

5.6.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jul. 04, 2023
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023
Signal Generator	HP	83623B	3614A00396	Feb. 24, 2023
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Broadband Antenna	Schwarzbeck	VULB9163	412	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.6.3. Test Data

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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Note: 1. Emission Level=Reading+ Cable loss+Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Band	GSM 850	Test channel:	Lowest
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		GSM850 CH-L		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2126.308	-36.31	-11.42	-47.73	-13.00	-34.73	peak
2	3347.371	-33.27	-9.90	-43.17	-13.00	-30.17	peak
3	5750.306	-30.94	-7.15	-38.09	-13.00	-25.09	peak
4 *	7292.464	-21.07	-6.02	-27.09	-13.00	-14.09	peak

Channel:		GSM850 CH-L		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2126.308	-16.31	-31.42	-47.73	-13.00	-34.73	peak
2	3347.371	-13.27	-29.90	-43.17	-13.00	-30.17	peak
3	6483.130	-7.46	-26.10	-33.56	-13.00	-20.56	peak
4 *	7292.464	-1.07	-26.02	-27.09	-13.00	-14.09	peak

Band	GSM 850	Test channel:	Middle
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		GSM850 CH-M		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2126.308	-16.31	-31.42	-47.73	-13.00	-34.73	peak
2	4000.868	-8.09	-30.56	-38.65	-13.00	-25.65	peak
3 *	7292.464	-1.07	-26.02	-27.09	-13.00	-14.09	peak
4	11964.719	-7.76	-23.15	-30.91	-13.00	-17.91	peak

Channel:	GSM850 CH-M	Polarization:	Vertical				
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2869.445	-15.19	-30.20	-45.39	-13.00	-32.39	peak
2	4000.868	-8.09	-30.56	-38.65	-13.00	-25.65	peak
3	6384.572	-8.46	-26.21	-34.67	-13.00	-21.67	peak
4 *	8252.775	-6.32	-25.96	-32.28	-13.00	-19.28	peak

Band	GSM 850	Test channel:	Highest
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		GSM850 CH-H		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-33.62	-9.89	-43.51	-13.00	-30.51	peak
2	4000.868	-28.09	-10.56	-38.65	-13.00	-25.65	peak
3 *	6690.633	-24.30	-5.92	-30.22	-13.00	-17.22	peak
4	8252.775	-26.32	-5.96	-32.28	-13.00	-19.28	peak

Channel:		GSM850 CH-H		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-13.62	-29.89	-43.51	-13.00	-30.51	peak
2	4000.868	-8.09	-30.56	-38.65	-13.00	-25.65	peak
3 *	6690.633	-4.30	-25.92	-30.22	-13.00	-17.22	peak
4	11117.793	-8.22	-24.46	-32.68	-13.00	-19.68	peak

Band	PCS 1900	Test channel:	Lowest
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		GSM1900 CH-L		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3347.371	-33.27	-9.90	-43.17	-13.00	-30.17	peak
2	5001.051	-30.31	-8.42	-38.73	-13.00	-25.73	peak
3	6690.633	-24.30	-5.92	-30.22	-13.00	-17.22	peak
4 *	7292.464	-21.07	-6.02	-27.09	-13.00	-14.09	peak

Channel:		GSM1900 CH-L		Polarization:		Vertical		
	No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
	1	3347.371	-13.27	-29.90	-43.17	-13.00	-30.17	peak
	2	5001.051	-10.31	-28.42	-38.73	-13.00	-25.73	peak
	3 *	6690.633	-4.30	-25.92	-30.22	-13.00	-17.22	peak
	4	11117.793	-8.22	-24.46	-32.68	-13.00	-19.68	peak

Band	PCS 1900	Test channel:	Middle
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		GSM1900 CH-M		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2918.798	-34.76	-10.08	-44.84	-13.00	-31.84	peak
2	4000.868	-28.09	-10.56	-38.65	-13.00	-25.65	peak
3 *	6690.633	-24.30	-5.92	-30.22	-13.00	-17.22	peak
4	9596.773	-28.97	-4.50	-33.47	-13.00	-20.47	peak

Channel:		GSM1900 CH-M		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	4000.868	-8.09	-30.56	-38.65	-13.00	-25.65	peak
2	6455.083	-8.38	-26.13	-34.51	-13.00	-21.51	peak
3 *	7292.464	-1.07	-26.02	-27.09	-13.00	-14.09	peak
4	13454.469	-6.23	-21.07	-27.30	-13.00	-14.30	peak

Band	PCS 1900	Test channel:	Highest
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:	GSM1900 CH-H	Polarization:	Horizontal
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No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2847.962	-37.14	-10.25	-47.39	-13.00	-34.39	peak
2	4185.395	-30.69	-10.43	-41.12	-13.00	-28.12	peak
3	6611.813	-26.23	-5.98	-32.21	-13.00	-19.21	peak
4 *	11933.635	-27.48	-3.25	-30.73	-13.00	-17.73	peak

Channel:	GSM1900 CH-H	Polarization:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2844.671	-17.16	-30.26	-47.42	-13.00	-34.42	peak
2	3504.796	-13.09	-29.90	-42.99	-13.00	-29.99	peak
3	5750.306	-12.48	-27.15	-39.63	-13.00	-26.63	peak
4 *	12347.669	-7.70	-22.87	-30.57	-13.00	-17.57	peak

