
INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

In-Tech Electronics Ltd. - MODEL: Cobra CP-9135
FCC ID: NV69135

This report concerns (check one:) Original Grant X Class II Change

Equipment Type: Low Power Transmitter (example: computer, modem, transmitter, etc.)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No X

If yes, defer until : _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes No X

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-1-96 Edition] provision.

Report prepared by:

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Intertek Testing Services.
2/F., Garment Centre,
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Kowloon, Hong Kong.
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INTERTEK TESTING SERVICES

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1.2 Related Submittal(s) Grants

This is an Application for Certification of a cordless telephone system. Two transmitters are included in this Application. This specific report details the emission characteristics of each transmitter. The receivers are subject to the verification authorization process, in accordance with 15.101(b). A verification report has been prepared for the receiver sections of each device. The device is also subject to Part 68 Registration.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (1992). All measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. For each scan, the procedure for maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2
SYSTEM TEST CONFIGURATION

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2.0 System Test Configuration

2.1 Justification

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst case emissions. The handset was powered by a fully charged battery.

For the measurements, the EUT is attached to a cardboard box and placed on the wooden turntable. If the base unit attaches to peripherals, they are connected and operational (as typical as possible). The handset is remotely located as far from the antenna and the base as possible to ensure full power transmission from the base. Else, the base is wired to transmit full power without modulation.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Detector function is in peak mode. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater. All emissions greater than 20 dB μ V/m are recorded.

Radiated emission measurement were performed from 30 MHz to tenth harmonics.

2.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

For emissions testing, the units were setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

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2.3 Support Equipment List and Description

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system (included inserted cards, which have grants) are:

HARDWARE:

The unit was operated standalone. An AC adapter (provided with the unit) was used to power the device. Its description is listed below.

- (1) AC adapter with two meter unshielded power cord permanently affixed.

CABLES:

- (2) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated

OTHERS:

- (1) Headset with 1m cable

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2.4 Equipment Modification

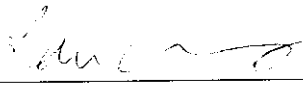
Any modifications installed previous to testing by In-Tech Electronics Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by ETL Division, Intertek Testing Services Hong Kong Ltd.

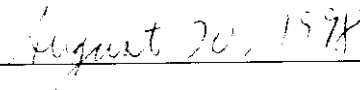
All the items listed under section 2.0 of this report are confirmed by:

Confirmed by:

C. K. Lam
Assistant Manager
Intertek Testing Services
Agent for In-Tech Electronics Ltd.



Signature



Date

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EXHIBIT 3
EMISSION RESULTS

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3.0 Emission Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

where FS = Field Strength in $\text{dB}\mu\text{V/m}$
 RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB
 AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:-

$$FS = RR + LF$$

where FS = Field Strength in $\text{dB}\mu\text{V/m}$
 $RR = RA - AG$ in $\text{dB}\mu\text{V}$
 $LF = CF + AF$ in dB

Assume a receiver reading of $52.0 \text{ dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of $32 \text{ dB}\mu\text{V/m}$. This value in $\text{dB}\mu\text{V/m}$ was converted to its corresponding level in $\mu\text{V/m}$.

$$\begin{aligned} RA &= 52.0 \text{ dB}\mu\text{V/m} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ FS &= RR + LF \\ FS &= 23 + 9 = 32 \text{ dB}\mu\text{V/m} \end{aligned} \qquad \begin{aligned} RR &= 23.0 \text{ dB}\mu\text{V} \\ LF &= 9.0 \text{ dB} \end{aligned}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$


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3.3 Radiated Emission Data - Base Unit

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 3.4 dB

TEST PERSONNEL:


Tester Signature

Wilson S. K. Loke, Engineer
Typed/Printed Name

August 14, 1998
Date

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : TX-Channel 11

Date of Test: July 30, 1998

Table 1. Base unit

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	902.101	74.1	32.0	16	90.1	94	-3.9
V	1804.207	51.1	26.5	34	43.6	54	-10.4
H	*2706.305	42.1	29.1	34	37.2	54	-16.8
H	*3608.407	32.8	32.8	34	31.6	54	-22.4

