

TEST REPORT

Applicant: NETPRISMA INC.

EUT Description: Multi-mode Smart LTE Module with Wi-Fi & Bluetooth

Model: SUC200-LD

Brand: Vrileg

FCC ID: 2BEY3SUC200LDA

Standards: FCC 47 CFR Part 15 Subpart C

Date of Receipt: 2025/03/03

Date of Test: 2025/03/03 to 2025/04/10

Date of Issue: 2025/04/14

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise, without written approval of TOWE, the test report shall not be reproduced except in full.





Huang Kun Approved By:

Chen Chengfu Reviewed By:





Revision History

Rev.	Issue Date	Description	Revised by
01	2025/04/14	Original	Chen Chengfu



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Summary of Test Results

Clause	FCC Part	Test Items	Result
4.1	§15.203/15.247(b)	Antenna Requirement	PASS
4.2	§15.207	AC Power Line Conducted Emission	N/A
4.3	§15.247 (b)(3)	Output Power	PASS
4.4	§15.247 (a)(2)	Occupied Bandwidth	Reporting purposes only
4.5	§15.247 (e)	Power Spectral Density	PASS
4.6	§15.247(d)	Band Edge for Conducted Emissions	PASS
4.7	§15.247(d)	Spurious RF Conducted Emissions	PASS
4.8	§15.205 §15.209	Radiated Spurious emissions and Band Edge	PASS

Test Method: ANSI C63.10:2020, KDB 558074 D01 15.247 Mesa Guidance v05r02. Remark:

^{1.} Pass is EUT meets standard requirements.

^{2.} The EUT is DC power supply, "N/A" denotes "not applicable".



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General Description

1.1 Lab Information

1.1.1 **Testing Location**

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 **Test Facility / Accreditations**

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing

laboratory.

CAB identifier: CN0152 Company Number: 31000

1.2 Client Information

1.2.1 **Applicant**

Applicant:	NETPRISMA INC.
Address:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

1.2.2 **Manufacturer**

Manufacturer:	NETPRISMA INC.
Address:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

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1.3 Product Information

EUT Description:	Multi-mode Smart LTE Module with Wi-Fi & Bluetooth				
Model:	SUC200-LD				
Brand:	Vrileg				
Hardware Version:	R1.0				
Software Version:	SUC200LDNA0101				
SN:	RF Conducted	E1C24LP16000067			
SIV.	RSE	E1C24LP1600	0014		
Bluetooth version:	Bluetooth V5.0				
Support Mode:	☑LE 1M PHY:1Mbps		☐LE 2M PHY:2Mbps		
Modulation Type:	GFSK				
Frequency Range:	2400 ~ 2483.5MHz				
Channel Frequency:	2402 ~ 2480MHz				
Channel Number:	40				
Antenna Type:	⊠ External, ☐ Integrate	ed			
Antonno Coin:	Ant0 (dBi)				
Antenna Gain:	0.47				
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.					





2 Test Configuration

2.1 Test Channel

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

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test Channel	Test Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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2.2 Worst-case configuration and Mode

Modulation Type	LE 1M PHY
Transmitting mode	Keep the EUT was programmed to be in continuously transmitting mode
Normal Link	Keep the EUT operation to normal function.

2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number			
Development Board	NETPRISMA INC.	SMART-EVB-G5	1			
Development Board	NETPRISMA INC.	SUC200-LD-TE-A	1			
Remark: all above the information of table are provided by client.						

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C				
Humidity:	45-56 % RH Ambient				
Voltage:	DC 3.8V (Module Input)				
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of					

the standard testing environment.

