

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

FCC Compliance Test Report for

Product name: Guitar Controller

Model name: CK25GP

FCC ID: 2BAXLCK25GP

Test Report Number: EFGX25100233-IE-07-E03

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

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Operator:

2025-11-11

Bruce Zheng / Project Engineer



Date

Eurofins-Lab.

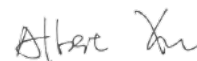
Name / Title

Signature

Technical responsibility for area of testing:

2025-11-11

Albert Xu / Lab Manager



Date

Eurofins-Lab.

Name / Title

Signature

1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088

1.3 Details of applicant

Name	:	Freemode Go LLC dba CRKD
Address	:	3142 Constitution drive , Livermore, California, United States
Telephone	:	./.
Fax	:	./.

1.4 Details of manufacturer

Name	:	Freemode Go LLC dba CRKD
Address	:	3142 Constitution drive , Livermore, California, United States
Telephone	:	./.
Fax	:	./.

1.5 Application details

Date of receipt of application : 2025-10-21
 Date of receipt of test item : 2025-10-21
 Date of test : 2025-10-21 to 2025-11-11
 Date of issue : 2025-11-11

1.6 Test item

Product type : Guitar Controller
 Model name : CK25GP
 Brand : ./.
 Sample ID : 251021-21-002
 Serial number : ./.
 Hardware Version : V1.05
 Software / Firmware Version : V2.03
 Ratings : Input: DC 5.0V
 3.7V battery or 3.0V, 2*“AA” Battery
 Test voltage : 3.7V
 Additional information : ./

RadioTechnical data

Frequency range : 2402MHz – 2480MHz
 Radio Tech. : 2.4G SRD
 Frequency channel : 40
 Modulation : GFSK
 Antenna type : Internal antenna

1.7 Test standards

Test Standards	
FCC Part 15 Subpart C December 16, 2020	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

Test Method

- 1: ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- 2: ANSI C63.10-2020, American National Standard for Testing Unlicensed Wireless Devices.

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



2.2 Test environment

RF Conducted

Environment Parameter	Temperature	Relative Humidity
101.2Kpa	24.6	62.6%

Radiated

Environment Parameter	Temperature	Relative Humidity
101.2Kpa	23.7	51.7%

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty in conducted measurements	1.96dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05×10 ⁻⁷ or 1%
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.46dB; Vertical: 4.54dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.42dB; Vertical: 4.41dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.63dB; Vertical: 4.62dB;

2.4 Test mode

Channel List

CHANNEL	FREQ. (MHZ)	CHAN- NEL	FREQ. (MHZ)	CHAN- NEL	FREQ. (MHZ)	CHAN- NEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

The EUT was set at continuously transmitting mode during the test.
The Lowest Channel 0, Middle 19 and Highest 39 were selected for test in the report

2.5 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-13-05	EMI Test Receiver	ESR3	2026-03-25
23-2-13-06	LISN	NNLK 8127 RC	2026-03-25
23-2-10-16	Attenuator	VTSD 9561-F	2026-03-25
23-2-13-12	Signal Analyzer	N9010B-544	2026-03-25
23-2-13-13	BT/WLAN Tester	CMW270	2026-03-25
23-2-13-14	Signal Generator	N5183B-520	2026-03-25
23-2-13-15	Vector Signal Generator	N5182B-506	2026-03-25
23-2-10-43	Switch and Control Unit	ERIT-E-JS0806-2	2026-03-25
23-2-10-44	DC power supply	E3642A	2026-03-25
23-2-10-45	Temperature test chamber	SG-80-CC-2	2026-03-25
23-2-13-01	EMI Test Receiver	ESR7	2026-03-25
23-2-13-02	Signal Analyzer	N9020B-544	2026-03-25
23-2-12-01	Active Loop Antenna	FMZB 1519B	2026-05-05
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2026-05-05
23-2-12-03	Horn Antenna	3117	2026-05-05
23-2-12-04	Horn Antenna	BBHA 9170	2026-05-05
23-2-10-01	Preamplifier	BBV9745	2026-03-25
23-2-10-02	Preamplifier	TAP01018048	2026-03-25
23-2-10-03	Preamplifier	TAP18040048	2026-03-25
23-2-10-14	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A