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna and average detector are used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : TX-Channel 6

Date of Test: July 30, 1998

Table 2, Base unit

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	903.050	74.2	32.0	16	90.2	94	-3.8
V	1806.102	50.2	26.5	34	42.7	54	-11.3
H	*2709.152	40.1	29.1	34	35.2	54	-18.8
H	*3612.209	35.5	32.8	34	34.3	54	-19.7

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : TX-Channel 30

Date of Test: July 30, 1998

Table 3. Base unit

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	904.000	74.6	32.0	16	90.6	94	-3.4
V	1808.007	52.4	26.5	34	44.9	54	-9.1
H	*2712.008	43.0	29.1	34	38.1	54	-15.9
H	*3616.007	33.7	32.8	34	32.5	54	-21.5

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna and average detector are used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : Stand by

Date of Test: July 30, 1998

Table 4. Base unit

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	32.001	28.3	10	16	22.3	40	-17.7
V	36.007	30.5	10	16	24.5	40	-15.5
V	40.002	28.7	10	16	22.7	40	-17.3
V	44.007	29.8	10	16	23.8	40	-16.2
H	52.002	27.1	11	16	22.1	40	-17.9
H	56.003	25.8	11	16	20.8	40	-19.2
H	64.005	28.5	9	16	21.5	40	-18.5

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

FCC ID: NV69135

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd
Model: Cobra CP-9135
Mode : Charging

Date of Test: July 30, 1998

Table 5. Base unit

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	32.001	28.3	10	16	22.3	40	-17.7
V	36.007	30.5	10	16	24.5	40	-15.5
V	40.002	28.7	10	16	22.7	40	-17.3
V	44.007	29.8	10	16	23.8	40	-16.2
H	52.002	27.1	11	16	22.1	40	-17.9
H	56.003	25.8	11	16	20.8	40	-19.2
H	64.005	28.5	9	16	21.5	40	-18.5

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

FCC ID: NV69135

INTERTEK TESTING SERVICES

3.5 Radiated Emission Data - Handset

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 9.3 dB

TEST PERSONNEL:


Tester Signature

Wilson S. K. Loke, Engineer
Typed/Printed Name

August 14, 1998
Date

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd
Model: Cobra CP-9135
Mode : TX-Channel 26

Date of Test: July 30, 1998

Table 8, Handset

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	925.900	67.7	33.0	16	84.7	94	-9.3
H	1851.803	40.2	26.5	34	32.7	54	-21.3
H	*2777.705	42.7	29.1	34	37.8	54	-16.2
H	*3703.604	36.8	32.8	34	35.6	54	-18.4

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : TX-Channel 11

Date of Test: July 30, 1998

Table 6, Handset

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	926.900	67.6	33.0	16	84.6	94	-9.4
H	1853.802	42.0	26.5	34	34.5	54	-19.5
H	*2780.705	43.8	29.1	34	38.9	54	-15.1
H	*3707.608	40.4	32.8	34	39.2	54	-14.8

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd

Date of Test: July 30, 1998

Model: Cobra CP-9135

Mode : TX-Channel 16

Table 7. Handset

Radiated Emissions

Polarity	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
V	927.900	66.2	33.0	16	83.2	94	-10.8
H	1855.803	40.2	26.5	34	32.7	54	-21.3
H	*2785.707	43.0	29.1	34	38.1	54	-15.9
H	*3711.602	36.6	32.8	34	35.4	54	-18.6

NOTES: 1. Peak Detector data

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Wilson S. K. Loke

INTERTEK TESTING SERVICES

3.6 Radiated Emission on the bandedge

Form the following plot, it shows that the fundamental emission is confined in the specified band. And there are shows that the emissions are at least 6.0 dB below the carrier level at band edge (902 and 928 MHz). It meet the requirement of section 15.249(c).

