

Shenzhen CTL Testing Technology Co., Ltd. Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

	EST REPORT	
	PART 15 SUBPART C 15.2	247
Report Reference No.:	CTL2207053063-WF03	
Compiled by: (position+printed name+signature)	Happy Guo (File administrators)	Happy Guo
Tested by: (position+printed name+signature)	Gary Gao (Test Engineer)	Gary Gao
Approved by: (position+printed name+signature)	Ivan Xie (Manager)	tran Nie
Product Name:	Mondo Elite Classic Smart Interne	et Radio
Model/Type reference:	GDI-WHA8005	
List Model(s):	GDI-WHA8021	
Trade Mark:	gracedigital	
FCC ID:	2AAUI-MONDOCLASSIC	
Applicant's name:	Grace Digital Inc.	
Address of applicant:	10531 4S Commons Drive #166 S	Suite #430 San Diego, CA 92127
	Shenzhen CTL Testing Technology Co., Ltd.	
Address of Test Firm:	Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055	
Test specification: Standard	47 CFR FCC Part 15 Subpart C	15.247
TRF Originator:	Shenzhen CTL Testing Technology Co., Ltd.	
Master TRF:	Dated 2011-01	
Date of receipt of test item:	Jul. 25, 2022	
Date of sampling:	Jul. 25, 2022	
Date of Test Date:	Jul. 25, 2022 - Aug. 31, 2022	
Date of Issue:	Aug. 31, 2022	
Result:	esult Pass	
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TEST REPORT

Test Report No. :	CTL2207053063-WF03	Aug. 31, 2022 Date of issue
Equipment under Test	: Mondo Elite Classic Sn	nart Internet Radio
Sample No.	CTL220705306-3-S001 CTL220705306-3-S002	· · ·
Model /Type	: GDI-WHA8005	
Listed Models	: GDI-WHA8021	
Applicant	: Grace Digital Inc.	
Address	: 10531 4S Commons D Diego, CA 92127	rive #166 Suite #430 San
Manufacturer	: Ming Le Electronics F	Factory
Address	: NO. 33 Lane 7, XinZhu Town, HuaDu District, 0	angShe, LianTang, XinHua GuangZhou, CHINA.

Test result	Pass *

*In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.





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** Modified History **

Revisions	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	2022-08-31	CTL2207053063-WF03	Tracy Qi
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1. SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(1)(i)	20dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(a)(1)	Pseudorandom Frequency Hopping Sequence	PASS
FCC Part 15.247(a)(1)(iii)	Number of hopping frequency& Time of Occupancy	PASS
FCC Part 15.247(a)(1)	Frequency Separation	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 32/EN 55032 requirements.

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L7497

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9618B

CAB identifier: CN0041

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B on Jan. 22, 2019.

FCC-Registration No.: 399832

Designation No.: CN1216

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832, December 08, 2017.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Power Spectral Density	±2.20 dB	(1)
Radiated Emission 9KHz ~30MHz	±3.40dB	(1)

Hereafter the best measurement capability for CTL laboratory is reported:

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Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	Mondo Elite Classic Smart Internet Radio	
Model/Type reference:	GDI-WHA8005	
Power supply:	DC 18V from adapter	
Adapter information:	Model No: GM42-180220-1A Input: AC 100-240V 50/60Hz 1.5A Output: 18V2.0A	
Hardware version:	V1.0	
Software version:	V1.0	
Bluetooth :		
Supported type:	Bluetooth BR/EDR	
Modulation:	GFSK, π/4DQPSK, 8DPSK	
Operation frequency:	2402MHz~2480MHz	
Channel number:	79	
Channel separation:	1MHz	
Antenna type:	External Antenna	
Antenna1 gain:	5.29dBi	
Antenna2 gain:	5.29dBi	

Note: For more details, please refer to the user's manual of the EUT.

2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software(CMD Command) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing. There are 79 channels provided to the EUT and Channel 00/39/78 were selected to test.

Channel	Frequency (MHz)
00	2402
01	2403
38	2440
39	2441
40	2442
÷	
77	2479
78	2480

Preliminary tests were performed in each mode and packet length of BT, and found worst case as bellow, finally test were conducted at those mode and recorded in this report.

Test Items	Worst case
Conducted Emissions	DH5 Middle channel
Radiated Emissions and Band Edge	DH5
Maximum Conducted Output Power	DH5/2DH5/3DH5
20dB Bandwidth	DH5/2DH5/3DH5
Frequency Separation	DH5/2DH5/3DH5 Middle channel
Number of hopping frequency	DH5/2DH5/3DH5
Time of Occupancy (Dwell Time)	DH1/DH3/DH5 Middle channel 2DH1/2DH3/2DH5 Middle channel 3DH1/3DH3/3DH5 Middle channel
Out-of-band Emissions	DH5/2DH5/3DH5

Power setting during the test:

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Antenna ID	Test Software Version	Test Command					
Antenna ID	Frequency	2402MHz	2441MHz	2480MHz			
1	BR/EDR power level	2	2	2			
2	BR/EDR power level	2	2	2			

