

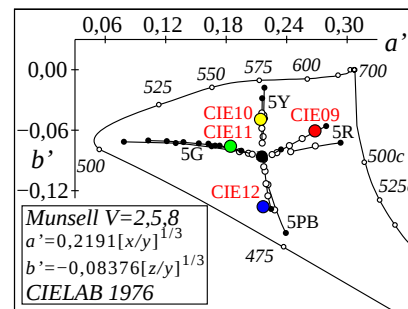
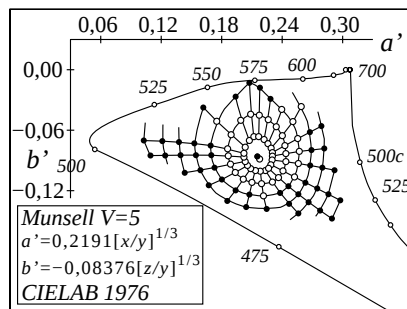
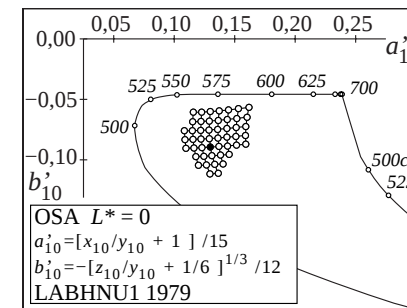
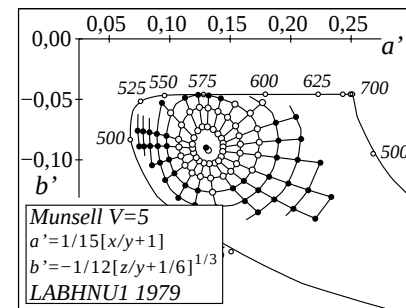
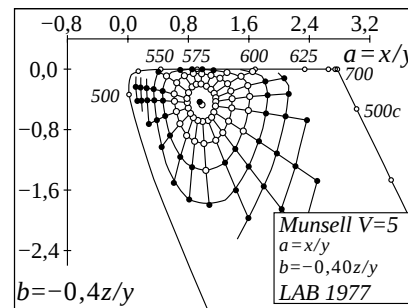
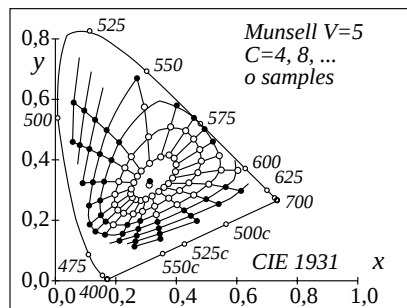
http://130.149.60.45/~farbmetrik/JE44/JE44L0NA.TXT /.PS; start output

N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D), page 1/1

See original or copy: <http://web.me.com/klaus.richter/JE44/JE44L0NA.TXT /.PS>  
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20100301-JE44/JE44L0NA.TXT /.PS  
application for measurement of printer or monitor systems

TUB material: code=rha4ta



| Higher colormetric (color data: nonlinear relation to CIE 1931 data) |                                                                                                  |                                          |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------|
| non linear color terms                                               | name and relationship with tristimulues or chromaticity values                                   | notes                                    |
| lightness                                                            | $L^* = 116 (Y / 100)^{1/3} - 16 \quad (Y > 0,8)$<br>Approximation: $L^* = 100 (Y / 100)^{1/2,4}$ | CIELAB 1976                              |
| chroma                                                               | non linear transform of chromatic values A and B                                                 |                                          |
| red-green                                                            | $a^* = 500 [ (X / X_n)^{1/3} - (Y / Y_n)^{1/3} ]$<br>$= 500 (a' - a'_n) Y^{1/3}$                 | CIELAB 1976<br>$n=D65$ (backgr.)         |
| yellow-blue                                                          | $b^* = 200 [ (Y / Y_n)^{1/3} - (Z / Z_n)^{1/3} ]$<br>$= 500 (b' - b'_n) Y^{1/3}$                 | CIELAB 1976                              |
| radial                                                               | $C^*_{ab} = [ a^{*2} + b^{*2} ]^{1/2}$                                                           |                                          |
| chromaticity                                                         | nonlinear transform of chromaticities $a=x/y$ and $b=z/y$                                        | compare to log cone excitation           |
| red-green                                                            | $a' = (1 / X_n)^{1/3} (x / y)^{1/3}$<br>$= 0,2191 (x / y)^{1/3}$ for D65                         | $\log[P / (P+D)]$<br>$= \log[L / (L+M)]$ |
| yellow-blue                                                          | $b' = -0,4 (1 / Z_n)^{1/3} (z / y)^{1/3}$<br>$= -0,08376 (z / y)^{1/3}$ for D65                  | $\log[T / (P+D)]$<br>$= \log[S / (L+M)]$ |
| radial                                                               | $c'_{ab} = [ (a' - a'_n)^2 + (b' - b'_n)^2 ]^{1/2}$                                              |                                          |

| color valence metric (color data: linear relation to CIE 1931 data) |                                                                                        |                                   |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------|
| linear color terms                                                  | name and relationship to CIE tristimulues or chromaticity values                       | notes:                            |
| luminous value                                                      | $Y = y (X + Y + Z)$                                                                    |                                   |
| chromatic value                                                     | for linear chromatic value diagram (A, B)                                              |                                   |
| red-green                                                           | $A = [ X / Y - X_n / Y_n ] Y = [ a - a_n ] Y$<br>$= [ x / y - x_n / y_n ] Y$           | $n=D65$ (backgr.)                 |
| yellow-blue                                                         | $B = -0,4 [ Z / Y - Z_n / Y_n ] Y = [ b - b_n ] Y$<br>$= -0,4 [ z / y - z_n / y_n ] Y$ |                                   |
| radial                                                              | $C_{ab} = [ A^2 + B^2 ]^{1/2}$                                                         |                                   |
| chromaticity                                                        | for (linear) chromaticity diagram (a, b)                                               | compare to linear cone excitation |
| red-green                                                           | $a = X / Y = x / y$                                                                    | $P/(P+D)=L/(L+M)$                 |
| yellow-blue                                                         | $b = -0,4 [ Z / Y ] = -0,4 [ z / y ]$                                                  | $T/(P+D)=S/(L+M)$                 |
| radial                                                              | $c_{ab} = [ (a - a_n)^2 + (b - b_n)^2 ]^{1/2}$                                         |                                   |

TUB-test chart no. JE44; Colour and chromaticity diagrams  
Munsell/OSA/CIE colours; colorimetric equations

input: *rgb setrgbcolor*  
output: no change compared to input