FCC Test Report

Report No.: RWAQ202400245B

Applicant: SweatWorks LLC

Address: 4532 Cherry Hill Rd Ste 543, Arlington, VA 22207, United States

Product Name: 21.5 inch tablet

Product Model: SW01

Multiple Models: N/A

Trade Mark: Fitness Console 21.5 SW1

FCC ID: 2BFH9-SW01

Standards: FCC CFR Title 47 Part 15C (§15.247)

Test Date: 2024-03-28 to 2024-04-07

Test Result: Complied

Report Date: 2024-04-10

Reviewed by: Frank Yin

Frank Yin
Project Engineer

Approved by: Jacob Gong

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

NVLAP TESTING NVLAP LAB CODE 600335-0

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4. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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Revision History

Version No.	Issued Date	Description
00	*2024-04-10*	*Original*

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1 General Information

1.1 Client Information

Applicant:	SweatWorks LLC
Address:	4532 Cherry Hill Rd Ste 543, Arlington, VA 22207, United States
Manufacturer:	SweatWorks LLC
Address:	4532 Cherry Hill Rd Ste 543, Arlington, VA 22207, United States

1.2 Product Description of EUT

The EUT is 21.5 inch tablet that contains BT, BLE(1M), 2.4G and 5G WLAN radios, this report covers the full testing of the BLE(1M) radio.

Sample Serial Number	6T-2 (assigned by WATC)
Sample Received Date	2024-03-21
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz(BLE1M)
Maximum Conducted Peak Output Power	7.64dBm
Modulation Technology	GFSK
Spatial Streams	SISO(1TX, 1RX)
Antenna Gain#	4.47dBi
Power Supply	DC 12V for adapter
Operating temperature#	0 deg.C to +40 deg.C
Adapter Information	Model: J652-1205000DI Input: AC100-240V, 50/60Hz, 1.7A Output: DC 12V/5A, 60.0W
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Device Antenna information:	

The BLE antenna is an internal antenna which cannot replace by end-user, please see product internal photos for details.

1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DSS, FCC ID: 2BFH9-SW01

FCC Part 15, Subpart E, Equipment Class: NII, FCC ID: 2BFH9-SW01

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB

Note: *The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	19	2440	38	2478
1	2404	20	2442	39	2480
…	…	…	…	/	/
18	2438	…	…	/	/

According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	19	2440	39	2480

Test Mode:				
Transmitting mode:	Keep the EUT in continuous transmitting with modulation			
Exercise software#:	engineer mode			
Mode	**Data rate**	**Power Level Setting#**		
		Low Channel	**Middle Channel**	**High Channel**
BLE 1M	1Mbps	default	default	default
The exercise software and the maximum power setting that provided by manufacturer.				

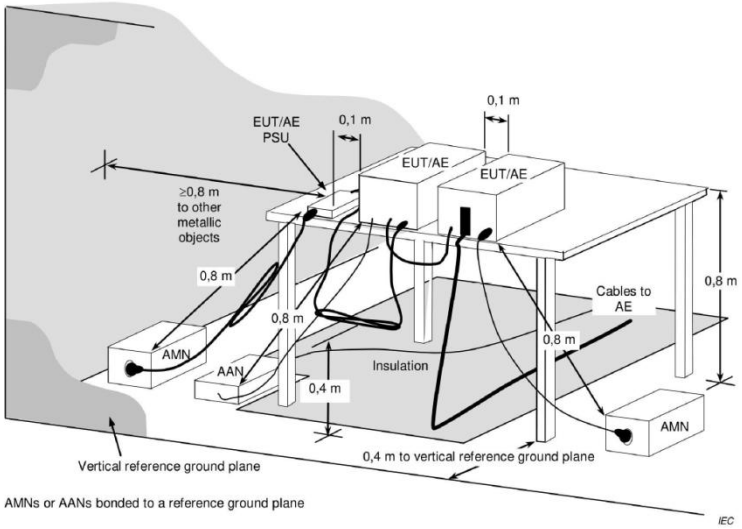
Worst-Case Configuration:
For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Test Setup

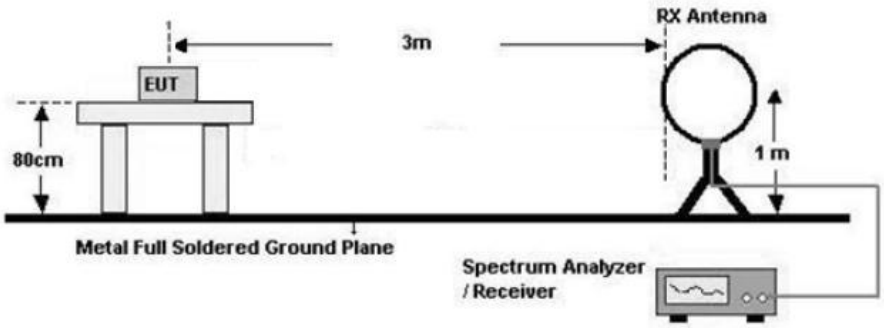
1) Conducted emission measurement:



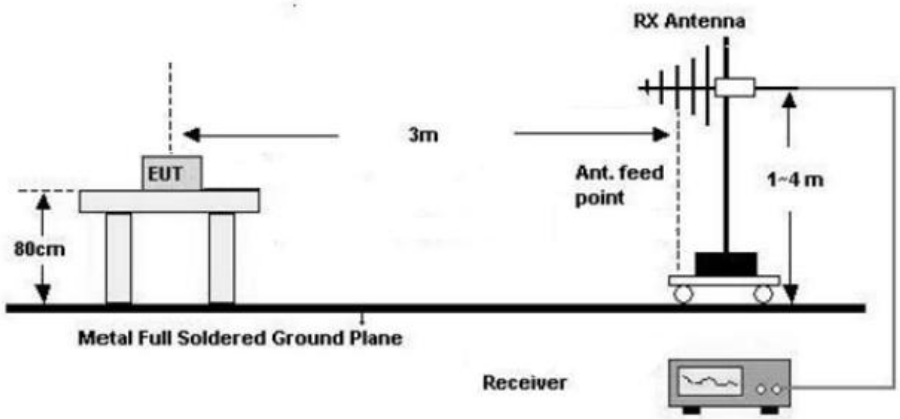
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

