Table 2 Observation Log

IRAS		Alias	RA(1950)	Dec(1950)	Date-obs	Time(B.T.)	Exp.(sec)	Airmass	Slit(")	PA(°)	Weather
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
00189+3748	A		0:18:55.5	37:48:47.0	24/08/95	25:15:10	2700	1.01	2.0	90	
	B				26/09/95	25:20:00	2400	1.04	2.5	90	√
00267+3016	A	MK551	0:26:46.0	30:16:51.0	02/12/94	20:56:57	3600	1.02	4.0	90	√
	B				02/12/94	20:38:30	1000	1.02	4.0	90	√
00509+1225		IZw1	0:50:56.7	12:25:09.0	07/11/94	22:17:08	3600	1.13	5.0	90	
01173+1405			1:17:22.8	14:05:54.0	31/11/94	17:54:44	2400	1.53	4.0	90	
01324+2138			1:32:25.1	21:38:39.0	24/08/95	26:04:34	3600	1.08	2.0	90	
01484+2220		NGC695	1:48:28.0	22:20:08.0	08/09/94	02:02:15	1200	1.06	3.0	90	√
01572+0009		MK1014	1:57:16.6	0:09:07.0	26/09/95	26:20:17	2400	1.33	2.5	90	√
02071+3857		NGC828	2:07:06.8	38:57:18.0	05/11/94	24:09:50	3600	1.00	5.0	90	
02203+3158	A	MK1034	2:20:23.6	31:58:08.0	06/11/94	24:48:28	3600	1.02	5.0	90	√
	B				04/12/94	21:28:50	1800	1.01	3.0	90	√
02222+2159		UGC1871	2:22:13.9	21:59:28.0	07/11/94	23:29:00	5400	1.07	5.0	90	
02248+2621			2:24:52.3	26:21:56.0	04/12/94	24:00:00	1800	1.14	3.0	90	√
02435+1253		UGC2238	2:43:33.3	12:53:10.0	26/09/95	27:13:12	2400	1.15	2.5	90	√
02512+1446	A		2:51:15.5	14:46:02.0	06/11/94	26:07:30	5400	1.18	5.0	90	√
	B				17/11/96	23:38:36	3000	1.18	3.0	90	√
03117+4151	A	MK1073.UGC2608	3:11:43.3	41:51:01.0	15/02/96	20:37:43	2400	1.23	2.5	0	√
	B				27/09/95	27:00:23	2400	1.0	2.5	90	√
	C				13/02/96	20:01:42	3600	1.15	2.5	0	
05083+7936			5:08:22.7	79:36:48.0	02/10/95	28:57:02	600	1.29	2.5	90	
05414+5840		UGC3351	5:41:25.6	58:40:50.0	25/02/95	20:09:50	3600	1.05	4.0	90	√
06538+4628		UGC3608	6:53:52.7	46:28:11.0	05/11/94	26:42:33	3600	1.07	5.0	90	
07063+2043	A	NGC2342	7:06:20.5	20:43:03.0	05/11/94	27:54:39	3600	1.08	5.0	90	
07062+2041	B	NGC2341	7:06:13.4	20:41:06.0	04/12/94	24:37:15	1200	1.17	3.0	90	√
07256+3355	A	NGC2388	7:25:38.2	33:55:19.0	06/11/94	27:50:40	3600	1.04	5.0	90	√
	B	NGC2389			04/12/94	25:03:40	900	1.07	3.0	90	√
	C				13/02/96	21:14:37	3600	1.01	2.5	0	
08354+2555		Arp243,NGC2623	8:35:25.2	25:55:48.0	25/02/95	21:23:05	2400	1.08	4.0	90	√
08507+3520	A	Arp195,UGC4653	8:50:47.6	35:20:17.0	14/02/96	22:18:42	3600	1.01	2.5	0	
	B				14/02/96	22:18:42	3600	1.01	2.5	0	
	C				14/02/96	22:18:42	3600	1.01	2.5	0	
09047+1838		NGC2761	9:04:42.1	18:38:10.0	02/12/94	27:18:05	3600	1.09	4.0	90	√
09126+4432	A	Arp55,UGC4881	9:12:39.6	44:32:19.0	12/01/95	24:23:35	3000	1.07	2.5	90	√
	B				15/02/96	23:57:28	600	1.0	2.5	59	√

