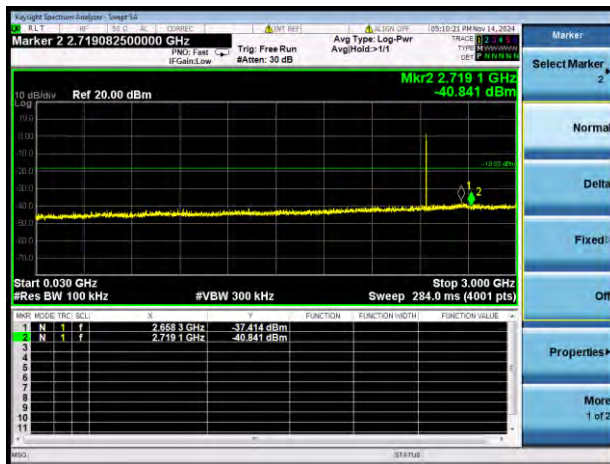
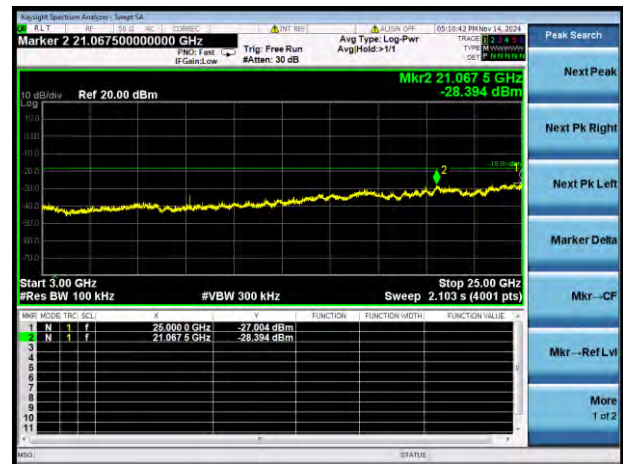


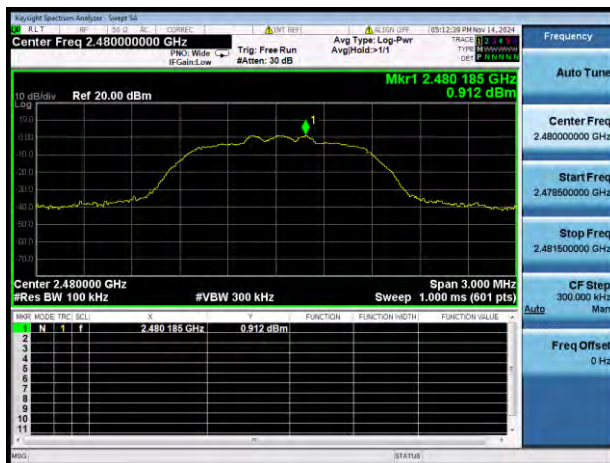
$\pi/4$ -DQPSK MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



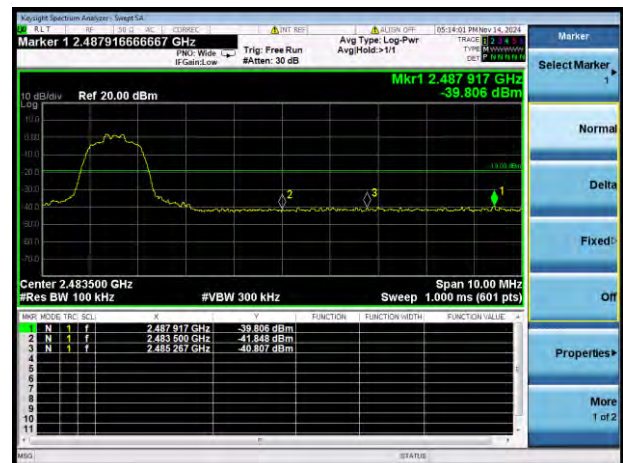
$\pi/4$ -DQPSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



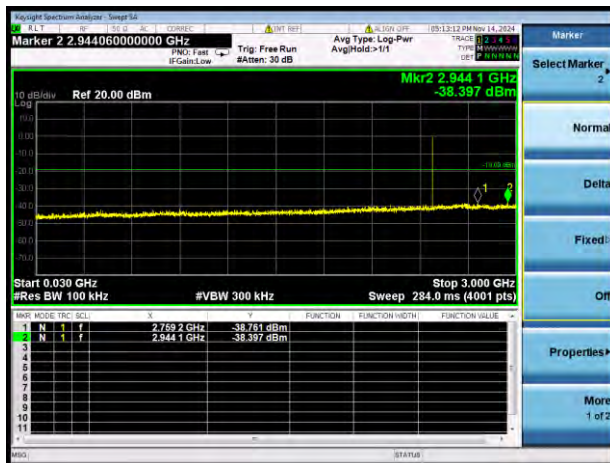
$\pi/4$ -DQPSK HIGH CHANNEL, CARRIER LEVEL



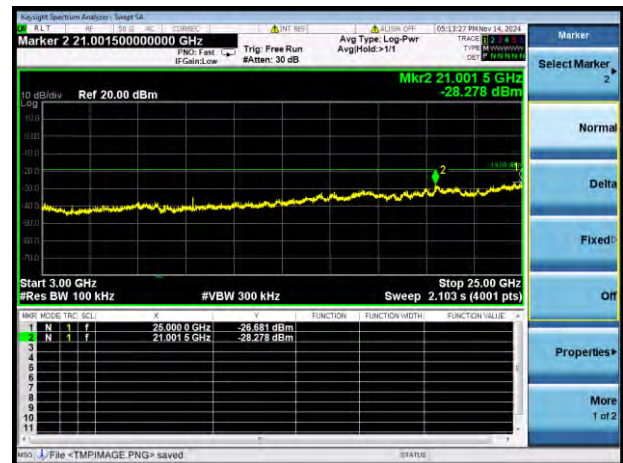
$\pi/4$ -DQPSK HIGH CHANNEL, BAND EDGE



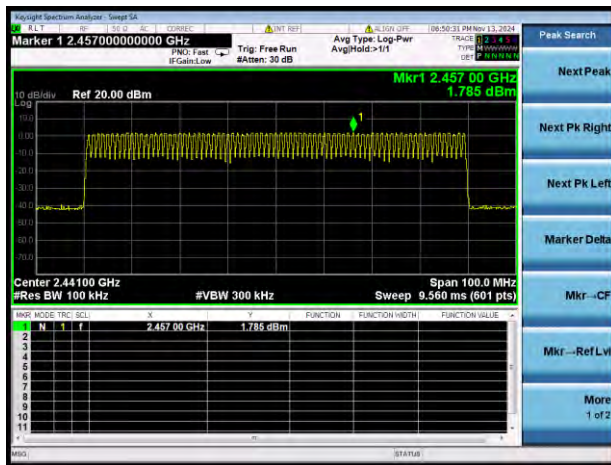
$\pi/4$ -DQPSK HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



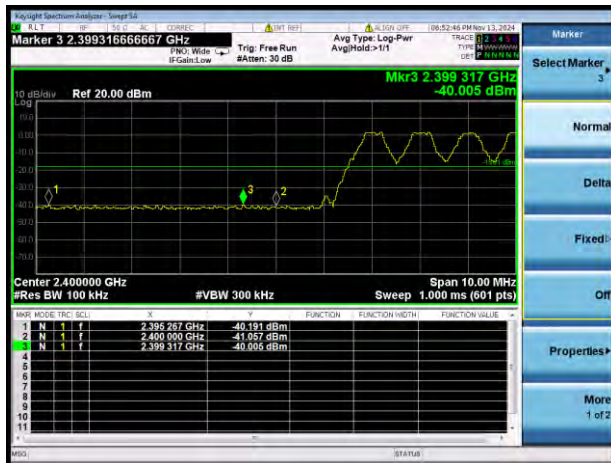
$\pi/4$ -DQPSK HIGH CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



