

Test Report

Report No.: MTi240228011-01E2

Date of issue: 2024-03-13

Applicant: Shenzhen Baseus Technology Co., Ltd.

Product: Baseus Open-Ear TWS Earbuds

Model(s): Baseus AirGo AS01

FCC ID: 2A482-AIRGOAS01

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com



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Test Result Certification Applicant: Shenzhen Baseus Technology Co., Ltd. 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Address: Gangtou Community, Bantian Street, Longgang District, Shenzhen, China. Shenzhen Baseus Technology Co., Ltd. Manufacturer: 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Address: Gangtou Community, Bantian Street, Longgang District, Shenzhen, China. HUIZHOU JONETECH ELECTRONIC CO.,LTD **Factory:** C building, Hushan Technology Park, Shiwan Twon, Boluo City, Guangdong Address: 516127, China **Product description** Baseus Open-Ear TWS Earbuds Product name: Trademark: baseus Baseus AirGo AS01 Model name: Series Model(s): N/A 47 CFR Part 15.247 Standards: ANSI C63.10-2013 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 **Date of Test** Date of test: 2024-03-06 to 2024-03-12 Test result: **Pass**

Test Engineer	:	Yanice Xie
		(Yanice.Xie)
Reviewed By	:	leon chen
		(Leon Chen)
Approved By		Tom Xue
		(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Baseus Open-Ear TWS Earbuds
Model name:	Baseus AirGo AS01
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V or DC 3.7V by battery Earphone Capacity:DC 3.7V 40mAh 0.148Wh Charging Case Capacity:DC 3.7V 400mAh 1.48Wh
Accessories:	Cable: USB-A to Type-C 0.3m
Hardware version:	V0C
Software version:	V15
Test sample(s) number:	MTi240228011-01S1001
RF specification	
Operating frequency range:	2402 - 2480MHz
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	FPC Antenna
Antenna(s) gain:	0.33 dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX mode(GFSK-1M)
Mode2	TX mode (GFSK-2M)

1.2.1 Operation channel list

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



Test Channel List

Operation Band: 2400-2483.5 MHz

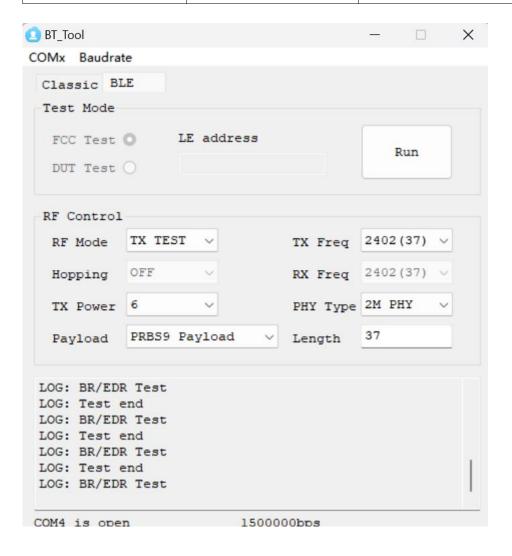
Bandwidth	Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)
(MHz)	(MHz)	(MHz)	(MHz)
2	2402	2440	2480

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software:

For power setting, refer to below table.

i			
Mode	2402MHz	2440MHz	2480MHz
1M	6	6	6
2M	6	6	6





1.3 Environmental Conditions

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

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list					
Description Model Serial No. Manufacture					
1	1	1	1		
Support cable list					
Description	Length (m)	From	То		
1	1	1	1		

1.5 Measurement uncertainty

Measurement	Uncertainty
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

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

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2 Summary of Test Result

No.	Item	Requirement	Result
1	Antenna requirement	47 CFR 15.203	Pass
2	Occupied Bandwidth	47 CFR 15.247(a)(2)	Pass
3	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
4	Power Spectral Density	47 CFR 15.247(e)	Pass
5	RF conducted spurious emissions and band edge measurement	47 CFR 15.247(d), 15.209, 15.205	Pass
6	Band edge emissions (Radiated)	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Radiated emissions (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated emissions (above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Conducted Emission at AC power line	47 CFR 15.207(a)	N/A

Notes:

- 1.N/A means not applicable.
- 2. Since the EUT power by DC supply, therefore AC power line conducted emissions test is not required.



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory: Shenzhen Microtest Co., Ltd.	
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone: (86-755)88850135	
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due				
	Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density RF conducted spurious emissions and band edge measurement									
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25				
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24				
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24				
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24				
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25				
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25				
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04				
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24				
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04				
			emissions (Radi nissions (above ´							
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25				
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06-17	2025-06-16				
3	Amplifier	Agilent	8449B	3008A01120	2023-06-26	2024-06-25				
4	Multi-device Controller	TuoPu	TPMDC	1	2023-05-04	2024-05-03				
5	MXA signal analyzer	Agilent	N9020A	MY54440859	2023-06-01	2024-05-31				
6	PXA Signal Analyzer	Agilent©	N9030A	MY51350296	2023-04-26	2024-04-25				
7	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06-17	2025-06-16				
8	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2023-04-26	2024-04-25				
		Radiated em	issions (below	1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25				
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10				
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10				
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-04-25	2024-04-24				
5	Multi-device Controller	TuoPu	TPMDC	1	2023-05-04	2024-05-03				



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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5.1.1 Conclusion:

The antenna of the EUT is permanently attached.
The EUT complies with the requirement of FCC PART 15.203.



