

# **Intertek Testing Services**

**GVC Corporation**

**900 MHz DSSS Cordless Telephone**

**Model: 39520**

**FCC ID: DK4CT9000**

**Job # J98026020**

**Pages 65to 72 of the Test Report**



1365 Adams Court, Menlo Park CA 94025

## Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (base unit)  
Project #: J98026020  
Test Mode: TX/low channel

Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: Not labelled  
Engineer: Ahmad  
Date of Test: 10/5/98 Initial: [signature]

Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
Number: B	B	12	0	0	limits_	12
Model: EMCO 311	CDL P1000	Green M+L	None	None	Test Distance	3 meters

Frequency MHz	Reading dB(μV)	Dist. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert Loss dB	D. F. dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB
2712.8	45.0	A	V	27.9	28.4	2.3	0.0	46.8	54.0	-7.2
2712.8	50.0	P	V	27.9	28.4	2.3	0.0	51.8	74.0	-22.2
3616.8	51.0	P	H	31.5	27.8	2.7	0.0	57.4	74.0	-16.7
3616.8	43.0	A	H	31.5	27.8	2.7	0.0	49.4	54.0	-4.6
4521.3	51.0	P	V	32.1	27.9	3.2	0.0	58.4	74.0	-15.6
4521.3	42.0	A	V	32.1	27.9	3.2	0.0	49.4	54.0	-4.6
5425.3	45.0	P	H	32.9	28.3	3.5	0.0	53.1	74.0	-20.9
5425.3	41.2	A	H	32.9	28.3	3.5	0.0	49.3	54.0	-4.7

Notes: a) P: Peak, A: Average, Q: Quasi Peak, H: Horizontal, V: Vertical, OCF: Other Correction Factor, DF: Distance Factor  
b) Insert Loss = Cable A + Cable B + OCF  
c) Negative signs (-) in Margin column signify levels below the limits  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Ver:4/5/98



1365 Adams Court, Menlo Park, CA 94025

## Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (base unit)  
Project #: J98026020  
Test Mode: TX MID channel

Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: Not labelled  
Engineer: Alanad  
Date of Test: 10/5/98 Initial: [signature]

Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
8	8	12	0	0		12
Model: EMCO 311	CDI P1000	Green M+L	None	None		Test Distance: 3 meters

Frequency MHz	Reading dB(μV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB
2743.0	45.0	A	V	27.9	28.4	2.3	0.0	46.8	54.0	7.2
2743.0	50.0	P	V	27.9	28.4	2.3	0.0	51.8	74.0	22.2
3658.0	44.0	P	V	31.3	27.8	2.7	0.0	50.2	74.0	23.8
3658.0	38.0	A	V	31.3	27.8	2.7	0.0	44.2	54.0	9.8
4572.0	42.8	P	V	32.1	27.9	3.2	0.0	50.2	74.0	23.8
4572.0	38.0	A	V	32.1	27.9	3.2	0.0	45.4	54.0	8.6
7315.0	40.0	P	V	36.3	28.0	4.3	0.0	52.6	74.0	21.4
7315.0	39.0	A	V	36.3	28.0	4.3	0.0	47.1	54.0	6.4
8228.0	44.0	P	V	36.9	27.2	4.8	0.0	50.4	74.0	23.6
8228.0	35.0	A	V	36.9	27.2	4.8	0.0	40.4	54.0	13.6

**Notes:**  
a) P: Peak, A: Average, Q: Quasi Peak, H: horizontal, V: Vertical, OCF: Other Correction Factor, DF: Distance Factor  
b) Insert. Loss = Cable A + Cable B + OCF  
c) Negative signs (-) in Margin column signify levels below the limits  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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## ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

### Radated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (base unit)  
Project #: J98026020  
Test Mode: TX high channel  
Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: Not labelled  
Engineer: Ahmad  
Date of Test: 10/5/98  
Initial: [Signature]

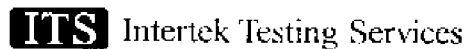
Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
8	8	12	0	0	12	
Model: EMCO 311	CDL P1000 Green	M+L	None	None	Test Distance	3 meters

Frequency MHz	Reading dB(μV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB
2776.7	44.0	P	H	28.1	28.4	2.3	0.0	46.0	74.0	-28.0
2776.7	38.0	A	H	28.1	28.4	2.3	0.0	40.0	74.0	-34.0
3703.0	50.0	P	V	31.3	27.8	2.7	0.0	50.2	74.0	-23.8
3703.0	44.0	A	V	31.3	27.8	2.7	0.0	50.2	74.0	-23.8
4629.0	47.0	P	V	32.1	28.0	3.2	0.0	54.3	74.0	-19.7
4629.0	43.0	A	V	32.1	28.0	3.2	0.0	50.3	74.0	-23.7
7406.0	45.0	P	V	35.3	28.0	4.3	0.0	57.0	74.0	-17.0
7406.0	35.0	A	V	35.3	28.0	4.3	0.0	47.6	74.0	-26.4
8332.1	42.0	P	V	36.9	27.2	4.6	0.0	54.5	74.0	-19.5
8332.1	35.0	A	V	36.9	27.2	4.6	0.0	46.5	74.0	-28.5

