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DOKE COMMUNICATION (HK) LIMITED

TEST REPORT

SCOPE OF WORK
FCC TESTING – FORT 1

REPORT NUMBER
250522061SZN-002

ISSUE DATE	**[REVISED DATE]**
23 July 2025	[----------]

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TEST REPORT

Intertek Report No.: 250522061SZN-002

DOKE COMMUNICATION (HK) LIMITED

Application
For
Certification

FCC ID: 2A7DX-FORT1

Smart phone

Model: FORT 1

Brand Name: Blackview

2.4GHz Transceiver

Report No.: 250522061SZN-002

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-23]

Prepared and Checked by:

Bruce

Bruce Zheng
Project Engineer

Approved by:

Johnny Wang

Johnny Wang
Project Engineer
Date: 23 July 2025

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant ___X___ Class II Change _____

Equipment Type: DTS - Part 15 Digital Transmission Systems

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No ___X___

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes _____ No ___X___

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-1-23] Edition] provision.

Report prepared by:

Bruce Zheng
Intertek Testing Services Shenzhen Ltd. Longhua Branch
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1.0 Summary of Test results

Applicant: DOKE COMMUNICATION (HK) LIMITED
Address: 19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO KONG KL
Manufacturer: Shenzhen DOKE Electronic Co., Ltd
Address: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

Model: FORT 1

FCC ID: 2A7DX-FORT1

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d), 15.209, FCC 15.205	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Note)

Note:

1. The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The equipment under test (EUT) is a Smart phone with Bluetooth 5.0 (dual-mode) function operating in 2402-2480MHz, 2.4G Wi-Fi function operating in 2412-2462MHz, 5G Wi-Fi function operating in 5150MHz~5250 MHz, 5725MHz~5850MHz, NFC function and GSM, WCDMA, LTE function. The EUT is powered by DC 3.85V from battery. For more detail information pls. refer to the user manual.

Type of Modulation: GFSK (BLE)
Antenna Type: Internal Antenna
Antenna Gain: 1.3 dBi(This information is provided by manufacturer, and the manufacturer is responsible for the authenticity of the provided information.)
Bluetooth Version: 5.0
Sample ID: Z250522061-001

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of a transceiver for the Smart phone which has BT BLE function.
For the BT EDR function was tested and demonstrated in report 250522061SZN-001.
For the 2.4GHz Wi-Fi function was tested and demonstrated in report 250522061SZN-003.
For the 5GHz Wi-Fi function was tested and demonstrated in report 250522061SZN-004.
For the GSM, WCDMA, LTE function was tested and demonstrated in report 250522061SZN-005.
For the NFC function was tested and demonstrated in report 250522061SZN-006.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst-case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The Semi-anechoic chamber and shielded room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 3.85V from battery.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The rear of unit shall be flushed with the rear of the table.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst-case configuration is used in all specified testing.

The parameters of test software setting:
During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test software: Nonsignaling operation platform

3.3 Special Accessories

N/A.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by DOKE COMMUNICATION (HK) LIMITED will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
Adaptor (Provided by applicant)	N/A	Model: QZ-0180AAA00 Input: 100-240V~, 50/60Hz, 0.5A Output: 5.0V⎓3.0A, 9.0V⎓2.0A, 12.0V⎓1.5A
USB Cable (Provided by applicant)	N/A	Shielded, Length: 100cm

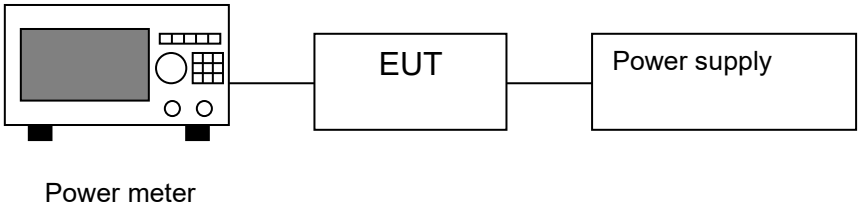
Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 27 May 2025 Model: FORT 1

4.0 Measurement Results

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter has a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

Block Diagram:



For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

BLE 1Mbps

Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2402	3.00	2.00
Middle Channel: 2440	2.43	1.75
High Channel: 2480	2.28	1.69

BLE 2Mbps

Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2402	2.87	1.94
Middle Channel: 2440	2.28	1.69
High Channel: 2480	2.16	1.64

Cable loss:0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

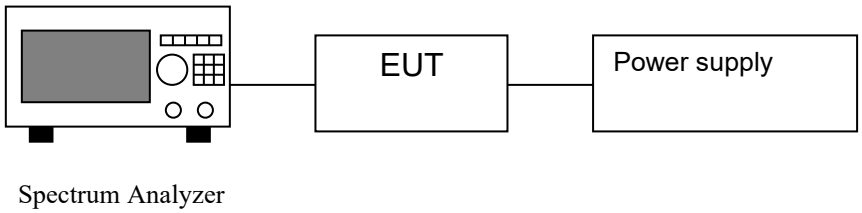
For RF Exposure, the information is saved with filename: 250522061SZN-007.pdf.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 27 May 2025 Model: FORT 1

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a display line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Block Diagram:



Limit: The 6 dB Bandwidth is at least 500 kHz.

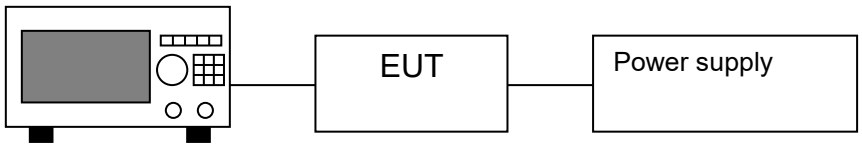
Test Result: Please refer the Appendix A of “250522061SZN-002_Appendix”.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 27 May 2025 Model: FORT 1

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.
Block Diagram:



Spectrum Analyzer

Limit: The Power Density does not exceed 8dBm/3 kHz.

Test Result: Please refer the Appendix C of “250522061SZN-002_Appendix”.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 27 May 2025 Model: FORT 1

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

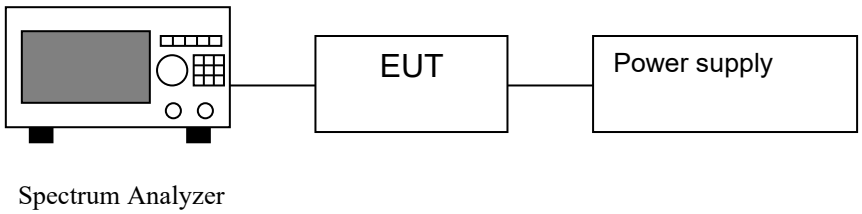
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for BLE.

The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

Block Diagram:



Test Result: Please refer the Appendix D and the Appendix E of “250522061SZN-002_Appendix”.

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

[×] Not required, since all emissions are more than 20dB below fundamental
[ ] See attached data sheet

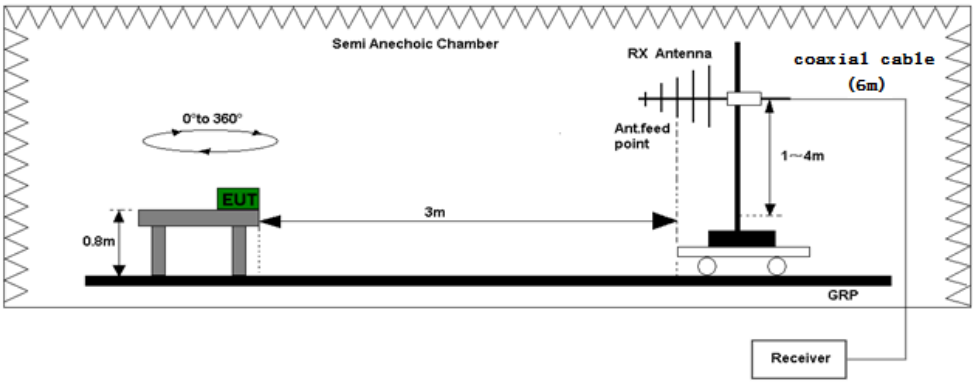
Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 07 June 2025 Model: FORT 1

