

TEST REPORT

Report No.: SHE23060106-01BE

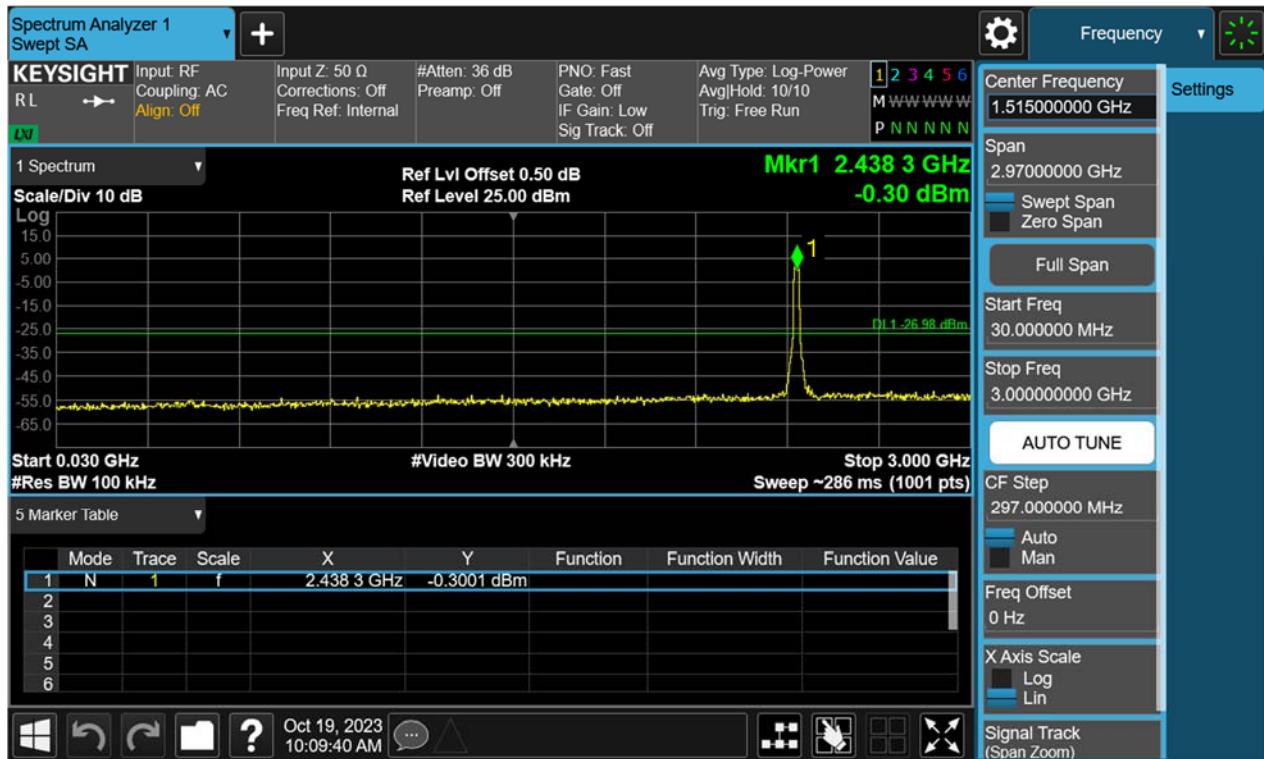
Date: 2023-10-19

Page 41 of 60

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



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 42 of 60



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



TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 43 of 60

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

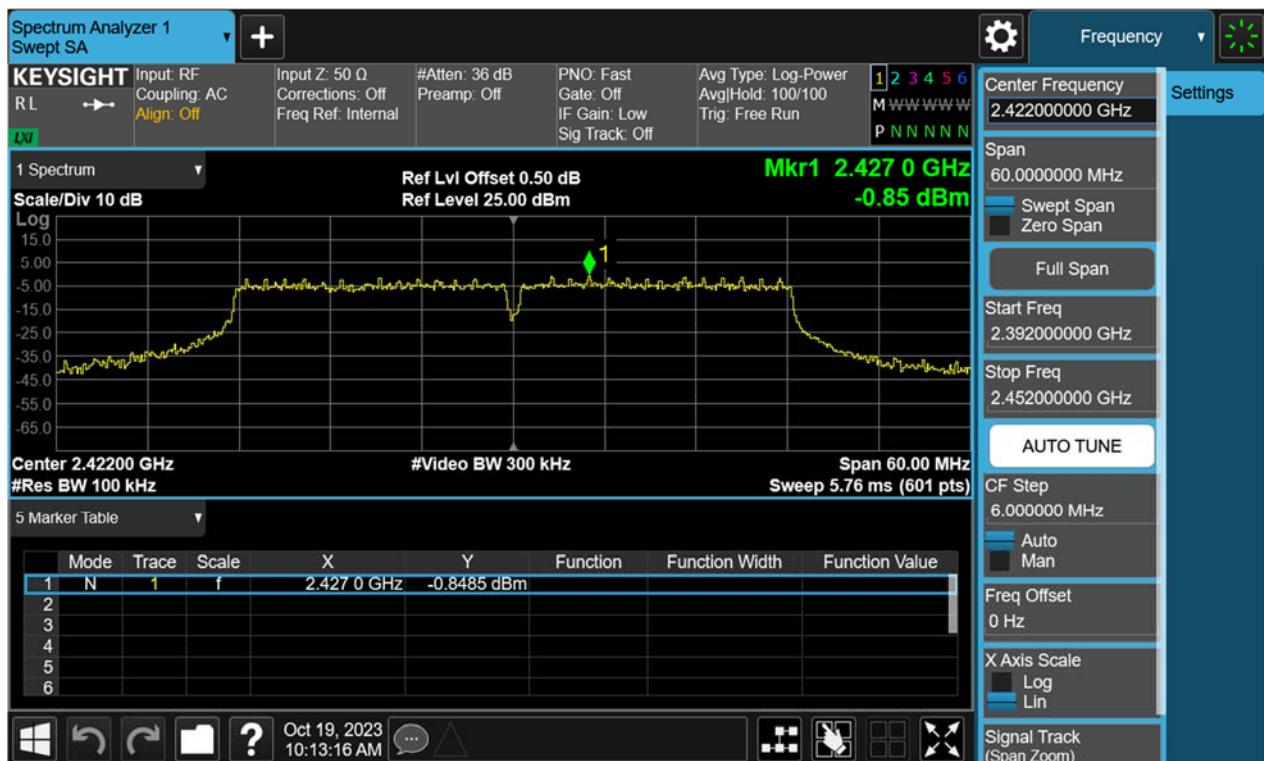
Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 44 of 60



