

Report No.: SZEM170300257104

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057 Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

Email: ee.shenzhen@sqs.com Page: 1 of 45

FCC REPORT

Application No: SZEM1703002571RG

Applicant: Huawei Technologies Co.,Ltd.

Manufacturer: Huawei Technologies Co.,Ltd.

Factory: Huawei Technologies Co.,Ltd.

Product Name: Huawei MediaPad T3 10 (MediaPad T3 10 for short)

Model No.(EUT): AGS-W09

Trade Mark: HUAWEI

FCC ID: QISAGS-W09

Standards: 47 CFR Part 15, Subpart C (2015)

Test Method KDB 558074 D01 558074 D01 DTS Meas Guidance v03r05

ANSI C63.10 2013

Date of Receipt: 2017-03-20

Date of Test: 2017-03-22 to 2017-04-10

Date of Issue: 2017-04-17

Test Result: PASS *

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

Authorized Signature:

Derele yang

Derek Yang

Wireless 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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SZEM170300257104

Page: 2 of 45

2 Version

	Revision Record					
Version Chapter Date Modifier Remark						
01		2017-04-17		Original		

Authorized for issue by:		
Tested By	Mike Mu	2017-04-11
	(Mike Hu) /Project Engineer	Date
Checked By	Jan Hong	2017-04-17



Report No.: SZEM170300257104

Page: 3 of 45

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	I ANSI C63 10 2013	
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions			PASS
Restricted bands around fundamental frequency (Radiated Emission) 47 CFR Part 15, Subpart C Section 15.205/15.209		ANSI C63.10 2013	PASS



Report No.: SZEM170300257104

Page: 4 of 45

4 Contents

			Page
1	C	OVER PAGE	1
2	VE	ERSION	2
3		EST SUMMARY	
3			
4	C	ONTENTS	4
5	GI	ENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF EUT	
	5.3	TEST ENVIRONMENT	
	5.4	DESCRIPTION OF SUPPORT UNITS	
	5.5	TEST LOCATION	8
	5.6	TEST FACILITY	8
	5.7	DEVIATION FROM STANDARDS	
	5.8	ABNORMALITIES FROM STANDARD CONDITIONS	9
	5.9	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	5.10	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	
	5.11E	EQUIPMENT LIST	10
6	TE	EST RESULTS AND MEASUREMENT DATA	13
	6.1	ANTENNA REQUIREMENT	13
	6.2	CONDUCTED EMISSIONS	14
	6.3	CONDUCTED PEAK OUTPUT POWER	
	6.4	6DB OCCUPY BANDWIDTH	20
	6.5	POWER SPECTRAL DENSITY	
	6.6	BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	6.7	SPURIOUS RF CONDUCTED EMISSIONS	
	6.8	RADIATED SPURIOUS EMISSION	
	• • • • • • • • • • • • • • • • • • • •	8.1 Radiated Emission below 1GHz	
		ransmitter Emission above 1GHz	
	6.9	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
7	Pŀ	HOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	45



Report No.: SZEM170300257104

Page: 5 of 45

5 General Information

5.1 Client Information

Applicant:	Huawei Technologies Co.,Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co.,Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Factory:	Huawei Technologies Co.,Ltd.
Address of Factory:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

5.2 General Description of EUT

Product Name:	Huawei MediaPad T3 10 (MediaPad T3 10 for short)
Model No.:	AGS-W09
Trade Mark:	HUAWEI
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth V4.2 Dual-mode (This test report is for BLE)
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Antenna Type:	PIFA
Antenna Gain:	-1dBi
Power Supply	DC3.85V (1 x 3.8V Rechargeable battery) 4650mAh Battery: Charge by DC 4.35V
AC adaptor:	Model:HW-050100U01 Input: AC100-240V 50/60Hz 0.2A Output:DC5.0V 1A

Remark:

This test report (Report No.: SZEM170300257104) is base on the original test report (Report No.: SZEM170300153904) issued on 2017-04-11.

According to the declaration from the applicant, the differences between AGS-L09 and AGS-W09 are as follows:



Report No.: SZEM170300257104

Page: 6 of 45

	AGS-L09(FCC)	AGS-W09(FCC)
GSM	B2/B5	Not Support
WCDMA	B2/B5	Not Support
LTE bands	B5/B7/B41	Not Support
WIFI&BT	WIFI A/B/G/N+BT	Only WIFI&BT&GPS
Will lab!	4.2+LE+EDR	Only Will lab raol o
SIM card	Singal	None
NFC	Not Support	Not Support
Camera	the same	the same
FLASH	the same	the same
Main board	the same	the same
PCB layout	the same	the same
Appearance	the same	the same
BT/ WLAN Antenna	the same	the same
GSM/ WCDMA	Support	None
/LTE antenna	Сирроп	None
Adapter	the same	the same
Battery	the same	the same
RF Parameter	The same WIFI NV Parameter	
Dimension	the same	the same
Main Frequency NV	Use the NV itself in the FCC	None
Wall Frequency 14V	RF band	

Therefore in this report only **Radiated spurious emissions** were fully retested and all other test data in this report are base on previous report with report number SZEM170300153904.



Report No.: SZEM170300257104

Page: 7 of 45

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

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 (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



Report No.: SZEM170300257104

Page: 8 of 45

5.3 Test Environment

Operating Environment			
Temperature:	25.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	1010 mbar		

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 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.

