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



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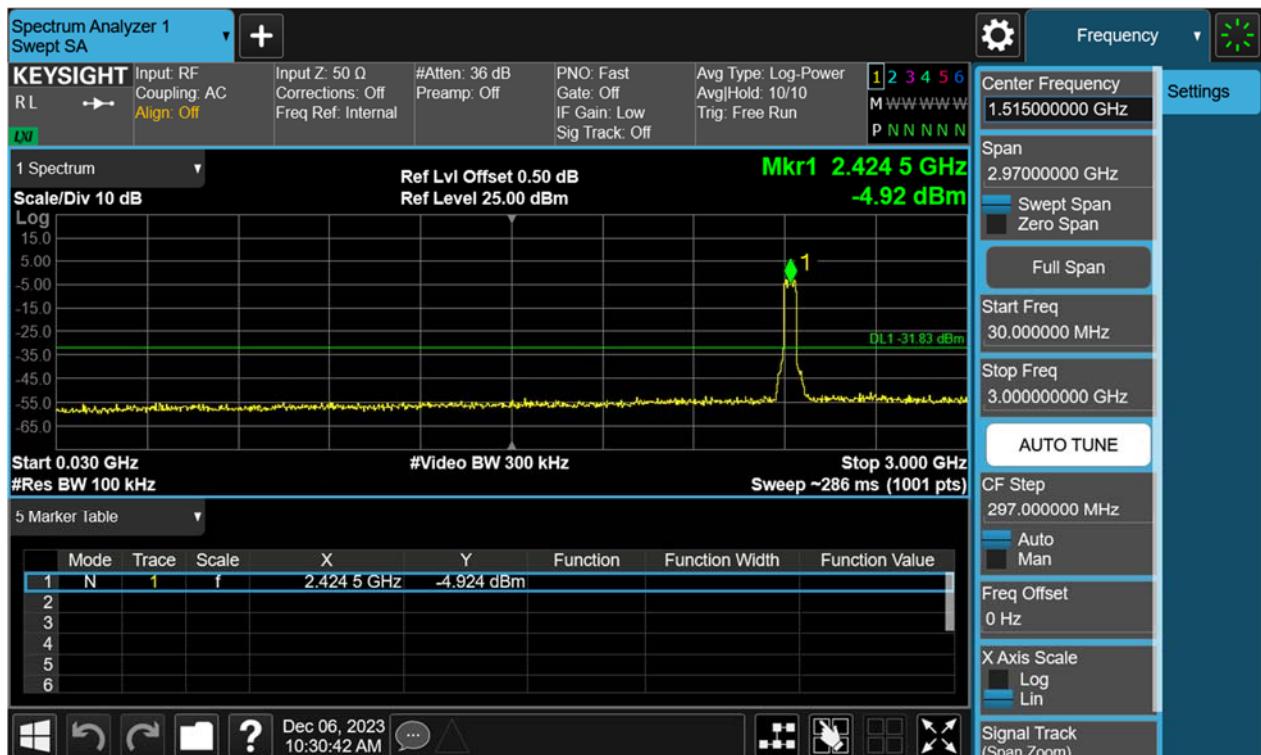
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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



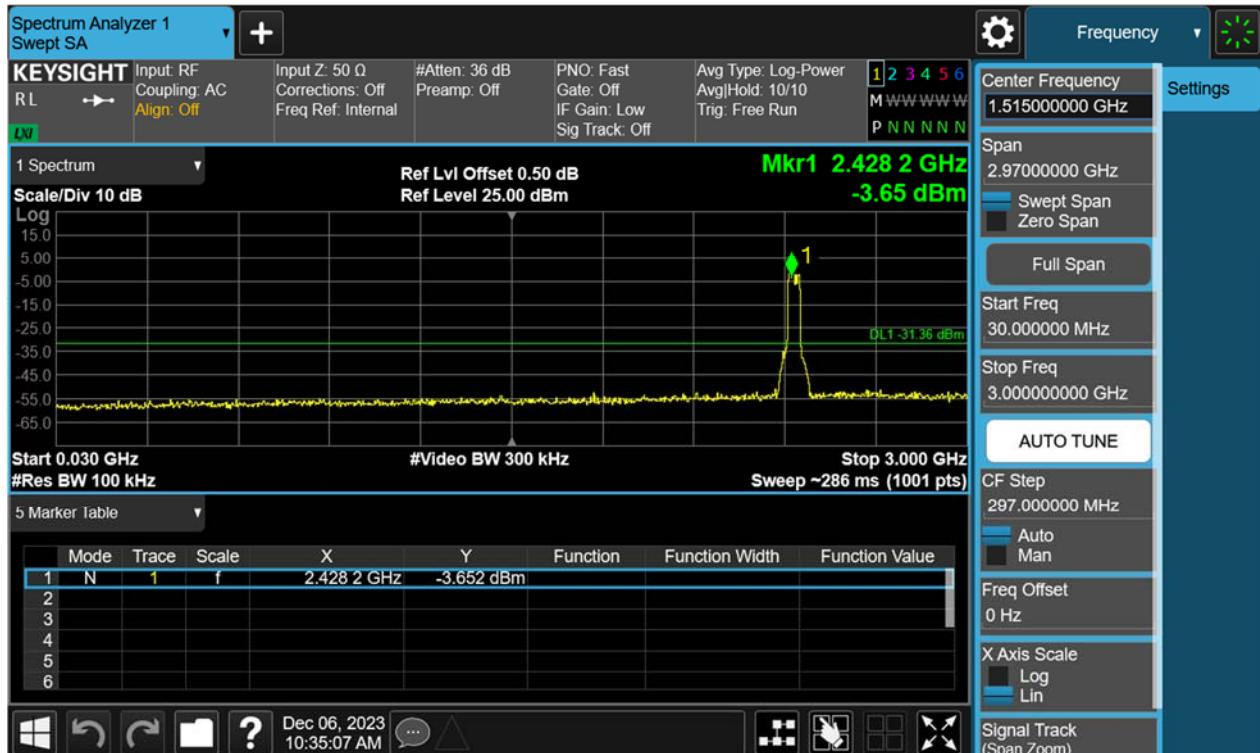
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Conducted spurious emissions 30MHz-25GHz



