

FCC Test Report

Report No.: AGC00688201210FE02

FCC ID	8	2AMSUTRC5C
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Type-C Receiver
BRAND NAME		SANWA
MODEL NAME	÷	SANWA RC5C
APPLICANT		SANWA LIMITED
DATE OF ISSUE	© •	Apr. 25, 2021
ATANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0





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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Apr. 25, 2021	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	SANWA LIMITED		
Address	Room 1005, 10/F., Tower 2, Silvercord, 30 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong		
Manufacturer	Shenzhen Hangshi Technology Co., Ltd		
Address Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.			
Factory	Shenzhen Hangshi Technology Co., Ltd		
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.		
Product Designation	Type-C Receiver		
Brand Name	SANWA		
Test Model	SANWA RC5C		
Date of test	Mar. 17, 2021 to Apr. 23, 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

well chang

Cool Cheng (Project Engineer)

Apr. 26, 2021

Reviewed By

Max Zhank

Max Zhang (Reviewer)

Apr. 26, 2021

Approved By

former

Forrest Lei (Authorized Officer)

Apr. 26, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Type-C Receiver". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.405GHz to 2.470GHz			
RF Output Power	-14.285dBm (Max)			
Modulation	GFSK			
Number of channels	8 Channel			
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)			
Antenna Gain	-1.66dBi			
Hardware Version	V1.4			
Software Version	V1.0			
Power Supply	DC 5V by PC			

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	01	2405 MHz
	02	2413 MHz
	03	2422 MHz
2400 2402 EMILE	04	2430 MHz
2400~2483.5MHz	05	2440 MHz
	06	2450 MHz
AND AGO AC	07	2460 MHz
	08	2470 MHz

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AMSUTRC5C** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted, $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX (2405 MHz)
2	Middle channel TX (2430 MHz)
3	High channel TX (2470 MHz)

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.

- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

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VID: 248a	PID:	8566		-1	CONNE	- T		CLEAR	
	112.	0000		_	COMMEN	-1		CLERK	
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			PARII	JC.					
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2430MHz			2470	unz			2400	Juliz	
	TE	ST					DATA	SENT	

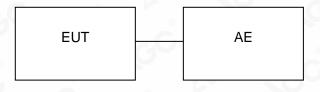
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Type-C Receiver	SANWA RC5C	2AMSUTRC5C	EUT
2	PC	16301-01	N/A	AE
3	PC adapter	ADC6501TM	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207 Conducted Emission		Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
Test software	FARA	EZ-EMC(Ver.AGC- CON03A1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	FARA	EZ-EMC(Ver.RA-0 3A)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

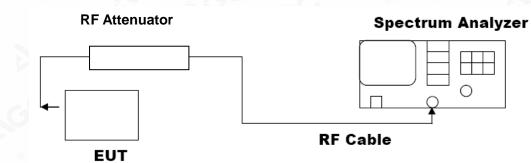
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT					
	FOR GFSK MOUDULA	TION				
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.405	-14.780	30	Pass			
2.430	-14.846	30	Pass			
2.470	-14.285	30	Pass			

CH01

nter Freq 2.405000000 GHz PR0: Fast IFGain:Low Ref 20.00 dBm Center Fre 2.405000000 GH Center Fre 2.40500000 GH Center Fre 2.40500000 GH Center Fre 2.40500000 GH Center Fre 2.40500000 GH Center Fre 2.40500000 GH Center Fre 2.40500000 GH Center Fre 2.407500000 GH Center Fre 2.407500000 GH Center Fre 2.407500000 GH Center Fre 2.407500000 GH Center Fre 2.407500000 GH CF Ste 500.000 kH Auto Ma	Agilent Spectr	um Analyzer - Swo		CORREC	CENC	- nu cel		ALIGNAUTO	00-00-11 0	M. ley 10, 2021	_	
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es BW 1.5 MHz #VBW 5.0 MHz Sweep 1.000 ms (1001 pts)									Span 5	.000 MHz		
	Res BW	1.5 MHz		#VBV	V 5.0 MHz			Sweep 1	.000 ms ((1001 pts)		

