

TEST REPORT

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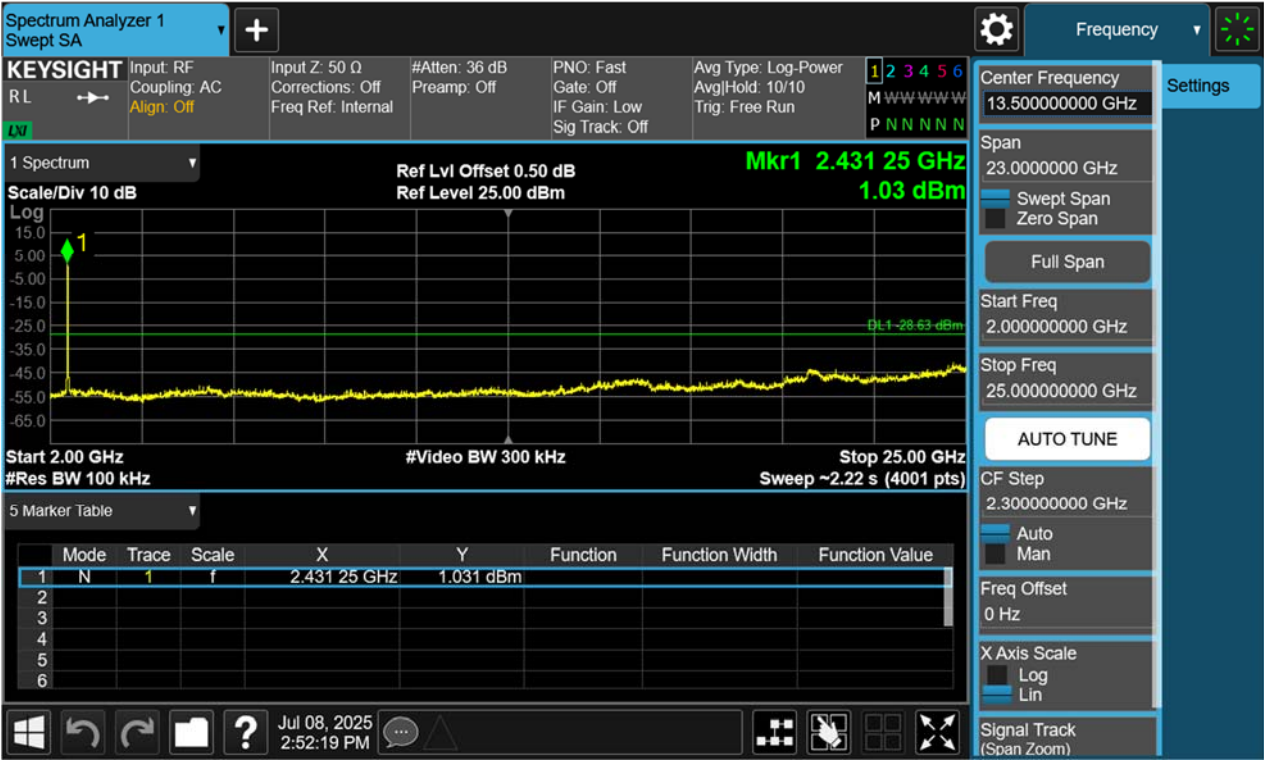
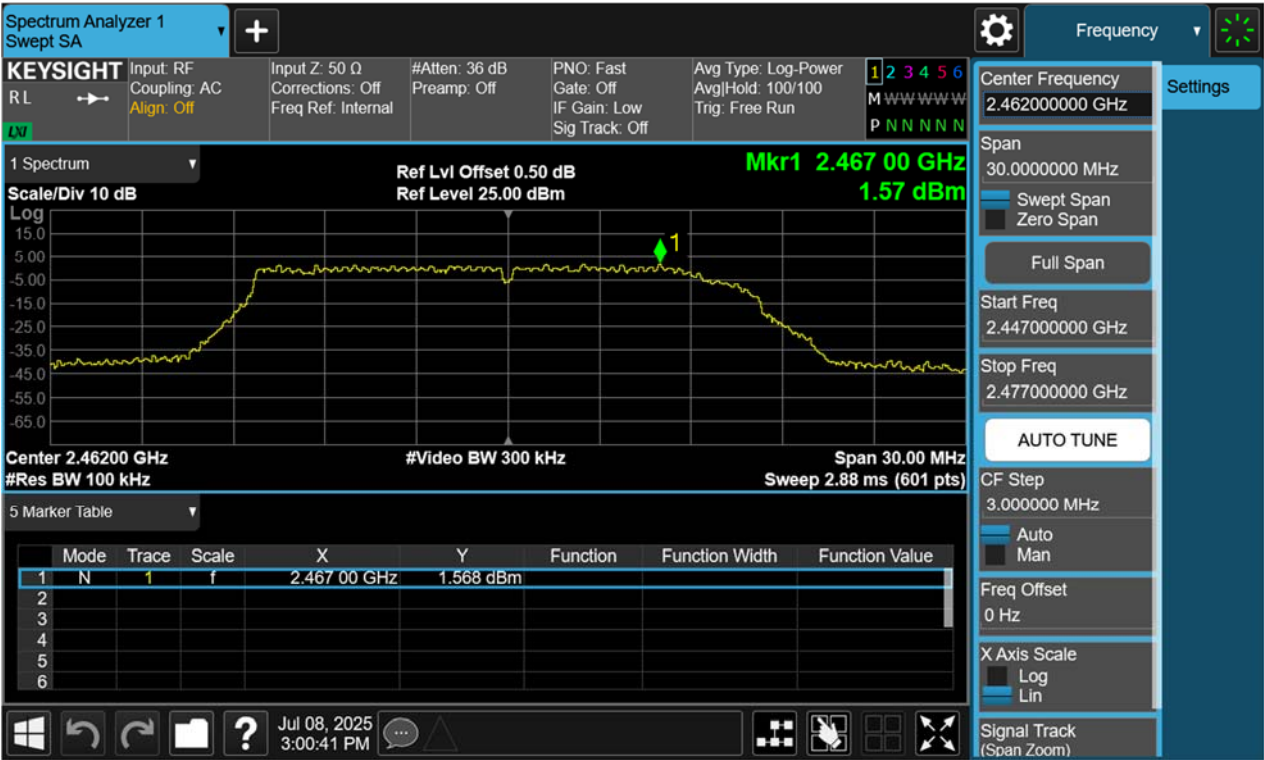


Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



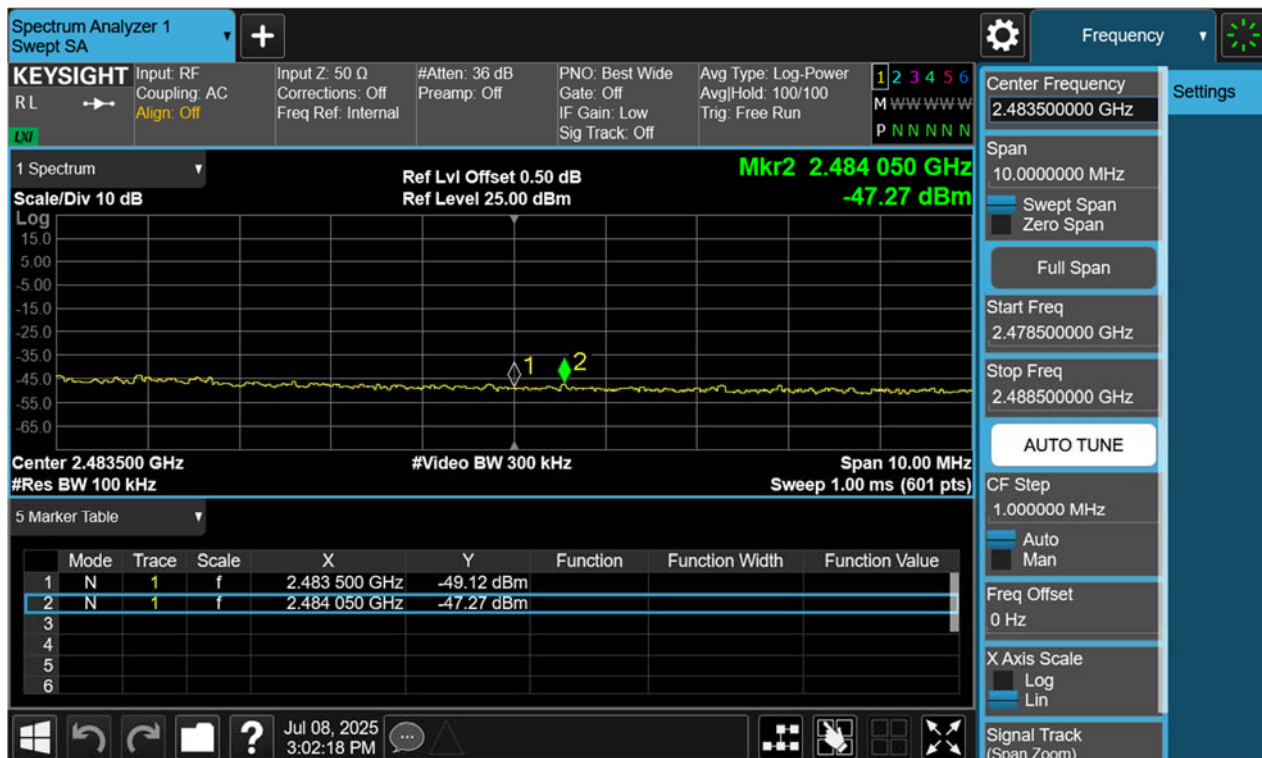
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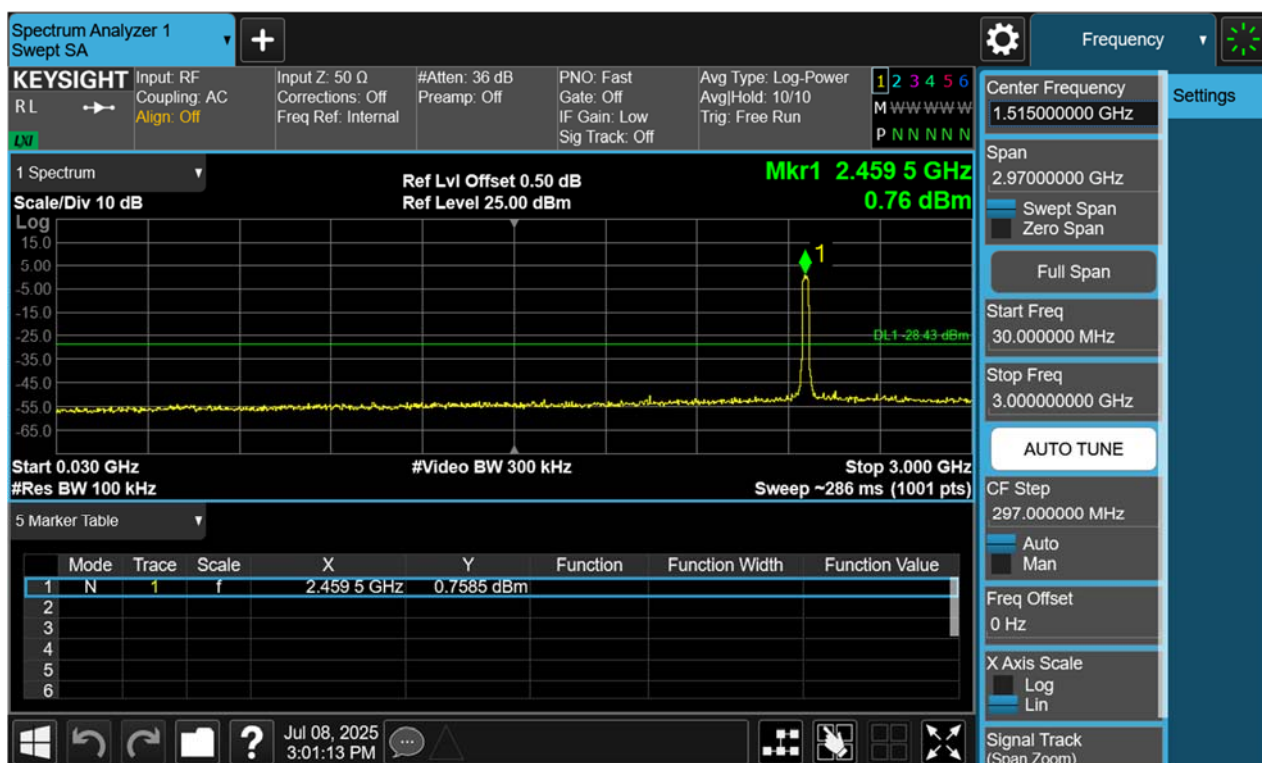
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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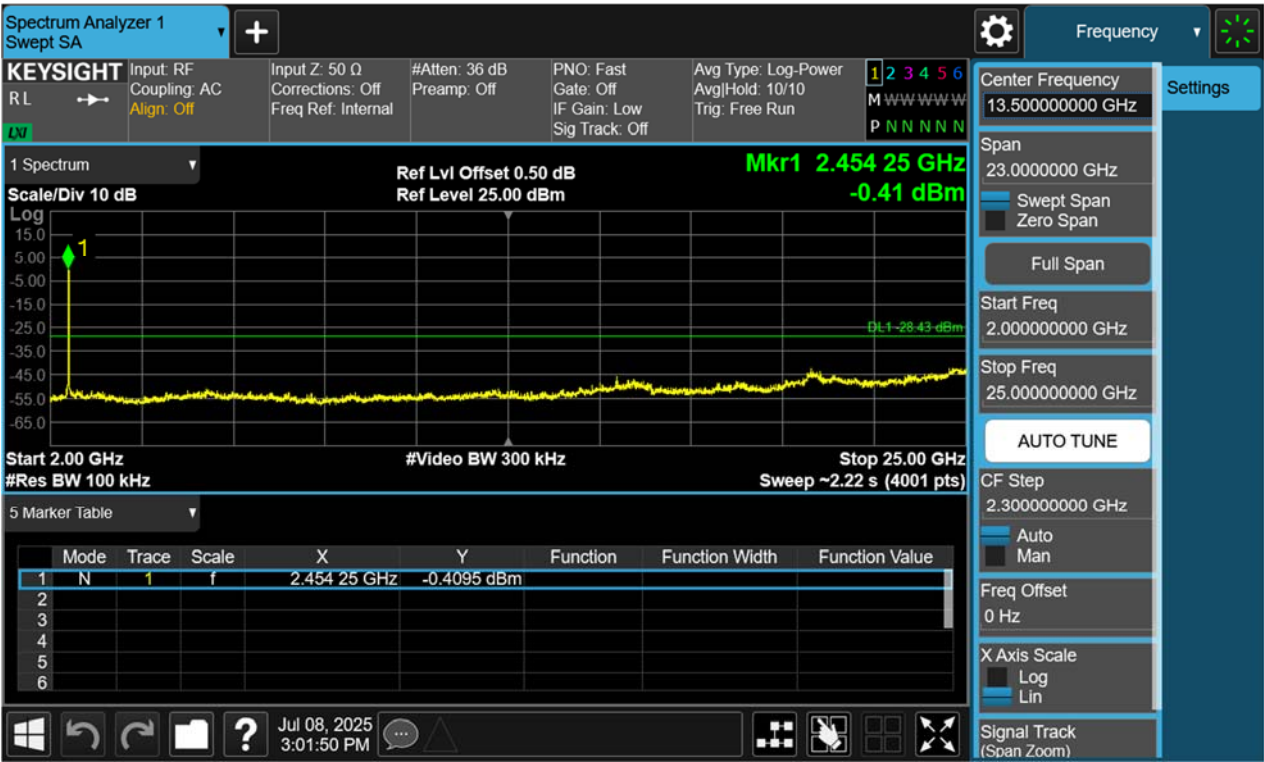
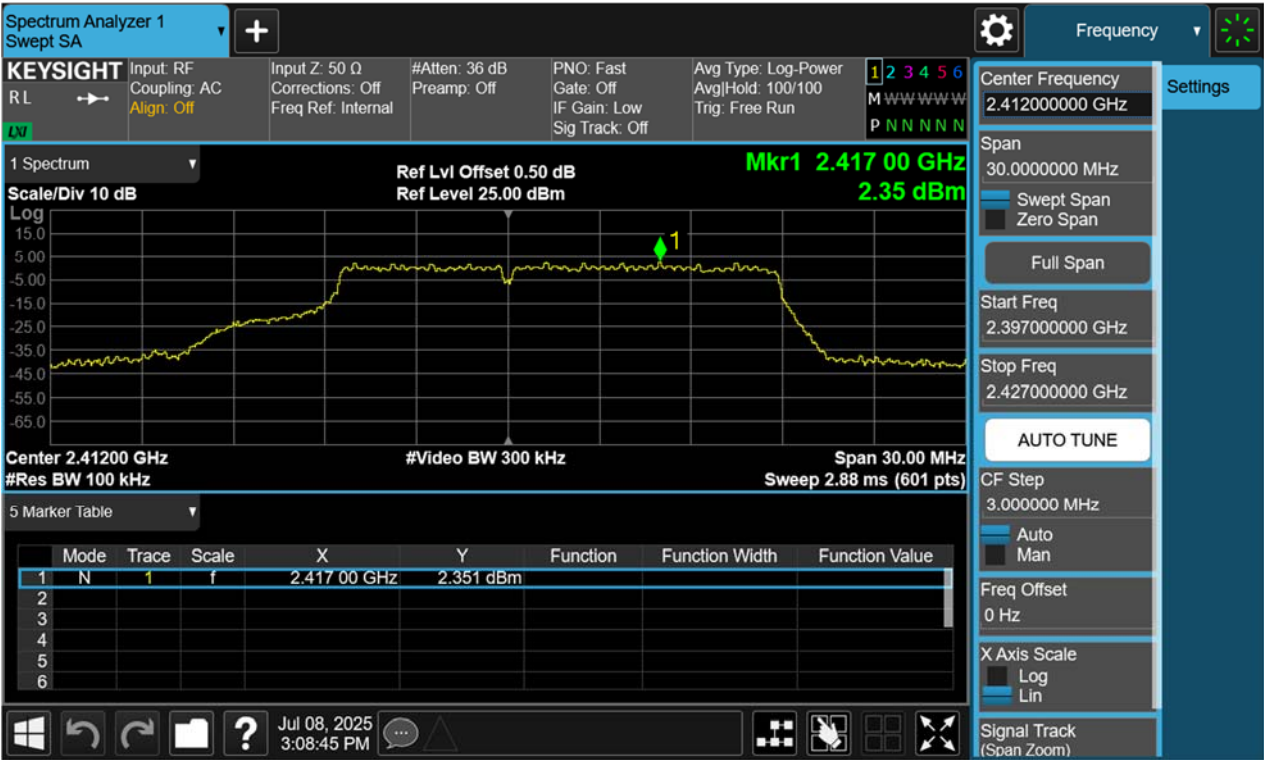


Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



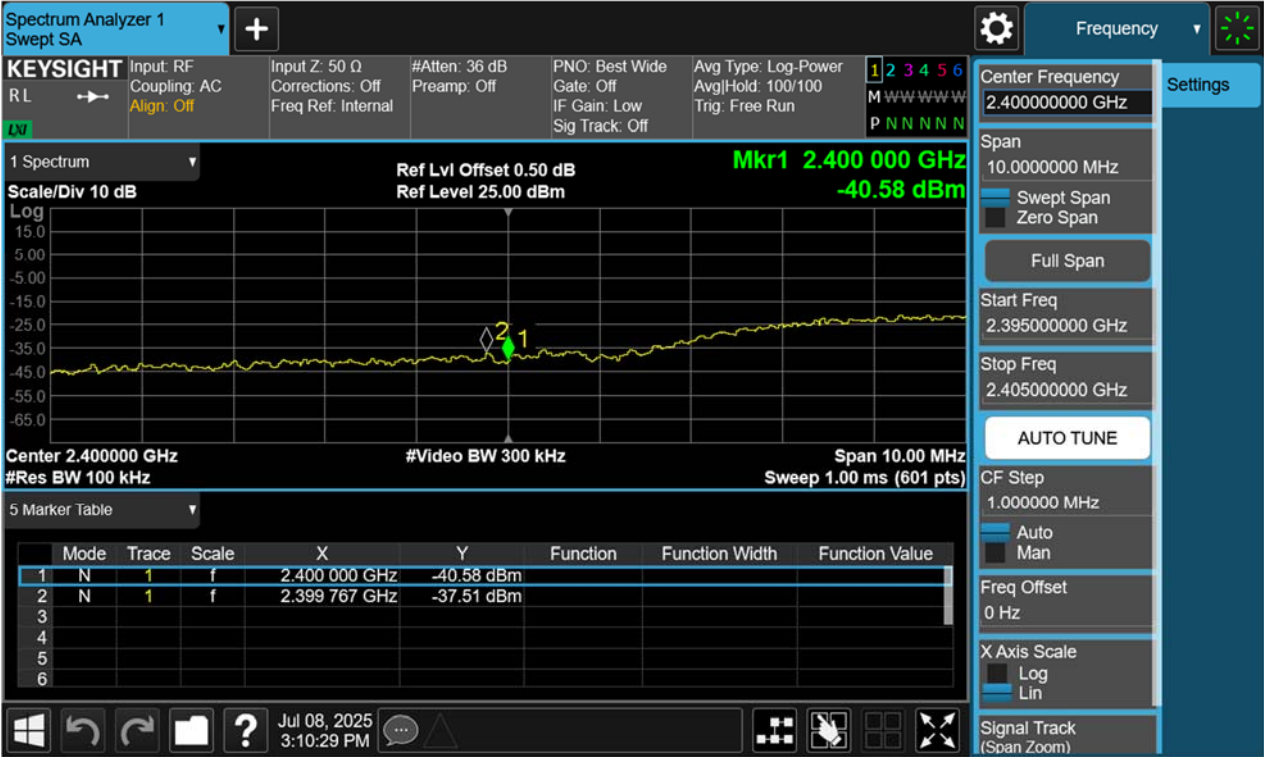
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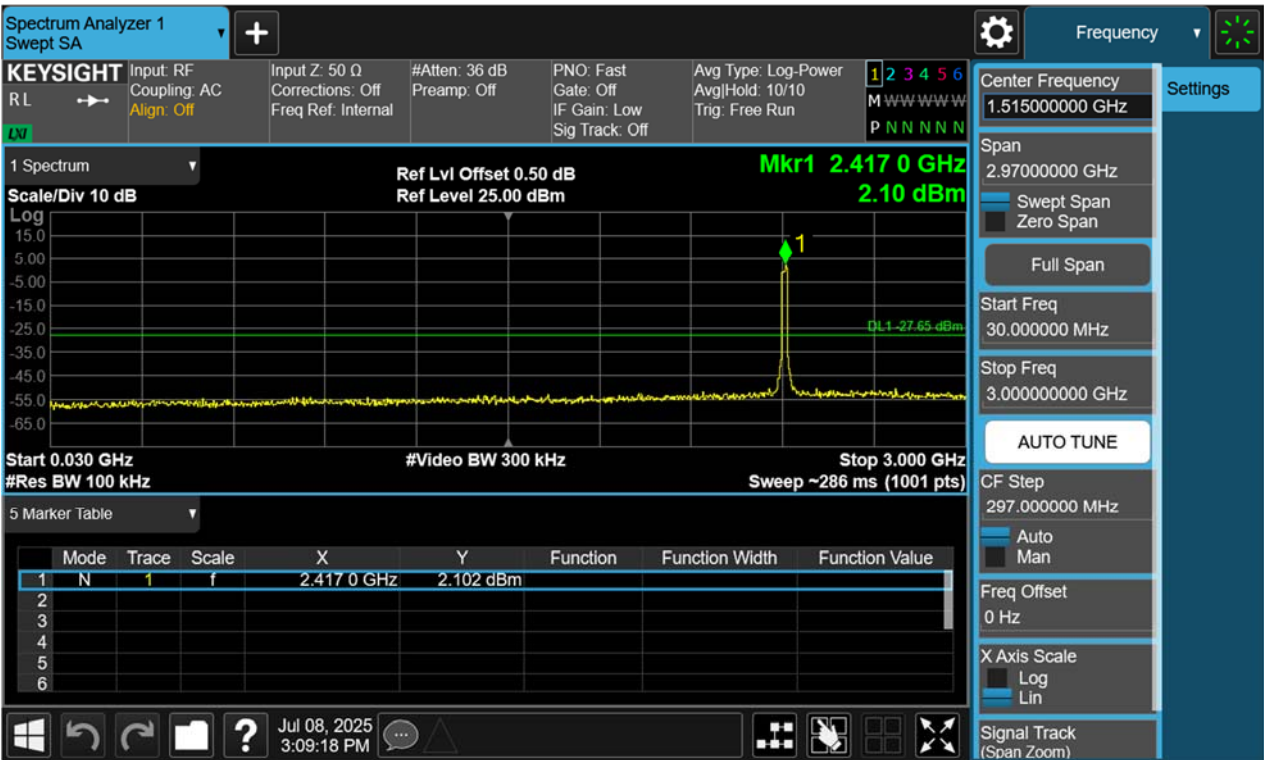
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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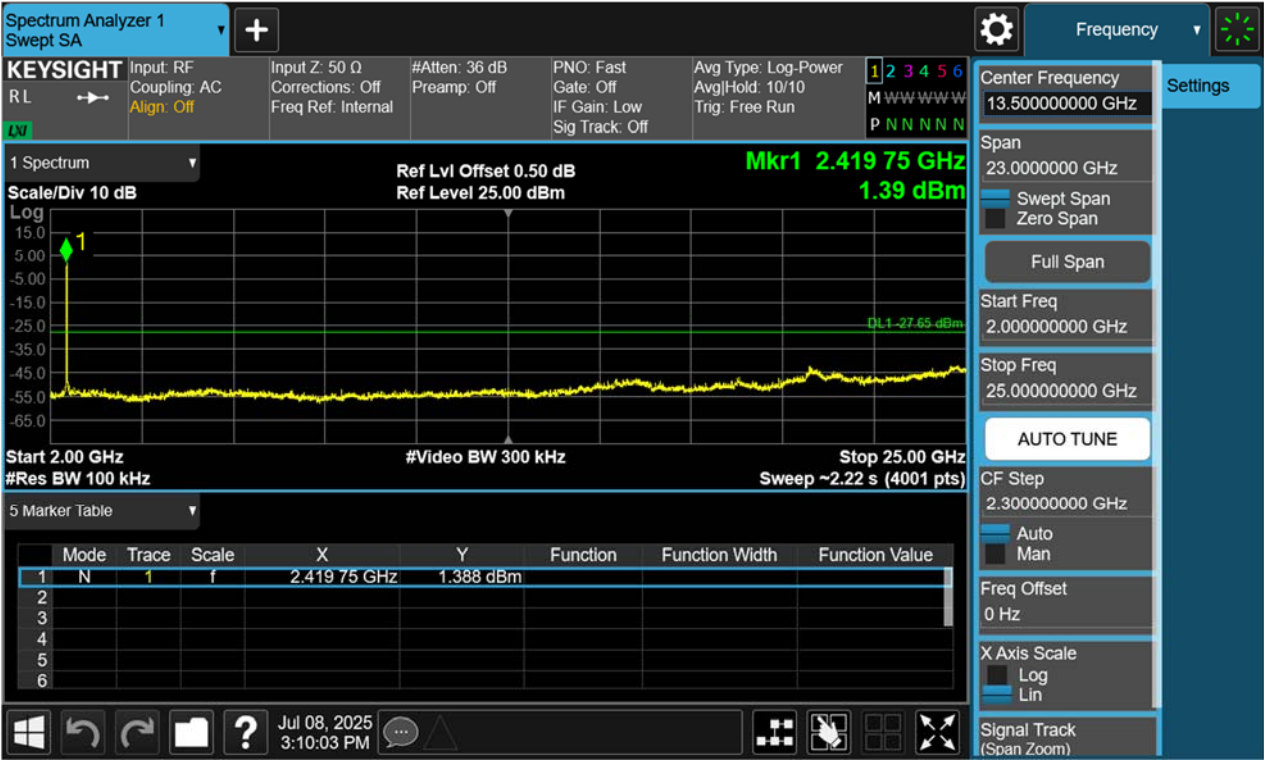
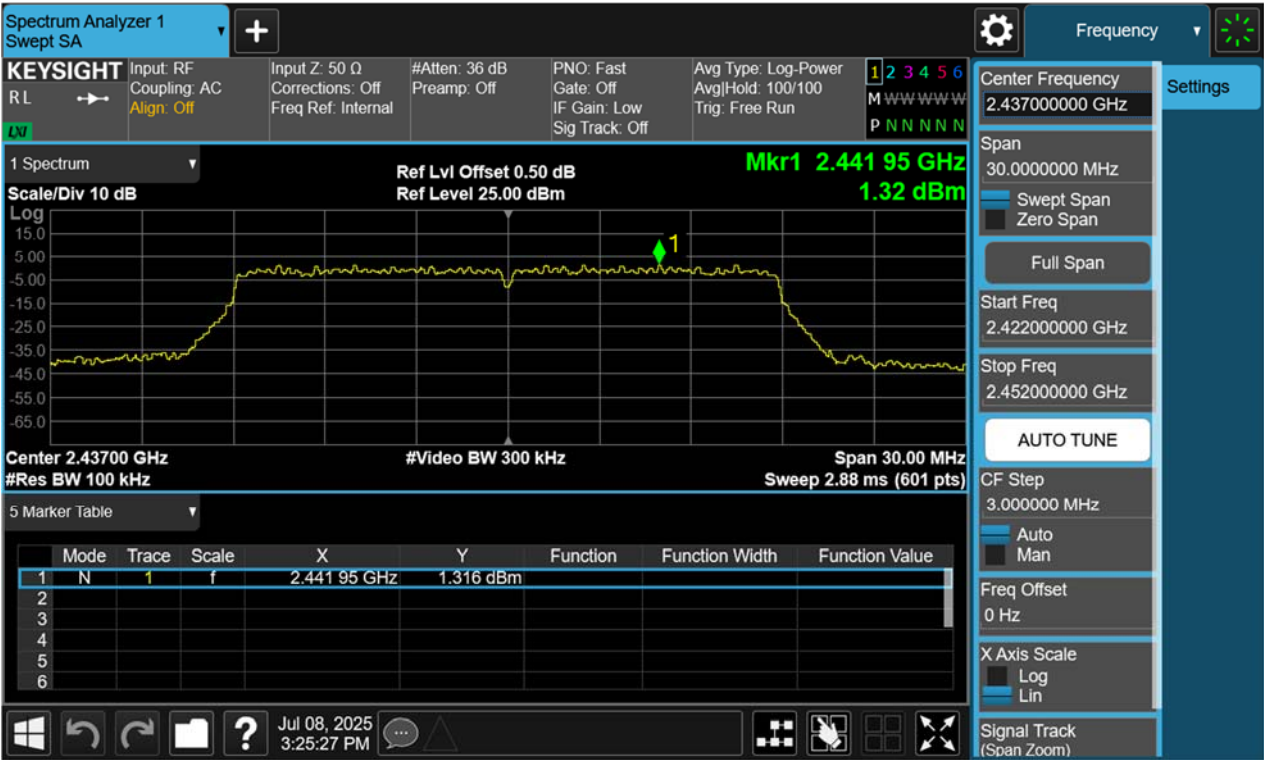


Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



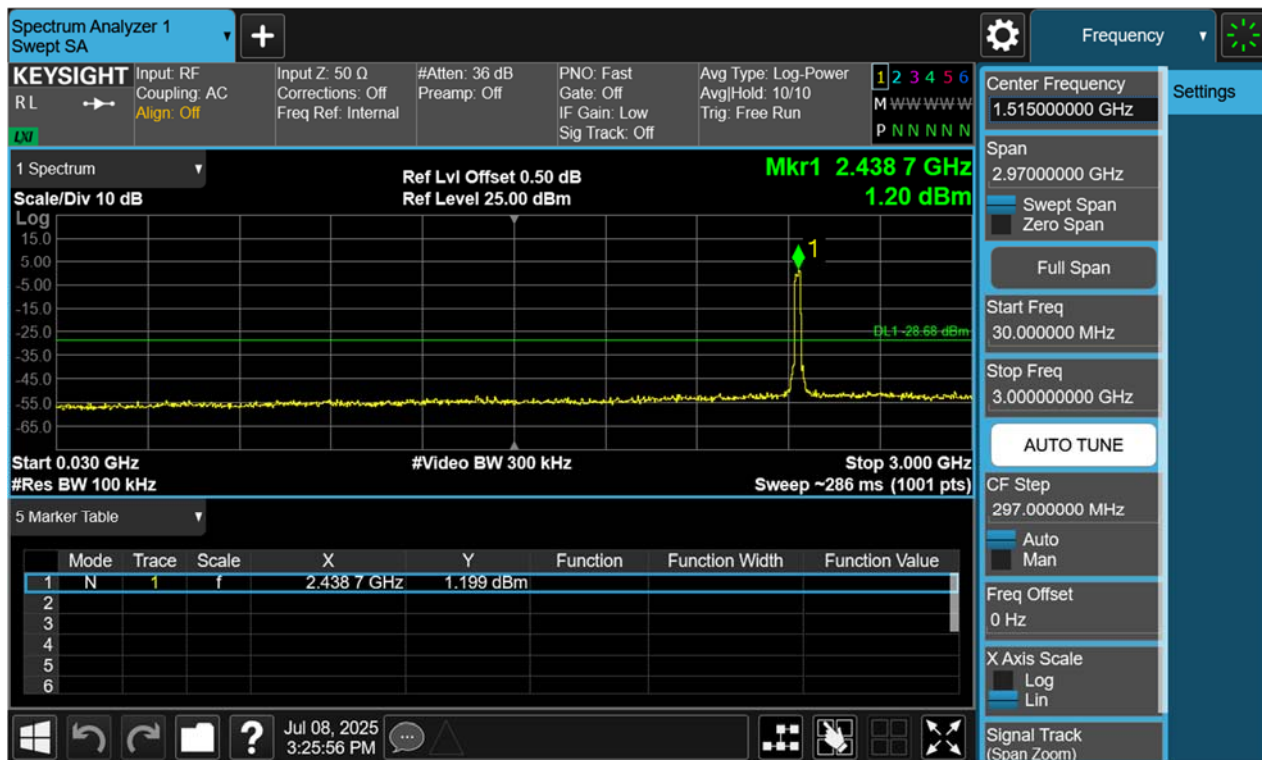
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Conducted spurious emissions 30MHz-25GHz



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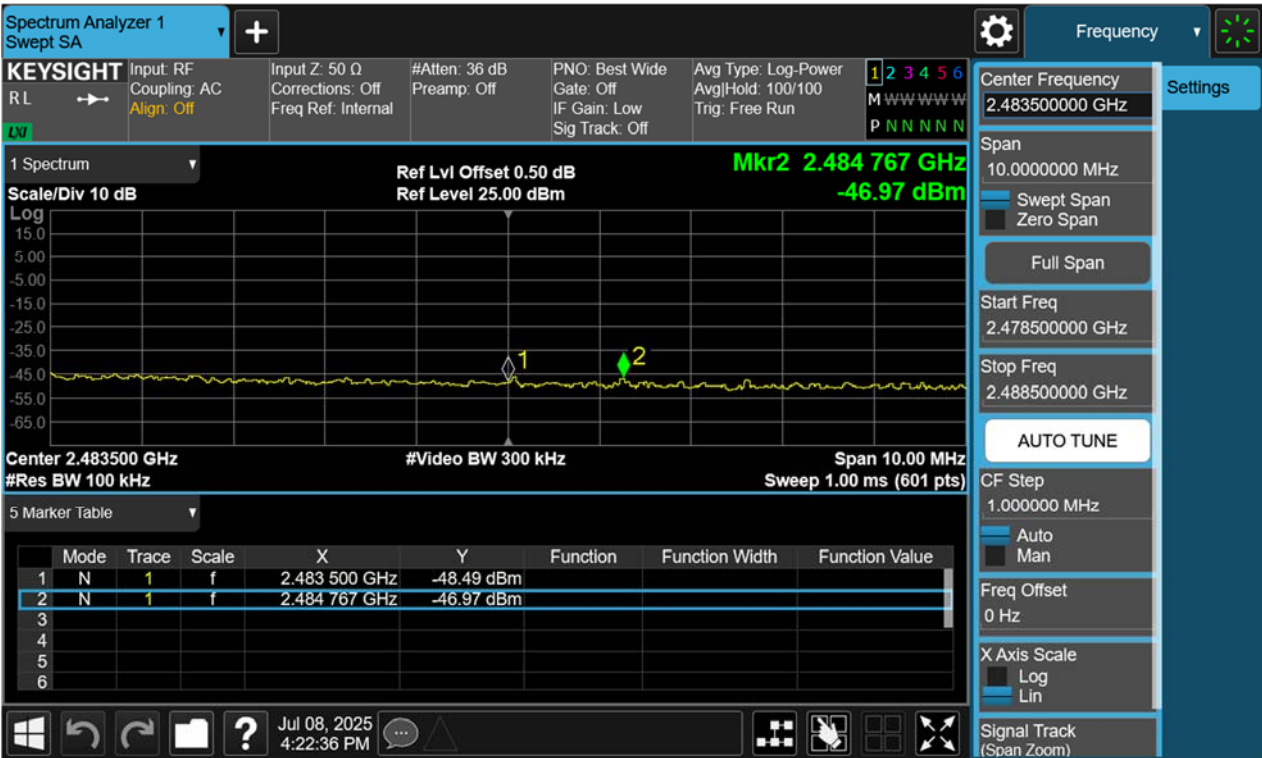
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Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