Band	WCDMA Band V	Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 5 CH-L		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3000.054	-34.09	-9.89	-43.98	-13.00	-30.98	peak
2	4999.605	-28.33	-8.42	-36.75	-13.00	-23.75	peak
3 *	6692.567	-23.50	-5.91	-29.41	-13.00	-16.41	peak
4	9120.789	-28.89	-5.14	-34.03	-13.00	-21.03	peak

Channel:		WCDMA Band 5 CH-L		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
2	5823.903	-12.83	-27.01	-39.84	-13.00	-26.84	peak
3 *	6692.567	-3.50	-25.91	-29.41	-13.00	-16.41	peak
4	11377.865	-7.12	-24.58	-31.70	-13.00	-18.70	peak

Band	WCDMA Band V	Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 5 CH-M		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
2	4684.811	-14.93	-29.53	-44.46	-13.00	-31.46	peak
3	6429.015	-8.26	-26.16	-34.42	-13.00	-21.42	peak
4 *	12629.207	-6.42	-22.59	-29.01	-13.00	-16.01	peak

Channel:		WCDMA Band 5 CH-M		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
2	4000.868	-12.44	-30.56	-43.00	-13.00	-30.00	peak
3 *	6692.567	-3.50	-25.91	-29.41	-13.00	-16.41	peak
4	11620.485	-7.28	-24.26	-31.54	-13.00	-18.54	peak

Band	WCDMA Band V	Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:	WCDMA Band 5 CH-H	Polarization:	Horizontal
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No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3000.054	-14.09	-29.89	-43.98	-13.00	-30.98	peak
2	6081.955	-12.30	-26.58	-38.88	-13.00	-25.88	peak
3	8460.486	-9.05	-25.82	-34.87	-13.00	-21.87	peak
4 *	14839.535	-5.26	-21.00	-26.26	-13.00	-13.26	peak

Channel:	WCDMA Band 5 CH-H	Polarization:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3499.735	-12.78	-29.90	-42.68	-13.00	-29.68	peak
2	4999.605	-8.33	-28.42	-36.75	-13.00	-23.75	peak
3	6429.015	-8.26	-26.16	-34.42	-13.00	-21.42	peak
4 *	13454.469	-6.77	-21.07	-27.84	-13.00	-14.84	peak

Band	WCDMA Band II	Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 2 CH-L		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2116.497	-36.64	-11.43	-48.07	-13.00	-35.07	peak
2	3399.045	-34.57	-9.90	-44.47	-13.00	-31.47	peak
3	6607.992	-28.73	-5.99	-34.72	-13.00	-21.72	peak
4 *	13470.033	-27.06	-1.04	-28.10	-13.00	-15.10	peak

Channel:		WCDMA Band 2 CH-L		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2917.954	-15.16	-30.08	-45.24	-13.00	-32.24	peak
2	6434.592	-11.37	-26.15	-37.52	-13.00	-24.52	peak
3	10247.546	-8.92	-25.02	-33.94	-13.00	-20.94	peak
4 *	15025.121	-6.02	-20.62	-26.64	-13.00	-13.64	peak

Band	WCDMA Band II	Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 2 CH-M		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2112.830	-36.61	-11.43	-48.04	-13.00	-35.04	peak
2	3483.587	-33.88	-9.90	-43.78	-13.00	-30.78	peak
3	6606.083	-28.11	-5.99	-34.10	-13.00	-21.10	peak
4 *	13470.033	-27.06	-1.04	-28.10	-13.00	-15.10	peak

Channel:		WCDMA Band 2 CH-M		Polarization:		Vertical		
	No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
	1	3496.701	-14.40	-29.90	-44.30	-13.00	-31.30	peak
	2	6688.699	-10.91	-25.92	-36.83	-13.00	-23.83	peak
	3	10794.805	-8.13	-24.83	-32.96	-13.00	-19.96	peak
	4 *	14350.239	-5.33	-21.97	-27.30	-13.00	-14.30	peak

Band	WCDMA Band II	Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 2 CH-H		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-32.57	-9.89	-42.46	-13.00	-29.46	peak
2	4999.605	-28.33	-8.42	-36.75	-13.00	-23.75	peak
3 *	7298.791	-19.58	-6.03	-25.61	-13.00	-12.61	peak
4	13454.469	-26.77	-1.07	-27.84	-13.00	-14.84	peak

Channel:		WCDMA Band 2 CH-H		Polarization:		Vertical		
	No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
	1	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
	2	4999.605	-8.33	-28.42	-36.75	-13.00	-23.75	peak
	3 *	7298.791	0.42	-26.03	-25.61	-13.00	-12.61	peak
	4	15003.422	-5.59	-20.53	-26.12	-13.00	-13.12	peak

Band	WCDMA Band IV	Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 4 CH-L		Polarization:		Horizontal		
	No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
	1	3124.845	-32.57	-9.89	-42.46	-13.00	-29.46	peak
	2	3751.126	-32.24	-10.23	-42.47	-13.00	-29.47	peak
	3 *	6932.774	-22.28	-5.71	-27.99	-13.00	-14.99	peak
	4	12354.809	-26.63	-2.87	-29.50	-13.00	-16.50	peak

Channel:		WCDMA Band 4 CH-L		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2136.781	-16.01	-31.42	-47.43	-13.00	-34.43	peak
2	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
3	6932.774	-2.28	-25.71	-27.99	-13.00	-14.99	peak
4 *	13454.469	-6.77	-21.07	-27.84	-13.00	-14.84	peak

