

TEST REPORT						
FCC Rules Part 15.247						
Report Reference No	MTEB25010103-R1 2BNCR-XPLORER File administrators Alisa Luo	Alisa Luo				
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Approved by (position+printed name+signature):	Manager Yvette Zhou	petter				
Date of issue	Jan.14,2025					
Representative Laboratory Name. :	Shenzhen Most Technology Ser	vice Co., Ltd.				
Address	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.					
Applicant's name	Shenzhen Mihome Up Technology Co., Ltd.					
Address	Room1 802A, Jingji Building 2, Hu Longcheng Street,Longgang Distr					
Test specification/ Standard:	FCC Rules Part 15.247					
TRF Originator	Shenzhen Most Technology Servi	ce Co., Ltd.				
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Test item description:	Smart Watch					
Trade Mark	IMIKI					
Model/Type reference:	IMIKI Xplorer Pro					
Listed Models	N/A					
Modulation Type:	GFSK					
Operation Frequency:	From 2402MHz to 2480MHz					
Hardware Version	AT355V02					
Software Version	AT355AHV00174					
Rating	DC 3.8V by Battery DC 5V by USB Port					
Result	PASS					

TEST REPORT

Equipment under Test	:	Smart Watch
Model /Type	:	IMIKI Xplorer Pro
Listed Models	:	N/A
Remark		N/A
Applicant	:	Shenzhen Mihome Up Technology Co., Ltd.
Address	:	Room1 802A, Jingji Building 2, Huanggekeng Community, Longcheng Street,Longgang District, Shenzhen, 518000, China
Manufacturer	:	Shenzhen Mihome Up Technology Co., Ltd.
Address	:	Room1 802A, Jingji Building 2, Huanggekeng Community, Longcheng Street,Longgang District, Shenzhen, 518000, China

Test Result:	PASS
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2025.01.14	Initial Issue	Alisa Luo

2. TEST STANDARDS

The tests were performed according to following standards:

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

3. <u>SUMMARY</u>

3.1. General Remarks

Date of receipt of test sample	:	2025.01.10
Testing commenced on	:	2025.01.13
Testing concluded on	:	2025.01.14

3.2. Product Description

Product Name:	Smart Watch
Model/Type reference:	IMIKI Xplorer Pro
Power Supply:	DC 3.8V by Battery DC 5V by USB Port
Testing sample ID:	MTYP08081
Bluetooth :	
Supported Type:	BLE
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	Metal antenna
Antenna gain:	-2.89dBi

3.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
			Other (specified in blank bel	ow)

DC 3.8V by Battery DC 5V by USB Port

3.4. Short description of the Equipment under Test (EUT)

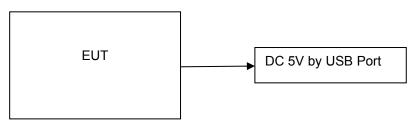
This is a Smart Watch For more details, refer to the user's manual of the EUT.

3.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT. Channel 00/19/39 was selected to test.

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

3.6. Block Diagram of Test Setup



3.7. Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8. Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	Adapter	MDY-08-EH	1	1
AE 2		1	1	1

3.9. Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1		Metal antenna	2.4–2.5 GHz		-2.89dBi
Antenna 2	/	/	/	/	/

*: declared by the applicant.

3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

 $\ensuremath{\bigcirc}$ - supplied by the manufacturer

• - Supplied by the lab

● ADAPTER	M/N:	MDY-08-EH
	Manufacturer:	Xiaomi Communications Co.,Ltd

3.11. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Test Facility

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2. Environmental conditions

Radiated Emission:

Temperature:	21.6 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	21.6 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

4.3. Test Description

FCC and IC Requirements		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247 (a)(2)	6dB Bandwidth & 99% Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Conducted Output Power	PASS
FCC Part 15.247 (e)	Power Spectral Density	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS

Remark:

1. The measurement uncertainty is not included in the test result.

2. NA = Not Applicable; NP = Not Performed

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)
6dB Bandwidth & 99% Bandwidth	/	5%	(1)
Maximum Conducted Output Power	/	0.80dB	(1)
Spurious RF Conducted Emission	1	1.6dB	(1)

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

4.5. Equipments Used during the Test

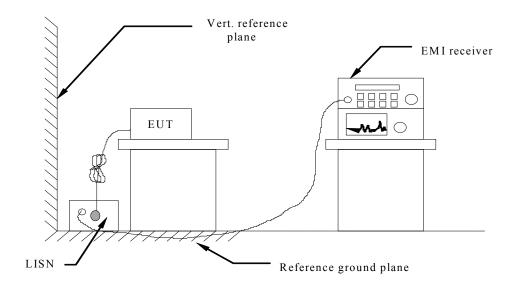
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2024/03/15
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2024/03/15
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2024/03/15
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2024/03/15
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2024/03/15
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2024/08/15
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2024/03/15
8	Loop antenna	Beijing Daze	ZN30900B	/	1	2024/03/15
9	Horn antenna	R&S	OBH100400	26999002	1	2024/03/15
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE- 3.7.21	2024/03/15
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2024/03/15
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2024/03/15
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	1	2024/03/15
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2024/03/15
15	Pre-amplifier	Agilent	83051A	MT-E392	1	2024/03/15
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	1	2024/03/15
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	1	2024/03/15
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	1	2024/03/15
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2024/03/15
20	Power meter	R&S	NRVS	100444	/	2024/03/15

Note: 1. The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.