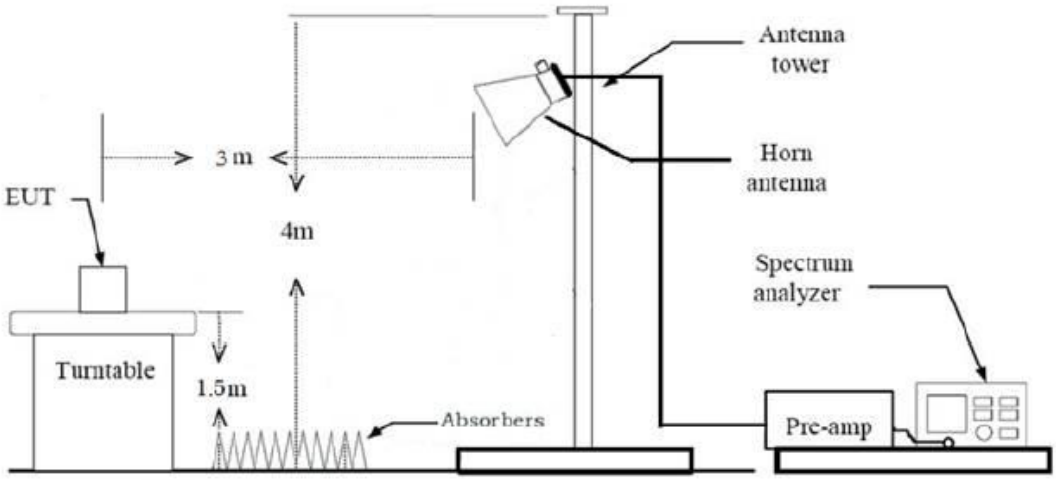
Below 30MHz (3m SAC)



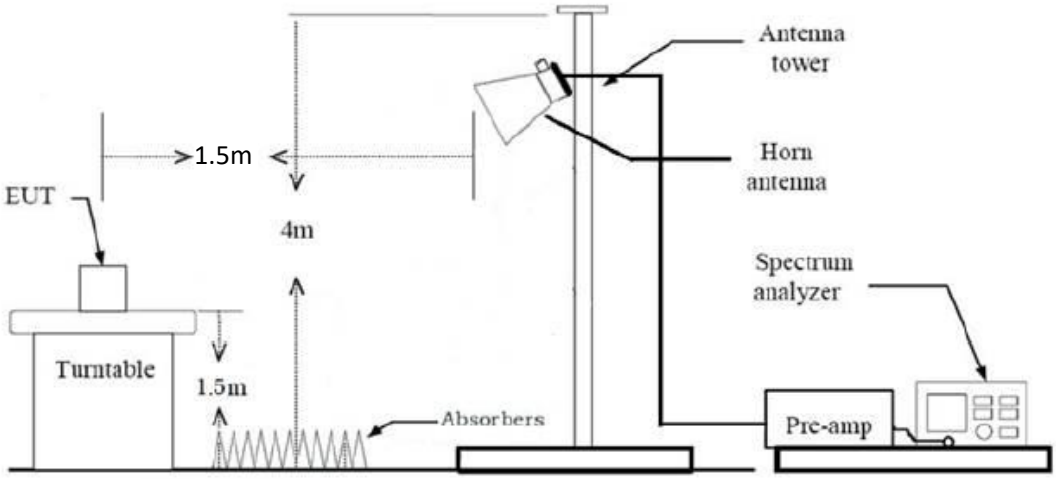
30MHz-1GHz (3m SAC)



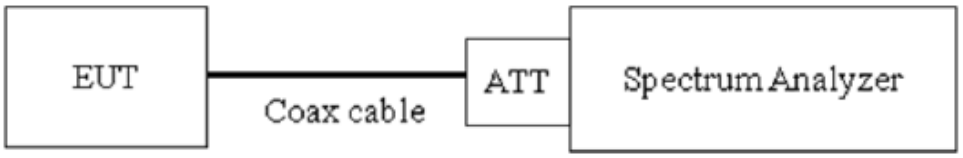
1GHz-18GHz(3m FAC)



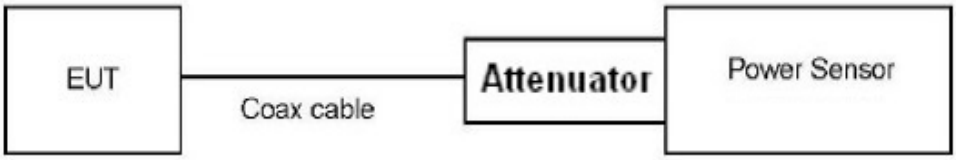
Above 18GHz (3m FAC)



3) RF Conducted Test



or



2.4 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).
2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested， and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
4. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or

Spectrum analyzer) through Attenuator and RF cable.

