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TEST REPORT

Test Result :	PASS *
Date of Issue:	2023/07/28
Date of Test:	2023/07/05 to 2023/07/23
Date of Receipt:	2023/06/05
Standards:	FCC 47 CFR Part 15, Subpart C 15.255
FCC ID:	2ACYESK-MH60TG-A8
Trade Mark:	Siklu
Model No.:	MH-T261-CNN-N-MWB
EUT Description:	Terminal unit of point-to-multipoint high BW system operating in 57-66GHz
Address of Manufacturer:	43 Hasivim St. Petach-Tikva 4959501, Israel
Manufacturer:	Siklu Communication Ltd.
Address of Applicant:	43 Hasivim St. Petach-Tikva 4959501, Israel
Applicant:	Siklu Communication Ltd.
Application No.:	SEWM2307000279RG

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

лен

Well Wei Wireless Laboratory Manager



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1 Version

Revision Record								
Version	Chapter	Date	Modifier	Remark				
01		2023/07/28		Original				

Prepared By	(King-p Li) / Test Engineer
Checked By	Stone Gu) / Reviewer



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2 Test Summary

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Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2013 Section 6.2	Clause 4.2	PASS
Transmitter power and power spectral density	15.255 (c)(1)(ii)&(e)	ANSI C63.10-2013 Section 9.5/9.6	Clause 4.3	PASS
Occupied bandwidth	15.215 (c), 15.255 (e2)	ANSI C63.10-2013 Section 9.3	Clause 4.4	PASS
Radiated spurious emissions below 40 GHz	15.255 (d)(2)	ANSI C63.10-2013 Section 9.13	Clause 4.5	PASS
Radiated emissions outside assigned band and above 40 GHz up to 200 GHz	15.255 (d)(3)	ANSI C63.10-2013 Section 9.9/9.12	Clause 4.6	PASS
Frequency stability	15.255 (f)	ANSI C63.10-2013 Section 9.14	Clause 4.7	PASS



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3 General Information

3.1 Details of Client

Applicant:	Siklu Communication Ltd.			
Address of Applicant:	43 Hasivim St. Petach-Tikva 4959501, Israel			
Manufacturer:	Siklu Communication Ltd.			
Address of Manufacturer:	43 Hasivim St. Petach-Tikva 4959501, Israel			

3.2 Test Location

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

3.3 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



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3.4 General Description of EUT

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EUT Description:	Terminal un 66GHz	Terminal unit of point-to-multipoint high BW system operating in 57- 66GHz						
Model No.:	MH-T261-C	MH-T261-CNN-N-MWB						
Trade Mark:	Si	Siklu						
Software Version:	2.1.2							
Power Supply:	42-57VDC,0).31A Max						
SN:	AD2610000	7						
Frequency Range:	58320MHz-	64800MHz						
	Channel Number	Center Frequency(MHz)	Channel Number	Center Frequency(MHz)				
Operation Frequency:	0	58320	2	62640				
	1	60480	3	64800				
Modulation Technique:	BPSK, QPS	K, 16QAM						
Wireless network protocol:	802.11ay							
Crystal:	38.4MHz							
Antenna Type:	PCB Antenr	าล						
	22.5dBi	22.5dBi						
Antenna Gain:		Note: The antenna gain are derived from the gain information report provided by the manufacturer.						

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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46 %	RH Ambient			
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23	120			
LTNV	-20	120			
HTNV	50	120			
Remark:					
NV: Normal Voltage	NT: Normal Temperature				
HT: High Extreme Test Temperature	LT: Low Extreme Test Temperat	ure			

3.6 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Computer	Lenovo	T14	SUWI-03-33-04
POE Adapter	SHENZHEN GOSPELL DIGITAL TECHNOLOGY CO., LTD.	G0720-480-050	1



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

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.

The antenna is PCB Antenna and no consideration of replacement. The best case gain of the antenna is 22.5dBi.

Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 AC Power Line Conducted Emissions

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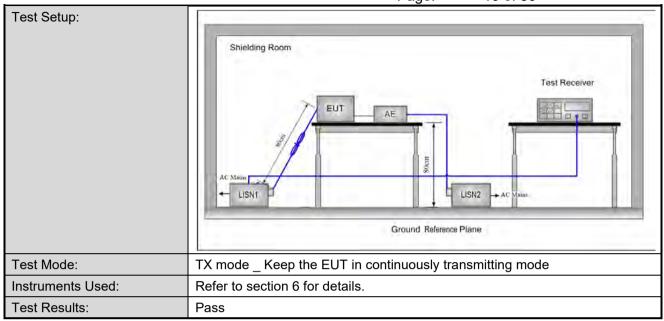
Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10-2013 Section 6.2						
Test Frequency Range:	150kHz to 30MHz						
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz					
Limit:	Erequency renge (MHz)	Limit (d	BuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the log	arithm of the frequency.					
Test Procedure:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same way multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plat placed on the horizon 4) The test was performed the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and b mounted on top of th the closest points of and associated equip 5) In order to find the m and all of the interfate 	sturbance voltage test was contend to AC power source throw ion Network) which provides are cables of all other units of and LISN 2, which was bonded and as the LISN 1 for the unit b is strip was used to connect multiple the rating of the LISN was not splaced upon a non-metallic ne. And for floor-standing arra- ntal ground reference plane. With a vertical ground reference and the vertical ground reference and the vertical ground reference and the vertical ground reference and to a ground reference plane. The LISN 1 was placed 0.8 m fro- onded to a ground reference a ground reference plane. The the LISN 1 and the EUT. All co- oment was at least 0.8 m from aximum emission, the relative ce cables must be changed a iducted measurement.	igh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a bt exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of ference plane. The e horizontal ground m the boundary of the plane for LISNs is distance was between other units of the EUT o the LISN 2. e positions of equipment				



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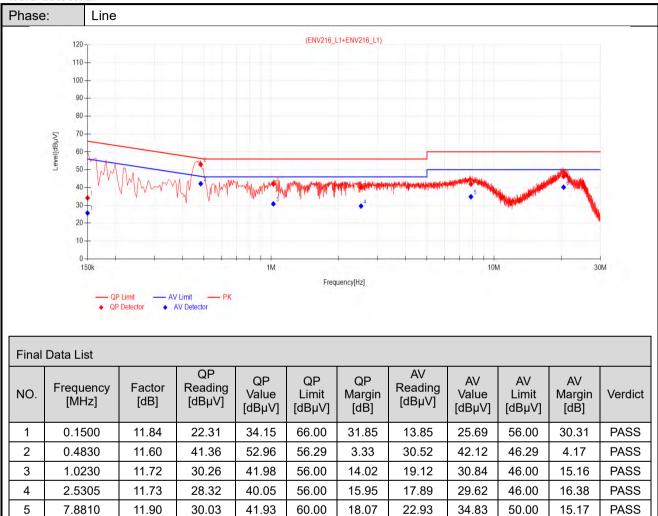
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Measurement Data

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.