2 Support equipment, if needed, was placed as per ANSI C63.10-2013

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013

4 The EUT received DC 5V power from adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

5 All support equipments received AC power from a second LISN, if any.

6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

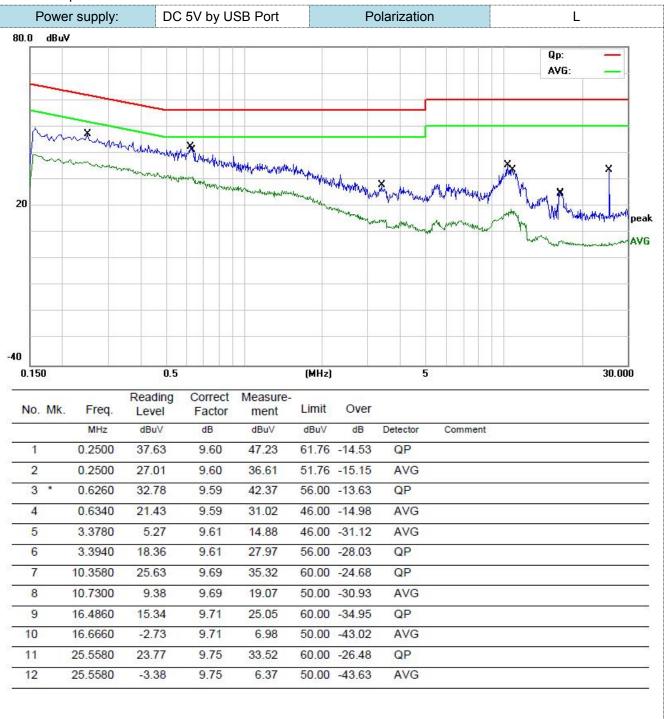
For unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)			
	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		
* Decreases with the logarithm of the frequency.				

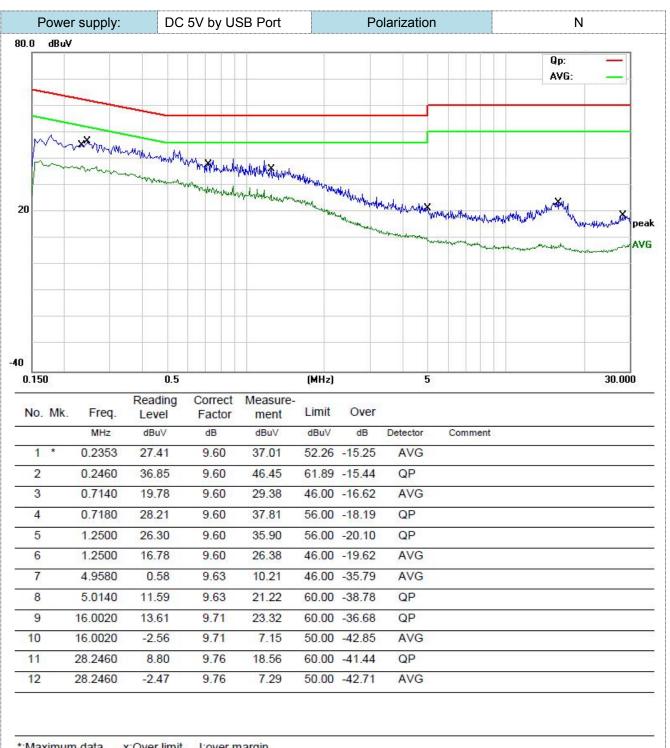
TEST RESULTS

Remark:

1. GFSK modes were test at Low, Middle, and High channel; only the worst result of GFSK Middle Channel was reported as below:



*:Maximum data x:Over limit !:over margin

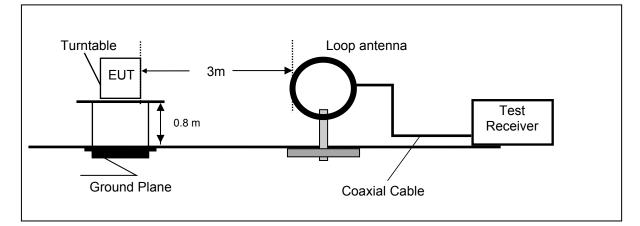


*:Maximum data x:Over limit I:over margin

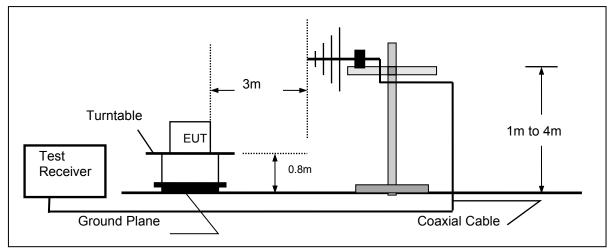
5.2. Radiated Emission

TEST CONFIGURATION

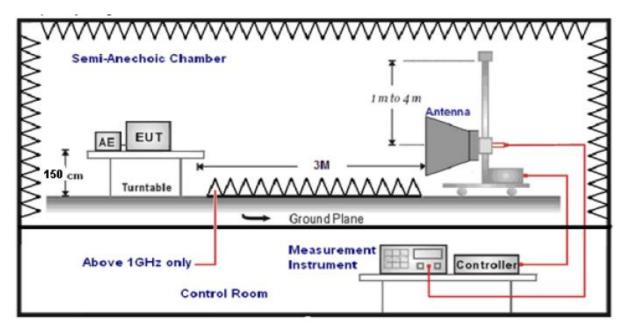
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

- The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Frequency range Test Receiver/Spectrum Setting	
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz,	
	Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz,	Peak
	Sweep time=Auto	

