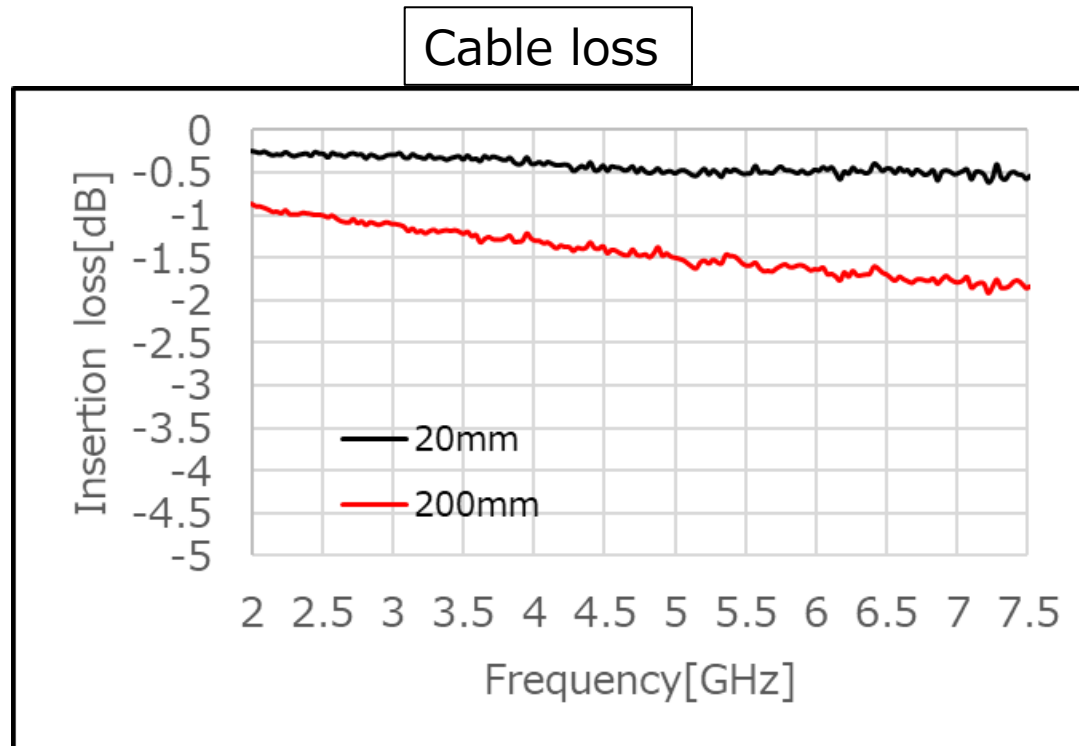


Specifications for antenna

- Antenna Model Name : ES206 Antenna
- Antenna Type : Monopole Antenna
- Antenna Gain (excluding cable loss.)
 - 2.4GHz band : 4.32dBi@2434MHz
 - 5GHz band : 4.29dBi@5180MHz, 5.04dBi@5690MHz, 5.45dBi@5850MHz
- Frequency : : 2400-2482MHz, 5150-5350MHz, 5470-5730, 5730-5850MHz
- Cable length : 20-200mm

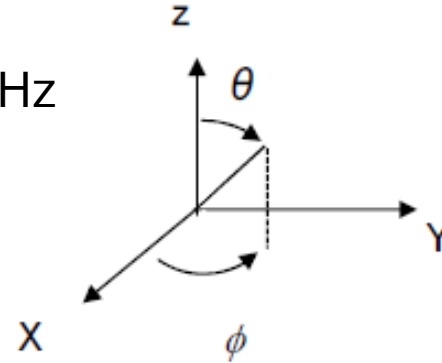
Specifications for antenna

- Cable loss (20mm):
0.30dB@2434MHz,
0.49dB@5180MHz, 0.50dB@5690MHz, 0.49dB@5850MHz
- Cable loss (200mm):
0.98dB@2434MHz,
1.55dB@5180MHz, 1.66dB@5690MHz, 1.61dB@5850MHz



