

MASTER

Lines in the Spectrum of

 ${}^6\text{LiH}$ (2985-5158 Å)*

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The emission spectra of the $A^1\Sigma^+ - X^1\Sigma^+$ bands of ${}^6\text{LiH}$ were photographed in the 2985 - 5158 $\text{\AA}$ region with a 3.4 meter Ebert Spectrograph of theoretical resolution of about 0.07 cm^{-1} . High purity ${}^6\text{LiH}$ crystals were obtained from Oak Ridge National Laboratory. The atomic percent of ${}^6\text{Li}$ in ${}^6\text{LiH}$ was 95.58%. The discharge source was a demountable stainless steel hollow cathode lamp. A detailed description of the discharge tube is given in [1]. The lithium hydride crystals were packed into the cathode. Pressure in the discharge tube was about 10 to 20 torr of H_2 . The discharge was run at about 600 volts and 1.25 - 1.75 amperes. Acceptable spectra were obtained with exposure time of 6 hours. A Westinghouse iron hollow cathode was used to produce the iron spectrum for calibration. The plates were measured on the Gaertner photoplate comparator with an encoder system and on-line computer service at Argonne National Laboratory. I would like to acknowledge the help of Dr. Fred Tomkins of Argonne National Laboratory in using the comparator.

The measured lines in the spectra of ${}^6\text{LiH}$ are given in this report (C00-2326-17). Similar spectra for ${}^6\text{LiD}$ and ${}^7\text{LiH}$ are given in companion reports (C00-2326-18) and (C00-2326-19), respectively. The relative intensities of the lines are applicable only to short regions and do not extend over the whole spectrum. The assigned lines along with those reported in Jorgensen's thesis [2] are listed in report (C00-2326-20). These spectra are now being compared with spectra obtained in this laboratory from collisions of fast

(~ 5 eV) H atoms with a Li_2 crossed beam.

References

1. K. C. Li, Ph.D. Thesis, University of Iowa (1976).
2. T. Jorgensen Jr., Ph.D. Thesis, Harvard University (1935).

Lines in the Spectra of ${}^6\text{LiH}$
(2985 - 5158 Å)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT
				(v', v'', Branch J)
33485.770	2985.4721	12.	1.462	
33479.303	2986.0488	12.	0.877	
33473.848	2986.5354	14.	1.022	
33385.173	2994.4684	13.	0.726	
33361.360	2996.6059	12.	0.725	
33360.268	2996.7040	12.	0.580	
33346.119	2997.9756	12.	1.447	
33344.463	2998.1245	13.	0.724	
33342.873	2998.2674	12.	0.724	
33340.834	2998.4508	13.	0.868	
33338.738	2998.6393	13.	1.737	
33336.464	2998.8439	13.	0.579	
33335.330	2998.9459	12.	0.579	
33333.881	2999.0763	13.	0.863	
33332.543	2999.1966	12.	0.723	
33330.360	2999.3931	12.	1.735	
33328.503	2999.5602	13.	0.723	
33325.997	2999.7858	12.	0.723	
33323.733	2999.9896	12.	1.734	
33321.994	3000.1462	12.	0.723	
33319.785	3000.3451	12.	0.867	
33315.658	3000.7168	12.	1.011	
33313.936	3000.8719	12.	1.155	
33312.580	3000.9940	13.	0.722	
33306.815	3001.5135	12.	0.722	
33304.459	3001.7258	12.	1.155	
33300.148	3002.1145	12.	1.154	
33297.290	3002.3722	12.	1.443	
33295.424	3002.5404	13.	0.865	
33293.614	3002.7037	12.	1.154	
33290.876	3002.9507	13.	0.865	
33289.265	3003.0960	12.	1.009	
33287.873	3003.2215	12.	0.577	
33285.630	3003.4229	13.	0.721	
33282.843	3003.6754	13.	1.297	
33281.255	3003.8188	12.	0.576	
33279.517	3003.9757	13.	0.720	
33277.561	3004.1522	12.	0.576	
33276.154	3004.2792	12.	0.720	
33274.245	3004.4516	12.	1.152	
33272.277	3004.6293	12.	1.584	
33270.172	3004.8194	12.	1.008	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
33267.106	3005.0964	13.	0.720	
33264.786	3005.3060	12.	1.583	
33263.306	3005.4397	12.	0.576	
33261.291	3005.6217	14.	1.007	
33259.282	3005.8033	12.	1.007	
33257.869	3005.9310	12.	0.575	
33256.074	3006.0933	12.	1.295	
33232.524	3008.2237	12.	1.436	
33226.251	3008.7916	12.	0.718	
33221.966	3009.1797	16.	0.718	
33216.964	3009.6328	12.	1.291	
33213.721	3009.9267	12.	2.008	
33209.167	3010.3395	12.	0.573	
33206.535	3010.5781	12.	1.003	
33202.897	3010.9080	12.	0.573	
33196.445	3011.4932	12.	1.432	
33194.716	3011.6501	12.	0.573	
33193.231	3011.7848	12.	0.716	
33189.788	3012.0973	12.	2.005	
33185.123	3012.5207	13.	0.716	
33176.123	3013.3380	12.	1.287	
33171.845	3013.7266	12.	1.144	
33169.725	3013.9192	12.	0.715	
33160.218	3014.7833	12.	1.000	
33158.259	3014.9615	14.	0.357	
33129.087	3017.6164	15.	0.355	
33121.514	3018.3064	12.	0.397	
33119.179	3018.5192	12.	0.355	
33109.070	3019.4409	12.	0.397	
33095.556	3020.6739	22.	0.396	
33090.731	3021.1144	15.	0.395	
33085.445	3021.5971	17.	0.353	
33079.926	3022.1012	12.	0.710	
33075.654	3022.4916	12.	0.394	
33074.281	3022.6170	12.	0.710	
33068.411	3023.1536	12.	0.568	
33066.386	3023.3367	12.	0.568	
33065.499	3023.4198	12.	0.568	
33063.750	3023.5798	12.	1.419	
33061.756	3023.7621	12.	0.393	
33056.515	3024.2416	12.	1.277	
33054.889	3024.3903	13.	0.851	
33050.307	3024.8096	12.	1.276	
33046.654	3025.1440	12.	0.392	
33044.894	3025.3051	12.	0.709	
33043.536	3025.4294	12.	0.392	
33038.573	3025.8840	12.	0.708	
33037.236	3026.0065	12.	0.708	
33032.070	3026.4797	13.	0.708	
33024.944	3027.1327	12.	1.415	
33020.310	3027.5576	12.	0.566	
33015.570	3027.9923	12.	0.566	
33014.484	3028.0919	12.	0.707	
33003.683	3029.0829	12.	1.272	
33000.039	3029.4175	12.	0.565	
32998.835	3029.5280	12.	0.565	
32990.559	3030.2880	14.	0.706	
32988.447	3030.4820	12.	1.412	
32948.514	3034.1551	21.	0.704	
32929.042	3035.9494	12.	0.703	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32925.708	3035.2557	12.	0.703	
32913.234	3037.4075	12.	0.702	
32910.139	3037.6932	13.	0.842	
32908.975	3037.8007	12.	0.562	
32880.177	3040.4614	12.	0.560	
32876.378	3040.8128	12.	1.821	
32859.445	3042.3798	12.	0.560	
32846.506	3043.5783	12.	1.577	
32840.585	3044.1270	12.	0.978	
32839.313	3044.2450	12.	0.559	
32835.485	3044.5999	15.	0.838	
32826.211	3045.4601	12.	0.558	
32824.933	3045.5787	12.	0.698	
32823.660	3045.6967	13.	1.116	
32815.198	3046.4822	12.	1.534	
32807.911	3047.1589	12.	3.067	
32802.582	3047.6540	13.	1.115	
32798.480	3048.0351	12.	0.697	
32794.929	3048.3652	12.	0.557	
32786.301	3049.1674	12.	0.696	
32768.228	3050.8492	13.	0.834	
32755.281	3052.0551	12.	0.833	
32753.484	3052.2226	12.	0.694	
32747.006	3052.8265	12.	0.555	
32743.771	3053.1280	12.	0.694	
32735.560	3053.8939	12.	1.387	
32733.986	3054.0408	12.	0.693	
32730.275	3054.3870	13.	0.970	
32714.868	3055.8256	12.	0.692	
32704.814	3056.7650	12.	0.692	
32702.759	3056.9571	12.	0.553	
32697.181	3057.4786	13.	0.830	
32694.539	3057.7257	12.	1.793	
32691.736	3057.9879	12.	0.553	
32690.306	3058.1216	12.	1.244	
32679.684	3059.1157	12.	0.691	
32647.155	3062.1638	12.	0.865	
32643.285	3062.5269	12.	0.827	
32641.707	3062.6749	12.	0.689	
32631.902	3063.5953	17.	0.825	
32630.153	3063.7595	29.	0.826	
32627.829	3063.9776	12.	0.826	
32624.991	3064.2442	22.	0.963	
32622.676	3064.4617	12.	1.926	
32617.118	3064.9838	18.	0.825	
32615.560	3065.1303	16.	0.688	
32606.188	3066.0113	17.	0.687	
32604.700	3066.1512	12.	0.687	
32602.626	3066.3463	14.	0.687	
32592.786	3067.2721	17.	0.824	
32591.499	3067.3233	13.	0.549	
32588.348	3067.6898	16.	0.686	
32587.068	3067.8104	16.	0.686	
32585.455	3067.9623	18.	0.686	
32581.749	3068.3112	17.	0.823	
32578.345	3068.6318	14.	0.549	
32577.289	3068.7313	15.	0.549	
32576.222	3068.8318	13.	0.686	
32572.230	3069.2079	18.	0.823	
32566.932	3069.7073	14.	0.822	

(v', v'', Branch J)

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32380.469	3087.3849	43.	0.794
32372.388	3088.1556	12.	0.661
32367.149	3088.6555	12.	0.793
32365.515	3088.8114	12.	0.529
32364.577	3088.9010	13.	0.529
32363.056	3089.0461	13.	1.189
32360.871	3089.2547	16.	0.661
32358.801	3089.4524	13.	0.661
32356.801	3089.6433	17.	0.660
32355.437	3089.7735	61.	0.660
32354.081	3089.9030	50.	0.792
32352.207	3090.0821	13.	0.924
32348.813	3090.4062	35.	0.660
32347.548	3090.5271	16.	0.660
32343.407	3090.9228	13.	1.188
32340.128	3091.2363	29.	0.792
32338.377	3091.4036	39.	0.660
32332.459	3091.9695	12.	0.527
32329.018	3092.2986	12.	0.791
32327.545	3092.4395	48.	0.791
32325.700	3092.6160	13.	0.659
32324.827	3092.6995	13.	0.527
32323.448	3092.8315	42.	0.659
32319.156	3093.2423	12.	0.659
32316.552	3093.4915	12.	0.659
32315.116	3093.6290	13.	1.054
32313.702	3093.7643	15.	0.658
32312.065	3093.9210	12.	0.527
32310.792	3094.0430	12.	0.658
32309.409	3094.1754	12.	0.527
32306.371	3094.4664	13.	1.448
32304.328	3094.6621	42.	0.790
32302.808	3094.8077	12.	0.658
32298.731	3095.1984	12.	0.526
32296.796	3095.3839	44.	0.789
32294.442	3095.6095	13.	1.183
32292.423	3095.8031	12.	0.526
32291.132	3095.9268	12.	0.920
32288.639	3096.1658	30.	0.657
32286.301	3096.3901	22.	0.789
32284.521	3096.5607	12.	0.657
32282.919	3096.7144	13.	1.183

ASSIGNMENT
(v', v'', Branch J)

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32281.269	3096.8727	44.	0.788
32278.602	3097.1286	12.	0.525
32277.450	3097.2392	12.	0.657
32274.849	3097.4888	12.	0.919
32271.731	3097.7881	12.	1.313
32269.770	3097.9763	12.	1.575
32265.284	3098.4071	12.	1.181
32262.969	3098.6294	42.	0.787
32261.129	3098.8061	12.	1.049
32258.946	3099.0158	12.	0.525
32257.850	3099.1211	12.	0.656
32256.586	3099.2426	13.	0.656
32254.359	3099.4537	43.	0.787
32252.655	3099.6203	24.	1.049
32248.785	3099.9923	12.	0.786
32246.024	3100.2577	12.	0.524
32242.531	3100.5937	12.	0.655
32240.792	3100.7609	12.	1.441
32237.237	3101.1028	12.	1.179
32235.493	3101.2706	35.	0.786
32232.146	3101.5927	12.	0.785
32228.664	3101.9278	13.	0.654
32226.020	3102.1823	37.	0.785
32223.768	3102.3991	40.	0.654
32217.441	3103.0084	12.	0.654
32214.476	3103.2940	14.	0.523
32213.539	3103.3843	25.	0.784
32202.938	3104.4059	12.	0.784
32196.419	3105.0345	12.	0.653
32189.445	3105.7073	33.	0.783
32185.794	3106.0596	34.	0.652
32180.341	3106.5859	33.	0.782
32171.042	3107.4839	14.	0.521
32169.881	3107.5961	26.	0.652
32167.890	3107.7884	12.	1.303
32153.779	3109.1524	12.	1.041
32151.502	3109.3726	30.	0.651
32146.739	3109.8333	12.	0.650
32142.297	3110.2631	28.	0.650
32135.831	3110.8889	12.	1.300
32123.140	3112.1179	40.	0.649
32122.006	3112.2278	28.	0.649
32109.864	3113.4048	27.	0.778
32101.765	3114.1902	12.	0.778
32095.350	3114.6127	24.	0.778
32093.505	3114.9918	13.	0.648
32084.193	3115.8959	12.	1.165
32071.901	3117.0902	13.	0.518
32070.464	3117.2299	28.	0.776
32064.608	3117.7992	24.	0.776
32063.250	3117.9312	32.	0.646
32044.972	3119.7097	22.	0.646
32041.116	3120.0851	12.	0.645
32024.695	3121.6851	12.	1.031
32023.402	3121.8111	12.	0.645
32022.219	3121.9265	12.	0.516
32018.903	3122.2498	12.	0.644
32016.964	3122.4389	13.	0.773
32015.372	3122.5942	42.	0.773
32011.529	3122.9691	12.	1.030

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32001.101	3123.9868	31.	0.772	
31991.039	3124.9693	16.	0.772	
31976.865	3126.3546	12.	0.771	
31973.780	3126.5563	12.	1.285	
31969.923	3127.0334	12.	1.413	
31962.833	3127.7272	16.	0.542	
31958.928	3128.1094	12.	0.542	
31956.737	3128.3238	29.	0.770	
31954.185	3128.5737	13.	0.898	
31951.720	3128.8150	12.	0.541	
31946.389	3129.3372	12.	0.769	
31943.669	3129.6037	12.	1.538	
31942.075	3129.7598	12.	0.541	
31937.818	3130.1770	12.	0.641	
31936.408	3130.3152	29.	0.769	
31933.479	3130.6023	16.	0.768	
31925.325	3131.4019	12.	0.512	
31919.942	3131.9301	12.	0.512	
31913.043	3132.6071	12.	1.407	
31906.340	3133.2653	15.	0.767	
31897.133	3134.1697	13.	0.894	
31895.013	3134.3780	26.	0.766	
31892.639	3134.6114	12.	0.638	
31889.857	3134.8849	12.	0.638	
31878.280	3136.0233	12.	0.638	
31877.049	3136.1444	12.	0.510	
31876.167	3136.2312	12.	0.510	
31872.081	3136.6333	15.	0.765	
31869.075	3136.9292	26.	0.765	
31860.632	3137.7605	12.	0.764	
31858.566	3137.9640	13.	1.528	
31846.016	3139.2006	14.	0.636	
31839.652	3139.8282	13.	0.763	
31832.517	3140.5320	12.	1.017	
31830.076	3140.7728	23.	0.763	
31818.223	3141.9428	13.	0.762	
31811.973	3142.5601	12.	0.762	
31810.275	3142.7279	12.	0.635	
31807.061	3143.0455	14.	0.888	
31805.216	3143.2278	12.	0.507	
31799.108	3143.8316	22.	0.761	
31794.075	3144.3293	13.	0.887	
31789.383	3144.7934	14.	0.760	
31786.655	3145.0633	12.	0.633	
31781.621	3145.5615	14.	0.760	
31767.232	3146.9863	13.	0.759	
31763.919	3147.3146	12.	0.632	
31762.155	3147.4894	22.	0.759	
31756.270	3148.0726	12.	1.011	
31752.393	3148.4570	13.	0.632	
31737.698	3148.9149	14.	1.262	
31735.912	3150.0921	13.	0.757	
31734.468	3150.2355	12.	0.631	
31729.256	3150.7530	12.	1.766	
31726.355	3151.0411	17.	0.757	
31721.928	3151.4808	12.	0.630	
31720.812	3151.5918	12.	0.630	
31715.055	3152.1638	13.	0.756	
31713.392	3152.3291	14.	0.756	
31711.610	3152.5063	12.	1.008	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
31704.243	3153.2388	13.	0.630
31693.465	3154.2112	12.	0.503
31691.144	3154.5422	17.	0.629
31689.816	3154.6744	13.	0.755
31667.753	3156.8724	13.	0.753
31664.980	3157.1488	14.	0.753
31660.936	3157.5521	13.	0.753
31658.973	3157.7480	12.	0.878
31650.972	3158.5462	17.	0.627
31641.012	3159.5405	13.	0.877
31635.818	3160.0593	12.	1.127
31632.961	3160.3447	12.	0.626
31631.620	3160.4787	12.	0.751
31629.686	3160.6720	12.	0.626
31627.737	3160.8667	14.	1.002
31625.549	3161.0854	12.	1.627
31622.912	3161.3490	12.	0.626
31621.125	3161.5276	12.	0.876
31619.560	3161.6841	12.	0.376
31618.313	3161.8088	12.	0.500
31617.133	3161.9269	16.	0.625
31613.110	3162.3292	12.	0.500
31611.687	3162.4716	12.	0.750
31610.385	3162.6018	12.	0.625
31609.098	3162.7307	12.	0.625
31607.939	3162.8417	13.	0.625
31606.922	3162.9484	12.	0.500
31605.009	3163.1398	12.	0.500
31603.937	3163.2471	13.	0.625
31602.698	3163.3712	12.	0.500
31601.484	3163.4927	12.	0.625
31598.874	3163.7540	12.	0.625
31597.692	3163.8723	12.	0.625
31596.037	3164.0381	12.	0.999
31593.630	3164.2791	12.	0.624
31592.261	3164.4163	13.	0.874
31590.566	3164.5861	13.	0.624
31589.510	3164.6918	13.	0.749
31587.947	3164.8485	13.	0.874
31585.925	3165.0511	12.	0.499
31584.707	3165.1731	13.	0.624
31583.580	3165.2861	12.	0.624
31582.534	3165.3909	12.	0.499
31579.355	3165.7096	12.	0.499
31578.301	3165.8152	12.	0.624
31576.943	3165.9514	12.	0.873
31575.612	3166.0848	12.	0.873
31572.777	3166.3691	16.	0.748
31571.172	3166.5301	12.	0.499
31564.490	3167.2005	13.	0.623
31562.019	3167.4485	12.	0.997
31560.136	3167.6374	12.	1.495
31555.880	3168.0646	12.	0.623
31549.156	3168.7399	12.	1.493
31546.874	3168.9691	12.	1.369
31544.252	3169.2326	12.	1.120
31540.071	3169.6527	14.	0.746
31537.713	3169.8897	12.	0.497
31519.395	3171.7320	12.	0.621
31506.552	3173.0249	12.	0.620

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
31503.140	3173.3685	12.	0.496	
31499.010	3173.7847	12.	0.496	
31491.799	3174.5115	14.	0.620	
31491.563	3174.5352	14.	0.862	
31489.108	3174.7828	13.	0.718	
31486.033	3175.0928	23.	1.005	
31483.413	3175.3571	13.	1.005	
31474.119	3176.2948	12.	1.291	
31465.080	3177.2072	12.	0.717	
31459.931	3177.7273	14.	1.003	
31455.450	3178.1799	13.	0.716	
31454.223	3178.3039	12.	0.573	
31451.703	3178.5586	12.	1.003	
31444.455	3179.2913	12.	0.716	
31435.868	3180.1598	12.	0.715	
31434.619	3180.2862	12.	0.572	
31432.513	3180.4992	13.	0.715	
31427.097	3181.0474	12.	0.572	
31425.680	3181.1908	12.	0.858	
31423.548	3181.4067	13.	1.001	
31420.658	3181.6992	13.	0.715	
31419.153	3181.8517	12.	0.572	
31416.589	3182.1114	12.	1.429	
31413.876	3182.3862	13.	0.857	
31407.771	3183.0048	14.	0.714	
31405.855	3183.1990	12.	0.714	
31402.617	3183.5272	12.	0.571	
31401.520	3183.6385	12.	0.571	
31400.073	3183.7852	12.	0.713	
31398.355	3183.9594	13.	1.284	
31396.747	3184.1225	12.	0.713	
31395.019	3184.2978	12.	0.571	
31392.796	3184.5232	12.	1.284	
31390.044	3184.8024	12.	0.713	
31387.825	3185.0276	12.	0.570	
31386.101	3185.2026	12.	1.140	
31384.542	3185.3608	12.	0.713	
31381.842	3185.6348	12.	1.568	
31379.888	3185.8332	12.	0.570	
31376.636	3186.1634	15.	1.424	
31374.840	3186.3458	13.	0.570	
31373.825	3186.4489	13.	0.712	
31370.436	3186.7871	13.	0.712	
31369.323	3186.9062	13.	0.569	
31366.772	3187.1654	12.	1.281	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
31365.528	3187.2912	12.	0.569
31364.265	3187.4202	12.	0.854
31362.958	3187.5530	12.	0.569
31361.446	3187.7067	13.	0.711
31359.858	3187.8681	13.	0.711
31357.669	3188.0906	14.	0.854
31354.865	3188.3757	13.	1.564
31351.971	3188.6701	13.	1.138
31350.211	3188.8492	13.	0.853
31347.863	3189.0880	13.	0.995
31345.456	3189.3329	13.	0.853
31343.300	3189.5523	13.	0.853
31341.750	3189.7101	13.	0.853
31339.024	3189.9875	13.	0.710
31336.151	3190.2800	13.	1.420
31334.087	3190.4902	13.	1.278
31330.612	3190.8439	14.	0.852
31329.113	3190.9967	13.	0.710
31327.324	3191.1789	13.	0.710
31325.897	3191.3243	13.	1.135
31322.592	3191.6610	13.	0.568
31320.708	3191.8530	15.	1.419
31317.925	3192.1366	13.	1.277
31315.384	3192.3957	13.	0.709
31313.737	3192.5636	12.	0.709
31311.628	3192.7786	12.	1.276
31310.081	3192.9364	12.	0.709
31308.590	3193.0884	12.	0.850
31305.195	3193.4348	12.	0.709
31303.261	3193.5708	12.	0.567
31302.552	3193.7044	12.	0.567
31300.320	3193.9312	12.	0.708
31298.294	3194.1389	12.	0.850
31296.008	3194.3722	12.	0.850
31290.944	3194.8292	14.	0.708
31289.068	3195.0808	13.	0.708
31287.603	3195.2304	12.	0.566
31286.087	3195.3852	13.	1.274
31283.923	3195.6063	12.	0.566
31282.207	3195.7815	15.	0.849
31278.634	3196.1466	12.	1.414
31276.061	3196.4096	13.	0.848
31272.432	3196.7295	12.	0.707
31270.503	3196.9777	12.	0.848
31269.100	3197.1212	12.	0.848
31267.504	3197.2844	12.	0.565
31265.313	3197.5065	13.	0.706
31263.461	3197.6978	13.	1.637
31261.413	3197.9074	12.	0.848
31259.800	3198.0724	12.	0.847
31257.868	3198.2700	13.	1.271
31255.223	3198.5407	12.	1.694
31251.361	3198.9360	13.	0.706
31249.274	3199.1497	12.	0.565
31248.160	3199.2637	12.	0.564
31245.205	3199.5663	12.	1.270
31240.694	3200.0283	12.	1.834
31236.075	3200.5015	13.	0.564
31235.072	3200.6044	13.	0.564
31231.211	3201.0000	13.	0.705

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
31225.317	3201.5542	12.	0.564	
31224.170	3201.7212	12.	0.563	
31222.816	3201.8607	12.	0.704	
31221.551	3201.9904	12.	0.704	
31219.937	3202.1560	12.	1.127	
31217.511	3202.4048	13.	0.345	
31215.638	3202.5970	12.	0.563	
31214.249	3202.7325	13.	0.845	
31212.978	3202.8699	13.	0.563	
31211.532	3203.0153	12.	0.985	
31210.075	3203.1678	12.	0.563	
31208.803	3203.2984	12.	0.704	
31205.069	3203.6817	12.	1.407	
31203.201	3203.8735	13.	0.844	
31201.895	3204.0077	14.	0.563	
31200.868	3204.1131	12.	0.703	
31194.077	3204.8107	12.	0.703	
31192.661	3204.9562	12.	0.703	
31191.459	3205.0796	12.	0.562	
31190.004	3205.2292	12.	1.265	
31187.995	3205.4357	12.	0.983	
31183.502	3205.8975	13.	0.843	15,OR8
31181.400	3206.1137	12.	1.404	15,OP7
31179.708	3206.2876	12.	0.842	
31176.959	3206.5704	12.	0.702	
31175.712	3206.6986	13.	0.702	
31172.989	3206.9787	12.	0.982	
31171.051	3207.1772	12.	1.824	
31167.380	3207.5559	12.	0.561	
31165.561	3207.7431	12.	0.561	
31164.104	3207.8931	12.	1.262	
31162.038	3208.1058	12.	1.262	
31160.269	3208.2879	12.	0.981	
31154.590	3208.8728	12.	1.402	
31151.045	3209.2350	13.	1.121	
31148.308	3209.5199	13.	1.401	
31138.527	3210.5282	12.	0.560	
31136.416	3210.7459	12.	0.700	
31129.224	3211.4876	12.	0.839	
31122.637	3212.1673	12.	0.979	
31120.658	3212.3716	12.	0.699	
31118.422	3212.6024	12.	0.699	
31116.895	3212.7601	13.	0.699	14,OR1
31114.869	3212.9693	13.	1.258	
31109.552	3213.5185	13.	0.698	
31106.935	3213.7889	12.	1.257	
31103.641	3214.1292	12.	0.838	
31101.398	3214.3610	13.	0.698	
31099.966	3214.5090	13.	0.838	15,OR9
31098.077	3214.7043	13.	0.698	15,OP8
31096.416	3214.8760	13.	1.256	
31094.613	3215.0625	12.	0.558	
31093.554	3215.1720	12.	0.558	
31091.921	3215.3408	13.	1.395	
31089.041	3215.6386	13.	0.837	
31087.658	3215.7817	13.	0.558	
31085.515	3216.0034	13.	0.697	
31083.663	3216.1951	14.	0.837	
31082.250	3216.3412	13.	0.697	
31080.303	3216.5427	14.	0.836	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
31078.159	3216.7647	14.	1.533
31076.558	3216.9821	14.	0.375
31074.433	3217.1504	14.	0.557
31072.753	3217.3243	14.	1.393
31070.767	3217.5350	15.	1.293
31069.256	3217.6917	15.	0.557
31067.857	3217.8314	16.	0.557
31066.671	3217.9543	16.	0.557
31065.311	3218.0951	21.	0.835
31063.760	3218.2558	21.	0.696
31061.520	3218.4879	21.	0.696
31060.115	3218.6335	21.	0.557
31058.529	3218.7979	23.	0.835
31057.374	3218.9176	24.	0.557
31055.523	3219.1094	24.	0.557
31054.389	3219.2270	26.	0.835
31050.546	3219.6255	30.	0.695
31048.246	3219.8640	29.	2.225
31045.697	3220.1283	34.	1.251
31044.195	3220.2841	34.	0.556
31042.629	3220.4466	36.	0.695
31041.006	3220.6149	40.	0.834
31038.474	3220.8777	39.	1.568
31035.888	3221.1461	42.	0.695
31034.455	3221.2948	42.	0.695
31032.748	3221.4720	44.	1.389
31030.844	3221.6697	44.	0.372
31028.648	3221.8977	52.	1.111
31026.663	3222.1038	81.	1.250
31022.800	3222.5051	43.	2.637
31020.223	3222.7728	41.	0.333
31018.763	3222.9245	41.	0.694
31017.401	3223.0660	39.	0.555
31016.025	3223.2090	39.	0.555
31014.324	3223.3858	40.	1.665
31011.157	3223.7119	37.	1.525
31008.609	3223.9799	32.	0.555
31006.884	3224.1593	35.	0.693
31003.558	3224.5051	31.	3.465
31000.356	3224.8383	30.	1.109
30998.833	3224.9966	26.	0.554
30997.214	3225.1651	27.	0.970
30995.383	3225.3557	25.	1.385
30993.555	3225.5459	24.	0.831
30990.884	3225.8239	23.	1.800
30988.657	3226.0557	21.	1.523
30986.636	3226.2661	21.	1.246
30984.133	3226.5268	22.	1.384
30982.392	3226.7081	14.	0.554
30981.261	3226.8259	14.	0.692
30979.281	3227.0321	14.	0.553
30976.467	3227.3253	14.	0.553
30975.202	3227.4571	13.	0.830
30973.192	3227.6666	13.	1.245
30970.245	3227.9737	28.	0.830
30968.633	3228.1418	52.	0.968
30965.999	3228.4163	12.	0.691
30964.403	3228.5827	14.	0.829
30962.539	3228.7772	12.	1.105
30957.512	3229.3015	12.	3.453

14,OR4

14,OP3

15,OR10

14,OR5

14,OP4

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
30953.153	3229.7562	12.	0.552	
30946.570	3230.4433	13.	1.104	14,OR6
30943.362	3230.7782	22.	0.966	14,OP5
30940.834	3231.0370	12.	0.828	
30939.399	3231.1920	12.	0.552	
30936.709	3231.4730	13.	0.965	
30934.833	3231.6689	13.	0.827	
30932.303	3231.9333	23.	0.965	
30930.577	3232.1137	24.	0.965	
30928.746	3232.3050	31.	0.827	
30924.692	3232.7288	10790.	4.960	
30920.778	3233.1380	31.	0.689	
30919.097	3233.3138	25.	0.826	
30917.245	3233.5075	21.	1.377	
30915.228	3233.7184	21.	1.102	
30912.941	3233.9577	14.	1.377	
30910.991	3234.1617	13.	0.688	
30908.760	3234.3952	13.	0.688	
30906.759	3234.6045	13.	0.550	
30905.661	3234.7195	12.	0.550	
30904.241	3234.8581	13.	0.825	15,OR11
30902.345	3235.0666	13.	0.825	15,OP10
30900.771	3235.2313	14.	0.688	
30897.692	3235.5538	12.	0.688	
30896.131	3235.7172	13.	0.825	
30890.516	3236.3055	12.	1.237	
30885.454	3236.8359	25.	0.962	
30883.336	3237.0579	13.	1.099	14,OR7
30880.537	3237.3514	12.	0.549	
30879.132	3237.4986	14.	0.824	14,OP6
30873.795	3238.0583	12.	0.824	
30860.068	3239.4986	12.	0.960	
30850.940	3240.4572	12.	0.685	
30843.872	3241.1998	12.	0.685	
30842.665	3241.3266	12.	0.822	
30841.131	3241.4878	13.	0.685	
30837.498	3241.8697	12.	1.232	
30818.889	3243.8273	13.	0.684	
30817.529	3243.9705	12.	0.683	
30814.625	3244.2762	13.	0.820	
30813.462	3244.3986	13.	0.683	
30811.867	3244.5666	12.	0.683	
30810.426	3244.7183	14.	0.820	14,OR8
30805.797	3245.2060	14.	0.956	14,OP7
30797.356	3246.0954	12.	1.638	
30792.387	3246.6193	14.	0.955	15,OR12
30790.656	3246.8018	13.	0.682	15,OP11
30789.081	3246.9679	12.	0.546	
30787.124	3247.1743	12.	0.818	
30783.054	3247.6036	10790.	1.772	
30780.558	3247.8670	14.	0.545	
30777.635	3248.1755	12.	0.681	
30775.806	3248.3685	13.	1.363	
30773.935	3248.5660	22.	0.954	
30771.539	3248.8137	12.	0.681	
30768.685	3249.1203	12.	0.545	
30767.351	3249.2612	12.	0.681	
30760.309	3250.0051	12.	0.817	
30758.522	3250.1939	12.	1.497	
30754.631	3250.6051	13.	0.816	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
30747.315	3251.3786	12.	0.680	
30745.947	3251.5232	12.	0.952	
30736.515	3252.5211	13.	0.815	13,OR0
30735.210	3252.6591	12.	0.679	
30732.255	3252.9719	14.	1.630	13,OR1
30728.793	3253.4126	21.	0.679	14,OR9
30722.844	3253.9684	13.	0.814	14,OP8
30718.549	3254.4234	13.	0.814	13,OR2
30716.350	3254.6564	12.	1.085	13,OP1
30714.377	3254.8655	12.	0.814	
30712.445	3255.0703	14.	0.949	
30710.222	3255.3058	12.	0.542	
30708.096	3255.5312	13.	0.678	
30706.475	3255.7031	12.	0.678	
30701.893	3256.1891	21.	0.813	
30699.525	3256.4402	12.	1.219	
30697.442	3256.6611	12.	1.355	
30694.705	3256.9515	13.	0.677	13,OR3
30692.952	3257.1376	13.	0.542	
30691.863	3257.2532	13.	0.677	13,OP2
30688.350	3257.6261	12.	0.541	
30686.474	3257.8252	12.	1.624	
30682.663	3258.2298	14.	1.488	
30680.281	3258.4829	13.	0.947	
30671.111	3259.4571	21.	0.811	15,OR13
30669.533	3259.6089	13.	0.676	15,OP12
30667.867	3259.8019	12.	1.487	
30665.924	3260.0085	12.	0.811	
30663.220	3260.2960	13.	1.486	
30661.036	3260.5228	21.	0.946	13,OR4
30657.232	3260.9328	13.	0.810	13,OP3
30655.397	3261.1280	12.	0.675	
30648.519	3261.8598	12.	1.080	
30645.213	3262.2117	12.	0.675	
30643.582	3262.3854	38.	0.944	
30638.164	3262.9623	12.	0.539	
30636.193	3263.1722	23.	0.674	14,OR10
30630.604	3263.7677	21.	0.809	14,OP9
30626.478	3264.2074	12.	0.674	
30621.241	3264.7657	13.	0.808	
30619.534	3264.9477	21.	1.347	
30617.876	3265.1245	22.	0.808	13,OR5
30616.684	3265.2516	13.	0.539	
30615.524	3265.3753	12.	0.539	
30612.881	3265.6573	21.	0.808	13,OP4
30610.634	3265.8916	13.	0.942	
30609.337	3266.0354	13.	0.673	
30606.546	3266.3333	12.	1.884	
30604.227	3266.5808	13.	1.211	
30602.923	3266.7199	13.	0.538	
30599.789	3267.0545	12.	0.941	
30598.249	3267.2189	12.	0.807	
30595.516	3267.5108	12.	0.672	
30594.206	3267.6507	12.	0.535	
30591.694	3267.9191	12.	0.672	
30590.077	3268.0918	12.	1.478	
30588.229	3268.2893	12.	0.806	
30586.601	3268.4632	13.	0.672	
30582.636	3268.8870	12.	1.074	
30581.077	3269.0536	12.	0.671	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30578.511	3269.2959	12.	0.940
30577.012	3269.4883	12.	0.805
30575.106	3269.6921	12.	1.074
30573.225	3269.8932	12.	0.805
30572.042	3270.0198	12.	0.537
30570.504	3270.1843	12.	0.537
30569.575	3270.2837	12.	0.537
30568.605	3270.3875	12.	0.671
30565.058	3270.7670	25.	0.805
30562.617	3271.0282	12.	0.536
30561.315	3271.1675	13.	0.804
30558.952	3271.4206	22.	1.475
30555.920	3271.7451	13.	0.670
30554.600	3271.8865	12.	0.536
30553.237	3272.0325	13.	0.804
30551.067	3272.2649	12.	0.804
30547.876	3272.6067	13.	0.804
30546.383	3272.7667	21.	0.804
30544.596	3272.9581	13.	0.536
30542.664	3273.1652	12.	1.071
30540.907	3273.3536	15.	0.803
30539.874	3273.4642	14.	0.669
30538.267	3273.6365	13.	0.669
30534.719	3274.0169	3110.	1.606
30531.487	3274.3635	13.	0.936
30529.191	3274.6098	15.	0.803
30526.792	3274.8671	12.	2.273
30524.593	3275.1030	12.	1.070
30522.477	3275.3301	13.	1.471
30520.652	3275.5260	13.	1.069
30517.887	3275.8228	12.	1.336
30516.524	3275.9690	12.	0.535
30514.844	3276.1494	13.	0.668
30513.493	3276.2945	12.	0.668
30511.657	3276.4916	13.	0.668
30510.532	3276.6124	13.	0.534
30509.120	3276.7641	12.	1.202
30505.697	3277.1317	14.	0.801
30502.673	3277.4567	17.	0.801
30500.833	3277.6544	13.	0.667
30499.014	3277.8499	12.	1.066
30497.049	3278.0611	14.	0.534
30495.959	3278.1783	16.	0.801
30492.448	3278.5557	14.	0.800
30489.845	3278.8357	13.	1.334
30488.110	3279.0222	14.	0.800
30486.488	3279.1967	13.	0.800
30484.013	3279.4630	13.	0.666
30481.864	3279.6941	13.	0.800
30480.263	3279.8665	15.	1.066
30478.048	3280.1048	17.	0.799
30476.126	3280.3117	18.	0.666
30472.576	3280.6938	7220.	2.797
30468.394	3281.1441	17.	0.533
30466.783	3281.3177	16.	0.799
30465.338	3281.4733	16.	0.799
30463.930	3281.6250	15.	0.665
30462.425	3281.7872	13.	1.065
30460.190	3282.0279	14.	1.464
30458.167	3282.2459	13.	0.665

13,OR6

13,OP5

15,OR14

15,OP13

14,OR11

14,OP10

13,OR7

16,1R0

13,OP6

16,1R1

16,1R2

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30456.774	3282.3960	14.	0.793
30455.577	3282.5250	13.	0.532
30454.275	3282.6654	16.	0.798
30452.967	3282.8065	15.	0.532
30451.871	3282.9246	13.	0.532
30450.213	3283.1033	13.	1.197
30448.726	3283.2636	13.	0.665
30447.239	3283.4241	12.	0.532
30444.972	3283.6685	14.	0.797
30442.201	3283.9675	13.	1.063
30440.831	3284.1152	12.	0.531
30438.842	3284.3298	13.	0.531
30436.873	3284.5423	12.	0.531
30433.724	3284.8821	12.	0.664
30432.281	3285.0379	12.	0.797
30430.730	3285.2054	18.	0.797
30428.696	3285.4249	12.	0.664
30427.232	3285.5831	13.	0.929
30424.666	3285.8601	17.	0.796
30423.285	3286.0093	16.	0.663
30420.665	3286.2923	14.	0.796
30418.831	3286.4904	16.	0.796
30414.881	3286.9173	13.	0.796
30413.534	3287.0629	12.	0.530
30411.598	3287.2722	12.	0.663
30406.925	3287.7774	12.	1.325
30401.365	3288.3787	16.	1.192
30385.045	3290.1449	13.	0.794
30377.479	3290.9645	14.	0.926
30375.896	3291.1359	13.	0.661
30374.769	3291.2559	13.	0.529
30373.957	3291.3461	13.	0.661
30372.239	3291.5323	14.	0.925
30369.807	3291.7958	12.	0.661
30351.794	3293.7495	12.	0.528
30349.385	3294.0110	21.	0.924
30347.766	3294.1867	12.	0.660
30345.922	3294.3869	12.	0.791
30343.623	3294.6365	13.	0.923
30341.280	3294.8909	16.	0.791
30338.893	3295.1501	12.	1.055
30329.861	3296.1315	15.	0.790
30327.433	3296.3953	14.	0.922
30324.880	3296.6729	15.	0.790
30322.848	3296.8937	14.	0.790
30320.605	3297.1377	13.	0.653
30318.649	3297.3504	12.	0.527
30317.070	3297.5222	13.	0.790
30315.264	3297.7187	13.	0.790
30313.935	3297.8632	12.	0.526
30312.754	3297.9917	12.	0.526
30311.239	3298.1565	12.	0.921
30309.672	3298.3270	12.	0.653
30308.392	3298.4663	12.	0.921
30306.399	3298.6833	17.	0.653
30305.050	3298.8301	18.	0.789
30302.580	3299.0990	15.	0.920
30299.089	3299.4791	15.	0.789
30297.864	3299.6125	13.	0.526
30296.506	3299.7604	13.	0.788

16,1R3

16,1P2

13,0R8

14,0R12

13,0P7

16,1R4

16,1P3,14,0P11

15,0P14,15,0R15

16,1R5

16,1P4

13,0R9

12,0R0

12,0R1

13,0P8

12,0R2

12,0P1

16,1R6

16,1P5

12,0P3

14,0R13

12,0P2

14,0P12

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30294.902	3299.9352	13.	0.788
30293.558	3300.0816	12.	0.920
30292.200	3300.2296	13.	0.657
30289.856	3300.4850	12.	1.445
30287.344	3300.7537	13.	0.525
30286.150	3300.8888	14.	0.657
30284.922	3301.0226	13.	0.525
30283.123	3301.2187	12.	0.788
30281.643	3301.3801	12.	0.525
30280.374	3301.5184	15.	0.656
30278.906	3301.6785	13.	1.312
30277.126	3301.8727	14.	0.787
30274.902	3302.1152	12.	0.525
30273.332	3302.2865	26.	0.918
30270.691	3302.5746	15.	1.574
30268.147	3302.8522	17.	0.787
30266.416	3303.0411	13.	0.918
30264.654	3303.2334	13.	1.311
30262.530	3303.4652	17.	1.311
30260.371	3303.7010	16.	0.786
30258.740	3303.8790	25.	0.786
30256.964	3304.0730	14.	0.524
30255.694	3304.2117	15.	0.655
30253.606	3304.4397	22.	0.917
30251.620	3304.6567	14.	0.917
30250.030	3304.8303	22.	0.786
30248.044	3305.0474	14.	0.786
30246.355	3305.2319	15.	1.047
30245.099	3305.3692	15.	0.524
30243.700	3305.5221	17.	0.654
30242.482	3305.6552	16.	0.654
30241.241	3305.7908	15.	0.654
30239.198	3306.0142	17.	0.523
30237.931	3306.1528	21.	1.177
30236.245	3306.3371	15.	0.654
30234.530	3306.5246	14.	0.654
30232.511	3306.7455	14.	0.523
30230.650	3306.9491	25.	0.784
30228.301	3307.2061	14.	0.784
30226.647	3307.3870	14.	1.307
30224.300	3307.6438	21.	0.784
30222.621	3307.8276	13.	0.784
30220.134	3308.0999	14.	0.784
30218.570	3308.2711	12.	1.045
30217.414	3308.3976	12.	0.522
30215.038	3308.6578	12.	0.522
30213.380	3308.8394	12.	1.828
30209.339	3309.2820	12.	0.783
30206.518	3309.5910	12.	1.175
30204.493	3309.8129	12.	1.566
30201.463	3310.1450	12.	0.522
30200.227	3310.2805	13.	0.783
30197.348	3310.5961	12.	0.522
30196.232	3310.7185	13.	0.522
30191.177	3311.2728	16.	0.782
30188.769	3311.5370	15.	0.782
30185.875	3311.8545	12.	0.912
30184.253	3312.0324	12.	1.042
30182.206	3312.2571	12.	1.563
30178.489	3312.6650	25.	0.781