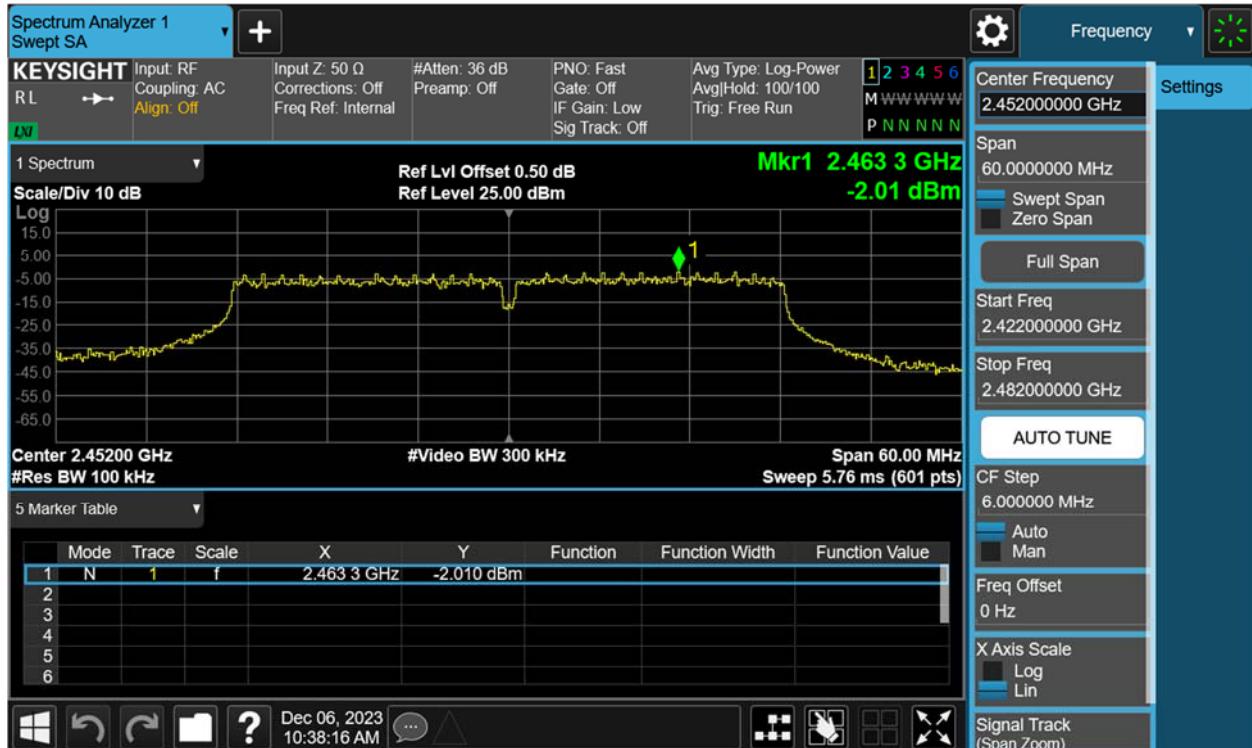
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



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, RSS-GEN 8.9
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	:	25.1°C
Relative humidity	:	52%

Notes

Test plots please refer to the annex document "SHE23060106-02BE 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, RSS-GEN 8.10
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	:	25.1°C
Relative humidity	:	52%

Notes:

1. Test plots please refer to the annex document "SHE23060106-02BE 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), RSS-Gen 8.8
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 : 26°C
Relative humidity : 49%

For details refer to following test plot.

