

Report No.: SZEM191101987801

1 of 40 Page:

TEST REPORT

Application No.: SZEM1911019878CR

Applicant: Wintop Electronics Co., Limited

Address of Applicant: Flat 2,8/F Workingport Com'L Bldg,3 Hau Fook ST, Tsim Sha Tsui, Kln,

Hong Kong

Manufacturer: Shenzhen Wintop Electronics Co., Ltd

Room 402 Building 1 No.34 XinHe Road, No. 46, Xinhe Road, Floor 4 No.50 Address of Manufacturer:

XinHe Road ShangMuGu Community, PingHu Street, LongGang District,

ShenZhen City, GuangDong Province, China

Equipment Under Test (EUT):

EUT Name: Wireless Mouse

Model No.: WM-101

FCC ID: 2AB75-WM101

47 CFR Part 15, Subpart C 15.249 Standard(s):

Date of Receipt: 2019-11-05

2019-11-19 to 2019-12-10 Date of Test:

Date of Issue: 2019-12-12

Pass* **Test Result:**

EMC Laboratory Manager

Ceny. Ku



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



Report No.: SZEM191101987801

Page: 2 of 40

	Revision Record						
Version	Version Chapter Date Modifier Rema						
01		2019-12-12		Original			

Authorized for issue by:		
	Bim chen	
	Bill Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Report No.: SZEM191101987801

Page: 3 of 40

Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass		
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		



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Report No.: SZEM191101987801

Page: 4 of 40

Contents

		Page
1	1 COVER PAGE	1
2	2 TEST SUMMARY	3
3	3 CONTENTS	4
4	4 GENERAL INFORMATION	5
	4.1 DETAILS OF E.U.T	5
	4.2 DESCRIPTION OF SUPPORT UNITS	5
	4.3 Measurement Uncertainty	5
	4.4 Test Location	
	4.5 Test Facility	
	4.6 DEVIATION FROM STANDARDS	
	4.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
5	5 EQUIPMENT LIST	7
6	6 RADIO SPECTRUM TECHNICAL REQUIREMENT	11
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
7	7 RADIO SPECTRUM MATTER TEST RESULTS	12
	7.1 20dB Bandwidth	12
	7.1.1 E.U.T. Operation	
	7.1.2 Test Setup Diagram	
	7.1.3 Measurement Procedure and Data	
	7.2 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A))	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Setup Diagram	
	7.2.3 Measurement Procedure and Data	
	7.3 RESTRICTED BAND AROUND FUNDAMENTAL FREQUENCY	
	7.3.1 E.U.T. Operation	
	7.3.3 Measurement Procedure and Data	
	7.4 RADIATED EMISSIONS	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Setup Diagram	
	7.4.3 Measurement Procedure and Data	
8	8 PHOTOGRAPHS	40
	8.1 TEST SETUP	40
	8.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	40



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Report No.: SZEM191101987801

Page: 5 of 40

General Information

Details of E.U.T.

Power Supply:	Mouse:DC 3.0V by 1.5V x 2"AAA" batteries
Operation Frequency:	2405MHz-2475MHz
Modulation Type:	GFSK
Number of Channels:	8
Antenna Type:	PCB Antenna
Antenna Gain:	1.6dBi

Operation Fr	Operation Frequency each of channel							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency						Frequency		
1	2405MHz	3	2417MHz	5	2457MHz	7	2469MHz	
2	2411MHz	4	2451MHz	6	2463MHz	8	2475MHz	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	2405MHz
The Middle channel(CH5)	2451MHz
The Highest channel(CH8)	2475MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Duty cycle	± 0.37%
2	20dB Bandwidth	± 3%
3	E-Field	± 4.5dB (Below 1GHz)
4	Dadiated Couries amission test	± 4.5dB (Below 1GHz)
4	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
5	Temperature test	± 1℃
6	Humidity test	± 3%
7	Supply voltages	± 1.5%
8	Time	± 3%



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Report No.: SZEM191101987801

Page: 6 of 40

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.

