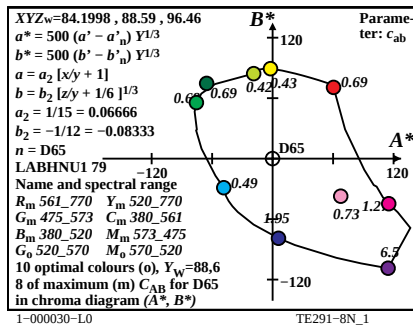
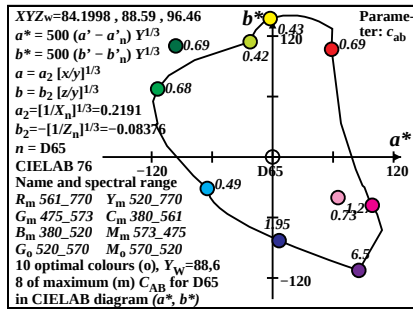
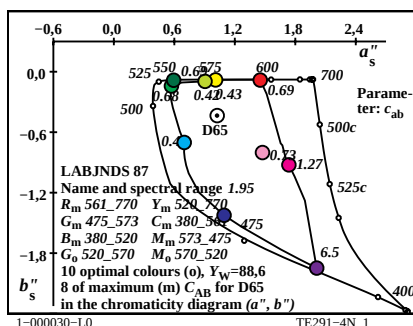
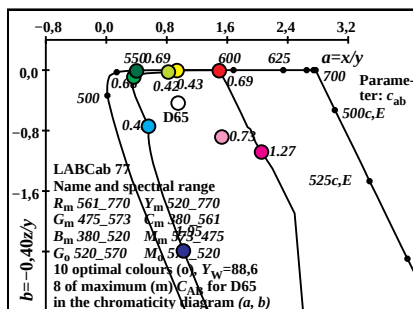
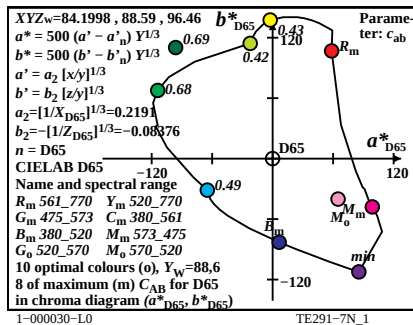
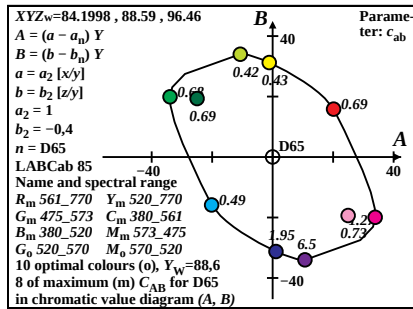
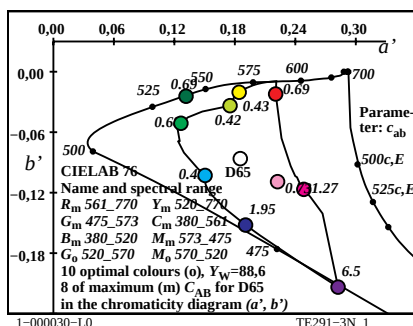
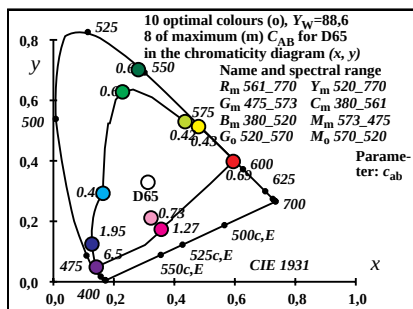


Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D65,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code              |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|-------------------|
| 0                | 405              | 32        | 561       | 32.57     | 58.2   | 108.12 | 0.1637 | 0.2926   | 0.5436           | 193.7            | 16 483 37 589 Cm  |
| 6                | 435              | 32        | 562       | 29.09     | 58.79  | 88.73  | 0.1647 | 0.3328   | 0.5023           | 178.4            | 17 486 42 610     |
| 10               | 450              | 32        | 563       | 22.93     | 59.41  | 52.37  | 0.1702 | 0.441    | 0.3887           | 141.8            | 19 496 -1 496c    |
| 12               | 460              | 33        | 565       | 20.88     | 60.32  | 34.02  | 0.1812 | 0.5234   | 0.2952           | 124.0            | 21 505 -1 505c    |
| 12               | 465              | 33        | 567       | 21.95     | 61.66  | 34.03  | 0.1866 | 0.5241   | 0.2892           | 122.8            | 21 506 -1 506c    |
| 14               | 470              | 33        | 569       | 21.47     | 62.72  | 19.98  | 0.206  | 0.602    | 0.1918           | 111.3            | 24 520 -1 520c    |
| 15               | 475              | 34        | 573       | 23.76     | 65.29  | 14.91  | 0.2285 | 0.6279   | 0.1434           | 105.6            | 25 528 -1 528c Gm |
| 16               | 480              | 36        | 580       | 29.0      | 69.95  | 11.05  | 0.2636 | 0.6358   | 0.1005           | 99.0             | 27 537 -1 537c    |
| 17               | 485              | 39        | 595       | 42.11     | 78.75  | 8.23   | 0.3261 | 0.6099   | 0.0638           | 87.2             | 29 548 -1 548c    |
| 18               | 490              | -1        | 490c      | 77.09     | 93.8   | 6.13   | 0.4354 | 0.5298   | 0.0346           | 58.5             | 33 565 11 459 max |
| 19               | 495              | -1        | 495c      | 77.04     | 92.3   | 4.52   | 0.4431 | 0.5308   | 0.026            | 57.1             | 33 566 12 462     |
| 20               | 500              | -1        | 500c      | 77.02     | 90.42  | 3.27   | 0.4511 | 0.5296   | 0.0191           | 55.3             | 33 567 12 464     |
| 22               | 510              | -1        | 510c      | 76.89     | 85.27  | 1.63   | 0.4694 | 0.5205   | 0.01             | 50.7             | 33 569 13 469     |
| 23               | 520              | -1        | 519c      | 76.66     | 81.98  | 1.16   | 0.4797 | 0.513    | 0.0072           | 47.7             | 34 570 14 471 Ym  |
| 25               | 530              | -1        | 529c      | 75.53     | 74.04  | 0.57   | 0.503  | 0.4931   | 0.0038           | 40.7             | 34 573 15 475     |
| 27               | 540              | -1        | 539c      | 73.26     | 64.9   | 0.26   | 0.5292 | 0.4688   | 0.0019           | 32.8             | 35 577 15 478     |
| 28               | 545              | -1        | 544c      | 71.66     | 60.13  | 0.18   | 0.5429 | 0.4556   | 0.0014           | 28.7             | 35 579 15 479     |
| 29               | 550              | -1        | 549c      | 69.7      | 55.26  | 0.13   | 0.5571 | 0.4417   | 0.001            | 24.7             | 36 582 16 480     |
| 30               | 555              | -1        | 554c      | 67.4      | 50.4   | 0.09   | 0.5716 | 0.4274   | 0.0008           | 20.8             | 36 584 16 481     |
| 32               | 560              | -1        | 560c      | 61.78     | 41.0   | 0.05   | 0.6007 | 0.3987   | 0.0005           | 13.6             | 37 589 16 483     |
| 32               | 561              | 0         | 405       | 62.46     | 41.79  | 0.76   | 0.5948 | 0.3979   | 0.0072           | 13.7             | 37 589 16 483 Rm  |
| 32               | 562              | 6         | 435       | 65.95     | 41.2   | 20.15  | 0.518  | 0.3236   | 0.1583           | 358.4            | 42 610 17 486     |
| 32               | 563              | 10        | 450       | 72.11     | 40.58  | 56.51  | 0.4261 | 0.2398   | 0.3339           | 321.8            | -1 496c 19 496    |
| 33               | 565              | 12        | 460       | 74.16     | 39.67  | 74.86  | 0.393  | 0.2102   | 0.3967           | 304.0            | -1 505c 21 505    |
| 33               | 567              | 12        | 465       | 73.08     | 38.33  | 74.86  | 0.3923 | 0.2057   | 0.4018           | 302.9            | -1 506c 21 506    |
| 33               | 569              | 14        | 470       | 73.57     | 37.27  | 88.9   | 0.3683 | 0.1865   | 0.445            | 291.3            | -1 520c 24 520    |
| 34               | 573              | 15        | 475       | 71.27     | 34.7   | 93.97  | 0.3564 | 0.1735   | 0.4699           | 285.7            | -1 528c 25 528 Mm |
| 36               | 580              | 16        | 480       | 66.03     | 30.04  | 97.83  | 0.3405 | 0.1549   | 0.5045           | 279.1            | -1 537c 27 537    |
| 39               | 595              | 17        | 485       | 52.92     | 21.24  | 100.65 | 0.3027 | 0.1215   | 0.5757           | 267.2            | -1 548c 29 548    |
| -1               | 490c             | 18        | 490       | 17.95     | 6.19   | 102.75 | 0.1414 | 0.0487   | 0.8097           | 238.5            | 11 459 33 565 min |
| -1               | 495c             | 19        | 495       | 18.0      | 7.69   | 104.36 | 0.1384 | 0.0591   | 0.8024           | 237.1            | 12 462 33 566     |
| -1               | 500c             | 20        | 500       | 18.02     | 9.57   | 105.61 | 0.1352 | 0.0719   | 0.7928           | 235.4            | 12 464 33 567     |
| -1               | 510c             | 22        | 510       | 18.14     | 14.72  | 107.25 | 0.1295 | 0.105    | 0.7654           | 230.7            | 13 469 33 569     |
| -1               | 519c             | 23        | 520       | 18.37     | 18.01  | 107.72 | 0.1275 | 0.1249   | 0.7475           | 227.7            | 14 471 34 570 Bm  |
| -1               | 529c             | 25        | 530       | 19.5      | 25.95  | 108.31 | 0.1268 | 0.1687   | 0.7043           | 220.7            | 15 475 34 573     |
| -1               | 539c             | 27        | 540       | 21.77     | 35.09  | 108.62 | 0.1315 | 0.212    | 0.6563           | 212.8            | 15 478 35 577     |
| -1               | 544c             | 28        | 545       | 23.38     | 39.86  | 108.7  | 0.1359 | 0.2318   | 0.6321           | 208.8            | 15 479 35 579     |
| -1               | 549c             | 29        | 550       | 25.33     | 44.73  | 108.76 | 0.1416 | 0.2501   | 0.6081           | 204.7            | 16 480 36 582     |
| -1               | 554c             | 30        | 555       | 27.63     | 49.59  | 108.79 | 0.1485 | 0.2665   | 0.5848           | 200.8            | 16 481 36 584     |
| -1               | 560c             | 32        | 560       | 33.26     | 58.99  | 108.83 | 0.1654 | 0.2933   | 0.5412           | 193.6            | 16 483 37 589     |
| 380              | 770              | 95.04     | 100.0     | 108.89    | 0.3127 | 0.329  | 0.3582 | 0.0      |                  |                  |                   |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, D65,  $Y_w=88,6$ , Parameter:  $c_{ab}$

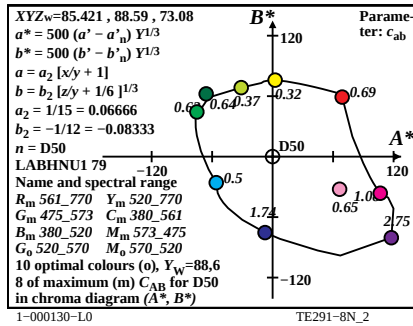
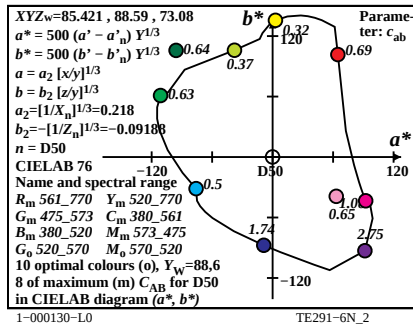
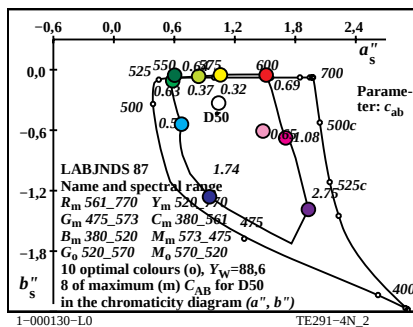
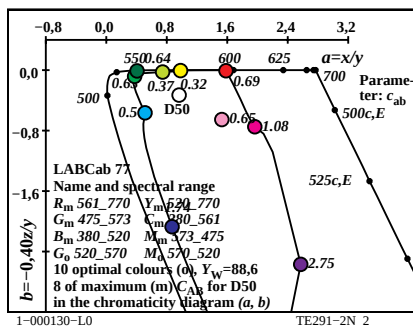
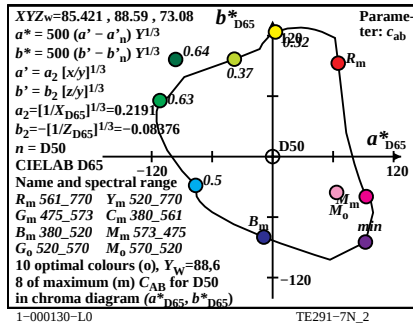
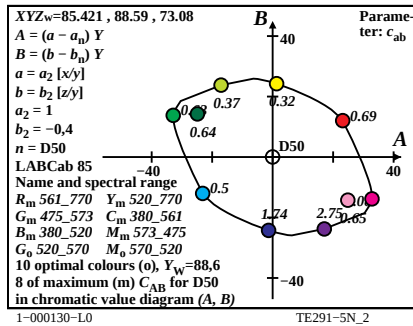
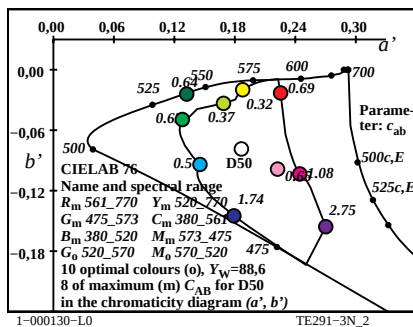
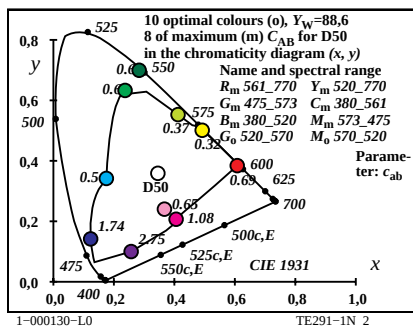


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D50,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 564           | 29.62     | 57.81     | 81.6      | 0.1752 | 0.3419 | 0.4827 | 185.5    | 17 486           | 38 592           | Cm   |
| 7 435            | 33 565           | 26.33     | 58.18     | 63.49     | 0.1779 | 0.393  | 0.4289 | 168.3    | 18 490           | 46 634           |      |
| 10 450           | 33 566           | 23.03     | 58.68     | 42.47     | 0.1854 | 0.4725 | 0.342  | 144.5    | 19 497           | -1 497c          |      |
| 12 460           | 33 567           | 21.47     | 59.3      | 28.27     | 0.1969 | 0.5437 | 0.2592 | 128.7    | 21 506           | -1 506c          |      |
| 13 465           | 33 568           | 21.31     | 59.95     | 22.16     | 0.206  | 0.5796 | 0.2143 | 122.2    | 22 511           | -1 511c          |      |
| 14 470           | 34 570           | 21.86     | 61.04     | 17.05     | 0.2187 | 0.6106 | 0.1706 | 116.7    | 23 519           | -1 519c          |      |
| 15 475           | 34 573           | 23.55     | 62.89     | 12.91     | 0.237  | 0.6329 | 0.1299 | 111.5    | 25 527           | -1 527c          | Gm   |
| 15 480           | 35 578           | 27.61     | 66.91     | 12.92     | 0.2569 | 0.6227 | 0.1202 | 108.5    | 26 531           | -1 531c          |      |
| 17 485           | 37 587           | 35.32     | 72.24     | 7.33      | 0.3074 | 0.6287 | 0.0637 | 98.0     | 28 544           | -1 544c          |      |
| 18 490           | 44 620           | 65.61     | 88.02     | 5.54      | 0.4122 | 0.5529 | 0.0348 | 71.0     | 32 561           | -1 561c          | max  |
| 19 495           | -1 495c          | 83.11     | 93.65     | 4.13      | 0.4594 | 0.5177 | 0.0228 | 54.4     | 33 568           | 12 463           |      |
| 20 500           | -1 500c          | 83.09     | 91.98     | 3.02      | 0.4665 | 0.5164 | 0.0169 | 52.5     | 33 569           | 13 466           |      |
| 22 510           | -1 510c          | 82.98     | 87.33     | 1.55      | 0.4827 | 0.5081 | 0.009  | 47.4     | 34 571           | 14 471           |      |
| 23 520           | -1 519c          | 82.76     | 84.29     | 1.11      | 0.4921 | 0.5012 | 0.0066 | 44.2     | 34 572           | 14 473           | Ym   |
| 25 530           | -1 529c          | 81.69     | 76.8      | 0.56      | 0.5136 | 0.4828 | 0.0035 | 36.4     | 35 575           | 15 477           |      |
| 27 540           | -1 539c          | 79.51     | 68.0      | 0.26      | 0.538  | 0.4601 | 0.0018 | 27.8     | 35 579           | 16 480           |      |
| 28 545           | -1 544c          | 77.94     | 63.34     | 0.18      | 0.5509 | 0.4477 | 0.0013 | 23.4     | 36 581           | 16 481           |      |
| 29 550           | -1 549c          | 76.02     | 58.55     | 0.13      | 0.5643 | 0.4346 | 0.0009 | 19.1     | 36 583           | 16 483           |      |
| 30 555           | -1 554c          | 73.73     | 53.72     | 0.09      | 0.578  | 0.4211 | 0.0007 | 15.0     | 37 585           | 16 484           |      |
| 32 560           | -1 560c          | 68.07     | 44.27     | 0.05      | 0.6055 | 0.3938 | 0.0005 | 7.7      | 38 590           | 17 486           |      |
| 32 564           | 1 405            | 66.79     | 42.18     | 0.88      | 0.6079 | 0.3839 | 0.008  | 5.5      | 38 592           | 17 486           | Rm   |
| 33 565           | 7 435            | 70.08     | 41.81     | 18.99     | 0.5354 | 0.3194 | 0.1451 | 348.3    | 46 634           | 18 490           |      |
| 33 566           | 10 450           | 73.38     | 41.31     | 40.02     | 0.4743 | 0.267  | 0.2586 | 324.5    | -1 497c          | 19 497           |      |
| 33 567           | 12 460           | 74.94     | 40.69     | 54.22     | 0.4412 | 0.2395 | 0.3191 | 308.7    | -1 506c          | 21 506           |      |
| 33 568           | 13 465           | 75.1      | 40.04     | 60.32     | 0.428  | 0.2281 | 0.3437 | 302.3    | -1 511c          | 22 511           |      |
| 34 570           | 14 470           | 74.55     | 38.95     | 65.43     | 0.4166 | 0.2176 | 0.3656 | 296.7    | -1 519c          | 23 519           |      |
| 34 573           | 15 475           | 72.86     | 37.1      | 69.58     | 0.4058 | 0.2066 | 0.3875 | 291.6    | -1 527c          | 25 527           | Mm   |
| 35 578           | 15 480           | 68.81     | 33.08     | 69.57     | 0.4013 | 0.1929 | 0.4057 | 288.5    | -1 531c          | 26 531           |      |
| 37 587           | 17 485           | 61.09     | 27.75     | 75.16     | 0.3724 | 0.1692 | 0.4582 | 278.0    | -1 544c          | 28 544           |      |
| 44 620           | 18 490           | 30.81     | 11.97     | 76.95     | 0.2573 | 0.1    | 0.6426 | 251.1    | -1 561c          | 32 561           | min  |
| -1 495c          | 19 495           | 13.31     | 6.34      | 78.36     | 0.1357 | 0.0647 | 0.7994 | 234.4    | 12 463           | 33 568           |      |
| -1 500c          | 20 500           | 13.32     | 8.01      | 79.46     | 0.1321 | 0.0794 | 0.7883 | 232.5    | 13 466           | 33 569           |      |
| -1 510c          | 22 510           | 13.44     | 12.66     | 80.94     | 0.1255 | 0.1182 | 0.7561 | 227.5    | 14 471           | 34 571           |      |
| -1 519c          | 23 520           | 13.65     | 15.7      | 81.37     | 0.1233 | 0.1418 | 0.7348 | 224.2    | 14 473           | 34 572           | Bm   |
| -1 529c          | 25 530           | 14.72     | 23.19     | 81.93     | 0.1228 | 0.1935 | 0.6836 | 216.5    | 15 477           | 35 575           |      |
| -1 539c          | 27 540           | 16.91     | 31.99     | 82.22     | 0.1289 | 0.244  | 0.627  | 207.8    | 16 480           | 35 579           |      |
| -1 544c          | 28 545           | 18.47     | 36.65     | 82.3      | 0.1344 | 0.2666 | 0.5988 | 203.5    | 16 481           | 36 581           |      |
| -1 549c          | 29 550           | 20.4      | 41.44     | 82.36     | 0.1414 | 0.2873 | 0.5711 | 199.2    | 16 483           | 36 583           |      |
| -1 554c          | 30 555           | 22.69     | 46.27     | 82.39     | 0.1499 | 0.3057 | 0.5443 | 195.0    | 16 484           | 37 585           |      |
| -1 560c          | 32 560           | 28.35     | 55.72     | 82.43     | 0.1702 | 0.3346 | 0.495  | 187.7    | 17 486           | 38 590           |      |
| 380              | 770              | 96.42     | 100.0     | 82.49     | 0.3457 | 0.3585 | 0.2957 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, D50,  $Y_w=88,6$ , Parameter:  $c_{ab}$

