

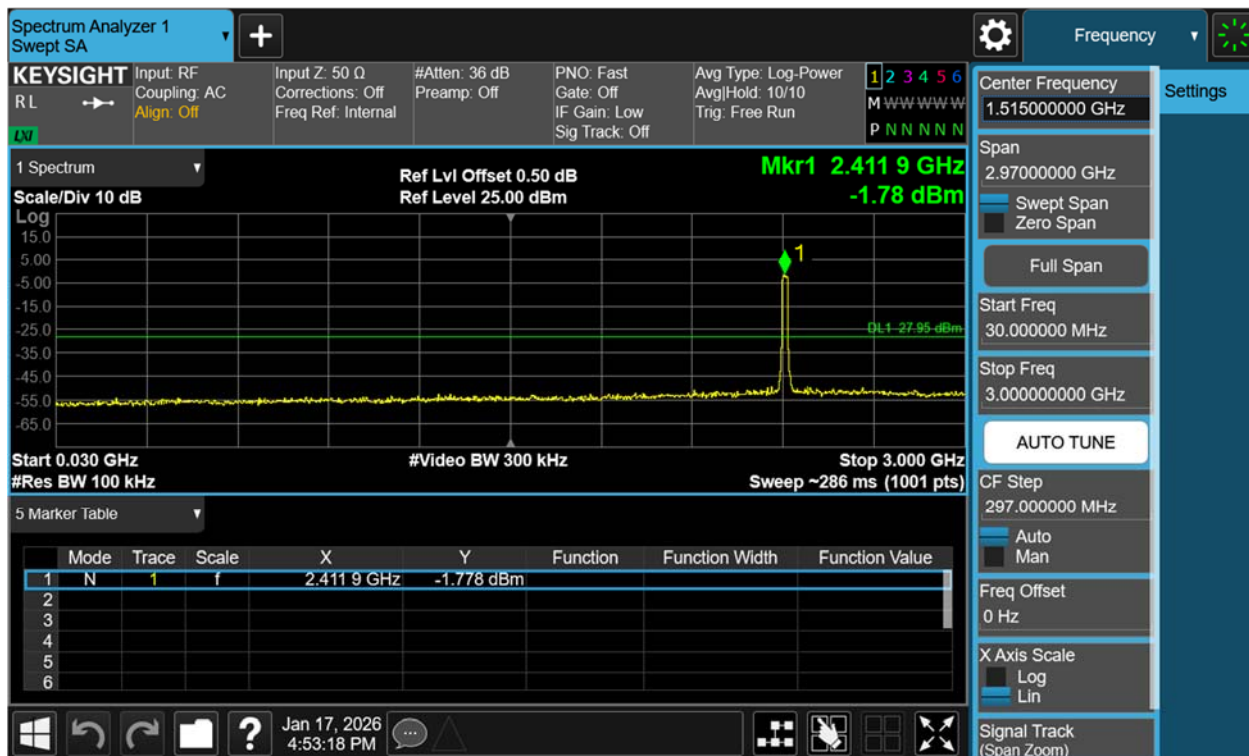
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Conducted spurious emissions 30MHz-25GHz



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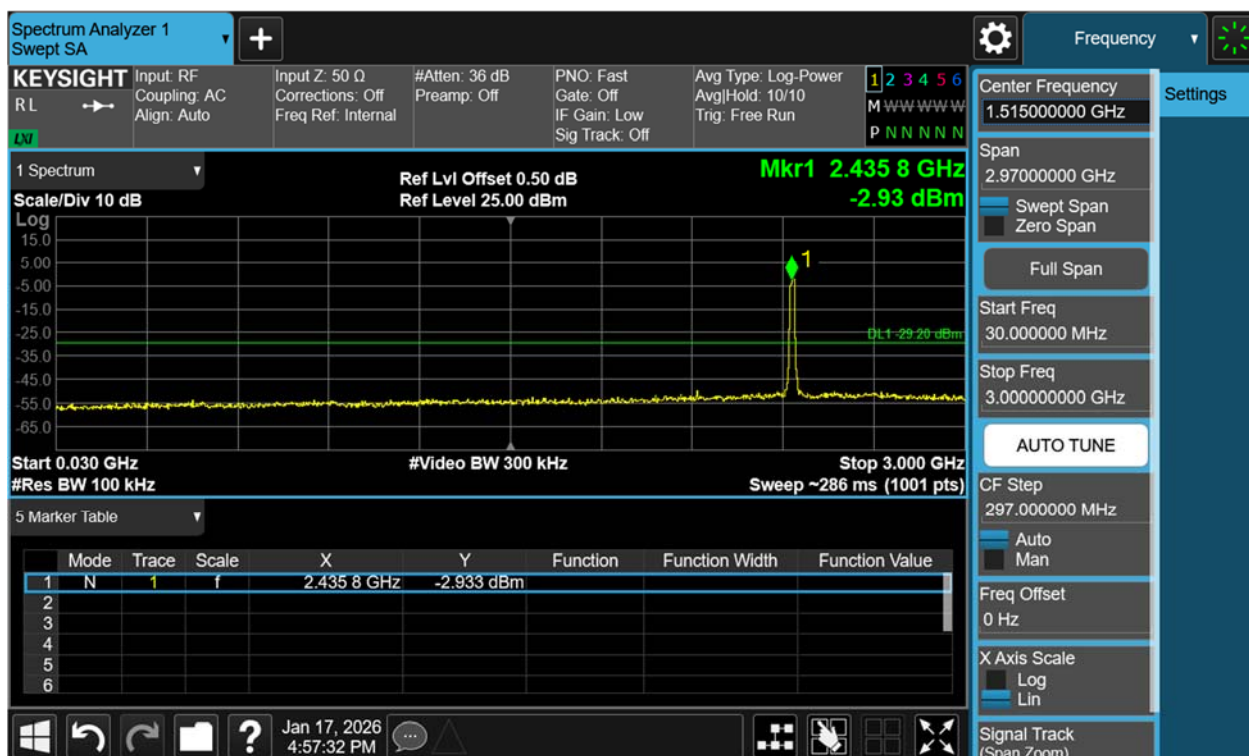
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Figure 23: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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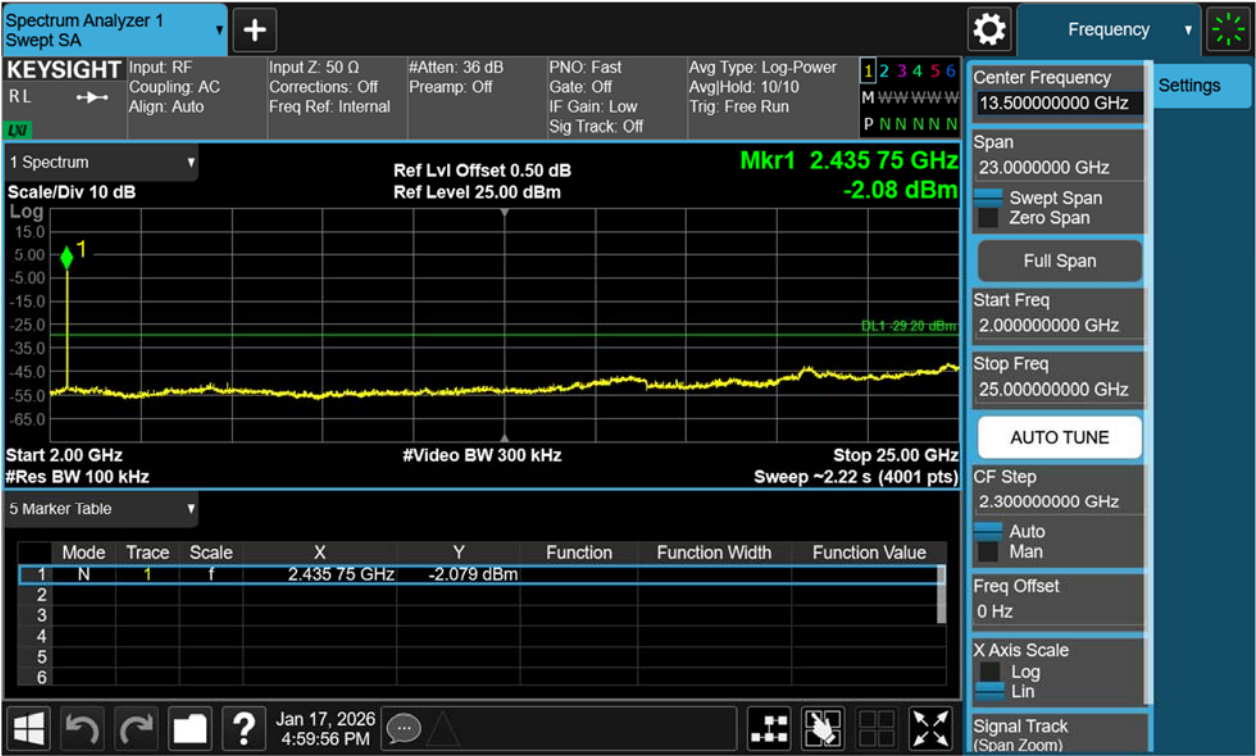


Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



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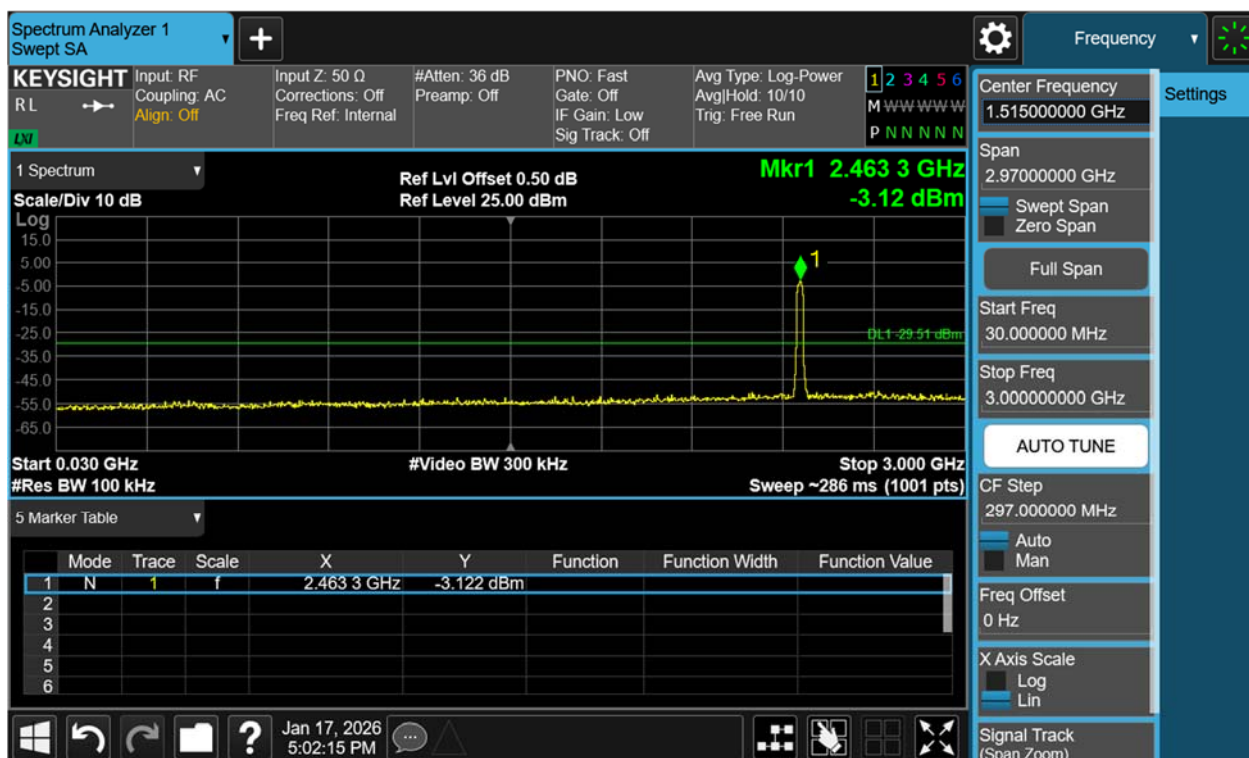
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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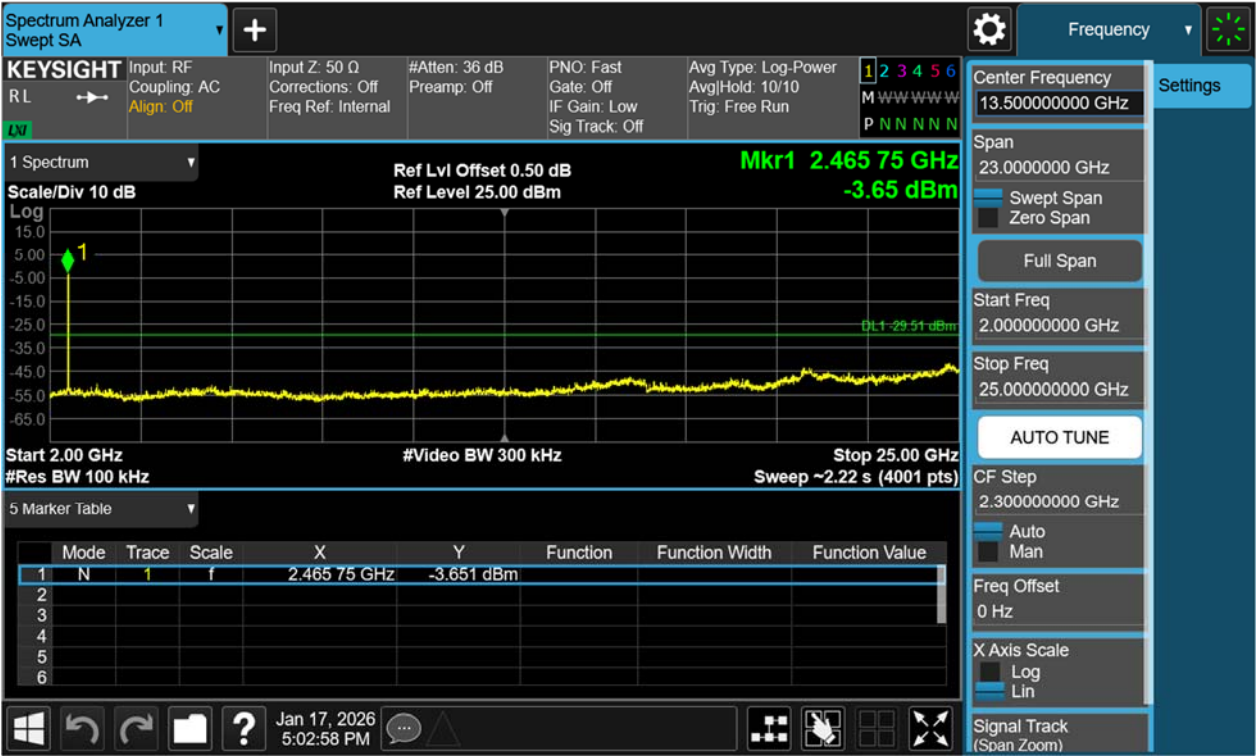
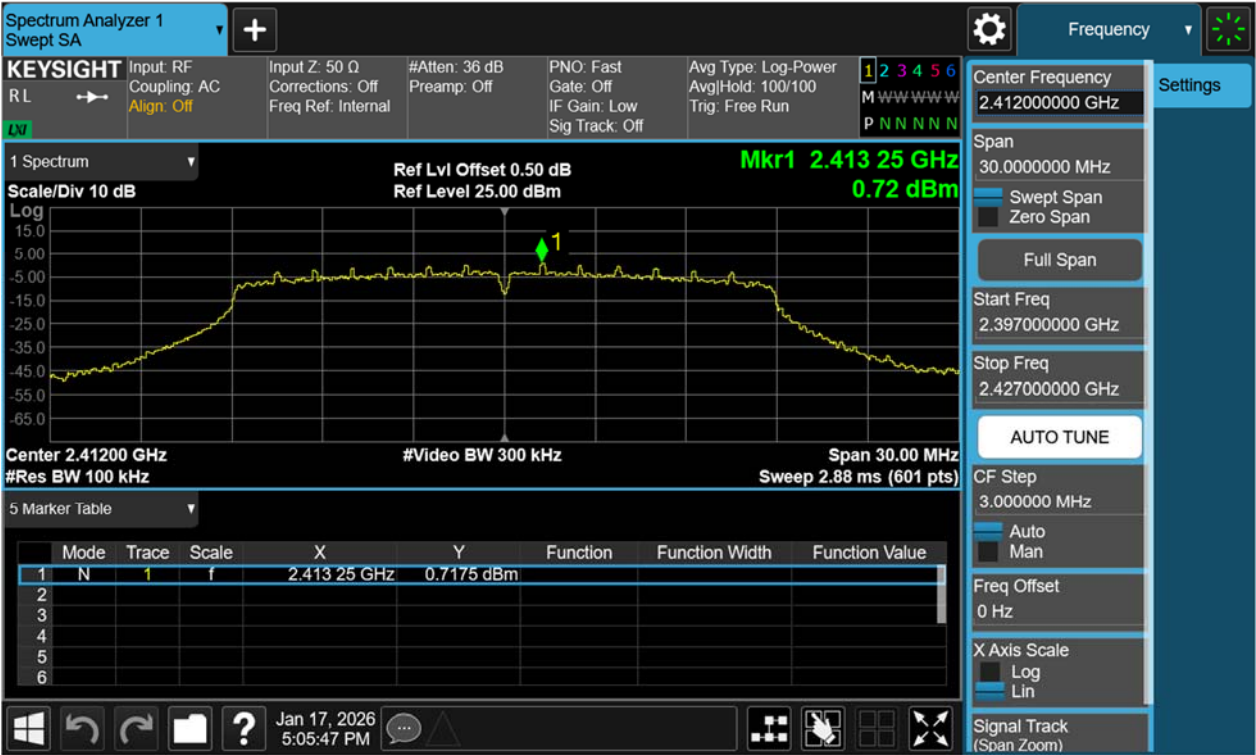


Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



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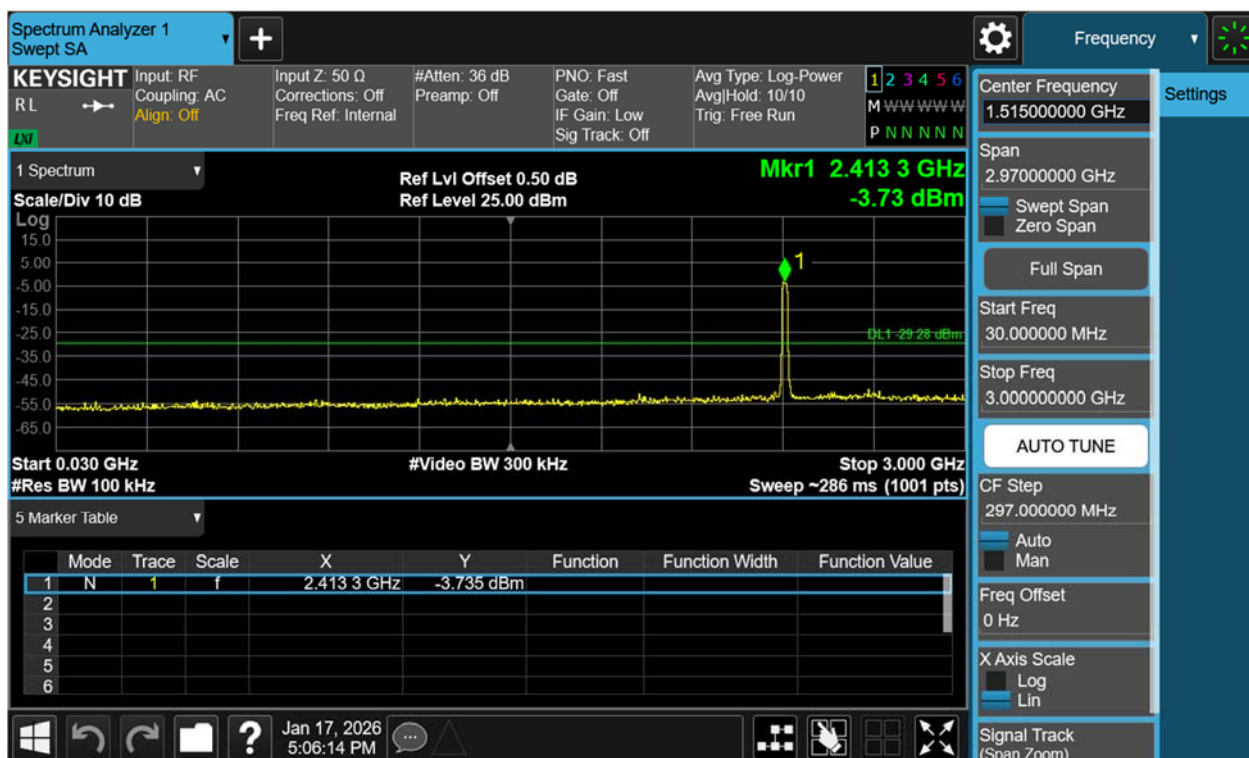
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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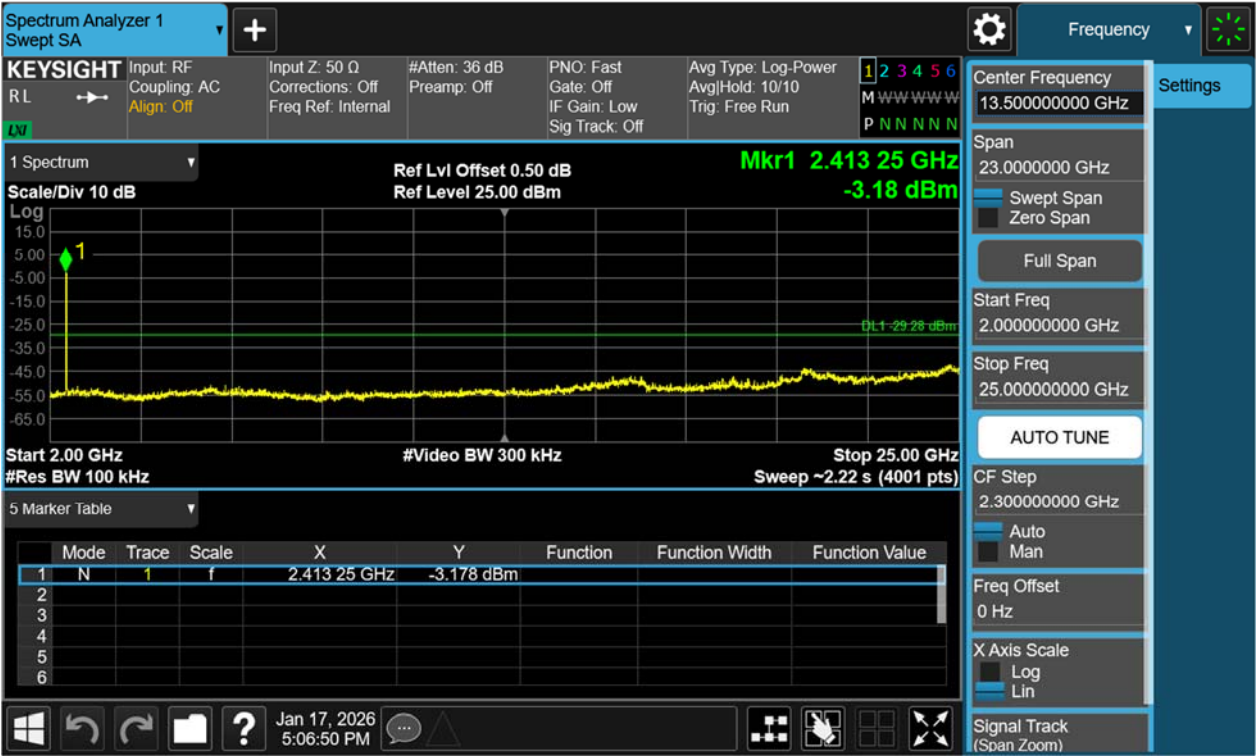


Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



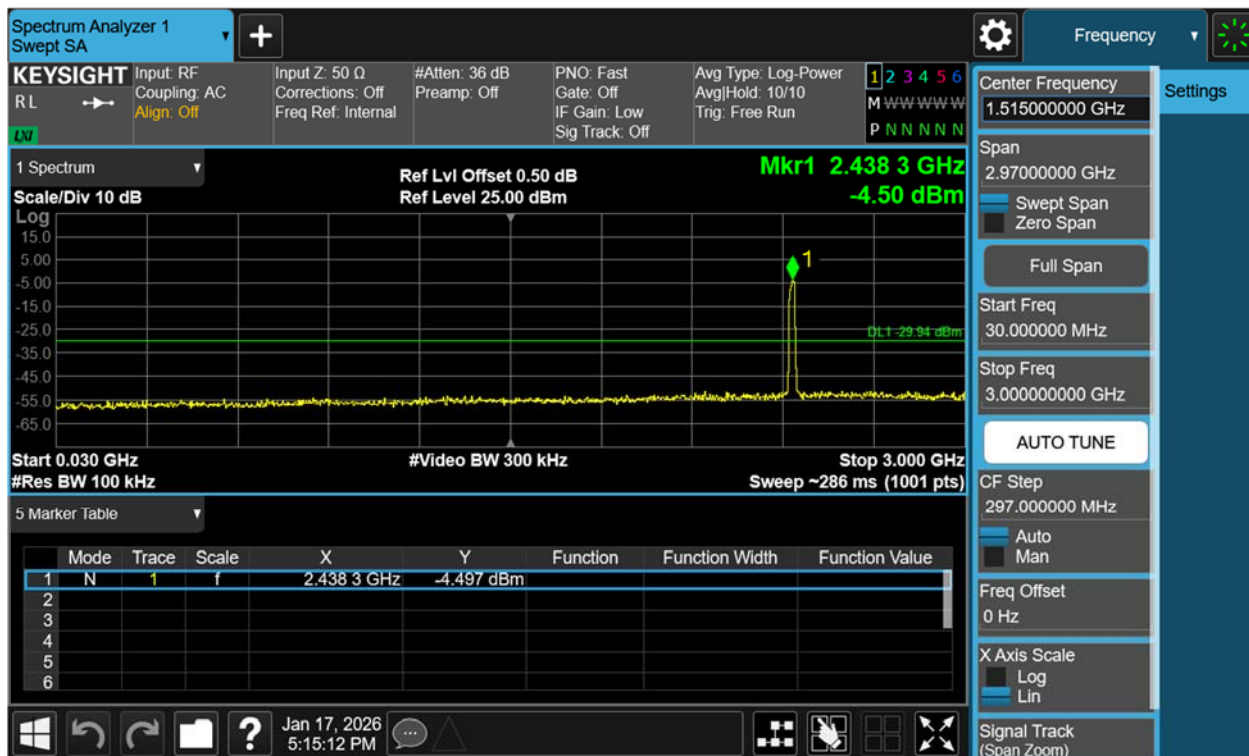
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Conducted spurious emissions 30MHz-25GHz



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



Band Edge



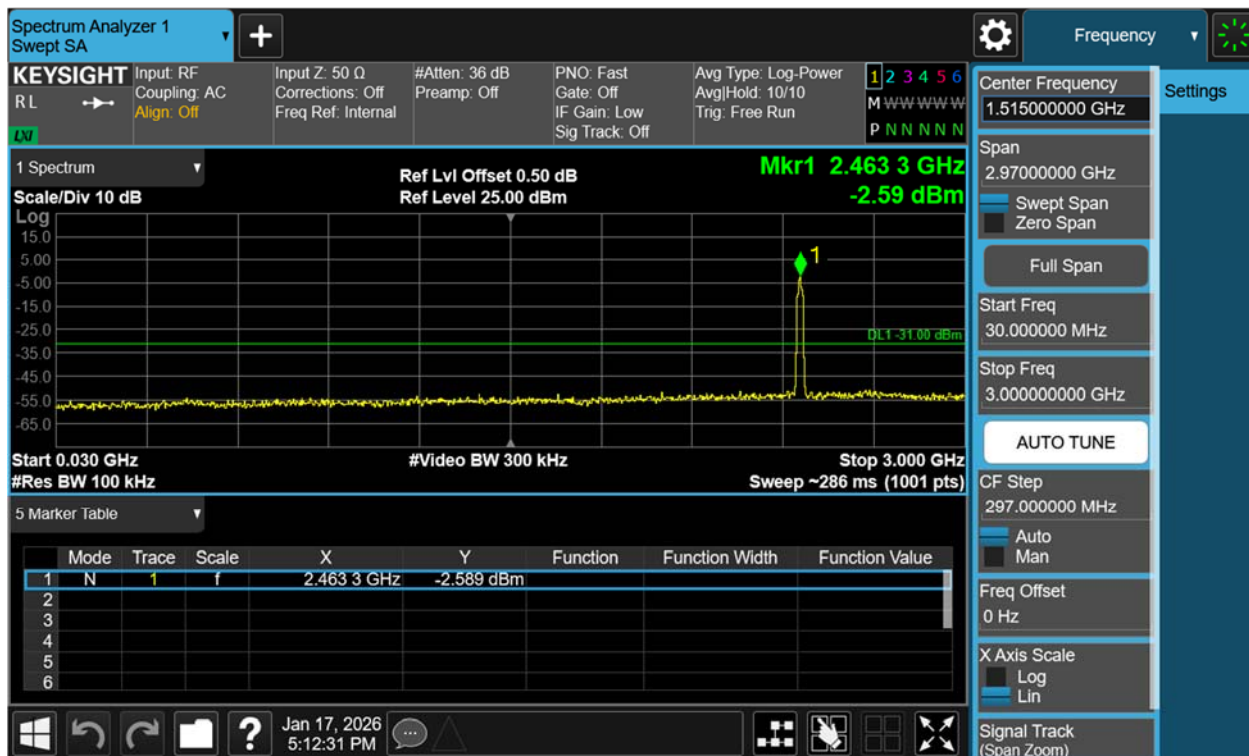
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Conducted spurious emissions 30MHz-25GHz



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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 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	: 22.3-22.6°C
Relative humidity	: 39.1-52%

Notes

Test plots please refer to the annex document "SHE25120030-02CE 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 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	: 22.3-22.6°C
Relative humidity	: 39.1-52%

Notes:

1. Test plots please refer to the annex document "SHE25120030-02CE 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 Clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: DC 12V 2A supply by AC adapter (which received AC 120V, 60Hz)
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 20.1°C
Relative humidity	: 52%

For details refer to following test plot.