12,OR4

12,OP3

16,1R7

16,1P6

13,OR10

15,OP15 15,OR16

13,OP9

12,OR5

12,OP4

16,1R8

16,1P7

12,OR6

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30176.659	3312.2615	21.	0.781
30174.969	3313.0515	13.	1.172
30172.915	3313.2770	12.	0.781
30170.873	3313.5013	25.	0.911
30169.442	3313.6555	12.	0.521
30166.953	3313.9319	12.	1.041
30163.692	3314.2901	14.	0.780
30160.702	3314.6187	15.	0.780
30158.825	3314.8250	25.	0.780
30149.542	3315.8346	21.	0.780
30140.872	3316.7995	12.	0.909
30136.270	3317.3060	12.	0.909
30128.380	3318.1748	13.	0.908
30126.584	3318.3726	12.	1.038
30122.104	3318.8661	12.	1.037
30116.865	3319.4435	37.	0.778
30115.123	3319.6355	24.	1.166
30113.446	3319.8205	13.	0.777
30111.432	3320.0424	12.	0.518
30110.235	3320.1744	15.	0.545
30108.081	3320.4120	25.	1.036
30103.449	3320.9229	14.	0.777
30100.379	3321.2616	15.	0.777
30097.786	3321.5477	14.	0.518
30096.672	3321.6707	15.	0.776
30089.669	3322.4438	12.	1.811
30084.885	3322.9722	15.	0.905
30082.615	3323.2229	13.	0.517
30078.159	3323.7153	15.	0.546
30074.277	3324.0670	12.	0.517
30073.997	3324.1752	12.	0.517
30070.125	3324.6033	13.	0.904
30062.030	3325.4986	12.	0.774
30058.012	3325.9431	13.	0.516
30056.764	3326.0812	13.	0.774
30054.537	3326.3277	13.	1.161
30051.935	3326.6157	15.	0.903
30049.920	3326.8388	26.	0.774
30047.428	3327.1147	12.	0.545
30045.612	3327.3159	30.	1.289
30043.492	3327.5506	14.	0.644
30041.236	3327.8005	15.	0.515
30039.648	3327.9765	22.	1.546
30037.743	3328.1875	12.	0.644
30036.165	3328.3623	24.	0.902
30033.513	3328.6563	17.	0.773
30029.584	3329.0918	12.	1.802
30025.420	3329.5535	12.	1.158
30023.885	3329.7238	26.	0.543
30022.839	3329.8397	25.	0.543
30021.131	3330.0292	25.	0.772
30019.958	3330.1593	17.	0.515
30018.061	3330.3697	27.	1.544
30014.846	3330.7265	28.	0.772
30012.044	3331.0374	12.	0.514
30010.746	3331.1816	23.	0.543
30009.520	3331.3177	21.	0.900
30007.934	3331.4871	12.	0.543
30005.805	3331.7301	27.	0.771
30003.809	3331.9518	14.	0.542

ASSIGNMENT
(v', v'', Branch J)

14,OR14

12,OP5,14,OP13

13,OR11
13,OP10

15,1R0
15,1R1
12,OR7

16,1R9
15,1R2;12,OP6;16,1P8

15,OP16
15,OR17

15,1R3
15,1P2

15,1R4
15,1P3;13,OR12

12,OR8

14,OR15;13,OP11

12,OP7
14,OP14

16,1R10
16,1P9

15,1R5

15,1P4

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30002.439	3332.1039	12.	0.514
30000.204	3332.3521	23.	0.642
29998.037	3332.5929	12.	0.771
29996.329	3332.7827	13.	0.899
29993.921	3333.0503	23.	0.642
29992.015	3333.2620	12.	0.642
29986.990	3333.8206	23.	0.770
29985.164	3334.0237	13.	1.026
29981.396	3334.4427	13.	0.641
29979.403	3334.6644	22.	0.769
29977.518	3334.8741	13.	0.513
29976.441	3334.9939	12.	0.641
29975.230	3335.1287	12.	0.513
29971.238	3335.5728	21.	0.769
29969.363	3335.7815	14.	0.769
29965.501	3336.2114	34.	0.897
29962.473	3336.5486	18.	0.768
29960.496	3336.7689	13.	0.640
29959.150	3336.9158	12.	0.512
29957.754	3337.0742	16.	0.768
29954.861	3337.3965	28.	1.024
29953.166	3337.5855	22.	0.768
29951.113	3337.8141	16.	0.896
29943.100	3338.7075	16.	0.767
29937.601	3339.3207	22.	0.639
29934.542	3339.6620	14.	0.639
29933.115	3339.8212	17.	0.767
29931.635	3339.9863	24.	1.150
29928.960	3340.2849	13.	0.639
29927.985	3340.3938	13.	0.511
29923.072	3340.9422	12.	0.511
29921.712	3341.0940	25.	0.638
29920.550	3341.2238	17.	0.638
29918.291	3341.4760	15.	0.638
29917.373	3341.5786	14.	0.638
29915.723	3341.7629	15.	0.638
29914.476	3341.9023	27.	0.638
29912.711	3342.0995	16.	0.638
29909.830	3342.4213	18.	0.765
29907.787	3342.6497	13.	0.638
29899.575	3343.5678	12.	0.510
29896.642	3343.8959	21.	0.765
29893.230	3344.2775	22.	0.764
29891.708	3344.4478	17.	0.764
29887.734	3344.8925	17.	0.637
29886.410	3345.0407	16.	0.764
29884.873	3345.2128	12.	1.013
29881.856	3345.5505	29.	0.764
29879.815	3345.7790	12.	0.764
29877.257	3346.0655	13.	0.636
29875.815	3346.2270	49.	0.891
29871.246	3346.6716	13.	0.763
29869.413	3346.9442	12.	1.399
29867.726	3347.1332	12.	0.763
29864.288	3347.5186	28.	0.763
29862.605	3347.7073	13.	0.890
29858.044	3348.2167	14.	0.889
29854.876	3348.5740	12.	0.635
29843.894	3349.8063	18.	0.635
29842.551	3349.9570	12.	0.761

12,OR9

15,1R6

12,OP8;11,OR0

15,1P5

11,OR1

11,OR2

11,OP1

15,OP17

15,OR18;13,OR13

13,OP12

16,1R11

16,1P10

11,OR3

11,OP2

15,1R7

14,OR16

15,1P6

14,OP15

11,OR4

12,OR10;11,OP3

12,OP9

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29839.726	3350.2741	37.	0.585	11,OR5
29834.056	3350.5109	12.	0.634	
29832.136	3351.1245	25.	0.761	11,OP4
29829.121	3351.4683	21.	0.761	
29826.158	3351.7983	24.	0.760	15,1R8
29823.832	3352.0596	12.	0.507	
29822.437	3352.2164	12.	1.267	
29820.685	3352.4134	16.	0.760	15,1P7
29816.063	3352.9331	12.	0.507	
29813.817	3353.1857	23.	0.586	
29812.105	3353.3782	18.	0.760	16,1R12
29809.920	3353.6241	16.	0.886	16,1P11
29807.640	3353.8806	12.	1.012	
29806.096	3354.0543	13.	0.506	
29804.940	3354.1845	29.	0.759	13,OR14
29803.693	3354.3248	12.	0.506	
29802.439	3354.4660	12.	0.759	
29798.203	3354.9428	22.	0.759	
29796.145	3355.1746	13.	0.759	13,OP13
29794.530	3355.3565	23.	0.759	
29788.173	3356.0725	42.	0.885	11,OR6
29783.896	3356.5545	13.	0.632	
29782.044	3356.7631	25.	0.632	
29780.954	3356.8860	15.	0.505	
29779.123	3357.0925	30.	0.758	11,OP5
29777.112	3357.3191	38.	0.758	12,OR11
29775.305	3357.5230	24.	1.010	
29773.899	3357.6815	14.	0.505	
29772.757	3357.8103	14.	0.631	
29771.392	3357.9642	14.	0.631	
29769.533	3358.1740	14.	0.757	
29767.920	3358.3559	14.	0.757	
29764.985	3358.6870	36.	1.387	12,OP10
29763.331	3358.8737	15.	0.631	
29760.502	3359.1930	16.	0.757	15,OP18
29757.549	3359.5263	17.	0.756	15,OR19
29755.641	3359.7418	12.	0.756	
29751.740	3360.1823	15.	0.882	
29748.265	3360.5749	26.	0.756	14,1R0
29746.506	3360.7736	23.	0.882	15,1R9
29744.344	3361.0179	15.	0.630	14,1R1
29742.490	3361.2274	14.	1.133	
29740.552	3361.4431	21.	0.881	15,1P8
29738.515	3361.6767	22.	0.755	14,OR17
29736.617	3361.8913	14.	0.755	
29734.742	3362.1033	13.	0.755	
29733.394	3362.2557	17.	0.755	14,OP16
29732.010	3362.4122	13.	0.629	
29730.559	3362.5763	32.	0.755	14,1R2
29727.254	3362.9502	47.	0.880	11,OR7
29724.490	3363.2629	12.	0.629	
29722.324	3363.5081	14.	0.754	
29719.841	3363.7890	13.	0.628	
29718.829	3363.9036	12.	0.503	
29716.770	3364.1367	34.	0.880	11,OP6
29712.418	3364.6294	26.	0.754	
29710.701	3364.8238	13.	0.754	
29707.701	3365.1637	16.	0.753	14,1R3
29705.595	3365.4023	12.	0.502	
29704.377	3365.5402	14.	0.628	14,1P2

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
29732.559	3365.7453	13.	0.528	
29694.788	3366.6271	17.	0.502	16,1R13
29693.752	3366.7400	26.	0.502	
29692.690	3366.8650	22.	0.527	16,1P12
29689.234	3367.2569	12.	0.627	
29681.957	3368.0791	13.	0.627	
29675.046	3368.8669	27.	1.378	14,1R4
29670.946	3369.3325	17.	0.626	14,1P3
29669.226	3369.5278	69.	0.876	13,0R15;12,0R12
29665.817	3369.9150	16.	2.003	
29661.840	3370.3668	12.	1.376	
29658.685	3370.7253	24.	0.626	13,0P14
29657.076	3370.9082	48.	0.751	15,1R10;11,0R8
29656.068	3371.0229	35.	0.500	12,0P11
29654.946	3371.1504	24.	0.625	
29653.384	3371.3279	12.	0.500	
29651.347	3371.5596	21.	0.750	15,1P9
29650.062	3371.7056	14.	0.500	
29648.948	3371.8324	15.	0.750	
29647.273	3372.0229	12.	0.750	
29645.164	3372.2628	35.	0.875	11,0P7
29642.929	3372.5171	13.	0.875	
29641.478	3372.6822	13.	0.500	
29640.650	3372.7764	13.	0.625	
29636.029	3373.3023	14.	0.500	
29634.871	3373.4341	22.	0.624	
29633.550	3373.5845	23.	0.749	14,1R5
29628.618	3374.1461	18.	1.498	14,1P4
29626.282	3374.4121	13.	1.373	
29623.837	3374.6907	13.	0.749	
29617.420	3375.4218	12.	0.624	
29614.219	3375.7867	21.	0.748	
29609.687	3376.3035	13.	0.748	
29600.039	3377.4039	13.	0.747	
29598.536	3377.5755	12.	0.623	
29595.253	3377.9501	12.	0.622	
29594.363	3378.0517	12.	0.498	
29592.924	3378.2160	25.	0.871	
29591.163	3378.4170	12.	0.747	
29582.680	3379.3858	24.	0.871	14,1R6
29581.207	3379.5541	12.	0.622	
29579.567	3379.7415	18.	0.746	15,0P19
29577.449	3379.9836	57.	0.746	11,0R9
29575.167	3380.2444	31.	0.870	
29573.652	3380.4175	12.	0.497	14,1P5;15,0R20;14,0R18
29572.205	3380.5829	14.	0.497	
29570.851	3380.7377	24.	1.118	14,0P17
29568.306	3381.0287	17.	0.745	15,1R14
29566.813	3381.1995	17.	0.621	16,1P13
29564.238	3381.4825	40.	0.869	11,0P8
29561.895	3381.7620	12.	0.621	
29559.808	3382.0008	26.	1.117	15,1R11;10,0R0
29556.319	3382.4000	30.	0.745	10,0R1
29552.148	3382.8774	6810.	2.606	12,0R13
29549.919	3383.1326	23.	0.496	
29548.778	3383.2632	22.	0.496	
29546.340	3383.5424	16.	0.744	
29544.900	3383.7073	13.	0.620	
29543.010	3383.9238	31.	0.744	10,0R2
29540.578	3384.2024	13.	0.496	

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29532.626	3384.4261	32.	0.744	12,OP12;10,OP1
29536.863	3384.6220	16.	1.239	
29524.199	3384.9333	14.	0.620	
29533.078	3385.0619	13.	0.519	
29531.249	3385.2715	12.	0.519	
29530.105	3385.4026	13.	0.495	
29528.892	3385.5417	12.	0.495	
29525.927	3385.8817	24.	0.495	
29524.745	3386.0172	35.	0.519	13,OR16
29522.342	3386.2929	29.	0.519	14,1R7
29520.264	3386.5312	48.	0.866	10,OR3
29518.049	3386.7854	12.	0.519	
29516.253	3386.9915	16.	0.742	
29514.508	3387.1917	43.	1.485	13,OP15;10,OP2;14,1P6
29512.846	3387.3824	13.	0.495	
29512.013	3387.4781	12.	0.518	
29510.663	3387.6331	12.	0.742	
29509.169	3387.8046	12.	0.742	
29507.716	3387.9714	13.	0.989	
29506.317	3388.1321	12.	0.495	
29504.052	3388.3922	13.	0.518	
29502.228	3388.6017	17.	0.518	
29500.782	3388.7678	13.	0.494	
29499.684	3388.8939	15.	0.741	
29497.784	3389.1122	15.	0.741	
29495.148	3389.4151	16.	0.518	
29493.068	3389.6542	13.	1.112	
29491.321	3389.8549	13.	1.111	
29488.262	3390.2066	67.	1.505	11,OR10;10,OR4
29485.111	3390.5689	14.	0.517	
29482.279	3390.8946	17.	0.517	
29480.725	3391.0733	38.	0.740	10,OP3
29479.006	3391.2711	14.	0.517	
29477.857	3391.4033	17.	0.517	
29475.625	3391.6601	14.	0.493	
29474.278	3391.8152	54.	0.287	11,OP9
29471.158	3392.1742	13.	0.516	
29467.197	3392.6302	12.	0.493	
29465.499	3392.8257	13.	0.739	
29463.813	3393.0199	14.	0.516	
29459.867	3393.4743	12.	0.493	
29458.905	3393.5852	13.	0.739	
29457.112	3393.7917	15.	1.355	
29455.049	3394.0294	27.	0.516	
29453.997	3394.1507	21.	0.493	
29452.832	3394.2850	29.	0.862	15,1R12;14,1R8
29451.246	3394.4677	17.	0.516	
29450.273	3394.5798	16.	0.492	

				ASSIGNMENT (v', v'', Branch J)
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
29437.493	3396.0536	39.	0.842	10,OP4
29436.114	3396.2127	15.	0.601	
29434.583	3396.3895	13.	0.842	
29433.231	3396.5455	21.	0.601	16,1R15
29432.205	3396.6639	23.	0.601	16,1P14
29429.147	3397.0167	14.	1.082	
29426.951	3397.2703	58.	1.082	12,OR14
29421.786	3397.8667	13.	1.442	
29419.876	3398.0873	12.	0.601	
29416.586	3398.4674	14.	0.600	
29415.087	3398.6406	25.	0.600	
29412.561	3398.9324	40.	0.720	12,OP13
29410.951	3399.1185	14.	0.600	
29408.509	3399.4008	14.	0.600	
29406.902	3399.5866	12.	0.600	
29403.869	3399.9372	36.	0.840	14,OR19
29401.699	3400.1882	16.	0.600	
29399.929	3400.3928	22.	0.840	14,OP18
29395.323	3400.9257	67.	0.839	10,OR6
29390.936	3401.4333	67.	0.839	15,OP20;11,OR11
29388.816	3401.6788	13.	0.719	
29384.870	3402.1355	56.	0.839	10,OP5
29375.710	3403.1964	64.	0.718	11,OP10
29374.442	3403.3433	30.	0.598	14,1R9
29373.198	3403.4875	14.	0.479	
29371.557	3403.6314	35.	0.838	13,OR17
29369.834	3403.8774	12.	0.718	
29365.381	3404.3936	28.	0.718	14,1P8
29363.723	3404.5857	16.	1.316	13,1R0
29361.464	3404.8477	31.	0.717	13,OP16
29359.912	3405.0277	15.	0.478	13,1R1
29357.779	3405.2751	12.	0.837	
29354.700	3405.6323	12.	0.956	
29353.171	3405.8097	12.	1.195	
29349.065	3406.2862	14.	0.597	
29347.981	3406.4121	13.	0.478	
29346.643	3406.5674	22.	0.717	13,1R2
29344.729	3406.7896	13.	0.478	
29343.692	3406.9099	13.	0.597	
29341.629	3407.1494	12.	0.597	
29340.270	3407.3073	12.	0.597	
29338.902	3407.4661	12.	0.716	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29337.292	3407.6532	27.	0.835	15,1R13
29335.014	3407.9179	24.	0.835	10,0R7
29332.656	3408.1912	13.	0.954	
29330.322	3408.4630	29.	0.835	15,1P12
29327.395	3408.6032	12.	0.835	
29325.623	3409.0092	12.	0.715	
29324.196	3409.1750	25.	0.596	13,1R3
29322.874	3409.3288	56.	0.715	10,0P6
29321.157	3409.5284	14.	0.477	
29320.027	3409.6598	16.	0.953	13,1P2
29317.572	3409.9453	12.	1.787	
29315.356	3410.2031	14.	0.715	
29313.147	3410.4601	14.	0.715	
29311.416	3410.6616	14.	0.595	
29310.326	3410.7884	21.	0.595	
29307.958	3411.0640	12.	0.833	
29303.951	3411.5304	15.	0.833	
29301.621	3411.8017	14.	0.833	
29300.397	3411.9442	12.	0.476	
29297.322	3412.3023	12.	0.595	
29294.220	3412.6637	14.	0.595	
29292.564	3412.8566	55.	1.308	12,0R15;13,1R4
29289.437	3413.2210	30.	0.832	16,1P15;16,1R16
29286.863	3413.5210	38.	0.832	14,1R10;13,1P3
29284.338	3413.8153	78.	0.951	11,0R12
29278.066	3414.5467	44.	0.594	12,0P14
29277.066	3414.6633	29.	0.475	14,1P9
29275.891	3414.8004	29.	0.594	
29272.114	3415.2410	12.	0.712	
29269.229	3415.5777	16.	0.475	
29267.968	3415.7248	61.	0.831	11,0P11
29265.474	3416.0159	31.	0.831	10,0R8
29261.636	3416.4639	13.	0.474	
29260.769	3416.5652	13.	0.474	
29258.978	3416.7743	13.	0.712	
29257.763	3416.9152	13.	0.474	
29256.856	3417.0221	13.	0.593	
29255.017	3417.2370	12.	0.593	
29251.624	3417.6333	73.	1.067	13,1R5;10,0P7
29249.387	3417.8947	14.	0.474	
29247.337	3418.1344	12.	0.948	
29244.179	3418.5034	26.	0.829	13,1P4
29242.578	3418.6905	13.	0.711	
29241.132	3418.8596	12.	0.711	
29240.086	3418.9819	12.	0.592	
29238.005	3419.2253	12.	0.474	
29235.793	3419.4841	14.	1.184	
29234.306	3419.6580	14.	0.710	
29231.977	3419.9304	14.	0.710	
29229.997	3420.1621	13.	0.592	
29224.319	3420.8266	26.	0.710	14,0R20
29222.511	3421.0382	12.	0.473	
29221.226	3421.1837	23.	0.709	14,0P19
29215.252	3421.4853	13.	0.709	
29213.023	3422.1494	29.	0.827	15,1R14
29210.885	3422.3298	35.	0.827	13,0R18
29206.097	3422.9609	27.	0.827	15,1P13
29202.445	3423.3891	15.	0.590	
29200.827	3423.5788	41.	1.062	13,0P17;13,1R6
29199.383	3423.7481	13.	0.472	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29196.835	3424.1469	13.	0.708	13,1P5
29194.158	3424.3608	20.	0.708	
29192.701	3424.5317	26.	0.708	
29190.485	3424.7918	30.	0.708	14,1R11
29186.802	3425.2239	117.	0.943	10,OR9
29184.652	3425.4762	12.	0.589	14,1P10
29181.464	3425.8505	12.	0.471	
29179.965	3426.0265	30.	0.325	
29176.785	3426.3999	12.	0.825	10,OP8
29175.015	3426.6078	13.	0.589	
29171.594	3427.0096	83.	0.942	
29168.812	3427.3365	81.	0.824	11,OR13
29166.455	3427.6134	12.	0.589	9,OR0
29164.580	3427.8339	22.	0.524	
29162.253	3428.1074	13.	0.471	
29160.934	3428.2625	33.	0.706	9,OR1
29159.014	3428.4852	13.	0.706	
29155.771	3428.8696	14.	0.588	
29154.815	3428.9819	14.	0.470	11,OP12
29153.247	3429.1664	15.	0.706	
29151.615	3429.3584	68.	0.823	
29150.128	3429.5333	58.	0.823	12,OR16
29147.837	3429.8029	52.	0.823	9,OR2
29145.889	3430.0322	13.	0.705	9,OP1
29143.844	3430.2729	26.	0.705	
29141.676	3430.5281	30.	0.822	
29137.964	3430.9651	27.	1.644	16,1P16;16,1R17
29134.911	3431.3247	44.	0.822	12,OP15
29132.047	3431.6619	28.	0.704	13,1P6
29128.993	3432.0217	14.	1.291	9,OR3
29126.942	3432.2635	12.	0.587	
29125.361	3432.4497	66.	0.821	
29119.234	3433.1603	23.	0.821	9,OP2
29116.725	3433.4679	13.	0.586	10,OR10
29115.630	3433.5970	14.	0.703	
29114.608	3434.8974	14.	0.586	
29098.956	3435.5633	120.	0.937	9,OR4
29097.541	3435.7317	13.	0.465	
29093.439	3436.2160	32.	0.936	
29090.836	3436.5117	14.	0.702	14,1R12;9,OP3
29089.041	3436.7356	12.	0.936	
29087.382	3436.9316	13.	1.053	
29085.439	3437.1612	70.	0.936	10,OP9
29082.372	3437.5237	90.	0.935	15,1R15
29080.054	3437.7977	24.	0.818	14,1P11
29077.837	3438.0598	13.	1.052	
29076.136	3438.2610	13.	0.935	
29074.234	3438.4859	28.	0.467	15,1P14;13,1R8
29073.150	3438.6142	50.	0.818	
29071.740	3438.7809	12.	0.584	
29068.256	3439.1921	14.	0.934	13,1P7
29065.818	3439.4816	15.	0.584	
29063.858	3439.7135	13.	0.817	
29062.340	3439.8931	31.	0.817	9,OR5
29060.335	3440.1305	16.	0.817	
29056.311	3440.6069	63.	0.933	
29053.212	3440.9739	26.	0.467	9,OR5
29052.213	3441.0922	102.	0.816	
29047.767	3441.6190	12.	0.583	
29046.196	3441.8052	12.	0.466	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29044.521	3441.9966	90.	0.816	11,OR14
29042.020	3442.3001	66.	1.515	13,OR19;9,OP4
29037.806	3442.7936	15.	0.582	
29036.800	3442.9190	25.	0.699	14,OR21
29034.720	3443.1656	26.	0.815	14,OP20
29031.639	3443.5310	32.	0.931	13,OP18
29028.724	3443.8768	14.	0.698	
29026.553	3444.1343	73.	0.815	11,OP13
29024.178	3444.4162	14.	0.698	
29023.003	3444.5556	13.	0.582	
29020.402	3444.8644	13.	0.698	
29013.345	3445.7023	13.	0.814	
29010.660	3446.0212	13.	1.162	
29008.495	3446.2784	15.	0.697	
29006.498	3446.5157	16.	1.162	
29001.948	3447.0565	243.	1.394	11,OR11;9,OR6
28999.019	3447.4047	51.	0.929	12,OR17
28995.754	3447.7928	31.	0.697	13,1R9
28991.834	3448.2590	13.	0.812	
28989.960	3448.4819	102.	0.923	9,OP5
28987.591	3448.7637	12.	1.503	
28984.015	3449.1893	117.	1.508	13,1P8;12,OP16;10,OP10
28981.091	3449.5372	17.	0.812	
28979.586	3449.7164	13.	0.580	
28978.437	3449.8532	23.	0.812	16,1P17
28976.898	3450.0364	21.	0.696	16,1R18
28974.610	3450.3089	14.	0.579	12,1R0
28973.524	3450.4382	14.	0.579	
28971.092	3450.7279	31.	0.927	14,1R13;12,1R1
28969.504	3450.9170	15.	0.695	
28967.816	3451.1181	16.	0.579	
28966.713	3451.2495	14.	0.695	
28965.051	3451.4476	12.	0.579	
28963.647	3451.6148	12.	1.042	
28962.077	3451.8020	13.	0.695	
28960.681	3451.9684	17.	0.463	
28959.661	3452.0901	30.	0.695	14,1P12
28958.059	3452.2810	22.	0.926	12,1R2
28955.786	3452.5520	13.	0.579	
28954.467	3452.7093	14.	0.694	12,1P1
28952.925	3452.8932	13.	0.578	
28951.915	3453.0136	12.	0.463	
28951.067	3453.1142	12.	0.578	
28949.152	3453.3432	12.	0.810	
28947.336	3453.5592	13.	0.809	
28944.950	3453.8445	12.	0.694	
28941.985	3454.1963	142.	1.040	9,OR7
28940.131	3454.4197	13.	0.578	
28938.673	3454.5937	23.	0.693	15,1R16
28937.340	3454.7528	14.	0.578	
28935.788	3454.9381	23.	0.693	12,1R3
28932.082	3455.3808	24.	0.693	15,1P15
28930.580	3455.5601	16.	0.808	12,1P2
28928.373	3455.8238	93.	0.924	9,OP6
28926.469	3456.0513	12.	0.808	
28920.048	3456.8186	15.	0.577	
28918.033	3457.0595	12.	0.692	
28915.197	3457.3986	13.	0.577	
28911.787	3457.8064	76.	0.922	11,OR15
28909.436	3458.0876	31.	0.807	13,1R10

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
28907.103	3458.3666	14.	0.575	
28906.141	3458.4817	15.	0.592	
28904.358	3458.6903	26.	0.807	12,1R4
28901.583	3459.0272	13.	0.591	
28900.120	3459.2023	12.	0.591	
28897.700	3459.4920	21.	0.461	12,1P3
28896.436	3459.6434	189.	1.035	13,1P9;10,OR12
28893.091	3460.0438	73.	0.806	11,OP14
28888.029	3460.6502	14.	0.590	
28883.784	3461.1588	13.	1.956	
28881.638	3461.4160	13.	0.575	
28880.680	3461.5309	12.	0.460	
28879.307	3461.6954	18.	0.805	
28877.395	3461.9246	103.	0.920	10,OP11
28875.013	3462.2102	16.	1.150	
28873.088	3462.4411	166.	1.034	9,OR8
28871.366	3462.6476	12.	0.575	
28869.191	3462.9085	14.	0.804	
28866.340	3463.2505	14.	0.589	
28864.231	3463.5036	51.	0.919	12,1R5;13,OR20
28862.907	3463.6624	14.	0.459	
28861.559	3463.8230	12.	0.574	9,OP7
28857.708	3464.2865	112.	0.918	
28855.172	3464.5910	32.	1.377	12,1P4;13,OP19
28848.694	3465.3689	27.	0.588	14,1R14
28847.260	3465.5412	13.	0.803	
28844.538	3465.8682	15.	0.803	
28841.617	3466.2192	23.	0.573	14,OR22
28839.708	3466.4487	43.	0.588	14,OP21;12,OR18
28836.765	3466.8024	30.	0.588	14,1P13
28835.207	3466.9898	12.	0.573	
28834.025	3467.1319	14.	0.573	
28832.308	3467.3384	14.	0.573	
28829.840	3467.6353	12.	0.587	
28828.023	3467.8538	12.	0.458	
28826.704	3468.0125	13.	1.145	
28824.275	3468.3048	41.	0.801	12,OP17
28818.955	3468.9450	12.	1.716	
28815.709	3469.3358	12.	0.458	
28814.289	3469.5067	51.	0.915	13,1R11;12,1R6
28812.340	3469.7414	12.	0.586	
28810.955	3469.9083	17.	0.801	16,1P18
28808.150	3470.2462	16.	0.686	16,1R19
28804.256	3470.7154	24.	0.686	12,1P5
28801.833	3471.0073	13.	0.914	
28800.216	3471.2022	31.	0.686	13,1P10
28795.078	3471.8215	189.	1.028	9,OR9
28793.046	3472.0667	13.	0.571	
28788.941	3472.5617	26.	0.799	15,1R17
28786.049	3472.9105	16.	0.685	
28782.307	3473.3621	136.	1.483	15,1P16;10,OR13
28779.906	3473.6519	12.	0.570	
28777.965	3473.8861	120.	1.026	9,OP8
28774.779	3474.2702	13.	1.026	
28772.986	3474.4874	12.	0.456	
28770.375	3474.8027	85.	1.254	8,OR0;11,OR16
28767.634	3475.1338	17.	0.456	
28766.479	3475.2733	43.	0.684	8,OR1
28764.985	3475.4537	18.	0.684	
28761.211	3475.8374	102.	0.911	10,OP12

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28759.853	3475.0740	14.	0.583	
28757.803	3476.3217	12.	1.252	
28755.803	3476.5629	32.	0.797	12,1R7
28753.578	3476.8326	63.	0.797	8,OR2
28751.195	3477.1208	60.	0.310	11,OP15
28749.197	3477.3624	25.	0.796	8,OP1
28747.664	3477.5479	12.	0.796	
28746.493	3477.6896	13.	0.683	
28745.442	3477.8166	13.	0.455	
28744.154	3477.9725	30.	0.796	12,1P6
28742.570	3478.1642	16.	0.796	
28741.431	3478.3021	14.	0.455	
28738.842	3478.6154	15.	1.364	
28736.277	3478.9259	15.	0.909	
28734.407	3479.1523	15.	0.455	
28733.292	3479.2874	15.	0.568	
28731.328	3479.5252	97.	0.309	8,OR3
28728.583	3479.8577	15.	0.682	
28726.382	3480.1243	17.	0.795	
28724.768	3480.3198	50.	0.795	8,OP2
28722.473	3480.5980	14.	0.454	
28721.571	3480.7072	15.	0.454	
28720.435	3480.8449	14.	0.568	
28719.107	3481.0060	14.	0.567	
28717.584	3481.1906	28.	0.794	14,1R15
28715.933	3481.3907	16.	0.681	
28714.384	3481.5785	14.	0.303	
28712.929	3481.7550	14.	0.567	
28711.707	3481.9030	14.	0.567	
28710.358	3482.0667	31.	0.680	13,1R12
28709.242	3482.2020	18.	0.454	
28707.961	3482.3575	134.	0.307	9,OR10
28705.444	3482.6628	27.	0.794	14,1P14
28703.115	3482.9454	14.	0.680	
28701.268	3483.1635	15.	0.680	
28699.763	3483.3522	114.	0.307	8,OR4
28698.230	3483.5383	13.	0.453	
28697.250	3483.6573	14.	0.453	
28695.438	3483.8773	32.	0.793	13,1P11
28694.015	3484.0501	13.	0.566	
28692.769	3484.2013	14.	0.679	
28691.038	3484.4115	62.	0.793	8,OP3
28689.374	3484.6136	134.	0.793	9,OP9
28688.168	3484.7601	29.	0.566	12,1R8
28685.959	3485.0225	14.	0.679	
28684.062	3485.2590	13.	0.905	
28682.607	3485.4358	13.	0.566	
28681.582	3485.5603	12.	0.566	
28679.202	3485.8495	29.	0.792	13,OR21
28675.033	3486.3564	28.	0.792	12,1P7
28673.734	3486.5143	14.	0.452	
28672.340	3486.6839	44.	0.791	12,OR19
28670.367	3486.9238	25.	0.791	13,OP20
28667.507	3487.2717	13.	0.678	
28665.777	3487.4821	14.	0.791	
28664.288	3487.6634	15.	0.565	
28658.959	3488.3119	485.	1.016	10,OR14;8,OR5
28656.982	3488.5526	39.	0.790	12,OP18
28653.954	3488.9212	12.	0.452	
28648.102	3489.6339	78.	0.903	8,OP4

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28642.203	3490.3527	14.	0.902	
28640.423	3490.5696	19.	0.789	
28639.040	3490.7382	34.	0.676	14,0P22;14,0R23
28637.659	3490.9029	124.	0.676	10,0P13
28635.606	3491.1568	23.	0.676	16,1P19
28633.891	3491.3659	14.	0.789	
28632.451	3491.5414	14.	0.563	
28631.162	3491.6986	28.	0.901	12,1R20;15,1R18
28629.677	3491.8798	13.	0.451	
28628.459	3492.0283	14.	0.676	
28625.380	3492.4040	28.	0.676	15,1P17
28623.153	3492.6757	13.	0.788	
28620.929	3492.9471	112.	1.013	11,0R17
28617.864	3493.3213	12.	0.900	
28616.515	3493.4859	12.	0.788	
28614.074	3493.7839	15.	0.788	
28611.936	3494.0450	262.	1.012	12,1R9;9,0R11
28608.856	3494.4211	208.	1.012	8,0R6
28601.215	3495.3547	73.	0.787	11,0P16
28597.567	3495.8007	41.	1.348	13,1R13;12,1P8
28595.895	3496.0051	133.	0.899	8,0P5
28591.857	3496.4988	199.	1.011	9,0P10
28589.527	3496.7838	14.	0.786	
28586.350	3497.1723	12.	1.347	
28584.794	3497.3628	14.	0.673	
28582.116	3497.6905	37.	0.786	13,1P12
28580.980	3497.8295	14.	0.449	
28578.227	3498.1665	35.	0.673	11,1R1;14,1R16
28575.247	3498.5313	13.	0.449	
28573.404	3498.7569	15.	1.009	
28572.014	3498.9272	22.	0.673	
28570.120	3499.1592	12.	0.561	
28565.759	3499.6933	36.	1.009	11,1R2;14,1P15
28562.829	3500.0523	12.	0.560	
28561.591	3500.2041	13.	0.784	11,1P1
28559.829	3500.4200	21.	0.672	
28554.832	3501.0326	13.	0.784	
28553.517	3501.1938	12.	0.560	
28552.150	3501.3614	12.	0.672	8,0R7
28549.575	3501.6773	223.	0.895	
28546.596	3502.0427	22.	0.559	
28545.449	3502.1835	13.	0.559	
28543.707	3502.3972	26.	0.895	11,1R3
28540.156	3502.8330	12.	0.895	
28537.796	3503.1227	20.	0.671	11,1P2
28534.655	3503.5083	167.	1.006	8,0P6
28532.948	3503.7178	13.	0.559	
28531.894	3503.8474	12.	0.447	
28527.437	3504.3948	137.	0.782	10,0R15
28526.363	3504.5267	38.	0.558	12,1R10
28519.913	3505.3193	12.	0.558	
28517.710	3505.5901	13.	0.670	
28516.122	3505.7853	12.	0.893	
28512.946	3506.1758	31.	0.669	11,1R4
28510.457	3506.4820	43.	0.892	12,1P9
28507.200	3506.8826	195.	1.004	9,0R12
28505.182	3507.1308	153.	1.004	11,1P3;10,0P14
28498.139	3507.9976	15.	0.446	
28496.999	3508.1379	48.	0.780	12,0R20
28495.602	3508.3029	12.	0.557	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
28492.561	3508.6843	13.	0.557
28491.090	3508.6656	13.	0.568
28489.262	3509.0907	14.	0.557
28488.102	3509.2336	13.	0.557
28485.920	3509.5024	173.	1.570
28483.851	3509.7573	12.	0.557
28481.477	3510.0499	213.	1.558
28478.396	3510.4297	33.	0.568
28476.830	3510.6227	30.	0.567
28474.150	3510.9531	12.	0.445
28472.926	3511.1041	26.	0.778
28467.905	3511.7233	14.	0.778
28464.449	3512.1498	176.	0.778
28463.103	3512.3158	97.	0.778
28460.258	3512.6669	43.	1.000
28454.962	3513.3208	13.	0.566
28452.525	3513.6217	15.	0.566
28450.882	3513.8246	12.	0.566
28448.147	3514.1624	13.	0.777
28446.690	3514.3424	14.	0.566
28443.208	3514.7726	86.	0.387
28440.770	3515.0739	21.	0.565
28438.162	3515.3963	13.	0.565
28434.663	3515.8289	13.	0.554
28432.397	3516.1092	29.	0.565
28430.414	3516.3544	30.	0.997
28428.084	3516.6426	28.	1.108
28424.005	3517.1473	27.	0.775
28419.571	3517.6959	12.	0.443
28418.364	3517.8454	28.	0.775
28415.188	3518.2386	35.	0.775
28412.281	3518.5986	26.	0.774
28405.784	3519.4035	13.	0.774
28403.741	3519.6565	269.	0.995
28401.445	3519.9410	12.	0.884
28399.745	3520.1518	12.	0.553
28398.379	3520.3211	14.	0.553
28397.244	3520.4612	23.	0.563
28393.672	3520.9047	183.	0.994
28391.844	3521.1315	12.	0.442
28390.680	3521.2759	15.	0.773
28388.740	3521.5164	12.	0.442
28387.364	3521.6872	118.	0.994
28385.082	3521.9703	187.	0.993
28382.508	3522.2896	12.	0.441
28381.165	3522.4564	12.	1.104
28378.203	3522.8240	36.	0.883
28376.144	3523.0797	14.	0.552
28374.764	3523.2511	51.	0.882
28373.213	3523.4436	13.	0.441
28370.819	3523.7409	180.	0.382
28369.363	3523.9218	22.	0.551
28367.714	3524.1266	13.	0.882
28366.016	3524.3377	27.	0.771
28364.369	3524.5423	135.	0.992
28362.023	3524.8338	80.	0.881
28359.004	3525.2091	15.	0.771
28357.310	3525.4196	29.	0.561
28355.462	3525.6494	15.	0.561
28352.533	3526.0136	27.	0.771

