

	Tektronix 7 Series DPO	Tektronix 6 Series B MSO	Tektronix DPO70000SX	Keysight Infiniium UXR-B	Teledyne-LeCroy WaveMaster 8000HD	Rohde & Schwarz RTP																																																																																																																											
Specification																																																																																																																																	
Bandwidths	8, 10, 13, 16, 20, 25 GHz	1, 2.5, 4, 6, 8, 10 GHz	13, 16, 20, 23, 25, 33 GHz	10, 13, 16, 20, 25, 33 GHz	6, 8, 13, 16, 20, 25, 33 GHz	4, 6, 8, 13, 16 GHz																																																																																																																											
Channels	4	4, 6, 8	4 (16 via UltraSync)	4	4 ProBus @ 2 GHz 4 ProAxial @ 33 GHz	4																																																																																																																											
ADC Resolution	10-bit	12-bit	8-bit	10-bit	12-bit	8-bit																																																																																																																											
ENOB (Effective Number of Bits)	<table><tr><td>bits</td><td>7.5</td><td>7.4</td><td>7.2</td><td>7.1</td><td>6.9</td><td>6.5</td></tr><tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr></table> 500 mV FS, Signal 90% FS	bits	7.5	7.4	7.2	7.1	6.9	6.5	GHz	8	10	13	16	20	25	<table><tr><td>bits</td><td>7.15</td><td>7</td><td>6.85</td><td>6.75</td><td>6.6</td></tr><tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table> 500 mV FS, Signal 90% FS	bits	7.15	7	6.85	6.75	6.6	GHz	6	7	8	9	10	<table><tr><td>bits</td><td>5.9</td><td>5.8</td><td>5.5</td><td>5.4</td><td>5.2</td><td>5.0</td></tr><tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr></table> 500 mV FS, Signal 90% FS	bits	5.9	5.8	5.5	5.4	5.2	5.0	GHz	13	16	20	23	25	33	<table><tr><td>bits</td><td>7.0</td><td>6.8</td><td>6.7</td><td>6.5</td><td>6.2</td><td>5.9</td></tr><tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 400 mV FS	bits	7.0	6.8	6.7	6.5	6.2	5.9	GHz	10	13	16	20	25	33	<table><tr><td>bits</td><td>6.37</td><td>6.07</td><td>5.6</td><td>5.49</td><td>6.14</td><td>5.96</td><td>5.62</td></tr><tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> Signal 80% FS	bits	6.37	6.07	5.6	5.49	6.14	5.96	5.62	GHz	6	8	13	16	20	25	33	(unspecified)																																																					
bits	7.5	7.4	7.2	7.1	6.9	6.5																																																																																																																											
GHz	8	10	13	16	20	25																																																																																																																											
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Rise Time (10-90%)	50 ps (8 GHz) to 16 ps (25 GHz)	40 ps (10 GHz)	32 ps (13 GHz) to 13 ps (33 GHz)	44 ps (10 GHz) to 13 ps (33 GHz)	77 ps (6 GHz) to 15.9/12.6 ps (25/33 GHz)	108 ps (4 GHz) to 27 ps (16 GHz)																																																																																																																											
Vertical Noise ^{1,2} (Small Scale) (rms)	<table><tr><td>µV</td><td>254</td><td>279</td><td>320</td><td>377</td><td>418</td><td>550</td></tr><tr><td>% FS</td><td>0.13%</td><td>0.14%</td><td>0.16%</td><td>0.19%</td><td>0.21%</td><td>0.28%</td></tr><tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr></table> 200 mV FS	µV	254	279	320	377	418	550	% FS	0.13%	0.14%	0.16%	0.19%	0.21%	0.28%	GHz	8	10	13	16	20	25	<table><tr><td>µV</td><td>412</td><td>457</td><td>501</td><td>549</td><td>602</td></tr><tr><td>% FS</td><td>0.21%</td><td>0.23%</td><td>0.25%</td><td>0.27%</td><td>0.30%</td></tr><tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table> 200 mV FS	µV	412	