

Antenna Specifications

At Wavelink, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Wavelink Partners:

Skyworth **NARI**

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 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

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Catalogue

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1 Product Description

This wavelink antenna covers 433MHz.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	433 MHz
Input Impedance	50 Ω

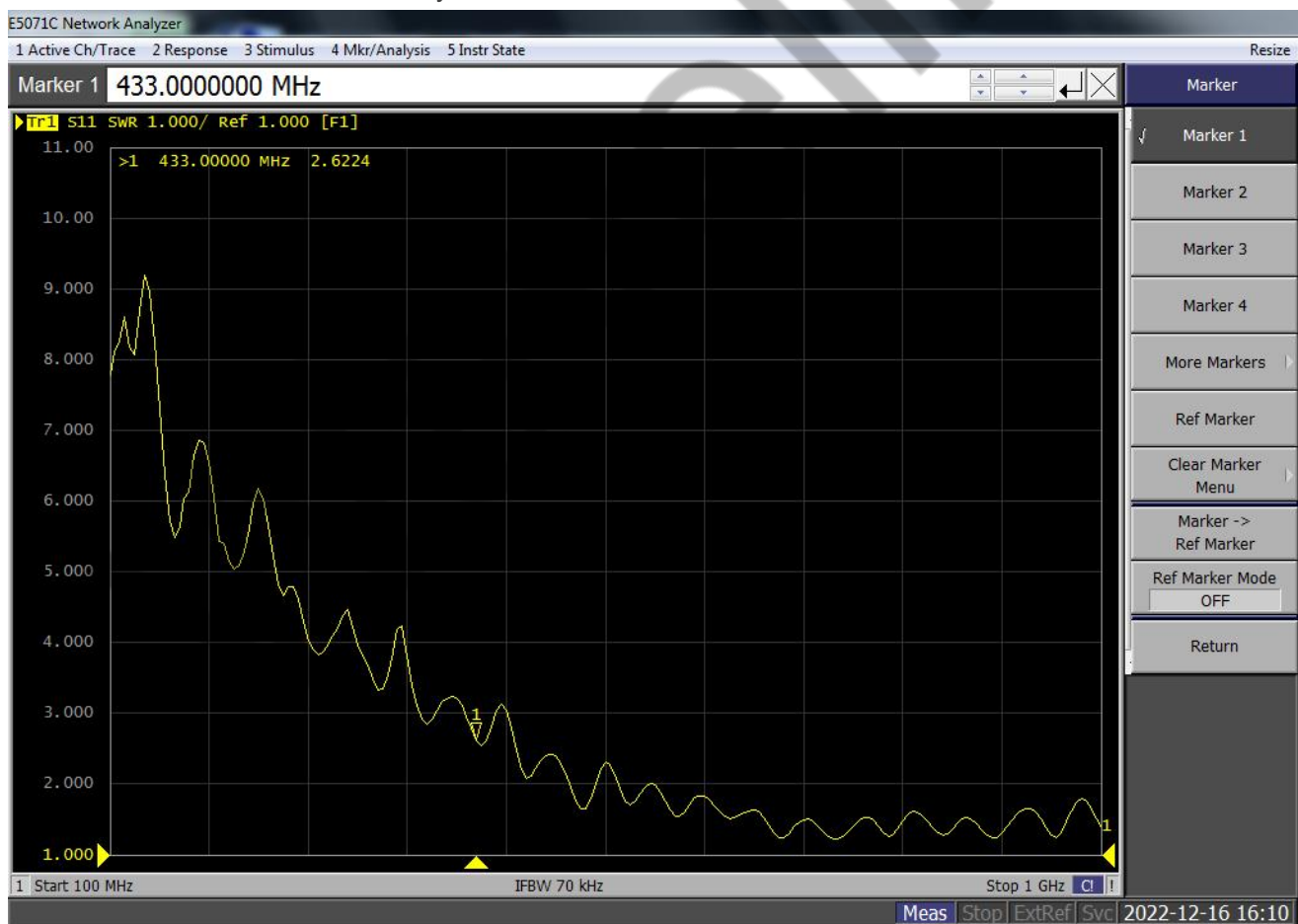
VSWR	≤ 3
Gain	≤ 1 dBi
Polarization Type	Linear

