



# **FCC Test Report**

FCC ID : 2AHGTA30103A

Equipment : Mevo Start

Brand Name : Mevo

Model Name : A30103A

Applicant : Mevo, Inc

19 Morris Ave. BLDG 128 Brooklyn, NY 11205 United

**States Of America** 

Manufacturer : Chicony Electronics Co.,Ltd.

No.69, Sec. 2, Guangfu Rd., Sanchong Dist. New

Taipei City 241 Taiwan

Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 13, 2019, and testing was started from Dec. 17, 2019 and completed on Jan. 16, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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# History of this test report

Report No.	Version	Description	Issued Date
FR9D1219AL	01	Initial issue of report	Jan. 31, 2020

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**Summary of Test Result** 

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Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### Comments and explanations:

None

Reviewed by: Jackson Tsai

Report Producer: Kate Lo

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# 1 General Description

## 1.1 Information

#### 1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number	
2400-2483.5	LE	2402-2480	0-39 [40]	

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX

#### Note:

- Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.
- BWch is the nominal channel bandwidth.

#### 1.1.2 Antenna Information

Ant.	Brand	Part Number	Antenna Type	Connector
1	WIESON	GY196HT337-020	PCB Antenna	I-PEX
2	WIESON	GY196HT337-019	PCB Antenna	I-PEX

							Gain (d	lBi)				
Ant.	Ant. Port 2.4G(MHz)			:)	5G(MHz)				BT(MHz)			
		2400	2450	2500	5150	5250	5725	5785	5850	2400	2450	2500
1	1	-0.71	0.94	0.74	1.18	1.19	2.13	1.18	1.15	-0.71	0.94	0.74
2	2	1.21	1.26	1.59	2.18	2.18	1.11	1.29	1.63	-	-	-

Note 1: The EUT has two antennas.

Note 2: Higher gain was used to perform the worst configuration and result of that was recorded as the final test result.

#### For 2.4GHz function:

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

#### For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

#### For 5GHz function:

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

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# FCC Test Report

1.1.3 EUT Information

	Operational Condition								
EU1	Power T	уре	Fro	m AC Adapter / F	rom ho	st syste	em(N	NB)	
EUΊ	Function	n	$\boxtimes$	Point-to-multipo	int			Point-to-point	
	Type of EUT								
$\boxtimes$	Stand-alo	ne							
	Combine	d (EUT where	e the	radio part is full	y integra	ated wit	hin a	another device)	
	Combine	d Equipment	- Bra	and Name / Mod	el No.:				
	Plug-in ra	idio (EUT inte	ende	d for a variety of	host sy	stems)			
	Host System - Brand Name / Model No.:								
	Other:								

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# 1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.626	2.03	391.25u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

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# 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- 47 CFR FCC Part 15
- ANSI C63.10-2013
- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

# 1.3 Testing Location Information

	Testing Location								
$\boxtimes$	HWA YA	ADD	:	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)					
		TEL	:	886-3-327-3456	FAX : 886-3-327-0973				
	Test site Designation No. TW1190 with FCC.								
	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)					
		TEL	:	886-3-656-9065	FAX : 886-3-656-9085				
				Test site Designati	ion No. TW0006 with FCC.				
$\boxtimes$	Wen Shan	ADD	:	No.14-1, Ln. 19, Wen 3	33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)				
		TEL	:	886-3-318-0787	FAX : 886-3-318-0287				
	Test site Designation No. TW1097 with FCC.								

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	David	21.2~22.5°C / 59.2~66.4%	19/Dec/2019~ 16/Jan/2020
RF Conducted	TH06-HY	Gary	23.5~26.6°C / 65~69%	19/Dec/2019~ 13/Jan/2020
Radiated	03CH09-HY	Ryan	21.1~24.3°C / 52~60%	17/Dec/2019~ 15/Jan/2020

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# 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

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Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

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#### **Test Configuration of EUT** 2

#### **Test Condition** 2.1

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

#### **Test Channel Mode** 2.2

Test Software	DoS
---------------	-----

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	default
2440MHz	default
2480MHz	default

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# 2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests			
Tests Item	Tests Item AC power-line conducted emissions		
Condition	Condition AC power-line conducted measurement for line and neutral		
Operating Mode CTX			
1 Adapter mode			
2	USB mode		

The Worst Case Mode for Following Conformance Tests		
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands	
Test Condition Conducted measurement at transmit chains		

The Worst Case Mode for Following Conformance Tests					
Tests Item	Emissions in Restricted Fr	Emissions in Restricted Frequency Bands			
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.				
Operating Mode < 1GHz	CTX				
1	Adapter mode				
2	USB mode				
Operating Mode > 1GHz	CTX				
	X Plane	X Plane Y Plane Z Plane			
Orthogonal Planes of EUT					
Worst Planes of EUT	V				

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#### **Accessories and Support Equipment** 2.4

Accessories				
1100 0 11	Brand Name	-	Model Name	-
USB Cable Power Cord		2.0 meter, shielded cable	, w/o ferrite core	

Reminder: Regarding to more detail and other information, please refer to user manual.

	Support Equipment – AC Conduction					
No.	No. Equipment Brand Name Model Name FCC ID					
1	AC Power Cable	Power sync	TPCMRN0018	-		
2	Adapter	DELL	AA90PM111	-		
3	Notebook	DELL	PP13S	-		
4	AC adapter	Mevo	A18001A	-		

Note: Support equipment No.4 was provided by customer.

	Support Equipment - RF Conducted					
No.	No. Equipment Brand Name Model Name FCC ID					
1	Notebook	DELL	E5410	DoC		
2	Adapter for NB	DoC				

	Support Equipment – Radiated Emission						
No.	No. Equipment Brand Name Model Name FCC ID						
1	AC adapter	Mevo	A18001A	-			
2	Notebook	DELL	E4300	-			
3	AC adapter for NB	DELL	LA90PS0-00	-			
4	4 AC Power Cable Power sync TPCMRN0018 -						

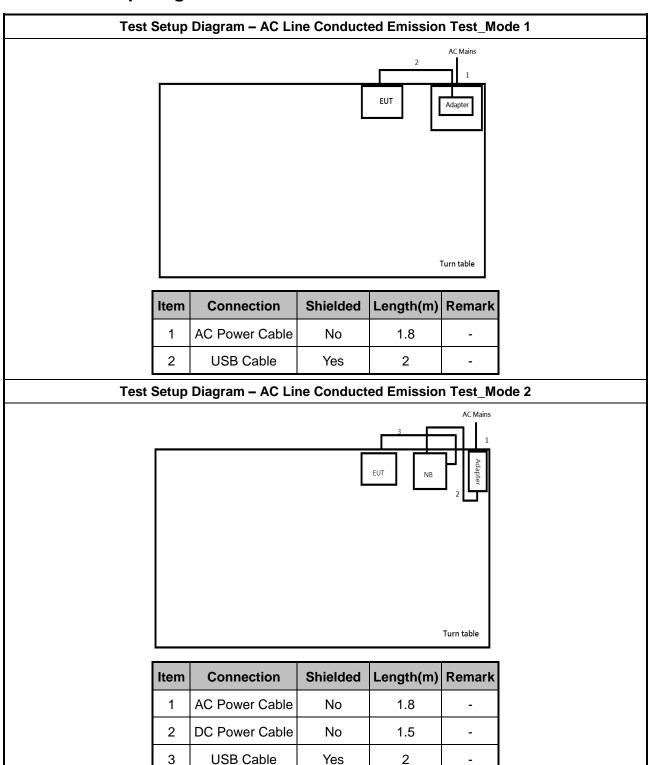
Note: Support equipment No.1 was provided by customer.