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Emission Plot -Base

hp

MKR 902.1000 MHz
103.99 dBμV

AT 20 dB

REF 113.0 dBμV

PEAK

LOG

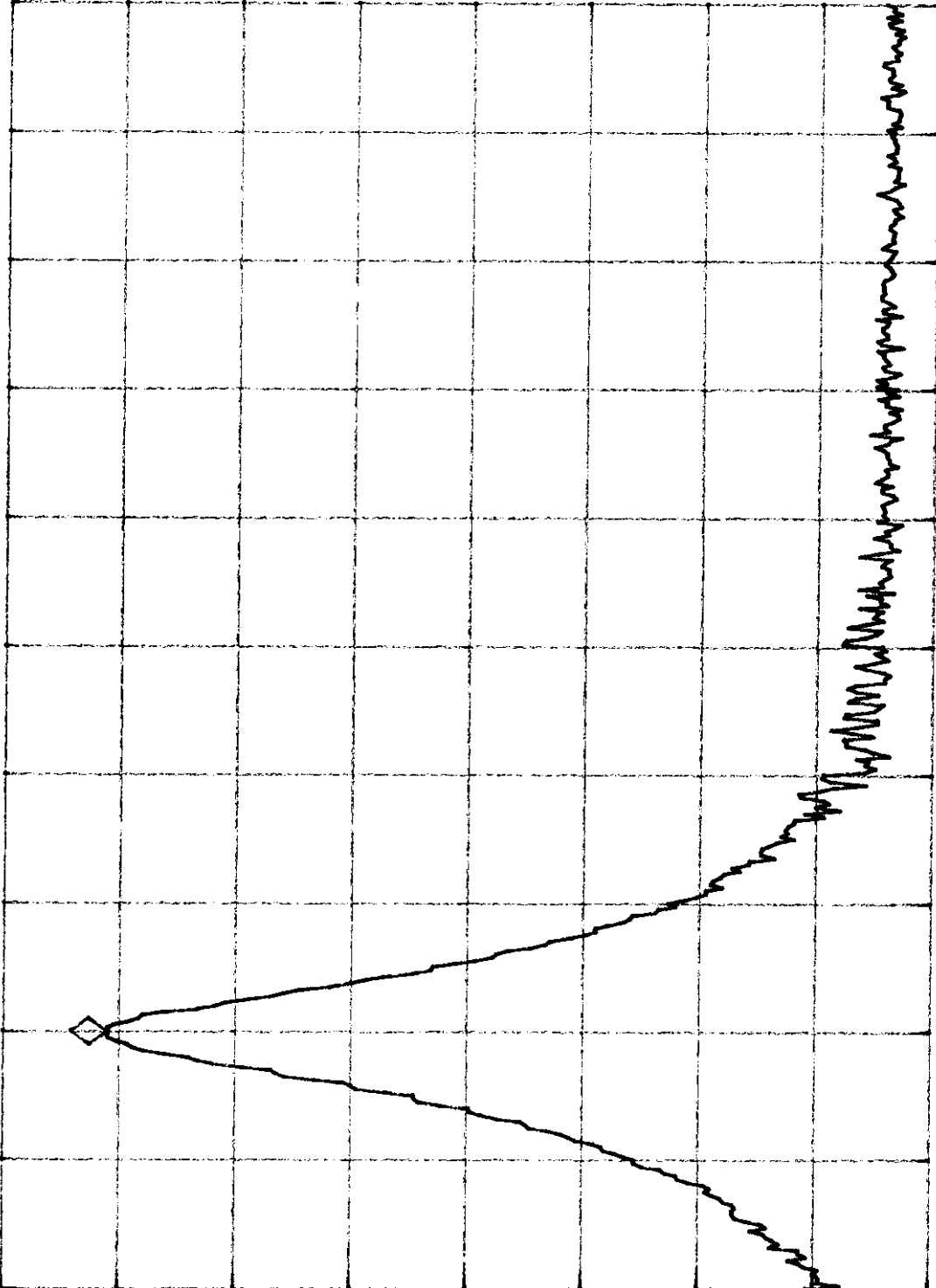
10

dB/

VA SB

SC FC

CORR



START 902.0000 MHz

#RES BW 10 KHZ

STOP 902.5000 MHz

SWP 30.0 msec

#VBW 3 MHz

INTERTEK TESTING SERVICES

Emission Plot - Handset

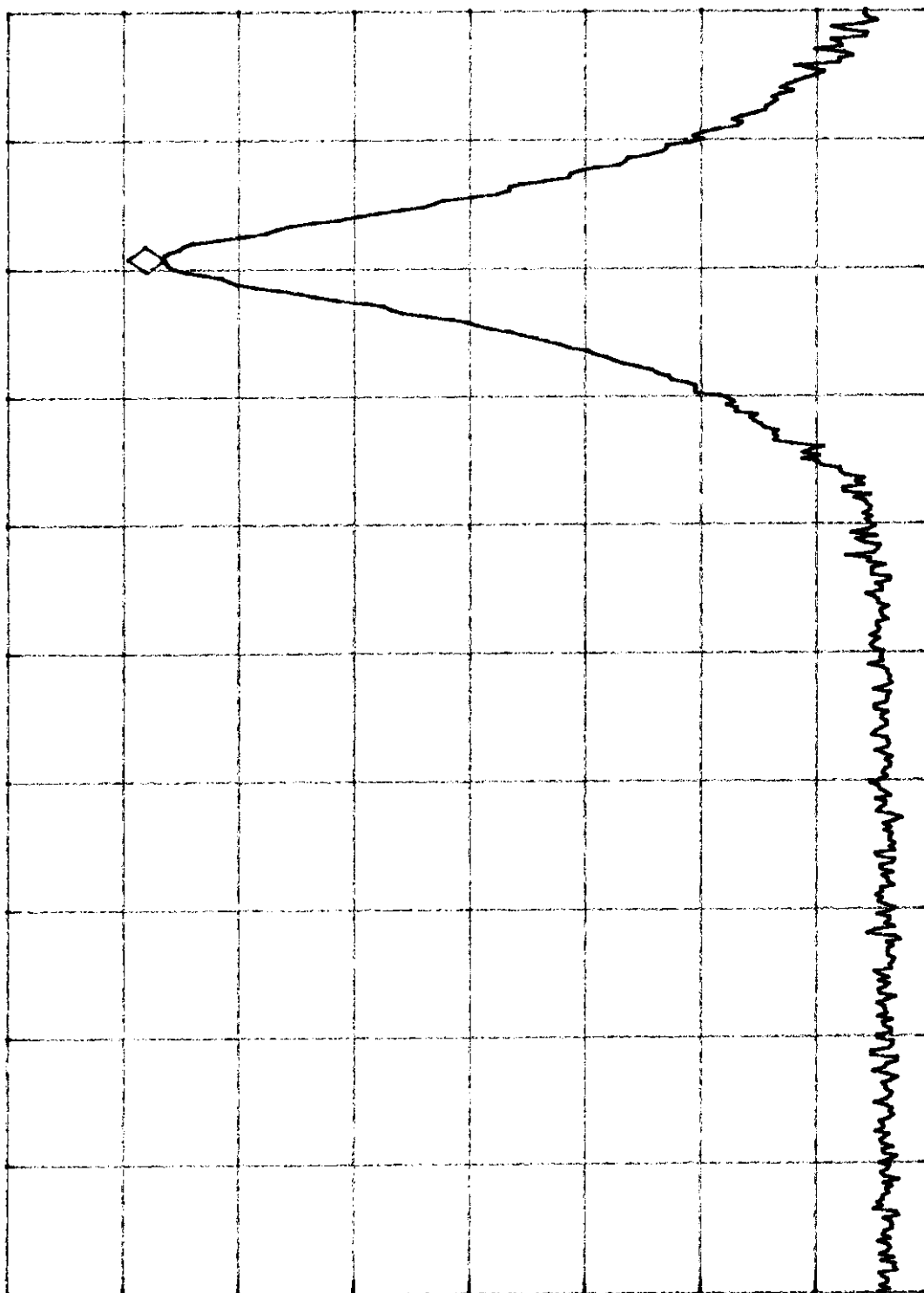
77

FCC ID: NV69135

MKR 927.9038 MHz
99.41 dB μ V

REF 113.0 dB μ V AT 20 dB

PEAK
LOG
10
dB/



VA SB
SC FC
CORR

START 927.5000 MHz #RES BW 10 KHZ
STOP 928.0000 MHz #VBW 3 MHz SWP 30.0 msec

INTERTEK TESTING SERVICES

3.8 Line Conducted Emission Configuration Data

The data on the following pages list the significant emission frequencies, the limit, and the margin of compliance.

