

Antenna Specifications

CUSTOMER		AVA Innovations AG	
CS P/N		SR40	
HX P/N		<u>A56-006-SR40</u>	
Checked by(RF)	Checked by(ME)	Checked by(QA)	Approval led by
Customer Approval			

1. General Description

This document provides the antenna specifications on electric, mechanic and reliability. The testing conditions and related pictures are also included.

1.1 Print Acceptance

Samples and Antenna Specifications are to be sent to customer. When they are approved, the approval form should be completed, signed, and sent back to HX before further mass production batches can be delivered.

1.2 Coordinate System

The coordinate system for the phone is defined as follows:

- Origin in center of gravity.
- Positive X axis is perpendicular to, and directed from, front plane.
- Positive Y axis is perpendicular to, and directed from, right side plane (as seen from front).
- Positive Z axis is perpendicular to, and directed from, top plane.

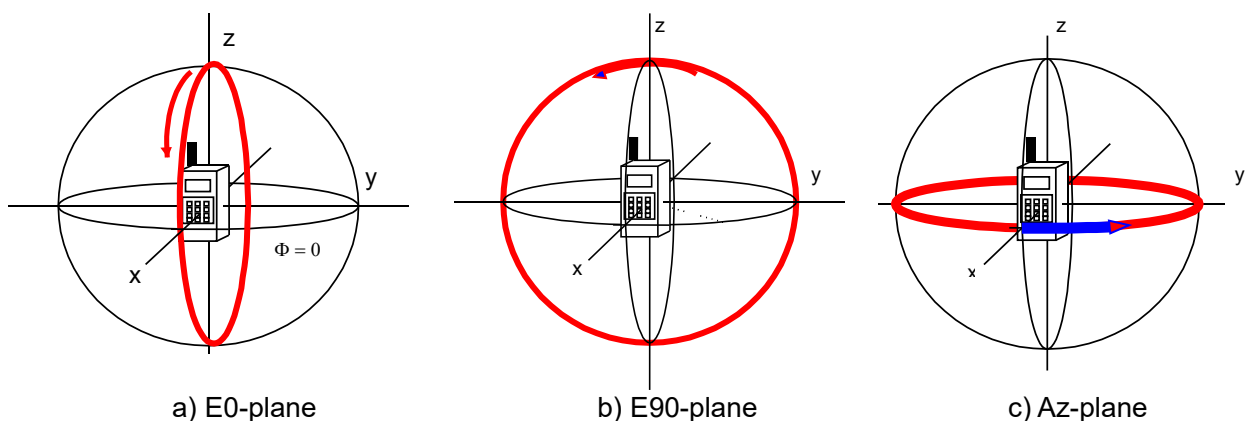


Figure 1-1 The coordinate system for the phone

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2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---SR40 Figure 2-1 shows the antenna designed by HX & The fixturing of SR40

Figure 2-1 The antenna designed by HX & The fixturing of SR40

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2.1 Antenna frequency band and switching logic

Mode	frequency
WIFI	2412-5825MHz
BT	2400-2500MHz
NFC	13.56 MHz

2.2 Passive Measurements

2.2.1 Passive efficiency of antenna

WIFI/BT antenna

(MHz)	Effi	Peak	Effi
	(dB)	(dBi)	(%)
2400	-7.36	-3.56	19.39
2410	-7.14	-3.47	20.32
2420	-7.07	-3.46	20.65
2430	-7.12	-3.7	20.4
2440	-7.03	-3.55	20.82
2450	-6.99	-3.59	20.98
2460	-7.07	-3.8	20.65
2470	-7.14	-4.04	20.31
2480	-7.29	-4.2	19.65
2490	-7.48	-4.37	18.86
2500	-7.76	-4.83	17.76

(MHz)	Effi	Peak	Effi
	(dB)	(dBi)	(%)
5100	-11.75	-7.22	5.31
5140	-11.78	-6.37	5.27
5180	-11.62	-6.55	5.47
5220	-11.93	-7.14	5.1
5260	-11.41	-6.75	5.74
5300	-11.43	-6.01	5.71
5340	-11.32	-6.17	5.87
5380	-11.04	-5.63	6.25
5420	-10.85	-5.25	6.57
5460	-10.92	-5.85	6.72
5500	-10.73	-5.25	6.98
5540	-10.98	-5.73	6.34
5580	-10.83	-5.77	6.56
5620	-10.61	-5.51	6.9
5660	-10.65	-5.1	6.84
5700	-10.59	-5.65	6.93

