Figure 43: Time of Occupancy, 2441MHz, 8-DPSK DH1

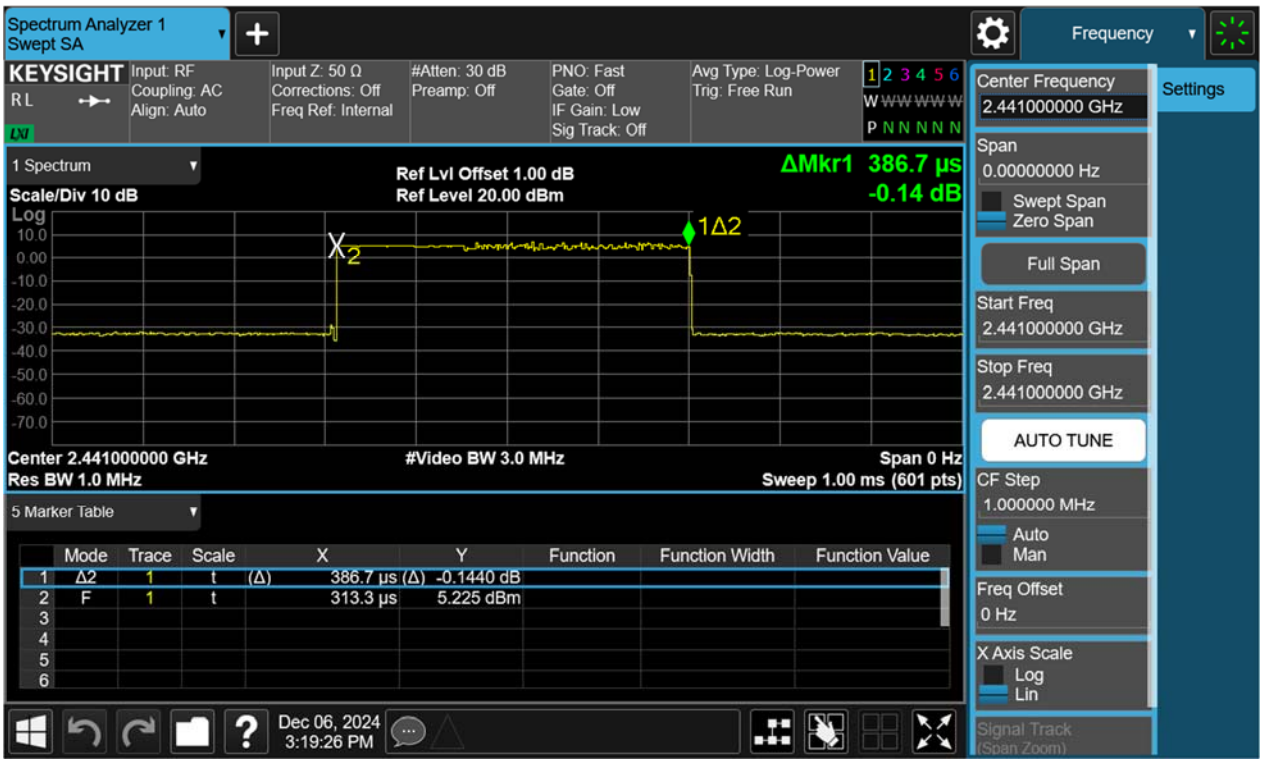


Figure 44: Time of Occupancy, 2441MHz, 8-DPSK DH3

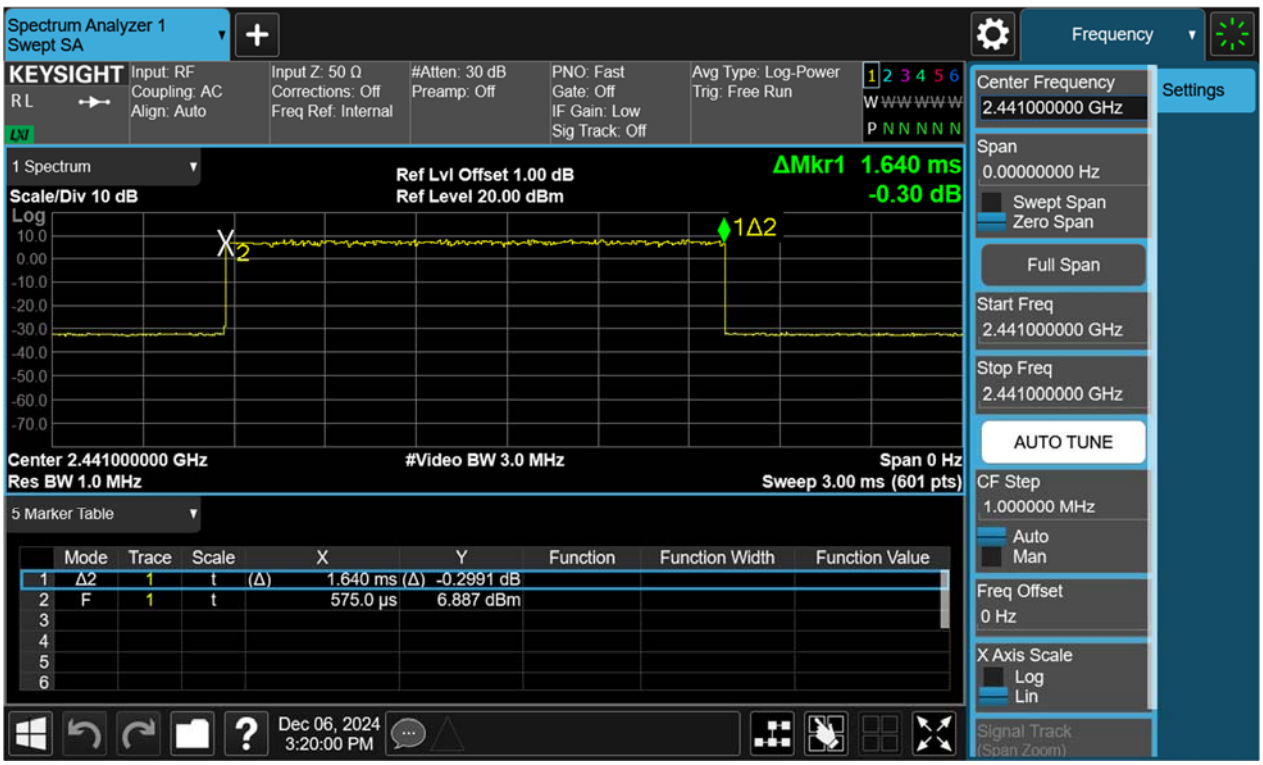
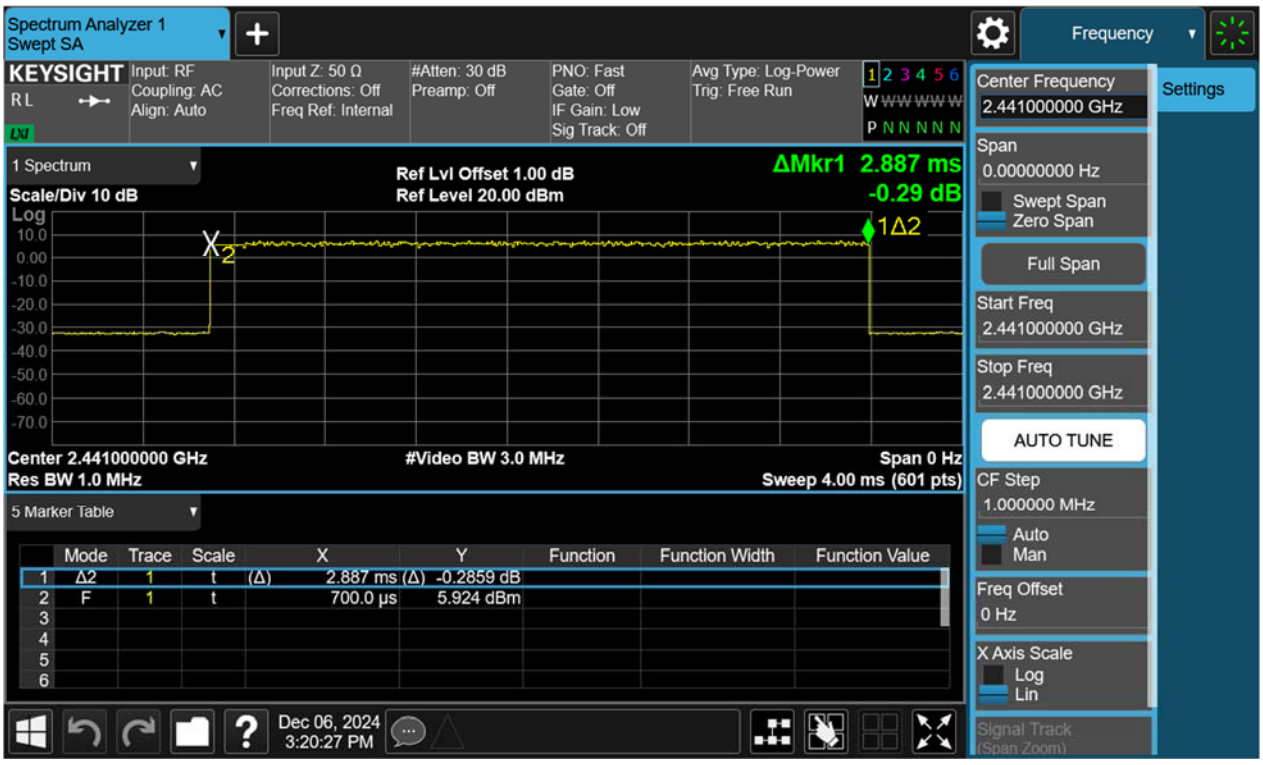


