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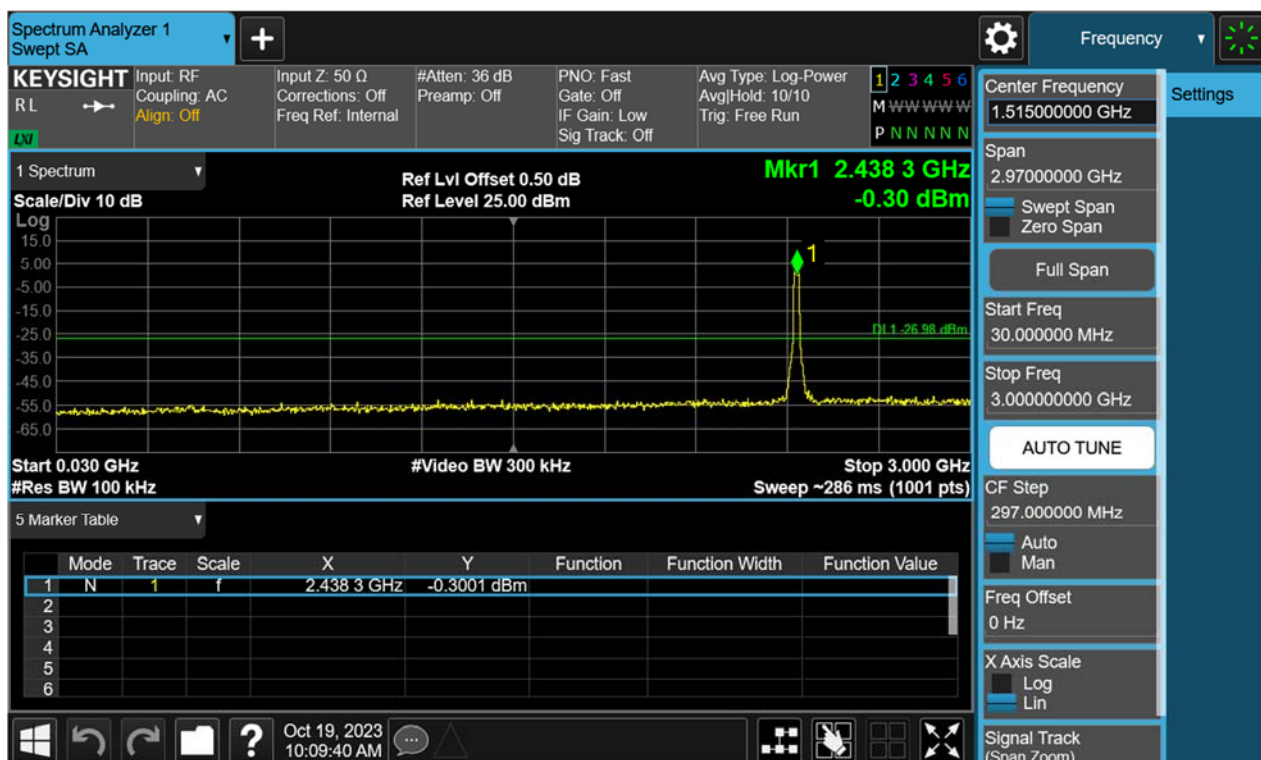
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Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



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Figure 33: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 34: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



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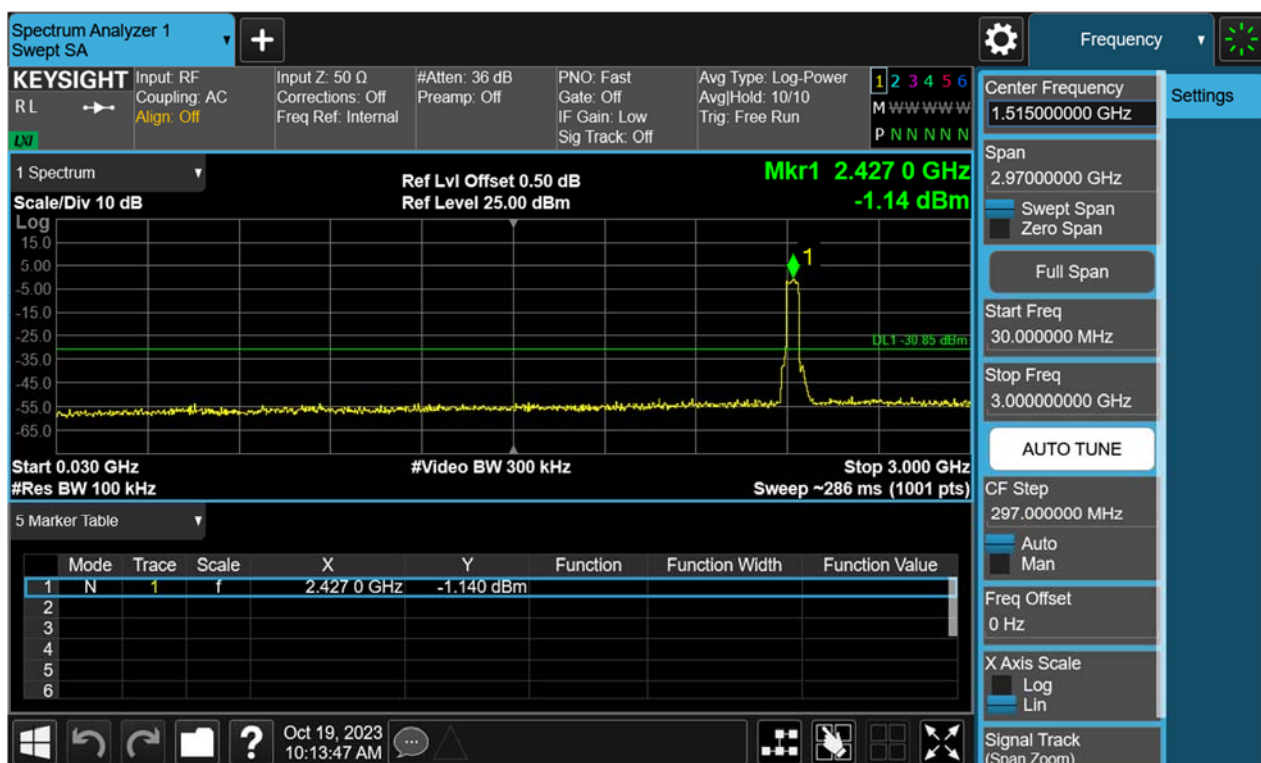
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 35: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2437MHz Carrier Level