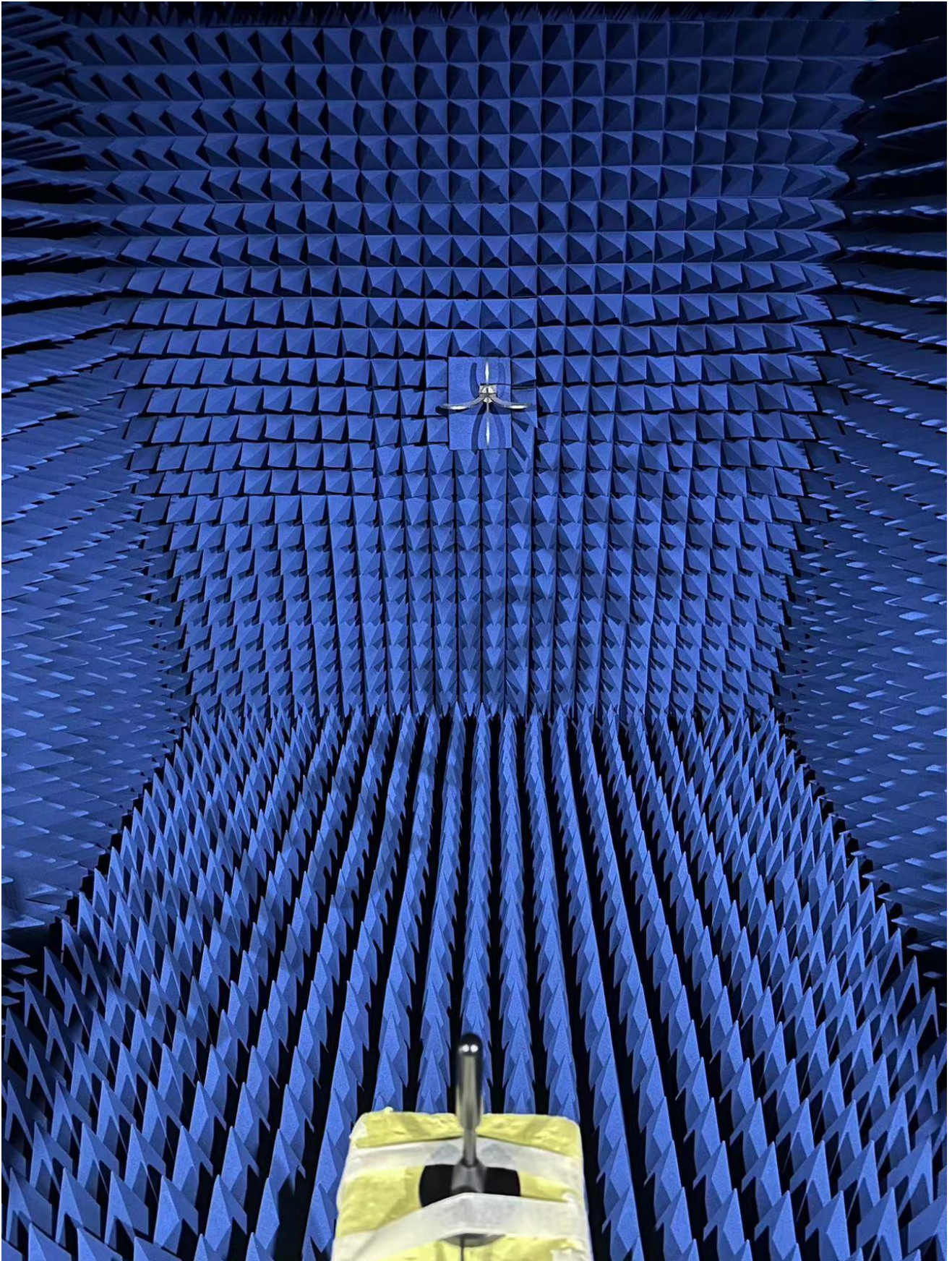
Mechanical Specifications

Antenna Size	130mm × 62mm
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

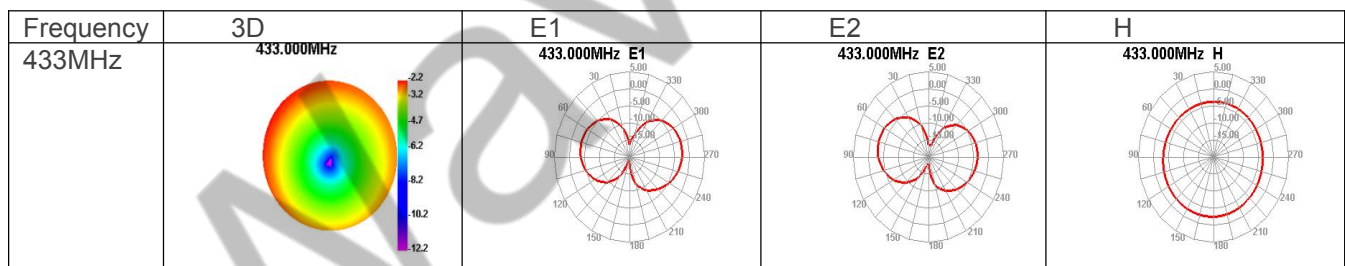
4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

