
Antenna Reports

Tesla VzW

Test lab: Motorola internal lab (GTS)

Issue date: 2022/6/28

Peak Gain

ANT0

Antenna model name: Insert molding metal with LDS

Antenna type: IFA

BAND	Peak Gain(dBi)
GSM 850	-7.4
GSM 900	-9
GSM 1800	-5
GSM 1900	-4.2

BAND	Peak Gain(dBi)
WCDMA B1	-4.2
WCDMA B2	-4.2
WCDMA B5	-7.4
WCDMA B8	-9

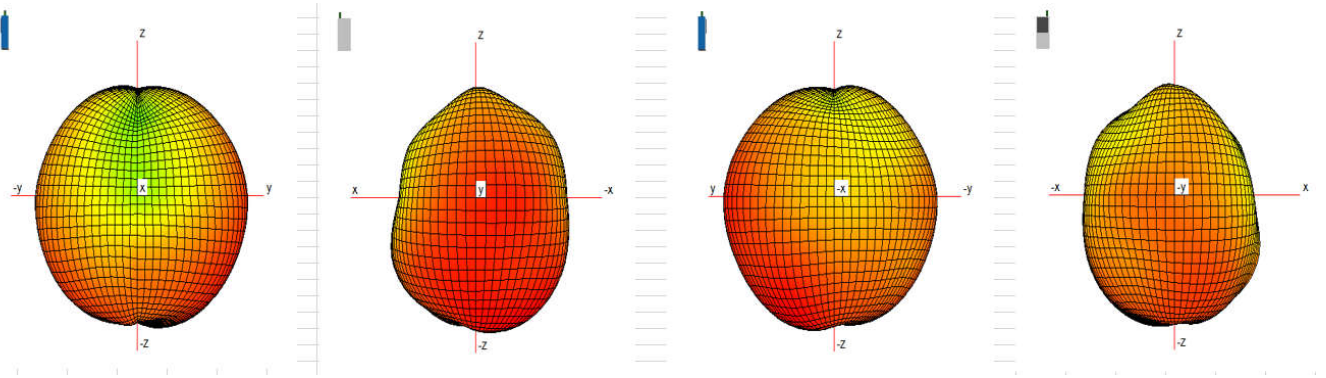
LTE BAND	Peak Gain(dBi)
LTE B1	-4.2
LTE B2	-4.2
LTE B3	-5
LTE B4	-5
LTE B5	-7.4
LTE B7	-7
LTE B12	-6.8
LTE B13	-7.5
LTE B20	-7.5
LTE B66	-5

NR FR1 BAND	Peak Gain(dBi)
N2	-4.2
N5	-7.4
N66	-5

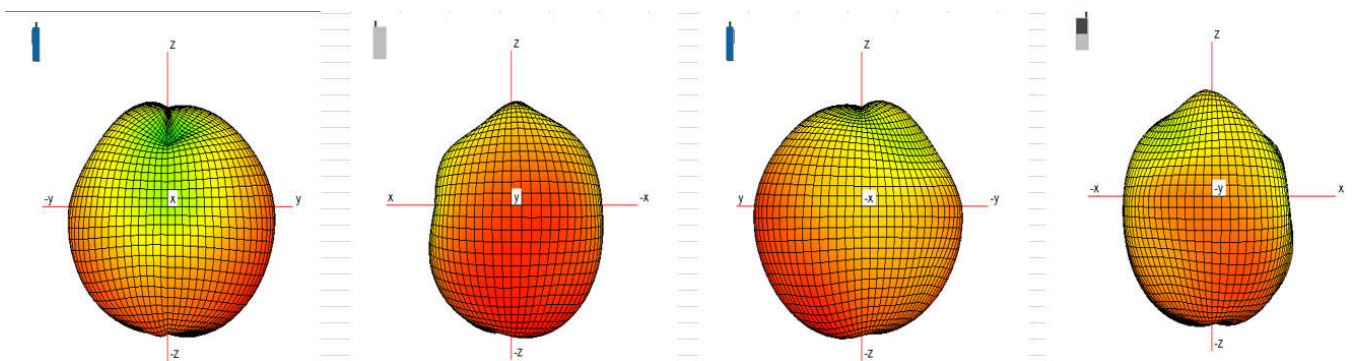
Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document

(Right view – Rear view – Left view – Front view)