Band	WCDMA Band IV	Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:		WCDMA Band 4 CH-M		Polarization:		Horizontal	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-32.57	-9.89	-42.46	-13.00	-29.46	peak
2	6692.567	-23.50	-5.91	-29.41	-13.00	-16.41	peak
3	10794.805	-28.13	-4.83	-32.96	-13.00	-19.96	peak
4 *	15003.422	-25.59	-0.53	-26.12	-13.00	-13.12	peak

Channel:		WCDMA Band 4 CH-M		Polarization:		Vertical	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
2	3751.126	-12.24	-30.23	-42.47	-13.00	-29.47	peak
3	4999.605	-8.33	-28.42	-36.75	-13.00	-23.75	peak
4 *	6932.774	-2.28	-25.71	-27.99	-13.00	-14.99	peak

Band	WCDMA Band IV	Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)	Temperature :	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Channel:	WCDMA Band 4 CH-H	Polarization:	Horizontal
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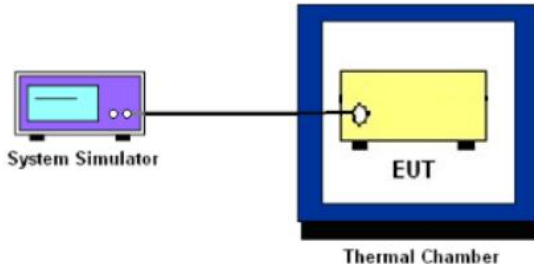
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-32.57	-9.89	-42.46	-13.00	-29.46	peak
2	3751.126	-32.24	-10.23	-42.47	-13.00	-29.47	peak
3 *	6692.567	-23.50	-5.91	-29.41	-13.00	-16.41	peak
4	10794.805	-28.13	-4.83	-32.96	-13.00	-19.96	peak

Channel:	WCDMA Band 4 CH-H	Polarization:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3124.845	-12.57	-29.89	-42.46	-13.00	-29.46	peak
2	4000.868	-12.44	-30.56	-43.00	-13.00	-30.00	peak
3	8460.486	-9.05	-25.82	-34.87	-13.00	-21.87	peak
4 *	14325.374	-4.73	-21.96	-26.69	-13.00	-13.69	peak

5.7. Frequency Stability Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part 2.1055 ; FCC Part 22.355 ; FCC Part 24.235 FCC Part 27.54
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	FCC Part 22.355 : ± 2.5 ppm FCC Part 24.235 : The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.
Test Setup:	 <p>The diagram shows a purple box labeled 'System Simulator' connected by a black line to a yellow box labeled 'EUT'. The 'EUT' box is positioned inside a blue square frame labeled 'Thermal Chamber'.</p>
Test Procedure:	<p>Test Procedures for Temperature Variation</p> <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0. 2. The EUT was set up in the thermal chamber and connected with the system simulator. 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute. 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute. <p>Test Procedures for Voltage Variation</p> <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0. 2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator. 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. 4. The variation in frequency was measured for the worst case.
Test Result:	PASS
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

5.7.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jul. 04, 2023
Programable tempratuce and humidity chamber	JQ	JQ-2000	/	Jul. 04, 2023
DC power supply	Kingrang	KR3005K	/	Jul. 04, 2023
Combiner Box	AT890-RFB	Ascentest	/	/

5.7.3. Test Data

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	836.6	20	3.30	-6.715	-0.0080	-2.5 to 2.5	Pass
			3.70	-1.647	-0.0020	-2.5 to 2.5	Pass
			4.00	-4.133	-0.0049	-2.5 to 2.5	Pass
		-30	3.70	1.647	0.0020	-2.5 to 2.5	Pass
		-20	3.70	-0.549	-0.0007	-2.5 to 2.5	Pass
		-10	3.70	-0.839	-0.0010	-2.5 to 2.5	Pass
		0	3.70	1.453	0.0017	-2.5 to 2.5	Pass
		10	3.70	-2.421	-0.0029	-2.5 to 2.5	Pass
		30	3.70	0.226	0.0003	-2.5 to 2.5	Pass
		40	3.70	0.291	0.0003	-2.5 to 2.5	Pass
		50	3.70	0.807	0.0010	-2.5 to 2.5	Pass

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1880	20	3.30	10.396	0.0055	-2.5 to 2.5	Pass
			3.70	9.331	0.0050	-2.5 to 2.5	Pass
			4.00	12.753	0.0068	-2.5 to 2.5	Pass
		-30	3.70	2.551	0.0014	-2.5 to 2.5	Pass
		-20	3.70	4.972	0.0026	-2.5 to 2.5	Pass
		-10	3.70	4.746	0.0025	-2.5 to 2.5	Pass
		0	3.70	7.264	0.0039	-2.5 to 2.5	Pass
		10	3.70	17.596	0.0094	-2.5 to 2.5	Pass
		30	3.70	24.957	0.0133	-2.5 to 2.5	Pass
		40	3.70	18.338	0.0098	-2.5 to 2.5	Pass
		50	3.70	15.529	0.0083	-2.5 to 2.5	Pass

WCDMA Band: V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	836.6	20	3.70	0.393	0.0005	-2.5 to 2.5	Pass
			3.70	3.226	0.0039	-2.5 to 2.5	Pass
			4.00	1.223	0.0015	-2.5 to 2.5	Pass
		-30	3.70	2.611	0.0031	-2.5 to 2.5	Pass
		-20	3.70	1.087	0.0013	-2.5 to 2.5	Pass
		-10	3.70	2.561	0.0031	-2.5 to 2.5	Pass
		0	3.70	1.903	0.0023	-2.5 to 2.5	Pass
		10	3.70	1.216	0.0015	-2.5 to 2.5	Pass
		30	3.70	2.625	0.0031	-2.5 to 2.5	Pass
		40	3.70	-0.422	-0.0005	-2.5 to 2.5	Pass
		50	3.70	2.811	0.0034	-2.5 to 2.5	Pass

