





TEST REPORT

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	(Peoples Republic Of)
Report Number:	SZ4231215-75913E-RF-00B
FCC ID:	Q5EDP58501
IC:	8922A-DP58501

Test Standard (s)

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247 ISSUE 3, AUGUST 2023

Sample Description

Product Type:	DMR Two Way Radio		
Model No.:	DP580		
Multiple Model(s) No.:	DP585		
Trade Mark:	KIRISUN		
Date Received:	2023/12/15		
Issue Date:	2024/04/07		
Test Result:	Pass▲		

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Black Chen

Black Chen RF Engineer

Approved By:

Nanal Wang

Nancy Wang RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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TR-EM-RF011

Page 1 of 62

Version 1.0 (2023/10/07)

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	4
GENERAL INFORMATION	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
Test Methodology Measurement Uncertainty	-
TEST FACILITY	
SYSTEM TEST CONFIGURATION	7
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONS	
EUT EXERCISE SOFTWARE	
DUTY CYCLE	
EXTERNAL I/O CABLE	
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	11
TEST EQUIPMENT LIST	12
-	
FCC§15.247 (I), §1.1307 (B) (1) &§2.1093 – RF EXPOSURE	
Applicable Standard	
RSS-102 § 6.3 – EXEMPTION LIMITS FOR ROUTINE EVALUATION- SAR EXEMPTION LIMITS	14
APPLICABLE STANDARD	
TEST RESULT:	
FCC §15.203 & RSS-GEN §6.8 – ANTENNA REQUIREMENT	
APPLICABLE STANDARD	
ANTENNA CONNECTOR CONSTRUCTION	
FCC § 15.207 (A) & RSS-GEN §8.8 AC LINE CONDUCTED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP EMI Test Receiver Setup	
Test Procedure	
Factor & Over Limit Calculation	19
TEST DATA	19
FCC §15.209, §15.205 & §15.247(D), RSS-GEN § 8.10 & RSS-247 § 5.5 – UNWANTED EMISSION FREQUENCIES AND RESTRICTED BANDS	
Applicable Standard	
EUT SEIUP EMI Test Receiver & Spectrum Analyzer Setup	
Test Procedure	24
FACTOR & OVER LIMIT/ MARGIN CALCULATION	
Test Results Summary	
ТЕЅТ DATA	

FCC §15.247(A) (2), RSS-GEN § 6.7 & RSS-247 § 5.2 (A) – 99% OCCUPIED BANDWIDTH & 6 DB EMISSON BANDWIDTH	44
STANDARD APPLICABLE	44
TEST PROCEDURE	
TEST DATA	45
FCC §15.247(B) (3), RSS-247 §5.4 (D) - PEAK OUTPUT POWER MEASUREMENT	50
APPLICABLE STANDARD	50
TEST PROCEDURE	
ТЕЅТ DATA	51
FCC §15.247(E), RSS-247 §5.2 (B) – POWER SPECTRAL DENSITY	54
APPLICABLE STANDARD	54
TEST PROCEDURE	
ТЕЅТ DATA	55
FCC §15.247(D) & RSS-247 §5.5 - 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	58
APPLICABLE STANDARD	58
Test Procedure	
TEST DATA	59
EUT PHOTOGRAPHS	61
TEST SETUP PHOTOGRAPHS	62

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
0	SZ4231215-75913E-RF-00B	Original Report	2024/04/07	

GENERAL INFORMATION

HVIN	DP58001, DP58501
FVIN	V5.3.6.28
Product	DMR Two Way Radio
Tested Model	DP580
Multiple Model(s)	DP585
Frequency Range	BLE: 2402-2480MHz
Maximum Conducted Peak Output Power	BLE:6.22dBm
Modulation Technique	BLE: GFSK
Antenna Specification [#]	0dBi (provided by the applicant)
Voltage Range	DC7.4V form battery or DC 12V from charger base
Sample serial number	DP580: 2FAG-10 for Conducted and Radiated Emissions Test DP585: 2FAG-5 for Conducted and Radiated Emissions Test 2FAG-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: TPQ-236A120100UW01 Input: AC 100-240V, 50/60Hz, 0.4A Output: DC 12.0V, 1.0A
	ectrically identical with the test model except for screen and keyboard. Please nore detail, which was provided by manufacturer.

Product Description for Equipment under Test (EUT)

Objective

This report is in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209, 15.247 rules and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 Issue 3, August 2023 of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance ANSI C63.10-2013, RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 Issue 3, August 2023.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Parameter			Uncertainty	
Occupied Channel Bandwidth		andwidth	$\pm 5\%$	
RF output power, conducted		onducted	0.72 dB(k=2, 95% level of confidence)	
AC Power Lines Cond	ucted	9kHz~150 kHz	3.94dB(k=2, 95% level of confidence)	
Emissions		150 kHz ~30MHz	3.84dB(k=2, 95% level of confidence)	
		9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)	
	30MHz~200MHz (Horizontal)		4.48dB(k=2, 95% level of confidence)	
	30MHz~200MHz (Vertical)		4.55dB(k=2, 95% level of confidence)	
Radiated Emissions	200MHz~1000MHz (Horizontal)		4.85dB(k=2, 95% level of confidence)	
Radiated Emissions	200MHz~1000MHz (Vertical)		5.05dB(k=2, 95% level of confidence)	
	1GHz - 6GHz		5.35dB(k=2, 95% level of confidence)	
	6GHz - 18GHz		5.44dB(k=2, 95% level of confidence)	
	18GHz - 40GHz		5.16dB(k=2, 95% level of confidence)	
Temperature		9	±1°C	
Humidity			$\pm 1\%$	
Supply voltages		ges	$\pm 0.4\%$	

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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

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. : 715558, the FCC Designation No. : CN5045.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

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

EUT was tested with Channel 0, 19 and 39.

Per BT report test, Mode DP580 was the worst for Conducted Emissions Test, Mode DP585 was worst for Radiation Spurious Emissions Below 1GHz Test.

Equipment Modifications

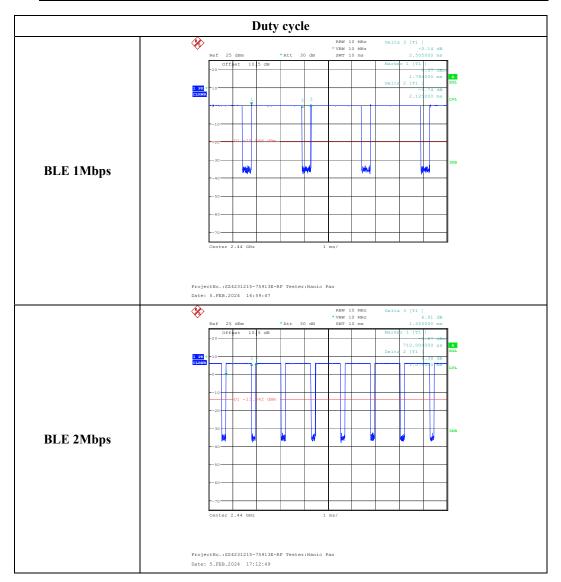
No modification was made to the EUT tested.

EUT Exercise Software

"FCC_v2.24.exe"[#] software was used to test and power level is $5^{#}$. The software and power level was provided by the applicant.

Duty cycle

Test Modes	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (kHz)	VBW Setting (kHz)
BLE 1Mbps	2.125	2.505	84.83	0.471	0.5
BLE 2Mbps	1.075	1.255	85.66	0.930	1



TR-EM-RF011

Page 8 of 62

Version 1.0 (2023/10/07)

Support Equipment List and Details

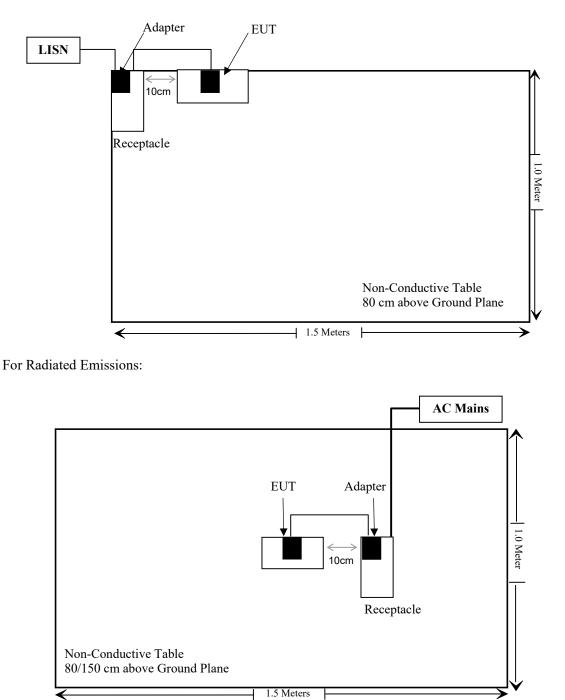
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From/Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For Conducted Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	RSS Rules	Description of Test	Result
§2.1093	RSS-102 § 6.3	Exemption Limits For Routine Evaluation- SAR Exemption Limits	Compliant
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
§15.207 (a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	RSS-GEN § 8.10 & RSS-247 § 5.5	Spurious Emissions	Compliant
§15.247 (a)(2)	RSS- Gen§6.7 RSS-247 § 5.2 (a)	99% Occupied Bandwidth & 6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	RSS-247 § 5.4(d)	Maximum Conducted Output Power	Compliant
§15.247(e)	RSS-247 § 5.2 (b)	Power Spectral Density	Compliant
§15.247(d)	RSS-247 § 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliant

Version 1.0 (2023/10/07)

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date							
	Conducted Emission Test											
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2023/02/08	2024/02/07							
Rohde & Schwarz	LISN	ENV216	101613	2023/02/08	2024/02/07							
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2023/08/03	2024/08/02							
Unknown	CE Cable	CE Cable	UF A210B-1- 0720-504504	2023/08/03	2024/08/02							
Audix	EMI Test software	E3	191218	NCR	NCR							
		adiated Emissio	n Test									
R&S	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15							
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07							
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2024/07/19							
ETS	Passive Loop Antenna	6512	29604	2023/07/07	2024/07/06							
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02							
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02							
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR							
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2023/04/18	2024/04/17							
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28							
Schwarzbeck	Horn Anetenna	BBHA9120D(1201) 1143		2023/07/26	2024/07/25							
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07							
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07							
Unknown	RF Cable	XH750A-N	J-10M	2023/10/08	2024/10/07							
SNSD	2.4G Band Reject filter	BSF2402- 2480MN- 0898-001	2.4G filter	2023/08/03	2024/08/02							
Audix	EMI Test software	E3	191218(V9)	NCR	NCR							
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/03	2024/08/02							
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17							
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02							
		RF Conducted	Test									
Rohde & Schwarz SPECTRUM ANALYZER		FSU26	200982	2023/12/18	2024/12/17							
MARCONI	10dB Attenuator	6534/3	2942	2023/07/04	2024/07/03							
Micro-Tronics	RF Cable	8082135	W1113	2023/07/04	2024/07/03							

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency (MHz)	Max tune-up conducted power [#] (dBm)	Max tune-up conducted power [#] (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2402-2480	6.5	4.47	25	0.3	3	Yes



Result: Compliant

TR-EM-RF011

Page 13 of 62

Version 1.0 (2023/10/07)

RSS-102 § 6.3 –EXEMPTION LIMITS FOR ROUTINE EVALUATION- SAR EXEMPTION LIMITS

Applicable Standard

According to RSS-102 Issue 6 §6.3, Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

The exemption limits in table 11 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.

For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.

For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 11 Table 11 are multiplied by a factor of 5.

When the operating frequency of the device is between two frequencies located in table 11, linear interpolation shall be applied for the applicable separation distance. If the separation distance of the device is between two distances located in table 11, linear interpolation may be applied for the applicable frequency. Alternatively, the limit corresponding to the smaller distance may be employed. For example, in case of a 7 mm separation distance, either use the exception value for a 5 mm separation distance or interpolate between the limits corresponding to 5 mm and 10 mm separation distances.

For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1mW, regardless of frequency.

The SAR levels from exempted transmitters shall be included in the compliance assessment and the determination of the TER. Detailed guidance is included in sections 7.1.8 and 8.2.2.1.

Test Result:

For worst case:

For BLE mode:

The higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power:



The minimum distance at the far end is 25mm, so the exemption limit of 2480MHz is P= 55.83mW.

The maximum tune up conducted power is 6.5dBm

The antenna gain# is 0dBi

So the maximum output power is 6.5dBm (4.47mW), which less than 55.83mW@2480MHz exemption limit

So the stand-alone SAR test is not required.

FCC §15.203 & RSS-GEN §6.8 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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. 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.

According to FCC § 15.203, the applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one internal antenna arrangement which was permanently attached and the maximum antenna gain[#] is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range		
Wire	0dBi	50Ω	2.4~2.5GHz		

Result: Compliant

FCC § 15.207 (a) & RSS-GEN §8.8 AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207 (a) & RSS-GEN §8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 - AC Power Lines Conducted Emission Limits						
Frequency range	Conducted limit (dBµV)					
(MHz)	Quasi-Peak	Average				
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹				
0.5 - 5	56	46				
5 - 30	60	50				

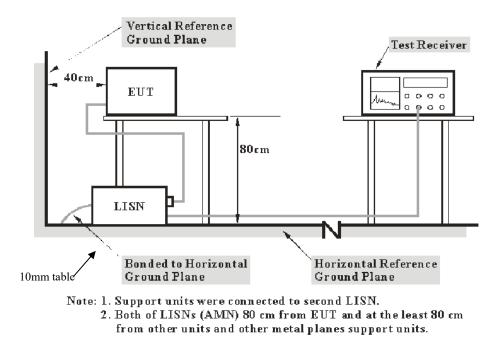
Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 & RSS-247/RSS-Gen limits.

The spacing between the peripherals was 10 cm.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W			
150 kHz – 30 MHz	9 kHz			

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

Environmental Conditions

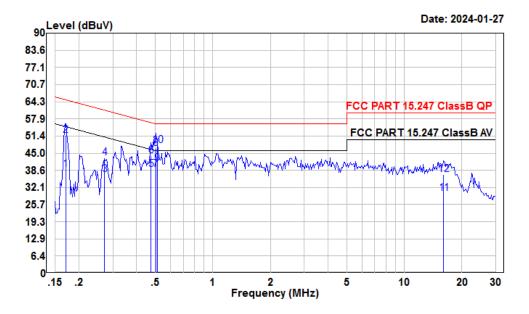
Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101 kPa

The testing was performed by Macy Shi on 2024-01-27.

EUT operation mode: Transmitting (Maximum output mode, BLE 2Mbps low channel)

Model: DP580

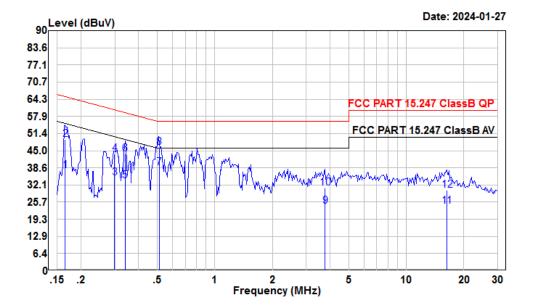
AC 120V/60 Hz, Line



Condition	:	Line
Project	:	SZ4231215-75913E-RF
Tester	:	Macy shi
Note	:	BLE 2M

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.17	18.12	38.87	10.60	10.15	54.94	-16.07	Average
2	0.17	30.79	51.54	10.60	10.15	64.94	-13.40	QP
3	0.27	16.10	36.90	10.63	10.17	51.07	-14.17	Average
4	0.27	22.32	43.12	10.63	10.17	61.07	-17.95	QP
5	0.48	18.01	38.87	10.69	10.17	46.41	-7.54	Average
6	0.48	23.21	44.07	10.69	10.17	56.41	-12.34	QP
7	0.50	18.17	39.02	10.70	10.15	46.00	-6.98	Average
8	0.50	25.87	46.72	10.70	10.15	56.00	-9.28	QP
9	0.51	20.27	41.13	10.70	10.16	46.00	-4.87	Average
10	0.51	26.90	47.76	10.70	10.16	56.00	-8.24	QP
11	16.06	9.41	29.98	10.47	10.10	50.00	-20.02	Average
12	16.06	16.32	36.89	10.47	10.10	60.00	-23.11	QP

AC 120V/60 Hz, Neutral



Condition:	Neutral
Project :	SZ4231215-75913E-RF
Tester :	Macy shi
Note :	BLE 2M

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.17	16.93	37.65	10.57	10.15	55.21	-17.56	Average
2	0.17	28.64	49.36	10.57	10.15	65.21	-15.85	QP
3	0.30	13.86	34.72	10.74	10.12	50.28	-15.56	Average
4	0.30	23.00	43.86	10.74	10.12	60.28	-16.42	QP
5	0.34	12.72	33.63	10.76	10.15	49.22	-15.59	Average
6	0.34	22.81	43.72	10.76	10.15	59.22	-15.50	QP
7	0.51	17.65	38.59	10.78	10.16	46.00	-7.41	Average
8	0.51	25.38	46.32	10.78	10.16	56.00	-9.68	QP
9	3.76	3.29	24.25	10.70	10.26	46.00	-21.75	Average
10	3.76	9.96	30.92	10.70	10.26	56.00	-25.08	QP
11	16.23	3.41	24.09	10.58	10.10	50.00	-25.91	Average
12	16.23	9.61	30.29	10.58	10.10	60.00	-29.71	QP

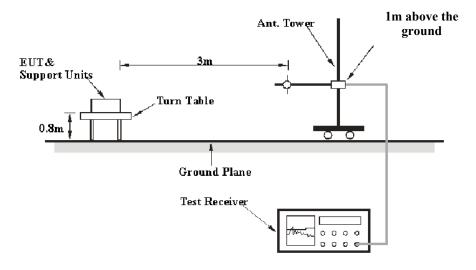
FCC §15.209, §15.205 & §15.247(D), RSS-GEN § 8.10 & RSS-247 § 5.5 – UNWANTED EMISSION FREQUENCIES AND RESTRICTED BANDS

Applicable Standard

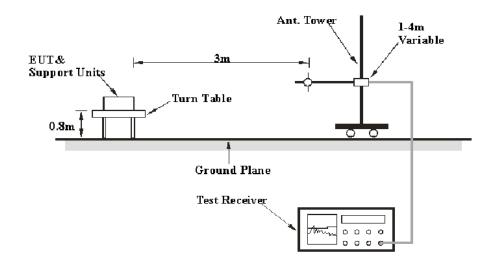
FCC §15.247 (d); §15.209; §15.205; RSS-247 §5.5, RSS-GEN §8.10.