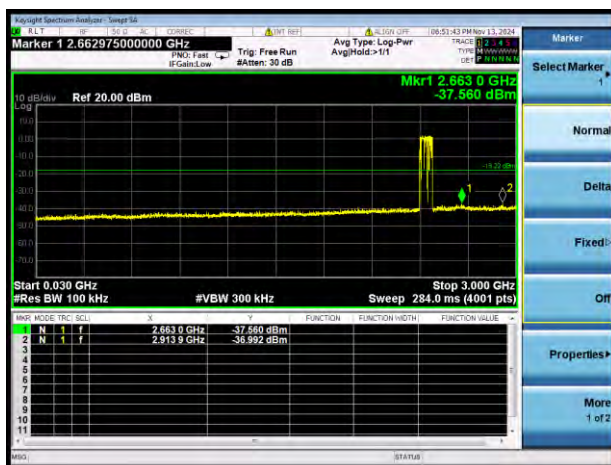
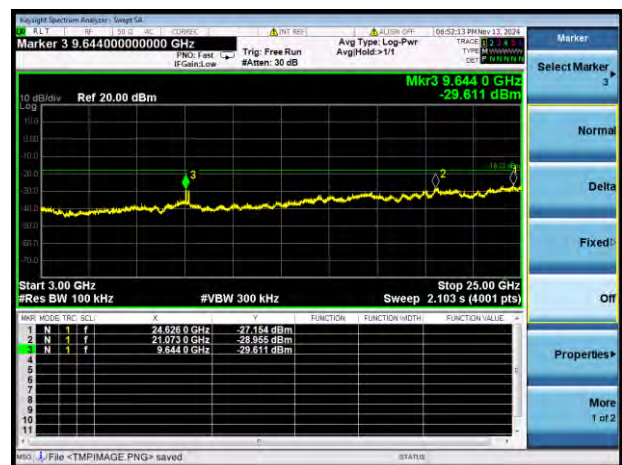
GFSK HOPPING, CARRIER LEVEL

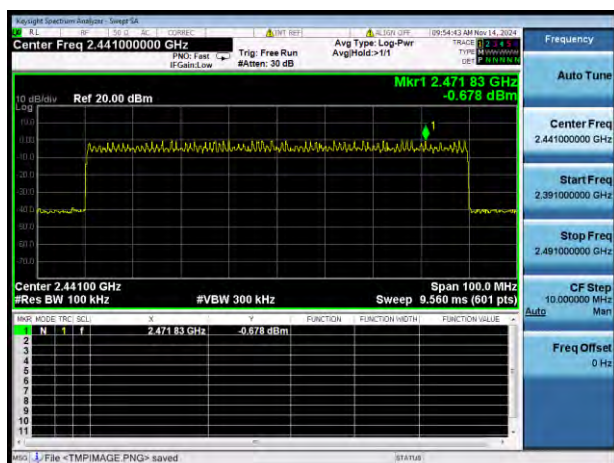
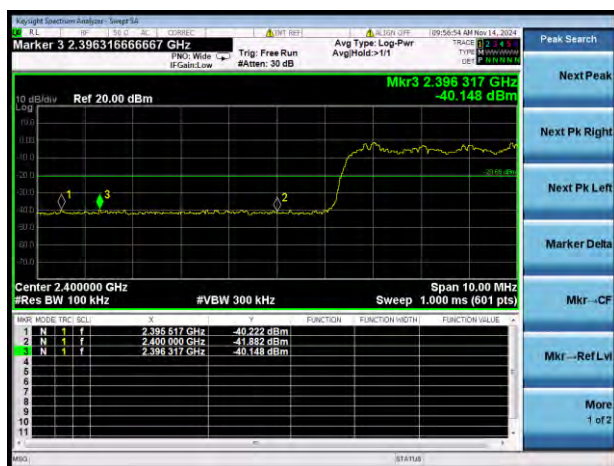
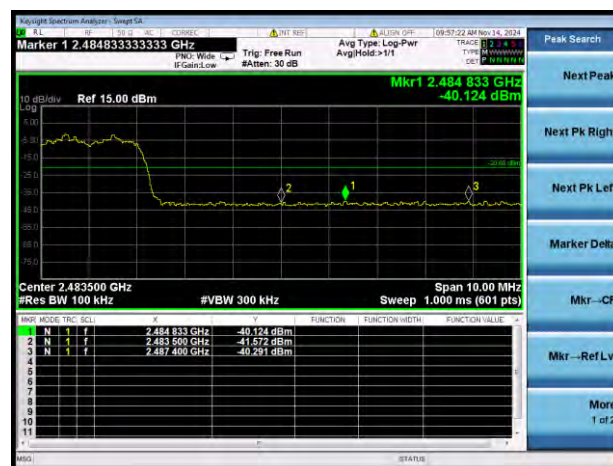
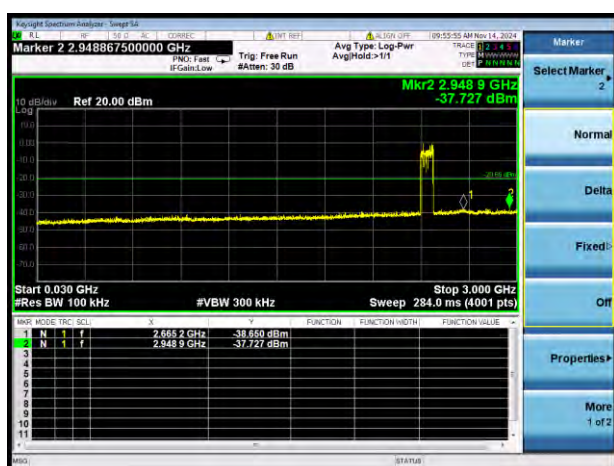


GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHzGFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

$\pi/4$ -DQPSK HOPPING, CARRIER LEVEL $\pi/4$ -DQPSK Hopping BAND EDGE (LOW) $\pi/4$ -DQPSK Hopping BAND EDGE (HIGH) $\pi/4$ -DQPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz $\pi/4$ -DQPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

5.9 Conducted Emission

5.9.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.9.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX A.

5.9.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Note ¹: The EUT was tested in charging mode.

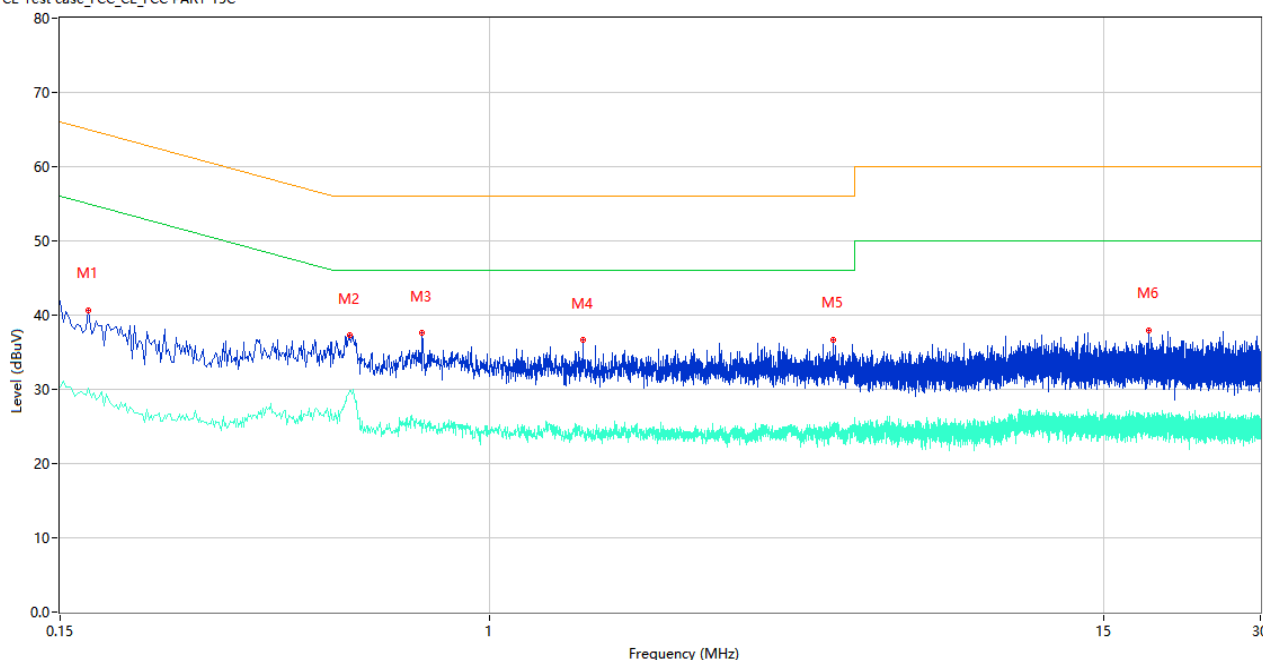
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