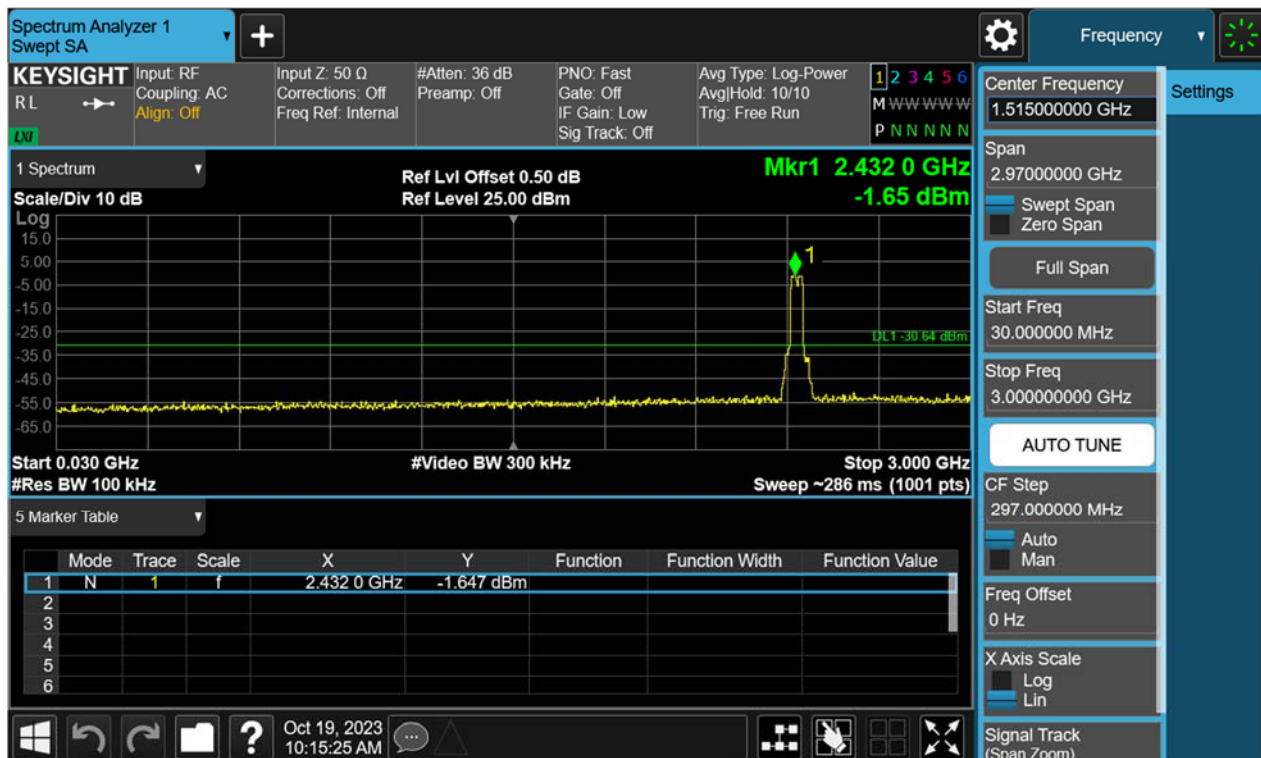
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Conducted spurious emissions 30MHz-25GHz



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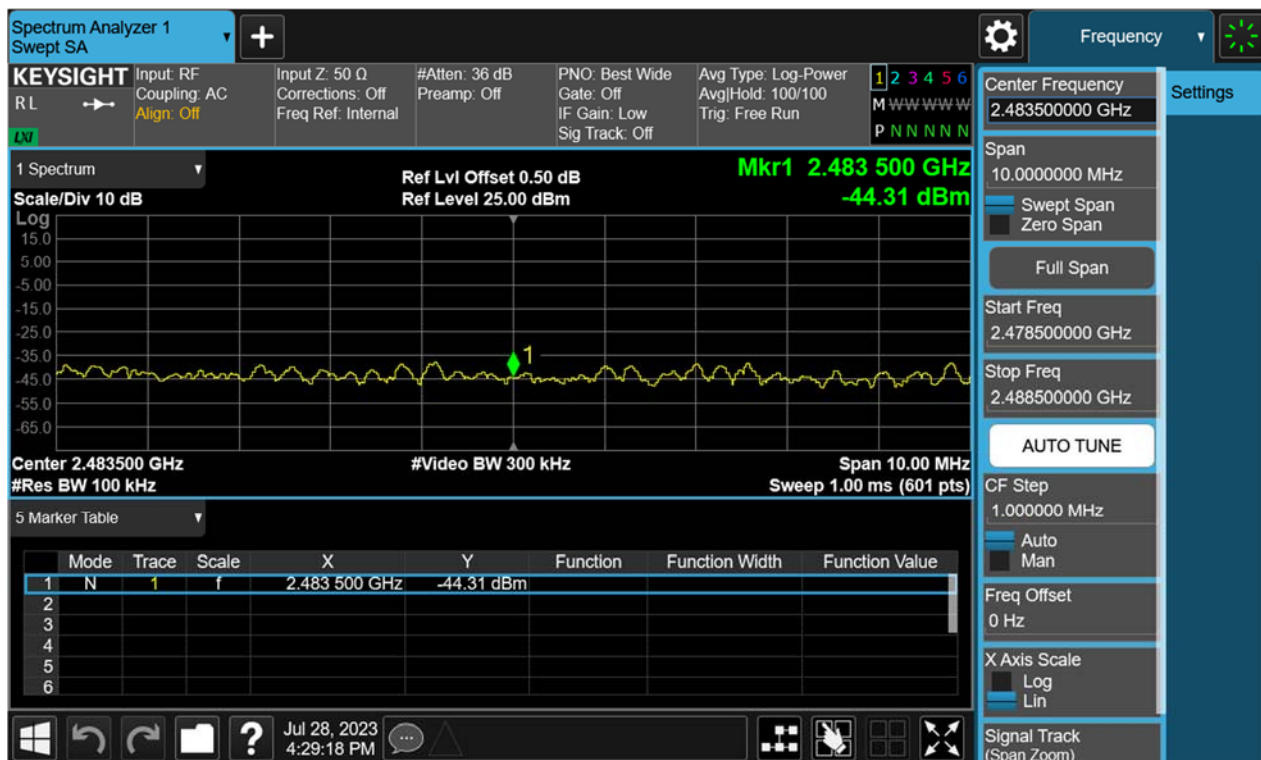
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