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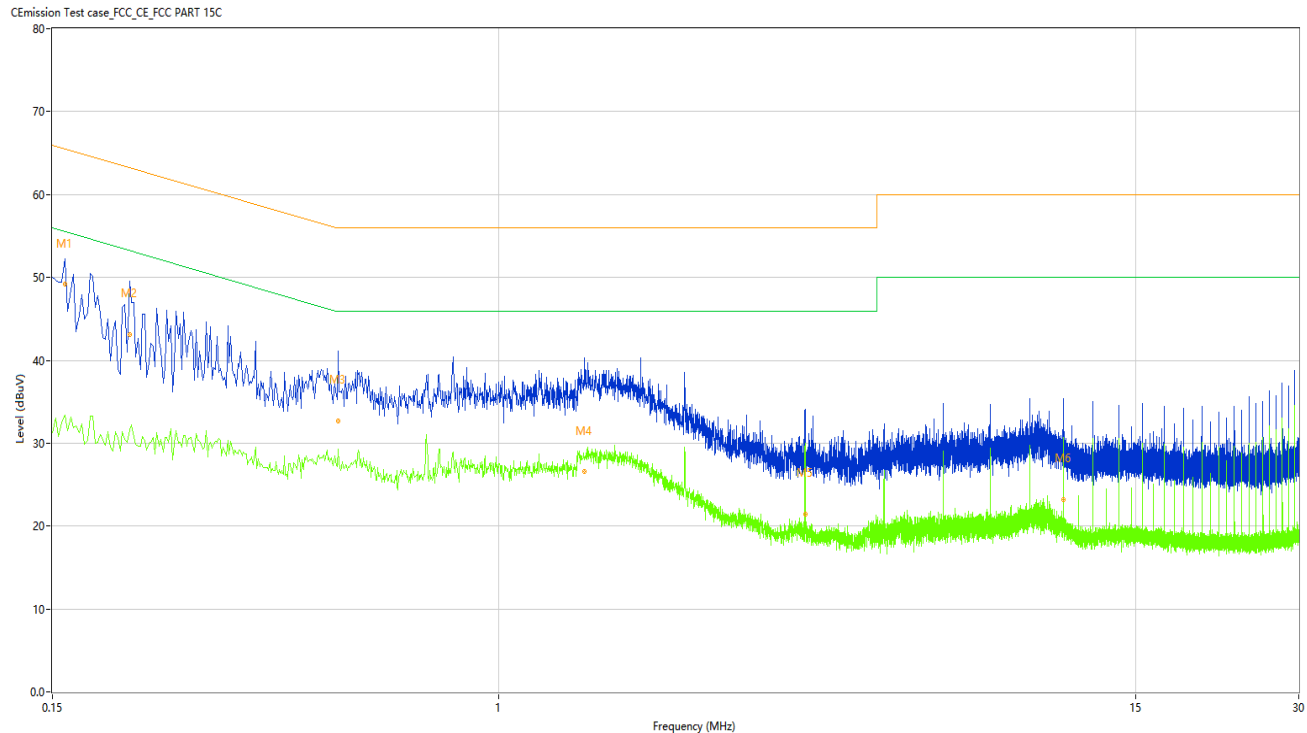
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 28: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.158	55.15	10.15	65.57	10.42	Peak	L	Pass
1*	0.158	49.30	10.15	65.57	16.27	QP	L	Pass
1**	0.158	33.29	10.15	55.57	22.28	AV	L	Pass
2	0.208	49.61	10.20	63.28	13.67	Peak	L	Pass
2*	0.208	43.10	10.20	63.28	20.18	QP	L	Pass
2**	0.208	31.54	10.20	53.28	21.74	AV	L	Pass
3	0.506	39.15	10.09	56.00	16.85	Peak	L	Pass
3*	0.506	32.67	10.09	56.00	23.33	QP	L	Pass
3**	0.506	29.20	10.09	46.00	16.80	AV	L	Pass
4	1.442	36.27	9.94	56.00	19.73	Peak	L	Pass
4*	1.442	26.59	9.94	56.00	29.41	QP	L	Pass
4**	1.442	28.12	9.94	46.00	17.88	AV	L	Pass
5	3.680	30.31	10.10	56.00	25.69	Peak	L	Pass
5*	3.680	21.42	10.10	56.00	34.58	QP	L	Pass
5**	3.680	29.63	10.10	46.00	16.37	AV	L	Pass
6	11.036	28.81	10.47	60.00	31.19	Peak	L	Pass
6*	11.036	23.16	10.47	60.00	36.84	QP	L	Pass
6**	11.036	30.65	10.47	50.00	19.35	AV	L	Pass

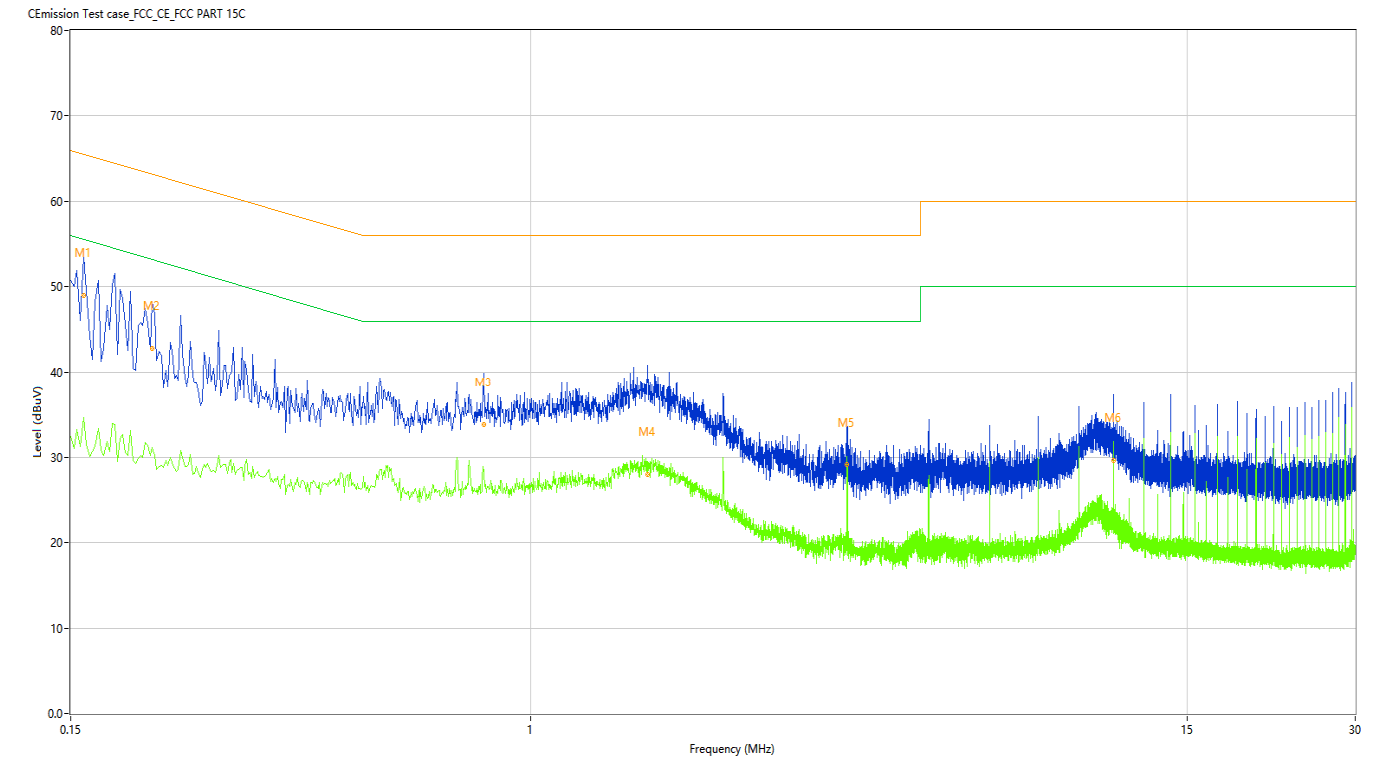
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Figure 29: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	56.03	10.17	65.57	9.54	Peak	N	Pass
1*	0.158	49.03	10.17	65.57	16.54	QP	N	Pass
1**	0.158	34.63	10.17	55.57	20.94	AV	N	Pass
2	0.210	48.60	10.19	63.21	14.61	Peak	N	Pass
2*	0.210	42.78	10.19	63.21	20.43	QP	N	Pass
2**	0.210	31.14	10.19	53.21	22.07	AV	N	Pass
3	0.826	39.04	10.16	56.00	16.96	Peak	N	Pass
3*	0.826	33.81	10.16	56.00	22.19	QP	N	Pass
3**	0.826	28.17	10.16	46.00	17.83	AV	N	Pass
4	1.618	39.73	9.99	56.00	16.27	Peak	N	Pass
4*	1.618	27.95	9.99	56.00	28.05	QP	N	Pass
4**	1.618	28.23	9.99	46.00	17.77	AV	N	Pass
5	3.690	34.43	10.12	56.00	21.57	Peak	N	Pass
5*	3.690	29.10	10.12	56.00	26.90	QP	N	Pass
5**	3.690	30.01	10.12	46.00	15.99	AV	N	Pass
6	11.074	37.07	10.51	60.00	22.93	Peak	N	Pass
6*	11.074	29.55	10.51	60.00	30.45	QP	N	Pass
6**	11.074	28.18	10.51	50.00	21.82	AV	N	Pass

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5 Appendixes

5.1 External Photo of the Sample



All of the sample



Add a sample with only color differences

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Adapter 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



Port of the sample

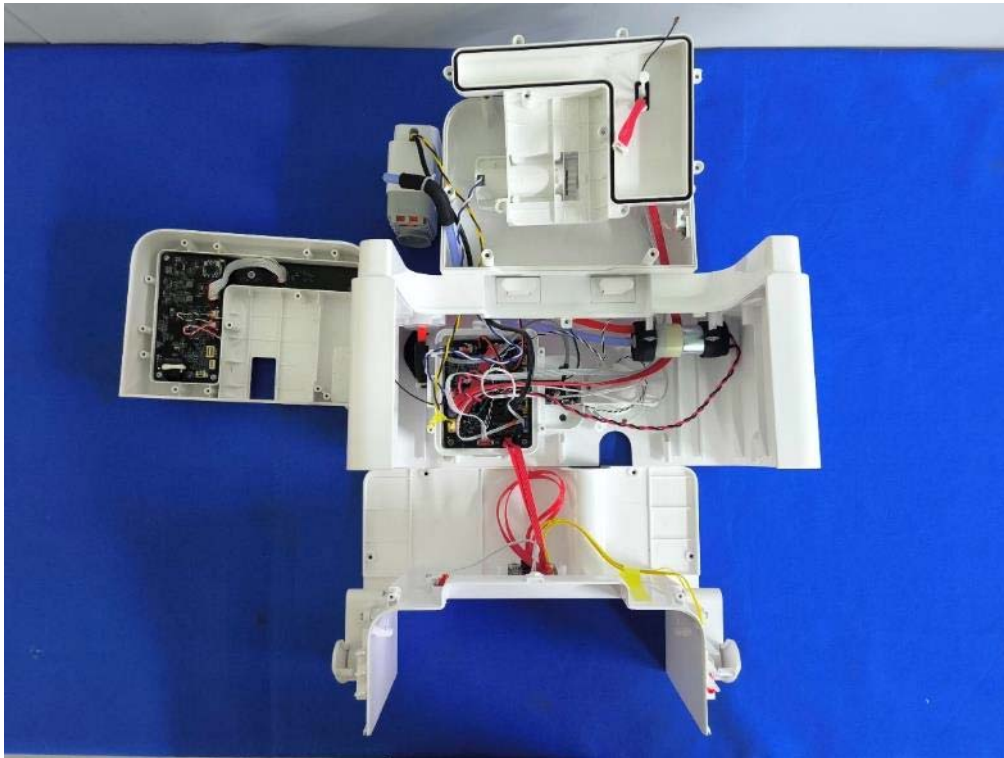
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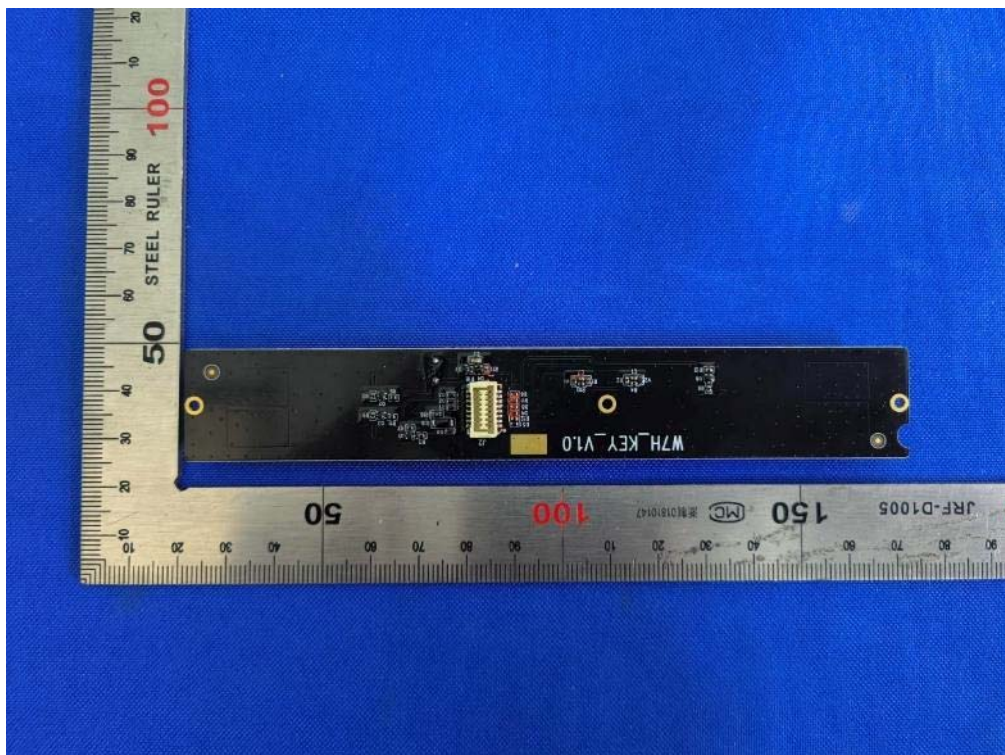
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5.2 Internal Photo of the Sample



