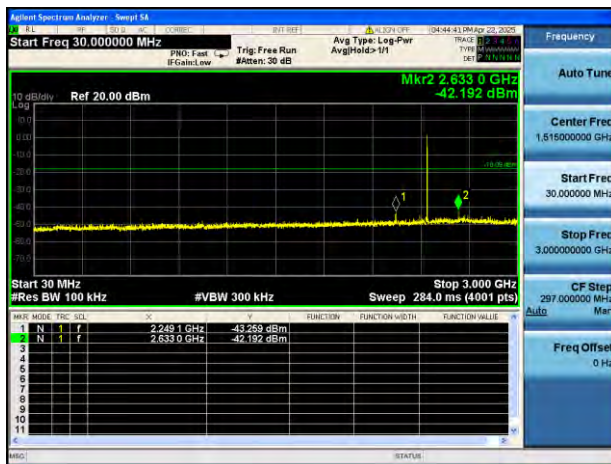
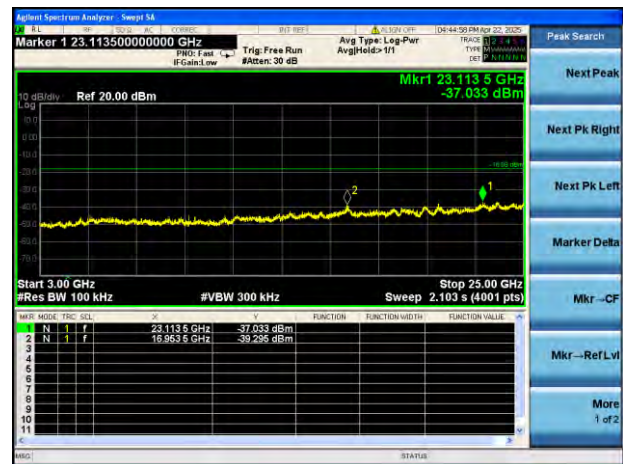


GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



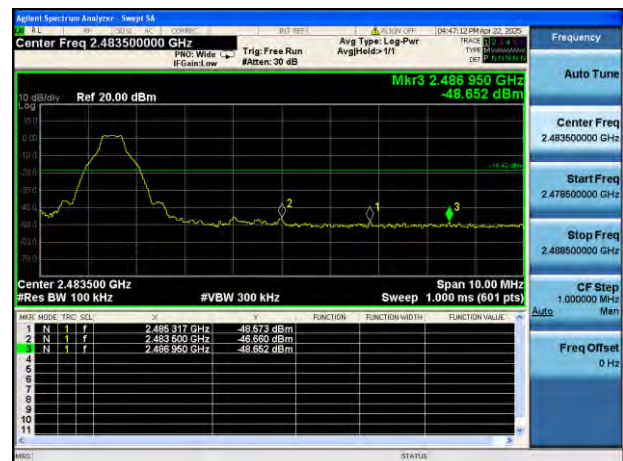
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



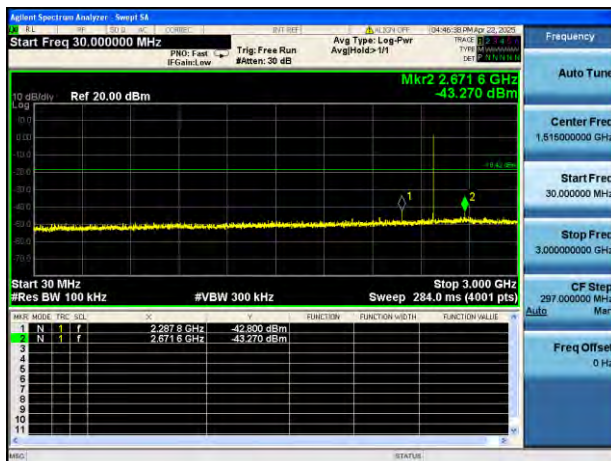
GFSK HIGH CHANNEL, CARRIER LEVEL



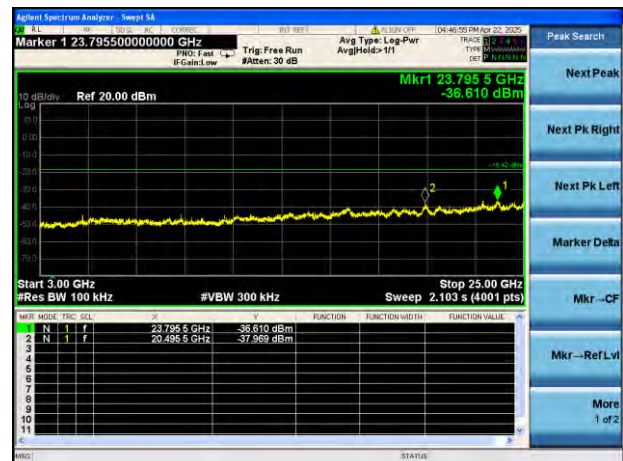
GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



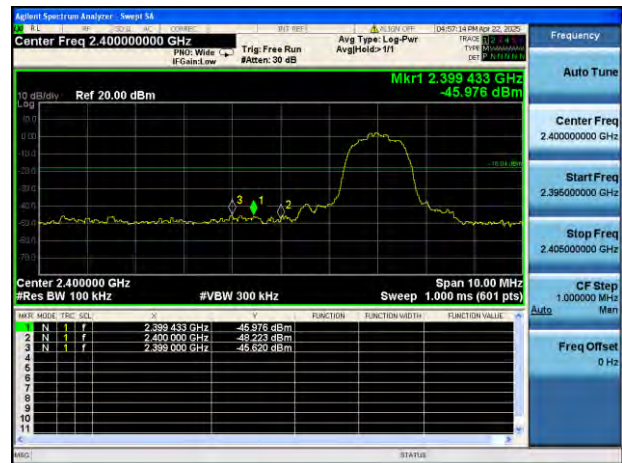
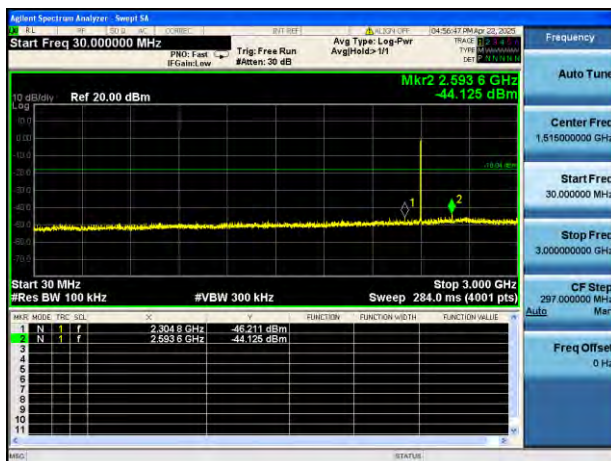
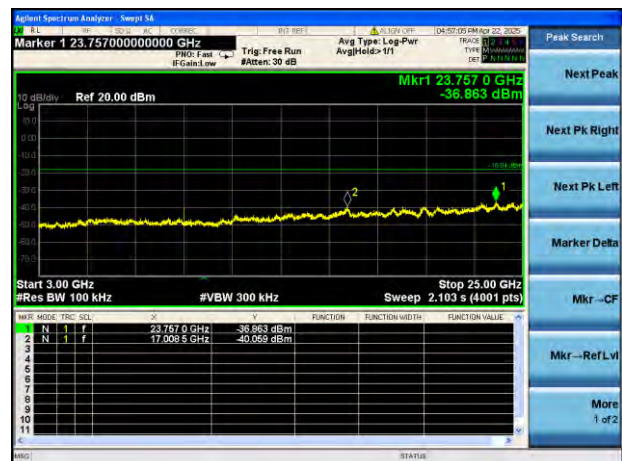
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL



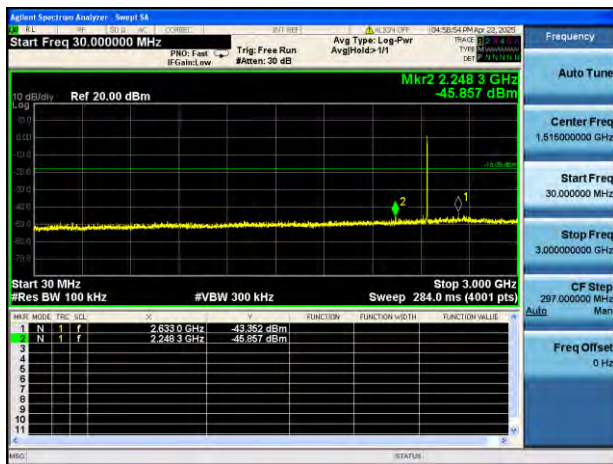
8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

