

$b(v) \ ^1\Pi_u \leftarrow X(v) \ ^1\Sigma_g^+$  Band of the  $^{15}\text{N}_2$ . Values with B are blended lines.

J	(0,0) band			(1,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	100846.3B			101457.7B		
1	100847.9B	100842.3		101460.0B	101455.0B	
2	100847.9B	100840.4B	100835.2	101460.0B	101452.6	101446.5B
3	100847.9B	100837.2	100829.0	101460.0B	101449.3	101441.4
4	100846.3B	100833.1	100821.9B	101457.7B	101444.8	101434.3
5	100844.1	100827.9	100814.5B	101455.0B	101439.6B	101426.2
6	100840.4B	100821.9B	100805.3	101451.4	101433.1B	101417.0B
7	100835.9	100814.5B	100795.8	101446.5B	101425.5B	101407.0B
8	100831.0	100806.1	100785.0	101439.6B	101417.0B	101395.8B
9	100823.8	100796.9	100772.9	101433.1B	101407.0B	101383.6
10				101425.5B	101395.8B	101369.7
11				101415.8	101384.4	101355.2
12					101371.2	
13					101356.8	

  

J	(2,0) band			(3,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	102131.4B			102821.3B		
1	102132.9B	102127.8B		102821.3B	102816.6B	
2	102134.3	102125.7		102821.3B	102814.4	102809.5
3	102132.9B	102122.3	102114.5	102821.3B	102811.2	102803.1
4	102131.4B	102118.0B	102107.5	102819.3	102806.7B	102796.2
5	102127.8B	102112.2B	102099.2	102816.6B	102800.8B	102787.9
6	102123.38	102105.4	102090.0	102813.9	102794.1	102778.7
7	102118.0B	102097.7	102079.0	102806.7B	102786.2	102768.0
8	102112.2B	102088.8	102067.5B	102800.8B	102777.1	102758.2
9	102104.7	102078.4	102055.1B	102792.7	102767.3	102743.5
10		102067.5B	102041.4B		102756.2	102729.6B
11	102085.8	102055.1B	102026.4B	102773.8	102743.0	102714.6B
12	102075.3	102041.4B	102010.5	102763.0	102729.6B	102698.2B
13	102062.8	102026.4B	101993.2		102714.6B	
14					102698.2B	

J	(4,0) band			(5,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	102488.2B			104616.1B		
1	103489.8B	103484.9B		104617.8B	104612.0B	
2	103489.8B	103482.2	103476.4B	104617.8B	104610.0	104604.4
3	103489.8B	103479.1	103470.4B	104617.8B	104607.0B	104598.68
4	103488.2B	103474.9	103463.6	104616.1B	104602.9	104591.8B
5	103484.9B	103469.4	103455.6B	104614.5	104597.8	104584.5B
6	103481.5	103462.9B	103446.8B	104612.0B	104591.8B	104576.1B
7	103476.4B	103455.6B	103437.0B	104607.0B	104584.5B	104566.1
8	103470.4B	103446.8B	103425.9B	104602.4	104576.1B	104555.6
9	103462.9B	103437.0B	103413.8B	104595.9	104567.1	104543.9
10	103455.6B	103425.9B	103401.2	104589.1	104557.3	104531.4
11	103445.7	103413.8B	103387.0	104581.1	104546.1	104517.9
12	103435.9	103399.8	103369.6	104572.4	104534.1	104503.6
13	103423.4	103385.2	103352.8	104562.9	104521.0	104488.3
14	103412.0	103371.7	103334.8		104507.3	104472.2
15	103396.3	103355.4	103315.6		104492.3	104455.3
16	103381.2	103337.2			104476.6	104437.5
17	103364.9	103318.4	103273.8		104459.7	104419.2B
18		103298.4	103251.4		104442.0	104409.3B
19	103328.4	103277.2	103227.5		104423.8	104380.7B
20		103254.9				
21		103231.2				

J	(6,0) band			(7,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	105237.5B			105981.5B		
1	105238.4B	105233.1		105982.4B	105977.4	
2	105238.4B	105231.1	105226.2	105982.4B	105975.6B	105970.2
3	105237.5B	105227.5B	105219.9	105981.5B	105971.4B	105963.9
4	105235.6	105222.4B	105212.7	105979.3	105966.6	105956.6
5	105232.1	105216.9	105204.3	105975.6B	105960.7	105948.1
6	105227.5B	105209.9	105194.7	105971.4B	105953.6	105938.5
7	105222.4B	105201.6	105184.0	105965.4	105945.2	105927.6
8	105215.2	105192.2	105172.0	105958.6	105935.8	105915.6
9	105207.1	105181.5	105159.0	105950.3	105925.2	105902.3
10	105198.0	105169.8	105144.7	105941.1	105913.4	105888.0
11	105187.7	105157.0	105129.2	105930.9	105900.5	105872.6
12	105176.2	105142.8	105112.7	105919.5	105886.6	105855.6B
13	105163.5	105127.7		105907.1	105871.8	105838.1B
14	105149.6	105110.7		105893.7	105855.6B	
15	105134.7			105879.1	105838.1B	
16						
17					105801.1	

