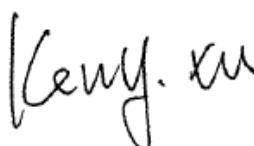


TEST REPORT

Application No.:	SZCR2406002116AT
Applicant:	94275906 QUEBEC INC.
Address of Applicant:	1288 Avenue des Canadiens de Montreal, unit 3414, Montreal, Quebec, H3B 3B3, Canada
Manufacturer:	94275906 QUÉBEC INC.
Address of Manufacturer:	1288 Avenue des Canadiens de Montreal, unit 3414, H3B3B3, Montreal, Quebec, Canada
Factory:	EVERWIN TOYS(DONGGUAN) CO., LTD
Address of Factory:	Xiekeng Village, Qingxi Town, Dongguan City, Guangdong Province, China
Equipment Under Test (EUT):	
EUT Name:	Tokidos PlayCubes
Model No.:	T001
Trade Mark:	Tokidos
FCC ID:	2BGNQ-2024001
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2024-06-04
Date of Test:	2024-06-21 to 2024-07-17
Date of Issue:	2024-08-09
Test Result:	Pass*

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



Keny Xu

EMC Laboratory Manager

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & EEC Laboratory

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600211602

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-08-09		Original

Authorized for issue by:			
		Gebin Sun	
		Gebin Sun/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	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	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Average Output Power		ANSI C63.10 (2013) Section 11.9.2.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

Model No.: T001

The model T001 contains five play cubes, which were identical on electrical circuit design, layout, components used and internal wiring, only difference is in one of the play cubes with NFC function, and the remaining four play cubes without NFC function. Only the play cube with NFC function were tested.

This report is prepared for an FCC class II permissive change to install the granted module(FCC ID: 2BGNQ-2024001, Granted on :08/08/2024) into a host product, and change information as below:

1. The antenna was changed.
2. the RF power of the host product was reduced by software.
3. Classic Bluetooth function was disabled by software.

Therefore in this report the section 2 items were fully retested on model T001 and shown the data in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery DC3.7V, 2000mAh, Charge by DC 5V
Cable(s):	USB cable:115cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Data Rate:	Support 1Mb/s
Antenna Type:	FPC Antenna
Antenna Gain:	3.22dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF cable	supplied by SGS	N/A(cable loss:0.6dB)	REF. No. SEL000089

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz); ± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz); ± 4.8dB (18-40GHz)
Conducted Average Output Power	± 0.75dB

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
				2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06
				2024-07-06	2025-07-05

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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
				2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
				2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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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:

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

EUT Antenna:

The antenna connector is a IPEX type that comply with standard requirement. The best case gain of the antenna is 3.22dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 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

Measurement Distance: 3m

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 59.4 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

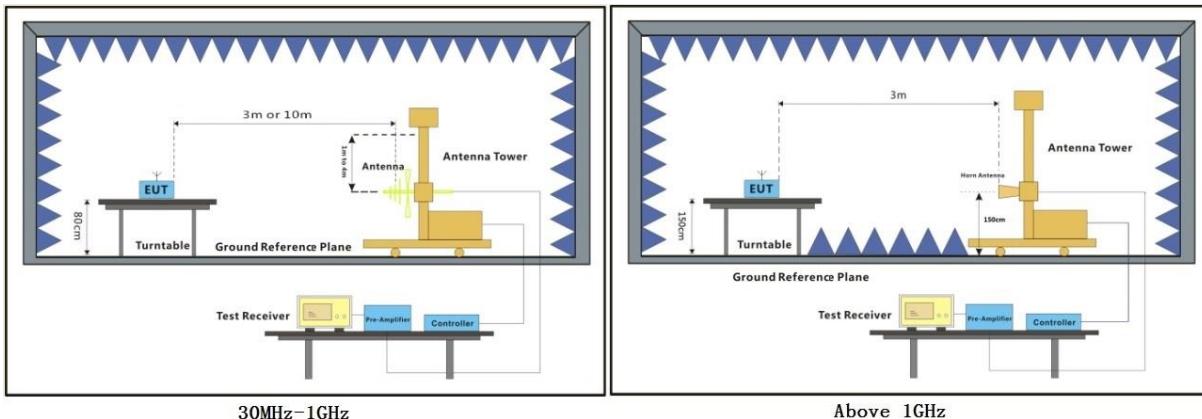
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- 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.



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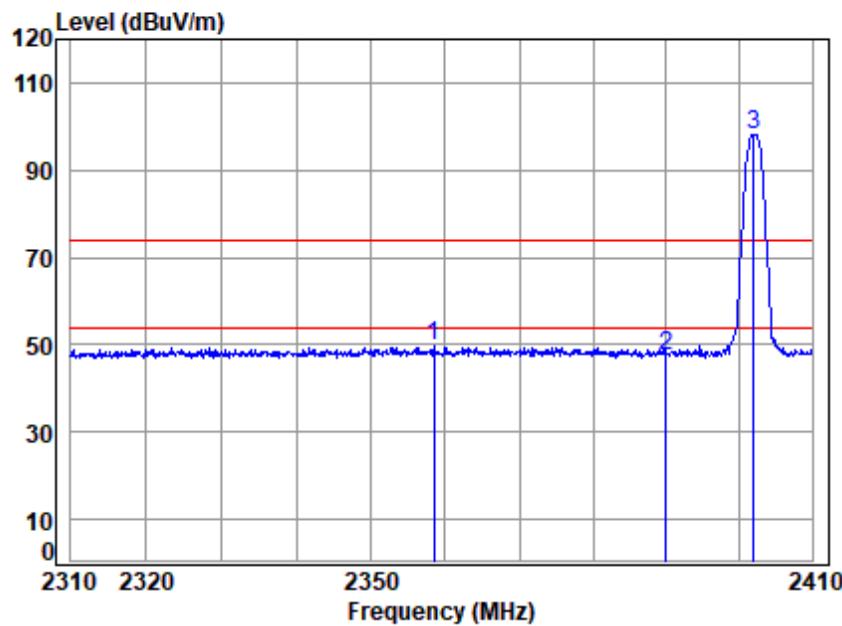
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



