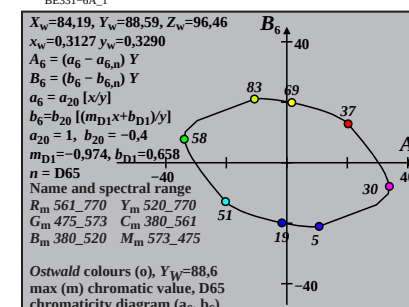
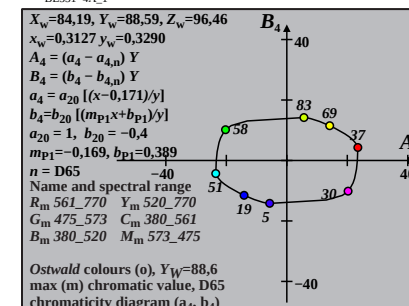
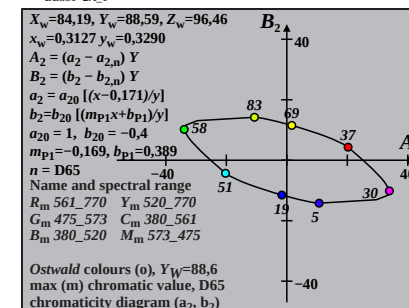
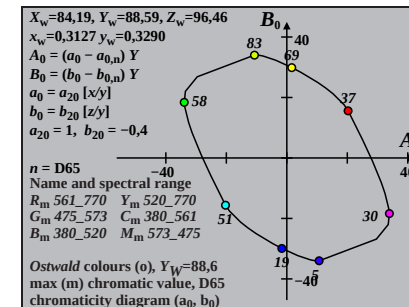
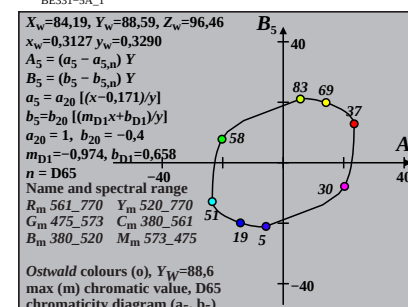
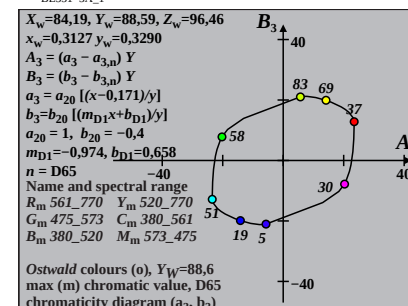
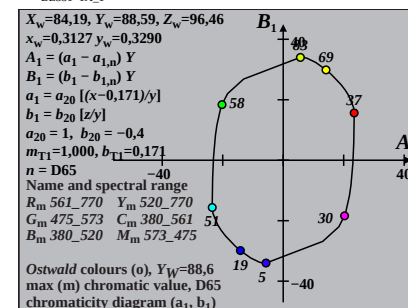
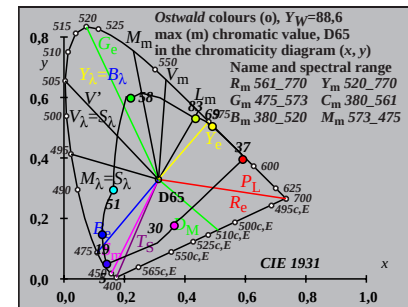


Ostwald optimal colours (o) of maximum (m) C_{AB} for D65, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
0 405	32 561	51.56	-20.15	-15.85	25.64	0.5596	-0.743	218.1	16 483	37 589	Cm
6 435	32 562	52.08	-23.73	-8.75	25.29	0.4948	-0.6036	200.2	17 486	42 610	
10 450	32 563	52.64	-29.71	4.36	30.03	0.3859	-0.3525	171.6	19 496	-1 496c	
12 460	33 565	53.43	-32.29	11.21	34.18	0.3461	-0.2256	160.8	21 505	-1 505c	
12 465	33 567	54.62	-32.47	11.73	34.52	0.356	-0.2207	160.1	21 506	-1 506c	
14 470	33 569	55.56	-33.79	17.12	37.88	0.3422	-0.1274	153.1	24 520	-1 520c	
15 475	34 573	57.84	-33.91	19.9	39.33	0.364	-0.0913	149.5	25 528	-1 528c	Gm
16 480	36 580	61.97	-33.2	23.07	40.43	0.4146	-0.0632	145.2	27 537	-1 537c	
17 485	39 595	69.76	-29.0	27.46	39.94	0.5347	-0.0418	136.5	29 548	-1 548c	
18 490	-1 490c	83.1	-10.68	34.02	35.66	0.8218	-0.0261	107.4	33 565	11 459	max
19 495	-1 495c	81.77	-9.46	34.01	35.3	0.8346	-0.0195	105.5	33 566	12 462	
20 500	-1 500c	80.1	-7.9	33.73	34.64	0.8518	-0.0144	103.1	33 567	12 464	
22 510	-1 510c	75.54	-3.68	32.32	32.53	0.9016	-0.0076	96.5	33 569	13 469	Ym
23 520	-1 519c	72.63	-1.11	31.22	31.24	0.935	-0.0056	92.0	34 570	14 471	
25 530	-1 529c	65.59	4.57	28.36	28.73	1.0201	-0.0031	80.8	34 573	15 475	
27 540	-1 539c	57.49	10.25	24.94	26.97	1.1288	-0.0016	67.6	35 577	15 478	
28 545	-1 544c	53.27	12.85	23.13	26.46	1.1917	-0.0012	60.9	35 579	15 479	
29 550	-1 549c	48.96	15.22	21.27	26.16	1.2613	-0.0009	54.4	36 582	16 480	
30 555	-1 554c	44.65	17.27	19.41	25.98	1.3372	-0.0007	48.3	36 584	16 481	
32 560	-1 560c	36.33	20.2	15.8	25.64	1.5064	-0.0005	38.0	37 589	16 483	
32 561	0 405	48.43	20.15	15.85	25.64	1.3665	-0.1081	38.1	37 589	16 483	Rm
32 562	6 435	47.91	23.73	8.75	25.29	1.4458	-0.2528	20.2	42 610	17 486	
32 563	10 450	47.35	29.71	-4.36	30.03	1.5779	-0.5277	351.6	-1 496c	19 496	
33 565	12 460	46.56	32.29	-11.21	34.18	1.6439	-0.6765	340.8	-1 505c	21 505	
33 567	12 465	45.37	32.47	-11.73	34.52	1.666	-0.6942	340.1	-1 506c	21 506	
33 569	14 470	44.43	33.79	-17.12	37.88	1.711	-0.8209	333.1	-1 520c	24 520	
34 573	15 475	42.15	33.91	-19.9	39.33	1.755	-0.9078	329.5	-1 528c	25 528	Mm
36 580	16 480	38.02	33.2	-23.07	40.43	1.8237	-1.0424	325.2	-1 537c	27 537	
39 595	17 485	30.23	29.0	-27.46	39.94	1.9097	-1.3442	316.5	-1 548c	29 548	
-1 490c	18 490	16.89	10.68	-34.02	35.66	1.5831	-2.4491	287.4	11 459	33 565	min
-1 495c	19 495	18.22	9.46	-34.01	35.3	1.4699	-2.3016	285.5	12 462	33 566	
-1 500c	20 500	19.89	7.9	-33.73	34.64	1.3475	-2.1309	283.1	12 464	33 567	
-1 510c	22 510	24.45	3.68	-32.32	32.53	1.101	-1.7576	276.5	13 469	33 569	
-1 519c	23 520	27.36	1.11	-31.22	31.24	0.9912	-1.5765	272.0	14 471	34 570	Bm
-1 529c	25 530	34.4	-4.57	-28.36	28.73	0.8175	-1.2601	260.8	15 475	34 573	
-1 539c	27 540	42.5	-10.25	-24.94	26.97	0.7091	-1.0225	247.6	15 478	35 577	
-1 544c	28 545	46.72	-12.85	-23.13	26.46	0.6753	-0.9306	240.9	15 479	35 579	
-1 549c	29 550	51.03	-15.22	-21.27	26.16	0.6522	-0.8524	234.4	16 480	36 582	
-1 554c	30 555	55.34	-17.27	-19.41	25.98	0.6383	-0.7863	228.3	16 481	36 584	
-1 560c	32 560	63.66	-20.2	-15.8	25.64	0.6331	-0.6837	218.0	16 483	37 589	
380	770	88.59	0.0	0.0	0.01	0.9504	-0.4355	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant D65; diagram for illuminant D65, $Y_w=88.6$



TUB registration: 20170801-BE33/BE33L0NP.PDF / PS
application for measurement of offset print output

