comparison – 16/25/35mm



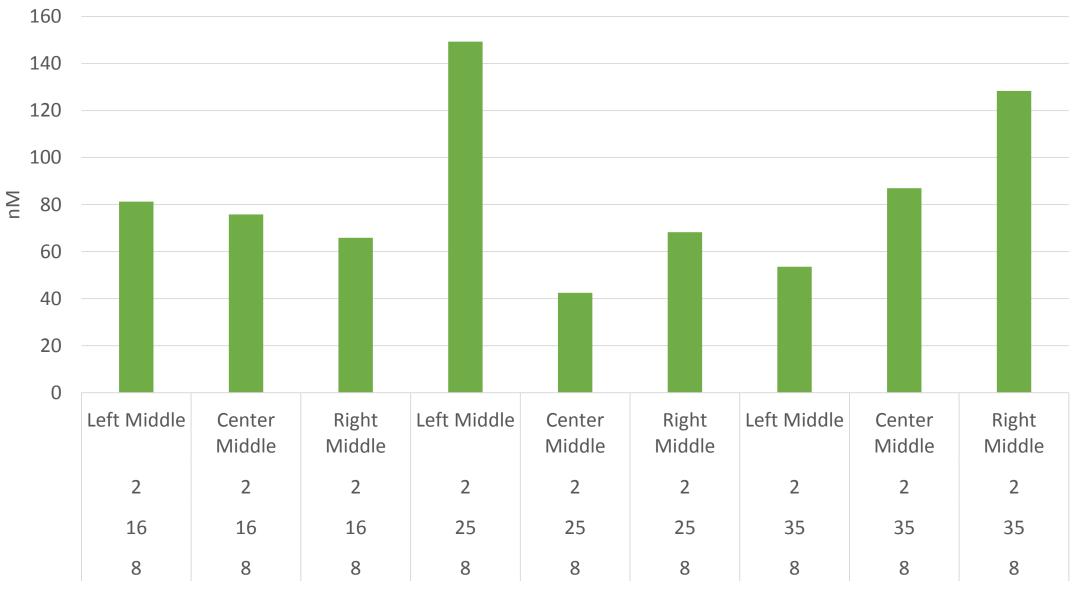
# Bottom Row Signal Comparison – 16/25/35mm



