$E_u$ 

488.2179

400.3188

323.9327

484.8088

484.8108

400.3188

306.905

290.8558

222.2164

748.4583

40.4354

171.7552

245.1142

40.436

Intensity

3.3687

2.7454

0.6648

2.9014

1.7567

3.3371

8.053

-0.3128

-14.343

-13.5255

-13.5255

-15.7359

-16.9879

-13.0386

Velocity

7.3909

7.0118

8.7744

6.3529

7.9995

6.9874

13.4069

12.6003

9.4492

10.0258

6.1625

7.0159

6.8598

7.5137

 $V_{lsr}$ 

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

8.0

Peak / rms

3.1028

2.5287

1.7433

2.6725

4.6065

3.0738

21.1174

-0.8202

-13.211

-12.458

-12.458

-14.494

-15.6472

-12.0096

Frequency

336.43822

336.44841

336.45107

336.45452

336.46561

336.46699

336.52008

336.62937

336.63657

336.64028

336.65152

336.65645

336.65982

336.66958

Molecule

CNCHO

CNCHO

 $HC_3N$ 

CCCO

 $^{13}CCH$ 

 $^{13}CCH$ 

 $SO_2v =_0$ 

 $CH_3OHvt =_0$ 

 $CH_3^{13}CH_2CN$ 

 $CH_3OCHOv = 0$ 

 $CH_3OCHOv = 0$ 

 $(CH_3)_2COv =_0$ 

 $(CH_3)_2COv =_0$ 

 $H_2NCH_2CN$ 

Name

Methanol

Cyanoformaldehyde

Ethyl Cyanide

Methyl Formate

Methyl Formate

Cyanoacetylene

Aminoacetonitrile

Ethynyl

Acetone

Ethynyl

Acetone

Sulfur dioxide

Cyanoformaldehyde

3-Oxo-1,2-Propadienylidene

Transition

147.8 - 156.9 + +

 $35_{13,23} - 35_{12,24}A$ 

 $35_{13,22} - 35_{12,23}E$ 

 $23_{13.10} - 22_{14.9}EA$ 

 $37_{19,18} - 36_{19,17}$ 

 $20_{13.8} - 19_{12.7}AA$ 

 $16_{7.9} - 17_{6.12}$ 

N = 4 - 3, J = 7/2 - 5/2

N = 4 - 3, J = 7/2 - 5/2

 $35_{6,30} - 36_{5,31}$ 

 $34_{8,26} - 34_{7,27}$ 

 $35_{6,29} - 36_{5,32}$ 

J = 37 - 36

35 - 34