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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM171201249902

Fax: +86 (0) 755 2671 0594 Page: 1 of 51

TEST REPORT

Application No.: SZEM1712012499CR **Applicant**: Buzz Products PTY LTD

Address of Applicant: 18 Studley Street, Abbotsford Victoria, Australia, 3067

Manufacturer: Shenzhen Longtech Smart Control Co., Ltd

Address of Manufacturer: 148, Zhengfeng Industrial Area, Shajing Town, Baoan, Shenzhen City, PRC

Factory: Shenzhen Longtech Smart Control Co., Ltd

Address of Factory: 148, Zhengfeng Industrial Area, Shajing Town, Baoan, Shenzhen City, PRC

Address of Factory:

Equipment Under Test (EUT):

EUT Name: MUTI-COLOUR FLASHING GLASSWARE

Model No.: BUZCONBTRFC

FCC ID: 2AA7CBUZCONBTRFC

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

Date of Receipt: 2017-12-14

Date of Test: 2017-12-15 to 2017-12-18

Date of Issue: 2017-12-19

Test Result: Pass*



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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



Report No.: SZEM171201249902

Page: 2 of 51

	Revision Record						
Version Chapter Date Modifier Rem							
01		2017-12-19		Original			

Authorized for issue by:		
	Peter. Greg	
	Peter Geng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



Report No.: SZEM171201249902

Page: 3 of 51

2 Test Summary

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

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 11.9.1.1	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			



Report No.: SZEM171201249902

Page: 4 of 51

3 Contents

			Page
1	COVE	ER PAGE	1
2	TEST	SUMMARY	3
3	CONT	TENTS	4
4	GENE	ERAL INFORMATION	6
	4.1 I	DETAILS OF E.U.T	6
		DESCRIPTION OF SUPPORT UNITS	
		MEASUREMENT UNCERTAINTY	
		TEST LOCATION	
	4.5	TEST FACILITY	7
	4.6 I	DEVIATION FROM STANDARDS	7
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	7
5	EQUI	PMENT LIST	8
6		O SPECTRUM TECHNICAL REQUIREMENT	
	6.1	Antenna Requirement	
	6.1.1	Test Requirement:	
	6.1.2	Conclusion	11
7	RADI	O SPECTRUM MATTER TEST RESULTS	12
	7.1	MINIMUM 6DB BANDWIDTH	12
	7.1.1	E.U.T. Operation	
	7.1.2		
	7.1.3	Measurement Procedure and Data	
	7.2	CONDUCTED PEAK OUTPUT POWER	
	7.2.1	E.U.T. Operation	13
	7.2.2		
	7.2.3	Measurement Procedure and Data	
		Power Spectrum Density	
	7.3.1	E.U.T. Operation	
	7.3.2	Test Setup Diagram	
	7.3.3	Measurement Procedure and Data	
		CONDUCTED BAND EDGES MEASUREMENT	
	7.4.1 7.4.2	E.U.T. Operation	
	7.4.2 7.4.3	Test Setup Diagram Measurement Procedure and Data	
		Conducted Spurious Emissions	
	7.5.1	E.U.T. Operation	
	7.5.2	Test Setup Diagram	
	7.5.3	Measurement Procedure and Data	
		RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
	7.6.1	E.U.T. Operation	
	7.6.2	Test Setup Diagram	
	7.6.3	Measurement Procedure and Data	
	7.7	RADIATED SPURIOUS EMISSIONS	25
	7.7.1	E.U.T. Operation	
	7.7.2	Test Setup Diagram	
	7.7.3	Measurement Procedure and Data	27

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Report No.: SZEM171201249902

Page: 5 of 51

8	APP	NDIX	.37
8.	.1	Appendix 15.247	-51



Report No.: SZEM171201249902

Page: 6 of 51

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V by 2x1.5V "AAA" batteries
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V4.0
Modulation Type:	GFSK
Channel Spacing	2MHz
Number of Channels:	40
Antenna Type:	PCB Printed Antenna
Antenna Gain:	-2dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

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	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	DE Dedicted newer	4.5dB (below 1GHz)
/	RF Radiated power	4.8dB (above 1GHz)
8	Dedicted Spurious emission test	4.5dB (Below 1GHz)
0	Radiated Spurious emission test	4.8dB (Above 1GHz)
9	Temperature test	1°C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



Report No.: SZEM171201249902

Page: 7 of 51

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:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM171201249902

Page: 8 of 51

5 Equipment List

RF Conducted					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2017-09-27	2018-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-26

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
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	2017-09-27	2018-09-26
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2017-03-05	2020-03-04
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12
Cable	SGS	RE1#		2017-10-09	2018-10-09



Report No.: SZEM171201249902

Page: 9 of 51

RE in Chamber	RE in Chamber						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-10	2018-05-09		
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2017-06-05	2018-06-04		
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26		
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-13		
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26		
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-26		
Band filter	N/A	N/A	N/A	N/A	N/A		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12		
Cable	SGS	RE2#	N/A	2017-10-09	2018-10-09		



Report No.: SZEM171201249902

Page: 10 of 51

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	2017-05-02	2020-05-01	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13	
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-04	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-13	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15	
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26	
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27	
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2016-12-02	2017-12-01	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13	
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	
Band filter	N/A	N/A	SEM023-01	N/A	N/A	
Cable	SGS	RE2#		2017-10-09	2018-10-09	

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	2017-09-29	2018-09-28						
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28						
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28						
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-17						



Report No.: SZEM171201249902

Page: 11 of 51

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 -2dBi.