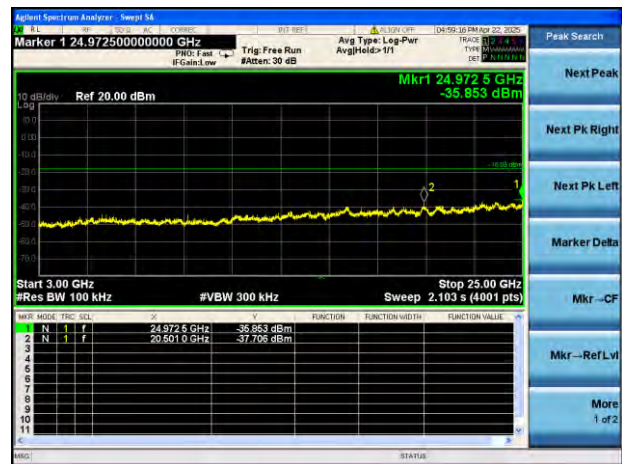
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



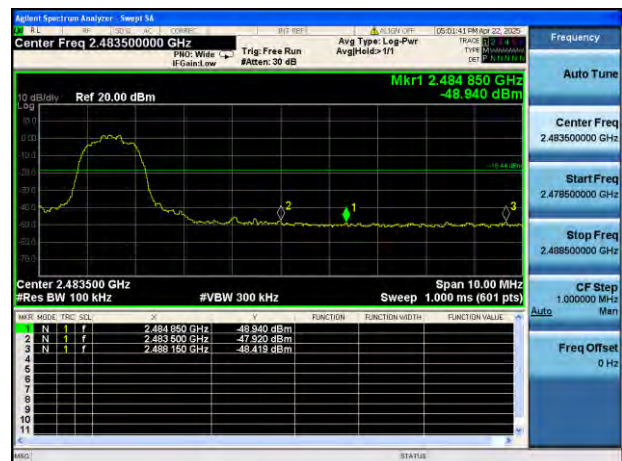
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



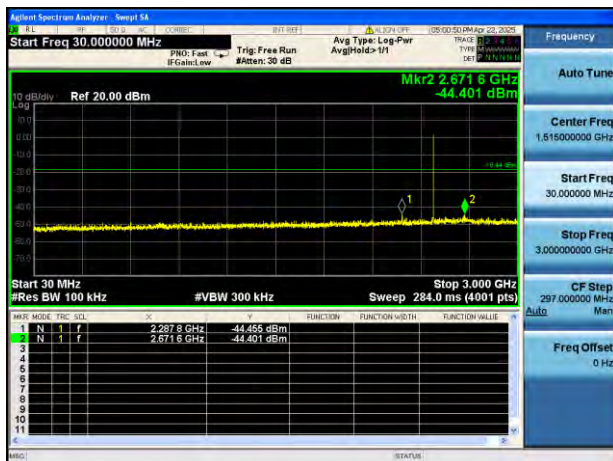
8-DPSK HIGH CHANNEL, CARRIER LEVEL



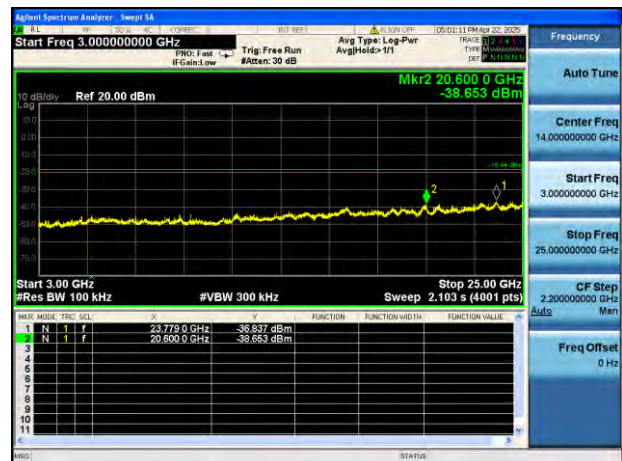
8-DPSK HIGH CHANNEL, BAND EDGE



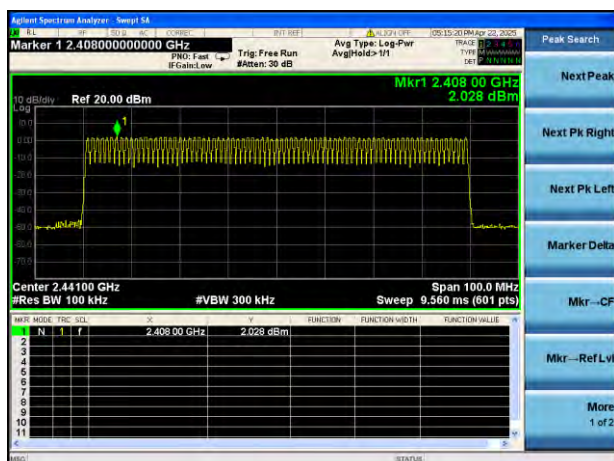
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



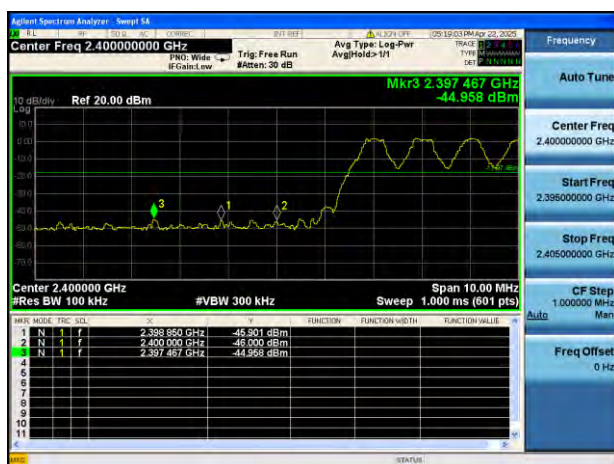
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



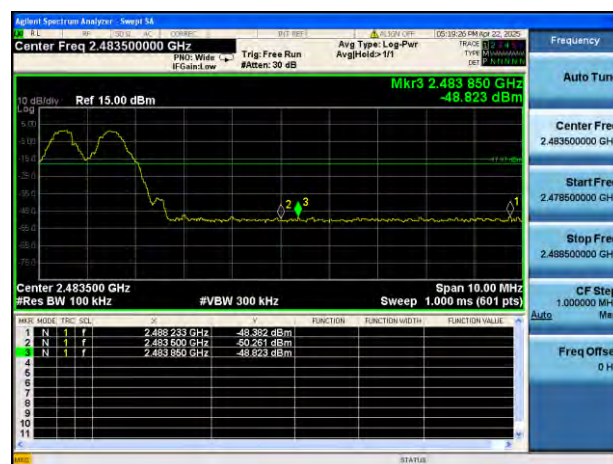
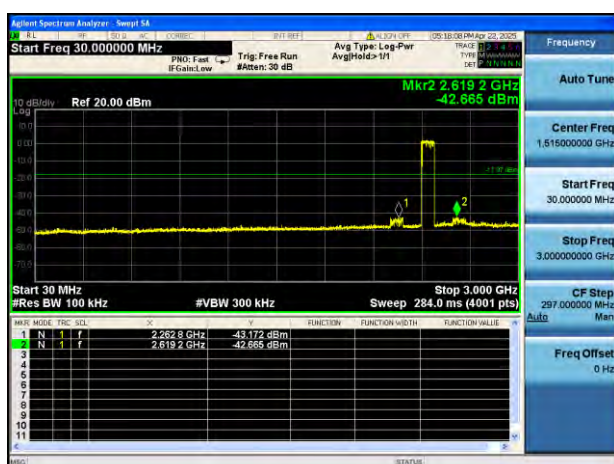
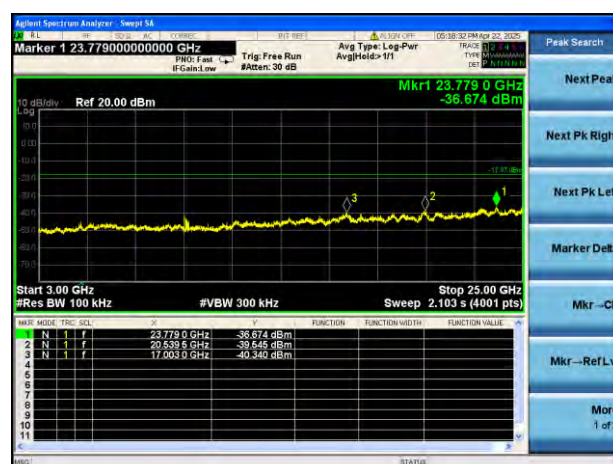
GFSK HOPPING, CARRIER LEVEL



