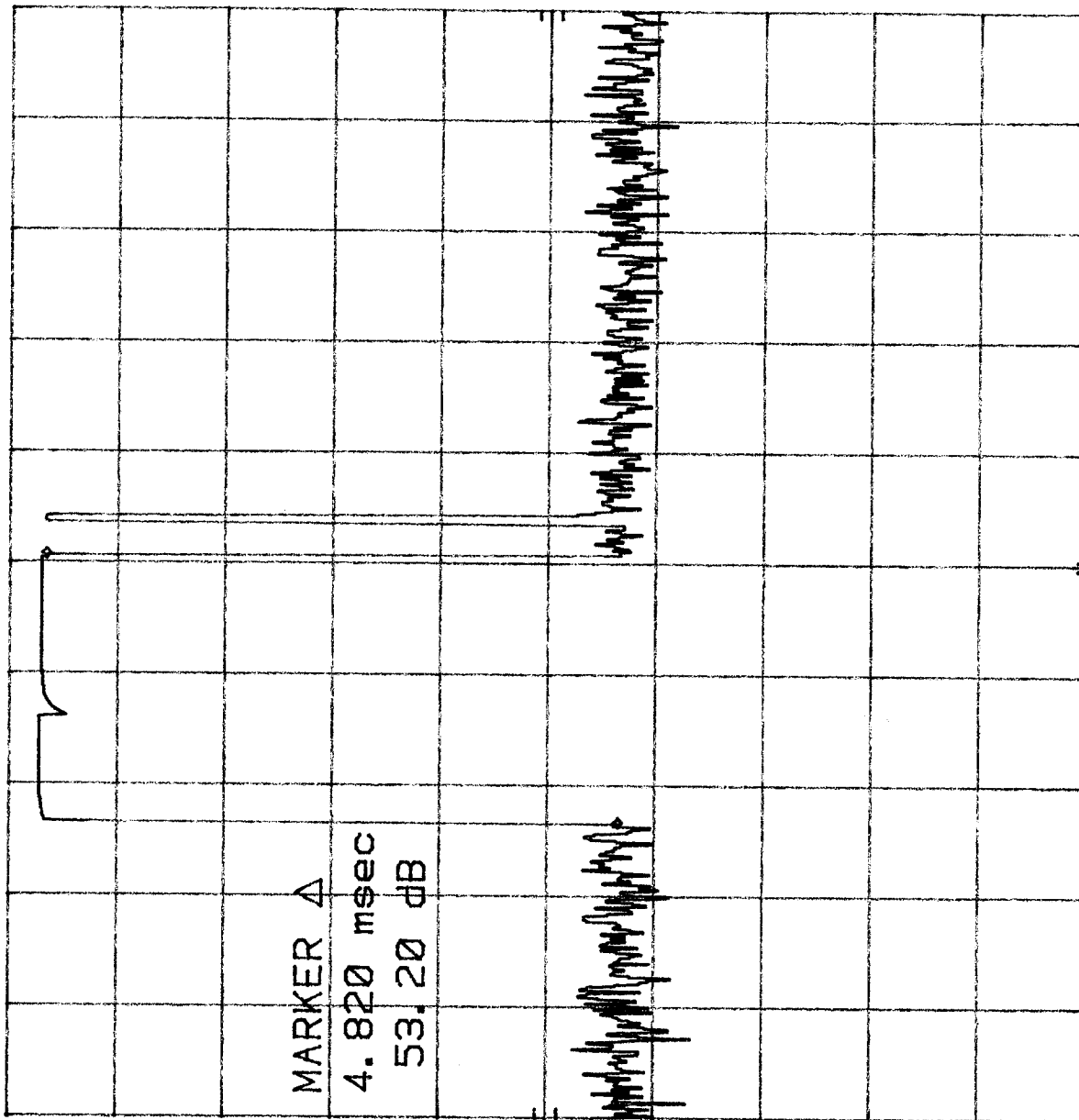


R-9611-1 Techsonic 15.35 DCD 9/24/02 PL MKR Δ 4.820 msec
 REF 75.0 dB μ V ATTEN 0 dB 53.20 dB