Figure 45: Time of Occupancy, 2441MHz, 8-DPSK DH5



4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT: **PASS**

Test standard	:	FCC Part 15.207(a)
Requirement	:	ANSI C63.10-2013, Clause 6.2
Kind of test site	:	Shielded room

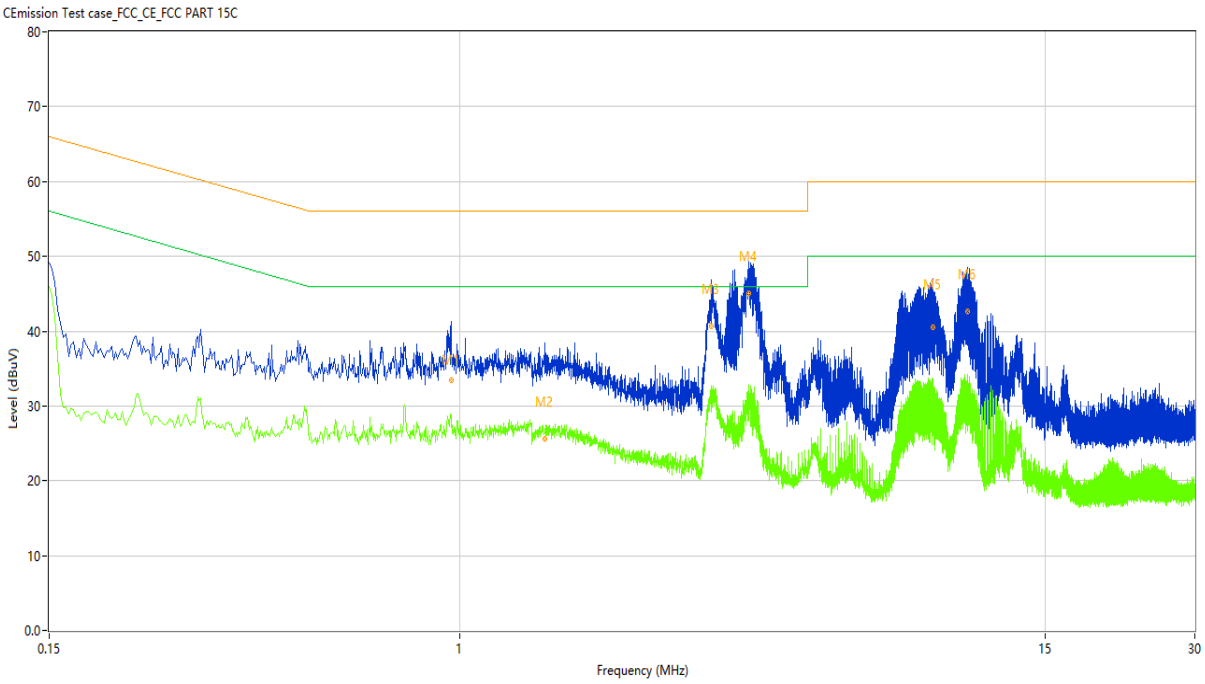
Test setup

Input Voltage	:	which received AC 120V, 60Hz Power
Operation Mode	:	A.1.a
Earthing	:	Connected to GND
Ambient temperature	:	21.6°C
Relative humidity	:	49%

For details refer to following test plot.

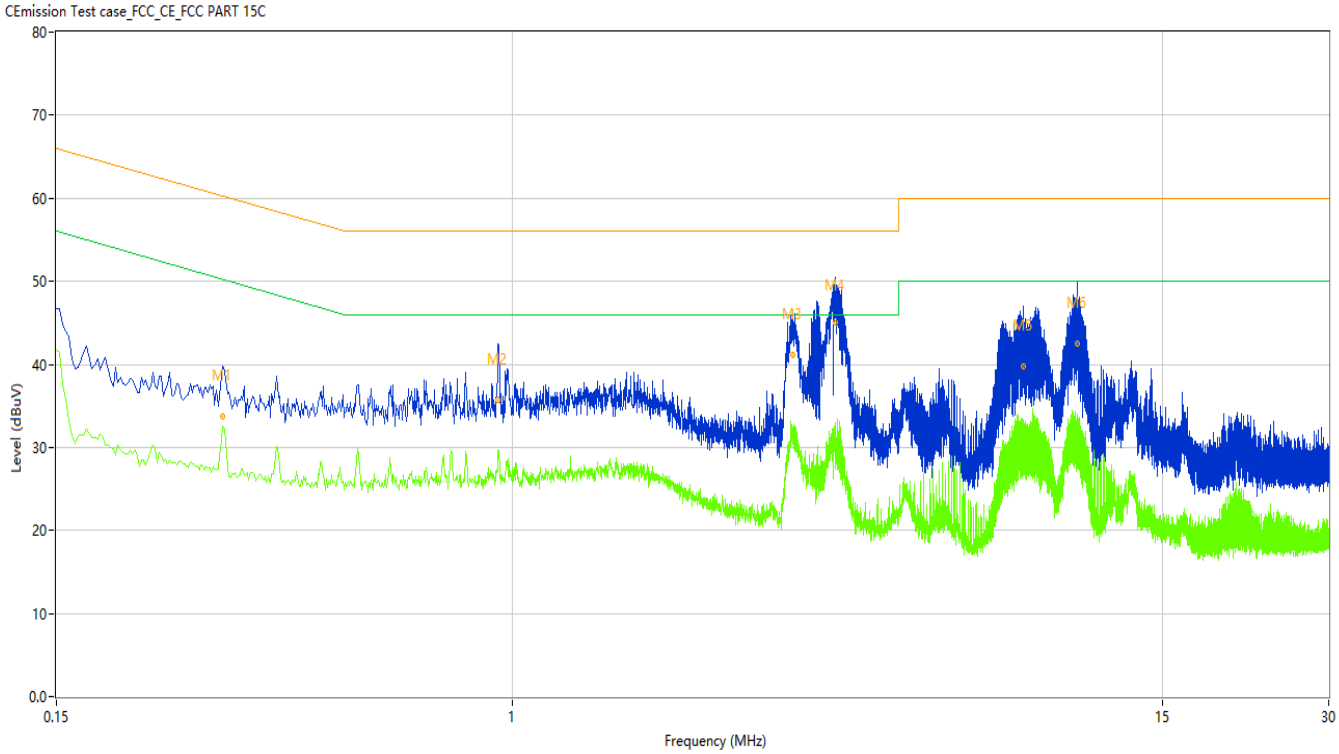
Note：The all configurations were tested respectively, Only the worst mode data of 8DPSK-hopping-DH5 was recorded in the test report.

