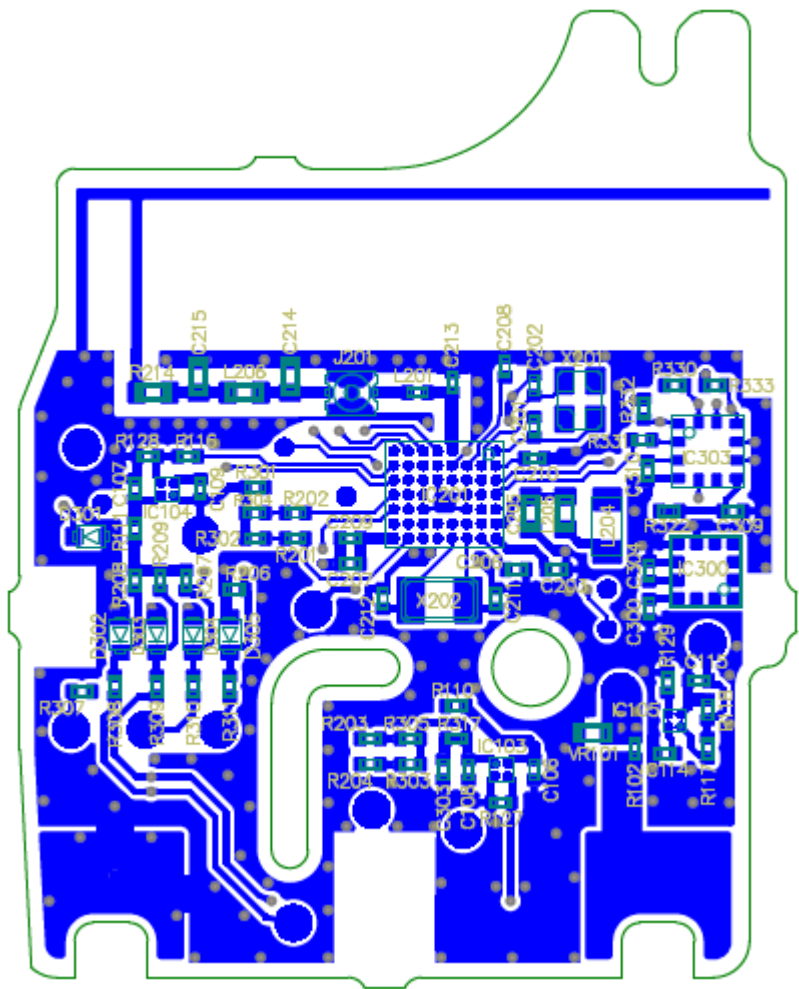