Table 2 –Continued

IRAS (1)		Alias (2)	RA(1950) (3)	Dec(1950) (4)	Date-obs (5)	Time(B.T.) (6)	Exp.(sec) (7)	Airmass (8)	Slit(") (9)	PA(°) (10)	Weather (11)
09168+3308		UGC4947	9:16:53.0	33:08:42.0	11/01/95	25:16:10	3600	1.04	2.5	90	√
09320+6134		UGC5101	9:32:04.7	61:34:37.0	10/01/95	25:25:37	3600	1.10	2.5	90	√
09333+4841	A		9:33:18.5	48:41:54.0	04/12/94	26:59:25	1800	1.09	3.0	90	√
	B				14/02/96	23:27:40	3600	1.01	2.5	76	
09517+6954		M82	9:51:42.4	69:54:59.0	15/04/94	21:33:34	1200	1.16	3.5	90	√
10203+5235		UGC5613	10:20:23.7	52:35:37.0	04/12/94	27:35:01	1800	1.11	3.0	90	√
10311+3507			10:31:11.1	35:07:38.0	17/04/94	22:23:48	2400	1.07	3.5	90	
10565+2448			10:56:35.4	24:48:43.0	24/02/95	27:01:15	3600	1.11	4.0	90	
11231+1456	A	IC2810	11:23:09.8	14:56:52.0	25/02/95	23:38:00	3600	1.26	4.0	90	√
	B				25/02/95	22:35:00	3600	1.50	4.0	90	√
11254+1126		IC2846	11:25:24.0	11:26:03.0	01/06/94	21:21:30	2400	1.30	3.5	90	
11257+5850	A	Arp299,NGC3690	11:25:42.1	58:50:17.0	15/04/94	22:38:27	2000	1.06	3.5	90	√
	B	IC694			10/05/94	21:49:47	2000	1.07	3.5	90	
11543+0124			11:54:32.3	1:24:09.0	25/02/95	24:44:15	3600	1.39	4.0	90	√
12112+0305	A		12:11:12.2	3:05:20.0	15/02/96	25:15:54	2400	1.31	2.5	0	√
	C				15/02/96	26:11:28	2400	1.26	2.5	100	√
12120+6838	A		12:12:03.5	68:38:06.0	03/06/94	21:29:40	3600	1.16	3.5	90	
	C				23/02/96	26:47:58	3600	1.14	3.5	90	
	D				23/02/96	26:47:58	3600	1.14	3.5	90	
12251+4026			12:25:11.8	40:26:03.0	10/01/95	28:53:00	3600	1.01	2.5	90	√
12265+0219		3C273	12:26:33.2	2:19:43.0	12/03/95	24:16:39	600	1.31	2.5	90	
12323+1549	A	NGC4540	12:32:21.1	15:49:41.0	24/02/95	24:43:50	3600	1.26	4.0	90	
	B	IC3528			24/02/95	25:49:15	3600	1.14	4.0	90	
12540+5708		MK231	12:54:04.7	57:08:38.0	16/04/94	23:21:06	900	1.04	3.5	90	√
12592+0436			12:59:17.7	4:36:05.0	25/02/95	25:51:20	3600	1.32	4.0	90	√
13136+6223	A	Arp238,UGC8335	13:13:41.2	62:23:17.0	15/02/96	29:23:45	1500	1.12	2.5	123	√
	B				15/02/96	29:23:45	1500	1.12	2.5	123	√
13183+3423		Arp193,IC883	13:18:17.7	34:23:43.0	31/05/94	23:08:26	2000	1.09	3.5	90	
13299+1121		MK789	13:29:55.1	11:21:45.0	18/04/94	00:09:26	2400	1.15	3.5	90	
13362+4831	A	MK266,NGC5256	13:36:14.1	48:31:52.0	16/04/94	00:39:40	1800	1.01	3.5	90	√
	B				16/04/94	01:14:04	2000	1.03	3.5	90	√
13373+0105	A	Arp240,NGC5258	13:37:22.2	1:05:13.0	17/04/94	01:22:12	2000	1.39	3.5	90	
	B	NGC5257			01/06/94	22:22:08	2400	1.32	3.5	90	
13428+5608		MK273,UGC8696	13:42:51.6	56:08:14.0	03/06/94	22:38:32	2400	1.06	3.5	90	

