849 NW State Road 45 Newberry, Florida 32669 http://www.timcoengr.com 888.472.2424 F 352.472.2030 email: tei@timcoengr.com



Test Report

Product Name: 433.92MHz RFID TRANSMITTER

FCC ID: RUQ2579

Applicant:

SCANPAK
2250 PLACE TRANSCANADIENNE
DORVAL QUEBEC H9P 2X5
CANADA

Date Receipt: 1/25/2006

Date Tested: 1/26/2006

APPLICANT: SCANPAK FCC ID: RUQ2579

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FCC ID: RUQ2579

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EXHIBIT INCLUDING:

BLOCK DIAGRAM
SCHEMATIC
PARTS LIST
INSTRUCTION MANUAL
LABEL SAMPLE
LABEL LOCATION
EXTERNAL PHOTOGRAPHS
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OPERATIONAL DESCRIPTION
TEST SET UP PHOTOGRAPH

APPLICANT: SCANPAK FCC ID: RUQ2579

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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char	Due Date
3-Meter OATS	TEI	N/A	Number N/A	Date Listed 1/13/03	1/12/06
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 12/7/05	12/7/07
Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 12/7/05	12/7/07
Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 12/8/05	12/8/07
Tan Tower Preamplifier	HP	8449В-Н02	3008A00372	CAL 12/8/05	12/8/07
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
Blue Tower RF Preselector	НР	85685A	2926A00983	CAL 9/5/05	9/5/07
Blue Tower Quasi-Peak Adapter	НР	85650A	2811A01279	CAL 4/13/05	4/13/07
Silver Tower Spectrum Analyzer	НР	8566B Opt 462	3552A22064 3638A08608	CAL 12/8/04	12/8/06
Silver Tower RF Preselector	HP	85685A	2620A00294	CAL 4/27/04	4/27/06
Silver Tower Quasi-Peak Adapter	HP	85650A	3303A01844	CAL 12/8/04	12/8/06
Open-Frame Tower Preamplifier	HP	8449B	3008A01075	CAL 8/8/05	8/8/07
Biconnical Antenna	Electro- Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Log-Periodic Antenna	Electro- Metrics	LPA-25	1122	CAL 8/26/04	8/26/06

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz. The ambient temperature of the UUT was 78.3°F with a humidity of 40%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The UUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

Measurements were made by TIMCO ENGINEERING INC. at the registered open field test site located at 849 N.W. State Road 45, Newberry, Fl 32669.

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APPLICANT: SCANPAK

FCC ID: RUQ2579
NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.231

REQUIREMENTS:

Fundamental	Field Strength	Field Strength of			
Frequency	of Fundamental	Harmonics and Spurious			
MHz	dBuV	Emissions (dBuV/m @ 3m)			
40.66 to 40.70	67.04	47.04			
70 to 130	61.94	41.94			
130 to 174	61.94 to 71.48	41.94 to 51.48			
174 to 260	71.48	51.48			
260 to 470	71.48 to 81.94	51.48 to 61.94			
470 and above	81.94	61.94			

THE LIMIT FOR AVERAGE FIELD STRENGTH dBuV/m FOR THE FUNDAMENTAL FREQUENCY = 80.83 dBuV/m. NO FUNDAMENTAL IS ALLOWED IN THE RESTRICTED BANDS.

THE LIMIT FOR AVERAGE FIELD STRENGTH dBuV/m FOR THE HARMONICS AND SPURIOUS FREQUENCIES = 60.83 dBuV/m. SPURIOUS IN THE RESTRICTED BANDS MUST BE LESS THAN 54 dBuV/m OR 15.209.

