



Page 1 of 51

TEST	REPORT

- Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue
- Test Standards Test result

- : Accent® 1000
- Accent
- : ACN1000-40
- : N/A
- : EED32O81494002
- : 2AD9PA-A100040PRC
- : Nov. 17, 2022
- 47 CFR Part 15 Subpart C
- PASS

Prepared for: Prentke Romich Company 1022 Heyl Rd. Wooster, Ohio 44691, United States of America

> Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

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		Frazer Li Acron Mo Aaron Ma	Date	e:		Fom Chen ov. 17, 2022	(T)
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7 PHOTOGRAPHS OF TEST SETUP 8 PHOTOGRAPHS OF EUT CONSTRUCTIONAL			







2 Version





13	Version No.	10	Date		Γ	Descriptio	n	12
(S)	00	Nov.	17, 2022	6		Original		( <u>6</u> ,
	(A)	(			(A)			

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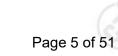
Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	PASS
Maximum Conducted Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	PASS
20dB Emission Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Number of Hopping Channels	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Time of Occupancy	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)	PASS
Band Edge Measurements	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS

#### Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







# 4 General Information

#### 4.1 Client Information

	Applicant:	Prentke Romich Company
	Address of Applicant:	1022 Heyl Rd. Wooster, Ohio 44691, United States of America
X	Manufacturer:	Prentke Romich Company
2	Address of Manufacturer:	1022 Heyl Rd. Wooster, Ohio 44691, United States of America
	Factory:	Estone Technology LTD
	Address of Factory:	2F,Building No.1, Jia'an Industrial Park,No.2 Long Chang Road, Bao'an, Shenzhen 518101, China.

# 4.2 General Description of EUT

Produ	ict Name:	Accent® 1000		
Mode	l No.:	ACN1000-40		-0-
Trade	Mark:	Accent		
Produ	ict Type:	🗌 Mobile 🛛 Po	rtable 🗌 Fix Location	C
Opera	tion Frequency:	2402MHz~2480MH	Z	
Modul	lation Technique:	Frequency Hopping	Spread Spectrum(FHSS)	
Modul	lation Type:	GFSK, π/4DQPSK,	8DPSK	
Numb	er of Channel:	79		
Норрі	ng Channel Type:	Adaptive Frequency	Hopping systems	
Anten	na Type:	internal antenna		
Anten	na Gain:	-0.24dBi		
Power	r Supply:	Adapter:	Model: MANGO60S-18BB-PRC Input: 100-240V~,50/60Hz,1.5A MAX Output: 18V,3.33A,60W MAX	G
		Battery:	Model: 3393A0 DC 7.6V,10600mAh,80.56Wh	
Test V	/oltage:	DC 7.6V		
Samp	le Received Date:	Sep. 23, 2022		
Samp	le tested Date:	Sep. 23, 2022 to No	ov. 08, 2022	
	(0)	G		67





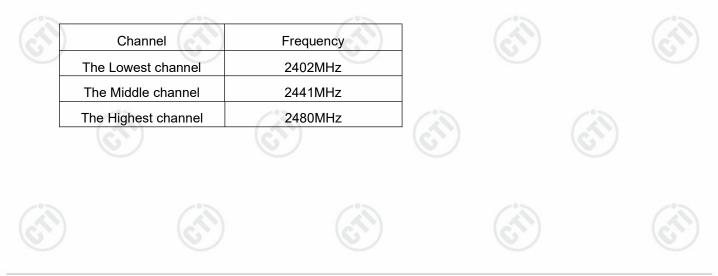


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Operation F	requency each	of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
<b>1</b>	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

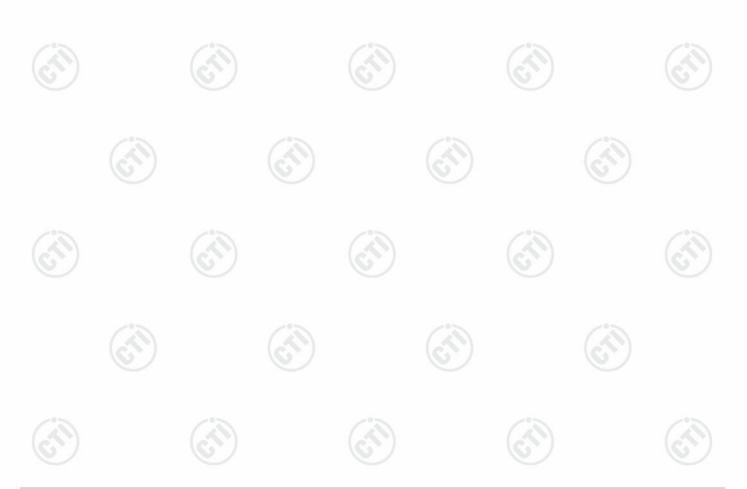






## 4.3 Test Configuration

EUT Test Software Settings	5:					
Software:	DRTU_install.exe	DRTU_install.exe				
EUT Power Grade:	Default(Power level is selected)	Default(Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lo transmitting of the EUT.	owest frequency, the midd	le frequency and the	highest frequency keep			
Mode	Chann	el	Frequency(MHz)			
	СНО		2402			
DH1/DH3/DH5	СНЗ9		2441			
	CH78	j	2480			
	CH0		2402			
2DH1/2DH3/2DH5	СНЗ9	) (	2441			
	CH78		2480			
3DH1/3DH3/3DH5	CH0		2402			
	CH39		2441			
(c.S.)	CH78		2480			









#### 4.4 Test Environment

	(			1 5 3	
Operating Environment	:				
Radiated Spurious Emi	ssions:				
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH		(in)		10
Atmospheric Pressure:	1010mbar		$(\mathcal{O})$		6
<b>Conducted Emissions:</b>					
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH	195		2°2	
Atmospheric Pressure:	1010mbar	$(\mathcal{A})$			
RF Conducted:					
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH				
Atmospheric Pressure:	1010mbar				
	Radiated Spurious EmiTemperature:Humidity:Atmospheric Pressure:Conducted Emissions:Temperature:Humidity:Atmospheric Pressure:RF Conducted:Temperature:Humidity:	Humidity:50~55 % RHAtmospheric Pressure:1010mbarConducted Emissions:22~25.0 °CTemperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CTemperature:22~25.0 °CHumidity:50~55 % RH	Radiated Spurious Emissions:Temperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarConducted Emissions:Temperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CTemperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CHumidity:50~55 % RH	Radiated Spurious Emissions:Temperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarConducted Emissions:Temperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CTemperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CHumidity:50~55 % RH	Radiated Spurious Emissions:Temperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarConducted Emissions:Temperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CTemperature:22~25.0 °CHumidity:50~55 % RHAtmospheric Pressure:1010mbarRF Conducted:22~25.0 °CTemperature:22~25.0 °CHumidity:50~55 % RH

#### 4.5 Description of Support Units

The EUT has been tested independently

## 4.6 Test Location

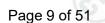
All tests were performed at:

Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted. FCC Designation No.: CN1164



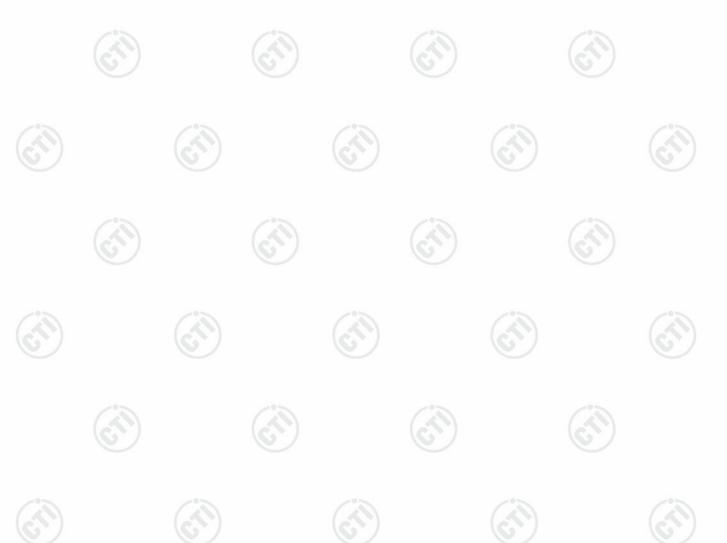






# 4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 <sup>-8</sup>	
2	PE power conducted	0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-40GHz)	
	(S) (S)	3.3dB (9kHz-30MHz)	
2	Dedicted Sources emission test	4.3dB (30MHz-1GHz)	
3 Ra	Radiated Spurious emission test	4.5dB (1GHz-18GHz)	
		3.4dB (18GHz-40GHz)	
1	Conduction omission	3.5dB (9kHz to 150kHz)	
4	Conduction emission	3.1dB (150kHz to 30MHz)	
5	Temperature test	0.64°C	
6	Humidity test	3.8%	
7	DC power voltages	0.026%	



