TEST REPORT

FCC BT LE Test for SM-A266U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2501-FC032

DATE OF ISSUE
January 15, 2025

Tested by
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Additional Model
SM-A266U1, SM-S266V

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-A266U
FCC ID	A3LSMA266U
FCC Classification	Digital Transmission System(DTS)
Date of Test	December 04, 2024 ~ January 15, 2025
Test Standard Used	Part 15 subpart C 15.247
Location of Test	■ Permanent Testing Lab ☐ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
Test Results	PASS

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	January 15, 2025	Initial Release

Notice

Content
Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance. The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***. When confirmation of authenticity of this test report is required, please contact www.hct.co.kr The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

CONTENTS

1. EUT DESCRIPTION

Model	SM-A266U		
Additional Model	SM-A266U1, SM-S266V		
EUT Type	Mobile Phone		
Power Supply	DC 4.20 V		
Frequency Range	125k, 500k, 1M Bit/s : 2402 - 2480 MHz 2M Bit/s : 2404 - 2478 MHz (Except for 2426 MHz)		
Number of Channels	125k, 500k, 1M Bit/s : 40 Channels 2M Bit/s : 37 Channels		
Max. RF Output Power (Normal)	Peak (For information only)	1 M Bit/s: 2 M Bit/s: 125 k Bit/s : 500 k Bit/s :	12.093 dBm (16.19 mW) 12.543 dBm (17.96 mW) 12.208 dBm (16.63 mW) 12.256 dBm (16.81 mW)
	Average	1 M Bit/s: 2 M Bit/s: 125 k Bit/s : 500 k Bit/s :	11.93 dBm (15.60 mW) 12.36 dBm (17.24 mW) 12.02 dBm (15.91 mW) 12.07 dBm (16.10 mW)
Modulation Type	GFSK		
Bluetooth Version	5.3		
Antenna Specification	Type: Metal Peak Gain: -3.27 dBi		
Serial number	Conducted : R3CXB07JDSP Radiated : R3CXB07JMLK		

2. TEST METHODOLOGY

FCC KDB 558074 D01 15.247 Meas Guidance v05r02 dated April 02, 2019 entitled “guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices and the measurement procedure described in ANSI C63.10(Version : 2013) ‘the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices’.

EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5 m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6.6.5 of ANSI C63.10. (Version: 2013)

DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

3. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment's, which is traceable to recognized national standards.
Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

4. FACILITIES AND ACCREDITATIONS

FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.
Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.
All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5. ANTENNA REQUIREMENTS

According to FCC 47 CFR § 15.203

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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."

(1) The antennas of this E.U.T are permanently attached.

(2) The E.U.T Complies with the requirement of § 15.203

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

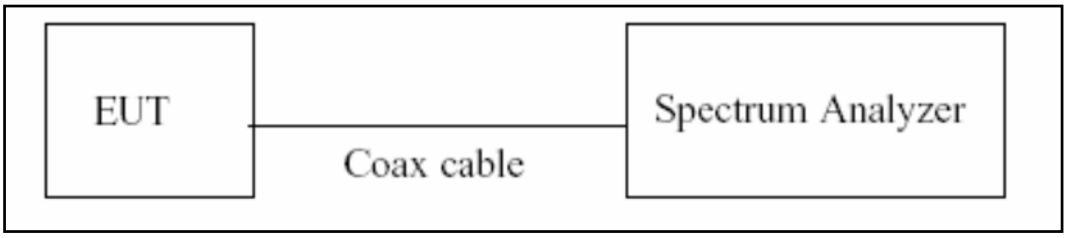
Parameter	Expanded Uncertainty (±kHz)
X dB, 99% Bandwidth	95 (Confidence level about 95 %, k=2)
Frequency stability	28 (Confidence level about 95 %, k=2)

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (Confidence level about 95 %, k=2)
Conducted Output Power(Power Meter)	0.54 (Confidence level about 95 %, k=2)
Conducted Output Power(Signal Analyzer)	0.68 (Confidence level about 95 %, k=2)
Power Spectral Density	1.03 (Confidence level about 95 %, k=2)
Band Edge (Out of Band Emissions)	0.70 (Confidence level about 95 %, k=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, k=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, k=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, k=2)

7. DESCRIPTION OF TESTS

7.1. Duty Cycle

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

We tested according to the zero-span measurement method, 6.0)b) in KDB 558074 v05r02.

The largest available value of RBW is 8 MHz and VBW is 50 MHz.

The zero-span method of measuring duty cycle shall not be used if T ≤ 6.25 microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/ *T*.

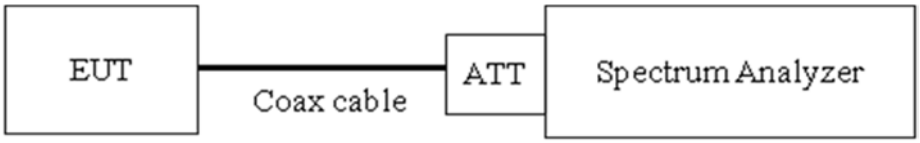
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (≥ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10log(1/Duty Cycle)

7.2. 6 dB Bandwidth

Limit

The minimum permissible 6 dB bandwidth is 500 kHz.

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

(Procedure 8.2 in KDB 558074 v05r02, Procedure 11.8.1 in ANSI 63.10-2013)

1) RBW = 100 kHz
2) VBW ≥ 3 x RBW
3) Detector = Peak
4) Trace mode = max hold
5) Sweep = auto couple
6) Allow the trace to stabilize
7) We tested 6 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 6 dB.

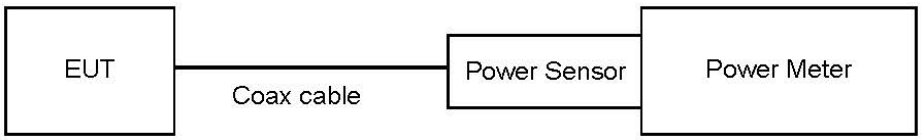
Note : We tested OBW using the automatic bandwidth measurement capability of a spectrum analyzer.

7.3. Output Power

Limit

The maximum permissible conducted output power is 1 Watt.

Test Configuration



Test Procedure

The transmitter output is connected to the Power Meter.

- Peak Power (Procedure 11.9.1.3 in ANSI 63.10-2013)
  : Measure the peak power of the transmitter.

- Average Power (Procedure 8.3.2.3 in KDB 558074 v05r02, Procedure 11.9.2.3 in ANSI 63.10-2013)
  1) Measure the duty cycle.
  2) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
  3) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

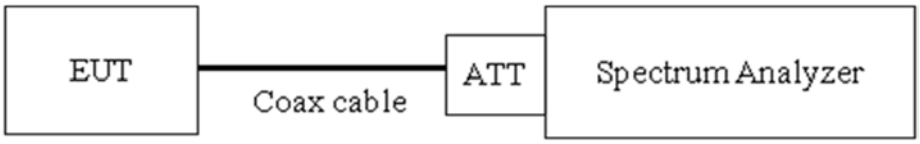
- Conducted Output Power(Peak) = Measured Value + ATT loss + Cable loss
- Conducted Output Power(Average) = Measured Value + ATT loss + Cable loss + Duty Cycle Factor

7.4. Power Spectral Density

Limit

The transmitter power density average over 1-second interval shall not be greater than 8 dBm in any 3 kHz BW.

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

We tested according to Procedure 8.4 in KDB 558074 v05r02, Procedure 11.10 in ANSI 63.10-2013.