Table 2 –Continued

IRAS (1)		Alias (2)	RA(1950) (3)	Dec(1950) (4)	Date-obs (5)	Time (6)	Exp. (7)	Airmass (8)	Slit(") (9)	PA(°) (10)	Weather (11)
13458+1540	A		13:45:52.6	15:40:20.0	11/01/95	28:23:00	3600	1.36	2.5	90	$\surd$
	B				11/01/95	29:25:25	3000	1.17	2.5	90	$\surd$
13496+0221	A	NGC5331	13:49:41.2	2:21:06.0	12/01/95	29:22:20	3000	1.38	2.5	90	$\surd$
	B				15/02/96	27:04:27	1800	1.32	2.5	81	$\surd$
	C				15/02/96	27:04:27	1800	1.32	2.5	81	$\surd$
13536+1836		MK463,UGC8850	13:53:39.7	18:36:58.0	04/06/94	23:30:05	1800	1.20	3.5	90	
14151+2705	A	MK673,IC4395	14:15:06.1	27:05:16.0	15/02/96	27:46:20	2400	1.04	2.5	117	$\surd$
	B				23/02/96	28:04:05	3600	1.03	3.5	0	
14178+4927		MK1490	14:17:53.8	49:27:54.0	25/02/95	27:02:20	2400	1.04	4.0	90	$\surd$
14547+2448	A	Arp302,UGC9618	14:54:47.9	24:48:57.0	04/06/94	00:21:47	2400	1.12	3.5	90	
	B				26/02/96	28:13:25	3600	1.04	5.0	10	
14568+4504		MK834,UGC9639	14:56:49.1	45:04:53.0	16/04/94	02:20:28	1800	1.02	3.5	90	$\surd$
15107+0724			15:10:45.7	7:24:42.0	25/02/95	28:06:00	3600	1.27	4.0	90	$\surd$
15163+4255		MK848	15:16:19.0	42:55:39.0	01/06/94	23:11:36	2400	1.00	3.5	90	
15327+2340		Arp220	15:32:46.3	23:40:10.0	22/04/94	03:02:03	2400	1.06	3.5	90	
15425+4114	A	MK489,NGC5992	15:42:35.4	41:14:29.0	16/04/94	03:02:39	2000	1.02	3.5	90	$\surd$
15426+4116	B	NGC5993			18/04/94	02:43:59	2000	1.01	3.5	90	
16104+5235		MK496,NGC6090	16:10:24.0	52:35:04.0	02/06/94	00:11:50	1800	1.02	3.5	90	
16180+3753		IZw141,6120	16:18:00.8	37:53:34.0	11/05/94	01:51:02	2400	1.00	3.5	90	
16284+0411			16:28:27.4	4:11:22.0	02/06/94	00:53:14	2400	1.25	3.5	90	
16504+0228		NGC6240	16:50:27.7	2:28:58.0	02/06/94	02:07:22	2400	1.36	3.5	90	
16577+5900	A	NGC6286	16:57:44.8	59:00:37.0	18/04/94	03:30:13	2000	1.05	3.5	90	
	B	NGC6285			11/05/94	02:41:32	2400	1.05	3.5	90	
16589+0521			16:58:54.4	5:21:18.0	26/09/95	19:30:14	3600	1.74	2.5	90	
17366+8646		UGC10923,MK1116	17:36:38.3	86:46:42.0	11/01/95	19:38:50	3000	1.61	4.0	90	$\surd$
17392+3845			17:39:14.4	38:45:20.0	04/06/94	01:28:29	2400	1.00	3.5	90	
17501+6825	A		17:50:10.5	68:25:13.0	04/06/94	02:28:25	2000	1.14	3.5	90	
	B				27/09/95	20:54:40	3600	1.32	2.5	90	$\surd$
	C				27/09/95	21:01:08	3000	1.32	2.5	90	$\surd$
	D				27/09/95	21:56:16	1800	1.41	2.5	90	$\surd$
18525+5518			18:52:32.6	55:18:47.0	25/08/95	22:05:37	3000	1.08	4.0	90	
18595+5048			18:59:34.6	50:48:35.0	26/09/95	20:35:45	1800	1.08	2.5	90	
19120+7320	A	NGC6786	19:12:03.2	73:20:27.0	26/09/95	22:15:12	2400	1.33	2.5	90	
	B				26/09/95	22:57:01	1800	1.38	2.5	90	
20550+1656			20:55:05.3	16:56:02.0	24/08/95	24:11:39	2700	1.17	2.0	90	

Table 2 –Continued

IRAS (1)		Alias (2)	RA(1950) (3)	Dec(1950) (4)	Date-obs (5)	Time(B.T.) (6)	Exp.(sec) (7)	Airmass (8)	Slit(") (9)	PA(°) (10)	Weather (11)
22388+3359		UGC12150	22:38:53.6	33:59:12.0	04/12/94	18:58:55	1200	1.02	3.0	90	$\surd$
22501+2427		MK309	22:50:10.2	24:27:55.0	27/09/95	23:22:03	1800	1.06	2.5	90	$\surd$
23007+0836	A	Arp298,NGC7469	23:00:44.6	8:36:17.0	07/11/94	21:04:50	3600	1.18	5.0	90	
	B	IC5283			04/12/94	20:18:10	2400	1.28	3.0	90	$\surd$
23024+1916			23:02:28.2	19:16:54.0	07/09/94	22:54:17	1800	1.09	3.0	90	$\surd$
23135+2516		IC5298	23:13:31.2	25:16:48.0	02/12/94	19:33:04	3600	1.04	4.0	90	$\surd$
23254+0830	A	MK533,NGC7674	23:25:24.7	8:30:14.0	03/12/94	19:16:35	1200	1.18	3.0	90	$\surd$
	B	NGC7675			03/12/94	18:53:35	1200	1.17	3.0	90	$\surd$
	C				03/12/94	19:41:25	1200	1.19	3.0	90	$\surd$
	D				05/11/94	22:04:10	3600	1.21	5.0	90	
23488+1949	A	MK9006,NGC7771	23:48:52.1	19:49:57.0	06/11/94	22:35:15	3600	1.10	5.0	90	$\surd$
	B	NGC7770			06/11/94	23:40:40	3600	1.54	5.0	90	$\surd$
	C	NGC7769			05/12/94	19:55:45	1800	1.07	3.0	90	$\surd$
23488+2018	A	MK331	23:48:52.9	20:18:19.0	02/12/94	17:55:50	3600	1.16	4.0	90	$\surd$
	B				17/11/96	22:23:50	3600	1.09	3.0	90	$\surd$
23532+2513	A		23:53:16.7	25:13:22.0	26/11/94	19:51:41	3600	1.04	5.0	90	
	B				26/11/94	18:38:54	3600	1.10	5.0	90	
	C				04/12/94	19:26:30	1800	1.03	3.0	90	$\surd$
23594+3622			23:59:24.3	36:22:16.0	26/09/95	24:20:24	2400	1.01	2.5	90	$\surd$