6 Radio Spectrum Matter Test Results (RF)

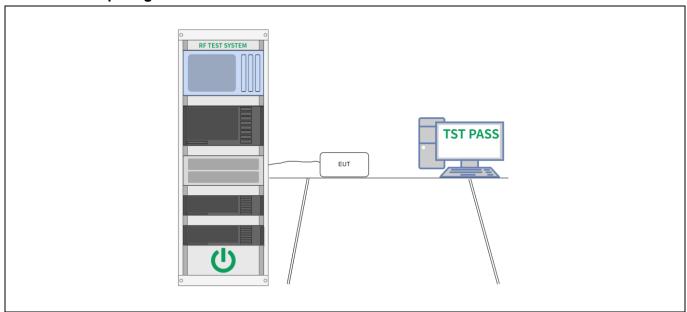
6.1 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.1.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 25 °C Humidity: 55 % Atmospheric Pressure: 99 kPa							
Pre test mode: Mo			e1, Mode2					
Final test mode	Final test mode: Mode1, Mode2							

6.1.2 Test Setup Diagram:



6.1.3 Test Data:



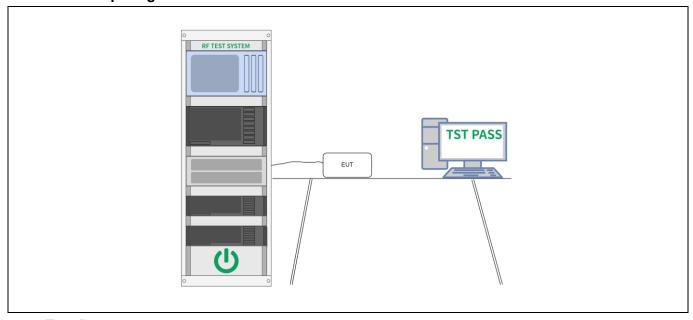
6.2 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power

6.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 25 °C Humidity: 55 % Atmospheric Pressure: 99 kPa							
Pre test mode:			e1, Mode2					
Final test mode	Final test mode: Mode1, Mode2							

6.2.2 Test Setup Diagram:



6.2.3 Test Data:



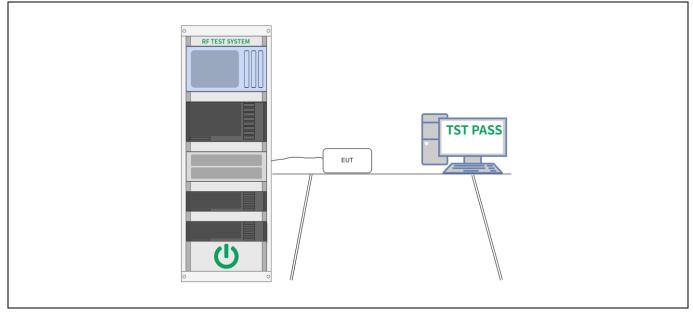
6.3 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

6.3.1 E.U.T. Operation:

Operating Environment:							
Temperature:	Temperature: 25 °C Humidity: 55 % Atmospheric Pressure: 99 kPa						
Pre test mode: M			e1, Mode2				
Final test mode: Mode1, Mode2							

6.3.2 Test Setup Diagram:



6.3.3 Test Data:



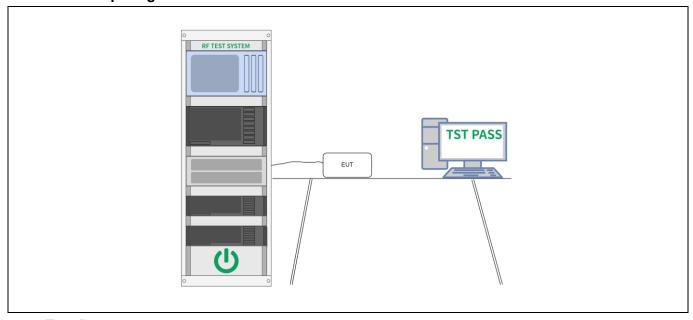
6.4 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), 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.
Test Method:	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.4.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 25 °C Humidity: 55 % Atmospheric Pressure: 99 kPa							
Pre test mode: Mo			e1, Mode2					
Final test mode	Final test mode: Mode1, Mode2							

6.4.2 Test Setup Diagram:



6.4.3 Test Data:



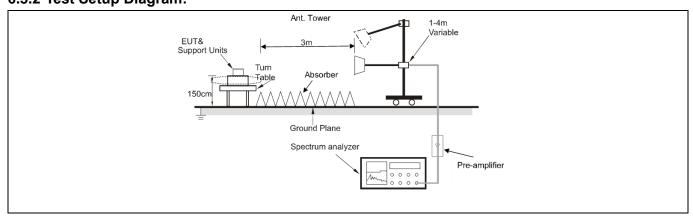
6.5 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), 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 Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak 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.						
Test Method:	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2013 se	ction 6.10.5.2					

6.5.1 E.U.T. Operation:

Operating Environment:							
Temperature:	emperature: 24 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa	
Pre test mode:		Mode	e1, Mode2				
Final test mode	e:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.							

6.5.2 Test Setup Diagram:



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6.5.3 Test Data:

Mode1 /	Polari	zatio	n: Horizonta	al / CH: L					
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		2310.000	51.69	-12.83	38.86	74.00	-35.14	peak
	2	*	2310.000	42.50	-12.83	29.67	54.00	-24.33	AVG
	3		2390.000	49.76	-12.42	37.34	74.00	-36.66	peak
	4		2390.000	41.48	-12.42	29.06	54.00	-24.94	AVG

No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	52.75	-12.83	39.92	74.00	-34.08	peak
2	*	2310.000	42.35	-12.83	29.52	54.00	-24.48	AVG
3		2390.000	50.77	-12.42	38.35	74.00	-35.65	peak
4		2390.000	41.24	-12.42	28.82	54.00	-25.18	AVG

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Mode1 /	Polari	zatio	n: Horizonta	al / CH: H					
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		2483.500	50.65	-12.44	38.21	74.00	-35.79	peak
	2		2483.500	41.51	-12.44	29.07	54.00	-24.93	AVG
	3		2500.000	51.82	-12.35	39.47	74.00	-34.53	peak
	4	*	2500.000	41.94	-12.35	29.59	54.00	-24.41	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	51.11	-12.44	38.67	74.00	-35.33	peak
2		2483.500	41.66	-12.44	29.22	54.00	-24.78	AVG
3		2500.000	51.58	-12.35	39.23	74.00	-34.77	peak
4	*	2500.000	42.17	-12.35	29.82	54.00	-24.18	AVG