457	501	549	602	% FS	0.21%	0.23%	0.25%	0.27%	0.30%	GHz	6	7	8	9	10	<table><tr><td>µV</td><td>990</td><td>1040</td><td>1130</td><td>1140</td><td>1380</td><td>1520</td></tr><tr><td>% FS</td><td>0.50%</td><td>0.52%</td><td>0.57%</td><td>0.57%</td><td>0.69%</td><td>0.76%</td></tr><tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr></table> 200 mV FS	µV	990	1040	1130	1140	1380	1520	% FS	0.50%	0.52%	0.57%	0.57%	0.69%	0.76%	GHz	13	16	20	23	25	33	<table><tr><td>µV</td><td>322</td><td>377</td><td>414</td><td>469</td><td>541</td><td>702</td></tr><tr><td>% FS</td><td>0.20%</td><td>0.24%</td><td>0.26%</td><td>0.29%</td><td>0.34%</td><td>0.44%</td></tr><tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 160 mV FS	µV	322	377	414	469	541	702	% FS	0.20%	0.24%	0.26%	0.29%	0.34%	0.44%	GHz	10	13	16	20	25	33	<table><tr><td>µV</td><td>380</td><td>498</td><td>672</td><td>712</td><td>502</td><td>592</td><td>624</td></tr><tr><td>% FS</td><td>0.24%</td><td>0.31%</td><td>0.42%</td><td>0.45%</td><td>0.31%</td><td>0.37%</td><td>0.39%</td></tr><tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 160 mV FS	µV	380	498	672	712	502	592	624	% FS	0.24%	0.31%	0.42%	0.45%	0.31%	0.37%	0.39%	GHz	6	8	13	16	20	25	33	<table><tr><td>µV</td><td>630</td><td>750</td><td>880</td><td>1300</td><td>1500</td></tr><tr><td>% FS</td><td>0.32%</td><td>0.38%</td><td>0.44%</td><td>0.65%</td><td>0.75%</td></tr><tr><td>GHz</td><td>4</td><td>6</td><td>8</td><td>13</td><td>16</td></tr></table> 200 mV FS	µV	630	750	880	1300	1500	% FS	0.32%	0.38%	0.44%	0.65%	0.75%	GHz	4	6	8	13	16
µV	254	279	320	377	418	550																																																																																																																											
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Vertical Noise ^{1,2} (Medium Scale) (rms)	<table><tr><td>mV</td><td>0.523</td><td>0.595</td><td>0.680</td><td>0.743</td><td>0.864</td><td>1.13</td></tr><tr><td>% FS</td><td>0.10%</td><td>0.12%</td><td>0.14%</td><td>0.15%</td><td>0.17%</td><td>0.23%</td></tr><tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr></table> 500 mV FS	mV	0.523	0.595	0.680	0.743	0.864	1.13	% FS	0.10%	0.12%	0.14%	0.15%	0.17%	0.23%	GHz	8	10	13	16	20	25	<table><tr><td>mV</td><td>0.949</td><td>1.07</td><td>1.15</td><td>1.27</td><td>1.39</td></tr><tr><td>% FS</td><td>0.19%</td><td>0.21%</td><td>0.23%</td><td>0.25%</td><td>0.28%</td></tr><tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table> 500 mV FS	mV	0.949	1.07	1.15	1.27	1.39	% FS	0.19%	0.21%	0.23%	0.25%	0.28%	GHz	6	7	8	9	10	<table><tr><td>mV</td><td>2.2</td><td>2.17</td><td>2.55</td><td>2.65</td><td>3.15</td><td>3.55</td></tr><tr><td>% FS</td><td>0.44%</td><td>0.43%</td><td>0.51%</td><td>0.53%</td><td>0.63%</td><td>0.71%</td></tr><tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr></table> 500 mV FS	mV	2.2	2.17	2.55	2.65	3.15	3.55	% FS	0.44%	0.43%	0.51%	0.53%	0.63%	0.71%	GHz	13	16	20	23	25	33	<table><tr><td>mV</td><td>0.701</td><td>0.81</td><td>0.878</td><td>0.975</td><td>1.16</td><td>1.48</td></tr><tr><td>% FS</td><td>0.18%</td><td>0.20%</td><td>0.22%</td><td>0.24%</td><td>0.29%</td><td>0.37%</td></tr><tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 400 mV FS	mV	0.701	0.81	0.878	0.975	1.16	1.48	% FS	0.18%	0.20%	0.22%	0.24%	0.29%	0.37%	GHz	10	13	16	20	25	33	<table><tr><td>mV</td><td>0.889</td><td>0.948</td><td>1.28</td><td>1.36</td><td>1.17</td><td>1.31</td><td>1.36</td></tr><tr><td>% FS</td><td>0.22%</td><td>0.24%</td><td>0.32%</td><td>0.34%</td><td>0.29%</td><td>0.33%</td><td>0.34%</td></tr><tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 400 mV FS	mV	0.889	0.948	1.28	1.36	1.17	1.31	1.36	% FS	0.22%	0.24%	0.32%	0.34%	0.29%	0.33%	0.34%	GHz	6	8	13	16	20	25	33	<table><tr><td>mV</td><td>1.4</td><td>1.7</td><td>2</td><td>2.7</td><td>3.4</td></tr><tr><td>% FS</td><td>0.28%</td><td>0.34%</td><td>0.40%</td><td>0.54%</td><td>0.68%</td></tr><tr><td>GHz</td><td>4</td><td>6</td><td>8</td><td>13</td><td>16</td></tr></table> 500 mV FS	mV	1.4	1.7	2	2.7	3.4	% FS	0.28%	0.34%	0.40%	0.54%	0.68%	GHz	4	6	8	13	16
