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Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



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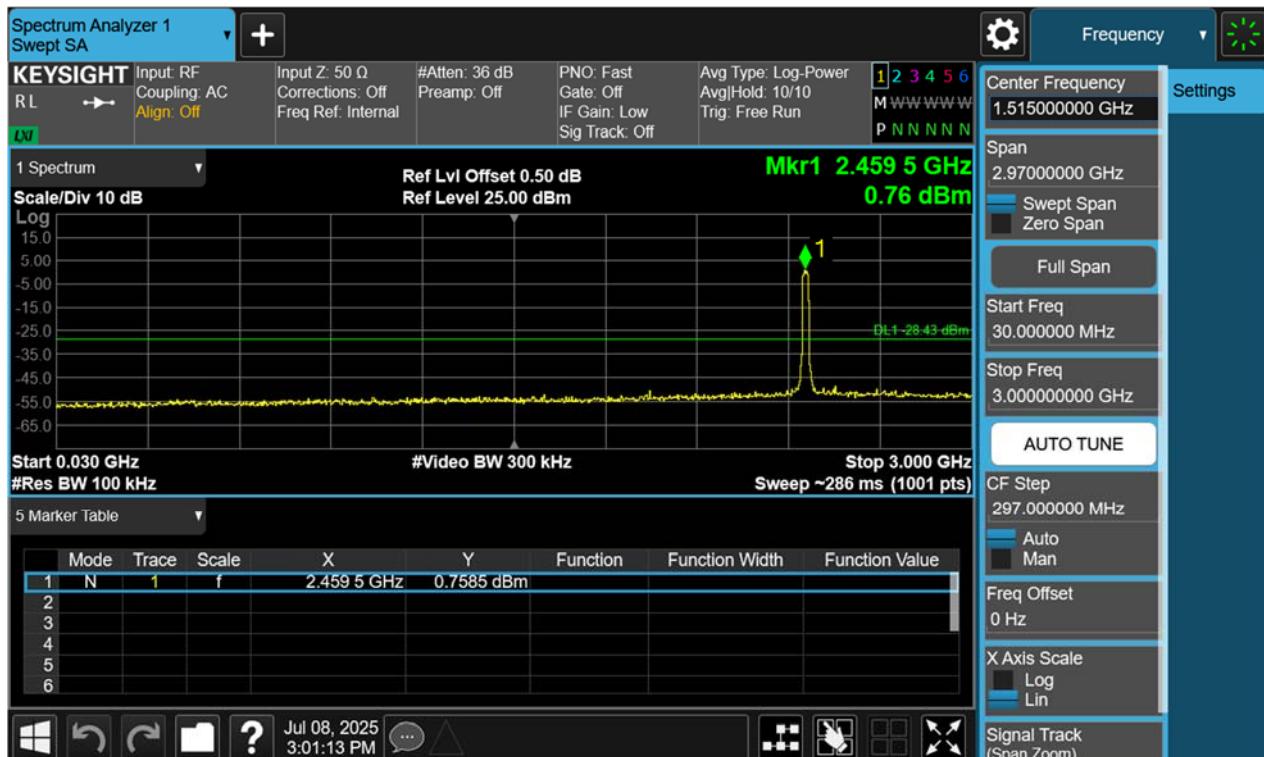
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



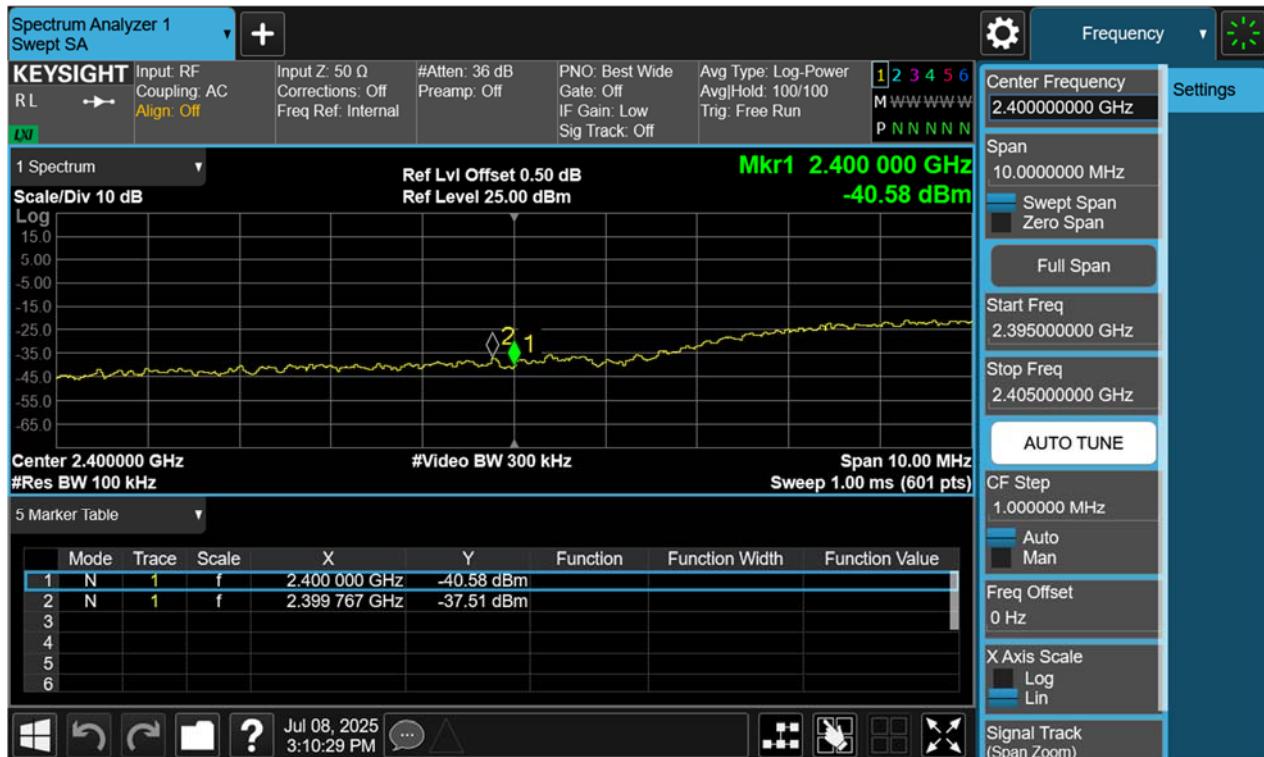
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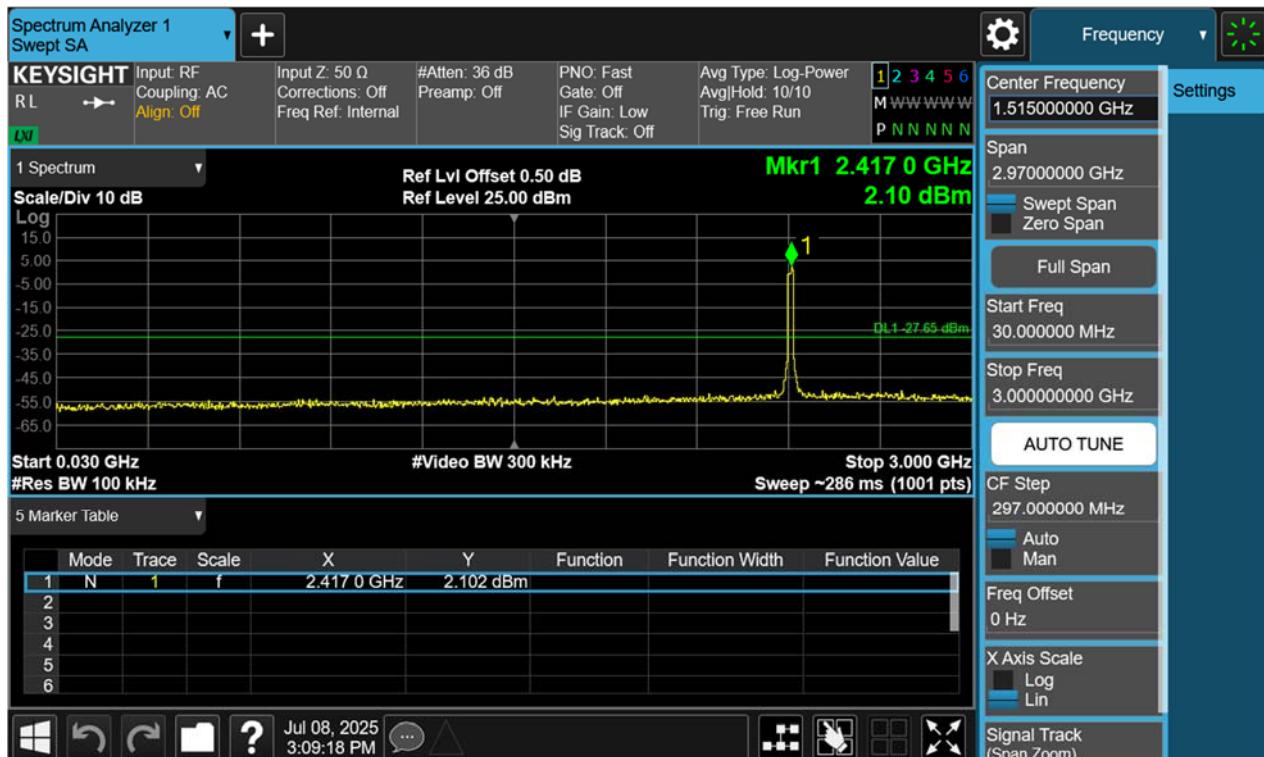
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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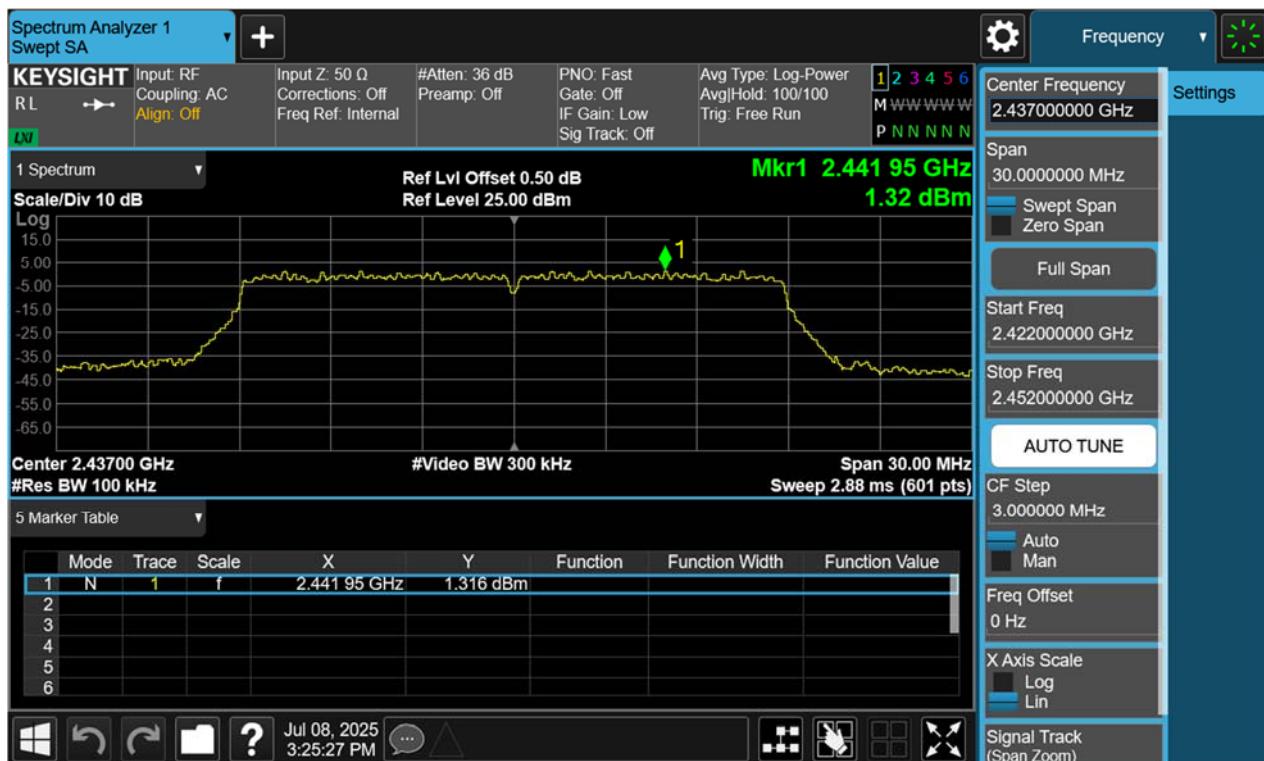
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Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