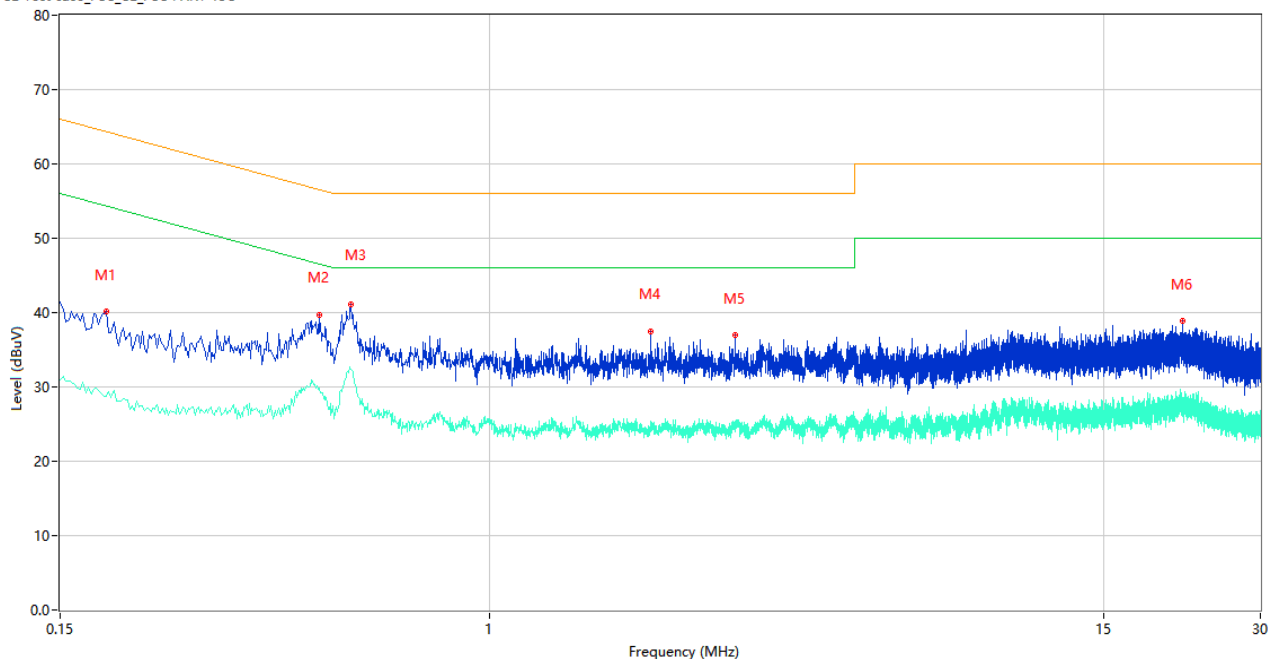
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	40.60	9.78	64.96	24.36	Peak	L	Pass
1**	0.170	30.18	9.78	54.96	24.78	AV	L	Pass
2	0.538	37.26	10.02	56.00	18.74	Peak	L	Pass
2**	0.538	29.73	10.02	46.00	16.27	AV	L	Pass
3	0.742	37.62	10.25	56.00	18.38	Peak	L	Pass
3**	0.742	25.42	10.25	46.00	20.58	AV	L	Pass
4	1.508	36.62	10.25	56.00	19.38	Peak	L	Pass
4**	1.508	24.28	10.25	46.00	21.72	AV	L	Pass
5	4.558	36.69	10.45	56.00	19.31	Peak	L	Pass
5**	4.558	24.62	10.45	46.00	21.38	AV	L	Pass
6	18.328	37.93	10.75	60.00	22.07	Peak	L	Pass
6**	18.328	26.46	10.75	50.00	23.54	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.184	40.16	9.78	64.30	24.14	Peak	N	Pass
1**	0.184	28.67	9.78	54.30	25.63	AV	N	Pass
2	0.470	39.72	10.01	56.51	16.79	Peak	N	Pass
2**	0.470	29.87	10.01	46.51	16.64	AV	N	Pass
3	0.542	41.05	10.02	56.00	14.95	Peak	N	Pass
3**	0.542	32.30	10.02	46.00	13.70	AV	N	Pass
4	2.038	37.48	10.44	56.00	18.52	Peak	N	Pass
4**	2.038	24.32	10.44	46.00	21.68	AV	N	Pass
5	2.958	36.94	10.21	56.00	19.06	Peak	N	Pass
5**	2.958	24.07	10.21	46.00	21.93	AV	N	Pass
6	21.260	38.81	11.11	60.00	21.19	Peak	N	Pass
6**	21.260	28.56	11.11	50.00	21.44	AV	N	Pass

5.10 Radiated Spurious Emission

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.10.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Note ¹: The symbol of "--" in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The EUT was tested in Link mode and the charging.

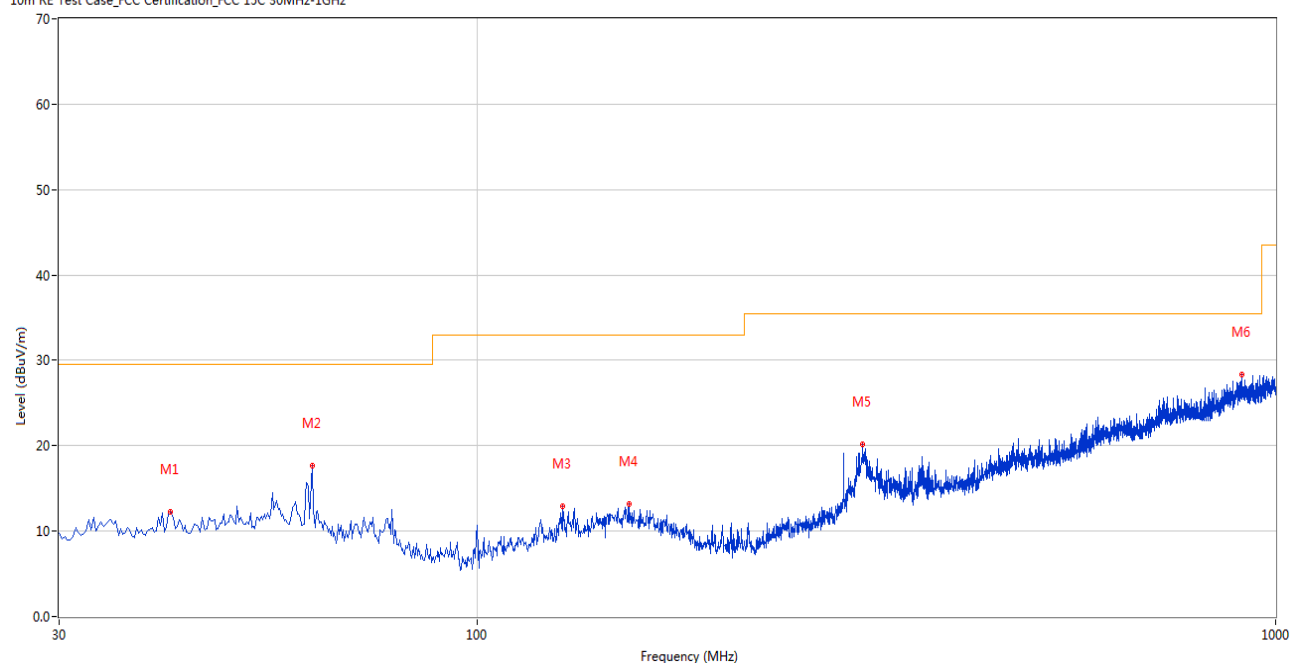
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Test Data and Plots

