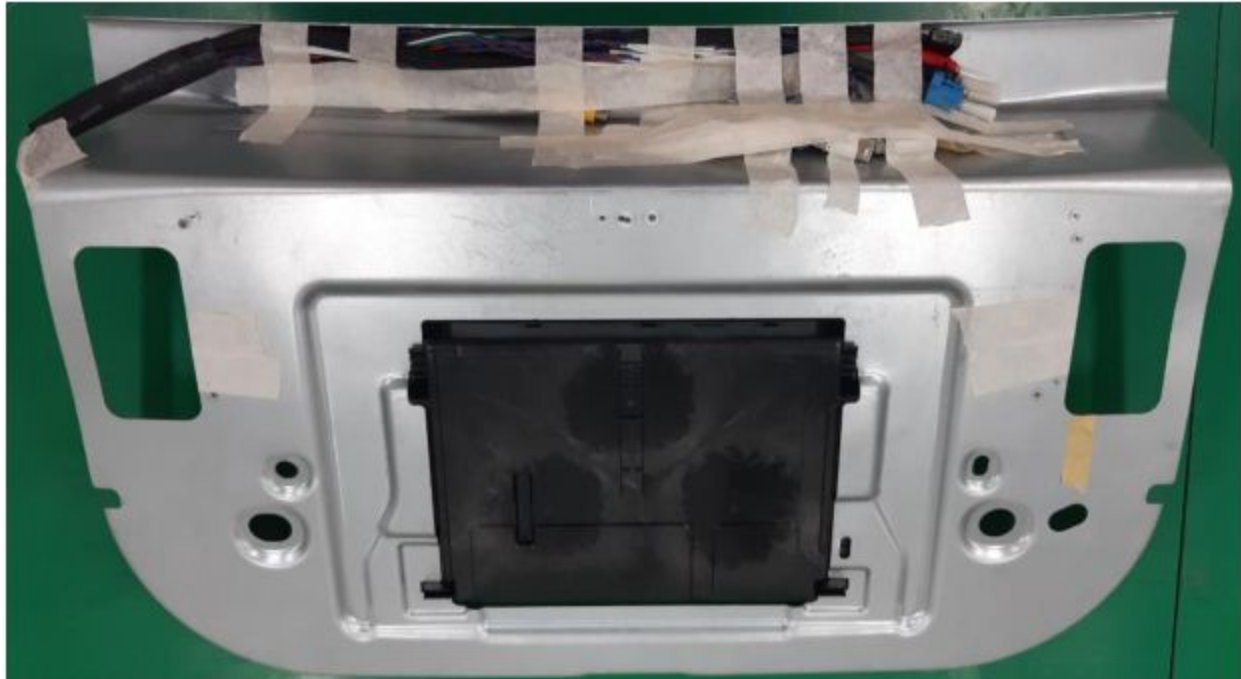


ANTENNA SPECIFICATION

TCAM2 top cover



I . Mechanical Specifications

Antenna Dimension	250.94(D) x 163(W) x 30(H) mm
Weight	220g

1. LTE1

II . Electrical Specifications

Frequency Range	617MHz ~960MHz	1710MHz ~2170MHz	2300MHz ~5000MHz
Avg. Gain	Min -4.5dB	Min -3.0dB	Min -3.5dB
V.S.W.R	≤ 3.0	≤ 3.0	≤ 3.0
Radiation	Omni		
Polarization	Linear		
Impedance	50Ω		

ANTENNA SPECIFICATION

2. LTE2

II . Electrical Specifications			
Frequency Range	617MHz ~960MHz	1710MHz ~2170MHz	2300MHz ~5000MHz
Avg. Gain	Min -4.5dB	Min -4.5dB	Min -4.0dB
V.S.W.R	≤ 2.5	≤ 5.0	≤ 3.0
Radiation	Omni		
Polarization	Linear		
Impedance	50Ω		

3. LTE3

II . Electrical Specifications		
Frequency Range	1710MHz~2170MHz	2300MHz~5000MHz
Avg. Gain	Min -3.0dBi	Min -3.5dBi
V.S.W.R	≤ 4.0	≤ 3.0
Radiation	Omni	
Polarization	Linear	
Impedance	50Ω	

ANTENNA SPECIFICATION

4. LTE4

II . Electrical Specifications		
Frequency Range	1710MHz~2170MHz	2300MHz~5000MHz
Avg. Gain	Min -3.5dBi	Min -3.5dBi
V.S.W.R	≤ 3.5	≤ 3.5
Radiation	Omni	
Polarization	Linear	
Impedance	50Ω	

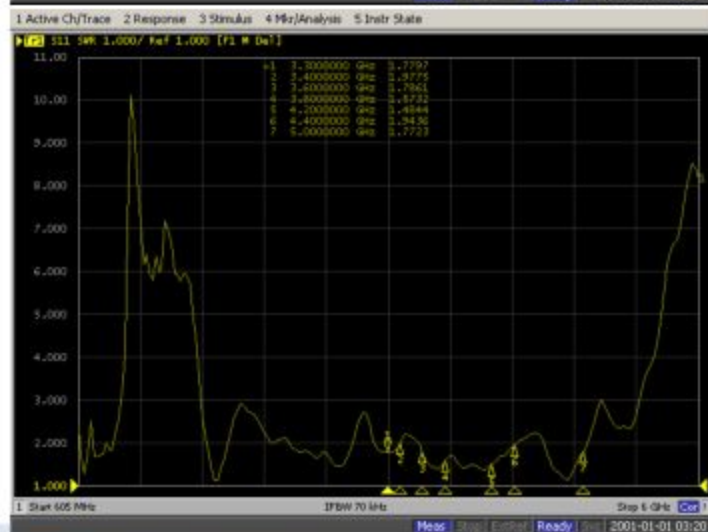
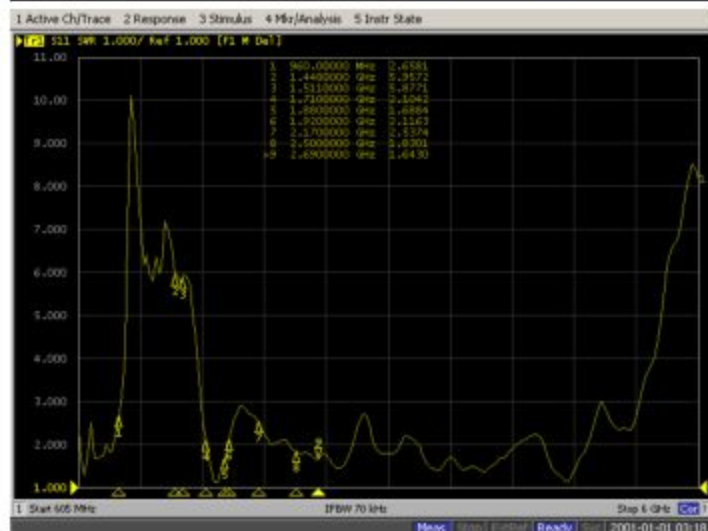
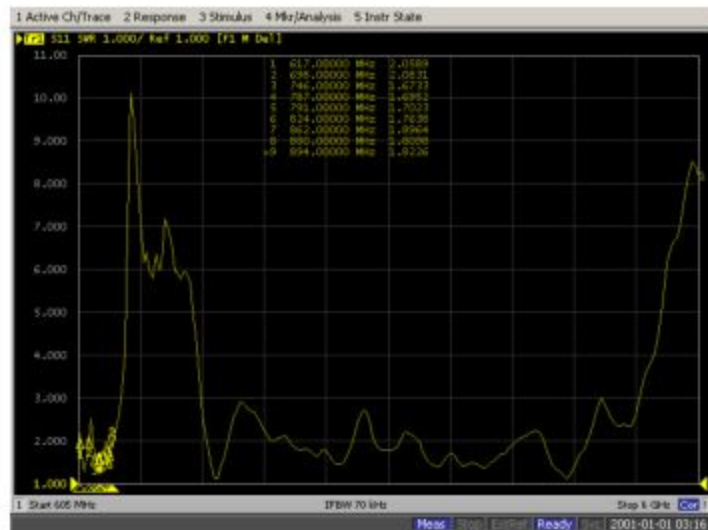
5. BLE & V2X

II . Electrical Specifications		
Frequency Range	2400MHz~2485MHz	5850MHz~5925MHz
Avg. Gain	Min -2.5 dBi	Min -3.0dBi
V.S.W.R	≤ 2.0	≤ 2.0
Radiation	Omni	
Polarization	Linear	
Impedance	50Ω	