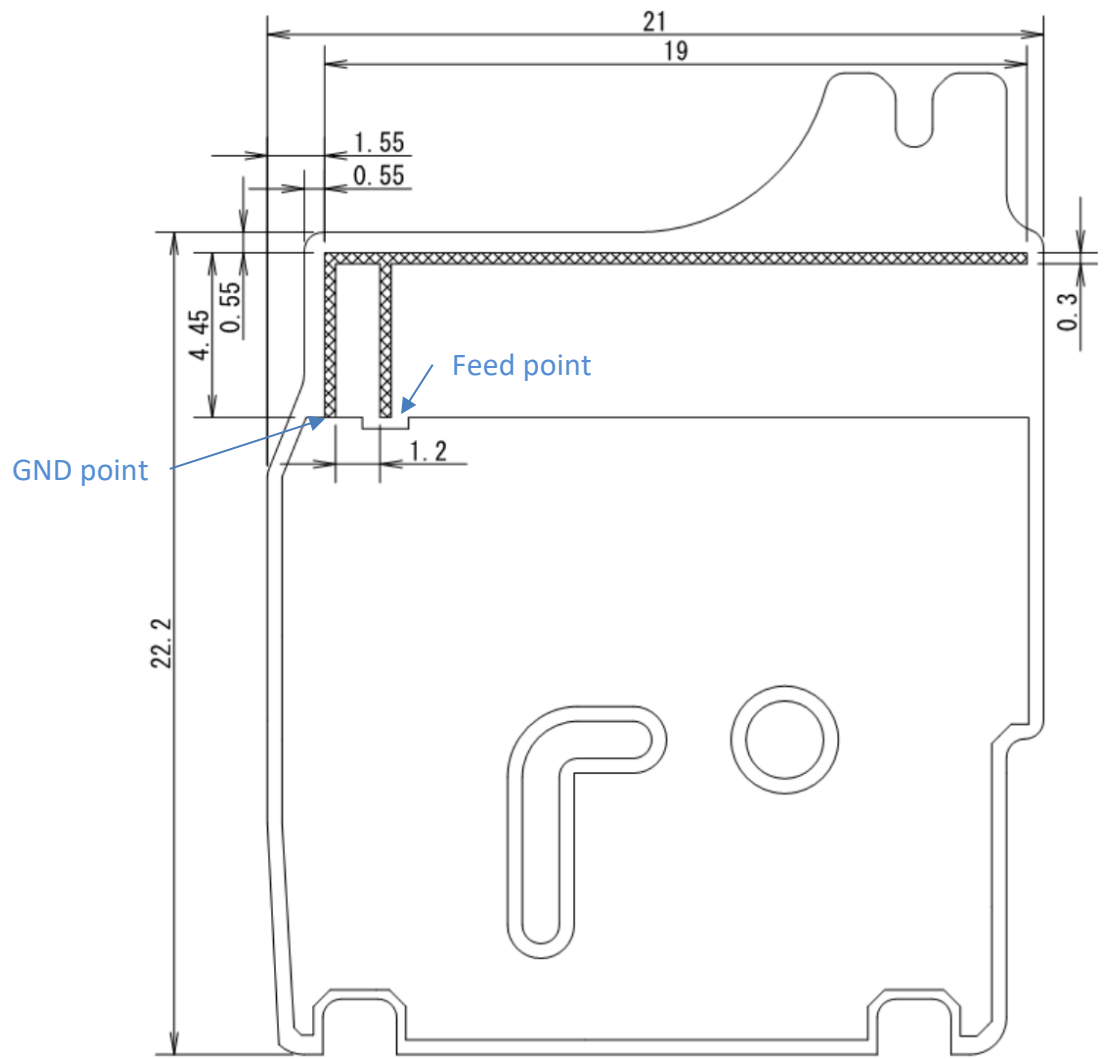