13,OR22;9,OP11

12,OP19;8,OR8

13,OP21

13,1R14

11,1R5

15,1R19;8,OP7

11,1P4;11,OR18

15,1P18;12,1P13

16,1P20

16,1R21

11,OP17

12,1R11

14,OP23;14,1R17

14,OR24

11,1R6

14,1P16

12,1P10

11,1P5

8,OR9

9,OR13

10,OR16

8,OP8

7,OR0

7,OR1

9,OP12

11,1R7

10,OP15

7,OR2

7,OP1

11,1P6

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
28350.316	3525.2893	14.	0.550	13,1R15
28347.463	3526.6443	24.	0.770	
28345.611	3526.5747	12.	0.550	
28342.986	3527.2013	14.	0.550	7,QR3
28339.967	3527.5771	105.	0.880	
28335.822	3528.0932	12.	0.550	
28334.044	3528.3145	15.	0.440	7,OP2 13,1P14 12,1R12
28332.896	3528.4576	49.	0.769	
28330.619	3528.7411	31.	0.559	
28329.677	3528.8584	27.	0.549	8,OR10 12,OR21 12,1P11
28321.355	3529.8954	12.	0.769	
28317.288	3530.4024	254.	0.988	
28313.967	3530.8166	42.	0.768	7,OR4
28311.328	3531.1456	33.	0.768	
28310.151	3531.2925	13.	0.439	
28308.649	3531.4798	137.	0.987	12,OP20;7,OP3;11,1R8 11,OR19;8,OP9
28305.594	3531.8609	21.	0.558	
28304.284	3532.0245	27.	0.548	
28303.316	3532.1453	28.	0.548	15,1R20
28299.260	3532.6515	204.	0.986	
28297.139	3532.9163	208.	1.534	
28295.233	3533.1543	12.	0.548	15,1P19 13,OR23 11,1P7 13,OP22 11,OP18 14,1R18
28292.514	3533.4938	13.	0.548	
28291.226	3533.6548	21.	0.767	
28288.279	3534.0228	12.	0.438	9,OR14 7,OR5
28287.187	3534.1593	25.	0.547	
28286.255	3534.3007	32.	0.657	
28284.017	3534.5554	28.	0.766	14,1P17 16,1P21
28279.081	3535.1724	34.	0.766	
28277.343	3535.3897	70.	0.375	
28274.969	3535.6865	22.	0.656	7,OP4 16,1R22
28273.282	3535.8975	12.	0.656	
28271.585	3536.1098	176.	0.984	
28268.140	3536.5407	180.	0.984	9,OP13
28264.172	3537.0371	13.	0.546	
28262.928	3537.1929	26.	0.656	
28261.773	3537.3374	15.	0.546	7,OP6;12,1R13 10,OP16 14,OP24
28260.110	3537.5456	12.	0.546	
28258.544	3537.7417	14.	0.546	
28256.494	3537.9982	109.	0.874	11,1R9 8,OR11
28254.249	3538.2794	14.	0.546	
28252.325	3538.5204	12.	0.546	
28250.286	3538.7759	12.	0.655	10,OR17
28249.057	3538.9297	14.	0.546	
28247.514	3539.1231	180.	0.982	
28242.669	3539.7302	12.	1.200	11,1R9 8,OR11
28240.796	3539.9650	12.	1.200	
28239.080	3540.1802	102.	0.981	
28235.908	3540.5778	14.	0.654	11,1R9 8,OR11
28234.642	3540.7367	15.	0.654	
28232.861	3540.9600	13.	0.981	
28231.046	3541.1876	12.	1.417	7,OR6;12,1R13 10,OP16 14,OP24
28226.164	3541.8001	16.	0.545	
28224.981	3541.9485	23.	0.980	
28223.616	3542.1199	25.	0.653	11,1R9 8,OR11
28222.017	3542.3205	254.	0.980	
28220.055	3542.5668	13.	0.762	
28218.421	3542.7720	262.	1.088	7,OR6;12,1R13 10,OP16 14,OP24
28215.592	3543.1272	108.	0.371	
28214.244	3543.2965	22.	0.544	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28212.117	3543.2527	13.	0.553	
28210.655	3543.7473	23.	0.544	14,OR25
28209.139	3543.8432	22.	0.553	13,1R16
28206.777	3544.2346	29.	0.761	11,1P8
28204.543	3544.5152	139.	0.870	7,OP5
28199.996	3545.0868	218.	0.369	8,OP10
28198.927	3545.2212	36.	0.543	12,1P12
28196.205	3545.5635	13.	1.304	
28192.528	3546.0259	29.	0.552	13,1P15
28188.343	3546.5524	12.	0.543	
28185.160	3546.9529	14.	0.543	
28184.237	3547.0691	16.	0.543	
28183.389	3547.1758	14.	0.543	
28181.674	3547.3916	14.	0.760	
28178.201	3547.8288	37.	0.759	
28176.424	3548.0527	32.	0.551	
28175.042	3548.2268	21.	0.551	
28170.991	3548.7369	14.	0.759	
28166.777	3549.2679	13.	0.975	
28164.619	3549.5398	12.	0.758	
28159.523	3550.1822	204.	0.975	7,OR7
28157.235	3550.4707	12.	0.433	
28149.373	3551.4623	23.	0.866	
28146.697	3551.8000	12.	0.649	7,OP6
28143.579	3552.1936	154.	0.865	9,OR15
28140.262	3552.5214	154.	0.973	11,1R10
28139.316	3552.7317	17.	0.649	
28130.553	3553.8385	13.	0.648	
28129.184	3554.0114	12.	0.648	
28126.564	3554.3425	12.	0.756	
28125.287	3554.5039	14.	0.648	
28123.640	3554.7120	60.	1.296	13,1R22;11,OR20
28121.859	3554.9359	13.	0.432	
28120.749	3555.0775	26.	0.756	11,1P9
28119.185	3555.2752	17.	0.432	
28117.945	3555.4321	218.	0.971	8,OR12
28115.881	3555.6930	158.	0.971	9,OP14
28113.322	3556.0167	17.	1.510	
28111.665	3556.2516	16.	0.647	14,1R19
28110.170	3556.4155	15.	0.431	15,1R21
28109.038	3556.5524	38.	0.755	12,OP21
28106.637	3556.8625	17.	0.647	15,1P20
28105.502	3557.0062	13.	0.539	
28103.792	3557.2226	63.	0.970	11,OP19
28101.236	3557.5398	14.	0.647	
28099.350	3557.7850	23.	1.293	13,1P18;12,1R14
28097.356	3558.0374	12.	0.539	
28096.462	3558.1506	12.	0.431	
28094.330	3558.4206	223.	0.369	8,OP11
28091.579	3558.7692	241.	0.369	7,OR8
28082.766	3559.8860	92.	0.361	10,OR18
28080.772	3560.1387	14.	0.538	
28079.665	3560.2791	15.	0.430	
28078.523	3560.4239	44.	0.753	12,1P13;13,OR24
28076.403	3560.6927	12.	0.753	
28073.583	3561.0505	191.	0.860	7,OP7
28072.462	3561.1927	26.	0.538	13,OP23
28068.579	3561.6854	15.	0.645	
28066.725	3561.9207	12.	0.645	
28064.026	3562.2632	17.	1.074	16,1P22;13,1R17

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28058.747	3562.9335	55.	0.559	10,OP17
28056.819	3563.1783	14.	0.966	
28053.553	3563.5931	13.	1.073	16,1R23
28046.449	3564.4957	33.	0.858	13,1P16;11,1R11
28040.827	3565.2105	12.	1.072	
28039.438	3565.3871	14.	0.858	
28038.182	3565.5468	12.	0.536	
28035.912	3565.8355	12.	0.643	
28031.336	3566.4176	17.	0.750	
28026.274	3567.0618	23.	0.750	11,1P10
28024.916	3567.2347	12.	0.535	
28018.113	3568.1009	15.	0.749	
28016.389	3568.3204	12.	0.535	
28014.624	3568.5452	208.	0.963	7,OR9
28012.673	3568.7938	13.	0.963	
28011.404	3568.9555	12.	0.749	
28009.220	3569.2338	12.	0.535	
28006.925	3569.5262	63.	0.855	
28004.975	3569.7748	191.	1.496	8,OR13
28002.138	3570.1364	131.	1.069	9,OR16
28000.438	3570.3532	12.	0.855	
27999.056	3570.5294	14.	0.641	
27994.632	3571.0937	208.	0.961	7,OP8
27991.264	3571.5235	34.	0.854	6,OR0;14,OP25
27987.795	3571.9661	45.	0.854	6,OR1
27985.694	3572.2343	16.	0.747	14,OR26
27980.151	3572.9420	173.	0.960	8,OP12
27976.173	3573.4500	133.	0.746	9,OP15
27975.091	3573.5882	64.	0.533	6,OR2
27973.908	3573.7394	14.	0.533	
27971.205	3574.0848	15.	0.533	12,1R16
27970.046	3574.2329	24.	0.639	6,OP1
27968.583	3574.4197	16.	1.066	
27965.291	3574.8406	13.	0.746	
27958.808	3575.6695	16.	0.745	
27956.722	3575.9363	12.	0.632	
27955.626	3576.0765	12.	0.532	
27953.306	3576.3733	59.	0.958	6,OR3
27951.219	3576.6403	12.	0.532	
27949.927	3576.8057	23.	0.745	12,1P14
27945.888	3577.3227	44.	0.638	6,OP2
27944.696	3577.4752	17.	0.638	11,1R12
27942.712	3577.7292	45.	0.635	11,OR21
27941.358	3577.9027	34.	0.633	
27940.106	3578.0630	15.	0.638	14,1R19
27938.700	3578.2431	12.	0.425	
27937.358	3578.4150	13.	0.850	
27935.056	3578.7099	10140.	1.263	
27932.243	3579.0702	14.	0.531	
27931.360	3579.1834	13.	0.425	
27930.283	3579.3214	13.	0.637	
27928.764	3579.5161	241.	0.956	14,1P19;7,OR10
27926.896	3579.7556	12.	0.637	
27925.325	3579.9570	32.	0.637	12,OR23
27923.415	3580.2018	24.	0.425	11,1R11
27922.331	3580.3408	139.	1.167	11,OP20;6,OR4;15,1R22
27920.389	3580.5899	14.	0.849	15,1P21
27918.527	3580.8287	87.	0.955	10,OR19
27916.940	3581.0322	14.	0.637	
27915.712	3581.1897	37.	0.636	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
27913.718	3581.4455	12.	0.530	
27912.116	3581.6512	62.	1.273	12,0P22;6,0P3
27910.487	3581.8602	15.	0.636	13,1R18
27908.061	3582.1716	15.	0.424	
27906.817	3582.3312	183.	1.060	7,0P9
27904.953	3582.5705	13.	0.636	
27903.672	3582.7350	12.	0.848	
27899.456	3583.2765	12.	0.424	
27897.399	3583.5407	12.	0.530	
27894.172	3583.9553	85.	0.847	10,0P18
27892.476	3584.1732	24.	1.165	13,1P17
27890.673	3584.4049	17.	0.741	
27887.955	3584.7542	12.	0.847	
27886.130	3584.9889	12.	0.529	
27883.933	3585.2713	167.	1.058	8,0R14
27881.888	3585.5342	150.	0.952	6,0R5
27880.221	3585.7487	13.	0.952	
27877.076	3586.1532	12.	0.529	
27874.820	3586.4435	14.	0.423	
27873.823	3586.5718	21.	0.528	
27869.644	3587.1096	87.	0.951	6,0P4
27867.441	3587.3932	14.	0.951	
27866.256	3587.5457	15.	0.423	
27865.542	3587.6376	14.	0.422	
27863.679	3587.8775	23.	0.739	13,0R25
27861.735	3588.1278	15.	0.634	
27859.157	3588.4599	24.	0.633	13,0P24
27857.526	3588.6699	150.	0.950	8,0P13
27854.960	3589.0007	124.	0.844	9,0R17
27853.428	3589.1980	13.	0.528	
27850.440	3589.5832	14.	1.055	
27848.692	3589.8054	14.	0.633	
27846.455	3590.0968	13.	0.844	
27844.615	3590.3341	15.	0.633	
27843.049	3590.5360	13.	0.632	
27840.293	3590.8914	15.	0.738	
27837.455	3591.2575	12.	0.527	
27835.269	3591.5396	17.	0.527	12,1R16;11,1R13
27833.958	3591.7088	204.	0.948	7,0R11
27832.219	3591.9332	173.	0.948	6,0R6
27829.895	3592.2331	12.	0.421	
27828.187	3592.4536	110.	0.948	9,0P16
27825.526	3592.7972	12.	0.421	
27823.672	3593.0365	14.	0.737	
27822.210	3593.2254	16.	0.631	
27819.989	3593.5122	1998.	1.052	
27817.878	3593.7850	121.	0.841	6,0P5
27815.319	3594.1156	16.	0.841	
27813.242	3594.3840	24.	0.631	12,1P15
27811.991	3594.5457	22.	0.631	11,1P12
27810.320	3594.7617	209.	1.051	7,0P10
27808.649	3594.9777	12.	0.420	
27807.410	3595.1378	14.	0.736	
27802.637	3595.7550	13.	0.630	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
27801.647	3595.8832	13.	0.525	
27798.866	3596.2428	14.	0.630	
27792.760	3597.0330	12.	0.630	
27778.413	3598.8909	14.	0.629	
27775.899	3599.2165	12.	0.524	
27773.885	3599.4775	164.	1.045	6,OR7
27770.356	3599.9349	12.	1.048	
27768.552	3600.1299	12.	0.628	
27765.676	3600.5412	12.	0.832	
27761.600	3601.0704	15.	1.256	14,OP26
27759.643	3601.3243	14.	0.628	
27757.068	3601.6534	130.	0.942	6,OP6
27754.024	3602.0535	213.	1.151	11,OR22; 8,OR15; 14,OR27
27750.614	3602.4960	21.	0.732	
27749.237	3602.6748	14.	0.627	
27747.698	3602.8747	14.	0.523	
27746.422	3603.0404	47.	0.732	10,OR20
27743.210	3603.4576	13.	0.627	
27741.721	3603.6510	12.	0.522	
27734.236	3604.6235	42.	0.627	11,OP21
27733.044	3604.7785	14.	0.522	
27730.710	3605.0519	323.	1.722	7,OR12
27728.431	3605.3782	3330.	1.107	
27726.664	3605.6080	313.	1.106	8,OP14
27723.529	3606.0157	29.	0.860	
27721.899	3606.2277	134.	0.860	12,OR24; 10,OP19
27720.117	3606.4596	55.	0.983	
27716.534	3606.9259	16.	0.860	11,1R14
27714.866	3607.1430	13.	1.105	
27711.505	3607.5803	24.	0.737	
27709.876	3607.7925	12.	0.982	
27707.410	3608.1136	46.	0.491	12,OP23
27706.285	3608.2601	278.	0.736	6,OR8
27704.655	3608.4725	323.	1.595	7,OP11
27701.568	3608.8745	22.	1.104	
27699.682	3609.1203	164.	0.981	9,OR18
27698.078	3609.3292	15.	0.736	
27695.717	3609.6370	16.	0.736	
27693.542	3609.9205	16.	0.490	
27692.463	3610.0611	27.	0.613	11,1P13
27690.303	3610.3427	22.	0.735	12,1R17
27688.912	3610.5242	13.	0.613	
27687.351	3610.7277	294.	1.103	6,OP7
27684.533	3611.0952	13.	0.490	
27682.241	3611.3942	13.	0.980	
27680.898	3611.5694	13.	0.612	
27678.751	3611.8496	23.	0.735	
27676.945	3612.0853	16.	0.735	
27674.740	3612.3731	23.	0.735	
27672.287	3612.6933	204.	0.979	9,OP17
27670.443	3612.9340	21.	0.979	
27668.614	3613.1729	30.	0.356	12,1P16
27666.957	3613.3893	13.	0.356	
27665.189	3613.6203	13.	0.612	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
27659.876	3614.3143	12.	0.734	
27658.678	3614.4709	12.	0.489	
27657.360	3614.6432	12.	1.100	
27655.151	3614.9319	13.	0.856	
27648.246	3615.8347	12.	0.489	
27645.861	3616.1467	16.	0.733	16,1P24
27643.317	3616.4794	15.	0.733	
27641.841	3616.6726	31.	0.855	13,OR26
27640.329	3616.8705	12.	0.488	
27638.814	3617.0687	30.	0.732	13,OP25
27636.074	3617.4273	12.	0.610	
27634.748	3617.6009	17.	0.732	
27633.051	3617.8231	14.	0.732	
27631.350	3618.0459	16.	0.732	
27629.568	3618.2791	333.	1.098	6,OR9
27625.836	3618.7680	23.	0.975	
27623.881	3619.0241	13.	0.488	
27623.022	3619.1366	13.	0.488	
27621.753	3619.3029	16.	0.509	
27620.753	3619.4339	21.	0.609	
27618.335	3619.7508	370.	1.097	7,OR13
27616.043	3620.0513	244.	1.218	8,OR16
27614.099	3620.3061	13.	0.731	
27612.405	3620.5232	15.	0.487	
27611.008	3620.7114	42.	0.352	5,ORO
27608.230	3621.0758	270.	1.826	6,OP8;5,OR1
27605.170	3621.4772	13.	1.095	
27603.914	3621.6419	12.	0.487	
27602.043	3621.8274	12.	0.508	
27597.644	3622.4648	16.	0.730	
27595.240	3622.7804	86.	0.973	5,OR2
27593.691	3622.9837	14.	0.508	
27591.496	3623.2720	370.	1.094	7,OP12
27589.958	3623.4739	36.	0.729	11,1R15;5,OP1
27587.500	3623.7967	270.	1.094	8,OP15
27584.144	3624.2376	23.	0.972	
27581.307	3624.6105	15.	0.729	
27580.035	3624.7776	14.	0.607	
27576.463	3625.2472	14.	0.729	
27574.926	3625.4493	15.	0.486	
27573.457	3625.6424	113.	0.971	5,OR3
27571.727	3625.8699	13.	0.728	
27566.785	3626.5200	89.	0.728	10,R21
27565.804	3626.6490	60.	0.485	5,OP2
27564.908	3626.7670	38.	0.607	11,1P14
27562.323	3627.1070	23.	0.349	
27559.990	3627.4141	13.	0.849	
27557.803	3627.7020	57.	0.970	11,OR23

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
27554.843	3628.0917	12.	0.727	
27552.630	3628.3832	13.	0.843	
27547.454	3629.0649	13.	1.211	
27546.096	3629.2438	13.	0.484	6,OR10
27544.146	3629.5007	286.	1.090	
27542.259	3629.7495	213.	1.332	10,OP20;5,OR4
27538.486	3630.2468	62.	0.968	11,OP22
27536.651	3630.4886	128.	0.968	9,OR19
27534.627	3630.7556	15.	0.726	
27532.324	3631.0593	92.	0.963	5,OP3
27529.381	3631.4474	30.	0.847	
27525.709	3631.9318	20.	0.846	14,OP27
27521.135	3632.5355	286.	1.088	6,OP9
27519.659	3632.7304	21.	0.604	
27516.411	3633.1591	23.	0.604	
27515.618	3633.2639	21.	0.483	12,1P17
27514.605	3633.3977	16.	0.604	
27512.081	3633.7311	15.	0.604	
27510.485	3633.9418	15.	0.845	
27508.856	3634.1570	152.	0.845	12,OR25;9,OP18,
27507.566	3634.3274	38.	0.604	
27505.134	3634.6488	12.	0.604	
27502.432	3635.0058	161.	0.965	5,OR5
27500.556	3635.2539	14.	0.603	
27499.655	3635.3729	13.	0.483	
27497.705	3635.6308	243.	1.086	7,OR14
27495.964	3635.8610	41.	0.844	12,OP24
27493.879	3636.1367	13.	0.482	
27492.629	3636.3021	17.	0.844	
27489.762	3636.6813	106.	0.964	5,OP4
27487.740	3636.9488	16.	0.482	
27486.549	3637.1065	17.	0.603	
27484.934	3637.3202	21.	1.446	
27482.151	3637.6885	16.	0.482	
27481.026	3637.8375	14.	0.843	
27479.650	3638.0196	14.	0.602	
27477.940	3638.2460	14.	0.723	
27474.821	3638.6591	13.	0.602	
27473.630	3638.8167	12.	0.602	
27471.594	3639.0864	13.	0.481	
27469.624	3639.3474	379.	1.685	8,OR17;7,OP13
27467.737	3639.5975	12.	0.481	
27466.029	3639.8237	12.	0.481	
27464.739	3639.9948	15.	0.722	
27456.257	3641.1193	13.	0.601	
27455.332	3641.2419	13.	0.481	11,1R16
27453.163	3641.5296	198.	0.961	5,OR6
27449.783	3641.9781	316.	1.201	6,OR11
27445.365	3642.5644	13.	0.961	
27443.752	3642.7784	12.	0.841	
27442.189	3642.9860	21.	0.840	
27440.381	3643.2259	226.	1.080	8,OP16

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
27438.059	3543.5330	144.	1.080	5,0P5
27435.634	3543.8564	13.	0.960	
27432.816	3544.2307	12.	0.480	
27431.913	3544.3506	12.	0.480	
27430.728	3544.5081	12.	0.480	
27429.438	3544.6795	19.	0.840	11,1P15
27427.355	3544.9563	15.	0.480	
27426.507	3545.0689	16.	0.480	
27424.921	3545.2798	365.	1.199	6,0P10
27422.175	3545.6448	17.	0.713	
27419.577	3545.9902	14.	0.959	
27417.771	3546.2304	18.	0.719	
27415.893	3546.4801	14.	1.078	
27413.373	3546.8154	29.	0.838	13,OR27
27411.910	3547.0101	30.	0.838	13,OP26
27410.183	3547.2398	16.	0.599	
27408.952	3547.4037	17.	0.838	
27405.739	3547.8312	27.	0.718	
27403.678	3548.1056	14.	0.838	
27401.187	3548.4373	12.	1.077	
27394.817	3549.2856	190.	1.076	5,OR7
27391.893	3549.6753	14.	1.196	
27390.376	3549.8772	13.	0.598	
27388.402	3550.1405	15.	0.837	
27386.141	3550.4418	19.	0.598	
27384.945	3550.6013	15.	0.597	
27381.327	3551.0837	13.	0.836	
27379.559	3551.3194	82.	0.836	10,OR22
27377.420	3551.6047	198.	1.075	5,OP6
27375.888	3551.8090	16.	0.597	
27374.749	3551.9610	12.	0.478	
27372.342	3552.2821	17.	0.716	
27370.630	3552.5106	18.	1.074	
27368.597	3552.7819	211.	1.074	7,OR15
27365.852	3553.1483	122.	1.074	9,OR20
27363.363	3553.4806	16.	0.716	
27360.547	3553.8567	13.	0.596	
27359.416	3554.0078	13.	0.596	
27358.487	3554.1317	12.	0.477	
27356.618	3554.3814	22.	0.715	12,1P18
27354.839	3554.6191	94.	1.430	11,OR24;10,OP21
27348.919	3555.4102	13.	0.596	
27346.736	3555.7020	231.	1.191	6,OR12
27344.947	3555.9411	12.	0.476	
27342.674	3556.2451	14.	0.714	
27341.285	3556.4309	17.	0.833	
27339.197	3556.7101	306.	0.952	7,OP14

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
27337.575	3654.9270	136.	0.952	9,0P19
27335.976	3657.1410	53.	0.714	11,0P23
27334.836	3657.2935	16.	0.476	
27332.546	3657.6000	12.	1.190	
27330.781	3657.8362	12.	0.714	8,1R4
27329.626	3657.9908	13.	0.595	
27327.439	3658.2835	237.	1.070	5,0R8
27324.334	3658.6992	14.	0.832	
27322.561	3658.9367	12.	0.832	
27320.203	3659.2524	316.	1.070	6,0P11
27317.890	3659.5623	14.	0.594	8,0R18
27315.668	3659.8600	164.	1.069	
27313.374	3660.1674	13.	0.594	11,1R17
27311.873	3660.3686	17.	1.069	
27310.073	3660.6098	16.	0.594	
27307.779	3660.9173	202.	0.950	5,0P7
27303.402	3661.5042	21.	0.831	
27299.477	3662.0307	15.	1.424	
27293.968	3662.7699	13.	1.067	
27291.707	3663.0733	18.	1.541	8,1R5;12,0R26
27289.760	3663.3346	12.	0.474	
27288.399	3663.5173	33.	1.067	
27285.582	3663.8956	216.	1.185	8,0P17
27283.231	3664.2046	28.	0.829	14,0P28
27280.028	3664.6415	12.	0.474	
27278.026	3664.9106	37.	0.829	12,0P25
27275.063	3665.3086	14.	0.592	
27273.335	3665.5408	14.	0.710	
27270.355	3665.9414	38.	0.947	
27267.452	3666.3318	16.	0.828	
27265.291	3666.6223	13.	0.710	
27263.801	3666.8228	12.	0.710	
27260.192	3667.3082	12.	0.473	
27258.410	3667.5480	14.	0.591	
27256.506	3667.8042	13.	0.827	
27255.289	3667.9679	13.	0.473	
27254.006	3668.1406	15.	0.827	11,2R0
27251.096	3668.5324	256.	1.063	5,0R9;11,2R1
27248.422	3668.8923	15.	0.709	
27247.241	3669.0513	18.	0.472	
27246.292	3669.1792	18.	0.591	
27244.307	3669.4465	22.	0.708	8,1R6
27240.910	3669.9041	29.	0.708	4,0R0
27239.165	3670.1392	21.	0.826	11,2R2
27237.634	3670.3455	50.	0.826	4,0R1
27235.125	3670.6837	351.	0.944	6,0R13
27231.377	3671.1890	316.	1.062	7,0R16
27229.403	3671.4550	379.	0.943	5,0P8
27227.400	3671.7251	73.	1.297	
27225.154	3672.0280	119.	0.825	4,0R2
27222.278	3672.4160	43.	0.943	
27219.874	3672.7404	50.	0.707	4,0P1
27218.594	3672.9130	35.	0.589	11,2R3
27217.270	3673.0918	29.	0.589	
27214.458	3673.4713	140.	1.296	
27212.780	3673.6978	43.	0.707	
27211.433	3673.8797	33.	0.589	11,2P2
27210.338	3674.0275	27.	0.471	
27209.235	3674.1765	25.	0.706	
27206.958	3674.4839	499.	1.295	6,0P12

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT
				(v', v'', Branch J)
27233.545	3574.9452	134.	0.824	4,OR3
27200.699	3575.3294	395.	1.059	7,OP15
27197.673	3575.7324	17.	0.706	
27195.620	3576.0160	58.	0.941	4,OP2
27193.629	3576.2851	21.	0.705	
27192.217	3576.4760	13.	0.470	
27190.974	3576.6440	14.	0.705	
27189.451	3576.8499	39.	0.705	11,2R4
27187.477	3577.1170	120.	0.823	9,OR21
27185.147	3577.4322	75.	0.822	10,OR23
27183.659	3577.6335	13.	0.470	
27182.069	3577.8486	13.	0.587	
27179.940	3578.1367	18.	0.470	11,2P3
27178.478	3578.3345	32.	1.057	13,OP27;13,OR28
27176.903	3578.5477	14.	0.704	
27174.256	3578.9060	18.	0.587	
27172.640	3579.1248	130.	0.939	4,OR4
27170.263	3579.4467	13.	0.587	8,1P6
27169.070	3579.6083	12.	0.469	
27167.410	3579.8332	24.	0.938	
27165.813	3580.0494	271.	0.938	5,OR10
27164.126	3580.2780	13.	0.704	
27162.248	3580.5324	73.	0.704	4,OP3;11,1R18
27160.871	3580.7191	112.	0.938	
27159.135	3580.9544	156.	0.938	10,OP22
27155.253	3581.4806	12.	0.469	9,OP20
27153.677	3581.6943	170.	1.055	
27151.396	3582.0035	46.	1.172	8,OR19
27148.795	3582.3563	14.	1.171	11,2R5
27147.304	3582.5586	13.	0.703	
27146.093	3582.7229	13.	0.585	
27144.421	3582.9497	48.	0.820	11,OR25
27142.108	3583.2635	279.	1.054	5,OP9
27139.688	3583.5920	17.	0.702	11,2P4
27137.337	3583.9111	15.	0.819	
27135.396	3584.1746	17.	0.585	11,1P17
27134.078	3584.3536	39.	0.819	
27132.545	3584.5617	164.	1.053	4,OR5
27128.467	3585.1157	15.	0.585	
27126.568	3585.3736	58.	0.935	11,OP24
27125.008	3585.5856	14.	0.584	
27122.265	3585.8633	256.	1.169	8,OP18
27119.639	3586.3153	89.	0.815	4,OP4
27114.924	3586.9563	243.	0.934	6,OR14
27112.241	3587.3212	15.	0.467	
27110.999	3587.4901	17.	0.817	
27105.027	3588.3026	26.	1.400	11,2R6
27102.723	3588.6161	16.	1.283	8,1P7
27099.011	3589.1213	22.	0.933	
27096.279	3589.4933	18.	0.700	
27093.807	3589.8300	18.	0.816	
27092.353	3590.0280	12.	0.466	
27091.050	3590.2055	23.	0.816	11,2P5
27088.749	3590.5190	16.	0.932	
27085.556	3590.9540	451.	1.747	7,OR17;6,OP13
27083.418	3591.2455	128.	0.932	4,OR6
27081.126	3591.5578	13.	1.048	
27079.085	3591.8361	15.	0.582	
27076.605	3592.1742	14.	0.815	
27073.517	3592.5954	18.	0.582	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT
				(v', v'', Branch J)
27071.872	3692.8195	271.	1.047	5,OR11
27070.418	3693.0131	18.	0.582	
27068.074	3693.3330	123.	1.047	4,OP5
27066.001	3693.6228	23.	1.512	
27062.725	3694.0650	48.	0.698	
27061.590	3694.2229	21.	0.581	
27059.582	3694.4971	15.	0.697	
27057.781	3694.7430	16.	0.697	
27055.796	3695.0141	13.	0.581	
27054.071	3695.2496	279.	1.510	12,OP26;7,OP16
27050.166	3695.7831	35.	1.161	11,2R7;8,1R9
27048.375	3696.0278	13.	0.581	
27046.196	3696.3256	339.	1.045	5,OP10
27043.240	3696.7296	17.	0.929	
27041.383	3696.9836	13.	1.277	
27038.176	3697.4220	12.	0.464	
27036.158	3697.6980	19.	0.580	
27035.112	3697.8411	27.	0.812	
27033.931	3698.0026	23.	0.580	14,OP29;11,2P6
27031.733	3698.3033	12.	0.464	
27030.190	3698.5144	12.	0.464	
27028.866	3698.6956	14.	0.580	
27027.395	3698.8969	14.	0.464	8,1P
27026.420	3699.0304	17.	0.464	
27025.168	3699.2018	144.	0.927	4,OR7
27020.591	3699.8283	13.	0.463	
27018.986	3700.0482	24.	0.811	
27014.942	3700.6020	16.	0.579	
27013.786	3700.7605	17.	0.579	
27012.069	3700.9957	18.	1.158	
27007.526	3701.6182	140.	0.926	4,OP6
27005.132	3701.9463	30.	0.810	
27003.551	3702.1632	23.	0.694	
27001.752	3702.4098	120.	0.925	7,11R1;9,OR22
27000.041	3702.6444	13.	0.694	
26993.890	3703.4881	12.	0.694	
26992.493	3703.6798	14.	0.693	
26991.293	3703.8445	14.	0.462	
26989.800	3704.0494	33.	1.155	7,1R2
26986.575	3704.4921	236.	1.386	11,2R8;6,OR15
26983.843	3704.8671	243.	1.155	10,OR24;8,OR20
26978.637	3705.5821	24.	0.923	
26976.992	3705.8080	15.	0.577	11,1P18
26976.049	3705.9375	14.	0.577	
26973.370	3706.3057	138.	0.923	9,OP21
26969.087	3706.8943	263.	0.923	7,1R3;5,OR12
26967.732	3707.0805	44.	0.692	11,2P7;8,1R10
26966.493	3707.2509	15.	0.577	
26964.818	3707.4812	12.	0.461	
26963.923	3707.6042	12.	0.461	
26962.660	3707.7779	12.	0.461	
26961.673	3707.9136	16.	0.461	
26960.007	3708.1428	83.	0.807	7,1P2;10,OP23
26957.911	3708.4311	151.	1.037	4,OR8
26955.459	3708.7654	379.	1.152	6,OP14
26952.734	3709.1433	231.	0.921	8,OP19
26949.388	3709.6040	12.	0.691	
26943.322	3710.4392	23.	0.921	8,1P9
26941.635	3710.6715	306.	1.035	5,OP11
26939.546	3710.9592	76.	0.920	7,1R4;13,OP28

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26935.021	3711.1693	164.	0.805	4,0P7
26936.694	3711.3521	24.	0.460	13,0R29
26935.734	3711.4775	24.	0.590	
26934.292	3711.6831	15.	0.590	
26932.421	3711.9410	176.	1.035	7,0R18
26930.950	3712.1396	14.	0.460	
26929.578	3712.3329	27.	0.690	7,1P3
26927.376	3712.6365	42.	0.804	11,0R26
26924.535	3713.0282	12.	0.460	
26923.525	3713.1675	16.	0.460	
26922.437	3713.3176	18.	0.589	
26915.258	3714.3080	40.	0.804	11,2R9
26913.509	3714.5494	14.	0.574	
26912.454	3714.6951	13.	0.574	
26910.586	3714.9529	52.	0.803	11,0P25
26908.384	3715.2569	21.	0.802	
26906.434	3715.5262	22.	0.688	
26904.636	3715.7746	16.	0.688	
26902.858	3716.0201	13.	0.583	
26901.331	3716.2310	42.	0.573	7,1R5
26900.017	3716.4126	256.	0.917	7,0P17
26897.284	3716.7902	12.	0.802	
26894.440	3717.1832	26.	0.688	11,2P8
26892.632	3717.4332	12.	0.453	
26891.503	3717.5891	16.	0.687	
26889.472	3717.8700	12.	0.573	
26887.425	3718.1531	26.	0.687	7,1P4
26885.698	3718.3919	13.	0.453	
26883.846	3718.6481	21.	0.687	3,0R0
26881.728	3718.9411	146.	0.801	4,0R9
26880.533	3719.1064	32.	0.572	3,0R1
26879.158	3719.2967	18.	0.572	
26877.235	3719.5628	38.	0.801	8,1R11
26874.544	3719.9352	211.	1.030	
26873.152	3720.1279	38.	0.572	
26870.983	3720.4282	33.	0.457	
26867.933	3720.8505	231.	4.688	3,0,R2
26862.898	3721.5480	35.	0.800	3,0,P1
26859.674	3721.9947	198.	0.914	4,0P8
26857.594	3722.2830	221.	0.914	5,0R13
26855.850	3722.5246	23.	1.256	
26854.117	3722.7650	59.	0.799	7,1R6
26851.590	3723.1153	14.	0.457	
26849.403	3723.4186	176.	0.799	6,0R16
26847.731	3723.6504	14.	0.457	10,2R1
26846.489	3723.8227	50.	0.799	
26844.702	3724.0706	27.	0.685	10,2R2
26843.397	3724.2517	15.	0.570	
26842.376	3724.3933	15.	0.570	
26841.060	3724.5759	14.	0.456	
26839.791	3724.7520	17.	0.798	
26838.621	3724.9144	30.	0.570	3,0,P2
26837.614	3725.0541	35.	0.570	7,1P5
26835.114	3725.4012	47.	0.798	11,2R10
26833.569	3725.6157	16.	0.684	
26832.428	3725.7741	14.	0.570	
26830.356	3726.0618	38.	0.798	
26828.699	3726.2921	279.	1.026	5,0P12
26827.135	3726.5093	13.	0.684	
26824.447	3726.8827	35.	0.911	10,2R3

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v", Branch J)
26822.716	3727.1233	33.	1.025	
26820.871	3727.3796	12.	0.563	
26819.159	3727.6176	23.	0.797	
26817.534	3727.8435	327.	0.911	6,0P15
26815.595	3728.1130	99.	0.911	3,0,R4;10,2P2
26812.367	3728.5618	31.	0.683	11,2P9
26811.180	3728.7269	15.	0.569	11,1P19
26808.771	3729.0620	87.	0.796	9,0R23
26806.634	3729.3592	122.	0.796	8,0R21
26805.129	3729.5687	43.	0.682	3,0,P3
26803.514	3729.7934	26.	0.682	
26802.223	3729.9731	26.	0.563	
26800.912	3730.1555	27.	0.582	
26798.302	3730.5188	68.	0.796	7,1R7
26796.566	3730.7605	140.	0.682	4,0R10
26795.630	3730.8908	54.	0.682	10,2R4
26792.931	3731.2666	18.	0.682	
26789.588	3731.7323	21.	0.795	
26787.526	3732.0196	15.	0.681	
26785.389	3732.3173	33.	1.135	10,2P3
26782.287	3732.7496	14.	1.021	
26780.624	3732.9814	125.	0.908	9,0P22
26779.368	3733.1565	40.	0.454	7,1P6
26778.248	3733.3126	44.	0.681	8,1R12
26775.336	3733.7186	412.	1.361	10,0R25;3,0,R5;8,0P20
26772.535	3734.1094	216.	0.907	4,0P9
26770.998	3734.3237	153.	0.794	7,0R19
26767.062	3734.8728	51.	1.020	
26762.638	3735.4903	48.	0.906	3,0P4
26761.211	3735.6895	17.	0.680	
26759.615	3735.9123	12.	0.453	
26758.346	3736.0895	47.	0.906	10,2R5
26755.480	3736.4896	12.	0.679	
26753.696	3736.7388	16.	0.565	
26752.327	3736.9300	74.	0.792	10,0P24
26750.819	3737.1408	70.	0.905	
26749.448	3737.3323	18.	0.566	8,1P11
26746.785	3737.7043	46.	0.679	11,2R11
26745.226	3737.9222	33.	0.905	10,2P4
26742.874	3738.2510	16.	0.679	
26740.854	3738.5334	15.	0.905	
26739.665	3738.8996	18.	0.565	
26737.850	3738.9534	226.	1.470	7,0P18;5,0R14
26733.831	3739.5155	91.	1.017	7,1R8
26731.714	3739.8117	15.	0.565	
26729.923	3740.0616	14.	0.578	
26727.987	3740.3332	16.	0.578	
26726.435	3740.5504	65.	0.791	3,0R6
26723.165	3741.0081	26.	0.565	
26722.020	3741.1685	34.	0.677	11,2P10
26720.067	3741.4418	13.	0.564	
26718.898	3741.6056	21.	0.677	13,3R3
26716.587	3741.9292	18.	0.677	
26715.638	3742.0621	13.	0.451	
26714.388	3742.2373	17.	0.677	
26712.474	3742.5055	102.	0.902	10,2R6;7,1P7
26711.020	3742.7091	73.	0.790	3,0P5
26708.817	3743.0178	15.	0.677	
26707.346	3743.2239	272.	1.015	5,0P13
26704.333	3743.6464	169.	1.353	11,0R27;6,0R17

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26702.434	3743.9126	129.	0.302	4,0R11
26700.024	3744.2505	15.	0.789	
26696.823	3744.6994	37.	0.789	10,2P5
26694.042	3745.0897	66.	1.014	13,0P29
26690.637	3745.5674	65.	1.013	
26689.026	3745.7934	23.	0.450	13,0R30
26688.265	3745.9003	52.	0.675	11,0P26
26686.997	3746.0783	23.	0.563	
26685.817	3746.2440	14.	0.563	
26682.937	3746.6484	52.	1.238	
26681.297	3746.8786	22.	0.788	13,3P3
26679.257	3747.1651	17.	0.562	
26678.222	3747.3105	15.	0.675	4,0P10
26676.684	3747.5265	185.	1.012	
26671.488	3748.2567	281.	1.461	8,1R13;6,0P16
26668.178	3748.7219	76.	0.787	3,0R7
26666.533	3748.9531	32.	1.011	
26662.689	3749.4936	31.	0.786	
26660.769	3749.7636	104.	0.786	7,1R9
26658.293	3750.1120	70.	0.898	10,2R7
26656.402	3750.3780	12.	0.674	
26654.734	3750.6126	32.	0.673	
26653.641	3750.7665	27.	0.561	13,3R5
26650.434	3751.2178	143.	1.010	3,0P6,11,2R12
26648.090	3751.5478	13.	0.561	
26647.248	3751.6663	12.	0.449	
26645.163	3751.9600	26.	0.897	
26643.706	3752.1651	15.	0.561	
26642.422	3752.3460	24.	0.673	13,3P4
26640.131	3752.6686	67.	1.009	10,2P6;8,1P12
26638.418	3752.9100	13.	0.448	
26636.953	3753.1164	58.	0.672	7,1P8
26635.830	3753.2746	31.	0.560	
26633.154	3753.6517	15.	0.560	
26631.374	3753.9027	23.	0.672	
26629.525	3754.1634	16.	0.672	
26628.251	3754.3430	14.	0.560	
26625.997	3754.6608	17.	0.672	
26623.805	3754.9699	46.	0.784	11,2P11
26621.867	3755.2433	133.	0.895	8,0R22
26619.712	3755.5472	12.	0.560	
26617.730	3755.8269	29.	0.671	6,1R0
26616.173	3756.0466	32.	0.671	
26614.766	3756.2452	59.	0.895	6,1R1
26612.911	3756.5070	19.	0.783	
26611.350	3756.7260	17.	0.783	
26608.918	3757.0708	238.	1.453	9,0R24;5,0R15
26606.149	3757.4618	16.	0.559	
26604.944	3757.6320	15.	0.559	
26603.112	3757.8907	87.	0.670	6,1R2
26601.986	3758.0498	193.	0.559	7,0R20
26600.790	3758.2188	112.	0.559	3,0R8
26599.575	3758.3905	175.	0.782	4,0R12
26597.234	3758.7213	30.	0.670	6,1P1
26595.393	3758.9815	106.	1.117	10,2R8
26592.585	3759.3784	23.	0.447	
26591.856	3759.4815	46.	0.670	
26590.415	3759.6852	244.	0.893	8,0P21
26588.444	3759.9640	28.	0.781	
26586.028	3760.3056	47.	0.781	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26554.341	3760.5443	27.	1.115	
26552.545	3760.7943	136.	0.781	6,1R3
26580.934	3761.0263	579.	1.004	9,0P23;3,0P7
26579.249	3761.2647	226.	0.892	7,1R10
26577.585	3761.4860	617.	1.003	5,0P14
26575.026	3761.8623	81.	0.569	10,2P7
26573.727	3762.0463	53.	0.569	6,1P2
26572.267	3762.2530	356.	0.892	4,0P11
26570.272	3762.5356	34.	0.569	
26568.697	3762.7585	463.	1.003	7,0P19
26566.713	3763.0395	18.	0.557	
26564.877	3763.2996	54.	0.780	
26563.201	3763.5370	15.	0.557	
26561.435	3763.7873	26.	0.557	
26560.186	3763.9643	88.	0.568	10,0R26
26558.739	3764.1693	17.	0.890	
26555.883	3764.5742	111.	0.568	8,1R14
26555.058	3764.6912	55.	0.556	13,3R7
26553.070	3764.9731	514.	1.001	7,1P9;6,1R4
26551.261	3765.2296	281.	1.112	6,0R18
26549.269	3765.5120	18.	0.890	
26547.279	3765.7944	61.	1.112	
26545.758	3766.0102	99.	0.778	11,2R13
26544.074	3766.2491	19.	0.567	
26541.587	3766.6019	99.	0.567	6,1P3
26540.648	3766.7353	66.	0.556	
26539.441	3766.9066	50.	0.567	13,3P6
26538.039	3767.1056	125.	0.567	10,0P25
26536.266	3767.3573	36.	0.567	
26534.413	3767.6203	18.	0.566	
26533.262	3767.7838	16.	0.555	
26531.897	3767.9776	15.	0.566	
26530.893	3768.1203	15.	0.444	
26529.653	3768.2964	24.	0.777	
26528.228	3768.4988	44.	0.777	
26526.025	3768.8118	31.	0.777	
26524.556	3769.0205	421.	0.388	3,0R9;10,2R9
26523.283	3769.2014	45.	0.555	8,1P23
26521.824	3769.4087	23.	0.566	
26520.642	3769.5768	21.	0.555	
26519.449	3769.7464	57.	0.776	
26517.674	3769.9987	421.	1.220	11,2P12;6,0P17
26514.983	3770.3813	156.	0.887	6,1R5
26513.185	3770.5370	19.	0.554	
26512.061	3770.7968	19.	0.554	
26510.390	3771.0346	19.	0.443	
26509.717	3771.1302	23.	0.443	
26508.678	3771.2782	28.	0.554	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT:	
				(v', v'', Branch J)	
26493.311	3773.4656	76.	1.082	13,3R8	
26491.613	3773.7075	25.	0.433		
26490.277	3773.8978	35.	0.433		
26489.255	3774.0434	296.	0.649	7,1R11	
26488.064	3774.2131	258.	0.649	4,0R13	
26486.756	3774.3996	34.	0.649		
26485.525	3774.5750	33.	0.649		
26481.917	3775.0893	28.	0.757		
26480.760	3775.2542	64.	0.432		
26480.031	3775.3580	258.	0.649		
26478.353	3775.5973	30.	0.649		
26475.646	3775.9834	208.	0.865		
26473.993	3776.2191	93.	0.648	11,0R28	
26472.398	3776.4467	543.	0.972	5,0R16	
26470.538	3776.7121	26.	0.540		
26468.147	3777.0532	889.	0.972	6,1R6	
26466.241	3777.3253	30.	0.432		
26465.211	3777.4723	60.	0.756		
26463.610	3777.7008	41.	0.648	9,2R0	
26462.158	3777.9081	41.	0.648		
26460.817	3778.0996	349.	0.755	7,1P10;9,2R1	
26459.307	3778.3151	889.	0.971	11,0P27;4,0P12	
26456.997	3778.6452	22.	0.539		
26455.696	3778.8309	23.	0.755		
26454.262	3779.0357	21.	0.971		
26450.968	3779.5063	258.	0.863	6,1P5	
26449.183	3779.7614	114.	1.186	9,2R2	
26447.470	3780.0063	22.	0.431		
26445.327	3780.3126	213.	0.754	10,2R10	
26443.696	3780.5458	40.	0.539	9,2P1	
26442.315	3780.7433	46.	1.077	13,0P30	
26440.021	3781.0713	815.	0.754	5,0P15	
26438.998	3781.2176	148.	0.539	3,0 R10	
26437.613	3781.4156	66.	0.969		
26435.296	3781.7471	64.	1.077		
26433.427	3782.0145	158.	0.646	11,2R14	
26432.336	3782.1706	178.	0.646	8,1R15	
26429.712	3782.5461	306.	1.184	8,0R23;9,2R3	
26427.891	3782.8068	83.	0.646		
26425.314	3783.1756	272.	0.968	7,0R21	
26423.647	3783.4143	63.	0.538	13,3R9	
26422.472	3783.5826	59.	0.968		