30 MHz to 1 GHz, ANT H

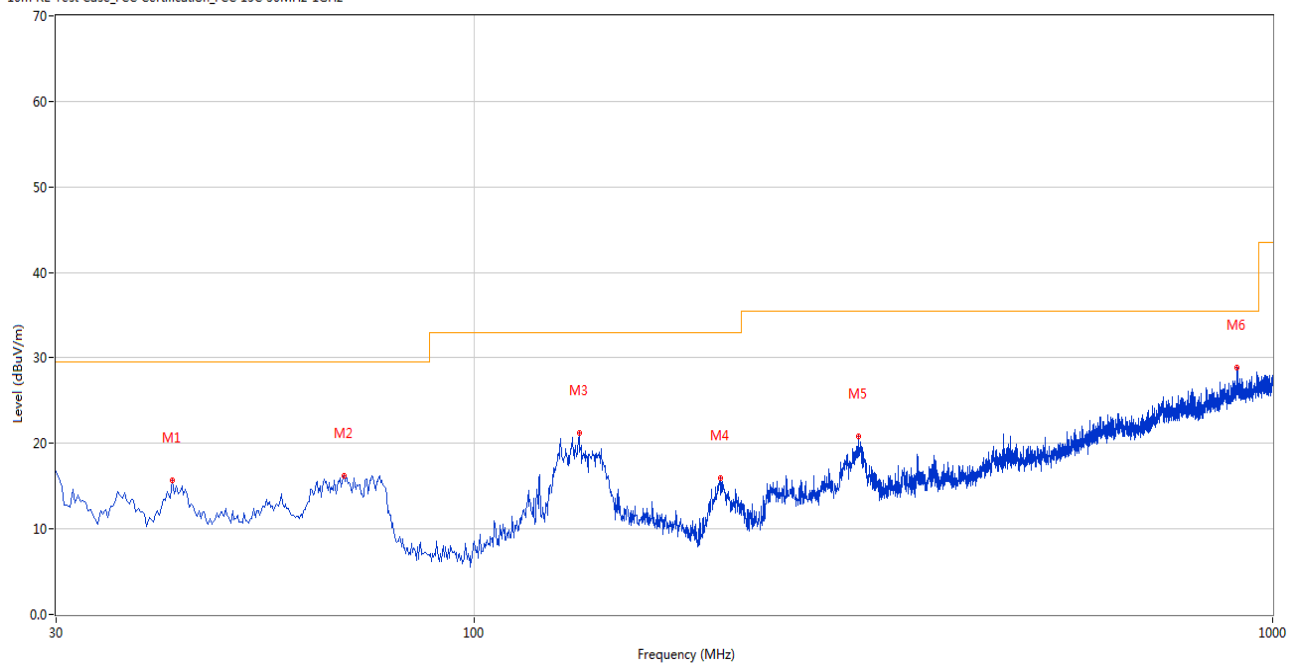
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.395	12.27	-26.42	29.5	17.23	Peak	109.00	200	Horizontal	Pass
2	62.244	17.66	-26.92	29.5	11.84	Peak	360.00	100	Horizontal	Pass
3	127.946	12.95	-27.27	33.0	20.05	Peak	0.00	200	Horizontal	Pass
4	155.341	13.15	-25.40	33.0	19.85	Peak	301.00	200	Horizontal	Pass
5	304.199	20.16	-24.88	35.5	15.34	Peak	270.00	200	Horizontal	Pass
6	908.115	28.33	-10.80	35.5	7.17	Peak	248.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.880	15.71	-26.40	29.5	13.79	Peak	134.00	200	Vertical	Pass
2	68.790	16.21	-28.08	29.5	13.29	Peak	102.00	100	Vertical	Pass
3	135.461	21.28	-26.57	33.0	11.72	Peak	267.00	100	Vertical	Pass
4	203.344	15.90	-28.99	33.0	17.10	Peak	319.00	100	Vertical	Pass
5	302.987	20.88	-24.87	35.5	14.62	Peak	55.00	100	Vertical	Pass
6	903.267	28.93	-10.41	35.5	6.57	Peak	223.00	100	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1556.800	43.00	74.0	31.00	Peak	118.00	200	Horizontal	Pass
1**	1556.800	32.89	54.0	21.11	AV	118.00	200	Horizontal	Pass
2	2402.200	91.38	74.0	-17.38	Peak	314.00	150	Horizontal	N/A
2**	2402.200	91.17	54.0	-37.17	AV	314.00	150	Horizontal	N/A
3	2594.300	55.69	74.0	18.31	Peak	90.00	100	Horizontal	Pass
3**	2594.300	52.98	54.0	1.02	AV	90.00	100	Horizontal	N/A
4	4804.400	50.79	74.0	23.21	Peak	212.00	150	Horizontal	Pass
4**	4804.400	45.76	54.0	8.24	AV	212.00	150	Horizontal	Pass
5	7206.425	50.69	74.0	23.31	Peak	350.00	150	Horizontal	Pass
5**	7206.425	44.98	54.0	9.02	AV	350.00	150	Horizontal	Pass
6	9608.487	51.27	74.0	22.73	Peak	290.00	150	Horizontal	Pass
6**	9608.487	48.63	54.0	5.37	AV	290.00	150	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.400	45.66	74.0	28.34	Peak	46.00	400	Vertical	Pass
1**	1162.400	32.51	54.0	21.49	AV	46.00	400	Vertical	Pass
2	2402.200	86.58	74.0	-12.58	Peak	245.00	150	Vertical	N/A
2**	2402.200	86.37	54.0	-32.37	AV	245.00	150	Vertical	N/A
3	4936.200	52.28	74.0	21.72	Peak	274.00	200	Vertical	Pass
3**	4936.200	42.80	54.0	11.20	AV	274.00	200	Vertical	Pass
4	6806.800	55.37	74.0	18.63	Peak	131.00	200	Vertical	Pass
4**	6806.800	45.67	54.0	8.33	AV	131.00	200	Vertical	Pass
5	9608.487	51.27	74.0	22.73	Peak	225.00	150	Vertical	Pass
5**	9608.487	46.29	54.0	7.71	AV	225.00	150	Vertical	Pass
6	17410.949	56.32	74.0	17.68	Peak	11.00	150	Vertical	Pass
6**	17410.949	46.88	54.0	7.12	AV	11.00	150	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1247.100	42.53	74.0	31.47	Peak	57.00	200	Horizontal	Pass
1**	1247.100	32.21	54.0	21.79	AV	57.00	200	Horizontal	Pass
2	2440.800	92.12	74.0	-18.12	Peak	90.00	100	Horizontal	N/A
2**	2440.800	91.46	54.0	-37.46	AV	90.00	100	Horizontal	N/A
3	2633.200	54.03	74.0	19.97	Peak	90.00	100	Horizontal	Pass
3**	2633.200	51.02	54.0	2.98	AV	90.00	100	Horizontal	N/A
4	6936.200	54.76	74.0	19.24	Peak	267.00	400	Horizontal	Pass
4**	6936.200	43.93	54.0	10.07	AV	267.00	400	Horizontal	Pass
5	7323.150	50.27	74.0	23.73	Peak	310.00	150	Horizontal	Pass
5**	7323.150	45.88	54.0	8.12	AV	310.00	150	Horizontal	Pass
6	9764.312	51.47	74.0	22.53	Peak	260.00	150	Horizontal	Pass
6**	9764.312	47.81	54.0	6.19	AV	260.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.100	44.18	74.0	29.82	Peak	34.00	200	Vertical	Pass
1**	1164.100	33.38	54.0	20.62	AV	34.00	200	Vertical	Pass
2	2441.200	86.59	74.0	-12.59	Peak	242.00	150	Vertical	N/A
2**	2441.200	86.20	54.0	-32.20	AV	242.00	150	Vertical	N/A
3	2773.300	51.88	74.0	22.12	Peak	328.00	100	Vertical	Pass
3**	2773.300	42.40	54.0	11.60	AV	328.00	100	Vertical	Pass
4	6975.000	54.87	74.0	19.13	Peak	360.00	400	Vertical	Pass
4**	6975.000	45.70	54.0	8.30	AV	360.00	400	Vertical	Pass
5	9764.312	52.17	74.0	21.83	Peak	224.00	150	Vertical	Pass
5**	9764.312	48.20	54.0	5.80	AV	224.00	150	Vertical	Pass
6	13312.538	55.21	74.0	18.79	Peak	269.00	150	Vertical	Pass
6**	13312.538	46.90	54.0	7.10	AV	269.00	150	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.200	92.29	74.0	-18.29	Peak	91.00	200	Horizontal	N/A
1**	2480.200	92.05	54.0	-38.05	AV	91.00	200	Horizontal	N/A
2	2672.000	53.99	74.0	20.01	Peak	83.00	150	Horizontal	Pass
2**	2672.000	49.88	54.0	4.12	AV	83.00	150	Horizontal	Pass
3	6152.600	54.24	74.0	19.76	Peak	360.00	150	Horizontal	N/A
3**	6152.600	45.23	54.0	8.77	AV	360.00	150	Horizontal	Pass
4	7440.450	50.51	74.0	23.49	Peak	360.00	150	Horizontal	Pass
4**	7440.450	46.69	54.0	7.31	AV	360.00	150	Horizontal	Pass
5	9920.425	50.89	74.0	23.11	Peak	288.00	150	Horizontal	Pass
5**	9920.425	47.50	54.0	6.50	AV	288.00	150	Horizontal	Pass
6	17426.438	56.36	74.0	17.64	Peak	179.00	100	Horizontal	Pass
6**	17426.438	47.32	54.0	6.68	AV	179.00	100	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.100	45.19	74.0	28.81	Peak	65.00	300	Vertical	Pass
1**	1166.100	32.39	54.0	21.61	AV	65.00	300	Vertical	Pass
2	2479.900	85.05	74.0	-11.05	Peak	175.00	200	Vertical	N/A
2**	2479.900	84.16	54.0	-30.16	AV	175.00	200	Vertical	N/A
3	4982.800	52.43	74.0	21.57	Peak	182.00	150	Vertical	Pass
3**	4982.800	42.95	54.0	11.05	AV	182.00	150	Vertical	Pass
4	6976.800	55.05	74.0	18.95	Peak	360.00	400	Vertical	Pass
4**	6976.800	45.84	54.0	8.16	AV	360.00	400	Vertical	Pass
5	9920.425	50.10	74.0	23.90	Peak	220.00	150	Vertical	Pass
5**	9920.425	48.51	54.0	5.49	AV	220.00	150	Vertical	Pass
6	17412.000	56.10	74.0	17.90	Peak	90.00	100	Vertical	Pass
6**	17412.000	47.45	54.0	6.55	AV	90.00	100	Vertical	Pass