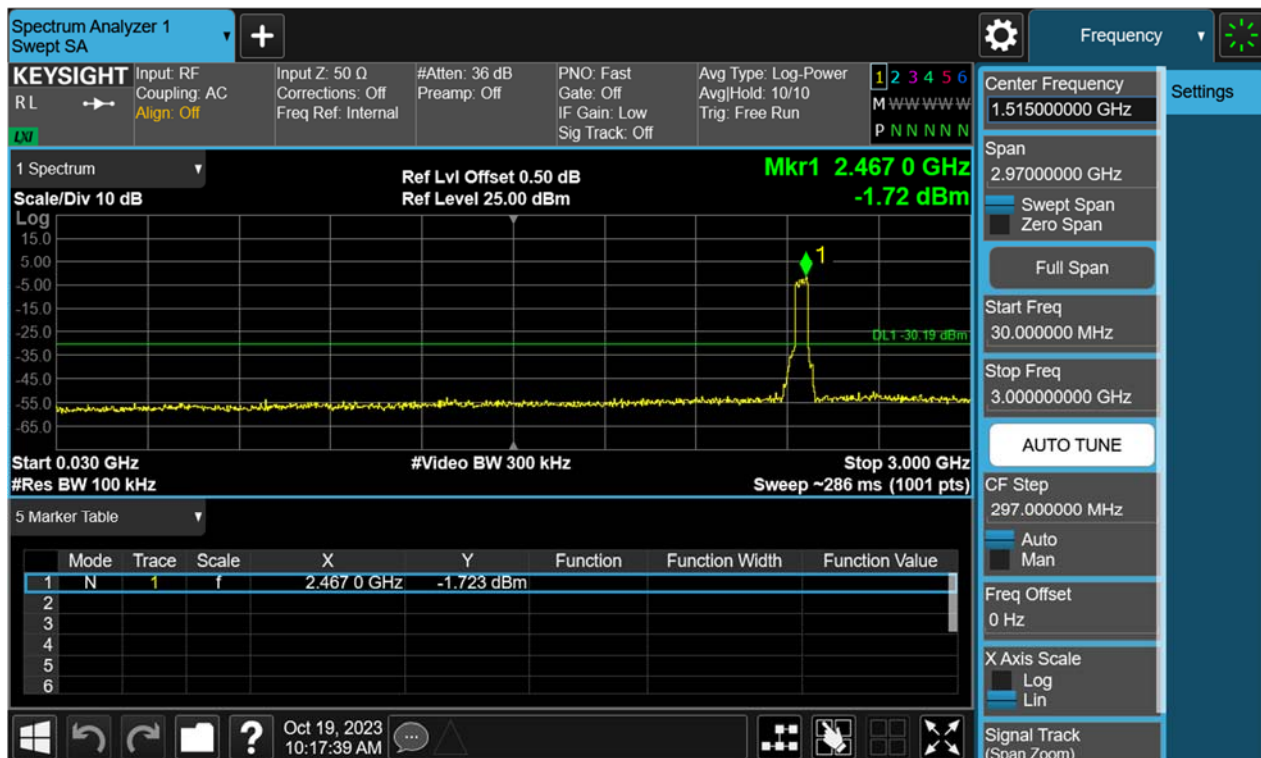
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013, 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°C
Relative humidity	: 57%

Notes

Test plots please refer to the annex document "SHE23060106-01BE 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 C63.10-2013, 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	: 22.4°C
Relative humidity	: 55%

Notes:

1. Test plots please refer to the annex document "SHE23060106-01BE 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	: which received AC 120V, 60Hz Power
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 21°C
Relative humidity	: 50%

For details refer to following test plot.

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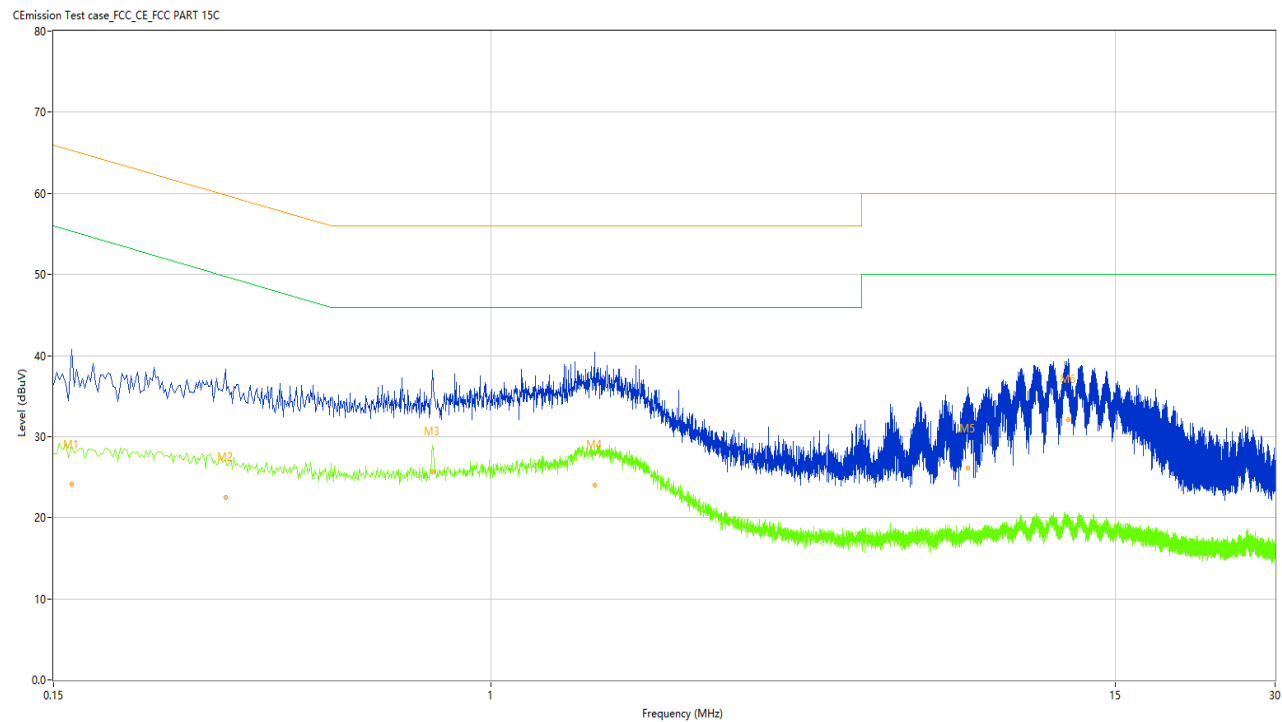
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 28: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	31.23	9.94	65.36	34.13	Peak	L	Pass
1*	0.162	24.12	9.94	65.36	41.24	QP	L	Pass
1**	0.162	28.87	9.94	55.36	26.49	AV	L	Pass
2	0.316	31.74	9.97	59.81	28.07	Peak	L	Pass
2*	0.316	22.48	9.97	59.81	37.33	QP	L	Pass
2**	0.316	26.99	9.97	49.81	22.82	AV	L	Pass
3	0.776	31.36	9.94	56.00	24.64	Peak	L	Pass
3*	0.776	25.56	9.94	56.00	30.44	QP	L	Pass
3**	0.776	28.91	9.94	46.00	17.09	AV	L	Pass
4	1.566	31.65	9.85	56.00	24.35	Peak	L	Pass
4*	1.566	24.00	9.85	56.00	32.00	QP	L	Pass
4**	1.566	27.60	9.85	46.00	18.40	AV	L	Pass
5	7.908	34.57	9.75	60.00	25.43	Peak	L	Pass
5*	7.908	26.10	9.75	60.00	33.90	QP	L	Pass
5**	7.908	18.30	9.75	50.00	31.70	AV	L	Pass
6	12.238	38.58	9.62	60.00	21.42	Peak	L	Pass
6*	12.238	32.03	9.62	60.00	27.97	QP	L	Pass
6**	12.238	19.27	9.62	50.00	30.73	AV	L	Pass