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



TEST REPORT

Report No.: SHE23060106-01BE

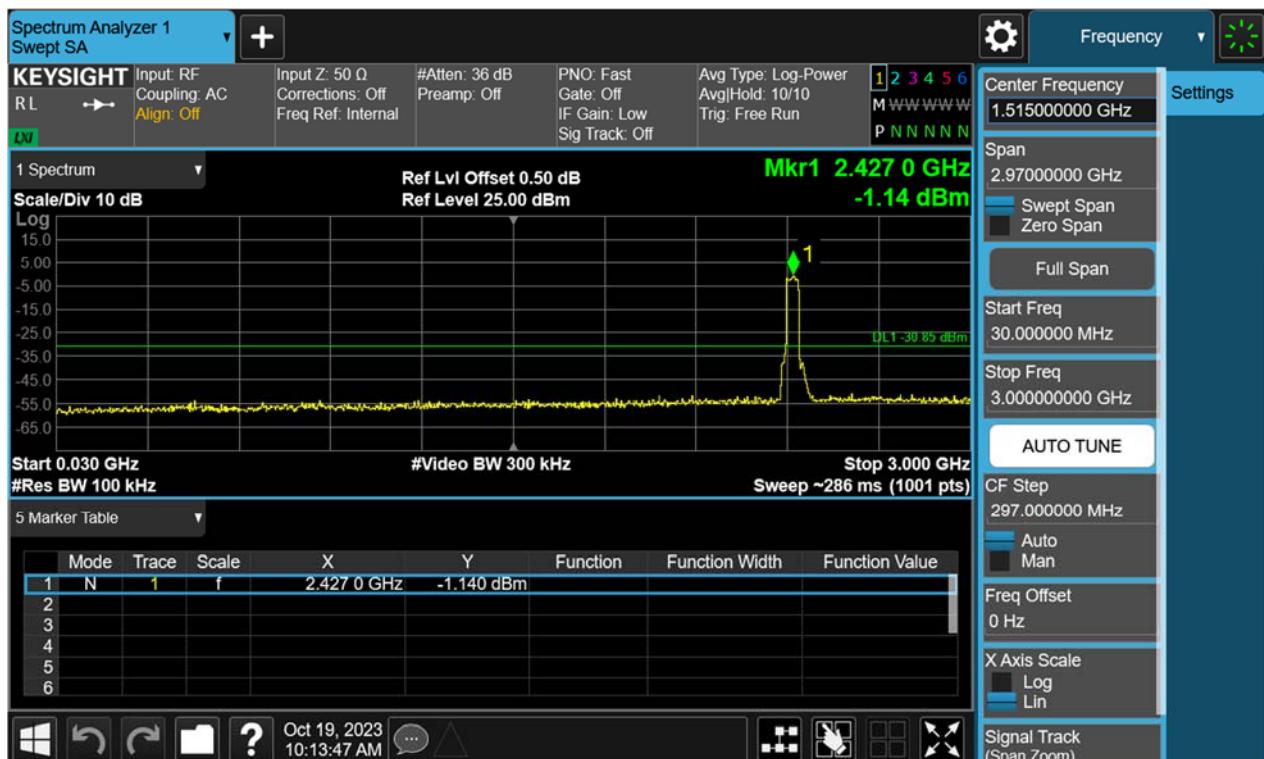
Date: 2023-10-19

Page 45 of 60

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 46 of 60



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



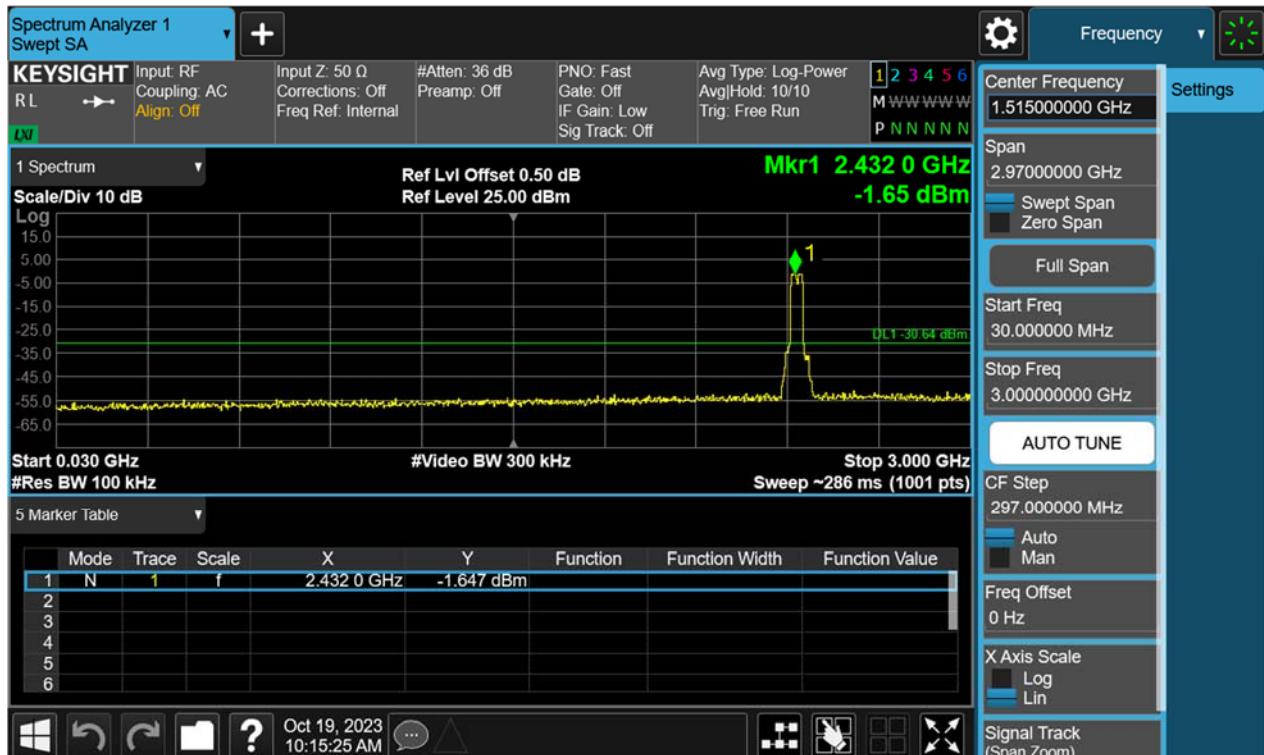
TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 47 of 60

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01BE

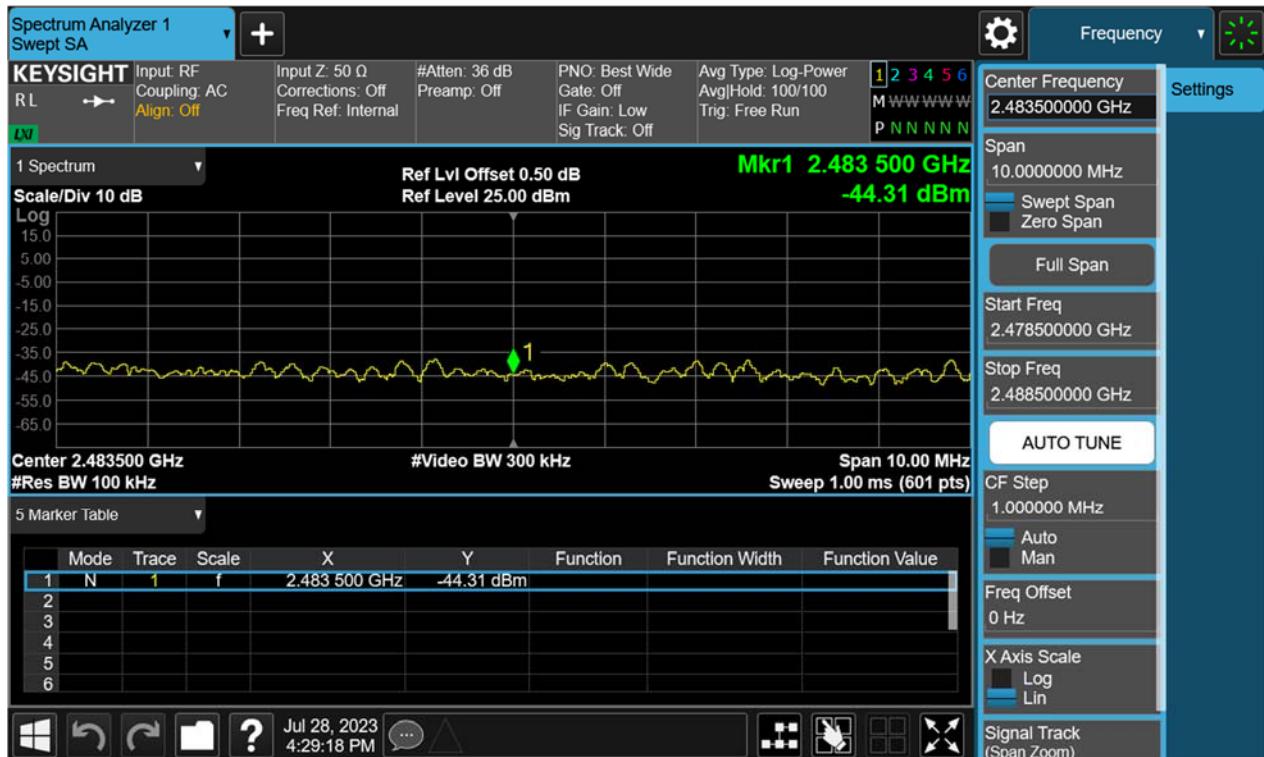
Date: 2023-10-19

Page 48 of 60

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



Band Edge



TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 49 of 60

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 50 of 60

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.

TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 51 of 60

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.

TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 52 of 60

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.

