

TEST REPORT

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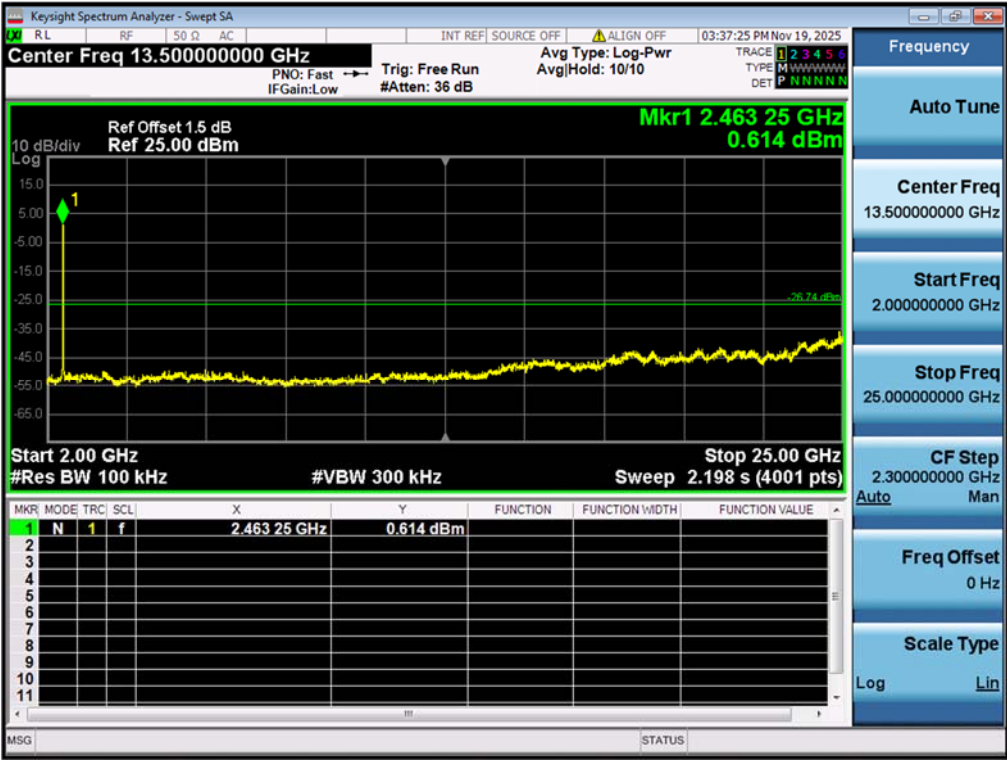
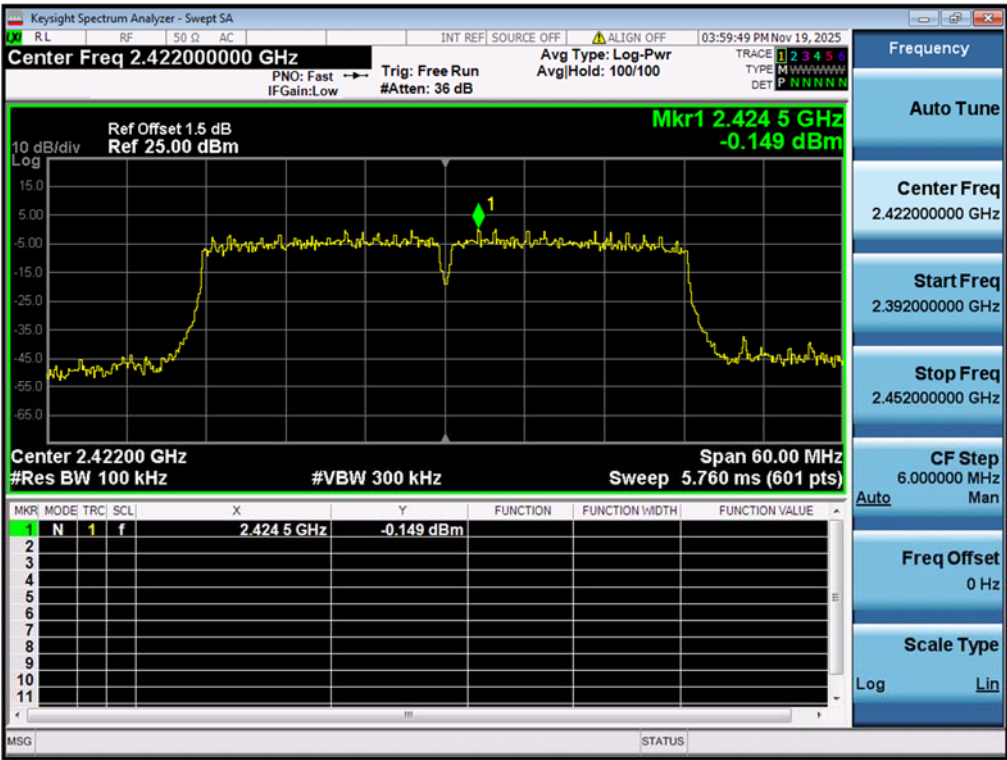


Figure 38: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



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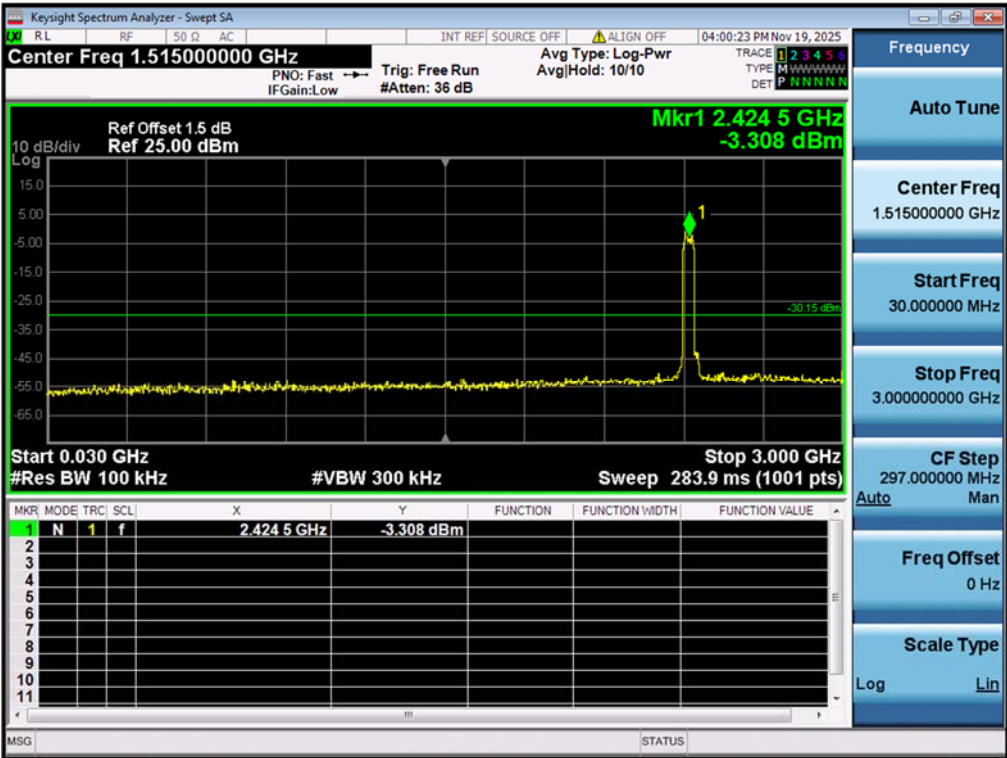
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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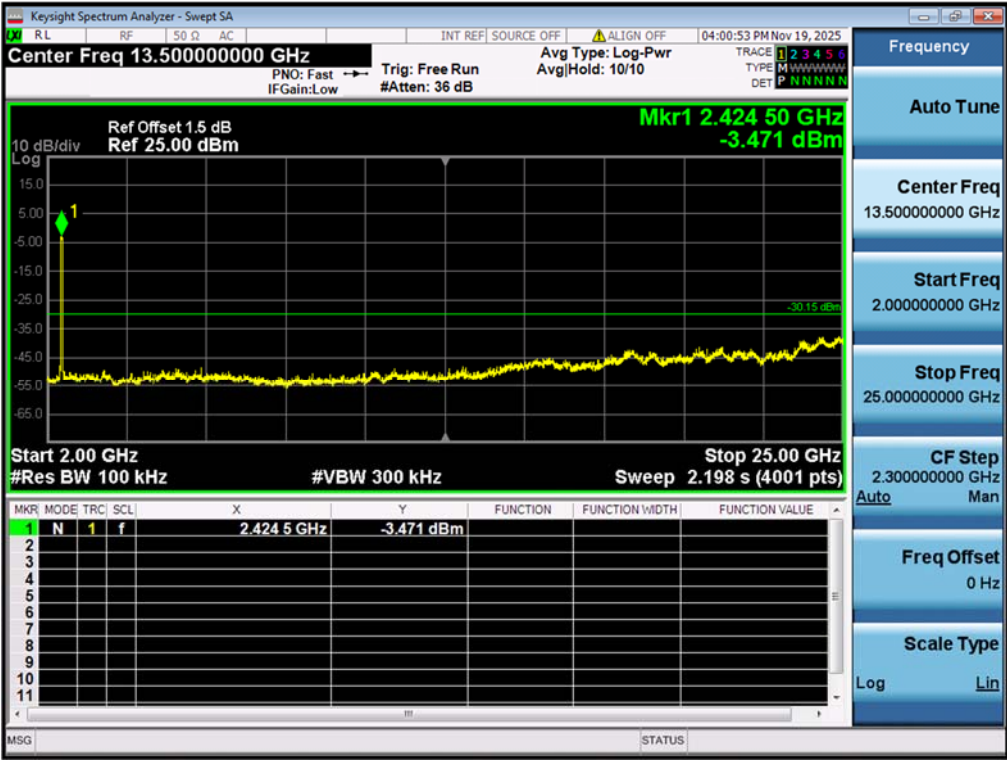
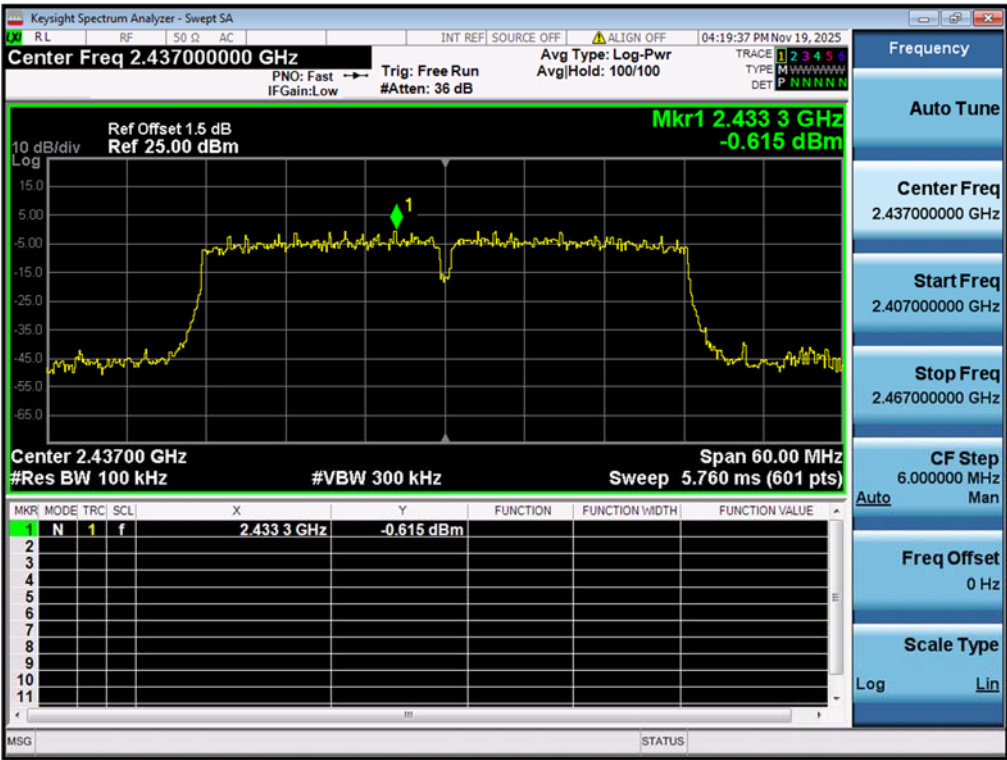


