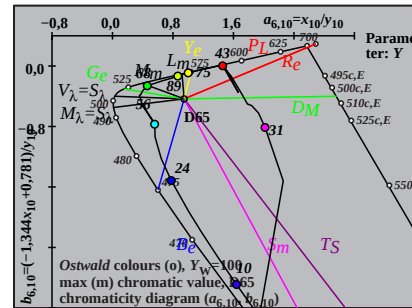
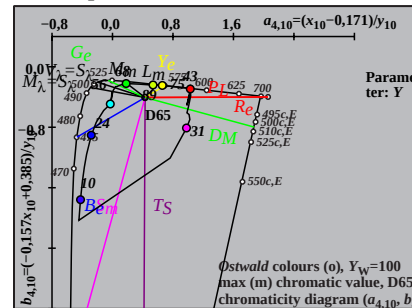
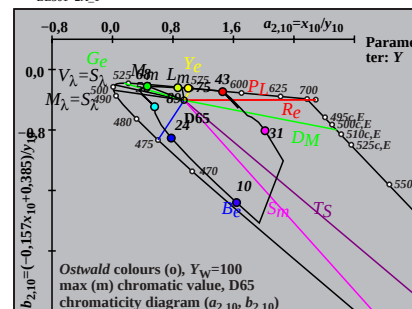
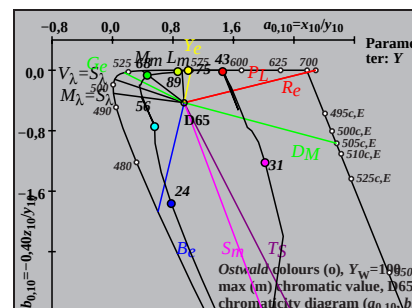
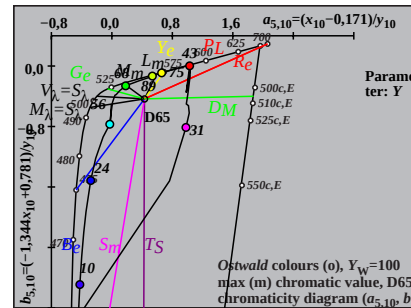
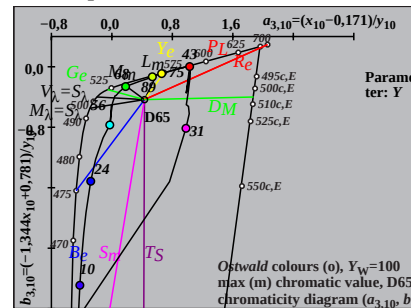
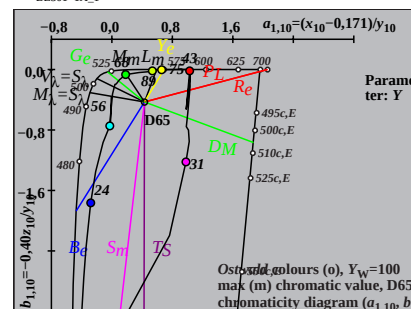
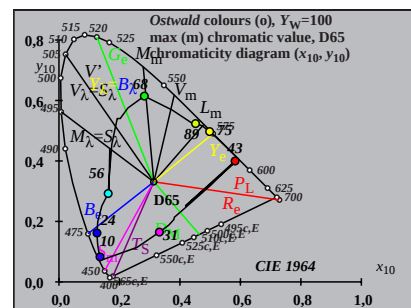


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for D65, $Y_{w,10}=100$, $Y_m=520_770$

i_0	λ_1	i_0	λ_2	X_{10}	Y_{10}	Z_{10}	x_{1010}	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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 BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant D65; diagram for illuminant D65, $Y_{w,10}=100$



