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TEST REPORT

Test Result:	Pass*			
Date of Issue:	2024-10-22			
Date of Test:	2024-09-03 to 2024-10-21			
Date of Receipt:	2024-09-03			
	ANSI C63.10:2013			
0	KDB558074 D01 15.247 Meas Guidance v05r02			
Standard(s) :	47 CFR Part 15, Subpart C 15.247			
FCC ID:	2BDSV1670			
Trade Mark:	LiTime			
	16V 70Ah Smart, 16V 70Ah BT, 16V 70Ah HBT			
Adding Model(s):	16V 70Ah Self-Heating, 16V 70Ah TM, 16V 70Ah Mini,			
Test Model.:	16V 70Ah 16V 70Ah LTCP, 16V 70Ah Plus, 16V 700Ah Group 31,			
EUT Name:	LiTime 16V 70Ah LiFeP04 Battery			
Equipment Under Test (EU				
Address of Manufacturer:	301 Room 301, Building B, Tongzhou Electronics Longgang Factory, No. 1, O Baolong 5th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China			
Manufacturer:	Shenzhen Litime Technology Co., Ltd			
Address of Applicant:	301 Room 301, Building B, Tongzhou Electronics Longgang Factory, No. 1, Baolong 5th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China			
Applicant:	Shenzhen Litime Technology Co., Ltd			
Application No.:	BTEK240902002AE			

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

ion Car

Lion Cai/ Approved & Authorized EMC Laboratory Manager





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	Revision Record				
Version	Issue Date	Revisions	Remarks		
V0	2024-10-22		Original		
	0	0			

Authorized for issue by	ρ ο	ф о
TEX - BS	Zora Huang	
8	Zora Huang/Project Engineer	
0	June Li	
	June Li/Reviewer	0 0

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.







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2 Test Summary

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

Radio Spectrum Matter Part

ltem	Standard	Method	Requirement	Result
	Conducted Emissions at AC Power Line (150kHz-30MHz)	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A
	Conducted Peak Output Power	ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
	Minimum 6dB Bandwidth	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
47 CFR Part 15, Subpart C 15.247	Power Spectrum Density	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
	Conducted Band Edges Measurement	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Conducted Spurious Emissions	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Radiated Emissions which fall in the restricted bands	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
	Radiated Spurious Emissions	ANSI C63.10 (2013) Section 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.

N/A: Not applicable.





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4 General Information

4.1 Details of E.U.T.

	Battery: 16.0V 70Ah Max1120W
Power supply:	Input:18.0±0.25V 70A
	Output:70A 1120W
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 BLE
Modulation Type:	GFSK O
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.2 dBi
Sample No.:	BTEK240902002AE-01

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Model No.: 16V 70Ah, 16V 70Ah LTCP, 16V 70Ah Plus, 16V 70Ah Group 31, 16V 70Ah Self-Heating, 16V 70Ah TM, 16V 70Ah Mini, 16V 70Ah Smart, 16V 70Ah BT, 16V 70Ah HBT

Only the model 16V 70Ah was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No.

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.	B

Channel Frequency Tabel:

	BLE O
Channel	Frequency (MHz)
00	2402
01 🔘 🔍	2404
19	2440
()(TEKEN	() the fair
38	2478
39	2480

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %
ATM Pressure:	1010 mbar





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4.3 Measurement Uncertainty

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

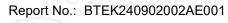
4.5 Deviation from Standards None

4.6 Abnormalities from Standard Conditions

None







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Page:



5 Equipment List

Conducted Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Shielding Room		9*5*3.3	YH-BT-220304-04	2022-03-03	2025-03-02
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2024-06-11	2025-06-10
Measurement Software	Fara 🔵	EZ_EMC Ver. FA-03A2	N/A	N/A	N/A
LISN	Rohde&Schwarz	ENV216	101472	2024-06-11	2025-06-10
LISN	Schwarzbeck	NSLK 8128	05127	2024-06-11	2025-06-10