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A 10 Mai		⊑quipm			and the second se
		RF test	system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	07-06-2022	07-05-2023
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023
Spectrum Analyzer	R&S	FSV40	101200	07-29-2022	07-28-2023
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI- 42	07-06-2022	07-05-2023
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0		

Ea	uipr	nent	List
- 4	laibi	IICIIL	LISU

	Conducted disturbance Test								
Equipment	Equipment Manufacturer Model No.		Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Receiver	R&S	ESCI	100435	05-04-2022	05-05-2023				
Temperature/ Humidity Indicator	Defu	TH128	/	$\odot$	(6				
LISN	R&S	ENV216	100098	03-01-2022	02-28-2023				
Barometer	changchun	DYM3	1188						

	3M Semi-an	echoic Chamber (2)	Radiated distur	rbance Test	1
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	10/14/2021 09/28/2022	10/13/2022 09/27/2023
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2023
Multi device Controller	maturo	NCD/070/10711112		(2	
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/17/2021	04/16/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2022	06/19/2023







		3M full-anechoi	c Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023	
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023	
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023	
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023	
Fully Anechoic Chamber	трк	FAC-3	(4)	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001			
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	~~~		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	(J)-	-6	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001		-	
Cable line	Times	EMC104-NMNM-1000	SN160710		-	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	6	9 -	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001			
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		- / ?	
Cable line	Times	HF160-KMKM-3.00M	393493-0001	6)		



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# CTI 华测检测 Report No.: EED32081494002

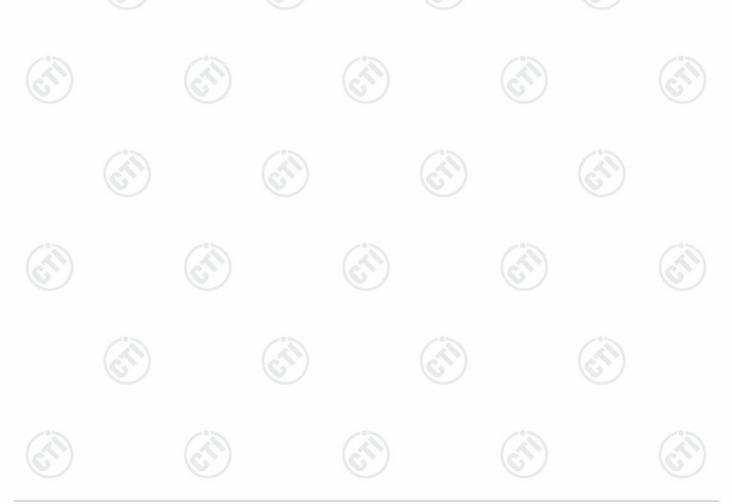


# 5 Test results and Measurement Data

#### 5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement:	
responsible party shall be antenna that uses a unique	
antennas with directional g section, if transmitting ante power from the intentional	er limit specified in paragraph (b) of this section is based on the use of ains that do not exceed 6 dBi. Except as shown in paragraph (c) of this mas of directional gain greater than 6 dBi are used, the conducted output radiator shall be reduced below the stated values in paragraphs (b)(1), ction, as appropriate, by the amount in dB that the directional gain of the
EUT Antenna:	Please see Internal photos

The antenna is internal antenna. The best case gain of the antenna is -0.24dBi.









#### 5.2 AC Power Line Conducted Emissions

5.2	AC Power Line Cor	nducted Emissions	(i)	(i)	
	Test Requirement:	07	$(\mathcal{O})$		
	Test Method:	ANSI C63.10: 2013		$\sim$	
	Test Frequency Range:	150kHz to 30MHz			
240	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sw	veep time=auto	-	2
6	Limit:	_	Limit (	dBuV)	
2		Frequency range (MHz)	Quasi-peak	Average	1
		0.15-0.5	66 to 56*	56 to 46*	İ
		0.5-5	56	46	
		5-30	60	50	
		* Decreases with the logarithm			
	Test Setup:				
		Shielding Room			H.
				Test Receiver	ΗĒ
2					L P
		EUT	AE		н.
		3			н.
			80cm		н.
		AC Mains			н.
				C Mains	
			Ground Reference Plane		
			andra menetak werene ezer katalaria o		
4	Test Procedure:	1) The mains terminal disturb	ance voltage test wa	s conducted in a shie	elde
2		room.			
		2) The EUT was connected to	AC power source thr	ough a LISN 1 (Line	
		Impedance Stabilization Ne	<i>,</i> .		nea
		impedance. The power cab			
		connected to a second LISN			
		reference plane in the same			
		measured. A multiple socke	•		
		power cables to a single LIS exceeded.	Six provided the fating	g of the LISIN was not	
2		<ol> <li>3) The tabletop EUT was place</li> </ol>	ed upon a non-metall	ic table 0.8m above th	
6		ground reference plane. An	· · · · · · · · · · · · · · · · · · ·		
		placed on the horizontal gro	-	-	wat
		<ol> <li>The test was performed with</li> </ol>			ar
		of the EUT shall be 0.4 m fr	-		
		vertical ground reference pl	U U		
		reference plane. The LISN			he
		unit under test and bonded			
		mounted on top of the grou	-		
- 01		between the closest points	of the LISN 1 and the	EUT. All other units o	of
5		the EUT and associated eq	· · · · · · · · · · · · · · · · · · ·		2.
2		5) In order to find the maximur	n emission, the relati	ve positions of	1







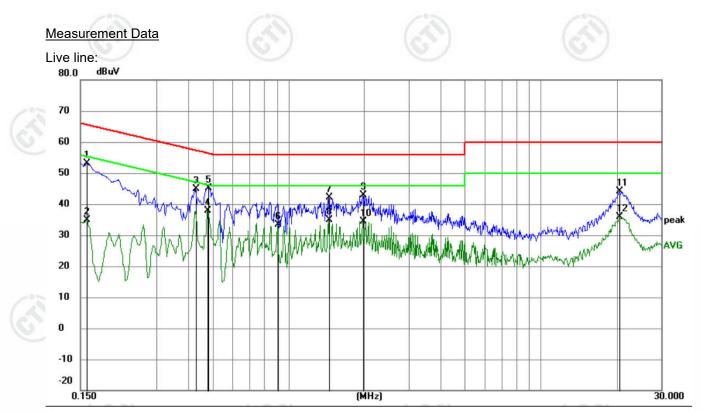
	Only the worst case is recorded in the report.	
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK mo lowest channel is the worst case.	dulation at the
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and data type at the lowest, middle, high channel.	all kind of
	equipment and all of the interface cables must be changed a ANSI C63.10: 2013 on conducted measurement.	according to



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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1590	43.24	9.87	53.11	65.52	-12.41	QP	
2	0.1590	24.95	9.87	34.82	55.52	-20.70	AVG	
3	0.4290	34.99	9.96	44.95	57.27	-12.32	QP	
4 *	0.4785	28.02	9.95	37.97	46.37	-8.40	AVG	
5	0.4830	35.21	9.95	45.16	56.29	-11.13	QP	
6	0.9060	23.60	9.85	33.45	46.00	-12.55	AVG	
7	1.4415	32.37	9.81	42.18	56.00	-13.82	QP	
8	1.4415	25.04	9.81	34.85	46.00	-11.15	AVG	
9	1.9770	33.06	9.79	42.85	56.00	-13.15	QP	
10	1.9770	24.65	9.79	34.44	46.00	-11.56	AVG	
11	20.5035	34.27	9.97	44.24	60.00	-15.76	QP	
12	20.5035	25.89	9.97	35.86	50.00	-14.14	AVG	

#### Remark:

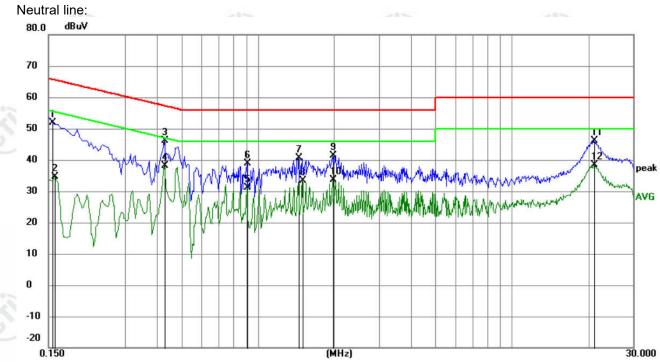
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.







