

TEST REPORT

Applicant: GSM GLOBE.COM INC

Address of Applicant: 8212 NW 30 TERRACE, DORAL, Florida 33122, United States

Manufacturer/Factory: Z-TECH COMMUNICATION(SZ)CO LTD

Address of Manufacturer/Factory: 7/F BLK D BAO'AN ZHI'GU YIN'TIAN RD. NO.4 XI'XIANG ST' BAO'AN SZ CN

Equipment Under Test (EUT)

Product Name: MOBILE PHONES

Model No.: F11

Trade Mark: GOL

FCC ID: 2AEJAF11

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: August 18, 2020

Date of Test: August 18-28, 2020

Date of report issued: August 28, 2020

Test Result : PASS *

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

Authorized Signature:



Robinson Lo

Laboratory Manager

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2 Version

Version No.	Date	Description
00	August 28, 2020	Original

Prepared By:



Project Engineer

Date:

August 28, 2020

Check By:



Reviewer

Date:

August 28, 2020

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4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	PASS
Radiated Emissions #	FCC Part15.109	ANSI C63.4	Class B	PASS

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

The highest frequency generated or used in the EUT	Test frequency range of Radiated emission
<108MHz	30MHz ~ 1GHz
108MHz ~ 500MHz	30MHz ~ 2GHz
500MHz ~ 1GHz	30MHz ~ 5GHz
>1GHz	30MHz ~ 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Note: the EUT Internal clock frequency above 108MHz.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	MOBILE PHONES
Model No.:	F11
Serial No.:	JY200721000036
Hardware Version:	Y891_MB_V2
Software Version:	GOL_F11_V03
Test sample(s) ID:	GTS202008000140-2
Sample(s) Status:	Normal sample
Power Supply:	Adaptor Model: F10 Input: AC 100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1Amp Or Battery: DC 3.8V, 3000mAh

5.2 Test mode and Test voltage

Test mode:	
PC mode	Keep the EUT in exchanging data mode.
REC mode	Keep the EUT in REC mode.
Video play mode	Keep the EUT in Video play mode.
Test voltage	
AC 120V and DC 3.8V	

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Lenovo	Notebook PC	E40-80	N/A
Apple	PC	A1278	C1MN99ERDTY3

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> • FCC —Registration No.: 381383 Global United Technology 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 files. Registration 381383. • IC —Registration No.: 9079A The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A. • NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0
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5.7 Test Location

The test was performed at:
<p>Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

6 Test Instruments list

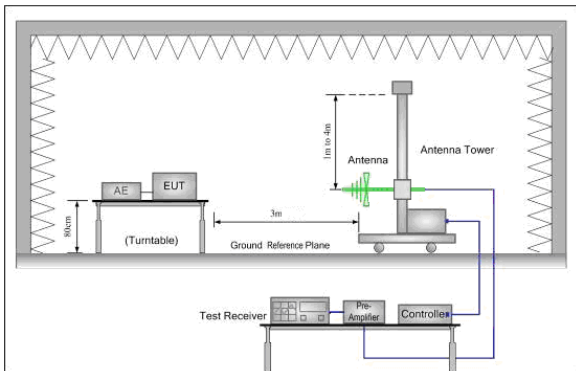
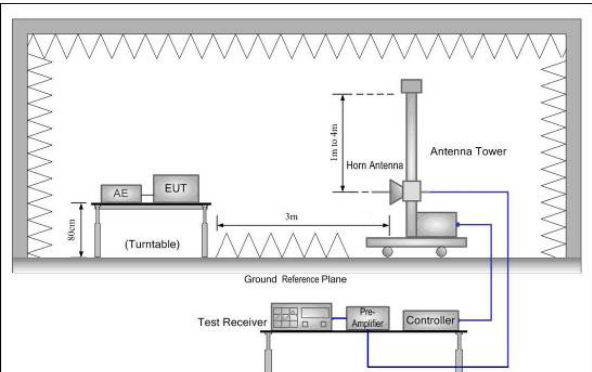
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test Results and Measurement Data

