

Report No.: GZEM200301082701

Page: 1 of 49 FCC ID: 2AGE3-84103

### TEST REPORT

Application No.: GZEM2003010827CR

Applicant: Guilin Gemred Sensor Technology Co., Ltd

Address of Applicant: No.D-08, Information Industrial Park, Chaoyang Road Qixing District, Guilin City,

Guangxi zhuang

Manufacturer:The same as applicantAddress of Manufacturer:The same as applicantFactory:The same as applicantAddress of Factory:The same as applicant

**Equipment Under Test (EUT):** 

**FCC ID:** 2AGE3-84103

**EUT Name:** Digital Body Tape Measure

Model No.: 84103 Trade Mark: GEMRED

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

**Date of Receipt:** 2020-03-11

**Date of Test:** 2020-03-18 to 2020-03-19

**Date of Issue:** 2020-03-23

Test Result: Pass\*

Kobe Jian EMC Laboratory Manager



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



Report No.: GZEM200301082701

Page: 2 of 49

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2020-03-23		Original	

Authorized for issue by:			
Tested By	Cily Knang	2020-03-18 to 2020-03-19	
	Lily_Kuang /Project Engineer	Date	
Checked By	3	2020-03-23	
	Jerry_Chan /Reviewer	Date	



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Report No.: GZEM200301082701

Page: 3 of 49

### 2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	Class B	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass		

Radio Spectrum Matt	Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result				
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass				
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass				
Power Spectrum  Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass				
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass				
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass				
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass				
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass				



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Report No.: GZEM200301082701

Page: 4 of 49

### 3 Contents

			Page
1	Cove	er Page	
2	Test	t Summary	3
3	Conf	tents	
4	Gon	eral Information	á
7			
	4.1 4.2	Details of E.U.T	
	4.2 4.3	Measurement Uncertainty	
	4.4	Test Location	
	4.5	Test Facility	
	4.6	Deviation from Standards	
	4.7	Abnormalities from Standard Conditions	
5	Equi	ipment List	
J	Lqui	ipinent List	
6	Radi	io Spectrum Technical Requirement	12
	6.1	Antenna Requirement	12
	6.1.1	·	
	6.1.2	2 Conclusion	12
7	Radi	io Spectrum Matter Test Results	13
	7.1	Minimum 6dB Bandwidth	
	7.1.1		
	7.1.2	·	
	7.1.3	i Ç	
	7.2	Conducted Peak Output Power	14
	7.2.1	1 E.U.T. Operation	14
	7.2.2	=	
	7.2.3		
	7.3	Power Spectrum Density	
	7.3.1 7.3.2	· ·	
	7.3.2	i Ç	
	7.5.5	Conducted Band Edges Measurement	
	7.4.1		
	7.4.2	· ·	
	7.4.3	Measurement Procedure and Data	16
	7.5	Conducted Spurious Emissions	17
	7.5.1	·	
	7.5.2	1 0	
	7.5.3		
	7.6	Radiated Emissions which fall in the restricted bands	
	7.6.1		
	7.6.2 7.6.3	, ,	
	7.0.3	MICAGUICITICITE I TOCCUUTC AND DATA	18



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Report No.: GZEM200301082701

Page: 5 of 49

	7.7	Radiated Spurious Emissions	24
		E.U.T. Operation	
		Part Setup Diagram	
		Measurement Procedure and Data	
8	Appe	endix	35
	8.1	Appendix 15.247	35



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Report No.: GZEM200301082701

Page: 6 of 49

### 4 General Information

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

Power Supply: DC3V Antenna Gain 0 dBi

Antenna Type Integrated antenna

Channel Spacing 2MHz
Modulation Type GFSK
Number of Channels 40

Operation Frequency 2402MHz to 2480MHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	IBM	T30	S/N78-3VMLX 06/01

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10 <sup>-8</sup>
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
,	nr naulateu rowei	±4.8dB (above 1GHz)
8	Padiated Spurious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4℃
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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Page: 7 of 49

### 4.5 Test Facility

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

#### ● NVLAP (Lab Code: 200611-0)

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

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

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

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

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

#### ● CNAS (Lab Code: L0167)

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

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

### ◆FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

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

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

#### ●Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)

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

#### ● VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

#### ● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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Report No.: GZEM200301082701

Page: 8 of 49

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Page: 9 of 49

### 5 Equipment List

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	M8.0	EMC2136	2019-11-02	2021-11-01	
MI CABLE	SGS	M8.0	EMC2137	2019-11-02	2021-11-01	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	M8.0	EMC2136	2019-11-02	2021-11-01	
MI CABLE	SGS	0.8M	EMC2137	2019-11-02	2021-11-01	

Power Spectrum Density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	0.8M	EMC2136	2019-11-02	2021-11-01	
MI CABLE	SGS	0.8M	EMC2137	2019-11-02	2021-11-01	

Conducted Band Edges	Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	20120-03-02	2021-03-01			
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04			
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25			
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2019-05-29	2020-05-28			
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2019-05-29	2020-05-28			
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17			
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03			
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A			
MI CABLE	SGS	0.8M	EMC2136	2019-11-02	2021-11-01			
MI CABLE	SGS	0.8M	EMC2137	2019-11-02	2021-11-01			



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Report No.: GZEM200301082701

Page: 10 of 49

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	M8.0	EMC2136	2019-11-02	2021-11-01	
MI CABLE	SGS	M8.0	EMC2137	2019-11-02	2021-11-01	

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09	
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09	
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27	
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05	
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03	
Horn Antenna 1GHz-18GHz	R& S	HF906	EMC0518	2018-09-02	2021-09-01	
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-07	2021-01-08	
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28	
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17	
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04	
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18	
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17	
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17	
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	



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Report No.: GZEM200301082701