Judgement : Passed by 16.7 dB

* All readings are peak unless stated otherwise.

TEST PERSONNEL:


Tester Signature

Wilson S. K. Loke, Engineer
Typed/Printed Name

August 14, 1998
Date

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : TX

Date of Test: July 30, 1998

Graph 1. Base Unit

Conducted Emissions

Report No.: 9806824

Mode: Tx

1. The following information is provided for the purpose of identifying the test item and the test results. The test item is a radio transmitter. The test results are as follows:

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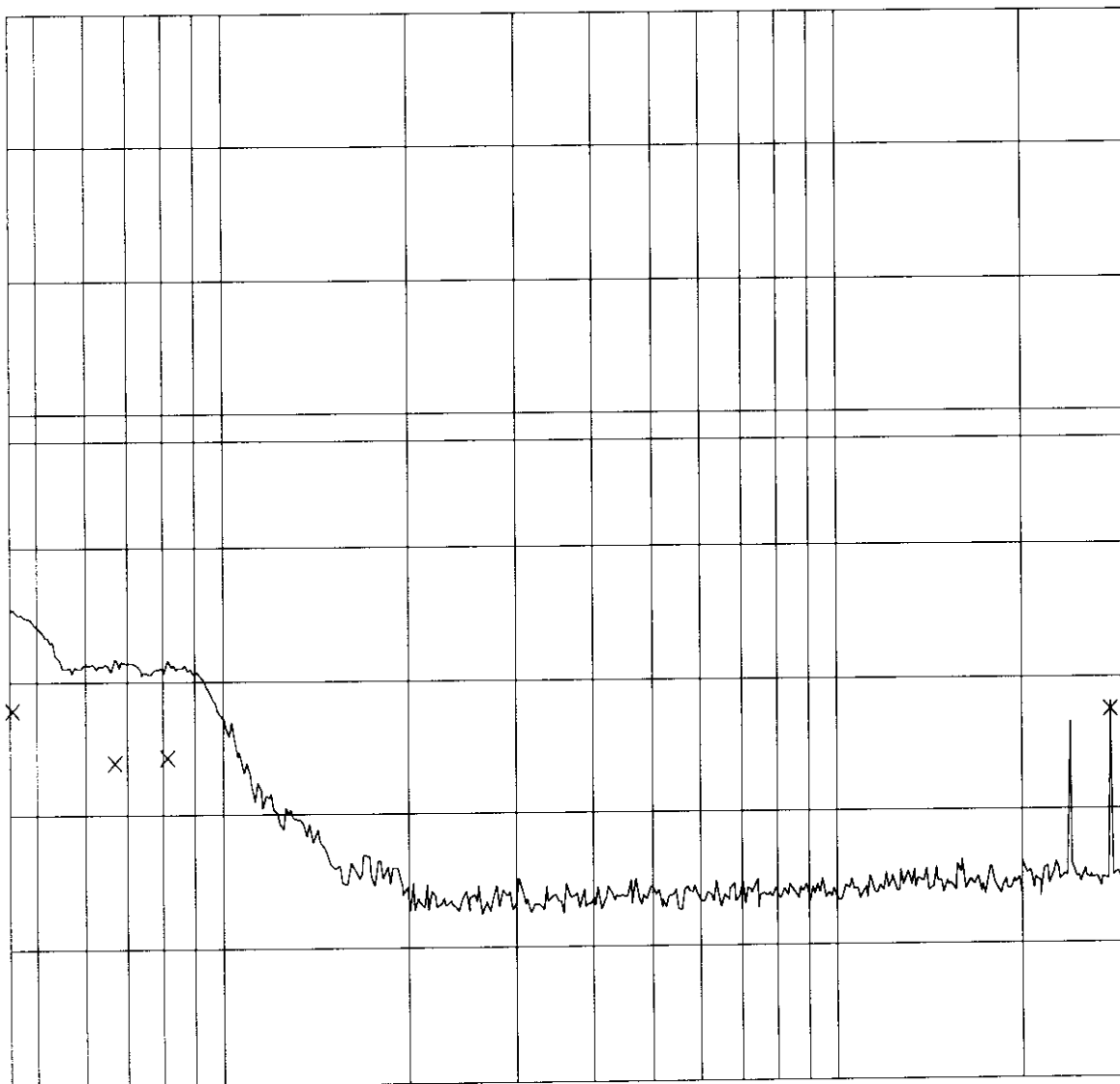
96. The test results are as follows:

97. The test results are as follows:

98. The test results are as follows:

99. The test results are as follows:

100. The test results are as follows:



Ctrl. No.: N/A

FCC ID: NV69135

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : TX

Date of Test: July 30, 1998

Table 9, Base Unit

Conducted Emissions

Report No.: 9806824

Mode: TX

Tested By:Hong, Report No.:9806824

Scan Settings: 1 Range

----- Frequencies -----			----- Receiver Settings -----					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamplifier	OpRge
450K	30M	5K	10K	PK	100ms	AUTO	LN OFF	60dB

Final Measurement Results:

Frequency MHz	QB Level dBmV	QB Limit dBmV
1.45500	37.6	48.0
1.67000	33.9	48.0
1.81500	26.1	48.0
18.01500	37.5	48.0

* Limit exceeded

Ctrl. No.: N/A

FCC ID: NV69135

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : Charging

Date of Test: July 30, 1998

Graph 2, Base Unit

Conducted Emissions

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.

Date of Test: July 30, 1998

Model: Cobra CP-9135

Mode : Charging

Table 10, Base Unit

Conducted Emissions



Intertek Testing Services

ETL Testing Laboratories

Report No.: 7806224

Mode: Changing

Tested By: Hong, Report No.: 9806824

Scan Settings: All Range

----- Frequencies -----			----- Receiver Settings -----					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
45.4	104	1k	10k	PK	20ms	AUTO	LN OFF	60dB

Final Measurement Results:

Frequency MHz	QP Level dBuV	QP Limit dBuV
1.40000	33.9	48.0
1.60000	33.7	48.0
0.48000	20.5	48.0
1.99000	31.9	48.0
19.00000	31.3	48.0

* Limit exceeded

Ctrl. No.: N/A

FCC ID: NV69135

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : Stand by

Date of Test: July 30, 1998

Graph 3, Base Unit

Conducted Emissions

Report No.: 9806824

Mode: Stand by

Device: [illegible]

Test: [illegible]

Location: [illegible]

Date: [illegible]

Time: [illegible]

