Bluetooth Qualification TEST REPORT For RF and Profile

REPORT NUMBER: I08GW7473

ON

Type of Equipment: GSM/WCDMA Moble Phone with embedded Bluetooth

Model of Equipment: POCKEY PC 810-F

Manufacturer: ON TIM TECHNOLOGIES LTD

China Telecommunications Technology Labs

Month date, year
Mar. 25th, 2009

Signature

Shi Denian
Technical Director

Bluetooth

Table of Contents

1 General Information

1.1 Notes

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with the following specifications.

Description	Document
PRD	PRDv21_vd1 Approved_Erratum
TCRL	TCRL_2.0_EDR_2008-1
RF Test Spec	RF.TS/2.1.E.2
Profile Test Spec	IOPT_TS/ OPP.TS.1.1.6/ HSP.TS.1.1.3/ HFP.TS.1.5.8/ GAVDP_TS_C1.1_10/ HID.TS.1.0.5 / A2DP.TS.1.1.6/ AVRCP.TS.1.4.0/ PAN.TS.1.0.3

The test results of this test report relate only to the E.U.T and item(s) tested as specified in section 2 and 4.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex A.

1.2 Testers

Name:	Zhang Zhiwei
Position:	Engineer
Department:	Department of Radio Communication
Responsibility:	RF.TS.2.1.E.2/ IOPT_TS/ OPP.TS.1.1.6/ HSP.TS.1.1.3/ HFP.TS.1.5.8/ GAVDP_TS_C1.1_10/ HID.TS.1.0.5 / A2DP.TS.1.1.6/ AVRCP.TS.1.4.0/ PAN.TS.1.0.3
Duration of the test:	From Dec. 19th, 2008 to Mar. 25th, 2009
Signature:	张秋伟
Date:	Mar. 25th, 2009

Technical responsibility for area of testing:

Name:	Zhang Yufeng
Position:	Project Manager
Department:	Department of Radio Communication
Signature:	张玉凤
Date:	Mar. 25th, 2009

1.3 Testing Laboratory

1.3.1 Location

Name:	China Telecommunication Technology Labs.
Address:	No.11 Yue Tan Nan Jie
	BEIJING
	P.R.CHINA
	100045
Tel:	+86 10 68094080
Fax:	+86 10 68051533
Email:	cpu@chinattl.com

1.3.2 Test location, where different from section 1.3.1

Name:	--
Address:	--
Tel:	--
Fax:	--

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name:	i-mate Middle East FZ-LLC
Address:	Office 201-209 Building 11 PO Box 500085 Dubai Internet City
Country:	United Arab Emirates
Telephone:	+971 (4) 390 1989 +1 (760) 807-7101
Fax:	+971 (4) 390 4428
Contact:	John Basacchi
Telephone:	+971 (4) 390 1989 +1 (760) 807-7101
Email:	john.basacchi@imate.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name:	ON TIM Technologies LTD
Address:	M Floor, Electric Technology Tower,No.12A,Jiu Xian Qiao Road, Chao Yang District, Beijing, China(100016)
City:	Beijing
Country:	China

2 E.U.T. Information

2.1 Outline of E.U.T.

Manufacturer:	ON TIM TECHNOLOGIES LTD
Type of Equipment:	GSM/WCDMA Moble Phone with embedded Bluetooth
Model of Equipment:	i-mate 810-F
Part Number:	None
Product conditions:	Normal
Receipt date of test item:	Dec. 19th 2008
Note: --	

2.2 Modifications Incorporated in E.U.T.

The E.U.T. has not been modified from what is described by the brand name and unique type identification stated above.

2.3 Equipment Configuration

Software Version	Hardware Version	ID	Date of Receipt	Date of Return
810-F_WWE.6.1.	P1	00170800008D	Dec/19/2008	Mar/02/2009

2.4 Other Information

The accessories of E.U.T. contain: --

3 Summary of Test Results

Standard: RF.TS.2.1.E.2/ IOPT_TS/ OPP.TS.1.1.6/ HSP.TS.1.1.3/ HFP.TS.1.5.8/ GAVDP_TS_C1.1_10/ HID.TS.1.0.5 / A2DP.TS.1.1.6/ AVRCP.TS.1.4.0/ PAN.TS.1.0.3

The summary of test cases called for in the above standard is given as below.

