Report No.: FR031609AD





# FCC RADIO TEST REPORT

FCC ID

: 2AWNEKDE20102

Equipment

: Home Entertainment Hub

Brand Name : E1 by Ericsson

Model Name

: KDE20102

Applicant

: Ericsson AB

21-23 Torshamnsgatan Stockholm, 16480 Sweden

Manufacturer : CyberTAN Technology Inc.

No. 99, Park Avenue III Science-based Industrial Park

Hsinchu Taiwan 308

Standard

: 47 CFR FCC Part 15.247

The product was received on Mar. 27, 2020, and testing was started from Apr. 07, 2020 and completed on May 22, 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: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

TEL: 886-3-656-9065

Page Number

: 1 of 28

FAX: 886-3-656-9085

Issued Date

: Aug. 07, 2020

Report Template No.: CB-A10\_6 Ver1.2

Report Version : 02

# **Table of Contents**

Report No.: FR031609AD

Histo	ory of this test report	3
Sum	mary of Test Result	4
1	General Description	5
1.1	Information	5
1.2	Applicable Standards	7
1.3	Testing Location Information	7
1.4	Measurement Uncertainty	7
2	Test Configuration of EUT	8
2.1	Test Channel Mode	
2.2	The Worst Case Measurement Configuration	
2.3	EUT Operation during Test	
2.4	Accessories	
2.5	Support Equipment	
2.6	Test Setup Diagram	13
3	Transmitter Test Result	15
3.1	AC Power-line Conducted Emissions	
3.2	DTS Bandwidth	
3.3	Maximum Conducted Output Power	
3.4	Power Spectral Density	
3.5	Emissions in Non-restricted Frequency Bands	
3.6	Emissions in Restricted Frequency Bands	23
4	Test Equipment and Calibration Data	27
Appe	endix A. Test Results of AC Power-line Conducted Emissions	
Appe	endix B. Test Results of DTS Bandwidth	
Appe	endix C. Test Results of Maximum Conducted Output Power	
Appe	endix D. Test Results of Power Spectral Density	
Appe	endix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appe	endix F. Test Results of Emissions in Restricted Frequency Bands	
Appe	endix G. Test Results of Radiated Emission Co-location	
Appe	endix H. Test Photos	
Phot	ographs of EUT v01	

TEL: 886-3-656-9065 Page Number : 2 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# History of this test report

Report No.: FR031609AD

Report No.	Version	Description	Issued Date
FR031609AD	01	Initial issue of report	Aug. 05, 2020
FR031609AD	02	Changing the support type of bridge function to "Slave without radar detection" from "Master".	Aug. 07, 2020

TEL: 886-3-656-9065 Page Number : 3 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# **Summary of Test Result**

Report No.: FR031609AD

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:**

- 1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
- 2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen Report Producer: Cindy Peng

TEL: 886-3-656-9065 Page Number : 4 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 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]

Report No.: FR031609AD

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

#### Note:

- Bluetooth LE uses a GFSK modulation.
- BWch is the nominal channel bandwidth.

#### 1.1.2 Antenna Information

For WLAN 2.4GHz / WLAN 5GHz / Bluetooth / Zigbee function:

	Po	ort					Gain	(dBi)
Ant.	WLAN	WLAN	Brand	Model Name	Type	Connector	WLAN	WLAN 5GHz
	2.4GHz	5GHz B1					2.4GHz	B1
1	1	1	Airgain	N2420DSRD	PCB	I-PEX	2.2	3.1
2	2	2	Airgain	N2420DSRF	PCB	I-PEX	2.7	3.3
	Port						Gain (dBi)	
Ant.	WLAN	Zigbee	Brand	Model Name	Type	Connector	WLAN 5GHz	Zighoo
	5GHz B4	Zigbee					B4	Zigbee
3	1	1	Airgain	N2420DSRC	PCB	I-PEX	3.1	2.8
	Port						Gain	(dBi)
Ant.	WLAN	Diverse	Brand	Model Name	Type	Connector	<b>WLAN 5GHz</b>	Divista oth
	5GHz B4						B4	Bluetooth
4	2	1	Airgain	N2420DSRE	PCB	I-PEX	3.1	2.7

Note1: B1 means band 1, B4 means band 4.

Note2: The above information was declared by manufacturer.

Note3: For WLAN 2.4GHz function (2TX/2RX):

The WLAN 2.4GHz supports the b, g, n, VHT.

Port 1 and Port 2 could transmit/receive simultaneously.

Note4: For WLAN 5GHz Band 1 function (2TX/2RX):

The WLAN 5GHz Band 1 supports the a, n, ac.

Port 1 and Port 2 could transmit/receive simultaneously.

Note5: For WLAN 5GHz Band 4 function (2TX/2RX):

The WLAN 5GHz Band 4 supports the a, n, ac.

Port 1 and Port 2 could transmit/receive simultaneously.

Note6: For Zigbee function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving.

Note7: For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving.

TEL: 886-3-656-9065 Page Number : 5 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

#### 1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR (1Mbps)	0.474	3.24	2.899m	1k
BT-EDR (2Mbps)	0.498	3.03	2.906m	1k
BT-EDR (3Mbps)	0.499	3.02	2.908m	1k

Report No.: FR031609AD

N	Oto.	
ľ	Ole.	

- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

# 1.1.4 EUT Operational Condition

EUT Power Type	From power adapter					
Function	$\boxtimes$	Point-to-multipoint		Point-to-point		
<b>Test Software Version</b>	Blue Test3					
	$\boxtimes$	LE 1M PHY: 1 Mb/s				
Support Mode		LE Coded PHY (S=2): 500 Kb/s				
Support Mode		LE Coded PHY (S=8): 125 Kb/s				
		LE 2M PHY: 2 Mb/s				

Note: The above information was declared by manufacturer.

#### 1.1.5 Table of WWAN Module

The EUT contains a LTE module, the detail information as following.

Brand Name	Model Name	FCC ID	Function
Telit	LN960A16	RI7LN960A16	LTE: Band 2/4/5/7/12/13/14/17/25/26/30/38/41/66

#### 1.1.6 Table for EUT Supports Functions

Function	Support Type
AP	Master
Mesh	Master
Bridge	Slave without radar detection

Note: The "AP mode" has been selected to test and recorded in the test report by manufacturer.

TEL: 886-3-656-9065 Page Number : 6 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 1.2 Applicable Standards

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

Report No.: FR031609AD

- 47 CFR FCC Part 15
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 558074 D01 v05r02
- FCC KDB 414788 D01 v01r01

#### 1.3 Testing Location Information

	Testing Location							
	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				
$\boxtimes$	JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.				
		TEL	:	886-3-656-9065 FAX : 886-3-656-9085				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH03-CB	Owen Hsu	23.5~25.5°C / 53~55%	Apr. 10, 2020~May 08, 2020
Radiated Below 1GHz (Mode 1~Mode 3)	03CH06-CB	JN Du	22.7~23.5°C / 53~57%	Apr. 13, 2020~May 22, 2020
Radiated Below 1GHz (Mode 4~Mode 6)	03CH06-CB	Eason Chen	22.7~23.5°C / 53~57%	Apr. 09, 2020~May 14, 2020
Radiated Above 1GHz	03CH03-CB, 03CH04-CB	Eason Chen	22.7~23.5°C / 53~57%	Apr. 09, 2020~May 14, 2020
AC Conduction	CO01-CB	Ryo Fan	21~22°C / 60~63%	Apr. 07, 2020

Test site Designation No. TW0006 with FCC.

# 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)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%

TEL: 886-3-656-9065 Page Number : 7 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

Test site registered number IC 4086D with Industry Canada.

# 2 Test Configuration of EUT

# 2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	10
2440MHz	7
2480MHz	7

Report No.: FR031609AD

 TEL: 886-3-656-9065
 Page Number
 : 8 of 28

 FAX: 886-3-656-9085
 Issued Date
 : Aug. 07, 2020

#### **The Worst Case Measurement Configuration** 2.2

The Worst Case Mode for Following Conformance Tests			
Tests Item	Tests Item AC power-line conducted emissions		
Condition AC power-line conducted measurement for line and neutral			
Operating Mode Normal Link			
1 AP mode with LTE Link: Band 2 – EUT + Adapter 1 + Power cable			
2 AP mode with LTE Link: Band 4 – EUT + Adapter 2 + Power cable			
For operating mode 2 is the worst case and it was record in this test report.			

