



WiFi

RoHS
Compliant 

Product Name: 2.4GHz/ 5.8GHz WiFi Antenna, Adhesive Mount

Part Number: EW-29B-AS-W01

Features:

- WiFi 2.4GHz/ 5.8GHz Bands Supporting
- Low Profile Structure
- Over-molding antenna to protect the PCB
- Cables & Connectors Customizable
- RoHS & REACH Compliant

Applications:

- Vehicle Communication
- Vending Machine Application
- For Wireless Local Area Network applications



2.4GHz/ 5.8GHz WiFi Antenna, Adhesive Mount

MODEL: EW-29B-AS-W01

WI-RD-D-343 V1.0

I. Specifications:

Category	WiFi Specifications						
Frequency (MHz)	2400	2450	2500	5150	5350	5725	5850
Efficiency (%)							
30cm	79.07	76.91	79.98	71.78	65.31	70.63	62.37
1m	62.09	60.39	62.81	49.55	45.08	47.97	42.36
2m	43.95	42.76	44.46	29.17	26.55	27.61	24.38
3m	31.12	30.27	31.48	17.18	15.63	15.89	14.03
5m	15.60	15.17	15.78	5.96	5.42	5.26	4.65
Average Gain (dBi)							
30cm	-1.02	-1.14	-0.97	-1.44	-1.85	-1.51	-2.05
1m	-2.07	-2.19	-2.02	-3.05	-3.46	-3.19	-3.73
2m	-3.57	-3.69	-3.52	-5.35	-5.76	-5.59	-6.13
3m	-5.07	-5.19	-5.02	-7.65	-8.06	-7.99	-8.53
5m	-8.07	-8.19	-8.02	-12.25	-12.66	-12.79	-13.33
Peak Gain (dBi)							
30cm	4.15	4.45	5.13	6.87	6.13	6.63	7.01
1m	3.10	3.40	4.08	5.26	4.52	4.95	5.33
2m	1.60	1.90	2.58	2.96	2.22	2.55	2.93
3m	0.10	0.40	1.08	0.66	-0.08	0.15	0.53
5m	-2.90	-2.60	-1.92	-3.94	-4.68	-4.65	-4.27
V.S.W.R	< 2						
Return Loss (dB)	< -10						
Impedance (Ω)	50						
Test Condition	Free Space						
Polarization	Linear						