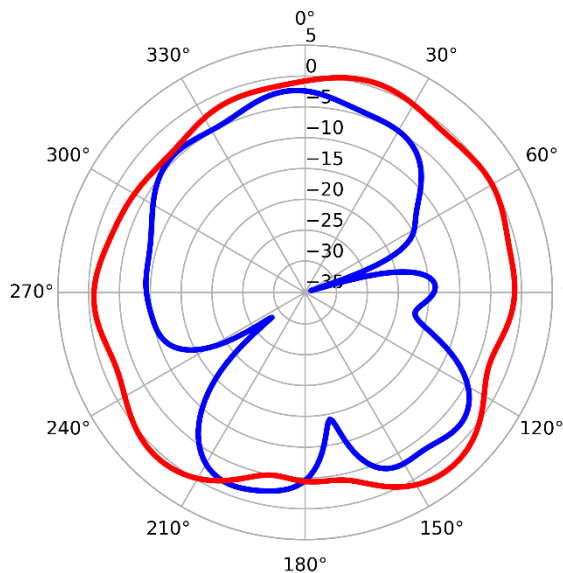
Specifications for antenna

- Peak Gain : E θ :4.32 [dBi]@2434 [MHz]
- Frequency : 2400-2482 [MHz]
- Radiation Pattern (unit:dBi) @2434MHz

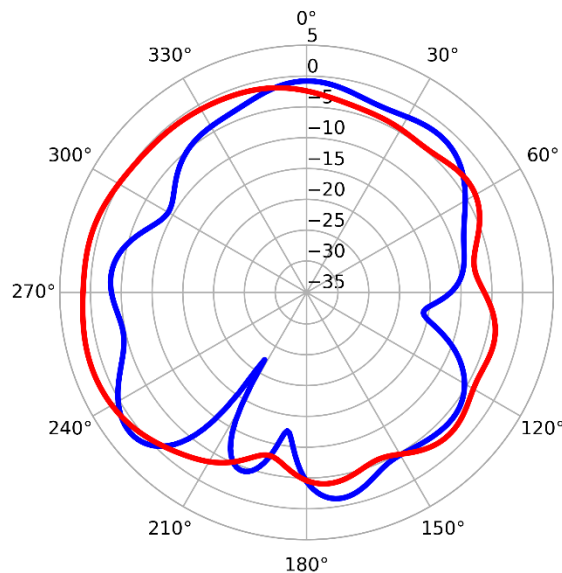


E θ : — (blue line)
E ϕ : — (red line)

