Figure 39: Time of Occupancy, 2441MHz, GFSK DH5

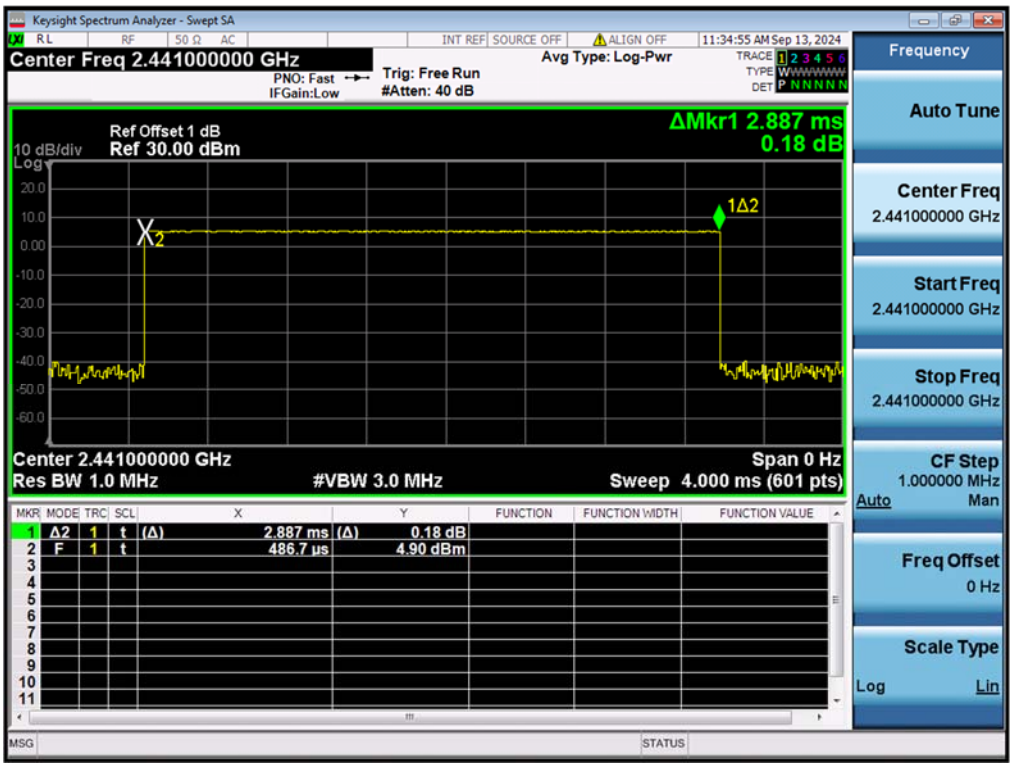


Figure 40: Time of Occupancy, 2441MHz, π/4-DQPSK DH1

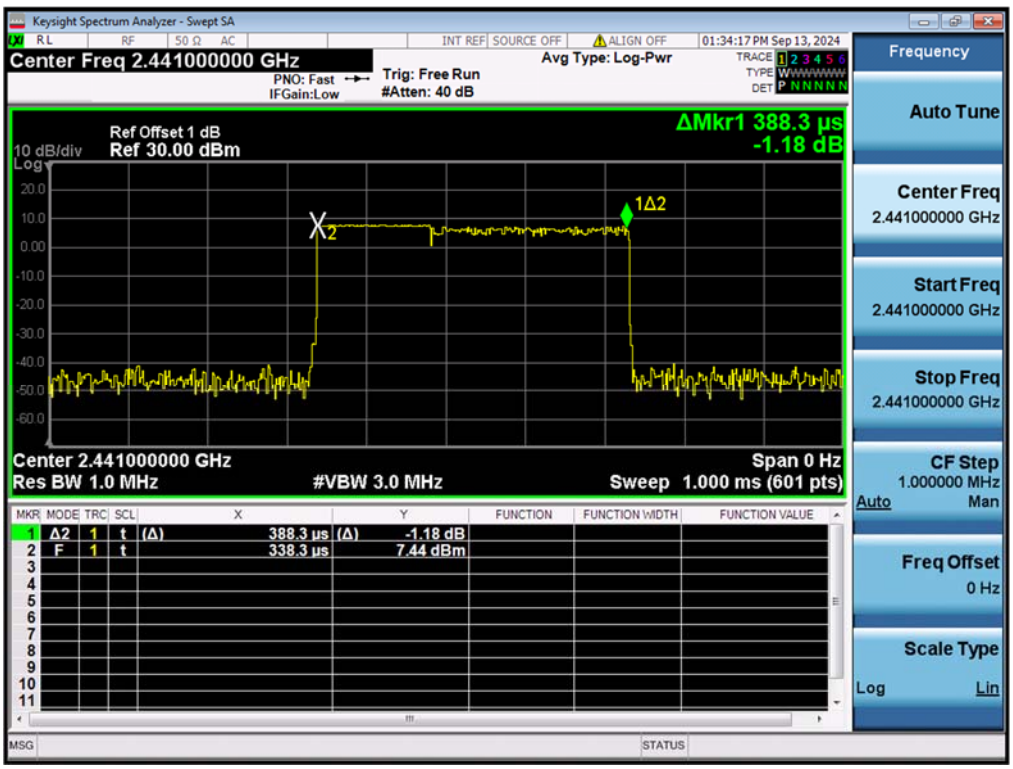


Figure 41: Time of Occupancy, 2441MHz, π/4-DQPSK DH3

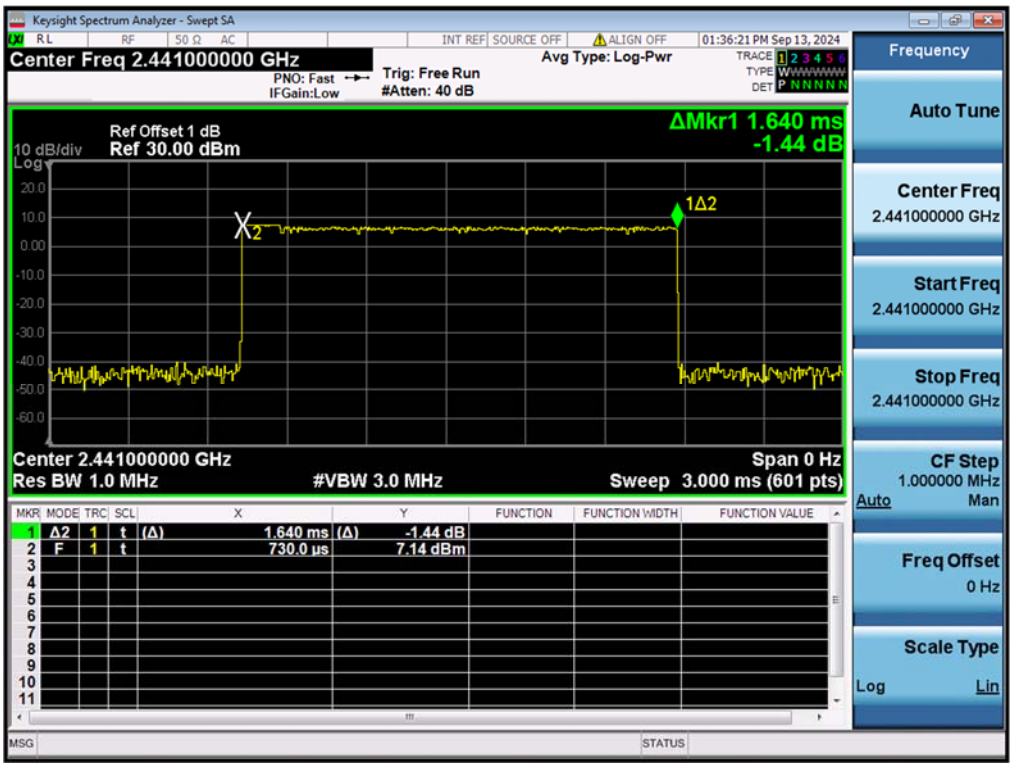