Band Edge



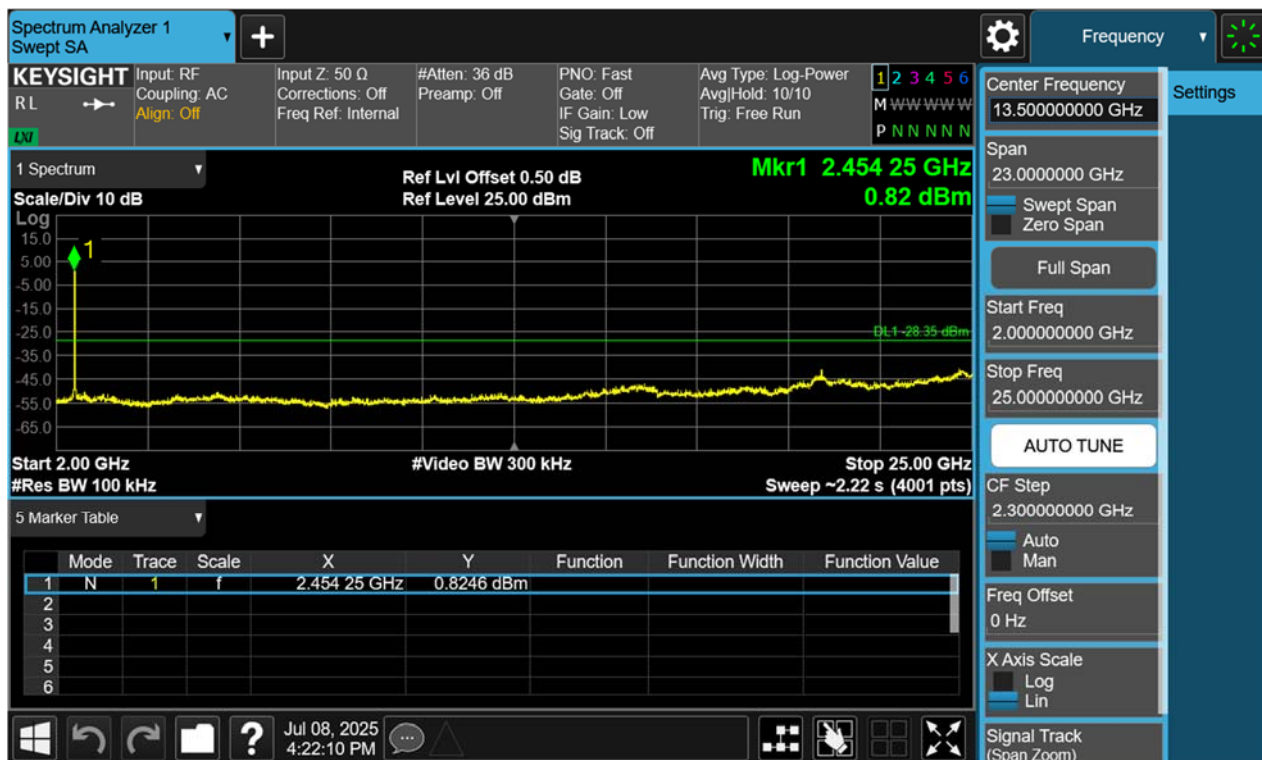
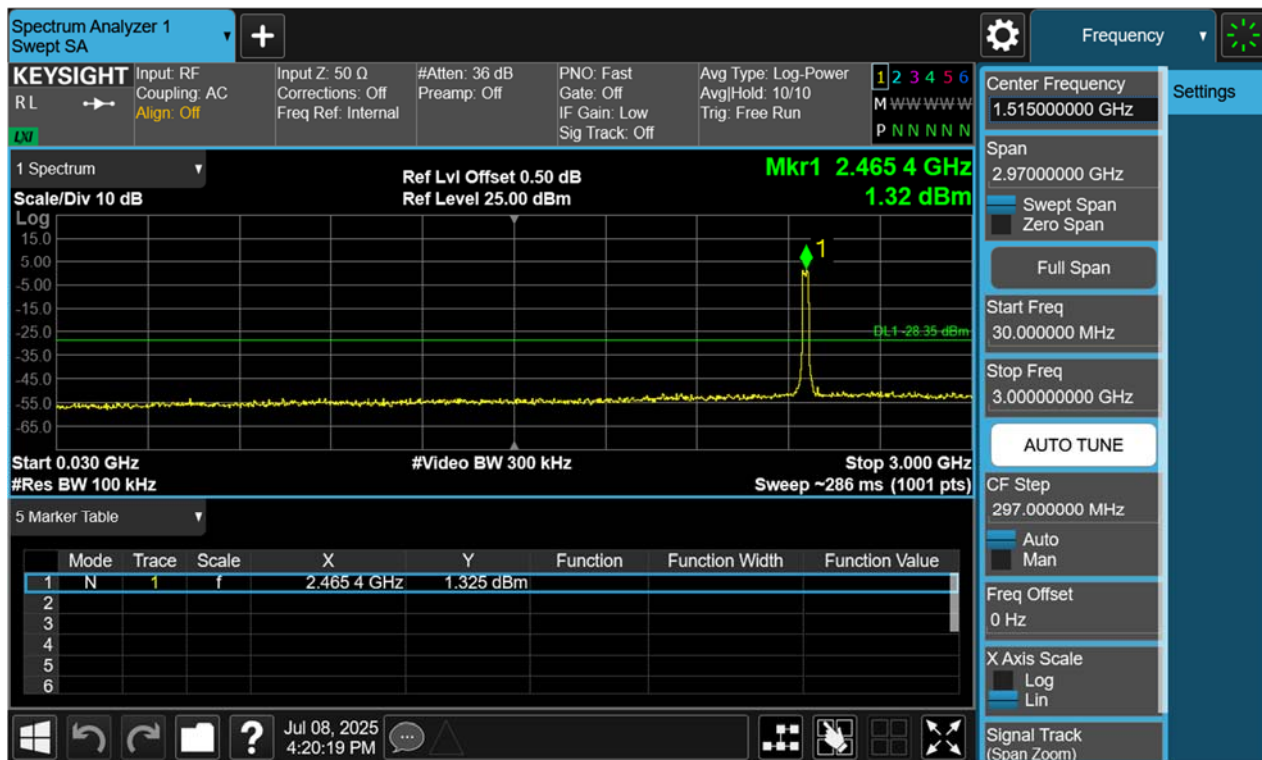
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Conducted spurious emissions 30MHz-25GHz



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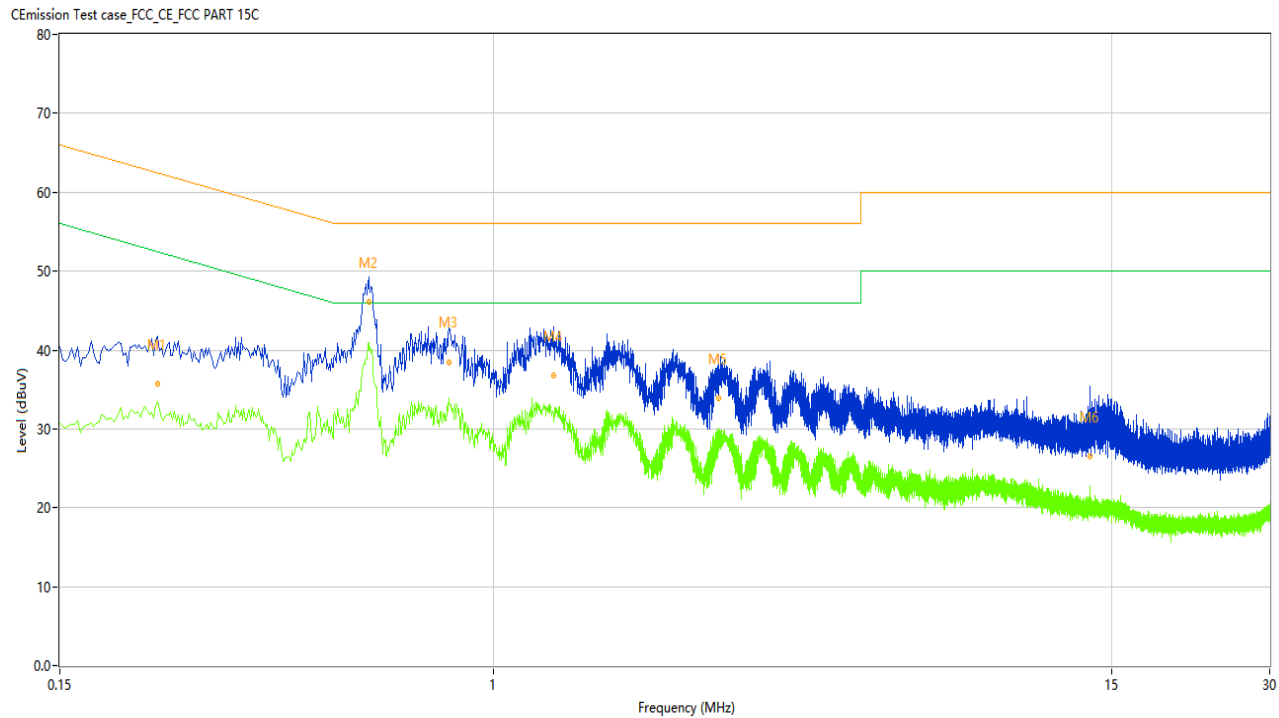
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Note: All test modes had been pre-tested, but only the 802.11b at high channel is the worst case and recorded in the report.

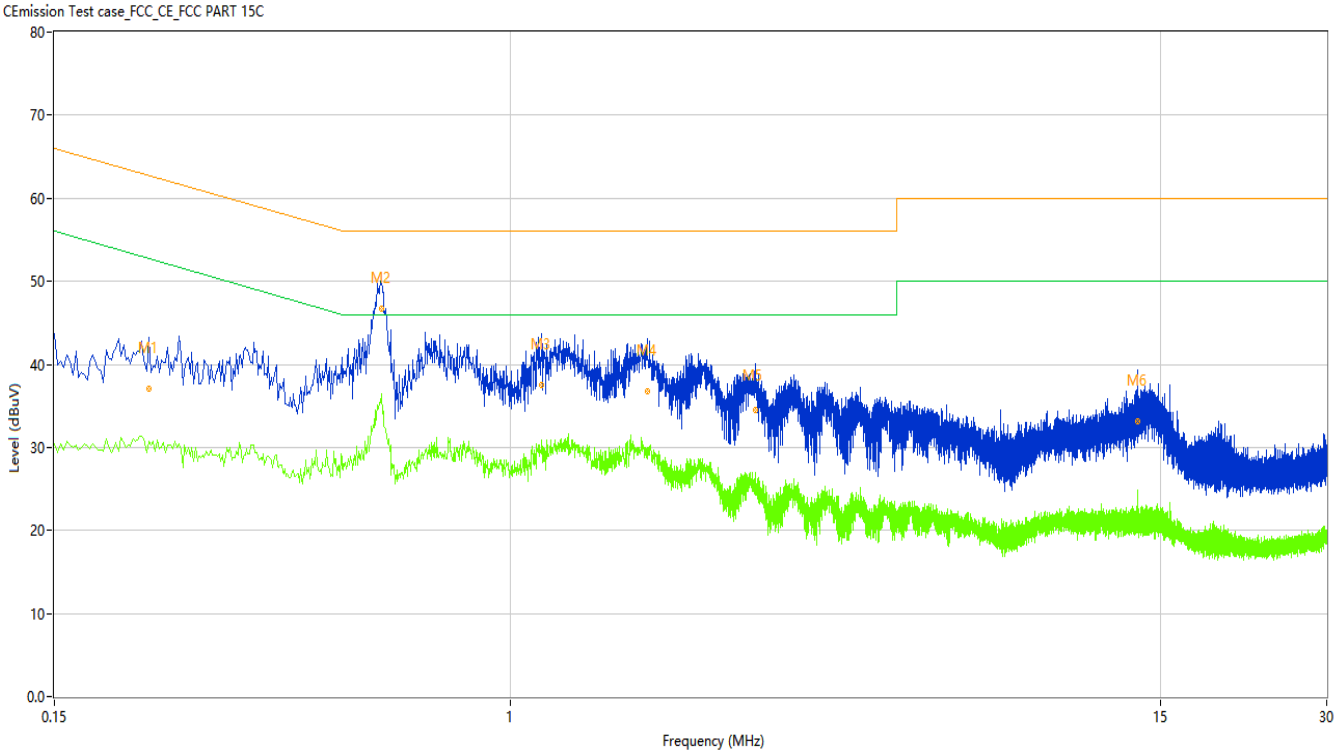
Figure 28: Conducted Emission on AC Mains, L Phase



