1H{15N-31P} 5 mm PFG AutoX Indirect Detection Probe, VT, 400 NB

Description: Probe of choice for automatable experiments where 1H sensitivity and indirect detect experiments with excellent RF homgeneity and/or salt tolerance are key. Capability for irradiation at frequencies within the range of 15N to 31P. Optimized for highest 1H sensitivity. Capable of automated probe tune and match when equipped with ProTune optional accessory. High performance actively shielded linear z-axis gradient produces rectangular gradient without ECC for best dephasing per unit time.

Part Number: 0199004066 Revision K

Specifications:

These specifications are valid only for a new 400-MR. Probe performance on older systems may be lower.

Sample Tube 0.1% Ethylbenzene

0.1% Ethylbenzene

Resolution and Lineshape:

¹ H	СНСІЗ		Spinning	Non-spinning
		50%	≤ 0.45 Hz	≤ 0.65 Hz
		.55%	≤ 5.0 Hz	≤ 8.0 Hz
		.11%	≤ 10.0 Hz	≤ 16.0 Hz
		Sidebands	≤ 1%(NT=4)	

Signal/Noise:

¹ H Sensitivity	≥	575:1
¹ H Sensitivity	≥	650:1

Pulse Performance:

Channel		90° Pulse Width	RF Home	RF Homogeneity		
¹ H	≤	8 µsec w/ 50W Amp	810°/90° ≥ 70%	450°/90° ≥ 80%		
¹³ C	≤	13 µsec w/ 300W Amp	720°/0° ≥ 70%	360°/0° ≥ 80%		
¹⁵ N	≤	28 µsec w/ 300W Amp	720°/0° ≥ 65%	$360^{\circ}/0^{\circ} \ge 70\%$		

Gradient Strength:

Maximum	Z-gradient strength) ≥	18 G/cm
	J J .		

Variable Temperature Range:

-80° C to +130° C

Sample Volume:

600 µL (recommended)

Notes:

Probe performance demonstrated during installation with standards in Wilmad 535-PP sample tube or equivalent.

Sample 0.1% Ethylbenzene 1% 13C-lodomethane 2% 15N-Benzamide

Wilmad 535-PP

Wilmad 545-PP

Gradient Recovery: ≤ 250 µsec @ 10 G/cm