

Test Report for VESA Display HDR

Company Name : Top Victory Investments Limited

Model Name : AOC AG274QG

Display HDR Tier : 600

Test Start Date : 02/20/2021

Report Date : 02/24/2021

Test Result : Pass

Notice:

Test result is valid only to the original tested device model. Allion reserves the right to prohibit others to distort, isolate, falsify, copied and/or by any process to change the content of this test report unless it is prior approved by Allion.

**Company**Company Name: Top Victory Investments LimitedCompany Address: 8F., NO. 230, Liancheng Rd., Zhonghe District, Liancheng Rd New Taipei City Taiwan**Contact**Name: Allen SungPhone Number: 886-2-82261668 #2649E-Mail: allen.sung@tpv-tech.com**Product Information:**Target HDR Tier: 600Provided DUT Information Form: Yes NoDisplay Firmware Version: 20210118Panel Driver IC model name: LM270WQB-SSA1Panel Driver IC FW: SSA1HDR mode OSD settings: OSD>Picture>HDR>HDR600DP Certificaion status: Yes***** This is a required field, the test project will be held until the information provided. *****

Version of Test Specification: Ver 1.1, 29 Aug, 2019

Test interface port: DisplayPort, HDMI 1, HDMI 2

All external inputs: DP*1 , HDMI*2

Tester: Tommy ChenAuthorized Signature: *Lexus Lee***Overall Test Result: Pass**Project ID: MOR-AOC-VSH-127
Document Number : VSH-RPT-002



Certified Product Website Posting Information

If this section is left blank, device(s) will not be posted publicly on the VESA site(s).

At a later date, you may choose to send a copy of your certification and this information to moderator@vesa.org for posting.

If you would like the product listing to hyperlink to an associated product page but do not currently know the URL, you may send the URL at a later date to moderator@vesa.org.

Exact product name(s) to be listed:	AOC AG274QG
Date which the certified product listing should appear on the VESA site(s) [DD/MM/YYYY]	22/02/2021
Product URL to be hyperlinked to the certified product listing (if known)	https://aoc.com/home.html
<i>In order to be listed, the company must be a current member of VESA and have executed a Trademark License Agreement.</i>	



Test Equipment for Display HDR

Model Name	Type	Manufacture	Comment
CA-310	Spectroradiometer	Konica Minolta	Last date of calibration: NOV. 17, 2020
K10-A	Light Measurement Device	Klein	
Intel UHD Graphics 630	Graphcis Card	Intel	Driver Ver. 27.20.100.9168
Windows 10x64	System OS	Microsoft	Ver 20H2 ,Build 19042
DPM Tool	Pattern tool	VESA	Ver 1.10

Summary of Test Result

Test ID	DP	HDMI1	HDMI2
5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Pass	Pass
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Pass	Pass
5.1.3 Minimum-white Luminance– Full-screen Long - duration Test	Pass	Pass	Pass
5.2.1 Dual Corner Box Test– Black-level Test	Pass	Pass	Pass
5.2.2 Checkerboard tests– Black-level Test	Pass	Pass	Pass
6.1 Color Gamut Specifications	Pass	Pass	Pass
7.1 Bit-depth Specification	Pass	Pass	Pass
8.3 Rise-time	Pass	Pass	Pass
9.3 Luminance and White Point Accuracy	Pass	Pass	Pass

Project ID: MOR-AOC-VSH-127
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Test Results-HDR 600 Port : DP 2560x1440 60 Hz RGB