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

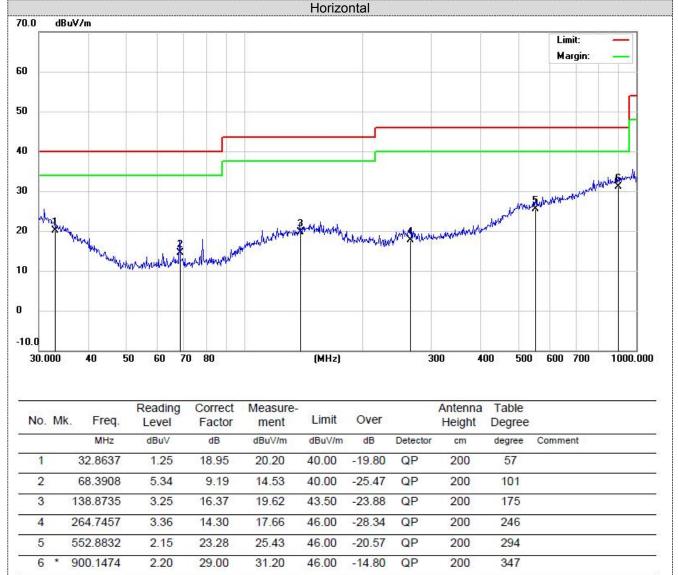
Frequency (MHz)	Distance	Radiated (dBµV/m)	Radiated (µV/m)
	(Meters)		
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

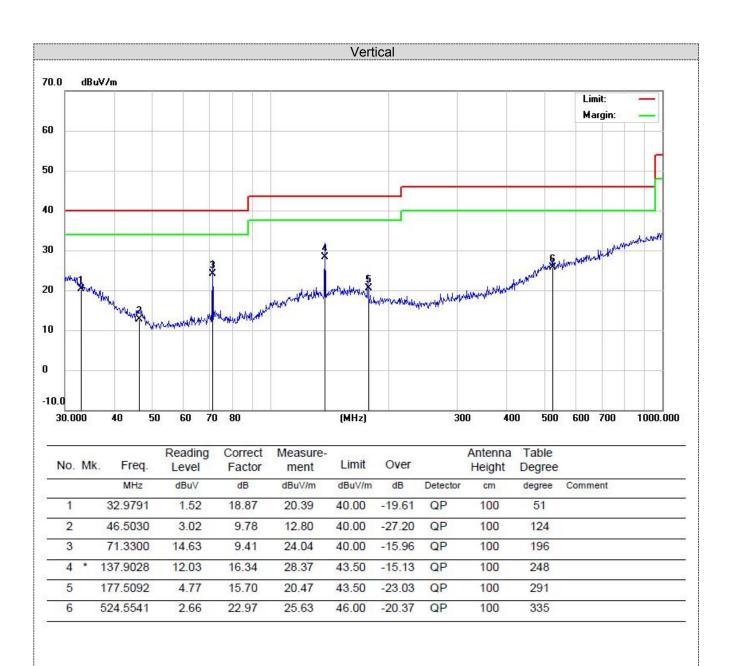
Remark:

- 1. We measured Radiated Emission at GFSK mode from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
- 2. For below 1GHz testing recorded worst at GFSK DH5 middle channel.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz



*:Maximum data x:Over limit I:over margin



*:Maximum data x:Over limit I:over margin

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For 1GHz to 25GHz

	GFSK (above 1GHz)								
Frequency(MHz): 2402			Pola	arity:	Н	HORIZONTAL			
Frequency (MHz)		sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	54.87	PK	74	19.13	52.97	31.42	6.98	36.5	1.9
4804.00	44.26	AV	54	9.74	42.36	31.42	6.98	36.5	1.9
7206.00	54.21	PK	74	19.79	43.61	37.03	8.87	35.3	10.6
7206.00	43.38	AV	54	10.62	32.78	37.03	8.87	35.3	10.6

Frequency(MHz):		2402		Polarity:		VERTICAL			
Frequency (MHz)	-	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	55.68	PK	74	18.32	53.78	31.42	6.98	36.5	1.9
4804.00	42.43	AV	54	11.57	40.53	31.42	6.98	36.5	1.9
7206.00	53.64	PK	74	20.36	43.04	37.03	8.87	35.3	10.6
7206.00	42.82	AV	54	11.18	32.22	37.03	8.87	35.3	10.6

Frequency(MHz):			2440 Polarity:		HORIZONTAL				
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	57.01	PK	74	16.99	54.95	30.98	7.58	36.5	2.06
4880.00	42.46	AV	54	11.54	40.4	30.98	7.58	36.5	2.06
7320.00	51.95	PK	74	22.05	41.03	37.66	8.56	35.3	10.92
7320.00	42.47	AV	54	11.53	31.55	37.66	8.56	35.3	10.92

Frequency(MHz):		2440		Polarity:		VERTICAL			
Frequency (MHz)	-	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	52.91	PK	74	21.09	50.85	30.98	7.58	36.5	2.06
4880.00	44.4	AV	54	9.6	42.34	30.98	7.58	36.5	2.06
7320.00	54.21	PK	74	19.79	43.29	37.66	8.56	35.3	10.92
7320.00	42.62	AV	54	11.38	31.7	37.66	8.56	35.3	10.92

Frequency(MHz):		2480		Polarity:		HORIZONTAL			
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	57.03	PK	74	16.97	53.96	31.47	7.8	36.2	3.07
4960.00	44.86	AV	54	9.14	41.79	31.47	7.8	36.2	3.07
7440.00	55.99	PK	74	18.01	44.25	38.32	8.72	35.3	11.74
7440.00	44.16	AV	54	9.84	32.42	38.32	8.72	35.3	11.74

Frequency(MHz):			2480 Polarity:		VERTICAL				
Frequency (MHz)	Emis Lev (dBu)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	54.89	PK	74	19.11	51.82	31.47	7.8	36.2	3.07
4960.00	46.23	AV	54	7.77	43.16	31.47	7.8	36.2	3.07
7440.00	56.29	PK	74	17.71	44.55	38.32	8.72	35.3	11.74
7440.00	44.35	AV	54	9.65	32.61	38.32	8.72	35.3	11.74

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REMARKS:

- Emission level (dBuV/m) =Raw Value (dBuV)+Correction F
 Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable
 Margin value = Limit value- Emission level.
 -- Mean the PK detector measured value is below average
 The other emission levels were very low against the limit.
- Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m) Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier Margin value = Limit value- Emission level. -- Mean the PK detector measured value is below average limit.