Open-1 of the sample



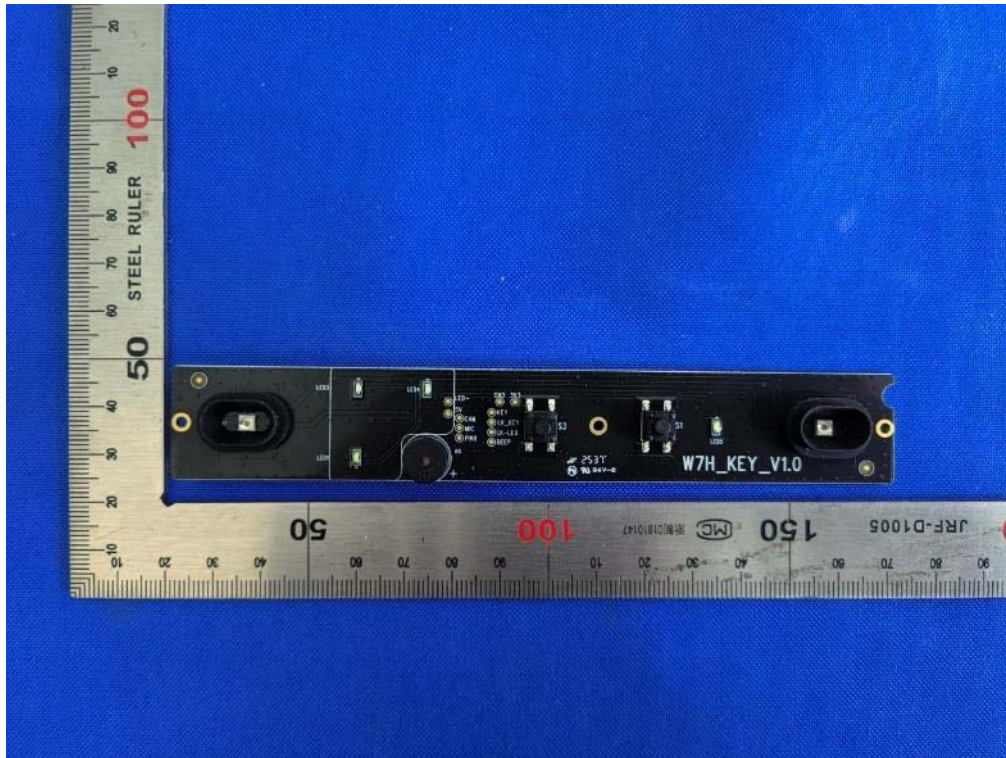
Internal-1 of the sample

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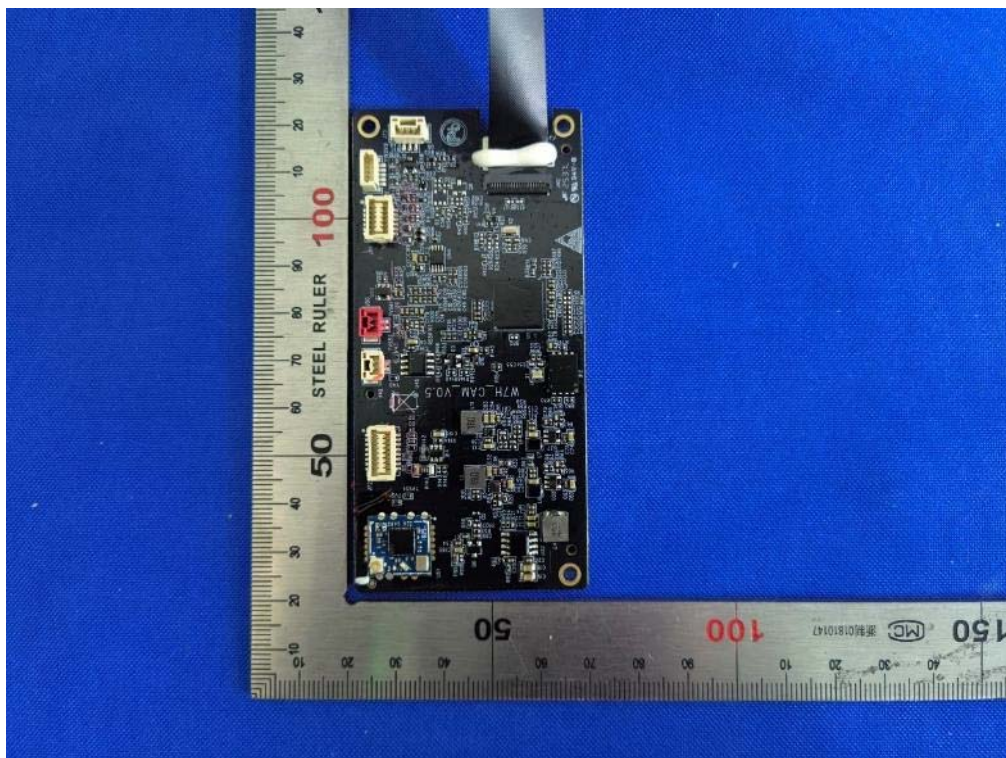
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Internal-2 of the sample