6 Remark:

20.5305

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

46.18

60.00

13.82

28.17

40.16

50.00

9.84

PASS

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

34.19

3. Margin = Limit[dBµV] – Value[dBµV]

11.99



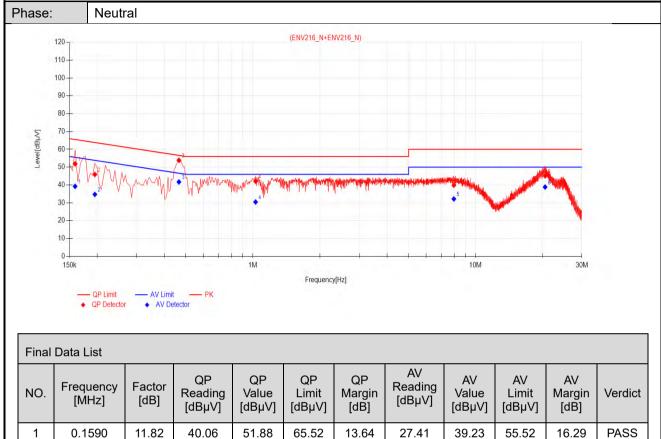
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1	0.1590	11.82	40.06	51.88	65.52	13.64	27.41	39.23	55.52	16.29	PASS
2	0.1950	11.67	34.24	45.91	63.82	17.91	23.06	34.73	53.82	19.09	PASS
3	0.465	11.60	42.26	53.86	56.60	2.74	30.12	41.72	46.60	4.88	PASS
4	1.0275	11.73	30.36	42.09	56.00	13.91	18.73	30.46	46.00	15.54	PASS
5	7.9845	11.89	28.00	39.89	60.00	20.11	20.30	32.19	50.00	17.81	PASS
6	20.5170	11.99	33.11	45.10	60.00	14.90	26.86	38.85	50.00	11.15	PASS

Remark:

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

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

3. Margin = Limit[dBµV] – Value[dBµV]



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4.3 Transmitter power and power spectral density

S

Test Requirement:	47 CFR Part 15C Section 15.255 (c)(1)(i)&(e)					
Test Method:	ANSI C63.10-2013 Section 9.5, 9.6					
Test Setup:	Antaruna + Misar Spectrum Analyzer (Turntable) h=1.5m, d=0.5m					
Test Instruments:	Refer to section 6 for details					
Test Procedure:	 Place the EUT on the table and set it in the transmitting mode. Set The SA to Channel Power Function and SA set RBW=1MHz , VBW=3*RBW , Span=5GHz, Detector=Peak /Average Trace: Mask Hold. The EUT was turned from 0 degrees to 360 degrees to find the maximum reading. 					
Test Mode:	TX mode _ Keep the EUT in continuously transmitting mode					
Limit:	The average power of any emission shall not exceed 40 dBm and the peak power of any emission shall not exceed 43 dBm The peak transmitter conducted output power of devices other than field disturbance sensors/radars shall not exceed 500 mW.(27dbm)					
Test Results:	Pass					
The detailed test data see: A	ppendix					



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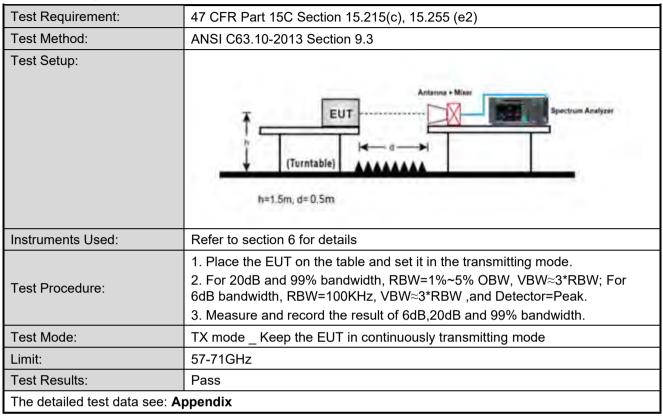
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4.4 Occupied Bandwidth





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4.5 Radiated spurious emissions below 40 GHz

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Test Requirement:	47 CFR Part 15C Section 15.225 (d)(2)								
Test Method:	ANSI C63.10-2013 Section 9.13								
Limit:	Below 30MHz:								
	Frequency		Field Stren	gth (µV/m)		Aeasurement stance (metres)			
	9 - 490 kHz		2,400/F (kHz)			300			
	490 - 1,705 kH	łz	24,000/	F (kHz)		30			
	1.705-30 MH	z	3	0		30			
	Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.								
	Above 30MHz:								
	Frequency (MF	łz)	Field Strength (µV/m)			Aeasurement stance (metres)			
	30-88		10)**		3			
	88-216		15	0**		3			
	216-960		20	0**		3			
	Above 960		50	00		3			
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.								
					15/	N//)4			
	Frequency (MHz)			trength at 3 r ithin restricte	•	,			
	(Peak	Quasi Pe	ak	Average			
	0.009 - 0.090	148	.5 - 128.5	NA		128.5 - 108.5**			
	0.090 - 0.110		NA	108.5 - 106	5.8**	NA			
	0.110 - 0.490	126	.8 - 113.8	NA		106.8 - 93.8**			
	0.490 - 1.705			73.8 - 63.	0**				
	1.705 - 30.0*		NA	69.5		NA			
	30 - 88			40.0		-			
	88 - 216			43.5					



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Report No.: SEWM2307000279RG01 Rev.: 01 Page: 16 of 50 216 - 960 46.0 Above 960 54.0 1000 - 200000 74.0 N/A 54.0 *- The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows: $LimS2 = LimS1 + 20 \log (S1/S2),$ where S1 and S2 - standard defined and test distance respectively in meters. **- The limit decreases linearly with the logarithm of frequency. Note: The above field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency but not exceeding 40 GHz for intentional radiators operated below 10 GHz and up to the fifth harmonic of the highest fundamental frequency but not exceeding 200 GHz for intentional radiators operated above 30 GHz. Field strength at 1 m, dB(uV/m)* Frequency Within restricted bands (MHz) Quasi Peak Peak Average 1000 - 200000 83.5 N/A 63.5 Test Setup: 1GHz ~18 GHz Test Setup Below 1GHz Test Setup (Antenna Tower) (Antenna Tower) EUT (Turntable Centre) (Turntable Centre) Snectru 18GHz ~ 40GHz Test Setup Antenna Tower (Turntable Centre) Instruments Used: Refer to section 6 for details a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 Test Procedure: meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest



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	radiation. b. For 1-18GHz, the EUT was meters above the ground at a was rotated 360 degrees to de radiation. c. For 18-40GHz, the EUT was meters above the ground at a was rotated 360 degrees to de	placed on the 3 meter fully-a termine the po s placed on the 1 meter fully-a	nechoic chamber. The table osition of the highest e top of a rotating table 1.5 nechoic chamber. The table
	radiation. d. The antenna height is varied ground to determine the maxin horizontal and vertical polariza measurement.	num value of tl	he field strength. Both
	e. For each suspected emission and then the antenna was t turn of below 30MHz, the antenna rotatable table was turned from maximum reading.	ned to the sam was tuned to h	e hight (for the test frequency eights 1 meter) and the
	f. The test-receiver system wa Bandwidth with Maximum Hold g. If the emission level of the E limit specified, then testing cou EUT would be reported. Other margin would be re-tested one	l Mode. EUT in peak mo Ild be stopped wise the emiss	ode was 10dB lower than the and the peak values of the sions that did not have 10dB
	method as specified and then h. The radiation measurement for Transmitting mode, and fou worst case.	reported in a d s are performe	ata sheet. d in X, Y, Z axis positioning
	i. Repeat above procedures ur Remark 1: Level= Read Level- Factor		-
	Remark 2: For frequencies about the based on average limits. Howe shall not exceed the maximum by more than 20 dB under any whose peak level is lower than measurement is shown in the show	ever, the peak permitted ave condition of m the average li	field strength of any emission erage limits specified above nodulation. For the emissions
	Remark 3: Scan from 9kHz to very low. The points marked o could be found when testing, s The amplitude of spurious emi attenuated more than 20dB be	40GHz, the dis n above plots a o only above p ssions from the	are the highest emissions points had been displayed. e radiator which are
Final Test Mode:	TX mode _ Keep the EUT in c	ontinuously tra	nsmitting mode
Test Results:	Pass		
The detailed test data see: Apper	ndix		