Report No.: FR031609AD

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			

Th	The Worst Case Mode for Following Conformance Tests				
Tests Item	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	СТХ				
1	WLAN 2.4GHz + Adapter 1				
2	WLAN 5GHz Band 1 + Adapter 1				
3	WLAN 5GHz Band 4 + Adapter 1				
4	Bluetooth + Adapter 1				
5	Zigbee + Adapter 1				
Mode 4 has been evaluated to be the worst case among Mode 1~5, thus measurement for Mode 6 will follow this same test mode.					
6	Bluetooth + Adapter 2				
For operating mode 6 is the	For operating mode 6 is the worst case and it was record in this test report.				
Operating Mode > 1GHz CTX					

TEL: 886-3-656-9065 Page Number : 9 of 28 FAX: 886-3-656-9085 : Aug. 07, 2020 Issued Date Report Version : 02

Report Template No.: CB-A10\_6 Ver1.2

The Worst Case Mode for Following Conformance Tests				
Tests Item	Tests Item Simultaneous Transmission Analysis - Radiated Emission Co-location			
Test Condition Radiated measurement				
Operating Mode Normal Link				

Report No.: FR031609AD

The Operating Mode of Radiated Emission Co-location as below:

- 1. WLAN 2.4GHz + WLAN 5GHz Band 1
- 2. WLAN 5GHz Band 4 + Bluetooth
- 3. WLAN 5GHz Band 4 + Zigbee

After evaluating, the full function generated the worst case, thus the measurement will follow this same test configuration.

4	WLAN 2.4GHz + WLAN 5GHz Band 1 + WLAN 5GHz Band 4 + Bluetooth +
ı	Zigbee

Refer to Appendix G for Radiated Emission Co-location.

The Worst Case Mode for Following Conformance Tests			
Tests Item Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation			
Operating Mode			
1 WLAN 2.4GHz + WLAN 5GHz Band 1 + WLAN 5GHz Band 4 + Bluetooth Zigbee + LTE			
Refer to Sporton Test Report No.: FA031609 for Co-location RF Exposure Evaluation.			

Note: The EUT can only be used Z axis.

# 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

TEL: 886-3-656-9065 Page Number : 10 of 28 FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 2.4 Accessories

	Accessories					
No.	Equipment Name	Brand Name	Model Name	Rating	Remark	
1	Adapter 1	FSP	FSP100-A1AR3	INPUT: 100-240V~50-60Hz, 1.4A OUTPUT: 5V, 3A / 9V, 3A 12V, 3A / 15V, 3A 20V, 5.0A 100W MAX.	With the cable: Non-shielded, 1.6m	
2	Adapter 2	DELTA	ADH-100CR B	INPUT: 100-240V~1.8A, 50-60Hz OUTPUT: 5.0V, 3.0A, 15.0W or 9.0V, 3.0A 15.0V, 3.0A or 20.0V, 5.0A 100.0W.	With the cable: Non-shielded, 1.6m	
	Others					
3	3 HDMI cable*1: Shielded, 1.5m					
4	4 USB-C to USB-A cable*1: Shielded, 0.1m					
5	Power cable*1: Non-shielded, 1m					

Report No.: FR031609AD

TEL: 886-3-656-9065 Page Number : 11 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 2.5 Support Equipment

#### For AC Conduction:

	Support Equipment					
No.	Equipment	Brand Name	Model Name	FCC ID		
Α	TV	ASUS	VP28U	N/A		
В	Micro SD card	Transcend	TS16GUSDHC10	N/A		
С	SIM card	N/A	N/A	N/A		
D	LAN NB	DELL	E6430	N/A		
Е	WAN NB	DELL	E6430	N/A		
F	2.4G NB	DELL	E6430	N/A		
G	5G-1 NB	DELL	E6430	N/A		
Н	5G-2 NB	DELL	E6430	N/A		
ı	Bluetooth speaker	Wei Xuan	S06B	N/A		
J	Zigbee device	N/A	N/A	N/A		
K	LTE base station	Anritsu	MT8820C	N/A		
L	Air mouse	HENGCHUANGYU	HCY-57B	2AOBUHCY-57B		

Report No.: FR031609AD

#### For Radiated:

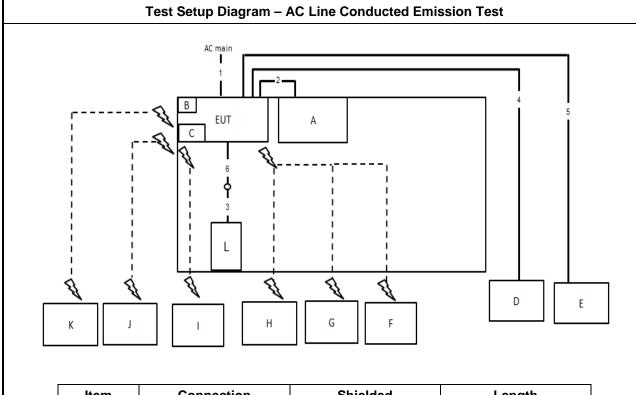
	Support Equipment					
No.	No. Equipment Brand Name Model Name FCC ID					
Α	LCD Monitor	DELL	1704FPTt	N/A		
В	USB Hub	IOTNPCI	HB-16	N/A		
С	Keyboard	iCooky	SK068	N/A		
D	Mouse	Logitech	M-U0026	N/A		

#### For RF Conducted:

	Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID	
Α	NB	DELL	E4300	N/A	

TEL: 886-3-656-9065 Page Number : 12 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 2.6 Test Setup Diagram



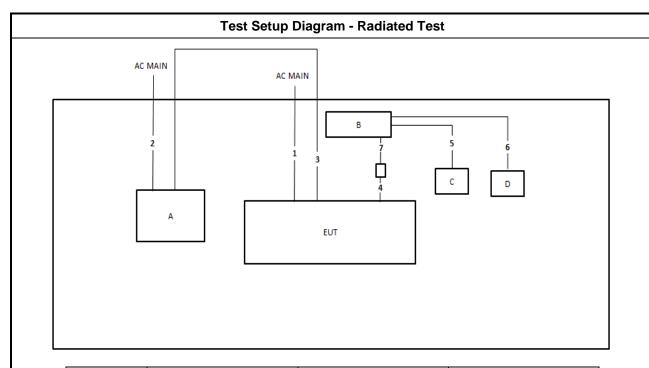
Report No.: FR031609AD

Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	HDMI cable	Yes	1.5m
3	USB cable	Yes	0.9m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	10m
6	USB cable	Yes	0.1m

 TEL: 886-3-656-9065
 Page Number
 : 13 of 28

 FAX: 886-3-656-9085
 Issued Date
 : Aug. 07, 2020

Report No.: FR031609AD



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	Power cable	No	1.5m
3	HDMI cable	Yes	1.5m
4	USB cable	Yes	0.1m
5	USB cable	Yes	1.8m
6	USB cable	Yes	1.8m
7	USB cable	Yes	0.9m

 TEL: 886-3-656-9065
 Page Number
 : 14 of 28

 FAX: 886-3-656-9085
 Issued Date
 : Aug. 07, 2020

# 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
0.5-5	56	46		
5-30	60	50		
Note 1: * Decreases with the logarithm of the frequency.				

Report No.: FR031609AD

#### 3.1.2 Measuring Instruments

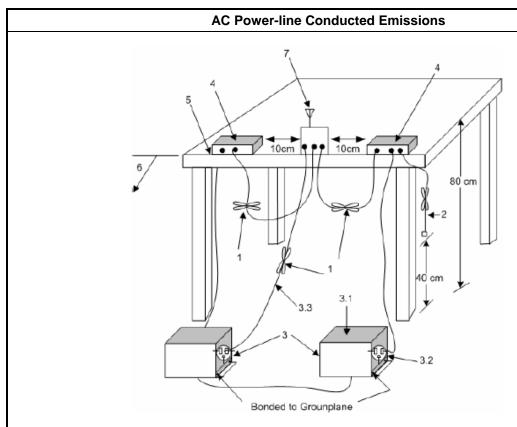
Refer a test equipment and calibration data table in this test report.

#### 3.1.3 Test Procedures

Test Method
<ul> <li>Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.</li> </ul>

TEL: 886-3-656-9065 Page Number : 15 of 28 FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

#### 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.

Report No.: FR031609AD

- 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  $\Omega$  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.

#### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- b. Margin = Limit + (Read Level + LISN Factor + Cable Loss)

#### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

TEL: 886-3-656-9065 Page Number : 16 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

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

Report No.: FR031609AD

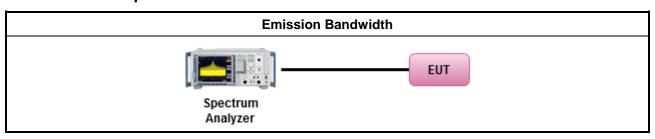
#### 3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.				
		Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.				
		Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.				

# 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

TEL: 886-3-656-9065 Page Number : 17 of 28 FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

# Maximum 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 $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm ■ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ 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 Pout = maximum peak conducted output power or maximum conducted output power in dBm, G<sub>TX</sub> = the maximum transmitting antenna directional gain in dBi.