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26421.004	3783.7928	58.	0.535	9,2P2
26420.129	3783.9182	146.	0.753	10,2P9
26417.945	3784.2309	33.	0.753	
26415.347	3784.6031	222.	0.967	3,0P9
26412.719	3784.9797	1396.	0.860	6,1R7
26409.558	3785.4328	37.	0.859	
26407.625	3785.7099	28.	1.182	
26406.198	3785.9144	23.	0.537	
26403.735	3786.2677	163.	1.181	11,2P13
26401.439	3786.5968	188.	1.396	9,0R25;9,2R4
26399.483	3786.8774	87.	0.537	
26398.552	3787.0111	752.	0.751	8,1P14;8,0P22
26395.975	3787.3807	34.	1.288	
26392.900	3787.8220	376.	0.536	6,1P6
26391.866	3787.9704	543.	0.429	7,0P20
26390.653	3788.1445	543.	0.858	7,1R12;6,0R19
26389.646	3788.2891	110.	0.536	
26387.561	3788.5885	37.	0.643	9,2P3
26386.145	3788.7918	66.	0.750	
26384.579	3789.0167	23.	0.536	
26382.494	3789.3161	25.	0.965	
26380.979	3789.5338	22.	0.557	
26379.171	3789.7935	23.	1.179	
26377.469	3790.0379	22.	1.071	
26375.995	3790.2498	29.	0.536	
26374.537	3790.4593	251.	0.857	9,0P24
26373.039	3790.6746	24.	0.425	
26371.173	3790.9429	75.	0.749	
26369.849	3791.1332	31.	0.535	
26367.848	3791.4208	258.	1.391	4,0R14
26364.265	3791.9361	251.	0.963	9,2R5
26361.446	3792.3417	43.	0.423	
26360.383	3792.4946	222.	0.749	7,1P11
26357.925	3792.8483	239.	0.856	10,2R11
26356.289	3793.0837	815.	0.855	6,0P18
26353.934	3793.4227	36.	0.855	
26352.282	3793.6605	61.	0.748	
26350.094	3793.9755	258.	0.748	9,2P4
26348.585	3794.1929	1396.	0.748	6,1R8
26343.541	3794.9194	5770.	7.690	
26338.229	3795.6847	611.	1.281	10,0R27;4,0P13
26335.167	3796.1260	51.	0.427	
26333.279	3796.3982	43.	0.554	
26331.775	3796.6150	148.	0.747	
26330.541	3796.7931	288.	0.540	10,2P10
26327.637	3797.2119	489.	0.853	5,0R17
26326.176	3797.4226	611.	0.746	6,1P7
26325.154	3797.5699	64.	0.427	
26324.105	3797.7213	63.	0.540	13,3P9
26322.634	3797.9336	57.	0.746	
26319.330	3798.4104	288.	1.492	3,0P10;9,2R6
26317.405	3798.6882	181.	0.852	10,0P26
26315.930	3798.9010	41.	0.639	
26314.502	3799.1072	48.	0.746	
26313.140	3799.3038	172.	0.746	11,2R15
26310.553	3799.6775	79.	0.639	
26309.221	3799.8698	34.	0.532	
26307.802	3800.0748	35.	0.745	
26306.153	3800.3130	84.	0.852	
26304.142	3800.6036	42.	0.532	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26302.829	3800.7729	87.	0.639	9,2P5
26302.075	3800.9023	166.	0.426	
26301.065	3801.0453	306.	0.745	
26299.117	3801.3237	26.	0.532	8,1R16
26298.272	3801.4513	26.	0.532	
26296.976	3801.6393	27.	0.745	
26295.750	3801.8165	26.	0.633	5,0P16
26294.192	3802.0418	575.	1.063	
26292.434	3802.2960	47.	0.638	
26291.172	3802.4786	44.	0.633	
26289.335	3802.7443	31.	0.638	7,1R13
26287.144	3803.0612	53.	0.638	
26286.067	3803.2171	41.	0.531	
26284.457	3803.4500	515.	0.744	
26283.449	3803.5959	91.	0.637	11,2P14
26281.816	3803.8322	113.	0.850	
26279.291	3804.1977	22.	0.956	
26277.677	3804.4314	35.	0.743	6,1R9
26275.909	3804.6874	1086.	1.062	
26274.357	3804.9120	37.	0.637	
26272.466	3805.1860	23.	0.955	9,2R7;8,1P15
26271.330	3805.3505	22.	0.424	
26270.199	3805.5143	31.	0.637	
26268.705	3805.7308	22.	0.630	
26267.720	3805.8735	23.	0.530	10,2R12
26266.296	3806.0798	98.	0.849	
26265.175	3806.2423	326.	0.742	
26263.981	3806.4154	28.	0.424	13,3R11
26262.614	3806.6134	233.	0.742	
26261.533	3806.7629	120.	0.636	
26259.817	3807.0189	96.	0.954	7,1P12
26257.299	3807.3840	29.	0.636	
26256.264	3807.5341	23.	0.424	
26253.417	3807.9470	134.	0.954	6,1P8
26252.027	3808.1486	264.	0.530	
26250.845	3808.3201	489.	0.741	
26249.613	3808.4288	25.	0.424	9,2P6
26248.297	3808.6898	24.	0.953	
26245.686	3809.0687	245.	0.847	
26244.277	3809.2733	103.	0.635	3,0R12;7,0R22
26243.204	3809.4290	28.	0.423	
26241.463	3809.6817	391.	1.376	
26239.559	3809.9582	188.	0.741	4,0R15
26237.862	3810.2046	163.	0.846	
26236.359	3810.4229	74.	0.635	
26234.868	3810.6394	166.	0.952	5,1R1
26233.157	3810.8879	208.	0.740	
26230.976	3811.2048	178.	0.846	
26229.339	3811.4427	21.	0.634	11,0P28
26227.451	3811.7171	43.	0.634	
26225.071	3812.0630	131.	0.740	
26223.250	3812.3278	337.	0.951	5,1R2
26221.746	3812.5464	425.	0.740	
26220.104	3812.7852	69.	0.845	
26218.796	3812.9753	31.	0.634	5,0P1
26217.179	3813.2105	69.	0.739	
26215.133	3813.5082	213.	1.056	
26213.417	3813.7579	21.	0.739	3,0P11
26211.371	3814.0556	25.	0.633	
26208.168	3814.5216	575.	1.477	

(7,0)P21;4,0P14

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
26206.591	3814.7512	55.	0.533	
26204.365	3815.0753	29.	0.422	
26202.949	3815.2814	815.	1.265	5,1R3;9,2R8
26200.080	3815.6993	316.	0.738	8,0P23
26198.081	3815.9904	32.	0.527	
26194.857	3816.4600	1396.	0.942	6,1R10
26193.658	3816.6333	151.	0.632	5,1P2
26192.046	3816.8696	22.	0.543	
26190.705	3817.0650	22.	0.527	
26189.626	3817.2224	27.	0.421	
26188.276	3817.4191	114.	0.527	9,0R26
26187.152	3817.5830	444.	0.543	6,0P19
26185.351	3817.8455	161.	1.053	11,2R16
26183.292	3818.1458	118.	0.737	
26182.201	3818.3049	36.	0.421	
26180.936	3818.4894	239.	0.842	9,2P7
26179.466	3818.7039	30.	0.526	
26176.882	3819.0808	28.	0.631	
26175.464	3819.2877	40.	0.421	
26174.639	3819.4081	200.	0.631	5,0R18
26173.511	3819.5728	652.	0.736	5,1R4
26172.159	3819.7700	53.	0.526	
26171.284	3819.8977	40.	0.526	
26169.538	3820.1453	652.	1.262	7,1R14
26167.454	3820.4569	1396.	1.051	6,1P9
26165.770	3820.7027	64.	0.631	13,3R12
26164.086	3820.9486	26.	0.420	
26162.139	3821.2330	977.	1.997	8,1R17;5,1P3;9,0P25
26159.012	3821.6898	228.	0.946	10,2R13
26156.466	3822.0618	21.	0.420	
26155.550	3822.1957	26.	0.525	
26154.447	3822.3568	33.	0.630	
26152.635	3822.6129	109.	0.735	11,2P15
26151.623	3822.7696	63.	0.525	
26150.557	3822.9255	41.	0.525	
26149.619	3823.0625	26.	0.420	
26148.593	3823.2125	26.	0.525	
26147.733	3823.3383	25.	0.525	
26146.288	3823.5497	124.	0.735	
26143.717	3823.9256	33.	0.525	
26142.654	3824.0811	40.	0.734	
26140.618	3824.3790	652.	1.252	5,0P17
26138.388	3824.7053	37.	0.629	
26137.050	3824.9011	44.	0.629	
26135.596	3825.1140	3257.	1.153	7,1P13;5,1R5
26134.125	3825.3292	32.	0.419	
26132.932	3825.5038	349.	0.734	9,2R9
26131.728	3825.6801	82.	0.629	
26130.067	3825.9232	138.	1.153	3,0R13
26127.818	3826.2526	222.	0.838	10,2P12
26125.584	3826.5798	87.	0.733	8,1P16
26122.989	3826.9599	34.	1.257	
26120.811	3827.2790	444.	0.942	5,1P4
26118.049	3827.6838	28.	0.419	
26117.090	3827.8243	29.	0.623	
26115.652	3828.0351	22.	0.523	
26114.567	3828.1941	28.	0.623	
26113.057	3828.4155	43.	0.732	
26111.929	3828.5809	23.	0.418	
26110.593	3828.7768	100.	0.837	10,0R28

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
26108.223	3529.1244	376.	1.046	9,2P8
26105.163	3529.5732	2443.	1.150	6,1R11
26102.346	3529.9855	175.	1.353	4,0R16;3,0P12
26100.740	3530.2223	55.	0.627	
26097.557	3530.6894	57.	0.627	
26096.484	3530.8469	50.	0.627	
26094.810	3531.0927	59.	0.836	
26091.593	3531.5651	35.	0.522	
26090.553	3531.7163	120.	0.731	10,0P27
26088.867	3531.9654	1086.	1.357	5,1R6
26085.441	3532.4687	44.	0.835	
26084.055	3532.6723	25.	0.522	
26082.964	3532.8326	37.	0.522	
26081.583	3533.0355	158.	1.043	
26079.650	3533.3197	23.	0.522	
26078.309	3533.5168	25.	0.626	
26077.495	3533.6365	23.	0.417	
26075.484	3533.9322	752.	1.251	6,1P10
26073.453	3534.2309	39.	0.521	
26072.432	3534.3810	54.	0.417	
26071.434	3534.5277	543.	0.625	5,1P5
26070.541	3534.6592	326.	0.625	4,0P15
26069.188	3534.8582	56.	0.625	
26068.188	3535.0052	30.	0.417	8,2R0
26066.445	3535.2617	65.	0.729	8,2R1
26063.530	3535.6907	977.	1.979	
26060.896	3536.0783	38.	0.625	
26058.118	3536.4873	31.	0.833	
26056.342	3536.7488	60.	0.625	
26055.313	3536.9002	85.	0.520	8,2R2
26054.293	3537.0505	296.	0.833	9,2R10
26051.903	3537.4026	25.	0.624	
26050.127	3537.6642	376.	1.040	11,2R17;7,0R23;8,2P1
26047.876	3537.9958	196.	0.624	10,2R14
26046.940	3538.1338	698.	0.728	7,1R15
26045.456	3538.3524	251.	0.832	6,0R21
26043.771	3538.6008	34.	0.624	
26042.005	3538.8611	21.	0.416	
26040.976	3539.0128	23.	0.624	
26039.590	3539.2171	72.	0.831	
26037.467	3539.5302	82.	0.935	13,3P12
26035.603	3539.8051	140.	0.831	8,2R3
26033.779	3540.0742	2443.	1.143	5,1R7
26030.885	3540.5011	38.	1.246	
26029.135	3540.7592	26.	0.623	
26026.903	3541.0886	296.	1.557	9,2P9;8,2P2
26025.187	3541.3419	134.	0.623	8,0R25
26024.114	3541.5003	27.	0.415	
26022.565	3541.7290	33.	0.623	
26021.290	3541.9173	32.	0.726	
26019.973	3542.1116	23.	0.622	
26019.155	3542.2325	22.	0.415	
26017.139	3542.5302	376.	1.141	7,0P22
26015.708	3542.7416	326.	0.622	8,1R18;11,2P16
26014.713	3542.8885	208.	0.518	10,2P13
26013.402	3543.0822	2443.	1.037	5,1P6;5,0R19
26010.994	3543.4350	1222.	1.244	5,1P14;6,0P20
26009.291	3543.6896	91.	0.726	(3,0)R14
26007.349	3543.9767	2443.	1.244	6,1R12;8,2R4
26005.391	3544.2662	23.	1.036	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
26002.594	3844.6797	45.	0.725
26000.662	3844.9653	22.	0.518
25999.578	3845.1256	22.	0.621
25998.361	3845.3076	21.	0.518
25997.126	3845.4894	61.	0.725
25995.686	3845.7013	113.	0.828
25994.631	3845.8574	264.	0.725
25993.233	3846.0642	29.	0.517
25991.929	3846.2572	57.	0.828
25989.934	3846.5525	29.	1.035
25988.513	3846.7628	25.	0.517
25984.579	3847.3452	74.	0.724
25983.190	3847.5508	29.	0.724
25981.719	3847.7687	31.	0.620
25980.486	3847.9513	158.	0.620
25979.177	3848.1452	316.	0.930
25977.794	3848.3501	115.	0.723
25976.694	3848.5130	34.	0.413
25975.633	3848.6702	1086.	0.827
25974.461	3848.8440	89.	0.620
25972.866	3849.0803	83.	0.826
25971.159	3849.3333	239.	0.723
25969.832	3849.5299	4885.	0.826
25967.928	3849.8123	407.	0.929
25966.421	3850.0357	39.	0.723
25964.269	3850.3548	20.	0.826
25962.604	3850.6017	56.	0.826
25961.039	3850.8339	12.	0.826
25959.468	3851.0668	34.	0.722
25957.622	3851.3407	158.	1.238
25955.845	3851.6044	121.	0.722
25954.536	3851.7987	49.	0.825
25951.921	3852.1268	43.	0.825
25950.356	3852.4191	24.	0.519
25949.034	3852.6080	26.	0.515
25948.026	3852.7651	43.	0.515
25946.767	3852.9521	1222.	1.031
25942.501	3853.5856	166.	0.618
25941.103	3853.7933	76.	1.133
25938.315	3854.2075	575.	1.133
25936.317	3854.5045	40.	1.441
25934.566	3854.7647	22.	0.721
25933.593	3854.9093	12.	0.412
25931.322	3855.2470	21.	0.515
25930.082	3855.4314	30.	0.515
25928.826	3855.6180	200.	0.720
25927.957	3855.7473	59.	0.412
25926.401	3855.9787	181.	1.234
25924.824	3856.2133	238.	0.720
25923.401	3856.4249	54.	1.028
25921.779	3856.6663	57.	0.720
25920.546	3856.8497	13.	0.411
25916.475	3857.4556	652.	1.028
25913.988	3857.8258	30.	0.925
25912.117	3858.1044	103.	0.719
25911.059	3858.2619	37.	0.411
25910.050	3858.4121	46.	0.719
25908.186	3858.6897	306.	0.822
25906.911	3858.8797	148.	0.616
25905.609	3859.0736	23.	0.513

11,0R30;8,2P3
8,0P24

11,0P29

3,0P13
5,0P18
8,1P17

6,1P11

8,2R5
5,1R8
9,0R27;9,2R11

4,0R17

8,2P4
13,3R14

5,1P7
9,0P26

9,2P10

10,2R18

8,2R6;13,3P13
4,0P16

7,1R16

8,2P5
11,2R18

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
25903.608	3559.3717	43.	0.615	6,1R13
25901.287	3559.7176	3257.	0.924	
25899.925	3559.9205	228.	0.715	
25898.734	3560.0921	62.	0.513	5,1R9 10,2P14
25897.424	3560.2933	9770.	1.026	
25894.115	3560.7866	233.	1.026	
25891.786	3561.1339	34.	0.820	
25889.054	3561.5413	59.	0.923	
25886.049	3561.9897	24.	0.512	
25885.153	3562.1234	25.	0.717	
25884.006	3562.2946	12.	0.512	
25882.559	3562.5104	27.	0.512	
25880.266	3562.8526	69.	0.615	3,0R15
25879.106	3563.0259	362.	0.717	7,1P15
25877.735	3563.2305	158.	0.717	10,0R29
25876.531	3563.4102	88.	0.614	
25875.214	3563.6069	70.	0.717	
25873.935	3563.7979	75.	0.512	9,2R12 11,2P17;5,1P8;8,2R7
25873.159	3563.9137	444.	0.717	
25871.757	3564.1232	1954.	1.024	
25870.338	3564.3352	36.	0.614	4,1R0;6,1P12 4,1R1
25868.938	3564.5443	33.	0.512	
25867.527	3564.7550	1954.	1.023	
25864.817	3565.1600	326.	0.921	8,1R19;6,0R20
25863.224	3565.3981	38.	0.409	
25861.579	3565.6439	466.	1.432	
25859.085	3566.0167	66.	0.716	10,0P28
25857.744	3566.2173	138.	0.818	
25854.763	3566.6631	59.	0.715	
25853.292	3566.8831	611.	0.817	4,1R2
25851.816	3567.1039	889.	0.920	8,2P6;7,0R20,2P6
25850.411	3567.3140	213.	0.613	3,0P14
25848.400	3567.6149	47.	0.613	4,1P1 5,0R20
25847.084	3567.8119	127.	0.715	
25844.859	3568.1448	144.	0.919	
25843.020	3568.4200	35.	0.408	9,2P11
25841.416	3568.6602	296.	1.021	
25840.079	3568.8604	52.	0.612	
25837.743	3569.2102	139.	1.020	13,3R15
25836.213	3569.4393	25.	0.408	4,1R3
25834.431	3569.6987	43.	0.612	
25832.893	3569.9366	889.	0.918	
25831.454	3570.1522	69.	0.816	6,0P21
25829.501	3570.4448	24.	0.510	
25828.329	3570.6204	32.	0.408	
25827.255	3570.7814	316.	0.714	4,1P2 8,1P18
25825.967	3570.9745	36.	0.815	
25823.874	3571.2883	213.	0.917	
25822.696	3571.4649	127.	0.509	7,0P23 5,1R10
25821.512	3571.6424	70.	0.713	
25818.824	3572.0455	218.	0.815	
25816.576	3572.3825	9770.	1.013	8,0P26 8,2R8 5,0P19
25814.991	3572.6205	59.	0.916	
25813.835	3572.7937	28.	0.407	
25812.695	3572.9649	92.	0.611	13,3P14
25811.419	3573.1563	153.	0.509	
25810.296	3573.3248	222.	0.712	
25808.522	3573.5911	69.	0.814	4,1R4;4,0R18
25806.913	3573.8326	96.	0.814	
25803.948	3574.2928	1086.	1.119	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25802.173	3574.5443	155.	0.814	10,2R16
25799.759	3574.9068	25.	0.915	
25798.364	3575.1163	29.	0.508	
25796.806	3575.3505	37.	0.510	
25795.628	3575.5274	22.	0.508	
25793.797	3575.8025	23.	0.508	
25792.928	3575.9330	26.	0.406	
25791.586	3576.1348	376.	1.016	4,1P3
25789.886	3576.3903	36.	0.610	
25788.596	3576.5842	2443.	0.711	5,1P9
25786.902	3576.8388	1222.	0.813	8,2P7;6,1R14
25785.182	3577.0974	40.	0.509	
25782.844	3577.4490	163.	0.812	8,0P25
25780.297	3577.8322	50.	0.609	
25778.127	3578.1586	543.	0.913	7,1R17
25776.328	3578.4293	26.	0.406	
25775.017	3578.6265	89.	1.115	
25773.319	3578.8820	31.	0.609	
25770.860	3579.2522	332.	1.116	9,2R13;4,0P17
25768.806	3579.5614	32.	0.710	
25767.473	3579.7621	36.	0.710	
25765.897	3579.9993	2320.	1.014	10,2P15;4,1R5
25763.501	3580.3602	32.	0.507	
25762.560	3580.5020	25.	0.507	
25760.205	3580.8568	83.	0.311	
25759.033	3581.0333	21.	0.405	
25756.846	3581.3628	211.	1.013	11,2R19
25754.957	3581.6476	25.	0.911	
25753.292	3581.8985	21.	0.506	
25751.110	3582.2274	714.	1.721	4,1P4;6,1P13
25749.110	3582.5290	24.	0.506	
25747.905	3582.7106	51.	0.607	
25745.971	3583.0023	34.	0.506	
25743.659	3583.3511	45.	0.708	
25742.580	3583.5139	46.	0.405	3,0R16
25741.580	3583.6648	258.	0.809	8,2R9
25739.544	3583.9719	387.	0.809	7,1P16;9,0R28
25738.318	3584.1570	57.	0.607	
25736.695	3584.4019	252.	1.112	9,2P12
25735.205	3584.6269	38.	0.606	
25733.794	3584.8398	20.	0.606	
25731.341	3585.2102	12.	0.404	
25729.864	3585.4332	13.	0.505	
25728.882	3585.5815	13.	0.404	
25727.229	3585.8312	2320.	1.111	5,1R11
25725.978	3586.0201	28.	0.404	
25724.317	3586.2710	83.	0.909	
25722.613	3586.5286	14.	0.707	
25721.206	3586.7411	96.	0.707	11,2P18
25719.396	3587.0147	4640.	1.211	4,1R6
25717.012	3587.3750	121.	0.807	9,0P27
25715.245	3587.6421	179.	0.807	8,2P8
25713.424	3587.9175	43.	0.504	13,3R16
25712.258	3588.0938	87.	0.605	
25708.349	3588.6547	27.	0.706	
25707.003	3588.8886	29.	0.403	
25706.130	3589.0206	34.	0.605	
25704.272	3589.3017	50.	1.210	
25702.826	3589.5206	22.	0.504	
25701.438	3589.7306	928.	1.008	4,1P5

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25699.844	3889.9719	258.	0.805	8,1R20
25697.973	3890.2551	60.	0.504	
25696.803	3890.4322	1547.	1.007	5,1P10
25694.979	3890.7054	22.	1.007	
25692.479	3891.0871	31.	0.504	
25689.855	3891.4844	28.	0.604	
25687.961	3891.7714	12.	1.005	
25684.891	3892.2365	35.	0.704	
25682.770	3892.5580	48.	0.805	13,3P15
25680.053	3892.9699	36.	0.905	
25678.452	3893.2126	29.	0.704	
25677.266	3893.3924	25.	0.503	
25674.730	3893.7770	30.	0.704	
25673.172	3894.0133	21.	0.603	
25672.032	3894.1862	28.	0.502	
25670.960	3894.3489	97.	0.503	6,0R23
25669.998	3894.4949	44.	0.502	
25668.332	3894.7475	129.	1.306	5,0R21;10,2R17
25664.269	3895.3642	1326.	2.008	6,1R14;4,1R7
25662.436	3895.6425	23.	0.402	
25661.493	3895.7856	31.	0.402	
25660.395	3895.9523	357.	0.803	9,2R14;8,1P19
25658.669	3896.2143	28.	0.703	
25657.248	3896.4301	25.	0.502	
25655.551	3896.6864	29.	0.502	
25654.533	3896.8424	52.	0.702	
25651.588	3897.2899	39.	0.702	
25649.678	3897.5801	25.	0.702	
25648.273	3897.7936	12.	0.401	
25646.822	3898.0141	75.	0.702	7,0R25
25644.409	3898.3809	48.	0.501	
25643.181	3898.5676	1032.	1.403	4,1P6;4,0R19
25641.901	3898.7623	27.	0.401	
25640.878	3898.9177	27.	0.501	
25638.988	3899.2053	25.	0.401	
25638.076	3899.3439	45.	0.501	
25636.579	3899.5717	357.	0.801	10,0R30;6,0P22
25634.819	3899.8394	211.	0.701	8,2P9
25633.244	3899.9725	310.	0.701	5,0P20
25632.074	3900.2571	546.	1.201	7,1R18
25630.479	3900.4998	150.	0.501	10,2P16
25629.380	3900.6670	2320.	0.901	5,1R12
25627.282	3900.9863	844.	1.501	6,1P14
25624.566	3901.3998	227.	1.001	9,2P13
25621.977	3901.7940	21.	0.600	
25619.220	3902.2139	71.	0.700	10,0P29
25617.479	3902.4791	21.	0.400	
25616.370	3902.6481	53.	0.800	
25614.191	3902.9802	163.	0.900	7,0P24
25611.890	3903.3308	12.	0.799	
25610.604	3903.5267	21.	0.400	
25609.398	3903.7105	163.	0.999	4,0P18
25608.020	3903.9207	23.	0.499	
25604.706	3904.4259	24.	0.599	
25603.564	3904.6001	40.	0.599	
25601.936	3904.8485	71.	0.799	
25600.120	3905.1254	1856.	1.597	11,2R20;4,1R8
25596.955	3905.6082	1547.	1.397	5,1P11
25593.722	3906.1017	64.	0.599	8,0R27
25592.320	3906.3157	332.	0.899	7,1P17

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25559.973	3905.5729	23.	0.598	13,3R17
25586.822	3907.1550	30.	1.196	
25585.391	3907.3736	23.	0.498	
25581.502	3907.9676	54.	0.598	8,2R11
25580.202	3908.1662	47.	0.598	
25578.074	3908.4914	99.	0.697	
25576.862	3908.6765	1326.	0.896	4,1P7
25575.549	3908.8773	23.	0.498	
25574.351	3909.0604	30.	0.697	
25570.989	3909.5743	13.	0.896	3,0P16
25567.974	3910.0353	21.	0.796	
25565.976	3910.3409	64.	0.697	
25564.565	3910.5568	133.	0.995	8,0P26
25563.171	3910.7701	88.	0.696	
25561.763	3910.9854	14.	0.696	
25560.730	3911.1435	12.	0.398	11,2P19
25559.491	3911.3332	39.	0.597	
25558.511	3911.4830	23.	0.398	
25557.208	3911.6825	14.	0.895	
25555.481	3911.9469	23.	0.696	
25553.822	3912.2008	27.	0.696	
25551.608	3912.5399	89.	0.696	13,3P16
25549.920	3912.7983	53.	0.696	
25548.539	3913.0098	51.	0.695	
25546.382	3913.3402	156.	0.894	8,2P10
25544.877	3913.5707	67.	0.695	
25542.457	3913.9415	153.	0.596	
25534.910	3915.0984	9280.	11.410	9,2R15
25527.942	3916.1671	9280.	0.892	
25526.506	3916.3874	207.	0.793	
25525.211	3916.5861	53.	0.397	6,1R16
25523.627	3916.8292	1856.	0.991	
25521.709	3917.1236	33.	0.495	
25518.157	3917.6688	33.	0.693	4,1R9
25516.302	3917.9536	63.	1.387	
25514.164	3918.2819	59.	0.594	
25512.924	3918.4723	42.	0.693	10,2R18
25510.607	3918.8283	61.	0.792	
25509.212	3919.0426	46.	0.594	
25507.668	3919.2797	155.	1.089	5,1R13
25506.121	3919.5176	14.	0.495	
25504.757	3919.7271	221.	0.989	
25503.419	3919.9328	40.	0.495	3,1R0
25502.060	3920.1416	1326.	1.088	
25498.915	3920.6251	41.	0.791	
25495.937	3921.0755	1160.	1.384	3,1R1;9,0R29
25494.332	3921.3299	34.	0.593	
25491.173	3921.8159	119.	0.791	
25489.464	3922.0789	1326.	1.581	9,2P14
25487.735	3922.3450	133.	0.691	
25486.920	3922.4704	52.	0.395	
25485.810	3922.6412	115.	0.593	4,1P8
25484.821	3922.7934	64.	0.395	
25483.966	3922.9251	90.	0.592	
25482.783	3923.1071	43.	0.592	6,1P15;3,1R2
25481.149	3923.3588	20.	0.691	
25478.666	3923.7412	387.	0.987	
25475.885	3924.1695	422.	1.184	8,1P20
25474.321	3924.4103	27.	0.395	
25473.128	3924.5942	63.	1.184	
				5,1P12;3,1P1
				10,2P17
				9,0P28
				5,0R22
				8,2R12
				7,1R19
				3,1R3
				4,0R20;6,0R24

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
25471.543	3924.9154	24.	0.493
25469.637	3925.1244	14.	0.493
25468.207	3925.3526	12.	0.493
25466.597	3925.6003	135.	0.887
25463.972	3926.0054	21.	0.789
25462.529	3926.2273	32.	0.591
25460.961	3926.4697	63.	1.182
25459.145	3926.7498	30.	0.493
25458.131	3926.9062	24.	0.493
25456.027	3927.2308	24.	0.589
25454.369	3927.4866	41.	0.985
25451.578	3927.9172	24.	0.492
25450.243	3928.1234	332.	1.083
25448.430	3928.4031	31.	0.591
25446.915	3928.6370	1326.	1.373
25443.955	3929.0940	15.	0.787
25442.319	3929.3467	32.	0.984
25440.279	3929.6618	90.	0.588
25439.003	3929.8589	148.	0.590
25437.676	3930.0640	300.	1.082
25435.703	3930.3689	57.	0.492
25434.519	3930.5518	273.	0.885
25433.271	3930.7446	22.	0.491
25431.698	3930.9877	39.	0.884
25430.190	3931.2209	12.	0.393
25429.200	3931.3739	13.	0.786
25427.828	3931.5861	41.	0.585
25425.239	3931.9865	24.	0.589
25423.718	3932.2218	12.	0.393
25422.506	3932.4092	50.	0.589
25421.715	3932.5315	39.	0.589
25420.377	3932.7385	14.	0.587
25418.836	3932.9769	1326.	1.178
25416.886	3933.2786	67.	0.785
25415.503	3933.4928	22.	0.589
25414.258	3933.6854	14.	0.587
25411.585	3934.0992	49.	0.785
25409.863	3934.3658	1160.	0.883
25408.731	3934.5411	489.	0.586
25407.404	3934.7465	29.	0.588
25405.724	3935.0068	12.	0.392
25404.282	3935.2302	23.	0.588
25403.017	3935.4261	114.	0.784
25401.753	3935.6220	17.	0.490
25400.193	3935.8637	17.	0.586
25398.524	3936.1224	72.	0.586
25396.682	3936.4078	1032.	1.175
25394.881	3936.6870	21.	0.392
25393.585	3936.8725	387.	0.881
25390.803	3937.3193	36.	0.587
25389.661	3937.4963	23.	0.587
25387.425	3937.8432	13.	0.585
25385.982	3938.0670	13.	0.489
25385.137	3938.1981	12.	0.391
25384.293	3938.3291	13.	0.587
25382.312	3938.6365	62.	0.783
25380.447	3938.9259	13.	0.489
25379.184	3939.1218	22.	0.587
25377.682	3939.3550	175.	1.271
25376.157	3939.5871	22.	0.489

ASSIGNMENT
(v', v'', Branch J)

3,1P2.

