

RADIO TEST REPORT FCC ID: 2AAUI-GDIEXJRNY02

Product:	EcoJourney
Trade Mark:	ECOXGEAR
Model No.:	GDI-EXJRNY02
Family Model:	GDI-EXJRNY10
Report No.:	S20120202405002
Issue Date:	Jan 04. 2021

Prepared for

Grace Digital Inc.

Grace Digital Inc. 10531 4S Commons Drive#166 Suite#430, San Diego, CA 92127, USA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-3699 5508 Website: http://www.ntek.org.cn





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ACCREDITED

Certificate #4298.01

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1 TEST RESULT CERTIFICATION

Applicant's name:	Grace Digital Inc.
Address:	Grace Digital Inc. 10531 4S Commons Drive#166 Suite#430, San Diego, CA 92127, USA
Manufacturer's Name:	Xingtel Xiamen Group Co., Ltd.
Address:	Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen 361006, PR China
Product description	
Product name:	EcoJourney
Model and/or type reference:	GDI-EXJRNY02
Family Model:	GDI-EXJRNY10

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	Complied
ANSI C63.10-2013	Complied
KDB 558074 D01 15.247 Meas Guidance v05r02	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Dec 02. 2020 ~Jan 04, 2021	
Testing Engineer	:	Allen Liu)	
Technical Manager	:	Jason Chen (Jason Chen)	
Authorized Signatory	:	(Alex Li)	



	FCC Part15 (15.247), Subpart	С	
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
Name of Firm	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.
	Street, bao an District, Shenzhen 310120 F.R. Chilla.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	EcoJourney		
Trade Mark	ECOXGEAR		
FCC ID	2AAUI-GDIEXJRNY02		
Model No.	GDI-EXJRNY02		
Family Model	GDI-EXJRNY10		
Model Difference	All the model are the same circuit and RF module, except the color difference.		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK		
Number of Channels	40 Channels		
Antenna Type	PCB Antenna		
Antenna Gain	0 dBi		
Power supply	DC 14.8V/5200mAh from battery or DC 5V from Adapter.		
Adapter	Model: P12DUSB050200 Input: 100-240V~50/60Hz Output: 5V2000mA		
HW Version	BT339-M-V1.2, BT339-POWER-V1.2		
SW Version	ECOXGEAR_BA_BT339_Uart1049PatchT1.xuv		

AC

Certificate #4298.01

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.



Revision History				
Report No.	Version	Description	Issued Date	
S20120202405002	Rev.01	Initial issue of report	Jan 04, 2021	
			Dogo Z of 47	

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5 DESCRIPTION OF TEST MODES

NTEK 1L:

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbpss for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases	
Test Item	Data Rate/ Modulation	
AC Conducted Emission	Mode 1: normal link mode	
	Mode 1: normal link mode	
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps	
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps	
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps	
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps	
Conducted Test	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps	
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps	

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode. AC power line Conducted Emission was tested under maximum output power.

2. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

3. EUT built-in battery-powered, the battery is fully-charged.

NTEK北测	ACCREDITED Certificate #4298.01	Report No.: S201	20202405002
6 SETUP OF EQUIPMENT			
6.1 BLOCK DIAGRAM CONFI	GURATION OF TEST SYS	STEM	
For AC Conducted Emission Mode			
C-2	C-1	AC PLUG	
AE-2 EU			
Load	Λααριοι		
For Radiated Test Cases			
For Radiated Test Cases			
EUT			
For Conducted Test Cases			
Measurement C-3	JT		
Note: The temporary antenna cor	nnector is soldered on th	e PCB board in order	to perform conducted
tests and this temporary antenna	connector is listed in the	equipment list.	



6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	P12DUSB050200	N/A	Peripherals
AE-2	Load	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Power Cable	NO	NO	1.0m
C-3	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

aulatic	na Conducted I	estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.07.13	2021.07.12	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2020.04.11	2021.04.10	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.07.13	2021.07.12	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.07.13	2021.07.12	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.6	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.04.11	2021.04.10	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13	2021.07.12	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.04.11	2021.04.10	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

	Conducted	Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

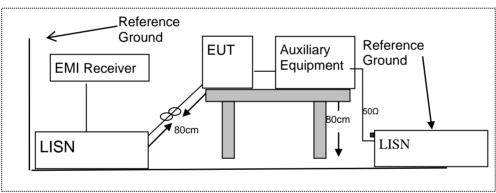
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