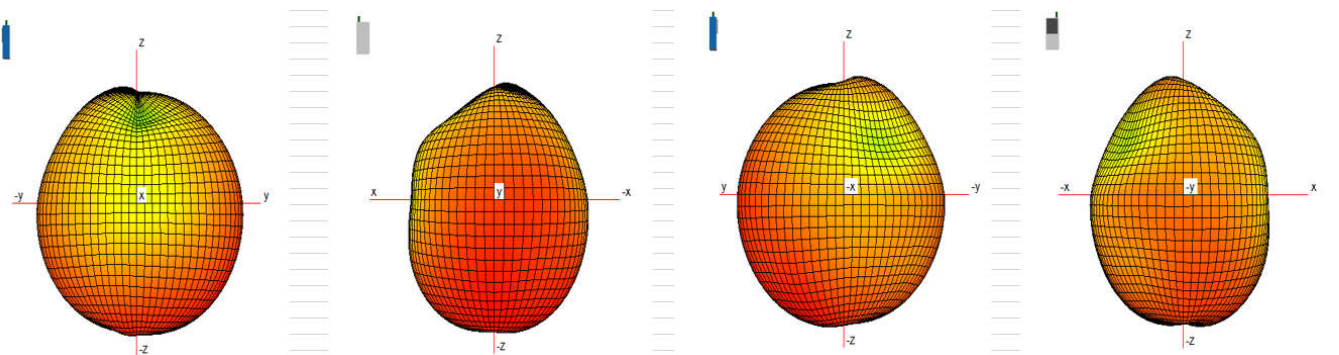
WCDMA B1/LTE B1



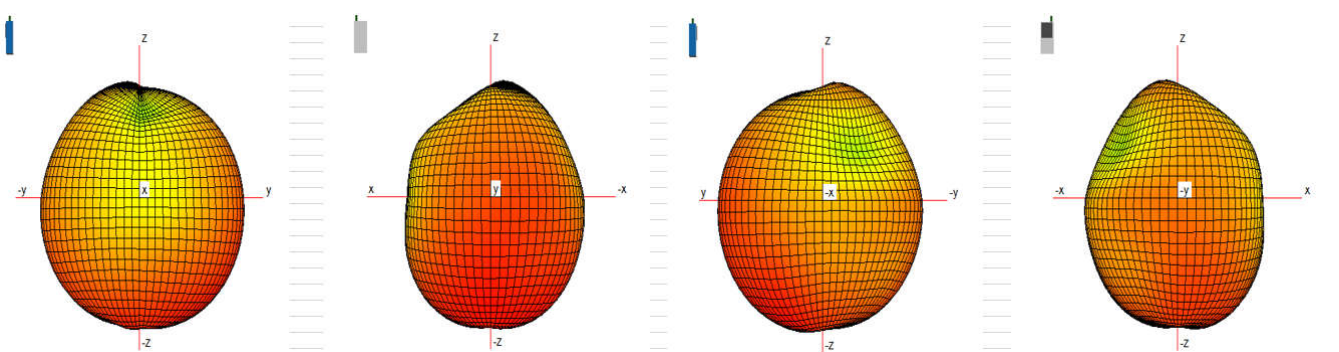
GSM1900/WCDMA B2/LTE B2/NR N2



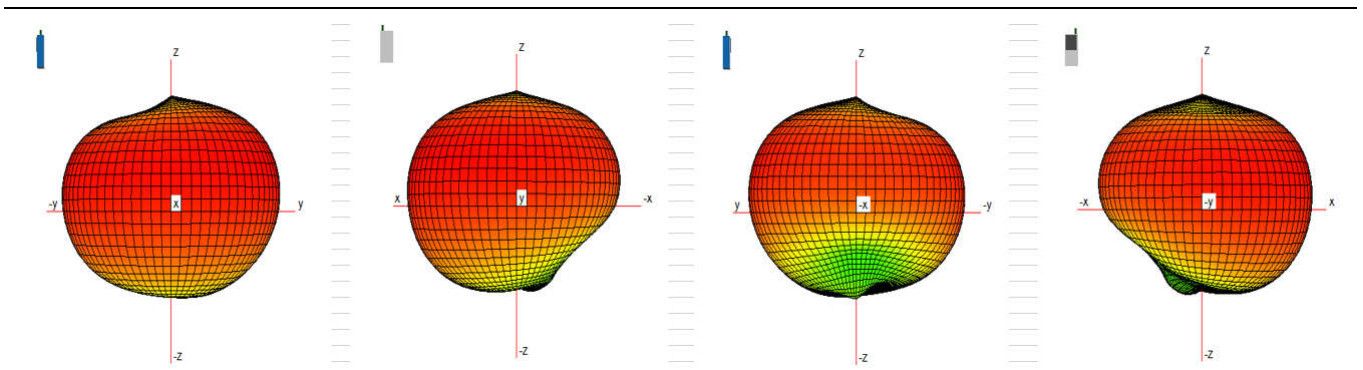
GSM1800/LTE B3



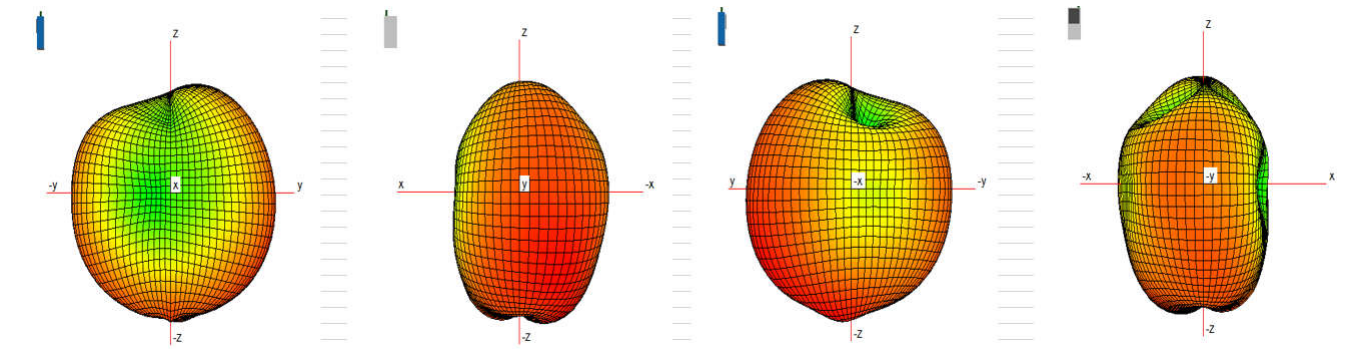
LTE B4/LTE B66/NR N66



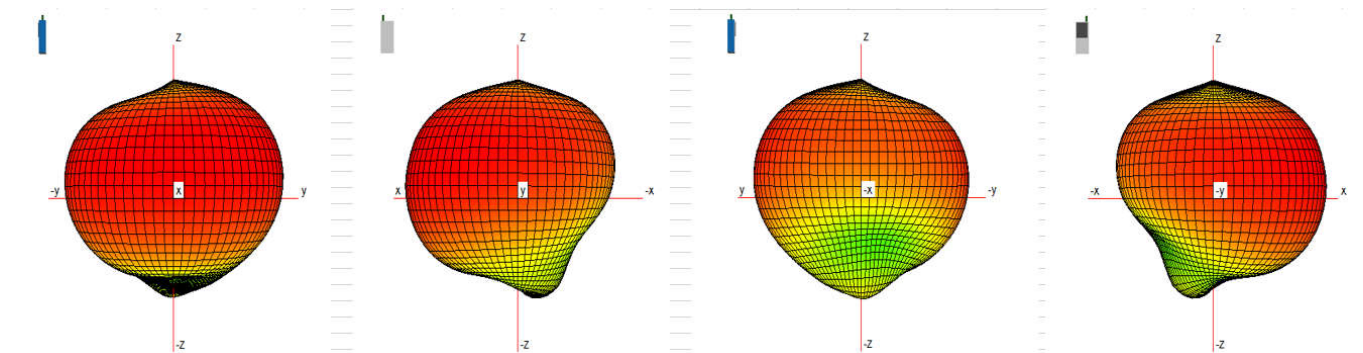
GSM850/WCDMA B5/LTE B5/ NR N5



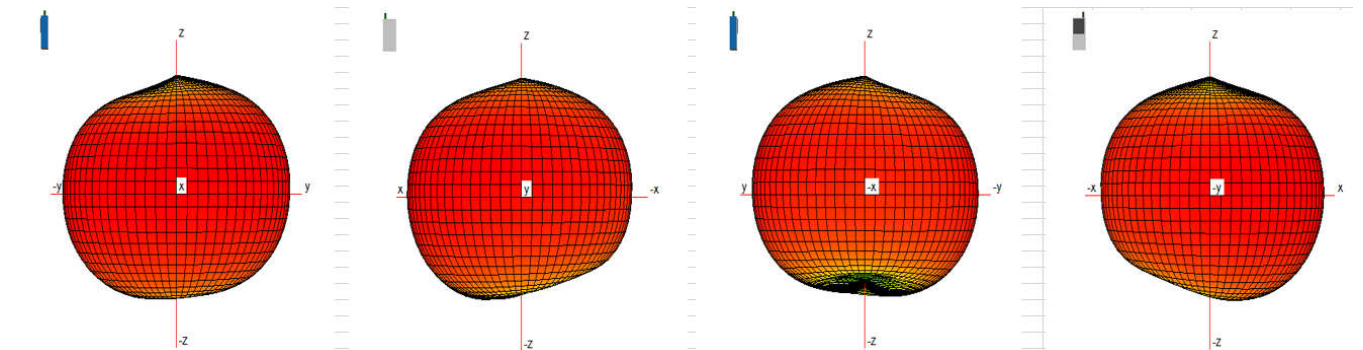
LTE B7



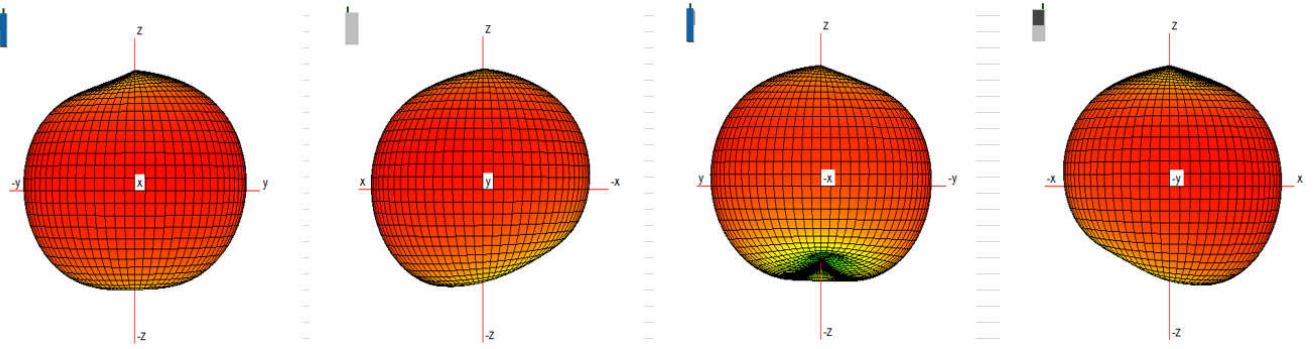
GSM900/WCDMA B8



