Test Report Number:	**LCZE25080023**	***Total Page(s):*** 31
Applicant Name:	GUANGDONG TOPSTRONG LIVING INNOVATION & INTEGRATION CO LTD	
Applicant Address:	Hesui Industry Zone,DongFeng Town,ZhongShan City,GuangDong Province.P.R.China	
Test item:	Fingerprint lock	
Model / Type Reference:	WLF15-TT/SNL，WLF15-TT/BLK	
FCC ID:	2BRNV-WLF	
Date of Issue:	2025-08-14	
Testing Laboratory:	LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
Test Specification:	FCC 47 CFR Part 15 Subpart C: Section 15.247	
Test Result:	Passed	

Compiled by:			**Reviewed by:**		
2025-08-14	Rex He	Rex He	2025-08-14	Tension Li	Tension Li
Date	*Name*	*Signature*	*Date*	*Name*	*Signature*

Remark:

N/A

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1 Summary of Test Results

Description of Test Item	Standard	Result
Antenna Requirement	FCC Part 15 Subpart C:15.203/247(c)	PASS
AC Power Line Conducted Emission	FCC Part 15 Subpart C:15.207	PASS
ConductedPeak Output Power	FCC Part 15 Subpart C:15.247(b)	PASS
6 dB Bandwidth	FCC Part 15 Subpart C:15.247(a)(2)(iii)	PASS
Power Spectral Density	FCC Part 15 Subpart C:15.247(e)	PASS
Band Edge	FCC Part 15: 15.209 FCC Part 15: 15.247(d)	PASS
Spurious Emission	FCC Part 15: 15.247(d)	PASS
Note: N/A is an abbreviation for Not Applicable,		

Test Standard Used:47 CFR Part 15 Subpart C: Section 15.247

Test procedure used: ANSI C63.10:2020

2 General test information

2.1 Description of EUT

Product Name	:	Fingerprint lock
Model Number	:	WLF15-TT/SNL，WLF15-TT/BLK
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 6V 1.2A
FCC ID	:	2BRNV-WLF
Radio Specification	:	Bluetooth V5.0
Operation frequency	:	2402MHz -2480MHz
Modulation	:	BLE: GFSK
Data rate	:	1Mbps
Antenna Type	:	PCB antenna
Antenna Gain	:	1.78dBi

Remark:The device meets the requirements stated within Parts 15.247(g)&(h) in that they were Developed under the Bluetooth protocol and operate as a true frequency hopping system.The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

According to the declaration from the applicant, therefore only one model WLF15-TT/BLK was fully tested in the report.

2.2 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	11	2422	21	2442	31	2462
2	2404	12	2424	22	2444	32	2464
3	2406	13	2426	23	2446	33	2466
4	2408	14	2428	24	2448	34	2468
5	2410	15	2430	25	2450	35	2470
6	2412	16	2432	26	2452	36	2472
7	2414	17	2434	27	2454	37	2474
8	2416	18	2436	28	2456	38	2476
9	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

2.3 Test channel list

Channel	Frequency (MHz)
1	2402
20	2440
40	2480

2.4 Testing

Date of receipt of test item : 2025-08-05
Date (s) of performance of tests : 2025-08-14

2.5 Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	15-35℃
Humidity range:	20-75%
Pressure range:	98-101kPa

2.6 Test laboratory

LCTECH Guangdong Testing Services Co.,Ltd.

Add: 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Test Sites: 1/F., Building I, Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

2.7 Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.74dB
Uncertainty for Radiation Emission test(30MHZ-1GHZ)	4.92dB
Uncertainty for Radiation Emission test (Above 1GHz)	4.23dB

Note：This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 Equipment list

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Radiated Emission (30 MHz–1000 MHz)						☒
1	EMI Test Receiver	R&S	ESCI 7	100965	2025-06-13	2026-06-12
2	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	2025-06-14	2028-06-13
3	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	2024-12-17	2027-12-16
4	RF Cable	R&S	R01	10403	2024-12-09	2025-12-08
5	EMI Test Software	AUDIX	E3	Version No: 6.111221a	N/A	N/A
Disturbance Voltage						☒
6	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	2024-12-09	2025-12-08
7	Artificial Mains Network	Rohde&Schwarz	ENV216	3560655012	2024-12-09	2025-12-08
8	Shield Room	Rongxiang	8X5X3.5	992276296	2022-07-01	2027-06-30
9	Conducted Emission Test Software	FALA	EZ-EMC	Version No: LCTECH-03A	N/A	N/A
Radiated Emission (Above 1 GHz)						☒
10	EMI Test Receiver	R&S	ESCI 7	100965	2025-06-13	2026-06-12
11	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	2025-06-14	2028-06-13
12	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	2024-12-17	2027-12-16
13	RF Cable	R&S	R01	10403	2024-12-09	2025-12-08
14	Doppelsteg Breitband Hornantenne Double Ridge Broadband Horn	Schwarzbeck	BBHA 9120 D	N/A	2024-12-11	2025-12-10
15	Signal Analyzer	Keysight	N9020A	SER MY52220373	2024-12-09	2025-12-08
16	Pre-amplifier	sinancidian	COP-01G18G-45dB	N/A	2024-12-09	2025-12-08
Radiated electromagnetic disturbances(>1.6m)						☒
17	EMI Test Receiver	R&S	ESCI 7	100965	2025-06-13	2026-06-12
18	EMI Test Software	AUDIX	E3	Version No: 6.111221a	N/A	N/A
	Active loop antenna	SCHWARZBECK	FMZB1519	1519-045	2025-06-14	2028-06-13
RF Conducted Test						☒
20	Signal Analyzer	Keysight	N9020A	MY52220373	2024-12-09	2025-12-08