Figure 46: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.962	39.16	9.94	56.00	16.84	Peak	L	Pass
1*	0.962	33.43	9.94	56.00	22.57	QP	L	Pass
1**	0.962	28.73	9.94	46.00	17.27	AV	L	Pass
2	1.484	32.89	9.89	56.00	23.11	Peak	L	Pass
2*	1.484	25.62	9.89	56.00	30.38	QP	L	Pass
2**	1.484	26.50	9.89	46.00	19.50	AV	L	Pass
3	3.204	48.09	10.09	56.00	7.91	Peak	L	Pass
3*	3.204	40.72	10.09	56.00	15.28	QP	L	Pass
3**	3.204	31.30	10.09	46.00	14.70	AV	L	Pass
4	3.816	50.37	10.07	56.00	5.63	Peak	L	Pass
4*	3.816	45.06	10.07	56.00	10.94	QP	L	Pass
4**	3.816	32.77	10.07	46.00	13.23	AV	L	Pass
5	8.946	47.91	10.25	60.00	12.09	Peak	L	Pass
5*	8.946	40.49	10.25	60.00	19.51	QP	L	Pass
5**	8.946	32.93	10.25	50.00	17.07	AV	L	Pass
6	10.474	50.04	10.28	60.00	9.96	Peak	L	Pass
6*	10.474	42.64	10.28	60.00	17.36	QP	L	Pass
6**	10.474	34.13	10.28	50.00	15.87	AV	L	Pass

Figure 47: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.300	37.83	10.10	60.24	22.41	Peak	N	Pass
1*	0.300	33.78	10.10	60.24	26.46	QP	N	Pass
1**	0.300	32.50	10.10	50.24	17.74	AV	N	Pass
2	0.944	42.56	9.99	56.00	13.44	Peak	N	Pass
2*	0.944	35.63	9.99	56.00	20.37	QP	N	Pass
2**	0.944	29.74	9.99	46.00	16.26	AV	N	Pass
3	3.216	48.21	10.09	56.00	7.79	Peak	N	Pass
3*	3.216	41.07	10.09	56.00	14.93	QP	N	Pass
3**	3.216	32.43	10.09	46.00	13.57	AV	N	Pass
4	3.850	49.75	10.07	56.00	6.25	Peak	N	Pass
4*	3.850	45.04	10.07	56.00	10.96	QP	N	Pass
4**	3.850	31.92	10.07	46.00	14.08	AV	N	Pass
5	8.410	46.68	10.23	60.00	13.32	Peak	N	Pass
5*	8.410	39.78	10.23	60.00	20.22	QP	N	Pass
5**	8.410	30.05	10.23	50.00	19.95	AV	N	Pass
6	10.524	49.93	10.28	60.00	10.07	Peak	N	Pass
6*	10.524	42.50	10.28	60.00	17.50	QP	N	Pass
6**	10.524	34.11	10.28	50.00	15.89	AV	N	Pass

