

MRT Technology (Suzhou) Co., Ltd

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MEASUREMENT REPORT

FCC PART 15.247 BT v4.0

FCC ID: 2AIV6-T298S

APPLICANT: Shenzhen Inrico Electronics Co., Ltd

Application Type: Certification

Product: Smart Phone

Model No.: T298S

Brand Name: Inrico

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15.247

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v03r05

Test Date: June 14 ~ 16, 2016

Reviewed By

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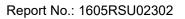


The test results relate only to the samples tested.

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 D01v03r05. Test results reported herein relate only to the item(s) tested.

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FCC ID: 2AIV6-T298S Page Number: 1 of 50





Revision History

Report No.	Version	Description	Issue Date	Note
1605RSU02302	Rev. 01	Initial report	09-07-2016	Invalid
1605RSU02302	Rev. 02	Change the product name	10-10-2016	Valid

FCC ID: 2AIV6-T298S Page Number: 2 of 50



CONTENTS

De	scriptic	on	Page
1.	INTR	ODUCTION	6
	1.1.	Scope	6
	1.2.	MRT Test Location	6
2.	PROI	DUCT INFORMATION	7
	2.1.	Feature of Equipment under Test	7
	2.2.	Equipment Description	
	2.3.	Working Frequencies	8
	2.4.	Device Capabilities	9
	2.5.	Test Configuration	9
	2.6.	EMI Suppression Device(s)/Modifications	9
	2.7.	Labeling Requirements	9
	2.8.	Test Software	9
3.	DESC	CRIPTION OF TEST	10
	3.1.	Evaluation Procedure	10
	3.2.	AC Line Conducted Emissions	
	3.3.	Radiated Emissions	11
4.	ANTE	ENNA REQUIREMENTS	12
5.	TEST	EQUIPMENT CALIBRATION DATE	13
6.	MEAS	SUREMENT UNCERTAINTY	14
7.	TEST	RESULT	15
	7.1.	Summary	15
	7.2.	6dB Bandwidth Measurement	16
	7.2.1.	Test Limit	16
	7.2.2.	Test Procedure used	16
	7.2.3.	Test Setting	16
	7.2.4.	Test Setup	16
	7.2.5.	Test Result	17
	7.3.	Output Power Measurement	18
	7.3.1.	Test Limit	18
	7.3.2.	Test Procedure Used	18
	7.3.3.	Test Setting	18
	7.3.4.	Test Setup	18
	7.3.5.	Test Result of Output Power	19
	7.4.	Power Spectral Density Measurement	20



7.4.1.	Test Limit	20
7.4.2.	Test Procedure Used	20
7.4.3.	Test Setting	20
7.4.4.	Test Setup	20
7.4.5.	Test Result	21
7.5.	Conducted Band Edge and Out-of-Band Emissions	22
7.5.1.	Test Limit	22
7.5.2.	Test Procedure Used	22
7.5.3.	Test Settitng	22
7.5.4.	Test Setup	23
7.5.5.	Test Result	24
7.6.	Radiated Spurious Emission Measurement	26
7.6.1.	Test Limit	26
7.6.2.	Test Procedure Used	26
7.6.3.	Test Setting	26
7.6.4.	Test Setup	28
7.6.5.	Test Result	30
7.7.	Radiated Restricted Band Edge Measurement	39
7.7.1.	Test Result	39
7.8.	AC Conducted Emissions Measurement	47
7.8.1.	Test Limit	47
7.8.2.	Test Setup	47
7.8.3.	Test Result	48
CONC	CLUSION	50

8.



§2.1033 General Information

Applicant:	Shenzhen Inrico Electronics Co., Ltd
Applicant Address:	4/F, Building NO.108, High Tech Industrial Park, Guowei Road 72, Luohu
	District, 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.:	809388
FCC Rule Part(s):	Part 15.247
Model No.:	T298S
FCC ID:	2AIV6-T298S
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering
FCC Classification:	Digital Transmission System (DTS)

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. 809388) 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-4179, G-814, C-4664, T-2206) 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.



FCC ID: 2AIV6-T298S Page Number: 5 of 50



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, Youxin Industrial Park, 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.



FCC ID: 2AIV6-T298S Page Number: 6 of 50



2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	Smart Phone
Model No.	T298S
Brand Name:	Inrico
Antenna Type	Internal
Wi-Fi Specification	802.11b/g/n-HT20/n-HT40
Bluetooth Version	v3.0 + HS, v4.0
GPS Frequency	1575.42MHz
GSM Operation Band (s)	GSM850 / PCS1900
WCDMA Operation Band (s)	Band II, Band V

2.2. Equipment Description

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	v4.0
Type of modulation	FHSS
Data Rate	1Mbps(GFSK)
Antenna Type	Internal
Antenna Gain	1.45dBi

FCC ID: 2AIV6-T298S Page Number: 7 of 50



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				

FCC ID: 2AIV6-T298S Page Number: 8 of 50



2.4. Device Capabilities

This device contains the following capabilities: 802.11b/g/n WLAN (DTS), Bluetooth (v3.0 + HS, v4.0), GSM850/PCS1900/WCDMA/HSDPA/HSUPA Band II & V

2.5. Test Configuration

The **Smart Phone** was tested per the guidance of KDB 558074 D01v03r05. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.6. EMI Suppression Device(s)/Modifications

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

2.7. 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.

2.8. Test Software

The test utility software used during testing was "Dos instructions".

FCC ID: 2AIV6-T298S Page Number: 9 of 50



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 D01v03r05 were used in the measurement of the **Smart Phone**.

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, $50\Omega/50$ uH 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 at Clause 4.2.

Line conducted emissions test results are shown in Section 7.8.

FCC ID: 2AIV6-T298S Page Number: 10 of 50



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.

FCC ID: 2AIV6-T298S Page Number: 11 of 50



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 Smart Phone is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The **Smart Phone** unit complies with the requirement of §15.203.

FCC ID: 2AIV6-T298S Page Number: 12 of 50



5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	101683	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	101684	1 year	2016/11/03
Temperature/Humidity Meter	Yuhuaze	HTC-2	N/A	1 year	2016/12/20
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	N/A	1 year	2017/05/10

Radiated Emission - AC2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9038A	MY51210182	1 year	2017/08/03
EMI Test Receiver	R&S	ESR7	101209	1 year	2016/11/03
Preamplifier	Schwarzbeck	BBV 9721	9721-008	1 year	2017/04/16
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	1 year	2016/12/15
TRILOG Antenna	Schwarzbeck	VULB9168	662	1 year	2016/11/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2016/11/07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	1 year	2016/11/07
Digital Thermometer & Hygrometer	Minggao	N/A	N/A	1 year	2016/11/30
Anechoic Chamber	RIKEN	Chamber-AC2	N/A	1 year	2017/05/10

Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9038A	MY51210182	1 year	2017/08/03
USB Wideband Power Sensor	Boonton	55006	8911	1 year	2017/05/08
Temperature/Humidity Meter	Yuhuaze	HTC-2	N/A	1 year	2016/12/20

Software	Version	Function
e3	V8.3.5	EMI Test Software

FCC ID: 2AIV6-T298S Page Number: 13 of 50



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 - AC2

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

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

FCC ID: 2AIV6-T298S Page Number: 14 of 50



7. TEST RESULT

7.1. Summary

Company Name: <u>Shenzhen Inrico Electronics Co.,Ltd</u>

FCC ID: <u>2AIV6-T298S</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 Pass Pass	Section 7.3	
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz Band		Pass	Section 7.4
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) 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.
- 2) 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.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

FCC ID: 2AIV6-T298S Page Number: 15 of 50



7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

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

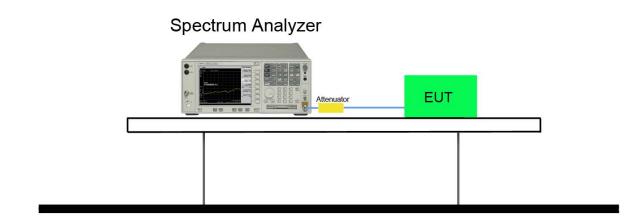
7.2.2. Test Procedure used

KDB 558074 D01v03r05 - 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



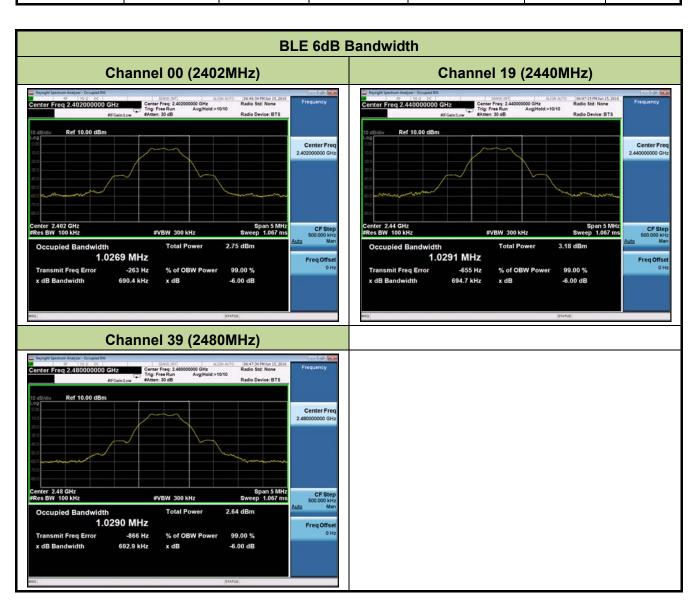
FCC ID: 2AIV6-T298S Page Number: 16 of 50

Report No.: 1605RSU02302



7.2.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
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



FCC ID: 2AIV6-T298S Page Number: 17 of 50



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

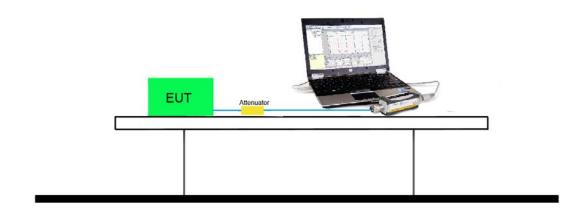
KDB 558074 D01v03r05 - Section 9.1.2 A PKPM1 - Peak Power Method

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.

7.3.4. Test Setup



FCC ID: 2AIV6-T298S Page Number: 18 of 50



7.3.5. Test Result of 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	-1.23	≤ 30	Pass
BLE	1	19	2440	-0.97	≤ 30	Pass
BLE	1	39	2480	-1.46	≤ 30	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency	Average	Limit	Result
	(Mbps)		(MHz)	Power (dBm)	(dBm)	
BLE	1	00	2402	-3.14	≤ 30	Pass
BLE	1	19	2440	-3.05	≤ 30	Pass
BLE	1	39	2480	-3.39	≤ 30	Pass

FCC ID: 2AIV6-T298S Page Number: 19 of 50



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 D01v03r05 - 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

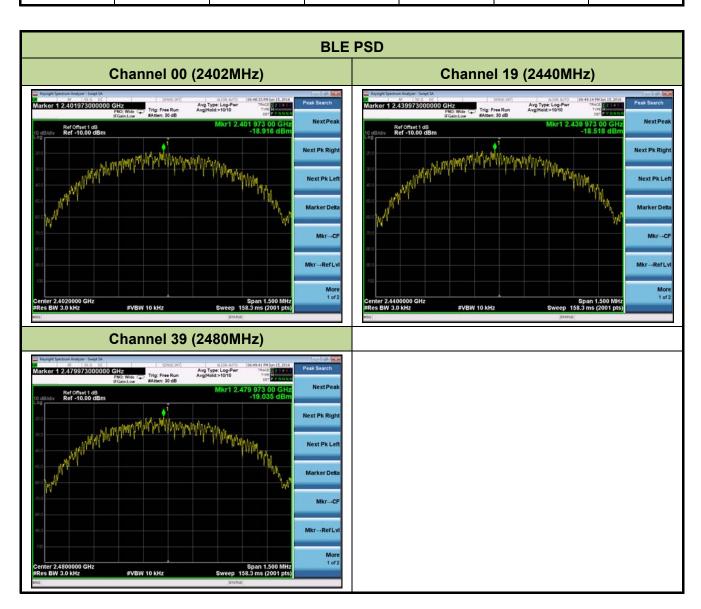
FCC ID: 2AIV6-T298S Page Number: 20 of 50

Report No.: 1605RSU02302



7.4.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-18.92	≤ 8	Pass
BLE	1	19	2440	-18.52	≤ 8	Pass
BLE	1	39	2480	-19.04	≤ 8	Pass



FCC ID: 2AIV6-T298S Page Number: 21 of 50



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 D01v03r05 - Section 11.2 & Section 11.3

7.5.3. Test Settitng

1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW \geq 3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

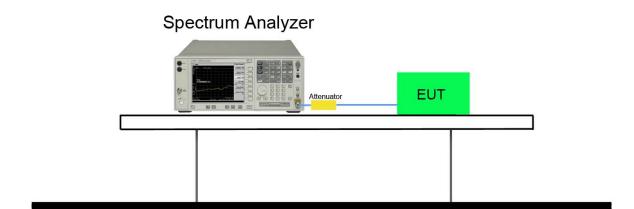
2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Number of sweep points ≥ 2 x Span/RBW
- (f) Trace mode = max hold
- (g) Sweep time = auto couple
- (h) The trace was allowed to stabilize

FCC ID: 2AIV6-T298S Page Number: 22 of 50



7.5.4. Test Setup



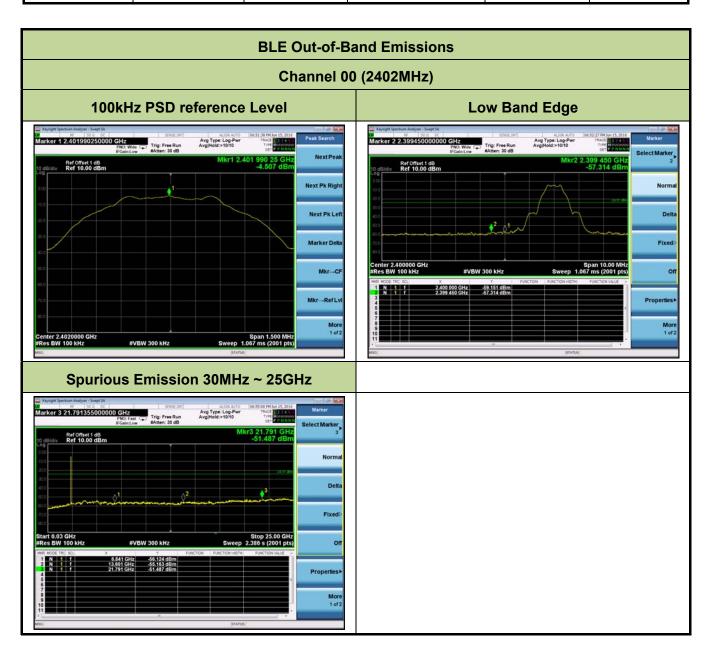
FCC ID: 2AIV6-T298S Page Number: 23 of 50

Report No.: 1605RSU02302



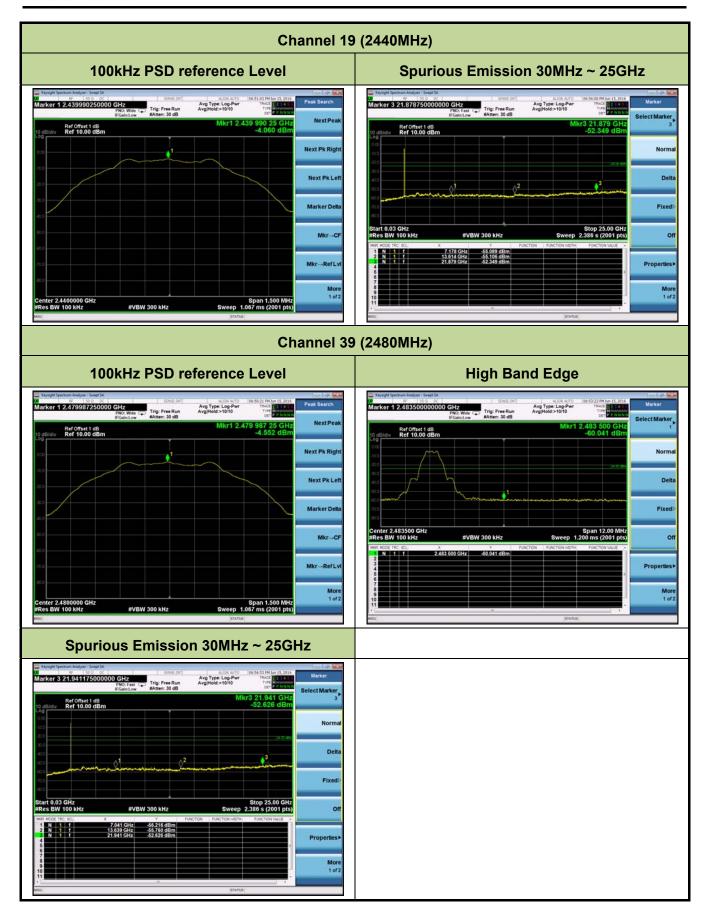
7.5.5. Test Result

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



FCC ID: 2AIV6-T298S Page Number: 24 of 50





FCC ID: 2AIV6-T298S Page Number: 25 of 50



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 [MHz]	Field Strength [V/m]	Measured Distance [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 D01v03r05 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r05 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r05 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r05

- 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

FCC ID: 2AIV6-T298S Page Number: 26 of 50



- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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 D01v03r05

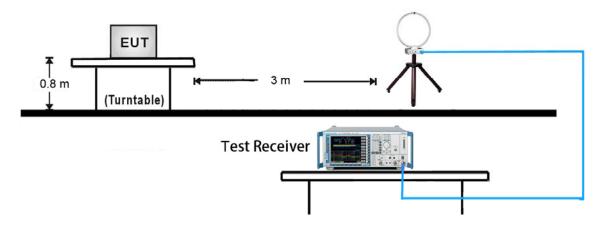
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB 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

FCC ID: 2AIV6-T298S Page Number: 27 of 50

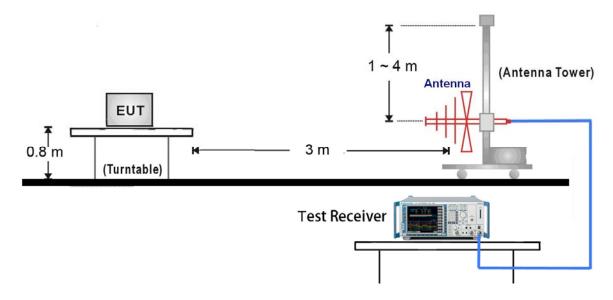


7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:



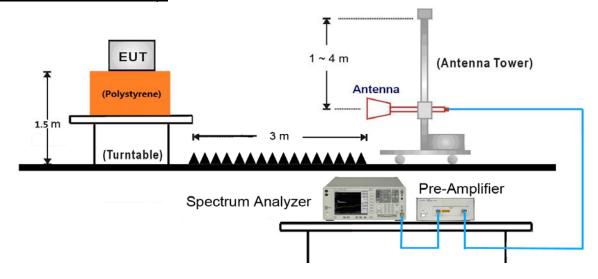
30MHz ~ 1GHz Test Setup:



FCC ID: 2AIV6-T298S Page Number: 28 of 50



1GHz ~ 25GHz Test Setup:



FCC ID: 2AIV6-T298S Page Number: 29 of 50





7.6.5. Test Result

Test Mode:	BLE	Test Site:	AC1				
Test Channel:	00	Test Engineer:	Roy Cheng				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.	limit.					
	2. 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)				
*	7188.0	34.2	10.6	44.8	74.0	-29.2	Peak	Horizontal
*	8777.5	33.4	11.9	45.3	74.0	-28.7	Peak	Horizontal
	9313.0	33.5	12.7	46.2	74.0	-27.8	Peak	Horizontal
	10928.0	31.9	16.4	48.3	74.0	-25.7	Peak	Horizontal
*	7111.5	34.7	10.1	44.8	74.0	-29.2	Peak	Vertical
*	8794.5	34.1	11.8	45.9	74.0	-28.1	Peak	Vertical
	9347.0	33.8	12.4	46.2	74.0	-27.8	Peak	Vertical
	11463.5	33.5	17.2	50.7	74.0	-23.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.1dB μ V/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)

FCC ID: 2AIV6-T298S Page Number: 30 of 50



Report No.: 1605RSU02302

Test Mode:	BLE	Test Site:	AC1					
Test Channel:	19	Test Engineer:	Roy Cheng					
Remark:	Average measurement was not performed if peak level lower than average							
	limit.	limit.						
	2. 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)				
*	7137.0	32.9	10.4	43.3	74.0	-30.7	Peak	Horizontal
*	8692.5	33.9	11.3	45.2	74.0	-28.8	Peak	Horizontal
	9058.0	32.7	12.0	44.7	74.0	-29.3	Peak	Horizontal
	11208.5	32.5	17.0	49.5	74.0	-24.5	Peak	Horizontal
*	7154.0	34.6	10.5	45.1	74.0	-28.9	Peak	Vertical
*	8769.0	33.8	11.8	45.6	74.0	-28.4	Peak	Vertical
	9304.5	32.7	12.7	45.4	74.0	-28.6	Peak	Vertical
	11336.0	33.1	16.9	50.0	74.0	-24.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (90.3dB μ V/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

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

FCC ID: 2AIV6-T298S Page Number: 31 of 50



Report No.: 1605RSU02302

Test Mode:	BLE	Test Site:	AC1			
Test Channel:	39	Test Engineer:	Roy Cheng			
Remark:	Average measurement was not performed if peak level lower than average					
	limit.					
	2. 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)				
*	7137.0	33.6	10.4	44.0	74.9	-30.9	Peak	Horizontal
*	8760.5	34.5	11.6	46.1	74.9	-28.8	Peak	Horizontal
	9355.5	34.1	12.7	46.8	74.0	-27.2	Peak	Horizontal
	10639.0	32.5	15.6	48.1	74.0	-25.9	Peak	Horizontal
*	7111.5	34.5	10.1	44.6	74.9	-30.3	Peak	Vertical
*	8777.5	33.5	11.9	45.4	74.9	-29.5	Peak	Vertical
	9168.5	32.5	12.6	45.1	74.0	-28.9	Peak	Vertical
	11370.0	32.5	17.0	49.5	74.0	-24.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.9dB μ V/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)

FCC ID: 2AIV6-T298S Page Number: 32 of 50



The worst case of Radiated Emission below 1GHz:

Worse Case Mode: Transmit by BLE at channel 2402MHz					
EUT: Smart Phone	Power: AC 120V/60Hz				
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal				
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng				
Site: AC2	Time: 2016/06/17 - 09:48				

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			47.460	12.910	-2.060	-27.090	40.000	14.969	QP
2			105.175	11.319	-1.780	-32.181	43.500	13.099	QP
3			230.305	11.400	-1.690	-34.600	46.000	13.090	QP
4			395.205	15.076	-1.560	-30.924	46.000	16.636	QP
5			497.540	17.682	-0.620	-28.318	46.000	18.302	QP
6		*	662.925	19.423	-1.520	-26.577	46.000	20.943	QP

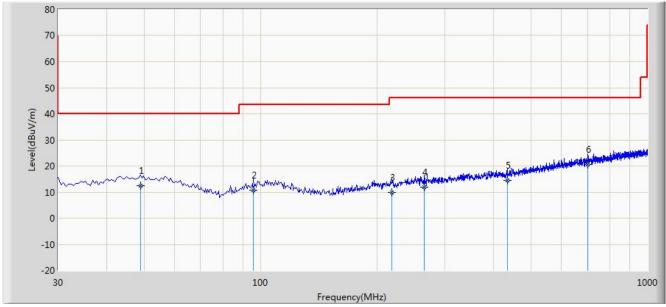
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

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

FCC ID: 2AIV6-T298S Page Number: 33 of 50



Worse Case Mode: Transmit by BLE at channel 2402MHz					
EUT: Smart Phone	Power: AC 120V/60Hz				
Probe: VULB9162_0.03-8GHz	Polarity: Vertical				
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng				
Site: AC2	Time: 2016/06/17 - 09:48				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			48.915	12.605	-2.360	-27.395	40.000	14.965	QP
2			95.960	10.620	-1.840	-32.880	43.500	12.460	QP
3			218.665	9.787	-2.840	-36.213	46.000	12.627	QP
4			265.225	11.806	-2.180	-34.194	46.000	13.986	QP
5			434.005	14.360	-2.840	-31.640	46.000	17.201	QP
6		*	700.755	20.552	-1.050	-25.448	46.000	21.602	QP

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

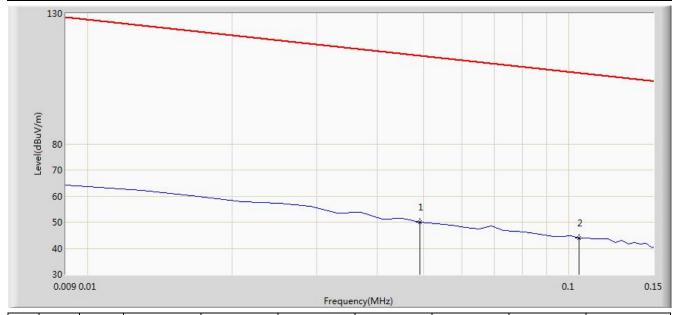
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2AIV6-T298S Page Number: 34 of 50





Note: There is the ambient noise within frequency range 9kHz~30MHz						
EUT: Smart Phone	Power: AC 120V/60Hz					
Probe: FMZB1519_0.009-30MHz	Polarity: Face On					
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng					
Site: AC2	Time: 2016/06/15 - 15:32					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			0.049	50.112	29.552	-63.677	113.789	20.560	QP
2		*	0.105	44.043	23.845	-63.130	107.173	20.198	QP

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

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

FCC ID: 2AIV6-T298S Page Number: 35 of 50



Note: There is the ambient noise within frequency range 9kHz~30MHz.						
EUT: Smart Phone	Power: AC 120V/60Hz					
Probe: FMZB1519_0.009-30MHz	Polarity: Face On					
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng					
Site: AC2	Time: 2016/06/15 - 15:41					

110 80 (a) 70 40 40 20 10 0.15 1 10 30 Frequency(MHz)

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2.175	27.371	6.960	-42.129	69.500	20.412	QP
2			6.216	24.786	4.701	-44.714	69.500	20.085	QP

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

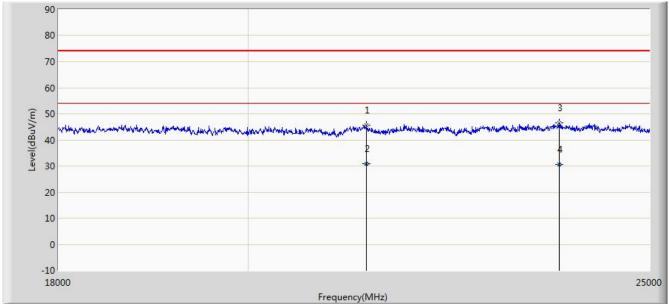
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2AIV6-T298S Page Number: 36 of 50





Note: There is the ambient noise within frequency range 18GHz~25GHz						
EUT: Smart Phone	Power: AC 120V/60Hz					
Probe: BBHA9170_18-40GHz	Polarity: Horizontal					
Limit: FCC_Part15.209_RE	Engineer: Roy Cheng					
Site: AC2	Time: 2016/06/15 - 11:17					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			21366.000	45.581	45.650	-28.419	74.000	-0.070	PK
2		*	21366.000	30.913	30.982	-23.087	54.000	-0.070	AV
3			23775.750	46.454	44.540	-27.546	74.000	1.914	PK
4			23775.750	30.481	28.567	-23.519	54.000	1.914	AV

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

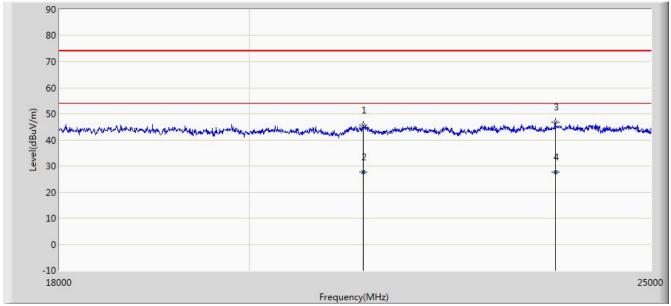
FCC ID: 2AIV6-T298S Page Number: 37 of 50





Note: There is the embient noise within frequency range 19CHz-25CHz						
EUT: Smart Phone	Power: AC 120V/60Hz					
Probe: BBHA9170_18-40GHz	Polarity: Vertical					
Limit: FCC_Part15.209_RE	Engineer: Roy Cheng					
Site: AC2	Time: 2016/06/15 - 11:23					

Note: There is the ambient noise within frequency range 18GHz~25GHz.



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			21310.750	45.737	41.998	-28.263	74.000	-0.078	PK
2		*	21310.750	27.813	27.890	-26.187	54.000	-0.078	AV
3			23707.750	46.775	40.888	-27.225	74.000	1.824	PK
4			23707.750	27.661	25.837	-26.339	54.000	1.824	AV

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

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

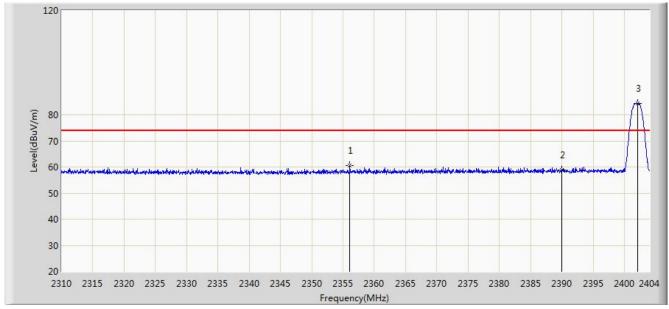
FCC ID: 2AIV6-T298S Page Number: 38 of 50



7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC2	Time: 2016/06/14 - 11:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by BLE	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2356.107	60.613	28.354	-13.387	74.000	32.259	PK
2			2390.000	58.773	26.495	-15.227	74.000	32.278	PK
3		*	2402.073	84.466	52.192	N/A	N/A	32.273	PK

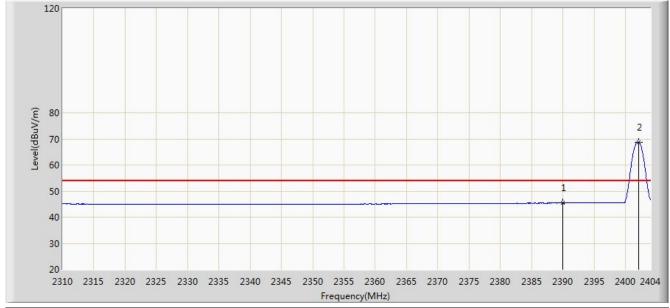
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

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

FCC ID: 2AIV6-T298S Page Number: 39 of 50



Site: AC2	Time: 2016/06/14 - 13:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by BLE	



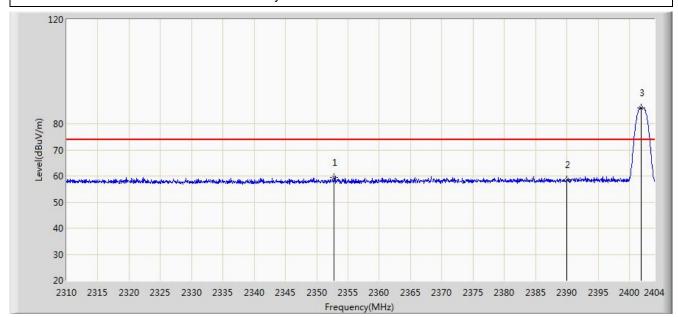
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	45.375	13.097	-8.625	54.000	32.278	AV
2		*	2402.073	68.813	36.539	N/A	N/A	32.273	AV

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

FCC ID: 2AIV6-T298S Page Number: 40 of 50



Site: AC2	Time: 2016/06/14 - 13:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by BLE	



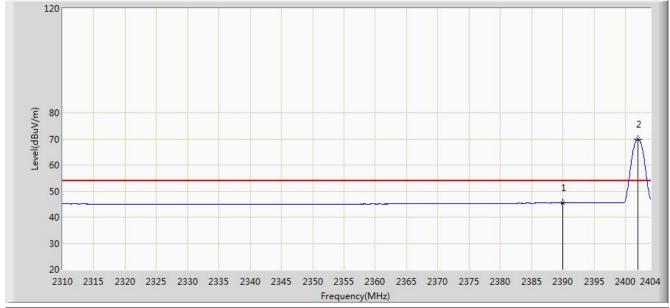
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2352.770	59.412	27.142	-14.588	74.000	32.270	PK
2			2390.000	58.611	26.333	-15.389	74.000	32.278	PK
3		*	2401.885	86.108	53.834	N/A	N/A	32.274	PK

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

FCC ID: 2AIV6-T298S Page Number: 41 of 50



Site: AC2	Time: 2016/06/14 - 13:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode: Transmit at channel 2402MHz by BLE	



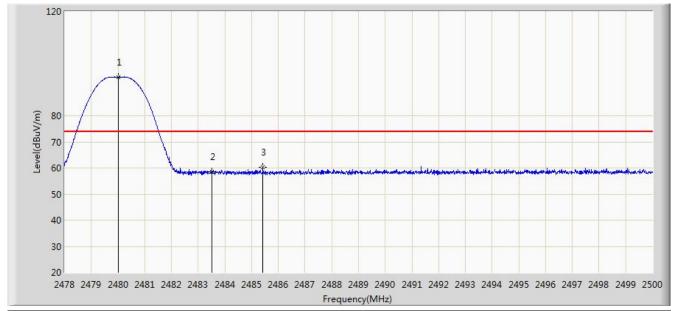
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	45.391	13.113	-8.609	54.000	32.278	AV
2		*	2401.979	69.857	37.583	N/A	N/A	32.274	AV

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

FCC ID: 2AIV6-T298S Page Number: 42 of 50



Site: AC2	Time: 2016/06/14 - 13:24			
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Smart Phone	Power: AC 120V/60Hz			
Test Mode: Transmit at channel 2480MHz by BLE				



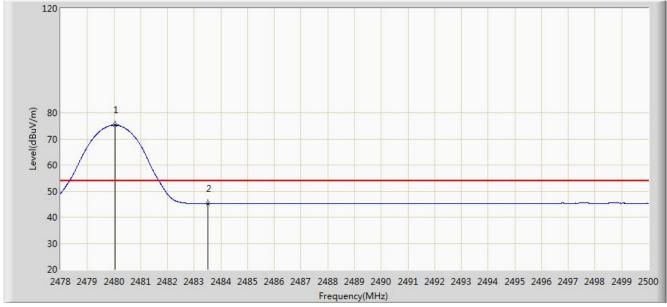
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.002	94.864	62.595	N/A	N/A	32.269	PK
2			2483.500	58.410	26.129	-15.590	74.000	32.282	PK
3	·		2485.425	60.396	28.108	-13.604	74.000	32.288	PK

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

FCC ID: 2AIV6-T298S Page Number: 43 of 50



Site: AC2	Time: 2016/06/14 - 13:27			
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Smart Phone	Power: AC 120V/60Hz			
Test Mode: Transmit at channel 2480MHz by BLE				



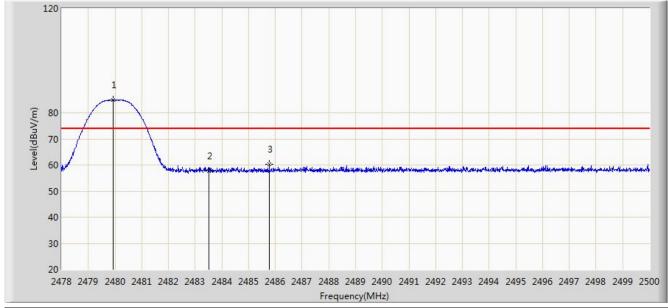
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.046	75.257	42.988	N/A	N/A	32.269	AV
2			2483.500	45.157	12.876	-8.843	54.000	32.282	AV

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

FCC ID: 2AIV6-T298S Page Number: 44 of 50



Site: AC2	Time: 2016/06/14 - 13:28			
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Smart Phone	Power: AC 120V/60Hz			
Test Mode: Transmit at channel 2480MHz by BLE				



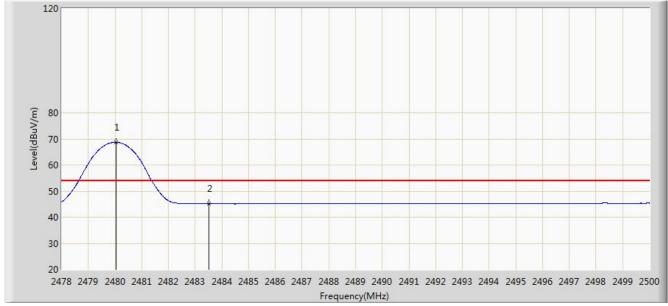
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.936	84.885	52.616	N/A	N/A	32.269	PK
2			2483.500	57.805	25.524	-16.195	74.000	32.282	PK
3			2485.777	60.310	28.021	-13.690	74.000	32.289	PK