ANTENNA SPECIFICATION

● V.S.W.R

1. LTE1



2. LTE2





ANTENNA SPECIFICATION

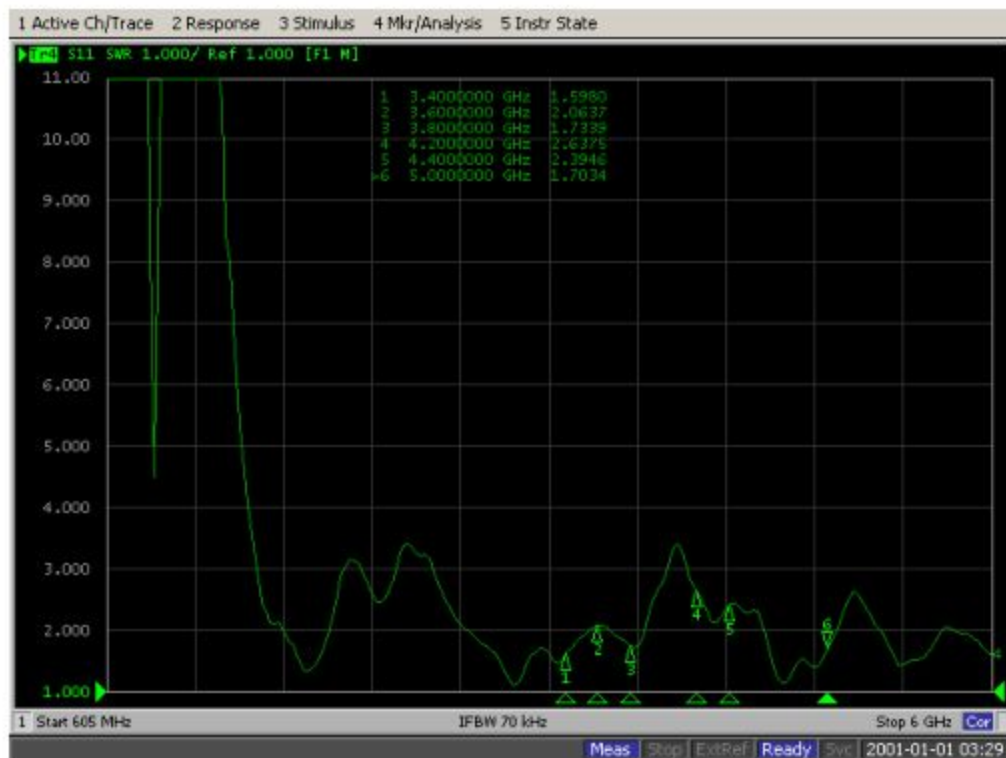
3. LTE3





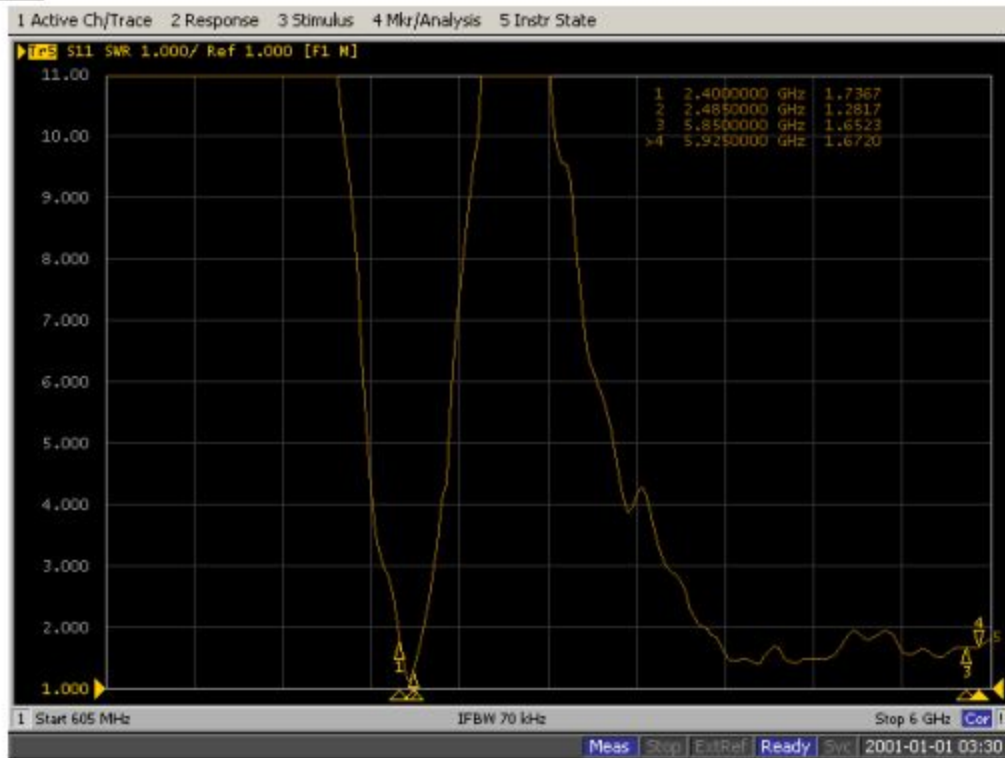
ANTENNA SPECIFICATION

4. LTE4



ANTENNA SPECIFICATION

5. BLE & V2X

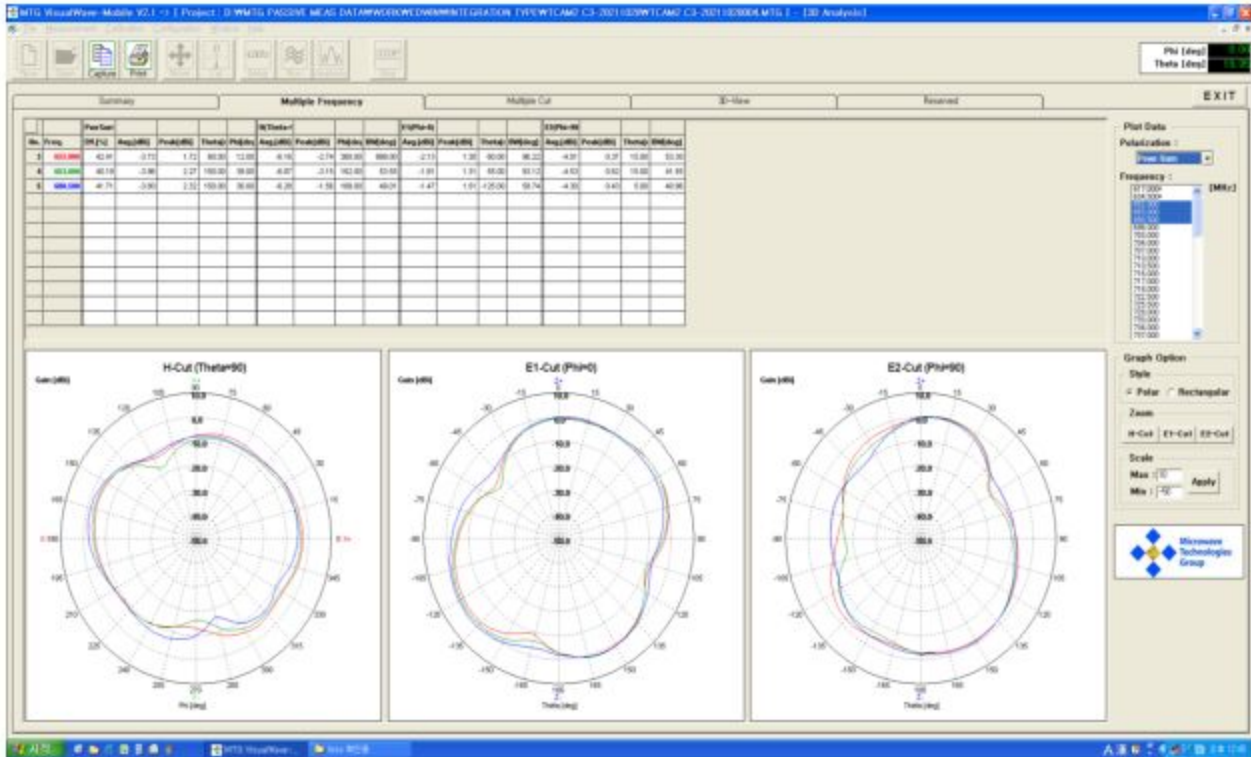


ANTENNA SPECIFICATION

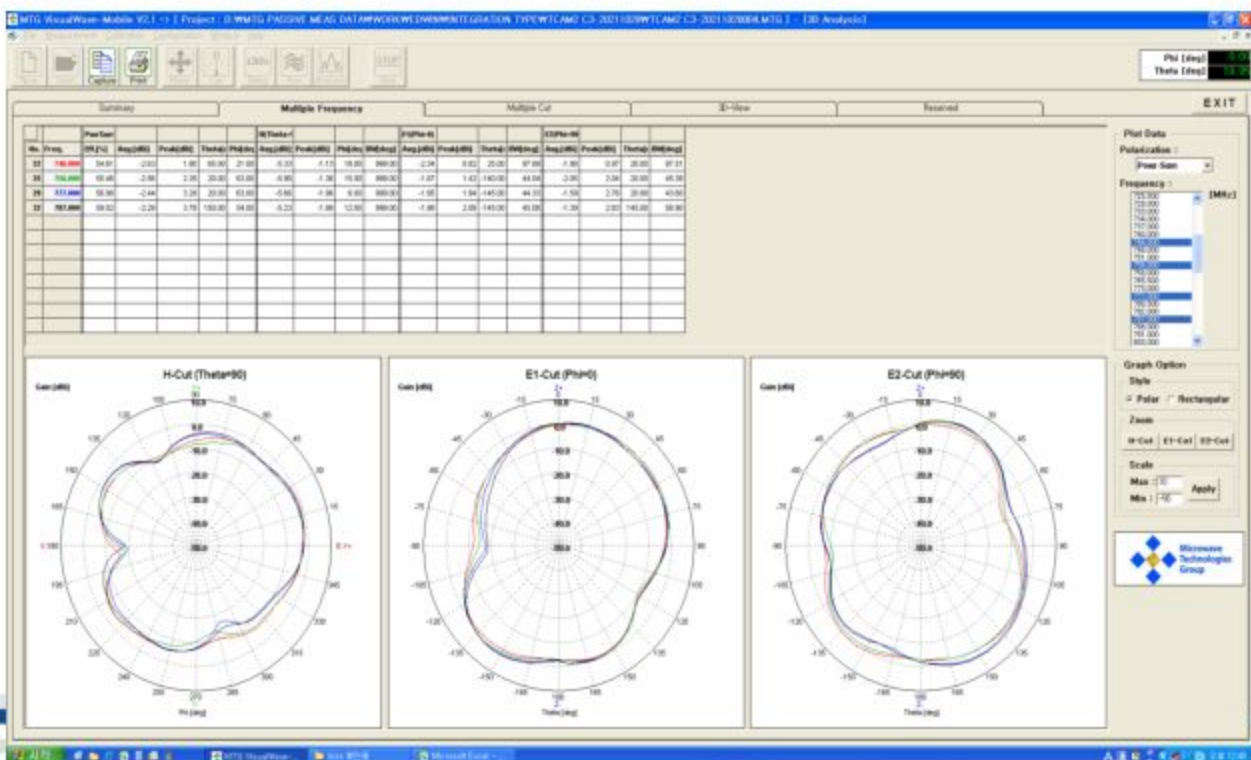
● BEAM PATTERN

1. LTE1

- B71



- B13



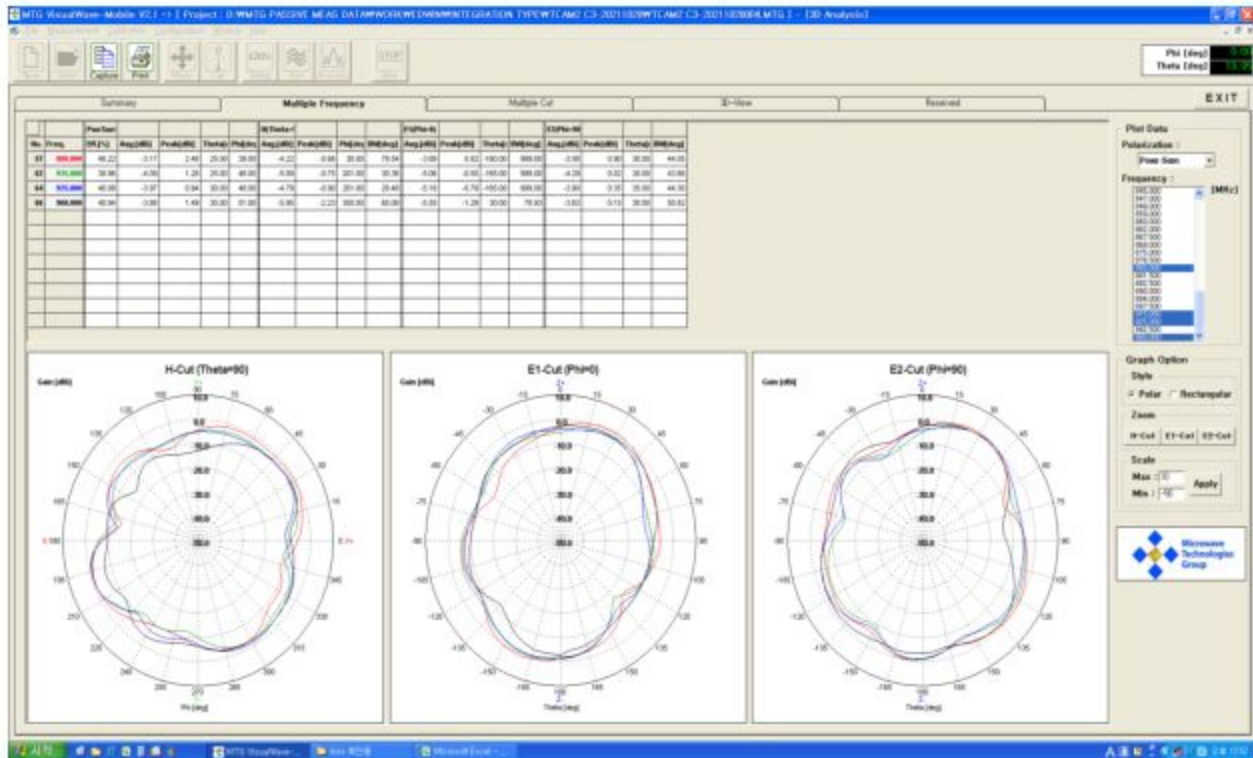
The screenshot displays the NITG VisualPace software interface. At the top, the title bar reads "NITG VisualPace Mobile V2.1 - Project: D:\NITG\PROJECTS\MEAS DATA\NITG\WAVE\PARAMETERS\DATA\TYPICAL\CM3-2021\H000A.MSL E - (30 Analysis)". The main window is divided into several sections:

- Summary Table:** A table with 10 columns: No., Freq., Port Num, S11(dB), S21(dB), S12(dB), S22(dB), S13(dB), S23(dB), S33(dB). It contains data for three frequencies: 81.000, 82.000, and 83.000 MHz.
- Multiple Frequency:** A section for selecting multiple frequencies.
- Multiple Cut:** A section for selecting multiple cuts.
- 3D-View:** A section for viewing the data in 3D.
- Save/Load:** Buttons for saving and loading data.
- Plot Data:** A section for plotting data, including a dropdown for "Polarization" and a list of frequencies.
- Graph Option:** A section for selecting the graph style (Polar or Rectangular), zoom, and scale.
- Three Polar Plots:**
 - H-Cut (Theta=90):** A polar plot showing the magnitude of the reflection coefficient (S11) versus frequency (80-85 MHz).
 - E1-Cut (Phi=0):** A polar plot showing the magnitude of the reflection coefficient (S11) versus frequency (80-85 MHz).
 - E2-Cut (Phi=90):** A polar plot showing the magnitude of the reflection coefficient (S11) versus frequency (80-85 MHz).

The bottom status bar shows the Windows taskbar with various icons and the system clock.

