

Figure 2: Output power as a function of the singlemode emission frequencies and temperatures

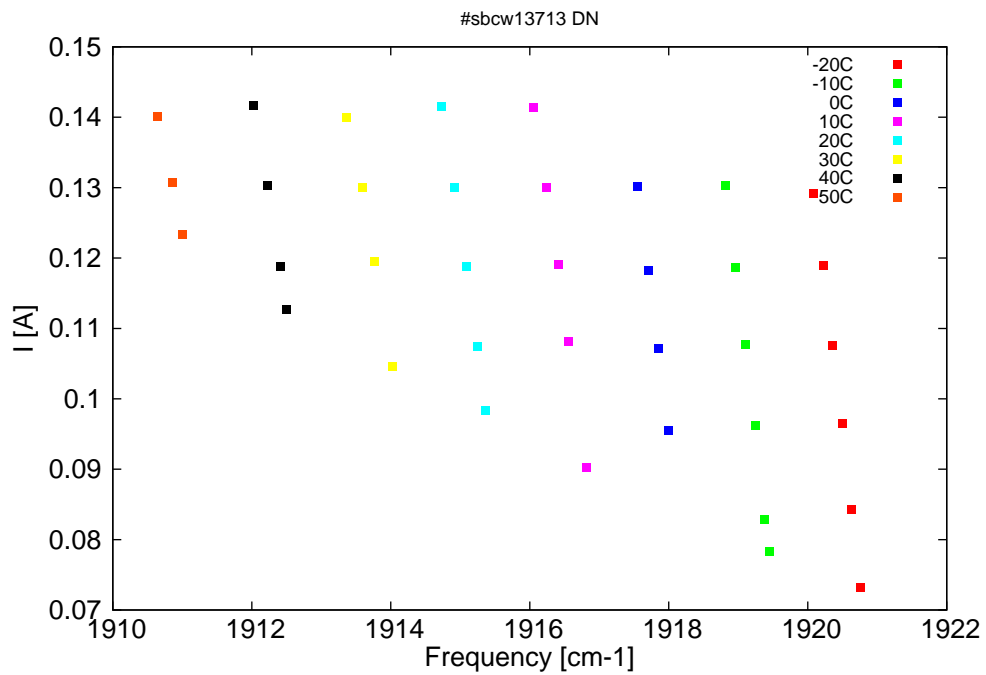


Figure 3: Applied DC current as a function of singlemode emission frequencies and temperatures

λ [nm]	ν [cm ⁻¹]	P[mW]	Temp[°C]	U_{LASER} [V]	I[A]
5206.3	1920.8	0	-20	7.5	0.07
5206.6	1920.6	3.2	-20	7.6	0.08
5207	1920.5	7.1	-20	7.8	0.1
5207.4	1920.4	10.7	-20	7.9	0.11
5207.7	1920.2	13.6	-20	8.1	0.12
5208.1	1920.1	15.9	-20	8.3	0.13
5209.8	1919.4	0.3	-10	7.5	0.08
5210	1919.4	1.2	-10	7.6	0.08
5210.4	1919.3	5.1	-10	7.8	0.1
5210.8	1919.1	8	-10	7.9	0.11
5211.1	1919	10.4	-10	8.1	0.12
5211.6	1918.8	12.4	-10	8.3	0.13
5213.8	1918	2.7	0	7.7	0.1
5214.2	1917.9	6	0	7.9	0.11
5214.6	1917.7	8.3	0	8.1	0.12
5215	1917.5	10.4	0	8.2	0.13
5217	1916.8	0.1	10	7.6	0.09
5217.7	1916.6	3.9	10	7.9	0.11
5218.1	1916.4	6	10	8.1	0.12
5218.5	1916.2	7.7	10	8.2	0.13
5219.1	1916.1	8.9	10	8.4	0.14
5220.9	1915.4	0.3	20	7.7	0.1
5221.3	1915.2	2	20	7.9	0.11
5221.7	1915.1	4	20	8	0.12
5222.2	1914.9	5.5	20	8.2	0.13
5222.7	1914.7	6.7	20	8.4	0.14
5224.6	1914	0.1	30	7.8	0.1
5225.3	1913.8	2.3	30	8	0.12
5225.8	1913.6	3.7	30	8.2	0.13
5226.4	1913.4	4.6	30	8.4	0.14
5228.7	1912.5	0.1	40	7.9	0.11
5229	1912.4	0.8	40	8	0.12
5229.5	1912.2	2.1	40	8.2	0.13
5230.1	1912	3.2	40	8.4	0.14
5232.9	1911	0.1	50	8.1	0.12
5233.3	1910.9	0.7	50	8.2	0.13
5233.8	1910.6	1.5	50	8.4	0.14

Table 1: Singlemode optical output power as function of operating parameters.

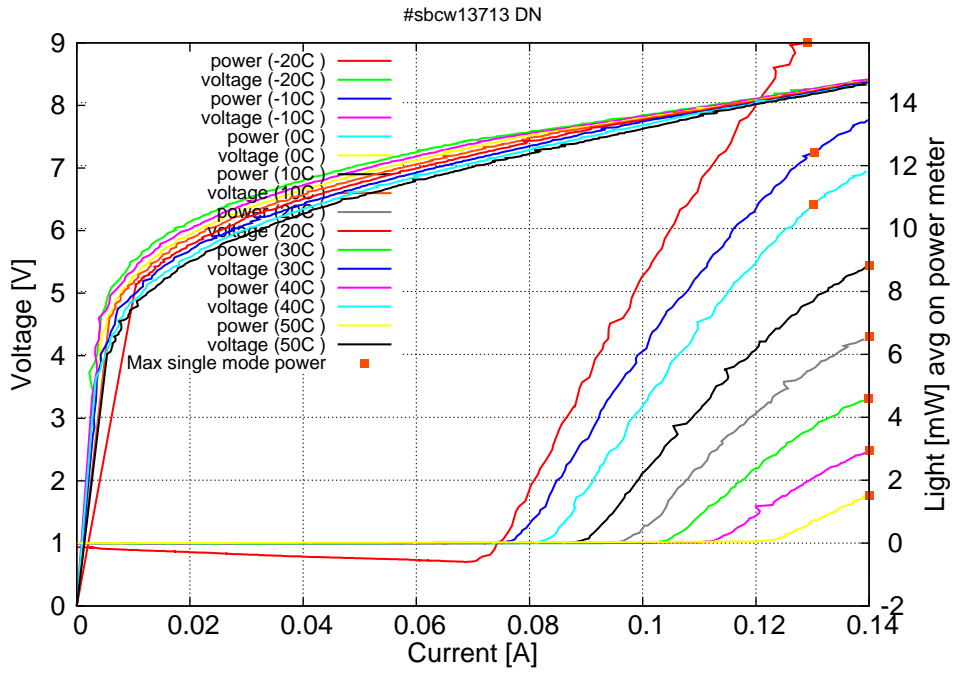


Figure 4: voltage and avg power vs current in continuous-wave operation (the solid squares indicate the maximum singlemode emitted power)

Note: at -20C: $I_{th}=0.07A$ / $V_{th}=7.5V$ (2-wires measurements). Maximum operation current: 0.13A between -20C and 0C, 0.14A between 10C and 50C.

Figure 3: spectra at different temperatures for various DC currents