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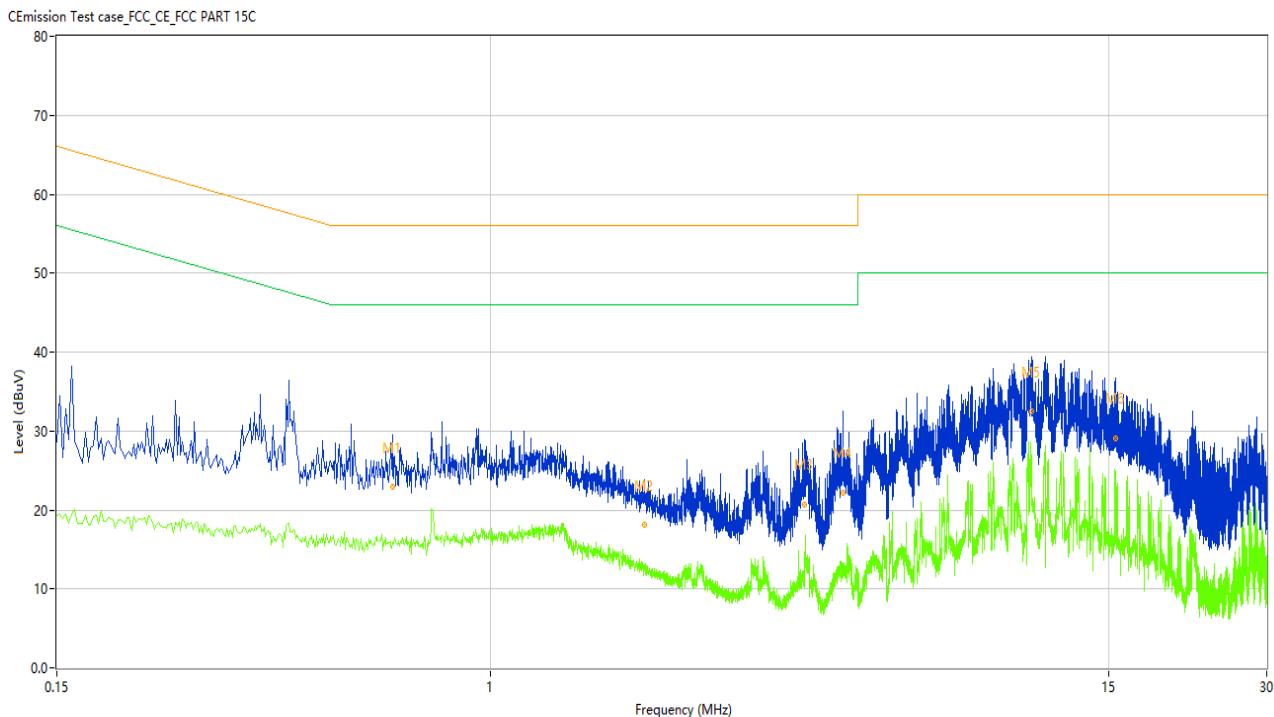
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 37: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.654	32.70	9.97	56.00	23.30	Peak	L	Pass
1*	0.654	22.86	9.97	56.00	33.14	QP	L	Pass
1**	0.654	15.57	9.97	46.00	30.43	AV	L	Pass
2	1.968	26.98	9.85	56.00	29.02	Peak	L	Pass
2*	1.968	18.12	9.85	56.00	37.88	QP	L	Pass
2**	1.968	12.58	9.85	46.00	33.42	AV	L	Pass
3	3.966	29.95	9.82	56.00	26.05	Peak	L	Pass
3*	3.966	20.64	9.82	56.00	35.36	QP	L	Pass
3**	3.966	14.69	9.82	46.00	31.31	AV	L	Pass
4	4.692	32.09	9.82	56.00	23.91	Peak	L	Pass
4*	4.692	22.11	9.82	56.00	33.89	QP	L	Pass
4**	4.692	12.78	9.82	46.00	33.22	AV	L	Pass
5	10.714	40.72	9.67	60.00	19.28	Peak	L	Pass
5*	10.714	32.56	9.67	60.00	27.44	QP	L	Pass
5**	10.714	27.03	9.67	50.00	22.97	AV	L	Pass
6	15.452	36.87	9.51	60.00	23.13	Peak	L	Pass
6*	15.452	29.10	9.51	60.00	30.90	QP	L	Pass
6**	15.452	21.50	9.51	50.00	28.50	AV	L	Pass