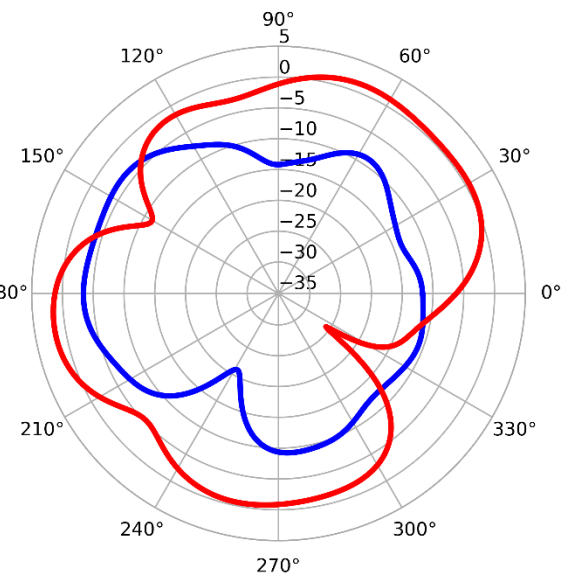
YZ



ZX

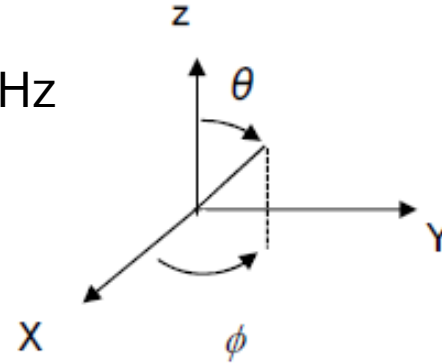


XY



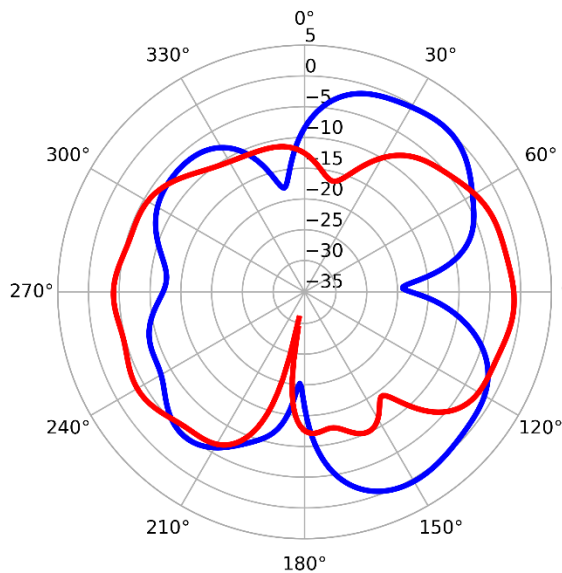
Specifications for antenna

- Peak Gain : E θ :4.29 [dBi]@5180 [MHz]
- Frequency : 5150-5350 [MHz]
- Radiation Pattern (unit:dBi) @5180MHz

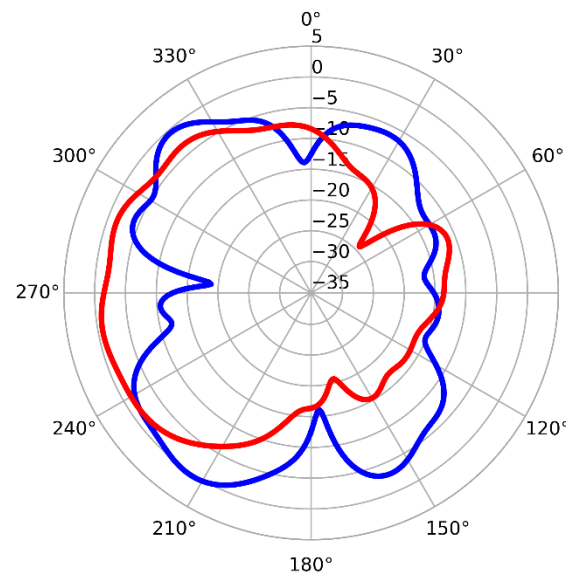


E θ : ——— (Blue line)
E ϕ : ——— (Red line)