Figure 39: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



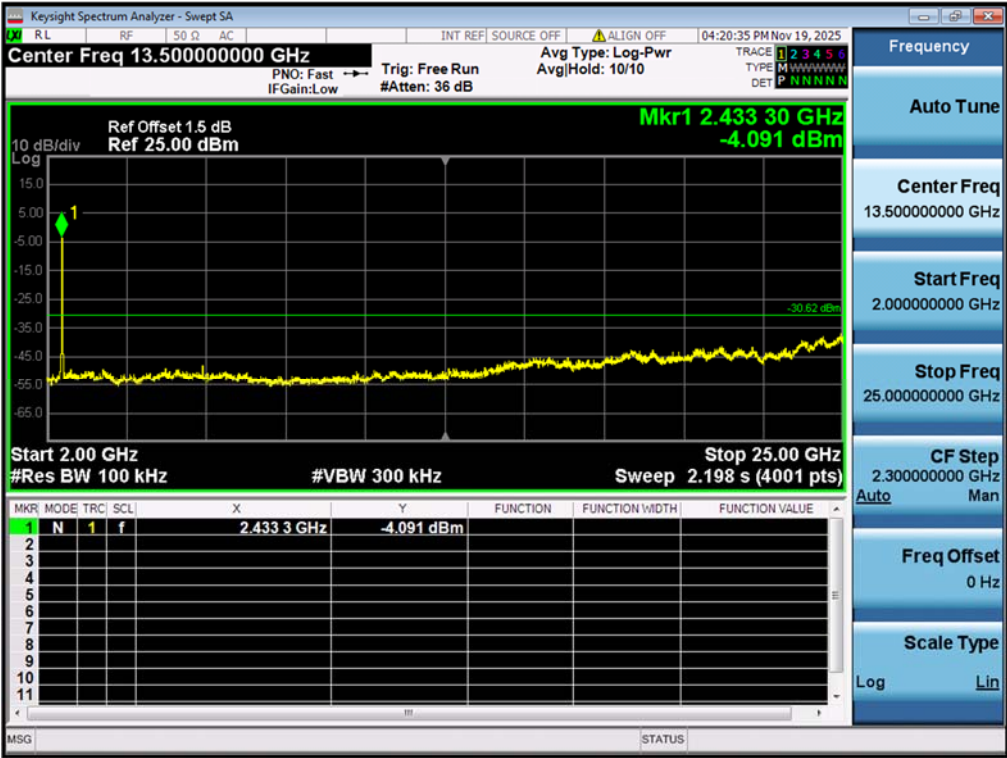
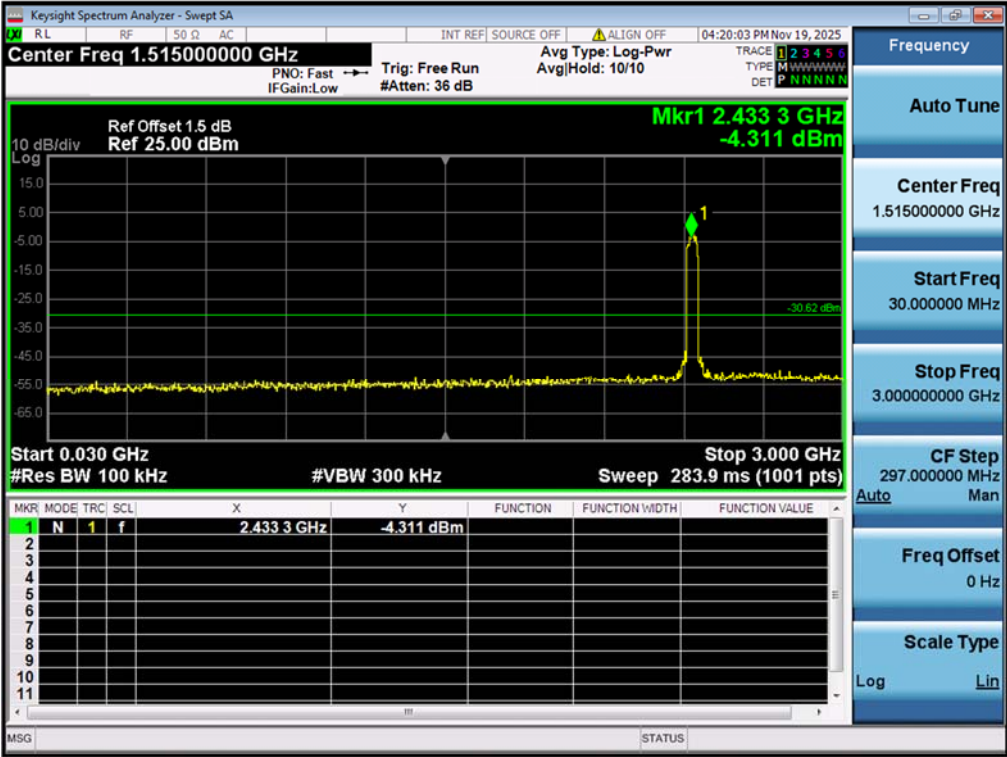
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Conducted spurious emissions 30MHz-25GHz



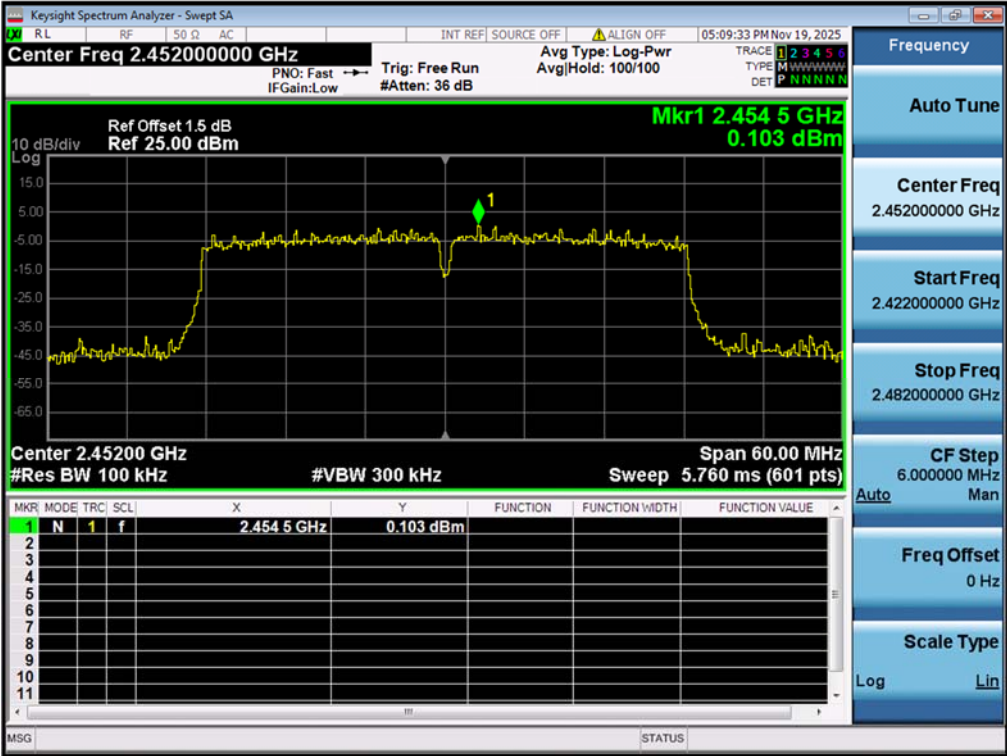
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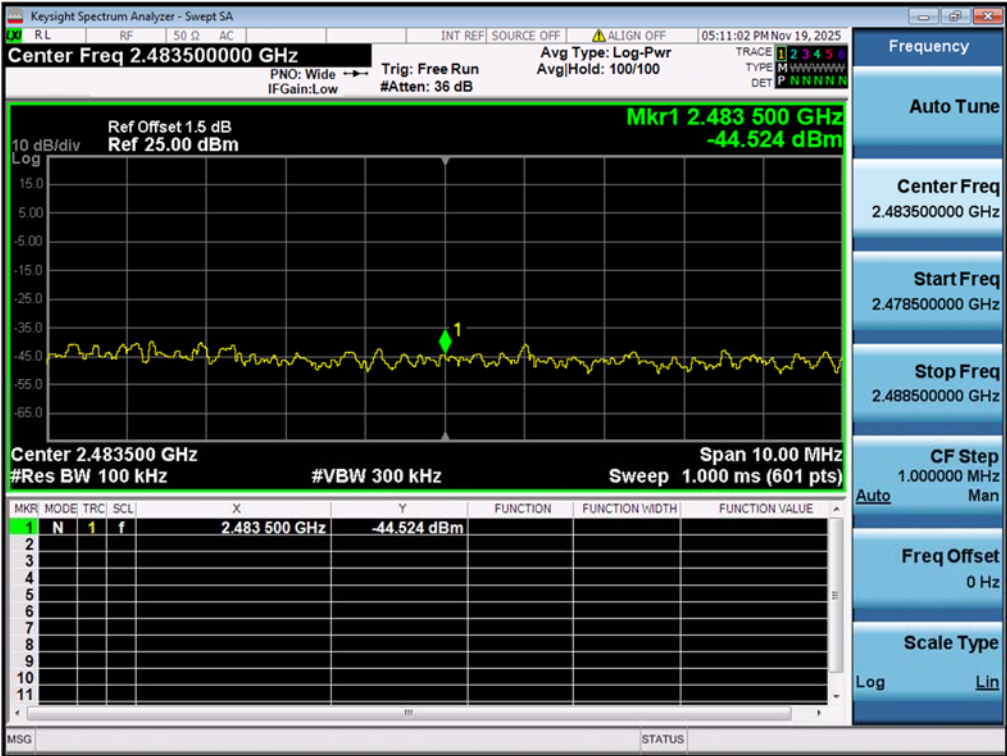
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Figure 40: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



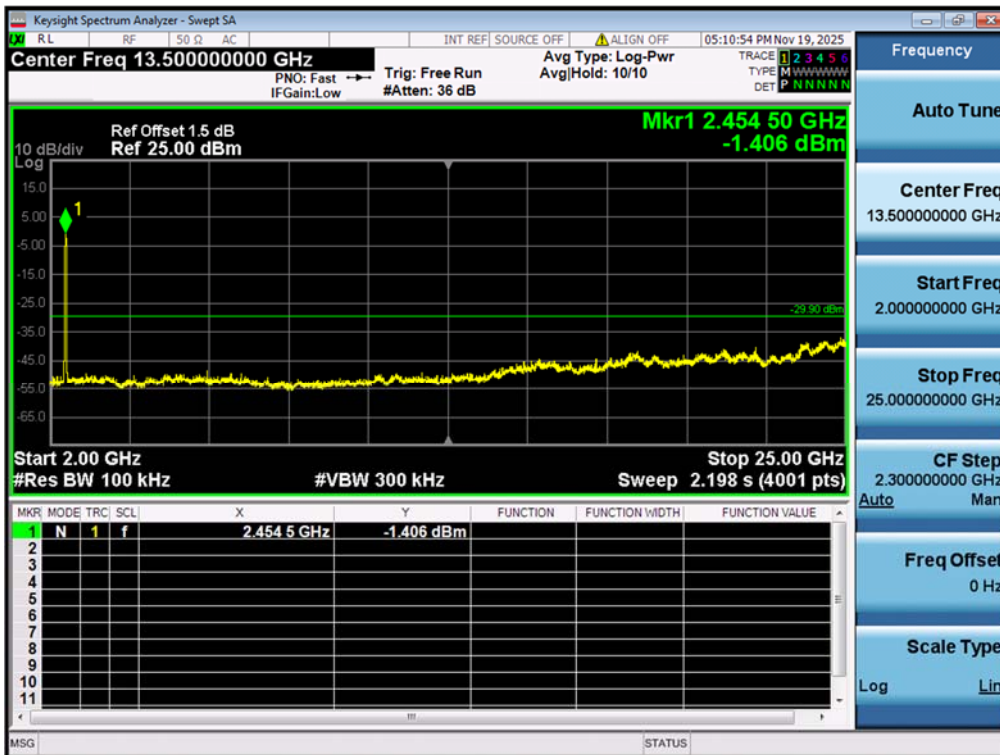
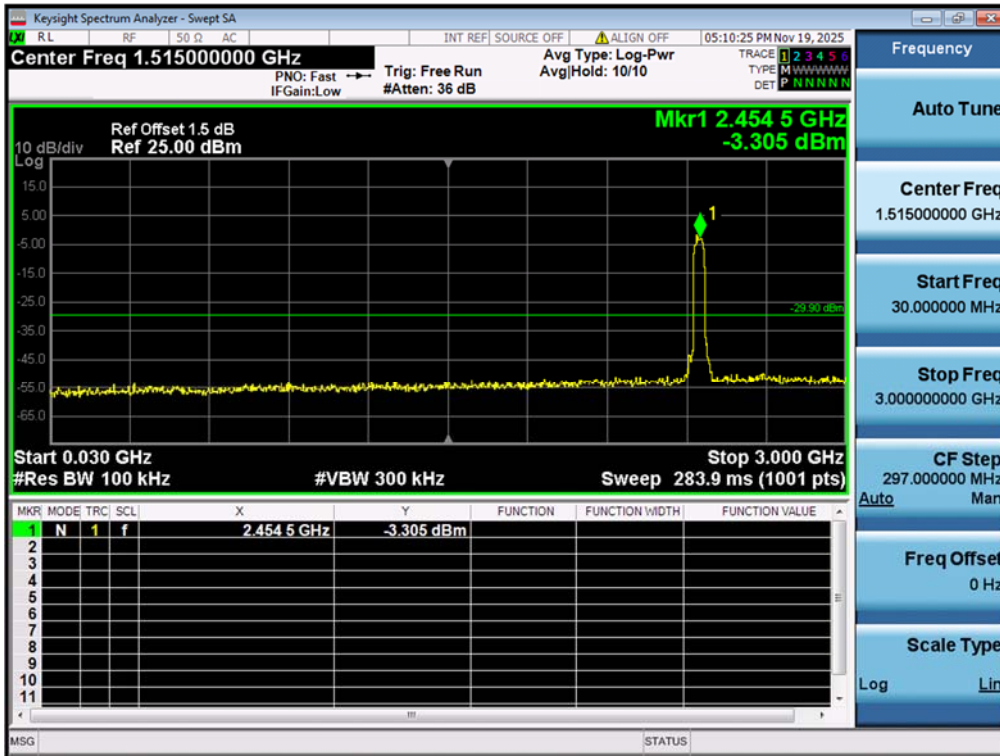
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2020, Clause 11.12.1 KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 23.1°C
Relative humidity	: 45%

Notes

Test plots please refer to the annex document "SHE25110007-01AE DATA WIFI 2.4GHz-TX EXHIBIT A".

