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<p>Title: Smart-EX 03 antenna specification</p>	<p>Revision: B</p>	
<p>Prepared by: <i>TKurj</i></p>	<p>Issue Date: <2023-11-28></p>	

Smart-EX 03 Antenna specification

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1. MODEL NAME OF ANTENNAS

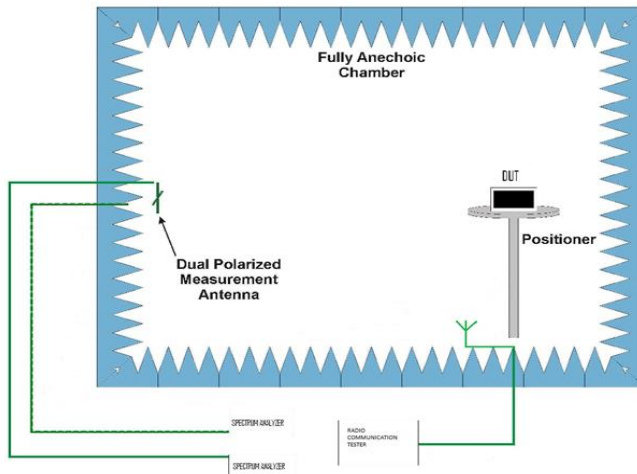
- WWAN ANTENNAS: Smart-EX 03
- WIFI ANTENNAS: Smart-EX 03

2. MEASUREMENT STANDARD

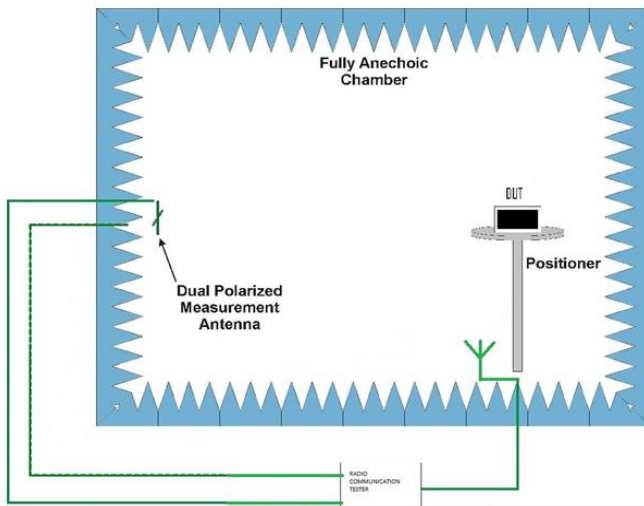
CTIA-Certification-Test-Plan-for-SISO-Over-the-Air-Performance-3.9.5


3. TEST SETUP

Measurement setup TRP



Measurement setup TIS



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4. WWAN ANTENNAS

4.1. Antenna Types

- PIFA Antennas (LDS technology)

4.2. Peak Gain

	600-700Mhz	700-800Mhz	800-900Mhz		
Peak EIRP (dBm)	19.3	21.8	21.4		
Gain (dBi)	-2.4	-1.0	-1.2		
	1700-1800Mhz	1800-1900Mhz	1900-2000Mhz	2300Mhz	2500-2700Mhz
Peak EIRP (dBm)	23.1	23.1	22.4	23.5	22.0
Gain (dBi)	0.5	2.0	-0.2	0.9	-0.4
	3300-3800Mhz	3800-4200Mhz	4200-5000Mhz		
Peak EIRP (dBm)	27.5	21.5	19.1		
Gain (dBi)	2.5	-2.9	-4.2		

