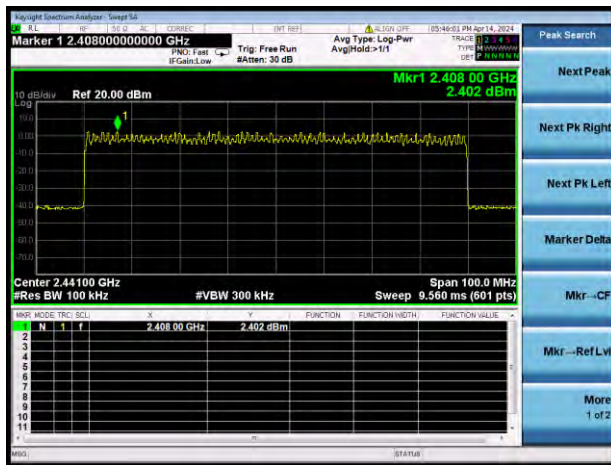
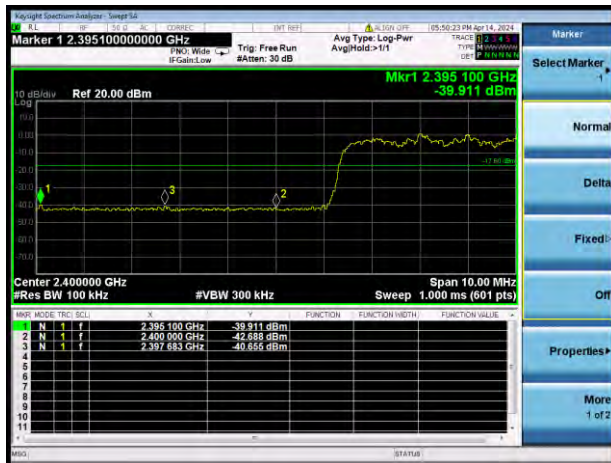


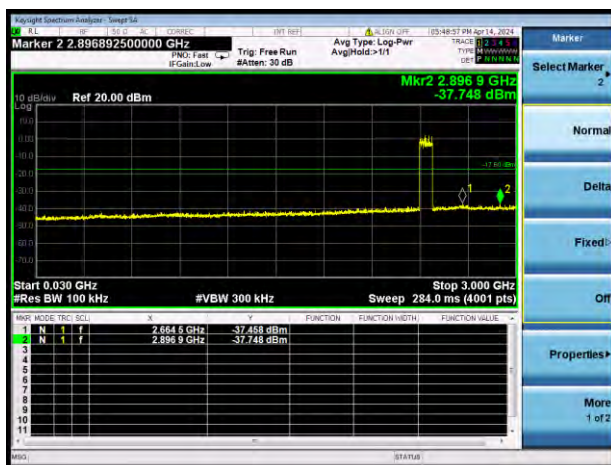
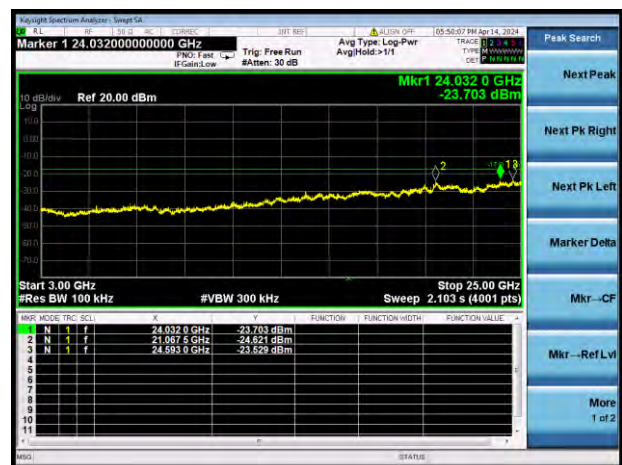
8-DPSK HOPPING, CARRIER LEVEL



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 charging mode.

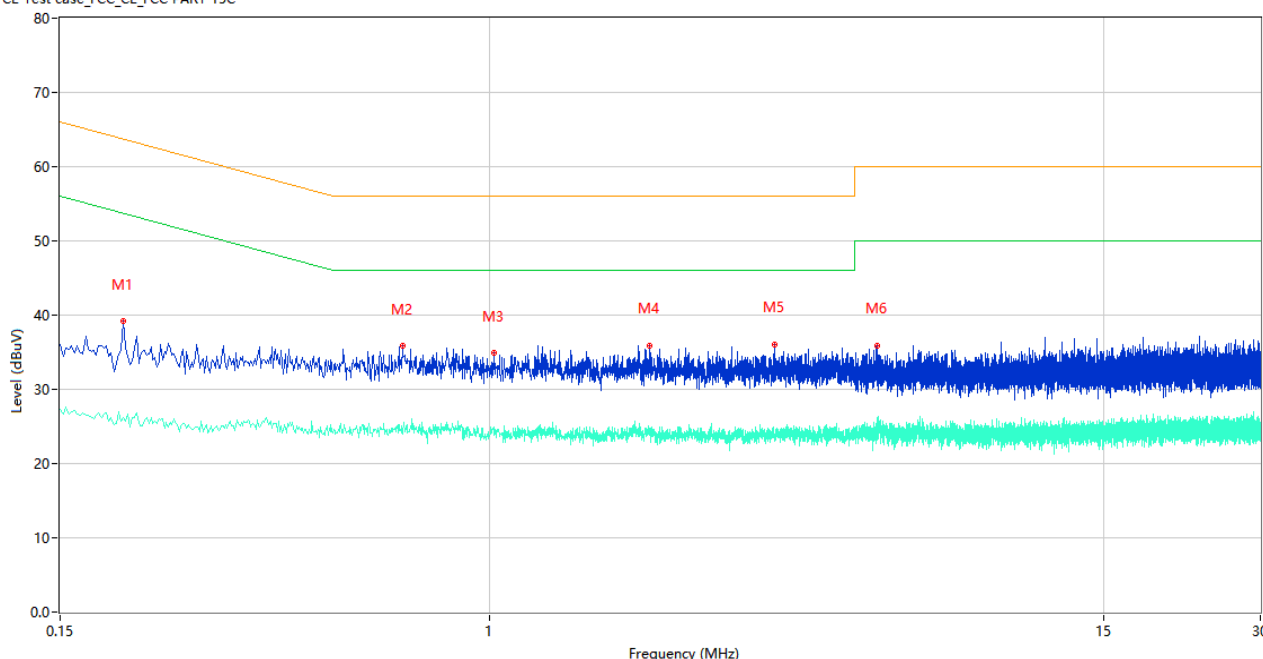
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

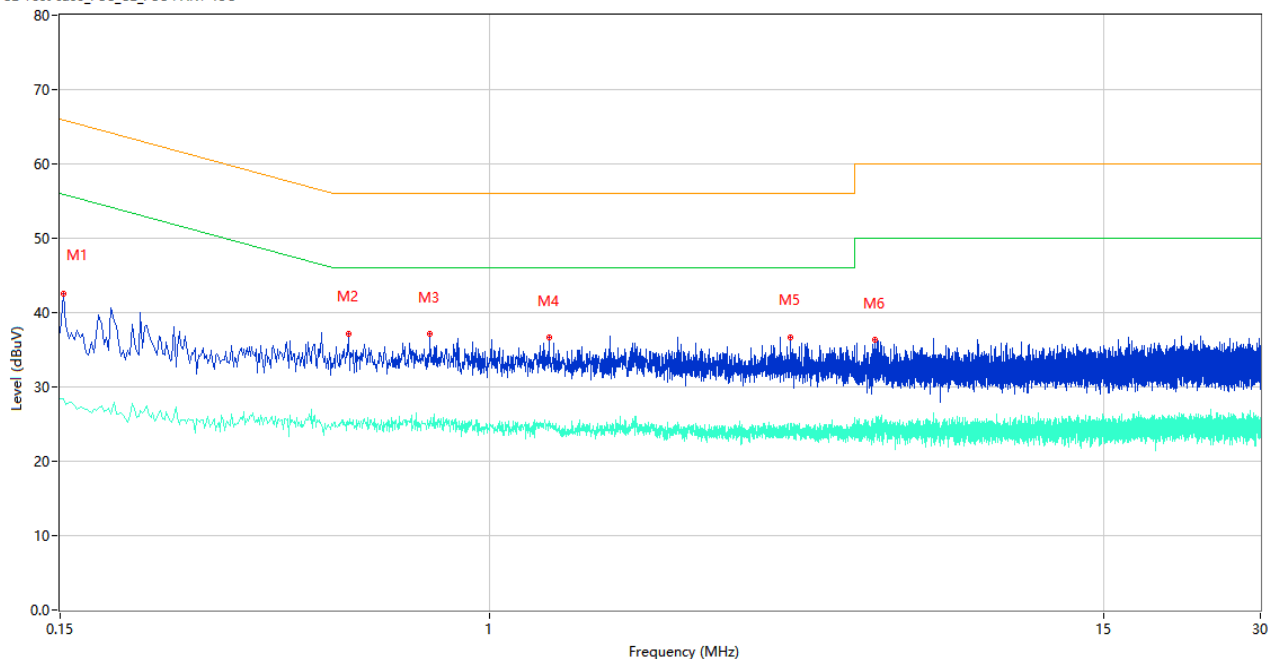
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.198	39.20	9.77	63.69	24.49	Peak	L	Pass
1**	0.198	26.16	9.77	53.69	27.53	AV	L	Pass
2	0.680	35.80	10.48	56.00	20.20	Peak	L	Pass
2**	0.680	24.44	10.48	46.00	21.56	AV	L	Pass
3	1.018	34.87	10.05	56.00	21.13	Peak	L	Pass
3**	1.018	23.87	10.05	46.00	22.13	AV	L	Pass
4	2.020	35.94	10.34	56.00	20.06	Peak	L	Pass
4**	2.020	23.93	10.34	46.00	22.07	AV	L	Pass
5	3.522	36.05	10.15	56.00	19.95	Peak	L	Pass
5**	3.522	23.47	10.15	46.00	22.53	AV	L	Pass
6	5.538	35.90	10.51	60.00	24.10	Peak	L	Pass
6**	5.538	24.54	10.51	50.00	25.46	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	0.152	42.60	9.78	65.89	23.29	Peak	N	Pass
1**	0.152	28.47	9.78	55.89	27.42	AV	N	Pass
2	0.536	37.14	10.01	56.00	18.86	Peak	N	Pass
2**	0.536	24.88	10.01	46.00	21.12	AV	N	Pass
3	0.768	37.11	10.31	56.00	18.89	Peak	N	Pass
3**	0.768	25.03	10.31	46.00	20.97	AV	N	Pass
4	1.298	36.62	10.51	56.00	19.38	Peak	N	Pass
4**	1.298	25.26	10.51	46.00	20.74	AV	N	Pass
5	3.766	36.74	10.41	56.00	19.26	Peak	N	Pass
5**	3.766	24.20	10.41	46.00	21.80	AV	N	Pass
6	5.482	36.30	10.29	60.00	23.70	Peak	N	Pass
6**	5.482	24.51	10.29	50.00	25.49	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.

