

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260500185303

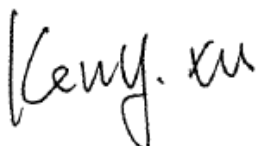
Page: 1 of 36

TEST REPORT

Application No.: SZCR2605001853WM
Applicant: TCL Communication Ltd.
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd.
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Under Test (EUT):
EUT Description: Mobile Phone
Model No.: T451A, T450A ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2ACCJB235
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-05-06
Date of Test: 2026-05-16 to 2026-06-02
Date of Issue: 2026-06-03

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.


Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-06-03		Original

Authorized for issue by:				
		Kevin Lan		
		Kevin Lan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	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)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Reference report SZCR250100020703
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	



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Remark:

This test report (Report No.: SZCR260500185303 issue on 2026-06-03) is based on the original test report (Report No.: SZCR250100020703 issue on 2025-02-06).

Review this report and original report, this report just changing the parts according to the declaration letter from client and update the below standards.

The Original report standard	The newest report standard
ANSI C63.10 (2013)	ANSI C63.10 (2020)

The EUT and its below models: T451A, T450A are identical on circuitry design, PCB layout, internal wiring and functions, with difference on model number. All tests were performed on Model T451A.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the item of Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz and Radiated Spurious Emissions Above 1GHz were retested and other test data please refer to the previous report with report number SZCR250100020703 issue on 2025-02-06.



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4 General Information

4.1 Details of E.U.T.

Hardware Version:	V00
Software Version:	451ADF19
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V4.2
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	☒ Provided by client 1M PHY
Antenna Type:	PIFA Antenna
Antenna Gain:	-0.12dBi Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable:	2000MHz ~ 3000MHz (1.1dB)
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	

4.2 Environment Parameter

Environment Parameter	1015 mbar Selected Values During Tests	
Relative Humidity	40.5-47.7 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	23.4~25.3	3.87
Note: NV:Normal Voltage NT:Normal Temperature		

4.3 Description of Support Units

The EUT has been tested as an independent unit.



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4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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4.5 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-24	2027-02-23

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-03	2026-07-04

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-03	2026-07-04

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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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

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is a PIFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best-case gain of the antenna is -0.12dBi.*

**Note:*

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
 Test Method: ANSI C63.10 (2020) Section 6.2
 Test Engineer: Mason Wu

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

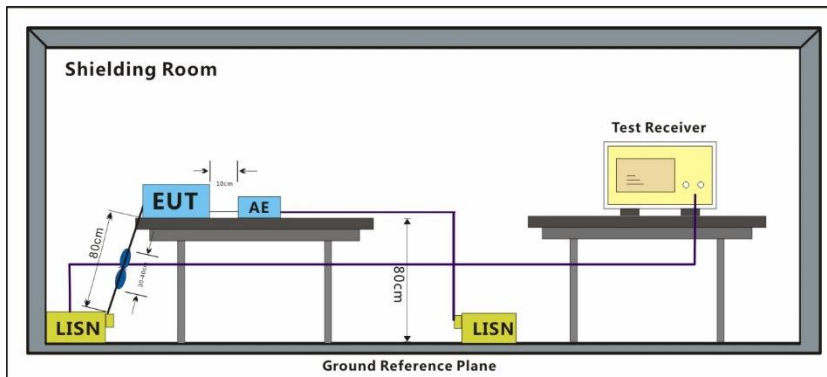
Operating Environment:

Temperature: 25.3 °C Humidity: 40.5 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

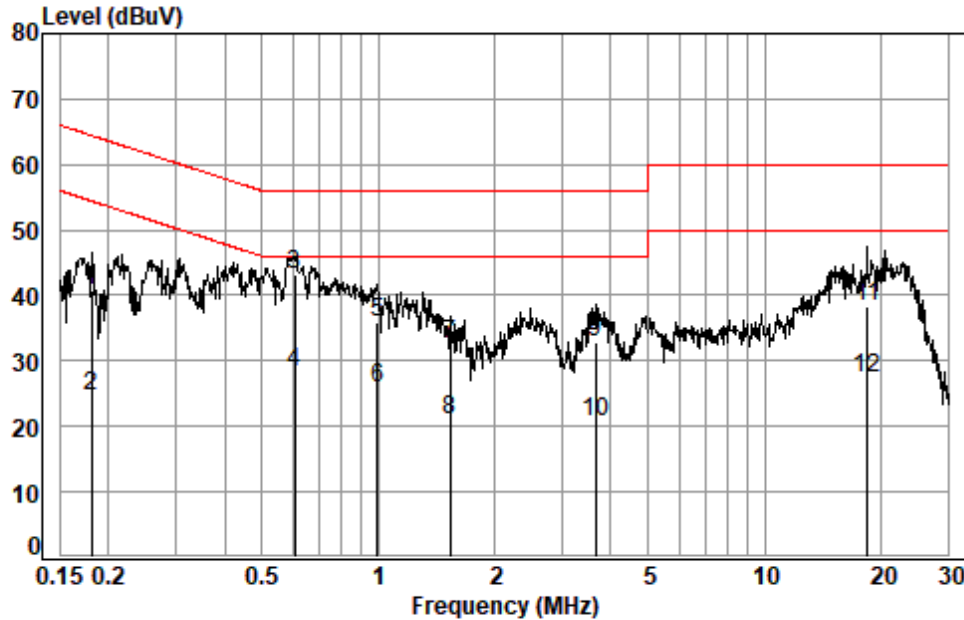
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Test Mode: 02; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01853WM
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1815	0.07	9.63	30.92	40.62	64.42	-23.80	QP
2	0.1815	0.07	9.63	14.90	24.60	54.42	-29.82	Average
3 *	0.6075	0.10	9.64	33.37	43.11	56.00	-12.89	QP
4 *	0.6075	0.10	9.64	18.53	28.27	46.00	-17.73	Average
5	0.9944	0.11	9.67	26.10	35.88	56.00	-20.12	QP
6	0.9944	0.11	9.67	16.08	25.86	46.00	-20.14	Average
7	1.5355	0.12	9.70	22.62	32.44	56.00	-23.56	QP
8	1.5355	0.12	9.70	11.20	21.02	46.00	-24.98	Average
9	3.6611	0.13	9.85	22.97	32.95	56.00	-23.05	QP
10	3.6611	0.13	9.85	10.65	20.63	46.00	-25.37	Average
11	18.4258	0.18	12.00	26.29	38.47	60.00	-21.53	QP
12	18.4258	0.18	12.00	15.08	27.26	50.00	-22.74	Average



