

APPLICANT

Fomotech International Corporation
 2F-1, 286-3, Hsin Ya Road
 Chein, Chen District, Kaoshing, Taiwan

MANUFACTURER

SAME AS APPLICANT

TEST SPECIFICATION: ~~FCC Rules and Regulations Part 15, Subpart C, Para. 15.231~~

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: ~~Fomotech International Corporation~~ MODEL: ~~Alpha 580~~

TYPE: ~~Pulsed RF Transmitter~~

POWER REQUIREMENTS: ~~3 VDC derived from 2 "AA" batteries~~

FREQUENCY OF OPERATION: ~~433.25 MHz~~

TESTS PERFORMED

Para. 15.231(b), Radiated Emissions, Fundamental and Harmonics

Para. 15.209(a), Radiated Emissions, Spurious Case

Para. 15.231(c), Occupied Bandwidth

Duty Cycle Determination

REPORT OF MEASUREMENTS

Applicant: Fomotech International Corporation

Device: 433.25 MHz Pulsed RF Transmitter

FCC ID: LZ6ALPHA510SERIES

Power Requirements: 3 VDC derived from 2 "AA" batteries

Applicable Rule Section: Part 15, Subpart C, Section 15.231



Retlif Testing Laboratories

**Test Report No. R-8882-1
 FCC ID: LZ6ALPHA510SERIES**



Retlif Testing Laboratories

**Test Report No. R-8882-1
FCC ID: LZ6ALPHA510SERIES**

REPORT OF MEASUREMENTS (continued)

TEST RESULTS

- 15.231 (a) - The device is used as a transmitter for Remote Control purposes.
- 15.231 (a)(1) & - The transmitter is manually operated and ceases transmission within 5
15.231(2) seconds after deactivation.
- 15.231 (a)(3) - The transmitter does not perform periodic transmissions.
- 15.231 (a)(4)- Not applicable
- 15.231 (b) - The fundamental field strength did not exceed 10,970 $\mu\text{V}/\text{M}$ (Average) at a test distance of 3 meters. In addition, the requirements of section 15.35 for averaging pulsed emissions and for limiting peak emissions were met.
- The field strength of harmonic and spurious emissions did not exceed 1,097 $\mu\text{V}/\text{M}$ (AVERAGE).
- 15.231 (c) - The device operates at 433.25 MHz. The bandwidth of emissions did not exceed 0.25% of the operating frequency (1.1 MHz).

DETERMINATION OF FIELD STRENGTH LIMITS

The field strength limits shown below are found in Section 15.231.

	Frequency		Limit
F1	= 260	3750	= L1
Fo	= 433		Lo
F2	= 470	12500	= L2

The formula below was utilized to determine the limits:

$$\text{Limit} = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]$$

Solving yields:

Fundamental Limit = 10,970 $\mu\text{V}/\text{M}$ (AVERAGE) @ 3 Meters

Harmonic Limit = 1,097 $\mu\text{V}/\text{M}$ (AVERAGE) @ 3 Meters



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REPORT OF MEASUREMENTS (continued)

DETERMINATION OF DUTY CYCLE

The unit's RF output was directly coupled to the input of the spectrum analyzer. The analyzer was set for a frequency span of 0Hz. The sweep time was then adjusted in order to display one full pulse train. The transmitter on time was then summed and compared to the time for one full cycle in order to obtain the duty cycle. (See plots for additional information)

Transmitter On Time	=	75.67 milliseconds (maximum- worst case in 100 ms)
Transmitter Cycle Time	=	Greater than 100 milliseconds
Transmitter Duty Cycle	=	75.7 %

SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS

Due to the nature of the emissions being measured, care was taken to ensure that the resolution bandwidth of the spectrum analyzer was adequate to provide accurate measurements. The following formula was utilized:

Setting pulse desensitization equal to zero and utilizing the minimum observed pulse width of 75.76 milliseconds yields a minimum required bandwidth of 8.8 Hz. FCC specified bandwidths of 100kHz and 1MHz were utilized below and above 1GHz, respectively.



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**Test Report No. R-8882-1
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REPORT OF MEASUREMENTS (continued)

GENERAL NOTES

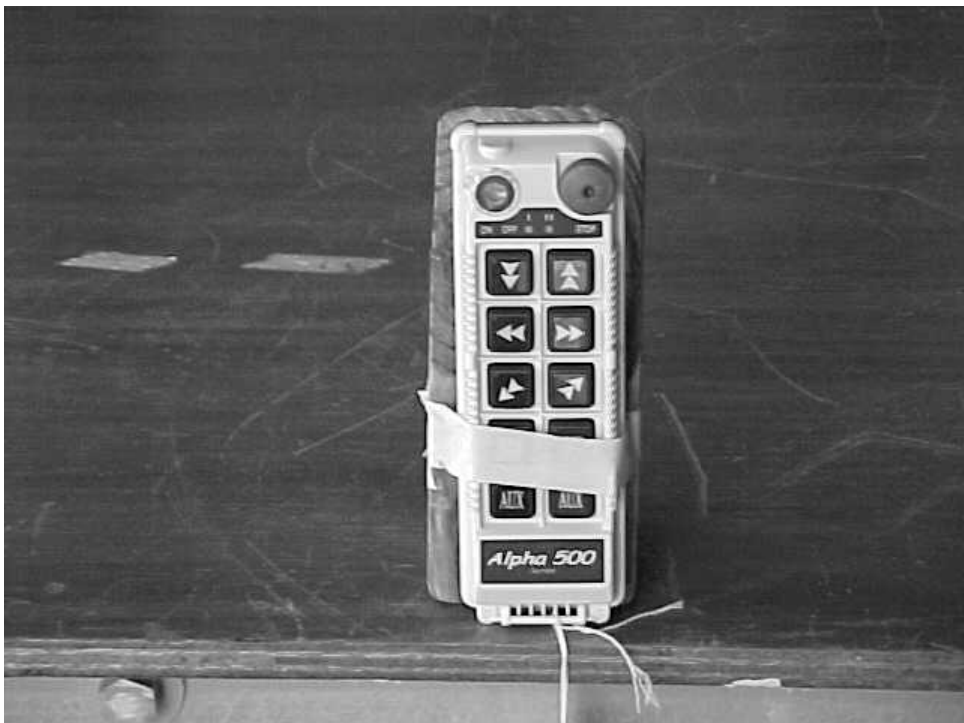
1. All readings were taken utilizing a peak detector function at a test distance of 3 meters.
2. The duty cycle was applied to the peak readings in order to determine the average value of the emissions.
3. All measurements were made with 3 VDC derived from 2 “AA” batteries.
4. The frequency range was scanned from 30 MHz to 4.3 GHz. All emissions not reported were more than 20 dB below the specified limit.



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TEST SETUP PHOTOGRAPH
RADIATED EMISSIONS



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FCC ID: LZ6ALPHA510SERIES**

EQUIPMENT LISTS

Radiated Emissions, Fundamental and Harmonics, 433.25MHz-4332.5MHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	09/20/2000	09/20/2003
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	09/18/2000	09/18/2001
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/13/2000	06/13/2001
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	02/20/2001	08/20/2001
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/13/2000	06/13/2001
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	06/08/2000	06/08/2001
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	06/16/1999	06/16/2001
544	EMC Analyzer	Hewlett Packard	9.0 kHz - 1.8 GHz	8591EM	12/14/2000	12/14/2001
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	01/17/2000	03/17/2001
712	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESI26	03/01/2000	03/01/2001

Radiated Emissions, Spurious Case, 30MHz-4332.5MHz

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	09/20/2000	09/20/2003
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	09/18/2000	09/18/2001
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/13/2000	06/13/2001
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	02/20/2001	08/20/2001
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/13/2000	06/13/2001
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	06/08/2000	06/08/2001
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	06/16/1999	06/16/2001
544	EMC Analyzer	Hewlett Packard	9.0 kHz - 1.8 GHz	8591EM	12/14/2000	12/14/2001
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	01/17/2000	03/17/2001



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**Test Report No. R-8882-1
FCC ID: LZ6ALPHA510SERIES**

FCC 15.209(a)

