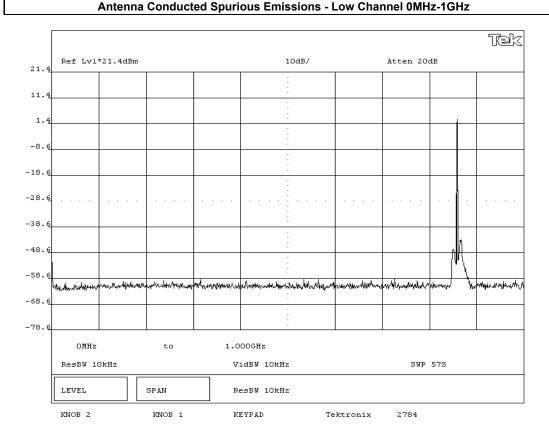
EXHIBIT P – Spurious RF Conducted Emissions

FCC ID# PURRFU7

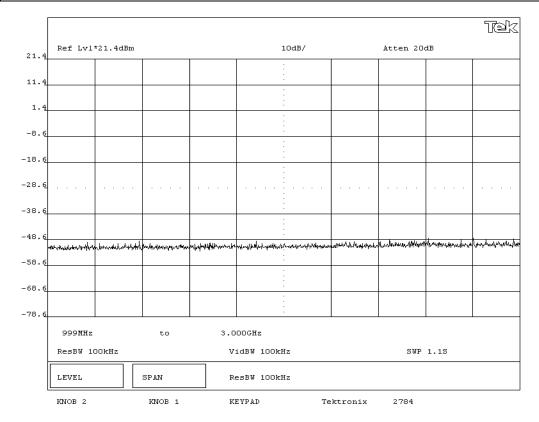
Spurious RF Conducted Emissions

Output Power Set to +11 dBm

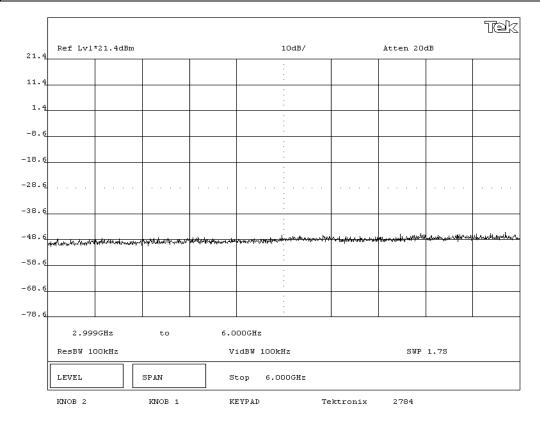
NORTHWEST EMC	EMISSIONS	DATA SHEET		Rev BETA 01/30/01		
EUT: iDEN Radio			Work Order: RAFI	10007		
Serial Number: 148			Date:	08/22/01		
Customer: RadioFrame Networks			Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	it +11.4 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attenant RESULTS	uted below the specified emission	mask.				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Low Channel 0MHz-1GHz						



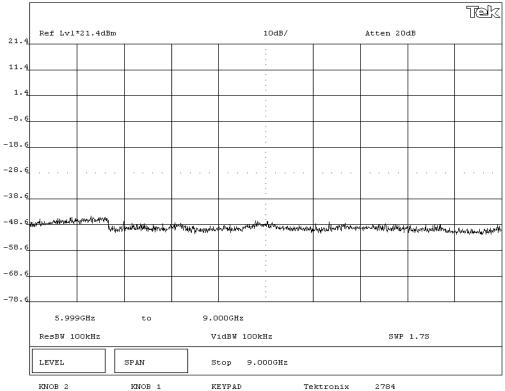
		EMISSIONS	DATA SHEET		Rev BETA		
EMC		Eineerene	BRINGHEET		01/30/01		
-	iDEN Radio			Work Order: RAFI			
Serial Number					08/22/01		
	RadioFrame Networks			Temperature:			
	Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION							
	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATI	ONS						
COMMENTS							
EUT OPERATING MOI							
	I. Max Output powered measured a	at +11.4 dBm					
DEVIATIONS FROM T	EST STANDARD						
None							
REQUIREMENTS							
	spurious emission must be attena	uted below the specified emission	mask.				
RESULTS							
Pass							
SIGNATURE							
Tosted By:							
Tested by							
DESCRIPTION OF TES	DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Low Channel 1GHz-3GHz							



		EMISSIONS	DATA SHEET		Rev BETA		
EMC					01/30/01		
	iDEN Radio			Work Order: RAF			
Serial Number:	148			Date:	08/22/01		
Customer:	RadioFrame Networks			Temperature:			
Attendees:	Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION	IS						
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIO	ONS						
0.011151170							
COMMENTS							
EUT OPERATING MOD	250						
	. Max Output powered measured a	at +11.1 dBm					
DEVIATIONS FROM T		it +11.4 dBm					
None	EST STANDARD						
REQUIREMENTS							
		uted below the specified emission					
RESULTS	spurious emission must be attena	uted below the specified emission	mask.				
Pass							
SIGNATURE							
SIGNATURE							
ATT. K.P							
Teatod By:							
DESCRIPTION OF TES	DESCRIPTION OF TEST						
	Antenna Conducted Spurious Emissions - Low Channel 3GHz-6GHz						
Antenna obnadelea opanoas Emissions - Eow onannei oonz-oonz							

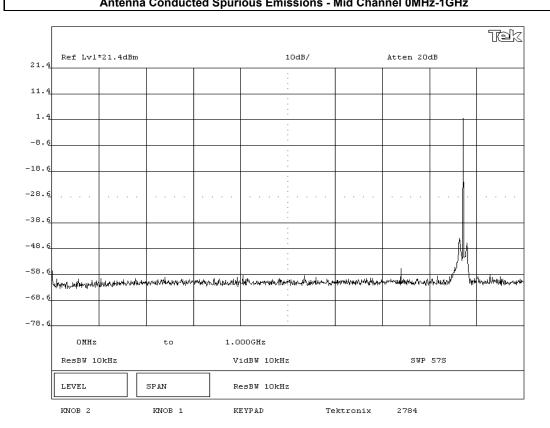


NORTHWEST EMC	EMISSIONS [DATA SH	EET		Rev BETA 01/30/01	
EUT: iDEN Radio				Work Order: RAFI	10007	
Serial Number: 148				Date:	08/22/01	
Customer: RadioFrame Networks				Temperature:	23 degrees C	
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer	
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIONS						
COMMENTS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	t +11.4 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attenau	uted below the specified emission	mask.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Low Channel 6GHz - 9GHz						