Report No.: SZEM171201249902

Page: 12 of 51

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

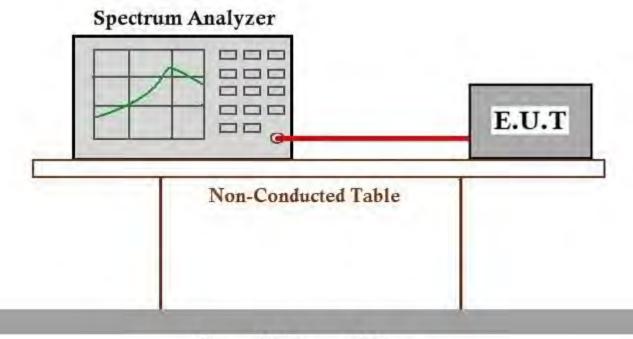
Operating Environment:

Temperature: 25.1 °C Humidity: 54.8 % 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



Report No.: SZEM171201249902

Page: 13 of 51

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 11.9.1.1

Limit:

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

7.2.1 E.U.T. Operation

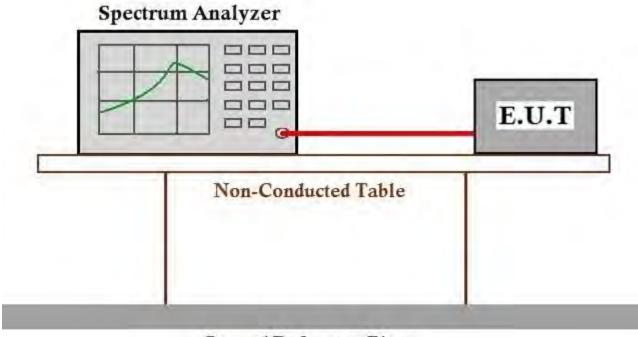
Operating Environment:

Temperature: 25.1 °C Humidity: 54.8 % 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.: SZEM171201249902

Page: 14 of 51

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

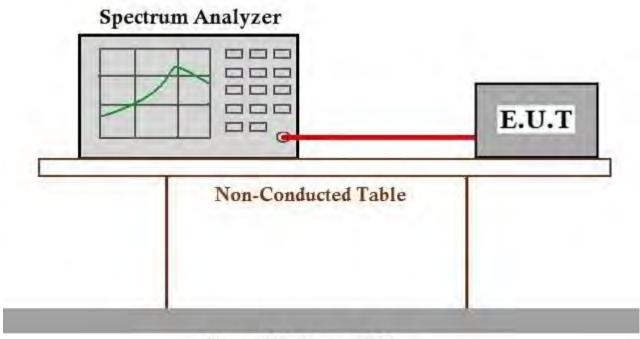
Operating Environment:

Temperature: 25.1 °C Humidity: 54.8 % 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



Report No.: SZEM171201249902

Page: 15 of 51

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: ANSI Cos. 10 (2013) Section 11.13.3.2

Limit: In any 100 kHz bandwidth outside the f

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)



Report No.: SZEM171201249902

Page: 16 of 51

7.4.1 E.U.T. Operation

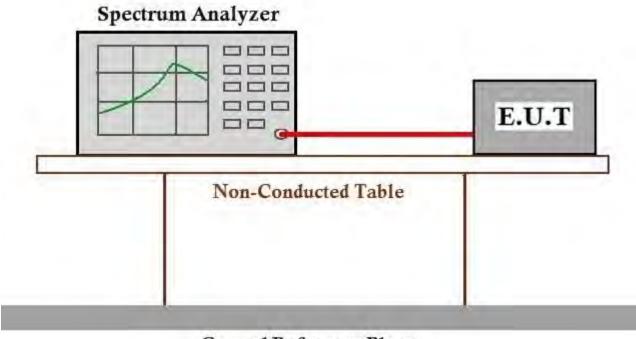
Operating Environment:

Temperature: 25.1 °C Humidity: 54.8 % 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



Report No.: SZEM171201249902

Page: 17 of 51

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)



Report No.: SZEM171201249902

Page: 18 of 51

7.5.1 E.U.T. Operation

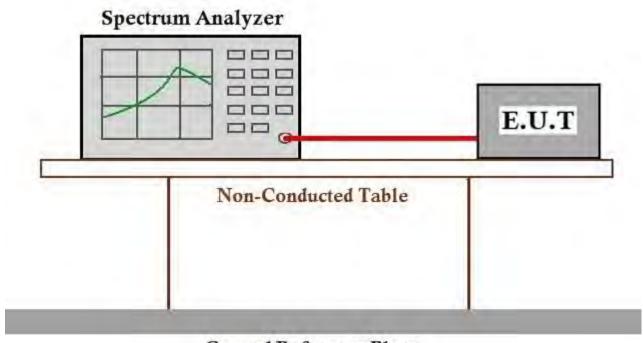
Operating Environment:

Temperature: 25.1 °C Humidity: 54.8 % 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



Report No.: SZEM171201249902

Page: 19 of 51

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.



Report No.: SZEM171201249902

Page: 20 of 51

7.6.1 E.U.T. Operation

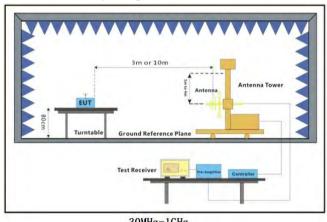
Operating Environment:

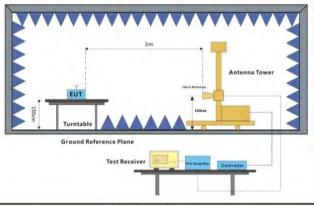
Temperature: 23.4 °C Humidity: 40.1 % RH Atmospheric Pressure: 1020 mbar

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

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.

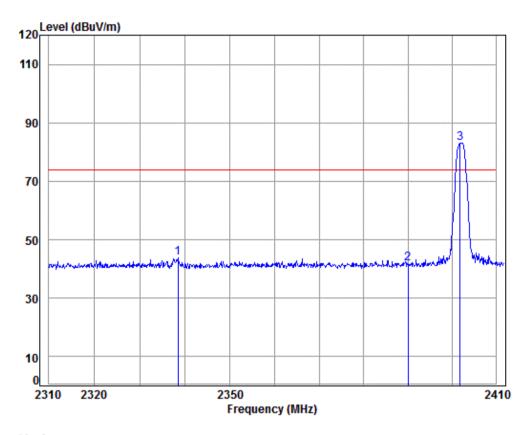
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Report No.: SZEM171201249902