5 Appendixes

5.1 Photographs of the Sample

Front of the sample

Rear of the sample

Left of the sample

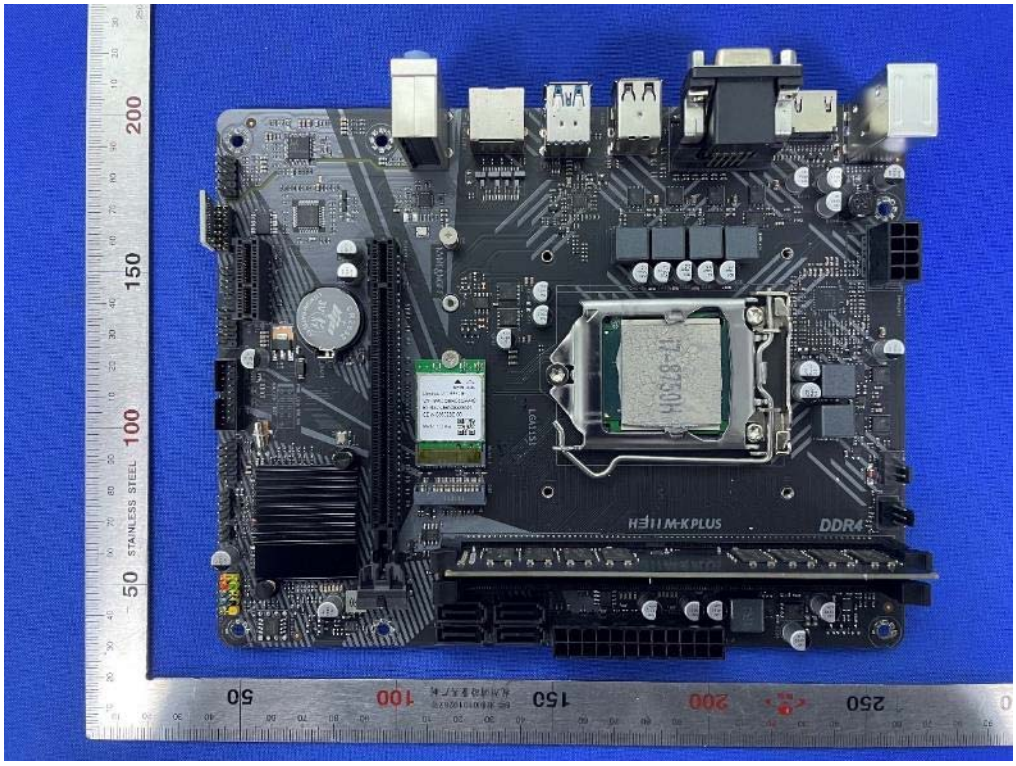
Right of the sample

Top of the sample

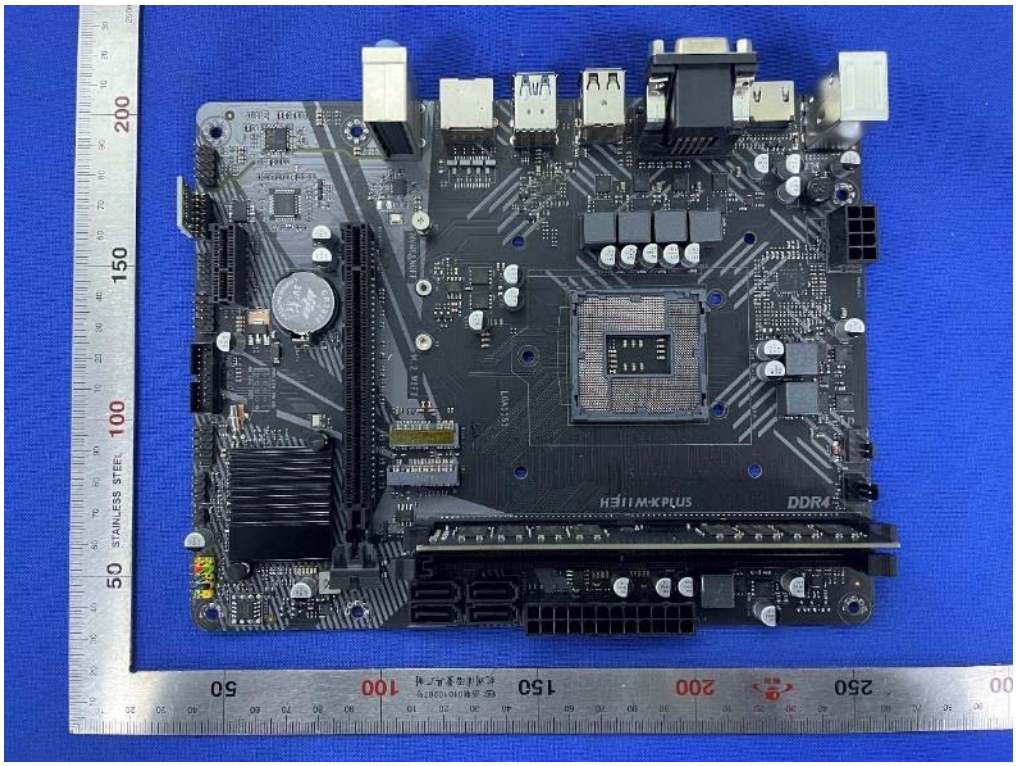
Bottom of the sample

Open-1 of the sample

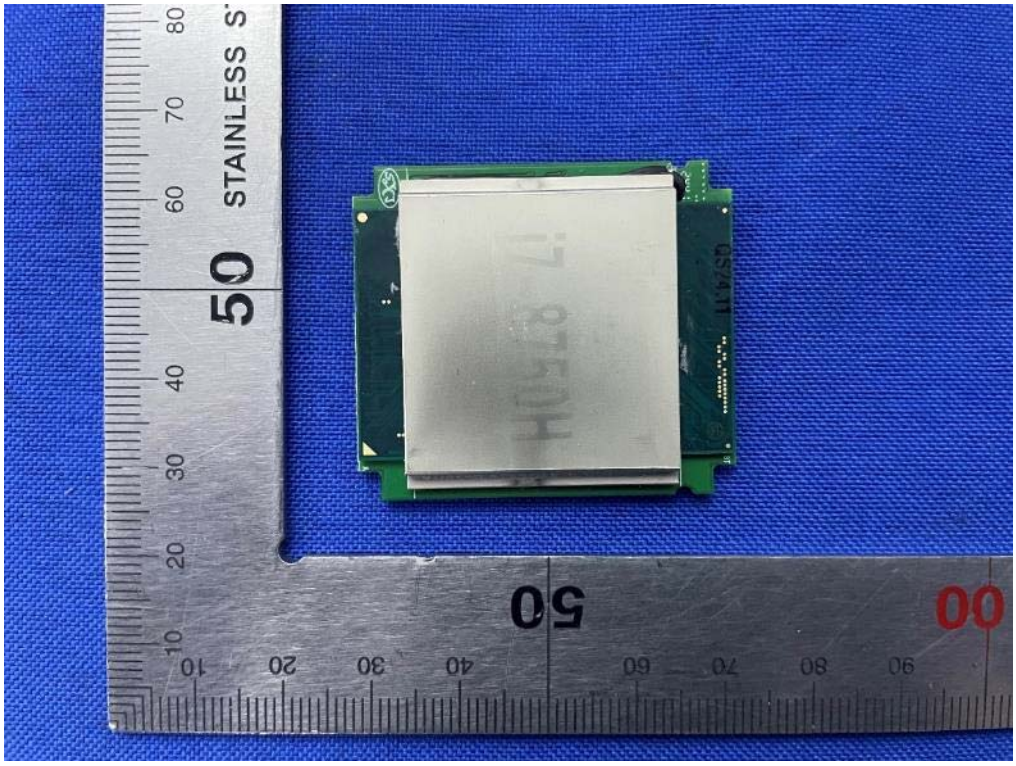