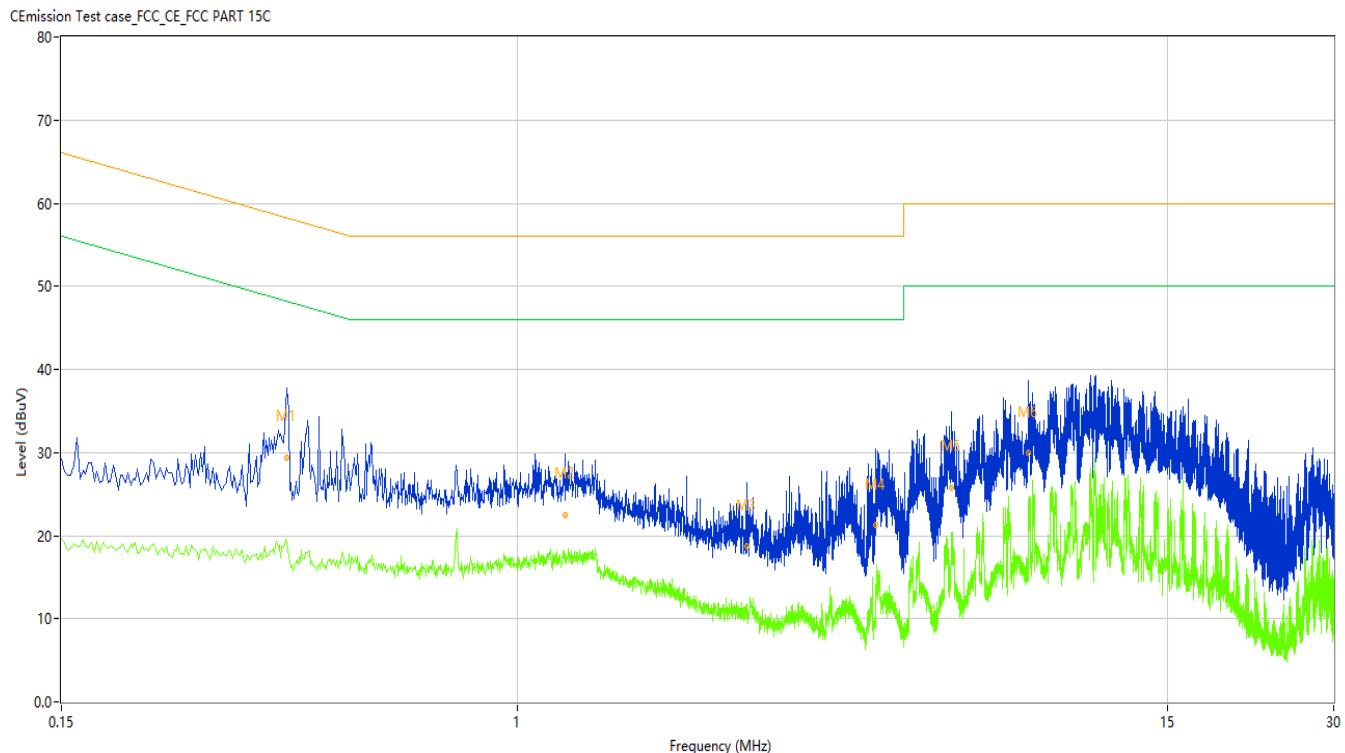
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Figure 38: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.384	40.69	10.06	58.19	17.50	Peak	N	Pass
1*	0.384	29.29	10.06	58.19	28.90	QP	N	Pass
1**	0.384	19.32	10.06	48.19	28.87	AV	N	Pass
2	1.224	31.24	9.95	56.00	24.76	Peak	N	Pass
2*	1.224	22.52	9.95	56.00	33.48	QP	N	Pass
2**	1.224	17.78	9.95	46.00	28.22	AV	N	Pass
3	2.602	27.10	9.92	56.00	28.90	Peak	N	Pass
3*	2.602	18.71	9.92	56.00	37.29	QP	N	Pass
3**	2.602	11.68	9.92	46.00	34.32	AV	N	Pass
4	4.456	31.97	9.81	56.00	24.03	Peak	N	Pass
4*	4.456	21.32	9.81	56.00	34.68	QP	N	Pass
4**	4.456	13.86	9.81	46.00	32.14	AV	N	Pass
5	6.112	35.22	9.79	60.00	24.78	Peak	N	Pass
5*	6.112	25.73	9.79	60.00	34.27	QP	N	Pass
5**	6.112	20.40	9.79	50.00	29.60	AV	N	Pass
6	8.404	38.44	9.80	60.00	21.56	Peak	N	Pass
6*	8.404	30.00	9.80	60.00	30.00	QP	N	Pass
6**	8.404	24.24	9.80	50.00	25.76	AV	N	Pass