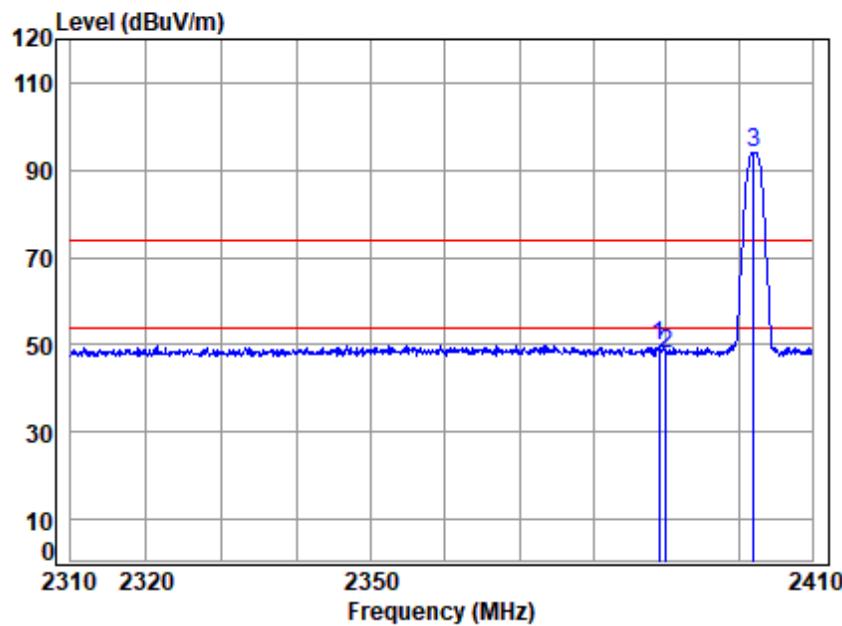
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02116AT/02117AT
Mode : 2402 Band edge
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1 2358.470	15.79	29.10	52.12	56.87	49.64	74.00	-24.36	peak
2 2390.000	15.81	29.10	52.13	54.54	47.32	74.00	-26.68	peak
3 p 2402.000	15.82	29.09	52.13	105.53	98.31	74.00	24.31	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 02116AT/02117AT
Mode : 2402 Band edge
Note : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 2388.951	15.81	29.10	52.13	57.09	49.87	74.00	-24.13	peak
2 2390.000	15.81	29.10	52.13	55.06	47.84	74.00	-26.16	peak
3 p 2402.000	15.82	29.09	52.13	101.42	94.20	74.00	20.20	peak

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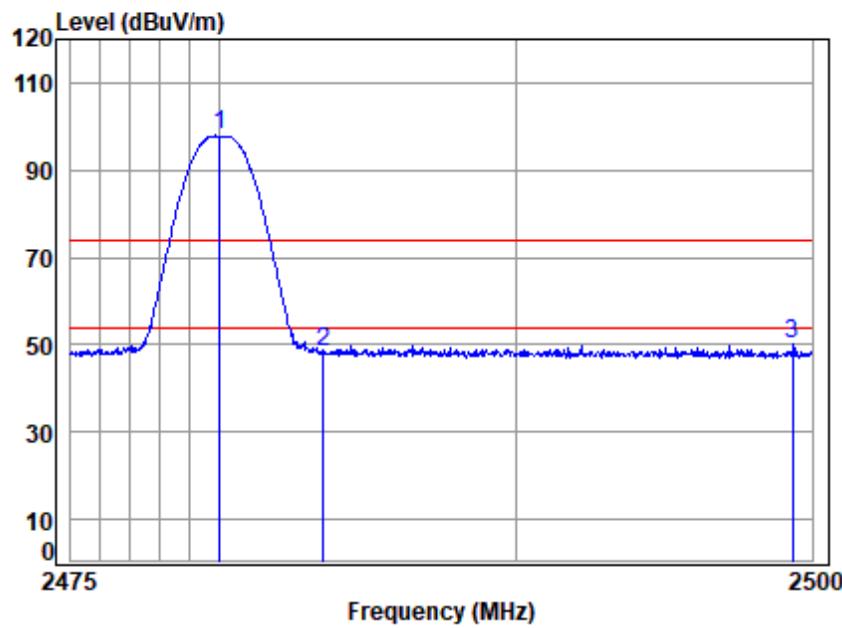
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02116AT/02117AT
Mode : 2480 Band edge
Note : BLE 1M

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	15.86	28.90	52.14	105.29	97.91	74.00	23.91 peak
2 2483.500	15.86	28.90	52.14	55.60	48.22	74.00	-25.78 peak
3 2499.347	15.87	28.90	52.14	57.49	50.12	74.00	-23.88 peak

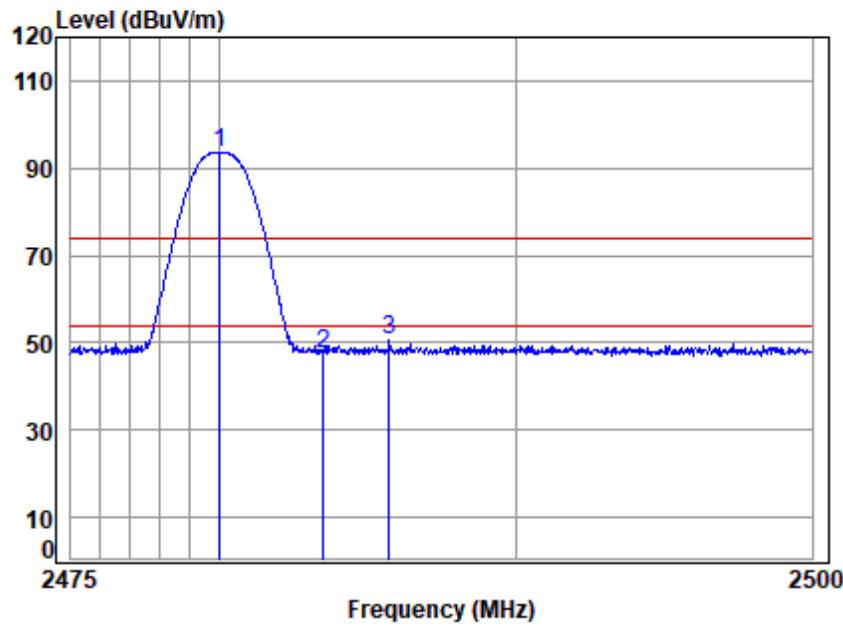
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02116AT/02117AT
Mode : 2480 Band edge
Note : BLE 1M

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	15.86	28.90	52.14	101.12	93.74	74.00	19.74 peak
2 2483.500	15.86	28.90	52.14	54.98	47.60	74.00	-26.40 peak
3 2485.719	15.86	28.90	52.14	57.89	50.51	74.00	-23.49 peak

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7.2 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

Measurement Distance: 3m

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
960-1000	500	3

7.2.1 E.U.T. Operation

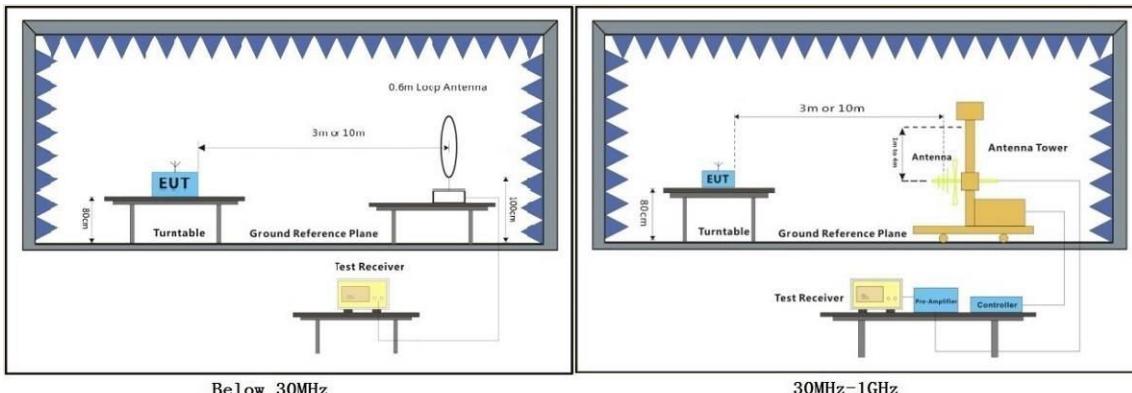
Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



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7.2.4 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 quasi-peak 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, 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.



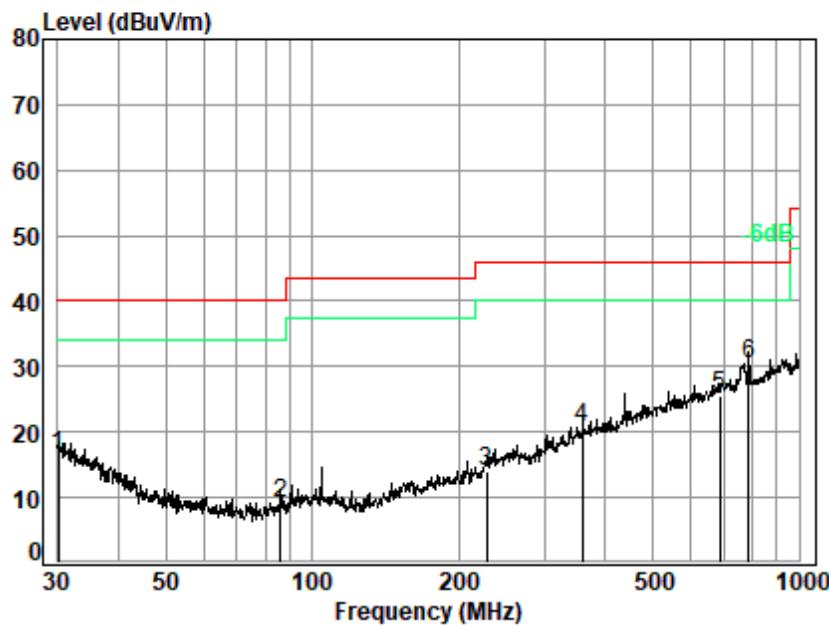
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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02116AT/02117AT

Test Mode: 00

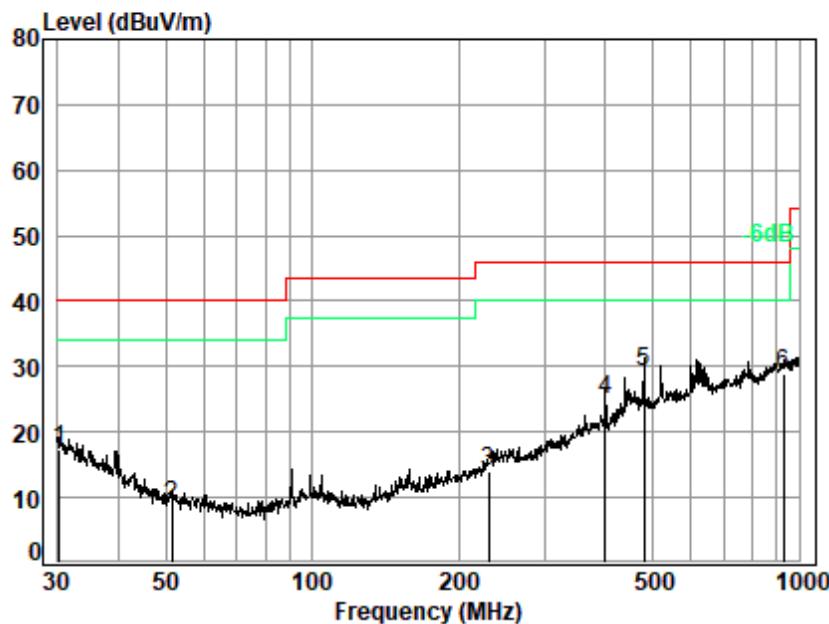
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB/m	dBuV	dBuV/m	dBuV/m
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1	30.11	21.15	0.64	27.79	22.45	16.45	40.00	-23.55 QP
2	86.20	11.19	1.10	27.63	24.48	9.14	40.00	-30.86 QP
3	227.69	16.12	1.85	27.05	23.08	14.00	46.00	-32.00 QP
4	359.19	20.20	2.39	26.99	25.02	20.62	46.00	-25.38 QP
5	687.15	25.71	3.47	27.76	24.10	25.52	46.00	-20.48 QP
6 q	787.85	27.15	3.79	27.51	26.87	30.30	46.00	-15.70 QP

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Test Mode: 00; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 02116AT/02117AT
 Test Mode: 00

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	30.21	21.10	0.64	27.79	23.35	17.30	40.00	-22.70	QP
2	51.48	12.53	0.84	27.73	23.22	8.86	40.00	-31.14	QP
3	230.10	16.46	1.86	27.04	22.69	13.97	46.00	-32.03	QP
4	400.43	20.60	2.55	27.16	28.81	24.80	46.00	-21.20	QP
5 q	480.53	22.75	2.82	27.48	31.18	29.27	46.00	-16.73	QP
6	929.01	28.16	4.17	26.56	23.25	29.02	46.00	-16.98	QP

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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.3.1 E.U.T. Operation

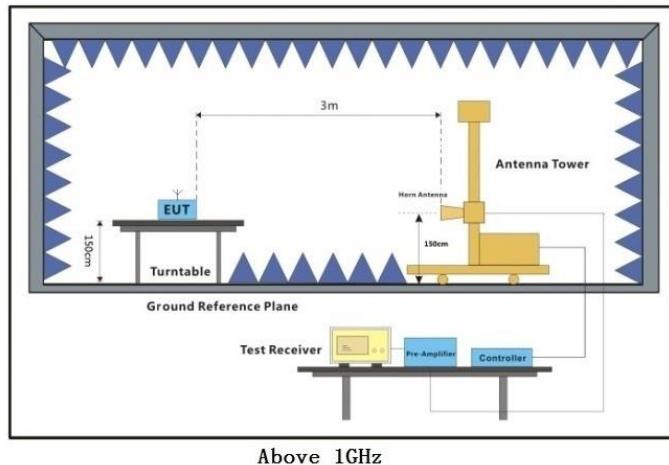
Operating Environment:

Temperature: 21.7 °C Humidity: 58.7 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



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7.3.4 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 (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 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp 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. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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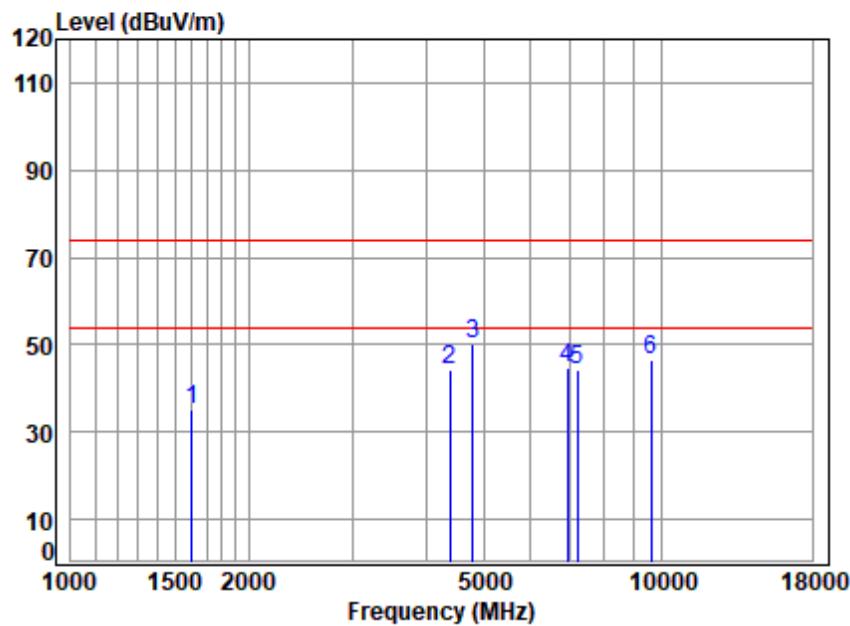
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



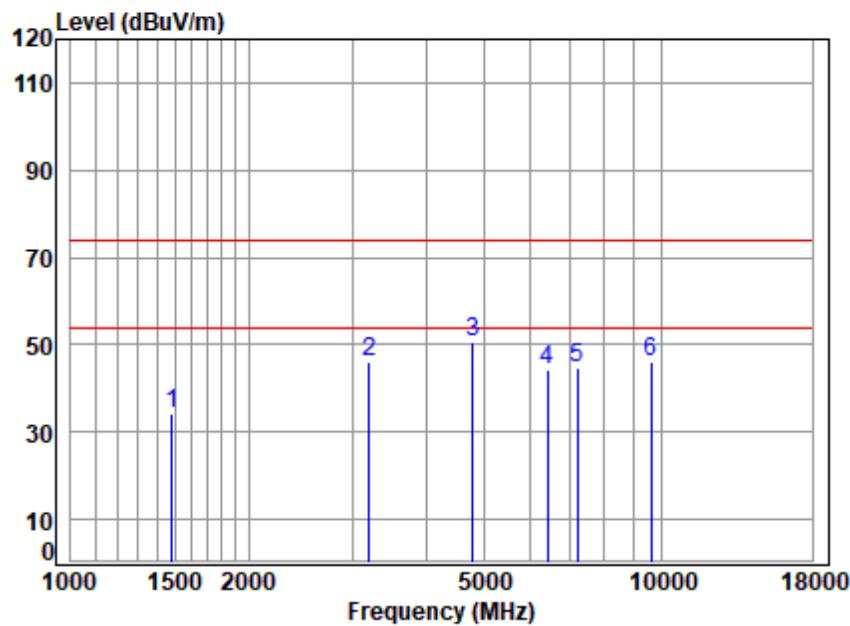
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02116AT/02117AT
 Mode : 2402 TX RSE
 : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1601.804	4.79	26.78	61.69	65.47	35.35	74.00	-38.65	peak
2	4392.376	8.00	34.74	61.53	63.18	44.39	74.00	-29.61	peak
3 p	4804.000	8.00	34.32	61.88	69.70	50.14	74.00	-23.86	peak
4	6934.778	9.48	35.74	62.19	61.64	44.67	74.00	-29.33	peak
5	7206.000	9.32	35.70	62.04	61.24	44.22	74.00	-29.78	peak
6	9608.000	11.41	37.42	62.15	59.84	46.52	74.00	-27.48	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 02116AT/02117AT
Mode : 2402 TX RSE
: BLE 1M

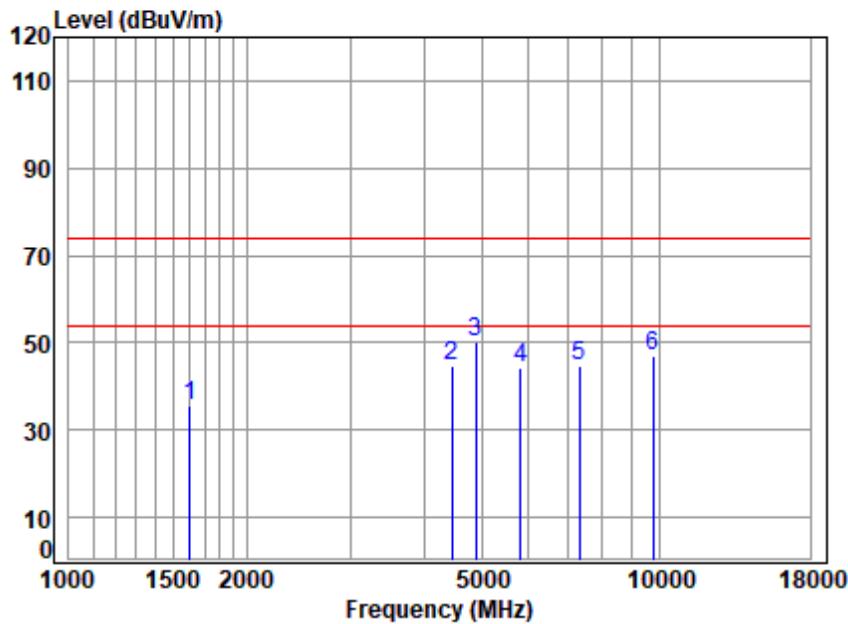
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1481.553	4.57	26.28	61.65	65.11	34.31	74.00	-39.69	peak
2	3205.345	6.78	32.81	61.36	67.67	45.90	74.00	-28.10	peak
3 p	4804.000	8.00	34.32	61.88	70.24	50.68	74.00	-23.32	peak
4	6414.167	9.20	35.29	62.49	62.15	44.15	74.00	-29.85	peak
5	7206.000	9.32	35.70	62.04	61.73	44.71	74.00	-29.29	peak
6	9608.000	11.41	37.42	62.15	59.33	46.01	74.00	-27.99	peak

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02116AT/02117AT
 Mode : 2440 TX RSE
 : BLE 1M

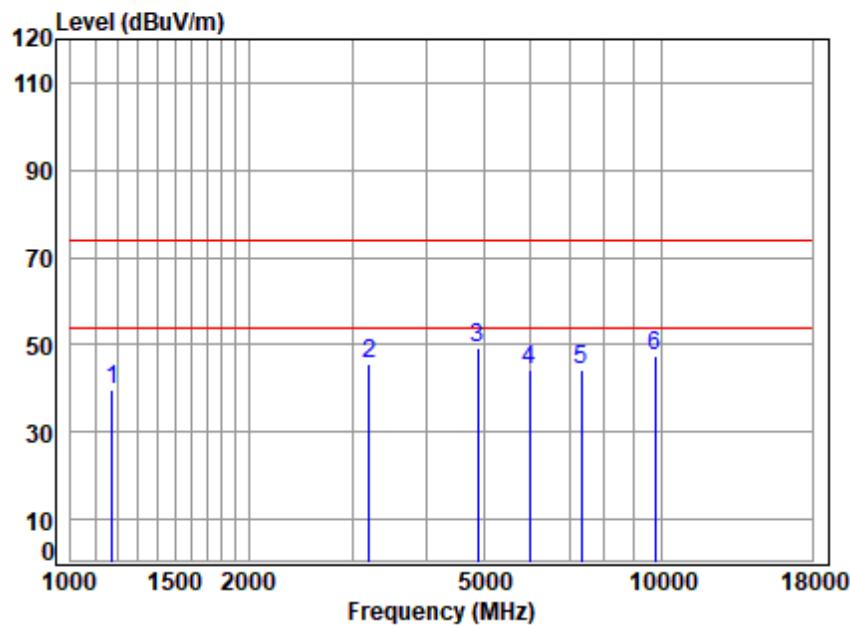
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1601.804	4.79	26.78	61.69	65.89	35.77	74.00	-38.23	peak
2	4456.315	7.92	34.12	61.59	64.20	44.65	74.00	-29.35	peak
3 p	4880.000	8.03	34.62	61.94	69.48	50.19	74.00	-23.81	peak
4	5813.812	9.44	34.33	62.63	63.34	44.48	74.00	-29.52	peak
5	7320.000	9.21	35.70	61.98	61.79	44.72	74.00	-29.28	peak
6	9760.000	11.32	37.38	62.19	60.48	46.99	74.00	-27.01	peak

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



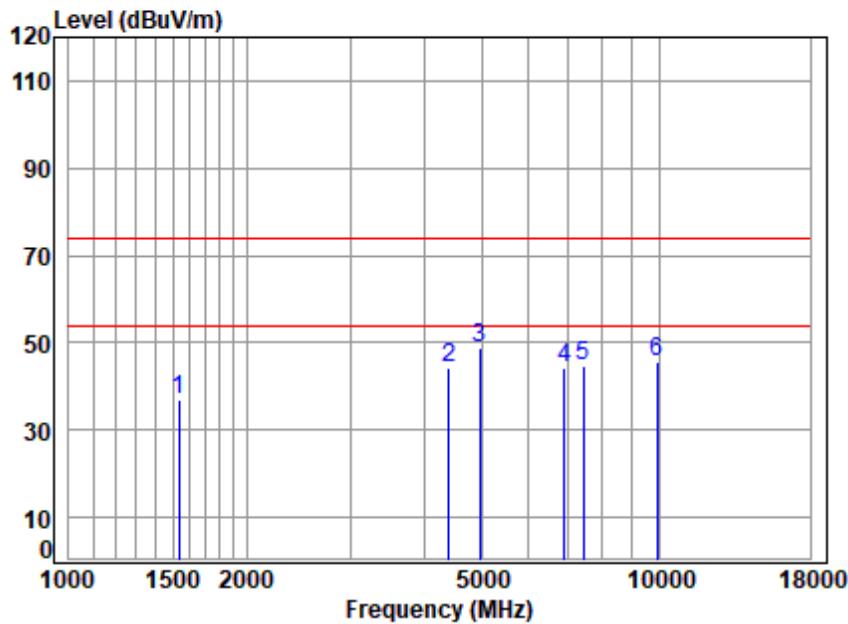
Site : chamber
Condition: 3m VERTICAL
Job No : 02116AT/02117AT
Mode : 2440 TX RSE
: BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1175.697	4.56	24.16	61.54	72.34	39.52	74.00	-34.48 peak
2 3205.345	6.78	32.81	61.36	67.45	45.68	74.00	-28.32 peak
3 p 4880.000	8.03	34.62	61.94	68.40	49.11	74.00	-24.89 peak
4 5984.305	9.51	34.84	62.74	62.73	44.34	74.00	-29.66 peak
5 7320.000	9.21	35.70	61.98	61.16	44.09	74.00	-29.91 peak
6 9760.000	11.32	37.38	62.19	60.74	47.25	74.00	-26.75 peak