5.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power, 9.1.2.

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

See Appendix I

5.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

1.Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

2.Set the RBW =3 kHz.

3.Set the VBW =10 KHz.

4.Set the span to 1.5 times the DTS channel bandwidth.

5.Detector = peak.

6.Sweep time = auto couple.

7.Trace mode = max hold.

8.Allow trace to fully stabilize.

9.Use the peak marker function to determine the maximum power level.

10.If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11. The resulting peak PSD level must be 8 dBm.

<u>LIMIT</u>

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 RESULTS

See APPENDIX VI

5.5. 6dB Bandwidth and 99% Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB558074 D01 V03 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. 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.

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 43 KHz RBW and 150 KHz VBW record the 99% bandwidth.

<u>LIMIT</u>

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

TEST RESULTS

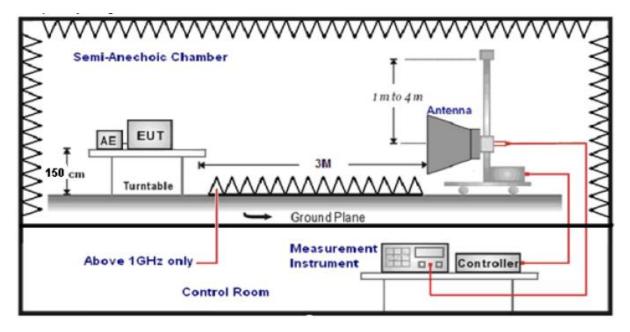
See Appendix II&Appendix III

5.6. Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed..
- 5. The distance between test antenna and EUT was 3 meter:
- 6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector				
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak				

<u>LIMIT</u>

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

TEST RESULTS

Results of Band Edges Test (Radiated)

Results of	Banu Eu	yes rest	(Radiated)	GFS	к				
Freque	ncy(MHz)):	24	02	Pola	arity:	Н	IORIZONTA	L
Frequency (MHz)	Le	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	56.72	PK	74	17.28	62.13	27.49	3.32	36.22	-5.41
2390.00	38.86	AV	54	15.14	44.27	27.49	3.32	36.22	-5.41
Freque	ncy(MHz)):	24	02	Pola	arity:		VERTICAL	
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	58.23	PK	74	15.77	63.64	27.49	3.32	36.22	-5.41
2390.00	42.05	AV	54	11.95	47.46	27.49	3.32	36.22	-5.41
Freque	ncy(MHz)):	2480 Polarity:		HORIZONTAL				
Frequency (MHz)		sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	57.59	PK	74	16.41	63.1	27.45	3.38	36.34	-5.51
2483.50	40.05	AV	54	13.95	45.56	27.45	3.38	36.34	-5.51
Freque	ncy(MHz)):	24	80	Pola	arity:	VERTICAL		
Frequency (MHz)	Emis Le (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	57.07	PK	74	16.93	62.58	27.45	3.38	36.34	-5.51
2483.50	41.44	AV	54	12.56	46.95	27.45	3.38	36.34	-5.51

REMARKS:

Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
 Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
 Margin value = Limit value- Emission level.
 -- Mean the PK detector measured value is below average limit.

5.7. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and mwasure frequeny range from 9KHz to 25GHz.

<u>LIMIT</u>

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

TEST RESULTS

See Appendix IV

5.8. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance

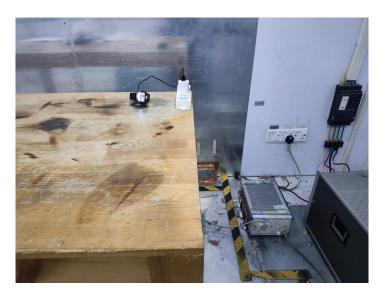
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

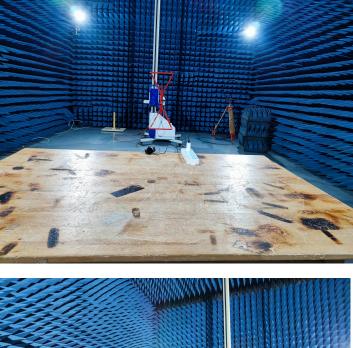
Antenna Connected Construction

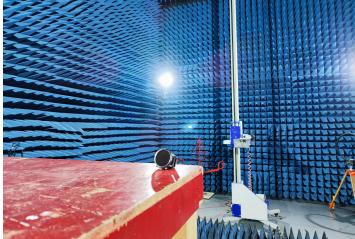
The directional gains of antenna used for transmitting is -2.89dBi, and the antenna is an Metal antenna to PCB board and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6. Test Setup Photos of the EUT





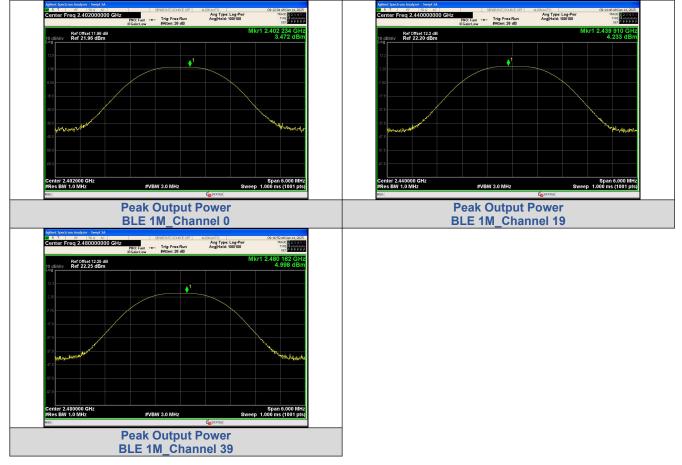


7. External and Internal Photos of the EUT

See related photo report.