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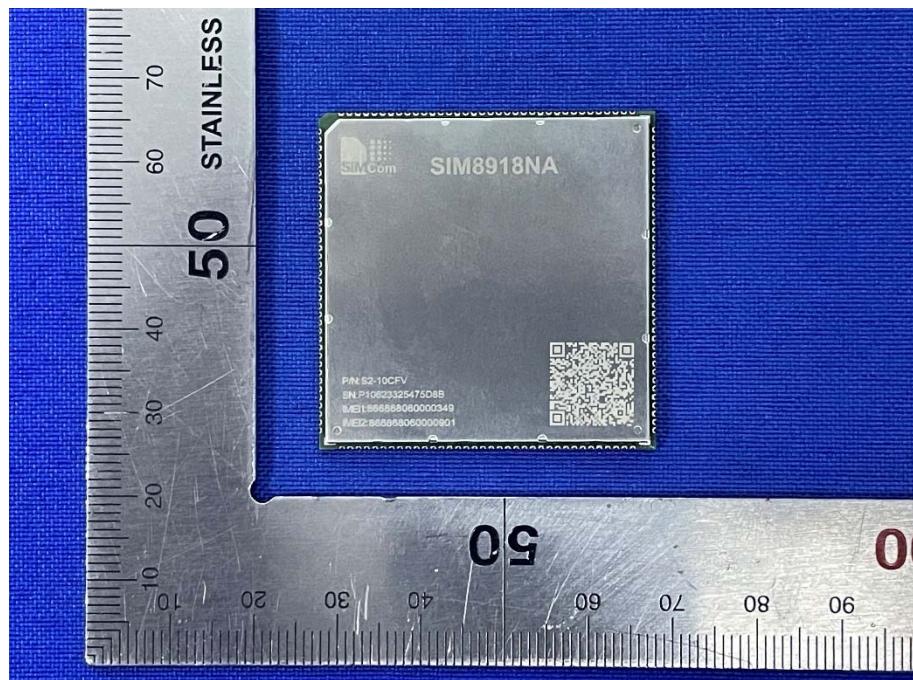
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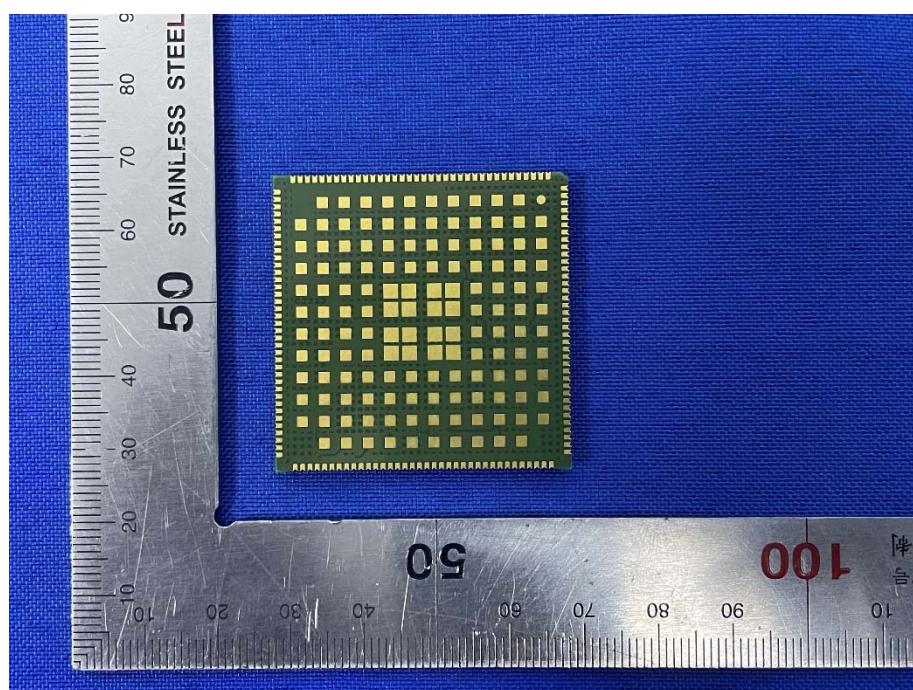
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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



