



























DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink AMPS (FM) @ 1855MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3710	H	58.8	-33.7	5.6	3.5	-31.6	46.6	28
3710	V	55.9	-35.5	5.6	3.5	-33.4	48.4	28
5565	H	42.4	-53.4	6.7	4.4	-51.1	66.1	28
5565	V	42.6	-52.3	6.7	4.4	-50.0	65.0	28
7420	H	43.0	-55.6	7.1	5.7	-54.2	69.2	28
7420	V	44.1	-50.2	7.1	5.7	-48.8	63.8	28
9275	H	40.5	-41.0	8.3	6.3	-39.0	54.0	28
9275	V	40.4	-37.7	8.3	6.3	-35.7	50.7	28
11130	H	39.5	-39.6	7.8	6.9	-38.7	53.7	28
11130	V	39.3	-31.4	7.8	6.9	-30.5	45.5	28
12985	H	42.0	-35.8	8.6	7.5	-34.7	49.7	28
12985	V	41.8	-33.1	8.6	7.5	-32.0	47.0	28
14840	H	42.6	-31.4	6.9	8.1	-32.6	47.6	28
14840	V	42.4	-31.8	6.9	8.1	-33.0	48.0	28
16695	H	43.3	-27.5	7.9	8.2	-27.8	42.8	28
16695	V	43.2	-30.9	7.9	8.2	-31.2	46.2	28
18550	H	42.9	-26.6	8.7	8.4	-26.3	41.3	28
18550	V	42.6	-23.3	8.7	8.4	-23.0	38.0	28

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink AMPS (FM) @ 1875MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY MHz	ANT POL	METER READING dBuV	MATCHED SIGNAL dBm	ANTENNA GAIN dB	CABLE FACTOR dB	ERP TOTAL dB	ATTN dB	MIN ATTN dB
3750	H	53.4	-40.4	5.6	3.5	-38.3	53.3	28
3750	V	51.2	-43.4	5.6	3.5	-41.3	56.3	28
5625	H	41.4	-53.9	6.7	4.4	-51.6	66.6	28
5625	V	41.2	-53.1	6.7	4.4	-50.8	65.8	28
7500	H	42.5	-51.0	7.1	5.9	-49.8	64.8	28
7500	V	43.5	-52.2	7.1	5.9	-51.0	66.0	28
9375	H	40.7	-41.0	8.2	6.3	-39.1	54.1	28
9375	V	39.7	-37.7	8.2	6.3	-35.8	50.8	28
11250	H	40.2	-39.6	7.8	7.0	-38.8	53.8	28
11250	V	39.5	-31.4	7.8	7.0	-30.6	45.6	28
13125	H	42.1	-35.8	8.6	7.5	-34.7	49.7	28
13125	V	42.0	-33.1	8.6	7.5	-32.0	47.0	28
15000	H	42.5	-31.4	6.7	8.1	-32.8	47.8	28
15000	V	43.6	-31.8	6.7	8.1	-33.2	48.2	28
16875	H	44.3	-27.5	8.0	8.1	-27.6	42.6	28
16875	V	43.8	-30.9	8.0	8.1	-31.0	46.0	28
18750	H	46.7	-26.6	8.8	8.3	-26.1	41.1	28
18750	V	46.5	-23.3	8.8	8.3	-22.8	37.8	28

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 3, 2004
NOTES : Tx Uplink AMPS (FM) @ 1905MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3810	H	55.9	-38.3	5.6	3.5	-36.2	51.2	28
3810	V	52.2	-39.9	5.6	3.5	-37.8	52.8	28
5715	H	45.0	-45.8	6.8	4.4	-43.4	58.4	28
5715	V	43.5	-47.6	6.8	4.4	-45.2	60.2	28
7620	H	44.7	-44.3	7.3	6.0	-43.0	58.0	28
7620	V	49.9	-33.6	7.3	6.0	-32.3	47.3	28
9525	H	40.9	-41.0	8.2	6.3	-39.1	54.1	28
9525	V	40.9	-37.7	8.2	6.3	-35.8	50.8	28
11430	H	41.6	-39.6	8.0	7.0	-38.6	53.6	28
11430	V	41.5	-31.4	8.0	7.0	-30.4	45.4	28
13335	H	43.4	-35.8	8.5	7.6	-34.9	49.9	28
13335	V	42.7	-33.1	8.5	7.6	-32.2	47.2	28
15240	H	44.4	-31.4	6.9	8.2	-32.7	47.7	28
15240	V	45.0	-31.8	6.9	8.2	-33.1	48.1	28
17145	H	43.6	-27.5	8.1	8.2	-27.6	42.6	28
17145	V	44.6	-30.9	8.1	8.2	-31.0	46.0	28
19050	H	46.6	-26.6	8.8	8.3	-26.1	41.1	28
19050	V	46.6	-23.3	8.8	8.3	-22.8	37.8	28