TEST DATA:

rv.								
Emission	*	Meter	Ant.	Coax	ACF	Duty Cycle	Field	Margin
Frequency		Reading	Pol.	Loss	đВ	Factor	Strength	đВ
\mathtt{MHz}		dBuV		đВ		dВ	dBuV/m	
433.92		63.2	V	3.24	16.40	11.30	71.54	9.29
433.92		69.2	H	3.24	16.76	11.30	77.90	2.93
867.84		29.3	V	4.87	22.48	11.30	45.35	15.48
867.84		32.7	H	4.87	22.86	11.30	49.13	11.70
1,301.76	**	25.6	V	1.35	28.00	11.30	43.65	10.35
1,301.76	**	30.5	H	1.35	28.00	11.30	48.55	5.45
1,735.68		22.2	V	1.57	29.70	11.30	42.17	18.66
1,735.68		26.5	H	1.57	29.70	11.30	46.47	14.36
2,169.60		27.2	V	1.77	31.94	11.30	49.61	11.22
2,169.60		27.7	H	1.77	31.94	11.30	50.11	10.72
2,603.52		23.1	V	1.94	32.77	11.30	46.51	14.31
2,603.52		27.9	H	1.94	32.77	11.30	51.31	9.51
3,037.44		19.4	V	2.11	33.39	11.30	43.60	17.22
3,037.44		20.2	H	2.11	33.39	11.30	44.40	16.42
3,471.36		13.8	V	2.24	33.31	11.30	38.05	22.77
3,471.36		19.0	H	2.24	33.31	11.30	43.25	17.57
3,905.28	**	15.9	V	2.37	33.79	11.30	40.76	13.24
3,905.28	**	17.5	H	2.37	33.79	11.30	42.36	11.64
4,339.20	**	10.9	V	2.50	34.44	11.30	36.54	17.46
4,339.20	**	11.5	H	2.50	34.44	11.30	37.14	16.86
433.92		61.0	V	3.24	16.40	11.30	69.44	11.39
	Emission Frequency MHz 433.92 433.92 867.84 867.84 1,301.76 1,301.76 1,735.68 2,169.60 2,169.60 2,169.60 2,603.52 2,603.52 3,037.44 3,471.36 3,471.36 3,905.28 4,339.20 4,339.20	Emission * Frequency MHz 433.92 433.92 867.84 867.84 1,301.76 ** 1,301.76 ** 1,735.68 1,735.68 2,169.60 2,169.60 2,603.52 2,603.52 3,037.44 3,471.36 3,471.36 3,905.28 ** 4,339.20 **	Emission * Meter Frequency MHz dBuV 433.92 63.2 433.92 69.2 867.84 29.3 867.84 32.7 1,301.76 ** 25.6 1,301.76 ** 30.5 1,735.68 22.2 1,735.68 26.5 2,169.60 27.2 2,169.60 27.7 2,603.52 23.1 2,603.52 23.1 2,603.52 27.9 3,037.44 19.4 3,037.44 20.2 3,471.36 13.8 3,471.36 13.8 3,471.36 19.0 3,905.28 ** 15.9 3,905.28 ** 17.5 4,339.20 ** 10.9 4,339.20 ** 11.5	Emission * Meter Ant. Frequency Reading Pol. MHz dBuV 433.92 63.2 V 433.92 69.2 H 867.84 29.3 V 867.84 32.7 H 1,301.76 ** 25.6 V 1,301.76 ** 30.5 H 1,735.68 22.2 V 2,169.60 27.2 V 2,169.60 27.2 V 2,169.60 27.7 H 2,603.52 23.1 V 2,603.52 23.1 V 2,603.52 27.9 H 3,037.44 19.4 V 3,037.44 19.4 V 3,037.44 20.2 H 3,471.36 13.8 V 3,471.36 13.8 V 3,471.36 19.0 H 3,905.28 ** 15.9 V 4,339.20 ** 10.9 V 4,339.20 ** 11.5 H	Emission * Meter Ant. Coax Reading Pol. Loss dB MHz dBuV dB 433.92 63.2 V 3.24 433.92 69.2 H 3.24 867.84 29.3 V 4.87 867.84 32.7 H 4.87 1,301.76 ** 25.6 V 1.35 1,301.76 ** 30.5 H 1.35 1,735.68 22.2 V 1.57 2,169.60 27.2 V 1.77 2,603.52 23.1 V 1.94 2,603.52 27.9 H 1.94 3,037.44 19.4 V 2.11 3,471.36 13.8 V 2.24 3,471.36 13.8 V 2.24 3,905.28 ** 15.9 V 2.37 4,339.20 ** 10.9 V 2.50 4,339.20 ** 11.5 H 2.50 <td>Emission * Meter Ant. Coax ACF Frequency Reading ABUV Pol. Loss dB MHz dBUV dB 433.92 