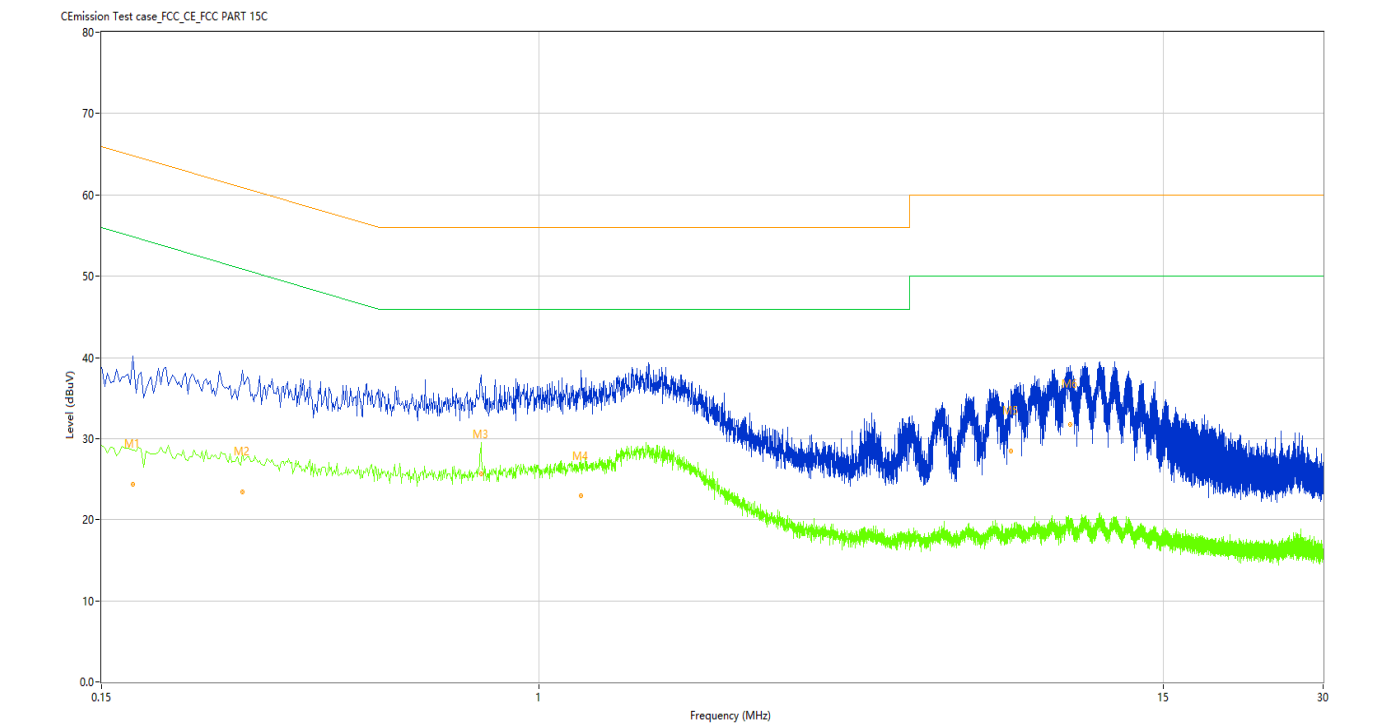
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Figure 29: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	31.92	10.02	64.86	32.94	Peak	N	Pass
1*	0.172	24.37	10.02	64.86	40.49	QP	N	Pass
1**	0.172	28.58	10.02	54.86	26.28	AV	N	Pass
2	0.276	31.31	10.06	60.94	29.63	Peak	N	Pass
2*	0.276	23.34	10.06	60.94	37.60	QP	N	Pass
2**	0.276	28.15	10.06	50.94	22.79	AV	N	Pass
3	0.778	32.27	10.04	56.00	23.73	Peak	N	Pass
3*	0.778	25.66	10.04	56.00	30.34	QP	N	Pass
3**	0.778	29.48	10.04	46.00	16.52	AV	N	Pass
4	1.200	32.60	9.95	56.00	23.40	Peak	N	Pass
4*	1.200	22.89	9.95	56.00	33.11	QP	N	Pass
4**	1.200	26.50	9.95	46.00	19.50	AV	N	Pass
5	7.750	35.60	9.82	60.00	24.40	Peak	N	Pass
5*	7.750	28.37	9.82	60.00	31.63	QP	N	Pass
5**	7.750	18.99	9.82	50.00	31.01	AV	N	Pass
6	10.008	38.23	9.75	60.00	21.77	Peak	N	Pass
6*	10.008	31.64	9.75	60.00	28.36	QP	N	Pass
6**	10.008	19.93	9.75	50.00	30.07	AV	N	Pass

