

EMI TEST Ltd.

EMC & SAFETY Test Laboratory

ELECTROMAGNETIC COMPATIBILITY

TEST REPORT No. 1MNP175

FOR:

Company Name: Mono Pro Ltd.

Equipment Under Test: "Smart & SafeTM"

Total number of pages (including this page): 4

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EMI TEST LAB. LTD.

EMI Test Labs Ltd. Provide evaluation and testing in the EMC and safety fields. EMI test is FCC listed and EMCC European lab accredited.

TEST REPORT.

Subject:

Electro-magnetic Radiation measurements for cellular phone hands free head set.

Description:

"smart & safeTM" hands free head set, new innovation based on hollow tube that transmits the sound from the speaker to the earpiece.

The parameters:

- 1. Electric Filed Strength
- 2. Power Density.

unit of measure µW/cm² (Micro Watts per cm²)

Test method:

The measurements were made to three different types of cellular phone, using two different cellular systems (TDMA or GSM) as described in report #1MNP175

For each model, the parameters had been measured with the "smart & safeTM" hand free and without the hand free set – means Direct to the telephone device

The measurements have been made while the transmission is low power, and in high power.

The data were measured from two areas:

- 1. Earpiece the unit that located near by the "ear" of the user
- 2. Mouthpiece the unit that located near by the "mouth" of the user

Notes:

- At the "Hands free head set", the unit that located near by the "ear", is relevant for the radiation measurement at the head and brain zone.
- The hands free head set was located 40 cm from the cellular telephone device accordingly the distance as in usual operation

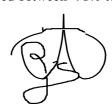
Test Results:

Analyzing the data, indicates that Using the "smart & safeTM" hands free head set, is prevent the Electro-magnetic Radiation emission, especially at the Earpiece - the unit that located near by the "ear" of the user and most relevant for the radiation level on the head and brain zone.

Conclusion

while using the "smart & safeTM," hands free head set,

The Power Density measured at the Earpiece, was reduced between 96% to 99.9% The Electric filed strength measured at the Earpiece, was reduced between 78% to 98%



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Measurement Results and data analysis: #1mnp175

Model: Nokia 5110 system GSM (μW/cm²)

Model: Nokia 5110 system GSM (μW/cm ²)	Direct to the telephone device	"smart & safe" hands free head set	deviation
electric filed density / low transmission / ear	760	3.2	99.6%
electric filed density / high transmission / ear	2000	2.8	99.9%
electric filed strength / low transmission / ear	86	3.2	96.3%
electric filed strength / high transmission / ear	200	4.2	97.9%
electric filed density / low transmission / mouth	1040	76	92.7%
electric filed density / high transmission / mouth	900	19.5	97.8%
electric filed strength / low transmission / mouth	65	7.7	88.2%
electric filed strength / high transmission / mouth	65	15	76.9%

Model: Nokia 8620 system TDMA (μW/cm²)

Model: Nokia 8620 system TDMA (μW/cm ²)	Direct to the telephone device	"smart & safe" hands free head set	deviation
electric filed density / low transmission / ear	235	1.7	99.3%
electric filed density / high transmission / ear	890	1.3	99.9%
electric filed strength / low transmission / ear	30	2.3	92.3%
electric filed strength / high transmission / ear	38	1.8	95.3%
electric filed density / low transmission / mouth	1050	39	96.3%
electric filed density / high transmission / mouth	1600	10	99.4%
electric filed strength / low transmission / mouth	60	11	81.7%
electric filed strength / high transmission / mouth	47	6	87.2%

Model: MOTOROLA StarTEC system GSM (μW/cm²)

Model:MOTOROLA StartTAC system GSM (μW/cm ²)	Direct to the telephone device	"smart & safe" hands free head set	deviation
electric filed density / low transmission / ear	42	1.5	96.4%
electric filed density / high transmission / ear	55	1.8	96.7%
electric filed strength / low transmission / ear	14	2.4	82.9%
electric filed strength / high transmission / ear	12	2.6	78.3%
electric filed density / low transmission / mouth	309	25	91.9%
electric filed density / high transmission / mouth	260	31	88.1%
electric filed strength / low transmission / mouth	32	9	71.9%
electric filed strength / high transmission / mouth	29	9	69.0%