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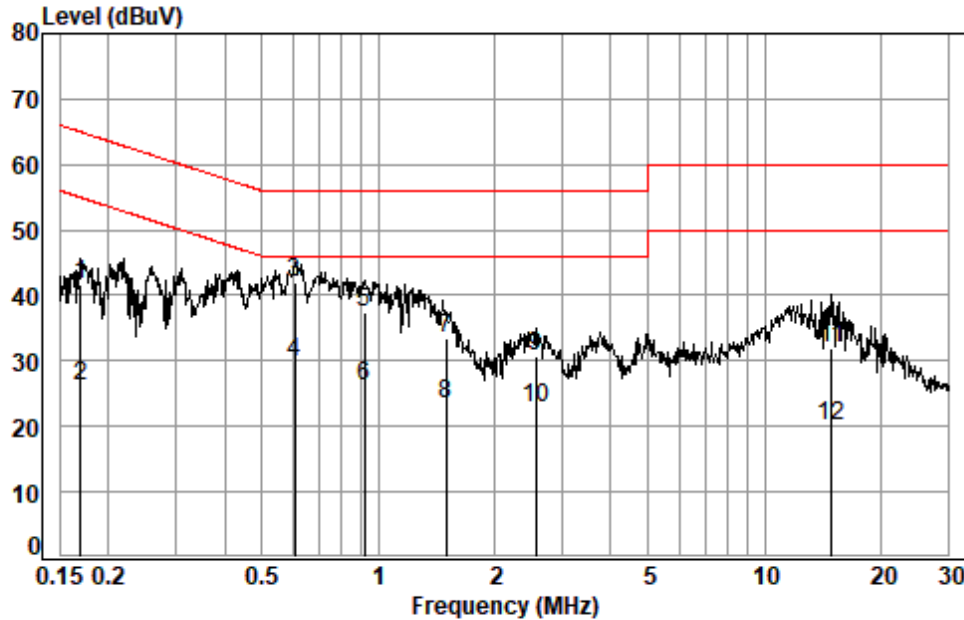
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Test Mode: 02; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01853WM
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1694	0.06	9.68	32.05	41.79	64.99	-23.20	QP
2	0.1694	0.06	9.68	16.40	26.14	54.99	-28.85	Average
3 *	0.6075	0.10	9.63	32.21	41.94	56.00	-14.06	QP
4 *	0.6075	0.10	9.63	19.96	29.69	46.00	-16.31	Average
5	0.9233	0.11	9.66	27.55	37.32	56.00	-18.68	QP
6	0.9233	0.11	9.66	16.37	26.14	46.00	-19.86	Average
7	1.5033	0.12	9.70	23.74	33.56	56.00	-22.44	QP
8	1.5033	0.12	9.70	13.54	23.36	46.00	-22.64	Average
9	2.5535	0.13	9.77	20.77	30.67	56.00	-25.33	QP
10	2.5535	0.13	9.77	12.85	22.75	46.00	-23.25	Average
11	14.9068	0.17	11.55	20.08	31.80	60.00	-28.20	QP
12	14.9068	0.17	11.55	8.24	19.96	50.00	-30.04	Average



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7.2 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 6.10.5 & 11.12
 Measurement Distance: 3m
 Test Engineer: Xing Guo

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 45.0 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

