



Over-the-Air (OTA) Test Report

Engineering Test Report	2403093-06 Rev A
Product Name Brand/Model No.	Accu-Chek Instant Blood Glucose Meter 980mmol/L
EUT Type	Integrated Device
Manufacturer Name	Roche Diabetes Care Inc
Manufacturer Address	9115 Hauge Rd Indianapolis, IN 46250 UNITED STATES
Requested By	Dave Chandler
PO Number	4170046184
Test Dates	10/6/2025
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle Downers Grove, IL 60515
Signature	
Tested by	John Peters Senior Wireless Test Engineer
Signature	
Approved by	Raymond J. Klouda, Registered Professional Engineer of Illinois – 44894

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

This report shall not be reproduced, except in full, without the written approval of Elite Electronic Engineering Inc.

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specification(s). The data presented in this test report pertains to the EUT on the test date(s) specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification. This report must not be used to claim product certification, approval, or endorsement by A2LA, CTIA, or any other agency.

1. REPORT REVISION HISTORY

Revision	Date	Description
-	9/23/2025	Initial Release of Engineering Test Report No. 2403093-06
A	10/16/2025 By John Peters	- Throughout the report: Updated Report Number to 2403093-06 Rev A. - Cover Page: Updated the Test Date. - Section 3.1 - Evaluation Frequencies: Updated test frequencies. - Section 3.1 - Notes: Updated device programming notes. - Section 7.1: Updated the temperature and humidity. - Section 7.2: Updated the results table. - Section 8: Updated all plots.

2. TABLE OF CONTENTS

DESCRIPTION OF CONTENTS	PAGE NO.
1. REPORT REVISION HISTORY	2
2. TABLE OF CONTENTS	3
3. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT).....	4
3.1. Product Description	4
3.2. EUT Photographs	5
4. LIST OF TEST EQUIPMENT:	9
5. MEASUREMENT UNCERTAINTY BUDGET:.....	9
6. TEST METHOD	10
6.1. Radiated Test Setup (TRP)	10
7. SUMMARY OF TEST RESULTS	10
7.1. Environmental Conditions:.....	10
7.2. Total Radiated Power (TRP)	10
8. PLOTS.....	11
8.1. 3D TRP- Free Space	12
8.2. 2D TRP- Free Space	15

3. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

3.1. Product Description

Product Description		
Integrated Device		Accu-Chek Guide Me Blood Glucose Meter 980mmol/L
HW Version		0189-113
SW Version		GenTest V3.5.6
EUT Dimensions		8 x 5 x 1.5 cm
Primary Mechanical Mode		Free-Space
Serial Number		98022584718
Device Quantity		1
Antenna Type		F-type PCB Trace
Evaluation Frequencies		2404MHz, 2444MHz, 2480MHz
Notes:		The EUT was programmed using the customer's laptop, a USB cable, GenTest software, and batch file using Windows Command Prompt. Commands: "1" to Turn on the BLE device "J" to Set max DTM power to 0dBm "G" to Turn on modulated signal at channel 0 ":" to Turn on modulated signal at channel 19 "/" to Turn on modulated signal at channel 39 The EUT would not continue to transmit if the USB cable was disconnected so the laptop was present during testing.
Input Power	Internal	3.2VDC
	External	N/A

