Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 1 of 28

## **TEST REPORT**

Test Result:	Pass*		
Date of Issue:	2022/7/21		
Date of Test:	2022/7/18 to 2022/7/19		
Date of Receipt:	2022/7/7		
Standard(s):	FCC 47 CFR Part 15, Subpart B		
FCC ID:	2AFZZ283G		
Trade Mark:	Redmi		
Model No.:	22081283G		
EUT Description:	Tablet Computer		
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085		
Manufacturer:	Xiaomi Communications Co., Ltd.		
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing China, 100085		
Applicant:	Xiaomi Communications Co., Ltd.		
Application No:	SEWM2207000111RG		

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

Authorized Signature:

anta Sun

Panta Sun Wireless Laboratory Manager



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 2 of 28

Revision Record					
Version Chapter Date Modifier Remark					
01		2022/7/21		Original	

Prepared By	Weller Liu) / Test Supervisor
Checked By	(Well Wei) / Reviewer



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 3 of 28

## **Test Summary**

Emission Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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## Contents

1	Ger	eral Information	5
	1.1 1.2 1.3 1.4 1.5	Description of Support Units Test Location Test Facility Deviation from Standards Abnormalities from Standard Conditions	
2	Emi	ssion Test Results	7
	2.1 2.1. 2.1. 2.2 2.2. 2.2. 2.2. 2.3 2.3 2.3. 2.3.	Conducted Emissions at Mains Terminals (150kHz-30MHz) 1 E.U.T. Operation 2 Test Setup Procedures 3 Measurement Data Radiated Emissions (30MHz-1GHz) 1 E.U.T. Operation 2 Test Setup Procedures 3 Measurement Data Radiated Emissions (above 1GHz) 1 E.U.T. Operation 2 Test Setup Procedures 3 Measurement Data 3 Measurement Data 3 Measurement Data	
3	Equ	ipment List	25
4	Меа	asurement Uncertainty	27
5	Pho	tographs	28
	5.1	Test Setup	28



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 5 of 28

## **1** General Information

Product Name:	Tablet Computer			
Model No. (EUT):	22081283G	22081283G		
Trade Mark:	Redmi	Redmi		
Hardware Version:	P1.1	P1.1		
Software Version:	MIUI 13			
	Band	Tx (MHz)	Rx (MHz)	
Frequency Bands:	Wi-Fi 2.4G	2412~2462	2412~2462	
	Bluetooth	2402~2480	2402~2480	
	Wi-Fi 5G	5150~5850	5150~5850	

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

#### Accessory:

Adapter No.	Model No.	Specification
1	MDY-11-EQ	Xiaomi Communications Co.,Ltd.

Cable No.	Model No.	Manufacturer
1	K73312	Keli



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 6 of 28

### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06

### 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

### 1.3 Test Facility

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

### • A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

### Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

### • FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

### **1.4 Deviation from Standards**

### None

### **1.5 Abnormalities from Standard Conditions**

None



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 7 of 28

## 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B			
Test Method:	ANSI C63.4:2014			
Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
	Frequency Range (MHz)	Limit(dBµV)		
		Quasi-peak	average	
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*	
Limit:	0.5M-5MHz	56	46	
	5M-30MHz 60 50		50	
	*Decreases with the logarithm of the frequency			
	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

## 2.1.1 E.U.T. Operation

S

**Operating Environment:** 

Temperature:	22~25°C
Humidity:	44~60%RH
Atmospheric Pressure:	101.0kPa
	a: Adaptor+USB+BT IdIe+WLAN(2.4G)+Camera(Rear)-6+128G
	b: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-6+128G
	c: Adaptor+USB+BT IdIe+WLAN(2.4G)+MP4-6+128G
	d: Adaptor+USB+BT Idle+WLAN(5G)+Scan Code-6+128G
Pretest these modes to	e: Adaptor+USB+BT IdIe+WLAN(2.4G) -6+128G
find the worst case:	f: Transfer data between the EUT and the PC+USB cable-6+128G
	g: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-4+128G
	h: Transfer data between the EUT and the PC+USB cable-4+128G
	i: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)-3+64G
	j: Transfer data between the EUT and the PC+USB cable-3+64G
The worst case for final	e: Adaptor+USB+BT Idle+WLAN(2.4G) -6+128G
test:	h: Transfer data between the EUT and the PC+USB cable-4+128G