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Vertical Noise ^{1,2} (Large Scale) (rms)	<table><tr><td>mV</td><td>1.32</td><td>1.45</td><td>1.67</td><td>1.97</td><td>2.29</td><td>2.97</td></tr><tr><td>% FS</td><td>0.13%</td><td>0.15%</td><td>0.17%</td><td>0.20%</td><td>0.23%</td><td>0.30%</td></tr><tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr></table> 1000 mV FS	mV	1.32	1.45	1.67	1.97	2.29	2.97	% FS	0.13%	0.15%	0.17%	0.20%	0.23%	0.30%	GHz	8	10	13	16	20	25	<table><tr><td>mV</td><td>2.39</td><td>2.68</td><td>2.94</td><td>3.22</td><td>3.58</td></tr><tr><td>% FS</td><td>0.24%</td><td>0.27%</td><td>0.29%</td><td>0.32%</td><td>0.36%</td></tr><tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table> 1000 mV FS	mV	2.39	2.68	2.94	3.22	3.58	% FS	0.24%	0.27%	0.29%	0.32%	0.36%	GHz	6	7	8	9	10	<table><tr><td>mV</td><td>4.2</td><td>4.29</td><td>5.04</td><td>5.09</td><td>5.9</td><td>6.8</td></tr><tr><td>% FS</td><td>0.42%</td><td>0.43%</td><td>0.50%</td><td>0.51%</td><td>0.59%</td><td>0.68%</td></tr><tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr></table> 1000 mV FS	mV	4.2	4.29	5.04	5.09	5.9	6.8	% FS	0.42%	0.43%	0.50%	0.51%	0.59%	0.68%	GHz	13	16	20	23	25	33	<table><tr><td>mV</td><td>1.44</td><td>1.58</td><td>1.75</td><td>1.92</td><td>2.24</td><td>2.91</td></tr><tr><td>% FS</td><td>0.18%</td><td>0.20%</td><td>0.22%</td><td>0.24%</td><td>0.28%</td><td>0.36%</td></tr><tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 800 mV FS	mV	1.44	1.58	1.75	1.92	2.24	2.91	% FS	0.18%	0.20%	0.22%	0.24%	0.28%	0.36%	GHz	10	13	16	20	25	33	<table><tr><td>mV</td><td>1.7</td><td>2.04</td><td>2.55</td><td>2.63</td><td>2.32</td><td>2.59</td><td>2.72</td></tr><tr><td>% FS</td><td>0.21%</td><td>0.26%</td><td>0.32%</td><td>0.33%</td><td>0.29%</td><td>0.32%</td><td>0.34%</td></tr><tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 800 mV FS	mV	1.7	2.04	2.55	2.63	2.32	2.59	2.72	% FS	0.21%	0.26%	0.32%	0.33%	0.29%	0.32%	0.34%	GHz	6	8	13	16	20	25	33	<table><tr><td>mV</td><td>2.7</td><td>3.1</td><td>3.6</td><td>4.3</td><td>5.2</td></tr><tr><td>% FS</td><td>0.27%</td><td>0.31%</td><td>0.36%</td><td>0.43%</td><td>0.52%</td></tr><tr><td>GHz</td><td>4</td><td>6</td><td>8</td><td>13</td><td>16</td></tr></table> 1000 mV FS	mV	2.7	3.1	3.6	4.3	5.2	% FS	0.27%	0.31%	0.36%	0.43%	0.52%	GHz	4	6	8	13	16
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Vertical Noise ^{1,2} (Very Large Scale) (rms)	<table><tr><td>mV</td><td>5.01</td><td>5.5</td><td>6.48</td><td>7.55</td><td>8.53</td><td>10.3</td></tr><tr><td>% FS</td><td>0.10%</td><td>0.11%</td><td>0.13%</td><td>0.15%</td><td>0.17%</td><td>0.21%</td></tr><tr><td>GHz</td><td>8</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td></tr></table> 5V FS	mV	5.01	5.5	6.48	7.55	8.53	10.3	% FS	0.10%	0.11%	0.13%	0.15%	0.17%	0.21%	GHz	8	10	13	16	20	25	<table><tr><td>mV</td><td>19</td><td>21.1</td><td>23.1</td><td>25</td><td>27.4</td></tr><tr><td>% FS</td><td>0.19%</td><td>0.21%</td><td>0.23%</td><td>0.25%</td><td>0.27%</td></tr><tr><td>GHz</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr></table> 10 V FS	mV	19	21.1	23.1	25	27.4	% FS	0.19%	0.21%	0.23%	0.25%	0.27%	GHz	6	7	8	9	10	<table><tr><td>mV</td><td>25.74</td><td>26.65</td><td>29.53</td><td>29.65</td><td>35.04</td><td>39.82</td></tr><tr><td>% FS</td><td>0.43%</td><td>0.44%</td><td>0.49%</td><td>0.49%</td><td>0.58%</td><td>0.66%</td></tr><tr><td>GHz</td><td>13</td><td>16</td><td>20</td><td>23</td><td>25</td><td>33</td></tr></table> 