TUB material: code=rha4ta

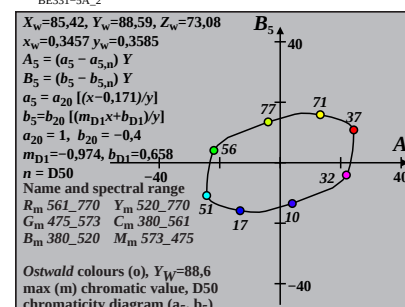
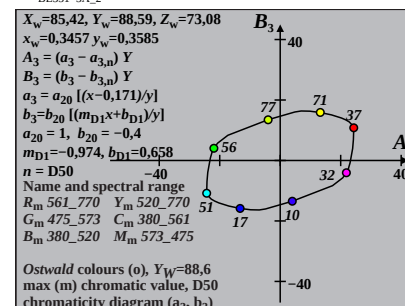
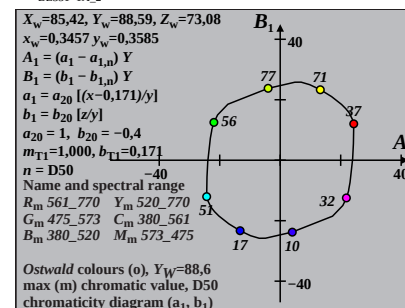
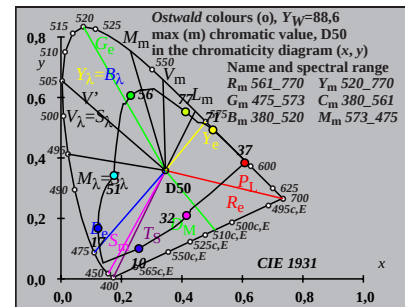
input: w/rgb/cmyk -> rgb

Ostwald optimal colours (o) of maximum (m) C_{AB} for D50, $Y_w=88.6$, $Y_m=520_770$

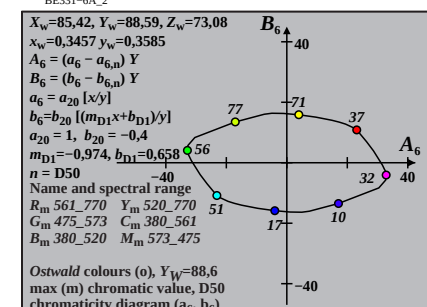
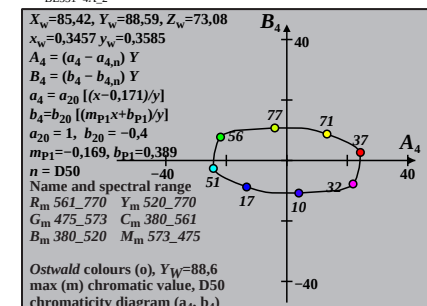
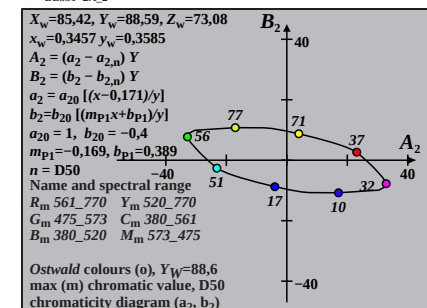
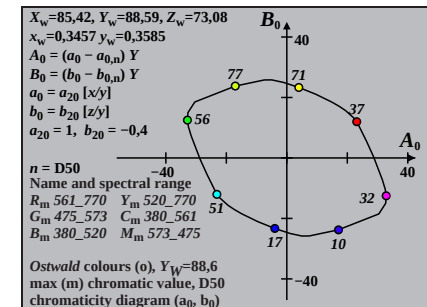
i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	51.21	-23.13	-12.01	26.07	0.5124	-0.5646	207.4	17 486	38 592	Cm
7 435	33 565	51.54	-26.37	-5.49	26.93	0.4526	-0.4365	191.7	18 490	46 634	
10 450	33 566	51.98	-29.72	2.1	29.79	0.3925	-0.2895	175.9	19 497	-1 497c	
12 460	33 567	52.53	-31.63	7.31	32.46	0.3621	-0.1907	166.9	21 506	-1 506c	
13 465	33 568	53.11	-32.33	9.67	33.74	0.3555	-0.1478	163.3	22 511	-1 511c	
14 470	34 570	54.07	-32.77	11.8	34.83	0.3581	-0.1117	160.1	23 519	-1 519c	
15 475	34 573	55.72	-32.85	13.81	35.64	0.3745	-0.0821	157.2	25 527	-1 527c	Gm
15 480	35 578	59.28	-32.7	14.98	35.97	0.4125	-0.0772	155.3	26 531	-1 531c	
17 485	37 587	64.0	-30.41	18.52	35.6	0.489	-0.0405	148.6	28 544	-1 544c	
18 490	44 620	77.97	-17.06	23.76	29.25	0.7454	-0.0251	125.6	32 561	-1 561c	max
19 495	-1 495c	82.96	-6.37	25.91	26.68	0.8874	-0.0176	103.8	33 568	12 463	
20 500	-1 500c	81.49	-4.96	25.81	26.29	0.9033	-0.0131	100.8	33 569	13 466	
22 510	-1 510c	77.37	-1.09	24.98	25.0	0.95	-0.0071	92.5	34 571	14 471	
23 520	-1 519c	74.67	1.31	24.24	24.28	0.9818	-0.0053	86.8	34 572	14 473	Ym
25 530	-1 529c	68.03	6.77	22.25	23.26	1.0637	-0.0029	73.0	35 575	15 477	
27 540	-1 539c	60.24	12.35	19.78	23.32	1.1692	-0.0015	58.0	35 579	16 480	
28 545	-1 544c	56.11	14.94	18.45	23.74	1.2304	-0.0011	50.9	36 581	16 481	
29 550	-1 549c	51.87	17.32	17.07	24.32	1.2983	-0.0009	44.5	36 583	16 483	
30 555	-1 554c	47.59	19.42	15.67	24.96	1.3724	-0.0007	38.8	37 585	16 484	
32 560	-1 560c	39.22	22.48	12.92	25.93	1.5375	-0.0005	29.8	38 590	17 486	
32 564	1 405	48.78	23.13	12.01	26.07	1.4385	-0.0836	27.4	38 592	17 486	Rm
33 565	7 435	48.45	26.37	5.49	26.93	1.5084	-0.2166	11.7	46 634	18 490	
33 566	10 450	48.01	29.72	-2.1	29.79	1.5832	-0.3738	355.9	-1 497c	19 497	
33 567	12 460	47.46	31.63	-7.31	32.46	1.6306	-0.4841	346.9	-1 506c	21 506	
33 568	13 465	46.88	32.33	-9.67	33.74	1.6538	-0.5362	343.3	-1 511c	22 511	
34 570	14 470	45.92	32.77	-11.8	34.83	1.6779	-0.5869	340.1	-1 519c	23 519	
34 573	15 475	44.27	32.85	-13.81	35.64	1.7062	-0.6419	337.2	-1 527c	25 527	Mm
35 578	15 480	40.71	32.7	-14.98	35.97	1.7673	-0.6979	335.3	-1 531c	26 531	
37 587	17 485	35.99	30.41	-18.52	35.6	1.809	-0.8444	328.6	-1 544c	28 544	
44 620	18 490	22.02	17.06	-23.76	29.25	1.739	-1.4092	305.6	-1 561c	32 561	min
-1 495c	19 495	17.03	6.37	-25.91	26.68	1.3382	-1.8515	283.8	12 463	33 568	
-1 500c	20 500	18.5	4.96	-25.81	26.29	1.2322	-1.7248	280.8	13 466	33 569	
-1 510c	22 510	22.62	1.09	-24.98	25.0	1.0125	-1.434	272.5	14 471	34 571	
-1 519c	23 520	25.32	-1.31	-24.24	24.28	0.9122	-1.2875	266.8	14 473	34 572	Bm
-1 529c	25 530	31.96	-6.77	-22.25	23.26	0.7523	-1.0261	253.0	15 477	35 575	
-1 539c	27 540	39.75	-12.35	-19.78	23.32	0.6535	-0.8276	238.0	16 480	35 579	
-1 544c	28 545	43.88	-14.94	-18.45	23.74	0.6237	-0.7504	230.9	16 481	36 581	
-1 549c	29 550	48.12	-17.32	-17.07	24.32	0.6041	-0.6846	224.5	16 483	36 583	
-1 554c	30 555	52.4	-19.42	-15.67	24.96	0.5934	-0.6289	218.8	16 484	37 585	
-1 560c	32 560	60.77	-22.48	-12.92	25.93	0.5942	-0.5425	209.8	17 486	38 590	
380	770	88.59	0.0	0.0	0.01	0.9642	-0.3299	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant D50; diagram for illuminant D50, $Y_w=88,6$



