

TEST DATA

Model Name	: VX-180U/160U		
FCC ID	: K66VX-160U		
Serial Number	: 1D010191		
Specification is Referenced	: EIA/TIA-603		
	RSS119		
Type	: D		
Emission Type	: 16K0F3E/11K0F3E		
Channel Spacing	: 25 / 12.5		[kHz]
Description	: Portable		
Mode	: FM		
Test Voltage	Nominal	: 7.2	[V]
	Extrem	*.85 : 6.1	[V]
		*1.15 : 8.3	[V]
Temperature	Nominal	: 25	[°C]
	Extrem	: -30 - +60	[°C]
Test Frequency	1	TX : 490.0100	[MHz]
		RX : 490.0100	[MHz]
			[MHz]
			[MHz]
			[MHz]
			[MHz]
			[MHz]
1st IF Frequency			
	RX	: 44.25	[MHz]
2nd IF Frequency			
	RX	: 0.45	[kHz]
Microphone Impedance		: 2000	[Ω]
Speaker Impedance		: 4	[Ω]
Manufacturer	: VERTEX STANDARD CO., LTD.		
Test Operator	: M.Kurihara		
Test Date	Start	: 2001/7/2	
	Finish	: 2001/7/5	

VX-180U/160U Channel Settings

CH No.	Shown on LCD	Transmit Frequency [MHz]	Receive Frequency [MHz]	CH Spacing	Power	
					High (default)	Low (press ACC)
1	49001WH	490.01	490.01	25k	5W	
2	49001WL	490.01	490.01	25k	1W	
3	49001NH	490.01	490.01	12.5k	5W	
4	49001NL	490.01	490.01	12.5k	1W	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

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Band Type :D

Carrier Power Output Rating (PARAGRAPH 2.2.1)

Carrier Frequency [MHz]	RF Power HIGH [W]	RF Power LOW 1 [W]	RF Power LOW 2 [W]	RF Power LOW 3 [W]
490.010	4.98	1.15		
0.000				
0.000				

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Conducted Spurious Emission (PARAGRAPH 2.2.13)

POWER: HIGH

	490.010 MHz		Carrier Freq			
	Emission Frequency [MHz]	Spurious Attenuation [dBm]				
2nd	980.02	-38.00				
3rd	1470.03	Noise Floor				
4th	1960.04	Noise Floor				
5th	2450.05	Noise Floor				
6th	2940.06	Noise Floor				
7th	3430.07	Noise Floor				
8th	3920.08	Noise Floor				
9th	4410.09	Noise Floor				
10th	4900.10	Noise Floor				

POWER: LOW

	490.010 MHz		Carrier Freq			
	Emission Frequency [MHz]	Spurious Attenuation [dBm]				
2nd	980.02	Noise Floor				
3rd	1470.03	Noise Floor				
4th	1960.04	Noise Floor				
5th	2450.05	Noise Floor				
6th	2940.06	Noise Floor				
7th	3430.07	Noise Floor				
8th	3920.08	Noise Floor				
9th	4410.09	Noise Floor				
10th	4900.10	Noise Floor				

Field Strength of Spurious Radiation (PARAGRAPH 2.2.12)

POWER: HIGH

490.010 MHz						
Emission Frequency [MHz]	ERP S/G level [dBm]	Cable Loss [dB]	Correction Factor (ref. to 1/2 dipole) [dB]	Emission level [dBm]	Limit Mask D [dBm]	Margin [dB]
980.02	-71.44	2.97	32.37	-36.10	-20.00	16.10
1470.03	-35.17	3.56	1.01	-30.60	-20.00	10.60
1960.04	-35.80	4.39	3.11	-28.30	-20.00	8.30
2450.05	-35.17	4.94	9.13	-21.10	-20.00	1.10
2940.06	-41.50	5.78	6.22	-29.50	-20.00	9.50
3430.07	-47.16	6.66	11.80	-28.70	-20.00	8.70
3920.08	-51.34	6.67	6.67	-38.00	-20.00	18.00
4410.09	Noise floor			<-40		
4900.10	Noise floor			<-40		