hp

10 dB/



CENTER 916.506 000 MHz RES BW 100 kHz VBW 300 kHz SPAN 0 Hz SWP 20.0 msec

Customer:	Techsonic Industries Incorporated		
Test Sample:	916.5MHz Pulsed Transmitter		
Model No.:	N/A		
Test Method:	15.35 Duty Cycle Determination		
Notes:	Large Pulse = 4.82mseconds		
Date:	Sept. 24, 2002	Tech:	Peter Lananna
Sheet	1	of	3



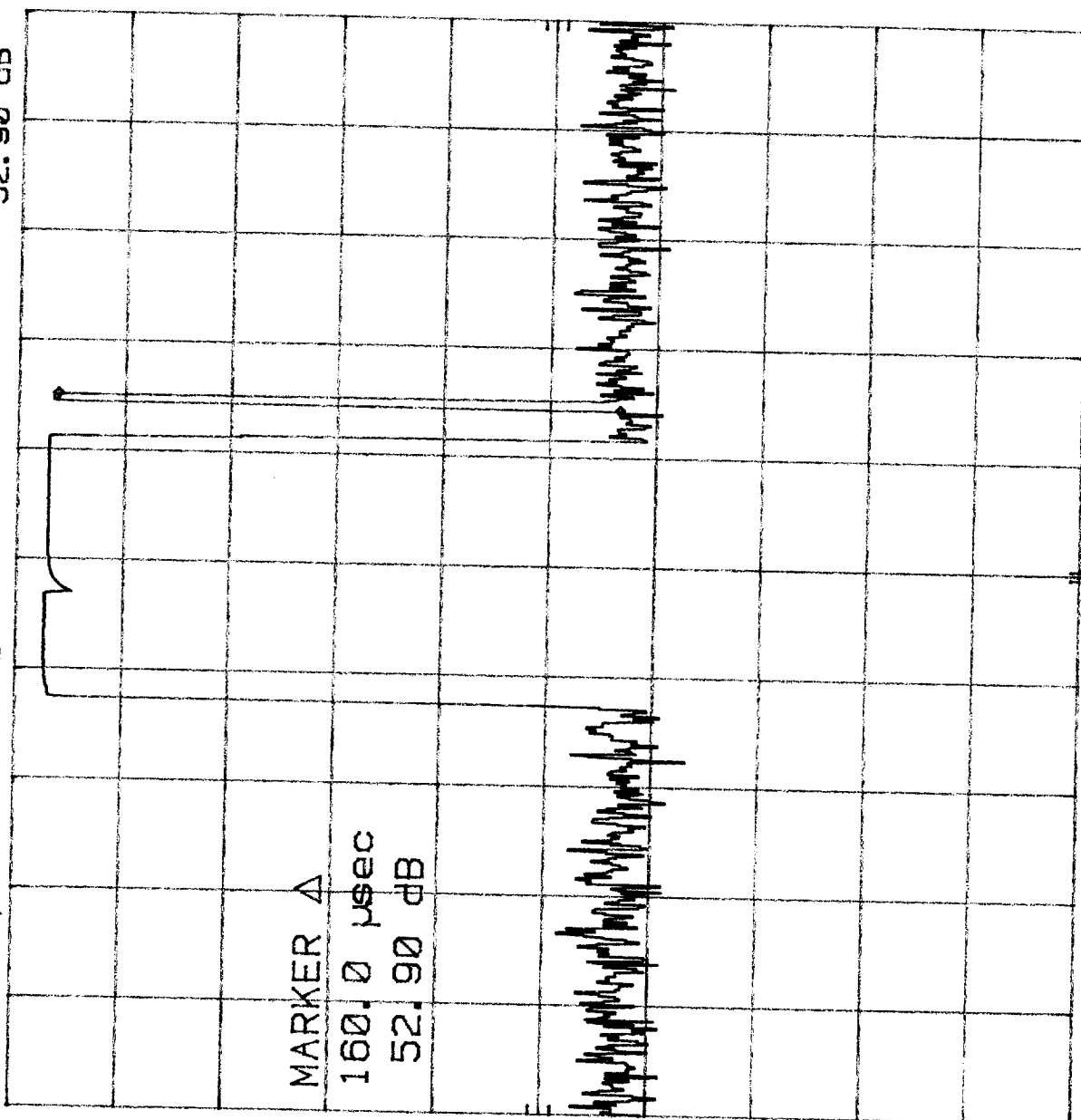
Retlif Testing Laboratories

Report No. R-9611-1

R-9611-1 Techsonic 15.35 DCD 9/24/02 PL MKR Δ 160.0 μ sec
 REF 75.0 dB μ V ATTN 0 dB 52.90 dB

hp

10 dB/



CENTER 916.506 000 MHz SPAN 0 Hz
 RES BW 100 kHz SWP 20.0 msec
 VBW 300 kHz

Customer:	Techsonic Industries Incorporated
Test Sample:	916.5MHz Pulsed Transmitter
Model No.:	N/A
Test Method:	15.35 Duty Cycle Determination
Notes:	Small Pulse = 160μseconds
Date:	Sept. 24, 2002
Tech:	Peter Lananna
Sheet	2 of 3