Test Suites	Tested	Passed	Failed
Product RF Testing	23	23	0
Product Profile Interoperability Testing	134	134	0
Sum	157	157	0

Note:

1. “Tested” means the test cases applied and performed on this certain type of product; “Passed” means the test cases in which this product can successfully meet the requirement of quoted criterions; “Failed” means the test cases in which this product can not meet the requirement of quoted criterions; “N/A” means the test cases which are not supported according to related PICS/PIXIT statements from manufacturer; “--” means the test cases about which there is no requirement in specification or manufacturer makes no requirements.

4 Test Results

Method of measurement: See RF.TS/2.1.E.1

1 RF: RF.TS/2.1.E.1

Number	Test Case Identifier	Description	Category	Verdict
1.	TRM-CA/01-C	Output Power (Nominal + Extremes)	A	passed
2.	TRM-CA/02-C	Power Density (Nominal + Extremes)	B	passed
3.	TRM-CA/03-C	Power Control (Nominal Only)	A	passed
4.	TRM-CA/04-C	TX Output Spectrum – Frequency range (Nominal + Extremes)	A	passed
5.	TRM-CA/05-C	TX Output Spectrum – 20 dB Bandwidth (Nominal + Extremes)	A	passed
6.	TRM-CA/06-C	TX Output Spectrum – Adjacent channel power (Nominal + Extremes)	A	passed
7.	TRM-CA/07-C	Modulation Characteristics (Nominal + Extremes)	A	passed
8.	TRM-CA/08-C	Initial Carrier Frequency Tolerance (Nominal + Extremes)	A	passed
9.	TRM-CA/09-C	Carrier Frequency Drift (Nominal + Extremes)	A	passed
10.	TRM-CA/10-C	EDR Relative Transmit Power (Nominal + Extremes)	A	passed
11.	TRM-CA/11-C	EDR Carrier Frequency Stability and Modulation Accuracy (Nominal + Extremes)	A	passed
12.	TRM-CA/12-C	EDR Differential Phase Encoding (Nominal Only)	A	passed
13.	TRM-CA/13-C	EDR In-band Spurious Emissions (Nominal + Extremes)	B	passed
14.	RCV-CA/01-C	Sensitivity – single slot packets (Nominal + Extremes)	A	passed

15.	RCV-CA/02-C	Sensitivity - multi-slot packets (Nominal + Extremes)	A	passed
16.	RCV-CA/03-C	C/I performance (Nominal Only)	A	passed
17.	RCV-CA/04-C	Blocking performance (Nominal Only)	A	passed
18.	RCV-CA/05-C	Intermodulation Performance (Nominal Only)	A	passed
19.	RCV-CA/06-C	Maximum Input Level (Nominal Only)	A	passed
20.	RCV-CA/07-C	EDR Sensitivity (Nominal + Extremes)	A	passed
21.	RCV-CA/08-C	EDR BER Floor Performance (Nominal Only)	A	passed
22.	RCV-CA/09-C	EDR C/I Performance (Nominal Only)	A	passed
23.	RCV-CA/10-C	EDR Maximum Input Level (Nominal Only)	A	passed
Note: --				

2 IOPT (Interoperability Profile): Method of measurement: IOPT_TS

Number	Test Case Identifier	Description	Category	Verdict
24.	TP/COD/BV-01-I	Class-of-Device	B	passed
25.	TP/SDSS/BV-02-I	Service Discovery – Service Search	B	passed
26.	TP/SDAS/BV-03-I	Service Search – Attribute Search	B	passed
27.	TP/SDR/BV-04-I	Service Search – Response	C	passed
Note: --				

3 OPP (Object Push Profile): Method of measurement: OPP.TS.1.1.6

Role: Server

Number	Test Case Identifier	Description	Category	Verdict
28.	TP/OPH/BV-01-I	Push – List	B	passed
29.	TP/OPH/BV-02-I	PIN Check	B	passed
30.	TP/OPH/BV-03-I	Push vCard – accepted	B	passed