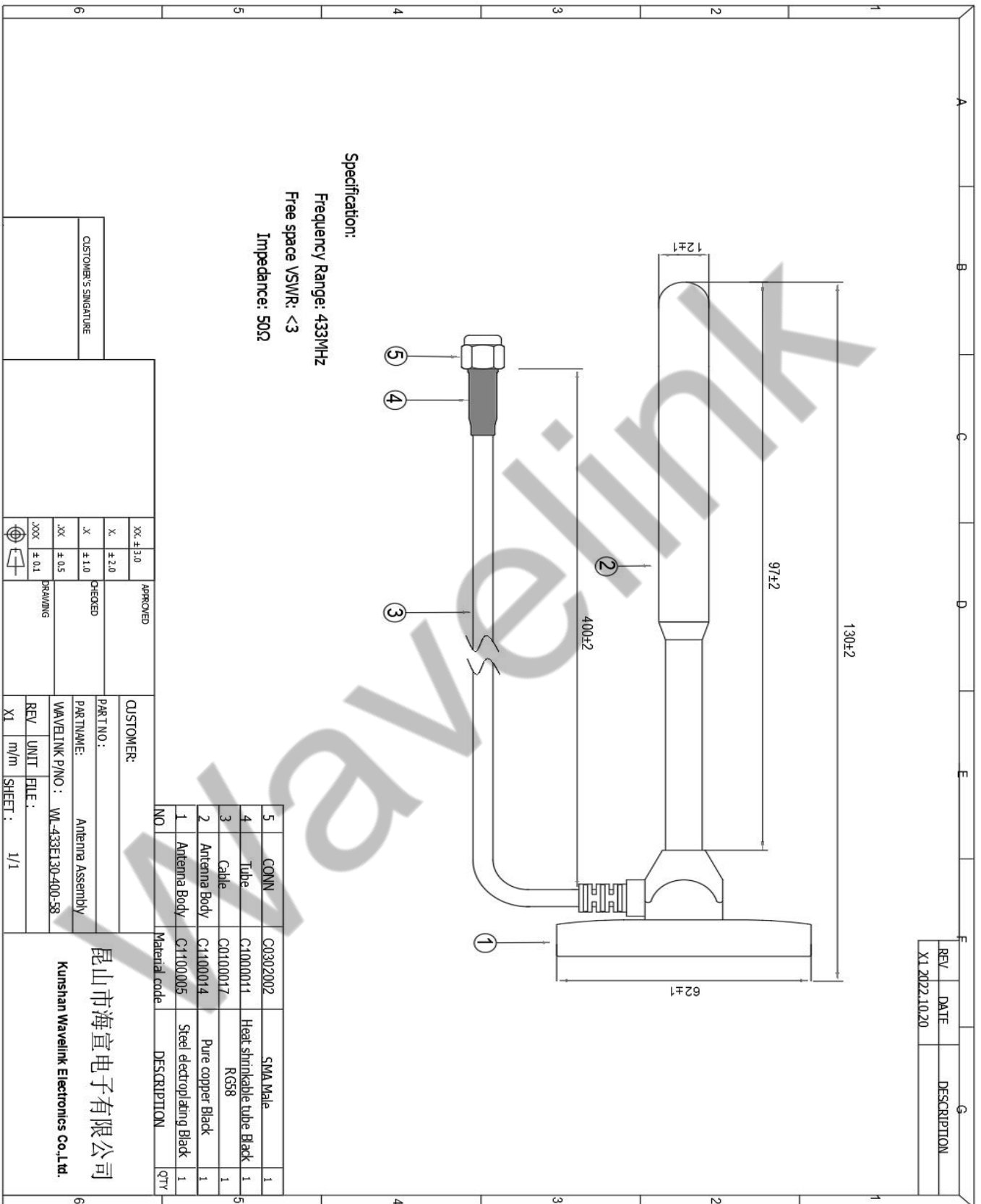




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
420	10.57	-9.76	-6.27	-8.42	-6.27	-22.85	3.49	60	36.58	38.43
421	11.46	-9.41	-5.89	-8.04	-5.89	-22.63	3.52	60	36.53	38.35
422	12.5	-9.03	-5.5	-7.65	-5.5	-21.53	3.53	75	36.49	38.28
423	13.75	-8.62	-5.13	-7.28	-5.13	-23.06	3.49	75	36.44	38.2
424	15.19	-8.19	-4.74	-6.89	-4.74	-24.85	3.44	75	36.39	38.13
425	16.76	-7.76	-4.31	-6.46	-4.31	-25.58	3.44	60	36.34	38.05
426	18.6	-7.31	-3.88	-6.03	-3.88	-24.68	3.42	60	36.34	38.06
427	20.48	-6.89	-3.52	-5.67	-3.52	-22.94	3.37	60	36.33	38.06
428	22.4	-6.5	-3.19	-5.34	-3.19	-21.65	3.31	60	36.32	38.06
429	24.34	-6.14	-2.91	-5.06	-2.91	-20.35	3.23	60	36.32	38.07
430	26.33	-5.8	-2.66	-4.81	-2.66	-20.73	3.14	75	36.31	38.07
431	27.98	-5.53	-2.49	-4.64	-2.49	-22.33	3.05	75	36.24	37.97
432	29.69	-5.27	-2.34	-4.49	-2.34	-24.2	2.94	75	36.16	37.86
433	31.48	-5.02	-2.19	-4.34	-2.19	-26.18	2.83	75	36.09	37.76
434	33.31	-4.77	-2.06	-4.21	-2.06	-28.79	2.71	75	36.02	37.66
435	35.1	-4.55	-1.95	-4.1	-1.95	-29.59	2.59	75	35.94	37.55
436	36.35	-4.4	-1.92	-4.07	-1.92	-27.64	2.48	75	35.82	37.4
437	37.31	-4.28	-1.91	-4.06	-1.91	-25.08	2.37	60	35.7	37.26
438	37.89	-4.21	-1.91	-4.06	-1.91	-22.97	2.3	60	35.58	37.11
439	38.03	-4.2	-1.97	-4.12	-1.97	-21.55	2.23	75	35.45	36.96
440	37.77	-4.23	-2.05	-4.2	-2.05	-20.27	2.17	75	35.33	36.81



5 Product Size



6 Others

DESCRIPTION	SPECIFICATION
Temperature /Humidity cycling	1, The device under test is kept for 30 mins in an environment with a temperature of -40 °C. 2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature. 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem;No adhesion problem of glue).
Temperature Shock	1, The device under test at -40 °C ⇌125 °C by 100 cycles, Dwell of 30 mins, transition time between Dwell 30 secs (~ 61 mins / cycle) and each item should be measured after exposing them in normal temperature and humidity for 24 h. 2, Parts should meet RF spec before and after test. 3, No cosmetic problem(No soldering problem; No adhesion problem of glue).
High Temperature	1, Temperature:125°C, time:1008 hours 2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem; No adhesion problem of glue).
Salt mist test	1, The device under test is exposed to a spray of a 5% (by volume) resolution of NACL in water for 2 hours. Thereafter the device under test is left for 1 week in room temperature at a relative humidity of 95%. The cycle is repeated until a total of 2 cycles have been completed. Here after the conditions are stabilized at room temperature. 2, Parts should meet RF spec before and after test. 3, No visible corrosion. Discoloration accept.