5.6 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 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.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC - Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 No.: 556682.

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.

5.7 Deviation from Standards

None.



Report No.: SZEM170300257104

Page: 9 of 45

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Total RF power, conducted	0.75dB	
2	RF power density, conducted	2.84dB	
3	Spurious emissions, conducted	0.75dB	
		4.5dB (30MHz-1GHz)	
4	Radiated Spurious emission test	4.8dB (1GHz-25GHz)	
5	Conduct emission test	3.12 dB(9KHz- 30MHz)	
6	Temperature test	1°C	
7	Humidity test	3%	
8	DC and low frequency voltages	0.5%	



Report No.: SZEM170300257104

Page: 10 of 45

5.11Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09	
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2016-09-28	2017-09-28	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2016-09-28	2017-09-28	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2016-09-28	2017-09-28	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	

	RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-17	2017-10-17
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
4	Power Meter	Agilent Technologies	N1914A	W008-02	2016-06-27	2017-06-27
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2016-10-09	2017-10-09



Report No.: SZEM170300257104

Page: 11 of 45

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-09-16	2017-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	RE in Chamber					
Item	Test Equipment Manufacturer		Model No. Inventory N		Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2016-05-13	2017-05-13
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2016-04-25	2017-04-25
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-07-06	2017-07-06
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14



Report No.: SZEM170300257104

Page: 12 of 45

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2016-10-09	2017-10-09
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



Report No.: SZEM170300257104

Page: 13 of 45

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1dBi.



Report No.: SZEM170300257104

Page: 14 of 45

6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.	207				
Test Method:						
	ANSI C63.10: 2013					
Test Frequency Range:						
	Frequency range (MHz)	Limit (dBuV)	Ι.	-		
		Quasi-peak	Average			
Limit:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithr					
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver			
Test Mode:	Transmitting with GFSK modu	ılation.				
i est ivioue.	Charge +Transmitting mode.					
Instruments Used:	Refer to section 5.10 for detail	ls.				
Test Results:	Pass					

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SZEM170300257104

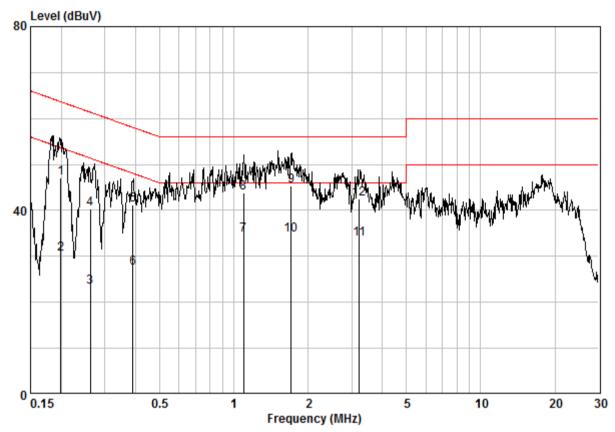
Page: 15 of 45

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



Site : Shielding Room Condition : CE LINE Job No. : 01539RG Test Mode : b

: BLE

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19858	0.02	9.63	37.47	47.12	63.67	-16.55	QP
2	0.19858	0.02	9.63	20.77	30.42	53.67	-23.25	AVERAGE
3	0.26252	0.02	9.63	13.66	23.31	51.35	-28.04	AVERAGE
4	0.26252	0.02	9.63	30.75	40.40	61.35	-20.96	QP
5	0.38936	0.02	9.63	31.64	41.29	58.08	-16.78	QP
6	0.38936	0.02	9.63	17.82	27.47	48.08	-20.60	AVERAGE
7	1.094	0.03	9.64	24.94	34.61	46.00	-11.39	AVERAGE
8	1.094	0.03	9.64	34.04	43.71	56.00	-12.29	QP
9	1.708	0.03	9.65	35.62	45.31	56.00	-10.69	QP
10	1.708	0.03	9.65	25.07	34.76	46.00	-11.24	AVERAGE
11	3.227	0.02	9.68	24.02	33.72	46.00	-12.28	AVERAGE
12	3.227	0.02	9.68	32.72	42.42	56.00	-13.58	QP

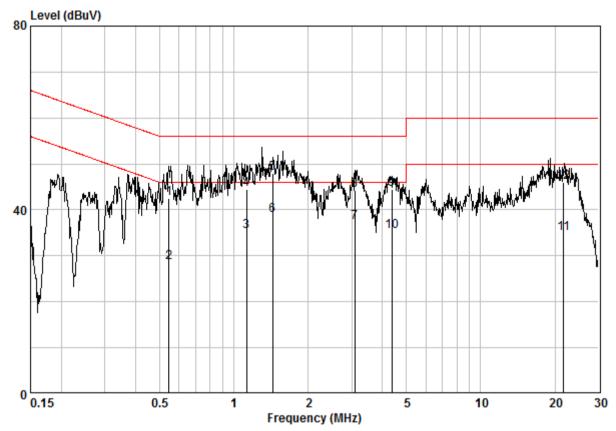
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SZEM170300257104

