



849 NW State Road 45
PO Box 370
Newberry, FL 32669

TEST REPORT

STANDARD (s):

**FCC Part 15, Subparts B, C, and D
IC RSS-213 & ICES-003
UPCS / LE-PCS Isochronous Device
Base & Handset: 1921.536 – 1928.448 MHz
ANSI C63.17 - 1998 (or 2005 Draft where applicable)
ANSI C63.4 – 2003**

APPLICANT:

ASCALADE TECHNOLOGIES INC.
12051 RIVERSIDE WAY
RICHMOND, B.C. V6W 1K7, CANANDA
Tel.: 1-604-241-7991
Mr. Kevin Yau, Quality Manager

MODEL NUMBER:

DECT225XY/ZZ and DECT221XY/ZZ (Base & Handset)
DECT221C (Handset Charger)

**DESCRIPTION OF
PRODUCT:**

1.9 GHz Cordless DECT Telephone

FCC IDs:

PBWDT19R36 (Base - Ascalade), PBWDT19R36H –
(Handset – Ascalade)

IC:

3842A– DECT225 (Ascalade)

DATE SAMPLE

RECEIVED FOR TESTING: 7/28/05

DATE TESTED:

8/12-8/15/2005

TEST RESULTS:

☒ PASS ☐ FAIL

PLEASE NOTE: THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.

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FCC ID: PBWDT19R36H

MODEL #: DECT225

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1 GENERAL INFORMATION

The test results relate only to the items tested.

1.1 COMPLIANCE STATEMENT:

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards. No modifications were made to the equipment during testing in order to demonstrate compliance with these standards.

I attest that the necessary measurements were made, under my supervision, at TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45, Newberry, Florida 32669.

Authorized Signatory Name: BRUNO CLAVIER

Signature: <ON FILE>

Function: CHIEF ENGINEER

Date: 8/12/2005

Test engineer name: NAM NGUYEN

Signature: <ON FILE>

Date: 8/12/2005

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1.2 EQUIPMENT UNDER TEST SPECIFICATION

Characterization of test item:

Prototype ☒
 Pre-production ☐
 Production ☐

Construction of equipment:

☒ Single unit
☐ Multiple units (If multiple units describe each one clearly)

TYPE OF EQUIPMENT:

Fixed ☐
 Mobile ☐
 Portable Station ☐

X	Transmitter		Simplex	X	Integral antenna (Handset and Base)
	Receiver	X	Duplex		Single antenna connector
	Transceiver				Two antenna connector
X	Battery charger				Vehicle battery adaptor
	Remote Control Head				

1.2.1 TRANSMITTER TECHNICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS (Method of frequency generation):

CRYSTAL ☐ SYNTHESIZER ☒ OTHER ☐

State the maximum number of channels over which the equipment can operate: _____

MAXIMUM RATED TRANSMITTER OUTPUT POWER: 70mW for the Base and 72mW for the Handset.

1.2.2 POWER SOURCE (S)

AC SUPPLY: State voltage: _____ Single phase: ____ Three phase: ____

AC SUPPLY FREQUENCY (Hz) _____

EXTERNAL DC SUPPLY: Nominal voltage __2.4VDC NiMH rechargeable battery for Handset and 9VDC via a power adapter for Base

BATTERY: Nickel Cadmium ☐ Lead acid ☐ Leclanche ☐ Lithium ☐

1.3 RATIONAL FOR SELECTING TEST CONFIGURATION(S):

No deviation from technical specifications

1.4 DESCRIPTION ON HOW THE EUT WAS EXERCISED DURING TESTING:

(e.g software description, test signal, etc.)

The EUT was set in continuous transmit mode of operation.

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1.5 TEST STANDARDS

FCC Part 15, Subparts B, C, and D
IC RSS-213 & ICES-003
UPCS / LE-PCS Isochronous Device
Base & Handset: 1921.536 – 1928.448 MHz
ANSI C63.17 - 1998 (or 2005 Draft where applicable)
ANSI C63.4 - 2003

2 TEST ENVIRONEMENT

Temperature

Normal test temperature (Tnom): 22 °C
Extreme test temperatures (Tmax): n/a °C
(Tmin): n/a °C

Relative Humidity 50 %

Details of power supply

Normal test voltage Handset (Vnom): 2.4___VDC
Base (Vnom): 9___VDC (from adapter)

Extreme test voltage (Vmax):___VDC
(Vmin): ___VDC

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3 TEST RESULTS

3.1 RADIATED PEAK TRANSMIT POWER

Clause: 15.319 (c)

Test procedure: ANSI C63.17 section 6.1.2

Technical requirements/Limits:

The peak transmit power shall not exceed 100 μ W multiplied by the square root of the emission bandwidth in hertz measured at 26dBc.