BE331-7A_2



BE331-7A_2

input: w/rgb/cmyk -> rgb

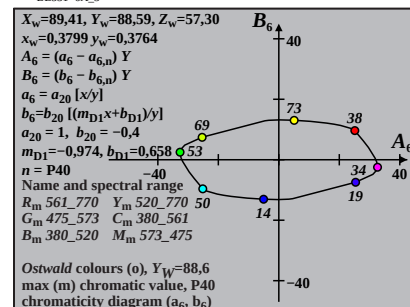
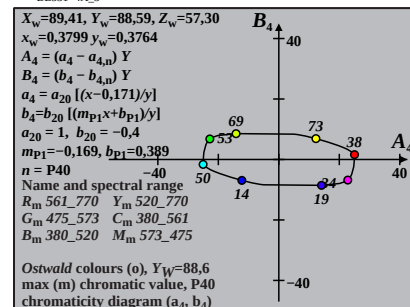
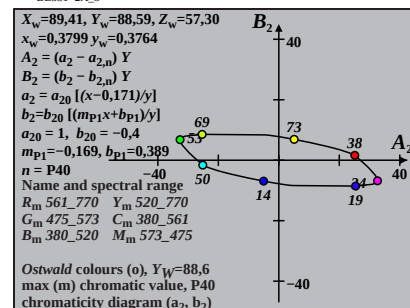
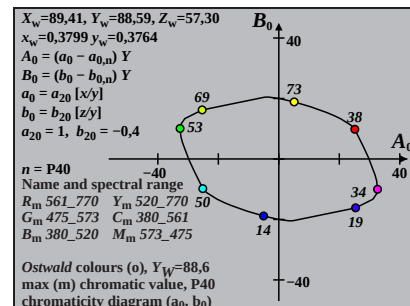
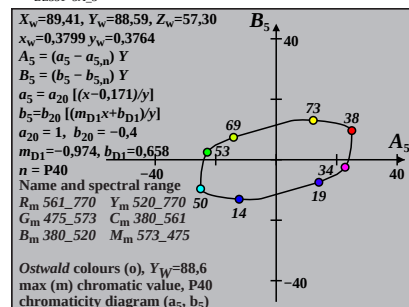
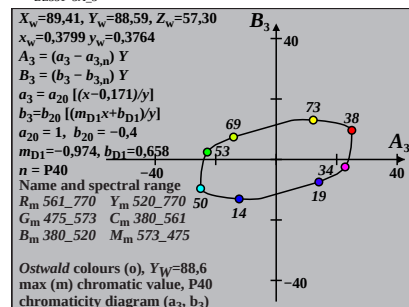
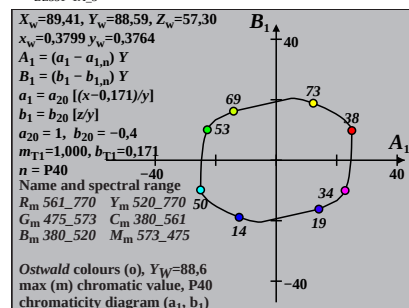
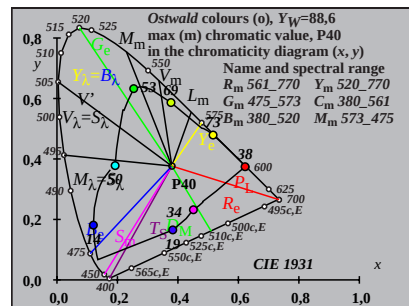
Ostwald optimal colours (o) of maximum (m) C_{AB} for P40, $Y_w=88,6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
0 405	33 568	50.12	-25.11	-9.79	26.95	0.5083	-0.4542	201.3	17 488	38 594	Cm
7 435	33 568	50.37	-27.92	-4.14	28.22	0.455	-0.3411	188.4	18 493	54 674	
10 450	33 569	50.74	-30.4	1.4	30.43	0.4101	-0.2309	177.3	19 499	-1 499c	
12 460	34 570	51.2	-31.78	5.21	32.21	0.3884	-0.1569	170.6	21 507	-1 507c	
13 465	34 571	51.65	-32.25	6.97	33.0	0.3848	-0.1237	167.7	22 512	-1 512c	
14 470	34 572	52.42	-32.54	8.56	33.65	0.3884	-0.0953	165.2	23 519	-1 519c	
14 475	34 574	54.15	-32.7	9.01	33.92	0.4054	-0.0923	164.5	24 522	-1 522c Gm	
15 480	35 578	56.54	-32.56	10.77	34.3	0.4332	-0.0682	161.6	26 531	-1 531c	
17 485	37 585	60.26	-31.09	13.33	33.83	0.4932	-0.0374	156.7	28 543	-1 543c	
17 490	40 600	70.01	-26.08	15.85	30.52	0.6366	-0.0323	148.7	30 554	-1 554c max	
19 495	-1 495c	84.05	-4.59	20.45	20.95	0.9546	-0.0154	102.6	34 571	12 464	
20 500	-1 500c	82.78	-3.32	20.45	20.72	0.9691	-0.0116	99.2	34 571	13 467	
21 510	-1 509c	81.16	-1.71	20.3	20.37	0.9882	-0.0086	94.8	34 572	13 469	
24 520	-1 520c	73.89	5.05	18.85	19.52	1.0777	-0.0035	74.9	35 575	15 476	Ym
26 530	-1 530c	67.28	10.44	17.27	20.19	1.1646	-0.0019	58.8	35 578	16 480	
27 540	-1 539c	63.58	13.15	16.36	20.99	1.2161	-0.0014	51.1	36 580	16 481	
29 545	-1 545c	55.69	18.2	14.36	23.19	1.3362	-0.0008	38.2	36 584	16 484	
29 550	-1 549c	55.69	18.2	14.36	23.19	1.3362	-0.0008	38.2	36 584	16 484	
31 555	-1 555c	47.4	22.3	12.23	25.44	1.4798	-0.0005	28.7	37 588	17 486	
32 560	-1 560c	43.22	23.82	11.16	26.31	1.5605	-0.0005	25.1	38 591	17 487	
33 568	0 405	49.87	25.11	9.8	26.95	1.5129	-0.0622	21.3	38 594	17 488	Rm
33 568	7 435	49.62	27.92	4.14	28.22	1.5719	-0.1751	8.4	54 674	18 493	
33 569	10 450	49.25	30.4	-1.4	30.43	1.6265	-0.2873	357.3	-1 499c	19 499	
34 570	12 460	48.79	31.78	-5.21	32.21	1.6606	-0.3656	350.6	-1 507c	21 507	
34 571	13 465	48.34	32.25	-6.97	33.0	1.6765	-0.403	347.7	-1 512c	22 512	
34 572	14 470	47.57	32.54	-8.56	33.65	1.6934	-0.4388	345.2	-1 519c	23 519	
34 574	14 475	45.84	32.7	-9.01	33.92	1.7225	-0.4553	344.5	-1 522c	24 522	Mm
35 578	15 480	43.45	32.56	-10.77	34.3	1.7587	-0.5066	341.6	-1 531c	26 531	
37 585	17 485	39.73	31.09	-13.33	33.83	1.7918	-0.5943	336.7	-1 543c	28 543	
40 600	17 490	29.98	26.08	-15.85	30.52	1.8794	-0.7875	328.7	-1 554c	30 554	min
-1 495c	19 495	15.94	4.59	-20.44	20.95	1.2972	-1.5411	282.6	12 464	34 571	
-1 500c	20 500	17.21	3.32	-20.45	20.72	1.2023	-1.447	279.2	13 467	34 571	
-1 509c	21 510	18.83	1.71	-20.3	20.37	1.1002	-1.3368	274.8	13 469	34 572	
-1 520c	24 520	26.1	-5.05	-18.85	19.52	0.8155	-0.9812	254.9	15 476	35 575	Bm
-1 530c	26 530	32.71	-10.44	-17.27	20.19	0.6899	-0.7867	238.8	16 480	35 578	
-1 539c	27 540	36.41	-13.15	-16.36	20.99	0.648	-0.7081	231.1	16 481	36 580	
-1 545c	29 545	44.3	-18.2	-14.36	23.19	0.5983	-0.5828	218.2	16 484	36 584	
-1 549c	29 550	44.3	-18.2	-14.36	23.19	0.5983	-0.5828	218.2	16 484	36 584	
-1 555c	31 555	52.59	-22.3	-12.23	25.44	0.5852	-0.4914	208.7	17 486	37 588	
-1 560c	32 560	56.77	-23.82	-11.16	26.31	0.5896	-0.4553	205.1	17 487	38 591	
380	770	88.59	0.0	0.0	0.01	1.0093	-0.2587	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_w=88,6$