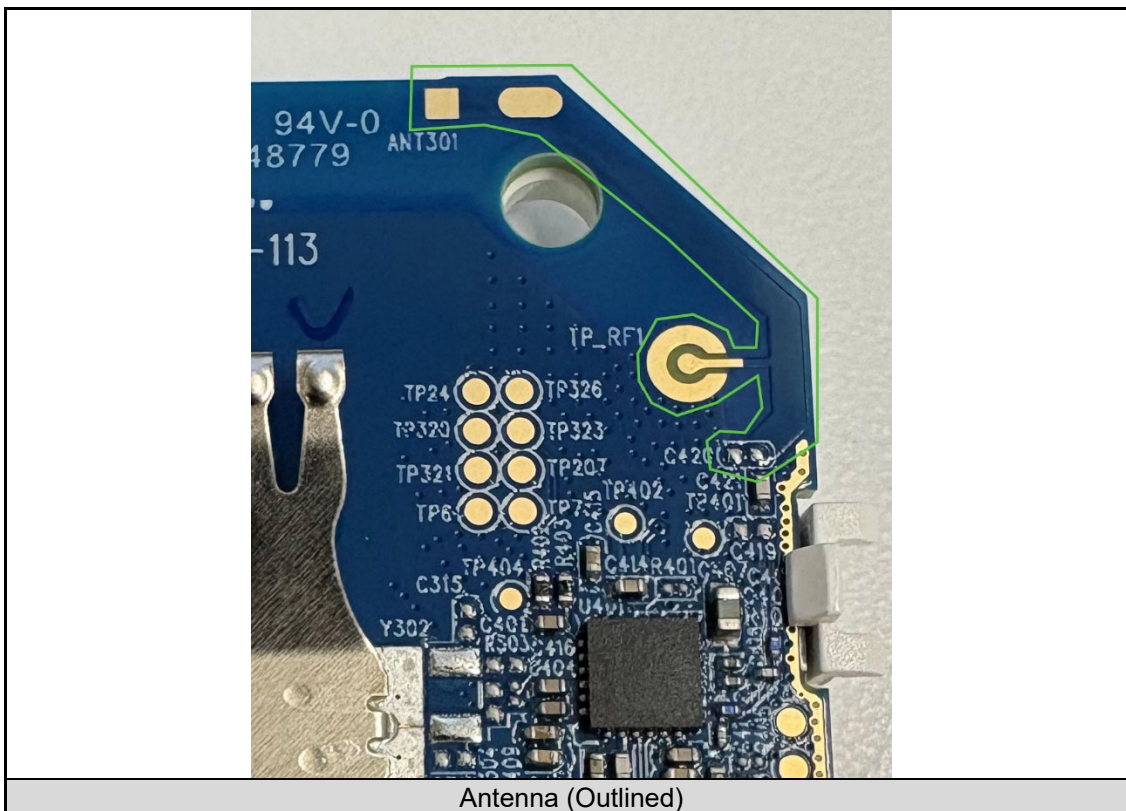
3.2. EUT Photographs

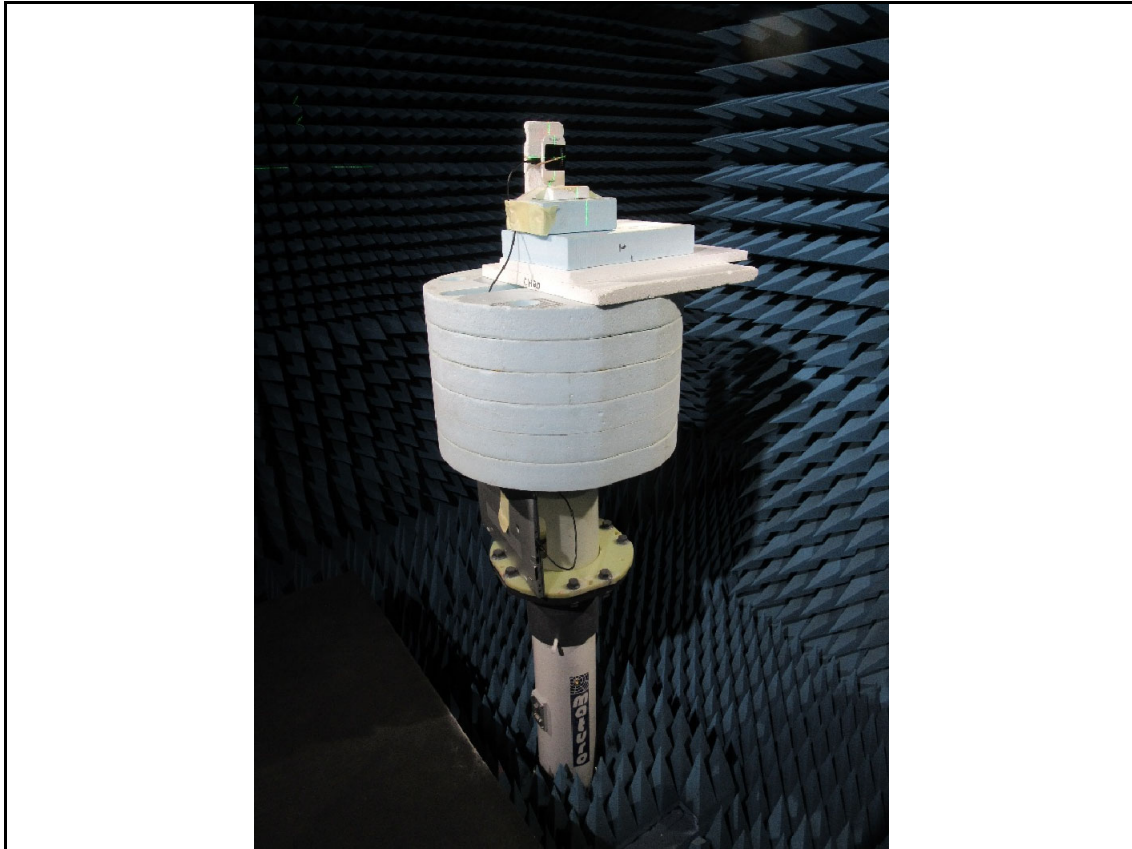


Front

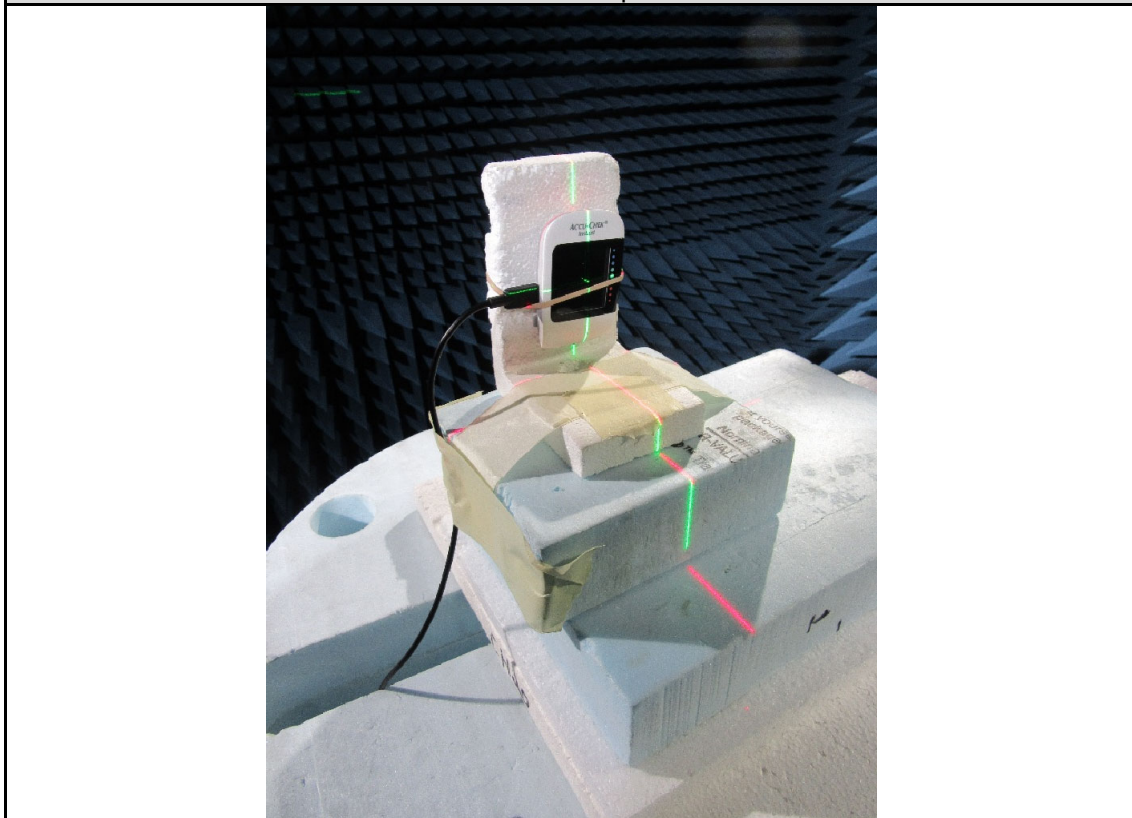


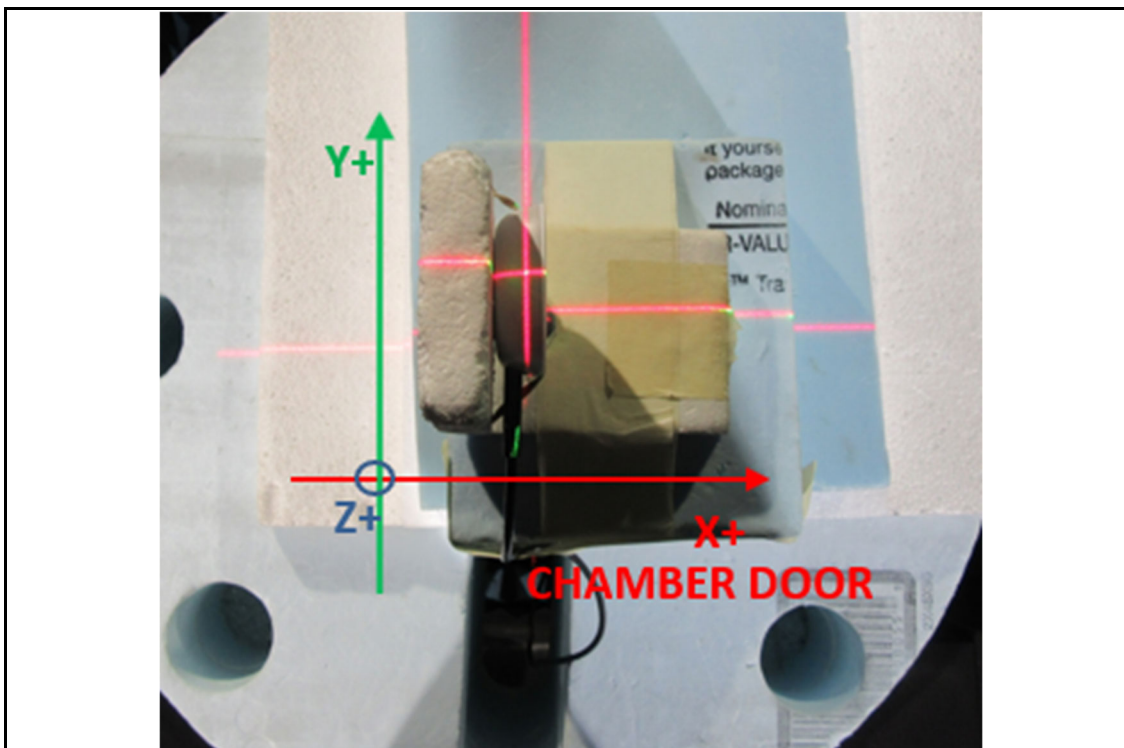
Back



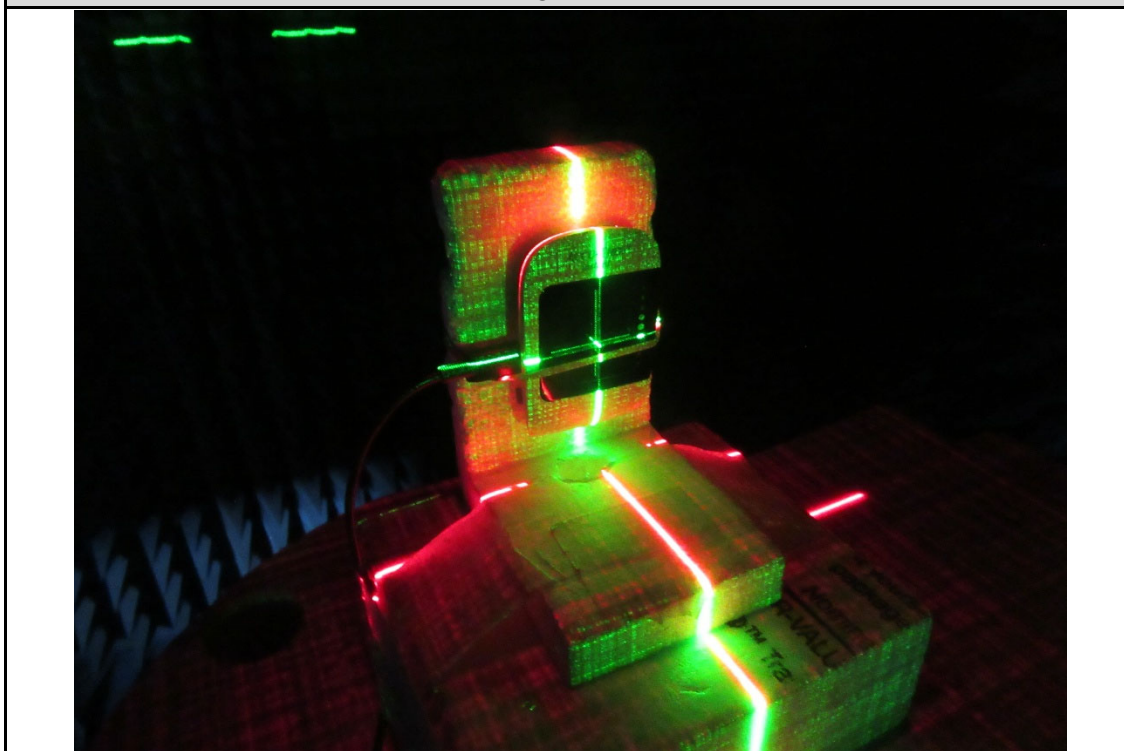


EUT Setup





Plot Orientation



Laser Alignment

4. LIST OF TEST EQUIPMENT:

Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
EMI ANALYZER	ROHDE & SCHWARZ	ESW26	103067	2HZ-26GHZ	3/9/2025	3/9/2026
OSP130	ROHDE & SCHWARZ	OSP130	101195	---	Part of the System Calibration	
OSP150	ROHDE & SCHWARZ	OSP150	101024	---		