POWER: LOW

490.010 MHz						
Emission Frequency [MHz]	ERP S/G level [dBm]	Cable Loss [dB]	Correction Factor (ref. to 1/2 dipole) [dB]	Emission level [dBm]	Limit Mask D [dBm]	Margin [dB]
980.02	-70.44	2.97	32.37	-35.10	-20.00	15.10
1470.03	-44.77	3.56	1.01	-40.20	-20.00	20.20
1960.04	-45.50	4.39	3.11	-38.00	-20.00	18.00
2450.05	-41.07	4.94	9.13	-27.00	-20.00	7.00
2940.06	Noise floor			<-40		
3430.07	Noise floor			<-40		
3920.08	Noise floor			<-40		
4410.09	Noise floor			<-40		
4900.10	Noise floor			<-40		

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 Channel Spacing :25 / 12.5 [kHz]
 Band Type :D

Conducted Spurious Emission
 (PARAGRAPH 2.1.2)

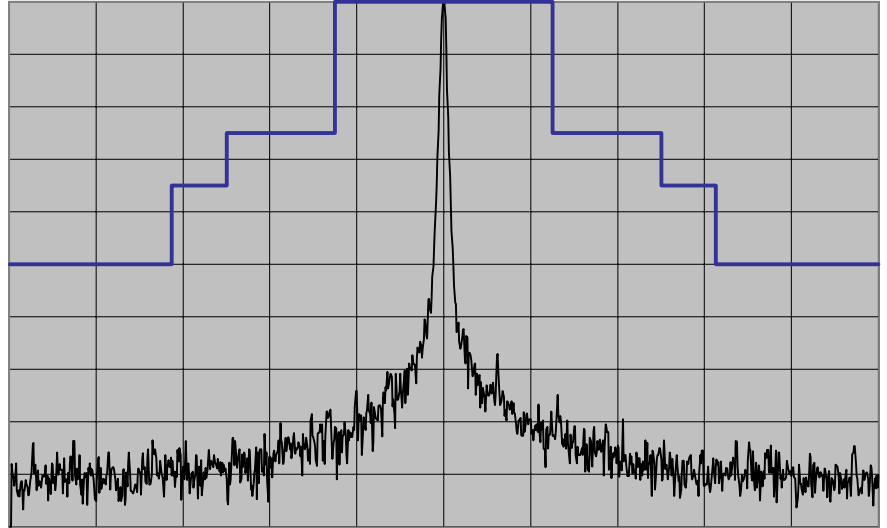
Frequency Tuned [MHz]	Frequency Emission [MHz]	Level [nW]
490.0100	445.7000	0.0200

Field Strength of Spurious Radiation From Internal Radiators (PARAGRAPH 2.1.1)

Frequency Tuned [MHz]	490.010 MHz		Turntable Azimuth [deg]	Antenna Hight [m]	Analyzer Reading [dBuV]	Correction Factor [dB/m]	Emission level [dBuV/m]	Limit [dBuV/m]	Margin [dB]
	Test Detector	Antenna Polarity (H/V)							
442.3740	QP	V	20.00	1.00	45.60	-4.20	41.40	46.00	4.60