RADIATED EMISSIONS

(Please see separate e-file attachment named REFundHarm.doc and RESpurious.doc)



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**Test Report No. R-8882-1
FCC ID: LZ6ALPHA510SERIES**

FCC 15.231(c)

OCCUPIED BANDWIDTH

(Please see separate e-file attachment named Occbw.pdf)



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Test Report No. R-8882-1
FCC ID: LZ6ALPHA510SERIES

DUTY CYCLE

(Please see separate e-file attachment named Dutycycle.doc)



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**Test Report No. R-8882-1
FCC ID: LZ6ALPHA510SERIES**

Test Sample Photographs



Retlif Testing Laboratories

Test Report No. R-8882-1
FCC ID: LZ6ALPHA510SERIES

Test Method:	FCC Part 15 Subpart C, Spurious Case Radiated Emissions, Paragraph 15.209(a)		
Customer:	Fomotech International Corp.	Job No.	R-8882-1
Test Sample:	433.25MHz Transmitter		
Model No.:	ALPHA 580	Serial No.	00500001
Operating Mode:	Continuously transmitting a pulsed signal at 433.25MHz.		
Technician:	Peter Lananna	Date:	February 21, 2000


Notes: Test Distance: 3 Meters Temp:10C Humidity:63%
 Detector: Quasi-Peak Below 30 MHz to 1 GHz, Peak above 1 GHz

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Correction Factor	Corrected Reading	Converted Reading	LIMIT
MHz	(V/H) / Meters	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
88.00							100
88.00							150

No emissions detected at specified test distance.

216.00							150
216.00							200
960.00							200
960.00							500
4332.5							500

The EUT was scanned from 30 MHz to 4.3325 GHz
 The emissions observed from the EUT do not exceed the specified limits. Emissions not recorded were more than 10dB under the specified limit