VCCI

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

4.7 Abnormalities from Standard Conditions

None



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Report No.: SZEM191101987801

Page: 7 of 40

Equipment List 5

20dB 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	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06	
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20	
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07	

Field Strength of the Fundamental Signal (15.249(a))						
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	2019-07-11	2020-07-10	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	



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Report No.: SZEM191101987801

Page: 8 of 40

Restricted Band Around Fundamental Frequency						
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	2019-07-11	2020-07-10	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	

Restricted Band Around	Restricted Band Around Fundamental Frequency								
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	2019-07-11	2020-07-10				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11				
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12				
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16				
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23				
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31				
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31				
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23				



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Report No.: SZEM191101987801

Page: 9 of 40

Active Loop Antenna ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
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Radiated 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	2019-07-11	2020-07-10	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25		



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Report No.: SZEM191101987801

Page: 10 of 40

Humidity/ Temperature Indicator	Shanghai Meteorological	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
muicatui	Industry Factory				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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Report No.: SZEM191101987801

Page: 11 of 40

Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently

attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.6dBi.

Antenna location: Refer to Appendix(Internal photos)



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Report No.: SZEM191101987801

Page: 12 of 40

7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

Limit: N/A

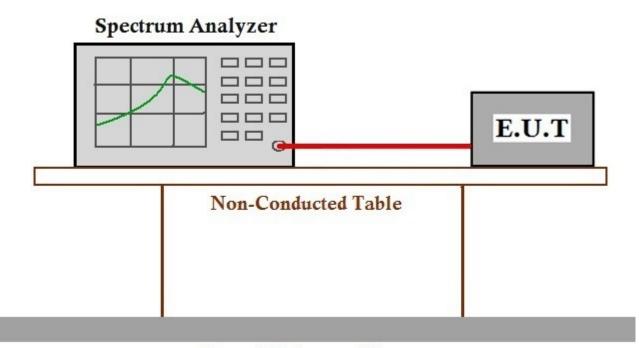
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52.4 % RH Atmospheric Pressure: 1015 mbar

Test Mode: a:TX mode(Mouse) _Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.587	Pass
Middle	2.615	Pass
Highest	2.615	Pass



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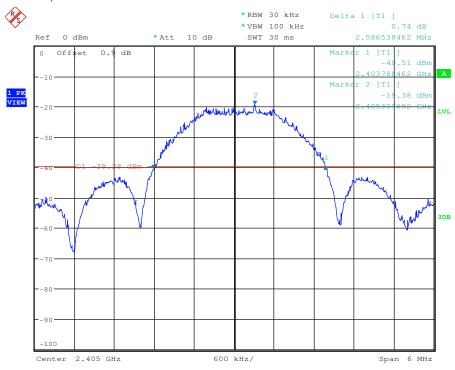
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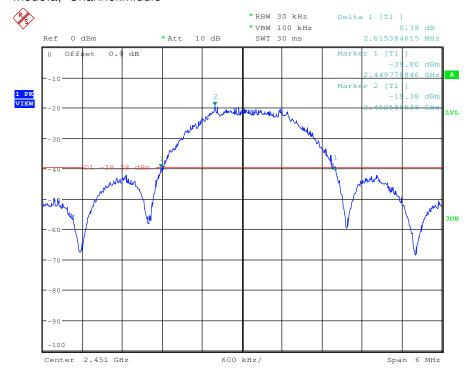
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Page: 13 of 40

Mode:a; Channel:Low



Mode:a; Channel:middle





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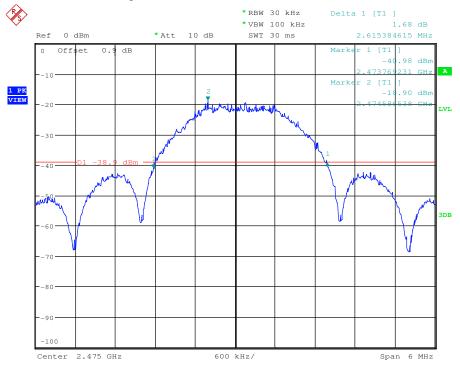
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Page: 14 of 40

Mode:a; Channel:High





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Report No.: SZEM191101987801

Page: 15 of 40

7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz 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 fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.