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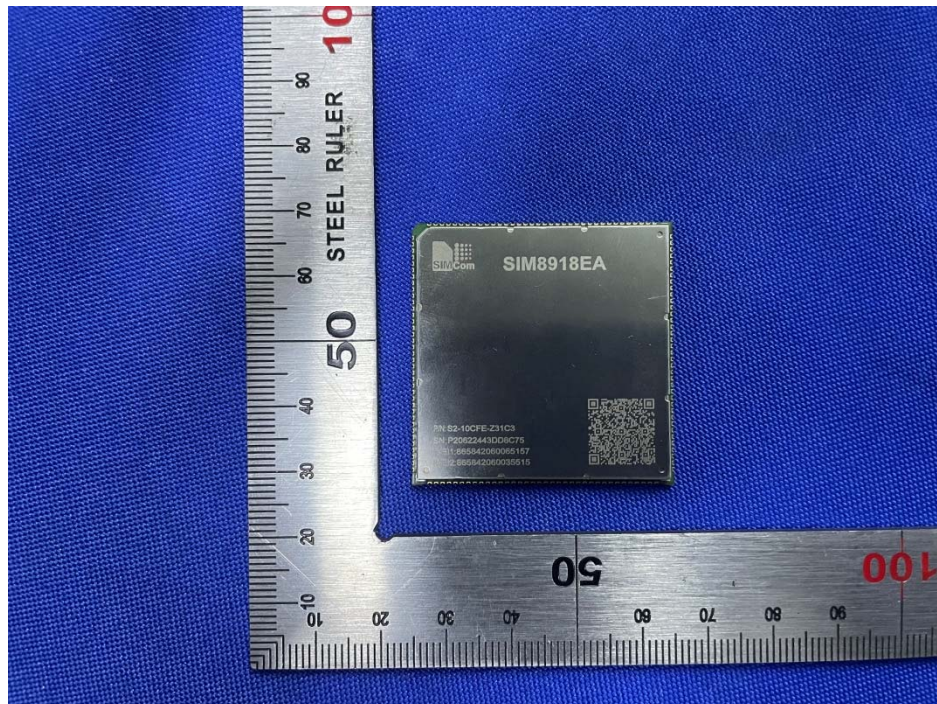
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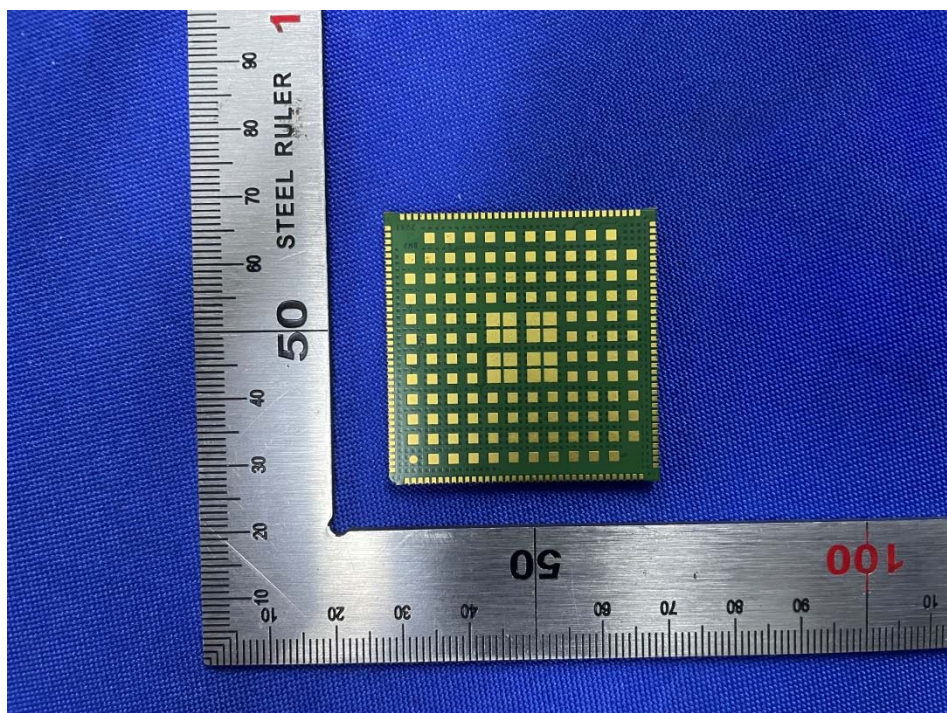
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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