ANTENNA SPECIFICATION

- B8



- B3

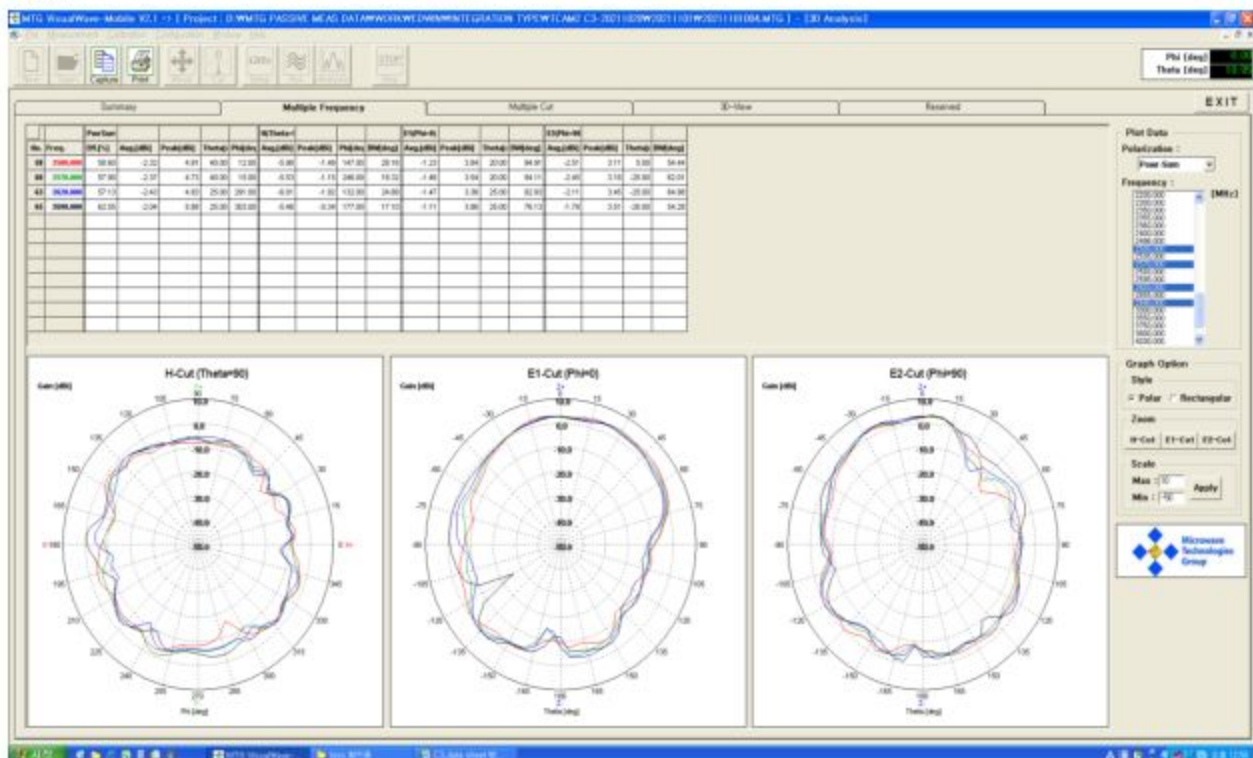


ANTENNA SPECIFICATION

- B1

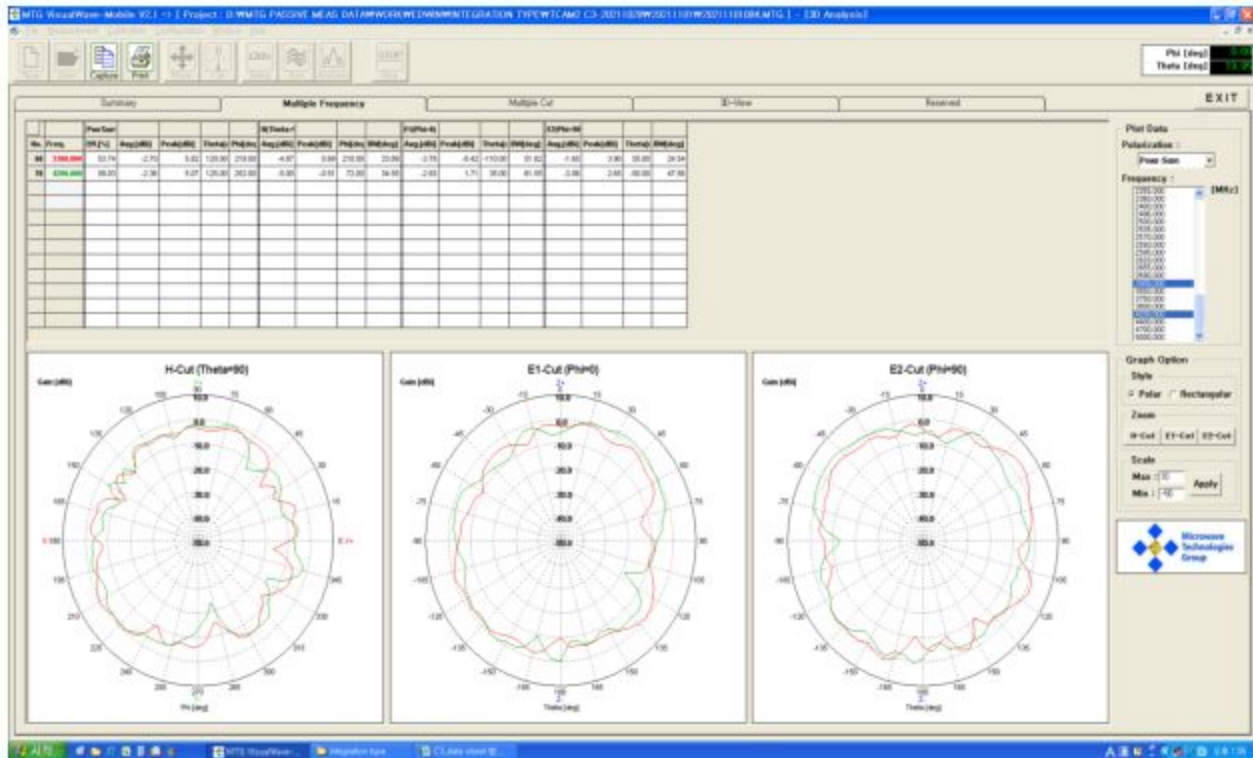


- B7

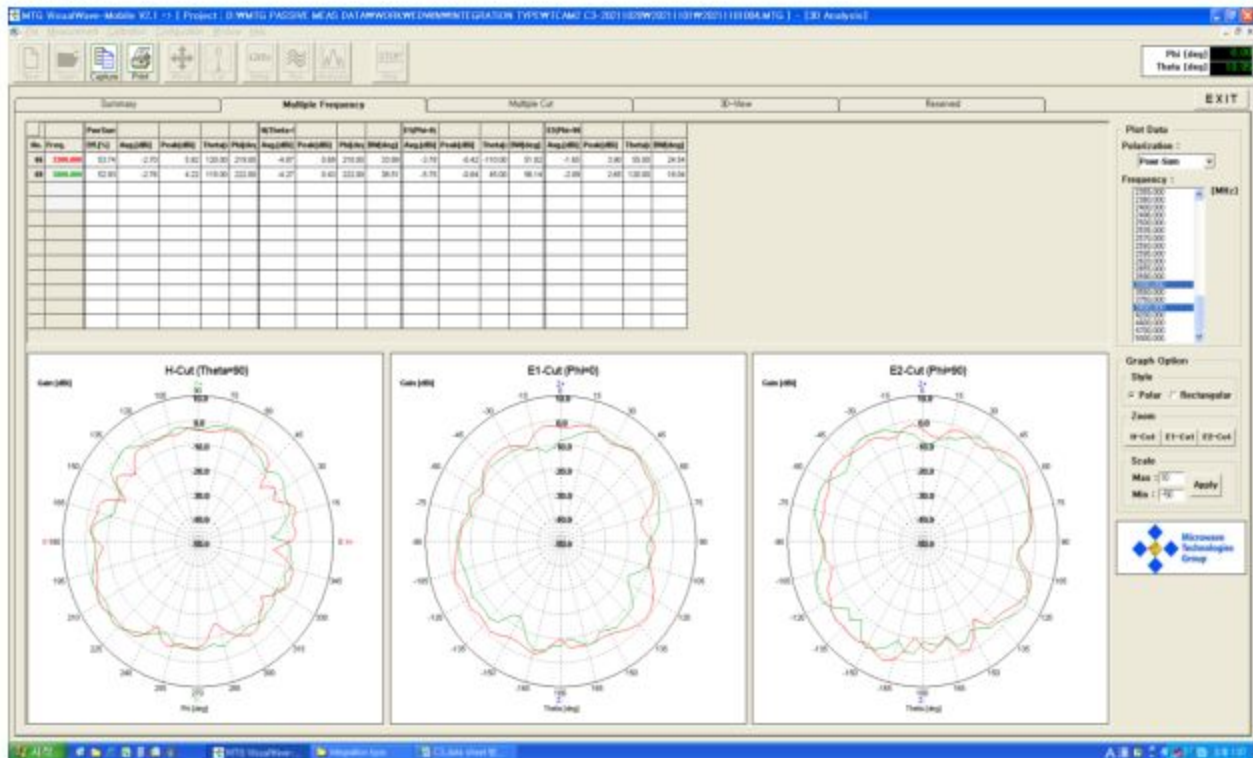


ANTENNA SPECIFICATION

- N77

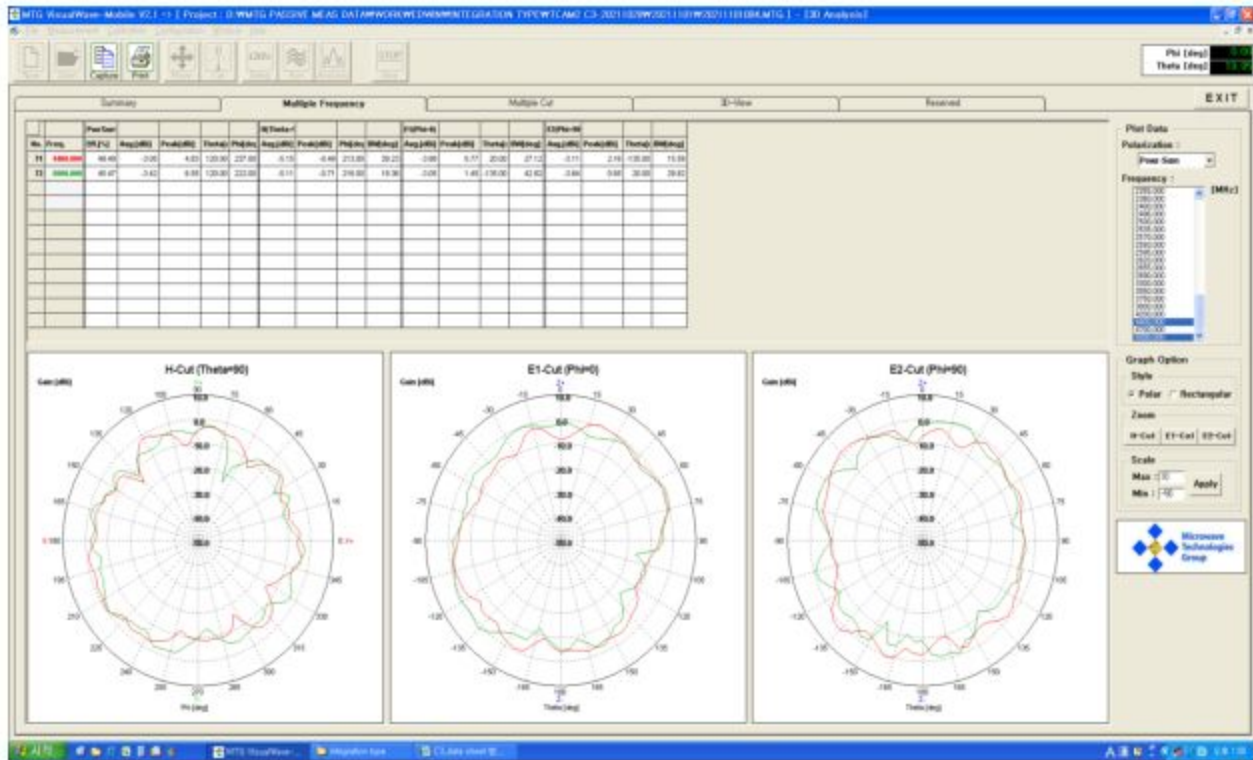


- N78