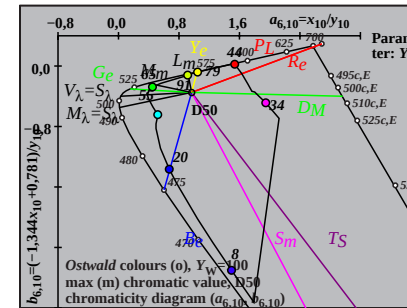
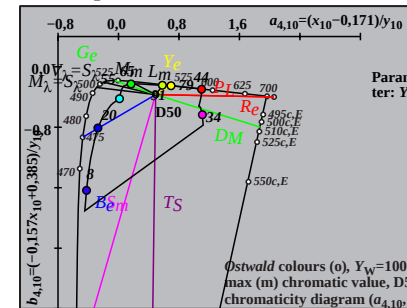
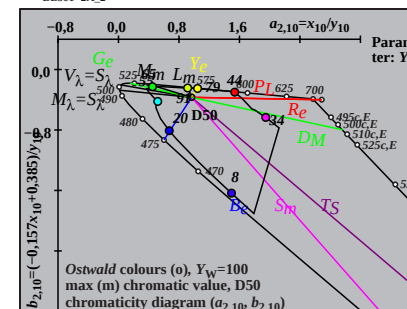
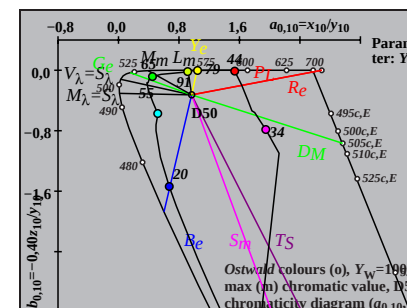
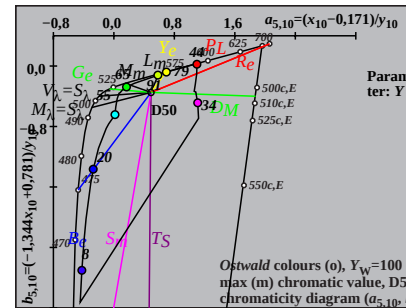
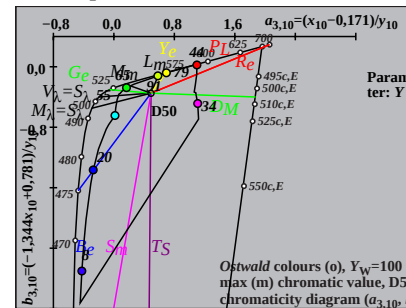
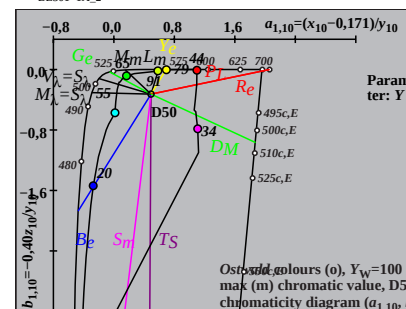
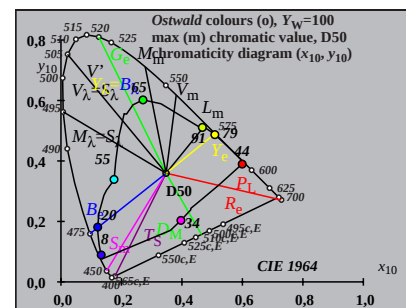
TUB registration: 20170801-BE30/BE30L0NP.PDF / PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for D50, $Y_{w,10}=100$, $Y_m=520_770$

i_D	λ_1	i_D	λ_2	X_{10}	Y_{10}	Z_{10}	$x_{10,10}$	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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				