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



Front 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



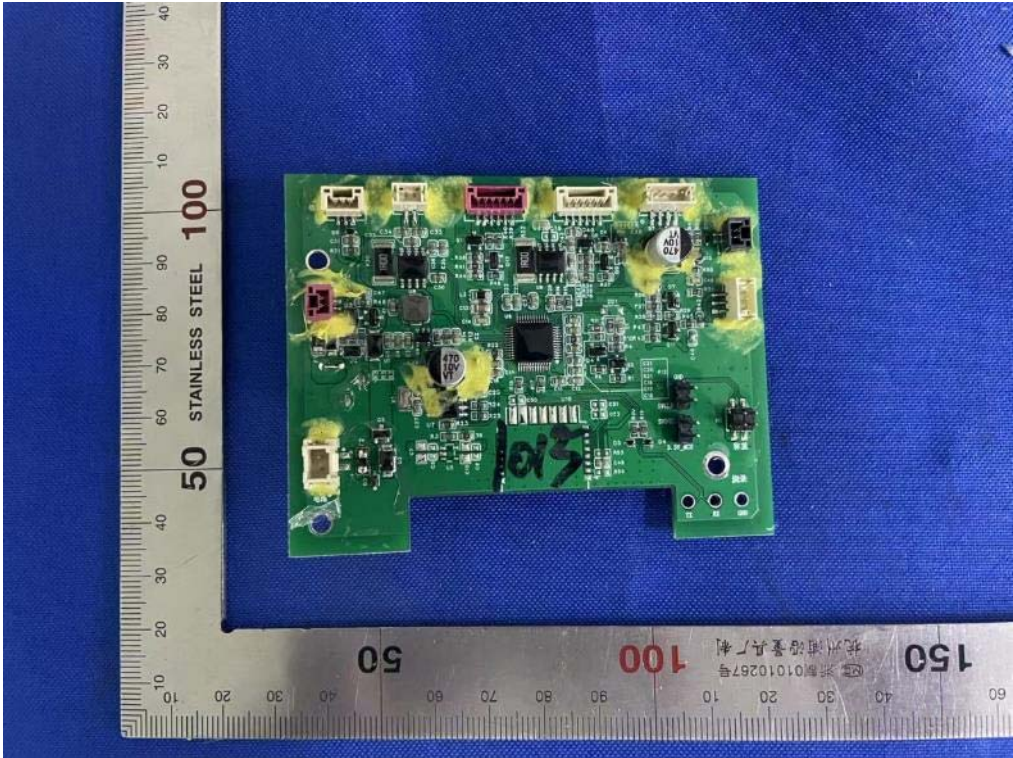
Open-1 of the sample

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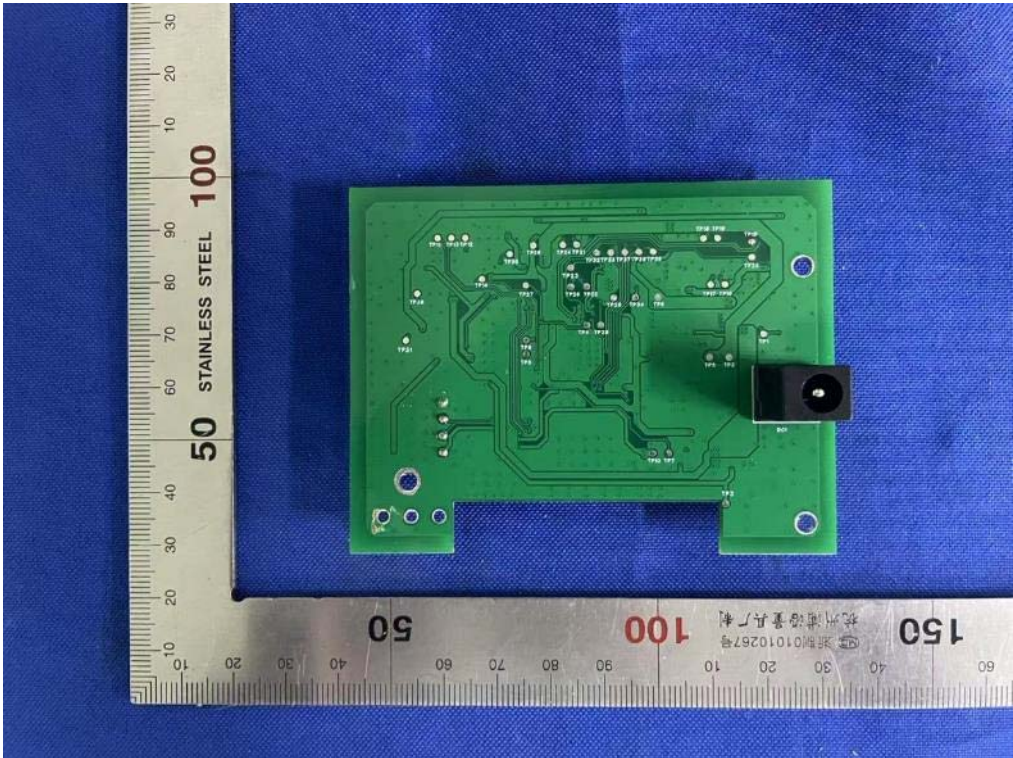
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Internal-1 of the sample



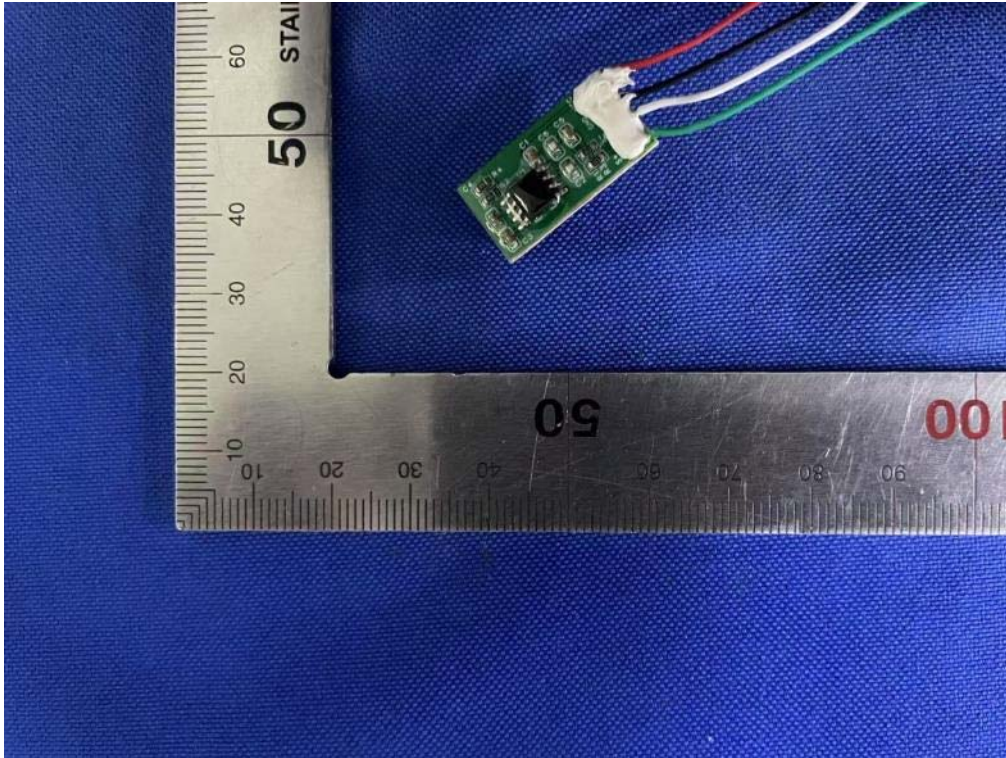
Internal-2 of the sample

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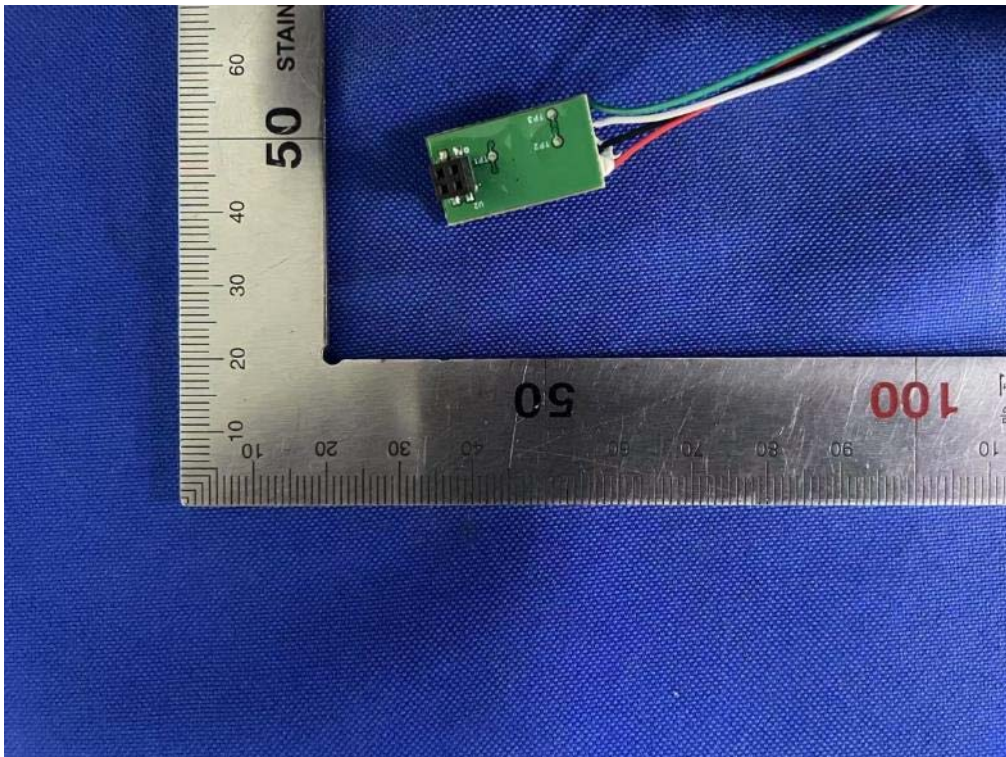
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Internal-3 of the sample



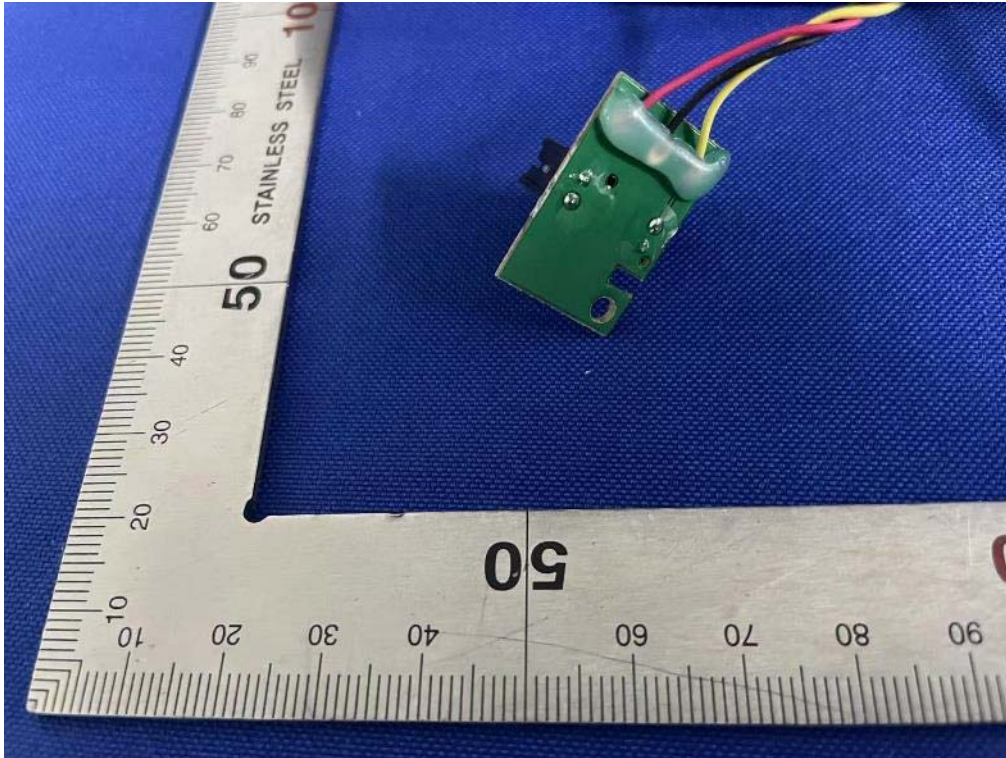
Internal-4 of the sample

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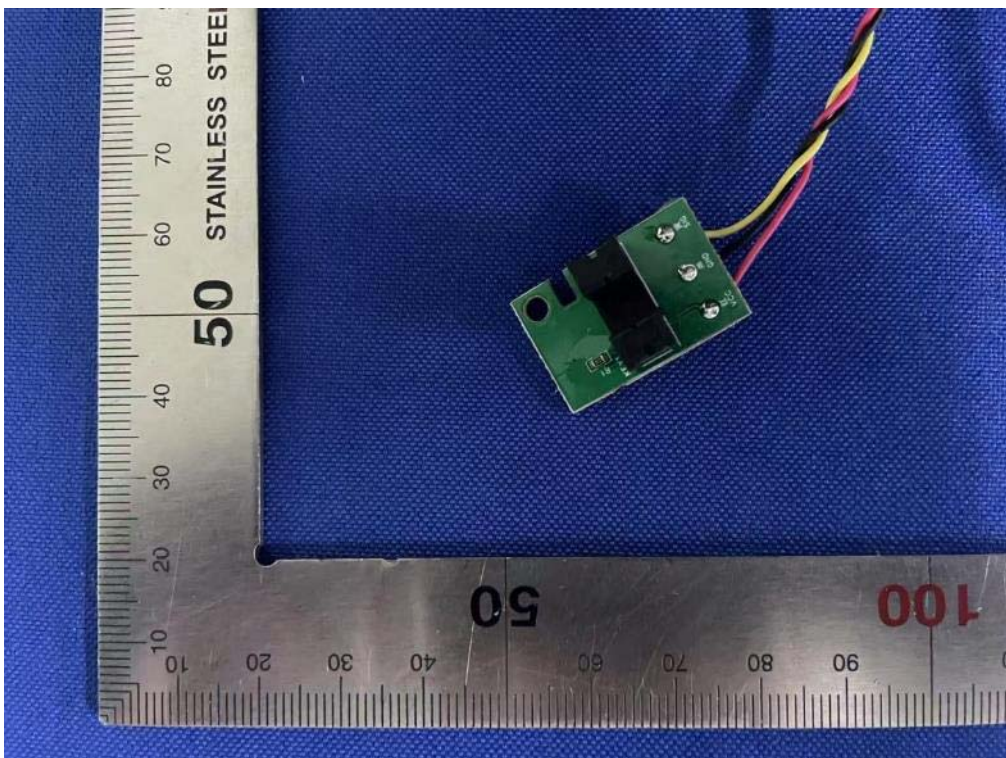
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Internal-5 of the sample