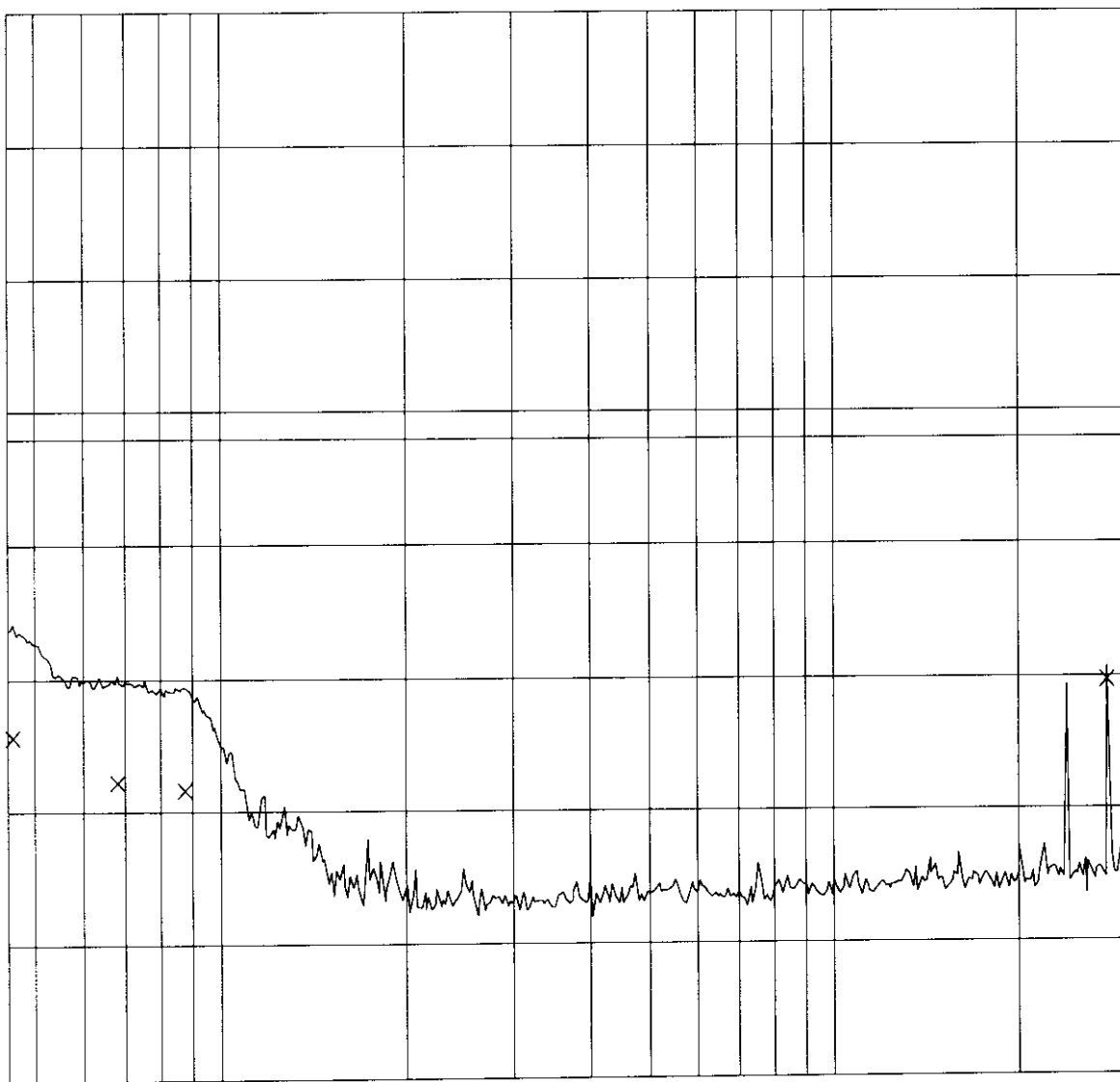
Operator: [illegible]

Reviewer: [illegible]

Approver: [illegible]

Test No.: [illegible]

Page: [illegible]



Ctrl. No.: N/A

FCC ID: NV69135

INTERTEK TESTING SERVICES

Company: In-Tech Electronics Ltd.
Model: Cobra CP-9135
Mode : Stand by

Date of Test: July 30, 1998

Table 11, Base Unit

Conducted Emissions

Report No.: 9806824

Mode: Standby

Tested By: Hoda, Report No.: 9906824

Scan Settings: 1 Range:

----- Frequencies -----			----- Receiver Settings -----					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
450k	30M	5k	10k	PK	20ms	AUTO	LN OFF	60dB

Final Measurement Results:

Frequency MHz	QP Level dBuV	QP Limit dBuV
0.46000	25.0	48.0
0.69000	22.1	48.0
0.97000	21.6	48.0
28.00000	19.0	48.0

* limit exceeded

Ctrl. No.: N/A

FCC ID: NV69135

INTERTEK TESTING SERVICES

EXHIBIT 4
EQUIPMENT PHOTOGRAPHS

4.0 Equipment Photographs

Photographs of the tested EUT are attached.

INTERTEK TESTING SERVICES

**EXHIBIT 8
SECURITY CODE INFORMATION**

INTERTEK TESTING SERVICES

8.0 Security code information

The telephone has an internal security code with 65,536 possible combinations. Each time you place the HANDSET in the base, the code is randomly set to a new combination.