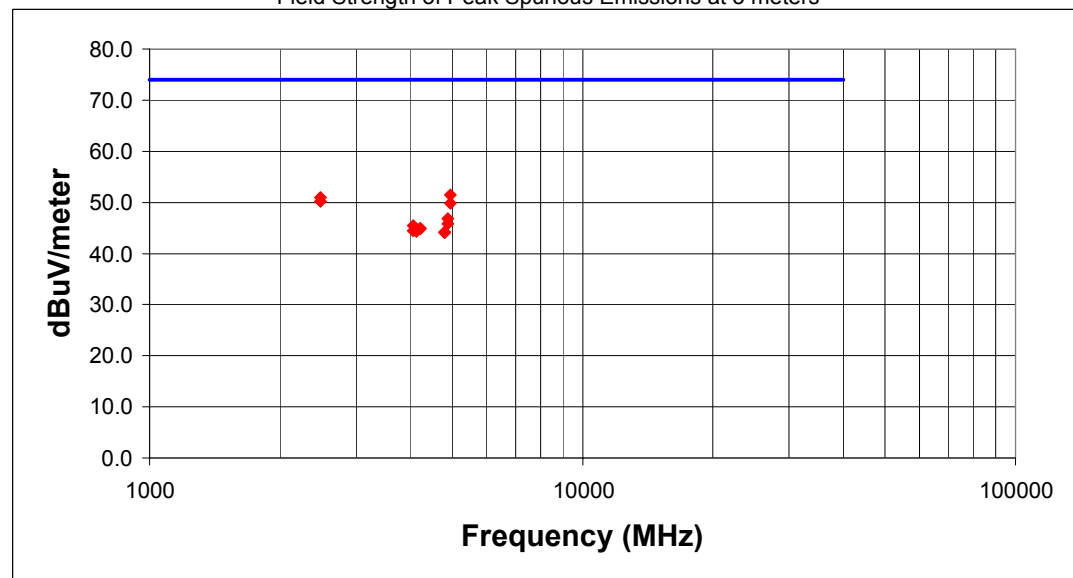


EXHIBIT P – Radiated Spurious Emissions

FCC ID# PGU3021-100

NORTHWEST		EMC		Radiated and Conducted Emissions		Rev 4.10 07/06/01	
EUT: Propaq G Series Wireless Option				Work Order: PROT0166			
Serial Number:				Date: 09/04/01			
Customer: Welch Allyn Protocol, Inc				Temperature: 22			
Attendees: N/A				Humidity: 42%			
Customer Ref. No.: N/A				Job Site: EV01			
Tester: Rod Peloquin				Power: N/A			
TEST SPECIFICATIONS							
Specification: FCC 15.247		Year: 2000		Method: ANSI C63.4		Year: 1992	
SAMPLE CALCULATIONS							
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Attenuation Factor - Amplifier Gain							
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator							
COMMENTS							
No hop							
EUT OPERATING MODES							
See Comments							
DEVIATIONS FROM TEST STANDARD							
None							
RESULTS		DISTANCE (m)		LINE		RUN	
PASS		3					
OTHER		 Tested By					

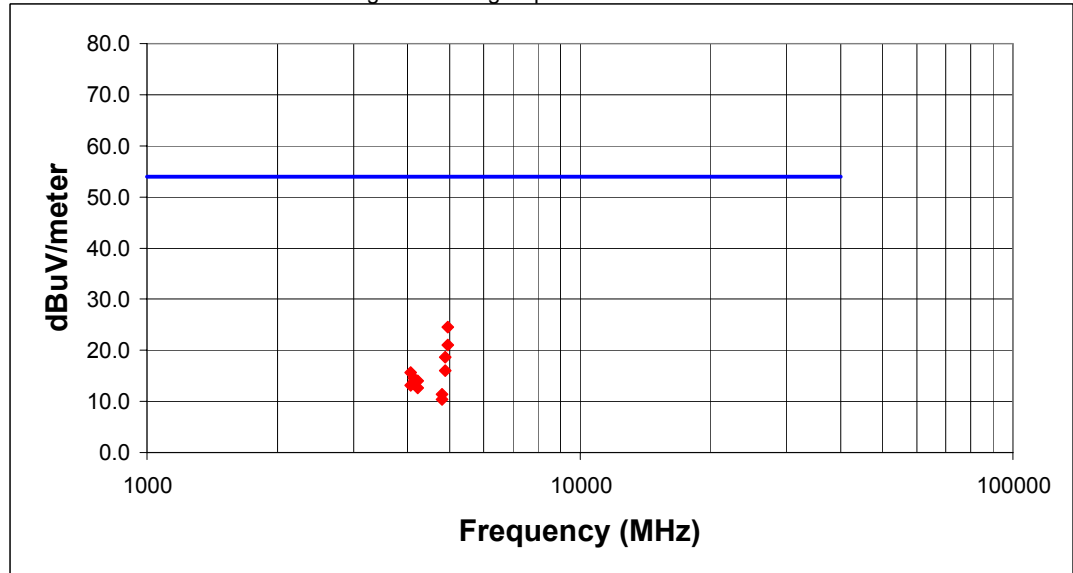
Field Strength of Peak Spurious Emissions at 3 meters