Top Row LOD Comparison – 16/25/35mm

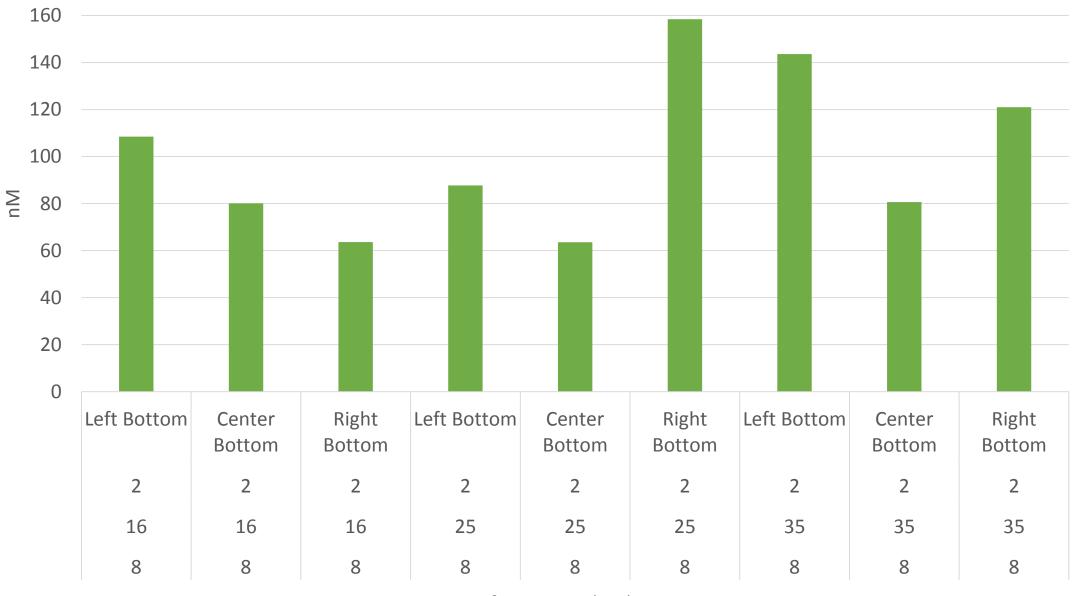


#### Middle Row LOD Comparison – 16/25/35mm



■ Limit of Detection (nM) 1u

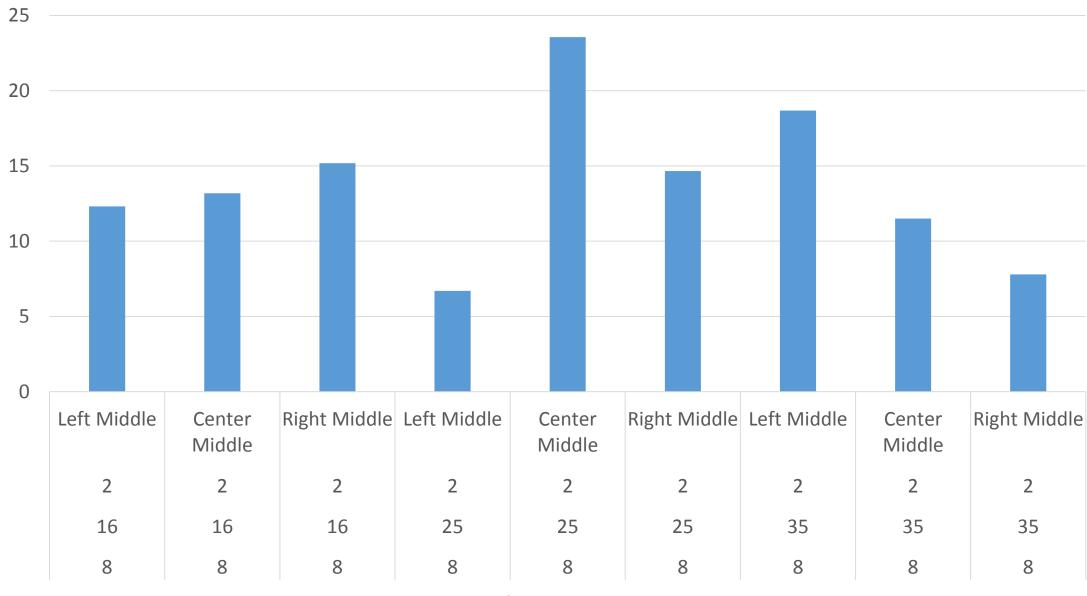
# Bottom Row LOD Comparison – 16/25/35mm