TEST REPORT

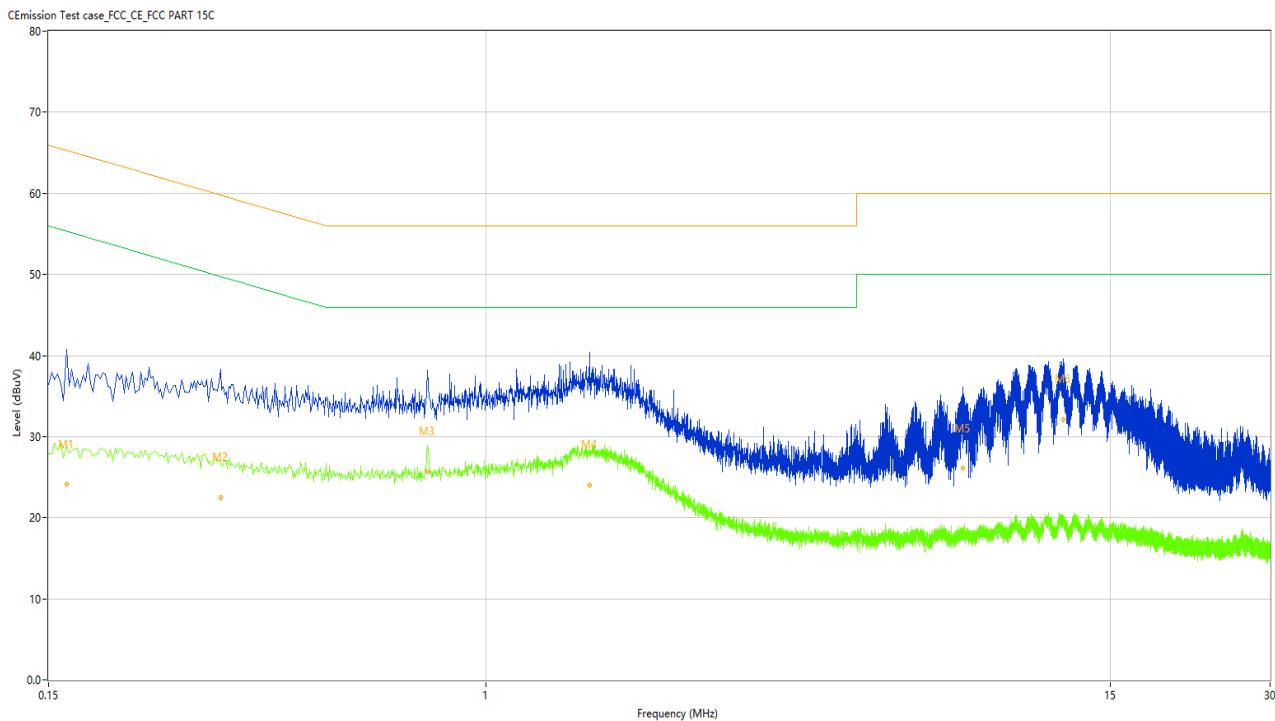
Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 53 of 60

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

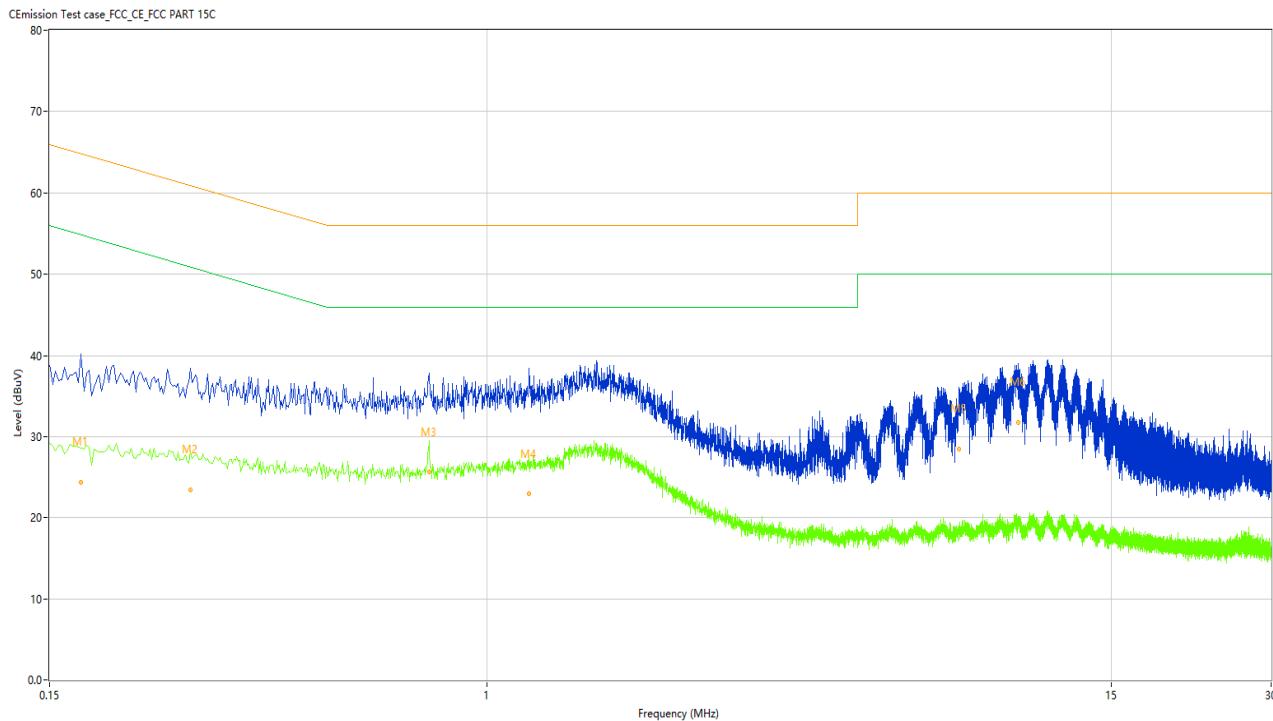
TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 54 of 60