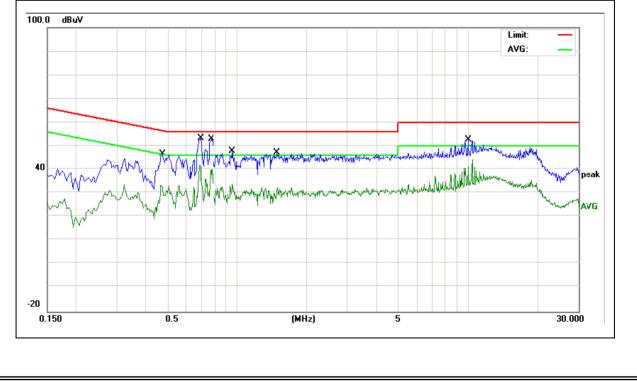
7.1.6 Test Results

EUT:	EcoJourney	Model Name :	GDI-EXJRNY02
Temperature:	23 ℃	Relative Humidity:	40%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.474	37.08	9.55	46.63	56.44	-9.81	QP
0.474	26.47	9.55	36.02	46.44	-10.42	AVG
0.69	41.85	9.55	51.4	56	-4.6	QP
0.69	32.25	9.55	41.8	46	-4.2	AVG
0.774	43.41	9.55	52.96	56	-3.04	QP
0.774	30.38	9.55	39.93	46	-6.07	AVG
0.954	38.39	9.56	47.95	56	-8.05	QP
0.954	27.69	9.56	37.25	46	-8.75	AVG
1.486	37.66	9.56	47.22	56	-8.78	QP
1.486	26.99	9.56	36.55	46	-9.45	AVG
10.014	43	9.7	52.7	60	-7.3	QP
10.014	34.33	9.7	44.03	50	-5.97	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Version.1.3



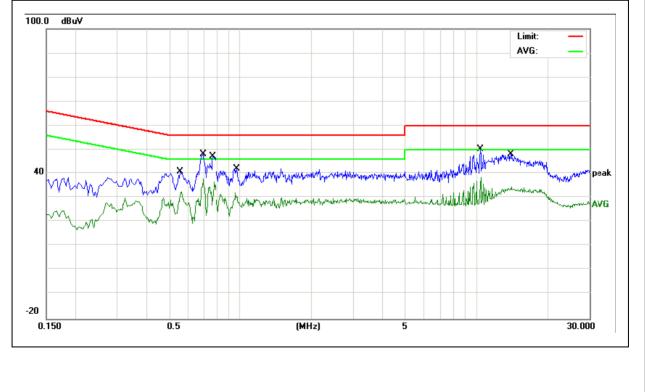
EUT:	EcoJourney	Model Name :	GDI-EXJRNY02
Temperature:	23 ℃	Relative Humidity:	40%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorti
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.554	31.29	9.54	40.83	56	-15.17	QP
0.554	20.98	9.54	30.52	46	-15.48	AVG
0.69	38.81	9.54	48.35	56	-7.65	QP
0.69	28.08	9.54	37.62	46	-8.38	AVG
0.762	37.66	9.54	47.2	56	-8.8	QP
0.762	27.01	9.54	36.55	46	-9.45	AVG
0.966	32.52	9.55	42.07	56	-13.93	QP
0.966	22.89	9.55	32.44	46	-13.56	AVG
10.358	40.69	9.69	50.38	60	-9.62	QP
10.358	28.59	9.69	38.28	50	-11.72	AVG
13.9379	38.63	9.74	48.37	60	-11.63	QP
13.9379	28.28	9.74	38.02	50	-11.98	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



Version.1.3



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to FOC Fart 13.200, Restricted bands							
MHz	MHz	GHz					
16.42-16.423	399.9-410	4.5-5.15					
16.69475-16.69525	608-614	5.35-5.46					
16.80425-16.80475	960-1240	7.25-7.75					
25.5-25.67	1300-1427	8.025-8.5					
37.5-38.25	1435-1626.5	9.0-9.2					
73-74.6	1645.5-1646.5	9.3-9.5					
74.8-75.2	1660-1710	10.6-12.7					
123-138	2200-2300	14.47-14.5					
149.9-150.05	2310-2390	15.35-16.2					
156.52475-156.52525	2483.5-2500	17.7-21.4					
156.7-156.9	2690-2900	22.01-23.12					
162.0125-167.17	3260-3267	23.6-24.0					
167.72-173.2	3332-3339	31.2-31.8					
240-285	3345.8-3358	36.43-36.5					
322-335.4	3600-4400	(2)					
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358					

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV	/m) (at 3M)
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



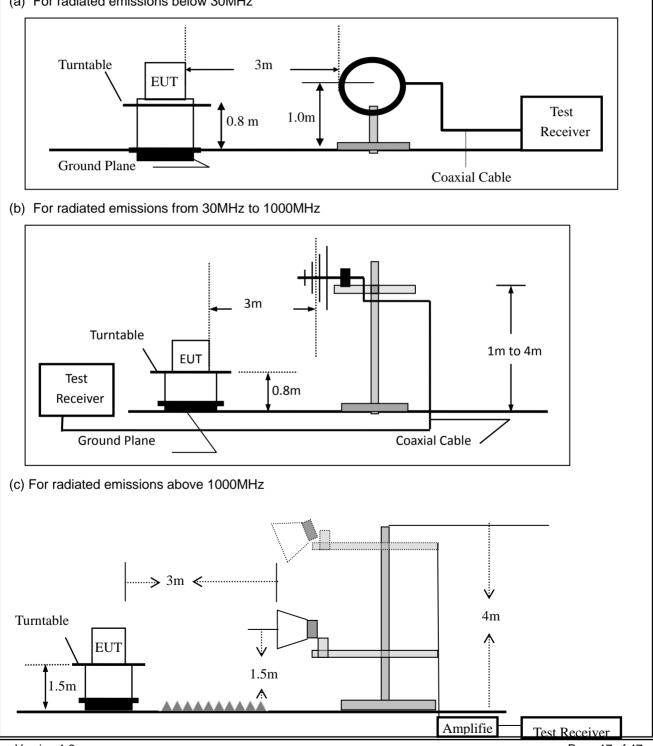
7.2.3 Measuring Instruments

N

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting				
Attenuation	Auto				
Start Frequency	1000 MHz				
Stop Frequency	10th carrier harmonic				
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average				

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:								
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth					
30 to 1000	QP	120 kHz	300 kHz					
Above 1000	Peak	1 MHz	1 MHz					
Above 1000	Average	1 MHz	1 MHz					

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

	Spurious	Emission	below 30MHz	(9KHz to 30MHz)
--	----------	----------	-------------	-----------------

EUT:	EcoJourney	Model No.:	GDI-EXJRNY02
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



■ Spurious Emission below 1GHz (30MHz to 1GHz)

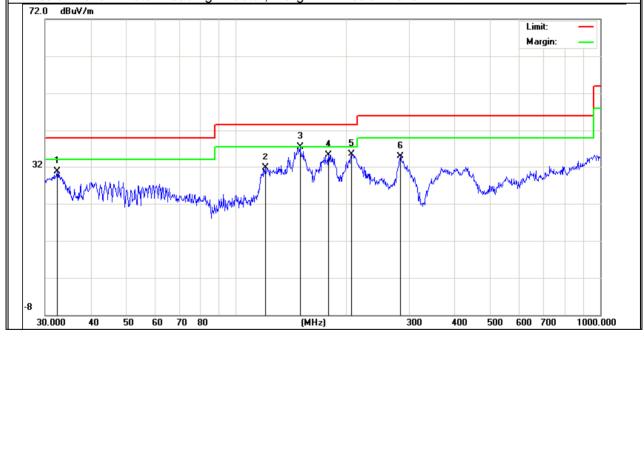
All the modulatior	modes have been tested	, and the worst	result was rep	ort as below:

EUT:	EcoJourney	Model Name :	GDI-EXJRNY02
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 14.8V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.4059	12.92	17.69	30.61	40	-9.39	QP
V	120.2766	19.29	12.41	31.7	43.5	-11.8	QP
V	150.0107	25.53	11.97	37.5	43.5	-6	QP
V	179.3863	25.32	10.06	35.38	43.5	-8.12	QP
V	207.1226	25.71	9.86	35.57	43.5	-7.93	QP
V	281.9945	19.59	15.33	34.92	46	-11.08	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit





H H <t< th=""><th></th><th></th><th>Factor (dB) 7.59 12.43 12.01 10.21 15.67 16.97 ctor, Margin</th><th>Emission Level (dBuV/m) 28.34 34.91 34.55 34.59 36.5 37.24 h= Emission Lo</th><th>6 ×</th><th>Margin (dB) -11.66 -8.59 -8.95 -8.91 -9.5 -8.76 Limit: Margin:</th><th>Remark</th></t<>			Factor (dB) 7.59 12.43 12.01 10.21 15.67 16.97 ctor, Margin	Emission Level (dBuV/m) 28.34 34.91 34.55 34.59 36.5 37.24 h= Emission Lo	6 ×	Margin (dB) -11.66 -8.59 -8.95 -8.91 -9.5 -8.76 Limit: Margin:	Remark
H H H H H Remark: T2.0 dBuV/	77.3212 119.018 147.4036 174.4241 281.0074 375.9384 _evel= Meter F	20.75 22.48 22.54 24.38 20.83 20.27 Reading+ Fac	7.59 12.43 12.01 10.21 15.67 16.97	28.34 34.91 34.55 34.59 36.5 37.24	40 43.5 43.5 43.5 46 46 46 evel - Limit	-11.66 -8.59 -8.95 -8.91 -9.5 -8.76	QP QP QP QP
H H H H Remark: Emission L 72.0 dBuV/	119.018 147.4036 174.4241 281.0074 375.9384 _evel= Meter F	22.48 22.54 24.38 20.83 20.27 Reading+ Fac	12.43 12.01 10.21 15.67 16.97	34.91 34.55 34.59 36.5 37.24	43.5 43.5 43.5 46 46 46 evel - Limit	-8.59 -8.95 -8.91 -9.5 -8.76	QP QP QP QP
H H H Remark: Emission Lu 72.0 dBuV/	147.4036 174.4241 281.0074 375.9384 _evel= Meter F	22.54 24.38 20.83 20.27 Reading+ Fac	12.01 10.21 15.67 16.97	34.55 34.59 36.5 37.24	43.5 43.5 46 46 evel - Limit	-8.95 -8.91 -9.5 -8.76	QP QP QP
H H Remark: 72.0 dBuV/ 72.0 dBuV/	174.4241 281.0074 375.9384 _evel= Meter F	24.38 20.83 20.27 Reading+ Fac	10.21 15.67 16.97	34.59 36.5 37.24 h= Emission Lu	43.5 46 46 evel - Limit	-8.91 -9.5 -8.76	QP QP
H Remark: Emission Lu 72.0 dBuV/ 32	281.0074 375.9384	20.83 20.27 Reading+ Fac	15.67 16.97	36.5 37.24	46 46 evel - Limit	-9.5 -8.76	QP
H Remark: Emission L 72.0 dBuV/	375.9384 _evel= Meter F	20.27 Reading+ Fac	16.97	37.24	46 evel - Limit	-8.76	
Remark: Emission Lu 72.0 dBuV/ 32	_evel= Meter F	Reading+ Fac		n= Emission Lu	evel - Limit	Limit: Margin:	
Emission L 72.0 dBuV/ 32	//m		ctor, Margir		6 ×	Margin:	
	houlen for the second sec			Å. "Madmad	n m	wer were the second	F
-8							