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4.6 Radiated emissions outside assigned band and above 40 GHz up to 200 GHz

	47 CFR Part 15	C Section 15.22	5 (d)(3)							
Test Method:	ANSI C63.10-20	ANSI C63.10-2013 Section 9.9,9.12								
Limit:	Above 40GHz:									
	Frequency (GHz)	Power density at 3 m distance (pW/cm2)	Distance (m)	Field strength (dBuV/m)*, peak	Field strength (dBuV/m)*, average					
	40 - 200	90	3.0	105.31	85.31					
	40 - 200	90	0.5	120.87**	100.87**					
Test Setup:	LimS2 = LimS	Antenna Antenna Antenna Antenna	eters.	Spectrum Analyzer	defined and					
	had Em. da 0 Em.									
	h=1.5m, d=0.5m									
Instruments Used:	Refer to section	6 for details GHz, the EUT w								



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	e. 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.							
	f. 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 cas							
	g. Repeat above procedures until all frequencies measured was complete.							
	Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor							
	Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.							
Final Test Mode:	TX mode _ Keep the EUT in continuously transmitting mode							
Test Results:	Pass							
The detailed test data see: Appendix								



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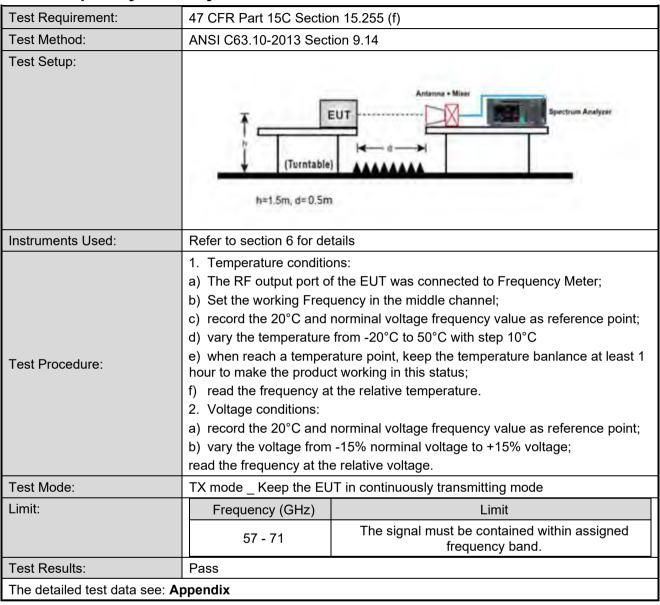
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4.7 Frequency Stability





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

No.	Item	Measurement Uncertainty				
1	Total RF power	±0.54dB				
2	Occupied Bandwidth	±1.0 %				
3	Radio Frequency	±1.0 %				
4	Conduction Emission	± 2.90dB (150kHz to 30MHz)				
		± 3.13dB (9k -30MHz)				
5		± 4.80dB (30M -1GHz)				
5	Radiated Emission	± 4.80dB (1GHz to 18GHz)				
		± 4.80dB (Above 18GHz)				

Remark:

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The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (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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6 Equipment List

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9*6*6 Test Equipment										
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	2023/02/07	2024/02/06					
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02- 04	2023/05/11	2024/05/10					
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02- 05	2022/11/23	2023/11/22					
PXA Spectrum Analyzer	KEYSIGHT	N9030B	SUWI-01-62- 01	2023/01/29	2024/01/28					
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10- 01	2023/02/08	2024/02/07					
DC Power Supply	HYELEC	HY3005B	SUWI-01-18- 01	2023/02/06	2024/02/05					
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11- 01	2023/05/13	2024/05/12					
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11- 02	2023/05/13	2024/05/12					
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11- 03	2023/05/12	2024/05/11					
Active Loop Antenna	SCHWEZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21- 01	2023/05/13	2024/05/12					
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14- 01	2023/02/06	2024/02/05					
Amplifier	Tonscend	TAP01018050	SUWI-01-14- 02	2023/02/06	2024/02/05					
Amplifier	Tonscend	TAP18040048	SUWI-01-14- 03	2023/02/08	2024/02/07					
Measurement Software	Tonscend	JS32-RE	SUWI-02-09- 04	NCR	NCR					
Horn-antenna(40-		V4.0.0.0 SAZ-2410-19-	SUWI-03-49-							
60GHz)	REBES	S1	01	NCR	NCR					
Horn-antenna(50- 75GHz)	REBES	SAZ-2410-15- S1	SUWI-03-49- 02	NCR	NCR					
Horn-antenna(75- 110GHz)	REBES	SAZ-2410-10- S1	SUWI-03-49- 03	NCR	NCR					
Horn-antenna(110- 170GHz)	REBES	SAZ-2410-06- S1	SUWI-03-49- 04	NCR	NCR					
Horn-antenna(140- 220GHz)	REBES	SAZ-2410-05- S1	SUWI-03-49- 05	NCR	NCR					
Horn-antenna(220- 325GHz)	REBES	SAR-2309-03- S2	SUWI-03-49- 06	NCR	NCR					
Extended waveguide(40-60GHz)	REBES	SWG-19025-FB	SUWI-03-50- 01	NCR	NCR					



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Extended waveguide(50-75GHz)	REBES	SWG-15025-FB	SUWI-03-50- 02	NCR	NCR
Extended waveguide(75- 110GHz)	REBES	SWG-10025-FB	SUWI-03-50- 03	NCR	NCR
Extended waveguide(110- 170GHz)	REBES	SWG-06025-FB	SUWI-03-51- 01	NCR	NCR
Extended waveguide(140- 220GHz)	REBES	SWG-05025-FB	SUWI-03-51- 02	NCR	NCR
Extended waveguide(220- 325GHz)	REBES	SWG-03025-FB	SUWI-03-51- 03	NCR	NCR
Harmonic mixer(110- 170GHz)	REBES	STH-06SF-S1	SUWI-03-52- 01	NCR	NCR
Harmonic mixer(40- 60GHz)	REBES	STH-19SF-S1	SUWI-03-52- 02	NCR	NCR
Harmonic mixer(140- 220GHz)	REBES	STH-06SF-S1	SUWI-03-52- 03	NCR	NCR
Harmonic mixer(220- 325GHz)	REBES	STH-19SF-S1	SUWI-03-52- 04	NCR	NCR
Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	SUWI-03-53- 01	NCR	NCR
Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	SUWI-03-53- 02	NCR	NCR
Waveguide Harmonic Mixer(50-75GHz) cable	Silverline	SLU18-SMSM- 01.00M	SUWI-03-54- 01	NCR	NCR
Waveguide Harmonic Mixer(75-110GHz) cable	Silverline	SLU18-SMSM- 01.00M	SUWI-03-54- 02	NCR	NCR
Waveguide Harmonic Mixer(40-60GHz) cable	Silverline	SLU18-SMSM- 01.00M	SUWI-03-54- 03	NCR	NCR
Waveguide Harmonic Mixer(110-170GHz) cable	Silverline	SLU18-SMSM- 01.00M	SUWI-03-54- 04	NCR	NCR
Waveguide Harmonic Mixer(140-220GHz) cable	Silverline	SLU18-SMSM- 01.00M	SUWI-03-54- 05	NCR	NCR
Waveguide Harmonic Mixer(220-325GHz) cable	Silverline	SLU18-SMSM- 01.00M	SUWI-03-54- 06	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.1 FCC Setup Photos.



