



ROYAL SCIENTIFIC SOCIETY

RSS TESTING
NON DESTRUCTIVE LABORATORIES DIVISION
NON DESTRUCTIVE TESTING & WELDING LAB.
P.O. BOX 1438 AL-JUBIEHA, AMMAN 11941- JORDAN
PHONE: 5344701-9, TELEX: 21276, FAX: 5344801



TEST REPORT NO. 331/11/22

Designation No.: 3 / 11 / 7129	Our Ref. : (3) 148/55/1/	Dated : / 5 / 2011
Date Receipt : 3 / 5 / 2011	Your Ref.: ---	Dated : 3 / 5 / 2011
Date of Test : 4 / 5 / 2011	Mr.: Basel Shatara	Material : Human Skin
Page : (1) of (6)	Method of Sampling: By RSS, In laboratory	Object : Human Face, Right side

THERMOGRAPHIC TESTING REPORT

REQUIRED TEST : Thermographic Testing of Human Face Skin.

At Royal Scientific Society Laboratory, Al-Jubaiha- Amman

INSTRUMENT USED : Infrared Camera RAYCAM C.A 1883.

EXTENT OF TEST & TEST PROCEDURE:

- Thermographic Testing of Right side of Human Face Skin in presence of open-line (live) cell phone conversation.
- Client procedure was used in two trials, consisting of:
 - Conditioning of the subject for 15 minutes in controlled room temperature of 22 °C
 - Starting a phone call for 5 minutes on the right side of the face
 - Conditioning of the subject for 5 minutes in controlled room temperature of 22 °C
 - Conducting Thermographic testing of the right side of the face for acquiring images during and after the phone call.
 - Analyzing acquired Radiometric Images using Thermographic Analysis Software.
- In the first Trial, the "Cel-Factor" chip was used on the back of the phone during the cell phone conversation. In the second Trial, the "Cel-Factor" chip was not used on the back of the phone during the cell phone conversation.
- All measured temperatures are in Degree Celsius (°C).
- The temperature measurement accuracy error range of the instrument is: $\pm 2^{\circ}\text{C}$

TEST RESULTS:

- By comparing the results of the two trials (1st: with "Cel-Factor, 2nd: without "Cel-Facot") a slight temperature decrease was noticed on the right side of the face when the "Cel-Factor" chip was used, however, these reading are within the instrument's measurement accuracy error of $\pm 2^{\circ}\text{C}$.
- Average difference of the temperatures was calculated (Trial #2 data minus Trial #1 Data) and was found to be 0.87 °C and 0.23 °C (during phone call and after phone call, respectively) which is still within the instrument's measurement accuracy error of $\pm 2^{\circ}\text{C}$.

Lab Head: Mohammed Eid	Acting Division Head: Eng. Fouad Zayadin
Date: / 9 / 2011	Date: / 9 / 2011