6 V FS	mV	25.74	26.65	29.53	29.65	35.04	39.82	% FS	0.43%	0.44%	0.49%	0.49%	0.58%	0.66%	GHz	13	16	20	23	25	33	<table><tr><td>mV</td><td>14.1</td><td>15.5</td><td>17.2</td><td>19.2</td><td>22.3</td><td>28.8</td></tr><tr><td>% FS</td><td>0.18%</td><td>0.19%</td><td>0.22%</td><td>0.24%</td><td>0.28%</td><td>0.36%</td></tr><tr><td>GHz</td><td>10</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 8 V FS	mV	14.1	15.5	17.2	19.2	22.3	28.8	% FS	0.18%	0.19%	0.22%	0.24%	0.28%	0.36%	GHz	10	13	16	20	25	33	<table><tr><td>mV</td><td>16.81</td><td>19.7</td><td>25.5</td><td>26</td><td>21.95</td><td>-</td><td>-</td></tr><tr><td>% FS</td><td>0.21%</td><td>0.25%</td><td>0.32%</td><td>0.33%</td><td>0.27%</td><td>-</td><td>-</td></tr><tr><td>GHz</td><td>6</td><td>8</td><td>13</td><td>16</td><td>20</td><td>25</td><td>33</td></tr></table> 8 V FS	mV	16.81	19.7	25.5	26	21.95	-	-	% FS	0.21%	0.25%	0.32%	0.33%	0.27%	-	-	GHz	6	8	13	16	20	25	33	<table><tr><td>mV</td><td>27</td><td>32</td><td>36</td><td>43</td><td>48</td></tr><tr><td>% FS</td><td>0.27%</td><td>0.32%</td><td>0.36%</td><td>0.43%</td><td>0.48%</td></tr><tr><td>GHz</td><td>4</td><td>6</td><td>8</td><td>13</td><td>16</td></tr></table> 10 V FS	mV	27	32	36	43	48	% FS	0.27%	0.32%	0.36%	0.43%	0.48%	GHz	4	6	8	13	16
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Intrinsic Jitter (Aperture Uncertainty) (rms)	<table><tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr><tr><td>60 fs</td><td>70 fs</td><td>70 fs</td><td>70 fs</td></tr></table>	1 µs	10 µs	100 µs	1 ms	60 fs	70 fs	70 fs	70 fs	<table><tr><td>1 µs</td><td>-</td><td>-</td><td>1 ms</td></tr><tr><td>80 fs</td><td>-</td><td>-</td><td>130 fs</td></tr></table>	1 µs	-	-	1 ms	80 fs	-	-	130 fs	<table><tr><td>-</td><td>10 µs</td><td>-</td><td>-</td></tr><tr><td>-</td><td>100 fs</td><td>-</td><td>-</td></tr></table>	-	10 µs	-	-	-	100 fs	-	-	<table><tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr><tr><td>15 fs</td><td>25 fs</td><td>40 fs</td><td>50 fs</td></tr></table>	1 µs	10 µs	100 µs	1 ms	15 fs	25 fs	40 fs	50 fs	<table><tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr><tr><td>15 fs</td><td>28 fs</td><td>32 fs</td><td>33 fs</td></tr></table>	1 µs	10 µs	100 µs	1 ms	15 fs	28 fs	32 fs	33 fs	<table><tr><td>1 µs</td><td>10 µs</td><td>100 µs</td><td>1 ms</td></tr><tr><td>50 fs</td><td>63 fs</td><td>72 fs</td><td>76 fs</td></tr></table>	1 µs	10 µs	100 µs	1 ms	50 fs	63 fs	72 fs	76 fs																																																																											
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Sample Rate	125 GS/s	50 GS/s (2 ch), 25 GS/s (4 ch), 12.5 GS/s (8 ch)	100 GS/s (2 ch), 50 GS/s (4 ch)	128 GS/s	80 GS/s (4 ch, 6-33 GHz) 160 GS/s (2 ch, 50-65 GHz) <i>"Enhanced Sample Rate"</i> similar to Tek's IT mode (Interpolated Time)	40 GS/s (2 ch), 20 GS/s (4 ch)																																																																																																																											
Record Length Std / Optional	500 Mpoints / 2 Gpoints	62.5 Mpoints / 1 Gpoints	62.5 Mpoints / 1 Gpoints	500 Mpoints / 2 Gpoints	200 Mpoints / 8 Gpoints	50 Mpoints / 1 Gpoints																																																																																																																											
Maximum Waveform Capture Rate (wfms/s)	-	>500,000 (4 ch simultaneously w/ FastAcq)	> 300,000 (4 ch simultaneously w/ FastAcq)	-	-	-																																																																																																																											
