

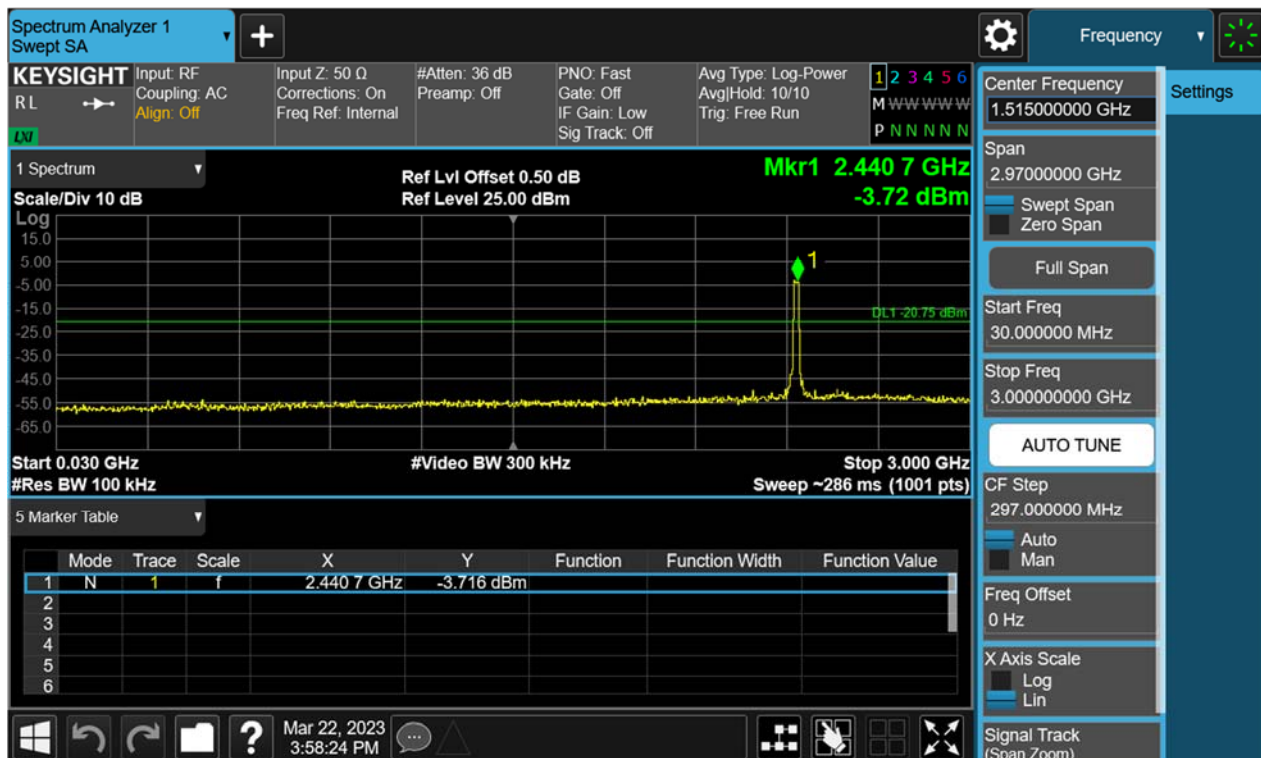
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Figure 30: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



Band Edge



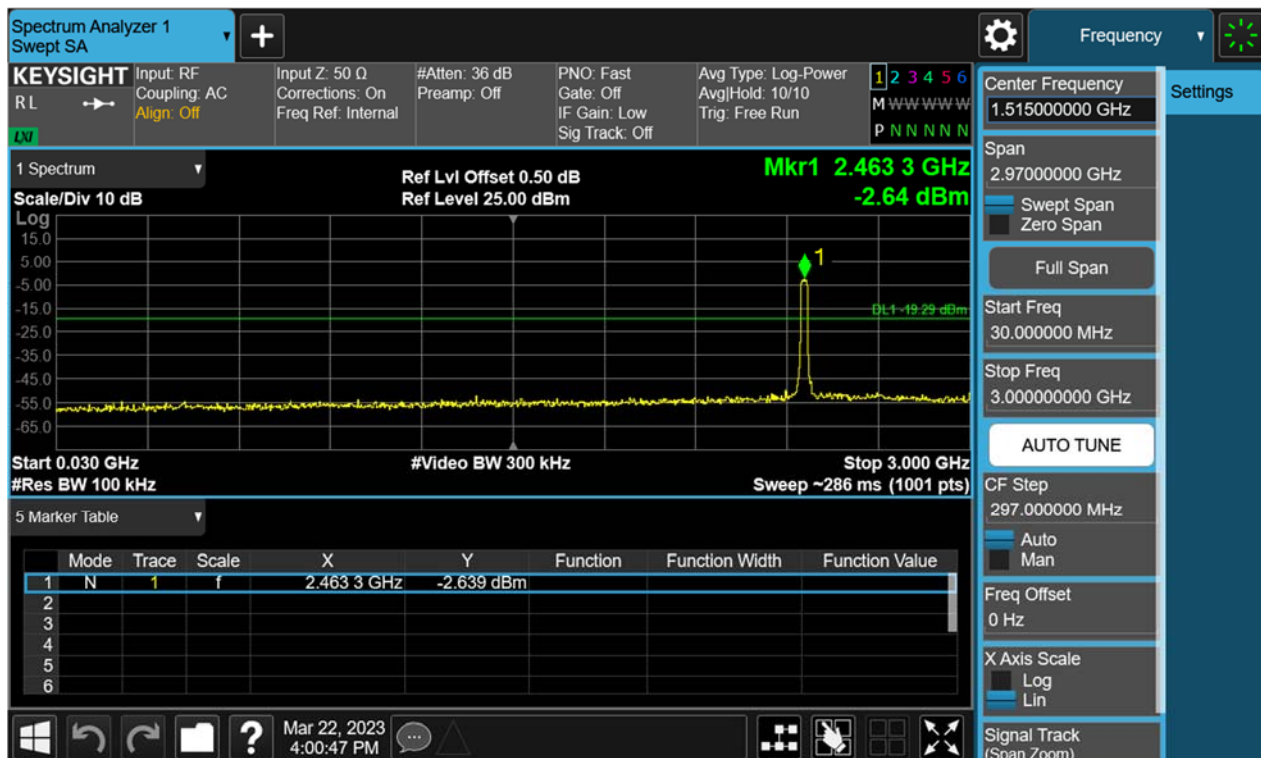
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Figure 31: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