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Appendix



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Transmitter power and power spectral density Test Result

Channel (GHz)	Dista nce (cm)	Polarity	dBuV/m @ 0.5m	E.I.R.P. Power (dBm)	E.I.R.P Limit (dBm)	Gain (dBi)	Cond ucted Power (dBm)	Limi t (dB m)	Res ult	Remark
		Horizontal	149.6	38.84	43	22.5	16.34	27	Pass	peak
		Vertical	149.3	38.54	43	22.5	16.04	27	Pass	peak
58.32	50	Horizontal	144.6	33.84	40	22.5	/	/	Pass	Average
		Vertical	144.8	34.04	40	22.5	1	1	Pass	Average
	50	Horizontal	149.2	38.44	43	22.5	15.94	27	Pass	peak
		Vertical	148.5	37.74	43	22.5	15.24	27	Pass	peak
60.48		Horizontal	142.0	31.24	40	22.5	/	/	Pass	Average
		Vertical	142.1	31.34	40	22.5	/	/	Pass	Average
		Horizontal	149.3	38.54	43	22.5	16.04	27	Pass	peak
		Vertical	149.3	38.54	43	22.5	16.04	27	Pass	peak
62.64	50	Horizontal	143.5	32.74	40	22.5	/	/	Pass	Average
		Vertical	143.3	32.54	40	22.5	/	/	Pass	Average
		Horizontal	149.4	38.64	43	22.5	16.14	27	Pass	peak
		Vertical	148.5	37.74	43	22.5	15.24	27	Pass	peak
64.80	50	Horizontal	142.6	31.84	40	22.5	/	1	Pass	Average
		Vertical	142.8	32.04	40	22.5	/	/	Pass	Average

Remark:

S

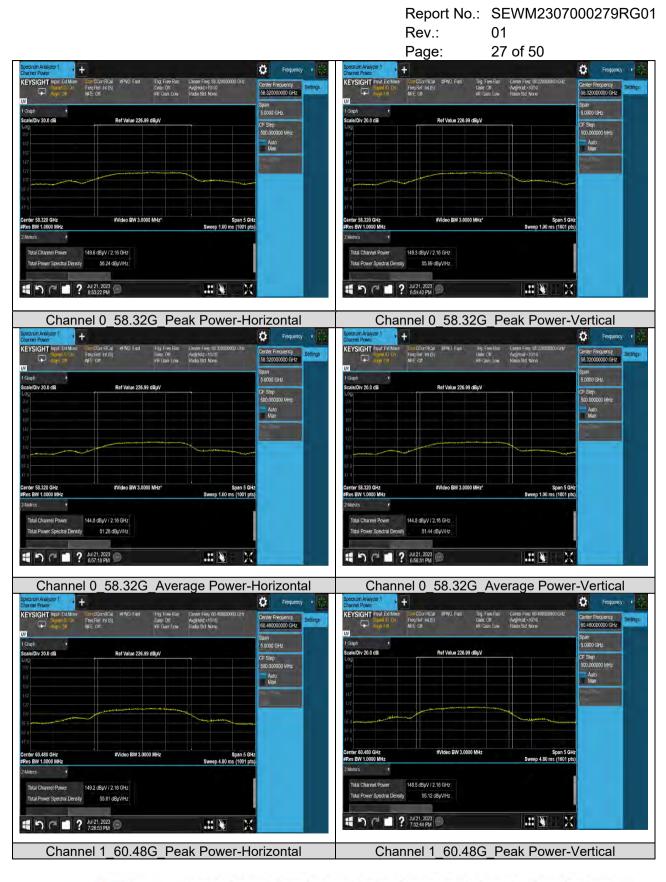
 $E[dB\mu V/m] = EIRP [dBm] - 20 log(d[meters]) + 104.77$, where E = field strength and d = distance at which field strength limit is specified in the rules

EIRP [dBm] = E[dBµV/m] + 20 log(d[meters]) - 104.77



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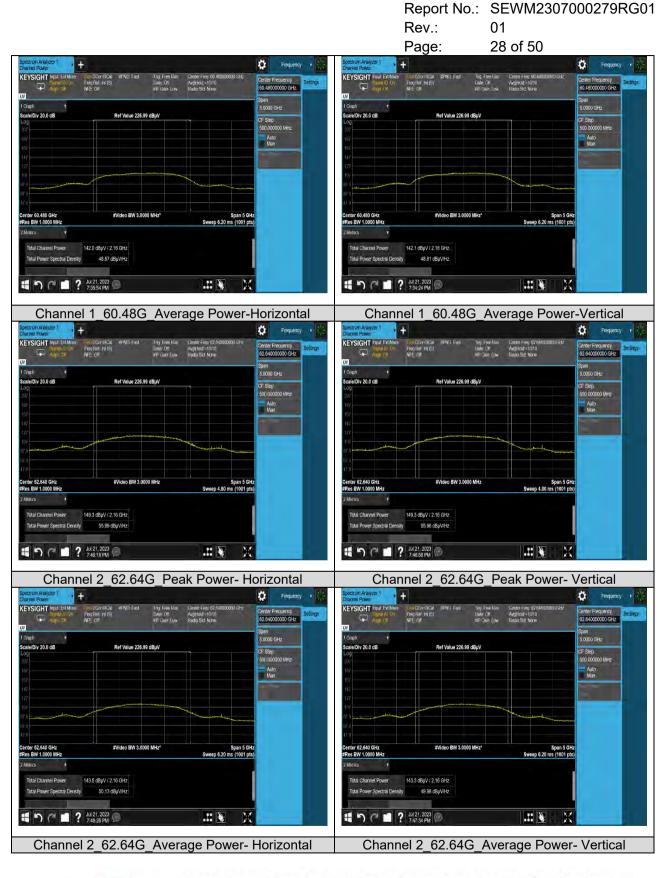
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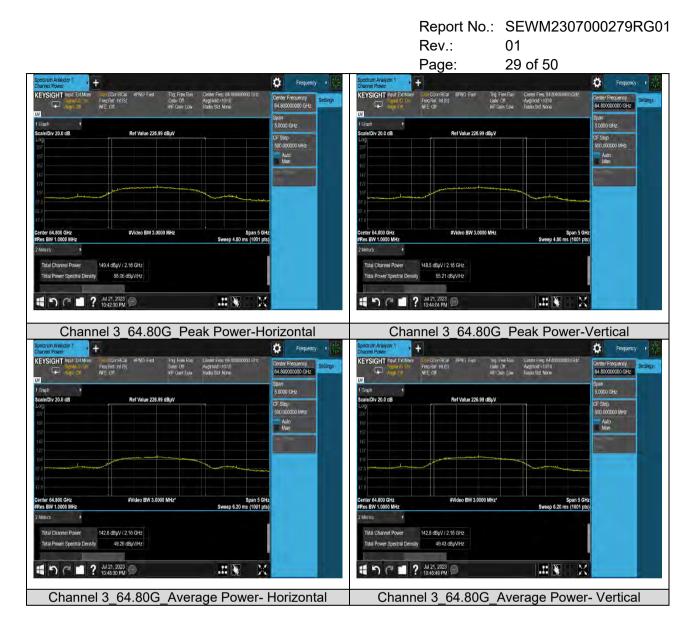
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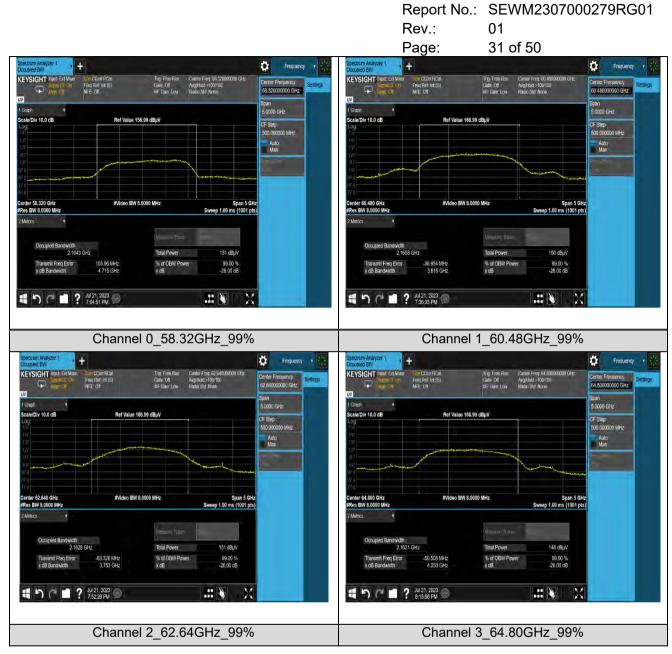
Occupied bandwidth Test Result

