

Report No.: SZEM200900987302

Page: 1 of 54

TEST REPORT

Application No.: SZEM2009009873CR

Applicant: SARIANA LLC

Address of Applicant: 7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA

Manufacturer: SARIANA LLC

Address of Manufacturer: 7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA

Factory: GUANGDONG SENEASY INTTELLIGENT TECHNOLOGY CO., LTD

Address of Factory: No. 63, Huitai Industrial Park, Huicheng District, Huizhou City, Guangdong,

China 516006

Equipment Under Test (EUT):

EUT Name: R1 Bluetooth Presentation Remote

Model No.: ST-BTPR1M Trade Mark: SATECHI

FCC ID: ZE9-ST-BTPR1M

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

Date of Receipt: 2020-09-29

Date of Test: 2020-10-10 to 2020-10-13

Date of Issue: 2020-10-21

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Keny. Ku



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



Report No.: SZEM200900987302

Page: 2 of 54

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2020-10-21		Original			

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



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Report No.: SZEM200900987302

Page: 3 of 54

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 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	
Minimum 6dB	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Bandwidth	Subpart C 15.247	Section 11.8.1	C 15.247a(2)		
Conducted Peak	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Output Power	Subpart C 15.247	Section 11.9.1	C 15.247(b)(3)		
Power Spectrum	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Density	Subpart C 15.247	Section 11.10.2	C 15.247(e)		
Conducted Band	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Edges Measurement	Subpart C 15.247	Section 11.13.3.2	C 15.247(d)		
Conducted Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Emissions	Subpart C 15.247	Section 11.11	C 15.247(d)		
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	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Emissions	Subpart C 15.247	Section 6.4,6.5,6.6	C 15.205 & 15.209		



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Report No.: SZEM200900987302

Page: 4 of 54

Contents

		Pi	age
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.	
	4.2	DESCRIPTION OF SUPPORT UNITS	
	4.3 4.4	MEASUREMENT UNCERTAINTY	
	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	12
	6.1	ANTENNA REQUIREMENT	12
	6.1.1	1 Test Requirement:	12
	6.1.2	2 Conclusion	12
7	RAD	DIO SPECTRUM MATTER TEST RESULTS	13
	7.1	CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	13
	7.1.1		
	7.1.2	2 Test Setup Diagram	13
	7.1.3		
	7.2	MINIMUM 6DB BANDWIDTH	
	7.2.1 7.2.2	'	
	7.2.3	, •	
	7.3	CONDUCTED PEAK OUTPUT POWER	
	7.3.1	1 E.U.T. Operation	19
	7.3.2	1 0	
	7.3.3		
	7.4 <i>7.4.</i> 1		
	7.4.2	1	
	7.4.3		
	7.5	CONDUCTED BAND EDGES MEASUREMENT	
	7.5.1		
	7.5.2	7 0	
	7.5.3		
	7.6 7.6.1	CONDUCTED SPURIOUS EMISSIONS	
	7.6.2	,	



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Report No.: SZEM200900987302

Page: 5 of 54

	7.6.3	Measurement Procedure and Data	24
	7.7 F	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	25
	7.7.1	E.U.T. Operation	25
	7.7.2	Test Setup Diagram	25
	7.7.3	Measurement Procedure and Data	26
	7.8 F	RADIATED SPURIOUS EMISSIONS	31
	7.8.1	E.U.T. Operation	32
	7.8.2	Test Setup Diagram	32
	7.8.3	Measurement Procedure and Data	33
8	PHOT	OGRAPHS	42
	8.1 T	FEST SETUP	42
	8.2 E	EUT Constructional Details (EUT Photos)	42
9	APPE	NDIX	43-54



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Report No.: SZEM200900987302

Page: 6 of 54

General Information

4.1 Details of E.U.T.

Power Supply:	Rechargeable battery DC3.7V,200mAh ,Charged by DC5V
Cable:	Type-C Cable:25cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	BLE V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mb/s
Antenna Type:	Integral
Antenna Gain:	-5.32dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF. No.SEA0500

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	Conduction emission	± 3.0dB (150kHz to 30MHz)
5	RF conducted power	± 0.75dB
6	RF power density	± 2.84dB
7	Conducted Spurious emissions	± 0.75dB
0	DE Dadioted versus	± 4.5dB (Below 1GHz)
8	RF Radiated power	± 4.8dB (Above 1GHz)
0	Dedicted Charles amission test	± 4.5dB (Below 1GHz)
9	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
10	Temperature test	± 1°C
11	Humidity test	± 3%
12	Supply voltages	± 1%
13	Time	± 3%



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Report No.: SZEM200900987302

Page: 7 of 54

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.

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.

VCC

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. 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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Page: 8 of 54

Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
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	2020-04-01	2021-03-31	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	

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	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-23	2021-09-22	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-23	2021-09-22	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

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	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-23	2021-09-22	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-23	2021-09-22	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Page: 9 of 54

Power Spectrum Densit	Power Spectrum Density						
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	2020-03-24	2021-03-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-23	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-23	2021-09-22		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		

Conducted Band Edges	Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No	Model No Inventory No		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	2020-03-24	2021-03-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-23	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-23	2021-09-22		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		

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	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-23	2021-09-22	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-23	2021-09-22	



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Report No.: SZEM200900987302

Page: 10 of 54

Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
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Radiated Emissions wh	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	2018-03-13	2021-03-12	
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	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2020-09-23	2021-09-22	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	

Radiated Emissions (below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
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	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31	



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Report No.: SZEM200900987302

Page: 11 of 54

Radiated Spurious Emissions						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
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	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2020-09-23	2021-09-22	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	

General used equipment							
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	2020-04-07	2021-04-06		



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Report No.: SZEM200900987302

Page: 12 of 54

Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

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

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.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -5.32dBi.

Antenna location: Refer to internal photo.



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Page: 13 of 54

Radio Spectrum Matter Test Results 7

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

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

Limit:

Fraguency of emission (MU=)	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the f	requency.				

7.1.1 E.U.T. Operation

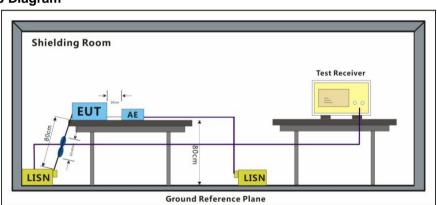
Operating Environment:

Temperature: 23 °C 56.5 % RH Atmospheric Pressure: 1010 mbar Humidity:

Test mode: c:Charge + TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

7.1.2 Test Setup Diagram





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Report No.: SZEM200900987302

Page: 14 of 54

7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not
- 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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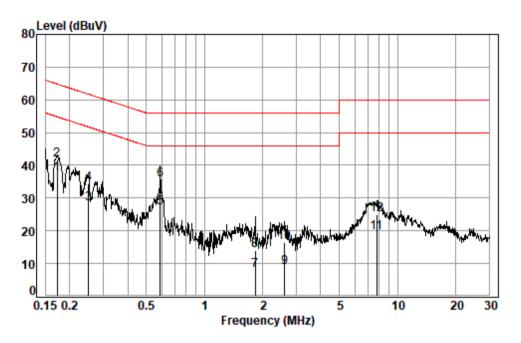
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Report No.: SZEM200900987302

Page: 15 of 54

Mode:c; Line:Live Line



: Shielding Room

Condition: Line Job No. : 09873CR

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1722	0.02	9.68	27.68	37.38	54.86	-17.48	Average
2	0.1722	0.02	9.68	31.95	41.65	64.86	-23.21	QP
3	0.2508	0.03	9.68	18.65	28.36	51.73	-23.37	Average
4	0.2508	0.03	9.68	24.70	34.41	61.73	-27.32	QP
5	0.5885	0.07	9.69	17.19	26.95	46.00	-19.05	Average
6	0.5885	0.07	9.69	25.72	35.48	56.00	-20.52	QP
7	1.8288	0.15	9.74	-1.88	8.01	46.00	-37.99	Average
8	1.8288	0.15	9.74	4.03	13.92	56.00	-42.08	QP
9	2.6082	0.16	9.77	-0.97	8.96	46.00	-37.04	Average
10	2.6082	0.16	9.77	6.58	16.51	56.00	-39.49	QP
11	7.8102	0.17	9.97	9.47	19.61	50.00	-30.39	Average
12	7.8102	0.17	9.97	14.79	24.93	60.00	-35.07	QP



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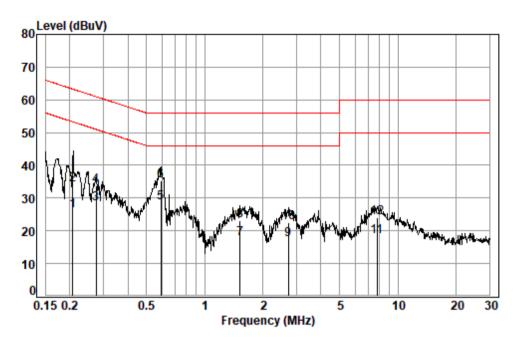
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Report No.: SZEM200900987302

Page: 16 of 54

Mode:c; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 09873CR

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2072	0.02	9.66	16.42	26.10	53.32	-27.22	Average
2	0.2072	0.02	9.66	24.31	33.99	63.32	-29.33	QP
3	0.2744	0.04	9.67	18.57	28.28	50.98	-22.70	Average
4	0.2744	0.04	9.67	24.18	33.89	60.98	-27.09	QP
5	0.5948	0.07	9.68	18.92	28.67	46.00	-17.33	Average
6	0.5948	0.07	9.68	25.47	35.22	56.00	-20.78	QP
7	1.5274	0.13	9.71	7.75	17.59	46.00	-28.41	Average
8	1.5274	0.13	9.71	13.24	23.08	56.00	-32.92	QP
9	2.7212	0.16	9.75	7.57	17.48	46.00	-28.52	Average
10	2.7212	0.16	9.75	12.64	22.55	56.00	-33.45	QP
11	7.8102	0.17	10.04	8.14	18.35	50.00	-31.65	Average
12	7.8102	0.17	10.04	13.73	23.94	60.00	-36.06	QP



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Report No.: SZEM200900987302

Page: 17 of 54

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: 25 °C 48.7 % RH Atmospheric Pressure: 1010 mbar Humidity:

b:TX mode_Keep the EUT in continuously transmitting mode with GFSK Pretest these

modes to find modulation

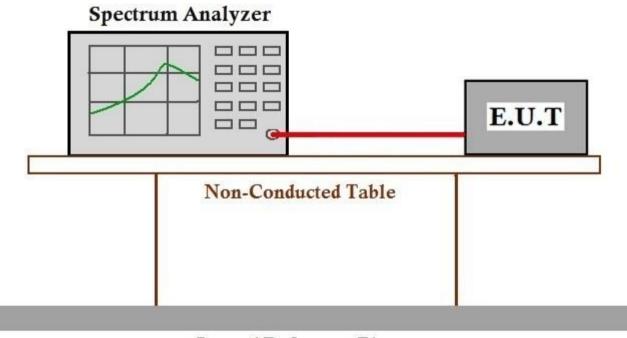
the worst case: c:Charge + TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

b:TX mode Keep the EUT in continuously transmitting mode with GFSK The worst case

for final test: modulation

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200900987302

Page: 18 of 54

7.3 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



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Report No.: SZEM200900987302

Page: 19 of 54

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

Pretest these b:TX mode Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

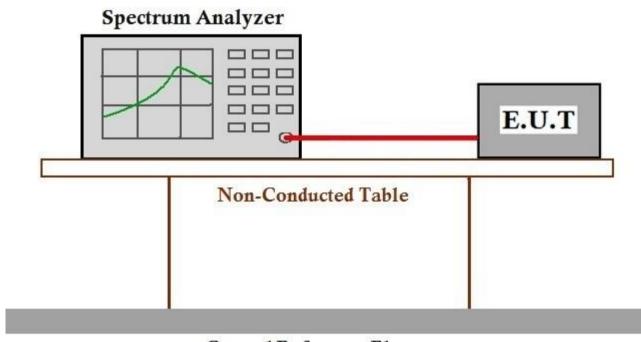
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

The worst case b:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation for final test:

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200900987302

Page: 20 of 54

7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

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

transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

Pretest these b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

the worst case: c:Charge + TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

The worst case b:TX mode Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

7.4.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200900987302

Page: 21 of 54

7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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Report No.: SZEM200900987302

Page: 22 of 54

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C 48.7 % RH Atmospheric Pressure: 1010 mbar Humidity:

b:TX mode_Keep the EUT in continuously transmitting mode with GFSK Pretest these

modes to find modulation

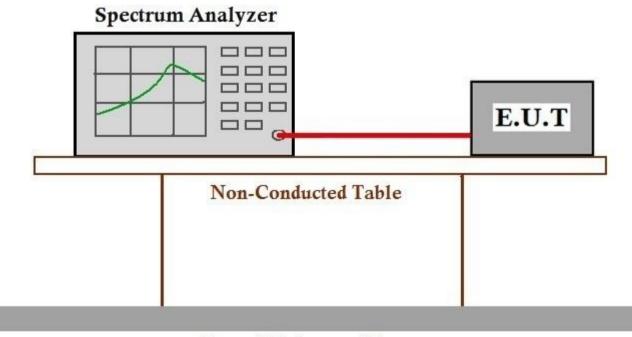
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

The worst case b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200900987302

Page: 23 of 54

7.6 Conducted Spurious Emissions

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

§15.209(a) (see §15.205(c)

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



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Report No.: SZEM200900987302

Page: 24 of 54

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 48.7 % RH Atmospheric Pressure: 1010 mbar Humidity:

b:TX mode_Keep the EUT in continuously transmitting mode with GFSK Pretest these

modes to find modulation

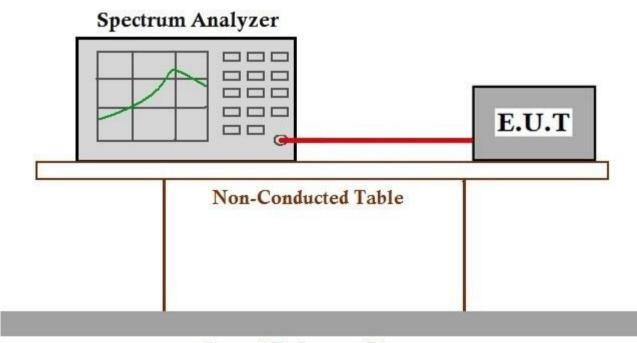
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

The worst case b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200900987302

Page: 25 of 54

7.7 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

Pretest these b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

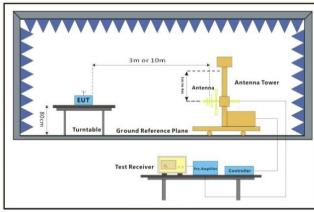
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

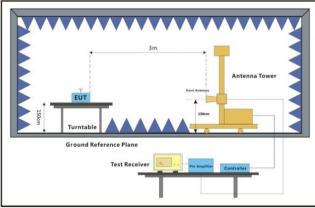
mode with GFSK modulation.

The worst case b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

7.7.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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Report No.: SZEM200900987302

Page: 26 of 54

7.7.3 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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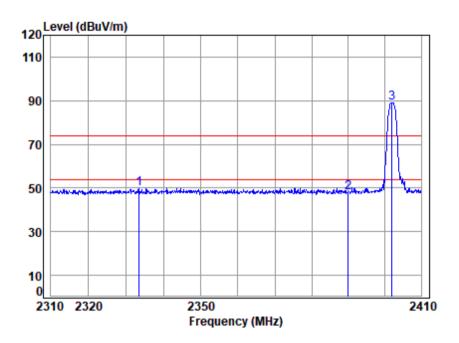
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Report No.: SZEM200900987302

Page: 27 of 54

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 09873CR

: 2402 Band edge Mode

Note : BLE

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2333.417								•
2390.000 2402.000								•



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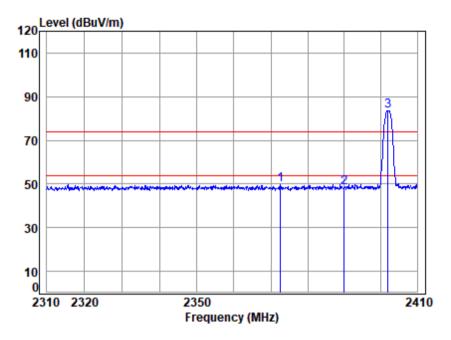
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Report No.: SZEM200900987302

Page: 28 of 54

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 09873CR

: 2402 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2372.606 2390.000								•
	2402.000								•



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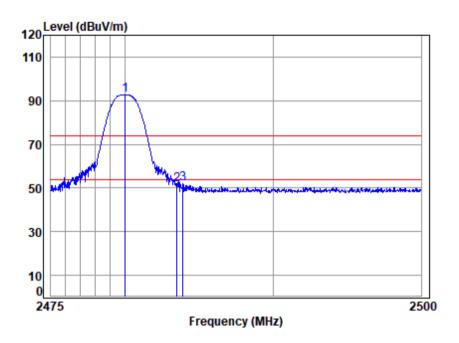
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Report No.: SZEM200900987302

Page: 29 of 54

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 09873CR

: 2480 Band edge Mode

Note : BLE

			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	
		2400 000	4 40	20.67	44 04	400 44	00.56	74.00	40.56	
1	٠.	2480.000	4.49	28.6/	41.01	100.41	92.56	74.00	18.56	реак
2		2483.500	4.49	28.67	41.01	59.23	51.38	74.00	-22.62	peak
3		2483.896	4.49	28.67	41.01	60.01	52.16	74.00	-21.84	peak



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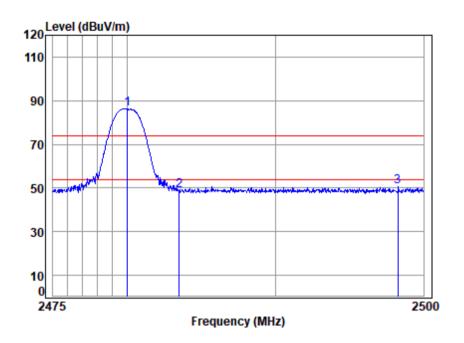
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Report No.: SZEM200900987302

Page: 30 of 54

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 09873CR

Mode : 2480 Band edge

Note : BLE

		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 *	* 2480.000	4.49	28.67	41.01	93.99	86.14	74.00	12.14	peak
2	2483.500	4.49	28.67	41.01	56.73	48.88	74.00	-25.12	peak
3	2498.267	4.52	28.70	41.02	58.45	50.65	74.00	-23.35	peak



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Report No.: SZEM200900987302

Page: 31 of 54

7.8 Radiated Spurious Emissions

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

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.



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Report No.: SZEM200900987302

Page: 32 of 54

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C % RH Atmospheric Pressure: 1010 mbar Humidity:

Pretest these b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modes to find modulation

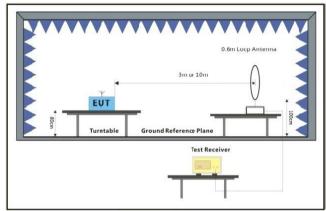
the worst case: c:Charge + TX mode Keep the EUT in charging and continuously transmitting

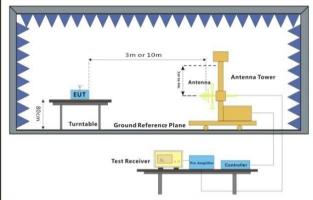
mode with GFSK modulation.

The worst case b:TX mode_Keep the EUT in continuously transmitting mode with GFSK

for final test: modulation

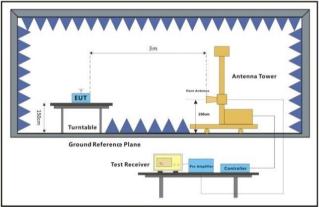
7.8.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM200900987302

Page: 33 of 54

7.8.3 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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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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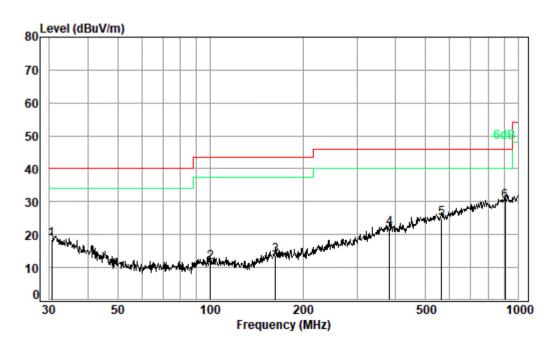
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Page: 34 of 54

Below 1GHz

QP value:

Mode: b; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 09873CR

Test Mode: b

		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	30.53	0.61	22.59	27.73	23.11	18.58	40.00	-21.42	QP
2	100.23	1.10	13.99	27.61	24.10	11.58	43.50	-31.92	QP
3	162.61	1.17	15.45	27.28	24.40	13.74	43.50	-29.76	QP
4	382.59	2.25	22.23	27.31	24.69	21.86	46.00	-24.14	QP
5	564.64	2.63	25.00	28.02	25.30	24.91	46.00	-21.09	QP
6 pp	906.48	3.51	29.00	27.13	24.70	30.08	46.00	-15.92	QP



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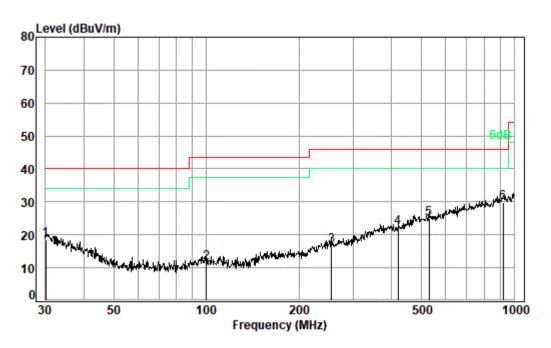
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Report No.: SZEM200900987302

Page: 35 of 54

Mode:b; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 09873CR

Test Mode: b

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.11	0.60	22.92	27.74	22.90	18.68	40.00	-21.32	QP
2	100.23	1.10	13.99	27.61	24.11	11.59	43.50	-31.91	QP
3	254.73	1.68	18.15	26.98	23.93	16.78	46.00	-29.22	QP
4	420.58	2.34	22.01	27.48	25.48	22.35	46.00	-23.65	QP
5	530.10	2.56	24.70	27.90	25.68	25.04	46.00	-20.96	QP
6 pp	922.52	3.52	29.20	27.05	24.18	29.85	46.00	-16.15	OP



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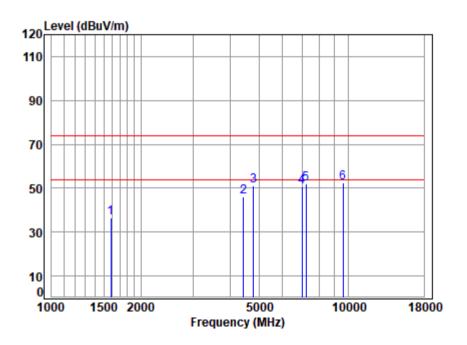


Report No.: SZEM200900987302

Page: 36 of 54

Above 1GHz

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 09873CR Mode : 2402 TX SE

Note : BLE

		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	1587.975	3.34	26.20	40.56	47.53	36.51	74.00	-37.49	peak
2	4430.628	6.70	33.48	42.50	48.37	46.05	74.00	-27.95	peak
3	4804.000	7.10	33.97	42.77	53.00	51.30	74.00	-22.70	peak
4	6974.982	8.53	35.89	41.70	48.01	50.73	74.00	-23.27	peak
5	7206.000	8.74	36.07	41.58	48.99	52.22	74.00	-21.78	peak
6	9608.000	10.81	37.67	38.57	42.69	52.60	74.00	-21.40	peak



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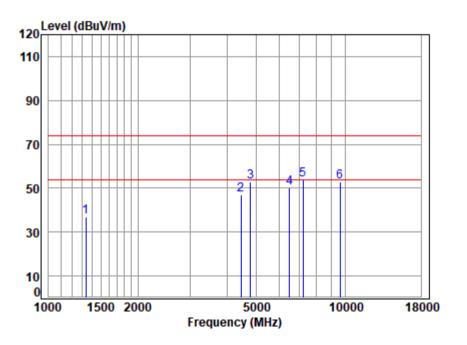
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Page: 37 of 54

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 09873CR Mode : 2402 TX SE

Note : BLE

		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	1335.141	3.00	25.17	40.39	49.23	37.01	74.00	-36.99	peak
2	4456.315	6.72	33.53	42.52	49.12	46.85	74.00	-27.15	peak
3	4804.000	7.10	33.97	42.77	54.58	52.88	74.00	-21.12	peak
4	6488.754	8.28	35.59	41.96	48.18	50.09	74.00	-23.91	peak
5	7206.000	8.74	36.07	41.58	50.57	53.80	74.00	-20.20	peak
6	9608.000	10.81	37.67	38.57	43.05	52.96	74.00	-21.04	peak



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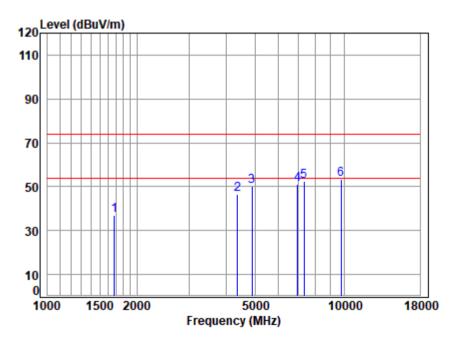
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Report No.: SZEM200900987302

Page: 38 of 54

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 09873CR Mode : 2440 TX SE

Note : BLE

		_							
		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	1677.621	3.41	26.58	40.62	47.40	36.77	74.00	-37.23	peak
2	4367.058	6.64	33.37	42.45	49.04	46.60	74.00	-27.40	peak
3	4880.000	7.18	34.06	42.82	51.57	49.99	74.00	-24.01	peak
4	6954.852	8.52	35.87	41.71	48.45	51.13	74.00	-22.87	peak
5	7320.000	8.84	36.16	41.52	48.90	52.38	74.00	-21.62	peak
6	9760.000	10.76	37.76	38.35	43.13	53.30	74.00	-20.70	neak



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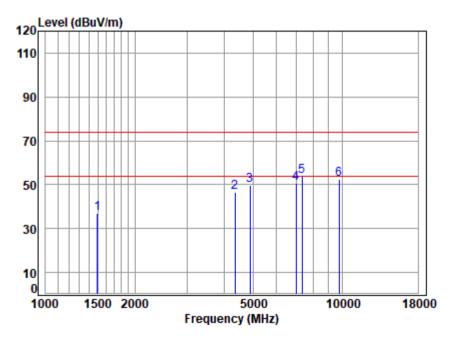
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Report No.: SZEM200900987302

Page: 39 of 54

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 09872CR Mode : 2440 TX SE

Note : BLE

		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	
	4404 455	2.05	05.70	40.50	40.25	26.00	74.00	27.40	
1	1494.455	3.25	25./8	40.50	48.35	36.88	74.00	-3/.12	peak
2	4354.454	6.63	33.35	42.44	49.17	46.71	74.00	-27.29	peak
3	4880.000	7.18	34.06	42.82	51.46	49.88	74.00	-24.12	peak
4	6995.172	8.54	35.90	41.69	47.71	50.46	74.00	-23.54	peak
5	7320.000	8.84	36.16	41.52	50.29	53.77	74.00	-20.23	peak
6	9760.000	10.76	37.76	38.35	42.49	52.66	74.00	-21.34	peak



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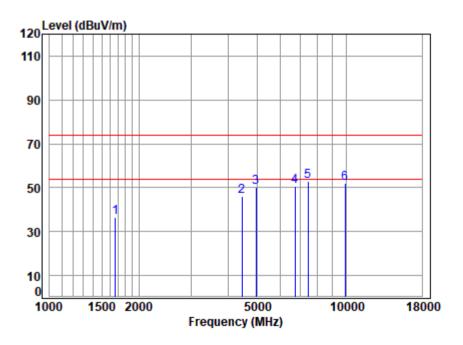
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Report No.: SZEM200900987302

Page: 40 of 54

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 09873CR Mode : 2480 TX SE

Note : BLE

		_							
		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	1667 051	2 40	26 54	10 61	47 22	26 55	74 00	27 AE	noole
1	1667.951								•
2	4456.315	6.72	33.53	42.52	48.23	45.96	74.00	-28.04	peak
3	4960.000	7.26	34.15	42.87	51.74	50.28	74.00	-23.72	peak
4	6717.762	8.40	35.73	41.83	48.32	50.62	74.00	-23.38	peak
5	7440.000	8.96	36.25	41.46	48.96	52.71	74.00	-21.29	peak
6	9920,000	10.71	37.85	38.12	41.77	52.21	74.00	-21.79	neak



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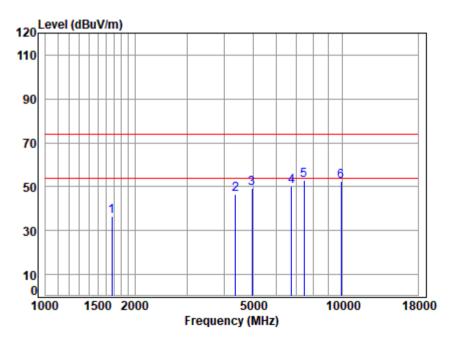
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Page: 41 of 54

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 09873CR Mode : 2480 TX SE

: BLE Note

1000									
		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	1672.779	3.41	26.56	40.62	47.37	36.72	74.00	-37.28	peak
2	4367.058	6.64	33.37	42.45	49.07	46.63	74.00	-27.37	peak
3	4960.000	7.26	34.15	42.87	50.86	49.40	74.00	-24.60	peak
4	6737.207	8.41	35.75	41.82	48.05	50.39	74.00	-23.61	peak
5	7440.000	8.96	36.25	41.46	49.02	52.77	74.00	-21.23	peak
6	9920.000	10.71	37.85	38.12	42.12	52.56	74.00	-21.44	peak



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Page: 42 of 54

8 **Photographs**

8.1 **Test Setup**

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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Report No.: SZEM200900987302

43 of 54 Page:

Appendix 9

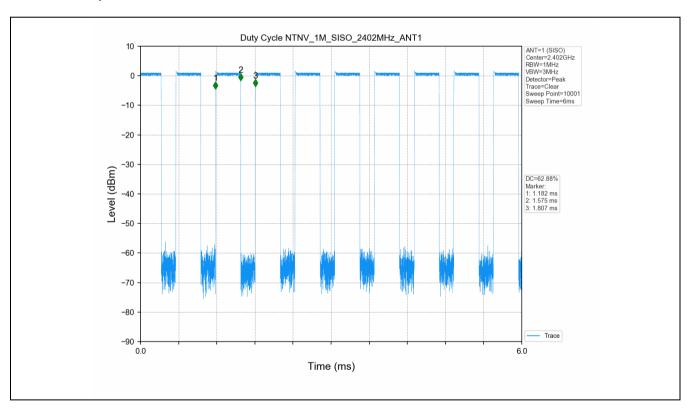
Appendix for 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	TX Type	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

1.2 Test Graph





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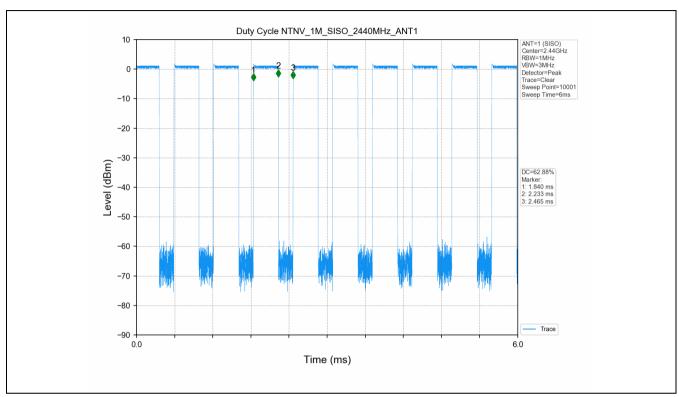
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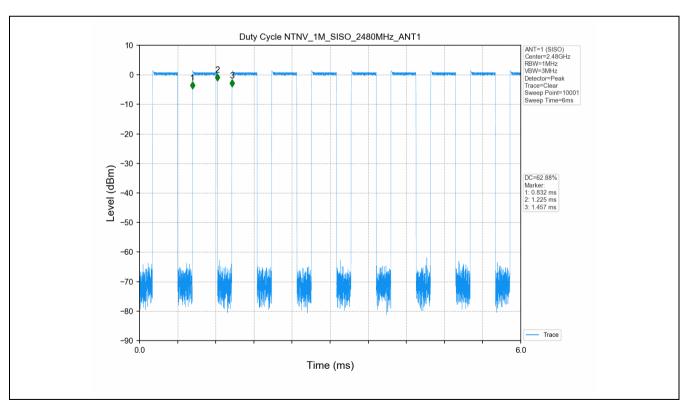
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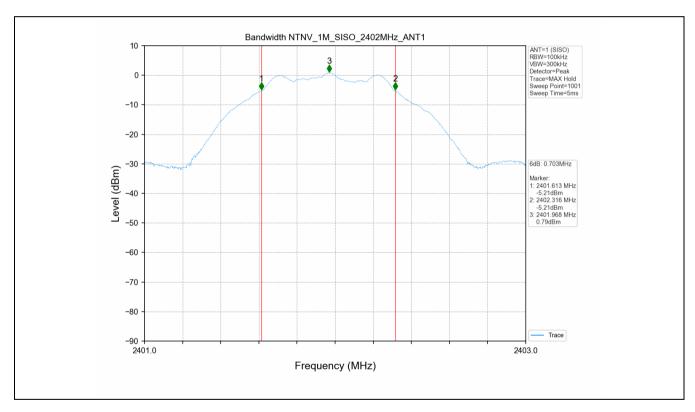
Page: 45 of 54

2. Bandwidth

2.1 Test Result

Toot Mode	Frequency	TV Tuno	ANT No	6dB Bandwidth	Verdict
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	verdici
	2402	SISO	1	0.703	PASS
1M	2440	SISO	1	0.702	PASS
	2480	SISO	1	0.692	PASS

2.2 Test Graph - 6dB Bandwidth





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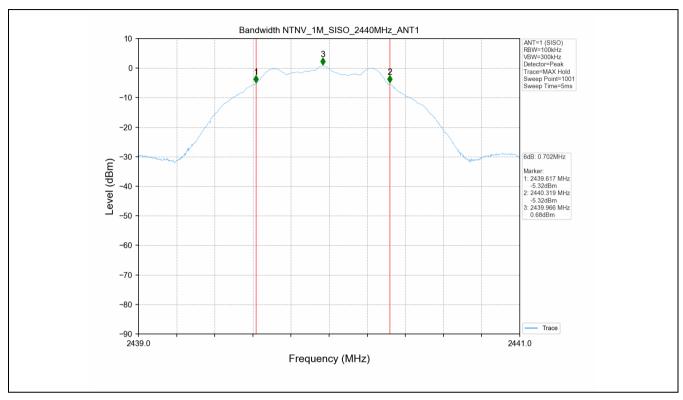
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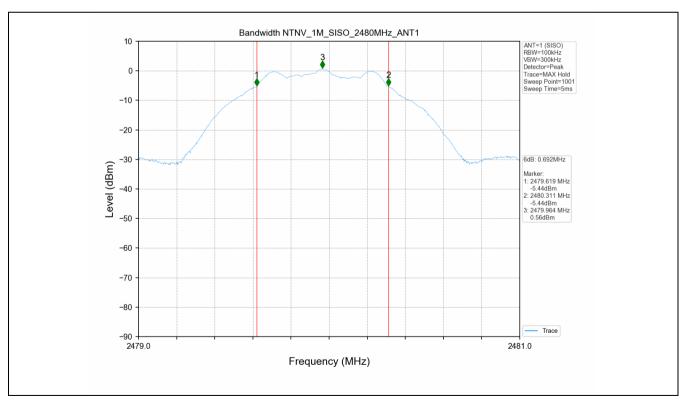
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Report No.: SZEM200900987302