$\pi/4$ -DQPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1571.500	42.43	74.0	31.57	Peak	102.00	100	Horizontal	Pass
1**	1571.500	33.42	54.0	20.58	AV	102.00	100	Horizontal	Pass
2	2402.000	93.38	74.0	-19.38	Peak	41.00	150	Horizontal	N/A
2**	2402.000	90.62	54.0	-36.62	AV	41.00	150	Horizontal	N/A
3	2593.900	53.32	74.0	20.68	Peak	311.00	100	Horizontal	Pass
3**	2593.900	49.42	54.0	4.58	AV	311.00	100	Horizontal	N/A
4	6977.000	54.89	74.0	19.11	Peak	173.00	200	Horizontal	Pass
4**	6977.000	46.02	54.0	7.98	AV	173.00	200	Horizontal	Pass
5	9608.487	50.30	74.0	23.70	Peak	210.00	150	Horizontal	Pass
5**	9608.487	47.43	54.0	6.57	AV	210.00	150	Horizontal	Pass
6	13349.550	56.67	74.0	17.33	Peak	155.00	150	Horizontal	Pass
6**	13349.550	47.46	54.0	6.54	AV	155.00	150	Horizontal	Pass

 $\pi/4$ -DQPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.000	45.68	74.0	28.32	Peak	70.00	400	Vertical	Pass
1**	1167.000	32.89	54.0	21.11	AV	70.00	400	Vertical	Pass
2	2401.900	92.03	74.0	-18.03	Peak	75.00	200	Vertical	N/A
2**	2401.900	89.08	54.0	-35.08	AV	75.00	200	Vertical	N/A
3	2594.400	52.25	74.0	21.75	Peak	75.00	150	Vertical	Pass
3**	2594.400	47.50	54.0	6.50	AV	75.00	150	Vertical	Pass
4	4804.400	50.66	74.0	23.34	Peak	138.00	150	Vertical	Pass
4**	4804.400	45.82	54.0	8.18	AV	138.00	150	Vertical	Pass
5	7206.138	49.37	74.0	24.63	Peak	31.00	150	Vertical	Pass
5**	7206.138	45.05	54.0	8.95	AV	31.00	150	Vertical	Pass
6	9608.487	52.22	74.0	21.78	Peak	308.00	150	Vertical	Pass
6**	9608.487	49.59	54.0	4.41	AV	308.00	150	Vertical	Pass

$\pi/4$ -DQPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1586.200	42.76	74.0	31.24	Peak	311.00	300	Horizontal	Pass
1**	1586.200	33.03	54.0	20.97	AV	311.00	300	Horizontal	Pass
2	2441.200	93.22	74.0	-19.22	Peak	330.00	200	Horizontal	N/A
2**	2441.200	90.54	54.0	-36.54	AV	330.00	200	Horizontal	N/A
3	2633.100	53.48	74.0	20.52	Peak	311.00	150	Horizontal	Pass
3**	2633.100	50.04	54.0	3.96	AV	311.00	150	Horizontal	N/A
4	5969.600	54.21	74.0	19.79	Peak	0.00	200	Horizontal	Pass
4**	5969.600	45.21	54.0	8.79	AV	0.00	200	Horizontal	Pass
5	9764.312	51.32	74.0	22.68	Peak	207.00	150	Horizontal	Pass
5**	9764.312	48.08	54.0	5.92	AV	207.00	150	Horizontal	Pass
6	16077.975	56.45	74.0	17.55	Peak	45.00	150	Horizontal	Pass
6**	16077.975	47.10	54.0	6.90	AV	45.00	150	Horizontal	Pass

 $\pi/4$ -DQPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.100	46.54	74.0	27.46	Peak	77.00	200	Vertical	Pass
1**	1166.100	32.43	54.0	21.57	AV	77.00	200	Vertical	Pass
2	2441.100	90.97	74.0	-16.97	Peak	77.00	200	Vertical	N/A
2**	2441.100	90.33	54.0	-36.33	AV	77.00	200	Vertical	N/A
3	4882.200	51.06	74.0	22.94	Peak	79.00	150	Vertical	Pass
3**	4882.200	46.62	54.0	7.38	AV	79.00	150	Vertical	Pass
4	7323.150	50.64	74.0	23.36	Peak	34.00	150	Vertical	Pass
4**	7323.150	45.51	54.0	8.49	AV	34.00	150	Vertical	Pass
5	9764.312	53.72	74.0	20.28	Peak	307.00	150	Vertical	Pass
5**	9764.312	48.92	54.0	5.08	AV	307.00	150	Vertical	Pass
6	16007.363	56.74	74.0	17.26	Peak	210.00	400	Vertical	Pass
6**	16007.363	46.28	54.0	7.72	AV	210.00	400	Vertical	Pass

$\pi/4$ -DQPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1340.000	42.10	74.0	31.90	Peak	306.00	300	Horizontal	Pass
1**	1340.000	32.64	54.0	21.36	AV	306.00	300	Horizontal	Pass
2	2480.200	95.57	74.0	-21.57	Peak	326.00	150	Horizontal	N/A
2**	2480.200	92.87	54.0	-38.87	AV	326.00	150	Horizontal	N/A
3	2672.000	53.76	74.0	20.24	Peak	52.00	100	Horizontal	Pass
3**	2672.000	48.86	54.0	5.14	AV	52.00	100	Horizontal	N/A
4	6513.000	54.95	74.0	19.05	Peak	0.00	150	Horizontal	Pass
4**	6513.000	45.13	54.0	8.87	AV	0.00	150	Horizontal	Pass
5	7440.450	49.32	74.0	24.68	Peak	274.00	150	Horizontal	Pass
5**	7440.450	44.72	54.0	9.28	AV	274.00	150	Horizontal	Pass
6	9920.425	51.97	74.0	22.03	Peak	201.00	150	Horizontal	Pass
6**	9920.425	49.07	54.0	4.93	AV	201.00	150	Horizontal	Pass