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

FCC ID: 2AIV6-T298S Page Number: 45 of 50



Site: AC2	Time: 2016/06/14 - 13:30			
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Smart Phone	Power: AC 120V/60Hz			
Test Mode: Transmit at channel 2480MHz by BLE				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.046	68.704	36.435	N/A	N/A	32.269	AV
2			2483.500	45.097	12.816	-8.903	54.000	32.282	AV

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

FCC ID: 2AIV6-T298S Page Number: 46 of 50



7.8. AC Conducted Emissions Measurement

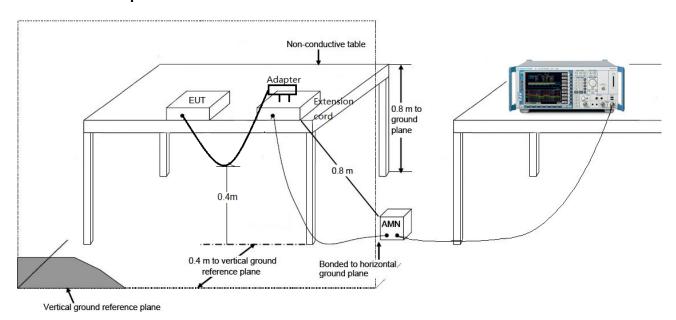
7.8.1. Test Limit

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

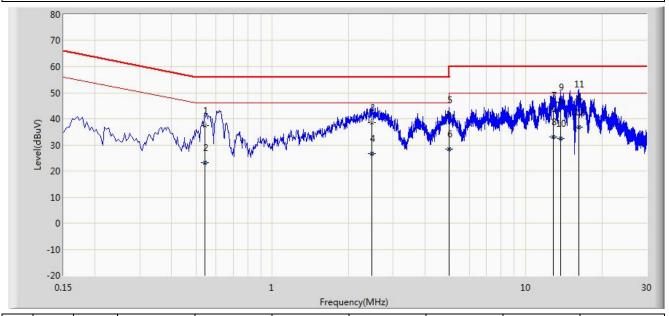


FCC ID: 2AIV6-T298S Page Number: 47 of 50



7.8.3. Test Result

Site: SR2	Time: 2016/06/22 - 18:32
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dandy Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)		
				(dBuV)	(dBuV)				
1			0.542	37.465	27.320	-18.535	56.000	10.145	QP
2			0.542	23.093	12.948	-22.907	46.000	10.145	AV
3			2.466	38.583	28.725	-17.417	56.000	9.858	QP
4			2.466	26.776	16.918	-19.224	46.000	9.858	AV
5			4.986	41.350	31.323	-14.650	56.000	10.027	QP
6			4.986	28.413	18.386	-17.587	46.000	10.027	AV
7			12.870	43.102	33.038	-16.898	60.000	10.064	QP
8			12.870	33.174	23.110	-16.826	50.000	10.064	AV
9			13.762	46.332	36.284	-13.668	60.000	10.048	QP
10			13.762	32.319	22.271	-17.681	50.000	10.048	AV
11		*	16.194	47.507	37.431	-12.493	60.000	10.076	QP
12			16.194	36.798	26.723	-13.202	50.000	10.076	AV

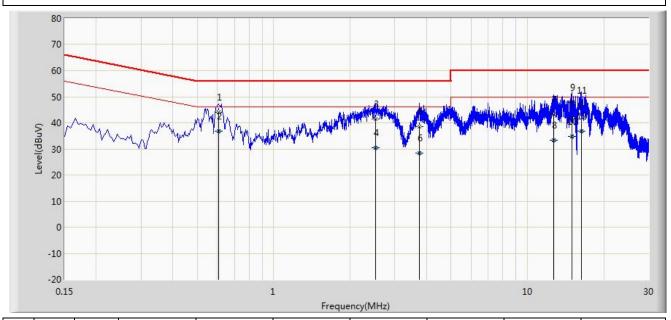
Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

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

FCC ID: 2AIV6-T298S Page Number: 48 of 50



Site: SR2	Time: 2016/06/22 - 18:36
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dandy Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Smart Phone	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)		
				(dBuV)	(dBuV)				
1			0.606	44.081	33.953	-11.919	56.000	10.128	QP
2		*	0.606	36.849	26.721	-9.151	46.000	10.128	AV
3			2.518	41.391	31.530	-14.609	56.000	9.860	QP
4			2.518	30.371	20.511	-15.629	46.000	9.860	AV
5			3.758	38.607	28.641	-17.393	56.000	9.966	QP
6			3.758	28.513	18.547	-17.487	46.000	9.966	AV
7			12.666	43.326	33.215	-16.674	60.000	10.111	QP
8			12.666	33.201	23.090	-16.799	50.000	10.111	AV
9			14.978	47.782	37.670	-12.218	60.000	10.112	QP
10			14.978	34.840	24.727	-15.160	50.000	10.112	AV
11			16.302	46.536	36.423	-13.464	60.000	10.113	QP
12			16.302	36.912	26.799	-13.088	50.000	10.113	AV

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

FCC ID: 2AIV6-T298S Page Number: 49 of 50



8. CONCLUSION

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

FCC ID: 2AIV6-T298S Page Number: 50 of 50

The End