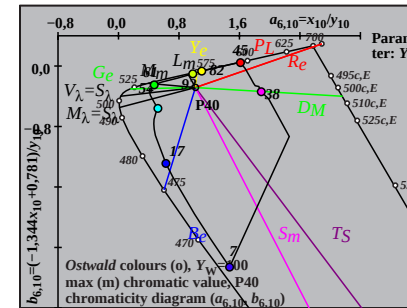
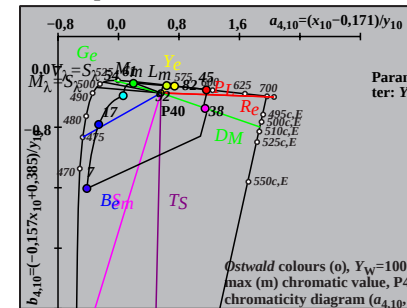
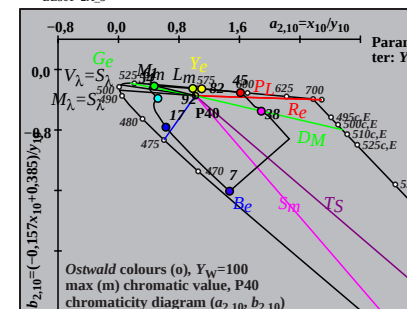
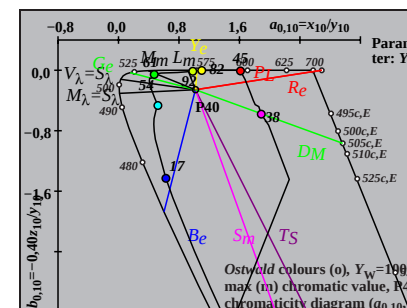
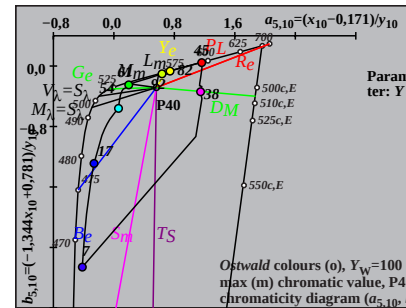
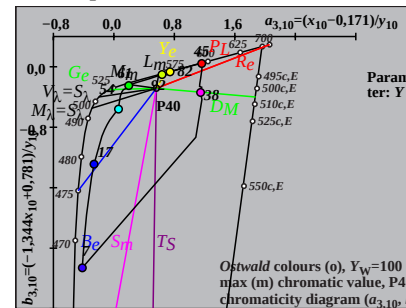
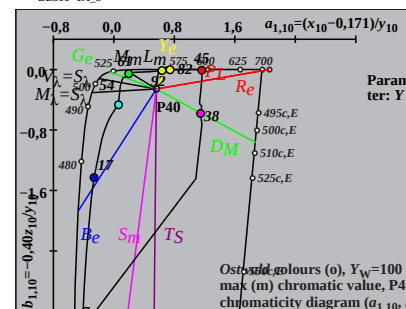
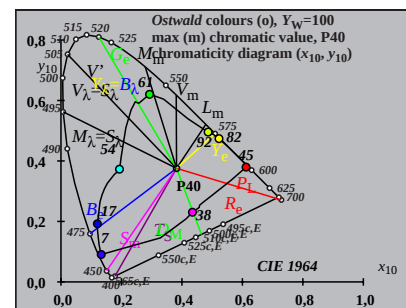
TUB-test chart BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant D50; diagram for illuminant D50, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P40, $Y_{w,10}=100$, $Y_m=520_770$

i_0	λ_1	i_0	λ_2	X_{10}	Y_{10}	Z_{10}	$x_{10,10}$	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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	0.0					

TUB-test chart BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_{w,10}=100$



