Antenna Part Specification

Model No：RZ04-0516
Antenna material ：SRD Antenna
Antenna type ：FPC Antenna
Version：V4.0
Date：2024.06.14
Manufacturer： Razer Inc.
Address ：9 Pasteur, Suite 100, Irvine, CA92618, USA

Contents

I : The report of passive data

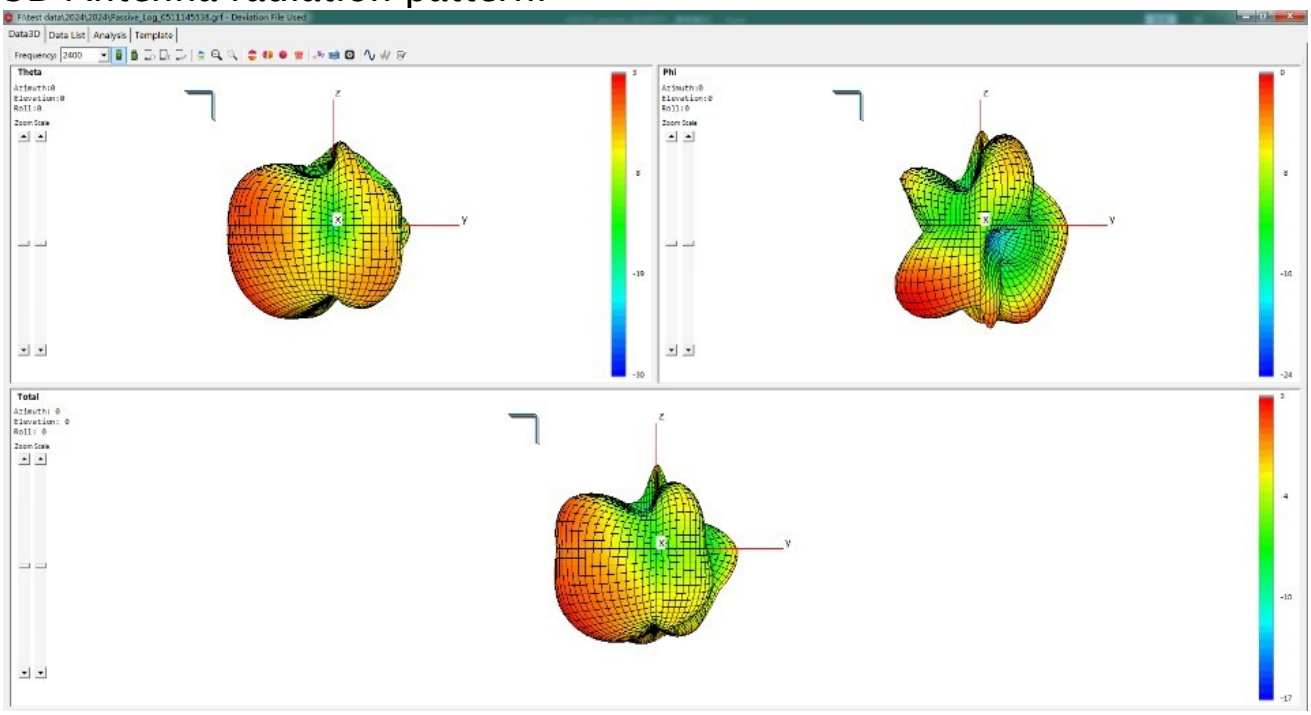
Angilent E5071C

VSWR(S11) parameter :

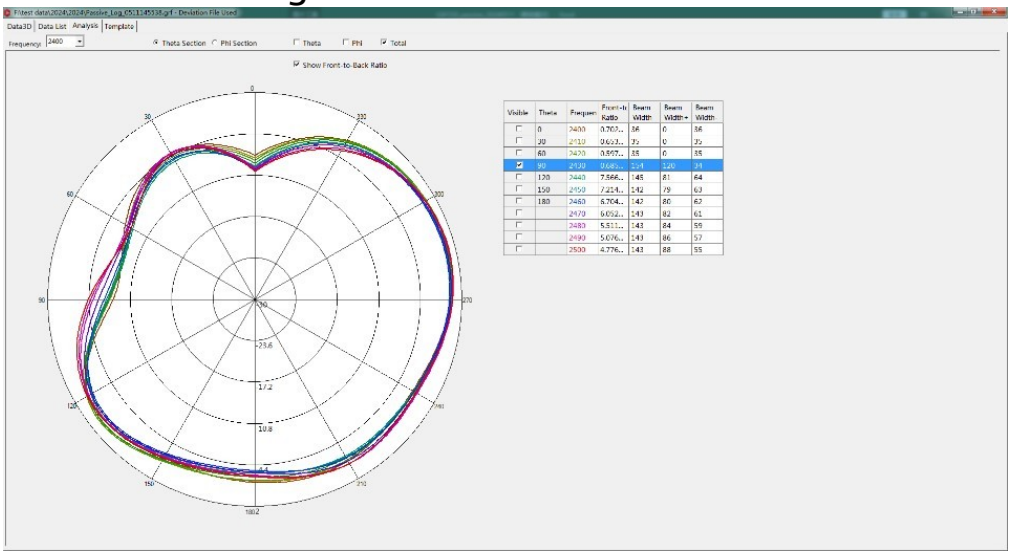
Efficiency：

free space			
Frequency（MHz）	Gain (dBi)	Efficiency (dB)	Efficiency
2400	2.6	-2.5	56.5
2410	2.5	-2.6	54.8
2420	2.4	-2.8	52.9
2430	2.4	-2.7	53.9
2440	2.4	-2.8	52.6
2450	2.5	-2.6	55.5
2460	2.7	-2.4	57.8
2470	2.6	-2.5	55.8
2480	2.5	-2.6	55.2
Average value	2.5	-2.6	55.0

3D Antenna radiation pattern:

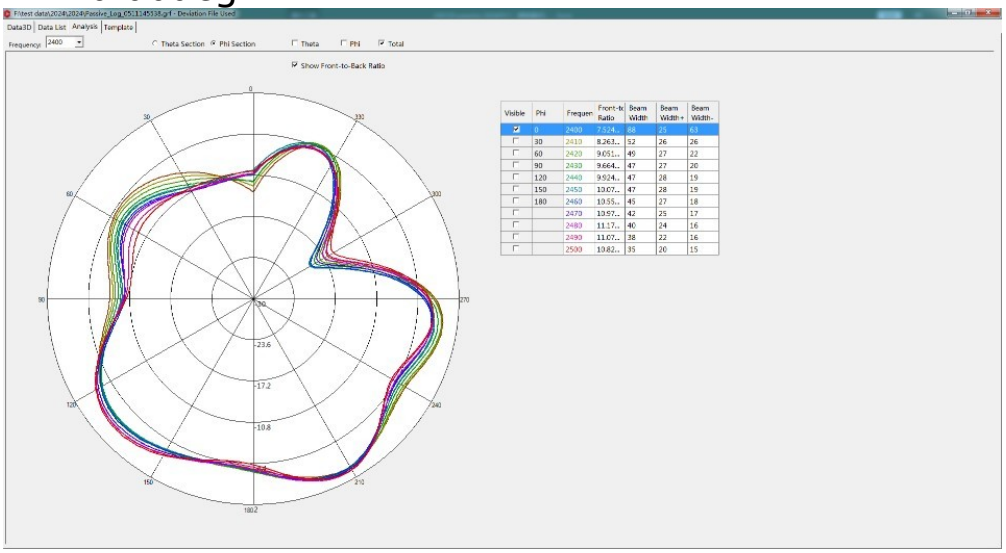


Antenna radiation pattern:
Theta=90.00deg



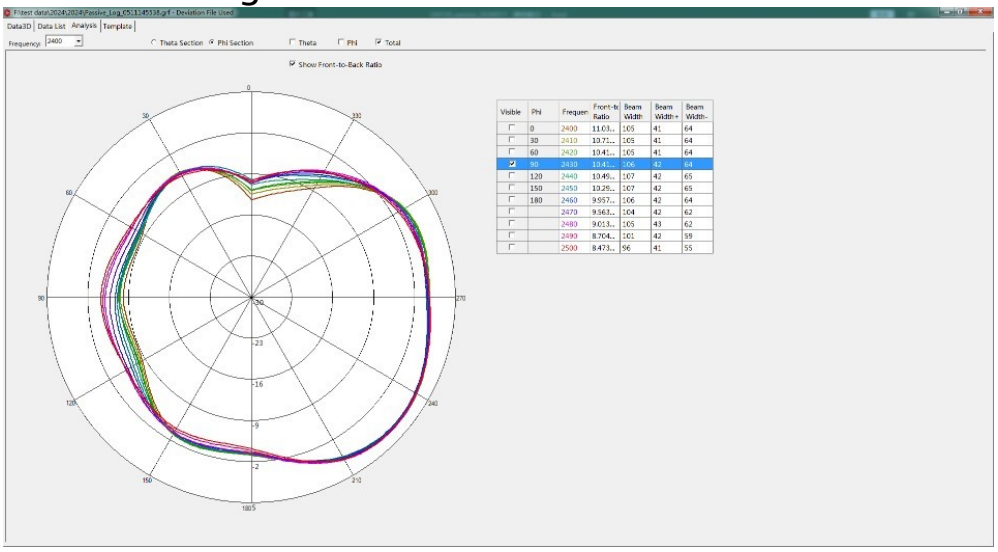
Visible	Theta	Frequen	Front-to Ratio	Beam Width	Beam Width +	Beam Width
☐	0	2400	8.767...	56	0	56
☐	30	2410	9.623...	75	0	75
☐	60	2420	8.867...	88	0	88
☑	90	2430	9.648...	134	126	8
☐	120	2440	7.566...	145	81	64
☐	150	2450	7.214...	142	79	63
☐	180	2460	6.704...	142	80	62
☐		2470	6.052...	143	82	61
☐		2480	5.511...	143	84	59
☐		2490	5.076...	143	86	57
☐		2500	4.776...	143	88	55

Phi=0.00deg



Visible	Phi	Frequen	Front-to Ratio	Beam Width	Beam Width +	Beam Width-
☑	0	2400	7.524...	60	26	34
☐	30	2410	8.263...	52	26	26
☐	60	2420	9.051...	49	27	22
☐	90	2430	9.664...	47	27	20
☐	120	2440	9.924...	47	28	19
☐	150	2450	10.07...	47	28	19
☐	180	2460	10.55...	45	27	18
☐		2470	10.57...	42	25	17
☐		2480	11.17...	40	24	16
☐		2490	11.07...	38	22	16
☐		2500	10.82...	35	20	15

Phi=90.00deg



Visible	Phi	Frequen	Front-to Ratio	Beam Width	Beam Width +	Beam Width-
☐	0	2400	11.03...	105	41	64
☐	30	2410	10.72...	105	41	64
☐	60	2420	10.41...	105	41	64
☑	90	2430	10.41...	106	42	64
☐	120	2440	10.49...	107	42	65
☐	150	2450	10.26...	107	42	65
☐	180	2460	9.957...	106	42	64
☐		2470	9.563...	104	42	62
☐		2480	9.013...	105	43	62
☐		2490	8.704...	101	42	59
☐		2500	8.473...	96	41	55

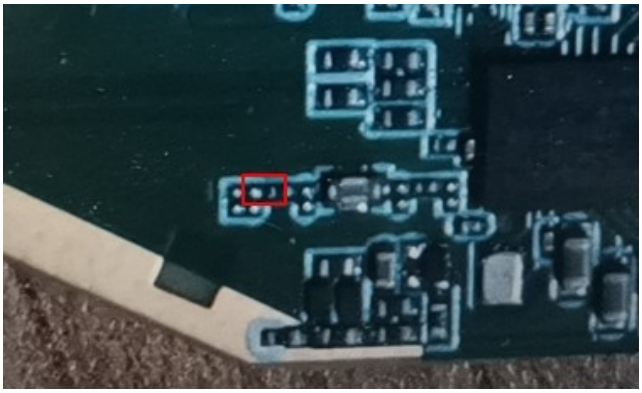
II：3D Active test report of antenna

2.4G	Channel	TRP（dBm）	TIS（dBm）
free space	CH 0	7.8	-92.5
	CH 39	7.8	-93.2
	CH 78	7.4	-92.3

2.4G	Channel	TRP（dBm）	TIS（dBm）
headform	CH 0	5.9	-91.4
	CH 39	6.0	-91.5
	CH 78	5.6	-90.8

OTA Standard Chambe

III：Matching circuit



Antenna matching string 0 Ω

IV : Structure file