	Retlif Testing Laboratories
	Retlif Job Number R-8882-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	Fomotech International Corp.			Job No.	R-8882-1		
Test Sample:	433.25 Transmitter			Paragraph:	15.231		
Model No.:	ALPHA580			FCC ID:	LZ6ALPHA510SERIES		
Operating Mode:	Continuously Transmitting a 433.25 MHz Signal						
Technician:	Peter Lananna			Date:	February 21, 2001		
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	Peak Limit
MHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
433.25	H / 4.0	X	62.8	-0.6	62.2	1288.2	109700
	H / 1.8	Y	77.5	-0.6	76.9	6998.4	
	H / 2.5	Z	75.3	-0.6	74.7	5432.5	
	V / 1.0	X	80.0	-0.6	79.4	9332.5	
	V / 2.3	Y	71.2	-0.6	70.6	3388.4	
433.25	V / 2.0	Z	72.2	-0.6	71.6	3801.9	109700
866.5	H / 1.0	X	26.9	7.9	34.8	55.0*	10970
	H / 1.0	Y	26.9	7.9	34.8	55.0*	
	H / 1.0	Z	26.9	7.9	34.8	55.0*	
	V / 1.0	X	26.9	7.9	34.8	55.0*	
	V / 1.0	Y	26.9	7.9	34.8	55.0*	
866.5	V / 1.0	Z	26.9	7.9	34.8	55.0*	10970
1299.75	H / 1.0	X	42.3	-3.0	39.3	92.3*	10970
	H / 1.0	Y	42.3	-3.0	39.3	92.3*	
	H / 1.0	Z	42.3	-3.0	39.3	92.3*	
	V / 1.0	X	42.3	-3.0	39.3	92.3*	
	V / 1.0	Y	42.3	-3.0	39.3	92.3*	
1299.75	V / 1.0	Z	42.3	-3.0	39.3	92.3*	10970
1733.0	H / 1.0	X	45.0	2.2	47.2	229.1*	10970
	H / 1.0	Y	45.0	2.2	47.2	229.1*	
	H / 1.0	Z	45.0	2.2	47.2	229.1*	
	V / 1.0	X	45.0	2.2	47.2	229.1*	
	V / 1.0	Y	45.0	2.2	47.2	229.1*	
1733.0	V / 1.0	Z	45.0	2.2	47.2	229.1*	10970
2166.25	H / 1.0	X	41.2	0.8	42.0	125.9*	10970
	H / 1.0	Y	41.2	0.8	42.0	125.9*	
	H / 1.0	Z	41.2	0.8	42.0	125.9*	
	V / 1.0	X	41.2	0.8	42.0	125.9*	
	V / 1.0	Y	41.2	0.8	42.0	125.9*	
2166.25	V / 1.0	Z	41.2	0.8	42.0	125.9*	10970
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-8882-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	Fomotech International Corp.	Job No.:	R-8882-1				
Test Sample:	433.25 Transmitter	Paragraph:	15.231				
Model No.:	ALPHA580	FCC ID:	LZ6ALPHA510SERIES				
Operating Mode:	Continuously Transmitting a 433.25 MHz Signal						
Technician:	Peter Lananna	Date:	February 21, 2001				
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	Peak Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	UV/m
2599.5	H / 1.0	X	32.0	3.8	35.8	61.7*	10970
	H / 1.0	Y	32.0	3.8	35.8	61.7*	
	H / 1.0	Z	32.0	3.8	35.8	61.7*	
	V / 1.0	X	32.0	3.8	35.8	61.7*	
	V / 1.0	Y	32.0	3.8	35.8	61.7*	
2599.5	V / 1.0	Z	32.0	3.8	35.8	61.7*	10970
3032.75	H / 1.0	X	32.1	6.4	38.5	84.1*	10970
	H / 1.0	Y	32.1	6.4	38.5	84.1*	
	H / 1.0	Z	32.1	6.4	38.5	84.1*	
	V / 1.0	X	32.1	6.4	38.5	84.1*	
	V / 1.0	Y	32.1	6.4	38.5	84.1*	