Page: 16 of 45

Neutral line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 01539RG

Test Mode : b : BLE

Cable LISN Read Limit Over Freq Loss Factor Level Level Line Limit Remark dBuV MHz dB dB dBuV dBuV 0.54565 0.02 9.63 32.90 42.55 56.00 -13.45 QP 0.54565 0.02 9.63 18.84 28.49 46.00 -17.51 AVERAGE 1.125 0.03 9.64 25.64 35.31 46.00 -10.69 AVERAGE 1.125 0.03 9.64 34.88 44.55 56.00 -11.45 QP 1.439 0.03 9.65 38.27 47.95 56.00 -8.05 QP 1.439 0.03 9.65 29.10 38.78 46.00 -7.22 AVERAGE 3.086 0.03 9.67 27.65 37.35 46.00 -8.65 AVERAGE 3.086 0.03 9.67 34.60 44.30 56.00 -11.70 QP 9 4.358 0.02 9.70 34.79 44.52 56.00 -11.48 QP 10 4.358 0.02 9.70 25.56 35.28 46.00 -10.72 AVERAGE 21.650 0.17 10.26 24.38 34.81 50.00 -15.19 AVERAGE 12 21.650 0.17 10.26 35.54 45.97 60.00 -14.03 QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

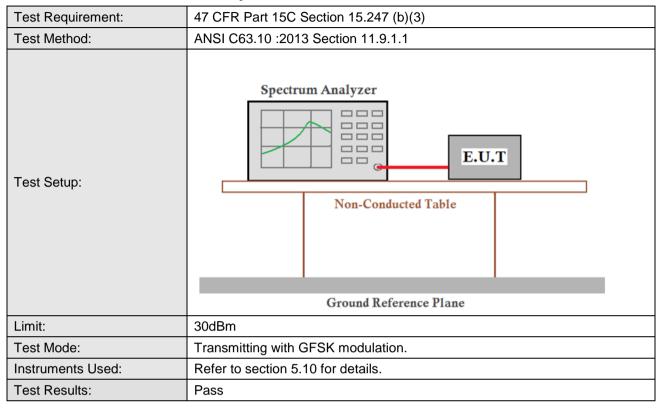
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SZEM170300257104

Page: 17 of 45

6.3 Conducted Peak Output Power



Measurement Data

GFSK mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	Lowest 7.01		Pass				
Middle	8.92	30.00	Pass				
Highest	7.25	30.00	Pass				

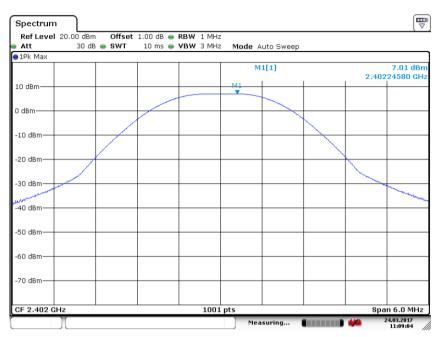


Report No.: SZEM170300257104

Page: 18 of 45

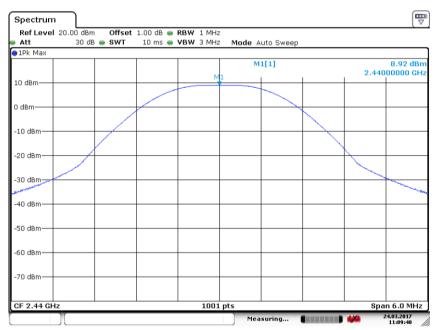
Test plot as follows:

Test mode: GFSK Test channel: Lowest



Date: 24.MAR.2017 11:09:05





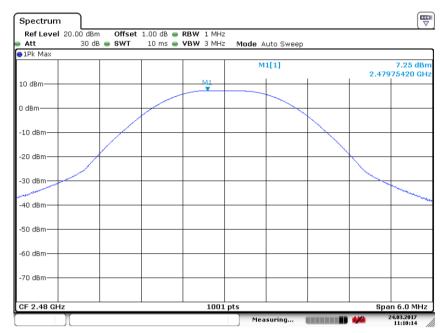
Date: 24.MAR.2017 11:09:41



Report No.: SZEM170300257104

Page: 19 of 45

Test mode: GFSK Test channel: Highest



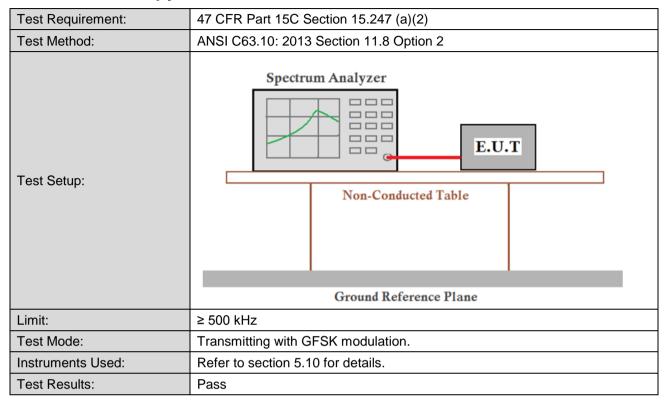
Date: 24.MAR.2017 11:10:14



Report No.: SZEM170300257104

Page: 20 of 45

6.4 6dB Occupy Bandwidth



Measurement Data

GFSK mode								
Test channel 6dB Occupy Bandwidth (kHz) Limit (kHz) Result								
Lowest	677.3	≥500	Pass					
Middle	674.3	≥500	Pass					
Highest	671.3	≥500	Pass					