- 1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.*
- 2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.*
- 3. All test modes had been pre-tested, but only the 802.11b at low channel of below 1 GHz is the worst case and recorded in the report.*
- 4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.*

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4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2020, Clause 11.12.3 KDB 558074 D01 v05r02, Clause 8.7
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 23.1°C
Relative humidity	: 45%

Notes:

1. Test plots please refer to the annex document "SHE25110007-01AE DATA WIFI 2.4GHz-TX EXHIBIT A".
2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a)
Requirement	: ANSI C63.10-2020, Clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: DC 33.6V 5A supply by Power Unit (which received AC 120V, 60Hz)
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 23.2°C
Relative humidity	: 47%

For details refer to following test plot.

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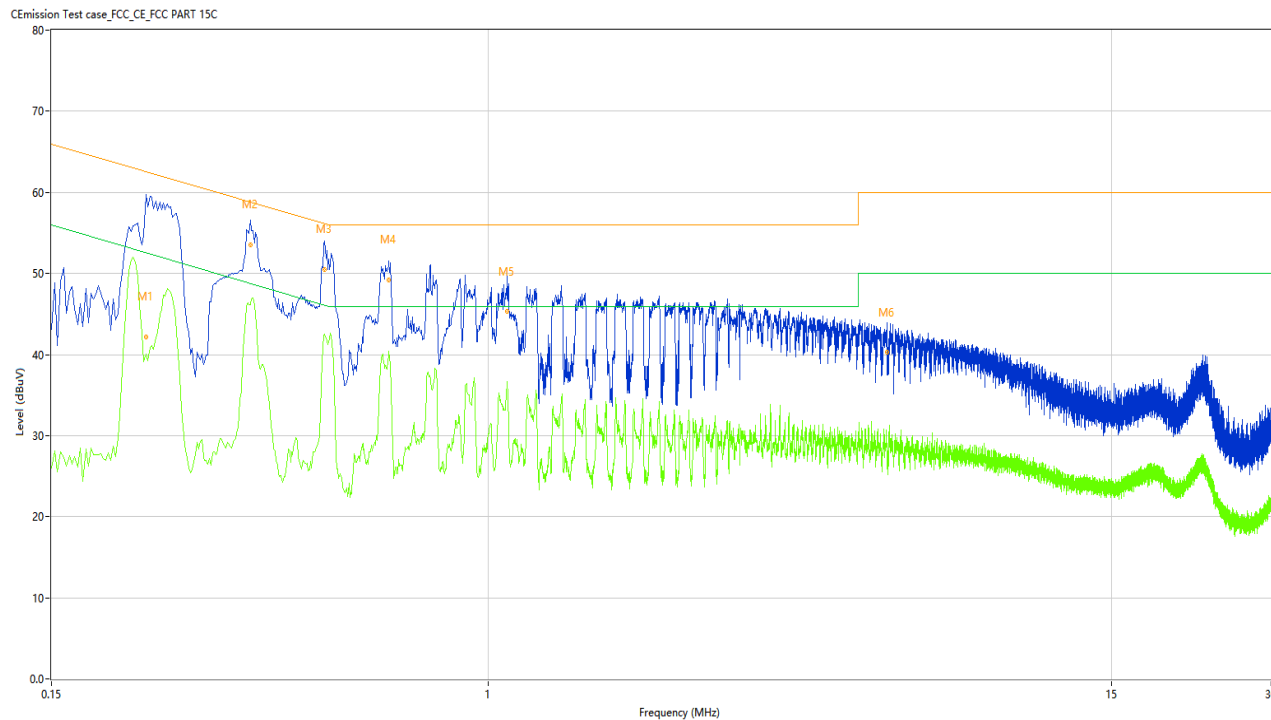
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 41: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.226	47.03	10.23	62.60	15.57	Peak	L	Pass
1*	0.226	42.25	10.23	62.60	20.35	QP	L	Pass
1**	0.226	40.17	10.23	52.60	12.43	AV	L	Pass
2	0.356	56.81	10.23	58.82	2.01	Peak	L	Pass
2*	0.356	53.57	10.23	58.82	5.25	QP	L	Pass
2**	0.356	46.19	10.23	48.82	2.63	AV	L	Pass
3	0.492	54.50	10.20	56.13	1.63	Peak	L	Pass
3*	0.492	50.55	10.20	56.13	5.58	QP	L	Pass
3**	0.492	42.57	10.20	46.13	3.56	AV	L	Pass
4	0.650	51.94	10.28	56.00	4.06	Peak	L	Pass
4*	0.650	49.28	10.28	56.00	6.72	QP	L	Pass
4**	0.650	40.42	10.28	46.00	5.58	AV	L	Pass
5	1.086	50.81	9.97	56.00	5.19	Peak	L	Pass
5*	1.086	45.38	9.97	56.00	10.62	QP	L	Pass
5**	1.086	36.67	9.97	46.00	9.33	AV	L	Pass
6	5.660	43.95	10.22	60.00	16.05	Peak	L	Pass
6*	5.660	40.39	10.22	60.00	19.61	QP	L	Pass
6**	5.660	27.33	10.22	50.00	22.67	AV	L	Pass

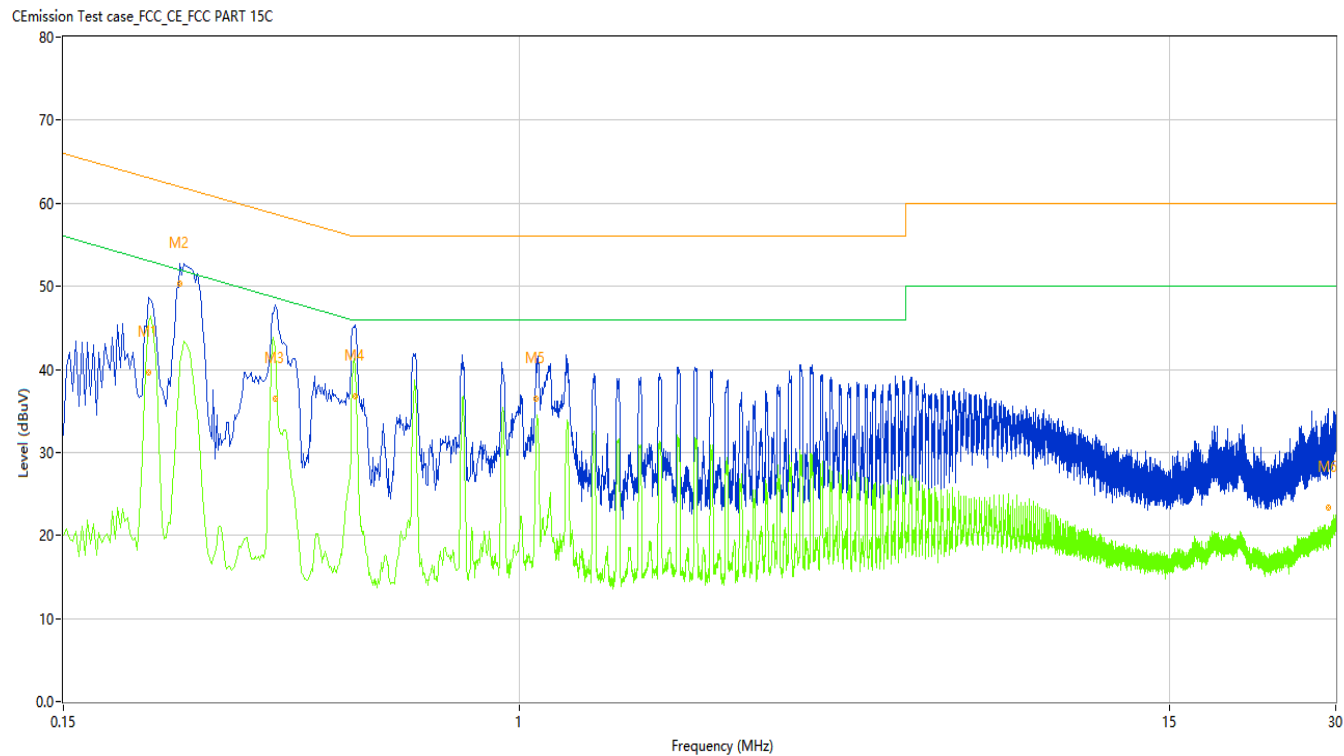
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Figure 42: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.214	44.72	10.16	63.05	18.33	Peak	N	Pass
1*	0.214	39.70	10.16	63.05	23.35	QP	N	Pass
1**	0.214	45.60	10.16	53.05	7.45	AV	N	Pass
2	0.244	52.31	10.15	61.96	9.65	Peak	N	Pass
2*	0.244	50.37	10.15	61.96	11.59	QP	N	Pass
2**	0.244	40.84	10.15	51.96	11.12	AV	N	Pass
3	0.362	41.06	10.11	58.68	17.62	Peak	N	Pass
3*	0.362	36.53	10.11	58.68	22.15	QP	N	Pass
3**	0.362	42.64	10.11	48.68	6.04	AV	N	Pass
4	0.506	42.05	10.03	56.00	13.95	Peak	N	Pass
4*	0.506	36.76	10.03	56.00	19.24	QP	N	Pass
4**	0.506	40.17	10.03	46.00	5.83	AV	N	Pass
5	1.074	40.91	9.84	56.00	15.09	Peak	N	Pass
5*	1.074	36.44	9.84	56.00	19.56	QP	N	Pass
5**	1.074	32.46	9.84	46.00	13.54	AV	N	Pass
6	29.078	31.25	11.36	60.00	28.75	Peak	N	Pass
6*	29.078	23.35	11.36	60.00	36.65	QP	N	Pass
6**	29.078	20.13	11.36	50.00	29.87	AV	N	Pass

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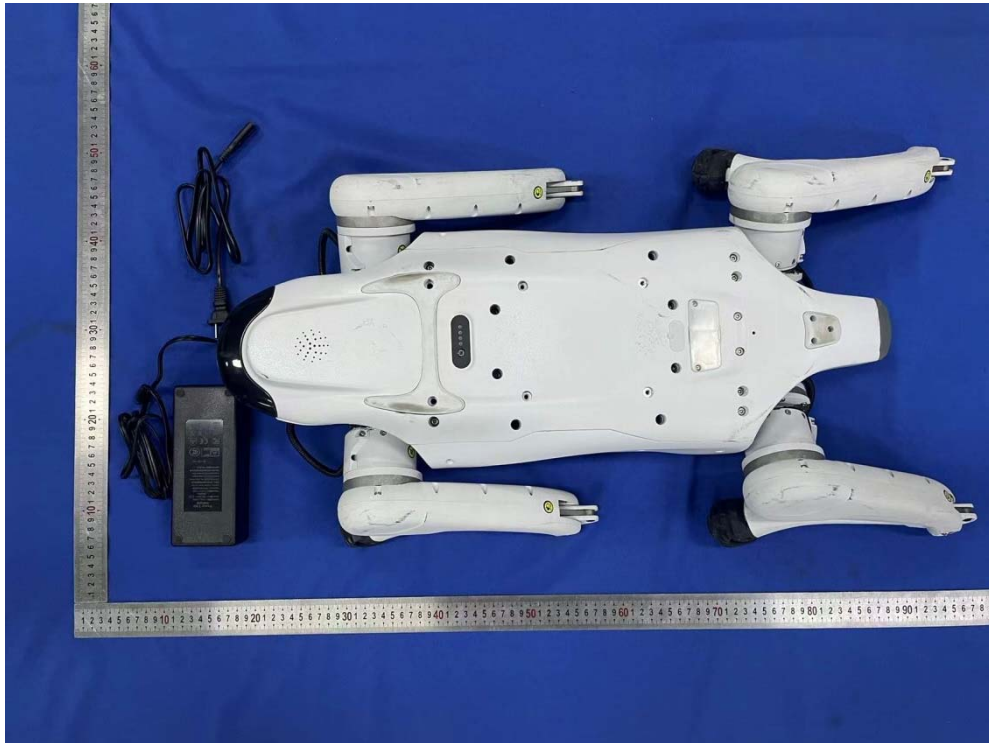
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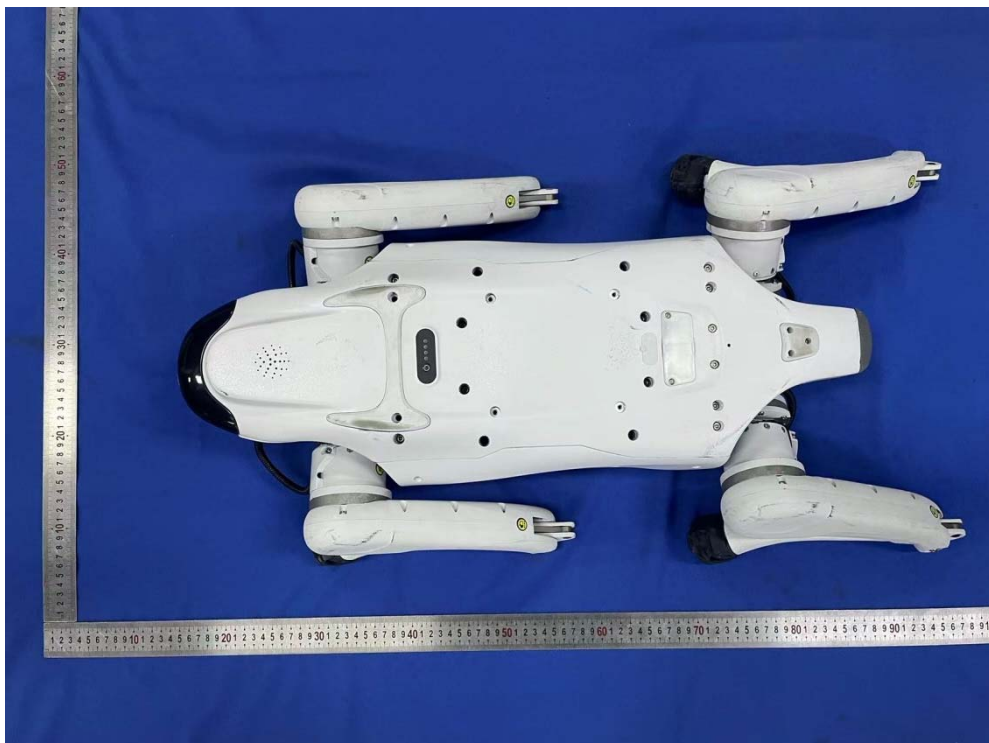
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5 Appendixes