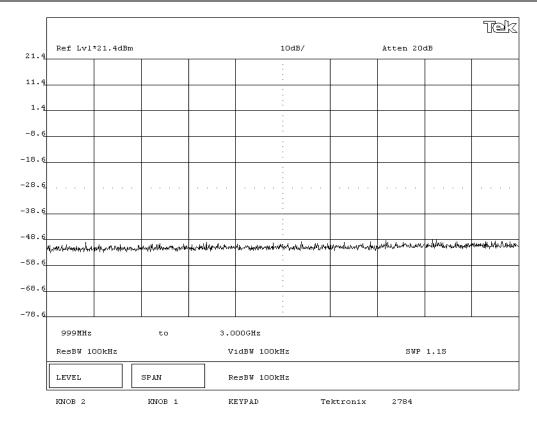


KNOB 2 KNOB 1 KEYPAD

NORTHWEST	EMISSIONS I	DATA SHEET		Rev BETA 01/30/01		
EUT: iDEN Radio			Work Order: RAFI	10007		
Serial Number: 148			Date:	08/22/01		
Customer: RadioFrame N	etworks		Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES Modulated by 16 QAM. Max Output p	encoder and the state of the st					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
	sion must be attenauted below the specified emission	mask				
RESULTS	sion must be attenduted below the specified emission	IIIdsk.				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-1GHz						

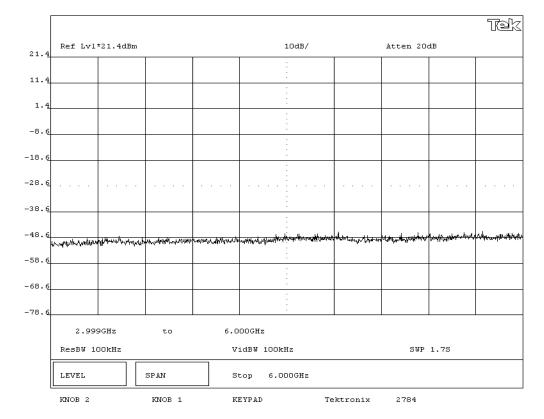


		EMISSIONS	DATA SHEET		Rev BETA	
EMC		Linicolene	DATA ONEET		01/30/01	
	iDEN Radio			Work Order: RAF		
Serial Number:					08/22/01	
	RadioFrame Networks			Temperature:		
	Dean Busch		Tested by: Greg Kiemel	Humidity:		
Customer Ref. No.:			Power: 120 V, 60 Hz (host)	Job Site:	Customer	
TEST SPECIFICATION						
	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIO	ONS					
					ļ	
COMMENTS						
EUT OPERATING MOD						
	I. Max Output powered measured a	ıt +11.4 dBm				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	spurious emission must be attena	uted below the specified emission	ı mask.			
RESULTS						
Pass						
SIGNATURE						
Tested By						
DESCRIPTION OF TES	т					
Antenna Conducted Spurious Emissions - Mid Channel 1GHz-3GHz						

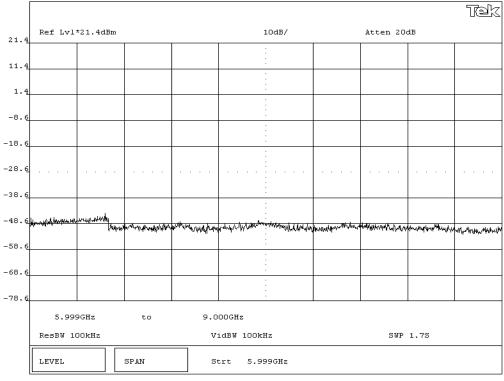


NORTHWEST EMC		EMISSIONS	DATA SHEET		Rev BETA		
					01/30/01		
	iDEN Radio			Work Order: RAFI			
Serial Number:					08/22/01		
	RadioFrame Networks			Temperature:			
	Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:			Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION							
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIO	ONS						
COMMENTS							
COMMENTS							
EUT OPERATING MOD	DES						
	. Max Output powered measured a	at +11 4 dBm					
DEVIATIONS FROM TE							
None							
REQUIREMENTS							
	spurious emission must be attena	uted below the specified emission	mask				
RESULTS	spurious emission must be attend	ated below the specified emission	muor.				
Pass							
SIGNATURE							
Tested By:	* AUK.P						
DESCRIPTION OF TES	DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Mid Channel 3GHz - 6GHz							



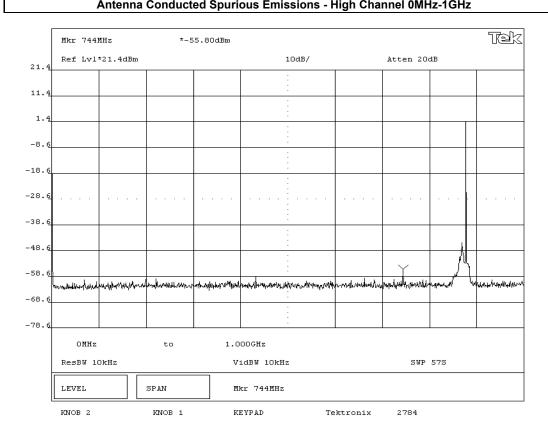


NORTHWEST EMC	EMISSIONS [DATA SH	EET		Rev BETA 01/30/01	
EUT: iDEN Radio				Work Order: RAF	0007	
Serial Number: 148				Date:	08/22/01	
Customer: RadioFrame Networks				Temperature:	23 degrees C	
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer	
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES Modulated by 16 QAM. Max Output powered measured a	4 144 4 -ID					
DEVIATIONS FROM TEST STANDARD	t +11.4 dBm					
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attended	uted below the encoified emission	maak				
RESULTS	ated below the specified emission	illask.				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
	wated One wiews Eng	lecience Mid				
Antenna Conducted Spurious Emissions - Mid Channel 6GHz-9GHz						