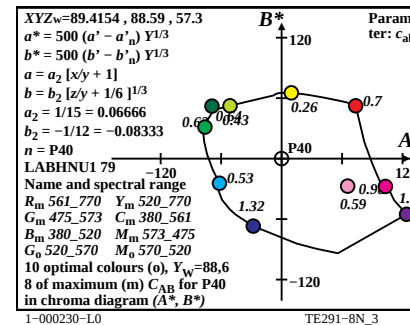
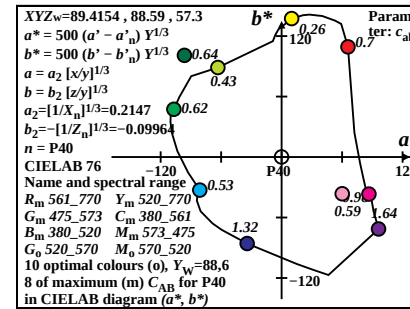
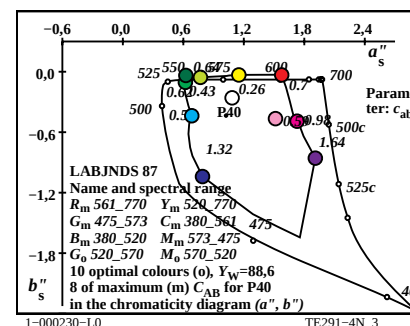
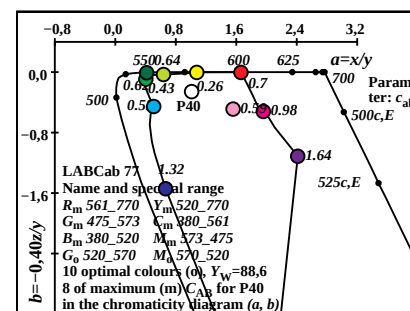
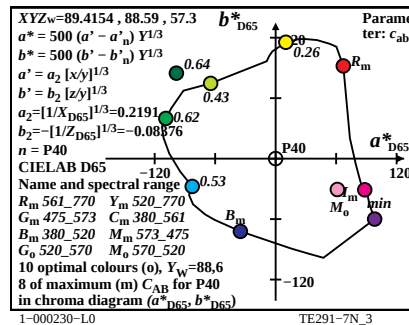
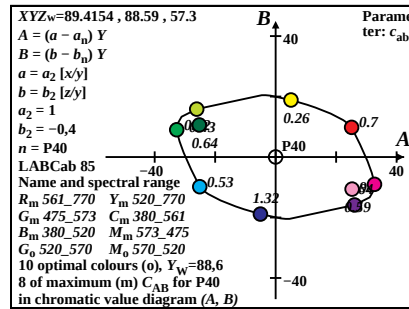
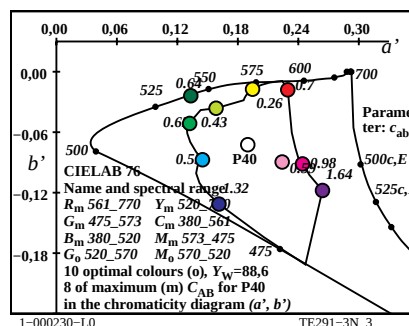
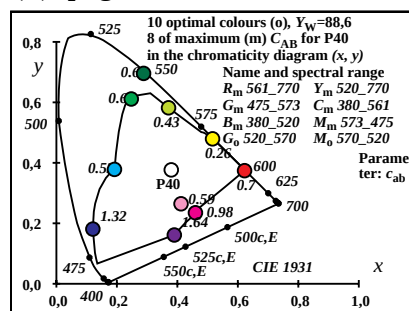


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for P40,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code               |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|--------------------|
| 0                | 405              | 33        | 568       | 28.76     | 56.58  | 64.26  | 0.1922 | 0.3782   | 0.4295           | 179.4            | 17 488 38 594 Cm   |
| 7                | 435              | 33        | 568       | 25.87     | 56.85  | 48.49  | 0.1971 | 0.4333   | 0.3695           | 162.7            | 18 493 54 674      |
| 10               | 450              | 33        | 569       | 23.49     | 57.27  | 33.07  | 0.2063 | 0.5031   | 0.2905           | 143.8            | 19 499 -1 499c     |
| 12               | 460              | 34        | 570       | 22.45     | 57.79  | 22.67  | 0.2181 | 0.5615   | 0.2202           | 131.1            | 21 507 -1 507c     |
| 13               | 465              | 34        | 571       | 22.44     | 58.31  | 18.03  | 0.2271 | 0.5902   | 0.1825           | 125.5            | 22 512 -1 512c     |
| 14               | 470              | 34        | 572       | 22.98     | 59.17  | 14.1   | 0.2387 | 0.6147   | 0.1464           | 120.6            | 23 519 -1 519c     |
| 14               | 475              | 34        | 574       | 24.78     | 61.12  | 14.1   | 0.2477 | 0.6111   | 0.141            | 119.3            | 24 522 -1 522c Gm  |
| 15               | 480              | 35        | 578       | 27.65     | 63.82  | 10.88  | 0.2701 | 0.6234   | 0.1063           | 113.9            | 26 531 -1 531c     |
| 17               | 485              | 37        | 585       | 33.55     | 68.02  | 6.37   | 0.3108 | 0.6301   | 0.059            | 105.2            | 28 543 -1 543c     |
| 17               | 490              | 40        | 600       | 50.32     | 79.03  | 6.38   | 0.3707 | 0.5822   | 0.047            | 92.5             | 30 554 -1 554c max |
| 19               | 495              | -1        | 495c      | 90.57     | 94.87  | 3.66   | 0.4789 | 0.5016   | 0.0193           | 51.6             | 34 571 12 464      |
| 20               | 500              | -1        | 500c      | 90.56     | 93.44  | 2.71   | 0.485  | 0.5004   | 0.0145           | 49.6             | 34 571 13 467      |
| 21               | 510              | -1        | 509c      | 90.54     | 91.62  | 1.97   | 0.4916 | 0.4975   | 0.0107           | 47.2             | 34 572 13 469      |
| 24               | 520              | -1        | 520c      | 89.9      | 83.41  | 0.74   | 0.5164 | 0.4792   | 0.0042           | 36.9             | 35 575 15 476 Ym   |
| 26               | 530              | -1        | 530c      | 88.44     | 75.94  | 0.37   | 0.5368 | 0.4609   | 0.0022           | 28.2             | 35 578 16 480      |
| 27               | 540              | -1        | 539c      | 87.29     | 71.77  | 0.26   | 0.5478 | 0.4504   | 0.0016           | 23.7             | 36 580 16 481      |
| 29               | 545              | -1        | 545c      | 84.0      | 62.86  | 0.13   | 0.5714 | 0.4276   | 0.0009           | 14.9             | 36 584 16 484      |
| 29               | 550              | -1        | 549c      | 84.0      | 62.86  | 0.13   | 0.5714 | 0.4276   | 0.0009           | 14.9             | 36 584 16 484      |
| 31               | 555              | -1        | 555c      | 79.18     | 53.5   | 0.07   | 0.5963 | 0.403    | 0.0006           | 6.9              | 37 588 17 486      |
| 32               | 560              | -1        | 560c      | 76.14     | 48.79  | 0.06   | 0.6091 | 0.3903   | 0.0005           | 3.4              | 38 591 17 487      |
| 33               | 568              | 0         | 405       | 72.16     | 43.41  | 0.42   | 0.622  | 0.3742   | 0.0037           | 359.4            | 38 594 17 488 Rm   |
| 33               | 568              | 7         | 435       | 75.05     | 43.14  | 16.19  | 0.5584 | 0.3209   | 0.1205           | 342.7            | 54 674 18 493      |
| 33               | 569              | 10        | 450       | 77.44     | 42.72  | 31.61  | 0.5102 | 0.2814   | 0.2082           | 323.9            | -1 499c 19 499     |
| 34               | 570              | 12        | 460       | 78.47     | 42.2   | 42.01  | 0.4823 | 0.2593   | 0.2582           | 311.1            | -1 507c 21 507     |
| 34               | 571              | 13        | 465       | 78.48     | 41.68  | 46.65  | 0.4704 | 0.2498   | 0.2796           | 305.5            | -1 512c 22 512     |
| 34               | 572              | 14        | 470       | 77.94     | 40.82  | 50.58  | 0.4602 | 0.241    | 0.2987           | 300.6            | -1 519c 23 519     |
| 34               | 574              | 14        | 475       | 76.15     | 38.87  | 50.58  | 0.4598 | 0.2347   | 0.3054           | 299.4            | -1 522c 24 522 Mm  |
| 35               | 578              | 15        | 480       | 73.27     | 36.17  | 53.8   | 0.4488 | 0.2215   | 0.3295           | 294.0            | -1 531c 26 531     |
| 37               | 585              | 17        | 485       | 67.37     | 31.97  | 58.31  | 0.4273 | 0.2028   | 0.3698           | 285.2            | -1 543c 28 543     |
| 40               | 600              | 17        | 490       | 50.61     | 20.96  | 58.3   | 0.3896 | 0.1614   | 0.4488           | 272.6            | -1 554c 30 554 min |
| -1               | 495c             | 19        | 495       | 10.35     | 5.12   | 61.02  | 0.1353 | 0.0669   | 0.7977           | 231.6            | 12 464 34 571      |
| -1               | 500c             | 20        | 500       | 10.36     | 6.55   | 61.97  | 0.1313 | 0.083    | 0.7855           | 229.7            | 13 467 34 571      |
| -1               | 509c             | 21        | 510       | 10.38     | 8.37   | 62.71  | 0.1275 | 0.1028   | 0.7696           | 227.3            | 13 469 34 572      |
| -1               | 520c             | 24        | 520       | 11.02     | 16.58  | 63.94  | 0.1204 | 0.1811   | 0.6984           | 216.9            | 15 476 35 575 Bm   |
| -1               | 530c             | 26        | 530       | 12.48     | 24.05  | 64.31  | 0.1237 | 0.2385   | 0.6377           | 208.3            | 16 480 35 578      |
| -1               | 539c             | 27        | 540       | 13.63     | 28.22  | 64.42  | 0.1282 | 0.2655   | 0.6061           | 203.7            | 16 481 36 580      |
| -1               | 545c             | 29        | 545       | 16.92     | 37.13  | 64.55  | 0.1427 | 0.313    | 0.5442           | 194.9            | 16 484 36 584      |
| -1               | 549c             | 29        | 550       | 16.92     | 37.13  | 64.55  | 0.1427 | 0.313    | 0.5442           | 194.9            | 16 484 36 584      |
| -1               | 555c             | 31        | 555       | 21.74     | 46.49  | 64.6   | 0.1636 | 0.3499   | 0.4863           | 186.9            | 17 486 37 588      |
| -1               | 560c             | 32        | 560       | 24.79     | 51.2   | 64.62  | 0.1762 | 0.3641   | 0.4595           | 183.4            | 17 487 38 591      |
| 380              | 770              | 100.93    | 100.0     | 64.68     | 0.3799 | 0.3764 | 0.2435 | 0.0      |                  |                  |                    |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, P40,  $Y_w=88,6$ , Parameter:  $c_{ab}$

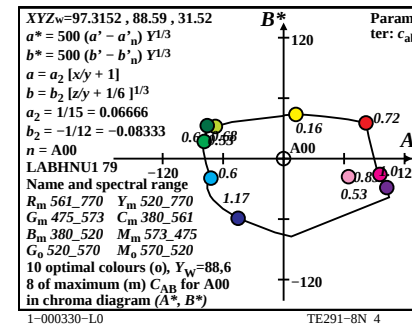
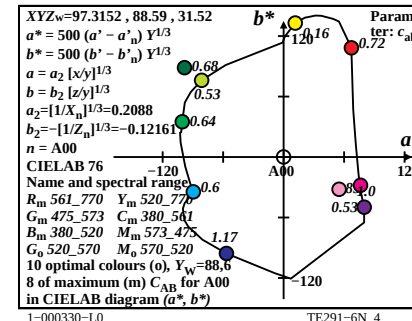
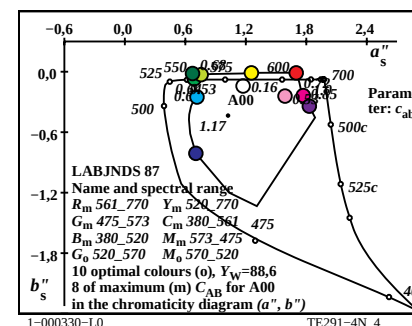
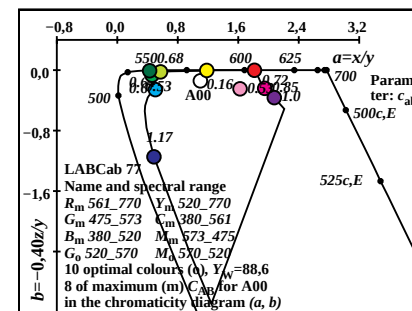
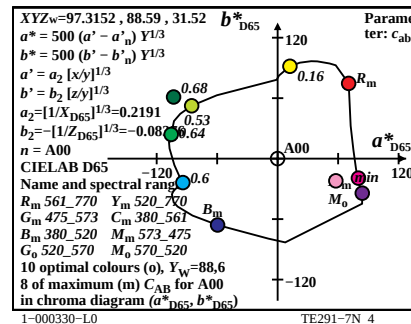
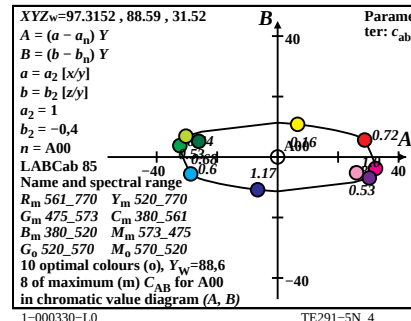
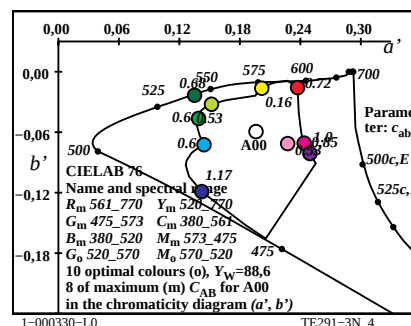
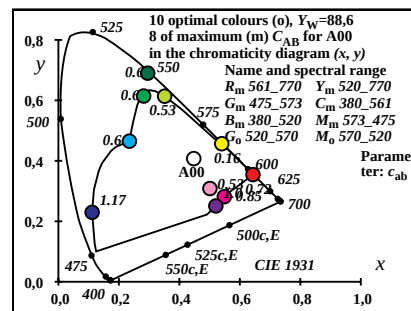


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for A00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 34 574           | 27.6      | 54.67     | 35.28     | 0.2347 | 0.465  | 0.3001 | 164.8    | 18 494           | 39 599           | Cm   |
| 6 435            | 34 574           | 26.83     | 54.85     | 30.55     | 0.239  | 0.4887 | 0.2722 | 158.6    | 19 496           | 42 611           |      |
| 9 450            | 34 574           | 25.76     | 55.12     | 23.32     | 0.2472 | 0.5289 | 0.2238 | 148.7    | 20 501           | -1 501c          |      |
| 12 460           | 35 575           | 24.7      | 55.33     | 14.75     | 0.2606 | 0.5837 | 0.1556 | 136.6    | 21 508           | -1 508c          |      |
| 13 465           | 35 575           | 24.73     | 55.6      | 12.04     | 0.2677 | 0.6018 | 0.1303 | 132.7    | 22 512           | -1 512c          |      |
| 13 470           | 35 576           | 25.43     | 56.26     | 12.04     | 0.2712 | 0.6001 | 0.1285 | 132.4    | 22 513           | -1 513c          |      |
| 14 475           | 35 577           | 26.19     | 57.11     | 9.67      | 0.2817 | 0.6142 | 0.104  | 128.7    | 23 519           | -1 519c          | Gm   |
| 16 480           | 35 579           | 27.57     | 58.19     | 6.02      | 0.3003 | 0.6339 | 0.0656 | 123.0    | 26 532           | -1 532c          |      |
| 17 485           | 36 582           | 30.76     | 60.55     | 4.72      | 0.3202 | 0.6305 | 0.0491 | 119.6    | 28 540           | -1 540c          |      |
| 18 490           | 37 588           | 37.17     | 64.98     | 3.68      | 0.3512 | 0.6139 | 0.0348 | 114.9    | 29 548           | -1 548c          | max  |
| 19 495           | 40 601           | 53.48     | 74.48     | 2.85      | 0.4088 | 0.5693 | 0.0218 | 103.4    | 31 559           | -1 559c          |      |
| 20 500           | -1 500c          | 104.46    | 95.67     | 2.17      | 0.5163 | 0.4728 | 0.0107 | 43.5     | 35 576           | 13 469           |      |
| 21 510           | -1 509c          | 104.44    | 94.31     | 1.62      | 0.5212 | 0.4706 | 0.0081 | 40.5     | 35 576           | 14 472           |      |
| 24 520           | -1 520c          | 103.93    | 87.81     | 0.66      | 0.5401 | 0.4563 | 0.0034 | 27.8     | 35 579           | 16 480           | Ym   |
| 26 530           | -1 530c          | 102.7     | 81.5      | 0.35      | 0.5564 | 0.4416 | 0.0019 | 17.4     | 36 582           | 16 484           |      |
| 28 540           | -1 540c          | 100.37    | 73.92     | 0.18      | 0.5752 | 0.4236 | 0.001  | 7.2      | 37 585           | 17 487           |      |
| 28 545           | -1 544c          | 100.37    | 73.92     | 0.18      | 0.5752 | 0.4236 | 0.001  | 7.2      | 37 585           | 17 487           |      |
| 29 550           | -1 549c          | 98.69     | 69.75     | 0.13      | 0.5854 | 0.4137 | 0.0008 | 2.6      | 37 586           | 17 489           |      |
| 31 555           | -1 555c          | 94.09     | 60.83     | 0.08      | 0.6069 | 0.3924 | 0.0005 | 354.6    | 38 590           | 18 491           |      |
| 32 560           | -1 560c          | 91.08     | 56.18     | 0.06      | 0.6182 | 0.3813 | 0.0004 | 351.3    | 38 593           | 18 492           |      |
| 34 574           | 1 405            | 82.24     | 45.32     | 0.3       | 0.6431 | 0.3544 | 0.0023 | 344.8    | 39 599           | 18 494           | Rm   |
| 34 574           | 6 435            | 83.01     | 45.14     | 5.02      | 0.6233 | 0.3389 | 0.0377 | 338.7    | 42 611           | 19 496           |      |
| 34 574           | 9 450            | 84.08     | 44.87     | 12.26     | 0.5954 | 0.3177 | 0.0868 | 328.7    | -1 501c          | 20 501           |      |
| 35 575           | 12 460           | 85.14     | 44.66     | 20.83     | 0.5651 | 0.2965 | 0.1382 | 316.7    | -1 508c          | 21 508           |      |
| 35 575           | 13 465           | 85.11     | 44.39     | 23.53     | 0.5561 | 0.29   | 0.1537 | 312.7    | -1 512c          | 22 512           |      |
| 35 576           | 13 470           | 84.41     | 43.73     | 23.53     | 0.5565 | 0.2883 | 0.1551 | 312.4    | -1 513c          | 22 513           |      |
| 35 577           | 14 475           | 83.64     | 42.88     | 25.91     | 0.5487 | 0.2813 | 0.1699 | 308.7    | -1 519c          | 23 519           | Mm   |
| 35 579           | 16 480           | 82.27     | 41.8      | 29.55     | 0.5355 | 0.272  | 0.1923 | 303.0    | -1 532c          | 26 532           |      |
| 36 582           | 17 485           | 79.08     | 39.44     | 30.85     | 0.5294 | 0.264  | 0.2065 | 299.7    | -1 540c          | 28 540           |      |
| 37 588           | 18 490           | 72.67     | 35.01     | 31.89     | 0.5206 | 0.2508 | 0.2285 | 295.0    | -1 548c          | 29 548           | min  |
| 40 601           | 19 495           | 56.36     | 25.51     | 32.72     | 0.4917 | 0.2226 | 0.2855 | 283.4    | -1 559c          | 31 559           |      |
| -1 500c          | 20 500           | 5.38      | 4.32      | 33.4      | 0.1248 | 0.1002 | 0.7748 | 223.5    | 13 469           | 35 576           |      |
| -1 509c          | 21 510           | 5.39      | 5.68      | 33.95     | 0.1198 | 0.1262 | 0.7538 | 220.6    | 14 472           | 35 576           |      |
| -1 520c          | 24 520           | 5.91      | 12.18     | 34.91     | 0.1115 | 0.2298 | 0.6586 | 207.8    | 16 480           | 35 579           | Bm   |
| -1 530c          | 26 530           | 7.14      | 18.49     | 35.23     | 0.1173 | 0.3037 | 0.5788 | 197.4    | 16 484           | 36 582           |      |
| -1 540c          | 28 540           | 9.47      | 26.07     | 35.39     | 0.1335 | 0.3674 | 0.4989 | 187.2    | 17 487           | 37 585           |      |
| -1 544c          | 28 545           | 9.47      | 26.07     | 35.39     | 0.1335 | 0.3674 | 0.4989 | 187.2    | 17 487           | 37 585           |      |
| -1 549c          | 29 550           | 11.15     | 30.24     | 35.44     | 0.1451 | 0.3935 | 0.4612 | 182.6    | 17 489           | 37 586           |      |
| -1 555c          | 31 555           | 15.75     | 39.16     | 35.49     | 0.1742 | 0.4331 | 0.3926 | 174.6    | 18 491           | 38 590           |      |
| -1 560c          | 32 560           | 18.75     | 43.81     | 35.51     | 0.1912 | 0.4466 | 0.362  | 171.2    | 18 492           | 38 593           |      |
| 380              | 770              | 109.84    | 99.99     | 35.58     | 0.4475 | 0.4074 | 0.1449 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, A00,  $Y_w=88,6$ , Parameter:  $c_{ab}$