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Conducted spurious emissions 30MHz-25GHz



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Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



Band Edge



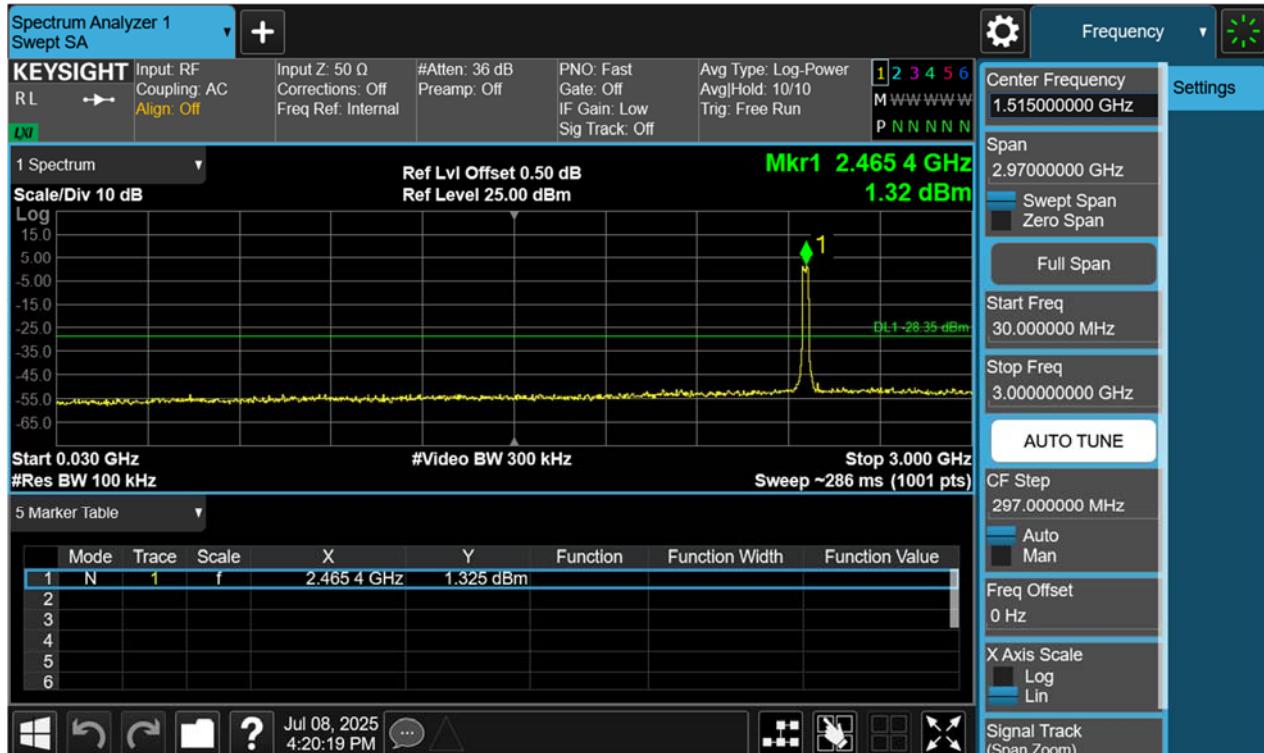
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	:	FCC Part 15.247(d), 15.205, 15.209
Requirement	:	ANSI C63.10-2013, Clause 11.12
Kind of test site	:	KDB 558074 D01 v05r02, Clause 8.6

Test setup

Test Channel	:	Low/Middle/High
Operation Mode	:	A.1.a
Ambient temperature	:	24.8°C ~25.2°C
Relative humidity	:	45%~49%

Notes

Test plots please refer to the annex document "SHE25060038-01CE 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 high channel of below 1 GHz (Supply by Power Adapter) 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 C63.10-2013, Clause 11.13 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	:	24.8°C
Relative humidity	:	45%

Notes:

1. Test plots please refer to the annex document "SHE25060038-01CE 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 C63.10-2013, Clause 6.2
Kind of test site : Shielded room

Test setup

Input Voltage : DC 5V supply by Power adapter (which received AC 120V, 60Hz)
Operation Mode : A.1.a
Earthing : Disconnected to GND
Ambient temperature : 23.1°C
Relative humidity : 40%

For details refer to following test plot.

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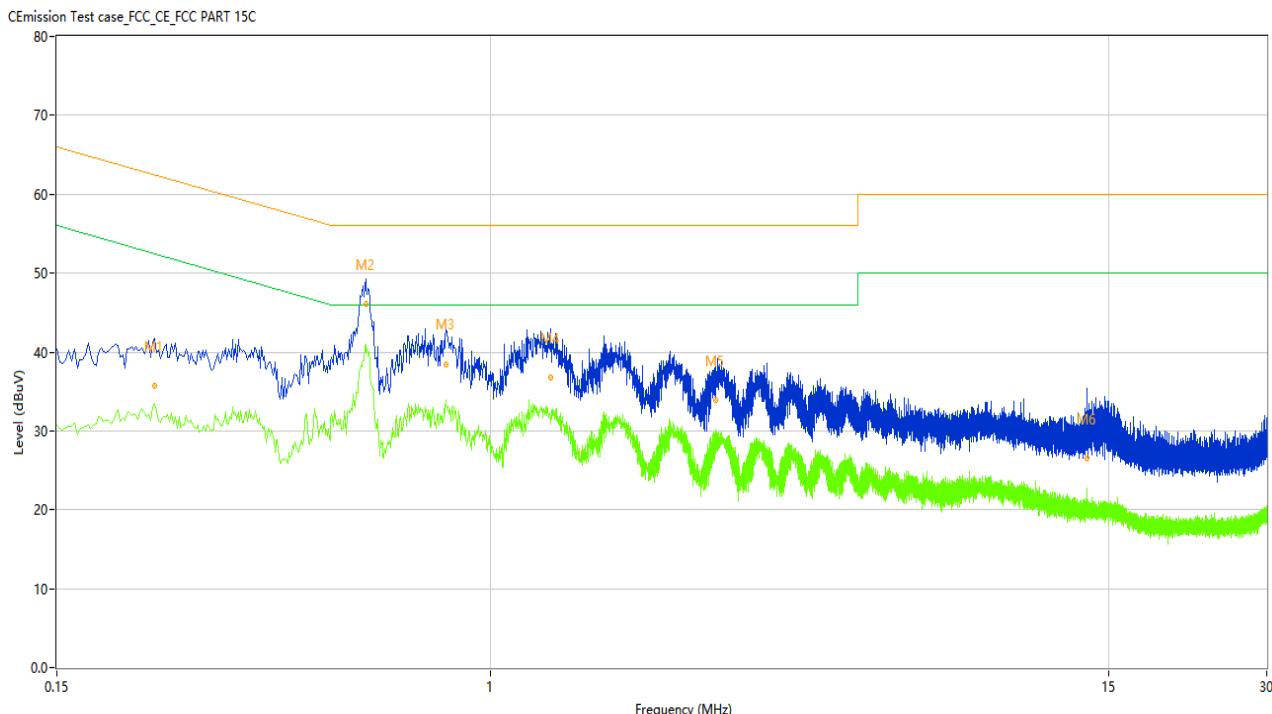
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Note: All test modes had been pre-tested, but only the 802.11b at high channel is the worst case and recorded in the report.

