

Report No.: GZCR211002122002 Page: 1 of 55 FCC ID: 2A3E6-C2

TEST REPORT

Application No.:	GZCR2110021220MD
Applicant:	CEFALY Technology SPRL
Address of Applicant:	Rue Louis Plescia 34, 4102 Seraing, Belgium
Manufacturer:	CEFALY Technology SPRL
Address of Manufacturer:	Rue Louis Plescia 34, 4102 Seraing, Belgium
Factory:	JDI Electronics Factory
Address of Factory:	Sima Village, Chang Ping Town, Dongguan, Guangdong
Equipment Under Test (EUT):
EUT Name:	Medical device for the treatment of migraine
Model No.:	CEFALY DUAL Connected
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-10-14
Date of Test:	2021-10-22 to 2021-12-06
Date of Issue:	2021-12-07
Test Result:	Pass*

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

oke. Jun

Kobe Jian EMC Laboratory Manager



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Report No.: GZCR211002122002 Page: 2 of 55

	Revision Record						
Version Chapter Date Modifier Remark							
01		2021-12-07		Original			

Authorized for issue by		
	City Knong	
	Lily Kuang/Project Engineer	-
	Ridey Lin	
	Ricky Liu/Reviewer	-



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Report No.: GZCR211002122002 Page: 3 of 55

Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass**

**: The EUT passed the Radiated Spurious Emissions (Above 1GHz) test after modification.

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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Report No.: GZCR211002122002 Page: 4 of 55

3 Contents

		Pa	age
1	Cover	r Page	1
2	Tost 9	Summary	3
2	1651 0	Summary	
3	Conte	ents	4
4	Gener	ral Information	6
	4.1 E	Details of E.U.T.	6
		Description of Support Units	
	4.3 N	Measurement Uncertainty	7
		Fest Location	7
		Test Facility	
		Deviation from Standards	
	4.7 A	Abnormalities from Standard Conditions	9
5	Equip	ment List	10
6	Radio	Spectrum Technical Requirement	14
	6.1 A	Antenna Requirement	14
	6.1.1	Test Requirement:	
	6.1.2	Conclusion	14
7	Radio	Spectrum Matter Test Results	15
		Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1	E.U.T. Operation	10 15
	7.1.1	Test Mode Description	
	7.1.2	Test Setup Diagram	
	7.1.4	Measurement Procedure and Data	
		Conducted Peak Output Power	
	7.2.1	E.U.T. Operation	
	7.2.2	Test Mode Description	
	7.2.3	Test Setup Diagram	19
	7.2.4	Measurement Procedure and Data	19
		Minimum 6dB Bandwidth	
	7.3.1	E.U.T. Operation	
	7.3.2	Test Mode Description	
	7.3.3	Test Setup Diagram	
	7.3.4	Measurement Procedure and Data	
		Power Spectrum Density	
	7.4.1	E.U.T. Operation	
	7.4.2 7.4.3	Test Mode Description	
	7.4.3	Test Setup Diagram Measurement Procedure and Data	
		Conducted Band Edges Measurement	
	7.5.1	E.U.T. Operation	
	7.5.2	Test Mode Description	
	7.5.3	Test Setup Diagram	
	7.5.4	Measurement Procedure and Data	



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Report No.: GZCR211002122002

EMC-TRF-01	Rev 1.0	Page:	5 of 55	
7.6	Conducted Spurious Emissions			23
7.6.1	E.U.T. Operation			
7.6.2				
7.6.3	Test Setup Diagram			23
7.6.4				
7.7	Radiated Emissions which fall in the restricted bands			24
7.7.1	E.U.T. Operation			24
7.7.2	Test Mode Description			24
7.7.3	Test Setup Diagram			24
7.7.4	Measurement Procedure and Data			
7.8	Radiated Spurious Emissions (Below 1GHz)			30
7.8.1	E.U.T. Operation			30
7.8.2	Test Mode Description			30
7.8.3	Test Setup Diagram			
7.8.4				
7.9	Radiated Spurious Emissions (Above 1GHz)			
7.9.1	E.U.T. Operation			
7.9.2	Test Mode Description			
7.9.3	1 5			
7.9.4	Measurement Procedure and Data			35
8 Test	Setup Photo			42
9 EUT	Constructional Details (EUT Photos)			43
10 Appe	ndix			44



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Report No.: GZCR211002122002 Page: 6 of 55

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5 V powered by AC/DC adapter as below for charging:
	model: ILM-0500100M
	Input: 100~240V ~50/60Hz 0.2A
	Output: 5V===1A
	DC 3.7 V powered by built-in battery as below for normal working:
	Model: LP521540
	Rated: DC 3.7 V, 280mAh
	The details of charging dock as below:
	Model: CEFALY Charging dock
	Lot No.: 2124
	Input: 5V===1A
	Output: 5V===1A
Cable(s):	DC mains (unshielded, 0.8m)
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0 dBi declared by manufacture
Firmware Version:	SV 01
Hardware Version:	D
Testing Software:	None
Sample NO.:	GZ_SP_20211057992
Power Setting:	Default
Function:	Medical device for the treatment of migraine with BLE function
Test Voltage:	AC 120 V, 60 Hz

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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Report No.: GZCR211002122002 Page: 7 of 55

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz- 30MHz)	±2.76dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz- 6GHz); ±5.38dB (6GHz-18GHz); ±5.61(18GHz-40GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz- 6GHz); ±5.38dB (6GHz-18GHz); ±5.61 dB (18GHz-40GHz)

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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Report No.: GZCR211002122002 Page: 8 of 55

4.5 Test Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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Report No.: GZCR211002122002 Page: 9 of 55

- 4.6 Deviation from Standards None
- 4.7 Abnormalities from Standard Conditions None



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Report No.: GZCR211002122002 Page: 10 of 55

EMC-TRF-01

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A	
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23	
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08	
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A	
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-06-01	2023-05-31	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20	

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20	

Power Spectrum Density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	



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EMC-TRF-01 Rev 1.0

Report No.: GZCR211002122002 Page: 11 of 55

EXA Signal Analyzer Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20
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Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20	

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No	del No Inventory No		Cal Due Date	
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20	

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No	Model No Inventory No		Cal Due Date	
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	z ESIB26 EMC0522		2021-01-08	2022-01-07	
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08	
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D EMC2026		2019-09-25	2022-09-24	
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19	
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31	
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28	



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EMC-TRF-01 Rev 1.0 Report No.: GZCR211002122002 Page: 12 of 55

Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

Radiated Spurious Emissions (Below 1GHz)						
Equipment	Manufacturer	Model No	Iodel No Inventory No		Cal Due Date	
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08	
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168 SEM003-18		2019-02-22	2022-02-22	
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18	
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25	

Radiated Spurious Emissions (Above 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07	
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08	
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24	
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B EMC0521		2021-01-08	2022-01-07	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19	
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31	
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28	
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27	
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29	



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Report No.: GZCR211002122002 Page: 13 of 55

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05	



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Report No.: GZCR211002122002 Page: 14 of 55

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0 dBi.