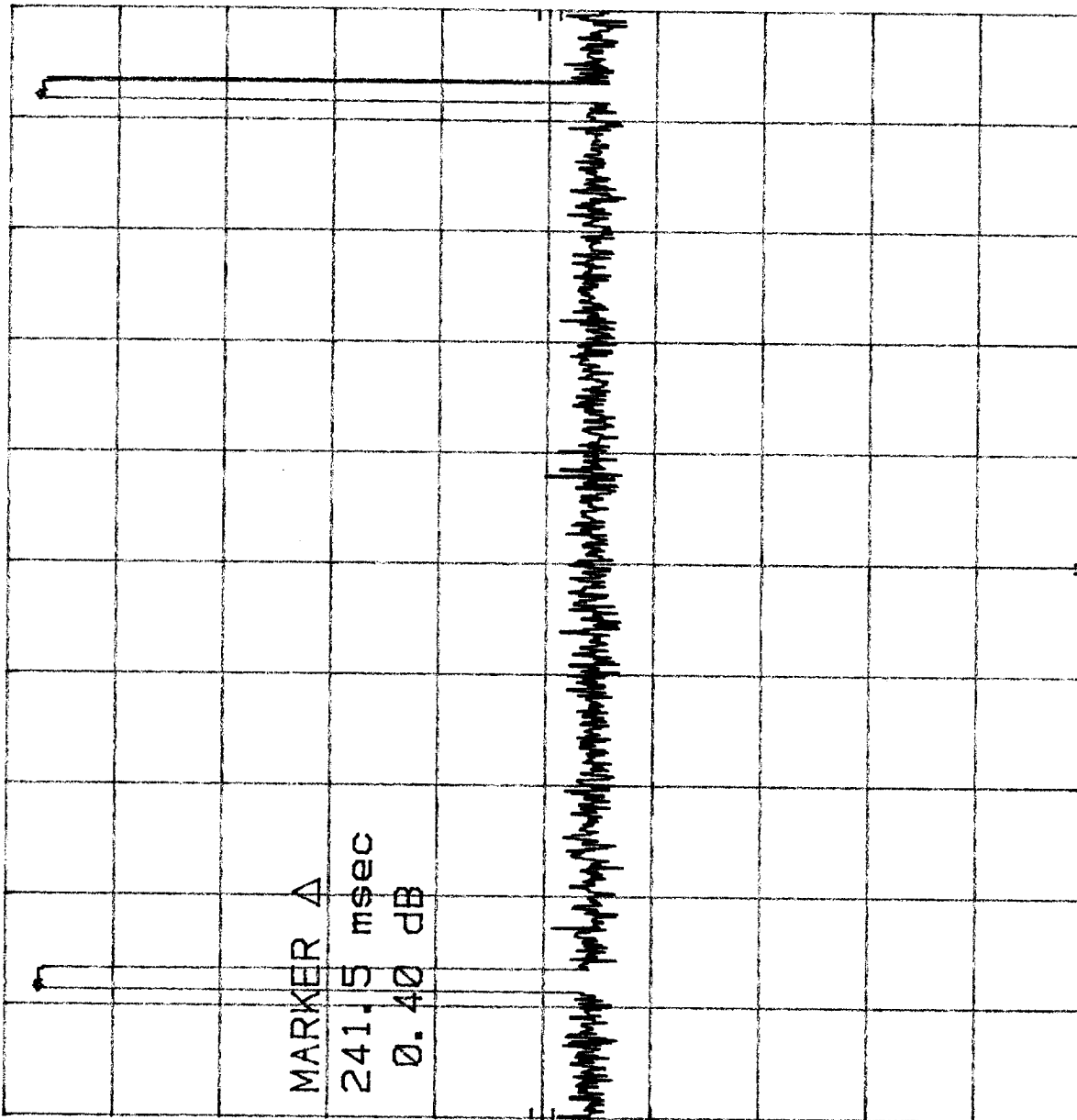
Retlif Testing Laboratories

Report No. R-9611-1

R-9611-1 Techsonic 15.35 DCD 9/24/02 PL MKR Δ 241.5 msec
 REF 75.0 dB μ V ATTN 0 dB

hp

10 dB/



CENTER 916.506 000 MHz RES BW 100 kHz
 VBW 300 kHz SWP 300 msec SPAN 0 Hz

Customer:	Techsonic Industries Incorporated		
Test Sample:	916.5MHz Pulsed Transmitter		
Model No.:	N/A		
Test Method:	15.35 Duty Cycle Determination		
Notes:	Cycle Time = 241.5msec Transmitter On Time = 4.82m + 160 μ = 4.98msec Duty Cycle = $20 \log (4.98m / 100) = -26dB$		
Date:	Sept. 24, 2002	Tech:	Peter Lananna
		Sheet	3 of 3