Figure 42: Time of Occupancy, 2441MHz, π/4-DQPSK DH5

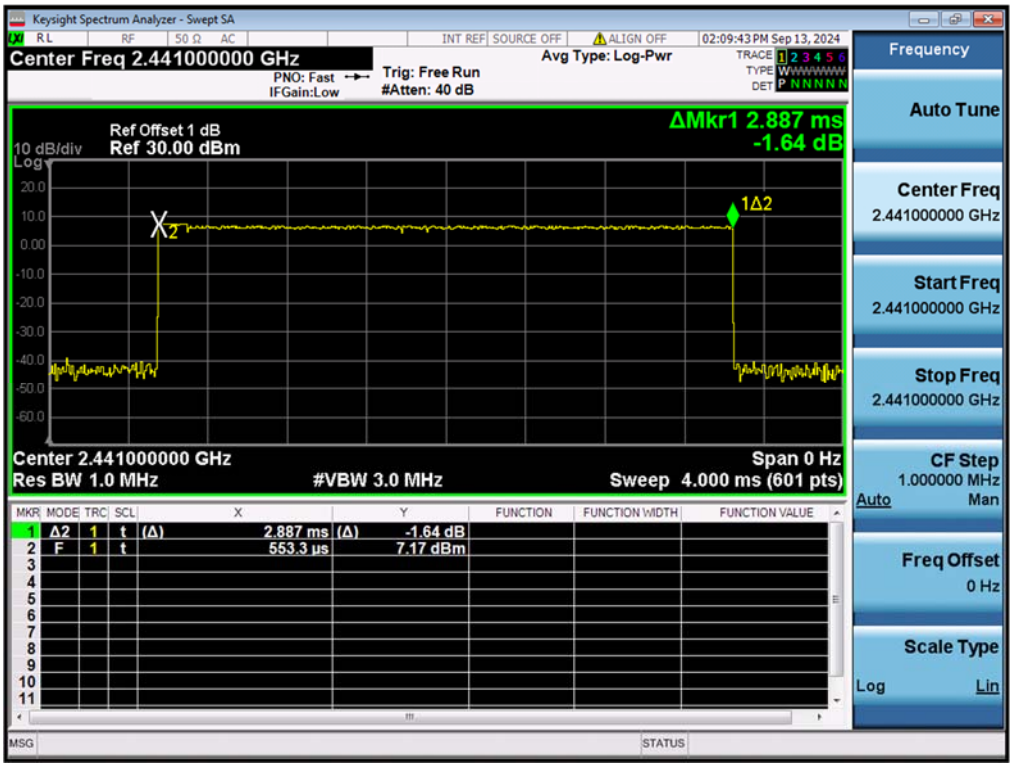


Figure 43: Time of Occupancy, 2441MHz, 8-DPSK DH1

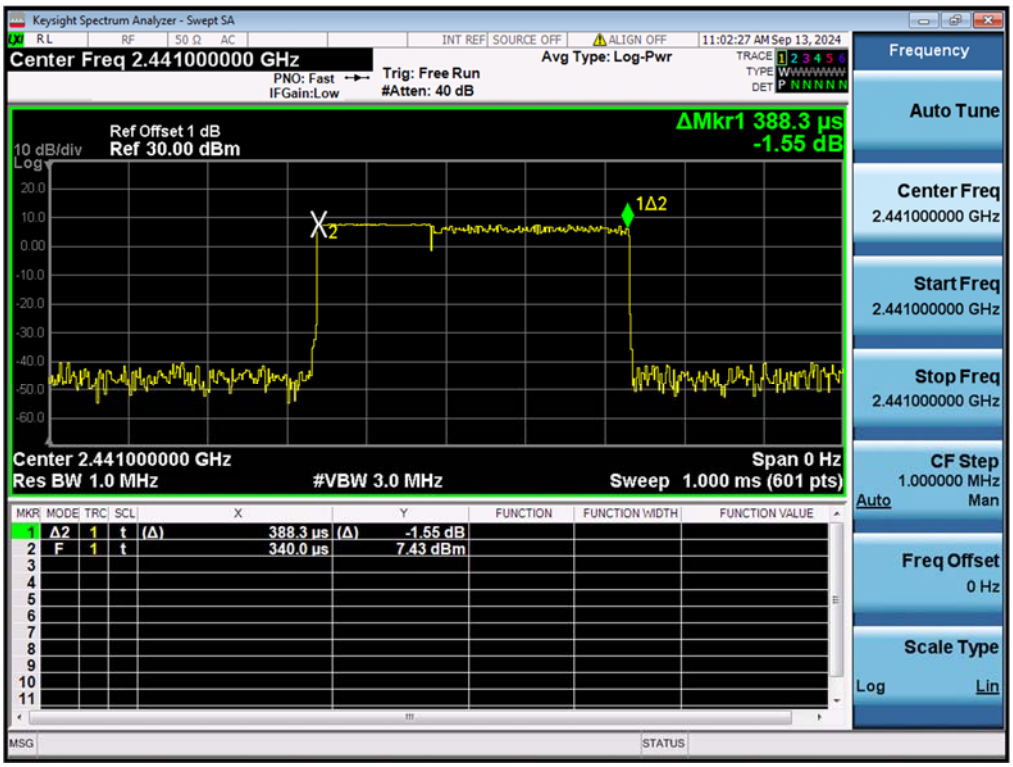


Figure 44: Time of Occupancy, 2441MHz, 8-DPSK DH3

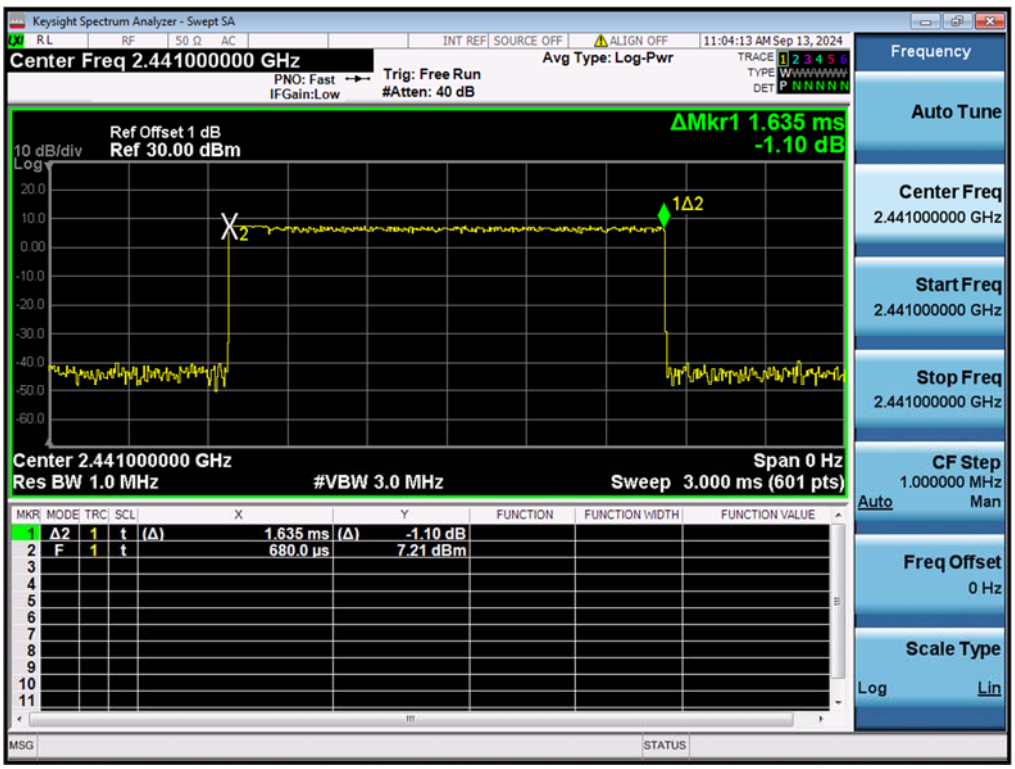
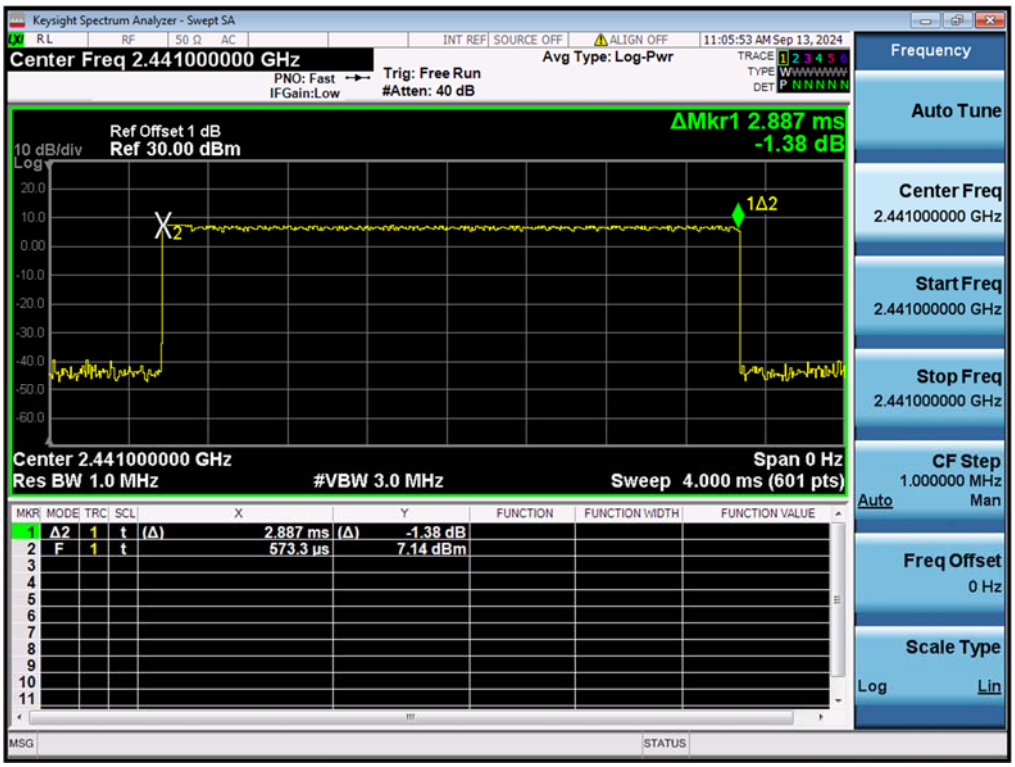