☐: **Not Used**
☒: **Used**

4 Test Results

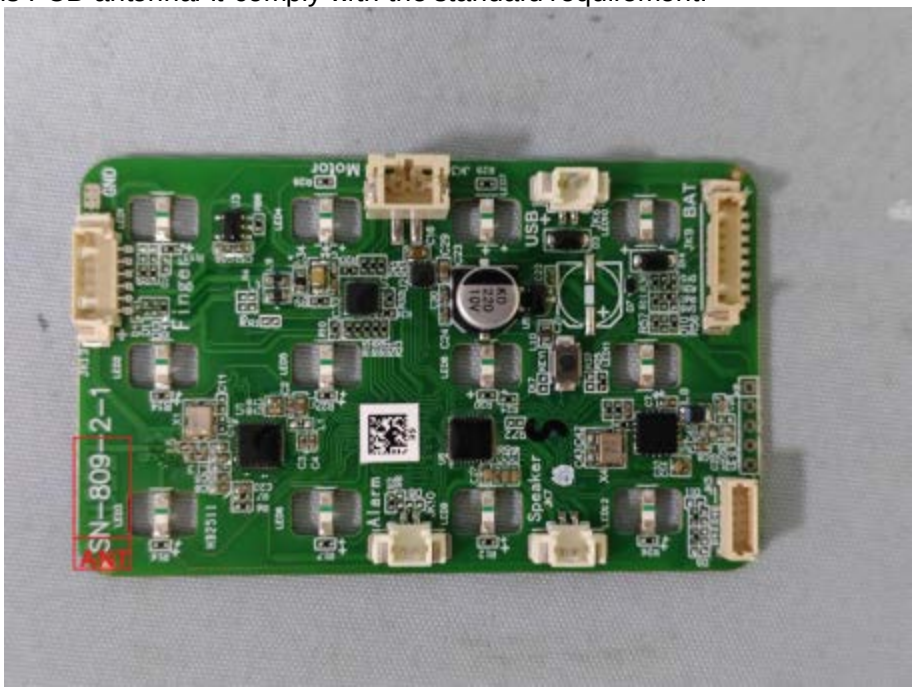
4.1 Antenna requirement

Standard requirement:

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.

15.247(c) (1)(i) requirement:
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:
The antenna is PCB antenna. It comply with the standard requirement.



4.2 AC Power Line Conducted Emission

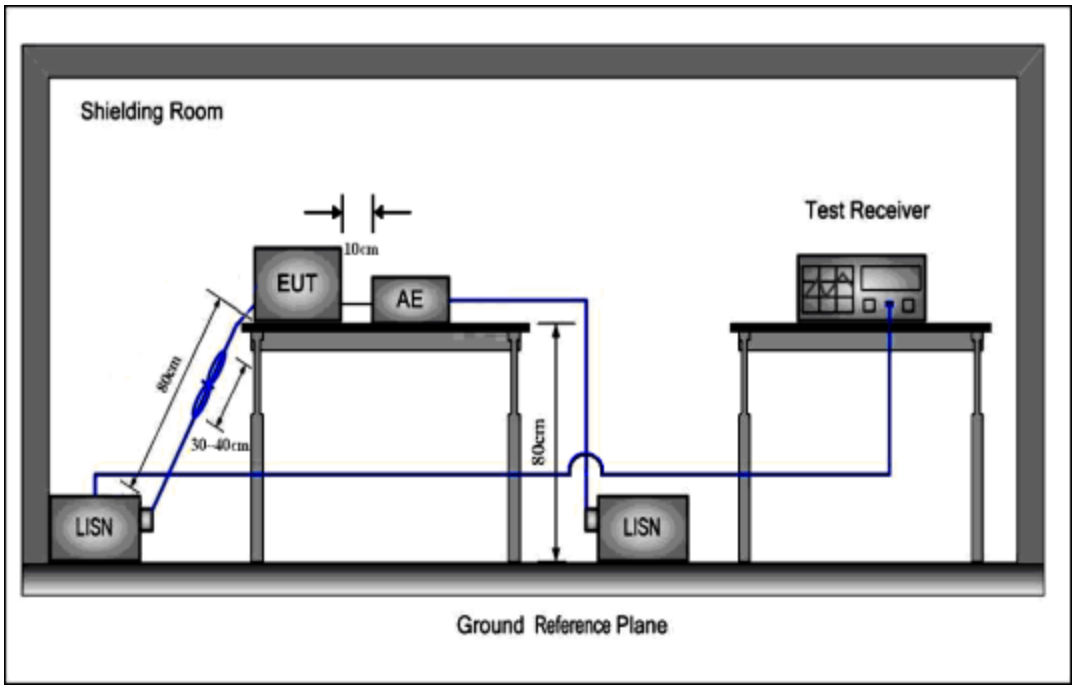
Results: **Pass**

Date of testing	:	August05, 2025
Test procedure	:	ANSI C63.10 Clause 6.2
Frequency range	:	0.15- 30MHz
Kind of test site	:	shielded room
Limits	:	CFR Title 47 Part 15 Subpart C:Section 15.207

