

Test Result Report

Date 30 July 2025

Test Address
Laboratory

Unit 2 and 3, G/F, Block A, Po Lung Centre, 11 Wang Chiu Road,
Kowloon Bay, Kowloon, Hong Kong

Name of
corporation

SGS Hong Kong Ltd.

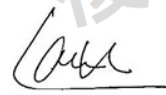
Name of President

Laurence Kwan

Position

EEC Lab Manager

Name of
responsible



Signature

Type of specified radio equipment	Radio equipment according to Certification Ordinance Article 2 Section 1 No. 19
Model name	MH-80N
Manufacturer	Hunan Rhythm Biotechnology Co., Ltd.
Serial Number	A1
Number of test sample	1
Class of emissions, Assigned frequency and Antenna power	F1D 2402-2480 MHz (2402, 2404, 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2420, 2422, 2424, 2426, 2428, 2430, 2432, 2434, 2436, 2438, 2440, 2442, 2444, 2446, 2448, 2450, 2452, 2454, 2456, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472, 2474, 2476, 2478, 2480MHz 40ch) 0.002W
Name of test person	Chan Chun Lok
Qualifications or conditions of test person	4 of Appendix 4 of Radio Act
Test Date Temperature/Humidity	See attached test report
Measuring Instruments	See attached test report
Test Method	Notification No.88 of MIC, Appendix 43
Test Result	Pass / ~~Fail~~ See attached test report
Remarks	

Test result and instruments about Type certification

Bluetooth Low Energy

1. General

Model name	MH-80N	Date	30 July 2025
Serial number	A1	Place	SGS Hong Kong Limit
Class of emissions, Assigned frequency and Antenna power	F1D 2402-2480 MHz (2402, 2404, 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2420, 2422, 2424, 2426, 2428, 2430, 2432, 2434, 2436, 2438, 2440, 2442, 2444, 2446, 2448, 2450, 2452, 2454, 2456, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472, 2474, 2476, 2478, 2480MHz 40ch) 0.002W	Remarks	

2. Measuring Instruments

Equipment type	Model number	Serial number	Manufacturer	Calibrated Date	Calibration Authority		Remarks
FSV40 SIGNAL ANALYZER 40GH	FSV40	101418	ROHDE & SCHWARZ	2024/10/10	CEPREI	(c)	