Figure 28: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.230	40.91	10.22	62.45	21.54	Peak	L	Pass
1*	0.230	35.66	10.22	62.45	26.79	QP	L	Pass
1**	0.230	33.39	10.22	52.45	19.06	AV	L	Pass
2	0.580	50.10	10.20	56.00	5.90	Peak	L	Pass
2*	0.580	46.17	10.20	56.00	9.83	QP	L	Pass
2**	0.580	40.92	10.20	46.00	5.08	AV	L	Pass
3	0.824	44.67	10.17	56.00	11.33	Peak	L	Pass
3*	0.824	38.40	10.17	56.00	17.60	QP	L	Pass
3**	0.824	33.92	10.17	46.00	12.08	AV	L	Pass
4	1.306	41.42	10.01	56.00	14.58	Peak	L	Pass
4*	1.306	36.77	10.01	56.00	19.23	QP	L	Pass
4**	1.306	30.88	10.01	46.00	15.12	AV	L	Pass
5	2.680	38.63	10.08	56.00	17.37	Peak	L	Pass
5*	2.680	33.96	10.08	56.00	22.04	QP	L	Pass
5**	2.680	28.44	10.08	46.00	17.56	AV	L	Pass
6	13.668	35.74	10.52	60.00	24.26	Peak	L	Pass
6*	13.668	26.48	10.52	60.00	33.52	QP	L	Pass
6**	13.668	22.35	10.52	50.00	27.65	AV	L	Pass

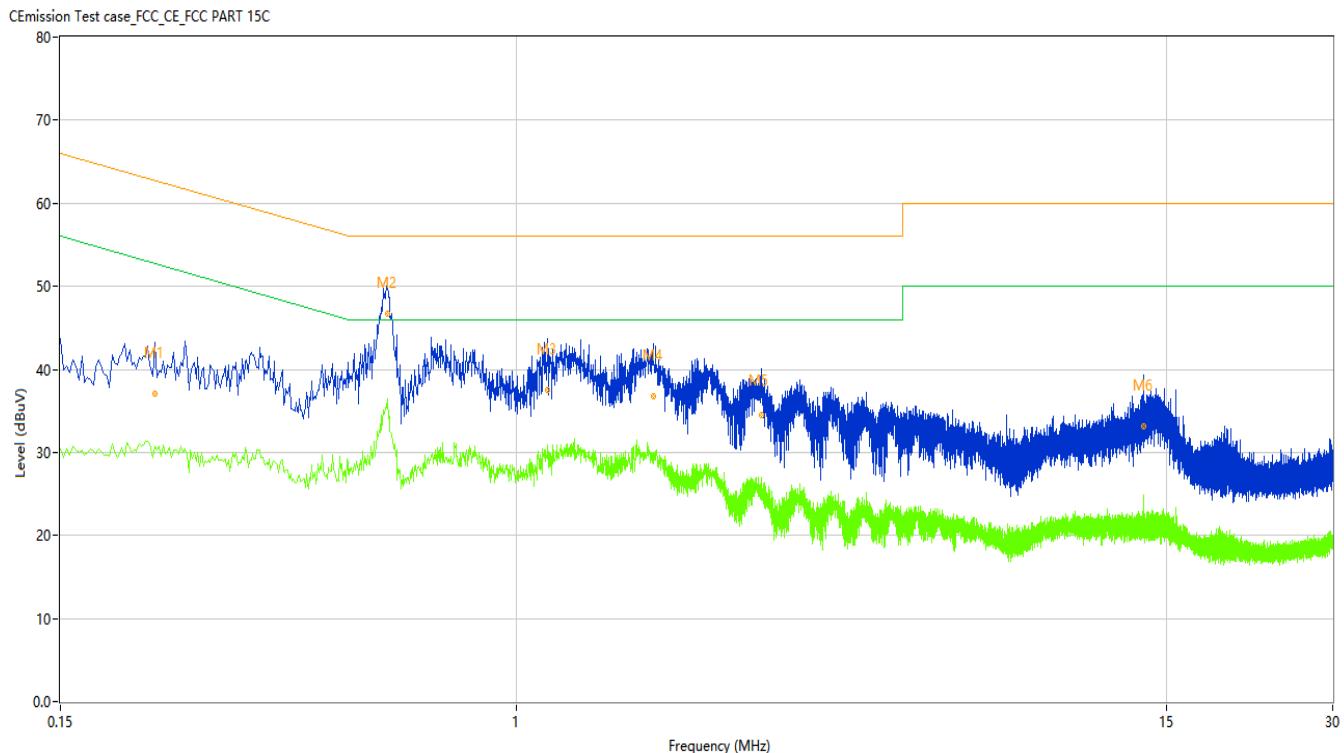
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Figure 29: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.222	42.23	10.16	62.74	20.51	Peak	N	Pass
1*	0.222	37.11	10.16	62.74	25.63	QP	N	Pass
1**	0.222	30.71	10.16	52.74	22.03	AV	N	Pass
2	0.586	50.99	10.06	56.00	5.01	Peak	N	Pass
2*	0.586	46.78	10.06	56.00	9.22	QP	N	Pass
2**	0.586	36.38	10.06	46.00	9.62	AV	N	Pass
3	1.142	42.84	9.84	56.00	13.16	Peak	N	Pass
3*	1.142	37.56	9.84	56.00	18.44	QP	N	Pass
3**	1.142	30.86	9.84	46.00	15.14	AV	N	Pass
4	1.774	41.91	9.96	56.00	14.09	Peak	N	Pass
4*	1.774	36.71	9.96	56.00	19.29	QP	N	Pass
4**	1.774	29.04	9.96	46.00	16.96	AV	N	Pass
5	2.776	39.22	10.08	56.00	16.78	Peak	N	Pass
5*	2.776	34.44	10.08	56.00	21.56	QP	N	Pass
5**	2.776	27.03	10.08	46.00	18.97	AV	N	Pass
6	13.674	41.74	10.43	60.00	18.26	Peak	N	Pass
6*	13.674	33.13	10.43	60.00	26.87	QP	N	Pass
6**	13.674	23.75	10.43	50.00	26.25	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



All of the sample



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Rear of the sample



Left of the sample

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Right of the sample



Top of the sample

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Bottom of the sample



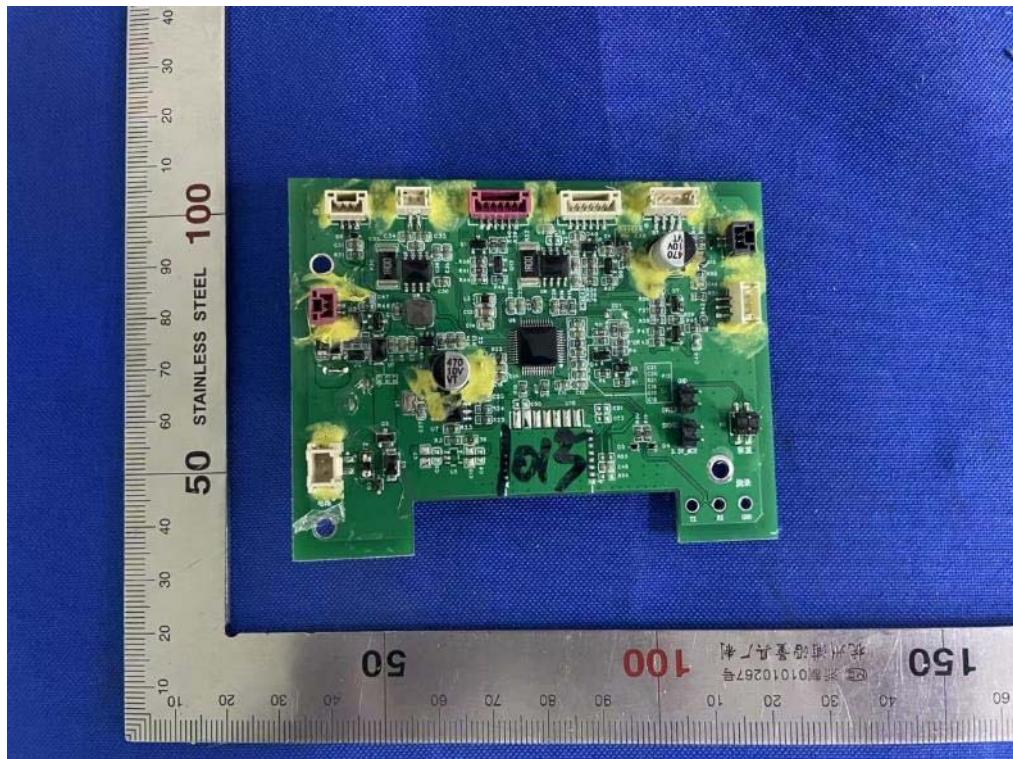
Open-1 of the sample

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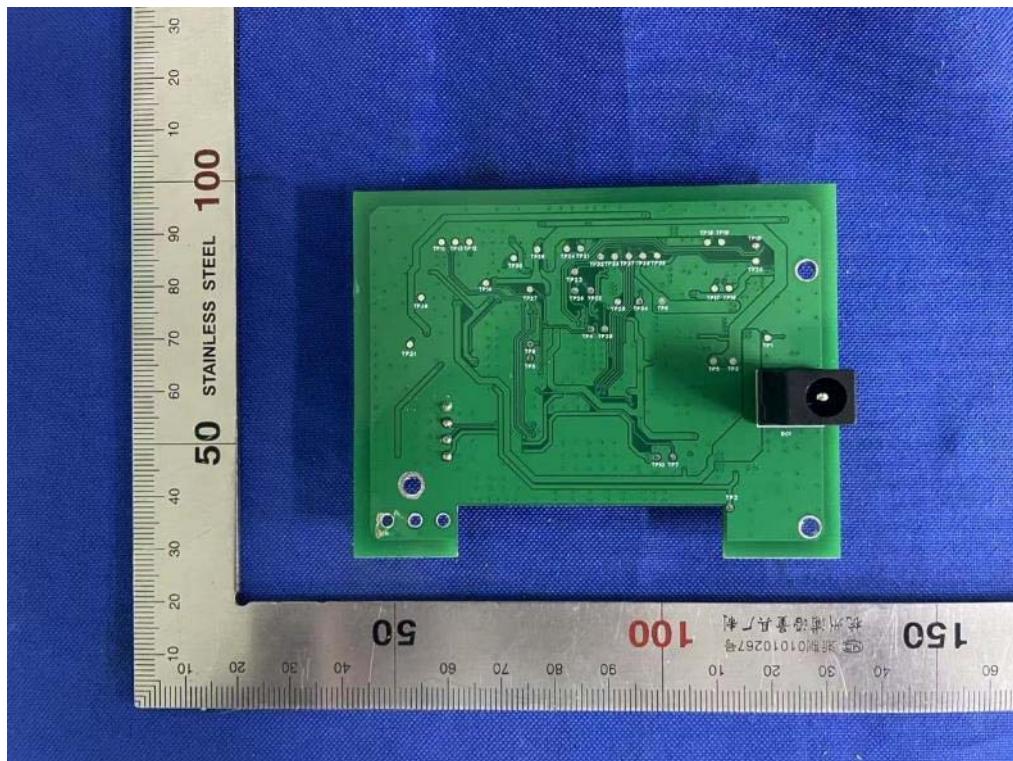
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Internal-1 of the sample