Internal-1 of the sample



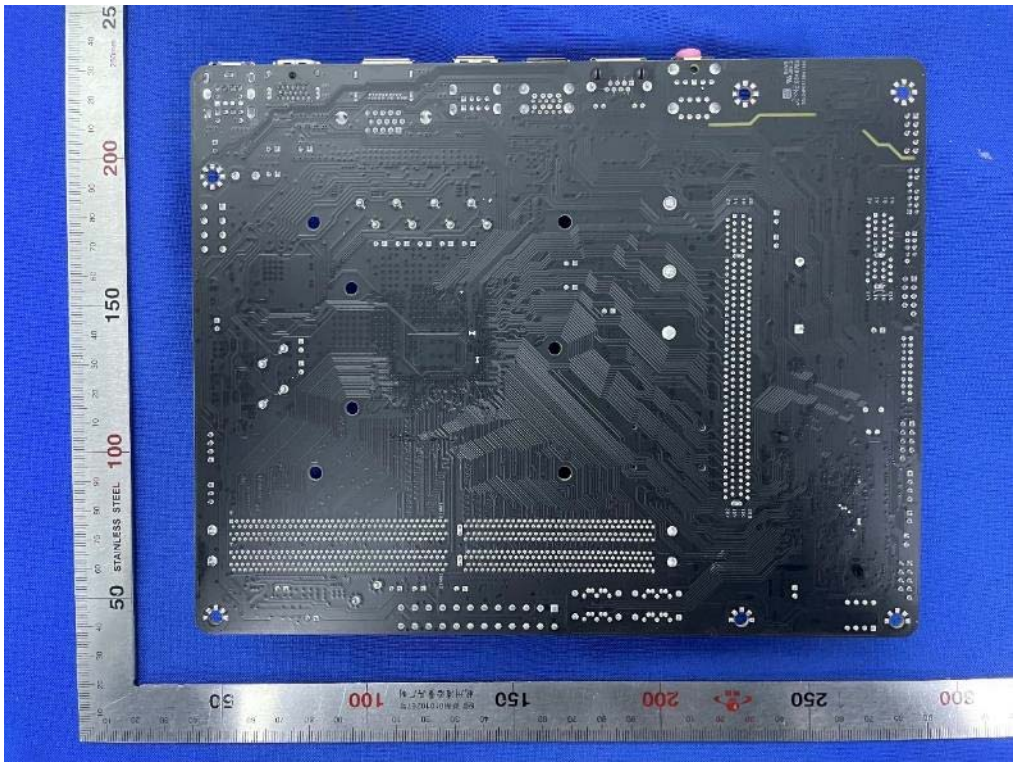
Internal-2 of the sample



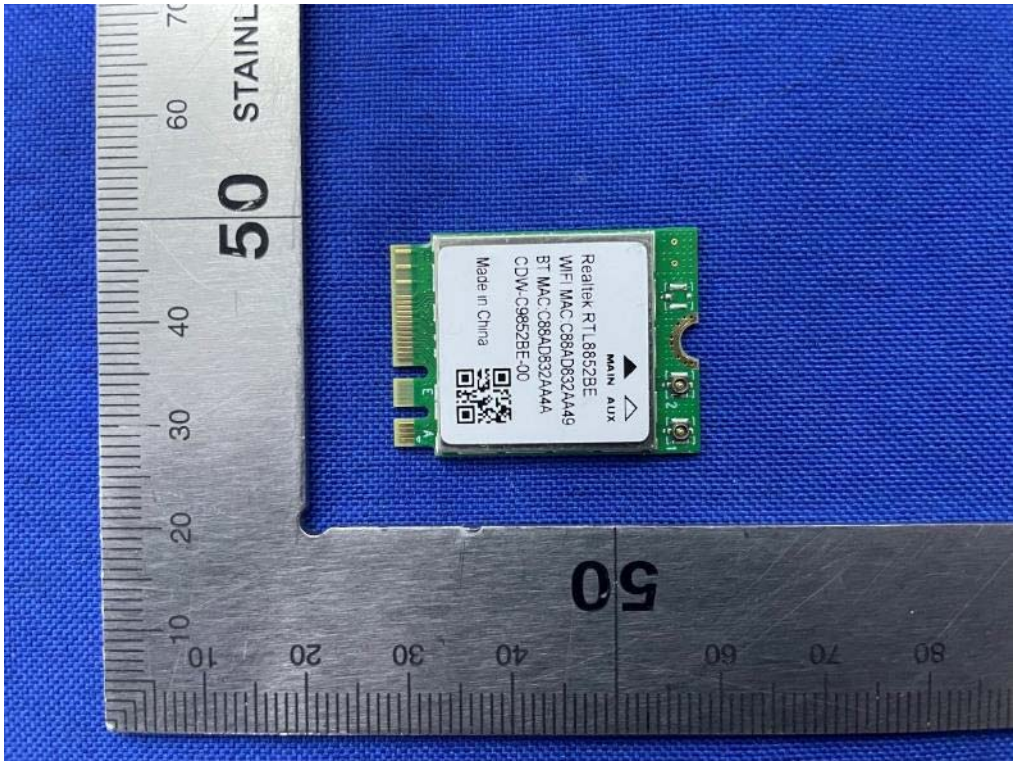
Internal-3 of the sample



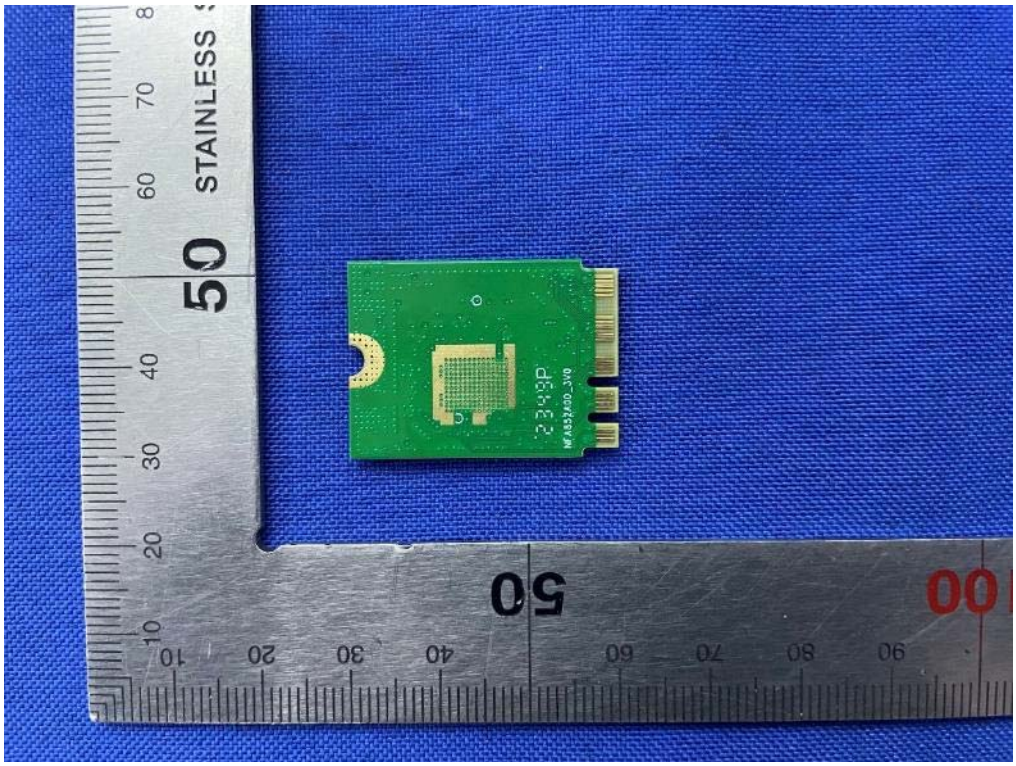
Internal-4 of the sample



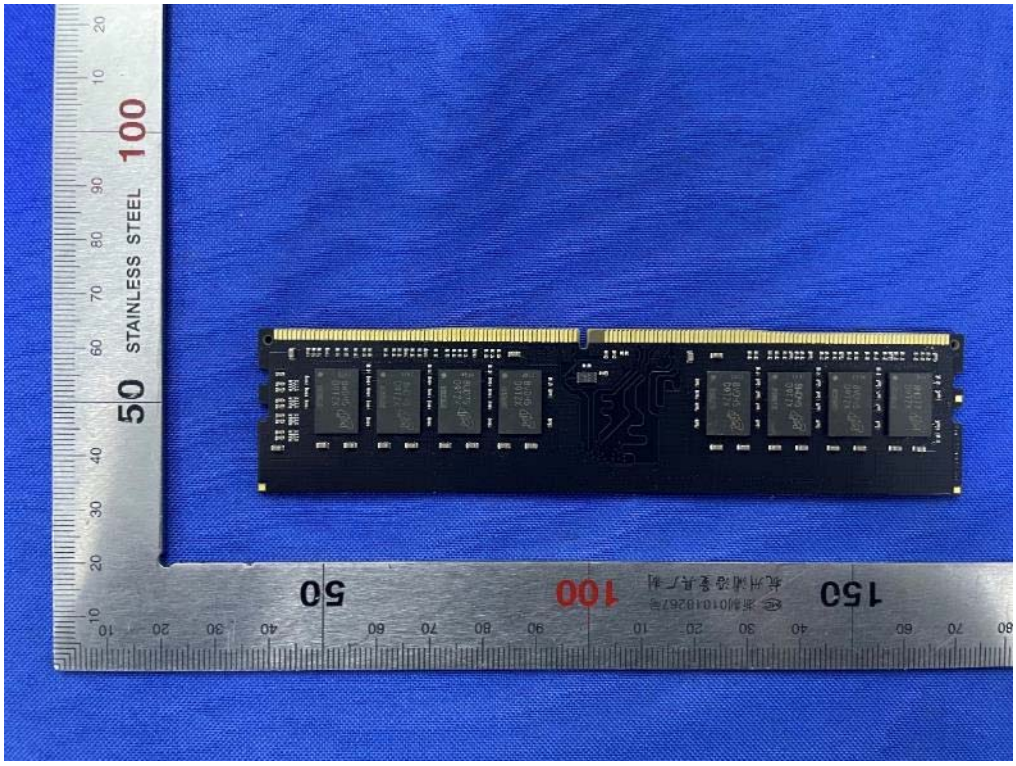