The measured emissions bandwidth is 1.5 MHz max

$$\text{Limit} = 100\mu\text{W} * \sqrt{(\text{BW in Hz})} = 0.122\text{W} = 20.8 \text{ dBm}$$

and Radiated limit $\leq 118 \text{ dB}\mu\text{V/m}$ at 3m by radiated measurement derived from Friis formula as follows $P = (E*d)^2/30G$, where $P = 0.122 \text{ W} = 20.8 \text{ dBm}$

This assumes a $G = \text{Numeric gain of TX antenna} = 1.585$ (2.0 dBi) worst-case across band
 $d = 3 \text{ m}$

Notes: The calculated limit of 118 dB μ V/m assumes free space conditions. This device was measured on a typical test site (OATS) with a reference ground plane as described in ANSI C63.4. This maximum value was obtained with the EUT set up at a height of 80cm. Placing the EUT at a height of 100cm reduces the maximum amplitude measured by about 3-4dB.

Test Conditions:

Power output measurements were performed on an Open Area Test Site at a distance of 3meter. The antenna for this device is integral.

SA Settings:

RBW $\geq$ Emission BW (or increased until no more than 0.5 dB change in power), VBW $\geq 3 \times$ RBW

Span = zero, centered on channel center, Sweep: fast enough to resolve transmit pulse

Detection: Peak

Results:

3.1.1 BASE:

BASE		Ascalade Technologies Inc.				
1589UT5		8/5/2005				
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m
1,921.50	1,921.54	77.7	V	2.84	30.73	111.27
1,921.50	1,921.54	81.3	H	2.84	30.73	114.87
1,928.50	1,928.45	77.2	V	2.84	30.77	110.81
1,928.50	1,928.45	80.5	H	2.84	30.77	114.11

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3.1.2 HANDSET:

HANDSET	Ascalade Technologies Inc.					
1588AUT5	8/5/2005					
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m
1,921.50	1,921.54	83.4	V	2.84	30.73	116.97
1,921.50	1,921.54	77.9	H	2.84	30.73	111.47
1,928.50	1,928.45	82	V	2.84	30.77	115.61
1,928.50	1,928.45	79	H	2.84	30.77	112.61

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TRANSMITTER SPURIOUS EMISSIONS

Clause: 15.319 (g) and 15.323(d)

Test procedure: ANSI C63.17 section 6.1.1

Technical requirements/Limits:

15.319(g) Not withstanding other technical requirements specified in this subpart, attenuation of emissions below the general emission limits in Section 15.209 is not required.

15.323(d) Emissions outside the sub-band shall be attenuated below a reference power of 112 milliwatts as follows: 30 dB between the sub-band and 1.25 MHz above or below the sub-band; 50 dB between 1.25 and 2.5 MHz above or below the sub-band; and 60 dB at 2.5 MHz or greater above or below the subband. Compliance with the emission limits is based on the use of measurement instrumentation employing peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

Test Conditions:

Lowest and Highest channel only. Radiated on an Open Area Test Site at a distance of 3meter.

Results:

3.1.3 BASE:

BASE	Ascalade Technologies Inc.						
1589UT5	8/5/2005						
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax & Filter Loss dB	Correction Factor dB/m	Field Strength dBuV/m	dBc
1,921.50	3843.08	5.7	V	5.5	33.57	44.77	70.1
1,921.50	3843.08	8.3	H	5.5	33.57	47.37	67.5
1,921.50	5764.62	6.1	V	8.23	35.42	49.75	65.12
1,921.50	5764.62	7.4	H	8.23	35.42	51.05	63.82
1,928.50	3856.9	7.5	V	5.67	33.59	46.76	67.35
1,928.50	3856.9	8.2	H	5.67	33.59	47.46	66.65
1,928.50	5785.35	6.2	V	8.6	35.44	50.24	63.87
1,928.50	5785.35	6.9	H	8.6	35.44	50.94	63.17

- The limit for all harmonic emissions are = 60dBc.