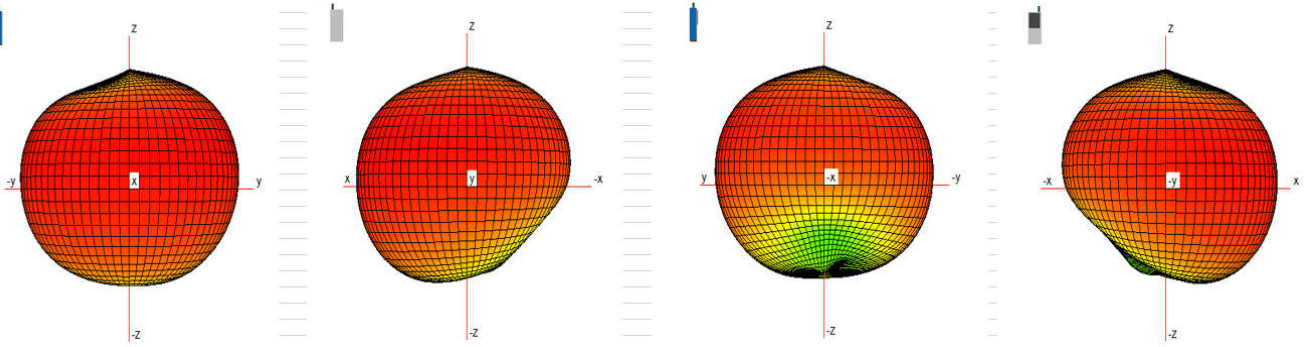
LTE B12



LTE B13



LTE B20



ANT1

Antenna model name: Insert molding metal with LDS

Antenna type: IFA

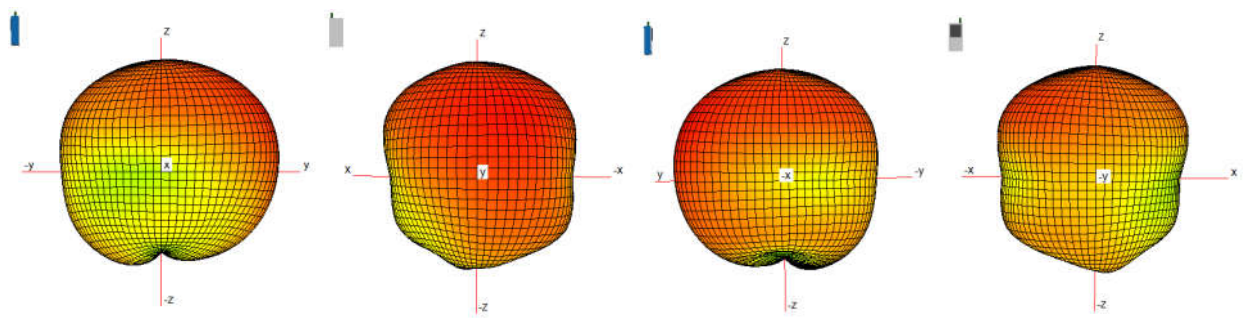
LTE BAND	Peak Gain(dBi)
LTE B2	-7
LTE B4	-7
LTE B5	-7.2
LTE B12	-7.5
LTE B13	-7.5
LTE B66	-7

NR FR1 BAND	Peak Gain(dBi)
N2	-7
N5	-7.2
N66	-7

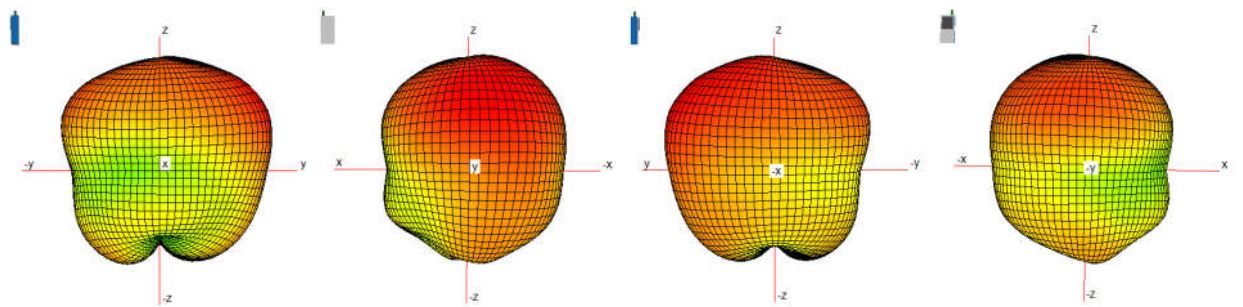
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(Right view – Rear view – Left view – Front view)