Table 3 Relative fluxes of observed emission-lines - VLIRGs

IRAS (1)		[OII]λ3727 (2)	H$\beta\lambda$4861 (3)	[OIII]λ5007 (4)	HeIλ5876 (5)	[OI]λ6300 (6)	[NII]λ6563 (7)	[SII]λ6716 (8)	[SII]λ6731 (9)	[SII]sum (10)
00189+3748	A	0.12	0.12	0.02:	0.01	0.06	0.41	0.15	0.10	0.25
	B	0.33	0.20	0.10	0.06	0.06;	0.57	–	–	0.39
00267+3016	A	0.30	0.07	0.11	0.02	0.09	0.62	0.25	0.17:	0.41:
	B	0.19	0.10	0.13	–	0.08	0.56	0.15	0.15:	0.30:
00509+1225		–	0.28	–	0.07	–	–	–	–	–
01173+1405		0.53	0.17	0.14	–	0.07	0.38	0.20	0.18	0.38
01324+2138		0.20	0.11	0.33	–	0.07	0.76	–	–	0.35:
01484+2220		–	0.14	0.02:	0.02	0.04	0.39:	0.08	0.09	0.17
01572+0009		0.06	0.35	0.39	0.06	0.01	0.14	0.01:	0.02:	0.03:
02071+3857		0.34;	0.03:	0.04:	–	0.02	0.45	–	–	0.24
02203+3158	A	0.29	0.07:	0.20	–	0.06;	0.73:	–	–	0.31
	B	0.11	0.10	–	–	0.01	0.39	0.14	0.10	0.24
02222+2159		0.20:	0.11;	0.08;	–	0.04	0.40	–	–	0.22:
02248+2621		0.14	0.17	0.07	–	0.02	0.67	0.09	0.12	0.21
02435+1253		0.25:	0.06;	0.12:	–	0.10	0.50:	–	–	0.28:
02512+1446	A	0.21	0.14	0.08	–	0.03	0.45:	0.15	0.13	0.28
	B	–	–	–	–	–	–	–	–	–
03117+4151	A	0.25	0.13	1.02	0.03	0.07	0.86	0.23	0.19	0.42
	B	–	–	–	–	–	0.42	–	–	–
	C	–	–	–	–	–	–	–	–	–
05083+7936		0.35	0.10:	0.06;	–	0.05;	0.41	0.16	0.08	0.24
05414+5840		–	–	–	–	–	1.82	–	–	0.61;
06538+4628		0.61:	0.22	0.12	0.02	0.04	0.44	–	–	0.35
07063+2043	A	0.23:	0.13	0.06	0.02	0.03	0.63	–	–	0.34
07062+2041	B	0.24	0.23	0.10	0.04	0.04;	0.40	0.17	0.13	0.31
07256+3355	A	0.12	0.07	0.02:	0.01	0.01;	0.51	0.12	0.12	0.25
	B	0.15:	0.28	–	0.03	0.03;	0.41	–	–	0.36
	C	–	–	–	–	–	–	–	–	–
08354+2555		–	–	–	–	0.15;	0.83	0.35:	0.27:	0.62:
08507+3520	A	–	–	–	–	–	0.96	0.39	0.33	0.72
	B	0.57;	–	–	–	0.09;	0.61:	–	–	0.50
	C	0.46;	–	–	–	0.09;	0.68	–	–	0.70;
09047+1838		0.15	0.10	0.05:	0.02	0.05	0.45	0.15	0.11	0.27
09126+4432	A	0.43	0.04;	0.11:	–	0.11	0.63	–	–	0.34:
	B	–	–	–	–	–	0.50	–	–	0.36;

Table 3 –Continued

IRAS (1)		[OII]λ3727 (2)	H$\beta\lambda$4861 (3)	[OIII]λ5007 (4)	HeIλ5876 (5)	[OI]λ6300 (6)	[NII]λ6563 (7)	[SII]λ6716 (8)	[SII]λ6731 (9)	[SII]sum (10)
09168+3308		0.32	0.25	0.09	–	0.05;	0.44	–	–	0.29
09320+6134		0.27	0.13:	0.17	–	0.10;	1.09	0.27	0.14	0.41
09333+4841	A	0.24	0.11	0.10	0.04	0.05	0.58	0.17	0.15	0.33
	B	–	–	–	–	–	0.22	–	–	–
09517+6954		–	0.09	0.04	0.02	0.02	0.61	0.12	0.17	0.29
10203+5235		0.27	0.17	0.25	0.03	0.08	0.62	0.24	0.16	0.40
10311+3507		–	0.19	0.04	–	0.05	0.40	0.12:	0.15:	0.27:
10565+2448		0.29	0.12	0.11	–	0.09	0.65	0.17	0.13	0.30
11231+1456	A	0.13	0.12	0.02:	–	0.07	0.53	0.12	0.11	0.23
	B	–	0.15	0.08:	–	0.06	0.76	–	–	0.25
11254+1126		–	0.10	0.18	0.01	0.06	0.86	0.16	0.12	0.28
11257+5850	A	–	0.34	0.30	0.04	0.03	0.34	0.14	0.12	0.25
	B	–	0.21	0.22	0.04	0.07	0.40	0.22	0.18	0.41
11543+0124		0.23:	0.03;	0.08:	–	0.06	0.37	–	–	0.26:
12112+0305	A	0.59	0.16:	0.28:	0.06	0.06;	0.42	–	–	0.56:
	C	0.47	0.22:	0.39	0.05	0.17;	0.60	–	–	0.24:
12120+6838	A	–	0.13	0.12	0.01	0.07	0.57	–	–	0.48
	C	–	0.16;	0.10;	–	0.06;	0.42	0.27:	0.26:	0.53:
	D	0.62	0.22	0.18	–	0.04;	0.33	0.22	0.15	0.36
12251+4026		0.22	0.15	0.06	–	0.03	0.53	–	–	0.27
12265+0219		–	0.70	0.14	0.05	–	0.04	–	–	–
12323+1549	A	0.52;	0.09;	–	0.59	0.12;	0.37	0.37	0.26	0.63
	B	0.10	0.37	0.19	0.05	0.02;	0.15:	0.05	0.04	0.09
12540+5708		–	0.17	–	0.06	–	–	–	–	–
12592+0436		0.34	0.16;	0.16;	–	0.20;	1.05	–	–	0.42:
13136+6223	A	0.34	0.17	0.17	0.04	0.04	0.43	0.15	0.13	0.27
	B	0.13	0.11;	0.22;	–	0.06	0.57	–	–	0.52:
13183+3423		–	0.03:	0.09	0.03	0.12	0.52	–	–	0.34
13299+1121		–	0.19	0.13	0.03	0.03	0.42	0.15	0.13	0.28
13362+4831	A	–	0.23	0.35	0.03	0.12	0.65	0.23	0.25	0.48
	B	–	0.17	1.00	0.04	0.04	0.56	0.23	0.18	0.41
13373+0105	A	–	–	–	–	–	0.50	0.21:	0.15:	0.36:
	B	–	0.26	0.20	0.02	0.02;	0.30	0.16:	0.08:	0.23:
13428+5608		–	0.09	0.71	0.01	0.11	0.87	0.29	0.23	0.53

