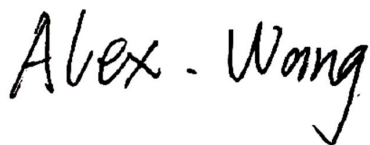


TEST REPORT

Application No.: BTEK260331006A04E01
Applicant: ShenZhen Hysincere Battery Co., Ltd.
Address of Applicant: Room 611, Bldg D, Bantian International Center, Bantian St.,
Longgang DIST., Shenzhen
Manufacturer: DONGGUAN HYSINCERE BATTERY CO., LTD.
Address of Manufacturer: Room 301, 2nd floor, 10th Longjiang second road, Xie keng, Qingxi town,
Dongguan city, Guangdong province, China
Equipment Under Test (EUT):
EUT Name: LiFePO4 Battery
Test Model.: 25.6V314Ah
Adding Model(s): /
Trade Mark: /
FCC ID: 2BTED-25-6V314AH
Standard(s) : 47 CFR Part 15, Subpart C 15.247
KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2020
Date of Receipt Sample(s): 2026-04-14
Date of Test: 2026-04-14 to 2026-05-17
Date of Issue: 2026-05-18

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Alex Wang / Approved & Authorized
EMC Laboratory Manager



Revision Record			
Version	Issue Date	Revisions	Remarks
V0	2026-05-18	Initial	Valid

Authorized for issue by:			
		<i>Karl Liu</i>	
		Karl Liu / File Editor	
		<i>June Li</i>	
		June Li/Reviewer	

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Test Summary

Radio Spectrum Technical Requirement				
Standard	Item	Method	Requirement	Result
47 CFR Part 15, Subpart C 15.247	Antenna Requirement	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Standard	Item	Method	Requirement	Result
47 CFR Part 15, Subpart C 15.247	Conducted Emissions at AC Power Line (150kHz-30MHz)	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A
	Conducted Peak Output Power	ANSI C63.10 (2020) Section 11.9	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
	Minimum 6dB Bandwidth	ANSI C63.10 (2020) Section 11.8	47 CFR Part 15, Subpart C 15.247a(2)	Pass
	Power Spectrum Density	ANSI C63.10 (2020) Section 11.10	47 CFR Part 15, Subpart C 15.247(e)	Pass
	Conducted Band Edges Measurement	ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Conducted Spurious Emissions	ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Radiated Emissions which fall in the restricted bands	ANSI C63.10 (2020) Section 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
	Radiated Spurious Emissions	ANSI C63.10 (2020) Section 6.3 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	5
4.1 Details of E.U.T.	5
4.2 EUT Test Mode and Test Condition	5
4.3 Measurement Uncertainty	6
4.4 Test Location	6
4.5 Deviation from Standards	6
4.6 Abnormalities from Standard Conditions	6
5 Equipment List	7
6 Radio Spectrum Technical Requirement	9
6.1 Antenna Requirement	9
6.1.1 Test Requirement:	9
6.1.2 Conclusion	9
7 Radio Spectrum Matter Test Results	10
7.1 Conducted Peak Output Power	10
7.1.1 Test Setup Diagram	10
7.1.2 Measurement Procedure and Data	10
7.2 Minimum 6dB Bandwidth	11
7.2.1 Test Setup Diagram	11
7.2.2 Measurement Procedure and Data	11
7.3 Power Spectrum Density	12
7.3.1 Test Setup Diagram	12
7.3.2 Measurement Procedure and Data	12
7.4 Conducted Band Edges Measurement	13
7.4.1 Test Setup Diagram	13
7.4.2 Measurement Procedure and Data	13
7.5 Conducted Spurious Emissions	14
7.5.1 Test Setup Diagram	14
7.5.2 Measurement Procedure and Data	14
7.6 Radiated Emissions which fall in the restricted bands	15
7.6.1 Test Setup Diagram	15
7.6.2 Measurement Procedure and Data	16
7.7 Radiated Spurious Emissions	18
7.7.1 Test Setup Diagram	18
7.7.2 Measurement Procedure and Data	19
8 Test Setup Photo	24
9 EUT Constructional Details (EUT Photos)	24



4 General Information

4.1 Details of E.U.T.

Power supply:	25.6V $\approx$ 314Ah
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Channel Spacing:	2MHz
Data Rate:	1Mbps, 2Mbps
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	-0.59dBi
Sample No.:	BTEK260331006A04E01-1-1/1
Model(s) Difference Statement	☒ Single Model.
	☐ Multi-Models:

4.2 EUT Test Mode and Test Condition

Test Mode	Description	Remark
1	Low/mid/High Channel	2402MHz/2440MHz/2480MHz
Remark:1.only show the worst case in the test report.		