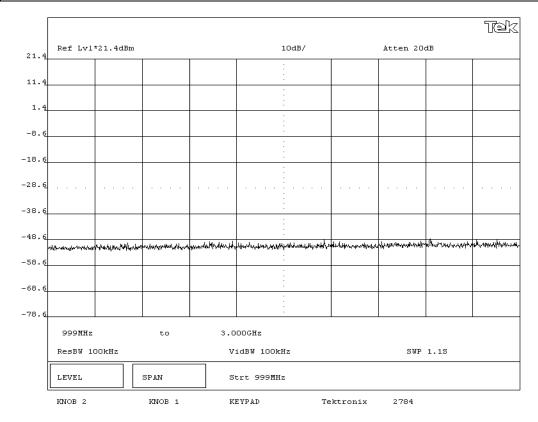


KNOB 2 KNOB 1 KEYPAD Tektronix 2784

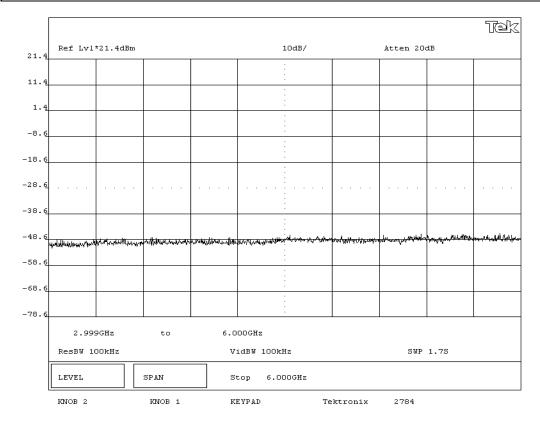
NORTHWEST EMC	EMISSIONS	DATA SHEET		Rev BETA 01/30/01		
EUT: iDEN Radio			Work Order: RAF	10007		
Serial Number: 148			Date:	08/22/01		
Customer: RadioFrame Networks			Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	/t +11.4 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS	ted below the second is described					
Maximum level of any spurious emission must be attena RESULTS	uted below the specified emission	. mask.				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - High Channel 0MHz-1GHz						



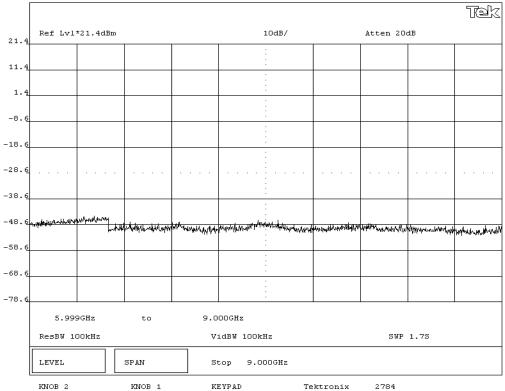
		EMISSIONS	DATA SHEET		Rev BETA	
EMC					01/30/01	
-	iDEN Radio			Work Order: RAF		
Serial Number:	148			Date:	08/22/01	
Customer:	RadioFrame Networks			Temperature:		
Attendees:	Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer	
TEST SPECIFICATION	IS					
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIO	ONS					
COMMENTS						
EUT OPERATING MOD						
	. Max Output powered measured a	at +11.4 dBm				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	spurious emission must be attena	uted below the specified emission	mask.			
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
DESCRIPTION OF TES						
Antenna Conducted Spurious Emissions - High Channel 1GHz-3GHz						



NORTHWEST EMC		EMISSIONS	DATA SHEET		Rev BETA		
					01/30/01		
	iDEN Radio			Work Order: RAF			
Serial Number:					08/22/01		
	RadioFrame Networks			Temperature:			
	Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:			Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION							
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATION	ONS						
COMMENTS							
COMMENTS							
EUT OPERATING MOD							
	. Max Output powered measured a	at +11.4 dBm					
DEVIATIONS FROM T		(+11.4 ubii)					
None	EST STANDARD						
REQUIREMENTS							
	anurious amigaian must be attend	uted below the specified emission	mook				
RESULTS	spurious emission must be attena	ated below the specified emission	mask.				
Pass							
SIGNATURE							
SIGNATURE							
And Kil							
Tested By:							
DESCRIPTION OF TES	DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - High Channel 3GHz-6GHz							
Antenna Conducted Spurious Emissions - Trigh Channel Sonz-oonz							



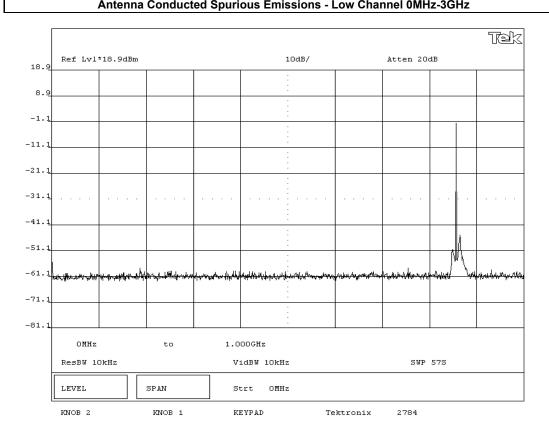
NORTHWEST EMC	EMISSIONS I	DATA SHEET		Rev BETA			
				01/30/01			
EUT: iDEN Radio			Work Order: RAF				
Serial Number: 148				08/22/01			
Customer: RadioFrame Networks			Temperature:				
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:				
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer			
TEST SPECIFICATIONS							
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATIONS							
COMMENTS							
EUT OPERATING MODES							
Modulated by 16 QAM. Max Output powered measured	at +11.4 dBm						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
Maximum level of any spurious emission must be attena	auted below the specified emission	mask.					
RESULTS	<u></u>						
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Antenna Conducted Spurious Emissions - High Channel 6GHz-9GHz							



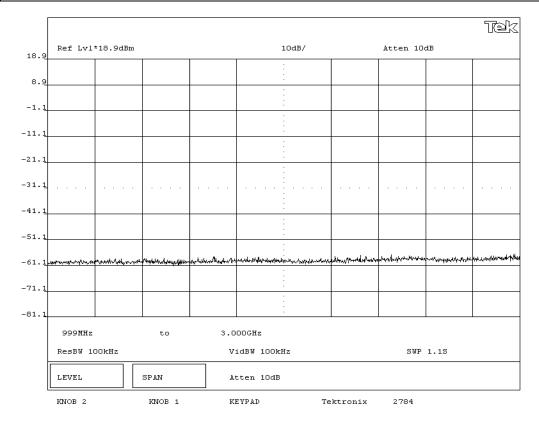
KNOB 2 KNOB 1 KEYPAD Tektronix Spurious RF Conducted Emissions

Output Power Set to +8 dBm

EMISSIONS DATA SHEET						
				01/30/01		
EUT: iDEN Radio			Work Order: RAFI			
Serial Number: 148				08/22/01		
Customer: RadioFrame Networks			Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	it +8.9 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attena	uted below the specified emission	mask.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz						