Page: 11 of 49

Radiated Spurious Emissions						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09	
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09	
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27	
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05	
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03	
Horn Antenna 1GHz-18GHz	R& S	HF906	EMC0518	2018-09-02	2021-09-01	
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-07	2021-01-08	
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28	
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17	
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04	
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18	
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17	
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17	
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	

General used equipment					
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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Report No.: GZEM200301082701

Page: 12 of 49

### 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### Standard Requirement:

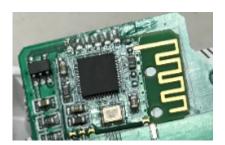
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

### 15.247(b) (4) requirement:

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

#### **EUT Antenna:**

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





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Report No.: GZEM200301082701

Page: 13 of 49

### 7 Radio Spectrum Matter Test Results

#### 7.1 Minimum 6dB Bandwidth

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

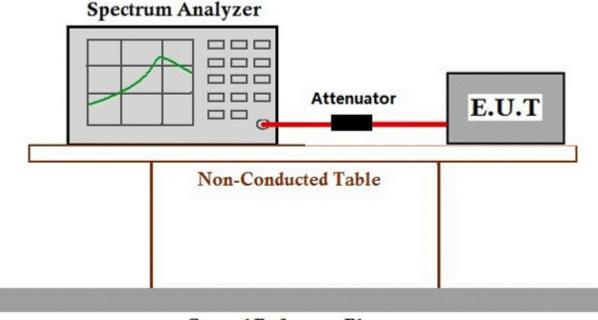
Limit: ≥500 kHz

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

Operating Environment:

Temperature: 23.5 °C Humidity: 62.5 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

### 7.1.2 Test Setup Diagram



### Ground Reference Plane

#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200301082701

Page: 14 of 49

### 7.2 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:

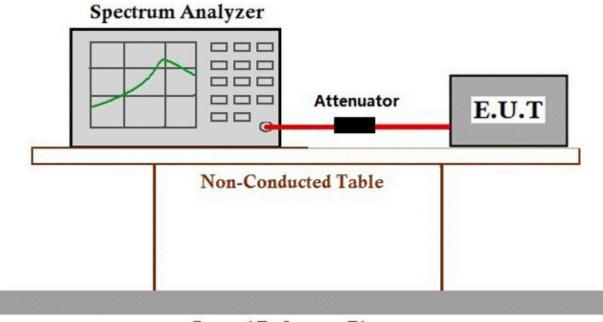
Frequency range(MHz)	Hz) Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation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

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

Operating Environment:

Temperature: 23.5 °C Humidity: 62.4 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK 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.: GZEM200301082701

Page: 15 of 49

### 7.3 Power Spectrum Density

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

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

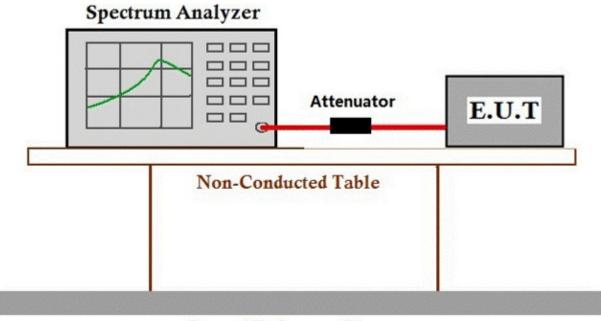
transmission

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

Operating Environment:

Temperature: 23.5 °C Humidity: 62.5 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 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.: GZEM200301082701

Page: 16 of 49

### 7.4 Conducted Band Edges Measurement

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

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

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

§15.205(a), must also comply with the radiated emission limits specified in

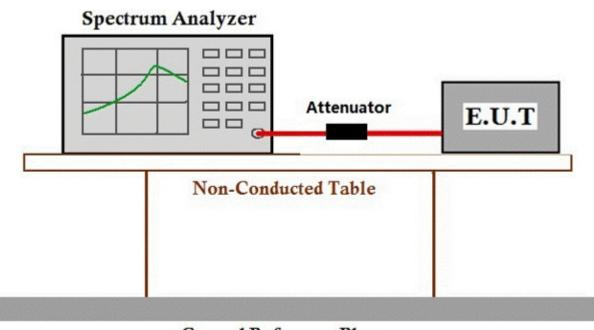
§15.209(a) (see §15.205(c)

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

Operating Environment:

Temperature: 23.5 °C Humidity: 62.6 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.4.2 Test Setup Diagram



### Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200301082701

Page: 17 of 49

### 7.5 Conducted Spurious Emissions

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

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

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

radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in

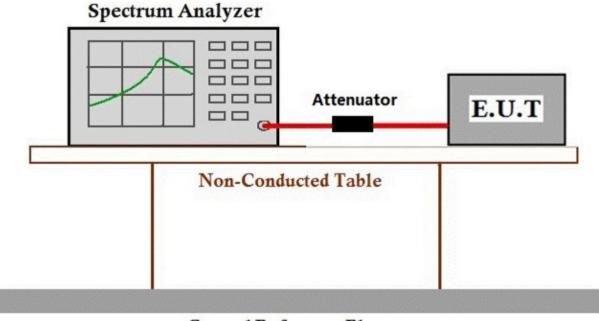
§15.209(a) (see §15.205(c)

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 62.6 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK 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.: GZEM200301082701

Page: 18 of 49

#### 7.6 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

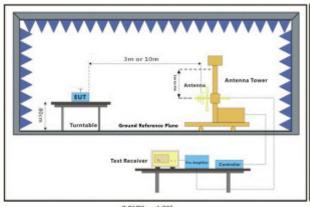
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

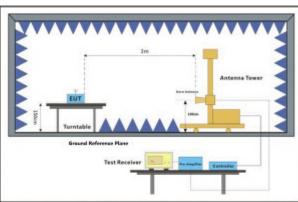
#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 51.1 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.6.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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Report No.: GZEM200301082701