2.6 Auxiliary Equipment Used during Test:

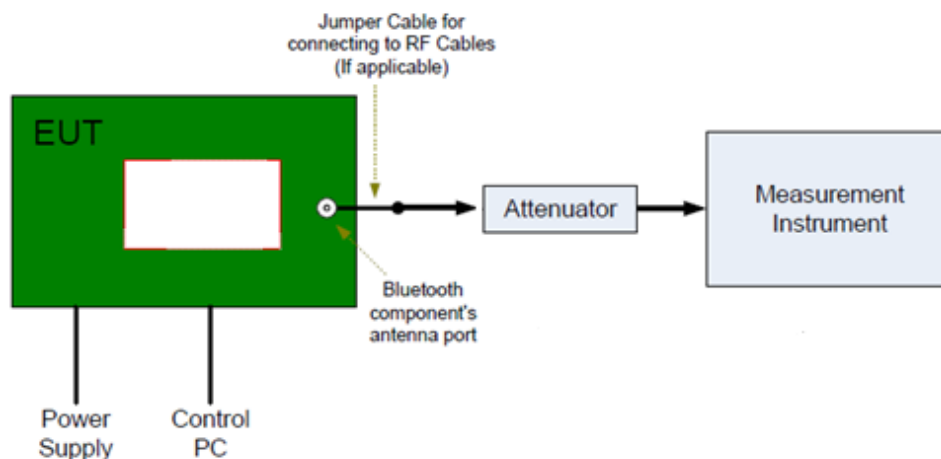
DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Laptop	LENOVO	TP00096A	PF-1QH0LV

2.7 Test software information:

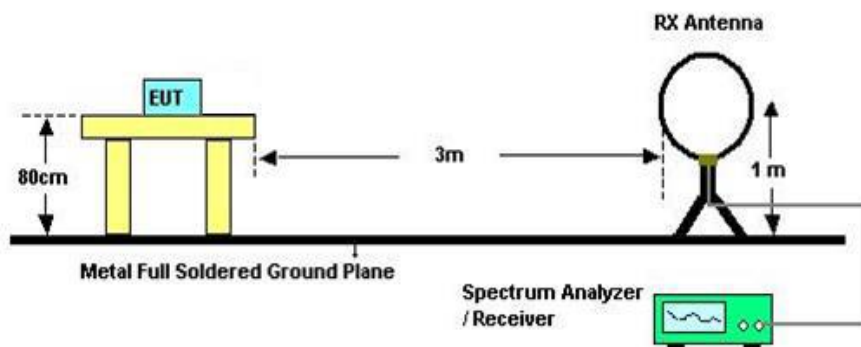
Test Software Version	EMI TOOL		
Modulation	Setting TX Power	TX Pattern	Packet Type
GFSK	0	TX Packet	1M/2M