Report No.: SZEM191101987801

Page: 16 of 40

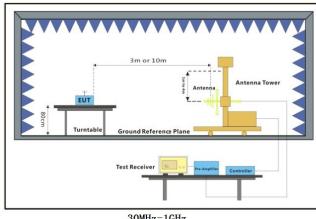
7.2.1 E.U.T. Operation

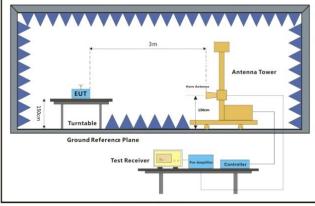
Operating Environment:

Humidity: 51 % RH Temperature: 25 °C Atmospheric Pressure: 1015 mbar

Test Mode: a:TX mode(Mouse) Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.2.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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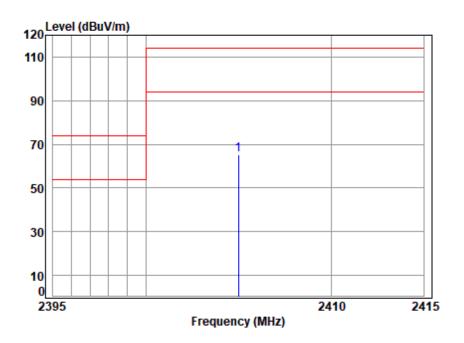
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Report No.: SZEM191101987801

Page: 17 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2405 Field strength

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark Freq

MHz dB dB dBuV dBuV/m dBuV/m dB/m dB

2405.000 5.49 28.54 40.98 72.32 65.37 114.00 -48.63 peak



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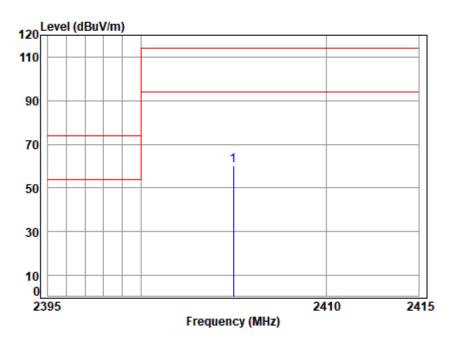
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Report No.: SZEM191101987801

Page: 18 of 40

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



Site : chamber Condition: 3m VERTICAL : 19878CR Job No

Mode : 2405 Field strength

Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark Freq

MHz dB dB dBuV dBuV/m dBuV/m dB/m dB

2405.000 5.49 28.54 40.98 67.39 60.44 114.00 -53.56 peak



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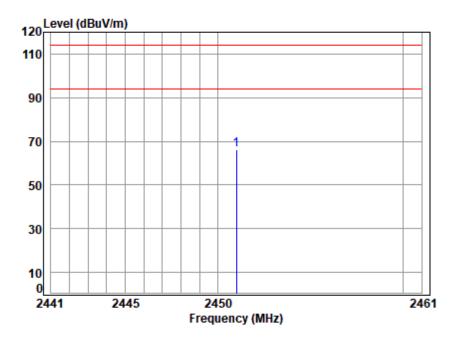
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Report No.: SZEM191101987801

Page: 19 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2451 Field strength

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark Freq

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

2451.000 5.56 28.62 41.00 72.81 65.99 114.00 -48.01 peak



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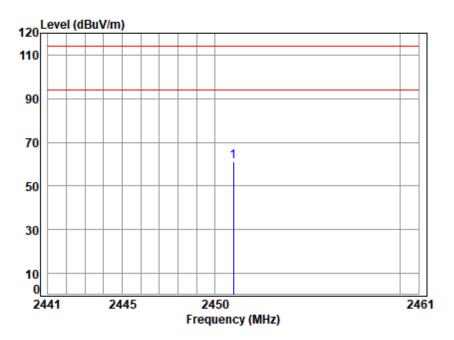
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Report No.: SZEM191101987801

Page: 20 of 40

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



Site : chamber Condition: 3m VERTICAL : 19878CR Job No

Mode : 2451 Field strength

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark Freq

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

2451.000 5.56 28.62 41.00 67.86 61.04 114.00 -52.96 peak



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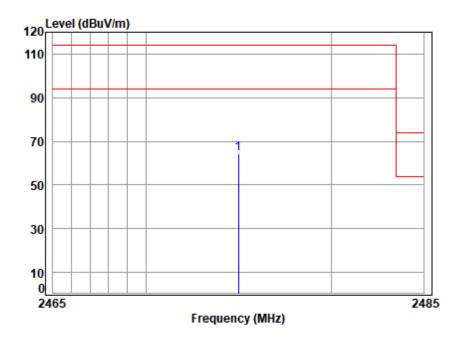
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Report No.: SZEM191101987801

Page: 21 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2475 Field strength

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark Freq

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

2475.000 5.59 28.66 41.01 71.14 64.38 114.00 -49.62 peak



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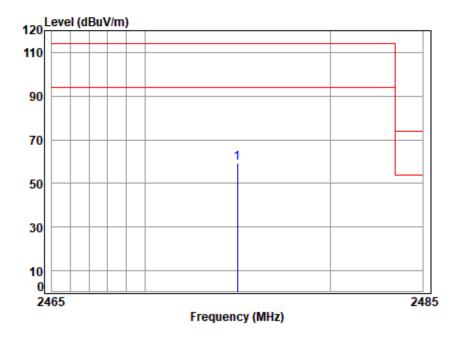
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Report No.: SZEM191101987801

Page: 22 of 40

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



: chamber Site Condition: 3m VERTICAL Job No : 19878CR

2475.000

Mode : 2475 Field strength

> Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB dB

> > 5.59 28.66 41.01 66.07 59.31 114.00 -54.69 peak

Remark:

1

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

2) 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. So, only the above measurement data were shown in the report.



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Report No.: SZEM191101987801

Page: 23 of 40

7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

ANSI C63.10 (2013) Section 6.4&6.5&6.6 Test Method:

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.



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Report No.: SZEM191101987801

Page: 24 of 40

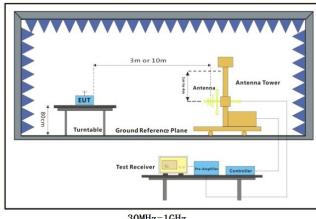
7.3.1 E.U.T. Operation

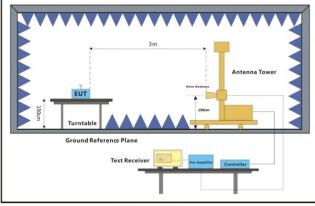
Operating Environment:

Humidity: 43.6 % RH Temperature: 21.9 °C Atmospheric Pressure: 1020 mbar

Test Mode: a:TX mode(Mouse) Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.3.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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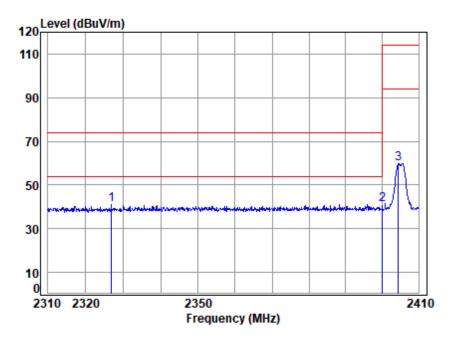
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Report No.: SZEM191101987801

Page: 25 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 19878CR

Mode : 2405 Band edge

ouc	. 270	JJ Dani	u cugc							
		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	2326.801	5.39	28.41	40.95	48.35	41.20	74.00	-32.80	Peak	
2	2400.000	5.48	28.53	40.97	48.02	41.06	74.00	-32.94	peak	
3	2404 491	5 49	28 54	40 98	66 83	59 88	114 00	-54 12	neak	



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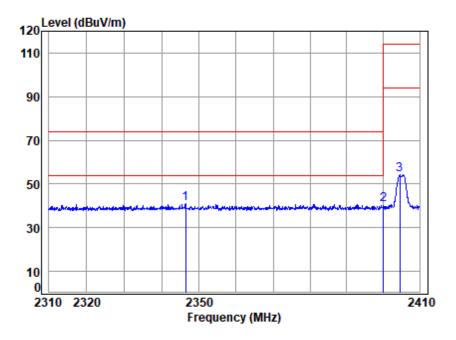
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Report No.: SZEM191101987801

Page: 26 of 40

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



Site : chamber Condition: 3m VERTICAL : 19878CR Job No

Mode : 2405 Band edge

oue	. 240	יסט כע	u euge							
		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	2346.407	5.42	28.44	40.95	47.97	40.88	74.00	-33.12	Peak	
2	2400.000	5.48	28.52	40.97	47.78	40.81	74.00	-33.19	peak	
3	2404.593	5.49	28.54	40.98	61.21	54 26	114 00	-59 74	neak	



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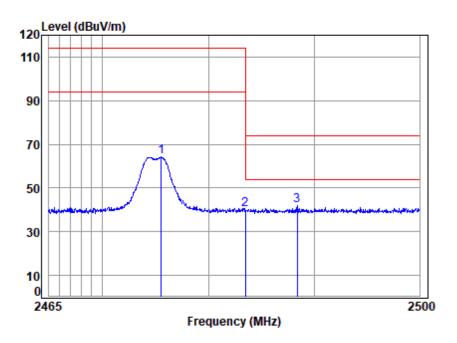
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Report No.: SZEM191101987801