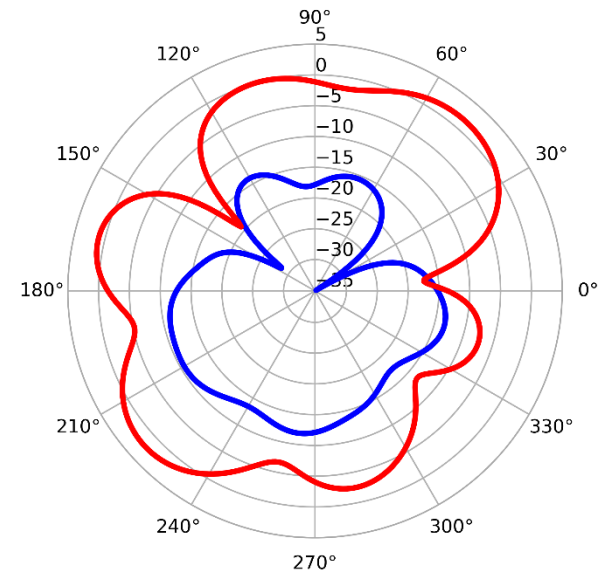
YZ



ZX

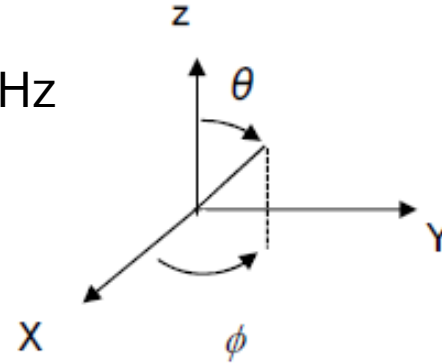


XY



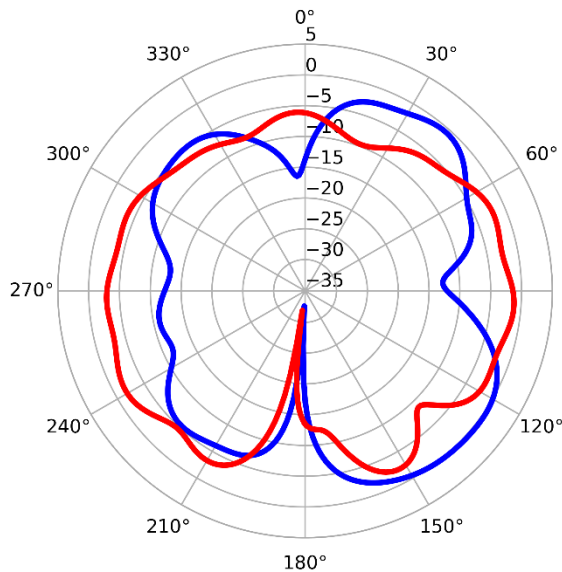
Specifications for antenna

- Peak Gain : $E \phi$: 5.04 [dBi]@5690 [MHz]
- Frequency : 5470-5730 [MHz]
- Radiation Pattern (unit:dBi) @5690MHz

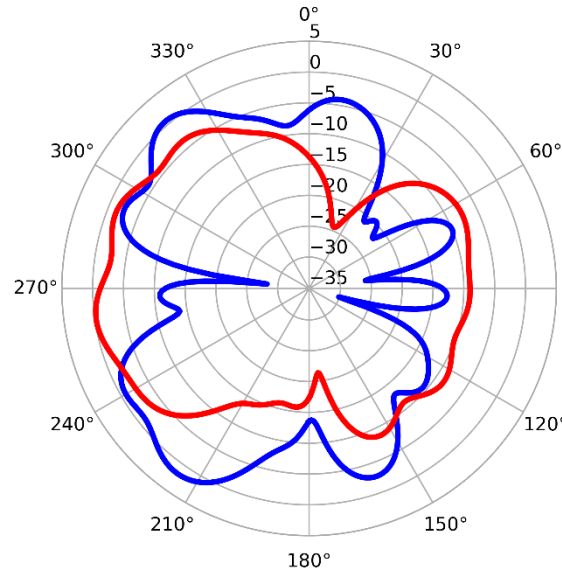


$E \theta$: — (blue line)
 $E \phi$: — (red line)

