

OTA PASSIVE ANTENNA TEST REPORT, APPENDIX

1. SUMMARY

This document relates to test report document Passive_OTA_test_report_ID5993_Navigator_15042025.

1.1 Test Details

Devices under Test (DUT):

Product:	Navigator
Note	Different antennas were tested using 3 separate device samples. SubGHz Low Band was measured in Anechoic Chamber 1, other measurements were done in Anechoic Chamber 4. Extrapolated calibration target values were used for SubGHz Low Band measurements.
Manufacturer info:	-
SW Info:	-
DUT number:	22081 (Cellular Main, Cellular Secondary, GNSS) 21251 (SubGHz Low Band, SubGHz High Band) 21234 (Wi-Fi / Bluetooth)
Tested Frequencies [MHz]	Cellular Low Band: 695-960 MHz in 5 MHz steps Cellular Mid-High Band: 1710-2700 MHz in 10 MHz steps GNSS: 1560-1616 MHz in 2 MHz steps SubGHz Low Band: 433-435 MHz in 1 MHz steps SubGHz High Band: 865-927 MHz in 1 MHz steps Wi-Fi / Bluetooth: 2400-2485 MHz in 5 MHz steps

Testing information:

Testing performed:	14.2.2024 (Cellular, GNSS), 27.2.2024 (SubGHz Low Band), 7.3.2024 (SubGHz High Band), 15.3.2024 (WiFi/Bluetooth)
Notes:	This appendix relates to test report Passive_OTA_test_report_ID5993_Navigator_15042025
Document name:	Passive_OTA_test_report_ID5993_Navigator_15042025_Appendix
Temperature °C / Humidity RH%	22±2 / 25%±10%
Measurement performed by:	Veli-Matti Niemitälo, Mikko Piilola
Document history:	15.4.2025 Initial version

2. TEST SETUP IMAGES

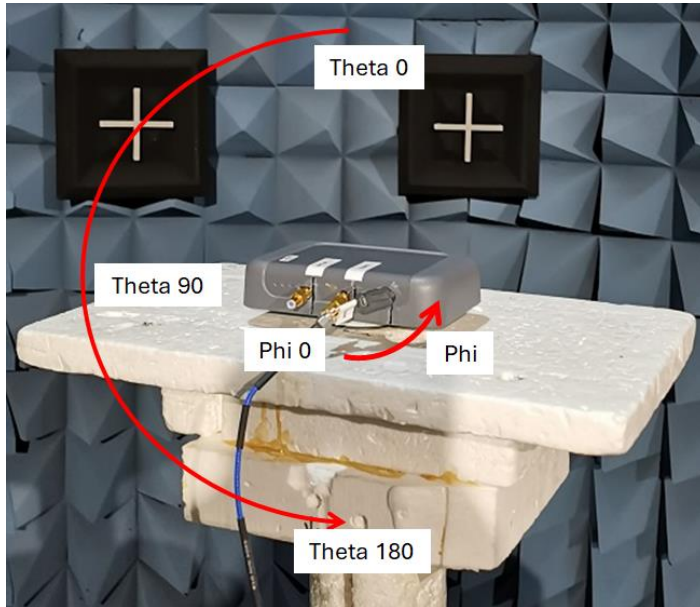


Figure 1 DUT 22081 in free space passive measurement and coordinate system

Vertical laser in DUT setup position denotes $\phi=0$, horizontal laser denotes $\theta=90$. Theta 0 is directly up from DUT, and theta 180 is down from DUT.

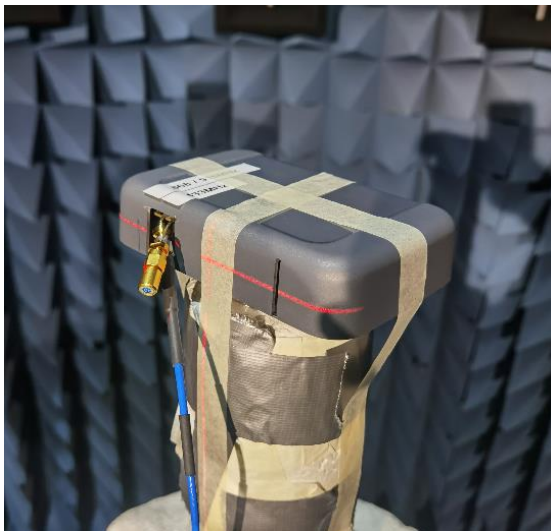


Figure 2 DUT 21251 in free space passive measurement (SubGHz High Band, Chamber 4)

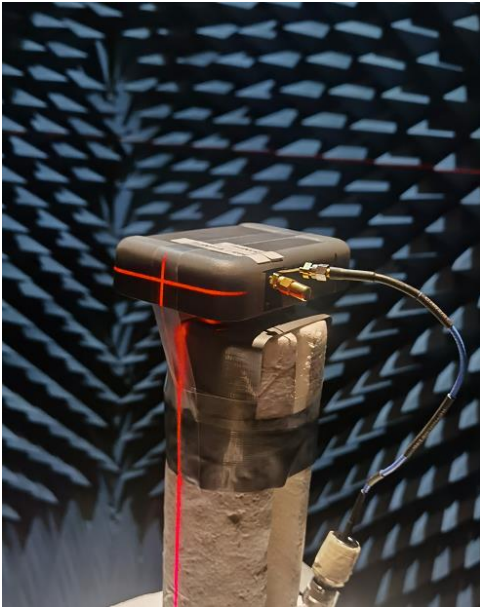


Figure 3 DUT 21251 in free space passive measurement (SubGHz Low Band, Chamber 1)



Figure 4 DUT 21234 in free space passive measurement