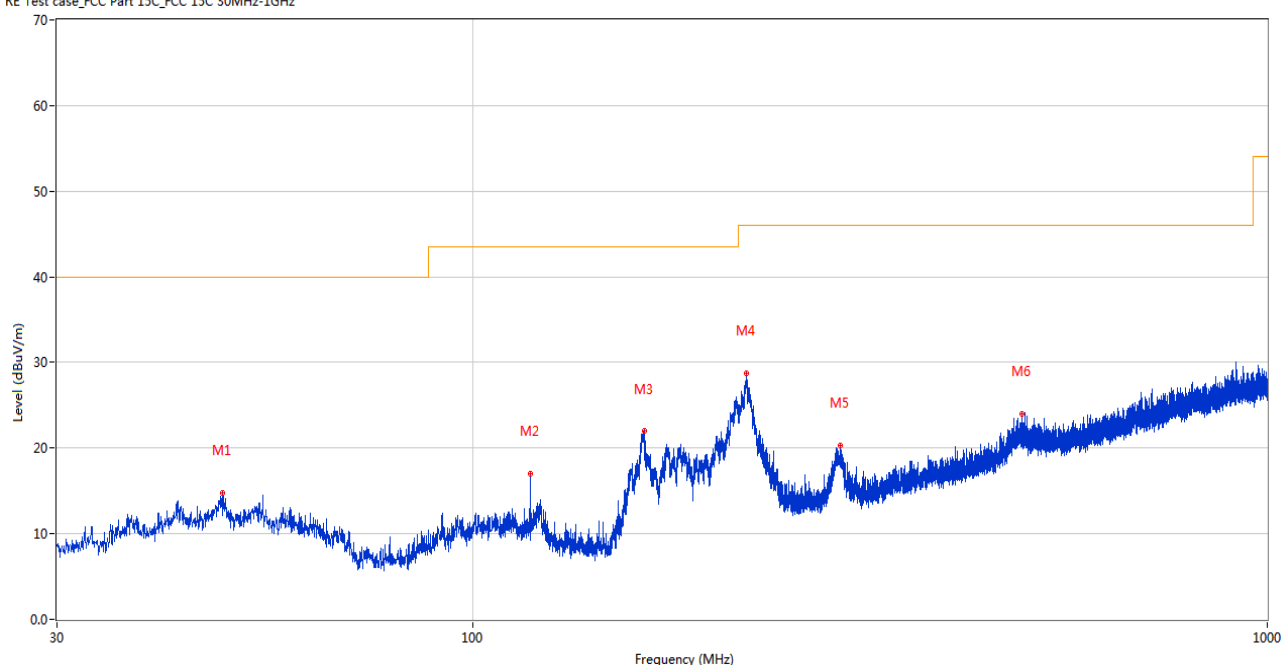
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

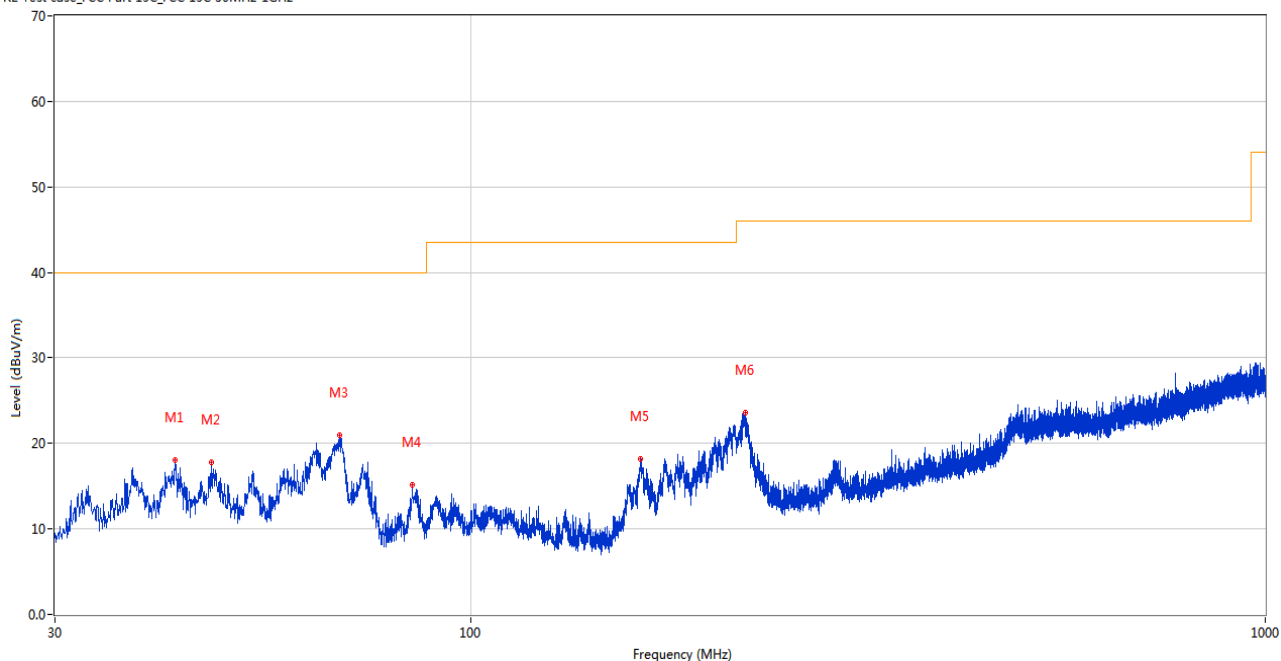
RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.527	14.80	-22.53	40.0	25.20	Peak	176.80	200	Horizontal	Pass
2	118.221	16.95	-25.83	43.5	26.55	Peak	13.00	100	Horizontal	Pass
3	164.442	21.95	-26.80	43.5	21.55	Peak	256.60	200	Horizontal	Pass
4	220.944	28.70	-23.93	46.0	17.30	Peak	147.70	100	Horizontal	Pass
5	290.591	20.26	-21.69	46.0	25.74	Peak	10.80	100	Horizontal	Pass
6	490.604	23.97	-16.94	46.0	22.03	Peak	256.60	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



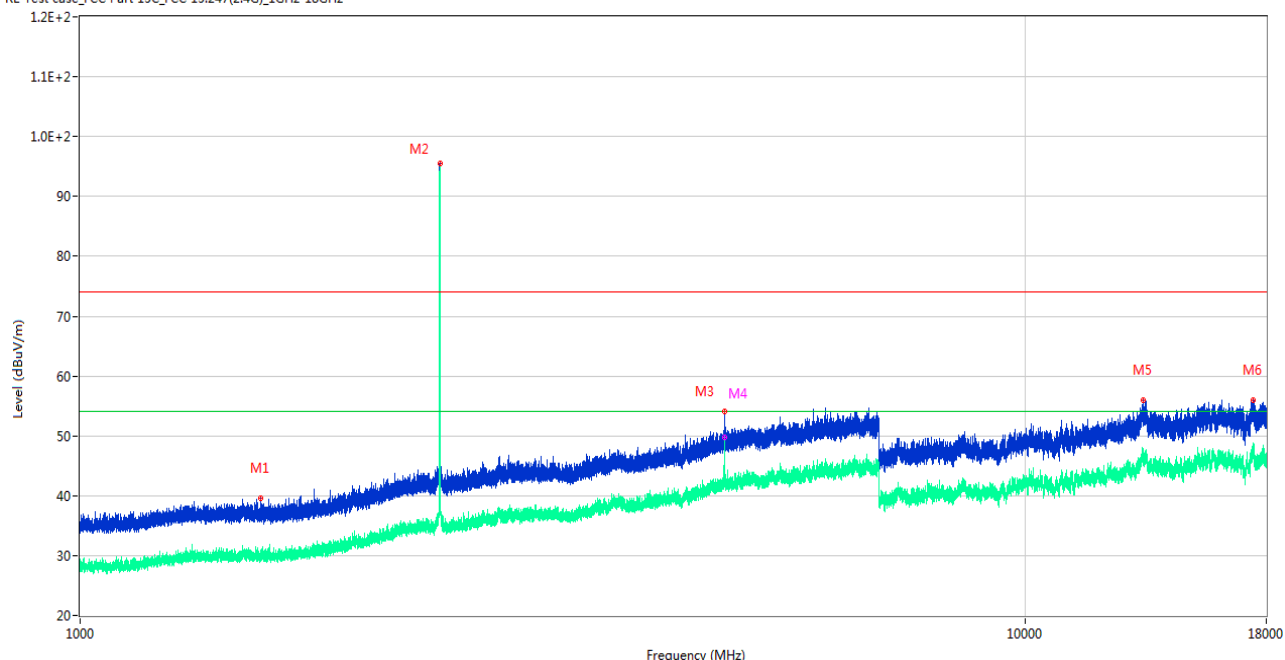
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.513	18.07	-23.42	40.0	21.93	Peak	317.50	100	Vertical	Pass
2	47.169	17.83	-22.84	40.0	22.17	Peak	348.90	100	Vertical	Pass
3	68.364	20.91	-26.03	40.0	19.09	Peak	14.30	100	Vertical	Pass
4	84.417	15.12	-27.70	40.0	24.88	Peak	328.10	200	Vertical	Pass
5	163.666	18.20	-26.87	43.5	25.30	Peak	349.70	200	Vertical	Pass
6	221.527	23.64	-23.89	46.0	22.36	Peak	360.00	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

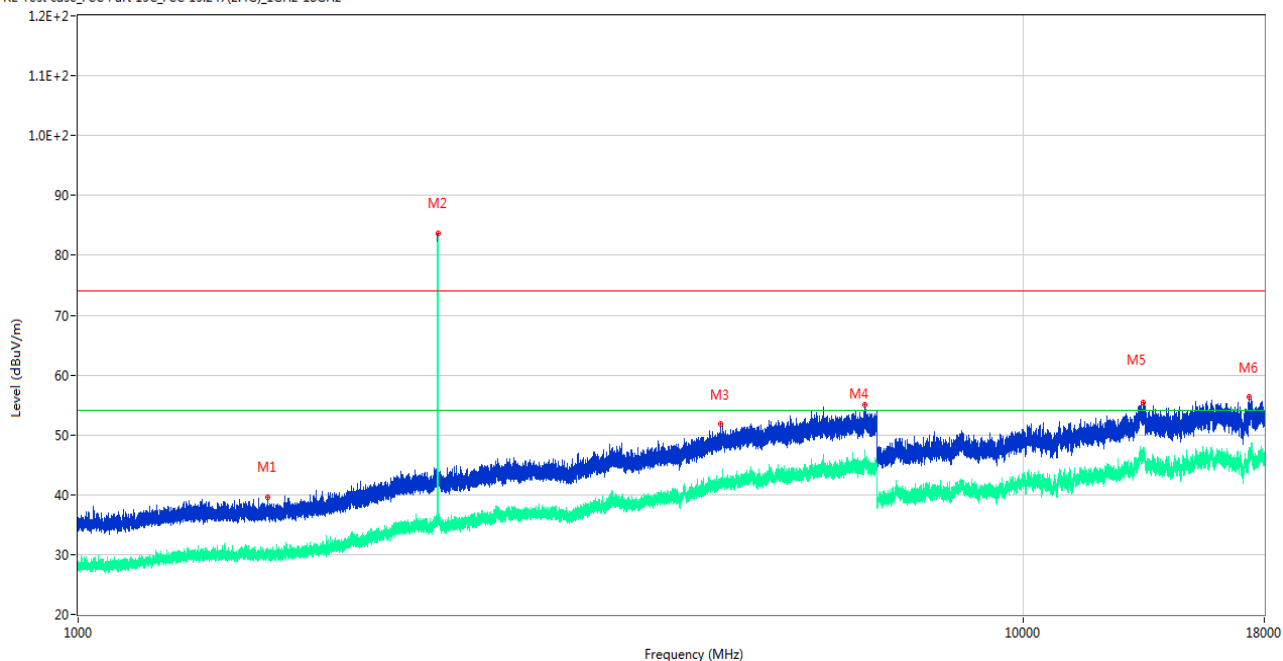
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1554.200	39.62	-17.18	74.0	34.38	Peak	270.00	100	Horizontal	Pass
1**	1554.200	29.56	-17.18	54.0	24.44	AV	270.00	100	Horizontal	Pass
2	2402.200	95.55	-9.74	74.0	-21.55	Peak	88.00	200	Horizontal	N/A
2**	2402.200	95.29	-9.74	54.0	-41.29	AV	88.00	200	Horizontal	N/A
3	4804.200	54.11	-2.83	74.0	19.89	Peak	44.00	200	Horizontal	Pass
3**	4804.200	49.49	-2.83	54.0	4.51	AV	44.00	200	Horizontal	Pass
4	4804.400	52.39	-2.80	74.0	21.61	Peak	11.00	150	Horizontal	Pass
4**	4804.400	49.79	-2.80	54.0	4.21	AV	11.00	150	Horizontal	Pass
5	13324.088	55.94	0.92	74.0	18.06	Peak	306.00	150	Horizontal	Pass
5**	13324.088	46.63	0.92	54.0	7.37	AV	306.00	150	Horizontal	Pass
6	17422.238	56.04	3.70	74.0	17.96	Peak	153.00	300	Horizontal	Pass
6**	17422.238	46.86	3.70	54.0	7.14	AV	153.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