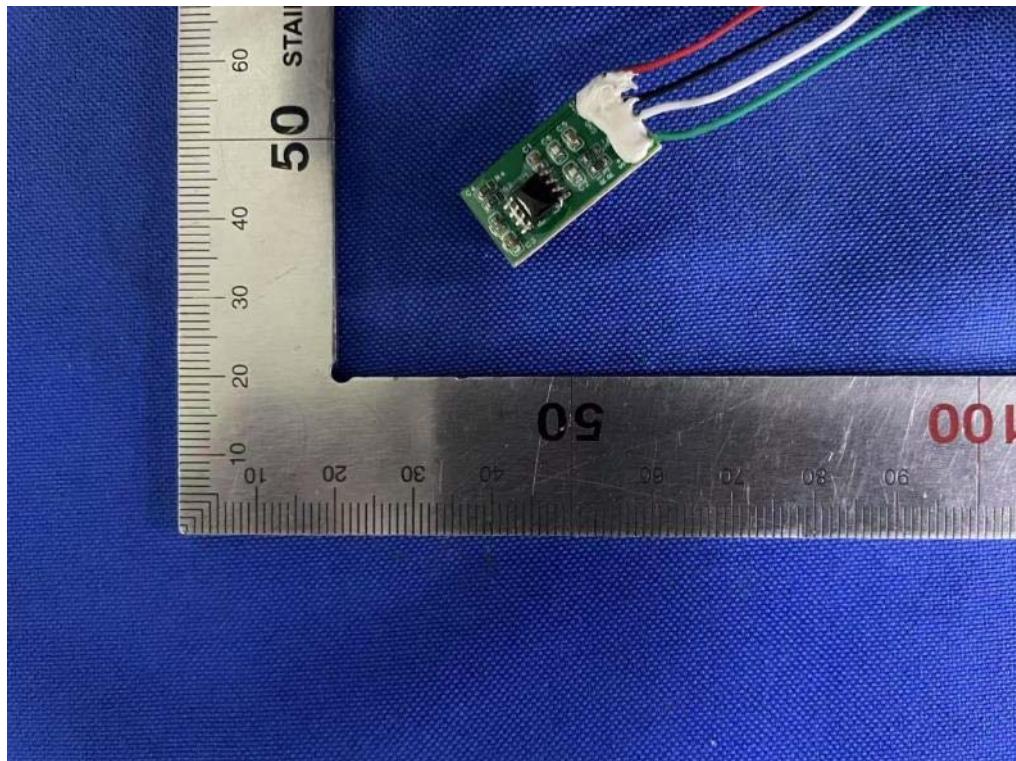
Internal-2 of the sample

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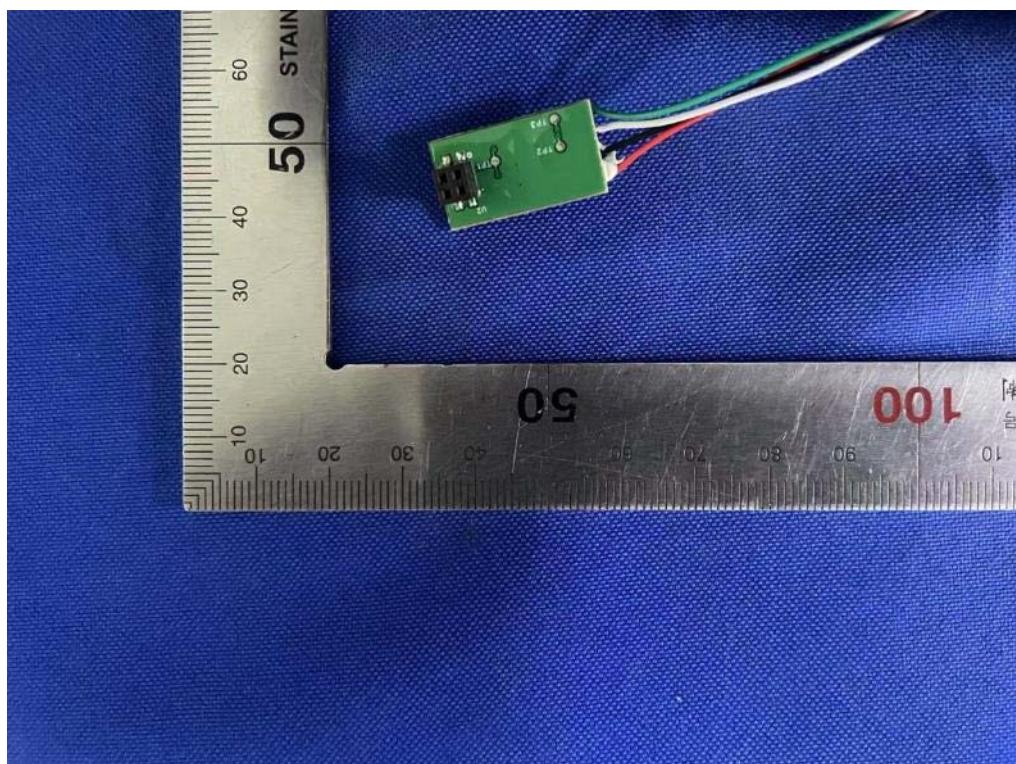
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Internal-3 of the sample



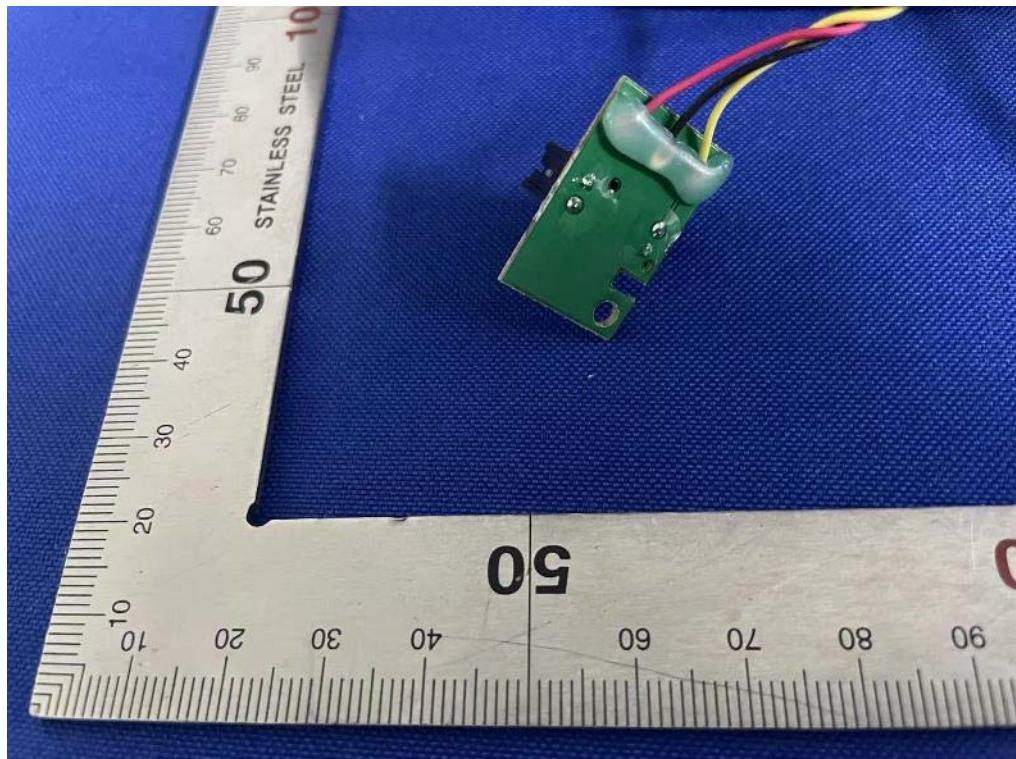
Internal-4 of the sample

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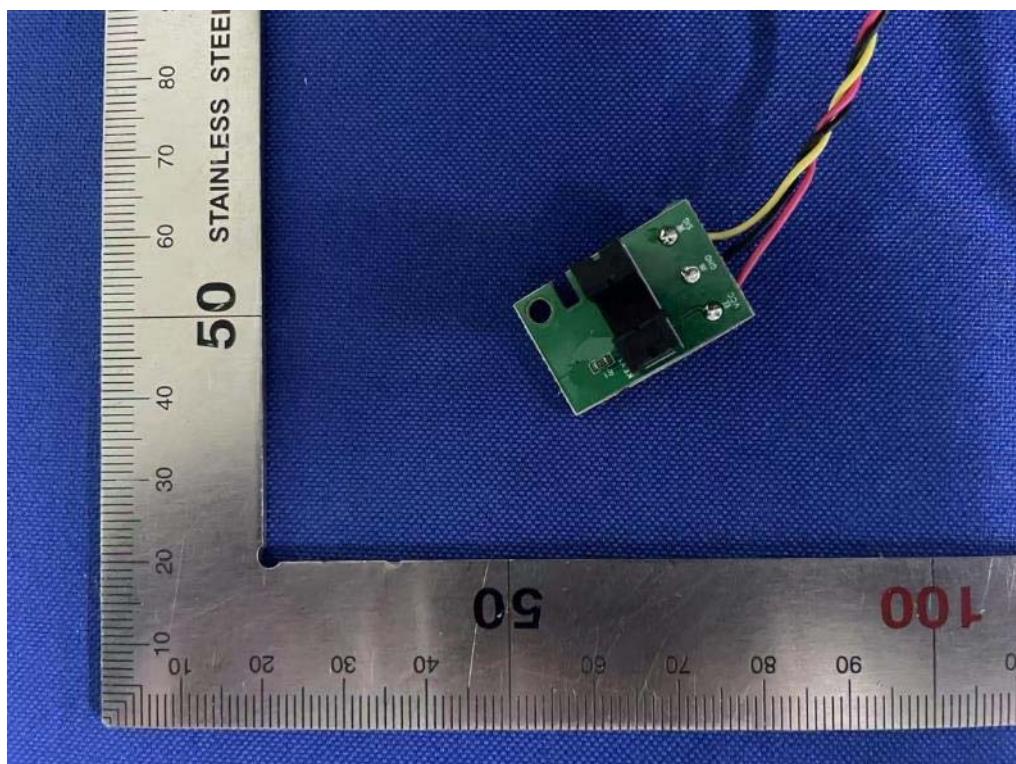
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Internal-5 of the sample