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3.1.4 HANDSET:

HANDSET	Ascalade Technologies Inc.						
1588AUT5	8/5/2005						
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax & Filter Loss dB	Correction Factor dB/m	Field Strength dBuV/m	dBc
1,921.50	3843.08	5.7	V	5.5	33.57	44.77	72.2
1,921.50	3843.08	6.4	H	5.5	33.57	45.47	71.5
1,921.50	5764.62	3.3	V	8.23	35.42	46.95	70.02
1,921.50	5764.62	5.2	H	8.23	35.42	48.85	68.12
1,928.50	3856.9	5.0	V	5.67	33.59	44.26	71.35
1,928.50	3856.9	7.0	H	5.67	33.59	46.26	69.35
1,928.50	5785.35	4.7	H	8.6	35.44	48.74	66.87
1,928.50	5785.35	5.6	V	8.6	35.44	49.64	65.97

- The limit for all harmonic emissions are = 60dBc.

3.2 GENERAL RADIATED SPURIOUS EMISSIONS

3.2.1 RADIATED SPURIOUS EMISSIONS

Clause: 15.109, 15.33, and 15.31

Test procedure: ANSI C63.4 - 2003

Technical requirements/Limits:

Emission Frequency (MHz)	Field Strength		At Distance (m)	Detector Type
	(μ V/m)	(dB μ V/m)		
0.009 – 0.490	2400/f (kHz)	67.6 / kHz	300	AV (9-90 kHz, 110-490 kHz) QP (others)
0.490 – 1.705	24000/f (kHz)	87.6 / kHz	30	QP
1.705 – 30.0	30	29.5	30	QP
30 – 88	100	40	3	QP
88 – 216	150	43.5	3	QP
216 – 960	200	46	3	QP
> 960	500	54	3	AV (> 1GHz)

Test Conditions:

Lowest and Highest channel only. Radiated on an Open Area Test Site at a distance of 3meter.

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PK: RBW $\geq$ 100 kHz for $f < 1$ GHz, 1 MHz for $f \geq 1$ GHz, VBW $\geq$ RBW

Avg: RBW = 1 MHz for $f \geq 1$ GHz, VBW = 10Hz, Linear average. If the emission is pulsed, the device was modified for continuous operations, and the average level was calculated according to part 15.35(c)

Results:

3.2.2 BASE IN STAND-BY MODE:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor Db/m	Field Strength dBuV/m	Margin dBuV/m
36.32	11	H	0.43	11.92	23.35	16.65
45.79	10.5	V	0.48	10.26	21.24	18.76
54.76	11	V	0.52	11.77	23.29	16.71
65.88	14.7	H	0.55	9.9	25.15	14.85
76.3	10.5	V	0.59	6.77	17.86	22.14
94.98	12.3	V	0.64	10.7	23.64	19.86
101.24	10.7	H	0.65	11.52	22.87	20.63
128.54	10.9	H	0.68	13.13	24.71	18.79
145.58	10.7	V	0.7	13.23	24.63	18.87
153.84	11.8	V	0.72	14.43	26.95	16.55
184.66	11.8	H	0.84	17.07	29.71	13.79
235.01	12.9	V	0.97	11.35	25.22	20.78
235.06	12.8	H	0.97	11.9	25.67	20.33
256.76	14.8	H	1.01	12.87	28.68	17.32
317.98	13	H	1.12	15.42	29.54	16.46
345.58	16.9	H	1.15	15.16	33.21	12.79
345.62	13.8	V	1.15	14.56	29.51	16.49
373.2	18.5	H	1.17	15.26	34.93	11.07
373.24	16.4	V	1.17	14.8	32.37	13.63
400.92	12.8	V	1.2	16.02	30.02	15.98
463.12	11.1	V	1.26	16.9	29.26	16.74
539.16	14.8	V	1.42	18.2	34.42	11.58
566.76	11.4	H	1.5	19.24	32.14	13.86
649.76	12	H	1.65	19.9	33.55	12.45
896.34	11.1	V	1.95	22.23	35.28	10.72
945.89	11.7	V	2.02	22.9	36.62	9.38

