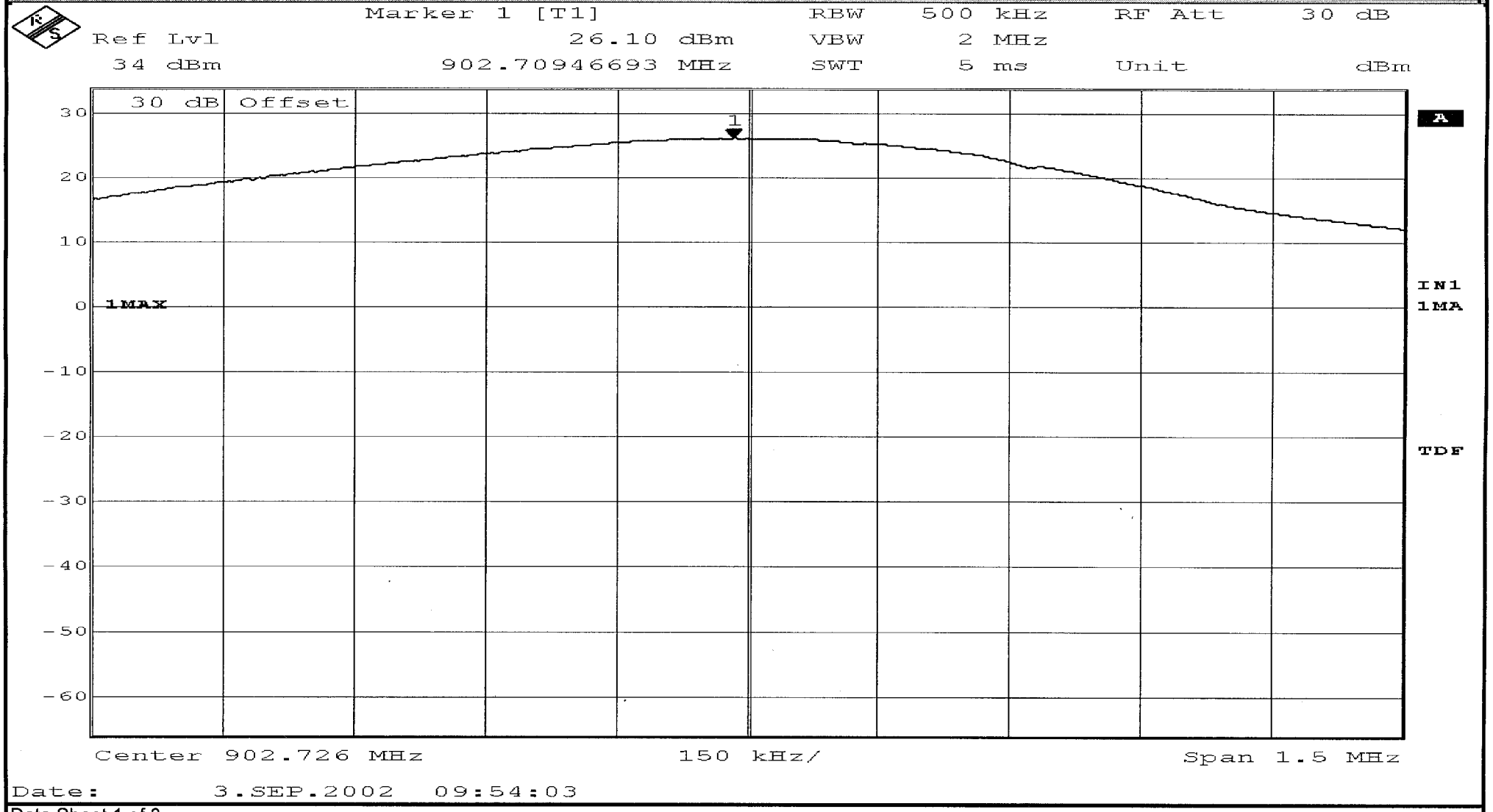
RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