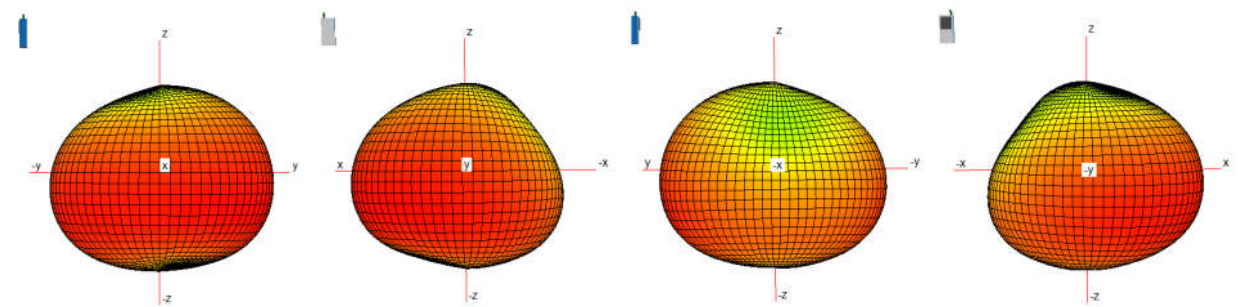
LTE B2/NR N2



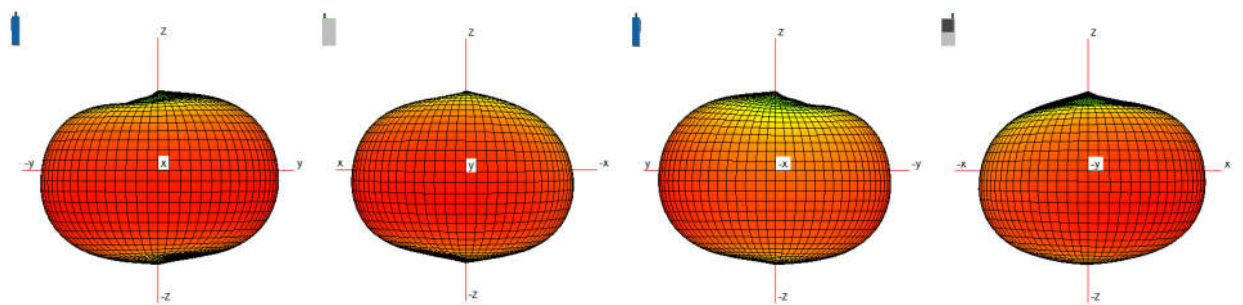
LTE B4/LTE B66/ NR N66



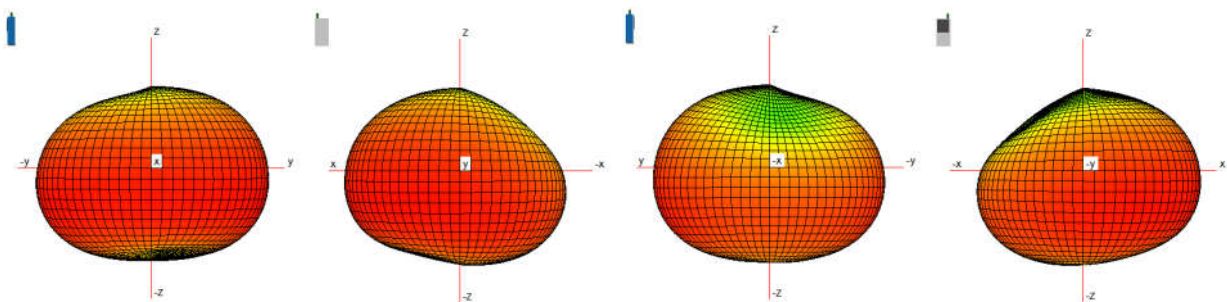
LTE B5/NR N5



LTE B12



LTE B13



ANT2

Antenna model name: Insert molding metal

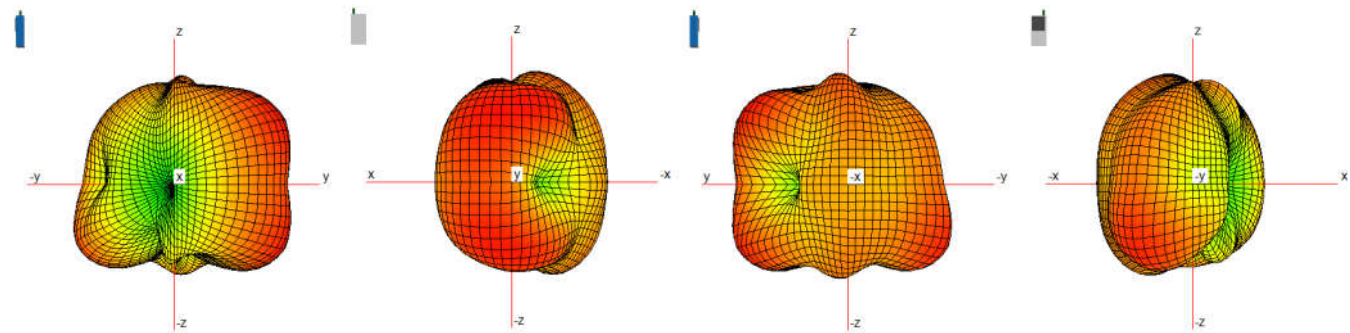
Antenna type: Loop

BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-5	5470~5725MHz	-7.5
5150~5250MHz	-6.5	5725~5850MHz	-8.5
5250~5350MHz	-6.5	5925~7125MHz	-8.5

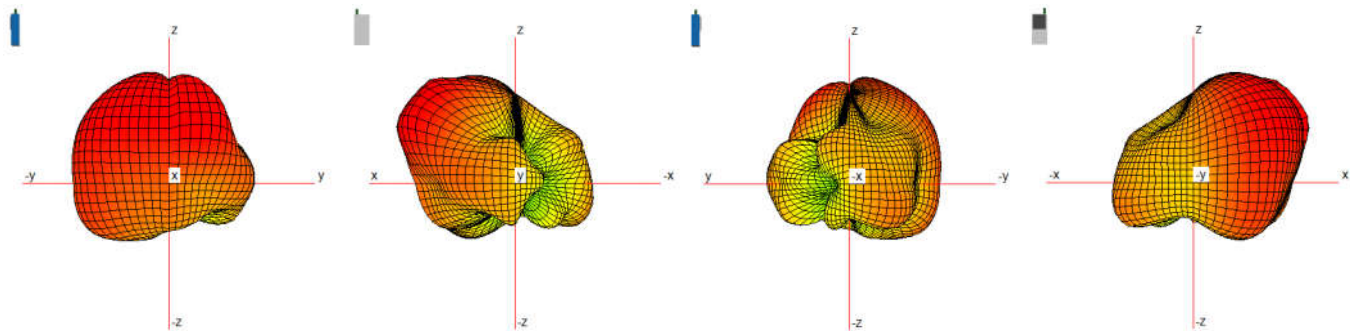
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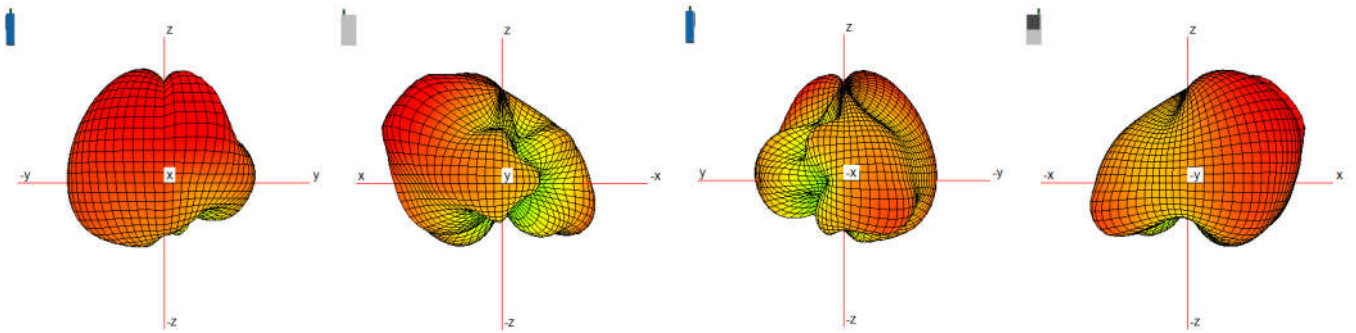
WIFI 2.4G (2450 MHz)



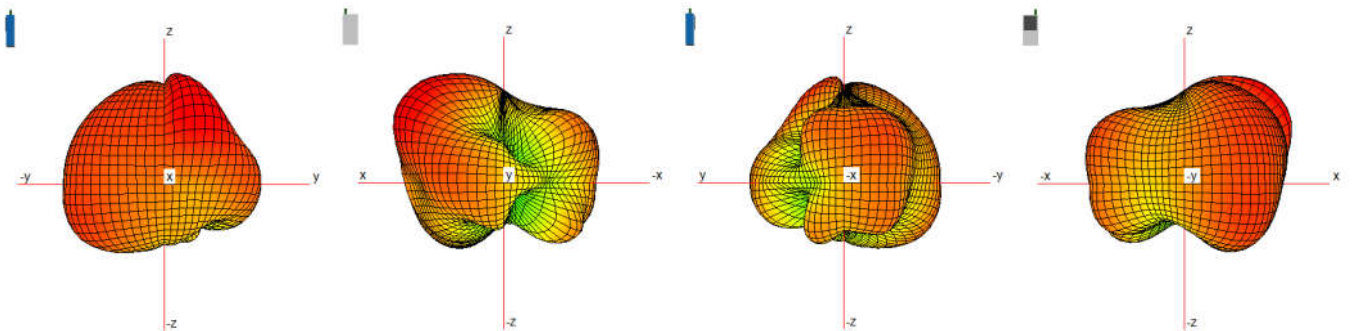
WIFI 5G (5200 MHz)