2. The cable assembly insertion loss of 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.5 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2020 Section 11.9.1.1
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12.1
Duty Cycle	ANSI C63.10-2020 Section 11.6

2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2023/7/3	2024/7/2
R&S	LISN	ENV216	101748	2023/8/1	2024/7/31
N/A	Coaxial Cable	NO.12	N/A	2023/7/3	2024/7/2
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2023/7/3	2024/7/2
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2023/7/3	2024/7/2
SONOMA	Low frequency	310	186014	2023/7/12	2024/7/11

INSTRUMENT	amplifier				
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2024/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2023/9/15	2024/9/14
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.10	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2023/7/12	2024/7/11
narda	6dB attenuator	603-06-1	N/A	2023/7/26	2024/7/25

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only

3.2 Limit

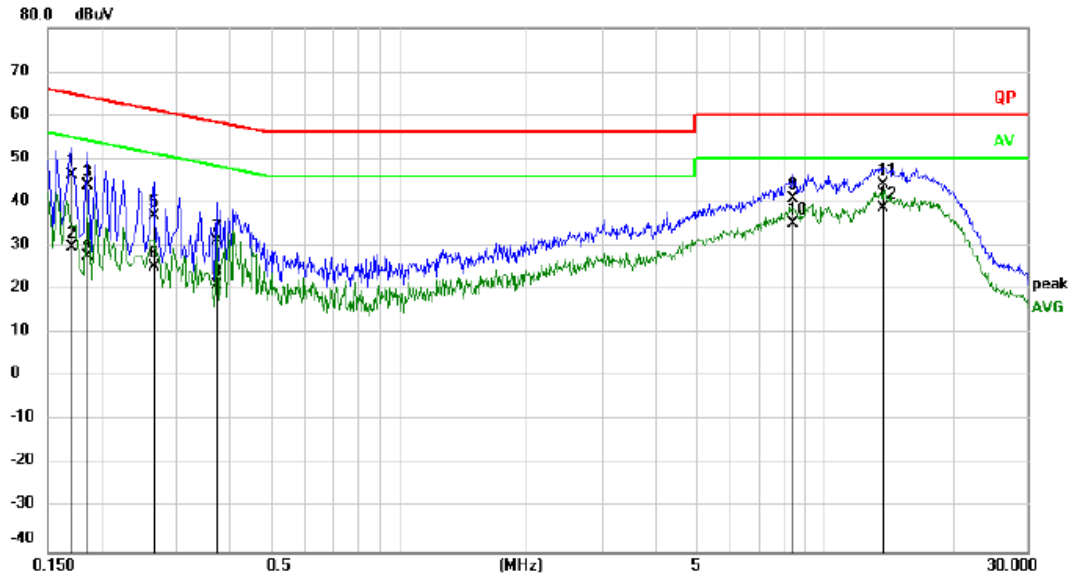
Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For 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.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	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)).

3.3 AC Line Conducted Emissions Test Data

Test Date:	2024-04-03	Test By:	Lirou Li
Environment condition:	Temperature: 24.8°C; Relative Humidity:56%; ATM Pressure: 101.2kPa		

Conducted Emission Measurement

File :RWAQ202400245 Data :#7 Date: 2024/4/3 Time: 18:04:20



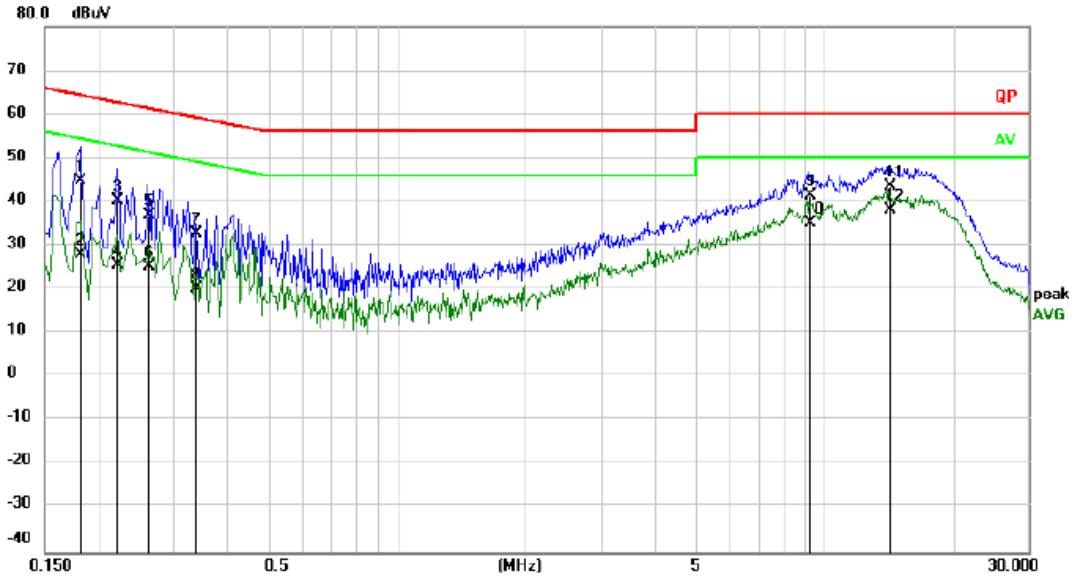
Limit: QP Phase: L1 Temperature: 24.8
Mode:transmitting Power: AC 120V/60Hz Humidity: 56 %
Note: BLE 1M H Channel Air Pressure: 1012 hpa

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	35.49	10.73	46.22	64.96	-18.74	QP	
2		0.1700	19.07	10.73	29.80	54.96	-25.16	AVG	
3		0.1860	33.28	10.67	43.95	64.21	-20.26	QP	
4		0.1860	16.89	10.67	27.56	54.21	-26.65	AVG	
5		0.2660	26.17	10.67	36.84	61.24	-24.40	QP	
6		0.2660	14.61	10.67	25.28	51.24	-25.96	AVG	
7		0.3740	20.56	10.77	31.33	58.41	-27.08	QP	
8		0.3740	10.43	10.77	21.20	48.41	-27.21	AVG	
9		8.4500	30.12	10.79	40.91	60.00	-19.09	QP	
10		8.4500	24.30	10.79	35.09	50.00	-14.91	AVG	
11		13.7380	33.51	10.54	44.05	60.00	-15.95	QP	
12	*	13.7380	28.21	10.54	38.75	50.00	-11.25	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

