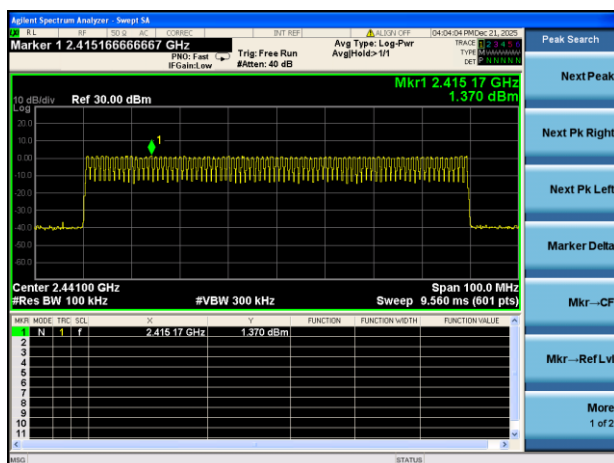
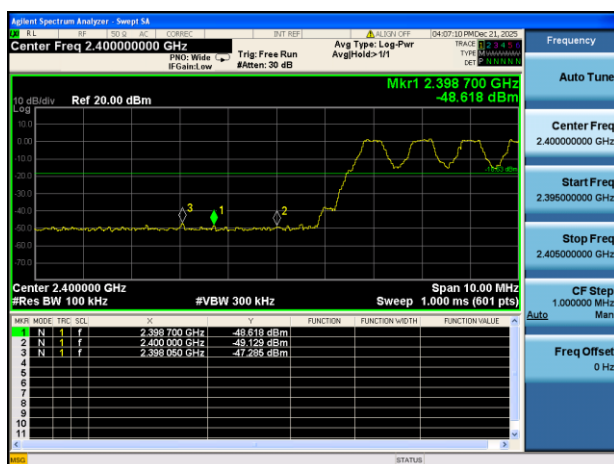


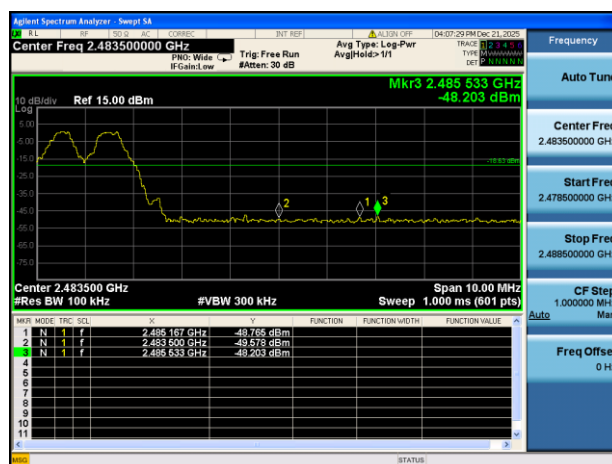
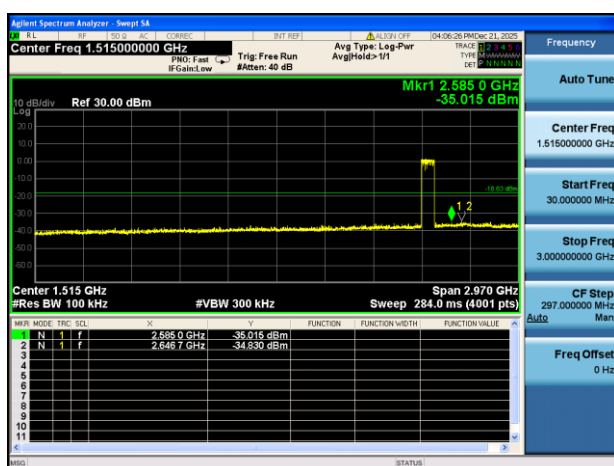
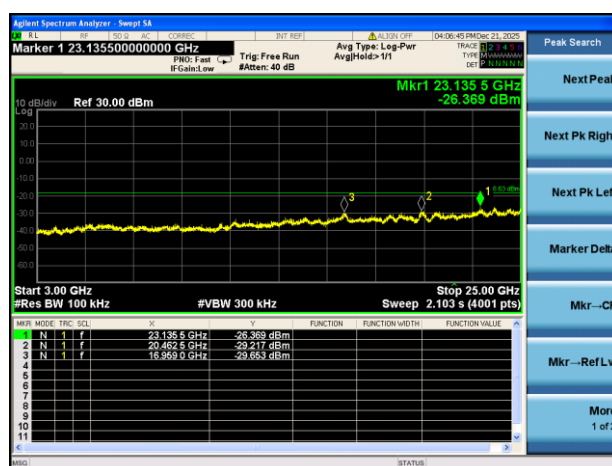
GFSK HOPPING, CARRIER LEVEL



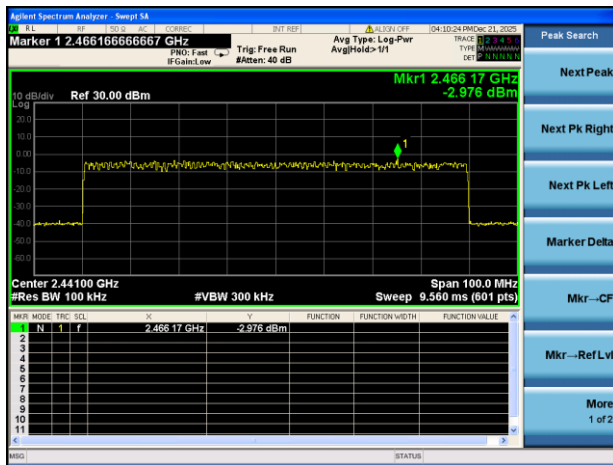
GFSK HOPPING BAND EDGE (LOW)



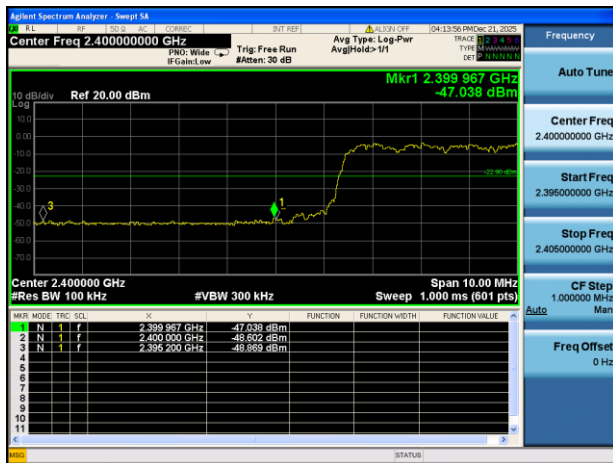
GFSK HOPPING BAND EDGE (HIGH)

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

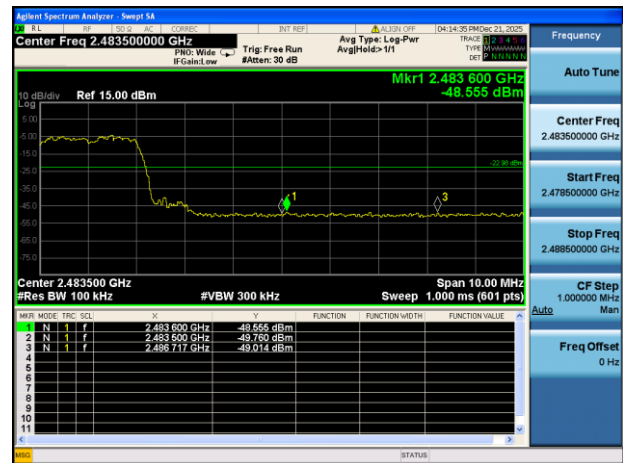
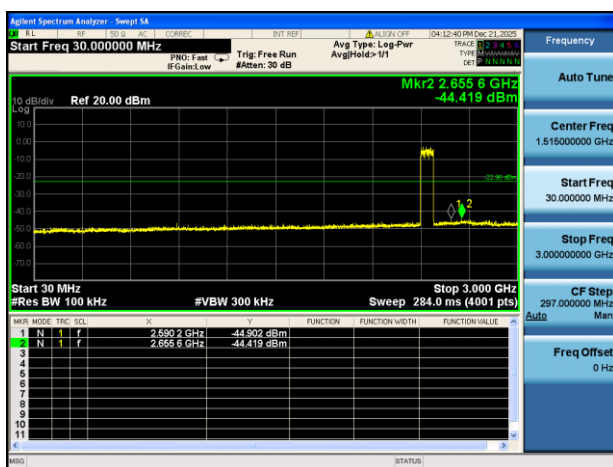
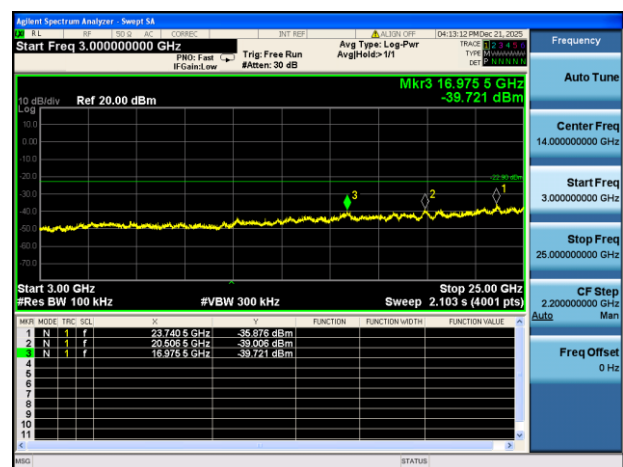
8-DPSK HOPPING, CARRIER LEVEL



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

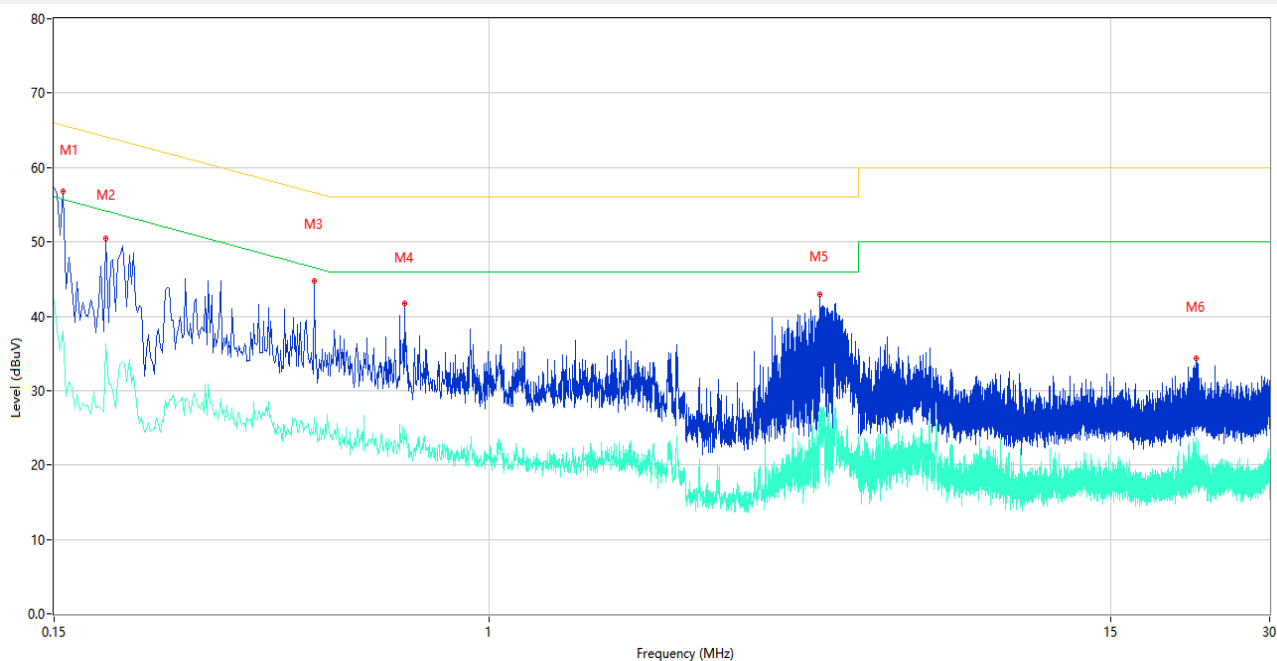
Note ¹: The EUT was tested in Link mode and the charging.

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)