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

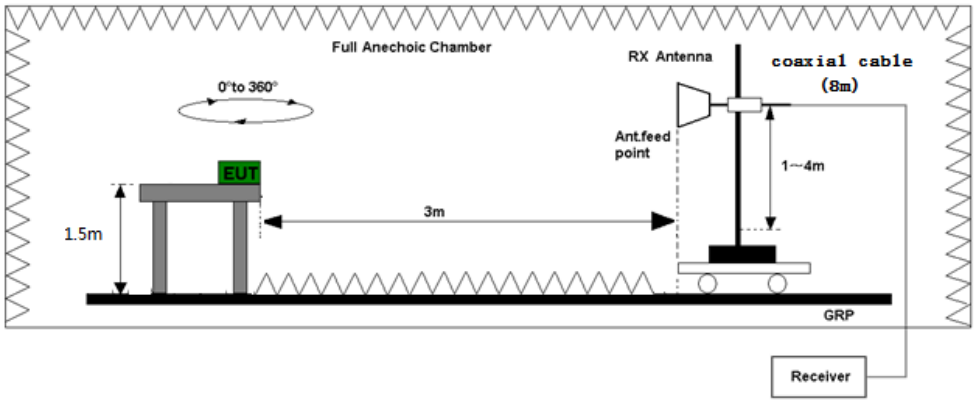
Data is included of the worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

The Diagram below shows the test setup, which is utilized to make these measurements.



Test set-up of radiated disturbance (Up to 1GHz)



Test set-up of radiated disturbance (Above 1GHz)

Radiated emission measurements were performed from 9kHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a styrene turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD

Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD

<u>Example</u>
Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 dBμV/m

Level in mV/m = Common Antilogarithm [(42 dBμV/m)/20] = 125.9 μV/m

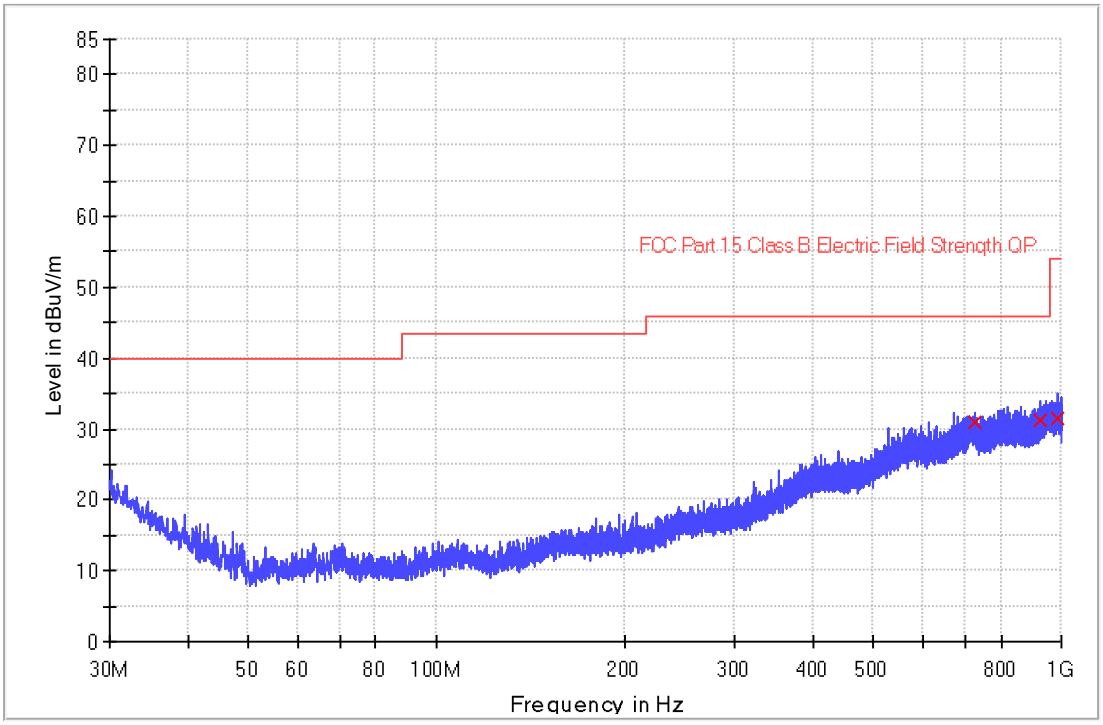
4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at 2483.500000MHz
is passed by 5.7dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf. Simultaneous transmission was considered during the test, only the worst-case data is recorded in this report.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 07 June 2025 Model: FORT 1
Worst Case Operating Mode: Transmit (2402MHz)