8,2P11;5,0P21

4,1R10;3,1R4

13,3R18;3,0R18

4,0P19

6,0P23

7,1P18

11,2R21

3,1P3;7,0R26

4,1P9

9,2R16

3,0P17

5,1R14

3,1R5

7,0P25

11,2P20

6,1R17

3,1P4

10,0R31

8,2R13

10,2R19;9.2P15

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
25375.043	3939.7647	47.	0.584	10,0P30
25373.382	3940.0227	1547.	1.173	5,1P13
25371.611	3940.2977	25.	0.586	
25369.958	3940.5545	13.	0.585	
25368.487	3940.7829	85.	0.977	8,0R28
25366.312	3941.1208	14.	0.586	
25363.824	3941.5075	23.	0.585	
25362.398	3941.7290	714.	0.976	3,1R6
25361.083	3941.9335	74.	0.683	
25359.309	3942.2092	14.	0.585	
25357.941	3942.4219	3094.	0.878	4,1R11
25356.609	3942.6290	714.	0.683	6,1P16
25355.294	3942.8334	202.	0.781	
25353.883	3943.0529	13.	0.488	
25352.545	3943.2609	27.	0.585	
25350.462	3943.5850	16.	0.583	
25347.563	3944.0360	12.	0.585	
25346.100	3944.2637	126.	0.975	8,2P12
25344.331	3944.5391	464.	0.975	3,1P5
25341.586	3944.9662	53.	0.682	
25340.348	3945.1590	80.	0.682	8,0P27
25337.988	3945.5265	104.	0.877	10,2P18
25336.665	3945.7325	13.	0.390	
25335.025	3945.9879	12.	0.390	
25334.153	3946.1237	13.	0.389	
25332.976	3946.3071	43.	0.779	
25330.726	3946.6577	12.	0.375	
25327.342	3947.1850	1032.	1.168	4,1P10
25324.809	3947.5798	50.	0.681	
25323.659	3947.7591	39.	0.681	
25321.236	3948.1368	21.	0.681	
25319.279	3948.4420	25.	0.681	
25317.926	3948.6529	387.	0.875	7,1R20
25316.831	3948.8237	27.	0.389	
25315.021	3949.1062	111.	0.680	8,1P21
25313.959	3949.2718	25.	0.485	
25312.707	3949.4672	16.	0.583	
25311.172	3949.7066	18.	0.680	
25309.499	3949.9677	14.	0.583	
25307.090	3950.3438	714.	0.971	3,1R7
25305.426	3950.6035	37.	0.777	
25303.513	3950.9023	30.	0.583	
25301.511	3951.1524	16.	0.874	
25300.453	3951.3801	26.	0.485	
25298.898	3951.6229	17.	0.679	
25296.488	3951.9994	36.	0.679	4,0R21
25293.684	3952.4375	35.	0.679	5,0R23
25292.291	3952.6552	13.	0.582	
25291.027	3952.8528	16.	0.679	
25290.071	3953.0023	12.	0.388	
25287.654	3953.3801	1160.	0.872	5,1R15
25286.277	3953.6954	442.	0.872	3,1P6
25283.903	3953.9666	49.	0.775	9,2R17
25281.952	3954.2717	12.	0.678	
25280.735	3954.4621	16.	0.581	
25279.626	3954.6356	18.	0.678	3,0R19
25276.313	3955.1539	251.	0.968	7,1P19
25275.136	3955.3380	24.	0.484	
25272.786	3955.7059	44.	0.678	8,2R14
25270.821	3956.0135	32.	0.581	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT	
				(v', v'', Branch J)	
25267.930	3956.4517	79.	1.451	9,0R30;6,0R25	
25266.257	3956.7210	12.	0.387		
25264.691	3956.9733	40.	0.580	11,2R22	
25263.404	3957.1750	78.	0.370	13,3P18;4,0P20	
25261.402	3957.4885	15.	0.387		
25259.999	3957.7083	663.	1.450	4,1R13;5,0P22	
25256.513	3958.2546	21.	0.580		
25255.159	3958.4669	13.	0.580		
25253.133	3958.7845	14.	0.773		
25251.166	3959.0928	663.	0.869	6,1R18	
25249.721	3959.3193	928.	0.869	5,1P14;3,0P18	
25248.573	3959.4995	57.	0.580	9,0P29	
25247.109	3959.7291	17.	0.676		
25245.541	3959.9750	25.	0.386		
25244.776	3960.0950	58.	0.579		
25243.112	3960.3560	619.	1.158	3,1R8;9,2P16	
25240.237	3960.8072	13.	0.676		
25239.016	3960.9928	13.	0.675		
25236.562	3961.3839	33.	0.579		
25234.575	3961.6958	232.	0.868	8,2P13;6,0P24	
25232.353	3962.0447	17.	0.771		
25230.285	3962.3696	41.	1.061		
25227.488	3962.8089	774.	1.446	11,2P21;4,1P11	
25225.156	3963.1752	21.	0.771		
25223.826	3963.3841	13.	0.385		
25222.312	3963.6220	44.	0.674	10,2P20	
25221.067	3963.8177	24.	0.385		
25219.915	3963.9989	516.	0.363	3,1P7	
25218.351	3964.2447	12.	0.385		
25216.688	3964.5061	40.	0.674	7,0R27	
25213.005	3965.0832	12.	0.363		
25211.383	3965.3403	12.	0.385		
25209.991	3965.5592	580.	1.059	6,1P17	
25208.508	3965.7926	15.	0.481		
25207.049	3966.0222	22.	0.673		
25204.440	3966.4326	13.	0.769		
25202.113	3966.7989	17.	0.769		
25197.559	3967.5158	12.	0.961		
25195.474	3967.8442	14.	0.577		
25191.207	3968.5162	12.	0.480		
25189.882	3968.7250	17.	0.576		
25188.558	3968.9337	12.	0.762		
25186.640	3969.2359	14.	0.384		
25185.516	3969.4130	36.	0.762	7,0P26	
25183.762	3969.6896	29.	0.864		
25181.381	3970.0649	80.	0.864	10,2P19	
25180.110	3970.2653	13.	0.384		
25177.950	3970.6059	18.	0.672		
25176.487	3970.8367	15.	0.576		
25173.808	3971.2592	15.	0.384		
25172.467	3971.4707	145.	1.342		
25170.688	3971.7515	714.	1.055	3,1R9;2,1R0	
25167.952	3972.1833	58.	0.671	2,1R1	
25164.203	3972.7751	73.	0.767		
25161.919	3973.1356	16.	0.575		
25160.300	3973.3913	17.	0.766		
25158.876	3973.6162	17.	0.575		
25157.628	3973.8133	928.	0.862	5,1R16	
25156.074	3974.0589	102.	1.149	2,1R2	
25154.241	3974.3485	663.	1.149	4,1R13	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25040.278	3992.4369	588.	1.420	4,1R14
25038.726	3992.6843	16.	0.568	
25037.215	3992.9253	13.	0.563	
25034.969	3993.2836	13.	0.473	
25033.805	3993.4692	25.	0.662	
25031.059	3993.9073	24.	0.757	8,2R16
25026.732	3994.5978	27.	0.662	
25024.708	3994.9209	18.	0.378	
25023.558	3995.1045	57.	1.040	9,0R31;6,0P25
25022.032	3995.3481	182.	0.351	2,1R6
25019.736	3995.7148	666.	1.134	5,1R17
25018.067	3995.9815	77.	0.756	10,2P20
25016.242	3996.2730	14.	0.661	
25013.315	3996.7406	13.	1.606	
25011.570	3997.0195	21.	0.567	
25010.514	3997.1882	25.	0.661	
25008.950	3997.4382	12.	1.038	
25006.084	3997.8963	38.	0.755	
25004.229	3998.1929	909.	1.321	2,1P5;4,1P13
25002.920	3998.4022	23.	0.377	
25000.225	3998.8333	417.	1.132	3,1R11
24997.419	3999.2822	16.	0.754	
24996.057	3999.5001	24.	0.660	9,2R19
24994.373	3999.7695	16.	0.660	
24991.921	4000.1620	32.	0.754	7,0R28
24990.217	4000.4347	12.	0.471	
24988.902	4000.6453	63.	0.754	8,2P15
24987.459	4000.8763	15.	0.659	
24985.724	4001.1541	12.	0.471	
24983.386	4001.5285	110.	0.848	
24979.307	4002.1821	714.	1.130	5,1P16
24977.113	4002.5336	14.	0.565	
24974.692	4002.9217	209.	0.847	7,1R22
24971.472	4003.4378	26.	0.658	
24970.136	4003.6519	454.	1.035	3,1P10
24968.264	4003.9522	26.	0.564	
24966.555	4004.2263	164.	0.940	2,1R7
24965.048	4004.4680	15.	0.658	
24963.025	4004.7925	17.	0.470	
24962.005	4004.9561	52.	0.564	7,0P27
24960.673	4005.1699	90.	0.788	
24957.916	4005.6124	41.	1.688	
24955.596	4005.9846	15.	0.675	
24954.310	4006.1911	25.	0.900	
24952.594	4006.4667	104.	0.900	9,2P18
24949.524	4006.9596	28.	0.675	
24946.448	4007.4538	275.	1.237	2,1P6
24942.546	4008.0807	146.	1.236	
24940.001	4008.4897	23.	0.787	
24937.474	4008.8960	506.	1.236	6,1R20
24935.527	4009.2089	31.	0.786	
24932.191	4009.7454	310.	1.123	7,1P21
24930.624	4009.9974	25.	0.674	
24928.474	4010.3433	13.	0.672	
24926.517	4010.6551	14.	0.561	
24925.344	4010.8469	21.	0.561	
24923.998	4011.0635	70.	0.785	
24922.839	4011.2500	24.	0.449	
24921.912	4011.3992	23.	0.561	
24921.159	4011.5205	15.	0.449	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
25152.657	3974.5957	13.	0.765	7,1R21;2,1P1
25151.341	3974.8066	14.	0.478	
25149.952	3975.0262	290.	0.957	
25148.525	3975.2513	14.	0.574	3,1P8
25147.058	3975.4837	15.	0.473	
25145.103	3975.7928	663.	1.052	
25143.504	3975.9457	38.	0.569	9,2R18
25139.526	3976.6748	39.	0.574	
25138.290	3976.8703	28.	0.573	
25137.105	3977.0579	45.	0.669	8,0R29
25135.889	3977.2502	110.	0.669	
25134.877	3977.4103	19.	0.382	
25132.114	3977.8476	90.	0.764	8,1P22
25130.051	3978.1742	16.	0.955	
25128.401	3978.4354	12.	0.859	
25126.829	3978.6843	104.	0.955	2,1P2
25125.474	3978.8988	34.	0.668	
25124.042	3979.1256	23.	0.668	
25122.321	3979.3983	41.	1.241	4,1P12
25119.885	3979.7842	1326.	1.050	
25118.275	3980.0393	1032.	1.049	
25115.506	3980.4782	73.	0.763	8,2R15
25113.142	3980.8527	13.	0.667	
25111.901	3981.0495	22.	0.667	
25110.136	3981.3294	55.	0.858	13,3P19;8,0P28
25107.845	3981.6926	250.	0.762	
25106.682	3981.8771	141.	0.572	
25104.752	3982.1817	17.	0.572	9,2P17
25102.309	3982.5708	54.	0.667	
25101.573	3982.6276	89.	0.667	
25098.047	3983.2471	454.	1.047	6,1R19
25096.614	3983.4745	14.	0.571	
25095.481	3983.6544	30.	0.476	
25094.627	3983.7900	90.	0.665	2,1P3
25093.286	3984.0028	24.	0.571	
25090.977	3984.3696	15.	0.476	
25089.715	3984.5700	555.	1.046	3,1R10
25088.020	3984.8391	15.	0.380	
25087.044	3984.9941	34.	0.666	
25083.273	3985.5933	2498.	1.997	4,0P21
25080.999	3985.9546	30.	0.665	
25079.394	3986.2097	71.	0.760	
25077.471	3986.5155	12.	0.665	2,1R5
25075.940	3986.7588	26.	0.570	
25074.643	3986.9650	24.	0.760	
25072.973	3987.2335	16.	0.665	2,1R5
25071.413	3987.4788	12.	0.760	
25068.777	3987.8980	162.	0.949	
25065.311	3988.4495	16.	0.569	3,1P9;5,0P23
25061.606	3989.0392	714.	1.613	
25059.722	3989.3389	39.	0.759	
25056.159	3989.9062	454.	1.043	6,1P18;6,0R26
25055.039	3990.0848	63.	0.474	
25053.838	3990.2760	111.	0.758	
25052.666	3990.4627	12.	0.379	11,2P22
25049.362	3990.9889	47.	0.663	
25047.458	3991.2923	21.	0.663	
25045.246	3991.6448	15.	0.379	2,1P4
25044.368	3991.7849	34.	0.568	
25042.751	3992.0426	38.	0.663	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
24919.775	4011.7433	41.	0.897	4,OR23
24917.741	4012.0737	687.	1.234	4,1R15
24914.515	4012.5931	25.	0.897	
24913.507	4012.8332	22.	0.673	
24911.726	4013.0395	12.	0.448	
24910.111	4013.2996	22.	0.896	5,2R0
24907.758	4013.6788	21.	0.672	5,2R1
24904.789	4014.1573	48.	0.896	
24902.296	4014.5591	874.	2.352	3,1R12;2,1R8
24899.879	4014.9488	50.	0.672	
24898.762	4015.1289	27.	0.560	8,2R17
24896.911	4015.4275	32.	0.672	5,2R2
24894.725	4015.7801	566.	1.231	6,1P19
24892.918	4016.0716	14.	0.671	
24890.427	4016.4735	79.	1.566	10,2R22;5,2P1;5,OR25
24888.169	4016.8379	60.	1.118	4,OP22
24885.787	4017.2224	12.	0.447	
24884.492	4017.4315	27.	0.783	
24882.851	4017.6964	34.	0.671	
24880.035	4018.1512	1373.	1.676	4,1P14;2,1P7
24877.495	4018.5614	52.	1.341	5,2R3
24874.131	4019.1049	961.	1.340	5,1R18;8,OP29
24870.387	4019.7100	874.	1.228	3,1P11
24868.906	4019.9494	47.	0.558	
24861.310	4021.1776	27.	0.446	
24860.204	4021.3565	31.	0.446	
24859.278	4021.5063	40.	0.663	
24857.421	4021.8068	93.	0.892	5,OP24
24855.292	4022.1513	103.	0.892	8,2P16
24853.911	4022.3748	40.	0.663	1,1R0
24852.244	4022.6446	36.	0.446	
24850.655	4022.9019	86.	1.560	1,1R1;5,2R4
24848.074	4023.3196	166.	0.891	10,2P21
24846.279	4023.6104	122.	0.891	
24844.075	4023.9673	63.	1.114	
24842.725	4024.1859	76.	0.445	
24841.671	4024.3567	127.	0.557	
24839.346	4024.7335	159.	0.668	1,1R2
24838.204	4024.9185	161.	0.557	
24835.582	4025.3434	209.	2.671	
24832.723	4025.8068	10610.	1.001	5,1P17;1,1P1
24830.954	4026.0937	332.	0.890	
24829.411	4026.3438	1373.	0.779	2,1R9
24827.413	4026.6678	566.	0.890	
24824.949	4027.0676	229.	2.446	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	ASSIGNMENT
				(v', v'', Branch J)
24818.476	4028.1179	10610.	8.557	1,1R3
24810.387	4029.4312	437.	5.552	1,1P2
24806.314	4030.0928	310.	1.110	6,0P26
24804.647	4030.3636	801.	0.888	2,1P8
24801.836	4030.8123	10610.	1.553	
24798.376	4031.3830	108.	0.555	
24797.206	4031.5732	219.	0.665	9,2P19;5,2P4
24795.800	4031.8018	961.	0.776	3,1R13
24794.495	4032.0139	101.	0.665	
24792.806	4032.2887	506.	0.998	7,1R23
24789.480	4032.8296	124.	0.665	1,1R4
24787.599	4033.1357	10610.	1.551	4,1R16
24785.050	4033.5505	48.	0.554	
24783.933	4033.7323	59.	0.665	8,3R1
24782.885	4033.9028	48.	0.775	
24781.082	4034.1964	34.	0.886	
24779.024	4034.5314	10610.	1.218	
24777.206	4034.8275	57.	1.218	1,1P3
24773.876	4035.3699	52.	1.439	8,3R2
24771.499	4035.7571	41.	0.443	
24770.003	4036.0008	641.	1.438	5,2R6;6,1R21
24768.266	4036.2838	23.	0.442	
24766.832	4036.5175	27.	0.885	8,3P1
24765.363	4036.7570	21.	0.553	
24762.341	4037.2496	961.	0.995	3,1P12
24761.264	4037.4252	70.	0.663	7,0R29
24759.081	4037.7812	26.	0.442	8,2R18
24757.935	4037.9682	71.	0.884	9,0P31
24755.416	4038.3790	62.	0.563	8,3R3
24754.041	4038.6033	47.	0.773	
24751.377	4039.0380	178.	0.773	1,1R5
24750.124	4039.2426	506.	0.563	5,2P5;7,1P22
24748.883	4039.4450	1373.	0.662	4,1P15
24747.949	4039.5975	267.	0.442	2,1R10
24746.726	4039.7972	148.	0.993	
24744.838	4040.1054	37.	0.773	8,3P2
24742.204	4040.5356	23.	0.662	
24740.847	4040.7571	13.	0.441	
24739.559	4040.9675	14.	0.882	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24736.839	4041.4119	151.	0.993	1,1P4
24735.195	4041.6805	13.	0.772	
24733.934	4041.8865	14.	0.441	
24732.366	4042.1396	73.	0.882	7,0P28
24730.226	4042.4926	27.	0.772	
24728.946	4042.7018	67.	0.661	8,3R4
24727.994	4042.8575	32.	0.441	
24726.555	4043.0927	740.	1.102	6,1P20
24723.322	4043.6214	52.	0.881	
24721.173	4043.9729	1922.	1.211	5,1R19;2,1P9;4,0R24
24719.965	4044.1707	39.	0.551	
24718.090	4044.4773	163.	0.991	5,2R7
24716.307	4044.7691	40.	0.771	
24714.726	4045.0279	129.	1.211	8,3P3;10,R23;8,2P17
24712.643	4045.3688	136.	0.990	
24710.000	4045.8016	67.	0.770	
24708.299	4046.0802	28.	0.660	
24706.915	4046.3067	14.	0.770	
24705.425	4046.5509	21.	0.440	
24703.941	4046.7939	79.	0.770	1,1R6
24701.805	4047.1439	46.	1.532	
24697.109	4047.9133	26.	1.209	
24695.879	4048.1150	41.	0.549	
24694.659	4048.3150	138.	0.659	8,3R5;5,2P6
24693.362	4048.5277	197.	0.769	
24691.795	4048.7846	26.	0.549	
24689.793	4049.1129	45.	0.769	4,0P23
24688.387	4049.3435	24.	0.439	
24687.232	4049.5329	71.	0.878	1,1P5
24685.405	4049.8326	12.	1.207	
24683.976	4050.0671	12.	0.549	
24681.460	4050.4799	437.	1.365	3,1R14
24678.808	4050.9152	961.	1.316	5,1P18;5,0R26
24676.746	4051.2537	61.	1.426	8,3P4
24674.877	4051.5606	60.	0.877	
24673.041	4051.8620	25.	0.658	
24671.640	4052.0922	75.	1.096	10,2P22
24669.403	4052.4596	15.	0.767	
24667.889	4052.7084	13.	0.658	
24666.214	4052.9835	38.	0.767	
24664.712	4053.2303	15.	0.548	
24663.459	4053.4363	28.	0.657	
24662.571	4053.5822	22.	0.548	
24659.757	4054.0448	14.	0.657	
24657.477	4054.4197	437.	1.642	5,2R8;2,1R11
24655.111	4054.8089	12.	0.547	
24653.691	4055.0424	12.	0.547	
24652.081	4055.3072	235.	1.094	8,3R6
24650.687	4055.5365	57.	0.438	
24649.467	4055.7373	566.	0.875	4,1R17
24647.926	4055.9909	101.	0.875	1,1R7
24646.352	4056.2498	1202.	0.984	3,1P13;5,0P25
24644.910	4056.4873	69.	0.765	
24642.561	4056.8740	52.	1.312	
24640.624	4057.1929	23.	0.765	
24637.868	4057.6467	40.	0.984	
24636.364	4057.8945	16.	0.546	
24635.059	4058.1094	33.	0.983	9,2P20
24632.782	4058.4844	64.	0.765	8,0P30
24631.289	4058.7305	98.	0.983	8,3P5

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT	
				(v', v'', Branch J)	
24629.240	4059.0681	506.	1.420	2,P10;1,1P6	
24626.672	4059.4914	34.	0.655		
24625.022	4059.7635	26.	0.873		
24623.010	4060.0952	74.	0.764		
24621.188	4060.3957	26.	0.655		
24619.182	4060.7265	12.	0.436		
24616.246	4061.2107	15.	0.654		
24613.913	4061.5958	46.	0.763	8,2R19	
24612.247	4061.8708	60.	0.654		
24611.112	4062.0580	44.	0.545		
24609.838	4062.2684	1373.	0.872	4,1P16	
24608.213	4062.5365	566.	1.090		
24607.143	4062.7132	62.	0.654		
24605.586	4062.9703	14.	0.436		
24604.032	4063.2269	321.	1.416	7,1R24	
24601.655	4063.6196	209.	1.307	8,3R7	
24600.092	4063.8777	26.	0.544		
24598.543	4064.1336	21.	0.762		
24595.174	4064.6903	401.	1.197	6,1R22	
24592.395	4065.1496	23.	0.653		
24590.373	4065.4840	28.	0.544		
24588.996	4065.7116	214.	0.979	5,2R9	
24586.403	4066.1404	58.	0.653		
24585.155	4066.3468	178.	0.370		
24583.238	4066.6639	169.	0.652	1,1R8	
24581.688	4066.9204	193.	1.196		
24579.882	4067.2193	56.	0.870		
24578.191	4067.4990	99.	1.195	8,3P6	
24576.715	4067.7433	33.	0.435		
24575.699	4067.9114	35.	0.652		
24573.121	4068.3383	34.	0.760		
24570.795	4068.7234	28.	0.652		
24568.819	4069.0506	15.	0.543		
24566.799	4069.3853	47.	0.868	8,2P18	
24565.014	4069.6810	310.	1.194		
24563.417	4069.9455	35.	0.543		
24561.938	4070.1906	301.	1.194	1,1P7;7,1P23	
24560.687	4070.3979	566.	0.651	5,1R20	
24559.357	4070.6184	224.	0.759	5,2P8;2,1R12	
24558.270	4070.7985	385.	0.759	3,1R15	
24556.657	4071.0660	24.	0.542		
24555.328	4071.2863	58.	0.759		
24553.862	4071.6294	33.	0.651		
24551.975	4071.8423	566.	1.843	6,1P21	
24550.255	4072.1276	31.	0.434		
24549.503	4072.2523	27.	0.542		
24548.156	4072.4758	32.	0.759		
24545.165	4072.9720	219.	0.975		
24543.594	4073.2327	178.	0.867	8,3R8	
24541.112	4073.6446	24.	0.542		
24539.244	4073.8385	47.	0.758	4,2R0	
24537.930	4074.1730	185.	1.299	4,2R1	
24535.979	4074.4970	119.	0.866		
24533.687	4074.8775	30.	0.649		
24532.078	4075.1449	34.	0.649	10,2R24	
24530.128	4075.4689	61.	0.649		
24528.974	4075.6605	332.	0.974	2,1P11	
24527.047	4075.9808	163.	0.757	4,2R2	
24525.863	4076.1776	104.	0.541		
24524.741	4076.3641	63.	0.649	7,0R30	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24523.843	4076.5133	33.	0.433	
24522.256	4076.7771	874.	1.297	3,1P14
24519.838	4077.1792	40.	0.649	4,2P1
24518.025	4077.4806	961.	1.081	5,1P19
24516.352	4077.7590	92.	1.081	8,3P7
24514.696	4078.0344	34.	0.756	
24512.331	4078.4196	321.	0.972	5,2R10
24509.389	4078.9174	175.	1.296	1,1R9
24507.680	4079.2019	209.	0.972	4,2R3
24505.122	4079.6277	57.	0.648	
24503.673	4079.8690	874.	0.971	4,1R18
24500.297	4080.4311	80.	0.863	
24499.111	4080.6287	14.	0.432	
24497.200	4080.9470	189.	0.971	4,2P2;7,0P29
24495.583	4081.2165	84.	0.755	
24493.712	4081.5252	107.	1.402	
24489.309	4082.2619	67.	0.754	10,2P23
24488.168	4082.4523	28.	0.539	
24486.680	4082.7003	155.	0.862	1,1P8
24484.776	4083.0177	55.	0.862	4,0P24
24483.383	4083.2502	50.	0.646	
24480.397	4083.7481	437.	1.400	5,2P9;4,2R4
24478.830	4084.0097	69.	0.431	
24477.633	4084.2094	201.	0.861	8,3R9
24475.195	4084.6161	14.	0.969	
24473.848	4084.8409	12.	0.431	
24472.750	4085.0243	14.	0.753	
24471.337	4085.2600	31.	0.538	
24470.338	4085.4269	65.	0.861	
24468.608	4085.7158	38.	0.861	
24466.421	4086.0810	235.	1.076	4,2P3
24464.680	4086.3718	25.	0.645	
24463.101	4086.6334	1202.	1.075	4,1P17
24461.580	4086.8897	28.	0.645	
24460.732	4087.0314	25.	0.430	
24459.689	4087.2056	30.	0.645	8,2R20
24458.353	4087.4288	13.	0.645	
24456.220	4087.7854	92.	1.289	
24453.500	4088.2401	50.	0.752	
24451.892	4088.5088	209.	0.967	2,1R13
24450.578	4088.7286	22.	0.537	
24448.912	4089.0073	40.	0.966	
24447.532	4089.2381	117.	0.859	8,3P8
24444.735	4089.7060	405.	0.966	4,2R5
24443.504	4089.9120	23.	0.537	
24442.550	4090.0716	15.	0.537	
24438.319	4090.7797	13.	0.751	
24435.426	4091.2640	17.	0.643	
24432.678	4091.7242	36.	0.750	
24431.307	4091.9538	101.	0.750	
24430.172	4092.1440	26.	0.429	
24429.040	4092.3335	42.	0.536	5,0P26
24427.359	4092.6152	1536.	1.500	4,2P4;3,1R16;1,1R10;5,2R1
24424.760	4093.0508	59.	0.750	
24423.423	4093.2747	26.	0.643	
24420.773	4093.7129	285.	1.321	2,1P12
24418.471	4094.1049	17.	0.857	
24417.242	4094.3110	17.	0.535	
24416.416	4094.4494	16.	0.535	
24415.126	4094.6658	17.	0.749	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24413.605	4094.9210	405.	0.963	6,1R23
24412.230	4095.1516	29.	0.642	8,2P19
24409.144	4095.6693	265.	1.070	7,1R25
24407.353	4095.9698	27.	1.070	
24405.067	4096.3535	59.	0.535	
24404.048	4096.5246	248.	0.542	8,3R10
24402.673	4096.7555	140.	0.962	1,1P9
24400.717	4097.0838	640.	1.069	4,2R6
24397.808	4097.5723	64.	1.389	
24394.506	4098.1270	37.	0.748	7,3R0
24392.725	4098.4262	768.	1.495	5,2P10;5,1R21;7,3R1
24390.448	4098.8088	768.	1.175	3,1P15
24387.769	4099.2591	109.	0.854	
24385.989	4099.5582	48.	0.640	
24385.077	4099.7116	24.	0.534	
24383.311	4100.0086	33.	0.640	
24382.178	4100.1992	106.	0.640	7,3R2
24381.107	4100.3791	79.	0.427	
24380.025	4100.5611	275.	0.353	4,2P5
24378.978	4100.7372	31.	0.427	
24376.668	4101.1259	154.	1.386	
24374.843	4101.4330	35.	0.745	7,3P1
24372.903	4101.7595	27.	1.812	
24370.971	4102.0846	133.	0.640	8,3P9
24369.777	4102.2857	549.	0.553	6,1P22
24368.601	4102.4835	29.	0.533	
24366.532	4102.8320	427.	0.353	7,1P24
24363.995	4103.2591	167.	0.353	7,3R3
24359.417	4104.0303	104.	0.353	
24358.065	4104.2581	17.	0.532	
24354.756	4104.8157	23.	0.426	
24353.927	4104.9555	51.	0.532	
24352.950	4105.1203	60.	0.745	7,3P2
24350.093	4105.6019	1536.	1.277	5,1P20;4,1R19
24348.456	4105.8778	960.	0.745	4,2R7
24346.138	4106.2688	38.	1.595	
24344.362	4106.5683	30.	0.532	
24343.453	4106.7218	61.	0.532	
24342.173	4106.9372	39.	0.957	
24339.950	4107.3127	18.	0.744	
24337.660	4107.6992	265.	1.169	7,3R4
24336.210	4107.9440	143.	0.425	2,1R14
24335.047	4108.1403	591.	0.850	5,2R12;1,1R11
24333.882	4108.3370	34.	0.425	
24332.739	4108.5199	21.	0.537	
24331.437	4108.7499	12.	0.425	
24328.290	4109.2814	57.	0.356	
24326.784	4109.5358	15.	0.425	
24325.778	4109.7057	45.	0.531	
24324.679	4109.8914	334.	0.355	4,2P6
24322.871	4110.1970	308.	1.379	8,3R11;7,3P3
24320.269	4110.6367	21.	0.743	
24318.708	4110.9006	22.	0.349	
24317.074	4111.1768	21.	0.742	
24315.716	4111.4064	19.	0.530	
24314.501	4111.6118	131.	0.848	
24312.149	4112.0095	19.	0.636	1,1P10
24309.577	4112.4447	1536.	1.802	
24307.881	4112.7317	63.	0.530	
24307.067	4112.8693	40.	0.636	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24303.113	4113.4081	640.	1.271	2,1P13;7,3R5
24301.722	4113.7740	25.	0.530	
24300.625	4113.9597	56.	0.635	10,2P24
24297.456	4114.4963	233.	1.059	5,2P11
24295.362	4114.8508	12.	0.953	
24294.262	4115.0372	12.	0.423	
24292.891	4115.2694	13.	1.270	
24291.311	4115.5371	45.	0.741	
24289.636	4115.8210	34.	0.423	
24288.281	4116.0506	1536.	1.375	3,1R17;4,2R8
24286.662	4116.3248	175.	0.635	8,3P10
24285.523	4116.5180	131.	0.634	7,3P4
24282.866	4116.9684	106.	1.374	10,4R4
24280.009	4117.4528	220.	1.163	
24276.823	4117.9933	41.	0.740	
24275.513	4118.2155	19.	0.634	
24273.059	4118.6318	40.	0.951	4,0P25
24271.618	4118.8763	56.	0.739	
24269.730	4119.1968	17.	0.422	
24268.555	4119.3963	45.	0.845	
24265.660	4119.8878	72.	0.739	
24264.246	4120.1277	233.	0.344	
24262.733	4120.3848	28.	0.422	
24261.423	4120.6072	768.	1.371	7,3R6,4,2P7
24259.613	4120.9147	22.	0.633	
24258.204	4121.1541	16.	0.633	
24255.867	4121.5511	58.	1.587	7,0P30
24252.111	4122.1894	24.	0.422	
24250.876	4122.3993	254.	1.054	3,1P16
24249.392	4122.6516	99.	0.843	10,4R5
24247.207	4123.0231	60.	0.632	
24246.323	4123.1735	83.	0.527	
24245.279	4123.3509	35.	0.632	
24243.958	4123.5758	22.	0.527	
24243.109	4123.7201	27.	0.421	
24242.216	4123.8720	30.	0.527	
24240.099	4124.2322	233.	0.943	7,3P9
24237.456	4124.6819	15.	0.737	
24234.908	4125.1156	549.	1.052	5,2R13;1,1R12
24233.553	4125.3462	320.	0.842	8,3R12
24231.937	4125.6213	135.	0.947	
24230.461	4125.8726	50.	0.736	
24228.761	4126.1622	15.	0.526	
24226.876	4126.4833	33.	0.736	
24225.138	4126.7793	384.	1.051	6,1R24
24222.542	4127.2216	26.	0.631	
24219.554	4127.7308	3840.	1.051	4,2R9
24218.069	4127.9838	480.	0.735	5,1R22
24216.199	4128.3026	40.	0.630	
24214.548	4128.5841	25.	0.630	
24213.292	4128.7933	54.	0.630	
24211.814	4129.0502	699.	1.260	7,3R7;2,1R15
24208.244	4129.5569	275.	0.945	1,1P11
24207.431	4129.7835	349.	0.735	7,1R26
24206.250	4129.9995	61.	0.420	
24205.255	4130.1692	92.	0.630	
24202.993	4130.5552	122.	2.203	
24192.588	4132.3318	7680.	17.713	
24182.819	4134.0011	334.	0.524	3,2R0
24181.563	4134.2158	1098.	0.524	6,1P23

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24180.452	4134.4058	427.	0.525	3,2R1
24179.161	4134.6265	452.	0.733	2,1P14
24176.956	4135.0036	66.	0.523	
24176.030	4135.1520	56.	0.419	
24174.740	4135.3826	1920.	0.837	5,1P21
24173.187	4135.6483	145.	0.732	
24171.053	4136.0135	41.	0.418	
24169.783	4136.2308	640.	0.941	3,2R2
24168.511	4136.4485	27.	0.418	
24166.949	4136.7159	37.	0.732	
24165.287	4137.0005	349.	0.941	7,1P25
24162.602	4137.4601	349.	1.045	3,2P1
24160.136	4137.8824	138.	1.045	10,4R7
24158.221	4138.2105	21.	0.522	
24157.058	4138.4097	89.	0.731	
24155.255	4138.7134	101.	0.627	
24153.899	4138.9509	512.	1.044	7,3R8
24150.698	4139.4996	699.	0.940	3,2R3
24147.700	4140.0135	1098.	0.939	4,1P19
24144.569	4140.5504	65.	0.522	
24142.908	4140.8353	2560.	0.835	4,2R10
24141.598	4141.0599	256.	0.730	3,1R18
24140.195	4141.3007	256.	0.730	3,2P2
24138.890	4141.5245	39.	0.834	
24137.403	4141.7796	405.	0.834	8,3R13
24136.121	4141.9997	92.	0.625	10,4P6
24134.920	4142.2058	52.	0.625	
24133.248	4142.4928	208.	0.730	
24131.665	4142.7646	23.	0.625	
24130.120	4143.0298	14.	0.417	
24127.957	4143.4011	14.	0.521	
24126.070	4143.7252	640.	1.666	7,3P7;5,2R14
24123.481	4144.1701	2560.	1.145	3,2R4
24122.300	4144.3728	48.	0.625	
24119.955	4144.7758	18.	0.416	
24118.855	4144.9649	57.	0.729	
24117.651	4145.1718	31.	0.833	
24115.117	4145.6074	68.	0.936	
24113.697	4145.8516	51.	0.624	
24112.227	4146.1043	17.	0.520	
24110.496	4146.4019	960.	0.332	4,2P9
24109.205	4146.6239	349.	0.728	3,2P3
24106.200	4147.1408	53.	0.728	10,2P25
24105.330	4147.2905	25.	0.416	
24103.813	4147.5516	591.	1.351	3,1P17;10,4R8
24102.271	4147.8169	18.	0.520	
24100.750	4148.0786	16.	0.416	
24099.497	4148.2944	192.	0.935	1,1P12
24097.191	4148.6914	14.	0.415	
24095.875	4148.9180	220.	0.935	8,3P12
24093.604	4149.3090	21.	1.142	
24091.938	4149.5960	15.	0.934	
24088.711	4150.1518	659.	0.726	7,3R9
24087.504	4150.3528	1280.	0.726	3,2R5
24086.320	4150.5639	53.	0.519	
24084.310	4150.9102	265.	0.830	5,2P13
24083.255	4151.0920	34.	0.519	
24081.905	4151.3248	17.	0.519	
24079.750	4151.6964	100.	0.330	2,1R16
24077.266	4152.1247	131.	1.659	10,4P7

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24073.958	4152.6952	50.	0.933	
24070.577	4153.2786	699.	1.347	3,2P4
24069.199	4153.5162	40.	0.518	
24068.123	4153.7020	24.	0.518	
24066.954	4153.9038	27.	0.828	
24065.713	4154.1179	13.	0.414	
24064.344	4154.3542	214.	1.035	
24060.748	4154.9752	89.	0.724	
24059.597	4155.1567	21.	0.414	
24058.350	4155.3893	3840.	1.035	4,2R11
24056.900	4155.6397	320.	0.828	
24055.467	4155.8874	16.	0.517	7,3P8
24054.075	4156.1278	88.	0.931	
24050.868	4156.6821	427.	1.137	
24049.293	4156.9543	65.	0.827	
24046.671	4157.4076	248.	1.344	2,1P15
24044.562	4157.7722	38.	0.413	
24043.565	4157.9446	1098.	1.033	3,2R6
24040.625	4158.4532	126.	0.723	10,4R9
24039.675	4158.6174	24.	0.413	
24038.682	4158.7893	15.	0.413	
24037.666	4158.9651	23.	0.620	
24036.315	4159.1988	349.	0.723	5,1R23
24035.028	4159.4215	45.	0.826	
24033.588	4159.6708	334.	0.826	8,3R14
24031.982	4159.9487	63.	0.722	
24030.184	4160.2601	256.	1.032	6,1R25
24027.305	4160.7584	15.	0.516	
24025.805	4161.0183	72.	1.238	
24023.070	4161.4920	3840.	1.134	4,2P10;3,2P5
24020.409	4161.9531	240.	1.753	4,1R21
24018.851	4162.2230	18.	0.412	
24017.800	4162.4052	18.	0.618	
24016.581	4162.6165	74.	0.618	
24015.307	4162.8373	405.	1.030	7,3R10
24013.718	4163.1126	12.	0.515	
24011.842	4163.4380	40.	0.618	
24010.362	4163.6947	960.	1.339	5,2R15
24008.319	4164.0489	40.	0.515	
24007.300	4164.2256	38.	0.618	6,3R0;1,1R14
24005.439	4164.5485	89.	1.132	6,3R1
24003.798	4164.8332	32.	0.721	
24002.730	4165.0185	14.	0.412	
24001.417	4165.2464	124.	1.029	
23999.855	4165.5174	188.	0.720	
23998.420	4165.7665	104.	0.926	
23996.792	4166.0492	35.	0.617	
23995.224	4166.3215	512.	1.131	6,3R2
23992.959	4166.7147	960.	1.028	5,1P22
23991.323	4166.9988	3840.	1.131	3,2R7
23989.739	4167.2741	366.	0.822	8,3P13
23988.718	4167.4514	46.	0.411	
23987.883	4167.7355	591.	1.644	6,3P1;3,1R19;6,1P24
23984.425	4168.1974	43.	0.822	
23981.616	4168.6856	62.	0.514	
23980.625	4168.8579	296.	0.924	7,3P9;1,1P13
23979.139	4169.1161	768.	0.924	4,1P20
23977.237	4169.4469	203.	1.129	6,3R3
23975.597	4169.7321	36.	0.719	
23973.639	4170.0726	12.	0.411	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23972.787	4173.2259	14.	0.410	
23971.875	4173.3795	15.	0.513	
23969.560	4173.7823	131.	0.821	10,4R10
23967.857	4171.0875	1920.	0.821	3,2P6
23965.916	4171.4166	1098.	1.743	6,3P2;5,2P14;4,2R12
23963.832	4171.7794	14.	0.615	
23961.909	4172.1141	25.	0.718	
23959.250	4172.5771	17.	0.410	
23958.225	4172.7557	275.	0.615	7,1P26
23957.308	4172.9154	96.	0.410	
23956.199	4173.1086	92.	0.820	
23954.233	4173.4510	39.	0.717	
23951.311	4173.9602	240.	1.024	6,3R4
23948.861	4174.3873	427.	0.819	3,1P18
23946.664	4174.7732	68.	0.717	
23944.116	4175.2145	135.	1.023	
23942.424	4175.5096	164.	1.126	
23940.188	4175.8996	34.	0.511	9,4R1
23939.018	4176.1037	76.	0.818	2,1R17
23936.236	4176.5890	384.	1.125	10,4P9;6,3P3
23934.599	4176.8747	480.	0.920	7,3R11
23932.891	4177.1728	591.	1.227	
23930.964	4177.5092	1920.	1.431	9,4R2;3,2R8
23929.361	4177.7891	70.	0.613	
23927.986	4178.0291	1280.	0.920	4,2P11
23926.623	4178.2671	51.	0.613	
23925.147	4178.5249	15.	0.511	
23924.041	4178.7181	24.	0.715	
23922.686	4178.9547	349.	0.919	9,4P1;8,3R15
23921.522	4179.1581	17.	0.408	
23920.300	4179.3716	15.	0.715	
23918.667	4179.6569	126.	0.919	
23917.400	4179.8784	256.	0.612	6,3R5
23915.801	4180.1577	143.	1.225	
23913.025	4180.6431	93.	0.816	9,4R3
23911.349	4180.9361	17.	0.510	
23910.405	4181.1011	16.	0.408	
23909.339	4181.2877	14.	0.510	
23908.014	4181.5194	13.	0.510	
23906.968	4181.7023	27.	0.510	
23905.858	4181.8964	233.	0.714	2,1P16
23904.128	4182.1991	1536.	1.427	3,2P7
23901.968	4182.5770	115.	0.713	9,4P2
23901.047	4182.7382	35.	0.510	
23898.762	4183.1383	183.	0.815	6,3P4
23896.941	4183.4569	452.	1.019	7,3P10
23894.240	4183.9299	26.	1.120	
23890.918	4184.5116	133.	1.527	10,4R11
23889.255	4184.8030	30.	0.407	
23888.302	4184.9700	140.	0.509	9,4R4
23887.100	4185.1505	768.	0.915	5,2R16
23885.587	4185.4457	23.	0.509	
23884.662	4185.6077	16.	0.509	
23883.808	4185.7573	13.	0.407	
23881.818	4186.1062	109.	0.915	1,1R15
23879.302	4186.5472	45.	0.712	
23878.180	4186.7440	34.	0.407	
23876.448	4187.0477	256.	0.610	8,3P14
23875.610	4187.1946	285.	0.712	6,3R6
23874.460	4187.3964	26.	0.407	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23873.209	4187.6158	52.	0.711	9,4P3
23871.230	4187.9629	33.	1.016	
23869.191	4188.3208	24.	1.219	
23867.819	4188.5615	17.	0.406	
23866.637	4188.7689	31.	0.711	
23865.162	4189.0278	2560.	1.219	4,2R13
23862.361	4189.5194	1536.	1.523	3,2R9
23860.361	4189.8707	29.	0.711	
23859.140	4190.0851	23.	0.609	
23857.271	4190.4133	44.	0.609	
23855.124	4190.7905	308.	1.217	9,4R5
23853.399	4191.0937	256.	0.913	6,3P5
23851.381	4191.4483	12.	0.608	
23849.854	4191.7165	296.	1.014	
23847.632	4192.1071	214.	1.115	5,1R24
23846.331	4192.3358	480.	0.608	7,3R12
23845.217	4192.5316	226.	0.603	4,1R22
23844.335	4192.6867	38.	0.405	
23843.079	4192.9076	101.	0.709	2,2R0
23841.518	4193.1823	349.	0.811	5,2P15
23840.581	4193.3470	203.	0.709	2,2R1
23838.136	4193.7772	38.	0.608	
23836.810	4194.0103	87.	1.013	9,4P4
23834.346	4194.4439	61.	0.911	
23832.546	4194.7608	1920.	1.518	3,2P8
23830.052	4195.1998	452.	0.708	2,2R2
23828.869	4195.4080	275.	0.607	6,1R26
23827.385	4195.6693	100.	0.809	
23826.200	4195.8781	248.	0.506	6,3R7
23825.071	4196.0769	768.	1.012	3,1R20;4,2P12
23822.996	4196.4423	203.	0.910	2,2P1
23821.388	4196.7257	47.	0.708	
23819.967	4196.9760	13.	0.809	
23818.948	4197.1557	13.	0.404	
23817.942	4197.3329	13.	0.606	
23816.192	4197.6413	13.	0.404	
23815.016	4197.8486	80.	0.707	9,4R6
23813.819	4198.0596	30.	0.505	
23812.619	4198.2711	38.	0.707	
23810.882	4198.5774	768.	0.909	2,2R3
23809.486	4198.8235	33.	0.707	
23807.943	4199.0958	24.	0.606	
23805.967	4199.4442	854.	0.909	7,3P11
23804.700	4199.6678	1280.	0.606	5,1P23;8,3R16
23803.635	4199.8556	549.	0.807	4,1P21
23802.038	4200.1374	17.	0.606	
23800.337	4200.4377	768.	1.211	2,2P2;6,3P6
23798.829	4200.7038	26.	0.606	
23796.979	4201.0304	27.	1.110	
23795.321	4201.3231	49.	1.009	
23792.996	4201.7337	109.	0.706	9,4P5
23791.664	4201.9689	179.	0.605	
23790.513	4202.1723	73.	0.706	2,1R18
23788.297	4202.5636	33.	0.705	
23785.913	4202.9849	2560.	2.721	3,2R10;1P19;6,1P25
23783.470	4203.4166	960.	0.806	2,2R4
23782.352	4203.6142	44.	0.604	
23780.642	4203.9166	12.	0.705	
23779.418	4204.1328	29.	0.503	
23778.462	4204.3019	56.	0.604	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23777.438	4204.4230	23.	0.503
23775.630	4204.8027	85.	0.906
23773.782	4205.1296	296.	1.208
23772.366	4205.3800	16.	0.402
23771.365	4205.5571	25.	0.503
23769.750	4205.8430	334.	0.704
23768.739	4206.0218	275.	0.704
23766.850	4206.3562	151.	1.307
23765.380	4206.6163	54.	0.603
23764.276	4206.8117	15.	0.503
23763.218	4206.9990	17.	0.603
23760.450	4207.4891	53.	1.005
23759.140	4207.7212	35.	0.603
23756.919	4208.1145	1280.	2.612
23753.469	4208.7257	3840.	1.004
23752.145	4208.9603	78.	0.502
23750.641	4209.2269	768.	1.305
23748.679	4209.5747	28.	0.402
23747.433	4209.7954	699.	1.305
23745.322	4210.1698	403.	1.204
23743.806	4210.4385	24.	0.602
23741.804	4210.7937	171.	0.702
23740.626	4211.0026	206.	0.502
23739.535	4211.1961	329.	0.702
23737.690	4211.5233	26.	0.602
23736.081	4211.8089	48.	0.902
23734.556	4212.0796	174.	0.902
23732.141	4212.5082	739.	1.002
23730.404	4212.8166	633.	1.303
23728.966	4213.0719	32.	0.601
23725.149	4213.7497	39.	0.701
23723.845	4213.9812	12.	0.501
23723.118	4214.1103	12.	0.401
23722.043	4214.3015	25.	0.601
23720.896	4214.5052	46.	0.701
23719.367	4214.7768	108.	0.801
23717.048	4215.1889	131.	1.101
23715.149	4215.5266	1477.	1.101
23713.039	4215.9016	114.	0.600
23711.845	4216.1140	171.	0.600
23710.775	4216.3041	99.	0.700
23709.191	4216.5858	591.	1.000
23707.489	4216.8886	453.	1.000
23705.439	4217.2533	14.	0.400
23703.686	4217.5651	1266.	1.499
23700.715	4218.0939	2215.	1.299
23698.935	4218.4107	16.	0.400
23697.781	4218.6162	329.	0.799
23696.747	4218.8001	49.	0.499
23695.789	4218.9708	29.	0.499
23694.765	4219.1531	14.	0.499
23693.735	4219.3364	13.	0.599
23692.616	4219.5357	12.	0.499
23691.743	4219.6912	12.	0.499
23690.701	4219.8769	14.	0.599
23688.648	4220.2427	13.	0.499
23687.667	4220.4174	14.	0.499
23685.371	4220.8265	15.	0.399
23684.403	4220.9990	53.	0.499
23683.172	4221.2185	682.	1.297

2,2P3
6,3R8
10,4P11;9,4R7

5,2R17;2,1P17;4,2R14
3,2P9
7,3R13
1,1R16;2,2R5
9,4P6
6,3P7
2,2P4
1,1P15
4,2P13
10,4R13
9,4R8
5,2P16
7,3P12
6,3R9;2,2R6
3,2R11
9,4P7;2,2P5

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23681.365	4221.5405	28.	0.499
23679.664	4221.8438	633.	0.997
23677.518	4222.2263	83.	1.296
23675.802	4222.5324	33.	0.593
23674.597	4222.7473	36.	0.593
23672.837	4223.0613	15.	0.598
23671.255	4223.3435	806.	1.195
23667.926	4223.9376	55.	0.597
23667.273	4224.0541	78.	0.398
23666.098	4224.2638	2215.	1.095
23664.602	4224.5309	23.	0.597
23662.852	4224.8433	222.	0.796
23661.586	4225.0695	28.	0.498
23660.054	4225.3430	43.	0.696
23658.731	4225.5792	28.	0.497
23657.833	4225.7397	30.	0.398
23657.033	4225.8826	30.	0.398
23655.628	4226.1336	131.	1.293
23654.071	4226.4118	93.	0.796
23652.621	4226.6708	247.	0.395
23651.114	4226.9403	2954.	0.994
23649.141	4227.2928	92.	0.696
23647.887	4227.5171	403.	0.596
23646.878	4227.6975	174.	0.696
23645.397	4227.9622	193.	0.894
23643.729	4228.2605	13.	0.497
23642.421	4228.4945	64.	0.497
23641.155	4228.7209	4430.	1.092
23639.639	4228.9921	36.	0.596
23638.499	4229.1959	30.	0.496
23637.493	4229.3759	66.	0.596
23635.529	4229.7274	12.	0.397
23634.243	4229.9576	63.	0.794
23632.495	4230.2705	51.	0.794
23631.138	4230.5134	355.	0.794
23629.331	4230.8369	492.	0.694
23627.930	4231.0878	1477.	1.091
23625.703	4231.4866	45.	0.595
23624.160	4231.7629	15.	0.595
23622.753	4232.0150	100.	0.496
23621.686	4232.2063	985.	0.392
23620.077	4232.4944	41.	0.694
23618.737	4232.7347	1477.	0.892
23617.652	4232.9292	493.	0.395
23616.905	4233.0630	193.	0.395
23615.841	4233.2538	74.	0.594
23613.131	4233.7396	151.	1.183
23611.629	4234.0089	16.	0.495
23610.159	4234.2725	591.	0.990
23608.088	4234.6440	8860.	1.089
23606.548	4234.9203	206.	0.990
23604.632	4235.2639	49.	0.396
23603.699	4235.4314	52.	0.693
23601.837	4235.7655	682.	1.484
23599.505	4236.1841	32.	0.692
23597.669	4236.5138	2954.	1.384
23595.604	4236.8846	806.	0.890
23593.688	4237.2285	55.	0.395
23592.897	4237.3706	261.	0.692
23590.548	4237.7925	1772.	1.087

ASSIGNMENT
(v', v'', Branch J)