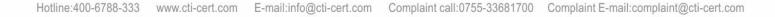




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1556	42.06	9.87	51.93	65.70	-13.77	QP	
2		0.1590	24.84	9.87	34.71	55.52	-20.81	AVG	
3		0.4290	36.16	9.96	46.12	57.27	-11.15	QP	
4	*	0.4290	28.19	9.96	38.15	47.27	-9.12	AVG	
5		0.9060	21.36	9.85	31.21	46.00	-14.79	AVG	
6		0.9105	28.96	9.85	38.81	56.00	-17.19	QP	
7		1.4415	30.81	9.81	40.62	56.00	-15.38	QP	
8		1.4955	23.49	9.81	33.30	46.00	-12.70	AVG	
9		1.9770	31.65	9.79	41.44	56.00	-14.56	QP	
10		1.9770	23.76	9.79	33.55	46.00	-12.45	AVG	
11		21.0930	36.03	9.98	46.01	60.00	-13.99	QP	
12		21.0930	28.47	9.98	38.45	50.00	-11.55	AVG	

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



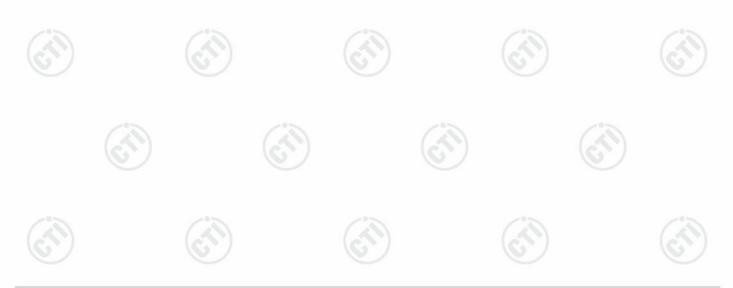






### 5.3 Maximum Conducted Output Power

	Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
	Test Method:	ANSI C63.10:2013
<u>.</u>	Test Setup:	Control Control Control Power Supply TemPERATURE CABNET Table RF test System Instrument
	Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold
	Limit:	Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. 21dBm
-	Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
	Test Results:	Refer to Appendix BT Classic
	C)	









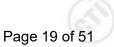
## 5.4 20dB Emission Bandwidth

	( 4)					
	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
	Test Method:	ANSI C63.10:2013				
	Test Setup:	Control Control Control Control Power Poor Poor Poor Poor Poor Poor Poor Po				
(N)	Test Procedure:	Remark: Offset=Cable loss+ attenuation factor.         1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.         2. Set to the maximum power setting and enable the EUT transmit continuously.         3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.         Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold.				
	Limit:	4. Measure and record the results in the test report. NA				
	Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type				
<u>છે</u>	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSk modulation type, 2-DH5 of data type is the worst case of $\pi$ /4DQPSk modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
	Test Results:	Refer to Appendix BT Classic				
	C					



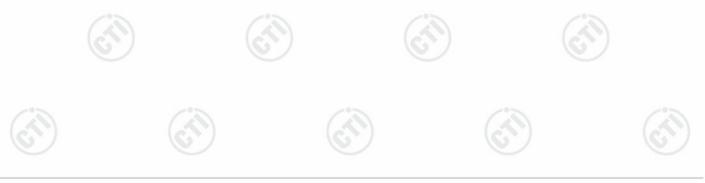






## 5.5 Carrier Frequency Separation

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
	Test Method:	ANSI C63.10:2013				
	Test Setup:	Control Computer Supply Fourer Supply Table RF test System Instrument				
		Remark: Offset=Cable loss+ attenuation factor.				
	Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto;</li> <li>Detector function = peak; Trace = max hold.</li> <li>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.</li> </ol>				
	Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.				
	Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type				
	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi$ /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation				
~		type.				







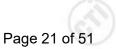
## 5.6 Number of Hopping Channel

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
	Test Method:	ANSI C63.10:2013						
3	Test Setup:	Control Control Control Poor Supply TEMPERATURE CABNET RF test System Instrument						
3	Test Procedure:	Remark: Offset=Cable loss+ attenuation factor.  1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for						
		<ul> <li>each measurement.</li> <li>2. Set to the maximum power setting and enable the EUT transm continuously.</li> <li>3. Enable the EUT hopping function.</li> <li>4. Use the following spectrum analyzer settings: Span = the frequenc band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto Detector function = peak; Trace = max hold.</li> </ul>						
3		<ul><li>5. The number of hopping frequency used is defined as the number of total channel.</li><li>6. Record the measurement data in report.</li></ul>						
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.						
	Test Mode:	Hopping transmitting with all kind of modulation						
	Toot modo.	riopping tranomitang war an and or modulation						



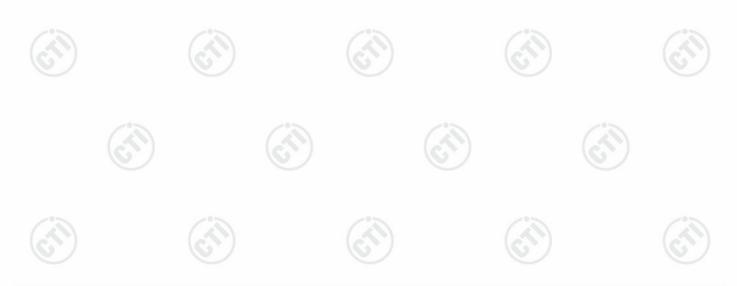






## 5.7 Time of Occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Congruer Decision Supply Temerature Cabnet Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Test Results:	Refer to Appendix BT Classic
G	

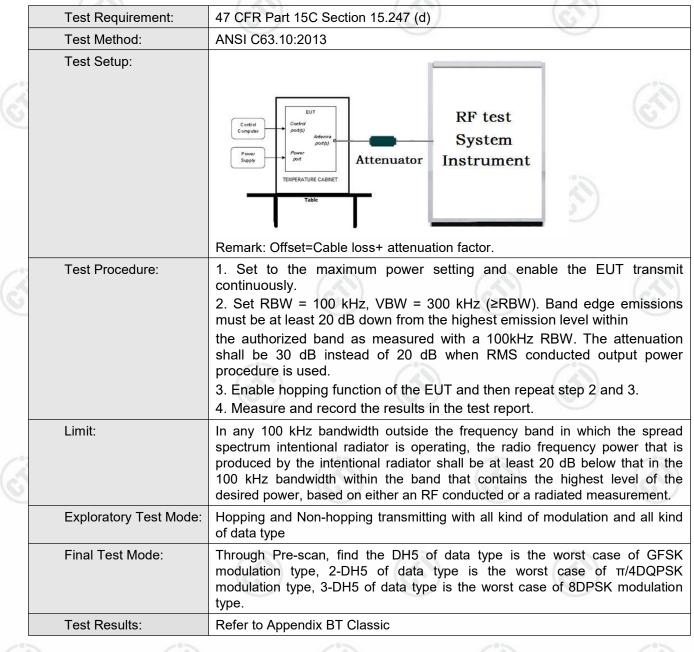








#### 5.8 Band edge Measurements











## 5.9 Conducted Spurious Emissions

oonaaotoa opanot	
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Power Supph Tell/PERATURE CABNET Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. Al harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSF modulation type, 2-DH5 of data type is the worst case of $\pi$ /4DQPSF modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
	-Jp
	Test Method: Test Setup: Test Setup: Test Procedure: Limit: Limit:







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#### 5.10 Pseudorandom Frequency Hopping Sequence

#### **Test Requirement:**

#### 47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

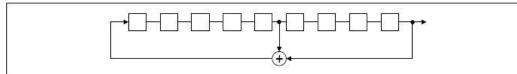
#### Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a ninestage shift register whose 5th and 9th stage

outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2<sup>9</sup> -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)

. .