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

TEST REPORT

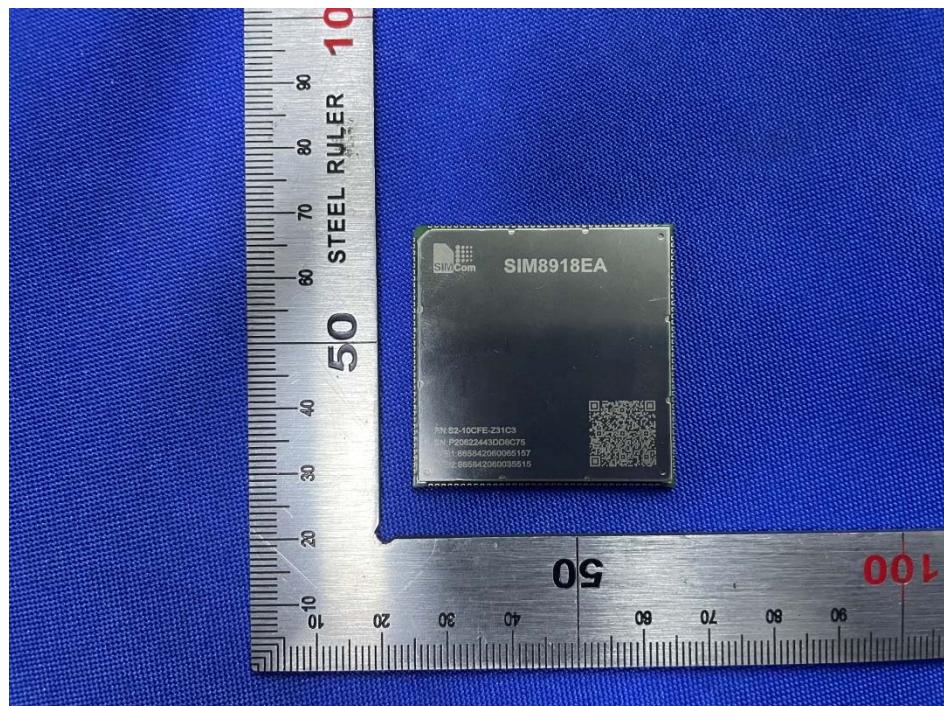
Report No.: SHE23060106-01BE

Date: 2023-10-19

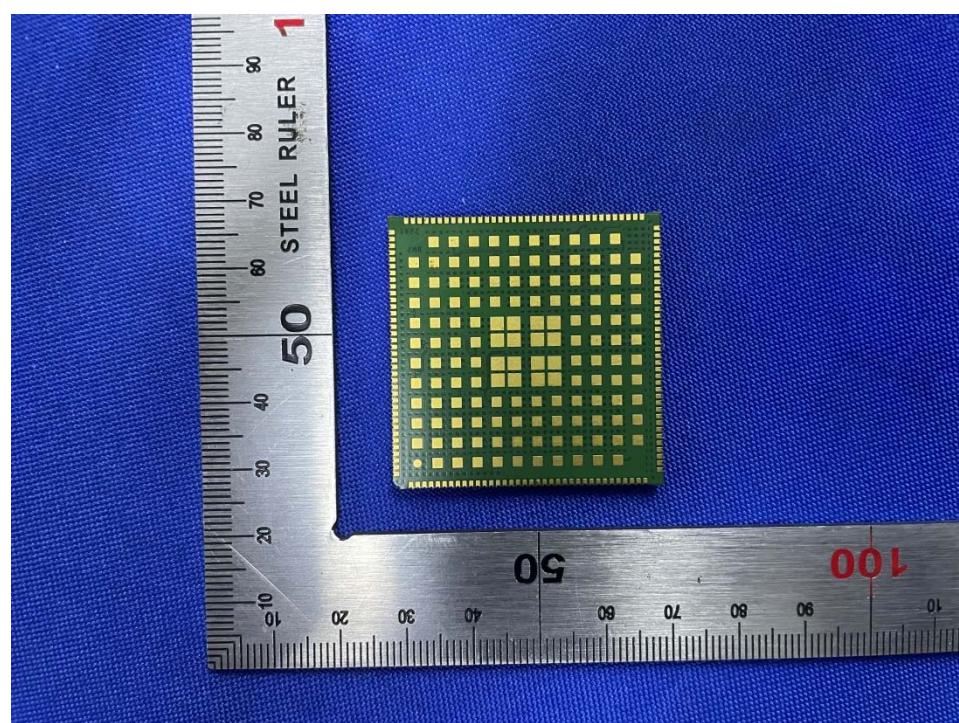
Page 55 of 60

5 Appendixes