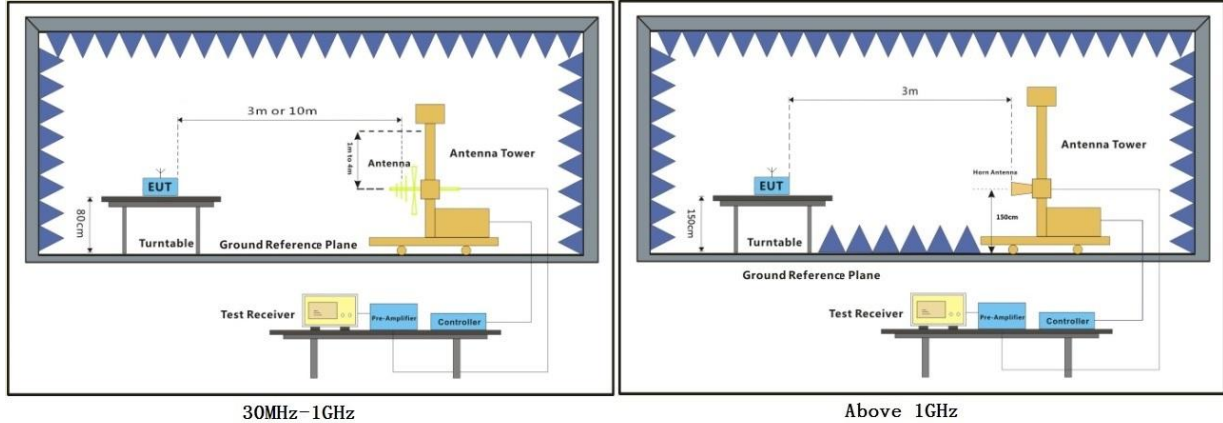


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7.2.3 Test Setup Diagram



7.2.4 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 middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Z 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 Factor

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.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



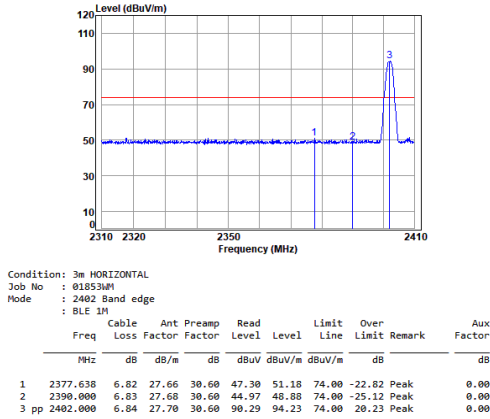
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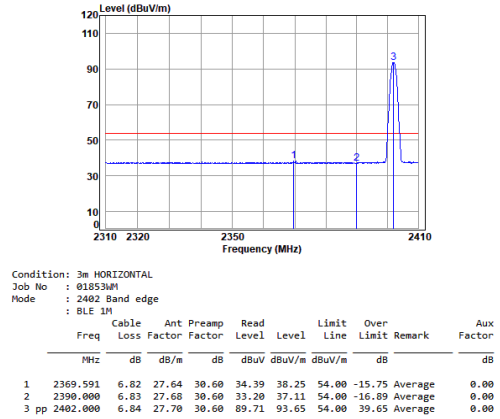
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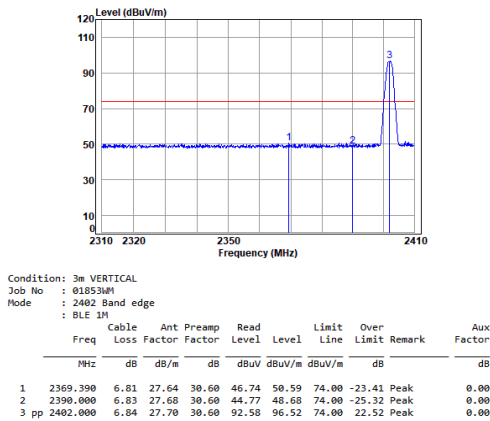
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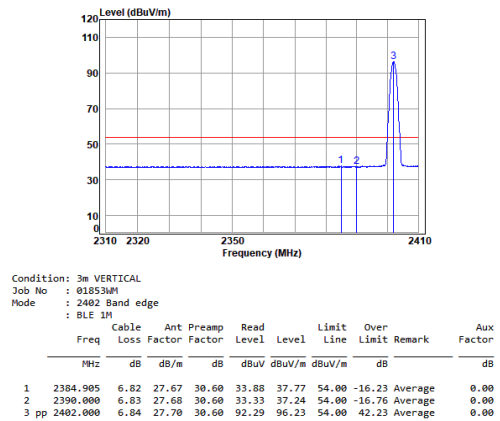
BLE_1M_TX_CH_00_Horizontal-AVG