5.1 External Photo of the Sample



All of the sample



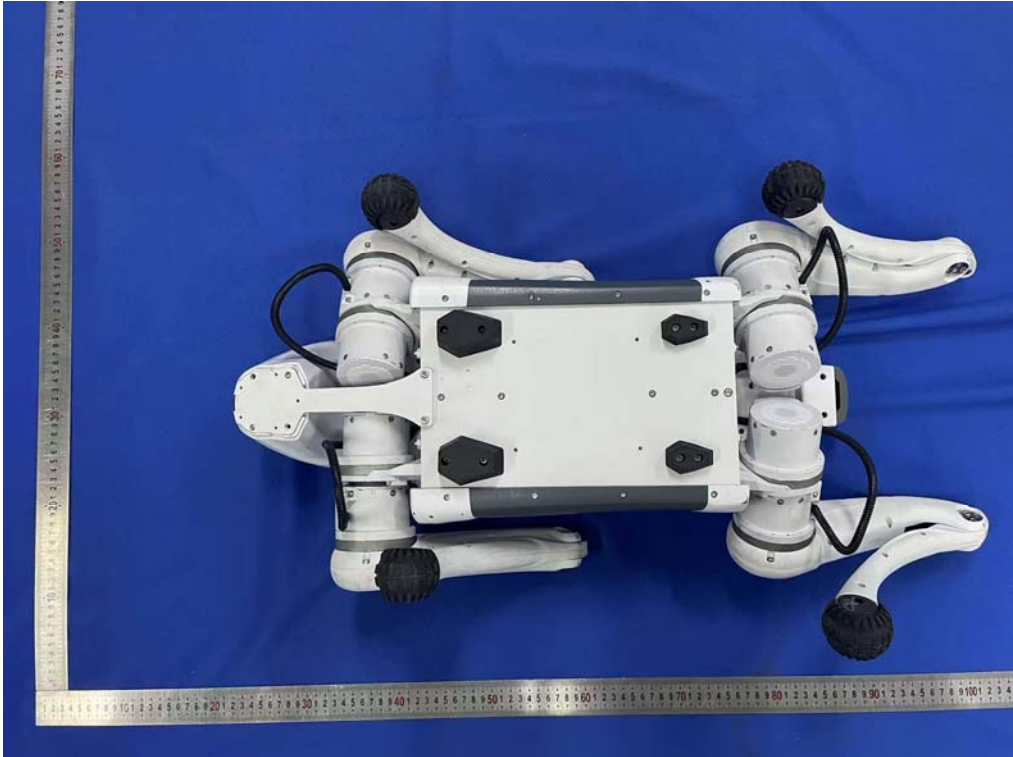
Top of the sample

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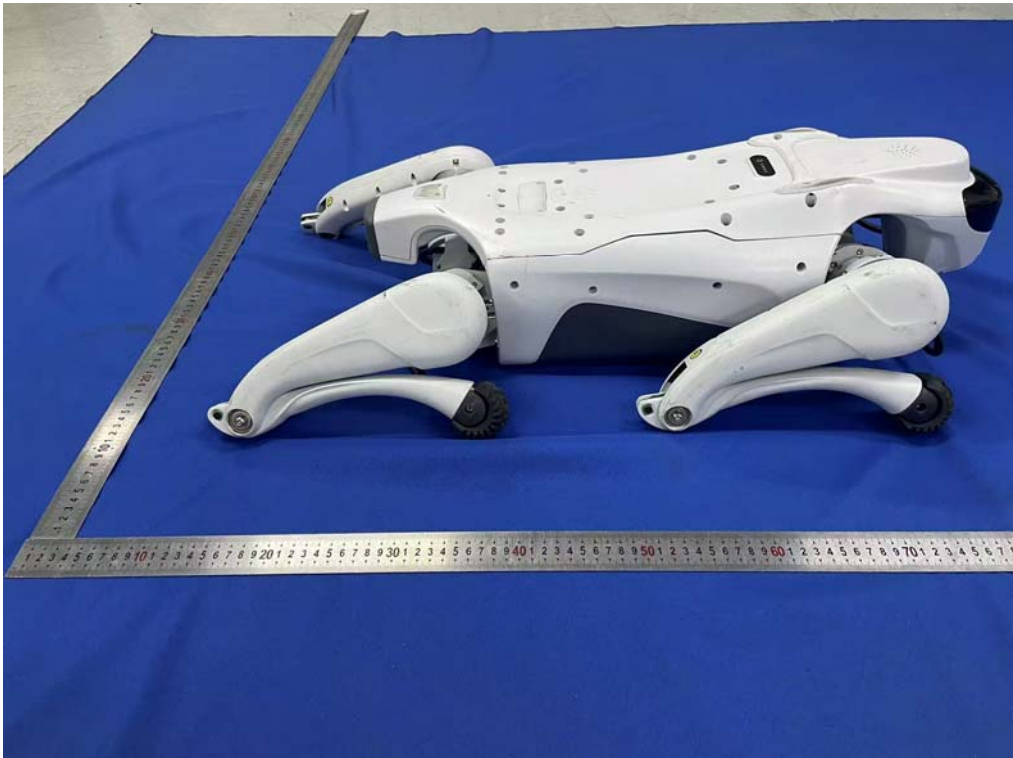
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Bottom of the sample