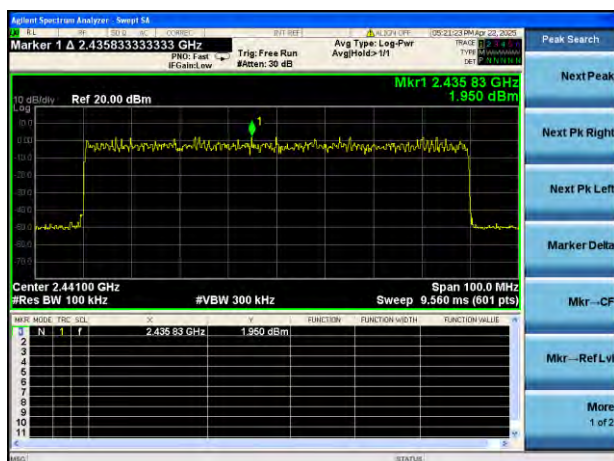
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

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

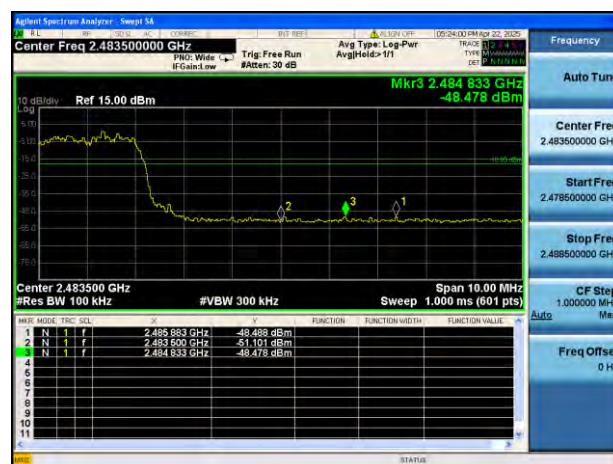
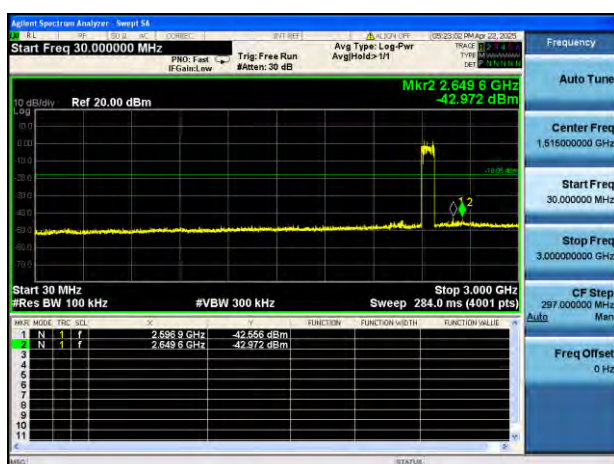
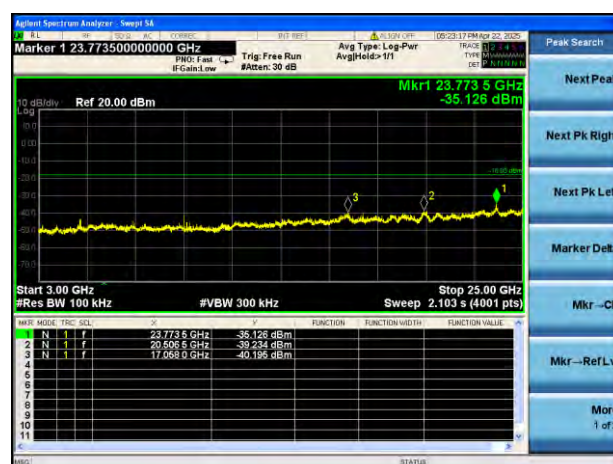
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)

8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK 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 Link mode and the charging.

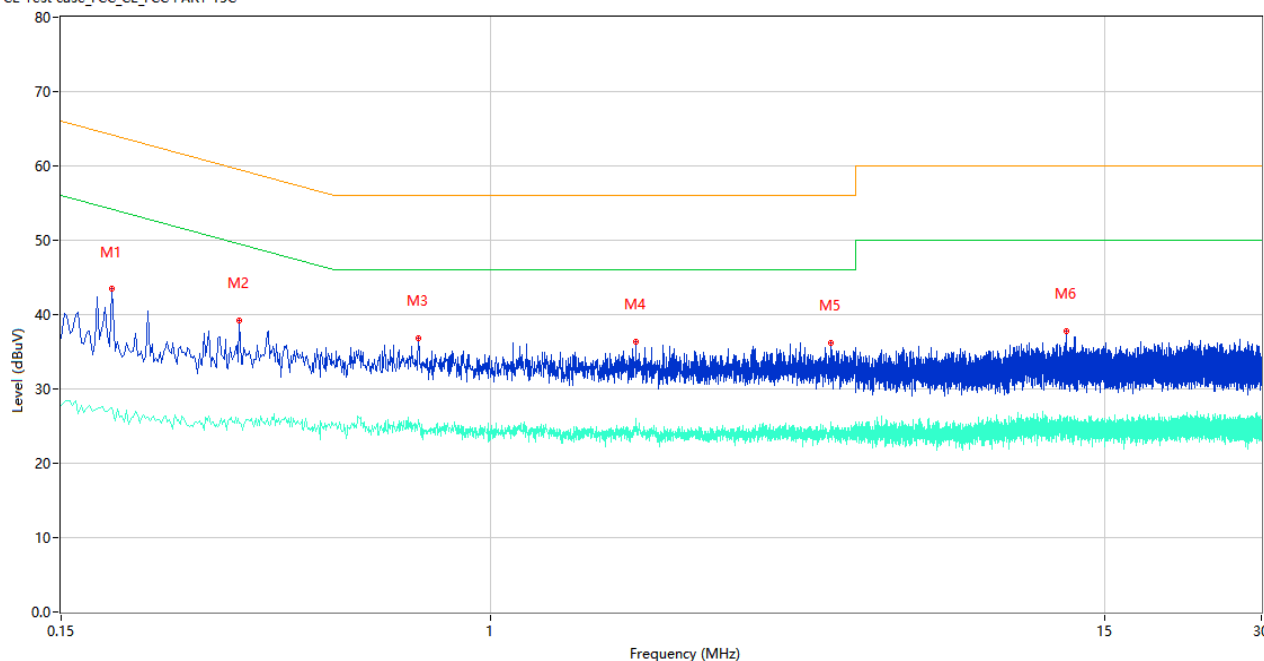
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