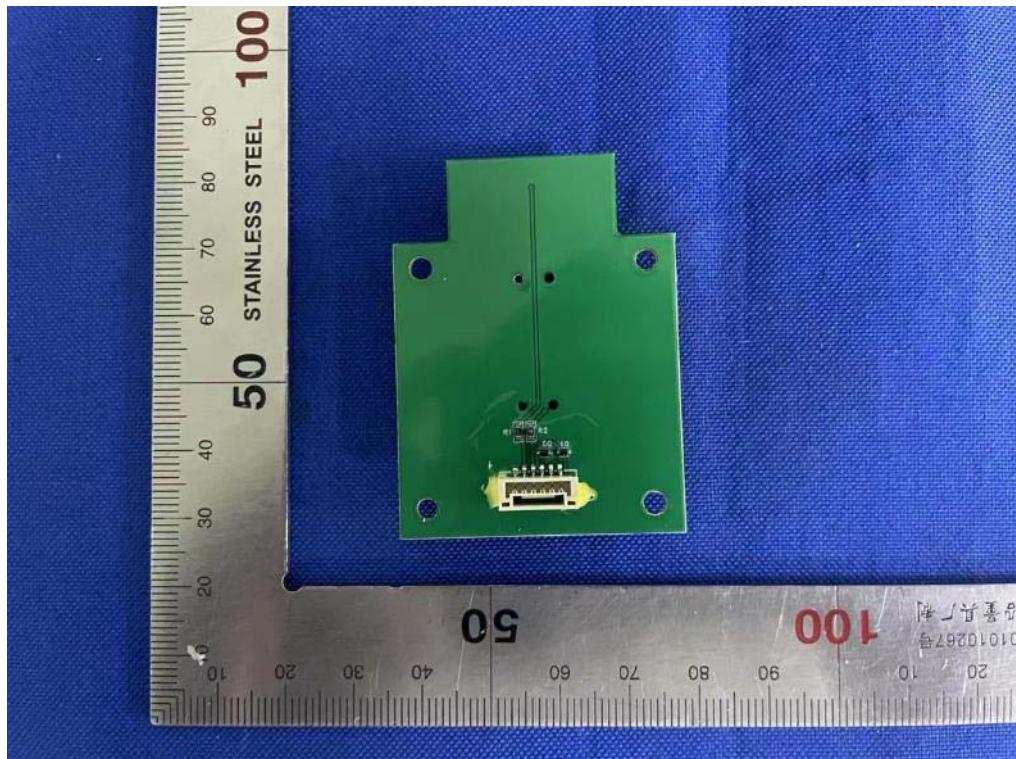
Internal-6 of the sample

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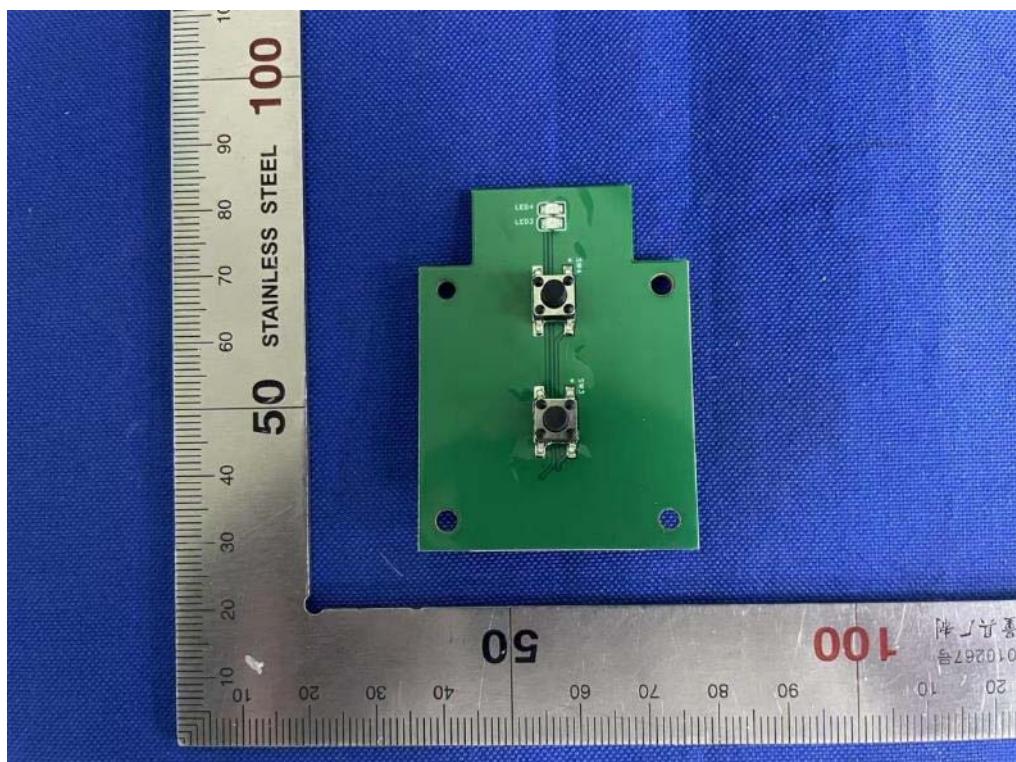
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Internal-7 of the sample



Internal-8 of the sample

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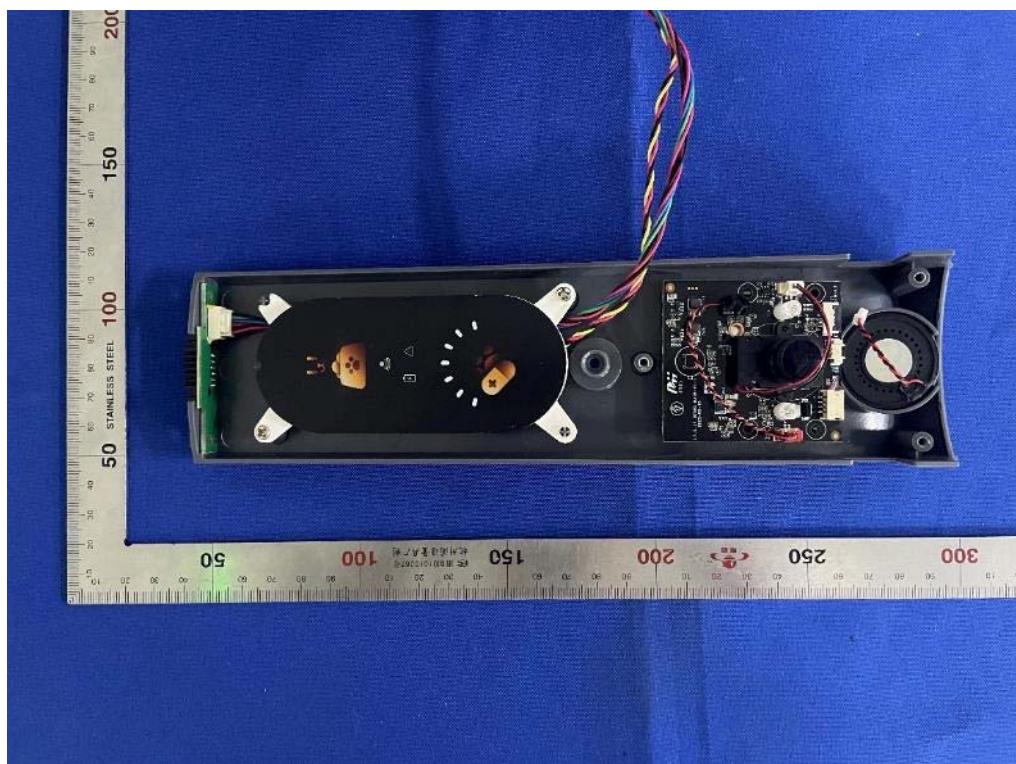
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Internal-9 of the sample