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CH08

Agilent Spectrum Analyzer - Swept SA X RL RF 50 Ω AC Center Freq 2.470000000) GHz		ALIGN AUTO g Type: Log-Pwr Hold: 100/100	08:39:30 PM Apr 19, 2021 TRACE 1 2 3 4 5 TYPE M	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast ++ Trig: Fr IFGain:Low Atten:			2.469 455 GH: -14.285 dBn	Auto Tur
10.0					Center Fr 2.470000000 G
0.00	1				Start Fr 2.467500000 G
20.0 30.0 Here and a second se					Stop Fr 2.472500000 G
40.0					CF St 500.000 k <u>Auto</u> M
60.0					Freq Offs 0
70.0 Center 2.470000 GHz				Span 5.000 MH	
Res BW 1.5 MHz	#VBW 5.0 MF	z	Sweep 1	.000 ms (1001 pts	

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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT					
Annliaghla Limita	Applicable Limits				
Applicable Limits	Test Data	(MHz)	Criteria		
S S	Low Channel	1.417	PASS		
>500KHZ	Middle Channel	1.534	PASS		
	High Channel	1.452	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

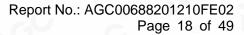
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS			

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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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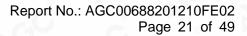
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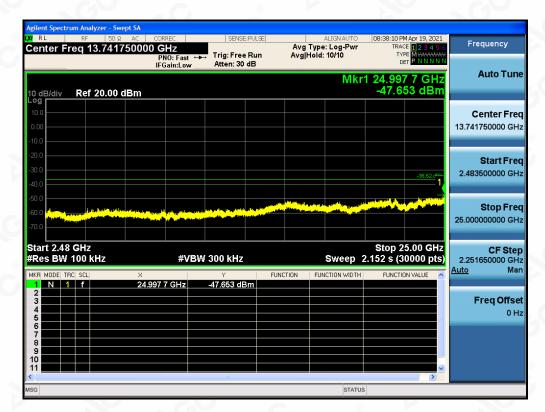


GFSK MODULATION IN MIDDLE CHANNEL

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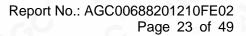
 Tel: +86-755 2523 4088
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RL RF		SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr	08:40:37 PM Apr 19, 2021	Frequency
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GFSK MODULATION IN HIGH CHANNEL

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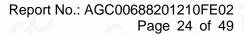




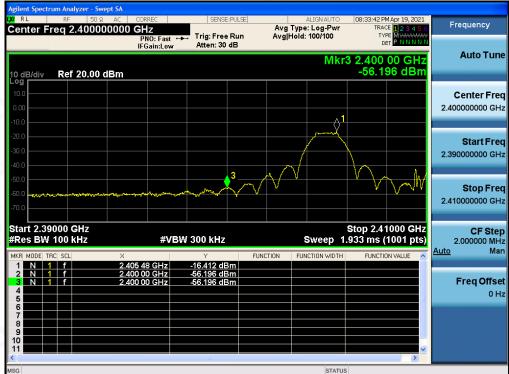


Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

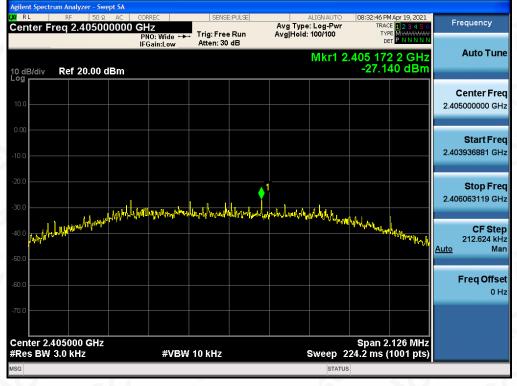
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

