

Report No.: SZCR210502126202

Page: 1 of 75

### TEST REPORT

Application No.: SZCR2105021262AT

**Applicant:** SZ DJI Osmo Technology Co.,Ltd.

Address of Applicant: 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui

Road North, Guangming Street, Guangming District, Shenzhen, China

Manufacturer: SZ DJI Osmo Technology Co.,Ltd.

Address of Manufacturer: 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui

Road North, Guangming Street, Guangming District, Shenzhen, China

**Equipment Under Test (EUT):** 

EUT Name: DJI OM 5
Model No.: OE100
Trade Mark: DJI

**FCC ID:** 2ANDR-OE1002105

Standard(s): 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2021-05-28

**Date of Test:** 2021-06-01 to 2021-06-07

**Date of Issue:** 2021-06-11

Test Result: Pass\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZCR210502126202

Page: 2 of 75

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2021-06-11		Original				

Authorized for issue by:			
	Harry Use		
	Harry Wu/Project Engineer	_	
	Exic Fu		
	Eric Fu/Reviewer	_	



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Report No.: SZCR210502126202

Page: 3 of 75

### **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	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	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		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, 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	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	

Emission Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			



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Report No.: SZCR210502126202

Page: 4 of 75

### **Contents**

			Page
1	COV	/ER PAGE	1
2	TES	T SUMMARY	3
3	CON	NTENTS	4
4	GEN	NERAL INFORMATION	
	4.1	DETAILS OF E.U.T.	6
	4.2	DESCRIPTION OF SUPPORT UNITS	
	4.3	MEASUREMENT UNCERTAINTY	
	4.4	TEST LOCATION	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQU	JIPMENT LIST	8
6	RAD	DIO SPECTRUM TECHNICAL REQUIREMENT	11
	6.1	ANTENNA REQUIREMENT	11
	6.1.		
	6.1.2	•	
_			
7	KAL	DIO SPECTRUM MATTER TEST RESULTS	
	7.1	CONDUCTED PEAK OUTPUT POWER	12
	<i>7.1.</i> 1	1 E.U.T. Operation	12
	7.1.2	<b>-</b>	
	7.1.3		
	7.1.4		
	7.2	MINIMUM 6DB BANDWIDTH	
	7.2.		
	7.2.2	<b>-</b>	
	7.2.3		
	7.2.4		
	7.3	POWER SPECTRUM DENSITY	
	7.3.1		
	7.3.2 7.3.3	,	
	7.3.4 7.3.4	, ,	
	7.5	CONDUCTED BAND EDGES MEASUREMENT	
	7.4.		
	7.4.2	•	
	7.4.3	•	
	7.4.4	, ,	
	7.5	CONDUCTED SPURIOUS EMISSIONS	
	7.5.		
	7.5.2	•	
	7.5.3	•	
		. •	



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Report No.: SZCR210502126202

Page: 5 of 75

	7.5.4	Measurement Procedure and Data	17
7	.6 F	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	18
	7.6.1	E.U.T. Operation	18
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7	.7 F	RADIATED SPURIOUS EMISSIONS BELOW 1GHz	28
	7.7.1	E.U.T. Operation	
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	
7	.8 F	RADIATED SPURIOUS EMISSIONS ABOVE 1GHz	
	7.8.1	E.U.T. Operation	34
	7.8.2	Test Mode Description	
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	
8	EMISS	SION TEST RESULTS	48
8	.1 C	CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz)	48
	8.1.1	E.U.T. Operation	
	8.1.2	Test Mode Description	
	8.1.3	Test Setup Diagram	
	8.1.4	Measurement Procedure and Data	
9	TEST	SETUP PHOTO	52
40		PONCTRUCTIONAL RETAILS (FUT RUCTOS)	
10	EUIC	ONSTRUCTIONAL DETAILS (EUT PHOTOS)	52
11	ΔPPFI	NDIX	53



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Report No.: SZCR210502126202

Page: 6 of 75

#### **General Information**

#### 4.1 Details of E.U.T.

Power supply:	DC 7.74V, 1000mAh, Rechargeable Li-ion Battery (to be charged from Type C port)
Cable(s):	Type C Cable: 100cm, Unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No.SEA05D08A

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
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	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR 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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Report No.: SZCR210502126202

Page: 7 of 75

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

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

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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### 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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Report No.: SZCR210502126202

Page: 8 of 75

### 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	<b>Cal Due Date</b>		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12		
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25		

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07	

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Power Spectrum Densit	y				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09



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Report No.: SZCR210502126202

Page: 9 of 75

Conducted Band Edges	Measurement				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF906	SHEM009-2	2020-07-27	2022-07-26
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23



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Report No.: SZCR210502126202

10 of 75 Page:

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Spurious Emis	Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31	
Horn Antenna	Rohde&Schwarz	HF906	SHEM009-2	2020-07-27	2022-07-26	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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Report No.: SZCR210502126202

Page: 11 of 75

#### Radio Spectrum Technical Requirement 6

#### 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.

#### 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 0dBi.

#### Antenna location:

Please refer to Internal photos.





Report No.: SZCR210502126202

Page: 12 of 75

### 7 Radio Spectrum Matter Test Results

#### 7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1

#### 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

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

1.1.2 Test IV	1.1.2 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.				
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				

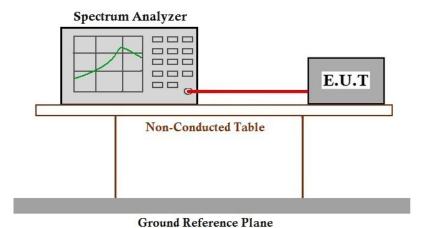




Report No.: SZCR210502126202

Page: 13 of 75

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR210502126202

Page: 14 of 75

#### 7.2 Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

#### 7.2.1 E.U.T. Operation

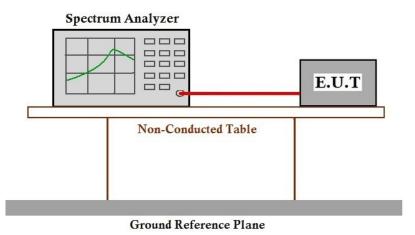
Operating Environment:

Temperature: 24.4 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

	The same of the sa					
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR210502126202

Page: 15 of 75

#### 7.3 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:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

#### 7.3.1 E.U.T. Operation

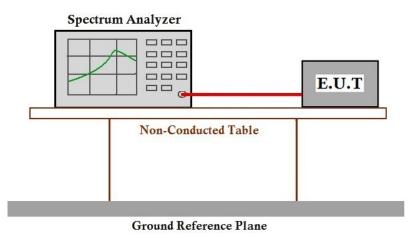
Operating Environment:

Temperature: 24.4 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 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.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR210502126202

Page: 16 of 75

#### 7.4 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).

#### 7.4.1 E.U.T. Operation

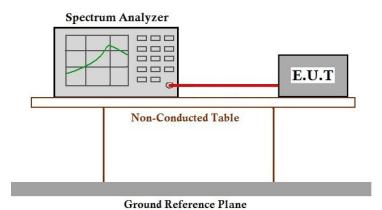
Operating Environment:

Temperature: 24.4 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 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.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR210502126202

Page: 17 of 75

#### 7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 Test Method:

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

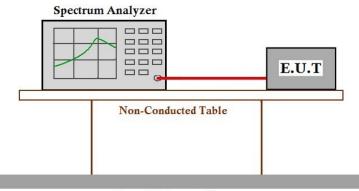
Operating Environment:

24.4 °C Temperature: Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 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.
Final test	01	TX mode(2Mbps)_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

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Page: 18 of 75

#### 7.6 Radiated Emissions which fall in the restricted bands

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

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.

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

7.0.2 Test mode bescription											
Pre-scan / Final test	Mode Code	Description									
Pre-scan	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.									
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.									
Final test	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.									
Final test	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.									



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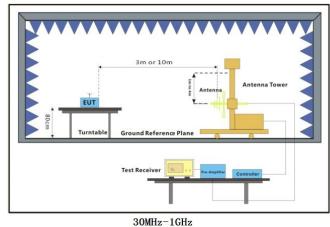
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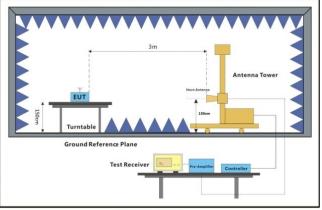


Report No.: SZCR210502126202

Page: 19 of 75

#### 7.6.3 Test Setup Diagram





Above 1GHz

#### 7.6.4 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.
- g. 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 middle 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.