Channel Frequency Tabel:

BLE	
Channel	Frequency (MHz)
00	2402
01	2404
19	2440
38	2478
39	2480

Test Conditions

Temperature:	19.7 °C
Relative Humidity:	67 %
ATM Pressure:	1020 mbar



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.12\text{dB}$
Conducted Peak Output Power	$\pm 0.75\text{dB}$
Minimum 6dB Bandwidth	$\pm 3\%$
Power Spectrum Density	$\pm 2.84\text{dB}$
Conducted Band Edges Measurement	$\pm 0.75\text{dB}$
Conducted Spurious Emissions	$\pm 0.75\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	$\pm 5.06\text{dB}$ (3m); $\pm 4.46\text{dB}$ (10m)
Radiated Spurious Emissions (Above 1GHz)	$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)

4.4 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.

A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Shielding Room	YIHENG ENELECTRONIC	9*5*3.3	YH-BT-220304-04	2025-02-15	2028-02-14
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2025-06-18	2026-06-17
Measurement Software	Fara	EZ EMC Ver. FA-03A2	N/A	N/A	N/A
LISN	Rohde&Schwarz	ENV216	101472	2025-06-18	2026-06-17
LISN	Schwarzbeck	NSLK 8128	05127	2025-06-18	2026-06-17

RF Conducted					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Shielding Room	YIHENG ENELECTRONIC	5.5*3.1*3	YH-BT-220304-03	2025-02-15	2028-02-14
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2025-06-19	2026-06-18
DC Power Supply	E3632A	E3642A	KR75304416	2025-06-19	2026-06-18
Attenuator	RswTech	SMA-JK-6dB	N/A	2025-06-19	2026-06-18
Attenuator	RswTech	SMA-JK-3dB	N/A	2025-06-19	2026-06-18
RF Control Unit	Techy	TR1029-1	N/A	2025-06-19	2026-06-18
RF Sensor Unit	Techy	TR1029-2	N/A	2025-06-19	2026-06-18
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	141258	2025-06-19	2026-06-18
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2025-06-19	2026-06-18
Programmable Temperature&Humidity Chamber	GRT	GR-HWX1000	GR22051001	2025-06-19	2026-06-18
Measurement Software	TACHOY	RF TestSoft	N/A	N/A	N/A

RSE					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	YIHENG ENELECTRONIC	966	YH-BT-220304-01	2025-02-15	2028-02-14
EMI Test Receiver	Rohde&Schwarz	ESCI	100694	2025-06-18	2026-06-17
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01324	2025-06-18	2026-06-17
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2025-06-18	2026-06-17
Measurement Software	Fara	EZ EMC Ver. FA-03A2	N/A	2025-06-18	2026-06-17
EXA Signal Analyzer	Keysight	N9020A	MY54440290	2025-06-18	2026-06-17
Horn Antenna	Schwarzbeck	BBHA 9120D	02695	2025-06-18	2026-06-17
Pre-Amplifier	Tonscend	TAP0118045	AP20K806109	2025-06-18	2026-06-17
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025-06-18	2026-06-17
Low Noise Pre-amplifier	SKET	LNPA-1840G-50	SK2022032902	2025-06-18	2026-06-17
Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2025-06-18	2026-06-17



Loop Antenna	ETS	6502	00201177	2025-06-18	2026-06-17
Cable	BTEK	LMR400UF-NMNM-7.00M	/	2025-06-18	2026-06-17
Cable	BTEK	LMR400UF-NMNM-2.50M	/	2025-06-18	2026-06-17
Cable	BTEK	LMR400UF-NMNM-3.00M	/	2025-06-18	2026-06-17
Cable	BTEK	SFT205PUR-MNSWSM-7.00M	/	2025-06-18	2026-06-17
Cable	BTEK	SFT205PUR-MNSWSM-2.50M	/	2025-06-18	2026-06-17
Cable	BTEK	SFT205PUR-MNSWSM-2.50M	/	2025-06-18	2026-06-17
Cable	BTEK	SFT205PUR-MNSWSM-0.30M	/	2025-06-18	2026-06-17



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

This product has a PCB antenna, fulfill the requirement of this section.



