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### **TEST REPORT**

Application No.:	XEWA2309000067RG
Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description:	Wi-Fi & Bluetooth Module
Model No.:	FC65E
Trade Mark:	Quectel
FCC ID:	XMR2023FC65E
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2023/09/04
Date of Test:	2023/09/26 to 2023/10/10
Date of Issue:	2023/10/26
Test Result :	PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Pore Tom

Peter Tan Regulatory Technical Manager



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#### 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/26		Original

Prepared By	leah chen
	(Leah Chen) / Test Engineer
Checked By	Andy Yao
	(Andy Yao) /Reviewer



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### 2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty cycle		ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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#### 3 General Information

#### 3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.	
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.	
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang, Jacky Xue

#### 3.3 Test Facility

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

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

#### • FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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•				
EUT Description:	Wi-Fi & Bluetooth Module			
Model No.:	FC65E			
Trade Mark:	Quectel			
Hardware Version:	R1.0			
Software Version:	1			
Power Supply:	DC 2V			
CNI:	RF Conducted	E1N23B111000093		
SIN.	RSE & AC power line	E1N23B108000031		
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 V5.2	Bluetooth V5.2		
Modulation Type:	GFSK			
Number of Channel:	40			
Potoo Tupo*:	Provided by client			
Rales Type .	1M PHY 2M PHY			
Antenna Type:	🛛 External, 🗌 Integrated			
	0.73dBi(Ant0)			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.2dB			
As above information is provided suitability, reliability or/and integrit	and confirmed by the applic ty of the information.	ant. SGS is not liable to the accuracy,		

#### 3.4 General Description of EUT



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Operation Frequency of each channel							
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:

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



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#### 3.5 Test Environment

Environment Parameter	96~101 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(℃)	Voltage(V)	
NTNV	22~25	2	
Remark:			
NV: Normal Voltage			
NT: Normal Temperature			

#### 3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	QUECTEL	5G-EVB Q1-A7138		
Adapter	oter Shenzhen Keyu Power Supply Techology Co.,Ltd KA1801A-05030			
Remark: all above the information of table are provided by client.				



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#### 4 Test results and Measurement Data

#### 4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)					
15.203 requirement:						
An intentional radiator shall b	be designed to ensure that no antenna other than that furnished by the					
responsible party shall be us	ed with the device. The use of a permanently attached antenna or of an					
antenna that uses a unique o	coupling to the intentional radiator, the manufacturer may design the unit					
so that a broken antenna car	n be replaced by the user, but the use of a standard antenna jack or					
electrical connector is prohib	ited.					
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 gain	ns that do not exceed 6 dBi. Except as shown in paragraph (c) of this					
section, if transmitting antenr	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 is External Antenna and no consideration of replacement. The best case gain of the antenna is 0.73dBi(Ant0). *						

\*Note:

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

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#### 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:		Limit (d	BuV)	
	Frequency range(MHZ)	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 log	arithm of the frequency.		
Test Procedure:	<ol> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω 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.</li> <li>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.</li> <li>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. 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.</li> </ol>			



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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission



2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[ $dB\mu V$ ] – Value[ $dB\mu V$ ]



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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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#### 4.3 Duty Cycle





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#### 4.4 Conducted Output Power





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#### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3
Test Setup:	PC PC Communication Correction Fear Fear Control Unit Control Unit
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: A	ppendix



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#### 47 CFR Part 15C Section 15.247 (e) Test Requirement: Test Method: ANSI C63.10-2020 Section 11.10.2 Test Setup: SGS Test system PC 0 on 9 Unit 0 0 in a E.U.T analog Signal Gene DC Po l Ground Reference Plane Test Instruments: Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: ≤8.00dBm/3kHz Test Results: Pass The detailed test data see: Appendix

#### 4.6 Power Spectral Density



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#### 4.7 Band-edge for RF Conducted Emissions