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3.2.3 HANDSET IN STAND-BY MODE:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB/m	Field Strength dBuV/m	Margin dB
30.54	12.6	H	0.4	13.62	26.62	13.38
36.3	12.5	V	0.43	10.29	23.22	16.78
46.6	14	V	0.48	10.42	24.9	15.1
76.44	10.3	H	0.59	6.88	17.77	22.23
82.91	11.5	V	0.61	7.34	19.45	20.55
85.92	12.2	H	0.61	7.38	20.19	19.81
138.28	10.8	H	0.69	13.1	24.59	18.91
145.66	10.9	V	0.7	13.25	24.85	18.65
152.07	15.7	H	0.71	14.19	30.6	12.9
165.88	15.6	H	0.76	14.61	30.97	12.53
182.98	11.6	H	0.83	16.9	29.33	14.17
184.95	10.2	V	0.84	17.3	28.34	15.16
207.04	10.6	V	0.91	11.37	22.88	20.62
235.06	12.5	H	0.97	11.9	25.37	20.63
246.52	11.2	V	0.99	12.22	24.41	21.59
262.6	13.7	V	1.03	12.73	27.46	18.54
262.7	19.4	H	1.03	13.11	33.54	12.46
317.93	17.5	H	1.12	15.43	34.05	11.95
317.96	15.2	V	1.12	15.24	31.56	14.44
345.58	15.6	V	1.15	14.56	31.31	14.69
345.62	18.9	H	1.15	15.16	35.21	10.79
373.28	14.8	V	1.17	14.8	30.77	15.23
456.21	19.5	V	1.26	16.86	37.62	8.38
483.83	18.5	V	1.28	17.33	37.11	8.89
483.86	16.7	H	1.28	18.15	36.13	9.87
511.48	15.1	V	1.33	18.06	34.49	11.51

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3.2.4 AC POWER LINES CONDUCTED SPURIOUS EMISSIONS:

Clause: 15.315, 15.207, 15.107, 15.31

Test procedure: ANSI C63.4 - 2003

Technical requirements/Limits:

FCC:

Emission Frequency (MHz)	FCC Conducted Limit (dBμV)	
	Quasi-peak (QP)	Average (AV)
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

IC: 250 μV (48 dBμV) within 0.45-30 MHz using CISPR method of measurement

Test Conditions:

PK and QP(detector): RBW = 10kHz VBW>RBW

Avg: RBW = 10kHz VBW = 10Hz

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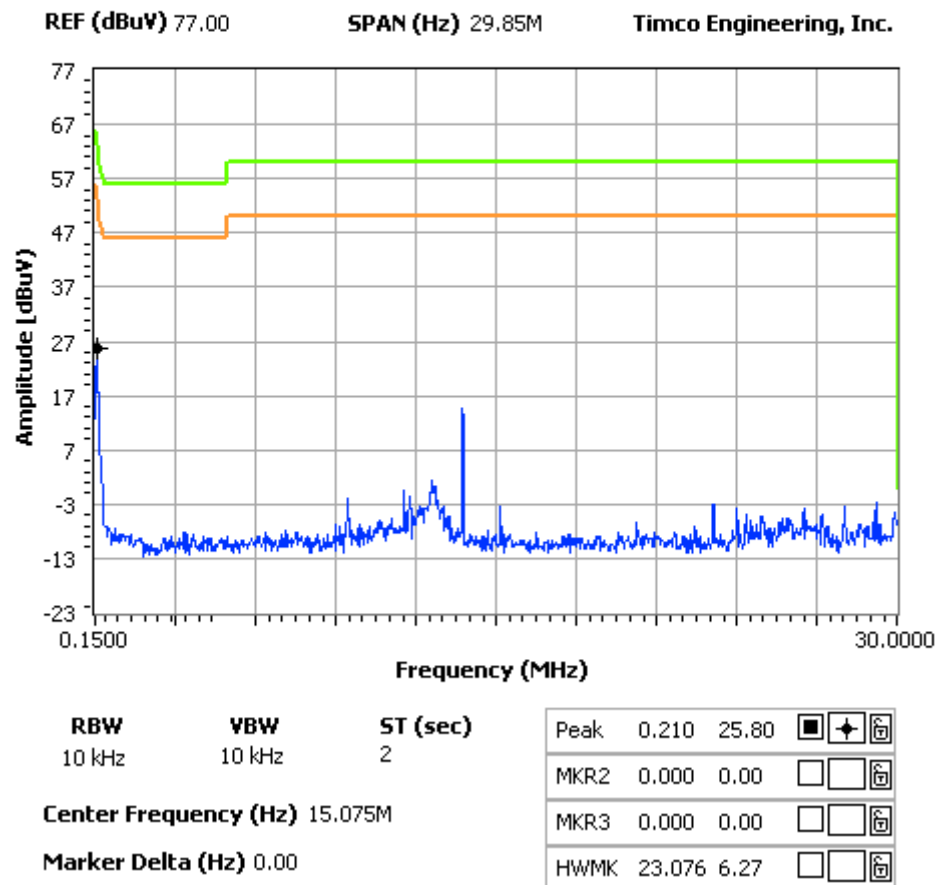
Results:

Base is connected to power source through adapter.
LINE 1:

NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:
POWER LINES CONDUCTED PLOT - LINE 1 (BASE)

FCC 15.107 Mask Class B



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

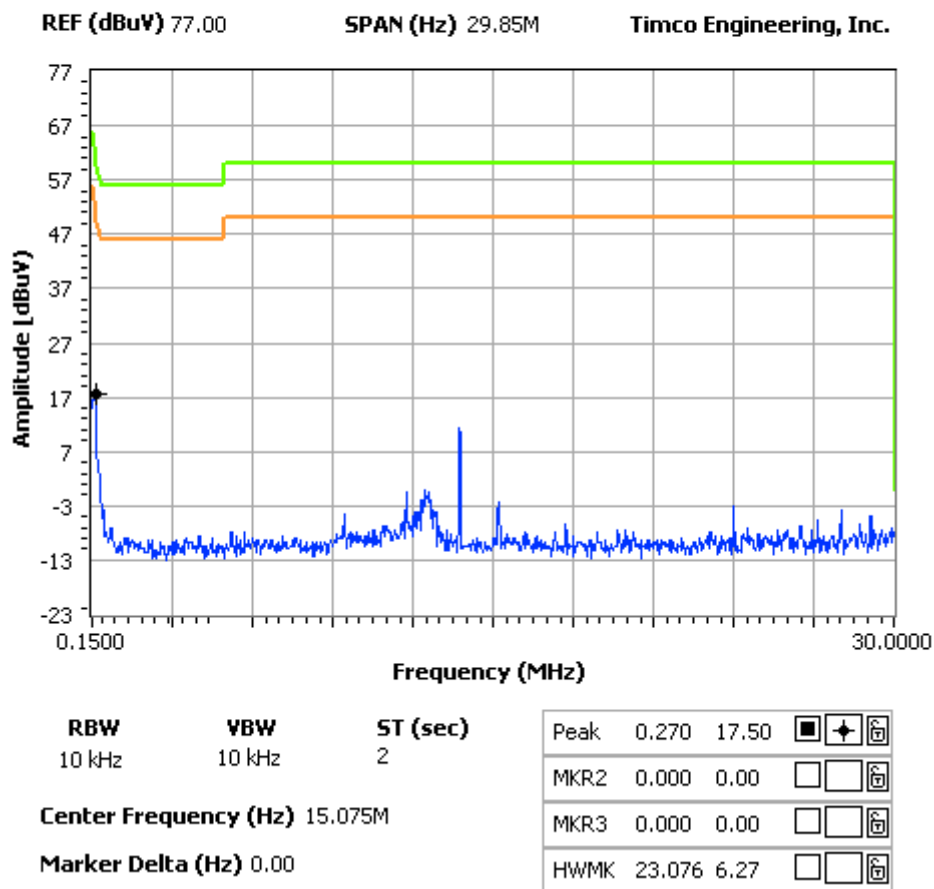
REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

LINE 2:

NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:
POWER LINES CONDUCTED PLOT - LINE 2 (BASE)