6.6 Radiated emissions (below 1GHz)

Test Requirement:	restricted bands, as de	7(d), In addition, radiated emfined in § 15.205(a), must als s specified in § 15.209(a)(see	so comply with the
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	intentional radiators op frequency bands 54-72 However, operation with sections of this part, e. In the emission table a The emission limits she employing a CISPR qu kHz, 110–490 kHz and	In paragraph (g), fundamental perating under this section shows the perating under this section shows the perating under this section shows the perating under the pe	all not be located in the MHz or 470-806 MHz. s permitted under other at the band edges. ased on measurements the frequency bands 9–90 emission limits in these
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.2	ction 6.6.4 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 sed	ction 6.6.4	

6.6.1 E.U.T. Operation:

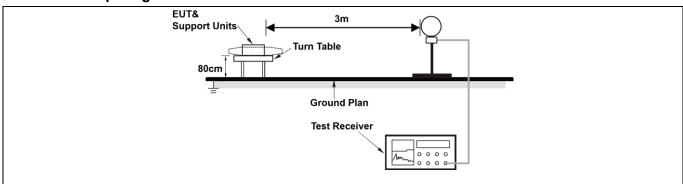
Operating Envi	ronment	1				
Temperature:	24 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:			re-test mode w ded in the repo	vere tested, only the data or	of the worst mode
NI 1						

Note:

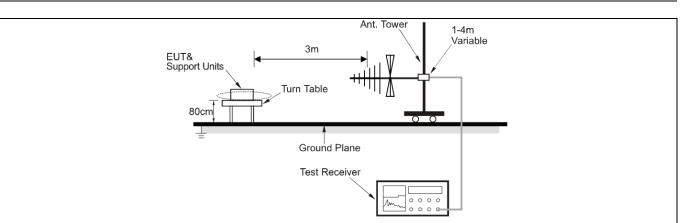
The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.

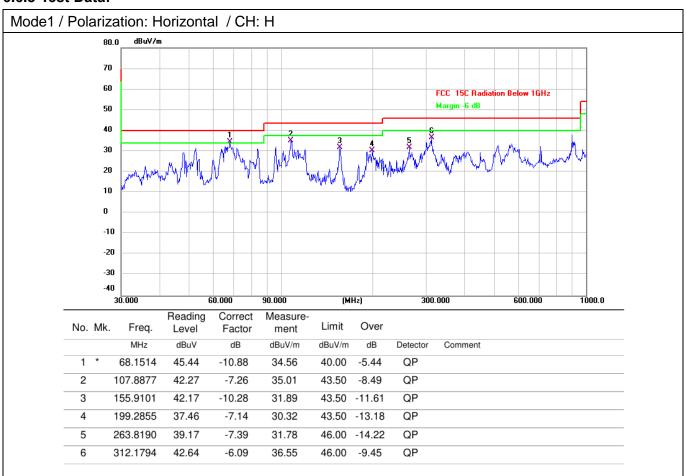
6.6.2 Test Setup Diagram:



Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



6.6.3 Test Data:



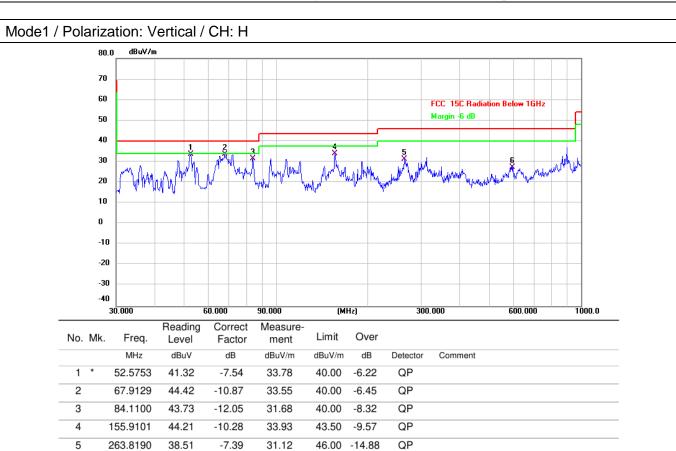
6

597.2234

30.41

-2.98

27.43



46.00 -18.57

QP



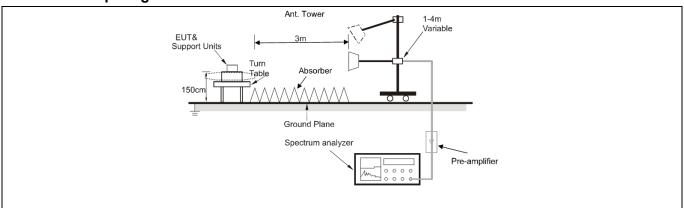
6.7 Radiated emissions (above 1GHz)

Test Requirement:	*	nissions which fall in the rest comply with the radiated em 5(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)	
	0.009-0.490	2400/F(kHz)	300	
	0.490-1.705	24000/F(kHz)	30	
	1.705-30.0	30	30	
	30-88	100 **	3	
	88-216	150 **	3	
	216-960	200 **	3	
	Above 960	500	3	
	intentional radiators op frequency bands 54-72 However, operation wit sections of this part, e. In the emission table a The emission limits she employing a CISPR qu kHz, 110–490 kHz and	n paragraph (g), fundamental perating under this section shown 2 MHz, 76-88 MHz, 174-216 whin these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are basispeak detector except for above 1000 MHz. Radiated on measurements employing	all not be located in the MHz or 470-806 MHz. s permitted under other at the band edges. ased on measurements the frequency bands 9–9 emission limits in these	90
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.2	otion 6.6.4 47 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 sed	ction 6.6.4		