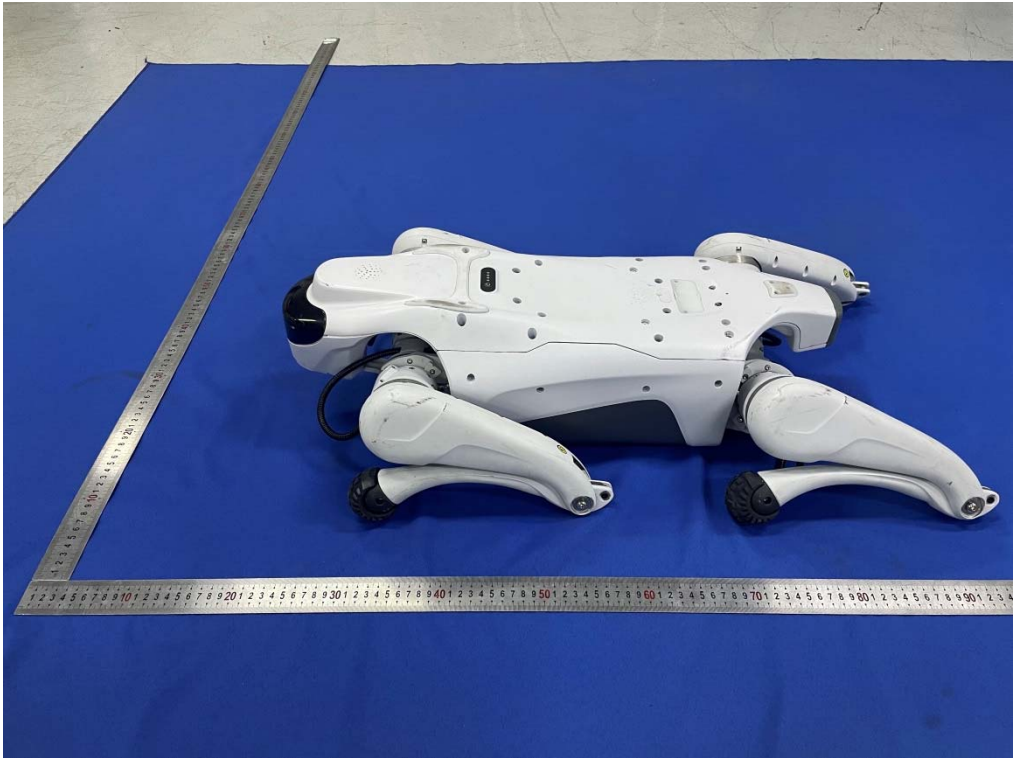
Left of the sample

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Right of the sample



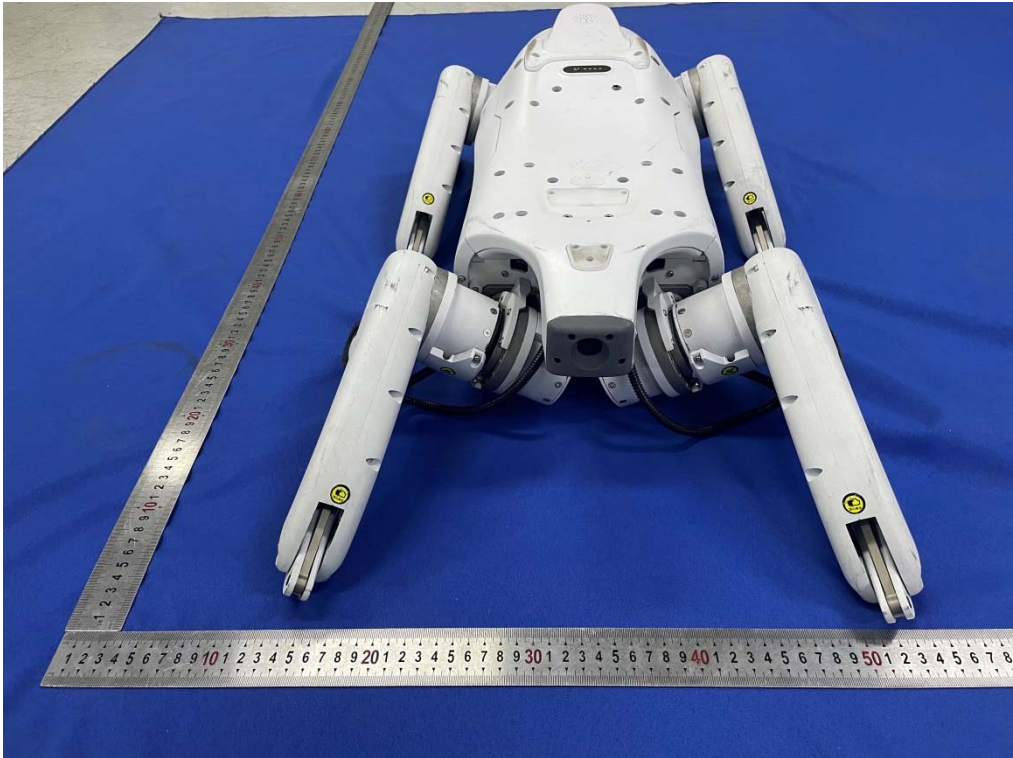
Front of the sample

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Back of the sample



Port of the sample

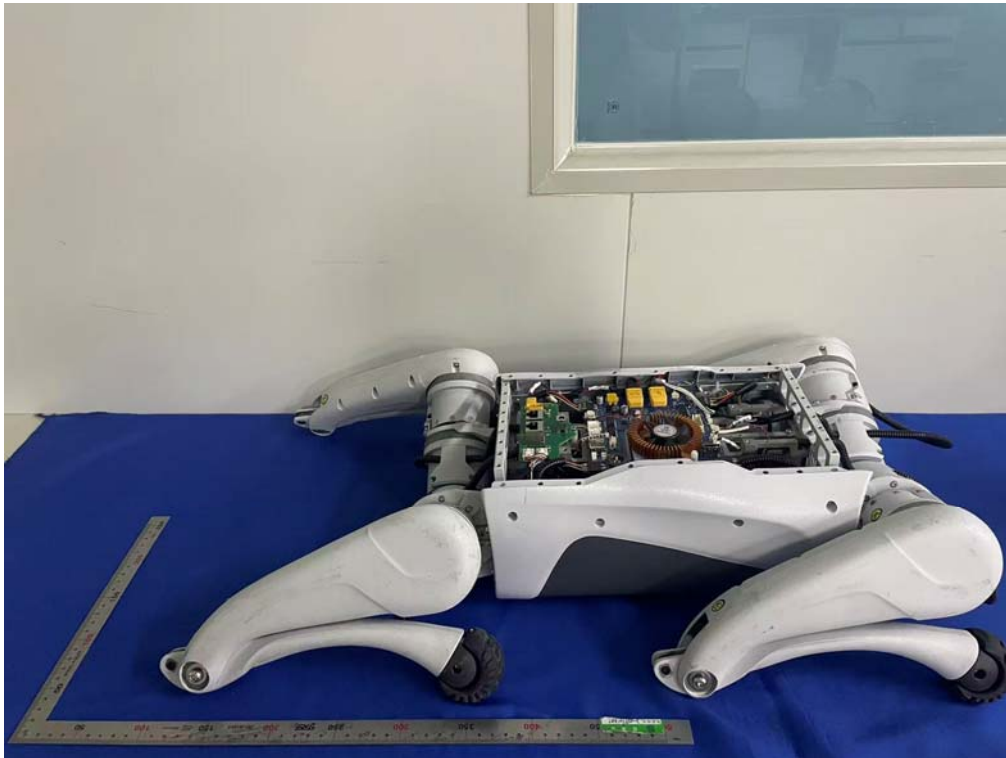
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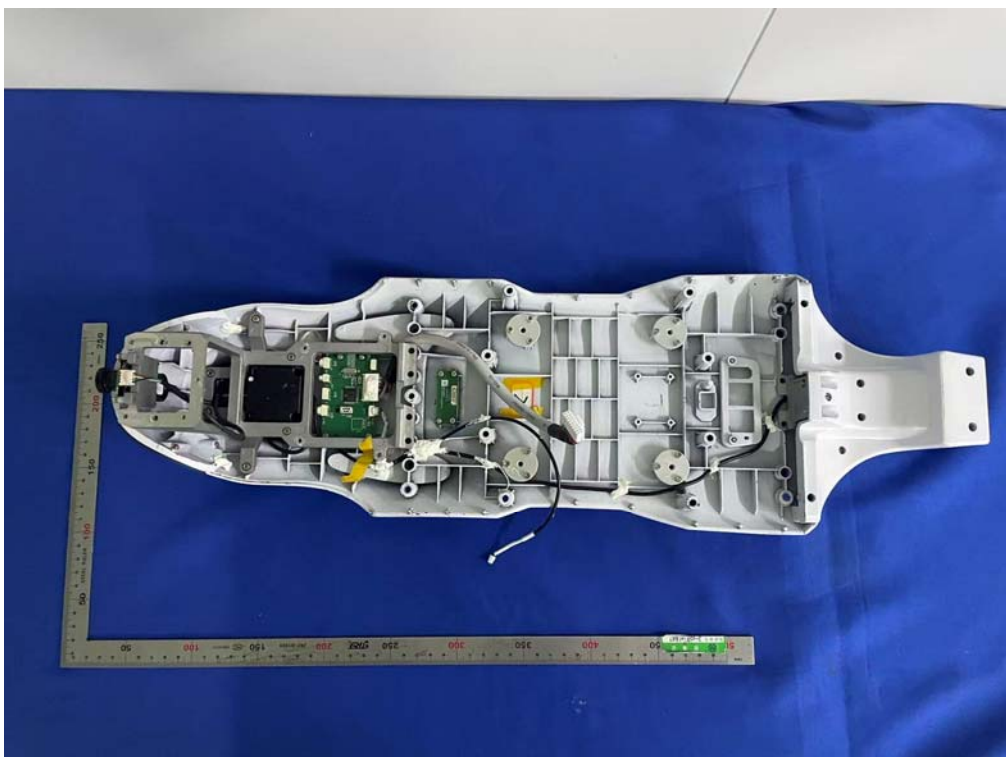
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5.2 Internal Photo of the Sample



Open-1 of the sample



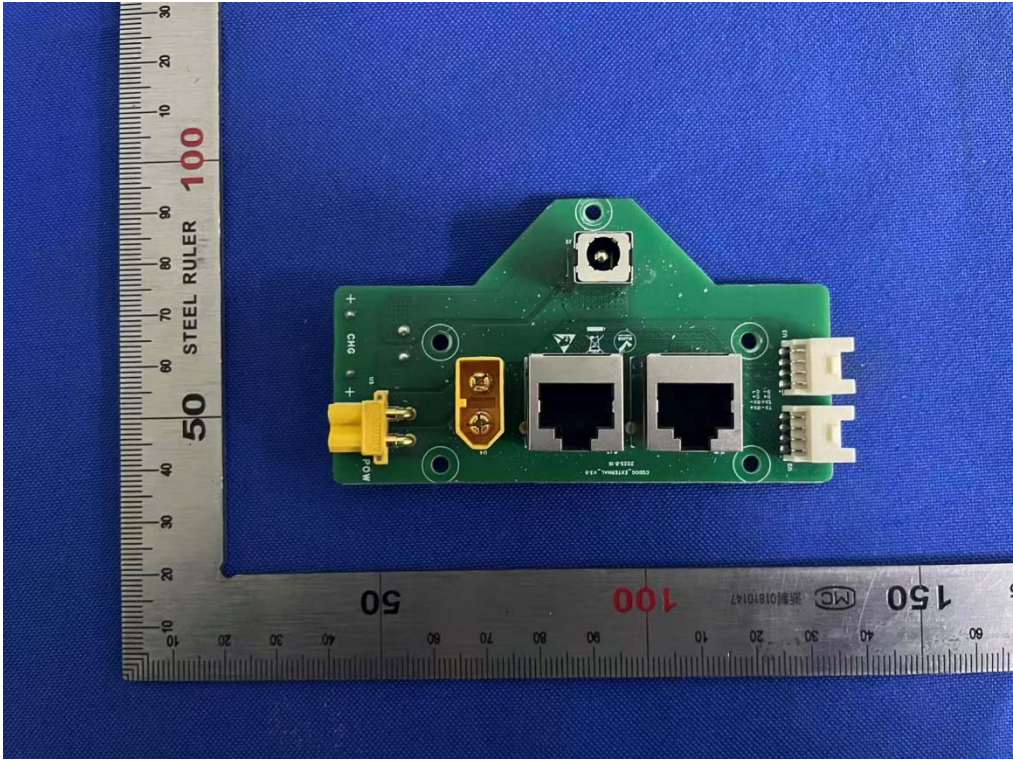
Open-2 of the sample

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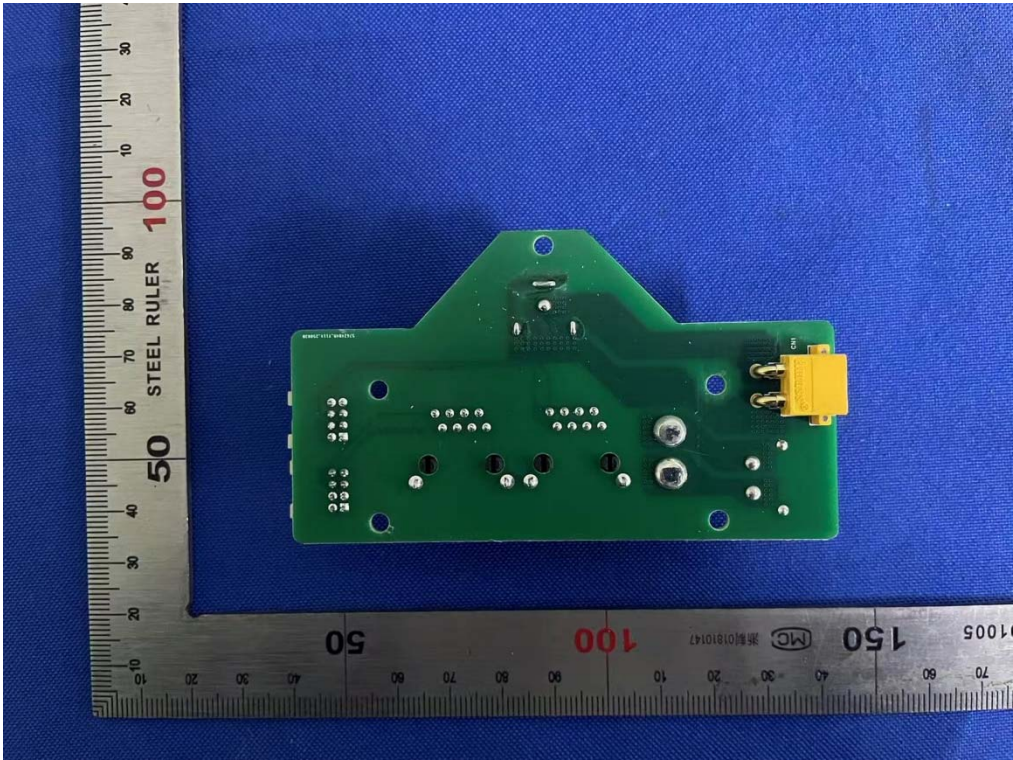
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Internal-1 of the sample



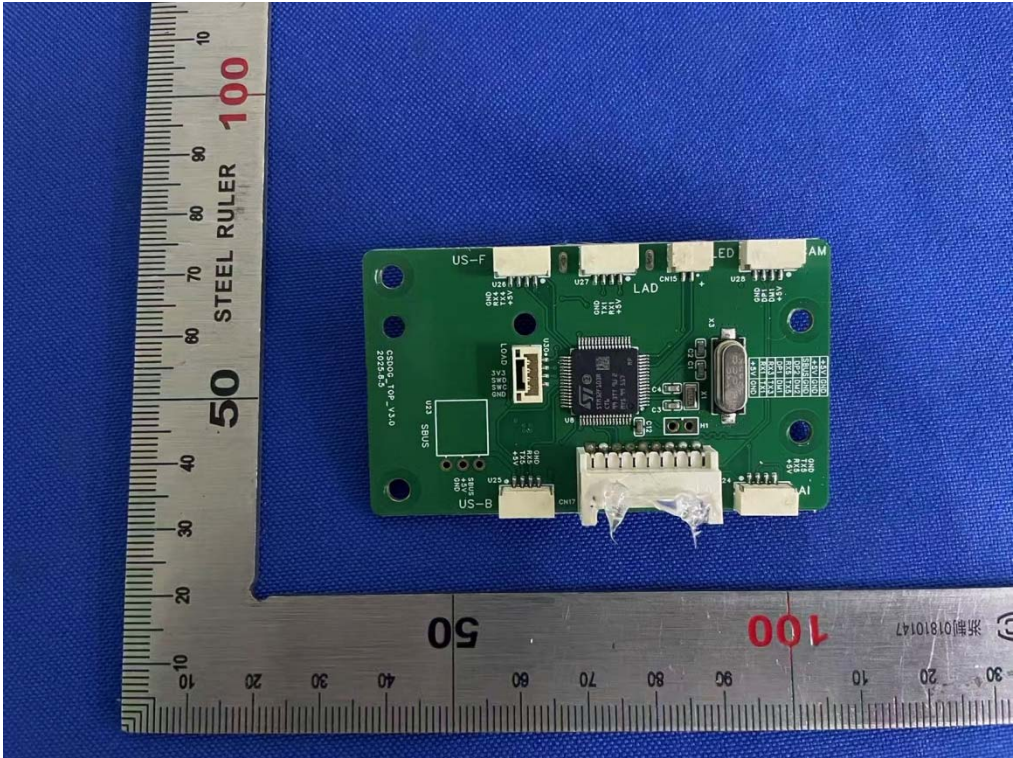
Internal-2 of the sample

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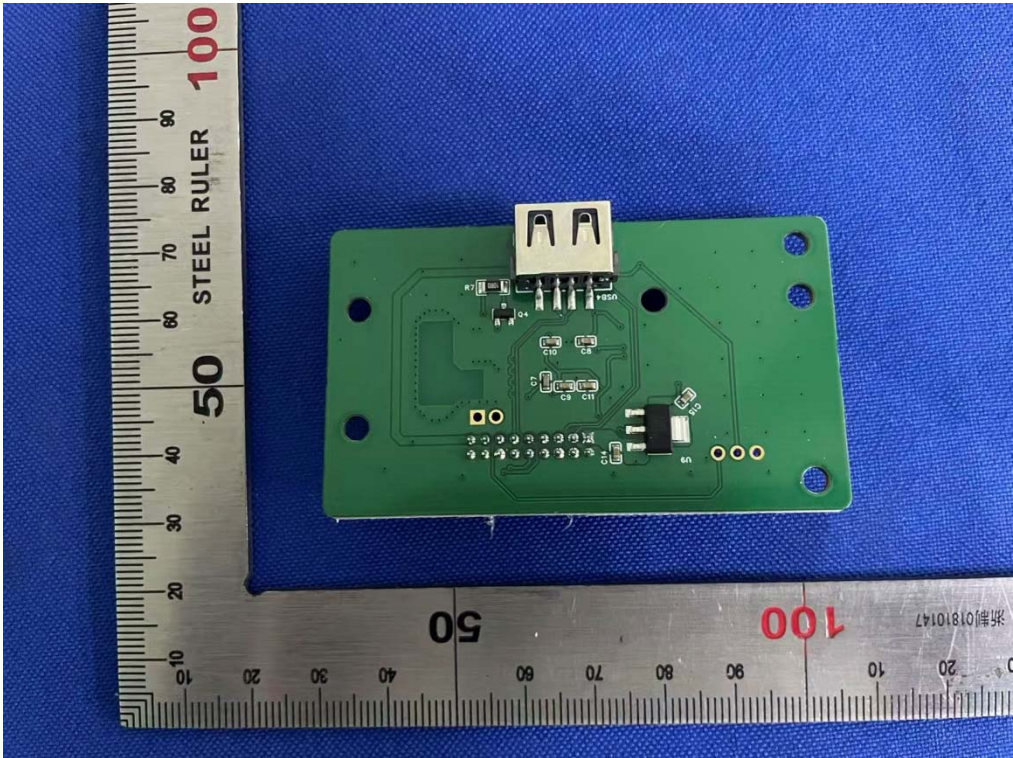
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Internal-3 of the sample