Please refer to internal photos.



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Report No.: GZCR211002122002 Page: 15 of 55

Radio Spectrum Matter Test Results 7

Conducted Emissions at AC Power Line (150kHz-30MHz) 7.1

Test Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2
Limit:	

	Conducted limit(dBµV)				
Frequency of emission (MHz)	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.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

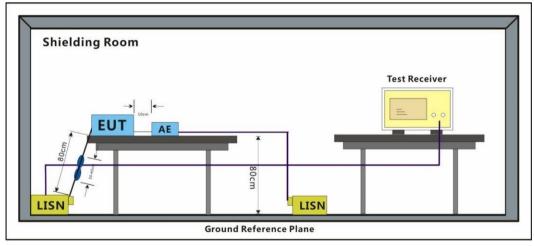
7.1.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	24.8 °C	Humidity:	52	% RH	Atmospheric Pressure: 1003 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram





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Report No.: GZCR211002122002 Page: 16 of 55

7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

The red line show in graphic is the limit in standard used in this section.

Remark: Measured Level=Read Level+ Cable Loss+ LISN Factor



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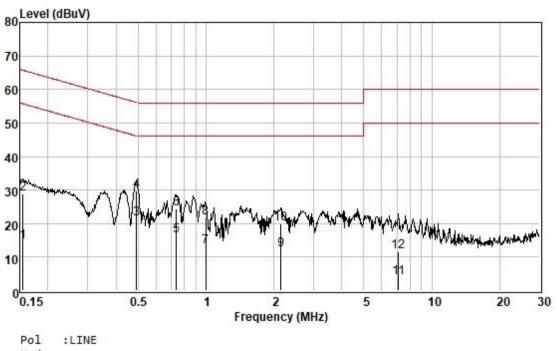
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Report No.: GZCR211002122002 Page: 17 of 55

Test Mode: 00; Line: Live line



Pol :LINE Mode : Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	4.89	0.06	9.62	14.57	55.74	-41.17	Average
0.15	19.28	0.06	9.62	28.96	65.74	-36.78	OP
0.49	11.67	0.07	9.63	21.37	46.10	-24.73	Average
0.49	19.97	0.07	9.63	29.67	56.10	-26.43	QP
0.74	6.71	0.07	9.63	16.41	46.00	-29.59	Average
0.74	14.76	0.07	9.63	24.46	56.00	-31.54	QP
1.00	3.41	0.07	9.62	13.10	46.00	-32.90	Average
1.00	12.07	0.07	9.62	21.76	56.00	-34.24	QP
2.14	2.51	0.12	9.62	12.25	46.00	-33.75	Average
2.14	10.13	0.12	9.62	19.87	56.00	-36.13	QP
7.10	-6.06	0.21	9.67	3.82	50.00	-46.18	Average
7.10	1.66	0.21	9.67	11.54	60.00	-48.46	QP



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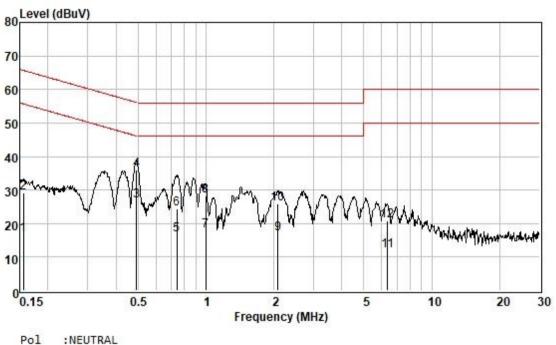
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Report No.: GZCR211002122002 Page: 18 of 55

Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL Mode : Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	6.96	0.06	9.55	16.57	55.69	-39.12	Average
0.16	19.53	0.06	9.55	29.14	65.69	-36.55	QP
0.49	17.07	0.07	9.55	26.69	46.10	-19.41	Average
0.49	26.41	0.07	9.55	36.03	56.10	-20.07	QP
0.74	6.97	0.07	9.55	16.59	46.00	-29.41	Average
0.74	14.82	0.07	9.55	24.44	56.00	-31.56	QP
1.00	8.24	0.07	9.55	17.86	46.00	-28.14	Average
1.00	18.51	0.07	9.55	28.13	56.00	-27.87	QP
2.09	7.16	0.12	9.54	16.82	46.00	-29.18	Average
2.09	16.28	0.12	9.54	25.94	56.00	-30.06	QP
6.35	2.18	0.20	9.57	11.95	50.00	-38.05	Average
6.35	11.17	0.20	9.57	20.94	60.00	-39.06	QP



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Report No.: GZCR211002122002 Page: 19 of 55

7.2 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1.3Limit:Limit:

Frequency range (MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

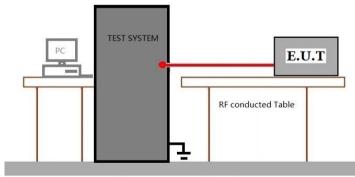
7.2.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	21.9 °C	Humidity:	44.1 % RH	Atmospheric Pressure:	1022	mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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Report No.: GZCR211002122002 Page: 20 of 55

7.3 Minimum 6dB Bandwidth

47 CFR Part 15, Subpart C 15.247a(2) Test Requirement ANSI C63.10 (2013) Section 11.8.1 Test Method: Limit: ≥500 kHz

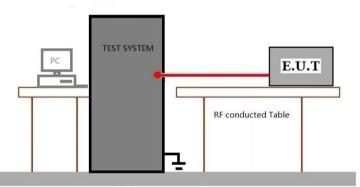
7.3.1 E.U.T. Operation

Operating Environ	ment:					
Temperature:	21.9 °C	Humidity:	44.1 % RH	Atmospheric Pressure:	1022	mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

cable loss=0.9dB

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Report No.: GZCR211002122002 Page: 21 of 55

7.4 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leqslant 8dBm in any 3 kHz band during any time interval of continuous
	transmission

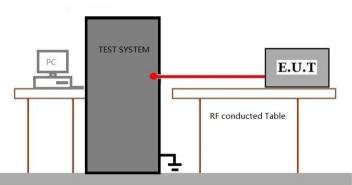
7.4.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	21.9 °C	Humidity:	44.1 % RH	Atmospheric Pressure:	1022	mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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Report No.: GZCR211002122002 Page: 22 of 55

7.5 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.13.3.2
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. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c).

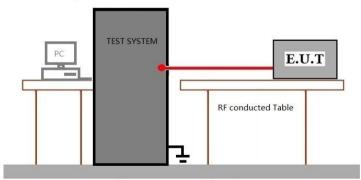
7.5.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	21.9 °C	Humidity:	44.1 % RH	Atmospheric Pressure:	1022	mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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Report No.: GZCR211002122002 Page: 23 of 55

mbar

7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
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. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c).

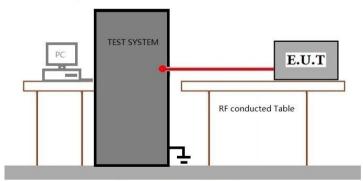
7.6.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	21.9 °C	Humidity:	44.1 % RH	Atmospheric Pressure:	1022	r

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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Report No.: GZCR211002122002 Page: 24 of 55

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.10.5
Limit:	

Frequency (MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.7.1 E.U.T. Operation

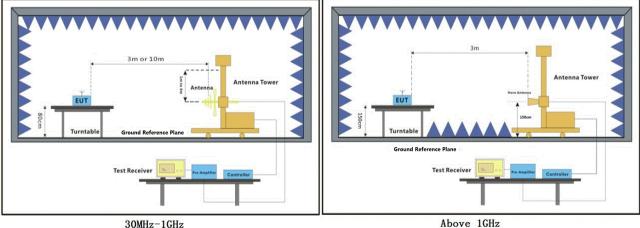
Operating Environment:

Temperature:	22.9 °C	Humidity:	55.3 % RH	Atmospheric Pressure:	1018	mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



30MHz-1GHz



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Report No.: GZCR211002122002 Page: 25 of 55

7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

a. 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.

h. Test the EUT in the lowest channel, the Highest channel.

i. 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.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

The red line show in graphic is the limit in standard used in this section.



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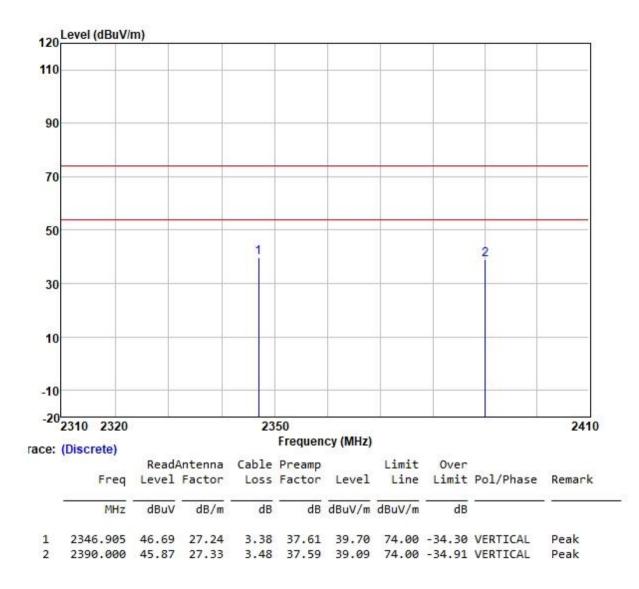
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Report No.: GZCR211002122002 Page: 26 of 55

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



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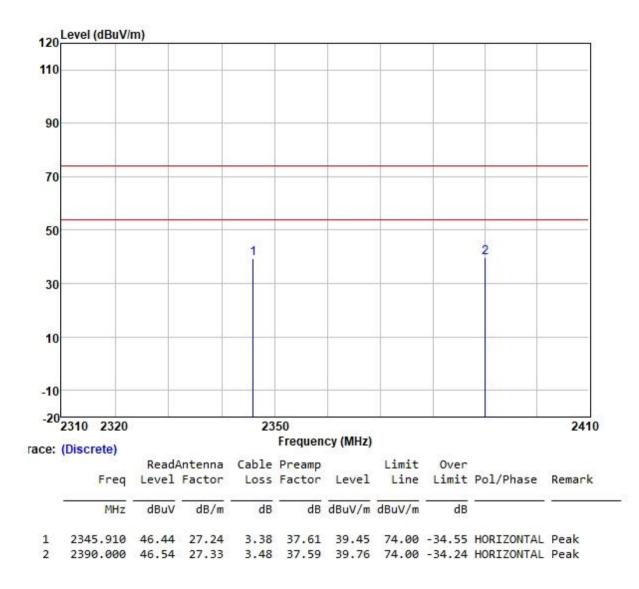
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Report No.: GZCR211002122002 Page: 27 of 55

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



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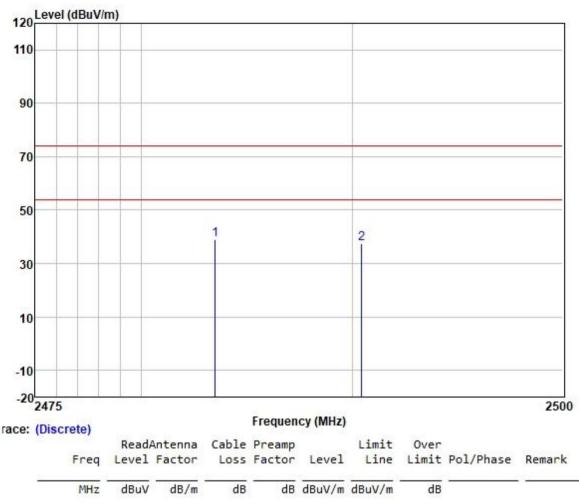
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Report No.: GZCR211002122002 Page: 28 of 55

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



1	2483.500	45.62	27.48	3.53	37.57	39.06	74.00	-34.94	VERTICAL	Peak
2	2490.420	44.25	27.49	3.47	37.56	37.65	74.00	-36.35	VERTICAL	Peak



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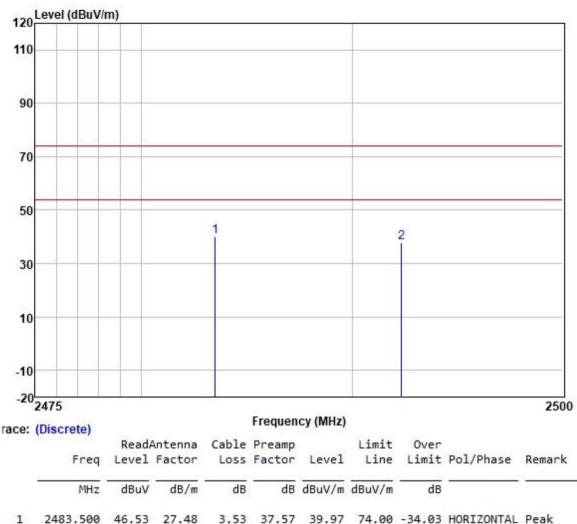
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Report No.: GZCR211002122002 Page: 29 of 55

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



2 2492.323 44.59 27.49 3.47 37.56 37.99 74.00 -36.01 HORIZONTAL Peak



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Report No.: GZCR211002122002 Page: 30 of 55

7.8 Radiated Spurious Emissions (Below 1GHz)

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Distance:	3 m
Limit [.]	

Frequency (MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.8.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.4 °C	Humidity:	53.0 % RH	Atmospheric Pressure:	1003	mbar

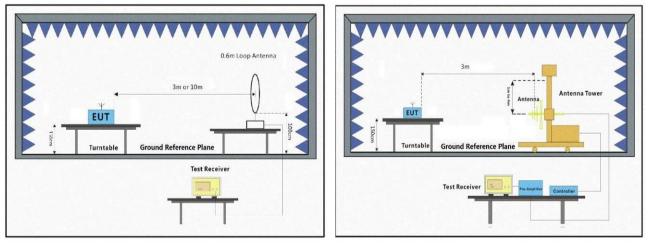
7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram

检验检测专用章 spection & Testing Service

Guano



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Report No.: GZCR211002122002 Page: 31 of 55

7.8.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the 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.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

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.

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) 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

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

The red line show in graphic is the limit in standard used in this section.



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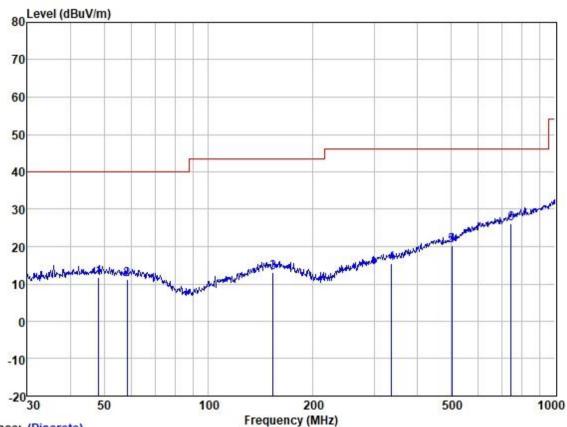
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Report No.: GZCR211002122002 Page: 32 of 55

Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

Site	:	SGS
Job	:	
Model	:	
Power	:	
Test Mode	:	

	Freq				Contraction of the second s	Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	48.16	23.70	13.99	1.13	27.17	11.65	40.00	-28.35	HORIZONTAL	QP
2	58.20	23.51	13.58	1.23	27.16	11.16	40.00	-28.84	HORIZONTAL	QP
3	153.74	23.80	13.80	2.28	26.82	13.06	43.50	-30.44	HORIZONTAL	QP
4	337.22	24.29	14.50	3.46	26.81	15.44	46.00	-30.56	HORIZONTAL	QP
5	502.94	25.90	17.96	4.43	27.98	20.31	46.00	-25.69	HORIZONTAL	QP
6	747.48	26.19	22.15	5.97	28.10	26.21	46.00	-19.79	HORIZONTAL	QP



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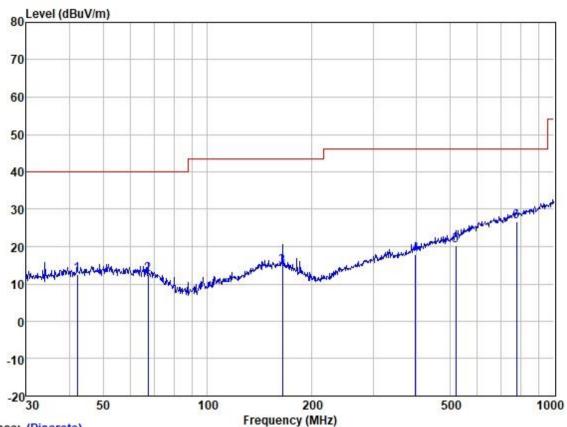
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Report No.: GZCR211002122002 Page: 33 of 55

Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

Site	:	SGS
Job	:	
Model	:	
Power	:	
Test Mode	:	

	Freq				Contraction of the second s	Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		3
1	42.15	25.01	13.71	1.11	27.17	12.66	40.00	-27.34	VERTICAL	QP
2	67.44	25.91	12.29	1.38	27.14	12.44	40.00	-27.56	VERTICAL	QP
3	164.33	25.58	13.48	2.37	26.79	14.64	43.50	-28.86	VERTICAL	QP
4	397.63	25.74	15.65	3.93	27.32	18.00	46.00	-28.00	VERTICAL	QP
5	520.89	25.59	18.20	4.55	28.01	20.33	46.00	-25.67	VERTICAL	QP
6	779.61	26.22	22.30	6.11	28.05	26.58	46.00	-19.42	VERTICAL	QP



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Report No.: GZCR211002122002 Page: 34 of 55

7.9 Radiated Spurious Emissions (Above 1GHz)

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Distance:	3 m
Limit:	

Frequency (MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

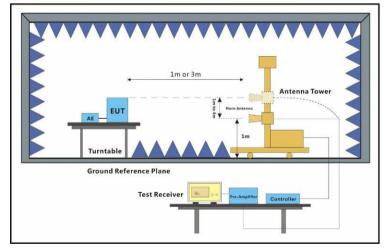
7.9.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	22.9 °C	Humidity:	55.5 % RH	Atmospheric Pressure:	1018	mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.9.3 Test Setup Diagram





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Report No.: GZCR211002122002 Page: 35 of 55

7.9.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the 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 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.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

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.

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 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

The red line show in graphic is the limit in standard used in this section.



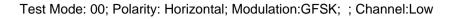
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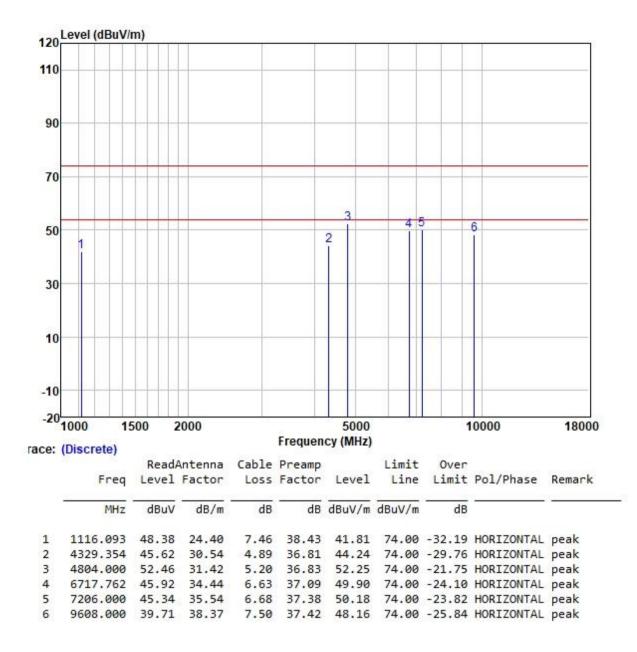
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Report No.: GZCR211002122002 Page: 37 of 55

Level (dBuV/m) 120 110 90 70 3 6 50 2 30 10 -10 -20 1000 1500 2000 5000 10000 18000 Frequency (MHz) race: (Discrete) Cable Preamp ReadAntenna Limit Over Level Factor Loss Factor Line Limit Pol/Phase Remark Freq Level MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 1109.660 47.37 24.39 7.51 38.45 40.82 74.00 -33.18 VERTICAL peak 1 peak 2 4379.699 45.76 30.64 4.88 36.81 44.47 74.00 -29.53 VERTICAL 3 4804.000 57.15 31.42 5.20 36.83 56.94 74.00 -17.06 VERTICAL peak 4 6874.906 45.13 34.82 6.71 37.16 49.50 74.00 -24.50 VERTICAL peak 5 7206.000 47.63 35.54 6.68 37.38 52.47 74.00 -21.53 VERTICAL peak 6 9608.000 40.16 38.37 7.50 37.42 48.61 74.00 -25.39 VERTICAL peak

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low	

	Frequency (MHz)	PK Level (dBuV/m)	AV Level (dBuV/m)**	Convert Factor (dB)*	AV Limit Line (dBuV/m)	Over limit (dB)			
	4804.000	56.94	45.01	-11.93	54	-8.99			
*Demarky Diagon refer to Appendix 10.1.1.1 for dataile									

Remark: Please refer to Appendix 10 1.1.1 for details.

**Remark: According to clause 7.5 of ANSI C63.10-2013, the average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor.



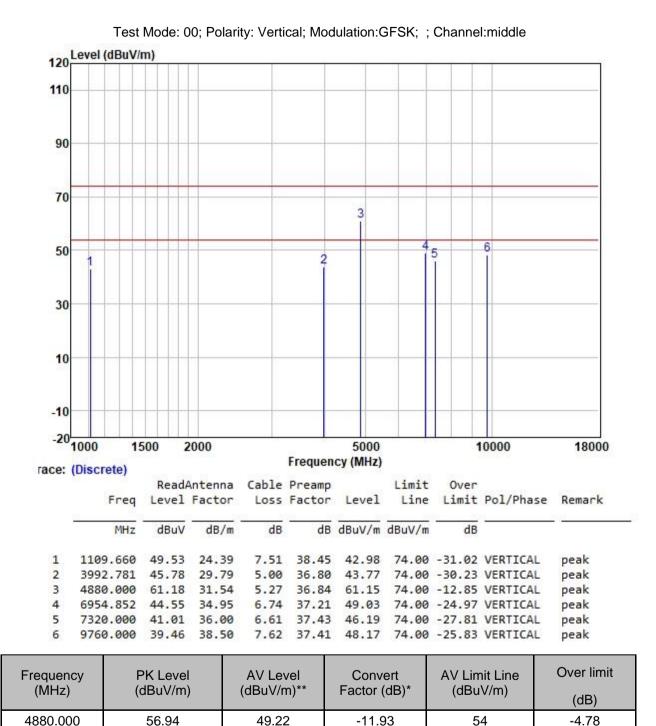
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Report No.: GZCR211002122002 Page: 38 of 55



*Remark: Please refer to Appendix 10 1.1.1 for details.

**Remark: According to clause 7.5 of ANSI C63.10-2013, the average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor.



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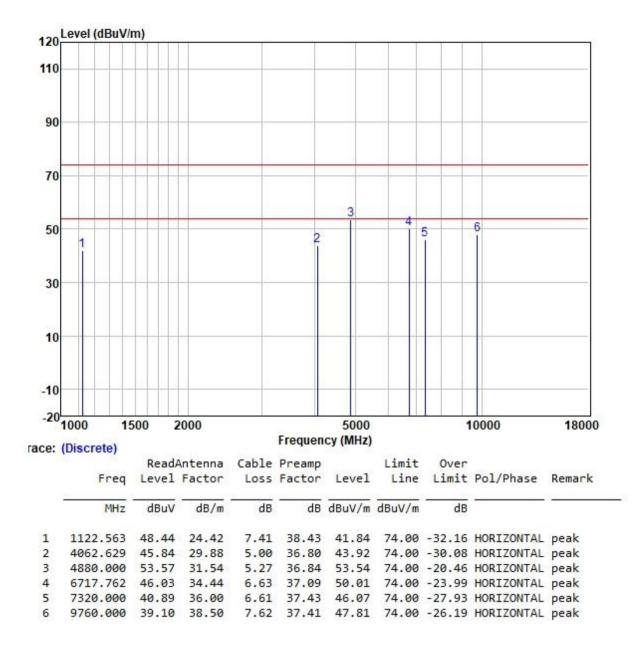
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Report No.: GZCR211002122002 Page: 39 of 55







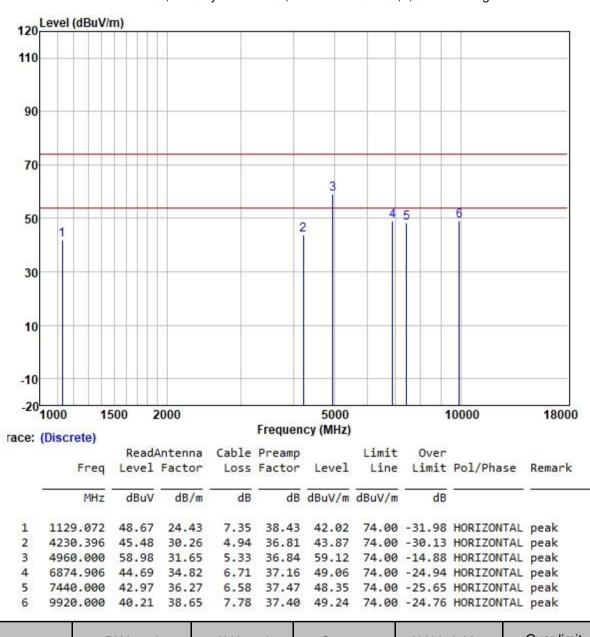
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Report No.: GZCR211002122002 Page: 40 of 55



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High

Frequency	PK Level	AV Level	Convert	AV Limit Line	Over limit
(MHz)	(dBuV/m)	(dBuV/m)**	Factor (dB)*	(dBuV/m)	(dB)
4960.000	59.12	47.19	-11.93	54	-6.81

*Remark: Please refer to Appendix 10 1.1.1 for details.

**Remark: According to clause 7.5 of ANSI C63.10-2013, the average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor.



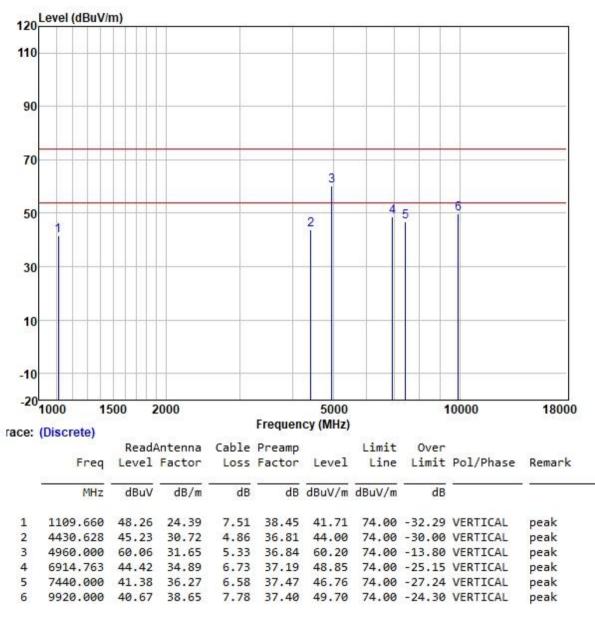
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Report No.: GZCR211002122002 Page: 41 of 55



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High

lease refer to Appendix 10 1.1.1 for details.

**Remark: According to clause 7.5 of ANSI C63.10-2013, the average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor.



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Report No.: GZCR211002122002 Page: 42 of 55

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for GZCR211002122002



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Report No.: GZCR211002122002 Page: 43 of 55

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for GZCR2110021220MD



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Report No.: GZCR211002122002 Page: 44 of 55

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

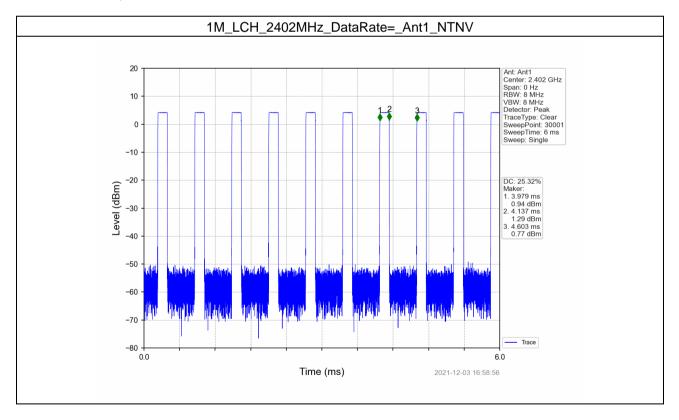
	Ant1										
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
	1M SISO	2402	0.158	0.624	25.32	-11.93	0.15				
1M		2440	0.158	0.624	25.32	-11.93	0.16				
		2480	0.158	0.624	25.32	-11.93	0.16				
*Remark: According to clause 7.5 of ANSI C63.10-2013, Duty Cycle Correction Factor (dB)=20log(I Cycle (%))											

1.1.2 Test Graph

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aboratory

Guanozho





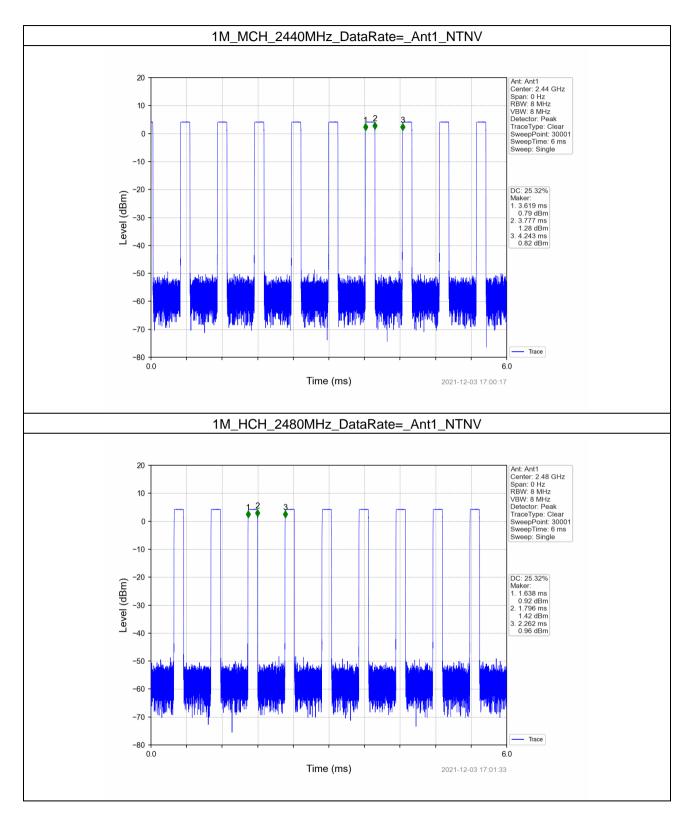
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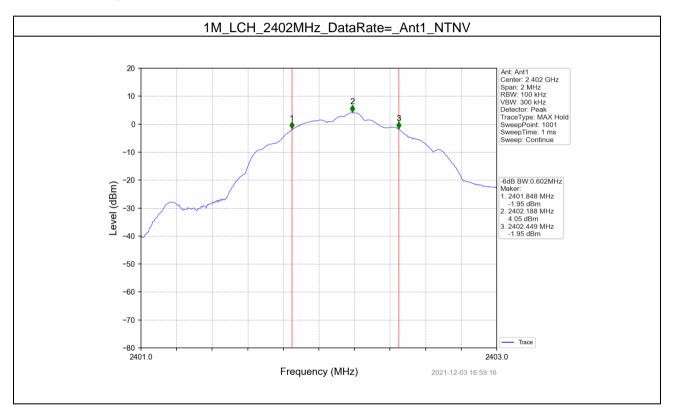


Report No.: GZCR211002122002 Page: 46 of 55

- 2.1 6dB BW
- 2.1.1 Test Result

Mada	ТΧ	Frequency	Frequency		6dB Bandwidth (MHz)		
Mode	Туре	(MHz)	Ant	Result	Limit	Verdict	
		2402	1	0.602	>=0.5	Pass	
1M	SISO	2440	1	0.605	>=0.5	Pass	
		2480	1	0.601	>=0.5	Pass	

