



TEST REPORT

PART NUMBER: L-CO-28-0516-000

MODEL: COVERAGE 4.1

SERIAL NUMBER: 202510-1216

TEST REPORT N°: TR1216-01

Tested by	TC	31/03/2026
Approved by	PV	01/04/2026



1- SPECIFICATIONS

1.1 LASER SETTINGS

Label	Unit	Required specifications	Measurement	Result	Remark
Nominal setpoint	%	100	100	PASS	Booster
Default control mode			Software	PASS	

1.2 LASER OPTICAL CHARACTERISTICS (25° C)

Label	Unit	Required specifications			Measurement	Result	Remark
		Min.	Typ.	Max.			
Repetition rate	MHz	/	1	/	1	PASS	
Spectrum bandwidth	nm	/	1900-4100	/	1900-4100	/	
Average output power	W	0.45	0.5	/	0.505	PASS	100 %
Power stability	%	/	/	±1.0	±0.67	PASS	100 %
Temporal seed pulse width	ps	/	70	/	PASS	PASS	
Beam profile		/			Singlemode	PASS	
Polarization state		Unpolarized				N.A.	
Output beam		Collimated			☒	PASS	
Termination type		Reflective collimator			☒	PASS	
Mode diameter	mm	/	/		~5.3	PASS	@3250 nm
Divergence	mrad	/	/	/	~0.1	PASS	@3250 nm

1.3 PHOTODIODES MEASUREMENTS (SOFTWARE)

Label	Unit	Required specifications	Measurement	Result	Remark
Pre-amplifier power 1	mW	/	~64.2	PASS	
Feedback power	mW	/	~1.03	PASS	
Amplifier diode current	A	/	~2.3	PASS	100 %



1.4 LASER ELECTRICAL CHARACTERISTICS (25° C)

Label	Unit	Required specifications			Measurement	Result	Remark
		Min.	Typ.	Max.			
TTL output		/			☒	PASS	
AC Input voltage	V	100	/	240	N. A.	PASS	
AC Input current	A	/	/	5	N. A.	PASS	
AC Frequency	Hz	/	50/60	/	N. A.	PASS	

1.5 OTHER CHARACTERISTICS (25° C)

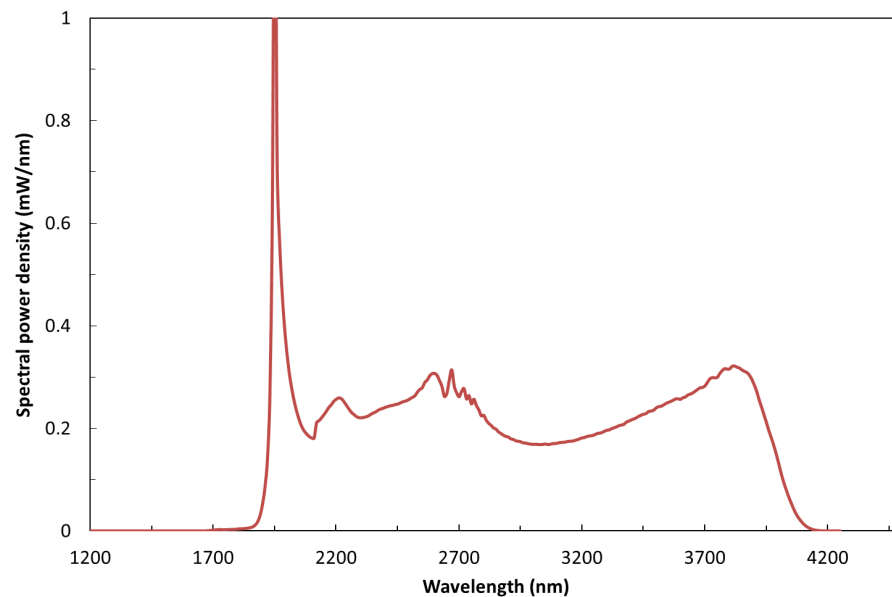
Label	Unit	Required specifications			Measurement	Result	Remark
		Min.	Typ.	Max.			
Warm-up time	min	30			/	PASS	Laser at room temperature
Fiber output length	m	/	1.5	/	~1.5	PASS	
Dimensions WxHxD	mm	500x200x560			☒	PASS	W: Width H: Height D: Depth
Weight	kg	< 30			25.4	PASS	
Safe operating temperature	°C	5	/	40	/	PASS	Non condensing
Optimum operating temperature	°C	15	/	35	/	PASS	Non condensing
Storage temperature	°C	-20	/	60	/	PASS	Non condensing
Altitude	m	<2000			/	PASS	
Relative humidity	%	≤80			/	PASS	≤31°C
		≤50			/	PASS	At 40°C
Interlock test					☒	PASS	
Key test					☒	PASS	
Emission lamp					☒	PASS	
Safety labels		Hazard symbol (front panel)			☒	PASS	
		Hazard symbol (fiber end)			☒	PASS	
		Hazard symbol (collimator)			☒	PASS	
		Laser radiation characteristic label			☒	PASS	
		Class label			☒	PASS	
		Aperture label			☒	PASS	
		Indicating label for access panel			☒	PASS	
Software version					1.0.0.15	PASS	