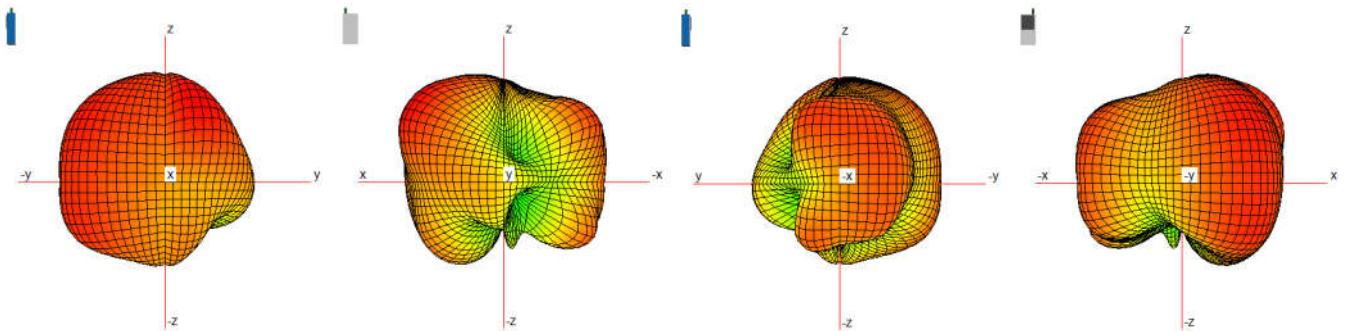
WIFI 5G (5300 MHz)



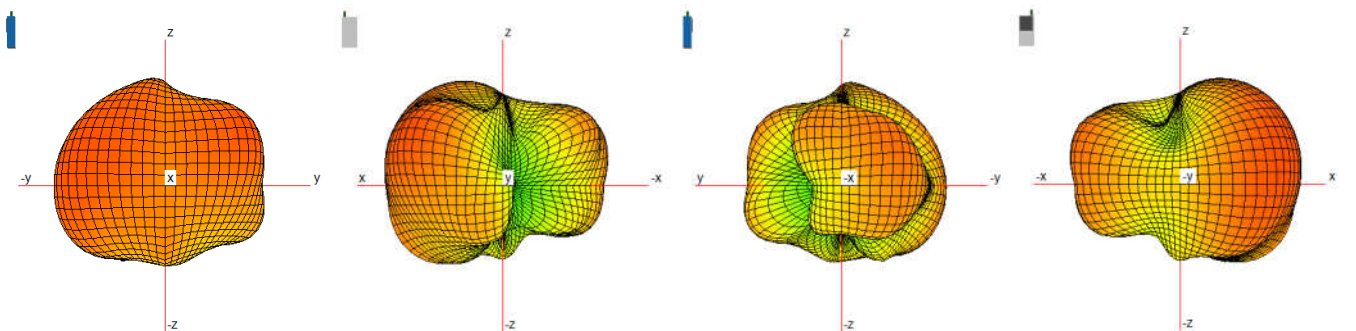
WIFI 5G (5500 MHz)



WIFI 5G (5800 MHz)



WIFI 5G (6500 MHz)



ANT3

Antenna model name: Insert molding metal with LDS

Antenna type: ILA

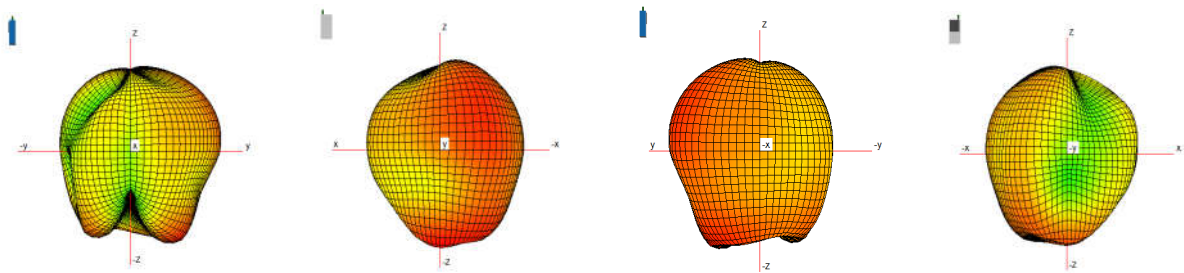
LTE BAND	Peak Gain(dBi)
LTE B48	-6

NR FR1 BAND	Peak Gain(dBi)
N48	-6
N77	-6.3
N78	-6.8

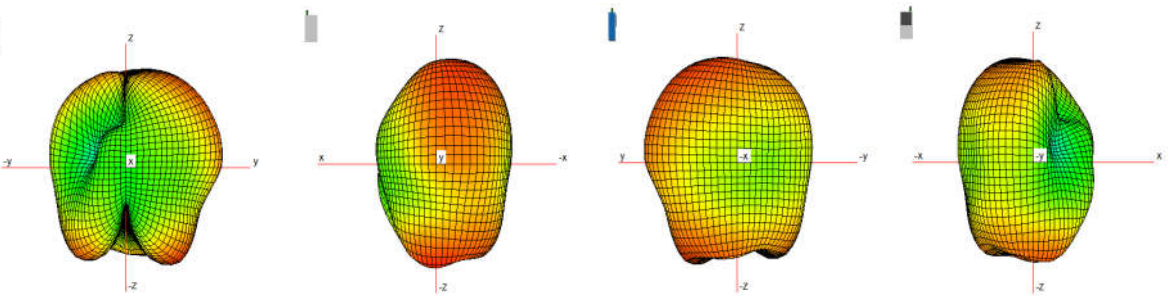
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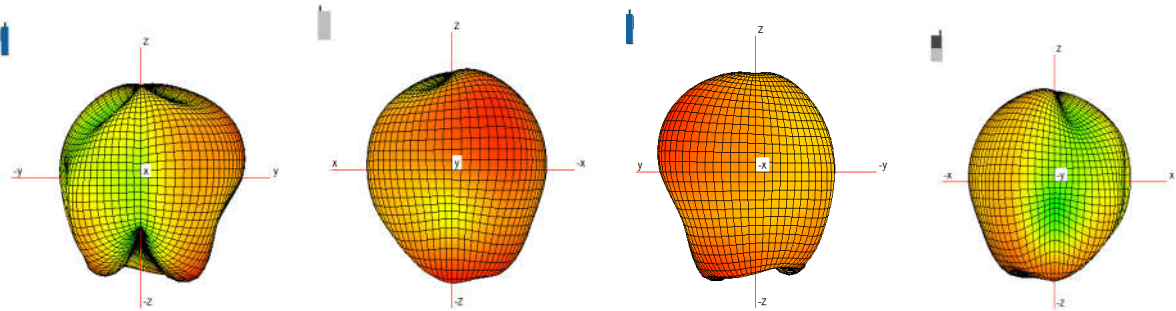
LTE B48/ NR N48