input: w/rgb/cmyk -> rgb

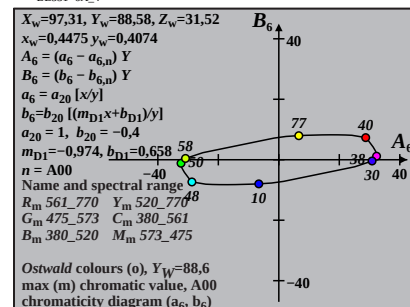
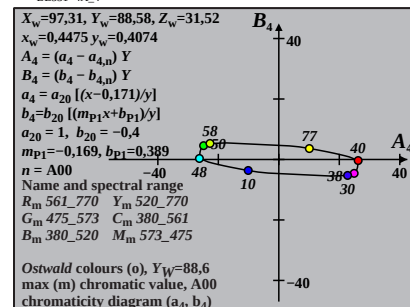
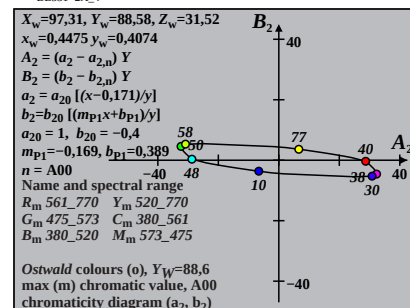
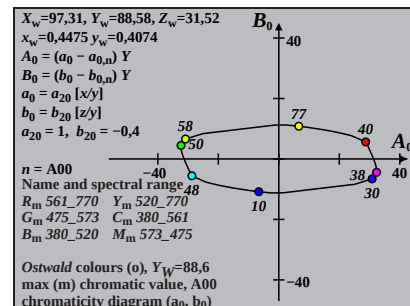
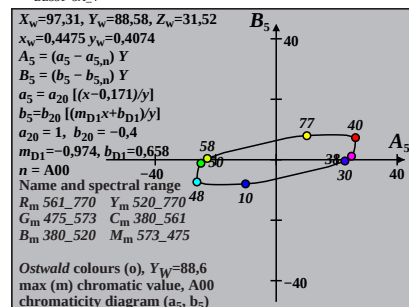
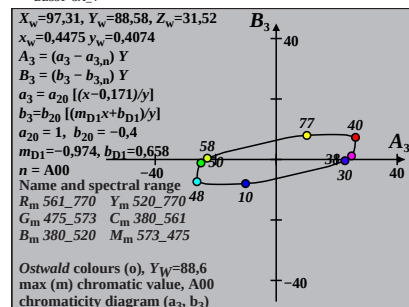
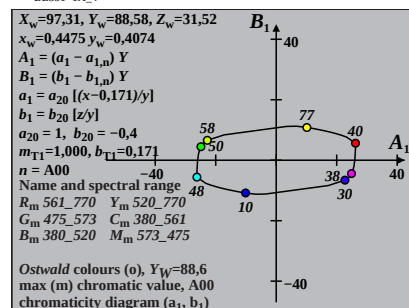
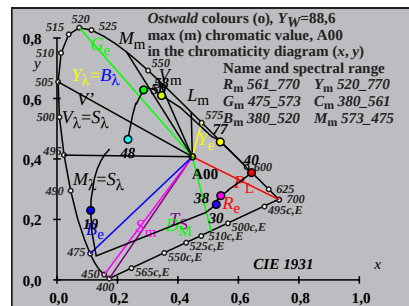


Ostwald optimal colours (o) of maximum (m) C_{AB} for A00, $Y_w=88.6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	34 574	48.43	-28.75	-5.6	29.29	0.5048	-0.2581	191.0	18 494	39 599	Cm
6 435	34 574	48.59	-29.61	-3.91	29.87	0.4891	-0.2227	187.5	19 496	42 611	
9 450	34 574	48.83	-30.82	-1.31	30.85	0.4673	-0.1692	182.4	20 501	-1 501c	
12 460	35 575	49.01	-31.95	1.74	32.0	0.4465	-0.1066	176.8	21 508	-1 508c	
13 465	35 575	49.25	-32.19	2.74	32.31	0.4448	-0.0866	175.1	22 512	-1 512c	
13 470	35 576	49.84	-32.22	2.82	32.34	0.452	-0.0856	174.9	22 513	-1 513c	
14 475	35 577	50.59	-32.36	3.77	32.58	0.4587	-0.0677	173.3	23 519	-1 519c Gm	
16 480	35 579	51.55	-32.2	5.2	32.62	0.4738	-0.0414	170.8	26 532	-1 532c	
17 485	36 582	53.64	-31.67	5.96	32.23	0.5079	-0.0312	169.3	28 540	-1 540c	
18 490	37 588	57.57	-30.3	6.88	31.08	0.572	-0.0226	167.1	29 548	-1 548c max	
19 495	40 601	65.98	-25.09	8.37	26.46	0.718	-0.0153	161.5	31 559	-1 559c	
20 500	-1 500c	84.75	-0.56	11.29	11.3	1.0918	-0.0091	92.8	35 576	13 469	
21 510	-1 509c	83.55	0.75	11.31	11.34	1.1074	-0.0069	86.2	35 576	14 472	Ym
24 520	-1 520c	77.79	6.62	10.83	12.7	1.1836	-0.003	58.5	35 579	16 480	
26 530	-1 530c	72.2	11.66	10.15	15.46	1.26	-0.0017	41.0	36 582	16 484	
28 540	-1 540c	65.49	16.97	9.25	19.33	1.3576	-0.001	28.6	37 585	17 487	
28 545	-1 544c	65.49	16.97	9.25	19.33	1.3576	-0.001	28.6	37 585	17 487	
29 550	-1 549c	61.79	19.54	8.74	21.41	1.4148	-0.0007	24.1	37 586	17 489	
31 555	-1 555c	53.89	24.15	7.64	25.33	1.5466	-0.0005	17.5	38 590	18 491	
32 560	-1 560c	49.77	26.01	7.05	26.95	1.6212	-0.0004	15.1	38 593	18 492	
34 574	1 405	51.56	28.75	5.6	29.29	1.6561	-0.0335	11.0	39 599	18 494	Rm
34 574	6 435	51.4	29.61	3.91	29.87	1.6745	-0.0662	7.5	42 611	19 496	
34 574	9 450	51.16	30.82	1.31	30.85	1.7009	-0.1166	2.4	-1 501c	20 501	
35 575	12 460	50.98	31.95	-1.74	32.0	1.7252	-0.1766	356.8	-1 508c	21 508	
35 575	13 465	50.74	32.19	-2.74	32.31	1.733	-0.1963	355.1	-1 512c	22 512	
35 576	13 470	50.15	32.22	-2.82	32.34	1.7409	-0.1986	354.9	-1 513c	22 513	
35 577	14 475	49.4	32.36	-3.77	32.58	1.7536	-0.2187	353.3	-1 519c	23 519	Mm
35 579	16 480	48.44	32.2	-5.2	32.62	1.7633	-0.2497	350.8	-1 532c	26 532	
36 582	17 485	46.35	31.67	-5.96	32.23	1.7819	-0.2709	349.3	-1 540c	28 540	
37 588	18 490	42.42	30.3	-6.88	31.08	1.8128	-0.3046	347.1	-1 548c	29 548	min
40 601	19 495	34.01	25.09	-8.37	26.46	1.8363	-0.3886	341.5	-1 559c	31 559	
-1 500c	20 500	15.24	0.56	-11.29	11.3	1.1352	-0.8832	272.8	13 469	35 576	
-1 509c	21 510	16.44	-0.75	-11.31	11.34	1.0528	-0.8302	266.2	14 472	35 576	
-1 520c	24 520	22.2	-6.62	-10.83	12.7	0.8002	-0.6303	238.5	16 480	35 579	Bm
-1 530c	26 530	27.79	-11.66	-10.15	15.46	0.6787	-0.5076	221.0	16 484	36 582	
-1 540c	28 540	34.5	-16.97	-9.25	19.33	0.6065	-0.4105	208.6	17 487	37 585	
-1 544c	28 545	34.5	-16.97	-9.25	19.33	0.6065	-0.4105	208.6	17 487	37 585	
-1 549c	29 550	38.2	-19.54	-8.74	21.41	0.5867	-0.3712	204.1	17 489	37 586	
-1 555c	31 555	46.1	-24.15	-7.64	25.33	0.5745	-0.308	197.5	18 491	38 590	
-1 560c	32 560	50.22	-26.01	-7.05	26.95	0.5804	-0.2828	195.1	18 492	38 593	
380	770	88.58	0.0	0.0	0.01	1.0984	-0.1423	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant A00; diagram for illuminant A00, $Y_w=88.6$