Report No.: FR031609AD

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

	Test Method	
•	laximum Peak Conducted Output Power	
	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).	
	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).	
•	laximum Conducted Output Power	
— I	duty cycle ≥ 98% or external video / power trigger]	
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.	
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1 (alternative)	Α.
	uty cycle < 98% and average over on/off periods with duty factor	
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.	
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2 (alternative)	2A
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3	
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-(alternative)	3A
	leasurement using a power meter (PM)	
	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using a RF average power meter).	an
	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).	ng

TEL: 886-3-656-9065 Page Number: 18 of 28
FAX: 886-3-656-9085 Issued Date: Aug. 07, 2020

#### For conducted measurement.

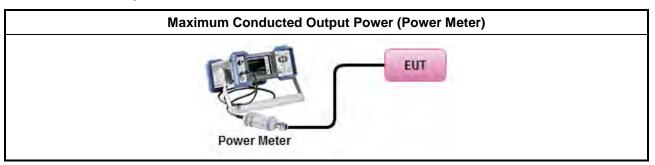
■ If the EUT supports multiple transmit chains using options given below:

Refer as FCC 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.

Report No.: FR031609AD

If multiple transmit chains, EIRP calculation could be following as methods:
P<sub>total</sub> = P<sub>1</sub> + P<sub>2</sub> +... + P<sub>n</sub>
(calculated in linear unit [mW] and transfer to log unit [dBm])
EIRP<sub>total</sub> = P<sub>total</sub> + DG

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

TEL: 886-3-656-9065 Page Number : 19 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 3.4 Power Spectral Density

# 3.4.1 Power Spectral Density Limit

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

Report No.: FR031609AD

#### 3.4.2 Measuring Instruments

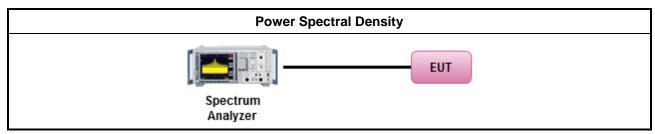
Refer a test equipment and calibration data table in this test report.

#### 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 peal PSD procedure is also an acceptable option).				
	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.				
	[duty cycle ≥ 98% or external video / power trigger]				
•	For conducted measurement.				
	If The EUT supports multiple transmit chains using options given below:				
	Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.				
	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,				
	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.				

TEL: 886-3-656-9065 Page Number : 20 of 28 FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 3.4.4 Test Setup



Report No.: FR031609AD

# 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

 TEL: 886-3-656-9065
 Page Number
 : 21 of 28

 FAX: 886-3-656-9085
 Issued Date
 : Aug. 07, 2020

# 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 (dBc)	
Peak output power procedure	20	
Average output power procedure	30	

Report No.: FR031609AD

- 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 PSD 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 PSD level.

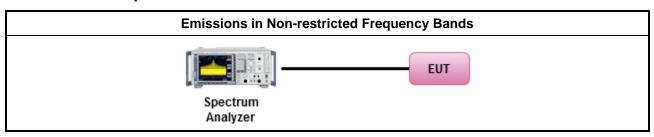
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method	
<ul> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.</li> </ul>	

#### 3.5.4 Test Setup



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

Refer as Appendix E

TEL: 886-3-656-9065 Page Number : 22 of 28
FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

#### 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 Distance (m)		
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.: FR031609AD

- 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.

TEL: 886-3-656-9065 Page Number : 23 of 28 FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

#### 3.6.3 Test Procedures

		Test Method								
•	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:									
	<ul> <li>Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>									
	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for ducycle ≥98%).									
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).								
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).								
		Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.								
		Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.								
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.								
•	For the transmitter band-edge emissions shall be measured using following options below:									
	<ul> <li>Refer as FCC KDB 558074 clause 8.7 &amp; c63.10 clause 11.13.1, When the performing peak average radiated measurements, emissions within 2 MHz of the authorized band edge may I measured using the marker-delta method described below.</li> </ul>									
	<ul> <li>Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>									
		Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).								
	•	For conducted unwanted emissions into restricted bands (absolute emission limits).  Devices with multiple transmit chains using options given below:  (1) Measure and sum the spectra across the outputs or  (2) Measure and add 10 log(N) dB								
	•	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.								

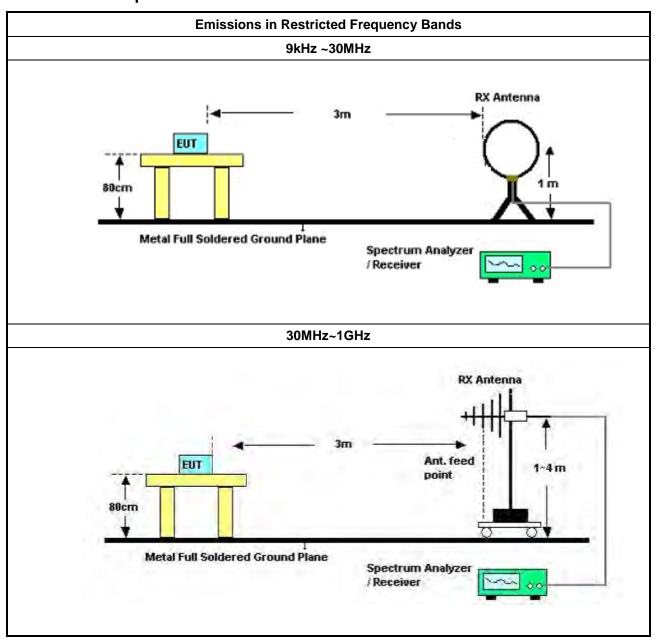
Report No.: FR031609AD

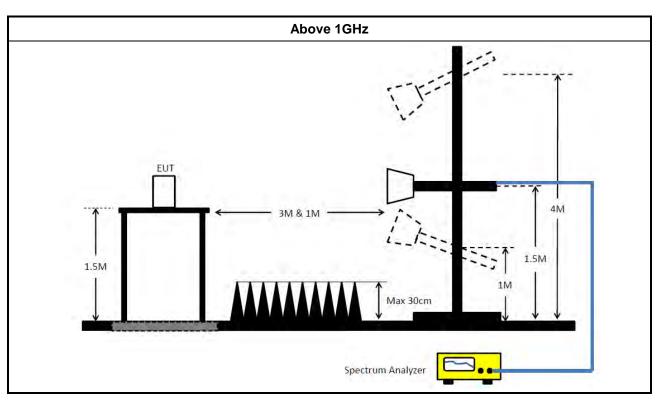
 TEL: 886-3-656-9065
 Page Number : 24 of 28

 FAX: 886-3-656-9085
 Issued Date : Aug. 07, 2020

Report No.: FR031609AD

# 3.6.4 Test Setup





Report No.: FR031609AD

#### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Čable Loss + Read Level - Preamp Factor (if applicable) = Level.

#### 3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

#### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

TEL: 886-3-656-9065 Page Number : 26 of 28 FAX: 886-3-656-9085 Issued Date : Aug. 07, 2020

# 4 Test Equipment and Calibration Data

Instrument Manufactur		Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50- 16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwa rz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16, 2020	Mar. 15, 2021	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 03, 2019	Aug. 02, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	May 07, 2019	May 06, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH06-CB)
RF Cable-low	HUBER+SUH NER	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
Horn Antenna	ETS · Lindgren	3115	6821	750MHz~18GHz	Jan. 20, 2020	Jan. 19, 2021	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Dec. 19, 2019	Dec.18, 2020	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+27	1GHz ~ 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-27	1GHz ~ 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)

TEL: 886-3-656-9065 FAX: 886-3-656-9085

Report Template No.: CB-A10\_6 Ver1.2

Page Number : 27 of 28
Issued Date : Aug. 07, 2020

Report No.: FR031609AD

Report Version : 02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
Horn Antenna	ETS · Lindgren	3115	00143147	750MHz~18GHz	Oct. 22, 2019	Oct. 21, 2020	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 11, 2020	Mar. 10, 2021	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 18, 2019	Dec. 17, 2020	Radiation (03CH04-CB
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+22	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Nov. 01, 2019	Oct. 31, 2020	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)