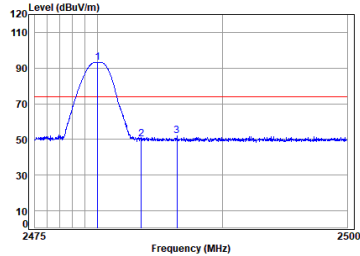
BLE_1M_TX_CH_00_Vertical-Peak



BLE_1M_TX_CH_00_Vertical-AVG



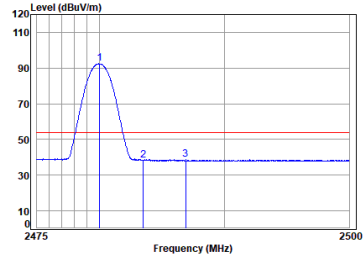
BLE_1M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01853MM
Mode : 2480 Band edge
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60	88.42	93.12	74.00	19.12	Peak	0.00
2	2483.500	7.40	27.93	30.60	45.50	50.23	74.00	-23.77	Peak	0.00
3	2486.344	7.42	27.95	30.60	47.25	52.02	74.00	-21.98	Peak	0.00

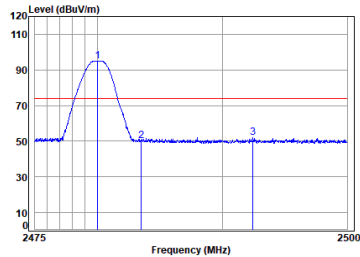
BLE_1M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL
Job No : 01853MM
Mode : 2480 Band edge
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60	87.70	92.40	54.00	38.40	Average	0.00
2	2483.500	7.40	27.93	30.60	33.47	38.20	54.00	-15.80	Average	0.00
3	2486.894	7.42	27.95	30.60	33.99	38.76	54.00	-15.24	Average	0.00

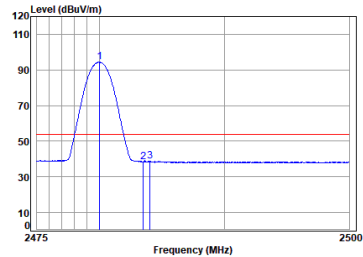
BLE_1M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01853MM
Mode : 2480 Band edge
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60	90.37	95.07	74.00	21.07	Peak	0.00
2	2483.500	7.40	27.93	30.60	45.27	50.00	74.00	-24.00	Peak	0.00
3	2492.424	7.46	27.97	30.60	47.15	51.98	74.00	-22.02	Peak	0.00

BLE_1M_TX_CH_39_Vertical-AVG



Condition: 3m VERTICAL
Job No : 01853MM
Mode : 2480 Band edge
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60	89.58	94.28	54.00	40.28	Average	0.00
2	2483.500	7.40	27.93	30.60	33.81	38.54	54.00	-15.46	Average	0.00
3	2484.021	7.40	27.94	30.60	34.01	38.75	54.00	-15.25	Average	0.00

7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Xing Guo

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
960-1000	500	3

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 47.0 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

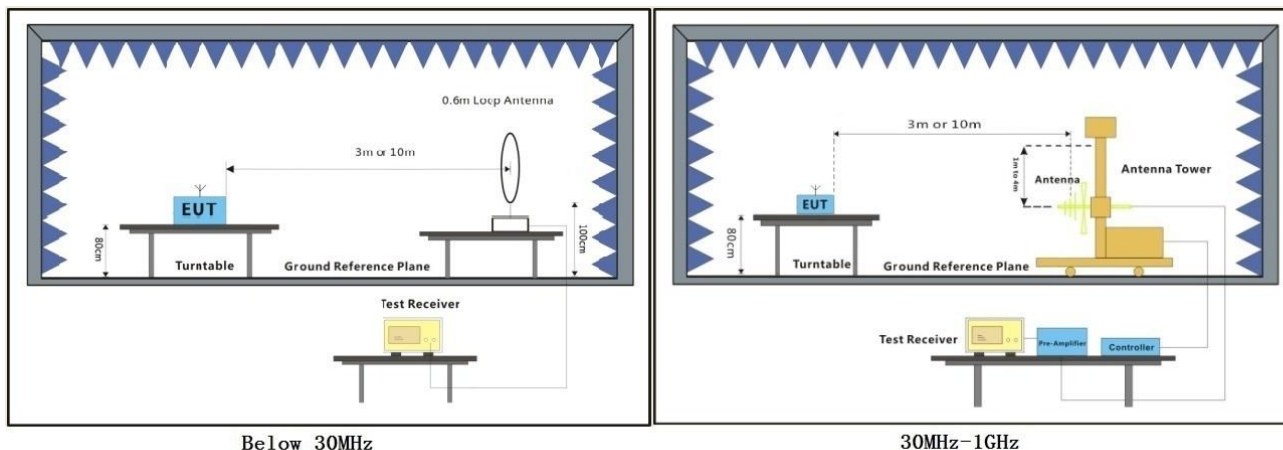


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, 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.