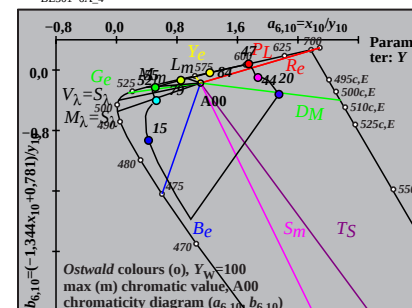
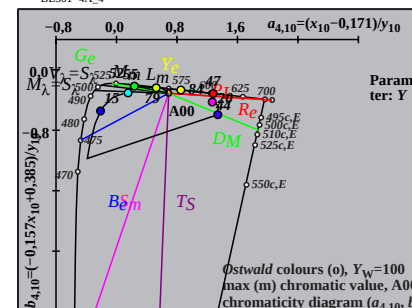
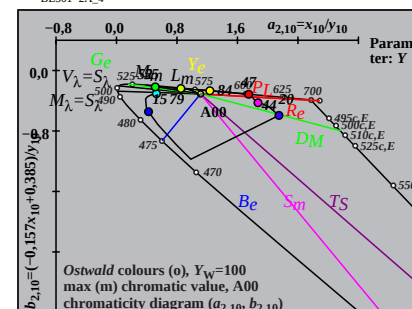
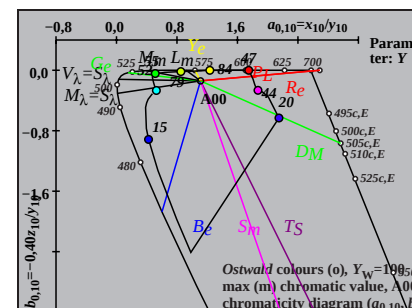
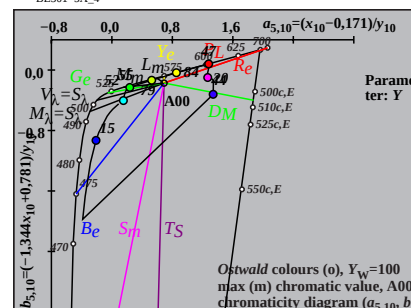
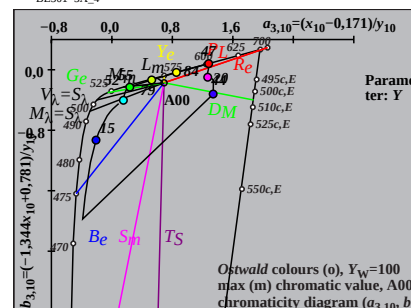
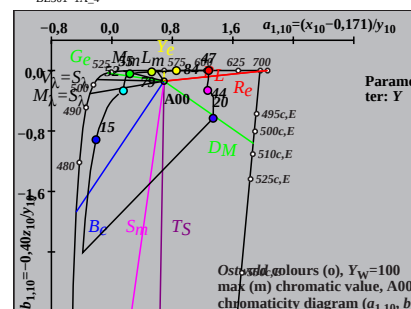
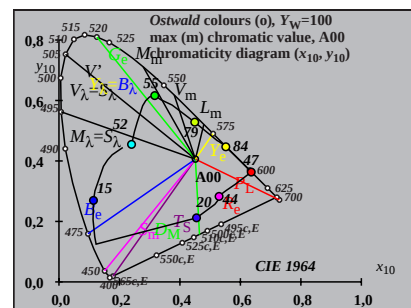
TUB registration: 20170801-BE30/BE30L0NP.PDF / PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for A00, $Y_{w,10}=100$, $Y_m=520_770$