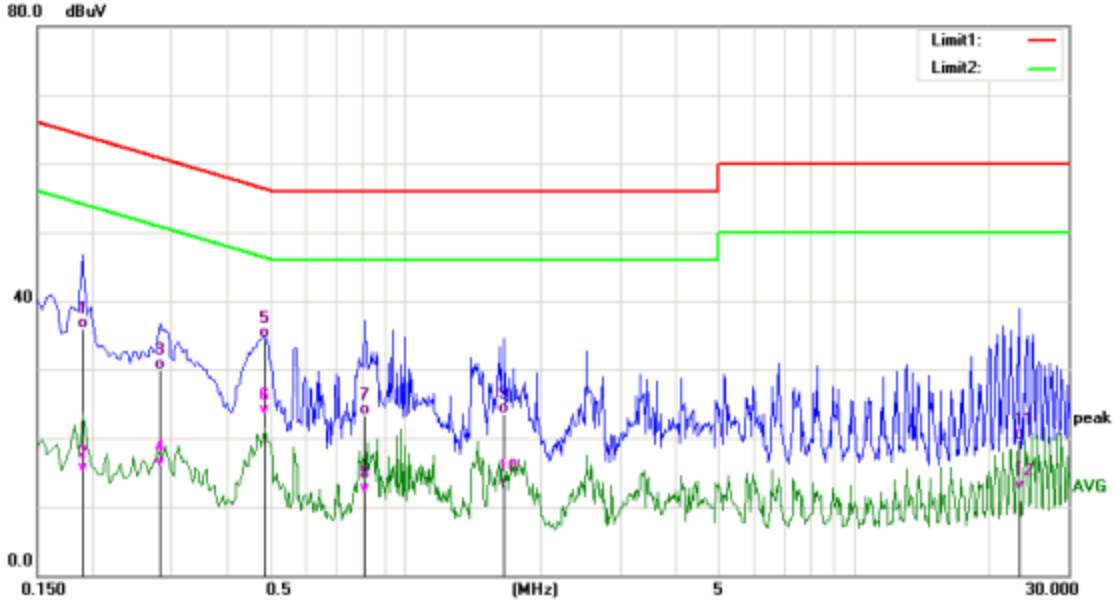
Test setup

Artificial Hand	:	Not applied
Earthing	:	Not applied
Temperature	:	25°C
Humidity	:	57%
Air pressure	:	101KPA

Test Connection Diagram



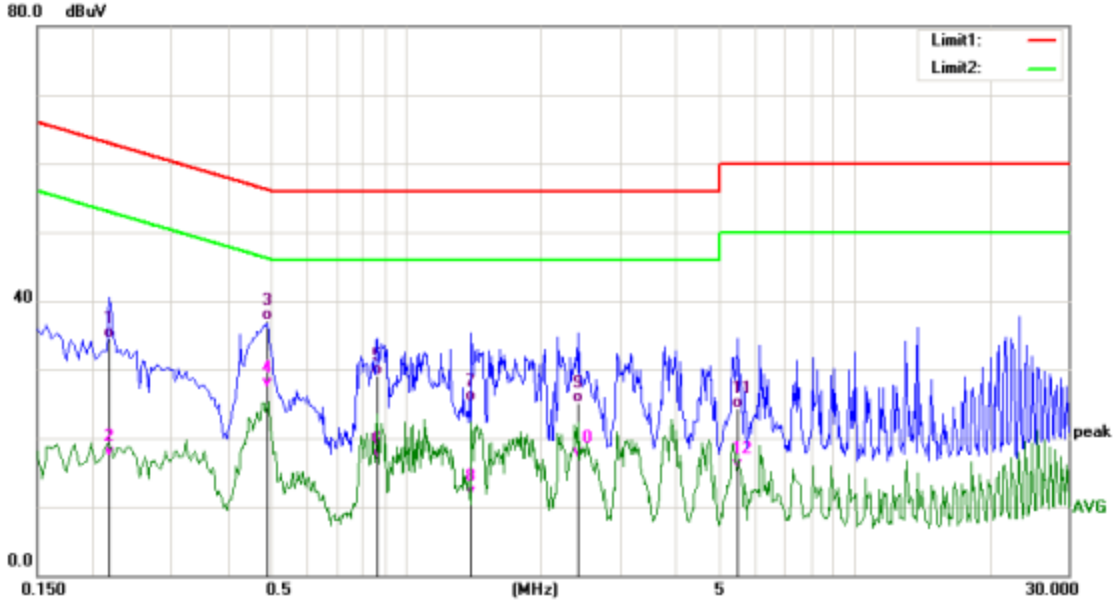
Test Data for model WLF15-TT/BLK
Power Source :120Vac, 60Hz
Terminal under Test: Live Line
Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz, Peak and Average Scan:



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1900	26.14	9.76	35.90	64.04	-28.14	QP
2	0.1900	5.18	9.76	14.94	54.04	-39.10	AVG
3	0.2820	20.09	9.88	29.97	60.76	-30.79	QP
4	0.2820	5.77	9.88	15.65	50.76	-35.11	AVG
5	0.4860	24.48	10.09	34.57	56.24	-21.67	QP
6	0.4860	13.18	10.09	23.27	46.24	-22.97	AVG
7	0.8100	13.10	10.19	23.29	56.00	-32.71	QP
8	0.8100	1.81	10.19	12.00	46.00	-34.00	AVG
9	1.6620	13.34	10.09	23.43	56.00	-32.57	QP
10	1.6620	2.82	10.09	12.91	46.00	-33.09	AVG
11	23.3860	7.91	11.75	19.66	60.00	-40.34	QP
12	23.3860	0.54	11.75	12.29	50.00	-37.71	AVG

Terminal under Test: Neutral Line
Peak and Average Scan:

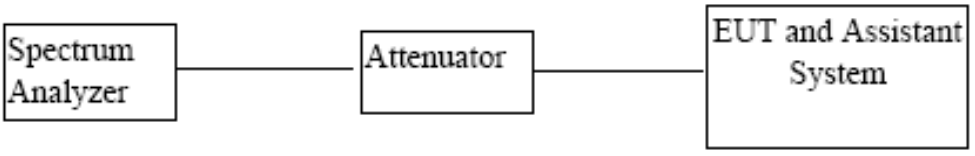


Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2180	24.62	9.80	34.42	62.89	-28.47	QP
2	0.2180	7.57	9.80	17.37	52.89	-35.52	AVG
3	0.4900	26.91	10.10	37.01	56.17	-19.16	QP
4	0.4900	17.23	10.10	27.33	46.17	-18.84	AVG
5	0.8620	18.90	10.20	29.10	56.00	-26.90	QP
6	0.8620	6.76	10.20	16.96	46.00	-29.04	AVG
7	1.4020	15.12	10.14	25.26	56.00	-30.74	QP
8	1.4020	1.32	10.14	11.46	46.00	-34.54	AVG
9	2.4300	15.02	10.13	25.15	56.00	-30.85	QP
10	2.4300	6.96	10.13	17.09	46.00	-28.91	AVG
11	5.4940	13.80	10.50	24.30	60.00	-35.70	QP
12	5.4940	5.00	10.50	15.50	50.00	-34.50	AVG

4.3 ConductedPeak Output Power

Test Connection Diagram



Test Procedure

(1) Configure EUT and assistant system according clause 2.3 and 3.2

(2) Connect EUT's antenna output to spectrum analyzer by RF cable.