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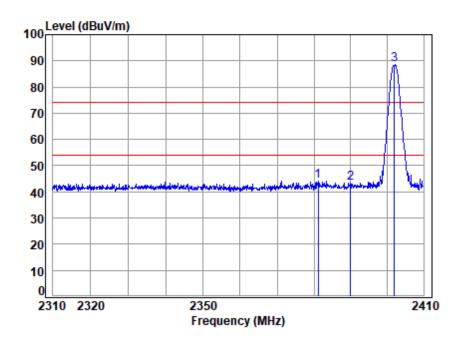
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Page: 20 of 75

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21262AT\21265AT Mode : 2402 Band edge

: BLE 1M

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2381.067	5.52	31.39	35.37	42.67	44.21	74.00	-29.79	peak
	2390.000	5.53	31.30	35.37	41.71	43.17	74.00	-30.83	peak
n	2402 000	5 55	31 19	35 36	87 14	88 52	74 00	14 52	neak



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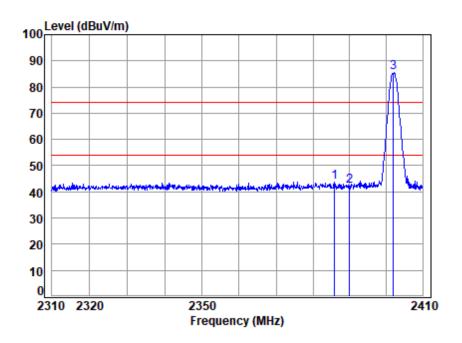
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Report No.: SZCR210502126202

Page: 21 of 75

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21262AT\21265AT Mode : 2402 Band edge

: BLE 1M

	-			Preamp					
	Freq	Loss	Factor	Factor	revel	revel	Line	Limit	Kemark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2385.916	5.53	31.34	35.37	42.40	43.90	74.00	-30.10	peak
	2390.000								•
n	2402.000	5.55	31.19	35.36	84.02	85.40	74.00	11.40	neak



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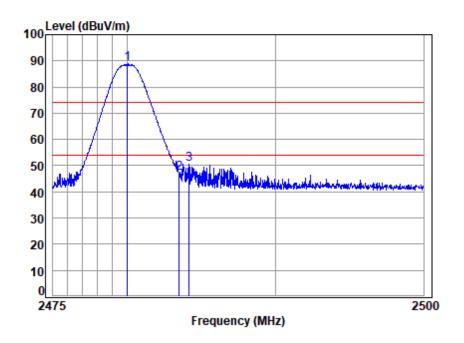
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Page: 22 of 75

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21262AT\21265AT Mode : 2480 Band edge

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
_									
1 p	2480.000	5.64	31.50	35.34	87.04	88.84	/4.00	14.84	peak
2	2483.500	5.64	31.38	35.34	45.29	46.97	74.00	-27.03	peak
3	2484.146	5.64	31.35	35.34	48.84	50.49	74.00	-23.51	peak



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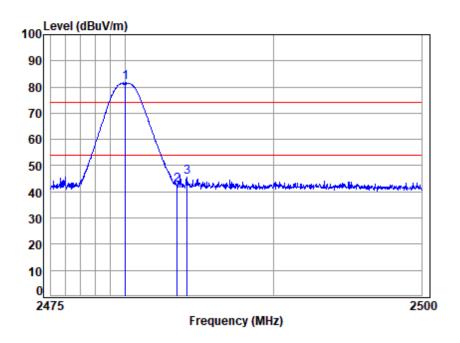
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Page: 23 of 75

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21262AT\21265AT Mode : 2480 Band edge

: BLE 1M

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
2480.000								•	
2483.500								•	



1 2 3

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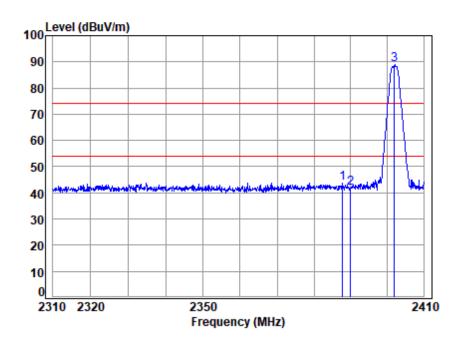
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Report No.: SZCR210502126202

Page: 24 of 75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 21262AT\21265AT Mode : 2402 Band edge

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.736	5.53	31.32	35.37	42.37	43.85	74.00	-30.15	peak
2	2390.000	5.53	31.30	35.37	40.37	41.83	74.00	-32.17	peak
3	p 2402.000	5.55	31.19	35.36	87.45	88.83	74.00	14.83	peak



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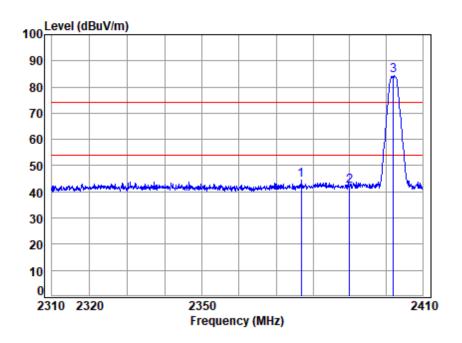
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Page: 25 of 75

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 21262AT\21265AT Mode : 2402 Band edge

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2376.732	5.52	31.27	35.37	43.15	44.57	74.00	-29.43	peak
)	2390.000	5.53	31.30	35.37	40.80	42.26	74.00	-31.74	peak
	n 2402,000	5.55	31.19	35.36	83.07	84.45	74 00	10 45	neak



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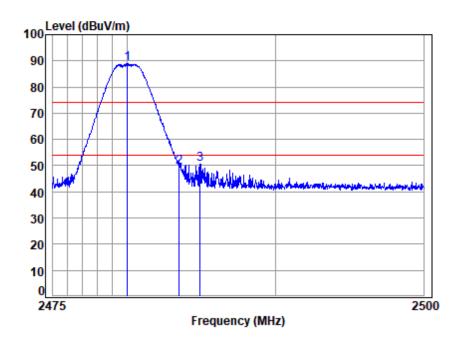
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Report No.: SZCR210502126202

Page: 26 of 75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 21262AT\21265AT Mode : 2480 Band edge

: BLE 2M

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
p 2480.000 2 2483.500	5.64	31.38	35.34	47.86	49.54	74.00	-24.46	peak



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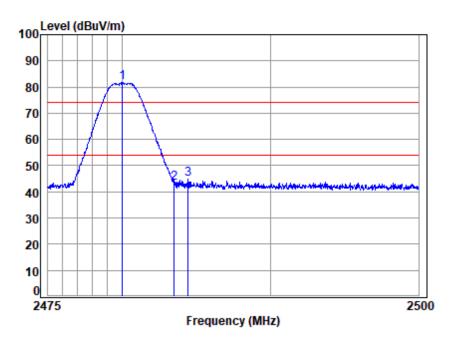
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Report No.: SZCR210502126202

Page: 27 of 75

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 21262AT\21265AT Mode : 2480 Band edge

: BLE 2M

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
р	2480.000	5.64	31.50	35.34	79.92	81.72	74.00	7.72	peak
	2483.500	5.64	31.38	35.34	41.68	43.36	74.00	-30.64	peak
	2484 420	5 64	31 34	35 34	43 41	45 05	74 00	-28 95	neak



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Report No.: SZCR210502126202

Page: 28 of 75

#### 7.7 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

#### 7.7.1 E.U.T. Operation

Operating Environment:

Humidity: 52.8 % RH Temperature: 24.7 °C Atmospheric Pressure: 1010 mbar

#### 7.7.2 Test Mode Description

1.7.2 Test Mode Description									
Pre-scan / Final test	Mode Code	Description							
Pre-scan	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Final test	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							



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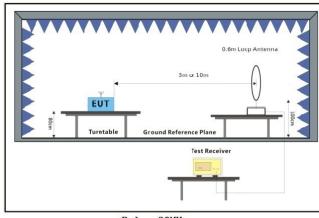
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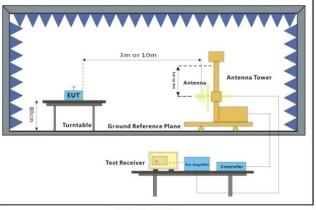


Report No.: SZCR210502126202

Page: 29 of 75

#### 7.7.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz

#### 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 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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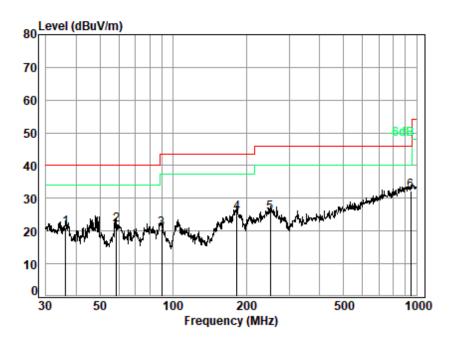
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Report No.: SZCR210502126202

Page: 30 of 75

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 21262AT

Test Mode: 02

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.13	28.50	19.67	0.66	27.72	21.11	40.00	-18.89	QP
2	58.41	35.57	13.12	0.79	27.67	21.81	40.00	-18.19	QP
3	89.90	33.80	13.09	1.30	27.62	20.57	43.50	-22.93	QP
4	183.20	36.11	15.43	1.19	27.20	25.53	43.50	-17.97	QP
5	250.30	32.68	18.20	1.64	26.99	25.53	46.00	-20.47	QP
6 q	948.76	26.14	29.33	3.55	26.91	32.11	46.00	-13.89	QP



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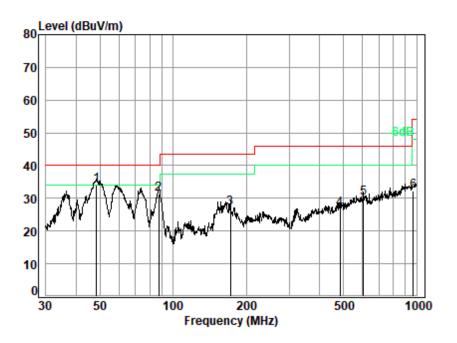
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Report No.: SZCR210502126202

Page: 31 of 75

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 21262AT

Test Mode: 02

	louc. oz								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
_									
1 q	48.50	46.44	14.47	0.70	27.69	33.92	40.00	-6.08	QP
2	87.42	44.95	12.78	1.28	27.62	31.39	40.00	-8.61	QP
3	171.99	37.64	15.56	1.18	27.24	27.14	43.50	-16.36	QP
4	483.91	27.61	24.30	2.47	27.74	26.64	46.00	-19.36	QP
5	605.66	29.32	26.08	2.71	28.12	29.99	46.00	-16.01	QP
6		26.12	29.50	3.57	26.81	32.38	54.00	-21.62	OP



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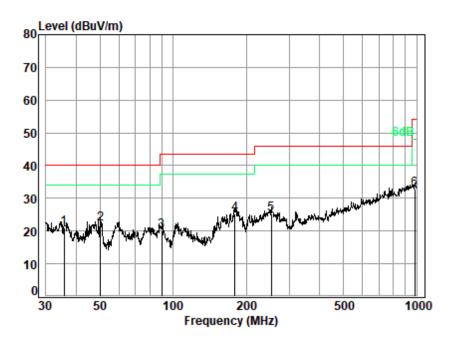
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Report No.: SZCR210502126202

Page: 32 of 75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 21262AT

Test Mode: 03

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	35.62	28.08	19.92	0.66	27.72	20.94	40.00	-19.06	QP
2 q	50.23	35.06	14.03	0.70	27.68	22.11	40.00	-17.89	QP
3	89.90	33.45	13.09	1.30	27.62	20.22	43.50	-23.28	QP
4	179.39	35.75	15.41	1.18	27.22	25.12	43.50	-18.38	QP
5	252.95	32.48	18.17	1.66	26.98	25.33	46.00	-20.67	QP
6	982.62	26.37	29.54	3.58	26.74	32.75	54.00	-21.25	OP.