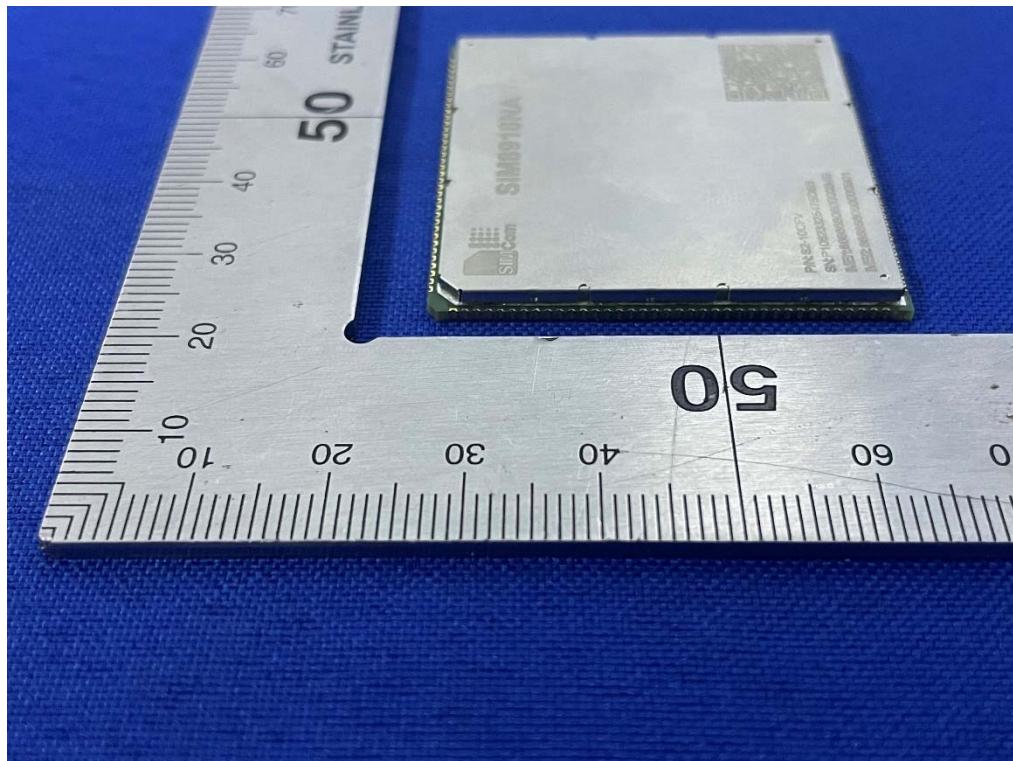
Rear of the sample

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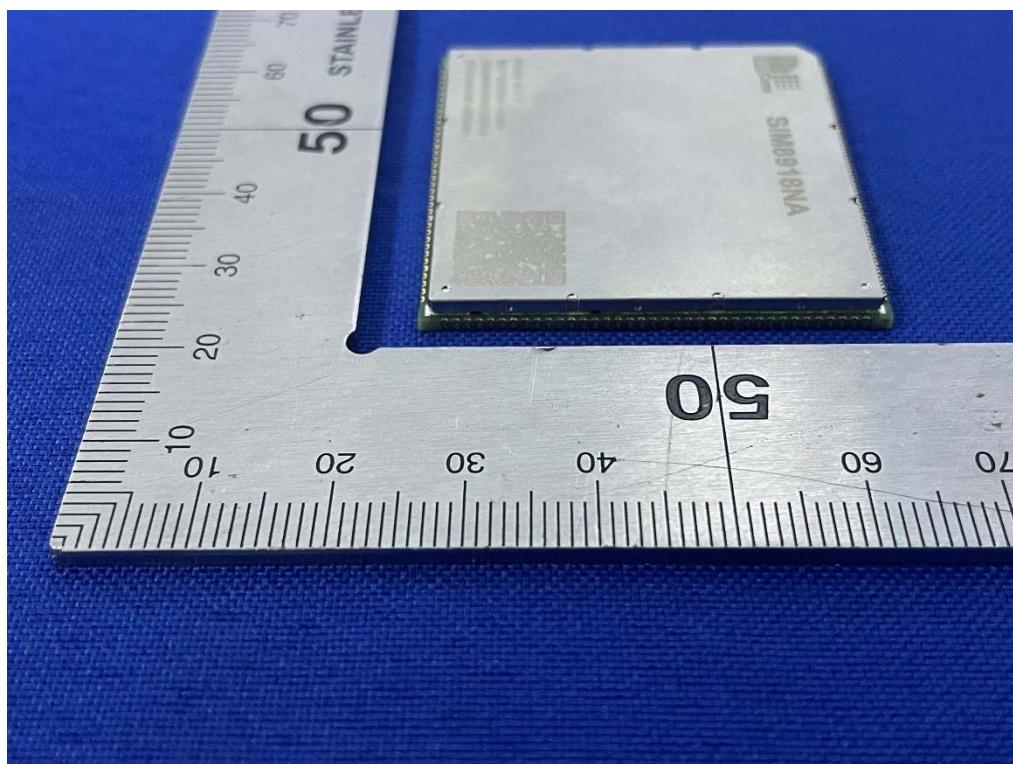
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Left of the sample