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DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Downlink AMPS (FM) @1935MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3870	H	52.2	-42.9	5.6	3.6	-40.9	50.9	23
3870	V	48.4	-40.7	5.6	3.6	-38.7	48.7	23
5805	H	43.6	-48.1	6.7	4.4	-45.8	55.8	23
5805	V	46.2	-39.2	6.7	4.4	-36.9	46.9	23
7740	H	43.8	-48.8	7.3	6.1	-47.6	57.6	23
7740	V	44.2	-58.7	7.3	6.1	-57.5	67.5	23
9675	H	43.8	-40.8	8.1	6.3	-39.0	49.0	23
9675	V	40.9	-58.7	8.1	6.3	-56.9	66.9	23
11610	H	41.3	-41.5	8.0	7.1	-40.6	50.6	23
11610	V	41.1	-60.3	8.0	7.1	-59.4	69.4	23
13545	H	43.2	-36.3	8.5	7.7	-35.5	45.5	23
13545	V	43.5	-37.2	8.5	7.7	-36.4	46.4	23
15480	H	44.6	-32.6	7.0	8.2	-33.8	43.8	23
15480	V	44.7	-33.2	7.0	8.2	-34.4	44.4	23
17415	H	43.7	-31.5	8.2	8.5	-31.8	41.8	23
17415	V	43.8	-32.5	8.2	8.5	-32.8	42.8	23
19350	H	47.0	-20.9	8.9	8.8	-20.8	30.8	23
19350	V	47.1	-22.1	8.9	8.8	-22.0	32.0	23

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DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink AMPS (FM) @ 1955MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3910	H	56.05	-38.4	5.6	3.6	-36.4	46.4	23
3910	V	52.45	-33.9	5.6	3.6	-31.9	41.9	23
5865	H	45.15	-45.4	6.7	4.5	-43.2	53.2	23
5865	V	46.32	-40.7	6.7	4.5	-38.5	48.5	23
7820	H	43.8	-48.8	7.4	6.1	-47.5	57.5	23
7820	V	44.2	-58.7	7.4	6.1	-57.4	67.4	23
9775	H	43.8	-40.8	8.1	6.3	-39.0	49.0	23
9775	V	40.9	-58.7	8.1	6.3	-56.9	66.9	23
11730	H	41.3	-41.5	8.1	7.1	-40.5	50.5	23
11730	V	41.1	-60.3	8.1	7.1	-59.3	69.3	23
13685	H	43.2	-36.3	8.4	7.7	-35.6	45.6	23
13685	V	43.5	-37.2	8.4	7.7	-36.5	46.5	23
15640	H	44.6	-32.6	7.2	8.3	-33.7	43.7	23
15640	V	44.7	-33.2	7.2	8.3	-34.3	44.3	23
17595	H	43.7	-31.5	8.3	8.6	-31.8	41.8	23
17595	V	43.8	-32.5	8.3	8.6	-32.8	42.8	23
19550	H	47.0	-20.9	8.9	8.9	-20.9	30.9	23
19550	V	47.1	-22.1	8.9	8.9	-22.1	32.1	23

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DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Downlink AMPS (FM) @ 1985MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3970	H	48.1	-45.5	5.6	3.6	-43.5	53.5	23.0
3970	V	46.2	-45.0	5.6	3.6	-43.0	53.0	23.0
5955	H	42.0	-53.1	6.7	4.5	-50.9	60.9	23.0
5955	V	42.3	-47.5	6.7	4.5	-45.3	55.3	23.0
7940	H	44.0	-47.6	7.4	6.2	-46.4	56.4	23.0
7940	V	45.5	-43.2	7.4	6.2	-42.0	52.0	23.0
9925	H	39.7	-58.7	8.1	6.3	-56.9	66.9	23.0
9925	V	38.9	-41.5	8.1	6.3	-39.7	49.7	23.0
11910	H	40.0	-60.3	8.1	7.2	-59.4	69.4	23.0
11910	V	39.5	-36.3	8.1	7.2	-35.4	45.4	23.0
13895	H	42.1	-37.2	8.4	7.8	-36.6	46.6	23.0
13895	V	42.4	-32.6	8.4	7.8	-32.0	42.0	23.0
15880	H	43.8	-33.2	7.3	8.4	-34.3	44.3	23.0
15880	V	42.9	-31.5	7.3	8.4	-32.6	42.6	23.0
17865	H	42.9	-32.5	8.4	8.9	-33.0	43.0	23.0
17865	V	42.2	-20.9	8.4	8.9	-21.4	31.4	23.0
19850	H	46.0	-22.1	9.0	9.0	-22.1	32.1	23.0
19850	V	45.5	-22.1	9.0	9.0	-22.1	32.1	23.0