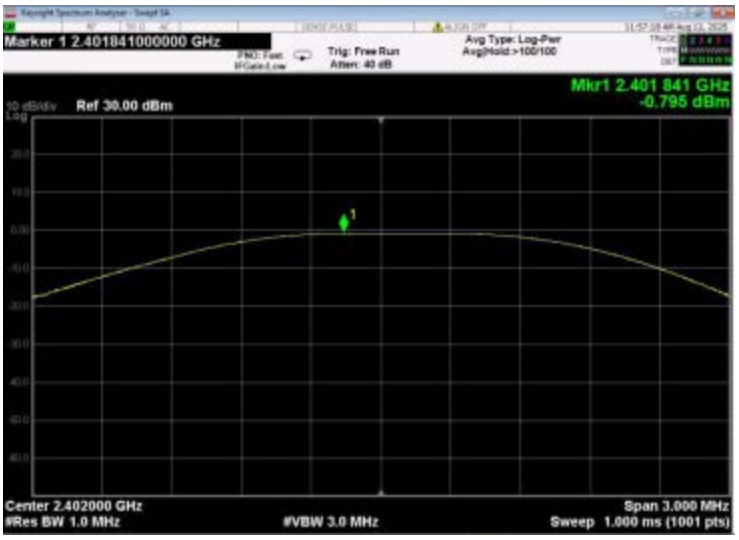
(3) Configure EUT work in test mode as stated in clause 2.3.

(4) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=2MHz(above 20dB bandwidth of measured signal), VBW=3MHz

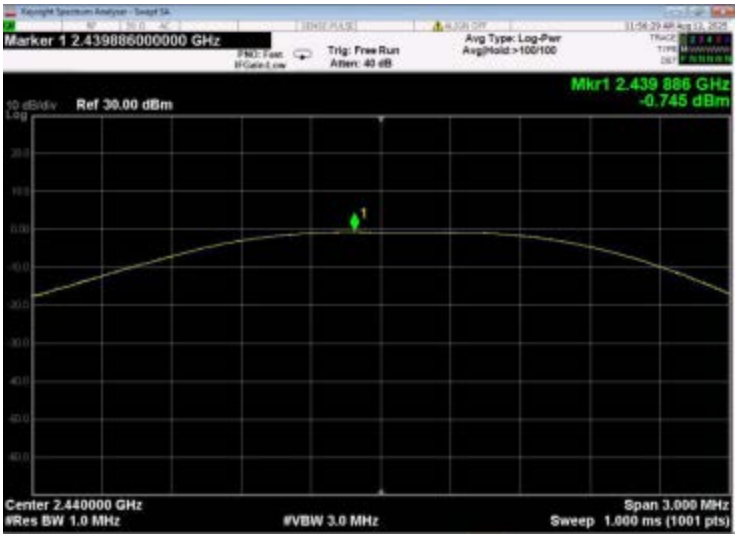
Note: The attenuator loss was inputted into spectrum analyzer as amplitude offset.

Test Result:

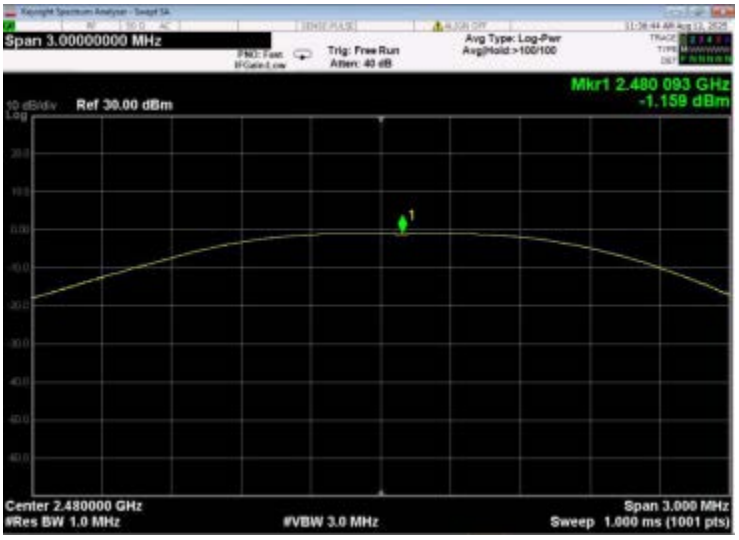
Test Mode	Antenna	Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Verdict
BLE_1M	Ant1	2402	-0.795	≤30	PASS
BLE_1M	Ant1	2440	-0.745	≤30	PASS
BLE_1M	Ant1	2480	-1.159	≤30	PASS



2402MHz



2440MHz



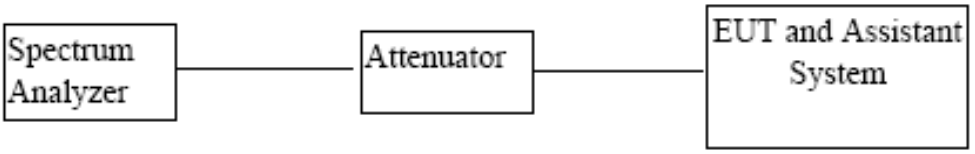
2480MHz

4.4 6 dB Bandwidth

Limit:

Frequency range (MHz)	Standard requirement	Limit
2402-2480	FCC Part 15 Subpart C: 15.247(a)(2)(iii)	⩾500kHz

Test setup:



Test procedure:

Set the spectrum analyzer:
a) Set RBW = 100 kHz
b) Set the VBW⩾[3 × RBW]
c) Detector = peak.
d) Trace mode = max hold.
e) Sweep = auto couple
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
h) Span=2*BW~5*BW

Test results:

Frequency (MHz)	Measured 6dBbandwidth (MHz)	Limit	Result
2402	0.543	⩾500kHz	Pass
2440	0.545	⩾500kHz	Pass
2480	0.546	⩾500kHz	Pass