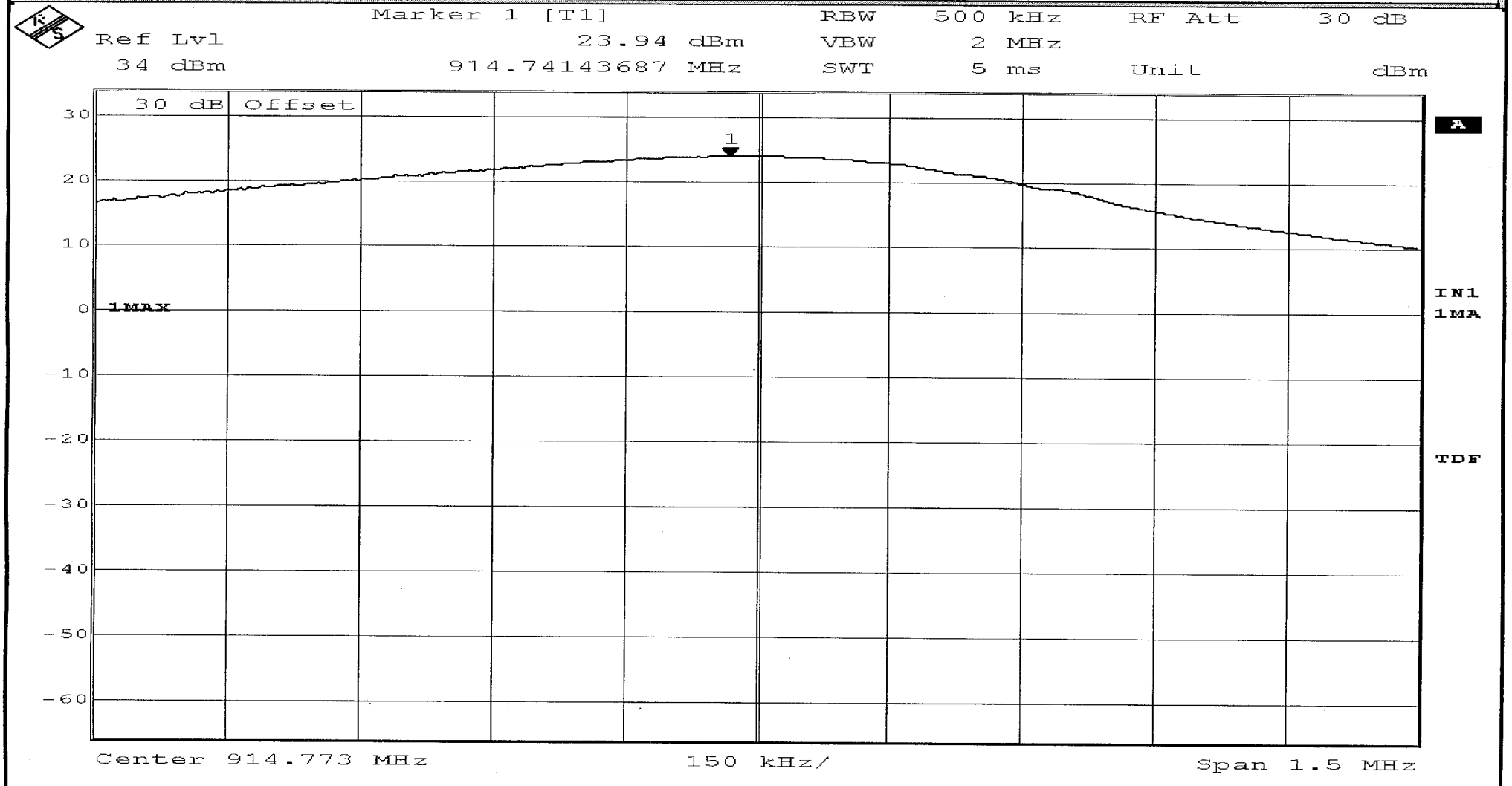
Test Method:	Peak Output Power				
Customer:	ThingMagic LLC	**Test Sample:**	RF ID Tag Reader	**Job No:**	R-4117N
Model No:	Mercury 2	**Serial No:**	ENG2	**Technician:**	T. Firkowski
Test Specification:	FCC Part 15, Subpart C	Paragraph: 15.247(b)		**Date:**	9/3/02
Operating Mode:	Transmitting a modulated signal				
Notes:	Frequency Tested: 902.726 MHz				



RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Peak Output Power				
Customer:	ThingMagic LLC	**Test Sample:**	RF ID Tag Reader	**Job No:**	R-4117N
Model No:	Mercury 2	**Serial No:**	ENG2	**Technician:**	T. Firkowski
Test Specification:	FCC Part 15, Subpart C	Paragraph: 15.247(b)		**Date:**	9/3/02
Operating Mode:	Transmitting a modulated signal				
Notes:	Frequency Tested: 914.773 MHz				