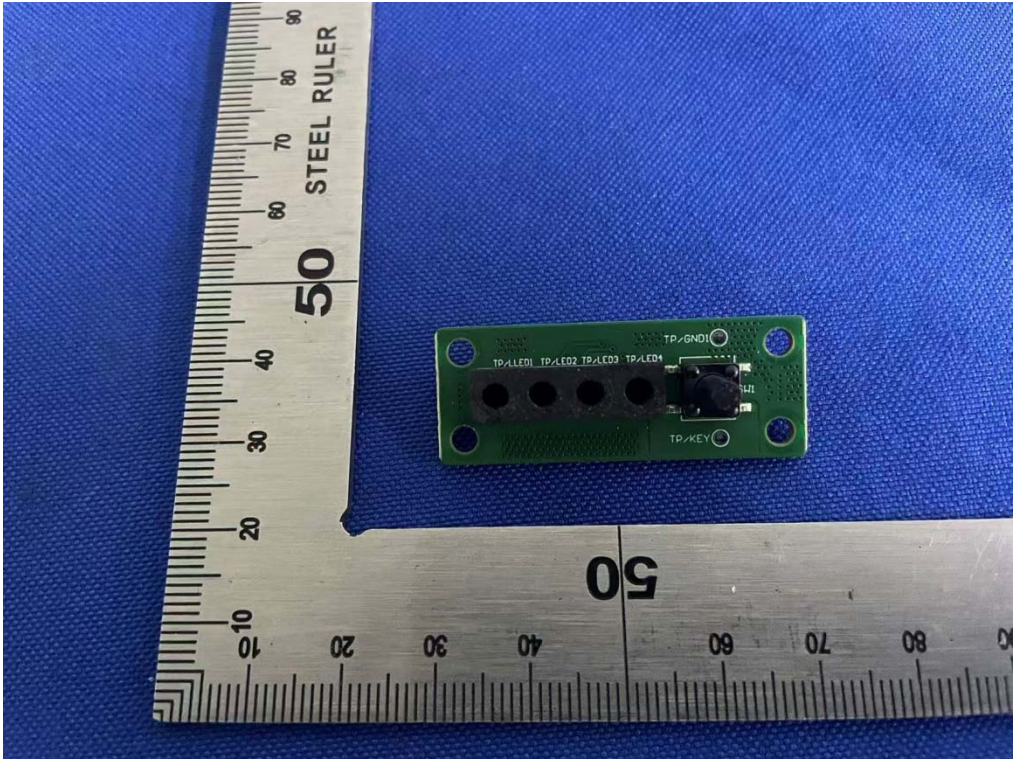
Internal-4 of the sample

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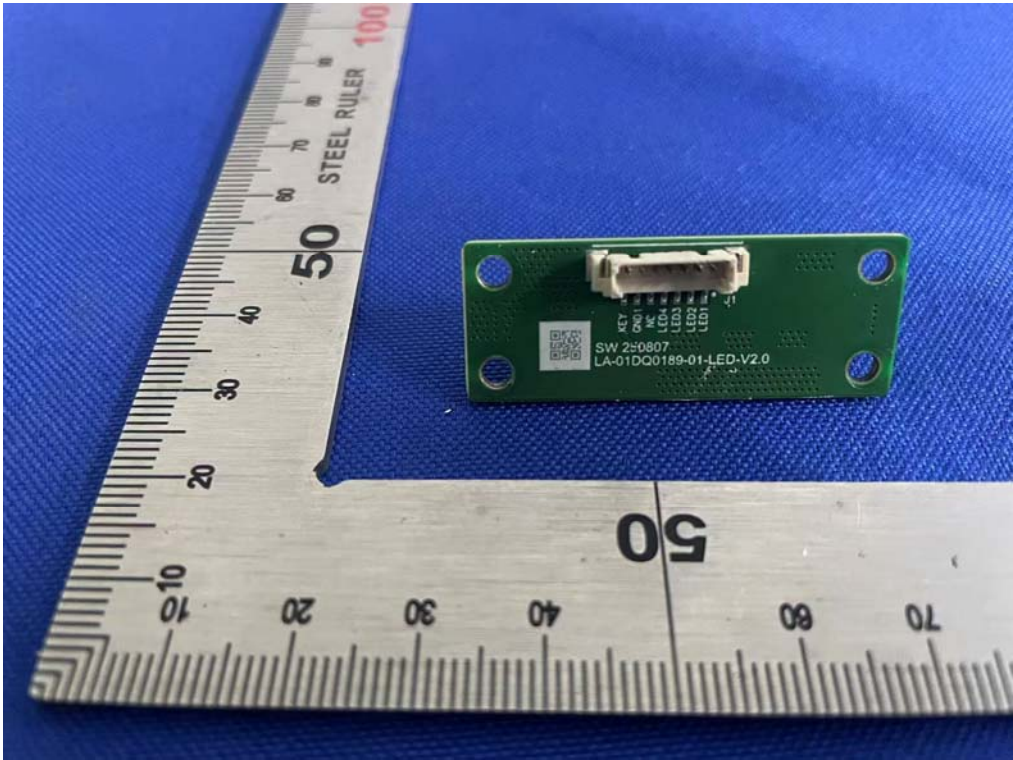
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Internal-5 of the sample



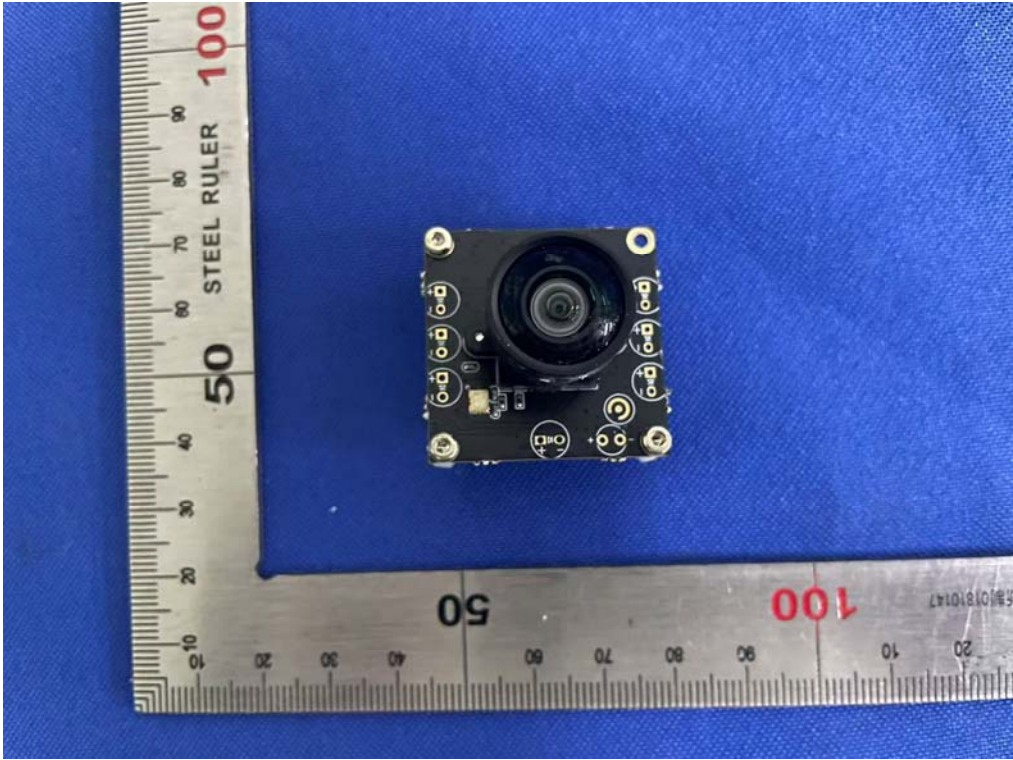
Internal-6 of the sample

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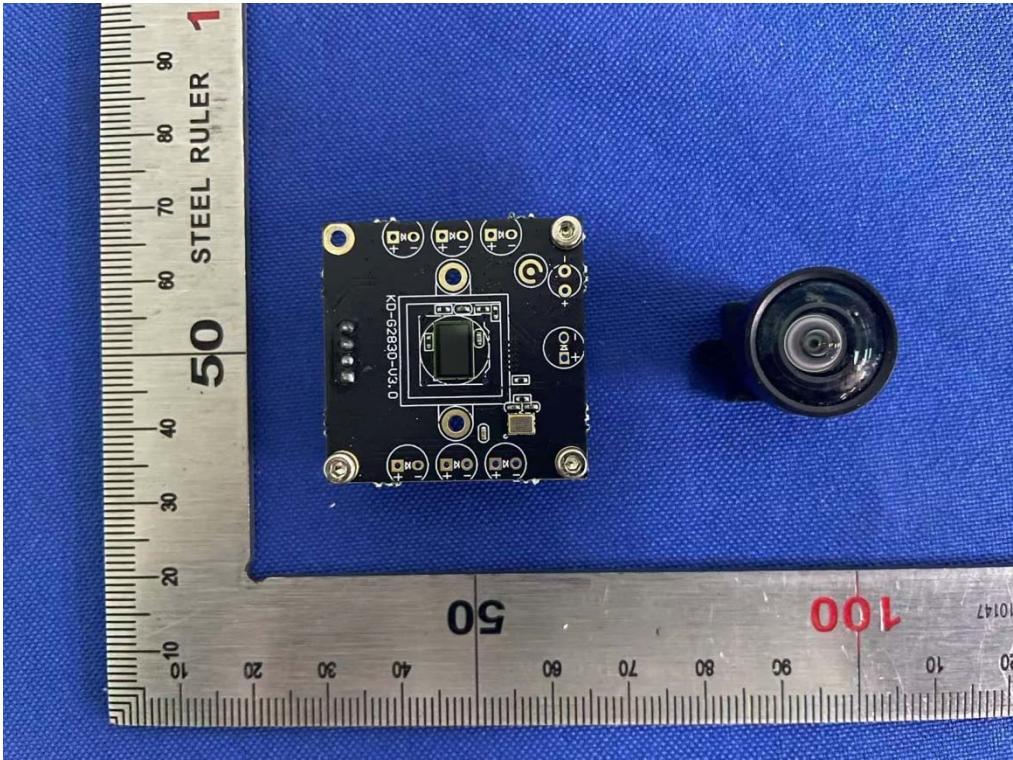
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Internal-7 of the sample