EUT Setup

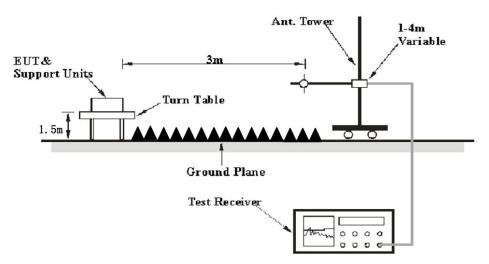
9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.205, FCC 15.209, FCC 15.247, RSS-Gen and RSS-247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	
9 kHz – 150 kHz	/	/	200 Hz	QP	
	300 Hz	1 kHz	/	РК	
150 kHz – 30 MHz	/	/	9 kHz	QP	
	10 kHz	30 kHz	/	РК	
20 MII.a 1000 MII.a	/	/	120 kHz	QP	
30 MHz – 1000 MHz	100 kHz	300 kHz	/	РК	

1-25 GHz:

Frequency Range	Frequency Range Duty cycle RBW		Video B/W	
РК	Any	1MHz	3 MHz	
AV	>98%	1MHz	10 Hz	
Av	<98%	1MHz	≥1/T	

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/ Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Results Summary

According to the data in the following table, the EUT complied with the FCC 15.205, FCC 15.209, FCC 15.247, RSS-Gen and RSS-247.

Test Data

Environmental Conditions

Temperature:	22~25.1°C
Relative Humidity:	51~55 %
ATM Pressure:	101 kPa

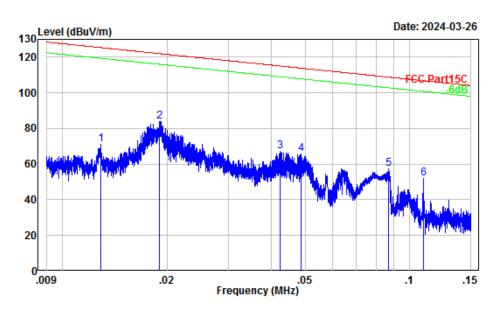
The testing was performed by Warren Huang on 2024-03-26 for below 1GHz and Tyler Wu, Dylan Yang from 2024-01-29 to 2024-03-11 for above 1GHz.

EUT operation mode: Transmitting

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case as below:

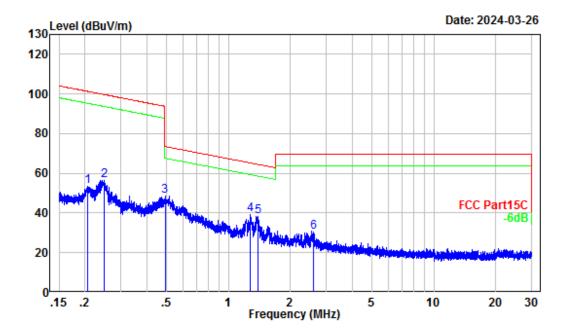
9 kHz-30MHz (Maximum output mode, BLE 2Mbps low channel):

Parallel (worst case)



Site	:	Chamber A
Conditio	on :	Зm
Project	Number:	SZ4231215-75913E-RF
Note	:	BLE
Tester	:	Warren Huang

	Freq	Factor		Level			Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	52.41	18.56	70.97	125.38	-54.41	Peak
2	0.02	50.52	33.40	83.92	122.01	-38.09	Peak
3	0.04	43.32	23.92	67.24	115.05	-47.81	Peak
4	0.05	41.44	24.12	65.56	113.88	-48.32	Peak
5	0.09	35.92	21.53	57.45	108.82	-51.37	Peak
6	0.11	33.64	18.20	51.84	106.81	-54.97	Peak

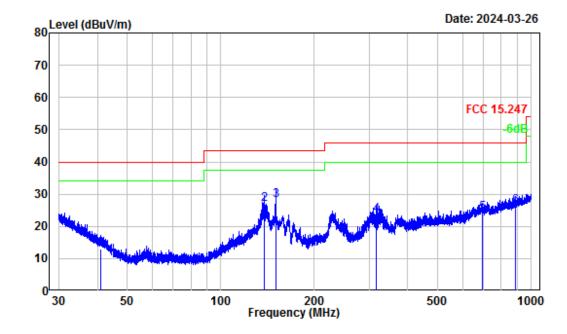


Site :	Chamber A
Condition :	Зm
Project Number:	SZ4231215-75913E-RF
Note :	BLE
Tester :	Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	28.73	24.87	53.60	101.28	-47.68	Peak
2	0.25	27.29	29.23	56.52	99.73	-43.21	Peak
3	0.49	21.07	27.36	48.43	73.77	-25.34	Peak
4	1.28	14.05	25.33	39.38	65.27	-25.89	Peak
5	1.39	13.49	24.92	38.41	64.53	-26.12	Peak
6	2.60	9.04	21.27	30.31	69.54	-39.23	Peak

30MHz-1GHz (Maximum output mode, BLE 2Mbps low channel):

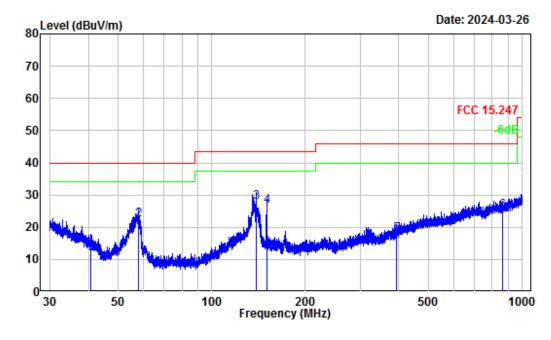




Site	:	Chamber A
Condition	:	3m Horizontal
Project Num	ber:	SZ4231215-75913E-RF
Note	:	BLE
Tester	:	Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.02	-11.05	24.16	13.11	40.00	-26.89	QP
2	138.45	-10.66	37.50	26.84	43.50	-16.66	QP
3	150.01	-11.35	39.49	28.14	43.50	-15.36	QP
4	316.17	-9.92	33.41	23.49	46.00	-22.51	QP
5	697.16	-1.56	25.77	24.21	46.00	-21.79	QP
6	891.12	0.86	25.45	26.31	46.00	-19.69	QP





Site	:	Chamber A
Condition	:	3m Vertical
Project Number	r:	SZ4231215-75913E-RF
Note	:	BLE
Tester	:	Warren Huang

					Limit		
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.65	-12.26	25.95	13.69	40.00	-26.31	QP
2	57.97	-17.57	39.95	22.38	40.00	-17.62	QP
3	139.18	-11.28	39.06	27.78	43.50	-15.72	QP
4	150.01	-11.65	38.30	26.65	43.50	-16.85	QP
5	392.44	-7.95	25.81	17.86	46.00	-28.14	QP
6	864.19	0.09	24.96	25.05	46.00	-20.95	QP

Report No.: SZ4231215-75913E-RF-00B

1-25 GHz(DP580 was worst case):