7.1 Radiated Emission

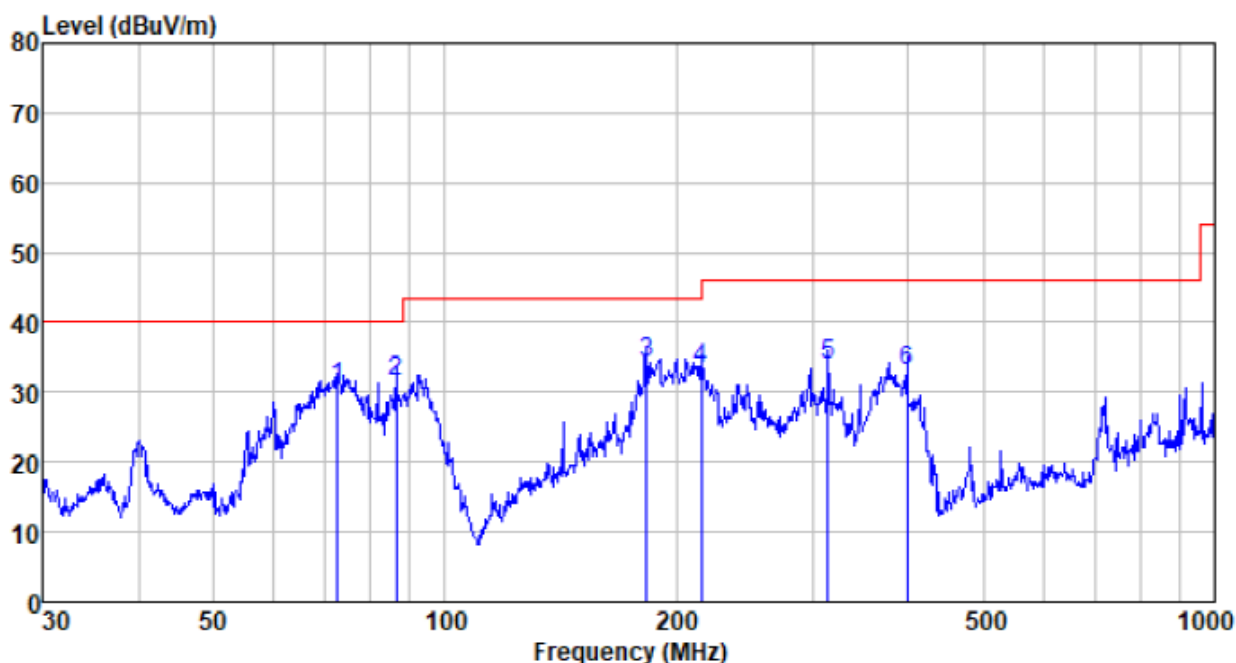
Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz	54.00		Average Value	
74.00		Peak Value			
Test setup:	For radiated emissions from 30MHz to1GHz				
					
Test setup:	For radiated emissions above 1GHz				
					

Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. 					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details, only show the worst case.					
Test results:	Pass					