Band Edge



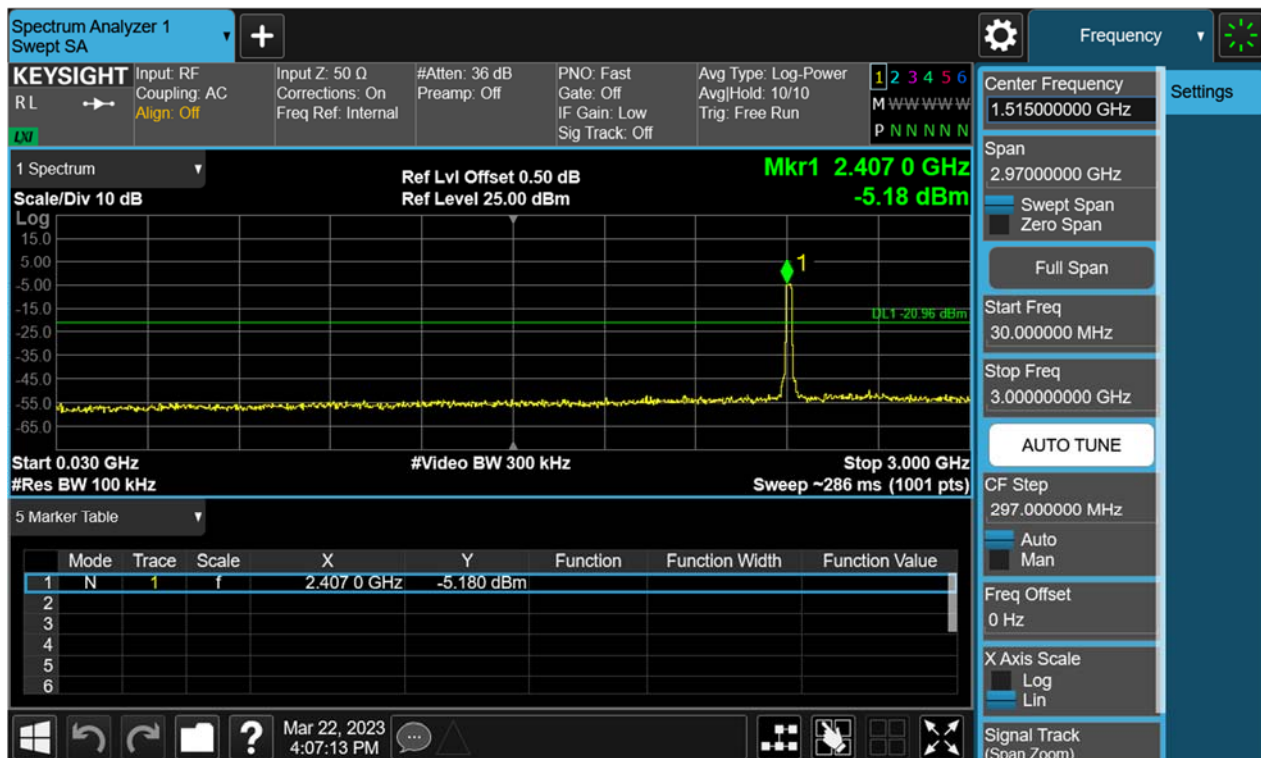
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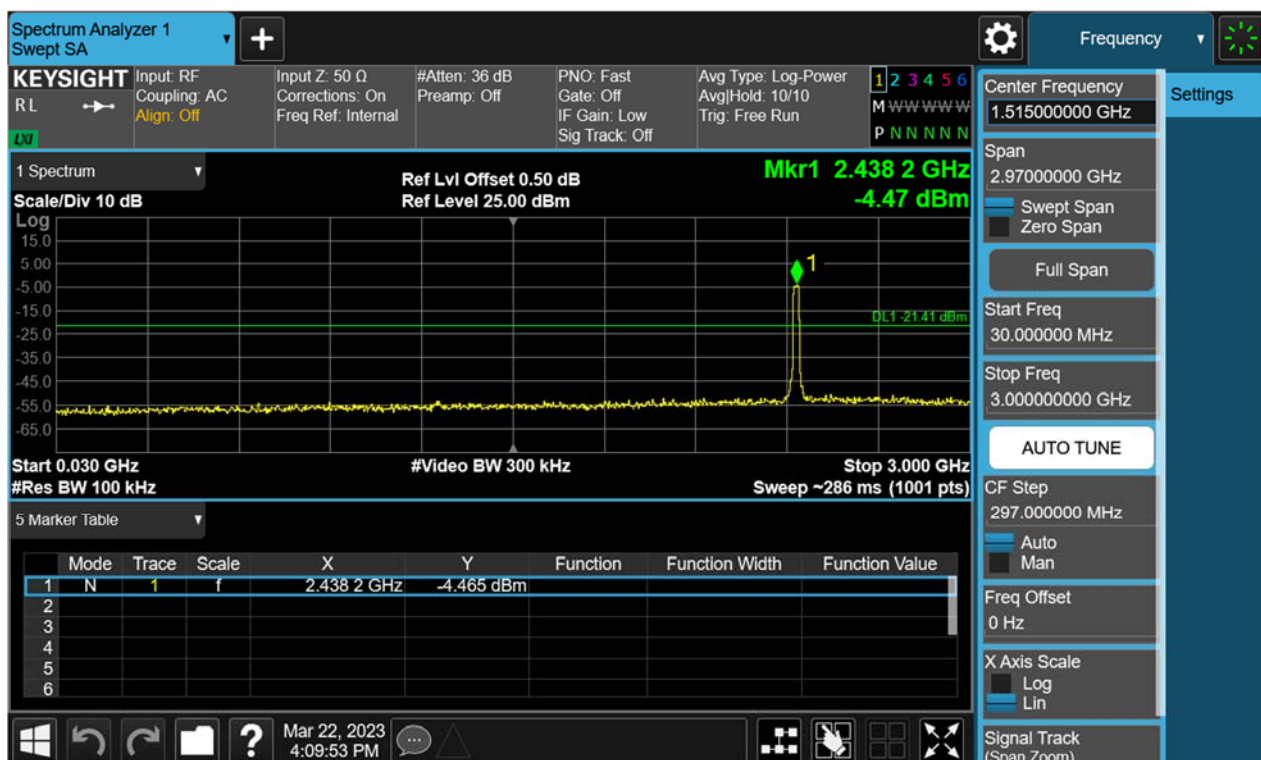
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Figure 32: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