Channel (GHz)	99% OCW (MHz)	-20dB OCW (MHz)	-6dB OCW (MHz)	
58.32	2164.3	2400	1765	
60.48	2165.8	2290	1655	
62.64	2162.8	2240	1690	
64.80	2162.1	2325	1610	



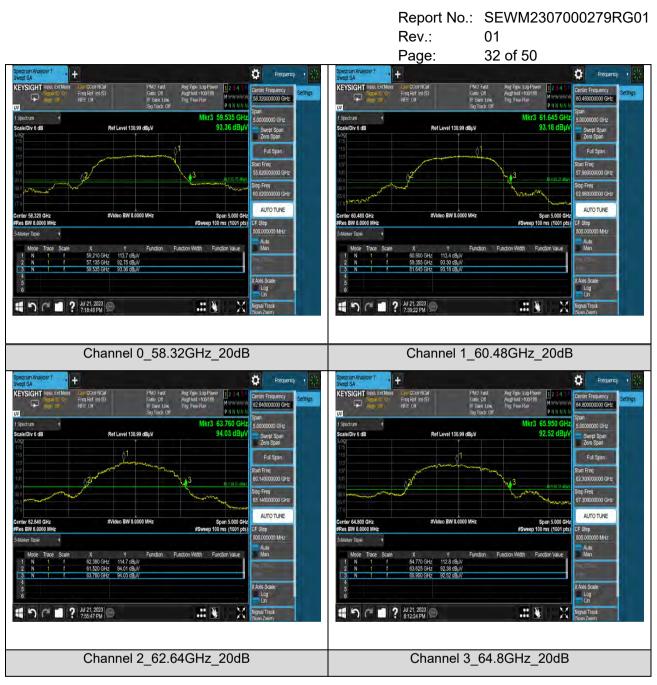
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Remark: Because the 1% -5% OBW is much larger than the maximum RBW of the spectrum analyzer, the maximum RBW of the spectrum analyzer is tested at 8MHz





Remark: Because the 1% -5% OBW is much larger than the maximum RBW of the spectrum analyzer, the maximum RBW of the spectrum analyzer is tested at 8MHz



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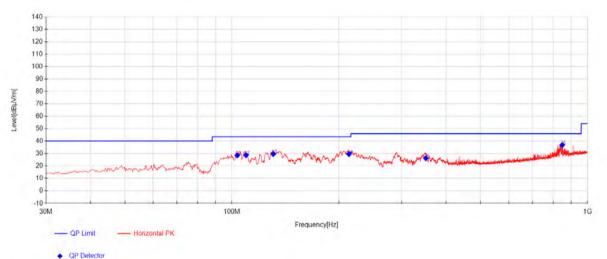
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Radiated spurious emissions below 40 GHz Test Result

Below 1GHz-Horizontal



Final	Final Data List										
NO.	Frequenc y [MHz]	Readin g [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	103.4775	46.22	15.81	-33.45	28.58	43.50	14.92	142	123	Horizontal	
2	109.54	45.83	16.36	-33.39	28.79	43.50	14.71	159	123	Horizontal	
3	130.6375	45.02	17.99	-33.29	29.72	43.50	13.78	185	267	Horizontal	
4	213.33	46.29	15.93	-32.61	29.62	43.50	13.88	172	360	Horizontal	
5	350.8275	38.19	19.92	-31.85	26.26	46.00	19.74	136	228	Horizontal	
6	848.4375	37.33	29.18	-29.61	36.90	46.00	9.10	255	22	Horizontal	



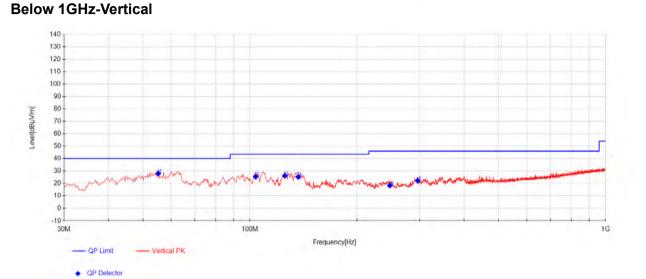
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Final Data List										
NO.	Frequenc y [MHz]	Readin g [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	55.22	43.02	18.99	-33.92	28.09	40.00	11.91	148	225	Vertical
2	103.72	43.19	15.83	-33.45	25.58	43.50	17.92	128	32	Vertical
3	125.3025	41.85	17.64	-33.31	26.18	43.50	17.32	177	360	Vertical
4	136.7	40.22	18.39	-33.26	25.35	43.50	18.15	186	71	Vertical
5	247.28	33.59	17.23	-32.47	18.35	46.00	27.65	196	359	Vertical
6	296.265	36.03	18.39	-32.19	22.22	46.00	23.78	152	225	Vertical



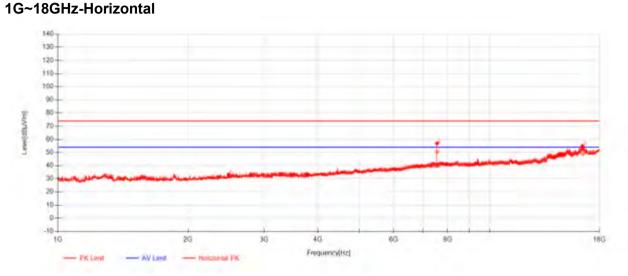
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.5	53.62	27.26	-47.57	33.30	74.00	40.70	142	37	Horizontal
2	7561	63.76	36.62	-43.48	56.90	74.00	17.10	306	343	Horizontal
3	16426.5	49.55	40.52	-35.26	54.82	74.00	19.18	224	360	Horizontal
NO.	Frequency [MHz]	AV Reading [dBµV]	AF [dB/m]	Factor [dB]	AV Level [dBµV/m]	Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
2	7561	57.21	36.62	-43.48	50.35	54.00	3.65	306	343	Horizontal
3	16426.5	47.38	40.52	-35.26	52.64	54.00	1.36	224	360	Horizontal



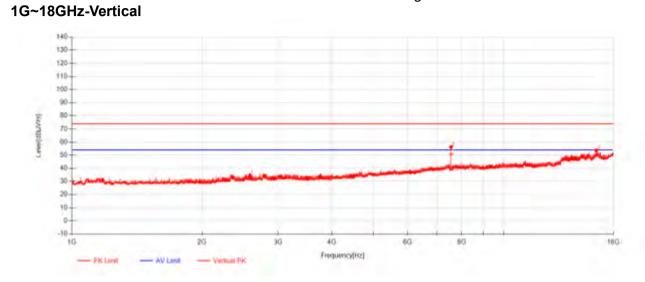
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Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2583.5	54.55	27.47	-47.34	34.67	74.00	39.33	152	0	Vertical	
2	7561	63.02	36.62	-43.48	56.16	74.00	17.84	142	11	Vertical	
3	16404.5	48.70	40.45	-35.45	53.70	74.00	20.30	226	356	Vertical	
NO.	Frequency [MHz]	AV Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Level [dBµV/m]	Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	
2	7561	57.55	36.62	-43.48	50.69	54.00	3.31	142	11	Vertical	



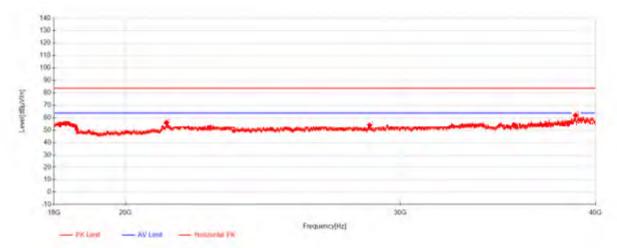
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	21245.55	54.03	37.80	-35.99	55.83	83.50	27.67	109	240	Horizontal
2	28656.25	50.75	39.43	-36.55	53.62	83.50	29.88	198	50	Horizontal
3	38840.6	51.12	43.14	-32.48	61.78	83.50	21.72	240	200	Horizontal

18G~40GHz-Horizontal

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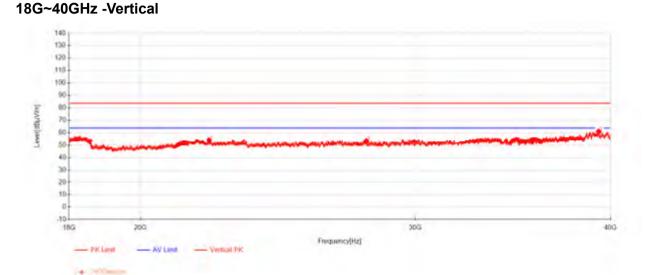
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	22126.65	52.27	37.85	-36.17	53.95	83.50	29.55	109	250	Vertical
2	27898.9	49.69	39.00	-35.48	53.21	83.50	30.29	256	100	Vertical
3	39307.55	50.34	43.05	-32.38	61.00	83.50	22.50	269	70	Vertical

Remark:All channels have test and only the worst data showed in the report.



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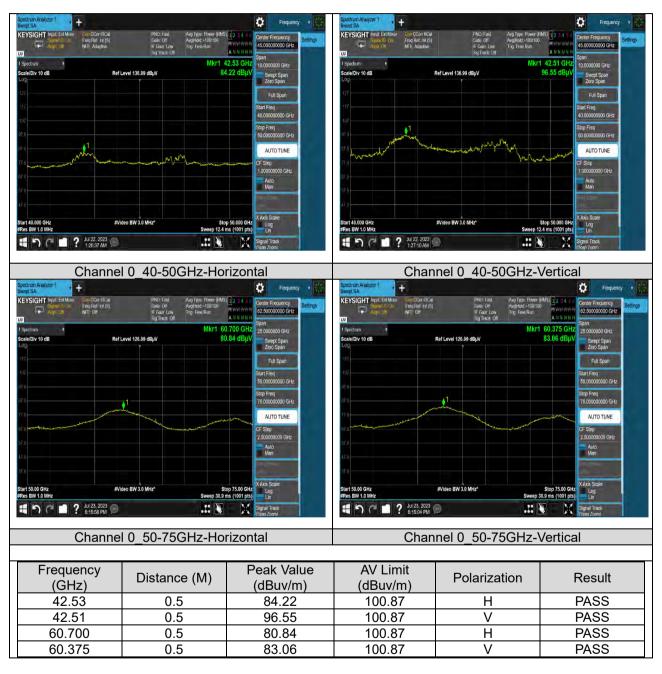
 Report No.:
 SEWM2307000279RG01

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Radiated emissions outside assigned band and above 40 GHz up to 200 GHz

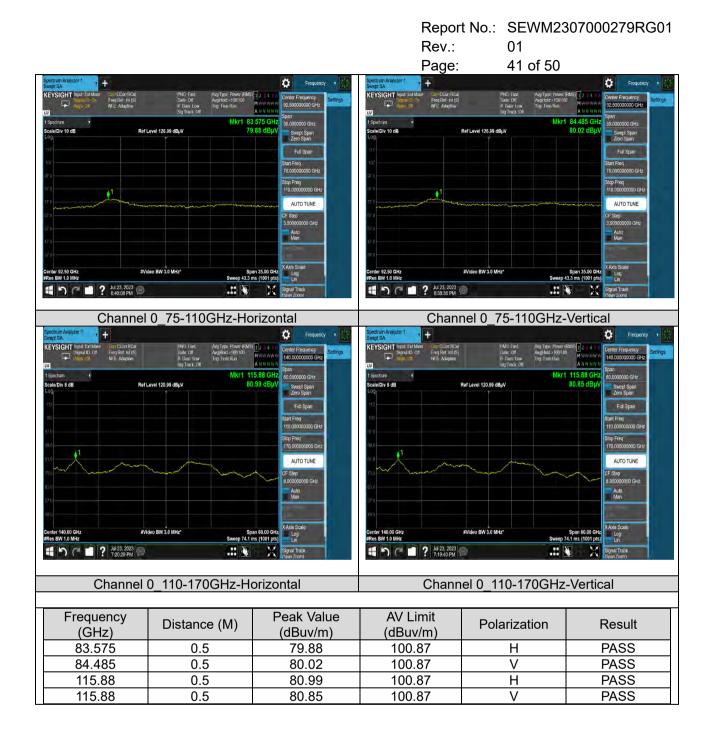
Test Result





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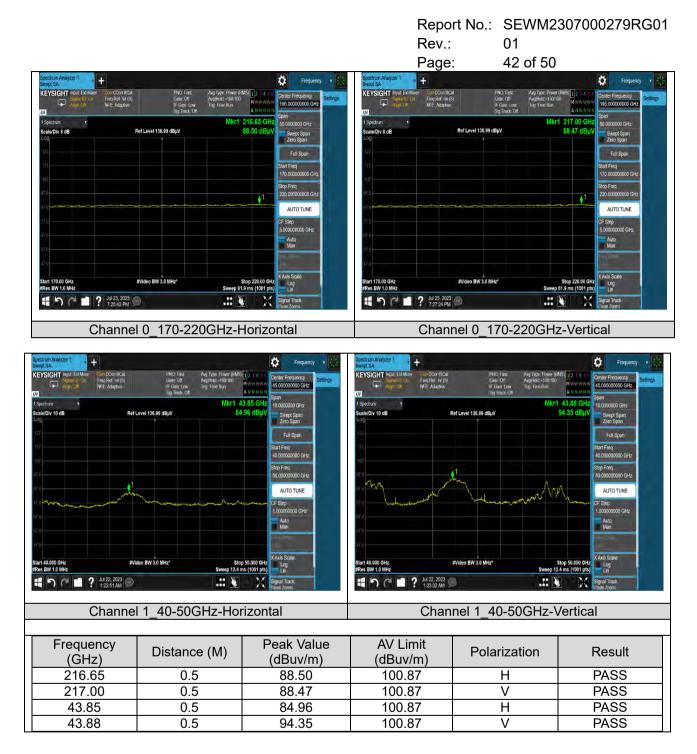
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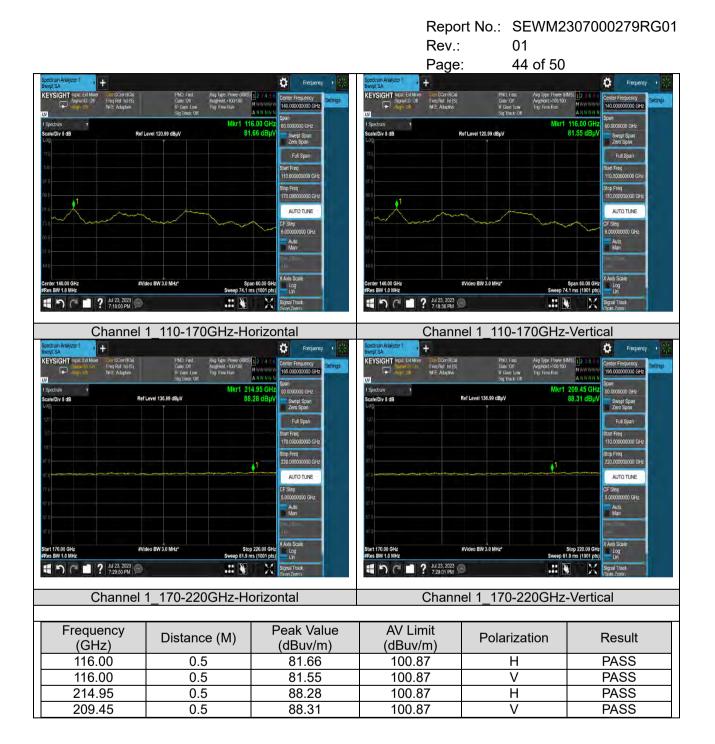
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			R	eport No.: ev.: age:	SEWM23 01 43 of 50	307000279RG01
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#Res BW 1.0 MHz	ко визалини sweep 30.9 m 1 50-75GHz-Hor	Signal Track (Span Zoom)		#Video BW 3.0 MHz 33 2023		I GARNA CINATO
100 111 101 970 10 10 10 10 10 10 10 10 10 10 10 10 10	sg Track Oth Ing Andread Rel Sg Track Oth 128.99 (Bpt) 89	Ministry Search Search A Ministry Search Search A Ministry Search Search 720 GHz Skoto0000 GHz Search Super Span Sweet Span Start Freq 75.0 GHz Skoto0000 GHz Skoto0000 GHz Start Freq Start Freq Start Freq 7.5.000000 GHz Start Freq Start Freq 3.00000000 GHz Start Freq Start Freq 3.00000000 GHz Start Freq Start Freq Autor Tune Autor Tune Man Autor Tune Man Man Autor Tune Man Man Man Man Man	Conter 92 50 GHz Center 92 50 GHz	Vel Int (S) Gate Adaptive ⊮ G	Inc. 04 Inc. 04 Inc. 10 Inc. 04 Mkrt 1	Control Friedpace Friedpace MSU 2.1.4.4.6. (2.20000000 GHz) Setting 3 MSU MSU Setting 3 Setting 3 Setting 3 Setting 3 <
Channel	1_75-110GHz-Ho	rizontal	Cł	nannel 1_75	5-110GHz-\	Vertical
Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	AV Limit (dBuv/m)	Pola	rization	Result
60.300	0.5	80.93	100.87		Н	PASS
60.200	0.5	77.44	100.87		V	PASS
81.720	0.5	89.06	100.87		Н	PASS
81.720	0.5	86.86	100.87		V	PASS