Page: 19 of 49

#### 7.6.3 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.

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



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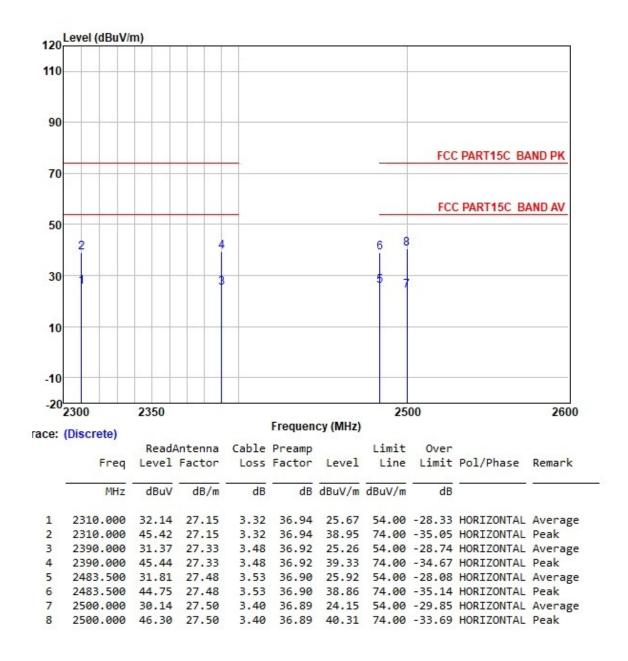
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Page: 20 of 49

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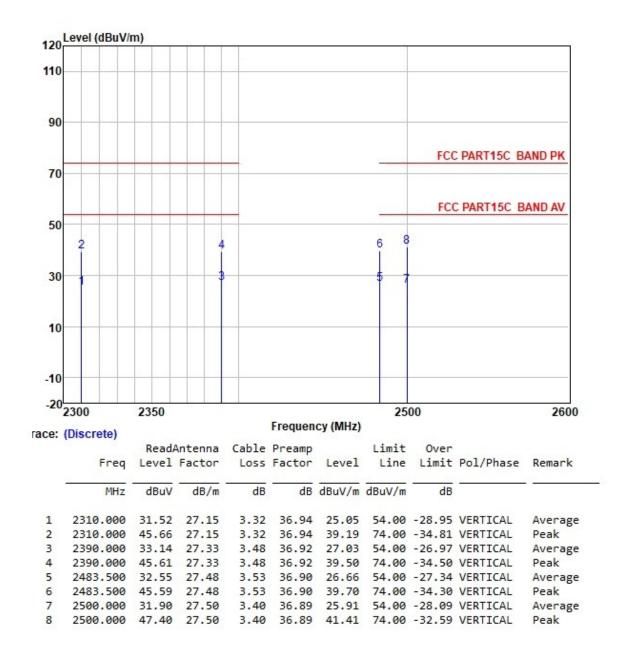
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Report No.: GZEM200301082701

Page: 21 of 49

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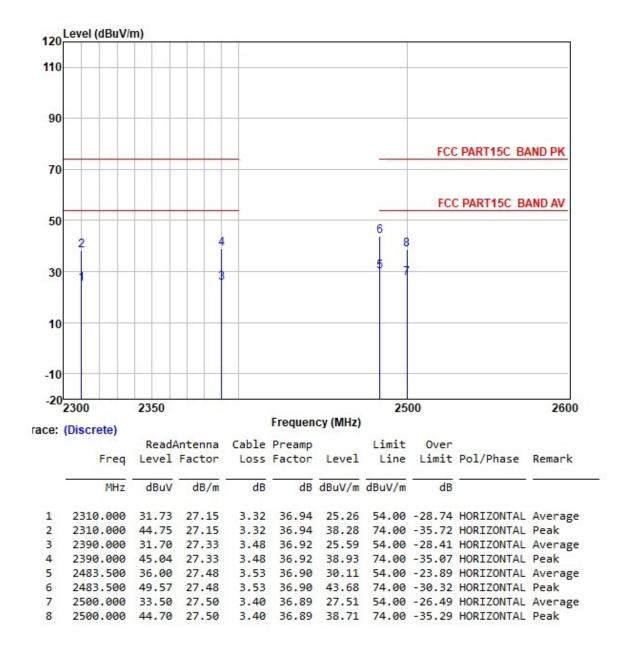
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Page: 22 of 49

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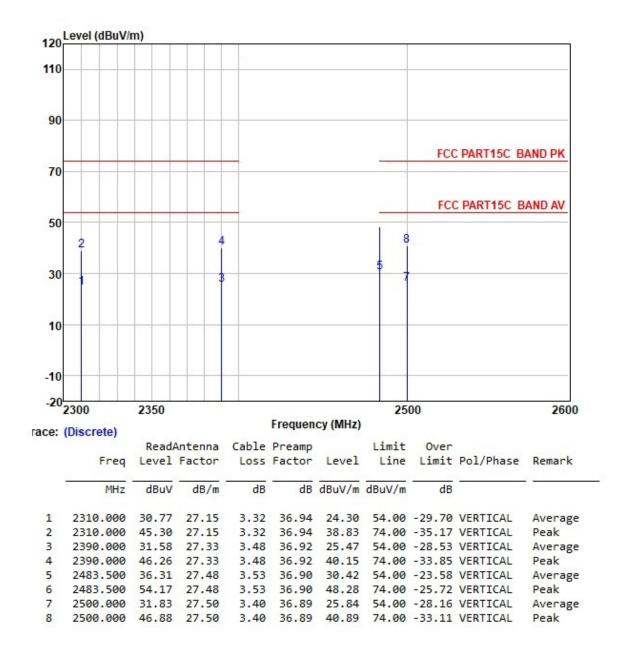
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Page: 23 of 49