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MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink CDMA @ 1855MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY MHz	ANT POL	METER READING dBuV	MATCHED SIGNAL dBm	ANTENNA GAIN dB	CABLE FACTOR dB	ERP TOTAL dB	ATTN dB	MIN ATTN dB
3710	H	56.4	-36.0	5.6	3.5	-33.9	48.9	28
3710	V	56.8	-37.9	5.6	3.5	-35.8	50.8	28
5565	H	39.0	-65.8	6.7	4.4	-63.5	78.5	28
5565	V	41.6	-53.2	6.7	4.4	-50.9	65.9	28
7420	H	43.6	-52.2	7.1	5.7	-50.8	65.8	28
7420	V	43.0	-49.6	7.1	5.7	-48.2	63.2	28
9275	H	41.2	-41.7	8.3	6.3	-39.7	54.7	28
9275	V	41.4	-33.4	8.3	6.3	-31.4	46.4	28
11130	H	40.4	-41.0	7.8	6.9	-40.1	55.1	28
11130	V	40.8	-37.7	7.8	6.9	-36.8	51.8	28
12985	H	43.4	-39.6	8.6	7.5	-38.5	53.5	28
12985	V	43.2	-31.4	8.6	7.5	-30.3	45.3	28
14840	H	44.0	-35.8	6.9	8.1	-37.0	52.0	28
14840	V	43.8	-33.1	6.9	8.1	-34.3	49.3	28
16695	H	44.0	-31.4	7.9	8.2	-31.7	46.7	28
16695	V	43.7	-31.8	7.9	8.2	-32.1	47.1	28
18550	H	42.4	-27.5	8.7	8.4	-27.2	42.2	28
18550	V	42.5	-30.9	8.7	8.4	-30.6	45.6	28

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DATE : March 2, 2004
NOTES : Tx Uplink CDMA @ 1875MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY MHz	ANT POL	METER READING dBuV	MATCHED SIGNAL dBm	ANTENNA GAIN dB	CABLE FACTOR dB	ERP TOTAL dB	ATTN dB	MIN ATTN dB
3750	H	53.0	-41.0	5.6	3.5	-38.9	53.9	28
3750	V	51.0	-42.4	5.6	3.5	-40.3	55.3	28
5625	H	39.3	-62.3	6.7	4.4	-60.0	75.0	28
5625	V	39.2	-60.2	6.7	4.4	-57.9	72.9	28
7500	H	41.5	-62.3	7.1	5.9	-61.1	76.1	28
7500	V	44.0	-50.2	7.1	5.9	-49.0	64.0	28
9375	H	41.3	-41.0	8.2	6.3	-39.1	54.1	28
9375	V	39.9	-37.7	8.2	6.3	-35.8	50.8	28
11250	H	40.7	-39.6	7.8	7.0	-38.8	53.8	28
11250	V	40.0	-31.4	7.8	7.0	-30.6	45.6	28
13125	H	42.7	-35.8	8.6	7.5	-34.7	49.7	28
13125	V	43.2	-33.1	8.6	7.5	-32.0	47.0	28
15000	H	43.8	-31.4	6.7	8.1	-32.8	47.8	28
15000	V	43.9	-31.8	6.7	8.1	-33.2	48.2	28
16875	H	44.1	-27.5	8.0	8.1	-27.6	42.6	28
16875	V	44.3	-30.9	8.0	8.1	-31.0	46.0	28
18750	H	46.6	-26.6	8.8	8.3	-26.1	41.1	28
18750	V	46.6	-23.3	8.8	8.3	-22.8	37.8	28

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SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink CDMA @ 1905MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3810	H	52.5	-42.3	5.6	3.5	-40.2	55.2	28
3810	V	46.3	-47.8	5.6	3.5	-45.7	60.7	28
5715	H	37.9	-59.3	6.8	4.4	-56.9	71.9	28
5715	V	37.7	-57.3	6.8	4.4	-54.9	69.9	28
7620	H	43.6	-44.6	7.3	6.0	-43.3	58.3	28
7620	V	47.6	-36.4	7.3	6.0	-35.1	50.1	28
9525	H	40.3	-41.0	8.2	6.3	-39.1	54.1	28
9525	V	39.8	-37.7	8.2	6.3	-35.8	50.8	28
11430	H	39.8	-39.6	8.0	7.0	-38.6	53.6	28
11430	V	39.9	-31.4	8.0	7.0	-30.4	45.4	28
13335	H	43.5	-35.8	8.5	7.6	-34.9	49.9	28
13335	V	42.8	-33.1	8.5	7.6	-32.2	47.2	28
15240	H	44.2	-31.4	6.9	8.2	-32.7	47.7	28
15240	V	44.5	-31.8	6.9	8.2	-33.1	48.1	28
17145	H	44.6	-27.5	8.1	8.2	-27.6	42.6	28
17145	V	44.2	-30.9	8.1	8.2	-31.0	46.0	28
19050	H	46.9	-26.6	8.8	8.3	-26.1	41.1	28
19050	V	46.6	-23.3	8.8	8.3	-22.8	37.8	28