7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

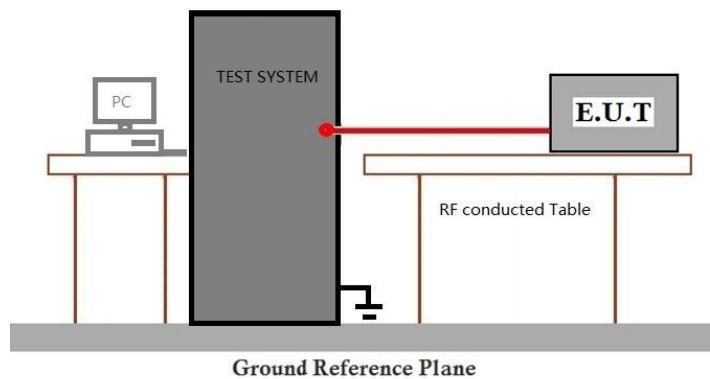
Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 Test Setup Diagram



7.1.2 Measurement Procedure and Data

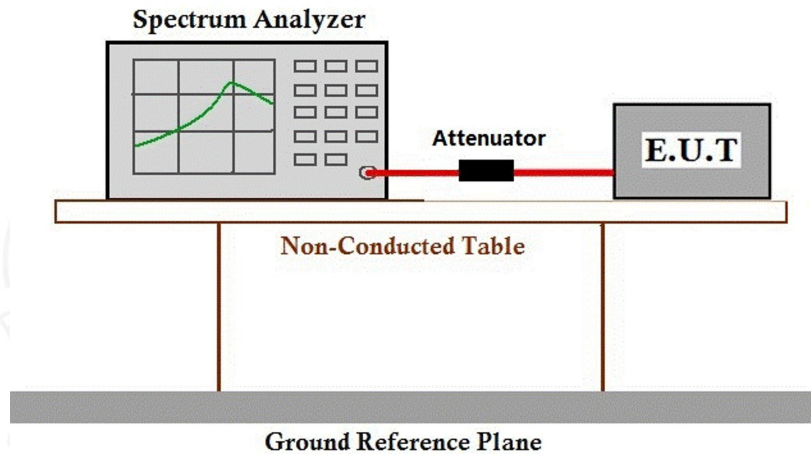
Please Refer to Appendix for Details



7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2020) Section 11.8
Limit: ≥ 500 kHz

7.2.1 Test Setup Diagram



7.2.2 Measurement Procedure and Data

Please Refer to Appendix for Details



7.3 Power Spectrum Density

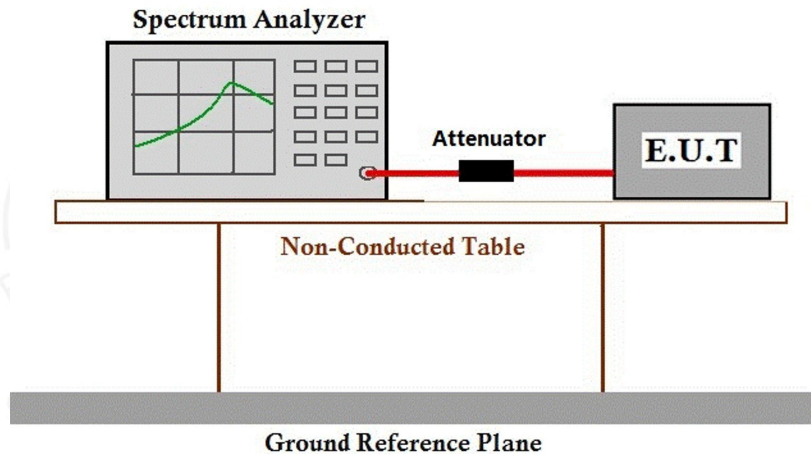
Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2020) Section 11.10

Limit:

$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.3.1 Test Setup Diagram



7.3.2 Measurement Procedure and Data

Please Refer to Appendix for Details



7.4 Conducted Band Edges Measurement

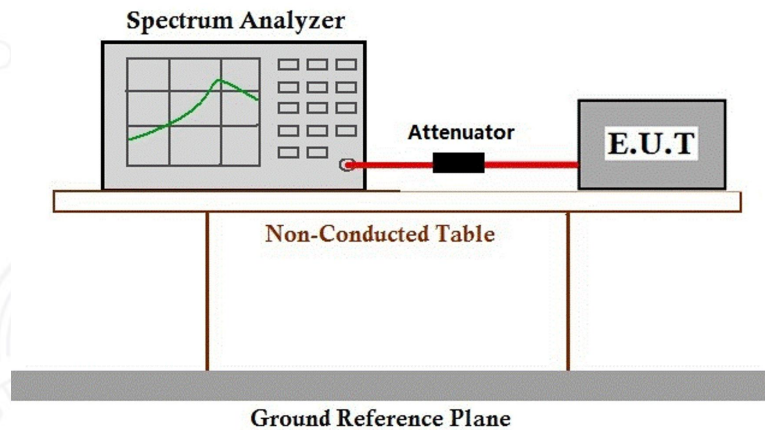
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.4.1 Test Setup Diagram



7.4.2 Measurement Procedure and Data

Please Refer to Appendix for Details



7.5 Conducted Spurious Emissions

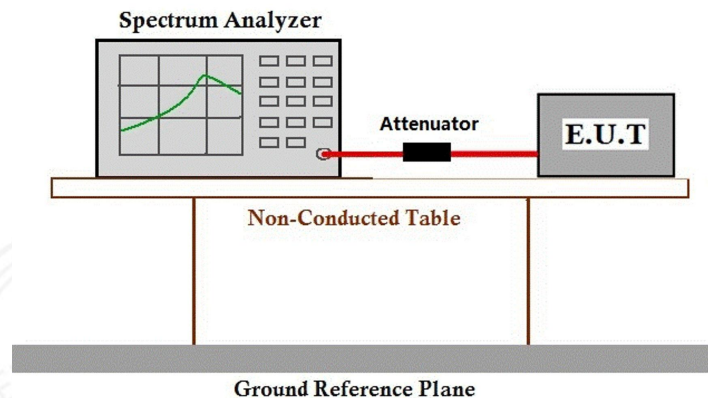
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.5.1 Test Setup Diagram



7.5.2 Measurement Procedure and Data

Please Refer to Appendix for Details



7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

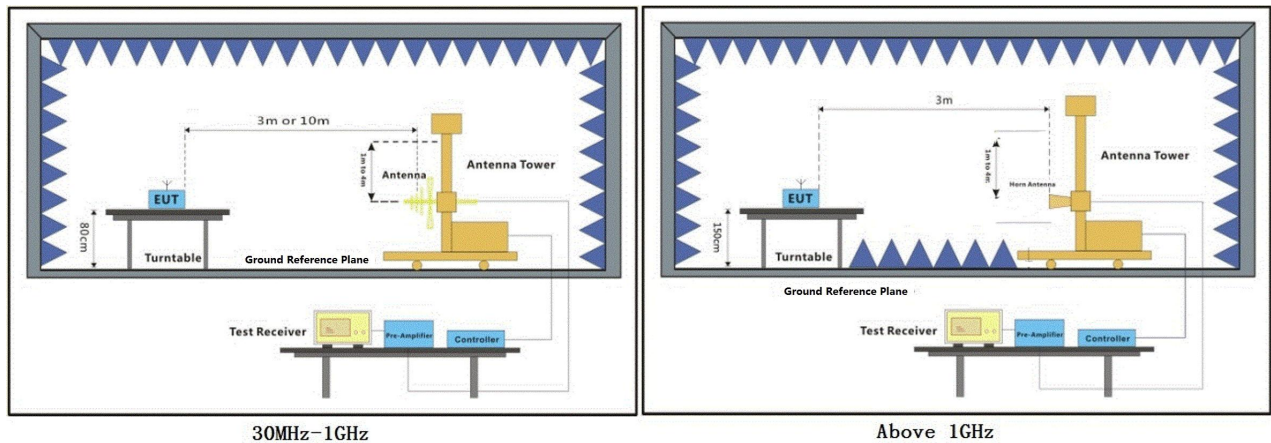
Test Method: ANSI C63.10 (2020) Section 11.12

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 Test Setup Diagram



7.6.2 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp gain}$, $\text{Margin} = \text{Level} - \text{Limit}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

3. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.