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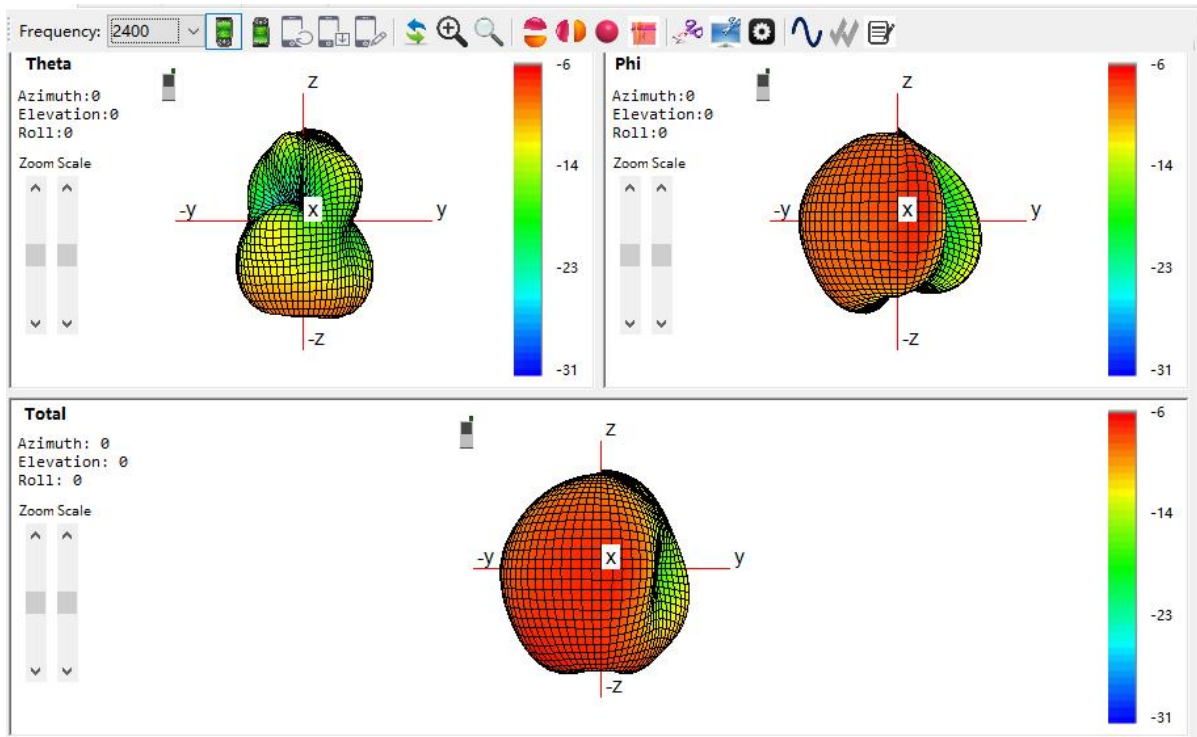
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5740	-10.26	-4.88	7.49
5780	-9.84	-4.45	8.24
5825	-9.98	-4.55	7.99