Report No.: FR031609AD

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

 TEL: 886-3-656-9065
 Page Number : 28 of 28

 FAX: 886-3-656-9085
 Issued Date : Aug. 07, 2020



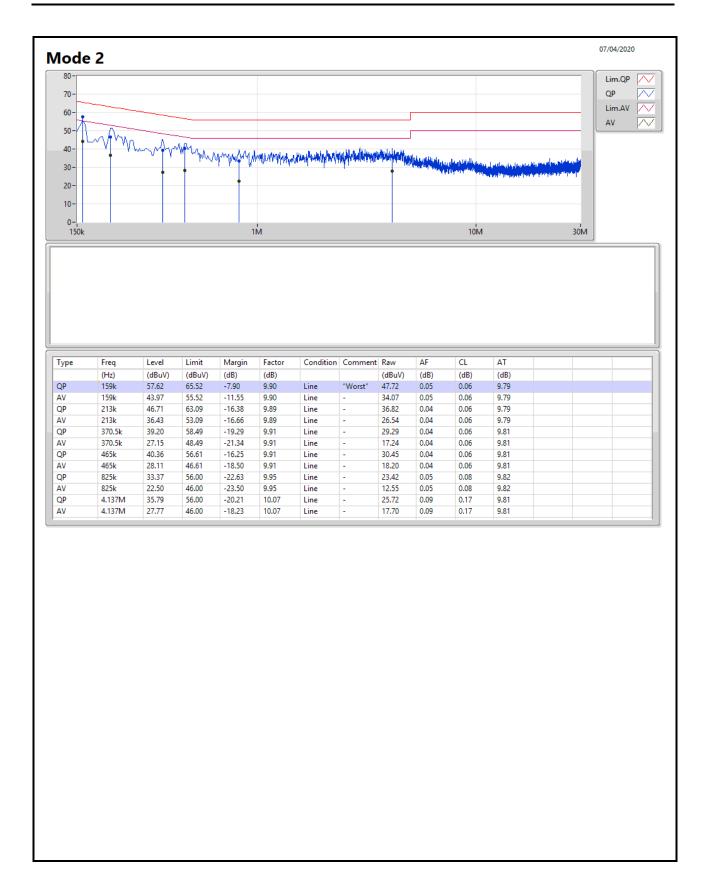
# AC Power Port Conducted Emission Result

Appendix A

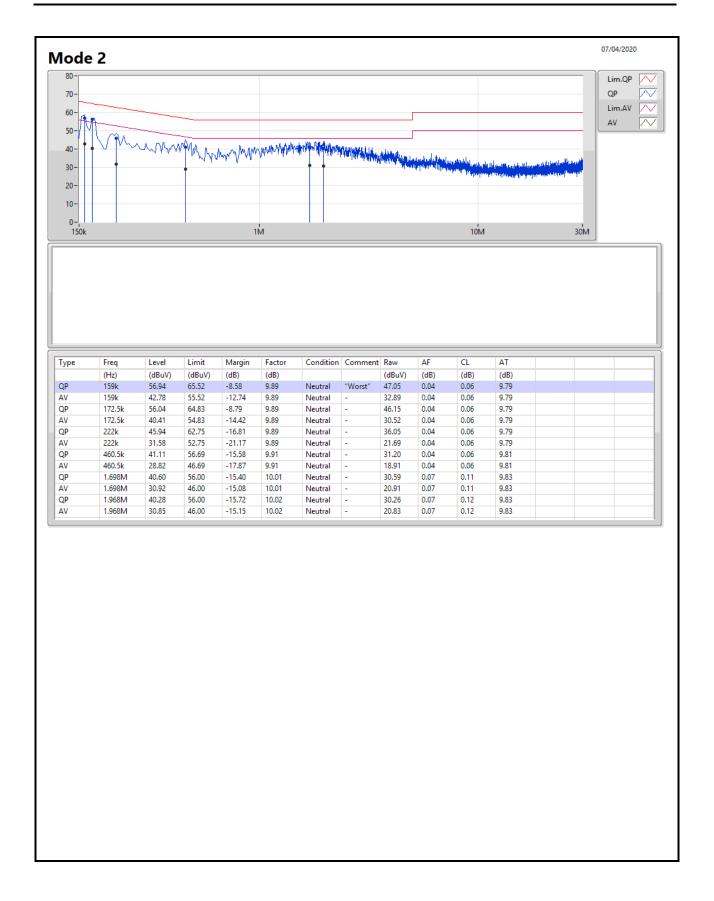
**Summary** 

Mode	Result	Туре	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 2	Pass	QP	159k	57.62	65.52	-7.90	9.90	Line











**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)	706.25k	1.033M	1M03F1D	703.75k	1.027M

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;

Page No.

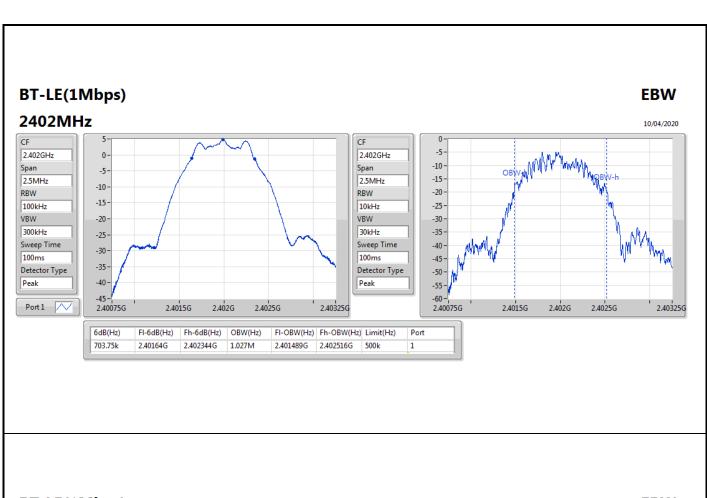
: 1 of 4

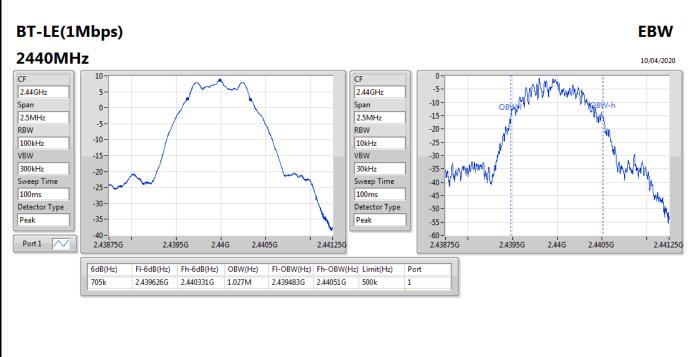


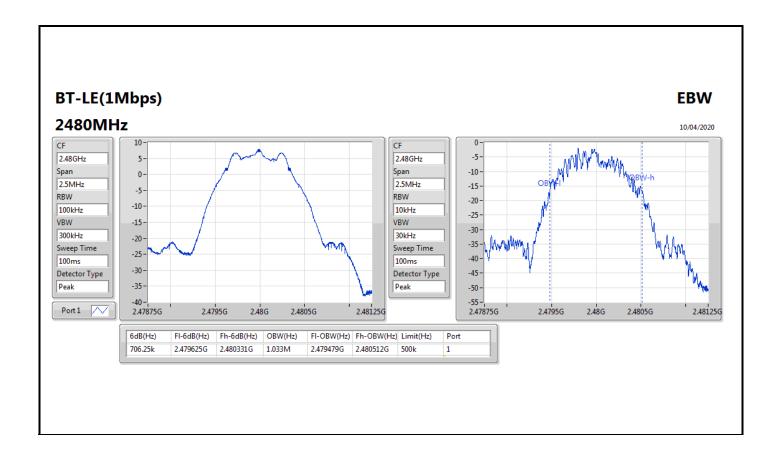
#### Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	703.75k	1.027M
2440MHz	Pass	500k	705k	1.027M
2480MHz	Pass	500k	706.25k	1.033M

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









# Average Power-DTS Result

Appendix C

**Summary** 

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	4.58	0.00287



# Average Power-DTS Result

Appendix C

#### Result

Mode	Result	Gain	Power	Power Limit
		(dBi)	(dBm)	(dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	4.55	30.00
2440MHz	Pass	2.70	4.58	30.00
2480MHz	Pass	2.70	4.33	30.00

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



PSD-DTS Result Appendix D

**Summary** 

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-7.06

RBW=3 kHz.