6.7.1 E.U.T. Operation:

Operating Envi	ronment:					
Temperature:	24 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:			re-test mode w ded in the repo	rere tested, only the data or ort	of the worst mode
attenuated moi	e than 20	dB b	elow the lim	its are not repo	itude of spurious emissior orted. d only the worst-case resu	

6.7.2 Test Setup Diagram:





6.7.3 Test Data:

Mode1 /	Polari	zatio	n: Horizonta	al / CH: L					
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		4804.000	58.54	-7.40	51.14	74.00	-22.86	peak
	2		4804.000	55.05	-7.40	47.65	54.00	-6.35	AVG
	3		7206.000	46.30	0.96	47.26	74.00	-26.74	peak
	4		7206.000	42.19	0.96	43.15	54.00	-10.85	AVG
	5		9608.000	50.09	2.16	52.25	74.00	-21.75	peak
	6	*	9608.000	46.49	2.16	48.65	54.00	-5.35	AVG

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	54.44	-7.40	47.04	74.00	-26.96	peak
2		4804.000	51.05	-7.40	43.65	54.00	-10.35	AVG
3		7206.000	46.99	0.96	47.95	74.00	-26.05	peak
4		7206.000	42.31	0.96	43.27	54.00	-10.73	AVG
5		9608.000	48.30	2.16	50.46	74.00	-23.54	peak
6	*	9608.000	44.22	2.16	46.38	54.00	-7.62	AVG



No	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	57.47	-7.45	50.02	74.00	-23.98	peak
2	<u>.</u>	4880.000	53.65	-7.45	46.20	54.00	-7.80	AVG
3	}	7320.000	46.37	0.77	47.14	74.00	-26.86	peak
4	-	7320.000	42.54	0.77	43.31	54.00	-10.69	AVG
5	j	9760.000	47.27	3.11	50.38	74.00	-23.62	peak
6	` *	9760.000	43.12	3.11	46.23	54.00	-7.77	AVG

No	. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	53.31	-7.45	45.86	74.00	-28.14	peak
2		4880.000	48.77	-7.45	41.32	54.00	-12.68	AVG
3		7320.000	46.75	0.77	47.52	74.00	-26.48	peak
4		7320.000	42.46	0.77	43.23	54.00	-10.77	AVG
5		9760.000	48.53	3.11	51.64	74.00	-22.36	peak
6	*	9760.000	44.25	3.11	47.36	54.00	-6.64	AVG



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	55.56	-7.20	48.36	74.00	-25.64	peak
2)	4960.000	51.41	-7.20	44.21	54.00	-9.79	AVG
3	3	7440.000	46.89	0.98	47.87	74.00	-26.13	peak
	ļ.	7440.000	42.70	0.98	43.68	54.00	-10.32	AVG
- 5	5	9920.000	47.13	3.02	50.15	74.00	-23.85	peak
- 6	*	9920.000	43.11	3.02	46.13	54.00	-7.87	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	52.01	-7.20	44.81	74.00	-29.19	peak
2		4960.000	47.85	-7.20	40.65	54.00	-13.35	AVG
3		7440.000	46.78	0.98	47.76	74.00	-26.24	peak
4		7440.000	42.59	0.98	43.57	54.00	-10.43	AVG
5		9920.000	47.83	3.02	50.85	74.00	-23.15	peak
6	*	9920.000	43.67	3.02	46.69	54.00	-7.31	AVG



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos



Appendix

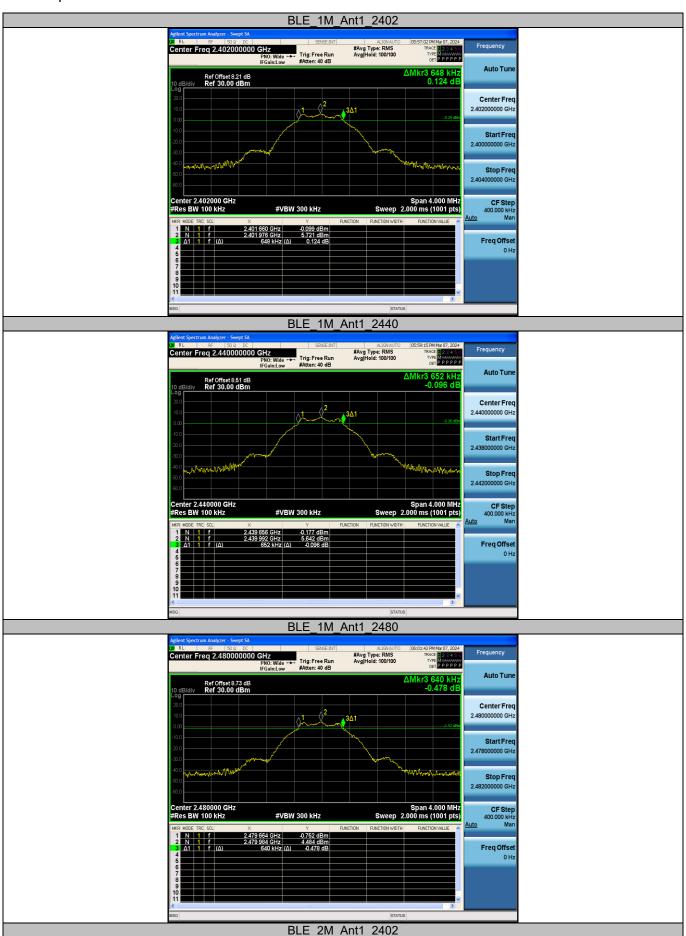


Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.648	0.5	PASS
		2440	0.652	0.5	PASS
		2480	0.640	0.5	PASS
BLE_2M	Ant1	2402	1.104	0.5	PASS
		2440	1.120	0.5	PASS
		2480	1.104	0.5	PASS