WCDMA Band: II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1880	20	3.30	4.835	0.0026	-2.5 to 2.5	Pass
			3.70	3.862	0.0021	-2.5 to 2.5	Pass
			4.00	6.616	0.0035	-2.5 to 2.5	Pass
		-30	3.70	5.093	0.0027	-2.5 to 2.5	Pass
		-20	3.70	6.838	0.0036	-2.5 to 2.5	Pass
		-10	3.70	5.372	0.0029	-2.5 to 2.5	Pass
		0	3.70	6.523	0.0035	-2.5 to 2.5	Pass
		10	3.70	4.857	0.0026	-2.5 to 2.5	Pass
		30	3.70	6.917	0.0037	-2.5 to 2.5	Pass
		40	3.70	5.057	0.0027	-2.5 to 2.5	Pass
		50	3.70	8.440	0.0045	-2.5 to 2.5	Pass

WCDMA Band: IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1732.6	20	3.30	3.684	0.0021	-2.5 to 2.5	Pass
			3.70	3.612	0.0021	-2.5 to 2.5	Pass
			4.00	5.250	0.0030	-2.5 to 2.5	Pass
		-30	3.70	2.289	0.0013	-2.5 to 2.5	Pass
		-20	3.70	4.914	0.0028	-2.5 to 2.5	Pass
		-10	3.70	1.917	0.0011	-2.5 to 2.5	Pass
		0	3.70	3.626	0.0021	-2.5 to 2.5	Pass
		10	3.70	1.230	0.0007	-2.5 to 2.5	Pass
		30	3.70	3.741	0.0022	-2.5 to 2.5	Pass
		40	3.70	1.767	0.0010	-2.5 to 2.5	Pass
		50	3.70	3.726	0.0022	-2.5 to 2.5	Pass

Note:

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.3V.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