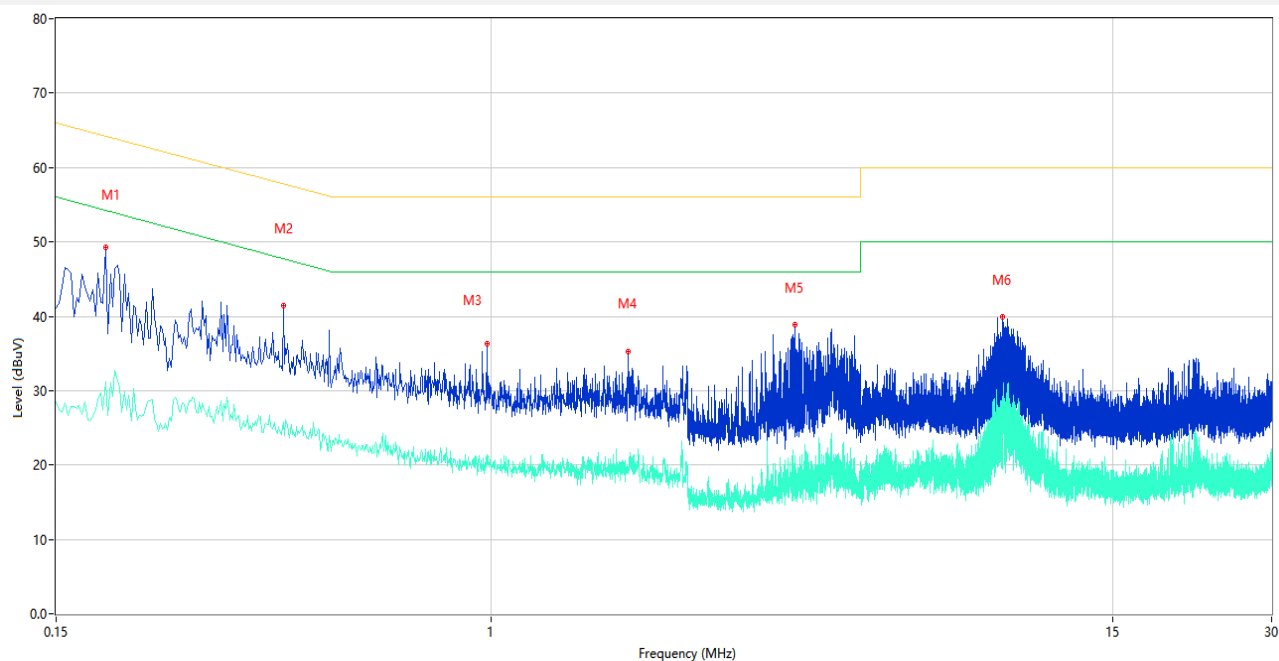
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	56.81	10.07	65.67	8.86	Peak	L	Pass
1**	0.156	37.91	10.07	55.67	17.76	AV	L	Pass
2	0.188	50.43	10.09	64.12	13.69	Peak	L	Pass
2**	0.188	36.28	10.09	54.12	17.84	AV	L	Pass
3	0.466	44.71	10.06	56.58	11.87	Peak	L	Pass
3**	0.466	26.38	10.06	46.58	20.20	AV	L	Pass
4	0.690	41.67	10.10	56.00	14.33	Peak	L	Pass
4**	0.690	24.72	10.10	46.00	21.28	AV	L	Pass
5	4.224	42.88	10.23	56.00	13.12	Peak	L	Pass
5**	4.224	27.23	10.23	46.00	18.77	AV	L	Pass
6	21.784	34.34	10.61	60.00	25.66	Peak	L	Pass
6**	21.784	23.36	10.61	50.00	26.64	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.186	49.27	10.08	64.21	14.94	Peak	N	Pass
1**	0.186	31.14	10.08	54.21	23.07	AV	N	Pass
2	0.404	41.42	10.07	57.77	16.35	Peak	N	Pass
2**	0.404	25.82	10.07	47.77	21.95	AV	N	Pass
3	0.980	36.28	10.10	56.00	19.72	Peak	N	Pass
3**	0.980	21.39	10.10	46.00	24.61	AV	N	Pass
4	1.812	35.33	10.13	56.00	20.67	Peak	N	Pass
4**	1.812	19.45	10.13	46.00	26.55	AV	N	Pass
5	3.764	38.87	10.20	56.00	17.13	Peak	N	Pass
5**	3.764	21.31	10.20	46.00	24.69	AV	N	Pass
6	9.300	39.96	10.34	60.00	20.04	Peak	N	Pass
6**	9.300	29.26	10.34	50.00	20.74	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 ($\mu\text{V/m}$)	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 ($\text{dB}\mu\text{V/m}$) = $20 \times \log[\text{Field Strength } (\mu\text{V/m})]$.
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 C63.10-2020, 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.

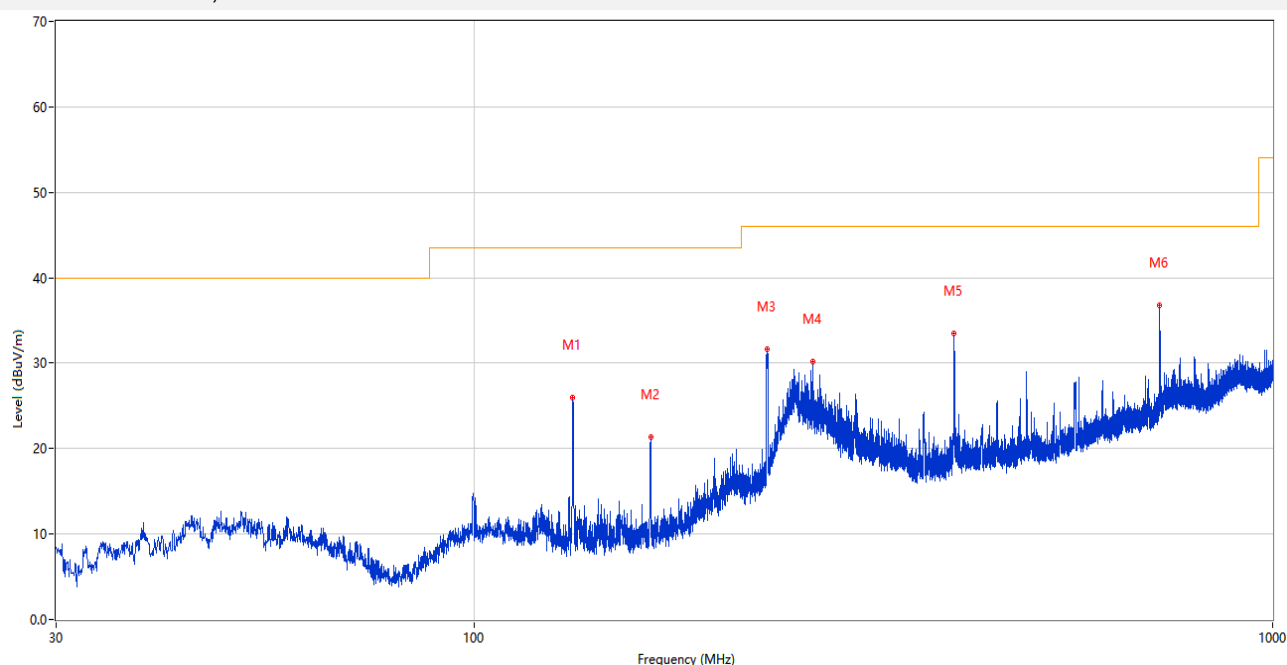
Note ³: The EUT was tested in Link mode and the charging.

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.

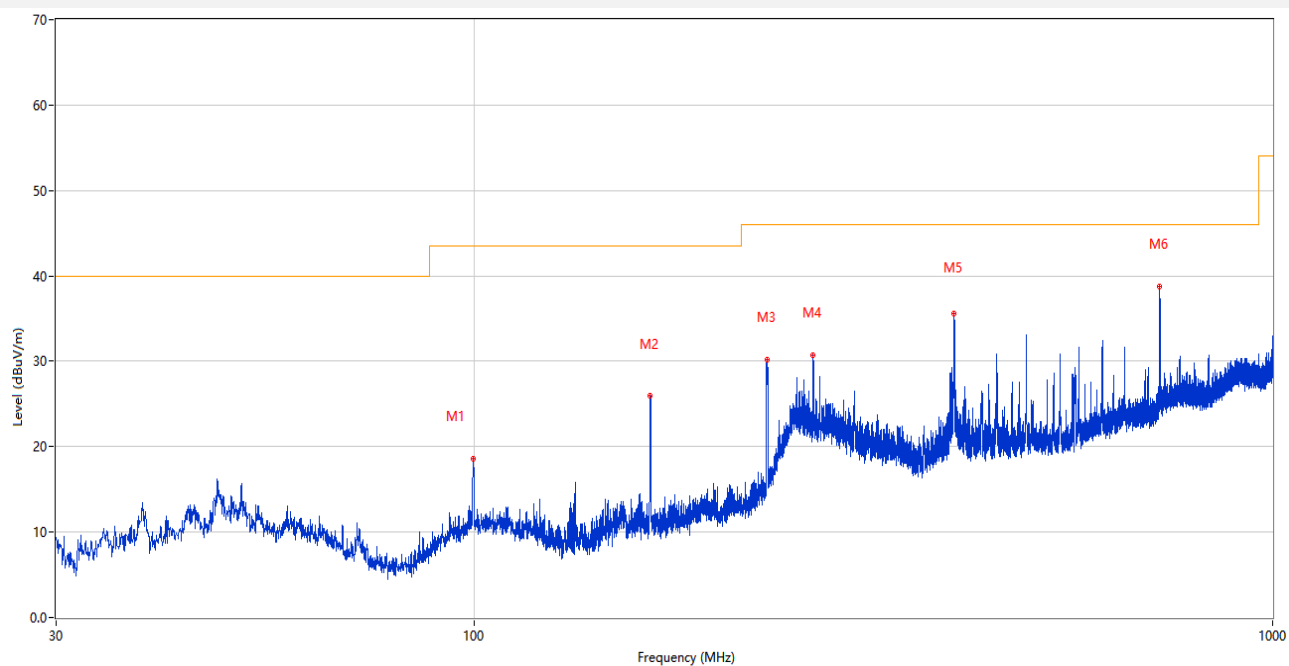
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	132.868	25.97	-29.64	43.5	17.53	Peak	113.00	200	Horizontal	Pass
2	166.576	21.37	-28.54	43.5	22.13	Peak	270.00	200	Horizontal	Pass
3	233.264	31.70	-24.90	46.0	14.30	Peak	212.00	100	Horizontal	Pass
4	265.710	30.22	-24.91	46.0	15.78	Peak	126.00	100	Horizontal	Pass
5	398.746	33.51	-20.72	46.0	12.49	Peak	88.00	100	Horizontal	Pass
6	722.143	36.73	-13.35	46.0	9.27	Peak	28.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



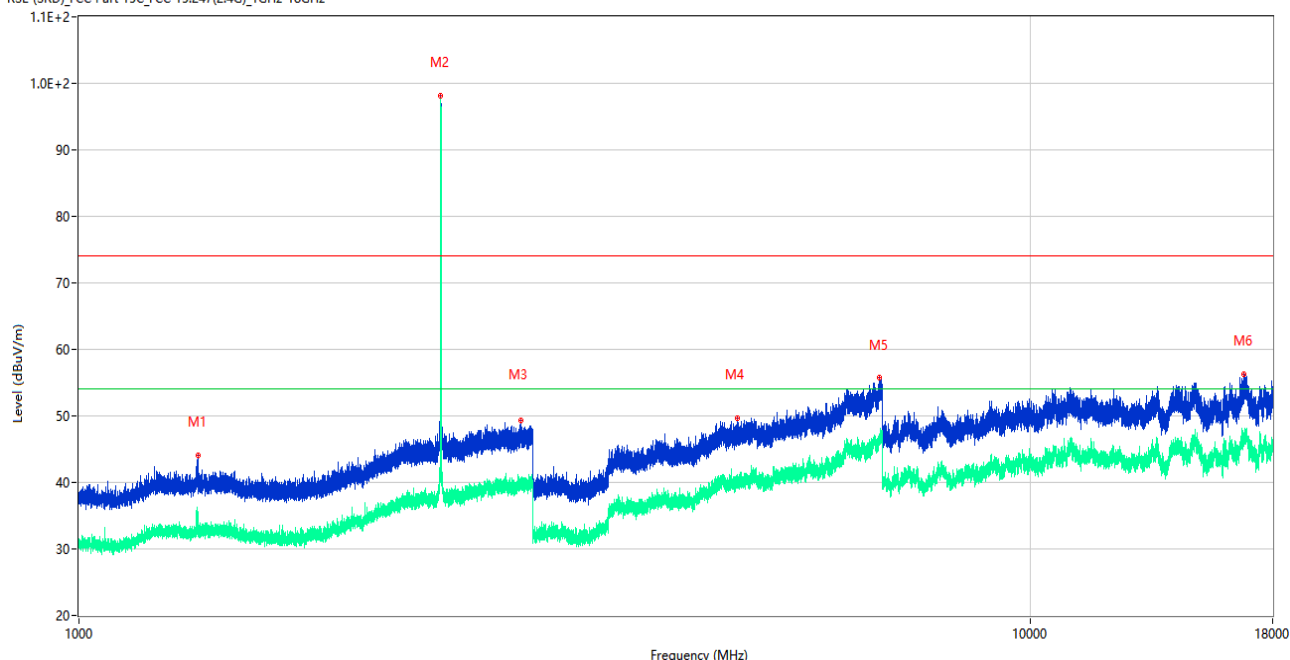
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	99.840	18.61	-25.80	43.5	24.89	Peak	183.00	100	Vertical	Pass
2	166.139	25.98	-28.56	43.5	17.52	Peak	0.00	100	Vertical	Pass
3	233.215	30.18	-24.90	46.0	15.82	Peak	180.00	200	Vertical	Pass
4	266.001	30.71	-24.93	46.0	15.29	Peak	35.00	200	Vertical	Pass
5	399.085	35.60	-20.73	46.0	10.40	Peak	58.00	200	Vertical	Pass
6	722.338	38.79	-13.36	46.0	7.21	Peak	60.00	200	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

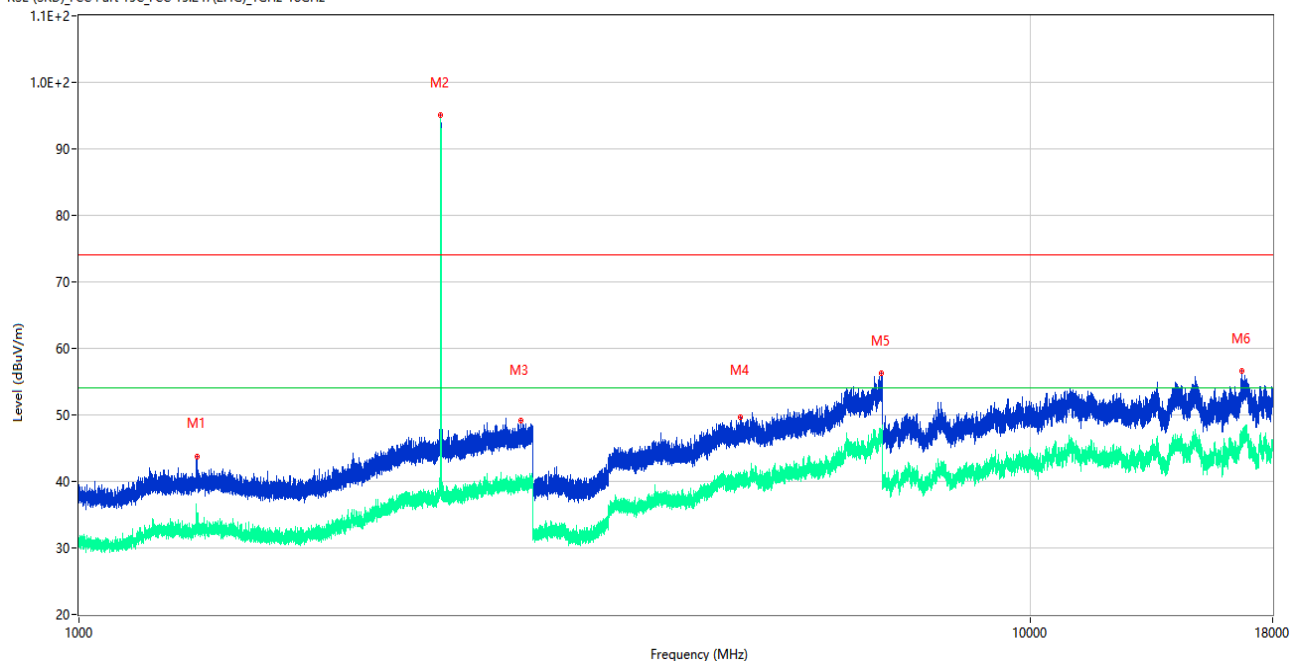
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.000	44.14	-17.69	74.0	29.86	Peak	29.00	300	Horizontal	Pass
1**	1333.000	34.29	-17.69	54.0	19.71	AV	29.00	300	Horizontal	Pass
2	2401.800	98.20	-13.91	74.0	-24.20	Peak	122.00	150	Horizontal	N/A
2**	2401.800	97.07	-13.91	54.0	-43.07	AV	122.00	150	Horizontal	N/A
3	2914.200	49.30	-11.04	74.0	24.70	Peak	360.00	100	Horizontal	Pass
3**	2914.200	39.71	-11.04	54.0	14.29	AV	360.00	100	Horizontal	Pass
4	4928.800	49.65	-6.91	74.0	24.35	Peak	69.00	100	Horizontal	Pass
4**	4928.800	40.04	-6.91	54.0	13.96	AV	69.00	100	Horizontal	Pass
5	6948.600	55.74	-0.89	74.0	18.26	Peak	181.00	200	Horizontal	Pass
5**	6948.600	47.00	-0.89	54.0	7.00	AV	181.00	200	Horizontal	Pass
6	16780.426	56.32	5.90	74.0	17.68	Peak	360.00	300	Horizontal	Pass
6**	16780.426	46.47	5.90	54.0	7.53	AV	360.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