The spectrum analyzer is set to :

1) Set analyzer center frequency to DTS channel center frequency.
2) Set span to at least 1.5 times the OBW.
3) RBW = 3 kHz ≤ RBW ≤ 100 kHz.
4) VBW ≥ 3 x RBW.
5) Sweep = auto couple
6) Detector = power averaging (rms) or sample detector (when rms not available).
7) Ensure that the number of measurement points in the sweep ≥ [2 ×span / RBW].
8) Employ trace averaging (rms) mode over a minimum of 100 traces
9) Use the peak marker function to determine the maximum amplitude level.
10) Use the peak marker function to determine the maximum amplitude level within the RBW.
    If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11) if then duty factor shall be added to adjust the result if the duty cycle is less than 98 %

Sample Calculation

- Power Spectral Density = Measured Value + ATT loss + Cable loss + Duty Cycle Factor

7.5. Conducted Band Edge(Out of Band Emissions) & Conducted Spurious Emissions

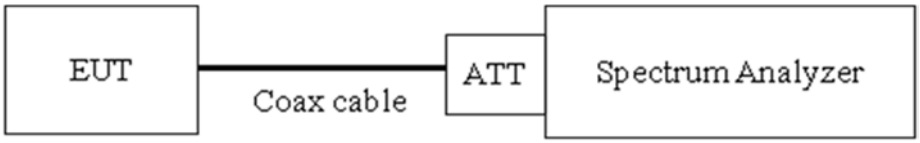
Limit

The maximum conducted (average) output power was used to demonstrate compliance, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least

30 dB relative to the maximum in-band peak PSD level in 100 kHz.

[Conducted > 30 dBc]

Test Configuration



Test Procedure

The transmitter output is connected to the spectrum analyzer.

(Procedure 8.5 in KDB 558074 v05r02, Procedure 11.11 in ANSI 63.10-2013)

1) RBW = 100 kHz
2) VBW ≥ 3 x RBW
3) Set span to encompass the spectrum to be examined
4) Detector = Peak
5) Trace Mode = max hold
6) Sweep time = auto couple
7) Allow trace to fully stabilize.
8) Use peak marker function to determine the maximum amplitude level.

Measurements are made over the 30 MHz to 25 GHz range with the transmitter set to the lowest, middle, and highest channels.

Factors for frequency

Freq(MHz)	Factor(dB)
30	10.53
100	10.60
200	10.63
300	10.61
400	10.72
500	10.80
600	10.83
700	10.97
800	11.09
900	11.19
1000	11.21
2000	11.21
2400	**11.26**
2500	**11.26**
3000	11.67
4000	11.75
5000	12.44
6000	12.44
7000	12.62
8000	12.63
9000	12.67
10000	12.74
11000	12.73
12000	12.76
13000	12.78
14000	12.91
15000	12.86
16000	12.92
17000	12.96
18000	13.00
19000	13.06
20000	13.10
21000	13.12
22000	13.16
23000	13.23
24000	13.27
25000	13.28

Note : 1. 2400 ~ 2500 MHz is fundamental frequency range.

2. Factor = Attenuator loss + Cable loss + EUT loss

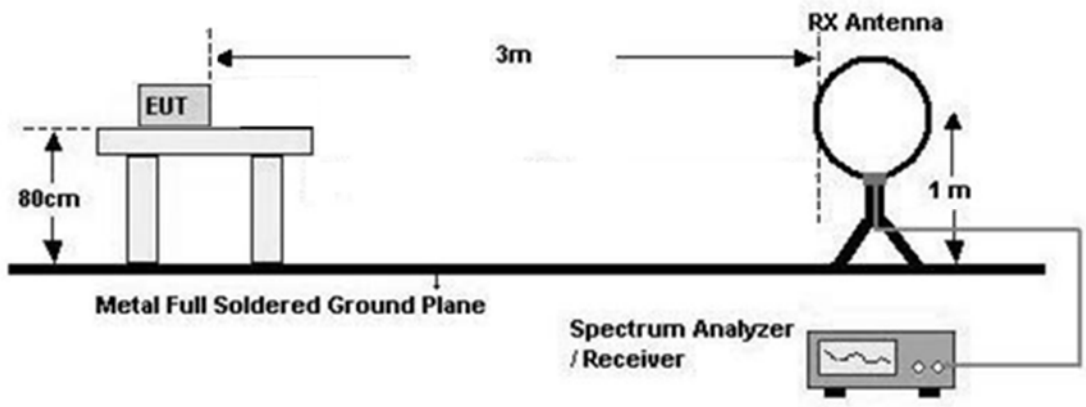
7.6. Radiated Test

Limit

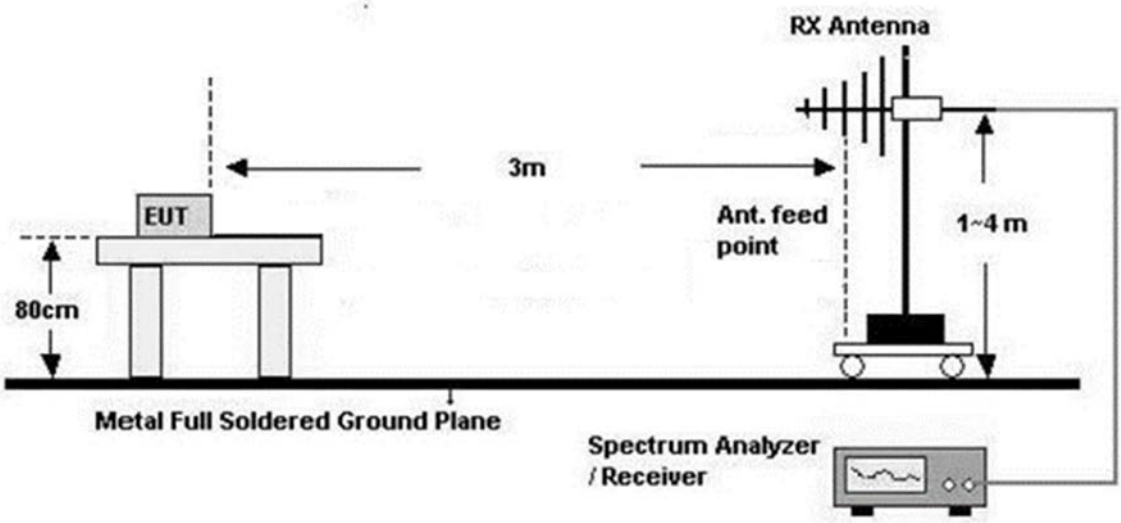
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

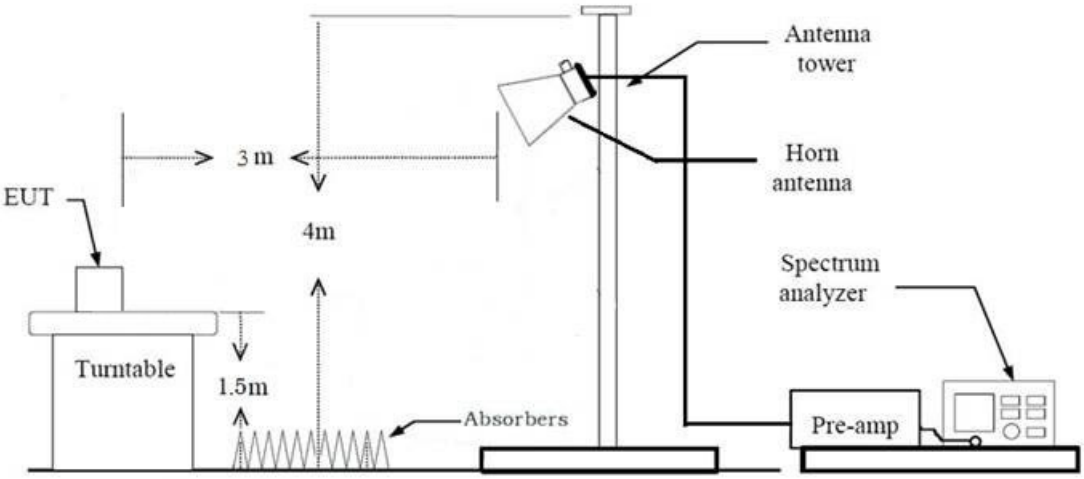
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