id	λ_1	λ_2	X_{10}	Y_{10}	Z_{10}	$x_{10,10}$	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_c	Code
1	405	34	570	27.56	52.26	0.2404	0.4558	0.3037	166.6	17	487	39	597 Cm
7	435	34	570	26.38	52.46	0.2494	0.4961	0.2544	155.9	18	491	47	639
9	450	34	571	25.87	52.77	0.2584	0.5271	0.2144	147.8	19	495	-1	495c
12	460	34	572	25.18	52.99	0.2768	0.5826	0.1405	134.6	21	505	-1	505c
13	465	34	573	25.59	53.47	0.2867	0.5992	0.1139	130.3	22	512	-1	512c
14	470	34	574	26.64	54.4	0.2995	0.6116	0.0887	126.3	24	520	-1	520c
15	475	35	576	28.78	55.98	0.3169	0.6164	0.0665	122.5	25	528	-1	528c Gm
16	480	36	581	33.1	59.09	0.342	0.6105	0.0474	118.0	27	537	-1	537c
17	485	37	588	41.89	64.82	0.3802	0.5884	0.0313	111.2	29	547	-1	547c
18	490	41	609	67.88	78.98	0.4542	0.5284	0.0173	88.5	32	561	-1	561c max
19	495	-1	495c	105.71	94.47	0.523	0.4674	0.0095	40.5	34	573	13	465
20	500	-1	500c	105.69	93.13	0.5278	0.4651	0.007	37.6	34	573	13	468
21	510	-1	509c	105.61	91.52	0.5329	0.4618	0.0052	34.3	34	574	14	470
24	520	-1	520c	104.68	84.75	0.5515	0.4465	0.0018	22.0	35	577	15	476 Ym
25	530	-1	529c	103.98	81.86	0.5588	0.4399	0.0012	17.5	35	578	15	477
27	540	-1	539c	101.75	75.17	0.5748	0.4246	0.0004	8.6	36	581	16	480
29	545	-1	545c	98.18	67.47	0.5926	0.4072	0.0	0.5	37	585	16	483
30	550	-1	550c	95.8	63.33	0.602	0.3979	0.0	356.9	37	587	16	484
31	555	-1	555c	92.94	59.02	0.6116	0.3883	0.0	353.7	37	589	17	485
32	560	-1	560c	89.59	54.59	0.6213	0.3786	0.0	350.9	38	592	17	486
34	570	1	405	83.58	47.73	0.6346	0.3624	0.0028	346.6	39	597	17	487 Rm
34	570	7	435	84.76	47.53	0.6029	0.338	0.0589	335.9	47	639	18	491
34	571	9	450	85.27	47.22	0.5831	0.3229	0.0939	327.8	-1	495c	19	495
34	572	12	460	85.96	47.0	0.5532	0.3024	0.1442	314.6	-1	505c	21	505
34	573	13	465	85.55	46.52	0.5445	0.2961	0.1593	310.4	-1	512c	22	512
34	574	14	470	84.5	45.59	0.5368	0.2896	0.1734	306.4	-1	520c	24	520
35	576	15	475	82.36	44.01	0.5295	0.2829	0.1874	302.5	-1	528c	25	528 Mm
36	581	16	480	78.04	40.9	0.5218	0.2735	0.2046	298.1	-1	537c	27	537
37	588	17	485	69.25	35.17	0.5086	0.2582	0.2331	291.2	-1	547c	29	547
41	609	18	490	43.26	21.01	0.4465	0.2169	0.3365	268.6	-1	561c	32	561 min
-1	495c	19	495	5.43	5.52	0.1228	0.1248	0.7523	220.5	13	465	34	573
-1	500c	20	500	5.45	6.86	0.1184	0.1488	0.7327	217.6	13	468	34	573
-1	509c	21	510	5.53	8.47	0.1148	0.1759	0.7091	214.3	14	470	34	574
-1	520c	24	520	6.46	15.24	0.1143	0.2695	0.616	202.0	15	476	35	577 Bm
-1	529c	25	530	7.16	18.13	0.1189	0.3009	0.5801	197.5	15	477	35	578
-1	539c	27	540	9.39	24.82	0.1354	0.358	0.5065	188.6	16	480	36	581
-1	545c	29	545	12.96	32.52	0.1606	0.4031	0.4361	180.5	16	483	37	585
-1	550c	30	550	15.34	36.66	0.1759	0.4204	0.4035	176.9	16	484	37	587
-1	555c	31	555	18.2	40.97	0.1928	0.4341	0.3729	173.7	17	485	37	589
-1	560c	32	560	21.55	45.4	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					