ANT Polarity: Horizonta



Limit and Margin

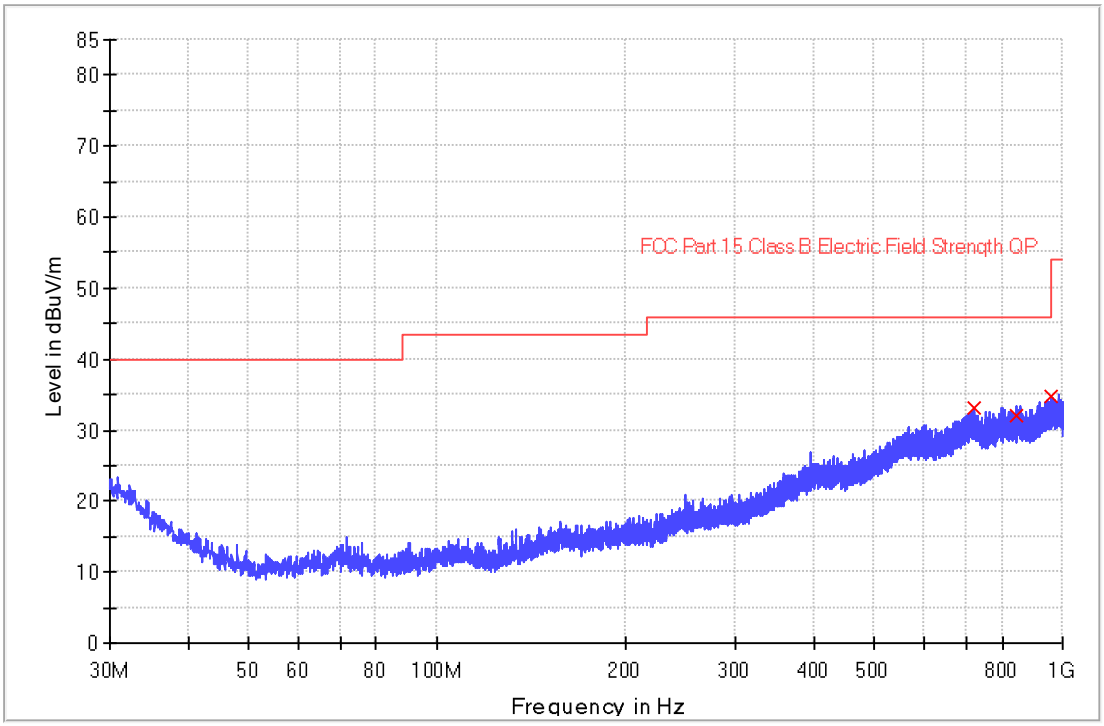
Frequency (MHz)	Quasi Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
720.240000	31.1	1000.0	120.000	H	30.9	14.9	46.0
846.240000	30.9	1000.0	120.000	H	31.8	15.1	46.0
955.920000	31.9	1000.0	120.000	H	33.7	14.1	46.0

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB/m) + Read Level (dBµV)
3. Margin (dB) = Limit Line (dBµV/m) – Level (dBµV/m)

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 07 June 2025 Model: FORT 1
Worst Case Operating Mode: Transmit (2402MHz)

ANT Polarity: Vertical



Limit and Margin

Frequency (MHz)	Quasi Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
720.240000	33.1	1000.0	120.000	V	30.9	12.9	46.0
846.240000	31.9	1000.0	120.000	V	31.8	14.1	46.0
955.920000	34.9	1000.0	120.000	V	33.7	11.1	46.0