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



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



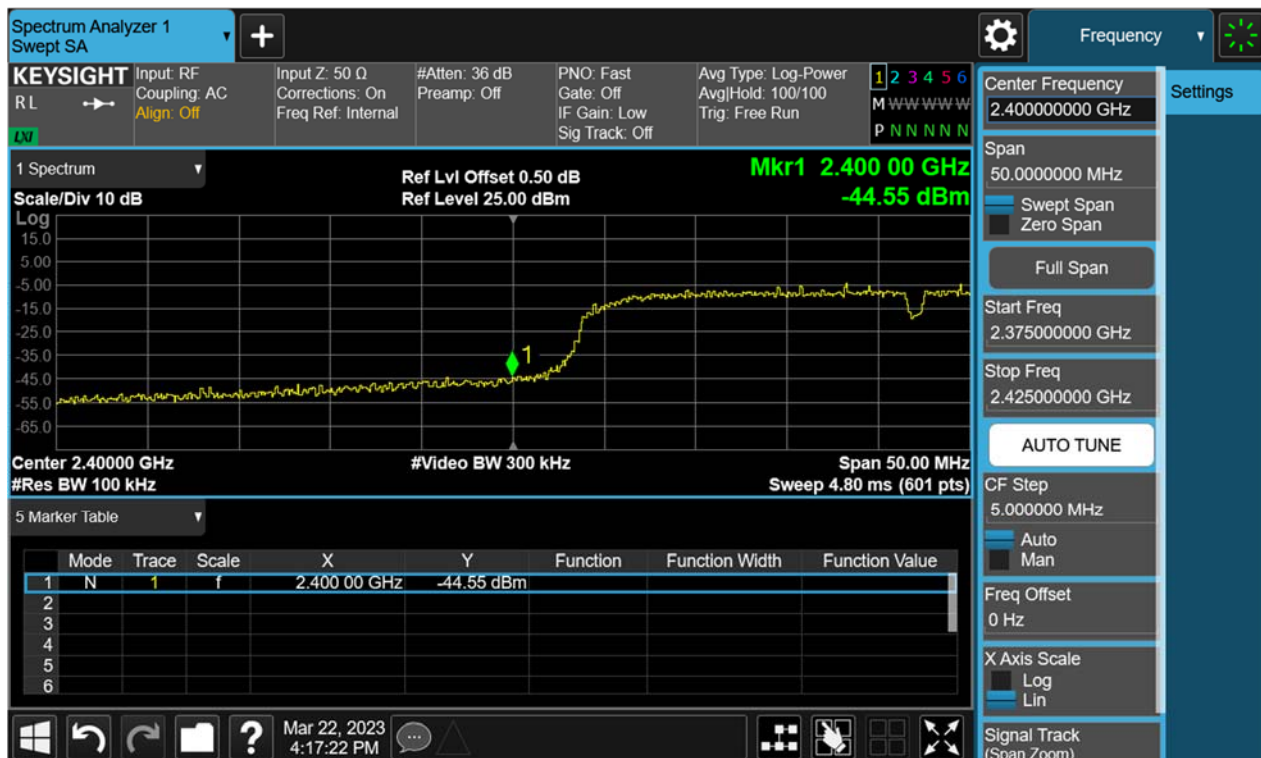
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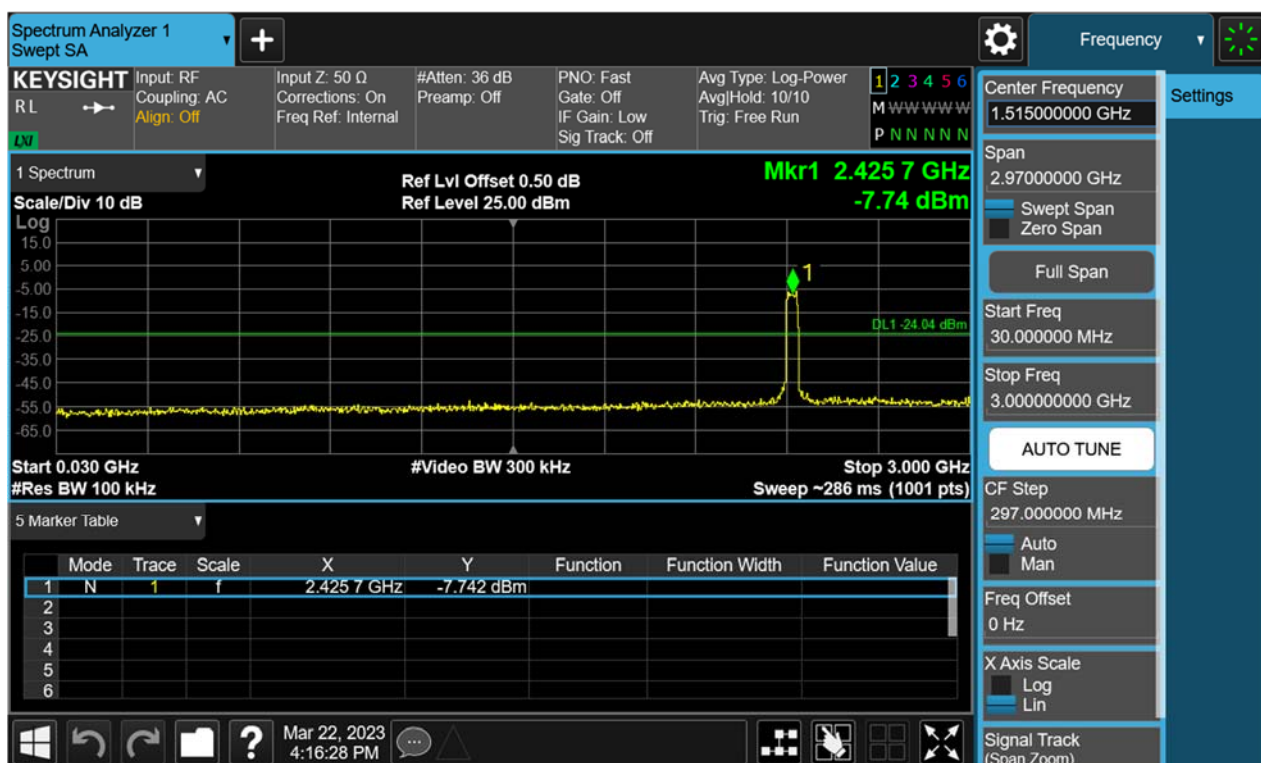
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Band Edge