input: w/rgb/cmyk -> rgb

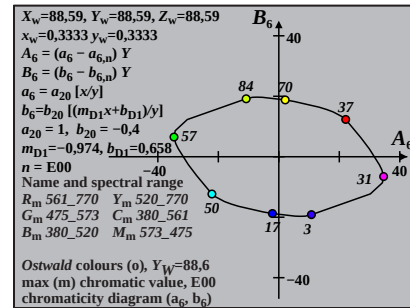
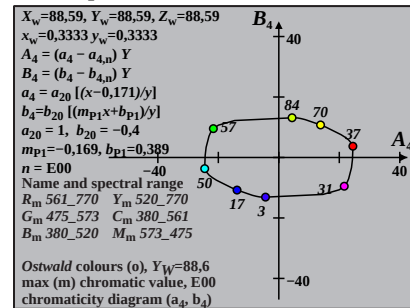
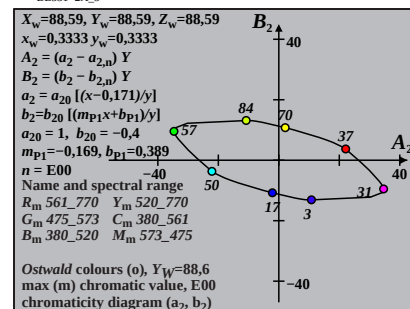
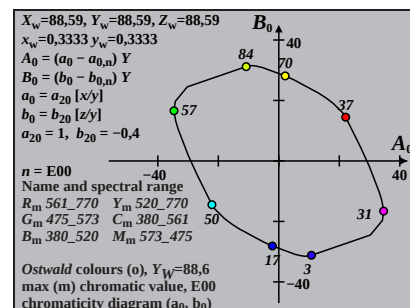
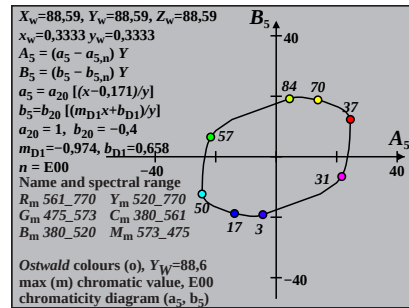
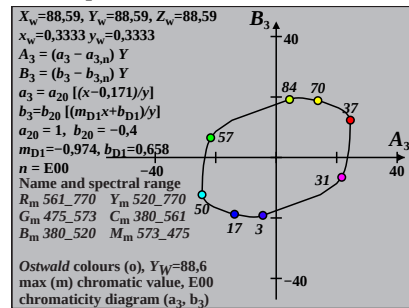
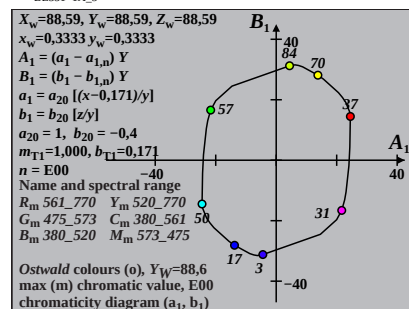
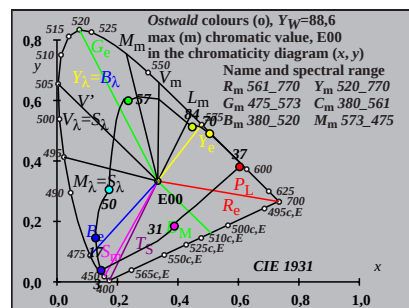
Ostwald optimal colours (o) of maximum (m) C_{AB} for E00, $Y_w=88,6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	50.87	-22.11	-14.47	26.43	0.5653	-0.6846	213.2	16 484	38 592	Cm
6 435	33 565	51.3	-25.82	-7.08	26.77	0.4967	-0.538	195.3	17 488	45 627	
10 450	33 566	51.78	-31.12	4.68	31.48	0.3988	-0.3094	171.4	19 498	-1 498c	
12 460	33 568	52.51	-33.26	10.46	34.86	0.3666	-0.2007	162.5	21 507	-1 507c	
13 465	33 569	53.28	-34.06	13.1	36.49	0.3606	-0.1541	158.9	22 514	-1 514c	
14 470	34 571	54.5	-34.5	15.52	37.83	0.367	-0.1152	155.7	24 522	-1 522c	
14 475	35 575	57.16	-34.67	16.58	38.43	0.3934	-0.1099	154.4	25 525	-1 525c	Gm
16 480	36 581	60.43	-33.93	20.61	39.7	0.4385	-0.0589	148.7	27 538	-1 538c	
17 485	39 595	67.95	-30.26	24.5	38.94	0.5546	-0.0393	140.9	29 549	-1 549c	
18 490	-1 490c	83.75	-9.91	31.5	33.02	0.8815	-0.0238	107.4	33 568	11 459	max
19 495	-1 495c	82.54	-8.75	31.54	32.73	0.8939	-0.0179	105.5	33 568	12 461	
19 500	-1 499c	82.54	-8.75	31.54	32.73	0.8939	-0.0179	105.5	33 568	12 461	
22 510	-1 510c	76.84	-3.16	30.19	30.35	0.9587	-0.0071	95.9	34 571	13 469	
24 520	-1 520c	70.99	2.12	28.12	28.2	1.0299	-0.0038	85.6	34 574	14 473	Ym
26 530	-1 530c	63.88	7.86	25.41	26.6	1.123	-0.0021	72.8	35 577	15 477	
28 540	-1 540c	56.0	13.32	22.33	26.0	1.2379	-0.0011	59.1	36 581	15 479	
29 545	-1 545c	51.9	15.77	20.71	26.03	1.3039	-0.0009	52.7	36 583	16 480	
29 550	-1 549c	51.9	15.77	20.71	26.03	1.3039	-0.0009	52.7	36 583	16 480	
30 555	-1 554c	47.77	17.95	19.07	26.19	1.3757	-0.0007	46.7	37 585	16 482	
32 560	-1 560c	39.54	21.24	15.79	26.47	1.5372	-0.0005	36.6	38 590	16 483	
32 564	1 405	49.12	22.11	14.47	26.42	1.45	-0.1052	33.2	38 592	16 484	Rm
33 565	6 435	48.69	25.82	7.08	26.77	1.5303	-0.2545	15.3	45 627	17 488	
33 566	10 450	48.21	31.12	-4.68	31.48	1.6455	-0.4972	351.4	-1 498c	19 498	
33 568	12 460	47.48	33.26	-10.46	34.86	1.7005	-0.6203	342.5	-1 507c	21 507	
33 569	13 465	46.71	34.06	-13.1	36.49	1.7291	-0.6804	338.9	-1 514c	22 514	
34 571	14 470	45.49	34.5	-15.52	37.83	1.7583	-0.7411	335.7	-1 522c	24 522	
35 575	14 475	42.83	34.67	-16.58	38.43	1.8096	-0.7872	334.4	-1 525c	25 525	Mm
36 581	16 480	39.56	33.93	-20.61	39.7	1.8575	-0.9209	328.7	-1 538c	27 538	
39 595	17 485	32.04	30.26	-24.5	38.94	1.9444	-1.1648	320.9	-1 549c	29 549	
-1 490c	18 490	16.24	9.91	-31.5	33.02	1.6105	-2.3392	287.4	11 459	33 568	min
-1 495c	19 495	17.45	8.75	-31.54	32.73	1.5016	-2.2074	285.5	12 461	33 568	
-1 499c	19 500	17.45	8.75	-31.54	32.73	1.5016	-2.2074	285.5	12 461	33 568	
-1 510c	22 510	23.15	3.16	-30.19	30.35	1.1369	-1.7039	275.9	13 469	34 571	
-1 520c	24 520	29.0	-2.12	-28.12	28.2	0.9266	-1.3696	265.6	14 473	34 574	Bm
-1 530c	26 530	36.11	-7.86	-25.41	26.6	0.7823	-1.1038	252.8	15 477	35 577	
-1 540c	28 540	43.99	-13.32	-22.33	26.0	0.6971	-0.9076	239.1	15 479	36 581	
-1 545c	29 545	48.09	-15.77	-20.71	26.03	0.6719	-0.8307	232.7	16 480	36 583	
-1 549c	29 550	48.09	-15.77	-20.71	26.03	0.6719	-0.8307	232.7	16 480	36 583	
-1 554c	30 555	52.22	-17.95	-19.07	26.19	0.6562	-0.7652	226.7	16 482	37 585	
-1 560c	32 560	60.45	-21.24	-15.79	26.47	0.6485	-0.6613	216.6	16 483	38 590	
380	770	88.59	0.0	0.0	0.01	1.0	-0.4	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant E00; diagram for illuminant E00, $Y_w=88,6$