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 8 of 28

### 2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.

8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



### 2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 9 of 28

Final	Test Mode:		Mode e			Phase:			Line		
	400			FCC	C PART 15 B CLAS	S B(ENV216 L1-	+ENV216 L1)				
	120-										
	100										
	00										
	80-										
	5 70-										
									FCC PART 15	B CLASS B-QP Li	mit
	50-								FCC PART 15	B CLASS B-AV Li	mit
	40 - 1										
	30-	Mm	MARMA	/r/w/when	3 "Wranking	erypertylessessister	"Wurther"			<u> </u>	
	20-						141	•		X. N	*
	10-										
	0							<u> </u>	014		2014
	IJUK			TIVI	Fn	equency[Hz]		I	UNI		30101
	QP	Limit — A	AV Limit — PH	¢							
	♦ QP I	Detector 🔶	AV Detector								
Fina	al Data L	ist									
	_		QP	QP	QP	QP	AV	AV	AV	AV	
NO	Frequenc	Facto r	Readin	Value	Limit	Margi	Readin	Value	Limit	Margi	Verdic
•	[MHz]	[dB]	g [dBuV]	[dBµV	[dBµV	n [dB]	g [dBuV]	[dBµV 1	[dBµV 1	n [dB]	t
1	0.1860	10.77	28.55	39.32	64.21	24.89	20.68	31.45	54.21	22.76	PASS
2	0 4470	10.55	21.33	31.88	56.93	25.05	14.56	25.11	46.93	21.82	PASS
3	1 1220	10.66	27.55	38 21	56.00	17 79	19.06	29.72	46.00	16.28	PASS
4	1 0065	10.60	20.03	30.67	56.00	16.33	22.50	33.1/	46.00	12.86	PASS
5	6 2420	10.04	20.59	11 07	60.00	10.00	15.07	25.76	-+0.00 50.00	24.24	
5	0.2430	10.09	30.00	41.27	60.00	10.73	17.07	20.70	50.00	24.24	PASS
	9.3120	10.66	24.95	35.61	00.00	24.39	17.05	27.71	50.00	22.29	PASS
Rema	rk:										

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading + Factor(Lisn factor(dB) + cable loss(dB)).

3. Margin = Limit(dB $\mu$ V) – ValuedB $\mu$ V)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 10 of 28

Final T	est Mode:		Mode e			Phase:			Neutral		
	120			FC	C PART 15 B CLA	.SS B(ENV216_N	+ENV216_N)				
	110										
	100										
	90										
	80										
5	70     −     −										
									FCC PART 15	B CLASS B-QP Li	mit
	50-								FCC PART 15	B CLASS B-AV Li	mit
	40	Λ.Δ.Δ.	4	M y de M	Kangler .		A.L. M.				
	30	10000	Maryman	d'haller v	• <sup>3</sup> "\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	North Martin Martin				MAL.	
	20		•				◆ <sup>4</sup>			*** ** <b>*</b>	<b>j</b> ha
	10										
	0					-		+ + + + 1	0M		30M
					Fr	equency[Hz]					
	QP	Limit — A	AV Limit PH	< Comparison of the second sec							
	↓ cart										
Fina	al Data L	.ist									
	Frequenc	Facto	QP	QP	QP	QP	AV	AV	AV	AV	N ( ) !!
NO	у	r	Readin	Value [dBu]/	Limit [dBuV	Margi	Readin	Value [dBuV	Limit [dBuV	Margi	Verdic
	[MHz]	[dB]	[dBµV]		]	[dB]	[dBµV]	]		[dB]	Ľ
1	0.1545	10.72	31.31	42.03	65.75	23.72	23.49	34.21	55.75	21.54	PASS
2	0.4425	10.83	19.81	30.64	57.01	26.37	12.73	23.56	47.01	23.45	PASS
3	1.1130	10.71	28.70	39.41	56.00	16.59	20.91	31.62	46.00	14.38	PASS
4	3.6015	10.68	20.82	31.50	56.00	24.50	9.00	19.68	46.00	26.32	PASS
5	5.0325	10.64	28.87	39.51	60.00	20.49	22.75	33.39	50.00	16.61	PASS
6	5.8875	10.58	34.37	44.95	60.00	15.05	22.10	32.68	50.00	17.32	PASS
Remar	rk:						-				
1 The	following O	uasi-Pe	ak and Av	erade mi	easurem	ents wer	e nerform	ad on the			

2. Value =Reading + Factor(Lisn factor(dB) + cable loss(dB)).

3. Margin = Limit(dB $\mu$ V) – ValuedB $\mu$ V)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 11 of 28

Final	Fest Mode:		Mode h			Phase:	1		Line		
	120			FCC	PART 15 B CLAS	SS B(ENV216_L1	+ENV216_L1)				
	110-										
	100-										
	90-										
	80-										
	ξ <sup>70</sup>										
1	<u>ap</u> 0								FCC PART 15	B CLASS B-QP Li	mit
	<u>م</u> 50								FCC PART 15	B CLASS B-AV Li	mit
	40	MAN	M2	M all all offer	When		M. L. A. Mil				
	30 - •	VVVWW	w Manufr	A. Mildausia	· · · · · · · · · · · · · · · · · · ·	WHY PALLAN AND AND AND AND AND AND AND AND AND A	M. Contraction	• <sup>5</sup> • 6		M.	
	20-							Ť			<b>A</b>
	10-										
	0 – – – – – 150k		-+ + +	1M				1	і 0М	+	30M
					Fre	equency[Hz]					
	QP	Limit — A Detector 🔶	V Limit — Pk AV Detector	(							
Fina	al Data I	ist									
1 11 10			OP				Δ\/				
NO	Frequenc	Facto	Readin	QP Value	QP Limit	QP Margi	Readin	AV	AV Limit	AV Margi	Verdic
	y M⊔⇒1	r [dP]	g [dBu)/l	[dBµV	[dBµV	n	g [dBu)/l	[dBµV	[dBµV	n	t
	נועורובן	[ub]	[ασμν]	j	j	[dB]	[ [ασμν]	l l	j	[dB]	
1	0.1680	10.71	28.74	39.45	65.06	25.61	20.36	31.07	55.06	23.99	PASS
2	0.4560	10.56	21.96	32.52	56.77	24.25	15.33	25.89	46.77	20.88	PASS
3	1.1355	10.68	28.15	38.83	56.00	17.17	19.82	30.50	46.00	15.50	PASS
4	5.0415	10.64	26.98	37.62	60.00	22.38	20.64	31.28	50.00	18.72	PASS
5	6.2475	10.69	30.86	41.55	60.00	18.45	15.50	26.19	50.00	23.81	PASS
6	8.3310	10.68	20.84	31.52	60.00	28.48	11.96	22.64	50.00	27.36	PASS
Poma	rk	1			1		1	1			

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading + Factor(Lisn factor(dB) + cable loss(dB)).

3. Margin = Limit(dB $\mu$ V) - ValuedB $\mu$ V)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 12 of 28

Final Te	est Mode:		Mode h			Phase:			Neutral		
	100		•	FC	C PART 15 B CLA	SS B(ENV216 N·	+ENV216 N)				
	120-										
	110-										
	100-										
	90-										
	80-										
ABL/V	/0								FCC PART 15	B CLASS B-QP Li	mit
evel[	50								FCC PART 15	B CLASS B-AV Li	mit
_					Ma.		les d	S.			
		my	manu		3 3 NUMPERINAL AND A	معطيلين والمالية		No all the second se	An an and states	Au Au	
	20-		1 111		ALCONT.	Micalian , Juli Mic	·	<b>◆</b> <sup>®</sup>		W W	
	10-									<b>*</b>	
	0					_					
	150k			1M				1	0M		30M
		imit — 4	V Limit — Pl	c	Fr	equency[Hz]					
	♦ QP E	Detector	AV Detector	•							
Fina	l Data I	ist									
		.131					A\/	A) (	A) (	A) (	
NO	Frequenc	Facto	Readin	Value	QP Limit	QP Margi	Readin	Av Value	AV Limit	Av Margi	Verdic
	у [МН <del>7</del> ]	r [dB]	g	[dBµV	[dBµV	n	g	[dBµV	[dBµV	n	t
		[UD]	[dBµV]	]	]	[dB]	[dBµV]	]	]	[dB]	
1	0.1860	10.68	29.88	40.56	64.21	23.65	22.03	32.71	54.21	21.50	PASS
2	0.7305	10.81	24.52	35.33	56.00	20.67	12.39	23.20	46.00	22.80	PASS
3	1.1445	10.74	29.63	40.37	56.00	15.63	21.65	32.39	46.00	13.61	PASS
4	3.1695	10.61	24.88	35.49	56.00	20.51	18.81	29.42	46.00	16.58	PASS
5	4.9965	10.64	27.59	38.23	56.00	17.77	20.75	31.39	46.00	14.61	PASS
6	6.2430	10.57	30.60	41.17	60.00	18.83	15.81	26.38	50.00	23.62	PASS
0 0.2430 10.57 30.60 41.17 60.00 18.83 15.81 26.38 50.00 23.62 PASS											
Remark	ς.										

2. Value =Reading + Factor(Lisn factor(dB) + cable loss(dB)).

3. Margin = Limit(dB $\mu$ V) – ValuedB $\mu$ V)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 13 of 28

### 2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B								
Test Method:	ANSI C63.4:2014								
Frequency Range:	30MHz to 1GHz								
Measurement Distance:	3m								
	Frequency Range (MHz)	Limit(dBµV/m)	Detector						
	30MHz -88MHz	40.0	Quasi-peak						
Limit:	88MHz-216MHz	43.5	Quasi-peak						
	216MHz-960MHz	46.0	Quasi-peak						
	960MHz-1000MHz 54.0 Quasi-peak								
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz								

2.2.1 E.U.T. Operation

Temperature:	22~25°C					
Humidity:	44~60%RH					
Atmospheric Pressure:	101.0kPa					
	a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)-6+128G					
	b: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-6+128G					
	c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4-6+128G					
	d: Adaptor+USB+BT Idle+WLAN(5G)+Scan Code-6+128G					
Pretest these modes to	e: Adaptor+USB+BT IdIe+WLAN(2.4G) -6+128G					
find the worst case:	f: Transfer data between the EUT and the PC+USB cable-6+128G					
	g: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-4+128G					
	h: Transfer data between the EUT and the PC+USB cable-4+128G					
	i: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)-3+64G					
	j: Transfer data between the EUT and the PC+USB cable-3+64G					
The worst case for final	b: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-6+128G					
test:	h: Transfer data between the EUT and the PC+USB cable-4+128G					



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 14 of 28

### 2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below

2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

3. The table was rotated 360 degrees to determine the position of the highest radiation.

4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.

7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



#### 2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 15 of 28



Fina	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	35.82	54.33	10.93	-28.29	36.97	40.00	3.03	102	267	Horizontal		
2	38.73	53.02	11.74	-28.14	36.62	40.00	3.38	163	132	Horizontal		
3	42.125	52.03	12.53	-28.07	36.49	40.00	3.51	251	33	Horizontal		
4	52.795	45.26	13.13	-27.90	30.49	40.00	9.51	142	246	Horizontal		
5	100.81	38.62	10.79	-27.36	22.05	43.50	21.45	185	339	Horizontal		
6	195.87	39.68	10.15	-27.10	22.72	43.50	20.78	266	53	Horizontal		

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit – Level



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 16 of 28



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1	35.82	40.65	10.93	-28.29	23.29	40.00	16.71	163	93	Vertical		
2	44.065	42.13	12.91	-28.05	26.99	40.00	13.01	251	216	Vertical		
3	50.37	41.22	13.71	-28.00	26.94	40.00	13.06	142	269	Vertical		
4	79.47	43.42	7.09	-27.93	22.58	40.00	17.42	263	360	Vertical		
5	135.245	41.03	7.83	-27.14	21.72	43.50	21.78	265	319	Vertical		
6	193.6875	39.86	9.91	-27.16	22.61	43.50	20.89	241	175	Vertical		

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit – Level



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 17 of 28



Fina	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	41.155	51.26	12.33	-28.07	35.52	40.00	4.48	286	185	Horizontal		
2	53.0375	49.63	13.07	-27.89	34.81	40.00	5.19	241	354	Horizontal		
3	101.5375	39.65	10.78	-27.37	23.07	43.50	20.43	123	304	Horizontal		
4	135.9725	35.12	7.78	-27.14	15.76	43.50	27.74	241	142	Horizontal		
5	166.285	38.66	7.86	-26.58	19.95	43.50	23.55	102	108	Horizontal		
6	467.2275	34.68	16.21	-25.08	25.81	46.00	20.19	107	31	Horizontal		

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit – Level



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 18 of 28



Fina	Final Data List											
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1	35.0925	36.56	10.73	-28.33	18.96	40.00	21.04	102	279	Vertical		
2	44.065	34.52	12.91	-28.05	19.38	40.00	20.62	142	246	Vertical		
3	53.28	45.62	13.01	-27.89	30.75	40.00	9.25	152	338	Vertical		
4	135.4875	35.68	7.82	-27.14	16.35	43.50	27.15	263	359	Vertical		
5	332.3975	38.52	14.07	-25.79	26.80	46.00	19.20	251	70	Vertical		
6	419.455	35.85	16.09	-25.41	26.52	46.00	19.48	107	149	Vertical		

### Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Level = Reading Level + AF + Factor:
  - AF = Antenna Factor(dB/m)
  - Factor = Cable Factor(dB) Preamplifier (dB)
  - Margin = Limit Level



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 19 of 28

### 2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpa	47 CFR Part 15, Subpart B						
Test Method:	ANSI C63.4:2014							
Frequency Range:	Above 1GHz							
Measurement Distance:	3m	3m						
	Frequency (MHz)	Limit (dBµV/m)	Detector					
Limit:		74	Peak					
	Above 1GHz 54 Average							
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.							