Test Method:       ANSI C63.10-2020 Section 11.11         Test Setup:       Image: Comparison of the system o	Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Setup: <pre></pre>	Test Method:	ANSI C63.10-2020 Section 11.11
Instruments Used:Refer to section 6 for detailsTest Mode:Transmitting with GFSK modulation.Limit:In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.Test Results:Pass	Test Setup:	PC PC Communication Fest system Spectrum Analyzer PC Communication Fest open Spectrum Analyzer Fest open Fest o
Test Mode:Transmitting with GFSK modulation.Limit:In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.Test Results:Pass	Instruments Used:	Refer to section 6 for details
Limit:In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.Test Results:Pass	Test Mode:	Transmitting with GFSK modulation.
Test Results: Pass	Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
The detailed test data as a Ammondia	Test Results:	Pass
i në detalled test data see: <b>Appendix</b>	The detailed test data see: A	ppendix



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#### 47 CFR Part 15C Section 15.247 (d) Test Requirement: Test Method: ANSI C63.10-2020 Section 11.11 Test Setup: SGS Test system ector Signal Genera 0 PC rol Unit 0 0 0 m E.U.T analog Signal Ger DC Powe Ground Reference Plane Instruments Used: Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. In any 100 kHz bandwidth outside the frequency band in which the spread Limit: spectrum 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. Test Results: Pass The detailed test data see: Appendix

#### 4.8 **RF Conducted Spurious Emissions**



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#### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2020 Section 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency Field strength Limit Measurement (microvolt/meter) (dBuV/m) Remark 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 54.0 Average 3						
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						
Test Setup:							
0.6m Loup Antenna 3m or 10m EUT Turntable Ground Reference Plane							





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	Detector = Peak & Average & Quasi-peak			
	• Trace mode = max hold			
	Measurements Below 1000MHz			
	• $BBW = 120 \text{ kHz}$			
	• VBW = 300 kHz			
	Detector = Oussi-neak			
	• Trace mode = max hold			
	Peak Measurements Above 1000 MHz			
	• RBW = 1 MHz			
	• VBW $\ge 3 \text{ MHz}$			
	• Detector = Peak			
	• Sweep time = auto			
	Trace mode = max hold			
	Average Measurements Above 1000MHz			
	• RBW = 1 MHz			
	• VBW = 10 Hz, when duty cycle is no less than 98 percent.			
	• VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum			
	transmission duration over which the transmitter is on and is transmitting at its			
	maximum power control level for the tested mode of operation.			
Exploratory Test	Transmitting with GFSK modulation.			
Mode:	DC supply + Transmitting mode.			
Final Test Mode:	Transmitting with GFSK modulation.			
	Pretest the EUT at DC supply + Transmitting mode.			
	For below 1GHz part, through pre-scan all channels, but only the worst case is			
	recorded in the report.			
Instruments Used:	Refer to section 6 for details			
Test Results:	est Results: Pass			
The detailed test data	see: Appendix			



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#### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205			
Test Method:	ANSI C63.10-2020 Section 11.12			
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)	
Limit:	Frequency	Limit (dBuV/m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak	
	88MHz-216MHz	43.5	Quasi-peak	
	216MHz-960MHz	46.0	Quasi-peak	
	960MHz-1GHz	54.0	Quasi-peak	
		54.0	Average Value	
	Above IGH2	74.0	Peak Value	

Test Setup:



Test Procedure:	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 camber. 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 semi-anechoic camber. 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 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



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	Bandwidth with Maximum Hold Mode.
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel , the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	<ul> <li>Detector = Quasi-peak</li> </ul>
	<ul> <li>Trace mode = max hold</li> </ul>
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	<ul> <li>Trace mode = max hold</li> </ul>
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	<ul> <li>VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> </ul>
	<ul> <li>VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum</li> </ul>
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation.
	DC supply + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at DC supply + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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#### 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item Measurement Uncertainty				
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup> GHz			
2	Duty cycle	± 0.37%			
3	Occupied Bandwidth	± 0.2%			
4	RF conducted power	± 0.21dB			
5	RF power density	± 2.84dB			
6	Conducted Spurious emissions	± 0.75dB			
7	Conduction Emission± 3.0dB (150kHz to 30MHz)				
		± 4.6dB (9kHz to 30MHz)			
		± 4.9dB (30MHz to 1GHz)			
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)			
		± 4.7dB (6GHz to 18GHz)			
		± 5.26dB (Above 18GHz)			
Remark: The U <sub>lab</sub> (lab Und – compliance is o – non-complianc	Remark: The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>cispr/ETSI</sub> (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.				