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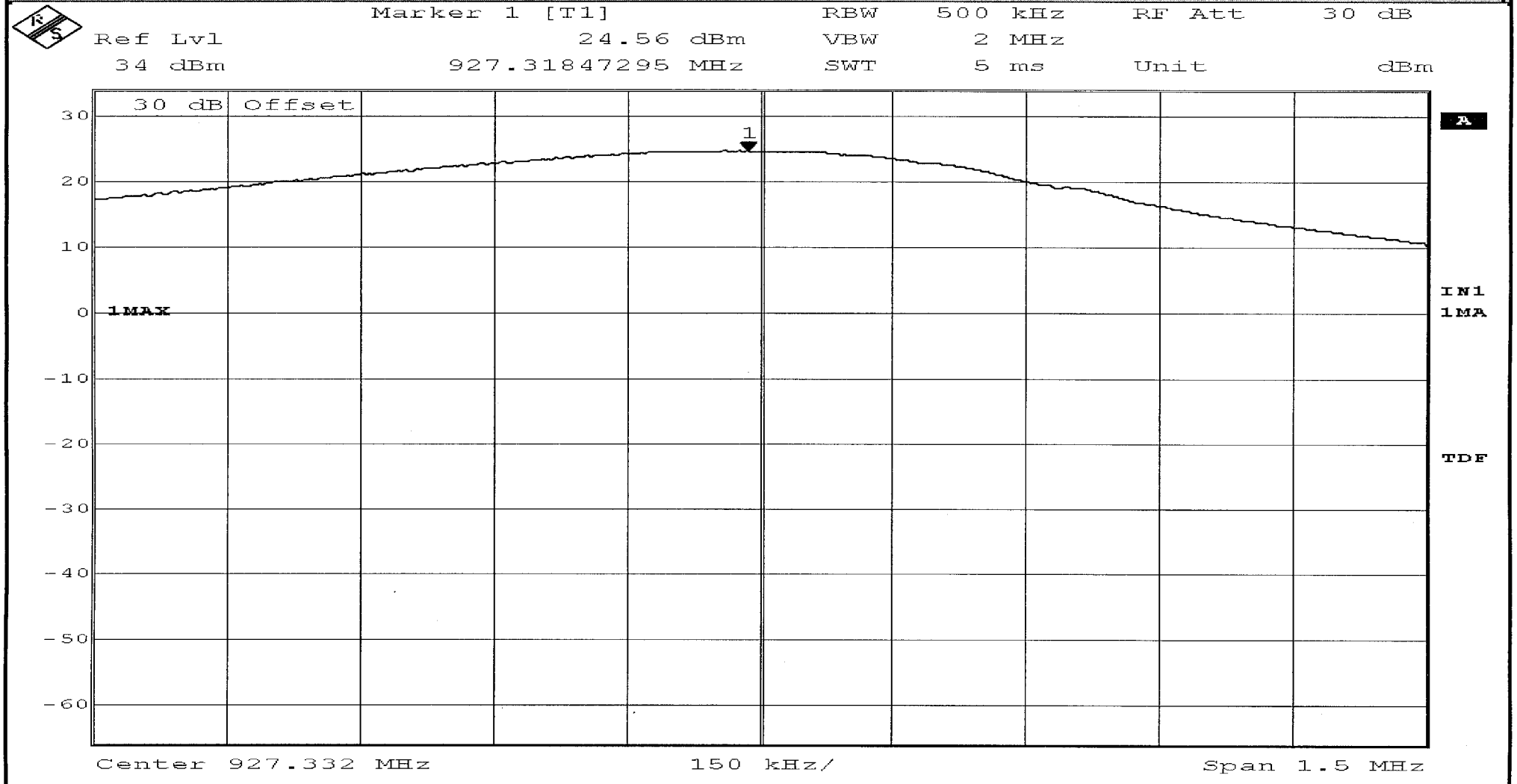
RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