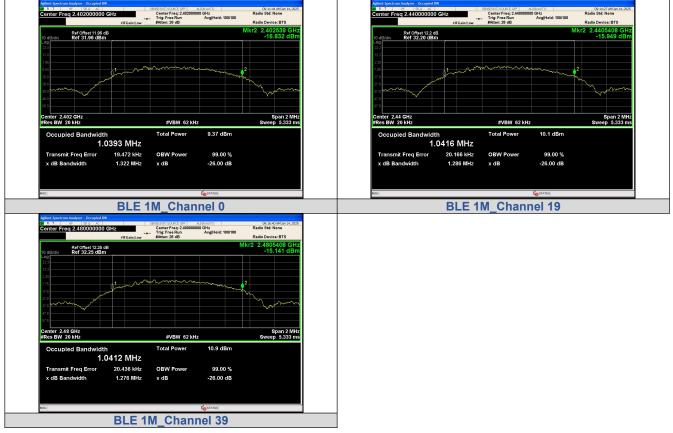
APPENDIX I. Conducted Output Power Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
	0	3.472	2.22	None	≤30	PASS
BLE 1M	19	4.233	2.65	None	≤30	PASS
	39	4.998	3.16	None	≤30	PASS



Test Result

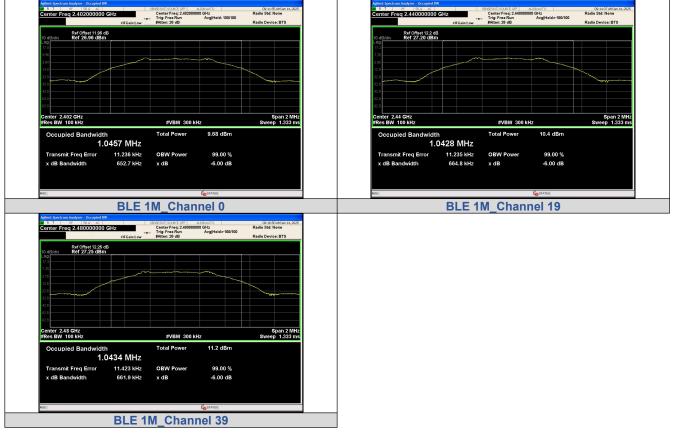
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0393
BLE 1M	19	2440	1.0416
BLE 1M	39	2480	1.0412



APPENDIX III. 6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
	0	2402	0.6527		PASS
BLE 1M	19	2440	0.6648	≥0.5	PASS
	39	2480	0.6619		PASS



APPENDIX IV. Conducted Out Of Band Emission

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
		2398.79	-49.462	-16.88	-32.582	PASS
		2400.00	-50.583	-16.88	-33.703	PASS
	0	4803.00	-63.926	-16.88	-47.046	PASS
	0	7204.50	-62.849	-16.88	-45.969	PASS
		9609.70	-61.700	-16.88	-44.820	PASS
		24955.7	-46.240	-16.88	-29.360	PASS
	10	4879.17	-64.015	-16.12	-47.895	PASS
BLE 1M		7319.37	-61.863	-16.12	-45.743	PASS
	19	9761.43	-61.999	-16.12	-45.879	PASS
		24897.6	-46.019	-16.12	-29.899	PASS
		2483.50	-50.400	-15.33	-35.070	PASS
		4960.95	-63.095	-15.33	-47.765	PASS
	39	7438.60	-62.659	-15.33	-47.329	PASS
		9921.87	-62.364	-15.33	-47.034	PASS
		24920.1	-45.637	-15.33	-30.307	PASS

Center Freq 2.402000000 G	CH2 SEVERITI SOURCE OFF ALIGNAUTO Avg Ty PNO: Wide Trig: Free Run Avg Hel IFGain:Low \$Atten: 26 dB	09:12:27 AM Jun 14, 2025 rps: Log-Pwr TRACI DESK TO Hd: 100/100 Tek PPPPP	Aglent Spectrum Analyzer - Swept SA	SBRSEID/T SOLRCE OFF ALIGNAUTO AVg Ty PNO: Wide → Trig: Free Run Avg He IFGein:Low #Atten: 26 dB	00:12:46 AM 3an 14, 2025 pe: Log-Pewr TRACT 23:45 14: 100/100 Tree 0:1 2 P P P P P			
10 dB/div Ref 0ffset 11.96 dB Ref 15.00 dBm		Mkr3 2.401 759 2 GHz 3.124 dBm	Ref Offset 11.96 dB 10 dB/div Ref 15.00 dBm		Mkr1 2.398 79 GHz -49.462 dBm			
500 510 150	4 ³		Log 5.0 .5					
-25.0 			Center 2.400000 GHz		Span 10.00 MHz Sweep 1.000 ms (1001 pts)			
-550 			#Res BW 100 kHz MR HODE TRC: SQL X 1 N 1 F 2,398,79 GF 2 N 1 r 2,400 00 GF 3 1 2,400 00 GF 4	#VEW 300 kHz Y JUNCTION FUNCTION WOTH 42 49465 dBm 42 50.583 dBm	Sweep 1.000 ms (1001 pts)			
750 Center 2.4020000 GHz #Res BW 100 kHz	#VBW 300 kHz	Span 979.1 kHz Sweep 1.000 ms (1001 pts)	6 7 9 9 10 11		×			
MSG	L ostatus		MSG					
Ir	n-Band Reference L		Out Of Band Emission					
	BLE 1M_Channel	0		BLE 1M_Channel	0			
Agilent Spectrum Analyzer - Swept SA 20. R. T. RF [50 g. AC] Center Freq 12.5150000000	I GHz Sevee infi scurce off ALbavauro PRO: Fast Trig: Free Run AvgiHe IFGaint.ov Atten: 14 dB	00:13:21 AM Jun 14, 2025 rps: Log-Pwv Hdc: 10/10 Det PPPPP	Adjent Spectrum Analyzer - Swept SA UK RT - Spectrum Analyzer - Swept SA Center Freq 2.4400000000 GHz	SENSE: INT SOURCE OFF AJSNAUTO Avg Ty PNO: Wide Trig: Free Run Avg He IFGain:Low #Atten: 25 dB	09:15:09 AM (2m 14, 2025 rpe: Leg-Pew TRuct D 20 4 (2m) id: 100/100 Tvet D 20 4 (2m) tet D 2 P P P P P			
10 dB/div Ref 0ffset 11.96 dB 10 dB/div Ref 15.00 dBm 5.00		Mkr5 2:402 2 GHz 1.924 dBm	10 dB/div Ref 0ffset 12.2 dB Leg 5 cc		Mkr3 2:439 758 7 GHz 3.882 dBm			
-5.00								
4 cm -15 0 -35 0 -45 0 -45 0 -45 0 -45 0	0 ² 0 ³	4	160					
4 00 4 0 4	AVEN SOO KHZ	4 Stop 25.00 GHz Sweep 2.387 s (4000 prs)	3,13 168 369 369 469					
#Res BW 100 kHz MKRI MODEL TACL SOLL X 1 N 1 F 4.90 2 N 1 F 7.20	√2 √3 AVEW 300 KHz AVEW 300 KHz 03 0 GHz 55256 dBm 03 5 GHz 5226 dBm 03 5 GHz 524 dBm 03 7 GHz 522 dBm	Sweep 2.387 s (40001 pts)	510 551 561 562 563 564 564 564 565 565 565 565 565 565 565					
#Res BW 100 kt/z Here water for (z) S 1 N 1 F 400 2 N 1 F 200 3 1 F 200 7 200 4 N 1 F 2000 200 9 1 1 F 2000 100	Y FUNCTION FUNCTION WDTH 03 0 GHz -63.926 dBm 04 5 GHz -52.849 dBm	Sweep 2.387 s (40001 pts)	113 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125	PVEW 300 MHz Genual Band Reference L				