Channel 1: 2.402GHz

Channel 20: 2.440GHz

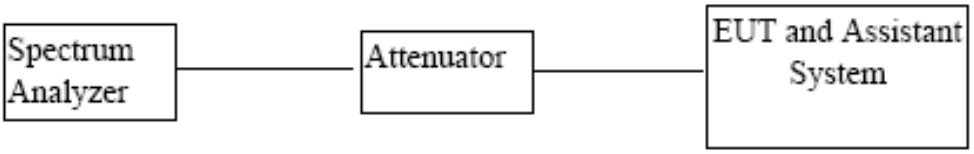
Channel 40: 2.480GHz

4.5 Power Spectral Density

Limit:

Frequency range (MHz)	Standard requirement	Limit
2402-2480	FCC Part 15 Subpart C: 15.247(e)	8 dbm (in any 3kHz)

Test setup:



Test procedure:

Set the spectrum analyzer:
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span= 1.5 × DTS bandwidth.
c) Set the RBW to 3 kHz≤RBW ≤100 kHz.
d) Set the VBW ≥[3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test results:

Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402	-14.234	8	Pass
2440	-14.208	8	Pass
2480	-14.478	8	Pass

Channel 1: 2.402GHz

Channel 20: 2.440GHz

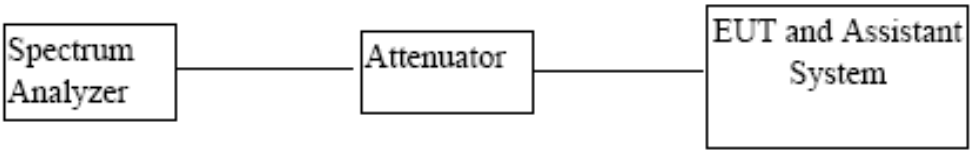
Channel 40: 2.480GHz

4.6 Band Edge

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.

Test setup:

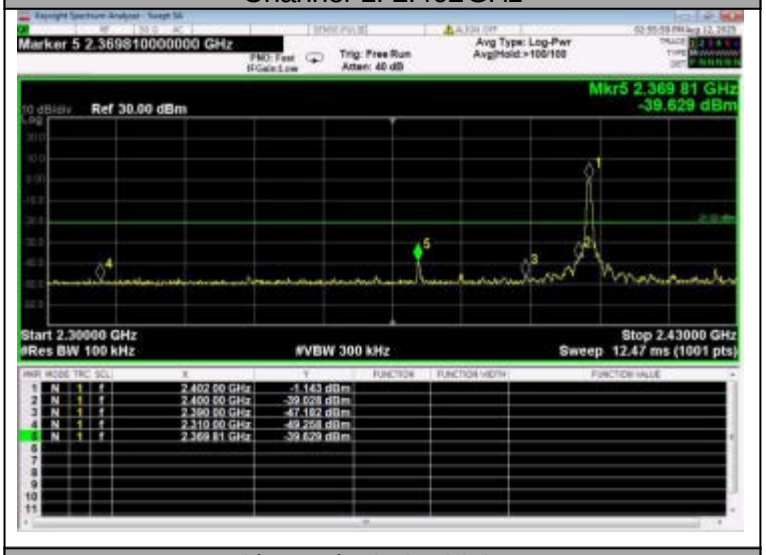


Test procedure:

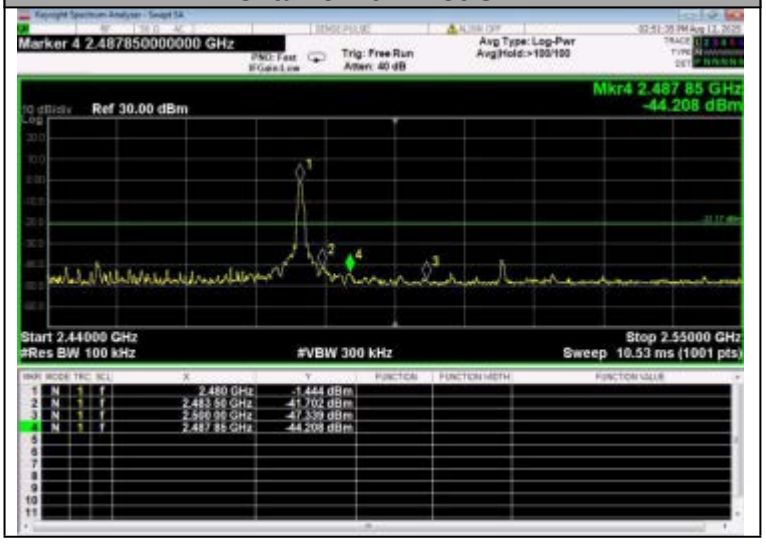
Set the spectrum analyzer:
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span= 1.5 × DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ⩾[3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test results:

Channel 1: 2.402GHz



Channel 40: 2.480GHz

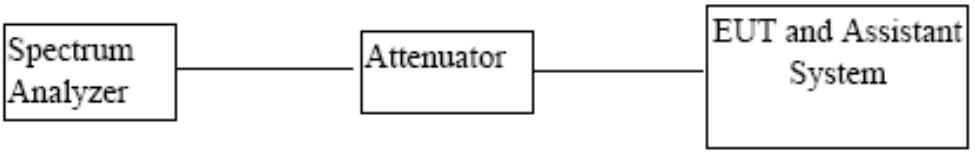


4.7 Spurious RF conducted emissions

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.