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#### 2.5 **Test Setup Diagram**



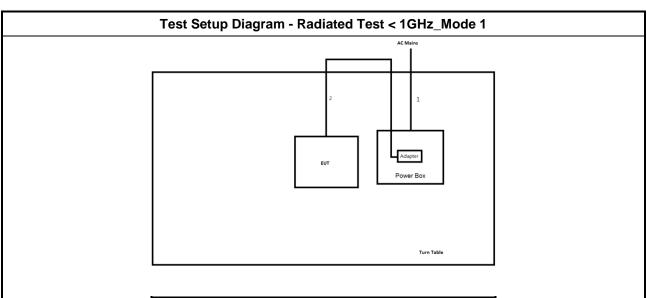
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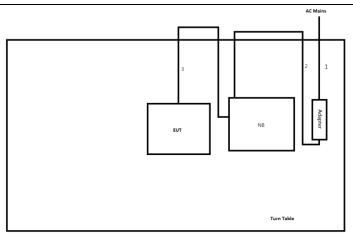
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Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	USB cable	Yes	2	-

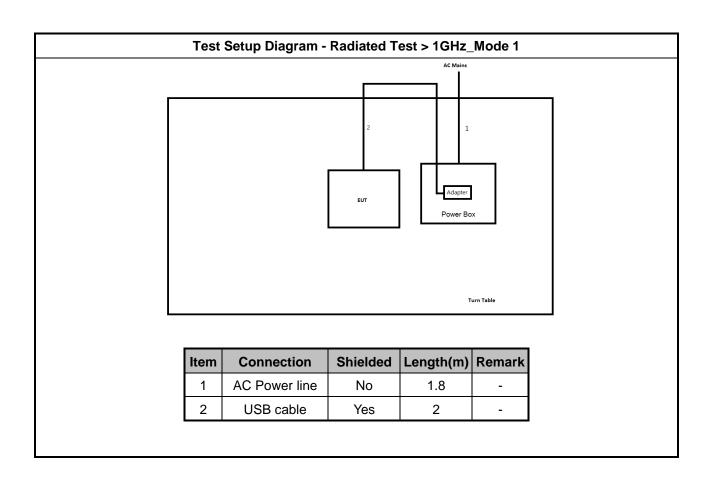
## Test Setup Diagram - Radiated Test < 1GHz\_ Mode 2



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.5	-
3	USB cable	Yes	2	-

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3 Transmitter Test Result

# 3.1 AC Power-line Conducted Emissions

## 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit								
Frequency Emission (MHz) Quasi-Peak Average								
0.15-0.5 66 - 56 * 56 - 46 *								
0.5-5	56	46						
5-30 60 50								
Note 1: * Decreases with the logarithm of the frequency.								

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# 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

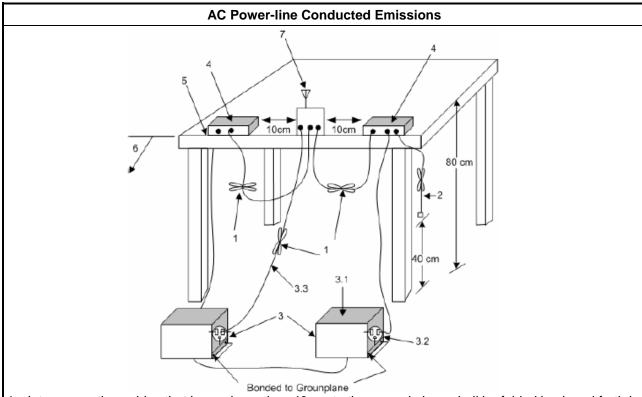
	Test Method
-	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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#### 3.1.4 **Test Setup**



- 1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
- 2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
- 3.1—All other equipment powered from additional LISN(s).
- 3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
- 3.3—LISN at least 80 cm from nearest part of EUT chassis.
- 4—Non-EUT components of EUT system being tested.
- 5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
- 6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
- 7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

#### **Test Result of AC Power-line Conducted Emissions** 3.1.5

Refer as Appendix A

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# 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit					
Systems using digital modulation techniques:					
■ 6 dB bandwidth ≥ 500 kHz.					

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# 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

	Test Method						
•	For the emission bandwidth shall be measured using one of the options below:						
	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.						
	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.						
	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.						

# 3.2.4 Test Setup



## 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

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3.3 Maximum Conducted Output Power

# 3.3.1 Maximum Conducted Output Power Limit

Max	cimu	m Conducted Output Power Limit							
	•	If $G_{TX} \le 6$ dBi, then $P_{Out} \le 30$ dBm (1 W)							
	•	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm							
	■ Point-to-point systems (P2P): If G <sub>TX</sub> > 6 dBi, then P <sub>Out</sub> = 30 – (G <sub>TX</sub> – 6)/3 dBm								
	•	Smart antenna system (SAS):							
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm							
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm							
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm							
e.i.r	.p. P	ower Limit:							
•	240	0-2483.5 MHz Band							
	•	Point-to-multipoint systems (P2M): P <sub>eirp</sub> ≤ 36 dBm (4 W)							
	•	Point-to-point systems (P2P): $P_{eirp} \le MAX(36, [P_{Out} + G_{TX}]) dBm$							
	•	Smart antenna system (SAS)							
		- Single beam: P <sub>eirp</sub> ≤ MAX(36, P <sub>Out</sub> + G <sub>TX</sub> ) dBm							
		- Overlap beam: P <sub>eirp</sub> ≤ MAX(36, P <sub>Out</sub> + G <sub>TX</sub> ) dBm							
		- Aggregate power on all beams: P <sub>eirp</sub> ≤ MAX(36, [P <sub>Out</sub> + G <sub>TX</sub> + 8]) dBm							
		aximum peak conducted output power or maximum conducted output power in dBm, aximum transmitting antenna directional gain in dBi.							

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# 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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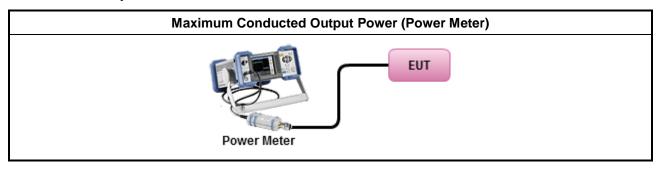


3.3.3 Test Procedures

		Test Method
•	Max	imum Peak Conducted Output Power
		Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
		Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
		Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
•	Max	imum Average Conducted Output Power
		Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	$\boxtimes$	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
•	For	conducted measurement.
	•	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	•	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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### 3.3.4 Test Setup



# 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

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3.4 Power Spectral Density

## 3.4.1 Power Spectral Density Limit

## **Power Spectral Density Limit**

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Power Spectral Density (PSD)≤8 dBm/3kHz

#### 3.4.2 Measuring Instruments

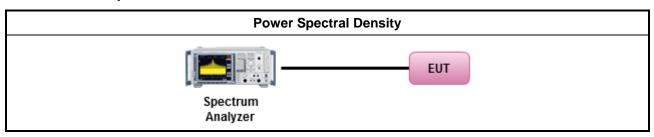
Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

#### **Test Method**

- Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
  - Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
- For conducted measurement.
  - If The EUT supports multiple transmit chains using options given below:
    - Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

## 3.4.4 Test Setup



## 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

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3.5 Emissions in Non-restricted Frequency Bands

## 3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit						
RF output power procedure Limit (dB)						
Peak output power procedure	20					
Average output power procedure	30					

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- Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level.
- Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.