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



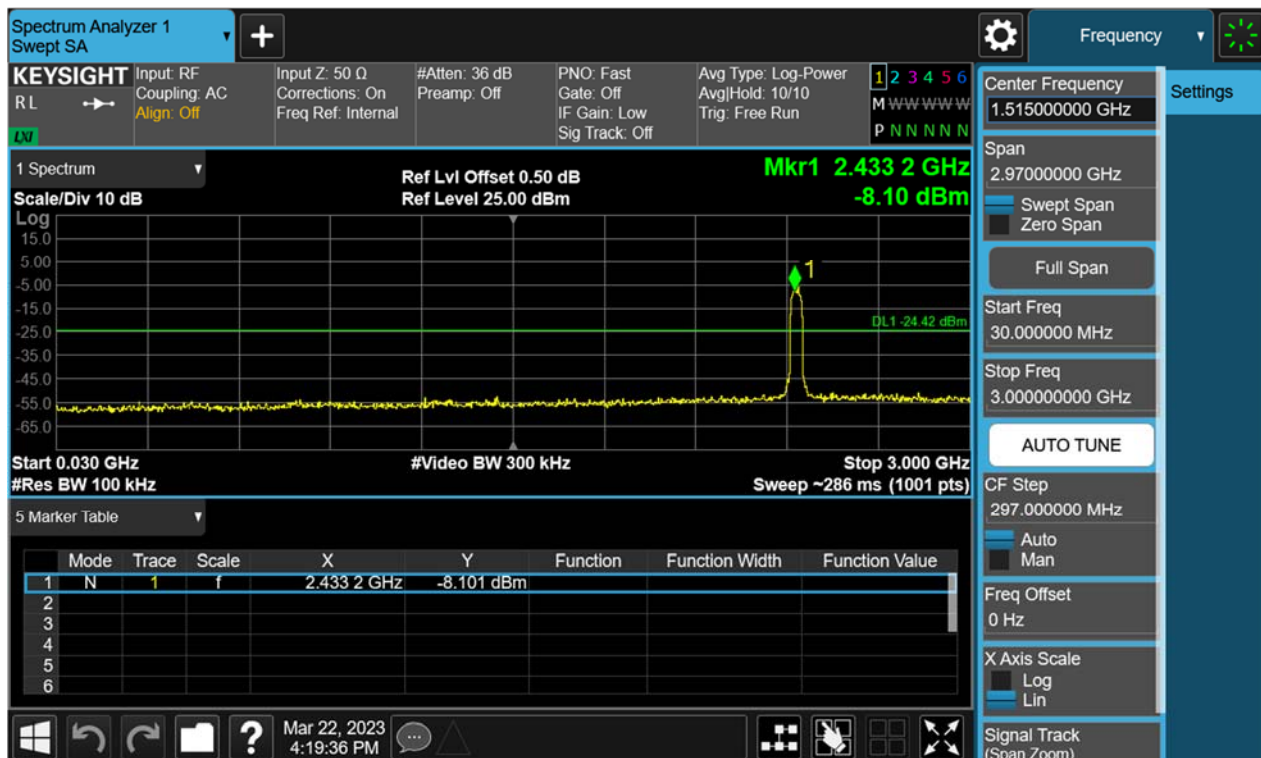
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Figure 36: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2452MHz Carrier Level