Engguaray	Rece	iver	Polar	Factor	Corrected	Limit	Marti			
Frequency (MHz)	Reading (dBµV)	PK/Ave	(H/V)	(dB/m)	Amplitude (dBµV/m)	(dBµV/m)	Margin (dB)			
			BLE 1M							
Low Channel 2402MHz										
4804.00	55.06	РК	Н	2.42	57.48	74	-16.52			
4804.00	48.55	AV	Н	2.42	50.97	54	-3.03			
4804.00	54.37	РК	V	2.42	56.79	74	-17.21			
4804.00	47.18	AV	V	2.42	49.60	54	-4.40			
		Mid	dle Channel 2440M	[Hz						
4880.00	53.72	PK	Н	2.56	56.28	74	-17.72			
4880.00	48.19	AV	Н	2.56	50.75	54	-3.25			
4880.00	53.26	РК	V	2.56	55.82	74	-18.18			
4880.00	47.05	AV	V	2.56	49.61	54	-4.39			
		Hig	gh Channel 2480MI	Hz						
4960.00	51.61	РК	Н	2.68	54.29	74	-19.71			
4960.00	44.32	AV	Н	2.68	47.00	54	-7.00			
4960.00	50.37	РК	V	2.68	53.05	74	-20.95			
4960.00	43.08	AV	V	2.68	45.76	54	-8.24			
			BLE 2M							
		Lo	w Channel 2402MH	Ηz						
4804.00	53.02	РК	Н	2.42	55.44	74	-18.56			
4804.00	45.54	AV	Н	2.42	47.96	54	-6.04			
4804.00	53.75	РК	V	2.42	56.17	74	-17.83			
4804.00	45.79	AV	V	2.42	48.21	54	-5.79			
		Mid	dle Channel 2440M	IHz						
4880.00	55.41	РК	Н	2.56	57.97	74	-16.03			
4880.00	48.36	AV	Н	2.56	50.92	54	-3.08			
4880.00	54.97	РК	V	2.56	57.53	74	-16.47			
4880.00	47.18	AV	V	2.56	49.74	54	-4.26			
		Hig	gh Channel 2480MI	Hz						
4960.00	54.43	РК	Н	2.68	57.11	74	-16.89			
4960.00	47.32	AV	Н	2.68	50.00	54	-4.00			
4960.00	53.75	РК	V	2.68	56.43	74	-17.57			
4960.00	46.41	AV	V	2.68	49.09	54	-4.91			

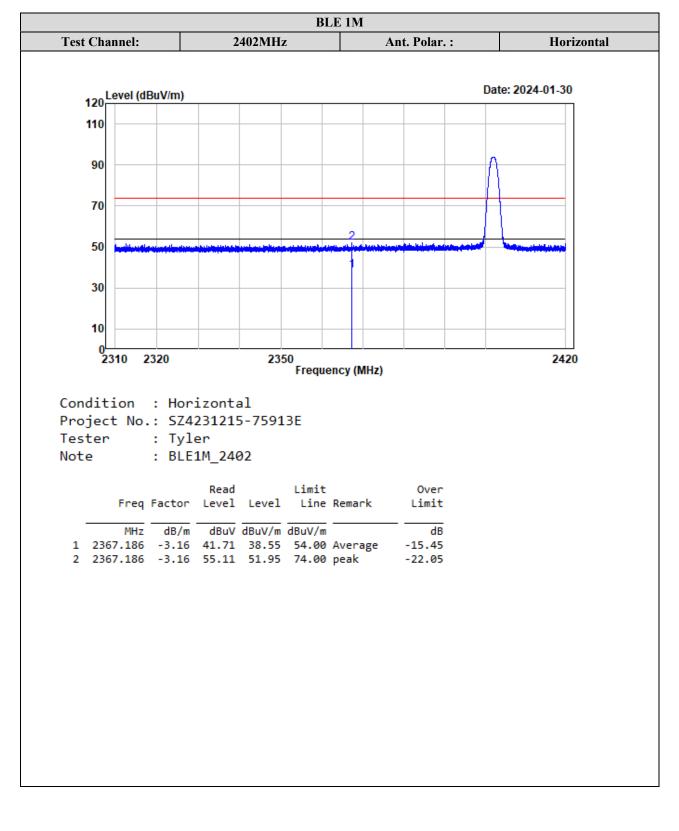
Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Corrected. Amplitude - Limit The other amplique amission which is in the poice floor level was not record.

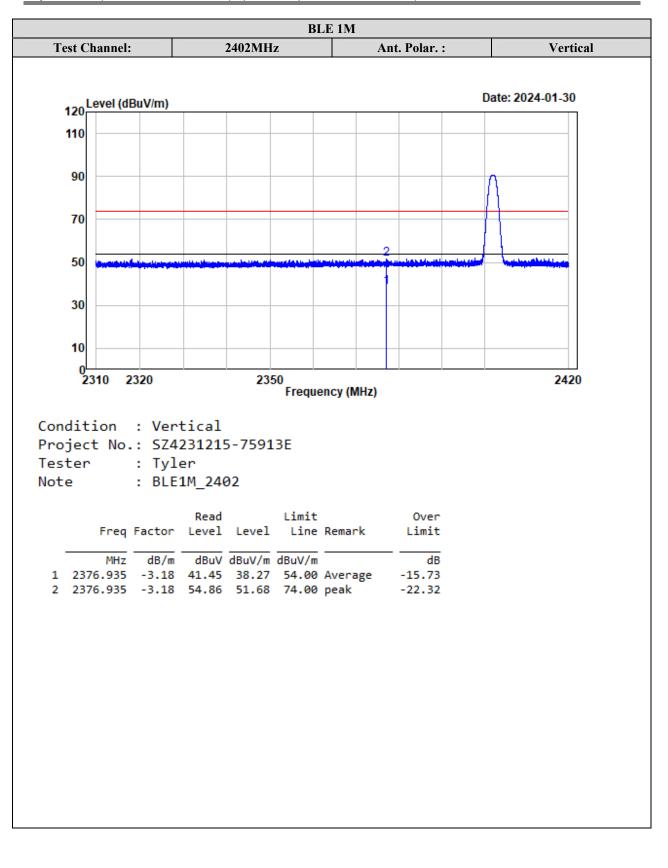
The other spurious emission which is in the noise floor level was not recorded.