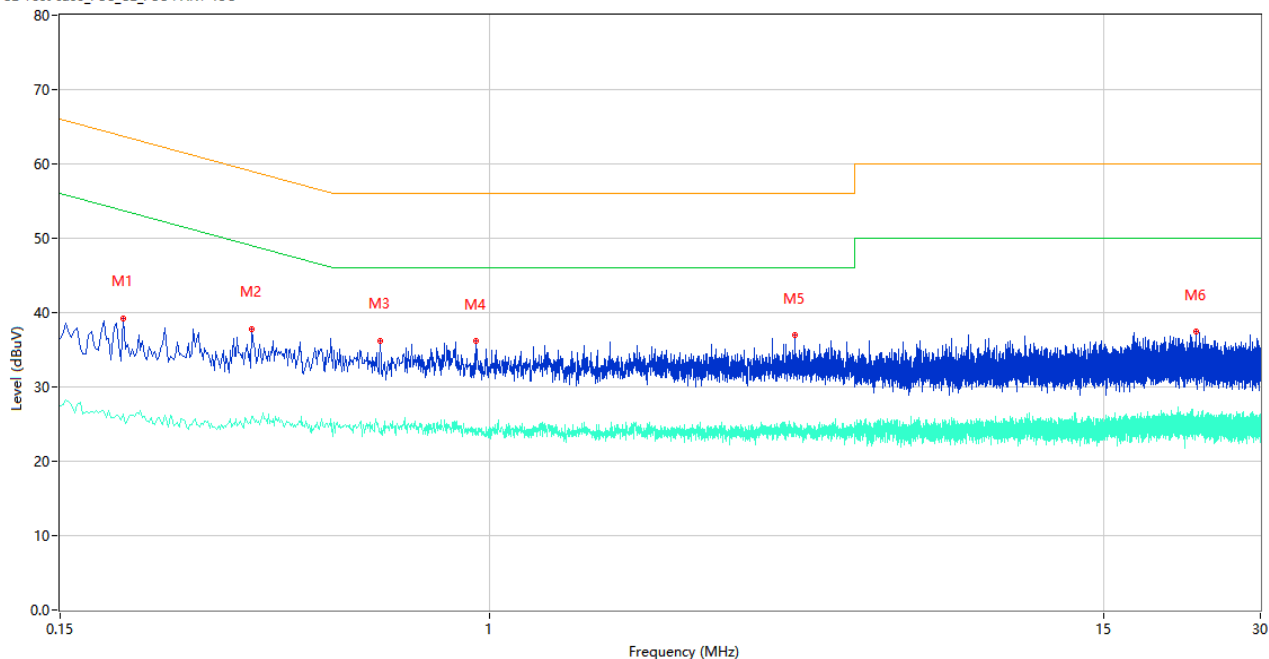
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	43.49	9.78	64.12	20.63	Peak	L	Pass
1**	0.188	27.41	9.78	54.12	26.71	AV	L	Pass
2	0.330	39.22	10.36	59.45	20.23	Peak	L	Pass
2**	0.330	25.36	10.36	49.45	24.09	AV	L	Pass
3	0.726	36.86	10.40	56.00	19.14	Peak	L	Pass
3**	0.726	25.88	10.40	46.00	20.12	AV	L	Pass
4	1.896	36.40	10.73	56.00	19.60	Peak	L	Pass
4**	1.896	26.03	10.73	46.00	19.97	AV	L	Pass
5	4.496	36.23	10.44	56.00	19.77	Peak	L	Pass
5**	4.496	25.49	10.44	46.00	20.51	AV	L	Pass
6	12.682	37.75	10.39	60.00	22.25	Peak	L	Pass
6**	12.682	25.90	10.39	50.00	24.10	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	0.198	39.22	9.77	63.69	24.47	Peak	N	Pass
1**	0.198	26.35	9.77	53.69	27.34	AV	N	Pass
2	0.350	37.81	10.76	58.96	21.15	Peak	N	Pass
2**	0.350	26.05	10.76	48.96	22.91	AV	N	Pass
3	0.616	36.27	10.18	56.00	19.73	Peak	N	Pass
3**	0.616	23.97	10.18	46.00	22.03	AV	N	Pass
4	0.942	36.15	10.08	56.00	19.85	Peak	N	Pass
4**	0.942	24.43	10.08	46.00	21.57	AV	N	Pass
5	3.852	36.96	10.30	56.00	19.04	Peak	N	Pass
5**	3.852	25.00	10.30	46.00	21.00	AV	N	Pass
6	22.560	37.41	10.76	60.00	22.59	Peak	N	Pass
6**	22.560	25.65	10.76	50.00	24.35	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.

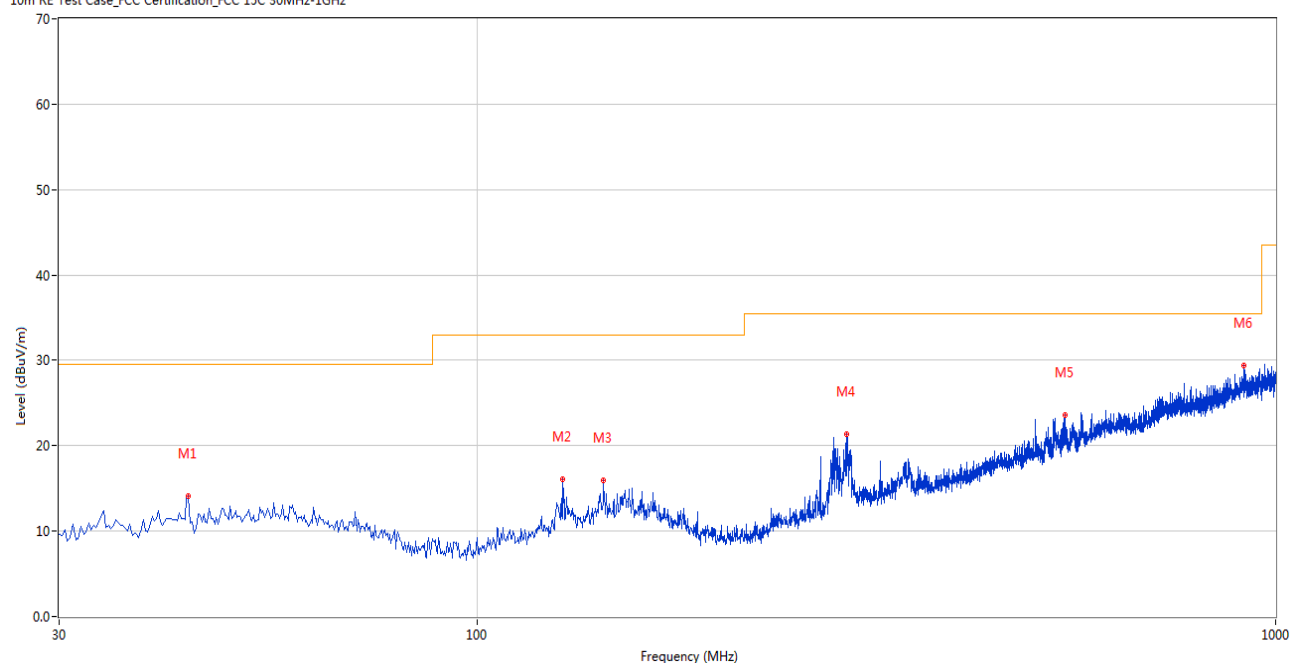
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