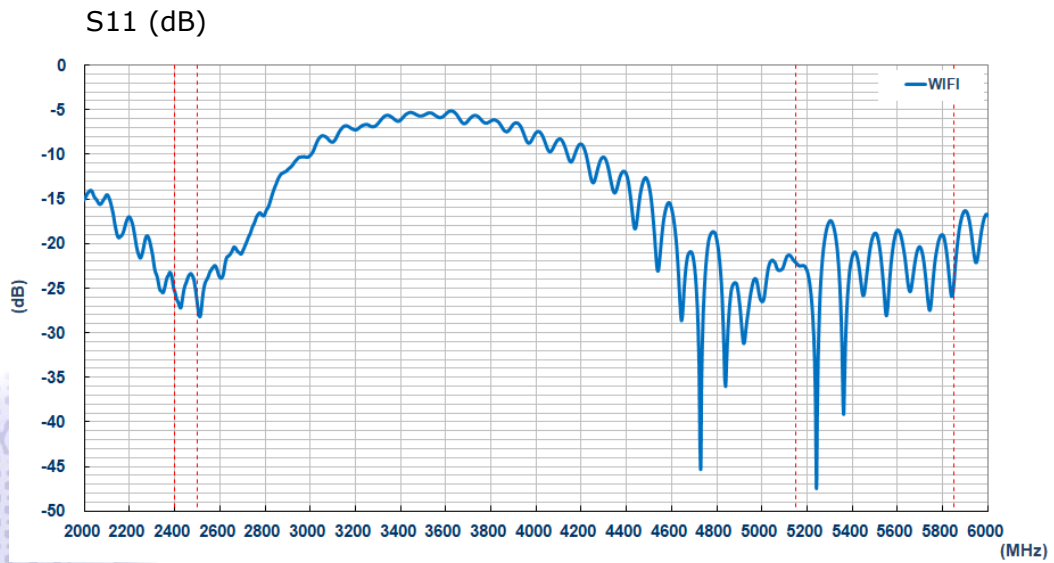
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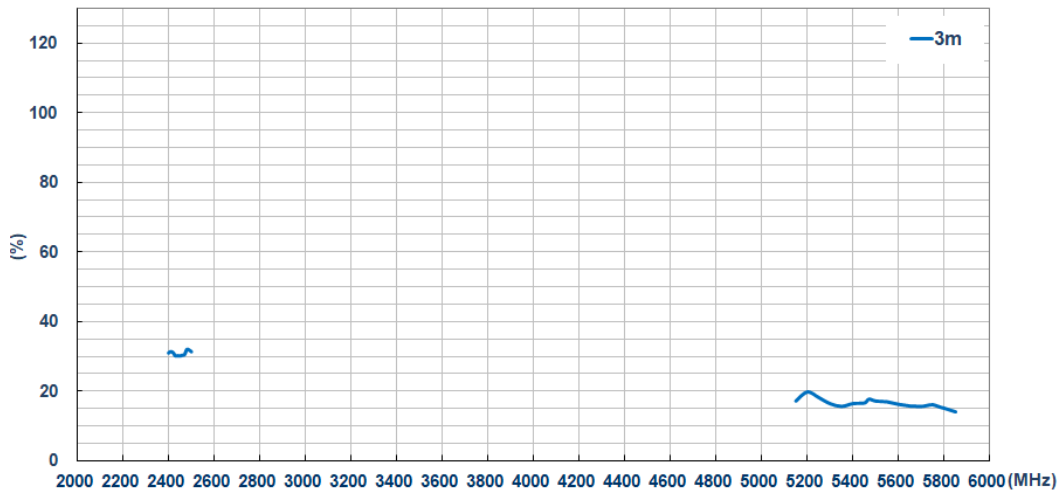
Physical Properties	
Dimension (mm)	116(L) x 21.8(W) x 4.7(H)
Cable & Length	H-100 _3 meters
Connector	SMA (Male)
Environmental Conditions	
Operating Temperature	-40 ~ +85 °C
Storage Temperature	-40 ~ +85 °C
Relative Humidity	95% non-condensing

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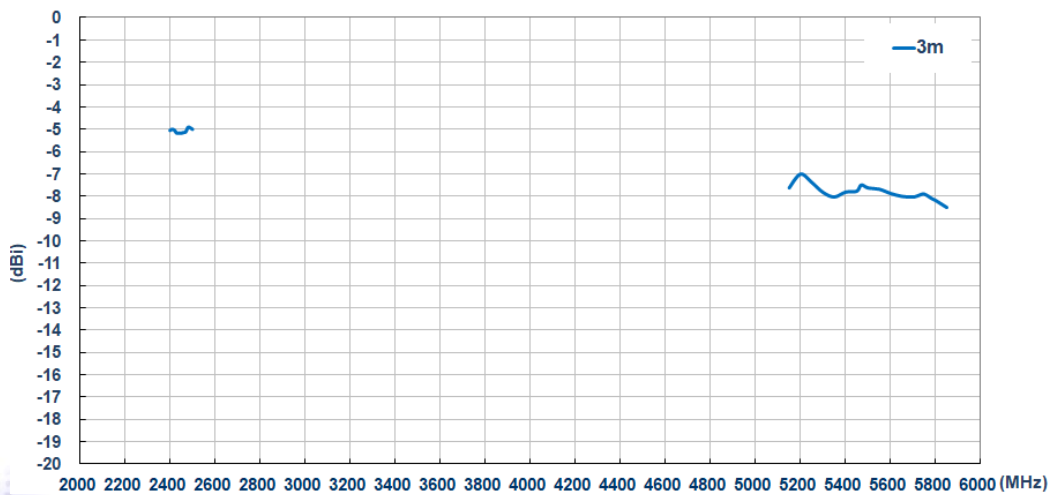
II. Antenna Technical Parameters:



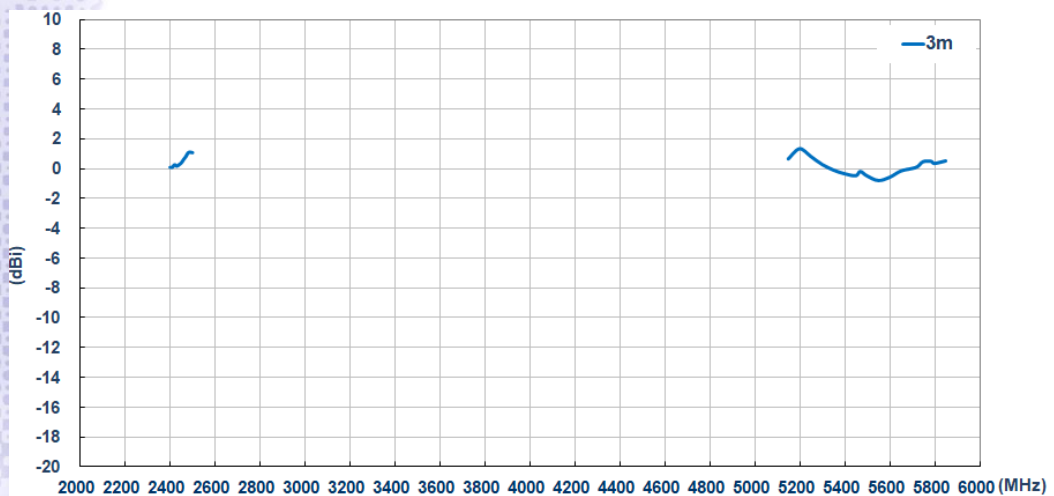
Efficiency (%)



Average Gain (dBi)

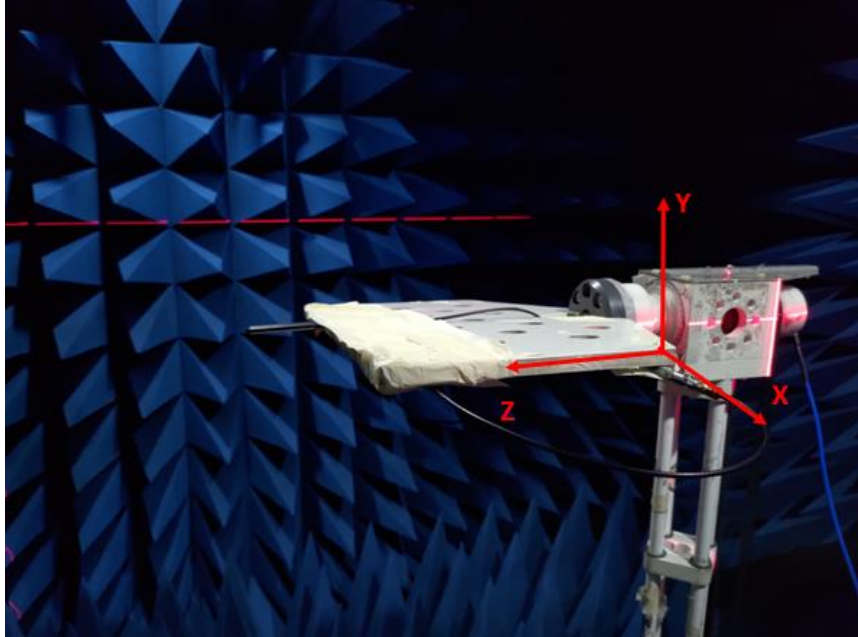


Peak Gain (dBi)