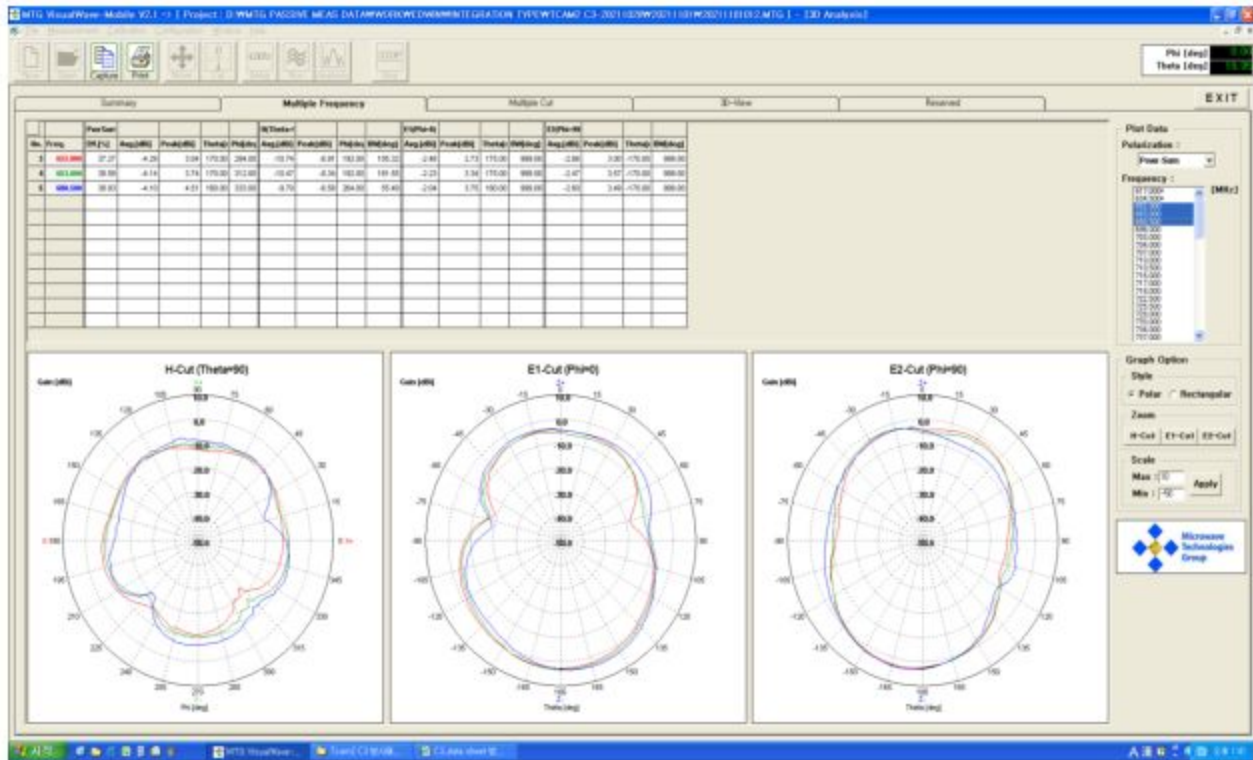
ANTENNA SPECIFICATION

- N79

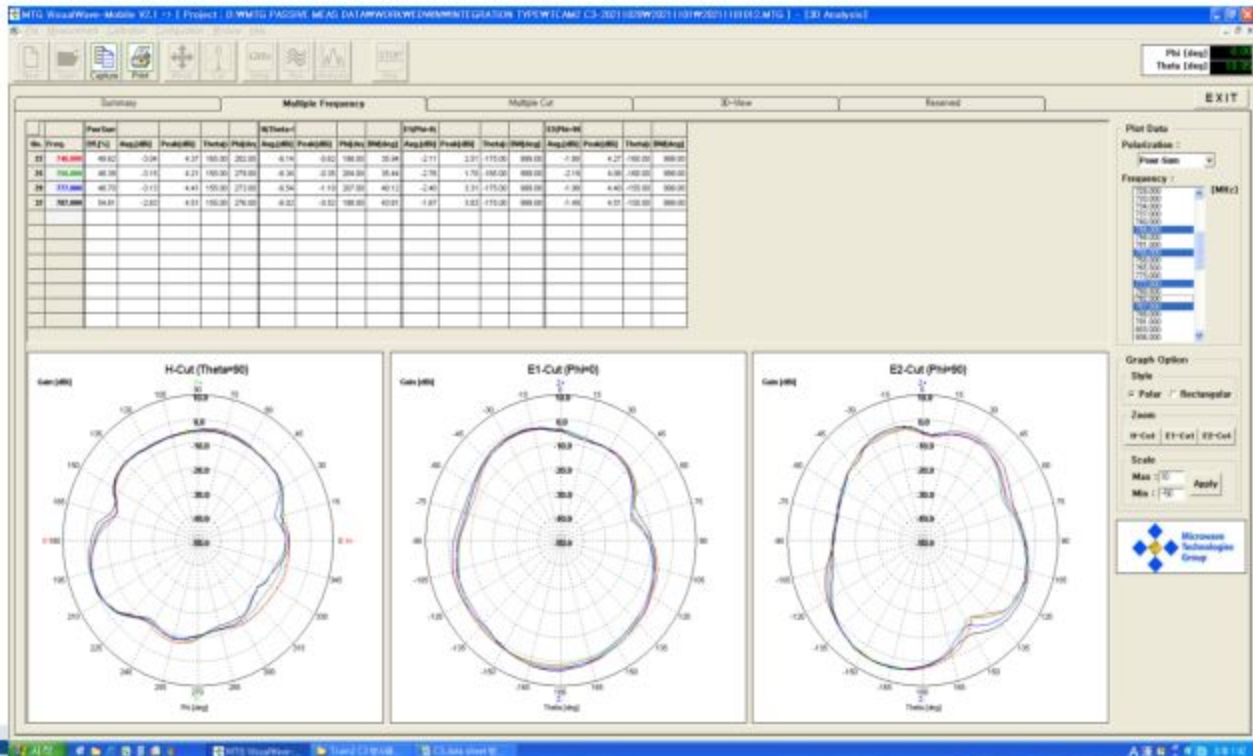


ANTENNA SPECIFICATION

2. LTE2
- B71

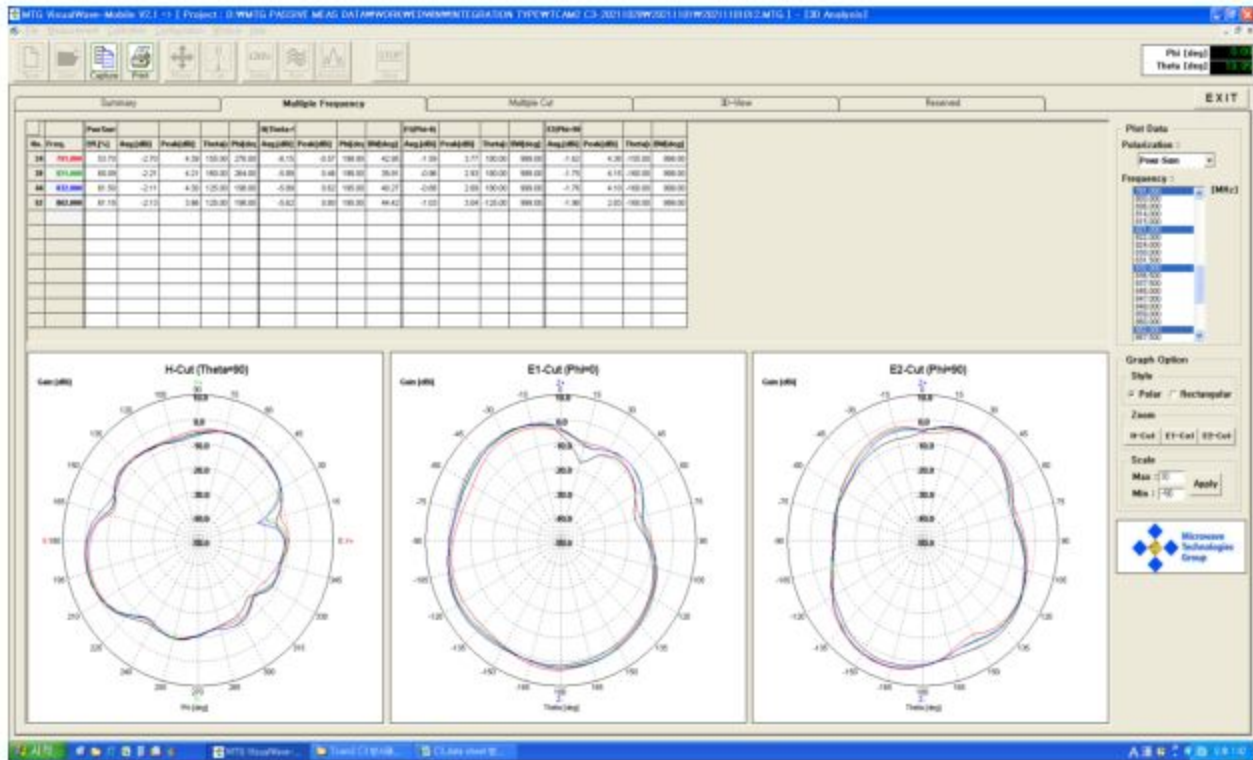


- B13

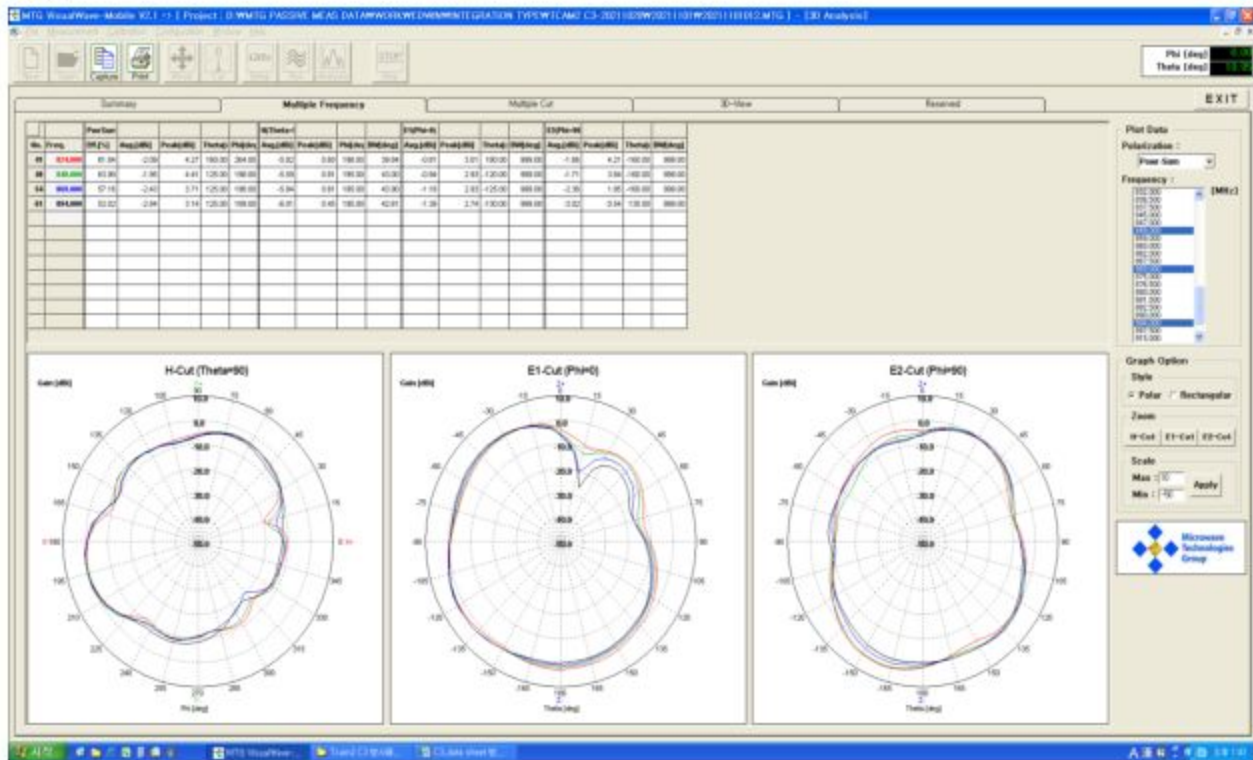


ANTENNA SPECIFICATION

- B20

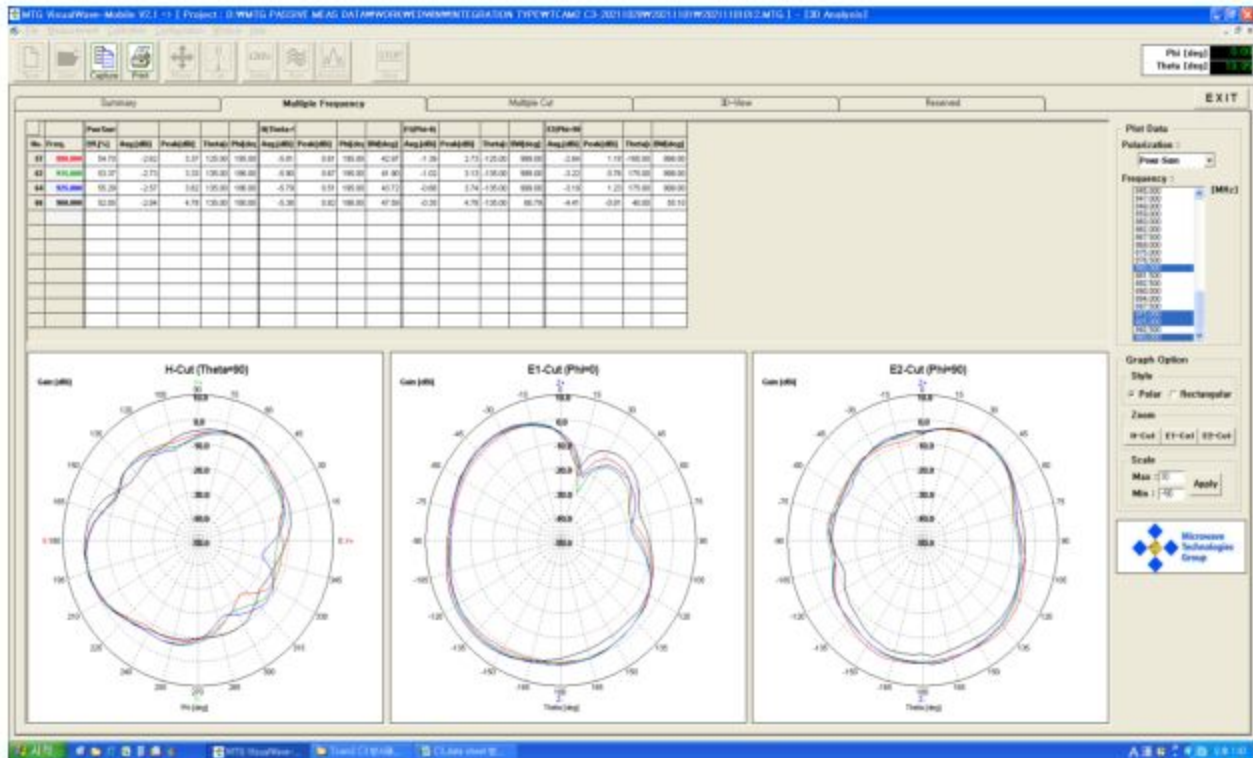