Antenna Type

Inverted F Pattern Antenna

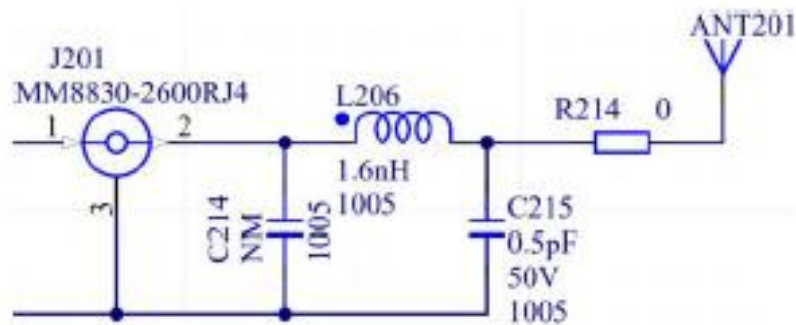


Size & Location



Unit : mm

Antenna Parameters



After matching



Impedance

Performance Summary

Antenna type :
Inverted F Pattern Antenna

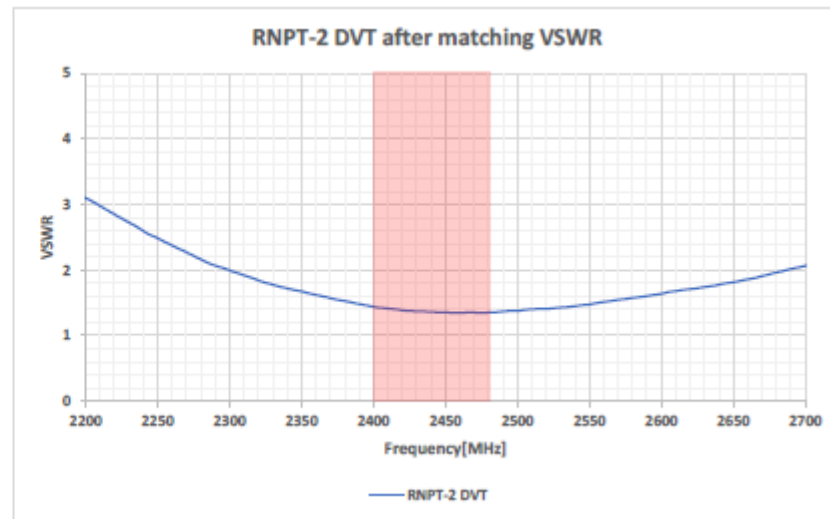
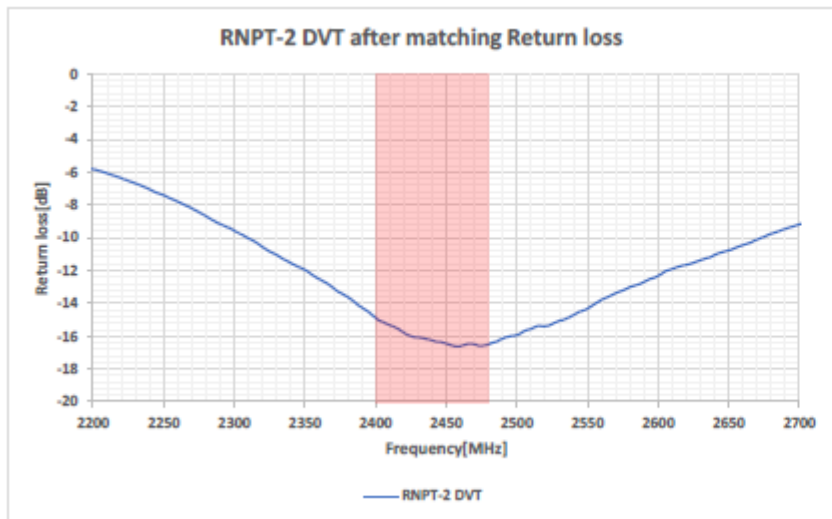
Frequency :
2402 MHz – 2480 MHz