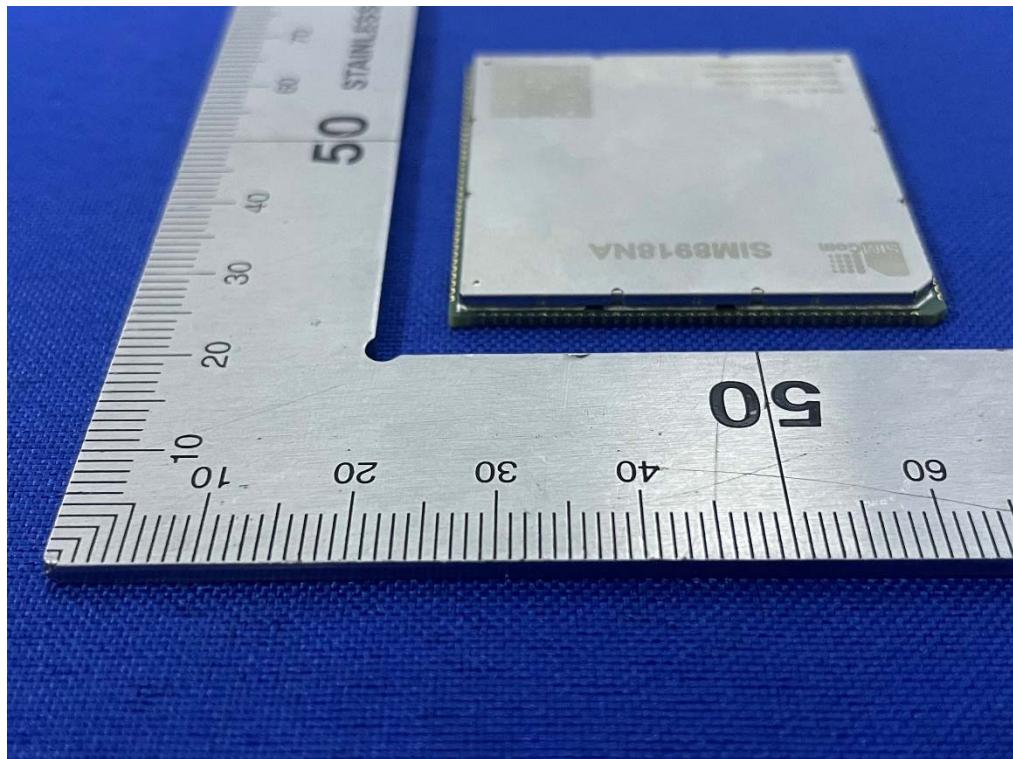
Right of the sample

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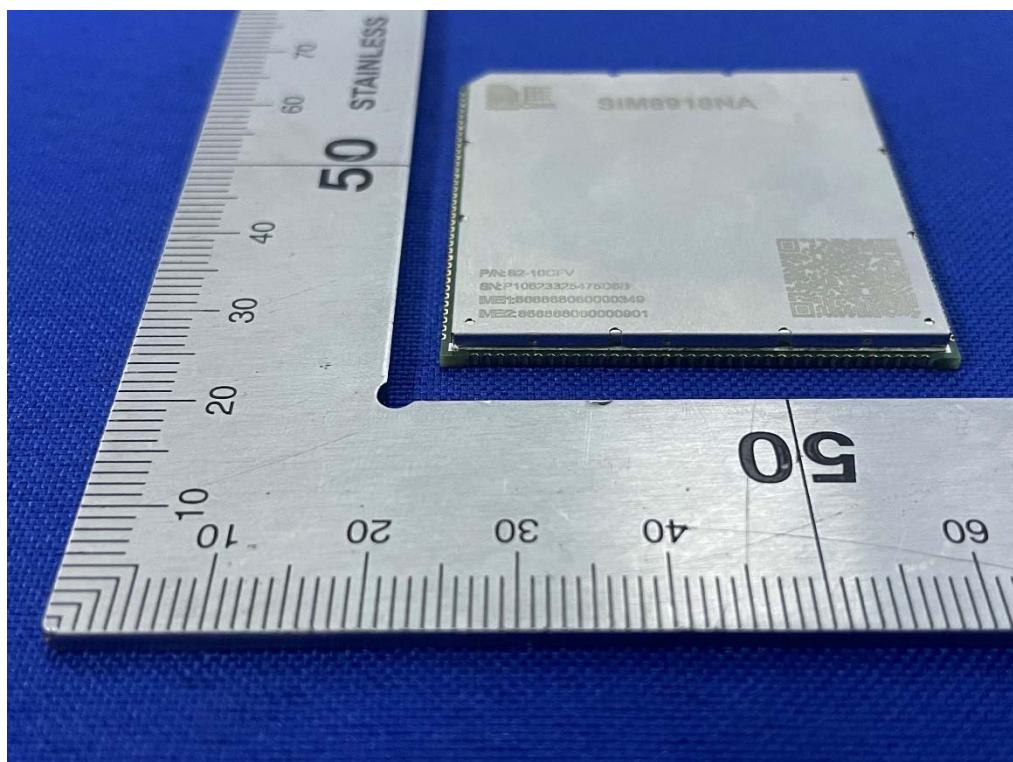
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Top of the sample