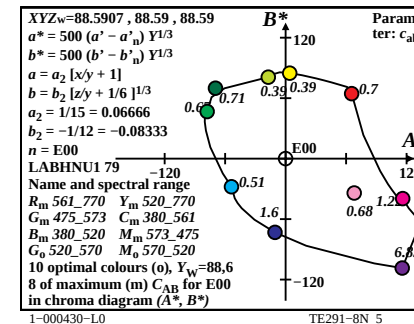
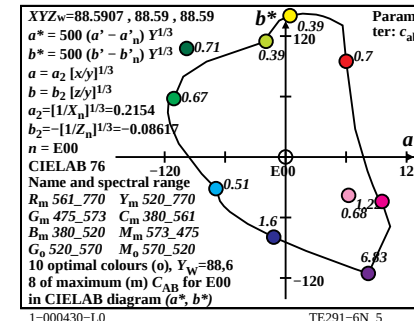
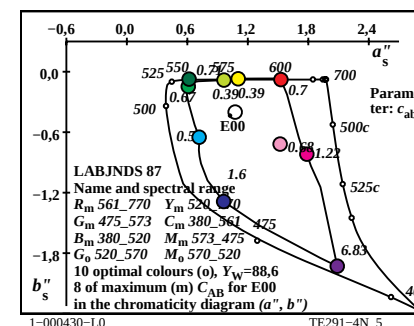
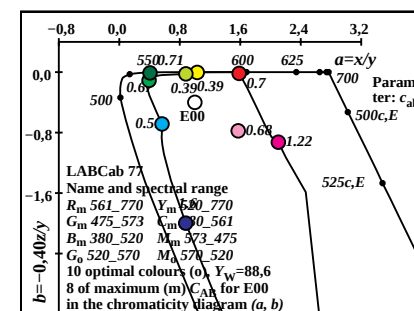
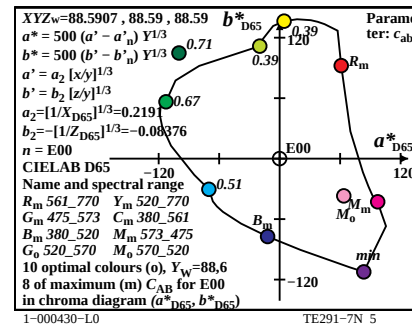
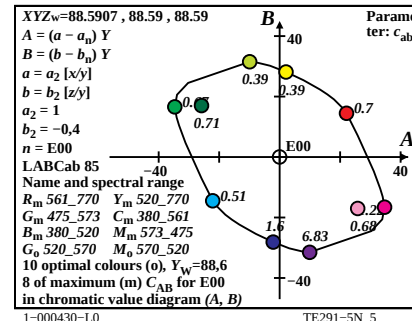
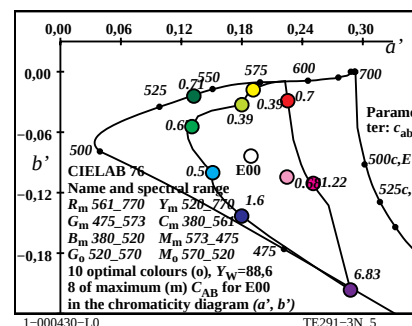
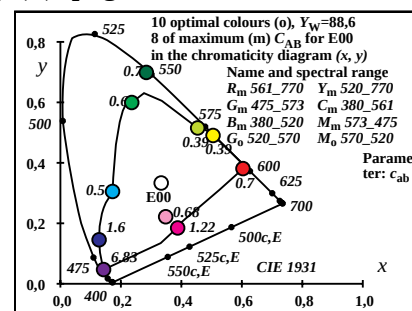


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for E00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 564           | 32.46     | 57.42     | 98.28     | 0.1725 | 0.3051 | 0.5222 | 189.9    | 16 484           | 38 592           | Cm   |
| 6 435            | 33 565           | 28.76     | 57.91     | 77.9      | 0.1747 | 0.3518 | 0.4733 | 173.3    | 17 488           | 45 627           |      |
| 10 450           | 33 566           | 23.31     | 58.44     | 45.21     | 0.1835 | 0.4603 | 0.3561 | 139.6    | 19 498           | -1 498c          |      |
| 12 460           | 33 568           | 21.73     | 59.28     | 29.75     | 0.1962 | 0.5351 | 0.2686 | 124.1    | 21 507           | -1 507c          |      |
| 13 465           | 33 569           | 21.68     | 60.14     | 23.17     | 0.2065 | 0.5727 | 0.2206 | 117.8    | 22 514           | -1 514c          |      |
| 14 470           | 34 571           | 22.57     | 61.52     | 17.72     | 0.2217 | 0.6041 | 0.174  | 112.3    | 24 522           | -1 522c          |      |
| 14 475           | 35 575           | 25.39     | 64.53     | 17.73     | 0.2358 | 0.5994 | 0.1646 | 110.0    | 25 525           | -1 525c          | Gm   |
| 16 480           | 36 581           | 29.91     | 68.21     | 10.05     | 0.2765 | 0.6305 | 0.0929 | 100.8    | 27 538           | -1 538c          |      |
| 17 485           | 39 595           | 42.54     | 76.7      | 7.54      | 0.3355 | 0.6049 | 0.0594 | 89.5     | 29 549           | -1 549c          |      |
| 18 490           | -1 490c          | 83.34     | 94.54     | 5.63      | 0.4541 | 0.5151 | 0.0307 | 56.3     | 33 568           | 11 459           | max  |
| 19 495           | -1 495c          | 83.29     | 93.18     | 4.17      | 0.461  | 0.5157 | 0.0231 | 54.9     | 33 568           | 12 461           |      |
| 19 500           | -1 499c          | 83.29     | 93.18     | 4.17      | 0.461  | 0.5157 | 0.0231 | 54.9     | 33 568           | 12 461           |      |
| 22 510           | -1 510c          | 83.16     | 86.74     | 1.54      | 0.485  | 0.5059 | 0.0089 | 48.6     | 34 571           | 13 469           |      |
| 24 520           | -1 520c          | 82.54     | 80.14     | 0.78      | 0.5049 | 0.4902 | 0.0047 | 42.4     | 34 574           | 14 473           | Ym   |
| 26 530           | -1 530c          | 80.98     | 72.11     | 0.37      | 0.5276 | 0.4698 | 0.0024 | 35.0     | 35 577           | 15 477           |      |
| 28 540           | -1 540c          | 78.25     | 63.21     | 0.18      | 0.5524 | 0.4462 | 0.0012 | 27.2     | 36 581           | 15 479           |      |
| 29 545           | -1 545c          | 76.4      | 58.59     | 0.13      | 0.5654 | 0.4336 | 0.0009 | 23.3     | 36 583           | 16 480           |      |
| 29 550           | -1 549c          | 76.4      | 58.59     | 0.13      | 0.5654 | 0.4336 | 0.0009 | 23.3     | 36 583           | 16 480           |      |
| 30 555           | -1 554c          | 74.18     | 53.92     | 0.09      | 0.5786 | 0.4205 | 0.0007 | 19.5     | 37 585           | 16 482           |      |
| 32 560           | -1 560c          | 68.62     | 44.64     | 0.05      | 0.6055 | 0.3939 | 0.0005 | 12.5     | 38 590           | 16 483           |      |
| 32 564           | 1 405            | 67.53     | 42.57     | 1.71      | 0.6039 | 0.3807 | 0.0153 | 9.9      | 38 592           | 16 484           | Rm   |
| 33 565           | 6 435            | 71.23     | 42.08     | 22.09     | 0.526  | 0.3107 | 0.1632 | 353.3    | 45 627           | 17 488           |      |
| 33 566           | 10 450           | 76.68     | 41.55     | 54.78     | 0.4432 | 0.2401 | 0.3166 | 319.7    | -1 498c          | 19 498           |      |
| 33 568           | 12 460           | 78.26     | 40.71     | 70.24     | 0.4135 | 0.2151 | 0.3712 | 304.2    | -1 507c          | 21 507           |      |
| 33 569           | 13 465           | 78.31     | 39.85     | 76.83     | 0.4015 | 0.2043 | 0.394  | 297.9    | -1 514c          | 22 514           |      |
| 34 571           | 14 470           | 77.42     | 38.47     | 82.27     | 0.3906 | 0.1941 | 0.4151 | 292.4    | -1 522c          | 24 522           |      |
| 35 575           | 14 475           | 74.61     | 35.46     | 82.27     | 0.3878 | 0.1843 | 0.4277 | 290.1    | -1 525c          | 25 525           | Mm   |
| 36 581           | 16 480           | 70.08     | 31.78     | 89.94     | 0.3653 | 0.1656 | 0.4689 | 280.8    | -1 538c          | 27 538           |      |
| 39 595           | 17 485           | 57.45     | 23.29     | 92.46     | 0.3317 | 0.1344 | 0.5337 | 269.5    | -1 549c          | 29 549           |      |
| -1 490c          | 18 490           | 16.65     | 5.45      | 94.36     | 0.1429 | 0.0468 | 0.8101 | 236.4    | 11 459           | 33 568           | min  |
| -1 495c          | 19 495           | 16.7      | 6.81      | 95.82     | 0.1399 | 0.0571 | 0.8029 | 235.0    | 12 461           | 33 568           |      |
| -1 499c          | 19 500           | 16.7      | 6.81      | 95.82     | 0.1399 | 0.0571 | 0.8029 | 235.0    | 12 461           | 33 568           |      |
| -1 510c          | 22 510           | 16.83     | 13.25     | 98.45     | 0.1309 | 0.1031 | 0.7659 | 228.6    | 13 469           | 34 571           |      |
| -1 520c          | 24 520           | 17.45     | 19.85     | 99.22     | 0.1278 | 0.1454 | 0.7267 | 222.4    | 14 473           | 34 574           | Bm   |
| -1 530c          | 26 530           | 19.01     | 27.88     | 99.62     | 0.1297 | 0.1903 | 0.6798 | 215.1    | 15 477           | 35 577           |      |
| -1 540c          | 28 540           | 21.74     | 36.78     | 99.81     | 0.1373 | 0.2323 | 0.6303 | 207.2    | 15 479           | 36 581           |      |
| -1 545c          | 29 545           | 23.59     | 41.4      | 99.86     | 0.1431 | 0.2511 | 0.6057 | 203.3    | 16 480           | 36 583           |      |
| -1 549c          | 29 550           | 23.59     | 41.4      | 99.86     | 0.1431 | 0.2511 | 0.6057 | 203.3    | 16 480           | 36 583           |      |
| -1 554c          | 30 555           | 25.81     | 46.07     | 99.9      | 0.1502 | 0.2682 | 0.5815 | 199.5    | 16 482           | 37 585           |      |
| -1 560c          | 32 560           | 31.37     | 55.35     | 99.94     | 0.168  | 0.2965 | 0.5353 | 192.5    | 16 483           | 38 590           |      |
| 380              | 770              | 100.0     | 100.0     | 100.0     | 0.3333 | 0.3333 | 0.3333 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, E00,  $Y_w=88,6$ , Parameter:  $c_{ab}$

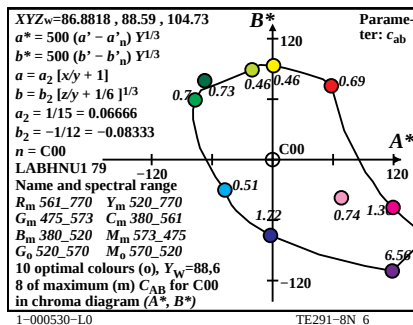
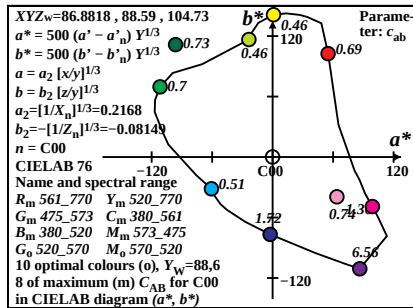
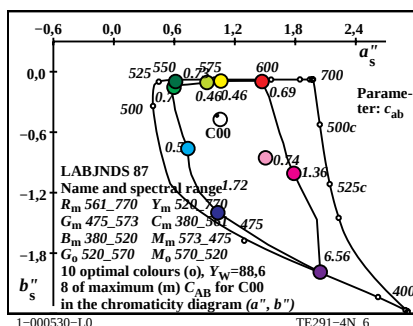
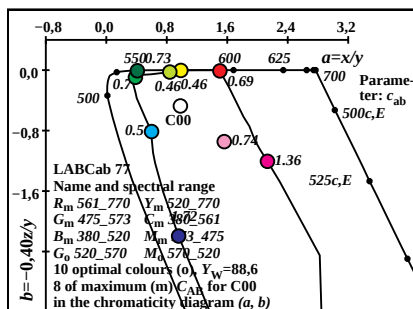
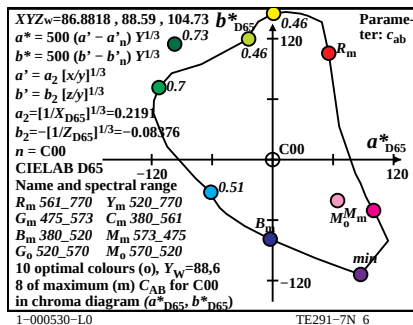
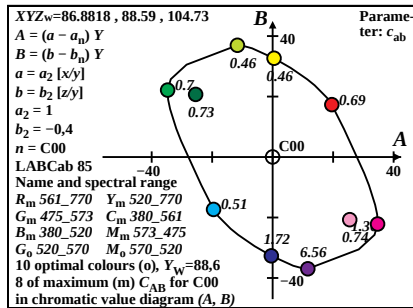
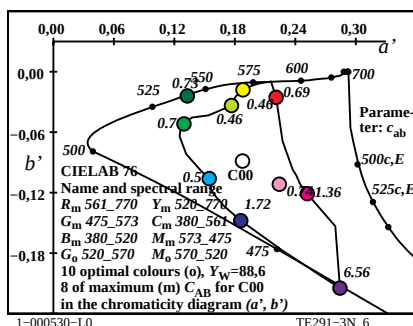
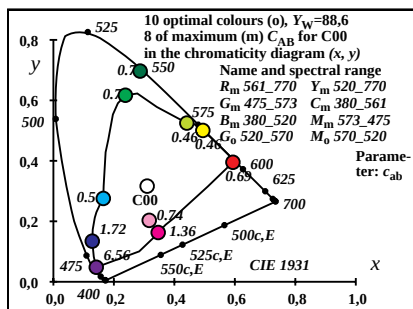


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for C00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$   | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code           |     |
|------------------|------------------|-----------|-----------|-----------|-------|--------|--------|----------|------------------|------------------|----------------|-----|
| 1                | 405              | 32        | 562       | 34.5      | 57.68 | 117.03 | 0.1649 | 0.2756   | 0.5593           | 195.5            | 16 482 37 589  | Cm  |
| 6                | 435              | 32        | 563       | 30.59     | 58.35 | 95.14  | 0.1661 | 0.3169   | 0.5168           | 179.6            | 17 486 42 612  |     |
| 10               | 450              | 32        | 564       | 23.8      | 59.09 | 54.97  | 0.1726 | 0.4286   | 0.3987           | 140.6            | 19 496 -1 496c |     |
| 11               | 460              | 33        | 566       | 23.39     | 60.53 | 45.09  | 0.1813 | 0.4691   | 0.3494           | 130.0            | 20 501 -1 501c |     |
| 13               | 465              | 33        | 568       | 21.76     | 61.21 | 27.67  | 0.1967 | 0.5531   | 0.2501           | 115.5            | 22 513 -1 513c |     |
| 14               | 470              | 34        | 570       | 22.73     | 62.96 | 20.9   | 0.2132 | 0.5906   | 0.1961           | 109.4            | 24 522 -1 522c |     |
| 15               | 475              | 35        | 575       | 25.45     | 65.92 | 15.51  | 0.2381 | 0.6167   | 0.1451           | 103.4            | 26 530 -1 530c | Gm  |
| 16               | 480              | 36        | 582       | 31.68     | 71.08 | 11.37  | 0.2775 | 0.6227   | 0.0996           | 96.0             | 28 540 -1 540c |     |
| 16               | 485              | 40        | 602       | 48.83     | 82.56 | 11.39  | 0.342  | 0.5781   | 0.0798           | 83.0             | 30 551 -1 551c |     |
| 18               | 490              | -1        | 490c      | 78.39     | 93.33 | 6.01   | 0.441  | 0.525    | 0.0338           | 57.8             | 33 566 11 459  | max |
| 19               | 495              | -1        | 495c      | 78.34     | 91.77 | 4.32   | 0.449  | 0.526    | 0.0248           | 56.4             | 33 567 12 462  |     |
| 19               | 500              | -1        | 499c      | 78.34     | 91.77 | 4.32   | 0.449  | 0.526    | 0.0248           | 56.4             | 33 567 12 462  |     |
| 21               | 510              | -1        | 509c      | 78.29     | 87.66 | 2.16   | 0.4656 | 0.5214   | 0.0128           | 52.8             | 33 568 13 466  |     |
| 24               | 520              | -1        | 520c      | 77.6      | 78.6  | 0.78   | 0.4943 | 0.5006   | 0.0049           | 45.0             | 34 572 14 472  | Ym  |
| 26               | 530              | -1        | 530c      | 76.06     | 70.68 | 0.38   | 0.5169 | 0.4804   | 0.0026           | 38.4             | 35 575 15 475  |     |
| 28               | 540              | -1        | 540c      | 73.26     | 61.57 | 0.18   | 0.5425 | 0.456    | 0.0013           | 31.0             | 35 579 15 478  |     |
| 28               | 545              | -1        | 544c      | 73.26     | 61.57 | 0.18   | 0.5425 | 0.456    | 0.0013           | 31.0             | 35 579 15 478  |     |
| 29               | 550              | -1        | 549c      | 71.31     | 56.72 | 0.13   | 0.5563 | 0.4425   | 0.001            | 27.1             | 36 581 15 479  |     |
| 31               | 555              | -1        | 555c      | 66.23     | 46.84 | 0.07   | 0.5853 | 0.4139   | 0.0006           | 19.5             | 37 586 16 481  |     |
| 31               | 560              | -1        | 559c      | 66.23     | 46.84 | 0.07   | 0.5853 | 0.4139   | 0.0006           | 19.5             | 37 586 16 481  |     |
| 32               | 562              | 1         | 405       | 63.56     | 42.31 | 1.19   | 0.5936 | 0.3952   | 0.0111           | 15.5             | 37 589 16 482  | Rm  |
| 32               | 563              | 6         | 435       | 67.47     | 41.64 | 23.08  | 0.5104 | 0.315    | 0.1745           | 359.6            | 42 612 17 486  |     |
| 32               | 564              | 10        | 450       | 74.26     | 40.9  | 63.25  | 0.4162 | 0.2292   | 0.3544           | 320.7            | -1 496c 19 496 |     |
| 33               | 566              | 11        | 460       | 74.67     | 39.46 | 73.13  | 0.3987 | 0.2107   | 0.3905           | 310.1            | -1 501c 20 501 |     |
| 33               | 568              | 13        | 465       | 76.3      | 38.78 | 90.54  | 0.371  | 0.1886   | 0.4403           | 295.5            | -1 513c 22 513 |     |
| 34               | 570              | 14        | 470       | 75.33     | 37.03 | 97.31  | 0.3592 | 0.1766   | 0.4641           | 289.4            | -1 522c 24 522 |     |
| 35               | 575              | 15        | 475       | 72.61     | 34.07 | 102.71 | 0.3467 | 0.1627   | 0.4905           | 283.4            | -1 530c 26 530 | Mm  |
| 36               | 582              | 16        | 480       | 66.38     | 28.91 | 106.84 | 0.3284 | 0.143    | 0.5285           | 276.0            | -1 540c 28 540 |     |
| 40               | 602              | 16        | 485       | 49.23     | 17.43 | 106.83 | 0.2837 | 0.1005   | 0.6157           | 263.0            | -1 551c 30 551 |     |
| -1               | 490c             | 18        | 490       | 19.67     | 6.66  | 112.2  | 0.142  | 0.0481   | 0.8098           | 237.9            | 11 459 33 566  | min |
| -1               | 495c             | 18        | 495       | 19.72     | 8.22  | 113.89 | 0.139  | 0.0579   | 0.8029           | 236.4            | 12 462 33 567  |     |
| -1               | 499c             | 19        | 500       | 19.72     | 8.22  | 113.89 | 0.139  | 0.0579   | 0.8029           | 236.4            | 12 462 33 567  |     |
| -1               | 509c             | 21        | 510       | 19.77     | 12.33 | 116.05 | 0.1334 | 0.0832   | 0.7833           | 232.8            | 13 466 33 568  |     |
| -1               | 520c             | 24        | 520       | 20.46     | 21.39 | 117.44 | 0.1284 | 0.1342   | 0.7372           | 225.0            | 14 472 34 572  | Bm  |
| -1               | 530c             | 26        | 530       | 22.0      | 29.31 | 117.83 | 0.1301 | 0.1732   | 0.6966           | 218.4            | 15 475 35 575  |     |
| -1               | 540c             | 28        | 540       | 24.8      | 38.42 | 118.03 | 0.1368 | 0.2119   | 0.6511           | 211.0            | 15 478 35 579  |     |
| -1               | 544c             | 28        | 545       | 24.8      | 38.42 | 118.03 | 0.1368 | 0.2119   | 0.6511           | 211.0            | 15 478 35 579  |     |
| -1               | 549c             | 29        | 550       | 26.75     | 43.27 | 118.09 | 0.1422 | 0.23     | 0.6277           | 207.1            | 15 479 36 581  |     |
| -1               | 555c             | 31        | 555       | 31.83     | 53.15 | 118.15 | 0.1567 | 0.2616   | 0.5816           | 199.5            | 16 481 37 586  |     |
| -1               | 559c             | 31        | 560       | 31.83     | 53.15 | 118.15 | 0.1567 | 0.2616   | 0.5816           | 199.5            | 16 481 37 586  |     |
| 380              | 770              | 98.07     | 100.0     | 118.22    | 0.31  | 0.3161 | 0.3737 | 0.0      |                  |                  |                |     |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, C00,  $Y_w=88,6$ , Parameter:  $c_{ab}$