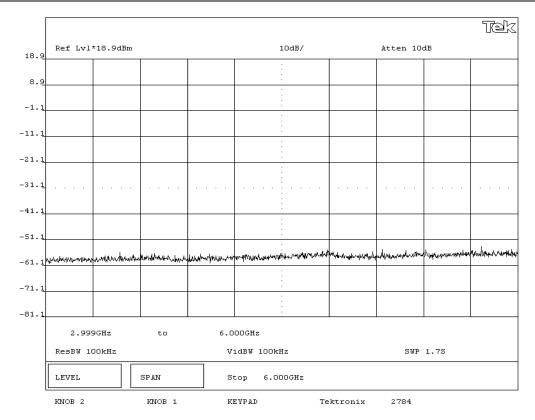


NORTHWEST EMC		EMISSIONS [DATA SHEET		Rev BETA		
	iDEN Radio			Work Order: RAF	01/30/01		
Serial Number:					08/22/01		
	RadioFrame Networks Dean Busch		To stad huy One a Kismal	Temperature:			
			Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:			Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Veen	Most Current		
SAMPLE CALCULATIO		Year: Wost Current	Method: TIA / EIA - 603	rear:	Wost Current		
SAMPLE CALCULATIO	JNS						
COMMENTS							
COMMENTS							
EUT OPERATING MOD							
	. Max Output powered measured a	at +8.9 dBm					
DEVIATIONS FROM TE		at +0.9 dBm					
None	ST STANDARD						
REQUIREMENTS							
	enurious omission must be attena	uted below the specified emission	mask				
RESULTS	spundus emission must be attena	died below the specified emission	IIIdək.				
Pass							
SIGNATURE							
SIGNATORE	ADU.K.P						
Tested By:	Tested By: VV						
DESCRIPTION OF TES	T						
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz							

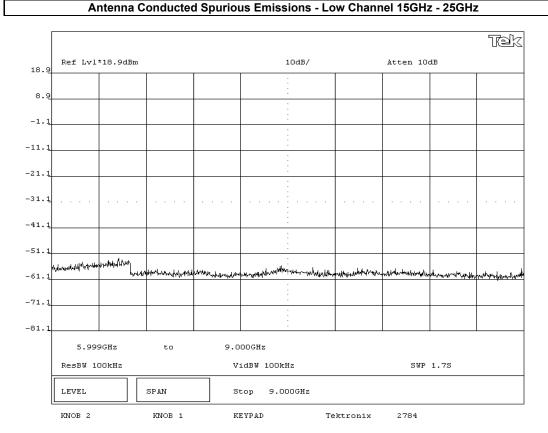


NORTHWEST EMC		EMISSIONS [DATA SHEET		Rev BETA			
	DEN Radio			Work Order: RAF	01/30/01			
Serial Number: 1					08/22/01			
	RadioFrame Networks			Temperature:				
Attendees: D			Tested by: Greg Kiemel	Humidity:				
Customer Ref. No.: N			Power: 120 V, 60 Hz (host)		Customer			
TEST SPECIFICATIONS				005 0110.	oustoniei			
Specification: 4		Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATION		Tour moot outfold		- Our	moot ourront			
COMMENTS								
EUT OPERATING MODE	S							
Modulated by 16 QAM.	Max Output powered measured a	t +8.9 dBm						
DEVIATIONS FROM TES	ST STANDARD							
None								
REQUIREMENTS								
Maximum level of any s	purious emission must be attenau	ited below the specified emission	mask.					
RESULTS								
Pass								
SIGNATURE								
Tested By:	ADU.K.P							
round by.	iesteu 6y							
DESCRIPTION OF TEST								
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz								

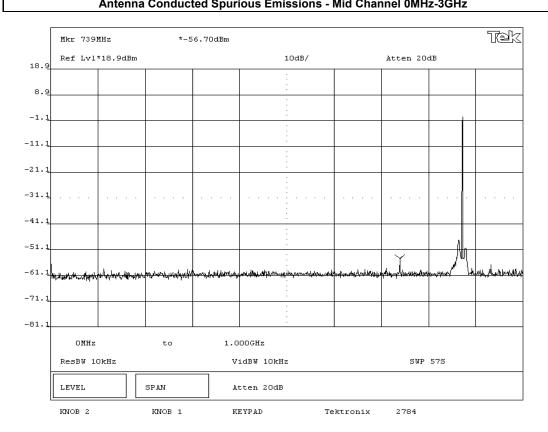
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz



EMISSIONS DATA SHEET						
EUT: IDEN Radio			Work Order: RAF	01/30/01		
Serial Number: 148				08/22/01		
Customer: RadioFrame Networks			Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)		Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	t +8 9 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attena	uted below the specified emission	mask.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz						

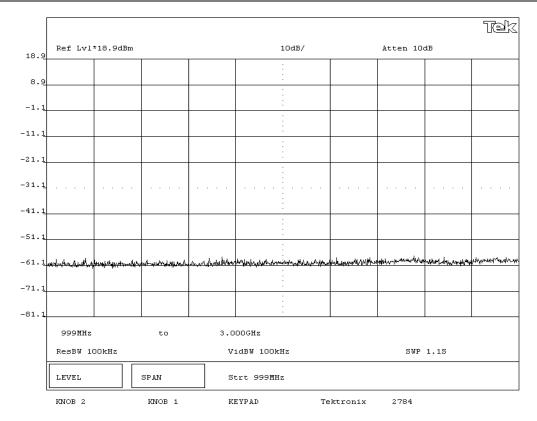


EMISSIONS DATA SHEET						
EUT: iDEN Radio			Work Order: RAF	10007		
Serial Number: 148			Date:	08/22/01		
Customer: RadioFrame Networks			Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	ıt +8.9 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attena RESULTS	uted below the specified emission	mask.				
Pass						
SIGNATURE						
Tested By						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz						

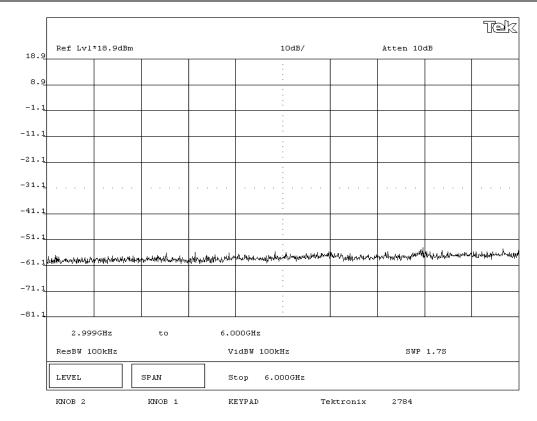


NORTHWEST EMC		EMISSIONS	DATA SHEET		Rev BETA 01/30/01	
	iDEN Radio			Work Order: RAF		
Serial Number:					08/22/01	
	RadioFrame Networks			Temperature:		
	Dean Busch		Tested by: Greg Kiemel	Humidity:		
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz (host)		Customer	
TEST SPECIFICATION						
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIO	ONS					
COMMENTS						
EUT OPERATING MOD						
	Max Output powered measured a	at +8.9 dBm				
DEVIATIONS FROM TE	EST STANDARD					
None						
REQUIREMENTS						
	spurious emission must be attena	uted below the specified emission	mask.			
RESULTS						
Pass						
SIGNATURE						
	ADU.K.P					
Tested By:						
DESCRIPTION OF TES	T					
	Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz					
1	Antenna Conut	acted opullous Lill	SSIONS - MILL CHAITLET JOI	12-0.50112		