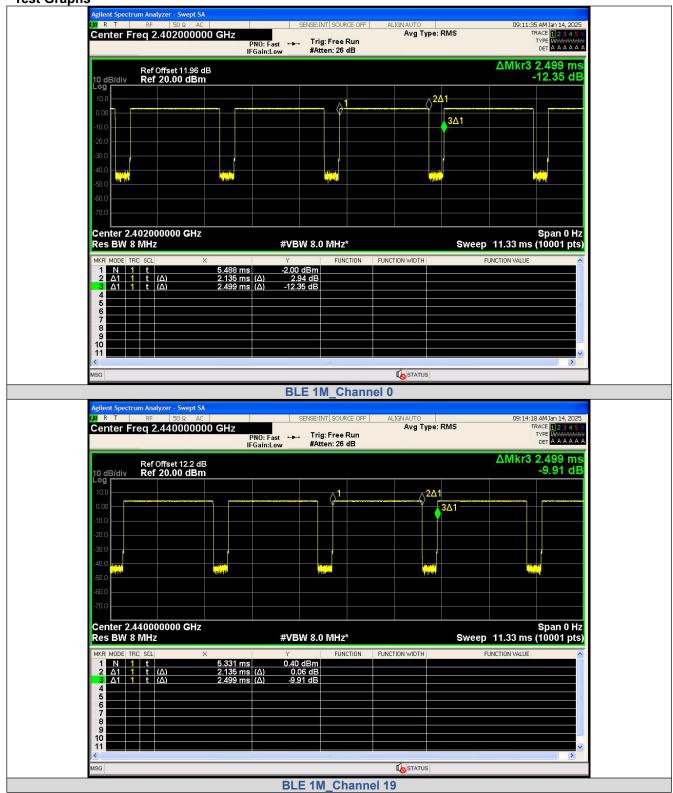
Report No.: MTEB25010103-R1

Center Freq 12.51500000	O GHZ SRISEINT SOURCE OFF ALISM PNO: Fast → Trig: Free Run IFGain:Low Atten: 14 dB	NAUTO 09:15:45 AM Ian 14,2025 Avg Type: Log-Pwr TR4CE 12 at 5 at 5 TYRE Typesever Avg/Hold: 10/10 TYRE Typesever	Addent Spectrum Analyzer - Swept St Di Rutt RS 150 g Ac Center Freq 2.48000000	SENSE INTE SOURCE OFF	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	00:17:22 AM Jan 14, 2025 TRACE 123 4 5 TYPE M DET PPPPP
Ref Offset 12.2 dB		Mkr5 2.440 2 GHz 3.156 dBm	10 dB/div Ref Offset 12.25 d 10 dB/div Ref 15.00 dBm	iB 1	Mł	r3 2.479 756 8 GHz 4.674 dBm
5 5.00			Log	3		
-5.00		-16.12 (8)	5.00			
-25.0			-5.00			
-45.0	2 43		-16.0			
-55.0 			-25.0			
Start 30 MHz		Stop 25.00 GHz	-35.0			
#Res BW 100 kHz	#VBW 300 kHz	Stop 25.00 GHz Sweep 2.387 s (40001 pts)	-46.0			
2 N 4 7 0	379 2 GHz -64.015 dBm 319 4 GHz -61.853 dBm 51 4 GHz -61.863 dBm		00.0			
4 N 1 f 248 5 N 1 f 24	140 2 GHz 46.019 dBm 140 2 GHz 3.156 dBm		70.0			
7 8 9			-75.0			
10		8	Center 2.4800000 GHz #Res BW 100 kHz	#VBW 300 kHz	Swe	Span 992.9 kHz ep 1.000 ms (1001 pts)
MSG		STATUS	MSG		STATUS	
	30.0 MHz - 25000.0	0 MHz		In-Band Referen	ice Level	
		1.40			1.00	
	BLE 1M_Channe	el 19		BLE 1M_Chai	nnel 39	
Agilent Spectrum Analyzer - Swept SA 00 R T RF 50 0 AC Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	NAUTO 09:17:40 AM 3m 14, 2025	Aglent Spectrum Analyzer - Smpt S2 2018 T T B P S20 72 Center Freq 12.515000	SERVERINT SOURCE OFF	ALISNAUTO	09:18:15 AM Jan 14, 2025 TRACE 2 2 4
Center Freq 2.483500000	SENSE DIT SOURCE OFF	NAUTO 09:17:40.44 Jan 14, 2025 Avg Type: Leg-Pwr TRACT 19 2 8 4 Avg[Hold: 100/100 rve_k/k/k/k/k/k/k/ cet 19 2 4 2 4	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	AVE Type: Log-Pwr Avg/Heid: 10/10	TRACE 2 3 4 5 6 TYPE MUMMUM DET PPPPP
LM R T RF SD Q AC	SENSE:INT SOURCE OFF ALIGN	09:17:40 AM Jan 14, 2025 Avg Type: Log-Pwy TRACE D 24 4 20 Avg Type: Log-Pwy TRACE D 24 4 20	LO R T RF SD Q AC	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	ALISNAUTO	TRACE 23450
Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	Million 69:15 40.44 km tr 4 305* Avg Types, Log-Pwr Mix.2 Mix.2 Barray Mkr.2 2:45 00 GHz Mkr.2 C.60.400 dBm	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	ALISNAUTO	Mkr5 2.480 2 GHz 3.812 dBm
Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	NAUTO 09:17-00 AM MI 14, 2025 Avg Type: Log-Pwr Avg[Held: 100/100 Two Two Log Ppeper Mkr2 2,483 50 GHz	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	ALISNAUTO	TYPE PPPPP TYPE PPPPPP Mkr5 2.480 2 GHz
Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	Million 69:15 40.44 km tr 4 305* Avg Types, Log-Pwr Mix.2 Mix.2 Barray Mkr.2 2:45 00 GHz Mkr.2 C.60.400 dBm	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	ALISNAUTO	Mkr5 2.480 2 GHz 3.812 dBm
Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	Million 0912 MOM Sin 14: 3005 Avg Types, Log-Pwr Miccl. B Bartonic 120 Strategy Micl. 22, 243 Sin 30 GHz -60, 400 dBm	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	ALISNAUTO	Mkr5 2.480 2 GHz 3.812 dBm
Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	Million 0912 MOM Sin 14: 3005 Avg Types, Log-Pwr Miccl. B Bartonic 120 Strategy Micl. 22, 243 Sin 30 GHz -60, 400 dBm	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	ALISNAUTO	Mkr5 2.480 2 GHz 3.812 dBm
Center Freq 2.483500000	SENSE:INT SOURCE OFF ALIGN	MMD 09.1740.M Sin 14.4005 Avg Type, Leg-Pwr Third BERLEY Mike 2: 00100 Mike 2: 2.483: 50 GHz -50.400 dBm -153 db	DE R T PF 50 2 46 Center Freq 12.515000	A SERVER BUT SOLACE OFF 000 GHz Trig: Free Run FGein:Low Atten: 14 dB	Avgranto	High 1934 1934 1934 1934 1934 1934 1934 1934
20 A T 00 103 AC	GHZ PHO: Wile Trig: Free Run P Pro: Wile Trig: Free Ru	Will? 00,1240,M Sin 14,205 Avg Type: Log-Per Max Type: Log-Per Mix Type: Log-Per Mix Type: Log-Per Sweep Span 10,00 MHz Sweep Log-Om (1001 pts)	Center Freq 12.5.150000 Center Freq 12.5.150000 10 d806/w Ref 15.00 dBn 5.00 5.0	Control of the second sec	Avgranto	Mkr 5 2,480 2 GHz 3,812 dBm