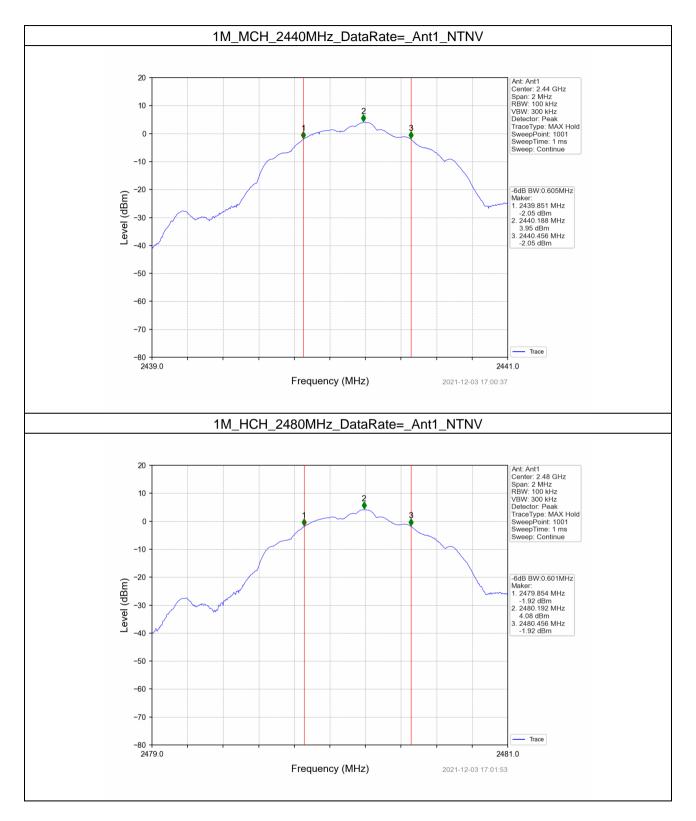
2.1.2 Test Graph







Report No.: GZCR211002122002 Page: 47 of 55



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Report No.: GZCR211002122002 Page: 48 of 55

3. Maximum Conducted Output Power

- 3.1 Power
- 3.1.1 Test Result

Mada	ΤХ	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdiet				
Mode	Туре	(MHz)	Ant1	Limit	Verdict				
		2402	3.19	<=30	Pass				
1M	SISO	2440	3.10	<=30	Pass				
		2480	3.22	<=30	Pass				
Note1: Ant	Note1: Antenna Gain: Ant1: 0.00dBi:								

ole I. Antenna Gain. Antr. 0.00



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Report No.: GZCR211002122002 Page: 49 of 55

4. Maximum Power Spectral Density

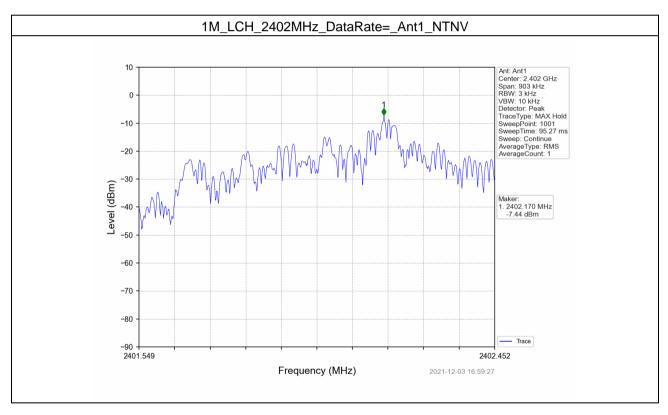
4.1 PSD

4.1.1 Test Result

Mada	ТХ	Frequency	Maximum PS	D (dBm/3kHz)	\/ardiat
Mode	Туре	(MHz)	Ant1	Limit	Verdict
		2402	-7.44	<=8	Pass
1M	SISO	2440	-8.75	<=8	Pass
	-	2480	-7.51	<=8	Pass

ote1: Antenna Gain: Ant1: 0.000Bl

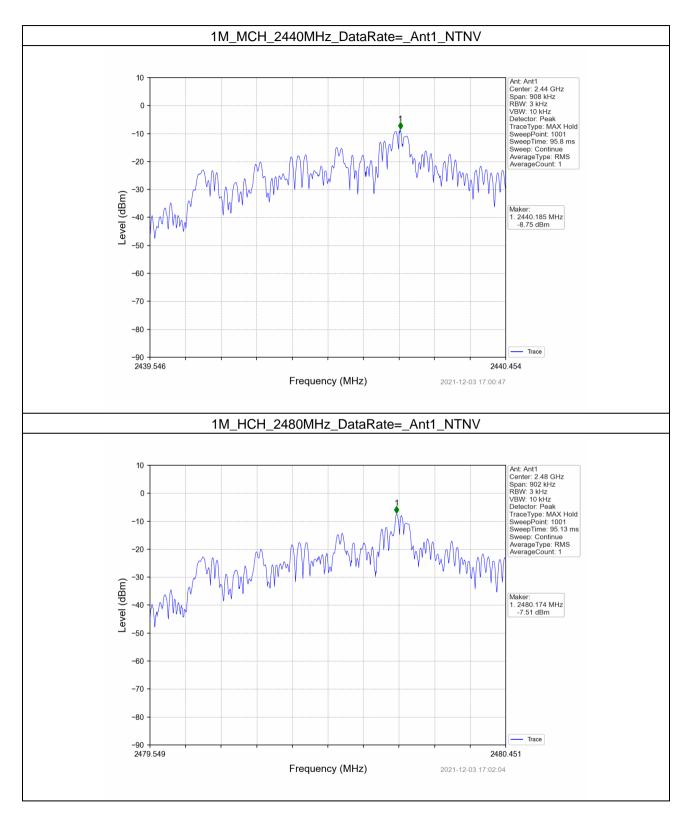
4.1.2 Test Graph







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Report No.: GZCR211002122002 Page: 51 of 55

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

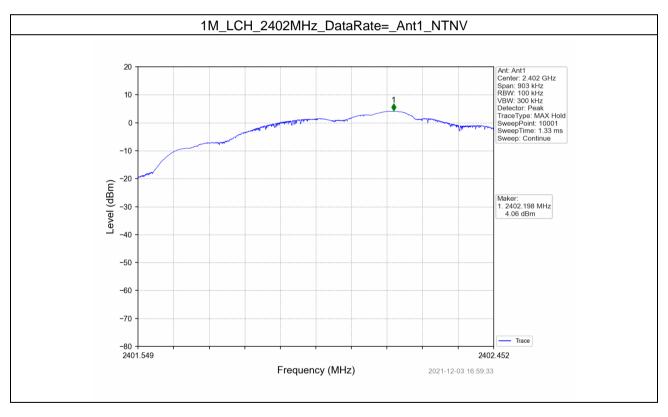
5.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Ant	Level of Reference (dBm)
	1M SISO	2402	1	4.06
1M		2440	1	3.95
		2480	1	4.09