31.	TP/OPH/BV-04-I	Push two vCard items – accepted	B	passed
32.	TP/OPH/BV-07-I	Push vCal – accepted	B	passed
33.	TP/OPH/BV-08-I	Push two vCal items – accepted	B	passed
34.	TP/OPH/BV-11-I	Push vMsg – accepted	B	passed
35.	TP/OPH/BV-12-I	Push two vMsg items – accepted	B	passed
36.	TP/OPH/BV-15-I	Push vNote – accepted	B	passed
37.	TP/OPH/BV-16-I	Push two vNote items – accepted	B	passed
38.	TP/OPH/BV-19-I	Push other content formats-Accepted	B	passed
39.	TP/OPH/BV-21-I	Push other content formats - Non Support, Server side	B	passed
40.	TP/BCP/BV-02-I	Pull - non support	B	passed
Note: --				

Role: Client

Number	Test Case Identifier	Description	Category	Verdict
41.	TP/OPH/BV-01-I	Push – List	B	passed
42.	TP/OPH/BV-02-I	PIN Check	B	passed
43.	TP/OPH/BV-03-I	Push vCard – accepted	B	passed
44.	TP/OPH/BV-04-I	Push two vCard items – accepted	B	passed
45.	TP/OPH/BV-05-I	Push vCard – rejected	B	passed
46.	TP/OPH/BV-07-I	Push vCal – accepted	B	passed
47.	TP/OPH/BV-09-I	Push vCal – rejected	B	passed
48.	TP/OPH/BV-10-I	Push vCal - non support	B	passed
49.	TP/BCP/BV-01-I	Pull – List	B	passed
50.	TP/BCP/BV-03-I	PIN Check	B	passed
51.	TP/BCE/BV-01-I	Exchange – List	B	passed
52.	TP/BCE/BV-03-I	Exchange - PIN Check	B	passed
Note: --				

4 **HSP (Headset Profile):** Method of measurement: HSP.TS.1.1.3

Role: Audio Gateway

Number	Test Case Identifier	Description	Category	Verdict
53.	TP/IAC/BV-01-I	Inc Connect establ – AG	B	passed
54.	TP/ACR/BV-01-I	Connect release – HS	B	passed
55.	TP/ACR/BV-02-I	Connect release – AG	B	passed
56.	TP/ACT/BV-01-I	Connect transfer – HS initiated	B	passed
57.	TP/ACT/BV-02-I	Connect transfer – AG initiated	B	passed
Note: --				

5 HFP 1.5 (Hands Free Profile 1.5): Method of measurement: HFP.TS.1.5.8

Role: Audio Gateway

Number	Test Case Identifier	Description	Category	Verdict
58.	TP/TRS/BV-01-I	Transfer registration status	B	passed
59.	TP/PSI/BV-01-I	Transfer signal strength indication	B	passed
60.	TP/PSI/BV-03-I	Transfer battery level indication	B	passed
61.	TP/PSI/BV-04-I	Query Operator Selection	B	passed
62.	TP/ACS/BV-02-I	AG is IUT, AG Initiated, HF is SCO only	B	passed
63.	TP/ACS/BV-04-I	AG is IUT, HF Initiated, HF is SCO only	C	passed
64.	TP/ACS/BV-06-I	AG is IUT, AG Initiated, HF has eSCO	C	passed
65.	TP/ACS/BV-08-I	AG is IUT, HF Initiated, HF has eSCO	C	passed
66.	TP/ACS/BV-11-C	AG is IUT, HF Initiated eSCO with 18ms latency	C	passed
67.	TP/ACR/BV-01-I	Audio release - HF initiated	B	passed
68.	TP/ACR/BV-02-I	Audio release - AG initiated	B	passed
69.	TP/CLI/BV-01-I	Caller ID	B	passed
70.	TP/ICA/BV-04-I	Answer incoming call HF - no inband ring	B	passed
71.	TP/ICA/BV-05-I	Answer incoming call HF - no inband ring + audio connection	B	passed
72.	TP/ICA/BV-06-I	Answer incoming call AG	B	passed