Page: 21 of 51

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



Condition: 3m HORIZONTAL Job No : 12499CR/12500CR Mode : 2402 Band edge

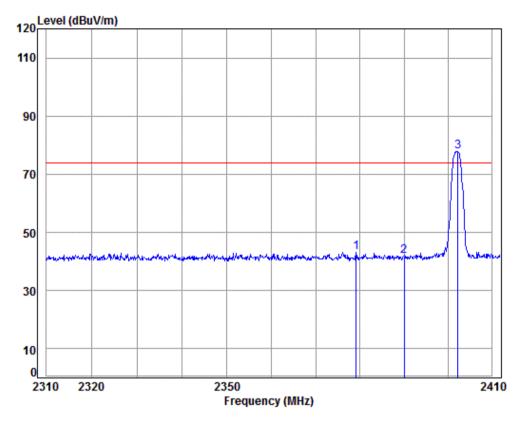
oue	. 240	z banu	euge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2338.485	5.40	28.92	37.66	47.26	43.92	74.00	-30.08	peak
2	2390.000	5.47	29.08	37.66	45.03	41.92	74.00	-32.08	peak
3 p	p 2401.859	5.49	29.11	37.65	86.07	83.02	74.00	9.02	Peak
	-								



Report No.: SZEM171201249902

Page: 22 of 51

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



Condition: 3m VERTICAL
Job No : 12499CR/12500CR
Mode : 2402 Band edge

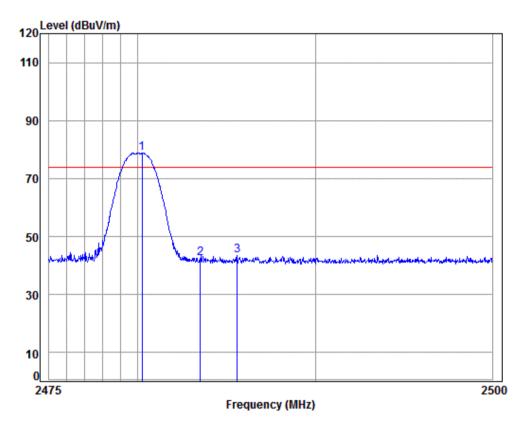
lode	: 240	2 Band	_	D	D		122.	0	
		Capie	Anc	Preamp	read		LIMIT	over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	•								
	MHz	qB	dB/m	dB	dBuV	dBuV/m	dBuV/m	qB	
1	2379.100	5.46	29.04	37.66	46.31	43.15	74.00	-30.85	neak
_									•
2	2390.000	5.4/	29.08	3/.66	44.94	41.83	/4.00	-32.1/	peak
3 nn	2402.346	5.49	29.11	37.65	80.76	77.71	74.00	3.71	Peak
- PP									



Report No.: SZEM171201249902

Page: 23 of 51

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



Condition: 3m HORIZONTAL Job No : 12499CR/12500CR Mode : 2480 Band edge

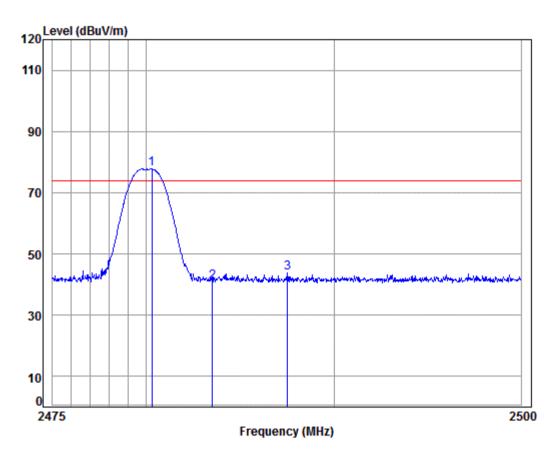
ouc	. 2400	Danu	cuge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.229	5.59	29.34	37.65	81.42	78.70	74.00	4.70	peak
2	2483.500	5.60	29.35	37.65	45.32	42.62	74.00	-31.38	peak
3	2485.594	5.60	29.36	37.65	46.08	43.39	74.00	-30.61	peak



Report No.: SZEM171201249902

Page: 24 of 51

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



Condition: 3m VERTICAL Job No : 12499CR/12500CR Mode : 2480 Band edge

oue	: 240	o band	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 pp	2480.279	5.59	29.34	37.65	80.47	77.75	74.00	3.75	peak	
2	2483.500	5.60	29.35	37.65	43.69	40.99	74.00	-33.01	peak	
3	2487.519	5.60	29.36	37.65	46.47	43.78	74.00	-30.22	peak	

Remark:

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) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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Report No.: SZEM171201249902

Page: 25 of 51

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.



Report No.: SZEM171201249902

Page: 26 of 51

7.7.1 E.U.T. Operation

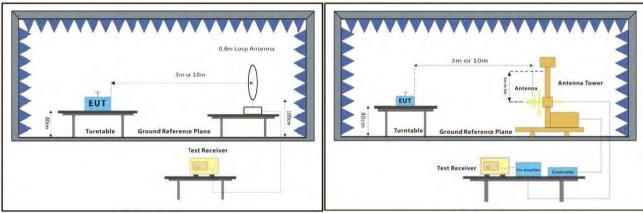
Operating Environment:

Temperature: 18.9 °C Humidity: 33.2 % RH Atmospheric Pressure: 1020 mbar

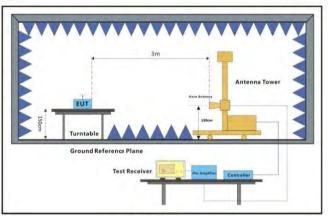
Test mode a:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

7.7.2 Test Setup Diagram



Below 30MHz 30MHz-1GHz



Above 1GHz



Report No.: SZEM171201249902

Page: 27 of 51

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

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) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



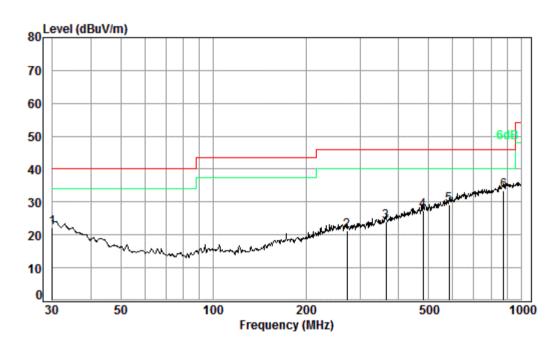
Report No.: SZEM171201249902

Page: 28 of 51

Radiated emission below 1GHz

QP value:

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL Job No. : 12499CR/12500CR

Test mode: a

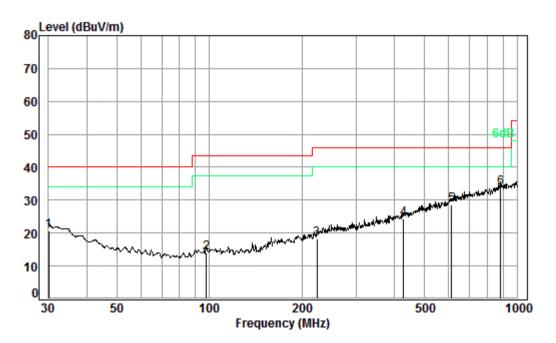
		Cable	Ant	Preamp	Read	Read		0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.36	26.49	22.23	40.00	-17.77
2	272.28	1.78	18.91	26.47	27.04	21.26	46.00	-24.74
3	364.26	2.10	21.49	26.89	27.39	24.09	46.00	-21.91
4	480.53	2.53	24.21	27.60	28.30	27.44	46.00	-18.56
5	582.74	2.68	26.28	27.57	27.94	29.33	46.00	-16.67
6 p	p 878.32	3.52	29.53	26.89	27.41	33.57	46.00	-12.43



Report No.: SZEM171201249902

Page: 29 of 51

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 12499CR/12500CR

Test mode: a

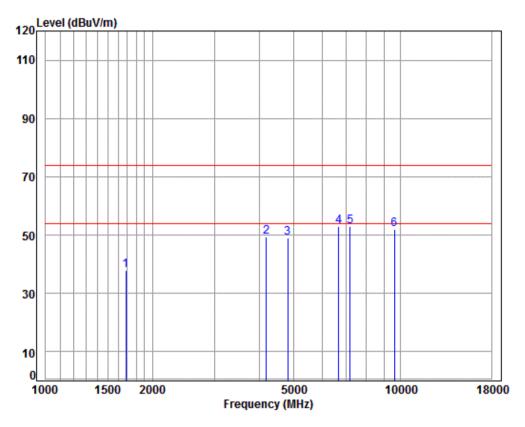
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.36	25.05	20.73	40.00	-19.27
2	97.80	1.18	13.81	27.20	26.34	14.13	43.50	-29.37
3	223.73	1.54	17.51	26.62	25.80	18.23	46.00	-27.77
4	428.02	2.32	23.07	27.31	26.14	24.22	46.00	-21.78
5	612.06	2.73	26.77	27.53	26.56	28.53	46.00	-17.47
6 рр	884.50	3.54	29.61	26.85	27.34	33.64	46.00	-12.36



Report No.: SZEM171201249902

Page: 30 of 51

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



Condition: 3m HORIZONTAL Job No : 12499CR/12500CR

Mode : 2402 TX SE

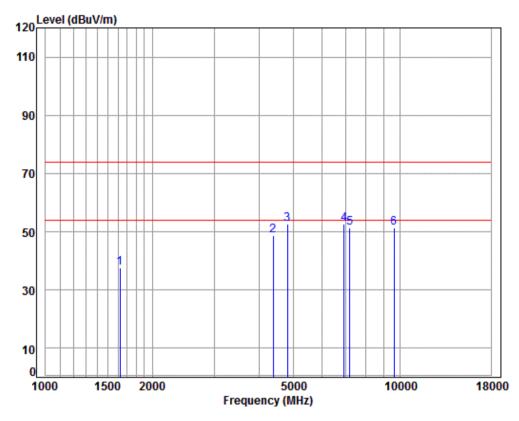
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	37.72	43.76	37.89	74.00	-36.11	peak
2	4181.768	7.20	33.60	37.14	45.68	49.34	74.00	-24.66	peak
3	4804.000	7.89	34.16	37.26	44.16	48.95	74.00	-25.05	peak
4 pp	6679.040	11.02	35.61	37.69	44.12	53.06	74.00	-20.94	peak
5	7206.000	10.08	36.42	37.56	43.95	52.89	74.00	-21.11	peak
6	9608.000	10.75	37.52	35.80	39.66	52.13	74.00	-21.87	peak



Report No.: SZEM171201249902

Page: 31 of 51

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



Condition: 3m VERTICAL
Job No : 12499CR/12500CR

Mode : 2402 TX SE

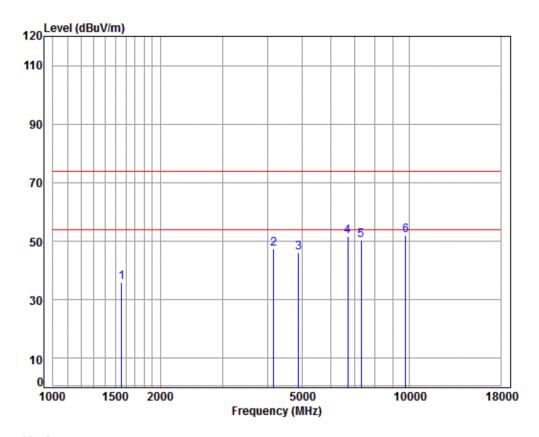
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	37.73	43.61	37.54	74.00	-36.46	peak
2	4379.699	7.43	33.60	37.18	44.99	48.84	74.00	-25.16	peak
3 рр	4804.000	7.89	34.16	37.26	47.80	52.59	74.00	-21.41	peak
4	6934.778	10.31	36.32	37.62	43.53	52.54	74.00	-21.46	peak
5	7206.000	10.08	36.42	37.56	42.48	51.42	74.00	-22.58	peak
6	9608.000	10.75	37.52	35.80	38.89	51.36	74.00	-22.64	peak



Report No.: SZEM171201249902

Page: 32 of 51

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



Condition: 3m HORIZONTAL Job No : 12499CR/12500CR

Mode : 2440 TX SE

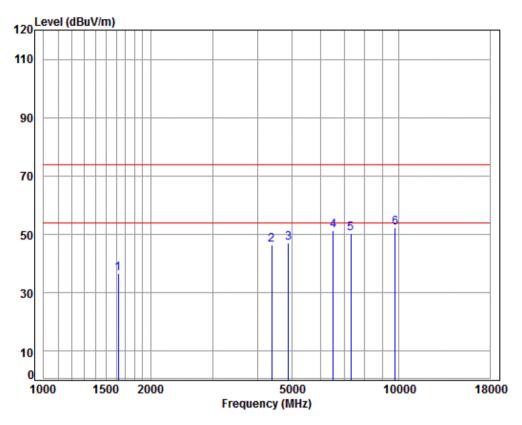
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1560.673	5.40	26.08	38.04	42.68	36.12	74.00	-37.88	peak
2		4157.664	7.17	33.60	38.09	44.77	47.45	74.00	-26.55	peak
3		4880.000	7.97	34.29	38.45	42.38	46.19	74.00	-27.81	peak
4		6717.762	10.91	35.72	37.57	42.58	51.64	74.00	-22.36	peak
5		7320.000	10.05	36.37	37.00	40.85	50.27	74.00	-23.73	peak
6	pp	9760.000	10.82	37.55	35.02	38.74	52.09	74.00	-21.91	peak



Report No.: SZEM171201249902

Page: 33 of 51

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



Condition: 3m VERTICAL Job No : 12499CR/12500CR

Mode : 2440 TX SE

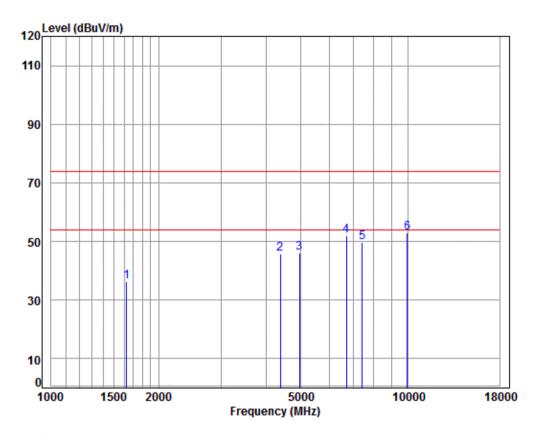
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	38.03	42.97	36.60	74.00	-37.40	peak
2	4379.699	7.43	33.60	38.20	43.63	46.46	74.00	-27.54	peak
3	4880.000	7.97	34.29	38.45	43.14	46.95	74.00	-27.05	peak
4	6526.373	11.46	35.18	37.75	42.48	51.37	74.00	-22.63	peak
5	7320.000	10.05	36.37	37.00	40.93	50.35	74.00	-23.65	peak
6 pp	9760.000	10.82	37.55	35.02	38.93	52.28	74.00	-21.72	peak



Report No.: SZEM171201249902

Page: 34 of 51

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



Condition: 3m HORIZONTAL Job No : 12499CR/12500CR

Mode : 2480 TX SE

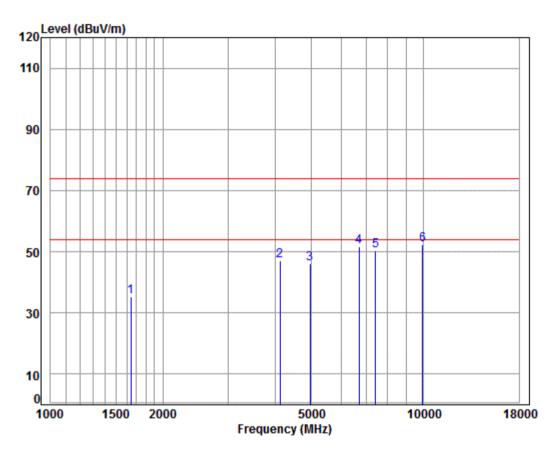
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1625.121	5.32	26.36	38.03	42.49	36.14	74.00	-37.86	peak
2		4379.699	7.43	33.60	38.20	42.86	45.69	74.00	-28.31	peak
3		4960.000	8.05	34.43	38.48	41.98	45.98	74.00	-28.02	peak
4		6717.762	10.91	35.72	37.57	42.98	52.04	74.00	-21.96	peak
5		7440.000	10.02	36.32	36.89	40.17	49.62	74.00	-24.38	peak
6		9920.000								•



Report No.: SZEM171201249902

Page: 35 of 51

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



Condition: 3m VERTICAL
Job No : 12499CR/12500CR

Mode : 2480 TX SE

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1644.019	5.30	26.44	38.03	41.72	35.43	74.00	-38.57	peak
2		4121.768	7.13	33.60	38.07	44.43	47.09	74.00	-26.91	peak
3		4960.000	8.05	34.43	38.48	42.06	46.06	74.00	-27.94	peak
4		6717.762	10.91	35.72	37.57	42.74	51.80	74.00	-22.20	peak
5		7440.000	10.02	36.32	36.89	40.76	50.21	74.00	-23.79	peak
6	pp	9920.000	10.90	37.58	34.94	38.64	52.18	74.00	-21.82	peak



Report No.: SZEM171201249902

Page: 36 of 51

Remark:

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) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only above measurement data were shown in the report.



Report No.: SZEM171201249902

Page: 37 of 51

8 Appendix

8.1 Appendix 15.247

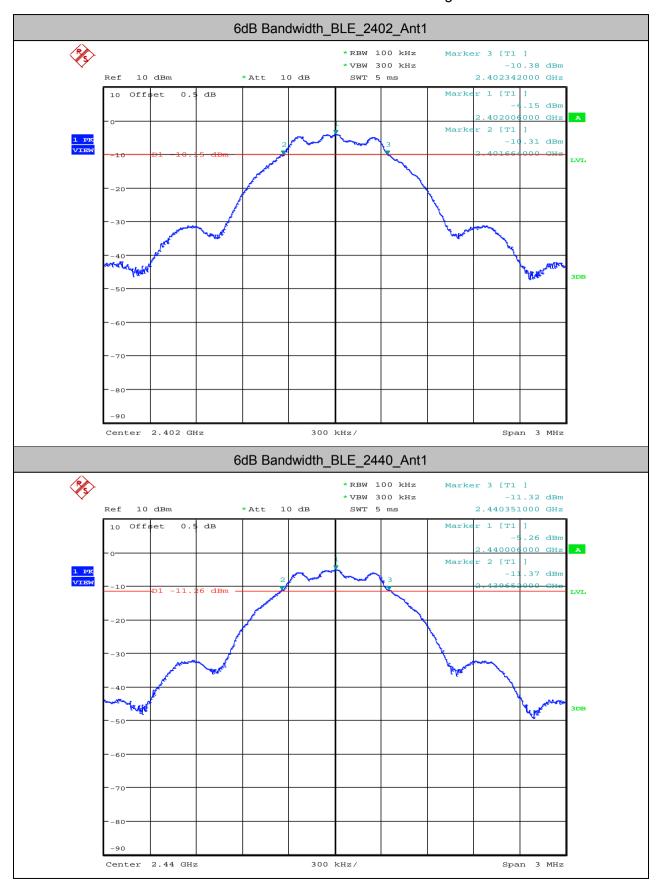
1.6dB Bandwidth

	Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
	BLE	BLE 2402		0.678	>=0.5	PASS
	BLE 2440 BLE 2480		Ant1	0.699	>=0.5	PASS
			Ant1	0.708	>=0.5	PASS



Report No.: SZEM171201249902

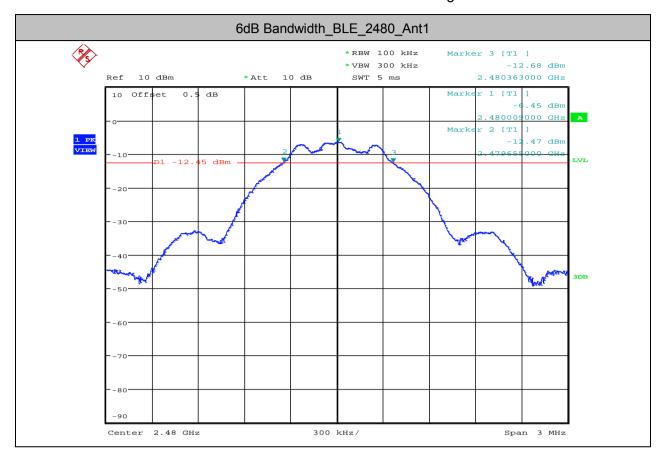
Page: 38 of 51





Report No.: SZEM171201249902

Page: 39 of 51





Report No.: SZEM171201249902

Page: 40 of 51

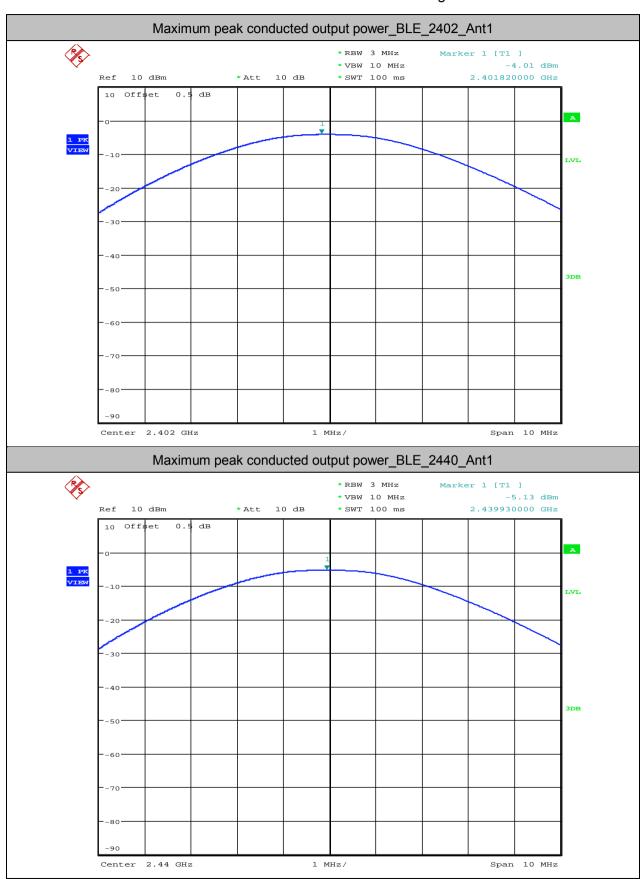
2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE 2402		Ant1	-4.01	<30	PASS
BLE 2440		Ant1	-5.13	<30	PASS
BLE 2480		Ant1	-6.34	<30	PASS



Report No.: SZEM171201249902

Page: 41 of 51





Report No.: SZEM171201249902

Page: 42 of 51



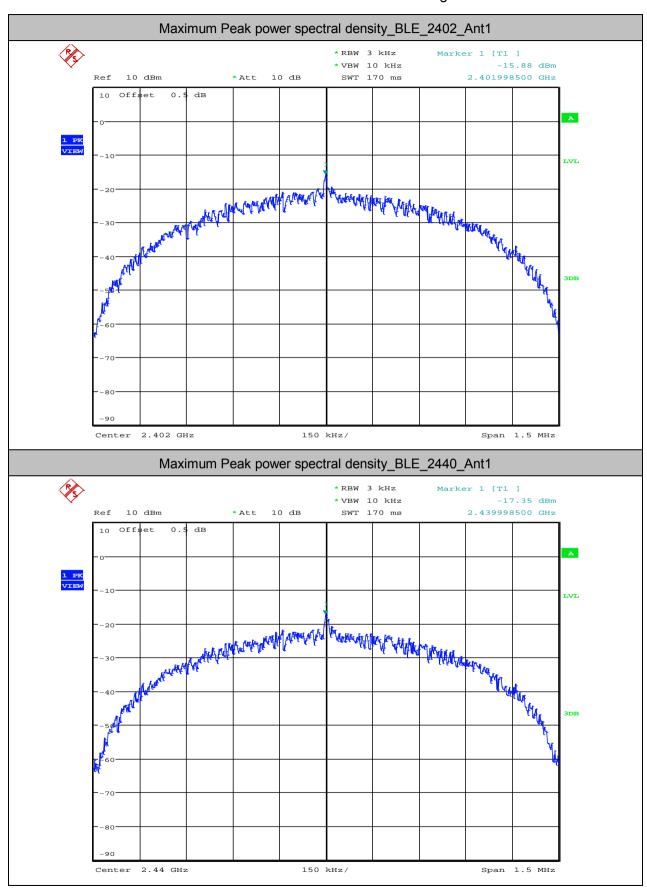
3. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-15.88	<8.00	PASS
BLE	2440	Ant1	-17.35	<8.00	PASS
BLE	2480	Ant1	-18.8	<8.00	PASS