Test Procedure of Radiated spurious emissions(Below 30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8 m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz – 0.490 MHz) = 40log(3 m/300 m) = - 80 dB
   Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) = 40log(3 m/30 m) = - 40 dB
   Measurement Distance : 3 m
8. Spectrum Setting
   - Frequency Range = 9 kHz ~ 30 MHz
   - Detector = Peak
   - Trace = Max hold
   - RBW = 9 kHz
   - VBW ≥ 3 x RBW
9. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)
10. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

KDB 414788 OFS and Chamber Correlation Justification

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.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Test Procedure of Radiated spurious emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8 m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
   (1) Measurement Type(Peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Peak
      - Trace = Max hold
      - RBW = 100 kHz
      - VBW ≥ 3 x RBW
   (2) Measurement Type(Quasi-peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Quasi-Peak
      - RBW = 120 kHz

   In general, (1) is used mainly
7. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L)
8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Test Procedure of Radiated spurious emissions (Above 1 GHz)

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. The unit was tested with its standard battery.
8. Spectrum Setting (Method 8.6 in KDB 558074 v05r02, Procedure 11.12 in ANSI 63.10-2013)
   (1) Measurement Type(Peak):
      - Measured Frequency Range : 1 GHz – 25 GHz
      - Detector = Peak
      - Trace = Max hold
      - RBW = 1 MHz
      - VBW ≥ 3 x RBW
   (2) Measurement Type(Average):
      - Duty cycle < 98 %, duty cycle variations are less than ±2 %
      - Measured Frequency Range : 1 GHz – 25 GHz
      - Detector = RMS
      - Averaging type = power (*i.e.*, RMS)
      - RBW = 1 MHz
      - VBW ≥ 3 x RBW
      - Sweep time = auto.
      - Trace mode = average (at least 100 traces).
      - Correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle.

- Duty Cycle Factor (dB) : Please refer to the please refer to section 9.1

9. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
10. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
11. Total (Measurement Type : Peak)
    = Peak Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.G) + Distance Factor(D.F)

Total (Measurement Type : Average)

= Average Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.G) + Distance Factor(D.F)

#Note : Used Average measurement method according to KDB 558074 Section11 Q3

Test Procedure of Radiated Restricted Band Edge

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. The unit was tested with its standard battery.
8. Spectrum Setting
   (1) Measurement Type(Peak):
   - Measured Frequency Range : 2310 MHz ~ 2390 MHz/ 2483.5 MHz ~ 2500 MHz
   - Detector = Peak
   - Trace = Max hold
   - RBW = 1 MHz
   - VBW ≥ 3 x RBW

   (2) Measurement Type(Average):
   - Duty cycle < 98 %, duty cycle variations are less than ±2 %
   - Measured Frequency Range : 2310 MHz ~ 2390 MHz/ 2483.5 MHz ~ 2500 MHz
   - Detector = RMS
   - Averaging type = power (*i.e.*, RMS)
   - RBW = 1 MHz
   - VBW ≥ 3 x RBW
   - Sweep time = auto.
   - Trace mode = average (at least 100 traces).
   - Correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle.
   - Duty Cycle Factor (dB) : Please refer to the please refer to section 9.1.
9. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered

that's already beyond the background noise floor.

10. Distance extrapolation factor = 20log (test distance / specific distance) (dB)

(1)Measurement(Peak)

= Measured Value(Peak)

(2)Measurement(Avg)

= Measured Value(Avg)

- We apply to the offset in range 1 GHz - 18 GHz
- The offset = Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F) - Amp Gain(A.G)

#Note : Used Average measurement method according to KDB 558074 Section11 Q3

7.7. AC Power line Conducted Emissions

Limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56[a]	56 to 46[a]
0.50 to 5	56	46
5 to 30	60	50

[a]Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Annex A for the actual connections between EUT and support equipment.

Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors : Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Measured Value + Correction Factor

7.8. Worst case configuration and mode

Radiated Test

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone, Stand alone + External accessories(Earphone etc)
   - Worstcase : Stand alone
2. EUT Axis:
   - Radiated Spurious Emissions : Z
   - Radiated Restricted Band Edge : X
3. All packet length of operation were investigated and the test results are worst case in lowest packet length.
   (125k, 500k, 1M Bit/s all have the same 1MHz Band width and only Worst result is attached.)
4. All datarate of operation were investigated and the worst case configuration results are reported.
   - Worst case : 1 M, 2 M
5. All position of loop antenna were investigated and the test result is a no critical peak found at all positions.
   - Position : Horizontal, Vertical, Parallel to the ground plane
6. SM-A266U, SM-A266U1, SM-S266V were tested and the worst case results are reported. (Worst case: SM-A266U)

AC Power line Conducted Emissions

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone + External accessories(Earphone etc) + Travel Adapter,
     Stand alone + Travel Adapter
   - Worstcase : Stand alone + Travel Adapter
2. SM-A266U, SM-A266U1, SM-S266V were tested and the worst case results are reported. (Worst case: SM-A266U)

Conducted test

1. The EUT was configured with packet length of highest power.
   - ALL supported mode tested.
   - Worst Results refer to Notes for each test item
2. SM-A266U, SM-A266U1, SM-S266V were tested and the worst case results are reported. (Worst case: SM-A266U)

8. SUMMARY TEST OF RESULTS

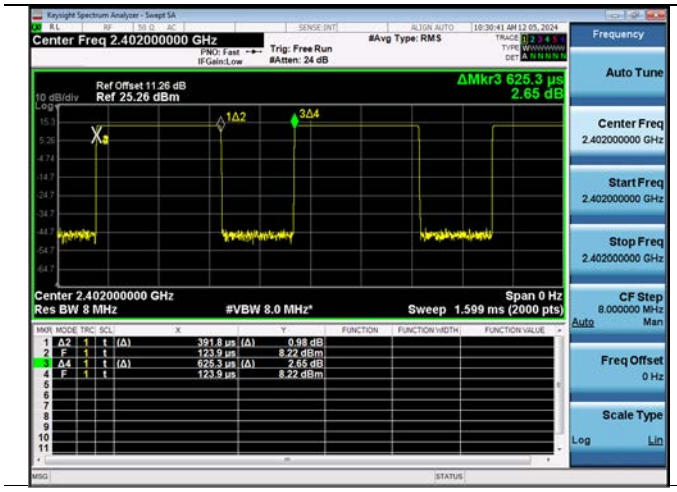
Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
6 dB Bandwidth	§ 15.247(a)(2)	> 500 kHz	Conducted	PASS
Conducted Maximum Output Power	§ 15.247(b)(3)	< 1 Watt		PASS
Power Spectral Density	§ 15.247(e)	< 8 dBm / 3 kHz Band		PASS
Band Edge (Out of Band Emissions)	§ 15.247(d)	Conducted > 30 dBc		PASS
AC Power line Conducted Emissions	§ 15.207	cf. Section 7.7		PASS
Radiated Spurious Emissions	§ 15.247(d), 15.205, 15.209	cf. Section 7.6	Radiated	PASS
Radiated Restricted Band Edge	§ 15.247(d), 15.205, 15.209	cf. Section 7.6		PASS

9. TEST RESULT

9.1 DUTY CYCLE

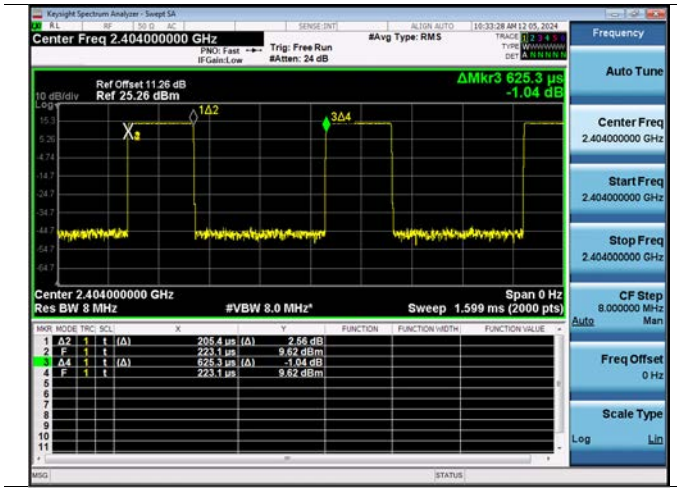
Data rate (Bit/s)	Packet length (Byte)	T_{on} (ms)	T_{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
1M	37	0.392	0.625	0.627	2.030
	255	2.135	2.499	0.854	0.684
2M	37	0.205	0.625	0.328	4.835
	255	1.076	1.876	0.574	2.414
125k	37	3.099	3.749	0.827	0.827
	255	17.060	17.510	0.974	0.113
500k	37	1.070	1.876	0.570	2.438
	255	4.557	4.998	0.912	0.401