Table 3 –Continued

IRAS (1)		[OII]λ3727 (2)	H$\beta\lambda$4861 (3)	[OIII]λ5007 (4)	HeIλ5876 (5)	[OI]λ6300 (6)	[NII]λ6563 (7)	[SII]λ6716 (8)	[SII]λ6731 (9)	[SII]sum (10)
13458+1540	A	0.34	0.17	0.09	–	0.04;	0.37	0.18	0.12	0.30
	B	0.32	0.24	0.15	–	0.06;	0.45	0.15	0.14	0.29
13496+0221	A	0.35	0.08:	0.04;	0.08	–	0.61:	–	–	0.22:
	B	0.52	–	–	–	0.06;	0.46	–	–	0.32:
	C	–	–	–	–	–	0.26;	–	–	–
13536+1836		–	0.15	1.24	0.01	0.04	0.42:	0.21	0.17	0.38
14151+2705	A	0.37	0.04:	0.08:	0.07	0.02;	0.72	0.20	0.15	0.35
	B	0.82:	–	–	–	–	0.45	–	–	–
14178+4927		0.09;	0.13	0.05;	–	0.05;	0.71	0.12	0.12	0.24
14547+2448	A	–	0.12:	0.23	–	0.10;	0.80	0.31	0.23	0.55
	B	0.22;	0.29	0.05;	–	–	0.36:	0.15	0.11	0.26;
14568+4504		–	0.19	0.29	0.08	0.05;	0.68	0.16	0.14	0.30
15107+0724		–	–	–	–	–	0.51	0.21	0.17	0.38
15163+4255		–	0.11	0.11	–	0.03	0.48	0.16	0.12	0.28
15327+2340		–	–	–	–	0.33;	1.56	–	–	1.11:
15425+4114	A	–	0.18	0.22	0.04	0.05	0.36	0.19	0.13	0.32
15426+4116	B	–	0.34:	–	–	0.26;	0.60	0.09:	0.14:	0.23:
16104+5235		–	0.18	0.08	0.01	0.01	0.45	0.10	0.09	0.20
16180+3753		–	0.38	0.05;	0.03	0.06;	0.51	0.17:	0.16:	0.33:
16284+0411		–	0.10:	0.03;	–	0.08	0.52	0.12	0.10	0.22
16504+0228		–	0.06	0.12	0.03	0.35	1.15	–	–	1.06
16577+5900	A	–	0.39	–	–	0.13	0.51	0.26:	0.18:	0.44:
	B	–	0.11:	0.11:	0.08	0.07	0.52	0.23	0.16	0.39
16589+0521		0.07;	0.06	0.03:	–	0.03	0.38	–	–	0.30
17366+8646		0.13	0.04:	0.05	–	0.02;	0.38	0.11	0.09	0.20
17392+3845		–	0.14	0.05:	–	0.02;	0.49	0.16	0.11	0.28
17501+6825	A	–	0.17	0.10	–	0.04	0.47	0.14	0.11	0.25
	B	0.22	0.12	0.26	–	0.08	0.59	0.16	0.13	0.28
	C	0.26;	0.14;	0.18;	–	–	0.41	–	–	0.31:
	D	0.16	0.20:	0.06;	–	0.09;	0.55	0.27	0.20	0.47
18525+5518		0.28	0.11:	0.11:	–	0.05	0.49:	0.19	0.09	0.28
18595+5048		0.22	0.06;	0.09;	–	0.03;	0.83	0.20	0.19	0.38
19120+7320	A	0.16	0.09	0.40	–	0.03	0.58	0.16	0.11	0.27
	B	0.16	0.11	0.01;	0.01	0.02;	0.45	0.13	0.10	0.22