2.4. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ESH2-Z5	860014/010	2022/05/07	2023/05/06
Double cone logarithmic antenna	Schwarzbeck	VULB 9168	824	2020/04/07	2023/04/06
Horn Antenna	Ocean Microwave	OBH100400	26999002	2019/11/28	2022/11/27
EMI Test Receiver	R&S	ESCI	1166.5950.03	2022/05/07	2023/05/06
Spectrum Analyzer	Agilent	E4407B	MY41440676	2022/05/07	2023/05/06
Spectrum Analyzer	Agilent	N9020A	US46220290	2022/05/07	2023/05/06
Spectrum Analyzer	Keysight	N9020A	MY53420874	2022/05/07	2023/05/06
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2021/12/23	2024/12/22
Active Loop Antenna	Da Ze	ZN30900A	1	2021/05/13	2024/05/12
Amplifier	Agilent	8449B	3008A02306	2022/05/07	2023/05/06
Amplifier	Agilent	8447D	2944A10176	2022/05/06	2023/05/05
Amplifier	Brief&Smart	LNA-4018	2104197	2022/05/07	2023/05/06

Temperature/Humid ity Meter	Ji Yu MC5		01	/	2022/05/07	2023/05/06		
Power Sensor	Agilent	U202 ⁻	1XA	MY55130004	2022/05/07	2023/05/06		
Power Sensor	Agilent	U202 ⁻	1XA	MY55130006	2022/05/07	2023/05/06		
Power Sensor	Agilent	U202 ⁻	1XA	MY54510008	2022/05/07	2023/05/06		
Power Sensor	Agilent	U202	1XA	MY55060003	2022/05/07	2023/05/06		
Spectrum Analyzer	RS	FS	Р	1164.4391.38	2022/05/07	2023/05/06		
RF Cable	Megalon	RF-A	303	N/A	2022/05/07	2023/05/06		
RF Control Unit	Tonsecnd	JS080)6-2	20J8060323	2022/05/07	2023/05/06		
Test Software		10				-		
Name	of Software	1000		V	ersion	1 m		
JS	\$1120-3		2.6.880341					
EZ_EMC	(Below 1GHz)		V1.1.4.2					
EZ_EMC	((Above 1GHz)		V1.1.4.2					

The calibration interval was one year

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.



3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emissions Test

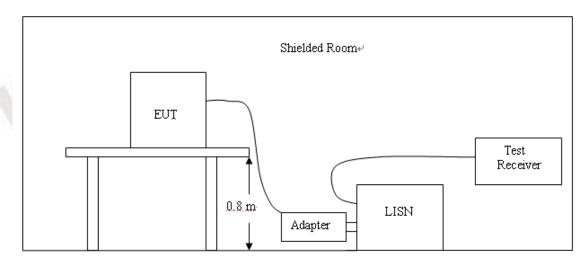
<u>LIMIT</u>

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207 and RSS Gen 8.8, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

Frequency range (MHz)	Limit (dBuV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