20 A T 00 103 AC	GHz PRO: Wile - Trig: Free Ren E Galacter 2 #UNE AND ISSNE OF ALSON Free Ren 2 4 4 4 4 4 4 4 4 4 4 4 4 4	Will? 00,1240,M Sin 14,205 Avg Type: Log-Per Max Type: Log-Per Mix Type: Log-Per Mix Type: Log-Per Sweep Span 10,00 MHz Sweep Log-Om (1001 pts)	Center Freq 12.5.150000	Comparison of the second	Any Tipe: Log-Per Any Tipe: Log-Per Any Jine: Log-Per	Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41
20 A T 00 103 AC	GHZ PHO: Wile Trig: Free Run P Pro: Wile Trig: Free Ru	Will? 00,1240,M Sin 14,205 Avg Type: Log-Per Max Type: Log-Per Mix Type: Log-Per Mix Type: Log-Per Sweep Span 10,00 MHz Sweep Log-Om (1001 pts)	Center Freq 12.5.150000	Event Event 2000 GHz Trig Frag Run Estant Ive Trig Frag Run Steves H 400 50 Trig Frag Run Steves H 400 Trig Frag Run Steves H 400 1 2 3 1 2 3 1 2 3 10 2 3 10 2 3 10 2 3 10 2 3	Any Tipe: Log-Per Any Tipe: Log-Per Any Jine: Log-Per	Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41
20 A T 00 103 AC	GHZ PHO: Wile Trig: Free Run P Pro: Wile Trig: Free Ru	Will? 00,1240,M Sin 14,205 Avg Type: Log-Per Max Type: Log-Per Mix Type: Log-Per Mix Type: Log-Per Sweep Span 10,00 MHz Sweep Log-Om (1001 pts)	Center Freq 12.5.15000 Center Freq 12.5.15000 Conter Freq 12.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5	Comparison of the second	Any Tipe: Log-Per Any Tipe: Log-Per Any Jine: Log-Per	Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41
20 A T 00 103 AC	GHz PR02 MIR SANG OFF AUXA PR02 MIR av THE PROB R P PR03 MIR av THE PROB R P PR04 MIR av PR04 MIR av P PR04 MIR av P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P <td>WMO 09.17-0.04 an 14.205 Avg Type. Log-ber Wag Type. Log-ber Wag Type. Log-ber MK-2 2:463 50 CHz -50.400 CHm 0 an 14.205 MK-2 2:463 50 CHz -50.400 CHm 1 a 19 an (1 a 19 an) Span 10.00 MHz Sweep 1.000 ms (1001 pts) 1 a 19 an (1 a 19 an) Span 10.00 MHz Sweep 1.000 ms (1001 pts) 0 and (1 a 1)</td> <td>Center Freq 12.5.15000 Center Freq 12.5.15000 Conter Freq 12.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5</td> <td>Comparison of the second second</td> <td>Ava The: Leg Per Ava Th</td> <td>Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41</td>	WMO 09.17-0.04 an 14.205 Avg Type. Log-ber Wag Type. Log-ber Wag Type. Log-ber MK-2 2:463 50 CHz -50.400 CHm 0 an 14.205 MK-2 2:463 50 CHz -50.400 CHm 1 a 19 an (1 a 19 an) Span 10.00 MHz Sweep 1.000 ms (1001 pts) 1 a 19 an (1 a 19 an) Span 10.00 MHz Sweep 1.000 ms (1001 pts) 0 and (1 a 1)	Center Freq 12.5.15000 Center Freq 12.5.15000 Conter Freq 12.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5	Comparison of the second	Ava The: Leg Per Ava Th	Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41
B T P	GHz PR02 MIR SANG OFF AUXA PR02 MIR av THE PROB R P PR03 MIR av THE PROB R P PR04 MIR av PR04 MIR av P PR04 MIR av P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P <td>WithO 09,12,40,44 an 14,205 Avg Type, Leg-Par WithO Mike 2,2483,50,CHF 50,0400 dBm -50,400 dBm 119,26 Span 10,00 MHz 119,26 Sweep 1,000 ms (1001 pb) Forcion Nucl</td> <td>Center Freq 12.5.15000 Center Freq 12.5.15000 Conter Freq 12.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5</td> <td>Comparison of the second second</td> <td>Ava Tipe: Log Per Ava Tipe: Lo</td> <td>Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41</td>	WithO 09,12,40,44 an 14,205 Avg Type, Leg-Par WithO Mike 2,2483,50,CHF 50,0400 dBm -50,400 dBm 119,26 Span 10,00 MHz 119,26 Sweep 1,000 ms (1001 pb) Forcion Nucl	Center Freq 12.5.15000 Center Freq 12.5.15000 Conter Freq 12.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5 Conter Freq 13.5.5	Comparison of the second	Ava Tipe: Log Per Ava Tipe: Lo	Mikr5 2.480 2 GHz 3.812 dBm 413 db 413 db 41