73.	TP/ICR/BV-01-I	Reject incoming Call from HF	B	passed
74.	TP/ICR/BV-02-I	Reject incoming Call from AG	B	passed
75.	TP/TCA/BV-01-I	Terminate a Call - HF terminated	B	passed
76.	TP/TCA/BV-02-I	Terminate a Call - AG terminated	B	passed
77.	TP/TCA/BV-03-I	Terminate a Call - Remote party terminated	B	passed
78.	TP/TCA/BV-04-I	Outgoing Call Abandon from HF	B	passed
79.	TP/ATH/BV-04-I	HF Initiated Audio Transfer to the HF - SLC	B	passed
80.	TP/ATA/BV-01-I	AG initiated Audio transfer to the AG	B	passed
81.	TP/OCN/BV-01-I	Place call – phone number	B	passed
82.	TP/OCM/BV-01-I	Place call – memory	B	passed
83.	TP/OCM/BV-02-I	Place call – no number at memory location	B	passed
84.	TP/OCL/BV-01-I	Place call – last number	B	passed
85.	TP/OCL/BV-02-I	Place call – No last number stored in the AG	B	passed
86.	TP/CIT/BV-01-I	Incoming call interrupted - call terminated	B	passed
87.	TP/TDC/BV-01-I	Transmit DTMF	B	passed
88.	TP/ECS/BV-01-I	Query List of Current Calls	B	passed
89.	TP/ECS/BV-02-I	Sending of Correct Call Status on SLC Initialization	B	passed
90.	TP/ECS/BV-03-I	Transfer of Current Call Status to Held	B	passed
91.	TP/ECS/BV-04-I	Transfer of Current Call Status, Held Call Released	B	passed
92.	TP/NUM/BV-01-I	Query AG with Subscriber Number Information	B	passed
93.	TP/SLC/BV-01-C	HF Initiates SLC with 3-way	B	passed
94.	TP/SLC/BV-02-C	AG Initiates SLC with 3-way	B	passed
95.	TP/SLC/BV-03-C	HF Initiates SLC. No 3-way	B	passed
96.	TP/SLC/BV-04-C	AG Initiates SLC. No 3-way	B	passed
97.	TP/OOR/BV-01-I	AG reconnects to HF	B	passed
98.	TP/OOR/BV-02-I	HF reconnects to AG	B	passed
99.	TP/DIS/BV-01-I	Verify inquiry and discoverability	B	passed

Note: --

6 GAVDP (Generic A V Dist. Profile): Method of measurement: GAVDP_TS_C1.1_10

Role: Server

Number	Test Case Identifier	Description	Category	Verdict
100.	TP/APP/CON/BV-01-I	Verify that the IUT (INT) requests the ACP to establish a stream connection further to an internal event or user action.	B	passed
101.	TP/APP/TRC/BV-01-I	Verify that after a stream is established but not initiated, the IUT (INT) changes the application service parameters by a user action or an internal event.	B	passed
102.	TP/APP/TRC/BV-02-I	To verify that it is possible to suspend streaming by a user action or an internal event.	B	passed
Note: --				

7 HID (Human Interface Device Profile): Method of measurement: HID.TS.1.0.5

Role: Gateway

Number	Test Case Identifier	Description	Category	Verdict
103.	TP/HCE/BV-01-I	Host connection establishment	B	passed
104.	TP/HCE/BV-02-I	Device connection establishment	B	passed
105.	TP/HCE/BV-03-I	Device initiated reconnection	B	passed
106.	TP/HCE/BV-04-I	Host initiated reconnection	B	passed
107.	TP/HCR/BV-01-I	Host initiated connection release	B	passed
108.	TP/HCR/BV-02-I	Device initiated connection release	B	passed
109.	TP/HCR/BV-03-I	Host initiated virtual cable unplug	B	passed
110.	TP/HCR/BV-04-I	Device initiated virtual cable unplug	B	passed
111.	TP/HDT/BV-01-I	Device data transfer	B	passed
112.	TP/HDT/BV-02-I	Host data transfer	B	passed

113.	TP/HID/BV-01-C	Get_Report	B	passed
114.	TP/HID/BV-02-C	Set_Report	B	passed
115.	TP/HID/BV-03-C	Get_Protocol	B	passed
116.	TP/HID/BV-04-C	Set_Protocol	B	passed
117.	TP/HID/BV-06-C	Set_Idle	B	passed
118.	TP/HID/BV-07-C	HID_Control (Virtual cable unplug)	B	passed
119.	TP/HID/BV-09-C	Get_Protocol, Boot Mode	B	passed
120.	TP/HID/BV-10-C	Set_Protocol, Boot Mode	B	passed
121.	TP/DAT/BV-01-C	Short reports	B	passed
122.	TP/DAT/BV-02-C	Large reports on interrupt channel	B	passed
123.	TP/DAT/BV-03-C	Large reports on control channel	B	passed
Note: --				