1 M Bit/s (37 Byte) Duty Cycle (Low-CH 0)

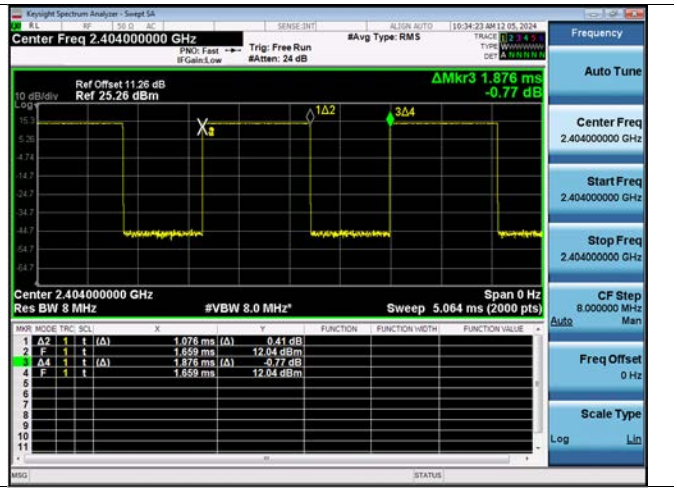


1 M Bit/s (255 Byte) Duty Cycle (Low-CH 0)

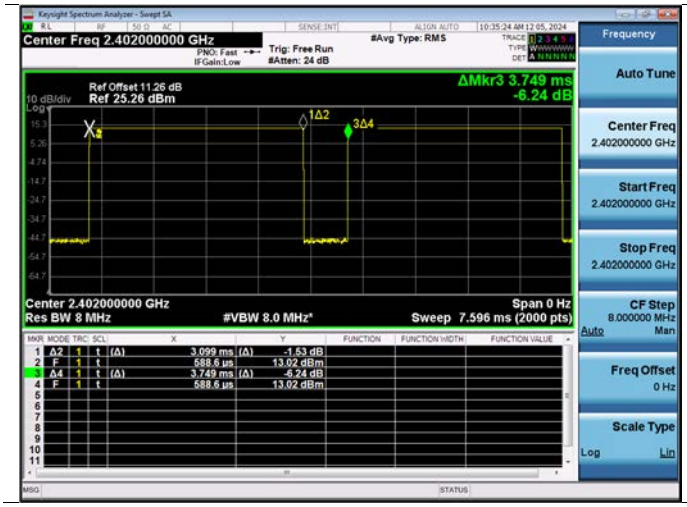
2 M Bit/s (37 Byte) Duty Cycle (Low-CH 0)



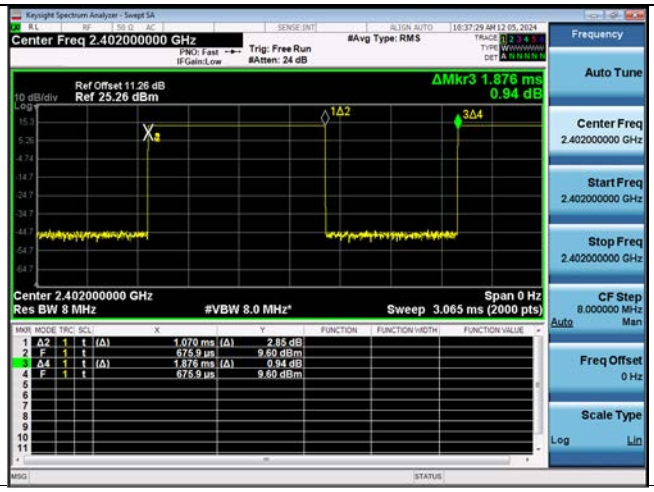
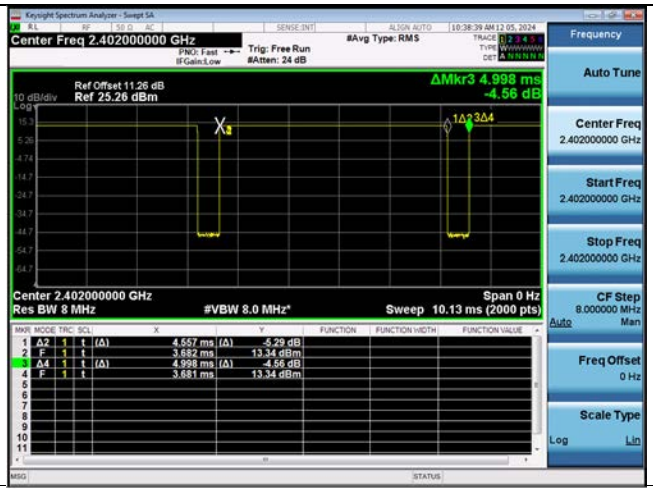
2 M Bit/s (255 Byte) Duty Cycle (Low-CH 0)



125 k Bit/s(37 Byte) Duty Cycle (Low-CH 0)



125 k Bit/s(255 Byte) Duty Cycle (Low-CH 0)

500 k Bit/s(37 Byte) Duty Cycle (Low-CH 0)	500 k Bit/s(255 Byte) Duty Cycle (Low-CH 0)
	

9.2 6 dB BANDWIDTH

Mode (Bit/s)	Channel	6 dB Bandwidth (kHz)	Limit (kHz)
1M(37)	37	672.0	> 500
	17	674.2	
	39	669.6	
1M(255)	37	675.0	> 500
	17	673.1	
	39	674.2	
2M(37)	0	1121	> 500
	17	1118	
	36	1113	
2M(255)	0	1127	> 500
	17	1127	
	36	1126	
125k(37)	37	612.8	> 500
	17	627.4	
	39	626.2	
125k(255)	37	608.1	> 500
	17	619.1	
	39	605.2	
500k(37)	37	673.1	> 500
	17	668.8	
	39	674.1	
500k(255)	37	671.8	> 500
	17	667.9	
	39	686.0	

Note:

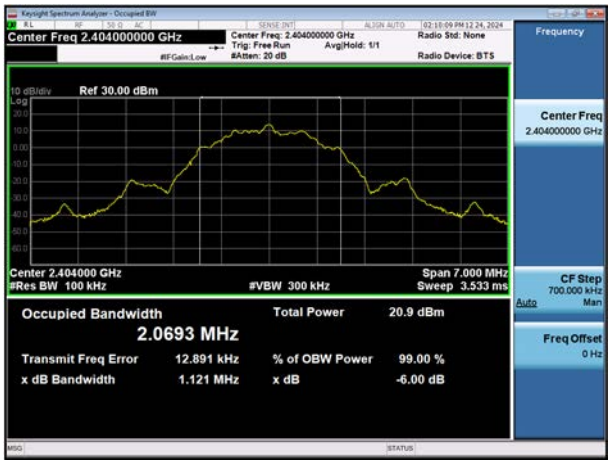
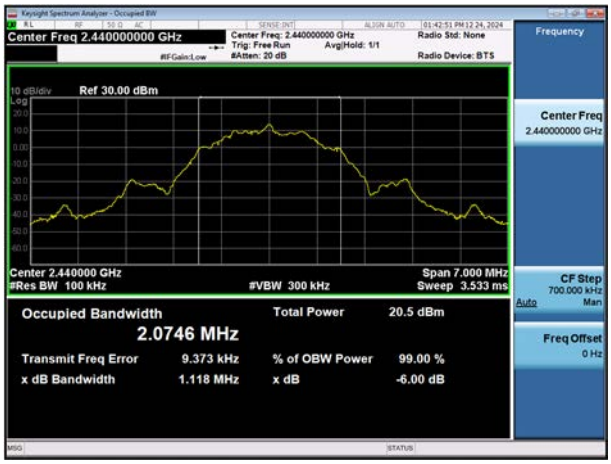
In order to simplify the report, attached plots were only the narrowest 6 dB BW Channel.