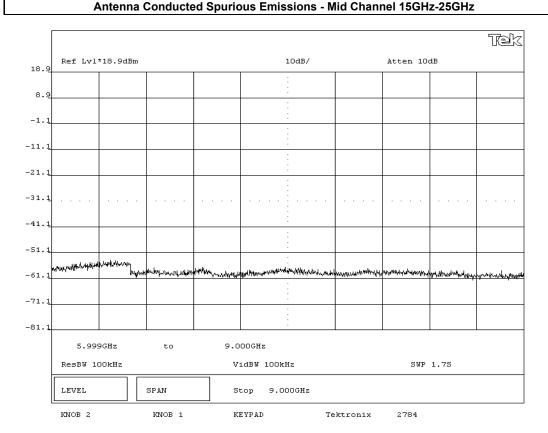
Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz



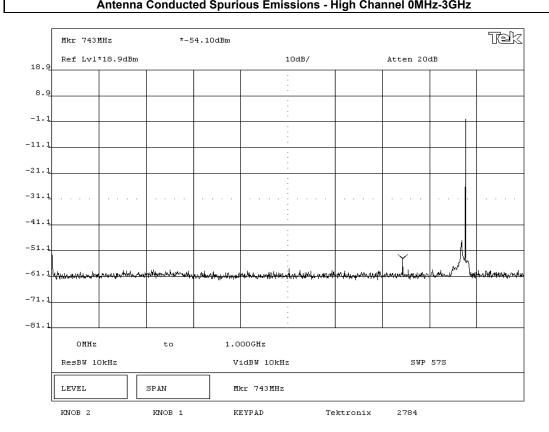
EMISSIONS DATA SHEET						
EUT: iDEN Radio			Work Order: RAF	10007		
Serial Number: 148			Date:	08/22/01		
Customer: RadioFrame Networks			Temperature:	23 degrees C		
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured a	at +8.9 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attena	luted below the specified emission	mask.				
RESULTS						
Pass SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz						



NORTHWEST EMC	EMISSIONS D	DATA SHI	EET		Rev BETA 01/30/01			
EUT: iDEN Radio				Work Order: RAFI	10007			
Serial Number: 148				Date:	08/22/01			
Customer: RadioFrame Networks				Temperature:	23 degrees C			
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer			
TEST SPECIFICATIONS								
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATIONS								
COMMENTS								
EUT OPERATING MODES								
Modulated by 16 QAM. Max Output powered measured a	t +9.0 dBm							
DEVIATIONS FROM TEST STANDARD	t +0.9 UBIN							
None								
REQUIREMENTS								
Maximum level of any spurious emission must be attended	ited below the specified omission	maek						
RESULTS	ated below the specified emission	indək.						
Pass								
SIGNATURE								
DESCRIPTION OF TEST								
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz								

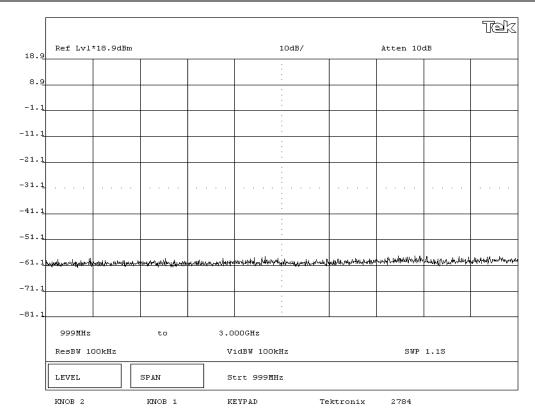


NORTHWEST EMC	EMISSIONS D		EET		Rev BETA 01/30/01
EUT: iDEN Radio				Work Order: RAFI	10007
Serial Number: 148				Date:	08/22/01
Customer: RadioFrame Networks				Temperature:	
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer
TEST SPECIFICATIONS					
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current
SAMPLE CALCULATIONS					
COMMENTS					
COMMENTS					
EUT OPERATING MODES					
Modulated by 16 QAM. Max Output powered measured at	t +8 9 dBm				
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission must be attenau	ited below the specified emission	mask			
RESULTS					
Pass					
SIGNATURE					
Tested By:					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



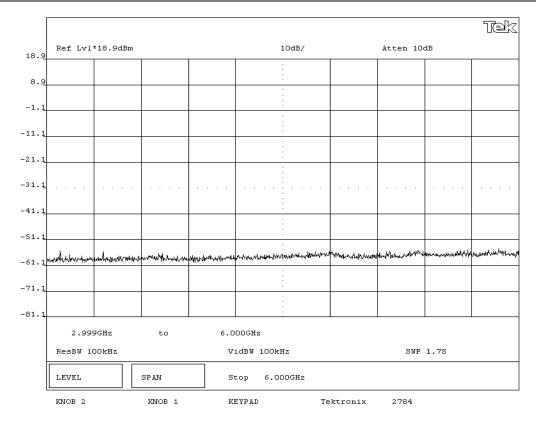
NORTHWEST EMC		EMISSIONS I	DATA SHEET		Rev BETA		
	iDEN Radio			Work Order: RAF	01/30/01		
Serial Number:					08/22/01		
	RadioFrame Networks			Temperature:			
	Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:			Power: 120 V, 60 Hz (host)		Customer		
TEST SPECIFICATION				000 01101	Customer		
	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIO							
COMMENTS							
COMMENTO							
EUT OPERATING MOD	DES						
	. Max Output powered measured a	at +8.9 dBm					
DEVIATIONS FROM TE	EST STANDARD						
None							
REQUIREMENTS							
Maximum level of any	spurious emission must be attena	uted below the specified emission	mask.				
RESULTS							
Pass							
SIGNATURE							
Tested By:	ADU.K.P						
DESCRIPTION OF TES	DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz							

Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz

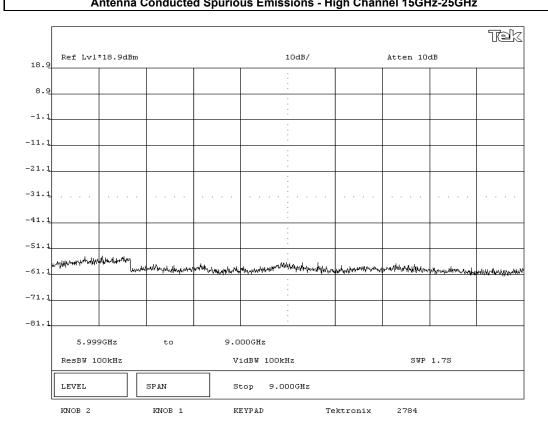


NORTHWEST	EMISSIONS I	DATA SHEET		Rev BETA		
				01/30/01		
EUT: iDEN Radio			Work Order: RAFI			
Serial Number: 148				08/22/01		
Customer: RadioFrame Networks			Temperature:			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measure	d at +8.9 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be atte	nauted below the specified emission	i mask.				
RESULTS						
Pass						
SIGNATURE						
Tasked By:						
DESCRIPTION OF TEST						
Antenna Cond	ucted Spurious Emis	sions - High Channel 6.50	GHz-15GHz			

Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz



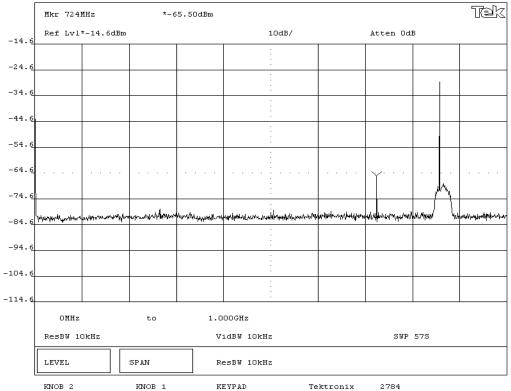
NORTHWEST EMC	EMISSIONS D	DATA SHI	EET		Rev BETA 01/30/01	
EUT: iDEN Radio				Work Order: RAFI	10007	
Serial Number: 148				Date:	08/22/01	
Customer: RadioFrame Networks				Temperature:		
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer	
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIONS						
0011151170						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured at	t +8 9 dBm					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attenau	ited below the specified emission	mask				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz						



Spurious RF Conducted Emissions

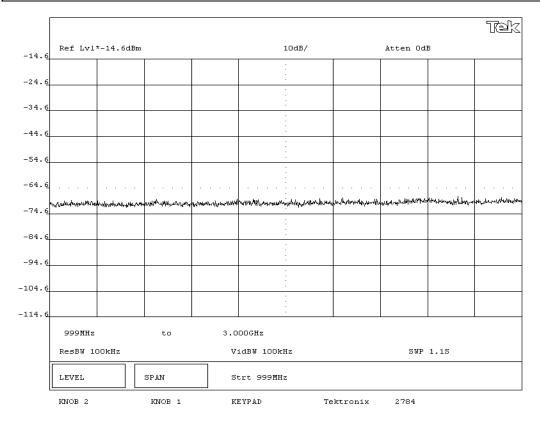
Output Power Set to -24 dBm

NORTHWEST EMC	EMISSIONS [DATA SH	EET		Rev BETA 01/30/01
EUT: iDEN Radio				Work Order: RAF	10007
Serial Number: 148				Date:	08/22/01
Customer: RadioFrame Networks				Temperature:	23 degrees C
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer
TEST SPECIFICATIONS					• •
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current
SAMPLE CALCULATIONS					•
COMMENTS					
EUT OPERATING MODES Modulated by 16 QAM. Max Output powered measured at	24 dBm				
DEVIATIONS FROM TEST STANDARD	-24 uBill.				
None					
REQUIREMENTS					
Maximum level of any spurious emission must be attenau	ited below the specified emission	mask			
RESULTS	ated below the specified emission	indok.			
Pass					
Tested By:					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 0MHz-1GHz					

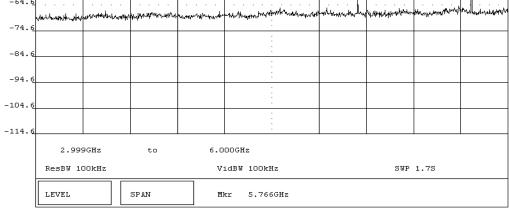


KNOB 1 KEYPAD

		EMISSIONS	DATA SHEET		Rev BETA			
EMC			SITING THEET		01/30/01			
-	iDEN Radio			Work Order: RAF				
Serial Number:					08/22/01			
Customer:	RadioFrame Networks			Temperature:				
Attendees:	Dean Busch		Tested by: Greg Kiemel	Humidity:				
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer			
TEST SPECIFICATION	IS							
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATIO	ONS							
COMMENTS								
EUT OPERATING MOD								
	. Max Output powered measured a	t -24 dBm.						
DEVIATIONS FROM T	EST STANDARD							
None								
REQUIREMENTS								
	spurious emission must be attena	uted below the specified emission	mask.					
RESULTS								
Pass								
SIGNATURE								
Tested By:	ADU.K.P							
DESCRIPTION OF TES								
	Antenna Conducted Spurious Emissions - Low Channel 1GHz-3GHz							



NORTHWEST EMC	EMISSIONS	DATA SHEET		Rev BETA 01/30/01		
EUT:	iDEN Radio		Work Order: RAFI	10007		
Serial Number:	148		Date:	08/22/01		
Customer:	RadioFrame Networks		Temperature:	23 degrees C		
Attendees:	Dean Busch	Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.:	N/A	Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION	S					
Specification:	47 CFR 90.691 Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIC	DNS					
0011151/20						
COMMENTS						
EUT OPERATING MOD						
	Max Output powered measured at -24 dBm.					
DEVIATIONS FROM TE None	ST STANDARD					
REQUIREMENTS						
RESULTS	spurious emission must be attenauted below the specified emission	n mask.				
Pass						
SIGNATURE						
Tested By: AFR						
DESCRIPTION OF TES	т					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6GHz						