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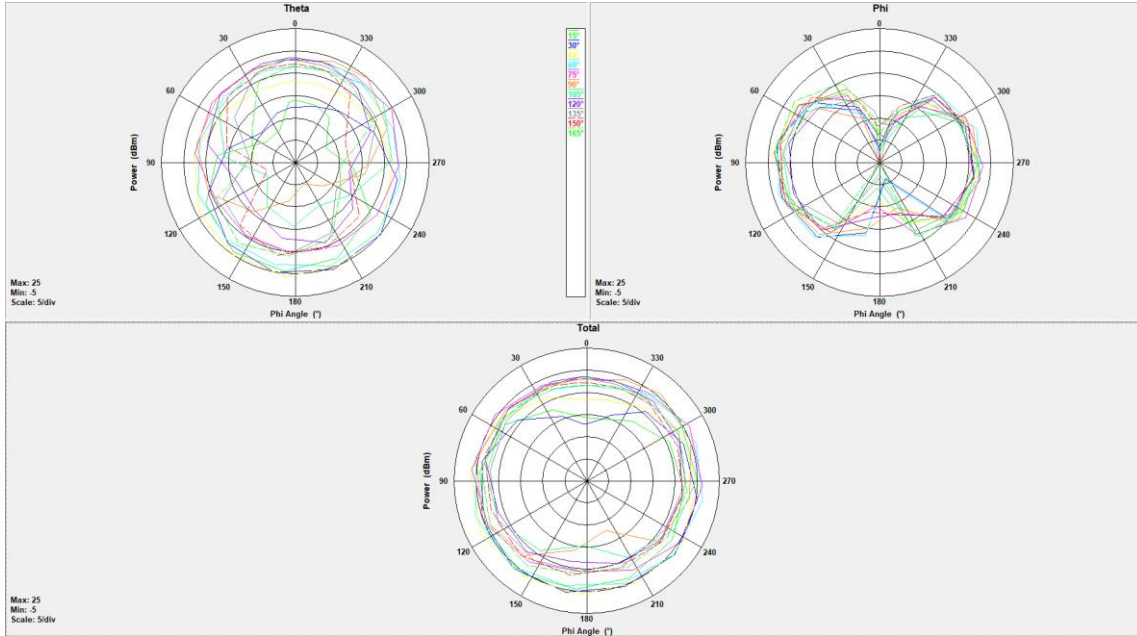
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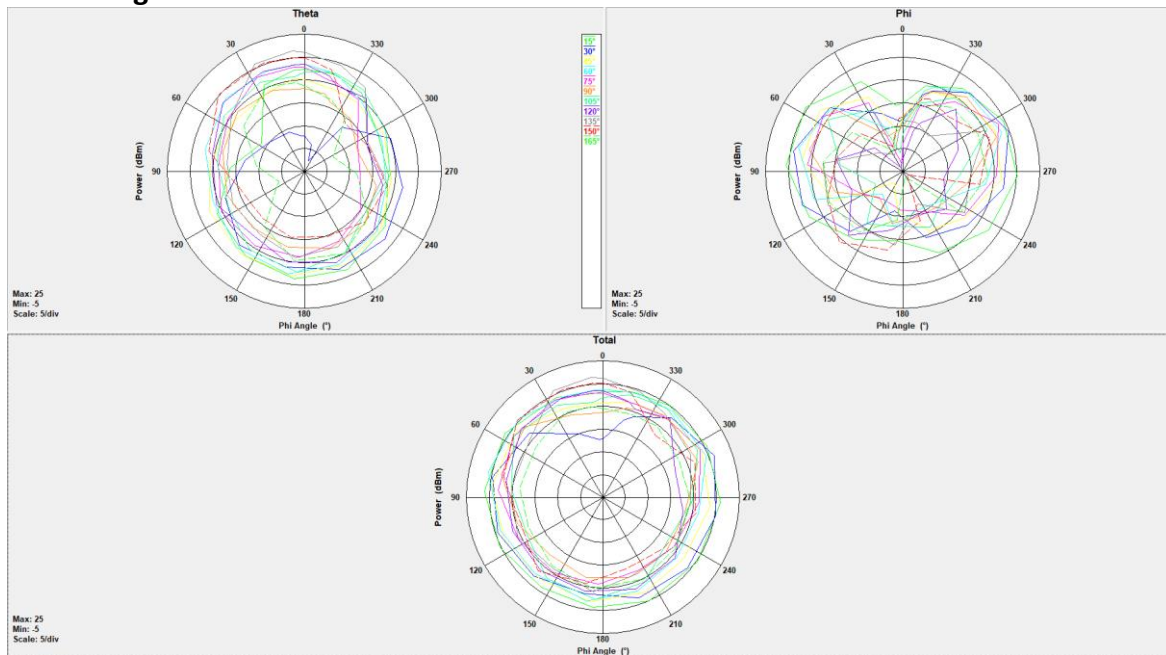
Issue Date: <2023-11-28>