Table 3 –Continued

IRAS (1)		[OII]λ3727 (2)	H$\beta\lambda$4861 (3)	[OIII]λ5007 (4)	HeIλ5876 (5)	[OI]λ6300 (6)	[NII]λ6563 (7)	[SII]λ6716 (8)	[SII]λ6731 (9)	[SII]sum (10)
20550+1656		0.46	0.21	0.47	0.04	0.03	0.21	0.09	0.07	0.17
22388+3359		0.19	–	–	–	0.05	0.69	0.16	0.17	0.34
22501+2427		–	0.23	0.09	–	0.03;	0.57	0.05	0.07	0.12
23007+0836	A	0.02	0.30	0.21	0.06	0.01	0.23	0.06:	0.05:	0.11:
	B	–	–	–	–	0.11	0.50	0.28:	0.16:	0.44:
23024+1916		–	0.11	0.12	–	0.05	0.61;	–	–	0.38
23135+2516		0.23	0.11:	0.33	0.02	0.07	1.00	–	–	0.33
23254+0830	A	0.23	0.03;	–	–	0.04	0.49	–	–	0.44
	B	0.47	0.24	2.40	0.03	0.09	0.84	0.15	0.17	0.32
	C	–	–	–	–	–	–	–	–	–
	D	–	–	–	–	–	–	–	–	–
23488+1949	A	0.10	0.10	0.03;	–	0.02	0.38	0.10	0.10	0.19
	B	0.67	0.20	0.14	0.02	0.03	0.33:	–	–	0.31:
	C	0.05	0.14	0.02;	–	0.07	0.40	0.12	0.10	0.22
23488+2018	A	0.08	0.09	0.04:	0.01	0.03	0.55	0.13	0.11	0.24
	B	–	0.28	0.48	–	0.06	0.13	0.14	0.13	0.27
23532+2513	A	0.45;	–	–	–	–	0.46	–	–	–
	B	0.07;	0.39	0.12	0.07	–	0.04:	–	–	–
	C	0.15	0.18	0.20	–	0.03	0.51	–	–	–
23594+3622		0.66	0.03;	0.30	–	0.18	1.98	–	–	0.73

(:) flux value uncertain ($\sim \pm30\%$)

(;) flux value very uncertain ($\sim \pm50\%$)

Table 4 Observed Hα fluxes, Equivalence Widths, and Continuum fluxes – VLIRGs

IRAS		z	Hα ($erg/s/cm^2/Å$)	EW(Hα) emssion(Å)	EW(NaID) absorption(Å)	EW(Hβ) absorption(Å)	C4861 ($erg/s/cm^2/Å$)	C6563 ($erg/s/cm^2/Å$)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
00189+3748	A	0.0366	0.331E-13	56.78	4.20	5.0	0.412E-15	0.583E-15
	B	0.0349	0.118E-13	25.38	3.70	–	0.367E-15	0.465E-15
00267+3016	A	0.0504	0.446E-13:	40.18	2.20	2.9	0.111E-14	0.111E-14
	B	0.0504	0.383E-13:	40.83	2.70	–	0.987E-15	0.938E-15
00509+1225		0.0606	0.242E-12	183.33	–	–	0.156E-14	0.132E-14
01173+1405		0.0313	0.243E-13	102.53	1.50;	–	0.260E-15	0.237E-15
01324+2138		0.0473	0.211E-13:	39.37	5.10	–	0.369E-15	0.536E-15
01484+2220		0.0320	0.330E-13:	41.56:	3.80	7.5	0.691E-15	0.794E-15
01572+0009		0.1626	0.122E-12	211.07	–	–	0.721E-15	0.578E-15
02071+3857		0.0175	0.728E-13	21.80	6.40	4.8	0.281E-14	0.334E-14
02203+3158	A	0.0342	0.344E-13	25.67	6.40	–	0.120E-14	0.134E-14
	B	0.0337	0.408E-13	26.84	2.80	4.2	0.162E-14	0.152E-14
02222+2159		0.0334	0.186E-13	25.07	4.90	–	0.587E-15	0.742E-15
02248+2621		0.0324	0.139E-12	92.67	1.40	–	0.204E-14	0.150E-14
02435+1253		0.0213	0.116E-13	28.09	4.30	–	0.257E-15	0.413E-15
02512+1446	A	0.0317	0.368E-13	97.35	1.90	–	0.384E-15	0.378E-15
	B	0.0329	–	–	6.60	4.7	0.597E-15	0.811E-15
03117+4151	A	0.0234	0.198E-12	101.54	1.90	–	0.150E-14	0.195E-14
	B	0.0320	0.429E-14	10.49	–	–	0.290E-15	0.409E-15
	C	0.0500	–	–	4.70	–	0.715E-15	0.910E-15
05083+7936		0.0551	0.434E-13	76.81	–	–	0.531E-15	0.565E-15
05414+5840		0.0150	0.448E-14	6.79	1.90	6.6	0.430E-15	0.660E-15
06538+4628		0.0217	0.197E-12	83.83	1.30	–	0.346E-14	0.235E-14
07063+2043	A	0.0172	0.111E-12	39.93	3.30	–	0.293E-14	0.278E-14
07062+2041	B	0.0171	0.105E-12	46.26	3.50	6.3	0.277E-14	0.227E-14
07256+3355	A	0.0139	0.120E-12	43.17	6.80	–	0.191E-14	0.278E-14
	B	0.0130	0.470E-13	25.54	2.90	–	0.232E-14	0.184E-14
	C	0.0268	–	–	4.20	–	0.110E-14	0.132E-14
08354+2555		0.0180	0.200E-13	13.07	2.40	9.2	0.153E-14	0.153E-14
08507+3520	A	0.0555	0.675E-14	13.86	–	–	0.455E-15	0.487E-15
	B	0.0567	0.823E-14	35.47	2.50	–	0.220E-15	0.232E-15
	C	0.0563	0.635E-14	37.35	6.30	–	0.194E-15	0.170E-15
09047+1838		0.0292	0.293E-13	40.58	3.80	–	0.606E-15	0.722E-15
09126+4432	A	0.0395	0.132E-13	16.94	3.70	–	0.744E-15	0.779E-15
	B	0.0393	0.717E-13	31.31	–	–	0.193E-14	0.229E-14