Test setup:

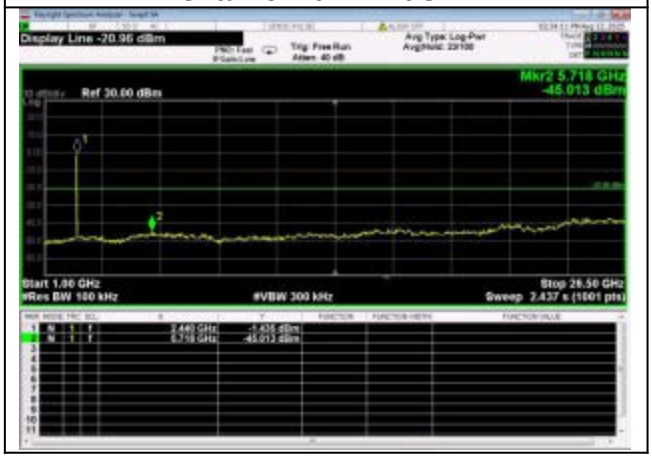


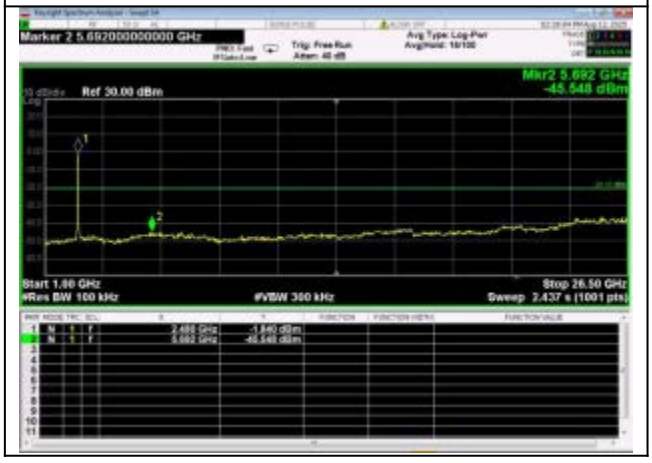
Test procedure:

Set the spectrum analyzer:
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span= 1.5 × DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ⩾[3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test results:

Channel 1: 2.402GHz	Channel 1: 2.402GHz
Channel 1: 2.402GHz	

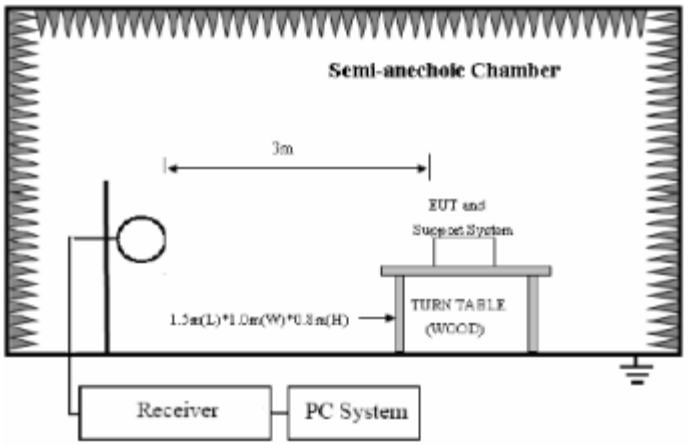
Channel 20: 2.440GHz	Channel 20: 2.440GHz
Channel 20: 2.440GHz	
	

Channel 40: 2.480GHz	Channel 40: 2.480GHz
Channel 40: 2.480GHz	
	

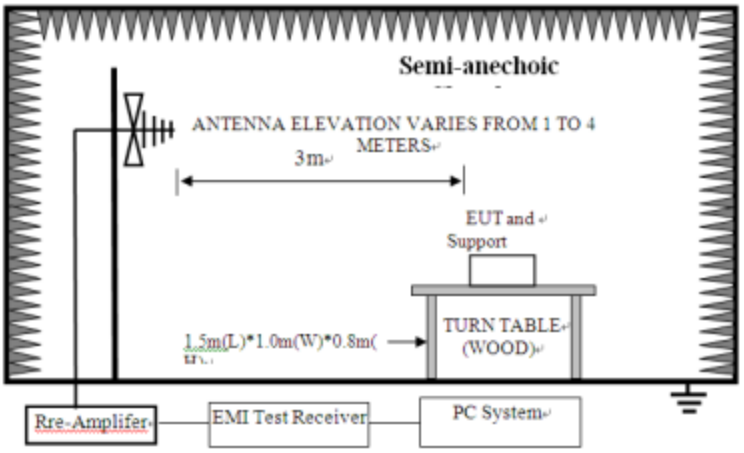
4.8 Spurious Radiated emission

Test setup:

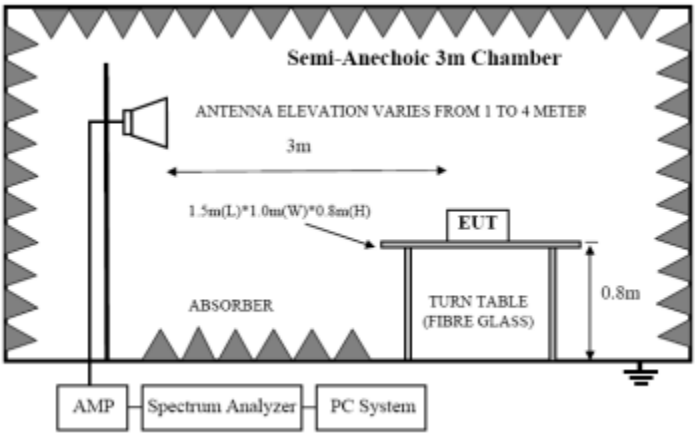
In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

Limit
FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

FCC 15.209 Limit.

Frequency（MHz）	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		uV/m	dB(uV)/m
0.009 ~ 0.490	300	2400/F(KHz) 67.6	20log(F)
0.490 ~ 1.705	30	24000/F(KHz) 87.6	20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPRQP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.Radiatedemissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

Limit3m(dBuV/m)= Limit30m(dBuV/m) + 40Log(30m/3m)

Limit for this EUT
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with15.209 limits.

Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoicchamber.