2.8 Test setup

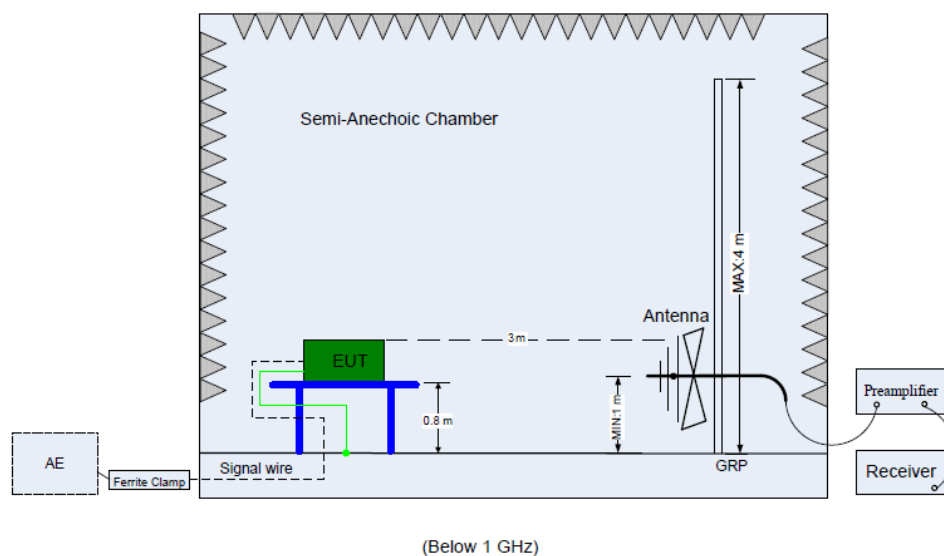
Setup diagram for conducted tests



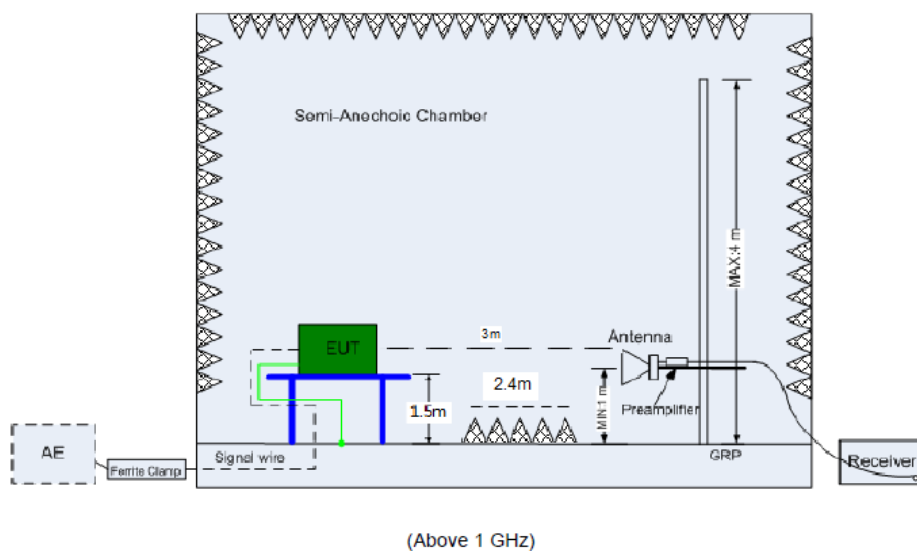
Setup diagram for radiated tests below 30MHz



Setup diagram for radiated tests below 1GHz



Setup diagram for radiated tests above 1GHz



2.9 Test results

☒ 1st test

☐ test after modification

☐ production test

Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Test Result	Verdict	Test Site
§15.207	Conducted emission AC power port	See page 13	Pass	Site 1
§15.215(c)(1)	20dB bandwidth	See page 16	Pass	Site 1
§15.249(a)&(d)&§15.209 &§15.205	Radiated emission	See page 21	Pass	Site 1
§15.203	Antenna requirement	See note 1	Pass	--

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses internal antenna. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

3 Technical requirement and result

3.1 Conducted emission AC power port

Test Method:

The test method was referred to the subclause 6.2 of ANSI C63.10-2020.

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both Neutral and Live lines.

Limit:

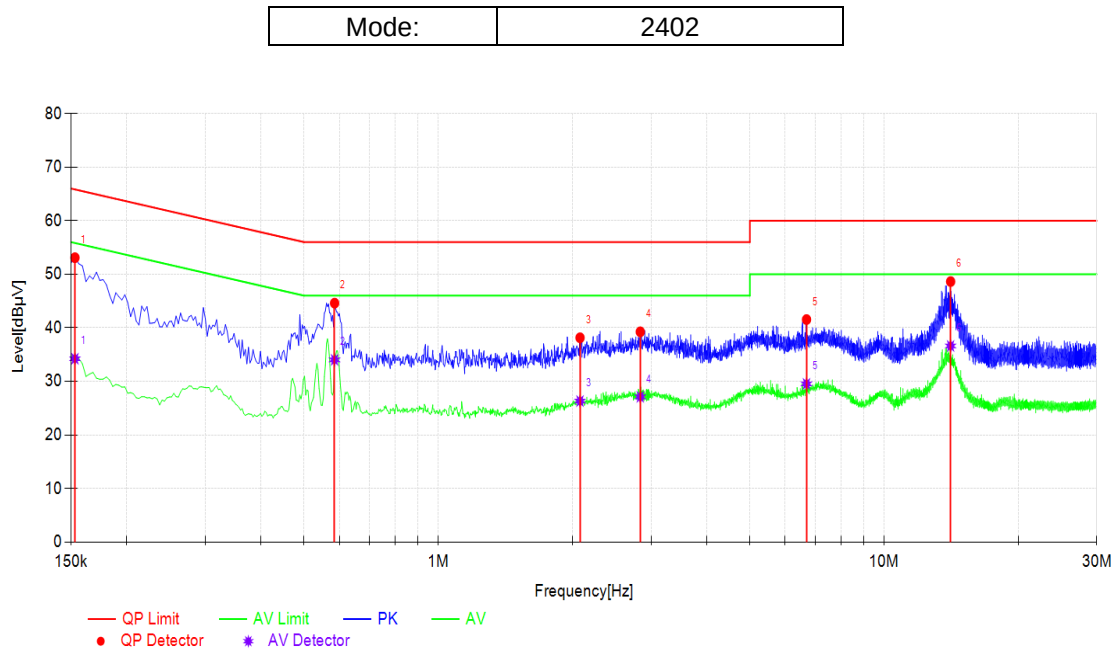
FCC §15.207 (a)

Frequency	QP Limit	AV Limit
MHz	dB μ V	dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

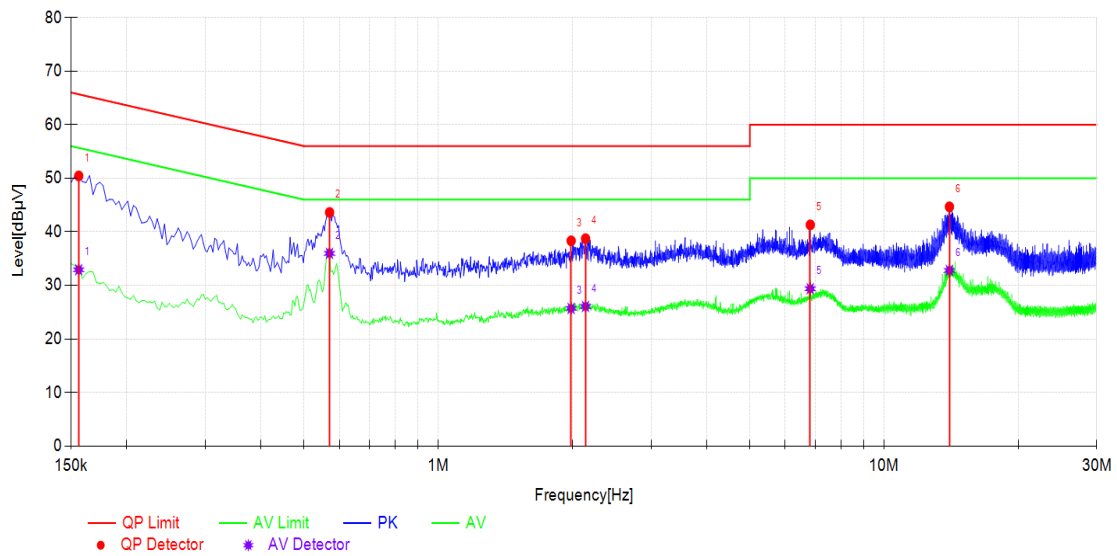
Decreasing linear.

Test Result:

During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.153	12.26	53.10	65.84	12.74	34.23	55.84	21.61	L1	PASS
2	0.585	12.25	44.61	56.00	11.39	34.03	46.00	11.97	L1	PASS
3	2.079	12.28	38.15	56.00	17.85	26.33	46.00	19.67	L1	PASS
4	2.838	12.29	39.26	56.00	16.74	27.11	46.00	18.89	L1	PASS
5	6.699	12.41	41.55	60.00	18.45	29.54	50.00	20.46	L1	PASS
6	14.104	12.54	48.64	60.00	11.36	36.62	50.00	13.38	L1	PASS



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.156	12.35	50.45	65.67	15.22	32.92	55.67	22.75	N	PASS
2	0.57	12.25	43.63	56.00	12.37	35.98	46.00	10.02	N	PASS
3	1.986	12.38	38.33	56.00	17.67	25.71	46.00	20.29	N	PASS
4	2.139	12.38	38.73	56.00	17.27	26.07	46.00	19.93	N	PASS
5	6.831	12.42	41.31	60.00	18.69	29.38	50.00	20.62	N	PASS
6	14.017	12.62	44.68	60.00	15.32	32.80	50.00	17.20	N	PASS

3.2 20 dB bandwidth

Test Method:

The test method was referred to the subclause 6.9.2 of ANSI C63.10-2020.

