

APPLICANT: HC TELECOM CO., LTD.

FCC ID: ON7HD-950

NAME OF TEST: RADIATED SPURIOUS EMISSIONS - HANDSET

RULES PART NUMBER: 15.247(c)

REQUIREMENTS: Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500 uV/m (54 dBuV/m). Spurious not in a restricted band must be 20dBc.

TEST DATA:

BASE

EMISSION FREQUENCY MHz	METER READING AT 3 METERS dBuV	COAX LOSS dB	ANTENNA CORRECTION FACTOR dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT. POL.
904.20	62.50	2.90	24.18	89.58	37.80	H
1808.40	15.20	1.00	27.23	43.43	10.57	H
2712.90	10.20	1.14	29.78	41.12	12.88	H
3616.80	7.20	1.27	32.04	40.51	13.49	H
914.40	71.00	2.90	24.14	98.04	29.34	V
1828.80	15.00	1.00	27.32	43.32	10.68	H
2743.20	20.50	1.14	29.86	51.50	2.50	V
3657.60	4.20	1.28	32.14	37.62	16.38	V
925.83	72.90	2.90	24.11	99.91	27.47	V
1851.60	14.70	1.01	27.41	43.11	10.89	H
2776.97	15.20	1.15	29.94	46.29	7.71	H
3703.20	5.20	1.29	32.26	38.74	15.26	H

SAMPLE CALCULATION: $FSdBuV/m = MR(dBuV) + ACFdB + COAX.$

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NAME OF TEST: RADIATED SPURIOUS EMISSIONS - BASE

METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was scanned from 30 MHz to 10 GHz using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard model 85650A Quasi-Peak Adaptor, an Eaton model 94455-1 Biconical Antenna, and an Electrometrics RGA-180 Horn Antenna. Low loss coax was used above 1 GHz, At the higher frequencies, the measuring antenna was moved to within 1m of the UUT to search for emissions. Measurements were made at Timco Engineering, Inc. 6051 NW 19TH Lane Gainesville, Fl.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: S. S. SANDERS DATE: 5 OCT 1999

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APPLICANT: HC TELECOM CO., LTD.

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NAME OF TEST: RADIATED SPURIOUS EMISSIONS - HANDSET

RULES PART NUMBER: 15.247(c)

REQUIREMENTS: Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500 uV/m (54 dBuV/m). For a direct sequence spread spectrum device the limit for the fundamental is 127.38dBuV/m

TEST DATA:

EMISSION FREQUENCY MHz	METER READING AT 3 METERS dBuV	COAX LOSS dB	ANTENNA CORRECTION FACTOR dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT. POL.
HANDSET						
904.20	74.60	2.90	24.18	101.68	25.70	V
1808.40	9.80	1.00	27.23	38.03	15.97	V
3712.30	12.60	1.29	32.28	46.17	7.83	V
3616.70	18.30	1.27	32.04	51.61	2.39	V
4521.30	12.80	1.41	33.59	47.80	6.20	V
5425.20	11.40	1.54	34.60	47.55	6.45	V
6329.40	1.70	1.68	35.62	39.00	15.00	V
914.40	73.40	2.90	24.14	100.44	26.94	V
1829.10	9.90	1.00	27.32	38.22	15.78	V
2743.20	9.20	1.14	29.86	40.20	13.80	H
3657.60	15.20	1.28	32.14	48.62	5.38	H
4572.30	1.70	1.42	33.64	36.76	17.24	H
925.80	74.20	2.90	24.11	101.21	26.47	V
1851.60	9.20	1.01	27.41	37.61	16.39	V
2777.70	11.20	1.15	29.94	42.29	11.71	V
3703.00	18.20	1.29	32.26	51.74	2.26	V
4629.30	10.10	1.42	33.71	45.23	8.77	V
5554.80	10.40	1.56	34.75	46.71	7.29	V
6480.09	0.60	1.70	35.79	38.09	15.91	V

SAMPLE CALCULATION: FSdBuV/m = MR(dBuV) + ACFdB + COAX.

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APPLICANT: HC TELECOM CO., LTD.

FCC ID: ON7HD-950

NAME OF TEST: TRANSMITTED POWER DENSITY

RULES PART NUMBER: 15.247(d)

REQUIREMENTS: The transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

TEST DATA:

	FREQUENCY	PLOT READING	IN LINE ATTENUATION	POWER DENSITY
BASE :				
CH1	904.67MHz	-53.20dbm	50dB	-3.20dBm
CH10	914.82	-51.00dBm	50dB	-1.00dBm
CH20	926.23	-47.50dBm	50dB	+2.50dBm
HANDSET:				
CH1	904.55MHz	-53.20dBm	50dB	-3.20dBm
CH10	914.83	-49.00dBm	50dB	+1.00dBm
CH20	926.02	-47.60dBm	50dB	+2.40dBm

Measurement Method:

Starting from the settings that were used for the 6Db bandwidth the peak signal was located and the span was reduced and the sweep time increased in a manner to maintain calibration and to keep the peak emission in the display, then once the sweep time reached 500seconds at 1500KHz span the spectrum analyzer was put into the noise power mode and the plots made.

SEE ATTACHED PLOTS

NAME OF TEST: PROCESSING GAIN

RULES PART NUMBER: 15.247(e)

REQUIREMENTS: The processing gain shall be at least 10 dB.

TEST DATA:

The processing gain of this unit is 10.0dB . This information was provided by the manufacturer.

PERFORMED BY: S. S. SANDERS DATE: 5 OCT 1999

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