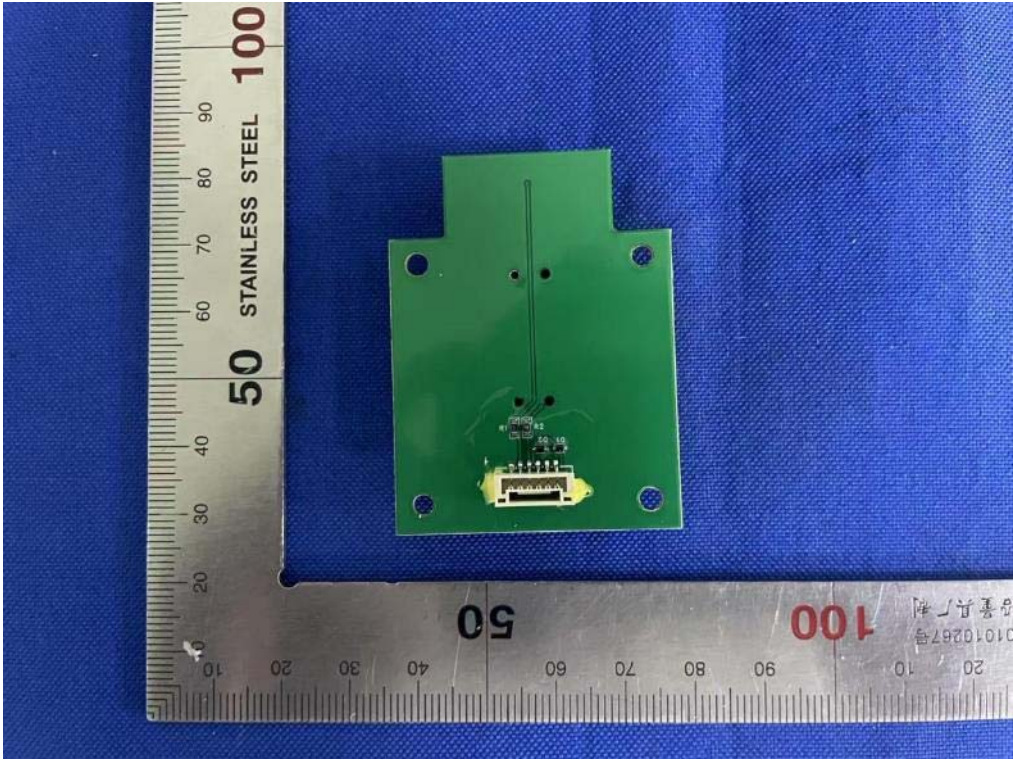
Internal-6 of the sample

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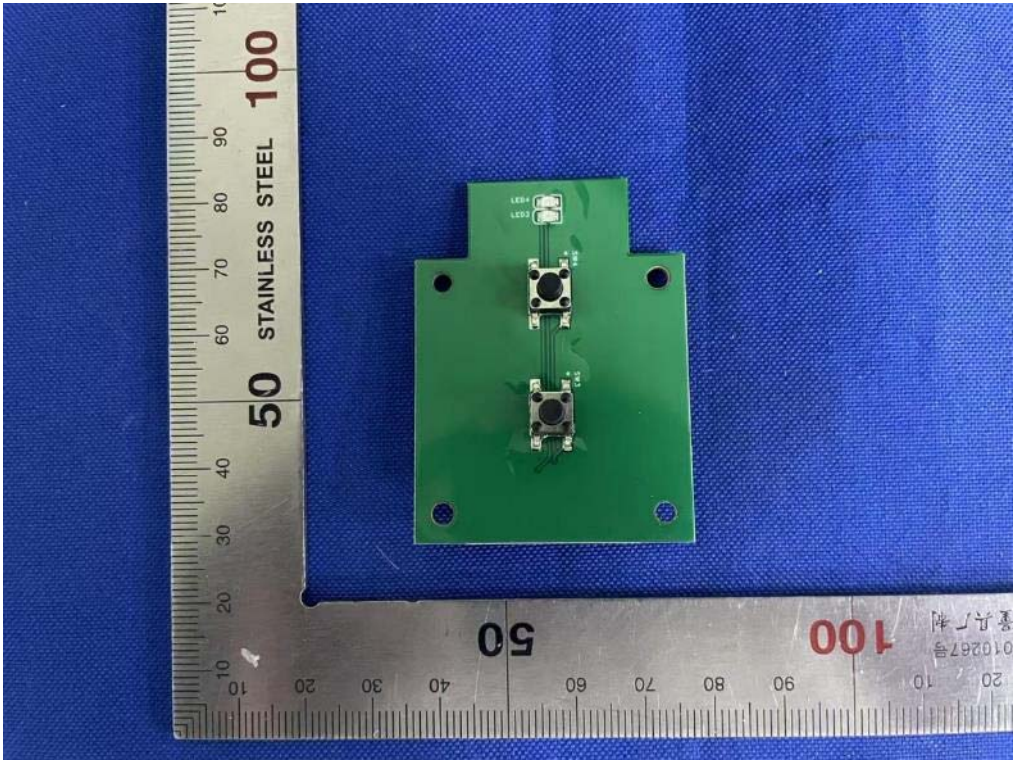
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Internal-7 of the sample



Internal-8 of the sample

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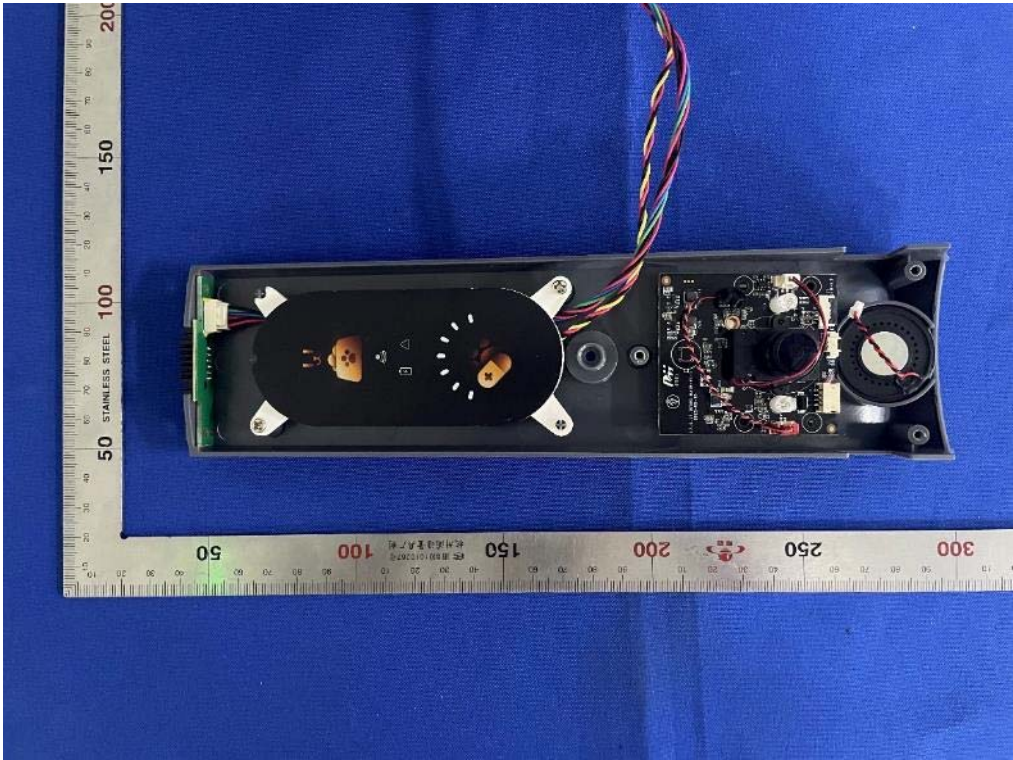
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Internal-9 of the sample



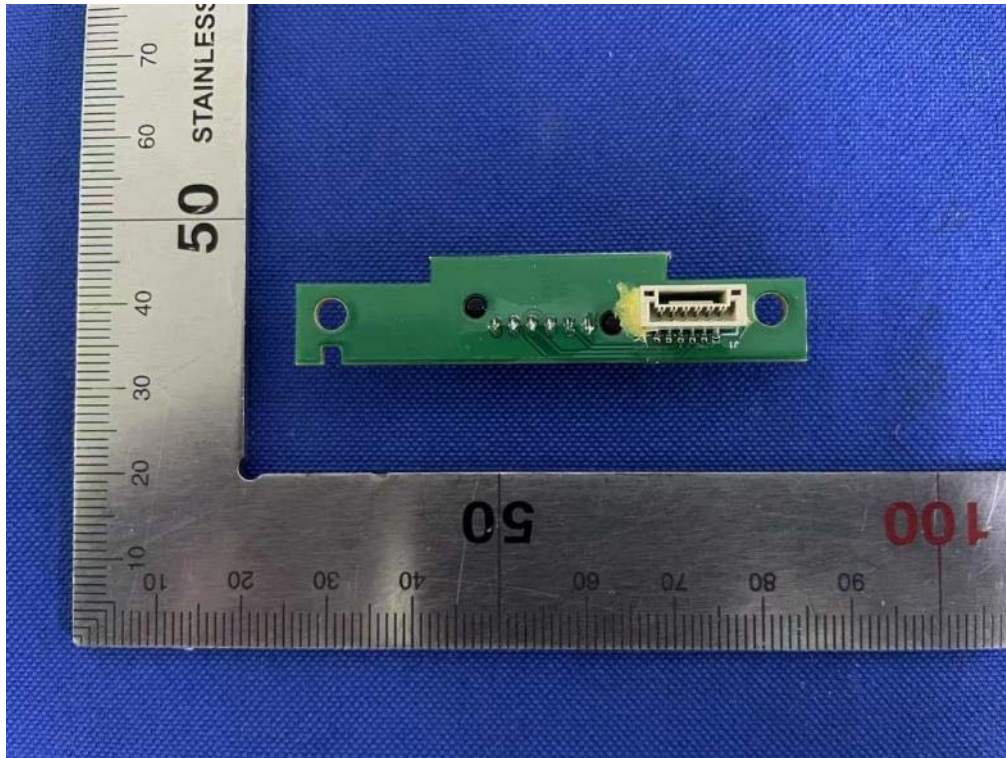
Internal-10 of the sample

TEST REPORT

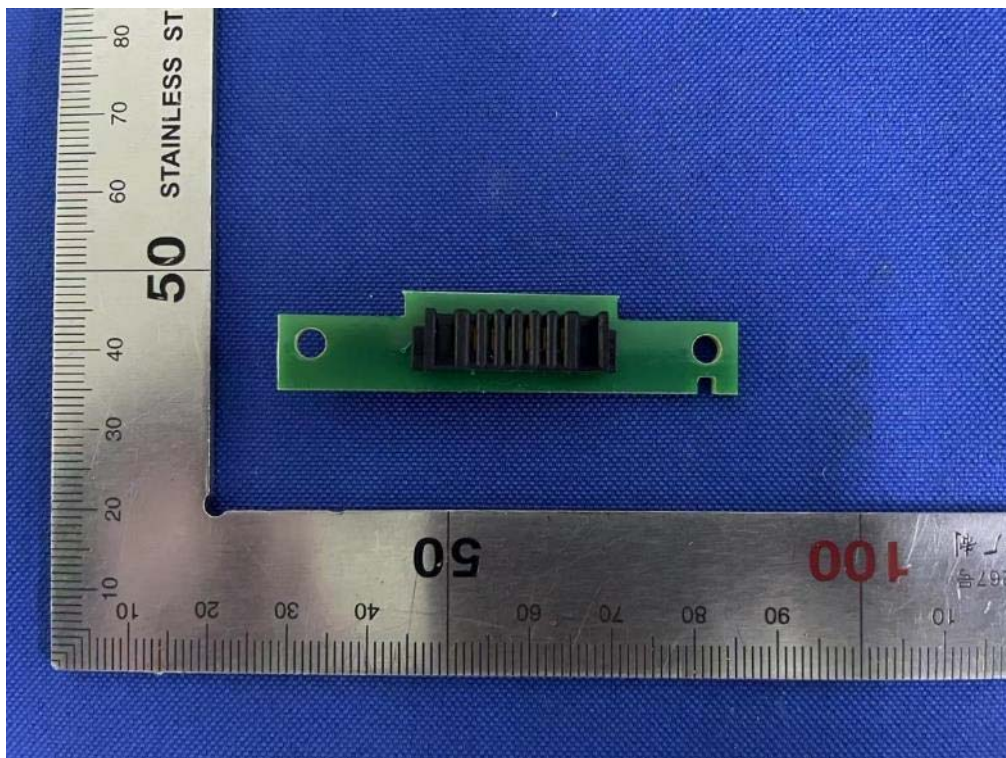
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Internal-11 of the sample



Internal-12 of the sample

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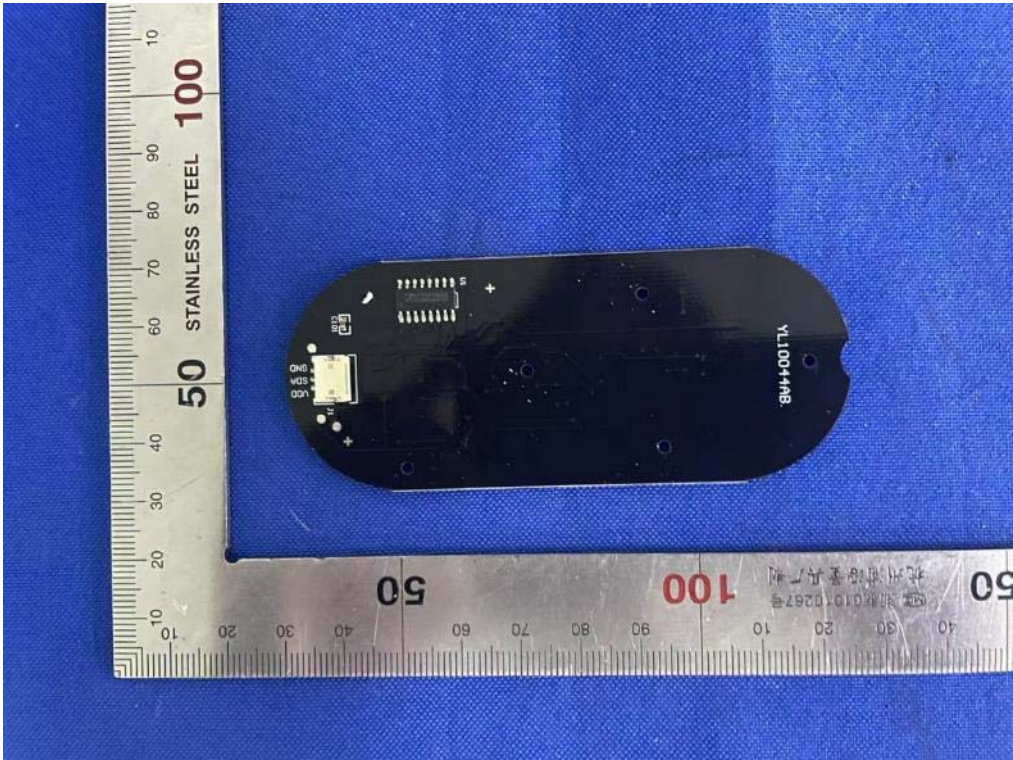
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Internal-13 of the sample