N77



N78



ANT4

Antenna model name: LDS

Antenna type: PIFA

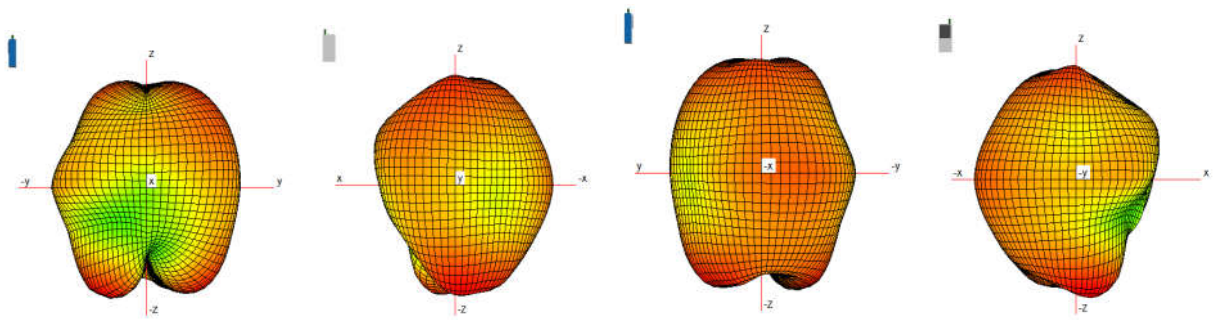
LTE BAND	Peak Gain(dBi)
LTE B48	-5.8

NR FR1 BAND	Peak Gain(dBi)
N48	-5.8
N77	-5.7
N78	-5.2

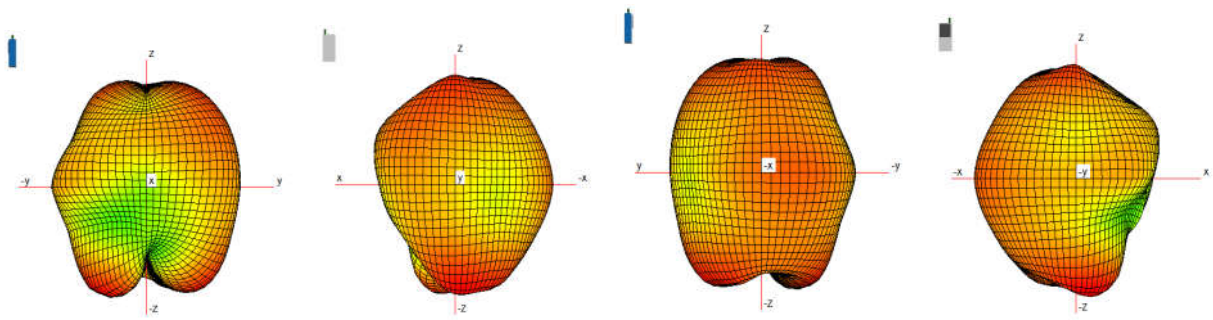
Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document

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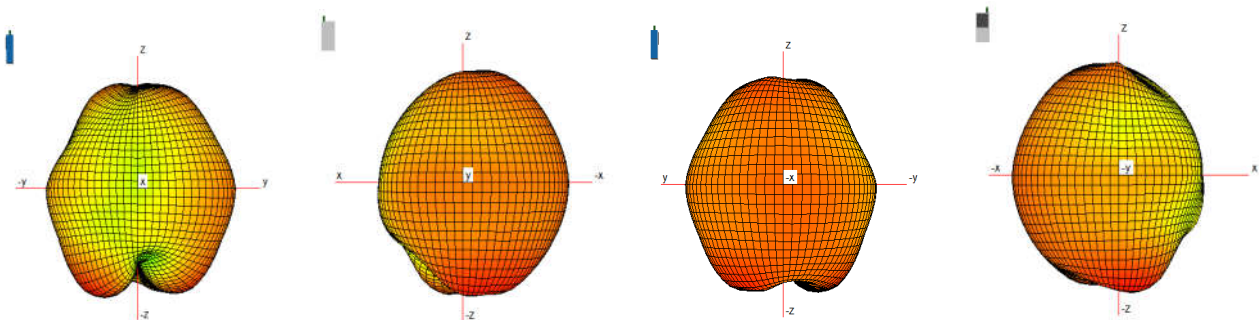
LTE B48/ NR N48