8,3R17

6,3P8

3,2P10

4,1R23

3,1R21

5,1R25

2,2R7

9,4R9

7,3R14

4,2R15

6,3R10

8,3P16

2,2P6

4,1P22

5,2R18

3,1P20

9,4P8

10,4R14

5,1P24

3,2R12

1,1R17

7,3P13

4,2P14

6,3P9

2,2R8

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
23589.099	4238.0529	49.	0.592	
23587.341	4238.3687	117.	0.593	
23586.379	4238.5416	76.	0.593	
23584.748	4238.8347	24.	1.185	
23583.206	4239.1119	23.	0.494	
23582.103	4239.3101	37.	0.592	
23581.274	4239.4593	51.	0.494	
23579.137	4239.8435	1266.	1.875	6,1P26
23575.337	4240.5269	73.	0.691	
23573.933	4240.7794	52.	0.789	
23572.331	4241.0677	75.	0.493	
23571.264	4241.2597	806.	0.887	3,2P11
23570.004	4241.4864	306.	0.590	5,2P17
23568.877	4241.6892	115.	0.591	10,4P13
23567.203	4241.9904	93.	0.887	
23564.706	4242.4401	168.	0.985	2,2P7
23563.621	4242.6354	23.	0.394	
23561.782	4242.9666	22.	0.394	
23550.276	4245.0395	87.	0.385	6,3R11
23548.668	4245.3295	23.	0.385	
23547.133	4245.6062	178.	1.345	8,3R18
23545.636	4245.8762	28.	0.385	
23544.932	4246.0030	28.	0.481	
23543.826	4246.2024	101.	0.481	9,4P9
23543.034	4246.3453	178.	0.577	
23540.694	4246.7675	159.	1.155	
23538.368	4247.1872	1526.	0.770	
23537.132	4247.4101	694.	0.573	7,3R15
23536.103	4247.5959	35.	0.385	
23535.143	4247.7691	33.	0.577	
23533.552	4248.0563	23.	0.481	
23532.285	4248.2851	33.	0.481	
23529.944	4248.7076	30.	0.577	
23528.187	4249.0249	39.	0.577	
23526.607	4249.3103	694.	0.865	1,2R0
23525.431	4249.5227	111.	0.480	
23523.901	4249.7991	191.	0.768	1,2R1
23521.035	4250.3169	8630.	1.056	2,2R9
23518.973	4250.6896	109.	0.768	
23517.408	4250.9725	8630.	0.960	4,2R16
23516.275	4251.1773	51.	0.384	
23515.353	4251.3440	29.	0.480	
23513.036	4251.7629	264.	0.572	1,2R2
23511.726	4251.9998	763.	0.863	6,3P10
23510.506	4252.2204	47.	0.480	
23509.543	4252.3946	34.	0.384	
23508.733	4252.5412	50.	0.575	
23506.594	4252.9281	8630.	1.530	1,2P1;3,2R13
23504.302	4253.3428	28.	0.671	
23503.125	4253.5559	43.	0.479	
23502.259	4253.7127	55.	0.479	
23501.018	4253.9373	102.	0.671	9,4R11
23500.119	4254.1001	48.	0.383	
23498.605	4254.3741	8630.	0.862	
23497.521	4254.5704	54.	0.383	
23496.521	4254.7514	77.	0.575	
23495.773	4255.0137	567.	0.766	8,3P17
23493.780	4255.2479	347.	0.570	1,2R3
23492.333	4255.5099	8630.	1.245	2,2P8
23490.774	4255.7923	21.	0.479	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23459.029	4254.1026	1526.	0.562	7,3P14
23486.545	4256.5043	283.	0.766	
23485.696	4256.7126	144.	0.574	
23423.660	4257.0816	137.	0.765	1,2P2
23481.909	4257.3991	42.	1.143	
23480.357	4257.6805	25.	0.669	
23478.135	4258.0835	142.	0.569	3,1R22
23476.155	4258.4427	174.	0.765	
23473.446	4258.9341	8630.	1.338	5,2R19;4,1R24
23471.857	4259.2223	8630.	0.860	4,2P15
23469.660	4259.6210	163.	1.146	
23467.895	4259.9414	8630.	1.051	3,2P12
23466.087	4260.2697	545.	0.860	1,2R4
23464.341	4260.5867	57.	0.668	
23462.496	4260.9217	545.	1.523	9,4P10;6,3R12
23460.751	4261.2388	38.	0.573	
23459.316	4261.4993	347.	0.954	10,4P14
23457.645	4261.8029	21.	0.668	
23455.381	4262.2142	32.	0.859	
23452.872	4262.6702	255.	0.858	1,2P3;1,1R18
23450.865	4263.0350	239.	0.668	5,1R26
23449.667	4263.2529	191.	0.572	
23447.283	4263.6863	68.	0.572	
23445.959	4263.9271	74.	0.667	
23443.890	4264.3035	7630.	1.048	2,2R10
23442.609	4264.5365	39.	0.476	
23440.740	4264.8764	424.	1.143	3,1P21
23438.518	4265.2807	191.	0.571	
23437.395	4265.4853	130.	0.667	
23434.986	4265.9237	45.	0.762	
23433.735	4266.1514	40.	0.571	
23432.476	4266.3806	477.	0.952	4,1P23
23430.002	4266.8312	636.	0.856	1,2R5
23428.698	4267.0685	41.	0.666	
23427.291	4267.3250	42.	0.571	1,1P17
23426.160	4267.5309	21.	0.381	
23424.492	4267.8349	111.	0.666	
23423.126	4268.0837	1526.	0.855	5,2P18
23420.998	4268.4716	1526.	0.761	
23419.752	4268.6987	233.	0.666	6,3P11
23418.565	4268.9151	18.	0.380	7,3R16
23416.364	4269.3162	72.	0.950	
23414.811	4269.5995	56.	0.666	9,4R12
23413.672	4269.8070	294.	0.570	1,2P4
23412.739	4269.9772	7630.	0.760	2,2P9
23409.906	4270.4940	32.	0.475	
23408.871	4270.6829	2544.	0.665	5,1P25
23407.959	4270.8493	273.	0.570	
23406.394	4271.1347	26.	0.570	
23405.269	4271.3400	57.	0.570	
23404.025	4271.5671	51.	0.759	
23402.913	4271.7700	45.	0.475	
23401.635	4272.0034	28.	0.569	
23399.636	4272.3683	38.	1.423	
23398.122	4272.6447	8630.	0.854	3,2R14
23395.193	4273.1797	8630.	3.604	
23392.236	4273.7200	73.	0.948	10,4R16
23390.398	4274.0557	96.	0.853	
23389.199	4274.2749	51.	0.474	
23386.440	4274.7791	8630.	0.947	1,2R6;4,2R17

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23384.987	4275.0447	545.	1.232	
23382.833	4275.4386	23.	0.758	
23381.255	4275.7272	37.	0.663	
23379.996	4275.9574	24.	0.568	
23378.664	4276.2009	41.	0.663	
23377.495	4276.4148	43.	0.568	
23376.541	4276.5894	61.	0.379	
23375.702	4276.7428	77.	0.473	
23374.650	4276.9353	247.	0.662	9,4P11
23372.514	4277.3262	545.	0.852	
23370.903	4277.6211	101.	0.757	
23369.369	4277.9019	954.	0.851	7,3P15
23367.524	4278.2396	156.	0.473	7,3R13
23366.242	4278.4743	1526.	1.040	1,2P5
23364.648	4278.7662	26.	0.756	
23363.583	4278.9612	22.	0.378	
23362.419	4279.1745	55.	0.756	
23360.166	4279.5871	134.	0.756	
23358.506	4279.8913	7630.	0.756	2,2R11
23357.255	4280.1206	8630.	0.850	3,2P13
23354.660	4280.5961	424.	0.850	8,3P18
23353.518	4280.8055	24.	0.472	
23351.824	4281.1160	23.	0.472	
23350.154	4281.4222	31.	0.566	
23347.957	4281.8251	105.	0.755	
23346.175	4282.1519	182.	1.132	
23344.865	4282.3923	22.	0.472	
23343.284	4282.6824	201.	0.849	10,4P15
23341.903	4282.9357	156.	0.566	
23339.577	4283.3625	8630.	1.132	4,2P16
23337.415	4283.7593	30.	0.943	
23335.274	4284.1524	54.	0.660	
23332.688	4284.6271	477.	1.502	1,2R7
23330.987	4284.9395	22.	0.471	
23330.101	4285.1023	23.	0.471	
23329.235	4285.2614	14.	0.471	
23327.004	4285.6712	43.	1.130	
23325.046	4286.0310	8630.	1.507	2,2P10
23322.926	4286.4207	545.	0.941	6,3P12
23320.937	4286.7862	2544.	0.753	5,2R20
23320.081	4286.9436	332.	0.471	
23318.681	4287.2009	63.	0.659	
23317.309	4287.4532	49.	0.565	
23316.086	4287.6781	13.	0.565	
23314.781	4287.9181	22.	0.847	
23312.613	4288.3168	29.	0.658	
23310.524	4288.7011	545.	0.940	1,2P6
23309.067	4288.9692	32.	0.564	
23307.792	4289.2038	22.	0.470	
23306.914	4289.3654	14.	0.564	
23304.995	4289.7187	954.	1.222	
23302.712	4290.1389	382.	1.034	
23300.577	4290.5321	42.	0.751	
23298.630	4290.8906	26.	0.470	
23297.622	4291.0763	43.	0.563	
23295.442	4291.4779	218.	0.845	7,3R17
23293.821	4291.7764	81.	1.033	3,1R23
23292.074	4292.0984	106.	0.751	1,1R19
23290.776	4292.3376	13.	0.375	
23289.540	4292.5654	49.	0.751	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23288.658	4292.7220	36.	0.375	
23288.082	4292.8342	29.	0.469	
23286.020	4293.2143	30.	0.933	
23284.004	4293.5859	44.	0.656	
23281.622	4294.0253	8630.	1.031	3,2R15
23280.041	4294.3170	118.	0.656	9,4P12
23278.163	4294.6633	225.	0.750	4,1R25
23276.916	4294.8935	132.	0.655	
23273.897	4295.4507	38.	0.656	
23272.439	4295.7197	72.	1.124	10,4R17
23271.031	4295.9796	694.	0.562	1,2R8
23269.788	4296.2091	1090.	0.749	5,2P19
23268.250	4296.4914	72.	1.030	1,1P18
23266.277	4296.8573	139.	0.655	
23264.752	4297.1391	8630.	1.030	6,3R14;2,2R12
23263.202	4297.4254	212.	0.749	8,3R20
23260.093	4297.9998	45.	0.561	
23259.458	4298.1171	40.	0.374	
23258.659	4298.2648	27.	0.655	
23257.310	4298.5141	232.	0.842	3,1R22
23255.398	4298.8675	14.	0.748	
23254.543	4299.0257	13.	0.374	
23252.835	4299.3413	40.	0.467	
23251.916	4299.5114	28.	0.467	
23250.873	4299.7043	22.	0.561	
23249.501	4299.9579	156.	0.935	
23247.960	4300.2430	8630.	0.934	4,2R18
23246.632	4300.4885	694.	0.654	1,2P7
23245.656	4300.6692	32.	0.467	
23244.415	4300.8988	27.	0.654	
23242.849	4301.1885	1272.	1.121	7,3P16
23241.498	4301.4235	36.	0.560	
23239.316	4301.8425	8630.	1.120	3,2P14
23237.006	4302.2701	382.	0.747	4,1P24
23235.729	4302.5067	29.	0.467	
23234.674	4302.7020	13.	0.560	
23233.459	4302.9270	46.	0.653	
23230.798	4303.4198	62.	0.560	
23229.650	4303.6326	8630.	0.933	2,2P11
23228.056	4303.9279	47.	1.119	
23226.931	4304.1364	28.	0.373	
23225.828	4304.3408	65.	0.746	9,4R14
23223.760	4304.7240	29.	0.559	
23222.234	4305.0068	34.	0.652	
23220.760	4305.2802	142.	0.745	10,4P16
23218.664	4305.6689	36.	0.466	
23217.653	4305.8563	545.	0.832	6,3P13
23216.301	4306.1070	69.	0.652	
23214.875	4306.3715	424.	0.931	
23212.625	4306.7891	37.	0.559	
23211.351	4307.0254	13.	0.465	
23210.023	4307.2718	33.	0.652	
23208.764	4307.5055	42.	0.465	
23207.751	4307.6935	332.	0.744	8,3P19
23206.417	4307.9412	42.	1.024	
23203.354	4308.5099	46.	0.558	
23201.845	4308.7901	347.	0.651	5,1P26
23201.107	4308.9272	424.	0.372	1,2R9
23199.776	4309.1744	8630.	1.209	4,2P17
23197.044	4309.6818	120.	1.023	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23195.715	4309.9288	28.	0.372	
23194.691	4310.1191	49.	0.551	
23191.975	4310.6239	84.	0.743	
23190.066	4310.9787	23.	0.836	
23188.792	4311.2156	150.	0.743	
23186.879	4311.5712	27.	0.464	
23185.930	4311.7478	38.	0.557	
23184.797	4311.9584	41.	0.650	
23183.733	4312.1563	12.	0.371	
23182.445	4312.3959	45.	0.557	
23180.401	4312.7761	43.	0.557	
23178.405	4313.1475	93.	0.835	9,4P13
23176.600	4313.4835	23.	0.557	
23174.560	4313.8633	587.	1.020	1,2P8
23172.704	4314.2088	25.	0.549	
23170.610	4314.5986	51.	0.927	
23168.439	4315.0029	47.	0.463	
23167.403	4315.1960	125.	0.649	
23164.955	4315.6520	34.	0.463	
23164.170	4315.7983	170.	0.556	7,3R18
23162.920	4316.0311	1908.	0.834	2,2R13
23161.487	4316.2982	1526.	0.926	5,2R21
23160.206	4316.5369	23.	0.463	
23159.143	4316.7350	21.	0.463	
23157.367	4317.0662	7630.	1.018	3,2R16
23155.723	4317.3725	55.	0.555	
23154.795	4317.5456	71.	0.740	6,3R15
23153.036	4317.8737	21.	0.740	
23151.094	4318.2358	32.	1.110	
23148.250	4318.7663	318.	0.647	
23147.169	4318.9680	247.	0.555	
23145.206	4319.3343	45.	0.925	10,4R18
23143.383	4319.6747	48.	0.925	
23141.705	4319.9878	15.	0.739	
23139.468	4320.4055	57.	0.739	
23137.917	4320.6952	12.	0.462	
23137.156	4320.8373	13.	0.370	
23135.656	4321.1174	28.	1.109	
23133.105	4321.5940	56.	0.646	
23131.360	4321.9199	22.	0.646	
23130.249	4322.1274	14.	0.462	
23128.750	4322.4076	90.	0.831	
23127.244	4322.6891	59.	0.369	
23126.300	4322.8656	7630.	0.923	2,2P12
23125.103	4323.0823	30.	0.369	
23124.385	4323.2236	23.	0.461	
23122.749	4323.5294	402.	0.923	1,2R10
23120.255	4323.9258	16.	1.199	9,4R15
23118.157	4324.3882	29.	0.553	
23116.472	4324.7035	20.	0.553	
23115.099	4324.9604	22.	0.553	
23113.705	4325.2212	8630.	1.106	3,2P15
23111.547	4325.6251	509.	1.382	
23109.700	4325.9708	3815.	1.198	5,2P20
23108.254	4326.2415	15.	0.368	
23105.493	4326.7585	364.	1.105	6,3P14
23102.249	4327.3660	1908.	1.749	4,2R19
23100.426	4327.7076	71.	0.552	
23099.424	4327.6953	42.	0.644	
23097.735	4328.2117	49.	0.920	

				ASSIGNMENT (v', v'', Branch J)
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
23096.136	4325.5113	17.	0.460	
23094.382	4325.8402	545.	1.012	1,2P9
23093.010	4325.0973	38.	0.552	
23091.642	4329.3538	123.	1.104	10,4P17
23089.921	4329.6765	54.	0.736	
23088.814	4329.8841	30.	0.460	
23087.727	4330.0879	66.	0.643	
23086.572	4330.3046	24.	0.551	
23084.341	4330.7230	21.	0.551	
23082.507	4331.0672	12.	0.368	
23081.099	4331.3314	44.	0.643	
23080.112	4331.5166	24.	0.367	
23078.998	4331.7257	36.	0.551	
23077.679	4331.9733	39.	0.643	
23075.727	4332.3399	15.	0.643	
23074.361	4332.5963	105.	0.551	4,1R26
23073.340	4332.7880	212.	0.643	
23071.120	4333.2049	33.	0.826	
23069.978	4333.4193	66.	0.551	9,4P14
23067.934	4333.8034	27.	0.459	
23066.897	4333.9982	150.	0.642	3,1P23
23065.557	4334.2499	26.	0.550	
23063.521	4334.6326	14.	0.642	
23061.745	4334.9665	13.	0.458	
23061.047	4335.0976	12.	0.367	
23060.182	4335.2603	14.	0.458	
23058.692	4335.5404	26.	0.733	
23057.326	4335.7973	13.	0.733	
23055.751	4336.0934	28.	0.458	
23054.611	4336.3080	306.	0.733	8,3P20
23053.176	4336.5779	8630.	1.099	2,2R14;4,2P18
23051.149	4336.9591	16.	0.549	
23050.080	4337.1603	14.	0.641	
23048.044	4337.5434	150.	0.916	
23046.396	4337.8535	24.	0.549	
23044.687	4338.1753	17.	0.458	
23043.542	4338.3909	42.	0.641	
23042.473	4338.5922	48.	0.641	
23040.523	4338.9593	13.	0.457	
23039.243	4339.2003	14.	0.457	
23038.009	4339.4328	52.	0.640	6,3R16
23036.080	4339.7963	273.	0.549	1,2R11
23035.107	4339.9795	218.	0.549	4,1P25
23032.241	4340.5196	207.	2.377	
23030.287	4340.8879	28.	0.366	
23029.054	4341.1202	108.	0.731	
23027.521	4341.4093	16.	0.822	
23025.591	4341.7732	1908.	1.736	3,2R17
23023.529	4342.1620	163.	0.731	
23022.193	4342.4141	101.	0.457	
23020.923	4342.6535	306.	1.187	
23018.460	4343.1182	16.	0.456	
23017.499	4343.2995	14.	0.548	
23015.148	4343.7433	1526.	1.095	2,2P13
23013.595	4344.0365	21.	0.365	
23012.801	4344.1862	24.	0.547	
23011.319	4344.4660	35.	1.003	10,4R19
23008.538	4344.9818	69.	0.638	
23007.326	4345.2201	72.	0.635	9,4R16
23006.024	4345.4661	509.	0.820	1,2P10

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23004.504	4345.7532	15.	0.455	
23003.722	4345.9002	16.	0.456	
23002.546	4346.1231	14.	0.638	
23001.388	4346.3418	21.	0.547	
22999.756	4346.6503	55.	0.638	
22998.483	4346.8908	16.	0.364	
22997.432	4347.0896	23.	0.911	
22995.649	4347.4266	1526.	1.275	5,2R22
22993.216	4347.8866	28.	0.546	
22991.803	4348.1538	44.	0.637	
22990.553	4348.3903	41.	0.546	
22989.487	4348.5919	60.	0.364	
22988.487	4348.7811	332.	1.092	
22986.140	4349.2250	218.	0.819	6,3P15
22984.749	4349.4832	98.	0.637	
22983.463	4349.7317	29.	0.546	
22980.601	4350.2733	8630.	1.364	3,2P16
22977.456	4350.8688	67.	0.727	
22976.224	4351.1021	34.	0.364	
22975.130	4351.3094	144.	0.818	
22973.250	4351.6655	47.	0.363	
22972.580	4351.7923	57.	0.454	
22971.180	4352.0576	87.	0.545	
22969.866	4352.3066	402.	0.817	7,3P18
22968.105	4352.6402	283.	0.726	
22966.822	4352.8834	63.	0.636	
22965.623	4353.1107	18.	0.363	
22963.983	4353.4216	105.	0.726	
22961.417	4353.9080	27.	0.544	
22960.101	4354.1576	57.	0.635	
22958.183	4354.5213	24.	0.907	
22956.669	4354.8086	134.	0.635	10,4P18
22955.821	4354.9694	82.	0.363	
22954.735	4355.1755	90.	0.725	
22953.079	4355.4893	92.	0.725	9,4P15
22951.350	4355.8179	12.	0.635	8,3R22
22950.174	4356.0411	36.	0.363	
22949.262	4356.2142	1272.	0.997	4,2R20
22947.702	4356.5103	33.	0.906	
22945.959	4356.8412	31.	0.634	
22944.686	4357.0829	31.	0.634	
22943.328	4357.3409	954.	0.996	5,2P21
22940.813	4357.8155	232.	0.815	1,2R12
22939.369	4358.0930	111.	0.996	
22937.813	4358.3554	56.	0.815	
22936.519	4358.6343	21.	0.453	
22935.293	4358.8675	694.	0.905	2,2R15
22932.913	4359.3197	16.	0.633	
22931.263	4359.6334	34.	0.633	
22930.274	4359.8214	46.	0.543	
22929.157	4360.0338	13.	0.362	
22927.678	4360.3152	19.	0.633	1,1P20
22926.694	4360.5022	15.	0.362	
22924.304	4360.9569	191.	0.633	
22922.408	4361.3177	36.	0.633	
22921.087	4361.5691	16.	0.723	
22918.875	4361.9899	19.	0.994	
22917.640	4362.2250	13.	0.361	
22914.834	4362.7592	18.	0.452	
22913.909	4362.9354	21.	0.632	6,3R17

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22912.726	4363.1606	13.	0.451	
22911.417	4363.4098	16.	0.451	
22909.659	4363.7445	448.	0.312	1,2P11
22908.484	4363.9585	34.	0.541	
22907.147	4364.2233	13.	0.632	
22905.891	4364.4626	16.	0.451	
22904.807	4364.6691	53.	0.541	
22903.456	4364.9265	34.	0.992	
22901.998	4365.2044	48.	0.631	
22899.843	4365.6152	1790.	1.172	4,2P19;3,3R0
22898.314	4365.9066	82.	0.631	3,3R1
22896.353	4366.2807	1790.	0.901	2,2P14
22895.133	4366.5134	264.	0.541	8,3P21
22893.147	4366.8921	78.	0.721	
22891.339	4367.2371	26.	0.541	
22890.314	4367.4326	14.	0.360	
22888.466	4367.7853	145.	0.720	3,3R2
22887.152	4368.0359	65.	0.540	
22885.963	4368.2630	1279.	0.990	3,2R18
22884.771	4368.4906	16.	0.450	
22883.374	4368.7572	123.	0.720	
22881.423	4369.1298	55.	0.540	7,3R20
22880.487	4369.3085	37.	0.450	3,3P1
22878.911	4369.6094	20.	0.900	
22876.973	4369.9796	42.	0.450	
22876.099	4370.1465	79.	0.540	
22873.476	4370.6477	22.	0.360	
22872.715	4370.7930	33.	0.539	
22871.823	4370.9635	21.	0.360	10,4R20
22870.729	4371.1726	183.	0.539	3,3R3
22869.848	4371.3411	112.	0.629	3,1P24
22868.549	4371.5894	78.	0.629	
22867.541	4371.7821	15.	0.449	
22866.041	4372.0689	36.	0.359	
22865.162	4372.2369	64.	0.719	
22863.475	4372.5596	41.	0.808	
22860.074	4373.2100	140.	0.629	6,3P16
22858.809	4373.4521	63.	0.628	3,3P2
22856.597	4373.8754	15.	0.539	
22855.863	4374.0159	15.	0.449	
22853.896	4374.3923	23.	0.808	
22851.849	4374.7841	15.	0.713	
22850.325	4375.0760	50.	0.628	
22847.948	4375.5311	25.	0.897	
22846.720	4375.7663	28.	0.448	
22845.856	4375.9318	31.	0.359	
22844.897	4376.1156	289.	0.717	3,3R4
22842.614	4376.5528	15.	0.535	
22840.554	4376.9476	4475.	0.986	3,2P17
22839.170	4377.2128	157.	0.627	
22838.200	4377.3938	39.	0.448	
22837.259	4377.5792	169.	0.537	1,2R13
22836.061	4377.8087	407.	0.806	
22834.375	4378.1321	16.	0.358	
22833.339	4378.3307	56.	0.716	9,4P16
22832.077	4378.5728	16.	0.537	
22830.786	4378.8203	14.	0.985	
22829.325	4379.1006	111.	0.627	3,3P3
22828.083	4379.3337	56.	0.805	
22827.213	4379.5057	183.	0.537	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
22826.254	4379.6278	163.	0.537	4,1P26
22824.759	4373.9765	21.	0.358	
22823.803	4380.1601	236.	0.626	7,3P19
22822.758	4380.3606	640.	0.716	5,2R23
22821.779	4380.5485	21.	0.358	
22820.921	4380.7132	14.	0.447	
22818.450	4381.1875	91.	0.715	
22817.096	4381.4476	53.	0.626	
22816.037	4381.6510	21.	0.447	
22814.940	4381.8617	101.	0.804	10,4P19
22813.127	4382.2098	12.	0.357	
22811.338	4382.5536	471.	0.893	3,3R5
22809.537	4382.8996	640.	1.072	2,2R16
22807.287	4383.3319	16.	0.446	
22806.284	4383.5248	128.	0.536	
22805.092	4383.7539	427.	0.893	1,2P12
22803.323	4384.0941	195.	0.714	
22801.261	4384.4904	78.	0.892	
22799.491	4384.8307	99.	0.714	
22797.655	4385.1840	15.	0.446	
22796.350	4385.3965	32.	0.535	
22795.174	4385.6613	14.	0.446	
22794.368	4385.8163	13.	0.446	
22793.427	4385.9974	13.	0.535	
22791.973	4386.2773	199.	0.802	3,3P4
22790.729	4386.5166	46.	0.535	
22789.486	4386.7558	1790.	0.802	4,2R21
22788.422	4386.9607	93.	0.713	
22786.911	4387.2516	24.	0.713	
22785.849	4387.4561	28.	0.535	
22782.950	4388.0144	236.	0.502	
22781.790	4388.2377	35.	0.534	
22779.822	4388.6169	24.	0.534	
22778.149	4388.9393	31.	0.979	
22777.135	4389.1346	17.	0.356	
22775.383	4389.4722	15.	0.623	
22774.158	4389.7084	70.	0.712	
22772.089	4390.1072	15.	0.712	
22770.098	4390.4912	2238.	1.501	3,3R6;2,2P15;5,2P22
22767.876	4390.9196	34.	0.445	
22767.059	4391.0773	44.	0.445	6,4R1
22764.428	4391.5846	95.	0.622	
22763.573	4391.7497	69.	0.356	
22762.762	4391.9061	57.	0.533	
22761.681	4392.1147	142.	0.622	
22760.662	4392.3114	29.	0.444	
22759.432	4392.5487	28.	0.800	
22757.863	4392.8516	25.	0.622	6,4R2
22756.483	4393.1180	21.	0.533	
22753.960	4393.6051	17.	0.622	
22752.909	4393.8080	16.	0.533	
22751.748	4394.0323	13.	0.444	
22750.556	4394.2624	30.	0.533	
22749.461	4394.4739	28.	0.533	6,4P1
22748.178	4394.7220	16.	0.621	
22746.816	4394.9851	249.	0.887	3,3P5
22745.023	4395.3314	28.	0.532	
22743.461	4395.6334	15.	0.532	
22741.323	4396.0467	123.	1.242	6,4R3
22739.340	4396.4300	4475.	1.153	3,2R19;4,2P20

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
22737.455	4395.7544	32.	0.709
22735.945	4397.0864	35.	1.064
22733.895	4397.4829	76.	0.532
22732.642	4397.7253	59.	0.520
22730.748	4398.0919	187.	0.520
22729.757	4398.2835	236.	0.709
22728.555	4398.5162	40.	0.443
22727.395	4398.7406	98.	0.797
22725.317	4399.1429	145.	0.708
22722.980	4399.5954	136.	1.328
22720.443	4400.0867	597.	1.327
22718.986	4400.3688	13.	0.354
22717.899	4400.5794	17.	0.354
22716.869	4400.7788	195.	0.708
22715.519	4401.0404	239.	0.584
22713.389	4401.4531	42.	0.707
22712.175	4401.6884	44.	0.707
22710.569	4401.9803	16.	0.530
22709.340	4402.2379	50.	0.707
22707.920	4402.5132	23.	0.584
22706.436	4402.8011	13.	0.353
22705.450	4402.9921	28.	0.615
22703.409	4403.3879	15.	0.795
22702.140	4403.6341	17.	0.530
22701.191	4403.8183	18.	0.353
22700.172	4404.0159	123.	0.795
22697.618	4404.5115	40.	0.615
22696.460	4404.7363	126.	0.794
22695.210	4404.9789	157.	0.613
22694.080	4405.1982	254.	0.613
22692.841	4405.4387	895.	1.147
22691.562	4405.6870	15.	0.353
22690.539	4405.8557	13.	0.582
22688.512	4406.2792	12.	0.529
22687.737	4406.4297	12.	0.441
22685.043	4406.9530	213.	0.793
22683.582	4407.2369	30.	1.058
22681.923	4407.5592	15.	0.353
22681.101	4407.7189	32.	0.441
22680.133	4407.9071	34.	0.617
22678.514	4408.2218	21.	0.617
22676.125	4408.6862	390.	0.381
22674.476	4409.0069	24.	0.528
22673.189	4409.2571	57.	0.792
22671.175	4409.6489	191.	0.792
22669.313	4410.0112	14.	0.616
22667.608	4410.3428	41.	0.528
22666.225	4410.6119	101.	1.232
22664.390	4410.9690	35.	0.528
22663.350	4411.1714	640.	0.792
22662.162	4411.4027	13.	0.352
22660.719	4411.6836	34.	1.143
22658.779	4412.0614	15.	0.352
22657.645	4412.2820	71.	0.967
22656.319	4412.5405	17.	0.615
22654.604	4412.8745	13.	1.055
22652.350	4413.3135	22.	0.527
22651.306	4413.5169	33.	0.527
22650.247	4413.7233	48.	0.615
22648.768	4414.0115	14.	0.351

ASSIGNMENT
(v', v'', Branch J)

7,3R21

6,4P2

6,3P17

1,2P14

3,3R7

6,4R4

9,4P17

6,4P3

3,3P6

1,2P13;3,2P18

6,4R5

2,2R17

7,3P20

10,4P20

6,4P4

3,3R8

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
22647.547	4414.2496	55.	0.875	
22645.886	4414.5732	320.	0.702	6,4R6
22644.916	4414.7623	309.	0.527	
22643.502	4415.0380	597.	1.229	5,2R24
22641.849	4415.3604	42.	0.614	
22639.763	4415.7672	173.	1.053	
22637.392	4416.2297	32.	1.316	
22635.515	4416.5958	995.	1.403	2,2P16
22633.459	4416.9971	390.	0.877	3,3P7
22631.529	4417.3738	83.	1.052	
22628.112	4418.0408	80.	0.613	
22626.994	4418.2592	13.	0.350	
22626.074	4418.4389	17.	0.526	
22624.841	4418.6797	46.	0.876	
22623.527	4418.9363	107.	0.526	
22622.571	4419.1236	895.	0.701	4,2R22
22620.882	4419.4530	427.	1.576	6,4P5
22618.958	4419.8290	30.	0.438	
22618.131	4419.9905	51.	0.525	
22617.130	4420.1862	31.	0.438	
22616.235	4420.3610	53.	0.613	
22614.409	4420.7180	16.	0.700	
22613.139	4420.9663	118.	0.700	
22611.918	4421.2051	18.	0.612	
22610.036	4421.5730	27.	0.875	
22608.564	4421.8609	16.	0.525	
22607.518	4422.0655	13.	0.525	
22606.561	4422.2527	14.	0.525	
22605.314	4422.4967	96.	0.612	1,2R15
22604.369	4422.6816	56.	0.350	
22603.677	4422.8170	53.	0.524	
22601.382	4423.2661	21.	0.612	
22600.160	4423.5053	128.	0.612	
22598.677	4423.7956	746.	1.485	6,4R7;3,3R9
22596.089	4424.3022	50.	0.611	
22594.397	4424.6335	47.	0.611	
22592.048	4425.0936	219.	0.611	
22591.087	4425.2819	448.	0.693	5,2P23
22590.006	4425.4937	35.	0.524	
22587.861	4425.9139	77.	1.047	6,3P18
22586.507	4426.1791	21.	0.436	
22585.149	4426.4453	689.	0.872	3,2R20
22584.079	4426.6551	62.	0.436	
22583.045	4426.8578	94.	0.611	
22580.762	4427.3054	23.	0.698	
22579.568	4427.5394	18.	0.436	
22578.284	4427.7913	112.	0.785	
22576.442	4428.1525	43.	0.610	
22575.329	4428.3708	63.	0.610	
22573.968	4428.6378	39.	0.523	
22572.067	4429.0107	2954.	1.568	1,2P14;4,2P21
22570.373	4429.3433	173.	0.697	6,4P6
22569.046	4429.6037	54.	0.697	
22567.670	4429.8344	35.	0.610	
22566.490	4430.1054	43.	0.522	
22565.253	4430.3482	527.	0.958	3,3P8
22562.130	4430.9615	15.	1.218	
22560.525	4431.2768	79.	0.609	2,3R0
22559.780	4431.4231	36.	0.348	
22558.533	4431.6680	407.	0.957	2,3R1

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22556.659	4432.0363	19.	0.696	
22554.537	4432.4532	63.	1.130	
22553.077	4432.7401	15.	0.522	
22551.293	4433.0909	16.	0.522	
22549.487	4433.4459	183.	0.695	
22548.498	4433.6403	320.	0.608	2,3R2
22545.899	4434.1515	121.	0.608	
22544.914	4434.3451	407.	0.695	6,4R8
22543.632	4434.5973	25.	0.521	
22542.632	4434.7940	21.	0.434	
22541.721	4434.9733	22.	0.347	
22540.737	4435.1669	74.	0.608	2,3P1
22538.760	4435.5560	1119.	1.042	3,2P19
22536.974	4435.9075	48.	0.868	
22534.827	4436.3300	289.	0.868	2,2R18
22533.698	4436.5524	18.	0.347	
22532.905	4436.7086	21.	0.521	
22530.849	4437.1135	640.	1.214	2,3R3
22528.117	4437.6515	31.	1.301	
22525.916	4438.0852	895.	1.040	3,3R10
22524.397	4438.3845	23.	0.520	
22522.793	4438.7004	14.	0.953	
22521.061	4439.0419	14.	0.607	
22520.022	4439.2467	22.	0.433	
22519.107	4439.4271	191.	0.606	2,3P2
22517.949	4439.6554	289.	0.780	
22515.274	4440.1828	23.	0.520	
22514.217	4440.3914	31.	0.520	
22512.529	4440.7243	498.	0.952	6,4P7;7,3P21
22510.049	4441.2135	43.	1.298	
22508.785	4441.4628	24.	0.519	
22507.281	4441.7596	57.	0.692	
22504.986	4442.2126	597.	0.951	2,3R4
22503.077	4442.5896	42.	0.605	
22500.994	4443.0009	55.	0.865	6,3R20
22498.665	4443.4607	110.	0.864	
22496.155	4443.9565	15.	0.691	
22494.455	4444.2923	448.	1.296	2,2P17
22492.862	4444.6072	21.	0.605	
22490.878	4444.9993	25.	0.432	
22489.499	4445.2718	995.	1.209	3,3P9;2,3P3
22487.631	4445.6410	23.	0.604	
22486.533	4445.8581	26.	0.604	
22484.797	4446.2013	16.	0.432	
22483.633	4446.4315	358.	0.949	6,4R9
22481.852	4446.7839	57.	0.690	
22480.699	4447.0119	13.	0.345	
22479.703	4447.2089	13.	0.690	
22477.996	4447.5467	32.	0.690	
22476.946	4447.7545	80.	0.604	1,2R16
22475.264	4448.0873	15.	0.431	
22474.186	4448.3006	21.	0.604	
22472.937	4448.5479	14.	0.345	
22471.528	4448.8268	746.	1.121	2,3R5
22470.261	4449.0776	83.	0.517	
22468.802	4449.3666	27.	0.517	
22467.830	4449.5491	17.	0.517	
22465.906	4449.9401	29.	0.775	
22463.642	4450.3886	18.	0.431	
22462.922	4450.5313	17.	0.517	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
22461.144	4450.8836	101.	0.689
22459.958	4451.1186	57.	0.603
22458.383	4451.4307	407.	0.861
22456.703	4451.7637	48.	0.602
22455.350	4452.0321	21.	0.430
22454.680	4452.1648	28.	0.430
22453.865	4452.3264	22.	0.516
22452.011	4452.6942	814.	1.204
22449.268	4453.2382	498.	0.860
22447.717	4453.5460	213.	1.204
22445.549	4453.9761	995.	0.945
22444.003	4454.2829	147.	0.773
22442.145	4454.6517	50.	1.289
22440.306	4455.0166	18.	0.515
22438.769	4455.3220	21.	0.344
22437.952	4455.4842	28.	0.601
22435.904	4455.8908	65.	0.687
22433.969	4456.2753	12.	0.343
22432.043	4456.6578	88.	1.202
22429.577	4457.1478	895.	1.116
22427.273	4457.6057	36.	0.355
22425.298	4457.9982	15.	0.343
22423.776	4458.3008	407.	1.029
22421.480	4458.7575	111.	0.857
22420.232	4459.0057	39.	0.772
22417.990	4459.4516	22.	0.514
22417.225	4459.6038	20.	0.514
22415.030	4460.0405	527.	1.028
22413.834	4460.2784	25.	0.428
22412.699	4460.5042	18.	0.942
22410.112	4461.0192	70.	1.199
22408.256	4461.3888	427.	0.771
22406.383	4461.7617	746.	1.883
22404.905	4462.0560	81.	0.513
22403.172	4462.4013	16.	0.599
22401.229	4462.7883	29.	0.428
22400.353	4462.9628	84.	0.684
22398.777	4463.2768	597.	1.197
22396.890	4463.6528	17.	0.428
22395.313	4463.9672	236.	1.624
22393.386	4464.3513	77.	0.684
22391.666	4464.6942	23.	0.427
22390.739	4464.8790	46.	0.684
22389.534	4465.1194	64.	0.513
22388.638	4465.2980	35.	0.598
22387.177	4465.5894	80.	0.683
22385.966	4465.8310	179.	0.769
22384.088	4466.2057	18.	0.939
22382.729	4466.4769	25.	0.512
22381.834	4466.6555	89.	0.598
22380.136	4466.9945	1279.	1.024
22379.228	4467.1757	32.	0.341
22378.202	4467.3805	213.	0.683
22377.293	4467.5620	597.	0.853
22375.196	4467.9807	321.	0.768
22374.111	4468.1974	27.	0.427
22373.142	4468.3909	13.	0.341
22371.089	4468.8009	63.	0.682
22369.483	4469.1217	43.	0.512
22368.500	4469.3181	46.	0.512

ASSIGNMENT
(v', v'', Branch J)

5,2R25

2,3P4
4,2R23
6,4P8
3,3R11
1,2P15
6,3P19

2,3R6

3,2R21

6,4R10

7,R23
3,3P10; 2,3P5; 5,2P24

4,2P22

5,4R0
5,4R1
2,2R19

2,3R7

5,4R2
3,2P20
6,4P9

5,4P1

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22367.559	4469.5062	15.	0.341	
22366.006	4469.8165	24.	0.767	
22363.827	4470.2521	21.	0.582	
22361.158	4470.7856	195.	1.278	5,4R3
22359.270	4471.1632	85.	0.596	
22357.907	4471.4357	995.	1.362	3,3R12
22356.399	4471.7373	83.	0.511	
22355.226	4471.9720	30.	0.511	
22353.860	4472.2453	766.	1.192	2,3P6
22352.135	4472.5905	26.	0.511	8,5R0
22350.638	4472.8900	40.	0.596	8,5R0;6,3R21
22348.663	4473.2854	87.	0.510	5,4P2
22347.672	4473.4836	285.	0.765	7,3P22
22346.537	4473.7108	29.	0.425	
22345.449	4473.9287	453.	0.850	2,2P18
22343.586	4474.3017	28.	0.580	
22341.990	4474.6214	68.	0.580	8,5R2
22340.615	4474.8968	57.	0.595	1,2R17
22339.141	4475.1921	474.	0.850	6,4R11
22337.416	4475.5376	262.	1.105	5,4R4
22336.061	4475.8091	52.	0.595	
22334.960	4476.0297	38.	0.595	
22333.406	4476.3412	25.	0.425	8,5P1
22332.441	4476.5347	137.	0.594	
22331.251	4476.7732	32.	0.594	
22329.508	4477.1226	15.	0.934	
22328.379	4477.3491	15.	0.509	
22327.131	4477.5994	25.	0.424	
22326.061	4477.8140	116.	0.579	8,5R3
22322.629	4478.5023	905.	1.188	2,3R8
22321.398	4478.7493	14.	0.339	
22320.117	4479.0064	130.	1.018	5,4P3
22318.621	4479.3066	16.	0.578	
22316.004	4479.8320	498.	1.355	3,3P11
22313.037	4480.4277	44.	0.763	8,5P2
22311.510	4480.7343	23.	0.932	
22309.182	4481.2020	27.	0.847	
22307.941	4481.4512	143.	0.578	1,2P16
22306.563	4481.7279	88.	0.593	
22305.631	4481.9154	369.	0.593	5,4R5
22304.601	4482.1223	45.	0.508	
22303.767	4482.2898	35.	0.339	
22302.886	4482.4669	102.	0.593	8,5R4
22300.815	4482.8831	23.	0.577	
22299.582	4483.1311	32.	0.592	
22297.550	4483.5396	25.	0.577	
22295.820	4483.8875	302.	0.930	6,4P10
22294.539	4484.1452	17.	0.423	
22293.271	4484.4002	1106.	1.184	2,3P7
22291.208	4484.8153	453.	0.761	
22290.288	4485.0004	44.	0.338	6,3P20
22289.314	4485.1963	85.	0.761	
22287.599	4485.5416	15.	0.576	
22286.025	4485.8583	63.	1.014	8,5P3
22284.467	4486.1720	222.	0.929	5,4P4
22283.095	4486.4481	23.	0.507	
22279.144	4487.2438	14.	0.576	
22277.852	4487.5041	22.	0.591	
22276.065	4487.8641	63.	1.182	
22274.860	4488.1068	13.	0.338	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22272.626	4488.5571	139.	0.844	8,5R5
22271.064	4488.6718	46.	0.591	
22270.052	4489.0758	53.	0.337	
22268.964	4489.2951	356.	1.012	4,2R24
22267.984	4489.4928	35.	0.337	
22266.641	4489.7635	586.	1.181	5,4R6;5,2R6
22265.028	4490.0888	12.	0.337	
22264.530	4490.1891	13.	0.337	
22263.380	4490.4211	50.	0.674	
22262.065	4490.6864	766.	1.096	3,3R13
22259.784	4491.1465	25.	0.506	
22258.473	4491.4112	67.	0.590	
22257.359	4491.6359	1422.	0.842	2,3R9
22256.190	4491.8719	415.	0.505	6,4R12
22255.439	4492.0234	302.	0.590	3,2R22
22252.606	4492.5952	188.	0.674	
22251.197	4492.8798	85.	0.505	8,5P4
22250.035	4493.1144	37.	0.673	
22247.016	4493.7242	78.	0.757	
22245.932	4493.9431	35.	0.337	
22245.152	4494.1007	175.	0.757	
22243.723	4494.3895	70.	0.673	
22241.362	4494.8664	344.	1.430	5,4P5
22239.207	4495.3021	161.	0.841	
22237.634	4495.6201	16.	0.336	
22236.665	4495.8159	217.	0.756	
22235.194	4496.1133	158.	0.756	8,5R6
22233.420	4496.4721	25.	0.504	
22231.637	4496.8329	217.	0.840	
22229.819	4497.2006	153.	0.672	2,2R20
22228.884	4497.3898	56.	0.420	
22227.814	4497.6062	31.	0.588	
22226.543	4497.8635	70.	0.756	
22225.091	4498.1573	1422.	1.007	2,3P8
22223.973	4498.3835	55.	0.420	
22223.131	4498.5540	51.	0.504	
22222.127	4498.7572	80.	0.587	
22220.204	4499.1467	433.	0.671	5,4R7
22219.041	4499.3821	711.	0.671	4,2P23
22217.790	4499.6354	711.	0.923	3,3P12
22215.682	4500.0623	34.	0.419	
22214.694	4500.2624	553.	0.755	1,3R3;5,2P25
22213.539	4500.4966	356.	0.671	
22211.927	4500.8233	22.	0.503	
22210.928	4501.0256	14.	0.419	
22209.467	4501.3218	1106.	1.257	6,4P11;3,2P21;8,5P5
22208.109	4501.5970	56.	0.503	
22206.195	4501.9849	153.	0.754	
22205.194	4502.1879	48.	0.503	
22203.930	4502.4442	14.	0.419	
22203.033	4502.6260	29.	0.335	
22202.302	4502.7744	143.	0.502	
22201.329	4502.9717	103.	0.586	
22199.451	4503.3526	59.	0.586	
22198.511	4503.5433	45.	0.502	
22196.292	4503.9935	88.	0.586	1,2R18
22195.414	4504.1718	71.	0.586	
22192.816	4504.6990	208.	0.753	
22191.798	4504.9058	23.	0.335	
22190.747	4505.1191	586.	1.004	5,4P6;8,5R7