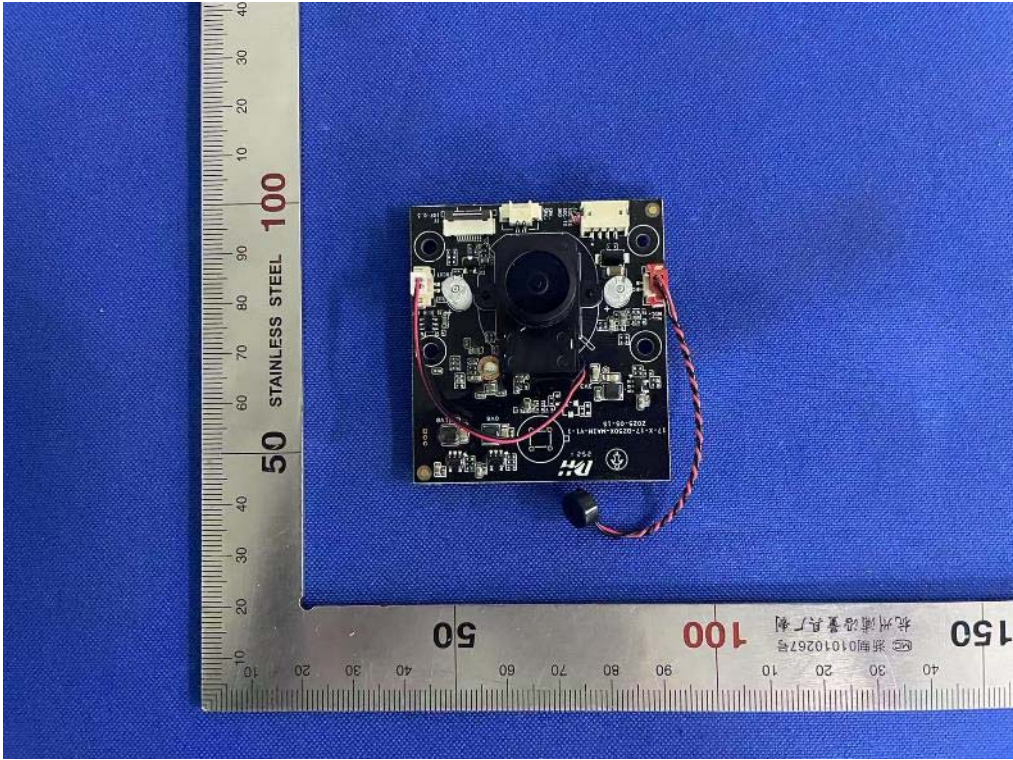
Internal-14 of the sample

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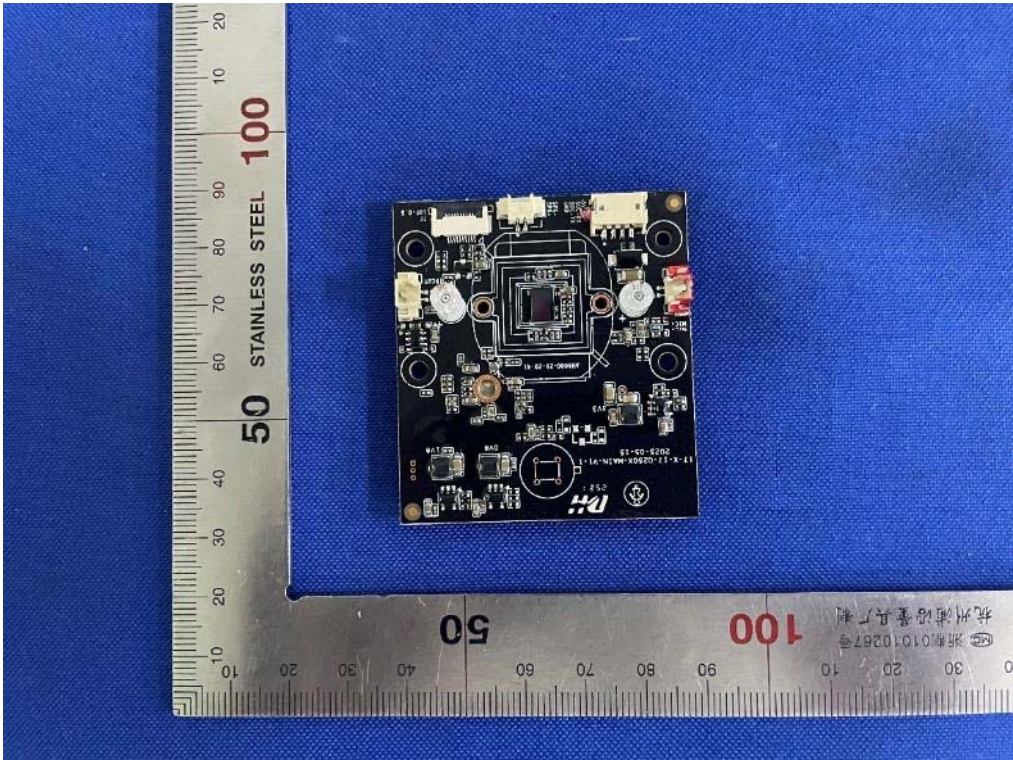
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Internal-15 of the sample



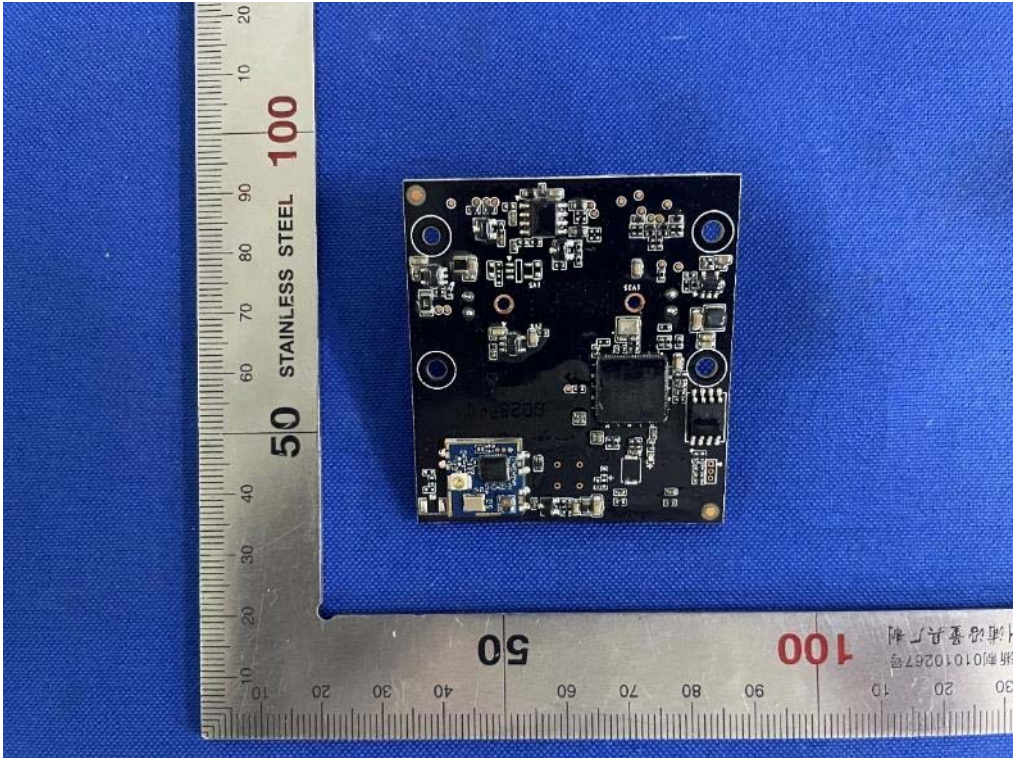
Internal-16 of the sample

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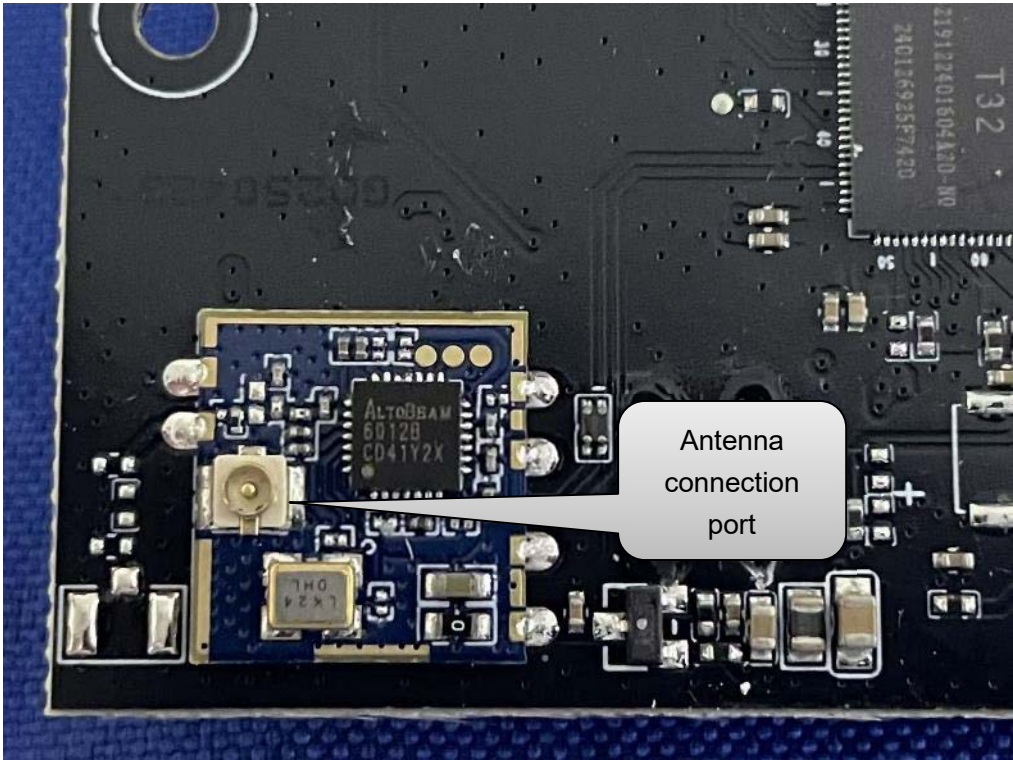
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Internal-17 of the sample