Table 4 –Continued

IRAS (1)		z (2)	Hα (erg/s/cm^2/Å) (3)	EW(Hα) emssion(Å) (4)	EW(NaID) absorption(Å) (5)	EW(Hβ) absorption(Å) (6)	C4861 (erg/s/cm^2/Å) (7)	C6563 (erg/s/cm^2/Å) (8)
09168+3308		0.0506	0.268E-13	59.42	1.40	–	0.527E-15	0.451E-15
09320+6134		0.0400	0.222E-13	29.21	5.30	9.3	0.632E-15	0.760E-15
09333+4841	A	0.0261	0.366E-13	38.09	3.50	5.4	0.104E-14	0.961E-15
	B	0.0252	0.470E-14	21.86	–	–	0.276E-15	0.215E-15
09517+6954		0.0011	0.203E-11	153.79	5.80	–	0.782E-14	0.132E-13
10203+5235		0.0323	0.365E-13	44.68	3.90	–	0.824E-15	0.817E-15
10311+3507		0.0713	0.598E-13	83.52	5.00	5.0	0.800E-15	0.716E-15
10565+2448		0.0428	0.223E-13	40.04	6.20	–	0.694E-15	0.557E-15
11231+1456	A	0.0341	0.328E-13	52.73	4.30	–	0.542E-15	0.622E-15
	B	0.0336	0.122E-13	30.20	4.10	–	0.355E-15	0.404E-15
11254+1126		0.0411	0.533E-13	46.75	4.20	–	0.903E-15	0.114E-14
11257+5850	A	0.0105	0.537E-12	159.82	1.20	–	0.488E-14	0.336E-14
	B	0.0103	0.109E-12	155.27	3.70	–	0.719E-15	0.702E-15
11543+0124		0.0400	0.188E-13	28.31	3.50	–	0.686E-15	0.664E-15
12112+0305	A	0.0727	0.122E-13	63.87	5.00	–	0.229E-15	0.191E-15
	C	0.0744	0.161E-13	51.77	1.70	–	0.323E-15	0.311E-15
12120+6838	A	0.0602	0.127E-13	34.05	3.90	–	0.330E-15	0.373E-15
	C	0.0613	0.253E-14	10.04	5.00	–	0.284E-15	0.252E-15
	D	0.0594	0.499E-14	40.57	–	–	0.182E-15	0.123E-15
12251+4026		0.0372	0.419E-13	57.01	4.90	–	0.803E-15	0.735E-15
12265+0219		0.1574	0.182E-11	241.06	–	–	0.151E-13	0.755E-14
12323+1549	A	0.0040	0.271E-13	6.69	1.00	6.8	0.624E-14	0.405E-14
	B	0.0459	0.777E-13	86.24	0.40	–	0.143E-14	0.901E-15
12540+5708		0.0422	0.207E-11	218.82	22.00	–	0.957E-14	0.946E-14
12592+0436		0.0375	0.561E-14	14.27	6.20	9.5	0.427E-15	0.393E-15
13136+6223	A	0.0307	0.181E-12	177.45	1.40	–	0.873E-15	0.102E-14
	B	0.0306	0.254E-13	39.87	–	–	0.459E-15	0.637E-15
13183+3423		0.0229	0.349E-13	55.57	2.60	–	0.606E-15	0.628E-15
13299+1121		0.0318	0.178E-12	163.30	1.40	–	0.111E-14	0.109E-14
13362+4831	A	0.0283	0.141E-12	117.50	2.50	–	0.114E-14	0.120E-14
	B	0.0278	0.506E-13	90.36	2.50	–	0.554E-15	0.560E-15
13373+0105	A	0.0225	0.855E-14	12.41	4.20	–	0.564E-15	0.689E-15
	B	0.0221	0.547E-13	117.38	1.80	–	0.626E-15	0.466E-15
13428+5608		0.0373	0.831E-13	88.31	3.80	–	0.726E-15	0.941E-15