(v', v'', Branch J)

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				ASSIGNMENT (v', v'', Branch J)
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
22059.040	4532.0180	31.	0.706	
22058.068	4532.2176	15.	0.403	
22056.679	4532.5032	15.	0.403	
22055.439	4532.7581	70.	0.806	
22053.372	4533.1828	53.	1.511	
22051.047	4533.6508	19.	0.504	
22048.960	4534.0899	824.	1.812	3,3R15
22046.943	4534.5047	70.	0.705	
22045.811	4534.7375	54.	0.805	
22044.303	4535.0477	54.	0.805	1,2R19
22042.836	4535.3496	171.	1.006	8,5P8
22041.464	4535.6320	17.	0.503	
22039.679	4535.9993	28.	1.302	
22036.938	4536.5634	1295.	1.005	1,3P6
22035.700	4536.8185	432.	0.503	
22034.509	4537.0635	363.	0.804	3,2P22
22032.928	4537.3891	394.	1.106	
22030.799	4537.9719	32.	1.305	
22028.206	4538.3619	121.	1.005	
22026.286	4538.7574	302.	1.105	2,2P20
22023.802	4539.2693	28.	0.904	
22022.175	4539.6048	33.	0.703	
22021.282	4539.7389	24.	0.502	
22019.643	4540.1267	175.	1.004	
22017.818	4540.5030	302.	1.104	
22016.271	4540.8220	432.	0.803	6,4P13
22014.519	4541.1835	1812.	1.404	2,3R12
22012.792	4541.5398	63.	0.602	1,2P18
22011.658	4541.7738	50.	0.702	
22009.985	4542.1190	21.	0.302	
22007.778	4542.5745	57.	2.005	
22005.401	4543.0653	19.	0.702	
22003.497	4543.4584	604.	1.002	1,3R8
22002.018	4543.7637	114.	0.802	
21999.837	4544.2143	697.	1.903	3,3P14
21997.869	4544.6208	33.	0.801	
21996.252	4544.9548	412.	1.001	5,4P9
21994.710	4545.2735	171.	0.901	
21992.865	4545.6548	19.	0.801	
21991.326	4545.9729	77.	0.901	
21989.258	4546.4005	20.	0.700	
21987.935	4546.6740	31.	0.700	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21986.690	4546.9315	17.	0.500	
21985.082	4547.2641	227.	1.300	
21982.769	4547.7425	75.	0.900	
21980.548	4548.2021	175.	0.700	
21979.684	4548.3208	60.	0.400	
21978.288	4548.6490	86.	0.999	
21975.862	4549.1718	604.	0.799	1,3P7
21974.578	4549.4377	1295.	0.699	2,3P11
21973.206	4549.7217	284.	0.899	8,5P9
21972.000	4549.9716	125.	0.699	
21971.011	4550.1763	35.	0.499	
21969.689	4550.4501	19.	0.899	
21968.284	4550.7411	55.	0.599	
21966.983	4551.0107	453.	1.198	
21965.325	4551.3543	504.	0.898	6,4R15
21963.152	4551.8044	33.	0.898	
21960.957	4552.2594	293.	1.397	5,4R11
21958.948	4552.6759	58.	0.798	
21957.426	4552.9915	50.	1.097	
21955.627	4553.3647	28.	0.698	
21953.350	4553.8369	36.	1.396	
21951.528	4554.2148	44.	0.598	
21950.130	4554.5049	117.	0.996	
21947.950	4554.9573	15.	0.398	
21946.847	4555.1862	52.	0.697	
21944.421	4555.6899	30.	0.697	
21942.387	4556.1121	293.	0.996	8,5R11
21939.711	4556.6678	26.	0.597	
21938.566	4556.9056	23.	0.398	
21937.248	4557.1794	755.	1.095	1,3R9
21935.804	4557.4795	101.	0.696	
21934.589	4557.7320	58.	0.596	
21933.134	4558.0342	233.	0.395	
21930.998	4558.4783	1133.	0.895	3,3R16
21929.958	4558.6943	94.	0.398	
21928.359	4559.0268	85.	1.392	
21926.587	4559.3952	13.	0.398	
21925.210	4559.6816	39.	1.093	
21922.427	4560.2605	31.	0.596	
21920.894	4560.5794	54.	1.291	
21918.283	4561.1227	1510.	0.894	2,3R13
21916.832	4561.4247	604.	0.794	5,4P10
21915.598	4561.6815	49.	0.496	
21914.379	4561.9352	88.	0.695	
21913.097	4562.2022	111.	0.893	
21911.749	4562.4829	77.	0.595	
21909.593	4562.9318	378.	0.893	6,4P14
21908.024	4563.2586	66.	0.496	
21906.910	4563.4905	567.	0.893	1,3P8
21905.330	4563.8198	112.	0.992	
21903.738	4564.1515	53.	0.793	
21902.000	4564.5138	96.	1.091	
21900.531	4564.8199	35.	0.595	
21898.795	4565.1817	189.	0.694	3,2R24
21897.184	4565.5177	697.	1.486	8,5P10
21895.339	4565.9024	117.	0.892	2,2R22
21893.776	4566.2283	50.	0.391	
21891.861	4566.6278	112.	0.990	
21890.074	4567.0005	221.	0.990	
21887.994	4567.4345	87.	0.990	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
21886.132	4567.8232	49.	1.089	
21884.328	4568.1997	477.	1.286	
21881.917	4568.7029	89.	0.594	
21880.667	4568.9640	755.	1.088	3,3P15
21878.513	4569.4138	324.	1.187	5,4R12
21877.172	4569.6939	110.	0.494	
21875.902	4569.9593	1133.	1.285	2,3P12
21872.698	4570.6287	24.	0.692	
21871.241	4570.9331	115.	0.791	
21869.440	4571.3095	22.	1.186	
21866.547	4571.9144	349.	1.679	
21864.423	4572.3584	284.	0.889	
21862.212	4572.8209	824.	2.567	1,3R10;8,5R12
21859.727	4573.3408	87.	0.987	
21858.115	4573.6780	54.	0.790	
21856.177	4574.0837	412.	0.987	2,2P21
21854.746	4574.3831	363.	0.691	6,4R16
21853.129	4574.7217	453.	1.381	1,2P19;3,2P23
21851.611	4575.0395	68.	0.493	
21850.316	4575.3106	197.	0.887	
21848.746	4575.6394	33.	0.690	
21847.298	4575.9426	94.	0.986	
21844.684	4576.4902	81.	0.887	
21842.521	4576.9434	66.	0.985	
21840.917	4577.2796	1133.	1.084	
21839.321	4577.6140	27.	0.886	
21837.150	4578.0631	126.	1.083	
21835.661	4578.3814	23.	0.492	
21834.382	4578.6495	70.	0.788	
21833.098	4578.9188	34.	0.492	
21830.725	4579.4166	1133.	1.279	1,3P9
21829.353	4579.7045	108.	0.590	
21827.665	4580.0585	477.	1.279	
21825.524	4580.5078	22.	0.393	
21823.793	4580.8712	182.	1.868	
21821.779	4581.2940	50.	0.492	
21820.439	4581.5754	453.	1.474	
21818.419	4581.9995	98.	1.173	
21815.992	4582.5093	378.	0.786	
21815.041	4582.7090	604.	0.491	8,5P11
21813.850	4582.9593	1133.	0.982	2,3R14
21811.379	4583.4784	23.	0.786	
21809.996	4583.7690	42.	0.786	
21807.765	4584.2379	245.	1.080	
21805.944	4584.6208	1812.	0.981	3,3R17
21804.545	4584.9150	182.	0.687	
21803.253	4585.1867	24.	0.589	
21801.782	4585.4961	21.	0.392	
21800.570	4585.7510	336.	0.883	
21799.398	4585.9975	39.	0.392	
21798.346	4586.2189	60.	0.588	
21796.594	4586.5876	432.	1.667	6,4P15
21794.287	4587.0730	21.	0.784	
21792.276	4587.4963	58.	1.274	
21789.580	4588.0641	30.	0.392	
21788.395	4588.3134	267.	0.980	5,4R13
21786.180	4588.7799	28.	0.686	
21784.746	4589.0820	79.	0.783	
21781.963	4589.6684	26.	0.392	
21780.796	4589.9144	604.	0.979	1,3R11

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21779.134	4590.2645	31.	0.783	
21777.432	4590.6234	123.	0.783	8,5R13
21775.152	4591.1040	91.	0.585	
21772.500	4591.6633	349.	0.880	
21770.128	4592.1635	1812.	1.369	2,3P13
21768.437	4592.5076	35.	0.587	
21767.272	4592.7662	27.	0.880	
21765.963	4593.0424	33.	0.586	
21764.439	4593.3633	84.	0.880	
21763.187	4593.6282	157.	0.684	
21761.278	4594.0311	33.	0.488	
21759.546	4594.3967	125.	1.465	
21757.306	4594.8698	38.	0.488	
21754.506	4595.4613	1510.	1.660	3,3P16
21752.648	4595.8538	824.	0.781	
21751.005	4596.2009	302.	1.073	
21749.323	4596.5564	239.	0.878	
21746.307	4597.1938	2265.	1.073	1,3P10
21743.358	4597.8174	100.	1.365	
21741.515	4598.2071	126.	0.877	
21739.920	4598.5446	453.	0.780	
21737.815	4598.9898	2265.	1.364	6,4R17
21719.977	4602.7669	9060.	32.973	
21701.165	4606.7570	10060.	3.398	2,3R15
21698.095	4607.4089	453.	1.456	
21695.148	4608.0347	824.	0.370	
21692.649	4608.5655	252.	0.485	
21691.714	4608.7643	1295.	0.582	
21690.603	4609.0002	1133.	0.679	1,3R12
21689.099	4609.3197	221.	0.776	
21687.688	4609.6197	138.	0.679	1,2P20
21686.555	4609.8605	57.	0.388	
21684.852	4610.2226	171.	0.969	8,5R14
21683.427	4610.5256	44.	0.484	
21682.089	4610.8100	132.	0.775	
21680.478	4611.1528	45.	0.484	
21679.264	4611.4108	256.	0.775	2,2P22
21678.103	4611.6580	43.	0.387	
21676.795	4611.9362	604.	0.968	6,4P16
21673.675	4612.6001	1295.	1.065	3,3R18
21672.236	4612.9065	54.	0.677	
21670.378	4613.3019	58.	0.871	
21668.188	4613.7681	51.	0.580	
21667.254	4613.9670	48.	0.484	
21665.637	4614.2687	453.	0.967	3,2P24
21664.577	4614.5372	43.	0.484	
21663.234	4614.8232	29.	0.677	
21661.840	4615.1202	189.	0.870	
21660.356	4615.4365	108.	0.677	
21659.039	4615.7171	32.	0.677	
21657.155	4616.1185	1510.	1.546	2,3P14
21654.511	4616.6822	755.	1.159	1,3P11
21652.294	4617.1549	363.	0.966	
21650.158	4617.6085	34.	0.579	
21648.242	4618.0192	33.	0.579	
21646.701	4618.3480	378.	1.255	
21644.752	4618.7639	107.	0.868	
21643.036	4619.1300	363.	0.868	
21641.987	4619.3539	37.	0.386	
21640.920	4619.5816	29.	0.482	

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21639.906	4619.7981	36.	0.964	5,4P13
21638.301	4620.1408	648.	1.061	
21637.399	4620.3335	45.	0.386	
21636.172	4620.5954	39.	0.482	8,5P13
21635.071	4620.8306	105.	0.675	
21633.434	4621.1803	22.	0.386	
21632.192	4621.4455	41.	0.675	
21630.915	4621.7183	52.	0.578	
21629.657	4621.9873	211.	0.771	
21628.422	4622.2511	27.	0.578	3,3P17
21626.585	4622.6438	154.	1.830	
21624.153	4623.1636	84.	0.770	
21623.380	4623.3291	29.	0.385	6,4R18
21622.132	4623.5958	80.	0.578	
21620.911	4623.8569	1007.	1.059	
21619.382	4624.1840	130.	0.770	1,3R13
21617.409	4624.6059	27.	0.481	
21616.637	4624.7711	31.	0.481	
21615.653	4624.9817	27.	0.577	5,4R15
21613.845	4625.3685	504.	1.250	
21612.282	4625.7030	21.	0.577	
21610.798	4626.0208	22.	0.673	8,5R15
21609.760	4626.2430	23.	0.577	
21608.307	4626.5541	28.	0.577	
21607.047	4626.8238	302.	0.865	2,3R16
21604.955	4627.2719	149.	0.769	
21603.418	4627.6011	33.	1.057	
21601.401	4628.0332	755.	1.345	3,4R5
21600.009	4628.3314	58.	0.480	
21598.136	4628.7329	66.	0.864	
21596.124	4629.1642	47.	0.768	5,4R15
21593.590	4629.7073	53.	0.576	
21592.319	4629.9798	604.	1.152	
21590.730	4630.3205	79.	0.672	8,5R15
21588.154	4630.8731	140.	0.671	
21586.288	4631.1233	35.	0.480	
21586.040	4631.3266	73.	0.480	2,3R16
21585.244	4631.4974	118.	0.479	
21584.427	4631.6727	206.	0.384	
21583.206	4631.9347	3020.	1.246	3,4R5
21582.032	4632.1868	36.	0.383	
21580.857	4632.4389	26.	0.575	
21579.867	4632.6514	15.	0.383	1,3P12
21578.894	4632.8604	22.	0.479	
21577.891	4633.0757	25.	0.575	
21575.880	4633.5075	25.	0.575	1,3P12
21573.212	4634.0807	648.	1.341	
21571.434	4634.4624	147.	0.670	
21570.369	4634.6914	227.	0.862	1,3P12
21568.051	4635.1895	128.	0.861	
21566.617	4635.4977	33.	0.670	
21564.814	4635.8852	21.	0.670	1,3P12
21563.353	4636.1993	30.	0.861	
21562.041	4636.4815	15.	0.383	
21561.183	4636.6660	15.	0.478	1,3P12
21560.276	4636.8609	23.	0.383	
21559.563	4637.0144	32.	0.478	
21558.597	4637.2223	35.	0.478	1,3P12
21557.023	4637.5608	27.	0.478	
21555.072	4637.9805	697.	2.103	

2

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
21553.242	4535.3744	22.	0.382
21552.520	4535.5297	21.	0.478
21550.860	4533.8371	533.	1.147
21549.314	4539.2198	40.	0.573
21547.476	4639.6155	101.	1.051
21545.615	4640.0164	44.	0.955
21542.945	4640.5914	432.	1.050
21541.445	4640.9144	100.	0.859
21539.129	4641.4136	36.	0.668
21536.971	4641.8785	1812.	0.954
21535.747	4642.1425	75.	0.382
21534.536	4642.4035	1133.	0.858
21533.178	4642.6963	79.	0.763
21531.960	4642.9590	363.	0.667
21531.052	4643.1547	103.	0.572
21529.270	4643.5391	34.	0.763
21527.686	4643.8808	202.	0.853
21526.585	4644.1183	22.	0.381
21525.718	4644.3052	13.	0.381
21524.469	4644.5747	24.	0.572
21523.118	4644.8663	25.	0.667
21521.963	4645.1157	21.	0.476
21520.641	4645.4009	121.	1.048
21519.262	4645.6986	34.	0.667
21517.338	4646.1140	202.	0.762
21516.098	4646.3819	118.	0.666
21514.375	4646.7540	48.	0.666
21513.372	4646.9706	24.	0.381
21512.452	4647.1693	30.	0.571
21511.408	4647.3948	40.	0.571
21510.239	4647.6474	81.	0.666
21509.063	4647.9015	22.	0.476
21507.964	4648.1390	69.	0.571
21506.965	4648.3550	50.	0.476
21505.413	4648.6905	39.	1.331
21503.477	4649.1089	70.	0.951
21501.437	4649.5501	27.	0.665
21499.092	4650.0572	111.	0.855
21497.485	4650.4049	45.	0.665
21495.756	4650.7790	130.	0.665
21494.434	4651.0650	39.	0.665
21493.422	4651.2839	36.	0.380
21492.653	4651.4504	29.	0.380
21491.389	4651.7239	28.	1.044
21489.758	4652.0769	33.	0.664
21488.790	4652.2864	27.	0.570
21487.506	4652.5645	227.	0.664
21486.324	4652.8204	324.	0.664
21485.259	4653.0512	58.	0.474
21483.550	4653.4213	252.	0.854
21482.409	4653.6684	197.	0.664
21480.614	4654.0573	1295.	1.707
21478.722	4654.4673	85.	0.664
21477.659	4654.6976	202.	0.758
21476.020	4655.0529	28.	0.569
21474.611	4655.3583	16.	1.137
21472.312	4655.8568	221.	0.663
21471.260	4656.0849	115.	0.663
21470.070	4656.3431	16.	0.379
21468.464	4656.6913	31.	0.947

6,4P17

3,4R6

2,3P15

3,3R19

5,4P14

8,5P14

1,2P21

2,2P23

3,4R7

1,3R14

6,4R19

3,3P18

5,4R16

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21467.036	4657.0010	26.	0.565	
21465.468	4657.3413	42.	1.042	
21464.075	4657.6435	14.	0.379	
21462.880	4657.9028	35.	0.757	
21461.416	4658.2206	88.	0.946	
21460.158	4658.4936	22.	0.473	
21458.573	4658.8377	21.	0.568	
21456.726	4659.2388	824.	0.851	2,3R17
21455.724	4659.4564	112.	0.568	
21453.592	4659.9194	23.	0.473	
21452.509	4660.1548	51.	0.756	
21451.198	4660.4395	35.	0.567	
21449.609	4660.7848	36.	0.756	
21447.906	4661.1549	697.	1.134	1,3P13
21446.524	4661.4553	43.	0.472	
21444.230	4661.9539	142.	0.756	
21442.955	4662.2311	533.	0.850	
21441.539	4662.5390	39.	0.567	
21439.895	4662.8966	378.	1.511	3,4R8
21438.642	4663.1691	35.	0.378	
21437.437	4663.4312	31.	0.850	
21435.491	4663.8545	193.	0.944	
21432.886	4664.4214	39.	0.755	
21431.492	4664.7247	17.	0.472	
21430.411	4664.9602	54.	0.566	
21428.786	4665.3139	23.	0.560	
21427.448	4665.6052	50.	0.849	
21425.634	4666.0002	91.	0.754	
21424.278	4666.2955	38.	0.754	
21423.123	4666.5472	22.	0.566	
21420.655	4667.0847	91.	0.660	
21418.839	4667.4804	648.	1.790	8,5P15;6,4P18;5,4P15
21417.053	4667.8698	31.	0.653	
21414.212	4668.4891	35.	1.318	
21412.590	4668.8427	16.	0.565	
21410.548	4669.2879	101.	0.653	
21409.279	4669.5647	1007.	0.941	2,3P16
21408.060	4669.8306	23.	0.376	
21407.213	4670.0155	23.	0.376	
21406.413	4670.1899	23.	0.565	3,4P7
21403.707	4670.7803	27.	0.653	
21402.393	4671.0671	32.	0.470	
21401.052	4671.3599	211.	1.034	
21398.525	4671.9116	13.	0.470	
21397.175	4672.2064	17.	0.752	
21395.930	4672.4782	22.	0.470	
21395.012	4672.6785	27.	0.376	
21393.892	4672.9233	251.	0.752	
21392.606	4673.2041	26.	0.846	
21390.645	4673.6325	35.	0.470	
21389.715	4673.8359	76.	0.564	
21388.354	4674.1332	845.	1.033	3,3R20
21386.764	4674.4802	16.	0.845	
21385.406	4674.7775	35.	0.751	
21383.987	4675.0878	423.	0.939	
21382.718	4675.3653	32.	0.469	
21381.572	4675.6159	176.	0.751	
21379.549	4676.0582	68.	0.657	
21378.448	4676.2992	67.	0.469	3,4R9
21377.447	4676.5181	80.	0.563	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K) (v', v'', Branch J)
21375.185	4677.0130	57.	0.844
21372.362	4677.6308	387.	0.937 1,3R15
21371.065	4677.9146	39.	0.469
21370.447	4678.0499	30.	0.375
21368.945	4678.3758	98.	1.218 8,5R17
21366.837	4678.8403	404.	0.843
21365.406	4679.1536	60.	0.843
21363.980	4679.4659	22.	0.656
21362.010	4679.8976	92.	0.656
21360.634	4680.1990	71.	0.655 5,4R17
21359.345	4680.4814	15.	0.562
21357.086	4680.9766	64.	0.842
21355.169	4681.3967	35.	0.749
21353.413	4681.7817	34.	1.123
21352.245	4682.0378	31.	0.561
21350.806	4682.3534	91.	0.655
21349.944	4682.5425	54.	0.468
21348.819	4682.7891	33.	0.561
21347.138	4683.1580	183.	0.841 6,4R20
21345.612	4683.4928	22.	0.561
21343.959	4683.8554	266.	1.122
21341.970	4684.2921	64.	1.402 3,4P8
21340.299	4684.6589	59.	0.747
21339.377	4684.8612	23.	0.374
21336.926	4685.3994	82.	0.654
21334.435	4685.9464	2323.	1.027 3,3P19
21333.245	4686.2078	715.	0.467 1,3P14
21332.124	4686.4542	358.	0.840
21330.461	4686.8194	37.	0.340
21329.068	4687.1256	57.	0.747
21327.734	4687.4077	16.	0.467
21326.568	4687.6751	50.	0.840
21324.036	4688.2316	35.	0.653
21322.713	4688.5226	1033.	0.839 2,3R18
21321.652	4688.7559	58.	0.559 2,4R0
21320.131	4689.0904	89.	0.746 2,4R1
21318.686	4689.4082	29.	0.746
21317.470	4689.6757	29.	0.373
21316.699	4689.8453	58.	0.466
21315.720	4690.0608	91.	0.466
21314.809	4690.2612	82.	0.652
21313.066	4690.6447	41.	0.745
21311.191	4691.0573	344.	0.931 2,4R2
21309.818	4691.3596	107.	0.745 3,4R10
21307.011	4691.9778	266.	1.117
21305.809	4692.2425	115.	0.372 2,2P24
21304.885	4692.4461	186.	0.745 8,5P16
21302.332	4693.0084	38.	0.651 2,4P1
21299.544	4693.6227	300.	0.651 5,4P16
21298.523	4693.8477	78.	0.465
21297.465	4694.0808	33.	0.558
21296.321	4694.3329	35.	0.744
21294.516	4694.7309	207.	0.930 2,4R3
21293.260	4695.0079	56.	0.558
21292.079	4695.2684	14.	0.744
21290.904	4695.5274	15.	0.465
21289.894	4695.7501	26.	0.650
21288.000	4696.1680	66.	0.929
21286.361	4696.5296	14.	0.464
21284.999	4696.8300	24.	0.743

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21283.799	4697.0949	21.	0.557	
21281.591	4697.5821	79.	0.557	2,4P2
21280.396	4697.8459	654.	0.928	6,4P19
21278.799	4698.1986	620.	1.114	
21277.447	4698.4972	128.	0.742	
21276.040	4698.8078	15.	0.371	
21274.754	4699.0918	1328.	1.113	2,3P17
21272.612	4699.5649	233.	0.927	
21270.426	4700.0480	332.	0.835	2,4R4
21269.008	4700.3614	67.	0.742	3,4P9
21267.590	4700.6748	13.	0.742	
21266.479	4700.9205	15.	0.742	
21265.005	4701.2463	16.	0.556	
21264.089	4701.4487	14.	0.371	
21262.772	4701.7400	98.	0.834	
21261.479	4702.0259	15.	0.463	
21259.980	4702.3574	166.	1.019	
21258.153	4702.7617	24.	0.648	
21256.782	4703.0650	21.	0.556	
21254.458	4703.5792	34.	0.555	
21253.179	4703.8622	143.	0.740	2,4P3
21251.738	4704.1812	78.	0.648	
21250.621	4704.4284	245.	0.555	1,3R16;8,5R18
21249.684	4704.6358	71.	0.740	
21247.924	4705.0257	15.	0.555	
21246.627	4705.3127	39.	0.740	
21244.542	4705.7747	100.	0.925	
21242.819	4706.1562	92.	0.832	
21241.625	4706.4207	92.	0.740	
21240.092	4706.7605	13.	0.370	
21238.692	4707.0708	423.	0.924	2,4R5
21236.929	4707.4614	47.	0.554	5,4R18
21235.481	4707.7825	1033.	0.924	3,3R21
21234.069	4708.0956	186.	0.647	3,4R11
21233.005	4708.3315	39.	0.554	
21231.964	4708.5623	16.	0.369	
21230.471	4708.8935	274.	0.923	
21229.133	4709.1903	30.	0.646	
21227.459	4709.5616	54.	1.015	
21225.944	4709.8979	15.	0.461	
21224.597	4710.1967	179.	0.738	
21222.959	4710.5603	43.	0.646	
21220.566	4711.0915	118.	0.733	
21219.145	4711.4069	547.	1.014	
21217.273	4711.8226	198.	1.199	2,4P4
21215.903	4712.1270	33.	0.645	
21213.921	4712.5672	12.	0.553	
21212.729	4712.8320	14.	0.922	
21210.927	4713.2325	489.	1.382	1,3P15
21209.244	4713.6065	13.	0.553	
21207.605	4713.9708	32.	0.829	
21206.218	4714.2789	30.	0.645	
21204.491	4714.6630	102.	0.644	6,4R21
21202.810	4715.0145	27.	0.552	
21201.444	4715.3406	13.	0.368	
21199.525	4715.7675	489.	0.920	2,4R6
21197.529	4716.2115	26.	1.012	
21195.909	4716.5719	30.	0.552	
21195.128	4716.7458	58.	0.552	
21193.104	4717.1962	44.	0.552	5,5R0

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21191.658	4717.5114	47.	1.103	5,5R1
21190.257	4717.8299	43.	0.552	3,4P10
21187.316	4718.4849	21.	0.551	
21185.700	4718.3449	59.	0.543	
21184.602	4719.0294	291.	0.543	8,5P17
21183.593	4719.3143	59.	0.459	5,5R2
21181.135	4719.8619	1549.	1.469	3,3P20;2,3R19
21179.839	4720.1506	43.	0.459	
21178.170	4720.5227	61.	0.551	
21177.188	4720.7415	55.	0.459	
21175.723	4721.0682	300.	0.826	
21174.397	4721.3638	547.	0.551	2,4P5
21173.579	4721.5461	332.	0.367	5,5P1
21172.621	4721.7599	186.	0.542	
21171.403	4722.0315	51.	0.459	
21170.406	4722.2538	75.	0.542	
21168.266	4722.7313	146.	0.550	5,5R3
21166.651	4723.0915	2323.	1.375	
21165.236	4723.4074	60.	0.550	
21162.812	4723.9484	95.	1.100	
21161.103	4724.3300	29.	0.458	
21160.030	4724.5695	111.	0.541	
21158.615	4724.8853	55.	0.541	
21157.302	4725.1787	34.	0.550	
21155.703	4725.5358	22.	0.458	
21153.988	4725.9190	155.	0.824	5,5P2
21152.740	4726.1977	775.	0.732	2,4R7
21151.058	4726.5736	239.	0.541	3,4R12
21150.112	4726.7849	105.	0.549	
21149.201	4726.9887	35.	0.458	
21146.818	4727.5214	44.	0.549	
21145.779	4727.7537	108.	0.457	5,5R4
21144.940	4727.9413	60.	0.540	
21143.332	4728.3007	31.	0.732	
21142.183	4728.5578	22.	0.549	
21140.549	4728.9231	69.	1.280	
21138.708	4729.3351	15.	0.548	
21137.426	4729.6219	13.	0.548	
21136.155	4729.9063	282.	0.914	6,4P20
21134.921	4730.1825	17.	0.457	
21133.252	4730.5562	1328.	0.914	2,3P18
21131.987	4730.8393	47.	0.539	
21129.278	4731.4458	25.	0.539	
21127.574	4731.9393	108.	1.004	5,5P3;8,5R19
21125.370	4732.3211	251.	0.822	
21123.801	4732.6725	310.	0.539	2,4P6
21122.682	4732.9232	23.	0.548	
21121.117	4733.2740	202.	0.730	1,3R17
21119.901	4733.5466	104.	0.539	
21118.539	4733.8517	17.	0.547	
21116.143	4734.3891	146.	0.912	5,5R5
21114.107	4734.5455	24.	0.547	
21112.717	4735.1572	14.	0.365	
21111.785	4735.3654	26.	0.729	
21109.443	4735.8917	194.	0.820	2,2P25
21107.867	4736.2453	664.	0.911	
21106.726	4736.5013	31.	0.364	5,4R19
21105.184	4736.8475	129.	0.538	
21104.000	4737.1133	106.	0.729	3,4P11
21102.884	4737.3636	17.	0.364	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
21102.072	4737.5459	44.	0.546	
21100.425	4737.9158	38.	0.637	
21098.737	4738.2949	929.	0.910	2,4R8
21097.404	4738.5942	37.	0.637	
21096.364	4738.8278	16.	0.546	
21094.895	4739.1579	24.	0.637	
21092.983	4739.5873	58.	0.455	5,5P4
21092.119	4739.7816	57.	0.546	
21090.907	4740.0540	54.	0.727	
21089.800	4740.3027	83.	0.636	
21088.219	4740.6581	16.	0.455	
21087.150	4740.8984	45.	0.636	
21086.315	4741.0863	21.	0.364	
21085.232	4741.3298	12.	0.545	
21083.929	4741.5227	14.	0.909	
21081.511	4742.1665	517.	0.818	1,3P16
21079.509	4742.6170	190.	0.727	5,5R6
21078.371	4742.8729	29.	0.545	
21077.132	4743.1518	37.	0.454	
21075.862	4743.4376	715.	0.999	3,3R22
21072.780	4744.1315	16.	0.817	
21071.343	4744.4549	15.	0.998	
21069.481	4744.8742	32.	0.817	
21067.279	4745.3702	183.	0.635	
21066.036	4745.6503	465.	0.816	2,4P7
21064.405	4746.0177	23.	0.635	
21063.103	4746.3111	102.	0.544	
21062.480	4746.4515	98.	0.363	
21061.697	4746.6279	74.	0.453	
21060.719	4746.8483	222.	0.544	3,4R13
21059.914	4747.0298	39.	0.453	
21058.246	4747.4057	73.	0.725	8,5P18
21056.868	4747.7164	23.	0.544	
21055.744	4747.9698	61.	0.634	6,4R22
21054.678	4748.2103	23.	0.362	
21053.623	4748.4484	21.	0.906	
21051.879	4748.8417	74.	0.634	5,5P5
21049.202	4749.4456	163.	0.543	
21048.328	4749.6427	358.	0.634	
21046.724	4750.0049	16.	0.452	
21045.751	4750.2244	16.	0.452	
21044.841	4750.4297	31.	0.633	
21043.192	4750.8021	14.	0.543	
21041.631	4751.1546	137.	0.724	5,4P18
21040.574	4751.3931	28.	0.362	
21039.469	4751.6428	42.	0.723	
21038.403	4751.8834	15.	0.362	
21037.185	4752.1587	929.	0.904	2,4R9
21035.886	4752.4520	190.	0.723	5,5R7
21034.152	4752.8438	26.	0.452	
21032.774	4753.1552	404.	1.355	2,3R20
21031.262	4753.4971	13.	0.452	
21030.227	4753.7309	13.	0.361	
21028.624	4754.0933	245.	0.903	
21026.785	4754.5091	12.	0.632	
21025.600	4754.7770	13.	0.451	
21025.055	4754.9003	13.	0.361	
21024.056	4755.1263	18.	0.632	
21022.344	4755.5136	33.	0.812	
21020.966	4755.8253	775.	0.902	3,3P21

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
21019.353	4756.1903	21.	0.902
21017.861	4756.5278	13.	0.451
21016.092	4756.9282	282.	0.392
21014.597	4757.2667	29.	0.451
21013.641	4757.4830	34.	0.631
21011.145	4758.0423	52.	0.631
21009.090	4753.5138	39.	0.811
21007.295	4758.9204	63.	0.631
21004.983	4759.4442	67.	0.721
21003.460	4759.7892	163.	1.261
21000.864	4760.3776	404.	1.351
20999.131	4760.7706	44.	0.900
20997.319	4761.1813	28.	0.720
20996.031	4761.4735	16.	0.540
20994.022	4761.9291	300.	0.900
20991.843	4762.4233	28.	0.540
20990.392	4762.7526	25.	0.630
20989.028	4763.0621	18.	0.540
20987.921	4763.3134	16.	0.539
20986.227	4763.6979	153.	0.539
20985.077	4763.9590	715.	1.079
20983.838	4764.2403	133.	0.629
20982.553	4764.5321	60.	0.629
20981.054	4764.8724	28.	0.539
20980.072	4765.0954	17.	0.359
20979.223	4765.2882	17.	0.629
20977.446	4765.6919	423.	1.167
20975.130	4766.2182	13.	0.449
20974.002	4766.4745	27.	0.539
20972.588	4766.7958	14.	0.539
20970.189	4767.3411	17.	0.718
20968.148	4767.8052	715.	0.987
20966.377	4768.2079	24.	0.628
20964.684	4768.5930	137.	0.628
20963.355	4768.8954	300.	0.807
20961.537	4769.3058	18.	0.538
20960.280	4769.5949	18.	0.538
20959.236	4769.8326	14.	0.442
20957.817	4770.1554	18.	0.627
20956.581	4770.4368	46.	0.627
20955.575	4770.6659	14.	0.442
20954.024	4771.0189	86.	0.627
20952.731	4771.3134	581.	1.075
20951.146	4771.6743	15.	0.895
20948.976	4772.1686	121.	0.716
20947.702	4772.4588	17.	0.448
20946.950	4772.6302	21.	0.358
20946.136	4772.8158	30.	0.358
20945.524	4772.9552	46.	0.358
20944.557	4773.1756	258.	0.716
20943.085	4773.5111	47.	0.626
20941.800	4773.8038	29.	0.716
20940.270	4774.1526	15.	0.537
20939.160	4774.4058	13.	0.358
20937.997	4774.6709	161.	0.805
20936.264	4775.0663	216.	0.894
20935.054	4775.3422	21.	0.447
20933.712	4775.6484	28.	0.626
20932.348	4775.9596	22.	0.536
20931.150	4776.2330	332.	0.804

3,4P12

1,4R0

5,5P6;1,4R1

2,4P8

8,5R20

1,4R2

6,4P21;1,4P1

5,5R8;2,3P19

1,4R3

5,4R20

2,4R10

1,4P2

3,4R14

1,4R4

5,5P7

1,3P17

1,4P3

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20928.966	4776.7313	715.	0.804	2,4P9
20927.831	4776.9905	216.	0.536	5,5R9
20927.225	4777.1287	66.	0.357	
20926.309	4777.3378	49.	0.446	8,5P19
20925.535	4777.5146	29.	0.536	
20923.880	4777.8925	22.	0.625	
20922.961	4778.1022	13.	0.357	
20921.147	4778.5167	489.	1.160	1,4R5
20918.855	4779.0401	23.	0.625	
20917.458	4779.3594	26.	0.535	
20915.986	4779.6956	72.	0.624	
20915.079	4779.9031	17.	0.357	
20914.196	4780.1047	22.	0.535	
20913.177	4780.3376	15.	0.446	
20912.091	4780.5860	49.	0.535	
20911.247	4780.7791	87.	0.446	3,4P13
20909.833	4781.1022	387.	1.070	3,3R23
20908.188	4781.4785	12.	0.356	
20906.984	4781.7537	64.	0.980	
20905.449	4782.1049	27.	0.713	
20904.359	4782.3542	22.	0.356	
20903.496	4782.5517	86.	0.713	5,4P19
20902.179	4782.8531	20.	0.534	
20901.318	4783.0500	38.	0.356	6,4R23
20900.488	4783.2400	372.	0.712	1,4P4
20899.421	4783.4842	161.	0.534	
20898.460	4783.7041	21.	0.356	
20897.538	4783.9153	51.	0.712	
20895.670	4784.3428	17.	0.445	
20894.645	4784.5776	21.	0.534	
20893.539	4784.8308	17.	0.534	
20891.690	4785.2545	620.	1.156	2,4R11
20888.587	4785.9652	38.	0.800	
20887.263	4786.2685	233.	0.889	5,5P8
20883.950	4787.0279	58.	0.622	
20882.307	4787.4045	104.	0.533	
20881.380	4787.6170	517.	0.800	1,4R6
20879.297	4788.0247	56.	0.799	
20877.836	4788.4297	300.	0.799	2,3R21
20876.030	4788.8441	75.	0.710	
20874.902	4789.1028	19.	0.355	
20873.712	4789.3758	77.	0.977	
20871.753	4789.8254	332.	0.888	
20869.826	4790.2676	15.	0.532	
20869.038	4790.4347	13.	0.355	
20867.694	4790.7572	37.	1.419	
20865.927	4791.1628	39.	1.242	
20864.595	4791.4688	33.	0.443	
20863.448	4791.7322	274.	0.798	5,5R10
20861.726	4792.1276	18.	0.532	8,5R21
20859.893	4792.5488	38.	0.443	
20858.959	4792.7632	274.	0.798	3,4R15
20857.372	4793.1279	517.	0.797	1,4P5
20856.341	4793.3648	92.	0.532	
20854.972	4793.6795	581.	0.886	3,3P22
20853.747	4793.9611	25.	0.531	
20851.790	4794.4112	23.	1.063	
20849.534	4794.9298	547.	0.974	2,4P10
20848.220	4795.2321	18.	0.620	
20846.890	4795.5380	15.	0.531	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20845.540	4795.8457	15.	0.531	
20844.165	4796.1649	26.	0.531	
20842.353	4796.5820	59.	0.513	
20841.343	4796.8145	27.	0.442	
20839.727	4797.1864	128.	0.973	1,3R19
20838.588	4797.4485	31.	0.442	
20837.090	4797.7936	55.	0.796	
20835.284	4798.2093	29.	0.354	
20834.284	4798.4396	625.	0.972	1,4R7
20832.233	4798.9122	17.	0.707	
20830.576	4799.2937	113.	0.530	6,4P22
20829.587	4799.5217	476.	0.707	2,3P20
20827.924	4799.9050	21.	0.618	
20826.804	4800.1631	15.	0.353	
20826.139	4800.3164	17.	0.618	
20824.244	4800.7533	14.	0.883	
20823.038	4801.0313	38.	0.530	4,5R0
20821.919	4801.2892	71.	0.530	4,5R1
20820.565	4801.5091	44.	0.382	
20819.073	4801.9457	147.	0.618	5,5P9
20818.115	4802.1665	94.	0.618	
20816.018	4802.6503	73.	0.517	
20813.668	4803.1925	114.	0.617	4,5R2
20812.791	4803.3950	25.	0.441	
20810.862	4803.8403	22.	0.529	
20809.160	4804.2331	15.	0.353	
20808.043	4804.4911	1110.	0.969	2,4R12
20806.452	4804.8584	476.	1.057	1,4P6
20804.476	4805.3149	115.	1.057	4,5P1;3,4P14
20803.201	4805.6092	18.	0.440	
20802.232	4805.8332	13.	0.440	
20800.597	4806.2110	227.	0.968	1,3P18
20799.583	4806.4453	33.	0.352	
20798.388	4806.7215	227.	0.968	4,5R3
20796.974	4807.0481	152.	0.616	
20795.675	4807.3485	71.	0.792	
20792.101	4808.1749	294.	1.407	5,5R11
20790.444	4808.5581	14.	0.440	
20788.803	4808.9377	54.	0.615	8,5P20
20786.962	4809.3636	12.	0.615	
20786.048	4809.5751	14.	0.352	
20784.083	4810.0297	150.	0.791	4,5P2
20782.474	4810.4022	46.	0.527	
20781.751	4810.5696	30.	0.439	
20780.748	4810.8018	23.	0.439	
20779.506	4811.0892	666.	1.054	1,4R8
20777.333	4811.5924	63.	0.615	
20775.898	4811.9248	189.	0.527	4,5R4
20774.708	4812.2005	31.	0.439	
20773.577	4812.4625	45.	0.614	
20772.442	4812.7253	58.	0.614	
20770.264	4813.2301	14.	0.351	
20769.496	4813.4081	29.	0.526	7,6P2
20768.564	4813.6240	16.	0.439	
20767.650	4813.8360	31.	0.526	
20766.658	4814.0659	26.	0.526	
20764.357	4814.5992	12.	0.351	
20763.050	4814.9023	588.	1.052	2,4P11
20761.322	4815.3033	15.	0.526	
20759.449	4815.7377	41.	0.613	5,4P20