RF Conducted	- 3× 111		1]]]	
Equipment	Manufacturer	Model No 📀	Serial No	Cal Date	Cal Due Date
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT- 220304-03	2022-03-03	2025-03-02
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2024-06-11	2025-06-10
DC Power Supply	E3632A	E3642A	KR75304416	2024-06-11	2025-06-10
Attenuator	RswTech	SMA-JK-6dB	N/A	2024-06-11	2025-06-10
Attenuator	RswTech	SMA-JK-3dB	N/A	2024-06-11	2025-06-10
RF Control Unit	Techy	TR1029-1	N/A	2024-06-11	2025-06-10
RF Sensor Unit	Techy	TR1029-2	N/A	2024-06-11	2025-06-10
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500 141258		2024-06-11	2025-06-10
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2024-06-11	2025-06-10
Programmable Temperature&Humidity Chamber	GRT	GR-HWX1000	GR22051001	2024-06-11	2025-06-10
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 ENECTRONIC	966	YH-BT- 220304-01	2022-05-06	2025-05-05	
EMI Test Receiver	I Test Receiver Rohde&Schwarz		100694	2024-06-11	2025-06-10	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168 01324		2024-06-16	2025-06-15	
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2024-06-11	2025-06-10	
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	N/A	2024-06-11	2025-06-10	
EXA Signal Analyzer	Keysight	N9020A	MY54440290	2024-06-11	2025-06-10	
Horn Antenna	Schwarzbeck	BBHA 9120D	02695	2024-06-15	2025-06-14	
Pre-Amplifier	Tonscend	TAP0118045	AP20K806109	2024-06-11	2025-06-10	





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Horn Antenna	SCHWARZBECK	BBHA9170	1157	2024-06-15	2025-06-14	
Low Noise Pre-amplifier	.38 11	LNPA-1840G- 50	NPA-1840G- SK2022032902		2025-06-10	
Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2024-06-11	2025-06-10	
Loop Antenna	ETS	6502	00201177	2024-06-15	2025-06-14	
Cable	BTEK	LMR400UF- NMNM-7.00M) /	2024-06-15	2025-06-14	
Cable	ВТЕК	LMR400UF- NMNM-2.50M	/	2024-06-15	2025-06-14	
Cable	ВТЕК	LMR400UF- / NMNM-3.00M	1	2024-06-15	2025-06-14	
Cable	ВТЕК	SFT205PUR- MNSWSM- 7.00M	/	2024-06-15	2025-06-14	
Cable	ВТЕК	SFT205PUR- MNSWSM- 2.50M	SEK I	2024-06-15	2025-06-14	
Cable	ВТЕК	SFT205PUR- MNSWSM- 2.50M	NSWSM- /		2025-06-14	
Cable	ВТЕК	SFT205PUR- MNSWSM- 0.30M	/	2024-06-15	2025-06-14	













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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.













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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

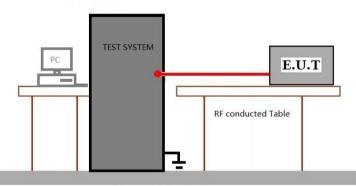
 Test Method:
 ANSI C63.10 (2013) Section 11.9.1.3

 Limit:
 ANSI C63.10 (2013) Section 11.9.1.3

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	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

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Ground Reference Plane

7.1.2 Measurement Procedure and Data

RF offset=cable loss+ RF Control Unit loss, Please refer the test plot. Please Refer to Appendix for Details





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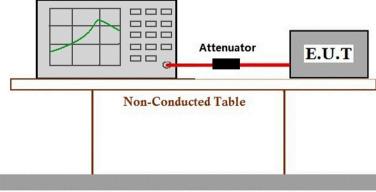
7.2 Minimum 6dB Bandwidth

Test Requirement	47 (
Test Method:	ANS
Limit:	≥50

F CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 500 kHz

7.2.1 Test Setup Diagram

Spectrum Analyzer



Ground Reference Plane

7.2.2 Measurement Procedure and Data

RF offset=cable loss+ RF Control Unit loss, Please refer the test plot.