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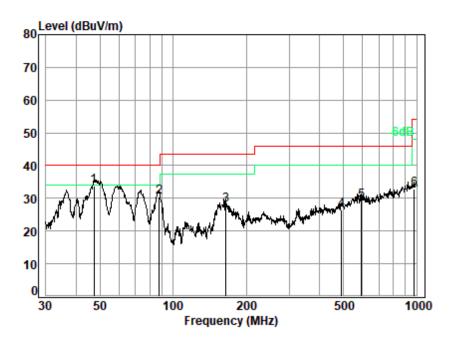
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Report No.: SZCR210502126202

Page: 33 of 75

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 21262AT

Test Mode: 03

	louc. Os								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 q	47.33	45.96	14.93	0.70	27.69	33.90	40.00	-6.10	QP
2	87.72	43.96	12.85	1.28	27.62	30.47	40.00	-9.53	QP
3	164.91	38.52	15.50	1.17	27.27	27.92	43.50	-15.58	QP
4	490.74	27.51	24.28	2.48	27.76	26.51	46.00	-19.49	QP
5	593.05	28.99	25.66	2.69	28.11	29.23	46.00	-16.77	QP
6	979.18	26.61	29.50	3.58	26.76	32.93	54.00	-21.07	QP



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Report No.: SZCR210502126202

Page: 34 of 75

#### 7.8 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

#### Limit:

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

#### 7.8.1 E.U.T. Operation

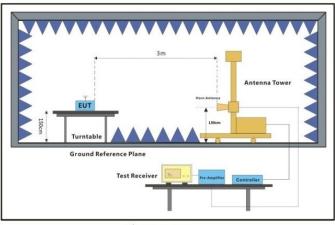
Operating Environment:

23.5 °C Atmospheric Pressure: 1010 mbar Temperature: Humidity: 56.3 % RH

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.8.3 Test Setup Diagram



Above 1GHz



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Report No.: SZCR210502126202

Page: 35 of 75

#### 7.8.4 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.
- 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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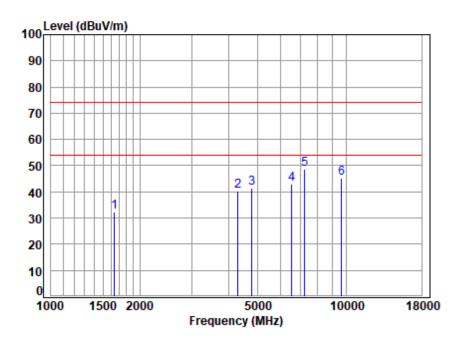
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Report No.: SZCR210502126202

Page: 36 of 75

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m Horizontal
Job No : 21262AT\21265AT

Mode : 2402 TX SE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1634.543	3.01	26.50	45.47	48.12	32.16	74.00	-41.84	peak
)	4291.977	4.53	33.54	45.00	47.41	40.48	74.00	-33.52	peak
,	4804.000	4.95	34.21	45.00	47.46	41.62	74.00	-32.38	peak
ļ	6545.263	6.21	35.14	44.91	46.42	42.86	74.00	-31.14	peak
,	p 7206.000	6.69	35.75	45.00	51.36	48.80	74.00	-25.20	peak
	9608 000	7 91	37 37	45 02	/15 18	15 11	7/ 00	-28 56	neak



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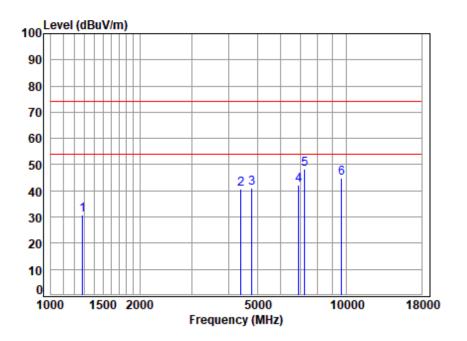
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Report No.: SZCR210502126202

Page: 37 of 75

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m Vertical

Job No : 21262AT\21265AT

Mode : 2402 TX SE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	2.71	24.93	45.54	48.80	30.90	74.00	-43.10	peak
2	4392.376	4.62	33.72	45.00	47.28	40.62	74.00	-33.38	peak
3	4804.000	4.95	34.21	45.00	46.93	41.09	74.00	-32.91	peak
4	6914.763	6.50	35.43	44.98	45.37	42.32	74.00	-31.68	peak
5	p 7206.000	6.69	35.75	45.00	50.88	48.32	74.00	-25.68	peak
6	9608 000	7 91	37 37	45 02	44 67	44 93	74 99	-29 07	neak



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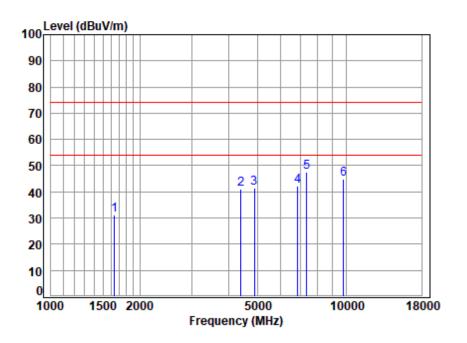
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Report No.: SZCR210502126202

Page: 38 of 75

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m Horizontal
Job No : 21262AT\21265AT

Mode : 2440 TX SE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1644.019	3.02	26.56	45.47	47.20	31.31	74.00	-42.69	peak
2	4405.090	4.63	33.74	45.00	47.62	40.99	74.00	-33.01	peak
3	4880.000	5.01	34.28	45.00	46.98	41.27	74.00	-32.73	peak
4	6855.063	6.46	35.39	44.97	45.29	42.17	74.00	-31.83	peak
5	p 7320.000	6.76	35.89	45.00	50.04	47.69	74.00	-26.31	peak
6	9760 000	7 96	37 /6	15 05	11 68	15 05	7/ 00	-28 95	neak



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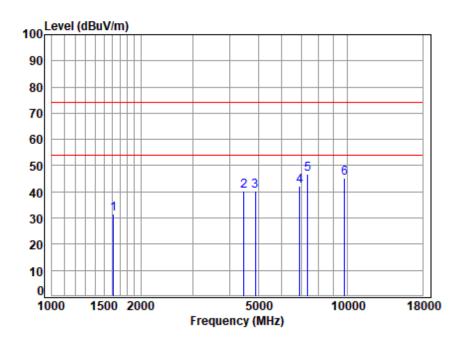
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Report No.: SZCR210502126202

Page: 39 of 75

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m Vertical
Job No : 21262AT\21265AT

Mode : 2440 TX SE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	2.99	26.35	45.48	47.70	31.56	74.00	-42.44	peak
2	4456.315	4.67	33.83	45.00	46.68	40.18	74.00	-33.82	peak
3	4880.000	5.01	34.28	45.00	46.19	40.48	74.00	-33.52	peak
4	6914.763	6.50	35.43	44.98	45.22	42.17	74.00	-31.83	peak
5 p	7320.000	6.76	35.89	45.00	48.99	46.64	74.00	-27.36	peak
6	9760 000	7 96	37 /6	15 05	11 89	45 26	7/ 00	-28 7/	neak



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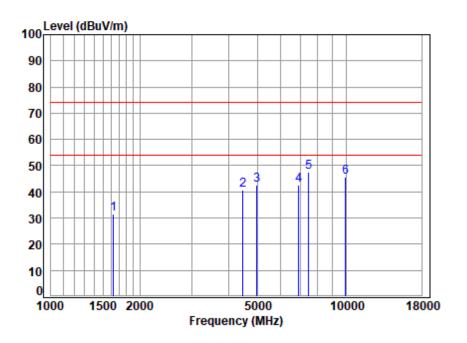
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Report No.: SZCR210502126202

Page: 40 of 75

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m Horizontal
Job No : 21262AT\21265AT

Mode : 2480 TX SE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	3.00	26.47	45.47	47.39	31.39	74.00	-42.61	peak
2	4456.315	4.67	33.83	45.00	47.06	40.56	74.00	-33.44	peak
3	4960.000	5.07	34.36	45.00	48.34	42.77	74.00	-31.23	peak
4	6874.906	6.47	35.40	44.97	45.53	42.43	74.00	-31.57	peak
5 p	7440.000	6.83	36.03	45.00	49.74	47.60	74.00	-26.40	peak
6	9920.000	8.02	37.55	45.08	45.14	45.63	74.00	-28.37	peak



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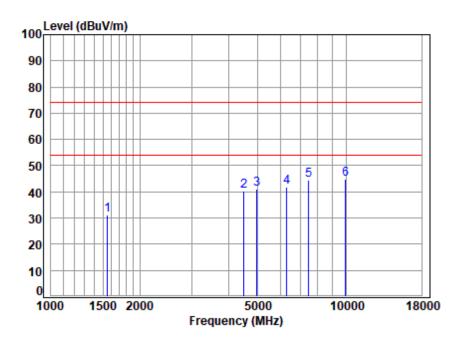
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Report No.: SZCR210502126202