63.2 V 3.24 16.40 433.92 69.2 H 3.24 16.76 867.84 29.3 V 4.87 22.48 867.84 32.7 H 4.87 22.86 1,301.76 ** 25.6 V 1.35 28.00 1,301.76 ** 30.5 H 1.35 28.00 1,735.68 22.2 V 1.57 29.70 2,169.60 27.2 V 1.77 31.94 2,169.60 27.7 H 1.77 31.94 2,603.52 23.1 V 1.94 32.77 3,037.44 19.4 V 2.11 33.39 3,471.36 13.8 V 2.24 33.31 3,905.28 ** 15.9 V 2.37 33.79 4,339.20 ** 10.9 V 2.50 34.44 4,339.20 ** 11.5 H 2.50 34.44</td> <td>Emission * Meter Ant. Coax ACF Duty Cycle Frequency Reading Pol. Loss dB Factor MHz dBuV dB dB 433.92 63.2 V 3.24 16.40 11.30 433.92 69.2 H 3.24 16.76 11.30 867.84 29.3 V 4.87 22.48 11.30 867.84 32.7 H 4.87 22.86 11.30 1,301.76 ** 25.6 V 1.35 28.00 11.30 1,301.76 ** 30.5 H 1.35 28.00 11.30 1,735.68 22.2 V 1.57 29.70 11.30 1,735.68 26.5 H 1.57 29.70 11.30 2,169.60 27.7 H 1.77 31.94 11.30 2,603.52 23.1 V 1.94 32.77 11.30 3,037.44 19.4</td> <td>Emission * Meter Reading Pol. Ant. Coax Loss dB ACF GB Duty Cycle GB Field Strength GBuV/m MHz dBuV dB dB dB dBuV/m 433.92 63.2 V 3.24 16.40 11.30 71.54 433.92 69.2 H 3.24 16.76 11.30 77.90 867.84 29.3 V 4.87 22.48 11.30 45.35 867.84 32.7 H 4.87 22.86 11.30 49.13 1,301.76 ** 25.6 V 1.35 28.00 11.30 48.55 1,735.68 22.2 V 1.57 29.70 11.30 46.47 2,169.60 27.2 V 1.77 31.94 11.30 49.61 2,603.52 23.1 V 1.94 32.77 11.30 46.51 2,603.52 27.9 H 1.94 32.77 11.30 46.51 2,603.52 27.9</td>	Emission * Meter Ant. Coax ACF Frequency Reading ABUV Pol. Loss dB MHz dBUV dB 433.92 63.2 V 3.24 16.40 433.92 69.2 H 3.24 16.76 867.84 29.3 V 4.87 22.48 867.84 32.7 H 4.87 22.86 1,301.76 ** 25.6 V 1.35 28.00 1,301.76 ** 30.5 H 1.35 28.00 1,735.68 22.2 V 1.57 29.70 2,169.60 27.2 V 1.77 31.94 2,169.60 27.7 H 1.77 31.94 2,603.52 23.1 V 1.94 32.77 3,037.44 19.4 V 2.11 33.39 3,471.36 13.8 V 2.24 33.31 3,905.28 ** 15.9 V 2.37 33.79 4,339.20 ** 10.9 V 2.50 34.44 4,339.20 ** 11.5 H 2.50 34.44	Emission * Meter Ant. Coax ACF Duty Cycle Frequency Reading Pol. Loss dB Factor MHz dBuV dB dB 433.92 63.2 V 3.24 16.40 11.30 433.92 69.2 H 3.24 16.76 11.30 867.84 29.3 V 4.87 22.48 11.30 867.84 32.7 H 4.87 22.86 11.30 1,301.76 ** 25.6 V 1.35 28.00 11.30 1,301.76 ** 30.5 H 1.35 28.00 11.30 1,735.68 22.2 V 1.57 29.70 11.30 1,735.68 26.5 H 1.57 29.70 11.30 2,169.60 27.7 H 1.77 31.94 11.30 2,603.52 23.1 V 1.94 32.77 11.30 3,037.44 19.4	Emission * Meter Reading Pol. Ant. Coax Loss dB ACF GB Duty Cycle GB Field Strength GBuV/m MHz dBuV dB dB dB dBuV/m 433.92 63.2 V 3.24 16.40 11.30 71.54 433.92 69.2 H 3.24 16.76 11.30 77.90 867.84 29.3 V 4.87 22.48 11.30 45.35 867.84 32.7 H 4.87 22.86 11.30 49.13 1,301.76 ** 25.6 V 1.35 28.00 11.30 48.55 1,735.68 22.2 V 1.57 29.70 11.30 46.47 2,169.60 27.2 V 1.77 31.94 11.30 49.61 2,603.52 23.1 V 1.94 32.77 11.30 46.51 2,603.52 27.9 H 1.94 32.77 11.30 46.51 2,603.52 27.9