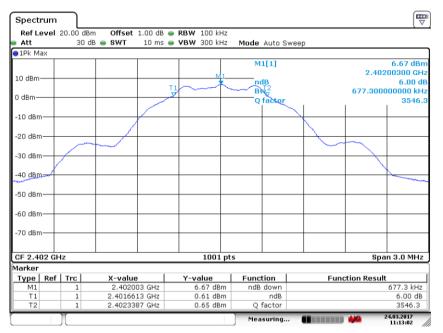


Report No.: SZEM170300257104

Page: 21 of 45

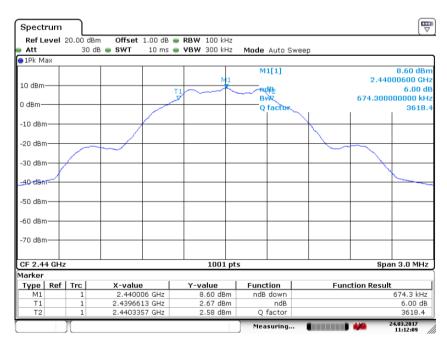
Test plot as follows:

Test mode: GFSK Test channel: Lowest



Date: 24.MAR.2017 11:13:02





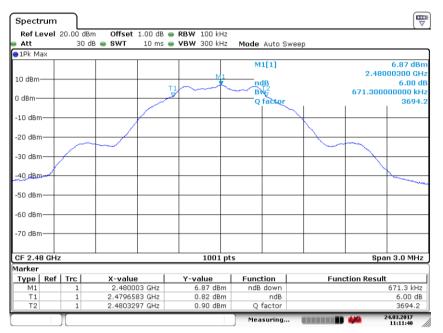
Date: 24.MAR.2017 11:12:10



Report No.: SZEM170300257104

Page: 22 of 45

Test mode: GFSK Test channel: Highest



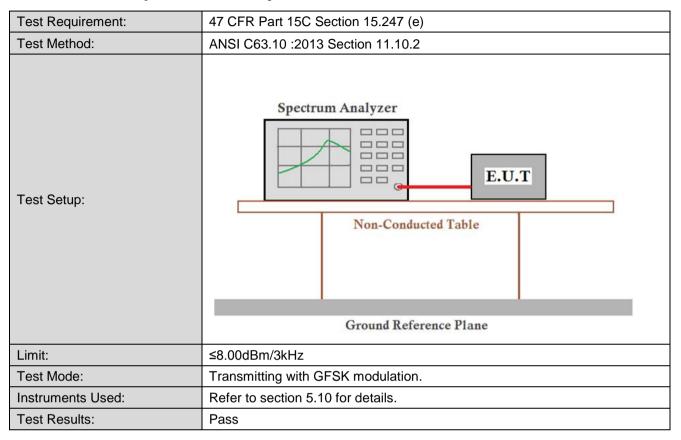
Date: 24.MAR.2017 11:11:40



Report No.: SZEM170300257104

Page: 23 of 45

6.5 Power Spectral Density



Measurement Data

GFSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-8.29	≤8.00	Pass				
Middle	-6.35	≤8.00	Pass				
Highest	-8.07	≤8.00	Pass				

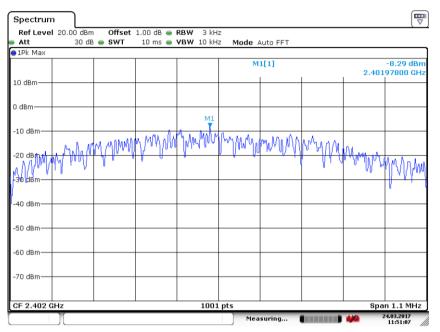


Report No.: SZEM170300257104

Page: 24 of 45

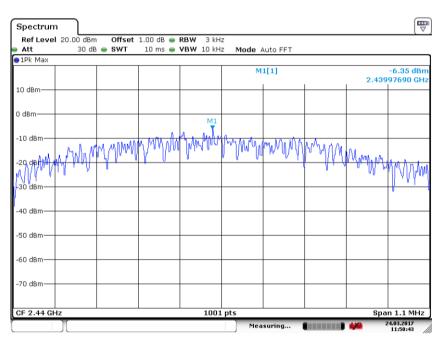
Test plot as follows:

Test mode: GFSK Test channel: Lowest



Date: 24.MAR.2017 11:51:07





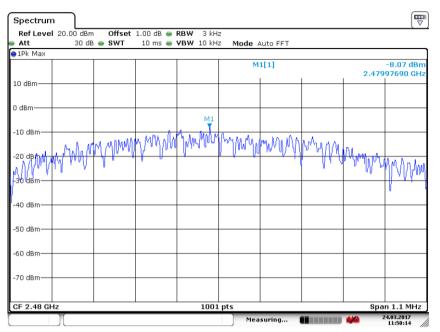
Date: 24.MAR.2017 11:50:44



Report No.: SZEM170300257104

Page: 25 of 45

Test mode:	GFSK	Test channel:	Highest
	G. G		g



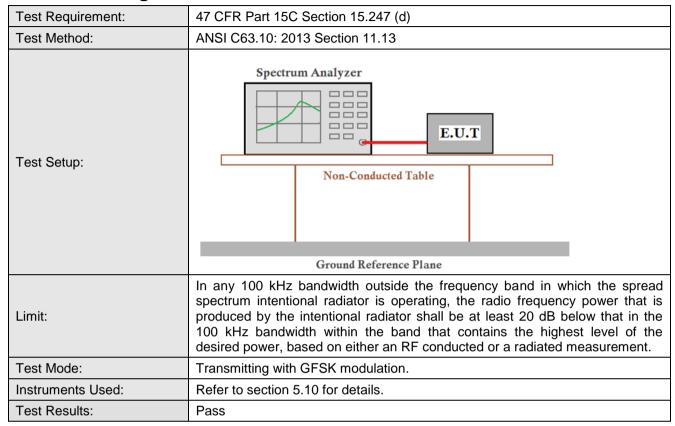
Date: 24.MAR.2017 11:50:14



Report No.: SZEM170300257104

Page: 26 of 45

6.6 Band-edge for RF Conducted Emissions



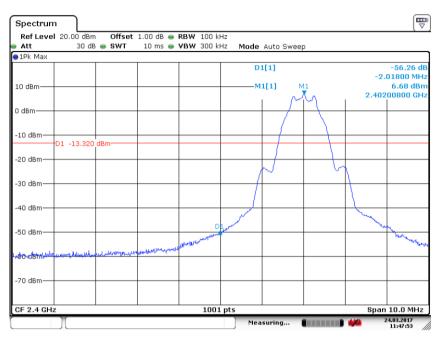


Report No.: SZEM170300257104

Page: 27 of 45

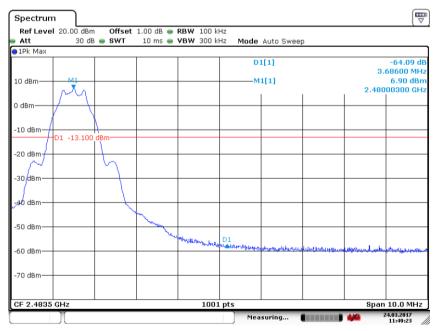
Test plot as follows:

Test mode: GFSK Test channel: Lowest



Date: 24.MAR.2017 11:47:54





Date: 24.MAR.2017 11:49:24



Report No.: SZEM170300257104

Page: 28 of 45

6.7 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.11			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.			
Test Mode:	Transmitting with GFSK modulation.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			

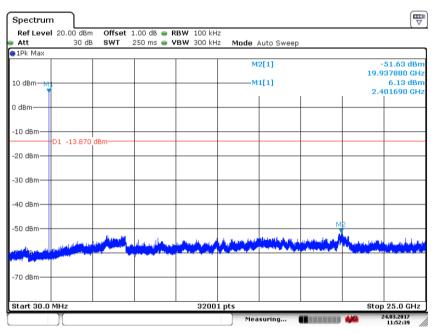


Report No.: SZEM170300257104

Page: 29 of 45

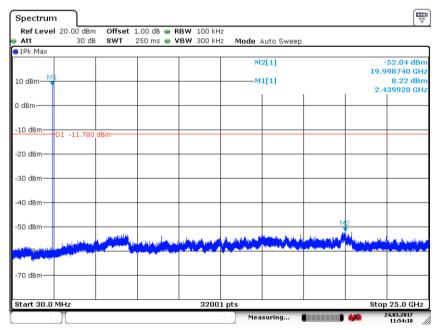
Test plot as follows:

Test mode: GFSK Test channel: Lowest



Date: 24.MAR.2017 11:52:39





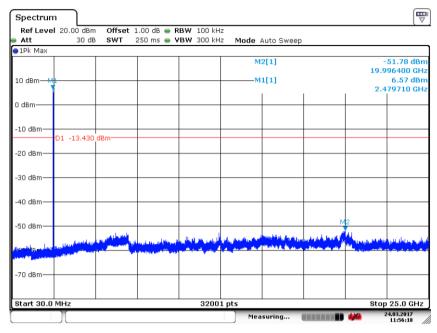
Date: 24.MAR.2017 11:54:19



Report No.: SZEM170300257104

Page: 30 of 45

Test mode: GFSK Test channel: Highest



Date: 24.MAR.2017 11:56:18

Remark:

Scan from 9kHz to 25GHz, the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Report No.: SZEM170300257104

Page: 31 of 45

6.8 Radiated Spurious Emission

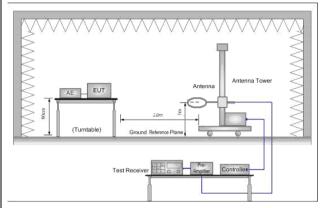
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 11.12								
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)								
	Frequency		Detector	RBW	VBW		Remark		
	0.009MHz-0.090MH	Z	Peak	10kHz	30kHz		Peak		
	0.009MHz-0.090MH	z	Average	10kHz	30kHz		Average		
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz		Quasi-peak		
Receiver Setup:	0.110MHz-0.490MH	z	Peak	10kHz	30kHz		Peak		
Receiver Setup.	0.110MHz-0.490MH	z	Average	10kHz	30kHz		Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz		Quasi-peak		
	30MHz-1GHz	30MHz-1GHz		100 kHz	300kHz		Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz		Peak		
			Peak	1MHz	10Hz		Average		
	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark		Measurement distance (m)		
	0.009MHz-0.490MHz		400/F(kHz)	-	-		300		
	0.490MHz-1.705MHz	24	4000/F(kHz)	-	-		30		
	1.705MHz-30MHz		30	-	-		30		
	30MHz-88MHz		100	40.0	Quasi-pe	ak	3		
Limit:	88MHz-216MHz		150	43.5	Quasi-pe	ak	3		
	216MHz-960MHz		200	46.0	Quasi-pe	ak	3		
	960MHz-1GHz		500	54.0	Quasi-pe	ak	3		
	Above 1GHz		500	54.0	Average)	3		
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						limit applicable		



