

Antenna Spec

Model : VCR24TR13_1

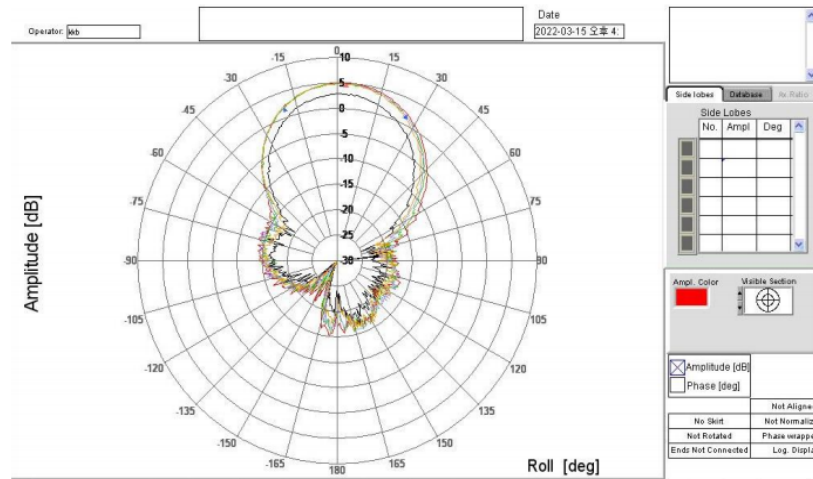
VC Inc.

23, Teheran-ro 108-gil, Gangnam-gu, Seoul, Republic of Korea

RADAR Module Standard and test result

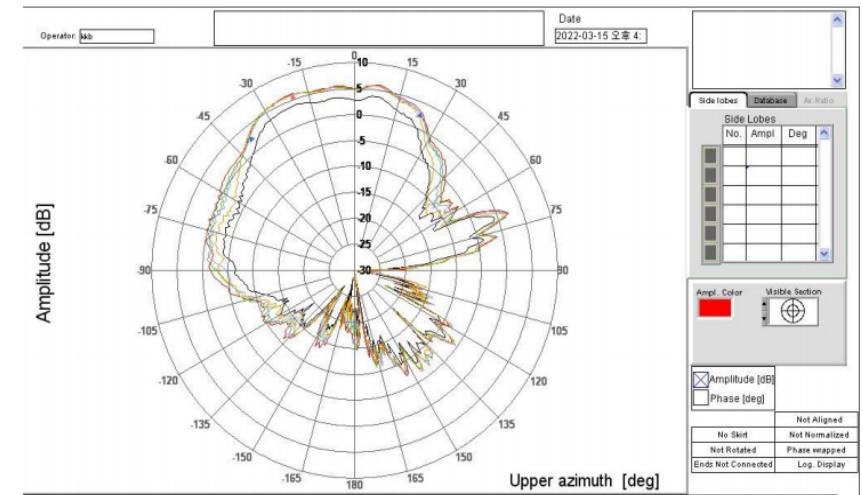
Category	Subcategory	Unit	Standard	Result	Note
Common	Current consumption	mA	< 410	350	
	Antenna gain	dBi	> 5	8.05	
	Antenna beam angle	°(Degree)	> 40	45	
TX	Transmit power	dBm	> 5	8	
	Power control	dB	9dB	8.23	
	Phase Noise	dBc/Hz	< -75	-81	
	Change channel	EA	10	10	24.075 ~ 24.175GHz(FCC), Channel interval 9.6MHz 1 st channel: 24.08GHz, 10 th channel: 24.1664GHz
	2nd Harmonics Rejection	dBm	<-30	-34	
RX	Receive OP AMP Gain	dB	> 80	90	
	Noise Floor	mV	< 100	10	
Temperature	RX Noise Floor change	mV	< 100	17	
Function	Diagnostic function	-	OK	OK	PLL Lock, Output, Temperature

Radiation Pattern



Frequency[GHz]	Gain Peak[dBi]	Beam Width(deg)	Remark
24.0000	7.05	45.53	
24.0625	6.81	44.61	
24.1250	6.95	44.82	
24.1875	6.22	43.23	
24.2500	6.88	43.24	

H-Pattern



Frequency[GHz]	Gain Peak[dBi]	Beam Width(deg)	Remark
24.0000	7.11	62.14	
24.0625	7.94	61.59	
24.1250	8.05	61.14	
24.1875	6.02	60.27	
24.2500	7.92	61.61	

E-Pattern