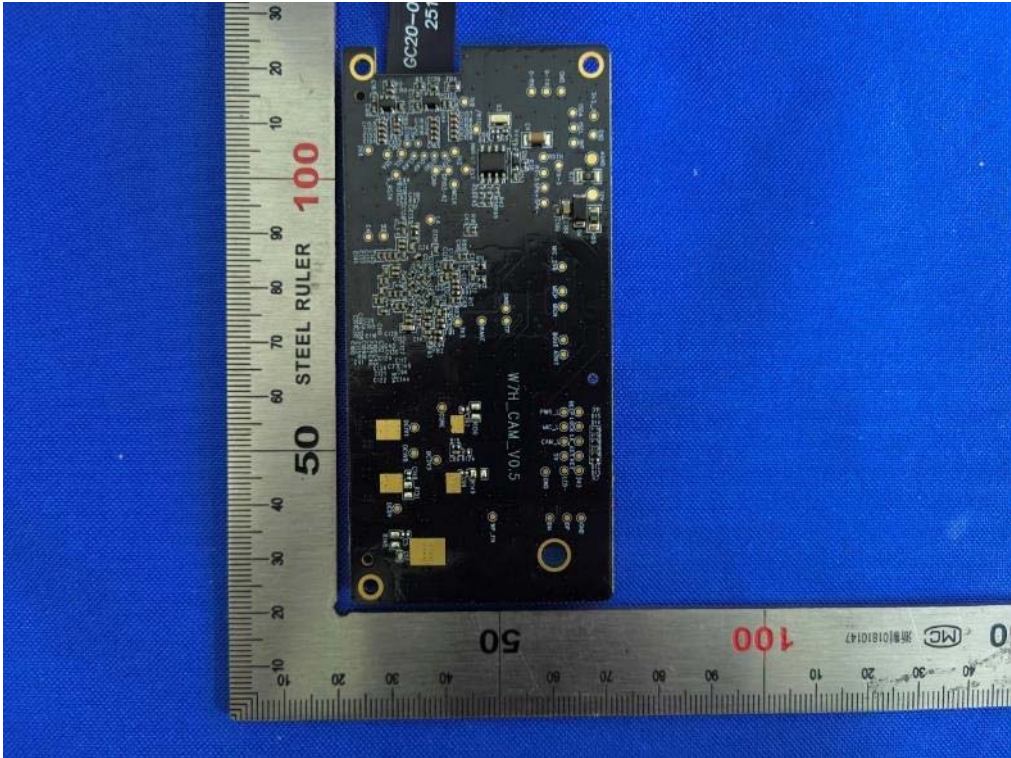
Internal-3 of the sample

TEST REPORT

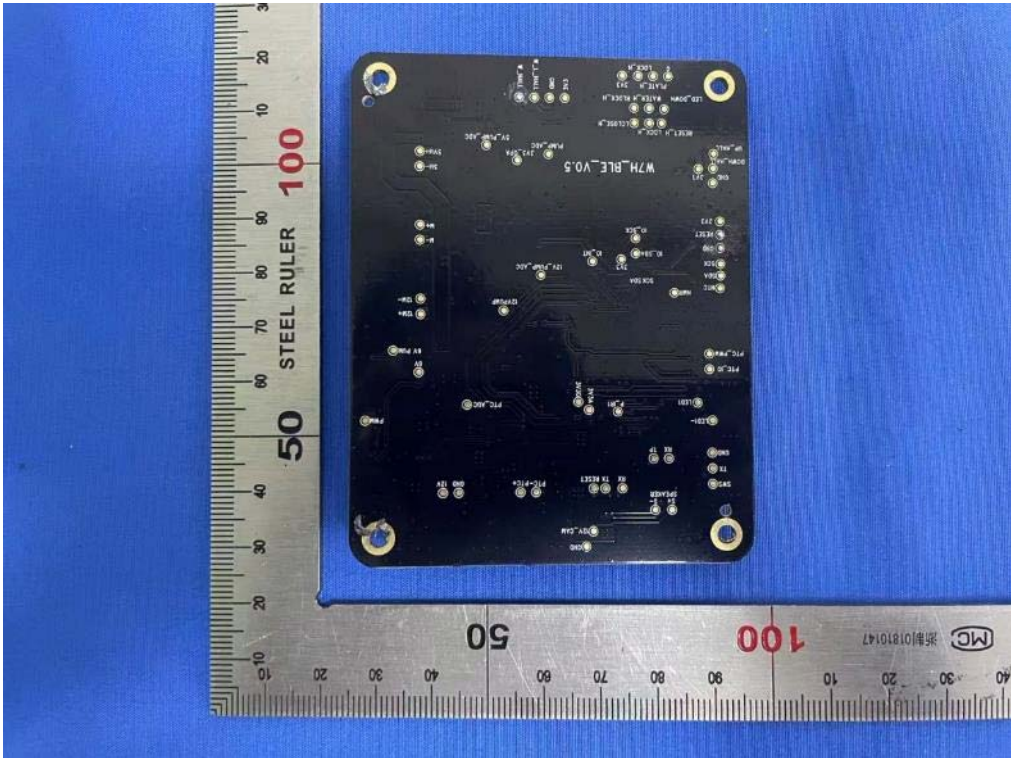
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Internal-4 of the sample



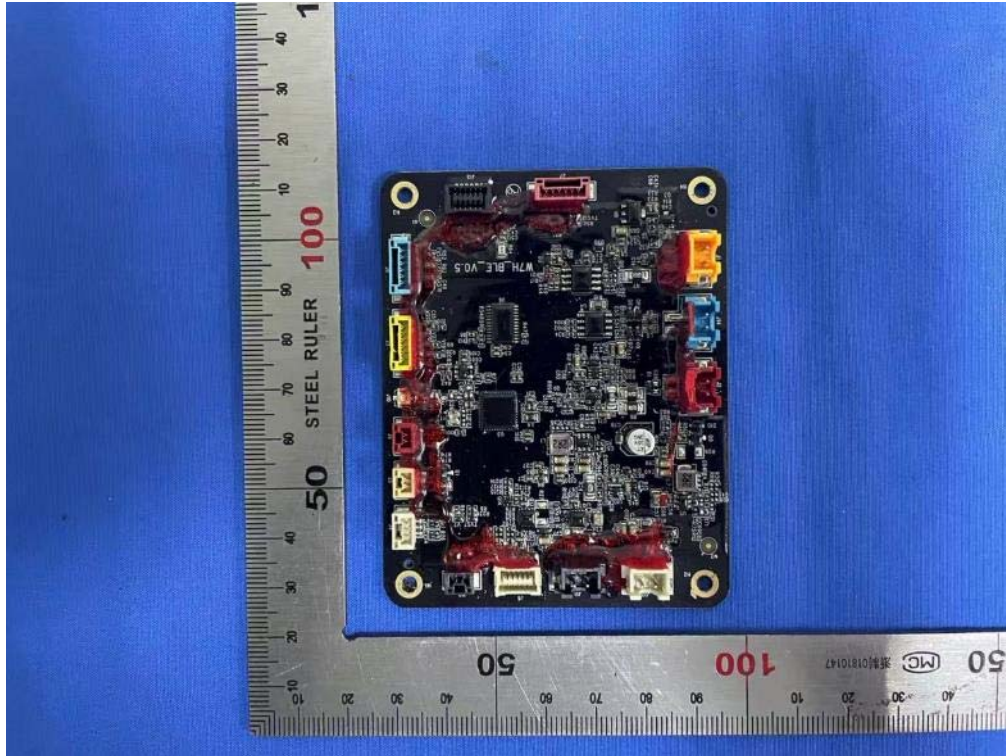
Internal-5 of the sample

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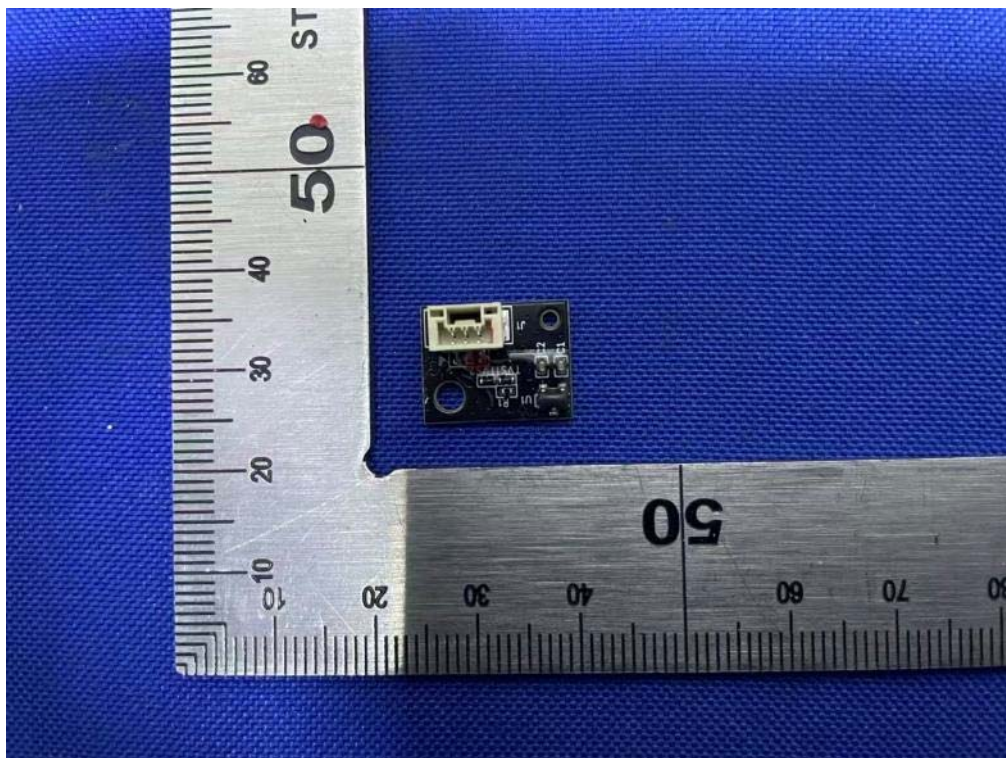
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Internal-6 of the sample



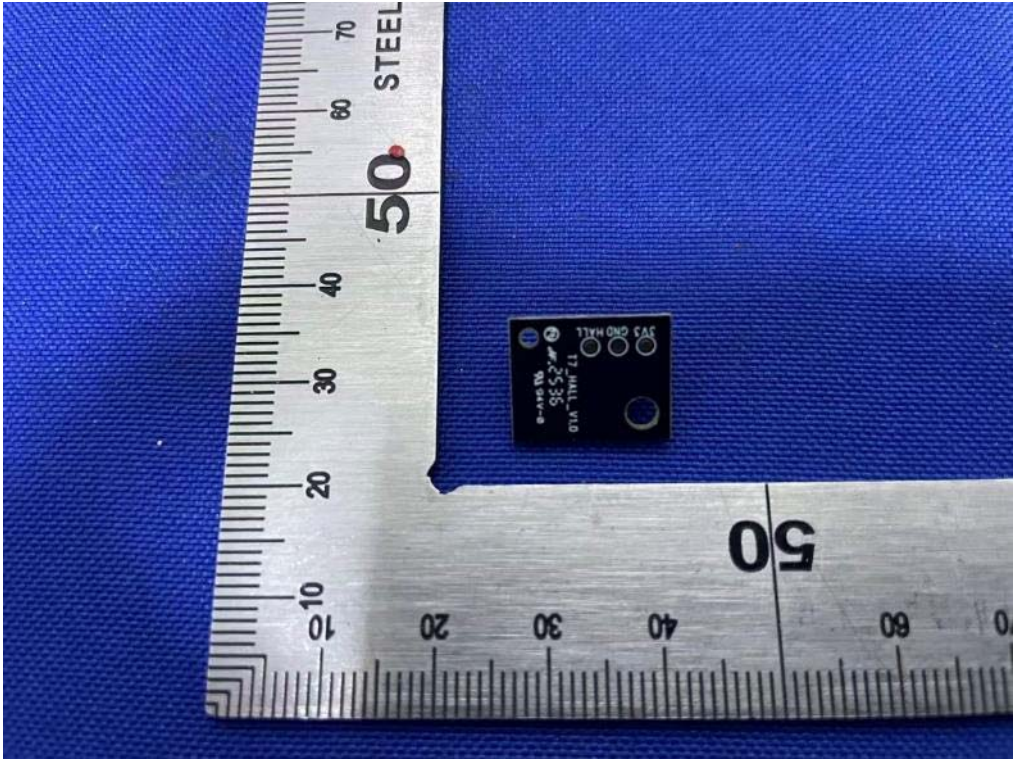
Internal-7 of the sample

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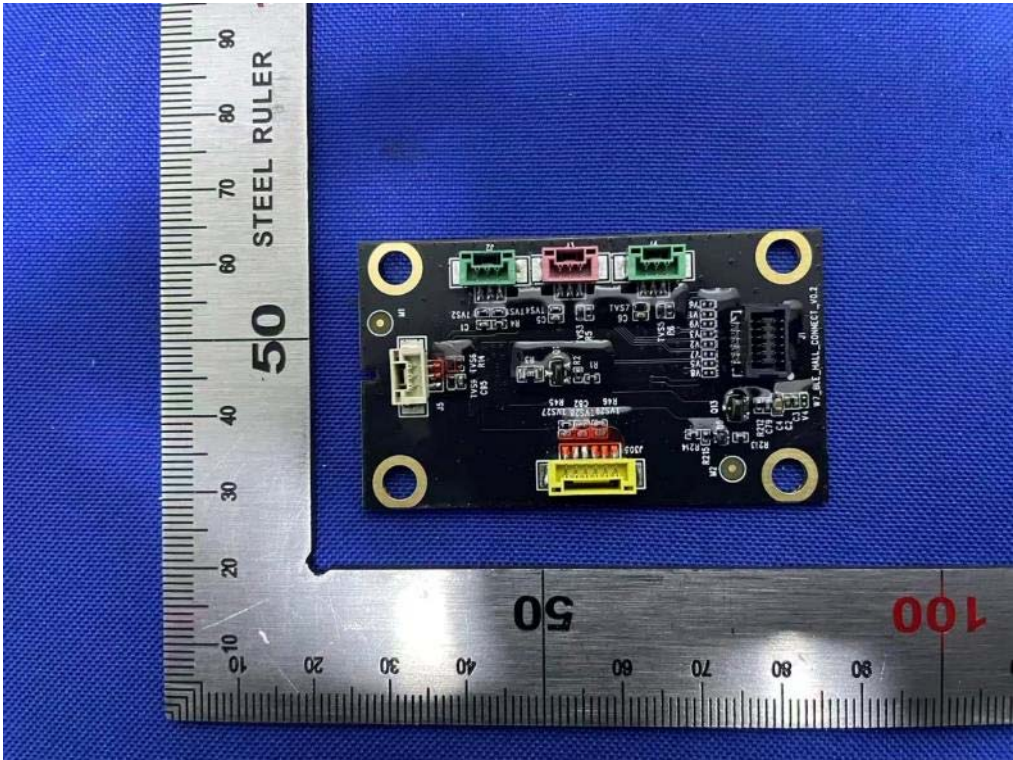
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Internal-8 of the sample