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2480.000	87.3	PK	30.6	HHRN	0.0	2.6	271.0	2.3	120.5	N/A	N/A	Fundamental emission
2480.000	76.0	PK	30.6	VHRN	0.0	2.6	244.0	1.2	109.2	N/A	N/A	Fundamental emission
2483.865	N/A	PK	N/A	HHRN	N/A	N/A	271.0	2.3	51.0	74.0	-23.0	High frequency. Marker-Delta method used to calculate Adjusted Level. Adjusted Level = 120.5 dBuV/m - 69.5 dB
2483.570	N/A	PK	N/A	VHRN	N/A	N/A	244.0	1.2	50.2	74.0	-23.8	High frequency. Marker-Delta method used to calculate Adjusted Level. Adjusted Level = 109.2 dBuV/m - 59 dB
4062.000	40.5	PK	34.4	VHRN	34.3	3.9	265.0	1.2	44.5	74.0	-29.6	Low frequency
4062.000	41.5	PK	34.4	HHRN	34.3	3.9	58.0	1.0	45.5	74.0	-28.5	Low frequency
4138.000	40.7	PK	34.3	VHRN	34.3	4.0	266.0	1.3	44.7	74.0	-29.4	Mid frequency
4138.000	40.3	PK	34.3	HHRN	34.3	4.0	64.0	1.0	44.3	74.0	-29.7	Mid frequency
4218.000	40.9	PK	34.2	HHRN	34.3	4.0	82.0	1.9	44.8	74.0	-29.3	High frequency
4218.000	41.0	PK	34.2	VHRN	34.3	4.0	161.0	1.6	44.9	74.0	-29.1	High frequency
4804.000	39.5	PK	34.6	HHRN	34.3	4.4	360.0	1.4	44.2	74.0	-29.9	Low frequency
4804.000	39.4	PK	34.6	VHRN	34.3	4.4	43.0	1.3	44.1	74.0	-29.9	Low frequency
4880.000	41.0	PK	34.8	VHRN	34.3	4.4	248.0	1.0	45.9	74.0	-28.2	Mid frequency
4880.000	41.9	PK	34.8	HHRN	34.3	4.4	66.0	1.1	46.8	74.0	-27.2	Mid frequency
4960.000	44.6	PK	35.0	VHRN	34.3	4.5	279.0	1.6	49.8	74.0	-24.2	High frequency
4960.000	46.2	PK	35.0	HHRN	34.3	4.5	321.0	1.4	51.4	74.0	-22.6	High frequency

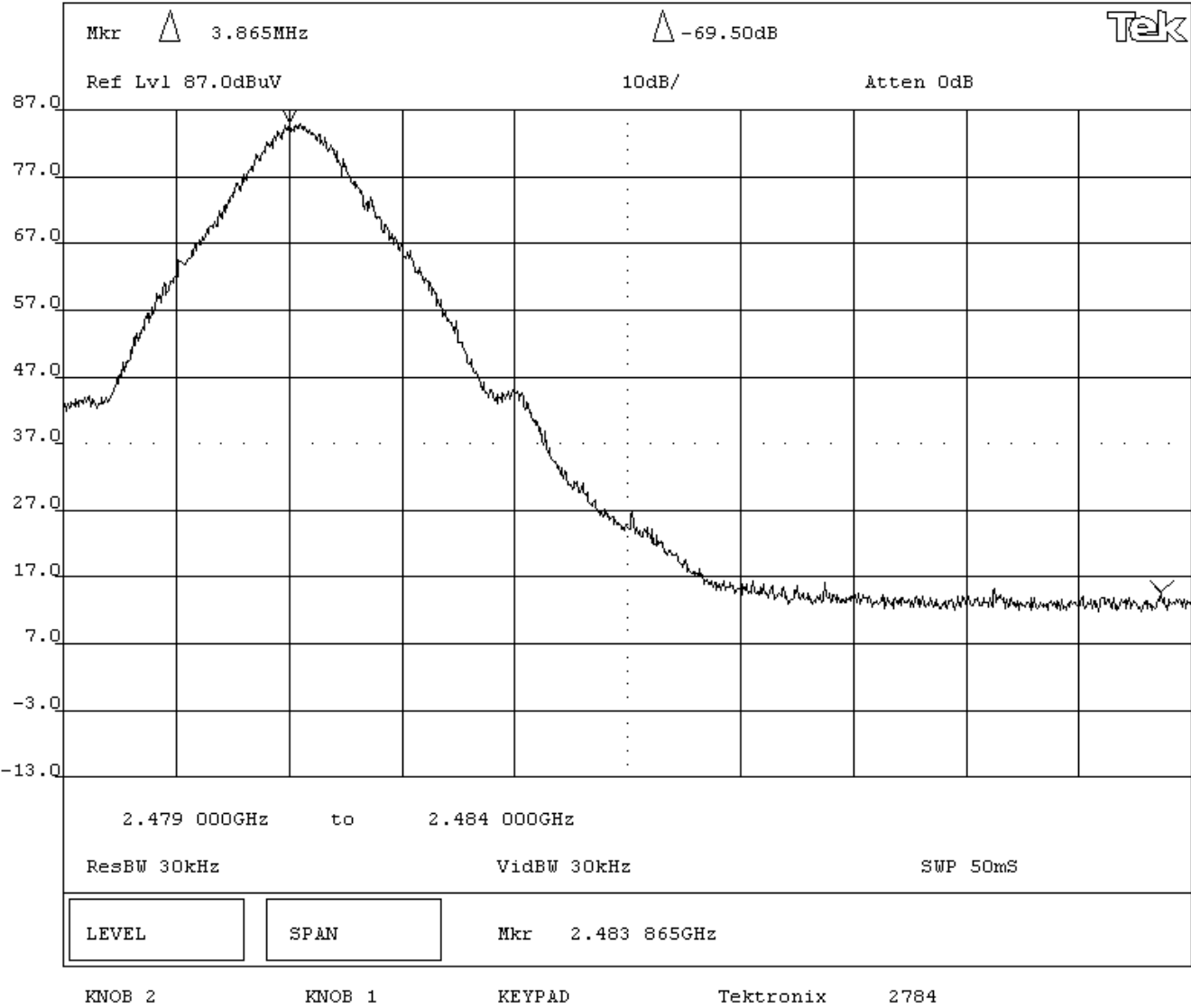
NORTHWEST EMC		Radiated and Conducted Emissions		Rev 4.10 07/06/01	
EUT: Propaq G Series Wireless Option		Work Order: PROT0166			
Serial Number:		Date: 09/04/01			
Customer: Welch Allyn Protocol, Inc		Temperature: 22			
Attendees: N/A		Tester: Rod Peloquin		Humidity: 42%	
Customer Ref. No.: N/A		Power: N/A		Job Site: EV01	
TEST SPECIFICATIONS					
Specification: FCC 15.247		Year: 2000		Method: ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Attenuation Factor - Amplifier Gain					
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator					
COMMENTS					
No hop, EUT antenna horizontal. Average measurements reflect application of the -20dB dwell time duty cycle correction factor.					
EUT OPERATING MODES					
See Comments					
DEVIATIONS FROM TEST STANDARD					
None					
RESULTS		DISTANCE (m)		LINE	
PASS		3			
OTHER		 Tested By			