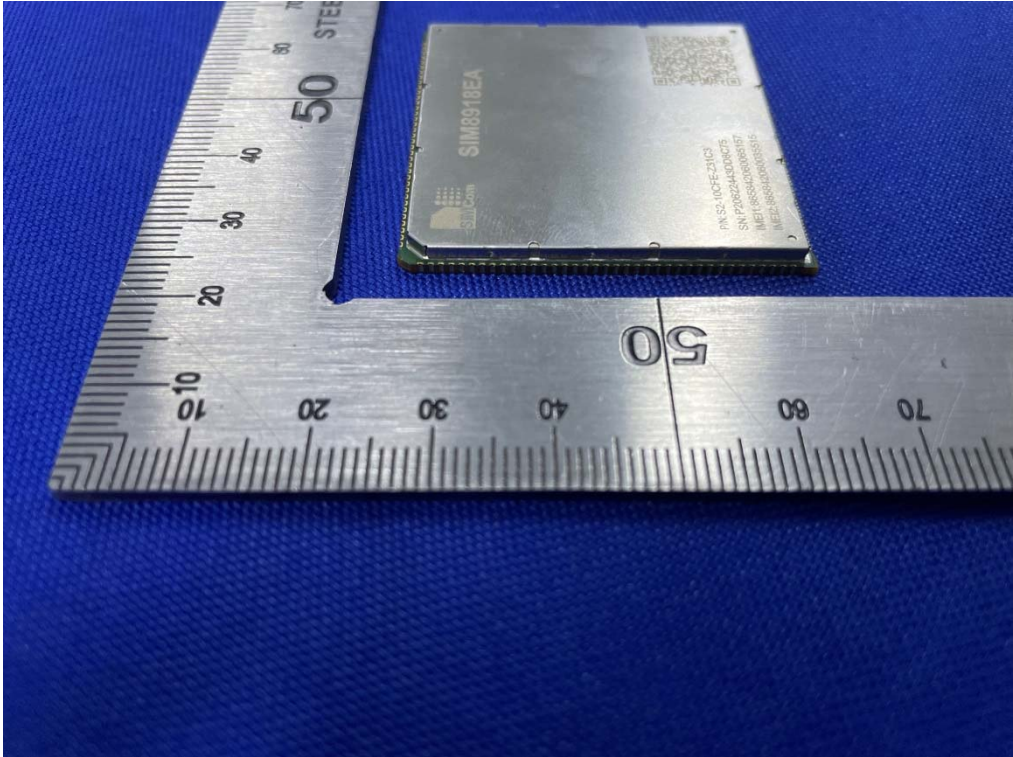
Rear of the sample

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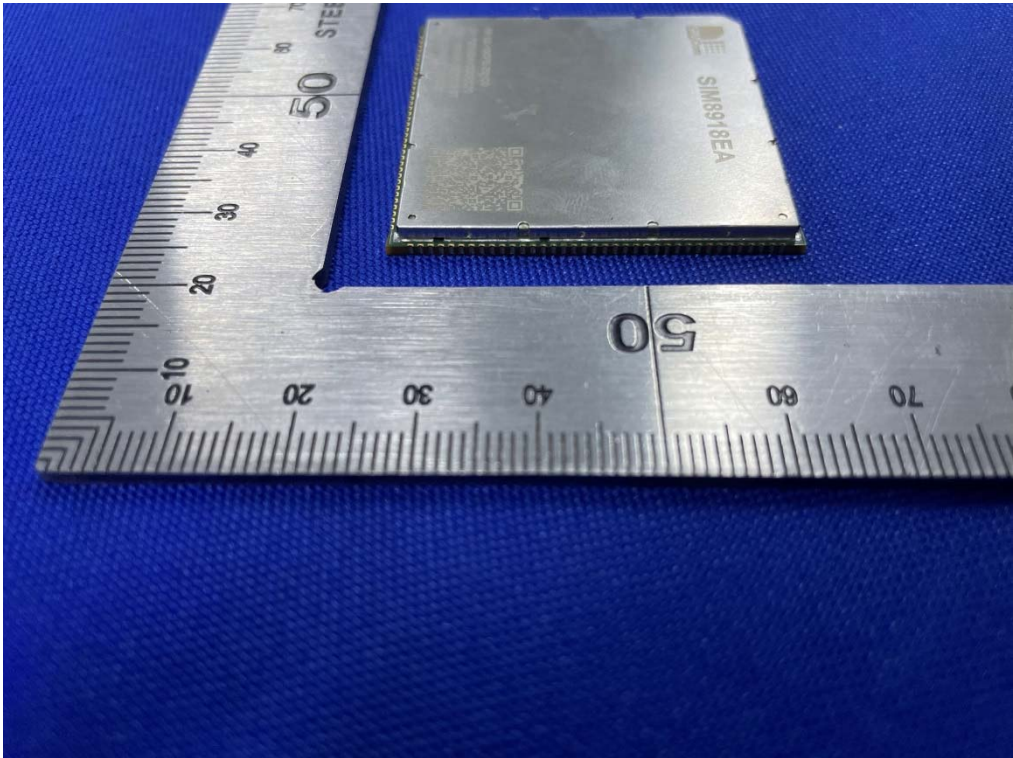
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Left of the sample