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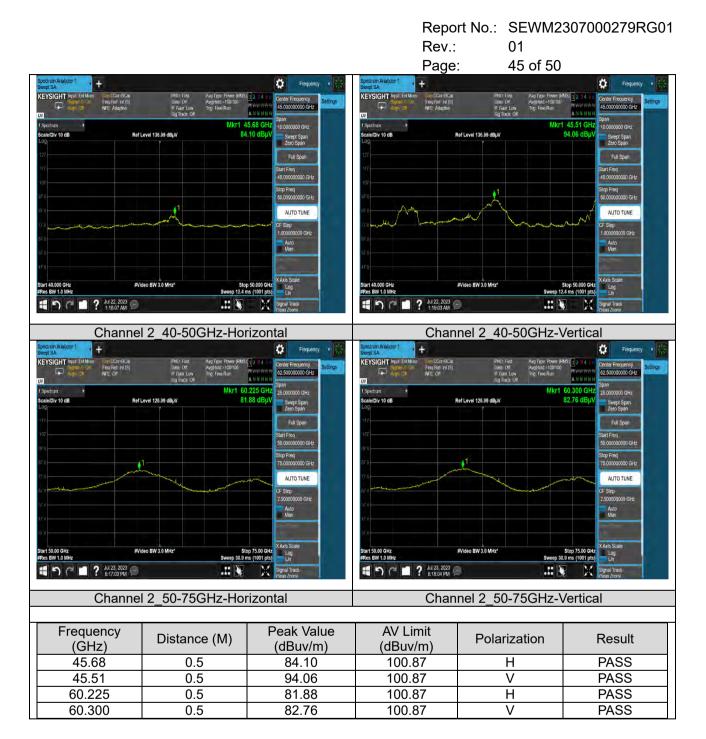
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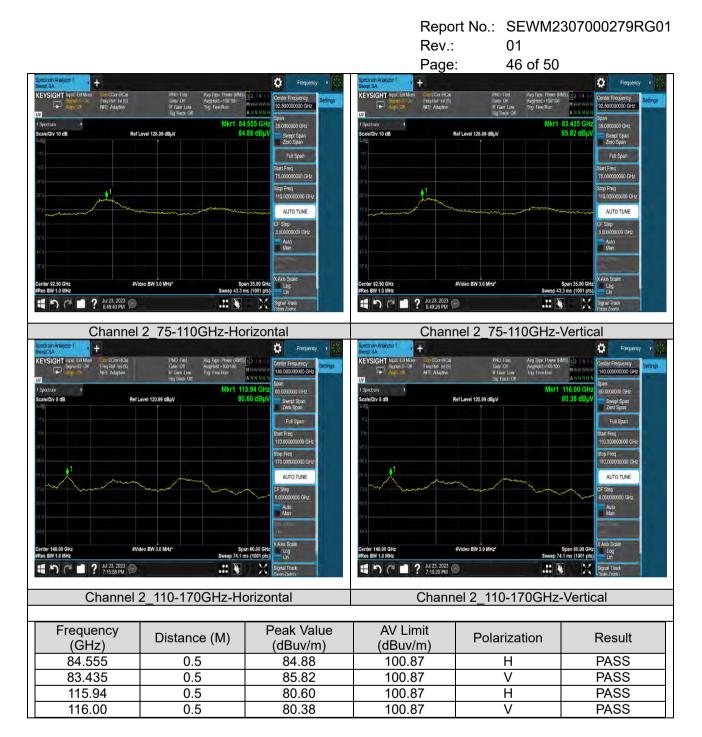
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				Report No Rev.: Page:	.: SEWM2 01 47 of 50	307000279RG01
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#Res BY 10 MHz Image: System Analyzer 1 Spectrum Analyzer 1 Spectrum Analyzer 1 Spectrum Analyzer 1	Swep 61.57 € 2_170-220GHz-H(Signal Trad Irson Zoom	Spectrum Analyzer 1	+	sweep 67	
KEYSIGHT wat Extrine Tore DORTED. Control Provide Tore Dorted and the second s		M vers were 45.00000000 GHz 304rdg5 A H H H H H Span 7.59 GHz 304rdg5 34 d BjvV Swap Span Full Span 4.10 Sub00000 GHz Start Freq 4.00000000 GHz 5.00000000 GHz 5.00000000 GHz Stop Freq 5.00000000 GHz 5.00000000 GHz 5.00000000 GHz JUTO TUNE AUTO TUNE 3.0000000 GHz 5.00000000 GHz	KEYSIGHT mud Etitko Segmini / Segmini	er Toroton Kital Preç Pari I (5) ME Adadire Ref Level 135.99		Movement #50000000 GHz A H H H H Span 78.72 dBjVV Swept Span Full Span Full Span Start Freq Start Freq 40.0000000 GHz Start Freq Start Freq Start Freq Start Freq Start Freq Start Freq Start Freq JUD TUNE Start Freq
#Res BW 1.0 MHz	Ideo BW 3.0 MHz* Sto Sweep 12.4 1 Sweep 12.4	Signal Track (Span Zhorn)	700 600 570 1/0 Start 40 000 GHz #Res BW 1.0 MHz #Res DW 1.0 MHz	FVideo BW 3.0.1 ? Jul 22. 2023 1.14446 AAM Channel 3	40-50GHz-\	GF Step 10000000 Btc Auto Main Step 5000 Ott Arts (100 pt) Step 5000 Ott Step 5000 Ott S
Frequency		Peak Value	AV Li	mit		
(GHz)	Distance (M)	(dBuv/m)	(dBuv		olarization	Result
219.20	0.5	88.39	100.8		Н	PASS
219.05	0.5	88.42	100.8		V	PASS
47.59	0.5	82.34	100.8		Н	PASS
47.08	0.5	78.72	100.8	87	V	PASS



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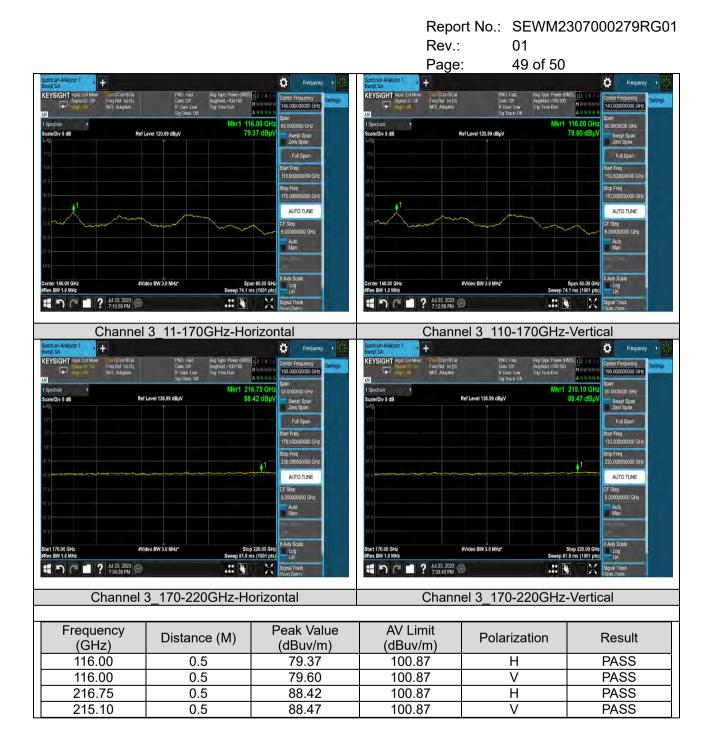
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			Repo Rev. Page	: 01	2307000279RG01		
Log 111 111 111 111 111 111 111 1	Signature Signature Mkr1 60 Mkr1 60 126.39 dBjV 82 1 1 1 1 1 1 1 1 1 1 1 1 1	A NN NNN Span 700 GHz 22000000 GHz 2000000 GHz 2000000 GHz 20000000 GHz 35arl Friet 500000000 GHz 35arl Triet 500000000 GHz 2000000 GHz 20000000 GHz 2000000 GHz 2000000 GHz 2000000 GHz 2000000 GHz 20000000 GHz 2000000 GHz 20000000 GHZ 2000000 GHZ 20000000 GHZ 20000000 GHZ 20000000 GHZ 200000000000 GHZ 20000000 GHZ 20000000 GHZ 200	Sector Attalytes 1 KEYSIGHT Input Cit Mee KEYSIGHT Input Cit Mee Function Functio	Ref Level (26.39 dBy//	With Signer Center Frequency With Signer Max Signer Sound Signer Sound Signer F00.250 GHz Sound Signer Sound Signer Store 75.00 GHz Sound Signer Autor Null Store 75.00 GHz Store 75.00 GHz Signer Store 75.00 GHz Signer Autor Null Store 75.00 GHz Signer Signer Signer 75.00 GHz Signer Signer		
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Channel	3_75-110GHz-Ho	rizontal	Channel 3_75-110GHz-Vertical				
Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result		
60.700	0.5	82.77	100.87	Н	PASS		
60.250	0.5	83.11	100.87	V	PASS		
85.535	0.5	84.39	100.87	Н	PASS		
85.640	0.5	83.63	100.87	V	PASS		



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Frequency stability Test Result

Frequency Stability vs temperature:

Frequency (GHz)	Temperature (°C)	Voltage (V ac)	F∟ (GHz)	Limit (GHz)	Fн (GHz)	Limit (GHz)	Result
	50	120	57.151	57	65.941	71	Pass
	40	120	57.148	57	65.959	71	Pass
	30	120	57.149	57	65.943	71	Pass
	20	120	57.152	57	65.960	71	Pass
57-66	10	120	57.145	57	65.955	71	Pass
	0	120	57.155	57	65.958	71	Pass
	-10	120	57.141	57	65.955	71	Pass
	-20	120	57.147	57	65.946	71	Pass

Frequency Stability vs voltage:

Frequency (GHz)	Voltage (V ac)	Temperature (°C)	F∟ (GHz)	Limit (GHz)	Fн (GHz)	Limit (GHz)	Result
	102	20	57.142	57	65.946	71	Pass
57-66	120	20	57.153	57	65.953	71	Pass
	138	20	57.149	57	65.947	71	Pass

---End of Report---



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