4. 3. WWAN Patterns

Low Band:



Middle High Band:



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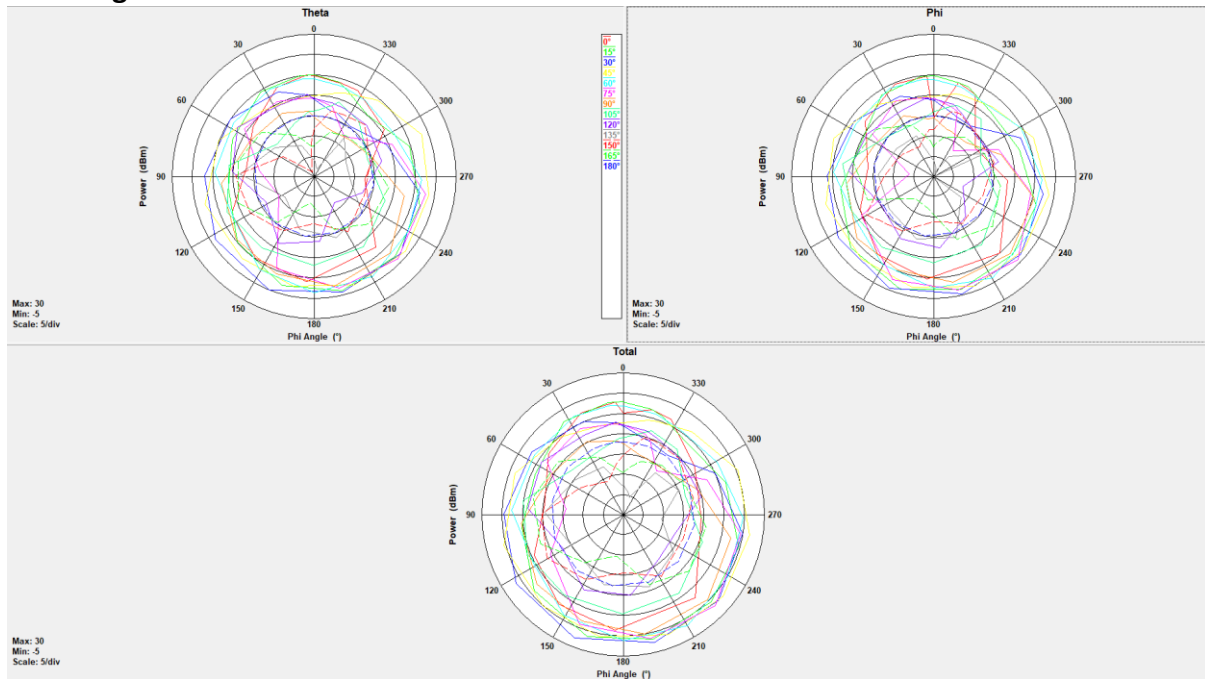
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Ultra-High Band:



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5. WIFI ANTENNAS

5.1. Antenna Types

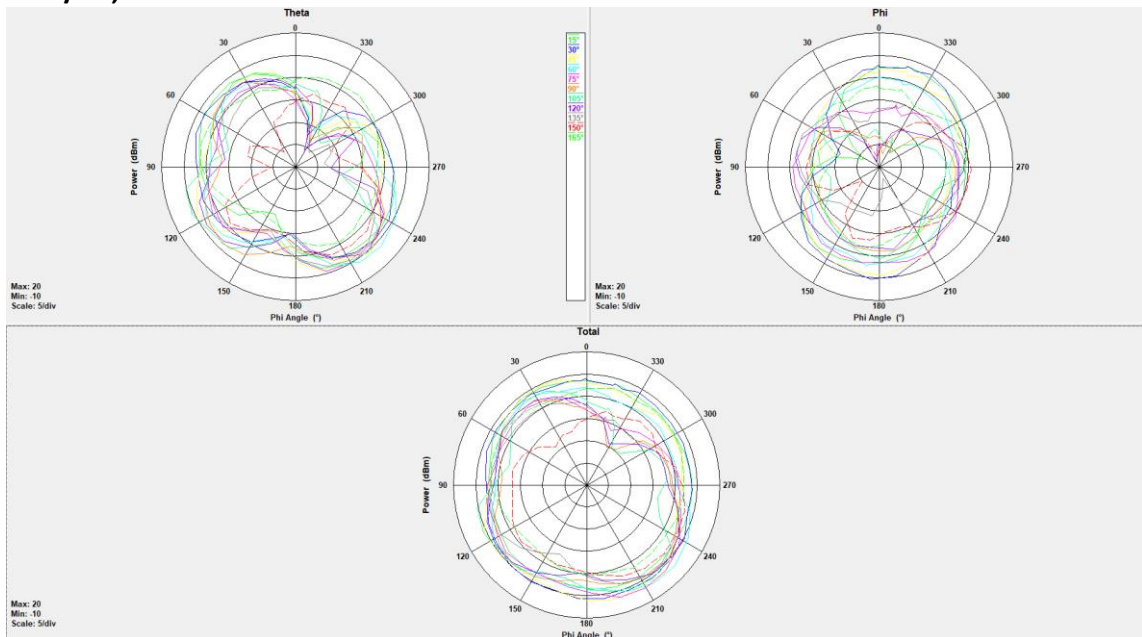
- PIFA Antennas (LDS technology)

5.2. Peak Gain

	2400-2500Mhz	5180-5900Mhz	5900-71250Mhz
Peak EIRP (dBm)	16.2	19.8	19.4
Gain (dBi)	-0.1	1.6	1.7