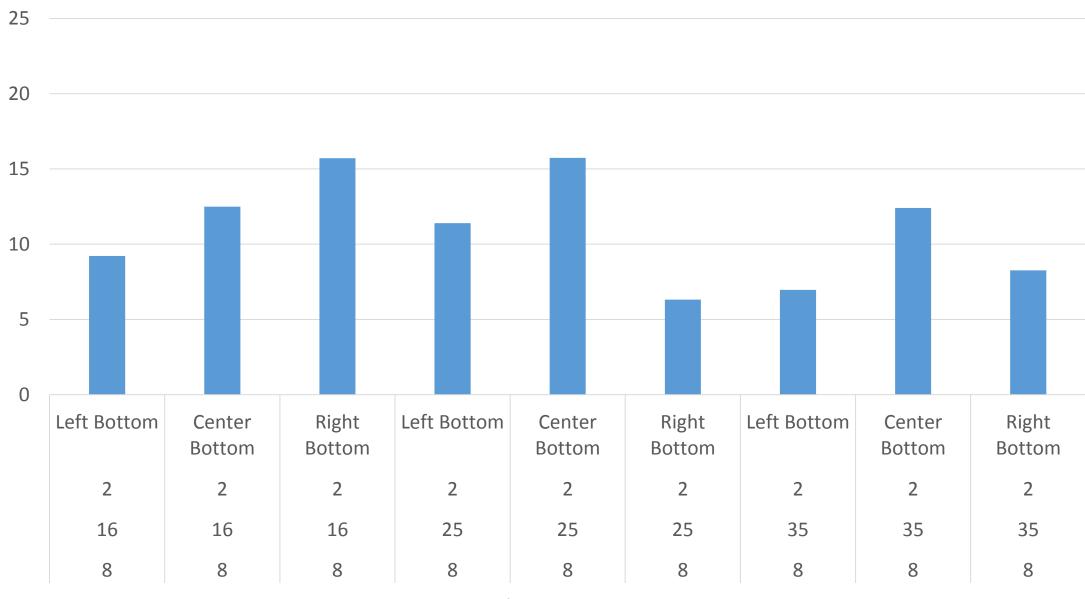


■ Signal to Noise Ratio 1u

# Middle Row Signal to Noise Comparison – 16/25/35mm

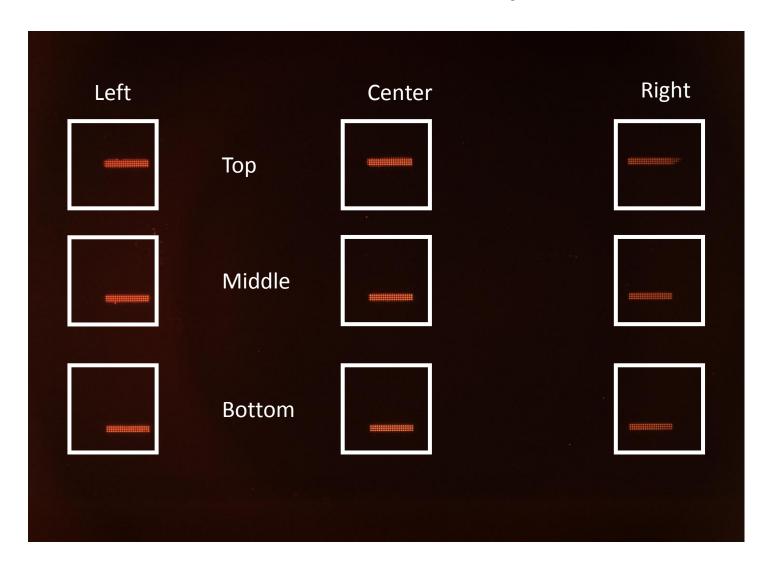


<sup>■</sup> Signal to Noise Ratio 1u

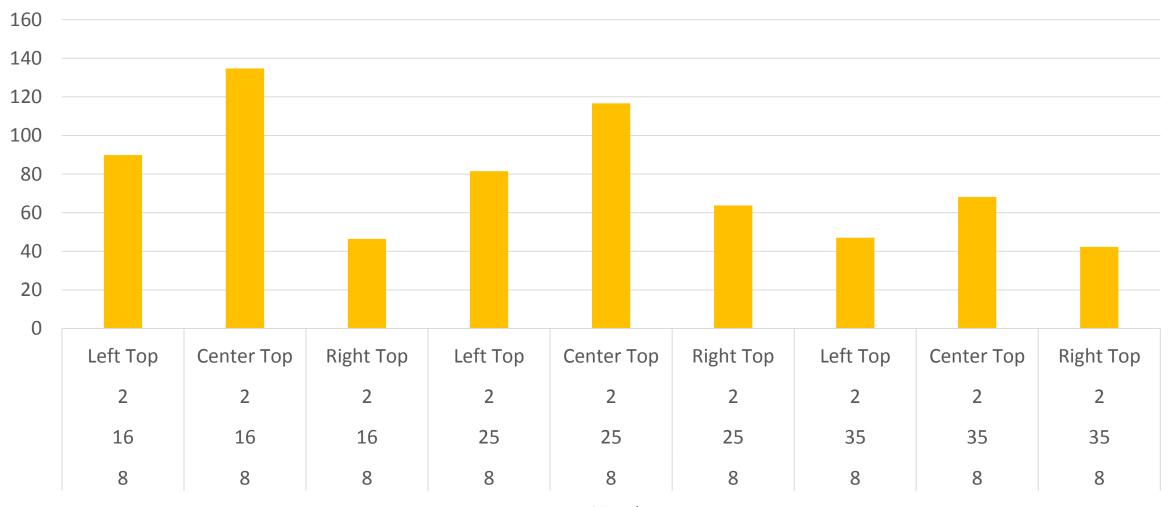


■ Signal to Noise Ratio 1u