Conducted Emission Measurement

File :RWAQ202400245 Data :#8 Date: 2024/4/3 Time: 18:06:21



Limit: QP Phase: *N* Temperature: 24.8
Mode:transmitting Power: AC 120V/60Hz Humidity: 56 %
Note: BLE 1M H Channel Air Pressure: 1012 hpa

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1819	34.31	10.48	44.79	64.40	-19.61	QP	
2		0.1819	17.51	10.48	27.99	54.40	-26.41	AVG	
3		0.2220	29.93	10.44	40.37	62.74	-22.37	QP	
4		0.2220	15.01	10.44	25.45	52.74	-27.29	AVG	
5		0.2620	26.32	10.49	36.81	61.37	-24.56	QP	
6		0.2620	14.77	10.49	25.26	51.37	-26.11	AVG	
7		0.3379	22.14	10.58	32.72	59.25	-26.53	QP	
8		0.3379	9.47	10.58	20.05	49.25	-29.20	AVG	
9		9.2340	30.76	10.73	41.49	60.00	-18.51	QP	
10		9.2340	24.57	10.73	35.30	50.00	-14.70	AVG	
11		14.2060	32.62	10.86	43.48	60.00	-16.52	QP	
12	*	14.2060	27.42	10.86	38.28	50.00	-11.72	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

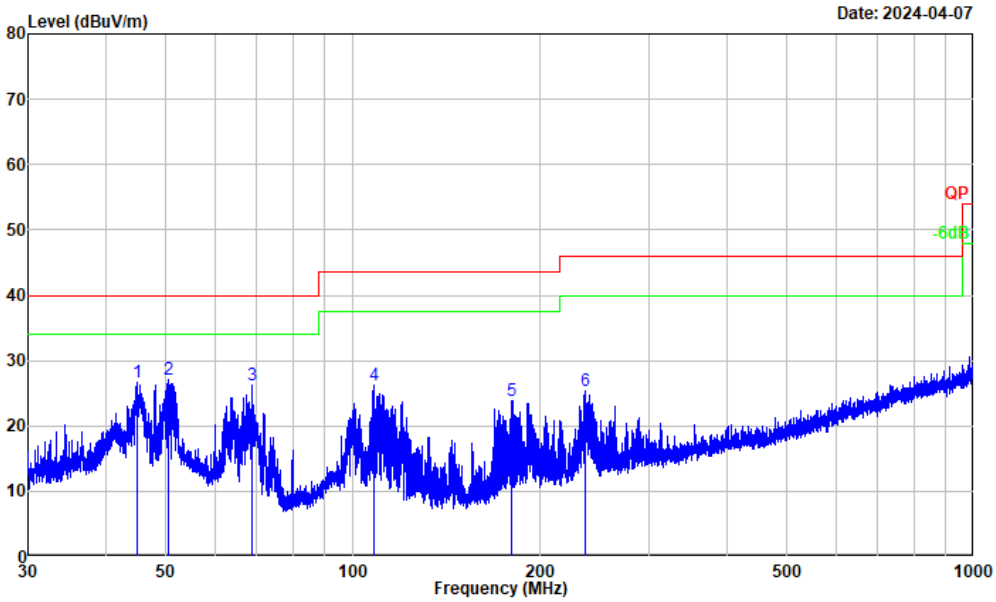
9 kHz-30MHz:

Test Date:	2024-04-07	**Test By:**	Bard Huang
Environment condition:	Temperature: 21.5°C; Relative Humidity:64%; ATM Pressure: 101.6kPa		

For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.

30MHz-1GHz:

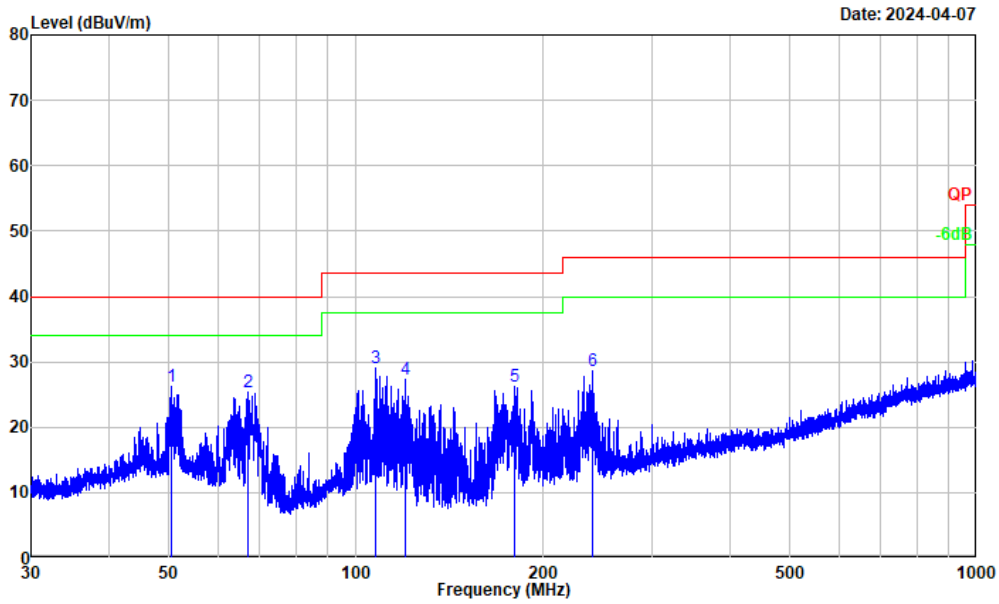
Test Date:	2024-04-07	Test By:	Bard Huang
Environment condition:	Temperature: 21.5°C; Relative Humidity:64%; ATM Pressure: 101.6kPa		



Project No. : RWAQ202400245
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 21.5℃/64%R.H./101.6kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : BLE 1M high channel