APPLICANT: SCANPAK FCC ID: RUQ2579

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FCC ID: RUQ2579

TEST DATA CONTD.

	IA CONID.							_	
Tuned	Emission	*	Meter	Ant.	Coax	ACF	Duty Cycle	Field	Margin
Frequency	Frequency		Reading	Pol.	Loss	đВ	Factor	Strength	dВ
MHz	MHz		dBuV		đВ		dB	dBuV/m	
433.9	433.92		66.7	H	3.24	16.76	11.30	75.40	5.43
433.9	867.84		25.4	V	4.87	22.48	11.30	41.45	19.38
433.9	867.84		30.2	H	4.87	22.86	11.30	46.63	14.20
433.9	1,301.76	**	26.9	H	1.35	28.00	11.30	44.95	9.05
433.9	1,301.76	**	27.4	V	1.35	28.00	11.30	45.45	8.55
433.9	1,735.68		22.2	V	1.57	29.70	11.30	42.17	18.66
433.9	1,735.68		23.9	H	1.57	29.70	11.30	43.87	16.96
433.9	2,169.60		26.8	H	1.77	31.94	11.30	49.21	11.62
433.9	2,169.60		28.7	V	1.77	31.94	11.30	51.11	9.72
433.9	2,603.52		23.9	H	1.94	32.77	11.30	47.31	13.51
433.9	2,603.52		24.0	V	1.94	32.77	11.30	47.41	13.41
433.9	3,037.44		17.4	V	2.11	33.39	11.30	41.60	19.22
433.9	3,037.44		21.6	H	2.11	33.39	11.30	45.80	15.02
433.9	3,471.36		16.4	V	2.24	33.31	11.30	40.65	20.17
433.9	3,471.36		17.0	H	2.24	33.31	11.30	41.25	19.57
433.9	3,905.28	**	14.7	H	2.37	33.79	11.30	39.56	14.44
433.9	3,905.28	**	17.6	V	2.37	33.79	11.30	42.46	11.54
433.9	4,339.20	**	12.2	V	2.50	34.44	11.30	37.84	16.16
433.9	4,339.20	**	13.5	H	2.50	34.44	11.30	39.14	14.86
433.9	433.92		65.8	v	3.24	16.40	11.30	74.14	6.69
433.9	433.92		68.2	H	3.24	16.76	11.30	76.90	3.93
433.9	867.84		31.1	v	4.87	22.48	11.30	47.15	14.79
433.9	867.84		33.8	H	4.87	22.86	11.30	50.23	11.71
433.9	1,301.76	**	26.4	V	1.35	28.00	11.30	44.45	9.55
433.9	1,301.76	**	27.5	H	1.35	28.00	11.30	45.55	8.45
433.9	1,735.68		22.2	H	1.57	29.70	11.30	42.17	19.77
433.9	1,735.68		24.9	v	1.57	29.70	11.30	44.87	17.07
433.9	2,169.60		22.2	v	1.77	31.94	11.30	44.61	17.33
433.9	2,169.60		30.1	H	1.77	31.94	11.30	52.51	9.43
433.9	2,603.52		26.6	v	1.94	32.77	11.30	50.01	11.93
433.9	2,603.52		29.4	H	1.94	32.77	11.30	52.81	9.13
433.9	3,037.44		16.1	H	2.11	33.39	11.30	40.30	21.64
433.9	3,037.44		17.5	V	2.11	33.39	11.30	41.70	20.24
433.9	3,471.36		15.6	v	2.24	33.31	11.30	39.85	22.09
433.9	3,471.36		19.5	H	2.24	33.31	11.30	43.75	18.19
433.9	3,905.28	**	15.1	v	2.37	33.79	11.30	39.96	14.04
433.9	3,905.28	**	17.0	н	2.37	33.79	11.30	41.86	12.14
433.9	4,339.20	**	12.3	н	2.50	34.44	11.30	37.94	16.06
433.9	4,339.20	**	12.7	v	2.50	34.44	11.30	38.34	15.66
	,			-		-			