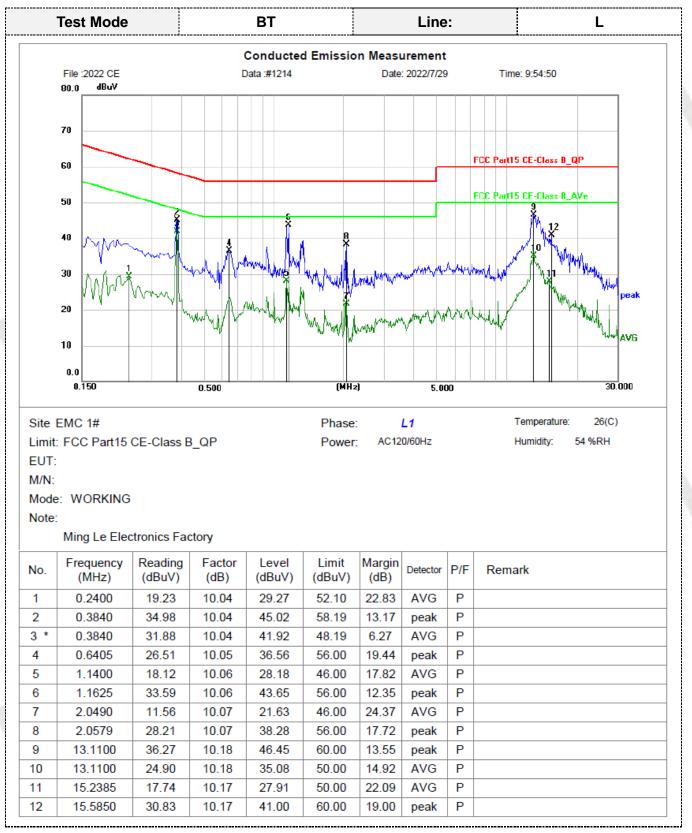
TEST PROCEDURE

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

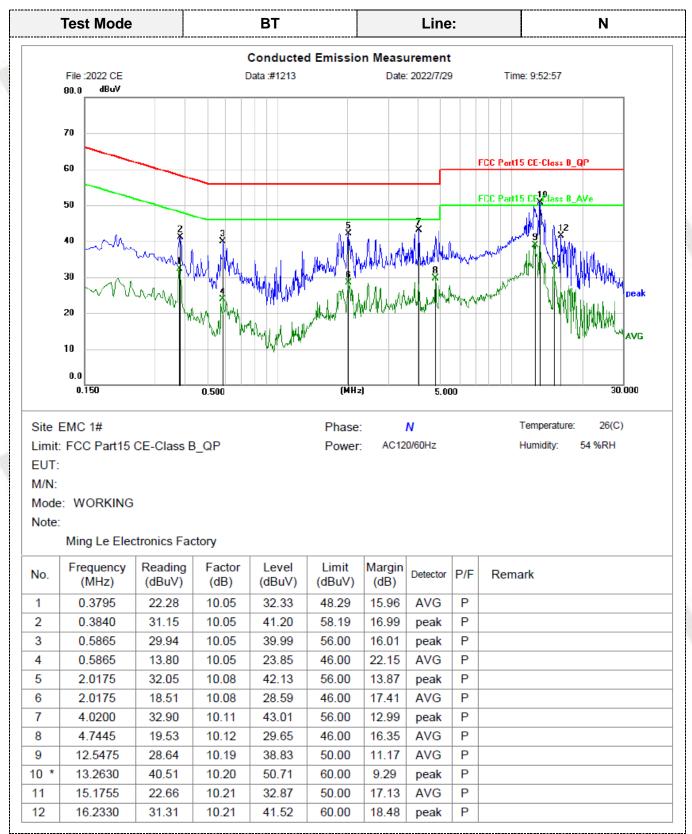
TEST RESULTS

Remark:

- 1. All modes of GFSK, Pi/4 DQPSK, and 8DPSK were test at Low, Middle, and High channel; only the worst result of antenna1 GFSK Middle Channel was reported as below:
- 2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



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Remark: Level(dBuV)=Reading(dBuV) + Factor(dB) Margin=Limit(dBuV)- Level(dBuV)

3.2. Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

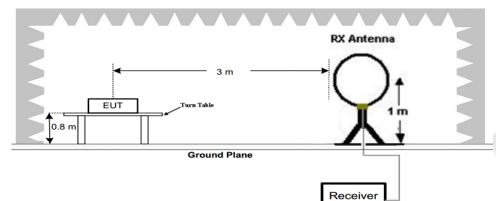
For intentional device, according to RSS-Gen section 8.9, the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-Gen section 8.10, must also comply with the radiated emission limits specified in RSS-Gen section 8.9

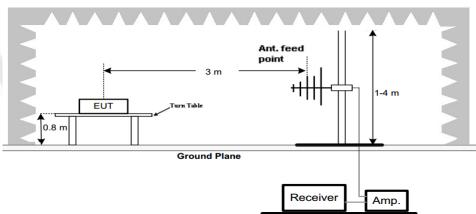
	Radiated emission limits								
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)						
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)						
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)						
1.705-30	3	20log(30)+ 40log(30/3)	30						
30-88	3	40.0	100						
88-216	3	43.5	150						
216-960	3	46.0	200						
Above 960	3	54.0	500						

TEST CONFIGURATION

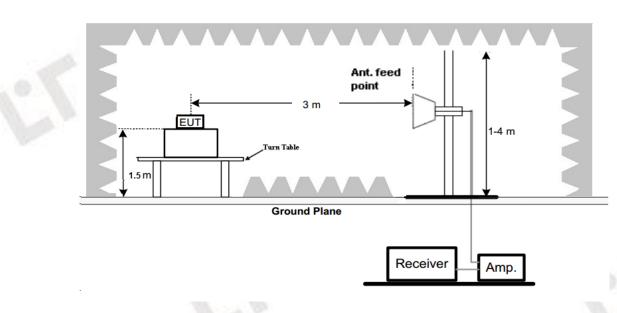
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz







(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° C to 360° C to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

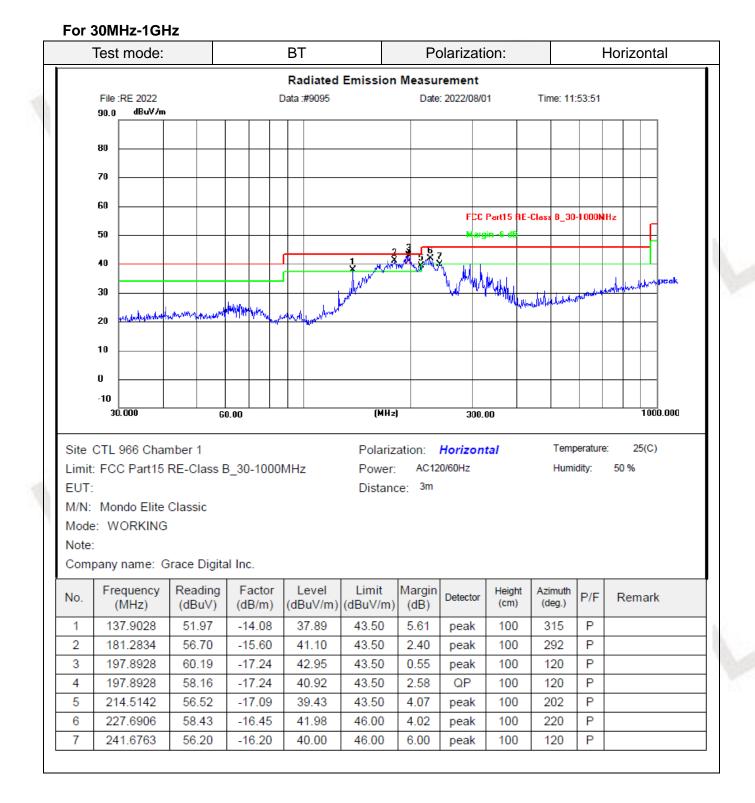
7. Setting test receiver/spectrum as following table states:

Test Frequency	Test Receiver/Spectrum Setting	Detector
range		
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep	QP
	time=Auto	QF
	Peak Value: RBW=1MHz/VBW=3MHz,	
1011- 40011-	Sweep time=Auto	Peak
1GHz-40GHz	Average Value: RBW=1MHz/VBW=10Hz,	
	Sweep time=Auto	

TEST RESULTS

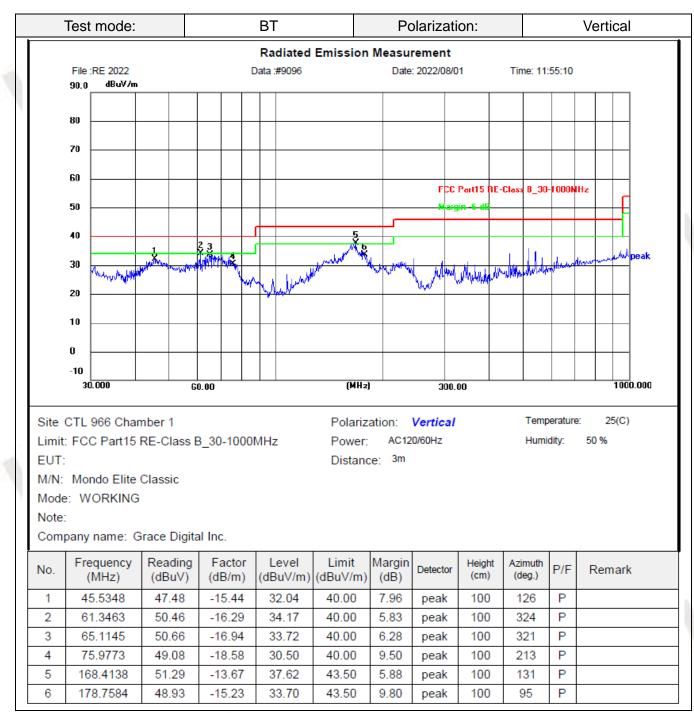
Remark:

- 1. All GFSK, $\pi/4$ DQPSK and 8DPSK mode were measured from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
- 2. For below 1GHz testing recorded worst at antenna1 GFSK DH5 low channel.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and The emission levels from 9kHz to 30MHz are attenuated 20dB below the limit and not recorded in report.









Remark: Level(dBuV/m)=Reading(dBuV)+Factor(dB/m) Margin=Limit(dBuV/m)-Level(dBuV/m)







For 1GHz to 25GHz

Note: GFSK, Pi/4 DQPSK and 8DPSK all have been tested, only worse case GFSK is reported.

Antenna 1 GFSK (above 1GHz)										
Freque	Frequency(MHz): 2402 Polarity: HORIZONTAL									
Frequency (MHz)			Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)	
4804.00	50.41	PK	74	23.59	63.40	33.49	6.91	53.39	-12.99	
4804.00		AV	54							
7206.00	46.35	PK	74	27.65	53.40	36.95	9.18	53.18	-7.05	
7206.00		AV	54							

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Le	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)
4804.00	57.06	PK	74	16.94	70.05	33.49	6.91	53.39	-12.99
4804.00	52.94	AV	54	1.06	65.93	33.49	6.91	53.39	-12.99
7206.00	49.03	PK	74	24.97	56.08	36.95	9.18	53.18	-7.05
7206.00		AV	54						

Freque	ncy(MHz	z):	2441		Polarity:		HORIZONTAL		
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)
4882.00	48.25	PK	74	25.75	61.03	33.60	6.95	53.33	-12.78
4882.00		AV	54						
7323.00	48.97	PK	74	25.03	55.47	37.46	9.23	53.19	-6.50
7323.00		AV	54						

Frequency(MHz):			2441		Polarity:		VERTICAL		
Frequency (MHz)		ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)
4882.00	58.65	PK	74	15.35	71.43	33.60	6.95	53.33	-12.78
4882.00	52.44	AV	54	1.56	65.22	33.60	6.95	53.33	-12.78
7323.00	47.76	PK	74	26.24	54.26	37.46	9.23	53.19	-6.50
7323.00		AV	54						

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Le	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)
4960.00	50.64	PK	74	23.36	63.06	33.84	7.00	53.26	-12.42
4960.00		AV	54		3				
7440.00	47.01	PK	74	26.99	53.29	37.64	9.28	53.20	-6.28
7440.00		AV	54						

Freque	ncy(MHz	:	24	80	Pola	arity:	VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correctior Factor (dB/m)	
4960.00	56.96 PK		74	17.04	69.38	33.84	7.00	53.26	-12.42	
4960.00	51.42 AV		54	2.58	63.84	33.84	7.00	53.26	-12.42	
7440.00			74	26.55	53.73	37.64	9.28	53.20	-6.28	
7440.00	7440.00 AV		54							

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)

2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

3. Margin value = Limit value- Emission level.

4. -- Mean the PK detector measured value is below average limit.

5. Other emission levels are attenuated 20dB below the limit and not recorded in report.

6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.



	Antenna 2 GFSK (above 1GHz)													
Freque	Frequency(MHz): 2402 Polarity: HORIZONTAL													
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)					
4804.00	48.19	PK	74	25.81	61.18	33.49	6.91	53.39	-12.99					
4804.00		AV	54											
7206.00	46.11	PK	74	27.89	53.16	36.95	9.18	53.18	-7.05					
7206.00		AV	54											

Freque	n <mark>cy(MH</mark> z):	24	02	Pola	arity:	VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit Margin (dBuV/m) (dB)		Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)	
4804.00	51.37	PK	74 22.63		64.36	33.49	6.91	53.39	-12.99	
4804.00		AV 54								
7206.00	47.18	7.18 PK 74		26.82	54.23	36.95	9.18	53.18	-7.05	
7206.00	7206.00 AV 5		54							

Freque	ncy(MHz	:):	24	41	Pola	arity:	HORIZONTAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit Margin (dBuV/m) (dB)		Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)	
4882.00	50.12	PK	74	23.88	62.90	33.60	6.95	53.33	-12.78	
4882.00		AV	54			10				
7323.00	47.41	PK	74	26.59	53.91	37.46	9.23	53.19	-6.50	
7323.00	00 AV		54							

Freque	ncy(MHz	:):	24	41	Pola	arity:	VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit Margin (dBuV/m) (dB)		Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)	
4882.00	51.36	PK	74	22.64	64.14	33.60	6.95	53.33	-12.78	
4882.00		AV	54							
7323.00	44.39	PK	74	29.61	50.89	37.46	9.23	53.19	-6.50	
7323.00	323.00 AV 54		54							

Freque	ncy(MHz	:):	24	80	Pola	arity:	HORIZONTAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit Margin (dBuV/m) (dB)		Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)	
4960.00	48.53	PK	74	25.47	60.95	33.84	7.00	53.26	-12.42	
4960.00		AV	54		-	-				
7440.00	45.68	PK	74	28.32	51.96	37.64	9.28	53.20	-6.28	
7440.00	440.00 AV 54		54		-					

Freque	ncy(MHz):	24	80	Pola	arity:	VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit Margin (dBuV/m) (dB)		Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplif ier (dB)	Correction Factor (dB/m)	
4960.00	51.16 PK		74	22.84	63.58	33.84	7.00	53.26	-12.42	
4960.00	AV		54							
7440.00	46.93 PK		74	27.07	53.21	37.64	9.28	53.20	-6.28	
7440.00		AV	54							

REMARKS:

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. Other emission levels are attenuated 20dB below the limit and not recorded in report.
- 6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated) Note: GFSK, Pi/4 DQPSK and 8DPSK all have been tested, only worse case GFSK was reported.

Radiated Emission Measurement File :RSE 2022 Data :#2082 Date: 2022/08/24 Time: 9:59:46 100 Image: 2022/08/24 Time: 9:59:46 100 F0C Part15 RE-Class 8 Above 10Hz FK F0L Part15 RE-Class 8 Above 10Hz FK Polarization: For Part15 RE-Class B Jointo: Temperature: 25(C) Limit: FCC Part15 RE-Class B Above 10Hz FK Polarization: Humidity: 50 % EUT: Distance: 3m M/N: Mondo Elite Classic M	Te	st frequenc	y:		2402		Po	olarizati	on:			Horizont	al
100 100 <th></th> <th></th> <th></th> <th>ſ</th> <th></th> <th>Emission</th> <th></th> <th></th> <th>4</th> <th>Time: 9:5</th> <th>59:46</th> <th></th> <th></th>				ſ		Emission			4	Time: 9:5	59:46		
90 90<													
80 FCC Part 5 FE-Closs 8 Nove 1GHz PK 70 9 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
Total Total <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Λ</td><td></td></th<>												Λ	
S0 FCC Part 15 RE-Class B, above 1GHz, MVe S0 FCC Part 15 RE-Class B, above 1GHz, MVe S0 FCC Part 15 RE-Class B, above 1GHz, MVe S0 FCC Part 15 RE-Class B, above 1GHz, MVe S0 FCC Part 15 RE-Class B, above 1GHz, MVe S0 FCC Part 15 RE-Class B, above 1GHz, MVe S0 FCC Part 15 RE-Class B, above 1GHz, PK Polarization: Horizontal Temperature: 25(C) Limit: FCC Part 15 RE-Class B, above 1GHz, PK Power: Humidity: 50 % EUT: S0 de: WORKING Distance: 3m MVN: Mondo Elite Classic Mode: Mode: Mode: Mode: Margin (dB/m) (dB								FCC Part1	5 RE-Clas	s B_Above	1GHz_	PK	
50 FCC Part15 RE-Class B_bove 1GHz_MVe 40												\uparrow	
40 30<		60						FCC Part1	5 RE-Clas	s B_Above	1GHz_	AVe	
30 30<		50 ana characta	***************************************	ternet terrester		********		www.waanaanaanaanaanaanaanaanaanaanaanaanaan	X		فاليم بعراريس ما		peak
20 2310.000 2320.00 2330.00 2340.00 2350.00 (MHz) 2370.00 2380.00 2390.00 2400.00 2410. Site CTL 966 Chamber 1 Polarization: Horizontal Temperature: 25(C) Limit: FCC Part15 RE-Class B_Above 1GHz_PK Power: Humidity: 50 % EUT: Distance: 3m M/N: Mondo Elite Classic Mode: WORKING Note: DH5 2402 ANT1 Company name: Grace Digital Inc. Limit (dBuV/m)		40											
10.0 2310.000 2320.00 2330.00 2340.00 2350.00 (MHz) 2370.00 2380.00 2390.00 2400.00 2410.00 Site CTL 966 Chamber 1 Polarization: Horizontal Temperature: 25(C) Limit: FCC Part15 RE-Class B_Above 1GHz_PK Power: Humidity: 50 % EUT: Distance: 3m M/N: Mondo Elite Classic Mode: WORKING Note: DH5 2402 ANT1 Company name: Grace Digital Inc. No. Frequency (dBuV) (dBuV) (dBuV) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) Detector Height Azimuth (deg.) P/F Remark 1 2385.309 55.17 -4.70 50.47 74.00 2385.3 percent of the state of the sta		30											
2310.000 2320.00 2330.00 2340.00 2350.00 (MHz) 2370.00 2380.00 2390.00 2400.00 2410. Site CTL 966 Chamber 1 Polarization: Horizontal Temperature: 25(C) Limit: FCC Part15 RE-Class B_Above 1GHz_PK Power: Humidity: 50 % EUT: Distance: 3m M/N: Mondo Elite Classic Distance: 3m Mode: WORKING VORKING VORKING Note: DH5 2402 ANT1 Company name: Grace Digital Inc. No. Frequency (MHz) Reading (dBuV) Level (dBuV/m) (dBuV/m) (dBuV/m) Detector Height (deg.) P/F Remark 1 2385.309 55.17 -4.70 50.47 74.00 23.53 peak P													
Limit: FCC Part15 RE-Class B_Above 1GHz_PK Power: Distance: 3m Humidity: 50 % EUT: Distance: 3m Distance: 3m M/N: Mondo Elite Classic Mode: WORKING VORKING VORKING Note: DH5 2402 ANT1 Company name: Grace Digital Inc. No. Frequency (MHz) Reading (dBuV) Level (dBuV/m) (dBuV/m) Margin (dB) Detector (deg.) Height (deg.) P/F Remark 1 2385.309 55.17 -4.70 50.47 74.00 23.53 peak P		2310.000 23	20.00 233	0.00 234	0.00 2350	.00 (MHz) 237	0.00 23	380.00	2390.00	240	0.00 241	0.00
Note: DH5 2402 ANT1Company name: Grace Digital Inc.No.Frequency (MHz)Reading (dBuV)Factor (dBm)Level (dBuV/m)Limit (dBuV/m)Margin (dB)DetectorHeight (cm)Azimuth (deg.)P/FRemark12385.30955.17-4.7050.4774.0023.53peak<	Limit: EUT: M/N:	FCC Part15 Mondo Elite	RE-Class E Classic	3_Above 1	GHz_PK	Power	:	Horizont	al				
No.Frequency (MHz)Reading (dBuV)Factor (dB/m)Level (dBuV/m)Limit (dBuV/m)Margin (dB)DetectorHeight (cm)Azimuth (deg.)P/FRemark12385.30955.17-4.7050.4774.0023.53peakPP													
NO. (MHz) (dBuV) (dB/m) (dB/m) (dBuV/m) (dBuV/m) (dB) Detector (cm) (deg.) F/F Remark 1 2385.309 55.17 -4.70 50.47 74.00 23.53 peak P	Com	pany name: G	Frace Digita	al Inc.									
	No.							Detector			P/F	Remark	
2 2390.000 54.13 -4.69 49.44 74.00 24.56 peak P					+								
	2	2390.000	54.13	-4.69	49.44	74.00	24.56	peak			Р		



Report No.: CTL2207053063-WF03

	Test frequency: 2402 Polarization: Vertical Radiated Emission Measurement											Vertica		
			-	-	Radiated	Emission	Measu	rement	-					1
		File :RSE 2022 10.0 dBuV/m		[Data :#2083		Date	: 2022/08/2	4	Time: 10	:01:37			
	٦	00										0		
	:	00										Д		
	1	30							_			Ц		
		70						FCC Part	15 RE-Class	s B_Above	1 GHz_	PK		
		50						FCC Part	5 RE-Clas	4 <mark>8_Above</mark>	1GHz	AVe		
	ļ	50 al Alexandre and			uuunik-kahalulukka		adrimente de contectes	naan adar aha Madaa aha		at the second	الأسفيين	- Wilmon	peak	
		10												
	;	30												
	:	20												
	1	0.0												
		2310.000 23	20.00 233	0.00 2340	0.00 2350).00 (MHz) 237	70.00 2	380.00	2390.00	240	0.00 241	0.00	
	Site C	TL 966 Chan	nber 1			Polariz	ation:	Vertical		Temp	erature	e: 25(C)	1	
		FCC Part15 I	RE-Class E	3_Above 1	GHz_PK	Power:				Humi	dity:	50 %		
i.	EUT:	Mondo Elite	Classic			Distan	ce: 3m							
		WORKING	CIASSIC											
1		DH5 2402 A	NT1											
	Comp	any name: G	race Digita	al Inc.										
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	¢	
	1	2387.230	56.34	-4.70	51.64	74.00	22.36	peak	150	360	Ρ			
	2	2390.000	54.41	-4.69	49.72	74.00	24.28	peak	150	360	Ρ			