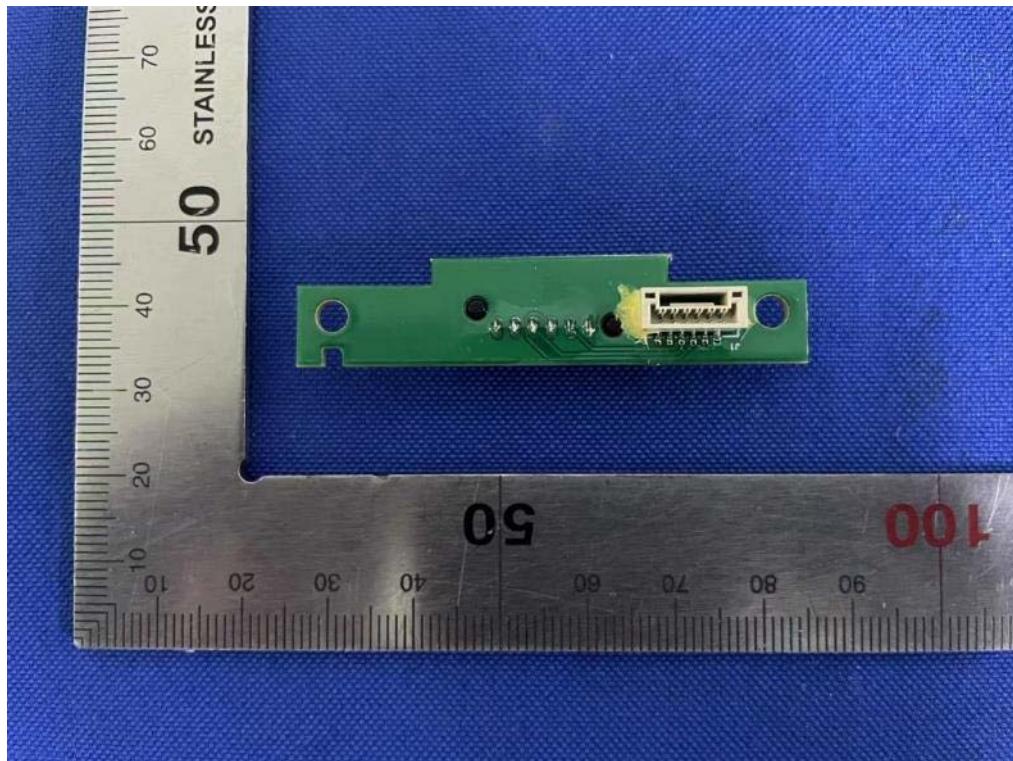
Internal-10 of the sample

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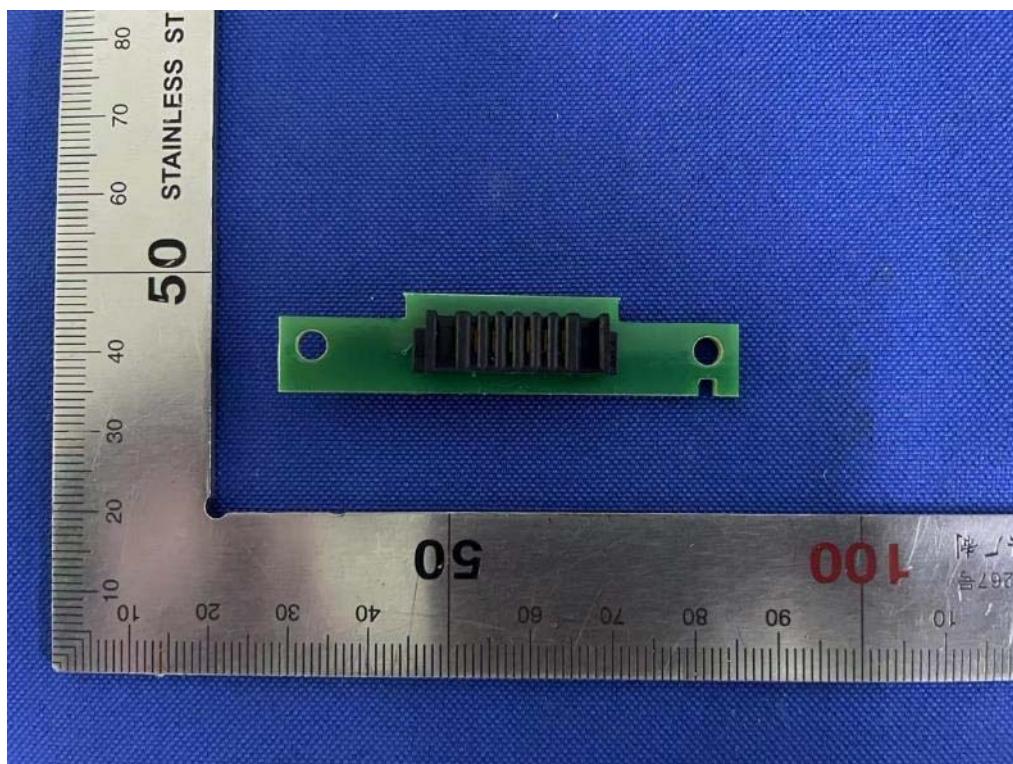
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Internal-11 of the sample



Internal-12 of the sample

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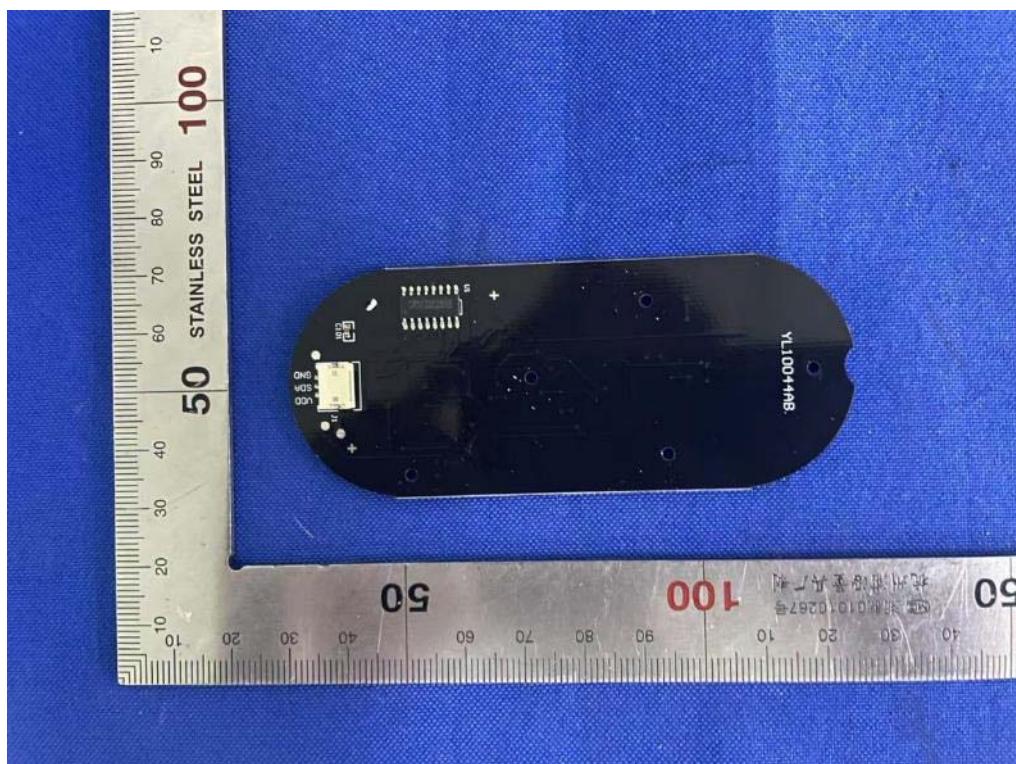
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Internal-13 of the sample



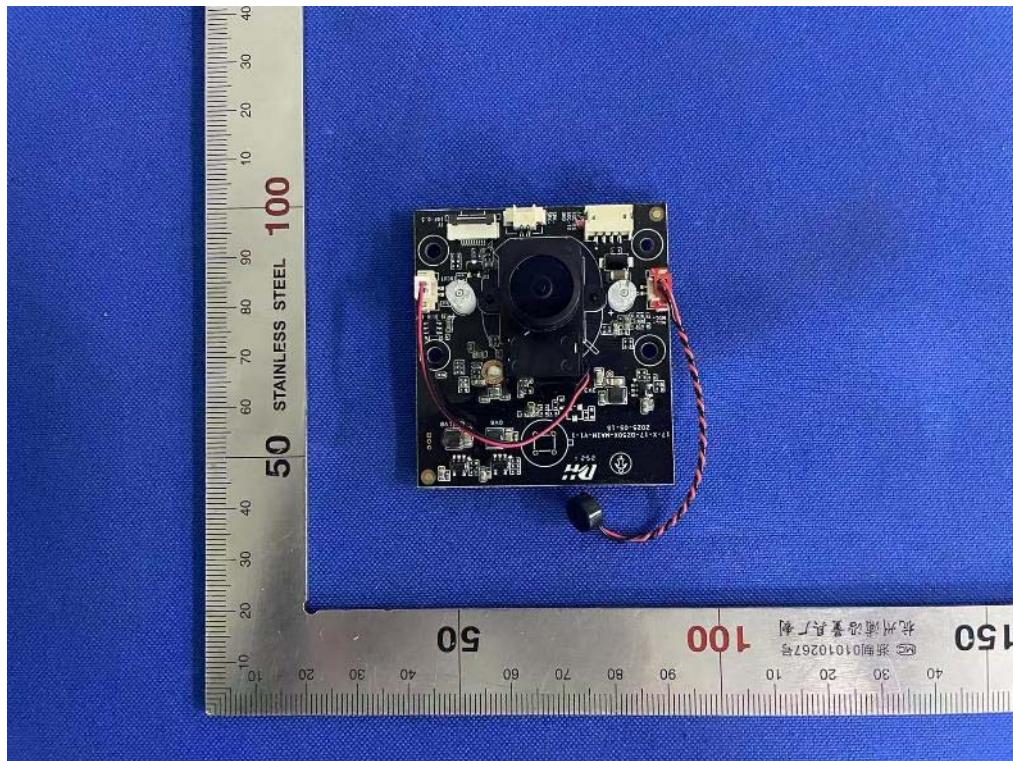
Internal-14 of the sample

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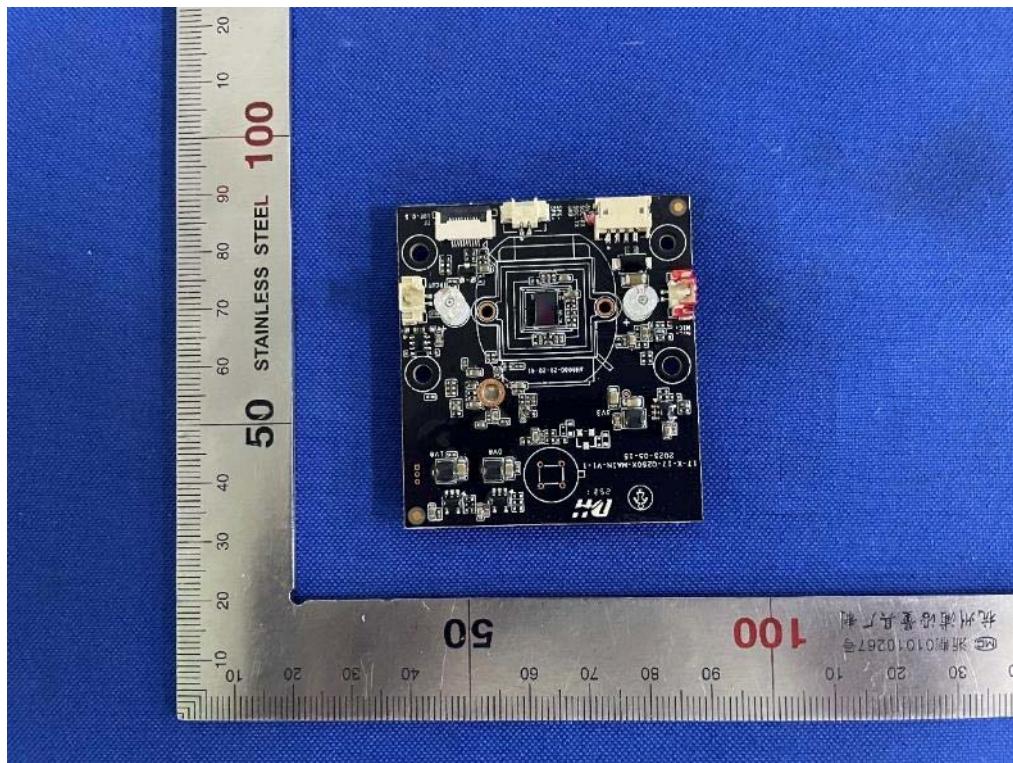
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Internal-15 of the sample