Figure 45: Time of Occupancy, 2441MHz, 8-DPSK DH5



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

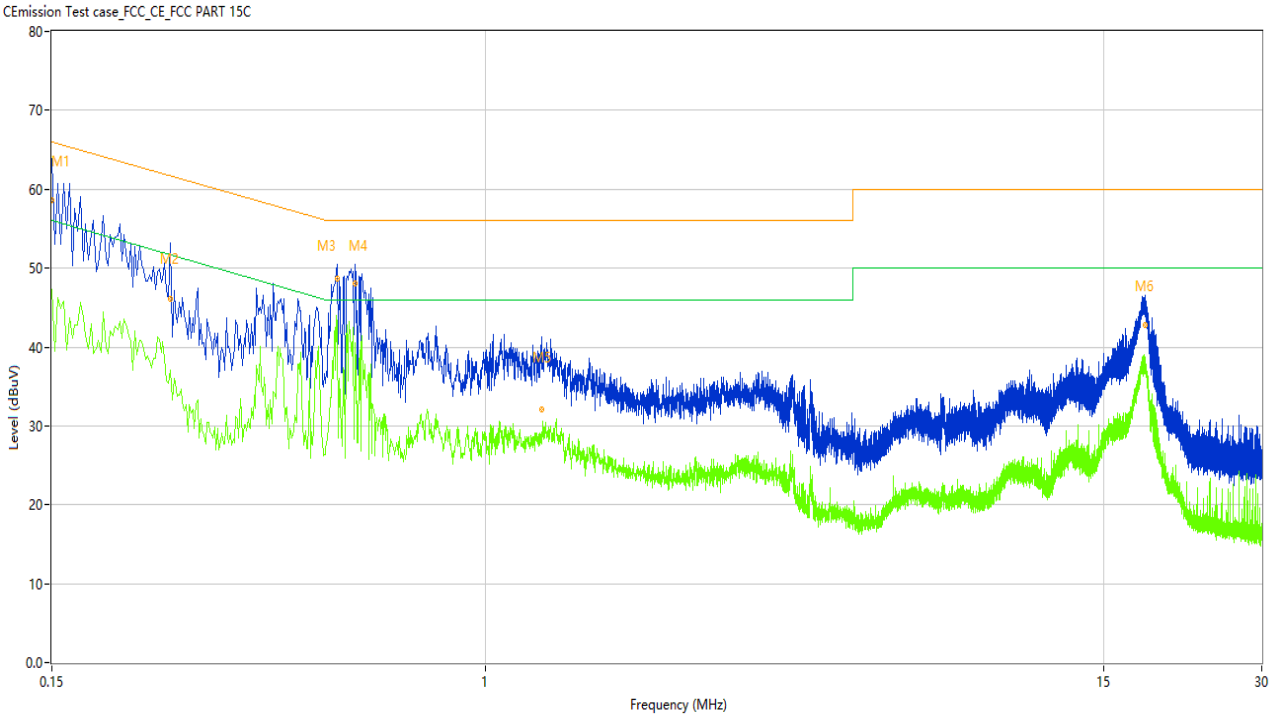
Test setup

Input Voltage	:	which received AC 120V, 60Hz Power
Operation Mode	:	A.1.a
Earthing	:	Connected to GND
Ambient temperature	:	26°C
Relative humidity	:	49%

For details refer to following test plot.

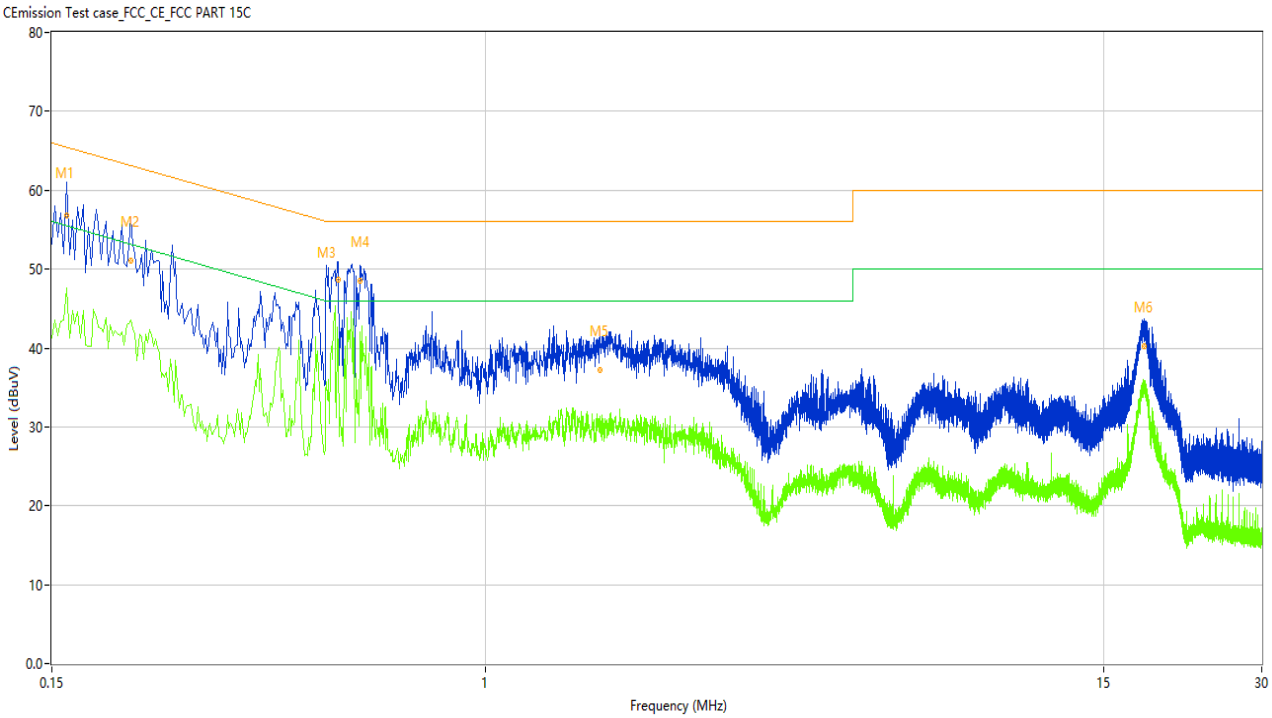
Note：The all configurations were tested respectively, Only the worst mode data of 8DPSK-hopping-DH5 was recorded in the test report.

Figure 46: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	65.50	9.85	66.00	0.50	Peak	L	Pass
1*	0.150	58.64	9.85	66.00	7.36	QP	L	Pass
1**	0.150	47.35	9.85	56.00	8.65	AV	L	Pass
2	0.252	53.96	9.96	61.69	7.73	Peak	L	Pass
2*	0.252	46.11	9.96	61.69	15.58	QP	L	Pass
2**	0.252	37.12	9.96	51.69	14.57	AV	L	Pass
3	0.524	50.53	9.87	56.00	5.47	Peak	L	Pass
3*	0.524	48.71	9.87	56.00	7.29	QP	L	Pass
3**	0.524	43.13	9.87	46.00	2.87	AV	L	Pass
4	0.566	50.63	9.88	56.00	5.37	Peak	L	Pass
4*	0.566	48.09	9.88	56.00	7.91	QP	L	Pass
4**	0.566	40.51	9.88	46.00	5.49	AV	L	Pass
5	1.280	38.74	9.76	56.00	17.26	Peak	L	Pass
5*	1.280	32.05	9.76	56.00	23.95	QP	L	Pass
5**	1.280	29.16	9.76	46.00	16.84	AV	L	Pass
6	17.980	46.97	9.39	60.00	13.03	Peak	L	Pass
6*	17.980	42.73	9.39	60.00	17.27	QP	L	Pass
6**	17.980	37.88	9.39	50.00	12.12	AV	L	Pass

Figure 47: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	62.29	9.98	65.46	3.17	Peak	N	Pass
1*	0.160	56.81	9.98	65.46	8.65	QP	N	Pass
1**	0.160	47.57	9.98	55.46	7.89	AV	N	Pass
2	0.212	57.92	9.98	63.13	5.21	Peak	N	Pass
2*	0.212	51.12	9.98	63.13	12.01	QP	N	Pass
2**	0.212	43.53	9.98	53.13	9.60	AV	N	Pass
3	0.526	52.63	10.03	56.00	3.37	Peak	N	Pass
3*	0.526	48.60	10.03	56.00	7.40	QP	N	Pass
3**	0.526	39.84	10.03	46.00	6.16	AV	N	Pass
4	0.578	51.61	10.02	56.00	4.39	Peak	N	Pass
4*	0.578	48.52	10.02	56.00	7.48	QP	N	Pass
4**	0.578	42.04	10.02	46.00	3.96	AV	N	Pass
5	1.652	41.88	9.89	56.00	14.12	Peak	N	Pass
5*	1.652	37.24	9.89	56.00	18.76	QP	N	Pass
5**	1.652	29.96	9.89	46.00	16.04	AV	N	Pass
6	17.894	44.20	9.42	60.00	15.80	Peak	N	Pass
6*	17.894	40.26	9.42	60.00	19.74	QP	N	Pass
6**	17.894	35.77	9.42	50.00	14.23	AV	N	Pass