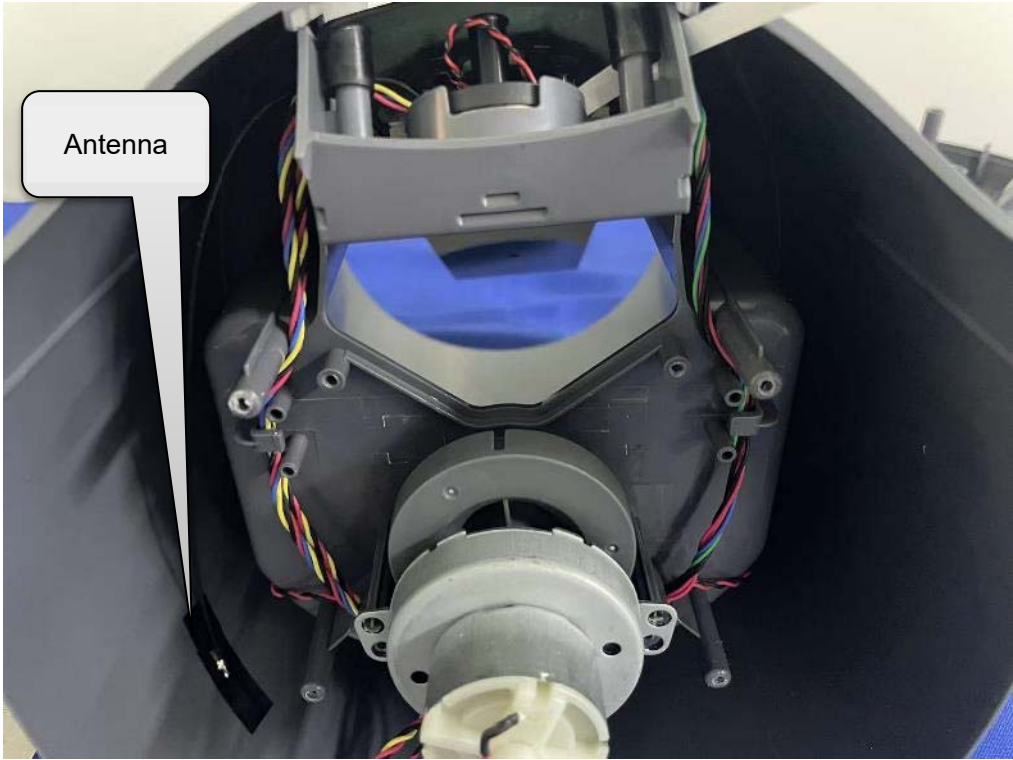
Antenna connection port

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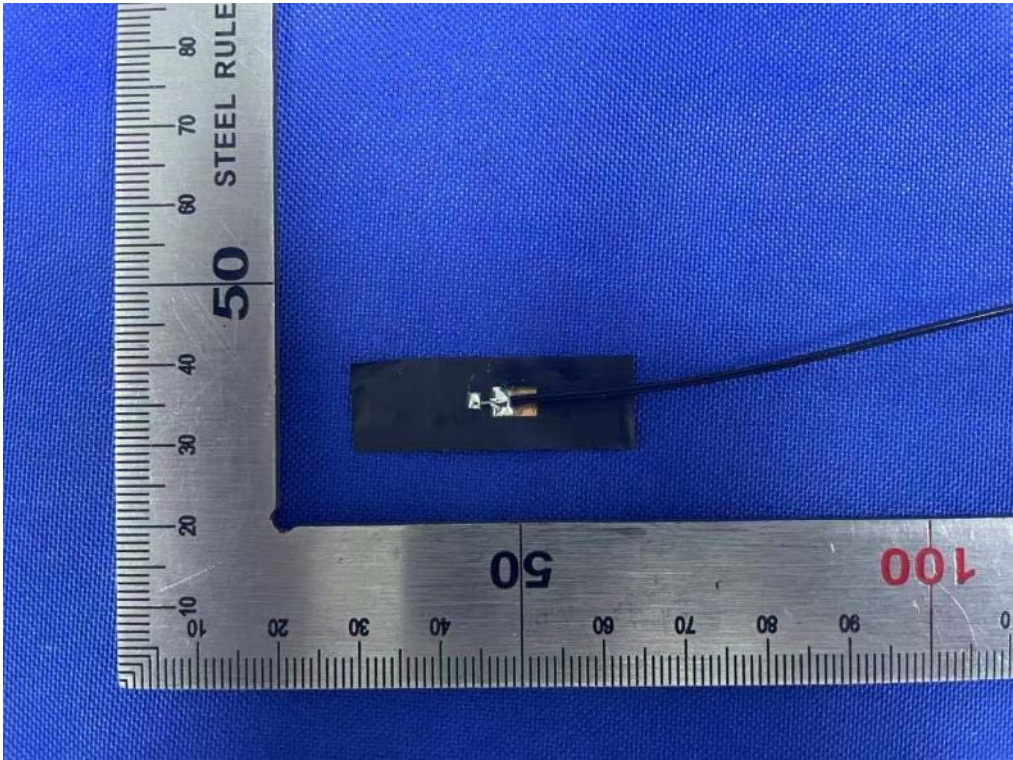
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Antenna Position



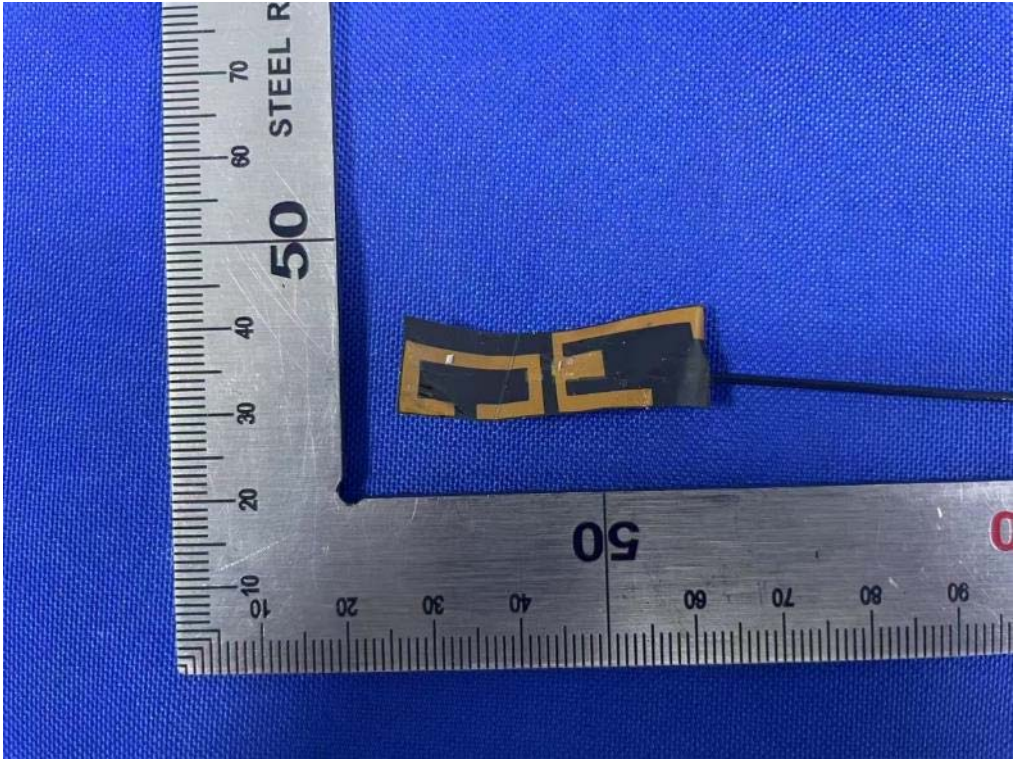
Antenna photo-1

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Antenna photo-2



Adapter-1

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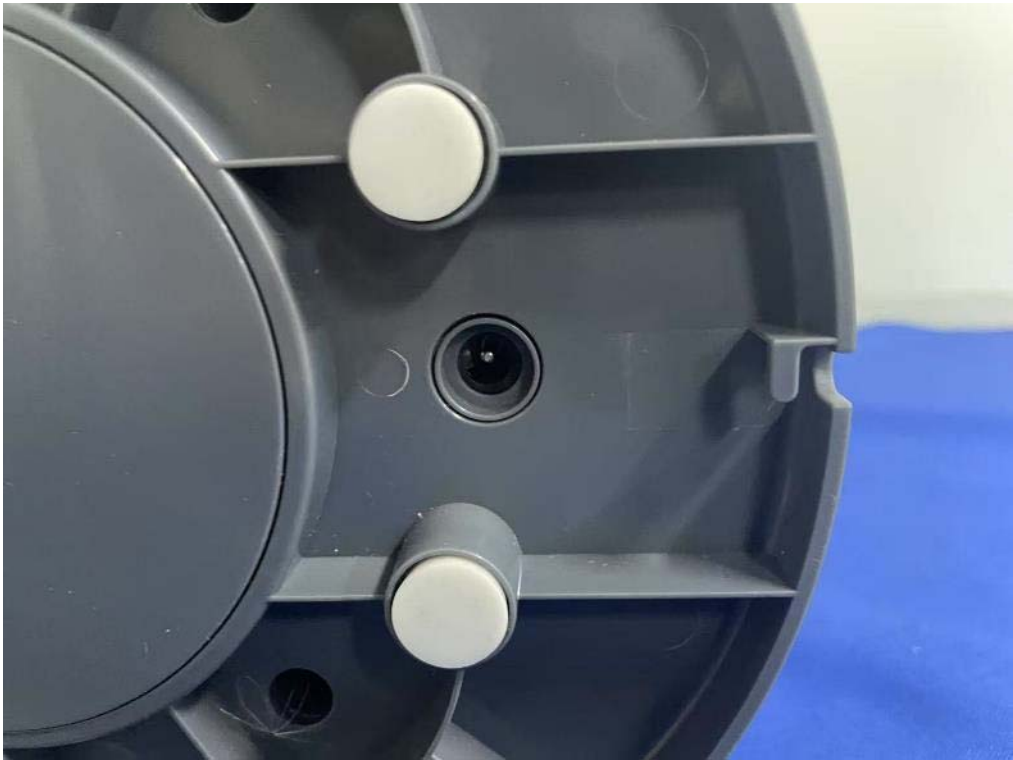
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Adapter-2



Power Port

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Battery Supply

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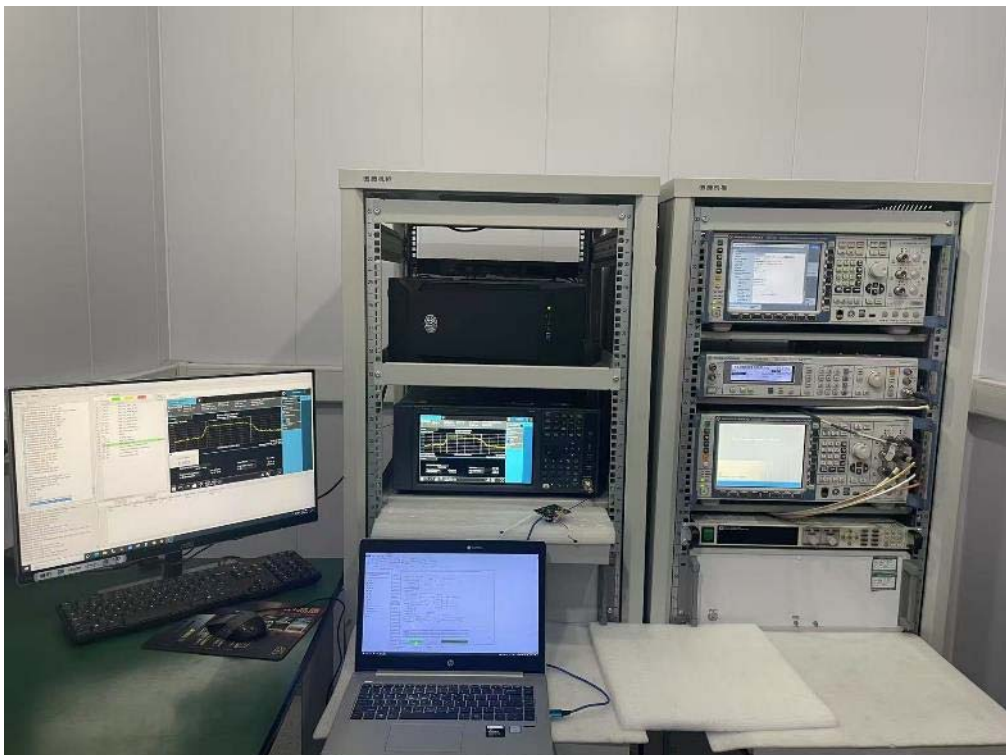
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5.2 Set-up for Conducted Emissions on AC Mains



5.3 Set-up for Conducted RF test at Antenna Port



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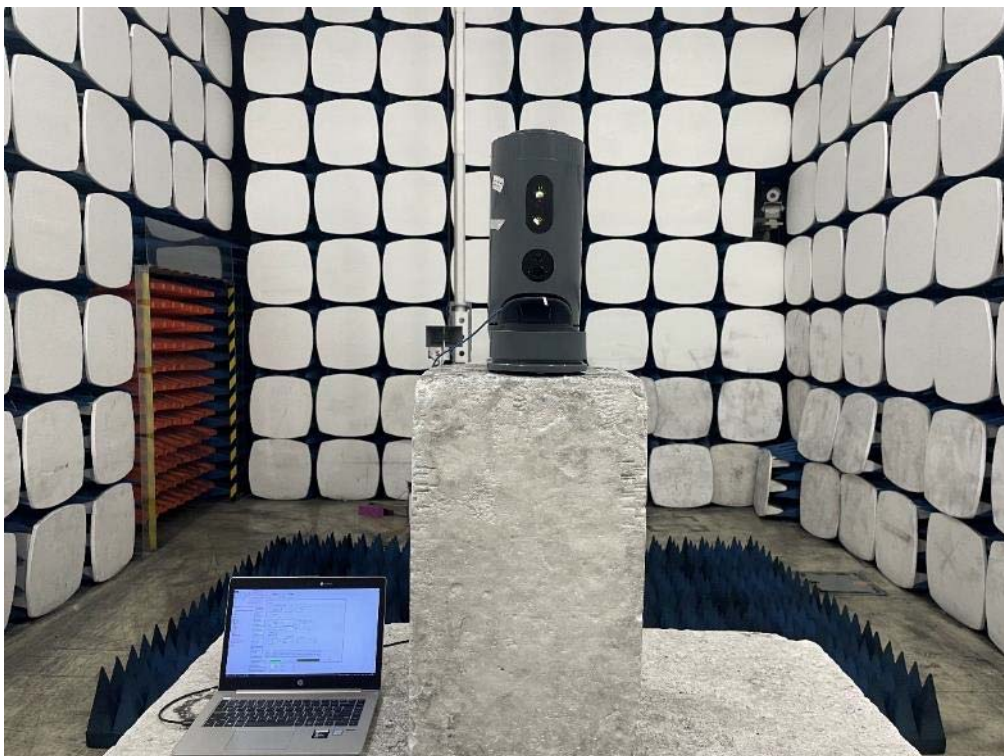
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report