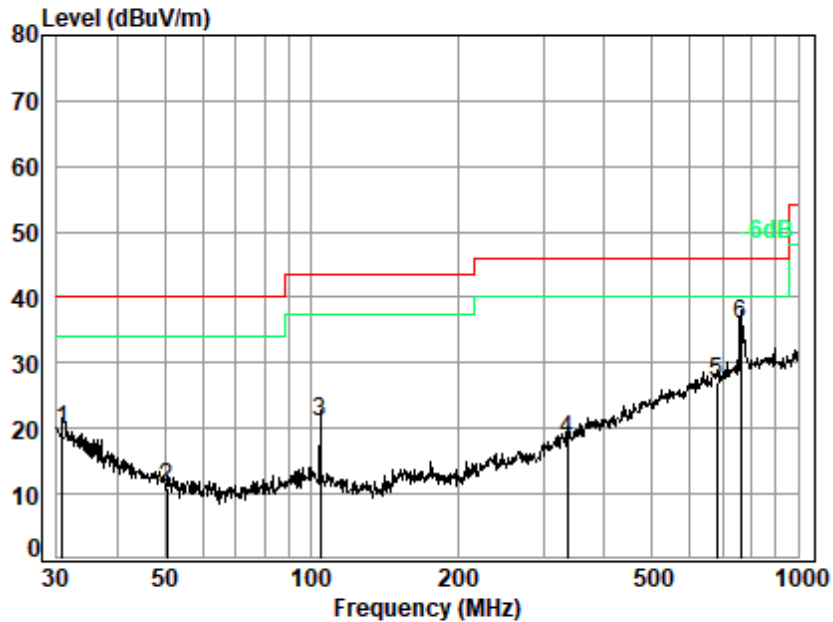
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Test Mode: 02; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 01853WM

Test Mode: 02

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.745	21.30	0.75	27.53	25.19	19.71	40.00	-20.29 QP
2	50.586	13.06	0.90	26.93	23.88	10.91	40.00	-29.09 QP
3	104.170	12.42	1.25	26.25	33.49	20.91	43.50	-22.59 QP
4	336.035	18.73	2.26	28.07	25.40	18.32	46.00	-27.68 QP
5	682.348	25.40	3.36	27.09	25.36	27.03	46.00	-18.97 QP
6 q	760.704	26.18	3.58	26.82	33.08	36.02	46.00	-9.98 QP



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Shenzhen Branch Calibration Laboratory

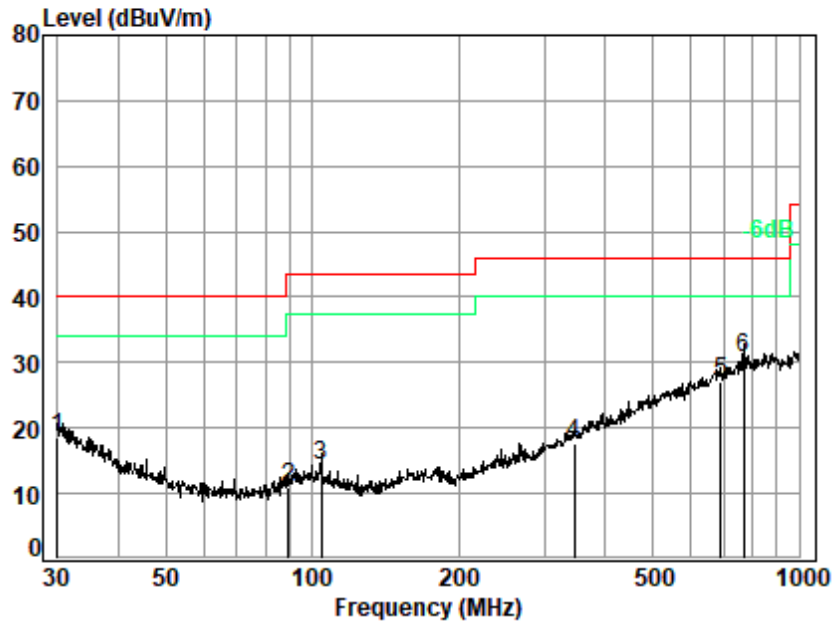
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Test Mode: 02; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 01853WM

Test Mode: 02

	Ant Freq	Cable Factor	Preamp Loss	Preamp Factor	Read Level	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	21.78	0.74	27.56	23.71	18.67	40.00	-21.33	QP
2	89.276	11.80	1.17	26.24	24.22	10.95	43.50	-32.55	QP
3	104.170	12.42	1.25	26.25	26.81	14.23	43.50	-29.27	QP
4	345.595	19.32	2.30	28.04	24.13	17.71	46.00	-28.29	QP
5	691.987	25.33	3.39	27.05	25.41	27.08	46.00	-18.92	QP
6 q	768.748	26.38	3.61	26.80	27.53	30.72	46.00	-15.28	QP

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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.6 & 11.12
 Measurement Distance: 3m
 Test Engineer: Xing Guo

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 47.7 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



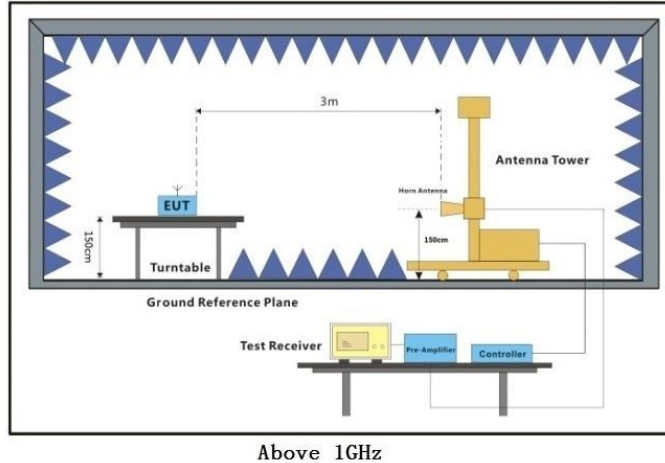
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- 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 (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 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.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
3. As shown in this section, 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