5.1 Photographs of the Sample



Front of the sample



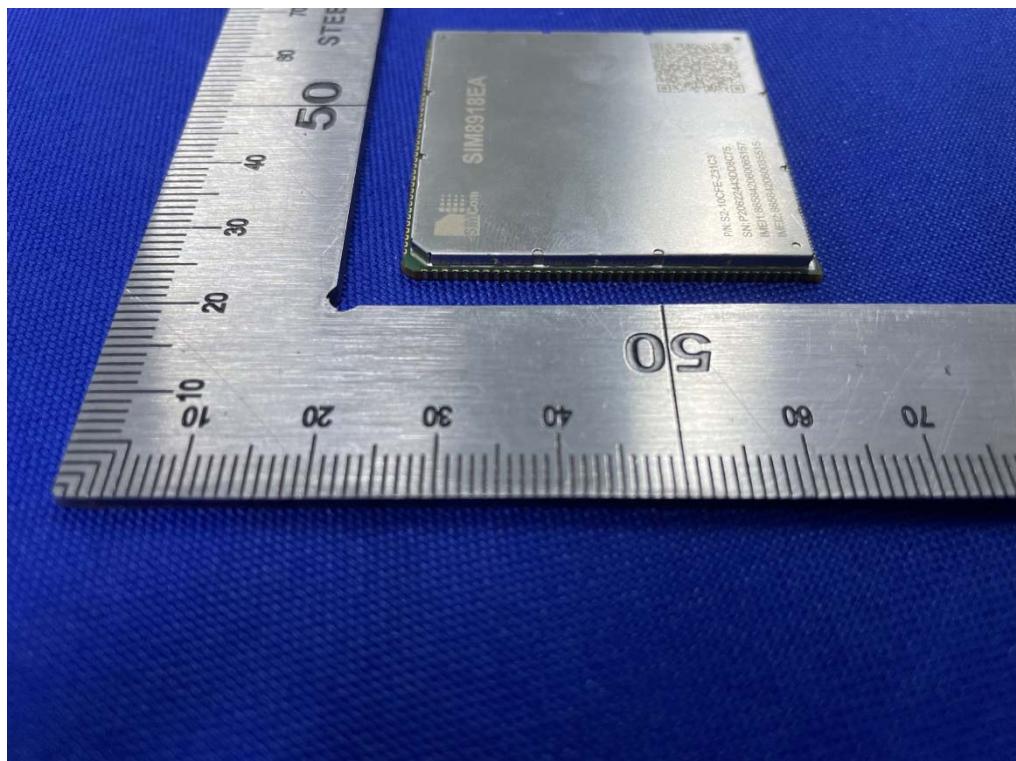
Rear of the sample

TEST REPORT

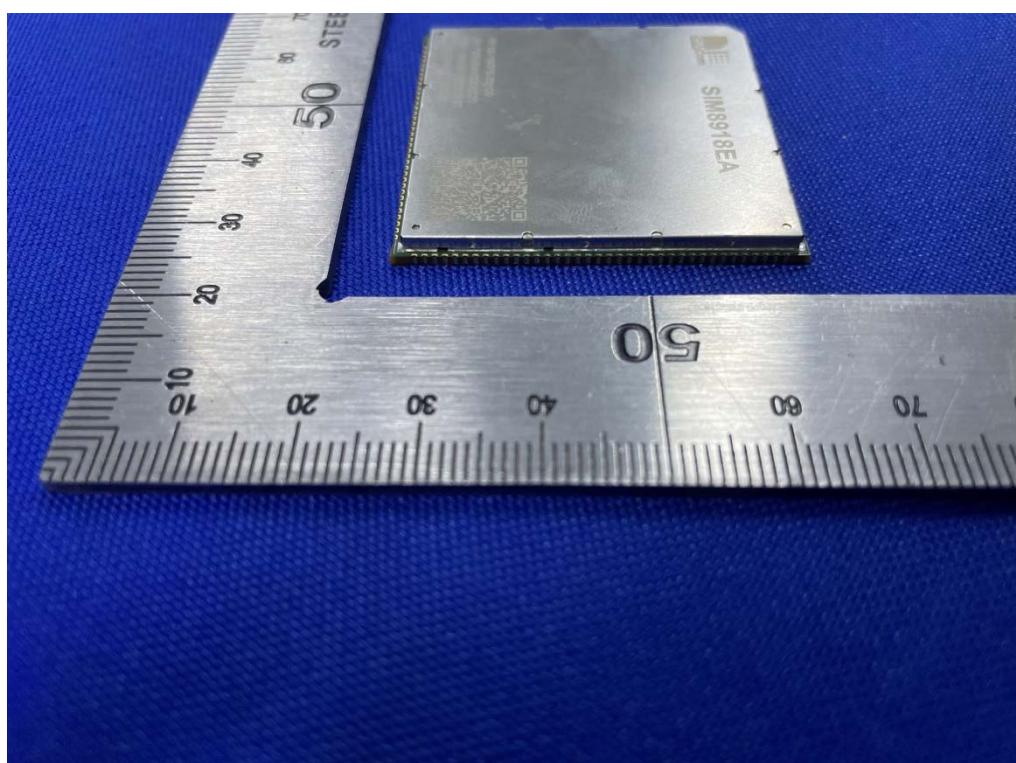
Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 56 of 60