Linear Feedback Shift Register for Generation of the PRBS sequence 

An example of P	seudorandom Fre	equency	Hopping Seq	uence as follow:			
20 62 46 77	7	64	8 73		16:75	1	
Each frequency	used equally on th	ne avera	age by each tr	ansmitter.			
bandwidths that		oing cha	annel bandwid	receivers are desigr dths of any Bluetoo als.			
Compliance for	section 15.247(g	3)					
•	· · · · · · · · · · · · · · · · · · ·			tooth system transn ata and the short bu		•	

Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom



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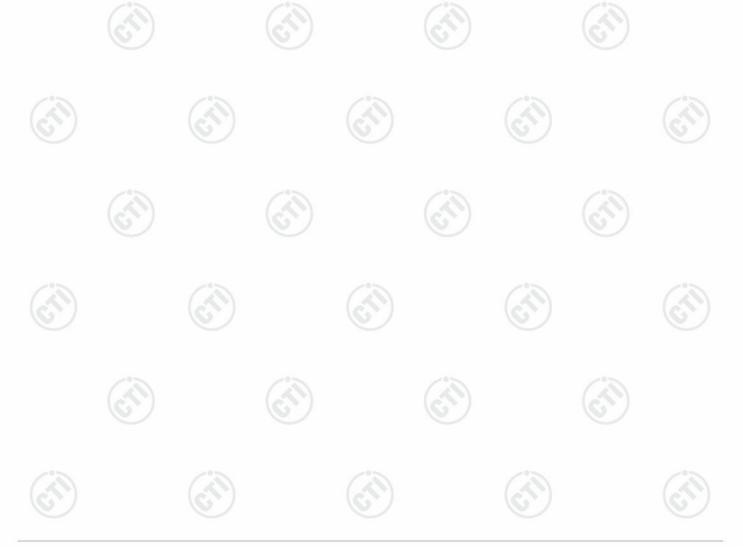
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#### hopping frequency system.

#### Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.









#### 5.11 Radiated Spurious Emission & Restricted bands

	Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15.	.205						
	Test Method:	ANSI C63.10: 2013	NSI C63.10: 2013								
	Test Site:	Measurement Distance	e: 3m	n (Semi-Anech	ioic Cham	ber)					
2	Receiver Setup:	Frequency		Detector	RBW	VBW	Remark				
		0.009MHz-0.090MH	z	Peak	10kHz	: 30kHz	Peak				
-		0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average				
		0.090MHz-0.110MH	z	Quasi-peak	10kHz	: 30kHz	Quasi-peak				
		0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak				
		0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average				
		0.490MHz -30MHz		Quasi-peak	10kHz	: 30kHz	Quasi-peak				
		30MHz-1GHz		Peak	100 kH	z 300kHz	Peak				
			Peak	1MHz	3MHz	Peak					
		Above 1GHz	Peak	1MHz	10kHz	Average					
-	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)				
		0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300				
		0.490MHz-1.705MHz	24	1000/F(kHz)	-	-/3	30				
		1.705MHz-30MHz		30	-	0	30				
		30MHz-88MHz		100	40.0	Quasi-peak	3				
		88MHz-216MHz		150	43.5	Quasi-peak	3				
2		216MHz-960MHz	2	200	46.0	Quasi-peak	3				
8		960MHz-1GHz	P)	500	54.0	Quasi-peak	3				
		Above 1GHz	/	500	54.0	Average	3				
		Note: 15.35(b), Unless emissions is 20dE applicable to the peak emission lev	3 ab equi	ove the maxin pment under t	num permi est. This p	tted average	emission limit				

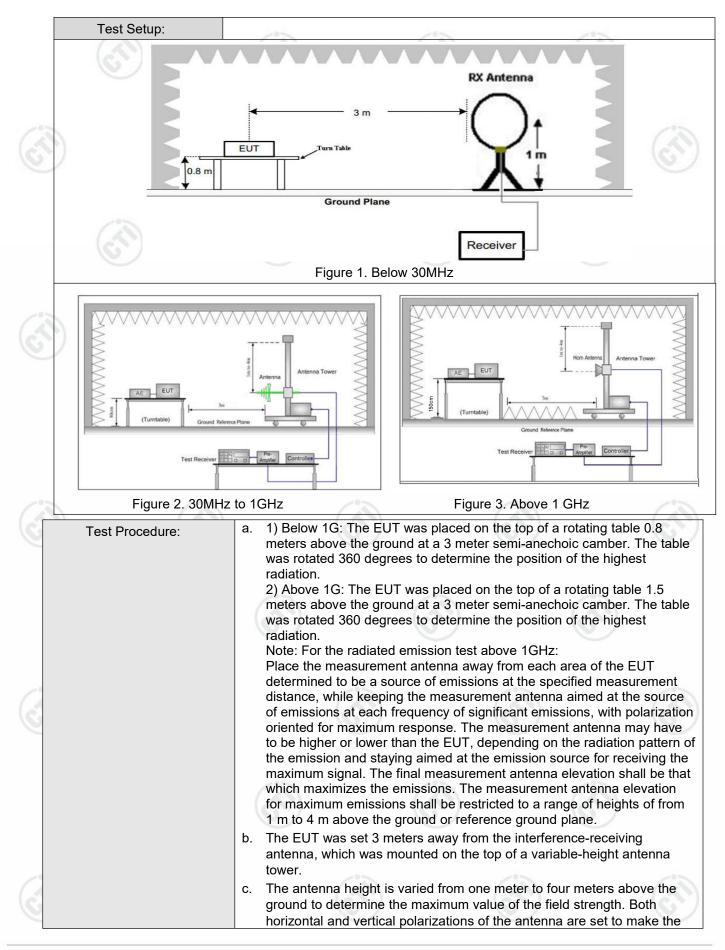








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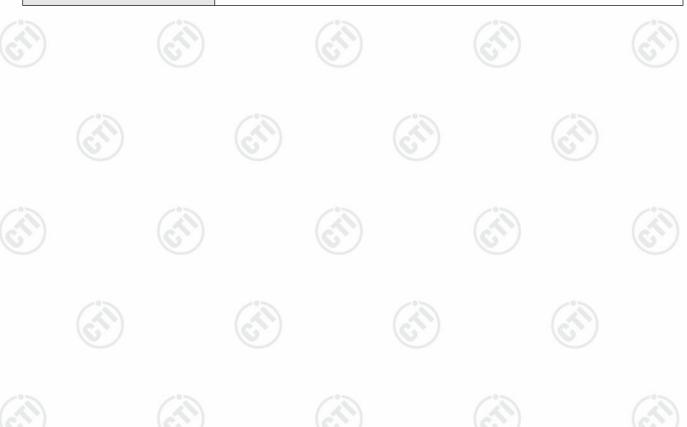


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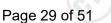


	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	<ul> <li>g. Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz)</li> </ul>
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.
	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre- scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass





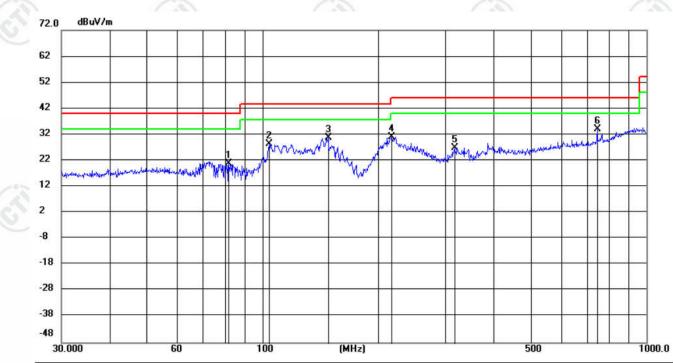




#### **Radiated Spurious Emission below 1GHz:**

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.

