

## DLNSEC0520 Test Report

Your DLNSEC0520 is a high performance diode laser with sub-nanosecond modulation capability. Swabian Instruments and Labs Electronics are determined to deliver to you a product that meets highest quality standards. We have carefully tested the features and performed a number of system tests. The test results are summarized below. Please contact us if you have any questions.

### Device

Serial: 0520\_00012      Firmware: V1      Hardware: V1      Test: 1.0      Time: 2018-08-01 15:58

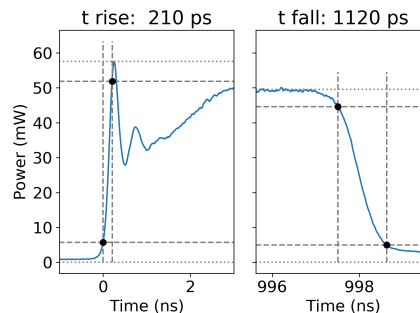
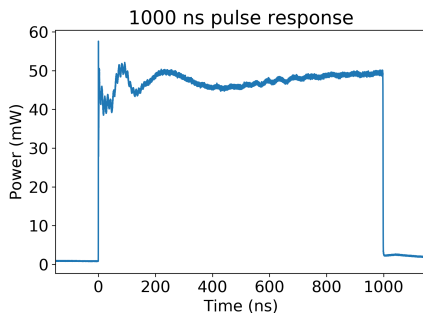
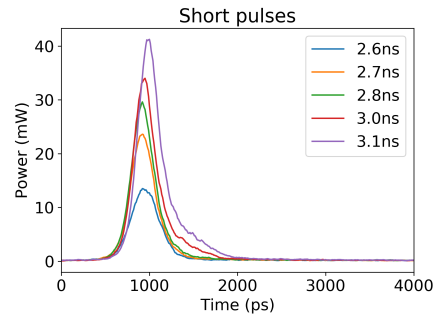
### System Tests

CW power:            46.2 mW    ✓  
 SCPI commands:    ✓  
 Short pulses:        ✓  
 Rise and fall time:   ✓  
 Power settings:     ✓  
 All tests:            ✓

### Trigger input and pulse response

The trigger input and the resulting output pulses are created with an pulse pattern gerator attached to the DLnSec. The pulse shape is measured via an APD (IDQ id100, high attenuation) connected to a Time Tagger taking a histogram of the incoming photons. Please note that the pulse height and response depends on the duty cycle.

trigger duration	peak power	pulse energy	FWHM
2.6 ns	14.1 mW	5.2 pJ	370 ps
2.7 ns	24.0 mW	8.2 pJ	310 ps
2.8 ns	30.0 mW	9.6 pJ	300 ps
3.0 ns	35.4 mW	11.4 pJ	280 ps
3.1 ns	43.0 mW	14.6 pJ	290 ps



### Quality Control

Tested by: Axel Griesmaier

Signature: