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Report No.: 1711RSU00102 Report Version: V01 Issue Date: 12-25-2017

MEASUREMENT REPORT

FCC PART 15.247 Bluetooth BLE

FCC ID: 2AC6AC70

APPLICANT: Shenzhen Chainway Information Technology Co., Ltd.

Application Type: Certification

Product: Mobile Data Terminal

Model No.: C70

Brand Name: CHAINWAY

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v04

Test Date: November 2 ~ November 30, 2017

Reviewed By : Kaim Cruo

(Kevin Guo)

Approved By : Marlinchen

(Marlin Chen)



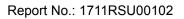


The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v04. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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Revision History

Report No.	Version	Description	Issue Date	Note
1711RSU00102	Rev. 01	Initial report	12-25-2017	Valid

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§2.1033 General Information

Applicant:	Shenzhen Chainway Information Technology Co., Ltd.				
Applicant Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67,				
	Bao'an, Shenzhen, China				
Manufacturer:	Shenzhen Chainway Information Technology Co., Ltd.				
Manufacturer Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67,				
	Bao'an, Shenzhen, China				
Test Site:	MRT Technology (Suzhou) Co., Ltd				
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong				
	Economic Development Zone, Suzhou, China				
MRT Registration No.:	893164				
MRT designation No.:	CN1166				
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering				

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



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1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



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2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	Mobile Data Terminal
Model No.	C70
Brand Name:	CHAINWAY
Hardware Version:	C70SEA_mb_v12
Software Version:	C70A_MT6735_V1.2_AM_GIT55c9324_20171104
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.0 single mode
GSM Operation Band (s):	E-GSM 850 / DCS 1900
WCDMA Operation Band (s):	Band II / IV / V
LTE Operation Band (s):	FDD Band 2 / 4 / 7 / 12 / 17
NFC:	13.56MHz
GPS:	1575.42MHz
Components	
Adapter	Model No.: GME10D-050200FUu
	Input Power: 100 - 240V ~ 50 - 60Hz, 0.28A
	Output Power: 5VDC 2A

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps(GFSK)

Note: For other features of this EUT, test report will be issued separately.

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2.3. Working Frequencies

Channel List for BLE

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				

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2.4. Description of Available Antennas

Antenna Type	Frequency Band	Max Peak Gain (dBi)	
GPS Internal Antenna		•	
PIFA	1575.42MHz	0.92	
2G Internal Antenna			
DIEA	GSM850	-1.00	
PIFA	GSM1900	-0.40	
3G Internal Antenna			
	WCDMA Band II	0.45	
PIFA	WCDMA Band IV	-0.70	
	WCDMA Band V	-1.15	
4G Internal Antenna			
	FDD-LTE Band 2	0.50	
	FDD-LTE Band 4	0.51	
PIFA	FDD-LTE Band 7	-0.78	
	FDD-LTE Band 12	-0.47	
	FDD-LTE Band 17	-0.92	
Wi-Fi Internal Antenna			
	2400 ~ 2483.5MHz	0.58	
DIEA	5150 ~ 5250MHz	0.70	
PIFA	5250 ~ 5350MHz	0.71	
	5725 ~ 5850MHz	0.72	
Bluetooth Internal Antenn	a		
PIFA	2400 ~ 2483.5MHz	0.58	
NFC Internal Antenna	-		
PIFA	13.56MHz	1.20	

2.5. Test Mode

Test Mode	Mode 1: Transmit by BLE
	····································

2.6. Test Software

The test utility software used during testing was supplied by manufacturer.

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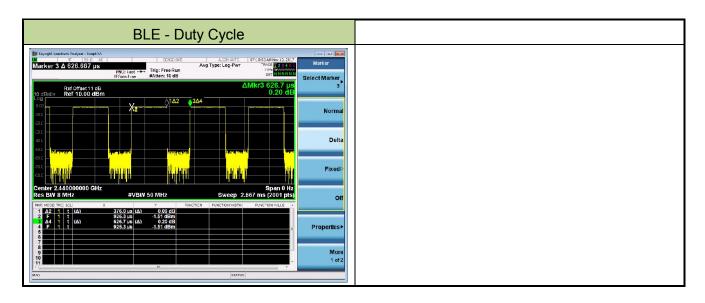
2.7. Device Capabilities

This device contains the following capabilities:

GSM 850/900/1800/1900, WCDMA Band II/IV//V, LTE FDD Band 2/4/7/12/17, 2.4GHz WLAN (DTS), 5GHz WLAN (UNII), Bluetooth (v4.0 single mode), NFC.

Note: The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01v04. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle		
BLE	60.0%		



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2.8. Test Configuration

The **Mobile Data Terminal** was tested per the guidance of KDB 558074 D01v04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

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3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v04 were used in the measurement of the **Mobile Data Terminal**.

Deviation from measurement procedure......None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50uH$ Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

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3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive Antenna height using a broadband Antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. For frequencies below 30MHz, a calibrated loop Antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband Antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive Antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn Antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive Antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive Antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.

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4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"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."

- The antenna of the Mobile Data Terminal is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The **Mobile Data Terminal** unit complies with the requirement of §15.203.

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5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2018/04/25
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2018/06/21
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2018/06/21
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06181	1 year	2017/12/22
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	MRTSUE06214	1 year	2018/05/10

Radiated Emission - AC1

Instrument	Manufacturer	Туре No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2018/08/18
PXA Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2018/09/30
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2018/11/20
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2018/11/18
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2018/10/21
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2018/11/17
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2018/01/04
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06183	1 year	2017/12/22
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2018/05/10

Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2018/04/25
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2018/12/06
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06180	1 year	2017/12/22

Software	Version	Function
e3	V8.3.5	EMI Test Software

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6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: 3.46dB

Radiated Emission Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB 1GHz ~ 25GHz: 4.76dB

Spurious Emissions, Conducted - TR3

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.78dB

Output Power - TR3

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.13dB

Power Spectrum Density - TR3

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.15dB

Occupied Bandwidth - TR3

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.28%

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7. TEST RESULT

7.1. Summary

Company Name: <u>Shenzhen Chainway Information Technology Co., Ltd.</u>

FCC ID: <u>2AC6AC70</u>

FCC Classification: <u>Digital Transmission System (DTS)</u>

Data Rate(s) Tested: 1Mbps(GFSK) (BLE)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section 7.2
15.247(b)(3)	Output Power	≤ 1Watt	Conducted	Pass	Section 7.3
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz	Conducted	Pass	
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.

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7.2. 6dB Bandwidth Measurement

7.2.1.Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

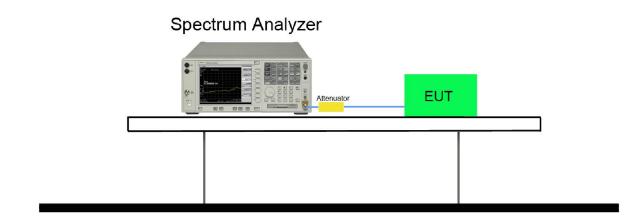
7.2.2.Test Procedure used

KDB 558074 D01v04 - Section 8.2 Option 2

7.2.3.Test Setting

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. Allow the trace was allowed to stabilize

7.2.4.Test Setup



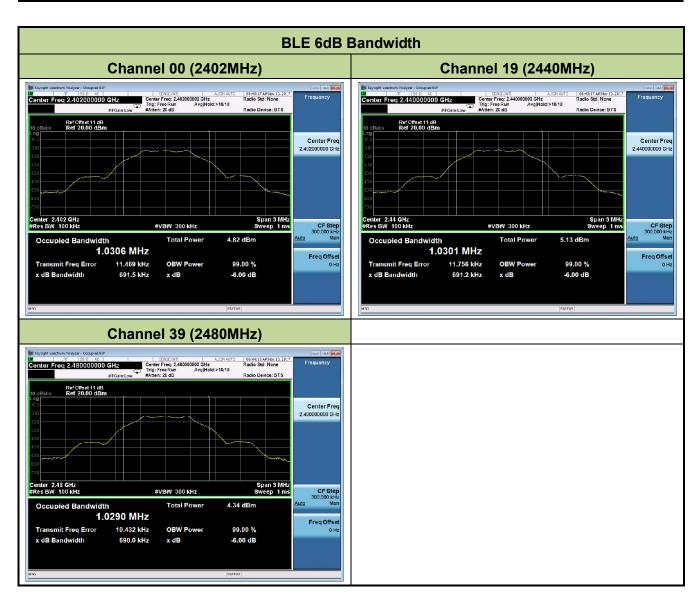
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7.2.5.Test Result

Product	Mobile Data Terminal	Temperature	23°C
Test Engineer	Hunk Li	Relative Humidity	54%
Test Site	TR3	Test Date	2017/11/10
Test Item	6dB Bandwidth		

Test Mode	Data Rate	Channel No.	Frequency	6dB Bandwidth	Limit	Result
	(Mbps)		(MHz)	(MHz)	(MHz)	
BLE	1	00	2402	0.69	≥ 0.5	Pass
BLE	1	19	2440	0.69	≥ 0.5	Pass
BLE	1	39	2480	0.69	≥ 0.5	Pass



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7.3. Output Power Measurement

7.3.1.Test Limit

The maximum out power shall be less 1 Watt (30dBm).

7.3.2.Test Procedure Used

KDB 558074 D01v04 - Section 9.1.2 PKPM1 - Peak Power Method

KDB 558074 D01v04 - Section 9.2.3.2 AVGPM-G Average Power Method

7.3.3.Test Setting

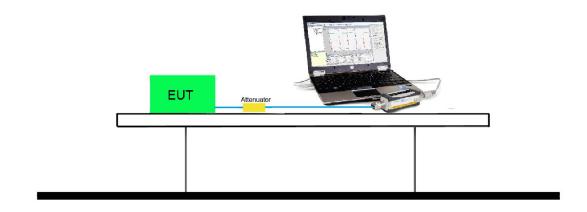
Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Average Power Measurement

Average power measurements were perform only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

7.3.4.Test Setup



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7.3.5.Test Result of Output Power

Product	Mobile Data Terminal	Temperature	23°C
Test Engineer	Hunk Li	Relative Humidity	54%
Test Site	TR3	Test Date	2017/11/10
Test Item	Output Power		

Test Result of Peak Output Power

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1	00	2402	-0.71	≤ 30	Pass
BLE	1	19	2440	-0.45	≤ 30	Pass
BLE	1	39	2480	-1.12	≤ 30	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
	(WDP3)		(1411 12)	1 OWEI (dBIII)	(dDIII)	
BLE	1	00	2402	-1.29	≤ 30	Pass
BLE	1	19	2440	-0.96	≤ 30	Pass
BLE	1	39	2480	-1.68	≤ 30	Pass

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7.4. Power Spectral Density Measurement

7.4.1.Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

7.4.2.Test Procedure Used

KDB 558074 D01v04 - Section 10.2 Method PKPSD

7.4.3.Test Setting

- 1) Analyzer was set to the center frequency of the DTS channel under investigation
- 2) Span = 1.5 times the DTS channel bandwidth
- 3) RBW = 3kHz
- 4) VBW = 10kHz
- 5) Detector = peak
- 6) Sweep time = auto couple
- 7) Trace mode = max hold
- 8) Trace was allowed to stabilize

7.4.4.Test Setup

Spectrum Analyzer Attenuator EUT

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7.4.5.Test Result

Product	Mobile Data Terminal	Temperature	23°C
Test Engineer	Hunk Li	Relative Humidity	54%
Test Site	TR3	Test Date	2017/11/10
Test Item	Power Spectral Density		

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-16.95	≤ 8	Pass
BLE	1	19	2440	-16.60	≤ 8	Pass
BLE	1	39	2480	-17.39	≤ 8	Pass



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7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1.Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

7.5.2.Test Procedure Used

KDB 558074 D01v04 - Section 11.2 & Section 11.3

7.5.3.Test Settitng

Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize

Emission level measurement

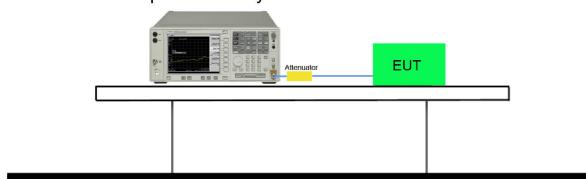
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Number of sweep points ≥ 2 x Span/RBW
- 6. Trace mode = max hold
- 7. Sweep time = auto couple
- 8. The trace was allowed to stabilize

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7.5.4.Test Setup





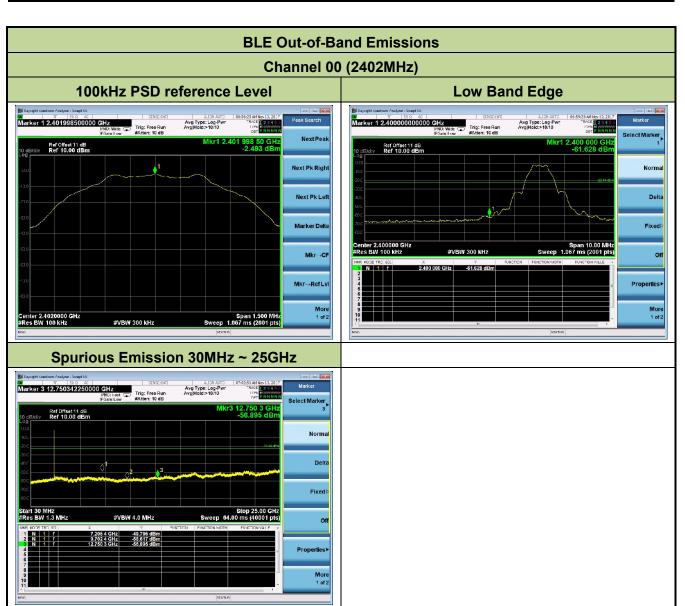
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7.5.5.Test Result

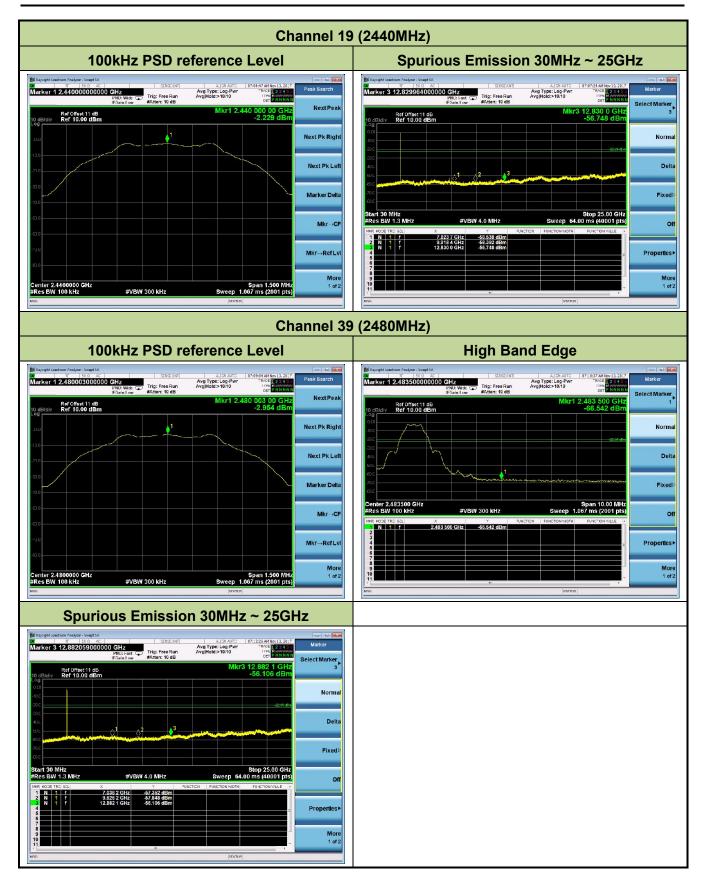
Product	Mobile Data Terminal	Temperature	23°C		
Test Engineer	Hunk Li	Relative Humidity	54%		
Test Site	TR3	2017/11/10			
Test Item	Conducted Band Edge and Out-of-Band Emissions				

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20dBc	Pass
BLE	1	19	2440	20dBc	Pass
BLE	1	39	2480	20dBc	Pass



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7.6. Radiated Spurious Emission Measurement

7.6.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209								
Frequency	Field Strength	Measured Distance						
[MHz]	[uV/m]	[Meters]						
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						

7.6.2.Test Procedure Used

KDB 558074 D01v04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04 - Section 12.2.5 (average power measurements)

7.6.3.Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

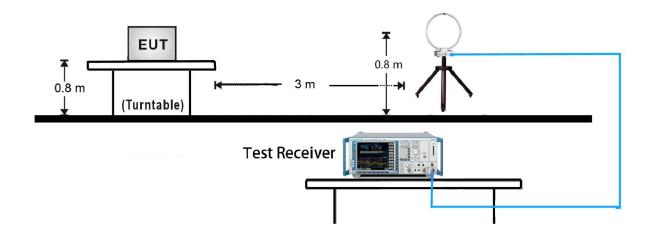
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

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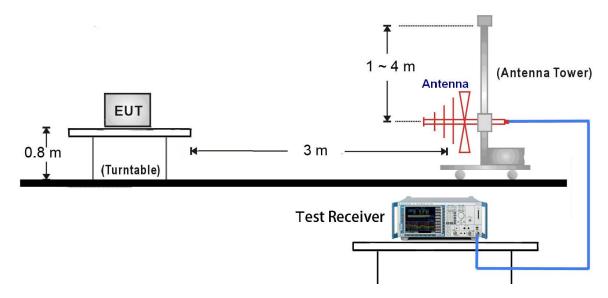


7.6.4.Test Setup

9kHz ~ 30MHz Test Setup:



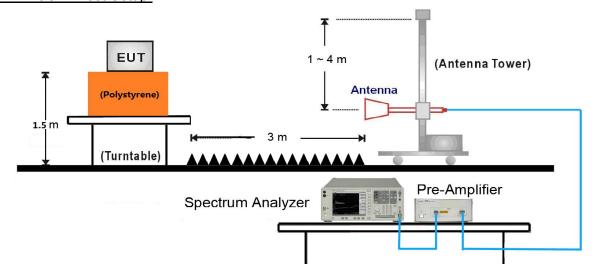
30MHz ~ 1GHz Test Setup:



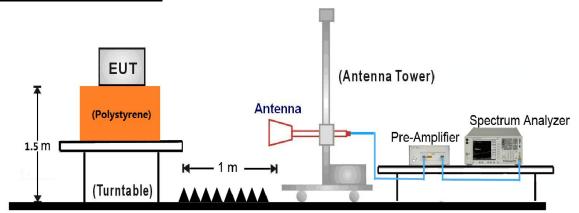
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1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



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7.6.5.Test Result

Product	Mobile Data Terminal	Temperature	26°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2017/11/19
Test Mode:	BLE	Test Channel:	00
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ç

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
*	7774.5	34.4	8.2	42.6	74.0	-31.4	Peak	Horizontal
*	8675.5	35.7	8.9	44.6	74.0	-29.4	Peak	Horizontal
	9398.0	33.4	10.5	43.9	74.0	-30.1	Peak	Horizontal
	11081.0	34.9	12.9	47.8	74.0	-26.2	Peak	Horizontal
*	7987.0	35.2	8.7	43.9	74.0	-30.1	Peak	Vertical
*	8820.0	32.9	9.0	41.9	74.0	-32.1	Peak	Vertical
	9440.5	34.9	10.5	45.4	74.0	-28.6	Peak	Vertical
	10843.0	34.6	12.7	47.3	74.0	-26.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Mobile Data Terminal	Temperature	26°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2017/11/19
Test Mode:	BLE	Test Channel:	19
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ç

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
*	7885.0	35.3	8.3	43.6	74.0	-30.4	Peak	Horizontal
*	8718.0	33.2	9.0	42.2	74.0	-31.8	Peak	Horizontal
	9304.5	35.1	10.4	45.5	74.0	-28.5	Peak	Horizontal
	10826.0	35.9	12.7	48.6	74.0	-25.4	Peak	Horizontal
*	7978.5	34.9	8.7	43.6	74.0	-30.4	Peak	Vertical
*	8803.0	34.0	8.9	42.9	74.0	-31.1	Peak	Vertical
	9457.5	35.4	10.5	45.9	74.0	-28.1	Peak	Vertical
	10868.5	35.1	12.8	47.9	74.0	-26.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Mobile Data Terminal	Temperature	26°C						
Test Engineer	Dandy Li	Relative Humidity	56%						
Test Site	AC2	Test Date	2017/11/19						
Test Mode:	BLE	Test Channel:	39						
Remark:		Average measurement was not performed if peak level lower than average							
	limit.								
	in the report.	Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.							

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
*	7868.0	34.9	8.4	43.3	74.0	-30.7	Peak	Horizontal
*	8837.0	35.2	9.1	44.3	74.0	-29.7	Peak	Horizontal
	9338.5	35.6	10.4	46.0	74.0	-28.0	Peak	Horizontal
	10979.0	35.5	13.0	48.5	74.0	-25.5	Peak	Horizontal
*	7859.5	34.0	8.4	42.4	74.0	-31.6	Peak	Vertical
*	8769.0	33.6	8.9	42.5	74.0	-31.5	Peak	Vertical
	9347.0	33.0	10.5	43.5	74.0	-30.5	Peak	Vertical
	10979.0	35.5	13.0	48.5	74.0	-25.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.7dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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The worst case of Radiated Emission below 1GHz:

Note: There is the worst case within frequency range 30MHz~1GHz.					
EUT: Mobile Data Terminal	Power: AC 120V/60Hz				
Probe: VULB9168_20-2000MHz	Polarity: Horizontal				
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan				
Site: AC1	Time: 2017/11/19 - 17:03				

90 80 70 60 40 20 10 10 30 100

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	32.910	16.620	2.893	-23.380	40.000	13.727	QP
2			72.195	9.115	-2.041	-30.885	40.000	11.157	QP
3			155.130	13.740	-1.445	-29.760	43.500	15.185	QP
4			317.120	13.125	-1.642	-32.875	46.000	14.767	QP
5			482.990	17.374	-0.852	-28.626	46.000	18.226	QP
6			696.875	20.675	-1.295	-25.325	46.000	21.969	QP

Frequency(MHz)

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

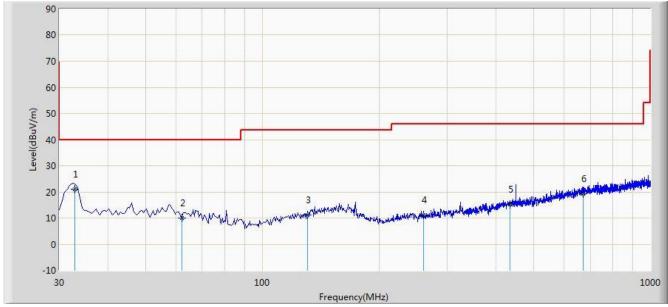
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.

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Note: There is the worst case within frequency range 30MHz~1GHz					
EUT: Mobile Data Terminal	Power: AC 120V/60Hz				
Probe: VULB9168_20-2000MHz	Polarity: Vertical				
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan				
Site: AC1	Time: 2017/11/19 - 17:04				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	32.910	20.883	7.156	-19.117	40.000	13.727	QP
2			62.010	9.990	-3.001	-30.010	40.000	12.991	QP
3			130.880	11.207	-2.582	-32.293	43.500	13.789	QP
4			260.860	11.257	-1.913	-34.743	46.000	13.170	QP
5			434.490	15.245	-2.191	-30.755	46.000	17.436	QP
6			670.685	19.158	-2.492	-26.842	46.000	21.650	QP

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.

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7.7. Radiated Restricted Band Edge Measurement

7.7.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency	Frequency	Frequency	Frequency
(MHz)	(MHz)	(MHz)	(GHz)
0.090 - 0.110	16.42-16.423	399.9 - 410	4.5-5.15
¹ 0.495 - 0.505	16.69475-16.69525	608 - 614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960 - 1240	7.25-7.75
4.125-4.128	25.5 -25.67	1300 - 1427	8.25 - 8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660 - 1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123 - 138	2200 - 2300	14.47-14.5
8.291-8.294	149.9-150.05	2310–2390	15.35-16.2
8.362-8.366	156.52475-156.525	2483.5 - 2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690 - 2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260 - 3267	23.6-24.0
12.29-12.293	167.72-173.2	3332 - 3339	31.2-31.8
12.51975-12.52025	240 - 285	3345.8 - 3358	36.43-36.5
12.57675-12.57725	322-335.4	3600 - 4400	(²)
13.36-13.41			

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All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209							
Frequency	Measured Distance						
[MHz]	[uV/m]	[Meters]					
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					

7.7.2.Test Procedure Used

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04 - Section 13.3.3 (average power measurements)

7.7.3.Test Setting

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

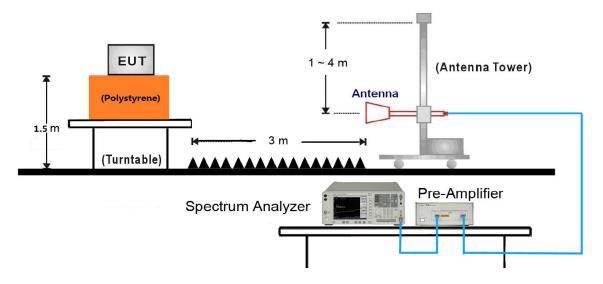
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Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.7.4.Test Setup

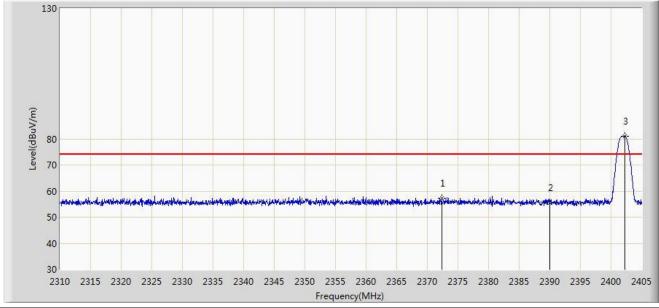


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7.7.5.Test Result

Site: AC1	Time: 2017/11/19 - 12:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Mobile Data Terminal	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2402MHz	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2372.367	57.293	26.058	-16.707	74.000	31.236	PK
2			2390.000	55.414	24.211	-18.586	74.000	31.203	PK
3		*	2402.245	81.093	49.909	N/A	N/A	31.184	PK

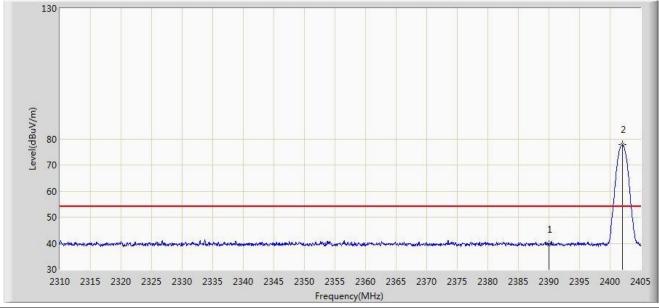
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/11/19 - 12:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Mobile Data Terminal	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2402MHz	



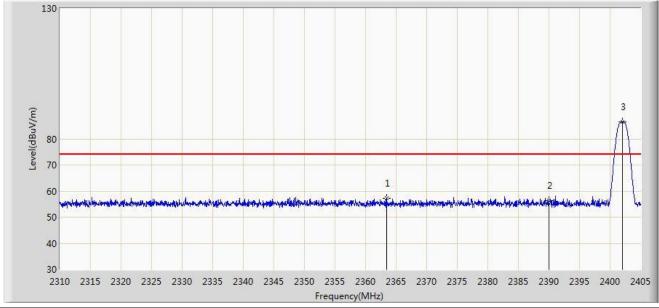
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	39.451	8.248	-14.549	54.000	31.203	AV
2		*	2402.008	77.690	46.506	N/A	N/A	31.184	AV

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/11/19 - 12:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Mobile Data Terminal	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2402MHz	



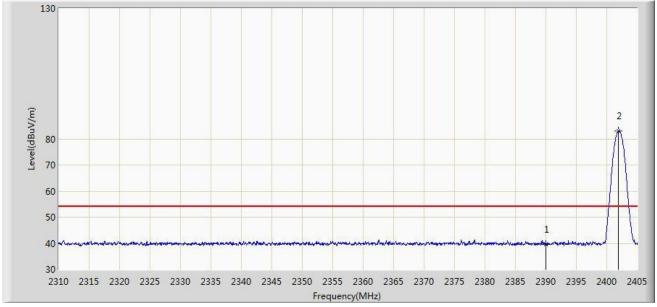
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2363.485	57.362	26.110	-16.638	74.000	31.252	PK
2			2390.000	56.377	25.174	-17.623	74.000	31.203	PK
3		*	2402.008	86.450	55.266	N/A	N/A	31.184	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/11/19 - 12:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Mobile Data Terminal	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2402MHz	



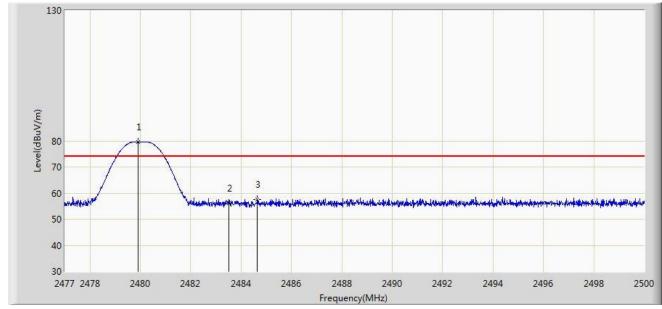
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	39.590	8.387	-14.410	54.000	31.203	AV
2		*	2401.960	83.005	51.821	N/A	N/A	31.184	AV

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/11/19 - 12:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Mobile Data Terminal	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2480MHz	



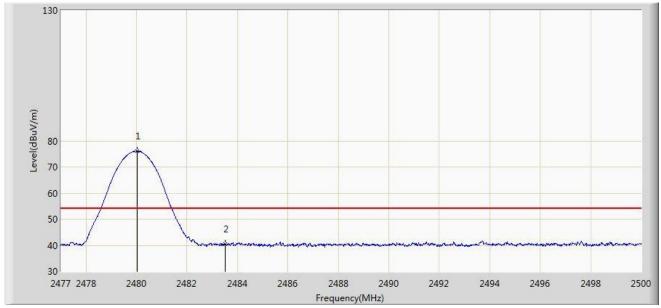
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.921	79.534	48.350	N/A	N/A	31.184	PK
2			2483.500	56.226	25.033	-17.774	74.000	31.194	PK
3			2484.647	57.662	26.466	-16.338	74.000	31.197	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/11/19 - 12:15			
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Mobile Data Terminal	Power: AC 120V/60Hz			
Test Mode: Transmit by BLE at channel 2480MHz				



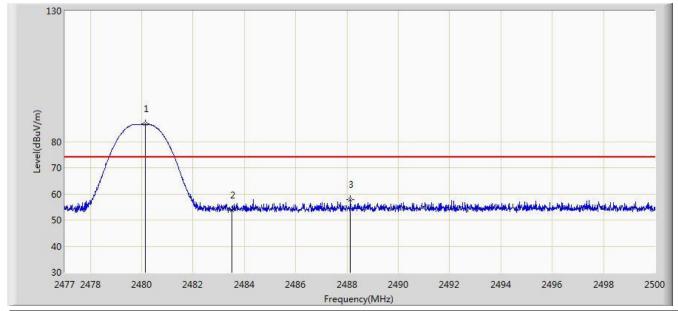
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.024	76.042	44.858	N/A	N/A	31.184	AV
2			2483.500	40.294	9.101	-13.706	54.000	31.194	AV

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/12/04 - 23:38			
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Mobile Data Terminal	Power: AC 120V/60Hz			
Test Mode: Transmit by BLE at channel 2480MHz				



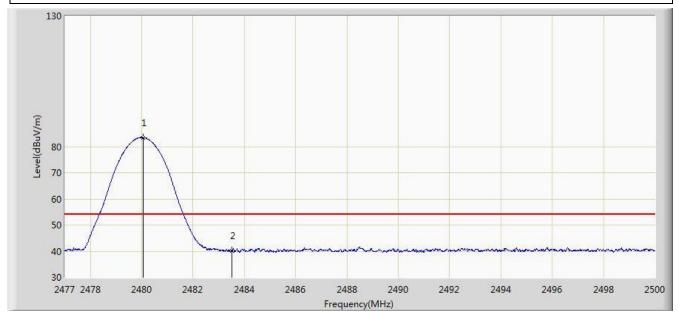
N	FI	М	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
О	ag	ar	(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
		k		(dBuV/m)	(dBuV)				
1		*	2480.139	86.689	55.505	N/A	N/A	31.185	PK
2			2483.500	53.827	22.634	-20.173	74.000	31.194	PK
3			2488.132	57.932	26.726	-16.068	74.000	31.206	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2017/12/05 - 00:39		
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan		
Probe: BBHA9120D_1-18GHz	Polarity: Vertical		
EUT: Mobile Data Terminal	Power: AC 120V/60Hz		
Test Mode: Transmit by BLE at channel 2480MHz			



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.059	83.372	52.188	N/A	N/A	31.184	AV
2			2483.500	40.174	8.981	-13.826	54.000	31.194	AV

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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7.8. AC Conducted Emissions Measurement

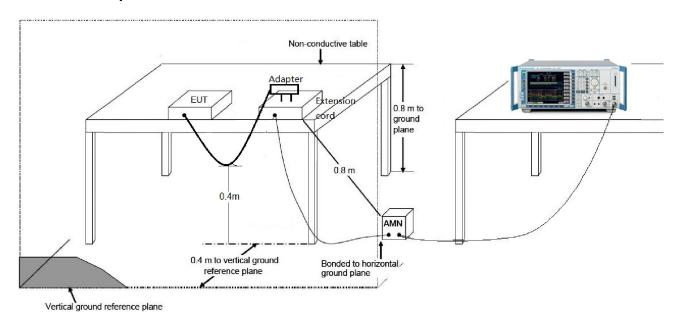
7.8.1.Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits							
Frequency (MHz)	QP (dBuV)	AV (dBuV)					
0.15 - 0.50	66 - 56	56 - 46					
0.50 - 5.0	56	46					
5.0 - 30	60	50					

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2.Test Setup

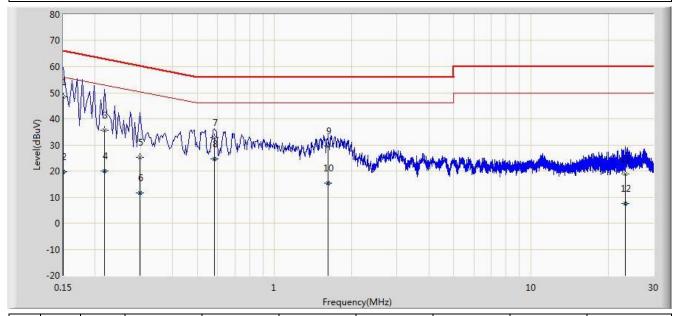


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7.8.3.Test Result

Site: SR2	Time: 2017/11/12 - 12:06			
Limit: FCC_Part15.207_CE_AC Power	Engineer: Polly Zong			
Probe: ENV216_101683_Filter On	Polarity: Line			
EUT: Mobile Data Terminal	Power: AC 120V/60Hz			
Worst Case Mode: Transmit by BLE at channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1		*	0.150	48.275	37.107	-17.725	66.000	11.168	QP
2			0.150	19.583	8.415	-36.417	56.000	11.168	AV
3			0.218	35.683	25.738	-27.212	62.895	9.945	QP
4			0.218	19.941	9.996	-32.954	52.895	9.945	AV
5			0.298	25.228	15.225	-35.071	60.298	10.002	QP
6			0.298	11.453	1.451	-38.845	50.298	10.002	AV
7			0.582	32.840	22.716	-23.160	56.000	10.124	QP
8			0.582	24.614	14.491	-21.386	46.000	10.124	AV
9			1.618	29.521	19.636	-26.479	56.000	9.885	QP
10			1.618	15.383	5.498	-30.617	46.000	9.885	AV
11			23.274	18.926	8.736	-41.074	60.000	10.190	QP
12			23.274	7.406	-2.784	-42.594	50.000	10.190	AV

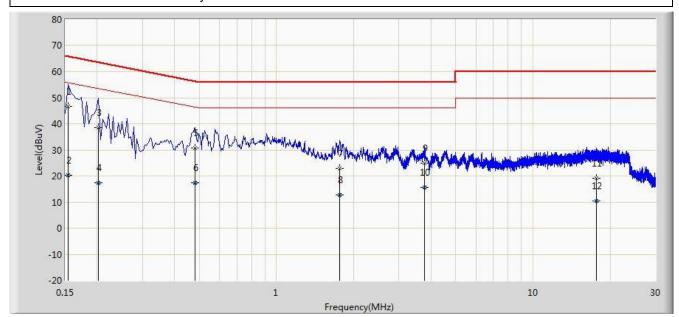
Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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Site: SR2	Time: 2017/11/12 - 12:13			
Limit: FCC_Part15.207_CE_AC Power	Engineer: Polly Zong			
Probe: ENV216_101683_Filter On	Polarity: Neutral			
EUT: Mobile Data Terminal	Power: AC 120V/60Hz			
Worst Case Mode: Transmit by BLE at channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1		*	0.154	46.779	36.063	-19.003	65.781	10.716	QP
2			0.154	20.268	9.553	-35.513	55.781	10.716	AV
3			0.202	38.552	28.544	-24.976	63.528	10.008	QP
4			0.202	17.534	7.526	-35.994	53.528	10.008	AV
5			0.482	30.588	20.415	-25.716	56.305	10.173	QP
6			0.482	17.411	7.237	-28.894	46.305	10.173	AV
7			1.766	22.842	12.960	-33.158	56.000	9.881	QP
8			1.766	12.773	2.892	-33.227	46.000	9.881	AV
9			3.786	25.011	15.045	-30.989	56.000	9.965	QP
10			3.786	15.672	5.707	-30.328	46.000	9.965	AV
11			17.630	19.030	8.901	-40.970	60.000	10.130	QP
12			17.630	10.330	0.201	-39.670	50.000	10.130	AV

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Mobile Data Terminal** is in compliance with Part 15C of the FCC Rules.

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The End