3. Test Result

Condition	Test Items		Unit	Normal Voltage + 10% (3.30V)			Normal Voltage (3.00 V)			Normal Voltage - 10% (2.70 V)			Judgment	Limit	Remarks	
				2402	2440	2480	2402	2440	2480	2402	2440	2480				
Normal (25.3 °C, 52.3%)	Frequency		MHz	2402.014	2440.018	2480.014	2402.018	2440.014	2480.019	2402.016	2440.016	2480.016	Pass	50ppm		
			ppm	5.828	7.377	5.645	7.494	5.738	7.661	6.661	6.557	6.452				
	Occupied Bandwidth		MHz	1.028	1.067	1.052	1.028	1.052	1.052	1.040	1.043	1.046	Pass	26MHz		
	Spurious Emissions	30MHz-2387MHz	dBm	-35.20	-35.44	-34.93	-35.58	-34.90	-34.68	-35.51	-33.72	-33.88	Pass	-26dBm		
			uW	0.30	0.29	0.32	0.28	0.32	0.34	0.28	0.42	0.41		2.5uW		
			MHz	892.90	1797.99	1080.04	280.08	416.31	1115.40	2046.41	927.31	1083.81				
		2387MHz-2400MHz	dBm	-16.44	-35.55	-35.48	-17.71	-35.66	-34.90	-19.43	-34.39	-35.81	Pass	-16dBm		
			uW	22.70	0.28	0.28	16.94	0.27	0.32	11.40	0.36	0.26		25uW		
			MHz	2399.82	2398.78	2390.32	2399.53	2393.26	2398.96	2399.03	2391.78	2395.50				
		2483.5MHz-2496.5MHz	dBm	-35.74	-35.89	-22.68	-34.75	-35.53	-22.50	-35.39	-35.11	-23.00	Pass	-16dBm		
			uW	0.27	0.26	5.40	0.33	0.28	5.62	0.29	0.31	5.01		25uW		
			MHz	2487.55	2487.75	2483.61	2487.84	2493.90	2483.54	2491.01	2487.37	2483.96				
		2496.5MHz-12.5GHz	dBm	-30.22	-30.02	-30.76	-30.41	-30.25	-30.31	-30.93	-30.09	-30.26	Pass	-26dBm		
			uW	0.95	1.00	0.84	0.91	0.94	0.93	0.81	0.98	0.94		2.5uW		
			MHz	6931.05	6869.03	6859.03	6999.08	6730.98	5972.72	6821.01	6917.05	6849.02				
	Antenna Power		W	0.001783	0.001275	0.001937	0.001797	0.001277	0.001959	0.001790	0.001275	0.001947	Pass	0.01W		
			%	-5.845	-31.270	1.870	-5.156	-31.135	2.935	-5.515	-31.275	2.360		+20 ~ -80%		
	Secondary Radiated Emissions		30MHz-1GHz	dBm	-62.24	-62.93	-62.12	-61.82	-61.29	-62.20	-61.73	-62.52	-62.49	Pass	-54dBm	
				nW	0.60	0.51	0.61	0.66	0.74	0.60	0.67	0.56	0.56		4nW	
				MHz	128.07	128.46	223.90	223.90	224.49	128.07	223.90	142.04	48.14			
			1GHz-12.5GHz	dBm	-60.43	-60.02	-60.05	-60.43	-59.60	-54.60	-60.63	-59.92	-59.98	Pass	-47dBm	
				nW	0.91	1.00	0.99	0.91	1.10	3.47	0.86	1.02	1.00		20nW	
				MHz	6895.75	2439.25	6798.75	6851.75	2439.25	5783.25	6931.25	2439.25	6964.75			
	Carrier sense Function*3			-	N/A	-	-	N/A	-	-	N/A	-	-			
	Frequency changing function*3		sec	-	N/A	-	-	N/A	-	-	N/A	-	-	4sec		
	Interference Prevention Function			-	Pass	-	-	Pass	-	-	Pass	-	Pass			

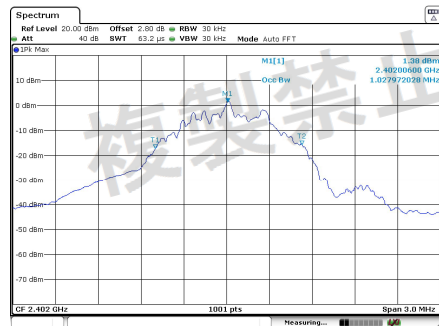
Note:

*1 If there is a regulator inside product, voltage fluctuation can be omitted.
*2 If antenna gain is low, antenna power can compensate. (EIRP must be 12.14dBm or less)
*3 If above*2 is applied, Carrier sense function is needed except the case that frequency changes within 4 sec.

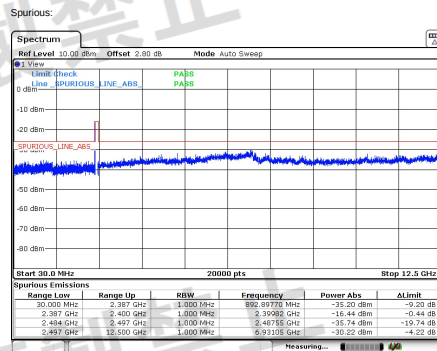
3.3 Normal Voltage + 10% (3.30 V)

2402 MHz

Occupied Bandwidth:



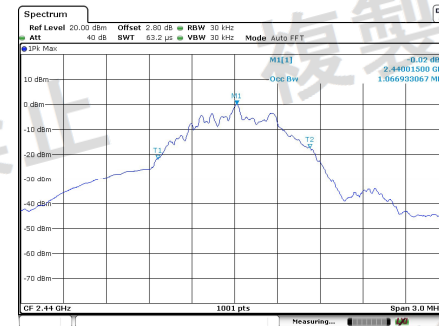
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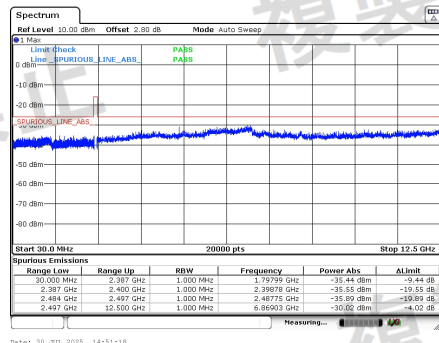
2440 MHz