5 Appendixes

5.1 Photographs of the Sample

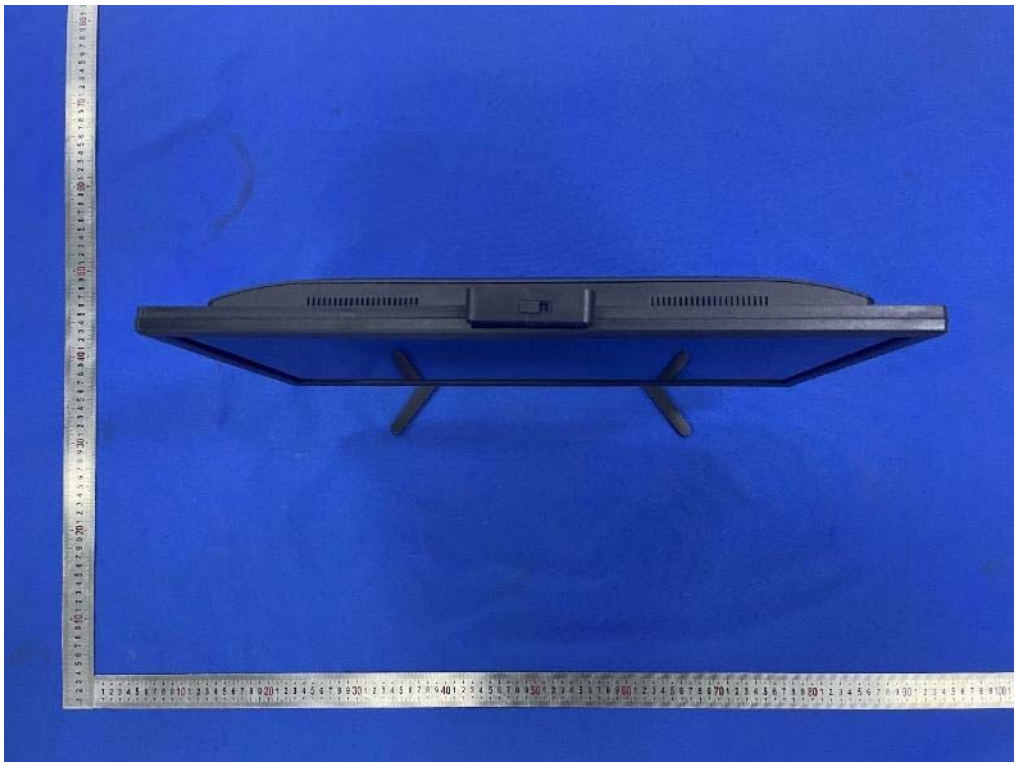
All of the sample

Front of the sample

Rear of the sample

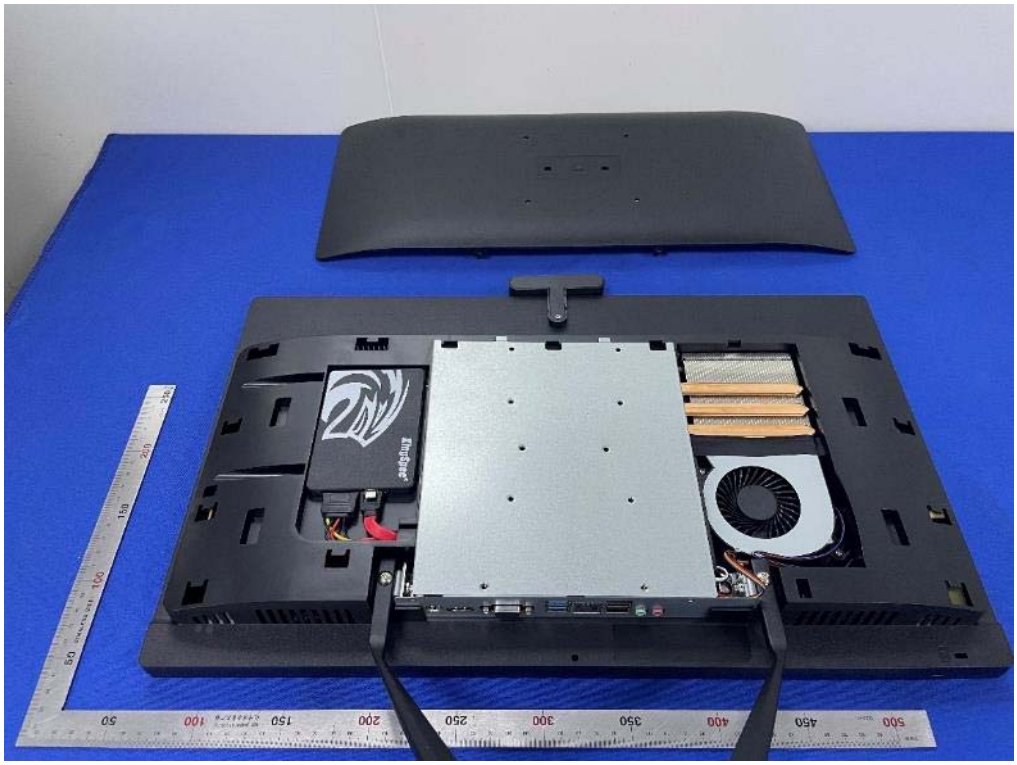
Left of the sample

Right of the sample

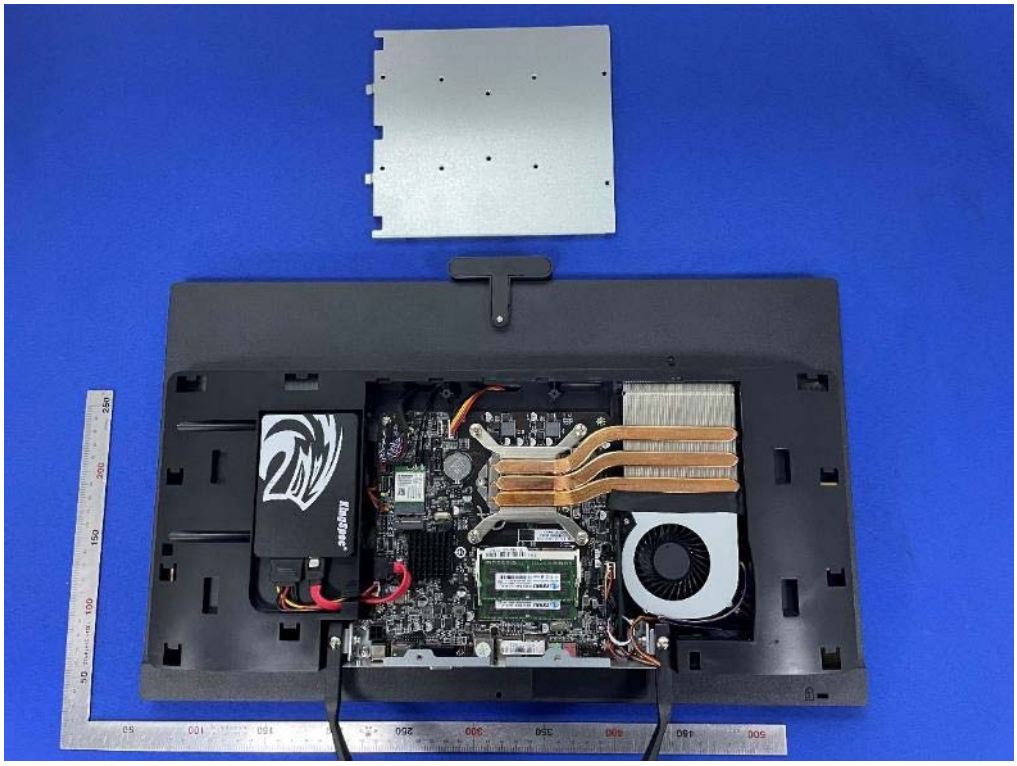


Top of the sample

Bottom of the sample



Open-1 of the sample