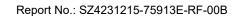
Report No.: SZ4231215-75913E-RF-00B

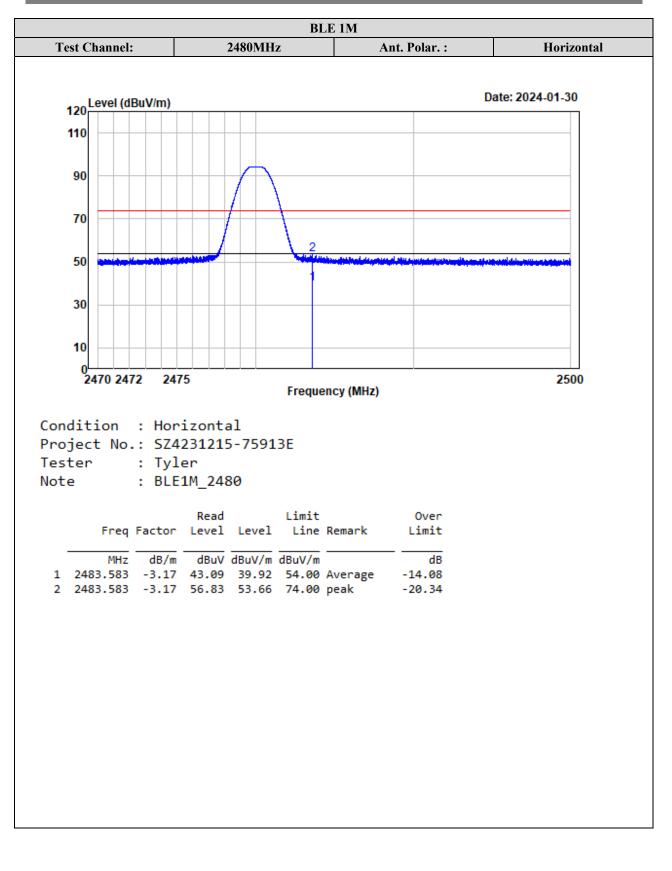


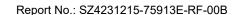


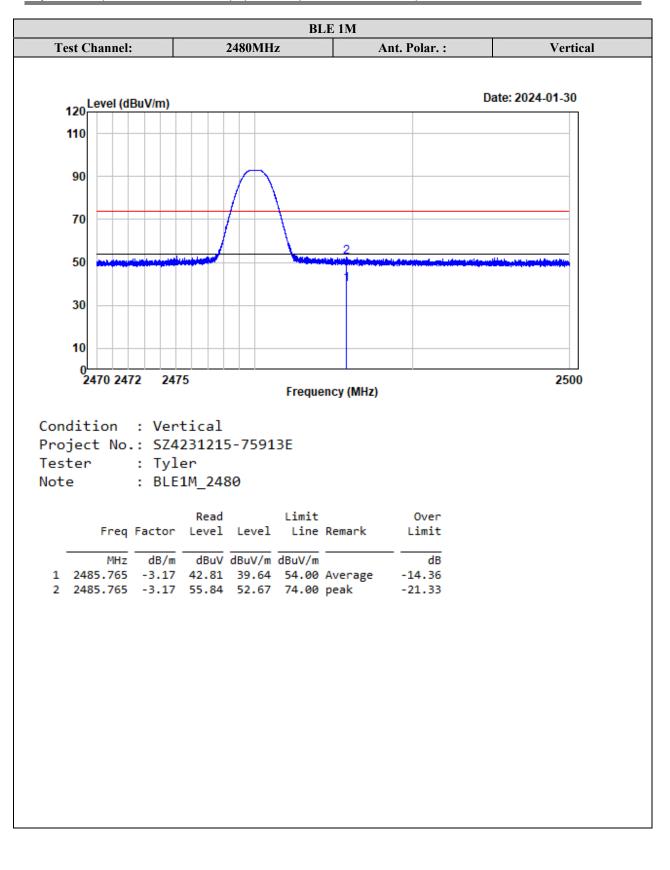


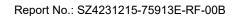


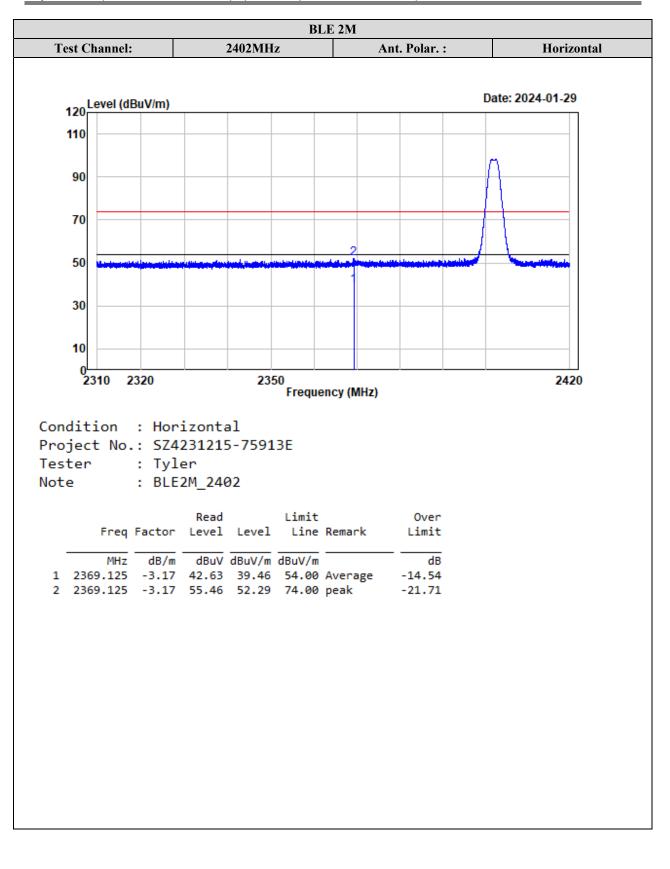




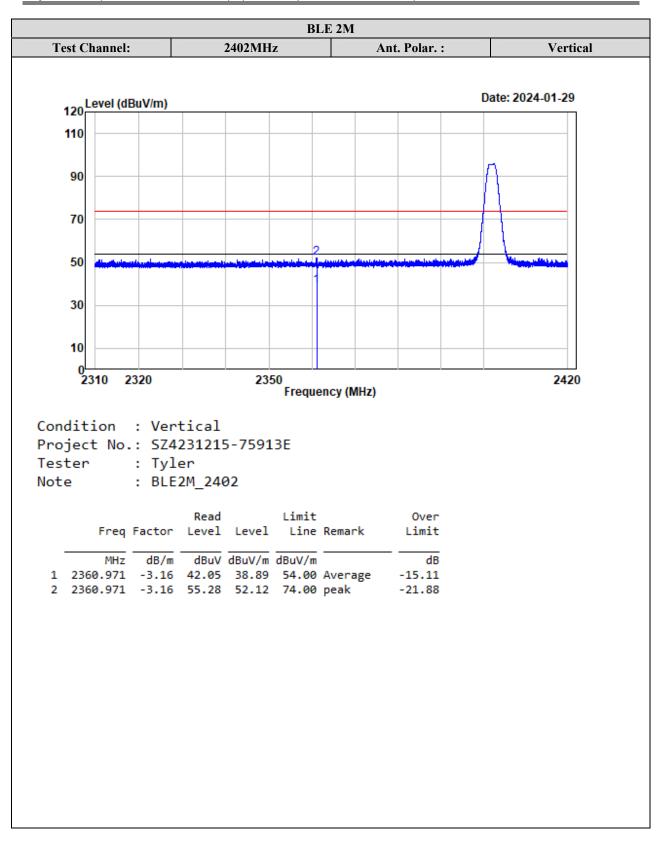




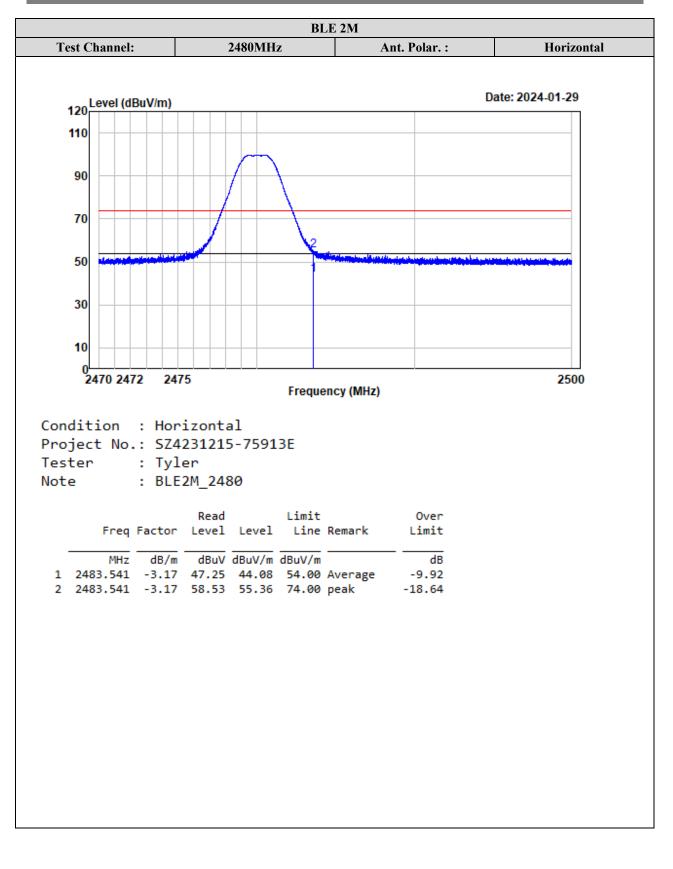


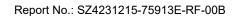


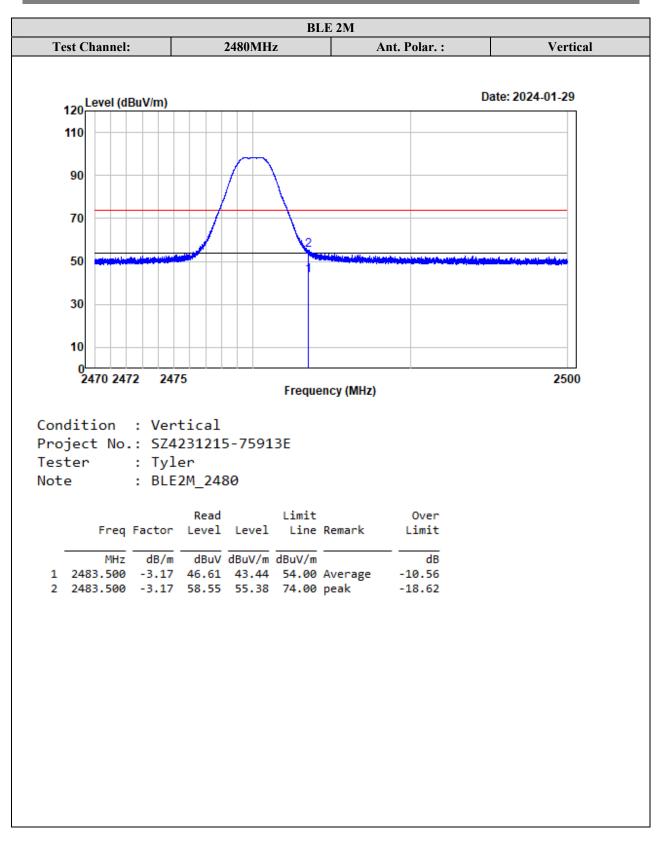






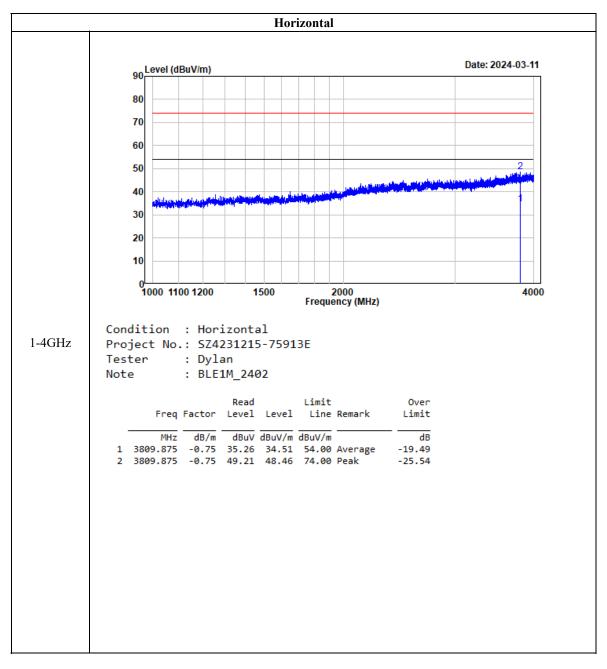




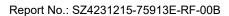


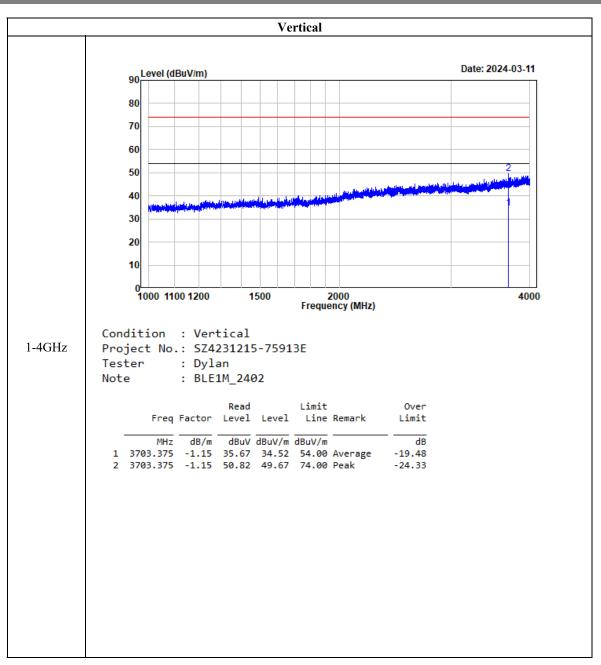
TR-EM-RF011

Listed with the worst harmonic margin test plot(BLE 1M Mode Low channel):

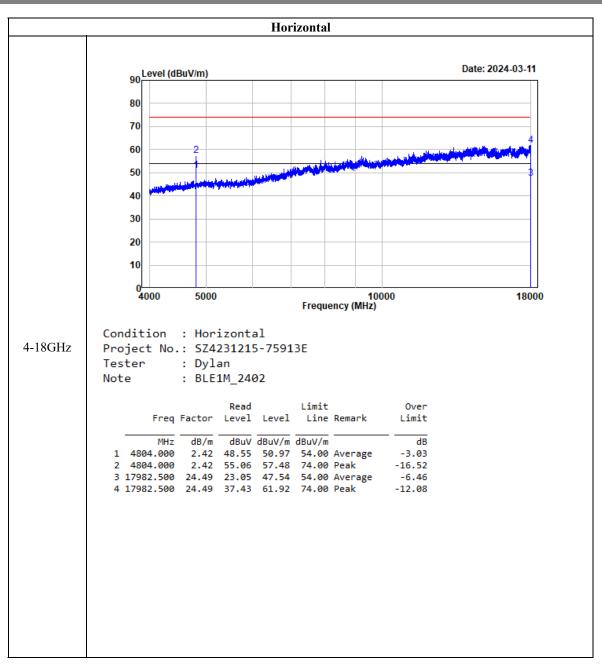


TR-EM-RF011





TR-EM-RF011

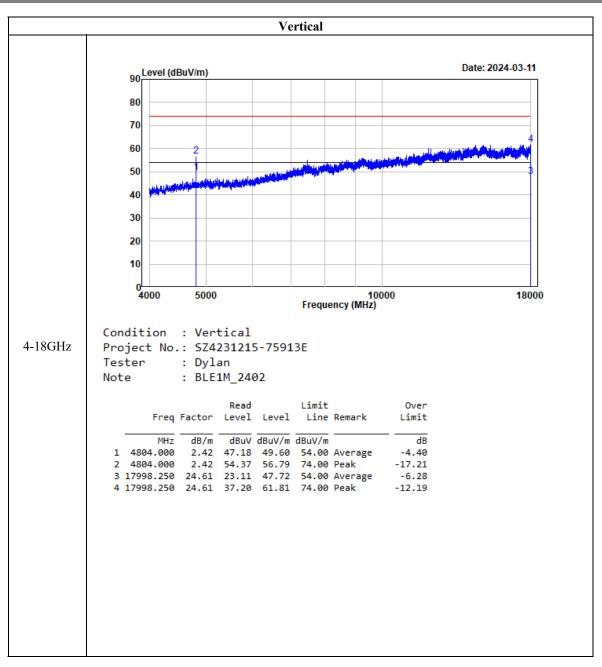


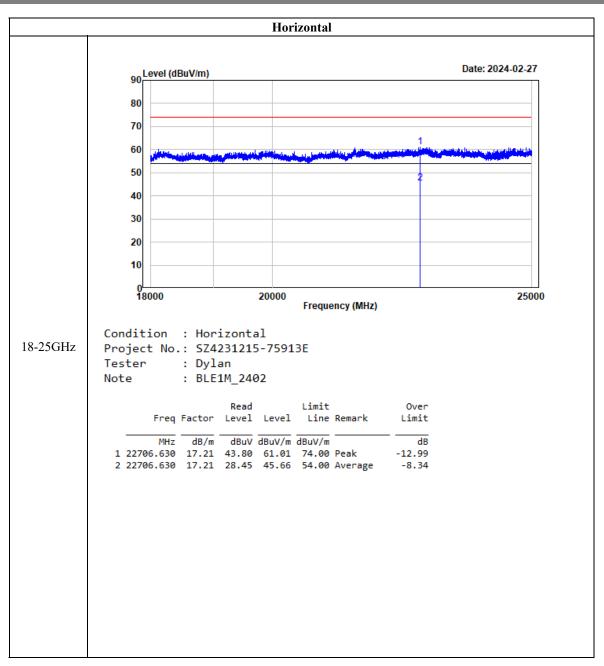
TR-EM-RF011

Page 40 of 62

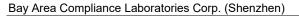


Report No.: SZ4231215-75913E-RF-00B

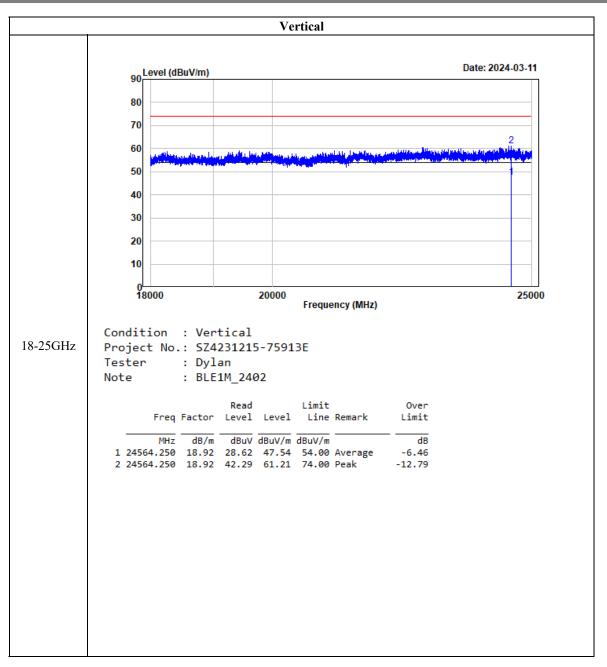




TR-EM-RF011