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

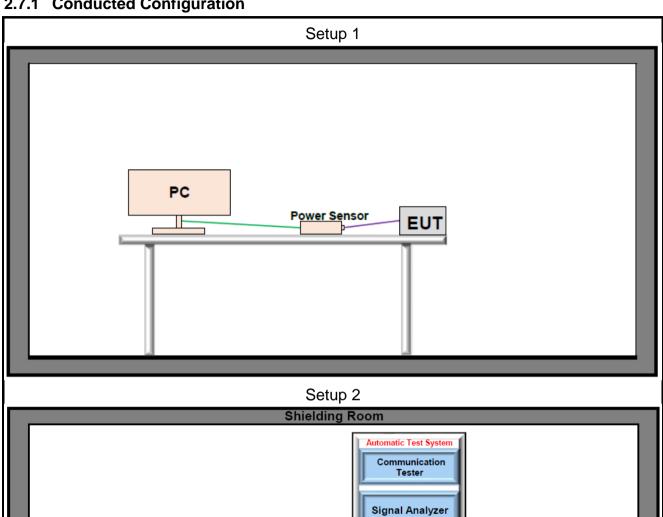
2.6 Modifications

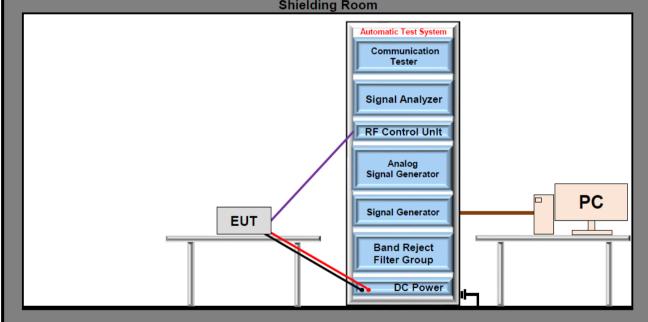
No modifications were made during testing.



2.7 Test Setup Diagram

Conducted Configuration

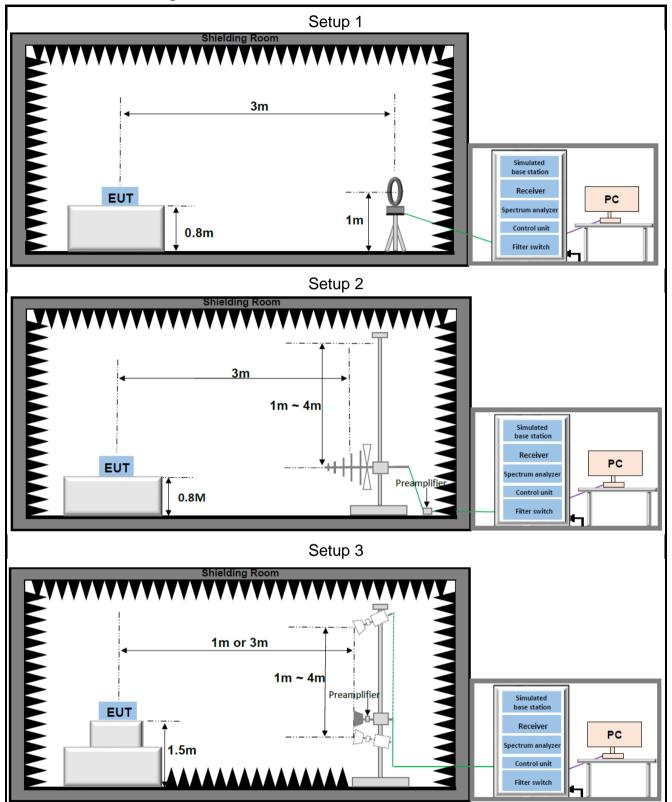








2.7.2 Radiated Configuration





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Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Cianal Analyzar	Kevsight N9020A		11046470400	2024/03/25	2025/03/24
Signal Analyzer	Keysight	N9020A	US46470429	2025/03/14	2026/03/13
Power Sensor	Anritsu	MA24408A	12520	2024/05/30	2025/05/29
Measurement Software	Tonscend	TS1120-3	10659	N/A	N/A

	Radiated Emission							
Description	Manufacturer	Model	S.N.	Last Due	Cal Due			
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24			
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24			
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24			
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2025/06/28			
Cianal Analyzar	Vovoight	NoogoA	MV40400252	2024/03/25	2025/03/24			
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10			
EXA Signal Analyzer, Multitouch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29			
Wideband Radio	R&S	CMW500	150645	2024/03/25	2025/03/24			
Communication Tester	Kas	CIVIVVSOO	150045	2025/03/11	2026/03/10			
Low Noine Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2023/04/08	2025/04/07			
Low Noise Amplifier	ronscend	TAP9K3G40	AP23A6060273	2025/03/11	2027/03/10			
Low Noine Amplifier	Tonscend	TAP01018050	AP22G806258	2023/04/08	2025/04/07			
Low Noise Amplifier	ronscend	1AP01016050	AP22G000250	2025/03/11	2027/03/10			
Laur Naissa Assaulitias	Tanasand	TA D40040040	A D000000047	2023/04/08	2025/04/07			
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10			
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31			
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A			



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3.2 Measurement Uncertainty

Parameter	U _{lab}
Frequency Error	679.98Hz
Output Power	0.76dB
Conducted Spurious Emissions	2.22dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%



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4 Test Results

4.1 Antenna Requirement

Standard Applicable:

47 CFR Part 15C Section 15.203 /247(b)

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(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna gain and type as provided by the manufacturer are as follows:

The antenna Type is External. With maximum gain is 0.47dBi.