Table 4 –Continued

IRAS		z	Hα (erg/s/cm^2/Å)	EW(Hα) emssion(Å)	EW(NaID) absorption(Å)	EW(Hβ) absorption(Å)	C4861 (erg/s/cm^2/Å)	C6563 (erg/s/cm^2/Å)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
13458+1540	A	0.0582	0.294E-13	66.67	1.80	–	0.658E-15	0.441E-15
	B	0.0577	0.151E-13	47.19	2.70	7.8	0.407E-15	0.320E-15
13496+0221	A	0.0326	0.131E-13	15.61	3.30	6.4	0.834E-15	0.839E-15
	B	0.0341	0.158E-13	23.65	2.70	–	0.564E-15	0.668E-15
	C	0.0320	0.598E-14	23.54	–	–	0.288E-15	0.254E-15
13536+1836		0.0505	0.201E-12:	275.34	0.20;	–	0.705E-15	0.730E-15
14151+2705	A	0.0373	0.286E-13	12.94	2.40	4.4	0.225E-14	0.221E-14
	B	0.0367	0.110E-14	5.47	3.40	–	0.168E-15	0.201E-15
14178+4927		0.0257	0.317E-13	41.38	10.4	4.5	0.663E-15	0.766E-15
14547+2448	A	0.0338	0.982E-14	20.50	5.90	6.1	0.309E-15	0.479E-15
	B	0.0319	0.208E-13	40.62	2.50:	–	0.549E-15	0.512E-15
14568+4504		0.0361	0.415E-13	30.74	3.00	–	0.128E-14	0.135E-14
15107+0724		0.0126	0.900E-14	19.27	0.90;	8.1	0.451E-15	0.467E-15
15163+4255		0.0403	0.992E-13	152.62	3.30	–	0.619E-15	0.650E-15
15327+2340		0.0176	0.359E-14	14.83	5.80	–	0.148E-15	0.242E-15
15425+4114	A	0.0321	0.426E-13	53.72	1.20;	–	0.110E-14	0.793E-15
15426+4116	B	0.0320	0.988E-14	7.97	0.70;	–	0.132E-14	0.124E-14
16104+5235		0.0295	0.284E-12	227.20	1.90	–	0.144E-14	0.125E-14
16180+3753		0.0304	0.362E-13	27.85	4.50	10.0	0.123E-14	0.130E-14
16284+0411		0.0245	0.370E-13	55.31	4.80	9.2	0.472E-15	0.669E-15
16504+0228		0.0243	0.517E-13	114.13	9.20	–	0.178E-15	0.453E-15
16577+5900	A	0.0187	0.141E-13	21.23	2.70	10.1	0.514E-15	0.664E-15
	B	0.0184	0.280E-13	22.40	1.50	4.0	0.101E-14	0.125E-14
16589+0521		0.0502	0.237E-13:	63.20	3.00	–	0.145E-15	0.375E-15
17366+8646		0.0268	0.291E-13	40.76	1.80	–	0.633E-15	0.714E-15
17392+3845		0.0404	0.358E-13	31.96	3.90	–	0.827E-15	0.112E-14
17501+6825	A	0.0513	0.347E-13:	61.31	1.70	–	0.517E-15	0.566E-15
	B	0.0522	0.120E-13	46.69	–	7.3	0.199E-15	0.257E-15
	C	0.0509	0.886E-14:	22.37	3.40	–	0.349E-15	0.396E-15
	D	0.0509	0.150E-13:	29.82	3.50	3.0	0.463E-15	0.503E-15
18525+5518		0.0492	0.176E-13:	37.29	2.00	–	0.388E-15	0.472E-15
18595+5048		0.0272	0.201E-13	21.05	6.00	–	0.685E-15	0.955E-15
19120+7320	A	0.0251	0.404E-13	44.15	1.10	–	0.667E-15	0.915E-15
	B	0.0250	0.704E-13	70.75	2.10	–	0.615E-15	0.995E-15
20550+1656		0.0359	0.306E-12	242.86	0.90	–	0.156E-14	0.126E-14

Table 4 –Continued

IRAS		z	Hα (erg/s/cm^2/Å)	EW(Hα) emssion(Å)	EW(NaID) absorption(Å)	EW(Hβ) absorption(Å)	C4861 (erg/s/cm^2/Å)	C6563 (erg/s/cm^2/Å)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
22388+3359		0.0212	0.185E-13	21.44	5.70	–	0.719E-15	0.863E-15
22501+2427		0.0418	0.790E-13	85.13	1.00	–	0.152E-14	0.928E-15
23007+0836	A	0.0163	0.806E-12	154.70	–	–	0.522E-14	0.521E-14
	B	0.0163	0.144E-13	24.57	4.50	–	0.600E-15	0.586E-15
23024+1916		0.0242	0.227E-13:	37.58:	3.50	–	0.374E-15	0.604E-15
23135+2516		0.0274	0.307E-13	23.98	4.60	4.0	0.104E-14	0.128E-14
23254+0830	A	0.0299	0.602E-13	22.80	3.40	–	0.233E-14	0.264E-14
	B	0.0294	0.342E-12	129.06	2.80	–	0.263E-14	0.265E-14
	C	0.0350	–	–	2.60	3.9	0.253E-14	0.240E-14
	D	0.0285	–	–	3.20	4.9	0.196E-14	0.196E-14
23488+1949	A	0.0147	0.153E-12	43.22	3.20	–	0.327E-14	0.354E-14
	B	0.0145	0.194E-12	108.38	1.30	–	0.226E-14	0.179E-14
	C	0.0152	0.150E-12	41.78	2.80	–	0.410E-14	0.359E-14
23488+2018	A	0.0183	0.107E-12	56.02	8.10	–	0.154E-14	0.191E-14
	B	0.0180	0.657E-14	36.30	–	9.0	0.219E-15	0.181E-15
23532+2513	A	0.0587	0.670E-14	26.59	2.68	–	0.196E-15	0.252E-15
	B	0.0574	0.859E-13	125.40	–	–	0.839E-15	0.685E-15
	C	0.0576	0.210E-13	39.55	3.30	–	0.530E-15	0.531E-15
23594+3622		0.0318	0.140E-13	16.32	2.50:	5.9	0.749E-15	0.858E-15