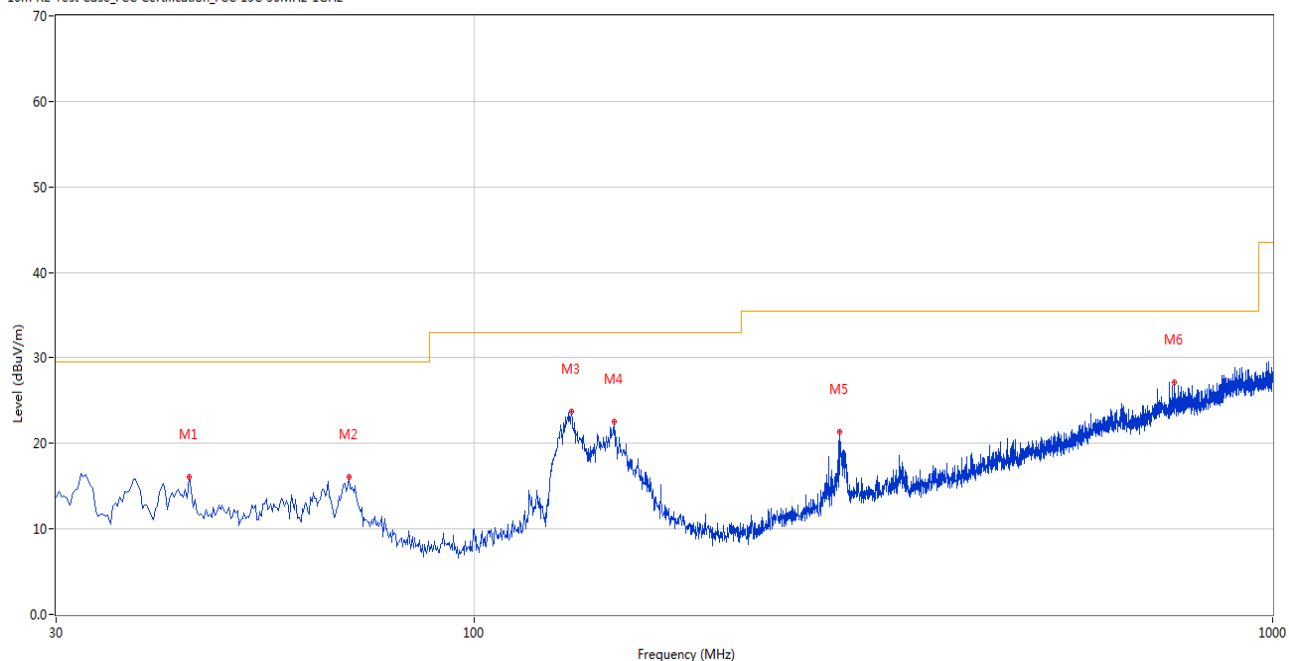
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.577	14.06	-26.25	29.5	15.44	Peak	112.00	200	Horizontal	Pass
2	127.946	16.05	-27.27	33.0	16.95	Peak	140.00	100	Horizontal	Pass
3	144.189	15.90	-25.94	33.0	17.10	Peak	25.00	200	Horizontal	Pass
4	290.137	21.30	-25.05	35.5	14.20	Peak	260.00	200	Horizontal	Pass
5	545.426	23.66	-18.46	35.5	11.84	Peak	248.00	200	Horizontal	Pass
6	911.510	29.34	-10.69	35.5	6.16	Peak	2.00	200	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	44.061	16.03	-26.15	29.5	13.47	Peak	360.00	200	Vertical	Pass
2	69.760	16.10	-28.19	29.5	13.40	Peak	106.00	200	Vertical	Pass
3	132.552	23.70	-26.89	33.0	9.30	Peak	270.00	200	Vertical	Pass
4	149.765	22.58	-25.66	33.0	10.42	Peak	242.00	100	Vertical	Pass
5	286.986	21.35	-25.22	35.5	14.15	Peak	190.00	100	Vertical	Pass
6	753.682	27.19	-13.07	35.5	8.31	Peak	357.00	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	1438.800	42.85	74.0	31.15	Peak	85.00	200	Horizontal	Pass
1**	1438.800	33.50	54.0	20.50	AV	85.00	200	Horizontal	Pass
2	2401.800	90.29	74.0	-16.29	Peak	177.00	100	Horizontal	N/A
2**	2401.800	89.19	54.0	-35.19	AV	177.00	100	Horizontal	N/A
3	4800.750	50.02	74.0	23.98	Peak	304.00	200	Horizontal	Pass
3**	4800.750	41.95	54.0	12.05	AV	304.00	200	Horizontal	Pass
4	7875.000	54.77	74.0	19.23	Peak	184.00	200	Horizontal	Pass
4**	7875.000	44.71	54.0	9.29	AV	184.00	200	Horizontal	Pass
5	12505.850	53.67	74.0	20.33	Peak	14.00	400	Horizontal	Pass
5**	12505.850	44.54	54.0	9.46	AV	14.00	400	Horizontal	Pass
6	17452.163	55.38	74.0	18.62	Peak	3.00	100	Horizontal	Pass
6**	17452.163	45.85	54.0	8.15	AV	3.00	100	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	1332.100	45.46	74.0	28.54	Peak	179.00	100	Vertical	Pass
1**	1332.100	35.86	54.0	18.14	AV	179.00	100	Vertical	Pass
2	2401.800	95.91	74.0	-21.91	Peak	235.00	100	Vertical	N/A
2**	2401.800	94.54	54.0	-40.54	AV	235.00	100	Vertical	N/A
3	4806.250	49.57	74.0	24.43	Peak	246.00	200	Vertical	Pass
3**	4806.250	40.69	54.0	13.31	AV	246.00	200	Vertical	Pass
4	5333.500	54.81	74.0	19.19	Peak	105.00	300	Vertical	Pass
4**	5333.500	40.97	54.0	13.03	AV	105.00	300	Vertical	Pass
5	12498.250	53.85	74.0	20.15	Peak	276.00	400	Vertical	Pass
5**	12498.250	44.75	54.0	9.25	AV	276.00	400	Vertical	Pass
6	16867.838	56.11	74.0	17.89	Peak	331.00	200	Vertical	Pass
6**	16867.838	46.75	54.0	7.25	AV	331.00	200	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	1413.700	42.17	74.0	31.83	Peak	18.00	100	Horizontal	Pass
1**	1413.700	33.54	54.0	20.46	AV	18.00	100	Horizontal	Pass
2	2441.000	84.54	74.0	-10.54	Peak	112.00	150	Horizontal	N/A
2**	2441.000	84.37	54.0	-30.37	AV	112.00	150	Horizontal	N/A
3	4839.000	50.24	74.0	23.76	Peak	104.00	100	Horizontal	Pass
3**	4839.000	40.70	54.0	13.30	AV	104.00	100	Horizontal	Pass
4	6943.250	53.47	74.0	20.53	Peak	40.00	100	Horizontal	Pass
4**	6943.250	43.23	54.0	10.77	AV	40.00	100	Horizontal	Pass
5	12504.662	53.96	74.0	20.04	Peak	52.00	400	Horizontal	Pass
5**	12504.662	44.51	54.0	9.49	AV	52.00	400	Horizontal	Pass
6	17116.687	56.02	74.0	17.98	Peak	244.00	400	Horizontal	Pass
6**	17116.687	45.66	54.0	8.34	AV	244.00	400	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	1330.300	45.44	74.0	28.56	Peak	185.00	100	Vertical	Pass
1**	1330.300	33.85	54.0	20.15	AV	185.00	100	Vertical	Pass
2	2441.000	87.84	74.0	-13.84	Peak	224.00	150	Vertical	N/A
2**	2441.000	87.68	54.0	-33.68	AV	224.00	150	Vertical	N/A
3	4984.250	49.80	74.0	24.20	Peak	220.00	100	Vertical	Pass
3**	4984.250	40.56	54.0	13.44	AV	220.00	100	Vertical	Pass
4	7878.750	53.64	74.0	20.36	Peak	0.00	400	Vertical	Pass
4**	7878.750	44.00	54.0	10.00	AV	0.00	400	Vertical	Pass
5	12496.588	54.38	74.0	19.62	Peak	118.00	400	Vertical	Pass
5**	12496.588	44.58	54.0	9.42	AV	118.00	400	Vertical	Pass
6	14454.674	55.55	74.0	18.45	Peak	346.00	300	Vertical	Pass
6**	14454.674	46.49	54.0	7.51	AV	346.00	300	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	1524.100	41.92	74.0	32.08	Peak	307.00	100	Horizontal	Pass
1**	1524.100	32.54	54.0	21.46	AV	307.00	100	Horizontal	Pass
2	2480.000	86.64	74.0	-12.64	Peak	108.00	100	Horizontal	N/A
2**	2480.000	86.49	54.0	-32.49	AV	108.00	100	Horizontal	N/A
3	4883.750	51.25	74.0	22.75	Peak	190.00	200	Horizontal	Pass
3**	4883.750	40.07	54.0	13.93	AV	190.00	200	Horizontal	Pass
4	6893.500	54.41	74.0	19.59	Peak	36.00	100	Horizontal	Pass
4**	6893.500	45.64	54.0	8.36	AV	36.00	100	Horizontal	Pass
5	12469.037	53.71	74.0	20.29	Peak	16.00	200	Horizontal	Pass
5**	12469.037	44.74	54.0	9.26	AV	16.00	200	Horizontal	Pass
6	16870.725	56.44	74.0	17.56	Peak	322.00	200	Horizontal	Pass
6**	16870.725	46.43	54.0	7.57	AV	322.00	200	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	1331.900	42.82	74.0	31.18	Peak	105.00	100	Vertical	Pass
1**	1331.900	33.38	54.0	20.62	AV	105.00	100	Vertical	Pass
2	2480.000	88.25	74.0	-14.25	Peak	235.00	150	Vertical	N/A
2**	2480.000	88.09	54.0	-34.09	AV	235.00	150	Vertical	N/A
3	4787.000	50.10	74.0	23.90	Peak	36.00	100	Vertical	Pass
3**	4787.000	40.23	54.0	13.77	AV	36.00	100	Vertical	Pass
4	5308.500	57.52	74.0	16.48	Peak	142.00	100	Vertical	Pass
4**	5308.500	48.76	54.0	5.24	AV	142.00	100	Vertical	Pass
5	12443.862	53.62	74.0	20.38	Peak	98.00	300	Vertical	Pass
5**	12443.862	44.49	54.0	9.51	AV	98.00	300	Vertical	Pass
6	17143.988	55.50	74.0	18.50	Peak	157.00	100	Vertical	Pass
6**	17143.988	45.50	54.0	8.50	AV	157.00	100	Vertical	Pass

8-DPSK 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	1593.000	42.04	74.0	31.96	Peak	190.00	200	Horizontal	Pass
1**	1593.000	32.96	54.0	21.04	AV	190.00	200	Horizontal	Pass
2	2402.000	86.83	74.0	-12.83	Peak	95.00	200	Horizontal	N/A
2**	2402.000	86.65	54.0	-32.65	AV	95.00	200	Horizontal	N/A
3	4854.500	51.53	74.0	22.47	Peak	356.00	200	Horizontal	Pass
3**	4854.500	40.83	54.0	13.17	AV	356.00	200	Horizontal	Pass
4	6894.500	54.37	74.0	19.63	Peak	38.00	100	Horizontal	Pass
4**	6894.500	46.19	54.0	7.81	AV	38.00	100	Horizontal	Pass
5	12485.425	53.34	74.0	20.66	Peak	283.00	200	Horizontal	Pass
5**	12485.425	45.10	54.0	8.90	AV	283.00	200	Horizontal	Pass
6	17007.225	56.13	74.0	17.87	Peak	48.00	200	Horizontal	Pass
6**	17007.225	45.94	54.0	8.06	AV	48.00	200	Horizontal	Pass