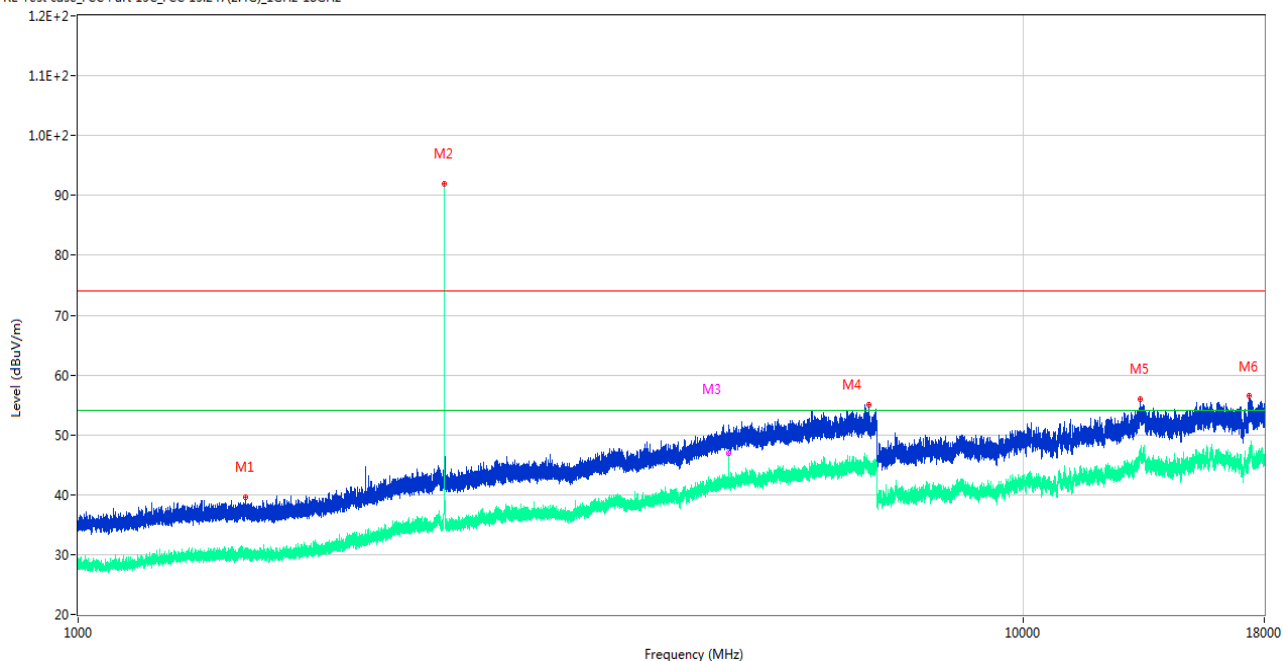
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1586.100	39.58	-16.85	74.0	34.42	Peak	316.00	300	Vertical	Pass
1**	1586.100	30.23	-16.85	54.0	23.77	AV	316.00	300	Vertical	Pass
2	2402.100	83.70	-9.74	74.0	-9.70	Peak	249.00	150	Vertical	N/A
2**	2402.100	83.46	-9.74	54.0	-29.46	AV	249.00	150	Vertical	N/A
3	4782.200	51.74	-2.96	74.0	22.26	Peak	6.00	150	Vertical	Pass
3**	4782.200	41.16	-2.96	54.0	12.84	AV	6.00	150	Vertical	Pass
4	6807.000	55.12	2.15	74.0	18.88	Peak	214.00	300	Vertical	Pass
4**	6807.000	45.83	2.15	54.0	8.17	AV	214.00	300	Vertical	Pass
5	13414.651	55.44	0.42	74.0	18.56	Peak	102.00	150	Vertical	Pass
5**	13414.651	46.58	0.42	54.0	7.42	AV	102.00	150	Vertical	Pass
6	17334.036	56.26	1.41	74.0	17.74	Peak	360.00	100	Vertical	Pass
6**	17334.036	45.46	1.41	54.0	8.54	AV	360.00	100	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

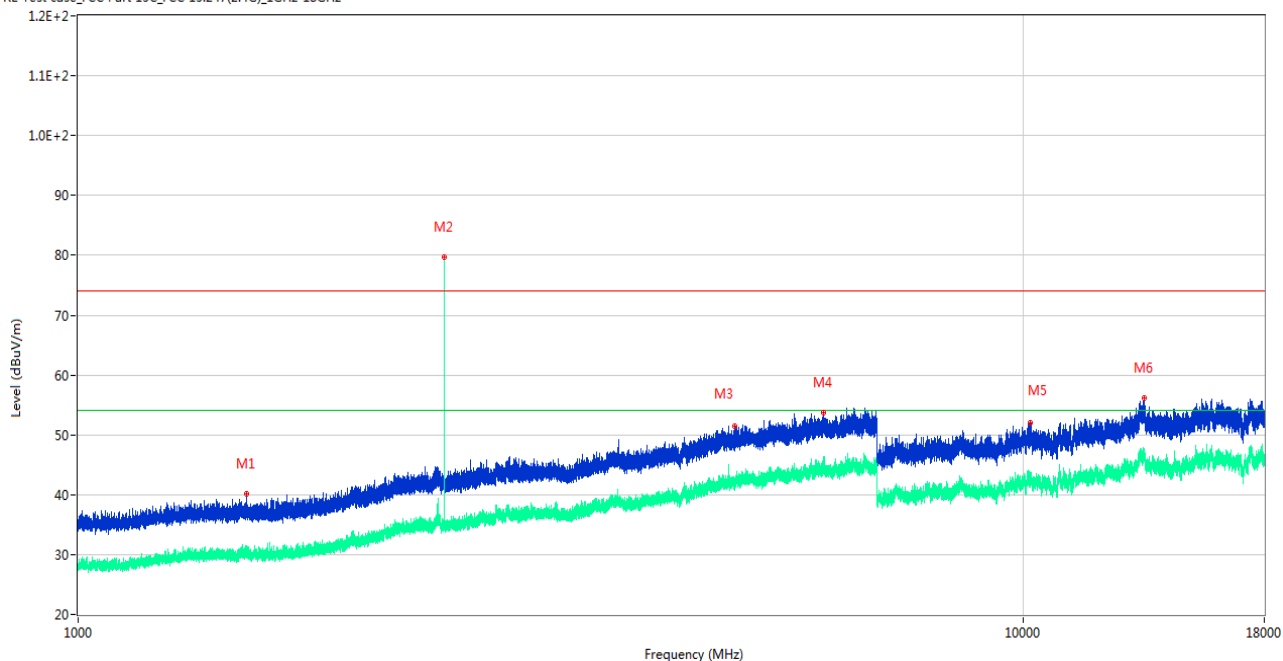
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.800	39.67	-16.94	74.0	34.33	Peak	303.00	100	Horizontal	Pass
1**	1503.800	30.11	-16.94	54.0	23.89	AV	303.00	100	Horizontal	Pass
2	2440.900	91.98	-12.38	74.0	-17.98	Peak	228.00	150	Horizontal	N/A
2**	2440.900	91.28	-12.38	54.0	-37.28	AV	228.00	150	Horizontal	N/A
3	4881.800	51.35	-2.63	74.0	22.65	Peak	254.00	150	Horizontal	Pass
3**	4881.800	46.88	-2.63	54.0	7.12	AV	254.00	150	Horizontal	Pass
4	6868.800	55.11	-0.47	74.0	18.89	Peak	308.00	400	Horizontal	Pass
4**	6868.800	44.38	-0.47	54.0	9.62	AV	308.00	400	Horizontal	Pass
5	13298.888	56.03	0.86	74.0	17.97	Peak	106.00	150	Horizontal	Pass
5**	13298.888	46.13	0.86	54.0	7.87	AV	106.00	150	Horizontal	Pass
6	17350.574	56.49	1.92	74.0	17.51	Peak	126.00	100	Horizontal	Pass
6**	17350.574	46.38	1.92	54.0	7.62	AV	126.00	100	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

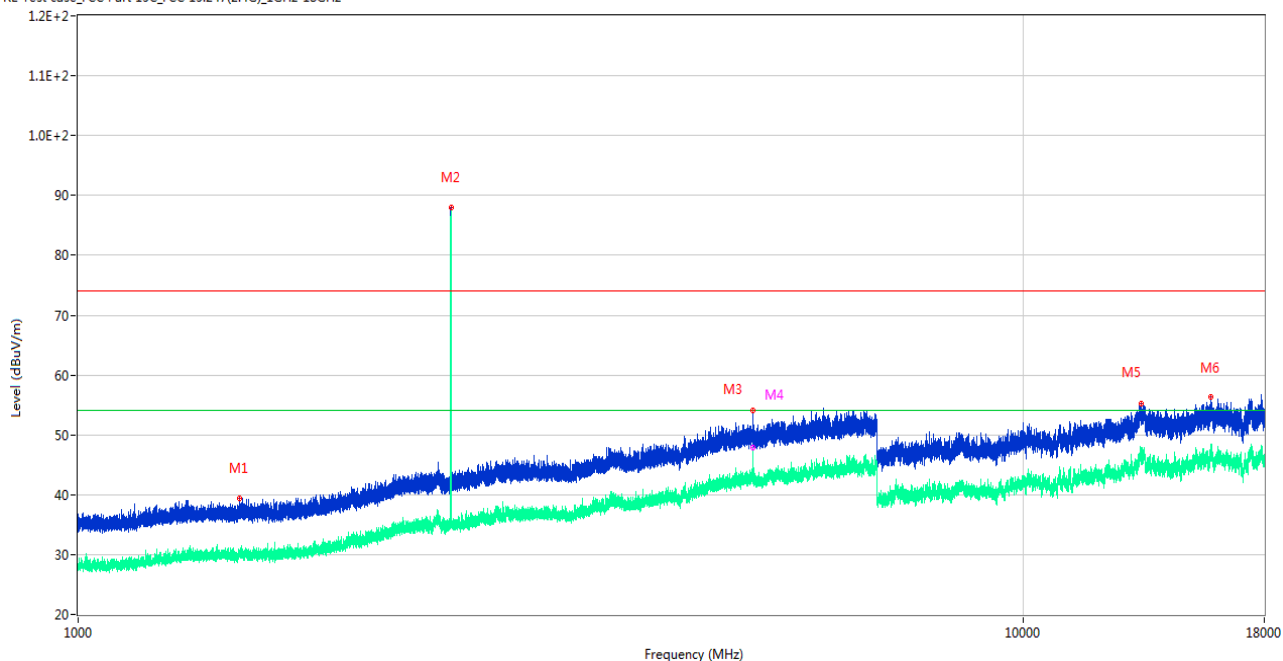
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1505.900	40.16	-16.83	74.0	33.84	Peak	159.00	100	Vertical	Pass
1**	1505.900	29.78	-16.83	54.0	24.22	AV	159.00	100	Vertical	Pass
2	2441.100	79.78	-12.38	74.0	-5.78	Peak	185.00	150	Vertical	N/A
2**	2441.100	79.41	-12.38	54.0	-25.41	AV	185.00	150	Vertical	N/A
3	4947.200	51.50	-2.61	74.0	22.50	Peak	234.00	100	Vertical	Pass
3**	4947.200	41.66	-2.61	54.0	12.34	AV	234.00	100	Vertical	Pass
4	6153.600	53.66	0.39	74.0	20.34	Peak	20.00	150	Vertical	Pass
4**	6153.600	45.04	0.39	54.0	8.96	AV	20.00	150	Vertical	Pass
5	10188.375	51.96	0.24	74.0	22.04	Peak	145.00	150	Vertical	Pass
5**	10188.375	41.88	0.24	54.0	12.12	AV	145.00	150	Vertical	Pass
6	13436.963	56.16	0.44	74.0	17.84	Peak	326.00	100	Vertical	Pass
6**	13436.963	46.34	0.44	54.0	7.66	AV	326.00	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