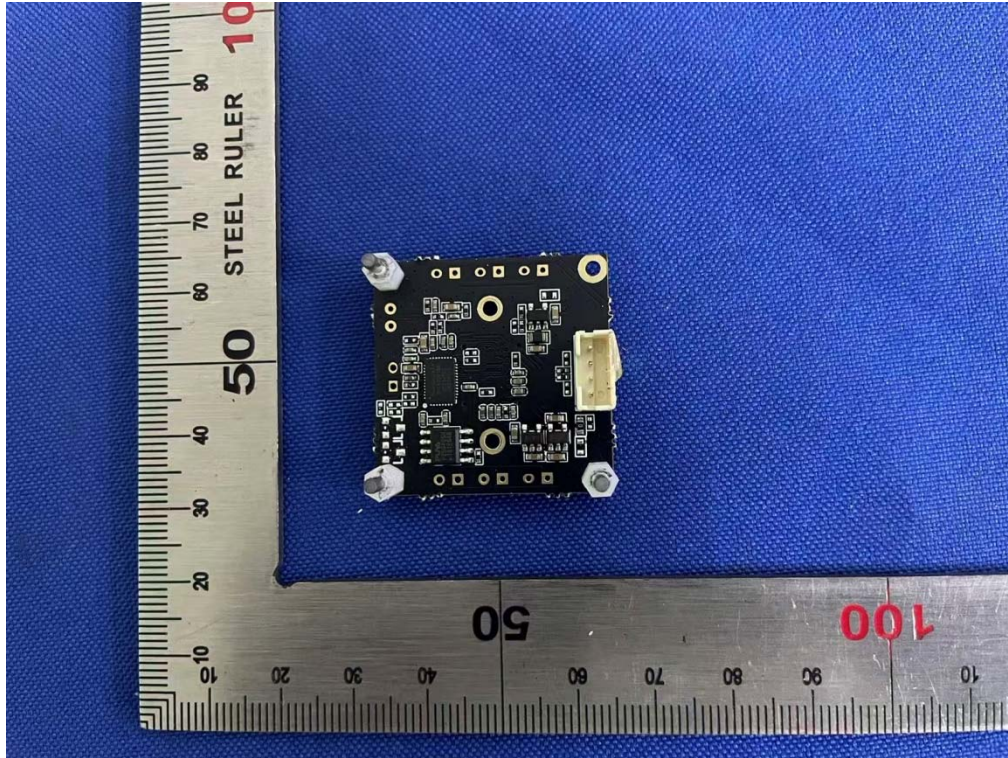
Internal-8 of the sample

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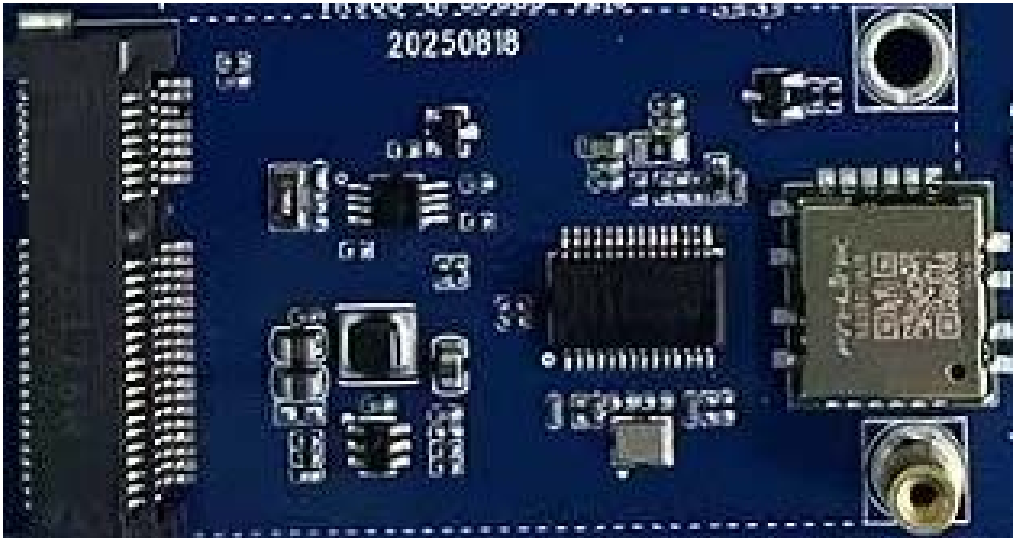


Internal-9 of the sample

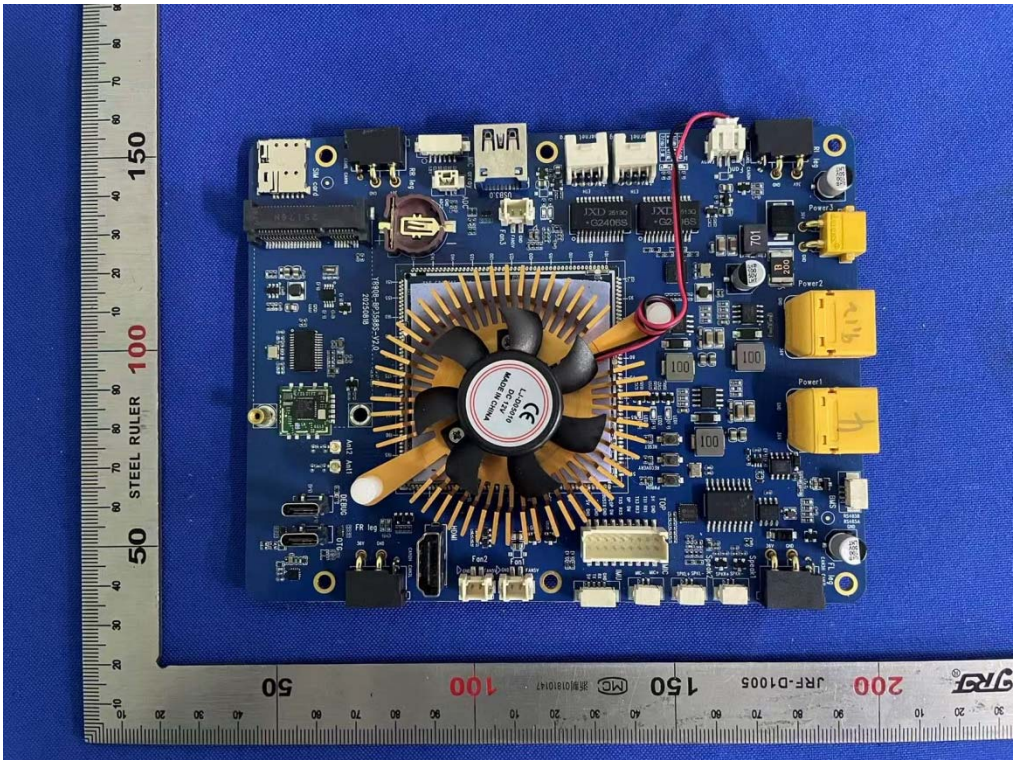


Internal-10 of the sample

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Internal-11 of the sample (Module with shielding cover)



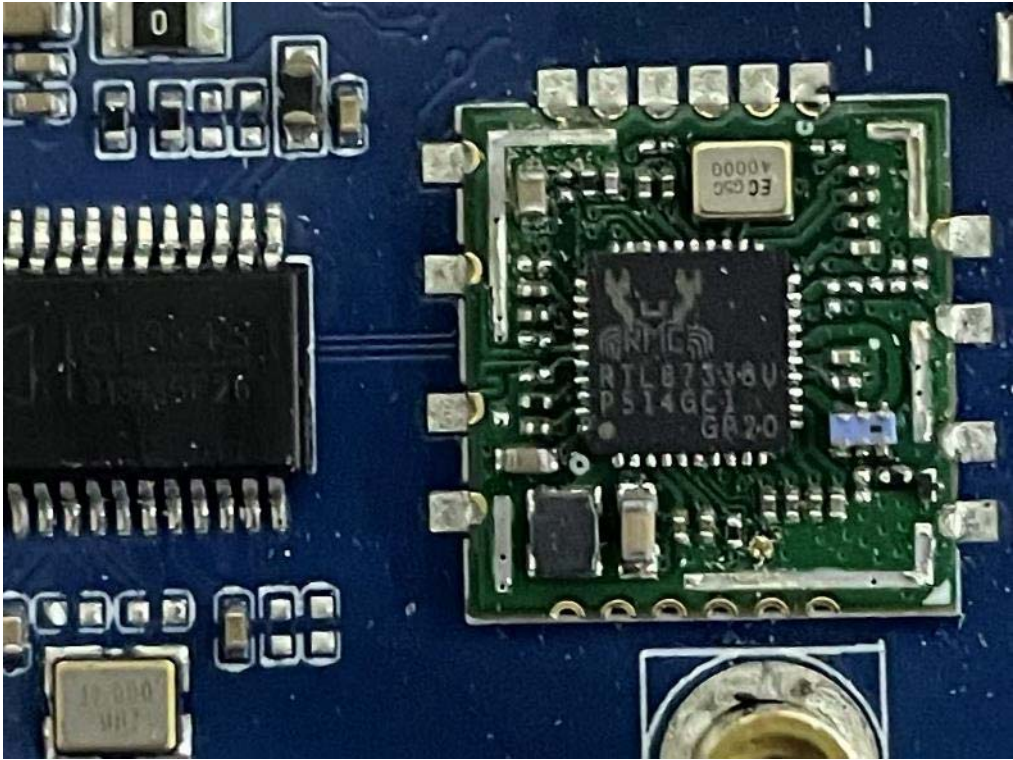
Internal-12 of the sample (Remove the module shielding cover)

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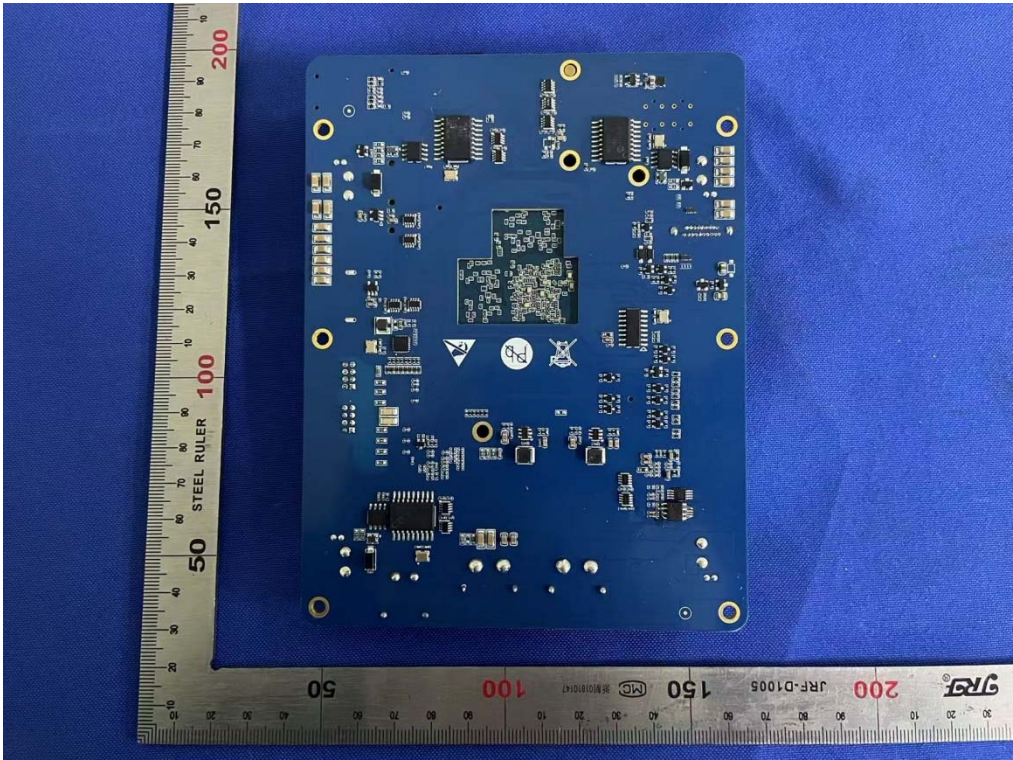
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Internal-13 of the sample



Internal-14 of the sample

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Internal-15 of the sample



Battery of the sample

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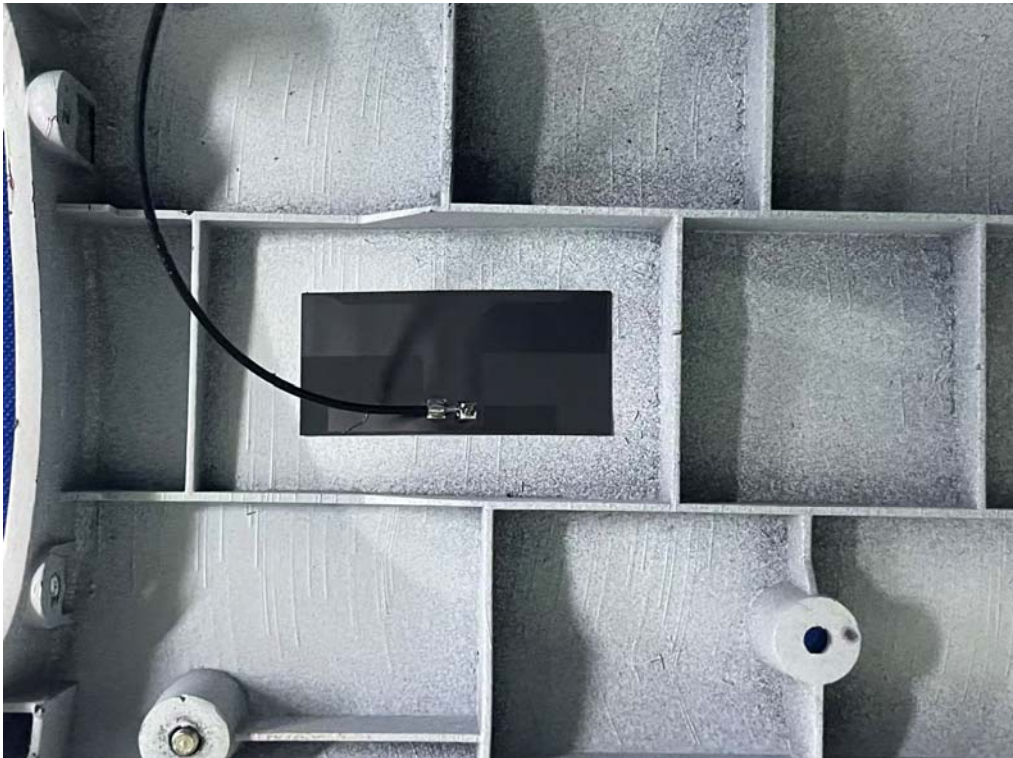
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Power Unit