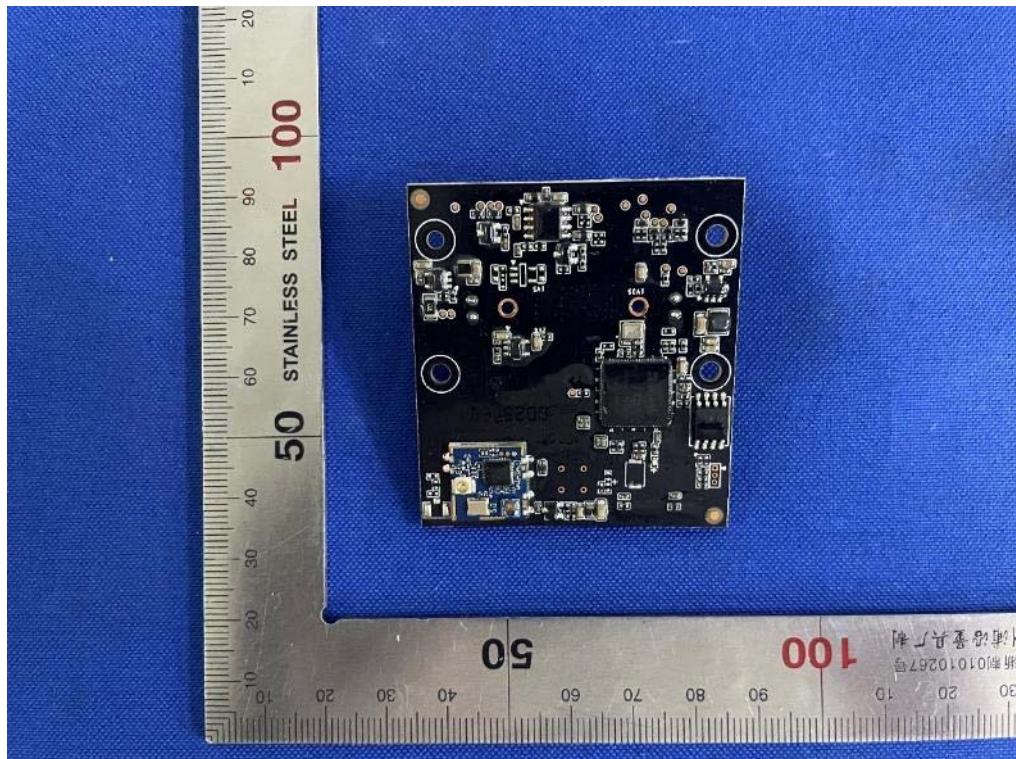
Internal-16 of the sample

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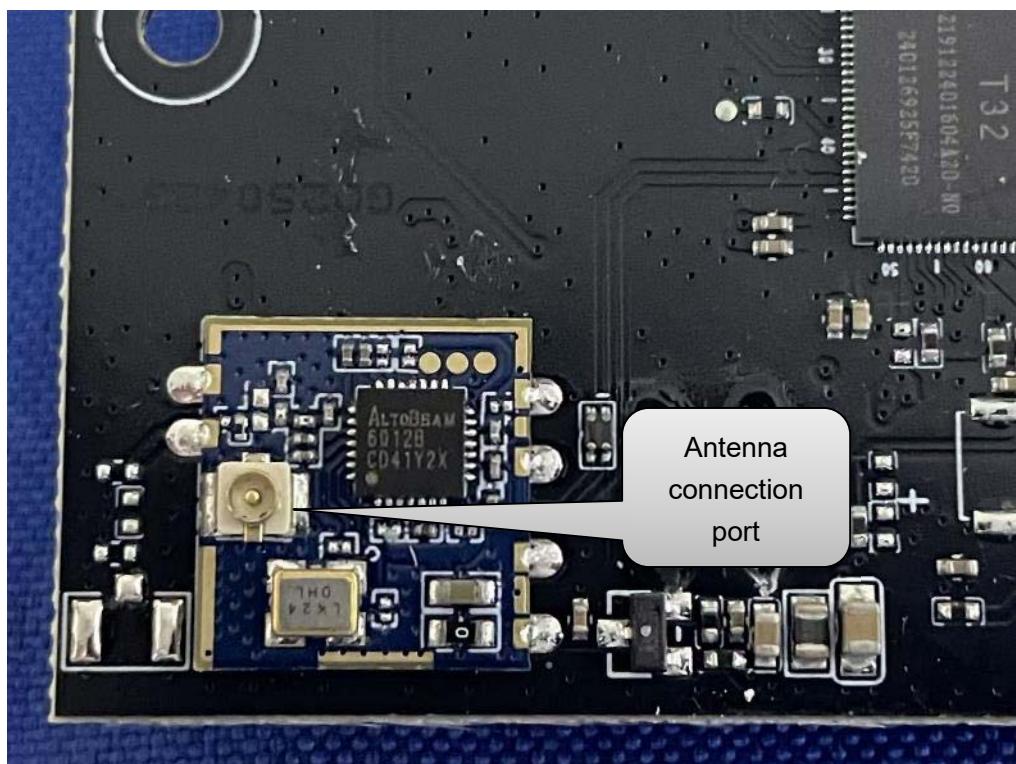
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Internal-17 of the sample



Antenna connection port

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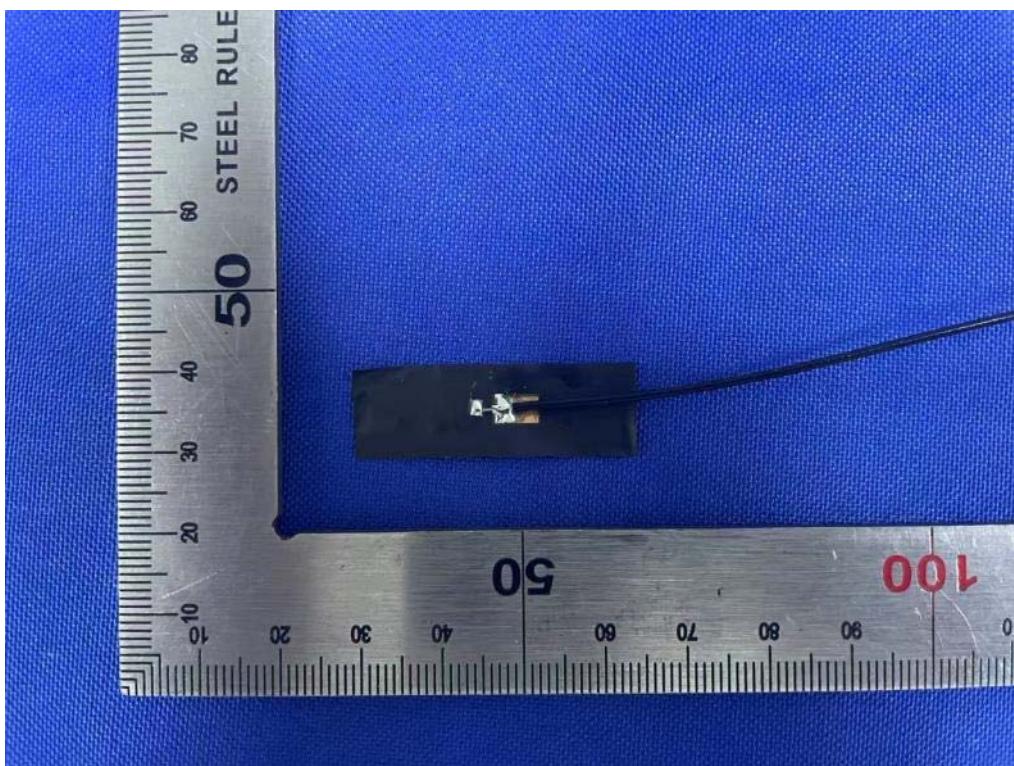
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Antenna Position