Band Edge



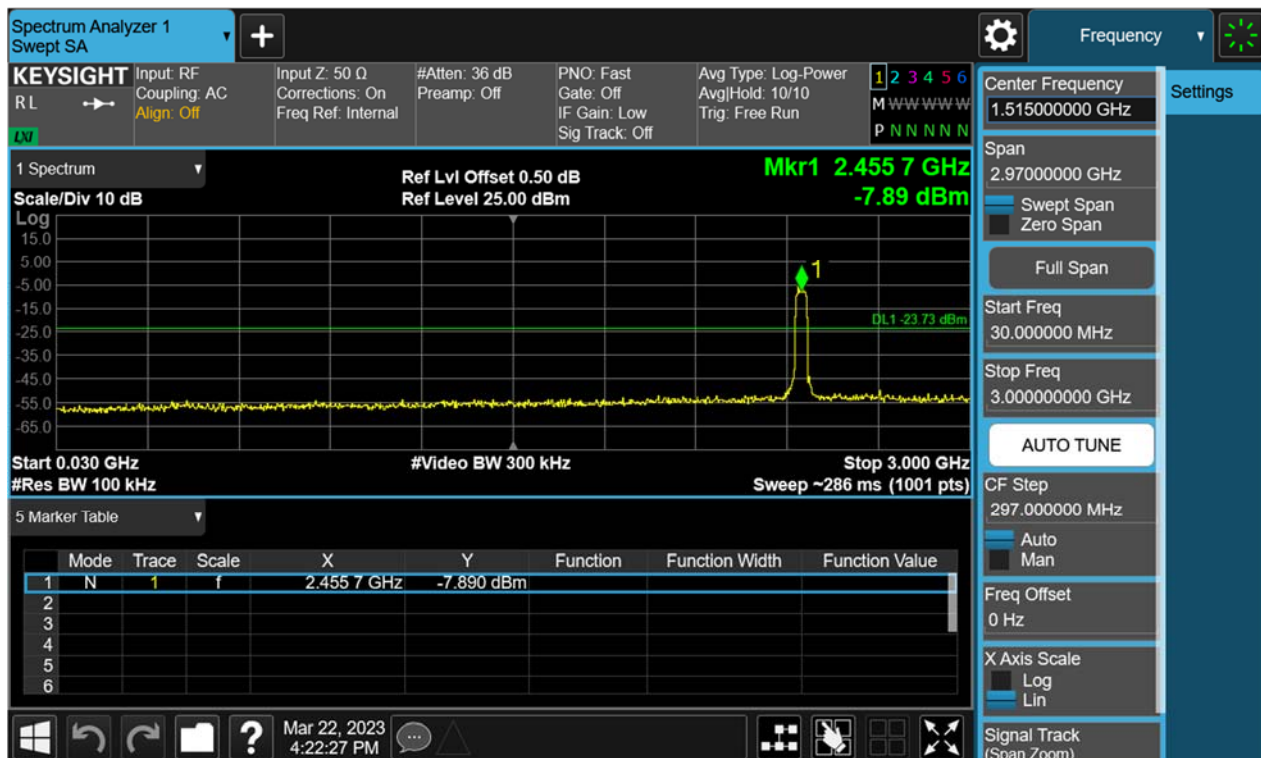
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4.1.6 Radiated Emission

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 "SHE23030025-02AE 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 "SHE23030025-02AE 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	: 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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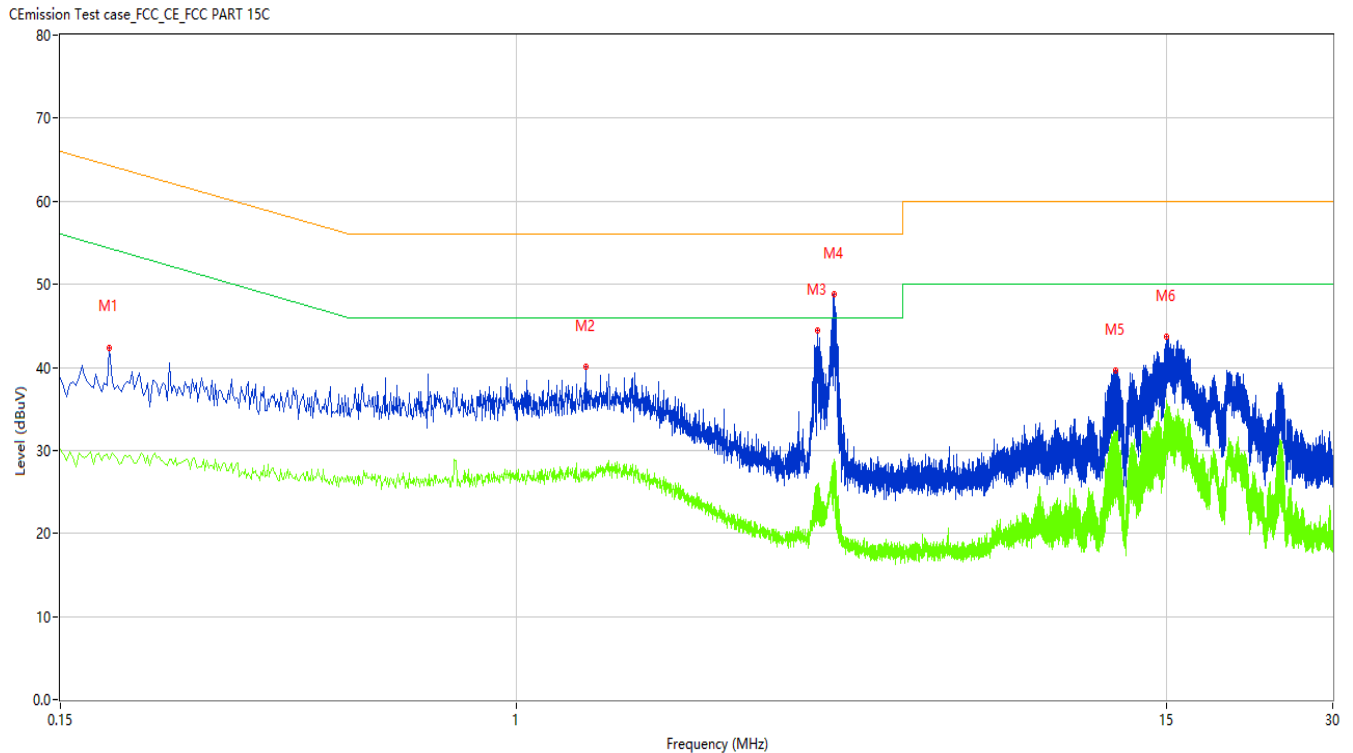
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Note: All test modes had been pre-tested, but only the 802.11b at low channel is the worst case and recorded in the report.