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

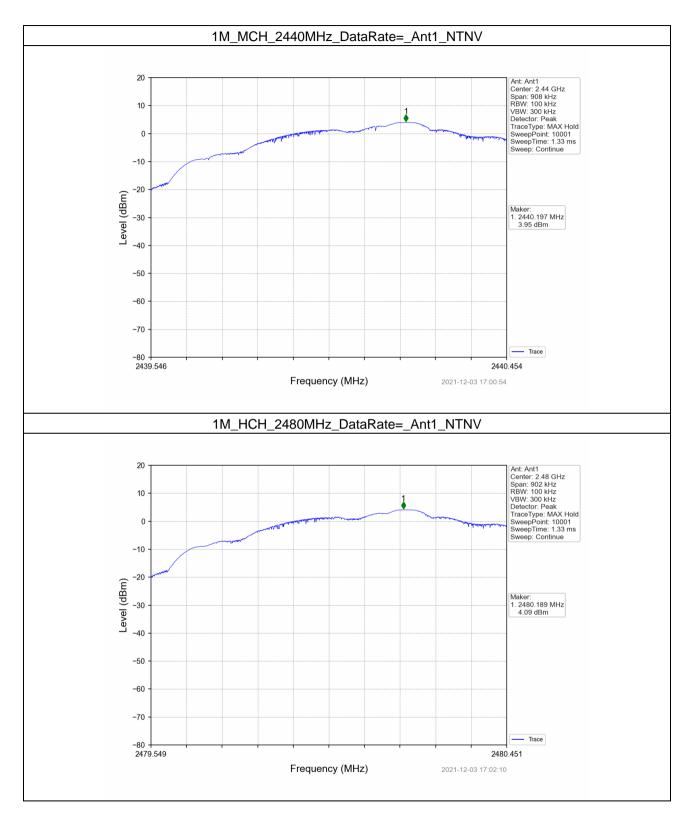
5.1.2 Test Graph







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Report No.: GZCR211002122002 Page: 53 of 55

5.2 CSE

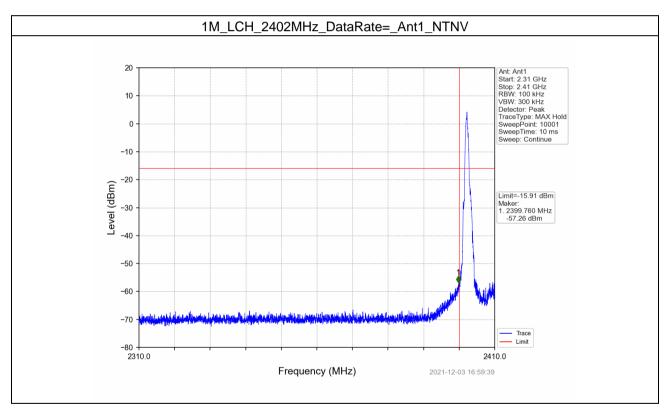
5.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict		
		2402	1	4.09	-15.91	Pass		
1M	SISO	2440	1	4.09	-15.91	Pass		
		2480	1	4.09	-15.91	Pass		
Nata 1. Data	Note1, Defer to ECC Det 15.247 (d) and ANEL C62.10.2012, the abarnel centains the maximum DSD lavel							

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

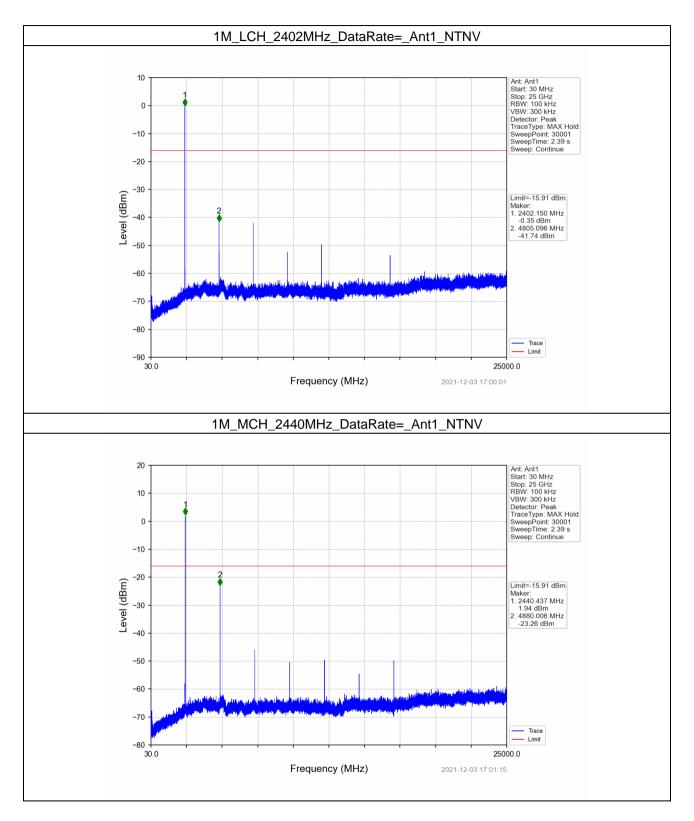
5.2.2 Test Graph







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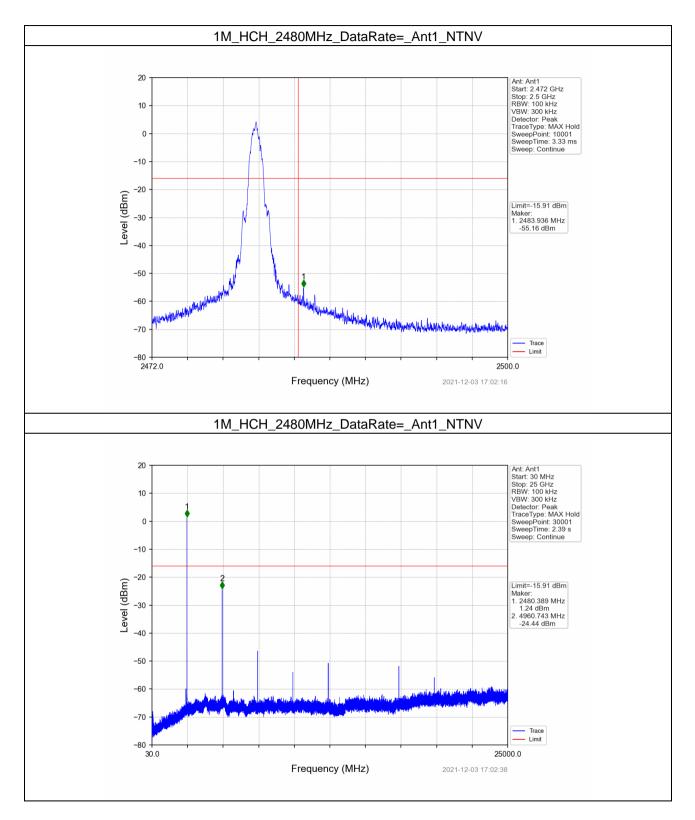
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Report No.: GZCR211002122002 Page: 55 of 55



- End of the Report -



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