Page: 47 of 54

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	1.72	30	PASS
1M	2440	SISO	1.61	30	PASS
	2480	SISO	1.51	30	PASS



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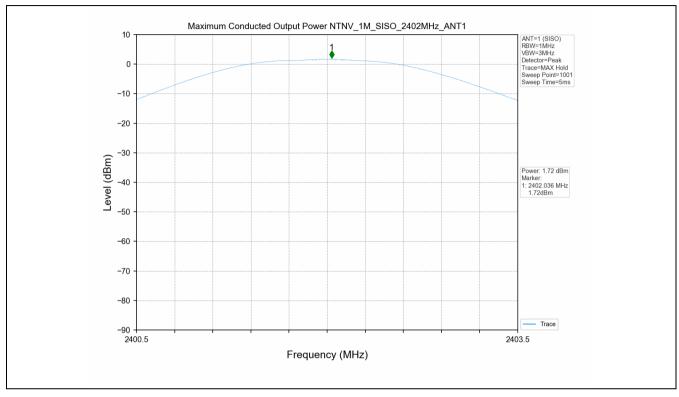
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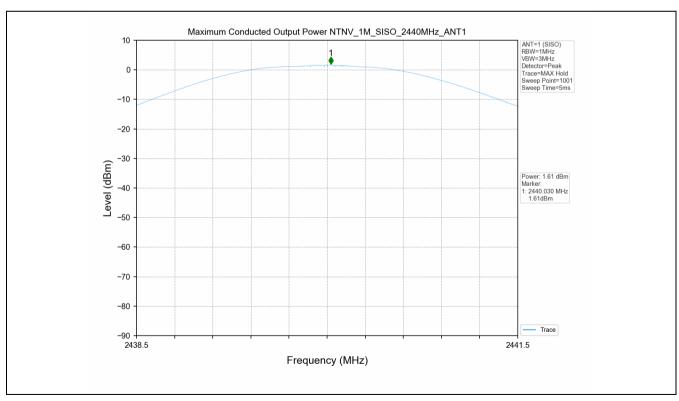


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Page: 48 of 54

3.2 Test Graph







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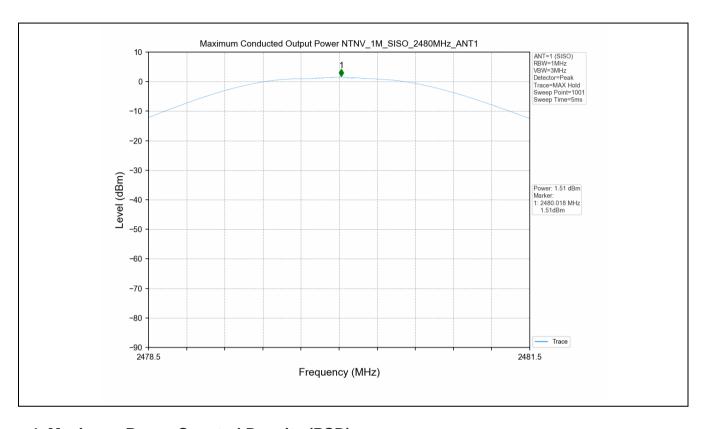
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Report No.: SZEM200900987302

Page: 49 of 54



4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2402	SISO	-14.68	≤8	PASS
1M	2440	SISO	-14.86	≤8	PASS
	2480	SISO	-14.92	≤8	PASS



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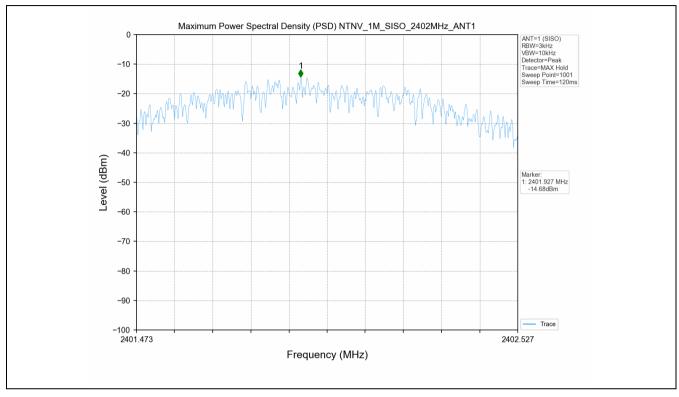
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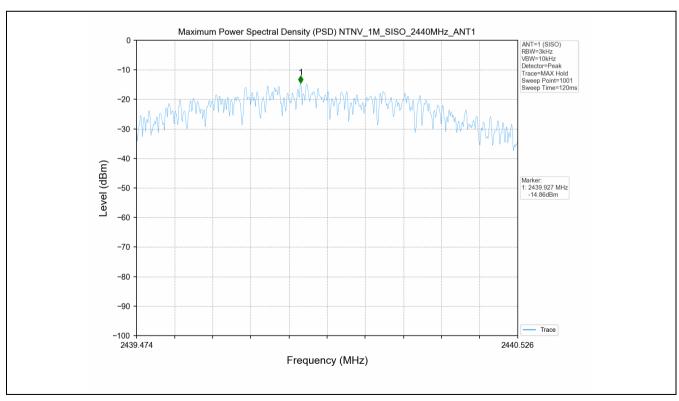


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4.2 Test Graph







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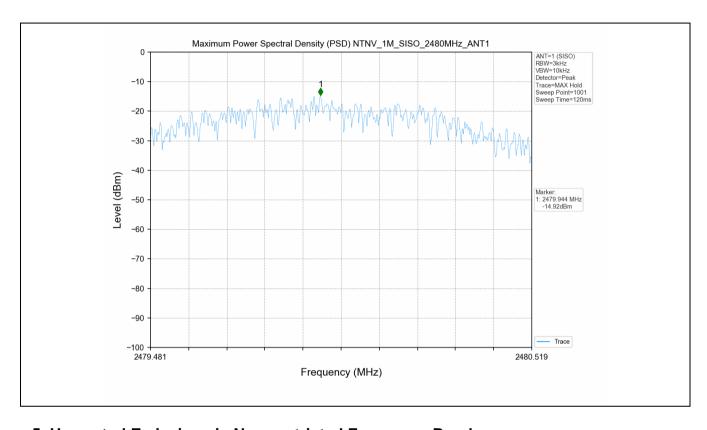
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Page: 51 of 54