Measurement Data

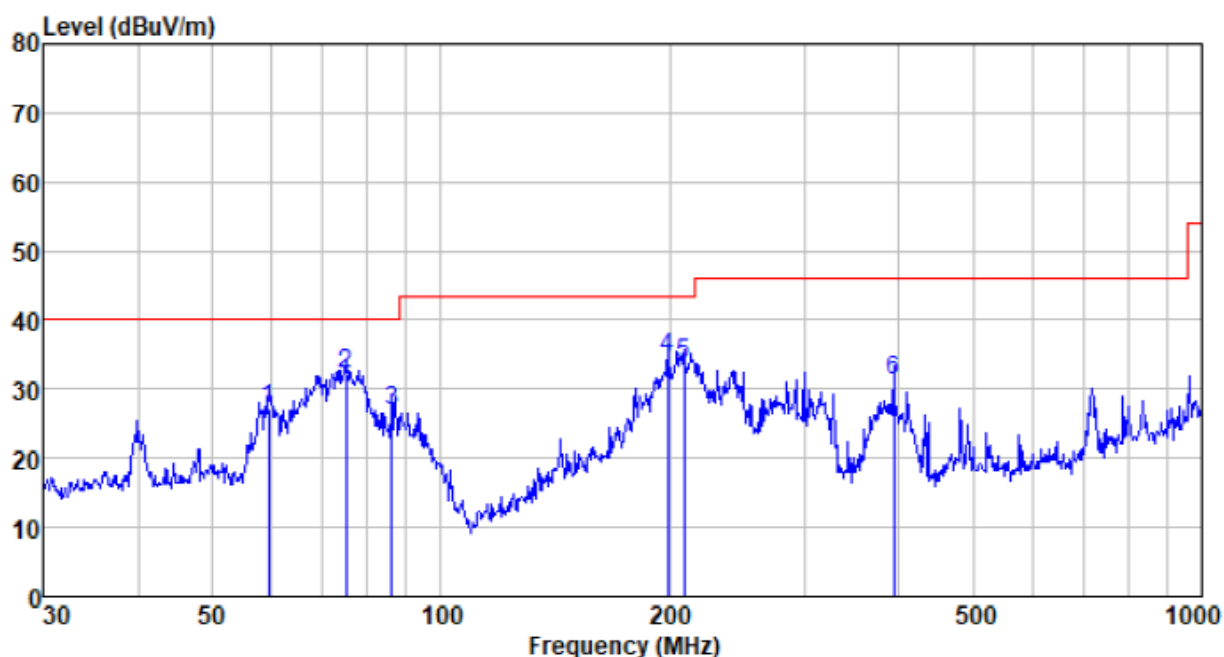
Below 1GHz

Test mode:	PC mode	Antenna Polarity:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
72.592	58.74	7.47	0.96	36.47	30.70	40.00	-9.30	QP
86.503	57.63	9.56	1.08	36.61	31.66	40.00	-8.34	QP
182.559	60.57	9.15	1.75	37.25	34.22	43.50	-9.28	QP
215.268	57.90	10.98	1.93	37.35	33.46	43.50	-10.04	QP
314.377	55.20	13.87	2.44	37.44	34.07	46.00	-11.93	QP
399.030	52.43	15.30	2.85	37.52	33.06	46.00	-12.94	QP

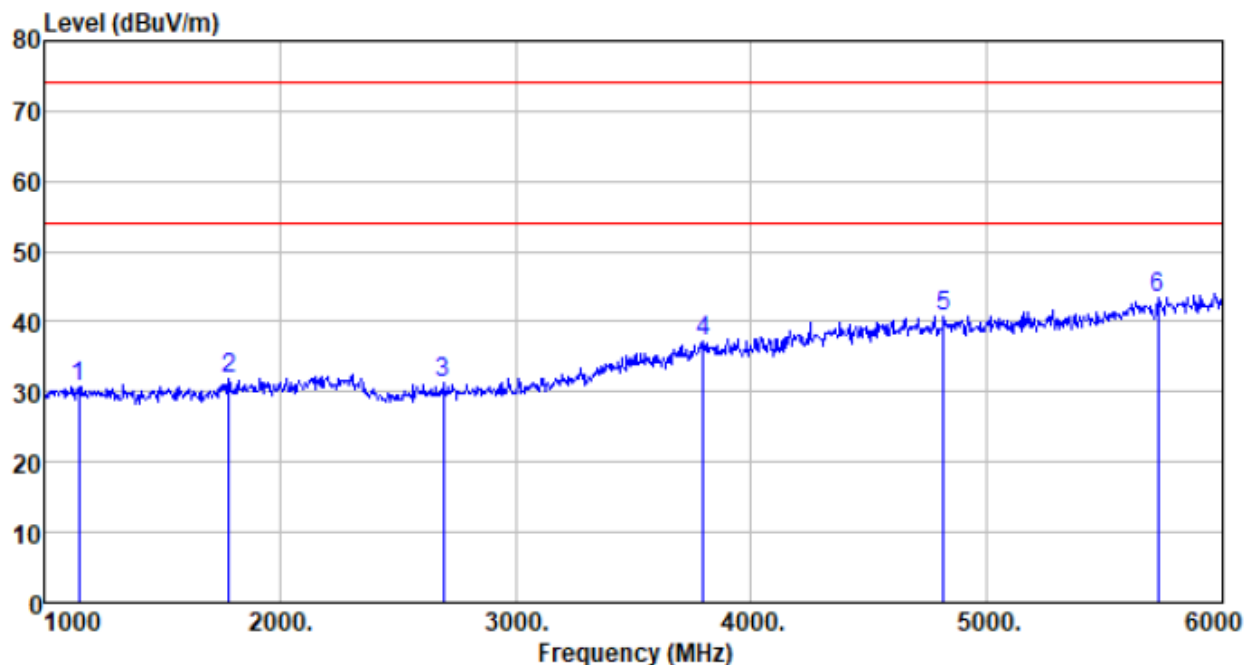
Test mode:	PC mode	Antenna Polarity:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
59.441	51.25	11.38	0.86	36.31	27.18	40.00	-12.82	QP
74.919	60.23	7.45	0.98	36.50	32.16	40.00	-7.84	QP
86.200	53.04	9.43	1.08	36.60	26.95	40.00	-13.05	QP
198.588	59.86	10.31	1.83	37.32	34.68	43.50	-8.82	QP
208.580	58.46	10.73	1.89	37.34	33.74	43.50	-9.76	QP
393.472	50.90	15.22	2.82	37.51	31.43	46.00	-14.57	QP