Field Strength of Average Spurious Emissions at 3 meters



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamplifier Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2480.000	66.9	AV	30.6	HHRN	0.0	2.6	271.0	2.3	100.1	N/A	N/A	Fundamental emission
2480.000	55.4	AV	30.6	VHRN	0.0	2.6	244.0	1.2	88.6	N/A	N/A	Fundamental emission
2483.865	N/A	AV	N/A	HHRN	N/A	N/A	271.0	2.3	30.6	54.0	-23.4	High frequency. Marker-Delta method used to calculate Adjusted Level. Adjusted level = 100.1 dBuV/m - 69.5 dB
2483.570	N/A	AV	N/A	VHRN	N/A	N/A	244.0	1.2	29.6	54.0	-24.4	High frequency. Marker-Delta method used to calculate Adjusted Level. Adjusted level = 88.6 dBuV/m - 59 dB
4062.000	9.1	AV	34.4	VHRN	34.3	3.9	265.0	1.1	13.1	54.0	-40.9	Low frequency
4062.000	11.6	AV	34.4	HHRN	34.3	3.9	58.0	1.0	15.6	54.0	-38.4	Low frequency
4138.000	9.9	AV	34.3	VHRN	34.3	4.0	266.0	1.0	13.9	54.0	-40.1	Mid frequency
4138.000	10.5	AV	34.3	HHRN	34.3	4.0	64.0	1.0	14.5	54.0	-39.5	Mid frequency
4218.000	10.1	AV	34.2	VHRN	34.3	4.0	161.0	1.6	14.0	54.0	-40.0	High frequency
4218.000	8.7	AV	34.2	HHRN	34.3	4.0	82.0	1.9	12.6	54.0	-41.4	High frequency
4804.000	5.7	AV	34.6	VHRN	34.3	4.4	43.0	1.3	10.4	54.0	-43.6	Low frequency
4804.000	6.7	AV	34.6	HHRN	34.3	4.4	0.0	1.4	11.4	54.0	-42.6	Low frequency
4880.000	11.1	AV	34.8	VHRN	34.3	4.4	248.0	1.0	16.0	54.0	-38.0	Mid frequency
4880.000	13.8	AV	34.8	HHRN	34.3	4.4	66.0	1.1	18.7	54.0	-35.3	Mid frequency
4960.000	15.8	AV	35.0	VHRN	34.3	4.5	279.0	1.6	21.0	54.0	-33.0	High frequency
4960.000	19.4	AV	35.0	HHRN	34.3	4.5	321.0	1.4	24.6	54.0	-29.4	High frequency

Band Edge compliance, Marker-Delta Method. Horizontal receive antenna



Band Edge compliance, Marker-Delta Method. Vertical receive antenna