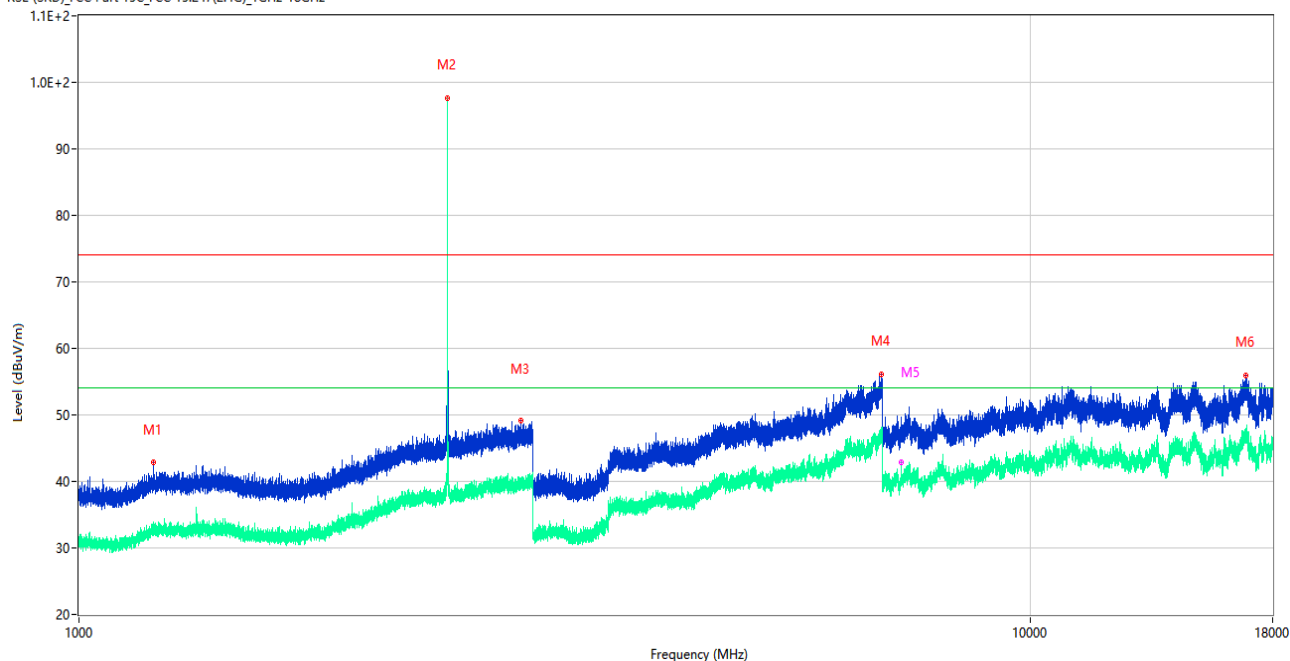
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.300	43.77	-17.78	74.0	30.23	Peak	100.00	300	Vertical	Pass
1**	1331.300	34.95	-17.78	54.0	19.05	AV	100.00	300	Vertical	Pass
2	2401.800	95.00	-13.91	74.0	-21.00	Peak	88.00	200	Vertical	N/A
2**	2401.800	93.66	-13.91	54.0	-39.66	AV	88.00	200	Vertical	N/A
3	2915.900	49.24	-11.28	74.0	24.76	Peak	266.00	200	Vertical	Pass
3**	2915.900	39.89	-11.28	54.0	14.11	AV	266.00	200	Vertical	Pass
4	4965.200	49.58	-6.19	74.0	24.42	Peak	245.00	300	Vertical	Pass
4**	4965.200	40.46	-6.19	54.0	13.54	AV	245.00	300	Vertical	Pass
5	6971.400	56.23	-1.19	74.0	17.77	Peak	225.00	100	Vertical	Pass
5**	6971.400	46.53	-1.19	54.0	7.47	AV	225.00	100	Vertical	Pass
6	16723.463	56.53	6.80	74.0	17.47	Peak	360.00	300	Vertical	Pass
6**	16723.463	46.78	6.80	54.0	7.22	AV	360.00	300	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

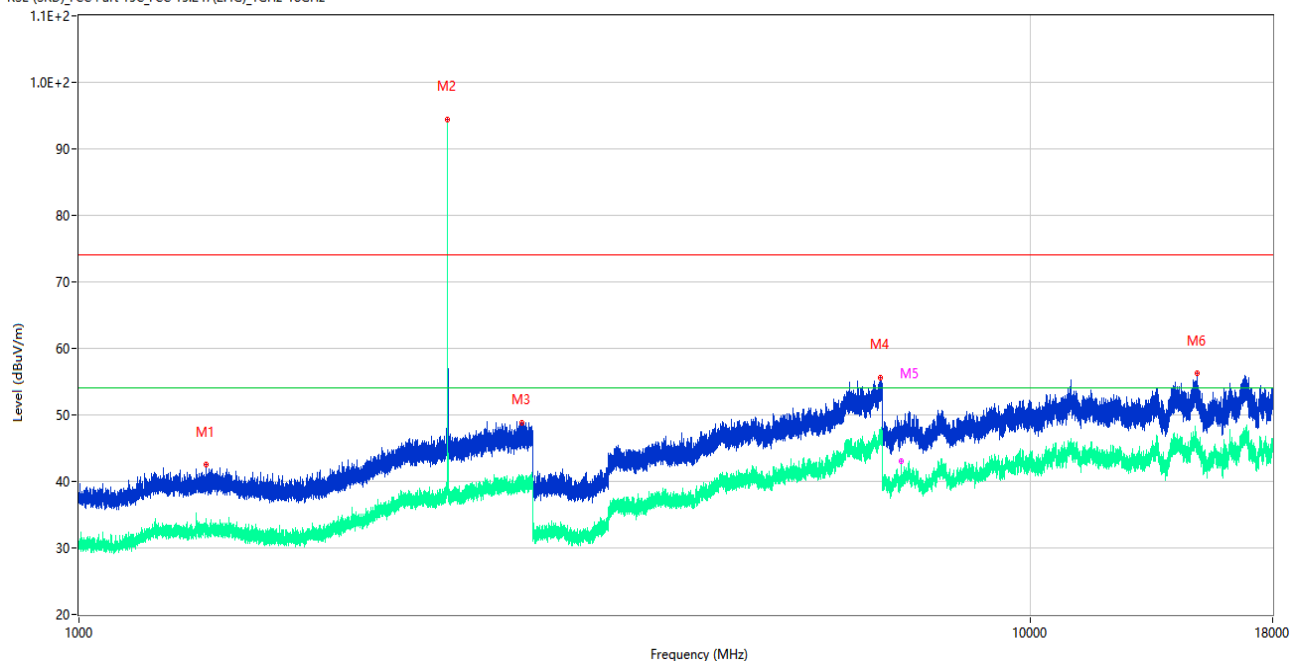
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.800	42.87	-17.56	74.0	31.13	Peak	25.00	300	Horizontal	Pass
1**	1198.800	33.95	-17.56	54.0	20.05	AV	25.00	300	Horizontal	Pass
2	2441.200	97.71	-13.31	74.0	-23.71	Peak	117.00	150	Horizontal	N/A
2**	2441.200	97.56	-13.31	54.0	-43.56	AV	117.00	150	Horizontal	N/A
3	2916.900	49.08	-11.17	74.0	24.92	Peak	8.00	150	Horizontal	Pass
3**	2916.900	40.15	-11.17	54.0	13.85	AV	8.00	150	Horizontal	Pass
4	6986.600	56.17	-1.65	74.0	17.83	Peak	-3.00	400	Horizontal	Pass
4**	6986.600	47.19	-1.65	54.0	6.81	AV	-3.00	400	Horizontal	Pass
5	7323.150	48.65	-1.93	74.0	25.35	Peak	361.00	100	Horizontal	Pass
5**	7323.150	42.81	-1.93	54.0	11.19	AV	361.00	100	Horizontal	Pass
6	16872.037	55.94	6.52	74.0	18.06	Peak	76.00	400	Horizontal	Pass
6**	16872.037	46.54	6.52	54.0	7.46	AV	76.00	400	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

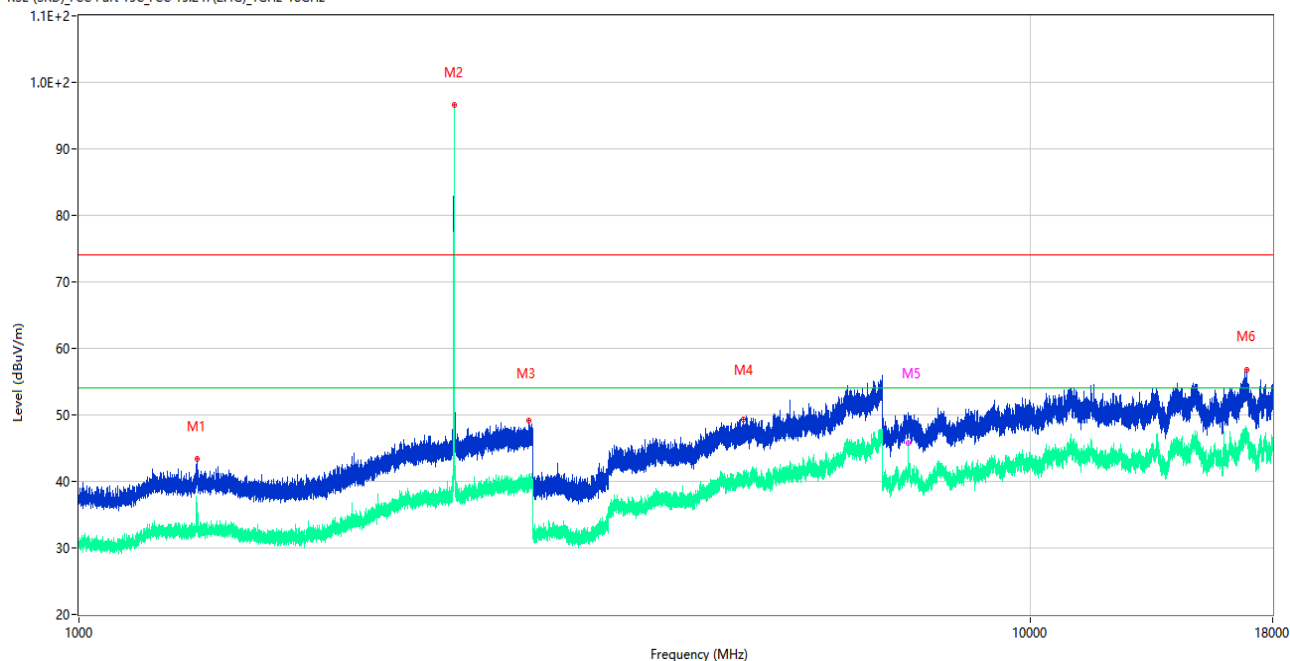
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1360.400	42.47	-17.45	74.0	31.53	Peak	258.00	200	Vertical	Pass
1**	1360.400	31.95	-17.45	54.0	22.05	AV	258.00	200	Vertical	Pass
2	2441.200	94.41	-13.31	74.0	-20.41	Peak	99.00	200	Vertical	N/A
2**	2441.200	93.93	-13.31	54.0	-39.93	AV	99.00	200	Vertical	N/A
3	2922.400	48.89	-11.37	74.0	25.11	Peak	348.00	150	Vertical	Pass
3**	2922.400	40.57	-11.37	54.0	13.43	AV	348.00	150	Vertical	Pass
4	6970.200	55.61	-1.03	74.0	18.39	Peak	268.00	400	Vertical	Pass
4**	6970.200	46.99	-1.03	54.0	7.01	AV	268.00	400	Vertical	Pass
5	7323.438	47.49	-1.93	74.0	26.51	Peak	63.00	150	Vertical	Pass
5**	7323.438	43.05	-1.93	54.0	10.95	AV	63.00	150	Vertical	Pass
6	14979.675	56.23	3.55	74.0	17.77	Peak	110.00	100	Vertical	Pass
6**	14979.675	45.99	3.55	54.0	8.01	AV	110.00	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