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Report No.: GZEM200301082701

Page: 24 of 49

### 7.7 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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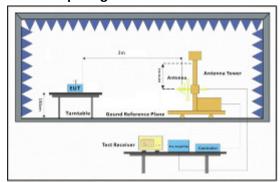
Page: 25 of 49

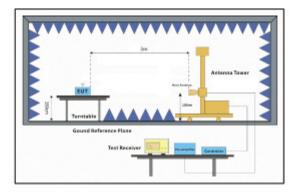
#### 7.7.1 E.U.T. Operation

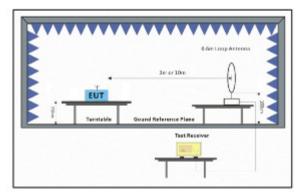
Operating Environment:

Temperature: 24.1 °C Humidity: 58.1 % RH Atmospheric Pressure: 1020 mbar Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with GFSK modulation

#### 7.7.2 Test Setup Diagram









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Report No.: GZEM200301082701

Page: 26 of 49

#### 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) 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



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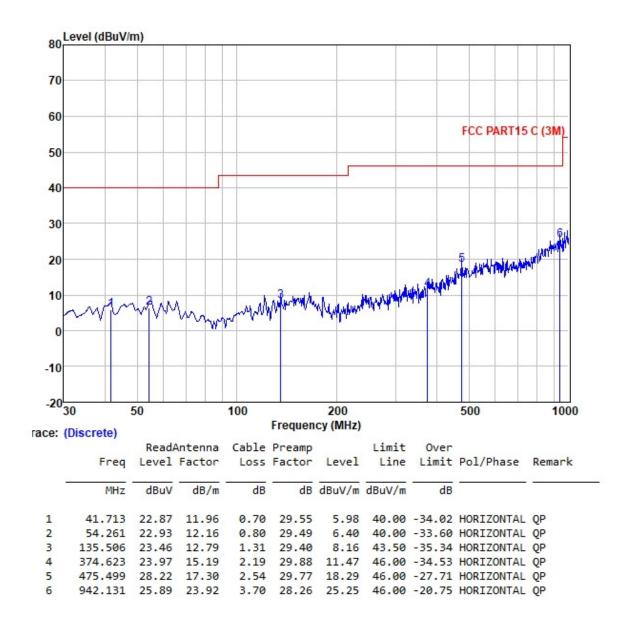
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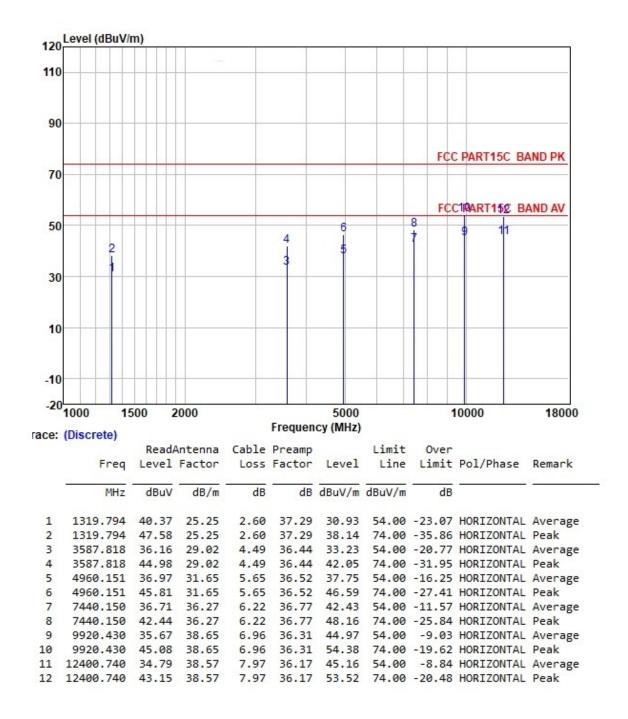
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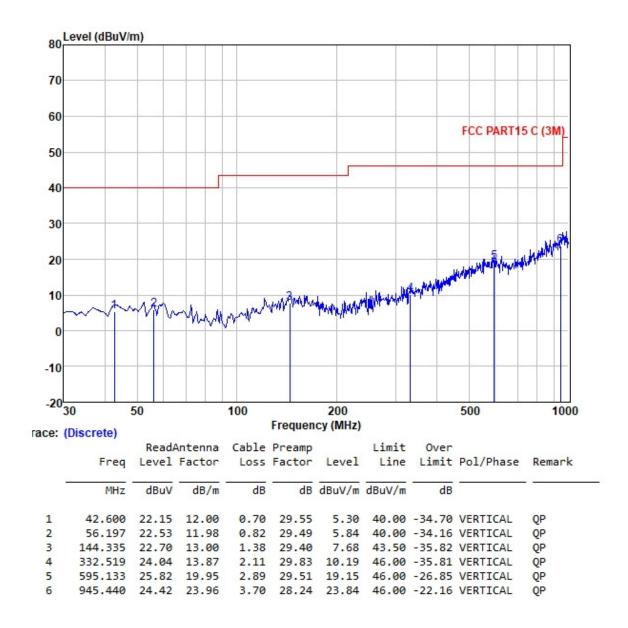
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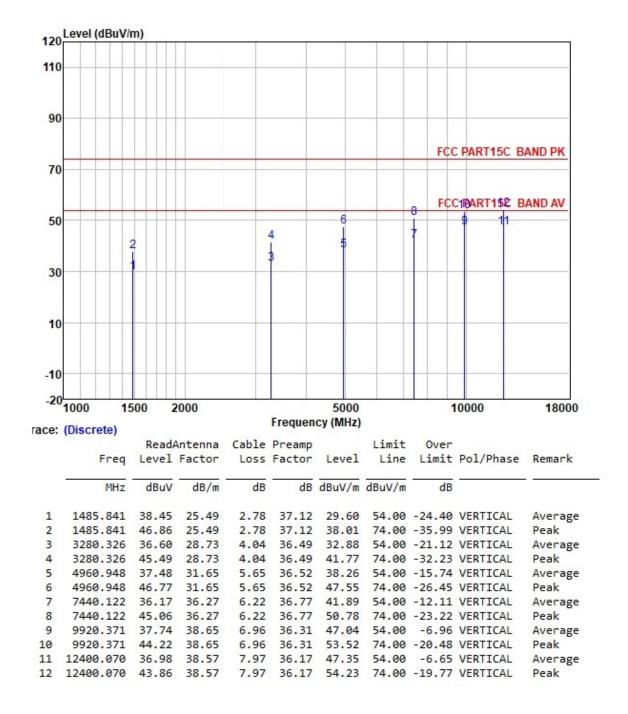
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Page: 30 of 49

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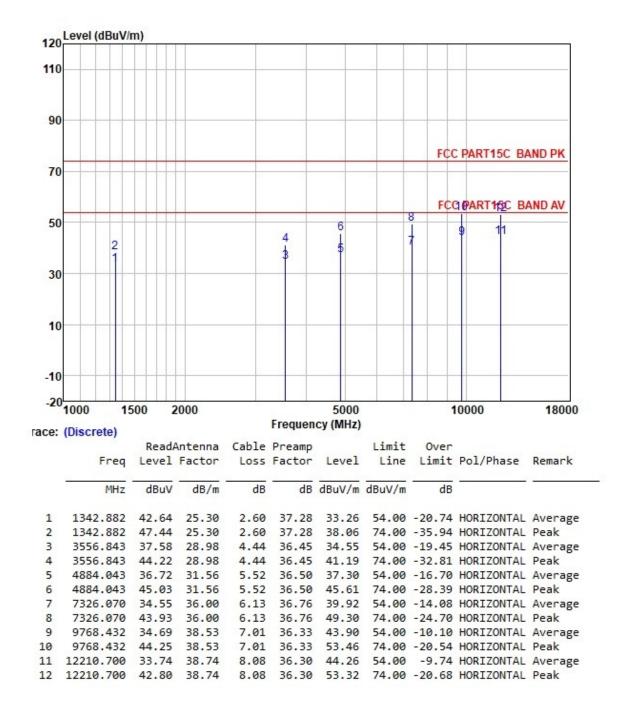
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Report No.: GZEM200301082701

Page: 31 of 49

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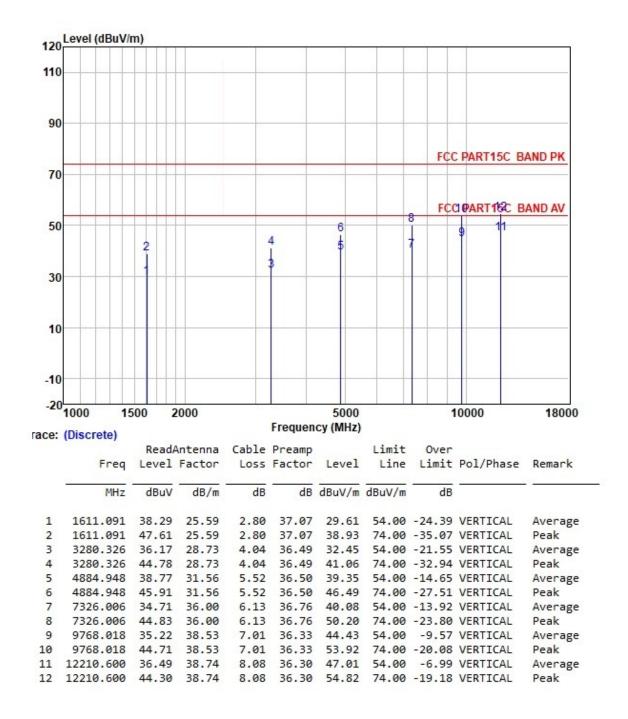
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Report No.: GZEM200301082701

Page: 32 of 49

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





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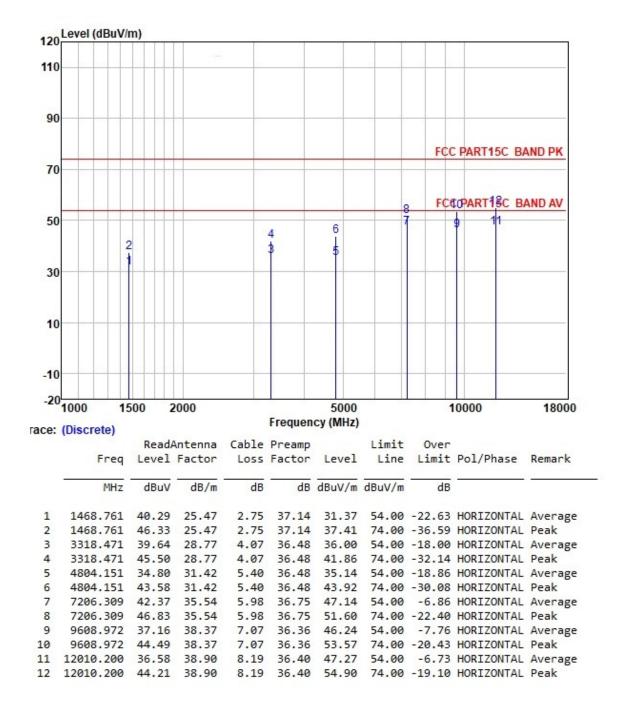
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Report No.: GZEM200301082701