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance- 10% Center Patch Test	Pass	Minimum of all samples: 678.14 nits Maximum range between high and low <10% : 1.1% Detailed Measured Value <table border="1" data-bbox="791 607 1123 1122"> <tr><td>1</td><td>683.08</td><td>16</td><td>684.88</td></tr> <tr><td>2</td><td>678.14</td><td>17</td><td>684.92</td></tr> <tr><td>3</td><td>678.69</td><td>18</td><td>685.02</td></tr> <tr><td>4</td><td>679.66</td><td>19</td><td>685.02</td></tr> <tr><td>5</td><td>680.47</td><td>20</td><td>685.08</td></tr> <tr><td>6</td><td>681.29</td><td>21</td><td>685.15</td></tr> <tr><td>7</td><td>682.05</td><td>22</td><td>685.22</td></tr> <tr><td>8</td><td>682.63</td><td>23</td><td>685.22</td></tr> <tr><td>9</td><td>683.17</td><td>24</td><td>685.22</td></tr> <tr><td>10</td><td>683.59</td><td>25</td><td>685.25</td></tr> <tr><td>11</td><td>683.93</td><td>26</td><td>685.24</td></tr> <tr><td>12</td><td>684.24</td><td>27</td><td>685.25</td></tr> <tr><td>13</td><td>684.48</td><td>28</td><td>685.23</td></tr> <tr><td>14</td><td>684.58</td><td>29</td><td>685.30</td></tr> <tr><td>15</td><td>684.71</td><td>30</td><td>685.24</td></tr> </table> Criteria: Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.	1	683.08	16	684.88	2	678.14	17	684.92	3	678.69	18	685.02	4	679.66	19	685.02	5	680.47	20	685.08	6	681.29	21	685.15	7	682.05	22	685.22	8	682.63	23	685.22	9	683.17	24	685.22	10	683.59	25	685.25	11	683.93	26	685.24	12	684.24	27	685.25	13	684.48	28	685.23	14	684.58	29	685.30	15	684.71	30	685.24
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5.1.2 Minimum-white Luminance- Full-screen Flash Test	Pass	Minimum of all samples: 683.93 nits Detailed Measured Value <table border="1" data-bbox="791 1429 948 1599"> <tr><td>1</td><td>685.58</td></tr> <tr><td>2</td><td>684.44</td></tr> <tr><td>3</td><td>684.28</td></tr> <tr><td>4</td><td>683.93</td></tr> <tr><td>5</td><td>684.33</td></tr> </table> Criteria: Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.	1	685.58	2	684.44	3	684.28	4	683.93	5	684.33																																																		
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5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: 494.29 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 506 1123 1021"> <tr><td>1</td><td>684.40</td><td>16</td><td>494.29</td></tr> <tr><td>2</td><td>497.48</td><td>17</td><td>497.55</td></tr> <tr><td>3</td><td>497.11</td><td>18</td><td>501.93</td></tr> <tr><td>4</td><td>499.32</td><td>19</td><td>495.76</td></tr> <tr><td>5</td><td>502.15</td><td>20</td><td>497.12</td></tr> <tr><td>6</td><td>494.41</td><td>21</td><td>499.29</td></tr> <tr><td>7</td><td>498.25</td><td>22</td><td>502.69</td></tr> <tr><td>8</td><td>502.09</td><td>23</td><td>494.60</td></tr> <tr><td>9</td><td>494.35</td><td>24</td><td>498.20</td></tr> <tr><td>10</td><td>496.78</td><td>25</td><td>502.58</td></tr> <tr><td>11</td><td>499.65</td><td>26</td><td>495.40</td></tr> <tr><td>12</td><td>498.51</td><td>27</td><td>497.47</td></tr> <tr><td>13</td><td>495.68</td><td>28</td><td>499.61</td></tr> <tr><td>14</td><td>498.90</td><td>29</td><td>501.55</td></tr> <tr><td>15</td><td>502.27</td><td>30</td><td>495.50</td></tr> </table> <p>Criteria: Please refer to P.32 of VESA display HDR CTS Ver 1.1 for details.</p>	1	684.40	16	494.29	2	497.48	17	497.55	3	497.11	18	501.93	4	499.32	19	495.76	5	502.15	20	497.12	6	494.41	21	499.29	7	498.25	22	502.69	8	502.09	23	494.60	9	494.35	24	498.20	10	496.78	25	502.58	11	499.65	26	495.40	12	498.51	27	497.47	13	495.68	28	499.61	14	498.90	29	501.55	15	502.27	30	495.50
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5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: 0.0178 nits White corners value: 600.50 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="831 1361 1075 1464"> <tr><td>Center</td><td>0.0178</td></tr> <tr><td>Left</td><td>600.50</td></tr> <tr><td>Right</td><td>638.91</td></tr> </table> <p>Criteria: Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0178	Left	600.50	Right	638.91																																																						
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5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m2 : 13.69</p> <p>Active Dimming Stops Required at 5 cd/m2 : 16.15</p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m2 :</p> <table border="1"> <tr><td>Top White</td><td>53.06</td></tr> <tr><td>Bottom White</td><td>50.13</td></tr> <tr><td>Top Black</td><td>0.0523</td></tr> <tr><td>Bottom Black</td><td>0.0511</td></tr> </table> <p>Active Dimming at 5 cd/m2 :</p> <table border="1"> <tr><td>Top White</td><td>5.35</td></tr> <tr><td>Bottom White</td><td>5.17</td></tr> <tr><td>Top Black</td><td>0.0099</td></tr> <tr><td>Bottom Black</td><td>0.0089</td></tr> </table> <p>Criteria: Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	53.06	Bottom White	50.13	Top Black	0.0523	Bottom Black	0.0511	Top White	5.35	Bottom White	5.17	Top Black	0.0099	Bottom Black	0.0089												
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Bottom Black	0.0089																													
6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: 674.3 nits BT.709 Coverage u'v' : 100.00% DCI-P3 Coverage u'v' : 97.37%</p> <table border="1"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6844</td><td>0.3012</td><td>140.03</td></tr> <tr><td>Green</td><td>0.2736</td><td>0.6782</td><td>485.40</td></tr> <tr><td>Blue</td><td>0.1482</td><td>0.0499</td><td>48.87</td></tr> </tbody> </table> <table border="1"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.52189</td><td>0.51678</td></tr> <tr><td>Green</td><td>0.10333</td><td>0.57631</td></tr> <tr><td>Blue</td><td>0.17951</td><td>0.13599</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: 548.5 nits BT.709 Coverage u'v' : 99.22% DCI-P3 Coverage u'v' : 92.57%</p>		x	y	Luminance	Red	0.6844	0.3012	140.03	Green	0.2736	0.6782	485.40	Blue	0.1482	0.0499	48.87		u'	v'	Red	0.52189	0.51678	Green	0.10333	0.57631	Blue	0.17951	0.13599
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6.1 Color Gamut Specifications		<p>Full Screen Color detail value</p> <table border="1" data-bbox="791 439 1251 577"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6847</td> <td>0.3011</td> <td>137.75</td> </tr> <tr> <td>Green</td> <td>0.2951</td> <td>0.6504</td> <td>372.69</td> </tr> <tr> <td>Blue</td> <td>0.1530</td> <td>0.0532</td> <td>38.08</td> </tr> </tbody> </table> <table border="1" data-bbox="791 577 1123 714"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.52229</td> <td>0.51678</td> </tr> <tr> <td>Green</td> <td>0.11556</td> <td>0.57306</td> </tr> <tr> <td>Blue</td> <td>0.18365</td> <td>0.14368</td> </tr> </tbody> </table> <p>Please refer to P.9 of report for coverage picture.</p> <p>Criteria: Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6847	0.3011	137.75	Green	0.2951	0.6504	372.69	Blue	0.1530	0.0532	38.08		u'	v'	Red	0.52229	0.51678	Green	0.11556	0.57306	Blue	0.18365	0.14368
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) 8+2 bits</p> <p>Criteria: Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): 16 ms Measuring 5 sequential rises.</p> <table border="1" data-bbox="831 1503 991 1675"> <tbody> <tr><td>1</td><td>13</td></tr> <tr><td>2</td><td>16</td></tr> <tr><td>3</td><td>16</td></tr> <tr><td>4</td><td>13</td></tr> <tr><td>5</td><td>13</td></tr> </tbody> </table> <p>Criteria: Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	13	2	16	3	16	4	13	5	13																		
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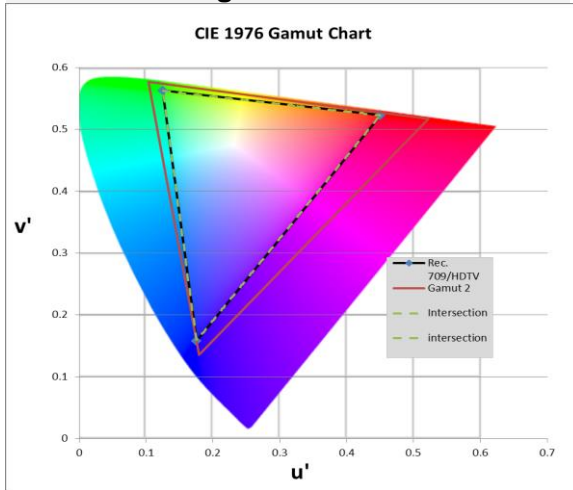