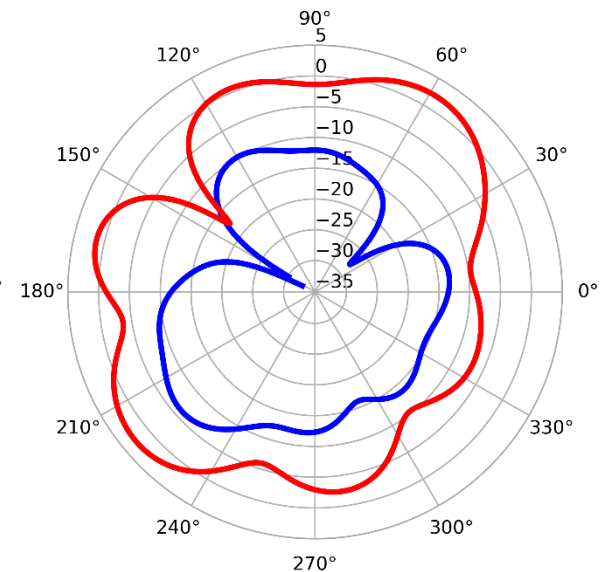
YZ



ZX

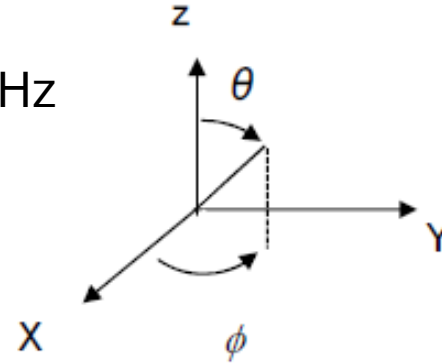


XY



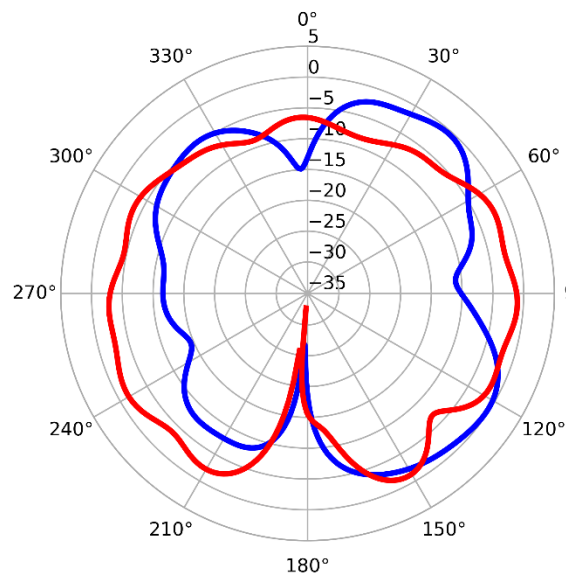
Specifications for antenna

- Peak Gain : E θ : 5.45 [dBi] @ 5850 [MHz]
- Frequency : 5730-5850 [MHz]
- Radiation Pattern (unit:dBi) @ 5850MHz

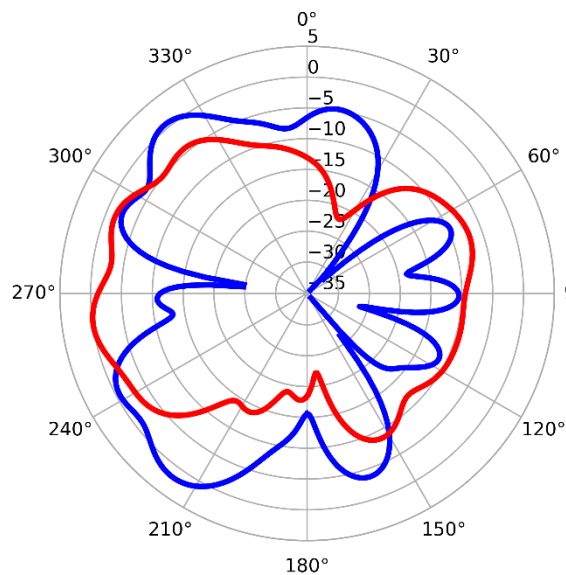


E θ : ——— (Blue line)
E ϕ : ——— (Red line)