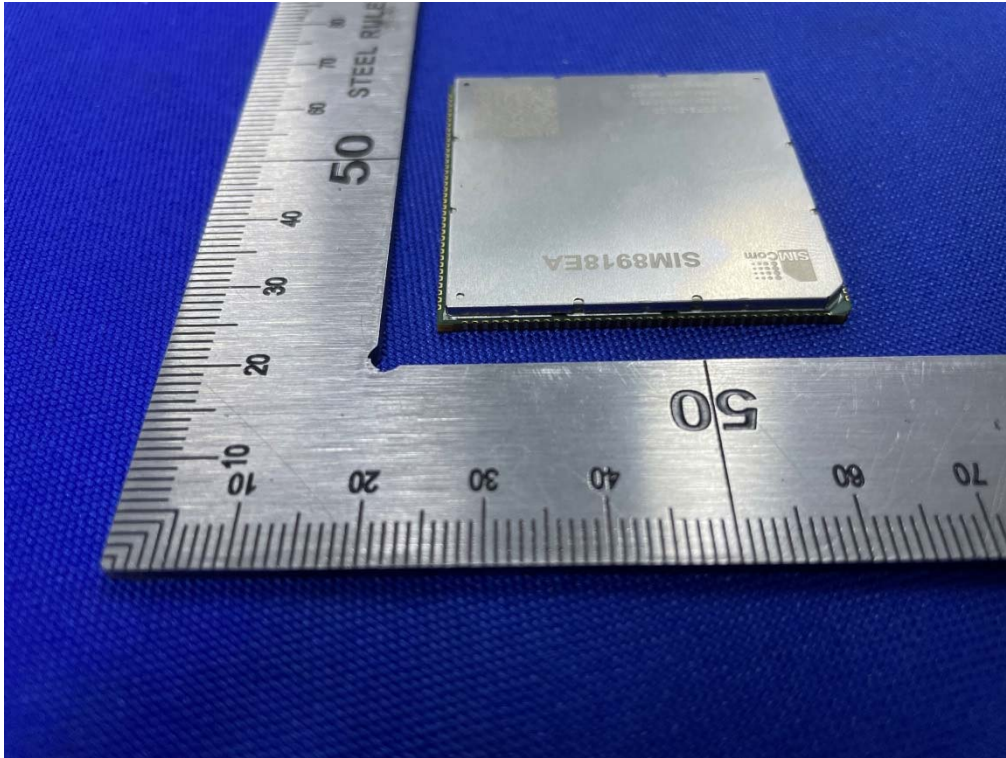
Right of the sample

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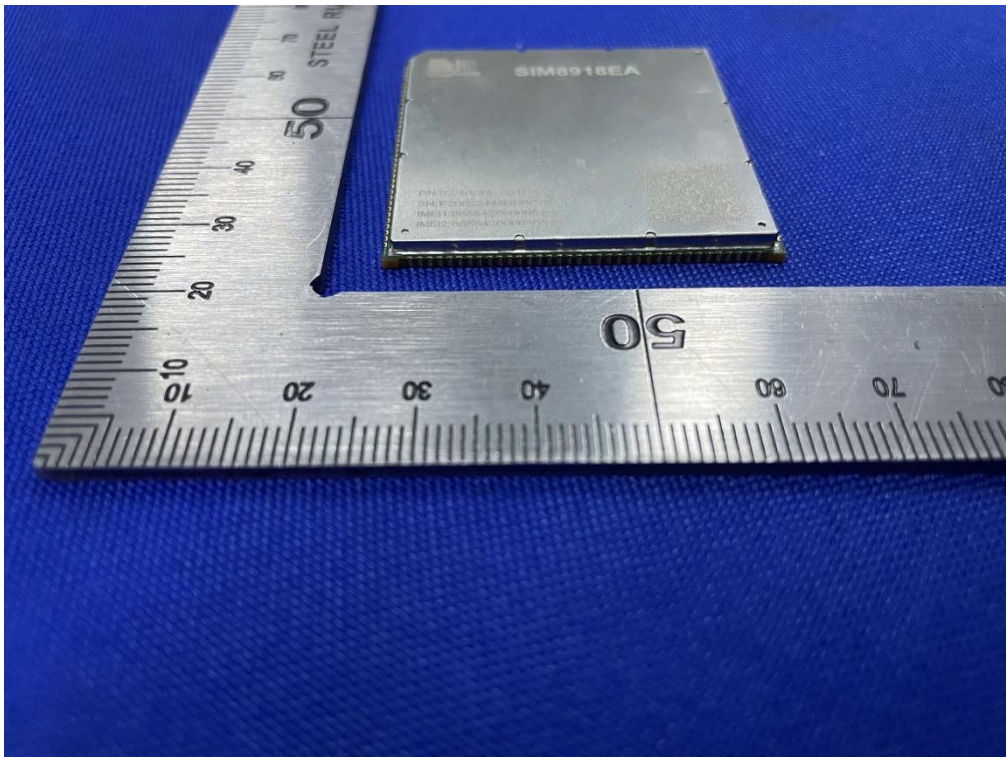
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Top of the sample



