

Customer Certificate (Summary)



Part-Nr.: **Z824801** S/N **171** Probe: **PA BBO 400S1 BB-H-D-05 Z**

Nuc	Acceptance Testprocedures		Specification							
	Experiment	Conditions	Rated		Tested	Sample/Rated				
1H	<input type="checkbox"/> Lineshape Spinning	0.55% / 0.11%	<input type="checkbox"/>	<input type="checkbox"/>	Hz	<input type="text" value="ok"/>	<input type="text" value="ok"/>	Hz	<input type="text" value=""/>	%
	Spinning Sidebands		<input type="checkbox"/>	<input type="checkbox"/>	%	<input type="text" value="ok"/>	<input type="text" value=""/>	%	<input type="text" value=""/>	%
	<input type="checkbox"/> Lineshape Nonspinning	0.55% / 0.11%	<input type="checkbox"/>	<input type="checkbox"/>	Hz	<input type="text" value=""/>	<input type="text" value=""/>	Hz	<input type="text" value=""/>	%
	<input type="checkbox"/> Resolution (non- / spinning)	50%	<input type="checkbox"/>	<input type="checkbox"/>	Hz	<input type="text" value=""/>	<input type="text" value="ok"/>	Hz	<input type="text" value=""/>	%
	<input checked="" type="checkbox"/> Sensitivity (SINO) Spinning	Noise, 2ppm	<input type="text" value="220"/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	0.1% EB
		Noise, 200Hz	<input type="text" value=""/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	
	<input type="checkbox"/> 90-Degree Pulse	___ dB / Power	<input type="text" value=""/>	<input type="text" value=""/>	W	<input type="text" value="314"/>	<input type="text" value=""/>	W	<input type="text" value=""/>	
		90-Degree Pulse	<input type="text" value="15"/>	<input type="text" value=""/>	us	<input type="text" value="7.8"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	
	<input type="checkbox"/> Backgroundnoise Factor		<input type="text" value=""/>	<input type="text" value=""/>		<input type="text" value="ok"/>	<input type="text" value=""/>		<input type="text" value=""/>	0.1% EB
	<input type="checkbox"/> Watersuppression S/N	Gasflow	<input type="text" value=""/>	<input type="text" value=""/>	l/h	<input type="text" value=""/>	<input type="text" value=""/>	l/h	<input type="text" value=""/>	
	Nonspin	Noise / 1,5ppm	<input type="text" value=""/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	<input type="text" value=""/>	S/N		
	Lineshape	50% / 10% DSS	<input type="text" value=""/>	<input type="text" value=""/>	Hz	<input type="text" value=""/>	<input type="text" value=""/>	Hz		
	Splitting		<input type="text" value=""/>	<input type="text" value=""/>	%	<input type="text" value=""/>	<input type="text" value=""/>	%		
13C	<input checked="" type="checkbox"/> Lineshape Spinning	0.55% / 0.11%	<input type="text" value="2"/>	<input type="text" value="4"/>	Hz	<input type="text" value="ok"/>	<input type="text" value="ok"/>	Hz	<input type="text" value=""/>	ASTM
	Spinning Sidebands		<input type="text" value="1"/>	<input type="text" value=""/>	%	<input type="text" value="ok"/>	<input type="text" value=""/>	%	<input type="text" value=""/>	%
	Resolution (non- / spinning)	50%	<input type="text" value="0.2"/>	<input type="text" value=""/>	Hz	<input type="text" value="ok"/>	<input type="text" value=""/>	Hz	<input type="text" value=""/>	
	<input type="checkbox"/> Lineshape Nonspinning	0.55% / 0.11%	<input type="checkbox"/>	<input type="checkbox"/>	Hz	<input type="text" value=""/>	<input type="text" value=""/>	Hz	<input type="text" value=""/>	
	<input type="checkbox"/> 90-Degree Pulse 300/500W	___ dB / Power	<input type="text" value=""/>	<input type="text" value=""/>	W	<input type="text" value=""/>	<input type="text" value="121"/>	W	<input type="text" value=""/>	
		90-Degree Pulse	<input type="text" value="10"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	<input type="text" value="6.4"/>	us	<input type="text" value=""/>	
	<input type="checkbox"/> CPD - Parameters	Power	<input type="text" value=""/>	<input type="text" value=""/>	db	<input type="text" value="ok"/>	<input type="text" value=""/>	db	<input type="text" value=""/>	
			<input type="text" value=""/>	<input type="text" value=""/>	us	<input type="text" value="ok"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	
<input checked="" type="checkbox"/> Sensitivity (SINO) Spinning	Noise / 40ppm	<input type="text" value="160"/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	ASTM	
<input checked="" type="checkbox"/> Sensitivity (SINO), CPD Spin	Noise / 40ppm	<input type="text" value="120"/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	10% EB	
15N	<input type="checkbox"/> 90-Degree Pulse 300/500W	___ dB / Power	<input type="text" value=""/>	<input type="text" value=""/>	W	<input type="text" value=""/>	<input type="text" value="132"/>	W	<input type="text" value=""/>	
		90-Degree Pulse	<input type="text" value="15"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	<input type="text" value="11"/>	us	<input type="text" value=""/>	
	<input type="checkbox"/> CPD - Parameters	Power	<input type="text" value=""/>	<input type="text" value=""/>	db	<input type="text" value="ok"/>	<input type="text" value=""/>	db	<input type="text" value=""/>	
		90-Degree Pulse	<input type="text" value=""/>	<input type="text" value=""/>	us	<input type="text" value="ok"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	%
	<input checked="" type="checkbox"/> Sensitivity (SINO), CPD Spin	Noise / 2ppm	<input type="text" value="20"/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	90% FORM
31P	<input type="checkbox"/> 90-Degree Pulse	___ dB / Power	<input type="text" value=""/>	<input type="text" value=""/>	W	<input type="text" value="82"/>	<input type="text" value=""/>	W	<input type="text" value=""/>	
		90-Degree Pulse	<input type="text" value="15"/>	<input type="text" value=""/>	us	<input type="text" value="5.7"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	
	<input checked="" type="checkbox"/> Sensitivity (SINO) Spinning	Noise / 5ppm	<input type="text" value="135"/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	48.5mM TPP
19F	<input type="checkbox"/> 90-Degree Pulse	___ dB / Power	<input type="text" value=""/>	<input type="text" value=""/>	W	<input type="text" value="22.4"/>	<input type="text" value=""/>	W	<input type="text" value=""/>	
		90-Degree Pulse	<input type="text" value=""/>	<input type="text" value=""/>	us	<input type="text" value="12.3"/>	<input type="text" value=""/>	us	<input type="text" value=""/>	
	<input type="checkbox"/> Sensitivity (SINO)	Spinning 1ppm	<input type="text" value=""/>	<input type="text" value=""/>	S/N	<input type="text" value="ok"/>	<input type="text" value=""/>	S/N	<input type="text" value=""/>	0.05% TFT