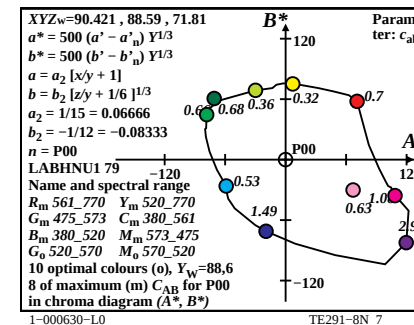
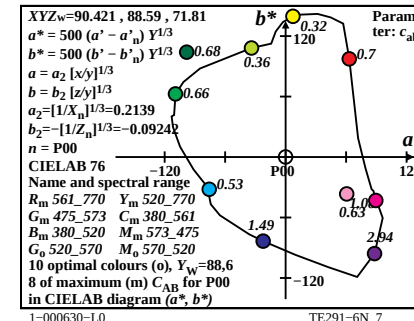
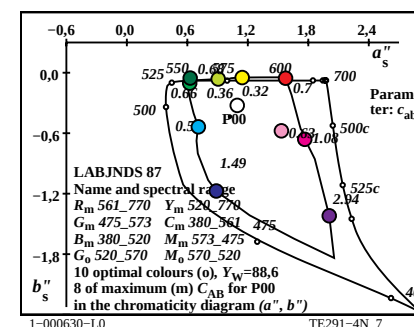
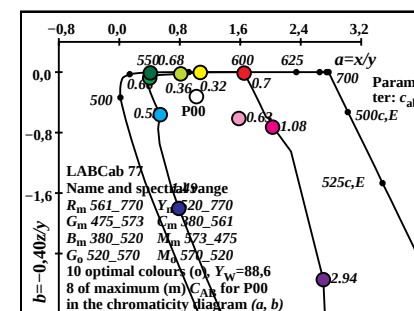
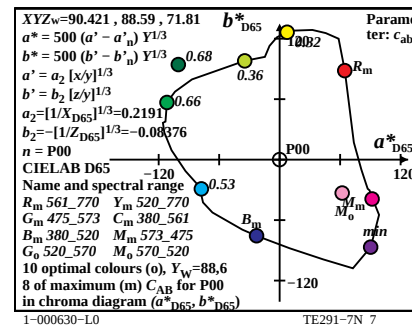
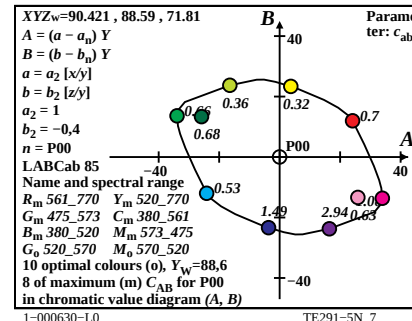
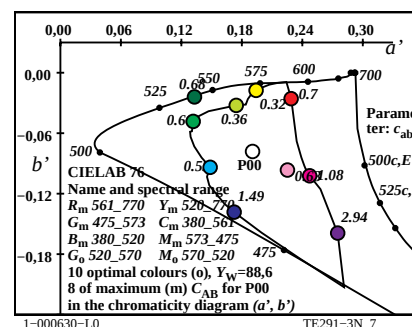
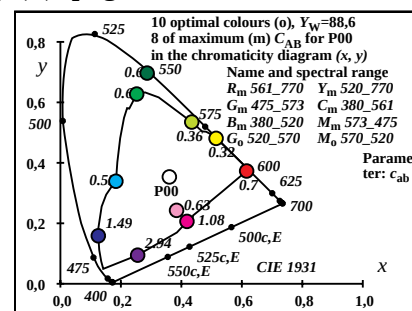


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for P00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 33 567           | 30.75     | 56.81     | 79.81     | 0.1837 | 0.3394 | 0.4768 | 184.4    | 17 486           | 38 594           | Cm   |
| 7 435            | 33 567           | 26.73     | 57.13     | 58.13     | 0.1882 | 0.4023 | 0.4093 | 164.0    | 18 491           | -1 491c          |      |
| 10 450           | 33 568           | 23.65     | 57.64     | 38.32     | 0.1977 | 0.4818 | 0.3204 | 141.6    | 19 499           | -1 499c          |      |
| 12 460           | 34 570           | 22.35     | 58.3      | 25.63     | 0.2103 | 0.5485 | 0.2411 | 127.5    | 21 507           | -1 507c          |      |
| 13 465           | 34 571           | 22.38     | 58.95     | 20.14     | 0.2205 | 0.5809 | 0.1984 | 121.5    | 22 513           | -1 513c          |      |
| 13 470           | 34 572           | 23.76     | 60.46     | 20.14     | 0.2277 | 0.5792 | 0.1929 | 120.4    | 23 515           | -1 515c          |      |
| 15 475           | 35 575           | 24.94     | 61.97     | 11.85     | 0.2524 | 0.6274 | 0.12   | 111.4    | 25 529           | -1 529c          | Gm   |
| 16 480           | 36 580           | 28.9      | 65.35     | 8.98      | 0.2799 | 0.6329 | 0.087  | 106.0    | 27 537           | -1 537c          |      |
| 17 485           | 37 589           | 37.81     | 71.71     | 6.79      | 0.325  | 0.6164 | 0.0584 | 97.6     | 29 547           | -1 547c          |      |
| 18 490           | 45 625           | 72.2      | 88.93     | 5.13      | 0.4342 | 0.5348 | 0.0308 | 67.8     | 32 564           | -1 564c          | max  |
| 18 495           | -1 494c          | 88.77     | 95.36     | 5.13      | 0.469  | 0.5038 | 0.0271 | 54.2     | 34 570           | 12 460           |      |
| 20 500           | -1 500c          | 88.71     | 92.62     | 2.81      | 0.4817 | 0.5029 | 0.0153 | 50.9     | 34 571           | 13 465           |      |
| 22 510           | -1 510c          | 88.6      | 88.31     | 1.45      | 0.4967 | 0.495  | 0.0081 | 46.1     | 34 573           | 14 470           |      |
| 24 520           | -1 520c          | 88.03     | 82.18     | 0.75      | 0.5148 | 0.4807 | 0.0043 | 39.5     | 35 575           | 14 474           | Ym   |
| 25 530           | -1 529c          | 87.42     | 78.53     | 0.53      | 0.525  | 0.4717 | 0.0032 | 35.7     | 35 577           | 15 476           |      |
| 28 540           | -1 540c          | 83.92     | 66.0      | 0.18      | 0.559  | 0.4397 | 0.0012 | 23.5     | 36 582           | 16 481           |      |
| 28 545           | -1 544c          | 83.92     | 66.0      | 0.18      | 0.559  | 0.4397 | 0.0012 | 23.5     | 36 582           | 16 481           |      |
| 30 550           | -1 550c          | 79.92     | 56.88     | 0.1       | 0.5837 | 0.4155 | 0.0007 | 15.5     | 37 586           | 16 483           |      |
| 30 555           | -1 554c          | 79.92     | 56.88     | 0.1       | 0.5837 | 0.4155 | 0.0007 | 15.5     | 37 586           | 16 483           |      |
| 32 560           | -1 560c          | 74.35     | 47.6      | 0.06      | 0.6093 | 0.3901 | 0.0005 | 8.4      | 38 591           | 17 485           |      |
| 33 567           | 1 405            | 71.3      | 43.18     | 1.24      | 0.6161 | 0.3731 | 0.0107 | 4.4      | 38 594           | 17 486           | Rm   |
| 33 567           | 7 435            | 75.32     | 42.86     | 22.92     | 0.5338 | 0.3037 | 0.1624 | 344.0    | -1 491c          | 18 491           |      |
| 33 568           | 10 450           | 78.41     | 42.35     | 42.73     | 0.4795 | 0.259  | 0.2613 | 321.6    | -1 499c          | 19 499           |      |
| 34 570           | 12 460           | 79.71     | 41.69     | 55.42     | 0.4507 | 0.2357 | 0.3134 | 307.5    | -1 507c          | 21 507           |      |
| 34 571           | 13 465           | 79.68     | 41.04     | 60.91     | 0.4386 | 0.2259 | 0.3353 | 301.5    | -1 513c          | 22 513           |      |
| 34 572           | 13 470           | 78.29     | 39.53     | 60.91     | 0.438  | 0.2211 | 0.3407 | 300.4    | -1 515c          | 23 515           |      |
| 35 575           | 15 475           | 77.12     | 38.02     | 69.2      | 0.4183 | 0.2062 | 0.3753 | 291.5    | -1 529c          | 25 529           | Mm   |
| 36 580           | 16 480           | 73.15     | 34.64     | 72.07     | 0.4067 | 0.1925 | 0.4006 | 286.0    | -1 537c          | 27 537           |      |
| 37 589           | 17 485           | 64.24     | 28.28     | 74.26     | 0.3851 | 0.1695 | 0.4452 | 277.6    | -1 547c          | 29 547           |      |
| 45 625           | 18 490           | 29.85     | 11.06     | 75.92     | 0.2555 | 0.0946 | 0.6497 | 247.9    | -1 564c          | 32 564           | min  |
| -1 494c          | 18 495           | 13.29     | 4.63      | 75.92     | 0.1416 | 0.0493 | 0.809  | 234.2    | 12 460           | 34 570           |      |
| -1 500c          | 20 500           | 13.35     | 7.37      | 78.24     | 0.1349 | 0.0745 | 0.7905 | 231.0    | 13 465           | 34 571           |      |
| -1 510c          | 22 510           | 13.45     | 11.68     | 79.6      | 0.1284 | 0.1115 | 0.7599 | 226.1    | 14 470           | 34 573           |      |
| -1 520c          | 24 520           | 14.03     | 17.81     | 80.3      | 0.1251 | 0.1588 | 0.716  | 219.5    | 14 474           | 35 575           | Bm   |
| -1 529c          | 25 530           | 14.64     | 21.46     | 80.52     | 0.1255 | 0.184  | 0.6904 | 215.7    | 15 476           | 35 577           |      |
| -1 540c          | 28 540           | 18.14     | 33.99     | 80.87     | 0.1364 | 0.2555 | 0.608  | 203.5    | 16 481           | 36 582           |      |
| -1 544c          | 28 545           | 18.14     | 33.99     | 80.87     | 0.1364 | 0.2555 | 0.608  | 203.5    | 16 481           | 36 582           |      |
| -1 550c          | 30 550           | 22.14     | 43.11     | 80.96     | 0.1514 | 0.2948 | 0.5537 | 195.5    | 16 483           | 37 586           |      |
| -1 554c          | 30 555           | 22.14     | 43.11     | 80.96     | 0.1514 | 0.2948 | 0.5537 | 195.5    | 16 483           | 37 586           |      |
| -1 560c          | 32 560           | 27.71     | 52.39     | 80.99     | 0.172  | 0.3252 | 0.5027 | 188.4    | 17 485           | 38 591           |      |
| 380              | 770              | 102.06    | 100.0     | 81.06     | 0.3604 | 0.3531 | 0.2863 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, P00,  $Y_w=88,6$ , Parameter:  $c_{ab}$

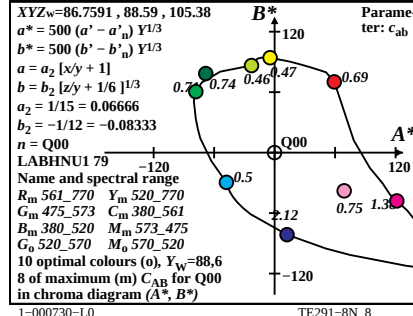
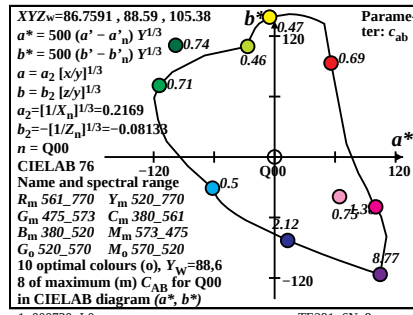
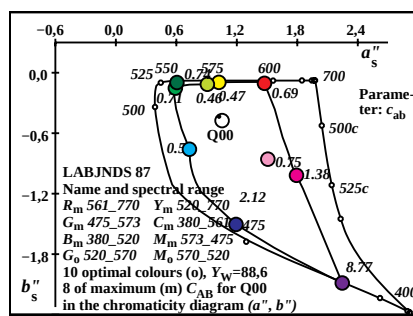
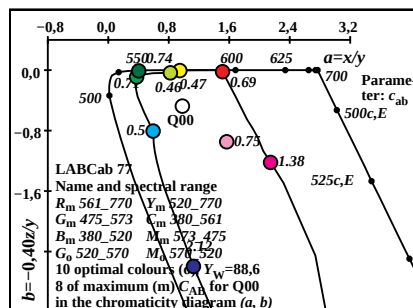
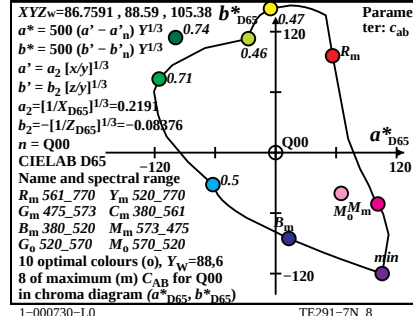
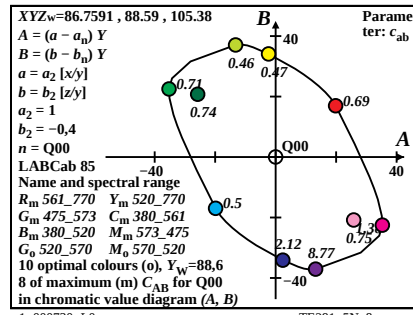
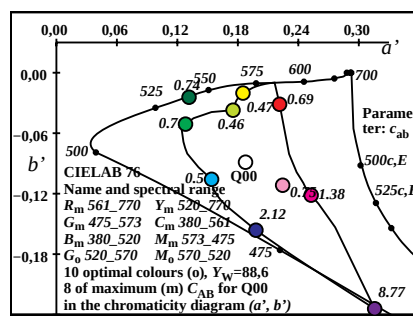
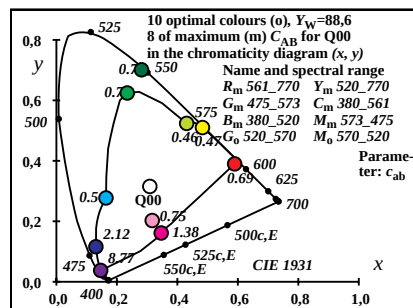


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for Q00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 562           | 34.3      | 57.89     | 116.76    | 0.1641 | 0.277  | 0.5587 | 194.9    | 16 482           | 38 590           | Cm   |
| 7 435            | 32 562           | 27.73     | 58.38     | 81.9      | 0.165  | 0.3474 | 0.4874 | 167.4    | 17 488           | -1 488c          |      |
| 10 450           | 32 564           | 22.97     | 59.19     | 52.11     | 0.171  | 0.4408 | 0.388  | 137.7    | 19 497           | -1 497c          |      |
| 11 460           | 33 566           | 22.58     | 60.58     | 42.66     | 0.1795 | 0.4814 | 0.339  | 127.9    | 20 502           | -1 502c          |      |
| 12 465           | 33 568           | 22.28     | 61.7      | 33.88     | 0.189  | 0.5234 | 0.2874 | 119.9    | 21 508           | -1 508c          |      |
| 14 470           | 34 570           | 22.03     | 62.97     | 19.9      | 0.21   | 0.6002 | 0.1896 | 109.1    | 24 522           | -1 522c          |      |
| 15 475           | 35 575           | 24.72     | 65.9      | 14.92     | 0.2342 | 0.6243 | 0.1413 | 103.6    | 26 530           | -1 530c          | Gm   |
| 16 480           | 36 582           | 30.96     | 71.11     | 11.12     | 0.2735 | 0.6281 | 0.0982 | 96.4     | 27 539           | -1 539c          |      |
| 17 485           | 40 602           | 48.5      | 81.95     | 8.28      | 0.3496 | 0.5907 | 0.0596 | 81.5     | 30 552           | -1 552c          |      |
| 17 490           | -1 489c          | 78.03     | 94.93     | 8.28      | 0.4305 | 0.5237 | 0.0457 | 59.7     | 33 565           | 11 455           | max  |
| 18 495           | -1 494c          | 77.91     | 93.71     | 6.13      | 0.4382 | 0.5271 | 0.0345 | 58.5     | 33 565           | 11 458           |      |
| 20 500           | -1 500c          | 77.84     | 90.31     | 3.26      | 0.4541 | 0.5268 | 0.019  | 55.5     | 33 567           | 12 463           |      |
| 21 510           | -1 509c          | 77.81     | 87.98     | 2.31      | 0.4628 | 0.5233 | 0.0137 | 53.4     | 33 568           | 13 465           |      |
| 23 520           | -1 519c          | 77.48     | 81.84     | 1.14      | 0.4828 | 0.51   | 0.0071 | 48.1     | 34 571           | 14 470           | Ym   |
| 26 530           | -1 530c          | 75.41     | 69.63     | 0.38      | 0.5185 | 0.4788 | 0.0026 | 37.9     | 35 576           | 15 475           |      |
| 27 540           | -1 539c          | 74.15     | 65.08     | 0.26      | 0.5315 | 0.4665 | 0.0018 | 34.1     | 35 578           | 15 477           |      |
| 28 545           | -1 544c          | 72.59     | 60.41     | 0.18      | 0.545  | 0.4536 | 0.0013 | 30.3     | 36 580           | 15 478           |      |
| 29 550           | -1 549c          | 70.69     | 55.69     | 0.13      | 0.5587 | 0.4402 | 0.001  | 26.5     | 36 582           | 15 479           |      |
| 30 555           | -1 554c          | 68.45     | 50.96     | 0.09      | 0.5727 | 0.4264 | 0.0007 | 22.7     | 36 584           | 16 480           |      |
| 31 560           | -1 559c          | 65.85     | 46.27     | 0.07      | 0.5869 | 0.4124 | 0.0006 | 19.2     | 37 587           | 16 481           |      |
| 32 562           | 1 405            | 63.62     | 42.1      | 2.18      | 0.5895 | 0.3901 | 0.0202 | 14.8     | 38 590           | 16 482           | Rm   |
| 32 562           | 7 435            | 70.19     | 41.61     | 37.05     | 0.4715 | 0.2795 | 0.2488 | 347.5    | -1 488c          | 17 488           |      |
| 32 564           | 10 450           | 74.95     | 40.8      | 66.84     | 0.4104 | 0.2234 | 0.366  | 317.7    | -1 497c          | 19 497           |      |
| 33 566           | 11 460           | 75.34     | 39.41     | 76.28     | 0.3943 | 0.2062 | 0.3993 | 308.0    | -1 502c          | 20 502           |      |
| 33 568           | 12 465           | 75.64     | 38.29     | 85.07     | 0.3801 | 0.1924 | 0.4274 | 300.0    | -1 508c          | 21 508           |      |
| 34 570           | 14 470           | 75.89     | 37.02     | 99.05     | 0.358  | 0.1746 | 0.4672 | 289.2    | -1 522c          | 24 522           |      |
| 35 575           | 15 475           | 73.2      | 34.09     | 104.03    | 0.3464 | 0.1613 | 0.4922 | 283.6    | -1 530c          | 26 530           | Mm   |
| 36 582           | 16 480           | 66.96     | 28.88     | 107.82    | 0.3287 | 0.1418 | 0.5293 | 276.5    | -1 539c          | 27 539           |      |
| 40 602           | 17 485           | 49.42     | 18.04     | 110.67    | 0.2774 | 0.1012 | 0.6212 | 261.6    | -1 552c          | 30 552           |      |
| -1 489c          | 17 490           | 19.89     | 5.06      | 110.66    | 0.1466 | 0.0373 | 0.8159 | 239.7    | 11 455           | 33 565           | min  |
| -1 494c          | 18 495           | 20.01     | 6.28      | 112.81    | 0.1438 | 0.0451 | 0.8109 | 238.5    | 11 458           | 33 565           |      |
| -1 500c          | 20 500           | 20.08     | 9.68      | 115.69    | 0.138  | 0.0665 | 0.7953 | 235.5    | 12 463           | 33 567           |      |
| -1 509c          | 21 510           | 20.11     | 12.01     | 116.64    | 0.1352 | 0.0807 | 0.784  | 233.5    | 13 465           | 33 568           |      |
| -1 519c          | 23 520           | 20.44     | 18.15     | 117.8     | 0.1307 | 0.116  | 0.7532 | 228.2    | 14 470           | 34 571           | Bm   |
| -1 530c          | 26 530           | 22.51     | 30.36     | 118.56    | 0.1313 | 0.177  | 0.6915 | 217.9    | 15 475           | 35 576           |      |
| -1 539c          | 27 540           | 23.77     | 34.91     | 118.69    | 0.134  | 0.1968 | 0.6691 | 214.1    | 15 477           | 35 578           |      |
| -1 544c          | 28 545           | 25.34     | 39.58     | 118.77    | 0.1379 | 0.2154 | 0.6465 | 210.3    | 15 478           | 36 580           |      |
| -1 549c          | 29 550           | 27.23     | 44.3      | 118.82    | 0.143  | 0.2327 | 0.6241 | 206.5    | 15 479           | 36 582           |      |
| -1 554c          | 30 555           | 29.48     | 49.03     | 118.85    | 0.1493 | 0.2484 | 0.6021 | 202.8    | 16 480           | 36 584           |      |
| -1 559c          | 31 560           | 32.08     | 53.72     | 118.88    | 0.1567 | 0.2624 | 0.5807 | 199.2    | 16 481           | 37 587           |      |
| 380              | 770              | 97.93     | 100.0     | 118.95    | 0.309  | 0.3155 | 0.3753 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, Q00,  $Y_w=88,6$ , Parameter:  $c_{ab}$