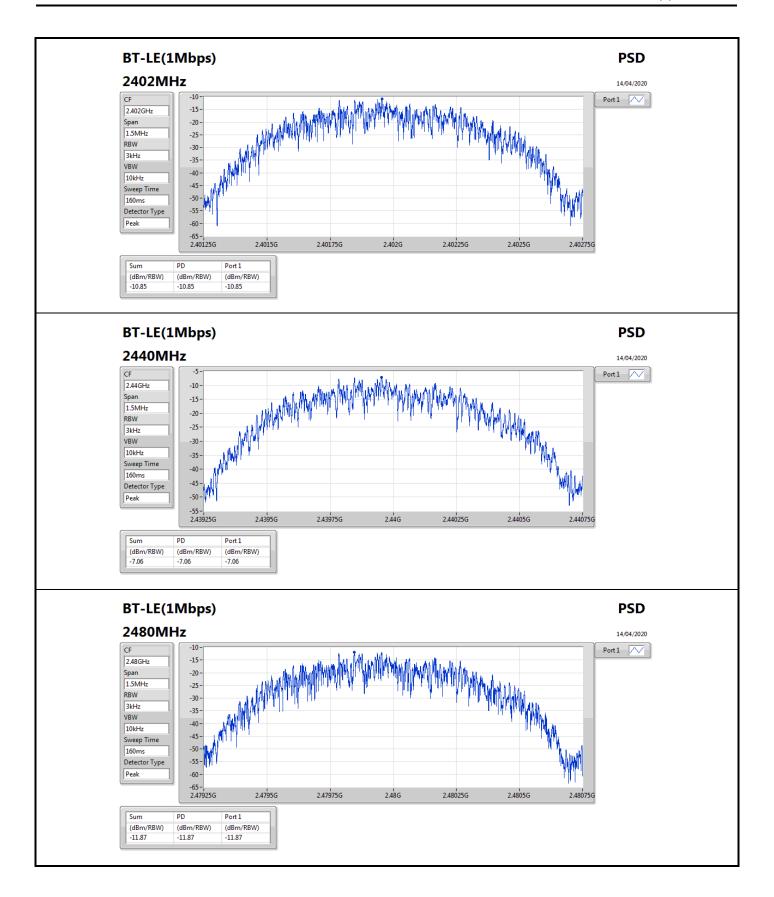
**PSD-DTS Result** Appendix D

#### Result

Mode	Result	Gain	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	-10.85	8.00
2440MHz	Pass	2.70	-7.06	8.00
2480MHz	Pass	2.70	-11.87	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 Result Appendix D





# CSE-DTS(Non-restricted Band) Result

Appendix E

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	2.44G	4.03	-25.97	2.09359G	-55.42	2.39998G	-52.15	2.4G	-52.12	2.50282G	-55.02	24.67942G	-49.17	1



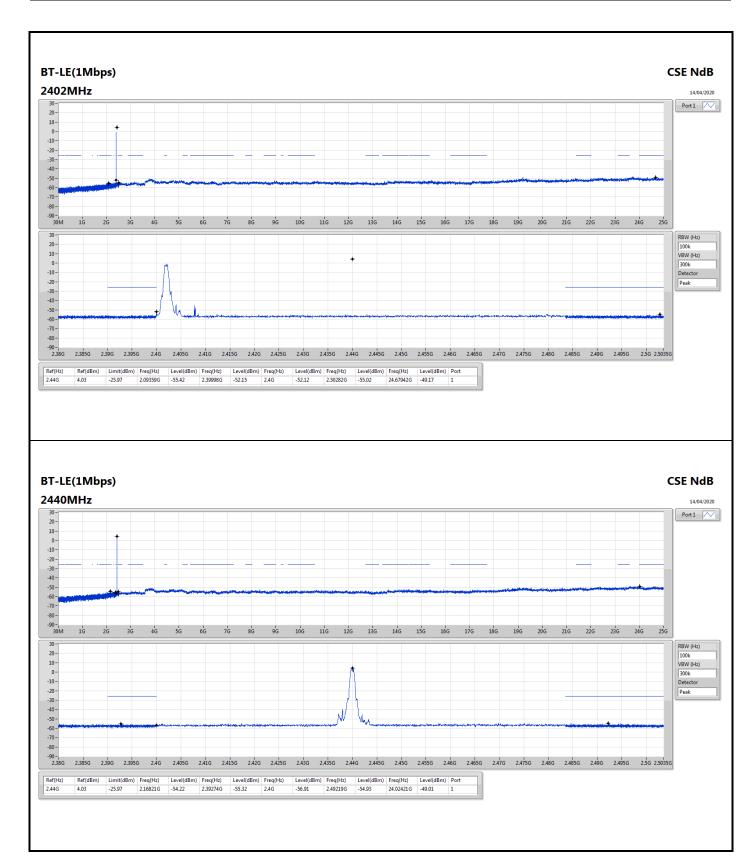
# CSE-DTS(Non-restricted Band) Result

Appendix E

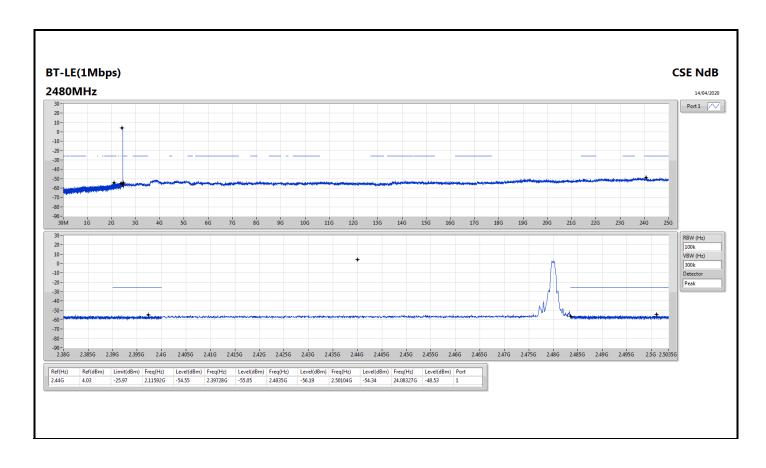
#### Result

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	2.44G	4.03	-25.97	2.09359G	-55.42	2.39998G	-52.15	2.4G	-52.12	2.50282G	-55.02	24.67942G	-49.17	1
2440MHz	Pass	2.44G	4.03	-25.97	2.16821G	-54.22	2.39274G	-55.32	2.4G	-56.91	2.49219G	-54.93	24.02421G	-49.01	1
2480MHz	Pass	2.44G	4.03	-25.97	2.11592G	-54.55	2.39728G	-55.05	2.4835G	-56.19	2.50104G	-54.34	24.08327G	-48.53	1