3032.75	V / 1.0	Z	32.1	6.4	38.5	84.1*	10970
3466.0	H / 1.0	X	32.0	8.3	40.3	103.5*	10970
	H / 1.0	Y	32.0	8.3	40.3	103.5*	
	H / 1.0	Z	32.0	8.3	40.3	103.5*	
	V / 1.0	X	32.0	8.3	40.3	103.5*	
	V / 1.0	Y	32.0	8.3	40.3	103.5*	
3466.0	V / 1.0	Z	32.0	8.3	40.3	103.5*	10970
3899.25	H / 1.0	X	31.7	9.1	40.8	109.6*	5000
	H / 1.0	Y	31.7	9.1	40.8	109.6*	
	H / 1.0	Z	31.7	9.1	40.8	109.6*	
	V / 1.0	X	31.7	9.1	40.8	109.6*	
	V / 1.0	Y	31.7	9.1	40.8	109.6*	
3899.25	V / 1.0	Z	31.7	9.1	40.8	109.6*	5000
4332.5	H / 1.0	X	31.2	10.6	41.8	123.0*	5000
	H / 1.0	Y	31.2	10.6	41.8	123.0*	
	H / 1.0	Z	31.2	10.6	41.8	123.0*	
	V / 1.0	X	31.2	10.6	41.8	123.0*	
	V / 1.0	Y	31.2	10.6	41.8	123.0*	
4332.5	V / 1.0	Z	31.2	10.6	41.8	123.0*	5000
	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-8882-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	Fomotech International Corp.	Job No.	R-8882-1				
Test Sample:	433.25 Transmitter	Paragraph:	15.231				
Model No.:	ALPHA580	FCC ID:	LZ6ALPHA510SERIES				
Operating Mode:	Continuously Transmitting a 433.25 MHz Signal						
Technician:	Peter Lananna	Date:	February 21, 2001				
Notes:	Test Distance: 3 Meters		Duty Cycle: 75.7%				
	Detector: Peak, unless otherwise specified		Duty Cycle Correction: - 2.4 dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
433.25	H / 4.0	X	62.2	-2.4	59.8	977.2	10970
	H / 1.8	Y	76.9	-2.4	74.5	5308.8	
	H / 2.5	Z	74.7	-2.4	72.3	4121.0	
	V / 1.0	X	79.4	-2.4	77.0	7079.5	
	V / 2.3	Y	70.6	-2.4	68.2	2570.4	
433.25	V / 2.0	Z	71.6	-2.4	69.2	2884.0	10970
866.5	H / 1.0	X	34.8	-2.4	32.4	41.7*	1097
	H / 1.0	Y	34.8	-2.4	32.4	41.7*	
	H / 1.0	Z	34.8	-2.4	32.4	41.7*	
	V / 1.0	X	34.8	-2.4	32.4	41.7*	
	V / 1.0	Y	34.8	-2.4	32.4	41.7*	
866.5	V / 1.0	Z	34.8	-2.4	32.4	41.7*	1097
1299.75	H / 1.0	X	39.3	-2.4	36.9	70.0*	1097
	H / 1.0	Y	39.3	-2.4	36.9	70.0*	
	H / 1.0	Z	39.3	-2.4	36.9	70.0*	
	V / 1.0	X	39.3	-2.4	36.9	70.0*	
	V / 1.0	Y	39.3	-2.4	36.9	70.0*	
1299.75	V / 1.0	Z	39.3	-2.4	36.9	70.0*	1097
1733.0	H / 1.0	X	47.2	-2.4	44.8	173.8*	1097
	H / 1.0	Y	47.2	-2.4	44.8	173.8*	
	H / 1.0	Z	47.2	-2.4	44.8	173.8*	
	V / 1.0	X	47.2	-2.4	44.8	173.8*	
	V / 1.0	Y	47.2	-2.4	44.8	173.8*	
1733.0	V / 1.0	Z	47.2	-2.4	44.8	173.8*	1097
2166.25	H / 1.0	X	42.0	-2.4	39.6	95.5*	1097
	H / 1.0	Y	42.0	-2.4	39.6	95.5*	
	H / 1.0	Z	42.0	-2.4	39.6	95.5*	
	V / 1.0	X	42.0	-2.4	39.6	95.5*	
	V / 1.0	Y	42.0	-2.4	39.6	95.5*	
2166.25	V / 1.0	Z	42.0	-2.4	39.6	95.5*	1097
The frequency range was scanned from 30 MHz to 4.4 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)							