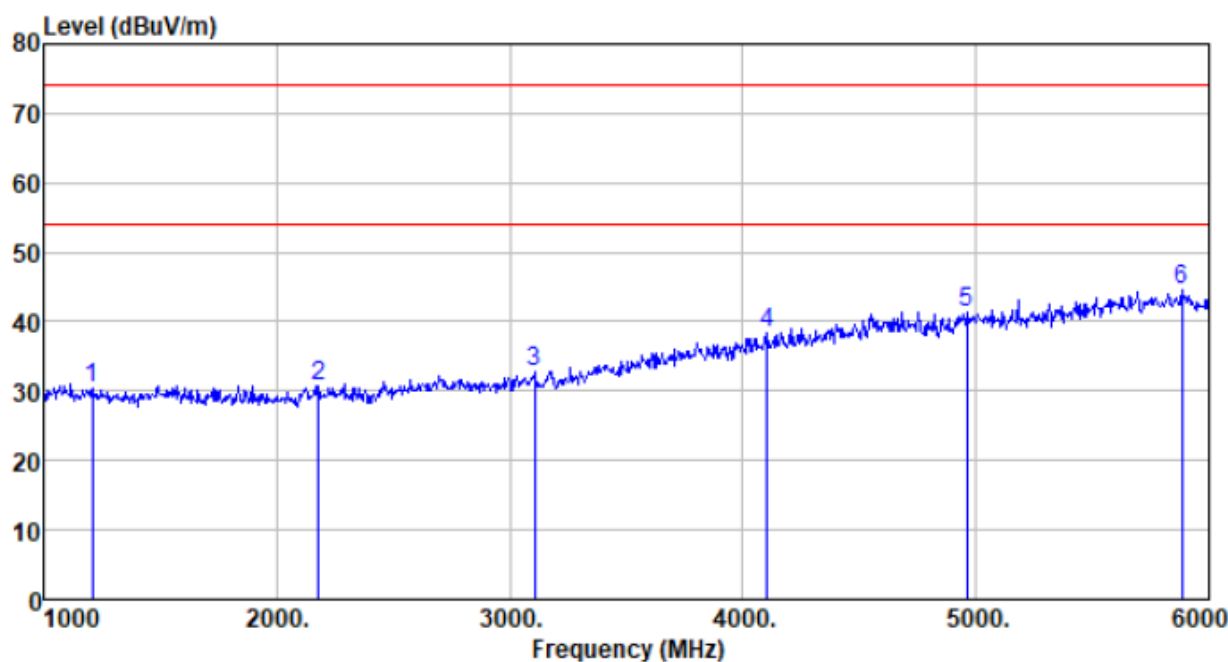
Above 1GHz

Test mode:	PC mode	Antenna Polarity:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
1145.000	37.37	24.65	4.47	35.73	30.76	74.00	-43.24	Peak
1785.000	37.10	26.01	5.40	36.50	32.01	74.00	-41.99	Peak
2695.000	33.79	28.05	6.76	37.21	31.39	74.00	-42.61	Peak
3795.000	37.06	29.07	8.42	37.48	37.07	74.00	-36.93	Peak
4815.000	37.59	31.37	9.37	37.58	40.75	74.00	-33.25	Peak
5725.000	38.08	32.14	10.07	36.78	43.51	74.00	-30.49	Peak