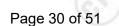


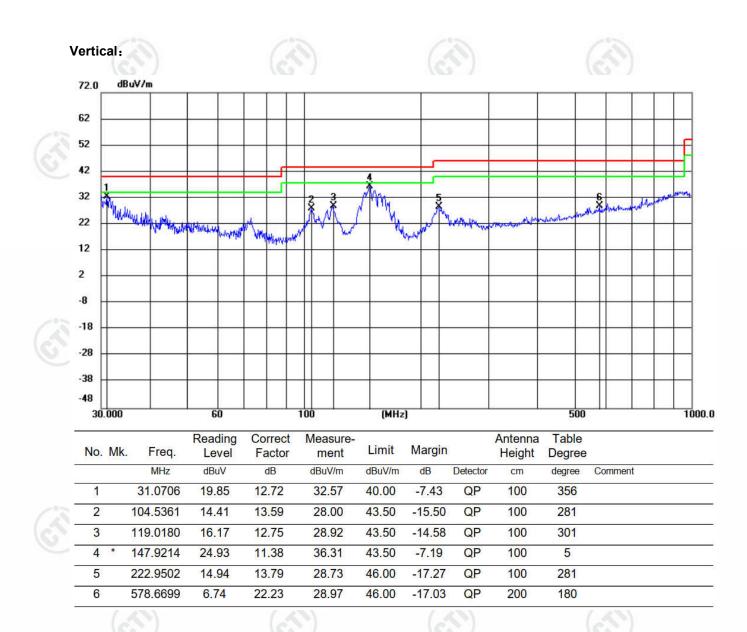


No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	81.7832	10.08	10.82	20.90	40.00	-19.10	QP	200	350	
2	104.1701	14.69	13.60	28.29	43.50	-15.21	QP	200	4	
3	148.4410	19.35	11.43	30.78	43.50	-12.72	QP	200	356	
4	217.5443	17.53	13.58	31.11	46.00	-14.89	QP	200	356	
5	316.5889	9.91	17.09	27.00	46.00	-19.00	QP	100	119	
6 *	744.8660	10.00	24.10	34.10	46.00	-11.90	QP	100	250	



























#### Radiated Spurious Emission above 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case of 1M was recorded in the report.

	Mode	:		GFSK Transmi	tting		Channel:		2402 MHz	2
200	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	1193.8194	0.80	40.87	41.67	74.00	32.33	Pass	н	PK
	2	1702.4702	2.95	39.75	42.70	74.00	31.30	Pass	Н	PK
	3	4233.0822	-17.76	54.76	37.00	74.00	37.00	Pass	Н	PK
	4	5765.1843	-13.69	54.60	40.91	74.00	33.09	Pass	Н	PK
	5	8589.3726	-10.37	<b>51.77</b>	41.40	74.00	32.60	Pass	Н	PK
	6	10806.5204	-6.24	50.75	44.51	74.00	29.49	Pass	Н	PK
	7	1257.6258	0.95	41.44	42.39	74.00	31.61	Pass	V	PK
	8	1665.4665	2.72	40.01	42.73	74.00	31.27	Pass	V	PK
k	9	4259.0839	-17.55	5 58.23	40.68	74.00	33.32	Pass	V	PK
3	10	5747.1831	-13.75	5 53.70	39.95	74.00	34.05	Pass	V	PK
	11	8417.3612	-10.92	2 51.97	41.05	74.00	32.95	Pass	V	PK
	12	11378.5586	-6.24	52.61	46.37	74.00	27.63	Pass	V	PK

	and the base		and Difference							
Mode	<b>:</b> :		GFSK Transmit	tting		Channel:		2441 MHz	Ζ	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1242.4242	0.91	41.08	41.99	74.00	32.01	Pass	Н	PK	
2	1982.4983	4.46	38.76	43.22	74.00	30.78	Pass	Н	PK	
3	4239.0826	-17.71	54.84	37.13	74.00	36.87	Pass	Н	PK	
4	6471.2314	-12.74	52.18	39.44	74.00	34.56	Pass	Н	PK	
5	9289.4193	-7.94	51.21	43.27	74.00	30.73	Pass	Н	PK	
6	13681.7121	-1.74	49.11	47.37	74.00	26.63	Pass	Н	PK	
7	1081.2081	0.87	41.74	42.61	74.00	31.39	Pass	V	PK	
8	1617.2617	2.40	39.99	42.39	74.00	31.61	Pass	V	PK	
9	4255.0837	-17.58	57.20	39.62	74.00	34.38	Pass	V	PK	
10	5981.1987	-13.08	58.49	45.41	74.00	28.59	Pass	V	PK	
11	9809.4540	-7.35	51.14	43.79	74.00	30.21	Pass	V	PK	
12	12950.6634	-4.23	50.48	46.25	74.00	27.75	Pass	V	PK	
			/		/		1	•		











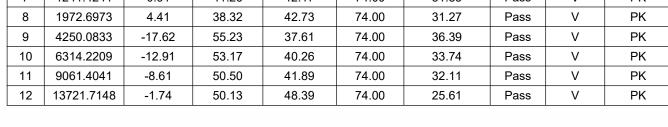
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Mo	de:		GFSK Transmi	tting		Channel:		2480 MHz	z	
NC	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1133.8134	0.83	41.54	42.37	74.00	31.63	Pass	н	PK	
2	1663.8664	2.71	39.47	42.18	74.00	31.82	Pass	Н	PK	
3	3878.0585	-19.13	57.21	38.08	74.00	35.92	Pass	Н	PK	
4	5592.1728	-14.29	52.82	38.53	74.00	35.47	Pass	Н	PK	
5	7264.2843	-11.74	52.56	40.82	74.00	33.18	Pass	Н	PK	
6	10235.4824	-6.89	50.21	43.32	74.00	30.68	Pass	н	PK	
7	1116.6117	0.84	41.28	42.12	74.00	31.88	Pass	V	PK	
8	2053.3053	4.73	39.51	44.24	74.00	29.76	Pass	V	PK	
9	4427.0951	-17.02	55.26	38.24	74.00	35.76	Pass	V	PK	
10	5980.1987	-13.09	54.35	41.26	74.00	32.74	Pass	V	PK	
11	9012.4008	-8.50	50.90	42.40	74.00	31.60	Pass	V	PK	
12	11798.5866	-6.11	51.61	45.50	74.00	28.50	Pass	V	PK	
377	-	16	1	16	)	63	1		G	
Mo	de:		π/4DQPSK Tra	Insmitting		Channel:		2402 MHz		
NC	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1249.0249	0.93	41.00	41.93	74.00	32.07	Pass	Н	PK	
2	2039.9040	4.68	38.76	43.44	74.00	30.56	Pass	Н	PK	
3	3806.0537	-19.23	56.40	37.17	74.00	36.83	Pass	Н	PK	
4	6370.2247	-12.88	52.80	39.92	74.00	34.08	Pass	Н	PK	
5	8929.3953	-8.99	51.85	42.86	74.00	31.14	Pass	Н	PK	
6	14455.7637	0.42	47.53	47.95	74.00	26.05	Pass	Н	PK	
7	1241.4241	0.91	41.26	42.17	74.00	31.83	Pass	V	PK	
8	1972.6973	4.41	38.32	42.73	74.00	31.27	Pass	V	PK	
0	1250 0822	17.62	55.23	37.61	74.00	36.30	Page	V	DK	









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	Mode	:		π/4	4DQPSK Tra	nsmitting		Channel:		2441 MHz	2
	NO	Freq. [MHz]	Factor [dB]		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1196.0196	0.80		41.51	42.31	74.00	31.69	Pass	н	PK
- 12	2	1648.6649	2.61		39.50	42.11	74.00	31.89	Pass	н	PK
1	3	4359.0906	-17.12		54.87	37.75	74.00	36.25	Pass	н	PK
2	4	6296.2197	-12.93		53.51	40.58	74.00	33.42	Pass	н	PK
	5	9194.4130	-7.93		51.28	43.35	74.00	30.65	Pass	н	PK
	6	13279.6853	-3.39		49.66	46.27	74.00	27.73	Pass	н	PK
	7	1203.8204	0.81		41.07	41.88	74.00	32.12	Pass	V	PK
	8	1738.0738	3.07		38.42	41.49	74.00	32.51	Pass	V	PK
	9	4209.0806	-17.95		55.16	37.21	74.00	36.79	Pass	V	PK
	10	6908.2606	-11.83		51.76	39.93	74.00	34.07	Pass	V	PK
	11	9233.4156	-7.90		51.48	43.58	74.00	30.42	Pass	V	PK
2	12	12002.6002	-5.27		53.16	47.89	74.00	26.11	Pass	V	PK
5	1		16.	1		67	)	(G.*	1		(6)
-	Mode	:			4DQPSK Tra	nsmitting		Channel:		2480 MHz	
	NO	Freq. [MHz]	Factor [dB]		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	1204.4204	0.81		40.41	41.22	74.00	32.78	Pass	н	PK
	2	1993.4994	4.52		38.64	43.16	74.00	30.84	Pass	н	PK
	3	3893.0595	-19.11		56.92	37.81	74.00	36.19	Pass	н	PK
	4	6012.2008	-12.98		52.76	39.78	74.00	34.22	Pass	н	PK
2	5	9175.4117	-8.08		51.03	42.95	74.00	31.05	Pass	н	PK
6	6	13712.7142	-1.75		49.07	47.32	74.00	26.68	Pass	н	PK
-	7	1326.0326	1.15		40.25	41.40	74.00	32.60	Pass	V	PK
Ī	8	1967.8968	4.38		38.06	42.44	74.00	31.56	Pass	V	PK
Ī	9	4225.0817	-17.82		54.33	36.51	74.00	37.49	Pass	V	PK
	10	5975.1983	-13.12		56.43	43.31	74.00	30.69	Pass	V	PK