Maximum segmented memory (record length) acquisition rate	-	>5,000,000 (4 ch simultaneously w/ FastFrame)	> 310,000 (4ch simultaneously w/ FastFrame)	> 285,700 (4ch simultaneously w/ segmented memory)	>900,000 (4ch simultaneously w/ Sequence Mode)	>750,000 (w/ segmented memory)																																																																																																																											
Edge Trigger Bandwidth	25 GHz (digital)	10 GHz (digital)	>25 GHz	13 GHz (13 GHz) to 33 GHz (33 GHz) (digital)	<=15 GHz	16 GHz																																																																																																																											
Complex Trigger Bandwidth	25 GHz (digital)	10 GHz (digital)	> 25 GHz (analog)	<i>Unspecified (analog)</i>	<i>Unspecified</i>	<i>Unspecified</i>																																																																																																																											
Pulse Trigger Minimum Detectable Pulse Width	< 32 ps	160 ps	< 40 ps	50 ps	200 ps	25 ps																																																																																																																											
Trigger Jitter (rms)	10 fs	≤ 1.5 ps	10 fs	116 fs	< 0.1 ps	< 80 fs																																																																																																																											
Trigger Latency (Ext Trig)	Low-latency: <20 ns – Ch 1 (25 GHz) & Aux In (8 GHz) Normal: 1.8 µs – Ch1-4 (25 GHz) & Aux In (8 GHz)	1.1 µs	< 30 ns	<i>Unspecified</i>	<i>Unspecified</i>	<i>Unspecified</i>																																																																																																																											
Digital (MSO) Channels	-	Up to 64 (requires TLP058 8 ch logic probe)	-	-	16 (internal) 18 (external box)	16																																																																																																																											
Digital (MSO) Sample Rate	-	50 GS/s (2 ch), 25 GS/s (4 ch), 12.5 GS/s (8 ch)	-	-	2.5 GS/s (internal) 12.5 GS/s (external box)	5 GS/s																																																																																																																											
Measurement Analysis & Application Solutions	Refer to Oscilloscope Selection Guide (46W-31080-xx)	Refer to Oscilloscope Selection Guide (46W-31080-xx)	Refer to Oscilloscope Selection Guide (46W-31080-xx)	Refer to Keysight website	Refer to Teledyne LeCroy website	Refer to R&S website																																																																																																																											
Display	15.6" 1080p (1920x1080) w/ capacitive touch	15.6" 1080p (1920x1080) w/ capacitive touch	6.5" 1080p (1920x768) w/ resistive touch	15.4" XGA (1024x768) w/ capacitive touch	15.6" 1080p (1920x1080) w/ capacitive touch	12.1" WXGA (1280x800) w/ capacitive touch																																																																																																																											
Operating System	Embedded (std) or Windows 10 (opt)	Embedded (std) or Windows 10 (opt)	Windows 10	Windows 10	Windows 10	Windows 10																																																																																																																											

1-Full scale is defined by each vendor with following number of vertical divisions:
Tektronix - 10
Keysight - 8
LeCroy – 8
Rohde & Schwarz - 10

2-Vertical Noise (rms) provided with both actual specified values from vendor’s datasheet and as a % full scale to normalize the vertical noise to enable comparisons between each vendor’s scope given the difference in how each vendor defines full scale.
% FS is calculated for a given V/div setting by dividing the vertical noise (rms) by the V/div setting. For example, at 500 mV/div FS (Medium Scale), Tektronix specifies 1.13 mV vertical noise @ 25 GHz or 1.13 mv / 500 mV FS or 0.23% FS.