The occupied bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band.

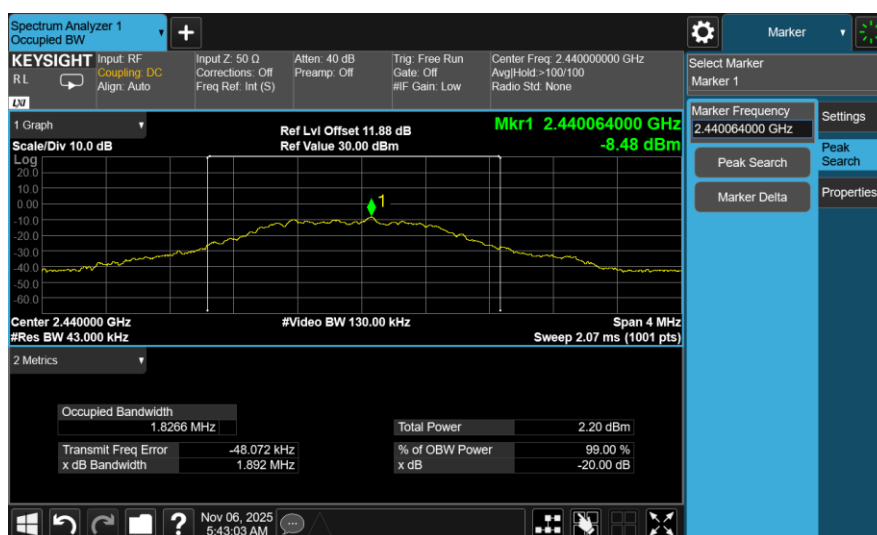
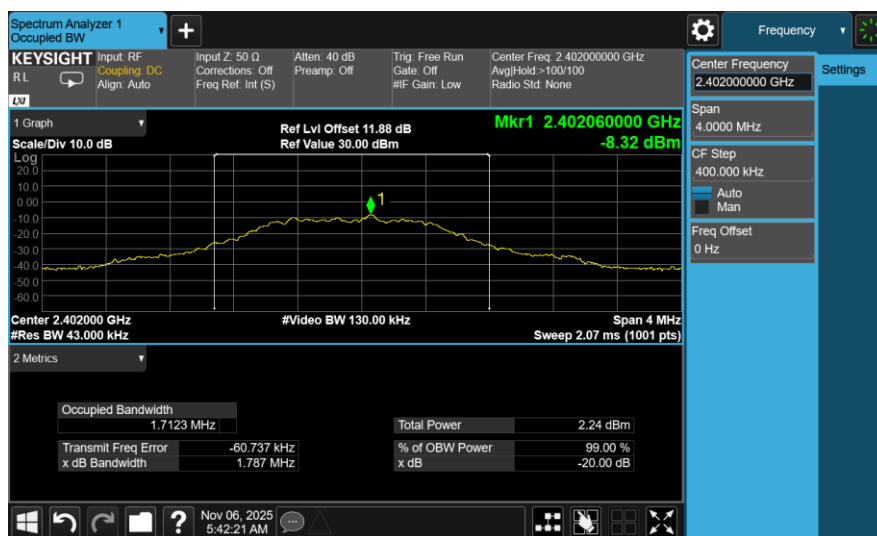
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Limit:

None; for reporting purposes only.

Test Result:

Channel	20db EBW[MHz]	Verdict
2402	1.787	PASS
2440	1.892	PASS
2480	2.011	PASS





3.3 Radiated emission

Test Method:

The test method was referred to the subclause 11.11/11.12 of ANSI C63.10-2020.