- B5

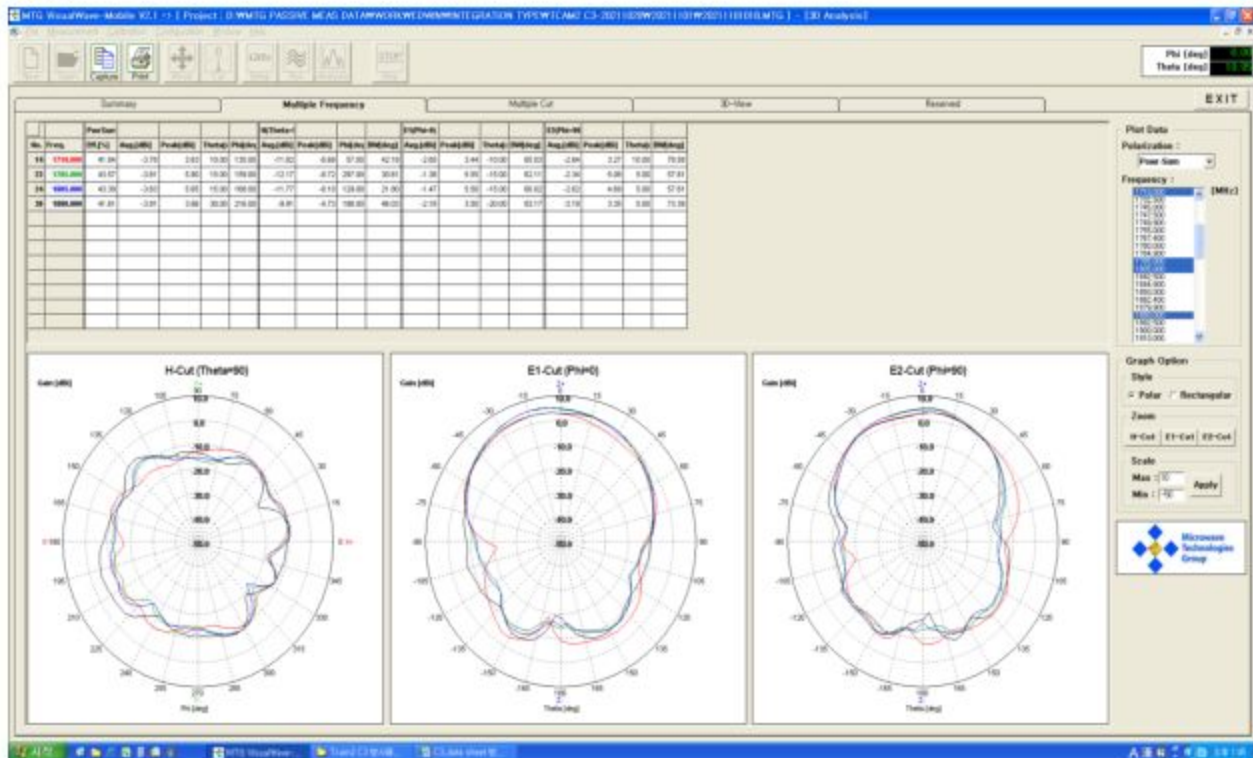


ANTENNA SPECIFICATION

- B8



- B3

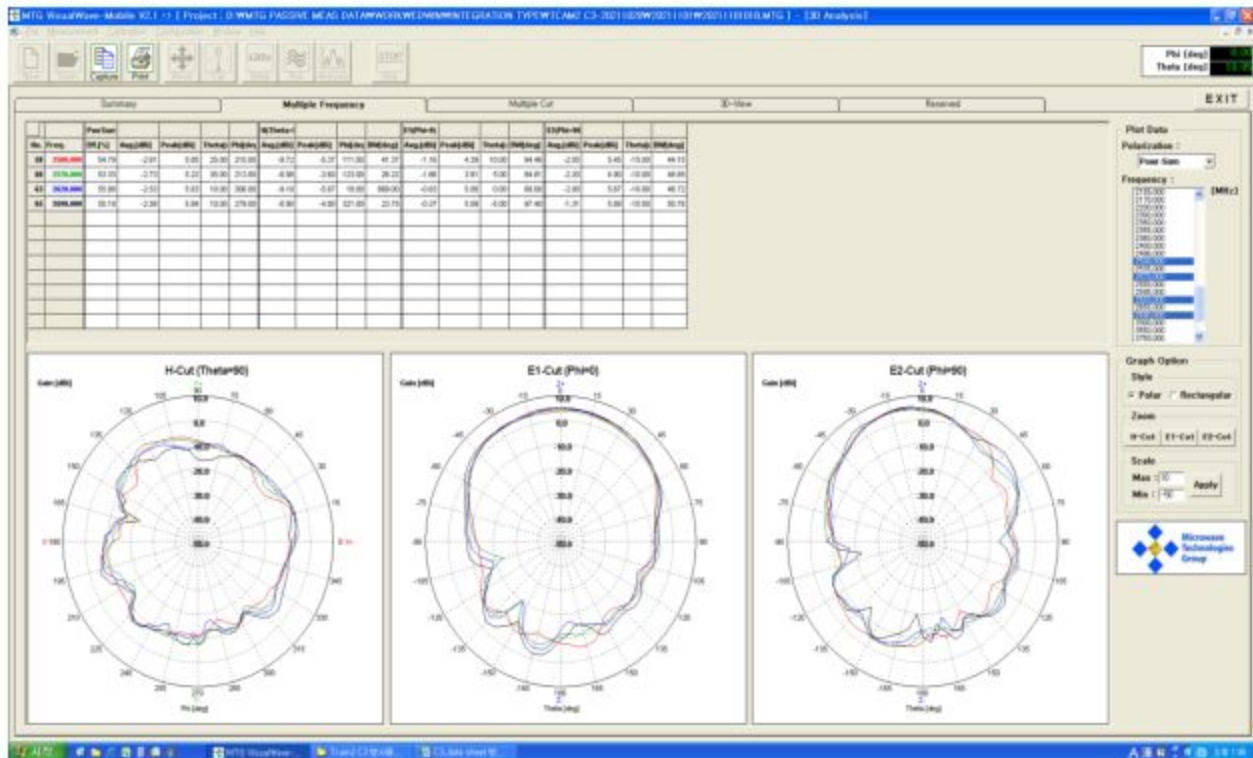


ANTENNA SPECIFICATION

- B1

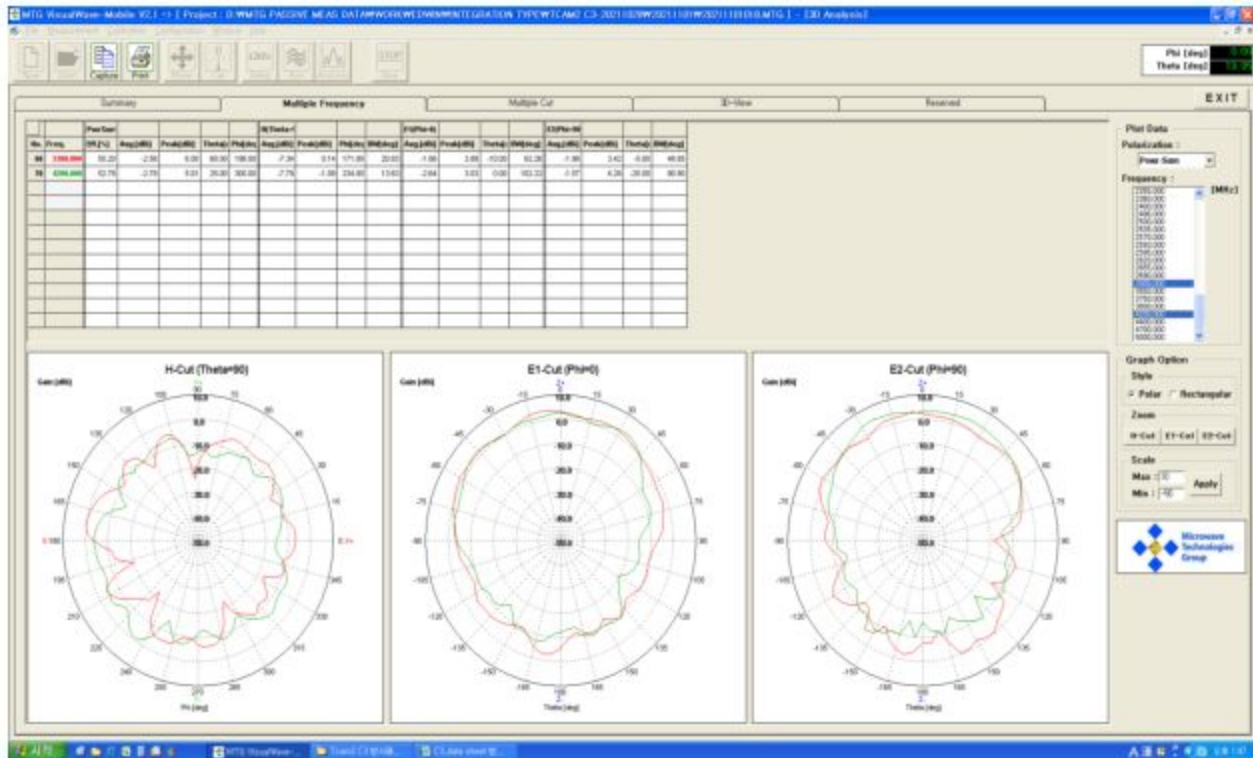


- B7

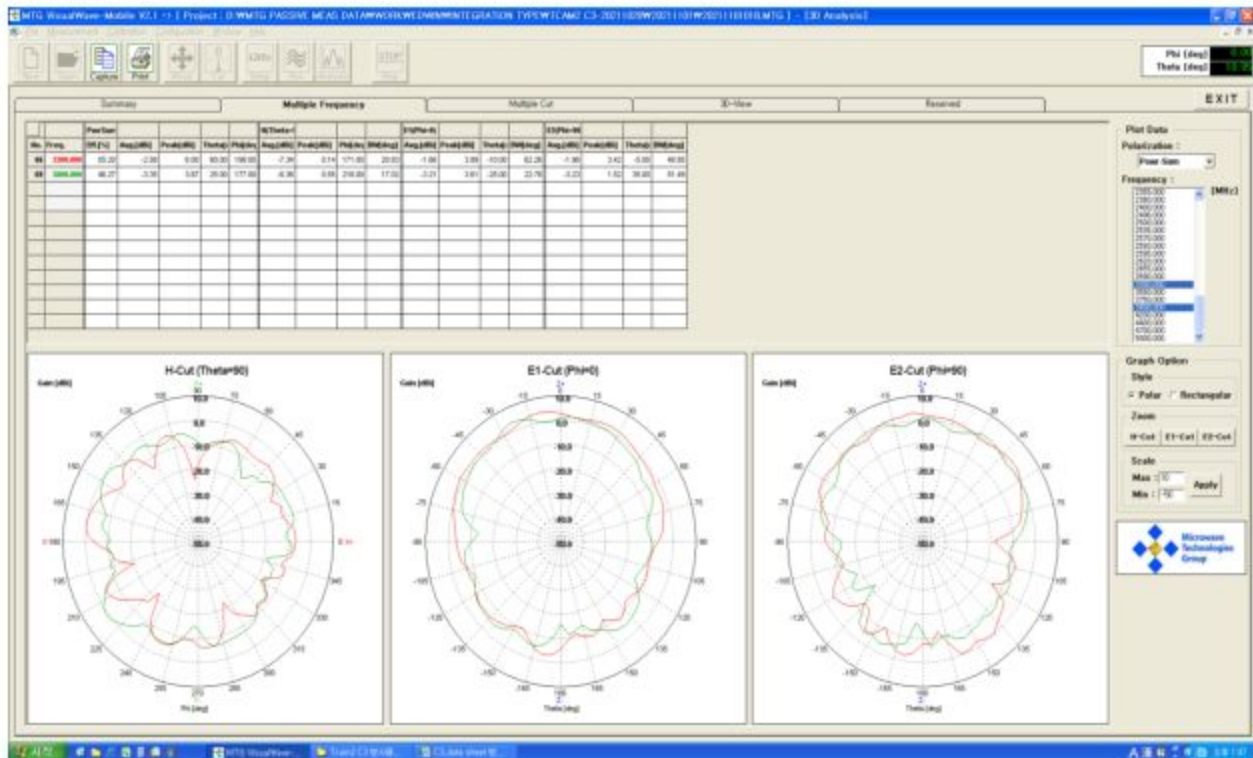


ANTENNA SPECIFICATION

- N77