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### 6 Equipment List

RF Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15	
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15	
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR	
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR	
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/08/30	2024/08/29	
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15	
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2023/09/04	2024/09/03	

CE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29		



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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15		
Spectrum Analyzer	ROHDE& SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14		
Test receiver	ROHDE& SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27		
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR		
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR		
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR		
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25		



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### 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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#### DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	0.656	2401.696	2402.352	0.5	PASS
		2440	0.696	2439.676	2440.372	0.5	PASS
		2480	0.720	2479.660	2480.380	0.5	PASS
BLE_2M	Ant0	2402	1.084	2401.508	2402.592	0.5	PASS
		2440	1.100	2439.476	2440.576	0.5	PASS
		2480	1.216	2479.376	2480.592	0.5	PASS



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#### **Test Graphs**





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#### 99% Occupied Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict	
BLE_1M	Ant0	2402	1.0270	2401.5202	2402.5472		
		2440	1.0220	2439.5192	2440.5412	Бал	
		2480	1.0200	2479.5209	2480.5409	For	
BLE_2M	Ant0	2402	2.0073	2401.0459	2403.0532	Purposo	
		2440	2.0288	2439.0269	2441.0557	Fulpose	
		2480	2.0182	2479.0335	2481.0517		



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## Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M		2402	6.90	≤30	PASS
	Ant0	2440	7.44	≤30	PASS
		2480	7.93	≤30	PASS
BLE_2M	Ant0	2402	7.24	≤30	PASS
		2440	7.75	≤30	PASS
		2480	8.24	≤30	PASS



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### Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M		2402	-7.45	≤8.00	PASS
	Ant0	2440	-6.27	≤8.00	PASS
		2480	-4.95	≤8.00	PASS
BLE_2M	Ant0	2402	-10.48	≤8.00	PASS
		2440	-9.17	≤8.00	PASS
		2480	-7.84	≤8.00	PASS



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### **Test Graphs**





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## Band edge measurements Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M An	A ntO	Low	2402	6.55	-49.55	≤-13.45	PASS
	Anto	High	2480	9.15	-48.96	≤-10.85	PASS
BLE_2M	Ant0	Low	2402	6.54	-38.58	≤-13.47	PASS
	Anto	High	2480	9.47	-50.08	≤-10.53	PASS



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### **Test Graphs**





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#### Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
		2402	Reference	6.33	6.33		PASS
			30~1000	6.33	-59.31	≤-13.67	PASS
			1000~26500	6.33	-45.3	≤-13.67	PASS
			Reference	7.42	7.42		PASS
BLE_1M	Ant0	2440	30~1000	7.42	-59.18	≤-12.58	PASS
			1000~26500	7.42	-45.43	≤-12.58	PASS
		2480	Reference	9.12	9.12		PASS
			30~1000	9.12	-59.63	≤-10.88	PASS
			1000~26500	9.12	-44.93	≤-10.88	PASS
			Reference	5.33	5.33		PASS
		2402	30~1000	5.33	-59.57	≤-14.67	PASS
			1000~26500	5.33	-45.4	≤-14.67	PASS
			Reference	5.30	5.30		PASS
BLE_2M	Ant0	2440	30~1000	5.30	-59.92	≤-14.7	PASS
			1000~26500	5.30	-45.18	≤-14.7	PASS
		2480	Reference	5.95	5.95		PASS
			30~1000	5.95	-59.18	≤-14.05	PASS
			1000~26500	5.95	-45.35	≤-14.05	PASS



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### **Test Graphs**





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### Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M		2402	0.39	0.63	61.90	2.08
	Ant0	2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M		2402	0.21	0.63	33.33	4.77
	Ant0	2440	0.21	0.63	33.33	4.77
	-	2480	0.21	0.63	33.33	4.77

Note:

Radiated Emission Average VBW = 1 / T

	U				
TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.39	0.63	61.90	2.56410	2.6KHz
BLE_2M	0.21	0.63	33.33	4.76190	5.1KHz



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#### **Test Graphs**





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## **Radiated Spurious Emissions**