Retlif Testing Laboratories

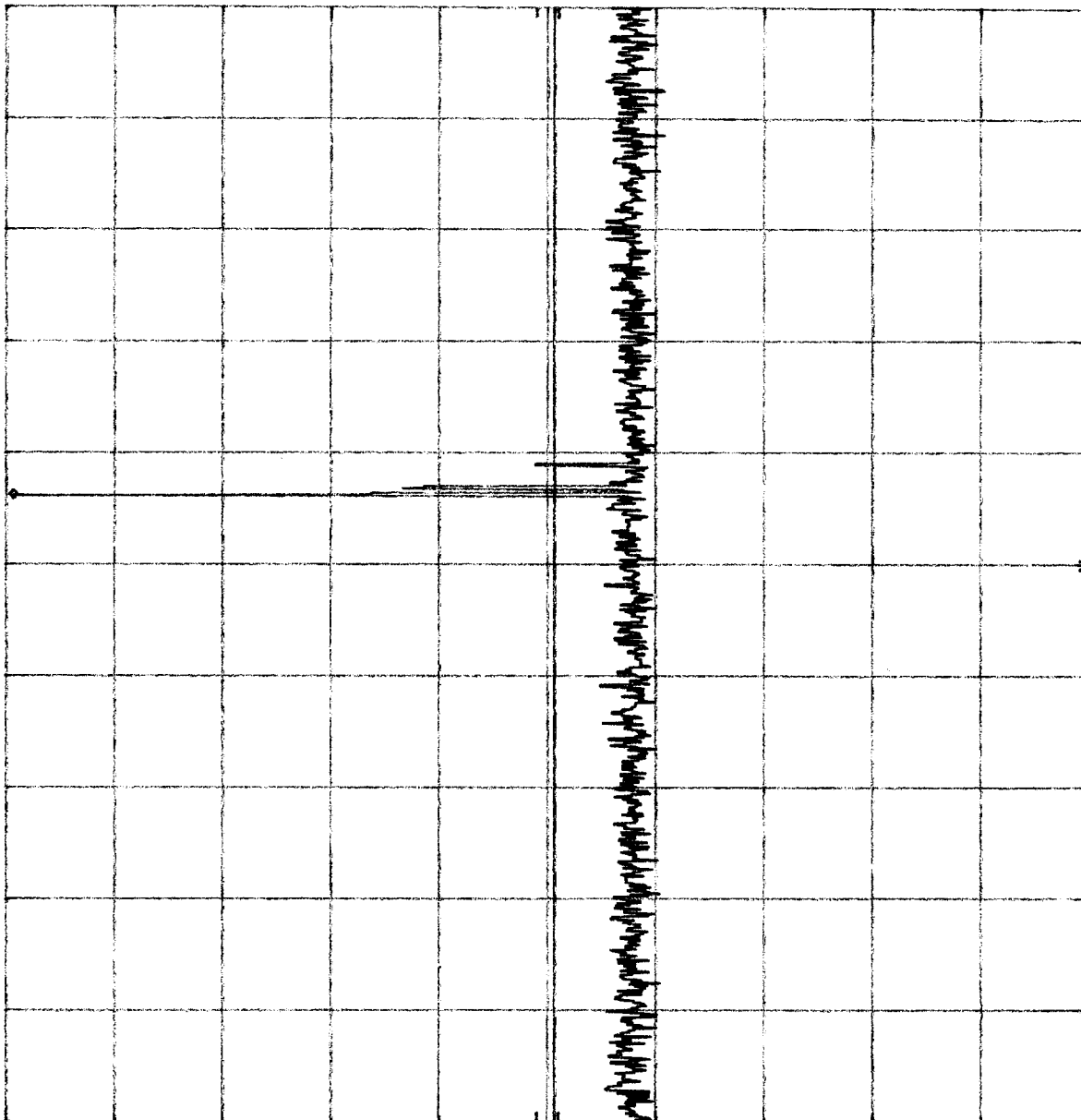
Report No. R-9611-1

R-9611-1 Techsonic 15.249(c) Dcc.Bw. 9/24/02MKR 916.61 MHz
 REF 75.0 dBμV ATTEN 10 dB

hp

10 dB/

DL
 24.3
 dBμV



STOP 928.0 MHz
 SWP 780 msec

VBW 30 KHz

START 902.0 MHz
 RES BW 10 KHz

Customer:	Techsonic Industries Incorporated		
Test Sample:	916.5MHz Pulsed Transmitter		
Model No.:	N/A		
Test Method:	15.249 (c) Occupied Bandwidth		
Notes:	Emissions radiating at the band edges are attenuated by 50 dB(c).		
Date:	Sept. 24, 2002	Tech:	Peter Lananna
Sheet	1	of	1