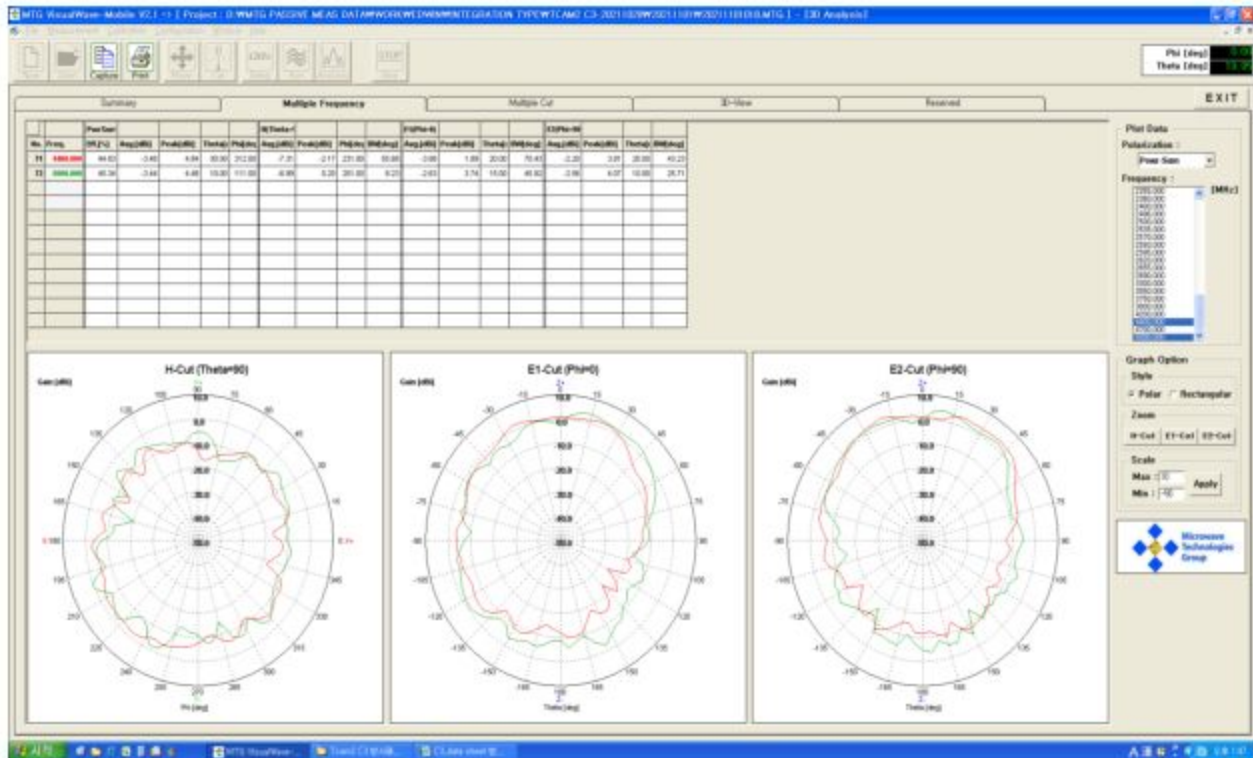


- N78



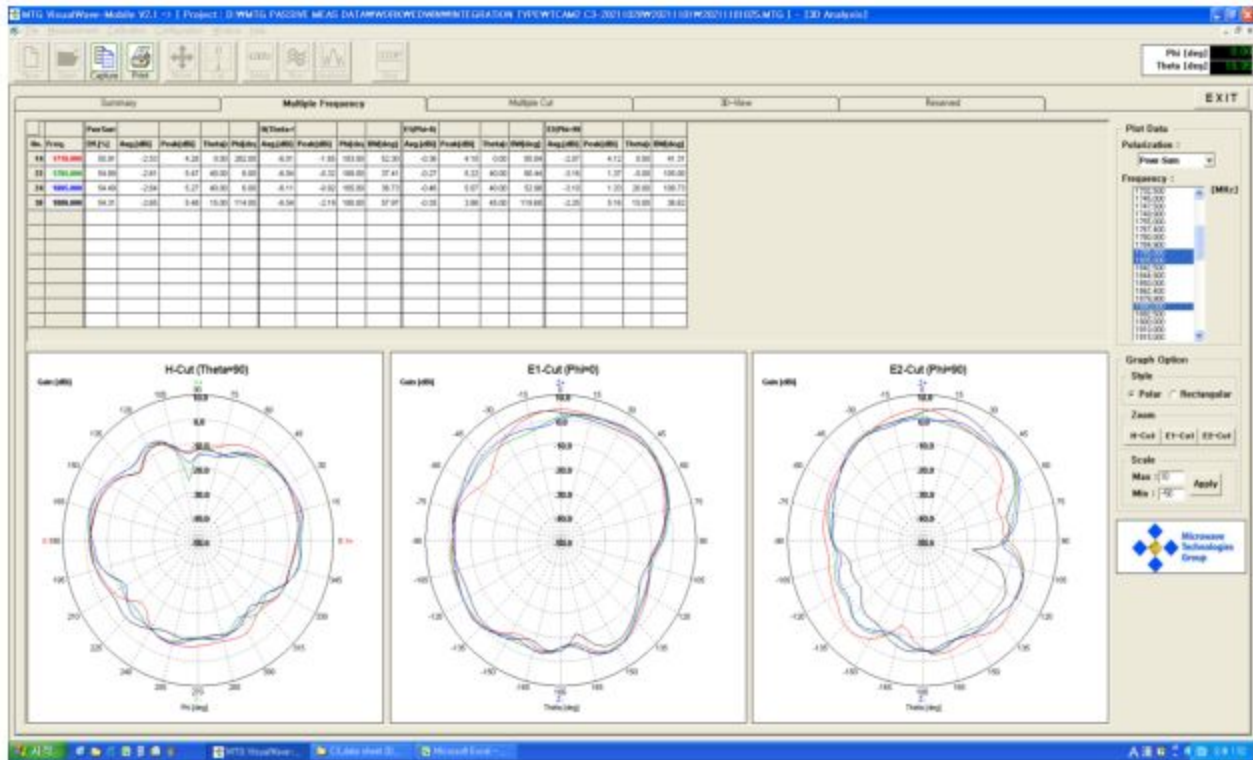
ANTENNA SPECIFICATION

- N79

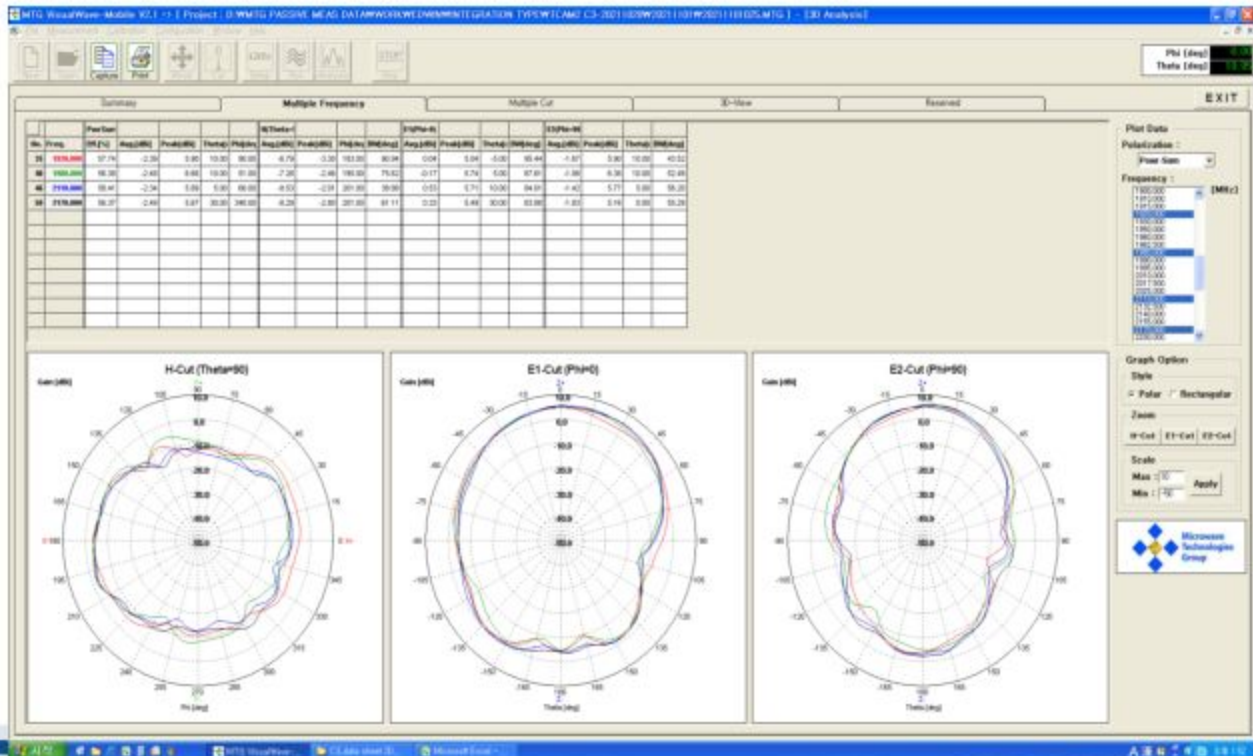


ANTENNA SPECIFICATION

3. LTE3
- B3

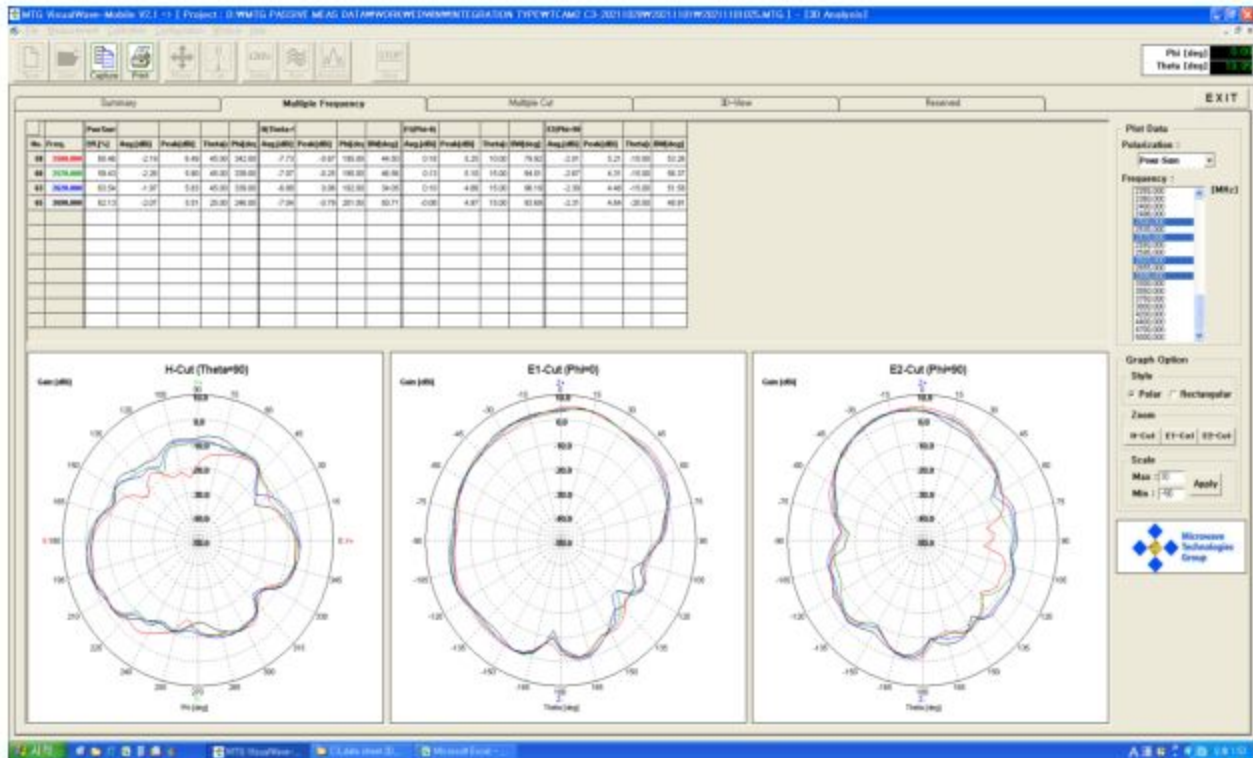


- B1

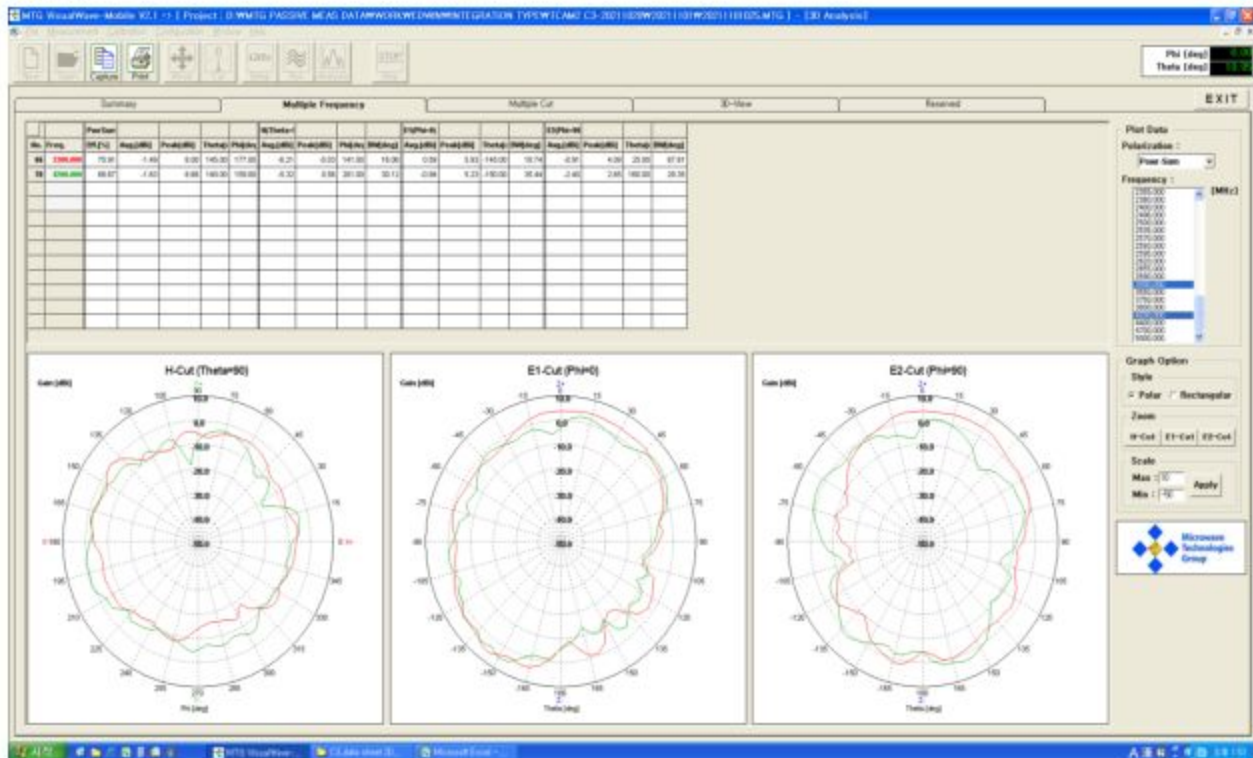