Figure 28: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.184	42.38	10.18	64.30	21.92	Peak	L	Pass
1**	0.184	28.93	10.18	54.30	25.37	AV	L	Pass
2	1.336	40.10	10.14	56.00	15.90	Peak	L	Pass
2**	1.336	27.64	10.14	46.00	18.36	AV	L	Pass
3	3.518	44.43	10.25	56.00	11.57	Peak	L	Pass
3**	3.518	25.93	10.25	46.00	20.07	AV	L	Pass
4	3.756	48.85	10.26	56.00	7.15	Peak	L	Pass
4**	3.756	28.89	10.26	46.00	17.11	AV	L	Pass
5	12.158	39.63	10.60	60.00	20.37	Peak	L	Pass
5**	12.158	32.18	10.60	50.00	17.82	AV	L	Pass
6	14.998	43.65	10.71	60.00	16.35	Peak	L	Pass
6**	14.998	35.51	10.71	50.00	14.49	AV	L	Pass

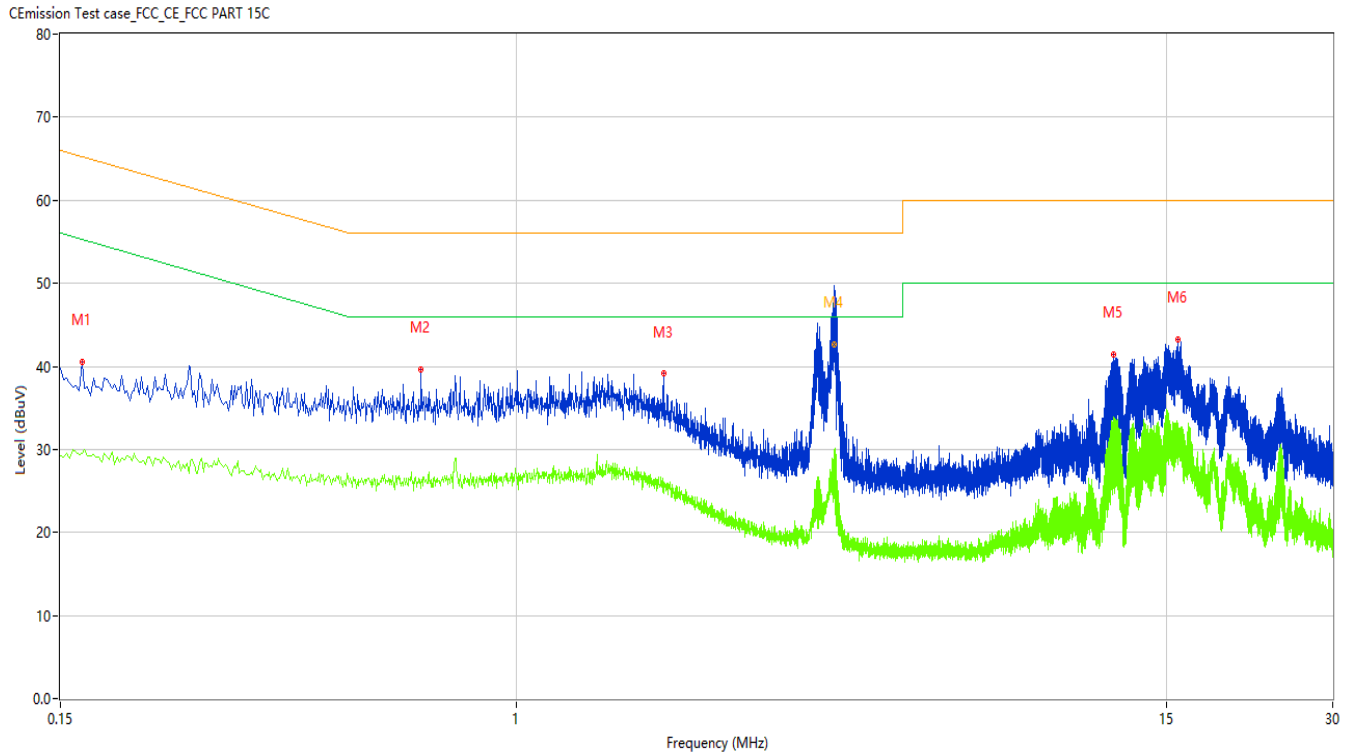
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Figure 29: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	40.60	10.29	65.26	24.66	Peak	N	Pass
1**	0.164	29.54	10.29	55.26	25.72	AV	N	Pass
2	0.674	39.70	10.35	56.00	16.30	Peak	N	Pass
2**	0.674	25.89	10.35	46.00	20.11	AV	N	Pass
3	1.852	39.16	10.19	56.00	16.84	Peak	N	Pass
3**	1.852	25.45	10.19	46.00	20.55	AV	N	Pass
4	3.770	51.15	10.21	56.00	4.85	Peak	N	Pass
4*	3.770	42.63	10.21	56.00	13.37	QP	N	Pass
4**	3.770	29.53	10.21	46.00	16.47	AV	N	Pass
5	12.038	41.48	10.44	60.00	18.52	Peak	N	Pass
5**	12.038	33.85	10.44	50.00	16.15	AV	N	Pass
6	15.752	43.31	10.56	60.00	16.69	Peak	N	Pass
6**	15.752	32.37	10.56	50.00	17.63	AV	N	Pass