Page: 27 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2475 Band edge

Jue	. 24	o Dall	u euge							
		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	2475.553	5.59	28.66	41.01	70.94	64.18	114.00	-49.82	peak	
2	2483.500	5.60	28.67	41.01	46.67	39.93	74.00	-34.07	peak	
3	2488.396	5.60	28.68	41.01	48.55	41.82	74.00	-32.18	Peak	



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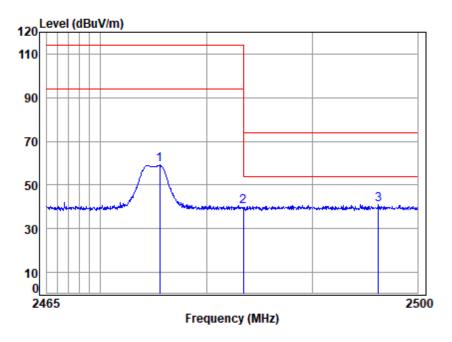
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Report No.: SZEM191101987801

Page: 28 of 40

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



Site : chamber Condition: 3m VERTICAL Job No : 19878CR

Mode : 2475 Band edge

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2475.588	5.59	28.66	41.01	65.95	59.19	114.00	-54.81	peak
2	2483.500	5.60	28.67	41.01	46.84	40.10	74.00	-33.90	peak
3	2496.302	5.62	28.69	41.02	47.66	40.95	74.00	-33.05	Peak

Remark:

3) 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

4) 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. So, only the above measurement data were shown in the report.



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Report No.: SZEM191101987801

Page: 29 of 40

7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)			300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3



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Page: 30 of 40

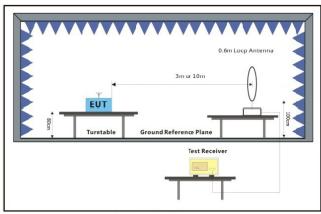
7.4.1 E.U.T. Operation

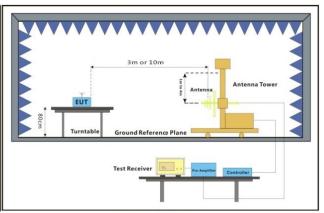
Operating Environment:

Temperature: Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

Test Mode: a:TX mode(Mouse) _Keep the EUT in transmitting with modulation mode.

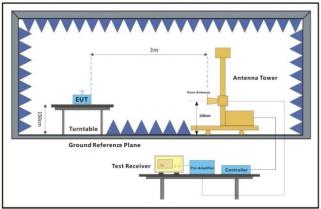
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM191101987801

Page: 31 of 40

7.4.3 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.
- a. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the 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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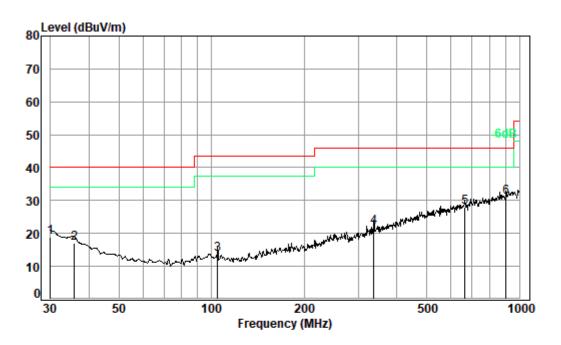


Report No.: SZEM191101987801

Page: 32 of 40

30MHz~1GHz QP value:

Mode: a; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 19878CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.73	23.57	18.94	40.00	-21.06
2	35.87	0.60	19.39	27.72	24.86	17.13	40.00	-22.87
3	104.54	1.21	13.78	27.61	26.36	13.74	43.50	-29.76
4	336.04	2.02	20.70	27.10	26.38	22.00	46.00	-24.00
5	665.80	2.84	27.48	28.01	25.72	28.03	46.00	-17.97
6 pp	903.31	3.60	29.82	27.28	24.74	30.88	46.00	-15.12