(MHz)	Effi (dB)	Peak (dBi)	Effi (%)
13.56	-2.64	1.5	6.46

2.2.2 2D 3D Radiation pattern

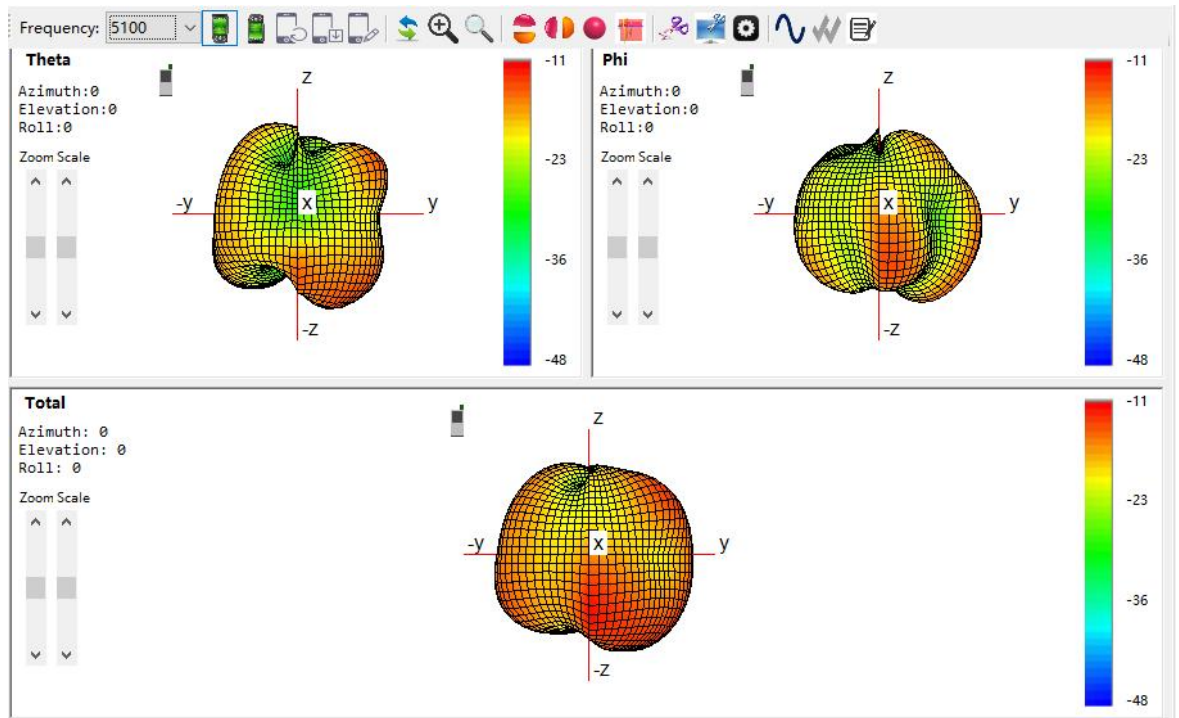
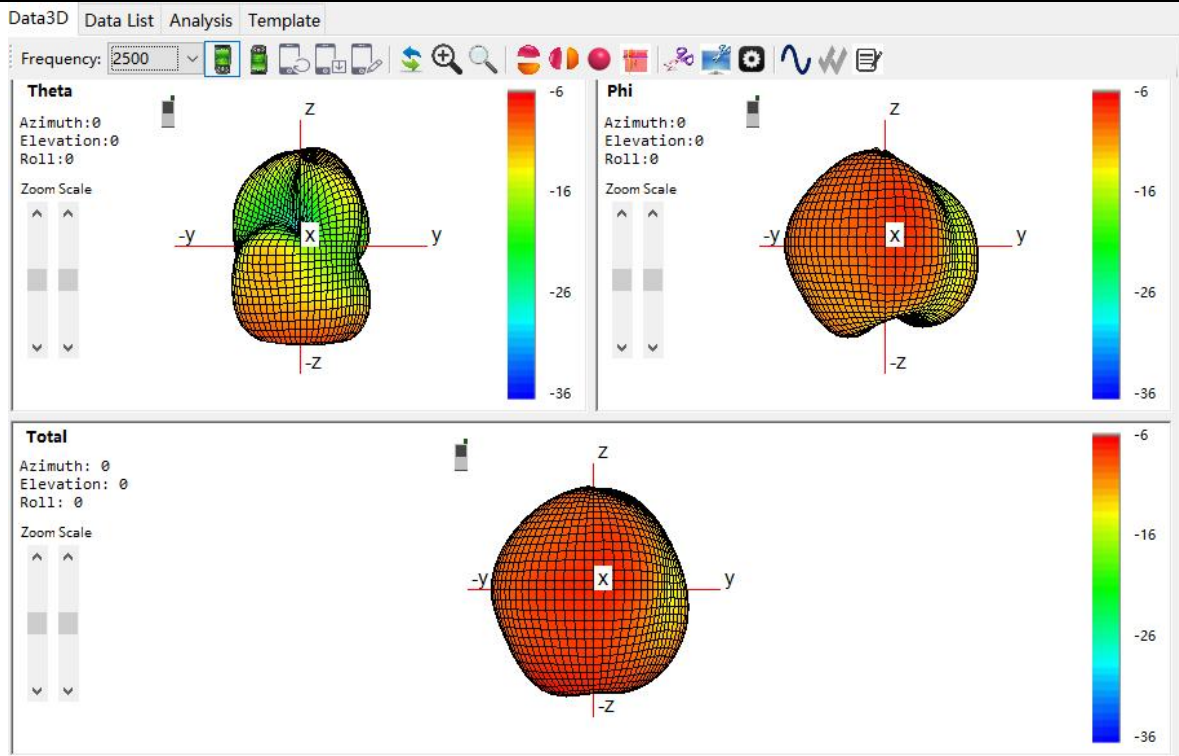