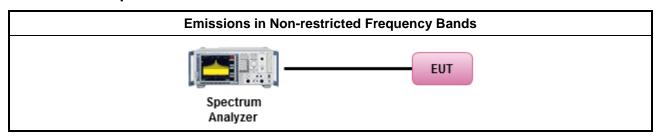
## 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

	Test Method
•	Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

## 3.5.4 Test Setup



## 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

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3.6 Emissions in Restricted Frequency Bands

### 3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit							
Frequency Range (MHz) Field Strength (uV/m) Field Strength (dBuV/m) Measure							
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300				
0.490~1.705	24000/F(kHz)	33.8 - 23	30				
1.705~30.0	30	29	30				
30~88	100	40	3				
88~216	150	43.5	3				
216~960	200	46	3				
Above 960	500	54	3				

Report No.: FR9D1219AL

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the ELIT

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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#### 3.6.3 Test Procedures

#### **Test Method**

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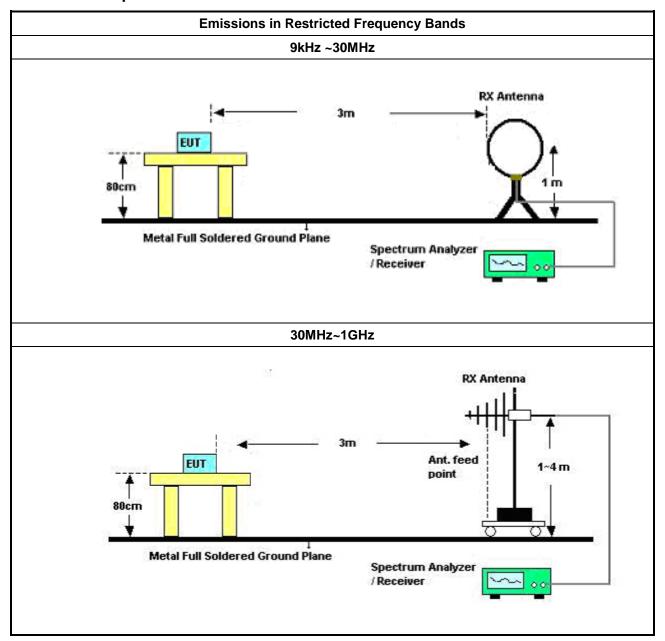
- The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
- Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
- For the transmitter unwanted emissions shall be measured using following options below:
  - Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
- For the transmitter band-edge emissions shall be measured using following options below:
  - Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
  - Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
  - Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
- Use the following spectrum analyzer settings:
  - Set RBW=100 kHz for f < 1 GHz; VBW=3 \* RBW; Sweep = auto; Detector function = peak; Trace = max hold.</p>
  - Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
- KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
  - Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
  - Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

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#### **Test Setup** 3.6.4



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Above 1GHz

Spectrum Analyzer

Above 1GHz

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# 3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

# 3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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4 Test Equipment and Calibration Data

### **Instrument for AC Conduction**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

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**NCR: Non-Calibration Require** 

#### **Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10KHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

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# FCC Test Report

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	22/Apr/2019	21/Apr/2020
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	13/Jun/2019	12/Jun/2020
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	04/Sep/2019	03/Sep/2020
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	11/Oct/2019	10/Oct/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	29/Apr/2019	28/Apr/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	22/May/2019	21/May/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
LF-CABLE-2019 0218	Jye Bao	RG142	CB028	9kHz ~ 1GHz	18/Feb/2019	17/Feb/2020
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	13/Mar/2019	12/Mar/2020

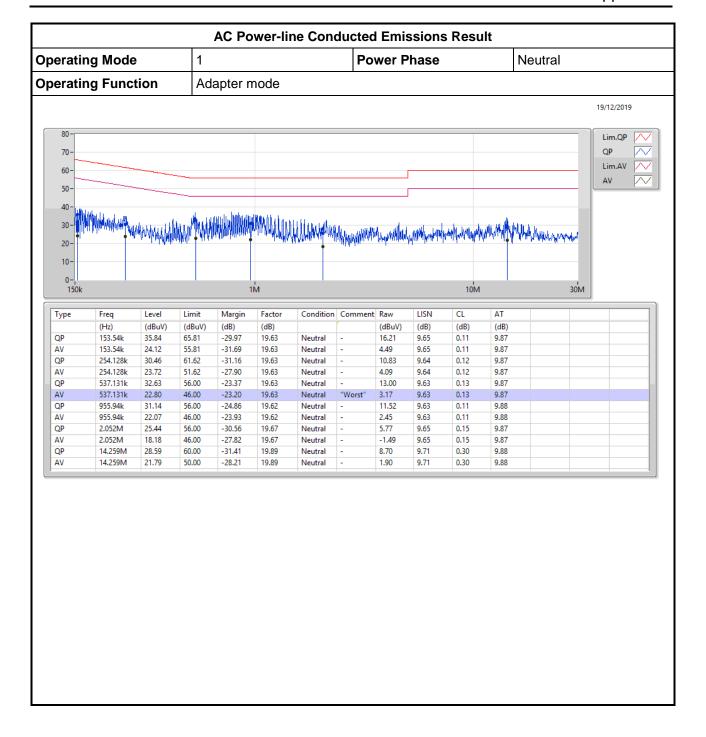
Report No.: FR9D1219AL

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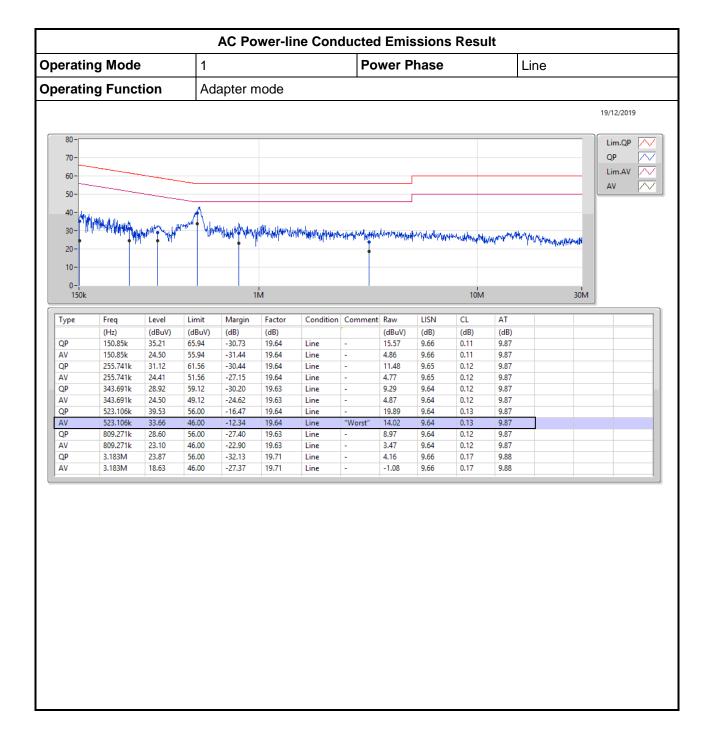
Report Template No.: HE1-C10 Ver3.6 Report Version : 01 FCC ID: 2AHGTA30103A