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 1MHz, VBW ≥ RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 KHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 30MHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 200 Hz, VBW ≥ RBW from 9KHz to 0.15MHz, RBW 9KHz VBW ≥ RBW from 0.15MHz to 30MHz for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 5: When duty cycle < 98%, The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $VBW \geq 1 / T$, the T is transmission duration (T).

Limit:

FCC §15.209

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

§15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	
13.36-13.41			

FCC §15.249(a)

Fundamental frequency	Field strength of fundamental (mV/m)	Field strength of fundamental (dBμV/m)	Field strength of harmonics (μV/m)	Field strength of harmonics (dBμV/m)
902-928 MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25 GHz	250	128	2500	68

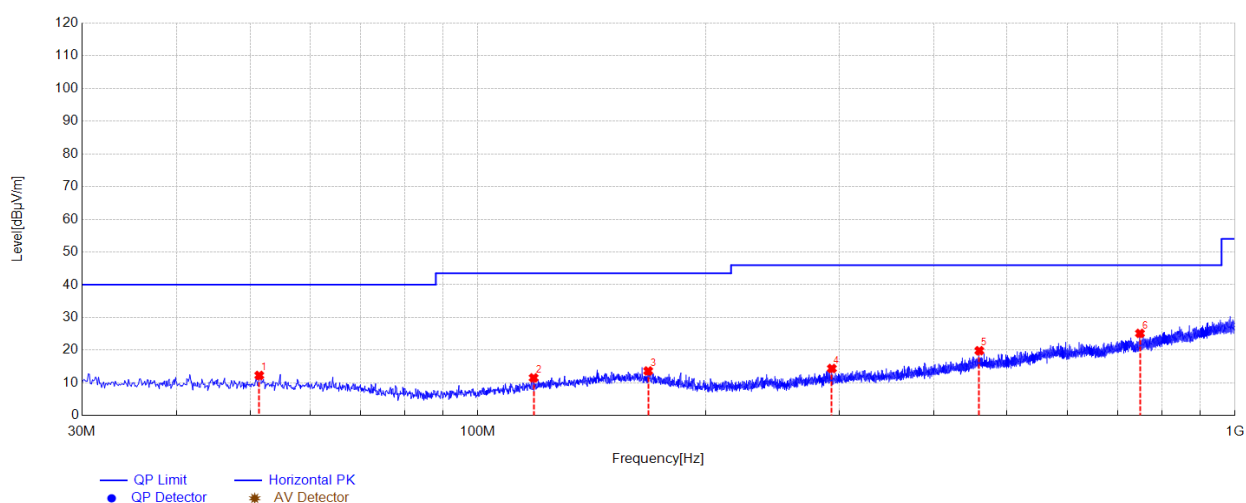
Test Result:

After the pretest, Antenna 2 was selected as the worst antenna and recorded in the report.

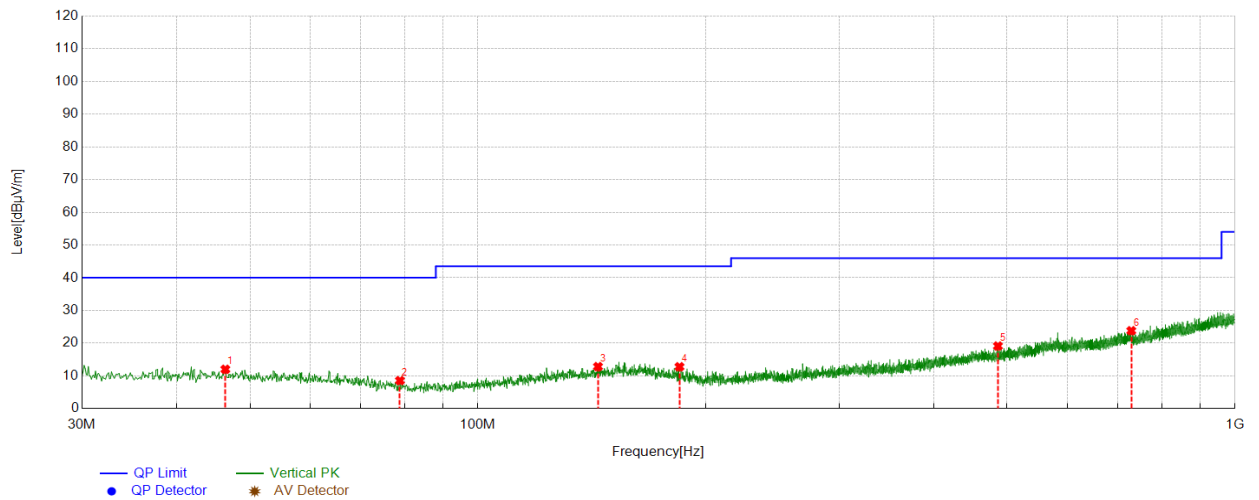
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-26.5GHz are more than 20dB below the limit are not reported.