Test Graphs







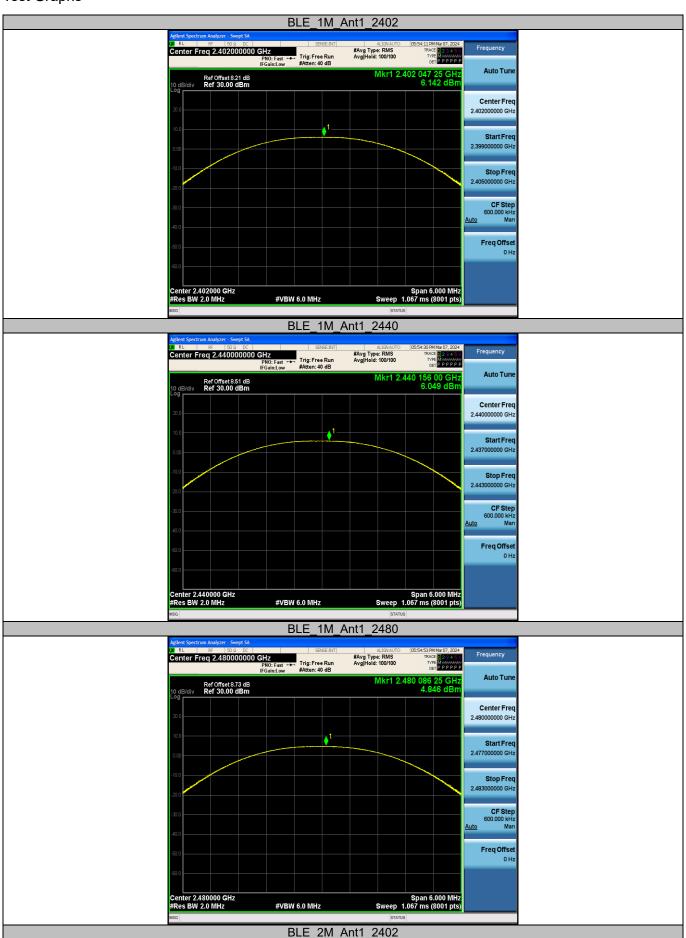
Appendix B: Maximum conducted output power

Test Result-Peak

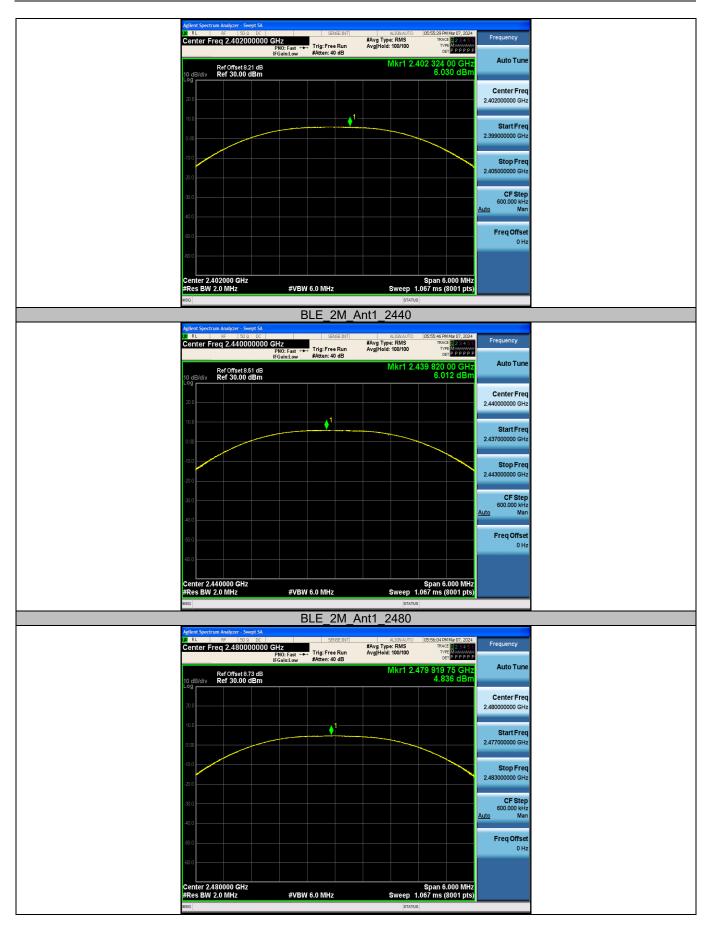
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	6.14	≤30	PASS
		2440	6.05	≤30	PASS
		2480	4.85	≤30	PASS
BLE_2M	Ant1	2402	6.03	≤30	PASS
		2440	6.01	≤30	PASS
		2480	4.84	≤30	PASS



