

● Customer Certificate



NMR RT Probe

P/N: Z125331 S/N: 0008 Type: PA TXI 500S1 H-C/N-D-05 Z

Declaration

The specified values listed on this page are valid in the context of the technical specification sheet of this probe. Bruker guarantees these values to be achievable on the customer instrument within the restriction mentioned.

Pulse Specification

Nucleus	Sample	90° Pulse (in µs)	Achieved power (in W)	Maximum allowed peak power (in W)	Remarks
¹ H	Z10263	8.0	10	20	
¹³ C	Z10263	12	210	280	
¹⁵ N	Z10263	33	172	280	

Sensitivities

Nucleus	Sample	Signal-to-Noise Ratio	Remarks
¹ H	Z10120	900	noise: 200 Hz variable, method: sino best

Lineshape

Nucleus	Sample	50% (in Hz) ¹	0.55% (in Hz) ¹	0.11% (in Hz) ¹	Spinning side bands (in %)	Remarks
¹ H	Z10248	0.45	5.0	10.0	2.0	with sample rotation
¹ H	Z10248	0.70	6.0	12.0	-	without sample rotation

Miscellaneous

		Remarks
Gradient Strength	0.50 T/m	10.0 A
Temperature Range	-150 °C to 150 °C	applies only with shim system temperature range of 0 °C to 80 °C

Samples

Sample	Description
Z10120	0.1% Ethylbenzene (EB) in Chloroform-D
Z10248	1% Chloroform (CHCl ₃) in Acetone-D ₆
Z10263	100 mM Urea- ¹⁵ N ([¹⁵ NH ₂] ₂ CO), 100 mM Methanol- ¹³ C (¹³ CH ₃ OH) in Dimethylsulfoxide-D ₆ (DMSO)

Test date: 2012-04-17

¹ Signal line width is measured relative to the total intensity of the signal of interest (chloroform or p-dioxane).

TEST-DATA



SEL	SEI	SEF	SEX	DUL	DUX	BBO	BBI	QNP	QNI	QXI	TXO	TXD	TXI	TBI	TBO
													X		

Probehead No.	Z125331 / 8	EC	0.00	MHz	500	SB	X	WB	
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Produktion	X	Sample Ø	1 mm		8 mm		Dual Flow Insert		
Repair			2.5 mm		10 mm				
Convert			3 mm		20 mm			Probe-Body SB	
			5 mm	X			Probe-Body WB	

OPTIONS			
HT		ATM Acc.	X
LTA		
LTB		
Micro		
Z-Grad.	X	
XYZ-Grad.		
LEAKPRF		
BTO 2000		

Nuc. / Freq. (MHz)	forw. Pulse	forw. CW		
1H 500.130	20 W			
D 76.773	30 W			
X: 13C 125.758	280 W	5 W		
X: 15N 50.697	280 W	5 W		

● Repair Declaration

Equipment Clearance Form for Service, Repair, Disposal or Transfer



Use this form, whenever a probe or other unit situated in a magnet room, or analytical instruments, might be exposed to hazardous substances by customers, when it is to be returned to Bruker.

Whenever a customer returns a system or its components to Bruker, e.g. for repair, upgrade, loan returns, exchange, etc., **the customer accepts the following obligation:**

It is the explicit responsibility of the customer to make sure that the returned products are absolutely free of any hazardous substances. In case of omission to do so, Bruker will hold the customer liable for any resulting injuries and/or damages, caused to employees of Bruker and/or other persons exposed to the hazardous substances, decontamination, security measures, etc. The customer is further liable for all other direct and/or indirect damages caused to Bruker by the hazardous substances.

I ACCEPT THIS OBLIGATION

The repair declaration, completed and signed by the **safety representative**, has to be attached to the returned product. The declaration must be attached to the delivery note on the package exterior. Any returned product without a properly completed and duly signed declaration cannot be repaired. If we think that there is a risk of damage because of a contaminated returned product, we must dispose the hazardous material at the expense of the customer.

The safety & repair declaration form may be signed by a Bruker service engineer if the system was never operated by the customer (e.g. prior to completion of the installation).

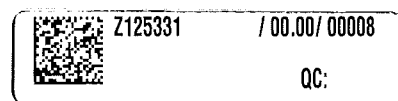
The customer/signatory confirms that the returned product is absolutely free of any hazardous substances (e.g. toxic, corrosive, explosive, biologically dangerous or radioactive).

PRODUCT PART NO.:		SERIAL NO.:	
FAULT DESCRIPTION (reason for return) :			
DATE FAILURE OCCURRED:		SYSTEM ORDER NO./ DISPATCH NO.:	
COMPANY/INSTITUTE:		SIGNATURE: DATE:	
NAME:			
MAILING ADDRESS:			
CITY/POSTAL CODE/COUNTRY:			
EMAIL:			

● **Shimming Information**
NMR Probe



Important Information to Probe



Installation Information

This probehead is equipped with a Z-Gradient type which may not yet be supported by TopShim. If the required gradient file is missing, TopShim gives the following error

FileOpen – failed to open file

/opt/topspin/conf/instr/topshim/gradients/grad<name>_1D.zfdf – No such file or directory

Please check that the required gradient file found in the CD delivered with the probehead has been copied in the following directory:

\$TOPSPINHOME/conf/instr/topshim/gradients