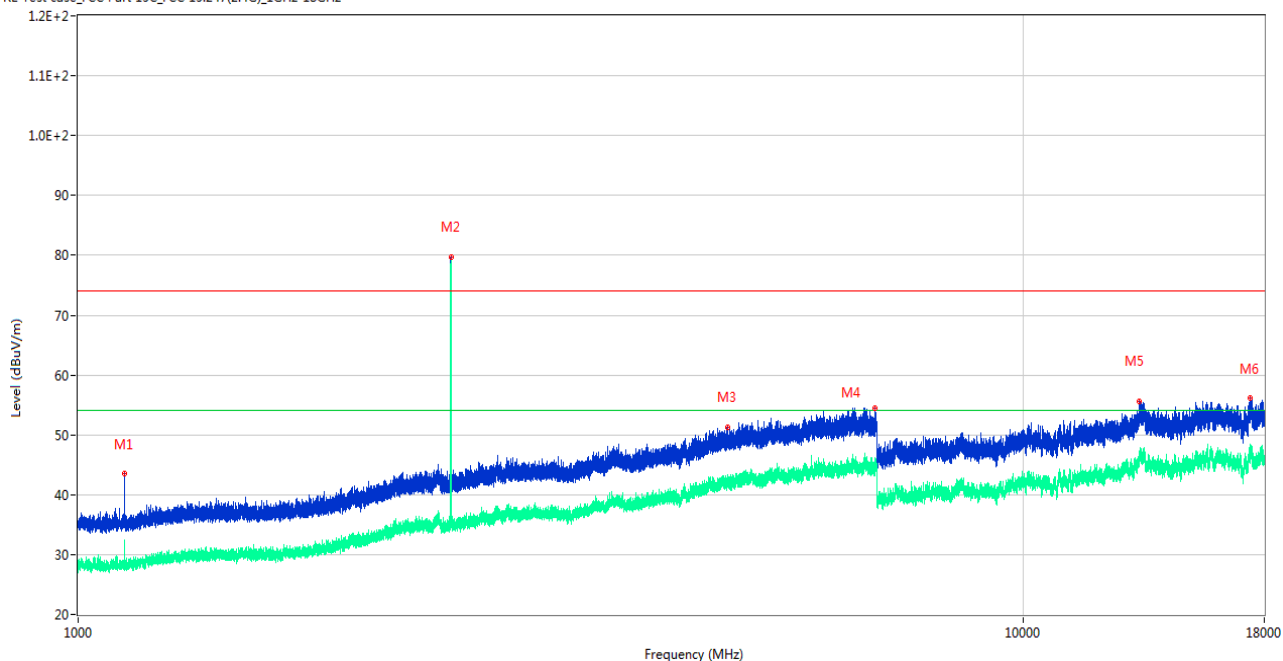
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.600	39.44	-16.91	74.0	34.56	Peak	330.00	300	Horizontal	Pass
1**	1483.600	30.15	-16.91	54.0	23.85	AV	330.00	300	Horizontal	Pass
2	2479.800	88.03	-11.33	74.0	-14.03	Peak	81.00	150	Horizontal	N/A
2**	2479.800	86.88	-11.33	54.0	-32.88	AV	81.00	150	Horizontal	N/A
3	5174.000	54.01	-2.25	74.0	19.99	Peak	125.00	150	Horizontal	Pass
3**	5174.000	45.65	-2.25	54.0	8.35	AV	125.00	150	Horizontal	Pass
4	5174.200	51.34	-2.28	74.0	22.66	Peak	125.00	150	Horizontal	Pass
4**	5174.200	47.86	-2.28	54.0	6.14	AV	125.00	150	Horizontal	Pass
5	13325.138	55.24	0.93	74.0	18.76	Peak	64.00	150	Horizontal	Pass
5**	13325.138	46.36	0.93	54.0	7.64	AV	64.00	150	Horizontal	Pass
6	15804.713	56.31	2.27	74.0	17.69	Peak	5.00	400	Horizontal	Pass
6**	15804.713	47.00	2.27	54.0	7.00	AV	5.00	400	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

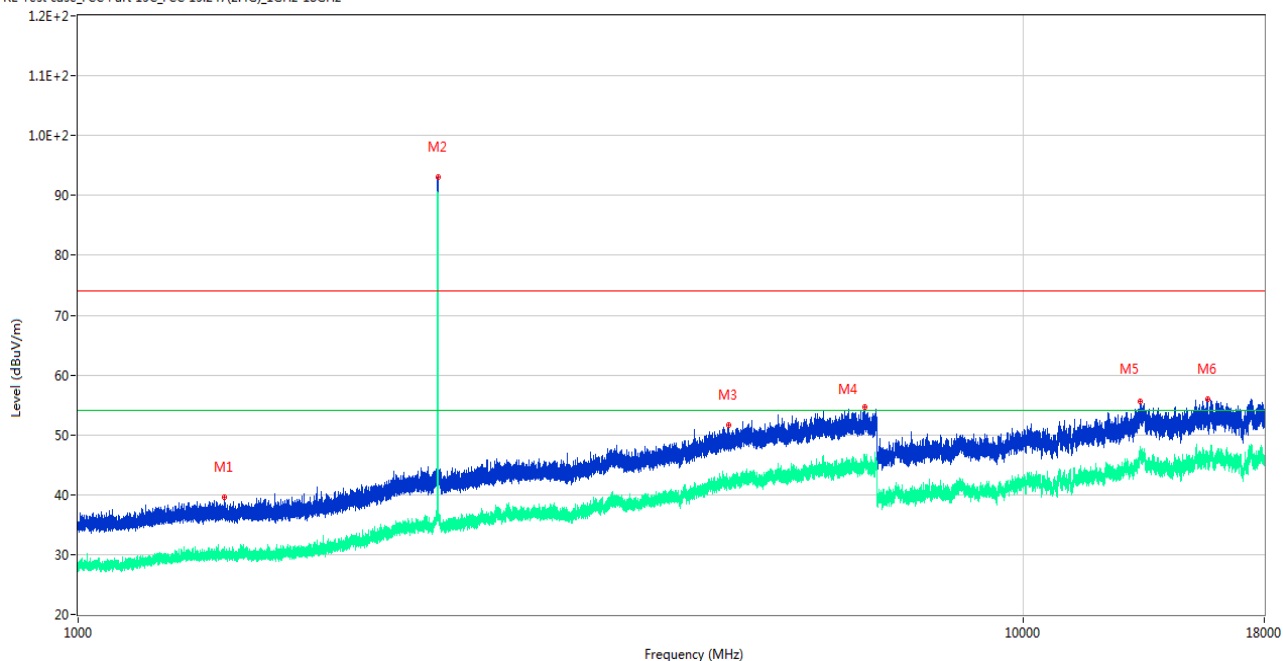
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.000	43.47	-18.09	74.0	30.53	Peak	61.00	100	Vertical	Pass
1**	1119.000	28.34	-18.09	54.0	25.66	AV	61.00	100	Vertical	Pass
2	2480.000	79.71	-11.30	74.0	-5.71	Peak	325.00	100	Vertical	N/A
2**	2480.000	79.25	-11.30	54.0	-25.25	AV	325.00	100	Vertical	N/A
3	4867.000	51.25	-2.53	74.0	22.75	Peak	187.00	100	Vertical	Pass
3**	4867.000	41.85	-2.53	54.0	12.15	AV	187.00	100	Vertical	Pass
4	6976.600	54.49	1.66	74.0	19.51	Peak	41.00	100	Vertical	Pass
4**	6976.600	45.48	1.66	54.0	8.52	AV	41.00	100	Vertical	Pass
5	13286.813	55.63	0.77	74.0	18.37	Peak	14.00	150	Vertical	Pass
5**	13286.813	46.72	0.77	54.0	7.28	AV	14.00	150	Vertical	Pass
6	17411.475	56.09	3.50	74.0	17.91	Peak	263.00	200	Vertical	Pass
6**	17411.475	47.44	3.50	54.0	6.56	AV	263.00	200	Vertical	Pass

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

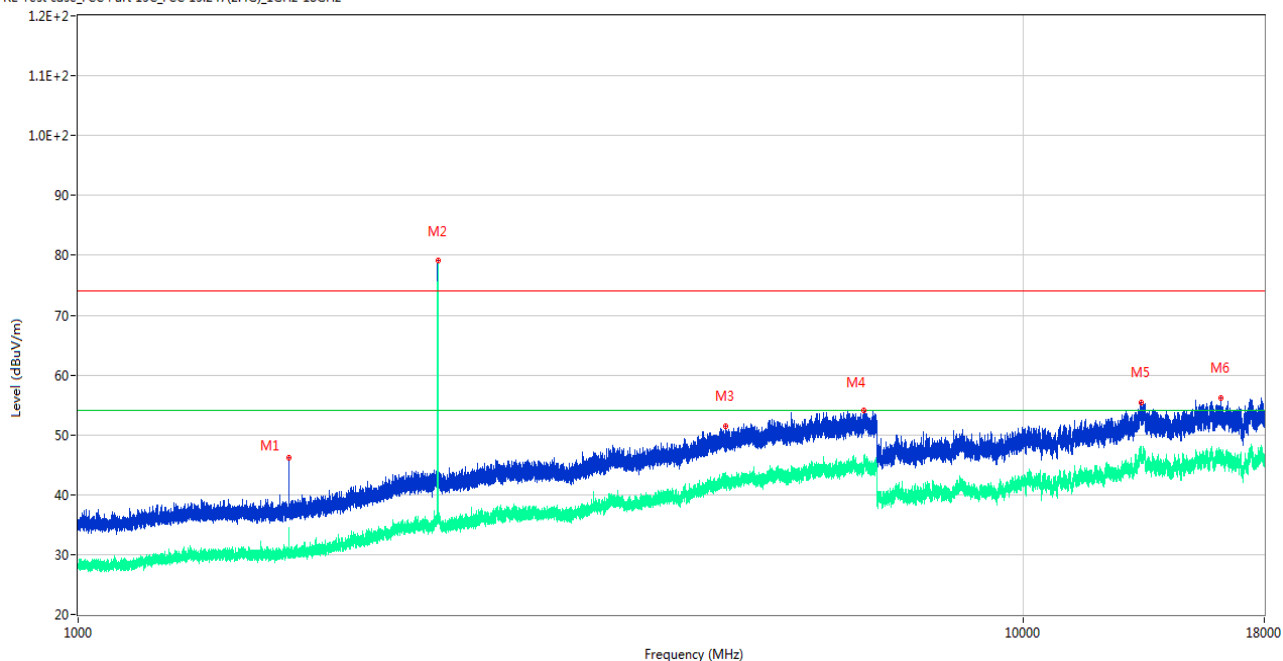
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1429.500	39.65	-17.03	74.0	34.35	Peak	211.00	300	Horizontal	Pass
1**	1429.500	30.16	-17.03	54.0	23.84	AV	211.00	300	Horizontal	Pass
2	2402.000	93.07	-9.74	74.0	-19.07	Peak	235.00	100	Horizontal	N/A
2**	2402.000	90.47	-9.74	54.0	-36.47	AV	235.00	100	Horizontal	N/A
3	4880.200	51.69	-2.69	74.0	22.31	Peak	17.00	150	Horizontal	Pass
3**	4880.200	41.46	-2.69	54.0	12.54	AV	17.00	150	Horizontal	Pass
4	6807.400	54.71	2.02	74.0	19.29	Peak	275.00	200	Horizontal	Pass
4**	6807.400	46.45	2.02	54.0	7.55	AV	275.00	200	Horizontal	Pass
5	13310.701	55.52	0.86	74.0	18.48	Peak	360.00	150	Horizontal	Pass
5**	13310.701	46.74	0.86	54.0	7.26	AV	360.00	150	Horizontal	Pass
6	15682.388	56.03	1.51	74.0	17.97	Peak	242.00	150	Horizontal	Pass
6**	15682.388	46.15	1.51	54.0	7.85	AV	242.00	150	Horizontal	Pass