Antenna Anti-Replacement Construction: An embedded-in antenna design is used.



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4.2 Output Power

Limits

If With directional antenna gains less than 6 dBi, the limit is 30dBm.

Test Procedure

ANSI C63.10:2020 Section 11.9.1.2(PKPM1) or 11.9.2.3.2(AVGPM-G)

Test Settings

- 1. Set to the maximum power setting and enable the EUT transmit continuously.
- 2. The power output was measured on the EUT antenna port using RF Cable with attenuator connected to a power meter via wideband power sensor. Peak output power was read directly from power meter.
- 3. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1- Setup 1 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.



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4.3 Occupied Bandwidth

Limits

DTSBW: The minimum 6 dB bandwidth shall be at least 500 kHz.

99%BW: None, for reporting purposes only.

Test Procedure

ANSI C63.10:2020 Section 11.8.2 and 6.9.3

Test Settings

- 1. Set to the maximum power setting and enable the EUT transmit continuously.
- 2. The transmitter output is connected to a spectrum analyzer:
- 3. RBW = 100kHz(DTS)
- 4. RBW = 1% 5%(99%BW)
- 5. VBW = 3 times the RBW
- 6. Sweep = Auto
- 7. Detector = Peak
- 8. Trace = Max hold
- 9. The trace was allowed to stabilize
- 10. Measure and record the results in the test report.

Test Notes

DTS: The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X= 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.4 Power Spectral Density

Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

ANSI C63.10:2020 Section 11.10.2(PKPSD)

Test Settings

- 1. Set to the maximum power setting and enable the EUT transmit continuously
- 2. The transmitter output is connected to a spectrum analyzer
- 3. $3kHz \le RBW \le 100 kHz$ (If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.)
- 4. VBW ≥ 3 times RBW
- 5. Span = 1.5 times the DTS bandwidth
- 6. Sweep = Auto
- 7. Detector = Peak
- 8. Trace = Max hold
- The trace was allowed to stabilize
- 10. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.5 Band Edge for Conducted Emissions

Limits

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 15.247(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Procedure

ANSI C63.10:2020 Section 11.11.3

Test Settings

- 1. Set to the maximum power setting and enable the EUT transmit continuously
- 2. The transmitter output is connected to a spectrum analyzer
- 3. RBW = 100kHz
- 4. VBW = 300kHz
- 5. Point ≥ 2 x span/RBW
- 6. Sweep = Auto
- 7. Detector = Peak
- 8. Trace = Max hold
- 9. The trace was allowed to stabilize
- 10. Measure and record the results in the test report

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.6 Spurious RF Conducted Emissions

Limits

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 15.247(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Procedure

ANSI C63.10:2020 Section 11.11.3

Test Settings

- 1. Set to the maximum power setting and enable the EUT transmit continuously.
- 2. Activate frequency hopping function if necessary.
- 3. The transmitter output is connected to a spectrum analyzer
- 4. The spectrum from 30MHz 26.5GHz
- 5. RBW = 100kHz
- 6. VBW = 300kHz
- 7. Sweep = Auto
- 8. Detector = Peak
- 9. Trace = Max hold
- 10. The trace was allowed to stabilize
- 11. Measure and record the results in the test report

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.7 Radiated Spurious Emissions and Band Edge

Limits

Spurious emissions are permitted in an of the frequency bands:

MHz	MHz	MHz	MHz	GHz	GHz
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660 - 1710	4.5 - 5.15	14.47 - 14.5
0.495 - 0.505	12.51975 - 1252025	156.52475 - 156.52525	1718.8 - 1722.2	5.35 - 5.46	15.35 - 16.2
2.1735 - 2.1905	12.5767 - 12.57725	156.7 - 156.9	2200 - 2300	7.25 - 7.75	17.7 - 21.4
4.125 - 128	13.36 - 13.41	162.0125 - 167.17	2310 - 2390	8.025 - 8.5	22.01 - 23.12
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500	9.0 - 9.2	23.6 - 24.0
4.20725 - 4.20775	16.69475 - 16.69525	240 - 285	2655 - 2900	9.3 - 9.5	31.2 - 31.8
6.215 - 6.218	1680425 - 1680475	322 - 335.4	3260 - 3267	10.6 - 12.7	36.43 - 36.5
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410	3332 - 3339	13.25 - 13.4	
6.31175 - 6.31225	37.5 - 38.25	608 - 614	3345.8 - 3358		
8.291 - 8.294	73 - 74.6	960 - 1240	3600 - 4400		
8.362 - 8.366	74.8 - 75.2	1300 - 1427			
8.37625 - 8.38675	108 - 121.94	1435 - 1626.5			
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5			