Left of the sample



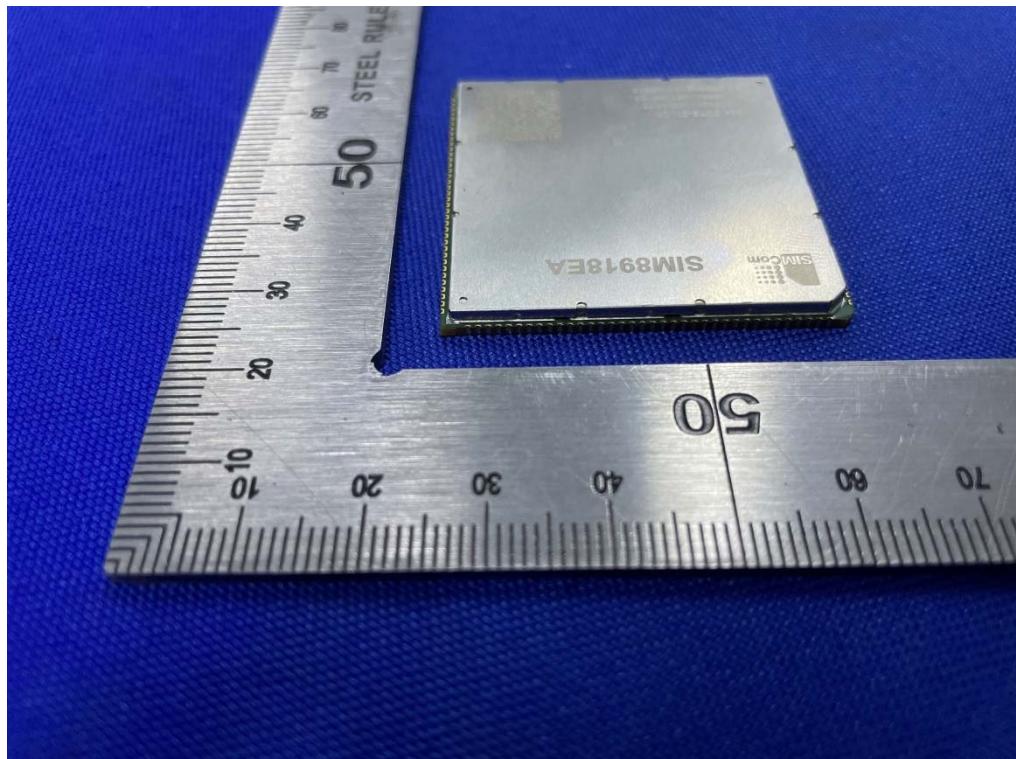
Right of the sample

TEST REPORT

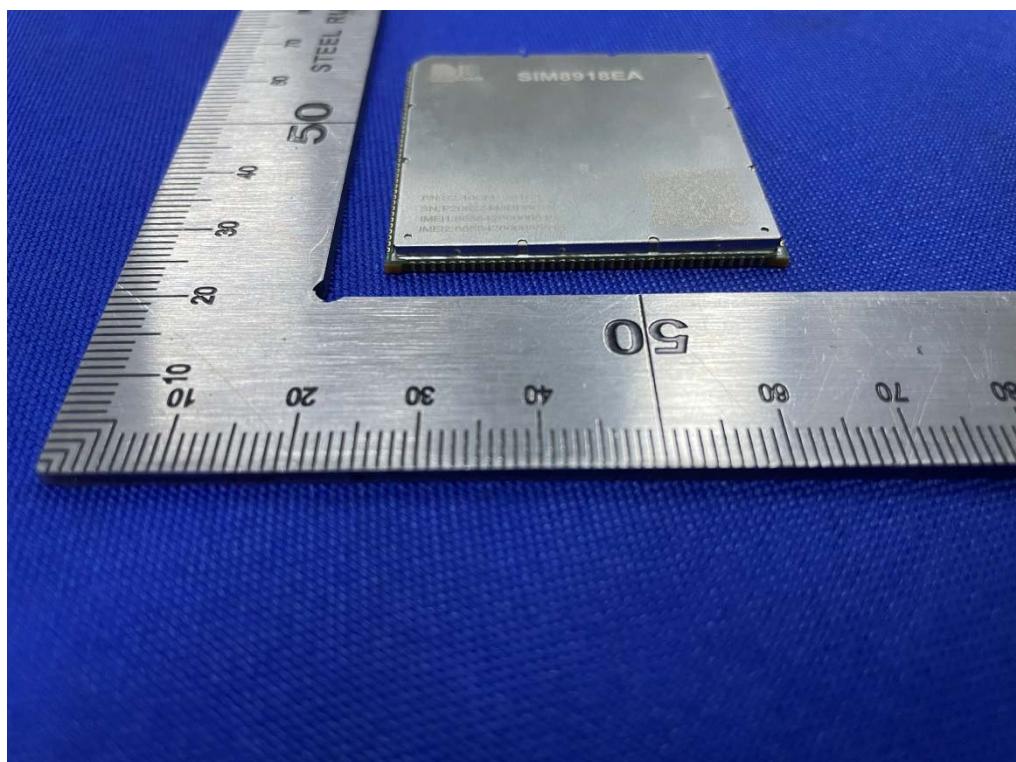
Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 57 of 60