Test mode:	PC mode	Antenna Polarity:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
1210.000	36.85	24.80	4.53	35.83	30.35	74.00	-43.65	Peak
2180.000	34.62	26.87	5.99	36.85	30.63	74.00	-43.37	Peak
3105.000	34.18	28.54	7.38	37.41	32.69	74.00	-41.31	Peak
4105.000	37.24	29.85	8.82	37.51	38.40	74.00	-35.60	Peak
4960.000	37.88	31.63	9.48	37.60	41.39	74.00	-32.61	Peak
5885.000	38.36	32.52	10.20	36.62	44.46	74.00	-29.54	Peak

Note:

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

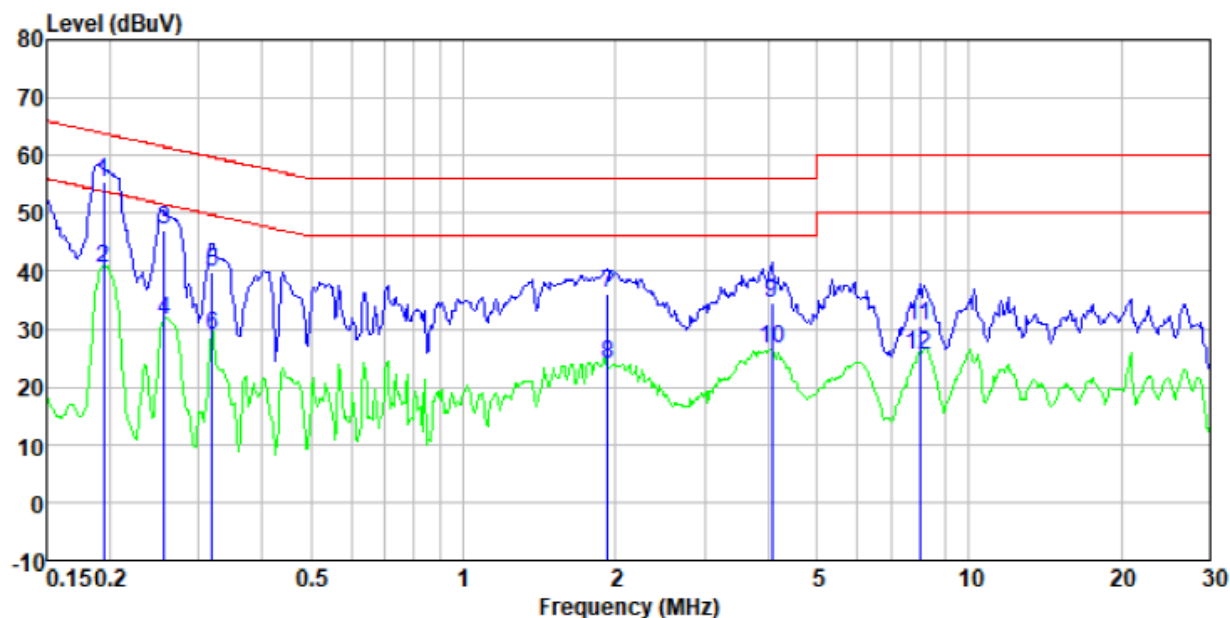
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

7.2 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107																			
Test Method:	ANSI C63.4:2014																			
Test Frequency Range:	150kHz to 30MHz																			
Class / Severity:	Class B																			
Receiver setup:	RBW=9kHz, VBW=30kHz																			
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>0.5-30</td><td>60</td><td>50</td></tr></table>						Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50
Frequency range (MHz)	Limit (dBμV)																			
	Quasi-peak	Average																		
0.15-0.5	66 to 56*	56 to 46*																		
0.5-5	56	46																		
0.5-30	60	50																		
Test setup:	<div><p style="text-align: center;">Reference Plane</p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>																			
Test procedure	<div><div>1.</div><div>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</div></div> <div><div>2.</div><div>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</div></div> <div><div>3.</div><div>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</div></div>																			
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar														
Test Instruments:	Refer to section 6 for details																			
Test mode:	Refer to section 5.2 for details, only show the worst case.																			
Test results:	Pass																			