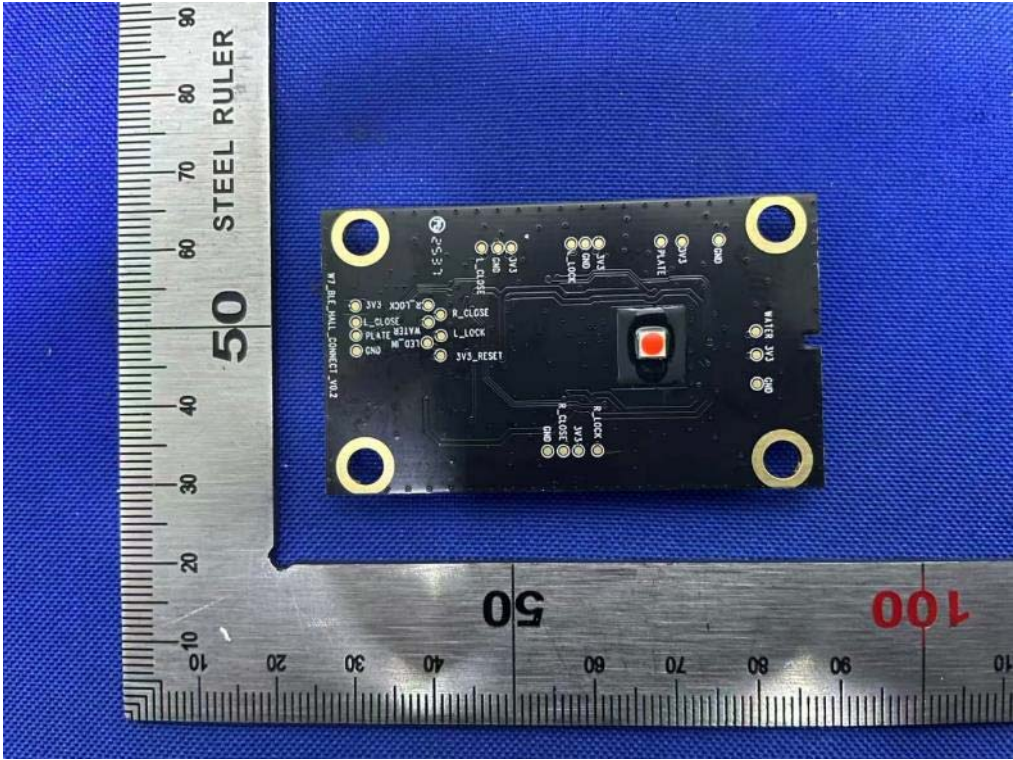
Internal-9 of the sample

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Internal-10 of the sample



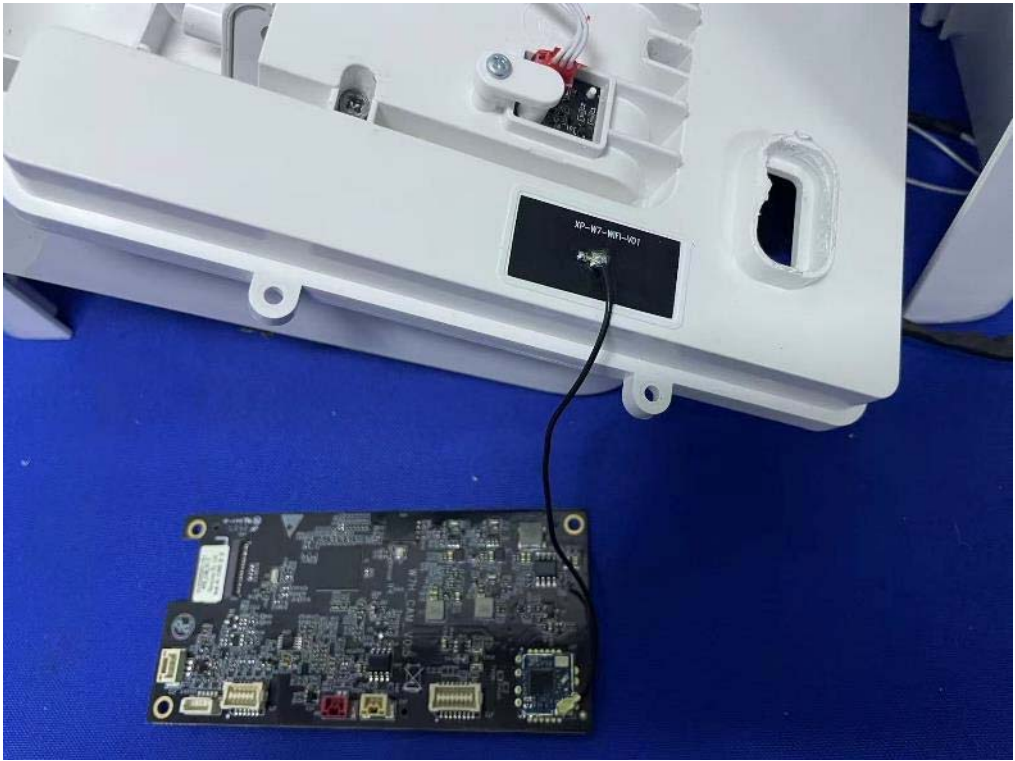
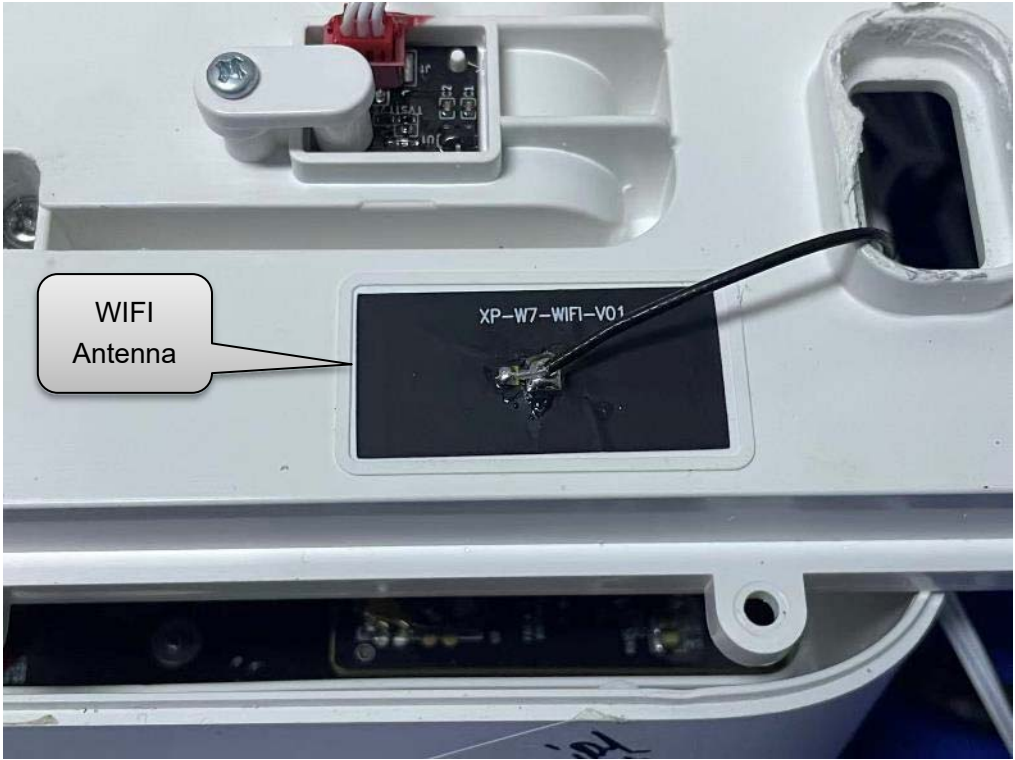
Bluetooth Antenna position

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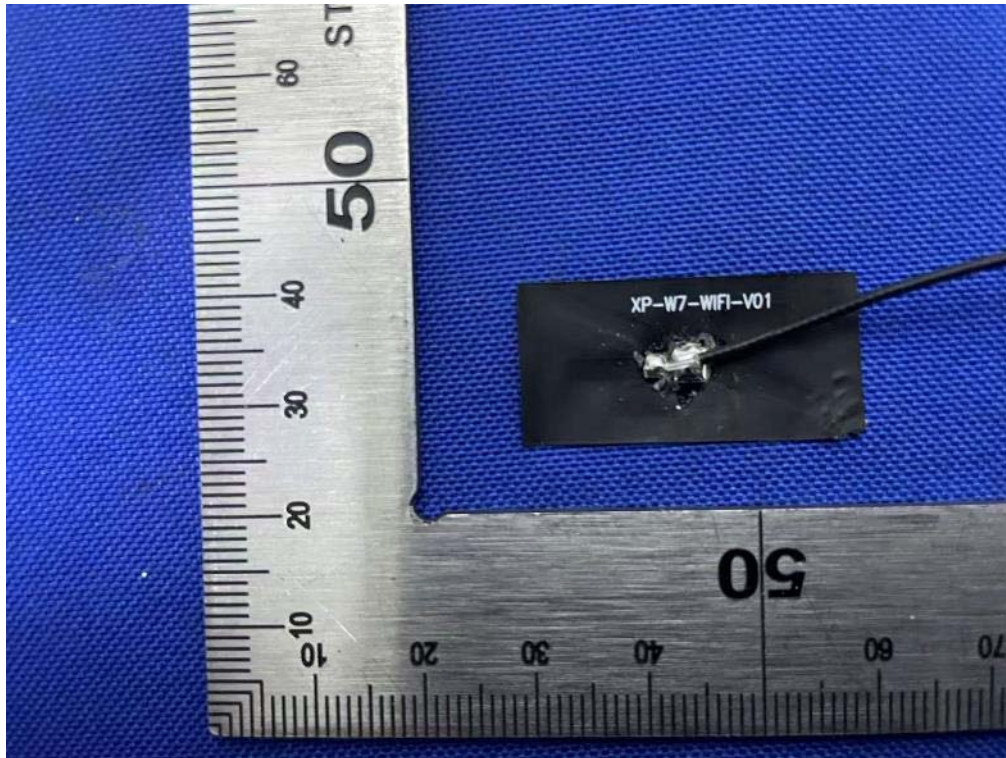
WIFI Antenna position

