

Duke Spectrometer References (to DSS)

Indirect reference ratio (IUPAC):

1H	(DSS)	1.000000000	a	1, 2
2H	(DSS)	0.153506088	a	2, 5
13C-1H	(DSS)	0.251449530	a	1, 2
15N-1H	(DSS)	0.101329118	b	1, 2
31P-1H	(DSS)	0.404808636	h	2, 6

Duke 700 (By Qinglin Wu, June 02, 2013)

Duke 700 with cryoprobe @ 15C

1H absolute frequency for 0ppm: 700.019871 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0196676 MHz

15N absolute frequency for 0ppm: 70.93239611 MHz

Duke 700 with cryoprobe @ 20C

1H absolute frequency for 0ppm: 700.019909 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0196771 MHz

15N absolute frequency for 0ppm: 70.93239996 MHz

Duke 700 with cryoprobe @ 25C

1H absolute frequency for 0ppm: 700.019946 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0196864 MHz

15N absolute frequency for 0ppm: 70.93240371 MHz

Duke 700 with cryoprobe @ 30C

1H absolute frequency for 0ppm: 700.019982 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0196955 MHz

15N absolute frequency for 0ppm: 70.93240736 MHz

Duke 700 with cryoprobe @ 35C

1H absolute frequency for 0ppm: 700.020018 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0197045 MHz

15N absolute frequency for 0ppm: 70.93241101 MHz

Duke 700 with cryoprobe @ 37C

1H absolute frequency for 0ppm: 700.020032 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.019708 MHz

15N absolute frequency for 0ppm: 70.93241242 MHz

Duke 700 with cryoprobe @ 40C

1H absolute frequency for 0ppm: 700.020053 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0197133 MHz

15N absolute frequency for 0ppm: 70.93241455 MHz

Duke 700 with cryoprobe @ 45C

1H absolute frequency for 0ppm: 700.020087 MHz

Indirect reference for 13C and 15N

13C absolute frequency for 0ppm: 176.0197219 MHz

15N absolute frequency for 0ppm: 70.932418 MHz