Radiated disturbance of an intentional radiator:

Frequency	Field strength (µV/m)	Limit (dBµV/m	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	74.0	Peak	3
Above 1GHZ	300	54.0	Average	S

Test Procedure

ANSI C63.10:2020 Section 6.4 & 6.5 & 6.6

Test Settings

- 1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
- 2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
- 3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- 4. For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. The emission limits shown in the above table are based on measurements employing a CISPR quasipeak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 7. spectrum analyzer setting:

Measurements Below 1000MHz: RBW = 120 kHz; VBW ≥ 300 kHz; Detector = Peak Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = Peak



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Average Measurements Above 1000MHz:

RBW = 1 MHz, VBW ≥ 1/T, with peak detector for average measurements.

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

Level = Reading(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = $Limit(dB\mu V/m) - Level(dB\mu V/m)$

- 9. Repeat above procedures until all frequencies measured was complete.
- 10. Measure and record the results in the test report.

Test Notes

- Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz, 30MHz-1GHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
- The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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5 Test Setup Photos

The detailed test data see: Appendix-C BTWIFI Setup Photos

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Appendix

DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	0.648	2401.684	2402.332	0.5	PASS
BLE_1M	Ant0	2440	0.664	2439.676	2440.340	0.5	PASS
BLE_1M	Ant0	2480	0.668	2479.660	2480.328	0.5	PASS





Occupied Channel Bandwidth Test Result

TestMo	de	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1	М	Ant0	2402	1.0341	2401.4982	2402.5323		
BLE_1	М	Ant0	2440	1.0418	2439.4927	2440.5345		
BLE_1	М	Ant0	2480	1.0347	2479.4939	2480.5286		

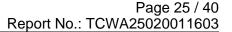




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Maximum conducted output power Test Result

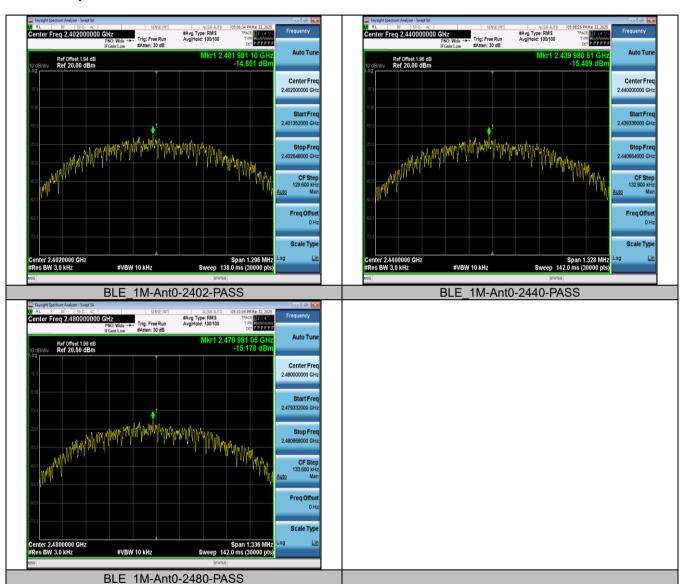
TestMode	Frequency [MHz]	Conducted Average Power[dBm]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	2402	0.119	0.887	≤30	PASS
BLE_1M	2440	-0.671	0.093	≤30	PASS
BLE 1M	2480	-0.412	0.411	≤30	PASS





Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant0	2402	-14.85	≤8.00	PASS
BLE_1M	Ant0	2440	-15.49	≤8.00	PASS
BLE_1M	Ant0	2480	-15.17	≤8.00	PASS

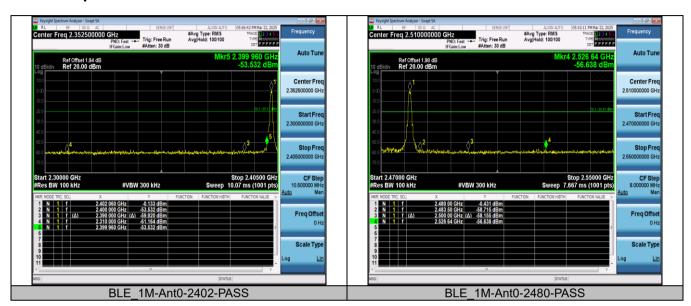






Band edge measurements Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant0	Low	2402	-0.13	-53.53	≤-20.13	PASS
BLE_1M	Ant0	High	2480	-0.43	-56.64	≤-20.43	PASS