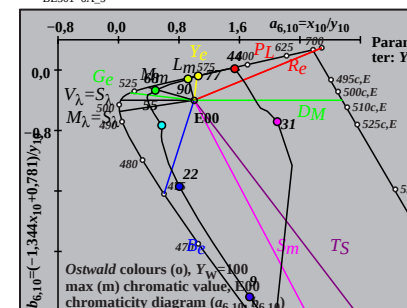
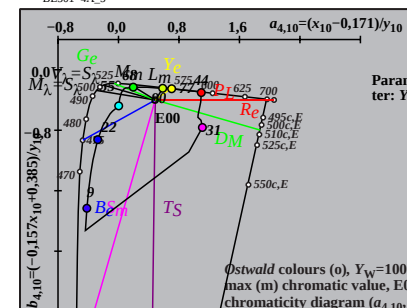
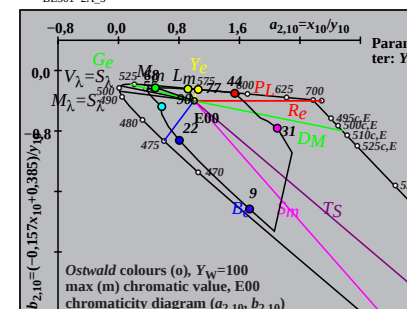
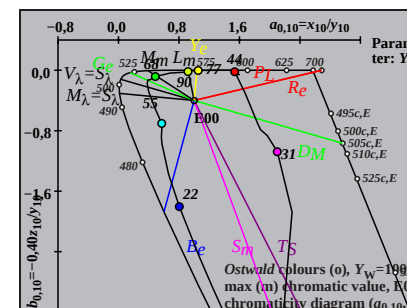
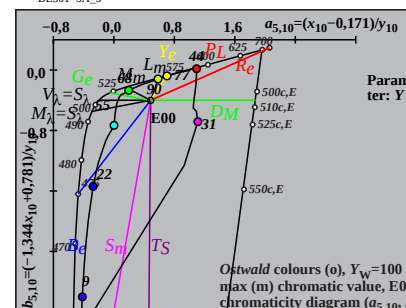
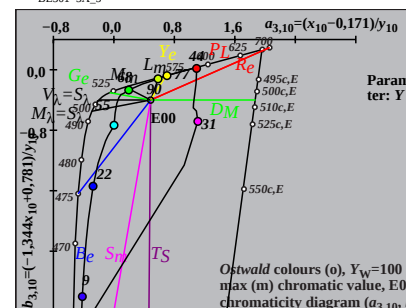
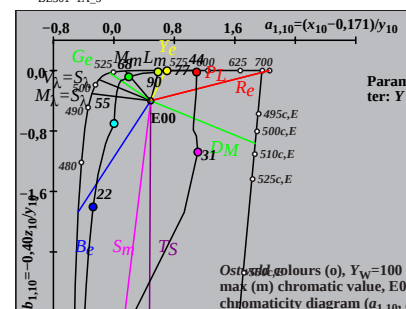
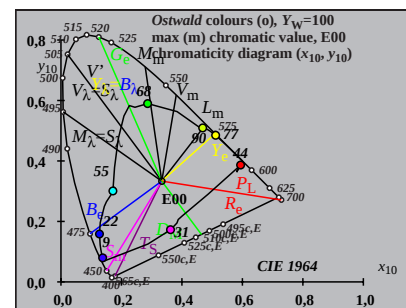
TUB-test chart BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant A00; diagram for illuminant A00, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for E00, $Y_{w,10}=100$, $Y_m=520_770$

i_0	λ_1	i_0	λ_2	X_{10}	Y_{10}	Z_{10}	x_{1010}	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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	0.3333	0.3333	0.0				