8 A2DP 1.2 (Adv. Audio Dist. Profile): Method of measurement: A2DP.TS.1.1.6

Role: Source

Number	Test Case Identifier	Description	Category	Verdict
124.	TP/SET/BV-01-I	Est. Connect. - SRC	B	passed
125.	TP/SET/BV-02-I	Est. Connect. - SNK	B	passed
126.	TP/SET/BV-03-I	Start Stream. - SRC	B	passed
127.	TP/SET/BV-04-I	Start Stream. - SNK	B	passed
128.	TP/SET/BV-05-I	Restart Stream. - SRC	B	passed
129.	TP/SET/BV-06-I	Restart Stream. - SNK	B	passed
130.	TP/REL/BV-01-I	Release Stream. – SRC	B	passed
131.	TP/REL/BV-02-I	Release Stream. – SNK	B	passed
132.	TP/AS/BV-01-I	Streaming – SBC	B	passed
133.	TP/SC/BV-02-C	SBC Conformance - Encoder	C	passed
134.	TP/SDP/BV-01-I	SDP Interoperability SRC	B	passed
135.	TP/SDP/BV-01-I	SDP Interoperability SRC	B	passed
Note: --				

9 AVRCP 1.0 & 1.3 (AV Remote Control Profile): Method of measurement：AVRCP.TS.1.4.0

Role: Target

Number	Test Case Identifier	Description	Category	Verdict
136.	TP/CEC/BV-01-I	Connection establishment -CT	B	passed
137.	TP/CRC/BV-01-I	Connection release–CT	B	passed
138.	TP/CRC/BV-02-I	Connection release–TG	B	passed
139.	TP/ICC/BV-01-I	Information collection by UNIT INFO command	B	passed
140.	TP/ICC/BV-02-I	Information collection by SUBUNIT INFO command	B	passed
141.	TP/PTT/BV-01-I	PASS THROUGH command transfer-category 1	B	passed
Note: --				

10 PAN (Personal Area Network Profile): Method of measurement：PAN.TS.1.0.3

Number	Test Case Identifier	Description	Category	Verdict
142.	TP/PAN/BNEP/ BROADCAST-0/BV-01-C	Verifies that IUT is able to forward broadcast packets from the Bluetooth PAN to the wired network.	B	passed
143.	TP/PAN/BNEP/BROADCAST-1/BV-02-C	Verifies that IUT is able to forward broadcast packets from the wired network the Bluetooth PAN .	B	passed
144.	TP/PAN/BNEP/MULTICAST-0/BV-03-C	Verifies that IUT is able to forward multicast packets from the Bluetooth PAN to the wired network.	B	passed
145.	TP/PAN/BNEP/MULTICAST-1/BV-04-C	Verifies that IUT is able to forward multicast packets from the wired network to the Bluetooth PAN .	B	passed
146.	TP/PAN/BNEP/FORWARD-UNICAST/BV-05-C	Verifies that IUT is able to forward multicast packets from the Bluetooth PAN to the other network.	B	passed
147.	TP/PAN/BNEP/FORWARD-UNICAST/BV-06-C	Verifies that IUT is able to forward multicast packets from another network to the Bluetooth PAN .	B	passed

148.	TP/PAN/IPv4/Autonet/BV-01-I	Verifies that IUT is able to autogenerate an IPv4 address in an ad-hoc topology	B	passed
149.	TP/PAN/IP/DHCP/BV-03-I	Verifies that IUT is able to successfully use DHCP to obtain an IP address from a DHCP server in an infrastructure network topology.	B	passed
150.	TP/PAN/IP/DNS/BV-01-I	Verifies that IUT is able to perform DNS resolution in the infrastructure networking topology	B	passed
151.	TP/PAN/IP/APP/BV-01-I	Verifies that IUT is able to perform HTTP queries in both the ad-hoc and infrastructure topology	B	passed
152.	TP/PAN/IP/APP/BV-03-I	Verifies that IUT is able to send and receive ICMP packets in both the ad-hoc and infrastructure topology	B	passed
153.	TP/PAN/IP/APP/BV-04-I	Verifies that IUT is periodically checking for DHCP service to obtain an IP address.	B	passed
154.	TP/PAN/IP/APP/BV-05-I	Verifies that IUT is able to successfully respond to ICMP packets in both the ad-hoc and infrastructure topology	B	passed
155.	TP/PAN/SDP/NAP/BV-01-C	Verifies that IUT is able to advertise a proper SDP record for the NAP.	B	passed
156.	TP/PAN/MISC/UUID/BV-01-C	Verifies that IUT is able to process 32-bit UUIDs correctly.	B	passed
157.	TP/PAN/MISC/UUID/BV-02-C	Verifies that IUT is able to process 128-bit UUIDs correctly.	B	passed
Note: --				