#### AC Power-line Conducted Emissions

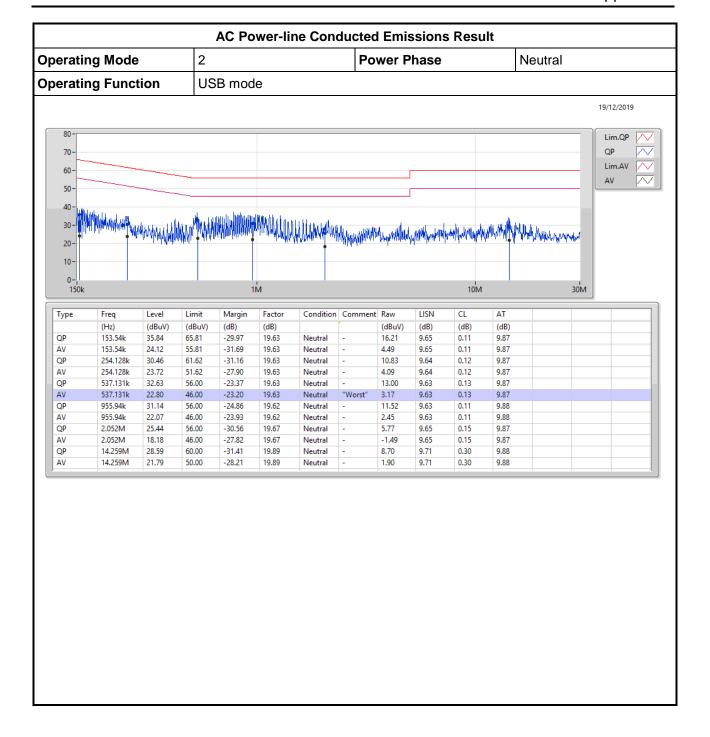




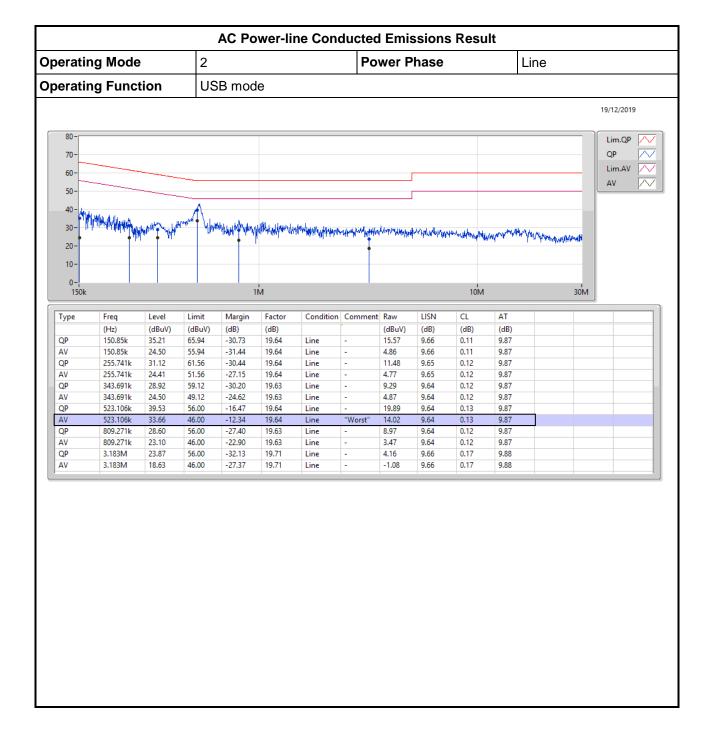




#### **AC Power-line Conducted Emissions**









**EBW-DTS** Appendix B

**Summary** 

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	720k	1.048M	1M05F1D	711.25k	1.046M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth; Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth;

9D1219



EBW-DTS Appendix B

#### Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	712.5k	1.046M
2440MHz	Pass	500k	720k	1.048M
2480MHz	Pass	500k	711.25k	1.048M

Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

-35 -

6dB(Hz)

2.439G 2.43925G2.4395G2.43975G 2.44G 2.44025G2.4405G2.44075G 2.441G

1.048M

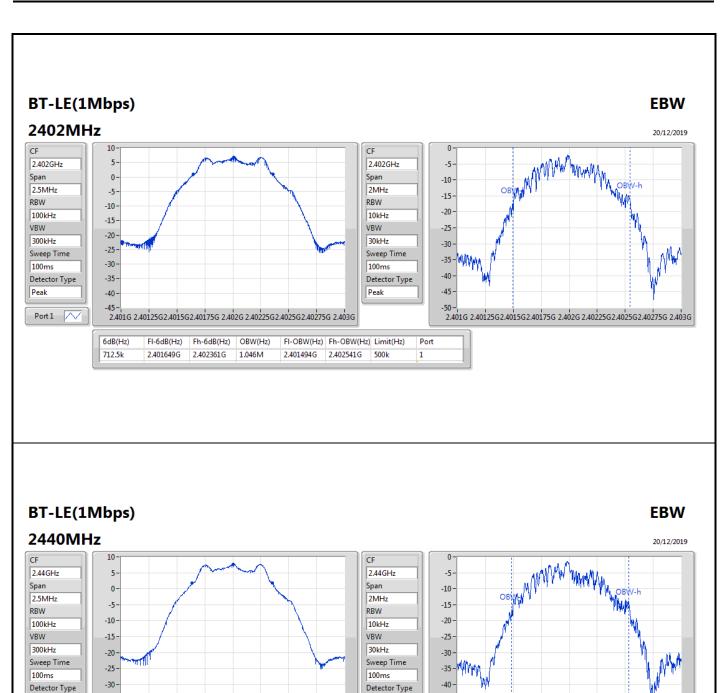
FI-6dB(Hz) Fh-6dB(Hz) OBW(Hz)

2.439636G 2.440356G

Peak

Port1 /

**EBW-DTS** Appendix B



-45-

Peak

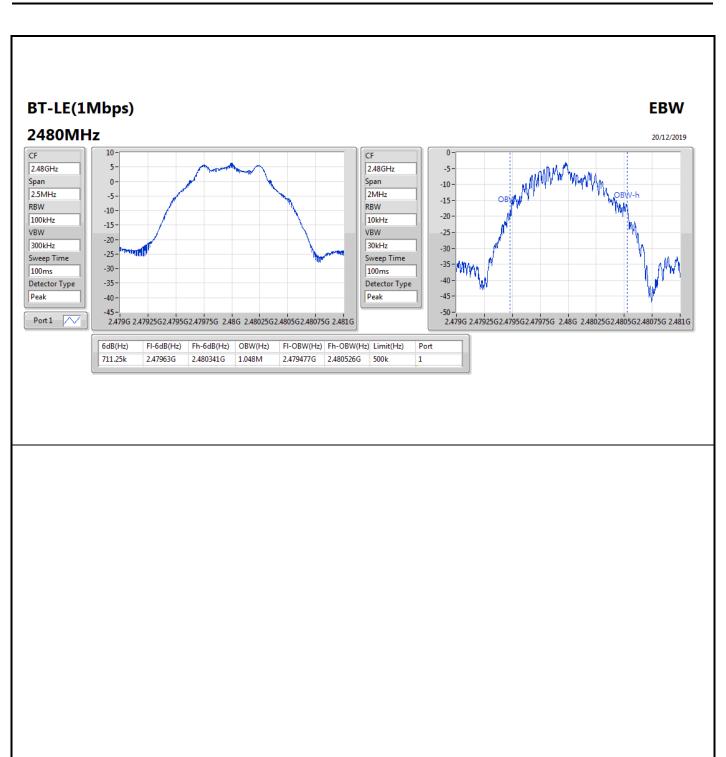
FI-OBW(Hz) Fh-OBW(Hz) Limit(Hz)

2.439486G 2.440535G 500k

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2.439G 2.43925G2.4395G2.43975G 2.44G 2.44025G2.4405G2.44075G 2.441G

EBW-DTS Appendix B





# Average Power-DTS

Appendix C

**Summary** 

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.99	0.00630

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9D1219

### Result

Mode	Result	Gain	Power	Power Limit
		(dBi)	(dBm)	(dBm)
BT-LE(1Mbps)	=	-	-	-
2402MHz	Pass	0.94	7.41	30.00
2440MHz	Pass	0.94	7.99	30.00
2480MHz	Pass	0.94	6.37	30.00

**DG** = Directional Gain; **Port X** = Port X output power



**PSD-DTS** Appendix D

**Summary** 

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-6.34

RBW=3 kHz.