APPENDIX V. Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
	0	2.135	2.499	85.44	0.8544	0.6834
BLE 1M	19	2.135	2.499	85.44	0.8544	0.6834
	39	2.136	2.499	85.49	0.8549	0.6808



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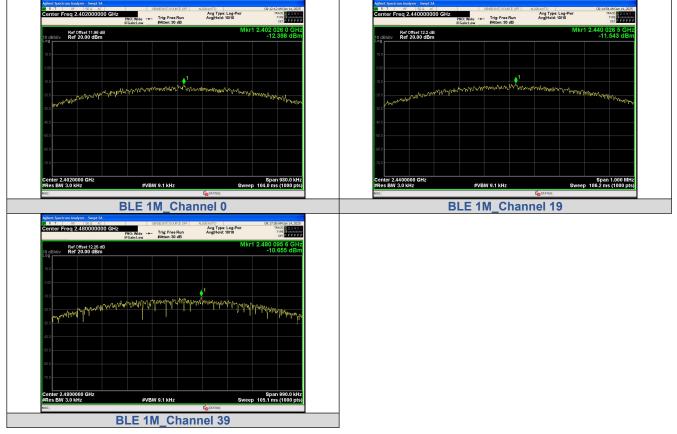
Agnent Spect	RF	lyzer - Swept SA 50 Ω AC			SENSE:I	NT SOURCE OFF	ALI	IGNAUTO		09:16	:32 AM Jan 14, 2025
Center F	req 2	.4800000	F	PNO: Fast Gain:Low		g: Free Run ten: 26 dB		Avg Type:	RMS		TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A A A A A A
10 dB/div Log		Offset 12.25 o 20.00 dBm								ΔMkr3	2.499 ms -21.55 dB
					1		² /	<u></u>			
-10.0	ن م د							_3∆1			
-30.0											
-40.0	8	ptropp					(Part) (Part)	(1 and	
-60.0											
Center 2. Res BW 2		00000 GHz		#	VBW 8.0) MHz*			Sweep	11.33 m	Span 0 Hz s (10001 pts)
MKR MODE T	RC SCL		×		Y	FUNCTION	FUNCT	ION WIDTH	ł	UNCTION VALUE	^
1 Ν 1 2 Δ1 1 3 Δ1 1 4		(Δ) (Δ)	4.436 ms 2.136 ms 2.499 ms	(Δ)	4.42 dBm 2.47 dB -21.55 dB						
5 6 7											
8 9 10 11											
and a second				6		Ш.					
MSG								STATUS			

APPENDIX VI. Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-12.398	≤8	PASS
BLE 1M	19	-11.543	≤8	PASS
BLE 1M	39	-10.655	≤8	PASS

Test Graphs



.....End of Report.....