Report No.: SZ4231215-75913E-RF-00B



FCC §15.247(a) (2), RSS-GEN § 6.7 & RSS-247 § 5.2 (a) – 99% OCCUPIED BANDWIDTH & 6 dB EMISSON BANDWIDTH

Standard Applicable

According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

According to RSS-247 §5.2 a) The minimum 6 dB bandwidth shall be 500 kHz.

According to RSS-Gen §6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band

emission. The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

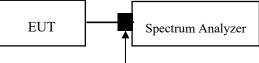
Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.8.1 & Clause 6.9.3

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

99% Occupied bandwidth test:

Use Occupied bandwidth test function, measure the 99% Occupied bandwidth. Repeat above procedures until all frequencies measured were complete.



Attenuator

Test Data

Environmental Conditions

Temperature:	25~28 °C
Relative Humidity:	45~55 %
ATM Pressure:	101 kPa

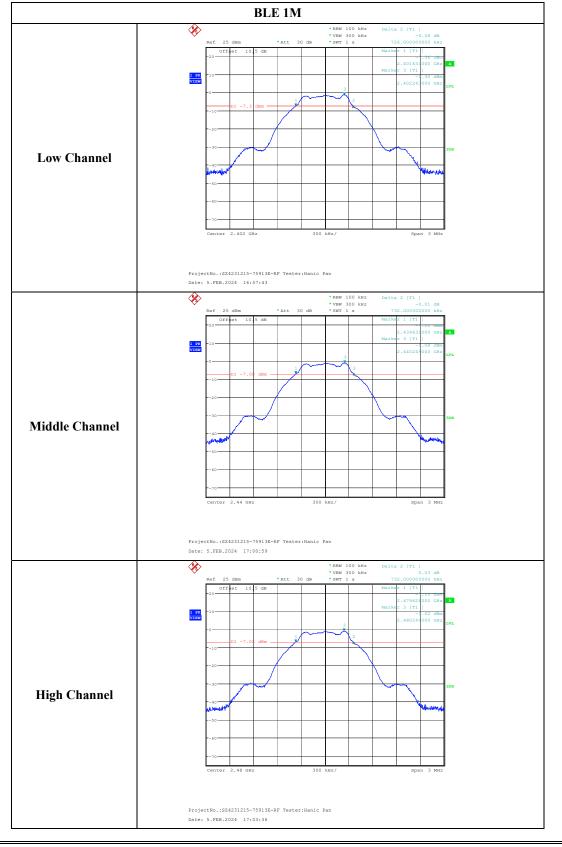
The testing was performed by Hanic Pan on 2024-02-05.