input: w/rgb/cmyk -> rgb

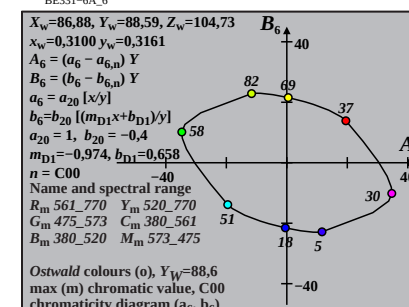
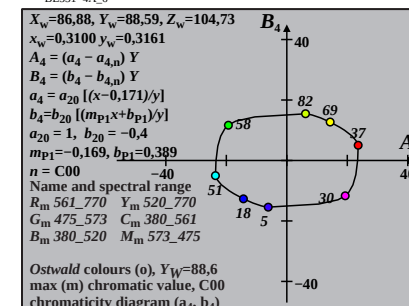
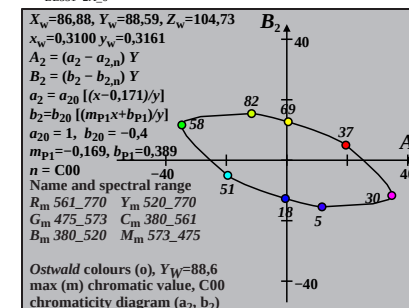
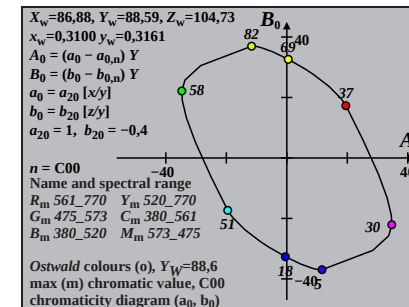
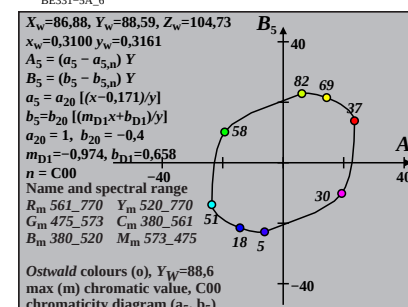
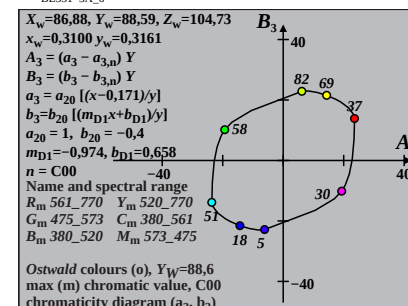
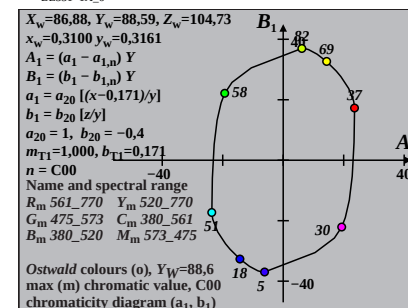
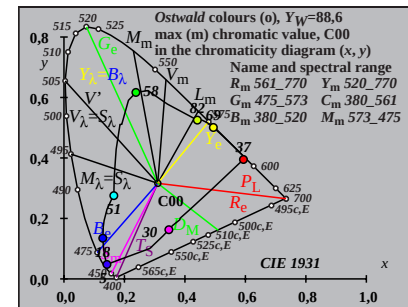


Ostwald optimal colours (o) of maximum (m) C_{AB} for C00, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	51.1	-19.54	-17.3	26.1	0.5982	-0.8115	221.5	16 482	37 589	Cm
6 435	32 563	51.69	-23.59	-9.26	25.35	0.5242	-0.6521	201.4	17 486	42 612	
10 450	32 564	52.35	-30.25	5.27	30.71	0.4027	-0.3721	170.1	19 496	-1 496c	
11 460	33 566	53.63	-31.86	9.38	33.22	0.3865	-0.2979	163.5	20 501	-1 501c	
13 465	33 568	54.22	-33.89	15.83	37.41	0.3556	-0.1808	154.9	22 513	-1 513c	
14 470	34 570	55.77	-34.55	18.96	39.42	0.3611	-0.1328	151.2	24 522	-1 522c	
15 475	35 575	58.4	-34.72	22.12	41.17	0.3861	-0.0941	147.4	26 530	-1 530c	Gm
16 480	36 582	62.97	-33.68	25.74	42.4	0.4457	-0.064	142.6	28 540	-1 540c	
16 485	40 602	73.14	-28.46	30.55	41.75	0.5915	-0.0552	132.9	30 551	-1 551c	
18 490	-1 490c	82.68	-11.63	36.96	38.75	0.8399	-0.0257	107.4	33 566	11 459	max
19 495	-1 495c	81.3	-10.32	36.91	38.33	0.8536	-0.0188	105.6	33 567	12 462	
19 500	-1 499c	81.3	-10.32	36.91	38.33	0.8536	-0.0188	105.6	33 567	12 462	
21 510	-1 509c	77.66	-6.8	35.96	36.59	0.893	-0.0098	100.7	33 568	13 466	
24 520	-1 520c	69.63	0.45	32.65	32.65	0.9872	-0.0039	89.2	34 572	14 472	Ym
26 530	-1 530c	62.62	5.96	29.47	30.07	1.076	-0.0021	78.5	35 575	15 475	
28 540	-1 540c	54.54	11.4	25.72	28.14	1.1898	-0.0012	66.0	35 579	15 478	
28 545	-1 544c	54.54	11.4	25.72	28.14	1.1898	-0.0012	66.0	35 579	15 478	
29 550	-1 549c	50.25	13.89	23.71	27.48	1.2572	-0.0009	59.6	36 581	15 479	
31 555	-1 555c	41.49	17.97	19.59	26.59	1.4138	-0.0006	47.4	37 586	16 481	
31 560	-1 559c	41.49	17.97	19.59	26.59	1.4138	-0.0006	47.4	37 586	16 481	
32 562	1 405	48.89	19.54	17.3	26.1	1.3804	-0.1189	41.5	37 589	16 482	Rm
32 563	6 435	48.3	23.59	9.26	25.35	1.4692	-0.281	21.4	42 612	17 486	
32 564	10 450	47.64	30.25	-5.27	30.71	1.6157	-0.5836	350.1	-1 496c	19 496	
33 566	11 460	46.36	31.86	-9.38	33.22	1.668	-0.6752	343.5	-1 501c	20 501	
33 568	13 465	45.77	33.89	-15.83	37.41	1.7213	-0.8189	334.9	-1 513c	22 513	
34 570	14 470	44.22	34.55	-18.96	39.42	1.7621	-0.9018	331.2	-1 522c	24 522	
35 575	15 475	41.59	34.72	-22.12	41.17	1.8156	-1.0048	327.4	-1 530c	26 530	Mm
36 582	16 480	37.02	33.68	-25.74	42.4	1.8905	-1.1682	322.6	-1 540c	28 540	
40 602	16 485	26.85	28.46	-30.55	41.75	2.0405	-1.6104	312.9	-1 551c	30 551	
-1 490c	18 490	17.31	11.63	-36.96	38.75	1.6528	-2.6079	287.4	11 459	33 566	min
-1 495c	19 495	18.69	10.32	-36.91	38.33	1.5331	-2.4471	285.6	12 462	33 567	
-1 499c	19 500	18.69	10.32	-36.91	38.33	1.5331	-2.4471	285.6	12 462	33 567	
-1 509c	21 510	22.33	6.8	-35.96	36.59	1.2854	-2.083	280.7	13 466	33 568	
-1 520c	24 520	30.36	-0.45	-32.65	32.65	0.9657	-1.5483	269.2	14 472	34 572	Bm
-1 530c	26 530	37.37	-5.96	-29.47	30.07	0.821	-1.2615	258.5	15 475	35 575	
-1 540c	28 540	45.45	-11.4	-25.72	28.14	0.7297	-1.0389	246.0	15 478	35 579	
-1 544c	28 545	45.45	-11.4	-25.72	28.14	0.7297	-1.0389	246.0	15 478	35 579	
-1 549c	29 550	49.74	-13.89	-23.71	27.48	0.7014	-0.9496	239.6	15 479	36 581	
-1 555c	31 555	58.5	-17.97	-19.59	26.59	0.6734	-0.8079	227.4	16 481	37 586	
-1 559c	31 560	58.5	-17.97	-19.59	26.59	0.6734	-0.8079	227.4	16 481	37 586	
380	770	88.59	0.0	0.0	0.01	0.9807	-0.4729	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant C00; diagram for illuminant C00, $Y_w=88.6$