Internal-5 of the sample



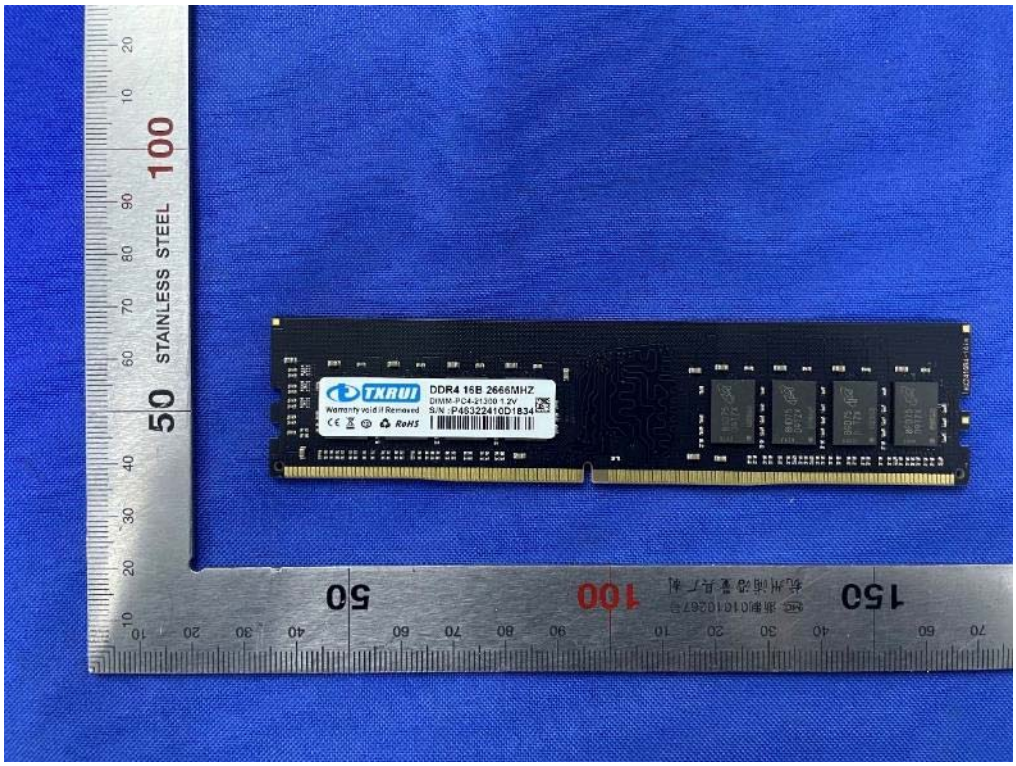
Internal-6 of the sample



Internal-7 of the sample



Internal-8 of the sample

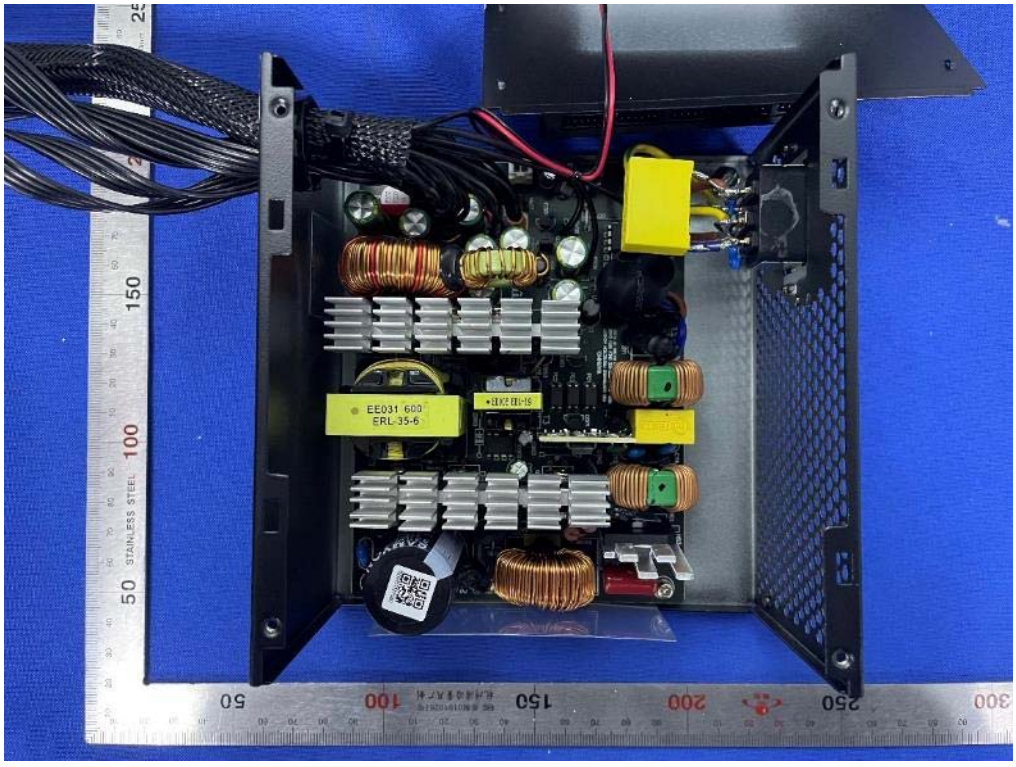


Internal-9 of the sample

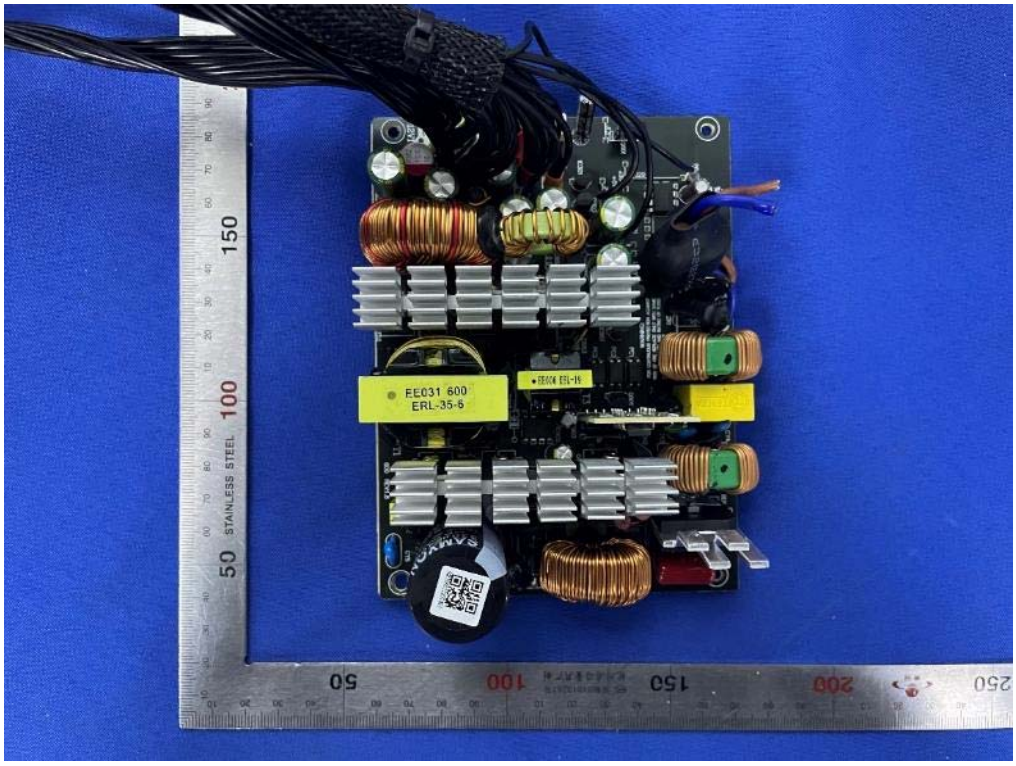
Internal-10 of the sample

Internal-11 of the sample