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

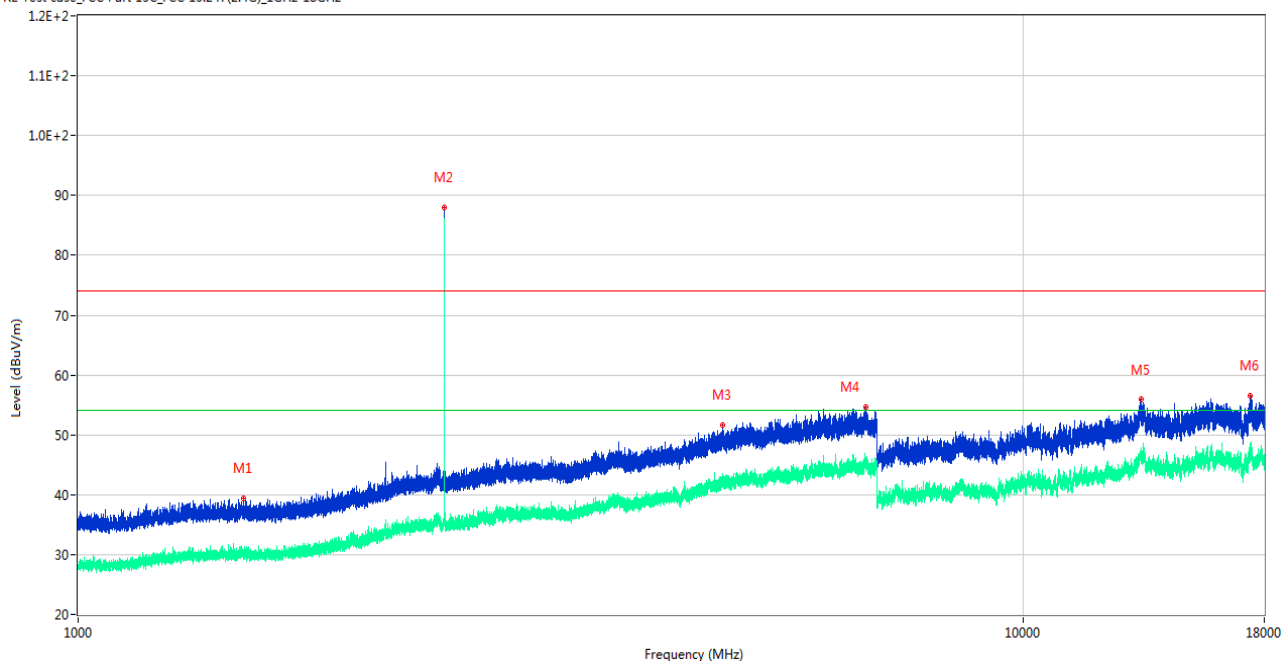
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1670.500	46.24	-16.32	74.0	27.76	Peak	55.00	150	Vertical	Pass
1**	1670.500	30.31	-16.32	54.0	23.69	AV	55.00	150	Vertical	Pass
2	2402.200	79.11	-9.74	74.0	-5.11	Peak	166.00	200	Vertical	N/A
2**	2402.200	78.56	-9.74	54.0	-24.56	AV	166.00	200	Vertical	N/A
3	4849.600	51.51	-2.80	74.0	22.49	Peak	302.00	150	Vertical	Pass
3**	4849.600	42.00	-2.80	54.0	12.00	AV	302.00	150	Vertical	Pass
4	6790.800	54.18	0.79	74.0	19.82	Peak	360.00	200	Vertical	Pass
4**	6790.800	45.42	0.79	54.0	8.58	AV	360.00	200	Vertical	Pass
5	13321.201	55.39	0.91	74.0	18.61	Peak	118.00	150	Vertical	Pass
5**	13321.201	46.58	0.91	54.0	7.42	AV	118.00	150	Vertical	Pass
6	16185.338	56.15	1.53	74.0	17.85	Peak	281.00	100	Vertical	Pass
6**	16185.338	46.94	1.53	54.0	7.06	AV	281.00	100	Vertical	Pass

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

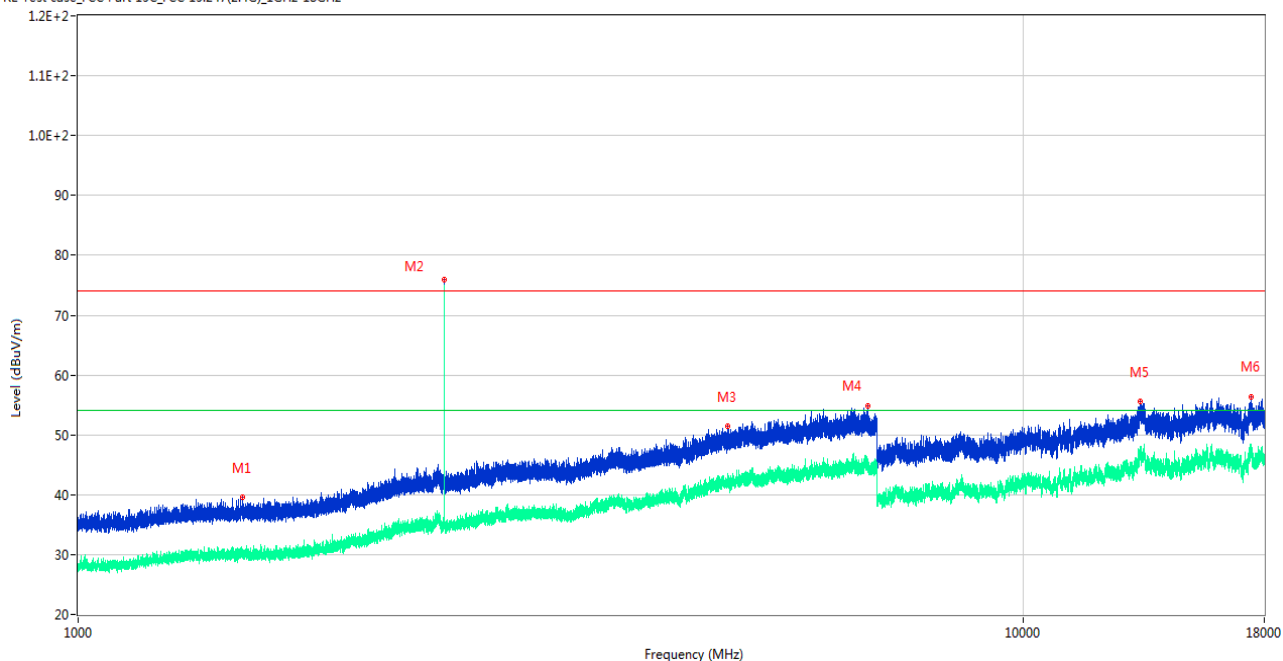
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.900	39.44	-16.85	74.0	34.56	Peak	147.00	400	Horizontal	Pass
1**	1495.900	29.64	-16.85	54.0	24.36	AV	147.00	400	Horizontal	Pass
2	2440.900	87.98	-12.38	74.0	-13.98	Peak	225.00	150	Horizontal	N/A
2**	2440.900	85.42	-12.38	54.0	-31.42	AV	225.00	150	Horizontal	N/A
3	4805.400	51.68	-2.65	74.0	22.32	Peak	27.00	150	Horizontal	Pass
3**	4805.400	42.80	-2.65	54.0	11.20	AV	27.00	150	Horizontal	Pass
4	6810.200	54.57	1.49	74.0	19.43	Peak	286.00	400	Horizontal	Pass
4**	6810.200	45.22	1.49	54.0	8.78	AV	286.00	400	Horizontal	Pass
5	13325.662	56.02	0.93	74.0	17.98	Peak	247.00	150	Horizontal	Pass
5**	13325.662	46.48	0.93	54.0	7.52	AV	247.00	150	Horizontal	Pass
6	17405.438	56.58	3.33	74.0	17.42	Peak	56.00	300	Horizontal	Pass
6**	17405.438	47.01	3.33	54.0	6.99	AV	56.00	300	Horizontal	Pass

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

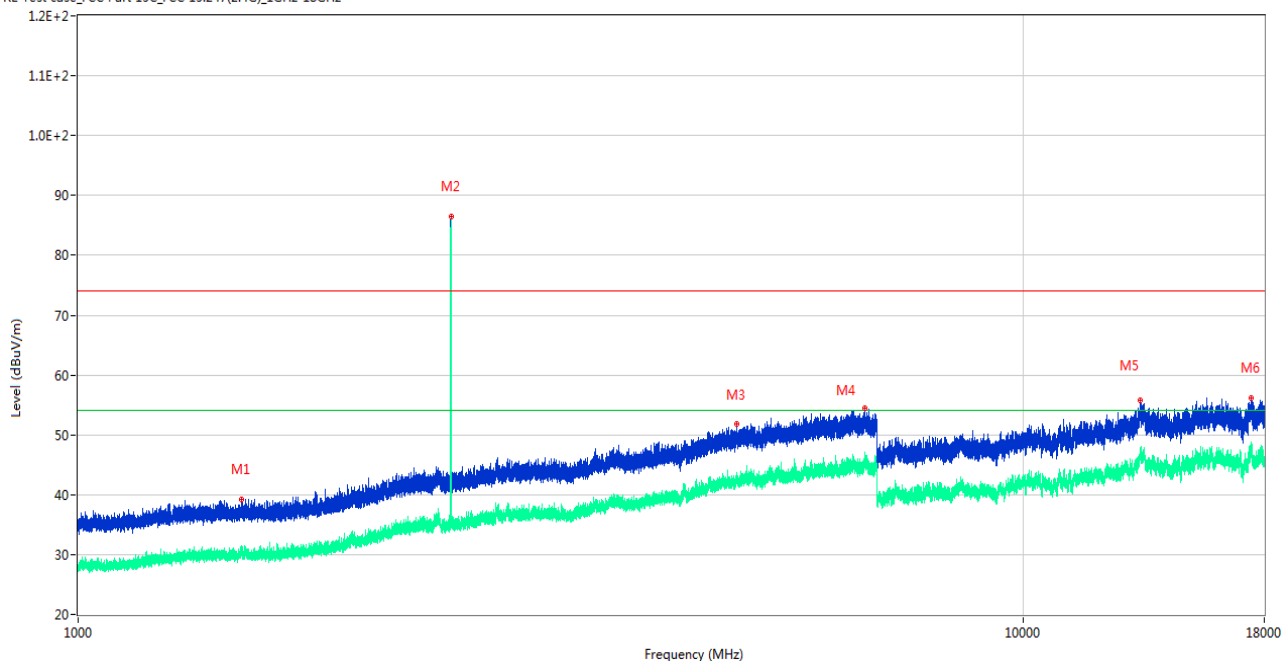
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1492.300	39.54	-16.89	74.0	34.46	Peak	289.00	400	Vertical	Pass
1**	1492.300	30.07	-16.89	54.0	23.93	AV	289.00	400	Vertical	Pass
2	2440.900	75.98	-12.38	74.0	-1.98	Peak	180.00	100	Vertical	N/A
2**	2440.900	74.13	-12.38	54.0	-20.13	AV	180.00	100	Vertical	N/A
3	4864.800	51.37	-2.63	74.0	22.63	Peak	140.00	100	Vertical	Pass
3**	4864.800	42.15	-2.63	54.0	11.85	AV	140.00	100	Vertical	Pass
4	6845.200	54.85	0.43	74.0	19.15	Peak	176.00	200	Vertical	Pass
4**	6845.200	44.65	0.43	54.0	9.35	AV	176.00	200	Vertical	Pass
5	13314.638	55.54	0.88	74.0	18.46	Peak	261.00	150	Vertical	Pass
5**	13314.638	46.67	0.88	54.0	7.33	AV	261.00	150	Vertical	Pass
6	17421.713	56.37	3.71	74.0	17.63	Peak	240.00	100	Vertical	Pass
6**	17421.713	47.16	3.71	54.0	6.84	AV	240.00	100	Vertical	Pass