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MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink CDMA @ 1935MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3870	H	47.6	-49.1	5.6	3.6	-47.1	57.1	23
3870	V	44.4	-46.7	5.6	3.6	-44.7	54.7	23
5805	H	42.7	-48.7	6.7	4.4	-46.4	56.4	23
5805	V	44.4	-43.5	6.7	4.4	-41.2	51.2	23
7740	H	42.0	-48.8	7.3	6.1	-47.6	57.6	23
7740	V	42.6	-58.7	7.3	6.1	-57.5	67.5	23
9675	H	40.4	-40.8	8.1	6.3	-39.0	49.0	23
9675	V	40.3	-58.7	8.1	6.3	-56.9	66.9	23
11610	H	40.2	-41.5	8.0	7.1	-40.6	50.6	23
11610	V	41.3	-60.3	8.0	7.1	-59.4	69.4	23
13545	H	41.6	-36.3	8.5	7.7	-35.5	45.5	23
13545	V	41.2	-37.2	8.5	7.7	-36.4	46.4	23
15480	H	44.2	-32.6	7.0	8.2	-33.8	43.8	23
15480	V	45.2	-33.2	7.0	8.2	-34.4	44.4	23
17415	H	42.8	-31.5	8.2	8.5	-31.8	41.8	23
17415	V	43.2	-32.5	8.2	8.5	-32.8	42.8	23
19350	H	46.4	-20.9	8.9	8.8	-20.8	30.8	23
19350	V	45.7	-22.1	8.9	8.8	-22.0	32.0	23

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SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink CDMA @ 1955MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3910	H	50.3	-44.0	5.6	3.6	-42.0	52.0	23
3910	V	52.9	-33.5	5.6	3.6	-31.5	41.5	23
5865	H	51.0	-36.1	6.7	4.5	-33.9	43.9	23
5865	V	50.8	-35.2	6.7	4.5	-33.0	43.0	23
7820	H	42.9	-58.7	7.4	6.1	-57.4	67.4	23
7820	V	42.8	-40.8	7.4	6.1	-39.5	49.5	23
9775	H	40.2	-58.7	8.1	6.3	-56.9	66.9	23
9775	V	40.6	-41.5	8.1	6.3	-39.7	49.7	23
11730	H	40.4	-60.3	8.1	7.1	-59.3	69.3	23
11730	V	40.3	-36.3	8.1	7.1	-35.3	45.3	23
13685	H	43.1	-37.2	8.4	7.7	-36.5	46.5	23
13685	V	43.0	-32.6	8.4	7.7	-31.9	41.9	23
15640	H	44.2	-33.2	7.2	8.3	-34.3	44.3	23
15640	V	44.1	-31.5	7.2	8.3	-32.6	42.6	23
17595	H	45.2	-32.5	8.3	8.6	-32.8	42.8	23
17595	V	45.3	-20.9	8.3	8.6	-21.2	31.2	23
19550	H	47.1	-22.1	8.9	8.9	-22.1	32.1	23
19550	V	46.9	-22.1	8.9	8.9	-22.1	32.1	23

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink GSM @ 1985MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP	ATTN	MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3970	H	48.1	-45.0	5.6	3.6	-43.0	53.0	23
3970	V	46.1	-46.2	5.6	3.6	-44.2	54.2	23
5955	H	44.1	-49.1	6.7	4.5	-46.9	56.9	23
5955	V	44.7	-46.0	6.7	4.5	-43.8	53.8	23
7940	H	42.9	-54.2	7.4	6.2	-53.0	63.0	23
7940	V	44.2	-46.5	7.4	6.2	-45.3	55.3	23
9925	H	40.1	-58.7	8.1	6.3	-56.9	66.9	23
9925	V	40.3	-41.5	8.1	6.3	-39.7	49.7	23
11910	H	41.3	-60.3	8.1	7.2	-59.4	69.4	23
11910	V	40.6	-36.3	8.1	7.2	-35.4	45.4	23
13895	H	42.8	-37.2	8.4	7.8	-36.6	46.6	23
13895	V	42.8	-32.6	8.4	7.8	-32.0	42.0	23
15880	H	44.8	-33.2	7.3	8.4	-34.3	44.3	23
15880	V	45.2	-31.5	7.3	8.4	-32.6	42.6	23
17865	H	44.2	-32.5	8.4	8.9	-33.0	43.0	23
17865	V	45.0	-20.9	8.4	8.9	-21.4	31.4	23
19850	H	47.2	-22.1	9.0	9.0	-22.1	32.1	23
19850	V	47.2	-22.1	9.0	9.0	-22.1	32.1	23

CHECKED BY:

Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink GSM @ 1855MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3710	H	58.2	-34.0	5.6	3.5	-31.9	46.9	28
3710	V	59.1	-35.4	5.6	3.5	-33.3	48.3	28
5565	H	44.2	-50.9	6.7	4.4	-48.6	63.6	28
5565	V	45.0	-46.8	6.7	4.4	-44.5	59.5	28
7420	H	44.8	-49.4	7.1	5.7	-48.0	63.0	28
7420	V	44.9	-47.0	7.1	5.7	-45.6	60.6	28
9275	H	42.3	-41.0	8.3	6.3	-39.0	54.0	28
9275	V	43.1	-37.7	8.3	6.3	-35.7	50.7	28
11130	H	41.5	-39.6	7.8	6.9	-38.7	53.7	28
11130	V	40.9	-31.4	7.8	6.9	-30.5	45.5	28
12985	H	42.3	-35.8	8.6	7.5	-34.7	49.7	28
12985	V	43.9	-33.1	8.6	7.5	-32.0	47.0	28
14840	H	43.1	-31.4	6.9	8.1	-32.6	47.6	28
14840	V	43.1	-31.8	6.9	8.1	-33.0	48.0	28
16695	H	44.6	-27.5	7.9	8.2	-27.8	42.8	28
16695	V	44.3	-30.9	7.9	8.2	-31.2	46.2	28
18550	H	42.9	-26.6	8.7	8.4	-26.3	41.3	28
18550	V	42.9	-23.3	8.7	8.4	-23.0	38.0	28

CHECKED BY:

Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink GSM @ 1875MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY MHz	ANT POL	METER READING dBuV	MATCHED SIGNAL dBm	ANTENNA GAIN dB	CABLE FACTOR dB	ERP TOTAL dB	ATTN dB	MIN ATTN dB
3750	H	50.0	-43.8	5.6	3.5	-41.7	56.7	28
3750	V	46.8	-37.0	5.6	3.5	-34.9	49.9	28
5625	H	39.2	-43.4	6.7	4.4	-41.1	56.1	28
5625	V	39.4	-39.7	6.7	4.4	-37.4	52.4	28
7500	H	42.2	-41.7	7.1	5.9	-40.5	55.5	28
7500	V	42.3	-33.4	7.1	5.9	-32.2	47.2	28
9375	H	40.3	-41.0	8.2	6.3	-39.1	54.1	28
9375	V	40.6	-37.7	8.2	6.3	-35.8	50.8	28
11250	H	40.7	-39.6	7.8	7.0	-38.8	53.8	28
11250	V	41.1	-31.4	7.8	7.0	-30.6	45.6	28
13125	H	42.7	-35.8	8.6	7.5	-34.7	49.7	28
13125	V	42.7	-33.1	8.6	7.5	-32.0	47.0	28
15000	H	43.6	-31.4	6.7	8.1	-32.8	47.8	28
15000	V	43.5	-31.8	6.7	8.1	-33.2	48.2	28
16875	H	44.0	-27.5	8.0	8.1	-27.6	42.6	28
16875	V	43.4	-30.9	8.0	8.1	-31.0	46.0	28
18750	H	45.7	-26.6	8.8	8.3	-26.1	41.1	28
18750	V	46.0	-23.3	8.8	8.3	-22.8	37.8	28

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 3, 2004
NOTES : Tx Uplink GSM @ 1905MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3810	H	55.9	-38.3	5.6	3.5	-36.2	51.2	28
3810	V	52.2	-39.9	5.6	3.5	-37.8	52.8	28
5715	H	45.0	-45.8	6.8	4.4	-43.4	58.4	28
5715	V	43.5	-47.6	6.8	4.4	-45.2	60.2	28
7620	H	44.7	-44.3	7.3	6.0	-43.0	58.0	28
7620	V	49.9	-33.6	7.3	6.0	-32.3	47.3	28
9525	H	40.9	-41.0	8.2	6.3	-39.1	54.1	28
9525	V	40.9	-37.7	8.2	6.3	-35.8	50.8	28
11430	H	41.6	-39.6	8.0	7.0	-38.6	53.6	28
11430	V	41.5	-31.4	8.0	7.0	-30.4	45.4	28
13335	H	43.4	-35.8	8.5	7.6	-34.9	49.9	28
13335	V	42.7	-33.1	8.5	7.6	-32.2	47.2	28
15240	H	44.4	-31.4	6.9	8.2	-32.7	47.7	28
15240	V	45.0	-31.8	6.9	8.2	-33.1	48.1	28
17145	H	43.6	-27.5	8.1	8.2	-27.6	42.6	28
17145	V	44.6	-30.9	8.1	8.2	-31.0	46.0	28
19050	H	46.6	-26.6	8.8	8.3	-26.1	41.1	28
19050	V	46.6	-23.3	8.8	8.3	-22.8	37.8	28