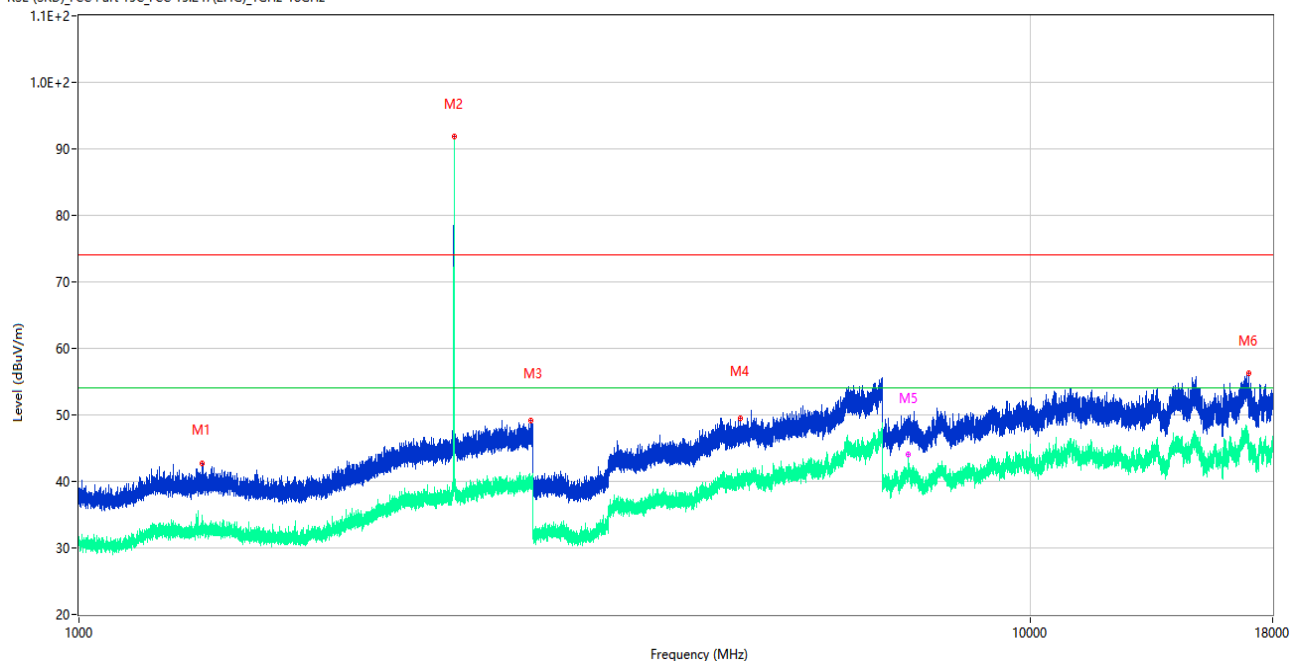
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.100	43.38	-17.80	74.0	30.62	Peak	44.00	100	Horizontal	Pass
1**	1331.100	33.57	-17.80	54.0	20.43	AV	44.00	100	Horizontal	Pass
2	2479.800	96.56	-13.54	74.0	-22.56	Peak	115.00	150	Horizontal	N/A
2**	2479.800	95.80	-13.54	54.0	-41.80	AV	115.00	150	Horizontal	N/A
3	2975.300	49.12	-10.65	74.0	24.88	Peak	327.00	200	Horizontal	Pass
3**	2975.300	39.80	-10.65	54.0	14.20	AV	327.00	200	Horizontal	Pass
4	4992.000	49.24	-6.88	74.0	24.76	Peak	-3.00	400	Horizontal	Pass
4**	4992.000	39.65	-6.88	54.0	14.35	AV	-3.00	400	Horizontal	Pass
5	7440.450	48.74	-1.56	74.0	25.26	Peak	27.00	150	Horizontal	Pass
5**	7440.450	45.74	-1.56	54.0	8.26	AV	27.00	150	Horizontal	Pass
6	16922.963	56.82	6.61	74.0	17.18	Peak	39.00	400	Horizontal	Pass
6**	16922.963	47.05	6.61	54.0	6.95	AV	39.00	400	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

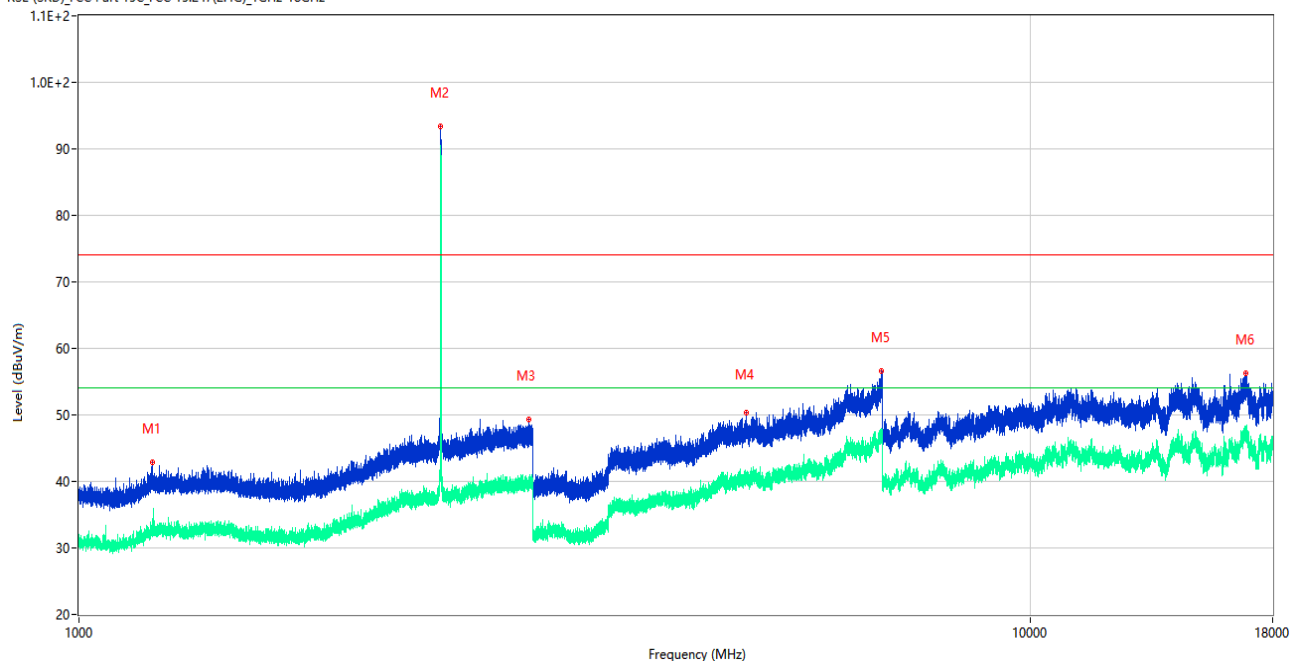
RSE (SRD), FCC Part 15C, FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1346.700	42.75	-17.56	74.0	31.25	Peak	283.00	100	Vertical	Pass
1**	1346.700	32.88	-17.56	54.0	21.12	AV	283.00	100	Vertical	Pass
2	2480.200	91.79	-13.56	74.0	-17.79	Peak	103.00	100	Vertical	N/A
2**	2480.200	91.44	-13.56	54.0	-37.44	AV	103.00	100	Vertical	N/A
3	2987.400	49.18	-11.21	74.0	24.82	Peak	64.00	100	Vertical	Pass
3**	2987.400	39.52	-11.21	54.0	14.48	AV	64.00	100	Vertical	Pass
4	4958.200	49.51	-6.83	74.0	24.49	Peak	1.00	400	Vertical	Pass
4**	4958.200	39.86	-6.83	54.0	14.14	AV	1.00	400	Vertical	Pass
5	7440.163	48.93	-1.56	74.0	25.07	Peak	289.00	150	Vertical	Pass
5**	7440.163	44.04	-1.56	54.0	9.96	AV	289.00	150	Vertical	Pass
6	16975.199	56.26	6.49	74.0	17.74	Peak	106.00	100	Vertical	Pass
6**	16975.199	46.65	6.49	54.0	7.35	AV	106.00	100	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

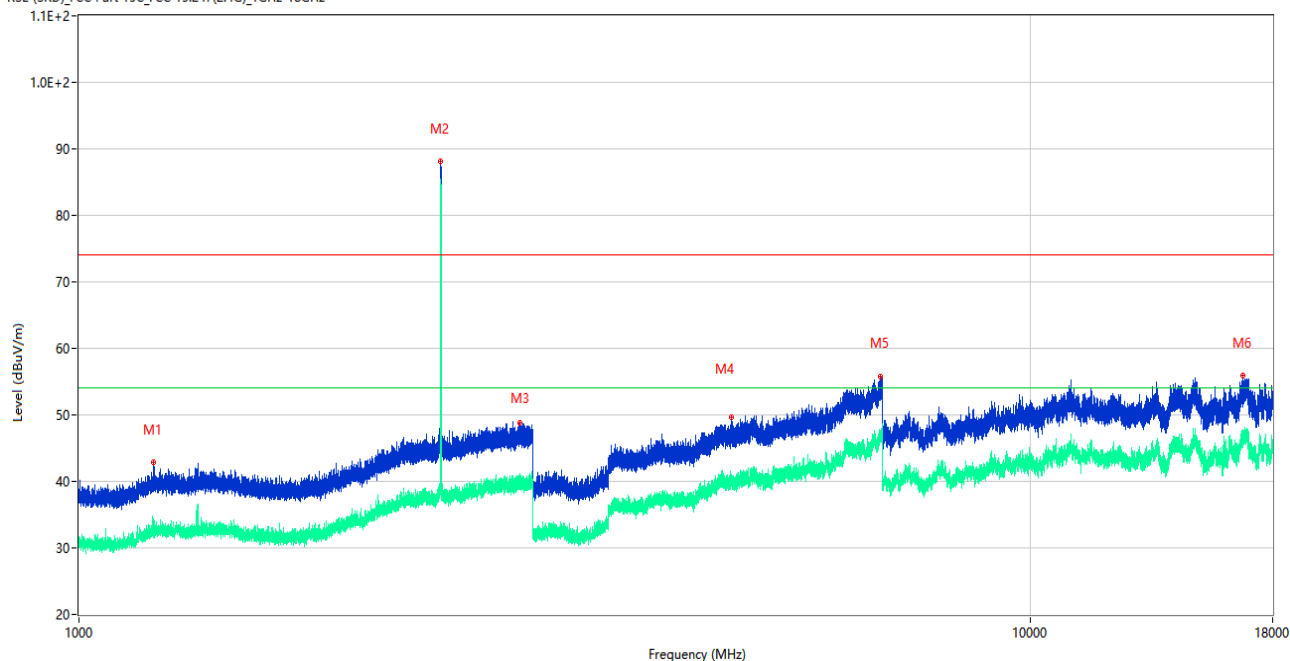
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.100	42.91	-17.59	74.0	31.09	Peak	33.00	100	Horizontal	Pass
1**	1196.100	32.96	-17.59	54.0	21.04	AV	33.00	100	Horizontal	Pass
2	2401.900	93.40	-13.97	74.0	-19.40	Peak	79.00	150	Horizontal	N/A
2**	2401.900	89.95	-13.97	54.0	-35.95	AV	79.00	150	Horizontal	N/A
3	2973.400	49.28	-10.93	74.0	24.72	Peak	208.00	150	Horizontal	Pass
3**	2973.400	40.19	-10.93	54.0	13.81	AV	208.00	150	Horizontal	Pass
4	5026.600	50.27	-6.43	74.0	23.73	Peak	101.00	150	Horizontal	Pass
4**	5026.600	41.06	-6.43	54.0	12.94	AV	101.00	150	Horizontal	Pass
5	6972.800	56.64	-0.92	74.0	17.36	Peak	341.00	100	Horizontal	Pass
5**	6972.800	46.69	-0.92	54.0	7.31	AV	341.00	100	Horizontal	Pass
6	16851.825	56.33	6.55	74.0	17.67	Peak	248.00	400	Horizontal	Pass
6**	16851.825	48.17	6.55	54.0	5.83	AV	248.00	400	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

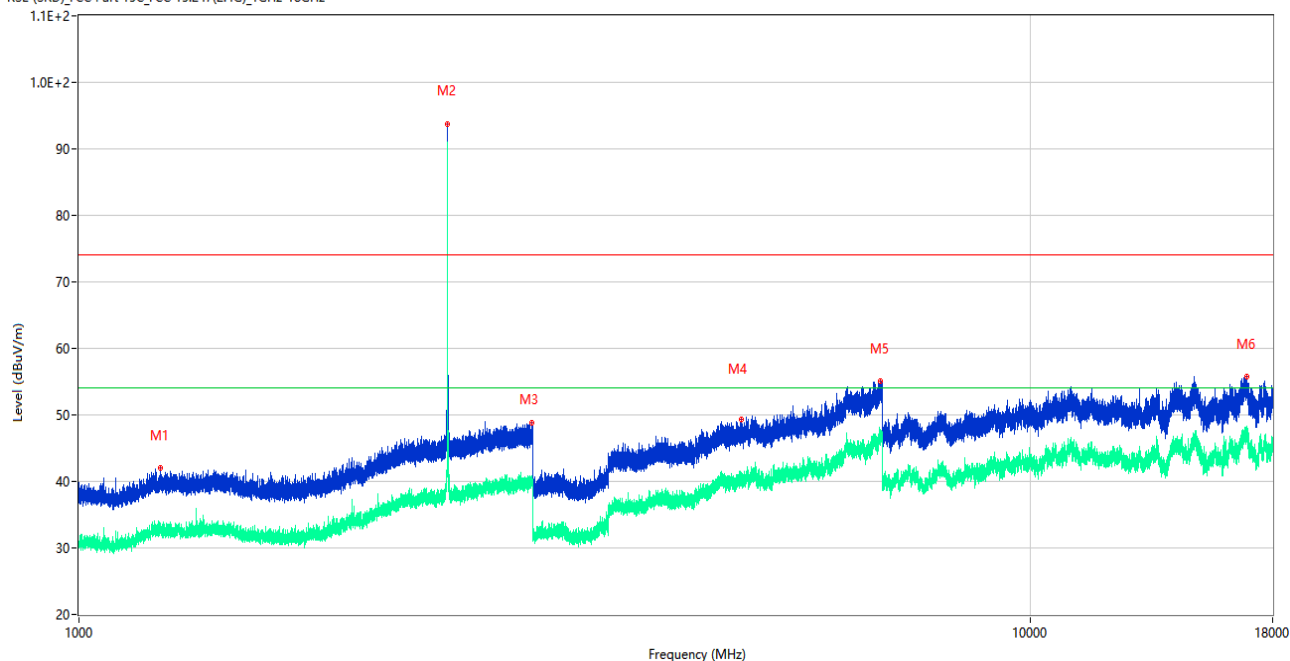
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.600	42.80	-17.77	74.0	31.20	Peak	133.00	100	Vertical	Pass
1**	1196.600	33.21	-17.77	54.0	20.79	AV	133.00	100	Vertical	Pass
2	2401.700	88.10	-13.85	74.0	-14.10	Peak	121.00	100	Vertical	N/A
2**	2401.700	83.65	-13.85	54.0	-29.65	AV	121.00	100	Vertical	N/A
3	2910.100	48.79	-11.45	74.0	25.21	Peak	167.00	100	Vertical	Pass
3**	2910.100	39.33	-11.45	54.0	14.67	AV	167.00	100	Vertical	Pass
4	4857.400	49.66	-6.54	74.0	24.34	Peak	341.00	100	Vertical	Pass
4**	4857.400	40.07	-6.54	54.0	13.93	AV	341.00	100	Vertical	Pass
5	6964.200	55.81	-1.89	74.0	18.19	Peak	36.00	400	Vertical	Pass
5**	6964.200	46.09	-1.89	54.0	7.91	AV	36.00	400	Vertical	Pass
6	16761.000	55.91	6.05	74.0	18.09	Peak	131.00	400	Vertical	Pass
6**	16761.000	46.57	6.05	54.0	7.43	AV	131.00	400	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