Internal-12 of the sample

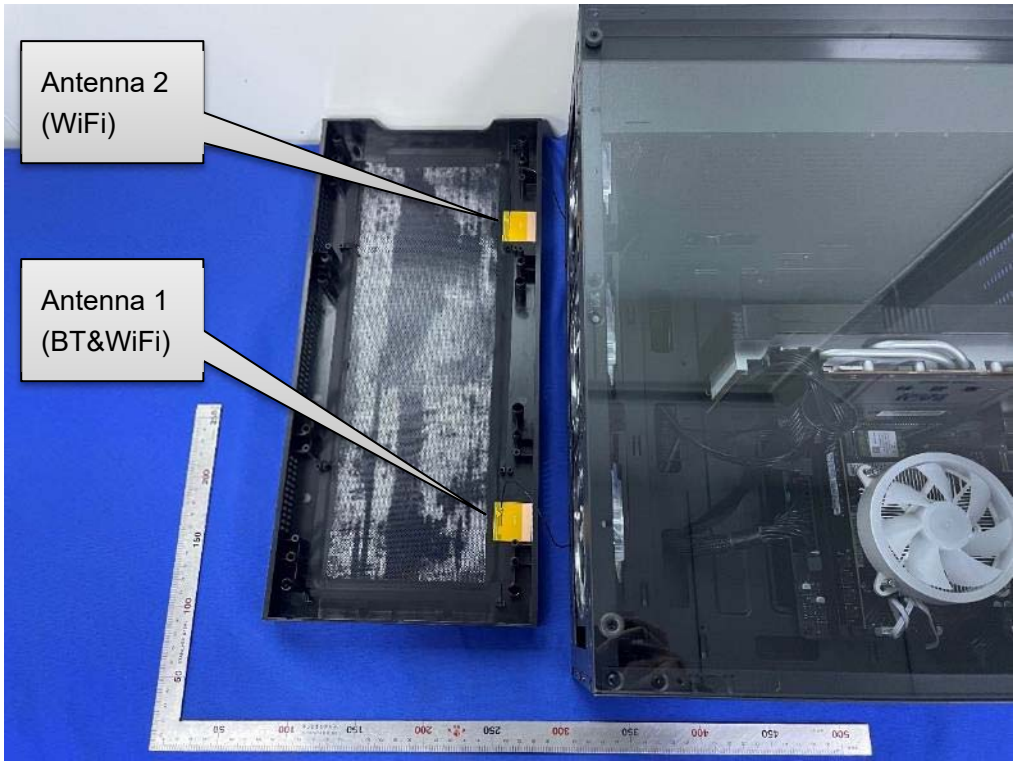


Internal-13 of the sample



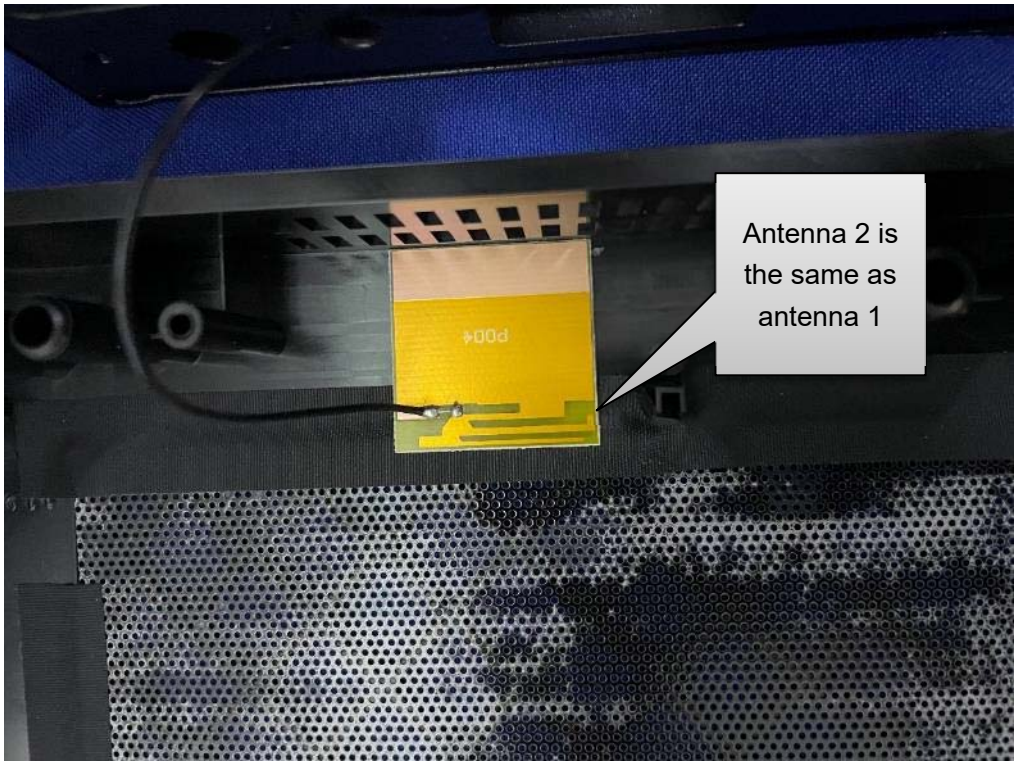
Internal-14 of the sample

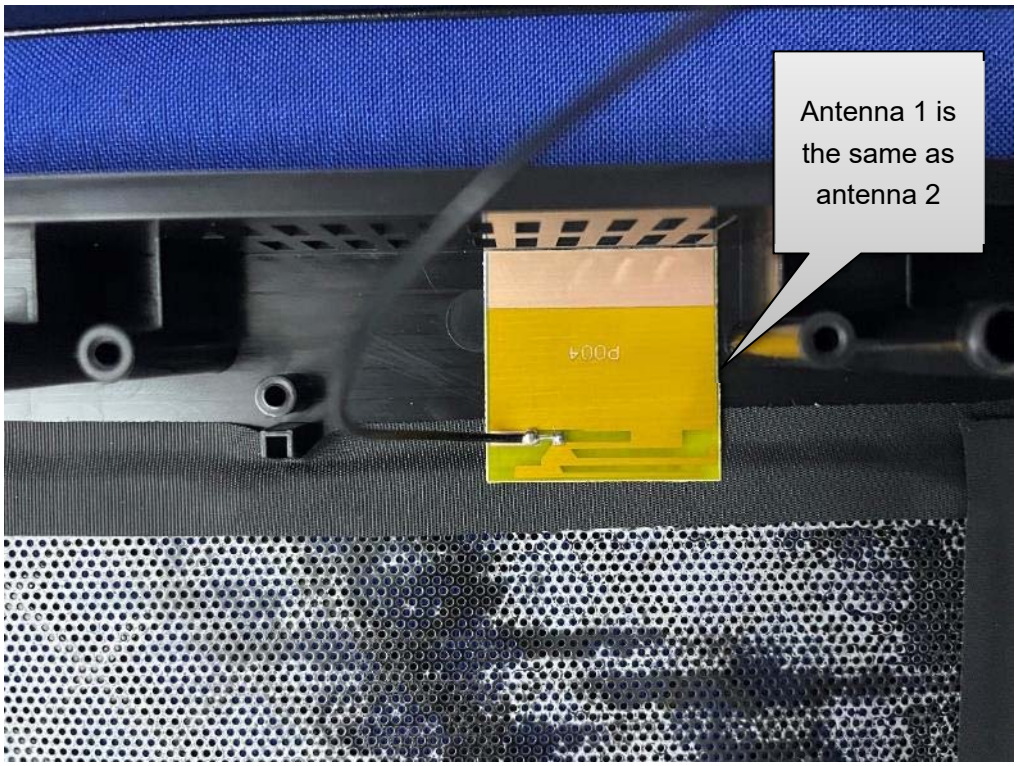
Internal-15 of the sample



Antenna Position

Antenna Interface

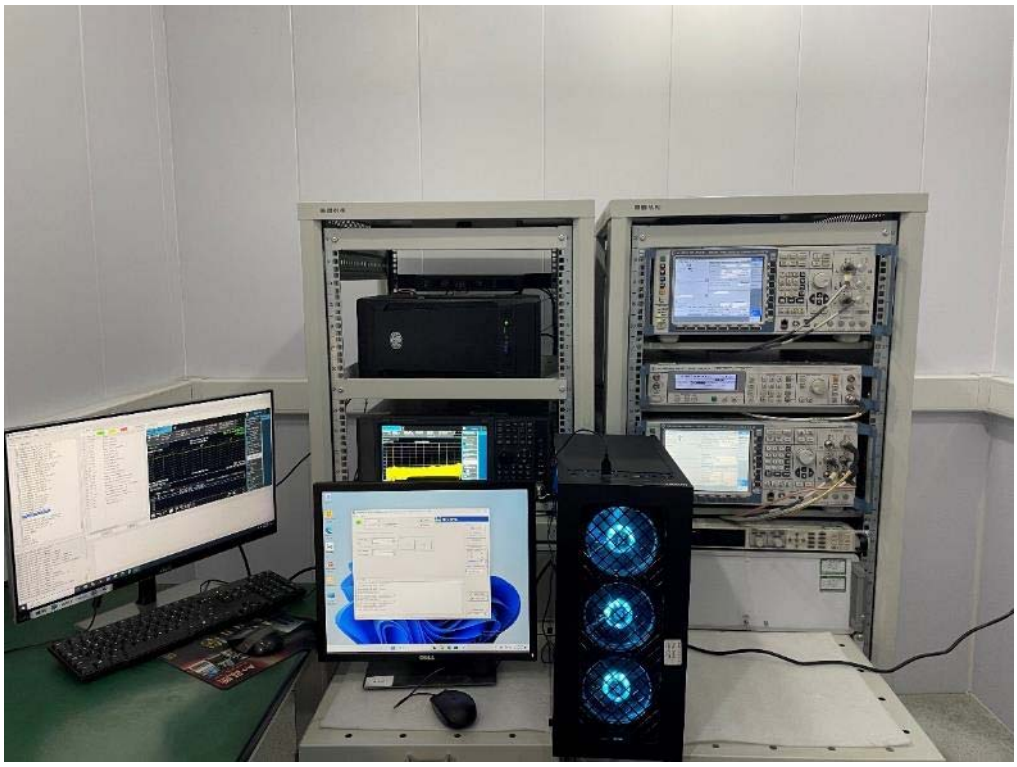