Remark:
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB/m) + Read Level (dBµV)
3. Margin (dB) = Limit Line (dBµV/m) – Level (dBµV/m)

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 19 March 2025 Model: FORT 1
Worst Case Operating Mode: Transmitting (Channel 0)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	4804.000	49.6	36.8	33.5	46.3	74.0	-27.7
Horizontal	*2390.000	65.9	36.4	29.1	58.6	74.0	-15.4

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	4804.000	38.7	36.8	33.5	35.4	54.0	-18.6
Horizontal	*2390.000	55.4	36.4	29.1	48.1	54.0	-5.9

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

5. we pre-scan all the modes and only put the worst-case data in report.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 19 March 2025 Model: FORT 1
Worst Case Operating Mode: Transmitting (Channel 19)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*7440.000	48.2	36.7	33.4	44.9	74.0	-29.1
Horizontal	9920.000	48.1	36.6	35.8	47.3	74.0	-26.7

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*7440.000	41.7	36.7	33.4	38.4	54.0	-15.6
Horizontal	9920.000	40.6	36.6	35.8	39.8	54.0	-14.2

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

5. we pre-scan all the modes and only put the worst-case data in report.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 19 March 2025 Model: FORT 1
Worst Case Operating Mode: Transmitting (Channel 39)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*7440.000	49.9	36.8	33.3	46.4	74.0	-27.6
Horizontal	9920.000	53.0	36.5	29.3	45.8	74.0	-28.2
Horizontal	*2483.500	67.0	36.4	29.3	59.9	74.0	-14.1

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	*7440.000	42.1	36.8	33.3	38.6	54.0	-15.4
Horizontal	9920.000	46.3	36.5	29.3	39.1	54.0	-14.9
Horizontal	*2483.500	55.4	36.4	29.3	48.3	54.0	-5.7

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

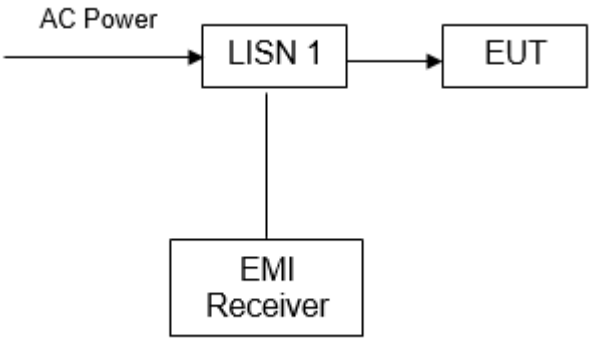
5. we pre-scan all the modes and only put the worst-case data in report.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 05 June 2025
Model: FORT 1

4.9 Conducted Emission

Block Diagram:



For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

Simultaneous transmission was considered during the test, only the worst-case data is recorded in this report.

Worst Case Conducted Emission
at 0.45MHz
is passed by 9.6dB margin.