Spurious E	mission Ab	ove 1GI	Hz (1GHz	to 25GHz)					
EUT:	EcoJo	urney		Model	Model No.:		GDI-EXJRNY02			
Temperature:	20 ℃			Relative Humidity:		dity: 48%		48%		
Fest Mode:	Mode2	2/Mode3	/Mode4	Test By	/:	Allen Liu				
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remarl	k Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
		l	ow Channe	el (2402 M	Hz)(GFSK)	Above 1G				
4804.338	62.95	5.21	35.59	44.30	59.45	74.00	-14.55	Pk	Vertical	
4804.338	42.20	5.21	35.59	44.30	38.70	54.00	-15.30	AV	Vertical	
7206.107	61.19	6.48	36.27	44.60	59.34	74.00	-14.66	Pk	Vertical	
7206.107	41.46	6.48	36.27	44.60	39.61	54.00	-14.39	AV	Vertical	
4804.169	62.85	5.21	35.55	44.30	59.31	74.00	-14.69	Pk	Horizontal	
4804.169	42.72	5.21	35.55	44.30	39.18	54.00	-14.82	AV	Horizontal	
7206.214	61.95	6.48	36.27	44.52	60.18	74.00	-13.82	Pk	Horizontal	
7206.214	42.46	6.48	36.27	44.52	40.69	54.00	-13.31	AV	Horizontal	
	Mid Channel (2440 MHz)(GFSK)Above 1G									
4880.473	62.82	5.21	35.66	44.20	59.49	74.00	-14.51	Pk	Vertical	
4880.473	42.79	5.21	35.66	44.20	39.46	54.00	-14.54	AV	Vertical	
7320.265	65.87	7.10	36.50	44.43	65.04	74.00	-8.96	Pk	Vertical	
7320.265	41.49	7.10	36.50	44.43	40.66	54.00	-13.34	AV	Vertical	
4880.366	61.96	5.21	35.66	44.20	58.63	74.00	-15.37	Pk	Horizontal	
4880.366	41.08	5.21	35.66	44.20	37.75	54.00	-16.25	AV	Horizontal	
7320.234	59.85	7.10	36.50	44.43	59.02	74.00	-14.98	Pk	Horizontal	
7320.234	44.19	7.10	36.50	44.43	43.36	54.00	-10.64	AV	Horizontal	
		H	ligh Channe	el (2480 M	Hz)(GFSK)	Above 1G				
4960.482	64.69	5.21	35.52	44.21	61.21	74.00	-12.79	Pk	Vertical	
4960.482	42.22	5.21	35.52	44.21	38.74	54.00	-15.26	AV	Vertical	
7440.131	65.28	7.10	36.53	44.60	64.31	74.00	-9.69	Pk	Vertical	
7440.131	49.16	7.10	36.53	44.60	48.19	54.00	-5.81	AV	Vertical	
4960.326	62.78	5.21	35.52	44.21	59.30	74.00	-14.70	Pk	Horizontal	
4960.326	45.63	5.21	35.52	44.21	42.15	54.00	-11.85	AV	Horizontal	
7440.199	64.12	7.10	36.53	44.60	63.15	74.00	-10.85	Pk	Horizontal	
7440.199	44.46	7.10	36.53	44.60	43.49	54.00	-10.51	AV	Horizontal	

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



Report No.: S20120202405002

EUT:	EcoJou	rney		Mod	el No.:	(GDI-I	EXJRNY	02	
Temperature	e: 20 ℃			Rela	tive Humidit	ty:	48%			
Test Mode:	Mode2/	Mode4		Test	By:		Allen	Liu		
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limi	its	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ∖	//m)	(dB)	Туре	
					GFSK	•				
2310.00	63.20	2.97	27.80	43.80	50.17	74	ł	-23.83	Pk	Horizonta
2310.00	42.34	2.97	27.80	43.80	29.31	54	ł	-24.69	AV	Horizonta
2310.00	61.52	2.97	27.80	43.80	48.49	74	ł	-25.51	Pk	Vertical
2310.00	42.03	2.97	27.80	43.80	29.00	54	ł	-25.00	AV	Vertical
2390.00	63.51	3.14	27.21	43.80	50.06	74	ł	-23.94	Pk	Vertical
2390.00	42.68	3.14	27.21	43.80	29.23	54	ł	-24.77	AV	Vertical
2390.00	64.43	3.14	27.21	43.80	50.98	74	ł	-23.02	Pk	Horizonta
2390.00	43.01	3.14	27.21	43.80	29.56	54	ł	-24.44	AV	Horizonta
2483.50	62.49	3.58	27.70	44.00	49.77	74	ł	-24.23	Pk	Vertical
2483.50	43.08	3.58	27.70	44.00	30.36	54	ł	-23.64	AV	Vertical
2483.50	64.58	3.58	27.70	44.00	51.86	74	ł	-22.14	Pk	Horizonta
2483.50	43.84	3.58	27.70	44.00	31.12	54	ŀ	-22.88	AV	Horizonta

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



Spurious	Emission ir	Restric	ted Band 3	260MHz-	18000MHz				
EUT:	EcoJou	ırney		Model	No.:	GDI-E	EXJRNY0	2	
Temperature	: 20 °C			Relativ	e Humidity	48%			
Test Mode:	Mode2	/ Mode4		Test B	y:	Allen	Liu		
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	64.67	4.04	29.57	44.70	53.58	74	-20.42	Pk	Vertical
3260	57.81	4.04	29.57	44.70	46.72	54	-7.28	AV	Vertical
3260	65.88	4.04	29.57	44.70	54.79	74	-19.21	Pk	Horizontal
3260	59.46	4.04	29.57	44.70	48.37	54	-5.63	AV	Horizontal
3332	65.05	4.26	29.87	44.40	54.78	74	-19.22	Pk	Vertical
3332	58.24	4.26	29.87	44.40	47.97	54	-6.03	AV	Vertical
3332	65.18	4.26	29.87	44.40	54.91	74	-19.09	Pk	Horizontal
3332	52.93	4.26	29.87	44.40	42.66	54	-11.34	AV	Horizontal
17797	44.56	10.99	43.95	43.50	56.00	74	-18.00	Pk	Vertical
17797	34.52	10.99	43.95	43.50	45.96	54	-8.04	AV	Vertical
17788	44.26	11.81	43.69	44.60	55.16	74	-18.84	Pk	Horizontal
17788	36.10	11.81	43.69	44.60	47.00	54	-7.00	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

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.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	EcoJourney	Model No.:	GDI-EXJRNY02
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

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. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on}/T_{total}



7.4.6 Test Results

EUT:	EcoJourney	Model No.:	GDI-EXJRNY02
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 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. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	EcoJourney	Model No.:	GDI-EXJRNY02
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.6 **POWER SPECTRAL DENSITY**

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	EcoJourney	Model No.:	GDI-EXJRNY02
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance 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 conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies 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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

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.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	EcoJourney	Model No.:	GDI-EXJRNY02
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Allen Liu



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 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.

7.9.2 Result

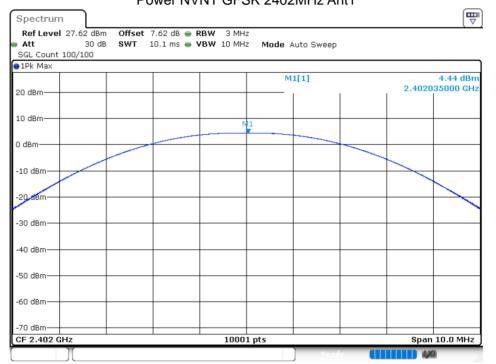
The EUT antenna is permanent attached PCB antenna (Gain: 0 dBi). It comply with the standard requirement.



8 TEST RESULTS

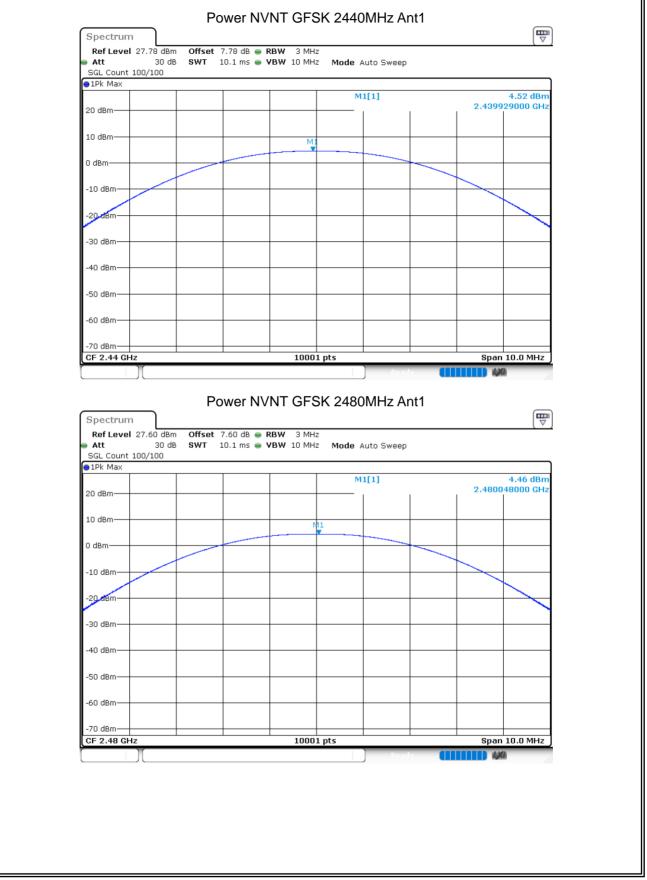
8.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict	
NVNT	GFSK	2402	Ant 1	4.438	30	Pass	
NVNT	GFSK	2440	Ant 1	4.516	30	Pass	
NVNT	GFSK	2480	Ant 1	4.456	30	Pass	