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20758.126	4816.0445	13.	0.434
20756.878	4816.3342	109.	1.051
20754.932	4816.7856	16.	0.788
20754.139	4816.9697	15.	0.525
20753.034	4817.2262	15.	0.613
20751.903	4817.4888	13.	0.613
20749.774	4817.9832	23.	0.350
20748.752	4818.2133	1249.	0.788
20747.715	4818.4613	278.	0.525
20746.592	4818.7220	286.	0.613
20745.623	4818.9471	128.	0.525
20743.775	4819.3764	170.	1.137
20741.712	4819.8557	75.	0.700
20740.568	4820.1216	21.	0.437
20738.704	4820.5550	21.	0.525
20737.597	4820.8123	294.	0.874
20736.011	4821.1809	52.	0.524
20734.920	4821.4347	111.	0.699
20733.820	4821.6904	14.	0.437
20732.808	4821.9258	17.	0.612
20731.276	4822.2822	29.	0.524
20730.341	4822.4997	15.	0.349
20729.424	4822.7131	46.	0.611
20728.412	4822.9484	24.	0.437
20727.427	4823.1776	23.	0.524
20726.023	4823.5043	193.	0.698
20724.541	4823.7795	137.	1.135
20723.052	4824.1958	189.	0.785
20721.494	4824.5586	51.	0.611
20720.671	4824.7503	29.	0.349
20718.897	4825.1633	55.	0.785
20717.202	4825.5582	1998.	1.047
20715.920	4825.8567	218.	0.610
20714.378	4826.2160	286.	1.221
20713.176	4826.4960	15.	0.349
20710.933	4827.0188	54.	0.523
20709.843	4827.2728	333.	1.307
20708.121	4827.6743	12.	0.348
20707.219	4827.8846	17.	0.523
20706.189	4828.1247	12.	0.523
20705.067	4828.3864	16.	0.348
20704.414	4828.5387	28.	0.348
20702.360	4829.0177	22.	0.435
20701.615	4829.1916	24.	0.348
20700.465	4829.4599	124.	0.783
20699.262	4829.7404	35.	0.609
20697.594	4830.1296	23.	0.522
20696.519	4830.3807	12.	0.435
20695.530	4830.6114	14.	0.522
20694.708	4830.8033	13.	0.435
20692.470	4831.3258	97.	0.609
20691.309	4831.5969	162.	0.783
20689.642	4831.9863	278.	0.782
20688.205	4832.3217	91.	0.956
20686.519	4832.7157	154.	1.217
20685.205	4833.0227	43.	0.434
20684.066	4833.2888	132.	0.434
20683.218	4833.4871	1428.	0.782
20682.045	4833.7612	244.	0.605
20680.793	4834.0537	89.	0.782

ASSIGNMENT
(v', v'', Branch J)

4,5P3

1,4P7
3,4R16
4,5R5

5,5P10
6,4R24

3,3R24

7,6R5

4,5P4

2,4R13;1,4R9

2,3R22
5,5R12

7,6P4
4,5R6

7,6R6

3,4P15

1,3R20

1,4P8;3,3P23
4,5P5

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20679.839	4834.2768	24.	0.434	
20678.575	4834.5488	18.	0.521	
20677.384	4834.8508	13.	0.434	
20676.835	4834.9791	12.	0.347	
20675.003	4835.4076	13.	0.347	
20674.259	4835.5816	13.	0.521	
20672.811	4835.9204	13.	0.521	
20671.607	4836.2019	95.	0.694	7,6P5
20669.717	4836.6442	999.	1.041	6,4P23;2,4P12
20668.291	4836.9779	435.	0.607	2,3P21
20667.572	4837.1461	141.	0.347	
20666.567	4837.3815	357.	0.694	4,5R7
20665.399	4837.6547	24.	0.607	
20664.002	4837.9819	17.	0.347	
20662.612	4838.3072	294.	1.387	5,5P11
20661.089	4838.6640	109.	0.607	
20659.209	4839.1042	176.	0.693	7,6R7
20658.103	4839.3633	38.	0.606	
20656.835	4839.6603	21.	0.606	
20655.673	4839.9327	15.	0.520	
20654.293	4840.2560	15.	0.606	
20652.180	4840.7512	76.	0.692	
20651.136	4840.9961	31.	0.433	
20649.575	4841.3621	233.	0.865	1,3P19
20647.355	4841.8825	1249.	0.865	1,4R10
20646.175	4842.1593	33.	0.432	8,5P21
20645.304	4842.3636	20.	0.605	
20643.066	4842.8886	13.	0.519	
20641.852	4843.1733	30.	0.865	
20640.605	4843.4660	67.	0.519	
20639.625	4843.6961	35.	0.432	
20638.795	4843.8906	64.	0.519	
20637.611	4844.1686	22.	0.346	
20636.831	4844.3518	28.	0.432	
20635.921	4844.5653	64.	0.518	
20634.573	4844.8819	370.	1.296	4,5P6
20632.739	4845.3124	32.	0.518	
20632.012	4845.4832	18.	0.345	
20630.116	4845.9287	417.	1.209	5,5R13;3,4R17
20628.832	4846.2302	24.	0.518	
20627.308	4846.5882	14.	0.518	
20625.613	4846.9866	51.	0.563	7,6P6
20624.069	4847.3493	15.	0.345	
20622.205	4847.7876	15.	0.345	
20621.078	4848.0525	15.	0.776	
20618.889	4848.5672	87.	0.690	
20617.776	4848.8290	16.	0.345	2,4R14
20616.249	4849.1882	32.	0.862	
20615.111	4849.4559	21.	0.431	

ASSIGNMENT

(v¹, v², Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
20605.521	4851.7129	29.	0.505	
20603.421	4852.2073	92.	0.342	
20601.793	4852.5909	13.	0.337	
20600.766	4852.8327	22.	0.673	
20599.667	4853.0916	21.	0.337	
20598.699	4853.3198	58.	0.589	
20597.420	4853.6211	22.	0.505	
20596.205	4853.9074	21.	0.421	
20595.564	4854.0583	14.	0.337	
20593.929	4854.4439	264.	0.925	
20592.533	4854.7729	13.	0.336	
20591.548	4855.0052	15.	0.589	
20590.223	4855.3175	26.	0.341	
20589.213	4855.5556	23.	0.420	
20588.416	4855.7436	14.	0.336	
20587.136	4855.0456	14.	1.261	
20584.768	4856.5995	188.	0.340	
20583.420	4856.9222	30.	0.672	
20581.637	4857.3430	28.	0.504	
20580.879	4857.5220	22.	0.336	
20579.114	4857.9385	496.	0.340	4,5P7
20577.721	4858.2674	26.	0.336	
20576.703	4858.5079	66.	0.839	
20574.913	4858.9306	55.	0.420	
20573.965	4859.1543	468.	0.755	5,5P12
20572.833	4859.4218	444.	0.503	
20572.010	4859.6162	165.	0.420	
20571.027	4859.8484	196.	0.671	3,4P16
20569.124	4860.2981	9420.	1.090	2,4P13;1,4R11
20564.664	4861.3522	8420.	5.533	
20560.314	4862.3806	312.	0.587	
20558.586	4862.7894	527.	1.340	4,5R9
20556.341	4863.3205	234.	0.754	7,6R9
20554.957	4863.6478	32.	0.670	
20553.890	4863.9003	15.	0.419	
20552.520	4864.2246	22.	0.586	
20550.770	4864.6389	14.	0.418	
20549.817	4864.8645	42.	0.418	
20549.011	4865.0553	23.	0.335	
20547.802	4865.3415	141.	0.502	
20547.001	4865.5311	183.	0.502	
20545.398	4865.9108	159.	0.586	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20544.493	4866.1253	26.	0.418	
20541.788	4866.7659	55.	0.585	
20540.475	4867.0772	34.	0.418	
20539.691	4867.2628	47.	0.418	
20538.579	4867.5265	401.	0.752	5,5R14
20536.884	4867.9281	21.	0.418	
20535.926	4868.1551	46.	0.501	
20533.065	4868.8334	92.	1.002	
20531.807	4869.1319	24.	0.334	
20531.132	4869.2919	33.	0.334	
20530.187	4869.5160	1684.	0.835	1,4P10;1,3R21
20528.809	4869.8428	71.	0.584	
20526.928	4870.2892	33.	0.751	
20525.254	4870.6865	14.	0.417	
20524.313	4870.9097	23.	0.668	
20522.657	4871.3028	26.	0.417	
20521.708	4871.5281	24.	0.334	
20520.752	4871.7549	169.	0.667	
20518.948	4872.1834	13.	0.584	
20517.631	4872.4962	444.	1.001	4,5P8
20515.204	4873.0725	141.	0.834	
20513.917	4873.3782	180.	0.583	7,6P8
20512.682	4873.6717	1684.	1.000	2,4R15
20511.299	4874.0002	58.	0.583	
20509.734	4874.3722	22.	0.833	
20507.833	4874.8239	43.	0.833	
20506.140	4875.2266	21.	0.416	
20504.464	4875.6251	2105.	0.999	3,4R18
20502.792	4876.0226	119.	0.916	
20501.403	4876.3529	264.	0.666	
20499.613	4876.7787	366.	0.749	2,3P22
20498.575	4877.0257	16.	0.333	
20497.409	4877.3031	24.	0.416	
20496.680	4877.4767	26.	0.416	
20495.328	4877.7915	196.	0.582	7,6R10
20494.133	4878.0828	301.	0.582	4,5R10
20493.376	4878.2631	90.	0.499	
20492.159	4878.5527	15.	0.416	
20490.974	4878.8348	111.	0.748	1,3P20
20488.880	4879.3336	130.	0.748	
20486.522	4879.8950	196.	0.914	
20485.257	4880.1964	35.	0.498	
20483.878	4880.5251	1203.	0.831	1,4R12
20482.584	4880.8332	29.	0.415	
20481.791	4881.0222	25.	0.332	9,7R1
20480.719	4881.2777	132.	0.564	
20479.530	4881.5613	264.	0.564	5,5P13
20478.618	4881.7785	39.	0.332	
20477.487	4882.0482	35.	0.498	
20475.736	4882.4657	22.	0.664	
20474.475	4882.7663	40.	0.581	9,7R2
20472.906	4883.1406	24.	0.747	
20470.479	4883.7195	90.	1.410	
20469.344	4883.9904	35.	0.415	
20467.653	4884.3868	25.	0.497	
20465.898	4884.8127	22.	0.497	
20464.669	4885.1061	43.	0.580	
20463.713	4885.3344	26.	0.331	
20463.148	4885.4693	24.	0.331	
20461.716	4885.8110	936.	1.160	2,4P14

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20460.663	4886.0627	59.	0.414
20458.279	4886.6319	37.	0.828
20456.415	4887.0772	45.	0.662
20455.323	4887.3382	62.	0.579
20453.459	4887.7836	25.	0.497
20451.165	4888.3317	15.	0.414
20450.451	4888.5025	15.	0.414
20449.317	4888.7736	383.	0.579
20448.482	4888.9732	119.	0.496
20446.945	4889.3407	24.	0.496
20446.008	4889.5648	22.	0.413
20444.515	4889.9218	228.	0.744
20442.869	4890.3156	1053.	0.909
20440.988	4890.7656	337.	0.909
20439.979	4891.0071	56.	0.413
20438.637	4891.3282	22.	0.413
20437.698	4891.5529	26.	0.661
20436.558	4891.8257	20.	0.496
20435.816	4892.0034	16.	0.413
20434.734	4892.2624	24.	0.578
20433.228	4892.6231	23.	0.413
20432.309	4892.8432	34.	0.413
20431.446	4893.0497	34.	0.495
20429.858	4893.4300	13.	0.495
20427.893	4893.9009	176.	0.660
20426.694	4894.1882	32.	0.743
20424.513	4894.7108	122.	0.577
20422.872	4895.1040	216.	0.660
20420.827	4895.5943	39.	0.577
20418.947	4896.0451	104.	0.907
20416.758	4896.5627	146.	1.071
20415.472	4896.8783	14.	0.330
20413.720	4897.2987	53.	1.071
20411.571	4897.8142	62.	0.659
20410.210	4898.1410	12.	0.412
20407.952	4898.6829	13.	0.323
20407.115	4898.8838	26.	0.494
20405.550	4899.2595	12.	0.578
20403.553	4899.7389	14.	0.905
20402.537	4899.9830	13.	0.411
20401.596	4900.2091	22.	0.411
20400.573	4900.3827	32.	0.323
20399.930	4900.6092	1053.	0.740
20399.062	4900.8176	50.	0.329
20398.301	4901.0005	23.	0.411
20397.319	4901.2366	64.	0.493
20396.413	4901.4643	24.	0.329
20395.459	4901.6834	124.	0.575
20394.134	4902.0020	14.	0.575
20390.933	4902.7714	602.	0.822
20389.361	4903.1494	76.	0.575
20387.672	4903.5557	33.	0.904
20386.456	4903.8482	30.	0.493
20384.846	4904.2355	12.	0.493
20383.444	4904.5729	14.	0.575
20382.389	4904.8268	34.	0.410
20381.672	4904.9992	77.	0.410
20380.823	4905.2036	53.	0.575
20379.606	4905.4965	16.	0.325
20378.713	4905.7116	228.	0.656

ASSIGNMENT
(v', v", Branch J)

9,7R3

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				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20377.301	4905.1237	111.	0.374	7,6P10
20376.225	4906.3135	80.	0.492	6,6R4
20374.343	4906.7637	562.	0.984	4,5P10
20372.767	4907.1433	281.	0.492	3,4R19
20371.923	4907.3464	90.	0.492	
20370.377	4907.7191	14.	0.492	
20369.614	4907.9028	13.	0.328	
20368.578	4908.1524	21.	0.556	
20366.706	4908.6036	126.	0.574	
20365.569	4908.8778	132.	0.819	
20363.932	4909.2722	96.	0.573	1,3R22
20362.751	4909.5570	98.	0.737	
20361.596	4909.8355	15.	0.409	
20360.746	4910.0406	16.	0.573	
20358.921	4910.4807	14.	0.573	
20356.333	4911.1049	49.	0.573	6,6P3
20354.853	4911.4621	22.	0.327	
20354.042	4911.6578	116.	0.655	7,6R12
20352.845	4911.9466	33.	0.409	
20351.880	4912.1796	78.	0.736	9,7P5
20350.848	4912.4287	54.	0.491	
20349.823	4912.6737	34.	0.491	
20348.388	4913.0225	842.	0.899	1,4P12
20347.052	4913.3452	766.	0.818	2,4P15
20345.964	4913.6078	20.	0.327	
20345.029	4913.8336	383.	0.736	4,5R12
20344.022	4914.0768	54.	0.490	
20342.927	4914.3415	13.	0.327	
20341.437	4914.7013	57.	0.654	9,7R7
20340.060	4915.0342	33.	0.490	
20336.854	4915.8089	234.	0.817	5,5R16
20334.574	4916.3602	23.	0.653	
20333.876	4916.5288	21.	0.408	
20332.592	4916.8393	14.	0.653	
20330.766	4917.2810	39.	0.490	
20329.311	4917.6329	27.	0.571	
20327.811	4917.9957	16.	0.489	
20327.009	4918.1900	13.	0.326	
20326.051	4918.4217	80.	0.489	1,3P21
20324.974	4918.6822	201.	0.315	
20323.798	4918.9670	55.	0.489	6,6P4
20322.717	4919.2285	60.	0.897	
20321.458	4919.5333	110.	0.408	
20320.527	4919.7586	234.	0.571	
20319.420	4920.0268	14.	0.570	
20318.384	4920.2776	16.	0.489	
20317.329	4920.5330	22.	0.652	
20315.826	4920.8970	13.	0.896	
20314.168	4921.2989	119.	0.733	6,6R6
20311.570	4921.9283	180.	0.651	3,4P18
20310.277	4922.2415	23.	0.814	
20309.230	4922.4953	64.	0.488	
20308.200	4922.7451	136.	0.570	
20307.444	4922.9283	46.	0.407	9,7P6
20305.752	4923.3384	96.	1.465	
20303.834	4923.7915	13.	0.325	
20302.803	4924.0536	62.	0.813	
20300.358	4924.6467	13.	0.488	
20299.098	4924.9524	99.	0.650	7,6P11
20297.828	4925.2606	18.	0.650	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
20296.793	4925.5116	15.	0.488	
20295.659	4925.7796	52.	0.569	9,7R8
20294.149	4926.1533	13.	0.406	
20292.752	4926.4926	216.	0.312	4,5P11
20291.593	4926.7740	42.	0.406	
20290.508	4927.0374	324.	0.312	1,4R14
20289.368	4927.3141	13.	0.487	
20287.990	4927.6489	12.	0.731	
20286.834	4927.9298	23.	0.487	
20286.184	4928.0875	21.	0.406	
20284.676	4928.4541	66.	0.487	6,6P5
20283.452	4928.7513	256.	1.380	
20282.023	4929.0987	16.	0.406	
20281.359	4929.2600	14.	0.325	
20280.180	4929.5466	496.	0.730	2,4R17
20279.355	4929.7472	41.	0.406	
20276.749	4930.3807	111.	0.730	
20275.134	4930.7735	13.	0.405	
20274.056	4931.0356	92.	0.567	7,6R13
20273.142	4931.2579	50.	0.486	6,6R7
20271.684	4931.6126	312.	0.810	5,5P15
20270.670	4931.8592	14.	0.324	
20269.117	4932.2372	32.	1.215	
20267.633	4932.5983	14.	0.567	
20266.207	4932.9453	24.	0.486	
20264.821	4933.2829	13.	0.324	
20263.675	4933.5618	53.	0.648	
20262.391	4933.8746	27.	0.567	
20260.559	4934.3207	216.	1.052	4,5R13
20258.689	4934.7760	22.	0.405	
20257.411	4935.0874	50.	0.971	9,7P7
20254.913	4935.6961	13.	0.485	
20253.742	4935.9815	13.	0.647	
20252.834	4936.2027	12.	0.404	
20251.799	4936.4551	23.	0.485	
20250.698	4936.7234	13.	0.726	
20249.200	4937.0887	14.	0.485	
20248.095	4937.3581	17.	0.404	
20247.514	4937.4998	16.	0.323	
20246.440	4937.7616	421.	0.808	1,4P13
20245.133	4938.0682	22.	0.566	
20243.745	4938.4189	47.	0.485	9,7R9
20242.955	4938.6116	29.	0.485	
20241.843	4938.8831	13.	0.485	
20240.553	4939.1979	16.	0.323	
20239.724	4939.4001	81.	0.484	
20238.599	4939.6747	56.	0.888	6,6P6
20237.062	4940.0499	18.	0.565	
20235.300	4940.4800	68.	0.403	
20234.369	4940.7074	192.	0.645	3,4R20
20233.102	4941.0167	13.	0.726	
20231.500	4941.4080	24.	0.807	
20229.268	4941.9532	13.	0.806	
20226.108	4942.7252	366.	1.612	2,4P16;5,5R17
20224.049	4943.2285	18.	0.564	
20223.190	4943.4386	14.	0.322	
20222.020	4943.7220	47.	0.645	
20220.696	4944.0483	14.	0.322	
20219.361	4944.3747	14.	0.483	
20218.379	4944.6147	25.	0.483	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20216.897	4944.9772	17.	0.725	7,6P12
20215.113	4945.4138	75.	0.544	
20212.133	4946.1427	14.	0.402	
20211.490	4946.3031	13.	0.322	4,5P12
20209.739	4946.7288	13.	0.724	
20208.941	4946.9241	12.	0.322	
20207.957	4947.1649	14.	0.563	9,7P8
20206.022	4947.6387	34.	0.563	
20204.667	4947.9705	143.	0.804	
20202.965	4948.3873	16.	0.482	7,6R14
20200.823	4948.9122	49.	0.884	
20199.117	4949.3300	13.	0.482	
20197.293	4949.7772	12.	0.562	6,6P7
20196.102	4950.0690	14.	0.562	
20194.674	4950.4191	17.	0.321	
20194.013	4950.5810	25.	0.482	9,7R10
20192.904	4950.8528	24.	0.482	
20192.016	4951.0708	14.	0.321	
20190.541	4951.4324	82.	0.883	1,4R15
20189.283	4951.7408	13.	0.482	
20187.721	4952.1240	56.	0.562	
20186.592	4952.4009	50.	0.562	3,4P19
20185.477	4952.6747	53.	0.481	
20184.361	4952.9485	65.	0.542	
20182.788	4953.3343	234.	1.123	6,6R9
20180.632	4953.8637	24.	0.481	
20179.239	4954.2056	13.	0.481	
20177.722	4954.5782	15.	0.721	4,5R14
20175.851	4955.0376	15.	0.561	
20174.276	4955.4244	17.	0.481	
20172.389	4955.8878	106.	0.641	5,5P16
20171.427	4956.1243	39.	0.481	
20169.191	4956.6738	58.	0.480	
20168.497	4956.8444	51.	0.400	1,3P22
20167.654	4957.0516	61.	0.560	
20166.674	4957.2923	15.	0.320	
20165.726	4957.5255	52.	0.800	2,4R18
20164.200	4957.9007	27.	0.480	
20163.584	4958.0521	18.	0.400	
20162.775	4958.2510	12.	0.320	5,5P16
20162.092	4958.4191	12.	0.320	
20160.605	4958.7847	61.	0.720	
20158.642	4959.2677	111.	0.540	1,4P14
20156.499	4959.7950	30.	0.959	
20154.325	4960.3300	49.	0.480	
20153.260	4960.5921	366.	0.719	1,4P14
20151.610	4960.9983	13.	0.799	
20150.306	4961.3193	106.	0.639	
20148.585	4961.7430	13.	0.559	1,4P14
20147.008	4962.1315	14.	0.399	
20146.213	4962.3273	13.	0.399	
20144.411	4962.7711	82.	0.798	1,4P14
20142.574	4963.2237	12.	0.878	
20140.978	4963.6171	12.	0.399	
20139.422	4964.0005	12.	0.319	1,4P14
20137.715	4964.4214	337.	1.276	
20135.186	4965.0450	14.	0.798	
20134.317	4965.2592	13.	0.319	1,4P14
20133.424	4965.4794	14.	0.478	
20132.716	4965.6540	13.	0.319	

ASSIGNMENT

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
20132.222	4965.7759	13.	0.319	
20131.019	4966.0727	106.	0.638	
20130.123	4966.2936	16.	0.319	
20127.988	4966.8204	55.	0.475	6,6P8
20127.327	4966.9837	31.	0.398	
20125.758	4967.3708	33.	0.319	
20125.093	4967.5348	90.	0.558	7,6P13
20123.198	4968.0027	21.	0.478	
20121.983	4968.3027	26.	0.398	
20121.139	4968.5111	51.	0.478	9,7R11
20119.807	4968.8401	32.	0.876	
20118.207	4969.2353	58.	0.876	
20116.773	4969.5894	48.	0.875	
20115.484	4969.9080	60.	0.875	
20113.805	4970.3229	35.	0.398	
20112.928	4970.5396	28.	0.398	
20111.170	4970.9740	86.	0.636	6,6R10
20110.037	4971.2541	468.	0.795	4,5P13
20107.549	4971.8693	9420.	3.100	
20104.671	4972.5810	54.	1.669	
20103.069	4972.9771	30.	0.397	
20102.537	4973.1087	34.	0.318	
20101.601	4973.3404	73.	0.477	
20100.721	4973.5581	101.	0.477	
20099.758	4973.7964	65.	0.477	
20098.260	4974.1671	366.	0.715	2,4P17
20096.955	4974.4902	27.	0.397	
20095.359	4974.8853	90.	0.714	7,6R15
20094.049	4975.2097	20.	0.476	
20093.327	4975.3883	17.	0.317	
20092.248	4975.6556	67.	0.555	
20091.146	4975.9285	19.	0.397	
20089.699	4976.2869	153.	0.635	3,4R21
20088.166	4976.6665	21.	0.714	
20086.730	4977.0223	33.	0.476	
20084.753	4977.5124	13.	0.317	
20084.037	4977.6898	14.	0.317	
20083.299	4977.8726	14.	0.555	
20082.096	4978.1709	17.	0.476	
20080.328	4978.6091	16.	0.396	
20078.522	4979.0571	21.	0.371	
20077.150	4979.3972	39.	0.634	
20075.482	4979.8110	13.	0.554	
20072.644	4980.5151	20.	0.554	
20071.330	4980.8412	37.	0.475	4,5R15
20069.372	4981.3272	33.	0.475	9,7P10
20068.414	4981.5550	19.	0.475	
20067.250	4981.8538	108.	0.712	1,4R16
20065.346	4982.3265	12.	0.395	
20062.847	4982.9472	39.	0.791	6,6P9
20061.702	4983.2316	14.	0.553	
20060.189	4983.6075	17.	0.553	
20057.931	4984.1686	13.	0.395	
20053.419	4985.2900	39.	0.553	
20052.326	4985.5617	14.	0.474	
20051.490	4985.7694	12.	0.316	
20050.685	4985.9698	24.	0.553	9,7R12
20049.299	4986.3145	45.	0.553	
20048.259	4986.5729	12.	0.395	
20046.833	4986.9277	29.	0.552	

ASSIGNMENT

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
20045.688	4987.2126	13.	0.473	
20043.777	4987.6881	29.	0.552	6,6R11
20042.511	4988.0033	21.	0.789	
20040.418	4988.5240	13.	0.315	
20039.550	4988.7401	82.	0.552	5,5P17
20038.339	4989.0416	17.	0.473	
20037.122	4989.3448	17.	0.552	
20035.431	4989.7659	15.	0.315	
20034.835	4989.9143	17.	0.394	
20033.593	4990.2236	12.	0.394	
20029.171	4991.3253	53.	0.551	7,6P14
20027.547	4991.7300	22.	0.315	
20026.811	4991.9136	72.	0.530	3,4P20
20025.621	4992.2102	13.	0.394	
20024.366	4992.5232	37.	0.708	
20023.277	4992.7946	14.	0.551	
20021.455	4993.2489	181.	0.708	1,4P15
20020.542	4993.4768	17.	0.315	2,4R19
20019.586	4993.7151	174.	0.708	
20017.926	4994.1292	27.	0.472	
20017.136	4994.3264	18.	0.393	
20014.689	4994.9370	15.	0.550	
20013.409	4995.2565	12.	0.314	
20012.569	4995.4662	18.	0.472	2,5R6
20011.617	4995.7037	17.	0.393	
20009.436	4996.2483	73.	0.529	4,5P14
20007.020	4996.8517	14.	0.943	
20004.333	4997.5228	12.	0.314	
20003.514	4997.7274	25.	0.393	
20002.509	4997.9785	37.	0.550	
20000.460	4998.4906	13.	0.392	
19999.269	4998.7883	16.	0.549	
19998.449	4998.9932	13.	0.314	
19996.923	4999.3747	29.	0.549	7,6R16
19994.936	4999.8716	45.	0.784	9,7P11
19993.316	5000.2766	12.	0.863	
19991.696	5000.6819	41.	0.549	6,6P10
19990.119	5001.0764	17.	0.470	
19988.842	5001.3959	78.	0.549	
19987.983	5001.6107	21.	0.314	
19987.163	5001.8159	44.	0.470	5,5R19
19986.328	5002.0250	16.	0.392	
19985.490	5002.2347	13.	0.392	
19984.841	5002.3973	13.	0.470	
19983.673	5002.6895	14.	0.627	
19982.410	5003.0057	24.	0.548	
19980.702	5003.4335	16.	0.548	
19979.053	5003.8464	13.	0.470	
19976.226	5004.5545	22.	0.470	
19974.436	5005.0031	29.	0.548	9,7R13
19972.985	5005.3667	36.	0.469	
19972.082	5005.5930	14.	0.391	
19971.284	5005.7931	13.	0.313	
19970.342	5006.0292	17.	0.626	6,6R12
19968.763	5006.4249	24.	0.469	2,5R7
19967.011	5006.8643	23.	0.547	4,5R16
19965.118	5007.3389	13.	0.469	
19963.894	5007.6460	271.	0.703	2,4P18
19962.367	5008.0289	24.	0.469	
19960.595	5008.4735	33.	0.469	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
19959.757	5008.6814	27.	0.469	
19957.904	5009.1469	51.	0.625	
19956.745	5009.4399	13.	0.547	
19955.328	5009.7956	134.	0.625	
19953.856	5010.1650	14.	0.312	
19953.141	5010.3446	21.	0.468	
19951.919	5010.6516	13.	0.936	
19949.733	5011.2006	17.	0.468	
19948.849	5011.4227	36.	0.546	
19947.084	5011.8662	12.	0.624	
19944.636	5012.4814	67.	0.546	1,4R17
19942.314	5013.0649	30.	0.624	
19939.930	5013.6643	12.	0.468	
19938.774	5013.9549	76.	0.545	3,4R22
19936.967	5014.4093	14.	0.467	
19935.925	5014.6716	50.	0.701	
19934.214	5015.1019	47.	0.779	
19932.689	5015.4855	15.	0.389	
19931.978	5015.6647	16.	0.467	
19930.719	5015.9813	13.	0.389	
19928.536	5016.5308	15.	0.545	
19927.378	5016.8224	62.	0.545	7,6P15
19925.467	5017.3035	25.	0.467	
19923.701	5017.7481	21.	0.544	
19921.835	5018.2182	12.	0.700	
19920.132	5018.6472	15.	0.700	
19918.891	5018.9599	15.	0.544	
19917.901	5019.2095	25.	0.466	2,5R8
19916.574	5019.5439	14.	0.389	
19915.961	5019.6923	13.	0.389	
19914.342	5020.1053	80.	1.243	9,7P12;5,5P18
19912.564	5020.5548	12.	0.311	
19911.798	5020.7478	13.	0.466	
19910.047	5021.1894	17.	0.544	
19908.701	5021.5289	12.	0.776	
19907.664	5021.7904	15.	0.466	
19906.438	5022.0997	36.	0.466	
19905.522	5022.3308	13.	0.310	
19904.955	5022.4739	12.	0.310	
19903.944	5022.7291	13.	0.466	
19902.375	5023.1250	45.	0.543	4,5P15
19901.131	5023.4390	13.	0.388	
19900.142	5023.6887	12.	0.310	
19898.309	5024.1514	92.	0.520	1,4P16
19896.650	5024.5703	14.	1.395	
19894.521	5025.1080	13.	1.240	
19892.636	5025.5842	18.	0.387	7,6R17
19892.029	5025.7376	17.	0.465	9,7R14
19890.940	5026.0127	13.	0.775	6,6R13
19889.044	5026.4918	15.	0.542	
19888.121	5026.7252	12.	0.310	
19887.479	5026.8874	12.	0.465	
19885.992	5027.2633	16.	0.465	
19884.174	5027.7229	15.	0.542	
19882.294	5028.1985	26.	0.929	
19879.192	5028.9830	77.	0.542	2,4R20
19877.004	5029.5366	13.	0.696	
19875.334	5029.9593	50.	0.541	2,4P21
19874.221	5030.2410	15.	0.387	
19873.645	5030.3866	14.	0.309	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19872.739	5030.6161	12.	0.309
19871.693	5030.5810	16.	0.386
19870.399	5031.2085	30.	0.541
19868.544	5031.6781	13.	0.695
19867.825	5031.8603	13.	0.309
19866.582	5032.1752	13.	0.386
19865.586	5032.4020	22.	0.541
19863.873	5032.8614	18.	0.463
19862.151	5033.2977	12.	0.309
19861.601	5033.4372	12.	0.386
19860.025	5033.8365	40.	0.540
19859.233	5034.0373	47.	0.386
19858.439	5034.2385	35.	0.540
19857.134	5034.5695	15.	0.540
19856.341	5034.7705	18.	0.463
19855.199	5035.0601	12.	0.386
19852.535	5035.7358	14.	0.463
19851.452	5036.0104	13.	0.386
19850.778	5036.1814	13.	0.386
19849.392	5036.5332	12.	0.308
19848.474	5036.7660	23.	0.462
19847.236	5037.0804	14.	0.385
19846.105	5037.3672	13.	0.462
19844.511	5037.7720	12.	0.616
19843.695	5037.9792	12.	0.385
19842.392	5038.3101	13.	0.462
19841.545	5038.5252	13.	0.385
19836.738	5039.7460	23.	0.616
19835.497	5040.0613	12.	0.308
19832.691	5040.7744	12.	0.308
19832.123	5040.9188	12.	0.308
19830.657	5041.2915	19.	0.461
19828.195	5041.9174	23.	0.461
19827.092	5042.1979	15.	0.461
19826.404	5042.3728	14.	0.384
19825.704	5042.5511	13.	0.307
19825.030	5042.7225	13.	0.384
19823.043	5043.2279	78.	0.692
19821.716	5043.5654	22.	0.461
19820.000	5044.0022	27.	0.538
19818.558	5044.3691	14.	0.461
19817.243	5044.7040	13.	0.461
19814.758	5045.3365	76.	0.614
19812.484	5045.9156	15.	0.844
19810.552	5046.4078	17.	0.460
19809.346	5046.7149	14.	0.384
19808.070	5047.0402	19.	0.614
19807.141	5047.2768	13.	0.383
19805.782	5047.6232	14.	0.460
19804.969	5047.8303	14.	0.383
19804.034	5048.0686	14.	0.460
19802.911	5048.3551	12.	0.690
19799.777	5049.1541	37.	0.536
19798.226	5049.5496	12.	0.383
19795.792	5050.1704	12.	0.306
19794.945	5050.3866	30.	0.613
19791.744	5051.2035	16.	0.459
19790.522	5051.5153	14.	0.459
19789.215	5051.8490	32.	0.536
19787.951	5052.1717	19.	0.459

2,5R9

5,5R20

4,5R17

6,6P12

9,7P13

2,4P19

2,5P8;7,6P16

1,4R18

1,5R0

1,5R1

9,7R15

1,5R2

2,5R10

1,5P1

4,5P16

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
19786.395	5052.5658	13.	0.459	
19785.623	5052.7660	13.	0.383	
19784.116	5053.1511	45.	0.918	1,5R3;5,5P19
19782.579	5053.5437	16.	0.459	7,6R18
19781.623	5053.7579	44.	0.535	3,4R23
19777.490	5054.8440	15.	0.511	
19776.364	5055.1319	14.	0.382	
19775.741	5055.2911	13.	0.458	
19774.719	5055.5523	13.	0.382	
19773.596	5055.8395	12.	0.588	
19772.082	5056.2265	12.	1.069	
19770.418	5056.6520	18.	0.458	1,5P2
19769.195	5056.9648	12.	0.305	
19768.255	5057.2053	52.	0.534	1,4P17
19766.906	5057.5505	12.	0.305	
19765.666	5057.8678	22.	0.534	
19764.337	5058.2080	12.	0.534	
19763.456	5058.4335	13.	0.458	
19762.554	5058.6643	12.	0.381	
19761.545	5058.9226	35.	0.534	1,5R4
19758.772	5059.6327	13.	0.381	
19757.997	5059.8310	14.	0.534	
19756.718	5060.1586	12.	0.534	
19755.261	5060.5318	17.	0.457	
19752.743	5061.1768	15.	0.457	
19751.764	5061.4279	15.	0.457	2,5P9
19750.532	5061.7435	14.	0.457	
19748.671	5062.2206	12.	0.381	
19747.926	5062.4116	12.	0.381	
19745.592	5063.0099	14.	0.533	
19744.565	5063.2734	12.	0.381	
19743.266	5063.6063	20.	0.609	1,5P3
19742.137	5063.8960	14.	0.533	
19741.065	5064.1710	15.	0.457	6,6P13
19738.848	5064.7396	12.	0.380	4,5R18
19736.529	5065.3349	16.	0.380	9,7P14
19735.767	5065.5305	25.	0.456	
19735.190	5065.6785	18.	0.380	
19733.865	5065.9930	13.	0.456	
19732.229	5066.4388	44.	0.456	2,4R21
19731.641	5066.5897	43.	0.380	1,5R5
19727.468	5067.6615	12.	0.380	
19725.705	5068.1143	14.	0.456	
19723.985	5068.5563	18.	0.607	5,5R21
19722.995	5068.8109	25.	0.456	2,5R11
19719.618	5069.6789	12.	0.379	
19718.660	5069.9252	17.	0.379	
19717.891	5070.1229	32.	0.379	3,4P22
19717.109	5070.3239	18.	0.455	
19716.150	5070.5707	13.	0.455	
19714.420	5071.0156	12.	0.379	
19710.146	5072.1151	13.	0.455	
19709.115	5072.3804	35.	0.531	1,5P4
19708.063	5072.6511	12.	0.379	
19706.821	5072.9710	20.	0.530	7,6P17
19703.548	5073.8137	12.	0.833	
19700.443	5074.6133	14.	0.454	
19698.388	5075.1427	21.	0.454	
19697.072	5075.4818	13.	0.681	
19694.564	5076.1281	40.	0.605	1,5R6

ASSIGNMENT

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
19687.861	5077.8565	12.	0.832	
19684.167	5078.8095	12.	0.453	
19679.870	5079.9184	12.	0.529	
19678.824	5080.1852	15.	0.375	
19677.750	5080.4657	27.	0.529	1,4R19
19675.786	5080.9726	51.	0.528	2,5P10;2,4P20.
19671.964	5081.9600	14.	0.523	
19670.017	5082.4629	18.	0.453	4,5P17
19667.858	5083.0209	27.	0.528	1,5P5
19666.795	5083.2956	16.	0.528	7,6R19
19663.690	5084.0984	16.	0.452	
19661.780	5084.5921	13.	0.603	
19660.792	5084.8478	15.	0.452	
19658.438	5085.4566	12.	0.527	
19656.438	5085.9741	12.	0.678	
19652.914	5086.8859	12.	0.452	
19651.384	5087.2822	12.	0.602	
19650.204	5087.5877	45.	0.677	1,5R7
19649.027	5087.8923	16.	0.451	
19647.599	5088.2621	25.	0.527	5,5P20
19646.598	5088.5215	13.	0.376	
19645.515	5088.8018	14.	0.527	6,6P14
19644.080	5089.1738	22.	0.526	2,5R12
19639.159	5090.4488	14.	0.526	9,7P15
19637.182	5090.9614	12.	0.751	
19635.053	5091.5134	12.	0.676	
19633.259	5091.9787	13.	0.376	
19632.344	5092.2159	12.	0.451	
19631.274	5092.4935	29.	0.451	1,4P18
19627.834	5093.3861	12.	0.525	
19626.899	5093.6287	14.	0.375	
19625.903	5093.8871	12.	0.750	
19623.194	5094.5905	13.	0.450	
19619.653	5095.5099	24.	0.525	1,5P6
19618.512	5095.8061	25.	0.525	3,4R24
19616.355	5096.3665	12.	0.675	4,5R19
19614.534	5096.8399	12.	0.375	
19611.984	5097.5024	12.	0.674	
19610.876	5097.7904	13.	0.449	
19606.179	5099.0118	18.	1.198	
19605.236	5099.2571	13.	0.299	
19603.449	5099.7219	13.	0.599	
19601.375	5100.2614	12.	0.299	
19599.497	5100.7501	15.	0.374	
19598.685	5100.9615	36.	0.449	1,5R8
19594.368	5102.0853	15.	0.374	2,5R11
19590.202	5103.1702	14.	0.448	
19589.429	5103.3716	12.	0.448	
19588.367	5103.6485	15.	0.448	7,6P18
19584.732	5104.5956	12.	0.672	2,4R22
19583.627	5104.8836	17.	0.448	5,5R22
19582.734	5105.1009	14.	0.373	
19582.111	5105.2790	15.	0.373	
19581.044	5105.5572	13.	0.448	
19579.959	5105.8399	13.	0.448	
19578.697	5106.1692	26.	0.448	
19576.634	5106.6552	12.	0.298	
19573.885	5107.4245	14.	0.447	
19570.901	5108.2031	12.	0.596	
19567.860	5108.9969	14.	0.373	

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
19565.436	5109.6301	15.	0.447	
19564.451	5109.8872	29.	0.521	1,5P7
19558.120	5111.5414	21.	0.521	2,5R13
19554.613	5112.4582	21.	0.446	3,4P23
19550.025	5113.6580	12.	0.297	
19547.715	5114.2623	15.	0.669	
19544.783	5115.0295	14.	0.371	4,5P18
19542.122	5115.7259	14.	0.520	
19541.086	5115.9971	12.	0.371	
19539.931	5116.2995	31.	0.445	1,5R9
19539.135	5116.5081	14.	0.297	
19536.314	5117.2468	13.	0.445	
19535.093	5117.5667	12.	0.668	
19533.878	5117.8849	16.	0.445	1,4R20
19532.197	5118.3254	12.	0.445	
19530.492	5118.7724	15.	0.519	
19529.359	5119.0693	12.	0.297	
19528.812	5119.2126	12.	0.371	
19524.763	5120.2742	15.	0.593	
19523.696	5120.5542	13.	0.445	
19522.261	5120.9304	27.	0.519	2,4P21
19516.661	5122.3998	12.	0.592	
19515.023	5122.8299	14.	0.444	
19513.174	5123.3154	12.	0.370	
19507.216	5124.8800	13.	0.370	
19505.632	5125.2963	24.	0.518	5,5P21;2,5P12
19502.299	5126.1723	26.	0.517	1,5P8
19499.124	5127.0069	15.	0.443	
19489.513	5129.5353	13.	0.369	
19488.653	5129.7616	13.	0.564	
19487.551	5130.0518	21.	0.516	1,4P19
19485.787	5130.5160	15.	0.564	
19483.010	5131.2474	12.	0.442	
19479.614	5132.1420	12.	0.516	
19477.384	5132.7296	14.	0.442	
19475.831	5133.1389	15.	0.442	
19473.849	5133.6614	28.	0.516	1,5R10
19472.075	5134.1290	12.	0.563	
19471.012	5134.4093	14.	0.442	
19468.367	5135.1069	12.	0.368	
19465.349	5135.9031	20.	0.441	2,5R14
19464.369	5136.1618	13.	0.441	7,6P19
19463.204	5136.4691	13.	0.368	
19462.518	5136.6502	13.	0.515	
19460.294	5137.2371	12.	1.103	
19458.726	5137.6511	13.	0.441	
19457.356	5138.0130	12.	0.368	
19456.681	5138.1911	12.	0.294	
19455.928	5138.3900	12.	0.735	
19449.521	5140.0828	16.	0.367	3,4R25
19447.077	5140.7286	12.	0.294	
19445.147	5141.2390	15.	0.440	
19443.754	5141.6072	12.	0.440	
19441.497	5142.2041	12.	0.293	
19440.803	5142.3877	12.	0.367	
19437.471	5143.2693	15.	0.440	5,5R23
19436.635	5143.4773	13.	0.293	
19434.119	5144.1564	12.	0.366	
19433.167	5144.4085	25.	0.513	1,5P9
19431.101	5144.9554	12.	0.366	

(v', v'', Branch J)

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