APPLICANT: SCANPAK FCC ID: RUQ2579

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APPLICANT: SCANPAK

FCC ID: RUQ2579

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.231

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

- 1) for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F)-6136.3636;
- 2) for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F)-7083.3333.

SAMPLE CALCULATION OF LIMIT @ 433.92 MHz:

41.6667 (433.92) - 7083.3333 = 10,996.68 uV/m $20\log(10,996.68) = 80.83\text{dBuV/m limit @ }433.92 \text{ MHz}$

PERFORMED BY: NAM NGUYEN DATE TESTED: FEBRUARY 6, 2006

APPLICANT: SCANPAK FCC ID: RUQ2579

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APPLICANT: SCANPAK

FCC ID: RUQ2579

CALCULATION OF DUTY CYCLE:

The period of the pulse train is determined by observing it on an oscilloscope or a spectrum analyzer with zero (0) frequency span. A plot is then made of the pulse train with a sweep time of 100 milliseconds. This sweep determines the duration of the pulse train, which in this case is millisecond. This sweep allows the determination of the number of and type of pulses, i.e. long & short. Plots are then made showing the duration of each type of pulse and its duration. From the 100 millisecond Plot, the number of a given type of pulse is then multiplied by the duration of that type pulse. This allows the calculation of the amount of time the UUT is on within 100 ms. If the pulse train is longer than 100 ms then this number is multiplied by 100 to determine the percentage ON TIME. If the pulse train is less than 100 ms the total on time is divided by the length of the pulse train and then multiplied by 100 to determine the percentage ON TIME. In this case there were 15 short pulses 250 us long and 10 long pulses 1 ms long for a total of 13.75 ms ON TIME within a 50.7 ms pulse train. The average field strength is determined by multiplying the peak field strength by the percent on time.