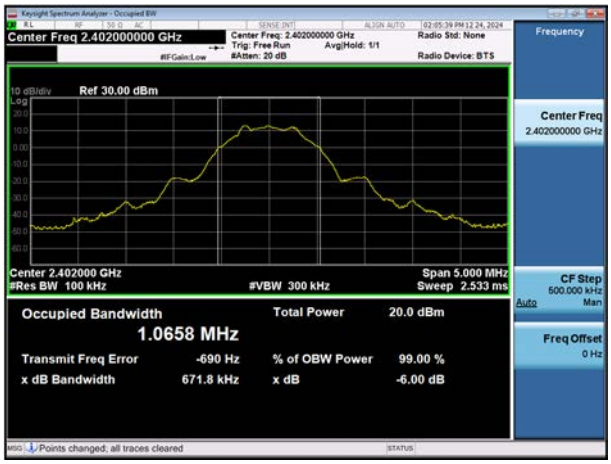
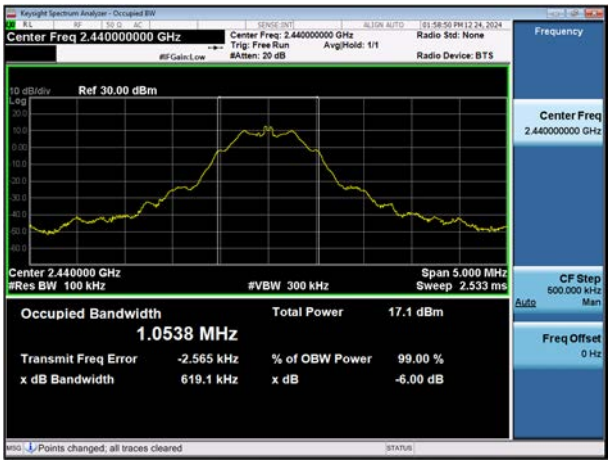
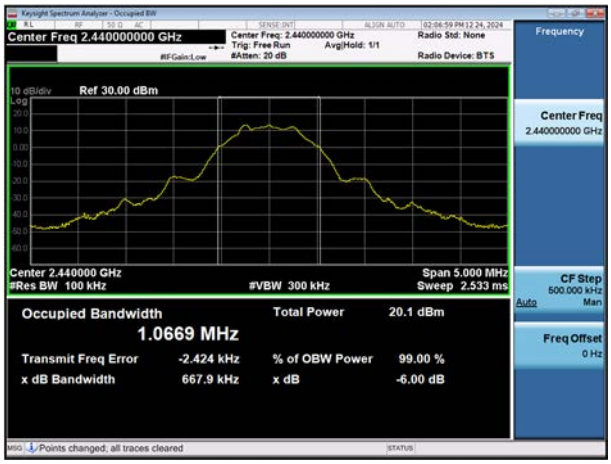
1M Bit/s: 37 Byte

2M Bit/s: 37 Byte

125k Bit/s: 255 Byte

500k Bit/s: 255 Byte

1 MBit/s (37 Byte) Test Plots	2 MBit/s (37 Byte) Test Plots
6 dB Bandwidth plot (Low-CH 37)	6 dB Bandwidth plot (Low-CH 0)
	
6 dB Bandwidth plot (Mid-CH 17)	6 dB Bandwidth plot (Mid-CH 17)
	
6 dB Bandwidth plot (High-CH 39)	6 dB Bandwidth plot (High-CH 36)
	

125k Bit/s(255 Byte) Test Plots	500k Bit/s(255 Byte) Test Plots
6 dB Bandwidth plot (Low-CH 37)	6 dB Bandwidth plot (Low-CH 37)
	
6 dB Bandwidth plot (Mid-CH 17)	6 dB Bandwidth plot (Mid-CH 17)
	
6 dB Bandwidth plot (High-CH 39)	6 dB Bandwidth plot (High-CH 39)
	

9.3 OUTPUT POWER

Peak Power

Data rate	Packet length	LE Mode		Measured Power(dBm)	Limit (dBm)
(Bit/s)	(Byte)	Frequency [MHz]	Channel		
1M	37	2402	37	11.408	30
		2440	17	11.345	
		2480	39	12.093	
	255	2402	37	11.366	
		2440	17	11.246	
		2480	39	12.058	
2M	37	2404	0	11.708	
		2440	17	11.352	
		2478	36	12.543	
	255	2404	0	11.759	
		2440	17	11.297	
		2478	36	12.543	
125k	37	2402	37	11.431	
		2440	17	11.212	
		2480	39	12.208	
	255	2402	37	11.378	
		2440	17	11.302	
		2480	39	12.068	
500k	37	2402	37	11.495	
		2440	17	11.263	
		2480	39	12.256	
	255	2402	37	11.469	
		2440	17	11.258	
		2480	39	12.034	

Average Power

Data rate	Packet length	LE Mode		Measured Power (dBm)	Duty Cycle Factor	Result	Limit (dBm)
(Bit/s)	(Byte)	Frequency [MHz]	Channel		(dB)	(dBm)	
1M	37	2402	37	9.23	2.03	11.26	30
		2440	17	9.10	2.03	11.13	
		2480	39	9.90	2.03	11.93	
	255	2402	37	10.50	0.68	11.18	
		2440	17	10.42	0.68	11.10	
		2480	39	11.16	0.68	11.84	
2M	37	2404	0	6.76	4.83	11.59	
		2440	17	6.30	4.83	11.13	
		2478	36	7.53	4.83	12.36	
	255	2404	0	9.18	2.41	11.59	
		2440	17	8.70	2.41	11.11	
		2478	36	9.93	2.41	12.34	
125k	37	2402	37	10.45	0.83	11.28	
		2440	17	10.25	0.83	11.08	
		2480	39	11.19	0.83	12.02	
	255	2402	37	11.12	0.11	11.23	
		2440	17	11.02	0.11	11.13	
		2480	39	11.85	0.11	11.96	
500k	37	2402	37	8.88	2.44	11.32	
		2440	17	8.72	2.44	11.16	
		2480	39	9.63	2.44	12.07	
	255	2402	37	10.88	0.40	11.28	
		2440	17	10.72	0.40	11.12	
		2480	39	11.48	0.40	11.88	

9.4 POWER SPECTRAL DENSITY

Frequency (MHz)	Channel No.	Mode	Test Result			
			Measured PSD (dBm/kHz)	Duty Cycle Factor (dB)	Total PSD (dBm/kHz)	Limit
2402	37	1M Bit/s 37 Byte	-0.905	2.03	1.125	8 dBm / 3 kHz
2440	17		-1.267	2.03	0.763	
2480	39		-0.023	2.03	2.007	
2402	37	1M Bit/s 255 Byte	-0.066	0.68	0.618	
2440	17		-0.674	0.68	0.010	
2480	39		0.782	0.68	1.466	
2404	0	2M Bit/s 37 Byte	-3.498	4.83	1.337	
2440	17		-2.873	4.83	1.962	
2478	36		-3.252	4.83	1.583	
2404	0	2M Bit/s 255 Byte	-4.725	2.41	-2.311	
2440	17		-4.121	2.41	-1.707	
2478	36		-2.863	2.41	-0.449	
2402	37	125k Bit/s 37 Byte	4.114	0.83	4.941	
2440	17		3.938	0.83	4.765	
2480	39		5.108	0.83	5.935	
2402	37	125k Bit/s 255 Byte	4.958	0.11	5.071	
2440	17		4.661	0.11	4.774	
2480	39		5.799	0.11	5.912	
2402	37	500k Bit/s 37 Byte	-1.229	2.44	1.209	
2440	17		0.041	2.44	2.479	
2480	39		0.331	2.44	2.769	
2402	37	500k Bit/s 255 Byte	-0.443	0.40	-0.042	
2440	17		-0.832	0.40	-0.431	
2480	39		0.551	0.40	0.952	