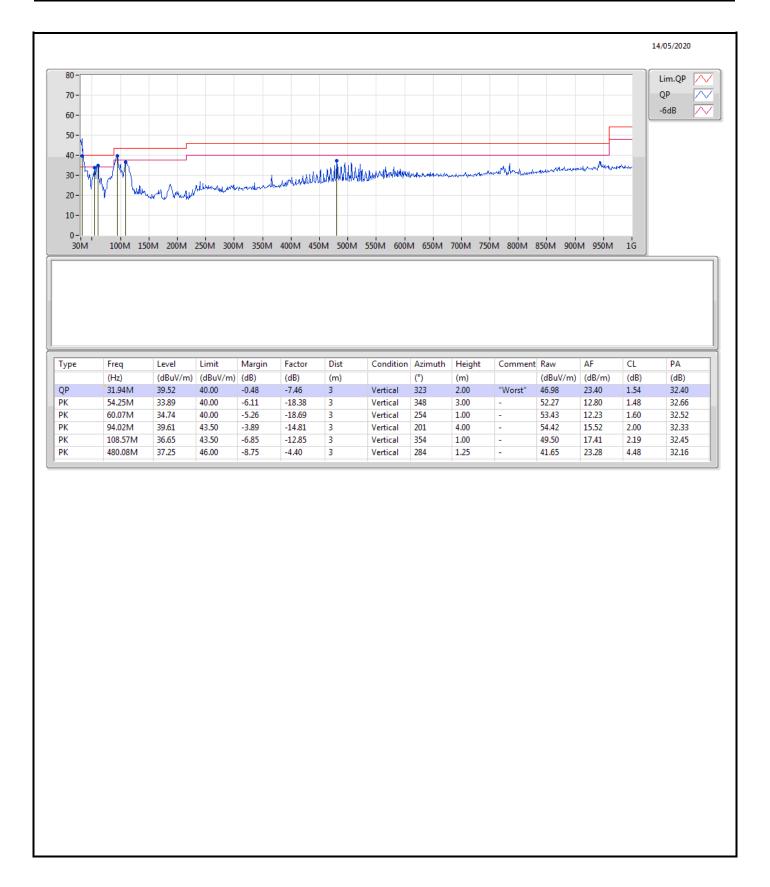


### Radiated Emissions below 1GHz

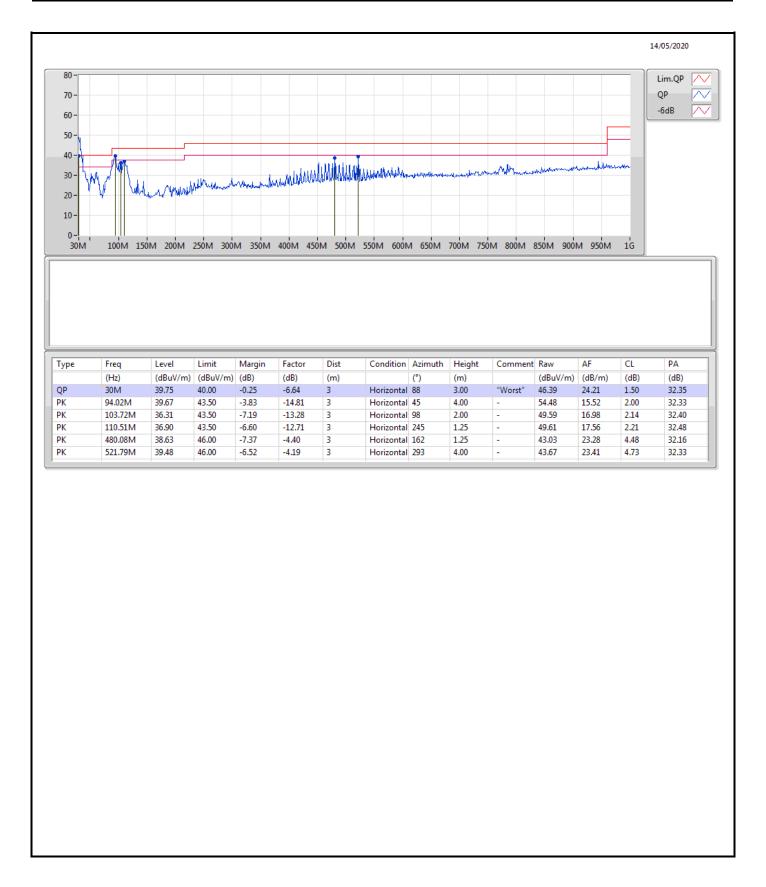
Appendix F.1

Mode	Result	Туре	Freq	Level	Limit	Margin	Condition
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	
Mode 6	Pass	QP	30M	39.75	40.00	-0.25	Horizontal









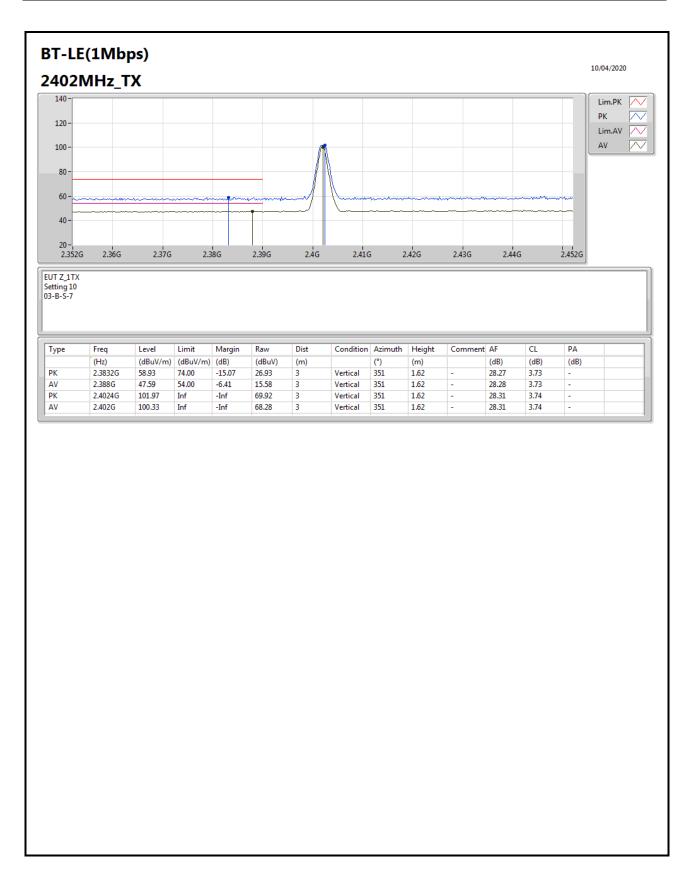


### RSE TX above 1GHz Result

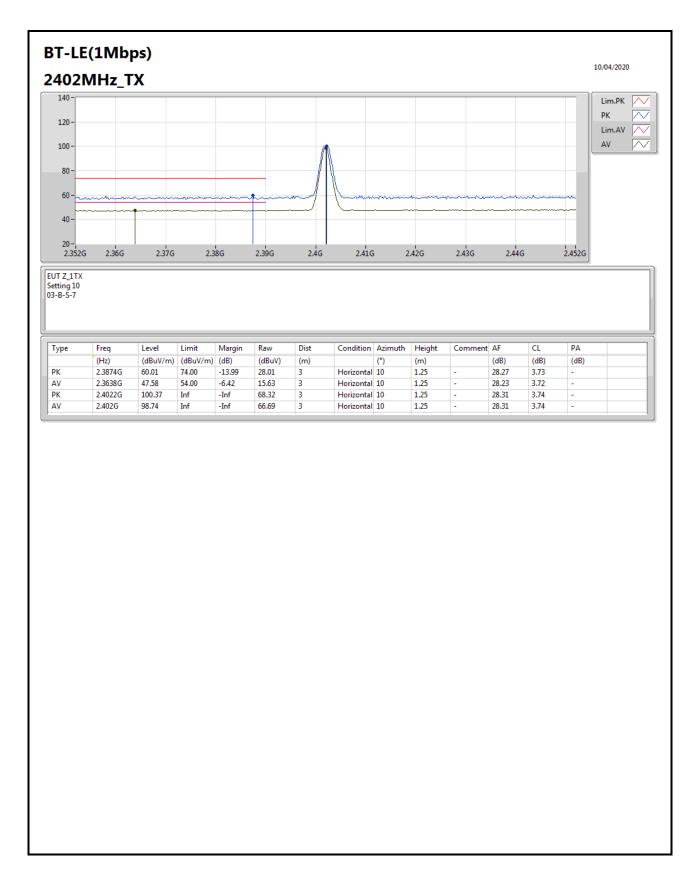
Appendix F.2

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	AV	2.4835G	53.42	54.00	-0.58	3	Vertical	351	1.71	-