Page: 33 of 49

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





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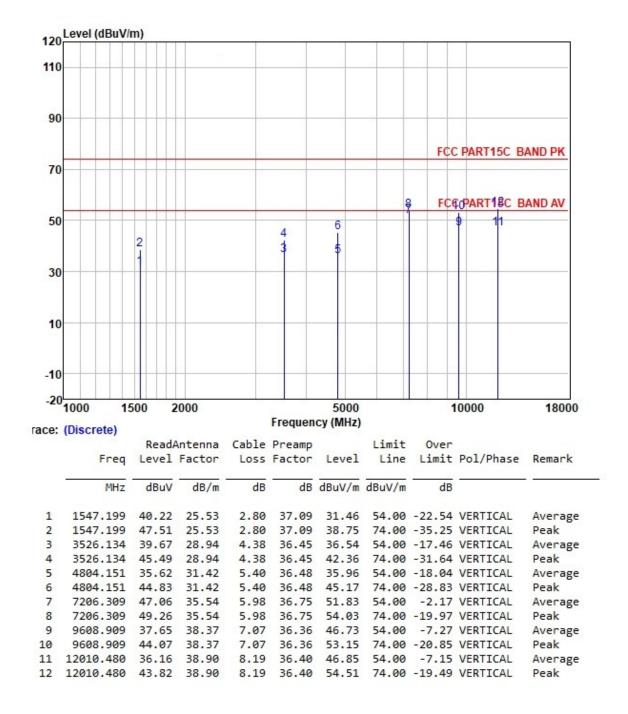
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Page: 34 of 49

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





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Report No.: GZEM200301082701

Page: 35 of 49

### 8 Appendix

### 8.1 Appendix 15.247

#### 1.6dB Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	1.0831	0.7347	0.5	PASS
BLE	2442	Ant1	1.0820	0.7166	0.5	PASS
BLE	2480	Ant1	1.0812	0.7292	0.5	PASS





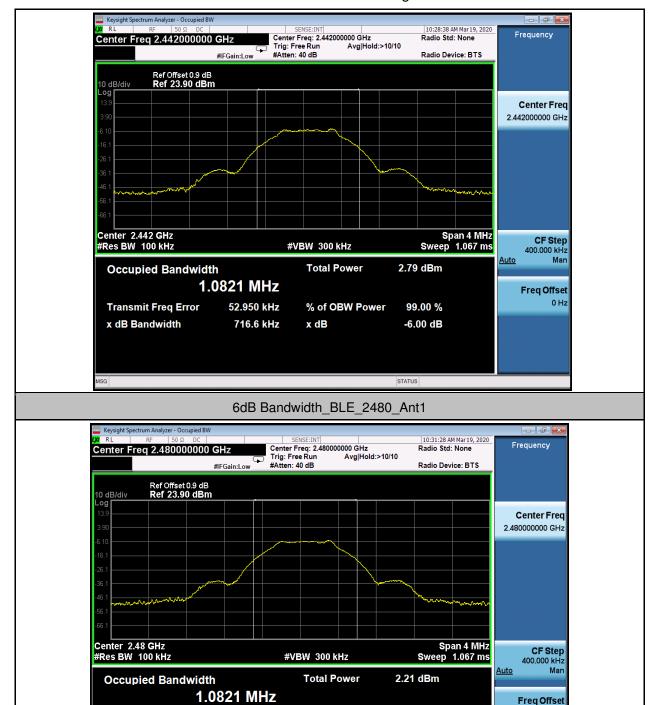
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Report No.: GZEM200301082701

Page: 36 of 49



% of OBW Power

x dB



**Transmit Freq Error** 

x dB Bandwidth

53.545 kHz

729.2 kHz

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STATUS

99.00 %

-6.00 dB

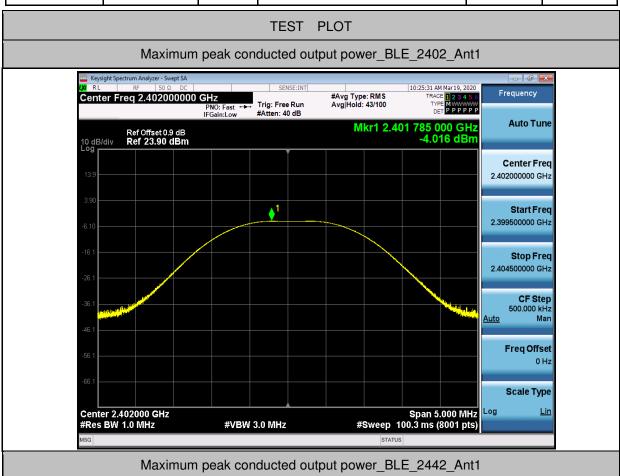


Report No.: GZEM200301082701

Page: 37 of 49

#### 2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-4.016	30	PASS
BLE	2442	Ant1	-3.68	30	PASS
BLE	2480	Ant1	-4.216	30	PASS





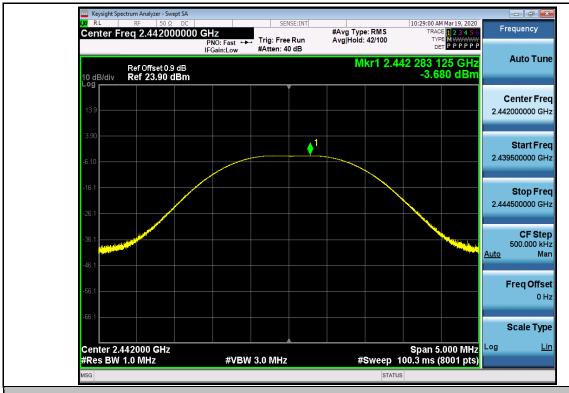
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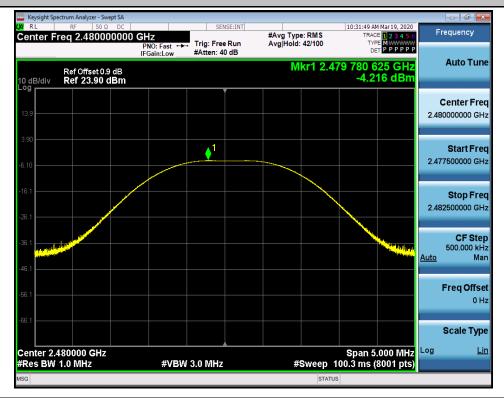