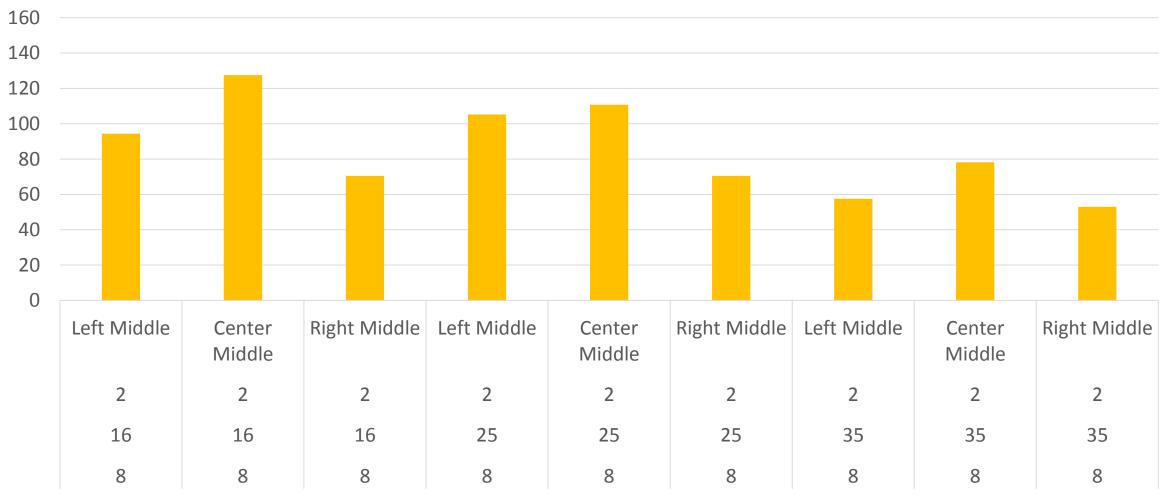
# 1uM chip



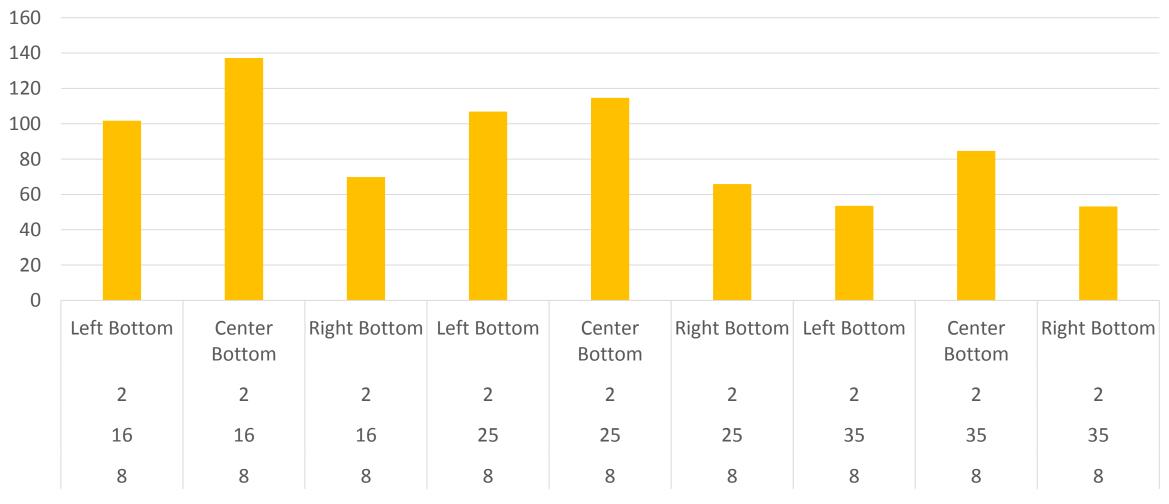
Top Row Signal Comparison - 16/25/35mm



# Middle Row Signal Comparison - 16/25/35mm



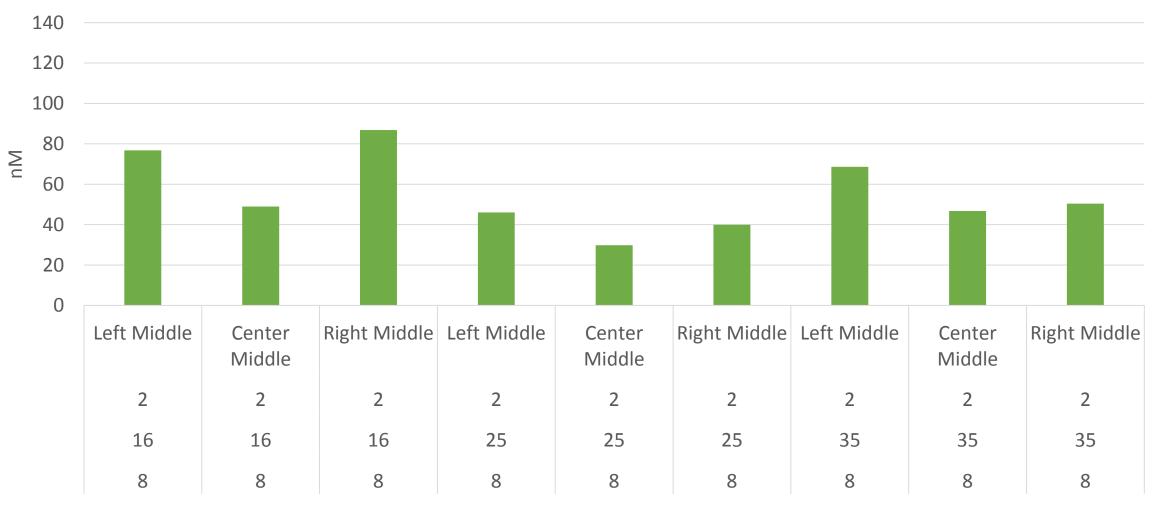
#### Bottom Row Signal Comparison - 16/25/35mm