Top of the sample



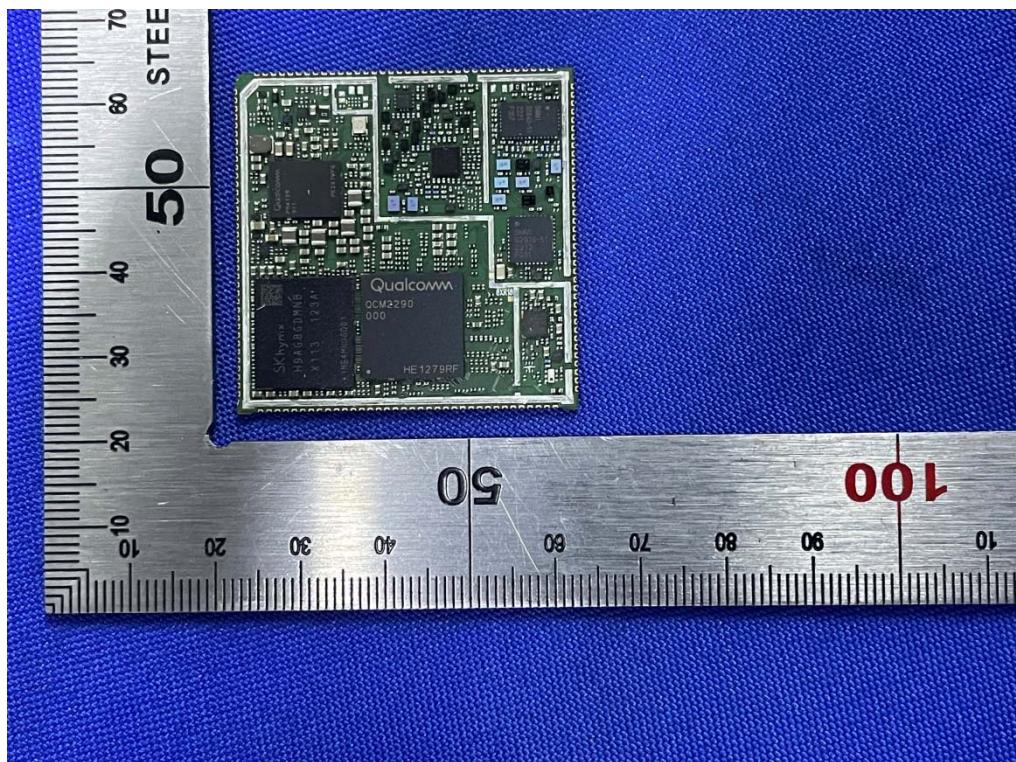
Bottom of the sample

TEST REPORT

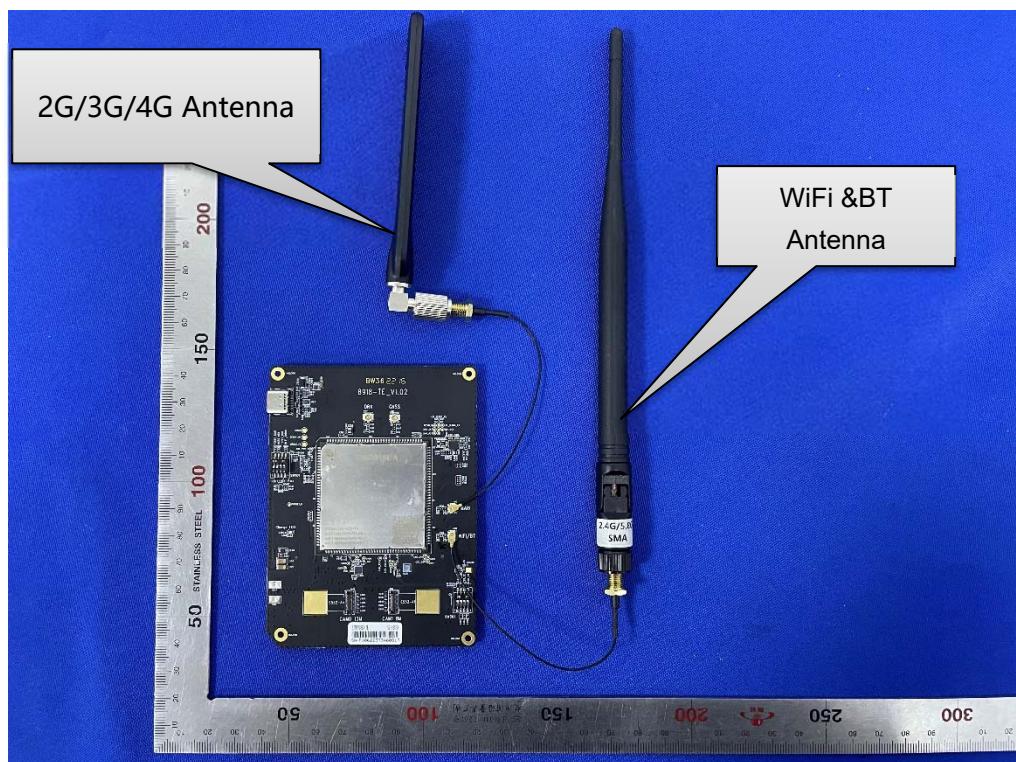
Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 58 of 60



Internal-1 of the sample



Antenna Photo

TEST REPORT

Report No.: SHE23060106-01BE

Date: 2023-10-19

Page 59 of 60

5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



TEST REPORT

Report No.: SHE23060106-01BE

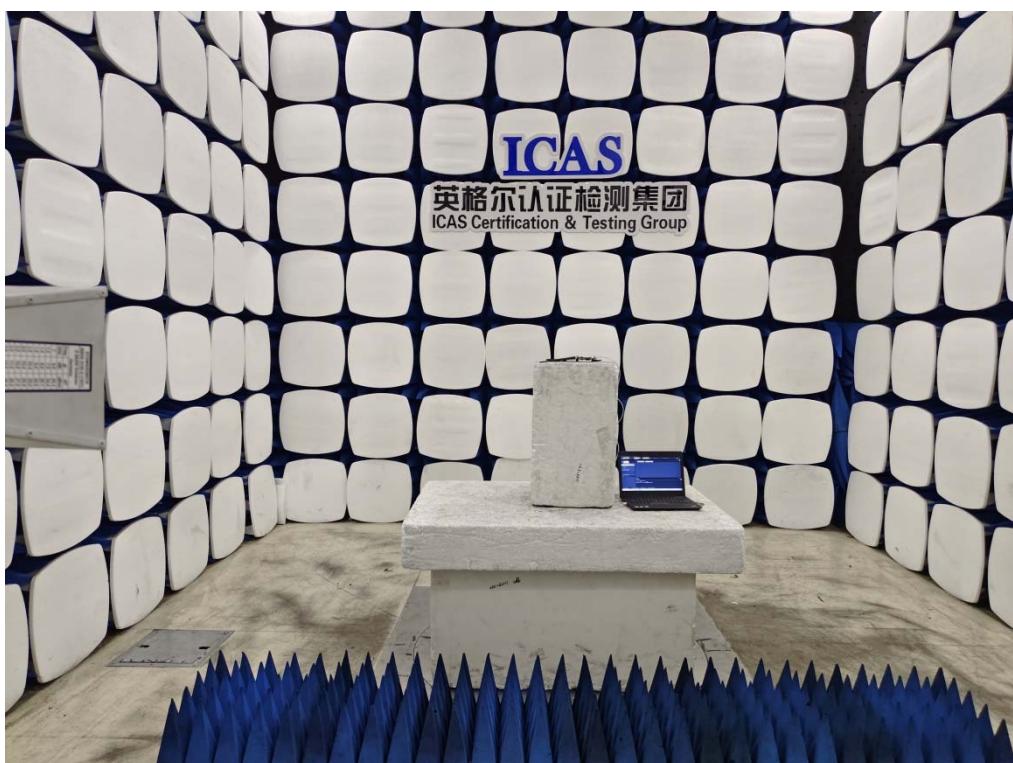
Date: 2023-10-19

Page 60 of 60

5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report