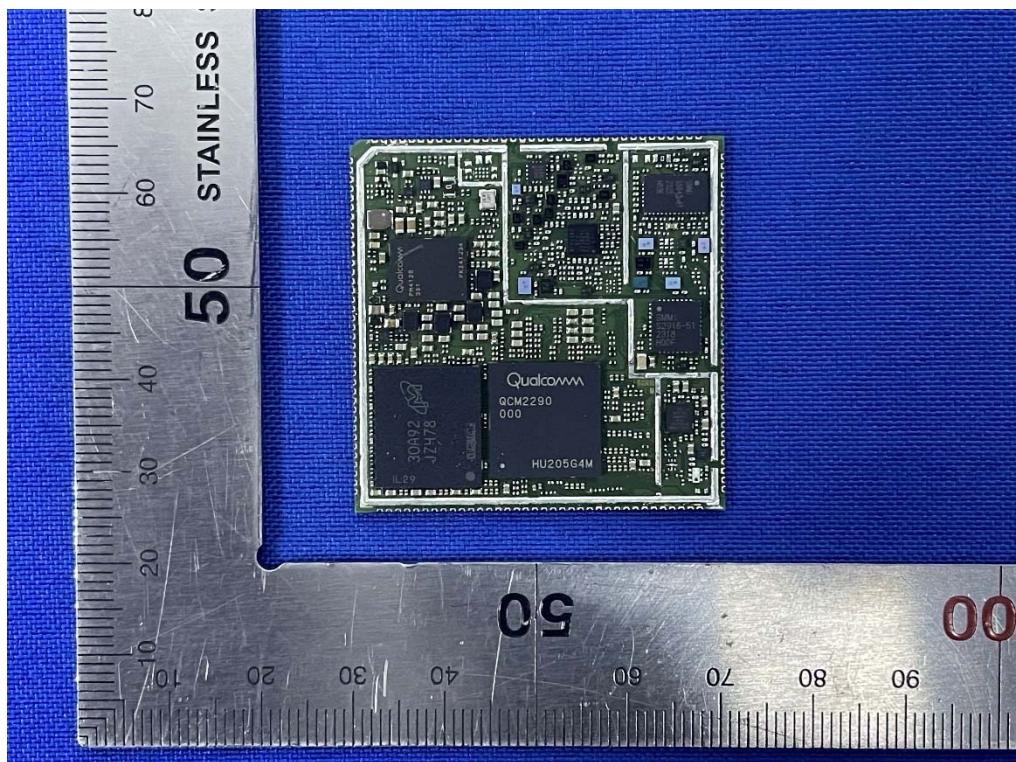
Bottom of the sample

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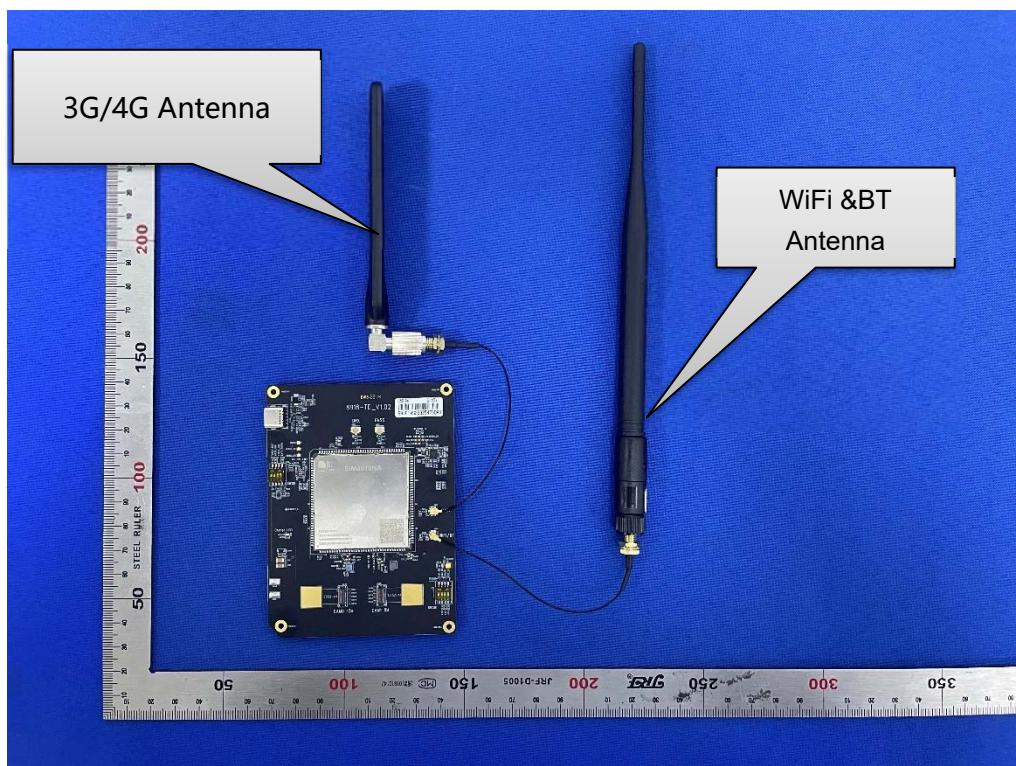
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Internal-1 of the sample



Antenna Photo

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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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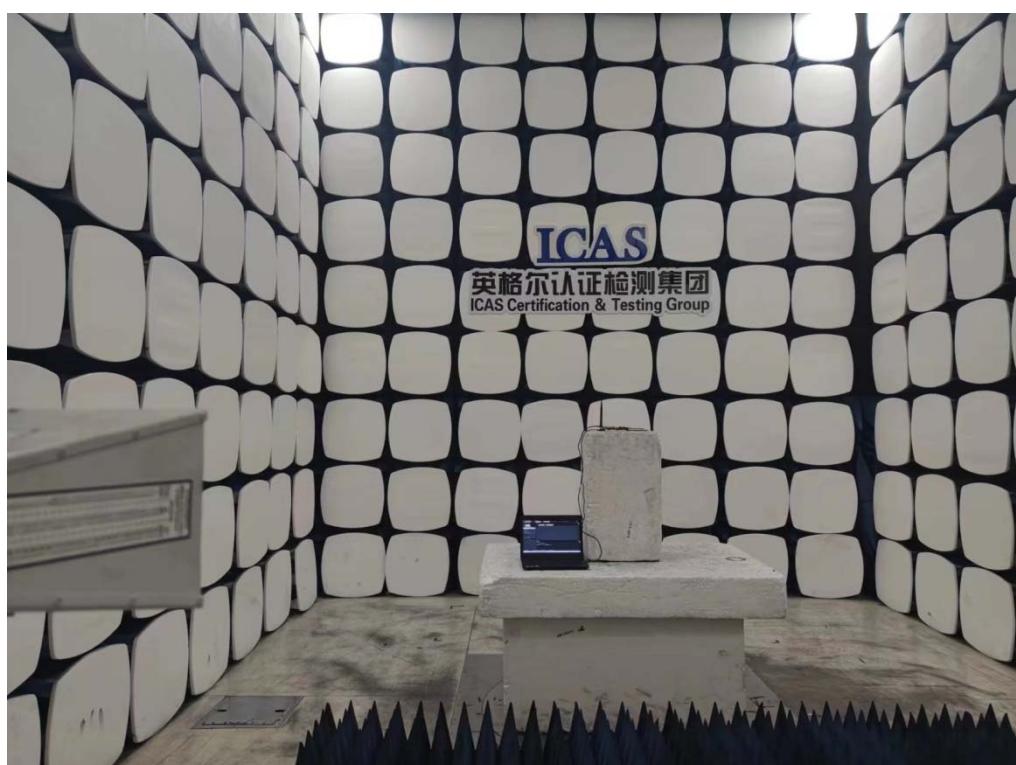
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report