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Page: 38 of 49



#### Maximum peak conducted output power\_BLE\_2480\_Ant1





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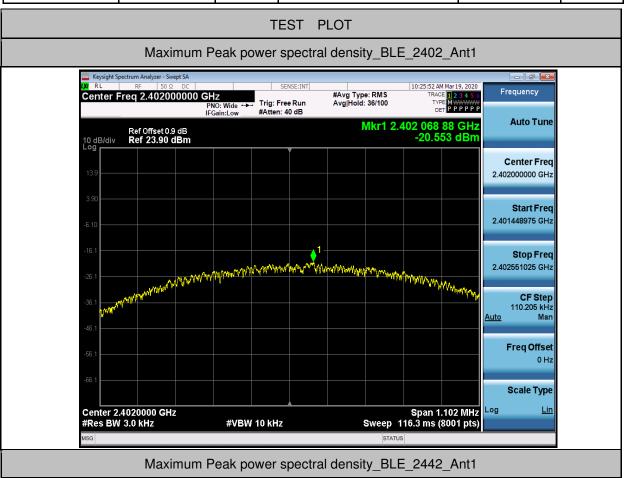


Report No.: GZEM200301082701

Page: 39 of 49

#### 3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-20.553	8.00	PASS
BLE	2442	Ant1	-20.116	8.00	PASS
BLE	2480	Ant1	-20.551	8.00	PASS





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Page: 40 of 49



#### Maximum Peak power spectral density\_BLE\_2480\_Ant1





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Page: 41 of 49

#### 4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-4.685	-48.087	-24.69	PASS
BLE	2480	Ant1	-4.882	-48.285	-24.88	PASS



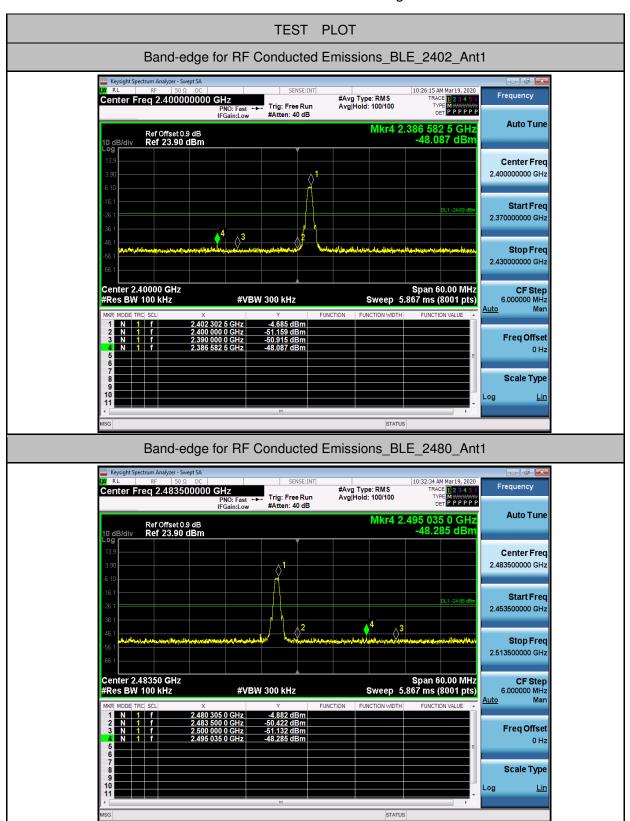
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Page: 43 of 49

#### **5.RF Conducted Spurious Emissions**

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	30	10000	100	300	-4.9	-51.987	<-24.9	PASS
BLE	2402	Ant1	10000	26000	100	300	-4.9	-51.709	<-24.9	PASS
BLE	2442	Ant1	30	10000	100	300	-4.93	-54.008	<-24.93	PASS
BLE	2442	Ant1	10000	26000	100	300	-4.93	-51.132	<-24.93	PASS
BLE	2480	Ant1	30	10000	100	300	-5.136	-53.886	<-25.136	PASS
BLE	2480	Ant1	10000	26000	100	300	-5.136	-52.147	<-25.136	PASS



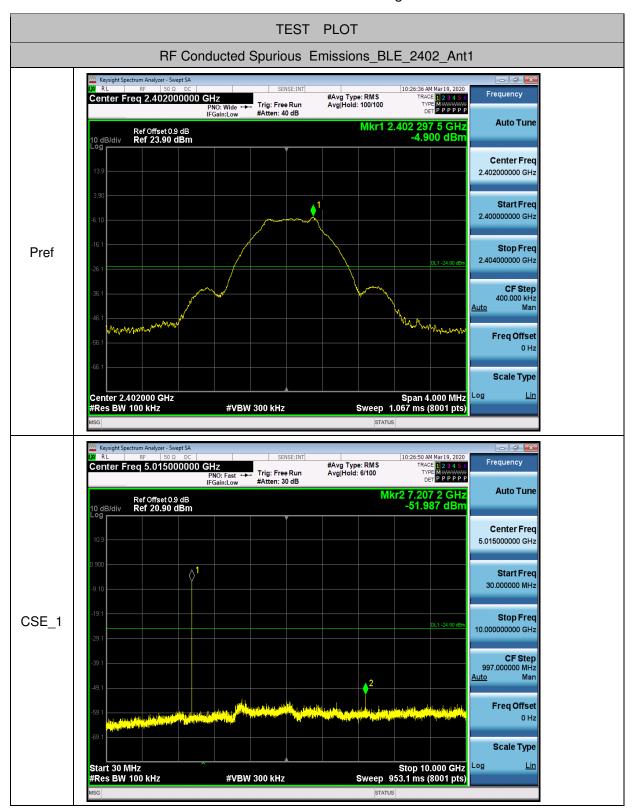
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Report No.: GZEM200301082701