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.

Mode:	2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.4391	12.31	-16.61	40.00	27.69	150	169	Horizontal
2	118.472	11.56	-18.04	43.50	31.94	150	39	Horizontal
3	167.850	13.67	-16.39	43.50	29.83	150	141	Horizontal
4	293.478	14.42	-16.49	46.00	31.58	150	94	Horizontal
5	459.559	19.86	-11.91	46.00	26.14	150	29	Horizontal
6	748.938	25.15	-7.07	46.00	20.85	150	4	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.3946	12.03	-16.27	40.00	27.97	150	253	Vertical
2	78.8929	8.59	-20.02	40.00	31.41	150	100	Vertical
3	144.083	12.86	-16.65	43.50	30.64	150	103	Vertical
4	184.633	12.81	-18.25	43.50	30.69	150	203	Vertical
5	486.236	19.15	-11.91	46.00	26.85	150	80	Vertical
6	729.439	23.82	-7.36	46.00	22.18	150	346	Vertical

Mode:	2402
-------	------

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1237.6	43.04	2.53	74.00	30.96	150	247	Horizontal
2	1928.8	45.58	6.16	74.00	28.42	150	4	Horizontal
3	4805.25	46.55	-13.93	74.00	27.45	150	39	Horizontal
4	6640.5	43.48	-11.20	74.00	30.52	150	213	Horizontal
5	9012	45.39	-8.26	74.00	28.61	150	143	Horizontal
6	13807.5	46.51	-0.43	74.00	27.49	150	325	Horizontal

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.8	42.91	2.42	74.00	31.09	150	347	Vertical
2	2014.8	45.37	6.57	74.00	28.63	150	63	Vertical
3	3953.25	45.93	-15.61	74.00	28.07	150	249	Vertical
4	4804.5	50.39	-13.97	74.00	23.61	150	353	Vertical
5	6565.5	47.56	-11.11	74.00	26.44	150	74	Vertical
6	11239.5	47.52	-3.90	74.00	26.48	150	249	Vertical

Mode:	2440
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Suspected Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1327.6	42.80	2.45	74.00	31.20	150	203	Horizontal
2	1824	44.16	5.74	74.00	29.84	150	257	Horizontal
3	4880.25	47.91	-13.68	74.00	26.09	150	74	Horizontal
4	6919.5	44.13	-10.84	74.00	29.87	150	257	Horizontal
5	9382.5	46.13	-7.47	74.00	27.87	150	109	Horizontal
6	13647	48.37	-0.40	74.00	25.63	150	109	Horizontal

Suspected Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1337.2	43.17	2.42	74.00	30.83	150	269	Vertical
2	1939.6	45.71	6.08	74.00	28.29	150	108	Vertical
3	4881	50.99	-13.66	74.00	23.01	150	82	Vertical
4	6346.5	44.84	-10.58	74.00	29.16	150	360	Vertical
5	9685.5	46.61	-6.66	74.00	27.39	150	152	Vertical
6	11267.2	47.96	-3.97	74.00	26.04	150	256	Vertical

Mode:	2480
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Suspected Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1246	42.87	2.50	74.00	31.13	150	344	Horizontal
2	1928.8	45.52	6.16	74.00	28.48	150	146	Horizontal
3	4961.25	47.02	-14.54	74.00	26.98	150	318	Horizontal
4	6990	44.35	-10.38	74.00	29.65	150	353	Horizontal
5	9407.25	46.37	-7.59	74.00	27.63	150	248	Horizontal
6	14076	49.29	-0.03	74.00	24.71	150	109	Horizontal