5.3. WIFI Patterns

WIFI/BT, 2.4GHz



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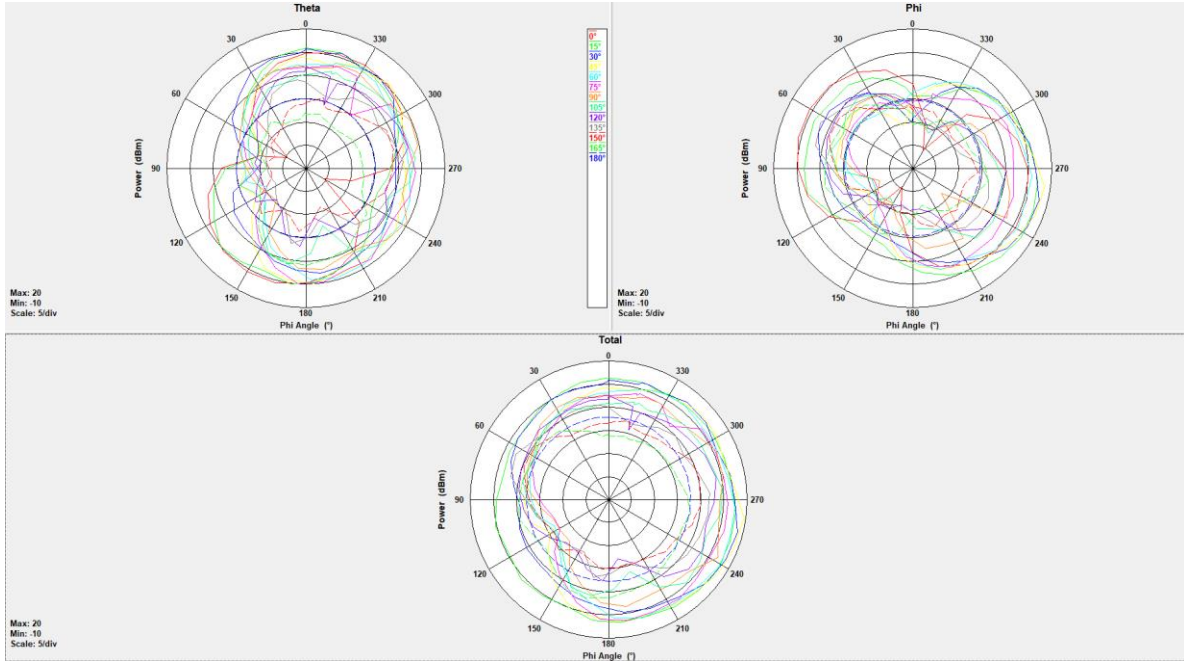
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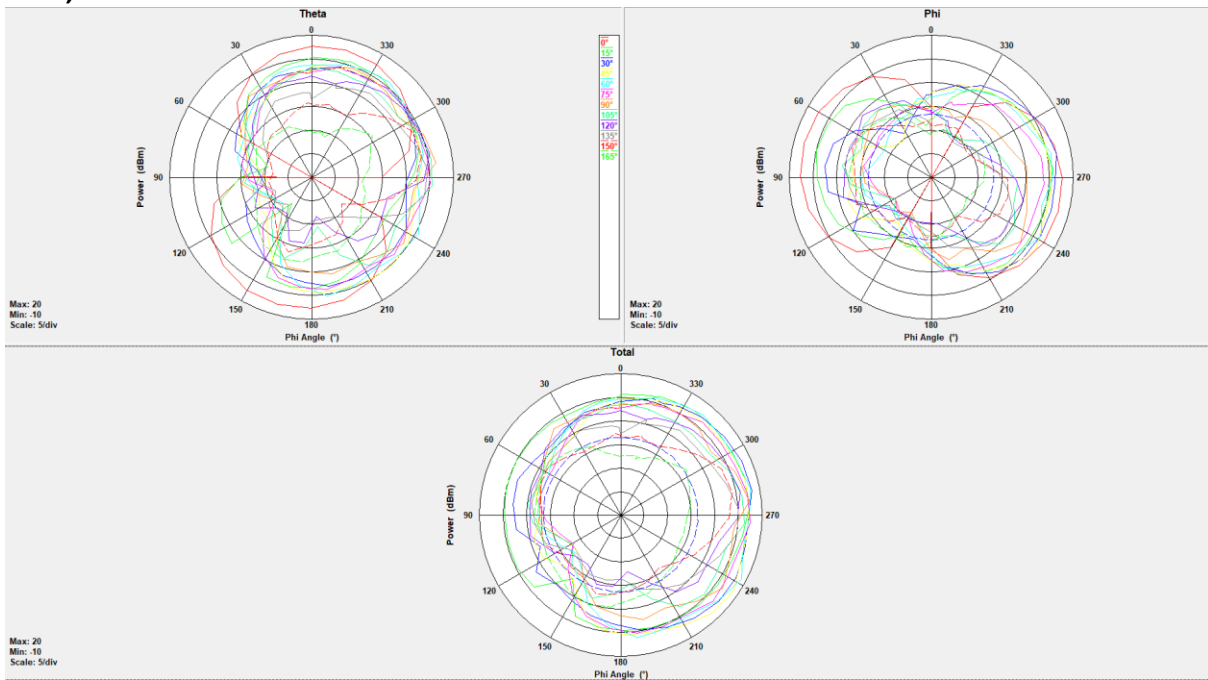
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WIFI, 5GHz




WIFI, 6GHz



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Change History

Version (Rev X)	Date (YYYY-MM-DD)	Author	Change Reason or CR No.	Modify Contents and Location
Rev A	2023-10-10	TKurj		
Rev B	2023-11-28	TKurj		

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R&D Manager	
Chief Engineer	

Approved By

Role	Name	Signature	Date (YYYY-MM-DD)
GPM			