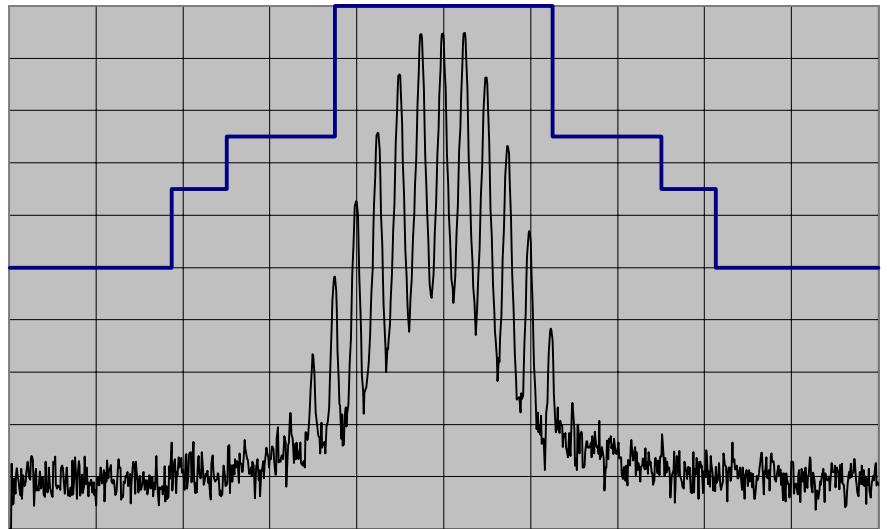
Occupied Bandwidth

CENTER FREQ 490.009 MHz
 SPAN 100 KHz
 REF LEVEL 36.4 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 300 Hz
 VIDEO BW 300 Hz
 SWEEP TIME 5 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	High	Modulation	None

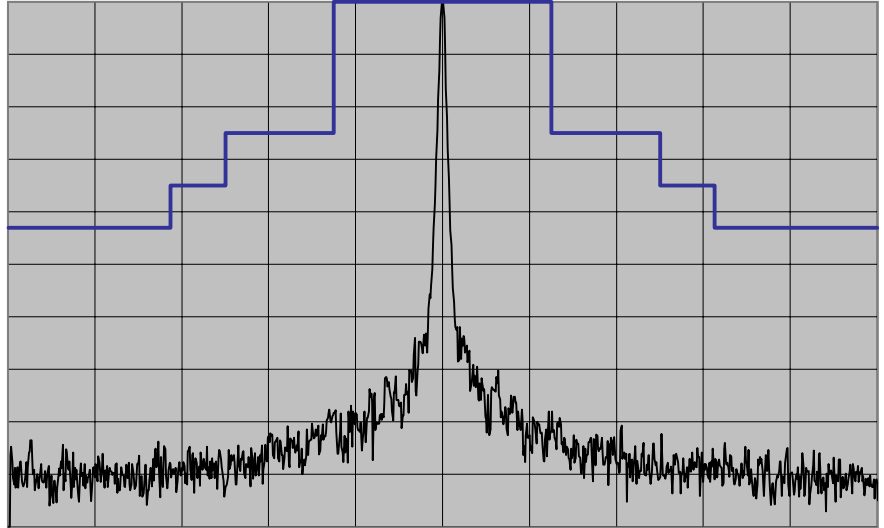
CENTER FREQ 490.009 MHz
 SPAN 100 KHz
 REF LEVEL 36.4 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 300 Hz
 VIDEO BW 300 Hz
 SWEEP TIME 5 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	High	Modulation	Voice

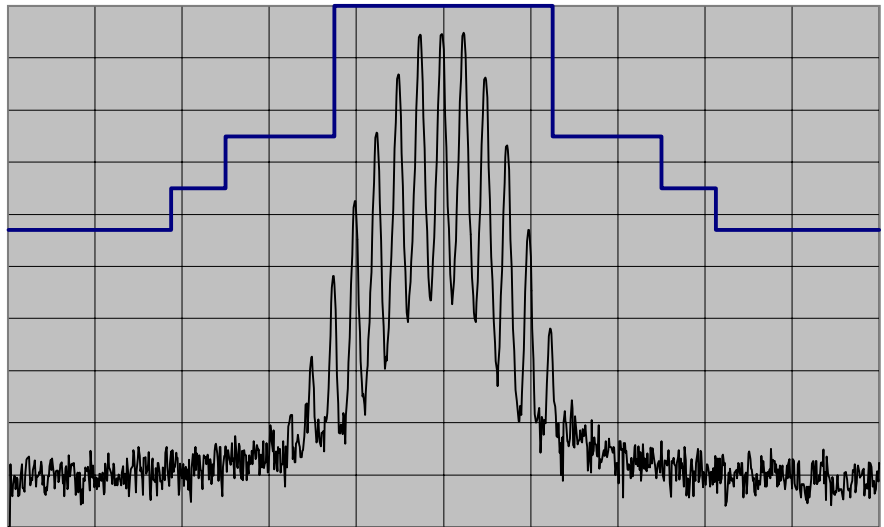
Occupied Bandwidth

CENTER FREQ 490.009 MHz
 SPAN 100 KHz
 REF LEVEL 30.5 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 300 Hz
 VIDEO BW 300 Hz
 SWEEP TIME 5 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	Low	Modulation	None