# Top Row LOD Comparison - 16/25/35mm



#### Middle Row LOD Comparison - 16/25/35mm



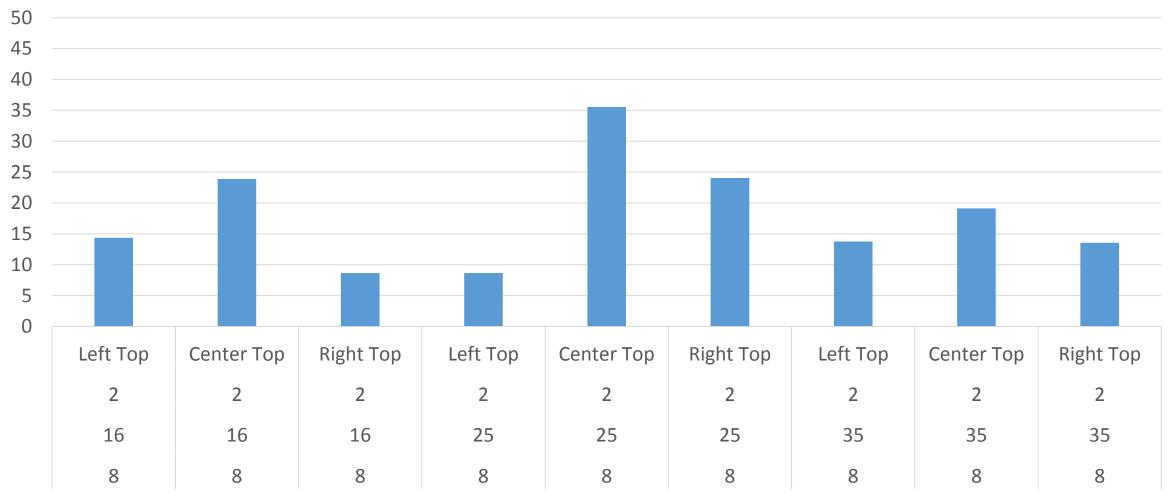
■ Limit of Detection (nM) 1u

#### Bottom Row LOD Comparison - 16/25/35mm



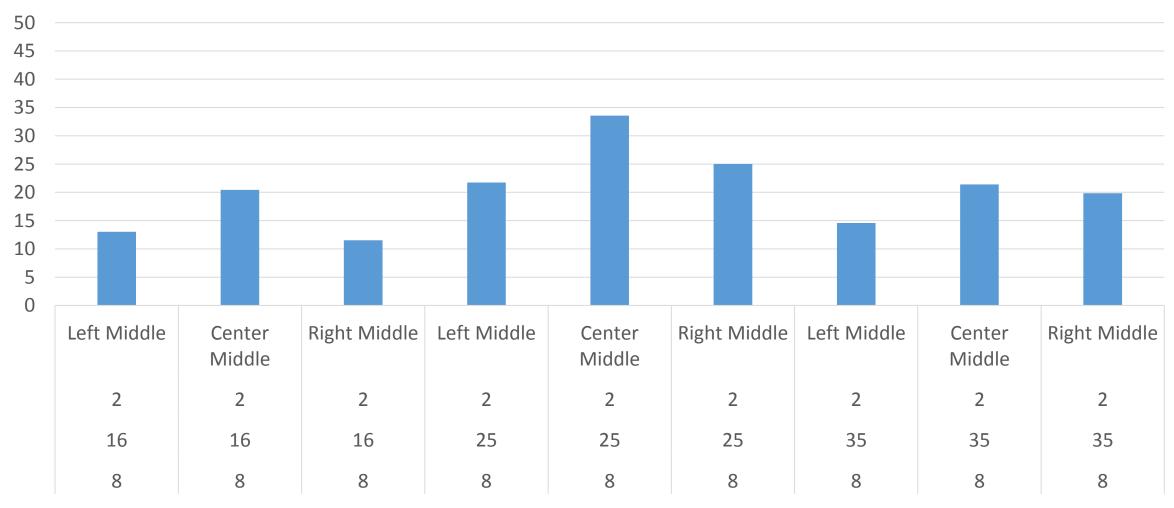
■ Limit of Detection (nM) 1u

# Top Row Signal to Noise Comparison - 16/25/35mm



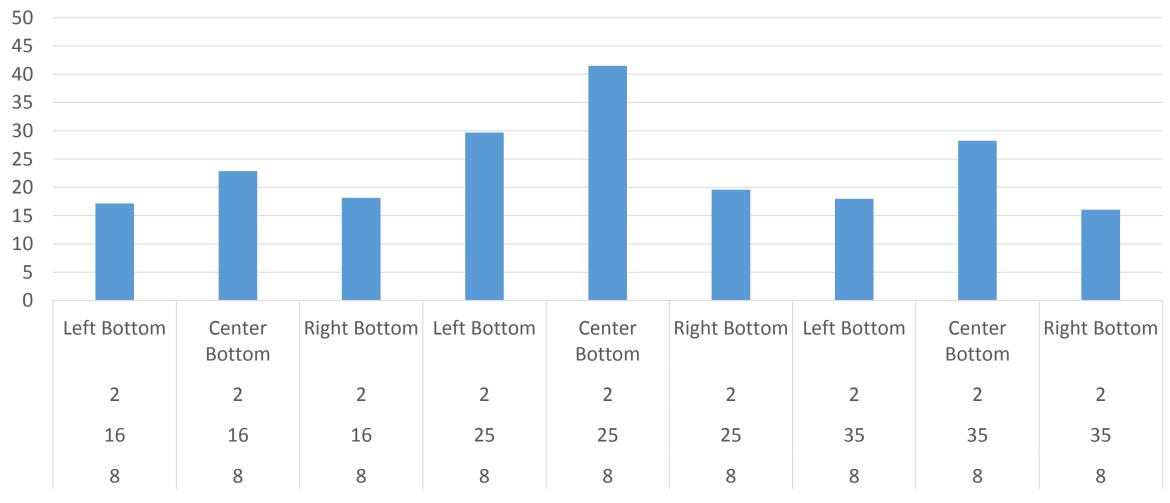
<sup>■</sup> Signal to Noise Ratio 1u