Page: 45 of 49



#### RF Conducted Spurious Emissions\_BLE\_2442\_Ant1





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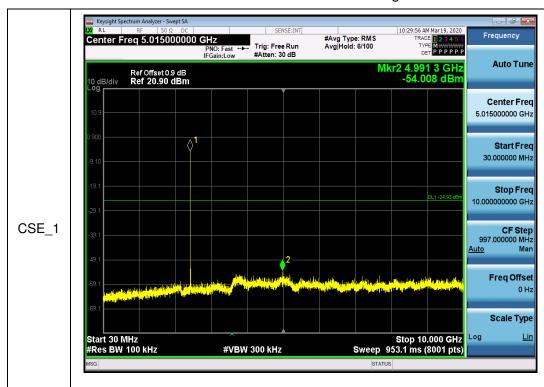
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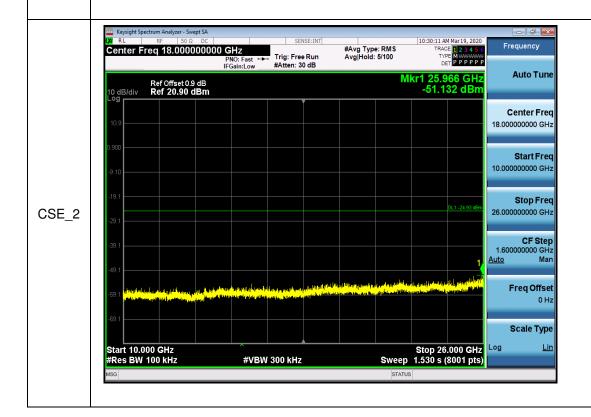
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Page: 46 of 49







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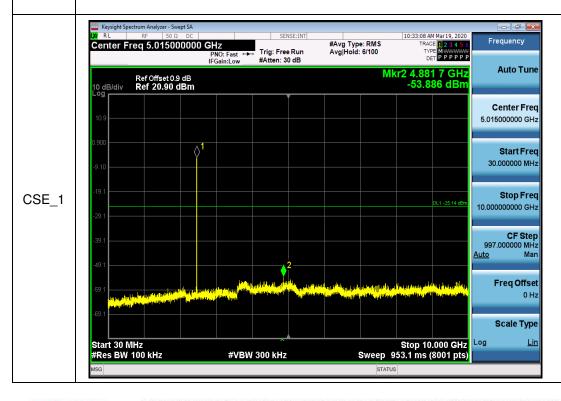
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Page: 47 of 49



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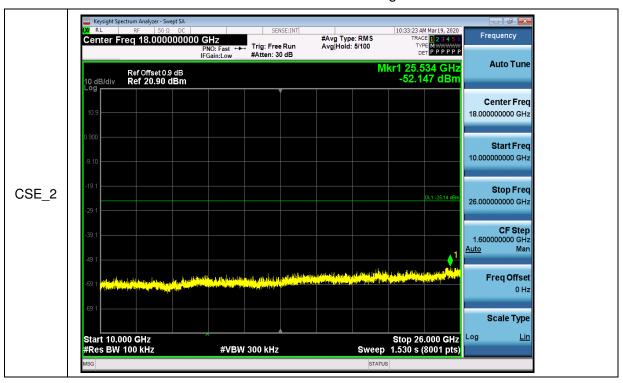
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Report No.: GZEM200301082701

Page: 48 of 49



#### 6. Duty Cycle

Test Mode	Ant	RBW [kHz]	VBW [kHz]	Duty Cycle [%]	Limit [%]	Verdict
BLE	Ant1	3000	3000	62.02		PASS



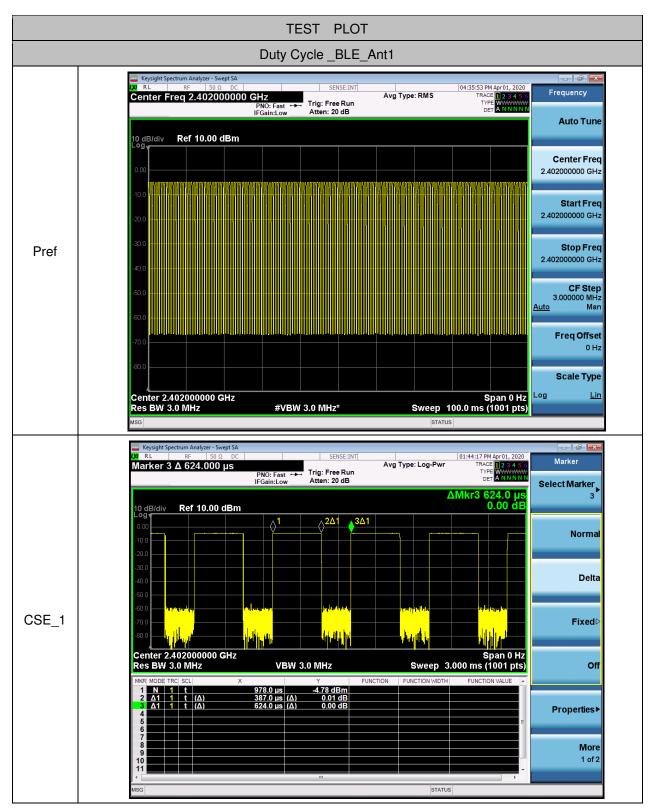
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Report No.: GZEM200301082701

Page: 49 of 49



-- End of Report--



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