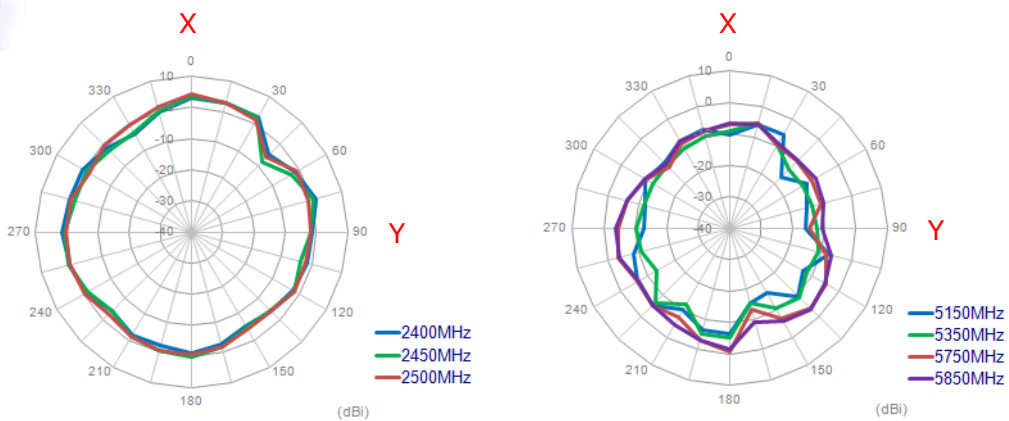
III. Antenna Radiation Pattern Measurement:

The antenna radiation patterns were measured in Anechoic Chamber.
The measurement setup as below,

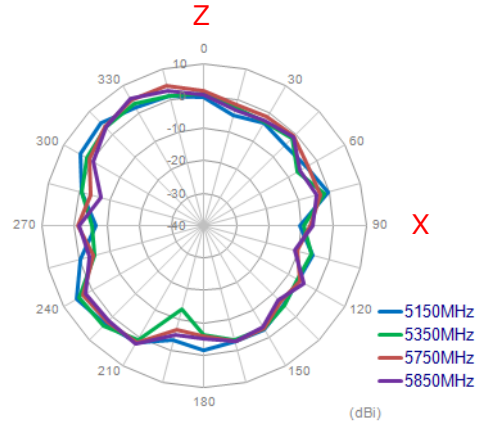
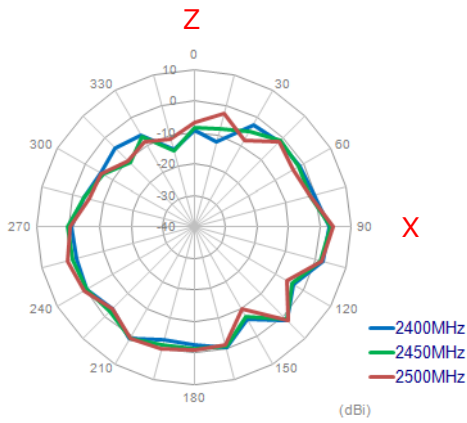