Page: 41 of 75

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m Vertical

Job No : 21262AT\21265AT

Mode : 2480 TX SE

: BLE 1M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1551.677	2.95	25.95	45.49	47.68	31.09	74.00	-42.91	peak
2	4495.125	4.70	33.89	45.00	46.62	40.21	74.00	-33.79	peak
3	4960.000	5.07	34.36	45.00	46.73	41.16	74.00	-32.84	peak
4	6267.553	5.98	34.96	44.85	45.86	41.95	74.00	-32.05	peak
5	7440.000	6.83	36.03	45.00	46.68	44.54	74.00	-29.46	peak
6	p 9920.000	8.02	37.55	45.08	44.46	44.95	74.00	-29.05	peak



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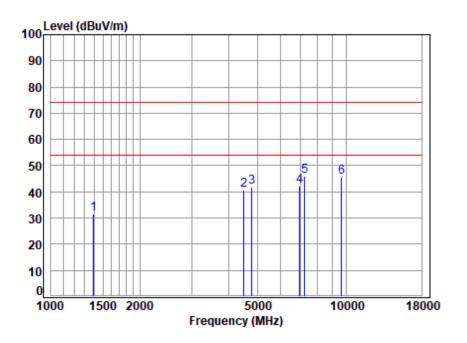
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Report No.: SZCR210502126202

Page: 42 of 75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m Horizontal
Job No : 21262AT\21265AT

Mode : 2402 TX SE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1390.276	2.81	25.28	45.52	48.89	31.46	74.00	-42.54	peak
	4495.125	4.70	33.89	45.00	46.92	40.51	74.00	-33.49	peak
;	4804.000	4.95	34.21	45.00	47.76	41.92	74.00	-32.08	peak
Ļ	6934.778	6.52	35.45	44.99	45.20	42.18	74.00	-31.82	peak
,	7206.000	6.69	35.75	45.00	48.50	45.94	74.00	-28.06	peak
,	9608.000	7.91	37.37	45.02	45.43	45.69	74.00	-28.31	peak



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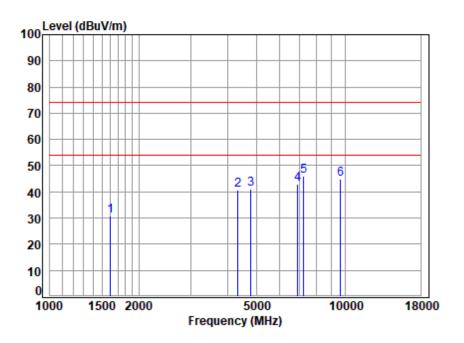
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Report No.: SZCR210502126202

Page: 43 of 75

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m Vertical

Job No : 21262AT\21265AT

Mode : 2402 TX SE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	2.98	26.25	45.48	47.10	30.85	74.00	-43.15	peak
2	4316.859	4.55	33.58	45.00	47.42	40.55	74.00	-33.45	peak
3	4804.000	4.95	34.21	45.00	47.05	41.21	74.00	-32.79	peak
4	6914.763	6.50	35.43	44.98	46.15	43.10	74.00	-30.90	peak
5 p	7206.000	6.69	35.75	45.00	48.42	45.86	74.00	-28.14	peak
6	9608.000	7.91	37.37	45.02	44.43	44.69	74.00	-29.31	peak



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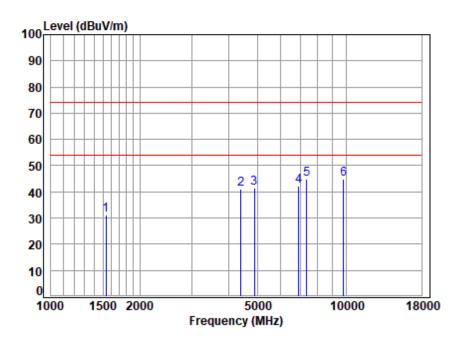
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Report No.: SZCR210502126202

Page: 44 of 75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m Horizontal
Job No : 21262AT\21265AT

Mode : 2440 TX SE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
	1533.841	2.93	25.83	45.49	47.86	31.13	74.00	-42.87	peak
2	4392.376	4.62	33.72	45.00	47.55	40.89	74.00	-33.11	peak
}	4880.000	5.01	34.28	45.00	47.04	41.33	74.00	-32.67	peak
ļ	6894.806	6.49	35.42	44.98	45.33	42.26	74.00	-31.74	peak
р	7320.000	6.76	35.89	45.00	47.30	44.95	74.00	-29.05	peak
;	9760.000	7.96	37.46	45.05	44.55	44.92	74.00	-29.08	peak



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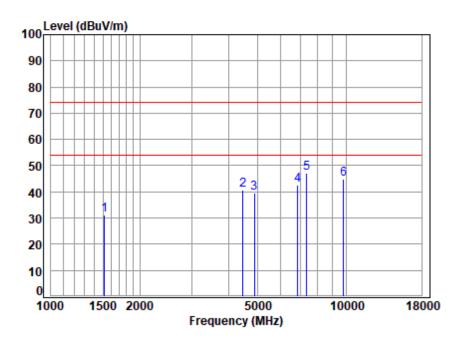
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Report No.: SZCR210502126202

Page: 45 of 75

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m Vertical

Job No : 21262AT\21265AT

Mode : 2440 TX SE

: BLE 2M

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1511.833	2.91	25.68	45.50	48.01	31.10	74.00	-42.90	peak
2		4469.214	4.68	33.85	45.00	47.21	40.74	74.00	-33.26	peak
3		4880.000	5.01	34.28	45.00	45.33	39.62	74.00	-34.38	peak
4		6855.063	6.46	35.39	44.97	45.55	42.43	74.00	-31.57	peak
5	р	7320.000	6.76	35.89	45.00	49.46	47.11	74.00	-26.89	peak
6		9760 000	7 96	37 /6	15 05	11 60	11 97	7/ 00	_29 A3	neak



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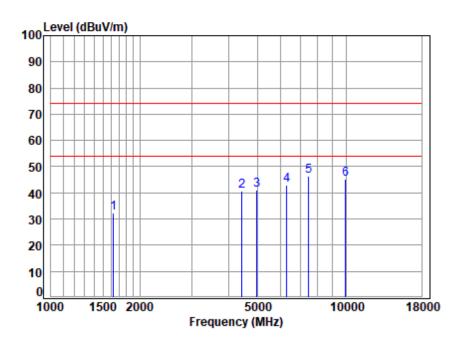
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Report No.: SZCR210502126202

Page: 46 of 75

Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m Horizontal
Job No : 21262AT\21265AT

Mode : 2480 TX SE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	3.00	26.41	45.48	48.22	32.15	74.00	-41.85	peak
2	4443.453	4.66	33.80	45.00	47.15	40.61	74.00	-33.39	peak
3	4960.000	5.07	34.36	45.00	46.56	40.99	74.00	-33.01	peak
4	6267.553	5.98	34.96	44.85	47.03	43.12	74.00	-30.88	peak
5 p	7440.000	6.83	36.03	45.00	48.65	46.51	74.00	-27.49	peak
6	9920.000	8.02	37.55	45.08	44.89	45.38	74.00	-28.62	peak



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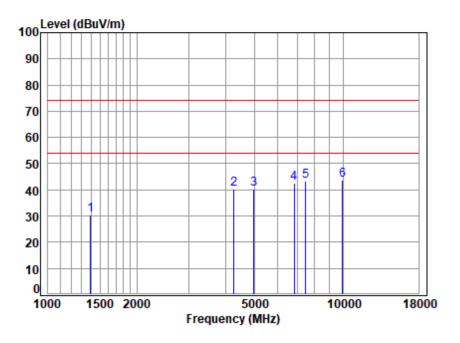
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Report No.: SZCR210502126202

Page: 47 of 75

Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m Vertical

Job No : 21262AT\21265AT

Mode : 2480 TX SE : BLE 2M

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Frea

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1390.276	2.81	25.28	45.52	47.97	30.54	74.00	-43.46	peak
2	4254.921	4.50	33.47	45.00	47.33	40.30	74.00	-33.70	peak
3	4960.000	5.07	34.36	45.00	45.77	40.20	74.00	-33.80	peak
4	6815.551	6.43	35.36	44.96	45.62	42.45	74.00	-31.55	peak
5	7440.000	6.83	36.03	45.00	45.66	43.52	74.00	-30.48	peak
6	p 9920.000	8.02	37.55	45.08	43.29	43.78	74.00	-30.22	peak



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Report No.: SZCR210502126202

Page: 48 of 75

#### **Emission Test Results** 8

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

47 CFR Part 15, Subpart C 15.247, 15.207 Test Requirement:

ANSI C63.10 (2013) Section 6.2 Test Method:

Limit:

Francisco (BALLE)	Conducted	d 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							

#### 8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 61.3 % RH Atmospheric Pressure: 1010 mbar

#### 8.1.2 Test Mode Description

8.1.2 Test	8.1.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Pre-scan	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							
Final test	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.							



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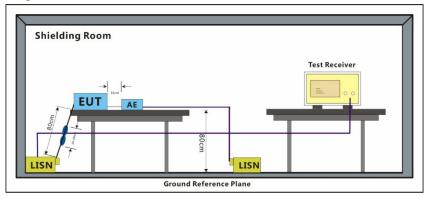
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Report No.: SZCR210502126202

Page: 49 of 75

#### 8.1.3 Test Setup Diagram



#### 8.1.4 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 + 50hm 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.

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



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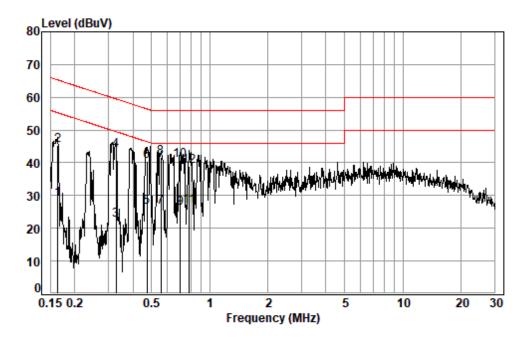
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Page: 50 of 75

Test Mode: 03; Line: Live line; Modulation:GFSK; Channel:Low



: Shielding Room

Condition: Line Job No. : 21262AT

Test mode: 03

	mode. os							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1633	0.03	9.71	19.29	29.03	55.30	-26.27	Average
2	0.1633	0.03	9.71	35.49	45.23	65.30	-20.07	QP
3	0.3268	0.06	9.75	12.59	22.40	49.53	-27.13	Average
4	0.3268	0.06	9.75	34.10	43.91	59.53	-15.62	QP
5	0.4736	0.07	9.77	16.61	26.45	46.45	-20.00	Average
6	0.4736	0.07	9.77	30.74	40.58	56.45	-15.87	QP
7	0.5581	0.08	9.77	16.66	26.51	46.00	-19.49	Average
8	0.5581	0.08	9.77	31.77	41.62	56.00	-14.38	QP
9	0.7047	0.09	9.77	16.29	26.15	46.00	-19.85	Average
10	0.7047	0.09	9.77	30.84	40.70	56.00	-15.30	QP
11	0.7835	0.09	9.78	16.78	26.65	46.00	-19.35	Average
12	0.7835	0.09	9.78	29.11	38.98	56.00	-17.02	QP



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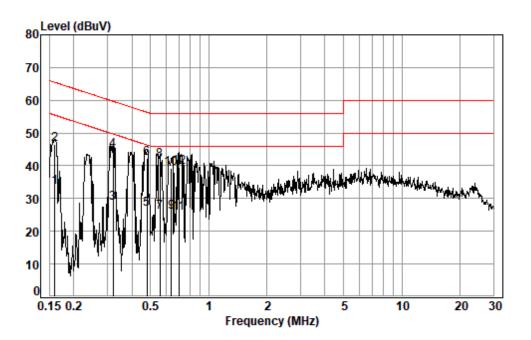
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Report No.: SZCR210502126202

Page: 51 of 75

Test Mode: 03; Line: Neutral Line; Modulation: GFSK; Channel:Low



: Shielding Room

Condition: Neutral Job No. : 21262AT

Test mode: 03

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1598	0.03	9.71	23.77	33.51	55.47	-21.96	Average
2	0.1598	0.03	9.71	36.91	46.65	65.47	-18.82	QP
3	0.3200	0.06	9.74	18.80	28.60	49.71	-21.11	Average
4	0.3200	0.06	9.74	35.03	44.83	59.71	-14.88	QP
5	0.4786	0.07	9.76	16.82	26.65	46.36	-19.71	Average
6	0.4786	0.07	9.76	32.43	42.26	56.36	-14.10	QP
7	0.5581	0.08	9.77	15.99	25.84	46.00	-20.16	Average
8	0.5581	0.08	9.77	31.97	41.82	56.00	-14.18	QP
9	0.6406	0.08	9.77	16.05	25.90	46.00	-20.10	Average
10	0.6406	0.08	9.77	29.30	39.15	56.00	-16.85	QP
11	0.7010	0.09	9.77	15.77	25.63	46.00	-20.37	Average
12	0.7010	0.09	9.77	29.58	39.44	56.00	-16.56	QP



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Report No.: SZCR210502126202

Page: 52 of 75

#### **Test Setup Photo** 9

Refer to test setup Photos for SZCR2105021262AT

## 10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2105021262AT



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Page: 53 of 75

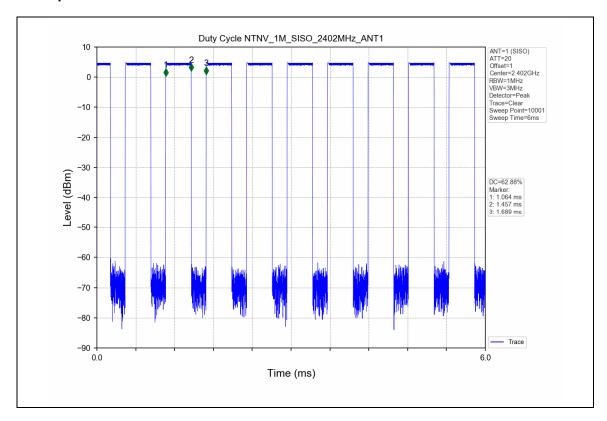
## 11 Appendix

#### 1. Duty Cycle

#### 1.1 Test Result

Test Mode	Channel Frequency( MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	0.393	0.625	62.88	2.01
1M	2440	SISO	1	0.393	0.625	62.88	2.01
	2480	SISO	1	0.393	0.625	62.88	2.01
	2402	SISO	1	0.207	0.625	33.12	4.80
2M	2440	SISO	1	0.208	0.625	33.28	4.78
	2480	SISO	1	0.208	0.625	33.28	4.78

#### 1.2 Test Graph





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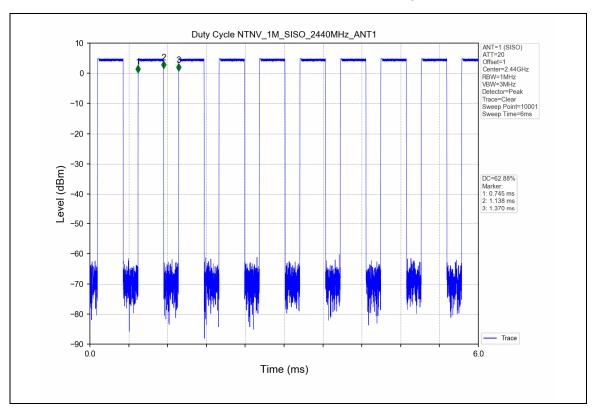
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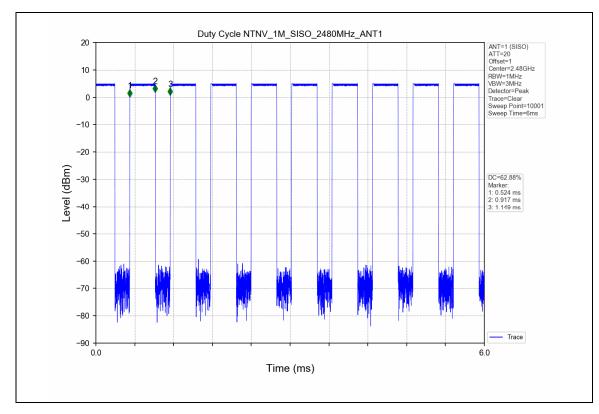
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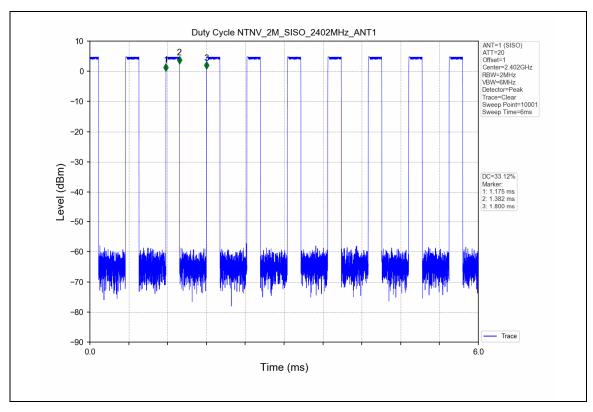
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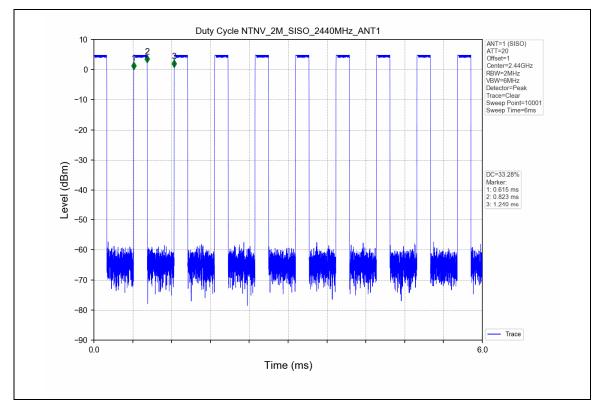
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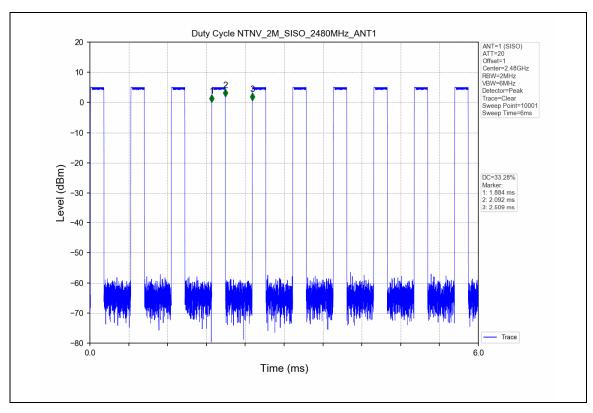
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Report No.: SZCR210502126202

Page: 56 of 75



#### 2. Bandwidth

#### 2.1 Test Result

Test Mode	Frequency	TV Type	ANT No	6dB Bar	Verdict	
	(MHz)	TX Type	ANT No.	Test Result (MHz)	Limits (MHz)	verdict
	2402	SISO	1	0.683	≥0.5	PASS
1M	2440	SISO	1	0.689	≥0.5	PASS
	2480	SISO	1	0.684	≥0.5	PASS
	2402	SISO	1	1.135	≥0.5	PASS
2M	2440	SISO	1	1.141	≥0.5	PASS
	2480	SISO	1	1.131	≥0.5	PASS

#### 2.2 Test Graph - 6dB Bandwidth



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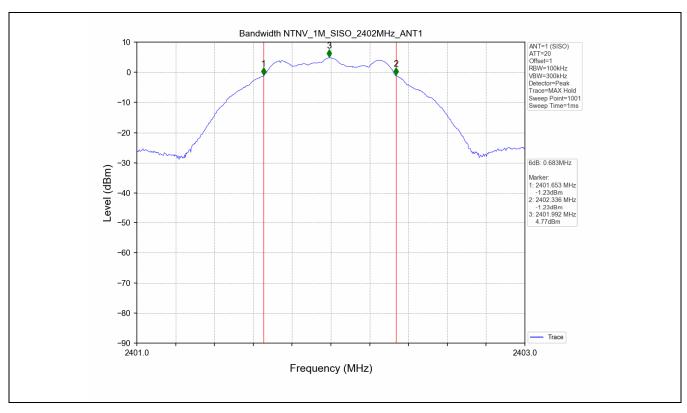
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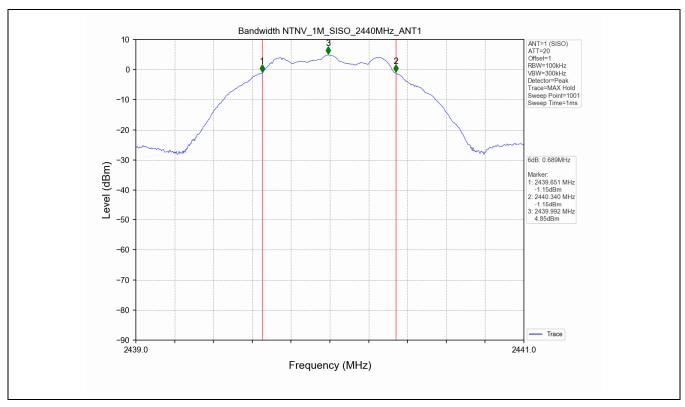
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Report No.: SZCR210502126202

Page: 57 of 75







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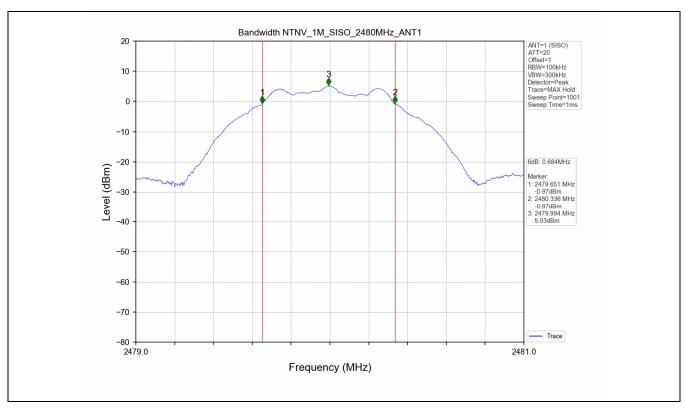
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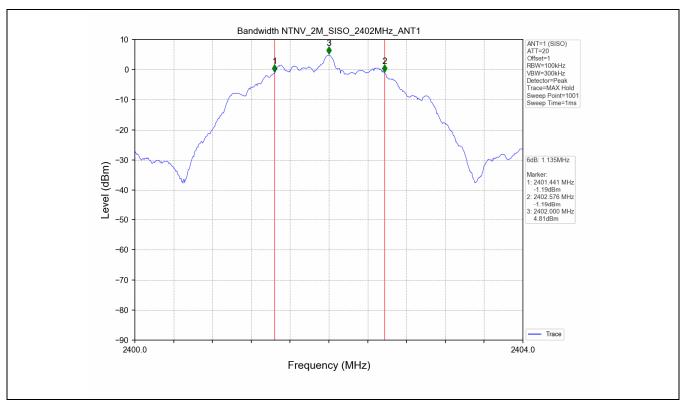
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Page: 58 of 75







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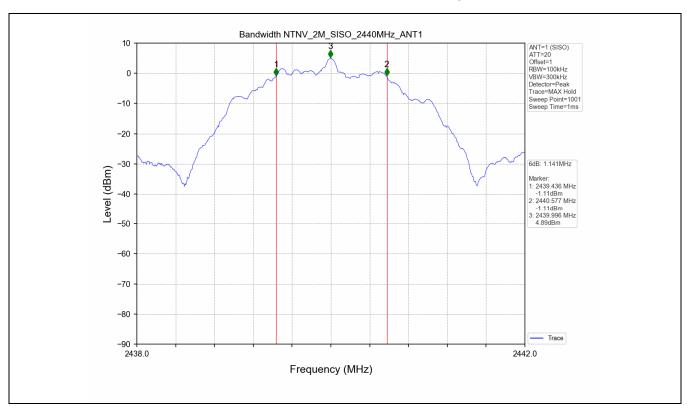
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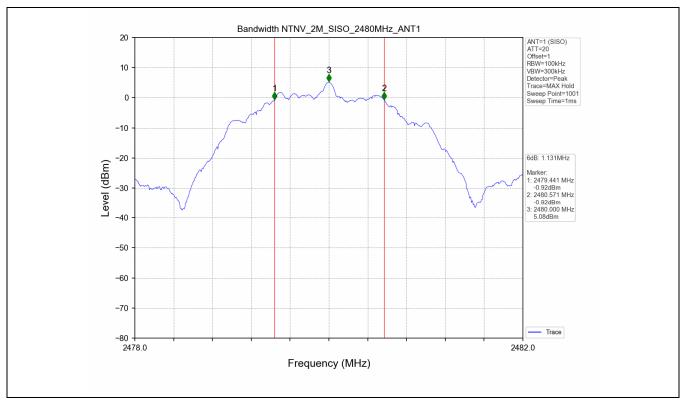
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Report No.: SZCR210502126202

Page: 60 of 75

#### 3. Maximum Conducted Output Power

#### 3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	4.79	30	PASS
1M	2440	SISO	4.87	30	PASS
	2480	SISO	5.04	30	PASS
	2402	SISO	4.81	30	PASS
2M	2440	SISO	4.87	30	PASS
	2480	SISO	5.07	30	PASS



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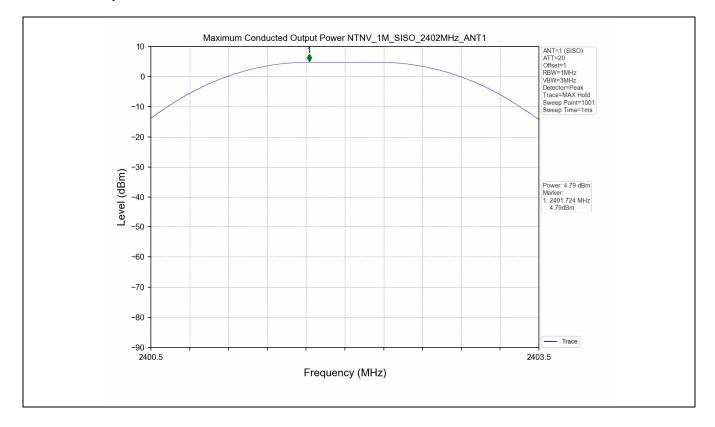


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Report No.: SZCR210502126202

Page: 61 of 75

#### 3.2 Test Graph





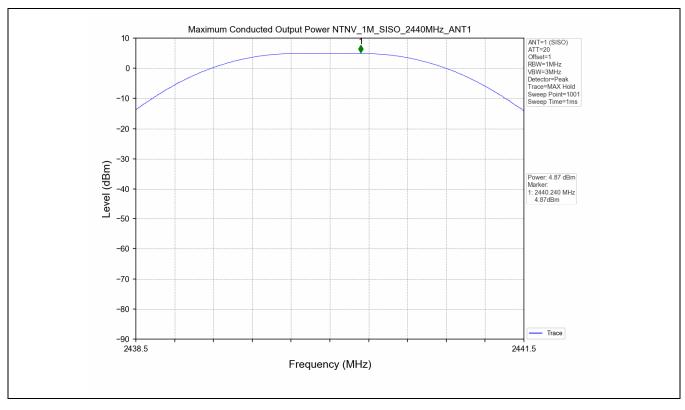
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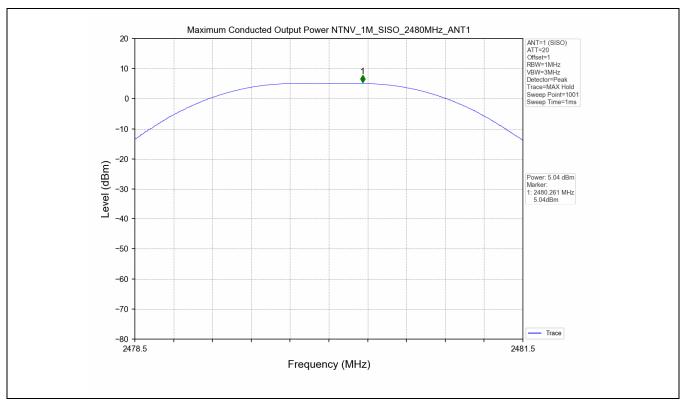
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62 of 75 Page:







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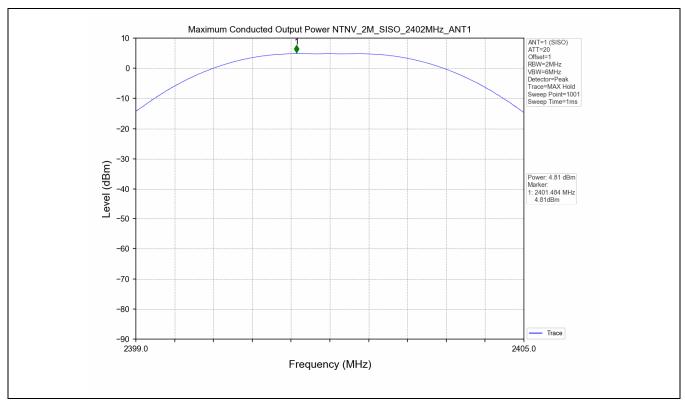
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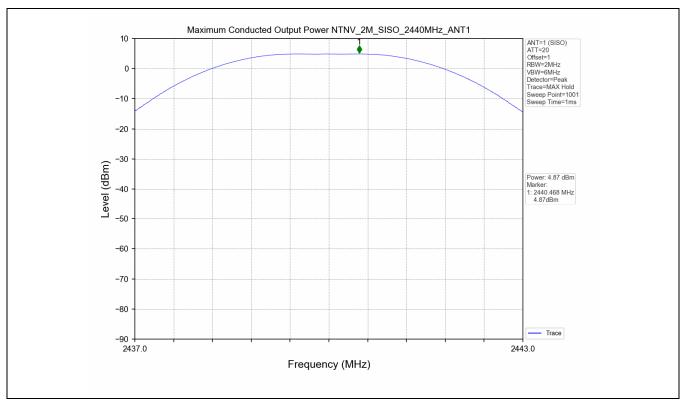
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63 of 75 Page:







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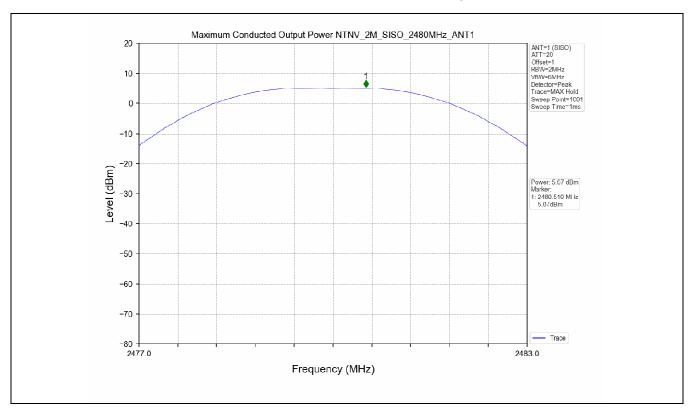
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Report No.: SZCR210502126202

Page: 64 of 75



#### 4. Maximum Power Spectral Density (PSD)

#### 4.1 Test Result

Test Mode	Frequency (MHz) Tx Type		Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict	
			Ant 1			
	2402	SISO	-10.33	≤8	PASS	
1M	2440	SISO	-10.36	≤8	PASS	
	2480	SISO	-10.33	≤8	PASS	
	2402	SISO	-12.93	≤8	PASS	
2M	2440	SISO	-12.82	≤8	PASS	
	2480	SISO	-12.68	≤8	PASS	



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Page: 65 of 75

#### 4.2 Test Graph





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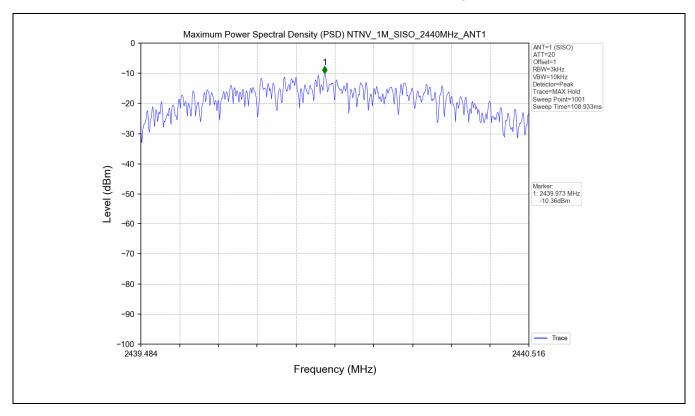
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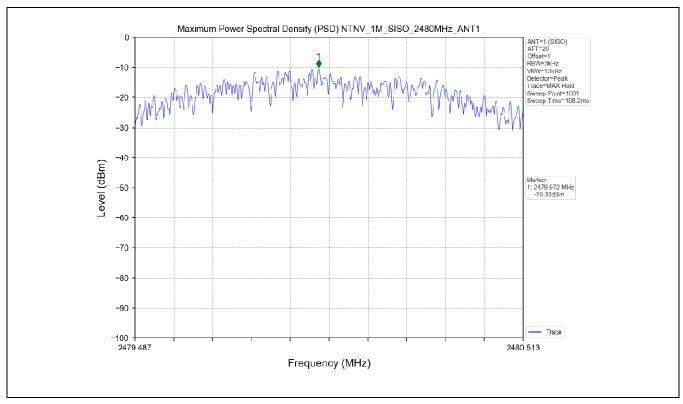
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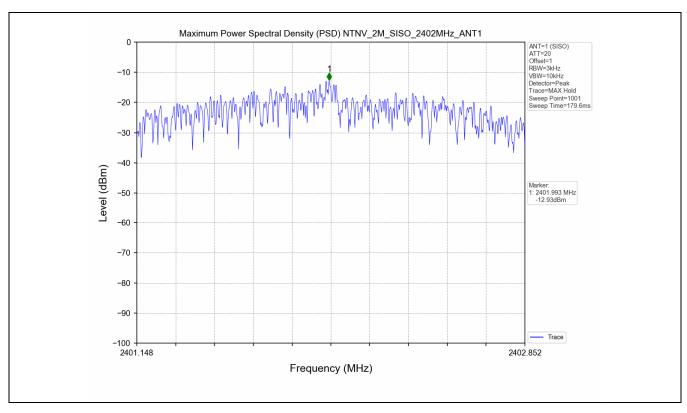
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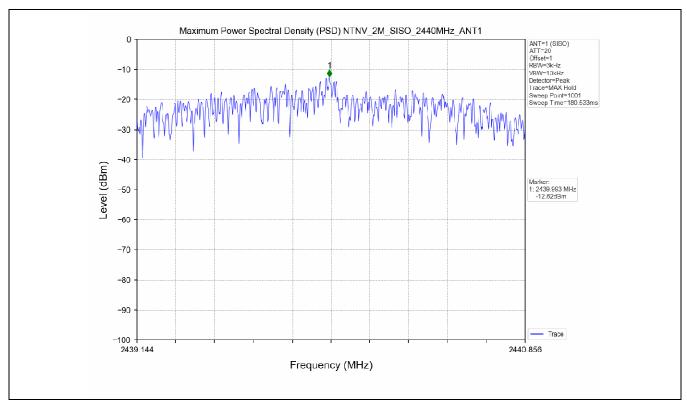
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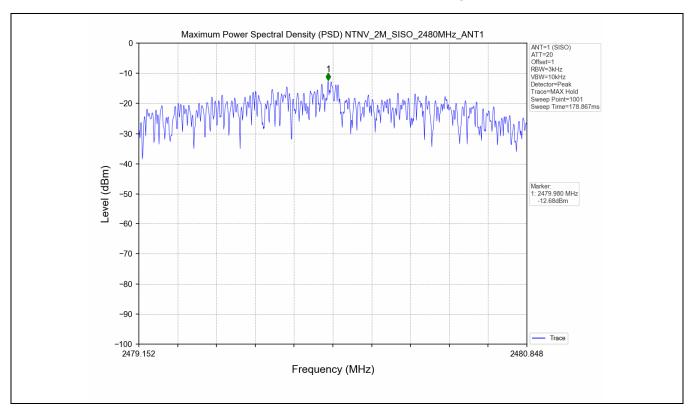
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Report No.: SZCR210502126202

Page: 68 of 75



#### 5. Unwanted Emissions in Non-restricted Frequency Bands

#### 5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-14.99	PASS
1M	2440	SISO	1	Refer to test graph	-14.99	PASS
	2480	SISO	1	Refer to test graph	-14.99	PASS
	2402	SISO	1	Refer to test graph	-14.97	PASS
2M	2440	SISO	1	Refer to test graph	-14.97	PASS
	2480	SISO	1	Refer to test graph	-14.97	PASS



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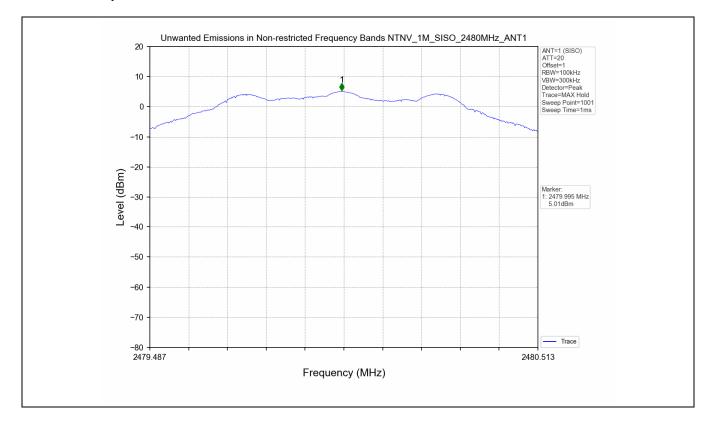


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Report No.: SZCR210502126202