Power NVNT GFSK 2402MHz Ant1





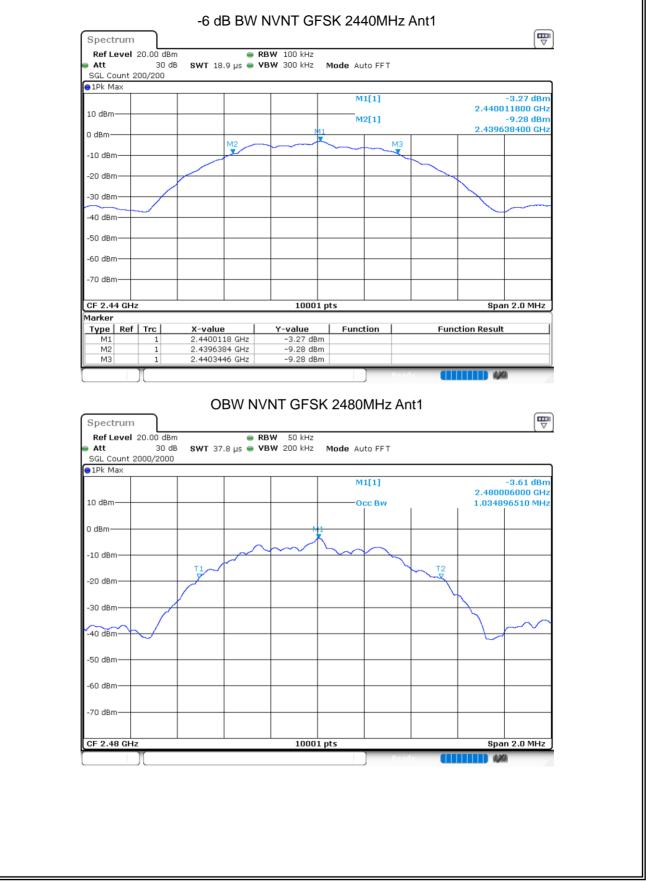


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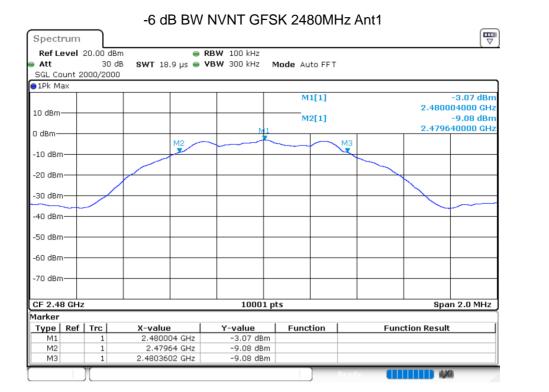