## Radiated emission below 1GHz

### Worst case Mode: BLE 2M\_Channel 39



Data List												
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity				
1	64.9375	12.10	-27.66	38.84	23.28	40.00	16.72	Horizontal				
2	110.065	11.55	-27.12	33.9	18.33	43.50	25.17	Horizontal				
3	130.9305	7.92	-26.67	41.42	22.67	43.50	20.83	Horizontal				
4	146.4582	7.45	-26.64	42.61	23.42	43.50	20.08	Horizontal				
5	174.6023	9.18	-26.49	37.41	20.10	43.50	23.40	Horizontal				
6	847.6338	21.29	-24.01	29.01	26.29	46.00	19.71	Horizontal				



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Data Lis	st							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	30.9705	11.01	-28.02	46.32	29.31	40.00	10.69	Vertical
2	35.8229	11.73	-27.99	45.18	28.92	40.00	11.08	Vertical
3	50.8654	13.84	-27.72	40.52	26.64	40.00	13.36	Vertical
4	60.085	12.39	-27.96	41.05	25.48	40.00	14.52	Vertical
5	110.065	11.55	-27.12	33.22	17.65	43.50	25.85	Vertical
6	769.995	20.50	-23.89	29.23	25.84	46.00	20.16	Vertical

#### Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

2) All channels have been tested, but only the worst case data displayed in this report.



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## Transmitter emission Above 1GHz BLE 1M\_Channel 0



Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4804	52.31	30.78	-42.95	40.14	74.00	33.86	Horizontal			
2	7206	48.00	36.56	-38.71	45.85	74.00	28.15	Horizontal			
3	9608	47.21	37.85	-35.70	49.36	74.00	24.64	Horizontal			



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4804	52.33	30.78	-42.95	40.16	74.00	33.84	Vertical		
2	7206	48.80	36.56	-38.71	46.65	74.00	27.35	Vertical		
3	9608	48.01	37.85	-35.70	50.16	74.00	23.84	Vertical		



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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	53.16	30.78	-42.89	41.05	74.00	32.95	Horizontal			
2	7320	49.98	36.44	-38.76	47.66	74.00	26.34	Horizontal			
3	9760	46.78	38.34	-35.97	49.15	74.00	24.85	Horizontal			



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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	52.91	30.78	-42.89	40.80	74.00	33.20	Vertical			
2	7320	49.34	36.44	-38.76	47.02	74.00	26.98	Vertical			
3	9760	47.02	38.34	-35.97	49.39	74.00	24.61	Vertical			



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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	53.20	31.04	-42.78	41.46	74.00	32.54	Horizontal			
2	7440	48.94	36.78	-38.28	47.44	74.00	26.56	Horizontal			
3	9920	46.97	38.62	-35.49	50.10	74.00	23.90	Horizontal			



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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	53.31	31.04	-42.78	41.57	74.00	32.43	Vertical			
2	7440	50.04	36.78	-38.28	48.54	74.00	25.46	Vertical			
3	9920	47.74	38.62	-35.49	50.87	74.00	23.13	Vertical			



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## BLE 2M\_Channel 0

Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4804	51.95	30.78	-42.95	39.78	74.00	34.22	Horizontal				
2	7206	47.59	36.56	-38.71	45.44	74.00	28.56	Horizontal				
3	9608	47.34	37.85	-35.70	49.49	74.00	24.51	Horizontal				



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### BLE 2M\_Channel 0

Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4804	51.53	30.78	-42.95	39.36	74.00	34.64	Vertical				
2	7206	49.02	36.56	-38.71	46.87	74.00	27.13	Vertical				
3	9608	47.65	37.85	-35.70	49.80	74.00	24.20	Vertical				



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## BLE 2M\_Channel 19

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	52.26	30.78	-42.89	40.15	74.00	33.85	Horizontal			
2	7320	49.07	36.44	-38.76	46.75	74.00	27.25	Horizontal			
3	9760	46.20	38.34	-35.97	48.57	74.00	25.43	Horizontal			