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	44.883	38.78	-12.21	26.57	40.00	-13.43	Peak
2	50.434	39.29	-12.17	27.12	40.00	-12.88	Peak
3	68.909	42.11	-15.88	26.23	40.00	-13.77	Peak
4	108.000	40.20	-14.04	26.16	43.50	-17.34	Peak
5	180.531	39.52	-15.66	23.86	43.50	-19.64	Peak
6	236.291	38.20	-12.79	25.41	46.00	-20.59	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain



Project No. : RWAQ202400245
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 21.5℃/64%R.H./101.6kPa
Tested by : Bard Huang
Polarization : vertical
Remark : BLE 1M high channel

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	50.368	38.36	-12.17	26.19	40.00	-13.81	Peak
2	67.032	40.32	-15.04	25.28	40.00	-14.72	Peak
3	107.858	43.13	-14.04	29.09	43.50	-14.41	Peak
4	119.982	43.10	-15.85	27.25	43.50	-16.25	Peak
5	180.136	42.00	-15.70	26.30	43.50	-17.20	Peak
6	240.260	41.29	-12.69	28.60	46.00	-17.40	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Remark:

Result = Reading + Factor

Factor = Antenna factor + Cable loss – Amplifier gain

Over Limit = Result – Limit

Above 1GHz:

Test Date:	2024-03-28	**Test By:**	Bard Huang
Environment condition:	Temperature: 21.5°C; Relative Humidity:64%; ATM Pressure: 101.6kPa		

Frequency (MHz)	**Reading level (dBμV)**	**Polar**	**Corrected Factor (dB/m)**	**Corrected Amplitude (dBμV/m)**	**Limit (dBμV/m)**	**Margin (dB)**	**Remark**
BLE 1M							
Low Channel							
2390.000	37.48	horizontal	8.25	45.73	54.00	-8.27	Average
2390.000	49.50	horizontal	8.25	57.75	74.00	-16.25	Peak
2390.000	37.36	vertical	8.25	45.61	54.00	-8.39	Average
2390.000	49.13	vertical	8.25	57.38	74.00	-16.62	Peak
4804.000	48.41	horizontal	0.21	48.62	74.00	-25.38	Peak
4804.000	48.30	vertical	0.21	48.51	74.00	-25.49	Peak
Middle Channel							
4880.000	47.88	horizontal	0.44	48.32	74.00	-25.68	Peak
4880.000	47.56	vertical	0.44	48.00	74.00	-26.00	Peak
High Channel							
2483.500	37.48	horizontal	8.25	45.73	54.00	-8.27	Average
2483.500	49.60	horizontal	8.25	57.85	74.00	-16.15	Peak
2483.500	37.38	vertical	8.25	45.63	54.00	-8.37	Average
2483.500	49.26	vertical	8.25	57.51	74.00	-16.49	Peak
4960.000	48.22	vertical	0.93	49.15	74.00	-24.85	Peak
4960.000	48.02	horizontal	0.93	48.95	74.00	-25.05	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

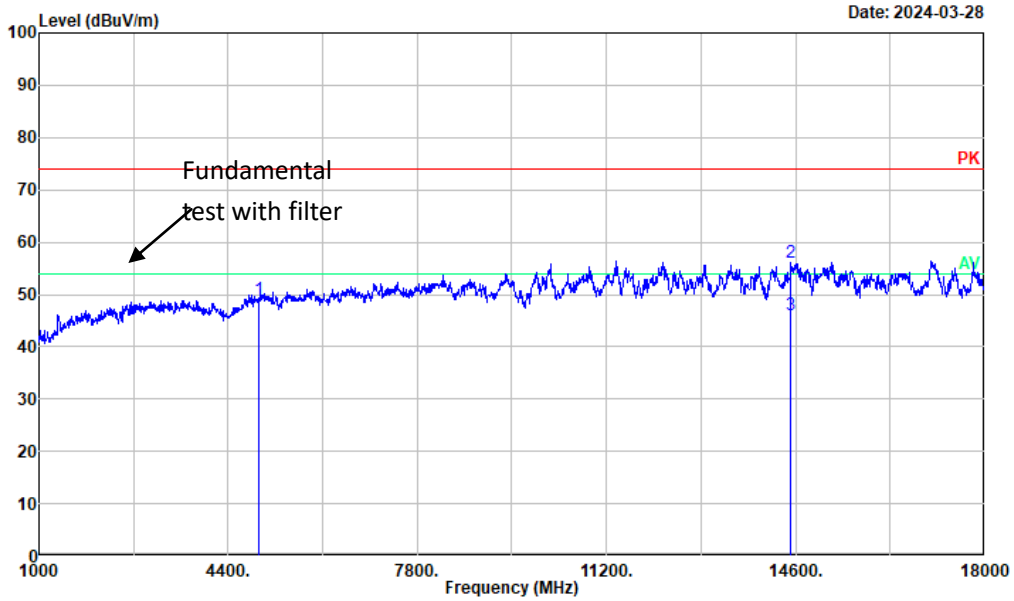
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

Test plot for example as below:

Mode:	BLE 1M	**Channel:**	2480MHz

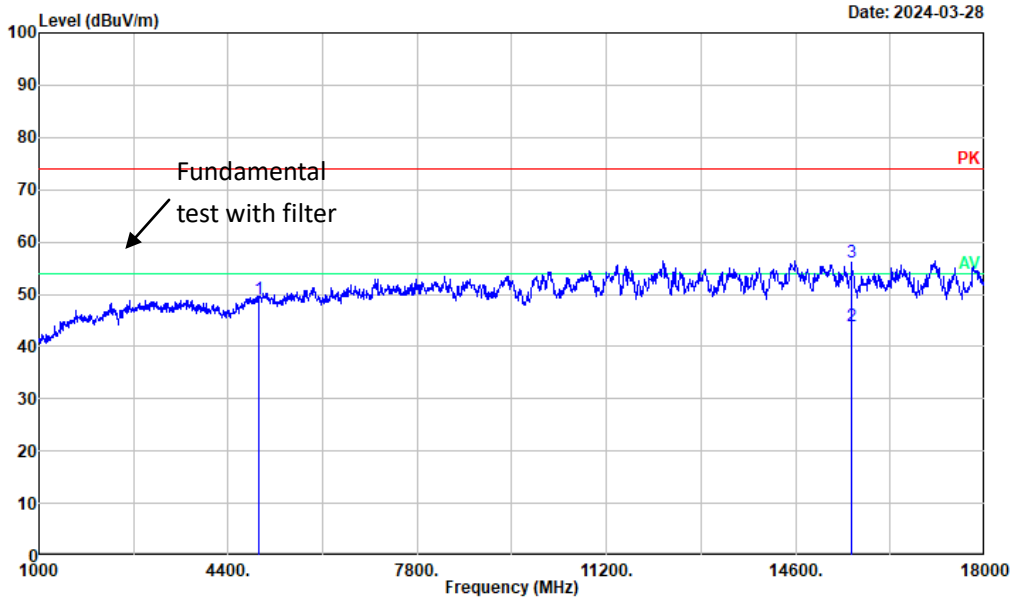


Project No. : RWAQ202400245
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 21.5℃/64%R.H./101.6kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : BLE 1M high channel

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	4960.000	48.02	0.93	48.95	74.00	-25.05	Peak
2	14513.260	46.57	9.45	56.02	74.00	-17.98	Peak
3	14513.260	36.71	9.45	46.16	54.00	-7.84	Average

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Mode:	BLE 1M	Channel:	2480MHz



Project No. : RWAQ202400245
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 21.5℃/64%R.H./101.6kPa
Tested by : Bard Huang
Polarization : vertical
Remark : BLE 1M high channel

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	4960.000	48.22	0.93	49.15	74.00	-24.85	Peak
2	15601.800	35.87	8.09	43.96	74.00	-30.04	QP
3	15601.800	47.90	8.09	55.99	74.00	-18.01	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

3.5 RF Conducted Test Data

Test Date:	2024-04-02	Test By:	Ryan Zhang
Environment condition:	Temperature: 26.7°C; Relative Humidity:57%; ATM Pressure: 100.6kPa		

3.5.1 6 dB Emission Bandwidth and 99% Occupied Bandwidth

Test Mode	Channel[MHz]	6dB BW [MHz]	99% OBW[MHz]	6dB BW Limit[MHz]	Verdict
BLE 1M	2402	0.700	1.032	0.5	pass
	2440	0.696	1.032	0.5	pass
	2480	0.688	1.032	0.5	pass

3.5.2 Maximum Conducted Peak Output Power

Test Mode	Channel [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE 1M	2402	5.66	30	Pass
	2440	6.70	30	Pass
	2480	7.64	30	Pass

3.5.3 Power Spectral Density

Test Mode	Channel [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE 1M	2402	-9.77	8	Pass
	2440	-8.69	8	Pass
	2480	-7.76	8	Pass

3.5.4 100 kHz Bandwidth of Frequency Band Edge

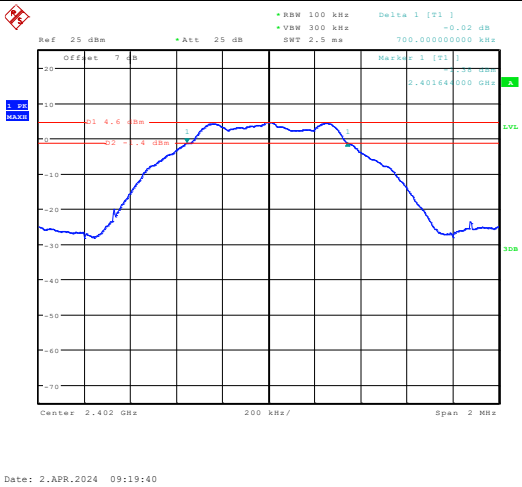
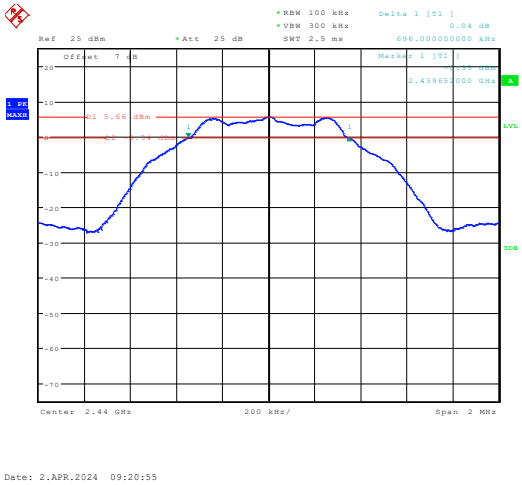
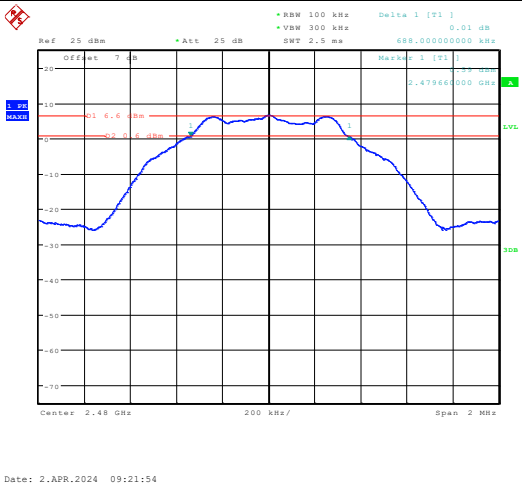
Test Mode	Channel [MHz]	Result	Limit	Verdict
BLE 1M	2402	Refer test plot	Refer test plot	Pass
	2480	Refer test plot	Refer test plot	Pass