Occupied Bandwidth:



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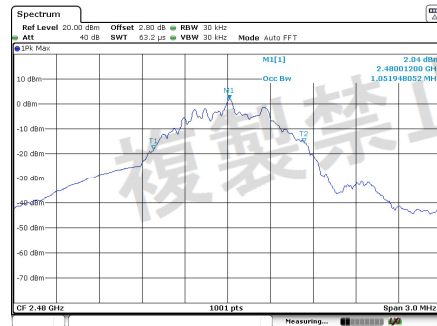
Spurious:



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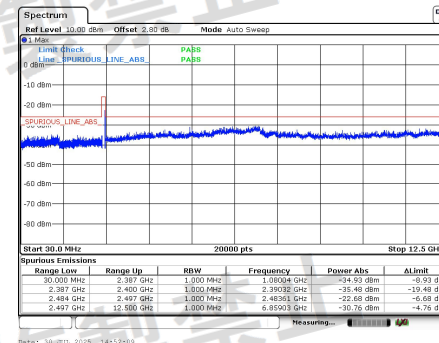
2480 MHz

Occupied Bandwidth:



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Spurious:

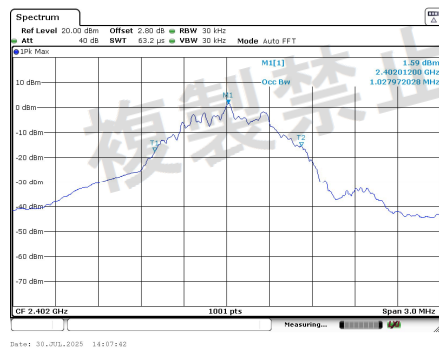


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Normal Voltage (3.00 V)

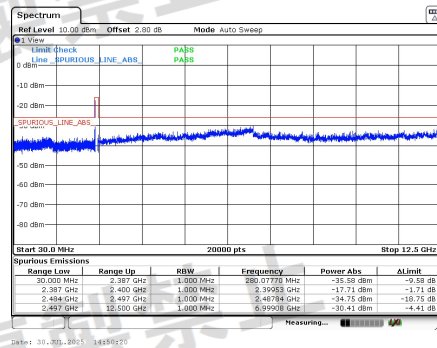
2402 MHz

Occupied Bandwidth:



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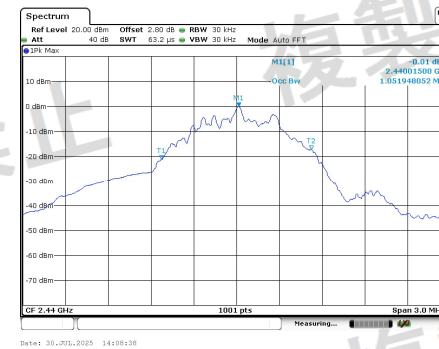
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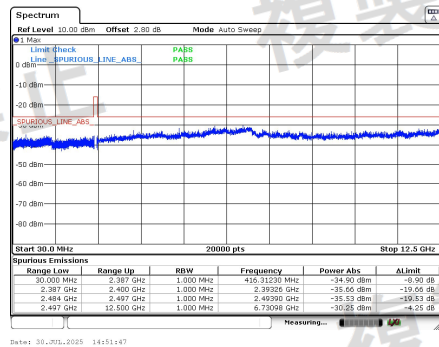
2440 MHz

Occupied Bandwidth:



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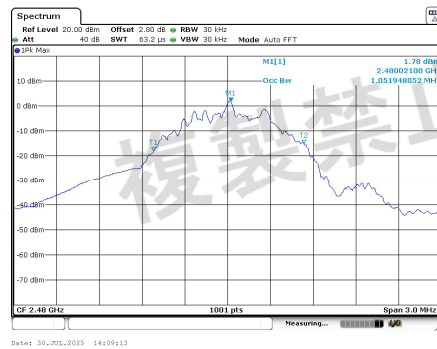
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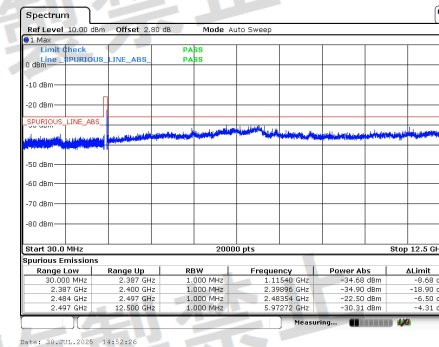
2480 MHz

Occupied Bandwidth:



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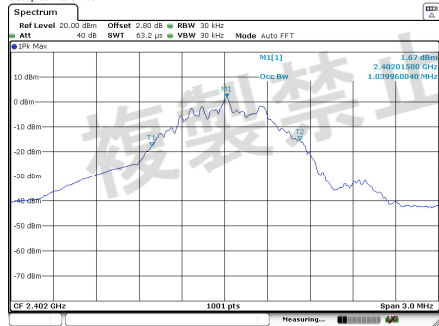


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Normal Voltage - 10% (2.70 V)

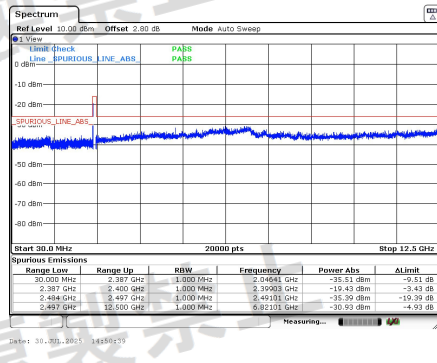
2402 MHz

Occupied Bandwidth:



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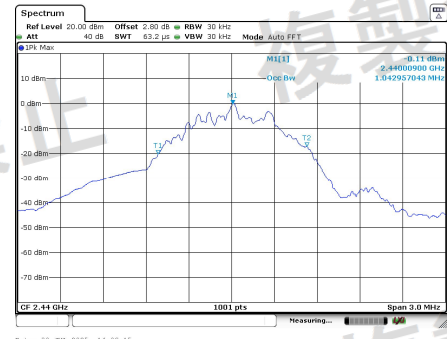
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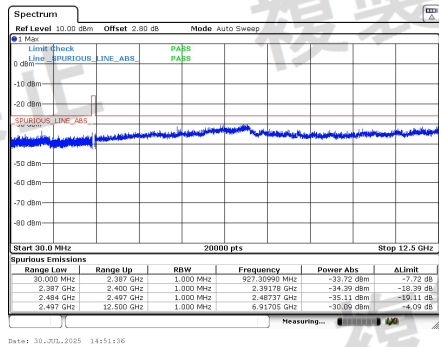
2440 MHz

Occupied Bandwidth:



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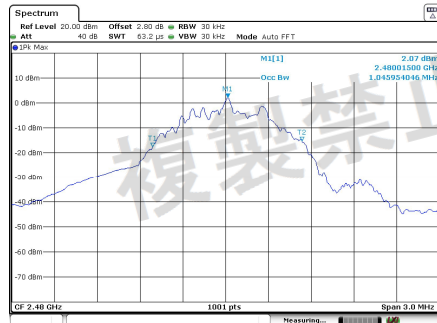
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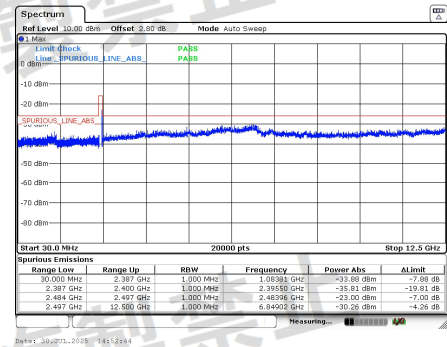
2480 MHz

Occupied Bandwidth:



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Spurious:



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