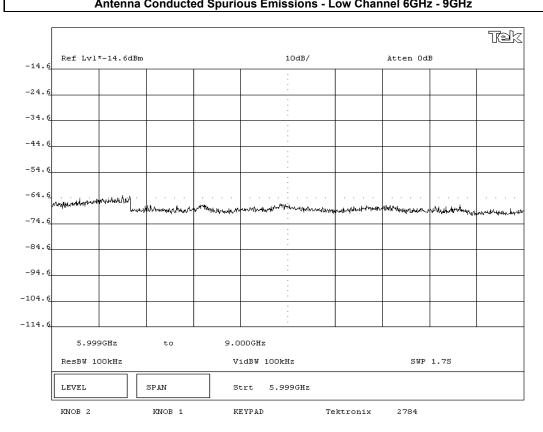


KNOB 2 KNOB 1

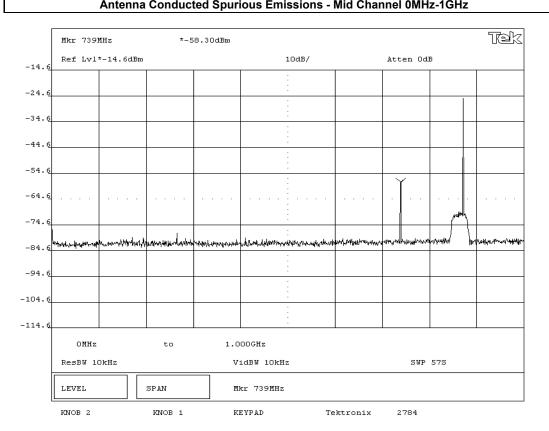
KEYPAD

Tektronix 2784

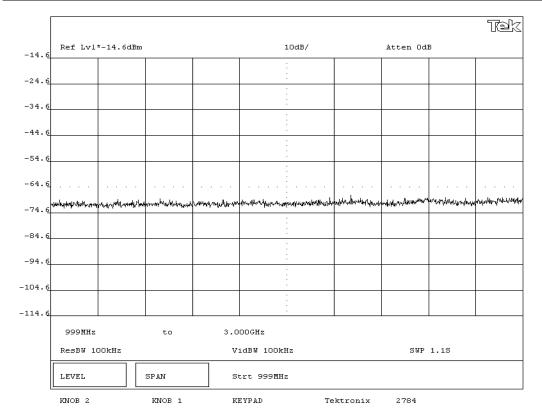
NORTHWEST EMC	EMISSIONS I	DATA SHEET		Rev BETA 01/30/01			
EUT: iDEN Radio			Work Order: RAFI	10007			
Serial Number: 148			Date:	08/22/01			
Customer: RadioFrame Networks			Temperature:	23 degrees C			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer			
TEST SPECIFICATIONS							
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATIONS							
COMMENTS							
EUT OPERATING MODES							
Modulated by 16 QAM. Max Output powered measured at	t -24 dBm.						
DEVIATIONS FROM TEST STANDARD							
REQUIREMENTS							
Maximum level of any spurious emission must be attena	uted below the apacified amigaion	maak					
RESULTS	died below the specified emission	IIIdər.					
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Antenna Conducted Spurious Emissions - Low Channel 6GHz - 9GHz							



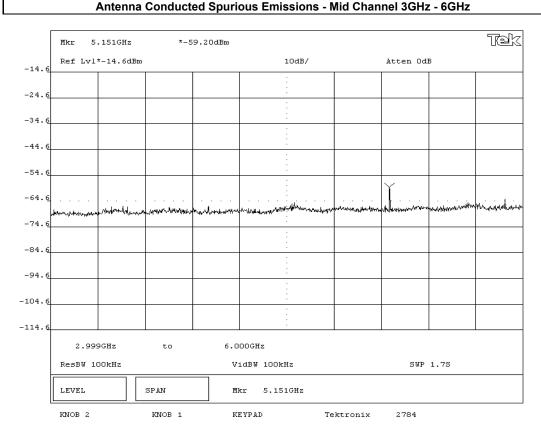
NORTHWEST	EMISSIONS [DATA SH	EET		Rev BETA 01/30/01	
EUT: iDEN Radio				Work Order: RAFI	10007	
Serial Number: 148					08/22/01	
Customer: RadioFrame Networks					23 degrees C	
Attendees: Dean Busch	!	Tested by:	Greg Kiemel	Humidity:		
Customer Ref. No.: N/A	!	Power:	120 V, 60 Hz (host)	Job Site:	Customer	
TEST SPECIFICATIONS						
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current	
SAMPLE CALCULATIONS						
COMMENTS						
COMMENTS						
EUT OPERATING MODES						
Modulated by 16 QAM. Max Output powered measured at	t -24 dBm.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Maximum level of any spurious emission must be attenan	uted below the specified emission	mask.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-1GHz						



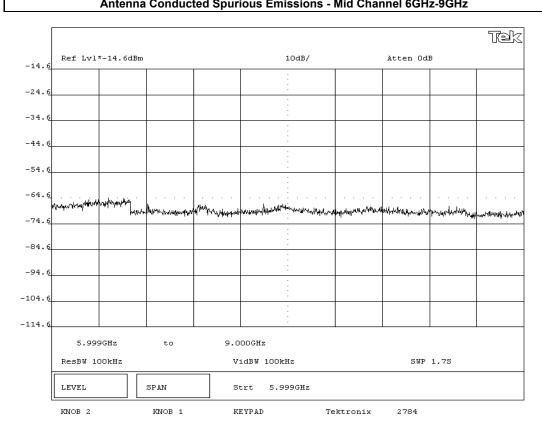
NORTHWEST EMC		EMISSIONS	DATA SHEET		Rev BETA		
					01/30/01		
-	iDEN Radio			Work Order: RAFI			
Serial Number:					08/22/01		
	RadioFrame Networks			Temperature:			
	Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATION							
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIO	ONS						
COMMENTS							
COMMENTS							
EUT OPERATING MOD	DES						
	. Max Output powered measured at	t -24 dBm.					
DEVIATIONS FROM T							
None							
REQUIREMENTS							
Maximum level of any	spurious emission must be attena	uted below the specified emission	mask.				
RESULTS	•	•					
Pass							
SIGNATURE							
Tested By:	ADU.K.P						
DESCRIPTION OF TES	DESCRIPTION OF TEST						
	Antenna Conducted Spurious Emissions - Mid Channel 1GHz-3GHz						



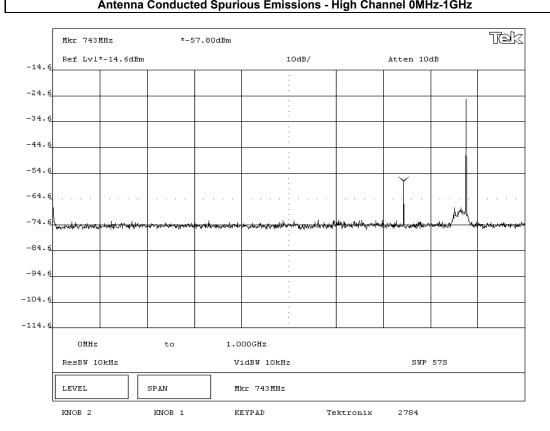
NORTHWEST EMC		EMISSIONS	DATA SHEET		Rev BETA			
					01/30/01			
	iDEN Radio			Work Order: RAF				
Serial Number:					08/22/01			
	RadioFrame Networks			Temperature:				
	Dean Busch		Tested by: Greg Kiemel	Humidity:				
Customer Ref. No.:			Power: 120 V, 60 Hz (host)	Job Site:	Customer			
TEST SPECIFICATION								
Specification:	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATION	ONS							
COMMENTS								
COMMENTS								
EUT OPERATING MOD	250							
	. Max Output powered measured a	t 24 dBm						
DEVIATIONS FROM T		t -24 üBm.						
None	EST STANDARD							
REQUIREMENTS								
		uted below the specified emission						
RESULTS	spurious emission must be attena	ated below the specified emission	IIIdSK.					
Pass								
SIGNATURE								
SIGNATURE								
	ADU.K.P							
Tested By:	Tosted By:							
DESCRIPTION OF TES	DESCRIPTION OF TEST							
	Antenna Cond	ucted Spurious Em	issions - Mid Channel 3G	Hz - 6GHz				