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



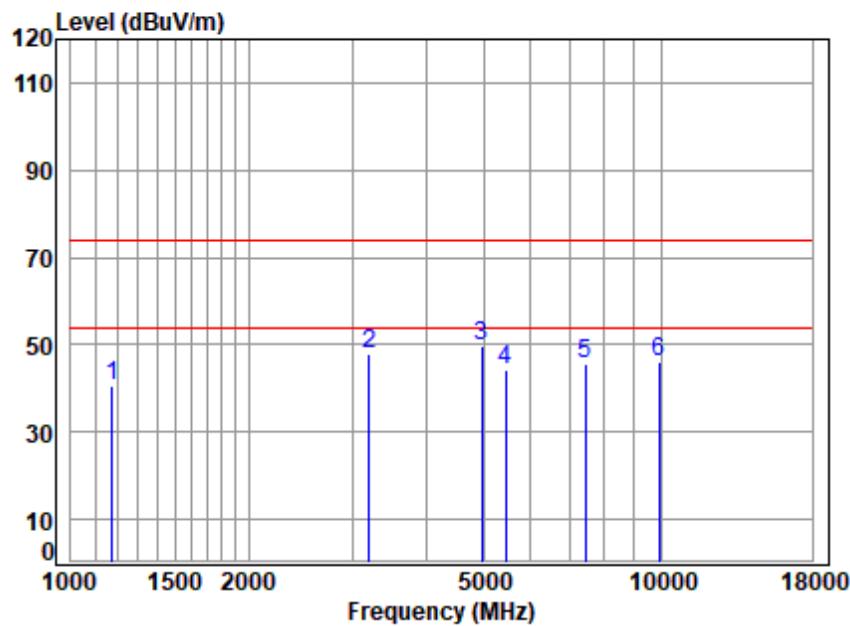
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02116AT/02117AT
 Mode : 2480 TX RSE
 : BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	
1	1538.281	4.65	26.95	61.67	67.22	37.15	74.00	-36.85	peak
2	4405.090	7.99	34.74	61.55	63.18	44.36	74.00	-29.64	peak
3	p 4960.000	8.06	34.56	62.01	68.29	48.90	74.00	-25.10	peak
4	6914.763	9.47	35.66	62.20	61.33	44.26	74.00	-29.74	peak
5	7440.000	9.09	35.96	61.92	61.81	44.94	74.00	-29.06	peak
6	9920.000	11.23	37.30	62.24	59.50	45.79	74.00	-28.21	peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 02116AT/02117AT
Mode : 2480 TX RSE
: BLE 1M

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1175.697	4.56	24.16	61.54	73.35	40.53	74.00	-33.47 peak
2 3205.345	6.78	32.81	61.36	69.66	47.89	74.00	-26.11 peak
3 p 4960.000	8.06	34.56	62.01	69.08	49.69	74.00	-24.31 peak
4 5455.631	9.20	34.68	62.38	62.68	44.18	74.00	-29.82 peak
5 7440.000	9.09	35.96	61.92	62.46	45.59	74.00	-28.41 peak
6 9920.000	11.23	37.30	62.24	59.82	46.11	74.00	-27.89 peak

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7.4 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2.3

Limit:

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

7.4.1 E.U.T. Operation

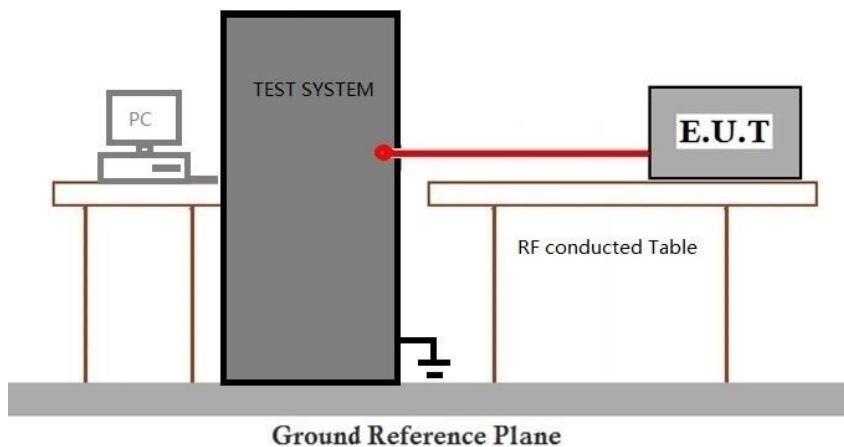
Operating Environment:

Temperature: 22.0 °C

Humidity: 43.9 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2406002116AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for SZCR2406002116AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.095	3.125	67.04	1.74	16.78
		2440	2.096	3.125	67.07	1.73	16.75
		2480	2.095	3.125	67.04	1.74	16.77

1.2 Test Graph

1.2.1 Ant1



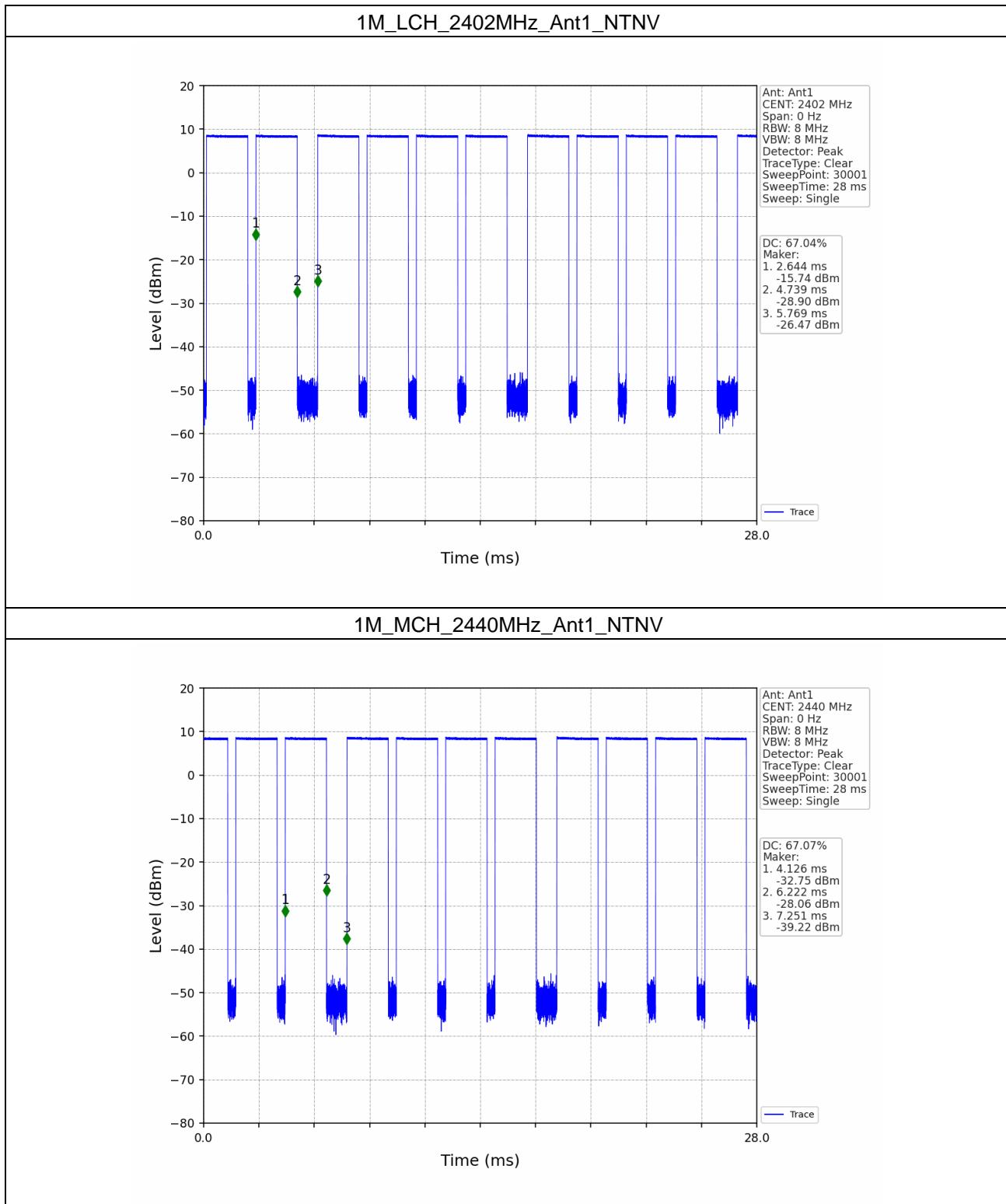
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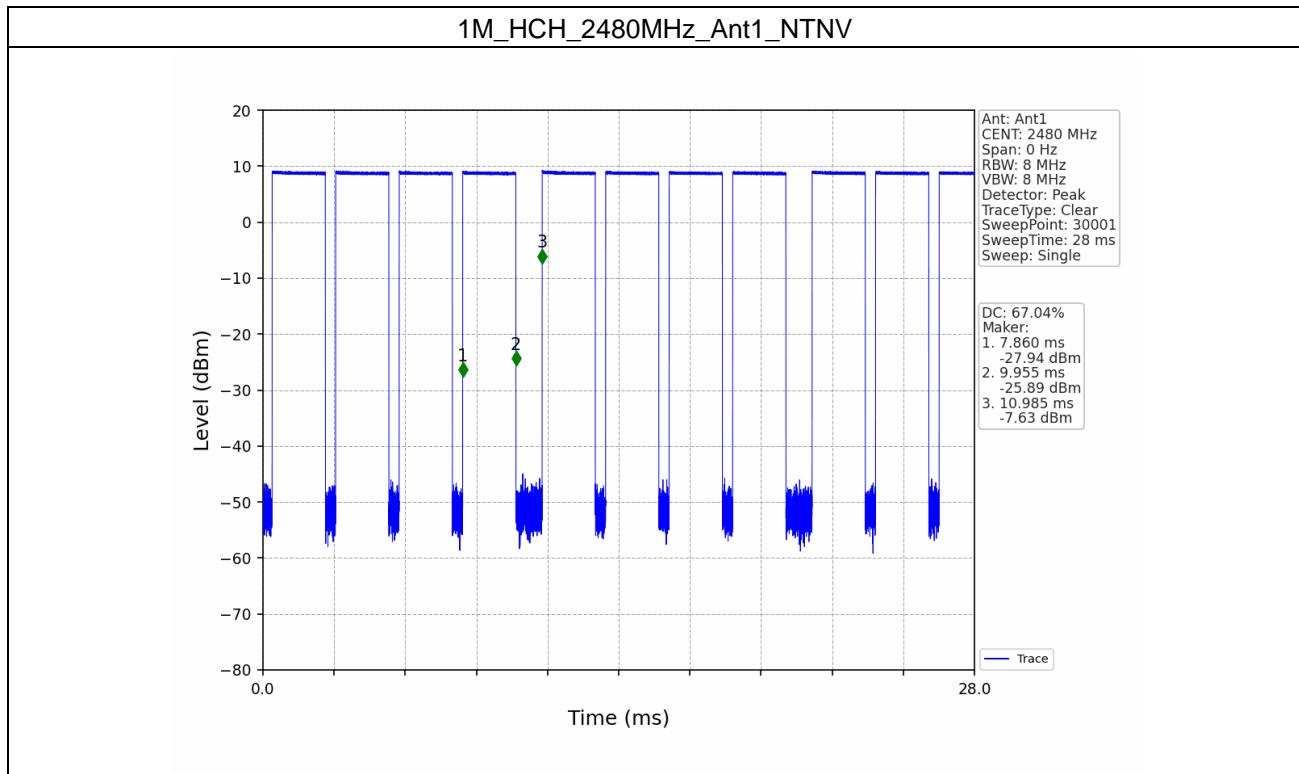
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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.59	<=30	Pass
		2440	3.02	<=30	Pass
		2480	2.86	<=30	Pass

- End of the Report -



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com