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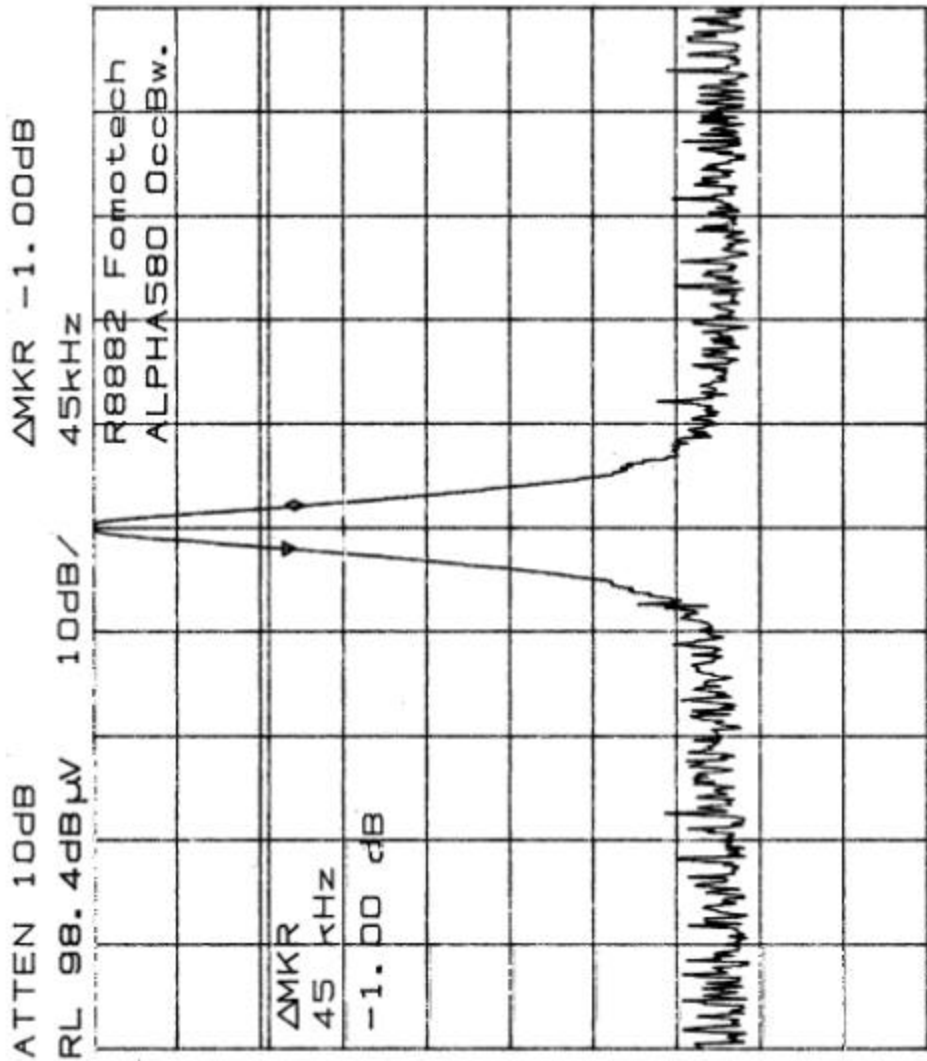
Retlif Job Number R-8882-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	Fomotech International Corp.	Job No.:	R-8882-1				
Test Sample:	433.25 Transmitter	Paragraph:	15.231				
Model No.:	ALPHA580	FCC ID:	LZ6ALPHA510SERIES				
Operating Mode:	Continuously Transmitting a 433.25 MHz Signal						
Technician:	Peter Lananna	Date:	February 21, 2001				
Notes:	Test Distance: 3 Meters		Duty Cycle: 75.7%				
	Detector: Peak, unless otherwise specified		Duty Cycle Correction: - 2.4dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2599.5	H / 1.0	X	35.8	-2.4	33.4	46.8*	1097
	H / 1.0	Y	35.8	-2.4	33.4	46.8*	
	H / 1.0	Z	35.8	-2.4	33.4	46.8*	
	V / 1.0	X	35.8	-2.4	33.4	46.8*	
	V / 1.0	Y	35.8	-2.4	33.4	46.8*	
2599.5	V / 1.0	Z	35.8	-2.4	33.4	46.8*	1097
3032.75	H / 1.0	X	38.5	-2.4	36.1	63.8*	1097
	H / 1.0	Y	38.5	-2.4	36.1	63.8*	
	H / 1.0	Z	38.5	-2.4	36.1	63.8*	
	V / 1.0	X	38.5	-2.4	36.1	63.8*	
	V / 1.0	Y	38.5	-2.4	36.1	63.8*	
3032.75	V / 1.0	Z	38.5	-2.4	36.1	63.8*	1097
3466.0	H / 1.0	X	40.3	-2.4	37.9	78.5*	1097
	H / 1.0	Y	40.3	-2.4	37.9	78.5*	
	H / 1.0	Z	40.3	-2.4	37.9	78.5*	
	V / 1.0	X	40.3	-2.4	37.9	78.5*	
	V / 1.0	Y	40.3	-2.4	37.9	78.5*	
3466.0	V / 1.0	Z	40.3	-2.4	37.9	78.5*	1097
3899.25	H / 1.0	X	40.8	-2.4	38.4	83.2*	500
	H / 1.0	Y	40.8	-2.4	38.4	83.2*	
	H / 1.0	Z	40.8	-2.4	38.4	83.2*	
	V / 1.0	X	40.8	-2.4	38.4	83.2*	
	V / 1.0	Y	40.8	-2.4	38.4	83.2*	
3899.25	V / 1.0	Z	40.8	-2.4	38.4	83.2*	500
4332.5	H / 1.0	X	41.8	-2.4	39.4	93.3*	500
	H / 1.0	Y	41.8	-2.4	39.4	93.3*	
	H / 1.0	Z	41.8	-2.4	39.4	93.3*	
	V / 1.0	X	41.8	-2.4	39.4	93.3*	
	V / 1.0	Y	41.8	-2.4	39.4	93.3*	
4332.5	V / 1.0	Z	41.8	-2.4	39.4	93.3*	500
The frequency range was scanned from 30 MHz to 4.4 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-8882-1