8-DPSK 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	1332.400	45.13	74.0	28.87	Peak	175.00	100	Vertical	Pass
1**	1332.400	38.50	54.0	15.50	AV	175.00	100	Vertical	Pass
2	2402.000	85.87	74.0	-11.87	Peak	224.00	150	Vertical	N/A
2**	2402.000	85.69	54.0	-31.69	AV	224.00	150	Vertical	N/A
3	4820.750	49.54	74.0	24.46	Peak	16.00	200	Vertical	Pass
3**	4820.750	40.40	54.0	13.60	AV	16.00	200	Vertical	Pass
4	5308.500	55.41	74.0	18.59	Peak	121.00	300	Vertical	Pass
4**	5308.500	40.81	54.0	13.19	AV	121.00	300	Vertical	Pass
5	5308.750	55.06	74.0	18.94	Peak	121.00	100	Vertical	Pass
5**	5308.750	45.60	54.0	8.40	AV	121.00	100	Vertical	Pass
6	12954.488	53.86	74.0	20.14	Peak	307.00	300	Vertical	Pass
6**	12954.488	44.06	54.0	9.94	AV	307.00	300	Vertical	Pass

8-DPSK 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	1361.600	42.38	74.0	31.62	Peak	63.00	300	Horizontal	Pass
1**	1361.600	31.94	54.0	22.06	AV	63.00	300	Horizontal	Pass
2	2441.000	88.05	74.0	-14.05	Peak	103.00	100	Horizontal	N/A
2**	2441.000	87.89	54.0	-33.89	AV	103.00	100	Horizontal	N/A
3	4881.750	50.50	74.0	23.50	Peak	341.00	100	Horizontal	Pass
3**	4881.750	41.85	54.0	12.15	AV	341.00	100	Horizontal	Pass
4	6914.000	53.95	74.0	20.05	Peak	106.00	300	Horizontal	Pass
4**	6914.000	44.97	54.0	9.03	AV	106.00	300	Horizontal	Pass
5	12952.912	53.79	74.0	20.21	Peak	235.00	200	Horizontal	Pass
5**	12952.912	43.93	54.0	10.07	AV	235.00	200	Horizontal	Pass
6	16978.088	55.28	74.0	18.72	Peak	36.00	300	Horizontal	Pass
6**	16978.088	46.15	54.0	7.85	AV	36.00	300	Horizontal	Pass

8-DPSK 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	1330.700	43.72	74.0	30.28	Peak	176.00	200	Vertical	Pass
1**	1330.700	37.11	54.0	16.89	AV	176.00	200	Vertical	Pass
2	2441.000	89.06	74.0	-15.06	Peak	237.00	150	Vertical	N/A
2**	2441.000	88.92	54.0	-34.92	AV	237.00	150	Vertical	N/A
3	4882.500	47.86	74.0	26.14	Peak	0.00	100	Vertical	Pass
3**	4882.500	44.40	54.0	9.60	AV	0.00	100	Vertical	Pass
4	5315.000	52.81	74.0	21.19	Peak	115.00	100	Vertical	Pass
4**	5315.000	47.14	54.0	6.86	AV	115.00	100	Vertical	Pass
5	12998.587	54.09	74.0	19.91	Peak	154.00	100	Vertical	Pass
5**	12998.587	44.48	54.0	9.52	AV	154.00	100	Vertical	Pass
6	16848.938	56.38	74.0	17.62	Peak	310.00	300	Vertical	Pass
6**	16848.938	46.50	54.0	7.50	AV	310.00	300	Vertical	Pass

8-DPSK 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	1380.000	41.90	74.0	32.10	Peak	197.00	300	Horizontal	Pass
1**	1380.000	32.39	54.0	21.61	AV	197.00	300	Horizontal	Pass
2	2480.000	83.80	74.0	-9.80	Peak	334.00	200	Horizontal	N/A
2**	2480.000	83.62	54.0	-29.62	AV	334.00	200	Horizontal	N/A
3	4960.500	47.98	74.0	26.02	Peak	237.00	100	Horizontal	Pass
3**	4960.500	45.30	54.0	8.70	AV	237.00	100	Horizontal	Pass
4	7970.500	53.57	74.0	20.43	Peak	337.00	400	Horizontal	Pass
4**	7970.500	44.32	54.0	9.68	AV	337.00	400	Horizontal	Pass
5	9920.425	50.85	74.0	23.15	Peak	64.00	100	Horizontal	Pass
5**	9920.425	46.80	54.0	7.20	AV	64.00	100	Horizontal	Pass
6	12481.863	53.68	74.0	20.32	Peak	74.00	100	Horizontal	Pass
6**	12481.863	44.37	54.0	9.63	AV	74.00	100	Horizontal	Pass

8-DPSK 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	1411.000	42.95	74.0	31.05	Peak	147.00	300	Vertical	Pass
1**	1411.000	32.85	54.0	21.15	AV	147.00	300	Vertical	Pass
2	2480.000	88.71	74.0	-14.71	Peak	230.00	150	Vertical	N/A
2**	2480.000	88.56	54.0	-34.56	AV	230.00	150	Vertical	N/A
3	4960.250	48.52	74.0	25.48	Peak	145.00	100	Vertical	Pass
3**	4960.250	44.19	54.0	9.81	AV	145.00	100	Vertical	Pass
4	5327.500	50.72	74.0	23.28	Peak	125.00	100	Vertical	Pass
4**	5327.500	45.99	54.0	8.01	AV	125.00	100	Vertical	Pass
5	12507.513	54.22	74.0	19.78	Peak	45.00	200	Vertical	Pass
5**	12507.513	44.36	54.0	9.64	AV	45.00	200	Vertical	Pass
6	16973.100	56.27	74.0	17.73	Peak	60.00	300	Vertical	Pass
6**	16973.100	46.25	54.0	7.75	AV	60.00	300	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	2389.800	58.09	74.0	15.91	Peak	230.00	200	Vertical	Pass
1**	2389.800	43.53	54.0	10.47	AV	230.00	200	Vertical	Pass
2	2389.950	54.36	74.0	19.64	Peak	207.00	100	Vertical	Pass
2**	2389.950	43.14	54.0	10.86	AV	207.00	100	Vertical	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.71	74.0	12.29	Peak	230.00	200	Vertical	Pass
1**	2483.500	43.58	54.0	10.42	AV	230.00	200	Vertical	Pass
2	2484.055	62.34	74.0	11.66	Peak	230.00	100	Vertical	Pass
2**	2484.055	43.78	54.0	10.22	AV	230.00	100	Vertical	Pass

8-DPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.450	57.69	74.0	16.31	Peak	205.00	150	Vertical	Pass
1**	2389.450	43.23	54.0	10.77	AV	205.00	150	Vertical	Pass
2	2389.950	56.53	74.0	17.47	Peak	208.00	200	Vertical	Pass
2**	2389.950	42.98	54.0	11.02	AV	208.00	200	Vertical	Pass

8-DPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	61.49	74.0	12.51	Peak	232.00	200	Vertical	Pass
1**	2483.545	44.31	54.0	9.69	AV	232.00	200	Vertical	Pass
2	2484.550	61.98	74.0	12.02	Peak	230.00	150	Vertical	Pass
2**	2484.550	43.98	54.0	10.02	AV	230.00	150	Vertical	Pass

ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



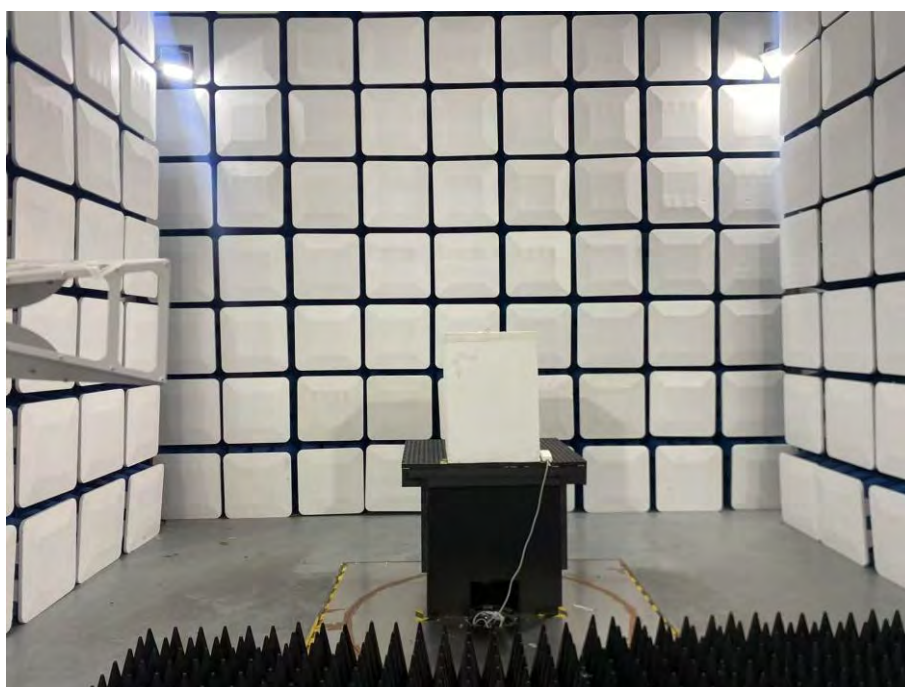
30MHz-1GHz



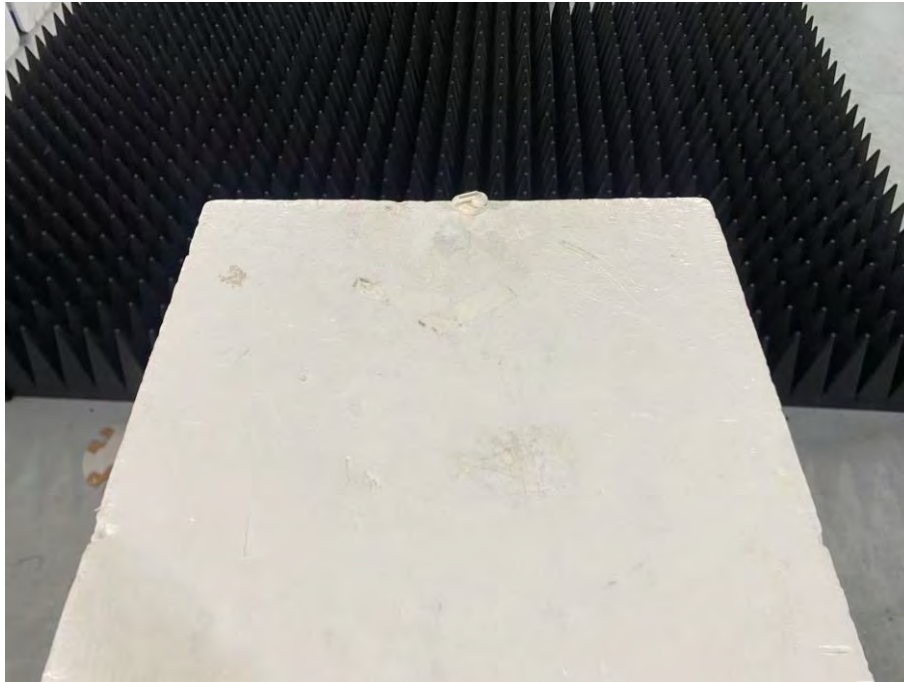
Close-up



Above 1GHz

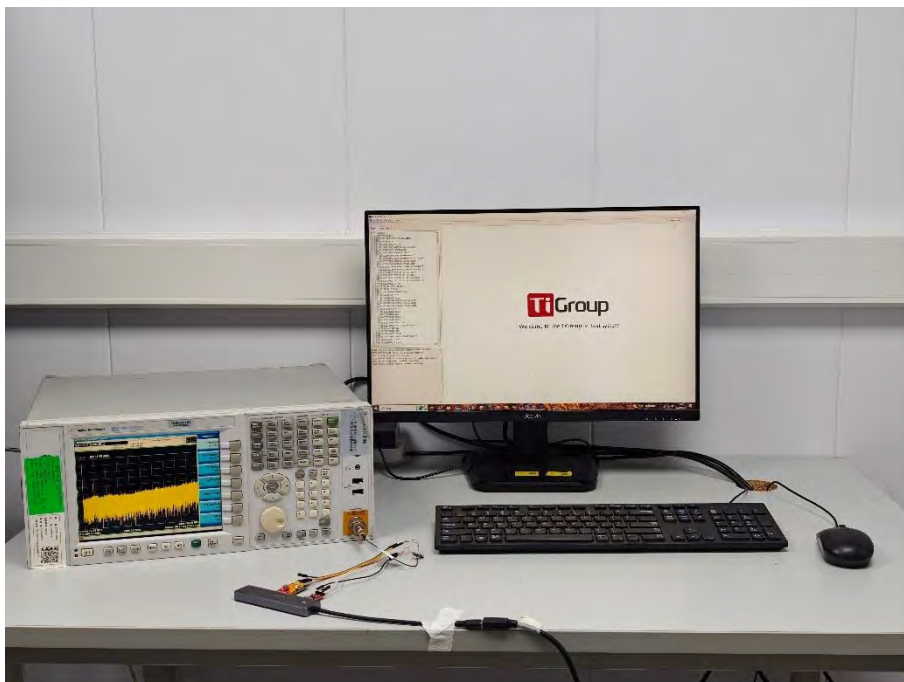


Close-up



2 Conducted Test Photo

Conducted Test



3 Conducted Emission

Photo 1

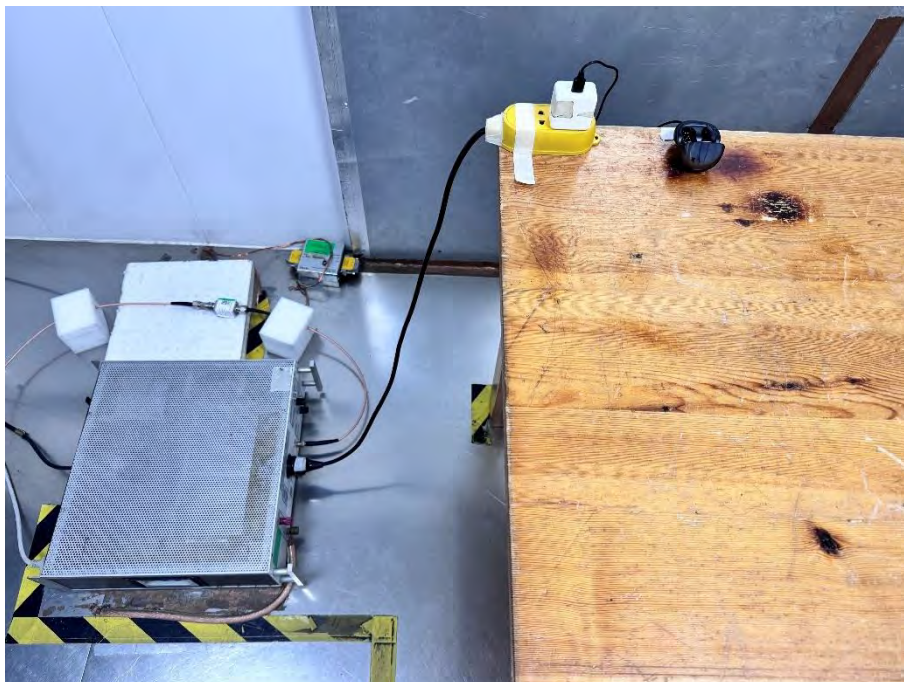


Photo 2



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





Accessory-Type-C Cable



Accessory-Charging Case