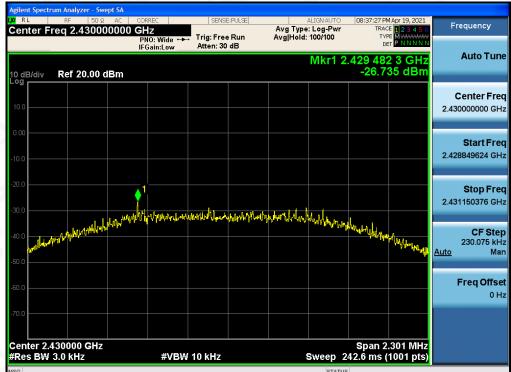
10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-27.140	8	Pass
Middle Channel	-26.735	8	Pass
High Channel	-28.004	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

a RL Frequency Center Freq 2.470000000 GHz Avg Type: Log-Pw Avg|Hold: 100/100 Trig: Free Run Atten: 30 dB NO: Wide IFGain:Low Auto Tune Mkr1 2.469 547 0 GHz -28.004 dBm dB/div Ref 20.00 dBm Center Freq 2.470000000 GHz Start Freq 2.468911034 GHz Stop Freq 2.471088966 GHz IN ALL 1MLAI **CF** Step 217.793 kHz Auto Mar Freq Offset 0 Hz Center 2.470000 GHz #Res BW 3.0 kHz Span 2.178 MHz Sweep 229.7 ms (1001 pts) #VBW 10 kHz

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

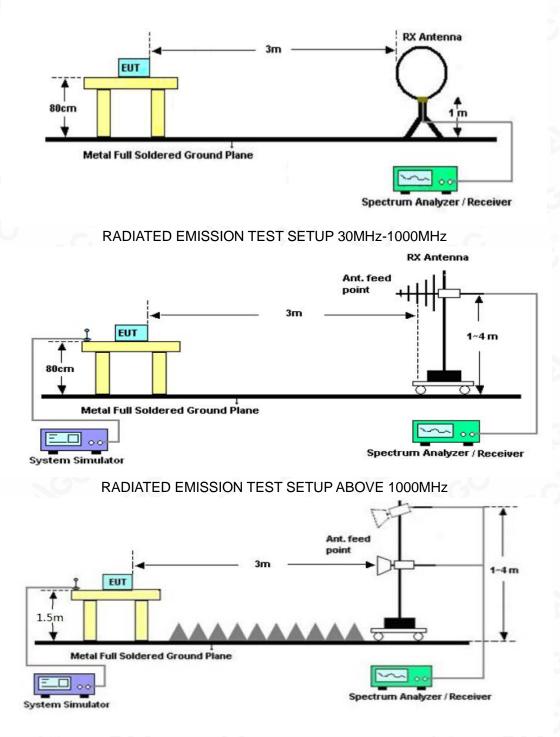
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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11.2. TEST SETUP



Radiated Emission Test-Setup Frequency Below 30MHz

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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

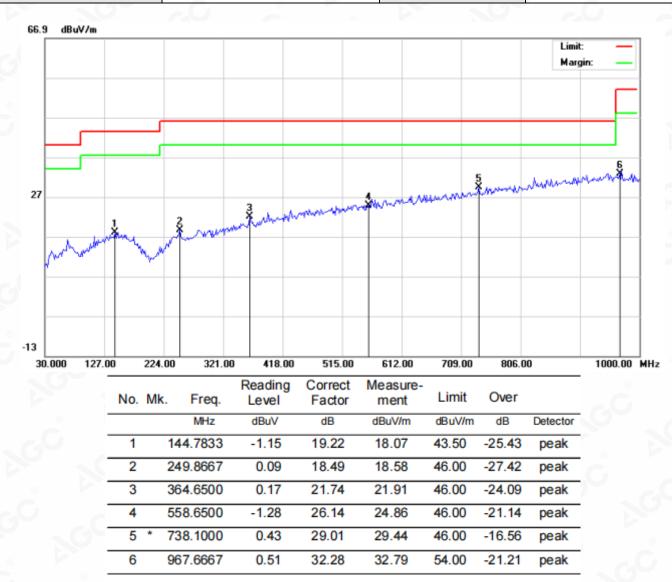
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RADIATED EMISSION BELOW 1GHZ

EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal



RESULT: PASS

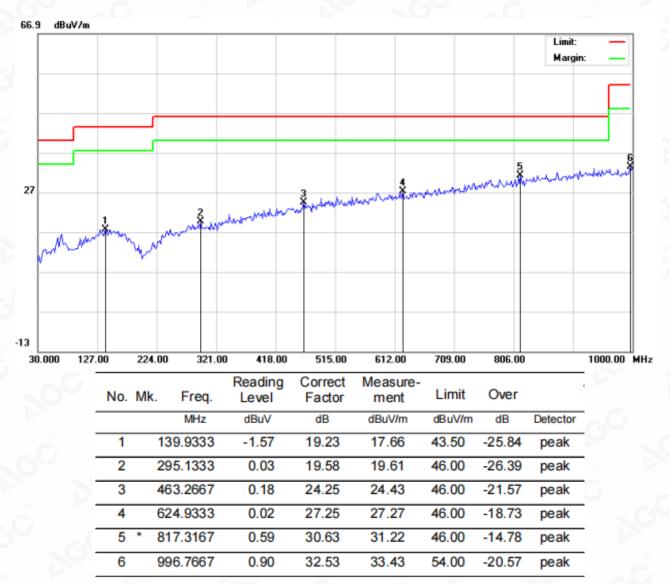
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EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical



RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 2 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

			1		
Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.28	0.08	44.36	74	-29.64	peak
35.67	0.08	35.75	54	-18.25	AVG
37.31	2.21	39.52	74	-34.48	peak
30.72	2.21	32.93	54 💿	-21.07	AVG
0			- C.	®	
	8				8
na Factor + Cable	e Loss – Pre-	amplifier.			
	44.28 35.67 37.31 30.72	(dBµV) (dB) 44.28 0.08 35.67 0.08 37.31 2.21 30.72 2.21	(dBµV) (dB) (dBµV/m) 44.28 0.08 44.36 35.67 0.08 35.75 37.31 2.21 39.52	(dBµV) (dB) (dBµV/m) (dBµV/m) 44.28 0.08 44.36 74 35.67 0.08 35.75 54 37.31 2.21 39.52 74 30.72 2.21 32.93 54	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 44.28 0.08 44.36 74 -29.64 35.67 0.08 35.75 54 -18.25 37.31 2.21 39.52 74 -34.48 30.72 2.21 32.93 54 -21.07

EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4810.000	45.19	0.08	45.27	74	-28.73	peak
4810.000	34.58	0.08	34.66	54	-19.34	AVG
7215.000	38.61	2.21	40.82	74	-33.18	peak
7215.000	29.11	2.21	31.32	54	-22.68	AVG
mark:		200	6			6

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4860.000	44.86	0.14	45	74	-29	peak
4860.000	35.61	0.14	35.75	54	-18.25	AVG
7290.000	39.47	2.36	41.83	74	-32.17	peak
7290.000	31.08	2.36	33.44	54	-20.56	AVG
	0				0	
emark:	©	8			°	

Tactor = Antenna Factor + Cable Loss - FTe-ampliner.

EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4860.000	42.67	0.14	42.81	74	-31.19	peak
4860.000	36.77	0.14	36.91	54	-17.09	AVG
7290.000	38.46	2.36	40.82	74	-33.18	peak
7290.000	32.51	2.36	34.87	54	-19.13	AVG
		- Ci	(3)			
				8		

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4940.000	46.32	0.22	46.54	74	-27.46	peak
4940.000	36.48	0.22	36.7	54	-17.3	AVG
7410.000	40.16	2.64	42.8	74	-31.2	peak
7410.000	30.72	2.64	33.36	54	-20.64	AVG
0				®		

EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Trees
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
42.12	0.22	42.34	74	-31.66	peak
34.91	0.22	35.13	54	-18.87	AVG
37.46	2.64	40.1	74	-33.9	peak
29.68	2.64	32.32	54	-21.68	AVG
<u> </u>		®		6	<u>.</u>
	42.12 34.91 37.46	42.12 0.22 34.91 0.22 37.46 2.64	42.12 0.22 42.34 34.91 0.22 35.13 37.46 2.64 40.1	42.12 0.22 42.34 74 34.91 0.22 35.13 54 37.46 2.64 40.1 74	42.12 0.22 42.34 74 -31.66 34.91 0.22 35.13 54 -18.87 37.46 2.64 40.1 74 -33.9

Factor = Antenna Factor + Cable Loss – Pre-amplifier. RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Compliand Dedicated Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written anthorization of AC he test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d he test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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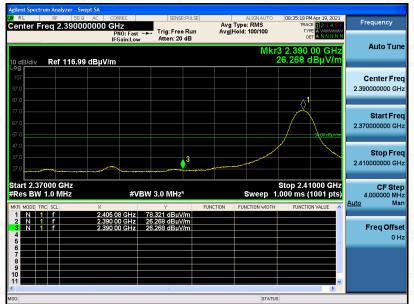
EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

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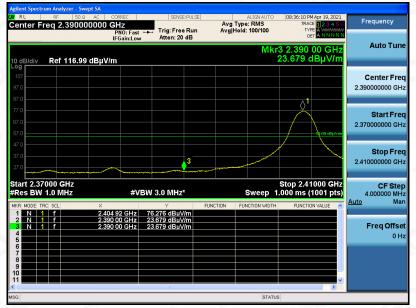


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EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



AV



RESULT: PASS

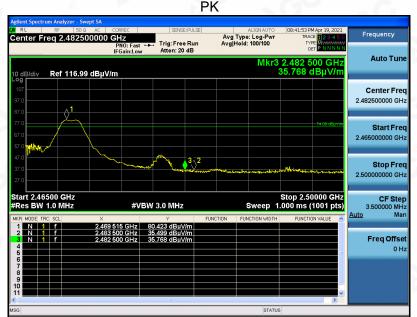
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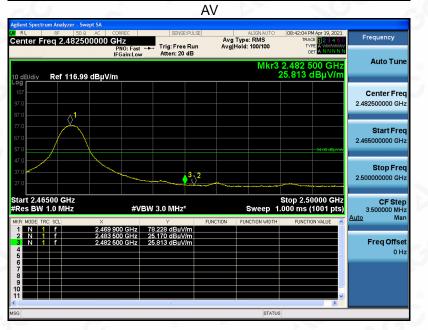
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EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	DI		





RESULT: PASS

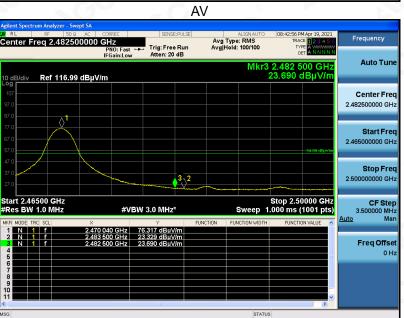
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EUT	Type-C Receiver	Model Name	SANWA RC5C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

ΡK Frequency q 2.482500000 GHz Avg Type: Log-Pw Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB IFGain:Low Auto Tun Ref 116.99 dBµV/m Center Fred 2.482500000 GH; Start Fred 2.465000000 GH; Stop Fre 2.50000000 GH CF Ste 3.500000 MH Stop 2.50000 GHz 1.000 ms (1001 pts) #VBW 3.0 MHz Sweep uto Freq Offse 0 H;



RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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12. FCC LINE CONDUCTED EMISSION TEST