Retlif Testing Laboratories

Report No. R-9611-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	Techsonic Industries Incorporated				Job No.	R-9611-1	
Test Sample:	916.5 MHz Pulsed Transmitter				Paragraph:	15.249	
Model No.:	N/A				FCC ID:	N/A	
Operating Mode:	Continuously transmitting a pulsed 916.5MHz signal.						
Technician:	Peter Lananna				Date:	September 24, 2002	
Notes:	Test Distance: 3 Meters Detector: Peak, Unless otherwise specified						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
916.5	H / 1.0	X	43	18.4	61.4	1174.9	50000QP
	H / 1.0	Y	47	18.4	65.4	1862.1	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	57	18.4	75.4	5888.4	
	V / 1.0	Y	57	18.4	75.4	5888.4	
916.5	V / NA	Z	-----	-----	-----	-----	50000QP
1833.0	H / 1.0	X	42.8	4.2	47.0	223.9	500
	H / 1.0	Y	42.8	4.2	47.0	223.9	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	42.8	4.2	47.0	223.9	
	V / 1.0	Y	42.8	4.2	47.0	223.9	
1833.0	V / NA	Z	-----	-----	-----	-----	500
2749.5	H / 1.0	X	37.2	6.2	43.4	147.9	500
	H / 1.0	Y	37.2	6.2	43.4	147.9	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	37.2	6.2	43.4	147.9	
	V / 1.0	Y	37.2	6.2	43.4	147.9	
2749.5	V / NA	Z	-----	-----	-----	-----	500
3666.0	H / 1.0	X	36.3	8.8	45.1	179.9	500
	H / 1.0	Y	36.3	8.8	45.1	179.9	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	36.3	8.8	45.1	179.9	
	V / 1.0	Y	36.3	8.8	45.1	179.9	
3666.0	V / NA	Z	-----	-----	-----	-----	500
4582.5	H / 1.0	X	36.7	11.7	48.4	263.0	500
	H / 1.0	Y	36.7	11.7	48.4	263.0	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	36.7	11.7	48.4	263.0	
	V / 1.0	Y	36.7	11.7	48.4	263.0	
4582.5	V / NA	Z	-----	-----	-----	-----	500
	The frequency range was scanned from 30 MHz to 9.2 GHz. All emissions not recorded were more Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



Retlif Testing Laboratories

Retlif Job Number R-9611-1

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions					
Customer:		Techsonic Industries Incorporated			Job No.		R-9611-1
Test Sample:		916.5 MHz Pulsed Transmitter			Paragraph:		15.249
Model No.:		N/A			FCC ID:		N/A
Operating Mode:		Continuously transmitting a pulsed 916.5MHz signal.					
Technician:		Peter Lananna			Date:		September 24, 2002
Notes:		Test Distance: 3 Meters Detector: Peak, unless otherwise specified					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
5499.0	H / 1.0	X	36.0	13.7	49.7	305.5	500
	H / 1.0	Y	36.0	13.7	49.7	305.5	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	36.0	13.7	49.7	305.5	
	V / 1.0	Y	36.0	13.7	49.7	305.5	
5499.0	V / NA	Z	-----	-----	-----	-----	500
6415.5	H / 1.0	X	41.4	11.1	52.5	421.7	500
	H / 1.0	Y	41.4	11.1	52.5	421.7	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	41.4	11.1	52.5	421.7	
	V / 1.0	Y	41.4	11.1	52.5	421.7	
6415.5	V / NA	Z	-----	-----	-----	-----	500
7332.0	H / 1.0	X	42.4	9.6	52.0	398.1	500
	H / 1.0	Y	42.4	9.6	52.0	398.1	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	42.4	9.6	52.0	398.1	
	V / 1.0	Y	42.4	9.6	52.0	398.1	
7332.0	V / NA	Z	-----	-----	-----	-----	500
8248.5	H / 1.0	X	42.8	10.9	53.7	484.2	500
	H / 1.0	Y	42.8	10.9	53.7	484.2	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	42.8	10.9	53.7	484.2	
	V / 1.0	Y	42.8	10.9	53.7	484.2	
8248.5	V / NA	Z	-----	-----	-----	-----	500
9165.0	H / 1.0	X	41.0	12.6	53.6	478.6	500
	H / 1.0	Y	41.0	12.6	53.6	478.6	
	H / NA	Z	-----	-----	-----	-----	
	V / 1.0	X	41.0	12.6	53.6	478.6	
	V / 1.0	Y	41.0	12.6	53.6	478.6	
9165.0	V / NA	Z	-----	-----	-----	-----	500
The frequency range was scanned from 30 MHz to 9.2 GHz. All emissions not recorded were more Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
*=Noise Floor Measurements (Minimum system sensitivity)							



Retlif Testing Laboratories

Retlif Job Number R-9611-1