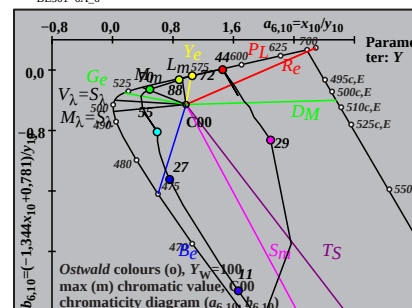
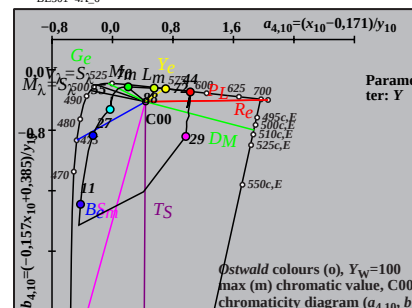
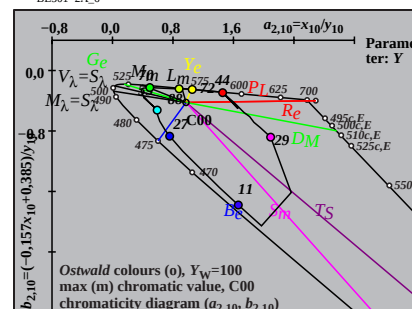
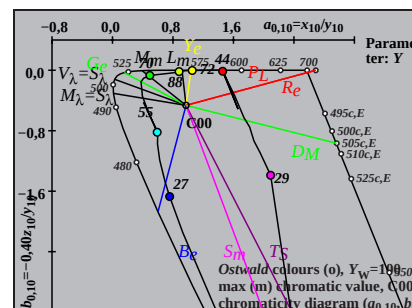
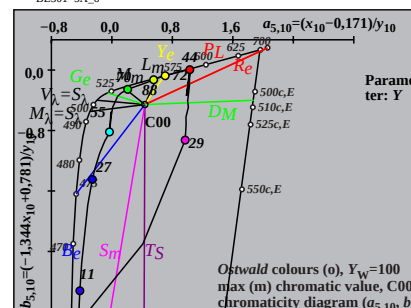
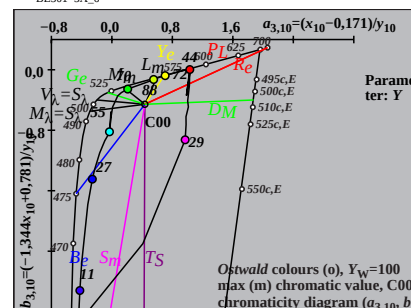
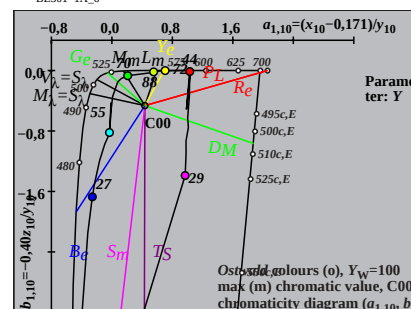
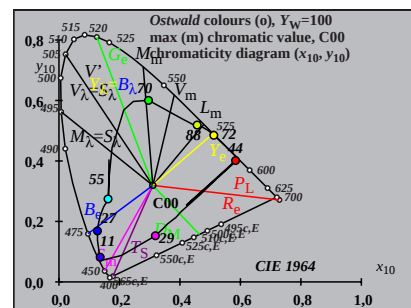
TUB-test chart BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant E00; diagram for illuminant E00, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for C00, $Y_{w,10}=100$, $Y_m=520_770$

i_0	λ_1	i_0	λ_2	X_{10}	Y_{10}	Z_{10}	$x_{10,10}$	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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
-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						