 $\pi/4$ -DQPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.000	47.23	74.0	26.77	Peak	67.00	300	Vertical	Pass
1**	1166.000	37.45	54.0	16.55	AV	67.00	300	Vertical	Pass
2	2480.200	92.24	74.0	-18.24	Peak	73.00	150	Vertical	N/A
2**	2480.200	90.90	54.0	-36.90	AV	73.00	150	Vertical	N/A
3	4960.200	50.40	74.0	23.60	Peak	340.00	150	Vertical	Pass
3**	4960.200	46.07	54.0	7.93	AV	340.00	150	Vertical	Pass
4	6402.600	55.10	74.0	18.90	Peak	351.00	100	Vertical	Pass
4**	6402.600	44.99	54.0	9.01	AV	351.00	100	Vertical	Pass
5	7440.450	50.20	74.0	23.80	Peak	356.00	150	Vertical	Pass
5**	7440.450	45.28	54.0	8.72	AV	356.00	150	Vertical	Pass
6	9920.425	52.59	74.0	21.41	Peak	337.00	150	Vertical	Pass
6**	9920.425	47.57	54.0	6.43	AV	337.00	150	Vertical	Pass

5.11 Band Edge (Restricted-band band-edge)

5.11.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.11.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.11.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.11.4 Test Result

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

Test Data

GFSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2318.650	58.25	74.0	15.75	Peak	264.00	150	Horizontal	Pass
1**	2318.650	46.25	54.0	7.75	AV	264.00	150	Horizontal	Pass
2	2389.950	55.45	74.0	18.55	Peak	74.00	200	Horizontal	Pass
2**	2389.950	45.96	54.0	8.04	AV	74.00	200	Horizontal	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	56.78	74.0	17.22	Peak	298.00	150	Horizontal	Pass
1**	2483.560	46.27	54.0	7.73	AV	298.00	150	Horizontal	Pass
2	2490.850	57.56	74.0	16.44	Peak	345.00	100	Horizontal	Pass
2**	2490.850	46.22	54.0	7.78	AV	345.00	100	Horizontal	Pass

$\pi/4$ -DQPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2387.000	57.86	74.0	16.14	Peak	110.00	100	Horizontal	Pass
1**	2387.000	46.36	54.0	7.64	AV	110.00	100	Horizontal	Pass
2	2389.950	55.28	74.0	18.72	Peak	353.00	200	Horizontal	Pass
2**	2389.950	45.95	54.0	8.05	AV	353.00	200	Horizontal	Pass

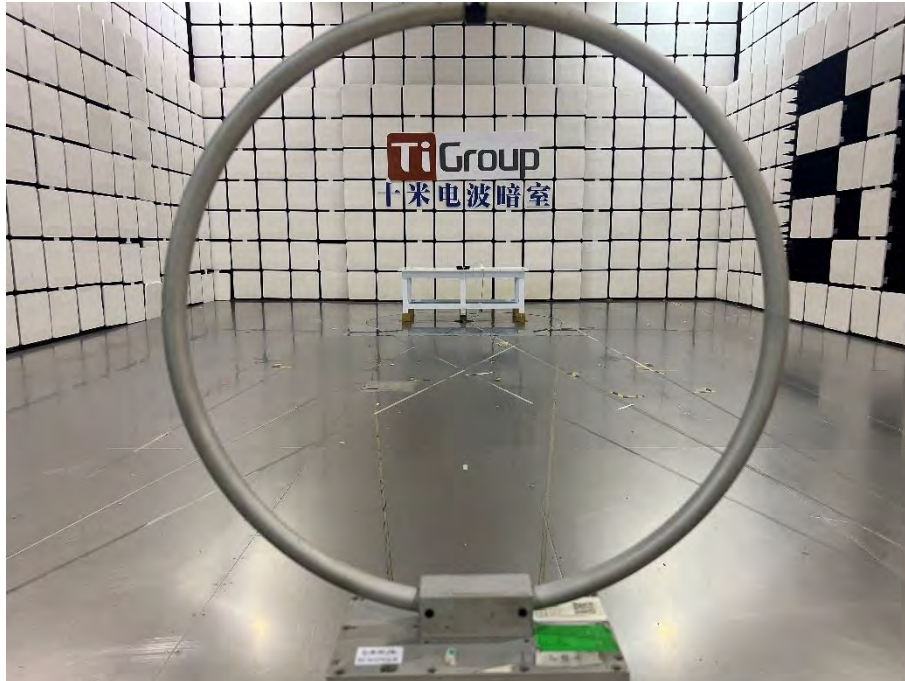
$\pi/4$ -DQPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	56.91	74.0	17.09	Peak	326.00	100	Horizontal	Pass
1**	2483.560	46.13	54.0	7.87	AV	326.00	100	Horizontal	Pass
2	2498.530	58.05	74.0	15.95	Peak	98.00	200	Horizontal	Pass
2**	2498.530	46.16	54.0	7.84	AV	98.00	200	Horizontal	Pass

ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



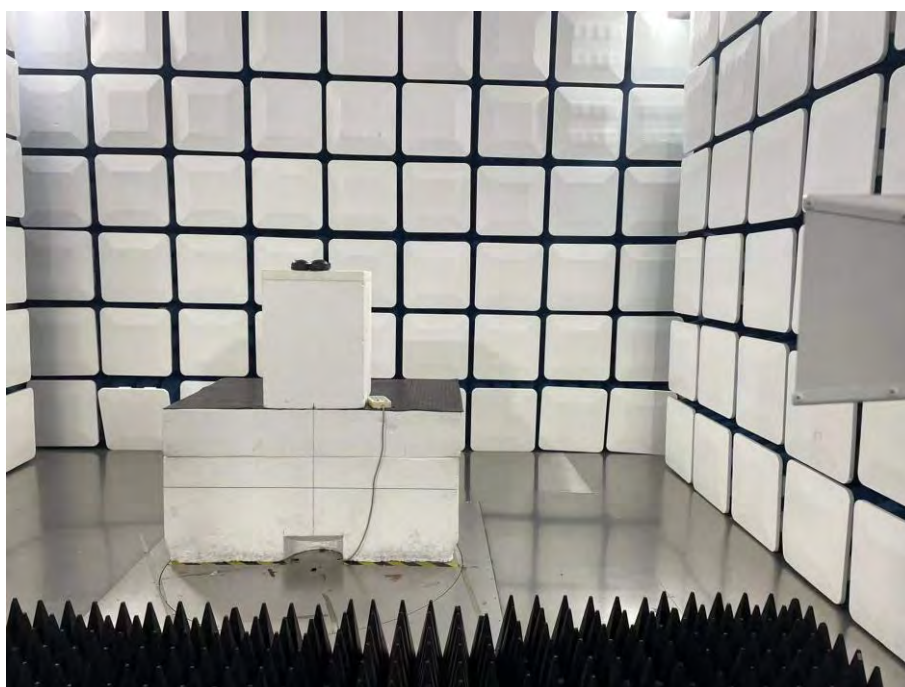
30MHz-1GHz



Close-up



Above 1GHz



Close-up



2 Conducted Test Photo

Conducted Test

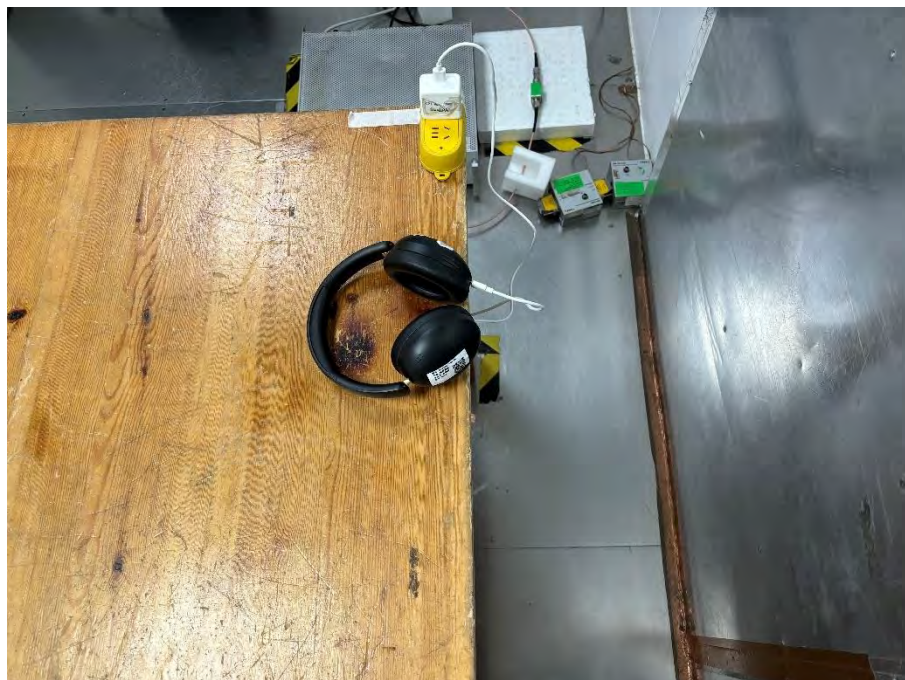


3 Conducted Emission

Photo 1



Photo 2



ANNEX B EUT EXTERNAL PHOTOS

FRONT VIEW OF EUT



REAR VIEW OF EUT



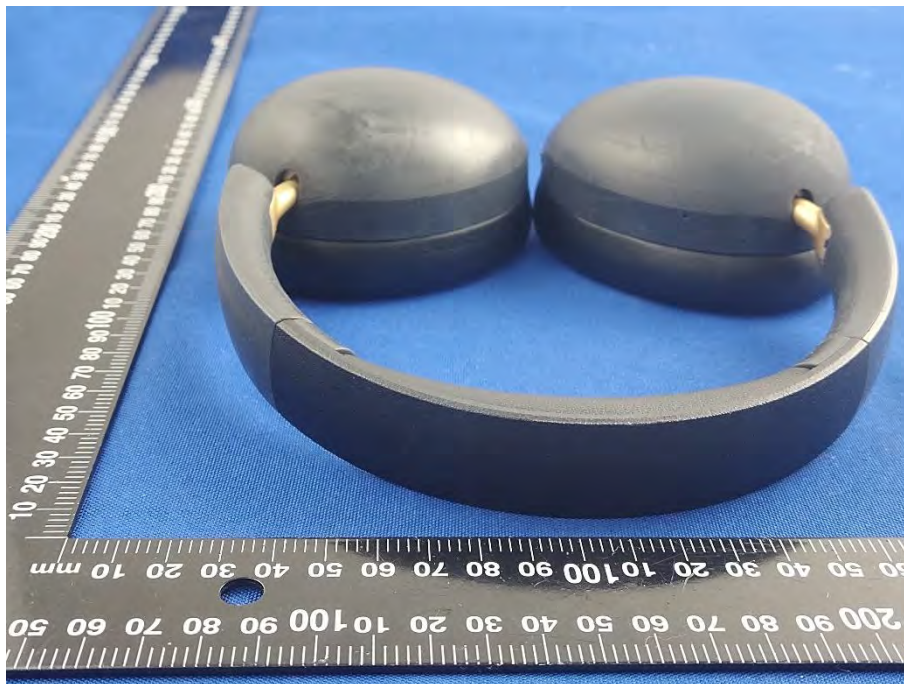
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