IV. 2D Radiation Pattern:

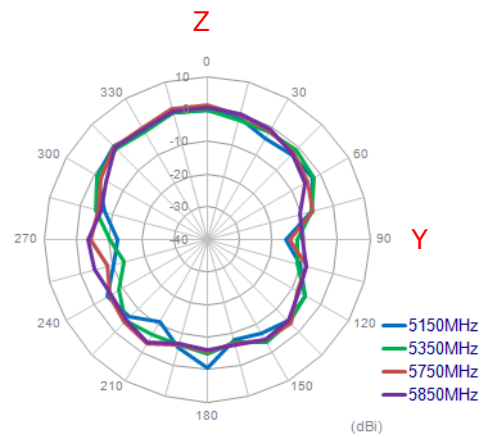
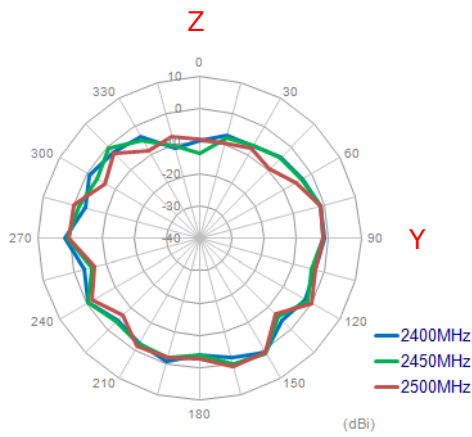
X-Y Plane



X-Z Plane



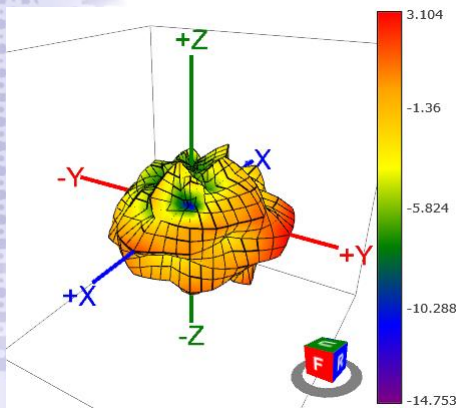
Y-Z Plane



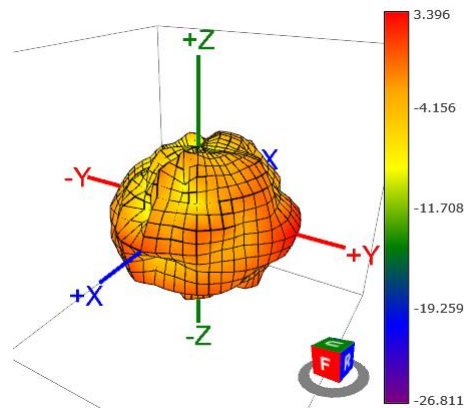
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V. 3D Radiation Pattern:

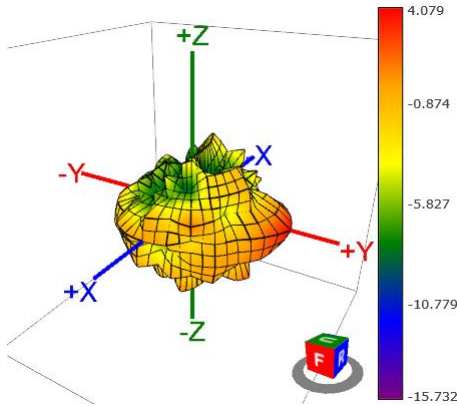
2400MHz



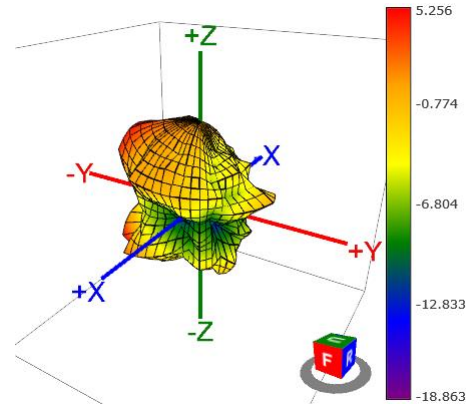
2450MHz



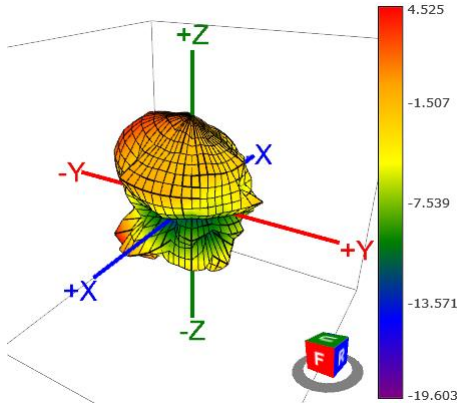
2500MHz



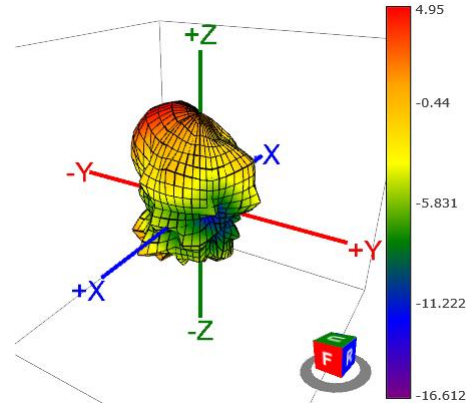
5150MHz



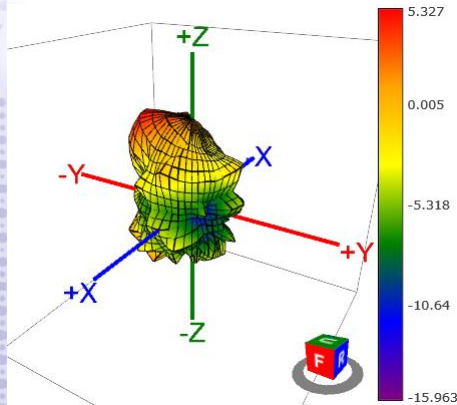
5350MHz



5750MHz



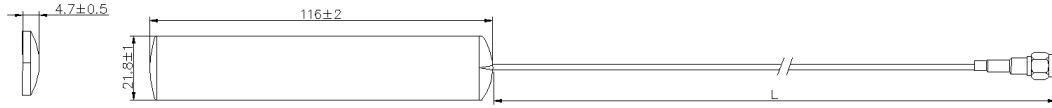
5850MHz