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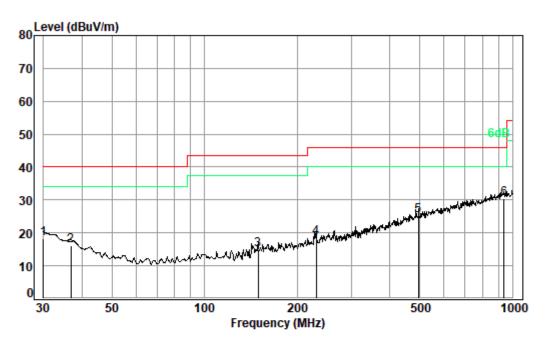
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Report No.: SZEM191101987801

Page: 33 of 40

Mode :a; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 19878CR

Test mode: a

			. Ant					0ver
	Fr	eq Loss	Factor	Factor	Level	Level	Line	Limit
	М	Hz dE	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.	0.60	22.50	27.73	22.96	18.33	40.00	-21.67
2	36.	77 0.60	18.97	27.71	24.12	15.98	40.00	-24.02
3	149.	49 1.32	14.58	27.37	26.36	14.89	43.50	-28.61
4	230.	91 1.58	18.09	27.07	25.98	18.58	46.00	-27.42
5	495.	93 2.59	24.52	27.82	25.94	25.23	46.00	-20.77
6 p	p 938.	83 3.64	30.00	27.14	24.05	30.55	46.00	-15.45



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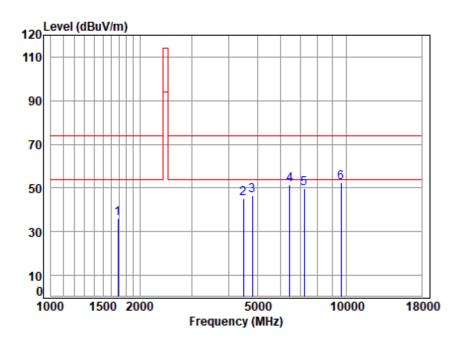


Report No.: SZEM191101987801

Page: 34 of 40

Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2405 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	5.24	26.62	40.62	44.71	35.95	74.00	-38.05	peak
2	4495.125	7.55	33.60	42.55	46.66	45.26	74.00	-28.74	peak
3	4810.000	7.90	34.17	42.77	47.07	46.37	74.00	-27.63	peak
4	6451.353	11.45	35.06	41.98	47.22	51.75	74.00	-22.25	peak
5	7215.000	10.07	36.41	41.57	44.90	49.81	74.00	-24.19	peak
6	9620.000	10.75	37.52	38.56	42.62	52.33	74.00	-21.67	peak



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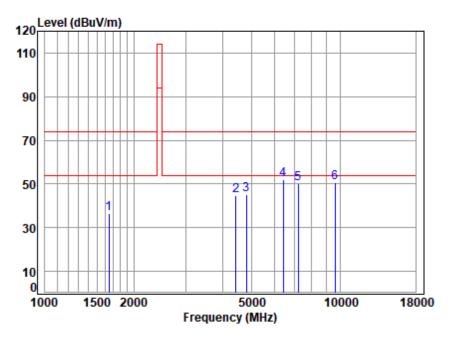
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Report No.: SZEM191101987801

Page: 35 of 40

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



Site : chamber Condition: 3m VERTICAL : 19878CR Job No Mode : 2405 TX RSE

		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	1648.778	5.29	26.46	40.60	45.35	36.50	74.00	-37.50	peak
2	4430.628	7.48	33.60	42.50	46.23	44.81	74.00	-29.19	peak
3	4810.000	7.90	34.17	42.77	46.04	45.34	74.00	-28.66	peak
4	6414.167	11.38	35.03	42.00	47.56	51.97	74.00	-22.03	peak
5	7215.000	10.07	36.41	41.57	45.40	50.31	74.00	-23.69	peak
6	9620.000	10.75	37.52	38.56	41.15	50.86	74.00	-23.14	peak



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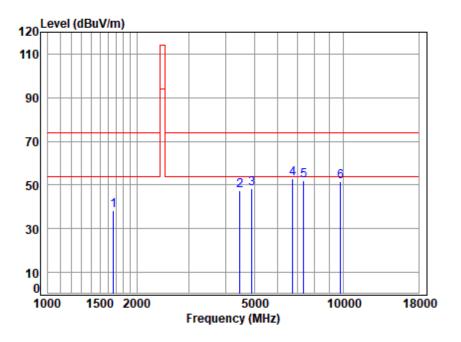
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Report No.: SZEM191101987801