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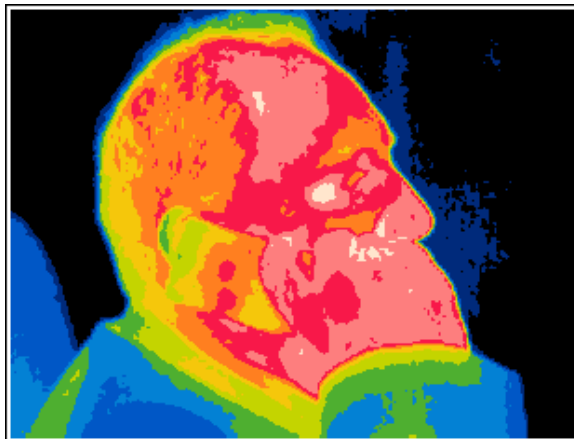
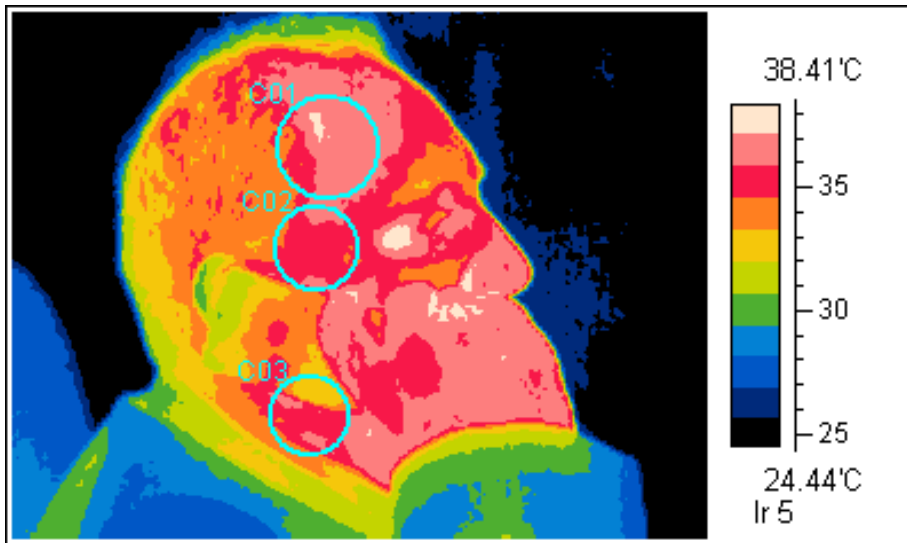


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THERMOGRAPHIC TESTING REPORT

**Test Trial # 1, With "Cel-Factor" Chip on the back of the cell phone.
 During phone conversation at the 5th minute of phone call.**



IR Info	Value
IrNo	5
Ems.	0.91
Env. Tmp.	21.2
Rel. Hum.	%45
Date	13-9-2011
Time	11:42:56
Label	Value
C01:Max	37.44
C01:Min	33.67
C01:Avg	36.35
C02:Max	36.87
C02:Min	34.21
C02:Avg	35.48
C03:Max	37.01
C03:Min	32.56
C03:Avg	34.88

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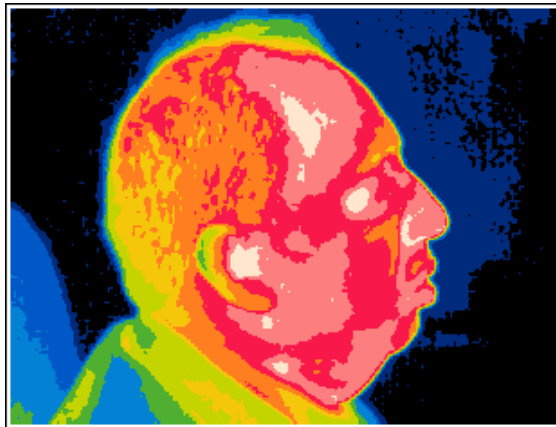
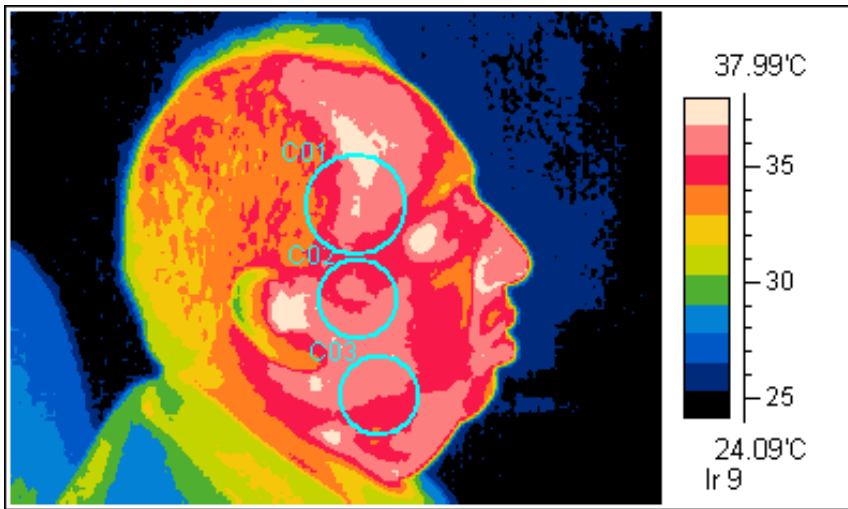