ROOM 20 WIRELESS CHAMBER	ROHDE & SCHWARZ	WPTC-M	-	600-6GHz		

5. MEASUREMENT UNCERTAINTY BUDGET:

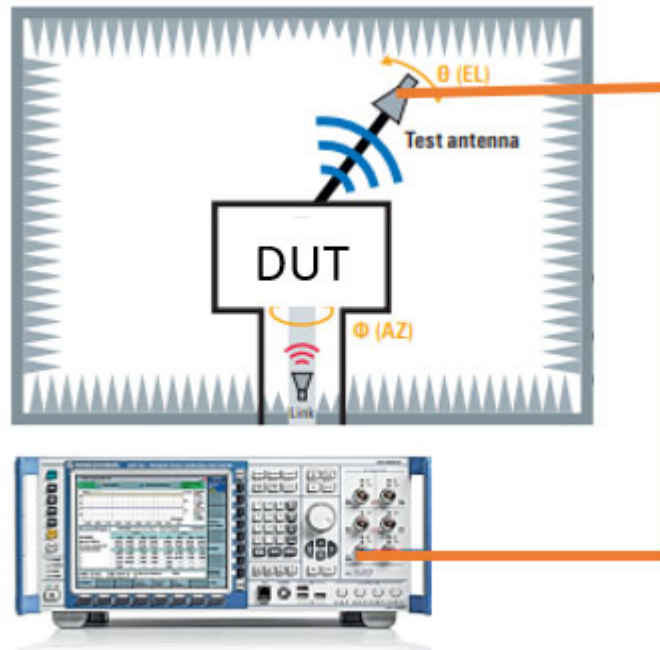
Measurement Uncertainty (k=2, 95% Confidence Interval)											
	TRP (dB)										
	LTE600	LTE700	Cell	GNSS E1,L1	AWS-1 Tx/LTE	PCS /LTE	AWS-1 Rx/LTE	LTE	LTE	WLAN	WLAN
Frequency (MHz)	617-698	699-798	814-894	1574-1606	1695-1780	1850-2020	2110-2180	2300-2800	3300-3800	2400-2500	5150-5825
FREE SPACE (< 30cm)	1.32	0.93	0.85		0.74	0.78		0.54	0.99	1.17	1.36

6. TEST METHOD

6.1. Radiated Test Setup (TRP)

TRP (Total Radiated Power) is a figure of merit for the transmitter performance of the EUT. The radiation pattern is measured every 10° in azimuth and 15° in elevation using dual-linear polarized test antenna to capture two principal polarizations, Theta, and Phi, either simultaneously or sequentially. At each position and for each polarization, the Equivalent Isotropic Radiated Power (EIRP) is measured and the TRP corresponds to the spatial average of EIRP values taken uniformly around the EUT.

The uplink performance was characterized by the R&S ESW26 in spectrum analyzer mode for the frequency of interest using Zero-Span Max Peak and 3MHz RBW settings. TRP data can be found in Section 7.2 and antenna plots in Section 8.



7. SUMMARY OF TEST RESULTS

7.1. Environmental Conditions:

The temperature at the time of the test was 22.8°C and the relative humidity was 31%.

7.2. Total Radiated Power (TRP)

FREESPACE				
Frequency (MHz)	Peak EIRP	Total Radiated Power	Directivity	Peak Gain
	(dBm)	(dBm)	(dBi)	(dBi)
2404MHz	2.16	-3.69	5.84	2.16
2444MHz	2.73	-4.26	6.99	2.73
2480MHz	2.08	-4.68	6.76	2.08

8. PLOTS