Note :

1. Spectrum measured Value not plot data.
   The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Total PSD = Measured PSD + Duty Cycle Factor
3. Worst case test plot was attached. (Worstcase : 125k Bit/s 37 Byte)

▣ 125k Bit/s (37 Byte) Test Plots

Power Spectral Density (Low-CH 37)

Power Spectral Density (Mid-CH 17)

Power Spectral Density (High-CH 39)

9.5 BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS

Test Result : please refer to the plot below.
In order to simplify the report, attached plots were only the worst case channel and data rate.

[BAND EDGE]

Frequency (MHz)	Mode	Channel No.	Position	Test Result	
				Measured Level (dB)	Limit (dBc)
2402	1M Bit/s 37 Byte	37	Lower	53.369	30
2480		39	Upper	59.062	30
2402	1M Bit/s 255 Byte	37	Lower	54.901	30
2480		39	Upper	59.879	30
2404	2M Bit/s 37 Byte	0	Lower	57.820	30
2478		36	Upper	60.572	30
2404	2M Bit/s 255 Byte	0	Lower	57.530	30
2478		36	Upper	59.302	30
2402	125k Bit/s 37 Byte	37	Lower	51.560	30
2480		39	Upper	59.030	30
2402	125k Bit/s 255 Byte	37	Lower	54.778	30
2480		39	Upper	62.285	30
2402	500k Bit/s 37 Byte	37	Lower	52.980	30
2480		39	Upper	60.322	30
2402	500k Bit/s 255 Byte	37	Lower	54.687	30
2480		39	Upper	58.045	30

Note :

1. In order to simplify the report, attached plots were only the worst case channel and data rate.
   [Lower: Worst case : 125k Bit/s (37 Byte)]
   [Upper: Worst case : 125k Bit/s (37 Byte)]

[CONDUCTED SPURIOUS EMISSIONS]

Note :

1. In order to simplify the report, attached plots were only the worst case channel and data rate.
   Worst case 2M Bit/s (37 Byte)

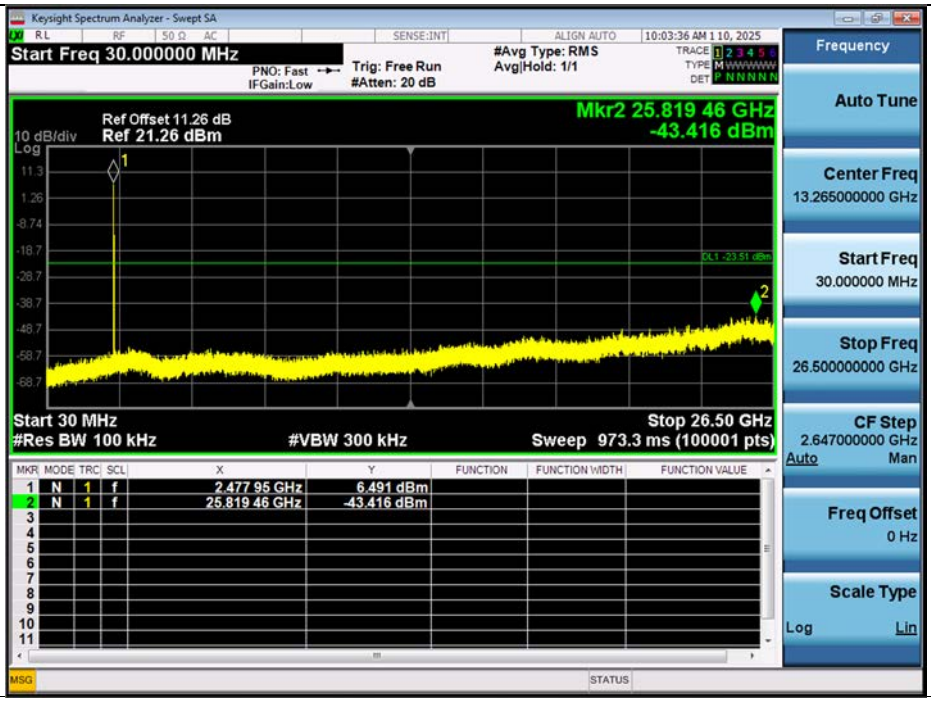
▣ Test Plots - Band Edge

125k Bit/s (37 Byte) Low-CH 37

125k Bit/s (37 Byte) High-CH 39

▣ **Test Plots - Conducted Spurious Emission** (Worst case : 2M Bit/s (37 Byte)_CH.36)

Spurious Emission (30 MHz – 26.5 GHz)



Note:

1. In order to simplify the report, attached plots were only the worst case channel and data rate.
2. Limit: -23.509 dBm

9.6 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	A.F+C.L+D.F	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = 40log (specific distance / test distance) (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

CH 37	2402	MHz	Mode :		1 M Bit/s (37 Bytes)		
Frequency	Measured value	A.F+C.L-A.G+D.F	Pol.	Total	Limit	Margin	Measurement Type
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	
4804	59.97	-5.49	V	54.48	73.98	19.50	PK
4804	53.94	-5.49	V	48.45	53.98	5.53	AV
7206	48.42	1.86	V	50.28	73.98	23.70	PK
7206	38.11	1.86	V	39.97	53.98	14.01	AV
4804	58.60	-5.49	H	53.11	73.98	20.87	PK
4804	52.20	-5.49	H	46.71	53.98	7.27	AV
7206	48.55	1.86	H	50.41	73.98	23.57	PK
7206	38.19	1.86	H	40.05	53.98	13.93	AV

CH 17	2440	MHz	Mode :		1 M Bit/s (37 Bytes)		
Frequency	Measured value	A.F+C.L-A.G+D.F	Pol.	Total	Limit	Margin	Measurement Type
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	
4880	59.25	-5.18	V	54.07	73.98	19.91	PK
4880	52.70	-5.18	V	47.52	53.98	6.46	AV
7320	49.65	1.94	V	51.59	73.98	22.39	PK
7320	40.28	1.94	V	42.22	53.98	11.76	AV
4880	59.55	-5.18	H	54.37	73.98	19.61	PK
4880	53.05	-5.18	H	47.87	53.98	6.11	AV
7320	49.84	1.94	H	51.78	73.98	22.20	PK
7320	40.32	1.94	H	42.26	53.98	11.72	AV

CH 39	2480	MHz	Mode :		1 M Bit/s (37 Bytes)		
Frequency	Measured value	A.F+C.L-A.G+D.F	Pol.	Total	Limit	Margin	Measurement Type
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	
4960	58.60	-4.82	V	53.78	73.98	20.20	PK
4960	51.47	-4.82	V	46.65	53.98	7.33	AV
7440	48.20	2.13	V	50.33	73.98	23.65	PK
7440	37.56	2.13	V	39.69	53.98	14.29	AV
4960	58.79	-4.82	H	53.97	73.98	20.01	PK
4960	52.00	-4.82	H	47.18	53.98	6.80	AV
7440	48.29	2.13	H	50.42	73.98	23.56	PK
7440	37.86	2.13	H	39.99	53.98	13.99	AV