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THERMOGRAPHIC TESTING REPORT

**Test Trial # 1, With "Cel-Factor" Chip on the back of the cell phone.
 After phone conversation, 1st minute after phone call ended**



IR Info	Value
IrNo	9
Ems.	0.91
Env. Tmp.	21.2
Rel. Hum.	%45
Date	13-9-2011
Time	11:43:16
Label	Value
C01:Max	37.33
C01:Min	33.64
C01:Avg	35.74
C02:Max	36.83
C02:Min	34.53
C02:Avg	35.77
C03:Max	36.87
C03:Min	34.25
C03:Avg	35.64

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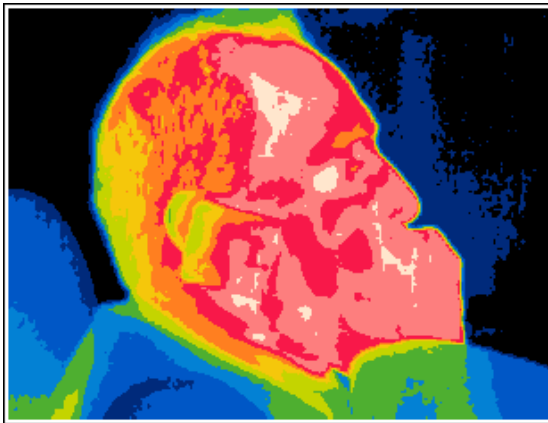
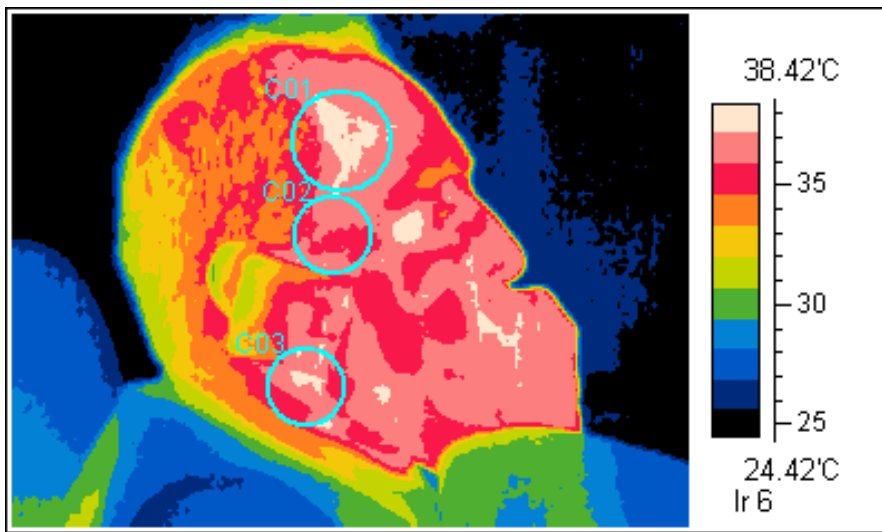


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THERMOGRAPHIC TESTING REPORT

**Test Trial # 2, Without "Cel-Factor" Chip on the back of the cell phone.
During phone conversation at the 5th minute of phone call.**



IR Info	Value
IrNo	6
Ems.	0.91
Env. Tmp.	21.2
Rel. Hum.	%45
Date	13-9-2011
Time	11:56:36
Label	Value
C01:Max	37.89
C01:Min	33.43
C01:Avg	36.77
C02:Max	37.42
C02:Min	34.58
C02:Avg	36.19
C03:Max	37.78
C03:Min	34.51
C03:Avg	36.35