ANTENNA SPECIFICATION

- B7

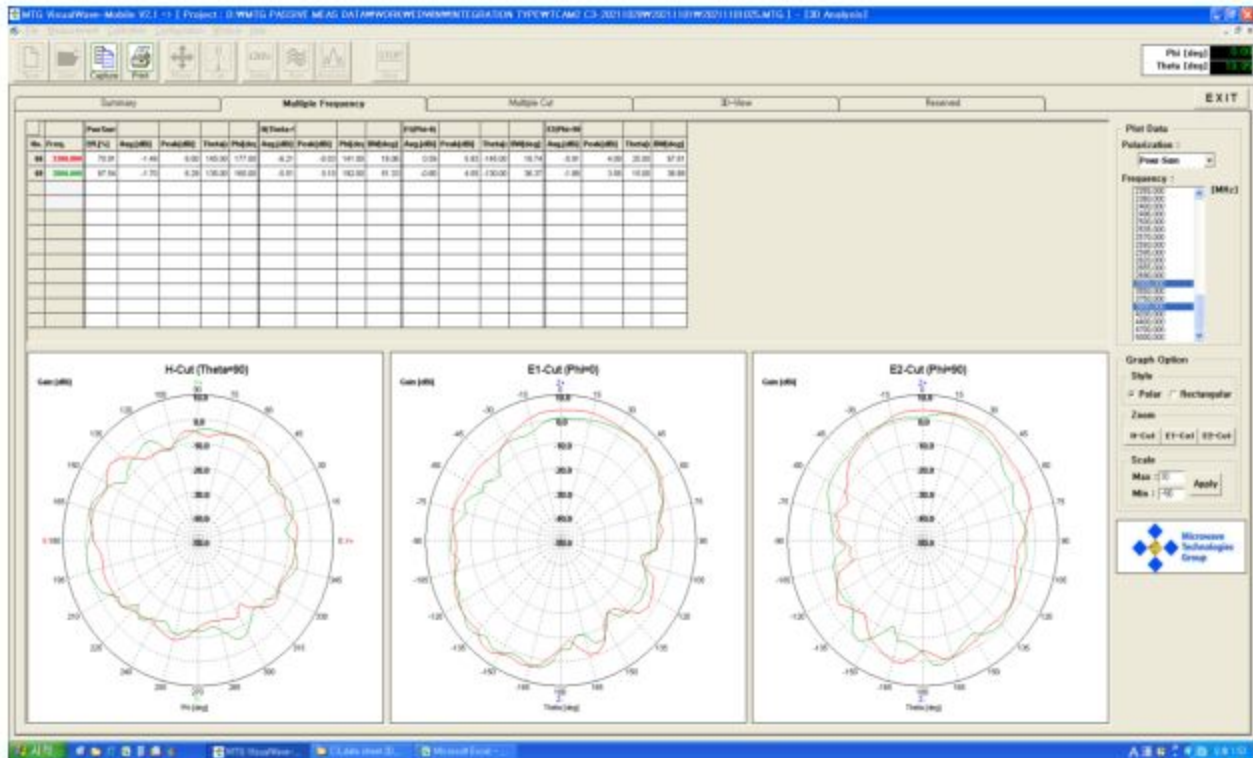


- N77

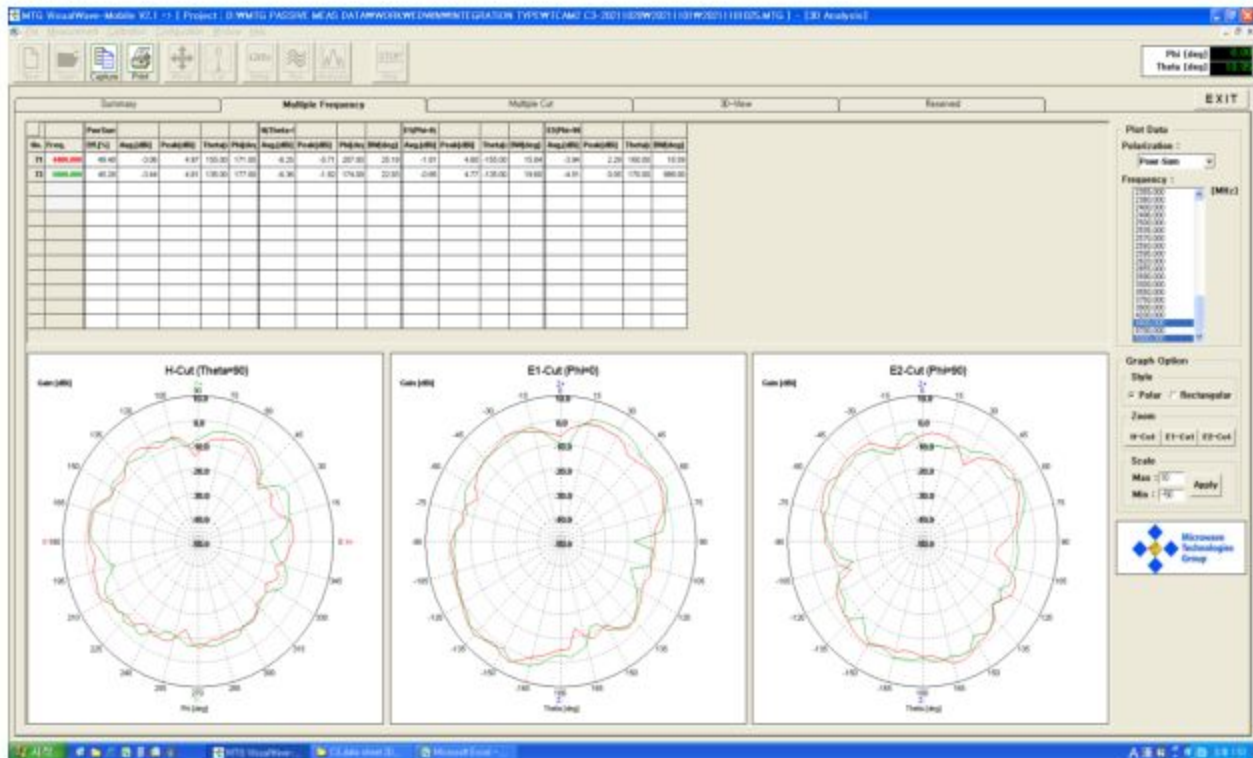


ANTENNA SPECIFICATION

- N78



- N79

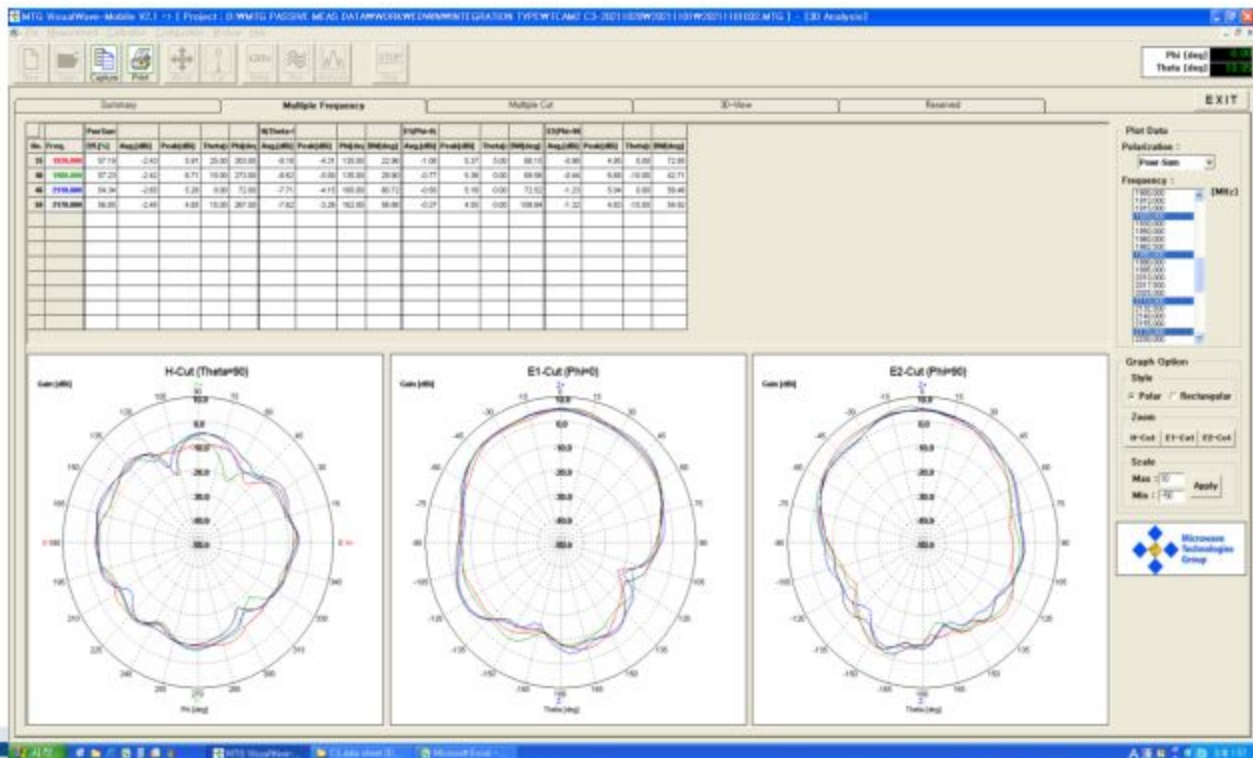


ANTENNA SPECIFICATION

4. LTE4
- B3



- B1

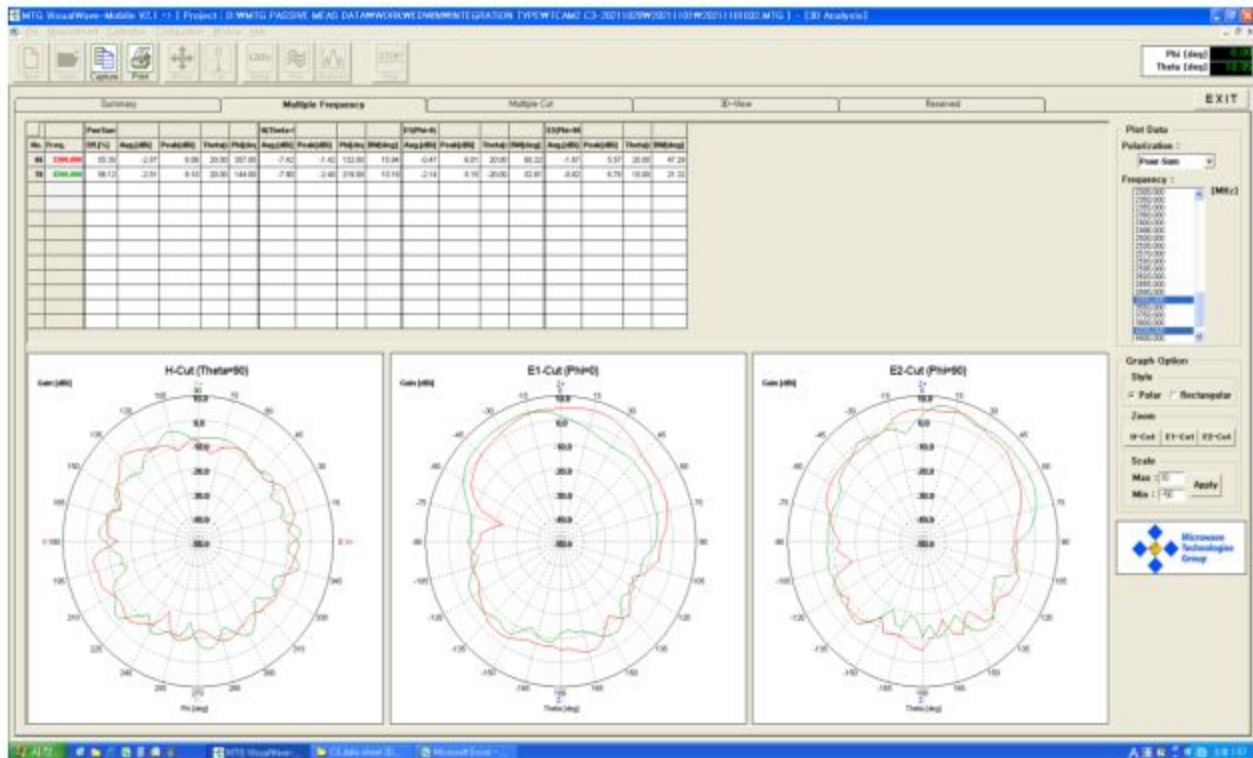