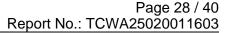




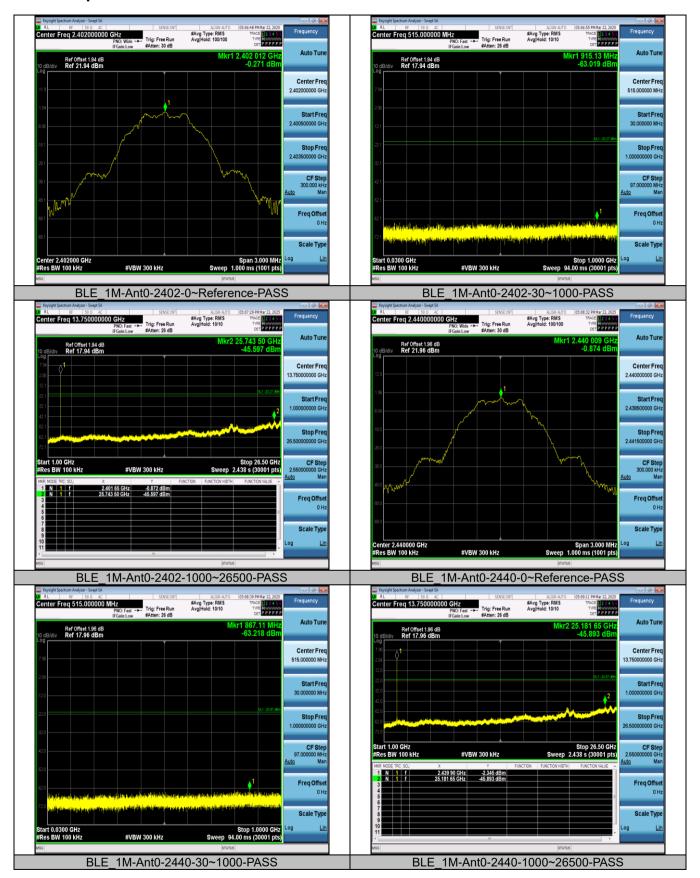
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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant0	2402	0~Reference	-0.27	-0.27		PASS
BLE_1M	Ant0	2402	30~1000	-0.27	-63.02	≤-20.27	PASS
BLE_1M	Ant0	2402	1000~26500	-0.27	-45.6	≤-20.27	PASS
BLE_1M	Ant0	2440	0~Reference	-0.87	-0.87		PASS
BLE_1M	Ant0	2440	30~1000	-0.87	-63.22	≤-20.87	PASS
BLE_1M	Ant0	2440	1000~26500	-0.87	-45.89	≤-20.87	PASS
BLE_1M	Ant0	2480	0~Reference	-1.11	-1.11		PASS
BLE_1M	Ant0	2480	30~1000	-1.11	-62.25	≤-21.11	PASS
BLE 1M	Ant0	2480	1000~26500	-1.11	-45.49	≤-21.11	PASS







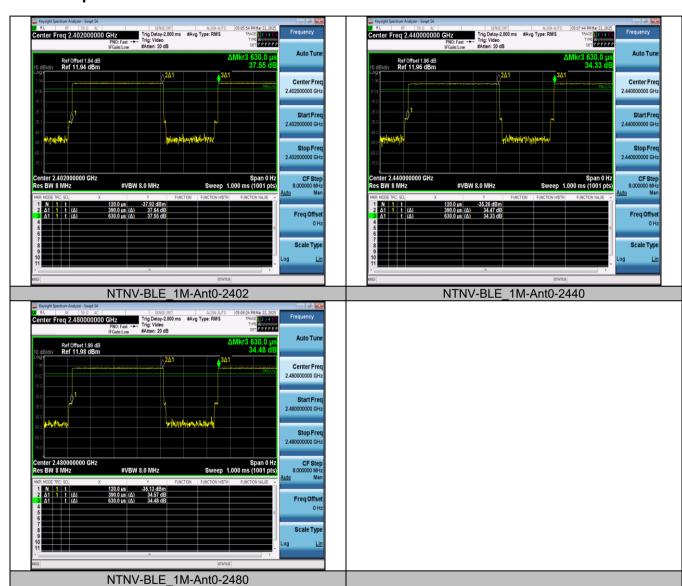


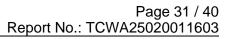




Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant0	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant0	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant0	2480	0.39	0.63	61.90	2.08