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p>Delta-ITP Value</p> <table border="1" data-bbox="793 436 1075 676"> <tr><td>5.172 cd/m2</td><td>6.3</td></tr> <tr><td>14.958 cd/m2</td><td>5.7</td></tr> <tr><td>50.825 cd/m2</td><td>5.8</td></tr> <tr><td>100.23 cd/m2</td><td>6.1</td></tr> <tr><td>199.15 cd/m2</td><td>6.4</td></tr> <tr><td>50% of Tier Level Maximum</td><td>6.42</td></tr> </table> <p>Detailed Measured Value</p> <table border="1" data-bbox="793 741 1165 981"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.3063</td><td>0.3168</td><td>5.70</td></tr> <tr><td>0.3054</td><td>0.3163</td><td>15.83</td></tr> <tr><td>0.3051</td><td>0.3161</td><td>52.70</td></tr> <tr><td>0.3050</td><td>0.3161</td><td>104.05</td></tr> <tr><td>0.3049</td><td>0.3161</td><td>206.73</td></tr> <tr><td>0.3047</td><td>0.3159</td><td>309.42</td></tr> </tbody> </table> <p>Criteria: Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	6.3	14.958 cd/m2	5.7	50.825 cd/m2	5.8	100.23 cd/m2	6.1	199.15 cd/m2	6.4	50% of Tier Level Maximum	6.42	x	y	Y	0.3063	0.3168	5.70	0.3054	0.3163	15.83	0.3051	0.3161	52.70	0.3050	0.3161	104.05	0.3049	0.3161	206.73	0.3047	0.3159	309.42
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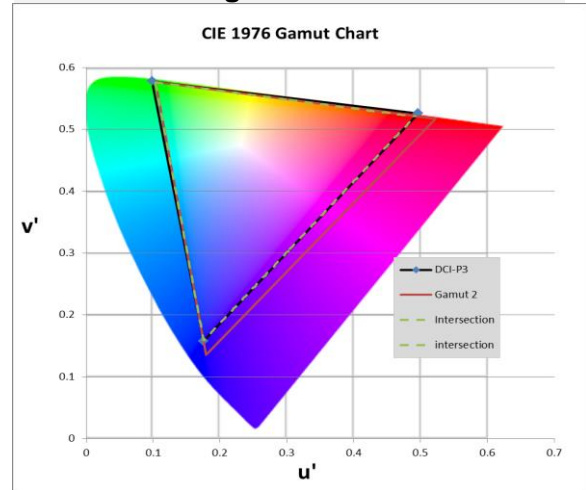