#### Middle Row Signal to Noise Comparison - 16/25/35mm



<sup>■</sup> Signal to Noise Ratio 1u

#### Bottom Row Signal to Noise Comparison - 16/25/35mm

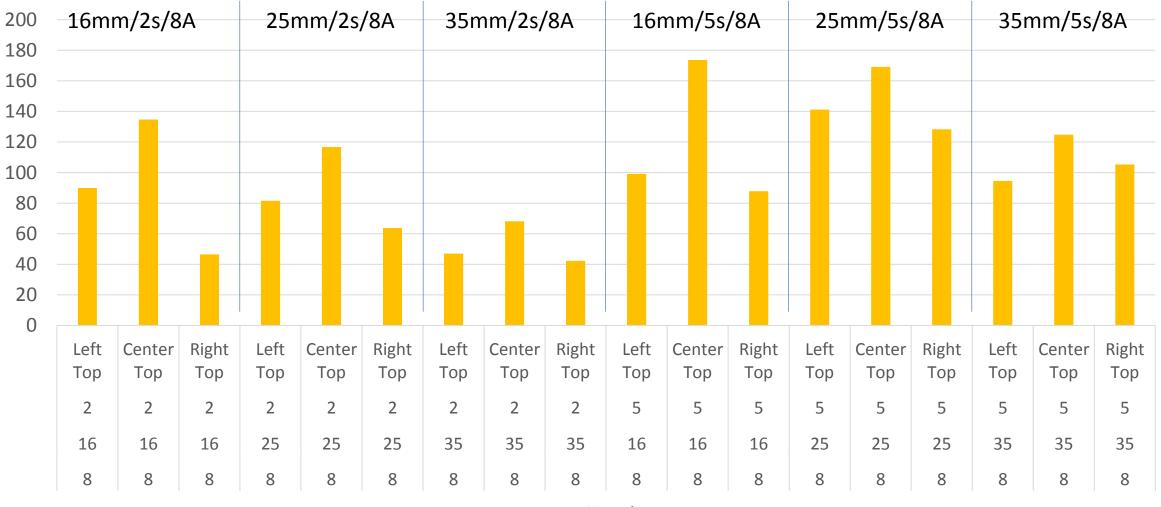


<sup>■</sup> Signal to Noise Ratio 1u

# 1uM continued

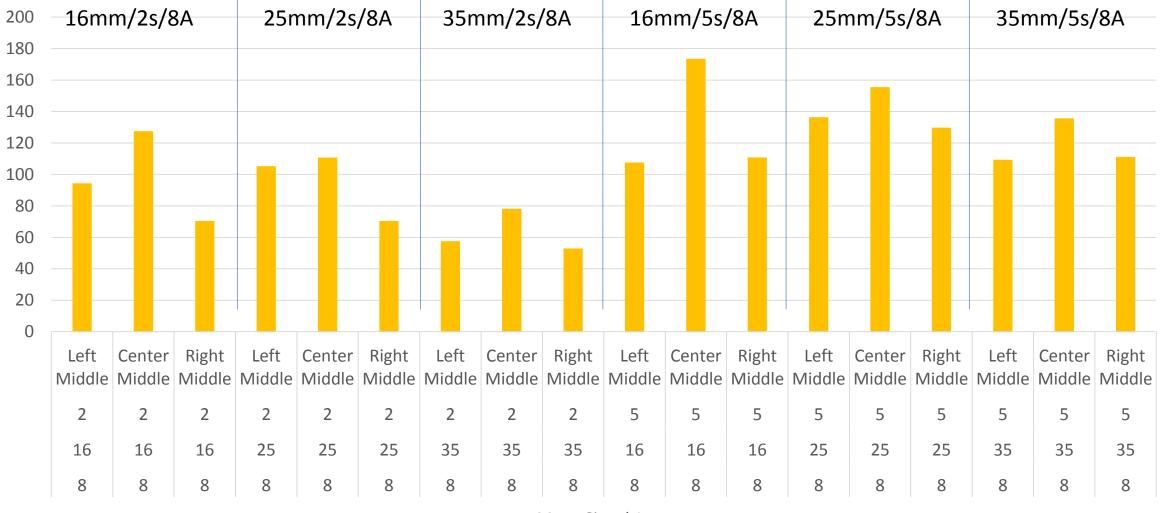
• The following slides compare data across as three lenses at maximum LED drive current with two different exposure times: 2 seconds and 5 seconds.