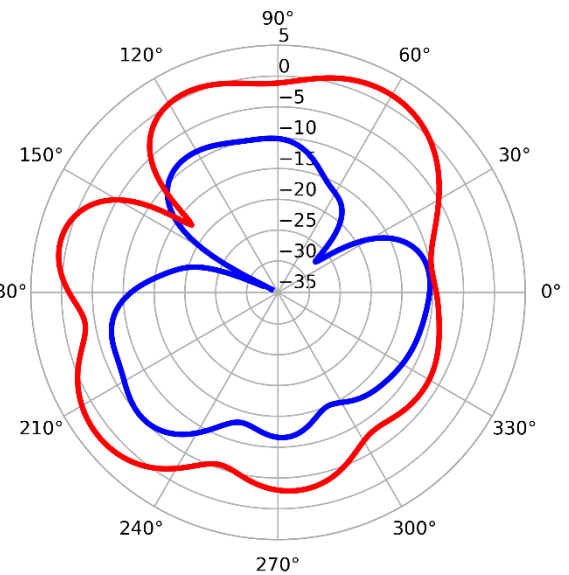
YZ



ZX



XY

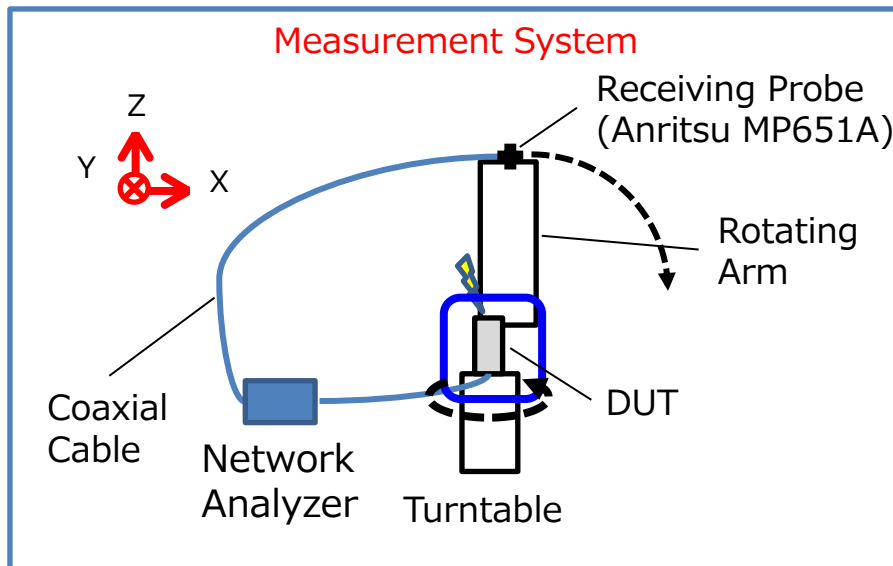


- Calibrated Equipment : Network Analyzer : E5080B(Keysight)
- Calibration Date : 6 January 2025
- Test Date : 24 September 2025
- Test Engineer : Canon Corporation, Tomoyasu Soma
- Commercial Test Software Used : Network Analyzer Application(ver. A-15.10.08)

- Traceability Information of Equipment Used for Calibration :

Product Number	Product Name	Equipment Management Number	Calibration Due Date	Certificate
5071A	Primary frequency standard	2308	16 Apr 2025	WO-00740026
N4690D	18 GHz 2-port type-N 50 ohm ECal module	4508	4 Apr 2025	WO-00728514
N4690D	18 GHz 2-port type-N 50 ohm ECal module	4509	8 Mar 2025	WO-00695982
N4691D	26.5 GHz 2-port 3.5 mm ECal module	4385	28 Jun 2025	WO-00805293
N5247B	10 MHz to 67 GHz PNA-X network analyzer	SVC1124	31 Oct 2025	WO-00930334
U8485A	USB Power Sensor; 10MHz-33GHz; -33dBm to +20dBm	4333	3 Jul 2025	WO-00804387

- Measurement Method Description



1. The device under test (DUT) emits electromagnetic waves.
2. The receiving probe captures the electromagnetic waves.
3. Measure the transmission strength between the DUT and the probe.
4. The rotating arm and turntable rotate, performing steps 1-3 at each angle to measure the radiation pattern of the entire sphere.