DP

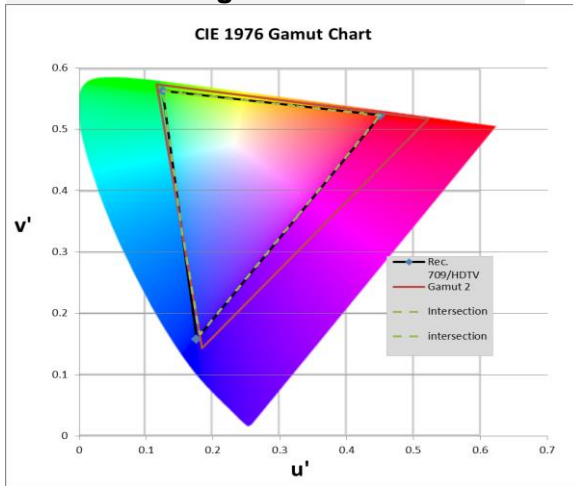
BT.709 Coverage u'v' for the 10% Patch



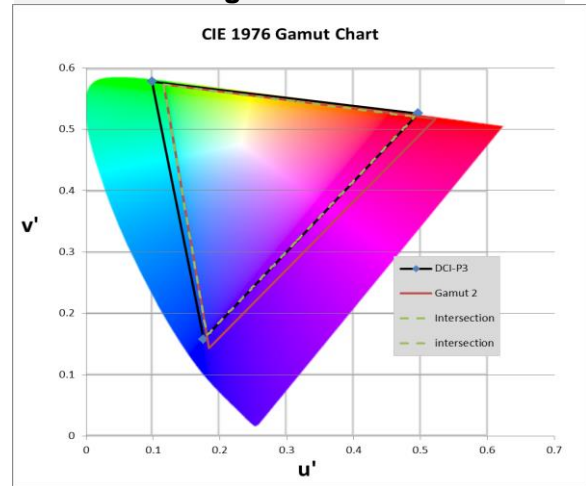
DCI-P3 Coverage u'v' for the 10% Patch



BT.709 Coverage u'v' for Full screen



DCI-P3 Coverage u'v' for Full screen





Test Results-HDR 600 Port : HDMI1 2560x1440 60 Hz RGB

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5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Minimum of all samples: 676.84 nits Maximum range between high and low <10% : 1.1% Detailed Measured Value <table border="1" data-bbox="794 611 1123 1126"> <tr><td>1</td><td>677.13</td><td>16</td><td>683.18</td></tr> <tr><td>2</td><td>676.84</td><td>17</td><td>683.36</td></tr> <tr><td>3</td><td>677.61</td><td>18</td><td>683.43</td></tr> <tr><td>4</td><td>678.44</td><td>19</td><td>683.53</td></tr> <tr><td>5</td><td>679.26</td><td>20</td><td>683.64</td></tr> <tr><td>6</td><td>679.99</td><td>21</td><td>683.68</td></tr> <tr><td>7</td><td>680.59</td><td>22</td><td>683.73</td></tr> <tr><td>8</td><td>681.09</td><td>23</td><td>683.82</td></tr> <tr><td>9</td><td>681.60</td><td>24</td><td>683.82</td></tr> <tr><td>10</td><td>681.88</td><td>25</td><td>683.90</td></tr> <tr><td>11</td><td>682.24</td><td>26</td><td>683.94</td></tr> <tr><td>12</td><td>682.55</td><td>27</td><td>683.93</td></tr> <tr><td>13</td><td>682.81</td><td>28</td><td>684.01</td></tr> <tr><td>14</td><td>682.96</td><td>29</td><td>684.01</td></tr> <tr><td>15</td><td>683.13</td><td>30</td><td>684.07</td></tr> </table> <p>Criteria: Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	677.13	16	683.18	2	676.84	17	683.36	3	677.61	18	683.43	4	678.44	19	683.53	5	679.26	20	683.64	6	679.99	21	683.68	7	680.59	22	683.73	8	681.09	23	683.82	9	681.60	24	683.82	10	681.88	25	683.90	11	682.24	26	683.94	12	682.55	27	683.93	13	682.81	28	684.01	14	682.96	29	684.01	15	683.13	30	684.07
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10	681.88	25	683.90																																																											
11	682.24	26	683.94																																																											
12	682.55	27	683.93																																																											
13	682.81	28	684.01																																																											
14	682.96	29	684.01																																																											
15	683.13	30	684.07																																																											
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Minimum of all samples: 681.65 nits Detailed Measured Value <table border="1" data-bbox="794 1429 948 1603"> <tr><td>1</td><td>681.65</td></tr> <tr><td>2</td><td>683.37</td></tr> <tr><td>3</td><td>682.81</td></tr> <tr><td>4</td><td>683.42</td></tr> <tr><td>5</td><td>683.02</td></tr> </table> <p>Criteria: Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	681.65	2	683.37	3	682.81	4	683.42	5	683.02																																																		
1	681.65																																																													
2	683.37																																																													
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4	683.42																																																													
5	683.02																																																													



ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	Minimum of all samples: 495.95 nits Detailed Measured Value <table border="1" data-bbox="794 506 1123 1021"> <tr><td>1</td><td>662.22</td><td>16</td><td>497.64</td></tr> <tr><td>2</td><td>497.24</td><td>17</td><td>496.27</td></tr> <tr><td>3</td><td>498.19</td><td>18</td><td>496.21</td></tr> <tr><td>4</td><td>498.27</td><td>19</td><td>497.83</td></tr> <tr><td>5</td><td>499.88</td><td>20</td><td>498.39</td></tr> <tr><td>6</td><td>501.33</td><td>21</td><td>498.64</td></tr> <tr><td>7</td><td>499.45</td><td>22</td><td>500.59</td></tr> <tr><td>8</td><td>496.49</td><td>23</td><td>501.79</td></tr> <tr><td>9</td><td>495.95</td><td>24</td><td>500.20</td></tr> <tr><td>10</td><td>496.12</td><td>25</td><td>497.17</td></tr> <tr><td>11</td><td>497.87</td><td>26</td><td>496.54</td></tr> <tr><td>12</td><td>498.04</td><td>27</td><td>497.26</td></tr> <tr><td>13</td><td>499.39</td><td>28</td><td>498.66</td></tr> <tr><td>14</td><td>501.23</td><td>29</td><td>498.78</td></tr> <tr><td>15</td><td>500.76</td><td>30</td><td>499.97</td></tr> </table> <p>Criteria: Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	662.22	16	497.64	2	497.24	17	496.27	3	498.19	18	496.21	4	498.27	19	497.83	5	499.88	20	498.39	6	501.33	21	498.64	7	499.45	22	500.59	8	496.49	23	501.79	9	495.95	24	500.20	10	496.12	25	497.17	11	497.87	26	496.54	12	498.04	27	497.26	13	499.39	28	498.66	14	501.23	29	498.78	15	500.76	30	499.97
1	662.22	16	497.64																																																											
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5.2.1 Dual Corner Box Test Black-level Test	Pass	Screen center value: 0.0181 nits White corners value: 588.69 nits Detailed Measured Value <table border="1" data-bbox="831 1361 1075 1464"> <tr><td>Center</td><td>0.0181</td></tr> <tr><td>Left</td><td>588.69</td></tr> <tr><td>Right</td><td>633.37</td></tr> </table> <p>Criteria: Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0181	Left	588.69	Right	633.37																																																						
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Left	588.69																																																													
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ID	Pass / Fail	Comment or Value																												
5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m² : 13.77</p> <p>Active Dimming Stops Required at 5 cd/m² : 16.07</p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m² :</p> <table border="1" data-bbox="793 640 1075 779"> <tr><td>Top White</td><td>52.35</td></tr> <tr><td>Bottom White</td><td>50.32</td></tr> <tr><td>Top Black</td><td>0.0494</td></tr> <tr><td>Bottom Black</td><td>0.0480</td></tr> </table> <p>Active Dimming at 5 cd/m² :</p> <table border="1" data-bbox="793 846 1075 985"> <tr><td>Top White</td><td>5.44</td></tr> <tr><td>Bottom White</td><td>5.24</td></tr> <tr><td>Top Black</td><td>0.0102</td></tr> <tr><td>Bottom Black</td><td>0.0096</td></tr> </table> <p>Criteria: Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	52.35	Bottom White	50.32	Top Black	0.0494	Bottom Black	0.0480	Top White	5.44	Bottom White	5.24	Top Black	0.0102	Bottom Black	0.0096												
Top White	52.35																													
Bottom White	50.32																													
Top Black	0.0494																													
Bottom Black	0.0480																													
Top White	5.44																													
Bottom White	5.24																													
Top Black	0.0102																													
Bottom Black	0.0096																													
6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: 688.7 nits BT.709 Coverage u'v' : 100.00% DCI-P3 Coverage u'v' : 97.65%</p> <table border="1" data-bbox="793 1323 1252 1462"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6846</td><td>0.3009</td><td>139.97</td></tr> <tr><td>Green</td><td>0.2712</td><td>0.6806</td><td>499.57</td></tr> <tr><td>Blue</td><td>0.1483</td><td>0.0498</td><td>49.20</td></tr> </tbody> </table> <table border="1" data-bbox="793 1462 1123 1601"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.52244</td><td>0.51666</td></tr> <tr><td>Green</td><td>0.10210</td><td>0.57652</td></tr> <tr><td>Blue</td><td>0.17970</td><td>0.13578</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: 556.7 nits BT.709 Coverage u'v' : 99.37% DCI-P3 Coverage u'v' : 93.10%</p>		x	y	Luminance	Red	0.6846	0.3009	139.97	Green	0.2712	0.6806	499.57	Blue	0.1483	0.0498	49.20		u'	v'	Red	0.52244	0.51666	Green	0.10210	0.57652	Blue	0.17970	0.13578
	x	y	Luminance																											
Red	0.6846	0.3009	139.97																											
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ID	Pass / Fail	Comment or Value																												
6.1 Color Gamut Specifications		<p>Full Screen Color detail value</p> <table border="1" data-bbox="791 439 1251 577"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6847</td> <td>0.3010</td> <td>138.26</td> </tr> <tr> <td>Green</td> <td>0.2923</td> <td>0.6538</td> <td>380.19</td> </tr> <tr> <td>Blue</td> <td>0.1527</td> <td>0.0529</td> <td>38.23</td> </tr> </tbody> </table> <table border="1" data-bbox="791 577 1123 714"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.52241</td> <td>0.51673</td> </tr> <tr> <td>Green</td> <td>0.11395</td> <td>0.57345</td> </tr> <tr> <td>Blue</td> <td>0.18346</td> <td>0.14300</td> </tr> </tbody> </table> <p>Please refer to P.15 of report for coverage picture.</p> <p>Criteria: Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6847	0.3010	138.26	Green	0.2923	0.6538	380.19	Blue	0.1527	0.0529	38.23		u'	v'	Red	0.52241	0.51673	Green	0.11395	0.57345	Blue	0.18346	0.14300
	x	y	Luminance																											
Red	0.6847	0.3010	138.26																											
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Blue	0.18346	0.14300																												
7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) 8+2 bits</p> <p>Criteria: Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): 16 ms Measuring 5 sequential rises.</p> <table border="1" data-bbox="831 1503 991 1675"> <tbody> <tr><td>1</td><td>16</td></tr> <tr><td>2</td><td>13</td></tr> <tr><td>3</td><td>13</td></tr> <tr><td>4</td><td>13</td></tr> <tr><td>5</td><td>13</td></tr> </tbody> </table> <p>Criteria: Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	16	2	13	3	13	4	13	5	13																		
1	16																													
2	13																													
3	13																													
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5	13																													