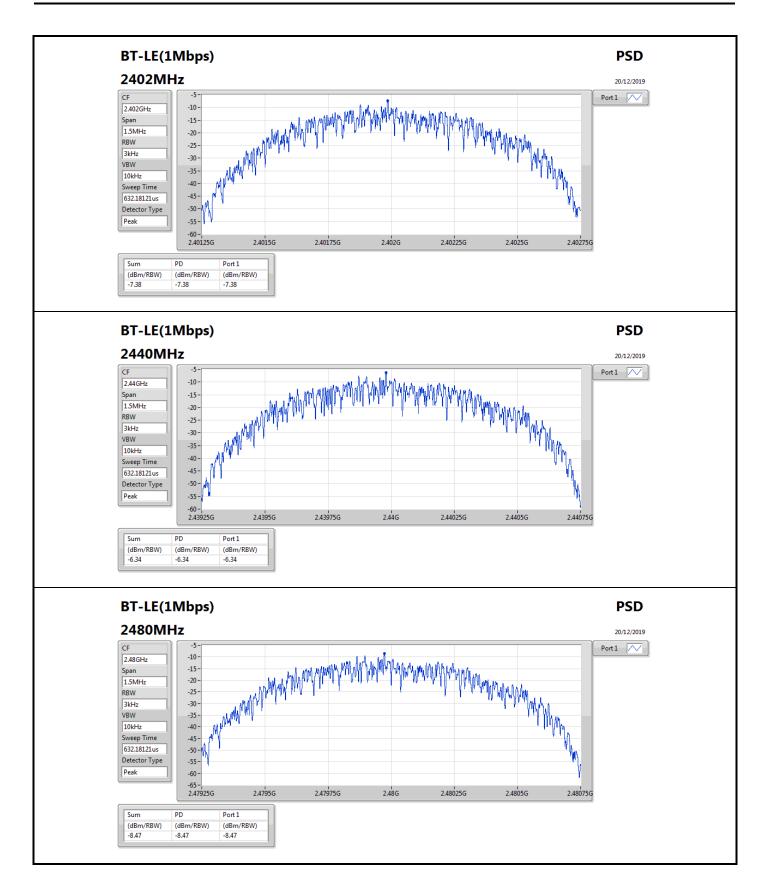
Appendix D **PSD-DTS** 

### Result

Mode	Result	Gain	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.94	-7.38	8.00
2440MHz	Pass	0.94	-6.34	8.00
2480MHz	Pass	0.94	-8.47	8.00

DG = Directional Gain; RBW=3 kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

**PSD-DTS** Appendix D





# CSE-DTS(Non-restricted Band)

Appendix E

**Summary** 

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44025G	7.62	-22.38	2.09771G	-54.98	2.39999G	-51.45	2.4G	-54.26	2.48522G	-53.12	23.1806G	-42.26	1

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# CSE-DTS(Non-restricted Band)

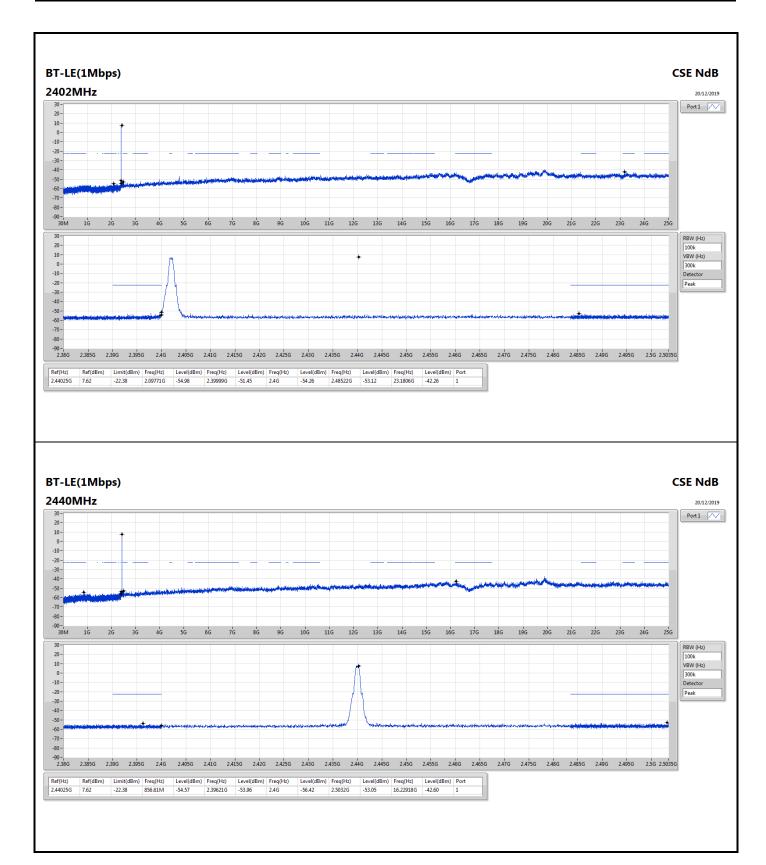
Appendix E

### Result

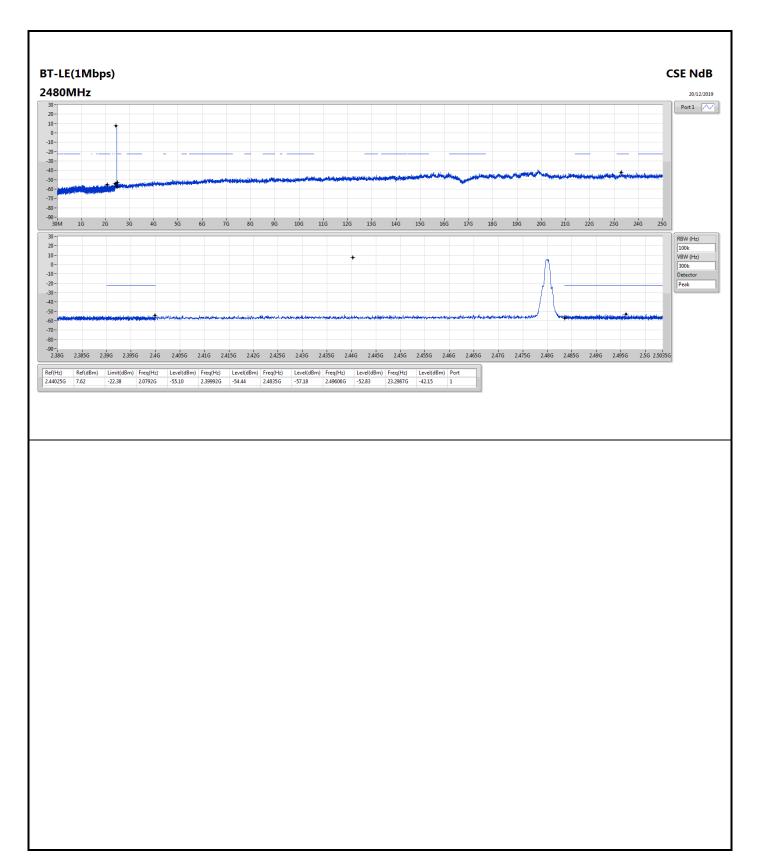
Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44025G	7.62	-22.38	2.09771G	-54.98	2.39999G	-51.45	2.4G	-54.26	2.48522G	-53.12	23.1806G	-42.26	1
2440MHz	Pass	2.44025G	7.62	-22.38	856.61M	-54.57	2.39621G	-53.96	2.4G	-56.42	2.5032G	-53.05	16.22918G	-42.60	1
2480MHz	Pass	2.44025G	7.62	-22.38	2.0792G	-55.10	2.39992G	-54.44	2.4835G	-57.18	2.49606G	-52.83	23.2987G	-42.15	1