Antenna Photo

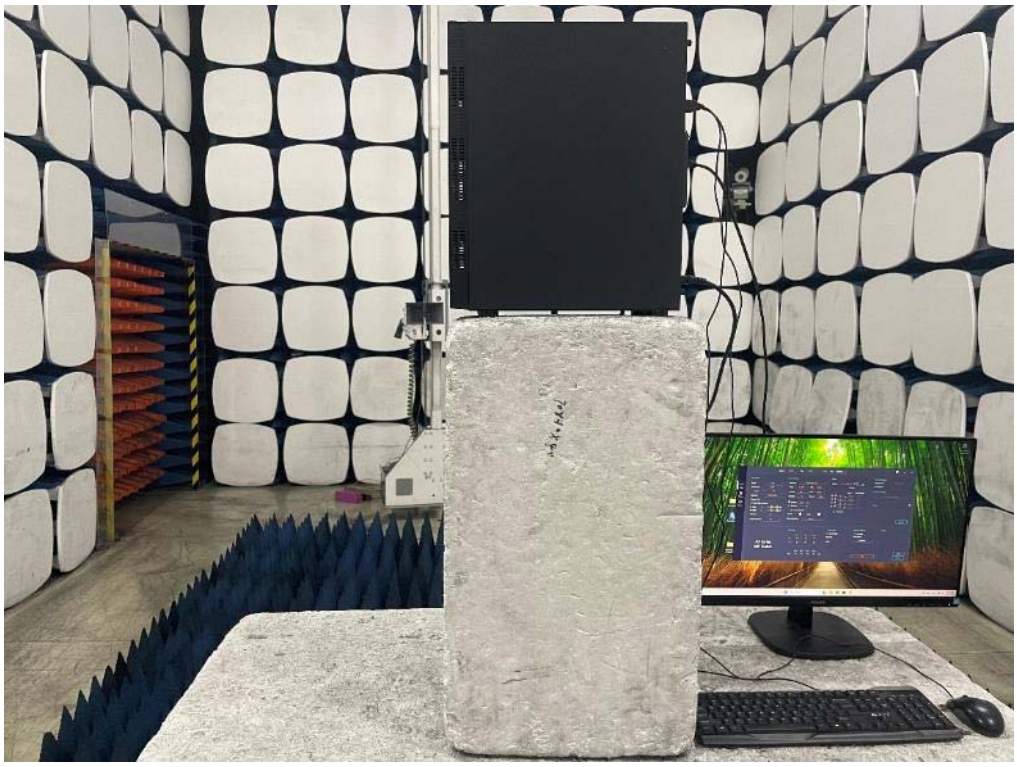
5.2 Set-up for Conducted Emission on AC Mains

5.3 Set-up for Conducted RF test at Antenna Port



5.4 Set-up for Radiated Spurious Emissions below 1GHz

5.5 Set-up for Radiated Spurious Emissions above 1GHz



End of the report