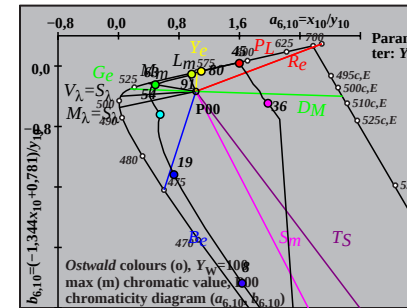
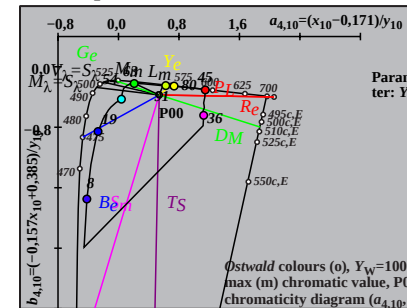
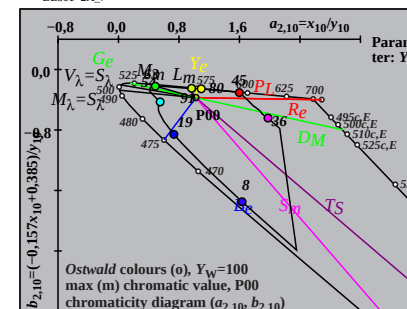
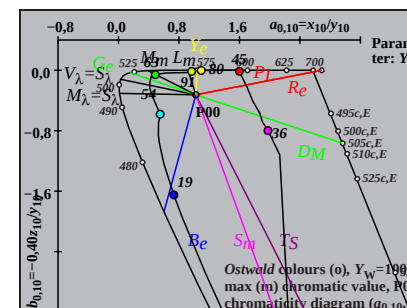
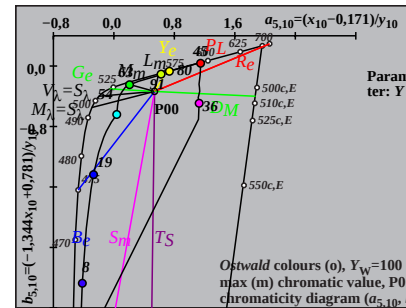
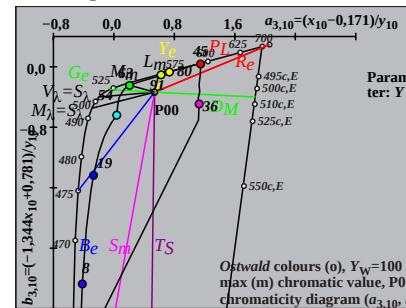
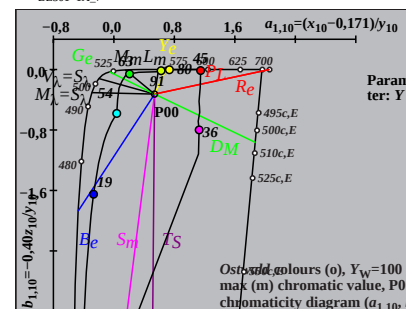
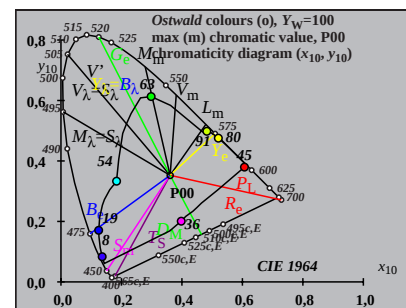
TUB-test chart BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant C00; diagram for illuminant C00, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P00, $Y_{w,10}=100$, $Y_m=520_770$

i_0	λ_1	i_0	λ_2	X_{10}	Y_{10}	Z_{10}	$x_{10,10}$	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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 BE30; CIE (x_{10} , y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P00; diagram for illuminant P00, $Y_{w,10}=100$



TUB registration: 20170801-BE30/BE30L0NP.PDF /PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for Q00, $Y_{w,10}=100$, $Y_m=520_770$

i_0	λ_1	i_0	λ_2	X_{10}	Y_{10}	Z_{10}	$x_{10,10}$	y_{10}	z_{10}	$h_{10xy,10}$	λ_d	i_c	λ_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 BE30; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant Q00; diagram for illuminant Q00, $Y_{w,10}=100$