Please Refer to Appendix for Details





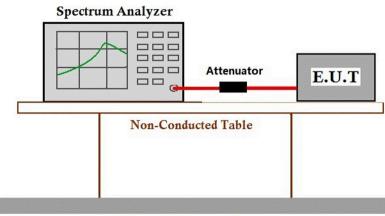


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7.3 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	

≤8dBm in any 3 kHz band during any time interval of continuous transmission 7.3.1 Test Setup Diagram



Ground Reference Plane

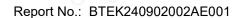
7.3.2 Measurement Procedure and Data

RF offset=cable loss+ RF Control Unit loss, Please refer the test plot.

Please Refer to Appendix for Details









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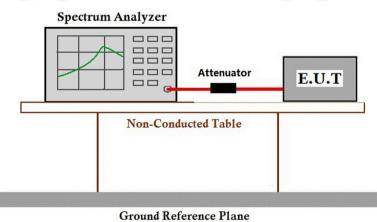
7.4 Conducted Band Edges Measurement

Test Requirement Test Method: 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.13.3.2

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).

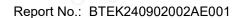
7.4.1 Test Setup Diagram



7.4.2 Measurement Procedure and Data

RF offset=cable loss+ RF Control Unit loss, Please refer the test plot. Please Refer to Appendix for Details







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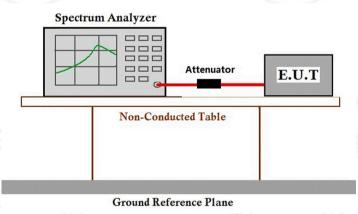
7.5 Conducted Spurious Emissions

Test Requirement Test Method: 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) 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



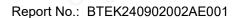
7.5.2 Measurement Procedure and Data

RF offset=cable loss+ RF Control Unit loss, Please refer the test plot.

Please Refer to Appendix for Details









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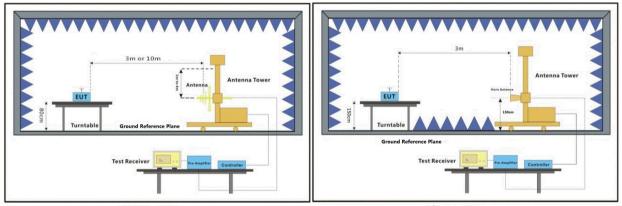
7.6 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.10.5
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



30MHz-1GHz

Above 1GHz







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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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp gain, Margin=Level-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.







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					.,,,			
No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	62.42	-24.14	38.28	74.00	-35.72	peak	Р
2	2390.000	63.47	-23.92	39.55	74.00	-34.45	peak	Р
3	2400.000	71.48	-23.92	47.56	74.00	-26.44	peak	Р

Horizontal; Modulation:GFSK; ; Channel:Low

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	2310.000	60.76	-24.14	36.62	74.00	-37.38	peak	Р
2	2390.000	65.40	-23.92	41.48	74.00	-32.52	peak	Р
3	2400.000	71.19	-23.92	47.27	74.00	-26.73	peak	Р

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	70.92	-23.65	47.27	74.00	-26.73	peak	Р
2	2500.000	75.34	-23.65	51.69	74.00	-22.31	peak	Р

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	70.53	-23.65	46.88	74.00	-27.12	peak	Р
2	2500.000	72.73	-23.65	49.08	74.00	-24.92	peak	Р





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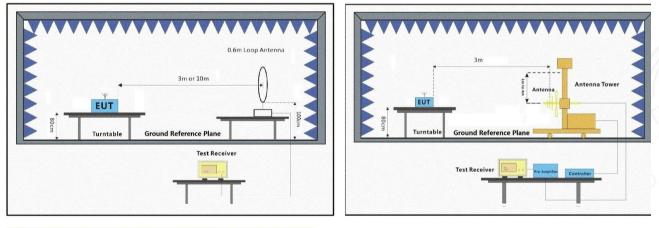
7.7 Radiated Spurious Emissions

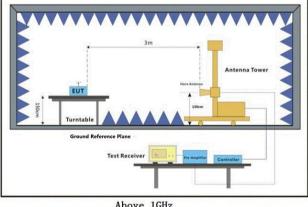
Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Limit:	

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.