Report No.: SZEM170300257104

Page: 32 of 45

Test Setup:



Antenna Tower

Antenna Tower

I Cround Reference Plane

Test Receiver Plane

Test Receiver Plane

Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

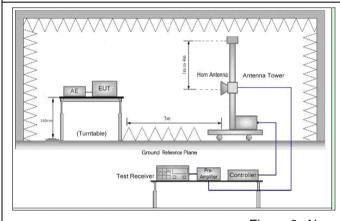


Figure 3. Above 1 GHz

measurement.

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic camber. 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 semi-anechoic camber. 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
- 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

Test Procedure:

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.



Report No.: SZEM170300257104

Page: 33 of 45

	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 (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)				
	 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.				
Exploratory Test Mode:	Transmitting with GFSK modulation.				
Exploratory rest wode.	Charge + Transmitting mode.				
	Transmitting with GFSK modulation.				
	Pretest the EUT at Charge + Transmitting mode,				
Final Test Mode:	For below 1GHz part, through pre-scan, the worst case is the lowest channel.				
	Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				



Report No.: SZEM170300257104

Page: 34 of 45

6.8.1 Radiated Emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

 D_3 : 3m distance. Unit: m D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

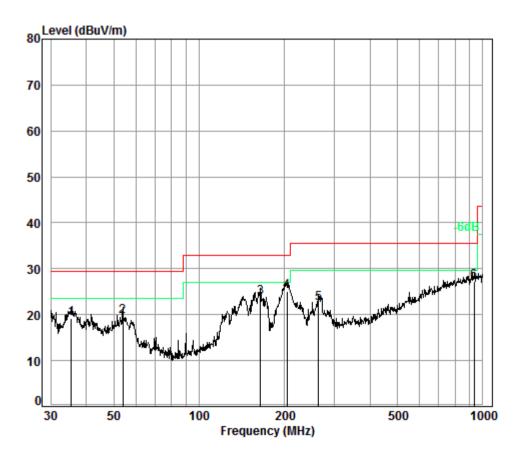
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Over Limit (dB)	Ant. Polarization
35.50	19.29	9.22	30.72	29.75	40.00	-10.25	V
53.88	19.58	9.53	31.76	30.04	40.00	-9.96	V
164.91	23.72	15.35	51.15	34.18	43.50	-9.32	V
204.24	25.13	18.05	60.17	35.59	43.50	-7.91	V
263.82	22.37	13.14	43.79	32.83	46.00	-13.17	V
932.27	27.25	23.04	76.80	37.71	46.00	-8.29	V
42.45	15.77	6.14	20.48	26.23	40.00	-13.77	Н
54.07	16.89	6.99	23.30	27.35	40.00	-12.65	Н
166.65	20.48	10.57	35.23	30.94	43.50	-12.56	Н
272.28	18.36	8.28	27.60	28.82	46.00	-17.18	Н
663.47	24.19	16.20	54.00	34.65	46.00	-11.35	Н
968.93	27.39	23.42	78.05	37.85	54.00	-16.15	Н



Report No.: SZEM170300257104

Page: 35 of 45

30MHz~1GHz (QP)		
Test mode:	Charge + Transmitting	Vertical



Condition: 10m VERTICAL

Job No. : 02571RG

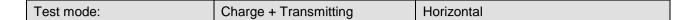
Test Mode: BLE

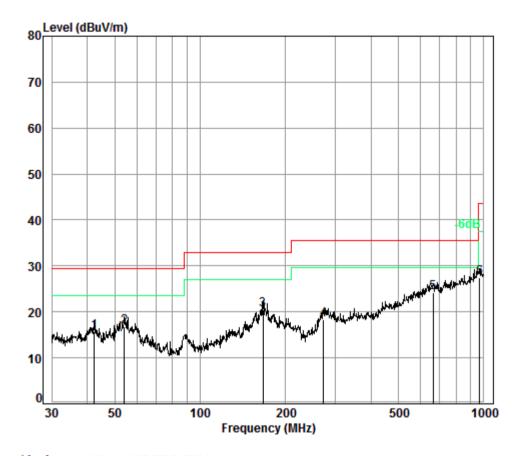
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.50	6.71	12.71	32.98	32.85	19.29	29.50	-10.21
2	53.88	6.98	12.46	32.98	33.12	19.58	29.50	-9.92
3	164.91	7.50	12.91	32.73	36.04	23.72	33.00	-9.28
4 pp	204.24	7.62	9.39	32.69	40.81	25.13	33.00	-7.87
5	263.82	7.92	11.62	32.63	35.46	22.37	35.60	-13.23
6	932.27	9.53	22.61	32.50	27.61	27.25	35.60	-8.35



Report No.: SZEM170300257104

Page: 36 of 45





Condition: 10m HORIZONTAL

Job No. : 02571RG Test Mode: BLE

	nouc. DEE							
		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	42.45	6.80	13.11	32.99	28.85	15.77	29.50	-13.73
2	54.07	6.98	12.45	32.98	30.44	16.89	29.50	-12.61
3	166.65	7.50	12.74	32.73	32.97	20.48	33.00	-12.52
4	272.28	7.96	11.92	32.62	31.10	18.36	35.60	-17.24
5 pp	663.47	9.06	19.70	32.60	28.03	24.19	35.60	-11.41
6	968.93	9.60	22.79	32.50	27.50	27.39	43.50	-16.11



Report No.: SZEM170300257104

Page: 37 of 45

Transmitter Emission above 1GHz

Test mode:	(GFSK Test channel: Lowest Remark:		Peak				
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3497.281	32.2	6.3	37.95	44.69	45.77	74	-28.23	Vertical
4804.000	34.16	7.73	38.4	45.53	49.41	74	-24.59	Vertical
5761.355	34.56	8.52	38.35	44.49	49.62	74	-24.38	Vertical
7206.000	36.42	9.65	37.11	42.98	52.20	74	-21.80	Vertical
9608.000	37.52	11.06	35.10	39.06	52.99	74	-21.01	Vertical
12350.53	38.81	12.92	36.44	37.77	53.72	74	-20.28	Vertical
3853.298	33.21	6.59	37.99	44.79	47.08	74	-26.92	Horizontal
4804.000	34.16	7.73	38.40	45.49	49.37	74	-24.63	Horizontal
5887.766	34.63	8.64	38.32	44.46	49.77	74	-24.23	Horizontal
7206.000	36.42	9.65	37.11	42.92	52.14	74	-21.86	Horizontal
9608.000	37.52	11.06	35.10	39.33	53.26	74	-20.74	Horizontal
12243.77	38.75	12.76	36.19	37.09	53.10	74	-20.90	Horizontal

Test mode:	Test mode: GFSK		Test	Test channel:		Rem	nark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3537.998	32.31	6.33	37.95	45.17	46.39	74	-27.61	Vertical
4880.000	34.29	7.83	38.44	45.06	49.15	74	-24.85	Vertical
5862.263	34.62	8.62	38.33	44.23	49.51	74	-24.49	Vertical
7320.000	36.37	9.73	37.01	43.29	52.62	74	-21.38	Vertical
9760.000	37.55	11.21	35.02	39.28	53.48	74	-20.52	Vertical
12585.040	38.88	13.18	37.00	37.01	52.65	74	-21.35	Vertical
3668.321	32.69	6.44	37.97	44.12	45.79	74	-28.21	Horizontal
4880.000	34.29	7.83	38.44	44.41	48.50	74	-25.50	Horizontal
6329.508	34.97	8.96	37.97	43.97	50.24	74	-23.76	Horizontal
7320.000	36.37	9.73	37.01	42.68	52.01	74	-21.99	Horizontal
9760.000	37.55	11.21	35.02	38.90	53.1	74	-20.90	Horizontal
12155.51	38.69	12.63	35.97	36.70	52.77	74	-21.23	Horizontal



Report No.: SZEM170300257104

Page: 38 of 45

Test mode:		GFSK	Te	st channel:	Highest	Re	mark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3909.457	33.36	6.63	37.99	44.41	46.88	74	-27.12	Vertical
4960.000	34.43	7.95	38.48	44.82	49.15	74	-24.85	Vertical
5753.025	34.56	8.51	38.35	44.49	49.61	74	-24.39	Vertical
7440.000	36.32	9.81	36.90	42.20	51.65	74	-22.35	Vertical
9920.000	37.58	11.36	34.94	39.22	53.68	74	-20.32	Vertical
12694.78	38.86	13.23	37.27	38.14	53.51	74	-20.49	Vertical
3532.883	32.3	6.33	37.95	44.88	46.09	74	-27.91	Horizontal
4960.000	34.43	7.95	38.48	44.42	48.75	74	-25.25	Horizontal
6122.333	34.8	8.83	38.18	44.18	49.92	74	-24.08	Horizontal
7440.000	36.32	9.81	36.90	42.81	52.26	74	-21.74	Horizontal
9920.000	37.58	11.36	34.94	38.45	52.91	74	-21.09	Horizontal
12566.85	38.89	13.17	36.96	37.93	53.62	74	-20.38	Horizontal

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 13GHz 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 the peak measurements were shown in the report.

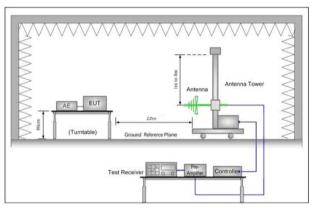


Report No.: SZEM170300257104

Page: 39 of 45

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12							
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)							
	Frequency	Limit (dBuV/m @3m) Remark							
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
Limit:	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						
Test Setup:									



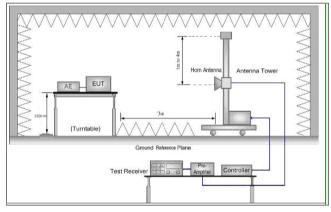


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic camber. 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 semi-anechoic camber. 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.