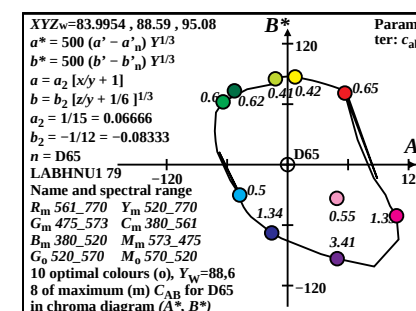
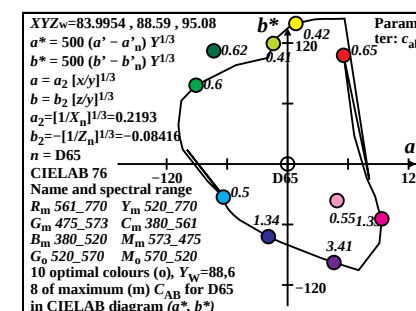
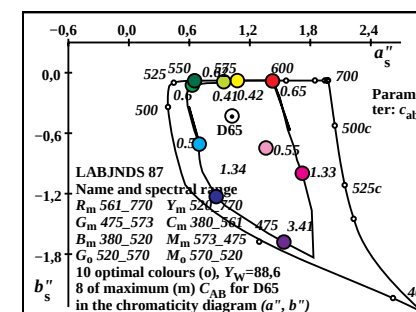
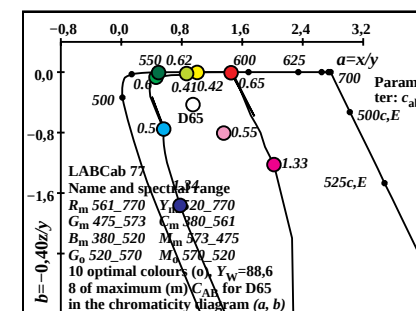
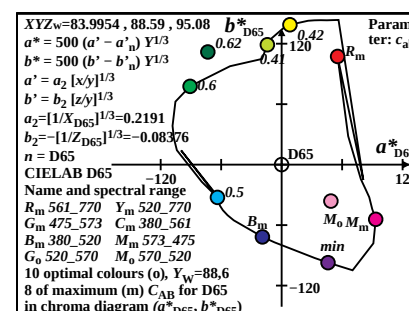
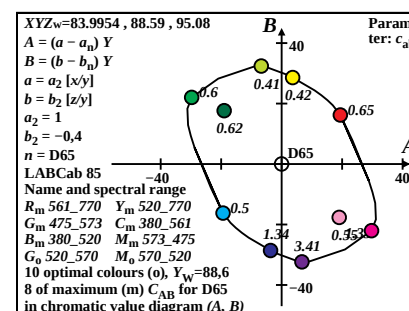
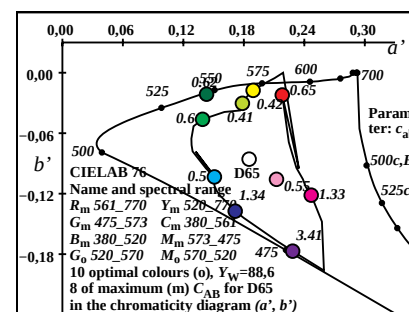
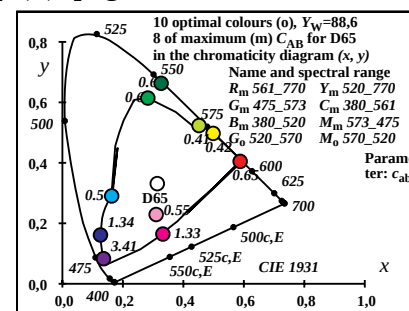


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D65,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 0 405            | 31 556           | 31.74     | 56.57     | 106.53    | 0.1629 | 0.2903 | 0.5467 | 195.0    | 15 476           | 37 585           | Cm   |
| 6 435            | 31 557           | 28.0      | 57.42     | 83.63     | 0.1656 | 0.3396 | 0.4947 | 176.6    | 16 480           | 44 621           |      |
| 10 450           | 31 559           | 22.06     | 57.53     | 46.52     | 0.1749 | 0.4561 | 0.3689 | 137.9    | 18 491           | -1 491c          |      |
| 11 460           | 32 562           | 22.29     | 59.27     | 37.3      | 0.1875 | 0.4986 | 0.3137 | 126.9    | 19 498           | -1 498c          |      |
| 12 465           | 33 565           | 22.82     | 60.92     | 28.98     | 0.2025 | 0.5403 | 0.2571 | 117.9    | 21 506           | -1 506c          |      |
| 14 470           | 34 570           | 24.62     | 63.07     | 16.02     | 0.2373 | 0.6081 | 0.1544 | 105.3    | 24 522           | -1 522c          |      |
| 15 475           | 35 579           | 31.53     | 68.64     | 11.53     | 0.2822 | 0.6144 | 0.1032 | 96.3     | 26 533           | -1 533c          | Gm   |
| 16 480           | 41 606           | 54.03     | 81.94     | 8.23      | 0.3746 | 0.5682 | 0.0571 | 75.5     | 30 550           | -1 550c          |      |
| 16 485           | -1 484c          | 77.05     | 92.3      | 8.23      | 0.4339 | 0.5197 | 0.0463 | 57.5     | 32 560           | 10 454           |      |
| 18 490           | -1 490c          | 76.87     | 89.06     | 4.2       | 0.4518 | 0.5234 | 0.0247 | 54.3     | 32 562           | 11 459           | max  |
| 19 495           | -1 495c          | 76.85     | 87.05     | 2.97      | 0.4605 | 0.5216 | 0.0178 | 52.4     | 32 563           | 12 461           |      |
| 19 500           | -1 499c          | 76.85     | 87.05     | 2.97      | 0.4605 | 0.5216 | 0.0178 | 52.4     | 32 563           | 12 461           |      |
| 22 510           | -1 510c          | 76.43     | 79.1      | 1.01      | 0.4882 | 0.5052 | 0.0064 | 44.9     | 33 566           | 13 466           |      |
| 23 520           | -1 519c          | 76.0      | 75.81     | 0.68      | 0.4983 | 0.4971 | 0.0045 | 41.9     | 33 568           | 13 468           | Ym   |
| 26 530           | -1 530c          | 73.15     | 64.17     | 0.16      | 0.532  | 0.4667 | 0.0012 | 31.8     | 34 573           | 14 472           |      |
| 27 540           | -1 539c          | 71.61     | 59.9      | 0.08      | 0.5441 | 0.4551 | 0.0006 | 28.3     | 35 576           | 14 473           |      |
| 28 545           | -1 544c          | 69.75     | 55.54     | 0.04      | 0.5565 | 0.4431 | 0.0003 | 24.7     | 35 578           | 14 474           |      |
| 29 550           | -1 549c          | 67.56     | 51.12     | 0.01      | 0.5691 | 0.4306 | 0.0001 | 21.3     | 36 580           | 15 475           |      |
| 31 555           | -1 555c          | 62.15     | 42.37     | 0.0       | 0.5946 | 0.4053 | 0.0    | 14.8     | 37 586           | 15 476           |      |
| 32 560           | 10 451           | 70.49     | 40.04     | 58.45     | 0.4171 | 0.2369 | 0.3458 | 317.7    | -1 492c          | 18 492           |      |
| 31 556           | 0 405            | 63.06     | 43.42     | 0.8       | 0.5877 | 0.4047 | 0.0074 | 15.0     | 37 585           | 15 476           | Rm   |
| 31 557           | 6 435            | 66.81     | 42.57     | 23.7      | 0.5019 | 0.3199 | 0.178  | 356.6    | 44 621           | 16 480           |      |
| 31 559           | 10 450           | 72.75     | 42.46     | 60.8      | 0.4132 | 0.2412 | 0.3454 | 317.9    | -1 491c          | 18 491           |      |
| 32 562           | 11 460           | 72.51     | 40.72     | 70.03     | 0.3956 | 0.2222 | 0.3821 | 307.0    | -1 498c          | 19 498           |      |
| 33 565           | 12 465           | 71.98     | 39.07     | 78.34     | 0.38   | 0.2063 | 0.4136 | 298.0    | -1 506c          | 21 506           |      |
| 34 570           | 14 470           | 70.19     | 36.92     | 91.31     | 0.3537 | 0.186  | 0.4601 | 285.4    | -1 522c          | 24 522           |      |
| 35 579           | 15 475           | 63.28     | 31.35     | 95.79     | 0.3323 | 0.1646 | 0.503  | 276.3    | -1 533c          | 26 533           | Mm   |
| 41 606           | 16 480           | 40.77     | 18.05     | 99.09     | 0.2581 | 0.1143 | 0.6275 | 255.6    | -1 550c          | 30 550           |      |
| -1 484c          | 16 485           | 17.75     | 7.69      | 99.09     | 0.1425 | 0.0618 | 0.7956 | 237.5    | 10 454           | 32 560           |      |
| -1 490c          | 18 490           | 17.94     | 10.93     | 103.13    | 0.1359 | 0.0828 | 0.7812 | 234.3    | 11 459           | 32 562           | min  |
| -1 495c          | 19 495           | 17.96     | 12.94     | 104.35    | 0.1327 | 0.0957 | 0.7714 | 232.4    | 12 461           | 32 563           |      |
| -1 499c          | 19 500           | 17.96     | 12.94     | 104.35    | 0.1327 | 0.0957 | 0.7714 | 232.4    | 12 461           | 32 563           |      |
| -1 510c          | 22 510           | 18.38     | 20.89     | 106.32    | 0.1262 | 0.1435 | 0.7302 | 224.9    | 13 466           | 33 566           |      |
| -1 519c          | 23 520           | 18.8      | 24.18     | 106.64    | 0.1256 | 0.1616 | 0.7126 | 222.0    | 13 468           | 33 568           | Bm   |
| -1 530c          | 26 530           | 21.65     | 35.82     | 107.16    | 0.1315 | 0.2175 | 0.6508 | 211.8    | 14 472           | 34 573           |      |
| -1 539c          | 27 540           | 23.19     | 40.09     | 107.24    | 0.136  | 0.2351 | 0.6288 | 208.3    | 14 473           | 35 576           |      |
| -1 544c          | 28 545           | 25.05     | 44.45     | 107.29    | 0.1417 | 0.2514 | 0.6068 | 204.8    | 14 474           | 35 578           |      |
| -1 549c          | 29 550           | 27.25     | 48.87     | 107.32    | 0.1485 | 0.2664 | 0.585  | 201.3    | 15 475           | 36 580           |      |
| -1 555c          | 31 555           | 32.65     | 57.62     | 107.33    | 0.1652 | 0.2916 | 0.5431 | 194.8    | 15 476           | 37 586           |      |
| 10 451           | 32 560           | 24.31     | 59.95     | 48.88     | 0.1826 | 0.4502 | 0.367  | 137.6    | 18 492           | -1 492c          |      |
| 380              | 770              | 94.81     | 100.0     | 107.33    | 0.3137 | 0.3309 | 0.3552 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, D65,  $Y_w=100$ , Parameter:  $c_{ab}$

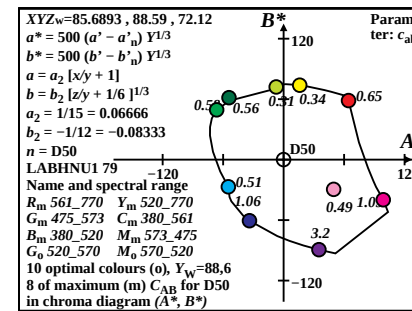
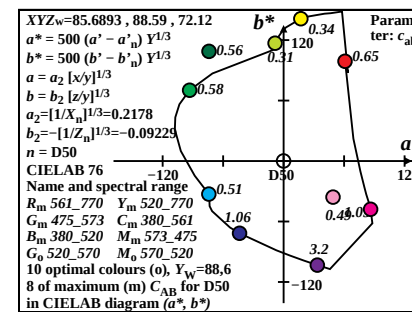
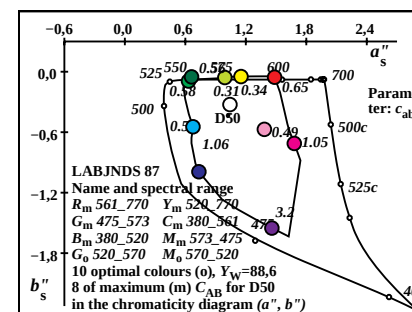
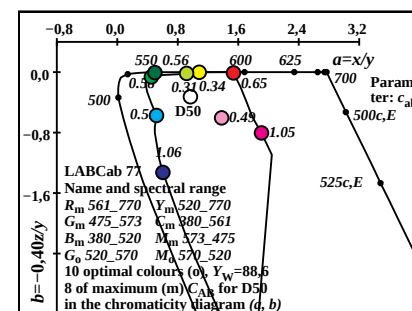
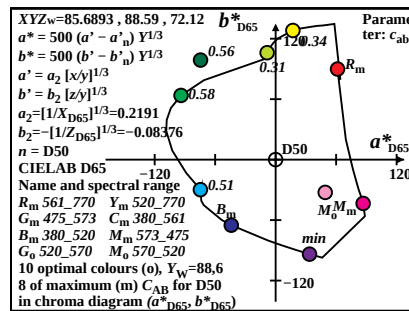
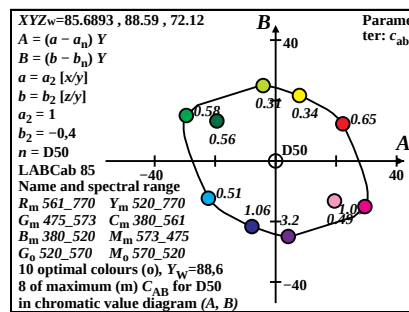
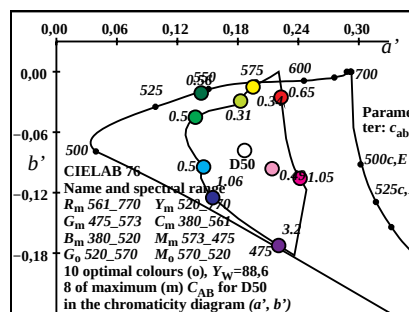
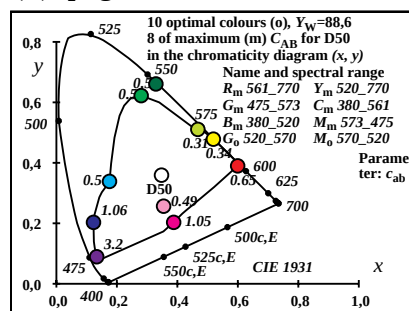


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D50,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 31 559           | 29.04     | 55.95     | 80.21     | 0.1757 | 0.3387 | 0.4855 | 186.9    | 15 479           | 37 589           | Cm   |
| 7 435            | 32 561           | 25.67     | 56.42     | 59.78     | 0.1809 | 0.3976 | 0.4213 | 167.1    | 16 484           | 58 693           |      |
| 10 450           | 32 562           | 22.51     | 56.65     | 38.02     | 0.1921 | 0.4834 | 0.3244 | 141.4    | 18 493           | -1 493c          |      |
| 12 460           | 32 564           | 21.57     | 57.41     | 24.27     | 0.2089 | 0.5559 | 0.2351 | 125.2    | 20 503           | -1 503c          |      |
| 13 465           | 33 566           | 22.22     | 58.48     | 18.53     | 0.2239 | 0.5892 | 0.1867 | 118.2    | 22 512           | -1 512c          |      |
| 14 470           | 34 570           | 24.31     | 60.63     | 13.78     | 0.2462 | 0.614  | 0.1396 | 111.7    | 24 521           | -1 521c          |      |
| 15 475           | 35 576           | 29.05     | 64.51     | 10.07     | 0.2803 | 0.6224 | 0.0971 | 104.3    | 26 531           | -1 531c          | Gm   |
| 16 480           | 38 590           | 41.29     | 72.88     | 7.29      | 0.3399 | 0.6    | 0.06   | 91.8     | 28 543           | -1 543c          |      |
| 17 485           | -1 485c          | 83.47     | 92.6      | 5.28      | 0.4602 | 0.5105 | 0.0291 | 53.2     | 32 563           | 11 458           |      |
| 18 490           | -1 490c          | 83.43     | 91.1      | 3.82      | 0.4677 | 0.5107 | 0.0214 | 51.5     | 32 564           | 12 460           | max  |
| 19 495           | -1 495c          | 83.41     | 89.32     | 2.74      | 0.4753 | 0.509  | 0.0156 | 49.5     | 33 565           | 12 462           |      |
| 20 500           | -1 500c          | 83.37     | 87.23     | 1.95      | 0.4831 | 0.5055 | 0.0113 | 47.1     | 33 566           | 12 464           |      |
| 21 510           | -1 509c          | 83.25     | 84.82     | 1.37      | 0.4912 | 0.5005 | 0.0081 | 44.4     | 33 567           | 13 466           |      |
| 24 520           | -1 520c          | 81.99     | 75.59     | 0.44      | 0.5188 | 0.4783 | 0.0027 | 34.7     | 34 571           | 14 471           | Ym   |
| 25 530           | -1 529c          | 81.09     | 71.83     | 0.27      | 0.5293 | 0.4688 | 0.0018 | 31.0     | 34 573           | 14 473           |      |
| 28 540           | -1 540c          | 76.53     | 59.32     | 0.04      | 0.5631 | 0.4365 | 0.0002 | 19.6     | 35 579           | 15 476           |      |
| 29 545           | -1 545c          | 74.34     | 54.91     | 0.01      | 0.575  | 0.4248 | 0.0001 | 16.0     | 36 581           | 15 477           |      |
| 29 550           | -1 549c          | 74.34     | 54.91     | 0.01      | 0.575  | 0.4248 | 0.0001 | 16.0     | 36 581           | 15 477           |      |
| 31 555           | -1 555c          | 68.87     | 46.06     | 0.0       | 0.5991 | 0.4008 | 0.0    | 9.3      | 37 587           | 15 479           |      |
| 32 560           | 2 411            | 66.04     | 41.79     | 2.01      | 0.6012 | 0.3804 | 0.0183 | 4.7      | 38 591           | 16 480           |      |
| 31 559           | 1 405            | 67.68     | 44.04     | 1.19      | 0.5993 | 0.39   | 0.0106 | 6.9      | 37 589           | 15 479           | Rm   |
| 32 561           | 7 435            | 71.05     | 43.57     | 21.62     | 0.5214 | 0.3198 | 0.1587 | 347.1    | 58 693           | 16 484           |      |
| 32 562           | 10 450           | 74.21     | 43.34     | 43.39     | 0.461  | 0.2693 | 0.2695 | 321.5    | -1 493c          | 18 493           |      |
| 32 564           | 12 460           | 75.15     | 42.58     | 57.13     | 0.4297 | 0.2435 | 0.3267 | 305.2    | -1 503c          | 20 503           |      |
| 33 566           | 13 465           | 74.5      | 41.51     | 62.87     | 0.4164 | 0.232  | 0.3514 | 298.3    | -1 512c          | 22 512           |      |
| 34 570           | 14 470           | 72.4      | 39.36     | 67.62     | 0.4036 | 0.2194 | 0.3769 | 291.7    | -1 521c          | 24 521           |      |
| 35 576           | 15 475           | 67.66     | 35.48     | 71.33     | 0.3877 | 0.2033 | 0.4088 | 284.4    | -1 531c          | 26 531           | Mm   |
| 38 590           | 16 480           | 55.43     | 27.11     | 74.11     | 0.3538 | 0.173  | 0.473  | 271.8    | -1 543c          | 28 543           |      |
| -1 485c          | 17 485           | 13.25     | 7.39      | 76.12     | 0.1369 | 0.0764 | 0.7866 | 233.3    | 11 458           | 32 563           |      |
| -1 490c          | 18 490           | 13.29     | 8.89      | 77.58     | 0.1332 | 0.0891 | 0.7775 | 231.5    | 12 460           | 32 564           | min  |
| -1 495c          | 19 495           | 13.31     | 10.67     | 78.66     | 0.1296 | 0.104  | 0.7663 | 229.5    | 12 462           | 33 565           |      |
| -1 500c          | 20 500           | 13.35     | 12.76     | 79.45     | 0.1264 | 0.1208 | 0.7526 | 227.1    | 12 464           | 33 566           |      |
| -1 509c          | 21 510           | 13.46     | 15.17     | 80.03     | 0.1239 | 0.1396 | 0.7364 | 224.5    | 13 466           | 33 567           |      |
| -1 520c          | 24 520           | 14.72     | 24.4      | 80.97     | 0.1226 | 0.2032 | 0.6741 | 214.7    | 14 471           | 34 571           | Bm   |
| -1 529c          | 25 530           | 15.63     | 28.16     | 81.13     | 0.1251 | 0.2254 | 0.6494 | 211.0    | 14 473           | 34 573           |      |
| -1 540c          | 28 540           | 20.18     | 40.67     | 81.37     | 0.1419 | 0.2859 | 0.572  | 199.6    | 15 476           | 35 579           |      |
| -1 545c          | 29 545           | 22.38     | 45.08     | 81.39     | 0.1503 | 0.3028 | 0.5467 | 196.0    | 15 477           | 36 581           |      |
| -1 549c          | 29 550           | 22.38     | 45.08     | 81.39     | 0.1503 | 0.3028 | 0.5467 | 196.0    | 15 477           | 36 581           |      |
| -1 555c          | 31 555           | 27.85     | 53.93     | 81.41     | 0.1706 | 0.3304 | 0.4988 | 189.3    | 15 479           | 37 587           |      |
| 2 411            | 32 560           | 30.68     | 58.2      | 79.4      | 0.1823 | 0.3458 | 0.4718 | 184.7    | 16 480           | 38 591           |      |
| 380              | 770              | 96.72     | 99.99     | 81.41     | 0.3477 | 0.3595 | 0.2927 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, D50,  $Y_w=100$ ,  $Y_m=520\_770$ , Parameter:  $c_{ab}$