Open-2 of the sample

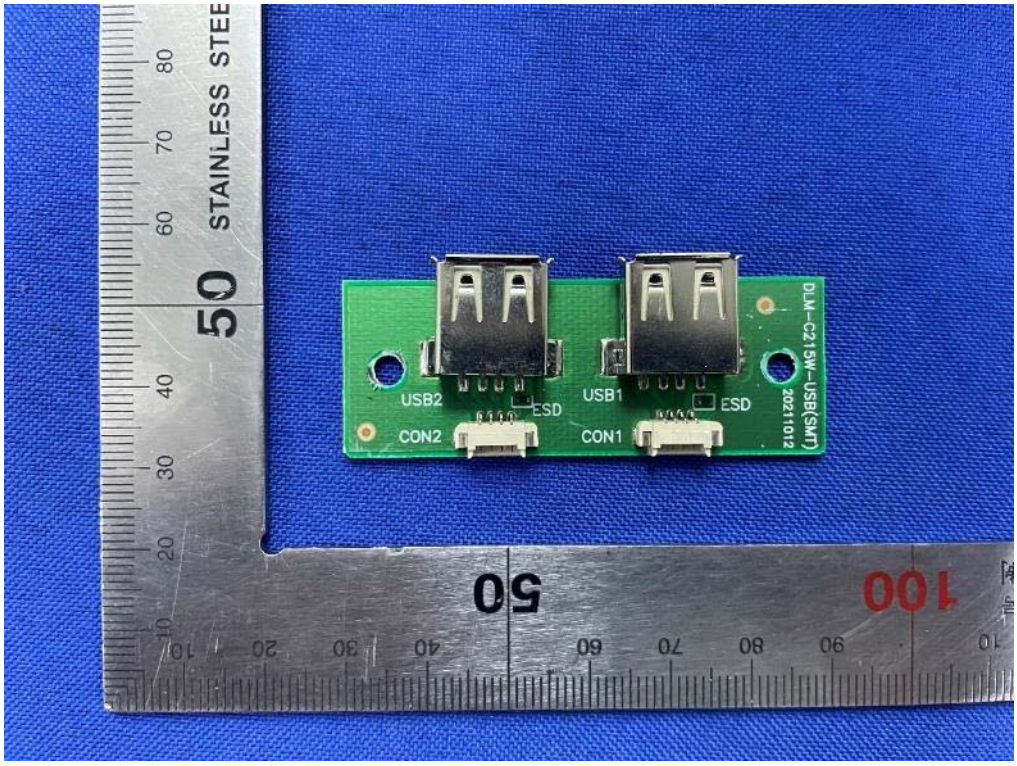
Open-3 of the sample

Internal-1 of the sample

Internal-2 of the sample

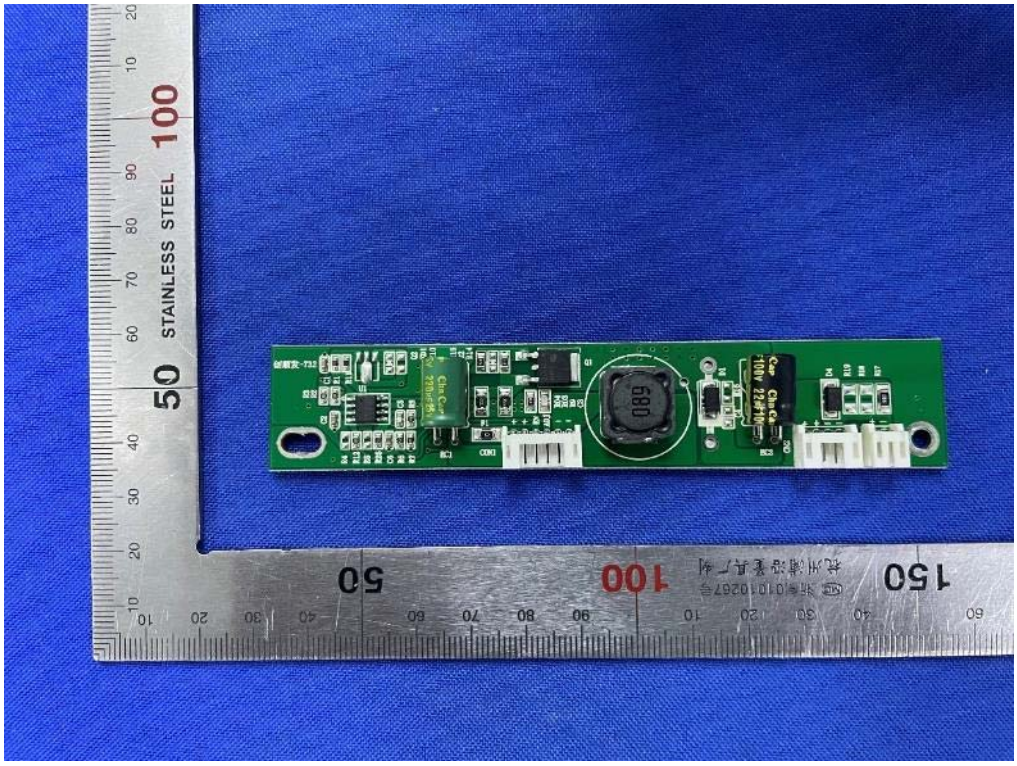
Internal-3 of the sample

Internal-4 of the sample

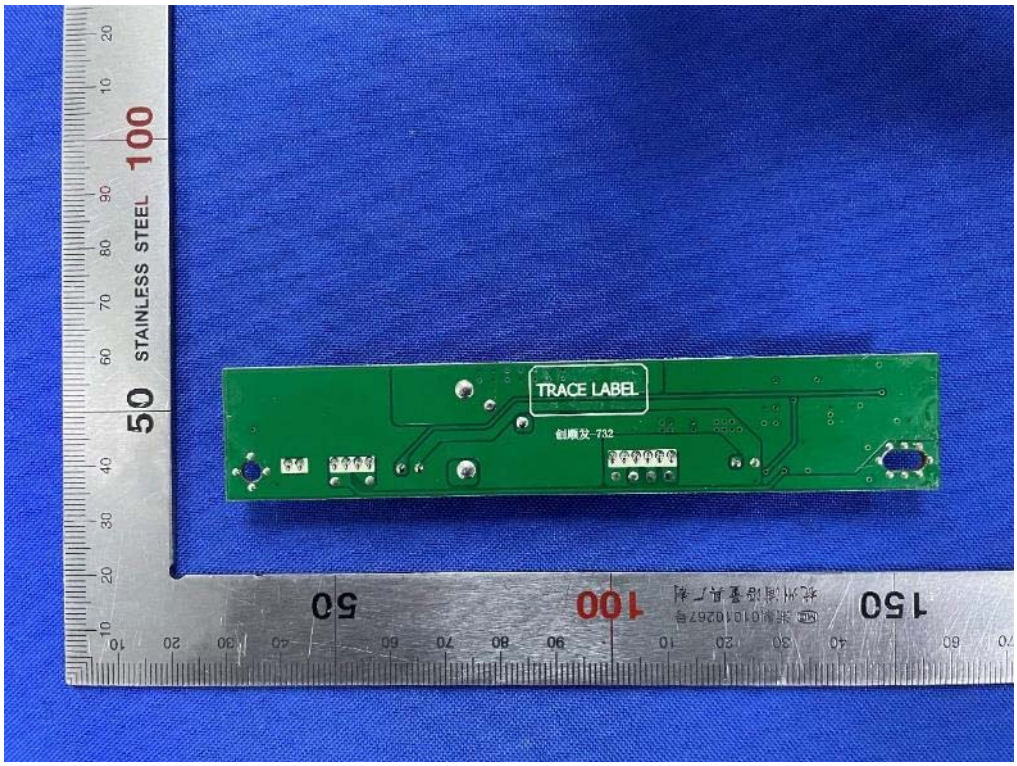


Internal-5 of the sample

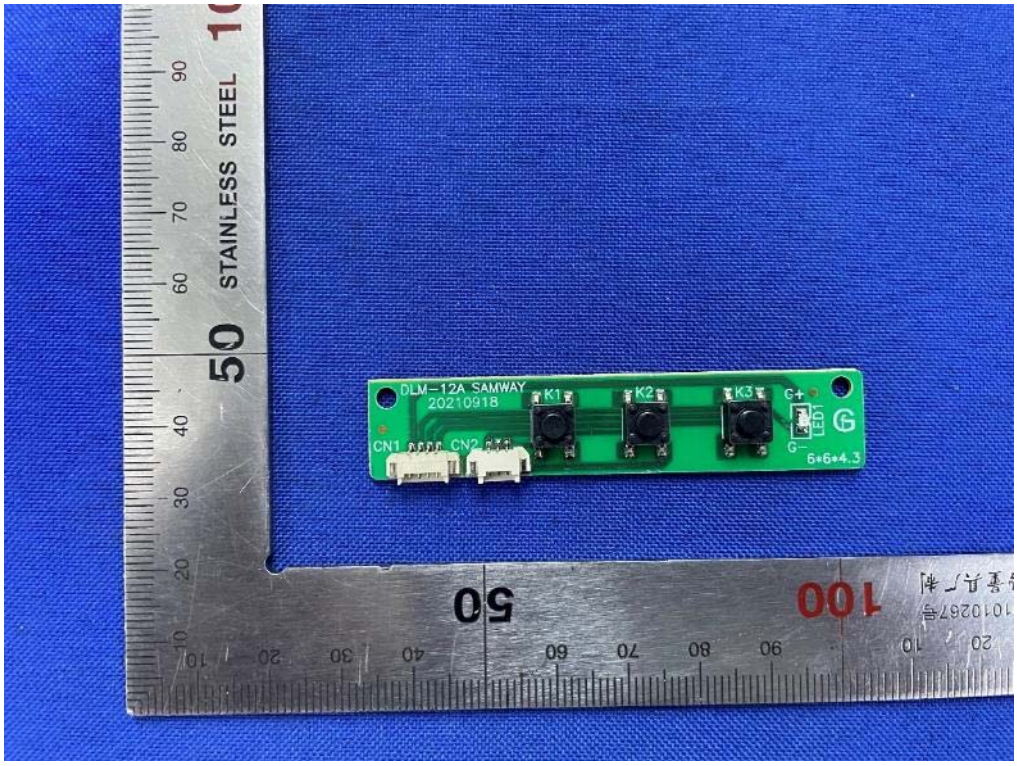