ANTENNA SPECIFICATION

- B7

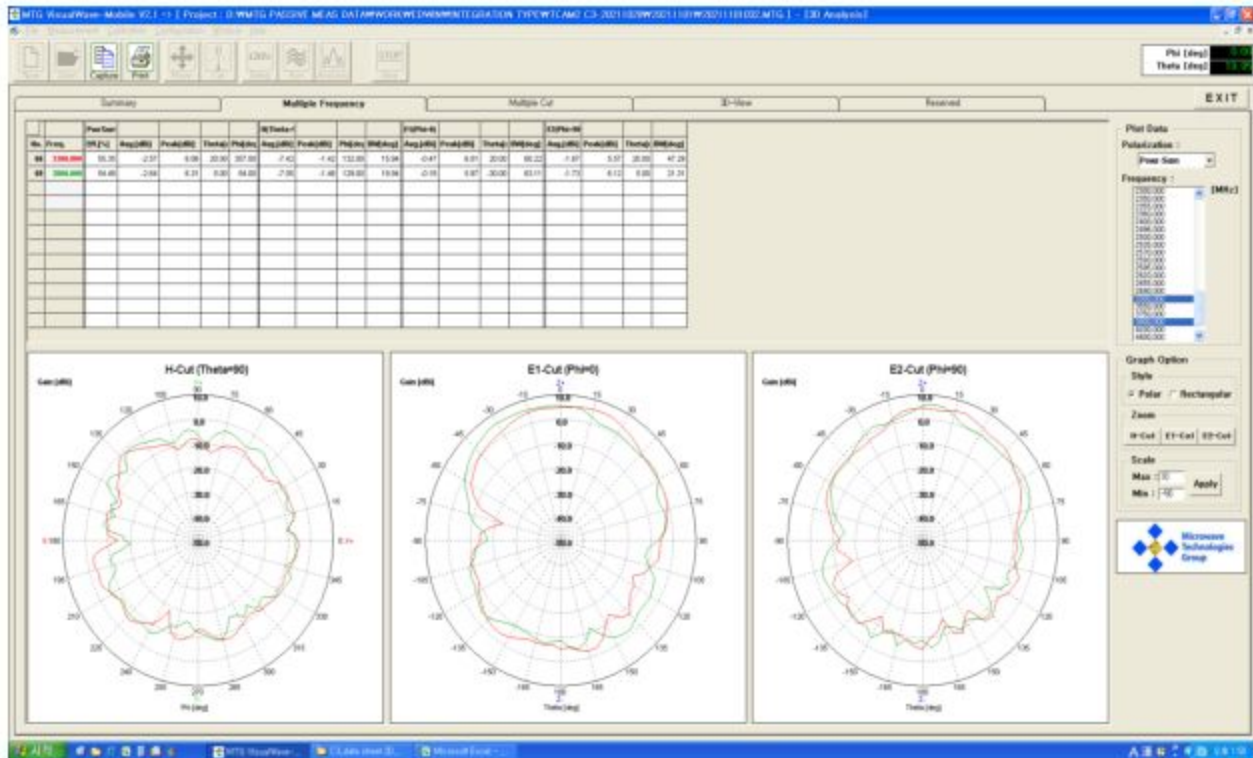


- N77

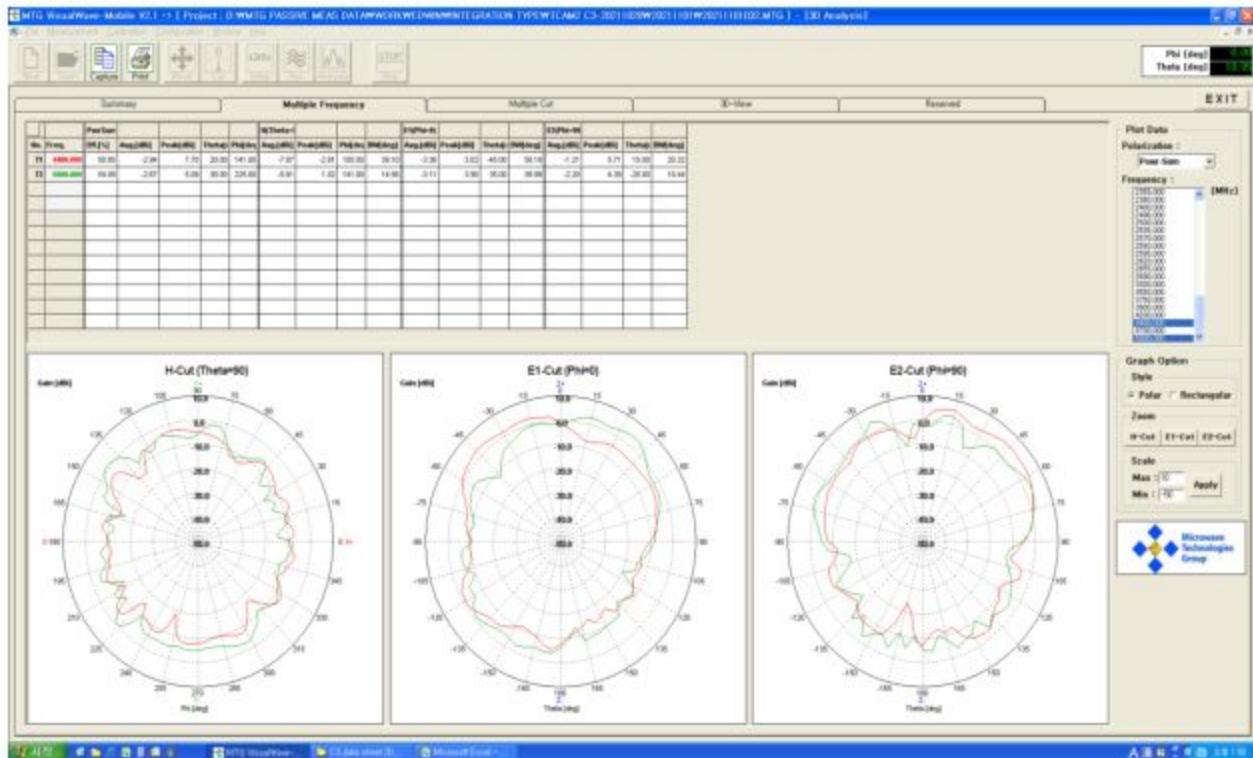


ANTENNA SPECIFICATION

- N78



- N79



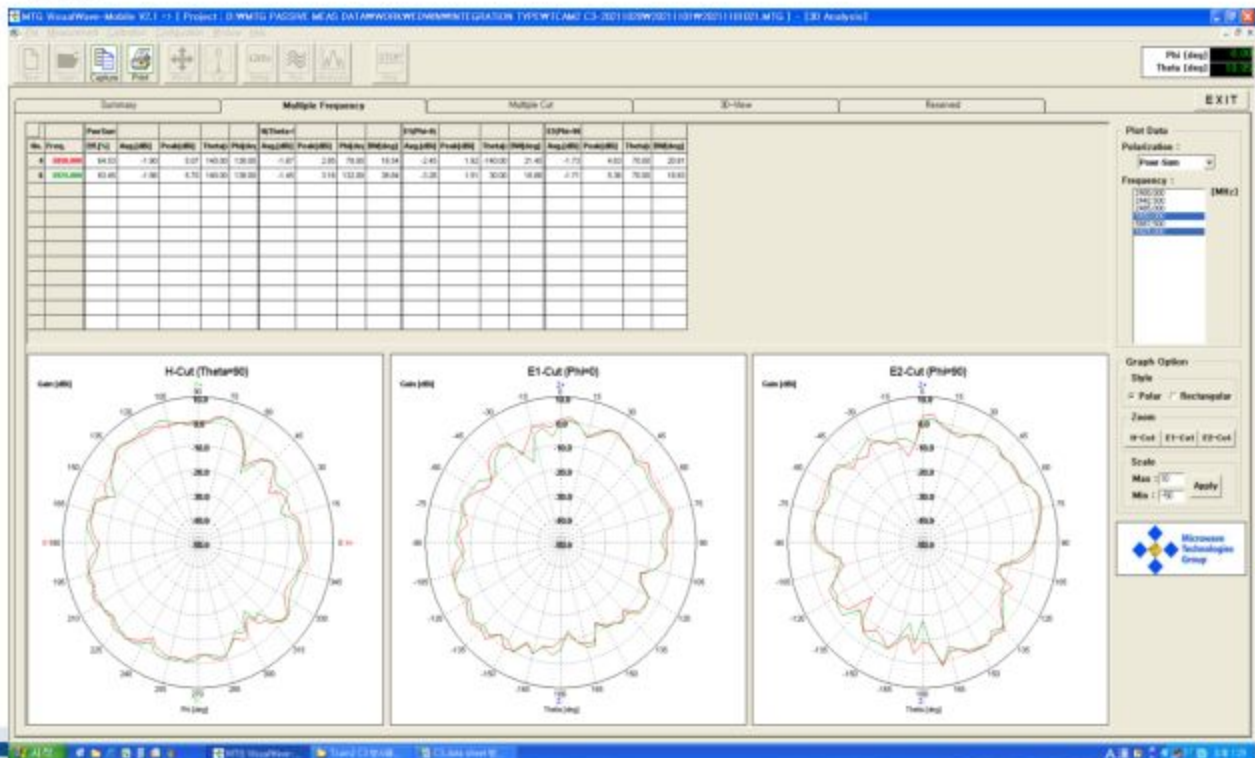
ANTENNA SPECIFICATION

5. BLE & V2X

- BLE



- **V2X**



ANTENNA SPECIFICATION

● PRODUCT DRAWING