Notes: a) P: Peak, A: Average, Q: Quasi Peak, H: Horizontal, V: Vertical, OCF: Other Correction Factor, DF: Distance Factor  
b) Insert. Loss = Cable A + Cable B + OCF  
c) Negative signs (-) in Margin column signify levels below the limits  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Ver4/6/98



1365 Adams Court, Menlo Park CA 94025

## Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (handset)  
Project #: J98026020  
Test Mode: TX/low channel

Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: Not labelled  
Engineer: Ahmad  
Date of Test: 10/5/98 Initial:

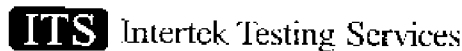
Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
B	B	12	0	0		
Model: EMCO 311	CDL P1000	Green M+L	None	None	Limit: 12	
					Test Distance: 3	meters

Frequency MHz	Reading dB(uV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(uV/m)	Limit @3m dB(uV/m)	Margin dB
2712.0	55.0	P	H	28.1	28.4	2.3	0.0	57.0	74.0	-17.0
2712.0	48.0	A	H	28.1	28.4	2.3	0.0	50.0	54.0	4.0
3616.8	51.0	P	H	31.5	27.8	2.7	0.0	57.4	74.0	-16.7
3616.8	42.0	A	H	31.5	27.8	2.7	0.0	48.4	54.0	5.6
4520.8	45.0	P	H	32.2	27.9	3.0	0.0	50.5	74.0	-23.5
4520.8	41.0	A	H	32.2	27.9	3.0	0.0	48.5	54.0	5.5
7233.0	40.0	P	H	35.5	28.0	4.5	0.0	52.1	74.0	-21.9
7233.0	35.1	A	H	35.5	28.0	4.5	0.0	48.2	54.0	5.8

**Notes:**  
a) P: Peak, A: Average, Q: Quasi-Peak, H: Horizontal, V: Vertical, OCF: Other Correction Factor, DF: Distance Factor  
b) Insert. Loss = Cable A + Cable B + OCF  
c) Negative signs (-) in Margin column signify levels below the limits  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits

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Ver-10/05/98



1365 Adams Court, Menlo Park, CA 94025

## Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (handset)  
Project #: J98026020  
Test Mode: TX/ Mid channel

Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: Not labeled  
Engineer: Ahmad  
Date of Test: 10/5/98 Initial:

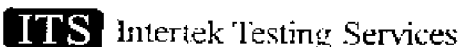
Antenna	Pre Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
8	8	12	0	0		
Number:					Limit:	12
Module:	EMCO 311	CDL P1000 Green M+L	None	None	Test Distance:	3 meters

Frequency MHz	Reading dB(uV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(uV/m)	Limit @3m dB(uV/m)	Margin dB
2743.6	52.0	P	H	28.1	28.4	2.3	0.0	54.0	74.0	20.0
2743.6	47.0	A	H	28.1	28.4	2.3	0.0	49.0	74.0	25.0
3657.0	49.0	P	V	31.3	27.8	2.7	0.0	55.2	74.0	18.8
3657.0	42.0	A	V	31.3	27.8	2.7	0.0	49.2	74.0	24.8
4571.9	48.0	P	H	32.2	27.9	3.2	0.0	59.5	74.0	14.5
4571.9	41.0	A	H	32.2	27.9	3.2	0.0	49.5	74.0	24.5
7310.0	42.0	P	H	35.5	26.0	4.0	0.0	54.1	74.0	19.9
7310.0	35.0	A	H	35.5	26.0	4.0	0.0	47.1	74.0	26.9

Notes: a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF: Other Correction Factor; DF: Distance Factor  
b) Insert. Loss = Cable A + Cable B + OCF  
c) Negative signa (-) in Margin column signify levels below the limits.  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Ver03.058



1365 Adams Court, Menlo Park CA 94025

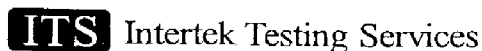
## Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (hand set)  
Project #: J98026020  
Test Mode: stand by  
Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: N/A  
Engineer: C. Kwan  
Date of Test: 09/30/98 Initial:

Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15B
Number: 1	7	13	0	0	Limits	2
Model: EMCO 314	CPPA 102	S2_3m	None	None	Test Distance	3 meters

Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Amp	Insert. Loss	D.F.	Net	Limit @3m	Margin
MHz	dB(μV)	P/A/Q	H/V	dB(1/m)	dB	dB	dB	dB(μV/m)	dB(μV/m)	dB
277.2	32.6	p	v	11.4	35.1	2.9	0.0	11.8	46.0	-34.2
419.2	31.7	p	v	15.1	34.9	4.3	0.0	16.2	46.0	-29.8
543.2	37.6	p	v	17.1	34.8	5.3	0.0	25.2	46.0	-20.8
628.2	31.2	p	v	18.0	35.2	5.9	0.0	19.9	46.0	-26.1
704.7	31.1	p	v	19.3	36.1	6.6	0.0	20.9	46.0	-25.1
790.2	38.5	p	v	19.7	36.1	7.2	0.0	29.3	46.0	-16.7
837.7	30.1	p	v	20.9	28.4	8.2	0.0	30.6	46.0	-15.2
866.2	30.3	p	v	20.3	27.5	8.7	0.0	31.8	46.0	-14.2

Notes: a) P: Peak, A: Average; Q: Quasi Peak H: Horizontal, V: Vertical, OCF: Other Correction Factor, DF: Distance Factor  
b) Insert Loss = Cable A + Cable B + OCF  
c) Negative signs (-) in Margin column signify levels below the limits.  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.



1365 Adams Court, Menlo Park CA 94025

## Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (base unit)  
Project #: J98026020  
Test Mode: stand by  
Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: N/A  
Engineer: C. Kwan  
Date of Test: 09/29/98 Initial:

Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15B
Number: 1	7	13	0	0	Limits	2
Model: EMCO 314	CPPA_102	S2_3m	None	None	Test Distance	3 meters

Frequency MHz	Reading dB(uV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(uV/m)	Limit @3m dB(uV/m)	Margin dB
144.2	30.5	p	v	8.2	35.3	2.1	0.0	5.5	43.5	-38.0
315.2	30.4	p	v	12.9	34.9	3.1	0.0	11.5	46.0	-34.5
486.2	30.4	p	v	16.4	35.0	5.0	0.0	16.9	46.0	-29.2
505.2	30.1	p	v	16.5	34.8	5.3	0.0	17.1	46.0	-28.9
657.2	30.5	p	v	18.4	35.2	6.3	0.0	20.1	46.0	-25.9
885.2	30.2	p	v	20.9	27.5	8.7	0.0	32.3	46.0	-13.7
904.2	31.0	p	v	21.0	29.1	8.3	0.0	31.3	46.0	-14.8
942.2	31.0	p	v	20.9	29.1	8.3	0.0	31.2	46.0	-14.9

- Notes:**
- a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF: Other Correction Factor; DF: Distance Factor
  - b) Insert. Loss = Cable A + Cable B + OCF.
  - c) Negative signs (-) in Margin column signify levels below the limits.
  - d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits



## ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

### Radiated Emissions Test Data

Company: Stanford  
EUT: 900 MHz cordless phone (base unit)  
Project #: J98026020  
Test Mode: stand by

Model #: IS-901 Digital Spread Spectrum  
S/N or FCC: N/A  
Engineer: C. Kwan  
Date of Test: 09/29/98 Initial:

Antenna	Pre Amp	Cable A	Cable B	OCF	Standard	FCC Part 15B
1	7	13	0	0		
EMCO 314	CPFA 102	\$2_3m	None	None	Limits	2
					Test Distance	3 meters

Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Jump	Insert. Loss	D. F.	Net	Limit @3m	Margin
MHz	dB(uV)	P/A/Q	H/V	dB(1/m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB
144.2	30.5	p	v	8.2	35.3	2.1	0.0	5.5	43.5	-38.0
315.2	30.4	p	v	12.9	34.9	3.1	0.0	11.5	46.0	-34.5
480.2	30.4	p	v	18.4	35.0	5.0	0.0	16.9	46.0	-29.2
505.2	30.1	p	v	15.5	34.8	5.3	0.0	17.1	46.0	-28.9
557.2	30.5	p	v	18.4	35.2	5.3	0.0	20.1	46.0	-25.9
885.2	30.2	p	v	20.9	27.5	8.7	0.0	32.3	46.0	-13.7
904.2	31.0	p	v	21.0	29.1	8.3	0.0	31.3	46.0	-14.8
942.2	31.0	p	v	20.9	29.1	8.3	0.0	31.2	46.0	-14.9

**Notes:**  
a) P, Peak; A, Average; Q, Quasi Peak; H, Horizontal; V, Vertical; OCF: Other Correction Factor; DF: Distance Factor  
b) Insert. Loss = Cable A + Cable B + OCF  
c) Negative signs (-) in Margin column signify levels below the limits.  
d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.