Date : 14 / 01 / 05

Signature / Grammalogue : WEL

TEST-DATA



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

Probehead No.	Z824801 / 171	EC	1.0	MHz	400	SB	X	WB	
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Produktion	X
Reparatur	
Convert	

Sample Ø	1 mm		8 mm	
	2.5 mm		10 mm	
	3 mm		20 mm	
	5 mm	X	

Dual Flow Insert	
Probe-Body SB	
Probe-Body WB	

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

5320 = 13.99 3MHz

7999 = 164.785MHz

Nuc. / Freq. (MHz)	forw. Pulse	forw. CW
X: 31P 161.978	110 W	W
X: 13C 100.610	140 W	W
X: 15N 40.544	180 W	W
	W	W
	W	W
	W	W
19F: 376.436	40 W	5 W
1H: 400.130	40 W	5 W
Lock: 61.424	30 W	5 W

VSP400				
Tuning-Card		Z824801 / 171		
Nuc.	Freq.	Tuning	Matching	Att.dB
31P	161.978	799.0073	99.0319	
87Rb	130.928	799.0237	99.0223	
13C	100.61	797.0157	99.0059	
17O	54.247	787.0211	86.0262	
15N	40.544	773.0189	82.0134	
14N	28.904	743.0264	72.0094	
97Mo	26.618	734.0129	67.0269	
109Ag	18.614	649.0251	43.0124	

Date: Thursday, 18. November 2004

Signature: *UBR*