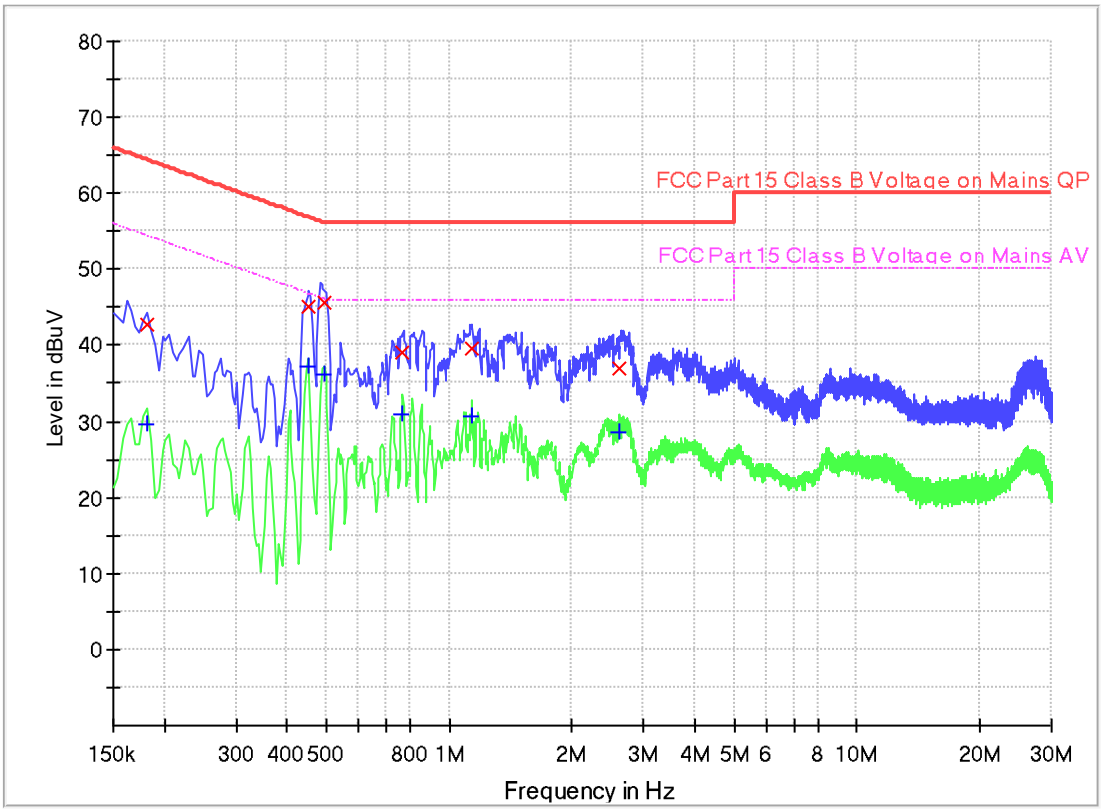
For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test:05 June 2025 Model: FORT 1
Worst Case Operating Mode: Transmit (2402MHz)
Phase: Live

Graphic / Data Table

Conducted Emissions

Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	42.7	9.000	L1	9.6	21.7	64.4
0.450000	45.1	9.000	L1	9.5	11.8	56.9
0.494000	45.5	9.000	L1	9.5	10.6	56.1
0.770000	39.2	9.000	L1	9.4	16.8	56.0
1.134000	39.6	9.000	L1	9.4	16.4	56.0
2.626000	37.0	9.000	L1	9.4	19.0	56.0

Limit and Margin AV

Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	29.7	9.000	L1	9.6	24.7	54.4
0.450000	37.3	9.000	L1	9.5	9.6	46.9
0.494000	36.2	9.000	L1	9.5	9.9	46.1
0.770000	30.8	9.000	L1	9.4	15.2	46.0
1.134000	30.7	9.000	L1	9.4	15.3	46.0
2.626000	28.6	9.000	L1	9.4	17.4	46.0