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

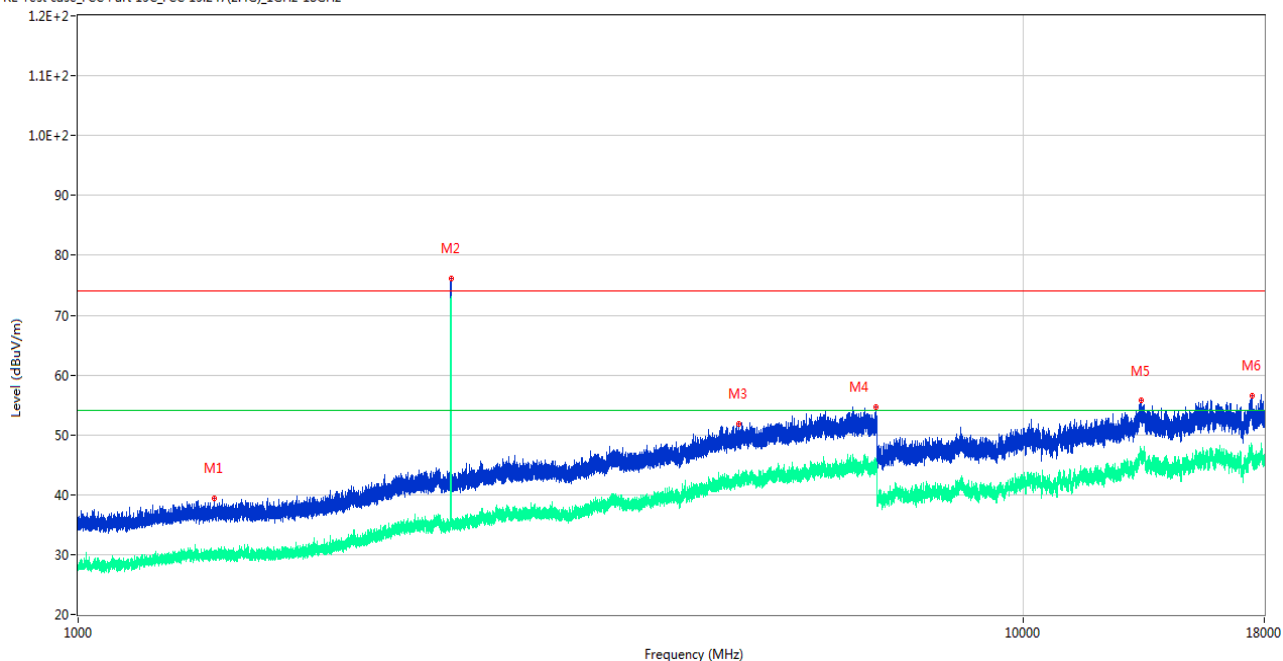
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1487.700	39.26	-16.83	74.0	34.74	Peak	299.00	300	Horizontal	Pass
1**	1487.700	30.76	-16.83	54.0	23.24	AV	299.00	300	Horizontal	Pass
2	2479.900	86.51	-11.32	74.0	-12.51	Peak	245.00	100	Horizontal	N/A
2**	2479.900	84.83	-11.32	54.0	-30.83	AV	245.00	100	Horizontal	N/A
3	4981.400	51.75	-1.60	74.0	22.25	Peak	269.00	100	Horizontal	Pass
3**	4981.400	42.67	-1.60	54.0	11.33	AV	269.00	100	Horizontal	Pass
4	6806.600	54.50	2.28	74.0	19.50	Peak	217.00	300	Horizontal	Pass
4**	6806.600	46.06	2.28	54.0	7.94	AV	217.00	300	Horizontal	Pass
5	13308.338	55.76	0.86	74.0	18.24	Peak	199.00	150	Horizontal	Pass
5**	13308.338	46.28	0.86	54.0	7.72	AV	199.00	150	Horizontal	Pass
6	17424.075	56.25	3.65	74.0	17.75	Peak	41.00	100	Horizontal	Pass
6**	17424.075	47.32	3.65	54.0	6.68	AV	41.00	100	Horizontal	Pass

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

RE Test case_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	1392.200	39.44	-17.12	74.0	34.56	Peak	267.00	300	Vertical	Pass
1**	1392.200	29.98	-17.12	54.0	24.02	AV	267.00	300	Vertical	Pass
2	2479.800	76.13	-11.33	74.0	-2.13	Peak	196.00	200	Vertical	N/A
2**	2479.800	72.76	-11.33	54.0	-18.76	AV	196.00	200	Vertical	N/A
3	4999.400	51.82	-2.41	74.0	22.18	Peak	140.00	100	Vertical	Pass
3**	4999.400	44.16	-2.41	54.0	9.84	AV	140.00	100	Vertical	Pass
4	6987.200	54.70	1.71	74.0	19.30	Peak	128.00	400	Vertical	Pass
4**	6987.200	44.51	1.71	54.0	9.49	AV	128.00	400	Vertical	Pass
5	13329.338	55.74	0.93	74.0	18.26	Peak	0.00	150	Vertical	Pass
5**	13329.338	46.63	0.93	54.0	7.37	AV	0.00	150	Vertical	Pass
6	17467.386	56.59	2.90	74.0	17.41	Peak	219.00	300	Vertical	Pass
6**	17467.386	46.74	2.90	54.0	7.26	AV	219.00	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.

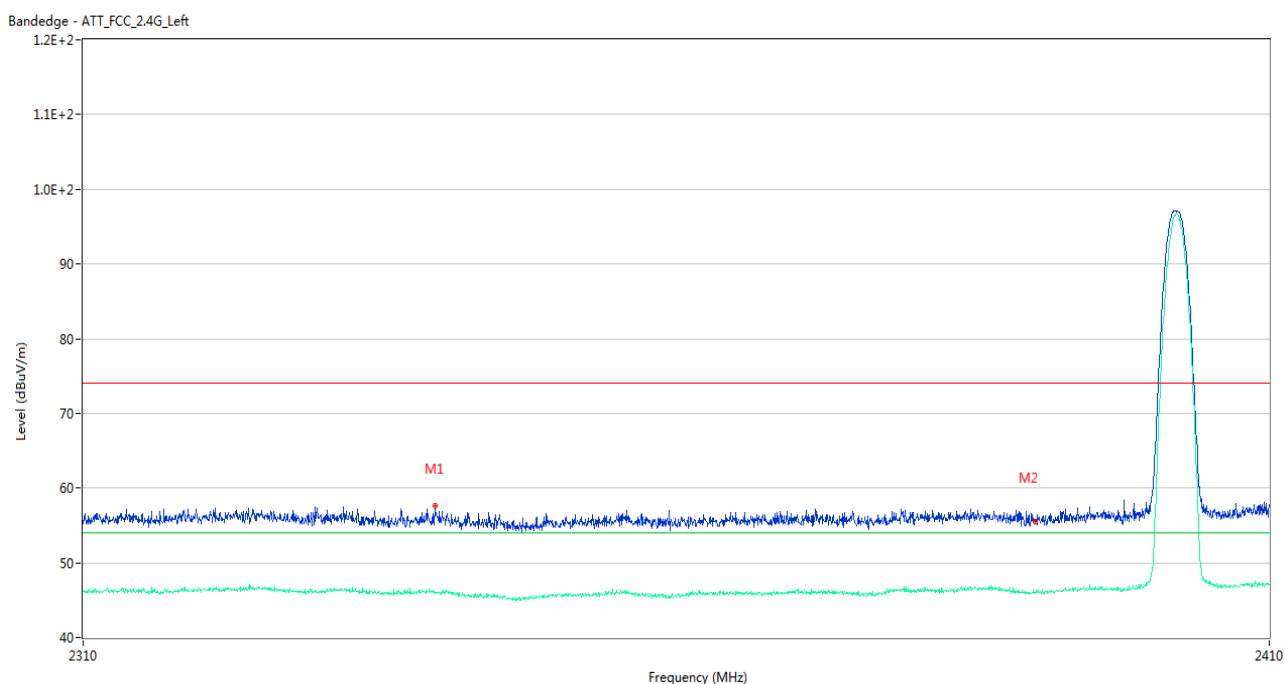
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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 and Plots

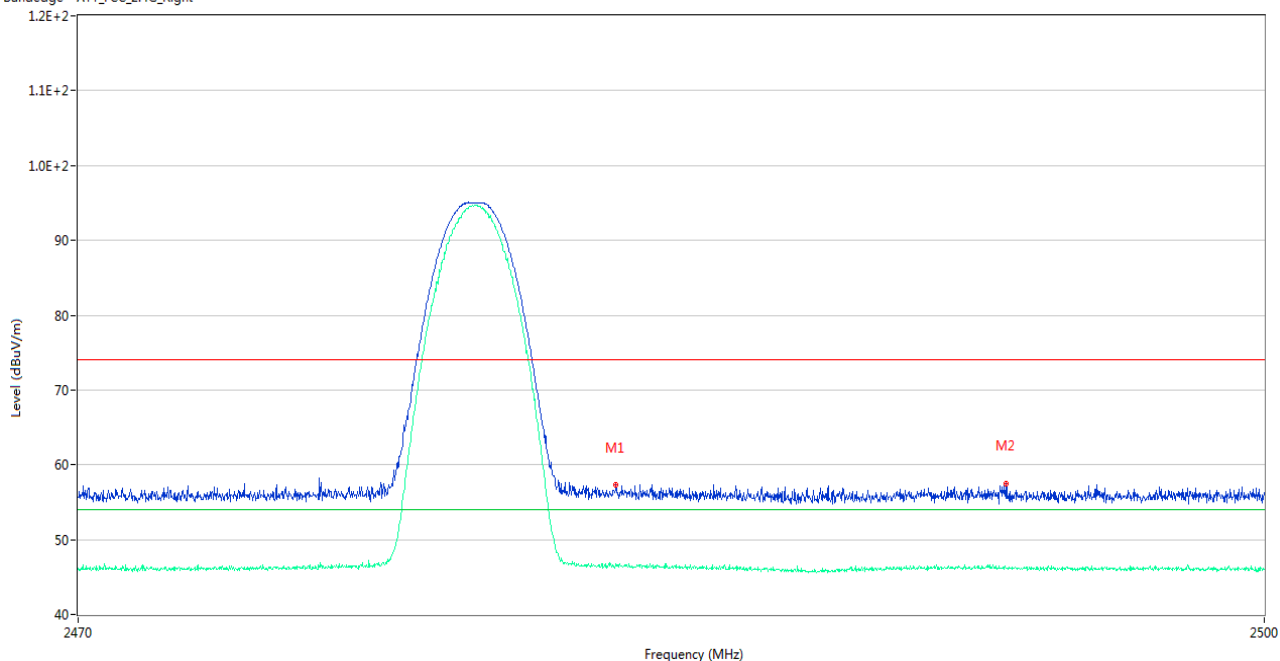
GFSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2339.200	57.58	1.34	74.0	16.42	Peak	287.00	200	Horizontal	Pass
1**	2339.200	45.94	1.34	54.0	8.06	AV	287.00	200	Horizontal	Pass
2	2389.950	55.44	1.92	74.0	18.56	Peak	143.00	200	Horizontal	Pass
2**	2389.950	46.06	1.92	54.0	7.94	AV	143.00	200	Horizontal	Pass