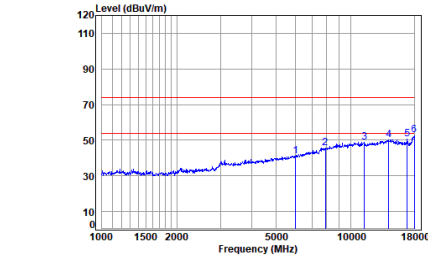
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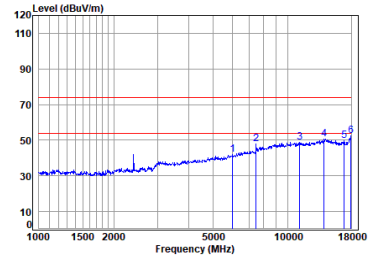
BLE_1M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 01853MM
Mode : 2402 TX RSE
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6901.626	10.05	34.40	56.50	53.25	41.10	74.00	-32.90	Peak	0.00
2	7890.049	11.48	37.29	55.96	52.86	45.67	74.00	-28.33	Peak	0.00
3	11368.000	14.20	39.33	53.39	48.78	48.92	74.00	-25.08	Peak	0.00
4	14201.698	16.67	40.50	54.10	47.34	50.41	74.00	-23.59	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.22	50.58	74.00	-23.42	Peak	0.00
6	pp18800.000	18.64	42.60	54.38	46.04	52.98	74.00	-21.02	Peak	0.00

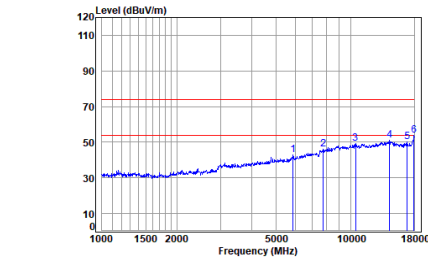
BLE_1M_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 01853MM
Mode : 2402 TX RSE
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6901.626	10.05	34.40	56.60	53.90	41.75	74.00	-32.25	Peak	0.00
2	7454.429	11.03	36.80	56.22	56.32	47.93	74.00	-26.07	Peak	0.00
3	11172.560	14.21	39.45	53.45	48.65	48.86	74.00	-25.14	Peak	0.00
4	13997.930	16.53	40.59	54.10	47.55	50.57	74.00	-23.43	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.59	49.95	74.00	-24.05	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.52	52.28	74.00	-21.72	Peak	0.00

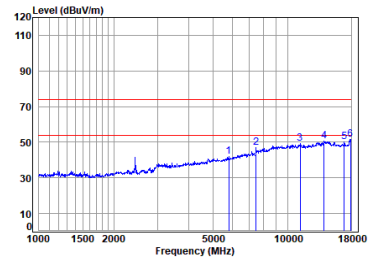
BLE_1M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 01853MM
Mode : 2440 TX RSE
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5864.443	10.02	34.23	56.54	55.09	42.88	74.00	-31.20	Peak	0.00
2	7762.260	11.22	37.00	56.04	53.99	46.17	74.00	-27.83	Peak	0.00
3	10453.970	13.39	39.25	53.55	50.08	49.17	74.00	-24.83	Peak	0.00
4	14325.378	17.03	40.40	54.10	47.60	50.93	74.00	-23.07	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.92	50.28	74.00	-23.72	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	46.88	53.64	74.00	-20.36	Peak	0.00

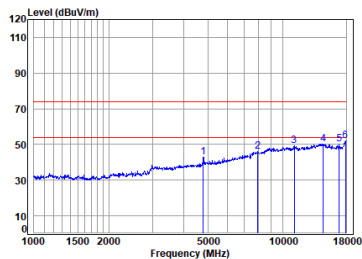
BLE_1M_TX_CH_19_Vertical



Condition: 3m VERTICAL
Job No : 01853MM
Mode : 2440 TX RSE
BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5797.032	10.07	33.99	56.51	54.42	41.97	74.00	-32.03	Peak	0.00
2	7454.429	11.03	36.80	56.22	55.16	46.77	74.00	-27.23	Peak	0.00
3	11204.900	14.25	39.50	53.44	48.93	49.24	74.00	-24.76	Peak	0.00
4	13997.930	16.53	40.59	54.10	47.65	50.67	74.00	-23.33	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.79	50.15	74.00	-23.85	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	45.15	51.73	74.00	-22.27	Peak	0.00