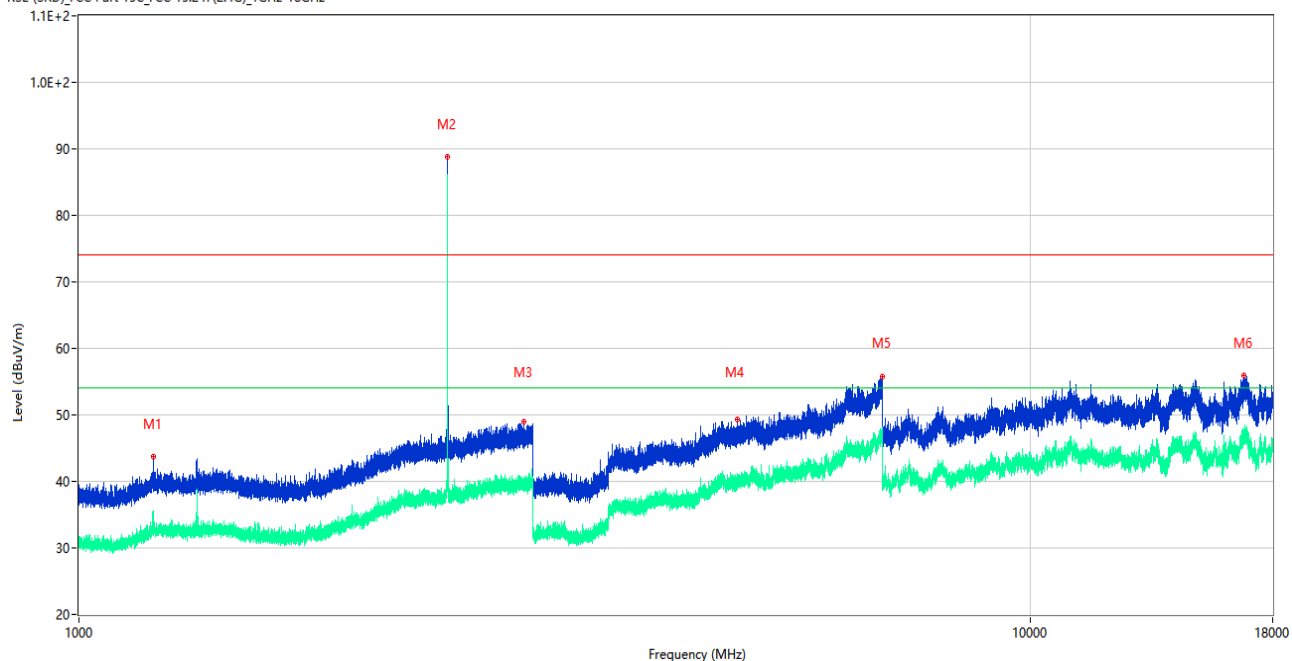
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1217.200	42.03	-17.53	74.0	31.97	Peak	120.00	300	Horizontal	Pass
1**	1217.200	33.34	-17.53	54.0	20.66	AV	120.00	300	Horizontal	Pass
2	2441.100	93.75	-13.39	74.0	-19.75	Peak	74.00	200	Horizontal	N/A
2**	2441.100	91.05	-13.39	54.0	-37.05	AV	74.00	200	Horizontal	N/A
3	2992.300	48.80	-11.18	74.0	25.20	Peak	222.00	200	Horizontal	Pass
3**	2992.300	39.83	-11.18	54.0	14.17	AV	222.00	200	Horizontal	Pass
4	4971.800	49.38	-6.54	74.0	24.62	Peak	123.00	400	Horizontal	Pass
4**	4971.800	40.27	-6.54	54.0	13.73	AV	123.00	400	Horizontal	Pass
5	6968.600	55.07	-1.10	74.0	18.93	Peak	81.00	200	Horizontal	Pass
5**	6968.600	46.70	-1.10	54.0	7.30	AV	81.00	200	Horizontal	Pass
6	16911.150	55.75	7.01	74.0	18.25	Peak	167.00	300	Horizontal	Pass
6**	16911.150	46.92	7.01	54.0	7.08	AV	167.00	300	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

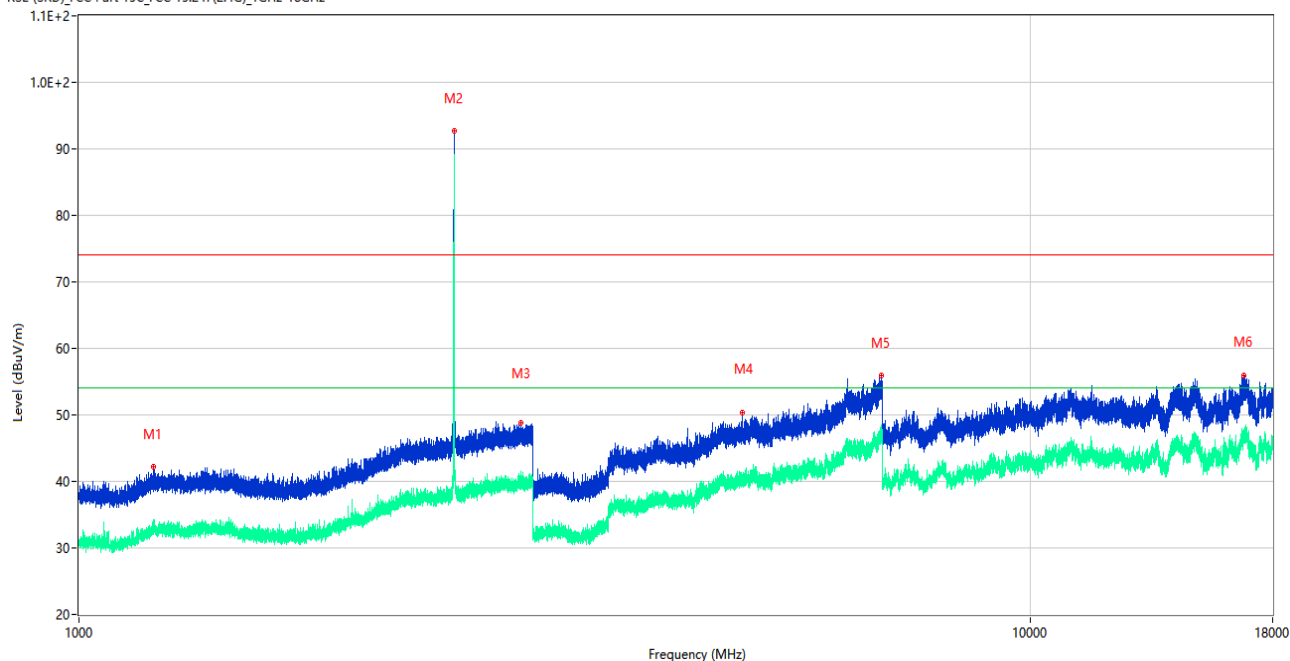
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.200	43.66	-17.56	74.0	30.34	Peak	141.00	100	Vertical	Pass
1**	1198.200	32.16	-17.56	54.0	21.84	AV	141.00	100	Vertical	Pass
2	2441.200	88.81	-13.31	74.0	-14.81	Peak	125.00	150	Vertical	N/A
2**	2441.200	85.95	-13.31	54.0	-31.95	AV	125.00	150	Vertical	N/A
3	2934.200	49.03	-11.95	74.0	24.97	Peak	99.00	150	Vertical	Pass
3**	2934.200	39.49	-11.95	54.0	14.51	AV	99.00	150	Vertical	Pass
4	4922.800	49.31	-6.52	74.0	24.69	Peak	280.00	400	Vertical	Pass
4**	4922.800	39.87	-6.52	54.0	14.13	AV	280.00	400	Vertical	Pass
5	6999.800	55.79	-1.08	74.0	18.21	Peak	360.00	400	Vertical	Pass
5**	6999.800	46.69	-1.08	54.0	7.31	AV	360.00	400	Vertical	Pass
6	16780.687	55.91	5.90	74.0	18.09	Peak	119.00	400	Vertical	Pass
6**	16780.687	46.71	5.90	54.0	7.29	AV	119.00	400	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

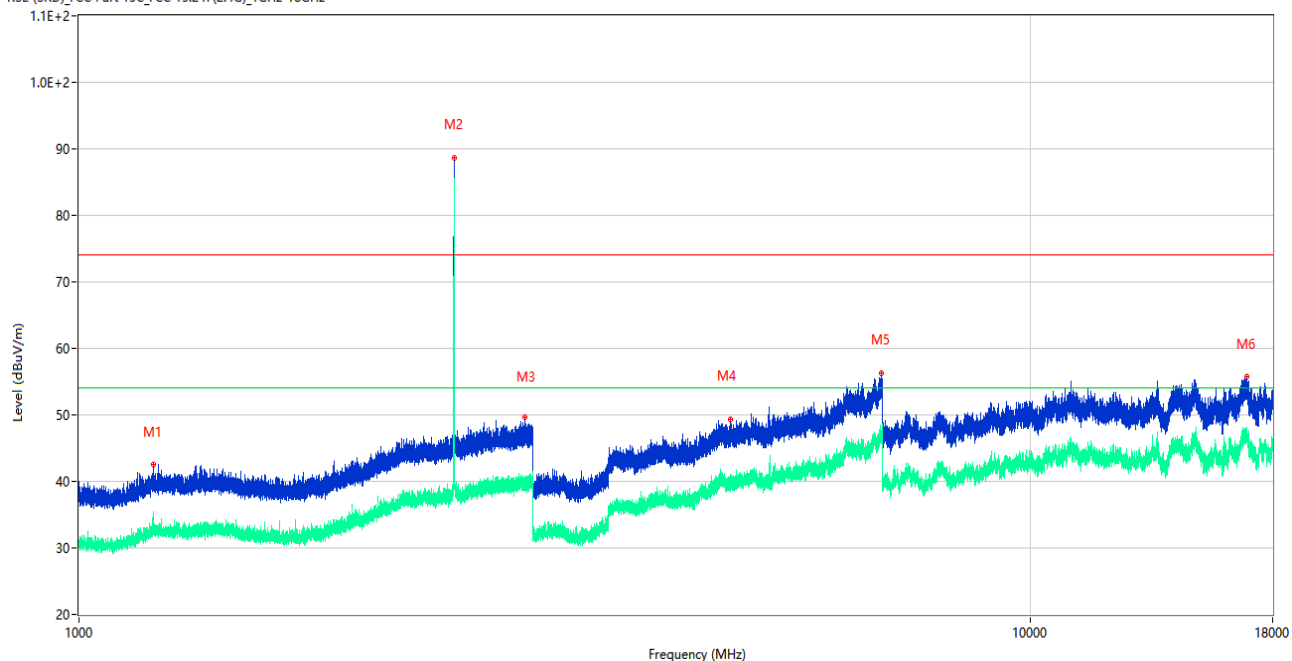
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.000	42.12	-17.51	74.0	31.88	Peak	38.00	400	Horizontal	Pass
1**	1199.000	33.98	-17.51	54.0	20.02	AV	38.00	400	Horizontal	Pass
2	2480.000	92.63	-13.55	74.0	-18.63	Peak	295.00	150	Horizontal	N/A
2**	2480.000	89.05	-13.55	54.0	-35.05	AV	295.00	150	Horizontal	N/A
3	2914.400	48.81	-11.08	74.0	25.19	Peak	0.00	150	Horizontal	Pass
3**	2914.400	39.88	-11.08	54.0	14.12	AV	0.00	150	Horizontal	Pass
4	4985.200	50.28	-7.24	74.0	23.72	Peak	230.00	200	Horizontal	Pass
4**	4985.200	39.69	-7.24	54.0	14.31	AV	230.00	200	Horizontal	Pass
5	6976.000	55.90	-1.04	74.0	18.10	Peak	29.00	200	Horizontal	Pass
5**	6976.000	47.27	-1.04	54.0	6.73	AV	29.00	200	Horizontal	Pass
6	16772.551	55.97	6.01	74.0	18.03	Peak	360.00	100	Horizontal	Pass
6**	16772.551	47.14	6.01	54.0	6.86	AV	360.00	100	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.700	42.52	-17.50	74.0	31.48	Peak	134.00	200	Vertical	Pass
1**	1197.700	33.59	-17.50	54.0	20.41	AV	134.00	200	Vertical	Pass
2	2480.000	88.68	-13.55	74.0	-14.68	Peak	19.00	100	Vertical	N/A
2**	2480.000	85.16	-13.55	54.0	-31.16	AV	19.00	100	Vertical	N/A
3	2947.200	49.74	-11.60	74.0	24.26	Peak	360.00	200	Vertical	Pass
3**	2947.200	38.97	-11.60	54.0	15.03	AV	360.00	200	Vertical	Pass
4	4844.600	49.36	-6.45	74.0	24.64	Peak	321.00	300	Vertical	Pass
4**	4844.600	39.55	-6.45	54.0	14.45	AV	321.00	300	Vertical	Pass
5	6984.200	56.33	-1.44	74.0	17.67	Peak	0.00	400	Vertical	Pass
5**	6984.200	46.61	-1.44	54.0	7.39	AV	0.00	400	Vertical	Pass
6	16899.599	55.74	7.08	74.0	18.26	Peak	136.00	100	Vertical	Pass
6**	16899.599	46.43	7.08	54.0	7.57	AV	136.00	100	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.