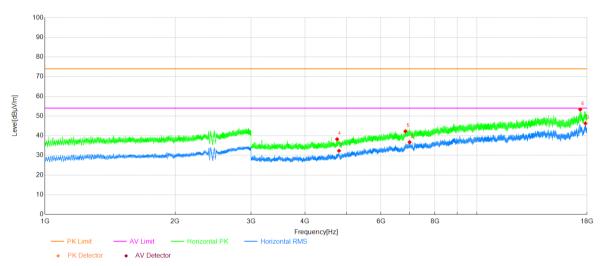




Radiated Spurious Emissions

Test Result

	Project Information							
Mode:	BLE	Band:	-					
Bandwidth	1M	Channel	0					
SN:	E1C24LP16000014	Engineer:	Ou Shuyan					
Remark:								

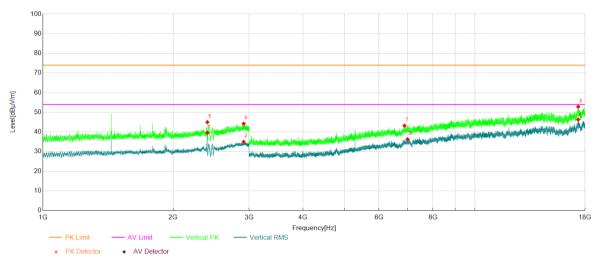


Data L	Data List							
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	4795.00	39.91	-7.57	32.34	54.00	21.66	Horizontal	PASS
2	6987.50	38.69	-1.97	36.72	54.00	17.28	Horizontal	PASS
3	17853.50	33.51	12.76	46.27	54.00	7.73	Horizontal	PASS
4	4746.50	46.28	-8.04	38.24	74.00	35.76	Horizontal	PASS
5	6833.00	44.82	-2.55	42.27	74.00	31.73	Horizontal	PASS
6	17363.50	41.01	12.33	53.34	74.00	20.66	Horizontal	PASS





Project Information							
Mode:	BLE	Band:	-				
Bandwidth	1M	Channel	0				
SN:	E1C24LP16000014	Engineer:	Ou Shuyan				
Remark:							

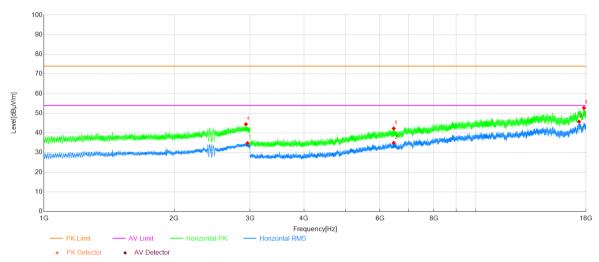


Data L	Data List							
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2402.20	37.40	2.22	39.62	-	-	Vertical	NA
2	2914.60	29.62	5.37	34.99	54.00	19.01	Vertical	PASS
3	6984.00	38.33	-2.03	36.30	54.00	17.70	Vertical	PASS
4	17355.50	33.64	12.65	46.29	54.00	7.71	Vertical	PASS
5	2401.80	42.76	2.22	44.98	-	-	Vertical	NA
6	2914.80	38.85	5.37	44.22	74.00	29.78	Vertical	PASS
7	6873.00	45.41	-2.23	43.18	74.00	30.82	Vertical	PASS
8	17357.50	40.25	12.57	52.82	74.00	21.18	Vertical	PASS





Project Information							
Mode:	BLE	Band:	-				
Bandwidth	1M	Channel	20				
SN:	E1C24LP16000014	Engineer:	Ou Shuyan				
Remark:							

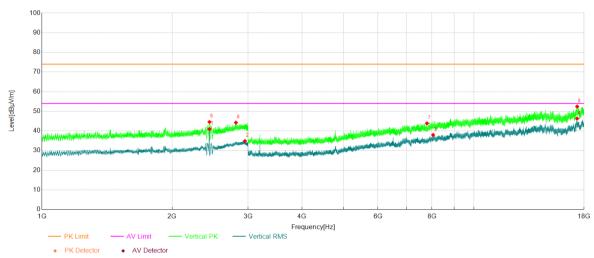


Data L	Data List							
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2959.40	29.36	5.44	34.80	54.00	19.20	Horizontal	PASS
2	6454.50	38.66	-3.71	34.95	54.00	19.05	Horizontal	PASS
3	17342.00	33.25	12.49	45.74	54.00	8.26	Horizontal	PASS
4	2934.60	38.97	5.46	44.43	74.00	29.57	Horizontal	PASS
5	6454.00	46.00	-3.72	42.28	74.00	31.72	Horizontal	PASS
6	17802.00	40.61	12.10	52.71	74.00	21.29	Horizontal	PASS