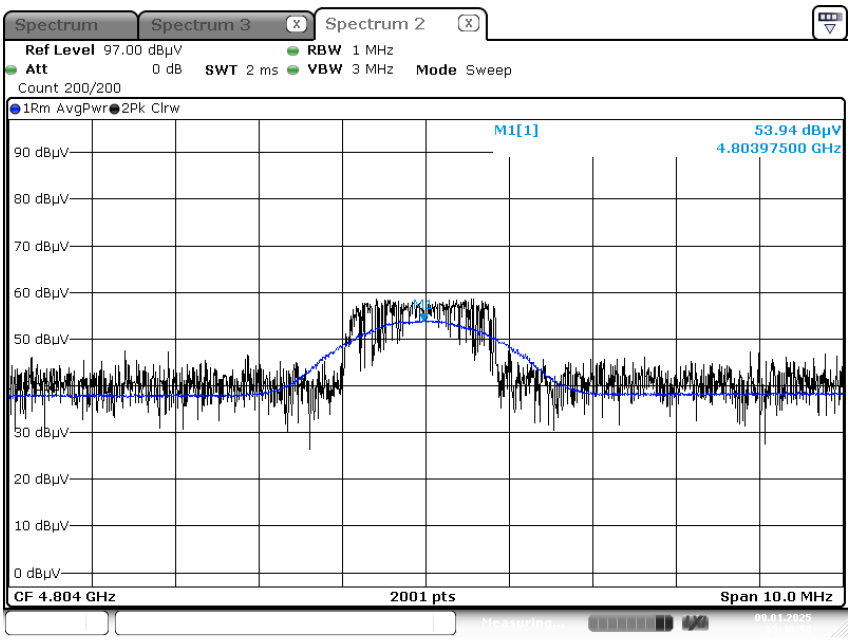
CH 0	2404	MHz	Mode :		2 M Bit/s (37 Bytes)		
Frequency	Measured value	A.F+C.L-A.G+D.F	Pol.	Total	Limit	Margin	Measurement Type
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	
4804	58.17	-5.49	V	52.68	73.98	21.30	PK
4804	47.63	-5.49	V	42.14	53.98	11.84	AV
7206	48.66	1.86	V	50.52	73.98	23.46	PK
7206	36.72	1.86	V	38.58	53.98	15.40	AV
4804	58.76	-5.49	H	53.27	73.98	20.71	PK
4804	47.85	-5.49	H	42.36	53.98	11.62	AV
7206	48.94	1.86	H	50.80	73.98	23.18	PK
7206	36.86	1.86	H	38.72	53.98	15.26	AV

CH 17	2440	MHz	Mode :		2 M Bit/s (37 Bytes)		
Frequency	Measured value	A.F+C.L-A.G+D.F	Pol.	Total	Limit	Margin	Measurement Type
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	
4880	59.14	-5.18	V	53.96	73.98	20.02	PK
4880	48.82	-5.18	V	43.64	53.98	10.34	AV
7320	48.93	1.94	V	50.87	73.98	23.11	PK
7320	38.05	1.94	V	39.99	53.98	13.99	AV
4880	59.51	-5.18	H	54.33	73.98	19.65	PK
4880	49.00	-5.18	H	43.82	53.98	10.16	AV
7320	49.99	1.94	H	51.93	73.98	22.05	PK
7320	38.12	1.94	H	40.06	53.98	13.92	AV

CH 36	2478	MHz	Mode :		2 M Bit/s (37 Bytes)		
Frequency	Measured value	A.F+C.L-A.G+D.F	Pol.	Total	Limit	Margin	Measurement Type
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	
4960	58.10	-4.82	V	53.28	73.98	20.70	PK
4960	47.26	-4.82	V	42.44	53.98	11.54	AV
7440	49.33	2.13	V	51.46	73.98	22.52	PK
7440	36.54	2.13	V	38.67	53.98	15.31	AV
4960	59.11	-4.82	H	54.29	73.98	19.69	PK
4960	48.12	-4.82	H	43.30	53.98	10.68	AV
7440	49.53	2.13	H	51.66	73.98	22.32	PK
7440	36.91	2.13	H	39.04	53.98	14.94	AV

☑ 1 M Bit/s 37 Bytes Test Plots (Worst case : Z-V)

Radiated Spurious Emissions plot – Average Result (Ch.37 2nd Harmonic)



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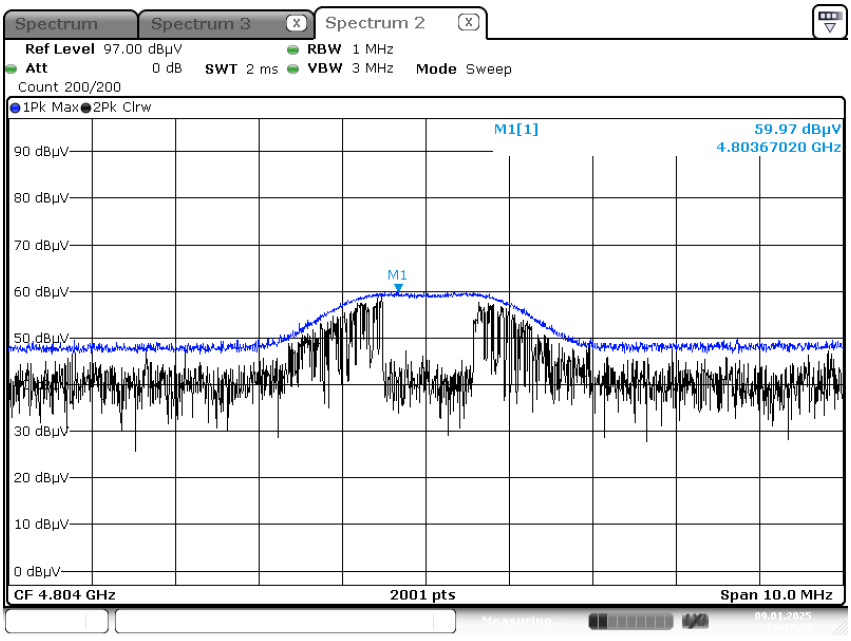
Radiated Spurious Emissions plot – Peak Result (Ch.37 2nd Harmonic)



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Note:

Plots of worst case are only reported.

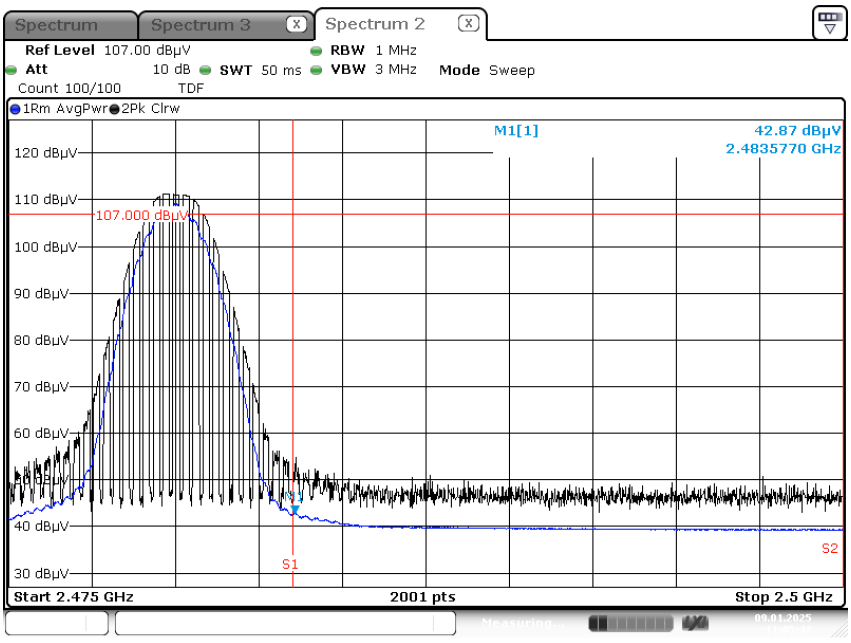
9.7 RADIATED RESTRICTED BAND EDGES

1 M Bit/s (37 Bytes)							
Channel	**37 CH, 39 CH**	**Channel Frequency**	**2402 MHz, 2480 MHz**				
Frequency	Measured Value	A.F+C.L-A.G+D.F	Ant. Pol.	Total	Limit	Margin	Measurement
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	Type
2390.0	52.03	-	H	52.03	73.98	21.95	PK
2390.0	40.09	-	H	40.09	53.98	13.89	AV
2483.5	55.37	-	H	55.37	73.98	18.61	PK
2483.5	42.87	-	H	42.87	53.98	11.11	AV