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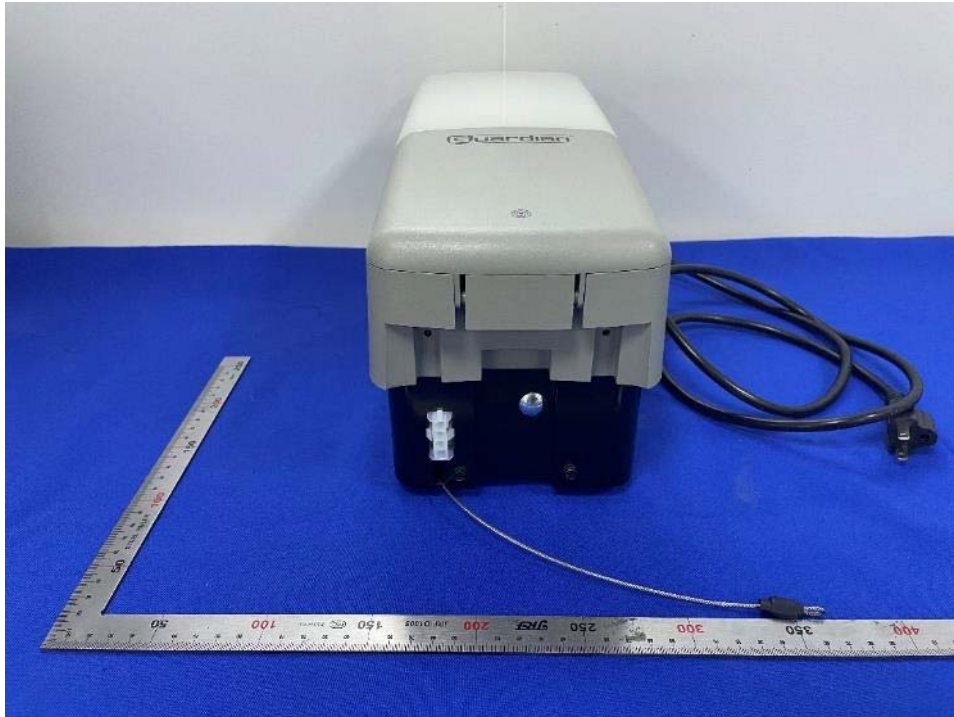
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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

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Left of the sample



Right of the sample

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Top of the sample



Bottom of the sample

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Open photo-1 of the sample



Open photo-2 of the sample

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Open photo-3 of the sample



Open photo-4 of the sample

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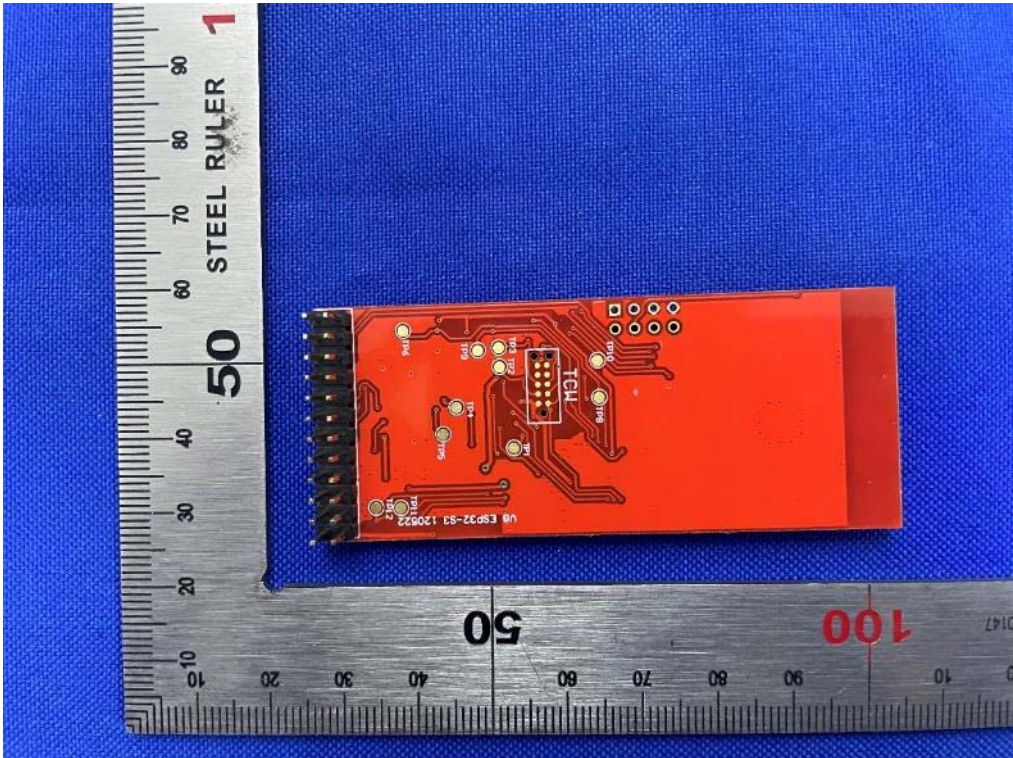
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Open photo-5 of the sample