N77



N78



ANT5

Antenna model name: Insert molding metal with LDS

Antenna type: ILA

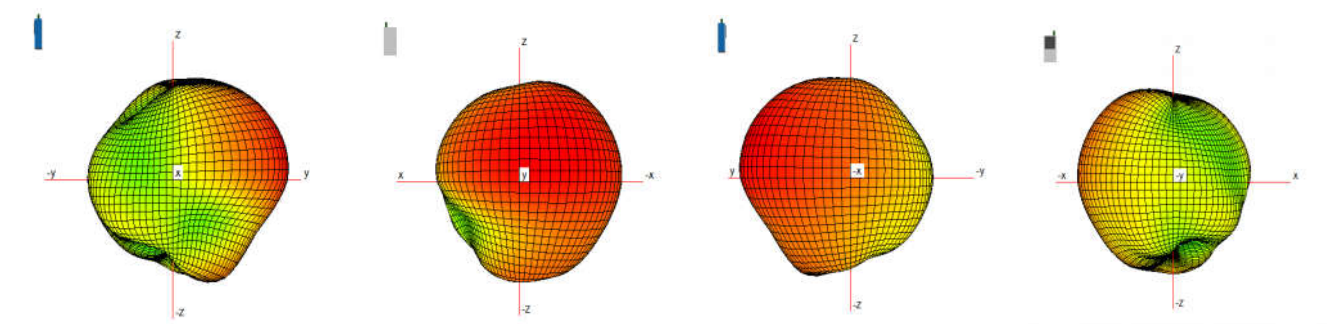
LTE BAND	Peak Gain(dBi)
LTE B48	-10

NR FR1 BAND	Peak Gain(dBi)
N48	-10
N77	-10
N78	-10

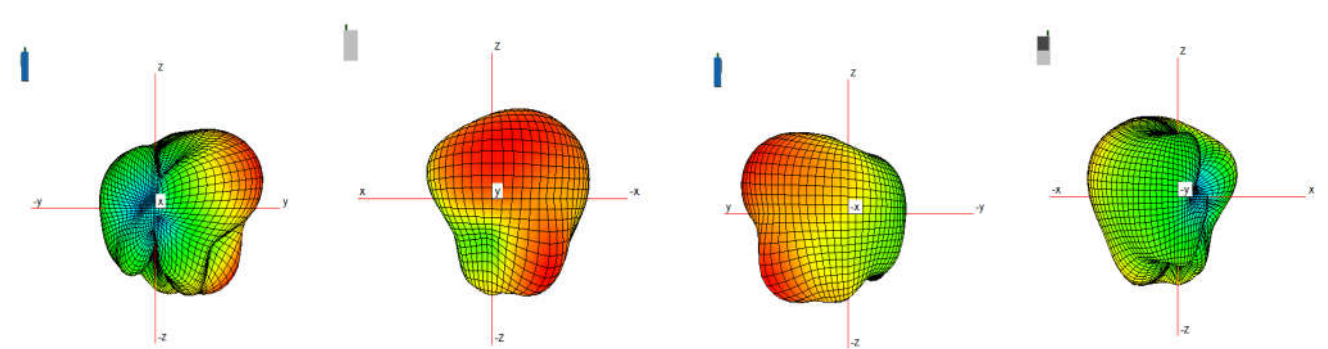
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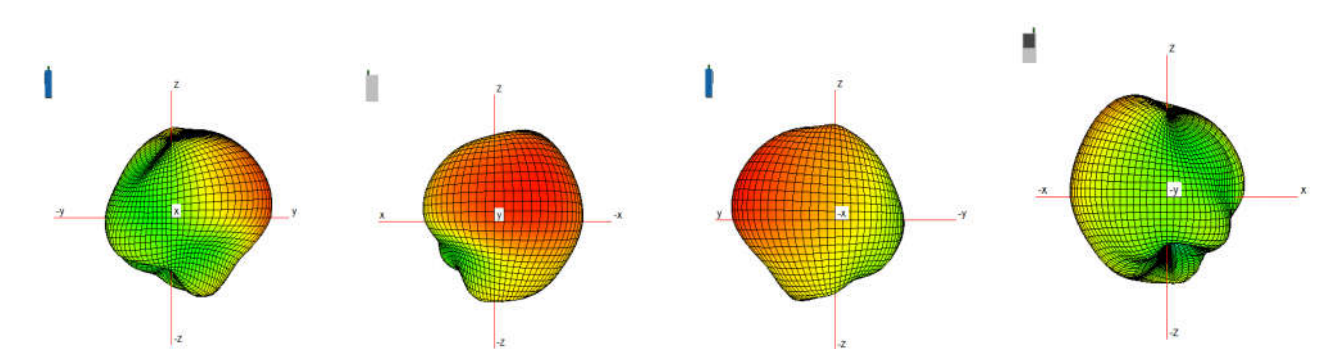
LTE B48/NR N48



NR N77



NR N78



ANT8

Antenna model name: LDS

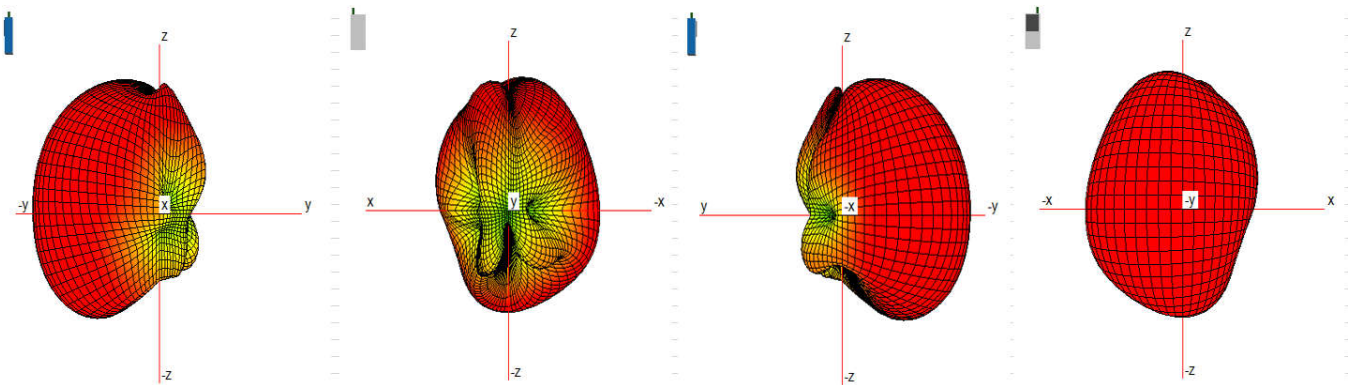
Antenna type: PIFA

LTE BAND	Peak Gain(dBi)
LTE B48	-7.4

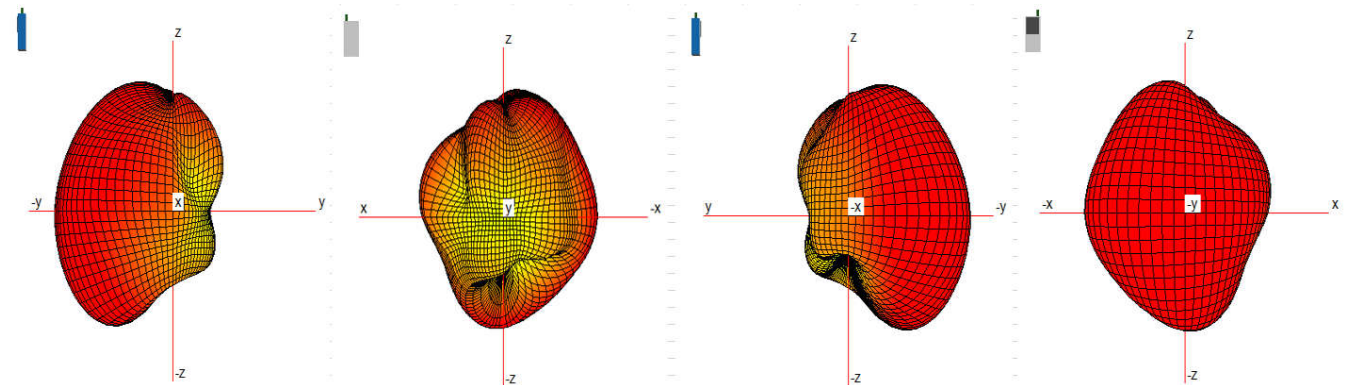
NR FR1 BAND	Peak Gain(dBi)
N48	-7.4
N77	-7.2
N78	-7.2

Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document

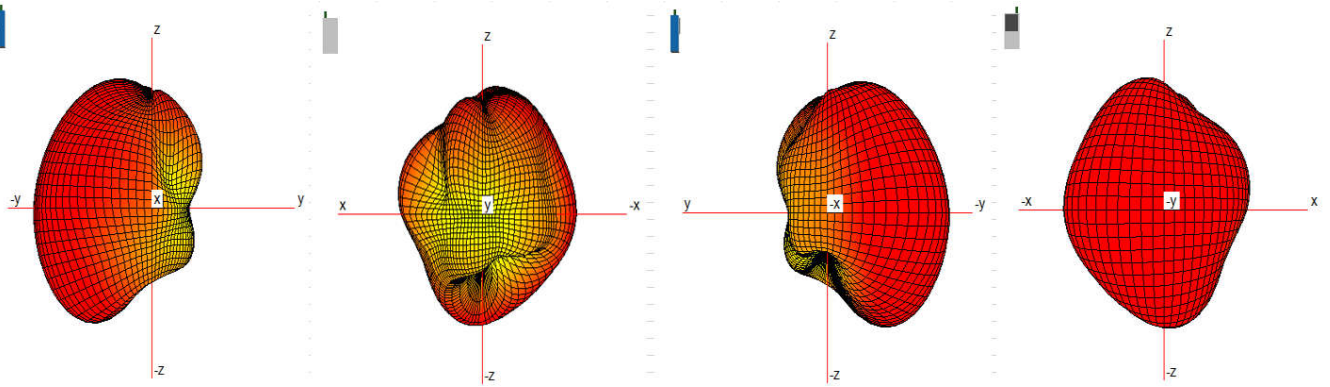
LTE B48/NR N48



NR N77



NR N78



ANT9

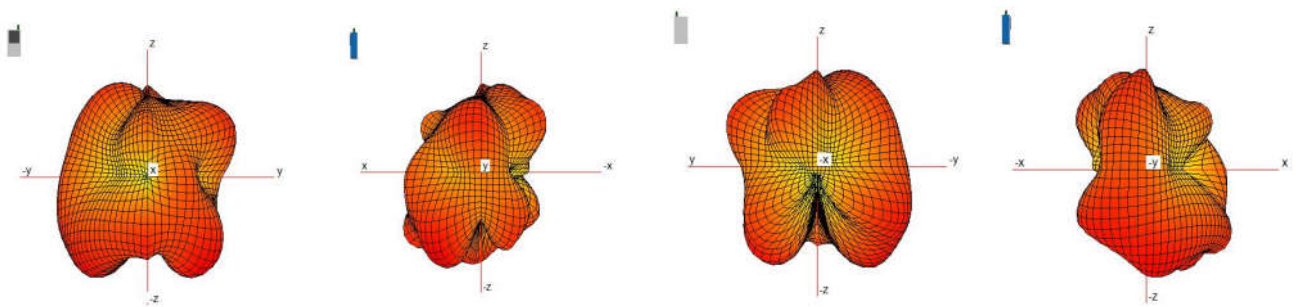
Antenna model name: Insert molding metal