dB = 20*log(ON TIME)/PERIOD dB = 20*log(13.75/50.7) dB = 20*log(0.27) dB = -11.3

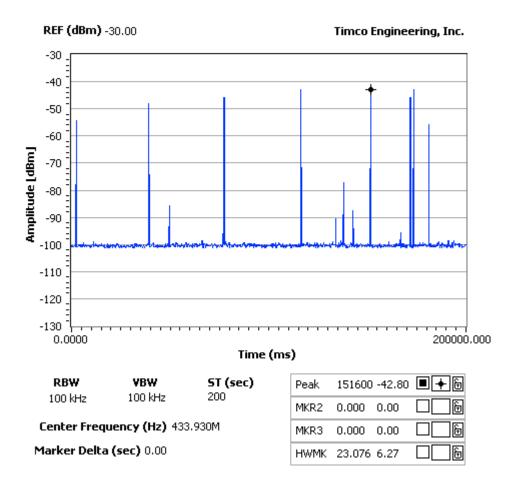
APPLICANT: SCANPAK FCC ID: RUQ2579

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DUTY CYCLE PLOT

NOTES:

SCANPAK - FCC ID: RUQ2579

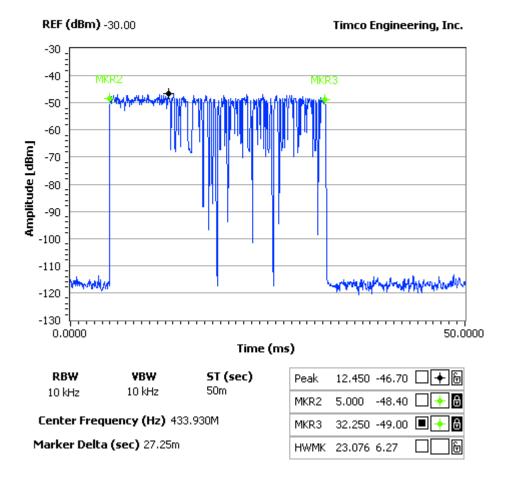


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DUTY CYCLE PLOT

NOTES: SCANPAK - FCC ID: RUQ2579 DUTY CYCLE PLOT -

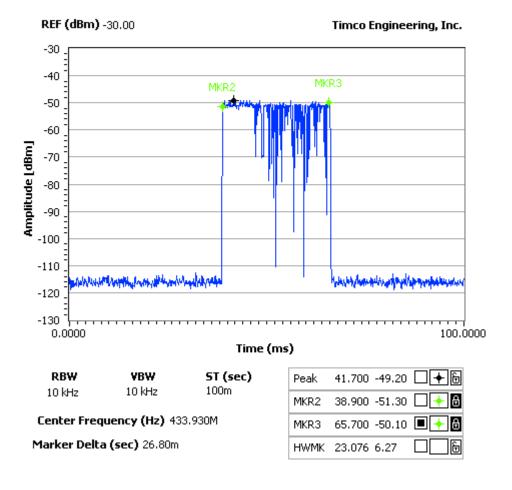


APPLICANT: SCANPAK FCC ID: RUQ2579

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DUTY CYCLE PLOT

NOTES: SCANPAK - FCC ID: RUQ2579 DUTY CYCLE PLOT -



APPLICANT: SCANPAK FCC ID: RUQ2579

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APPLICANT: SCANPAK

FCC ID: RUQ2579

NAME OF TEST: Occupied Bandwidth

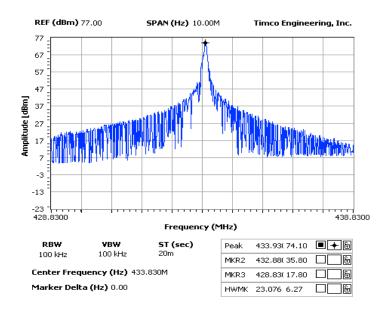
RULES PART NO.: 15.231(C)

REQUIREMENTS: The bandwidth of the emission shall be no wider than .25% of

the center frequency for devices operating between 70 and 900 MHz. Bandwidth is determined at the points 20 dB down from

the modulated carrier.

NOTES:



METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the following plot was generated. The vertical scale is set to 10 dB per division: the horizontal scale is set to 100 kHz per division.

APPLICANT: SCANPAK FCC ID: RUQ2579