Page: 69 of 75

#### 5.2 Test Graph





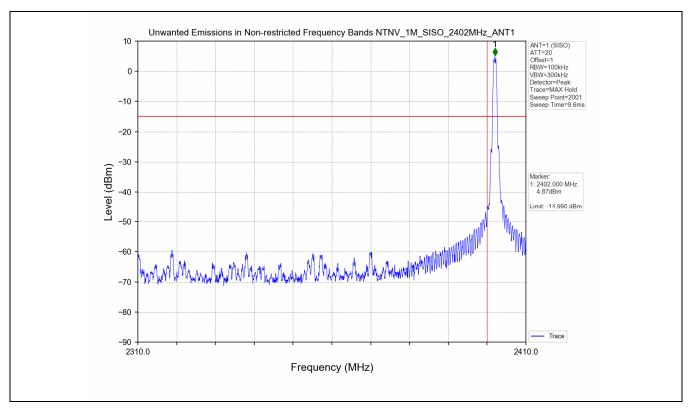
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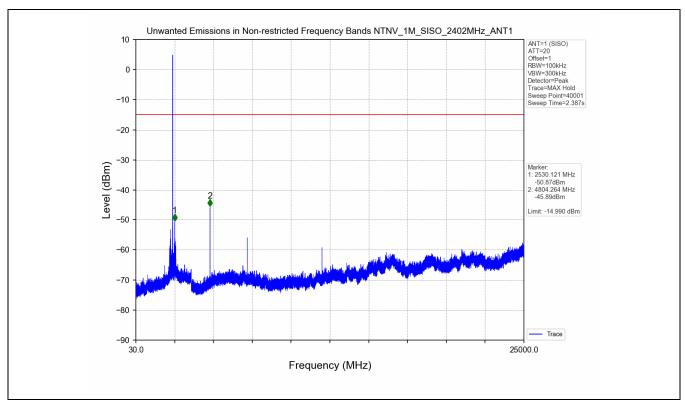
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Page: 70 of 75







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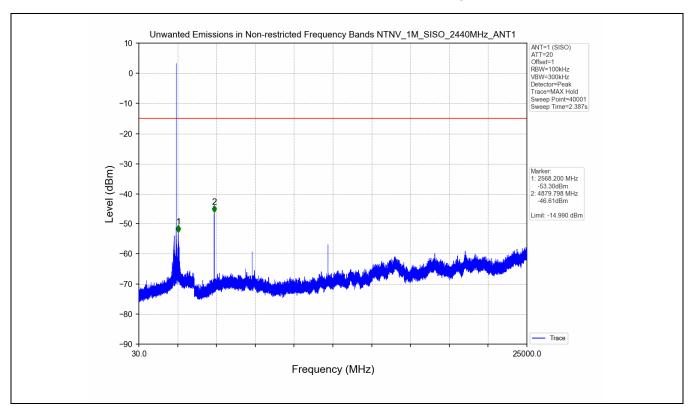
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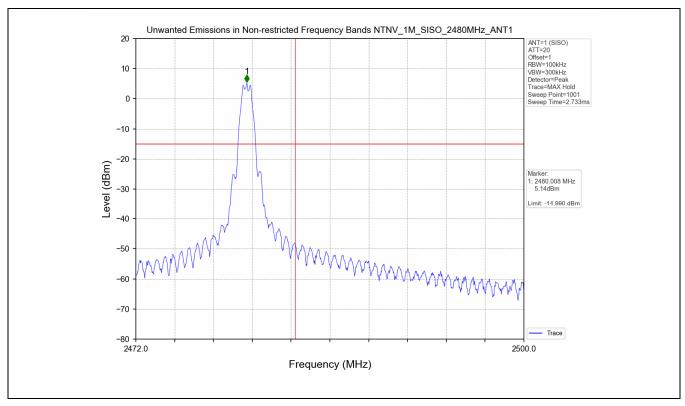
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71 of 75 Page:







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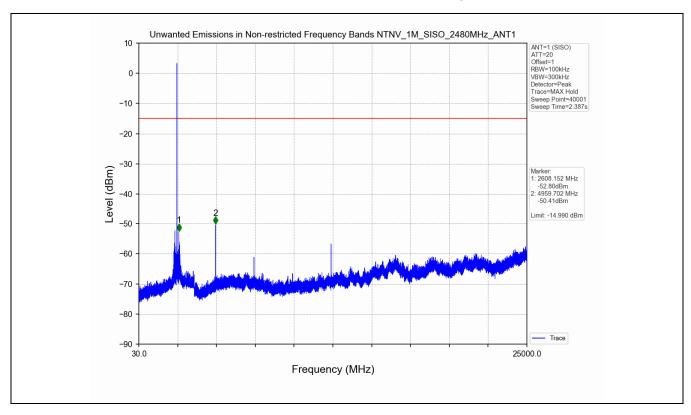
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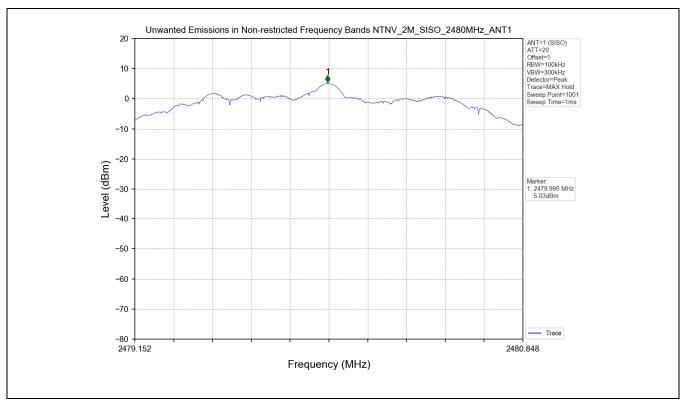
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72 of 75 Page:







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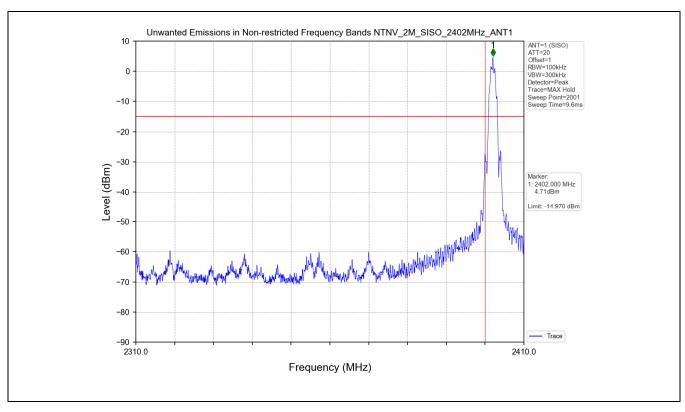
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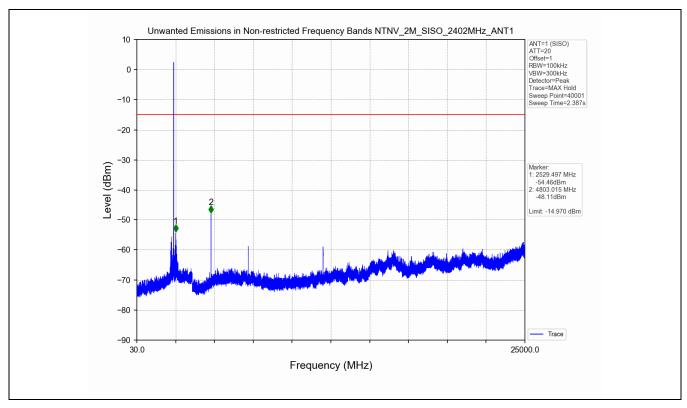
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Page: 73 of 75







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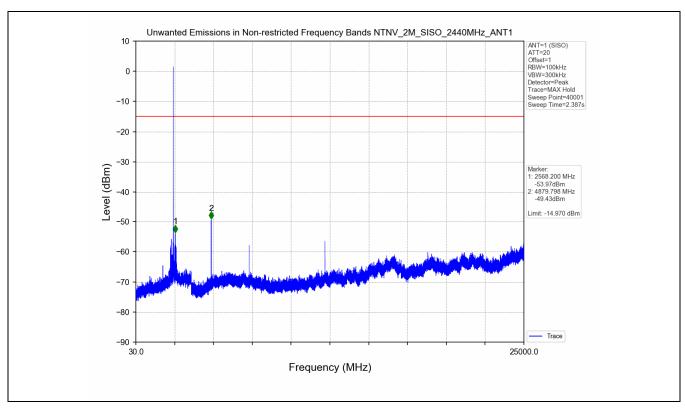
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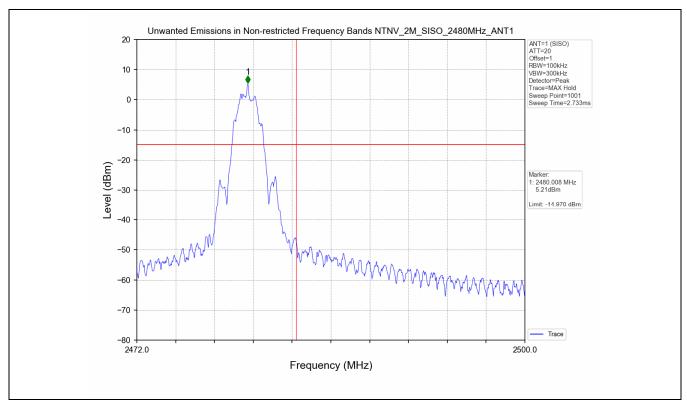
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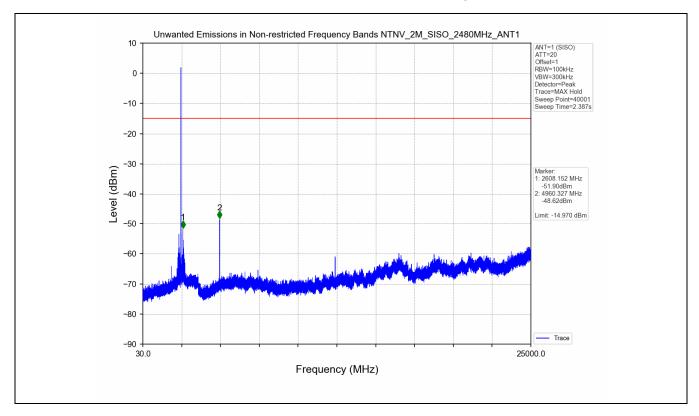
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