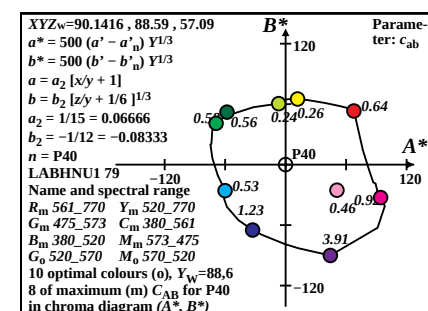
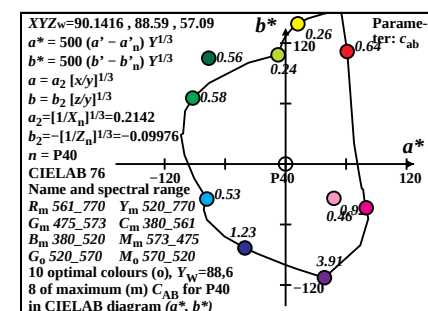
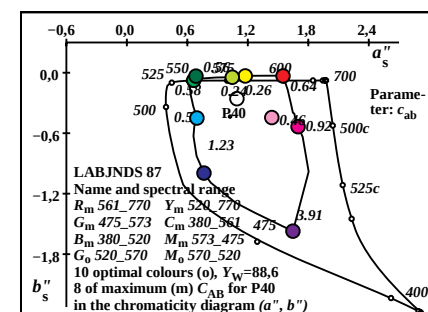
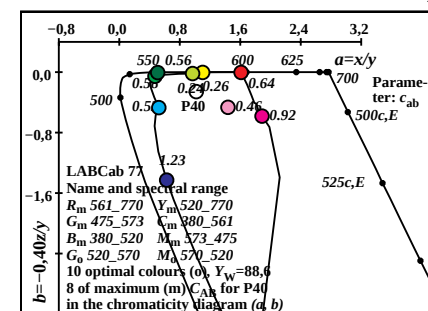
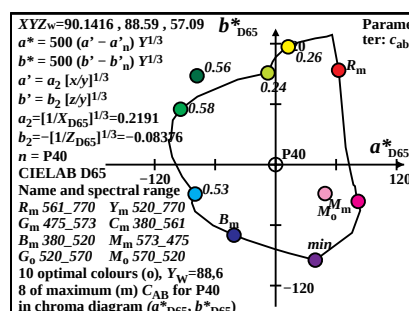
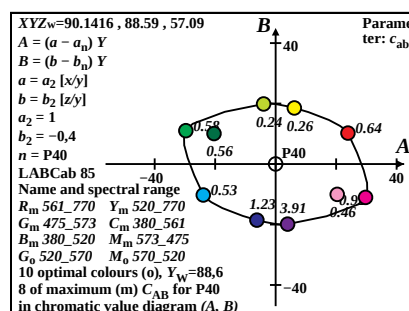
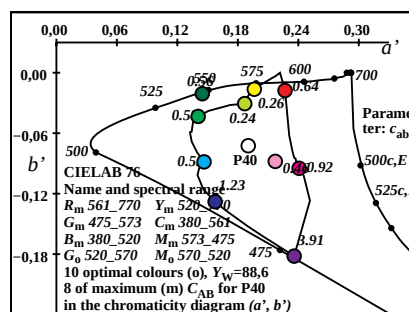
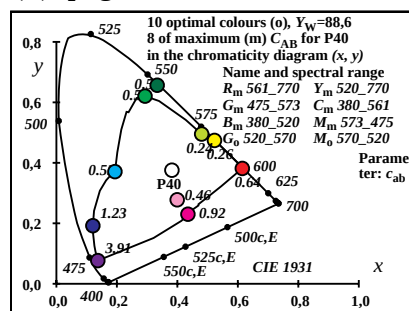


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for P40,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 0 405            | 32 563           | 28.47     | 54.51     | 64.02     | 0.1937 | 0.3708 | 0.4354 | 181.4    | 16 481           | 38 591           | Cm   |
| 7 435            | 32 564           | 25.4      | 54.82     | 45.87     | 0.2014 | 0.4347 | 0.3638 | 161.8    | 17 487           | -1 487c          |      |
| 10 450           | 33 565           | 23.18     | 55.07     | 29.74     | 0.2146 | 0.5099 | 0.2753 | 141.2    | 19 495           | -1 495c          |      |
| 12 460           | 33 567           | 22.73     | 55.74     | 19.55     | 0.2319 | 0.5686 | 0.1994 | 127.9    | 21 505           | -1 505c          |      |
| 12 465           | 33 568           | 24.04     | 57.17     | 19.55     | 0.2386 | 0.5673 | 0.194  | 126.8    | 21 506           | -1 506c          |      |
| 14 470           | 34 571           | 25.22     | 58.4      | 11.45     | 0.2652 | 0.6142 | 0.1204 | 116.0    | 24 521           | -1 521c          |      |
| 15 475           | 35 576           | 29.04     | 61.5      | 8.53      | 0.2931 | 0.6206 | 0.0861 | 109.9    | 26 531           | -1 531c          | Gm   |
| 16 480           | 37 585           | 38.18     | 67.98     | 6.3       | 0.3394 | 0.6044 | 0.056  | 100.5    | 28 542           | -1 542c          |      |
| 17 485           | 42 611           | 65.29     | 82.81     | 4.63      | 0.4274 | 0.5421 | 0.0303 | 74.7     | 31 558           | -1 558c          |      |
| 17 490           | -1 489c          | 91.31     | 94.15     | 4.63      | 0.4803 | 0.4952 | 0.0243 | 50.6     | 33 566           | 11 458           | max  |
| 19 495           | -1 495c          | 91.26     | 91.34     | 2.45      | 0.4931 | 0.4935 | 0.0132 | 46.7     | 33 568           | 12 463           |      |
| 20 500           | -1 500c          | 91.22     | 89.52     | 1.76      | 0.4998 | 0.4905 | 0.0096 | 44.3     | 33 569           | 13 465           |      |
| 22 510           | -1 510c          | 90.92     | 84.94     | 0.88      | 0.5143 | 0.4805 | 0.005  | 38.4     | 34 571           | 13 469           |      |
| 23 520           | -1 519c          | 90.55     | 82.13     | 0.61      | 0.5225 | 0.4739 | 0.0035 | 35.0     | 34 572           | 14 471           | Ym   |
| 25 530           | -1 529c          | 89.15     | 75.59     | 0.25      | 0.5403 | 0.4581 | 0.0015 | 27.5     | 35 575           | 14 474           |      |
| 28 540           | -1 540c          | 84.88     | 63.89     | 0.03      | 0.5703 | 0.4293 | 0.0002 | 15.9     | 36 581           | 15 477           |      |
| 28 545           | -1 544c          | 84.88     | 63.89     | 0.03      | 0.5703 | 0.4293 | 0.0002 | 15.9     | 36 581           | 15 477           |      |
| 30 550           | -1 550c          | 80.29     | 55.35     | 0.0       | 0.5919 | 0.408  | 0.0    | 8.7      | 37 585           | 15 479           |      |
| 31 555           | -1 555c          | 77.38     | 50.95     | 0.0       | 0.6029 | 0.397  | 0.0    | 5.5      | 37 587           | 16 480           |      |
| 31 560           | -1 559c          | 77.38     | 50.95     | 0.0       | 0.6029 | 0.397  | 0.0    | 5.5      | 37 587           | 16 480           |      |
| 32 563           | 0 405            | 73.27     | 45.48     | 0.42      | 0.6147 | 0.3816 | 0.0035 | 1.4      | 38 591           | 16 481           | Rm   |
| 32 564           | 7 435            | 76.34     | 45.17     | 18.57     | 0.5449 | 0.3224 | 0.1325 | 341.9    | -1 487c          | 17 487           |      |
| 33 565           | 10 450           | 78.56     | 44.92     | 34.7      | 0.4966 | 0.2839 | 0.2193 | 321.3    | -1 495c          | 19 495           |      |
| 33 567           | 12 460           | 79.01     | 44.25     | 44.88     | 0.4698 | 0.2631 | 0.2669 | 307.9    | -1 505c          | 21 505           |      |
| 33 568           | 12 465           | 77.7      | 42.82     | 44.88     | 0.4697 | 0.2589 | 0.2713 | 306.8    | -1 506c          | 21 506           |      |
| 34 571           | 14 470           | 76.52     | 41.59     | 52.99     | 0.4472 | 0.243  | 0.3097 | 296.1    | -1 521c          | 24 521           |      |
| 35 576           | 15 475           | 72.7      | 38.49     | 55.9      | 0.435  | 0.2303 | 0.3345 | 290.0    | -1 531c          | 26 531           | Mm   |
| 37 585           | 16 480           | 63.56     | 32.01     | 58.13     | 0.4135 | 0.2082 | 0.3782 | 280.6    | -1 542c          | 28 542           |      |
| 42 611           | 17 485           | 36.45     | 17.18     | 59.81     | 0.3213 | 0.1514 | 0.5272 | 254.8    | -1 558c          | 31 558           |      |
| -1 489c          | 17 490           | 10.43     | 5.84      | 59.81     | 0.1371 | 0.0767 | 0.786  | 230.6    | 11 458           | 33 566           | min  |
| -1 495c          | 19 495           | 10.48     | 8.65      | 61.99     | 0.1292 | 0.1066 | 0.764  | 226.7    | 12 463           | 33 568           |      |
| -1 500c          | 20 500           | 10.52     | 10.47     | 62.68     | 0.1257 | 0.1251 | 0.7491 | 224.3    | 13 465           | 33 569           |      |
| -1 510c          | 22 510           | 10.83     | 15.05     | 63.55     | 0.121  | 0.1683 | 0.7106 | 218.4    | 13 469           | 34 571           |      |
| -1 519c          | 23 520           | 11.19     | 17.86     | 63.83     | 0.1205 | 0.1922 | 0.6871 | 215.0    | 14 471           | 34 572           | Bm   |
| -1 529c          | 25 530           | 12.59     | 24.4      | 64.18     | 0.1244 | 0.2412 | 0.6343 | 207.5    | 14 474           | 35 575           |      |
| -1 540c          | 28 540           | 16.86     | 36.1      | 64.4      | 0.1436 | 0.3075 | 0.5487 | 195.9    | 15 477           | 36 581           |      |
| -1 544c          | 28 545           | 16.86     | 36.1      | 64.4      | 0.1436 | 0.3075 | 0.5487 | 195.9    | 15 477           | 36 581           |      |
| -1 550c          | 30 550           | 21.45     | 44.64     | 64.44     | 0.1643 | 0.342  | 0.4936 | 188.7    | 15 479           | 37 585           |      |
| -1 555c          | 31 555           | 24.36     | 49.04     | 64.44     | 0.1767 | 0.3557 | 0.4675 | 185.5    | 16 480           | 37 587           |      |
| -1 559c          | 31 560           | 24.36     | 49.04     | 64.44     | 0.1767 | 0.3557 | 0.4675 | 185.5    | 16 480           | 37 587           |      |
| 380              | 770              | 101.75    | 100.0     | 64.44     | 0.3822 | 0.3756 | 0.2421 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, P40,  $Y_w=100$ , Parameter:  $c_{ab}$

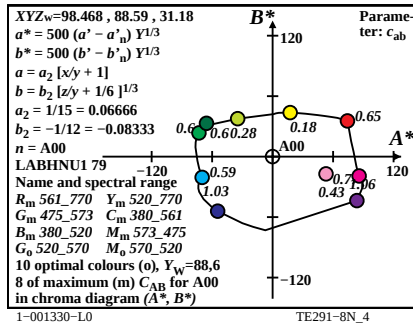
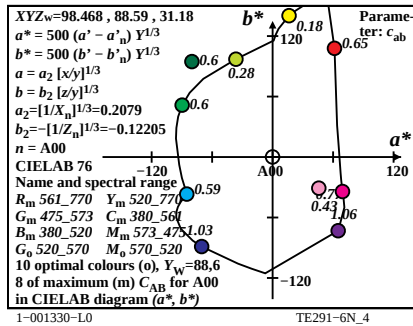
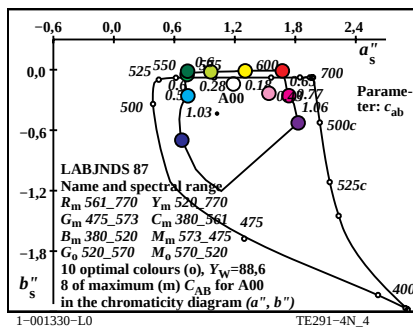
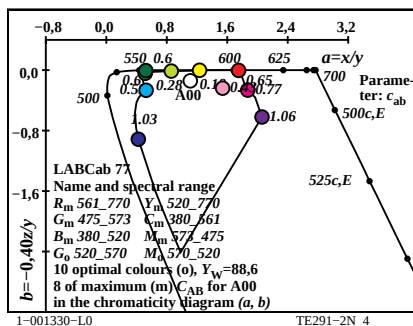
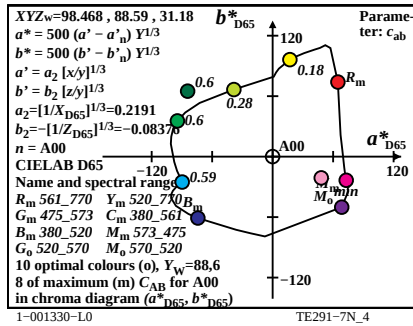
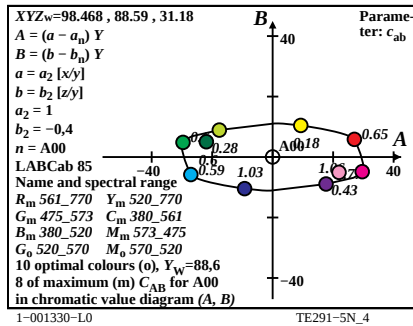
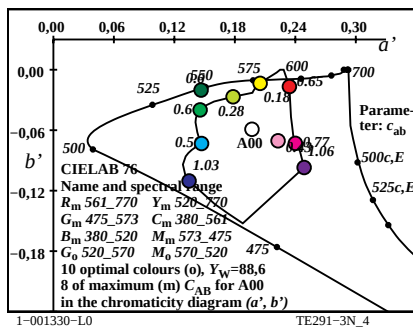
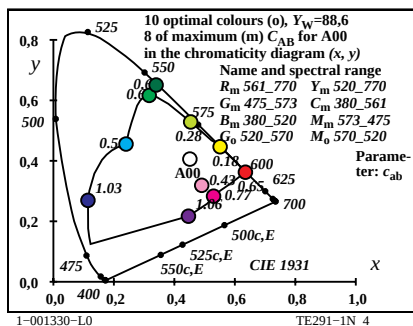


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for A00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 34 570           | 27.56     | 52.26     | 34.82     | 0.2404 | 0.4558 | 0.3037 | 166.6    | 17 487           | 39 597           | Cm   |
| 7 435            | 34 570           | 26.38     | 52.46     | 26.9      | 0.2494 | 0.4961 | 0.2544 | 155.9    | 18 491           | 47 639           |      |
| 9 450            | 34 571           | 25.87     | 52.77     | 21.46     | 0.2584 | 0.5271 | 0.2144 | 147.8    | 19 495           | -1 495c          |      |
| 12 460           | 34 572           | 25.18     | 52.99     | 12.78     | 0.2768 | 0.5826 | 0.1405 | 134.6    | 21 505           | -1 505c          |      |
| 13 465           | 34 573           | 25.59     | 53.47     | 10.16     | 0.2867 | 0.5992 | 0.1139 | 130.3    | 22 512           | -1 512c          |      |
| 14 470           | 34 574           | 26.64     | 54.4      | 7.89      | 0.2995 | 0.6116 | 0.0887 | 126.3    | 24 520           | -1 520c          |      |
| 15 475           | 35 576           | 28.78     | 55.98     | 6.04      | 0.3169 | 0.6164 | 0.0665 | 122.5    | 25 528           | -1 528c          | Gm   |
| 16 480           | 36 581           | 33.1      | 59.09     | 4.58      | 0.342  | 0.6105 | 0.0474 | 118.0    | 27 537           | -1 537c          |      |
| 17 485           | 37 588           | 41.89     | 64.82     | 3.45      | 0.3802 | 0.5884 | 0.0313 | 111.2    | 29 547           | -1 547c          |      |
| 18 490           | 41 609           | 67.88     | 78.98     | 2.58      | 0.4542 | 0.5284 | 0.0173 | 88.5     | 32 561           | -1 561c          | max  |
| 19 495           | -1 495c          | 105.71    | 94.47     | 1.92      | 0.523  | 0.4674 | 0.0095 | 40.5     | 34 573           | 13 465           |      |
| 20 500           | -1 500c          | 105.69    | 93.13     | 1.41      | 0.5278 | 0.4651 | 0.007  | 37.6     | 34 573           | 13 468           |      |
| 21 510           | -1 509c          | 105.61    | 91.52     | 1.03      | 0.5329 | 0.4618 | 0.0052 | 34.3     | 34 574           | 14 470           |      |
| 24 520           | -1 520c          | 104.68    | 84.75     | 0.35      | 0.5515 | 0.4465 | 0.0018 | 22.0     | 35 577           | 15 476           | Ym   |
| 25 530           | -1 529c          | 103.98    | 81.86     | 0.23      | 0.5588 | 0.4399 | 0.0012 | 17.5     | 35 578           | 15 477           |      |
| 27 540           | -1 539c          | 101.75    | 75.17     | 0.07      | 0.5748 | 0.4246 | 0.0004 | 8.6      | 36 581           | 16 480           |      |
| 29 545           | -1 545c          | 98.18     | 67.47     | 0.01      | 0.5926 | 0.4072 | 0.0    | 0.5      | 37 585           | 16 483           |      |
| 30 550           | -1 550c          | 95.8      | 63.33     | 0.0       | 0.602  | 0.3979 | 0.0    | 0.0      | 37 587           | 16 484           |      |
| 31 555           | -1 555c          | 92.94     | 59.02     | 0.0       | 0.6116 | 0.3883 | 0.0    | 353.7    | 37 589           | 17 485           |      |
| 32 560           | -1 560c          | 89.59     | 54.59     | 0.0       | 0.6213 | 0.3786 | 0.0    | 350.9    | 38 592           | 17 486           |      |
| 34 570           | 1 405            | 83.58     | 47.73     | 0.37      | 0.6346 | 0.3624 | 0.0028 | 346.6    | 39 597           | 17 487           | Rm   |
| 34 570           | 7 435            | 84.76     | 47.53     | 8.29      | 0.6029 | 0.338  | 0.0589 | 335.9    | 47 639           | 18 491           |      |
| 34 571           | 9 450            | 85.27     | 47.22     | 13.73     | 0.5831 | 0.3229 | 0.0939 | 327.8    | -1 495c          | 19 495           |      |
| 34 572           | 12 460           | 85.96     | 47.0      | 22.41     | 0.5532 | 0.3024 | 0.1442 | 314.6    | -1 505c          | 21 505           |      |
| 34 573           | 13 465           | 85.55     | 46.52     | 25.03     | 0.5445 | 0.2961 | 0.1593 | 310.4    | -1 512c          | 22 512           |      |
| 34 574           | 14 470           | 84.5      | 45.59     | 27.3      | 0.5368 | 0.2896 | 0.1734 | 306.4    | -1 520c          | 24 520           |      |
| 35 576           | 15 475           | 82.36     | 44.01     | 29.15     | 0.5295 | 0.2829 | 0.1874 | 302.5    | -1 528c          | 25 528           | Mm   |
| 36 581           | 16 480           | 78.04     | 40.9      | 30.61     | 0.5218 | 0.2735 | 0.2046 | 298.1    | -1 537c          | 27 537           |      |
| 37 588           | 17 485           | 69.25     | 35.17     | 31.74     | 0.5086 | 0.2582 | 0.2331 | 291.2    | -1 547c          | 29 547           |      |
| 41 609           | 18 490           | 43.26     | 21.01     | 32.61     | 0.4465 | 0.2169 | 0.3365 | 268.6    | -1 561c          | 32 561           | min  |
| -1 495c          | 19 495           | 5.43      | 5.52      | 33.27     | 0.1228 | 0.1248 | 0.7523 | 220.5    | 13 465           | 34 573           |      |
| -1 500c          | 20 500           | 5.45      | 6.86      | 33.78     | 0.1184 | 0.1488 | 0.7327 | 217.6    | 13 468           | 34 573           |      |
| -1 509c          | 21 510           | 5.53      | 8.47      | 34.16     | 0.1148 | 0.1759 | 0.7091 | 214.3    | 14 470           | 34 574           |      |
| -1 520c          | 24 520           | 6.46      | 15.24     | 34.84     | 0.1143 | 0.2695 | 0.616  | 202.0    | 15 476           | 35 577           | Bm   |
| -1 529c          | 25 530           | 7.16      | 18.13     | 34.96     | 0.1189 | 0.3009 | 0.5801 | 197.5    | 15 477           | 35 578           |      |
| -1 539c          | 27 540           | 9.39      | 24.82     | 35.12     | 0.1354 | 0.358  | 0.5065 | 188.6    | 16 480           | 36 581           |      |
| -1 545c          | 29 545           | 12.96     | 32.52     | 35.18     | 0.1606 | 0.4031 | 0.4361 | 180.5    | 16 483           | 37 585           |      |
| -1 550c          | 30 550           | 15.34     | 36.66     | 35.19     | 0.1759 | 0.4204 | 0.4035 | 176.9    | 16 484           | 37 587           |      |
| -1 555c          | 31 555           | 18.2      | 40.97     | 35.19     | 0.1928 | 0.4341 | 0.3729 | 173.7    | 17 485           | 37 589           |      |
| -1 560c          | 32 560           | 21.55     | 45.4      | 35.19     | 0.211  | 0.4444 | 0.3445 | 170.8    | 17 486           | 38 592           |      |
| 380              | 770              | 111.15    | 99.99     | 35.19     | 0.4511 | 0.4059 | 0.1428 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, A00,  $Y_w=100$ ,  $Y_m=520\_770$ , Parameter:  $c_{ab}$