Test Procedure:

- 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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- h. Test the EUT in the lowest 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.
 - Repeat above procedures until all frequencies measured was complete

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.sapx and, for electronic format documents, subject to Terms and Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-end-Conditions.sapx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility to its Client and this document does not expend the concent of the transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.



Report No.: SZEM170300257104

Page: 40 of 45

Exploratory Test Mode:	Transmitting with GFSK modulation.
Exploratory root mode.	Charge + Transmitting mode.
	Transmitting with GFSK modulation.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

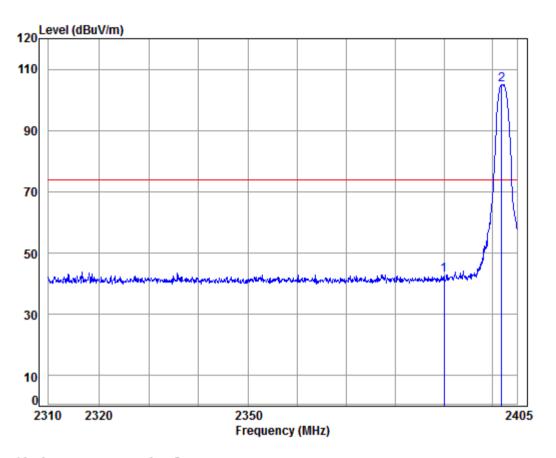
Test plot as follows:

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Vertical



Report No.: SZEM170300257104

Page: 41 of 45



Condition: 3m Vertical Job No: : 02571RG

Mode: : 2402 Band edge

: BLE

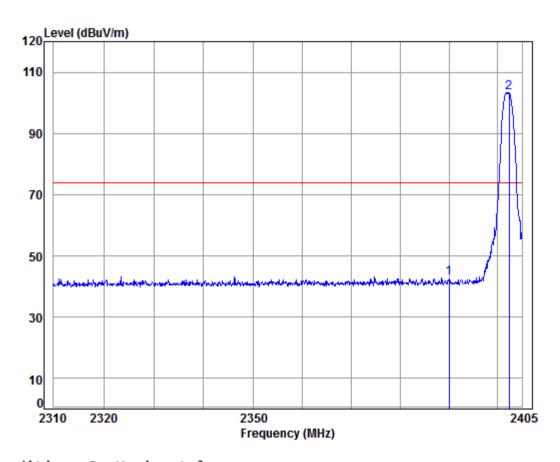
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m 5.34 29.08 37.96 46.44 42.90 74.00 -31.10 2390.000 2 pp 2401.803 5.35 29.11 37.96 108.37 104.87 74.00 30.87



Report No.: SZEM170300257104

Page: 42 of 45

Worse case mode: GFSK Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 02571RG

Mode: : 2402 Band edge

: BLE

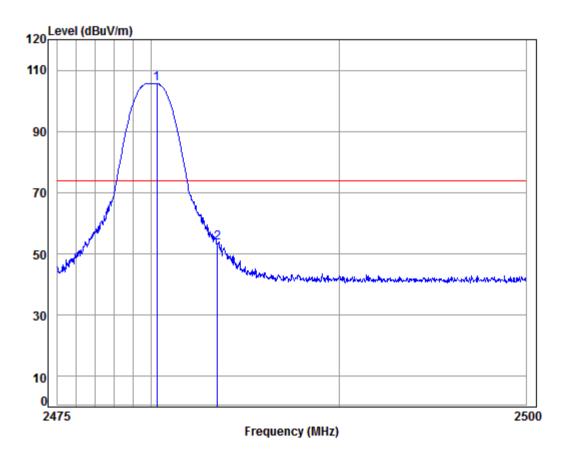
	Freq						Limit Line	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.000 2402.288							



Report No.: SZEM170300257104

Page: 43 of 45

Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak	Vertical
------------------	------	---------------	---------	---------	------	----------



Condition: 3m Vertical Job No: : 02571RG

Mode: : 2480 Band edge

: BLE

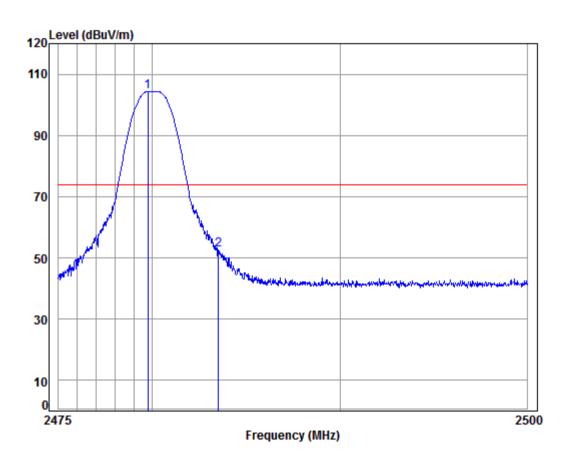
	Limit Line						Freq		
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-	
							2480.279 2483.500		



Report No.: SZEM170300257104

Page: 44 of 45

٧	Vorse case mode:	GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
---	------------------	------	---------------	---------	---------	------	------------



Condition: 3m Horizontal

Job No: : 02571RG

1

Mode: : 2480 Band edge

: BLE

	Limit Line						Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	
							p 2479.756 2483.500	pp



Report No.: SZEM170300257104

Page: 45 of 45

Note:

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

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1703002571RG.