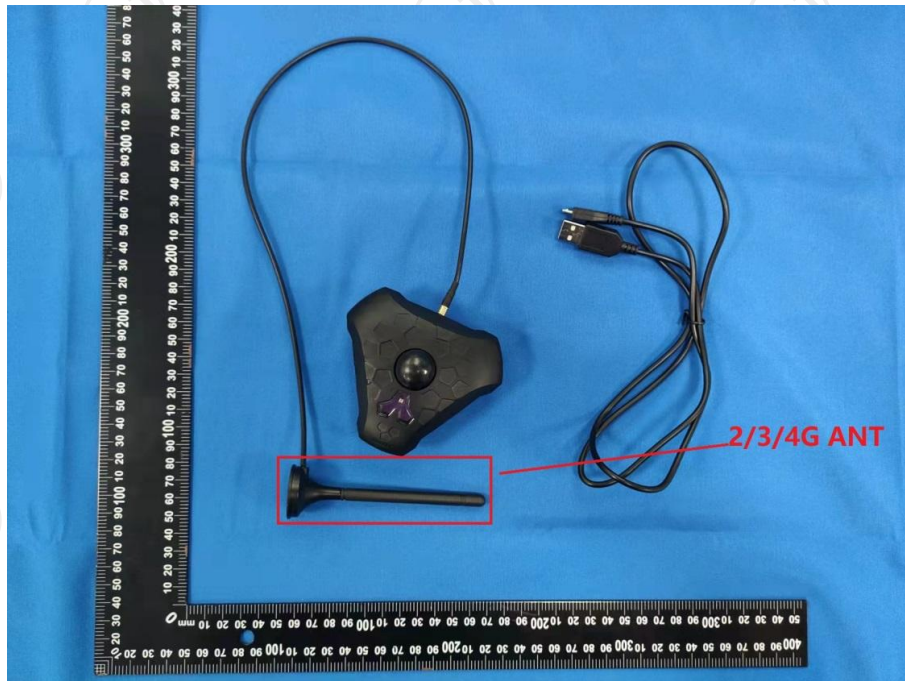
Appendix A: Photographs of Test Setup

Radiated Emission

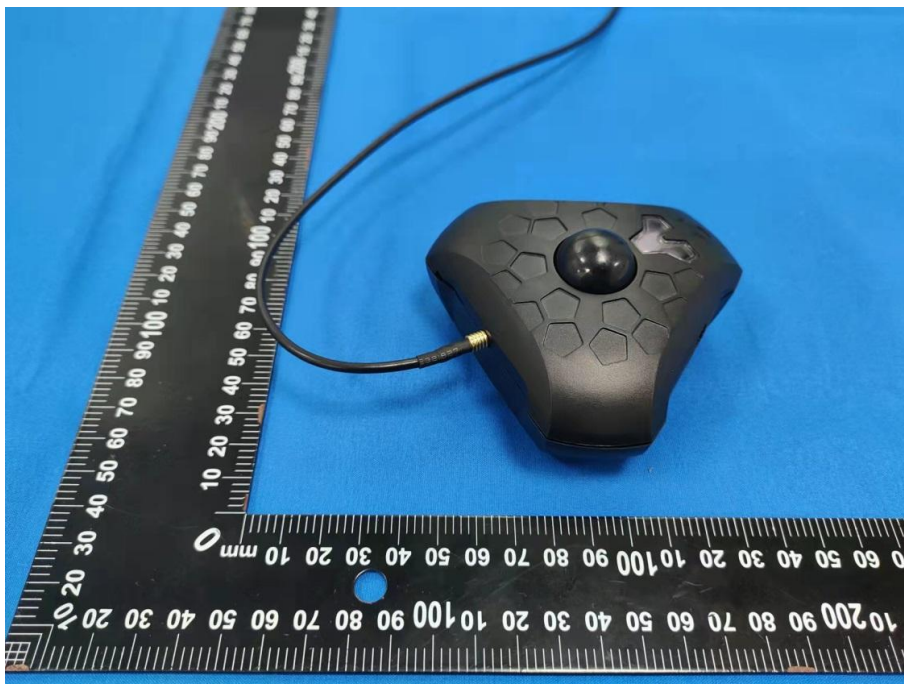
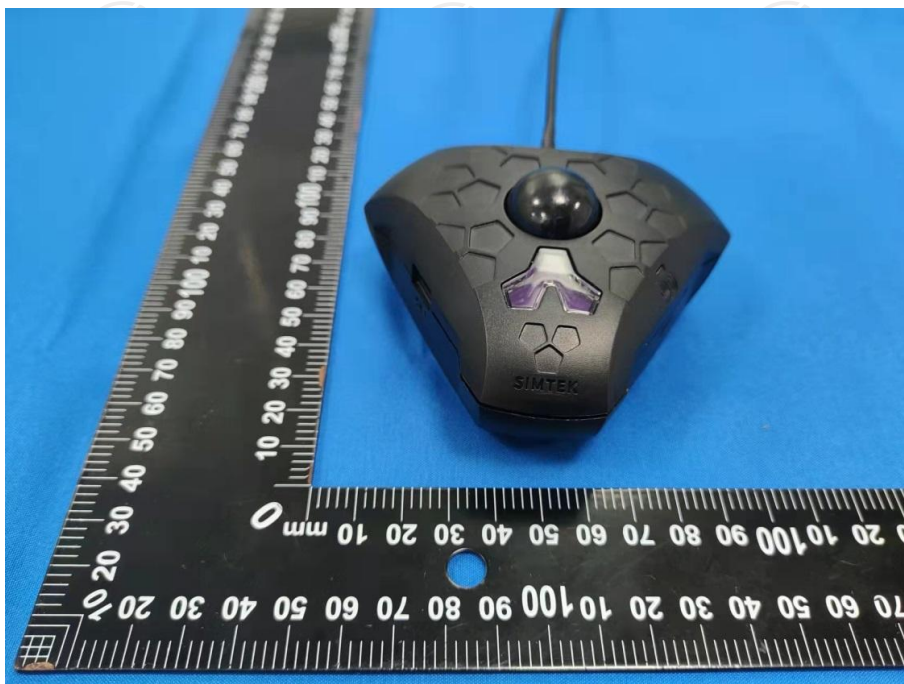


Appendix B: Photographs of EUT

External Photos

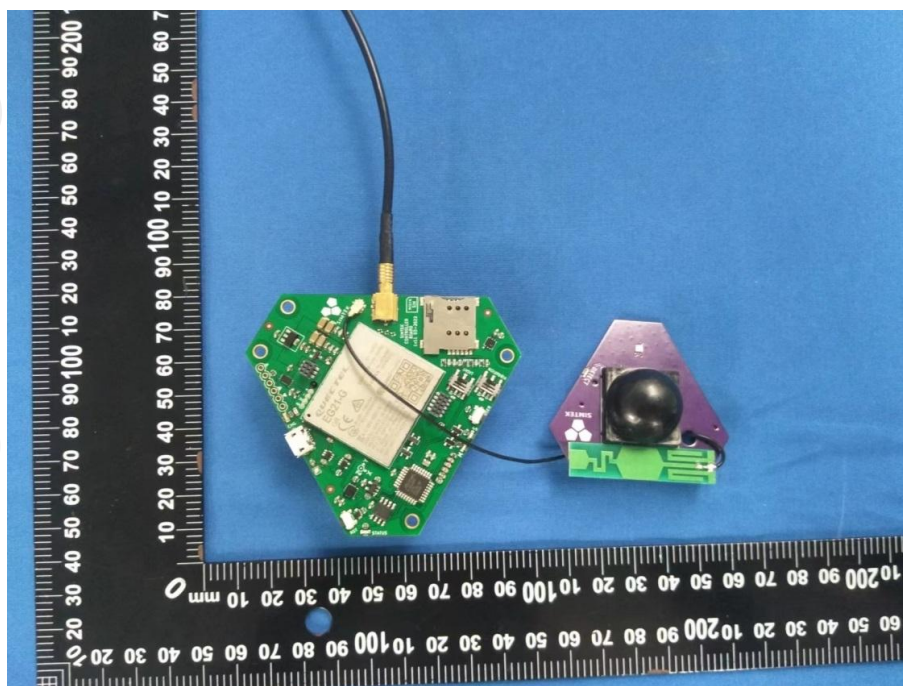
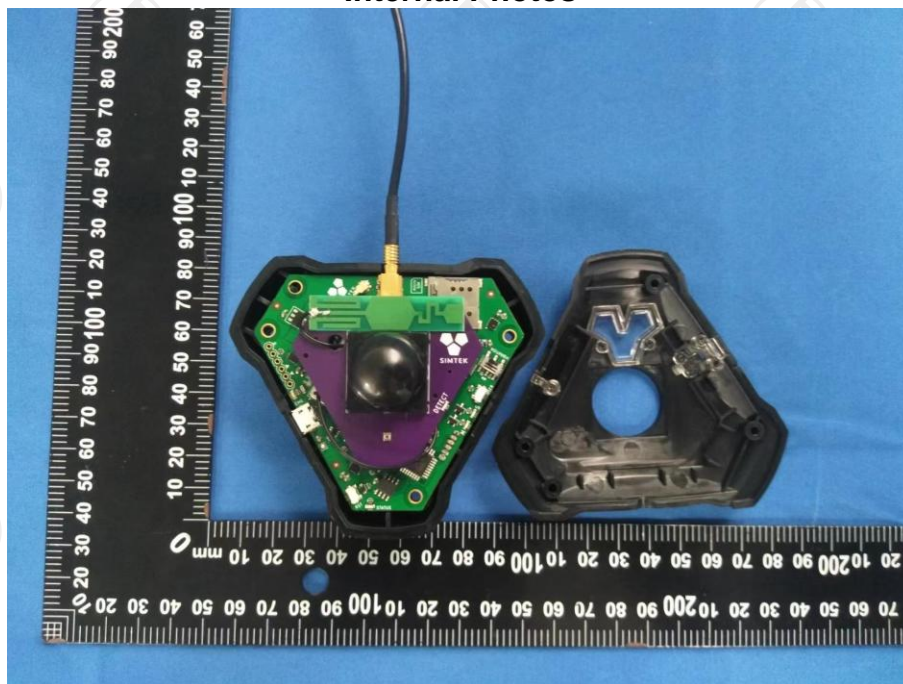