Peek Gain :
+1.20 dBi

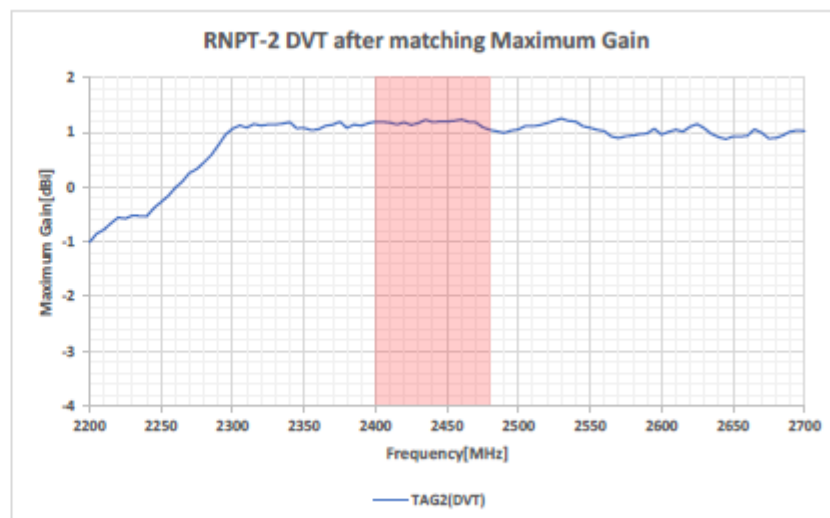
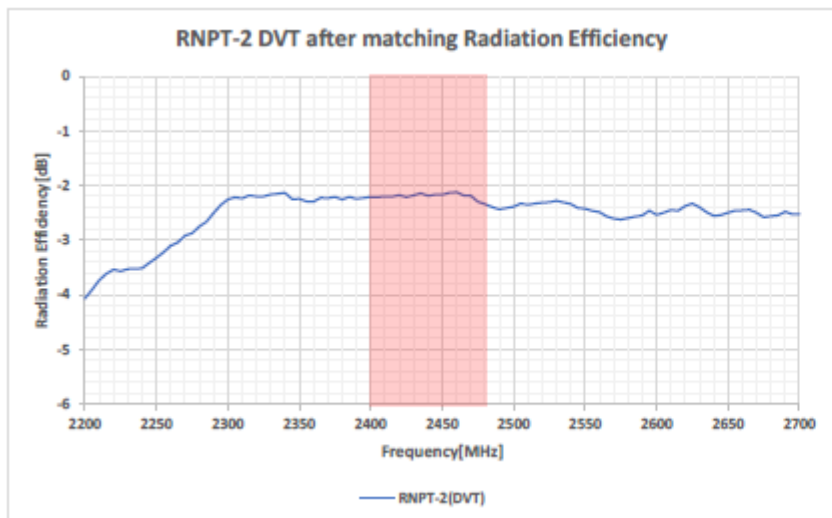
Antenna Characteristics			RNPT-2(DVT) after matching		
Frequency [MHz]			2402	2440	2480
VSWR			1.43	1.36	1.35
Return loss [dB]			-15.01	-16.26	-16.50
Antenna Gain	Plane	Polarization	RNPT-2(DVT) after matching		
Frequency [MHz]			2402	2440	2480
Radiation gain [dBi] Average of each plane	XY	H	-4.84	-4.96	-5.03
		V	-7.55	-7.12	-7.22
	YZ	H	-1.15	-1.22	-1.41
		V	-9.74	-9.50	-9.58
	ZX	H	-22.29	-21.60	-20.85
		V	-3.56	-3.42	-3.66
Average gain of 3-plain [dBi]			-2.16	-2.12	-2.28
Maximum Gain [dBi]			1.20	1.19	1.05