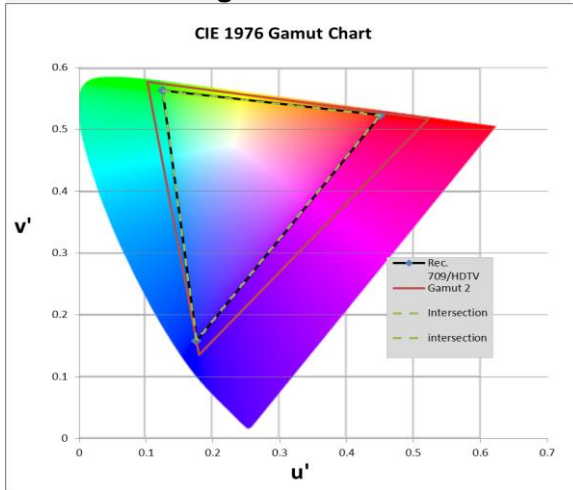


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p>Delta-ITP Value</p> <table border="1" data-bbox="791 434 1075 674"> <tr><td>5.172 cd/m2</td><td>4.5</td></tr> <tr><td>14.958 cd/m2</td><td>4.5</td></tr> <tr><td>50.825 cd/m2</td><td>4.6</td></tr> <tr><td>100.23 cd/m2</td><td>5.2</td></tr> <tr><td>199.15 cd/m2</td><td>5.4</td></tr> <tr><td>50% of Tier Level Maximum</td><td>5.61</td></tr> </table> <p>Detailed Measured Value</p> <table border="1" data-bbox="791 741 1163 981"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.3064</td><td>0.3178</td><td>5.48</td></tr> <tr><td>0.3067</td><td>0.3176</td><td>15.50</td></tr> <tr><td>0.3062</td><td>0.3178</td><td>51.83</td></tr> <tr><td>0.3056</td><td>0.3174</td><td>102.54</td></tr> <tr><td>0.3055</td><td>0.3175</td><td>203.42</td></tr> <tr><td>0.3052</td><td>0.3173</td><td>306.07</td></tr> </tbody> </table> <p>Criteria: Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	4.5	14.958 cd/m2	4.5	50.825 cd/m2	4.6	100.23 cd/m2	5.2	199.15 cd/m2	5.4	50% of Tier Level Maximum	5.61	x	y	Y	0.3064	0.3178	5.48	0.3067	0.3176	15.50	0.3062	0.3178	51.83	0.3056	0.3174	102.54	0.3055	0.3175	203.42	0.3052	0.3173	306.07
5.172 cd/m2	4.5																																		
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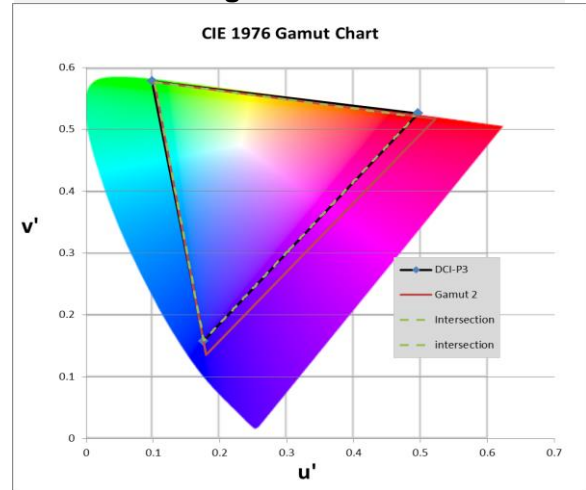