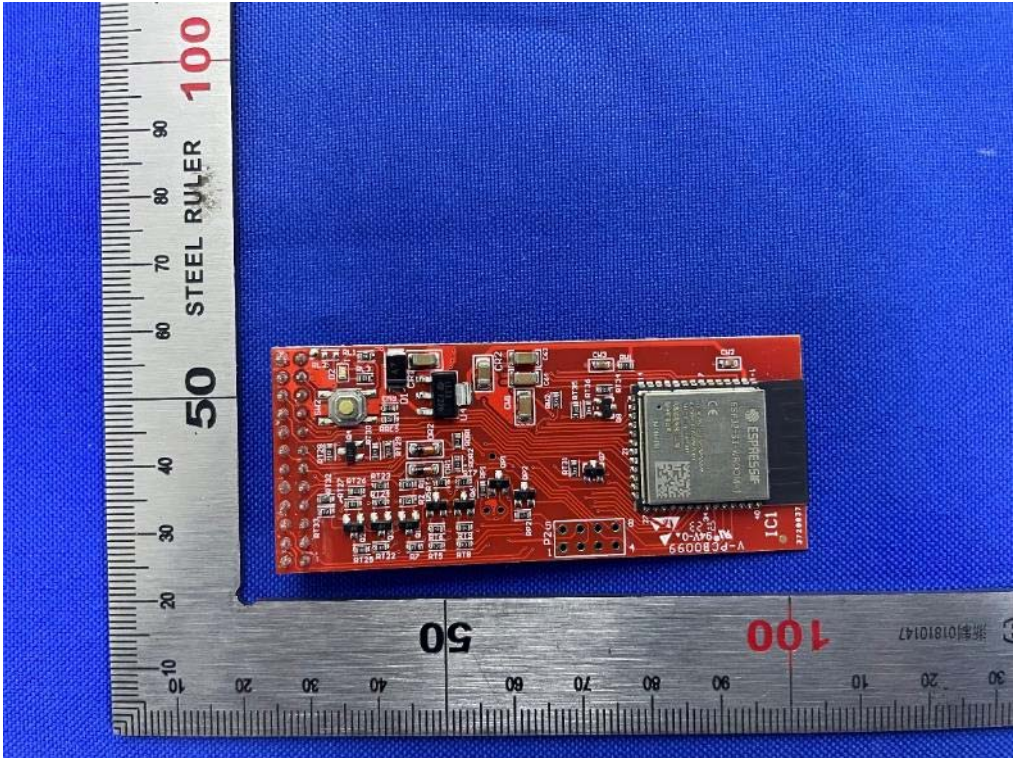
Internal photo-1 of the sample

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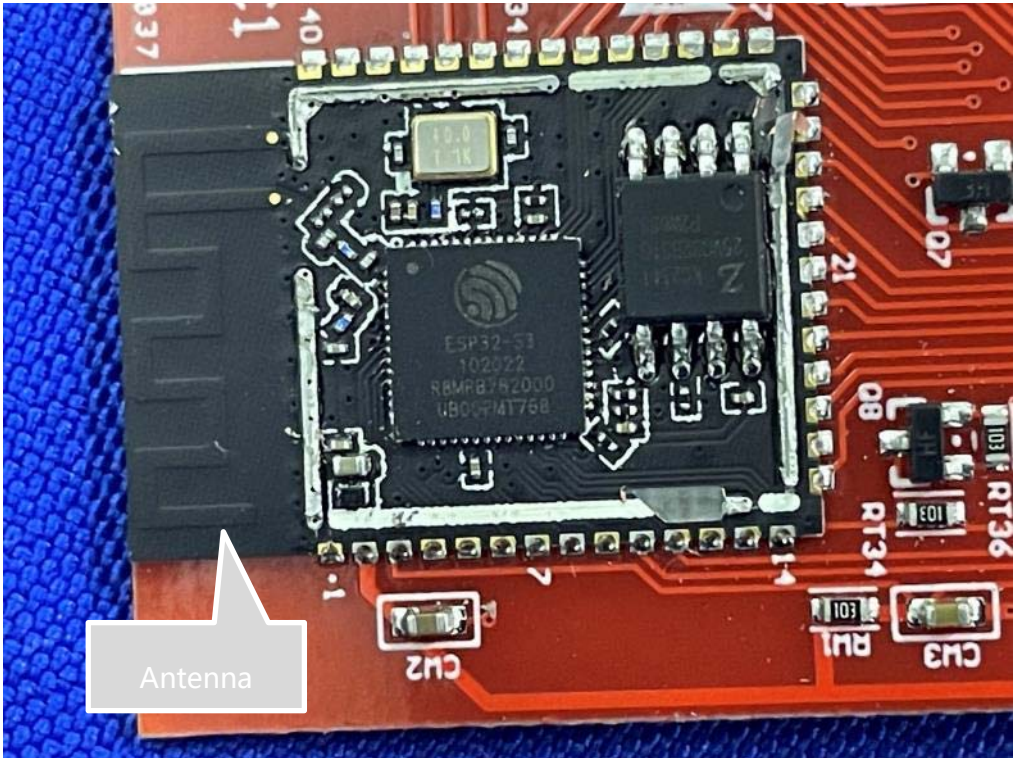
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Internal photo-2 of the sample



Remove Cover of the sample

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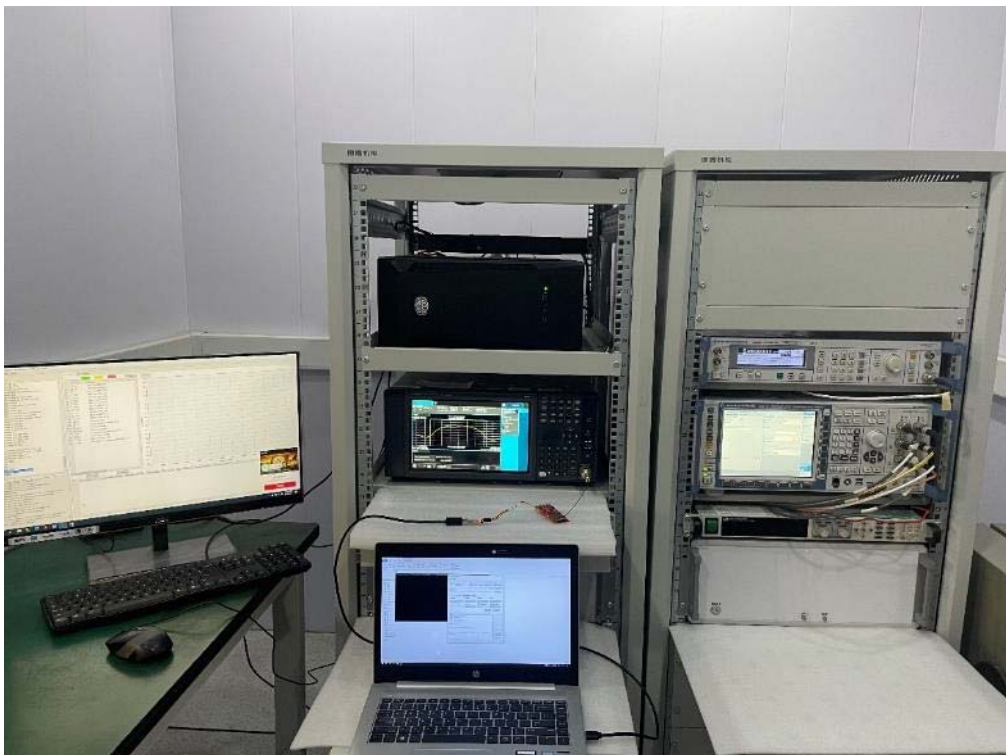
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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report