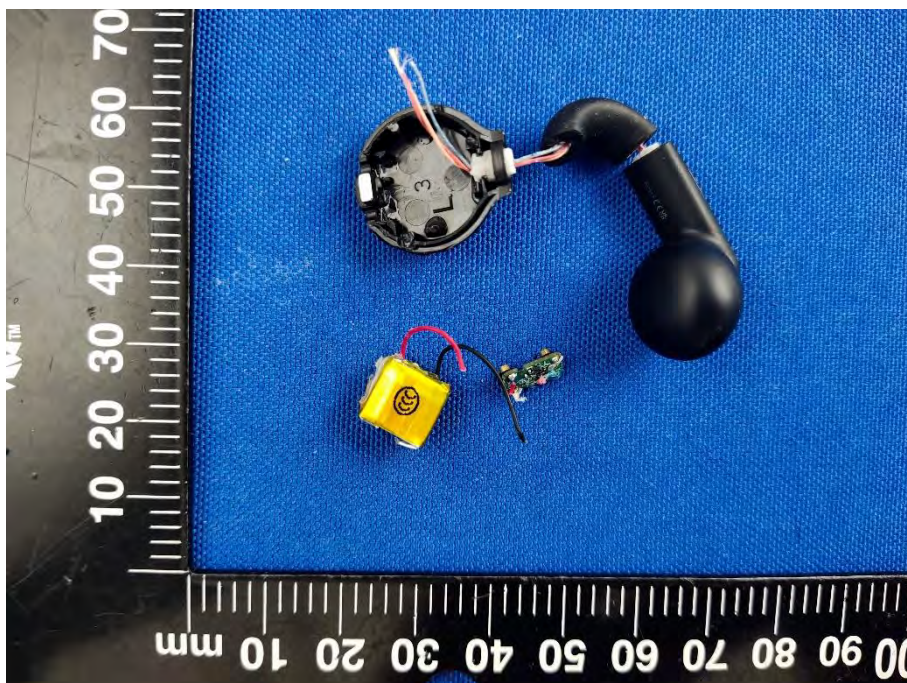


ANNEX C EUT INTERNAL PHOTOS

EUT UNCOVER VIEW 1



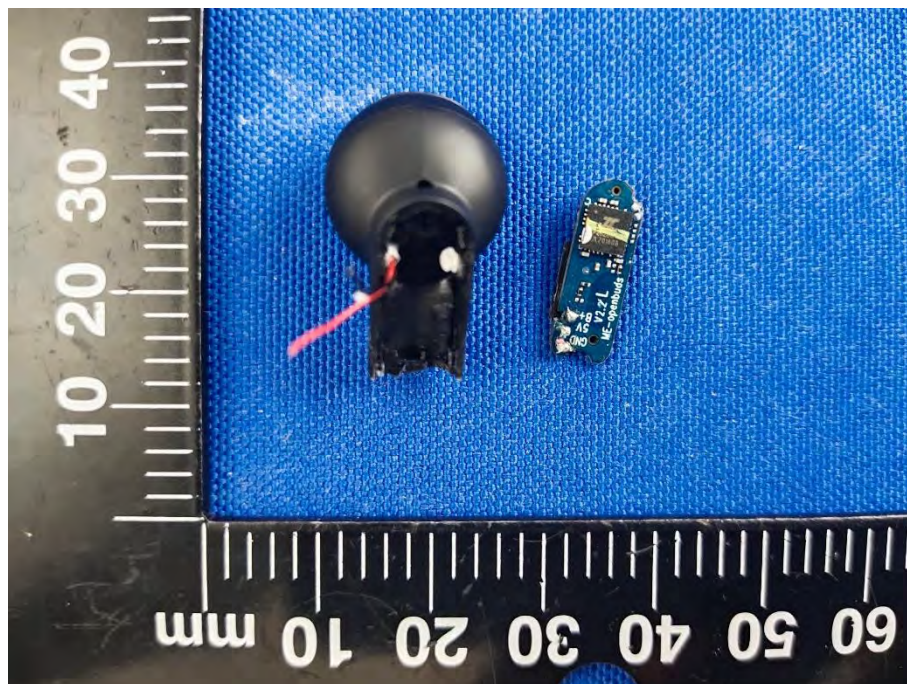
EUT UNCOVER VIEW 2



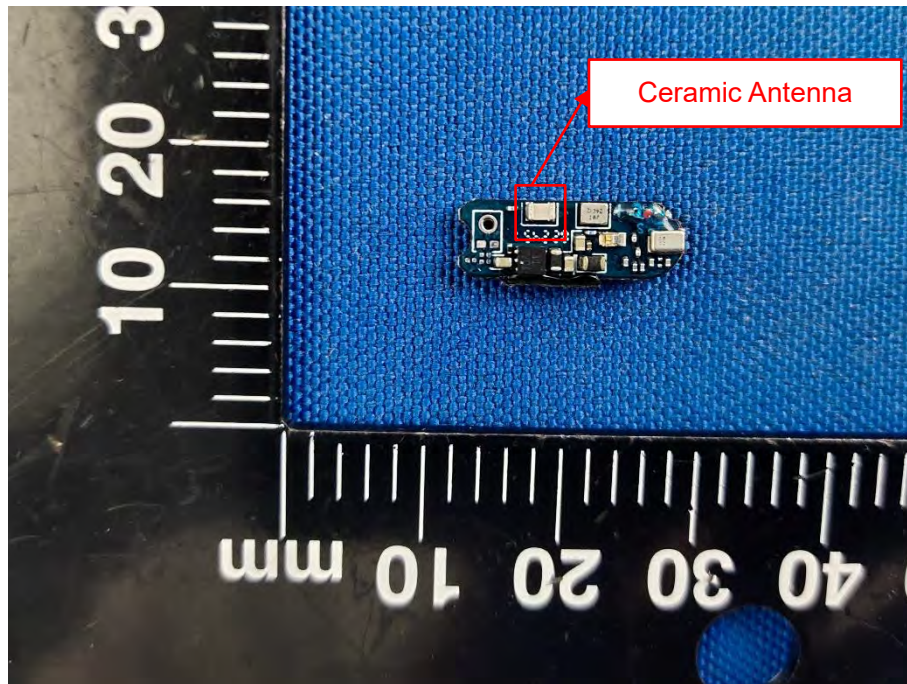
EUT UNCOVER VIEW 3



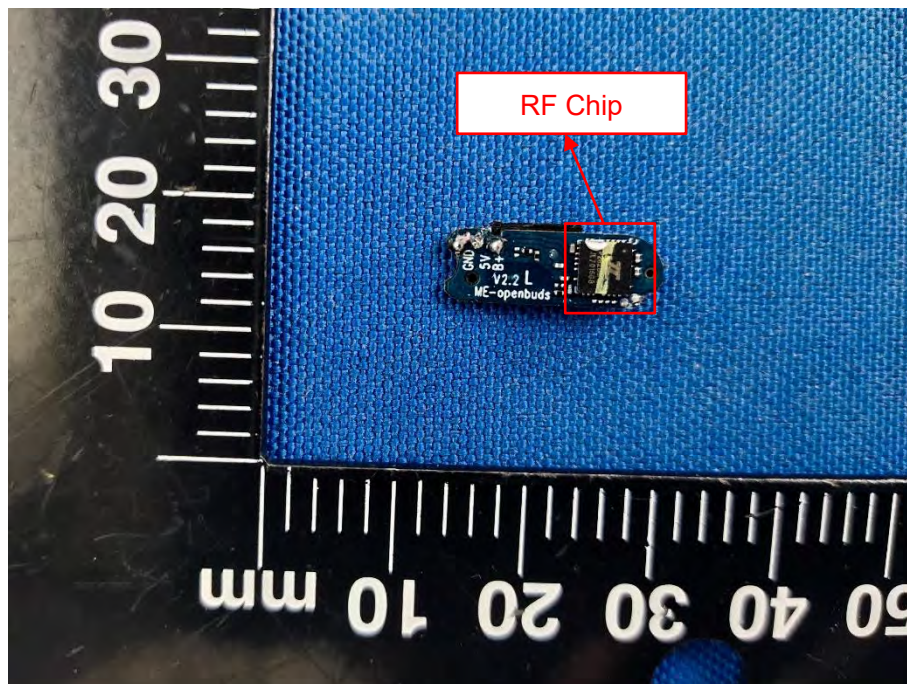
EUT UNCOVER VIEW 4



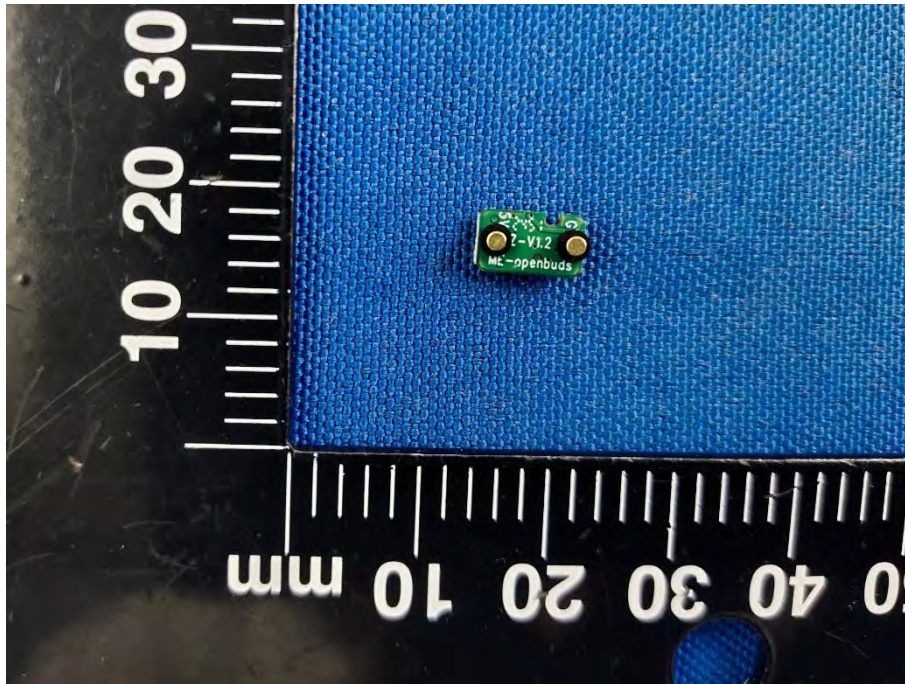
VIEW MAIN BOARD TOP VIEW



MAIN BOARD REAR



SECONDARY BOARD 1 TOP VIEW



SECONDARY BOARD 1 REAR VIEW



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--END OF REPORT--