11

12



-10.38

-5.89

51.96

51.20

8587.3725

11877.5918



74.00

74.00

41.58

45.31



Pass

Pass

32.42

28.69



ΡK

ΡK

V

V

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# CTI华测检测 Report No. : EED32O81494002





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Mode	:		8DPSK Transm	itting		Channel:		2402 MHz	2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1261.2261	0.96	40.84	41.80	74.00	32.20	Pass	н	PK	
2	1761.4761	3.15	38.21	41.36	74.00	32.64	Pass	Н	PK	
3	4452.0968	-17.00	54.13	37.13	74.00	36.87	Pass	Н	PK	
4	6786.2524	-12.42	52.60	40.18	74.00	33.82	Pass	Н	PK	
5	9227.4152	-7.90	50.36	42.46	74.00	31.54	Pass	Н	PK	
6	11951.5968	-5.53	50.73	45.20	74.00	28.80	Pass	Н	PK	
7	1313.4313	1.10	40.45	41.55	74.00	32.45	Pass	V	PK	
8	1966.6967	4.38	38.26	42.64	74.00	31.36	Pass	V	PK	
9	5225.1483	-14.57	52.58	38.01	74.00	35.99	Pass	V	PK	
10	7702.3135	-11.05	52.28	41.23	74.00	32.77	Pass	V	PK	
11	10321.4881	-6.42	50.31	43.89	74.00	30.11	Pass	V	PK	
12	13819.7213	-1.70	49.36	47.66	74.00	26.34	Pass	V	PK	
		6	1	67	1	(G)*	1		(G)	
Mode	:		8DPSK Transmitting			Channel:		2441 MHz		
		Factor								

Mode:			8DPSK Transm	nitting	Channel:		2441 MHz		
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1146.4146	0.83	41.21	42.04	74.00	31.96	Pass	Н	PK
2	1969.4970	4.39	38.80	43.19	74.00	30.81	Pass	Н	PK
3	3874.0583	-19.14	57.09	37.95	74.00	36.05	Pass	Н	PK
4	6321.2214	-12.91	52.57	39.66	74.00	34.34	Pass	Н	PK
5	10853.5236	-6.30	50.24	43.94	74.00	30.06	Pass	Н	PK
6	13795.7197	-1.64	49.10	47.46	74.00	26.54	Pass	Н	PK
7	1118.4118	0.84	41.87	42.71	74.00	31.29	Pass	V	PK
8	1943.6944	4.26	37.52	41.78	74.00	32.22	Pass	V	PK
9	4813.1209	-16.23	53.74	37.51	74.00	36.49	Pass	V	PK
10	7335.2890	-11.63	52.99	41.36	74.00	32.64	Pass	V	PK
11	10841.5228	-6.29	51.20	44.91	74.00	29.09	Pass	V	PK
12	14346.7565	0.34	47.45	47.79	74.00	26.21	Pass	V	PK









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# CTI 华测检测 Report No.: EED32081494002





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Mode: 8			8DPSK Transmitting			Channel:		2480 MHz	
NC	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1181.6182	0.81	40.88	41.69	74.00	32.31	Pass	Н	PK
2	1666.0666	2.72	39.17	41.89	74.00	32.11	Pass	Н	PK
3	4097.0731	-18.21	54.83	36.62	74.00	37.38	Pass	Н	PK
4	6390.2260	-12.87	52.53	39.66	74.00	34.34	Pass	Н	PK
5	9209.4140	-7.89	50.54	42.65	74.00	31.35	Pass	Н	PK
6	11968.5979	-5.43	51.01	45.58	74.00	28.42	Pass	Н	PK
7	1221.4221	0.86	41.09	41.95	74.00	32.05	Pass	V	PK
8	1772.4772	3.19	38.53	41.72	74.00	32.28	Pass	V	PK
9	4639.1093	-16.65	53.78	37.13	74.00	36.87	Pass	V	PK
10	5976.1984	-13.11	56.22	43.11	74.00	30.89	Pass	V	PK
11	10708.5139	-6.45	50.71	44.26	74.00	29.74	Pass	V	PK
12	14344.7563	0.30	46.72	47.02	74.00	26.98	Pass	V	PK
		3	)	6	)	6	1		67

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

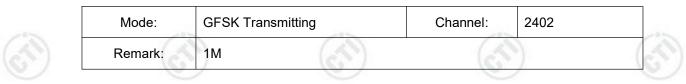




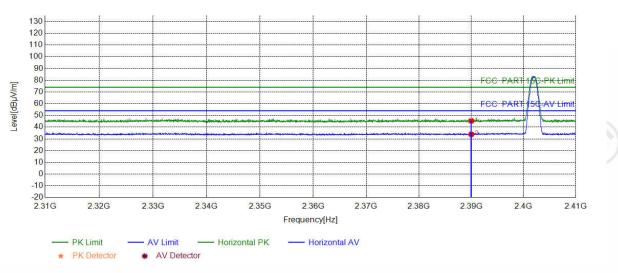


#### **Restricted bands:**

Test plot as follows:



**Test Graph** 



	Suspected List										
3	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	2390.0000	5.77	39.58	45.35	74.00	28.65	PASS	Horizontal	PK	
	2	2390.0000	5.77	28.11	33.88	54.00	20.12	PASS	Horizontal	AV	