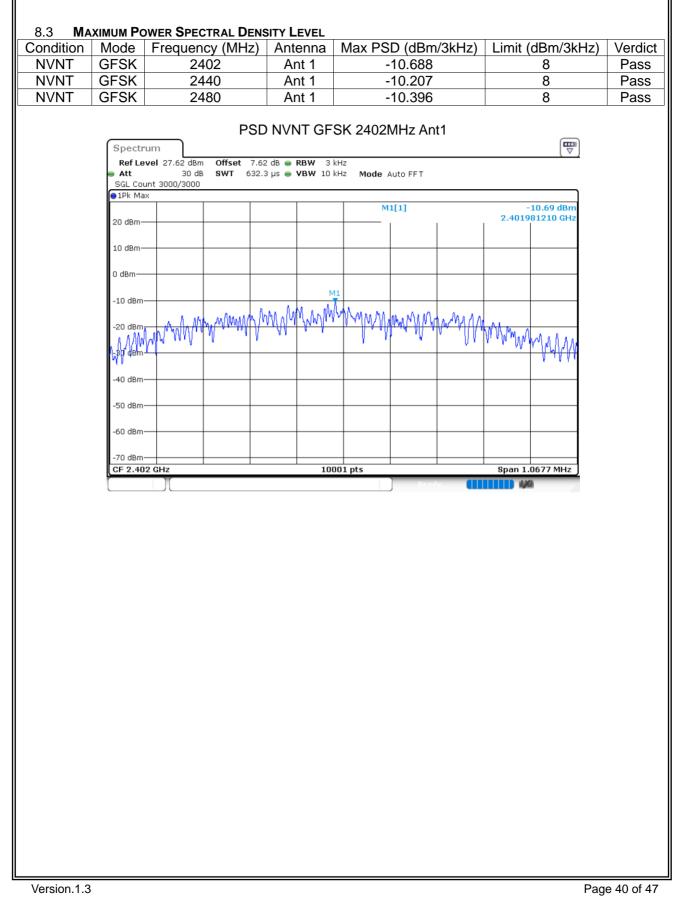


Version.1.3

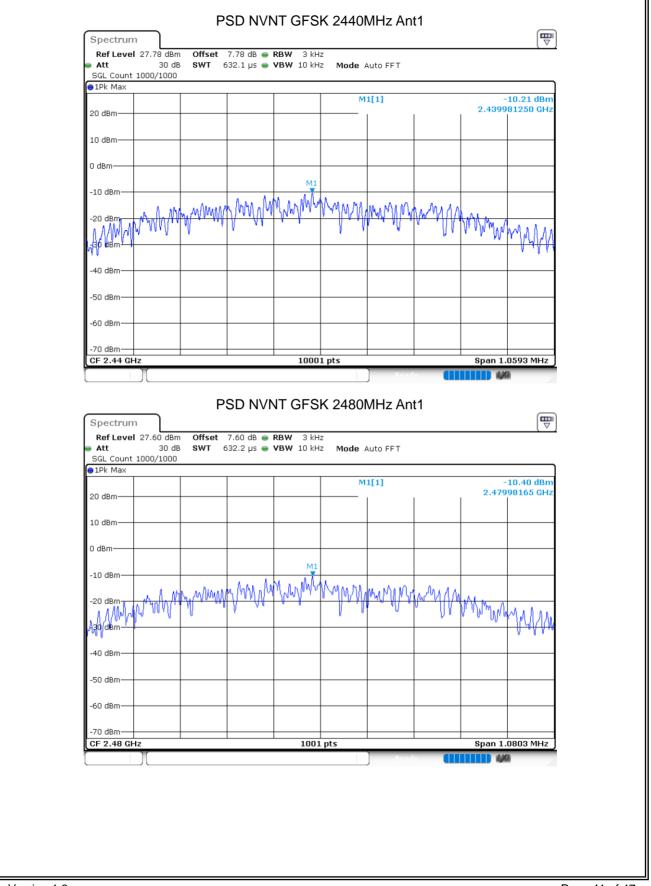




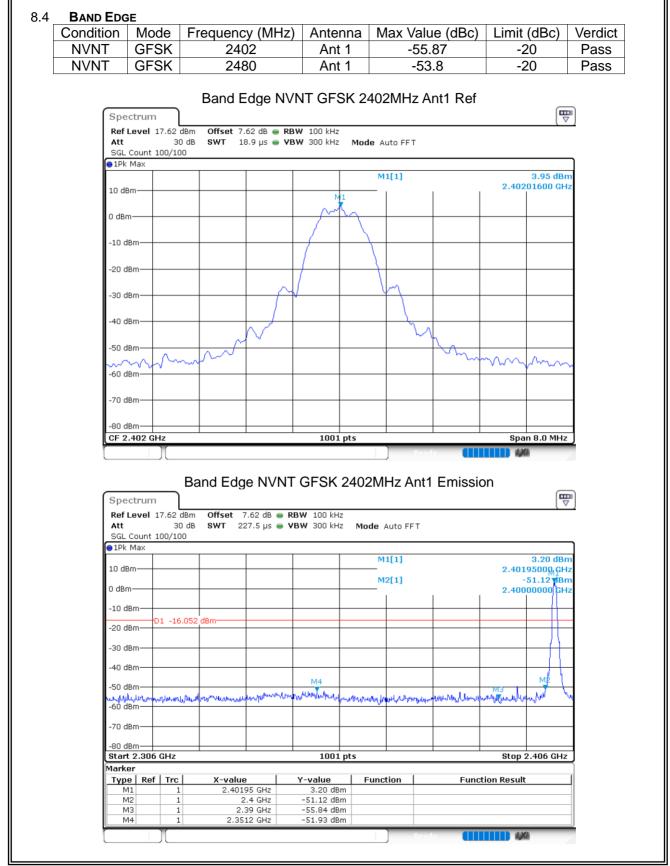






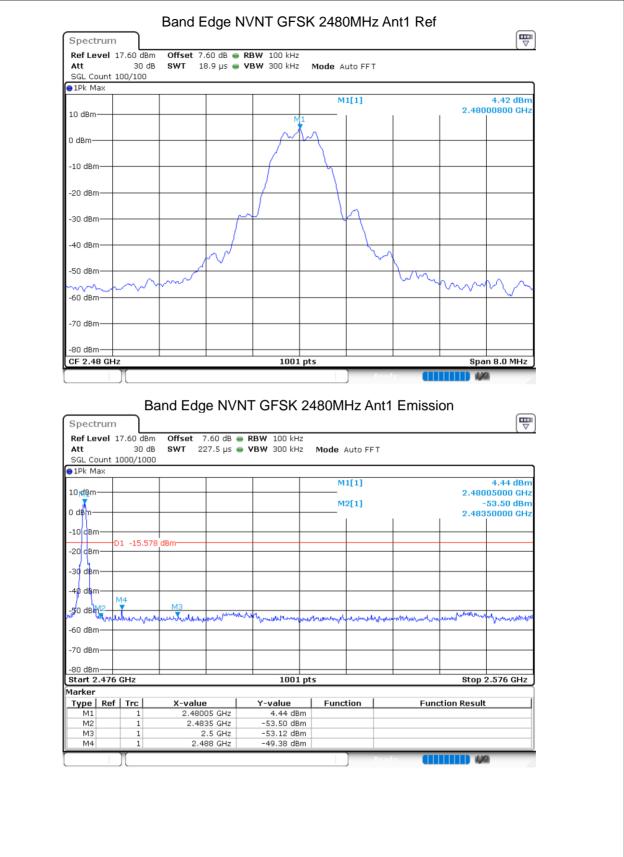






Version.1.3

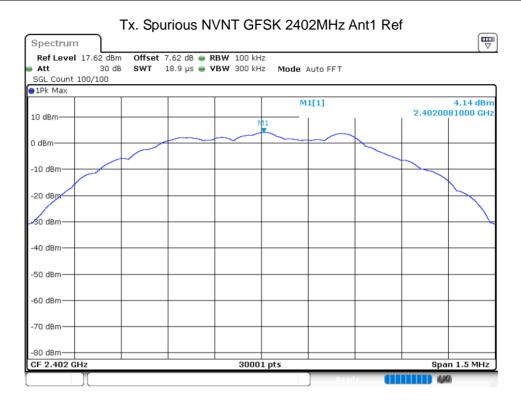




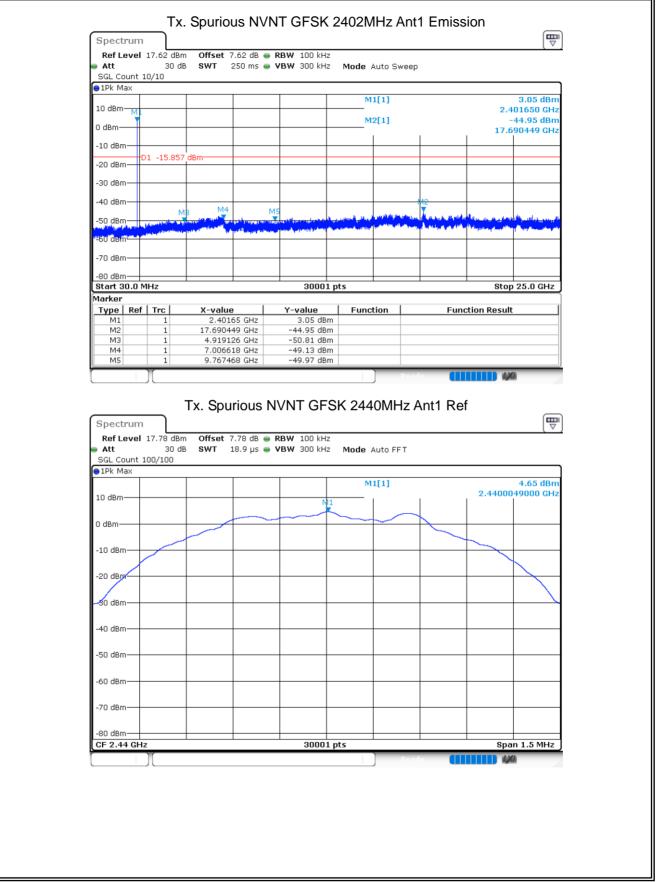


8.5 CONDUCTED RF SPURIOUS EMISSION

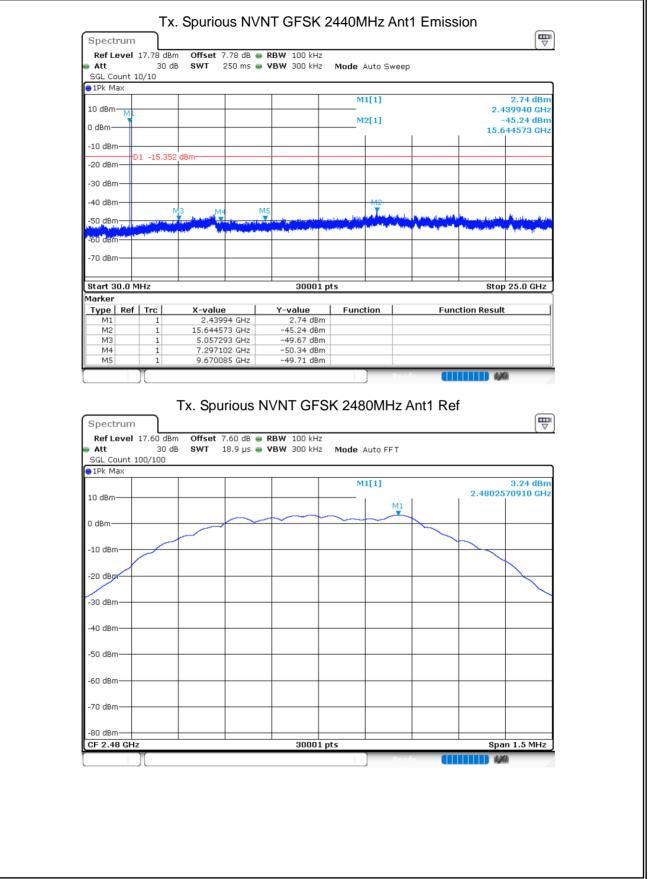
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant 1	-49.09	-20	Pass
NVNT	GFSK	2440	Ant 1	-49.88	-20	Pass
NVNT	GFSK	2480	Ant 1	-49.13	-20	Pass













VEL LE	vel 17.6) dBm Offset	7.60 dB 🧉	RBW 100 kHz				
Att			250 ms 🦷	VBW 300 kHz	Mode Auto St	weep		
SGL COU 1Pk Ma:	nt 10/10 ‹							
					M1[1]			2.50 dBm
10 dBm—	MI						2.4	79890 GHz
	1				M2[1]			45.90 dBm
) dBm—							19.0	31338 GHz
-10 dBm-			<u> </u>					
	D1 -1	6.762 dBm						
20 dBm-	01 -1	5.7 02 0511						
30 dBm-								
30 uBill-								
40 dBm-			<u> </u>			1712		
		мз "М	4	MS	4.4	u la su Tara		
50 dBm-	and all the set of the	A REAL PROPERTY AND A REAL PROPERTY AND A	and a part of parts	and a straight of the state of	and the state of the		المالية ويتحدث المراجع المراجع محمد المراجع ال	A state of the
60 asm-	and the second state	dent service and the service of the	per bage de b	And the strategy and the strategy of the strat	and the second			a della seconda adda a
ou ubiii-								
70 dBm-			<u> </u>					
80 dBm-			<u>+</u>					
Start 30	.0 MHz			30001	ots		Stop	25.0 GHz
larker								
	Ref Tro	_		Y-value	Function	Fun	ction Result	
			989 GHz	2.50 dBm				
M1		1 19.0313	38 GHZ	-45.90 dBm				
M2			40 CH2					
		1 5.0664	49 GHz	-50.96 dBm -49.64 dBm				

END OF REPORT