Internal-6 of the sample



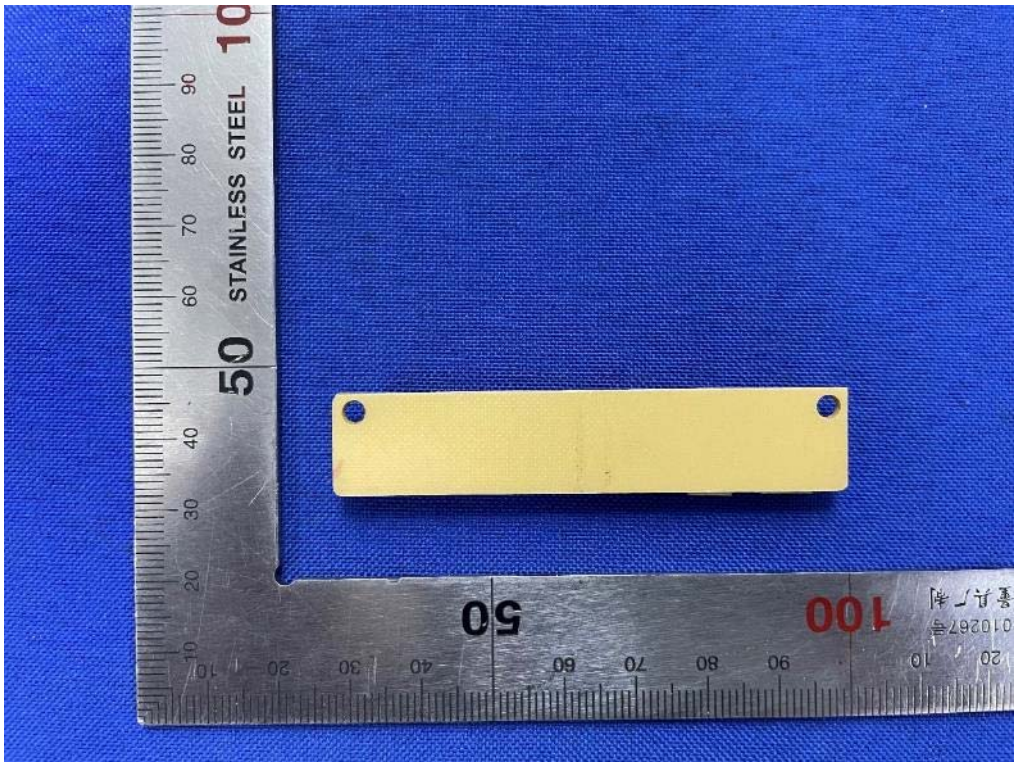
Internal-7 of the sample



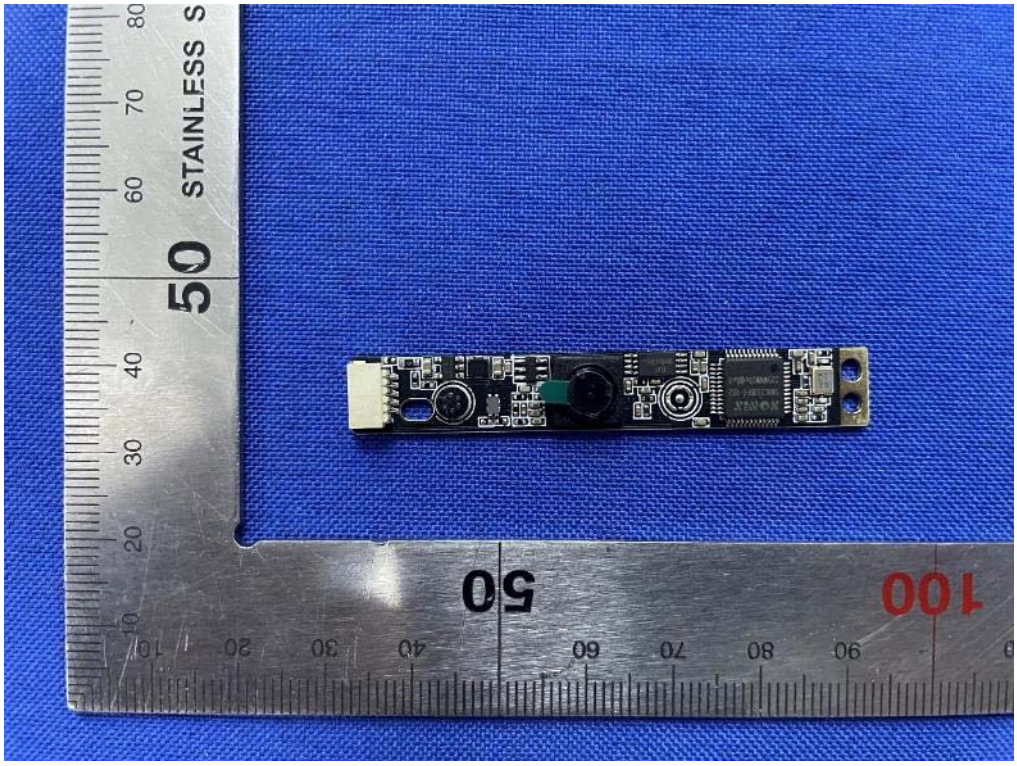
Internal-8 of the sample



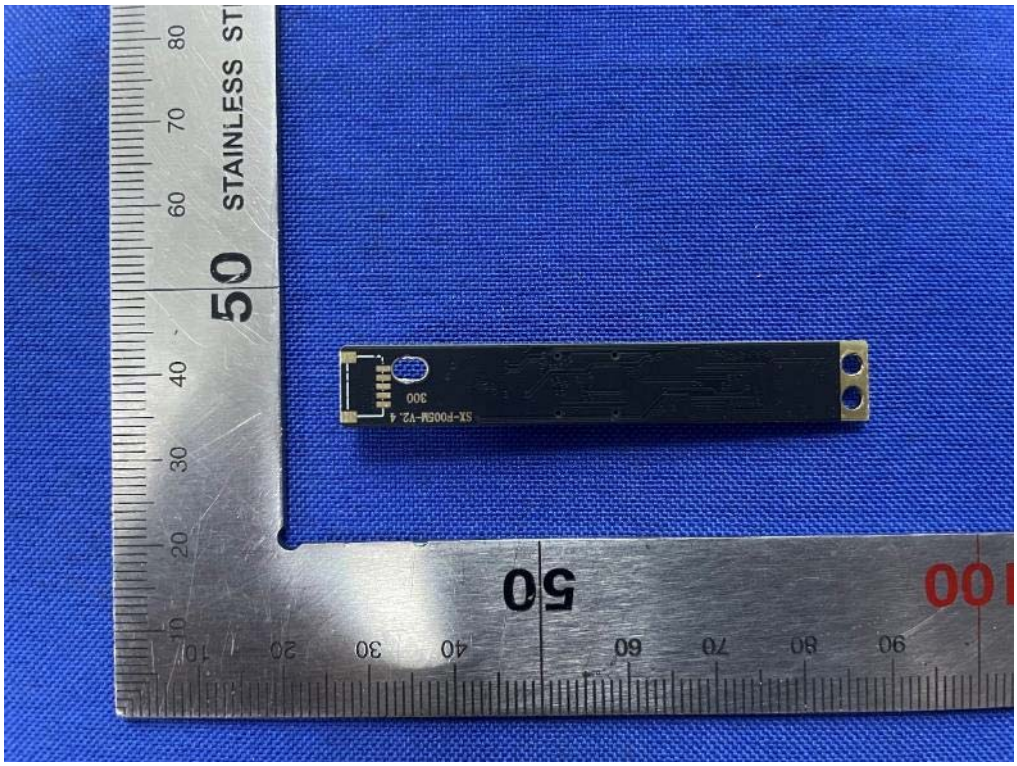
Internal-9 of the sample



Internal-10 of the sample

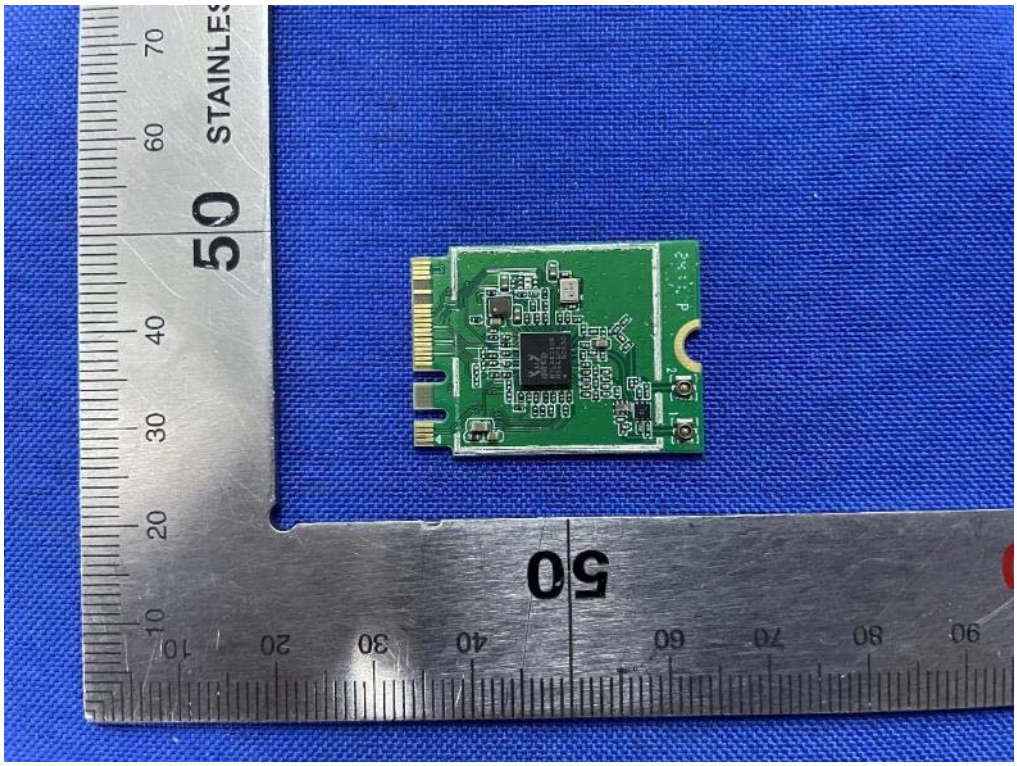


Internal-11 of the sample