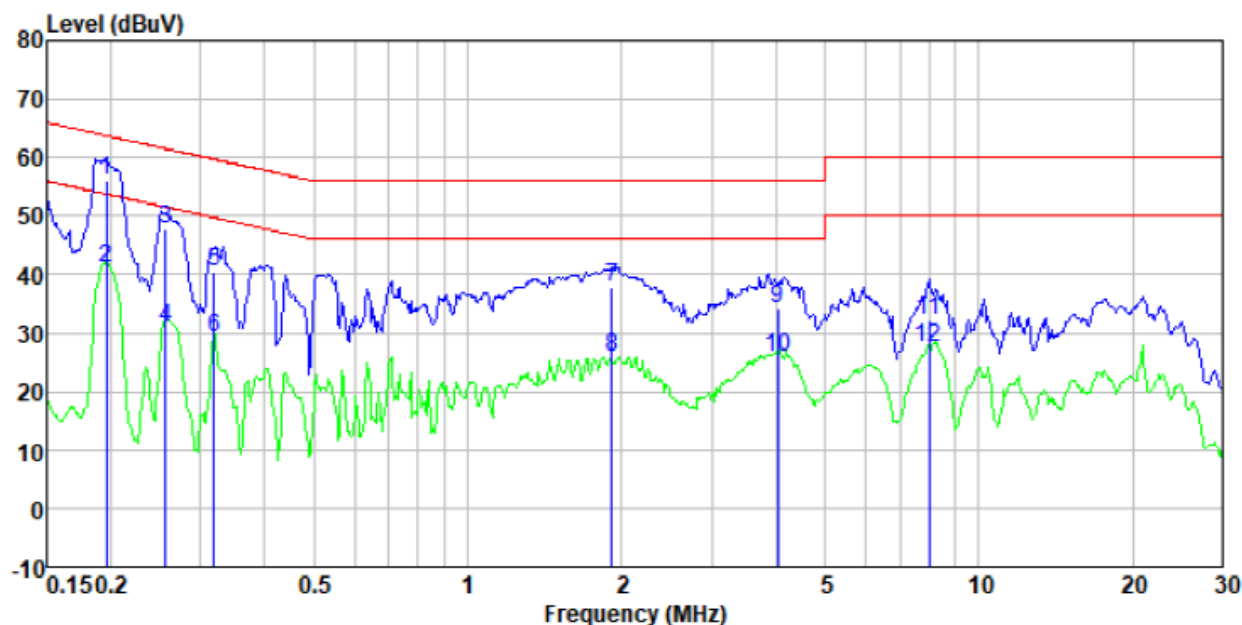
Measurement Data

Test mode:	PC mode	Phase Polarity:	Line
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Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.19	34.97	20.40	0.11	55.48	63.84	-8.36	QP
0.19	19.81	20.40	0.11	40.32	53.84	-13.52	Average
0.26	26.76	20.40	0.10	47.26	61.56	-14.30	QP
0.26	10.94	20.40	0.10	31.44	51.56	-20.12	Average
0.32	19.33	20.39	0.10	39.82	59.75	-19.93	QP
0.32	8.50	20.39	0.10	28.99	49.75	-20.76	Average
1.93	15.92	20.20	0.17	36.29	56.00	-19.71	QP
1.93	3.39	20.20	0.17	23.76	46.00	-22.24	Average
4.07	14.05	20.20	0.18	34.43	56.00	-21.57	QP
4.07	6.30	20.20	0.18	26.68	46.00	-19.32	Average
7.98	10.25	20.20	0.19	30.64	60.00	-29.36	QP
7.98	5.13	20.20	0.19	25.52	50.00	-24.48	Average

Test mode:	PC mode	Phase Polarity:	Neutral
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Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.20	35.54	20.40	0.11	56.05	63.76	-7.71	QP
0.20	20.55	20.40	0.11	41.06	53.76	-12.70	Average
0.26	27.14	20.40	0.10	47.64	61.56	-13.92	QP
0.26	10.48	20.40	0.10	30.98	51.56	-20.58	Average
0.32	19.91	20.39	0.10	40.40	59.75	-19.35	QP
0.32	8.83	20.39	0.10	29.32	49.75	-20.43	Average
1.92	17.50	20.20	0.17	37.87	56.00	-18.13	QP
1.92	5.62	20.20	0.17	25.99	46.00	-20.01	Average
4.05	13.85	20.20	0.18	34.23	56.00	-21.77	QP
4.05	5.64	20.20	0.18	26.02	46.00	-19.98	Average
7.98	11.69	20.20	0.19	32.08	60.00	-27.92	QP
7.98	7.04	20.20	0.19	27.43	50.00	-22.57	Average

Notes:

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

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----