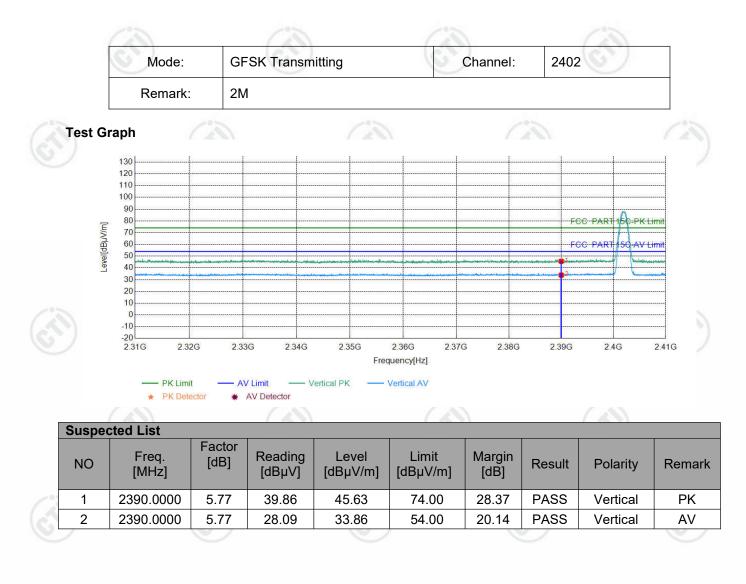




















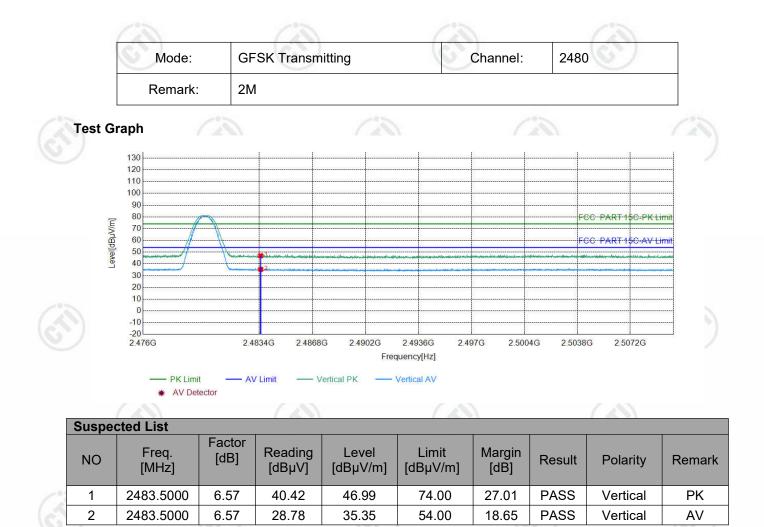


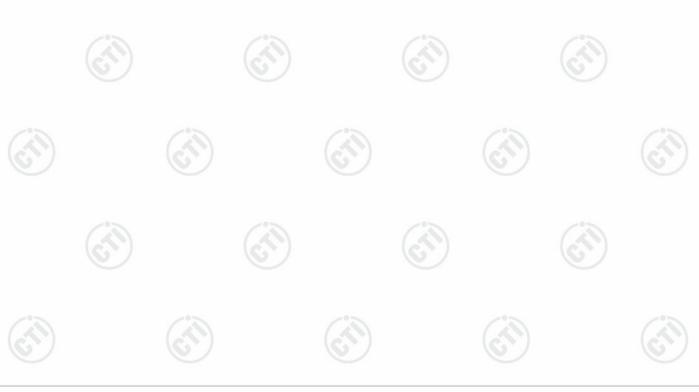
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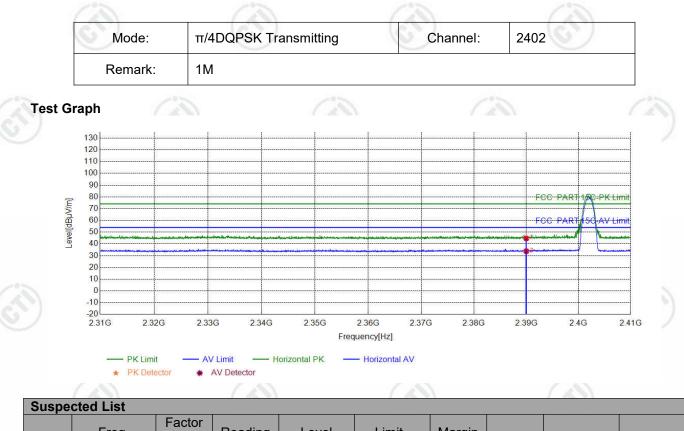




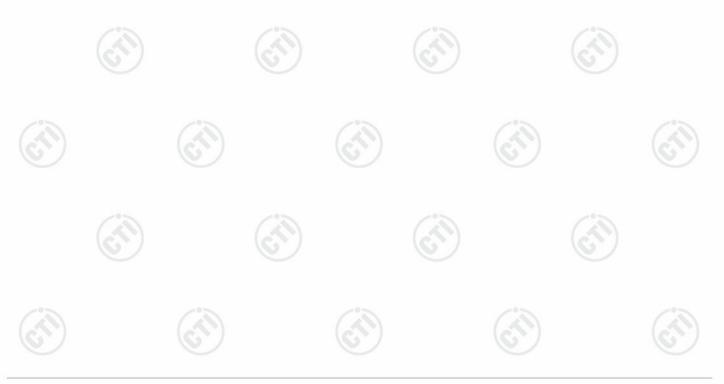






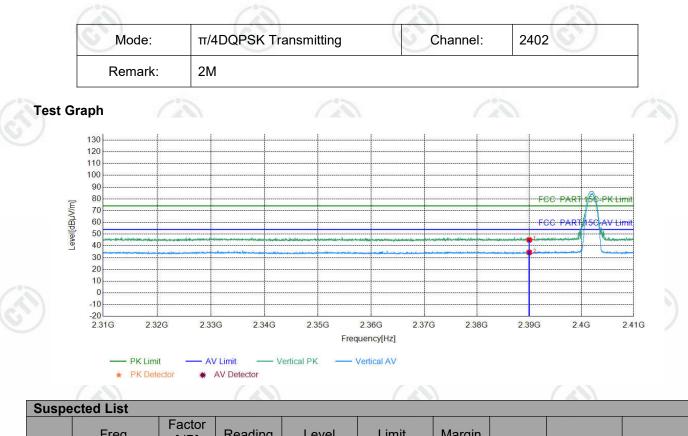


	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
13	1	2390.0000	5.77	38.89	44.66	74.00	29.34	PASS	Horizontal	PK
6	2	2390.0000	5.77	28.02	33.79	54.00	20.21	PASS	Horizontal	AV
	1					0		/ /		

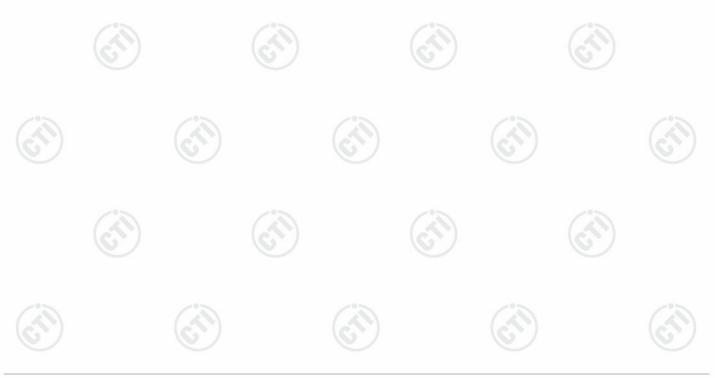






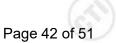


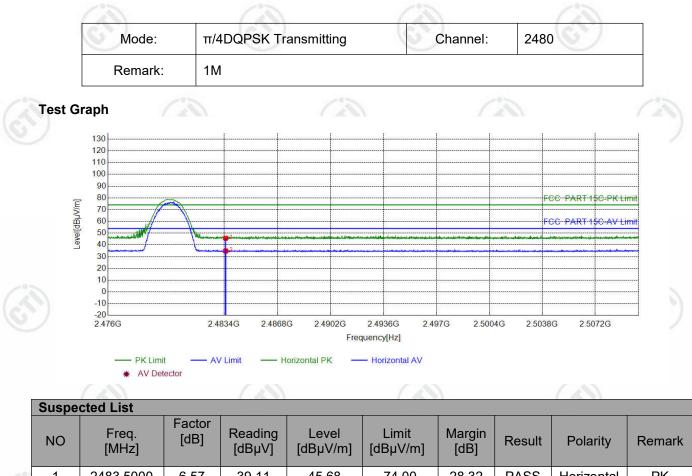
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
13	1	2390.0000	5.77	39.34	45.11	74.00	28.89	PASS	Vertical	PK
(2)	2	2390.0000	5.77	28.69	34.46	54.00	19.54	PASS	Vertical	AV
· · · · ·	1					0				