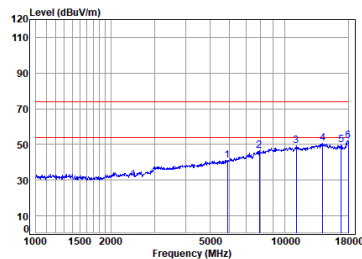
BLE_1M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 01853MM
Mode : 2400 TX RSE
BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4790.245	8.89	32.56	55.91	57.46	43.00	74.00	-31.00	Peak	0.00
2 7943.838	11.48	37.30	55.93	53.31	46.16	74.00	-27.84	Peak	0.00
3 11140.510	14.17	39.30	53.46	49.00	49.09	74.00	-24.91	Peak	0.00
4 14575.570	16.46	40.20	54.10	47.83	50.39	74.00	-23.61	Peak	0.00
5 16891.040	19.64	38.60	53.88	45.72	50.08	74.00	-23.92	Peak	0.00
6 pp17896.258	18.87	41.97	54.26	45.59	52.17	74.00	-21.83	Peak	0.00

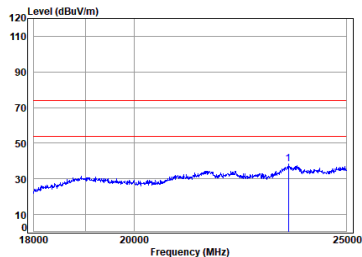
BLE_1M_TX_CH_39_Vertical



Condition: 3m VERTICAL
Job No : 01853MM
Mode : 2400 TX RSE
BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 5881.418	10.00	34.26	56.55	53.57	41.28	74.00	-32.72	Peak	0.00
2 7898.049	11.48	37.29	55.96	53.72	46.53	74.00	-27.47	Peak	0.00
3 11140.510	14.17	39.30	53.46	49.15	49.24	74.00	-24.76	Peak	0.00
4 14242.800	16.83	40.46	54.10	47.54	50.73	74.00	-23.27	Peak	0.00
5 16891.040	19.64	38.60	53.88	45.51	49.87	74.00	-24.13	Peak	0.00
6 pp18000.000	18.64	42.60	54.30	45.29	52.23	74.00	-21.77	Peak	0.00

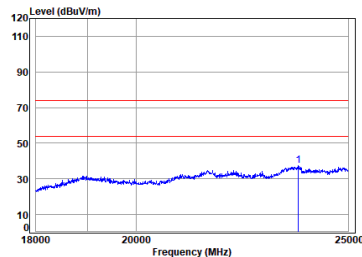
BLE_1M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 01853MM
Mode : 2402 TX RSE
BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23525.910	6.76	38.35	50.31	53.00	38.26	74.00	-35.74	Peak	-9.54

BLE_1M_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 01853MM
Mode : 2402 TX RSE
BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23727.710	6.77	38.76	50.35	51.60	37.24	74.00	-36.76	Peak	-9.54

7.5 Maximum Conducted Output Power

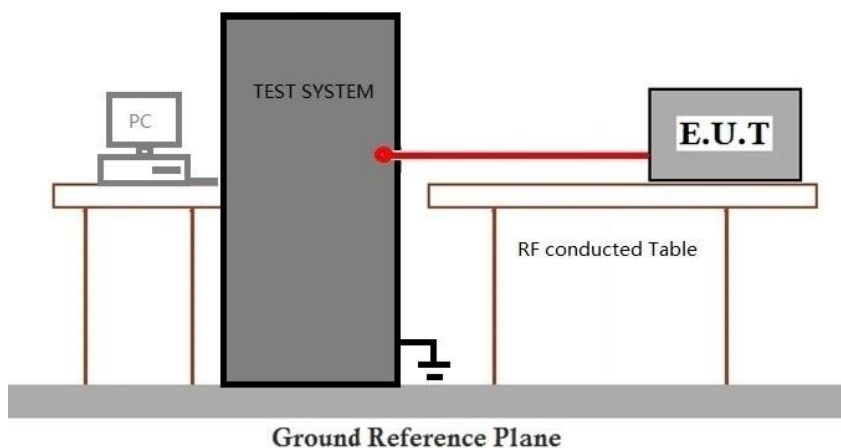
Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.1

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

7.5.1 Test Setup Diagram



7.5.2 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

The detailed test data see: Reference report SZCR250100020703

7.6 Minimum 6dB Bandwidth

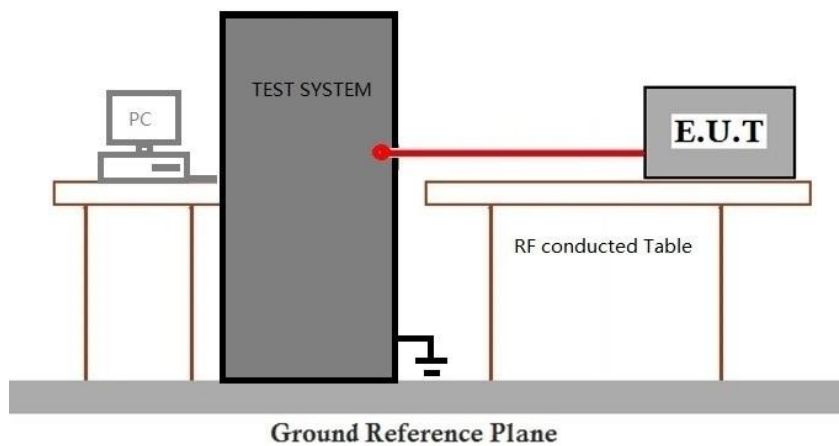
Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2020) Section 11.8.1