HDMI1

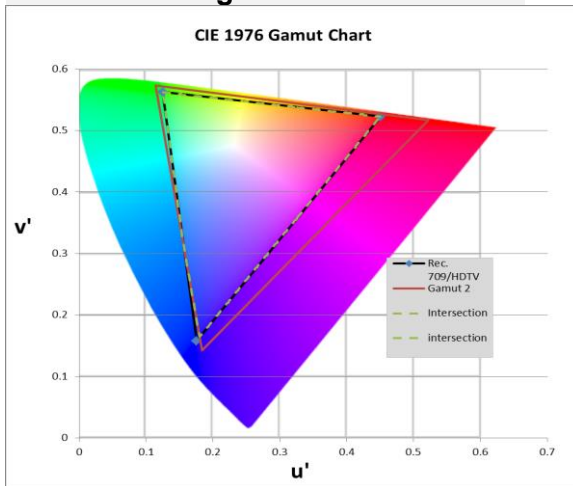
BT.709 Coverage u'v' for the 10% Patch



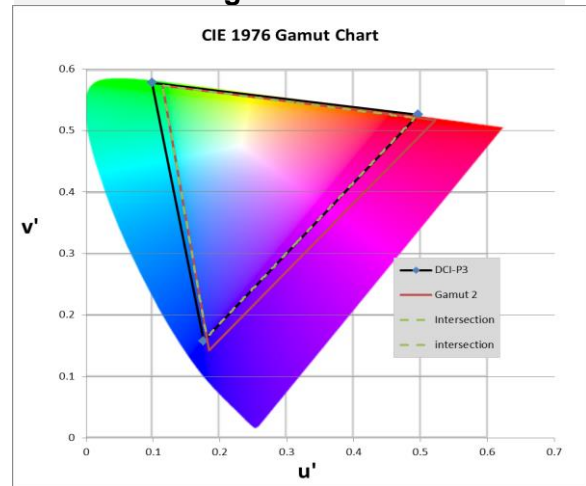
DCI-P3 Coverage u'v' for the 10% Patch



BT.709 Coverage u'v' for Full screen



DCI-P3 Coverage u'v' for Full screen





Test Results-HDR 600 Port : HDMI2 2560x1440 60 Hz RGB

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Minimum of all samples: 685.71 nits Maximum range between high and low <10% : 0.7% Detailed Measured Value <table border="1" data-bbox="794 611 1123 1126"> <tr><td>1</td><td>690.21</td><td>16</td><td>686.36</td></tr> <tr><td>2</td><td>685.83</td><td>17</td><td>686.36</td></tr> <tr><td>3</td><td>685.71</td><td>18</td><td>686.37</td></tr> <tr><td>4</td><td>685.90</td><td>19</td><td>686.28</td></tr> <tr><td>5</td><td>686.04</td><td>20</td><td>686.27</td></tr> <tr><td>6</td><td>686.14</td><td>21</td><td>686.25</td></tr> <tr><td>7</td><td>686.25</td><td>22</td><td>686.19</td></tr> <tr><td>8</td><td>686.35</td><td>23</td><td>686.17</td></tr> <tr><td>9</td><td>686.43</td><td>24</td><td>686.08</td></tr> <tr><td>10</td><td>686.48</td><td>25</td><td>686.07</td></tr> <tr><td>11</td><td>686.47</td><td>26</td><td>686.01</td></tr> <tr><td>12</td><td>686.49</td><td>27</td><td>685.99</td></tr> <tr><td>13</td><td>686.53</td><td>28</td><td>685.98</td></tr> <tr><td>14</td><td>686.44</td><td>29</td><td>686.01</td></tr> <tr><td>15</td><td>686.41</td><td>30</td><td>686.00</td></tr> </table> <p>Criteria: Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	690.21	16	686.36	2	685.83	17	686.36	3	685.71	18	686.37	4	685.90	19	686.28	5	686.04	20	686.27	6	686.14	21	686.25	7	686.25	22	686.19	8	686.35	23	686.17	9	686.43	24	686.08	10	686.48	25	686.07	11	686.47	26	686.01	12	686.49	27	685.99	13	686.53	28	685.98	14	686.44	29	686.01	15	686.41	30	686.00
1	690.21	16	686.36																																																											
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15	686.41	30	686.00																																																											
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Minimum of all samples: 681.86 nits Detailed Measured Value <table border="1" data-bbox="794 1429 948 1603"> <tr><td>1</td><td>683.34</td></tr> <tr><td>2</td><td>682.14</td></tr> <tr><td>3</td><td>683.09</td></tr> <tr><td>4</td><td>683.60</td></tr> <tr><td>5</td><td>681.86</td></tr> </table> <p>Criteria: Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	683.34	2	682.14	3	683.09	4	683.60	5	681.86																																																		
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ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	Minimum of all samples: 496.71 nits Detailed Measured Value <table border="1" data-bbox="791 506 1123 1021"> <tr><td>1</td><td>654.04</td><td>16</td><td>496.71</td></tr> <tr><td>2</td><td>498.64</td><td>17</td><td>497.31</td></tr> <tr><td>3</td><td>497.14</td><td>18</td><td>498.57</td></tr> <tr><td>4</td><td>496.87</td><td>19</td><td>498.83</td></tr> <tr><td>5</td><td>498.36</td><td>20</td><td>499.92</td></tr> <tr><td>6</td><td>498.72</td><td>21</td><td>501.92</td></tr> <tr><td>7</td><td>499.22</td><td>22</td><td>501.83</td></tr> <tr><td>8</td><td>501.36</td><td>23</td><td>498.86</td></tr> <tr><td>9</td><td>497.75</td><td>24</td><td>497.00</td></tr> <tr><td>10</td><td>498.60</td><td>25</td><td>497.00</td></tr> <tr><td>11</td><td>498.66</td><td>26</td><td>498.34</td></tr> <tr><td>12</td><td>500.16</td><td>27</td><td>498.99</td></tr> <tr><td>13</td><td>501.94</td><td>28</td><td>499.10</td></tr> <tr><td>14</td><td>500.57</td><td>29</td><td>499.41</td></tr> <tr><td>15</td><td>497.49</td><td>30</td><td>501.52</td></tr> </table> <p>Criteria: Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	654.04	16	496.71	2	498.64	17	497.31	3	497.14	18	498.57	4	496.87	19	498.83	5	498.36	20	499.92	6	498.72	21	501.92	7	499.22	22	501.83	8	501.36	23	498.86	9	497.75	24	497.00	10	498.60	25	497.00	11	498.66	26	498.34	12	500.16	27	498.99	13	501.94	28	499.10	14	500.57	29	499.41	15	497.49	30	501.52
1	654.04	16	496.71																																																											
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5.2.1 Dual Corner Box Test Black-level Test	Pass	Screen center value: 0.0179 nits White corners value: 582.90 nits Detailed Measured Value <table border="1" data-bbox="831 1361 1075 1464"> <tr><td>Center</td><td>0.0179</td></tr> <tr><td>Left</td><td>582.90</td></tr> <tr><td>Right</td><td>624.37</td></tr> </table> <p>Criteria: Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0179	Left	582.90	Right	624.37																																																						
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Right	624.37																																																													