Top Row Signal Comparison – 2/5sec

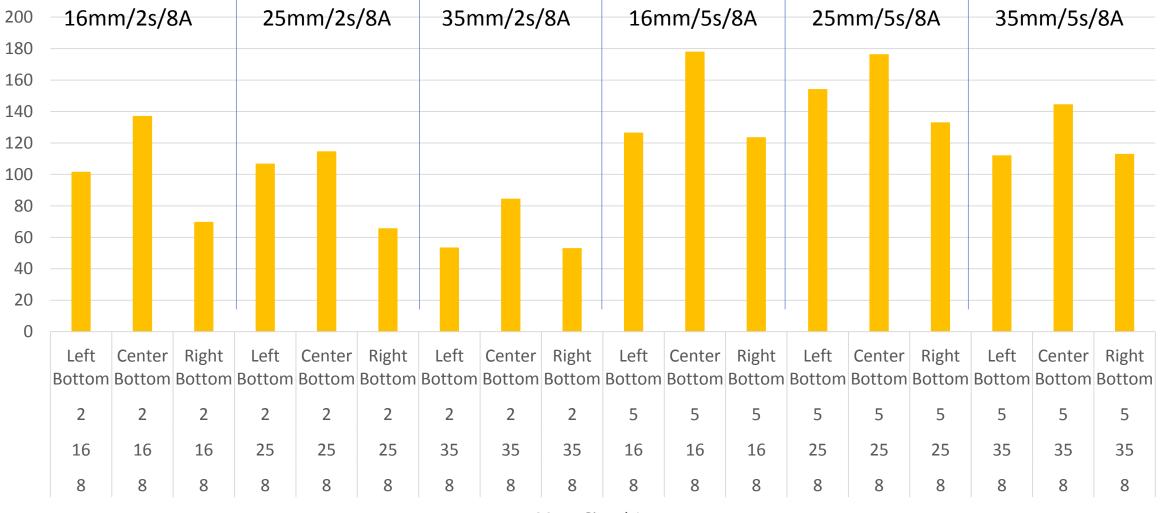


Mean Signal 1u

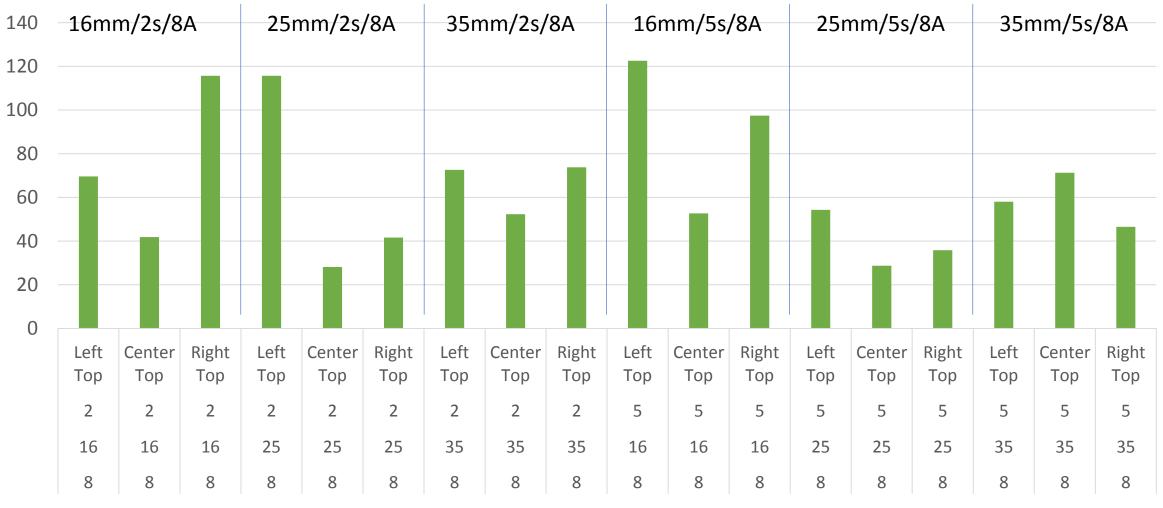
#### Middle Row Signal Comparison – 2/5sec