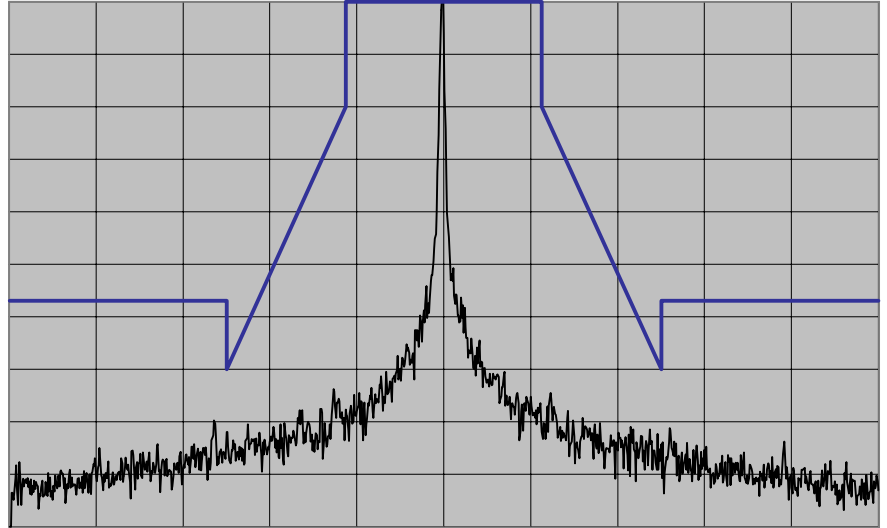
CENTER FREQ 490.009 MHz
 SPAN 100 KHz
 REF LEVEL 30.5 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 300 Hz
 VIDEO BW 300 Hz
 SWEEP TIME 5 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	Low	Modulation	Voice

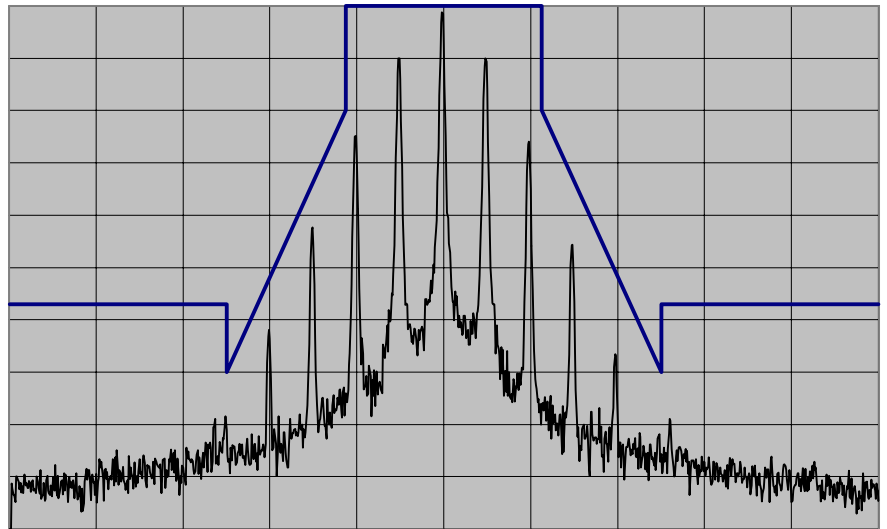
Occupied Bandwidth

CENTER FREQ 490.0094 MHz
 SPAN 50 KHz
 REF LEVEL 36.3 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 100 Hz
 VIDEO BW 100 Hz
 SWEEP TIME 30 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	High	Modulation	None