2- MEASUREMENTS

2.1 OPTICAL SPECTRUM

Range	Spectrum analyzer	ESM	Integrating sphere
1200-4500 nm	BENTHAM (PbSe detectors)	ESM322	NO

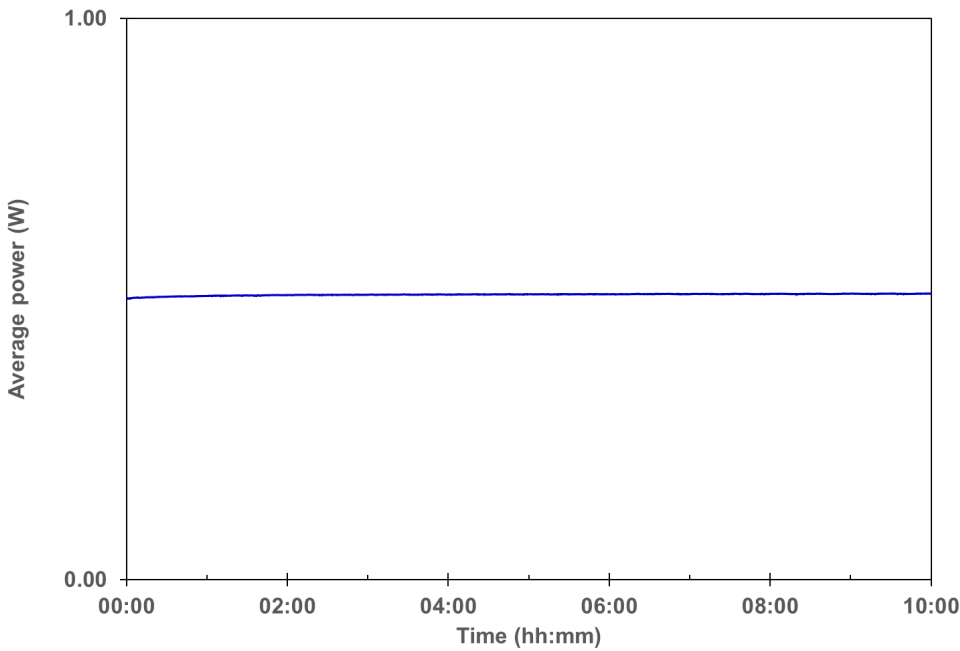


NOTE: the visible light, emitted by the source, is generated into the nonlinear fiber by fluorescent effect and does not affect the single mode propagation of the MIR radiations.