FCC 15.107 Mask Class B



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

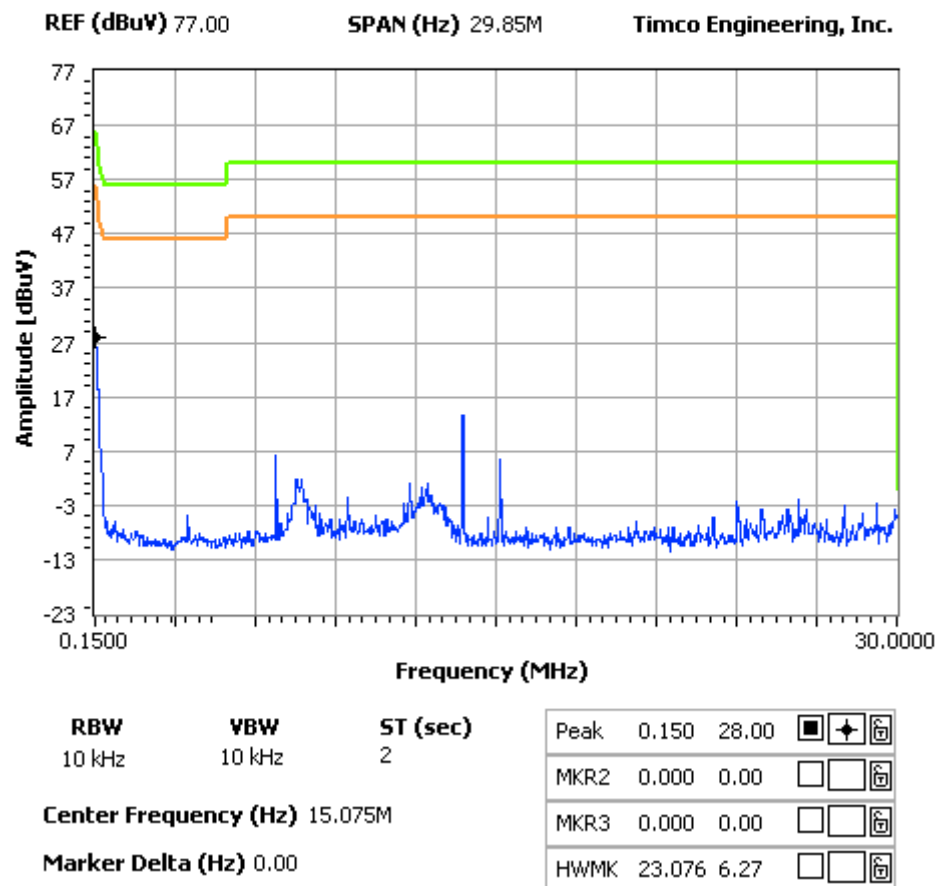
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Base is connected to power source and holding the handset.
LINE 1:

NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:
POWER LINES CONDUCTED PLOT - LINE 1 (BASE + HANDSET)

FCC 15.107 Mask Class B



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

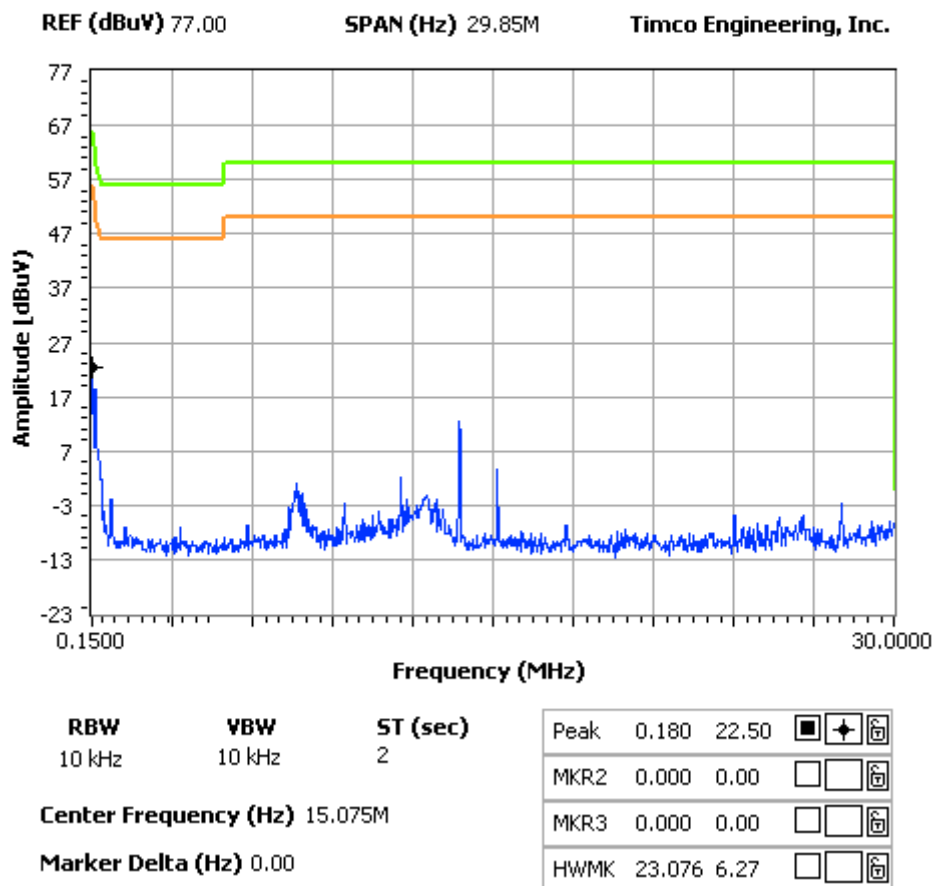
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LINE 2:

NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:
POWER LINES CONDUCTED PLOT - LINE 2 (BASE + HANDSET)

FCC 15.107 Mask Class B



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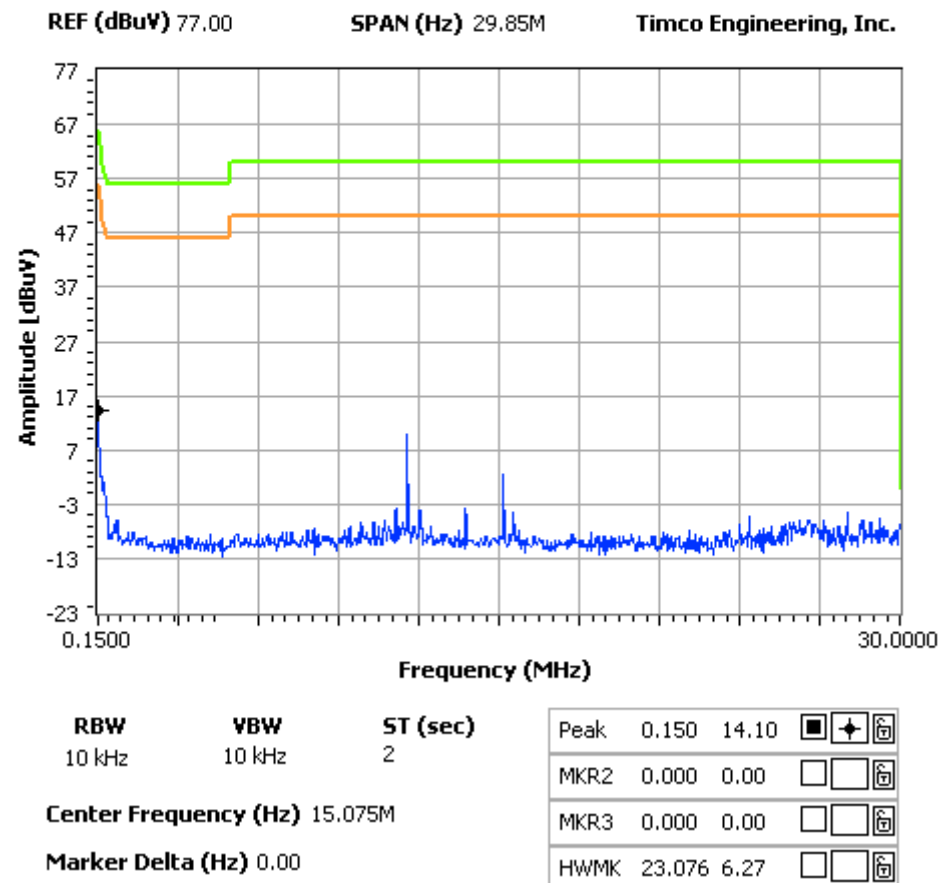
Phone is on the charger, which is connected to power source.