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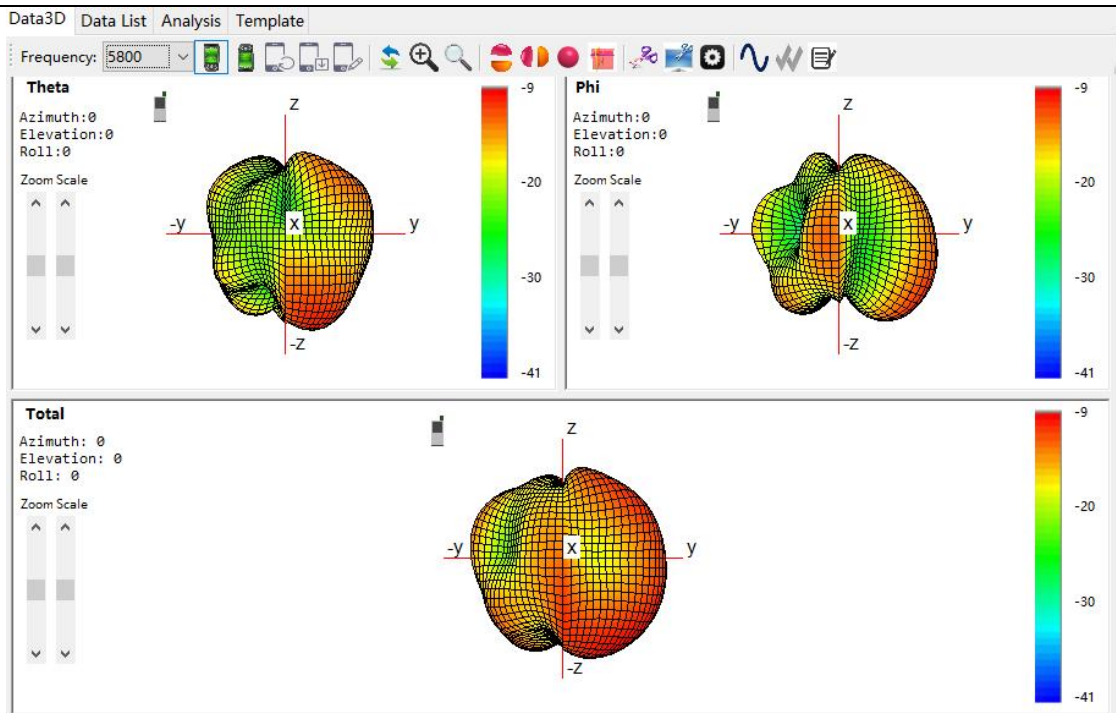
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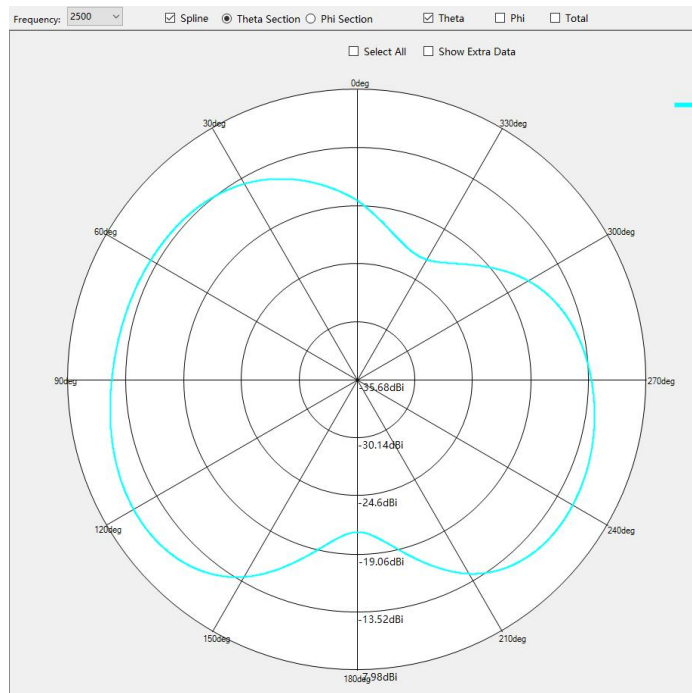
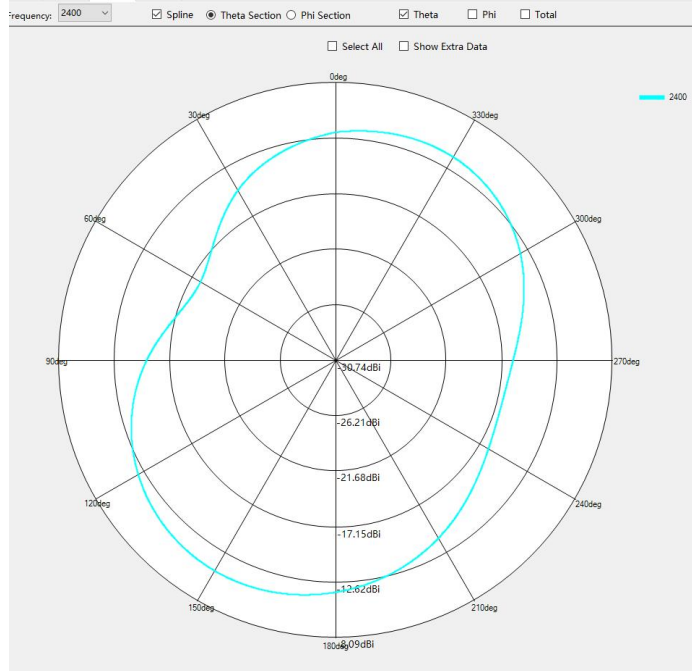