EUT operation mode: Transmitting

Test Result: Compliant.

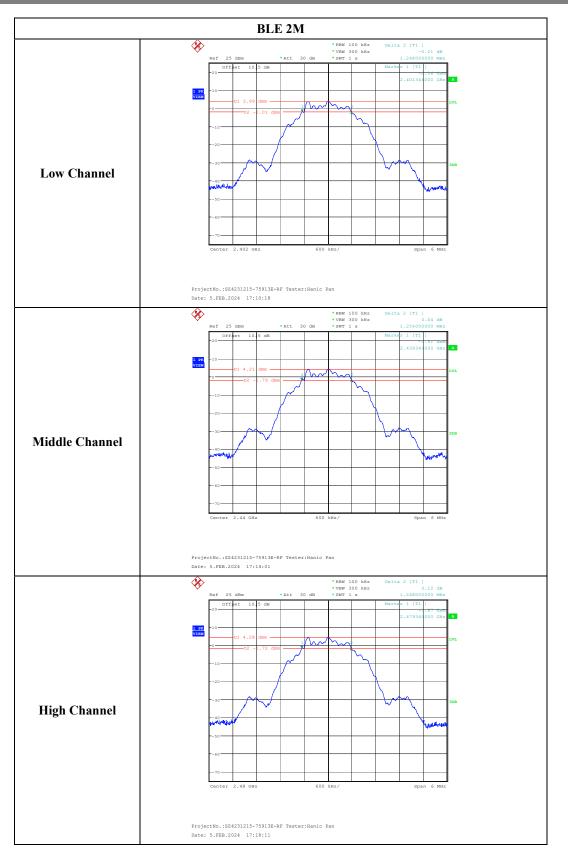
Test Modes	Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
	Lowest	2402	0.726	1.059	≥500
BLE 1M	Middle	2440	0.732	1.056	≥500
	Highest	2480	0.732	1.062	≥500
	Lowest	2402	1.248	2.058	≥500
BLE 2M	Middle	2440	1.254	2.058	≥500
	Highest	2480	1.248	2.058	≥500

6 dB Bandwidth



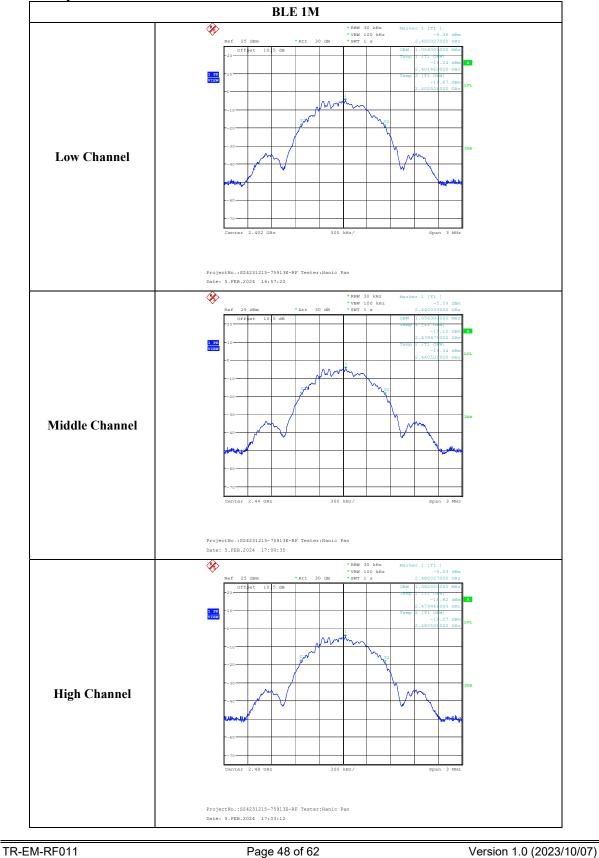
TR-EM-RF011

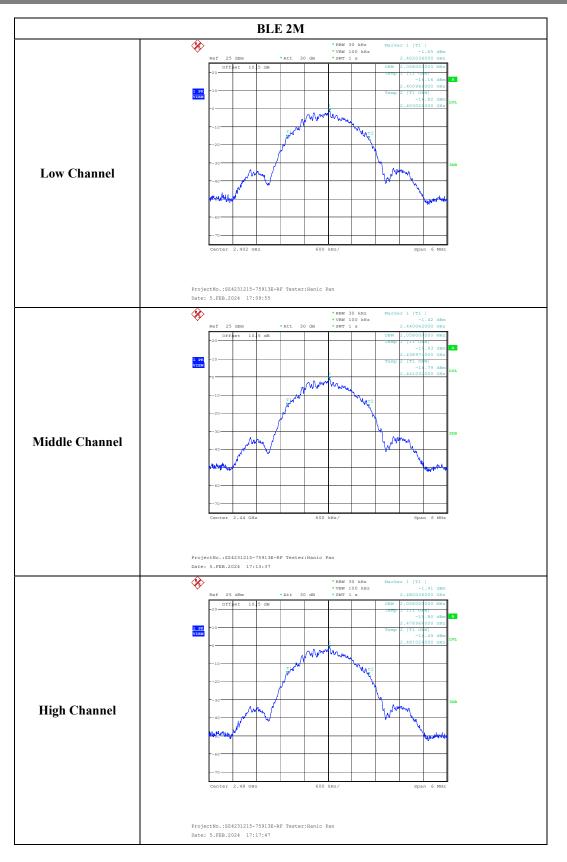




Page 47 of 62

99% Occupied Bandwidth





Page 49 of 62

FCC §15.247(b) (3), RSS-247 §5.4 (d) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to FCC §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.

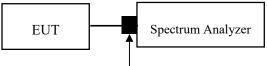
According to RSS-247§5.4 d) For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(e), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.9.1.1

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Attenuator

Test Data

Environmental Conditions

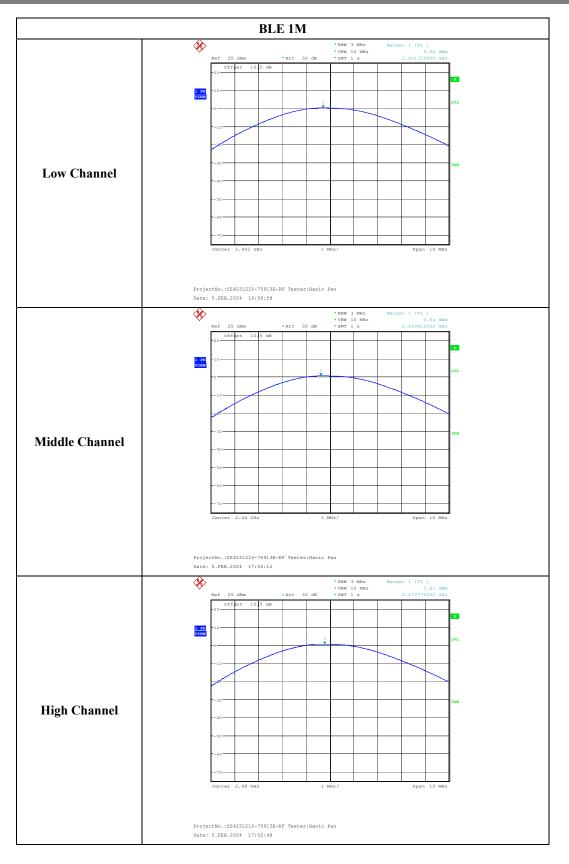
Temperature:	25~28 °C
Relative Humidity:	45~55 %
ATM Pressure:	101 kPa

The testing was performed by Hanic Pan on 2024-02-05.