Project Information							
Mode:	BLE	Band:	-				
Bandwidth	1M	Channel	20				
SN:	E1C24LP16000014	Engineer:	Ou Shuyan				
Remark:							

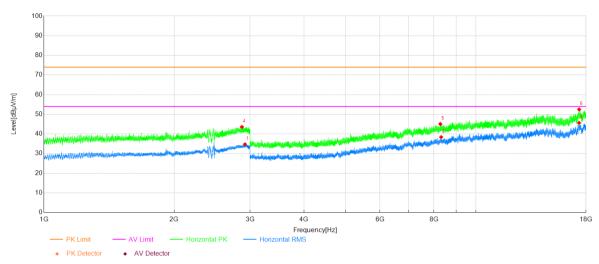


Data L	Data List							
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2442.40	38.66	2.30	40.96	-	-	Vertical	NA
2	2950.60	29.35	5.52	34.87	54.00	19.13	Vertical	PASS
3	8047.50	38.03	-0.06	37.97	54.00	16.03	Vertical	PASS
4	17351.50	33.48	12.80	46.28	54.00	7.72	Vertical	PASS
5	2442.00	42.26	2.30	44.56	-	-	Vertical	NA
6	2812.20	39.41	4.83	44.24	74.00	29.76	Vertical	PASS
7	7789.50	44.79	-0.90	43.89	74.00	30.11	Vertical	PASS
8	17355.00	39.75	12.67	52.42	74.00	21.58	Vertical	PASS





Project Information							
Mode:	BLE	Band:	-				
Bandwidth	1M	Channel	39				
SN:	E1C24LP16000014	Engineer:	Ou Shuyan				
Remark:							

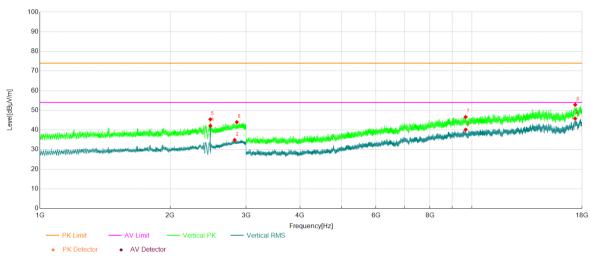


Data L	Data List							
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2919.60	29.34	5.39	34.73	54.00	19.27	Horizontal	PASS
2	8312.50	37.62	0.76	38.38	54.00	15.62	Horizontal	PASS
3	17349.00	32.79	12.82	45.61	54.00	8.39	Horizontal	PASS
4	2872.80	38.40	5.16	43.56	74.00	30.44	Horizontal	PASS
5	8276.50	44.59	0.46	45.05	74.00	28.95	Horizontal	PASS
6	17352.50	39.72	12.76	52.48	74.00	21.52	Horizontal	PASS

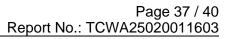




Project Information							
Mode:	BLE	Band:	-				
Bandwidth	1M	Channel	39				
SN:	E1C24LP16000014	Engineer:	Ou Shuyan				
Remark:							



Data L	Data List							
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	2480.20	39.75	2.37	42.12	-	-	Vertical	NA
2	2823.60	30.01	4.89	34.90	54.00	19.10	Vertical	PASS
3	9678.00	36.98	3.19	40.17	54.00	13.83	Vertical	PASS
4	17351.50	32.99	12.80	45.79	54.00	8.21	Vertical	PASS
5	2479.80	43.05	2.37	45.42	-	-	Vertical	NA
6	2856.20	38.92	5.07	43.99	74.00	30.01	Vertical	PASS
7	9675.50	43.43	3.15	46.58	74.00	27.42	Vertical	PASS
8	17362.50	40.45	12.37	52.82	74.00	21.18	Vertical	PASS

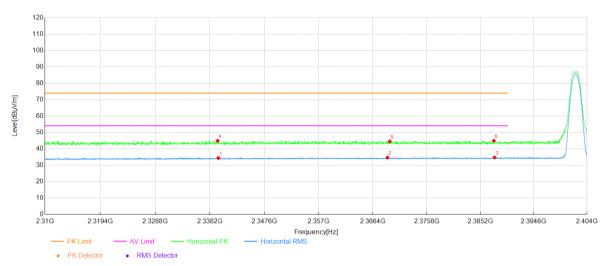




Radiated Band Edge

Test Result

	Project Information								
Mode:	BLE	Band:	-						
Bandwidth	1M	Channel	0						
SN:	E1C24LP16000014	Engineer:	Ou Shuyan						
Remark:									