5 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

Ref No.	Instrument / Ancillary	Type	Provider	Product ID
1.	Wireless Connectivity Test Set (Tester)	N4010A	Agilent	MY48100116
2.	Wireless Connectivity Test Set (Vector)	N4010A	Agilent	MY47230539
3.	Spectrum Analyzer	E4440A	Agilent	MY44303999
4.	Vector Signal Generator	E4438C	Agilent	MY42081549
5.	Analog Signal Generator	E8257D	Agilent	US45130535
6.	Vector Signal Analysis Software	89601A	Agilent	--
7.	Matrix Box	--	Hiper	--
8.	BRITS (Software)	--	Hiper	--
9.	Temperature Chamber	D-35447	Weiss	58226017340030
10.	Mobile Communications DC Source	DH 1718E-4	Da Hua Dian Zi	--
11.	Temperature&Humidity tester	608-H1	testo	98236
12.	Electromagnetism shielding house	AFGPII	Beijing An Fang Dian Ci Ping Bi Ji Shu Kai Fa Zhong Xin	D08004
13.	PTS	DEV-SYS-1487-1B	SIG	--

6 Test Environment

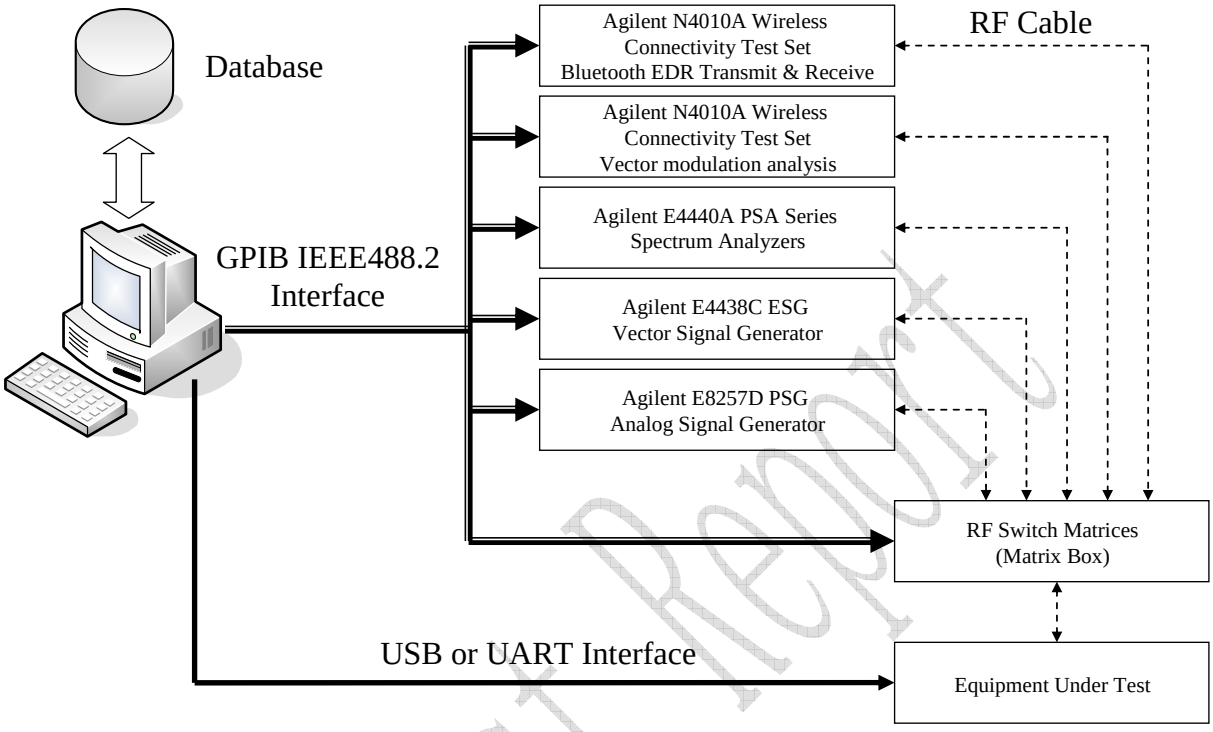
Nominal Temperature	25-28°C
Nominal Humidity	25% – 65%
Low Temperature	-10 ºC
High Temperature	55ºC
Nominal Voltage	3.8 V DC
Low Voltage	3.6 V DC
High Voltage	4.3 V DC