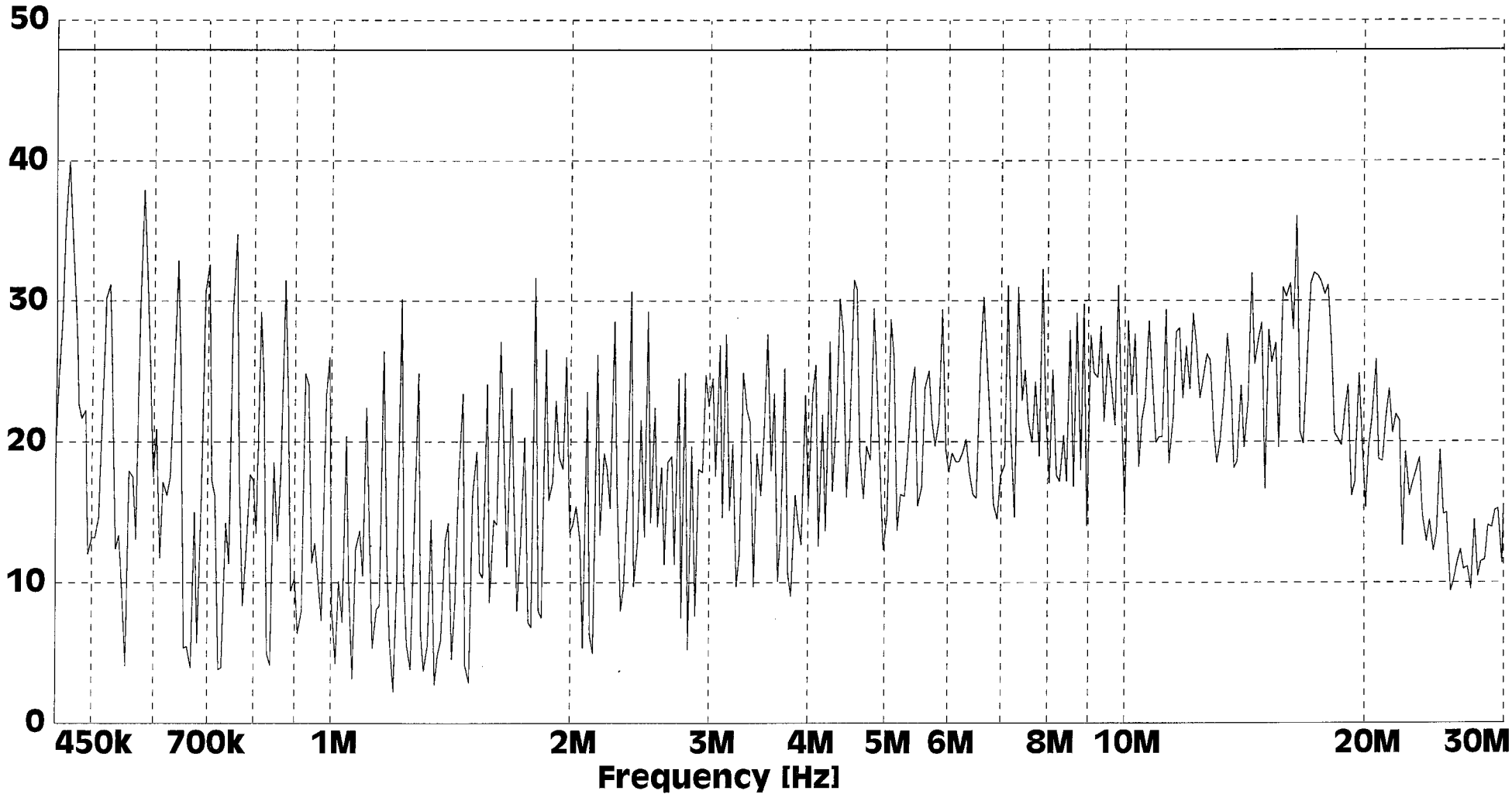
Test Method:	Peak Output Power				
Customer:	ThingMagic LLC	**Test Sample:**	RF ID Tag Reader	**Job No:**	R-4117N
Model No:	Mercury 2	**Serial No:**	ENG2	**Technician:**	T. Firkowski
Test Specification:	FCC Part 15, Subpart C	Paragraph: 15.247(b)		**Date:**	9/3/02
Operating Mode:	Transmitting a modulated signal				
Notes:	Frequency Tested: 927.322 MHz				



RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

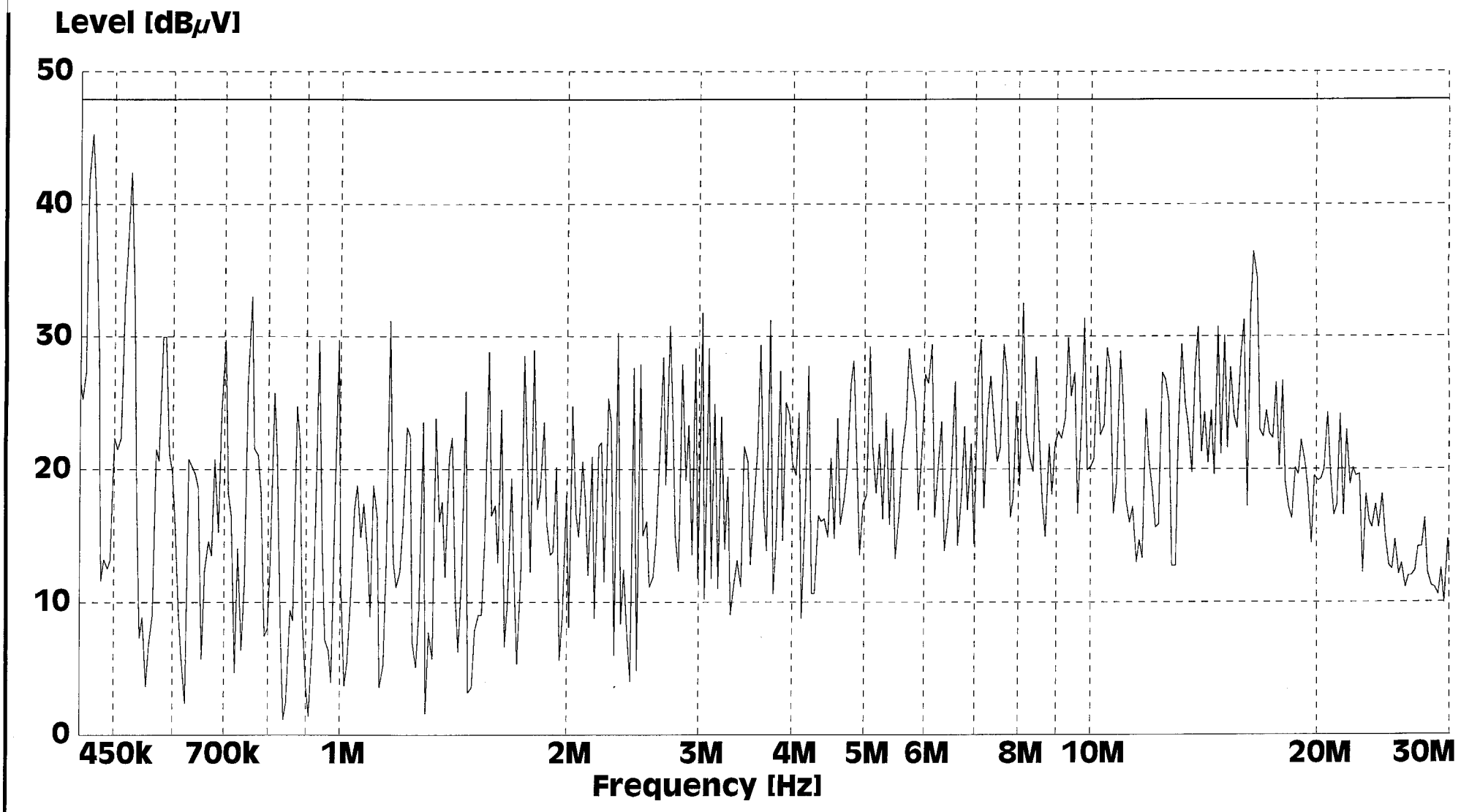
Test Method:	Conducted Emissions				
Customer:	ThingMagic LLC	Test Sample:	RF ID Tag Reader	Job No:	R-4117N
Model No:	Mercury 2	Serial No:	ENG1	Technician:	T. Firkowski
Test Specification:	FCC Part 15, Subpart C	Paragraph: 15.207(a)		Date:	8/21/02
Operating Mode:	Transmitting a modulated signal	Frequency Tested: Frequency Hopping 902.726-927.322 MHz			
Notes:	Lead Tested: Hot 120 VAC 60 Hz	Peak Readings to Quasi-Peak Limits			



RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Conducted Emissions				
Customer:	ThingMagic LLC	Test Sample:	RF ID Tag Reader	Job No:	R-4117N
Model No:	Mercury 2	Serial No:	ENG1	Technician:	T. Firkowski
Test Specification:	FCC Part 15, Subpart C	Paragraph: 15.207(a)		Date:	8/21/02
Operating Mode:	Transmitting a modulated signal	Frequency Tested: Frequency Hopping 902.726-927.322 MHz			
Notes:	Lead Tested: Neutral 120 VAC 60 Hz	Peak Readings to Quasi-Peak Limits			



RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	**Spurious Radiated Emissions**		
Customer:	ThingMagic LLC	**Job No:**	R-4117N
Test Sample:	RF ID Tag Reader		
Model No:	Mercury 2	**Serial No:**	ENG2
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247(c)		
Operating Mode:	Transmitting a CW signal		
Technician:	T. Firkowski	**Date:**	9/4/02
Notes:	RF ID Tag Reader tested with linear antenna Cushcraft # S9028P Detector: Peak RBW: 1MHz VBW 10 Hz		

Transmit Frequency	Test Frequency	Antenna Polarity	Uncorrected Reading	Correction Factor	Corrected Reading	Peak Limit		Duty Cycle Factor	Corrected + Duty Cycle Factor	Average Limit
MHz	GHz	H/V	dBuV	dB	dBuV/m	dBuV/m		dB	dBuV/m	dBuV/m
902.726										
	2.708178	Vertical	34.05	28.75	62.80	74.00		-16.47	46.33	54.0
	3.610904	Horizontal	28.74	31.76	60.50	I		-16.47	44.03	I
	4.513630	-	-	-	-	I		-	-	I
	5.416356	-	-	-	-	I		-	-	I
	8.124543	-	-	-	-	I		-	-	I
	9.027260	-	-	-	-	74.00		-	-	54.0
914.773										
	2.744319	Vertical	28.22	28.88	57.10	74.00		-16.47	40.63	54.0
	3.659092	Horizontal	33.58	31.91	65.48	I		-16.47	49.01	I
	4.573865	-	-	-	-	I		-	-	I
	7.318184	-	-	-	-	I		-	-	I
	8.232957	-	-	-	-	I		-	-	I
	9.147730	-	-	-	-	74.00		-	-	54.0
927.332										
	2.781996	Vertical	33.46	29.02	62.48	74.00		-16.47	46.01	54.0
	3.709328	Horizontal	28.15	32.07	60.22	I		-16.47	43.75	I
	4.636660	-	-	-	-	I		-	-	I
	7.418656	-	-	-	-	I		-	-	I
	8.345988	-	-	-	-	74.00		-	-	54.0

EUT Emissions observed during Spurious RF Conducted Emissions test that fall within restricted band were measured. "-" = Signal levels were lower than the noise floor of the receiver.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	**Spurious Radiated Emissions**		
Customer:	ThingMagic LLC	**Job No:**	R-4117N
Test Sample:	RF ID Tag Reader		
Model No:	Mercury 2	**Serial No:**	ENG2
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247(c)		
Operating Mode:	Transmitting a CW signal		
Technician:	T. Firkowski	**Date:**	9/4/02
Notes:	RF ID Tag Reader tested with Circular antenna Cushcraft # S9028PC Detector: Peak RBW: 1MHz VBW 10 Hz		

Transmit Frequency	Test Frequency	Antenna Polarity	Uncorrected Reading	Correction Factor	Corrected Reading	Peak Limit		Duty Cycle Factor	Corrected Reading	Limit
MHz	GHz	H/V	dBuV	dB	dBuV/m	dBuV/m		dB	dBuV/m	dBuV/m
902.726										
	2.708178	Vertical	25.71	28.75	54.46	74.00		-16.47	37.99	54.0
	3.610904	Vertical	31.31	31.76	63.07	I		-16.47	46.60	I
	4.513630	-	-	-	-	I		-	-	I
	5.416356	-	-	-	-	I		-	-	I
	8.124543	-	-	-	-	I		-	-	I
	9.027260	-	-	-	-	74.00		-	-	54.0
914.773										
	2.744319	Vertical	25.82	28.88	54.70	74.00		-16.47	38.23	54.0
	3.659092	Vertical	33.72	31.91	65.63	I		-16.47	49.16	I
	4.573865	-	-	-	-	I		-	-	I
	7.318184	-	-	-	-	I		-	-	I
	8.232957	-	-	-	-	I		-	-	I
	9.147730	-	-	-	-	74.00		-	-	54.0
927.332										
	2.781996	Vertical	33.22	29.02	62.24	74.00		-16.47	45.77	54.0
	3.709328	Vertical	27.16	32.07	59.23	I		-16.47	42.76	I
	4.636660	-	-	-	-	I		-	-	I
	7.418656	-	-	-	-	I		-	-	I
	8.345988	-	-	-	-	74.00		-	-	54.0

EUT Emissions observed during Spurious RF Conducted Emissions test that fall within restricted band were measured. "-" = Signal levels were lower than the noise floor of the receiver.