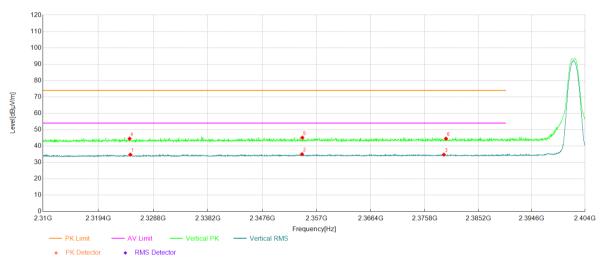


Data L	Data List									
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict		
1	2339.65	33.02	1.36	34.38	54.00	19.62	Horizontal	PASS		
2	2368.96	33.25	1.44	34.69	54.00	19.31	Horizontal	PASS		
3	2387.70	33.31	1.43	34.74	54.00	19.26	Horizontal	PASS		
4	2339.53	43.56	1.36	44.92	74.00	29.08	Horizontal	PASS		
5	2369.37	43.09	1.44	44.53	74.00	29.47	Horizontal	PASS		
6	2387.58	43.51	1.43	44.94	74.00	29.06	Horizontal	PASS		





Project Information								
Mode:	Mode: BLE Band: -							
Bandwidth	1M	Channel	0					
SN:	E1C24LP16000014	Engineer:	Ou Shuyan					
Remark:								

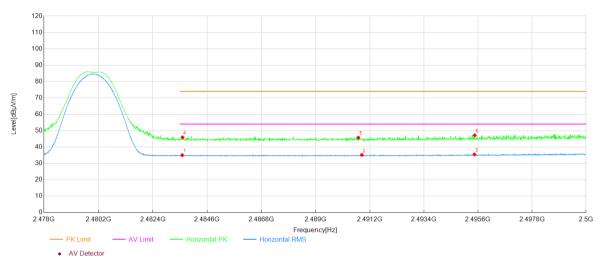


Data L	Data List									
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict		
1	2324.89	33.53	1.23	34.76	54.00	19.24	Vertical	PASS		
2	2354.45	33.58	1.45	35.03	54.00	18.97	Vertical	PASS		
3	2379.14	33.32	1.43	34.75	54.00	19.25	Vertical	PASS		
4	2324.76	43.28	1.23	44.51	74.00	29.49	Vertical	PASS		
5	2354.51	43.70	1.45	45.15	74.00	28.85	Vertical	PASS		
6	2379.52	43.11	1.43	44.54	74.00	29.46	Vertical	PASS		





Project Information							
Mode: BLE Band: -							
Bandwidth	1M	Channel	78				
SN:	E1C24LP16000014E1C24LP16000014	Engineer:	Ou Shuyan				
Remark:							

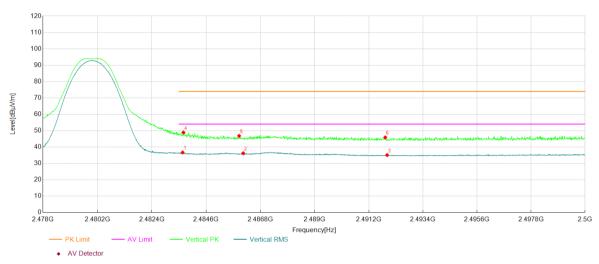


Data L	Data List									
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict		
1	2483.59	33.18	1.85	35.03	54.00	18.97	Horizontal	PASS		
2	2490.88	33.23	1.93	35.16	54.00	18.84	Horizontal	PASS		
3	2495.45	33.46	1.98	35.44	54.00	18.56	Horizontal	PASS		
4	2483.60	44.05	1.86	45.91	74.00	28.09	Horizontal	PASS		
5	2490.73	43.80	1.93	45.73	74.00	28.27	Horizontal	PASS		
6	2495.47	45.19	1.98	47.17	74.00	26.83	Horizontal	PASS		





Project Information								
Mode:	Mode: BLE Band: -							
Bandwidth	1M	Channel	78					
SN:	E1C24LP16000014	Engineer:	Ou Shuyan					
Remark:								



Data L	Data List									
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict		
1	2483.65	34.82	1.86	36.68	54.00	17.32	Vertical	PASS		
2	2486.10	34.34	1.88	36.22	54.00	17.78	Vertical	PASS		
3	2491.94	33.14	1.95	35.09	54.00	18.91	Vertical	PASS		
4	2483.68	47.05	1.86	48.91	74.00	25.09	Vertical	PASS		
5	2485.93	44.95	1.88	46.83	74.00	27.17	Vertical	PASS		
6	2491.87	43.95	1.95	45.90	74.00	28.10	Vertical	PASS		

~The End~