input: w/rgb/cmyk -> rgb

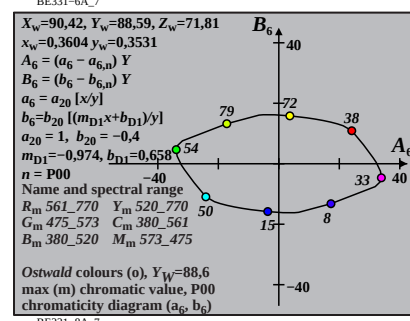
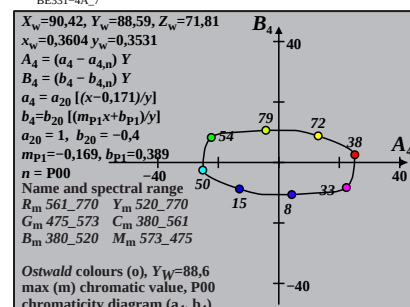
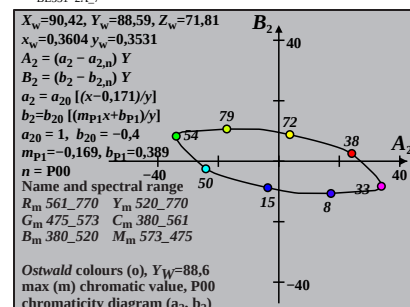
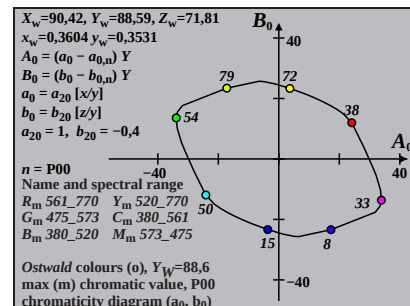
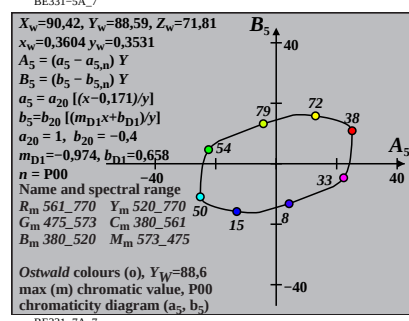
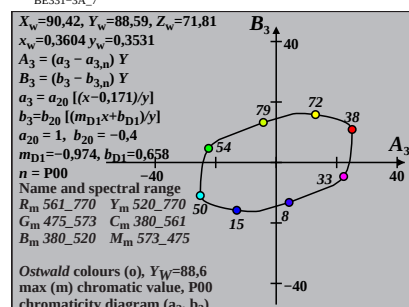
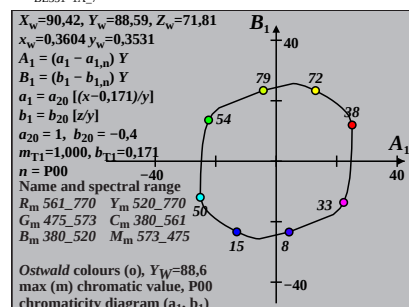
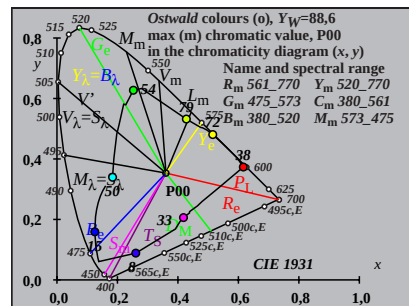
Ostwald optimal colours (o) of maximum (m) C_{AB} for P00, $Y_w=88,6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	33 567	50.33	-24.12	-11.96	26.92	0.5413	-0.5619	206.3	17 486	38 594	Cm
7 435	33 567	50.61	-27.97	-4.18	28.28	0.4679	-0.407	188.5	18 491	-1 491c	
10 450	33 568	51.06	-31.16	2.97	31.31	0.4103	-0.2659	174.5	19 499	-1 499c	
12 460	34 570	51.65	-32.91	7.66	33.79	0.3834	-0.1758	166.8	21 507	-1 507c	
13 465	34 571	52.22	-33.48	9.79	34.88	0.3796	-0.1366	163.6	22 513	-1 513c	
13 470	34 572	53.56	-33.61	10.22	35.13	0.3931	-0.1332	163.0	23 515	-1 515c	
15 475	35 575	54.9	-33.94	13.6	36.57	0.4024	-0.0765	158.1	25 529	-1 529c	Gm
16 480	36 580	57.9	-33.49	15.58	36.94	0.4422	-0.055	155.0	27 537	-1 537c	
17 485	37 589	63.52	-31.34	18.18	36.23	0.5273	-0.0379	149.8	29 547	-1 547c	
18 490	45 625	78.78	-16.44	23.72	28.87	0.8119	-0.023	124.7	32 564	-1 564c	max
18 495	-1 494c	84.48	-7.59	25.57	26.67	0.9308	-0.0215	106.5	34 570	12 460	
20 500	-1 500c	82.05	-5.16	25.6	26.12	0.9577	-0.0121	101.3	34 571	13 465	
22 510	-1 510c	78.23	-1.35	24.85	24.88	1.0033	-0.0066	93.1	34 573	14 470	Ym
24 520	-1 520c	72.8	3.67	23.34	23.62	1.0711	-0.0036	81.0	35 575	14 474	
25 530	-1 529c	69.57	6.43	22.37	23.27	1.1131	-0.0027	73.9	35 577	15 476	
28 540	-1 540c	58.47	14.66	18.89	23.91	1.2713	-0.0011	52.1	36 582	16 481	
28 545	-1 544c	58.47	14.66	18.89	23.91	1.2713	-0.0011	52.1	36 582	16 481	
30 550	-1 550c	50.39	19.36	16.3	25.31	1.4049	-0.0007	40.0	37 586	16 483	
30 555	-1 554c	50.39	19.36	16.3	25.31	1.4049	-0.0007	40.0	37 586	16 483	
32 560	-1 560c	42.17	22.82	13.65	26.59	1.5618	-0.0005	30.8	38 591	17 485	
33 567	1 405	49.66	24.12	11.96	26.92	1.5064	-0.0833	26.3	38 594	17 486	Rm
33 567	7 435	49.38	27.97	4.18	28.28	1.5871	-0.2394	8.5	-1 491c	18 491	
33 568	10 450	48.93	31.16	-2.97	31.31	1.6576	-0.385	354.5	-1 499c	19 499	
34 570	12 460	48.34	32.91	-7.66	33.79	1.7014	-0.4827	346.8	-1 507c	21 507	
34 571	13 465	47.77	33.48	-9.79	34.88	1.7215	-0.5293	343.6	-1 513c	22 513	
34 572	13 470	46.43	33.61	-10.22	35.13	1.7445	-0.5445	343.0	-1 515c	23 515	
35 575	15 475	45.09	33.94	-13.6	36.57	1.7735	-0.6258	338.1	-1 529c	25 529	Mm
36 580	16 480	42.09	33.49	-15.58	36.94	1.8161	-0.6945	335.0	-1 537c	27 537	
37 589	17 485	36.47	31.34	-18.18	36.23	1.8799	-0.8229	329.8	-1 547c	29 547	
45 625	18 490	21.21	16.44	-23.72	28.87	1.796	-1.4429	304.7	-1 564c	32 564	min
-1 494c	18 495	15.51	7.59	-25.57	26.67	1.5099	-1.9729	286.5	12 460	34 570	
-1 500c	20 500	17.94	5.16	-25.6	26.12	1.3082	-1.7514	281.3	13 465	34 571	
-1 510c	22 510	21.76	1.35	-24.85	24.88	1.083	-1.4663	273.1	14 470	34 573	
-1 520c	24 520	27.19	-3.67	-23.34	23.62	0.8855	-1.1826	261.0	14 474	35 575	Bm
-1 529c	25 530	30.42	-6.43	-22.37	23.27	0.8091	-1.0595	253.9	15 476	35 577	
-1 540c	28 540	41.52	-14.66	-18.89	23.91	0.6675	-0.7792	232.1	16 481	36 582	
-1 544c	28 545	41.52	-14.66	-18.89	23.91	0.6675	-0.7792	232.1	16 481	36 582	
-1 550c	30 550	49.6	-19.36	-16.3	25.31	0.6302	-0.6529	220.0	16 483	37 586	
-1 554c	30 555	49.6	-19.36	-16.3	25.31	0.6302	-0.6529	220.0	16 483	37 586	
-1 560c	32 560	57.82	-22.82	-13.65	26.59	0.6259	-0.5603	210.8	17 485	38 591	
380	770	88.59	0.0	0.0	0.01	1.0206	-0.3242	0.0			

TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant P00; diagram for illuminant P00, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