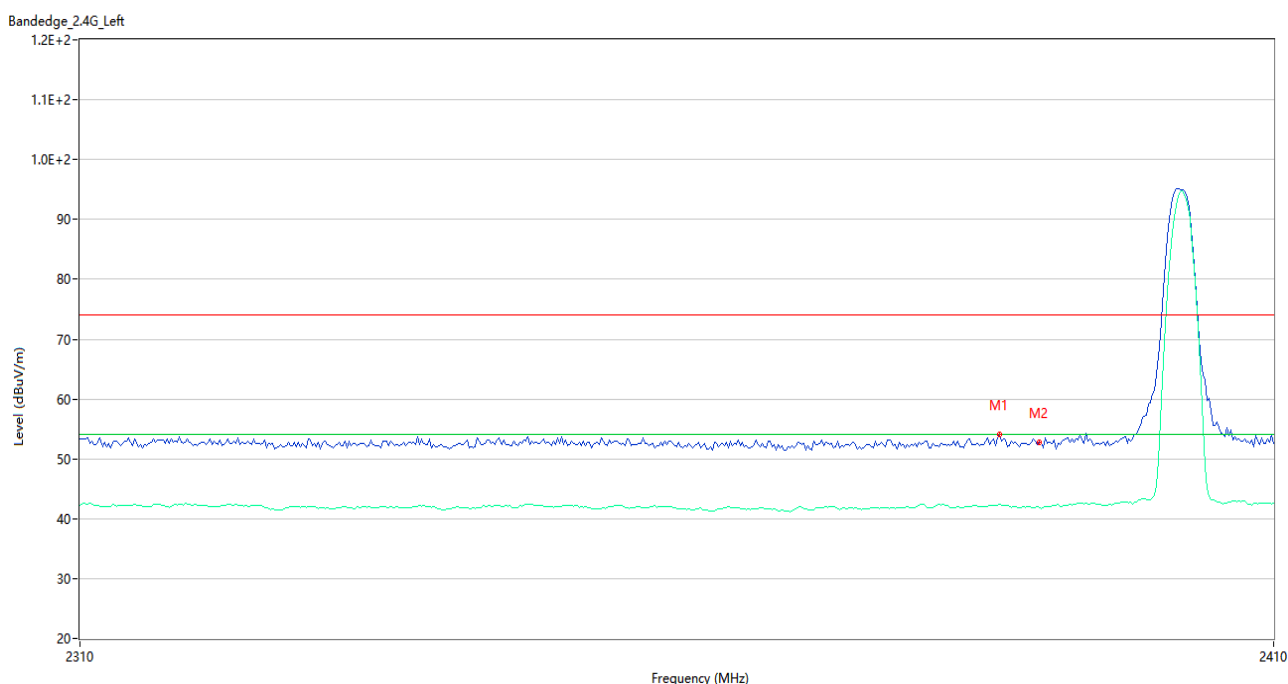
Note ³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

Note ⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

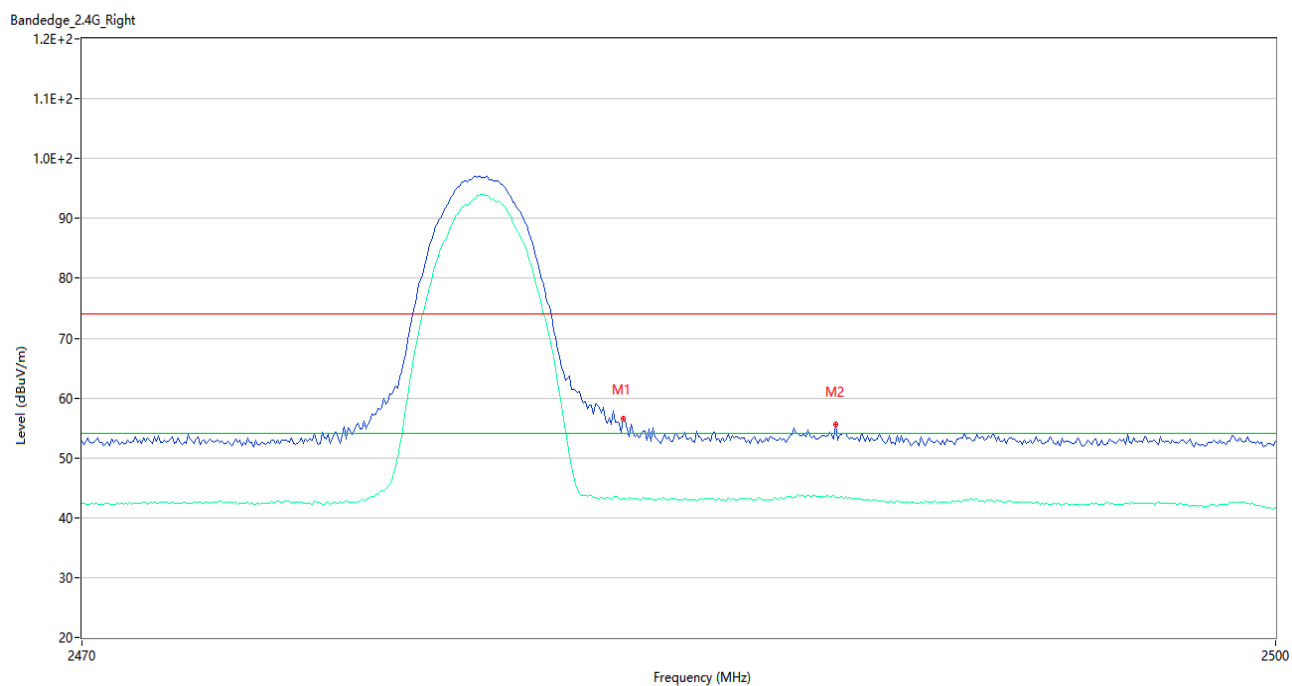
Test Data and Plots

GFSK LOW CHANNEL



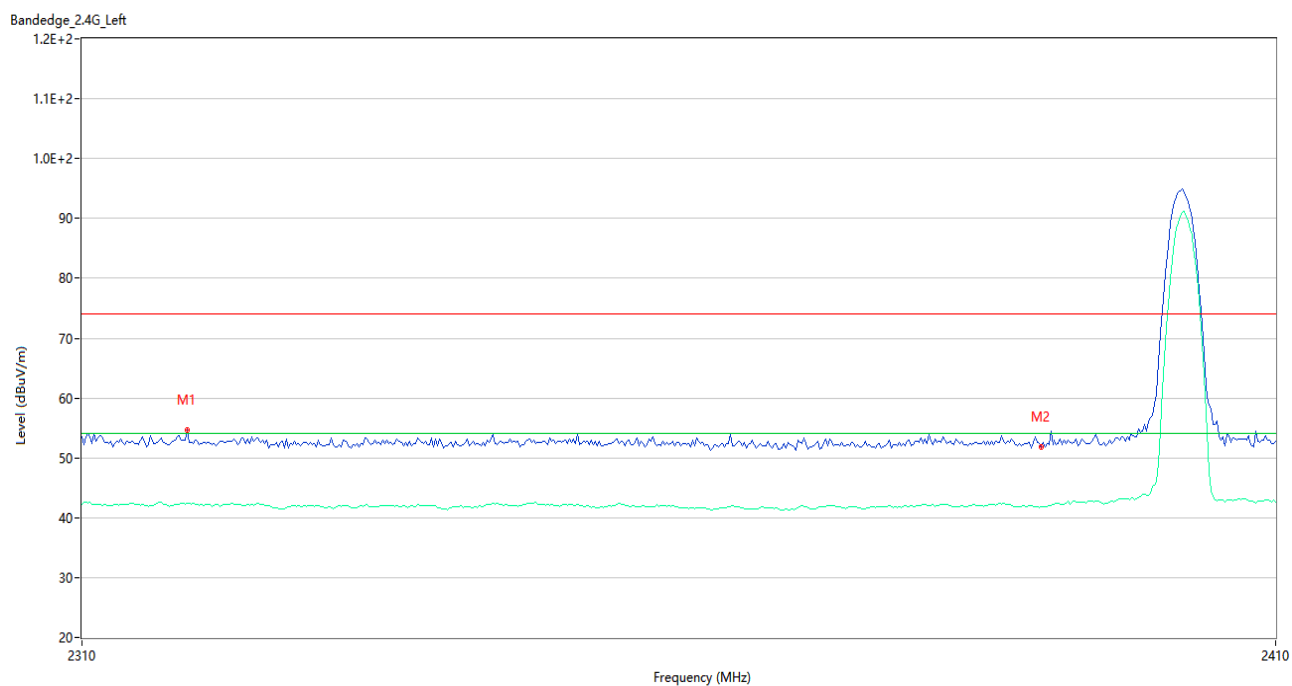
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.667	54.07	-1.54	74.0	19.93	Peak	210.00	300	Horizontal	Pass
1**	2386.667	42.46	-1.54	54.0	11.54	AV	210.00	300	Horizontal	Pass
2	2390.000	52.69	-2.16	74.0	21.31	Peak	259.00	200	Horizontal	Pass
2**	2390.000	41.86	-2.16	54.0	12.14	AV	259.00	200	Horizontal	Pass

GFSK HIGH CHANNEL



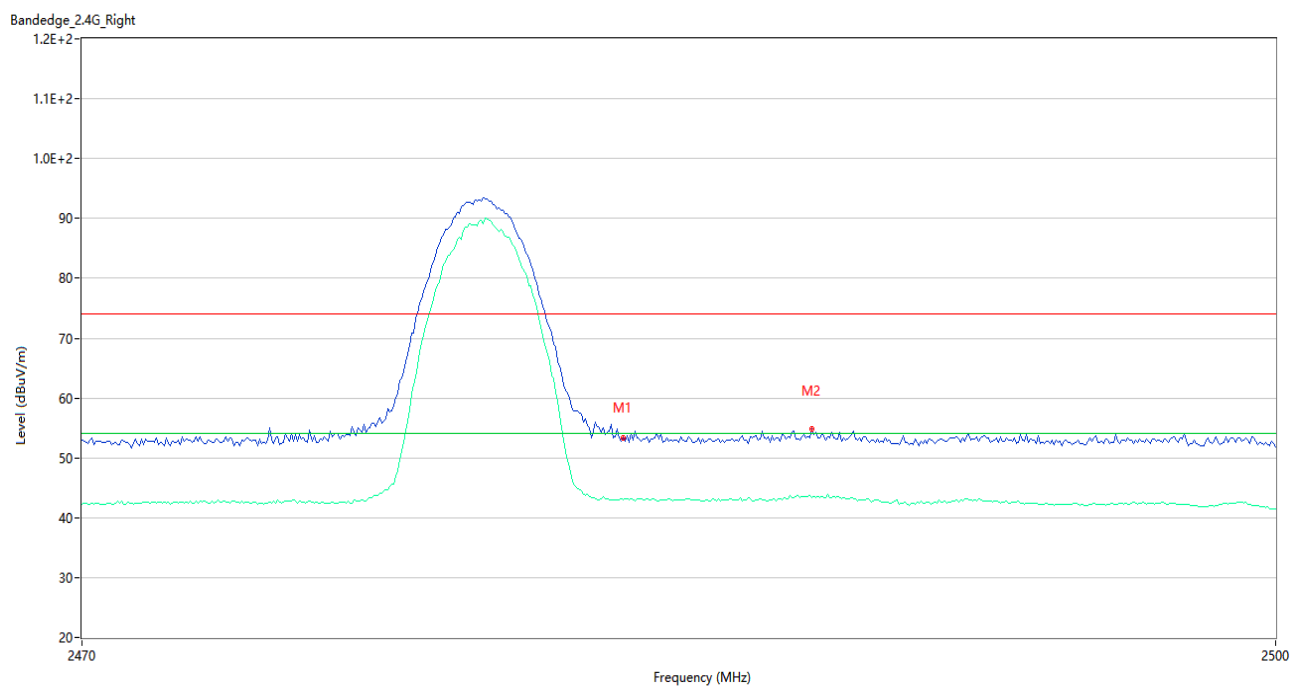
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	56.49	-1.03	74.0	17.51	Peak	84.00	300	Horizontal	Pass
1**	2483.550	43.13	-1.03	54.0	10.87	AV	84.00	300	Horizontal	Pass
2	2488.900	55.65	-0.74	74.0	18.35	Peak	99.00	100	Horizontal	Pass
2**	2488.900	43.42	-0.74	54.0	10.58	AV	99.00	100	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2318.667	54.66	-1.58	74.0	19.34	Peak	352.00	100	Horizontal	Pass
1**	2318.667	42.36	-1.58	54.0	11.64	AV	352.00	100	Horizontal	Pass
2	2390.000	51.86	-2.16	74.0	22.14	Peak	81.00	300	Horizontal	Pass
2**	2390.000	41.77	-2.16	54.0	12.23	AV	81.00	300	Horizontal	Pass

8-DPSK HIGH CHANNEL

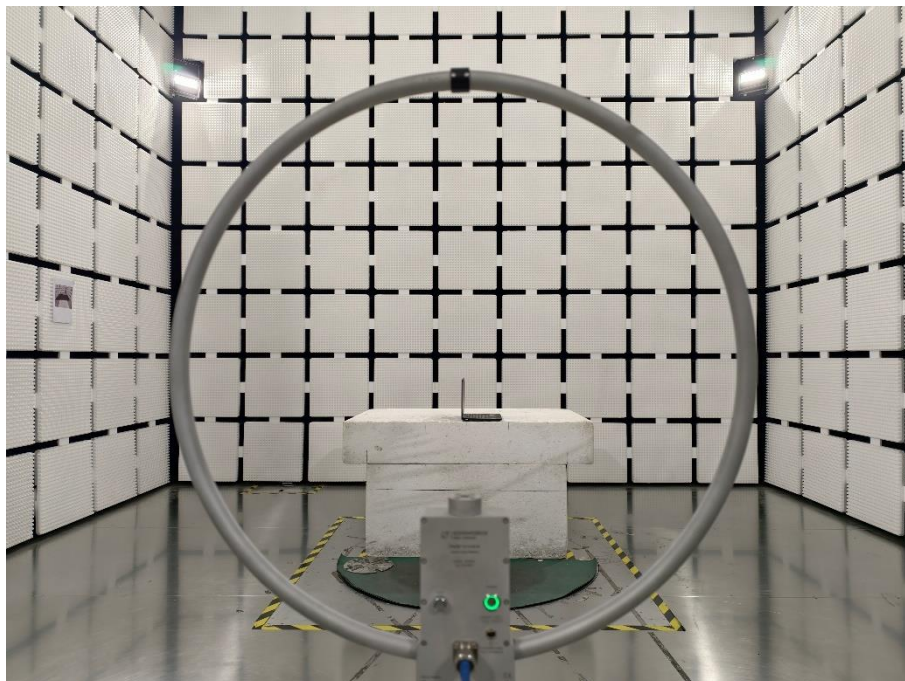


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	53.41	-1.03	74.0	20.59	Peak	251.00	400	Horizontal	Pass
1**	2483.550	43.07	-1.03	54.0	10.93	AV	251.00	400	Horizontal	Pass
2	2488.300	54.76	-0.69	74.0	19.24	Peak	237.00	300	Horizontal	Pass
2**	2488.300	43.34	-0.69	54.0	10.66	AV	237.00	300	Horizontal	Pass