GFSK HIGH CHANNEL

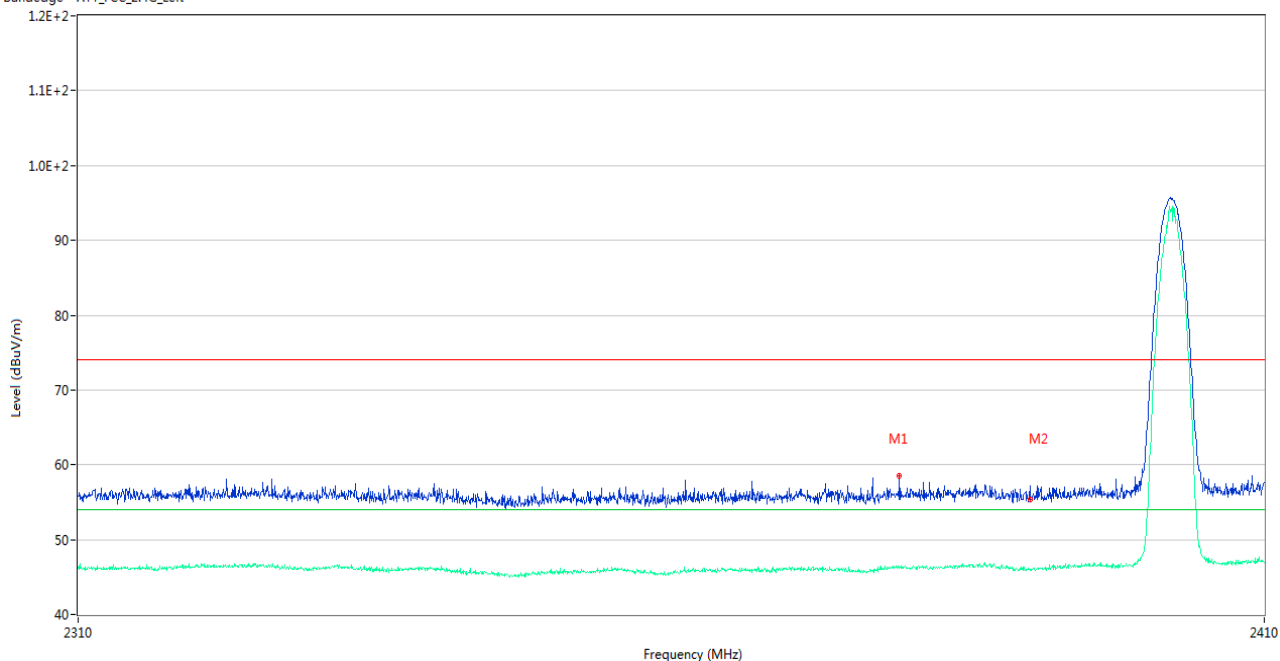
Bandedge - ATT_FCC_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	57.33	2.11	74.0	16.67	Peak	39.00	200	Horizontal	Pass
1**	2483.560	46.75	2.11	54.0	7.25	AV	39.00	200	Horizontal	Pass
2	2493.445	57.53	1.87	74.0	16.47	Peak	360.00	200	Horizontal	Pass
2**	2493.445	46.11	1.87	54.0	7.89	AV	360.00	200	Horizontal	Pass

8-DPSK LOW CHANNEL

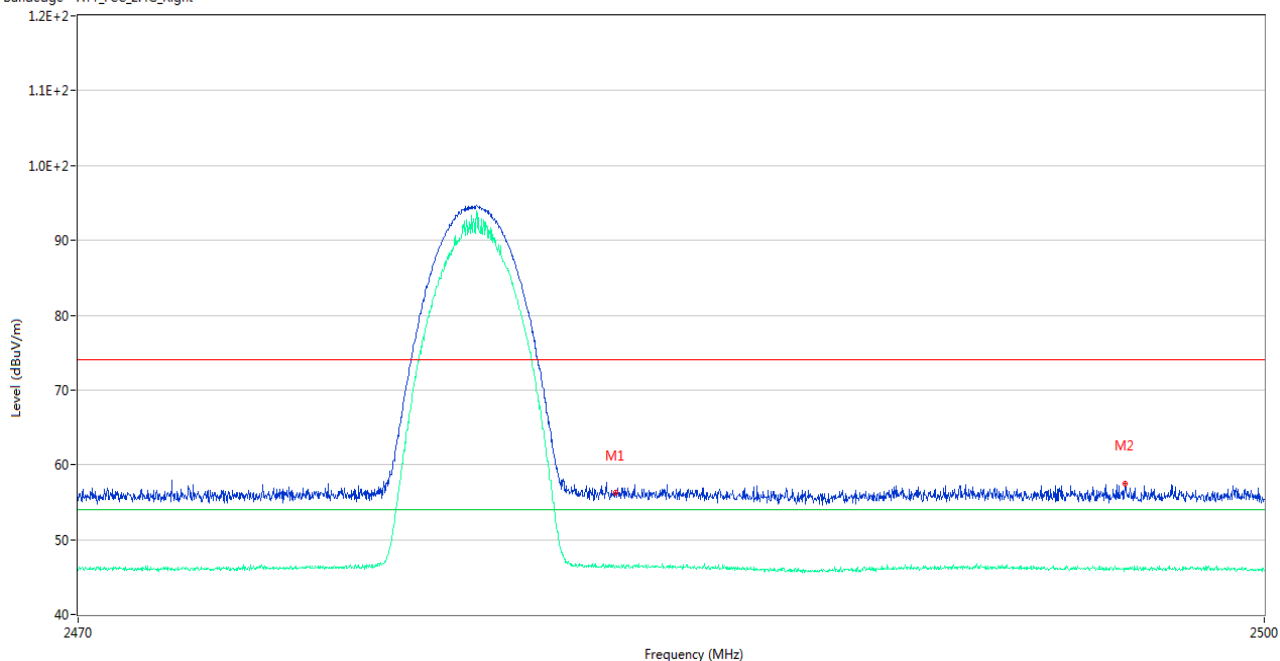
Bandedge - ATT_FCC_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2378.800	58.47	2.25	74.0	15.53	Peak	206.00	200	Horizontal	Pass
1**	2378.800	46.13	2.25	54.0	7.87	AV	206.00	200	Horizontal	Pass
2	2389.950	55.39	1.92	74.0	18.61	Peak	126.00	200	Horizontal	Pass
2**	2389.950	46.04	1.92	54.0	7.96	AV	126.00	200	Horizontal	Pass

8-DPSK HIGH CHANNEL

Bandedge - ATT_FCC_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	56.29	2.11	74.0	17.71	Peak	112.00	150	Horizontal	Pass
1**	2483.545	46.43	2.11	54.0	7.57	AV	112.00	150	Horizontal	Pass
2	2496.460	57.54	1.70	74.0	16.46	Peak	0.00	150	Horizontal	Pass
2**	2496.460	46.24	1.70	54.0	7.76	AV	0.00	150	Horizontal	Pass

ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



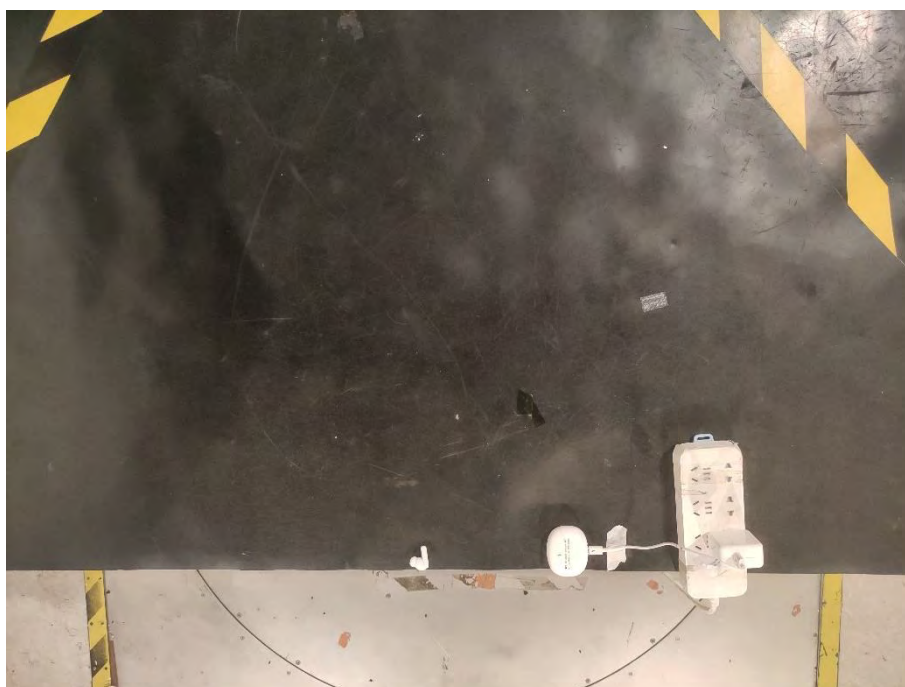
Close-up



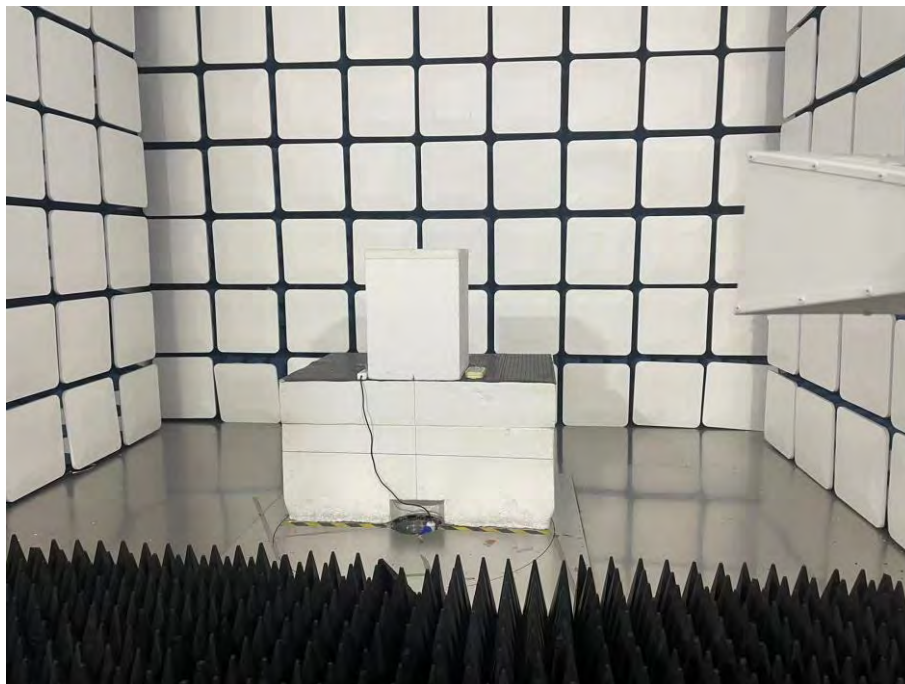
30MHz-1GHz



Close-up



Above 1GHz



Close-up



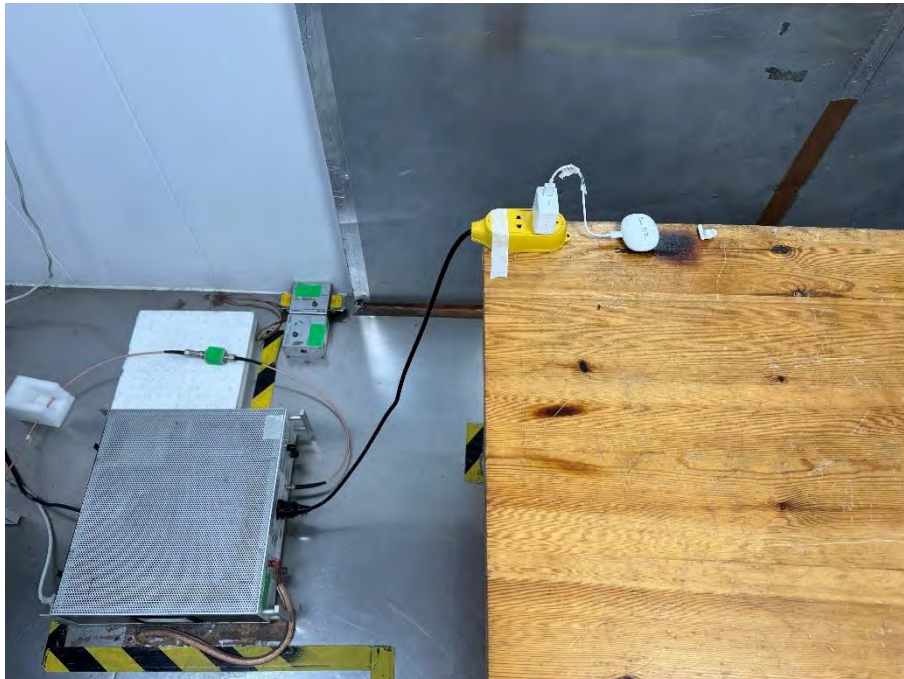
2 Conducted Test Photo

Conducted Test



3 Conducted Emissions

Test Photo 1



Test Photo 2



ANNEX B EUT EXTERNAL PHOTOS

FRONT VIEW OF EUT



REAR VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



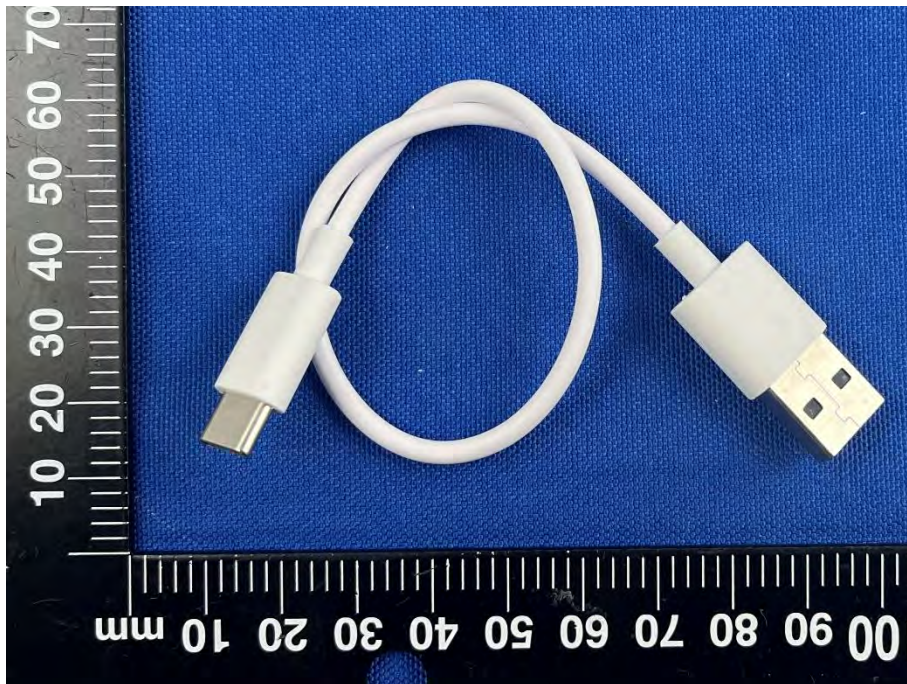
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



Accessory-Type-C Cable

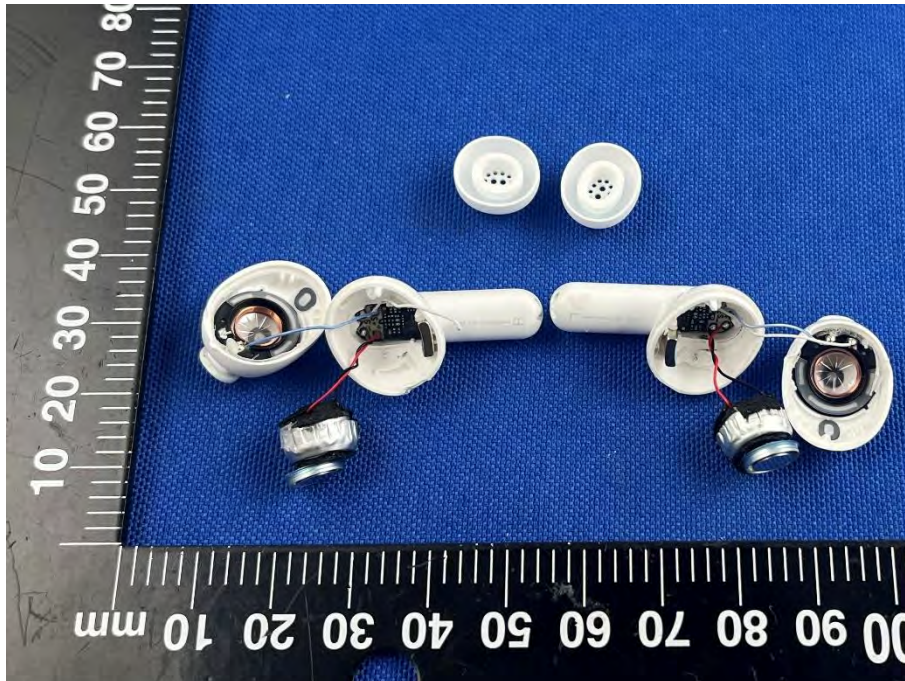


Accessory-Charging case



ANNEX C EUT INTERNAL PHOTOS

EUT UNCOVER VIEW 1



EUT UNCOVER VIEW 2



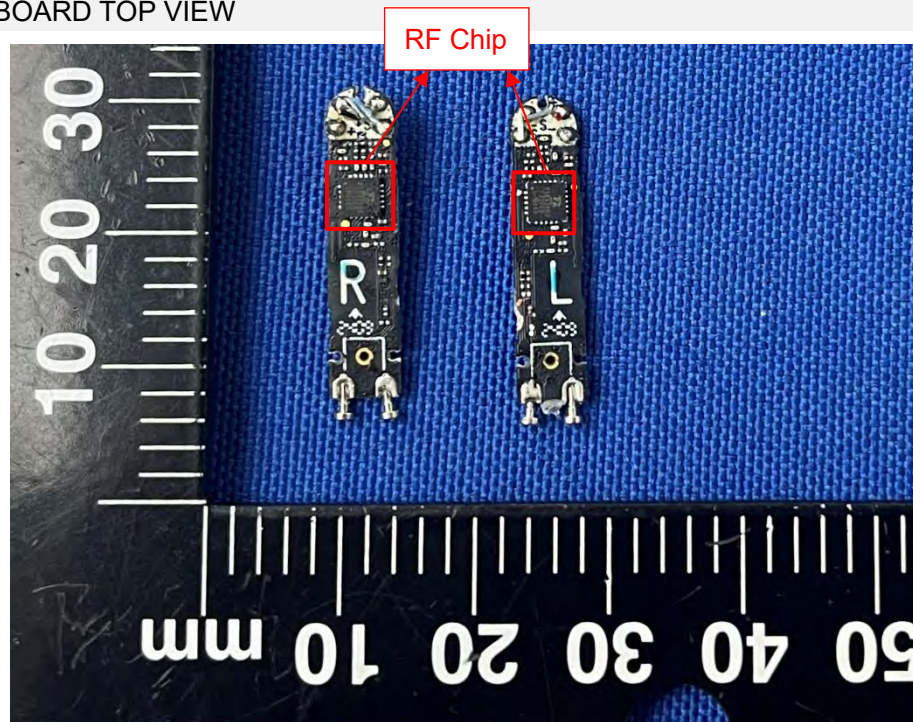
EUT UNCOVER VIEW 3



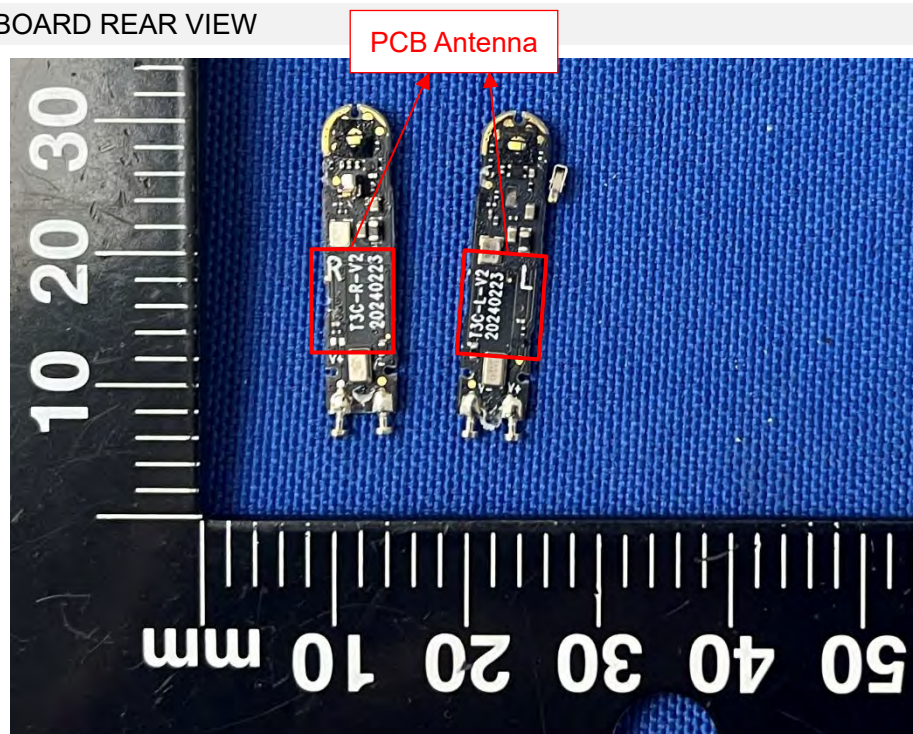
EUT UNCOVER VIEW 4



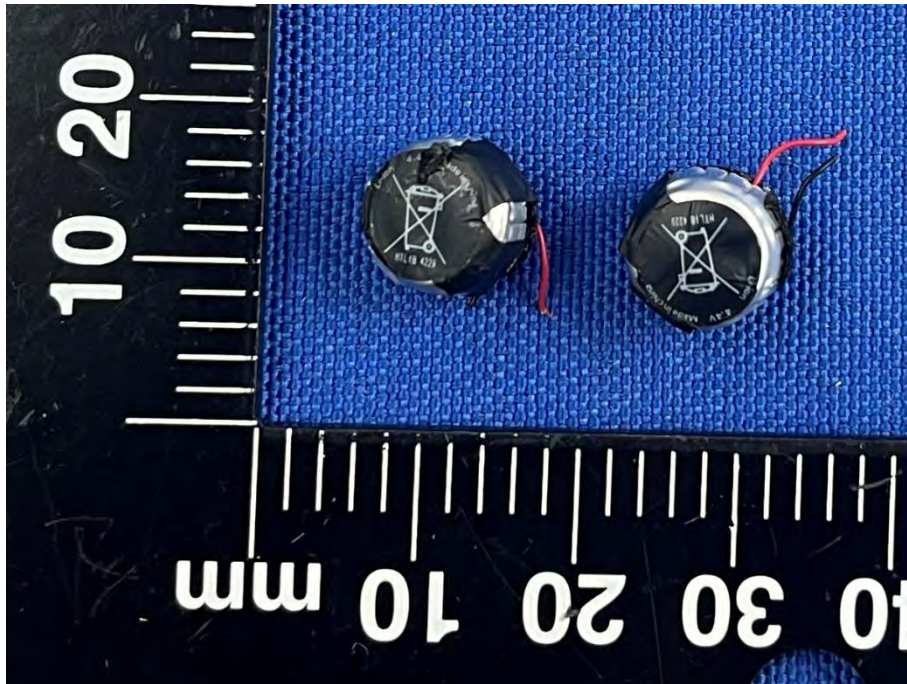
MAIN BOARD TOP VIEW



MAIN BOARD REAR VIEW



BATTERY (FRONT)



BATTERY (REAR)



Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--