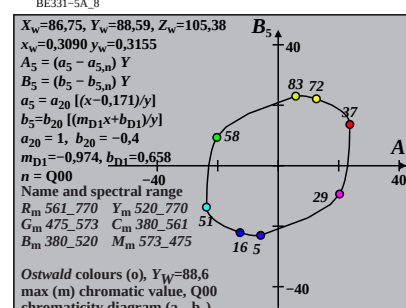
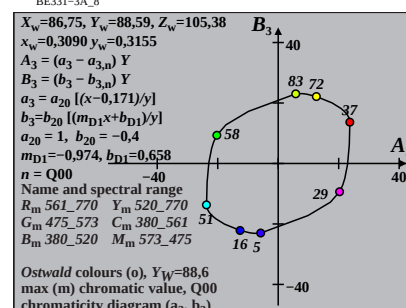
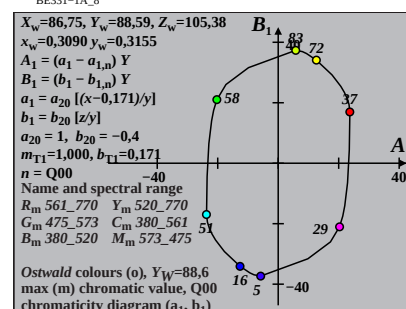
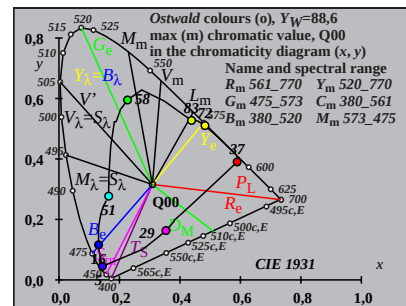
Ostwald optimal colours (o) of maximum (m) C_{AB} for Q00, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	51.28	-19.83	-16.97	26.1	0.5925	-0.8068	220.5	16 482	38 590	Cm
7 435	32 562	51.72	-26.08	-4.41	26.45	0.475	-0.5611	189.5	17 488	-1 488c	
10 450	32 564	52.44	-31.0	6.48	31.67	0.3881	-0.3521	168.1	19 497	-1 497c	
11 460	33 566	53.67	-32.55	10.42	34.18	0.3728	-0.2816	162.2	20 502	-1 502c	
12 465	33 568	54.66	-33.78	14.0	36.57	0.3611	-0.2196	157.4	21 508	-1 508c	
14 470	34 570	55.78	-35.1	19.49	40.15	0.3499	-0.1264	150.9	24 522	-1 522c	
15 475	35 575	58.38	-35.27	22.49	41.83	0.3751	-0.0905	147.4	26 530	-1 530c	Gm
16 480	36 582	62.99	-34.26	26.03	43.02	0.4354	-0.0625	142.7	27 539	-1 539c	
17 485	40 602	72.6	-28.13	31.61	42.31	0.5918	-0.0404	131.6	30 552	-1 552c	
17 490	-1 489c	84.1	-13.23	37.08	39.37	0.8219	-0.0349	109.6	33 565	11 455	max
18 495	-1 494c	83.02	-12.27	37.32	39.29	0.8314	-0.0262	108.2	33 565	11 458	
20 500	-1 500c	80.01	-9.39	36.91	38.09	0.8619	-0.0144	104.2	33 567	12 463	
21 510	-1 509c	77.94	-7.4	36.26	37.01	0.8843	-0.0105	101.5	33 568	13 465	
23 520	-1 519c	72.51	-2.36	34.09	34.17	0.9466	-0.0056	93.9	34 571	14 470	Ym
26 530	-1 530c	61.69	6.39	29.21	29.9	1.0829	-0.0022	77.6	35 576	15 475	
27 540	-1 539c	57.66	9.22	27.34	28.85	1.1393	-0.0016	71.3	35 578	15 477	
28 545	-1 544c	53.52	11.88	25.4	28.04	1.2014	-0.0012	64.9	36 580	15 478	
29 550	-1 549c	49.33	14.3	23.43	27.45	1.2693	-0.0009	58.5	36 582	15 479	
30 555	-1 554c	45.14	16.42	21.44	27.01	1.3431	-0.0007	52.5	36 584	16 480	
31 560	-1 559c	40.99	18.19	19.47	26.65	1.4231	-0.0006	46.9	37 587	16 481	
32 562	1 405	48.71	19.83	16.97	26.1	1.3864	-0.1273	40.5	38 590	16 482	Rm
32 562	7 435	48.27	26.08	4.41	26.45	1.5196	-0.3844	9.5	-1 488c	17 488	
32 564	10 450	47.55	31.0	-6.48	31.67	1.6311	-0.6121	348.1	-1 497c	19 497	
33 566	11 460	46.32	32.55	-10.42	34.18	1.682	-0.7007	342.2	-1 502c	20 502	
33 568	12 465	45.33	33.78	-14.0	36.57	1.7246	-0.7846	337.4	-1 508c	21 508	
34 570	14 470	44.21	35.1	-19.49	40.15	1.7734	-0.9166	330.9	-1 522c	24 522	
35 575	15 475	41.61	35.27	-22.49	41.83	1.827	-1.0163	327.4	-1 530c	26 530	Mm
36 582	16 480	37.0	34.26	-26.03	43.02	1.9052	-1.1793	322.7	-1 539c	27 539	
40 602	17 485	27.39	28.13	-31.61	42.31	2.0061	-1.6296	311.6	-1 552c	30 552	
-1 489c	17 490	15.89	13.23	-37.08	39.37	1.8117	-2.8086	289.6	11 455	33 565	min
-1 494c	18 495	16.97	12.27	-37.32	39.29	1.7025	-2.6742	288.2	11 458	33 565	
-1 500c	20 500	19.98	9.39	-36.91	38.09	1.4493	-2.3227	284.2	12 463	33 567	
-1 509c	21 510	22.05	7.4	-36.26	37.01	1.3149	-2.1206	281.5	13 465	33 568	
-1 519c	23 520	27.48	2.36	-34.09	34.17	1.0654	-1.7161	273.9	14 470	34 571	Bm
-1 530c	26 530	38.3	-6.39	-29.21	29.9	0.8124	-1.2384	257.6	15 475	35 576	
-1 539c	27 540	42.33	-9.22	-27.34	28.85	0.7613	-1.1216	251.3	15 477	35 578	
-1 544c	28 545	46.47	-11.88	-25.4	28.04	0.7235	-1.0224	244.9	15 478	36 580	
-1 549c	29 550	50.66	-14.3	-23.43	27.45	0.6969	-0.9383	238.5	15 479	36 582	
-1 554c	30 555	54.85	-16.42	-21.44	27.01	0.6798	-0.8668	232.5	16 480	36 584	
-1 559c	31 560	59.0	-18.19	-19.47	26.65	0.671	-0.8059	226.9	16 481	37 587	
380	770	88.59	0.0	0.0	0.01	0.9793	-0.4758	0.0			

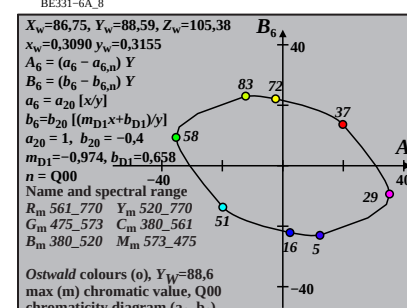
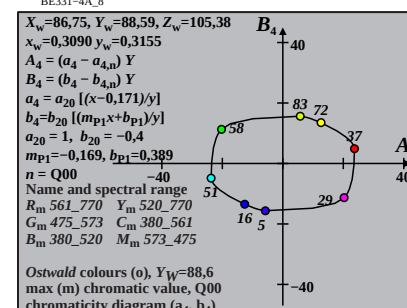
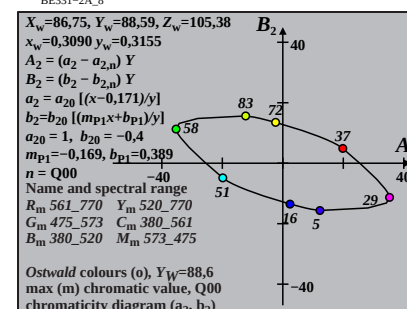
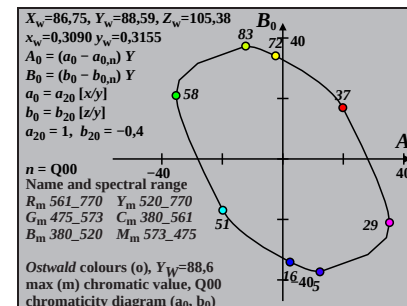
TUB-test chart BE33; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant Q00; diagram for illuminant Q00, $Y_w=88.6$

input: w/rgb/cmyk -> rgb



BE331-1A_8



BE331-2A_8