(2) Setup EUT and assistant system according clause 2.3 and 8.2

(3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10-2020 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antennawas positioned with its plane vertical from the EUT and rotated about its vertical axis for maximumresponse at each azimuth position around the EUT. And the loop antenna also be positioned with its planehorizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. Formeasurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT,Measurements were made with the antenna positioned in both the horizontal and vertical planes ofPolarization, and the measurement antenna was varied from 1 m to 4 m. in height above the referenceground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiatedemissions from 9KHz to 25GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT wasrotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m aboveground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produceshighest emissions.Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated,

and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performedwith frequency range from 9KHz to 18GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antennaheight was varied between 1m and 4m in order to maximize the emission. Measurements in bothhorizontal and vertical polarities were made and the data was recorded. In order to find the maximumemission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.

(6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz andabove 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions alsobe measured and need comply with Peak limit.

(7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver withbelow RBW

Frequency Band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

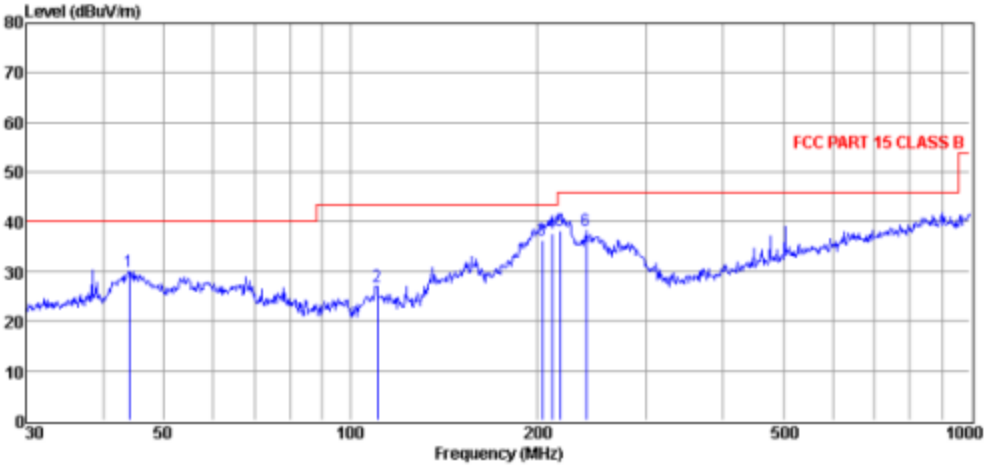
(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, andthe RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at10Hz for Average measure(according ANSI C63.10-2020 clause 4.2.3.2.3 procedure for averagemeasure). Both PK and AV level test, PK detector is used.

Test result:

Test Data for model WLF15-TT/BLK Power Source :120Vac, 60Hz

Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz,Below 1G:

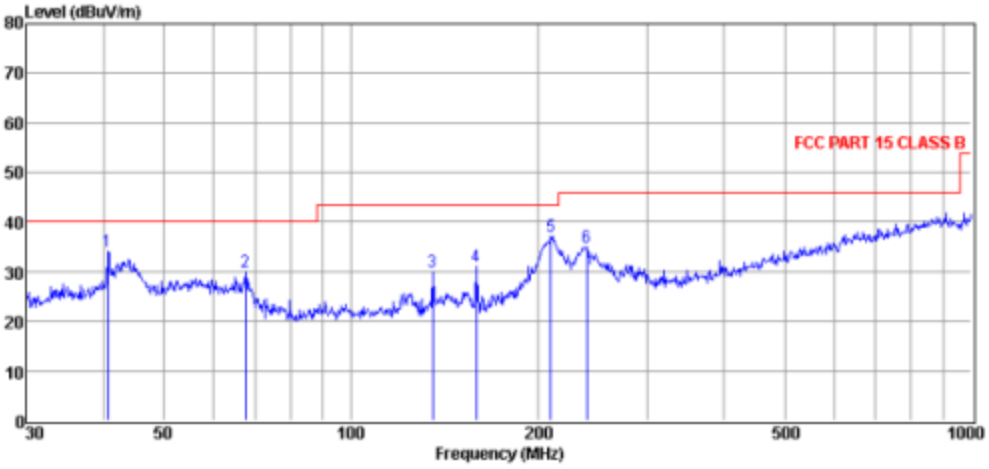
Horizontal:



Quasi-peak measurement:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.97	12.45	16.88	0.00	0.68	30.01	40.00	-9.99	Peak	HORIZONTAL
2	110.57	13.60	12.29	0.00	1.12	27.01	43.50	-16.49	Peak	HORIZONTAL
3	204.24	23.85	10.83	0.00	1.59	36.27	43.50	-7.23	QP	HORIZONTAL
4	211.53	24.91	11.06	0.00	1.72	37.69	43.50	-5.81	QP	HORIZONTAL
5	218.31	25.09	11.33	0.00	1.70	38.12	46.00	-7.88	QP	HORIZONTAL
6	239.99	24.10	12.20	0.00	1.83	38.13	46.00	-7.87	Peak	HORIZONTAL

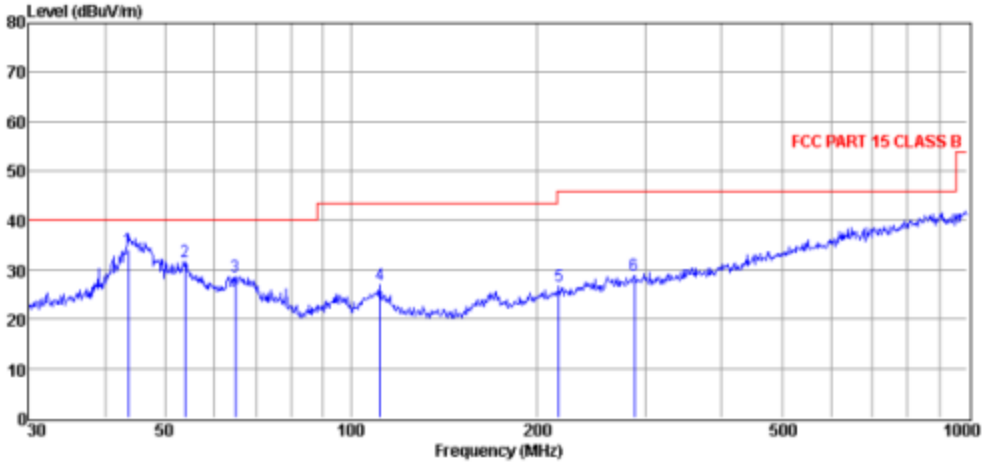
Vertical:



Quasi-peak measurement:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	40.56	19.85	13.72	0.00	0.59	34.16	40.00	-5.84	Peak	VERTICAL
2	67.68	18.71	10.48	0.00	0.67	29.86	40.00	-10.14	Peak	VERTICAL
3	135.51	20.60	8.18	0.00	1.15	29.93	43.50	-13.57	Peak	VERTICAL
4	159.23	21.85	7.97	0.00	1.25	31.07	43.50	-12.43	Peak	VERTICAL
5	210.05	24.37	11.00	0.00	1.72	37.09	43.50	-6.41	Peak	VERTICAL
6	239.99	21.01	12.20	0.00	1.83	35.04	46.00	-10.96	Peak	VERTICAL

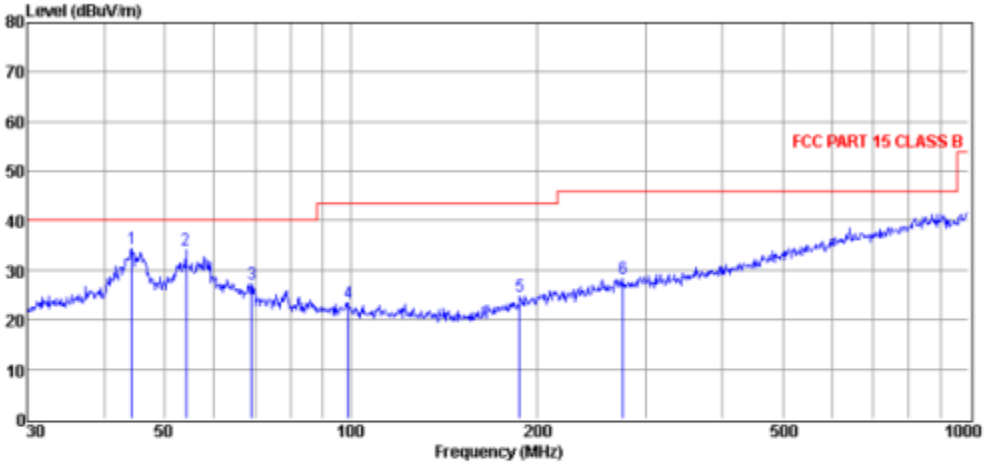
Test Data for model WLF15-TT/BLK Power Source :Built-in battery
Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz,Below 1G:
Horizontal:



Quasi-peak measurement

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.51	16.77	16.58	0.00	0.67	34.02	40.00	-5.98	QP	HORIZONTAL
2	53.88	17.87	13.01	0.00	0.71	31.59	40.00	-8.41	Peak	HORIZONTAL
3	64.89	16.47	11.53	0.00	0.69	28.69	40.00	-11.31	Peak	HORIZONTAL
4	111.35	13.78	12.00	0.00	1.09	26.87	43.50	-16.63	Peak	HORIZONTAL
5	217.54	13.60	11.30	0.00	1.70	26.60	46.00	-19.40	Peak	HORIZONTAL
6	287.99	13.29	13.56	0.00	2.06	28.91	46.00	-17.09	Peak	HORIZONTAL

Vertical:



Quasi-peak measurement

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	44.28	16.78	16.77	0.00	0.68	34.23	40.00	-5.77	Peak	VERTICAL
2	54.07	19.11	14.31	0.00	0.71	34.13	40.00	-5.87	Peak	VERTICAL
3	69.11	16.58	9.94	0.00	0.66	27.18	40.00	-12.82	Peak	VERTICAL
4	99.18	12.49	10.10	0.00	0.83	23.42	43.50	-20.08	Peak	VERTICAL
5	187.75	13.44	10.02	0.00	1.40	24.86	43.50	-18.64	Peak	VERTICAL
6	276.12	12.94	13.32	0.00	2.00	28.26	46.00	-17.74	Peak	VERTICAL

Above 1G:Pre-scan all test modes, found worst case at 2402MHz, and so only show the test result of 2402MHz

2402MHz:

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2122	73.58	26.92	53.99	4.15	50.66	74.00	-23.34	Peak	H
2	2122	63.74	26.92	53.99	4.15	40.82	54.00	-13.18	Average	H
3	2122	65.93	26.92	53.99	4.15	43.01	74.00	-30.99	Peak	V
4	2122	55.76	26.92	53.99	4.15	32.84	54.00	-21.16	Average	V
5	4961	72.25	32.78	53.24	5.00	56.79	74.00	-17.21	Peak	H
6	4961	62.57	32.78	53.24	5.00	47.11	54.00	-6.89	Average	H
7	4961	67.83	32.78	53.24	5.00	52.37	74.00	-21.63	Peak	V
8	4961	57.65	32.78	53.24	5.00	42.19	54.00	-11.81	Average	V

Low channel:

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2380	62.91	27.50	53.96	4.43	40.88	74.00	-33.12	Peak	H
2	2380	52.51	27.50	53.96	4.43	30.48	54.00	-23.52	Average	H
3	2380	60.08	27.50	53.96	4.43	38.05	74.00	-35.95	Peak	V
4	2380	50.48	27.50	53.96	4.43	28.45	54.00	-25.55	Average	V

High channel:

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2490	74.07	27.77	53.95	4.55	52.44	74.00	-21.56	Peak	H
2	2490	64.57	27.77	53.95	4.55	42.94	54.00	-11.06	Average	H
3	2490	65.22	27.77	53.95	4.55	43.59	74.00	-30.41	Peak	V
4	2490	55.42	27.77	53.95	4.55	33.79	54.00	-20.21	Average	V

5 Test Setup Photo

Refer to <Setup Photos>

6 Test Setup of EUT

Refer to <External Photos and Internal Photos>

------End of test report------