Te	st frequenc	cy:		2480		Po	olarizati	on:			Horizont	al
				Radiated	Emission	Measu	rement					
	File :RSE 2022 110.0 dBuV/n			Data :#2084		Date	2022/08/2	4	Time: 10:	04:03		
	100											
	90											
	80						ECC Parts	15 RE-Class	P. Marine	164-		
	70						ruuran		S D_ADOVE	Turiz_		
	60						EFF Part	15 RE-Class	R Show	1645	A)/ a	
	50	an parameter and	1. 2	iacali nic shyrmapany a	Contraction of the	and the second second			mun mu		******	peak
	40											
	30											
	20											
	10.0 2460.000 2	170.00 240	0.00 2490	0.00 2500	.00 (MHz	252	0.00 2	530.00	2540.00	200	0.00 256	0.00
Limit EUT: M/N:	CTL 966 Cha : FCC Part15 Mondo Elite : WORKING	RE-Class E Classic	3_Above 1	GHz_PK	Polariz Power: Distano		Horizont	tal	Temp Humi	erature dity:	e: 25(C) 50 %	
	: DH5 2480											
Com	pany name:	Grace Digita	al Inc.									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	
1	2483.500	53.51	-4.45	49.06	74.00	24.94	peak	150	0	Р		

Report No.: CTL2207053063-WF03

Test frequency: 2480 Polarization: Vertical Radiated Emission Measurement													
File :RSE 2022 110.0 dBuV/m													
100													
90													
80													
70		FCC Part15 RE-Class B	_Above 1GHz_PK										
60		FCC Part15 RE-Class B	hous 16Hz AVe										
50	La transmission	alter and a second and a second	And the second										
40													
30													
20													
10.0 2460.000 2470.00	2480.00 2490.00 2500.00 (N	(Hz) 2520.00 2530.00 25	540.00 2550.00 2560.00										
Site CTL 966 Chamber 1	Pola	rization: Vertical	Temperature: 25(C)										
Limit: FCC Part15 RE-Clas			Humidity: 50 %										
EUT:		ance: 3m											
M/N: Mondo Elite Classic													
Mode: WORKING													
Note: DH5 2480 ANT1													
Company name: Grace Di	gital Inc.												
No. Frequency Readi (MHz) (dBu)		Detector	zimuth (deg.) P/F Remark										
1 2483.500 53.83	3 -4.45 49.38 74.00) 24.62 peak 150	360 P										
2 2486.609 54.6	9 -4.45 50.24 74.00) 23.76 peak 150	360 P										

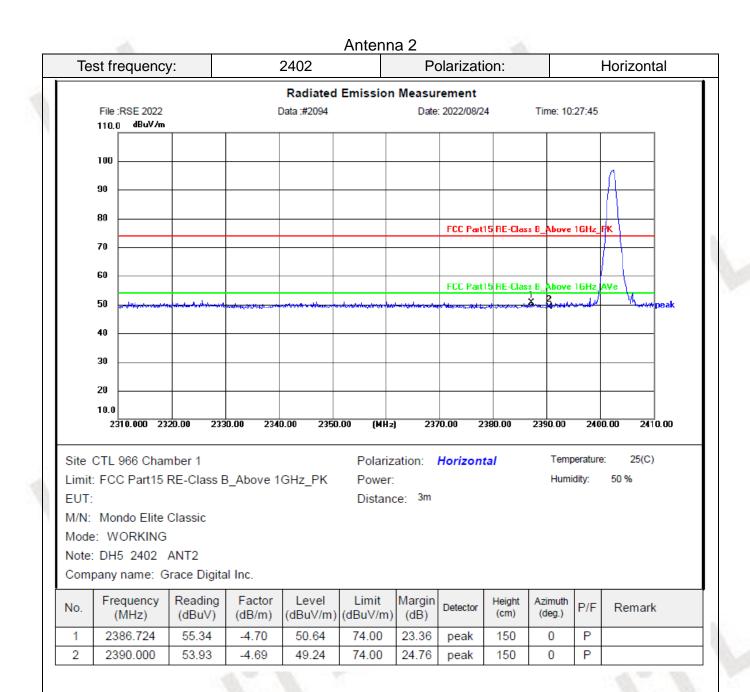
REMARKS:

- Level (dBuV/m) =Reading (dBuV)+ Factor (dB/m)
 Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Limit value-Level value.
- Other emission levels are attenuated 20dB below the limit and not recorded in report.
- 5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.





V1.0



Report No.: CTL2207053063-WF03

	Test	requency	/:		2402		Po	olarizati	on:			Vertica	
Г					Radiated	Emission	n Measu	rement					
2	File :RSE 2022 Data :#2095 Date: 2022/08/24 Time: 10:29:38 110.0 dBuV/m												
	100	ı											
	90											<u>n</u>	
	80							FCC D	15 RE-Class		101-		
	70							FLL Part	15 HE-LIas	S B_Aboye	TGHZ_		
	60											$ \rangle$	
	50			1	h An at set and the name of the	And the second second second	n ^a riwawa (ka ^k aka A	FCC Part	15 RE-Class	B_Above	1GHz_		peak
	40												
	30												
	20 10.	0											
		2310.000 23	20.00 233	30.00 2340).00 2350	1.00 (MH:	2) 237	70.00 2	380.00	2390.00	240	0.00 241	0.00
:	Site CTI	_ 966 Chan	nber 1			Polariz	zation:	Vertical		Temp	perature	e: 25(C)	
	Limit: F	CC Part15 I	RE-Class E	3_Above 1	GHz_PK	Power	:			Humi	dity:	50 %	
	EUT:					Distan	ce: 3m						
		ondo Elite	Classic										
		VORKING											
		H5 2402											
		y name: G		ai inc.									
I	No. F	requency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	C
		385.006	54.92	-4.70	50.22	74.00	23.78	peak	150	359	Ρ		
	2 2	390.000	54.20	-4.69	49.51	74.00	24.49	peak	150	359	Ρ		