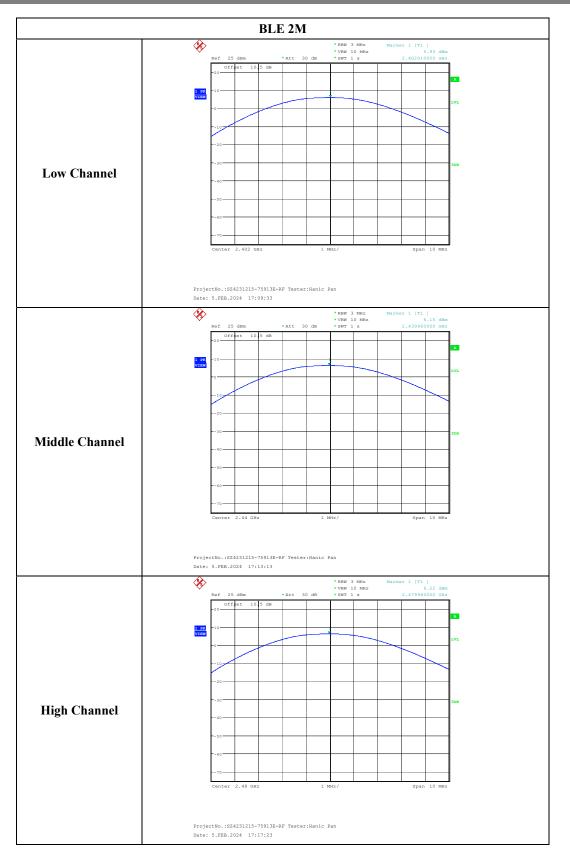
EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
	2402	0.30	≤30
BLE 1M	2440	0.54	≤30
	2480	0.61	≤30
	2402	5.93	≤30
BLE 2M	2440	6.15	≤30
	2480	6.22	≤30



Page 52 of 62



Page 53 of 62

FCC §15.247(e), RSS-247 §5.2 (b) – POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §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.

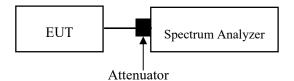
According to RSS-247 §5.2 b):

b) The transmitter power spectral density conducted from the transmitter 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 section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.10.2

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \leq RBW \leq 100 kHz$.
- 3. Set the VBW \geq 3 \times RBW.
- 4. Set the span to 1.5 times the DTS 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 amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

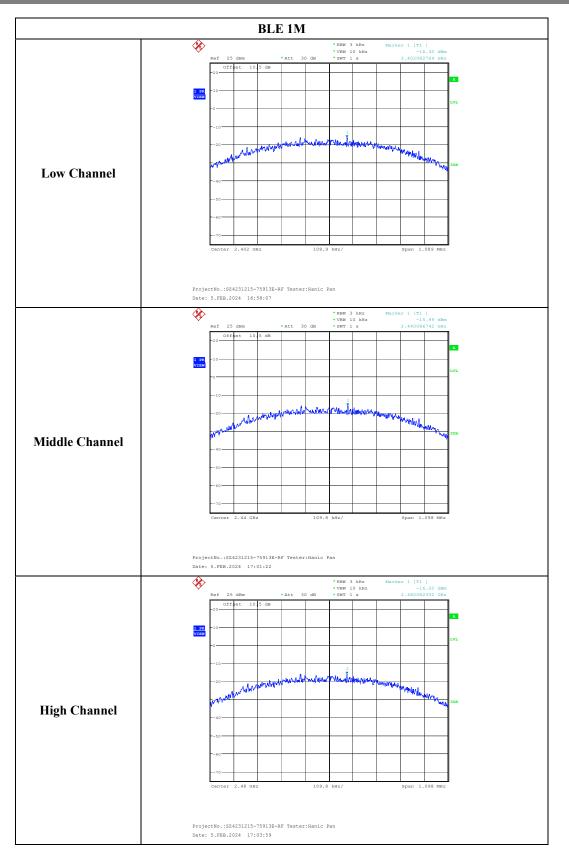
Temperature:	25~28 °C
Relative Humidity:	45~55 %
ATM Pressure:	101 kPa

The testing was performed by Hanic Pan on 2024-02-05.

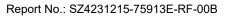
Test Mode: Transmitting

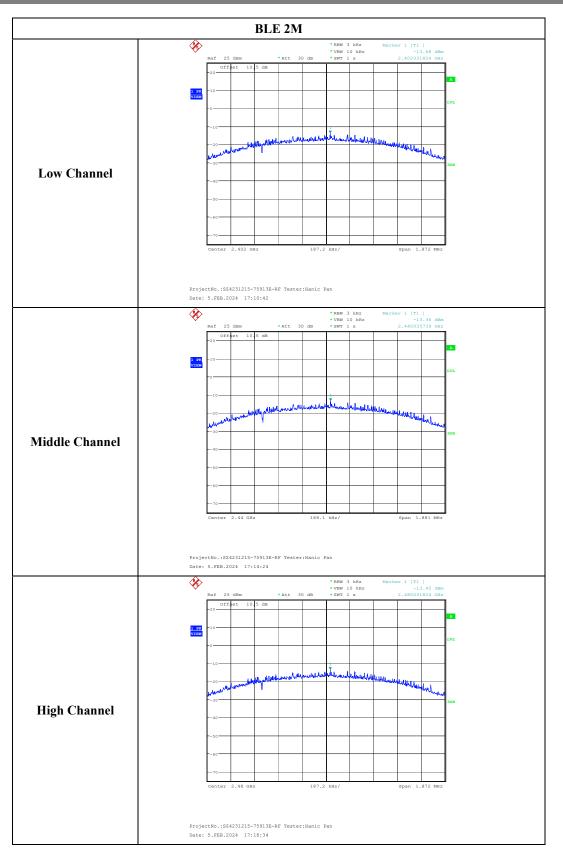
Test Result: Compliant.

Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
	2402	-16.30	≤8.00
BLE 1M	2440	-15.99	≤8.00
	2480	-16.00	≤8.00
	2402	-13.68	≤8.00
BLE 2M	2440	-13.36	≤8.00
	2480	-13.45	≤8.00



Page 56 of 62





Page 57 of 62

FCC §15.247(d) & RSS-247 §5.5 – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

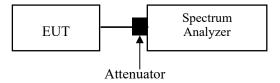
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.11

- 1. Set the RBW =100 kHz.
- 2. Set the VBW \ge 3 \times RBW.
- 3. Detector = peak
- 4. Sweep time = auto couple.
- 5. Trace mode=max hold
- 6. All trace to fully stabilize
- 7. Use the peak marker function to determine the maximum amplitude level. Ensure that amplitude of all unwanted emissions outside of the authorized frequency band(excluding restricted frequency bands) is attenuated by at least the minimum requirement specified in 11.11. Report the three highest emissions relative to the limit.



Test Data

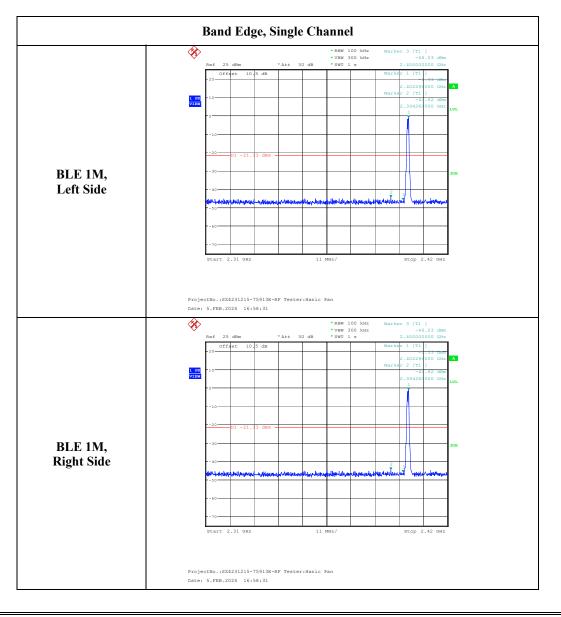
Environmental Conditions

Temperature:	25~28 °C
Relative Humidity:	45~55 %
ATM Pressure:	101 kPa

The testing was performed by Hanic Pan on 2024-02-05.

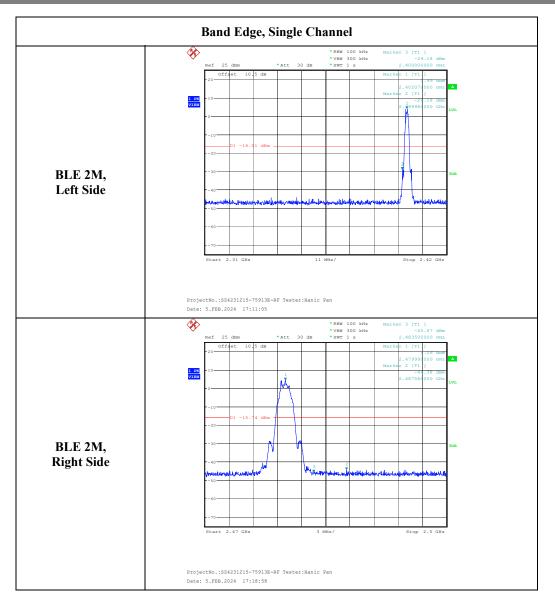
EUT operation mode: Transmitting

Test Result: Compliant.



TR-EM-RF011

Report No.: SZ4231215-75913E-RF-00B



EUT PHOTOGRAPHS

Please refer to the attachment SZ4231215-75913E-RF External photo and SZ4231215-75913E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ4231215-75913E-RFA Test Setup photo.

***** END OF REPORT *****

TR-EM-RF011