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## BLE 2M\_Channel 19

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	51.85	30.78	-42.89	39.74	74.00	34.26	Vertical			
2	7320	49.85	36.44	-38.76	47.53	74.00	26.47	Vertical			
3	9760	47.72	38.34	-35.97	50.09	74.00	23.91	Vertical			



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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	53.05	31.04	-42.78	41.31	74.00	32.69	Horizontal			
2	7440	49.15	36.78	-38.28	47.65	74.00	26.35	Horizontal			
3	9920	46.92	38.62	-35.49	50.05	74.00	23.95	Horizontal			



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### BLE 2M\_Channel 39

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4960	51.26	31.04	-42.78	39.52	74.00	34.48	Vertical		
2	7440	47.94	36.78	-38.28	46.44	74.00	27.56	Vertical		
3	9920	48.19	38.62	-35.49	51.32	74.00	22.68	Vertical		

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. 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)

- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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### **Restricted bands around fundamental frequency** BLE 1M\_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2379.1096	38.70	27.48	-18.38	47.80	74.00	26.20	Horizontal			
2	2387.2136	39.10	27.45	-18.21	48.34	74.00	25.66	Horizontal			



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2382.7114	26.84	27.47	-18.31	36.00	54.00	18.00	Horizontal		
2	2389.3897	26.75	27.44	-18.16	36.03	54.00	17.97	Horizontal		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2382.2611	39.27	27.47	-18.32	48.42	74.00	25.58	Vertical		
2	2388.3392	38.69	27.45	-18.19	47.95	74.00	26.05	Vertical		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2364.8524	26.60	27.54	-18.36	35.78	54.00	18.22	Vertical		
2	2387.0635	26.67	27.45	-18.21	35.91	54.00	18.09	Vertical		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2484.042	40.21	27.74	-18.18	49.77	74.00	24.23	Horizontal		
2	2488.094	39.21	27.75	-18.17	48.79	74.00	25.21	Horizontal		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.6418	27.34	27.73	-18.19	36.88	54.00	17.12	Horizontal		
2	2490.8454	27.33	27.76	-18.17	36.92	54.00	17.08	Horizontal		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.942	38.68	27.74	-18.18	48.24	74.00	25.76	Vertical		
2	2495.3977	39.45	27.78	-18.22	49.01	74.00	24.99	Vertical		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2484.2421	26.86	27.74	-18.18	36.42	54.00	17.58	Vertical		
2	2489.5948	26.67	27.76	-18.16	36.27	54.00	17.73	Vertical		



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#### BLE 2M\_Channel 0

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2373.3317	39.45	27.51	-18.45	48.51	74.00	25.49	Horizontal		
2	2384.8124	38.90	27.46	-18.26	48.10	74.00	25.90	Horizontal		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2378.8844	27.48	27.48	-18.38	36.58	54.00	17.42	Horizontal		
2	2388.4142	27.33	27.45	-18.18	36.60	54.00	17.40	Horizontal		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2378.5093	38.74	27.49	-18.39	47.84	74.00	26.16	Vertical		
2	2388.1891	38.66	27.45	-18.19	47.92	74.00	26.08	Vertical		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2378.2091	27.56	27.49	-18.39	36.66	54.00	17.34	Vertical		
2	2388.6393	27.35	27.45	-18.18	36.62	54.00	17.38	Vertical		



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.5918	42.97	27.73	-18.19	52.51	74.00	21.49	Horizontal		
2	2489.4947	38.92	27.76	-18.16	48.52	74.00	25.48	Horizontal		



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#### BLE 2M\_Channel 39

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.5918	28.38	27.73	-18.19	37.92	54.00	16.08	Horizontal		
2	2487.6438	27.82	27.75	-18.17	37.40	54.00	16.60	Horizontal		



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#### BLE 2M\_Channel 39

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2485.0925	38.42	27.74	-18.18	47.98	74.00	26.02	Vertical		
2	2487.4437	39.29	27.75	-18.17	48.87	74.00	25.13	Vertical		



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#### BLE 2M\_Channel 39

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.6918	27.42	27.73	-18.19	36.96	54.00	17.04	Vertical		
2	2489.2946	27.36	27.76	-18.16	36.96	54.00	17.04	Vertical		

#### Remark:

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

Level = Reading( $dB\mu V$ ) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

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

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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