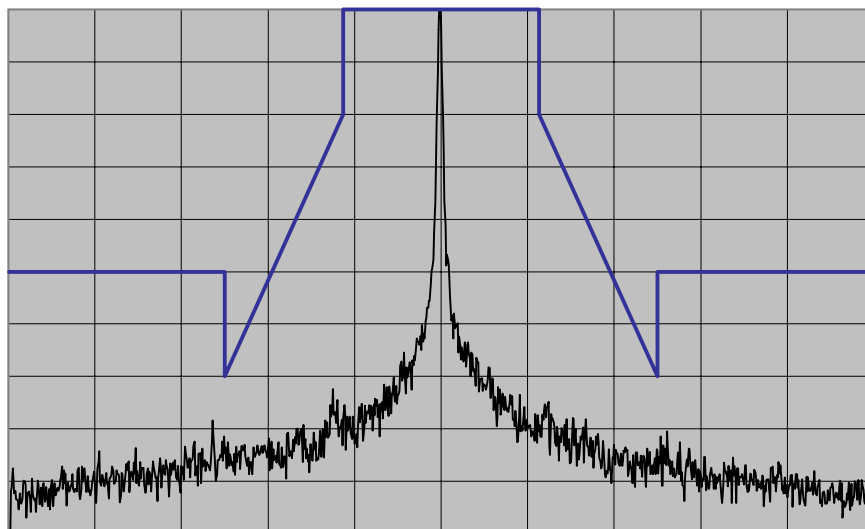
CENTER FREQ 490.0093 MHz
 SPAN 50 KHz
 REF LEVEL 36.3 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 100 Hz
 VIDEO BW 100 Hz
 SWEEP TIME 30 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	High	Modulation	Voice

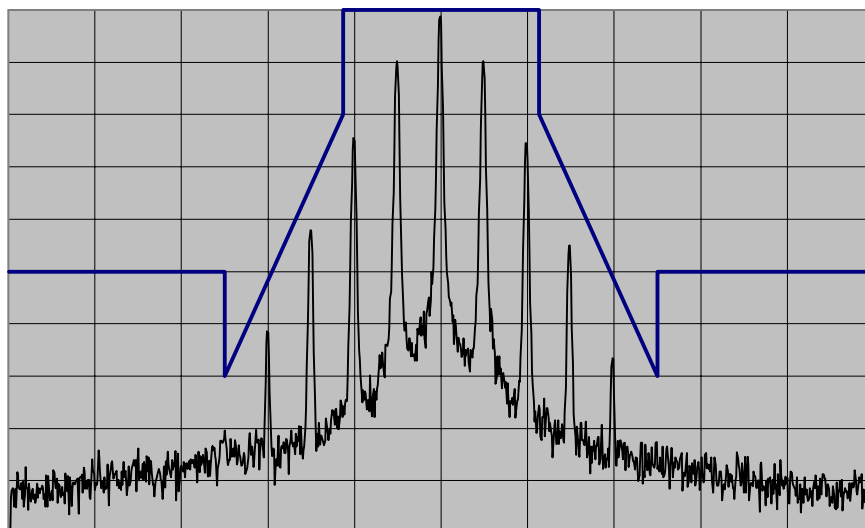
Occupied Bandwidth

CENTER FREQ 490.0094 MHz
 SPAN 50 KHz
 REF LEVEL 30.4 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 100 Hz
 VIDEO BW 100 Hz
 SWEEP TIME 30 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	Low	Modulation	None

CENTER FREQ 490.0094 MHz
 SPAN 50 KHz
 REF LEVEL 30.4 dBm
 /DIV 10 dB/
 ATT 20 dB
 OFFSET 36.8 dB
 RES BW 100 Hz
 VIDEO BW 100 Hz
 SWEEP TIME 30 s
 AVG



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	Low	Modulation	Voice