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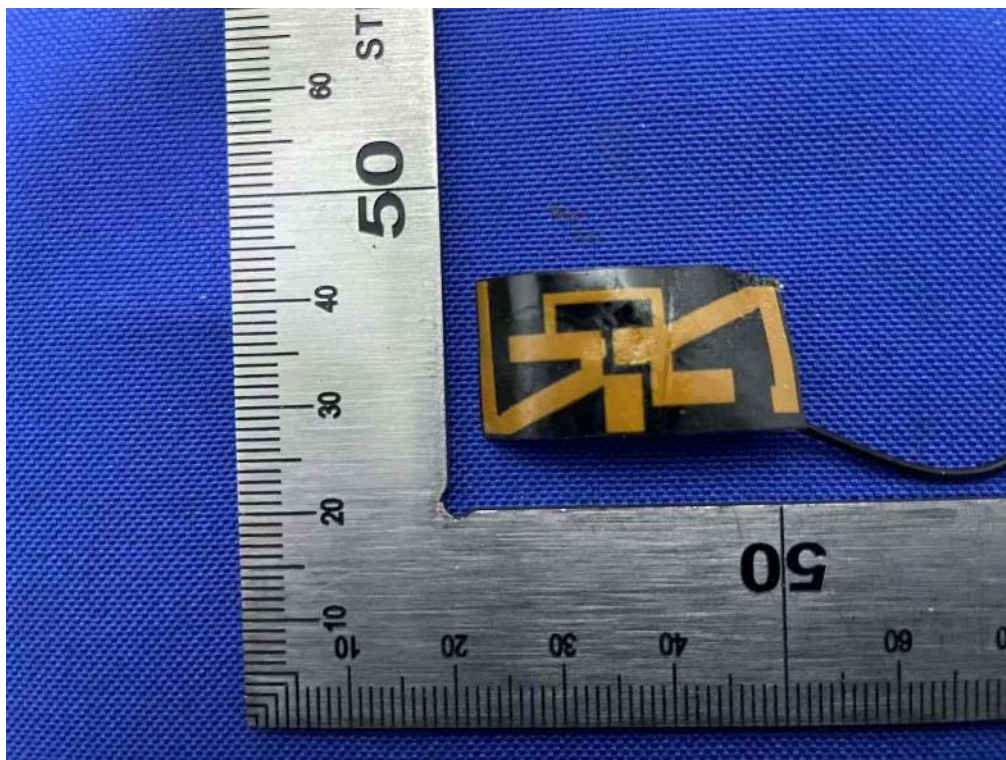
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WIFI Antenna-Front



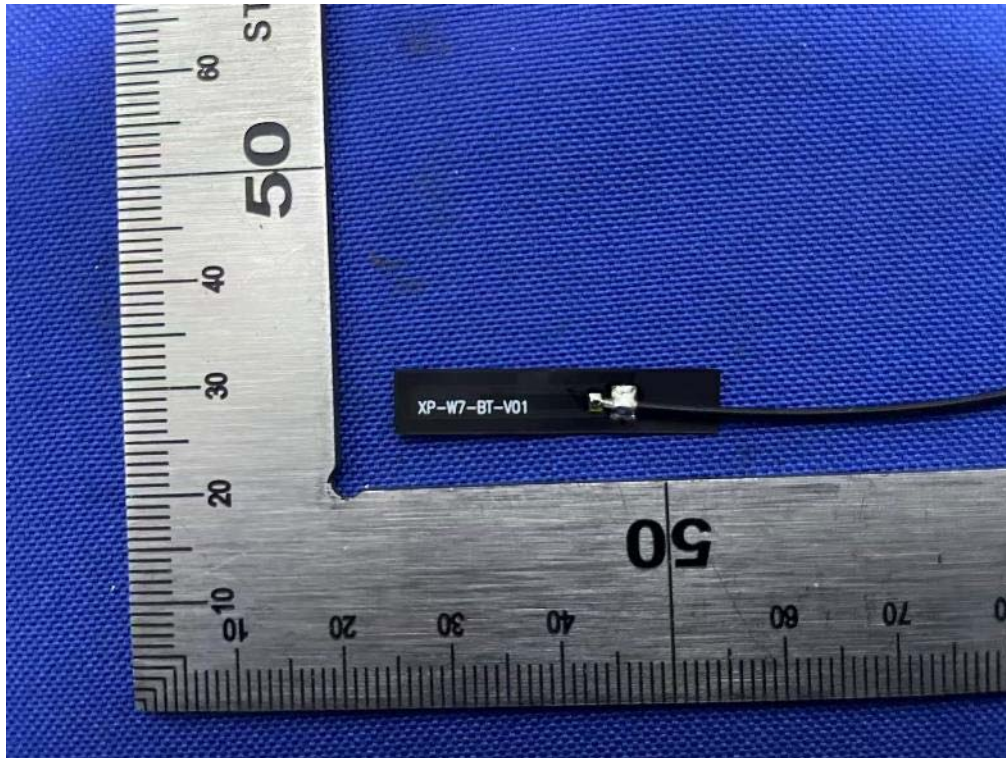
WIFI Antenna-Back

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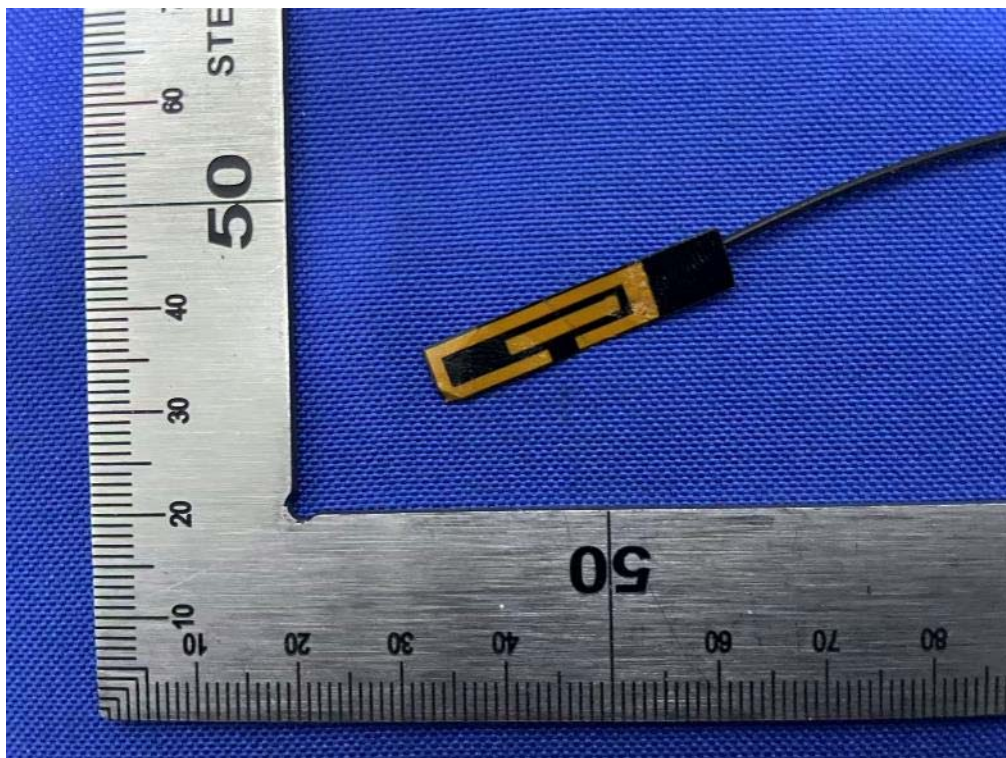
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Bluetooth Antenna-Front



Bluetooth Antenna-Back

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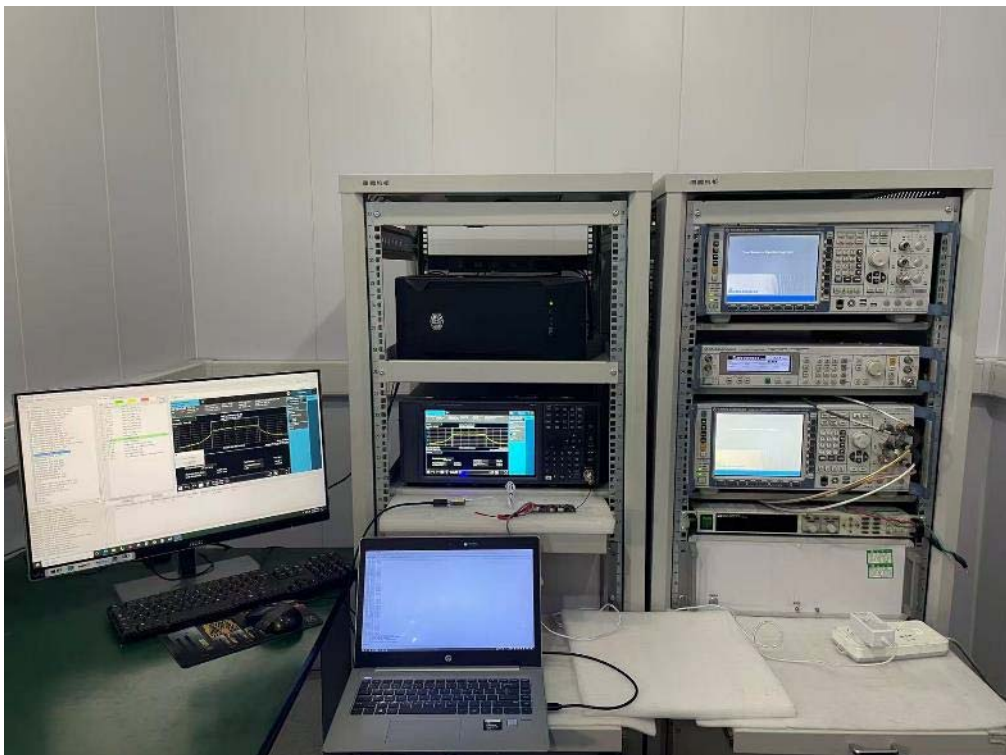
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5.3 Set-up for Conducted Emissions



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