NORTHWEST	EMISSIONS I	DATA SHEET		Rev BETA 01/30/01			
EUT: iDEN Radio			Work Order: RAFI	10007			
Serial Number: 148			Date:	08/22/01			
Customer: RadioFrame Networks			Temperature:	23 degrees C			
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer			
TEST SPECIFICATIONS							
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current			
SAMPLE CALCULATIONS							
COMMENTS							
EUT OPERATING MODES	and at 04 dBm						
Modulated by 16 QAM. Max Output powered meas	ured at -24 dbm.						
DEVIATIONS FROM TEST STANDARD None							
REQUIREMENTS							
REQUIREMENTS Maximum level of any spurious emission must be	attenauted below the encoding emission	maak					
RESULTS	attenauted below the specified emission	mask.					
Pass							
SIGNATURE							
Tested By							
DESCRIPTION OF TEST							
Antenna Conducted Spurious Emissions - Mid Channel 6GHz-9GHz							

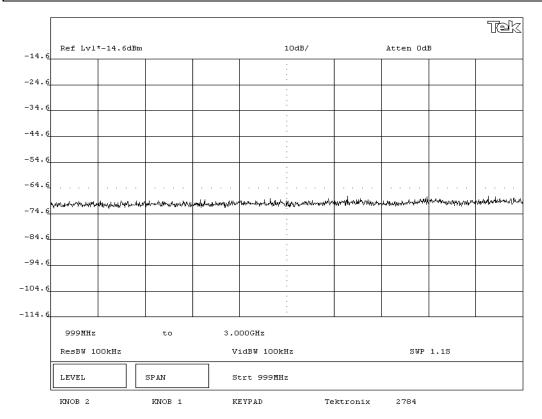


NORTHWEST EMC	EMISSIONS D	DATA SHI	EET		Rev BETA 01/30/01
EUT: iDEN Radio				Work Order: RAFI	10007
Serial Number: 148				Date:	08/22/01
Customer: RadioFrame Networks				Temperature:	
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer
TEST SPECIFICATIONS					
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current
SAMPLE CALCULATIONS					
0011151150					
COMMENTS					
EUT OPERATING MODES					
EUT OPERATING MODES Modulated by 16 QAM. Max Output powered measured at	24 dBm				
DEVIATIONS FROM TEST STANDARD	-24 uBili.				
None					
REQUIREMENTS					
Maximum level of any spurious emission must be attenau	ted below the apacified amiggion	maak			
RESULTS	ned below the specified emission	mask.			
Pass					
SIGNATURE					
Tested By:					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-1GHz					



NORTHWEST EMC		EMISSIONS	DATA SHEET		Rev BETA		
	IDEN Radio			Work Order: RAF	01/30/01		
Serial Number:					08/22/01		
	RadioFrame Networks			Temperature:			
	Dean Busch		Tested by: Greg Kiemel	Humidity:			
Customer Ref. No.:			Power: 120 V, 60 Hz (host)		Customer		
TEST SPECIFICATION				000 01101	oustonie		
	47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIO					moot ourro		
COMMENTS							
EUT OPERATING MOD		A Ad dBas					
	I. Max Output powered measured at	1-24 dBm.					
DEVIATIONS FROM TE None	EST STANDARD						
REQUIREMENTS	anurious amission must be attend	uted below the specified emission	maak				
RESULTS	spurious emission must be attena	ated below the specified emission	mask.				
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TES	бТ						
	Antenna Conducted Spurious Emissions - High Channel 1GHz-3GHz						





NORTHWEST EMC	EMISSIONS I	DATA SHEET		Rev BETA 01/30/01				
EUT: iDEN Radio			Work Order: RAF	10007				
Serial Number: 148			Date:	08/22/01				
Customer: RadioFrame Networks			Temperature:	23 degrees C				
Attendees: Dean Busch		Tested by: Greg Kiemel	Humidity:	38% RH				
Customer Ref. No.: N/A		Power: 120 V, 60 Hz (host)	Job Site:	Customer				
TEST SPECIFICATIONS								
Specification: 47 CFR 90.691	Year: Most Current	Method: TIA / EIA - 603	Year:	Most Current				
SAMPLE CALCULATIONS								
COMMENTS								
EUT OPERATING MODES								
Modulated by 16 QAM. Max Output powered measured a	t -24 dBm.							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
Maximum level of any spurious emission must be attena	uted below the specified emission	mask.						
RESULTS								
Pass								
SIGNATURE								
Tested By:								
DESCRIPTION OF TEST								
Antenna Conducted Spurious Emissions - High Channel 3GHz-6GHz								

Tek Mkr 5.181GHz *-58.90dBm Ref Lvl*-14.6dBm 10dB/ Atten OdB -14.6 -24.6 -34.6 -44.6 -54.6 -64.6 monunder approximity and a second a manufa al hours which had been a se And the state of the second with the shall be -74.6 -84.6 -94.6 -104.6 -114.6 2.999GHz 6.000GHz to ResBW 100kHz VidBW 100kHz SWP 1.75 LEVEL SPAN Mkr 5.181GHz 2784

KNOB 2 KNOB 1 KEYPAD Tektronix

NORTHWEST EMC	EMISSIONS D	DATA SH	EET		Rev BETA 01/30/01		
EUT: iDEN Radio				Work Order: RAF	10007		
Serial Number: 148				Date:	08/22/01		
Customer: RadioFrame Networks				Temperature:	23 degrees C		
Attendees: Dean Busch		Tested by:	Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power:	120 V, 60 Hz (host)	Job Site:	Customer		
TEST SPECIFICATIONS							
Specification: 47 CFR 90.691	Year: Most Current	Method:	TIA / EIA - 603	Year:	Most Current		
SAMPLE CALCULATIONS							
COMMENTS							
COMMENTS							
EUT OPERATING MODES							
Modulated by 16 QAM. Max Output powered measured at	-24 dBm.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
Maximum level of any spurious emission must be attenau	uted below the specified emission	mask.					
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST	DESCRIPTION OF TEST						
Antenna Conducted Spurious Emissions - High Channel 6GHz-9GHz							