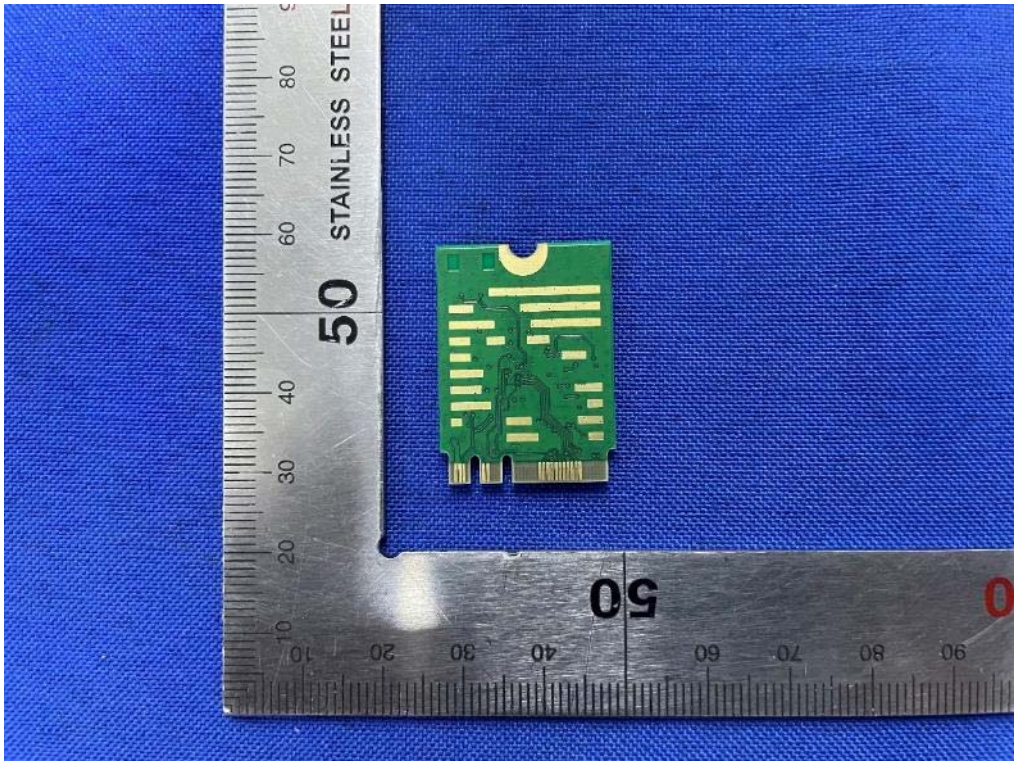


Internal-12 of the sample

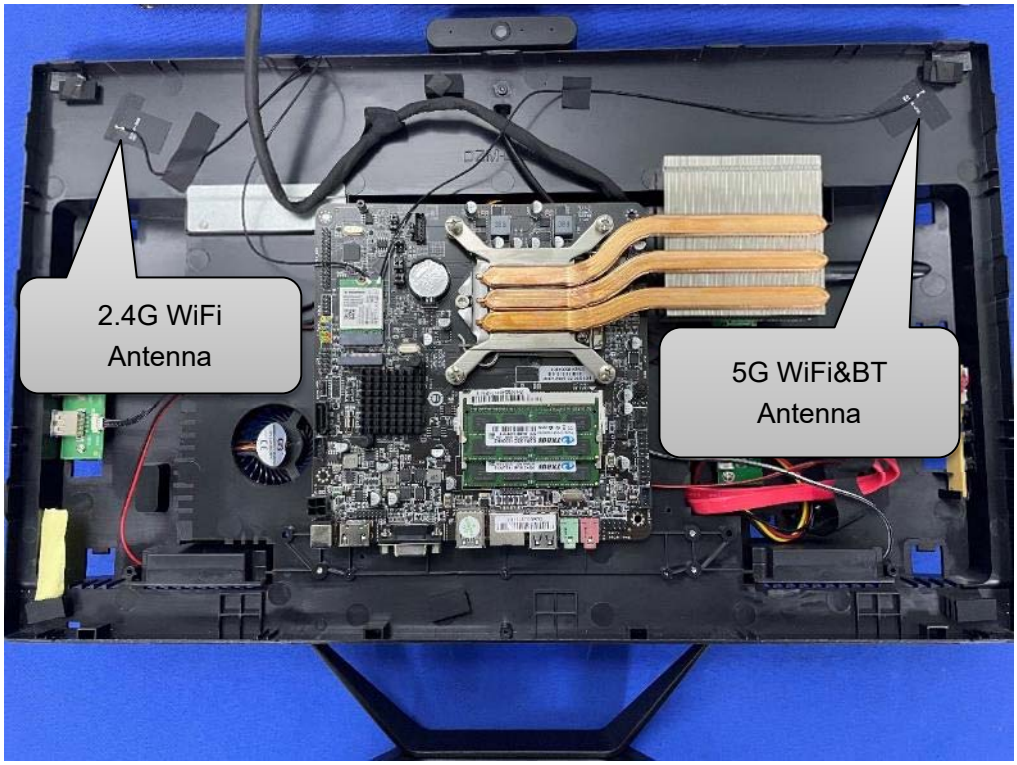
Internal-13 of the sample



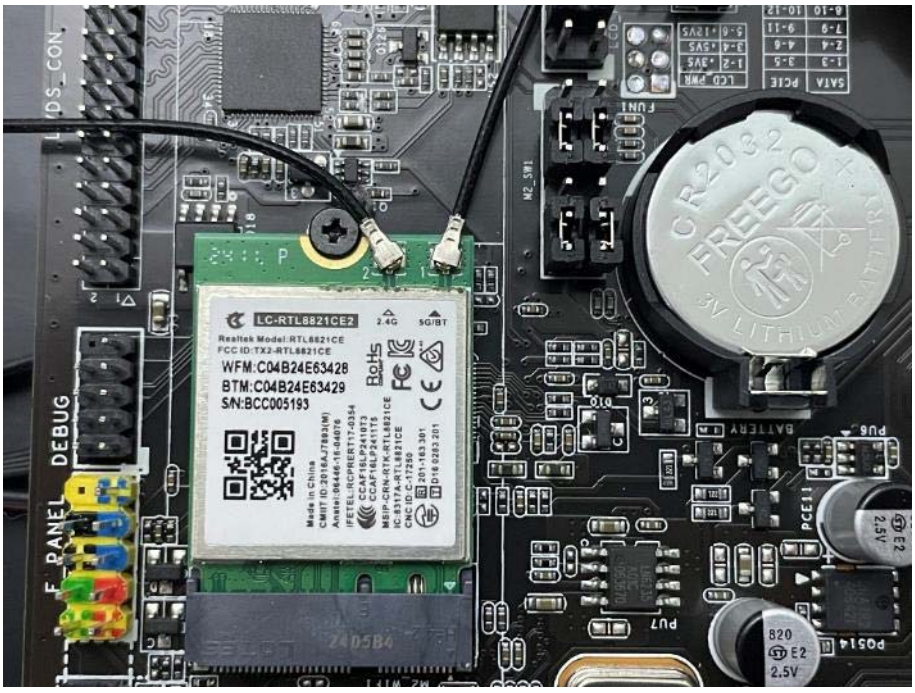
Internal-14 of the sample



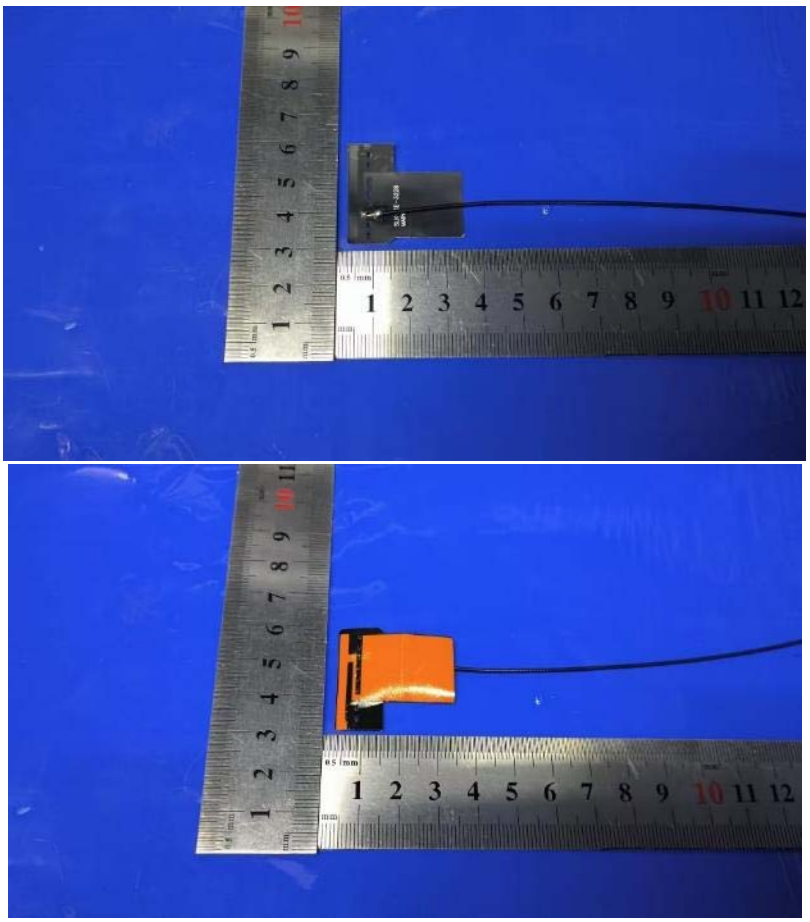
Internal-15 of the sample



Antenna Position



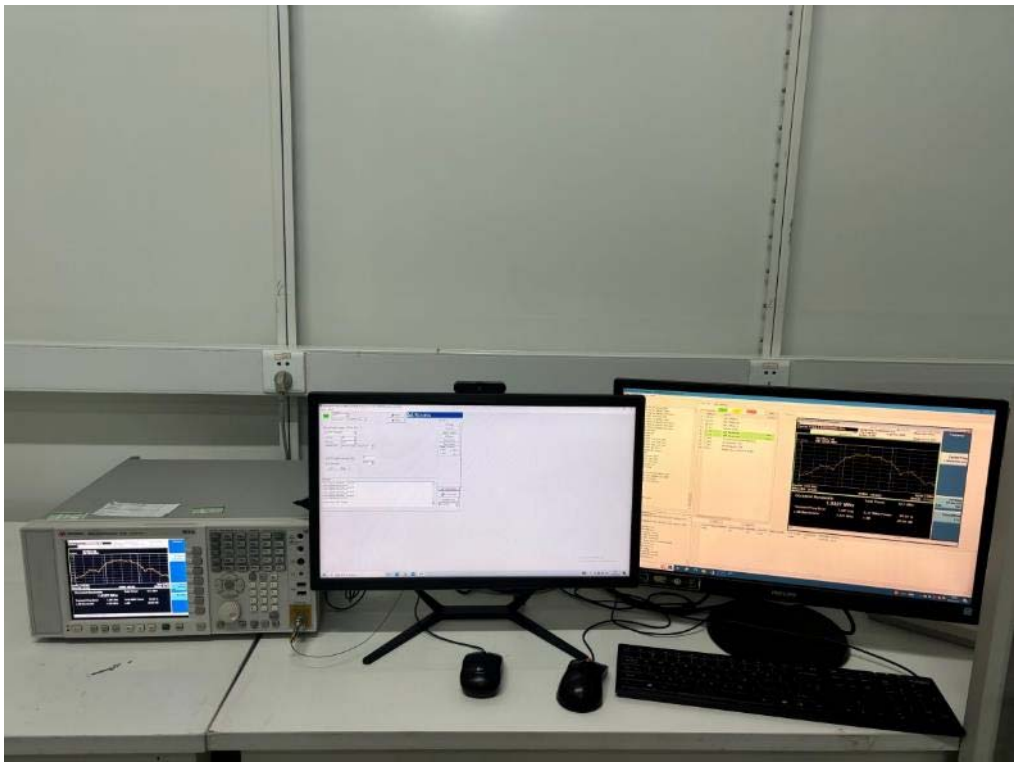