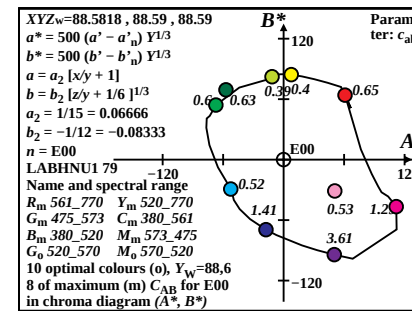
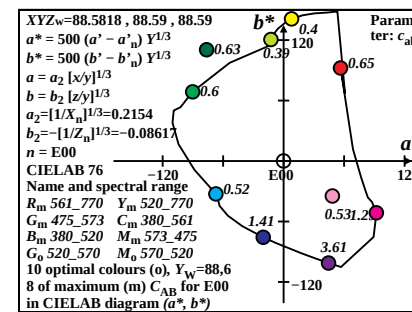
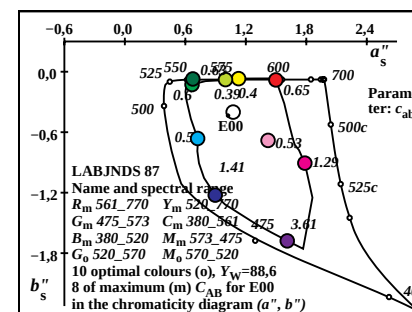
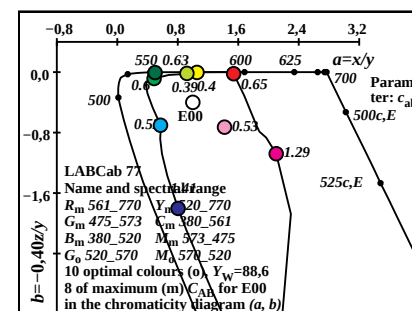
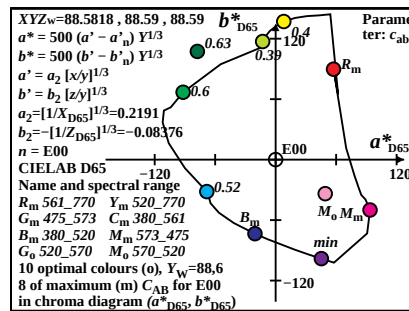
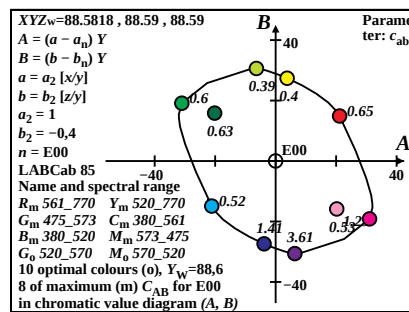
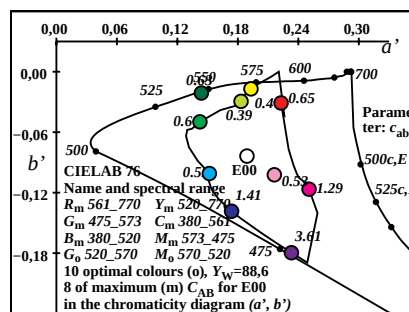
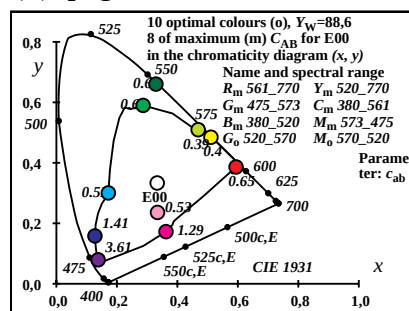


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for E00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 31 559           | 31.81     | 55.67     | 97.76     | 0.1717 | 0.3005 | 0.5277 | 191.4    | 15 477           | 37 589           | Cm   |
| 7 435            | 32 561           | 26.26     | 56.07     | 65.86     | 0.1772 | 0.3783 | 0.4444 | 163.8    | 16 484           | -1 484c          |      |
| 10 450           | 32 562           | 22.59     | 56.42     | 40.33     | 0.1893 | 0.4727 | 0.3379 | 135.9    | 18 493           | -1 493c          |      |
| 12 460           | 33 565           | 21.82     | 57.5      | 25.45     | 0.2082 | 0.5488 | 0.2429 | 120.1    | 21 506           | -1 506c          |      |
| 13 465           | 33 568           | 22.86     | 58.96     | 19.29     | 0.2261 | 0.583  | 0.1908 | 113.2    | 23 515           | -1 515c          |      |
| 13 470           | 34 572           | 26.58     | 62.72     | 19.29     | 0.2447 | 0.5775 | 0.1776 | 109.9    | 24 520           | -1 520c          |      |
| 14 475           | 36 581           | 33.17     | 68.2      | 14.26     | 0.2868 | 0.5897 | 0.1233 | 100.2    | 26 532           | -1 532c          | Gm   |
| 16 480           | 40 604           | 54.71     | 80.28     | 7.52      | 0.3839 | 0.5632 | 0.0528 | 77.5     | 30 551           | -1 551c          |      |
| 17 485           | -1 485c          | 83.11     | 91.81     | 5.41      | 0.4608 | 0.5091 | 0.03   | 54.0     | 32 564           | 11 456           |      |
| 18 490           | -1 490c          | 83.06     | 90.24     | 3.87      | 0.4688 | 0.5093 | 0.0218 | 52.3     | 32 564           | 11 458           | max  |
| 19 495           | -1 495c          | 83.04     | 88.4      | 2.76      | 0.4766 | 0.5074 | 0.0158 | 50.5     | 33 565           | 12 460           |      |
| 20 500           | -1 500c          | 83.0      | 86.28     | 1.95      | 0.4847 | 0.5038 | 0.0113 | 48.3     | 33 566           | 12 462           |      |
| 22 510           | -1 510c          | 82.66     | 81.07     | 0.95      | 0.5019 | 0.4922 | 0.0057 | 43.2     | 33 569           | 13 466           |      |
| 23 520           | -1 519c          | 82.25     | 77.97     | 0.64      | 0.5113 | 0.4846 | 0.004  | 40.3     | 34 570           | 13 468           | Ym   |
| 25 530           | -1 529c          | 80.75     | 70.93     | 0.26      | 0.5314 | 0.4668 | 0.0017 | 33.9     | 34 573           | 14 470           |      |
| 27 540           | -1 539c          | 78.13     | 63.03     | 0.08      | 0.5531 | 0.4462 | 0.0006 | 27.1     | 35 577           | 14 473           |      |
| 29 545           | -1 545c          | 74.25     | 54.64     | 0.01      | 0.576  | 0.4238 | 0.0001 | 20.4     | 36 582           | 15 475           |      |
| 29 550           | -1 549c          | 74.25     | 54.64     | 0.01      | 0.576  | 0.4238 | 0.0001 | 20.4     | 36 582           | 15 475           |      |
| 31 555           | -1 555c          | 68.97     | 46.09     | 0.0       | 0.5993 | 0.4005 | 0.0    | 14.1     | 37 587           | 15 476           |      |
| 32 560           | 3 415            | 67.16     | 41.99     | 6.5       | 0.5806 | 0.3631 | 0.0562 | 6.8      | 39 595           | 15 478           |      |
| 31 559           | 1 405            | 68.17     | 44.32     | 2.24      | 0.5941 | 0.3862 | 0.0195 | 11.4     | 37 589           | 15 477           | Rm   |
| 32 561           | 7 435            | 73.72     | 43.92     | 34.14     | 0.4857 | 0.2893 | 0.2249 | 343.9    | -1 484c          | 16 484           |      |
| 32 562           | 10 450           | 77.39     | 43.57     | 59.67     | 0.4284 | 0.2412 | 0.3303 | 315.9    | -1 493c          | 18 493           |      |
| 33 565           | 12 460           | 78.17     | 42.49     | 74.55     | 0.4004 | 0.2176 | 0.3819 | 300.1    | -1 506c          | 21 506           |      |
| 33 568           | 13 465           | 77.12     | 41.03     | 80.71     | 0.3878 | 0.2063 | 0.4058 | 293.2    | -1 515c          | 23 515           |      |
| 34 572           | 13 470           | 73.4      | 37.27     | 80.71     | 0.3835 | 0.1947 | 0.4217 | 289.9    | -1 520c          | 24 520           |      |
| 36 581           | 14 475           | 66.81     | 31.79     | 85.74     | 0.3624 | 0.1724 | 0.4651 | 280.2    | -1 532c          | 26 532           | Mm   |
| 40 604           | 16 480           | 45.27     | 19.71     | 92.48     | 0.2874 | 0.1252 | 0.5873 | 257.6    | -1 551c          | 30 551           |      |
| -1 485c          | 17 485           | 16.87     | 8.18      | 94.59     | 0.141  | 0.0683 | 0.7905 | 234.0    | 11 456           | 32 564           |      |
| -1 490c          | 18 490           | 16.92     | 9.75      | 96.13     | 0.1377 | 0.0794 | 0.7827 | 232.4    | 11 458           | 32 564           | min  |
| -1 495c          | 19 495           | 16.94     | 11.59     | 97.24     | 0.1346 | 0.0921 | 0.7731 | 230.5    | 12 460           | 33 565           |      |
| -1 500c          | 20 500           | 16.98     | 13.71     | 98.05     | 0.1319 | 0.1065 | 0.7615 | 228.4    | 12 462           | 33 566           |      |
| -1 510c          | 22 510           | 17.33     | 18.92     | 99.05     | 0.128  | 0.1398 | 0.732  | 223.3    | 13 466           | 33 569           |      |
| -1 519c          | 23 520           | 17.73     | 22.02     | 99.36     | 0.1274 | 0.1583 | 0.7141 | 220.3    | 13 468           | 34 570           | Bm   |
| -1 529c          | 25 530           | 19.23     | 29.06     | 99.74     | 0.1299 | 0.1963 | 0.6737 | 213.9    | 14 470           | 34 573           |      |
| -1 539c          | 27 540           | 21.85     | 36.96     | 99.92     | 0.1376 | 0.2328 | 0.6294 | 207.1    | 14 473           | 35 577           |      |
| -1 545c          | 29 545           | 25.73     | 45.35     | 99.99     | 0.1504 | 0.2651 | 0.5844 | 200.4    | 15 475           | 36 582           |      |
| -1 549c          | 29 550           | 25.73     | 45.35     | 99.99     | 0.1504 | 0.2651 | 0.5844 | 200.4    | 15 475           | 36 582           |      |
| -1 555c          | 31 555           | 31.01     | 53.9      | 100.0     | 0.1677 | 0.2914 | 0.5407 | 194.1    | 15 476           | 37 587           |      |
| 3 415            | 32 560           | 32.82     | 58.0      | 93.5      | 0.178  | 0.3146 | 0.5072 | 186.8    | 15 478           | 39 595           |      |
| 380              | 770              | 99.99     | 99.99     | 100.0     | 0.3333 | 0.3333 | 0.3333 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, E00,  $Y_w=100$ , Parameter:  $c_{ab}$

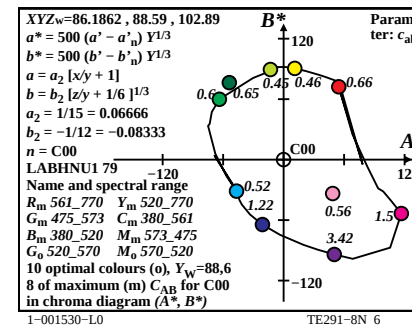
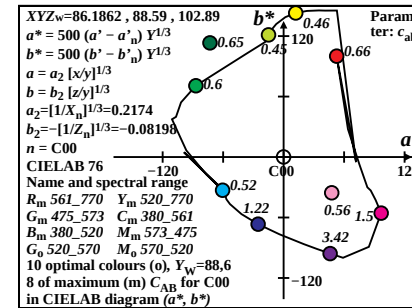
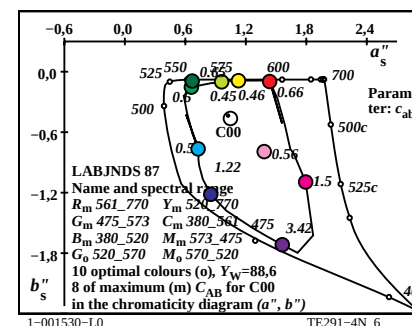
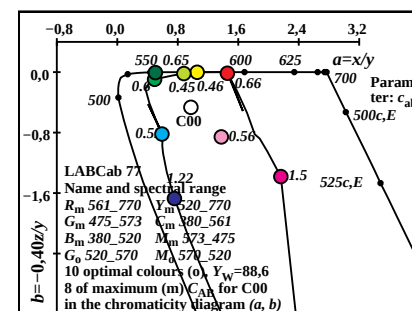
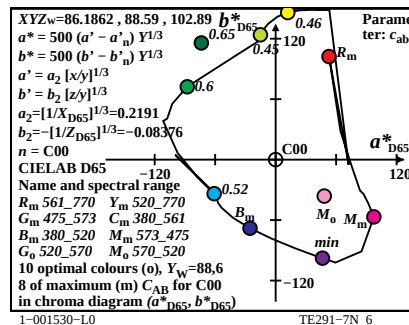
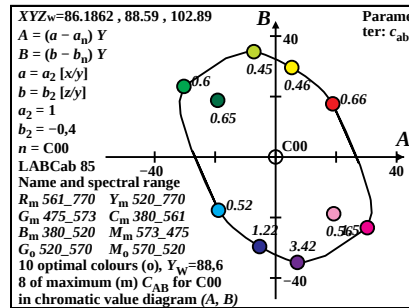
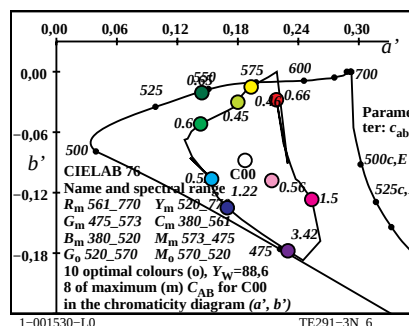
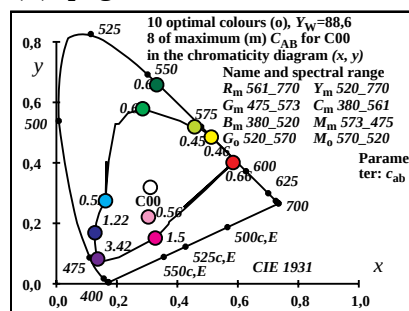


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for C00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 31 556           | 33.05     | 55.88     | 114.54    | 0.1624 | 0.2746 | 0.5629 | 196.7    | 15 475           | 37 586           | Cm   |
| 6 435            | 31 558           | 29.02     | 56.84     | 89.59     | 0.1654 | 0.3239 | 0.5106 | 178.0    | 16 480           | 44 623           |      |
| 9 450            | 32 560           | 24.41     | 57.53     | 59.0      | 0.1732 | 0.4081 | 0.4185 | 146.9    | 17 487           | -1 487c          |      |
| 12 460           | 32 563           | 21.53     | 58.32     | 30.51     | 0.1951 | 0.5284 | 0.2764 | 118.8    | 20 504           | -1 504c          |      |
| 12 465           | 33 566           | 23.84     | 60.99     | 30.51     | 0.2066 | 0.5287 | 0.2645 | 116.2    | 21 507           | -1 507c          |      |
| 13 470           | 34 572           | 27.07     | 64.68     | 22.96     | 0.236  | 0.5638 | 0.2001 | 106.8    | 24 520           | -1 520c          |      |
| 14 475           | 36 582           | 35.09     | 71.25     | 16.77     | 0.285  | 0.5787 | 0.1362 | 95.5     | 26 533           | -1 533c          | Gm   |
| 16 480           | 44 622           | 65.72     | 86.65     | 8.48      | 0.4085 | 0.5386 | 0.0527 | 65.8     | 31 556           | 0 403            |      |
| 17 485           | -1 485c          | 77.8      | 90.11     | 5.93      | 0.4475 | 0.5183 | 0.0341 | 55.4     | 32 562           | 11 456           |      |
| 18 490           | -1 490c          | 77.75     | 88.26     | 4.11      | 0.457  | 0.5188 | 0.0241 | 53.7     | 32 563           | 11 459           | max  |
| 19 495           | -1 495c          | 77.72     | 86.17     | 2.83      | 0.4661 | 0.5168 | 0.017  | 51.7     | 32 564           | 12 461           |      |
| 20 500           | -1 500c          | 77.68     | 83.86     | 1.95      | 0.4751 | 0.5129 | 0.0119 | 49.6     | 33 565           | 12 463           |      |
| 22 510           | -1 510c          | 77.33     | 78.57     | 0.93      | 0.493  | 0.5009 | 0.0059 | 44.8     | 33 567           | 13 466           |      |
| 24 520           | -1 520c          | 76.34     | 72.29     | 0.42      | 0.5121 | 0.485  | 0.0028 | 39.4     | 34 570           | 13 468           | Ym   |
| 26 530           | -1 530c          | 74.35     | 64.98     | 0.16      | 0.5329 | 0.4658 | 0.0011 | 33.3     | 34 574           | 14 471           |      |
| 28 540           | -1 540c          | 71.07     | 56.66     | 0.04      | 0.5561 | 0.4434 | 0.0003 | 26.8     | 35 578           | 14 473           |      |
| 28 545           | -1 544c          | 71.07     | 56.66     | 0.04      | 0.5561 | 0.4434 | 0.0003 | 26.8     | 35 578           | 14 473           |      |
| 29 550           | -1 549c          | 68.88     | 52.27     | 0.01      | 0.5684 | 0.4314 | 0.0001 | 23.5     | 36 580           | 14 474           |      |
| 31 555           | -1 555c          | 63.34     | 43.32     | 0.0       | 0.5938 | 0.4061 | 0.0    | 17.0     | 37 585           | 15 475           |      |
| 31 560           | 9 447            | 74.86     | 45.07     | 57.94     | 0.4208 | 0.2533 | 0.3257 | 329.3    | -1 487c          | 17 487           |      |
| 31 556           | 1 405            | 64.23     | 44.11     | 1.6       | 0.5841 | 0.4012 | 0.0145 | 16.7     | 37 586           | 15 475           | Rm   |
| 31 558           | 6 435            | 68.25     | 43.15     | 26.54     | 0.4947 | 0.3128 | 0.1924 | 358.0    | 44 623           | 16 480           |      |
| 32 560           | 9 450            | 72.86     | 42.46     | 57.14     | 0.4224 | 0.2462 | 0.3313 | 327.0    | -1 487c          | 17 487           |      |
| 32 563           | 12 460           | 75.75     | 41.67     | 85.63     | 0.373  | 0.2052 | 0.4217 | 298.8    | -1 504c          | 20 504           |      |
| 33 566           | 12 465           | 73.44     | 39.0      | 85.63     | 0.3707 | 0.1969 | 0.4323 | 296.3    | -1 507c          | 21 507           |      |
| 34 572           | 13 470           | 70.2      | 35.31     | 93.18     | 0.3533 | 0.1777 | 0.4689 | 286.9    | -1 520c          | 24 520           |      |
| 36 582           | 14 475           | 62.19     | 28.74     | 99.37     | 0.3267 | 0.151  | 0.5221 | 275.6    | -1 533c          | 26 533           | Mm   |
| 44 622           | 16 480           | 31.56     | 13.34     | 107.65    | 0.2068 | 0.0874 | 0.7056 | 245.9    | 0 403            | 31 556           |      |
| -1 485c          | 17 485           | 19.48     | 9.88      | 110.21    | 0.1395 | 0.0708 | 0.7896 | 235.4    | 11 456           | 32 562           |      |
| -1 490c          | 18 490           | 19.53     | 11.73     | 112.03    | 0.1363 | 0.0819 | 0.7817 | 233.7    | 11 459           | 32 563           | min  |
| -1 495c          | 19 495           | 19.55     | 13.82     | 113.3     | 0.1333 | 0.0942 | 0.7724 | 231.7    | 12 461           | 32 564           |      |
| -1 500c          | 20 500           | 19.6      | 16.13     | 114.18    | 0.1307 | 0.1075 | 0.7616 | 229.6    | 12 463           | 33 565           |      |
| -1 510c          | 22 510           | 19.95     | 21.42     | 115.21    | 0.1274 | 0.1368 | 0.7357 | 224.8    | 13 466           | 33 567           |      |
| -1 520c          | 24 520           | 20.94     | 27.7      | 115.72    | 0.1274 | 0.1685 | 0.704  | 219.4    | 13 468           | 34 570           | Bm   |
| -1 530c          | 26 530           | 22.93     | 35.01     | 115.98    | 0.1318 | 0.2013 | 0.6668 | 213.4    | 14 471           | 34 574           |      |
| -1 540c          | 28 540           | 26.21     | 43.33     | 116.1     | 0.1412 | 0.2333 | 0.6253 | 206.8    | 14 473           | 35 578           |      |
| -1 544c          | 28 545           | 26.21     | 43.33     | 116.1     | 0.1412 | 0.2333 | 0.6253 | 206.8    | 14 473           | 35 578           |      |
| -1 549c          | 29 550           | 28.39     | 47.72     | 116.13    | 0.1477 | 0.2482 | 0.604  | 203.5    | 14 474           | 36 580           |      |
| -1 555c          | 31 555           | 33.93     | 56.67     | 116.14    | 0.1641 | 0.2741 | 0.5617 | 197.0    | 15 475           | 37 585           |      |
| 9 447            | 31 560           | 22.41     | 54.92     | 58.2      | 0.1653 | 0.4052 | 0.4294 | 149.2    | 17 487           | -1 487c          |      |
| 380              | 770              | 97.28     | 99.99     | 116.14    | 0.3103 | 0.319  | 0.3705 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, C00,  $Y_w=100$ ,  $Y_m=520\_770$ , Parameter:  $c_{ab}$