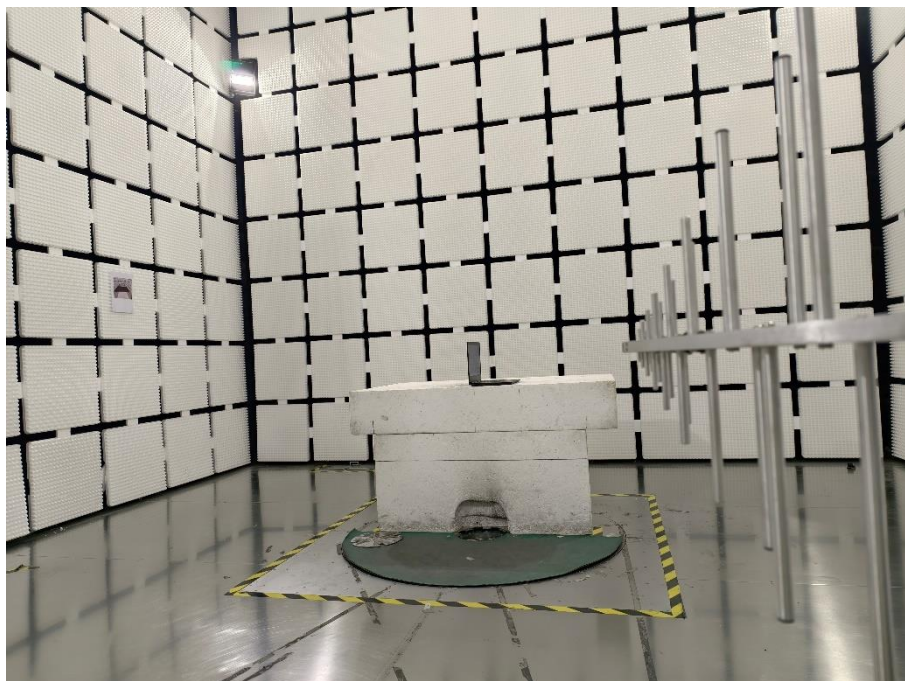
ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