Antenna type: ILA

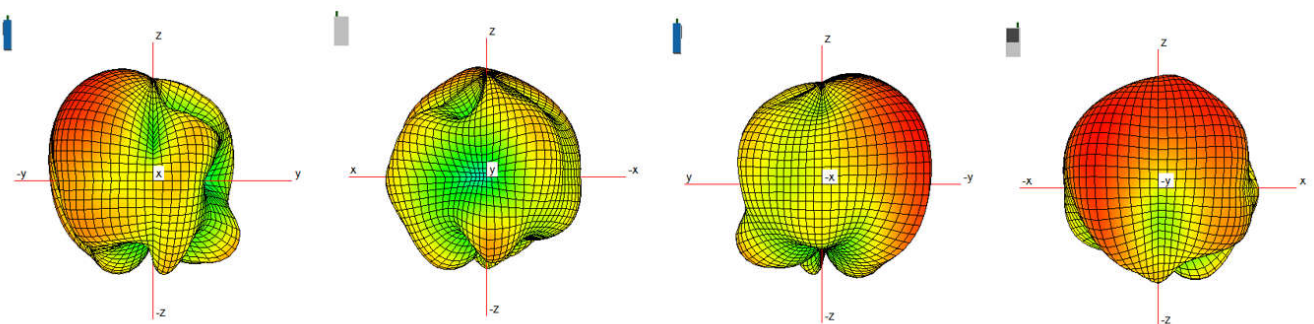
WLAN Peak Gain (dBi)			
2400~2483.5MHz	-7	5470~5725MHz	-6
5150~5250MHz	-6	5725~5850MHz	-7.3
5250~5350MHz	-6	5925~7125MHz	-8.5

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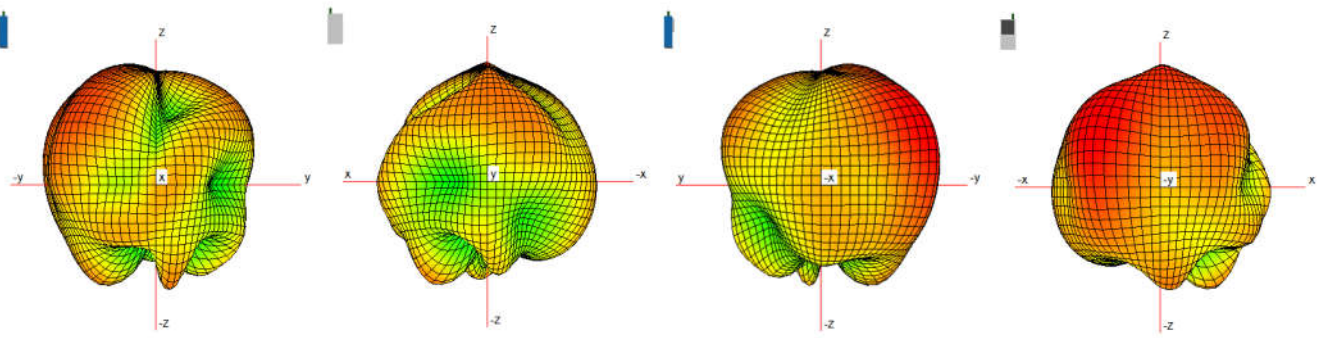
WIFI 2.4G (2450 MHz)



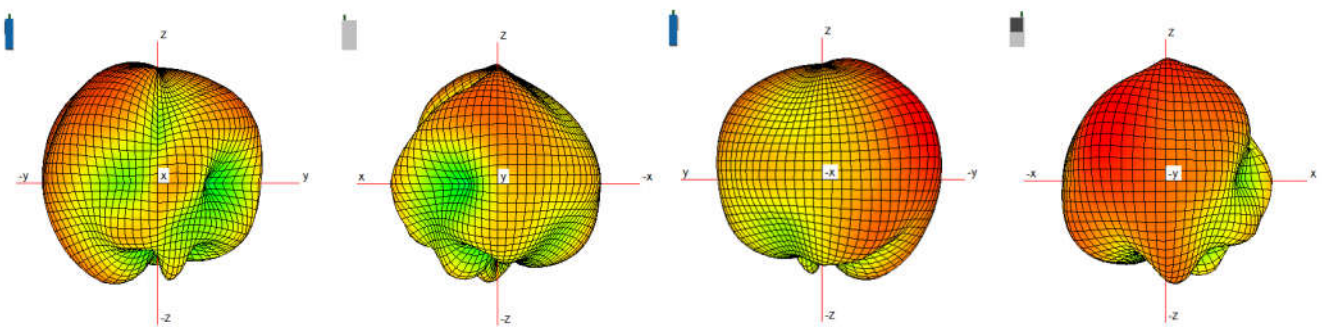
WIFI 5G (5200 MHz)



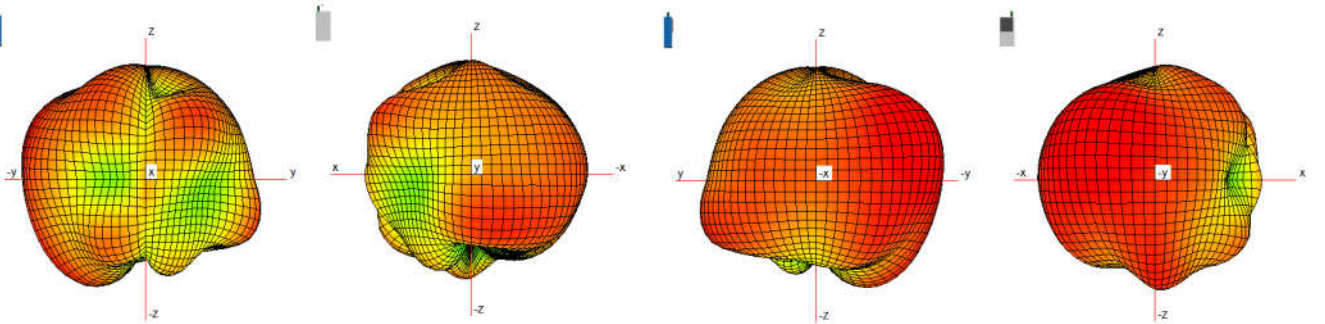
WIFI 5G (5300 MHz)



WIFI 5G (5500 MHz)



WIFI 5G (5800 MHz)



WIFI 6E (6200 MHz)