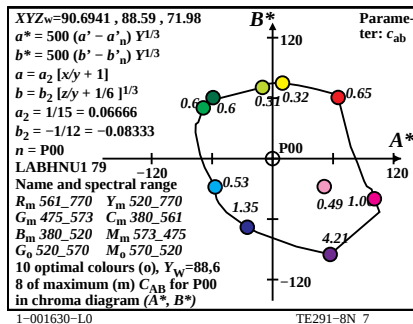
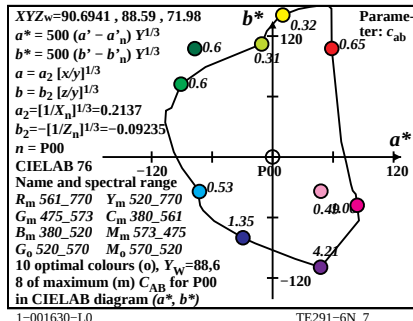
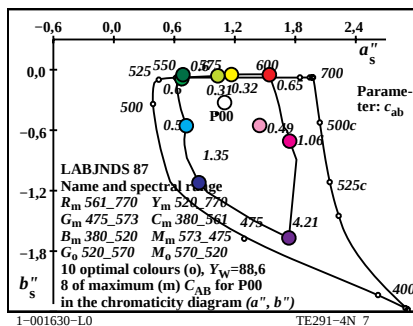
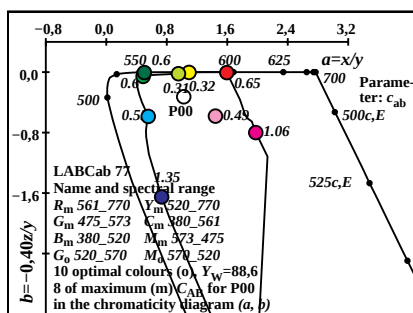
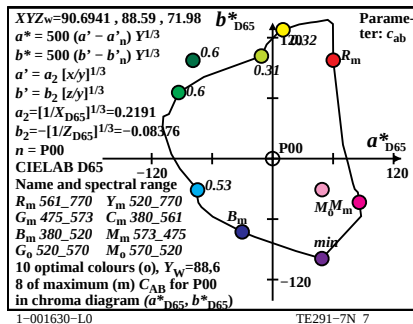
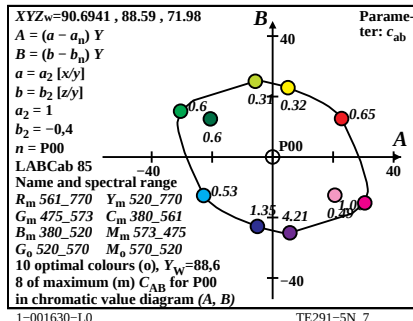
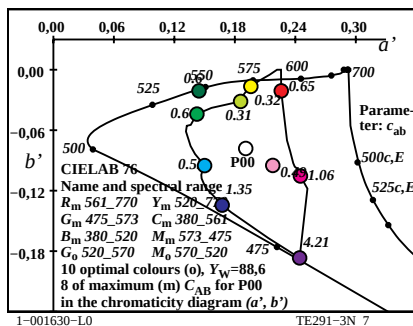
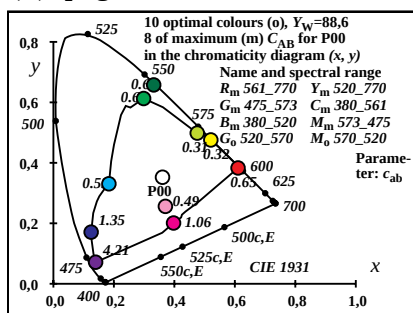


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for P00,  $Y_w=100$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code              |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|-------------------|
| 0                | 405              | 32        | 562       | 30.46     | 54.9   | 80.53  | 0.1836 | 0.3309   | 0.4854           | 186.9            | 15 479 38 591 Cm  |
| 7                | 435              | 32        | 563       | 26.02     | 55.22  | 54.97  | 0.191  | 0.4053   | 0.4035           | 162.7            | 17 485 -1 485c    |
| 9                | 450              | 32        | 564       | 24.33     | 55.85  | 41.19  | 0.2004 | 0.4601   | 0.3394           | 146.1            | 18 491 -1 491c    |
| 12               | 460              | 33        | 567       | 22.57     | 56.37  | 22.05  | 0.2235 | 0.558    | 0.2183           | 123.7            | 21 506 -1 506c    |
| 13               | 465              | 33        | 569       | 23.4      | 57.54  | 16.87  | 0.2392 | 0.5882   | 0.1724           | 117.2            | 22 514 -1 514c    |
| 13               | 470              | 34        | 572       | 26.47     | 60.57  | 16.87  | 0.2547 | 0.5828   | 0.1623           | 114.7            | 23 518 -1 518c    |
| 15               | 475              | 35        | 579       | 31.12     | 63.97  | 9.26   | 0.2982 | 0.6129   | 0.0888           | 103.5            | 26 534 -1 534c Gm |
| 16               | 480              | 38        | 593       | 45.51     | 73.33  | 6.76   | 0.3623 | 0.5837   | 0.0538           | 89.6             | 29 547 -1 547c    |
| 17               | 485              | -1        | 485c      | 88.85     | 93.1   | 4.91   | 0.4754 | 0.4982   | 0.0263           | 51.7             | 33 566 11 457     |
| 17               | 490              | -1        | 489c      | 88.85     | 93.1   | 4.91   | 0.4754 | 0.4982   | 0.0263           | 51.7             | 33 566 11 457 max |
| 19               | 495              | -1        | 495c      | 88.79     | 90.06  | 2.55   | 0.4894 | 0.4964   | 0.014            | 48.2             | 33 567 12 461     |
| 19               | 500              | -1        | 499c      | 88.79     | 90.06  | 2.55   | 0.4894 | 0.4964   | 0.014            | 48.2             | 33 567 12 461     |
| 22               | 510              | -1        | 510c      | 88.44     | 83.34  | 0.9    | 0.5121 | 0.4826   | 0.0052           | 40.6             | 34 570 13 467     |
| 23               | 520              | -1        | 519c      | 88.06     | 80.45  | 0.61   | 0.5206 | 0.4756   | 0.0036           | 37.6             | 34 572 13 469 Ym  |
| 26               | 530              | -1        | 530c      | 85.52     | 70.09  | 0.15   | 0.549  | 0.4499   | 0.0009           | 27.3             | 35 577 14 473     |
| 28               | 540              | -1        | 540c      | 82.37     | 62.1   | 0.03   | 0.57   | 0.4297   | 0.0002           | 20.2             | 36 580 15 475     |
| 28               | 545              | -1        | 544c      | 82.37     | 62.1   | 0.03   | 0.57   | 0.4297   | 0.0002           | 20.2             | 36 580 15 475     |
| 29               | 550              | -1        | 549c      | 80.3      | 57.92  | 0.01   | 0.5808 | 0.419    | 0.0              | 16.8             | 36 583 15 476     |
| 31               | 555              | -1        | 555c      | 75.0      | 49.38  | 0.0    | 0.603  | 0.3969   | 0.0              | 10.3             | 37 587 15 478     |
| 32               | 560              | -1        | 560c      | 71.75     | 45.08  | 0.0    | 0.6141 | 0.3858   | 0.0              | 7.4              | 38 590 15 479     |
| 32               | 562              | 0         | 405       | 71.9      | 45.09  | 0.71   | 0.6108 | 0.383    | 0.006            | 6.9              | 38 591 15 479 Rm  |
| 32               | 563              | 7         | 435       | 76.34     | 44.77  | 26.27  | 0.5179 | 0.3037   | 0.1782           | 342.7            | -1 485c 17 485    |
| 32               | 564              | 9         | 450       | 78.04     | 44.14  | 40.05  | 0.481  | 0.272    | 0.2468           | 326.1            | -1 491c 18 491    |
| 33               | 567              | 12        | 460       | 79.79     | 43.62  | 59.19  | 0.4369 | 0.2389   | 0.3241           | 303.8            | -1 506c 21 506    |
| 33               | 569              | 13        | 465       | 78.96     | 42.45  | 64.38  | 0.425  | 0.2285   | 0.3464           | 297.3            | -1 514c 22 514    |
| 34               | 572              | 13        | 470       | 75.9      | 39.42  | 64.38  | 0.4223 | 0.2194   | 0.3582           | 294.7            | -1 518c 23 518    |
| 35               | 579              | 15        | 475       | 71.24     | 36.02  | 71.98  | 0.3974 | 0.2009   | 0.4015           | 283.5            | -1 534c 26 534 Mm |
| 38               | 593              | 16        | 480       | 56.85     | 26.66  | 74.48  | 0.3598 | 0.1687   | 0.4714           | 269.6            | -1 547c 29 547    |
| -1               | 485c             | 17        | 485       | 13.51     | 6.89   | 76.33  | 0.1397 | 0.0712   | 0.789            | 231.8            | 11 457 33 566     |
| -1               | 489c             | 17        | 490       | 13.51     | 6.89   | 76.33  | 0.1397 | 0.0712   | 0.789            | 231.8            | 11 457 33 566 min |
| -1               | 495c             | 19        | 495       | 13.57     | 9.93   | 78.7   | 0.1328 | 0.0972   | 0.7699           | 228.2            | 12 461 33 567     |
| -1               | 499c             | 19        | 500       | 13.57     | 9.93   | 78.7   | 0.1328 | 0.0972   | 0.7699           | 228.2            | 12 461 33 567     |
| -1               | 510c             | 22        | 510       | 13.93     | 16.65  | 80.34  | 0.1255 | 0.1501   | 0.7242           | 220.7            | 13 467 34 570     |
| -1               | 519c             | 23        | 520       | 14.31     | 19.54  | 80.63  | 0.1249 | 0.1707   | 0.7042           | 217.6            | 13 469 34 572 Bm  |
| -1               | 530c             | 26        | 530       | 16.84     | 29.9   | 81.09  | 0.1317 | 0.2339   | 0.6343           | 207.3            | 14 473 35 577     |
| -1               | 540c             | 28        | 540       | 19.99     | 37.89  | 81.21  | 0.1437 | 0.2724   | 0.5838           | 200.2            | 15 475 36 580     |
| -1               | 544c             | 28        | 545       | 19.99     | 37.89  | 81.21  | 0.1437 | 0.2724   | 0.5838           | 200.2            | 15 475 36 580     |
| -1               | 549c             | 29        | 550       | 22.07     | 42.07  | 81.23  | 0.1518 | 0.2893   | 0.5587           | 196.8            | 15 476 36 583     |
| -1               | 555c             | 31        | 555       | 27.36     | 50.61  | 81.25  | 0.1718 | 0.3178   | 0.5102           | 190.4            | 15 478 37 587     |
| -1               | 560c             | 32        | 560       | 30.62     | 54.91  | 81.25  | 0.1835 | 0.3292   | 0.4871           | 187.4            | 15 479 38 590     |
| 380              | 770              | 102.37    | 99.99     | 81.25     | 0.3609 | 0.3525 | 0.2864 | 0.0      |                  |                  |                   |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz, h data, P00,  $Y_w=100$ , Parameter:  $c_{ab}$

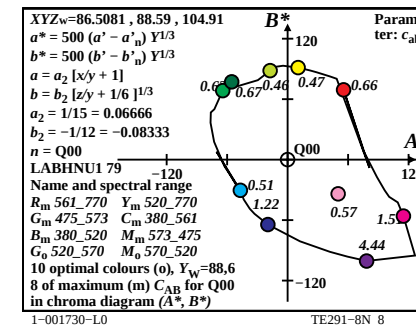
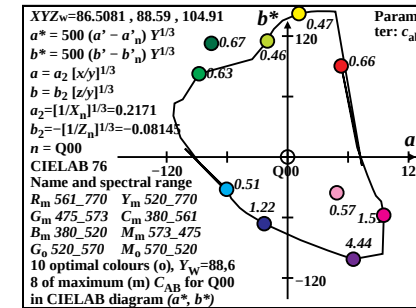
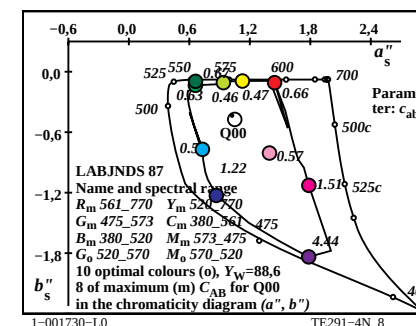
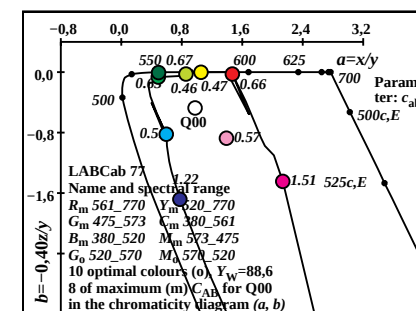
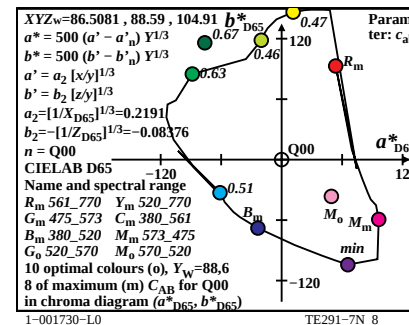
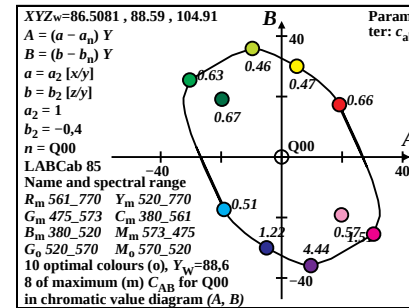
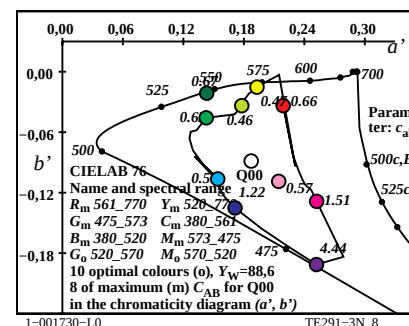
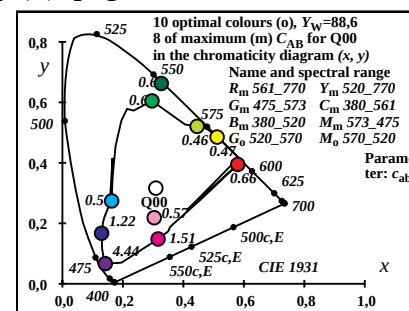


input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change

of maximum (m)  $C_{AB}$  for Q00,  $Y_{w,10}=100$ ,  $Y_m=520-770$ Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for Q00,  $Y_{w,10}=100$ ,  $Y_m=520-770$ 

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{100}$ | $Y_{100}$ | $Z_{100}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-----------|-----------|-----------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 31 556           | 33.44     | 56.3      | 115.58    | 0.1628 | 0.2742 | 0.5628 | 196.1    | 15 475           | 37 587           | Cm   |
| 7 435            | 31 558           | 26.56     | 56.83     | 76.55     | 0.166  | 0.3553 | 0.4786 | 164.7    | 16 482           | -1 482c          |      |
| 10 450           | 32 560           | 22.08     | 57.26     | 46.17     | 0.1759 | 0.4562 | 0.3678 | 133.5    | 18 493           | -1 493c          |      |
| 12 460           | 32 563           | 21.16     | 58.56     | 28.78     | 0.195  | 0.5396 | 0.2652 | 117.0    | 21 506           | -1 506c          |      |
| 13 465           | 33 566           | 22.3      | 60.33     | 21.67     | 0.2138 | 0.5783 | 0.2077 | 109.9    | 23 515           | -1 515c          |      |
| 13 470           | 34 572           | 26.68     | 64.84     | 21.67     | 0.2357 | 0.5727 | 0.1914 | 105.9    | 24 520           | -1 520c          |      |
| 15 475           | 36 583           | 34.45     | 70.42     | 11.51     | 0.296  | 0.605  | 0.0989 | 92.5     | 27 536           | -1 536c          | Gm   |
| 15 480           | 45 629           | 69.24     | 89.85     | 11.51     | 0.4058 | 0.5266 | 0.0674 | 65.2     | 31 556           | 2 413            |      |
| 17 485           | -1 485c          | 77.47     | 90.54     | 5.9       | 0.4454 | 0.5206 | 0.0339 | 56.2     | 32 561           | 11 455           |      |
| 17 490           | -1 489c          | 77.47     | 90.54     | 5.9       | 0.4454 | 0.5206 | 0.0339 | 56.2     | 32 561           | 11 455           | max  |
| 18 495           | -1 494c          | 77.42     | 88.8      | 4.19      | 0.4543 | 0.521  | 0.0246 | 54.6     | 32 562           | 11 458           |      |
| 19 500           | -1 499c          | 77.4      | 86.78     | 2.96      | 0.463  | 0.5191 | 0.0177 | 52.7     | 32 563           | 12 460           |      |
| 21 510           | -1 509c          | 77.23     | 81.81     | 1.45      | 0.4812 | 0.5097 | 0.009  | 48.2     | 33 566           | 12 464           |      |
| 24 520           | -1 520c          | 75.89     | 71.94     | 0.44      | 0.5118 | 0.4851 | 0.0029 | 39.7     | 34 570           | 13 468           | Ym   |
| 26 530           | -1 530c          | 73.77     | 64.11     | 0.16      | 0.5343 | 0.4644 | 0.0011 | 33.2     | 34 574           | 14 471           |      |
| 27 540           | -1 539c          | 72.26     | 59.95     | 0.08      | 0.5462 | 0.4531 | 0.0006 | 29.9     | 35 576           | 14 472           |      |
| 29 545           | -1 545c          | 68.32     | 51.41     | 0.01      | 0.5705 | 0.4293 | 0.0001 | 23.3     | 36 581           | 14 474           |      |
| 30 550           | -1 550c          | 65.85     | 47.12     | 0.0       | 0.5828 | 0.4171 | 0.0    | 20.1     | 36 583           | 15 475           |      |
| 30 555           | -1 554c          | 65.85     | 47.12     | 0.0       | 0.5828 | 0.4171 | 0.0    | 20.1     | 36 583           | 15 475           |      |
| 31 560           | 9 447            | 75.63     | 44.71     | 62.92     | 0.4126 | 0.2439 | 0.3433 | 325.1    | -1 488c          | 17 488           |      |
| 31 556           | 1 405            | 64.2      | 43.69     | 2.84      | 0.5797 | 0.3945 | 0.0256 | 16.0     | 37 587           | 15 475           | Rm   |
| 31 558           | 7 435            | 71.08     | 43.16     | 41.86     | 0.4553 | 0.2764 | 0.2681 | 344.7    | -1 482c          | 16 482           |      |
| 32 560           | 10 450           | 75.56     | 42.73     | 72.24     | 0.3965 | 0.2242 | 0.3791 | 313.6    | -1 493c          | 18 493           |      |
| 32 563           | 12 460           | 76.48     | 41.43     | 89.63     | 0.3685 | 0.1996 | 0.4318 | 297.0    | -1 506c          | 21 506           |      |
| 33 566           | 13 465           | 75.34     | 39.66     | 96.74     | 0.3557 | 0.1873 | 0.4568 | 289.9    | -1 515c          | 23 515           |      |
| 34 572           | 13 470           | 70.96     | 35.15     | 96.74     | 0.3497 | 0.1732 | 0.4769 | 285.9    | -1 520c          | 24 520           |      |
| 36 583           | 15 475           | 63.19     | 29.57     | 106.9     | 0.3164 | 0.1481 | 0.5354 | 272.5    | -1 536c          | 27 536           | Mm   |
| 45 629           | 15 480           | 28.4      | 10.14     | 106.9     | 0.1952 | 0.0697 | 0.7349 | 245.2    | 2 413            | 31 556           |      |
| -1 485c          | 17 485           | 20.17     | 9.45      | 112.51    | 0.1419 | 0.0664 | 0.7915 | 236.2    | 11 455           | 32 561           |      |
| -1 489c          | 17 490           | 20.17     | 9.45      | 112.51    | 0.1419 | 0.0664 | 0.7915 | 236.2    | 11 455           | 32 561           | min  |
| -1 494c          | 18 495           | 20.22     | 11.19     | 114.22    | 0.1388 | 0.0768 | 0.7842 | 234.6    | 11 458           | 32 562           |      |
| -1 499c          | 19 500           | 20.24     | 13.21     | 115.45    | 0.1359 | 0.0887 | 0.7752 | 232.7    | 12 460           | 32 563           |      |
| -1 509c          | 21 510           | 20.41     | 18.18     | 116.97    | 0.1312 | 0.1168 | 0.7518 | 228.3    | 12 464           | 33 566           |      |
| -1 520c          | 24 520           | 21.75     | 28.05     | 117.98    | 0.1296 | 0.1672 | 0.7031 | 219.7    | 13 468           | 34 570           | Bm   |
| -1 530c          | 26 530           | 23.87     | 35.88     | 118.26    | 0.1341 | 0.2015 | 0.6643 | 213.3    | 14 471           | 34 574           |      |
| -1 539c          | 27 540           | 25.38     | 40.04     | 118.33    | 0.1381 | 0.2179 | 0.6439 | 209.9    | 14 472           | 35 576           |      |
| -1 545c          | 29 545           | 29.32     | 48.58     | 118.41    | 0.1493 | 0.2474 | 0.6031 | 203.3    | 14 474           | 36 581           |      |
| -1 550c          | 30 550           | 31.79     | 52.87     | 118.42    | 0.1565 | 0.2603 | 0.5831 | 200.1    | 15 475           | 36 583           |      |
| -1 554c          | 30 555           | 31.79     | 52.87     | 118.42    | 0.1565 | 0.2603 | 0.5831 | 200.1    | 15 475           | 36 583           |      |
| 9 447            | 31 560           | 22.01     | 55.28     | 55.49     | 0.1657 | 0.4162 | 0.4179 | 145.0    | 17 488           | -1 488c          |      |
| 380              | 770              | 97.65     | 100.0     | 118.42    | 0.3089 | 0.3163 | 0.3746 | 0.0      |                  |                  |      |

TUB-test chart TE29; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
XYZ, xyz,  $h$  data, Q00,  $Y_{w,10}=88,6$ , Parameter:  $c_{ab}$



TUB registration: 20130201-TE29/TE29L0NP.PDF /.PS  
application for measurement of display output

TUB material: code=rha4ta

input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change