CLOSE-UP



Headphone+Charging Cable+USB Cable



Headphone+Charging Cable



Headphone+Charging Cable+USB Cable



Headphone+Charging Cable



Accessory-USB-A Cable 1



Accessory-USB-C Cable 1



Accessory-USB-A Cable 2



Accessory-USB-C Cable 2

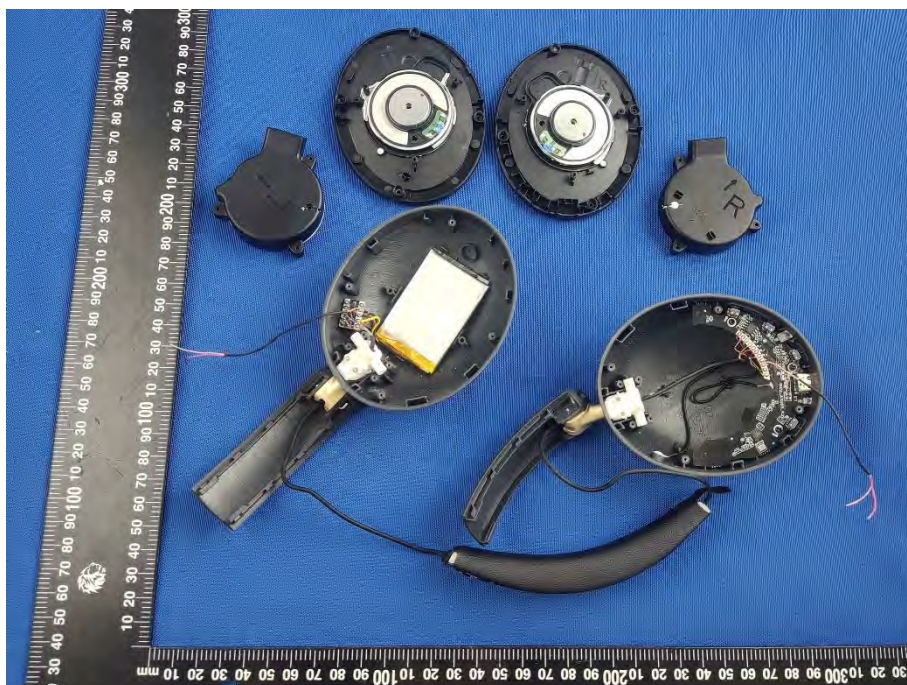


ANNEX C EUT INTERNAL PHOTOS

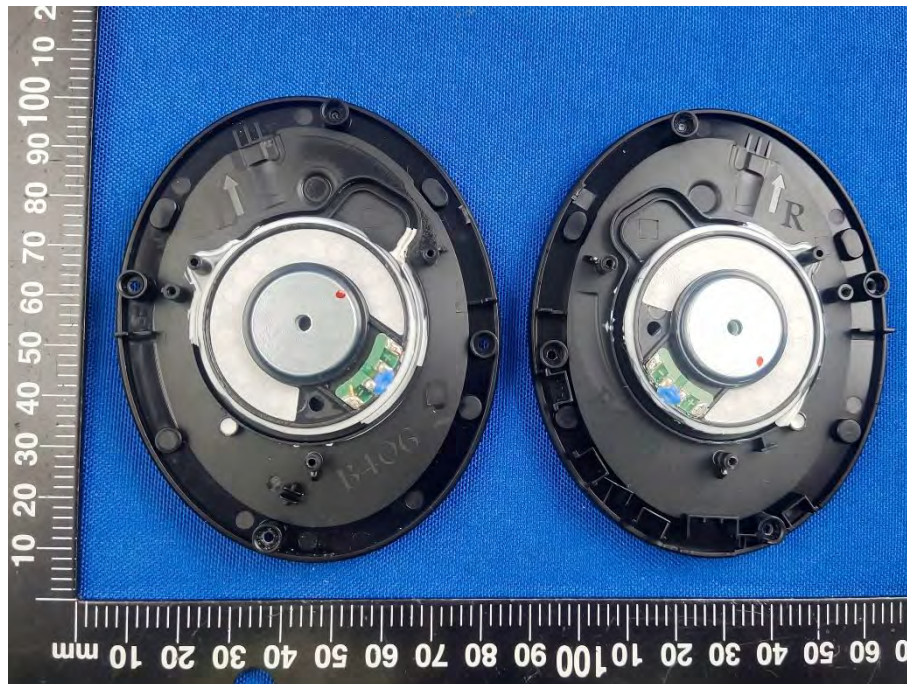
EUT UNCOVER VIEW 1



EUT UNCOVER VIEW 2



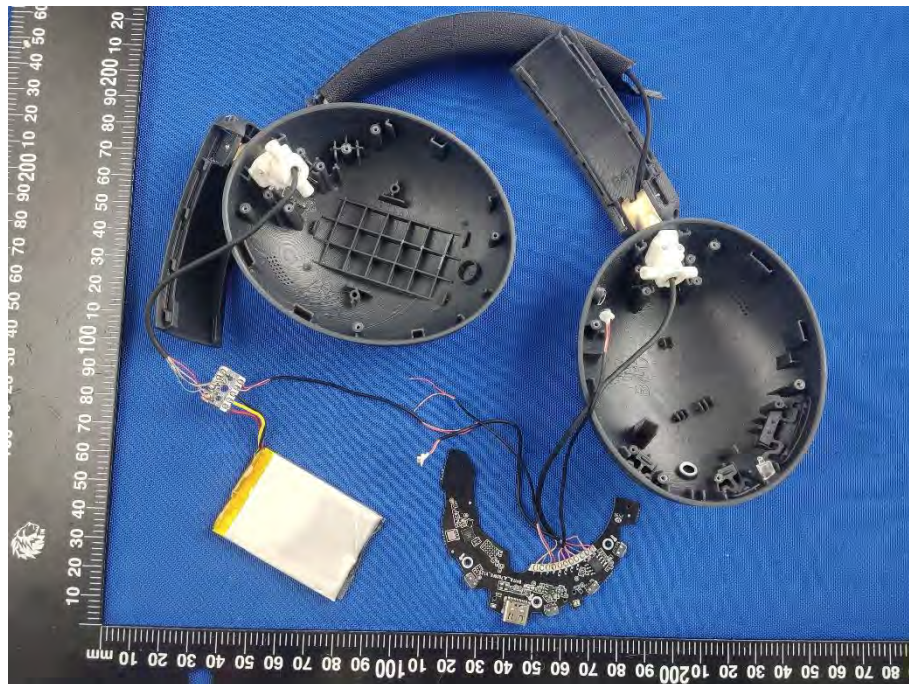
EUT UNCOVER VIEW 3



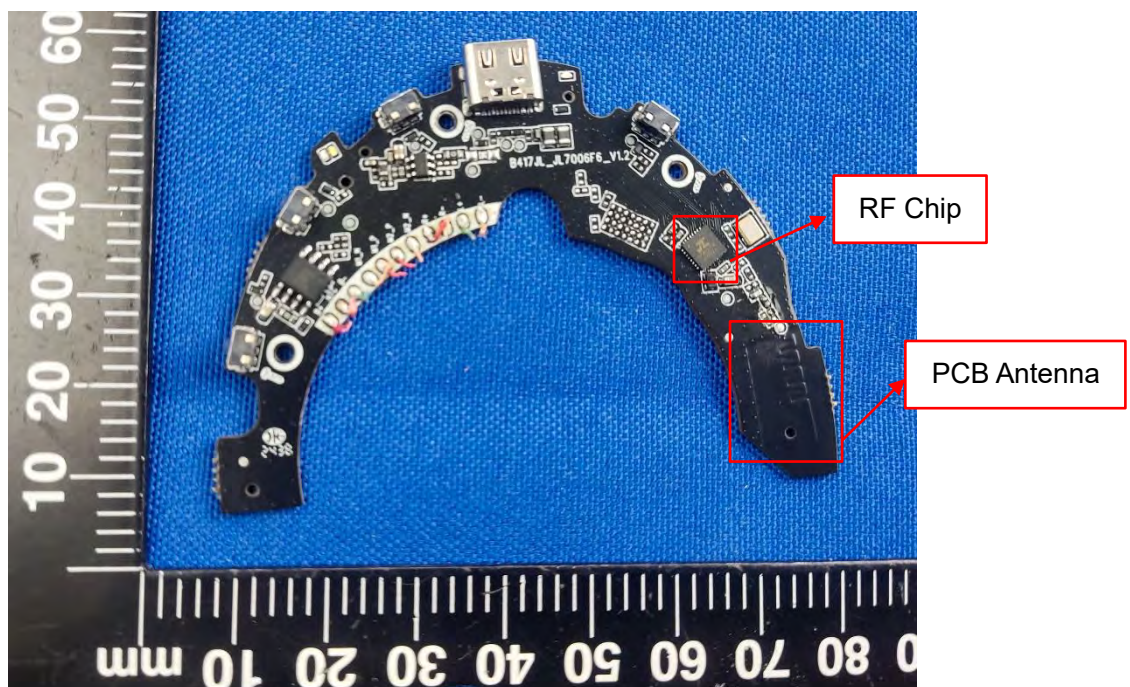
EUT UNCOVER VIEW 4



EUT UNCOVER VIEW 5



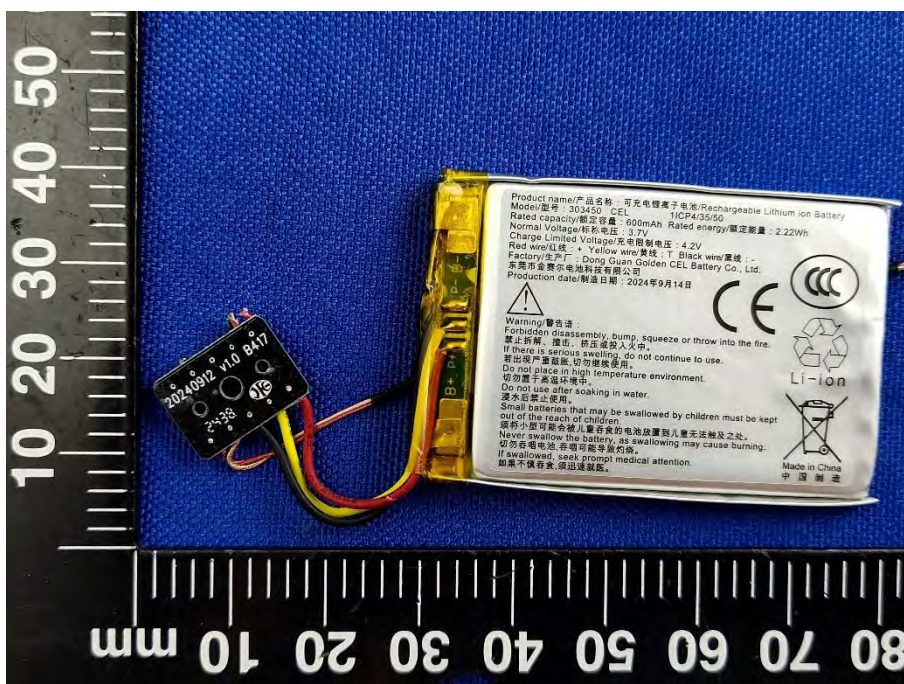
MAIN BOARD TOP VIEW



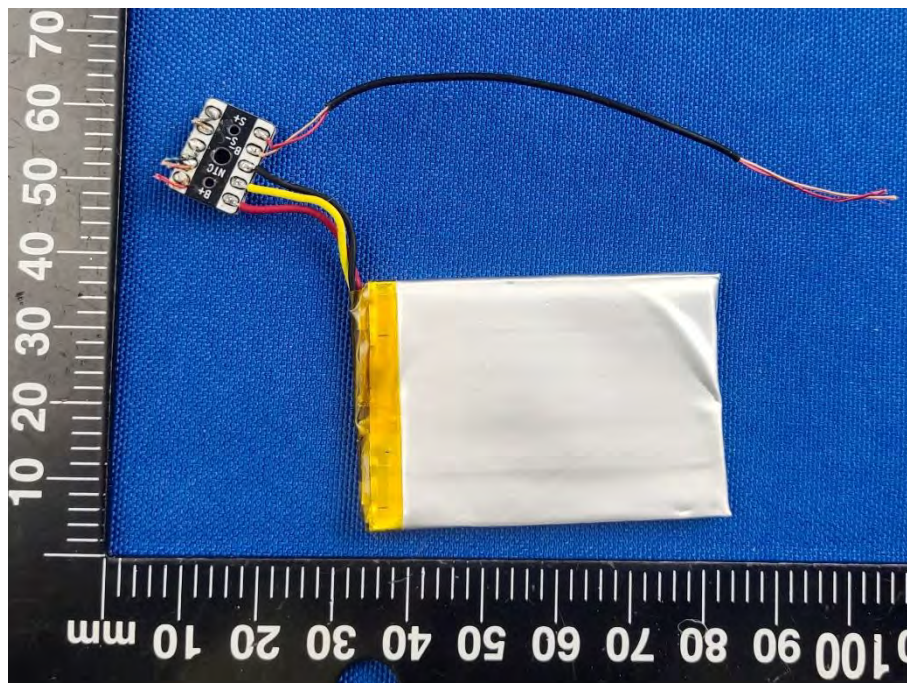
MAIN BOARD REAR VIEW



BATTERY (FRONT)



BATTERY (REAR)



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--END OF REPORT--