Report No.: SZEM171201249902

Page: 43 of 51

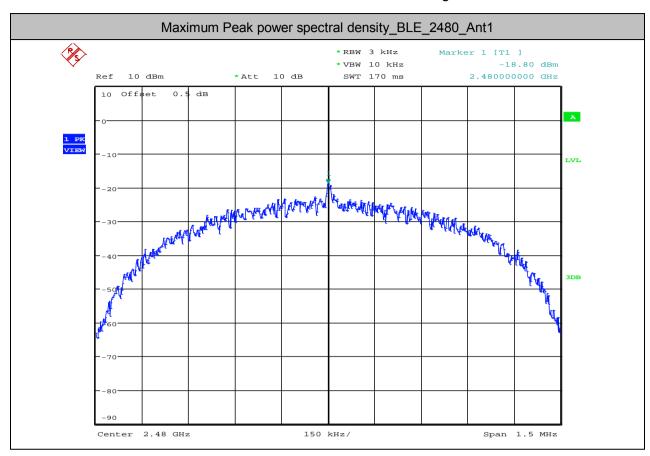


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Report No.: SZEM171201249902

Page: 44 of 51



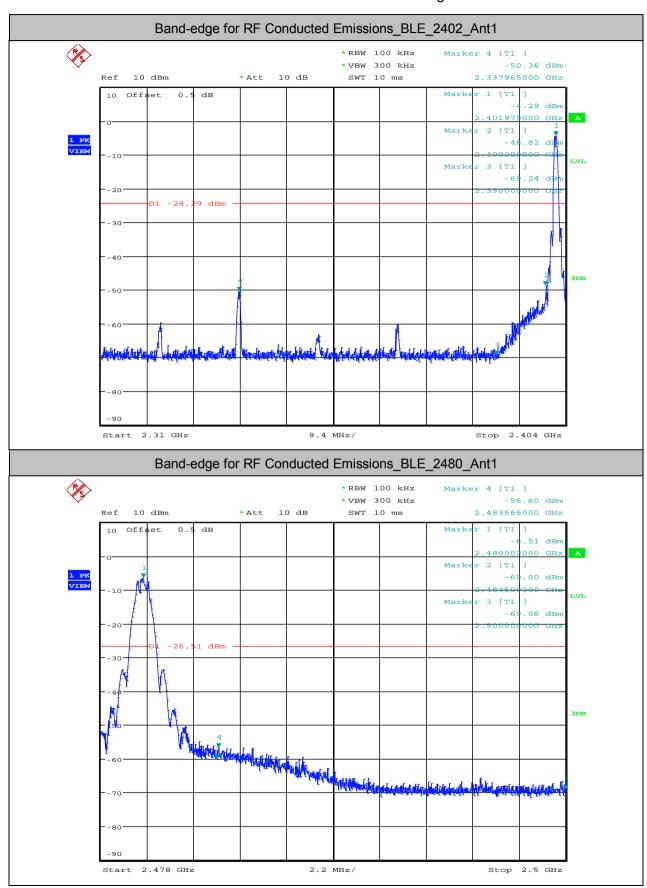
4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-4.290	-50.361	<-24.29	PASS
BLE	2480	Ant1	-6.510	-56.602	<-26.51	PASS



Report No.: SZEM171201249902

Page: 45 of 51





Report No.: SZEM171201249902

Page: 46 of 51

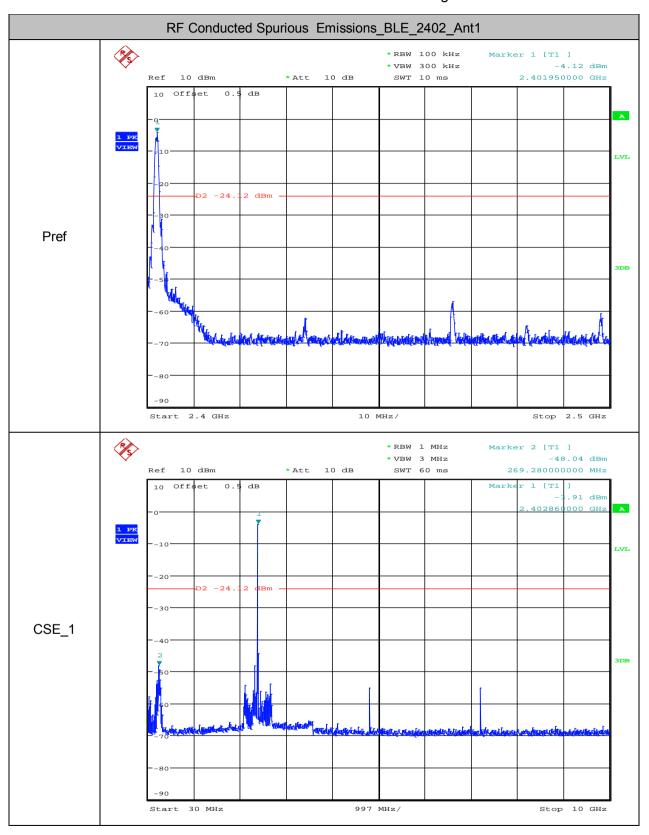
5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	1000	3000	-4.12	-48.040	<-24.12	PASS
BLE	2402	10000	25000	1000	3000	-4.12	-65.530	<-24.12	PASS
BLE	2440	30	10000	1000	3000	-5.33	-48.430	<-25.33	PASS
BLE	2440	10000	25000	1000	3000	-5.33	-65.370	<-25.33	PASS
BLE	2480	30	10000	1000	3000	-6.07	-49.110	<-26.07	PASS
BLE	2480	10000	25000	1000	3000	-6.07	-64.910	<-26.07	PASS