### 2.3.1 E.U.T. Operation

Temperature:	22~25°C
Humidity:	44~60%RH
Atmospheric Pressure:	101.0kPa
	a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)-6+128G
	b: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-6+128G
	c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4-6+128G
	d: Adaptor+USB+BT Idle+WLAN(5G)+Scan Code-6+128G
Pretest these modes to	e: Adaptor+USB+BT IdIe+WLAN(2.4G) -6+128G
find the worst case:	f: Transfer data between the EUT and the PC+USB cable-6+128G
	g: Adaptor+USB+BT IdIe+WLAN(5G)+Camera(Front)-4+128G
	h: Transfer data between the EUT and the PC+USB cable-4+128G
	i: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)-3+64G
	j: Transfer data between the EUT and the PC+USB cable-3+64G
The worst case for final	a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)-6+128G
test:	h: Transfer data between the EUT and the PC+USB cable-4+128G



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 20 of 28

### 2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below

2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

3. The table was rotated 360 degrees to determine the position of the highest radiation

(Distance from antenna to EUT is 1m for measurements >18GHz).

4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.

7. At a measurement distance of 1 meter the limit line was increased by 20\*LOG(3/1) = 9.54 dB.



### 2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz 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.



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 21 of 28



AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBµV/m) - Level(dBµV/m)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 22 of 28



NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1496.4	56.64	25.50	33.64	-48.50	74.00	40.36	234	360	Vertical
2	4847.95	51.98	32.24	39.35	-44.87	74.00	34.65	152	266	Vertical
3	13638.65	46.69	39.98	52.09	-34.58	74.00	21.91	258	266	Vertical
4	1368.9	47.74	25.46	24.45	-48.75	54.00	29.55	169	134	Vertical
5	5450.6	43.16	32.60	31.94	-43.82	54.00	22.06	173	226	Vertical
6	13624.2	36.02	39.97	41.49	-34.51	54.00	12.51	119	304	Vertical

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBµV/m) - Level(dBµV/m)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 23 of 28



NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1057.8	56.56	25.44	33.89	-48.12	74.00	40.11	197	116	Horizontal
2	3198.1	54.16	29.52	37.41	-46.28	74.00	36.59	219	284	Horizontal
3	11343.65	44.76	39.26	48.97	-35.05	74.00	25.03	228	265	Horizontal
4	1021.25	46.90	25.35	24.61	-47.64	54.00	29.39	259	229	Horizontal
5	4462.05	41.76	31.34	28.31	-44.79	54.00	25.69	237	98	Horizontal
6	13650.55	35.61	39.99	40.96	-34.64	54.00	13.04	246	98	Horizontal

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBµV/m) - Level(dBµV/m)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 24 of 28



NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1136.85	56.79	25.64	33.65	-48.78	74.00	40.35	214	96	Vertical
2	4777.4	51.64	32.07	39.11	-44.60	74.00	34.89	251	4	Vertical
3	13642.05	45.10	39.99	50.49	-34.60	74.00	23.51	237	115	Vertical
4	1868.7	46.56	25.98	24.36	-48.19	54.00	29.64	100	227	Vertical
5	6548.8	42.58	35.30	34.85	-43.03	54.00	19.15	241	135	Vertical
6	13627.6	35.35	39.98	40.80	-34.52	54.00	13.20	287	208	Vertical

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBµV/m) - Level(dBµV/m)



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 25 of 28

## 3 Equipment List

CE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18			
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR			



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 26 of 28

RE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13			
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13			
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18			
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09			
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR			



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 27 of 28

## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty						
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)						
		± 4.8dB (Below 1GHz)						
2	Radiated Emission	± 4.8dB (1GHz to 18GHz)						
		± 4.8dB (Above 18GHz)						
Remark: The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.								



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 Report No.:
 SEWM2207000111RG05

 Rev.:
 01

 Page:
 28 of 28

## 5 Photographs

## 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

- End of the Report -



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