Performance Results - 1

Return Loss & VSWR

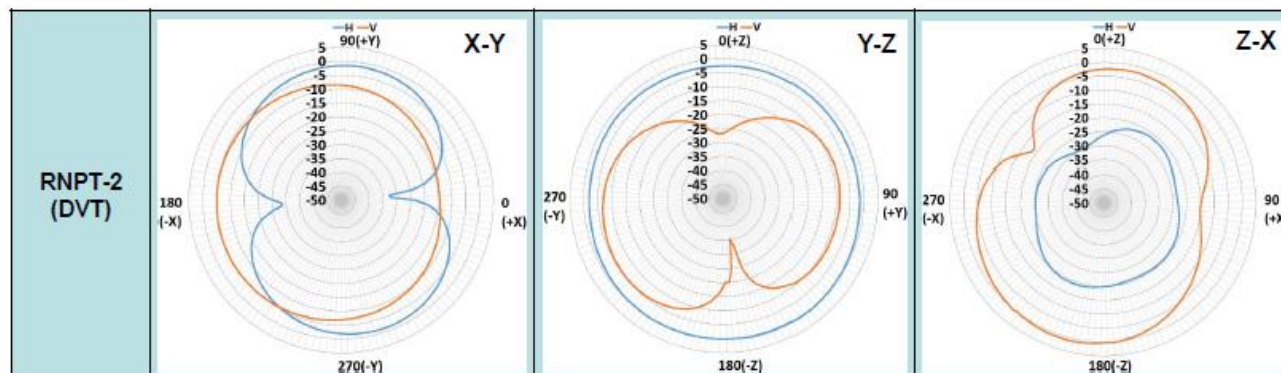


Radiation Efficiency & Maximum Gain

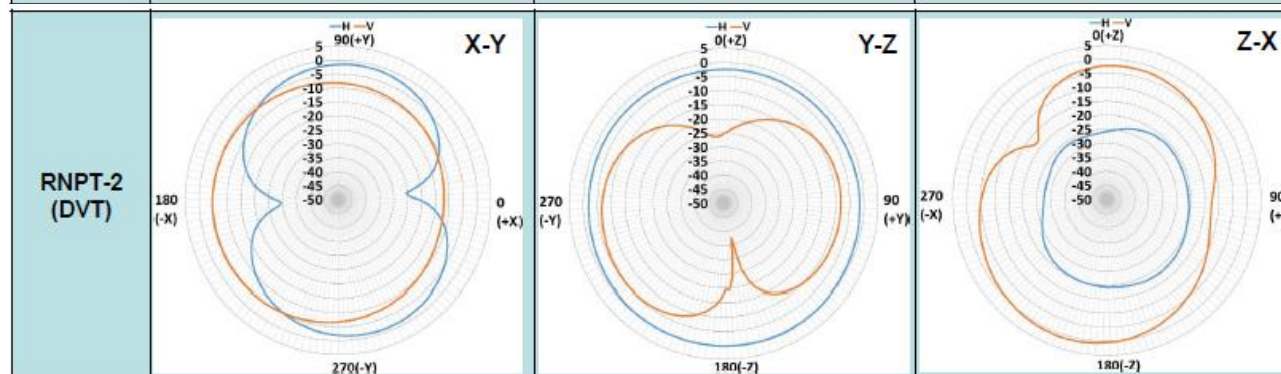


Performance Results - 2

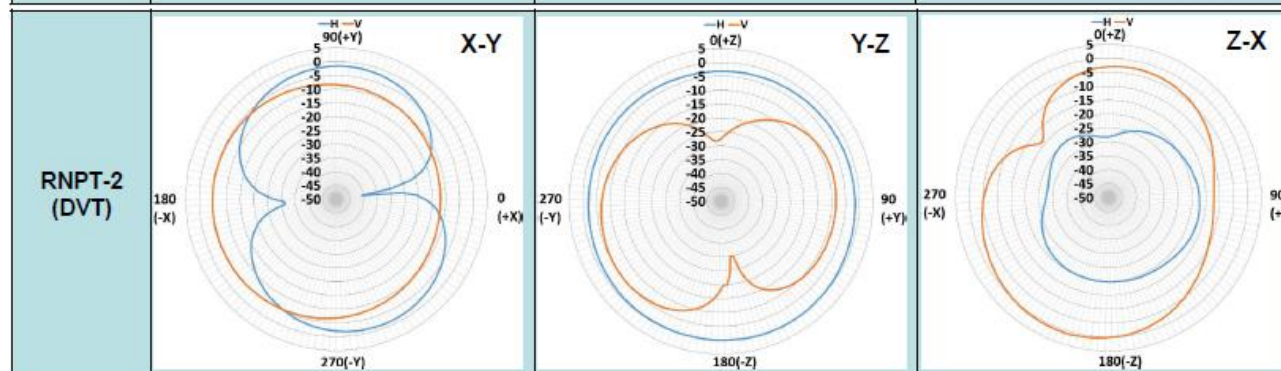
Radiation Pattern
2402 MHz



Radiation Pattern
2440 MHz



Radiation Pattern
2480 MHz



Unit : dBi

RNPT-2 RF Area Photo

RF Chip
nRF52832-CIAA-R-E

Bluetooth ANT