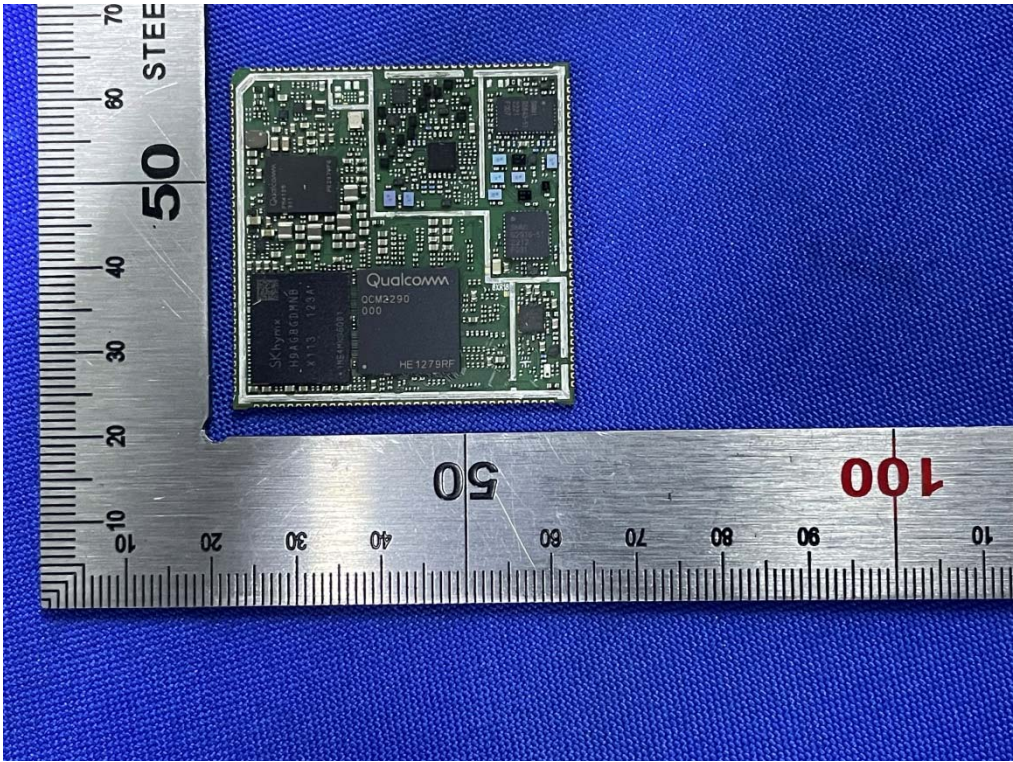
Bottom of the sample

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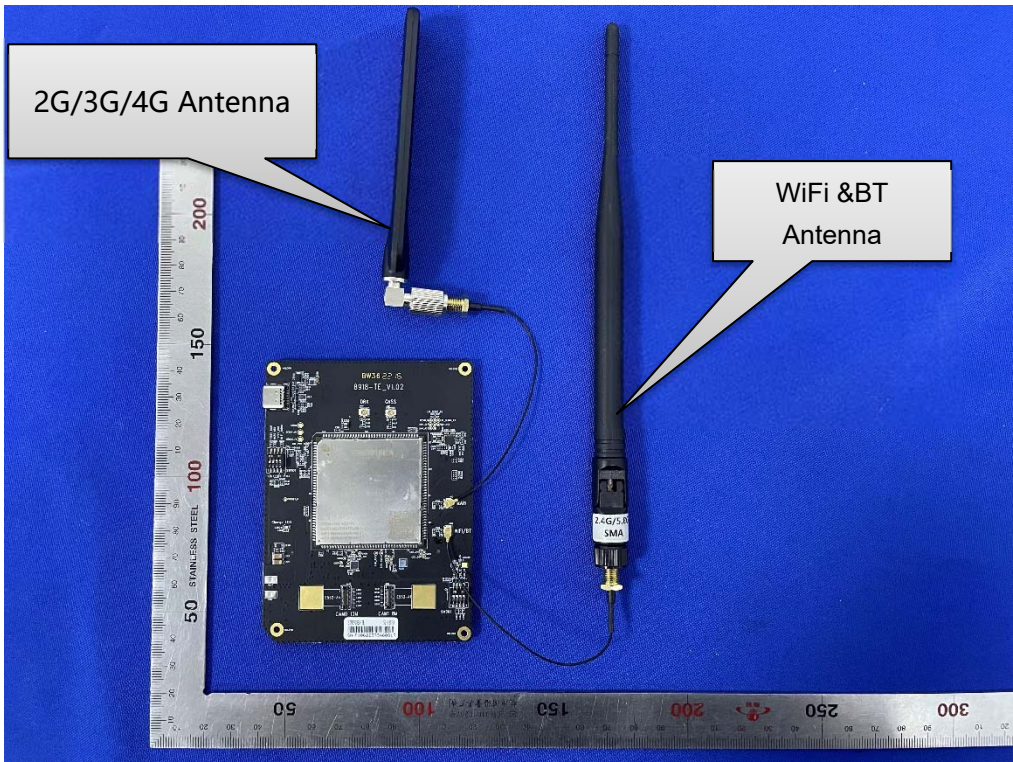
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Internal-1 of the sample



Antenna Photo

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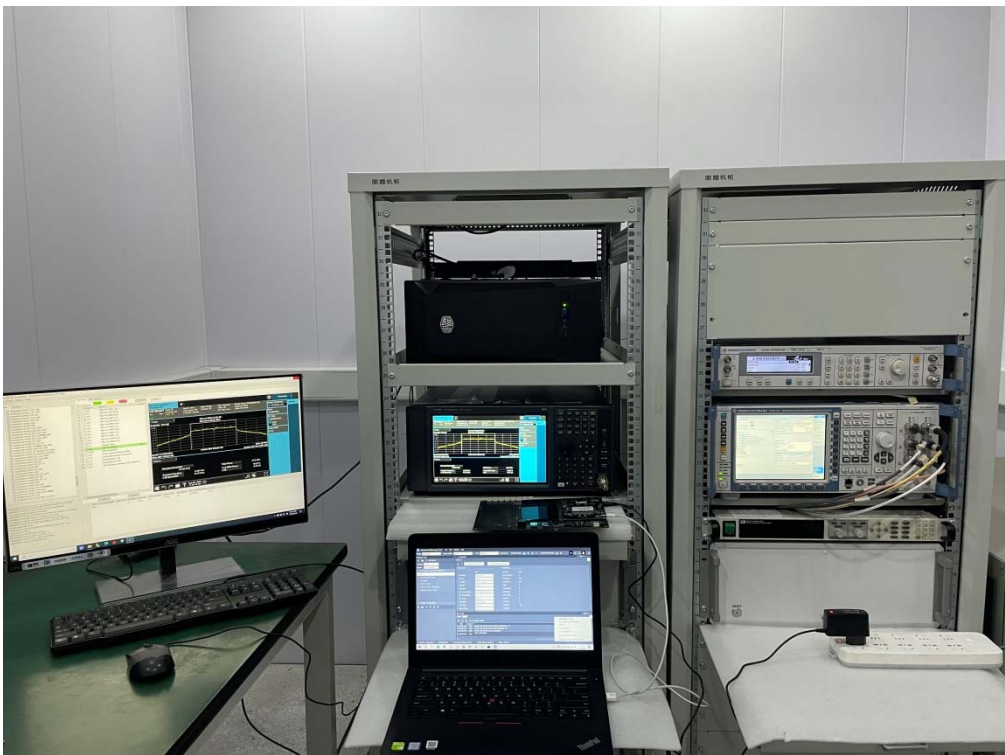
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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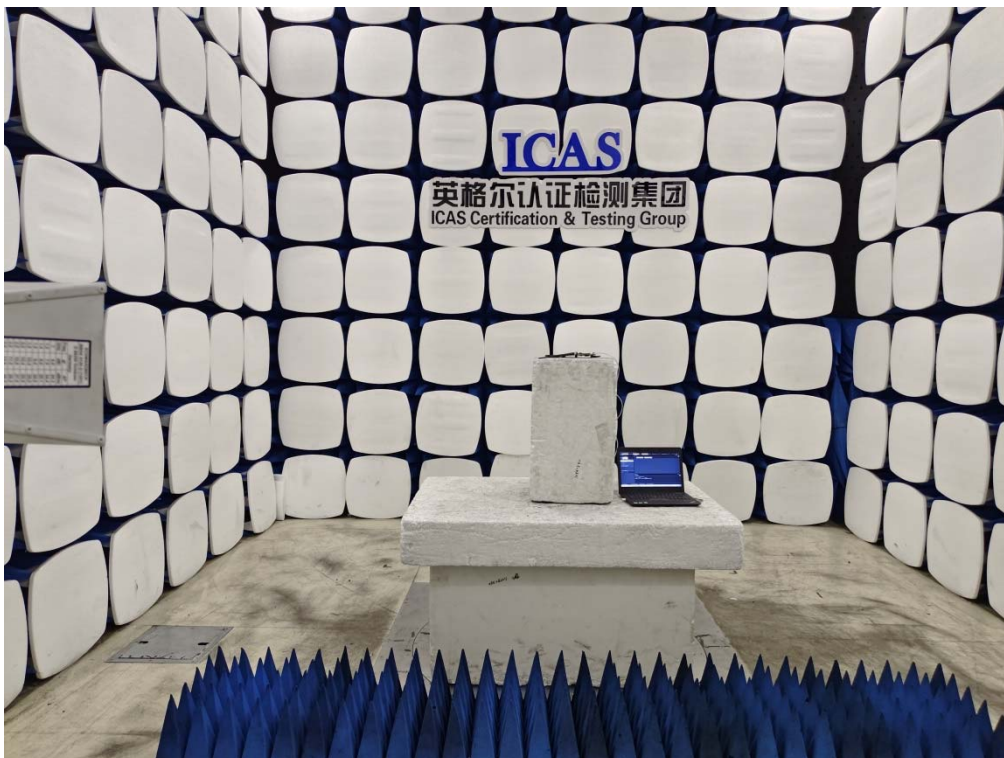
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report