Limit:

≥500 kHz

7.6.1 Test Setup Diagram



7.6.2 Measurement Procedure and Data

The detailed test data see: Reference report SZCR250100020703

7.7 Power Spectrum Density

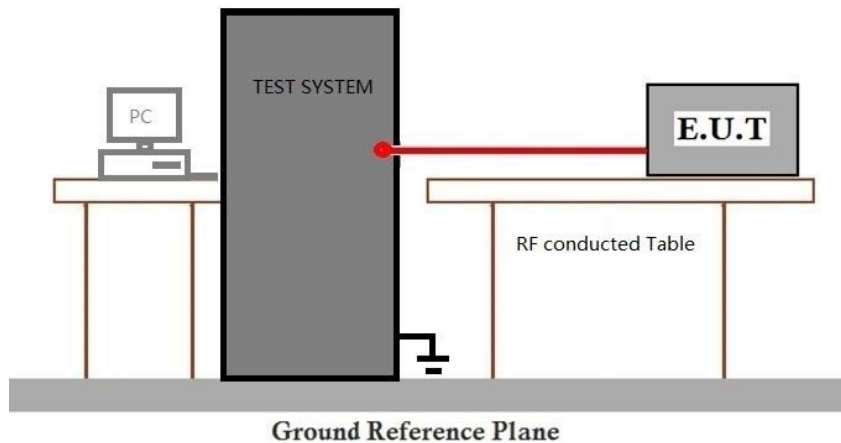
Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2020) Section 11.10.3

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 Test Setup Diagram



7.7.2 Measurement Procedure and Data

The detailed test data see: Reference report SZCR250100020703

7.8 Conducted Band Edges Measurement

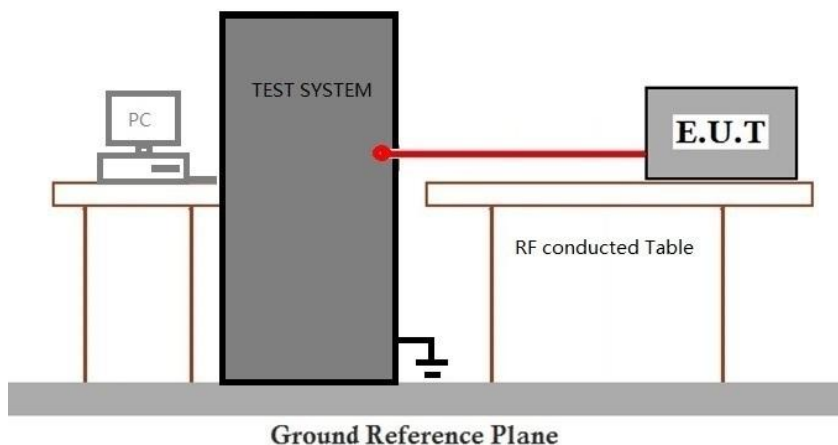
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 6.10.4

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)).

7.8.1 Test Setup Diagram



7.8.2 Measurement Procedure and Data

The detailed test data see: Reference report SZCR250100020703



7.9 Conducted Spurious Emissions

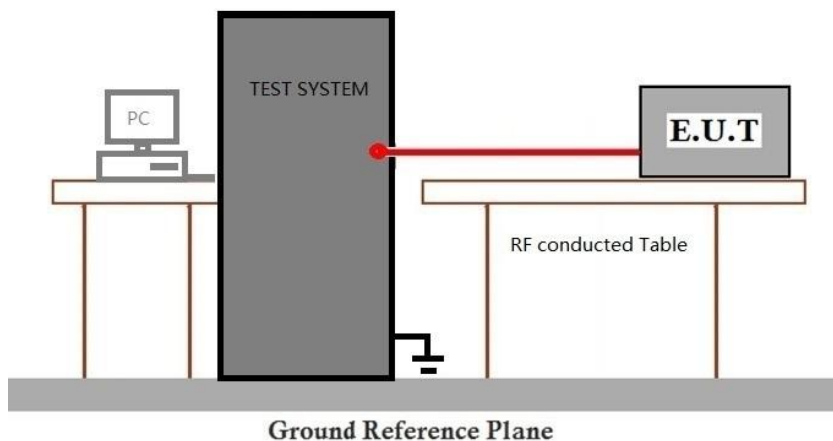
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

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)).

7.9.1 Test Setup Diagram



7.9.2 Measurement Procedure and Data

The detailed test data see: Reference report SZCR250100020703



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8 Test Setup Photo

Please refer to SZCR2605001853WM Appendix_Setup Photo-BT WIFI

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2605001853WM.

- End of the Report -