Page: 36 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2451 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	40.61	46.99	38.19	74.00	-35.81	peak
2	4469.214	7.53	33.60	42.53	48.86	47.46	74.00	-26.54	peak
3	4902.000	7.99	34.33	42.83	48.84	48.33	74.00	-25.67	peak
4	6756.708	10.80	35.83	41.81	48.04	52.86	74.00	-21.14	peak
5	7353.000	10.04	36.36	41.51	47.21	52.10	74.00	-21.90	peak
6	9804.000	10.84	37.56	38.29	41.45	51.56	74.00	-22.44	peak



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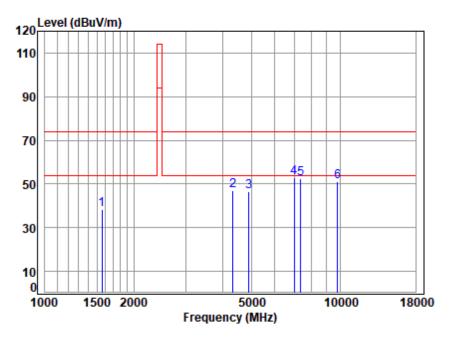
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Report No.: SZEM191101987801

Page: 37 of 40

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



Site : chamber Condition: 3m VERTICAL : 19878CR Job No

Mode : 2451 TX RSE

		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	1560.673	5.40	26.08	40.55	47.18	38.11	74.00	-35.89	peak
2	4341.886	7.38	33.60	42.43	48.29	46.84	74.00	-27.16	peak
3	4902.000	7.99	34.33	42.83	47.27	46.76	74.00	-27.24	peak
4	6974.982	10.20	36.43	41.70	47.86	52.79	74.00	-21.21	peak
5	7353.000	10.04	36.36	41.51	47.47	52.36	74.00	-21.64	peak
6	9804.000	10.84	37.56	38.29	40.95	51.06	74.00	-22.94	peak



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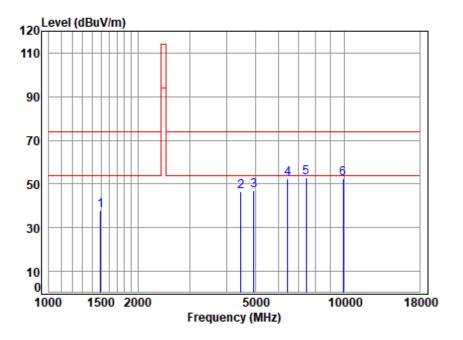
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Report No.: SZEM191101987801

Page: 38 of 40

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



Site : chamber

Condition: 3m HORIZONTAL

: 19878CR Job No

Mode : 2475 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	5.46	25.78	40.50	46.92	37.66	74.00	-36.34	peak
2	4469.214	7.53	33.60	42.53	47.91	46.51	74.00	-27.49	peak
3	4950.000	8.04	34.41	42.87	47.56	47.14	74.00	-26.86	peak
4	6451.353	11.45	35.06	41.98	47.97	52.50	74.00	-21.50	peak
5	7425.000	10.02	36.33	41.47	47.96	52.84	74.00	-21.16	peak
6	9900.000								•



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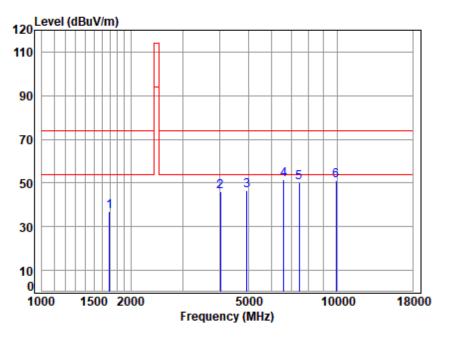
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Report No.: SZEM191101987801

Page: 39 of 40

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



Site : chamber Condition: 3m VERTICAL : 19878CR Job No Mode : 2475 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						4D: A//	JD: 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1692.231	5.24	26.64	40.63	45.66	36.91	74.00	-37.09	peak
2	4027.554	7.01	33.60	42.18	47.54	45.97	74.00	-28.03	peak
3	4950.000	8.04	34.41	42.87	46.80	46.38	74.00	-27.62	peak
4	6583.209	11.30	35.34	41.91	46.83	51.56	74.00	-22.44	peak
5	7425.000	10.02	36.33	41.47	45.32	50.20	74.00	-23.80	peak
6	9900.000	10.89	37.58	38.14	40.92	51.25	74.00	-22.75	peak



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Page: 40 of 40

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.

- End of the Report -



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