3.5.5 Duty Cycle

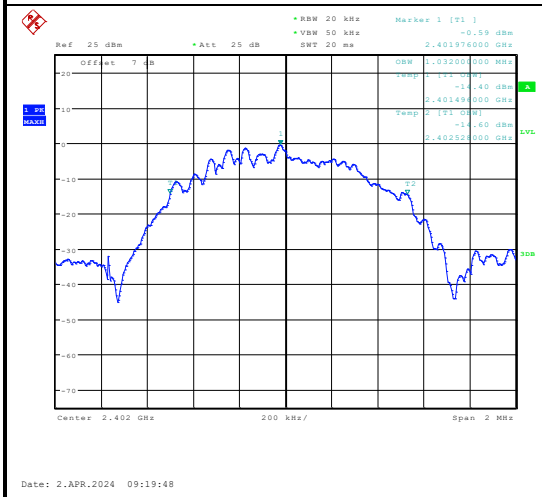
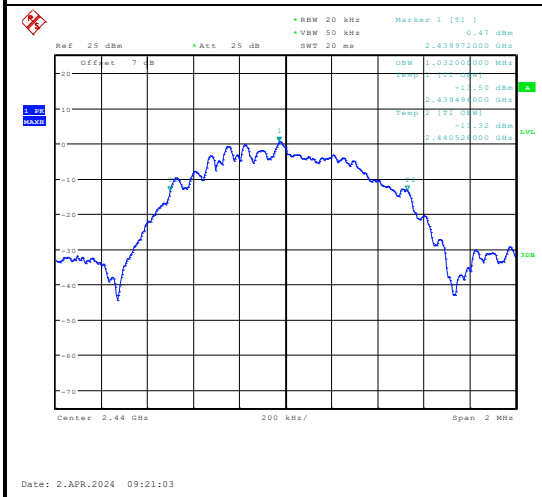
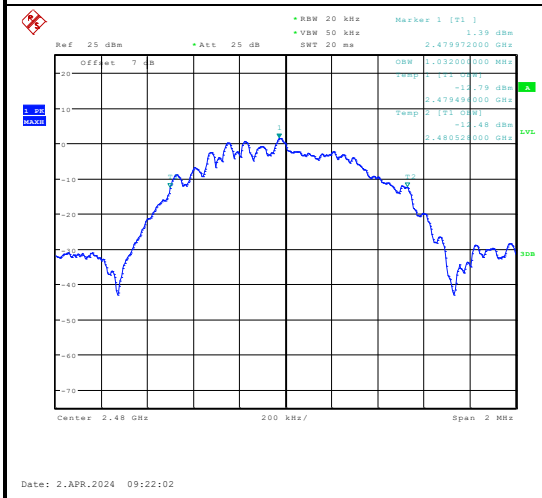
Test Mode	Channel [MHz]	Ton (ms)	Ton+off (ms)	Duty Cycle [%]	1/T [kHz]	VBW setting [Hz]
BLE 1M	2440	0.412	0.627	0.657	2.427	3000

Test Plots:

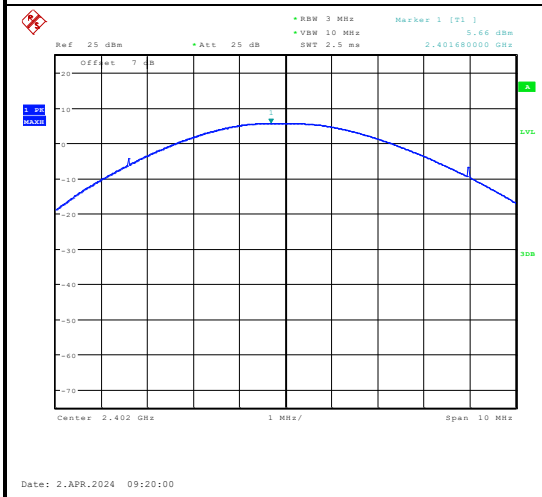
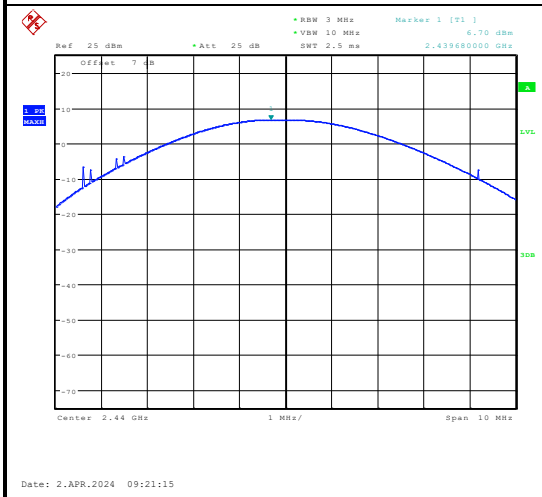
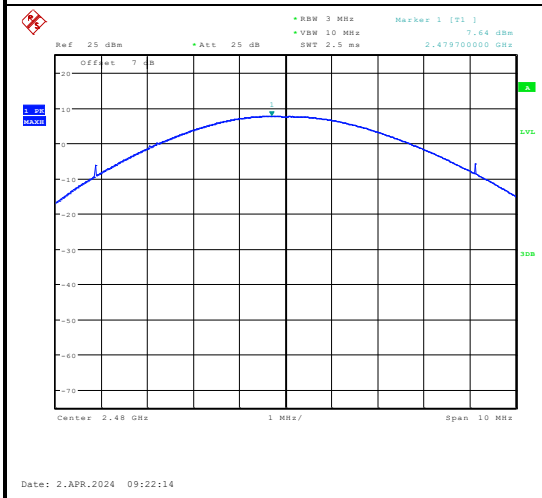
6 dB Emission Bandwidth:

BLE 1M	/
Lowest channel	/
	/
Middle channel	/
	/
High channel	/
	/

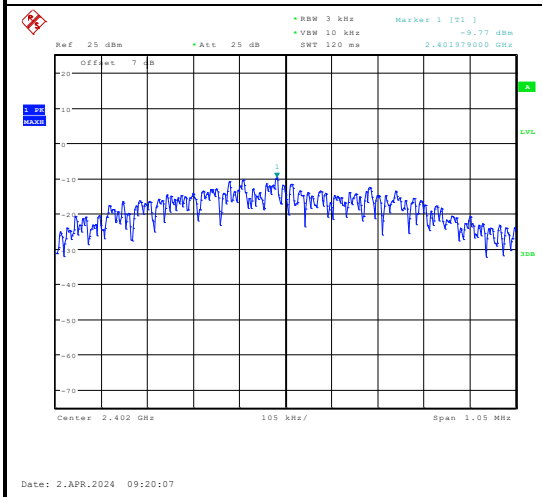
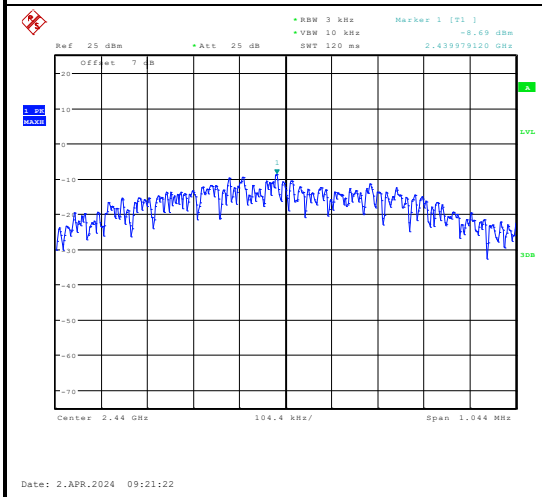
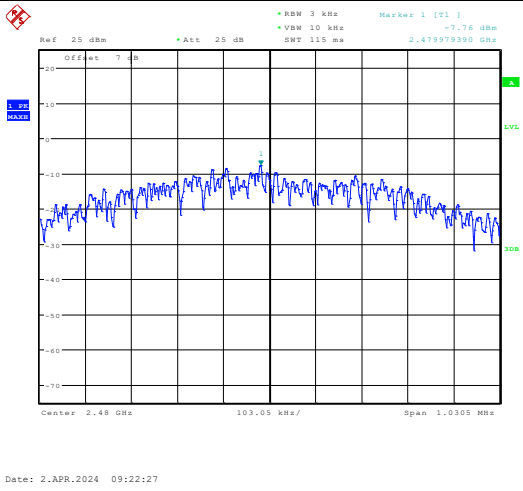
99% Occupied Bandwidth:

BLE 1M	/
Lowest channel	/
	/
Middle channel	/
	/
High channel	/
	/

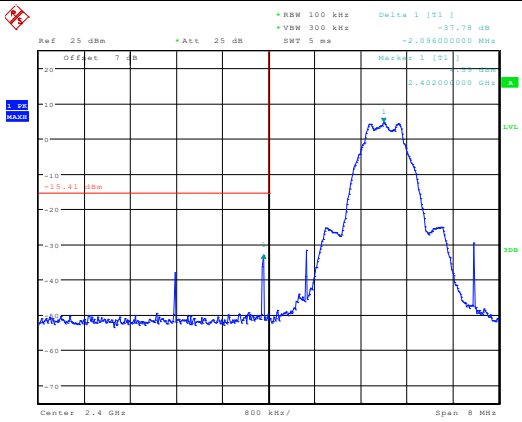
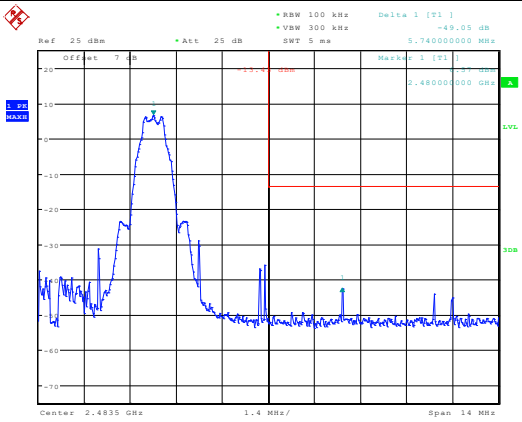
Maximum Conducted Peak Output Power:

BLE 1M	/
Lowest channel	/
	/
Middle channel	/
	/
High channel	/
	/

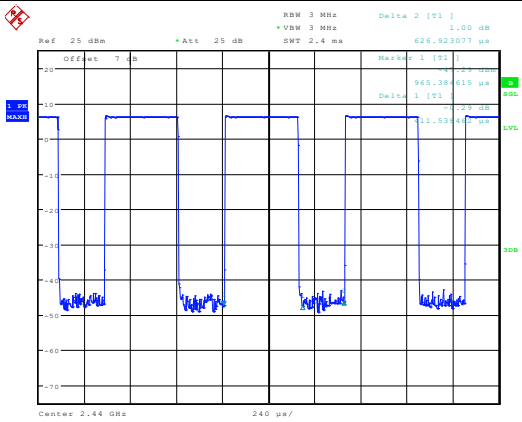
Power Spectral Density:

BLE 1M	/
Lowest channel	/
	/
Middle channel	/
	/
High channel	/
	/

100kHz Bandwidth of Frequency Band Edge:

BLE 1M	
Lowest channel	High channel
	

Duty cycle:

BLE 1M	/
	/

4 Test Setup Photo

Please refer to the attachment RWAQ202400245 Test Setup photo.

5 E.U.T Photo

Please refer to the attachment RWAQ202400245 External photo and RWAQ202400245 Internal photo.

---End of Report---