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink GSM @ 1935MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3870	H	56.1	-36.9	5.6	3.6	-34.9	44.9	23
3870	V	52.6	-37.4	5.6	3.6	-35.4	45.4	23
5805	H	50.2	-40.2	6.7	4.4	-37.9	47.9	23
5805	V	54.4	-34.3	6.7	4.4	-32.0	42.0	23
7740	H	43.8	-48.8	7.3	6.1	-47.6	57.6	23
7740	V	44.2	-58.7	7.3	6.1	-57.5	67.5	23
9675	H	43.8	-40.8	8.1	6.3	-39.0	49.0	23
9675	V	40.9	-58.7	8.1	6.3	-56.9	66.9	23
11610	H	41.3	-41.5	8.0	7.1	-40.6	50.6	23
11610	V	41.1	-60.3	8.0	7.1	-59.4	69.4	23
13545	H	43.2	-36.3	8.5	7.7	-35.5	45.5	23
13545	V	43.5	-37.2	8.5	7.7	-36.4	46.4	23
15480	H	44.6	-32.6	7.0	8.2	-33.8	43.8	23
15480	V	44.7	-33.2	7.0	8.2	-34.4	44.4	23
17415	H	43.7	-31.5	8.2	8.5	-31.8	41.8	23
17415	V	43.8	-32.5	8.2	8.5	-32.8	42.8	23
19350	H	47.0	-20.9	8.9	8.8	-20.8	30.8	23
19350	V	47.1	-22.1	8.9	8.8	-22.0	32.0	23

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Downlink GSM @ 1955MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP	ATTN	MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3910	H	59.3	-34.9	5.6	3.6	-32.9	42.9	23
3910	V	53.1	-33.5	5.6	3.6	-31.5	41.5	23
5865	H	49.0	-38.9	6.7	4.5	-36.7	46.7	23
5865	V	49.4	-37.2	6.7	4.5	-35.0	45.0	23
7820	H	42.9	-58.7	7.4	6.1	-57.4	67.4	23
7820	V	43.3	-40.8	7.4	6.1	-39.5	49.5	23
9775	H	40.3	-58.7	8.1	6.3	-56.9	66.9	23
9775	V	40.0	-41.5	8.1	6.3	-39.7	49.7	23
11730	H	42.7	-60.3	8.1	7.1	-59.3	69.3	23
11730	V	43.2	-36.3	8.1	7.1	-35.3	45.3	23
13685	H	43.1	-37.2	8.4	7.7	-36.5	46.5	23
13685	V	43.4	-32.6	8.4	7.7	-31.9	41.9	23
15640	H	44.8	-33.2	7.2	8.3	-34.3	44.3	23
15640	V	44.6	-31.5	7.2	8.3	-32.6	42.6	23
17595	H	44.6	-32.5	8.3	8.6	-32.8	42.8	23
17595	V	44.2	-20.9	8.3	8.6	-21.2	31.2	23
19550	H	47.5	-22.1	8.9	8.9	-22.1	32.1	23
19550	V	47.1	-22.1	8.9	8.9	-22.1	32.1	23

CHECKED BY:

Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink GSM @ 1985MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP	ATTN	MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3970	H	48.1	-45.0	5.6	3.6	-43.0	53.0	23
3970	V	46.1	-46.2	5.6	3.6	-44.2	54.2	23
5955	H	44.1	-49.1	6.7	4.5	-46.9	56.9	23
5955	V	44.7	-46.0	6.7	4.5	-43.8	53.8	23
7940	H	42.9	-54.2	7.4	6.2	-53.0	63.0	23
7940	V	44.2	-46.5	7.4	6.2	-45.3	55.3	23
9925	H	40.1	-58.7	8.1	6.3	-56.9	66.9	23
9925	V	40.3	-41.5	8.1	6.3	-39.7	49.7	23
11910	H	41.3	-60.3	8.1	7.2	-59.4	69.4	23
11910	V	40.6	-36.3	8.1	7.2	-35.4	45.4	23
13895	H	42.8	-37.2	8.4	7.8	-36.6	46.6	23
13895	V	42.8	-32.6	8.4	7.8	-32.0	42.0	23
15880	H	44.8	-33.2	7.3	8.4	-34.3	44.3	23
15880	V	45.2	-31.5	7.3	8.4	-32.6	42.6	23
17865	H	44.2	-32.5	8.4	8.9	-33.0	43.0	23
17865	V	45.0	-20.9	8.4	8.9	-21.4	31.4	23
19850	H	47.2	-22.1	9.0	9.0	-22.1	32.1	23
19850	V	47.2	-22.1	9.0	9.0	-22.1	32.1	23