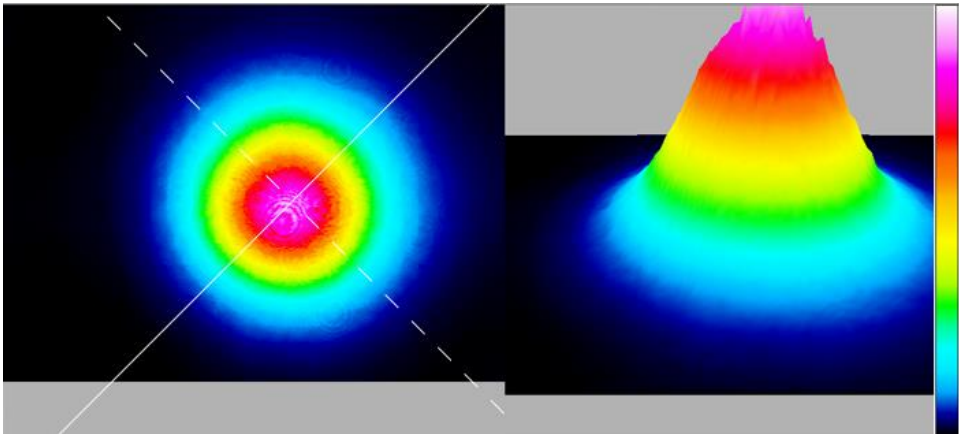
2.2 OUTPUT POWER MEASUREMENT

Power meter	Power sensor	ESM
GENTEC MAESTRO	GENTEC UP19K	ESM51



2.3 OUTPUT BEAM PROFILE MEASUREMENT

Camera	Model	ESM
DATARAY	WinCamD-IR-BB	ESM168

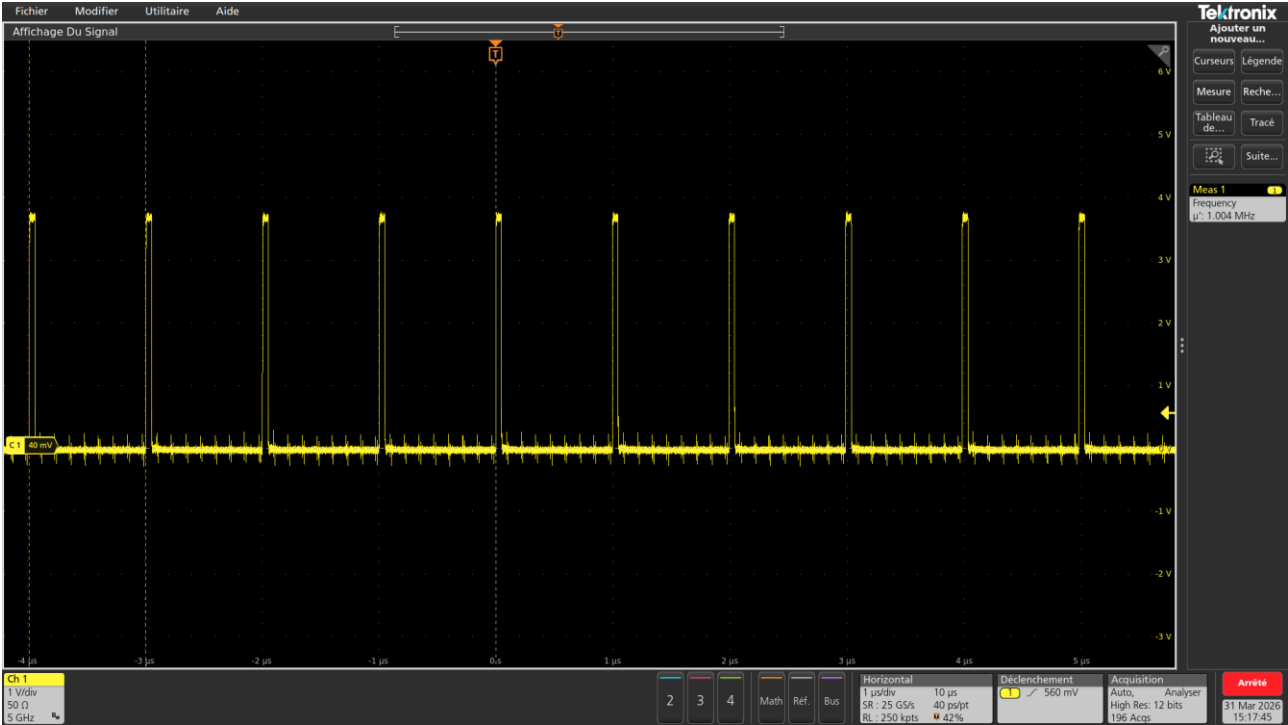


@3250 nm



2.4 TTL OUTPUT MEASUREMENT

Oscilloscope	Model	ESM
TEKTRONIX	MSO64B	85





3- DELIVERY

<i>Items</i>	<i>Delivered</i>	<i>Number</i>
Laser source COVERAGE 4.1	YES	1
Key	YES	2
Interlock connector	YES	1
Interlock cable for Leukos accessories (< 3 m)	NO	/
Three-prong plug cord Type B plug to IEC C13 (< 3 m)	YES	1
USB cable USB B to USB A (< 3 m)	YES	1
USB flash drive (user's manual, test report, software)	YES	1

QUALITY CONTROL CERTIFICATE



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LEUKOS certifies the above instrument has been inspected in accordance with applicable LEUKOS procedures and complies with the quality criteria.

Date: 01/04/2026

Approved by: PV

Signature:

Pierre VIALE