2 M Bit/s (37 Bytes)							
Channel	**0 CH, 36 CH**	**Channel Frequency**	**2404 MHz, 2478 MHz**				
Frequency	Measured Value	A.F+C.L-A.G+D.F	Ant. Pol.	Total	Limit	Margin	Measurement
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]	Type
2390.0	52.62	-	H	52.62	73.98	21.36	PK
2390.0	40.16	-	H	40.16	53.98	13.82	AV
2483.5	56.75	-	H	56.75	73.98	17.23	PK
2483.5	41.15	-	H	41.15	53.98	12.83	AV

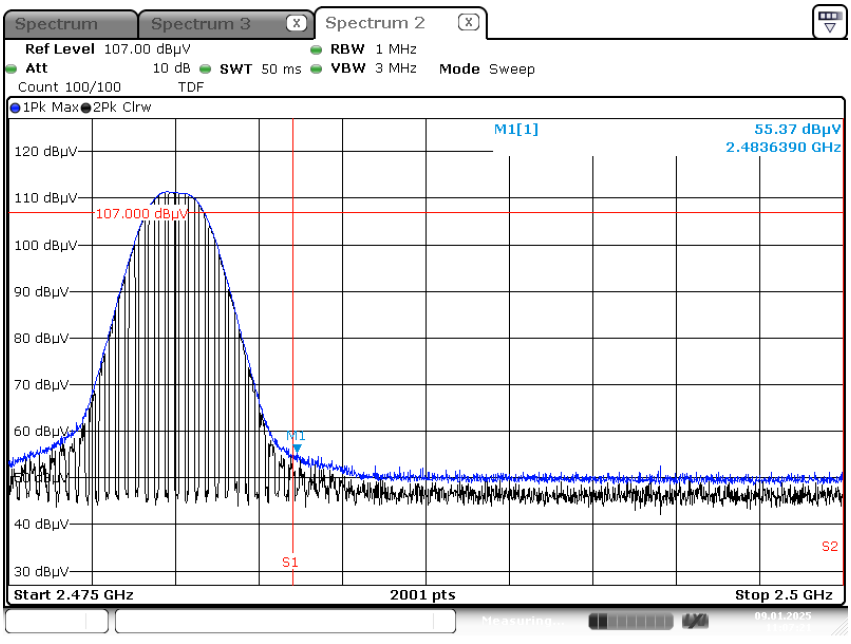
▣ Mode : 1 M Bit/s (37 Bytes) Test Plots

Radiated Restricted Band Edges plot – Average Result (Ch.39, X-H)



Date: 9.JAN.2025 11:05:44

Radiated Restricted Band Edges plot – Peak Result (Ch.39, X-H)



Date: 9.JAN.2025 11:07:22

Note:

In order to simplify the report, Plot of worst case are only reported.

9.8 POWERLINE CONDUCTED EMISSIONS

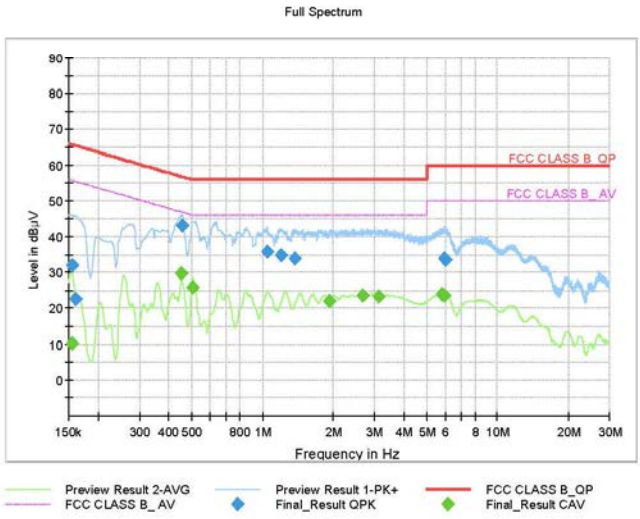
Conducted Emissions

Test 1 / 1

Test Report

Common Information

EUT : SM-A266U
Operating Conditions : BTLE Mode
Comment :



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	32.09	65.75	33.66	9.000	N	9.6
0.1613	22.78	65.40	42.62	9.000	N	9.6
0.4560	43.35	56.77	13.41	9.000	L1	9.7
1.0445	35.68	56.00	20.32	9.000	L1	9.7
1.2020	34.82	56.00	21.18	9.000	L1	9.7
1.3730	33.99	56.00	22.01	9.000	L1	9.7
5.9068	33.78	60.00	26.22	9.000	L1	9.9
5.9450	33.91	60.00	26.09	9.000	L1	9.9
5.9743	33.61	60.00	26.39	9.000	L1	9.9

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	10.29	55.75	45.46	9.000	L1	9.6
0.4538	29.59	46.81	17.21	9.000	L1	9.7
0.5045	25.87	46.00	20.13	9.000	L1	9.7
1.9333	21.97	46.00	24.03	9.000	L1	9.7
2.6758	23.52	46.00	22.48	9.000	L1	9.8
3.1415	23.27	46.00	22.73	9.000	L1	9.8
5.8100	24.08	50.00	25.92	9.000	L1	9.9
5.9225	23.70	50.00	26.30	9.000	L1	9.9
5.9450	23.61	50.00	26.39	9.000	L1	9.9

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10. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	07/02/2025	Annual
Temperature Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer	N9030A	Keysight	MY55410508	08/23/2025	Annual
Power Meter	N1911A	Agilent	MY45100523	02/28/2025	Annual
Power Sensor	N1921A	Agilent	MY57820067	02/22/2025	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/21/2025	Annual
Power Splitter	11667B	Hewlett Packard	10545	02/06/2025	Annual
DC Power Supply	E3632A	Agilent	KR01009150	04/18/2025	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C-010	Agilent	08285	05/28/2025	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	02/20/2025	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/ 15421/57580623/G	N/A	N/A
Antenna Position Tower	MA4640	Innco system	9320422	04/05/2025	Biennial
Turn Table	N/A	Innco system	5930623	N/A	N/A
Loop Antenna	FMZB 1513	Schwarzbeck	1513-175	01/06/2027	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-1135	08/19/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1151	07/14/2025	Biennial
Horn Antenna (15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Amp & Filter Bank Switch Controller	FBSM-01B	T&M system	TM2009001	N/A	N/A
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	12/26/2025	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/04/2025	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/04/2025	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	02/14/2025	Annual
RF Switching System	FMSR-05B (HPF(3~18GHz) + LNA1(1~18GHz))	T&M system	S5L1	03/12/2025	Annual
RF Switching System	FMSR -05B (ATT(10dB) + LNA1(1~18GHz))	T&M system	S5L2	03/12/2025	Annual
RF Switching System	FMSR -05B (ATT(3dB) + LNA1(1~18GHz))	T&M system	S5L3	03/12/2025	Annual
RF Switching System	FMSR -05B (LNA1(1~18GHz))	T&M system	S5L4	03/12/2025	Annual
RF Switching System	FMSR -05B (HPF(7~18GHz) + LNA2(6~18GHz))	T&M system	S5L5	03/12/2025	Annual
RF Switching System	FMSR -05B (Thru(30MHz ~ 18GHz))	T&M system	S5L6	03/12/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
Spectrum Analyzer	FSV40 (9 kHz ~ 40 GHz)	Rohde & Schwarz	101510	09/24/2025	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

11. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2501-FC032-P