Annex A: Deviations from Prescribed Test Methods

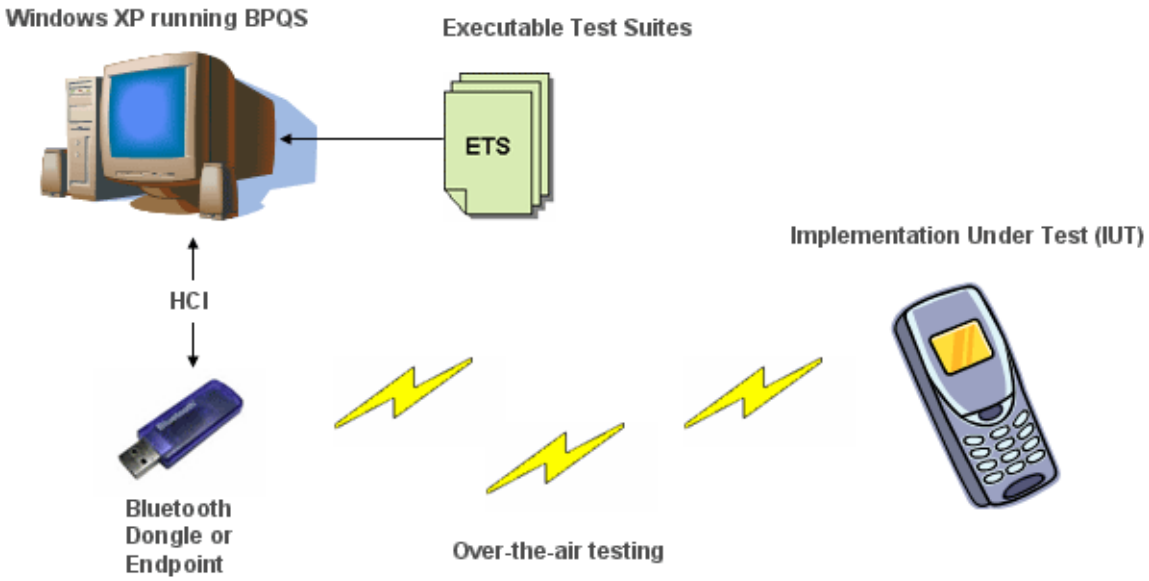
No deviation from prescribed test methods in :
RF.TS/2.1.E.1. IOPT_TS OPP.TS.1.1.6 HSP.TS.1.1.3 HFP.TS.1.5.8 GAVDP_TS_C1.1_10 HID.TS.1.0.5 A2DP.TS.1.1.6 AVRCP.TS.1.4.0 PAN.TS.1.0.3

Annex B: Test Setup

1 RF:



2 Profile:



Annex C: ICS/IXIT

See the ICS/IXIT as below provided by the client in the folder I08GW7473(ON TIM TECHNOLOGIES LTD CARSIRA)RF.

I08GW7473 SUM_ICS_2_1_E_1[1](SUM ICS Appendix A to Declaration of Compliance_ Summary of Selected Specifications in Implementation)
I08GW7473 RF.ICS.2.1.E.0
I08GW7473 BluetoothSIG_1.2_PIXIT_v_1.2
I08GW7473 A2DP.ICS.1.1.4_hummer
I08GW7473 AVRCP.ICS.1.4.0_hummer
I08GW7473 GAVDP.ICS.1.1.4_hummer
I08GW7473 HFP.ICS.1.5.5_hummer
I08GW7473 HID.ICS.1.0.4_hummer
I08GW7473 HSP.ICS.1.1.2_hummer
I08GW7473 OPP.ICS.1.1.2_hummer
I08GW7473 PAN.ICS.1.0.4a_hummer

Annex D: BRITS Calibration Record

Calibration date：Jul. 31st 2008, Valid until Jul. 30th 2009.

Annex E: Test Report Revision History

Version	Date	Author(s)	Description
001	Mar/25/09	Zhang Zhiwei	First Version

The End of this Report