Antenna Interface



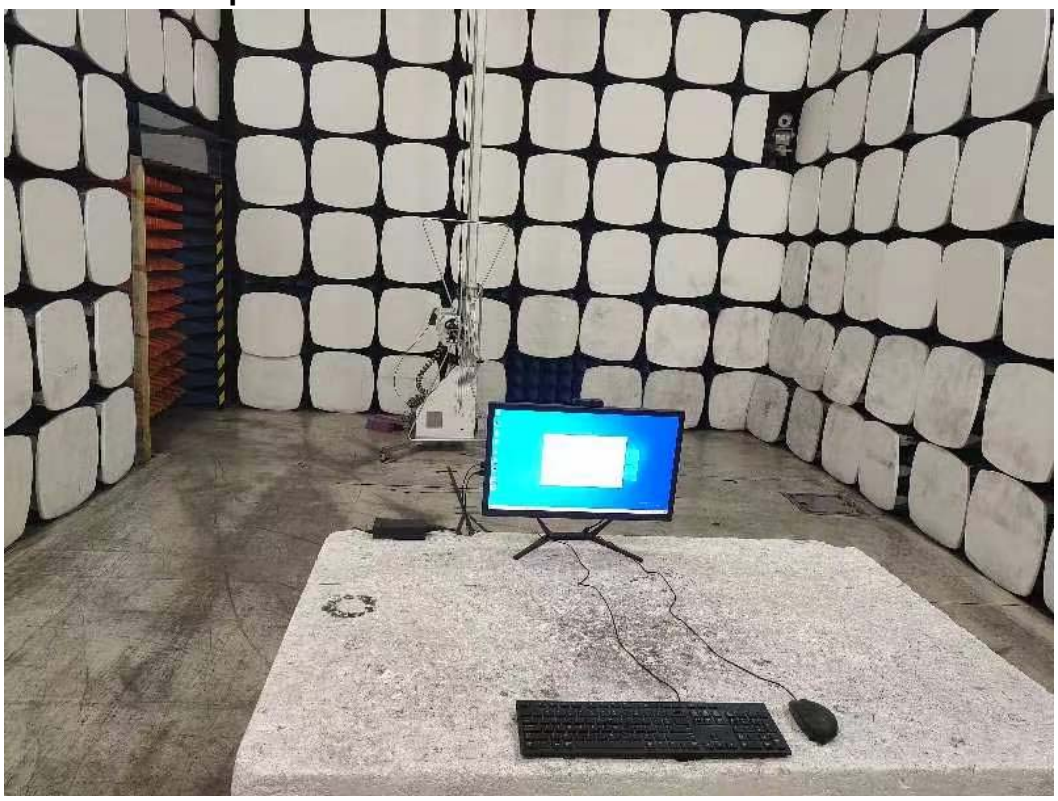
Antenna Photo

5.2 Set-up for Conducted Emission on AC Mains

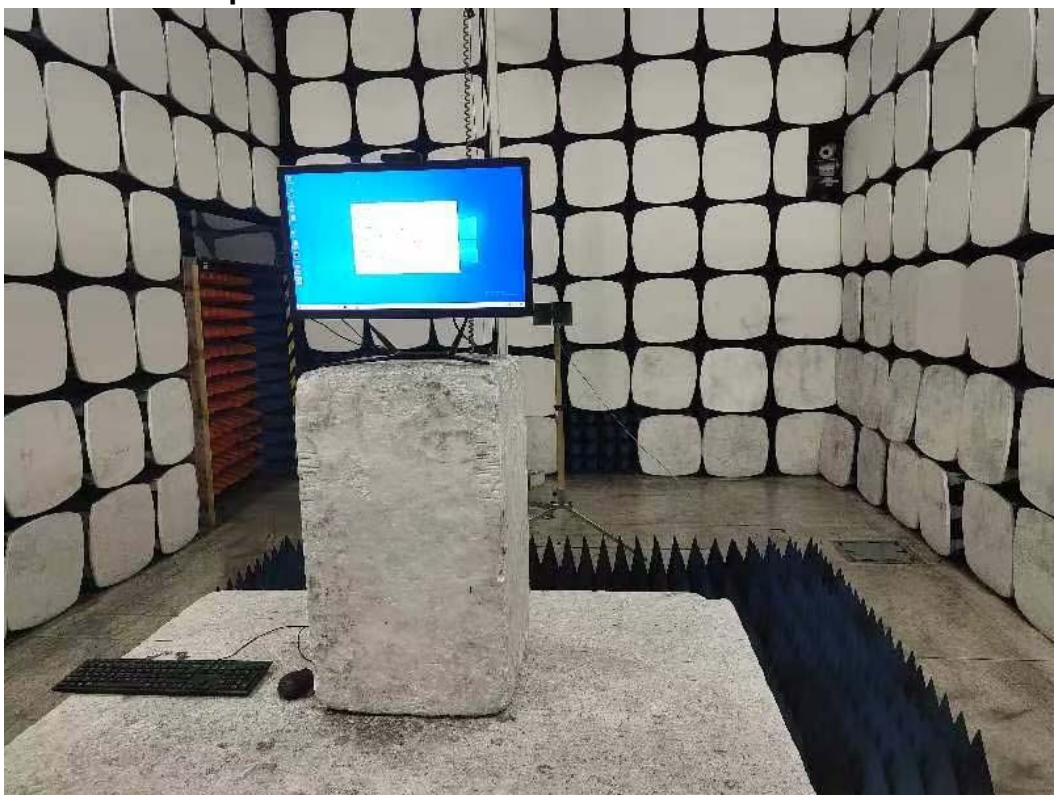
5.3 Set-up for Conducted RF test at Antenna Port



5.4 Set-up for Radiated Spurious Emissions below 1GHz



5.5 Set-up for Radiated Spurious Emissions above 1GHz



End of the report