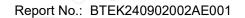
7.7.1 Test Setup Diagram





Above 1GHz







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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.





2 *

3

4

5

6

49.0145

113,7143

169.0054

261.9753

522.7180

41.41

39.45

40.29

40.64

41.73

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-14.54

-16.83

-14.27

-15.89

-9.47

26.87

22.62

26.02

24.75

32.26

40.00

43.50

43.50

46.00

46.00

-13.13

-20.88

-17.48

-21.25

-13.74

QP

QP

QP

QP

QP

200

200

200

200

200

360

360

360

360

360

P

P

P

P

P

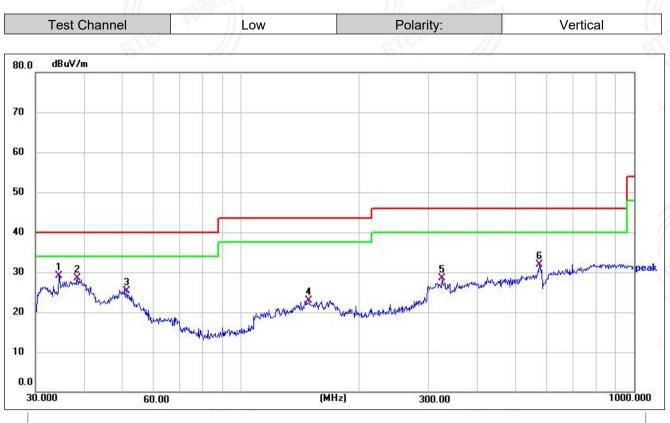








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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	34.3964	43.38	-14.36	29.02	40.00	-10.98	QP	100	0	Ρ	
2	38.3462	43.09	-14.50	28.59	40.00	- <mark>11.41</mark>	QP	100	0	Р	
3	51.3005	40.09	-14.70	25.39	40.00	- <mark>14.61</mark>	QP	100	0	P	
4	148.9625	37.29	-14.33	22.96	43.50	-20.54	QP	100	0	P	
5	324.4561	42.86	-14.36	28.50	46.00	-17.50	QP	100	0	P	
6	574.6258	40.77	-8.86	31.91	46.00	-14.09	QP	100	0	P	

Remark:

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





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Polarity: Horizontal; Modulation:GFSK; Channel:Low

	Frequency	Readin g	Factor	Level	Limit (dBuv/m			5
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m))	Margin(dB)	Detector	P/F
1	4804.902	53.13	-15.60	37.53	74.00	-36.47	peak	Р
2	7206.296	49.58	-10.97	38.61	74.00	-35.39	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:Low

		Readin			Limit			
	Frequency	g	Factor	Level	(dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)		Margin(dB)	Detector	P/F
1	4804.058	50.41	-15.60	34.81	74.00	-39.19	peak	Р
2	7206.564	48.68	-10.97	37.71	74.00	-36.29	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:middle

	Frequency	Readin q	Factor	Level	Limit (dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m))	Margin(dB)	Detector	P/F
1	4879.053	53.94	-15.52	38.42	74.00	-35.58	peak	Р
2	7319.086	48.65	-10.91	37.74	74.00	-36.26	peak	Р

Polarity: Vertica	I; Modulation:GFSK;	Channel:middle
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No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	4880.195	52.42	-15.52	36.90	74.00	-37.10	peak	P
2	7319.827	46.75	-10.91	35.84	74.00	-38.16	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:High

	Frequency	Readin	Factor	Level	Limit (dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m))	Margin(dB)	Detector	P/F
1	4959.211	52.84	-15.51	37.33	74.00	-36.67	peak	Р
2	7440.450	47.19	-10.89	36.30	74.00	-37.70	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:High

				e a a la	,			
	ait	Readin	//		Limit			5
	Frequency	g	Factor	Level	(dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m))	Margin(dB)	Detector	P/F
1	4959.315	51.52	-15.60	35.92	74.00	-38.08	peak	Р
2	7440.181	47.77	-10.97	36.80	74.00	-37.20	peak	Р

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.





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





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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 -