5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-19.20	PASS
1M	2440	SISO	1	Refer to test graph	-19.20	PASS
	2480	SISO	1	Refer to test graph	-19.20	PASS



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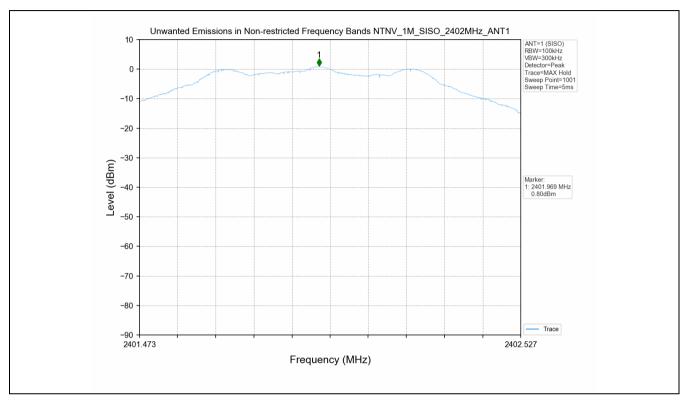
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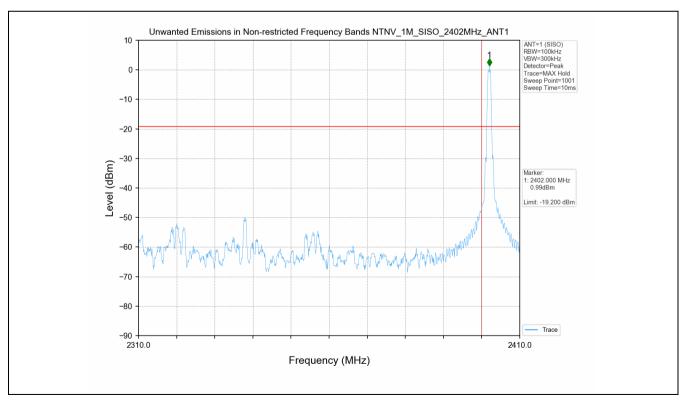


Report No.: SZEM200900987302

Page: 52 of 54

5.2 Test Graph







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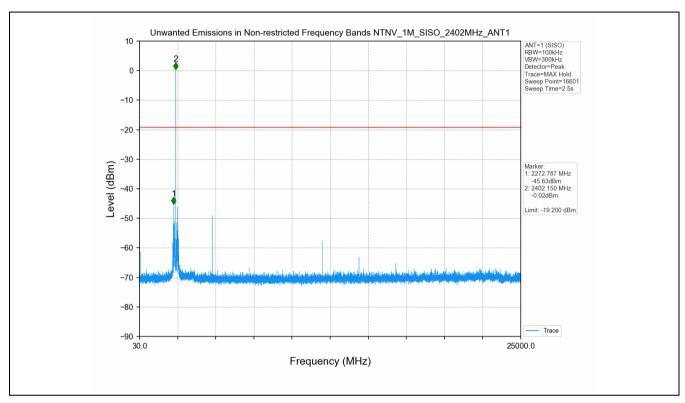
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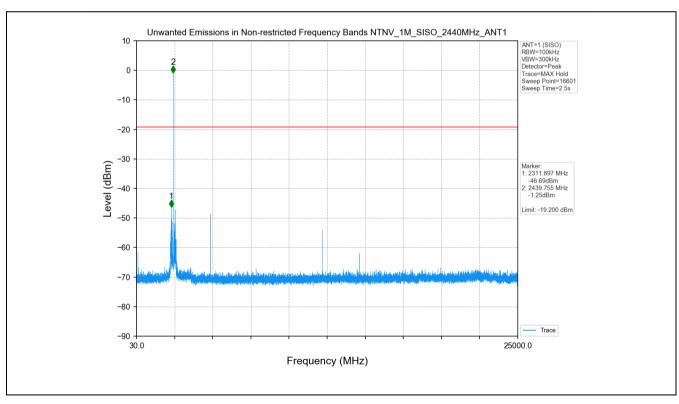
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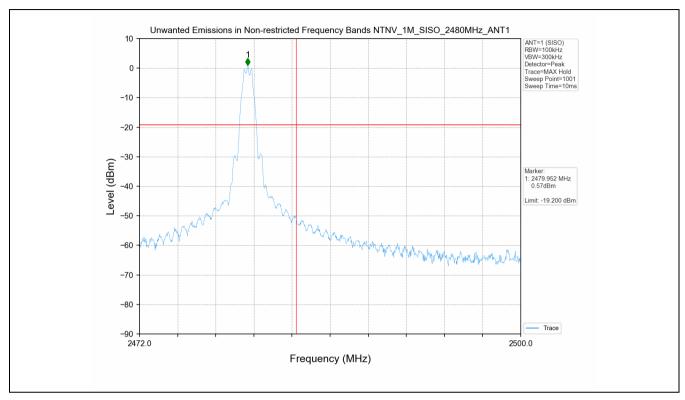
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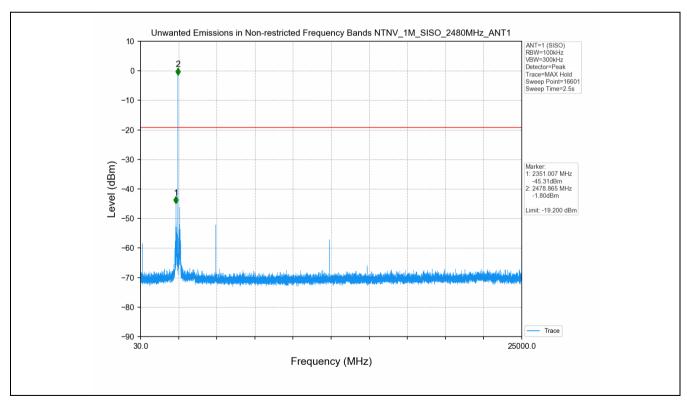
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Page: 54 of 54





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