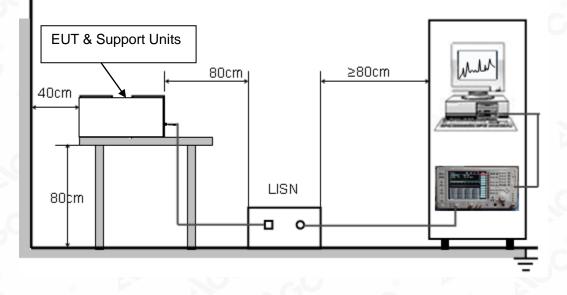
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage		
Frequency	Q.P.(dBuV)	Average(dBuV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

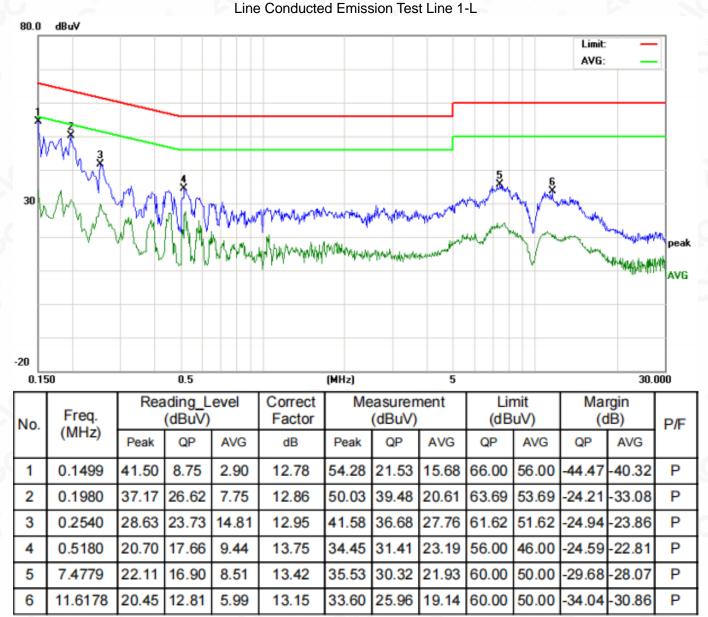
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

RESULT: PASS

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80.0 dBuV Limit: AVG: peak AVG -20 30.000 0.150 0.5 (MHz) 5 Reading_Level Correct Measurement Limit Margin Freq. (dBuV) Factor (dBuV) (dBuV) (dB) P/F No. (MHz) Peak QP AVG dB Peak QP AVG QP AVG QP AVG 0.1539 12.79 55.78 -17.19-27.01 Ρ 1 38.37 35.80 15.98 51.16 48.59 28.77 65.78 2 0.1900 36.80 32.24 16.69 12.85 49.65 45.09 29.54 64.03 54.03 -18.94 -24.49 Ρ 3 0.5100 19.64 16.23 5.97 13.75 33.39 29.98 19.72 56.00 46.00 -26.02 -26.28 P 0.5420 19.96 13.77 27.81 46.00 Ρ 4 14.04 2.77 33.73 16.54 56.00 -28.19-29.46 5 8.0419 19.50 15.06 6.67 13.45 32.95 28.51 20.12 60.00 50.00 -31.49 -29.88P Ρ 6 10.7339 19.12 15.95 8.55 12.90 32.02 28.85 21.45 60.00 50.00 31.15 28.55

Line Conducted Emission Test Line 2-N

RESULT: PASS

Note: All the test modes had been tested, the mode 2 was the worst case. Only the data of the worst case would be record in this test report.

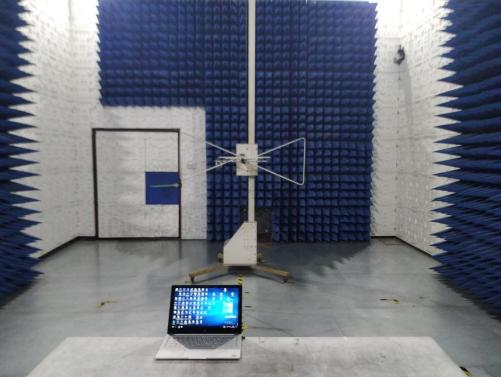
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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