V1.0

Tes	t frequency	:	2	2480		Po	olarizati	on:			Horizont	al
				Radiated	Emission	Measu	rement					
	File :RSE 2022 110.0 dBuV/m		[Data :#2096		Date	: 2022/08/2	4	Time: 10	:31:34		
	100											
	90								_			
	80								_			
	70						FCC Part	15 RE-Class	B_Above	1GHz_	PK	
	60									1611-	8 34 -	
	50 	- Harris	1. 3			agaagaa ahayaa ahay		15 RE-Class	B_ADOVE	TGHZ_		peak
	40											
	30											
	20											
	10.0 2460.000 243	70.00 248	0.00 2490).00 2500	.00 (MHz	252	20.00 2	530.00	2540.00	255	0.00 256	0.00
	CTL 966 Chan FCC Part15 F		3_Above 1	GHz_PK	Polariz Power: Distano		Horizon	tal	Tem; Humi	oerature dity:	e: 25(C) 50 %	
	Mondo Elite (WORKING	Classic										
Note:	DH5 2480 / any name: G		l Inc									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	¢
1	2483.500	53.33	-4.45	48.88	74.00	25.12	peak	150	0	Ρ		
2	2489.087	54.36	-4.44	49.92	74.00	24.08	peak	150	0	Р		

V1.0

Report No.: CTL2207053063-WF03

Test frequency:	2480	Polarization:	Vertical							
	Radiated Emissi	on Measurement								
File :RSE 2022 110.0 dBuV/m	Data :#2097	Date: 2022/08/24 Tir	me: 10:33:54							
100										
90										
80		FCC Part15 RE-Class B_	Above 1GHz_PK							
70										
60		FCC Part15 RE-Class B_	Above 1GHz_AVe							
50 commercial and the second s		politica francest and an an and a second								
40										
30										
20										
10.0 2460.000 2470.00	2480.00 2490.00 2500.00 (M	Hz) 2520.00 2530.00 254	0.00 2550.00 2560.00							
Site CTL 966 Chamber 1 Polarization: Vertical Temperature: 25(C)										
Limit: FCC Part15 RE-Class B_Above 1GHz_PK Power: Humidity: 50 % EUT: Distance: 3m										
M/N: Mondo Elite Classic										
Mode: WORKING										
Note: DH5 2480 ANT2										
Company name: Grace Dig	gital Inc.									
No. Frequency (MHz) Readin (MHz) (dBuV		Detector	imuth Ieg.) P/F Remark							
1 2483.500 53.21	-4.45 48.76 74.00) 25.24 peak 150 3	360 P							
2 2486.906 54.89	-4.44 50.45 74.00	23.55 peak 150 3	360 P							

REMARKS:

- 1. Level (dBuV/m) =Reading (dBuV)+ Factor (dB/m)
- 2. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Limit value-Level value.
- 4. Other emission levels are attenuated 20dB below the limit and not recorded in report.
- 5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.





3.3. Maximum Peak Output Power

Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt.

For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.

Test Configuration



Test Results









3.4. 20dB Bandwidth

<u>Limit</u>

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Test Configuration



Test Results







3.5. Frequency Separation

LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with100 KHz RBW and 300 KHz VBW.

TEST CONFIGURATION



TEST RESULTS







3.6. Number of hopping frequency

<u>Limit</u>

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with 100 KHz RBW and 300 KHz VBW.

Test Configuration





Test Results





3.7. Time of Occupancy (Dwell Time)

<u>Limit</u>

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 Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 1MHz VBW, Span 0Hz.

Test Configuration



Test Results







3.8. Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these setting are made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



Test Results







3.9. Pseudorandom Frequency Hopping Sequence

TEST APPLICABLE

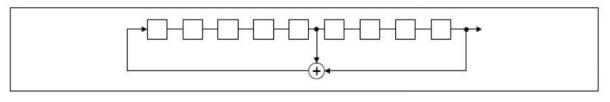
For 47 CFR Part 15C section 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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 hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

The pseudorandom frequency hopping sequence may be generated in a nice-stage 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, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:

0	2	4	6	62 64	78	1	73 75 77
					1		
					1		

Each frequency used equally one the average by each transmitter.

The system receiver has input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

3.10. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c)(1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The device used external antenna and the maximum gain is 5.29dBi.



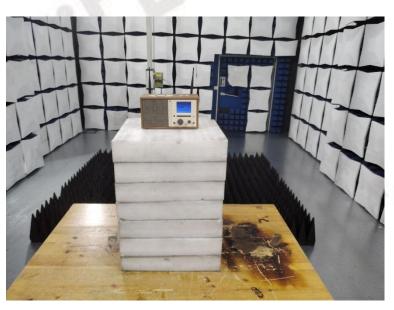




4. Test Setup Photos of the EUT









5. Photos of the EUT

Reference to the test report No. CTL2207053063-WF01