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## RSE TX below 1GHz

Appendix F.1

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(m)		(°)	(m)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	PK	745.86M	42.63	46.00	-3.37	3	Horizontal	360	1.00	-

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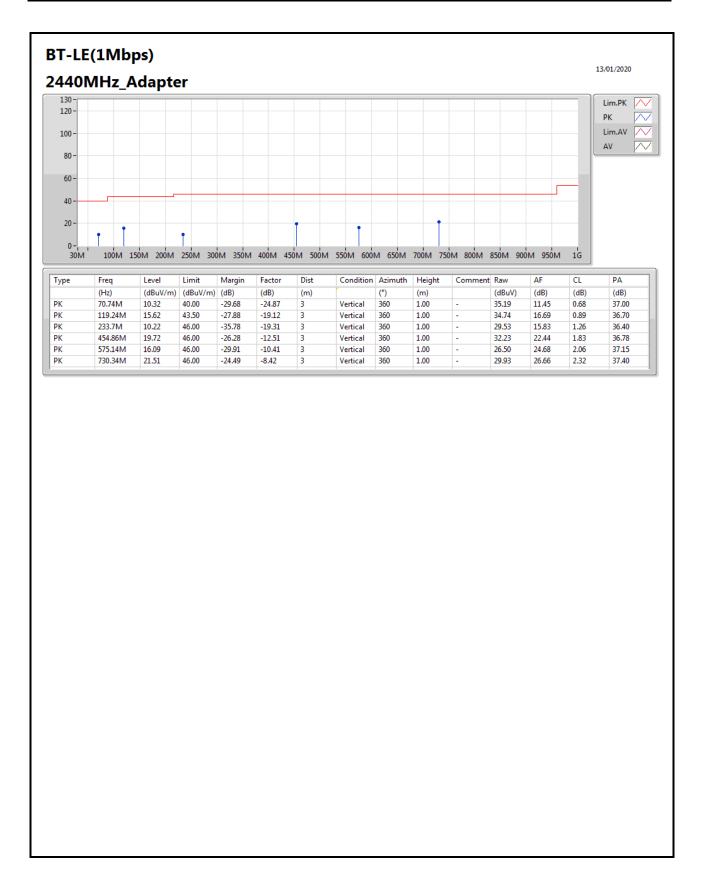
# RSE TX below 1GHz