Suspected Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1304.8	42.67	2.68	74.00	31.33	150	7	Vertical
2	2028	45.36	6.41	74.00	28.64	150	29	Vertical
3	3939	44.69	-16.05	74.00	29.31	150	82	Vertical
4	4959.75	47.76	-14.68	74.00	26.24	150	39	Vertical
5	8694	44.94	-8.99	74.00	29.06	150	125	Vertical
6	11308.5	47.40	-3.96	74.00	26.60	150	82	Vertical

Band-edge (Radiated)

Mode:	2402
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Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	46.51	6.96	74.00	27.49	150	331	Horizontal
2	2321.44	49.06	7.16	74.00	24.94	150	331	Horizontal
3	2344.8	49.06	7.32	74.00	24.94	150	115	Horizontal
4	2364.88	49.22	7.54	74.00	24.78	150	299	Horizontal
5	2369.36	48.33	7.53	74.00	25.67	150	168	Horizontal
6	2400	48.75	8.28	74.00	25.25	150	248	Horizontal

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	46.99	6.96	74.00	27.01	150	292	Vertical
2	2328.08	49.09	7.15	74.00	24.91	150	50	Vertical
3	2342.4	48.62	7.19	74.00	25.38	150	74	Vertical
4	2363.68	50.36	7.48	74.00	23.64	150	203	Vertical
5	2370.72	48.86	7.61	74.00	25.14	150	18	Vertical
6	2400	48.47	8.28	74.00	25.53	150	199	Vertical

Mode:	2480
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PK Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	7.53	55.62	74.00	18.38	150	238	Horizontal
2	2485.381	7.58	56.75	74.00	17.25	150	143	Horizontal
3	2487.9055	7.55	56.88	74.00	17.12	150	312	Horizontal
4	2494.093	7.68	56.82	74.00	17.18	150	262	Horizontal
5	2497.3105	7.68	56.56	74.00	17.44	150	238	Horizontal
6	2500	7.60	55.48	74.00	18.52	150	35	Horizontal

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	7.53	48.02	54.00	5.98	150	238	Horizontal
2	2485.381	7.58	47.98	54.00	6.02	150	143	Horizontal
3	2487.9055	7.55	48.40	54.00	5.60	150	312	Horizontal
4	2494.093	7.68	47.60	54.00	6.40	150	262	Horizontal
5	2497.3105	7.68	48.04	54.00	5.96	150	238	Horizontal
6	2500	7.60	42.87	54.00	11.13	150	35	Horizontal

PK Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	7.53	55.98	74.00	18.02	150	360	Vertical
2	2484.2755	7.55	57.35	74.00	16.65	150	68	Vertical
3	2486.1565	7.55	56.63	74.00	17.37	150	182	Vertical
4	2491.618	7.65	56.65	74.00	17.35	150	124	Vertical
5	2496.0235	7.65	57.05	74.00	16.95	150	124	Vertical
6	2500	7.60	55.25	74.00	18.75	150	217	Vertical

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	7.53	48.52	54.00	5.48	150	360	Vertical
2	2484.2755	7.55	47.24	54.00	6.76	150	68	Vertical
3	2486.1565	7.55	47.44	54.00	6.56	150	182	Vertical
4	2491.618	7.65	47.75	54.00	6.25	150	124	Vertical
5	2496.0235	7.65	48.21	54.00	5.79	150	124	Vertical
6	2500	7.60	42.91	54.00	11.09	150	217	Vertical

Level = Read level + Factor

Factor= Antenna Factor + Cable loss – Preamp Factor

Field strength of fundamental

PK Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2402	82.66	22.88	114.00	31.34	150	246	Horizontal
2	2402	79.80	22.88	114.00	34.20	150	165	Vertical
3	2440	83.00	23.17	114.00	31.00	150	159	Horizontal
4	2440	81.88	23.17	114.00	32.12	150	119	Vertical
5	2480	83.90	23.42	114.00	30.10	150	252	Horizontal
6	2480	82.86	23.41	114.00	31.14	150	133	Vertical

-END OF REPORT-