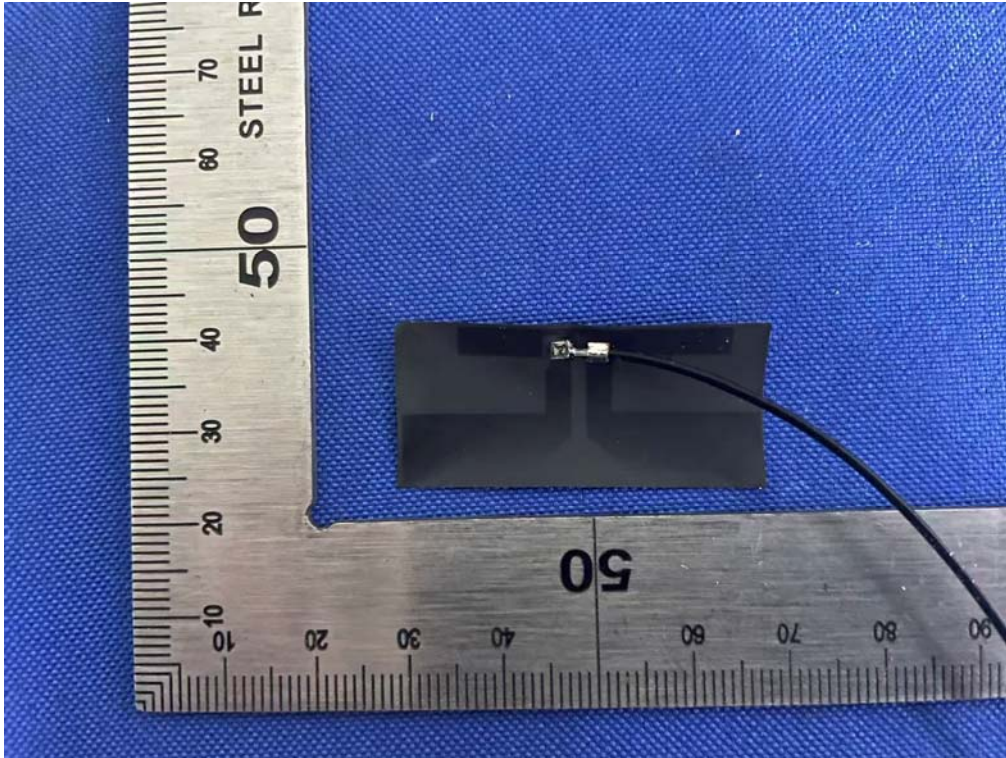
Antenna Position

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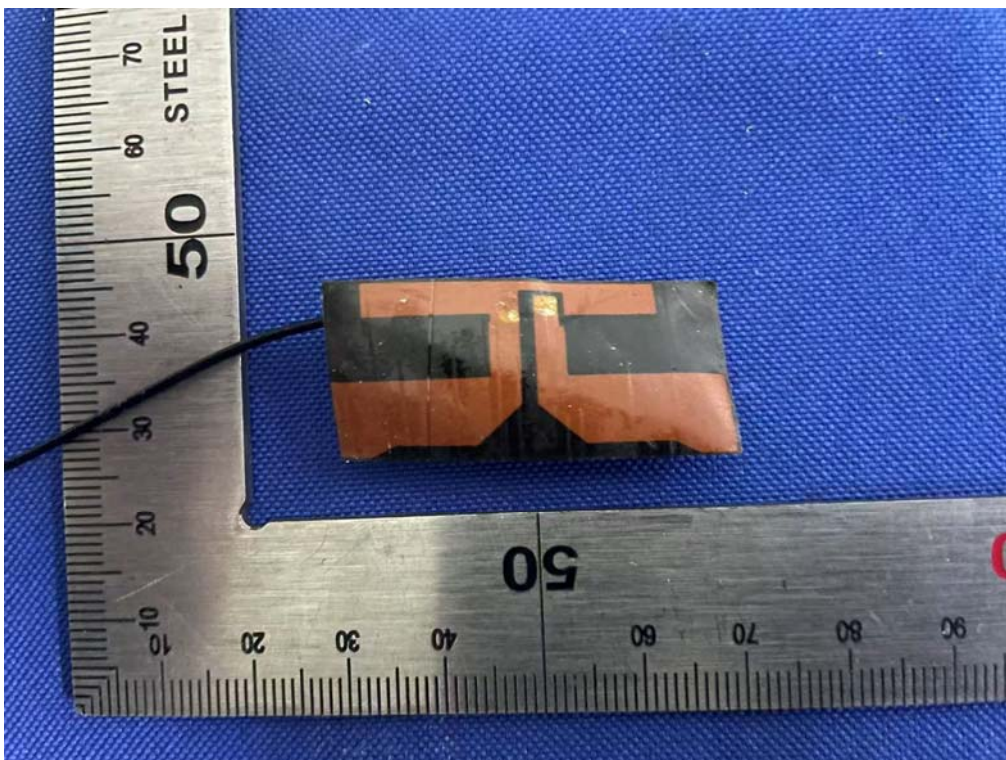
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Antenna Photo-Front



Antenna-Back

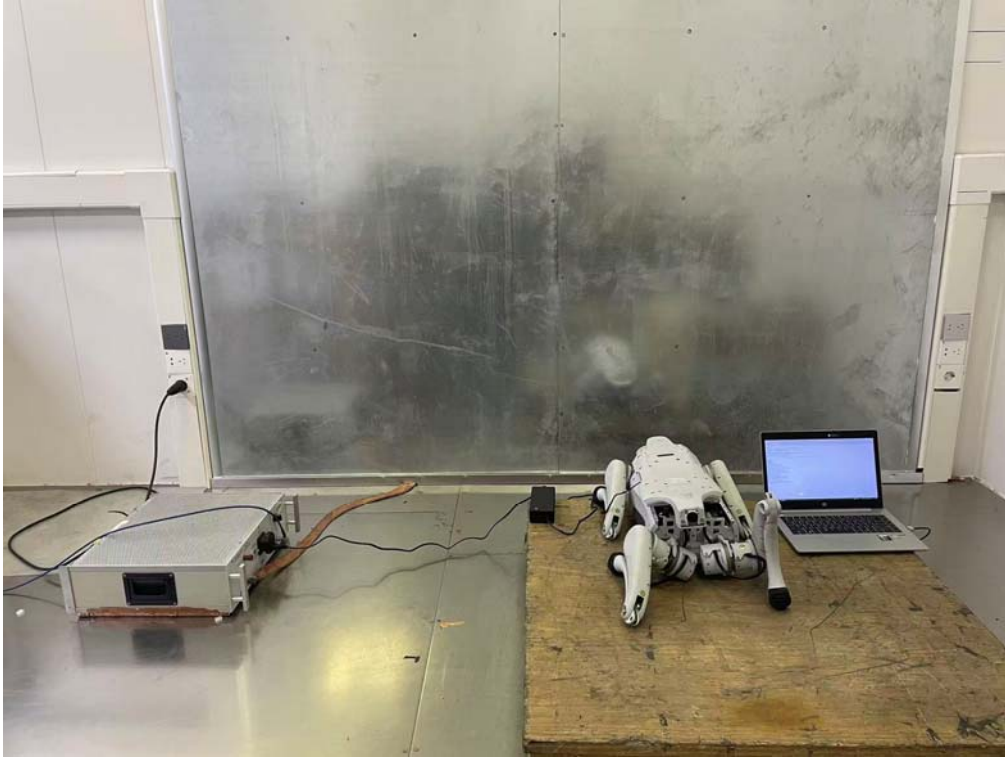
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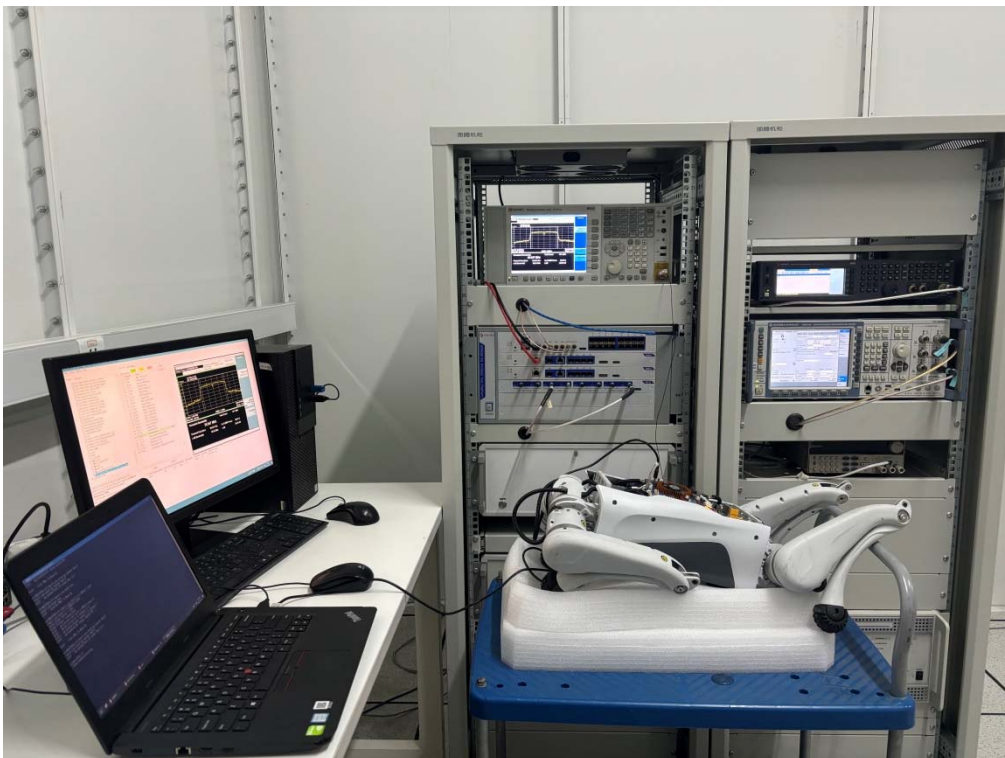
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5.3 Set-up for Conducted Emissions



5.4 Set-up for Conducted RF test at Antenna Port



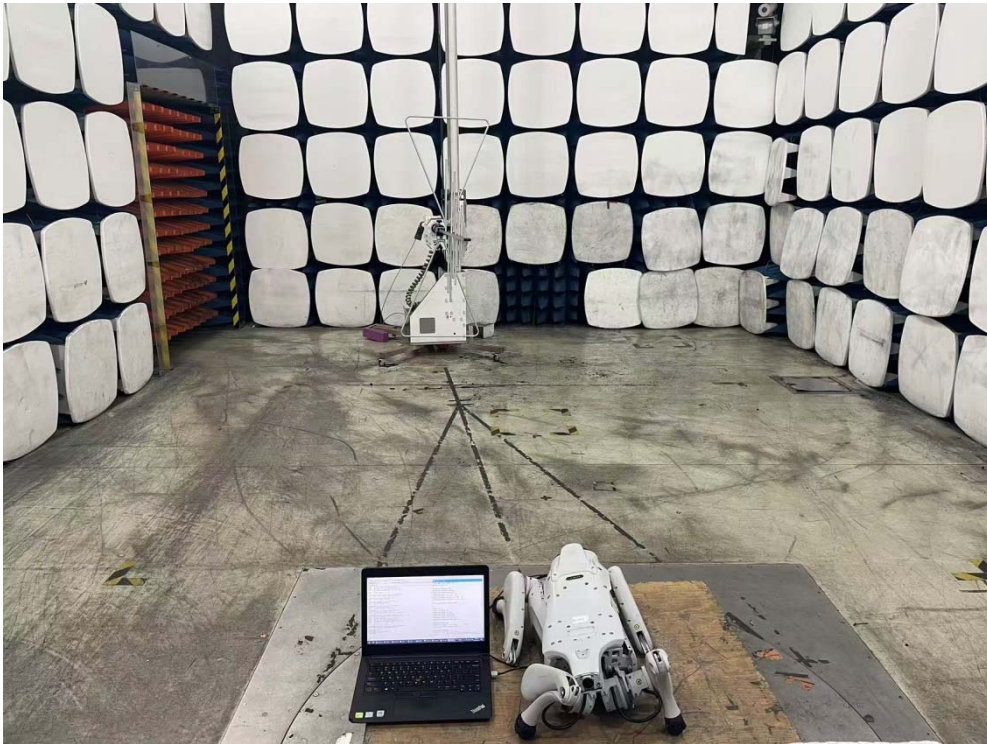
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5.5 Set-up for Spurious Emissions below 1GHz



5.6 Set-up for Spurious Emissions above 1GHz



End of the report