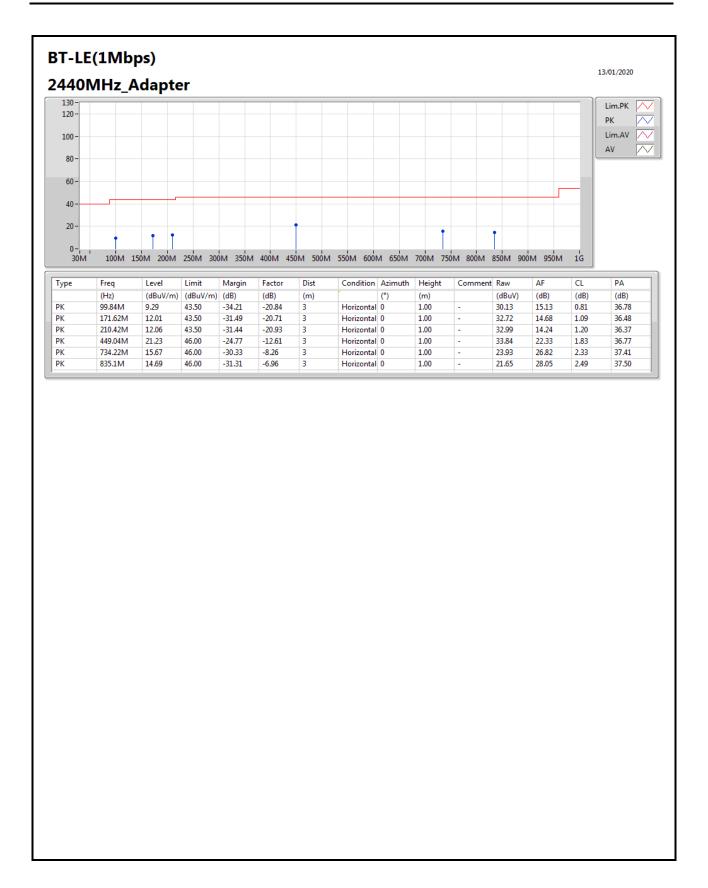
Appendix F.1

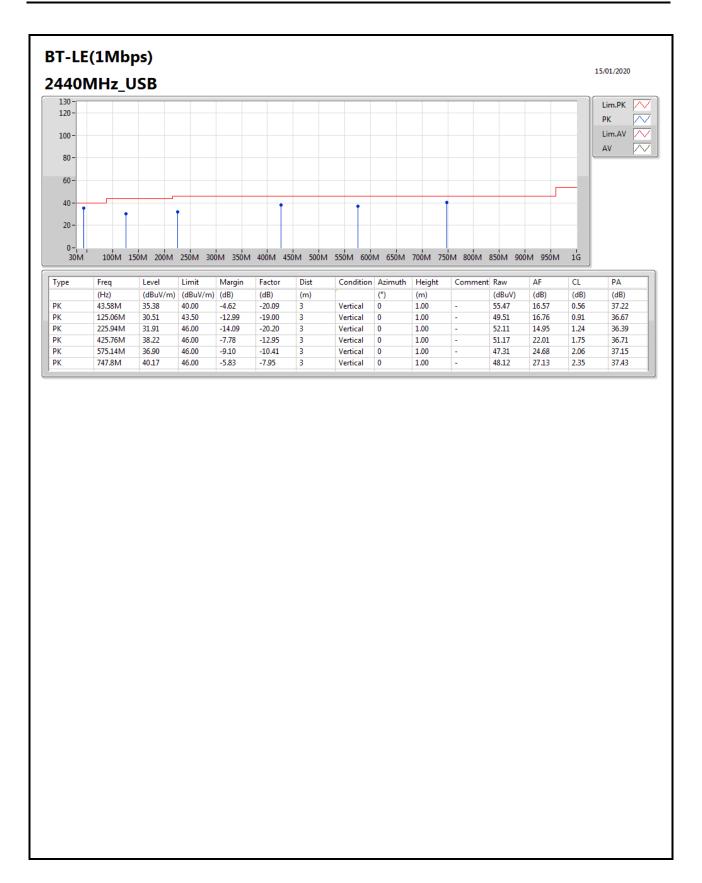
### Result

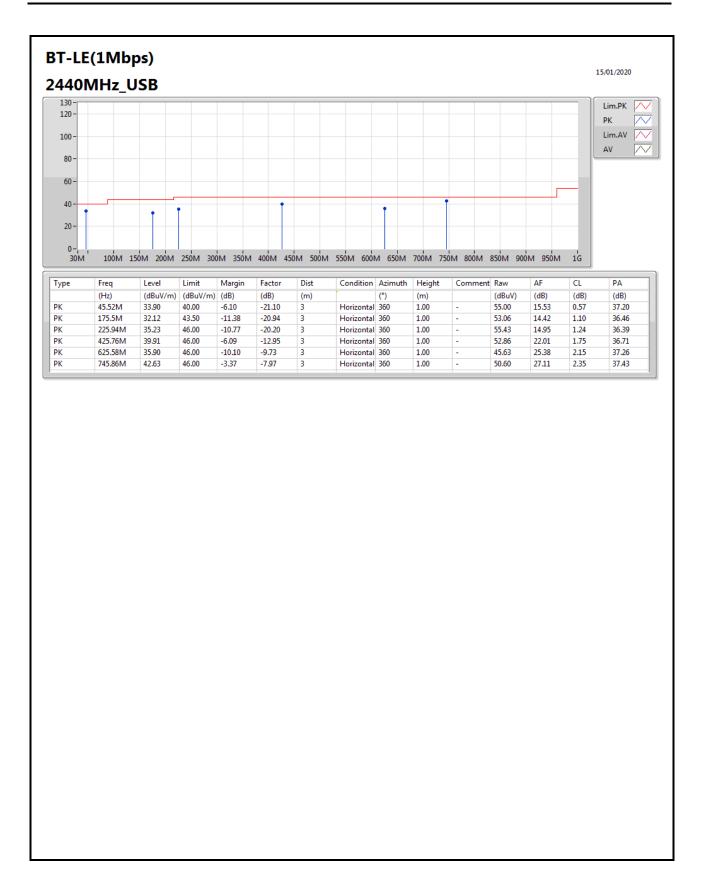
Mode	Result	Type	Freq	Level	Limit	Margin	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(m)		(°)	(m)	
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	70.74M	10.32	40.00	-29.68	3	Vertical	360	1.00	-
2440MHz	Pass	PK	119.24M	15.62	43.50	-27.88	3	Vertical	360	1.00	-
2440MHz	Pass	PK	233.7M	10.22	46.00	-35.78	3	Vertical	360	1.00	-
2440MHz	Pass	PK	454.86M	19.72	46.00	-26.28	3	Vertical	360	1.00	-
2440MHz	Pass	PK	575.14M	16.09	46.00	-29.91	3	Vertical	360	1.00	-
2440MHz	Pass	PK	730.34M	21.51	46.00	-24.49	3	Vertical	360	1.00	-
2440MHz	Pass	PK	99.84M	9.29	43.50	-34.21	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	171.62M	12.01	43.50	-31.49	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	210.42M	12.06	43.50	-31.44	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	449.04M	21.23	46.00	-24.77	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	734.22M	15.67	46.00	-30.33	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	835.1M	14.69	46.00	-31.31	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	43.58M	35.38	40.00	-4.62	3	Vertical	0	1.00	-
2440MHz	Pass	PK	125.06M	30.51	43.50	-12.99	3	Vertical	0	1.00	-
2440MHz	Pass	PK	225.94M	31.91	46.00	-14.09	3	Vertical	0	1.00	-
2440MHz	Pass	PK	425.76M	38.22	46.00	-7.78	3	Vertical	0	1.00	-
2440MHz	Pass	PK	575.14M	36.90	46.00	-9.10	3	Vertical	0	1.00	-
2440MHz	Pass	PK	747.8M	40.17	46.00	-5.83	3	Vertical	0	1.00	-
2440MHz	Pass	PK	45.52M	33.90	40.00	-6.10	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	175.5M	32.12	43.50	-11.38	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	225.94M	35.23	46.00	-10.77	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	425.76M	39.91	46.00	-6.09	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	625.58M	35.90	46.00	-10.10	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	745.86M	42.63	46.00	-3.37	3	Horizontal	360	1.00	-













# RSE TX above 1GHz

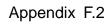
Appendix F.2

**Summary** 

Mod	de	Result	Туре	Freq	Level	Limit	Margin	Dist	Condition	Azimuth	Height	Comments
				(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(m)		(°)	(m)	
2.4-2.483	35GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1M	Mbps)	Pass	AV	2.5G	48.53	54.00	-5.47	3	Vertical	330	2.71	-

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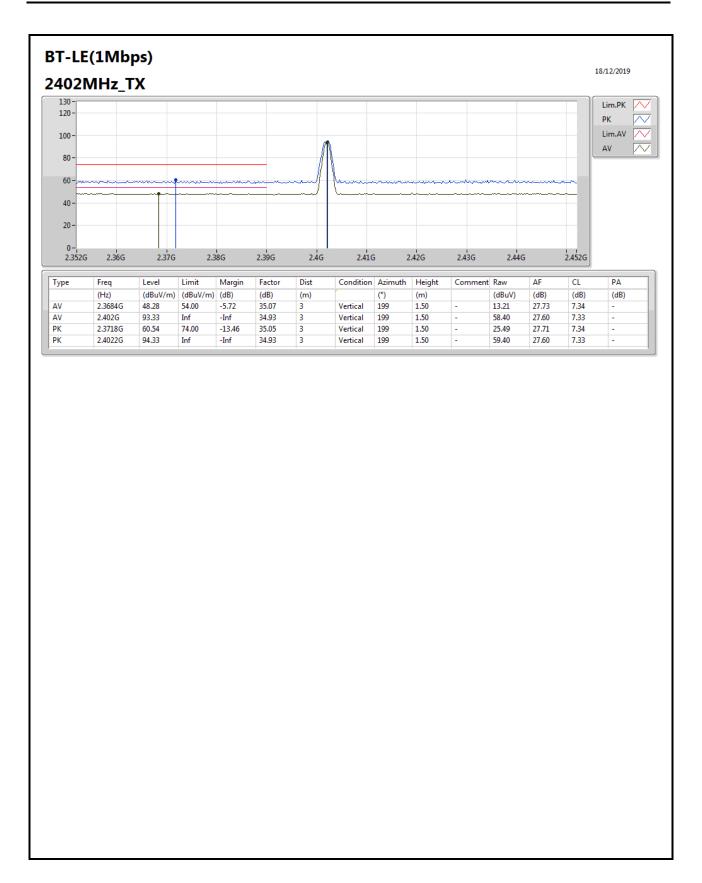