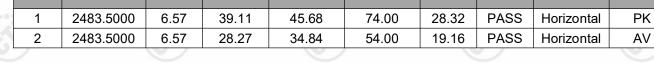










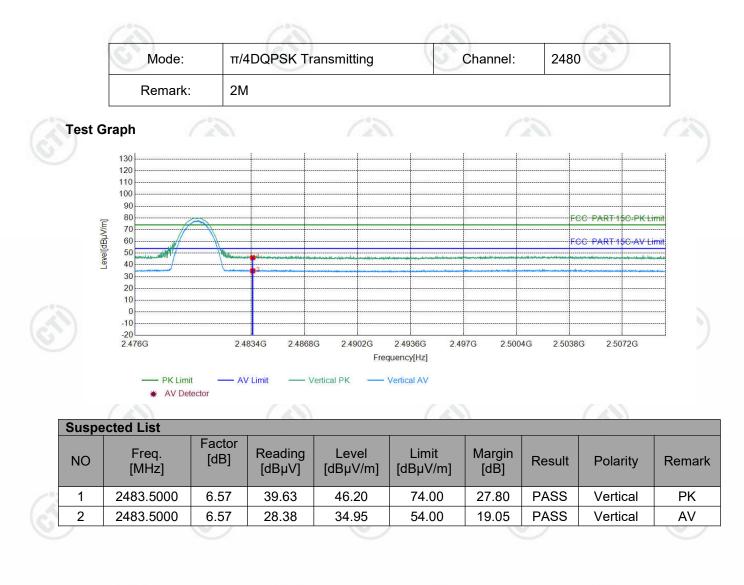










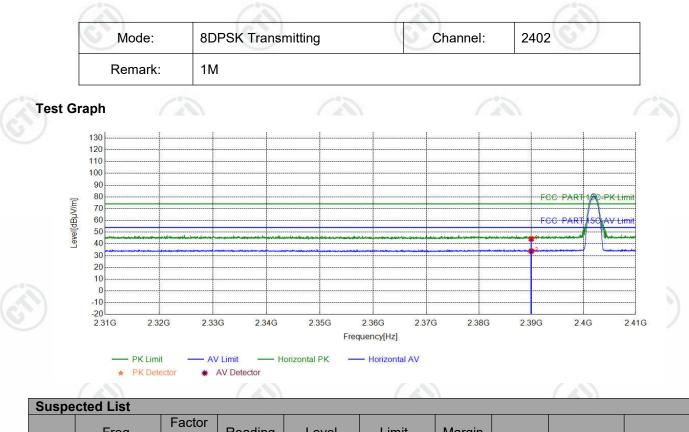












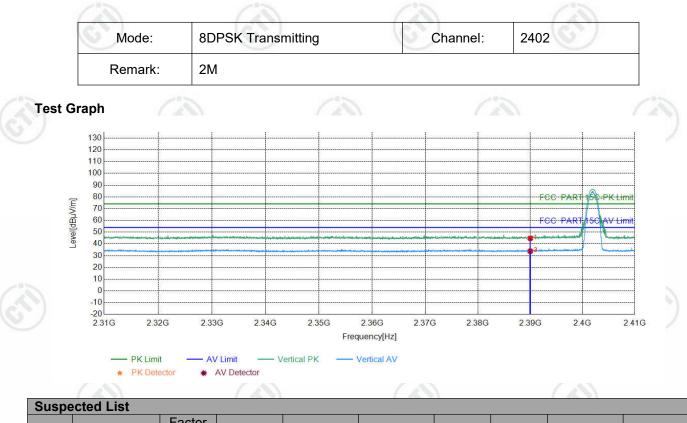
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
13	1	2390.0000	5.77	38.50	44.27	74.00	29.73	PASS	Horizontal	PK
(2)	2	2390.0000	5.77	28.05	33.82	54.00	20.18	PASS	Horizontal	AV
<b>N</b>	1	•		•		0	10			



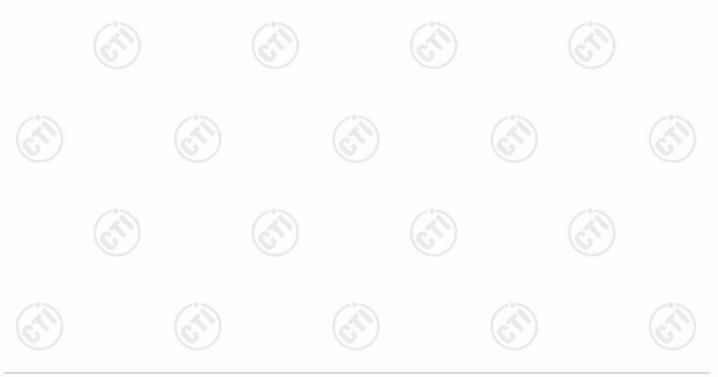








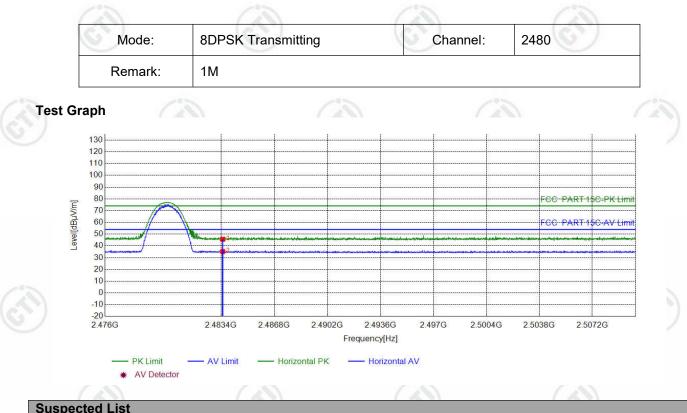
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	38.98	44.75	74.00	29.25	PASS	Vertical	PK
2	2390.0000	5.77	28.06	33.83	54.00	20.17	PASS	Vertical	AV
1					0		1		



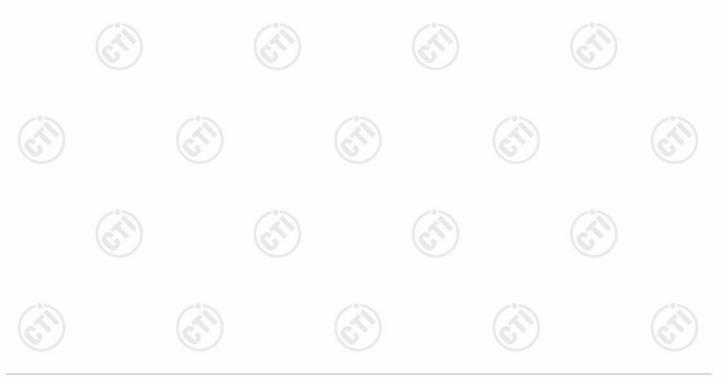








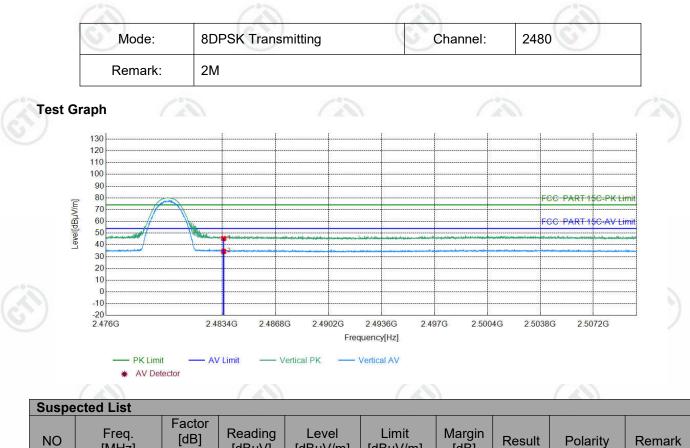
Juspe									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.14	45.71	74.00	28.29	PASS	Horizontal	PK
2	2483.5000	6.57	28.61	35.18	54.00	18.82	PASS	Horizontal	AV
1					0				











	NO	Freq. [MHz]	[dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
13	1	2483.5000	6.57	38.77	45.34	74.00	28.66	PASS	Vertical	PK
6	2	2483.5000	6.57	27.90	34.47	54.00	19.53	PASS	Vertical	AV
<b>W</b> .	1									

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor





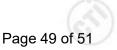
6 Appendix A

Refer to Appendix: BT Classic of EED32O81494002





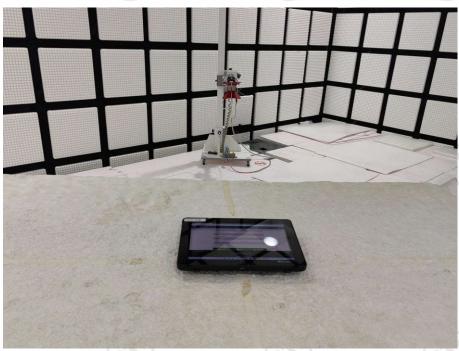




## **7 PHOTOGRAPHS OF TEST SETUP**



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)





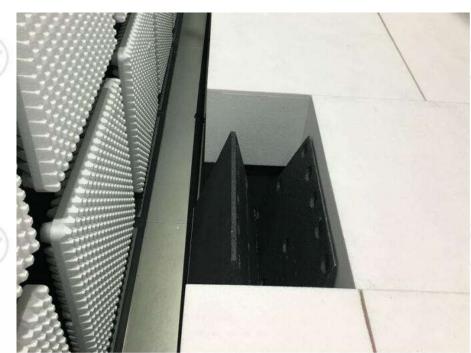












Radiated spurious emission Test Setup-3(Above 1GHz) There are absorbing materials under the ground.



## **Conducted Emissions Test Setup**















## 8 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O81494001 for EUT external and internal photos.

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