LINE 1:

NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:
POWER LINES CONDUCTED PLOT - LINE 1 (HANDSET)

FCC 15.107 Mask Class B



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

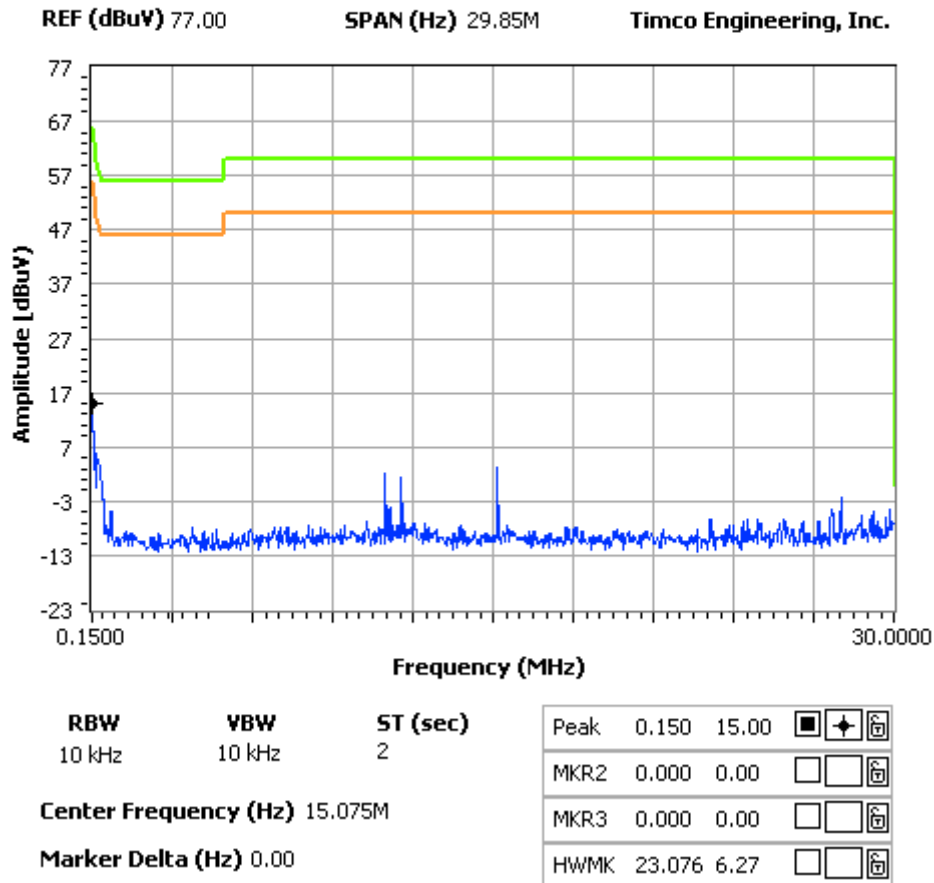
REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

LINE 2:

NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:
POWER LINES CONDUCTED PLOT - LINE 2 (HANDSET)

FCC 15.107 Mask Class B



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4 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/12/06
Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 4/13/05	4/13/07
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
Double-Ridged Horn Antenna	Electro-Metrics	RGA-180	2319	CAL 12/29/04	12/29/06
LISN	Electro-Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Log-Periodic Antenna	Eaton	96005	1243	CAL 5/8/03	5/8/05

APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

5 TEST SETUP PHOTOGRAPHS

RADIATED TEST SET UP (BASE ON TABLE):



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

RADIATED TEST SET UP (BASE ON PEDESTAL TABLE):



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

RADIATED TEST SET UP (HANDSET):



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

POWERLINE CONDUCTED TEST SET UP (HANDSET ON CHARGER):



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

POWERLINE CONDUTED TEST SET UP (BASE ONLY):



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

POWERLINE CONDUCTED TEST SET UP (BASE WITH HANDSET):



APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc

6 EUT EXTERNAL PHOTOGRAPHS

The photos are provided in a separate exhibit

7 EUT INTERNAL PHOTOGRAPHS

The photos are provided in a separate exhibit

8 LABEL PHOTOGRAPHS

The label sample and location are provided in a separate exhibit

APPLICANT: ASCALADE TECHNOLOGIES INC.

FCC ID: PBWDT19R36H

MODEL #: DECT225

REPORT #: U:\A\ASCALADE\1588AUT5\1588AUT5 TestReport1.doc