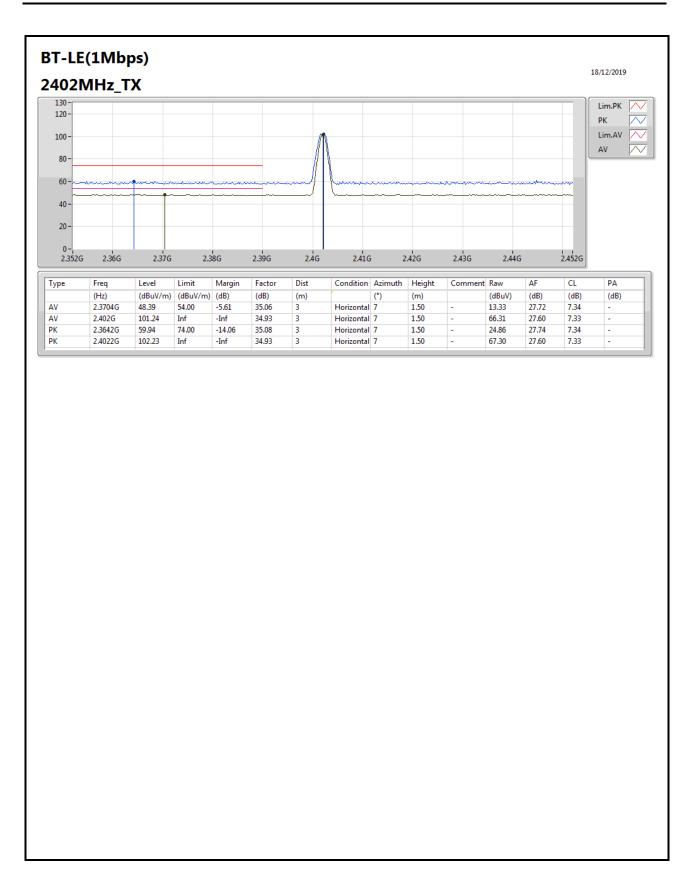




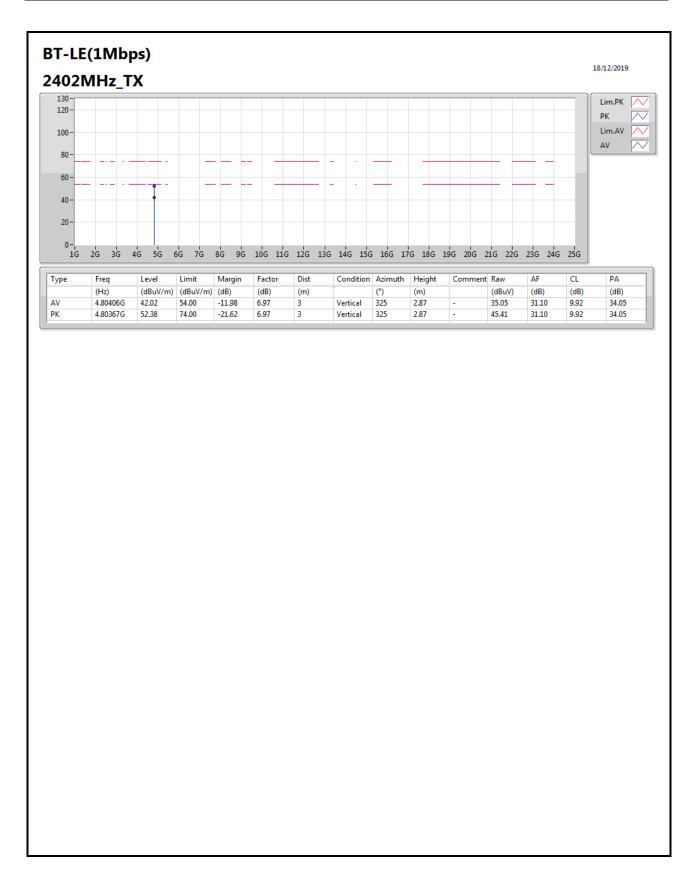
### Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(m)		(°)	(m)	
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3684G	48.28	54.00	-5.72	3	Vertical	199	1.50	-
2402MHz	Pass	AV	2.402G	93.33	Inf	-Inf	3	Vertical	199	1.50	-
2402MHz	Pass	PK	2.3718G	60.54	74.00	-13.46	3	Vertical	199	1.50	-
2402MHz	Pass	PK	2.4022G	94.33	Inf	-Inf	3	Vertical	199	1.50	-
2402MHz	Pass	AV	2.3704G	48.39	54.00	-5.61	3	Horizontal	7	1.50	-
2402MHz	Pass	AV	2.402G	101.24	Inf	-Inf	3	Horizontal	7	1.50	-
2402MHz	Pass	PK	2.3642G	59.94	74.00	-14.06	3	Horizontal	7	1.50	-
2402MHz	Pass	PK	2.4022G	102.23	Inf	-Inf	3	Horizontal	7	1.50	-
2402MHz	Pass	AV	4.80406G	42.02	54.00	-11.98	3	Vertical	325	2.87	-
2402MHz	Pass	PK	4.80367G	52.38	74.00	-21.62	3	Vertical	325	2.87	-
2402MHz	Pass	AV	4.80401G	45.55	54.00	-8.45	3	Horizontal	331	2.84	-
2402MHz	Pass	PK	4.80355G	53.40	74.00	-20.60	3	Horizontal	331	2.84	-
2440MHz	Pass	AV	2.38G	48.22	54.00	-5.78	3	Vertical	300	3.00	-
2440MHz	Pass	AV	2.44G	99.76	Inf	-Inf	3	Vertical	300	3.00	-
2440MHz	Pass	AV	2.484G	48.30	54.00	-5.70	3	Vertical	300	3.00	-
2440MHz	Pass	PK	2.3496G	59.81	74.00	-14.19	3	Vertical	300	3.00	-
2440MHz	Pass	PK	2.4404G	100.74	Inf	-Inf	3	Vertical	300	3.00	-
2440MHz	Pass	PK	2.4884G	59.71	74.00	-14.29	3	Vertical	300	3.00	-
2440MHz	Pass	AV	2.3548G	48.37	54.00	-5.63	3	Horizontal	16	2.99	-
2440MHz	Pass	AV	2.44G	103.81	Inf	-Inf	3	Horizontal	16	2.99	-
2440MHz	Pass	AV	2.4964G	48.25	54.00	-5.75	3	Horizontal	16	2.99	-
2440MHz	Pass	PK	2.3604G	60.01	74.00	-13.99	3	Horizontal	16	2.99	-
2440MHz	Pass	PK	2.4404G	104.74	Inf	-Inf	3	Horizontal	16	2.99	-
2440MHz	Pass	PK	2.4996G	59.75	74.00	-14.25	3	Horizontal	16	2.99	-
2440MHz	Pass	AV	4.87966G	40.35	54.00	-13.65	3	Vertical	301	1.00	-
2440MHz	Pass	PK	4.88019G	51.30	74.00	-22.70	3	Vertical	301	1.00	-
2440MHz	Pass	AV	4.88005G	43.32	54.00	-10.68	3	Horizontal	336	2.87	-
2440MHz	Pass	PK	4.8796G	52.63	74.00	-21.37	3	Horizontal	336	2.87	-
2480MHz	Pass	AV	2.48G	97.84	Inf	-Inf	3	Vertical	330	2.71	-
2480MHz	Pass	AV	2.5G	48.53	54.00	-5.47	3	Vertical	330	2.71	-
2480MHz	Pass	PK	2.4798G	98.92	Inf	-Inf	3	Vertical	330	2.71	-
2480MHz	Pass	PK	2.4942G	60.19	74.00	-13.81	3	Vertical	330	2.71	-
2480MHz	Pass	AV	2.48G	100.78	Inf	-Inf	3	Horizontal	10	2.96	-
2480MHz	Pass	AV	2.4918G	48.51	54.00	-5.49	3	Horizontal	10	2.96	-
2480MHz	Pass	PK	2.4798G	101.87	Inf	-Inf	3	Horizontal	10	2.96	-
2480MHz	Pass	PK	2.4996G	59.77	74.00	-14.23	3	Horizontal	10	2.96	-
2480MHz	Pass	AV	4.95982G	40.15	54.00	-13.85	3	Vertical	301	1.00	-
2480MHz	Pass	PK	4.96049G	50.89	74.00	-23.11	3	Vertical	301	1.00	-
2480MHz	Pass	AV	4.95979G	41.89	54.00	-12.11	3	Horizontal	336	2.80	-
2480MHz	Pass	PK	4.95971G	51.92	74.00	-22.08	3	Horizontal	336	2.80	-









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