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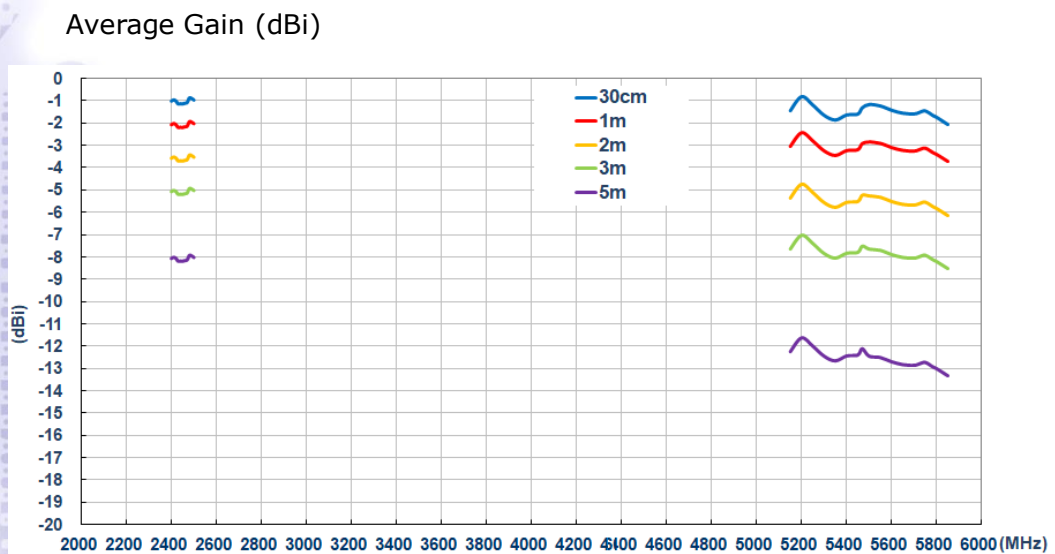
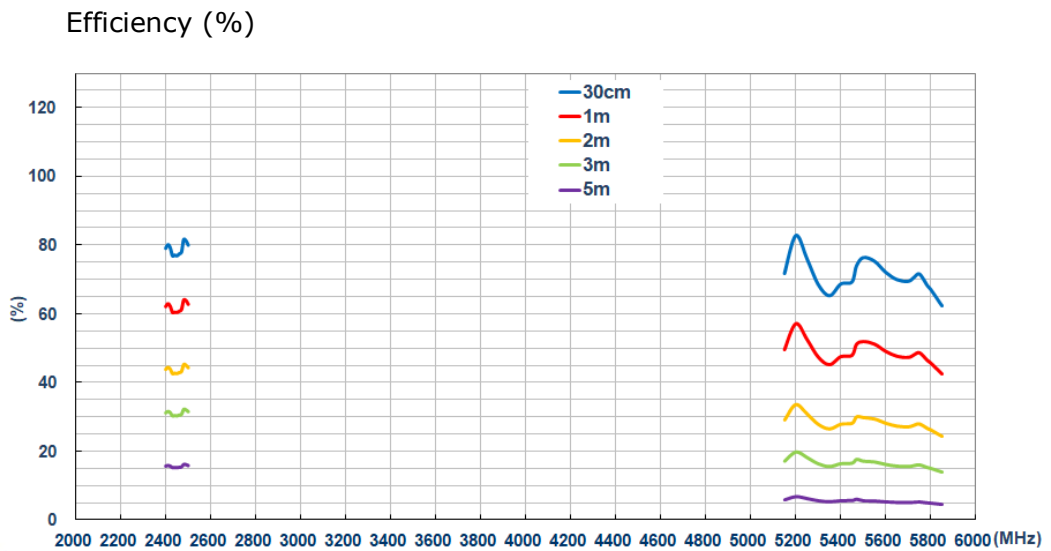


VI. Mechanical Drawing (Unit:mm):

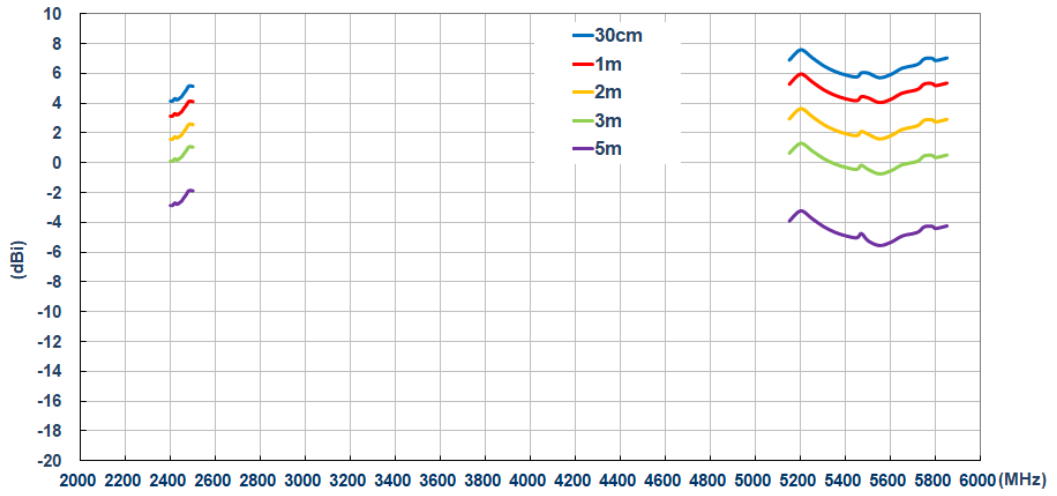


VII. Applications Note:

The antenna performance with different cable lengths is shown below.



Peak Gain (dBi)



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