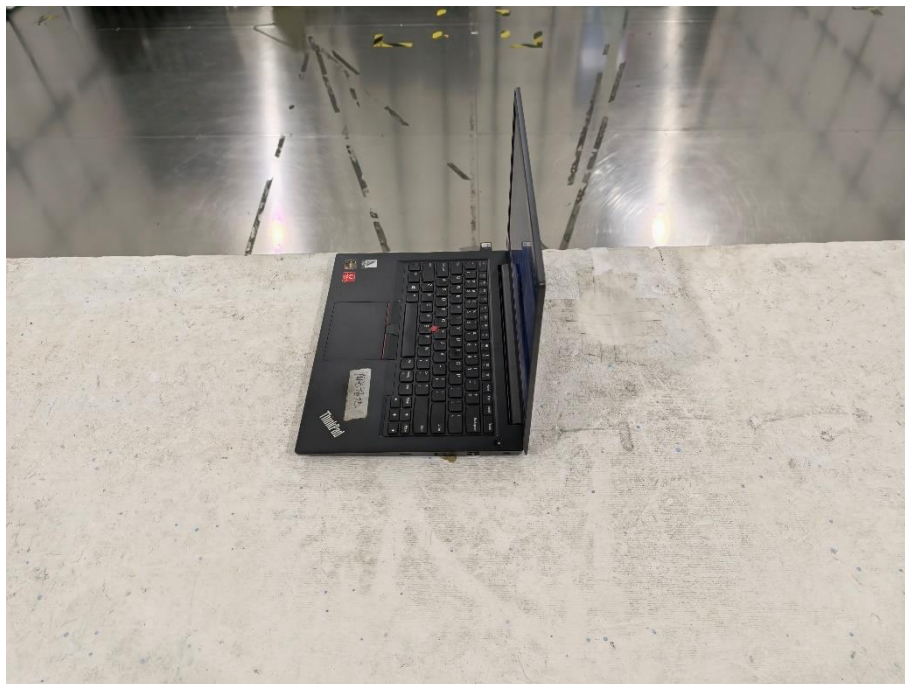
Below 30MHz



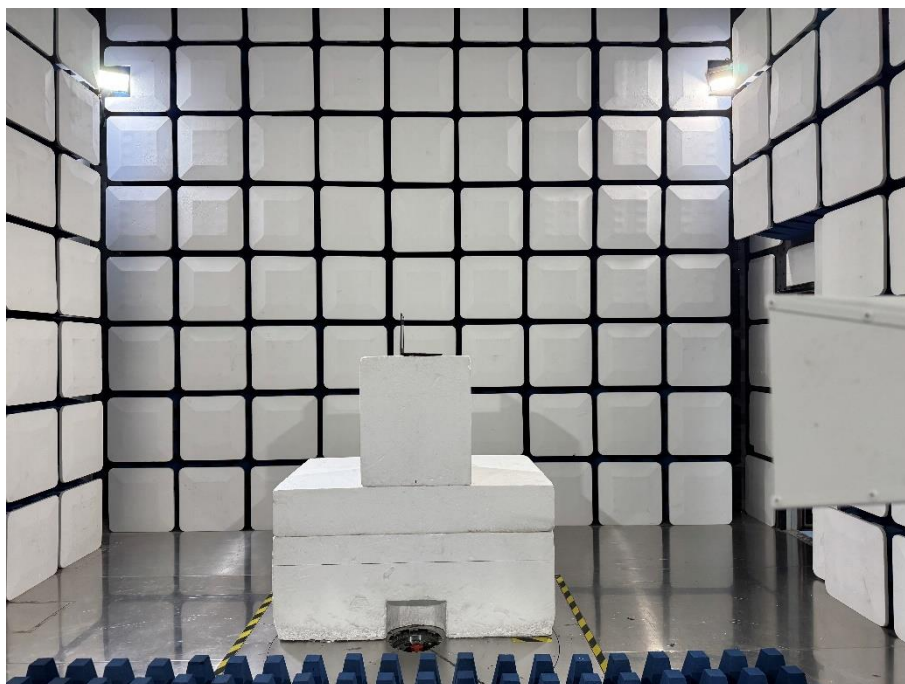
30MHz-1GHz



Close-up



Above 1GHz

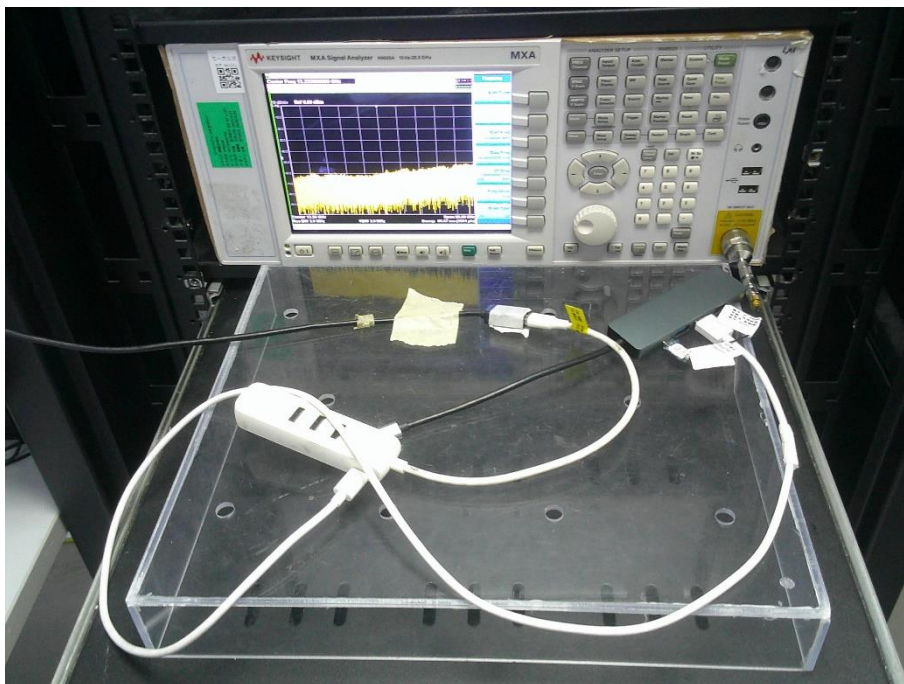


Close-up



2 Conducted Test Photo

Conducted Test 1



Conducted Test 2



3 Conducted Emission

Photo 1

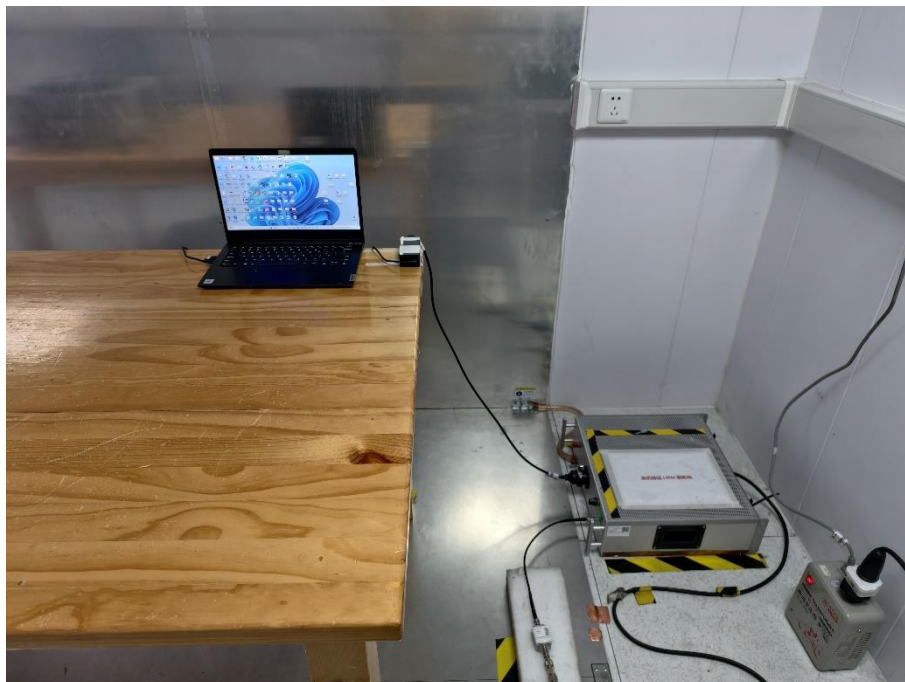


Photo 2

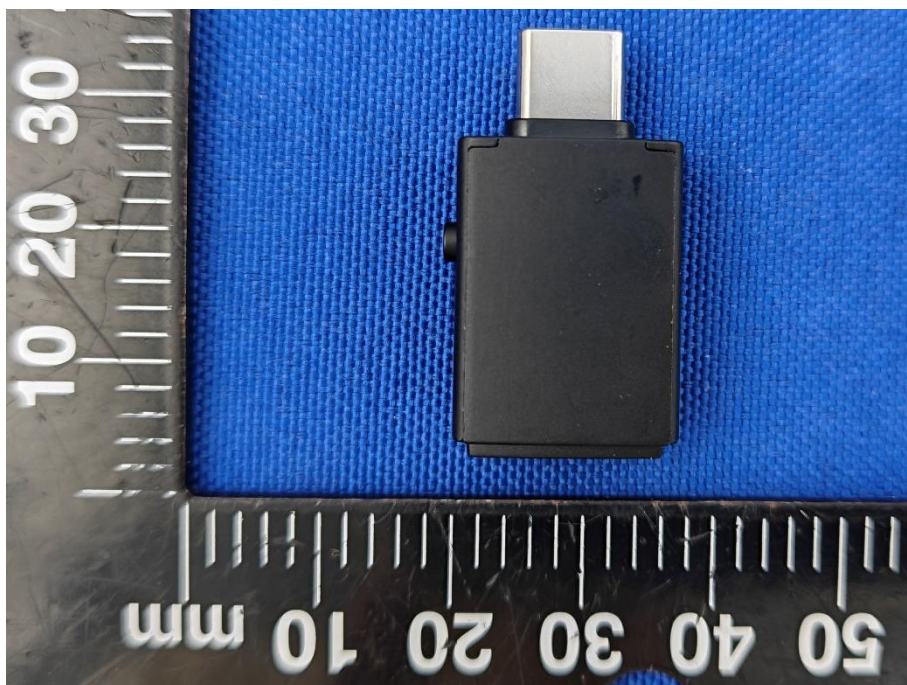


ANNEX B EUT EXTERNAL PHOTOS

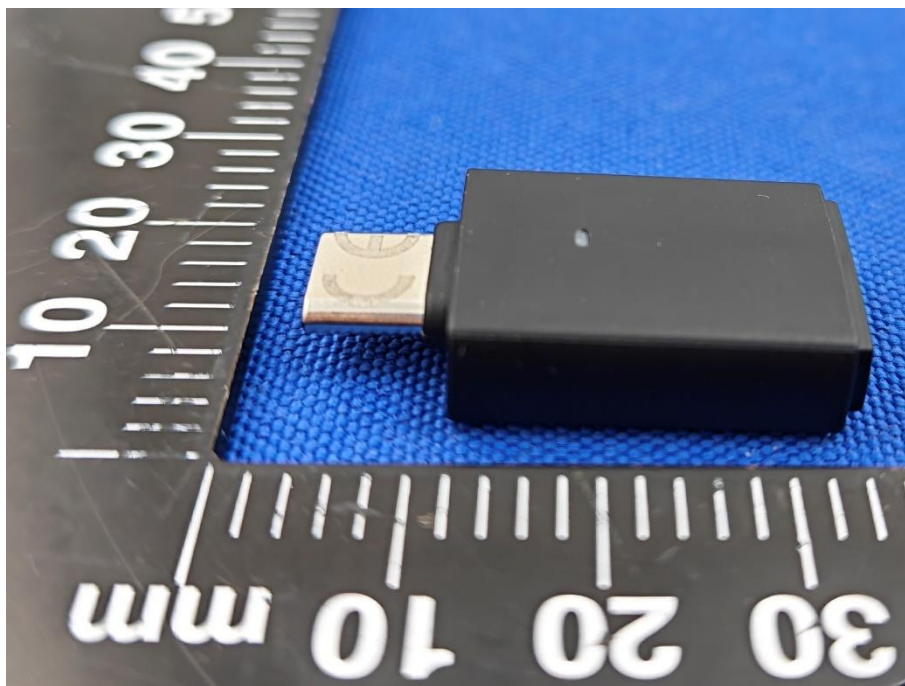
FRONT VIEW OF EUT



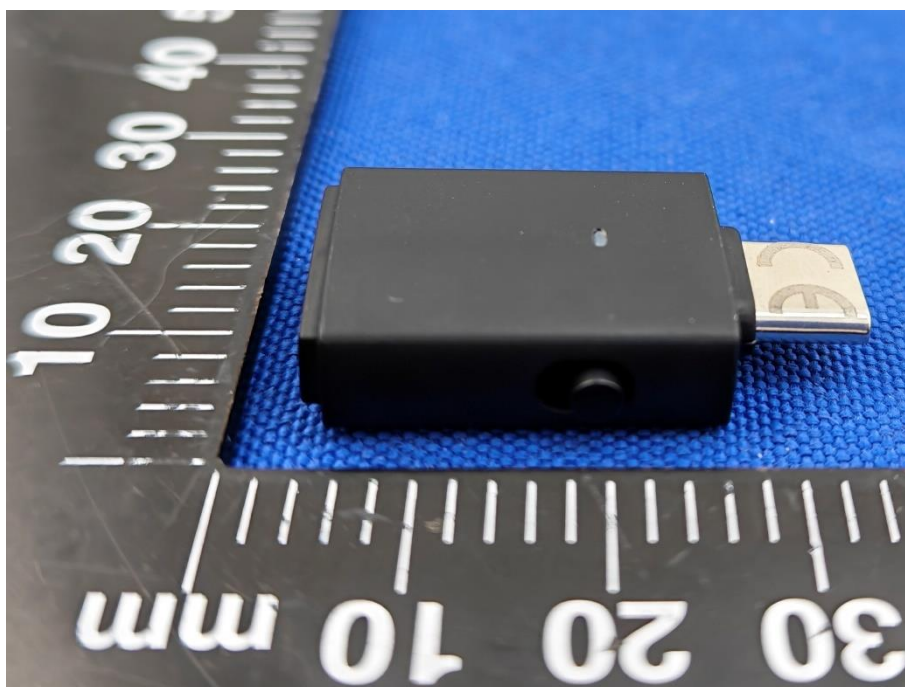
REAR VIEW OF EUT



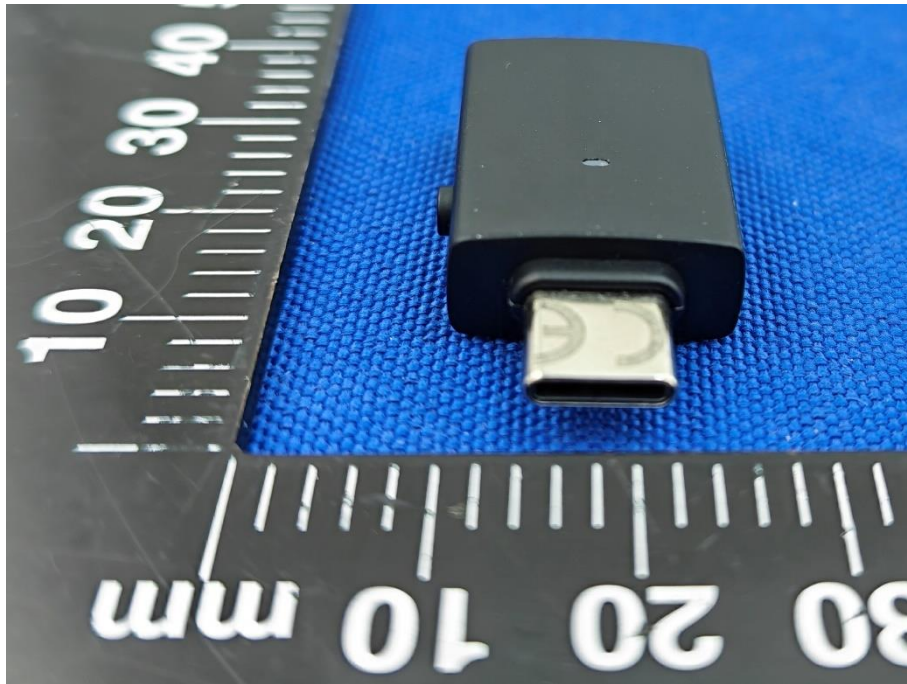
LEFT VIEW OF EUT



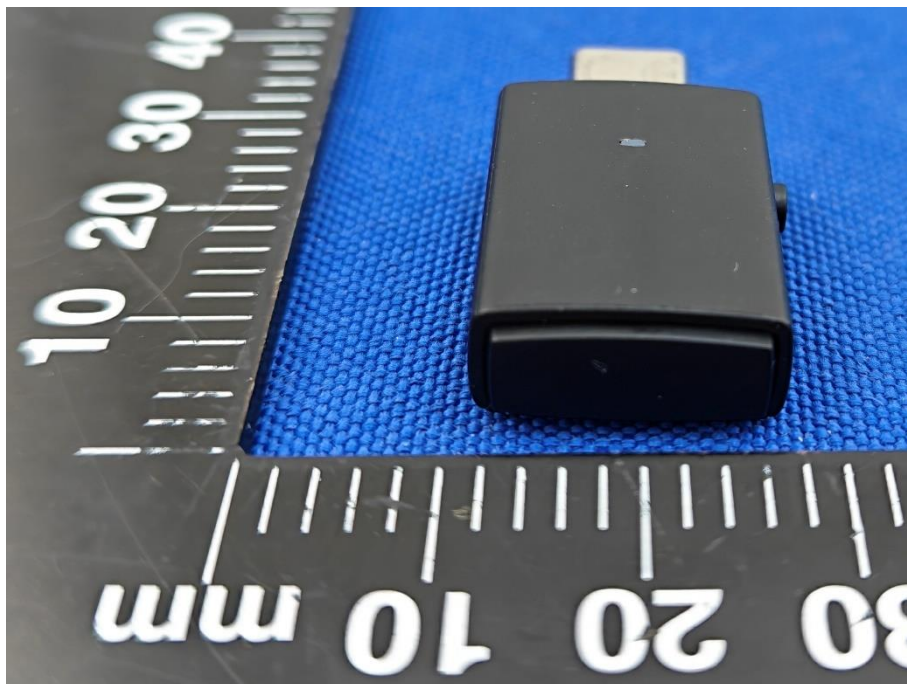
RIGHT VIEW OF EUT



TOP VIEW OF EUT

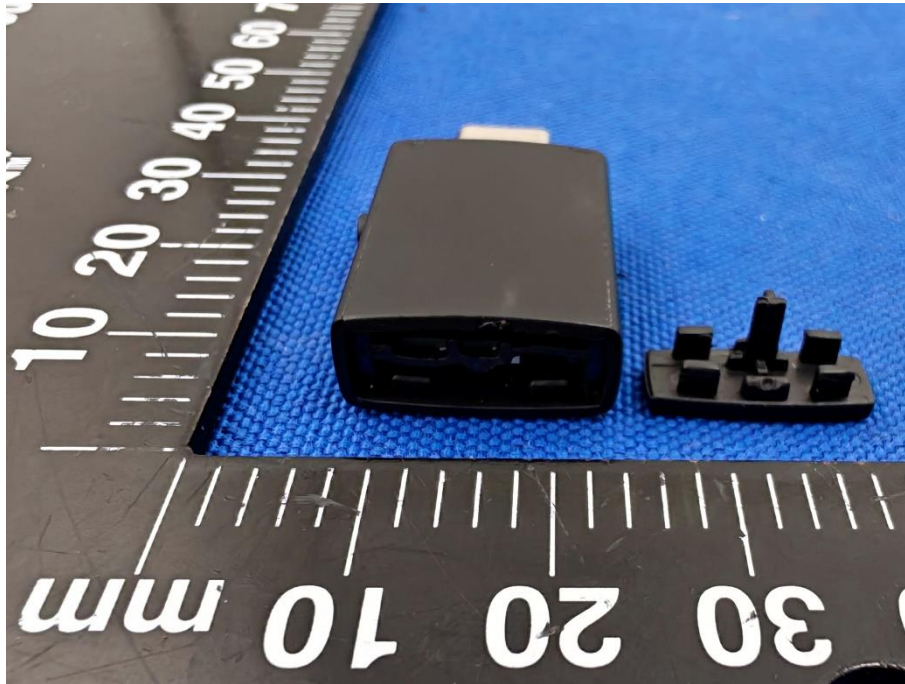


BOTTOM VIEW OF EUT

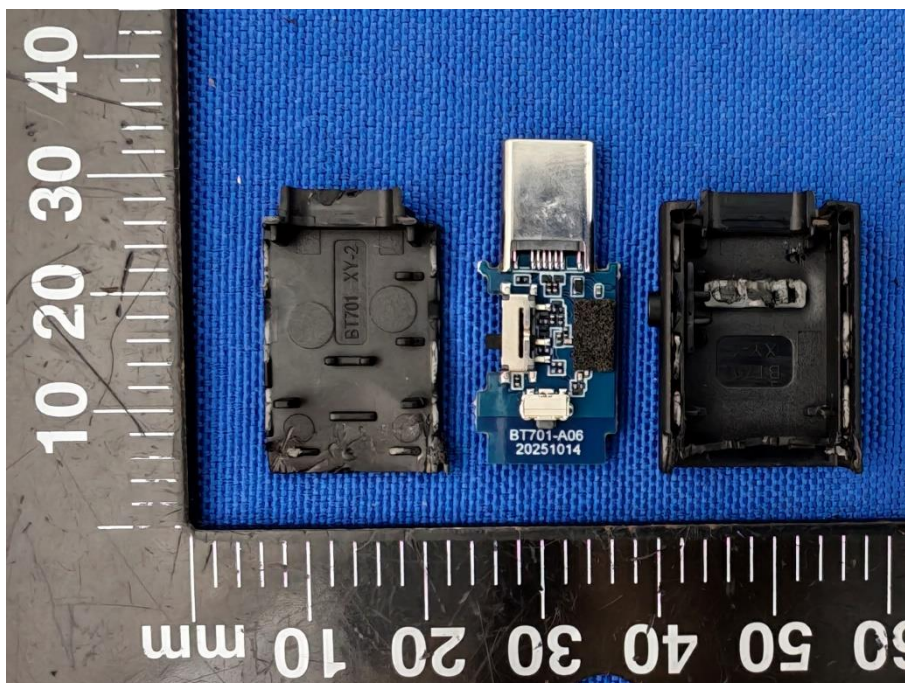


ANNEX C EUT INTERNAL PHOTOS

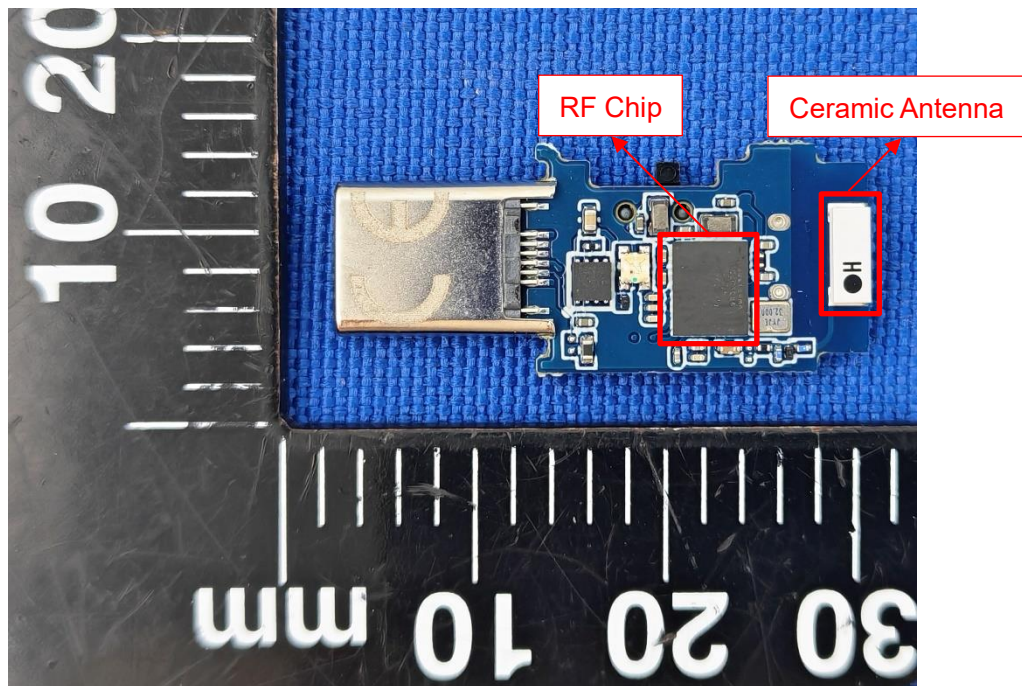
EUT UNCOVER VIEW 1



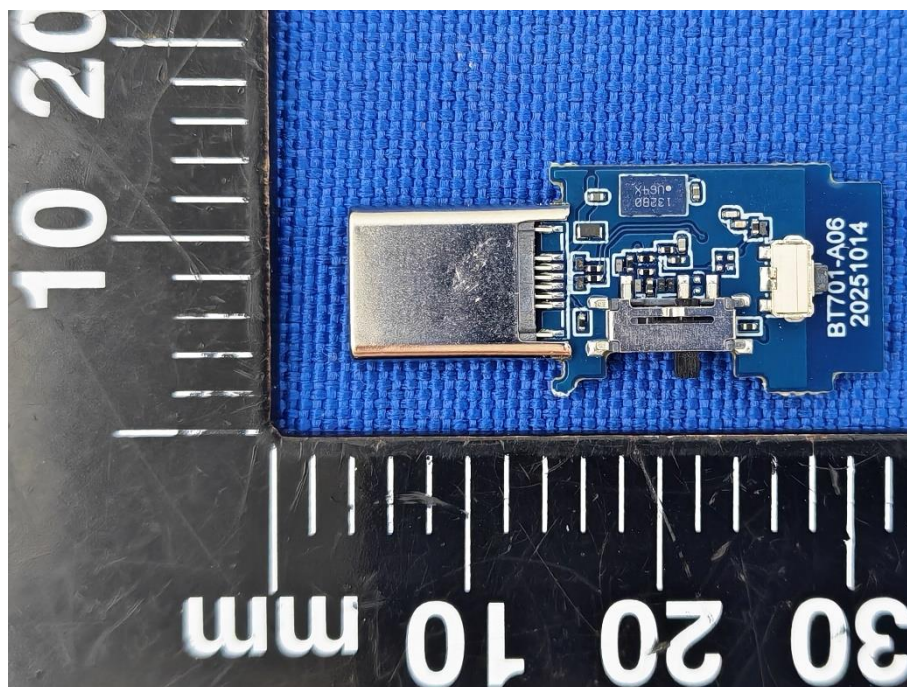
EUT UNCOVER VIEW 2



MAIN BOARD TOP VIEW



MAIN BOARD REAR VIEW



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--END OF REPORT--