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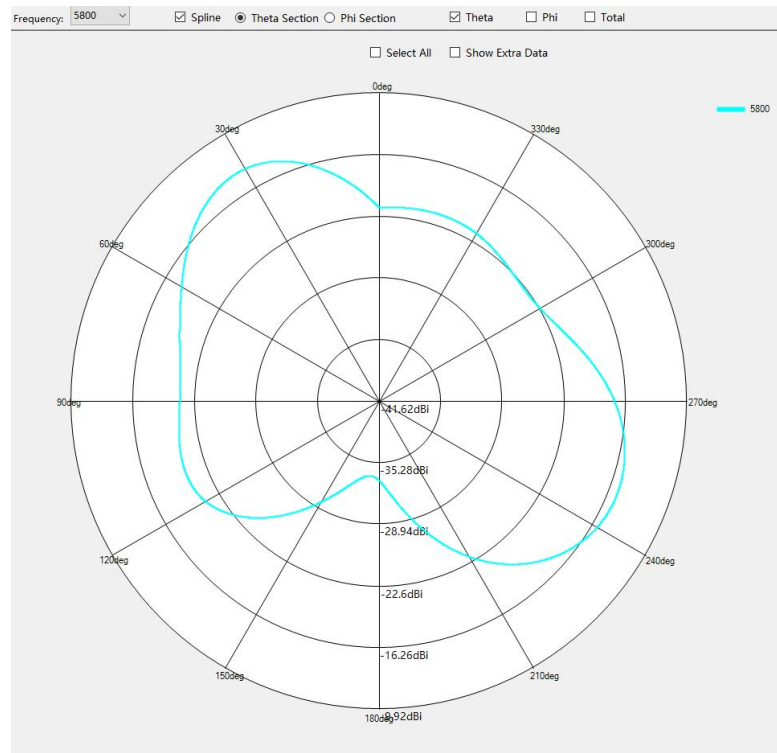
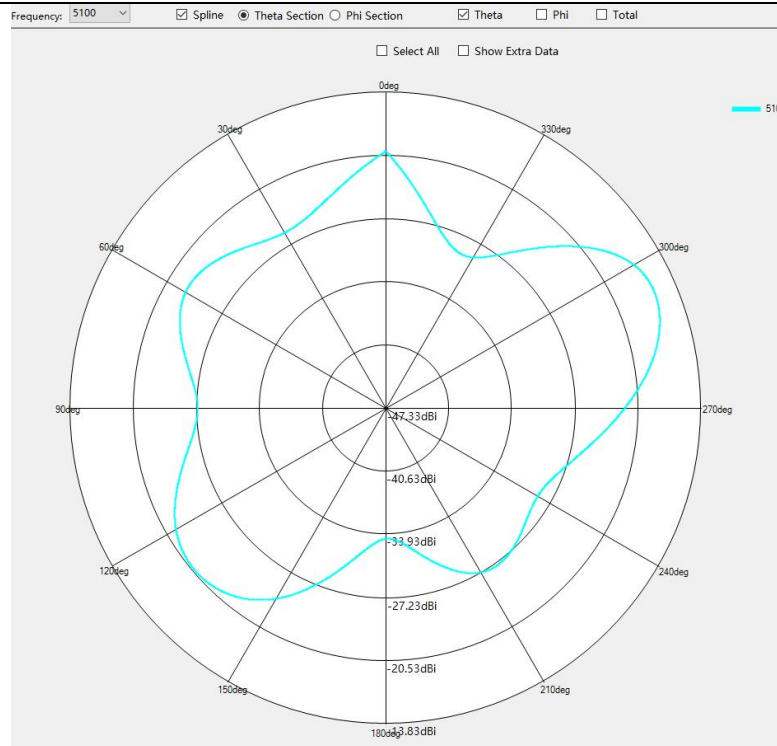


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