J	(8,0) band			(9,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0				107444.5B		
1	106767.3B	106761.9B		107446.6B	107442.1	
2	106767.3B			107446.6B	107439.4	107435.2B
3	106767.3B	106756.7		107444.5B	107435.2B	107428.3
4		106752.3B		107441.7	107429.8B	107420.4
5	106761.9B	106746.2B	106733.4	107436.5	107422.7B	107411.1
6	106757.7	106739.1B	106724.0	107429.8B	107414.3B	107400.4
7	106752.3B	106731.2	106713.6	107422.7B	107404.3B	107388.3
8	106746.2B	106722.1	106701.5B	107414.3B	107393.2	107374.9
9	106739.1B	106712.2	106689.2B	107404.3B	107380.7	107360.0
10		106701.5B	106675.8B	107392.7	107366.9	107343.8
11		106689.2B	106661.1	107379.2	107351.5	107326.2
12		106675.8B	106645.2B	107365.0	107334.7	107307.2
13		106662.6	106629.1	107349.0	107316.8	107286.7
14		106648.4B				

J	(10,0) band			(11,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0				108875.5B		
1	108153.4	108149.2		108875.5B	108871.3	
2	108152.8B	108146.4	108142.1B	108875.5B	108868.5	108864.1B
3	108150.8	108142.1B	108135.1	108872.9	108864.1B	108857.7B
4	108147.3	108135.8B	108126.8	108869.2	108857.7B	108849.3
5	108142.1B	108128.5	108117.4	108864.1B	108850.5B	108839.5
6	108135.8B	108120.1	108106.6	108857.7B	108841.7	108828.6
7	108127.6	108109.9	108094.1	108850.5B	108831.5	108816.1
8	108118.1	108098.3	108080.2		108819.9	108802.0
9	108107.6	108085.2	108064.9	108830.2		108787.3
10	108095.4	108070.7	108048.1			
11	108081.6	108054.6	108029.8			
12	108066.3	108037.1	108010.0			
13	108049.6	108018.1	107988.9B			
14	108031.4	107993.7	107965.9			
15	108011.7		107941.8			
16	107990.0					

J	(12,0) band			(13,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	109569.1B			110249.1B		
1	109569.1B	109565.1		110249.1B	110245.4B	
2	109569.1B	109561.9B	109557.1B	110249.1B	110241.8B	110237.2B
3	109565.9	109557.1B	109550.9B	110245.4B	110237.2B	110230.7B
4	109561.9B	109550.9B	109541.3	110241.8B	110230.7B	110222.6B
5	109557.1B	109543.4	109532.5	110235.4	110222.6B	110212.4B
6	109549.9	109534.3	109520.7	110227.8	110212.4B	110200.5
7		109523.7	109508.0	110218.6	110201.8	110187.0
8				110207.9	110188.9	110172.1
9				110195.4	110174.5	110155.4
10				110181.5	110158.6	110137.3
11				110166.1	110140.8	110117.6
12				110146.8	110121.5	110096.2
13						110073.3

J	(14,0) band			(15,0) band		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	110916.0B			111565.8B		
1	110916.0B	110912.1B		111565.8B	111561.6B	
2	110915.2	110908.8	110903.9B	111564.7	111558.4	111553.4B
3	110912.1B	110903.9B	110897.4B	111561.6B	111553.4B	111546.9B
4	110907.7	110897.4B	110889.0B	111556.6	111546.9B	111538.1B
5	110901.4	110889.0B	110878.8B	111550.1	111538.1B	111527.9B
6	110893.3	110878.8B	110867.3B	111542.0	111527.9B	111515.9B
7	110884.0	110867.3B	110853.2	111532.0	111515.9B	111502.1B
8	110872.8	110854.0	110837.8	111520.7	111502.1B	111487.0B
9	110860.0	110839.4	110821.2	111507.2	111487.0B	111468.6B
10	110845.5	110823.1	110802.4	111492.3		111451.0
11	110829.2		110782.0	111475.6		
12			110759.9			
13			110736.6			

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(16,0) band			
J	R(J)	Q(J)	P(J)
0	112192.4B		
1	112192.4B	112188.0B	
2	112191.1	112185.0	112180.7
3	112188.0B	112179.7	112173.7
4	112182.6	112172.8	112164.3B
5	112176.0	112164.3B	112154.1B
6	112167.5	112154.1B	112141.7B
7	112157.2	112141.7B	112127.7B
8	112145.3	112127.7B	112112.2B
9	112131.5		112094.0B
10			112075.2
11			112053.7

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