Report No.: SZEM171201249902

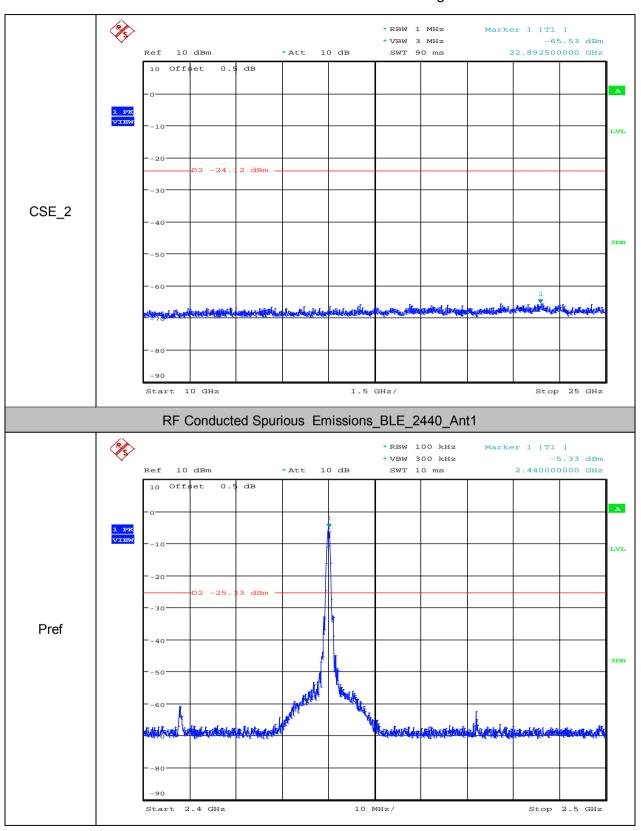
Page: 47 of 51





Report No.: SZEM171201249902

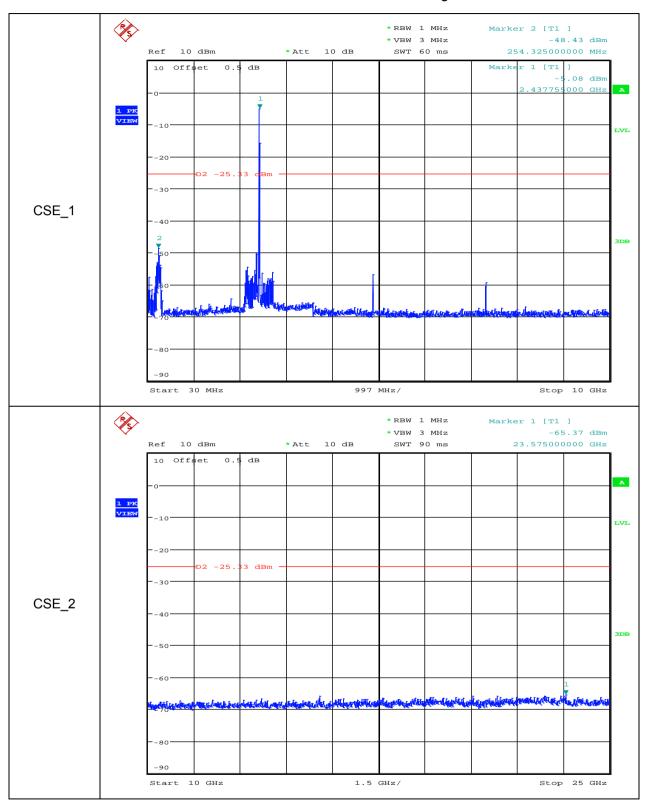
Page: 48 of 51





Report No.: SZEM171201249902

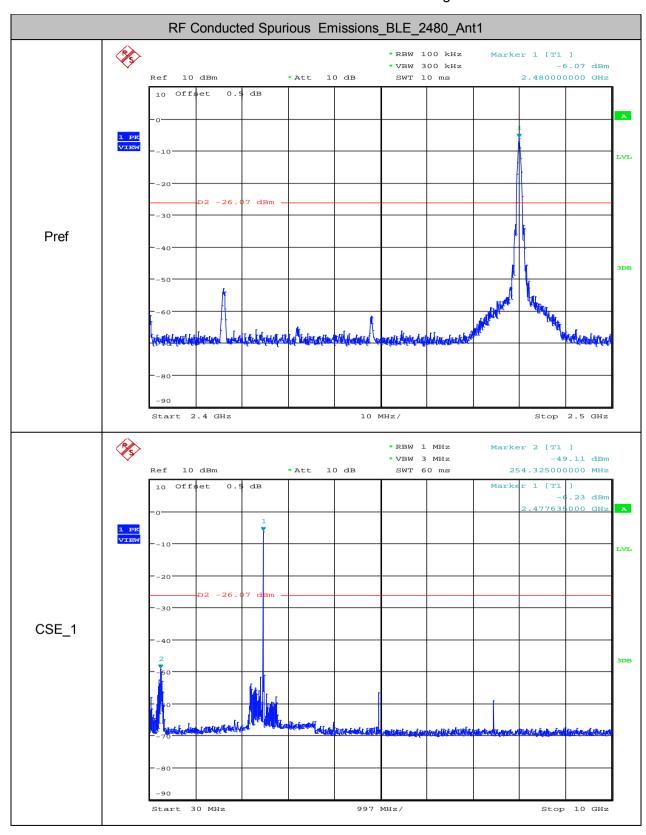
Page: 49 of 51





Report No.: SZEM171201249902

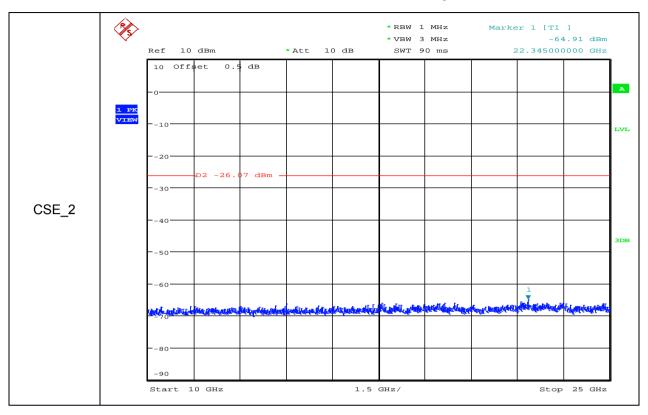
Page: 50 of 51





Report No.: SZEM171201249902

Page: 51 of 51



- End of the Report -