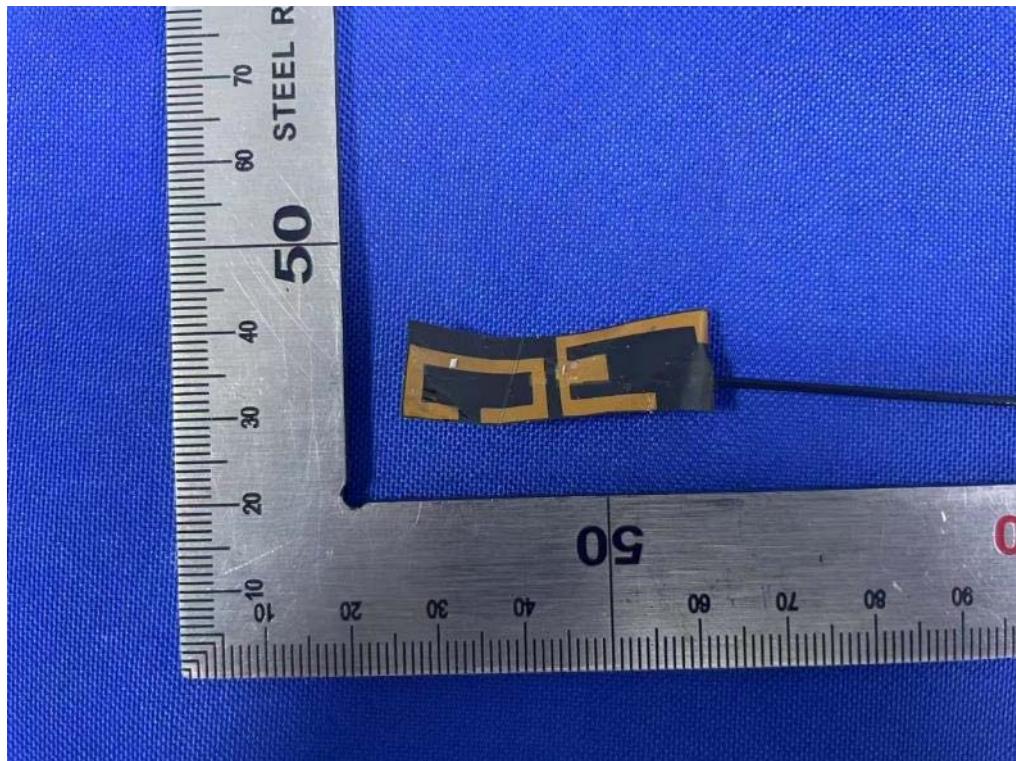
Antenna photo-1

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Antenna photo-2



Adapter-1

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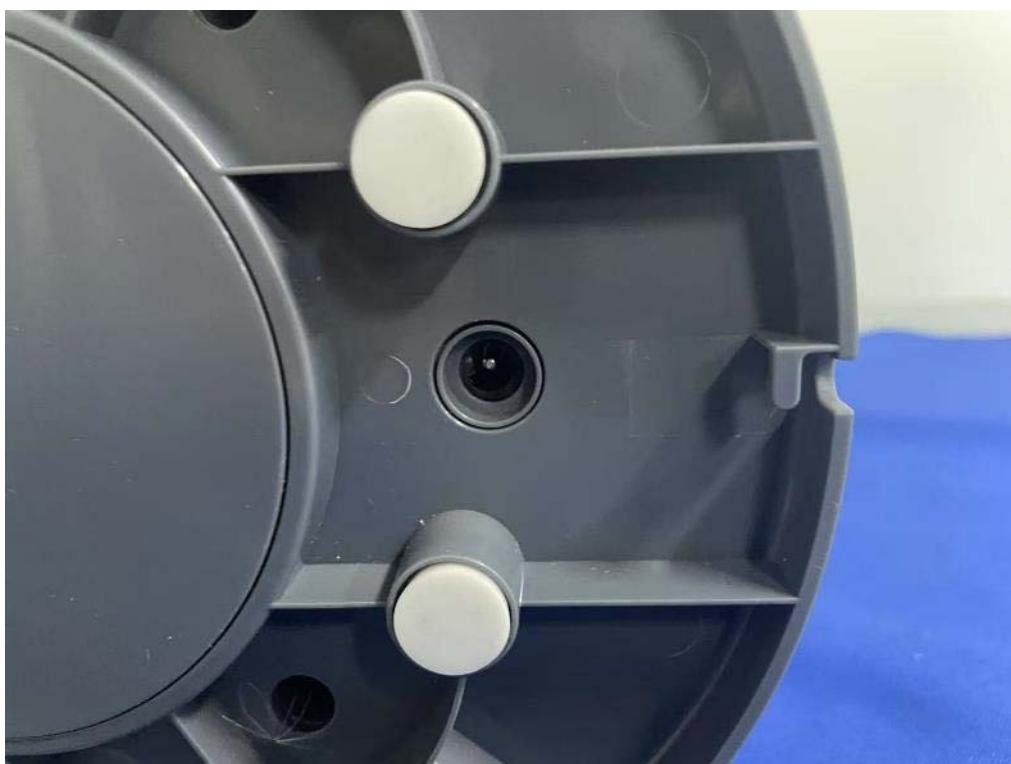
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Adapter-2



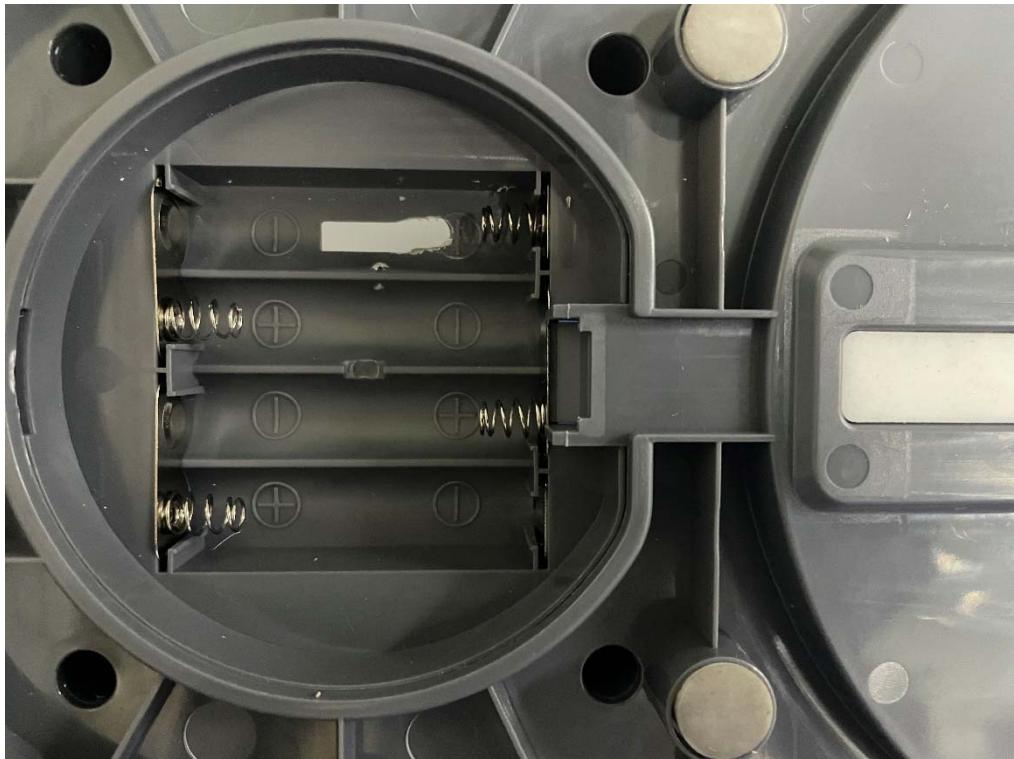
Power Port

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Battery Supply

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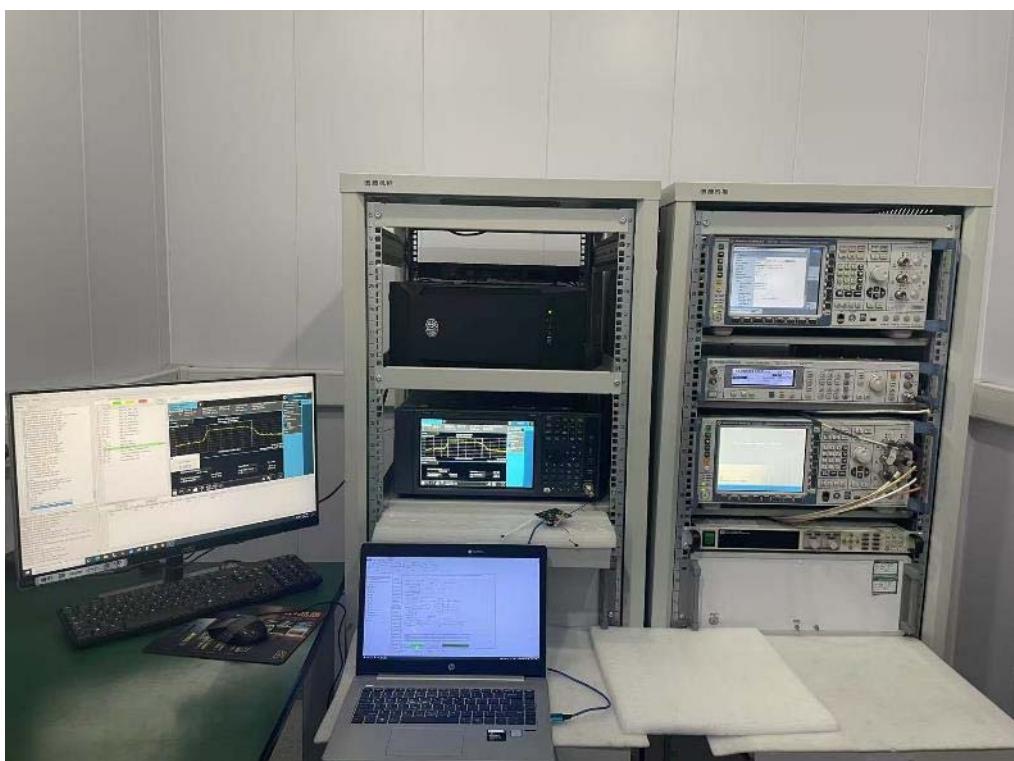
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5.2 Set-up for Conducted Emissions on AC Mains



5.3 Set-up for Conducted RF test at Antenna Port



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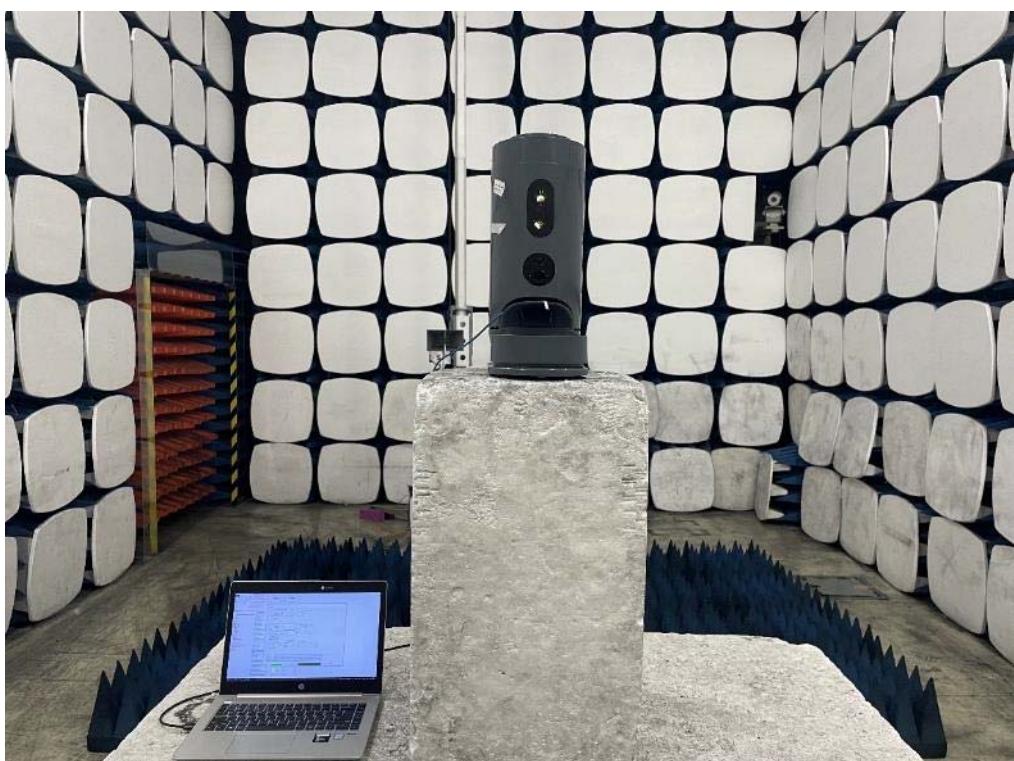
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report