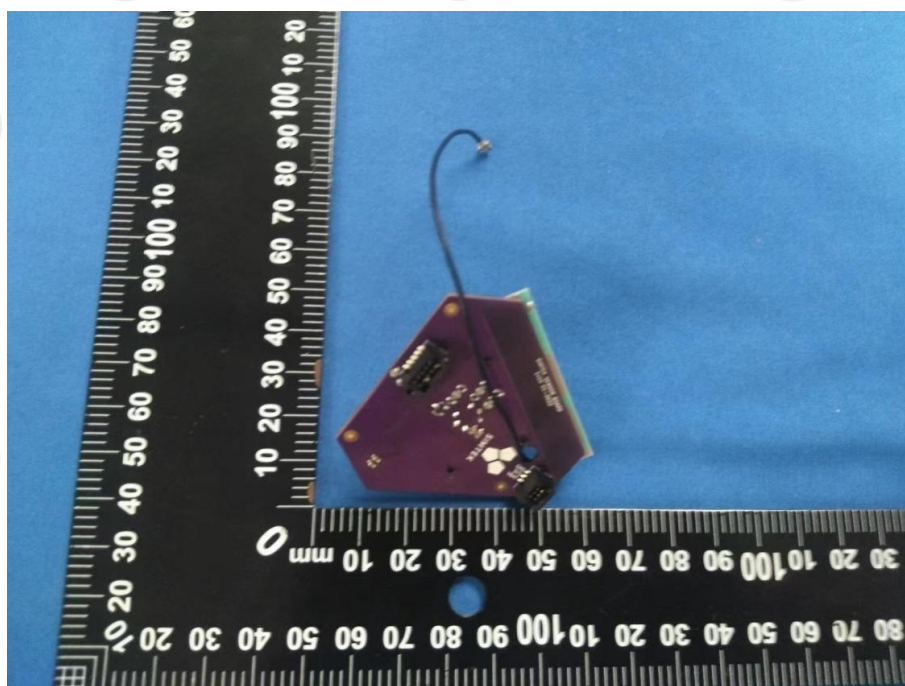
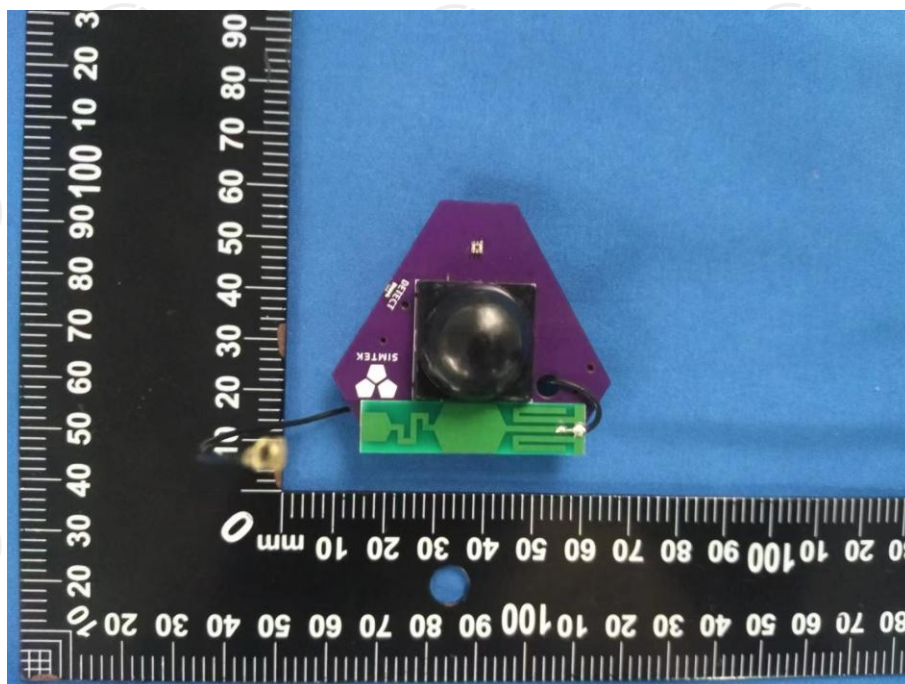