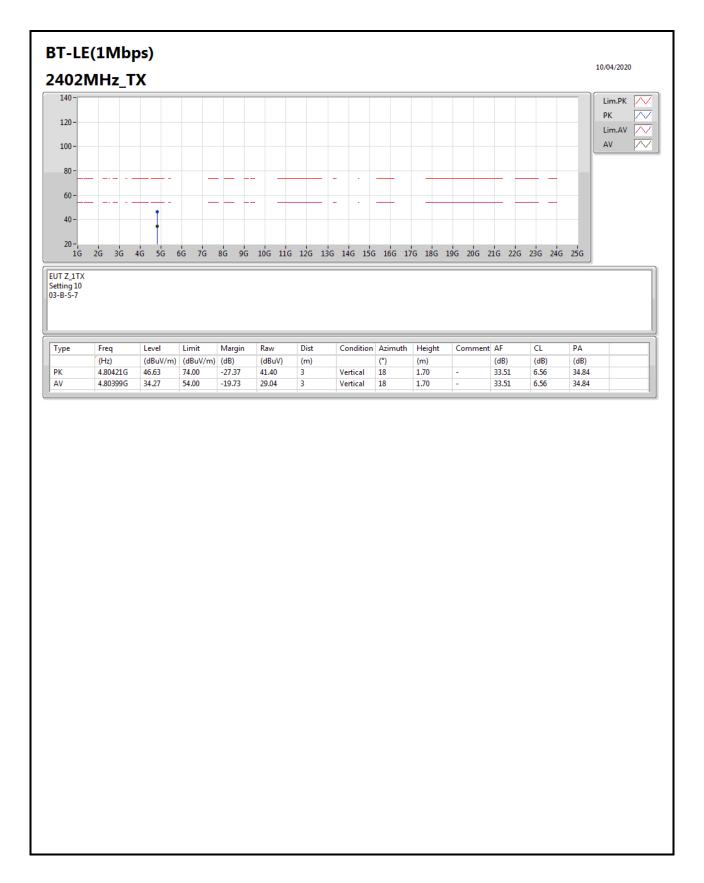




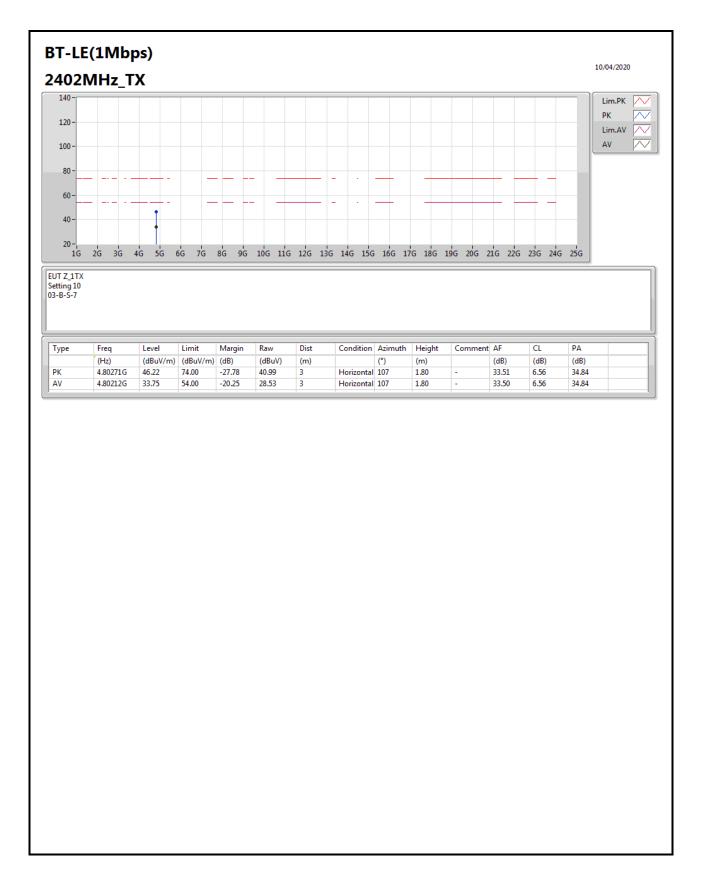




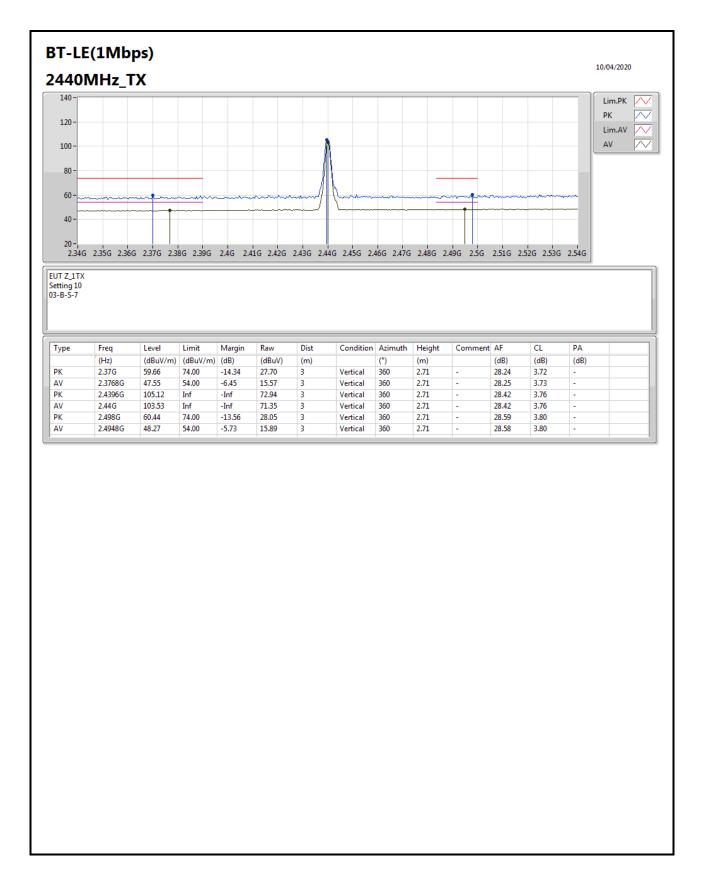




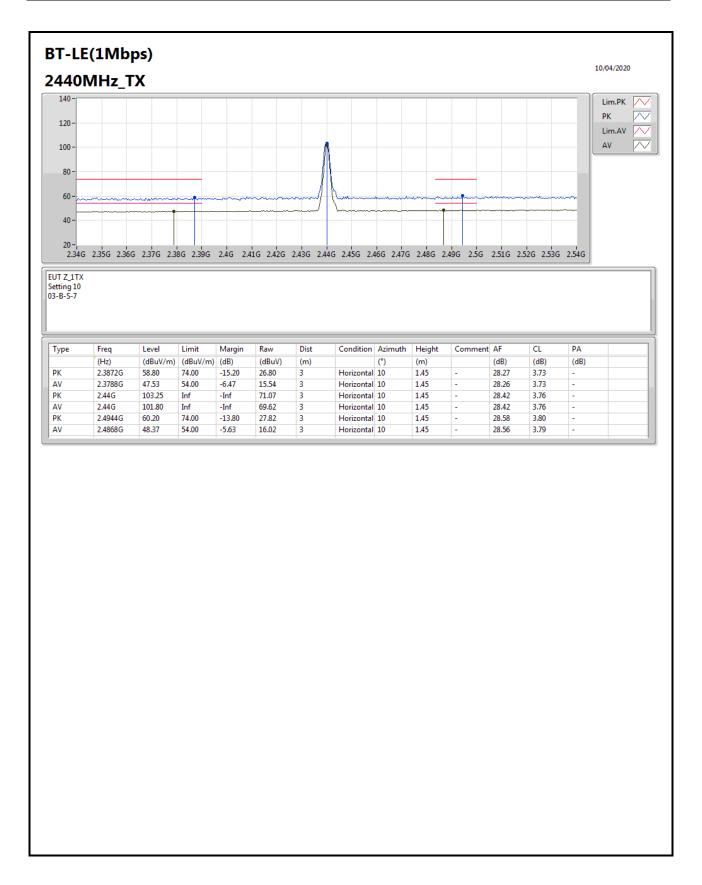




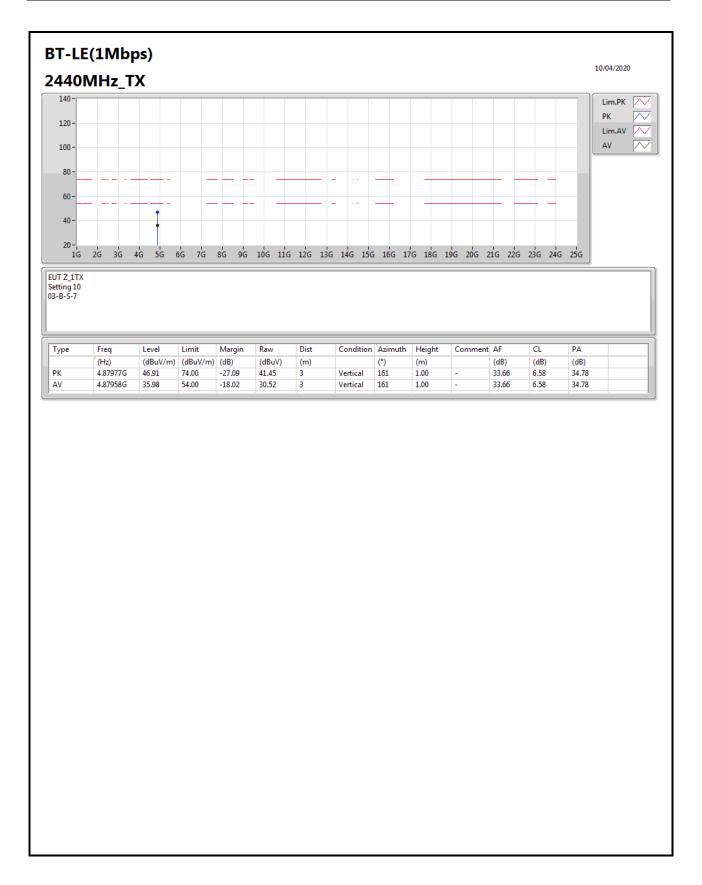




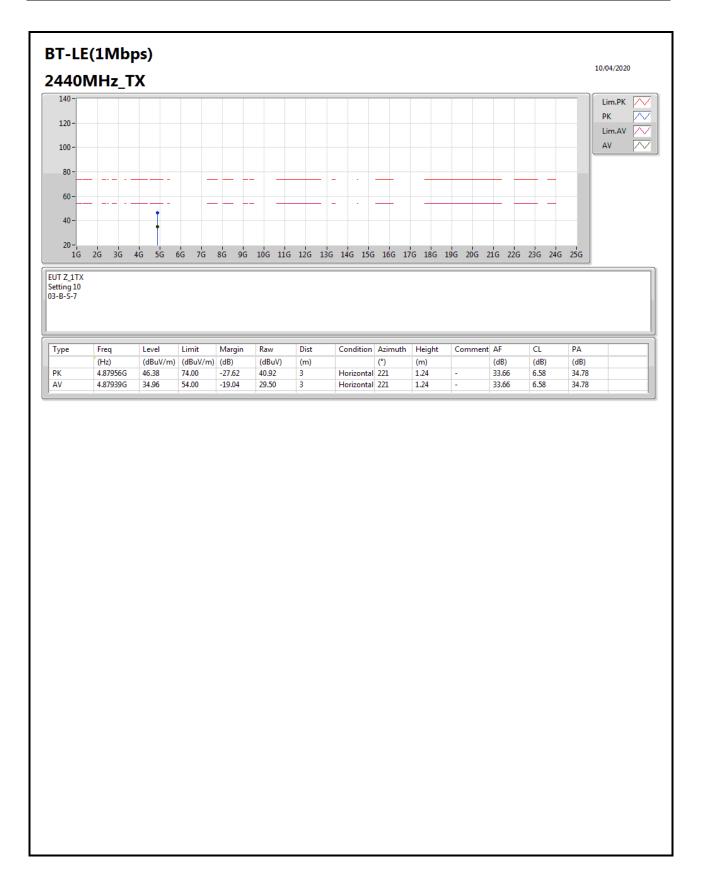




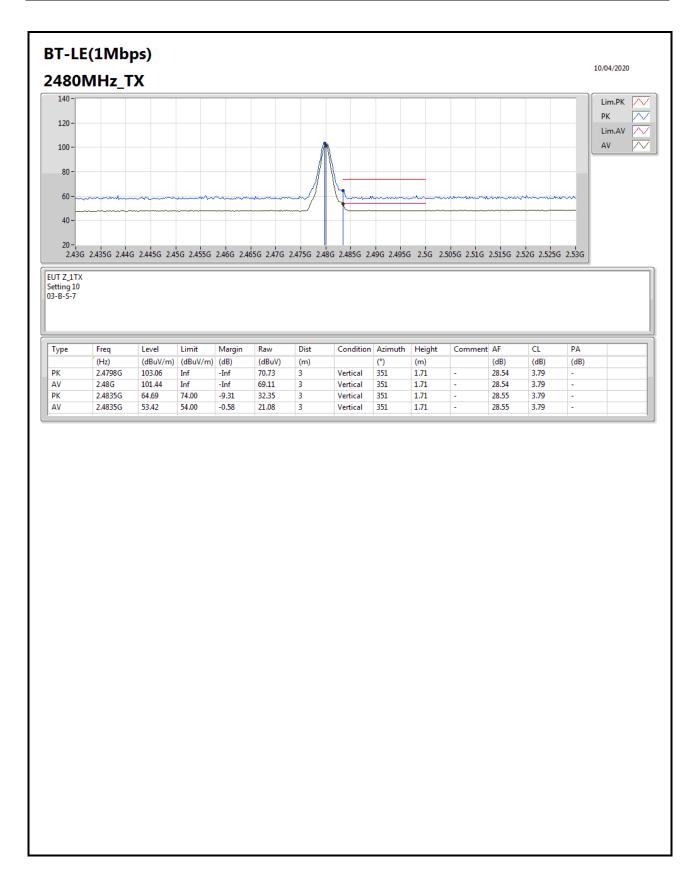