Horizontal; Modulation:GFSK; ; Channel:Low

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2310.00	68.36	-24.14	44.22	74.00	-29.78	peak	P
2	2310.00	58.24	-24.14	34.10	54.00	-19.90	Average	P
3	2390.00	72.05	-23.92	48.13	74.00	-25.87	peak	P
4	2390.00	64.14	-23.92	40.22	54.00	-13.78	Average	P
5	2400.00	64.47	-23.92	40.55	74.00	-33.45	peak	P
6	2400.00	55.4	-23.92	31.48	54.00	-22.52	Average	P

Polarity: Vertical; Modulation:GFSK; ; Channel:Low

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2310.00	68.3	-24.14	44.16	74.00	-29.84	peak	P
2	2310.00	58.52	-24.14	34.38	54.00	-19.62	Average	P
3	2390.00	69.05	-23.92	45.13	74.00	-28.87	peak	P
4	2390.00	60	-23.92	36.08	54.00	-17.92	Average	P
5	2400.00	67.87	-23.92	43.95	74.00	-30.05	peak	P
6	2400.00	57.44	-23.92	33.52	54.00	-20.48	Average	P

Polarity: Horizontal; Modulation:GFSK; ; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	70.85	-23.65	47.20	74.00	-26.80	peak	P
2	2483.500	57.8	-23.65	34.15	54.00	-19.85	Average	P
3	2500.000	73.69	-23.65	50.04	74.00	-23.96	peak	P
4	2500.000	59.25	-23.65	35.60	54.00	-18.40	Average	P

Polarity: Vertical; Modulation:GFSK; ; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	66.17	-23.65	42.52	74.00	-31.48	peak	P
2	2483.500	59.72	-23.65	36.07	54.00	-17.93	Average	P
3	2500.000	71.06	-23.65	47.41	74.00	-26.59	peak	P
4	2500.000	61.71	-23.65	38.06	54.00	-15.94	Average	P



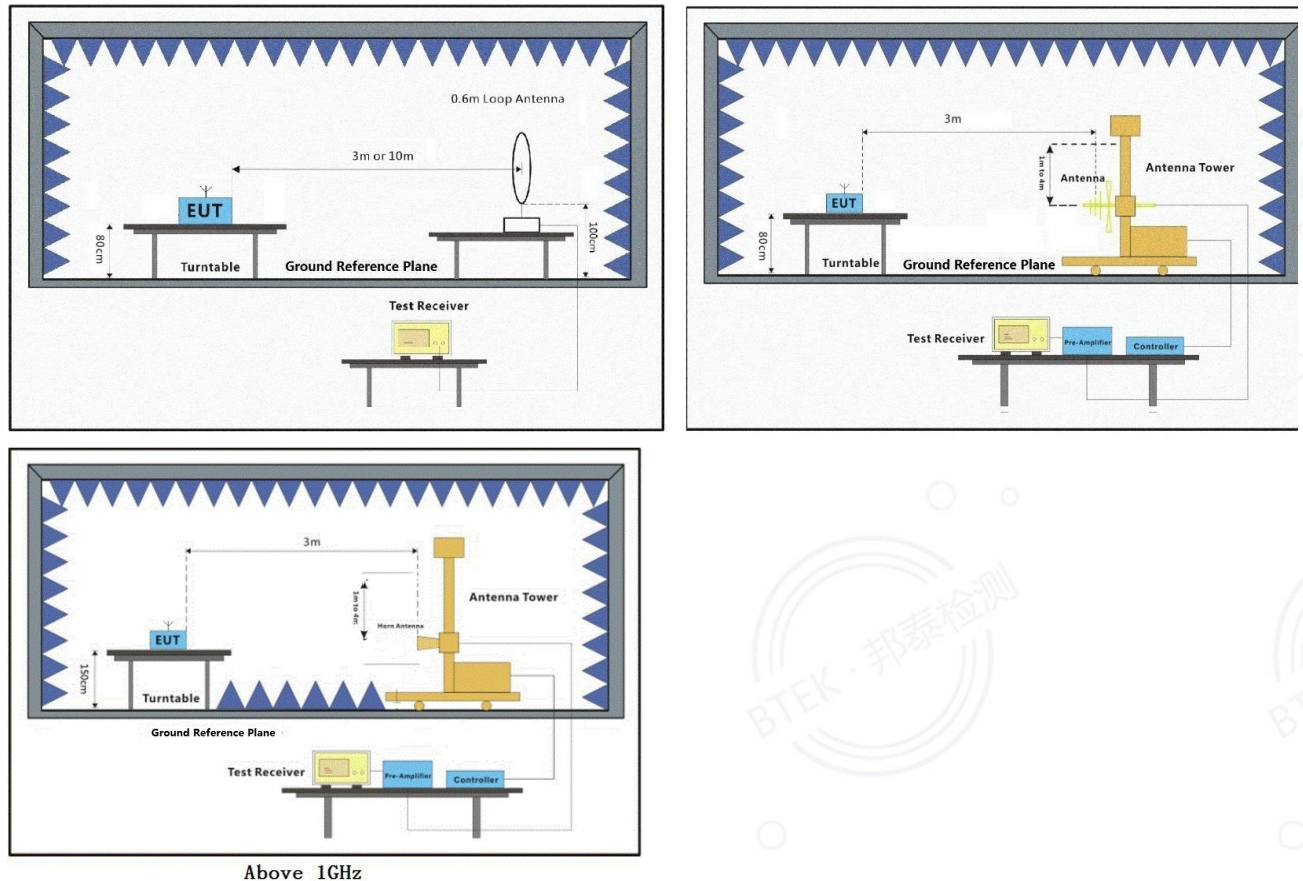
7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.3,6.4,6.5,6.6
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 Test Setup Diagram