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5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m² : 13.68</p> <p>Active Dimming Stops Required at 5 cd/m² : 16.04</p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m² :</p> <table border="1" data-bbox="791 640 1075 779"> <tr><td>Top White</td><td>54.84</td></tr> <tr><td>Bottom White</td><td>52.07</td></tr> <tr><td>Top Black</td><td>0.0533</td></tr> <tr><td>Bottom Black</td><td>0.0513</td></tr> </table> <p>Active Dimming at 5 cd/m² :</p> <table border="1" data-bbox="791 842 1075 981"> <tr><td>Top White</td><td>5.41</td></tr> <tr><td>Bottom White</td><td>5.18</td></tr> <tr><td>Top Black</td><td>0.0104</td></tr> <tr><td>Bottom Black</td><td>0.0100</td></tr> </table> <p>Criteria: Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	54.84	Bottom White	52.07	Top Black	0.0533	Bottom Black	0.0513	Top White	5.41	Bottom White	5.18	Top Black	0.0104	Bottom Black	0.0100												
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6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: 689.9 nits BT.709 Coverage u'v' : 100.00% DCI-P3 Coverage u'v' : 97.64%</p> <table border="1" data-bbox="791 1326 1251 1464"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6845</td><td>0.3010</td><td>139.90</td></tr> <tr><td>Green</td><td>0.2712</td><td>0.6805</td><td>500.33</td></tr> <tr><td>Blue</td><td>0.1483</td><td>0.0498</td><td>49.63</td></tr> </tbody> </table> <table border="1" data-bbox="791 1464 1123 1603"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.52222</td><td>0.51669</td></tr> <tr><td>Green</td><td>0.10211</td><td>0.57650</td></tr> <tr><td>Blue</td><td>0.17970</td><td>0.13578</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: 549.7 nits BT.709 Coverage u'v' : 99.28% DCI-P3 Coverage u'v' : 92.68%</p>		x	y	Luminance	Red	0.6845	0.3010	139.90	Green	0.2712	0.6805	500.33	Blue	0.1483	0.0498	49.63		u'	v'	Red	0.52222	0.51669	Green	0.10211	0.57650	Blue	0.17970	0.13578
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) 8+2 bits</p> <p>Criteria: Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): 16 ms Measuring 5 sequential rises.</p> <table border="1" data-bbox="831 1496 991 1671"> <tbody> <tr><td>1</td><td>13</td></tr> <tr><td>2</td><td>16</td></tr> <tr><td>3</td><td>16</td></tr> <tr><td>4</td><td>13</td></tr> <tr><td>5</td><td>13</td></tr> </tbody> </table> <p>Criteria: Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	13	2	16	3	16	4	13	5	13																		
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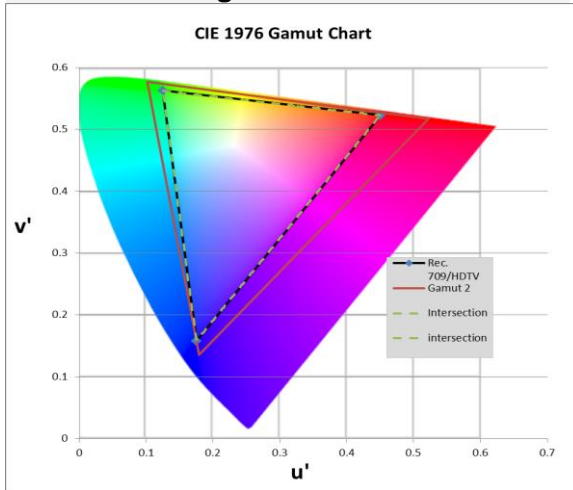


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9.3 Luminance and White Point Accuracy	Pass	<p>Delta-ITP Value</p> <table border="1" data-bbox="791 434 1075 674"> <tr><td>5.172 cd/m2</td><td>6.7</td></tr> <tr><td>14.958 cd/m2</td><td>7.3</td></tr> <tr><td>50.825 cd/m2</td><td>6.3</td></tr> <tr><td>100.23 cd/m2</td><td>7.0</td></tr> <tr><td>199.15 cd/m2</td><td>7.2</td></tr> <tr><td>50% of Tier Level Maximum</td><td>7.39</td></tr> </table> <p>Detailed Measured Value</p> <table border="1" data-bbox="791 741 1165 981"> <thead> <tr> <th>x</th> <th>y</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>0.3046</td><td>0.3147</td><td>5.70</td></tr> <tr><td>0.3051</td><td>0.3144</td><td>16.30</td></tr> <tr><td>0.3043</td><td>0.3146</td><td>52.82</td></tr> <tr><td>0.3038</td><td>0.3141</td><td>104.37</td></tr> <tr><td>0.3036</td><td>0.3142</td><td>206.81</td></tr> <tr><td>0.3033</td><td>0.3140</td><td>310.78</td></tr> </tbody> </table> <p>Criteria: Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	6.7	14.958 cd/m2	7.3	50.825 cd/m2	6.3	100.23 cd/m2	7.0	199.15 cd/m2	7.2	50% of Tier Level Maximum	7.39	x	y	Y	0.3046	0.3147	5.70	0.3051	0.3144	16.30	0.3043	0.3146	52.82	0.3038	0.3141	104.37	0.3036	0.3142	206.81	0.3033	0.3140	310.78
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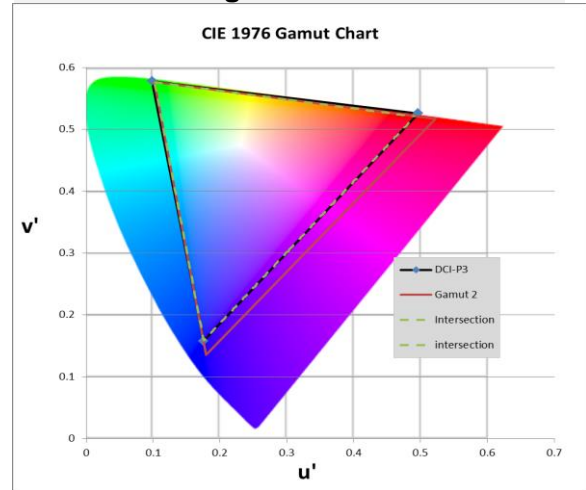


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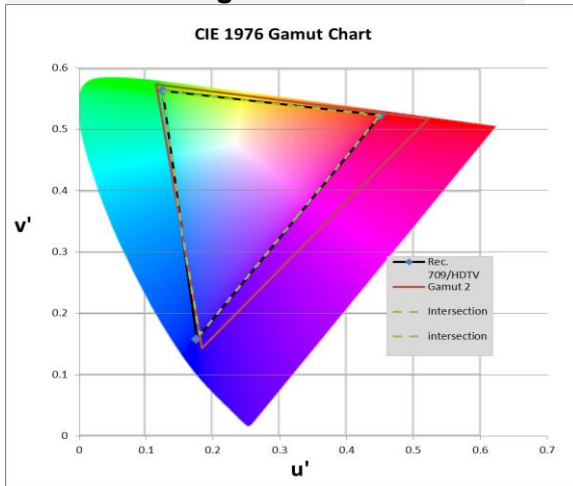
BT.709 Coverage u'v' for the 10% Patch



DCI-P3 Coverage u'v' for the 10% Patch



BT.709 Coverage u'v' for Full screen



DCI-P3 Coverage u'v' for Full screen