#### Bottom Row Signal Comparison – 2/5sec

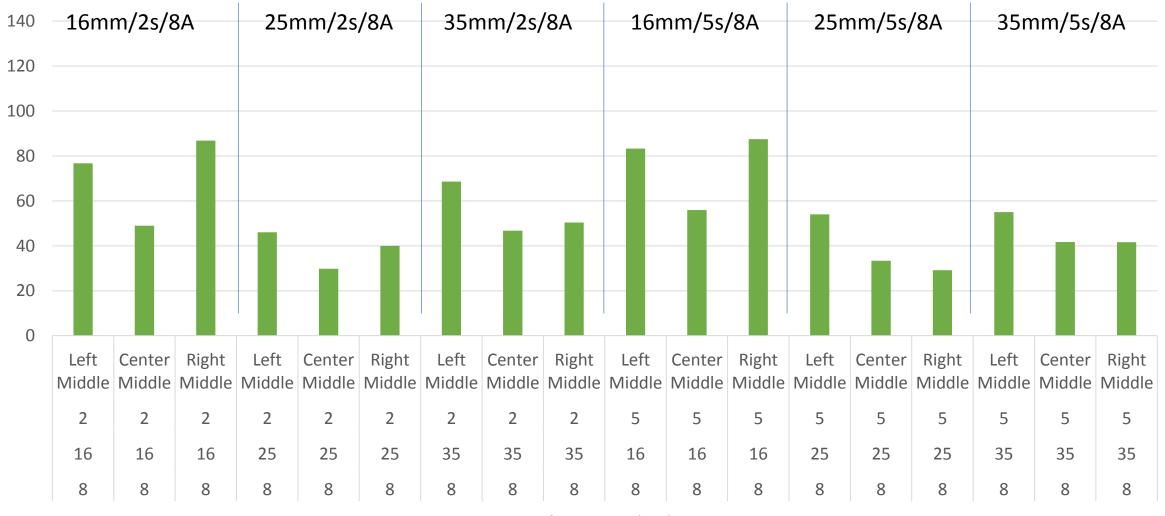


Top Row LOD Comparison – 2/5sec



■ Limit of Detection (nM) 1u

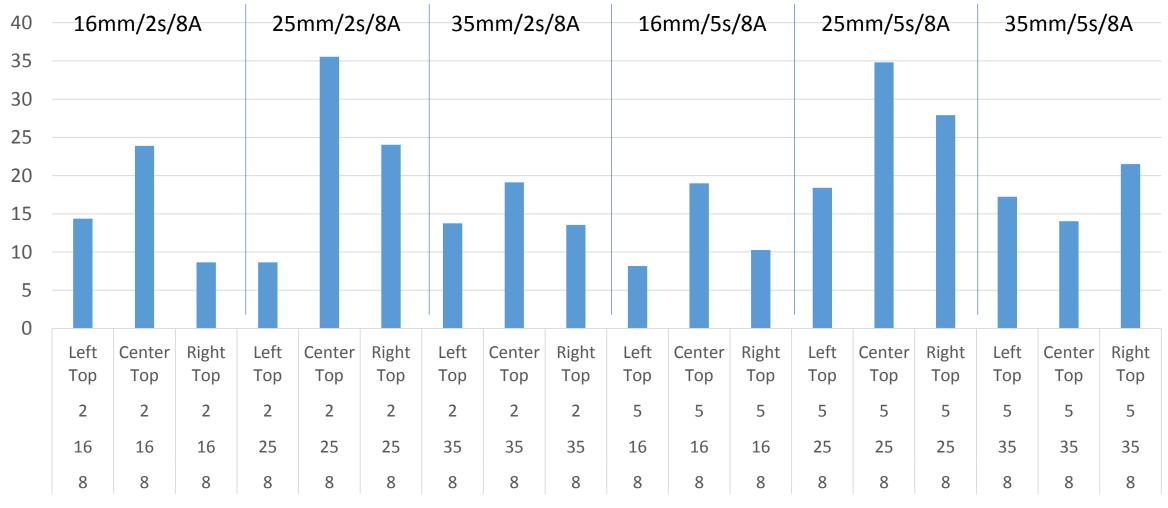
#### Middle Row LOD Comparison – 2/5sec



Bottom Row LOD Comparison – 2/5sec

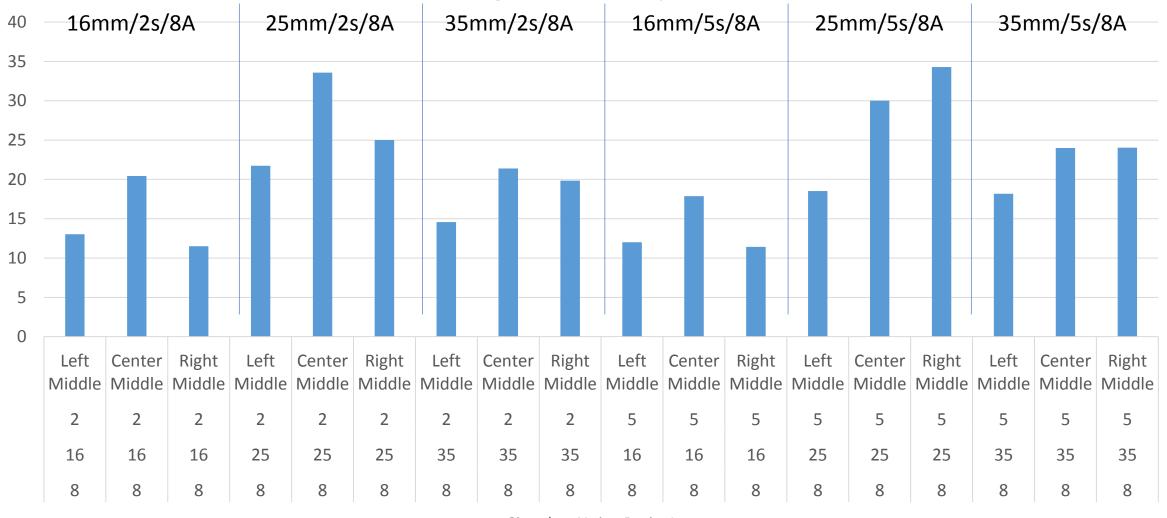
140	16mm/2s/8A			25mm/2s/8A			35mm/2s/8A			16mm/5s/8A			25mm/5s/8A			35mm/5s/8A		
120																		
100																		
80																		
60																		
40	-		-															
20																		
0																		
	Left	Center	Right	Left	Center	Right	Left	Center	Right	Left	Center	Right	Left	Center	Right	Left	Center	Right
	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	5	5
	16	16	16	25	25	25	35	35	35	16	16	16	25	25	25	35	35	35
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
									( D . I	4: / - N /	1\ 4							

Top Row Signal to Noise Comparison − 2/5sec



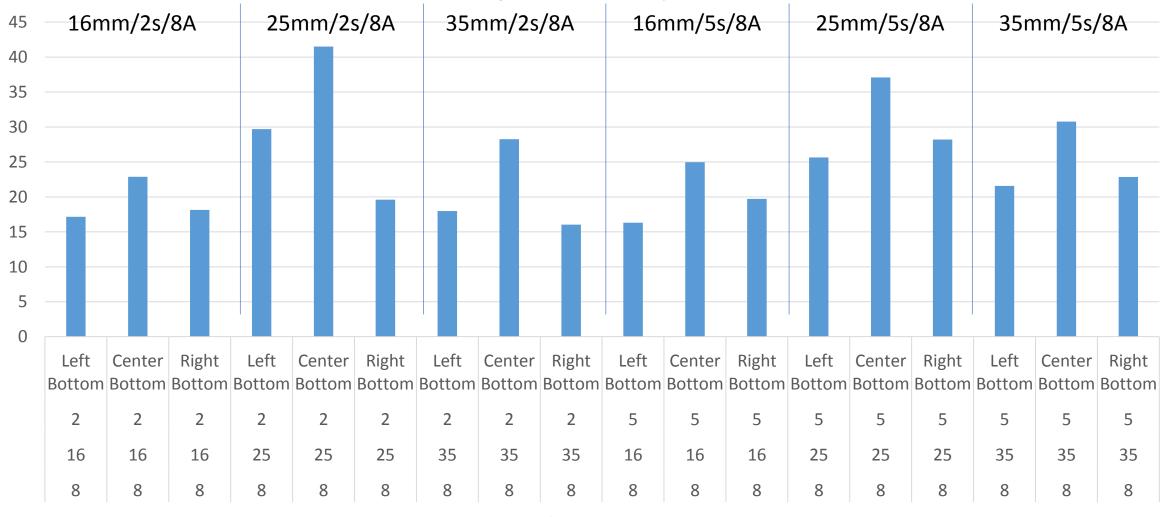
■ Signal to Noise Ratio 1u

#### Middle Row Signal to Noise Comparison – 2/5sec



<sup>■</sup> Signal to Noise Ratio 1u

#### Bottom Row Signal to Noise Comparison – 2/5sec



<sup>■</sup> Signal to Noise Ratio 1u