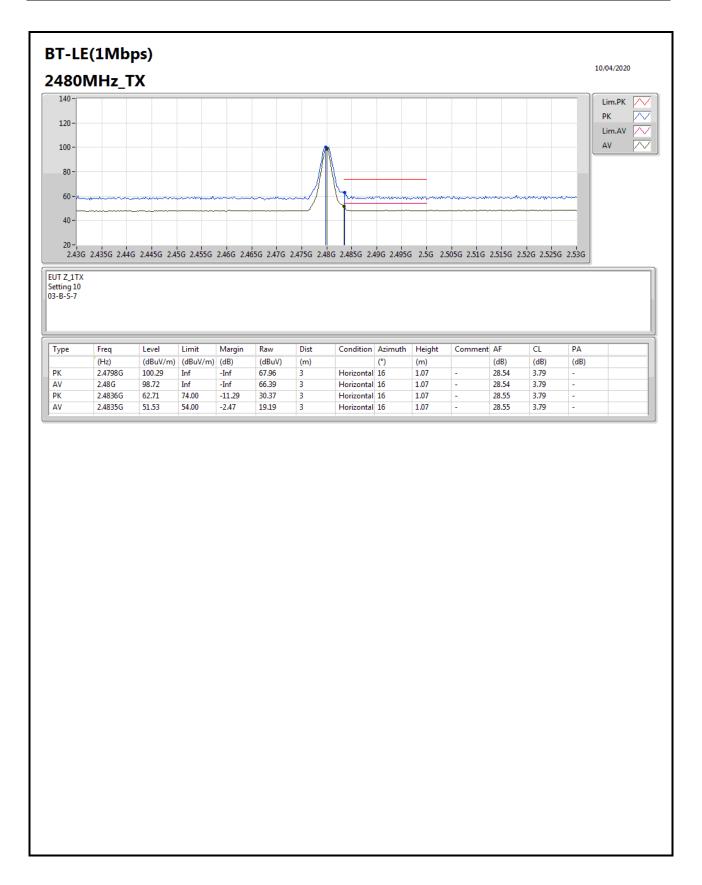




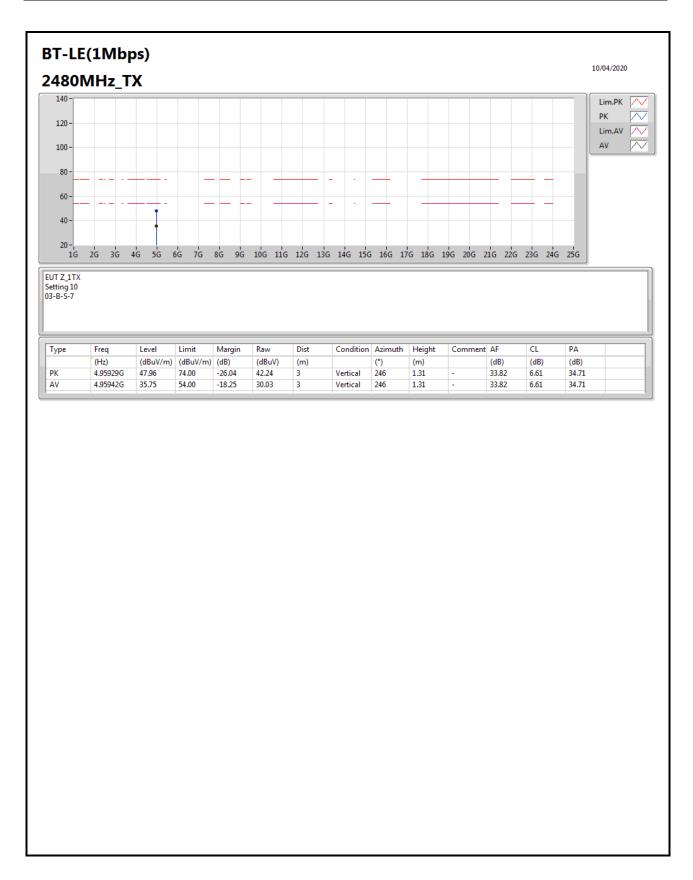




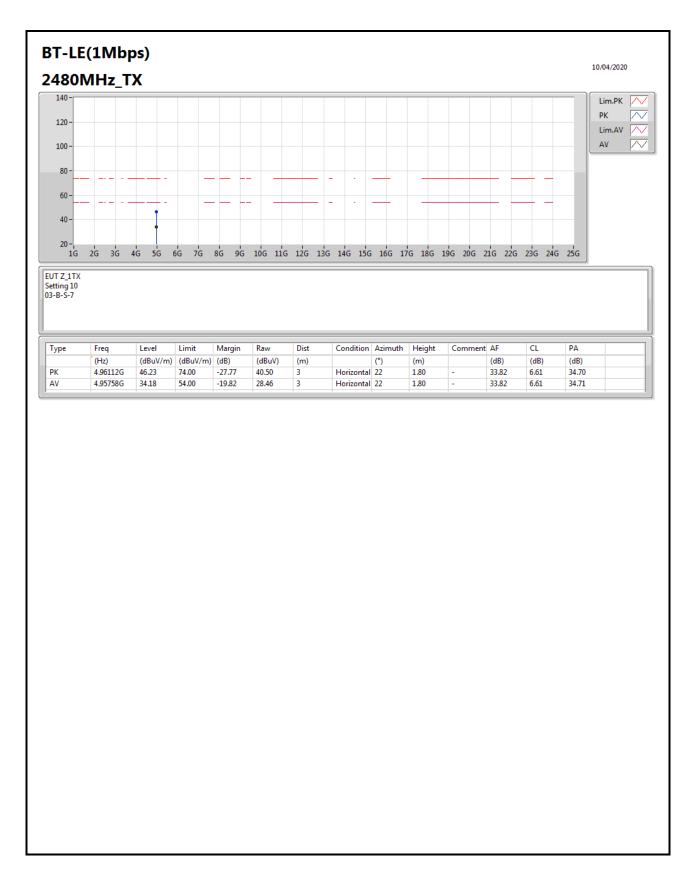














### RSE Co-location Result

Appendix G

Mode	Result	Туре	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.33521G	50.00	54.00	-4.00	Vertical