CENTER 433.250MHZ SPAN 1.080MHZ
 *RBW 10kHz VBW 30kHz SWP 50.0ms

Customer: Fomotech International Corp.
 Test Sample: 433.25MHz Pulsed Transmitter
 Model No.: ALPHA 580
 Test Method: FCC15.231(c) Occupied Bandwidth
 Note: FCC ID: L26ALPHA580 SERIES
 (Emission is less than 0.25% of carrier frequency, measured 20dB(c) from the modulated carrier.)

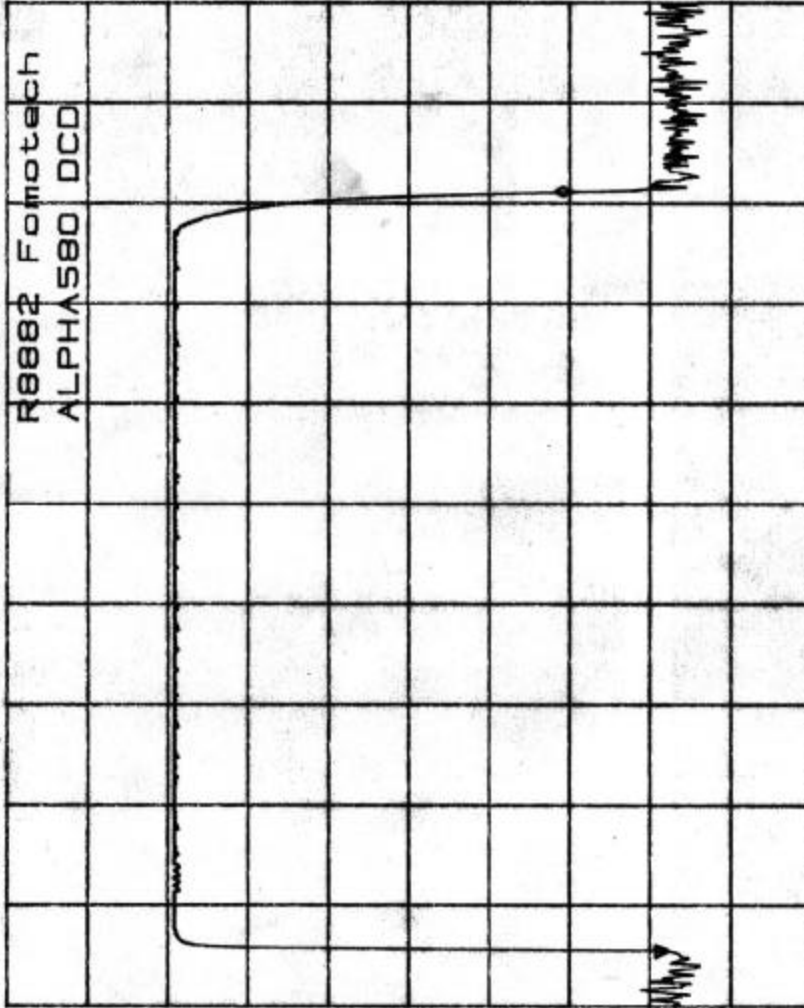
Date: February 21, 2001 Tech: Peter Lanning Sheet: 1 of 1



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Report No. 8882-1

ATTEN 30dB
RL 120.0dB μ V 10dB/
 Δ MKR 11.83dB
75.67ms



CENTER 433.250000MHZ SPAN 0HZ
*RBW 10kHz VBW 30kHz *SWP 100ms

Customer: Fomotech International Corp.
Test Sample: 433.25MHz Pulsed Transmitter
Model No: ALPHA 580
Test Method: FCC 15.20(c) Duty Cycle Determination.
Notes: FCC 10. - L26ALPHA580 SERIES
Worst case pulse per 100milliseconds=75.67%
20log(0.757)=-2.4dB

Date: February 21, 2001 Tech: Peter Linnarss Sheet 1 of 1



Retlif Testing Laboratories

Report No. 8882-1