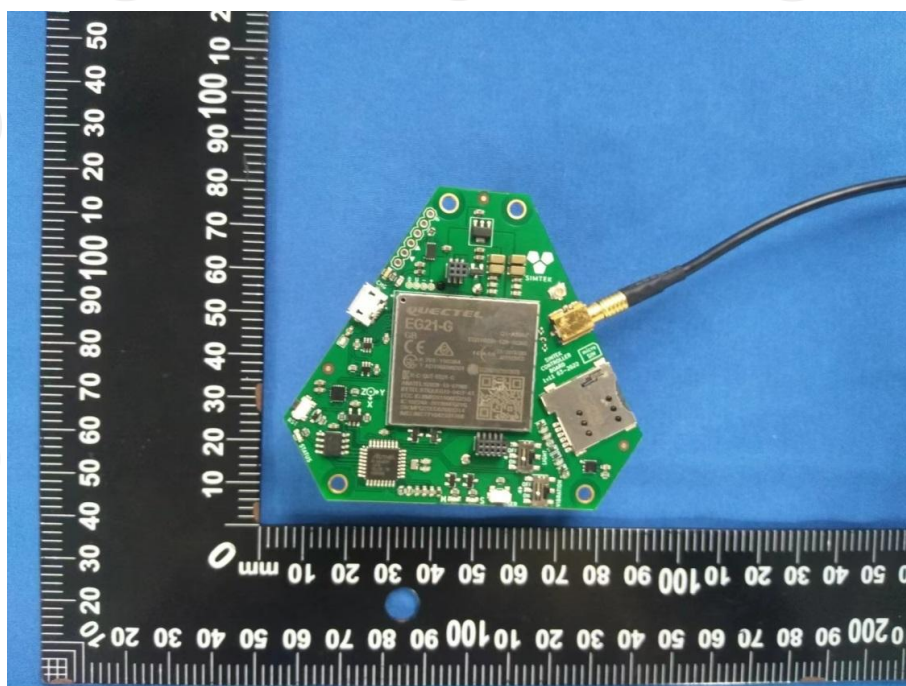
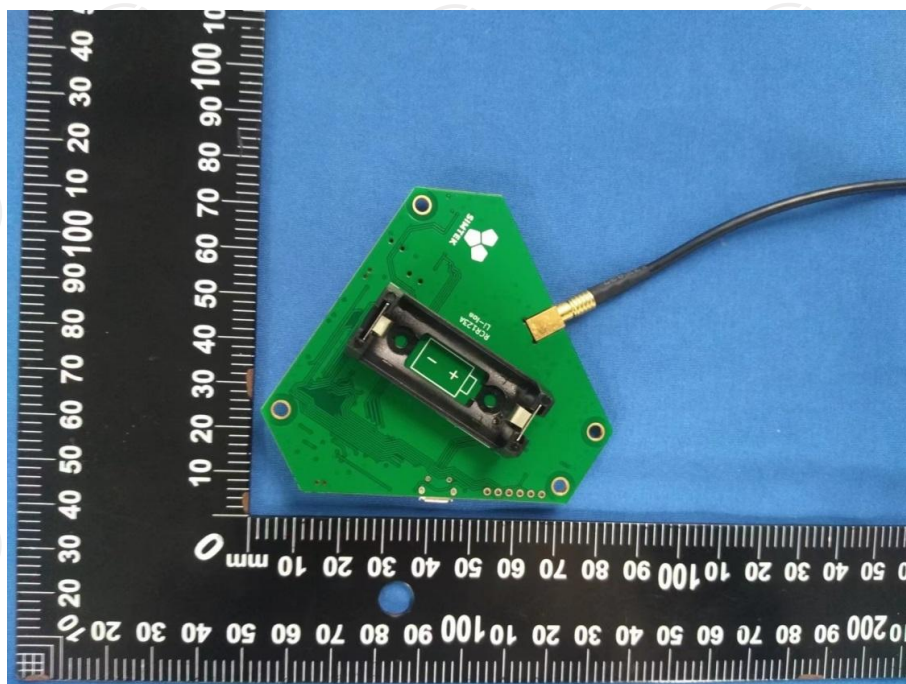