7.7.2 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - c. The antenna height 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.
 - d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
 - g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - i. Repeat above procedures until all frequencies measured was complete.
-
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - c. The antenna height 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.
 - d. 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.
 - e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
 - g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - i. Repeat above procedures until all frequencies measured was complete.



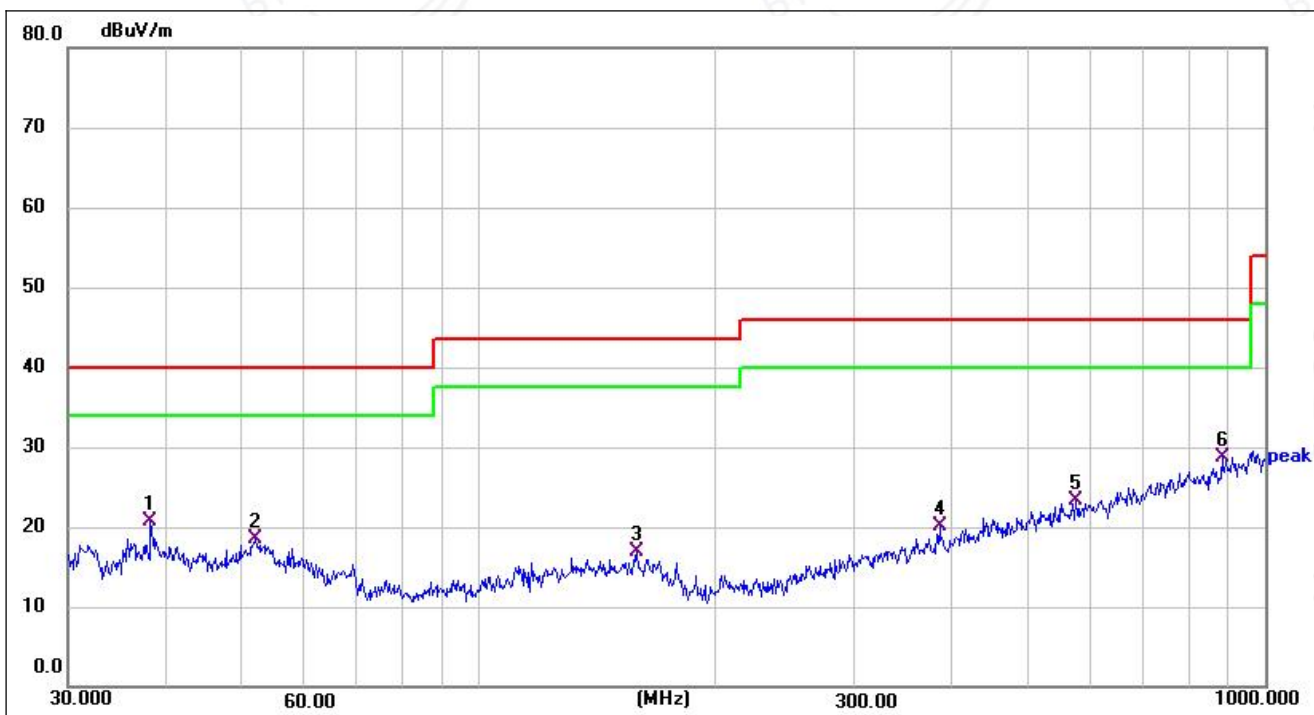
Spurious Emissions Below 1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	50.5860	28.61	-11.72	16.89	40.00	-23.11	QP	100	360	P	
2	69.1141	28.26	-13.33	14.93	40.00	-25.07	QP	100	360	P	
3	130.8369	27.70	-11.85	15.85	43.50	-27.65	QP	100	360	P	
4	287.9904	28.82	-12.58	16.24	46.00	-29.76	QP	100	360	P	
5	501.1790	29.12	-7.76	21.36	46.00	-24.64	QP	100	360	P	
6 *	916.0687	32.06	-1.99	30.07	46.00	-15.93	QP	100	360	P	