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Acting Division Head: Eng. Fouad Zayadin

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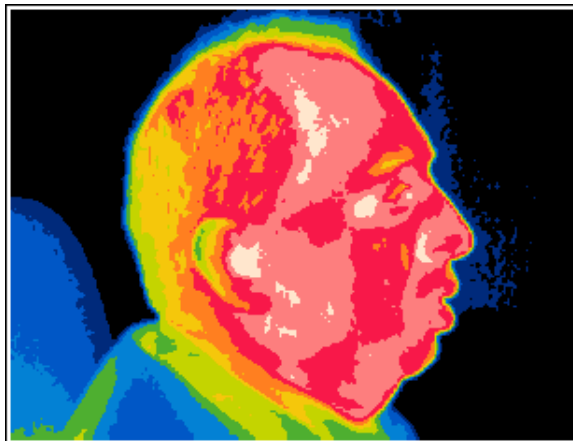
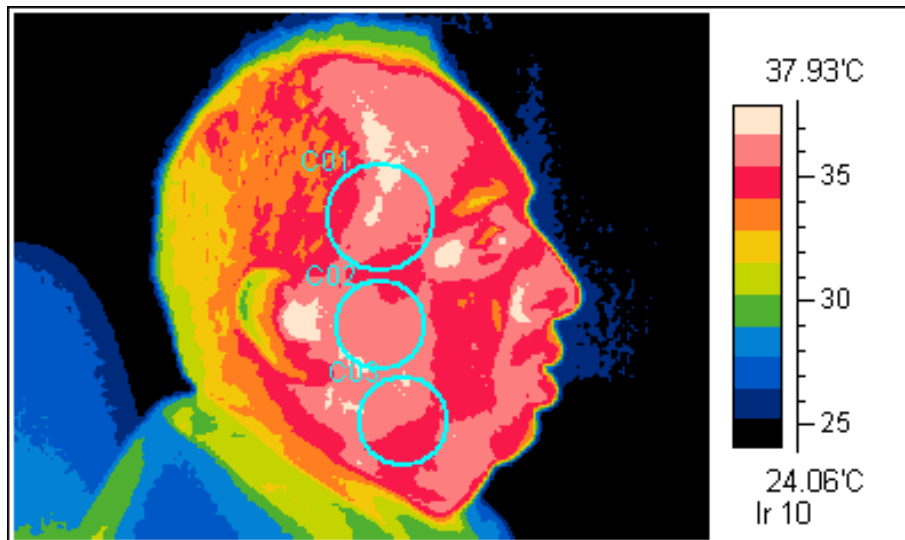


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THERMOGRAPHIC TESTING REPORT

**Test Trial # 2, Without "Cel-Factor" Chip on the back of the cell phone.
After phone conversation, 1st minute after phone call ended**



IR Info	Value
IrNo	10
Ems.	0.91
Env. Tmp.	21.2
Rel. Hum.	%45
Date	13-9-2011
Time	11:57:36
Label	Value
C01:Max	37.13
C01:Min	34.3
C01:Avg	35.9
C02:Max	36.99
C02:Min	34.98
C02:Avg	36.18
C03:Max	36.95
C03:Min	34.51
C03:Avg	35.75

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THERMOGRAPHIC TESTING REPORT

Trial # 1 With "Cel-Factor"	Trial # 2 Without "Cel-Factor"	Comparison Data of Trial 2 minus Trial 1
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5th minute of the Call				
C01:Avg	36.35	C01:Avg	36.77	0.42
C02:Avg	35.48	C02:Avg	36.19	0.71
C03:Avg	34.88	C03:Avg	36.35	1.47
			Avg.	0.87

1 minute after ending of Call				
C01:Avg	35.74	C01:Avg	35.9	0.16
C02:Avg	35.77	C02:Avg	36.18	0.41
C03:Avg	35.64	C03:Avg	35.75	0.11
			Avg.	0.23

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