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink TDMA @ 1855MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3710	H	56.5	-36.0	5.6	3.5	-33.9	48.9	28
3710	V	57.2	-36.9	5.6	3.5	-34.8	49.8	28
5565	H	40.8	-56.2	6.7	4.4	-53.9	68.9	28
5565	V	41.4	-54.0	6.7	4.4	-51.7	66.7	28
7420	H	43.1	-55.6	7.1	5.7	-54.2	69.2	28
7420	V	45.2	-47.4	7.1	5.7	-46.0	61.0	28
9275	H	40.8	-41.7	8.3	6.3	-39.7	54.7	28
9275	V	41.2	-33.4	8.3	6.3	-31.4	46.4	28
11130	H	39.8	-41.0	7.8	6.9	-40.1	55.1	28
11130	V	40.0	-37.7	7.8	6.9	-36.8	51.8	28
12985	H	43.7	-39.6	8.6	7.5	-38.5	53.5	28
12985	V	43.4	-31.4	8.6	7.5	-30.3	45.3	28
14840	H	44.2	-35.8	6.9	8.1	-37.0	52.0	28
14840	V	43.6	-33.1	6.9	8.1	-34.3	49.3	28
16695	H	44.1	-31.4	7.9	8.2	-31.7	46.7	28
16695	V	44.2	-31.8	7.9	8.2	-32.1	47.1	28
18550	H	44.3	-27.5	8.7	8.4	-27.2	42.2	28
18550	V	44.5	-30.9	8.7	8.4	-30.6	45.6	28

CHECKED BY: Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink TDMA @ 1875MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY MHz	ANT POL	METER READING dBuV	MATCHED SIGNAL dBm	ANTENNA GAIN dB	CABLE FACTOR dB	ERP TOTAL dB	ATTN dB	MIN ATTN dB
3750	H	54.1	-39.4	5.6	3.5	-37.3	52.3	28
3750	V	55.6	-37.3	5.6	3.5	-35.2	50.2	28
5625	H	39.2	-60.9	6.7	4.4	-58.6	73.6	28
5625	V	40.0	-59.6	6.7	4.4	-57.3	72.3	28
7500	H	42.2	-51.0	7.1	5.9	-49.8	64.8	28
7500	V	44.6	-46.5	7.1	5.9	-45.3	60.3	28
9375	H	41.3	-41.0	8.2	6.3	-39.1	54.1	28
9375	V	40.5	-37.7	8.2	6.3	-35.8	50.8	28
11250	H	40.7	-39.6	7.8	7.0	-38.8	53.8	28
11250	V	40.7	-31.4	7.8	7.0	-30.6	45.6	28
13125	H	40.6	-35.8	8.6	7.5	-34.7	49.7	28
13125	V	40.5	-33.1	8.6	7.5	-32.0	47.0	28
15000	H	43.2	-31.4	6.7	8.1	-32.8	47.8	28
15000	V	43.0	-31.8	6.7	8.1	-33.2	48.2	28
16875	H	44.1	-27.5	8.0	8.1	-27.6	42.6	28
16875	V	44.0	-30.9	8.0	8.1	-31.0	46.0	28
18750	H	44.5	-26.6	8.8	8.3	-26.1	41.1	28
18750	V	44.6	-23.3	8.8	8.3	-22.8	37.8	28

CHECKED BY: RICHARD E. KING
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Uplink TDMA @ 1905MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3810	H	55.3	-39.4	5.6	3.5	-37.3	52.3	28
3810	V	50.2	-43.1	5.6	3.5	-41.0	56.0	28
5715	H	39.0	-57.9	6.8	4.4	-55.5	70.5	28
5715	V	40.0	-53.8	6.8	4.4	-51.4	66.4	28
7620	H	48.8	-36.0	7.3	6.0	-34.7	49.7	28
7620	V	50.1	-34.1	7.3	6.0	-32.8	47.8	28
9525	H	39.0	-41.0	8.2	6.3	-39.1	54.1	28
9525	V	40.2	-37.7	8.2	6.3	-35.8	50.8	28
11430	H	40.3	-39.6	8.0	7.0	-38.6	53.6	28
11430	V	40.4	-31.4	8.0	7.0	-30.4	45.4	28
13335	H	43.0	-35.8	8.5	7.6	-34.9	49.9	28
13335	V	42.8	-33.1	8.5	7.6	-32.2	47.2	28
15240	H	44.6	-31.4	6.9	8.2	-32.7	47.7	28
15240	V	44.7	-31.8	6.9	8.2	-33.1	48.1	28
17145	H	44.2	-27.5	8.1	8.2	-27.6	42.6	28
17145	V	44.0	-30.9	8.1	8.2	-31.0	46.0	28
19050	H	46.7	-26.6	8.8	8.3	-26.1	41.1	28
19050	V	46.4	-23.3	8.8	8.3	-22.8	37.8	28

CHECKED BY:

Richard E. King
Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Downlink TDMA @ 1935MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3870	H	51.1	-44.6	5.6	3.6	-42.6	52.6	23
3870	V	47.3	-42.4	5.6	3.6	-40.4	50.4	23
5805	H	43.3	-48.7	6.7	4.4	-46.4	56.4	23
5805	V	44.2	-43.5	6.7	4.4	-41.2	51.2	23
7740	H	41.5	-48.8	7.3	6.1	-47.6	57.6	23
7740	V	41.6	-58.7	7.3	6.1	-57.5	67.5	23
9675	H	40.2	-40.8	8.1	6.3	-39.0	49.0	23
9675	V	39.6	-58.7	8.1	6.3	-56.9	66.9	23
11610	H	40.0	-41.5	8.0	7.1	-40.6	50.6	23
11610	V	39.8	-60.3	8.0	7.1	-59.4	69.4	23
13545	H	42.4	-36.3	8.5	7.7	-35.5	45.5	23
13545	V	42.3	-37.2	8.5	7.7	-36.4	46.4	23
15480	H	43.7	-32.6	7.0	8.2	-33.8	43.8	23
15480	V	43.0	-33.2	7.0	8.2	-34.4	44.4	23
17415	H	42.5	-31.5	8.2	8.5	-31.8	41.8	23
17415	V	42.6	-32.5	8.2	8.5	-32.8	42.8	23
19350	H	45.5	-20.9	8.9	8.8	-20.8	30.8	23
19350	V	46.1	-22.1	8.9	8.8	-22.0	32.0	23

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DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 2, 2004
NOTES : Tx Downlink TDMA @ 1955MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3910	H	58.9	-34.3	5.6	3.6	-32.3	42.3	23
3910	V	52.1	-33.9	5.6	3.6	-31.9	41.9	23
5865	H	44.5	-45.5	6.7	4.5	-43.3	53.3	23
5865	V	46.4	-40.4	6.7	4.5	-38.2	48.2	23
7820	H	41.6	-58.7	7.4	6.1	-57.4	67.4	23
7820	V	41.9	-40.8	7.4	6.1	-39.5	49.5	23
9775	H	40.2	-58.7	8.1	6.3	-56.9	66.9	23
9775	V	39.3	-41.5	8.1	6.3	-39.7	49.7	23
11730	H	39.8	-60.3	8.1	7.1	-59.3	69.3	23
11730	V	40.0	-36.3	8.1	7.1	-35.3	45.3	23
13685	H	42.3	-37.2	8.4	7.7	-36.5	46.5	23
13685	V	42.0	-32.6	8.4	7.7	-31.9	41.9	23
15640	H	43.1	-33.2	7.2	8.3	-34.3	44.3	23
15640	V	42.9	-31.5	7.2	8.3	-32.6	42.6	23
17595	H	43.6	-32.5	8.3	8.6	-32.8	42.8	23
17595	V	43.2	-20.9	8.3	8.6	-21.2	31.2	23
19550	H	46.4	-22.1	8.9	8.9	-22.1	32.1	23
19550	V	47.3	-22.1	8.9	8.9	-22.1	32.1	23

CHECKED BY:


Richard E. King



DATA SHEET

MANUFACTURER : TRL TECHNOLOGY
MODEL : BDA8001900-1
SERIA NO. : 2
SPECIFICATION : FCC-24 SPURIOUS RADIATED EMISSIONS
DATE : March 4, 2004
NOTES : Tx Downlink TDMA @ 1985MHz
: TEST DISTANCE IS 3 METERS

FREQUENCY	ANT	METER	MATCHED	ANTENNA	CABLE	ERP		MIN
MHz	POL	READING	SIGNAL	GAIN	FACTOR	TOTAL	ATTN	ATTN
		dBuV	dBm	dB	dB	dB	dB	dB
3970	H	49.1	-44.6	5.6	3.6	-42.6	52.6	23
3970	V	46.3	-45.0	5.6	3.6	-43.0	53.0	23
5955	H	43.6	-50.6	6.7	4.5	-48.4	58.4	23
5955	V	45.6	-46.1	6.7	4.5	-43.9	53.9	23
7940	H	43.6	-47.6	7.4	6.2	-46.4	56.4	23
7940	V	44.1	-46.4	7.4	6.2	-45.2	55.2	23
9925	H	40.1	-58.7	8.1	6.3	-56.9	66.9	23
9925	V	39.2	-41.5	8.1	6.3	-39.7	49.7	23
11910	H	39.8	-60.3	8.1	7.2	-59.4	69.4	23
11910	V	39.5	-36.3	8.1	7.2	-35.4	45.4	23
13895	H	41.5	-37.2	8.4	7.8	-36.6	46.6	23
13895	V	41.6	-32.6	8.4	7.8	-32.0	42.0	23
15880	H	43.5	-33.2	7.3	8.4	-34.3	44.3	23
15880	V	43.5	-31.5	7.3	8.4	-32.6	42.6	23
17865	H	42.5	-32.5	8.4	8.9	-33.0	43.0	23
17865	V	42.7	-20.9	8.4	8.9	-21.4	31.4	23
19850	H	46.4	-22.1	9.0	9.0	-22.1	32.1	23
19850	V	45.5	-22.1	9.0	9.0	-22.1	32.1	23

CHECKED BY: Richard E. King
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