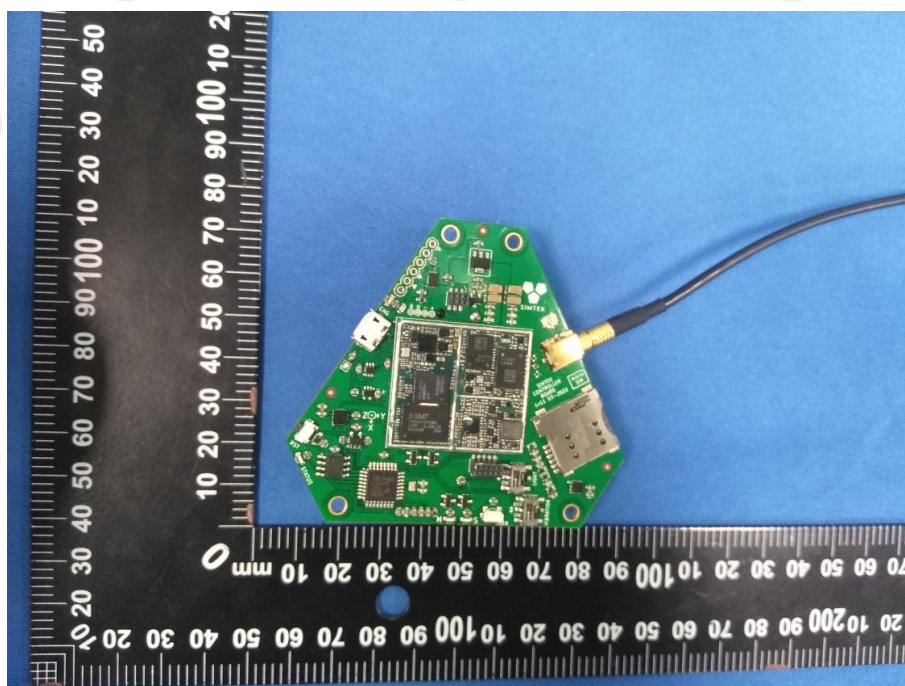
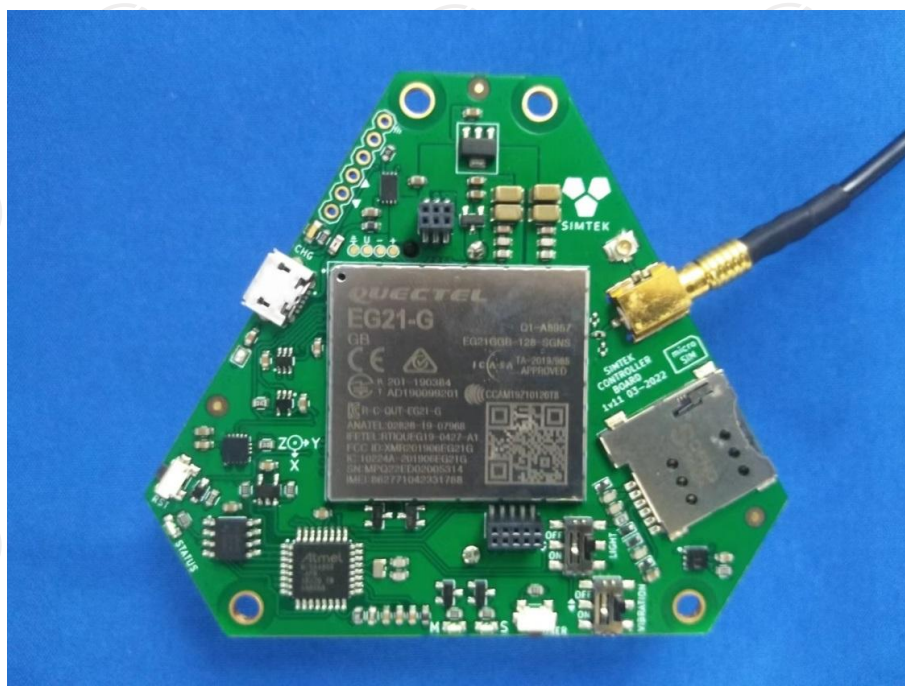


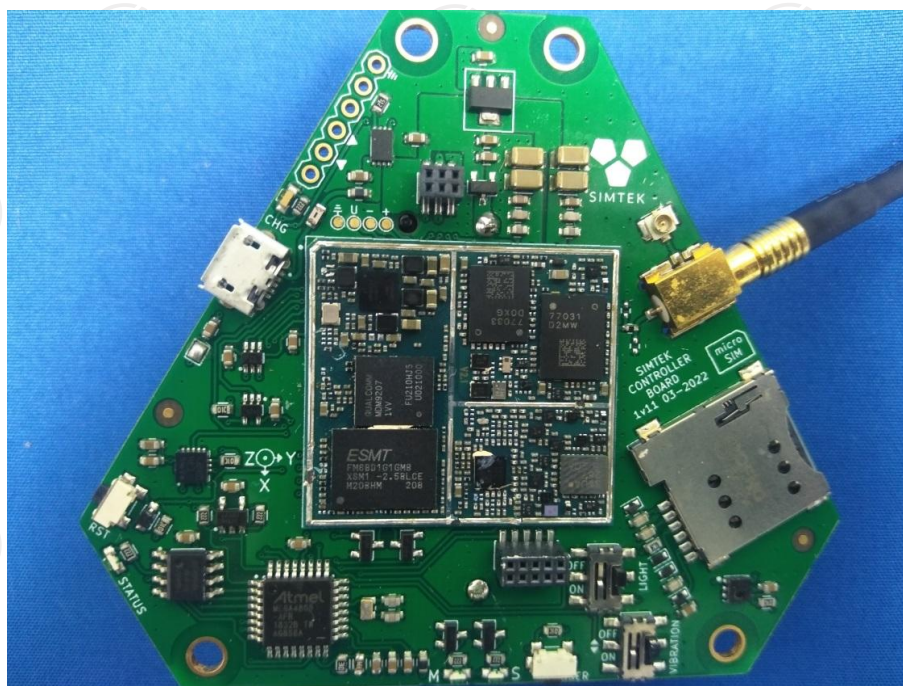
Internal Photos











*******END OF REPORT*******