Test Graphs







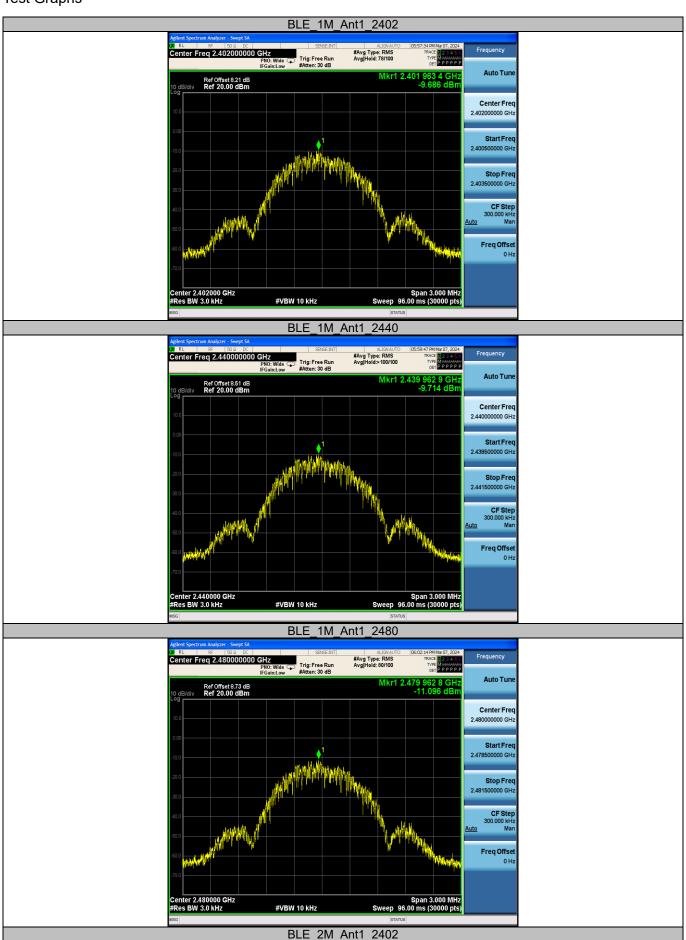


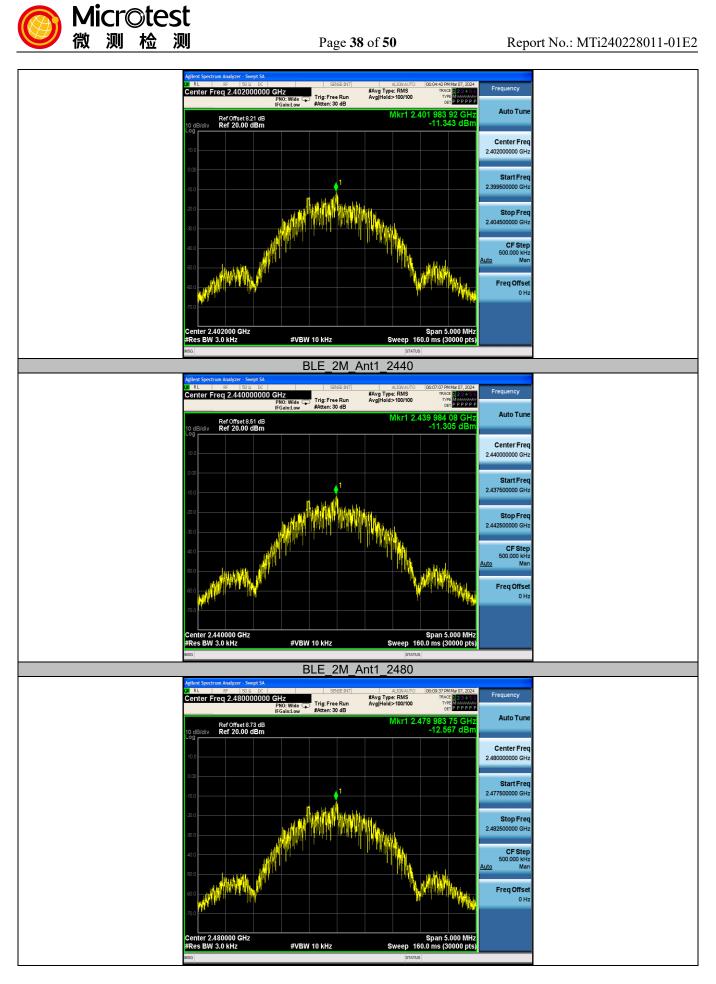
Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.69	≤8.00	PASS
		2440	-9.71	≤8.00	PASS
		2480	-11.10	≤8.00	PASS
BLE_2M	Ant1	2402	-11.34	≤8.00	PASS
		2440	-11.31	≤8.00	PASS
		2480	-12.57	≤8.00	PASS

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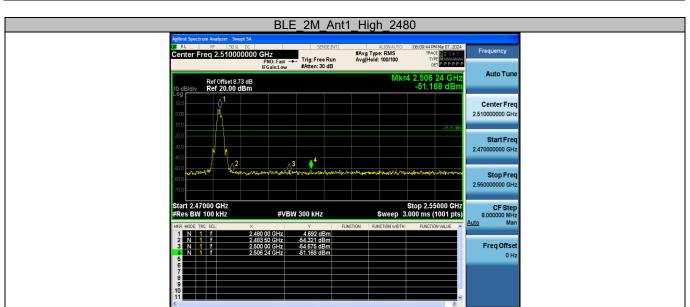