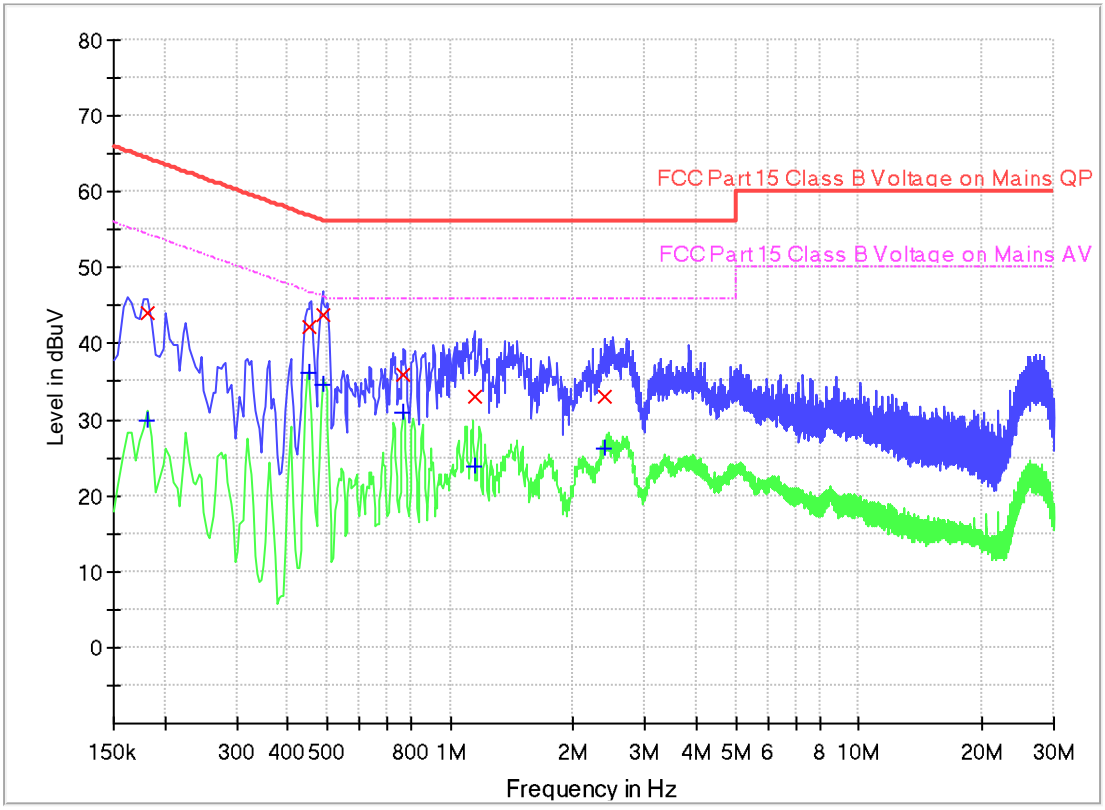
Remark:
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBµV) – Level (dBµV)

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 05 June 2025 Model: FORT 1
Worst Case Operating Mode: Transmit (2402MHz)
Phase: Neutral

Graphic / Data Table

Conducted Emissions

Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	44.1	9.000	N	9.6	20.3	64.4
0.450000	42.2	9.000	N	9.6	14.7	56.9
0.486000	43.9	9.000	N	9.6	12.3	56.2
0.770000	35.9	9.000	N	9.6	20.1	56.0
1.146000	33.2	9.000	N	9.5	22.8	56.0
2.382000	32.9	9.000	N	9.6	23.1	56.0

Limit and Margin AV

Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	29.8	9.000	N	9.6	24.6	54.4
0.450000	36.3	9.000	N	9.6	10.6	46.9
0.486000	34.6	9.000	N	9.6	11.6	46.2
0.770000	31.0	9.000	N	9.6	15.0	46.0
1.146000	23.9	9.000	N	9.5	22.1	46.0
2.382000	26.3	9.000	N	9.6	19.7	46.0

Remark:
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBµV) – Level (dBµV)

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 27 May 2025
Model: FORT 1

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

[ ] Not required - No digital part

[ ] Test results are attached

[x] Included in the separated report.

Applicant: DOKE COMMUNICATION (HK) LIMITED
Date of Test: 27 May 2025
Model: FORT 1

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to zero SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, Spectrum Analysis ... Pulsed RF.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	2025-04-21	2026-04-21
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	2025-04-21	2026-04-21
SZ061-13	BiConiLog Antenna	ETS	3142E	00217919	2022-07-13	2025-07-13
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2024-05-05	2027-05-05
SZ185-03	EMI Receiver	R&S	ESR7	101975	2025-04-13	2026-04-13
SZ061-08	Double - Ridged Waveguide Horn Antenna	ETS	3115	00092346	2024-09-13	2027-09-13
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2024-12-06	2025-12-06
SZ181-08	Microwave System Amplifier	keysight	83017A	MY57280108	2024-07-29	2025-07-29
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	CT001880-Q13914102	2021-05-25	2026-05-25
SZ062-02	RF Cable	RADIALL	RG 213U	--	2025-05-01	2025-11-01
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	0833254	2025-05-01	2025-11-01
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	083387	2025-05-01	2025-11-01
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2024-07-09	2025-07-09
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	2025-04-25	2026-04-25
SZ188-03	Shielding Room	ETS	RFD-100	4100	2022-12-20	2025-12-20
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127-2231000	2024-07-10	2025-07-10

********** End of Report**********