Test Channel	Low	Polarity:	Vertical
--------------	-----	-----------	----------



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	38.2120	32.29	-11.57	20.72	40.00	-19.28	QP	100	0	P	
2	51.8430	29.72	-11.28	18.44	40.00	-21.56	QP	100	0	P	
3	158.6677	28.05	-11.24	16.81	43.50	-26.69	QP	100	0	P	
4	385.2805	29.68	-9.54	20.14	46.00	-25.86	QP	100	0	P	
5	574.6258	30.29	-7.00	23.29	46.00	-22.71	QP	100	0	P	
6 *	881.4067	30.67	-1.87	28.80	46.00	-17.20	QP	100	0	P	

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Reading Level + Factor, Margin= Level-Limit. Factor= Cabel loss +Antenna factor-Pre_amplifier gain.

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Above 1GHz

Polarity: Horizontal; Modulation:GFSK; Channel:Low

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4803.23	67.61	-15.60	52.01	74.00	-21.99	peak	P
2	4803.18	51.92	-15.60	36.32	54.00	-17.68	Average	P
3	7207.81	52.92	-10.97	41.95	74.00	-32.05	peak	P
4	7204.14	47.37	-10.97	36.40	54.00	-17.60	Average	P

Polarity: Vertical; Modulation:GFSK; Channel:Low

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4804.050	60.27	-15.09	45.18	74.00	-28.82	peak	P
2	4802.490	53.85	-15.16	38.69	54.00	-15.31	Average	P
3	7204.310	57.07	-10.77	46.30	74.00	-27.70	peak	P
4	7206.730	55.7	-11.58	44.12	74.00	-29.88	Average	P

Polarity: Horizontal; Modulation:GFSK; Channel:middle

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4884.52	69.68	-15.27	54.41	74.00	-19.59	peak	P
2	4884.25	56.07	-15.62	40.45	54.00	-13.55	Average	P
3	7322.51	57.8	-10.64	47.16	74.00	-26.84	peak	P
4	7327.29	43.7	-10.65	33.05	54.00	-20.95	Average	P

Polarity: Vertical; Modulation:GFSK; Channel:middle

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4884.720	68.38	-14.79	53.59	74.00	-20.41	peak	P
2	4885.950	56.29	-15.54	40.75	54.00	-13.25	Average	P
3	7321.300	57.38	-10.38	47.00	74.00	-27.00	peak	P
4	7318.170	45.07	-11.91	33.16	54.00	-20.84	Average	P

Polarity: Horizontal; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4959.790	62.43	-16.02	46.41	74.00	-27.59	peak	P
2	4962.540	57.27	-15.55	41.72	54.00	-12.28	Average	P
3	7440.090	58.52	-10.91	47.61	74.00	-26.39	peak	P
4	7438.650	52.77	-10.77	42.00	54.00	-12.00	Average	P

Polarity: Vertical; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4958.880	64.24	-16.05	48.19	74.00	-25.81	peak	P
2	4959.690	58.76	-15.78	42.98	54.00	-11.02	Average	P
3	7440.300	58.08	-11.43	46.65	74.00	-27.35	peak	P
4	7439.280	51.02	-11.00	40.02	54.00	-13.98	Average	P



Note:1. Testing is carried out with frequency rang 1GHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

2. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

3. Final Test Level = Reading Level + Factor, Margin= Level-Limit. Factor= Cabel loss +Antenna factor-Pre_amplifier gain.



8 Test Setup Photo

Please refer to the Appendix Test Setup Photos

9 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos

- End of the Report -