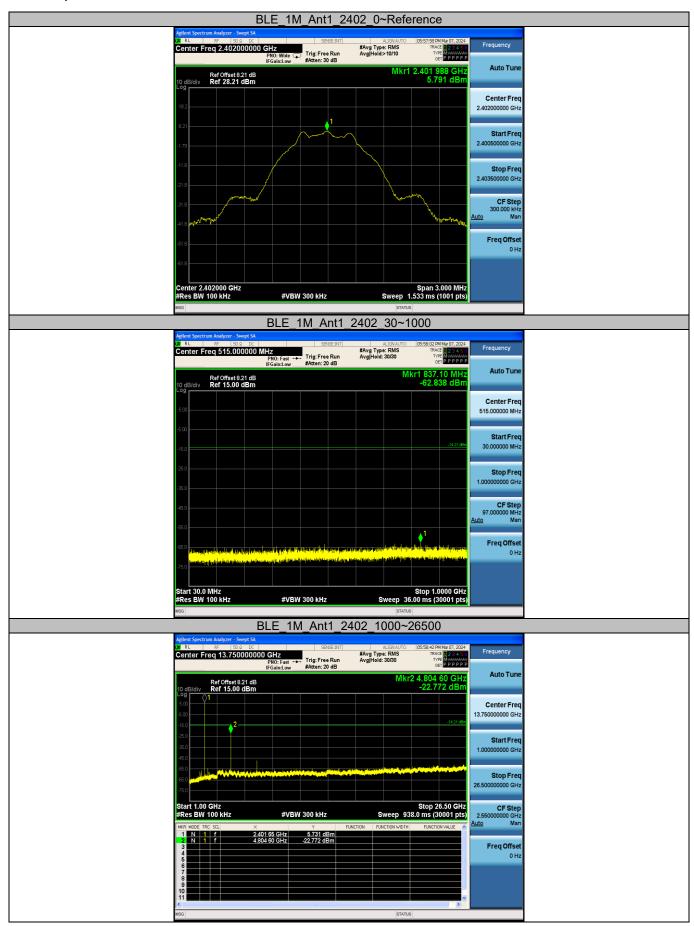
Appendix D: Band edge measurements





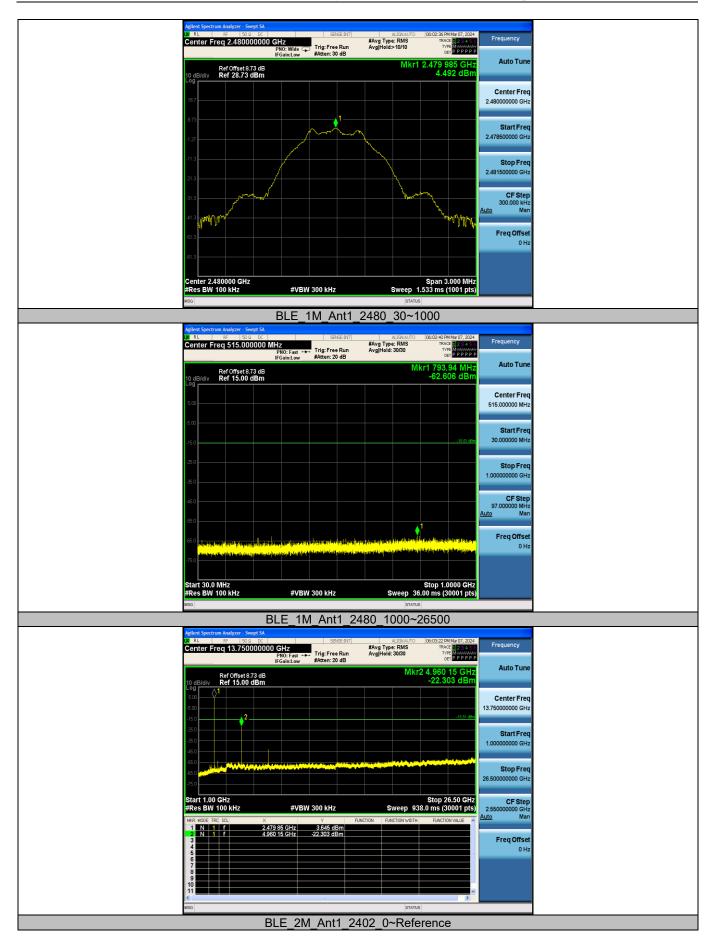


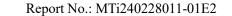
Appendix E: Conducted Spurious Emission

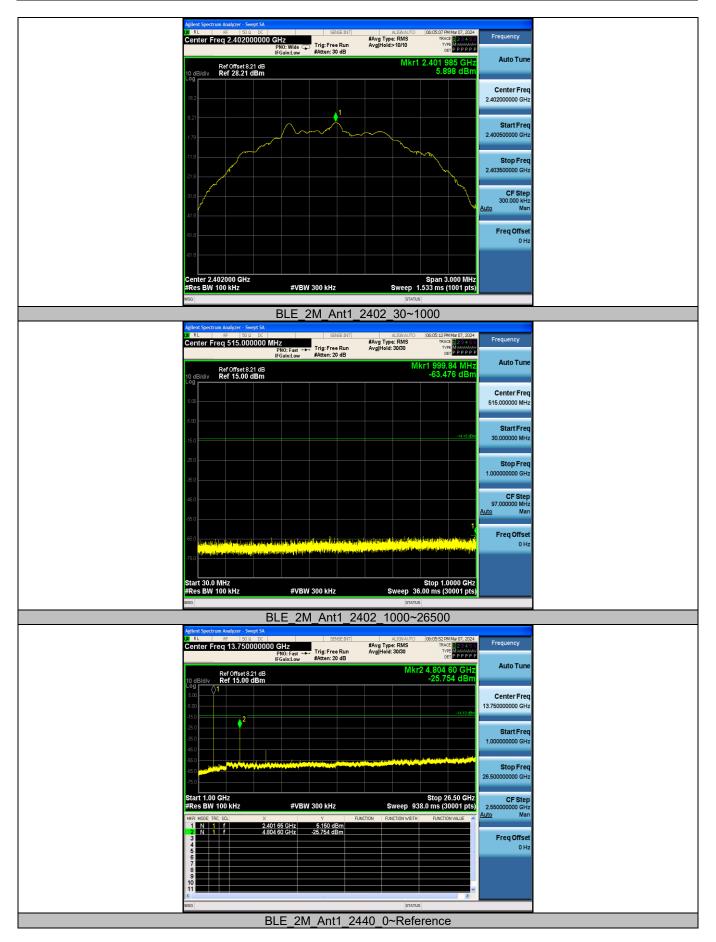


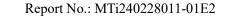


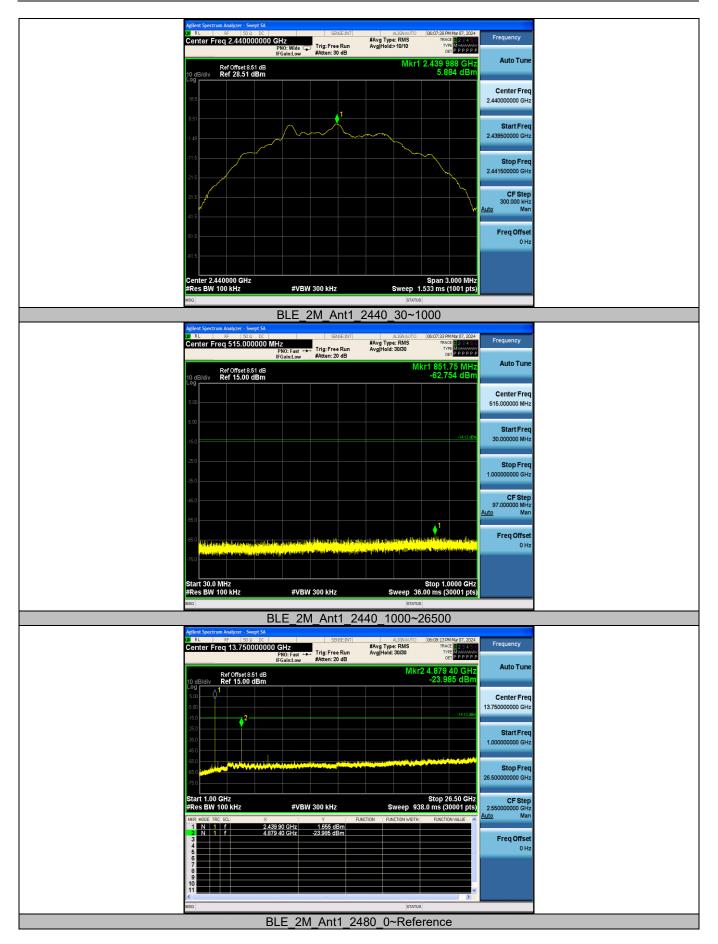
BLE 1M Ant1 2480 0~Reference

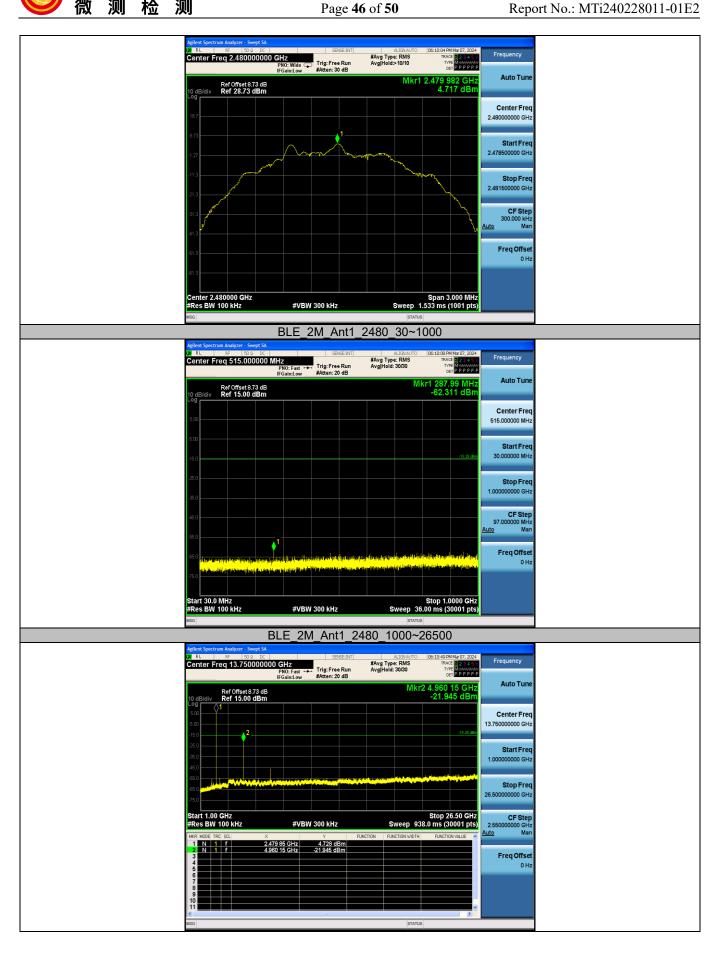










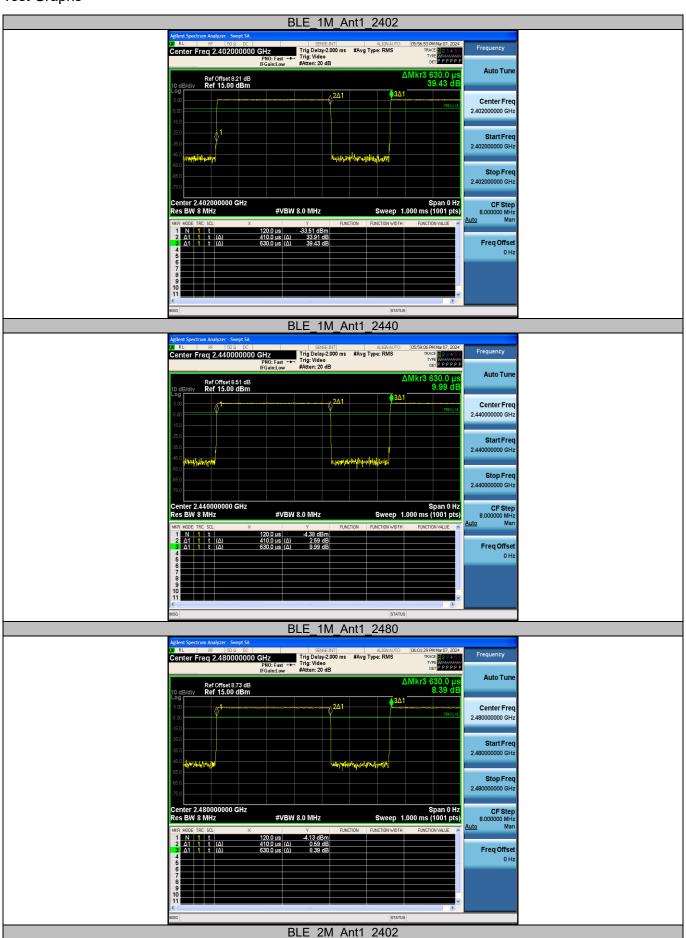


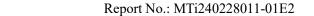


Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Frequency	ON Time	Period	Duty Cycle	Duty Cycle
		[MHz]	[ms]	[ms]	[%]	Factor[dB]
BLE_1M	Ant1	2402	0.41	0.63	65.08	1.87
		2440	0.41	0.63	65.08	1.87
		2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
		2440	0.23	0.62	37.10	4.31
		2480	0.23	0.63	36.51	4.38









----End of Report----

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