

# **TEST REPORT**

Report No. SST2503E0178

Applicant: Shenzhen Colorful Yugong Applied Technology Innovation

Co., Ltd.

1103, 11th Floor, Building 4, Shenzhen New Generation

Address of Applicant: Industrial Park, No. 136, ZhongkangRoad, Meilin Street, Futian

District, Shenzhen, China.

Product Name: NOTEBOOK COMPUTER

Trade Mark: COLORFUL

Standard(s): FCC CFR Title 47 Part 15 Subpart E Section 15.247

ANSI C63.10-2020

FCC ID: 2BN3V-L1

Test Report Form No: SST-RD-7.5-02-E01(A/0)

Date of sample receipt: 2025/1/13

**Date of Test:** 2025/1/13 - 2025/3/10

Date of report issued: 2025/3/12

\*The equipment complies with the requirements according to the standard(s) or Specification above, it is applicable only to the tested sample identified in the report.

Prepared by:

Reviewed by:

Approved by:

\*The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

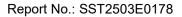




# **Revision History**

Version	Description	Date of Issue
V1.0	Original	2025/3/12

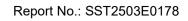






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3 Test Summary

Test items	Basics standards	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)(iii)	Pass
Dwell Time	15.247 (a)(1)(iii)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

#### Notes:

## 4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95%

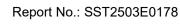
confidence level using a coverage factor of k=2.

Item	Uncertainty (±) (k=2, 95%)		
Output Power, Conducted	0.54		
Power Spectral Density, Conducted	1.28		
Spurious Emissions, Conducted	1.2	28	
Padiated Emissions (<1CHz)	9kHz~30MHz	2.6	
Radiated Emissions(<1GHz)	30MHz~1GHz	5.08	
	1GHz~6GHz	4.02	
Radiated Emissions(>1GHz)	6GHz~18GHz	4.62	
	18GHz~40GHz	4.7	
Occupied Bandwidth	1.14		
Conducted Emissions—AC mains	9kHz~150KHz	1.76	
Conducted Emissions—AC mains	150kHz~30MHz	2.52	
Conducted Emissions—Telecom	2.6	64	

<sup>1:</sup> NA =Not Applicable

<sup>2:</sup> Determining compliance based on the results of the compliance measurement, not taking into account measurement uncertainty. If necessary, the applicant shall informing test lab in advance

<sup>3:</sup> Additions, Deviations and Exclusions from Standards: None.





#### 5 General Information

#### 5.1 Client Information

Applicant: Shenzhen Colorful Yugong Applied Technology Innovation Co.,

Ltd.

Address of applicant: 1103, 11th Floor, Building 4, Shenzhen New Generation

Industrial Park, No. 136, ZhongkangRoad, Meilin Street, Futian

District, Shenzhen, China.

Manufacturer: Same as applicant
Address of
Manufacturer: Same as applicant

Factory: Shenzhen Gentude Technology Co.,Ltd

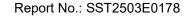
Address of Factory: 601, Building 1, Emdoor Building, No. 8 Guang Ke 1st Road,

Laokeng Community, Long Tian Street, PingShan District,

Shenzhen, China

#### 5.2 General Description of EUT

Product Name:	NOTEBOOK COMPUTER			
Model No.:	COLORFUL L1***********************************			
Test Model:	L1			
Test sample(s) ID:	2501130601			
Sample(s) Status:	Continuously transmitter			
S/N:	1			
Hardware Version:				
Software Version:				
Operation Frequency:	2402MHz~2480MHz			
Channel numbers:	79			
Channel separation:	1MHz			
Modulation type:	GFSK, Pi/4DQPSK, 8DPSK			
Antenna gain:	Refer to section 5.7 for details			
Power supply:	AC/DC ADAPTER  Model: AY65FA-AF1903422-US  Input: AC 100~240V, 50/60Hz, 1.8A  Output: DC 19V, 3.42A			
	Or DC 11.55V 4330mAh/50Wh Rechargeable li-ion battery			





#### 5.3 Test mode(s)

Mode 1:	continuously transmitting
Mode 2:	
Mode 3:	

Operation	Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz	
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz	
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz	
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz	
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz	
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz	
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz	
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz	
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz	
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz	
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz	
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz	
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz	
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz	
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz	
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz	
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz	
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz	
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz	
20	2421MHz	40	2441MHz	60	2461MHz			

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see above marked



#### 5.4 Test Facility

	FCC Accredited Lab
The test facility is	Test Firm Registration Number: 638130 Designation Number: CN1359
recognized, certified,	IC Registration Lab
or accredited by these organizations:	CAB Identifier No. CN0154
these organizations.	A2LA Accreditation Lab
	Certificate No.:7057.01

		Name
		GuangDong Set Sail Testing Co., Ltd.
Те	est Performed at:	Address
		101, No.19, Tianxin Hudie 1st Road, Huangjiang Town, Dongguan, Guangdong,
		China

#### 5.5 Description of Support Units

Device Type	Brand	Model	Series No.	Note

#### 5.6 Additional Instructions

Test Software	DRTU
Version:	05439.23.20.0
Power level setup	Default

#### 5.7 Antenna Information

Ant	Manufacturer	Model	Antenna Type	Antenna Gain (dBi)	Note
1	GUANGDONG SLEING COMM- TECH CO.,LTD	SLEingB247870175	FPCB	0.38	ВТ

All above information provided by the applicant which is fully responsible for those information.

#### 5.8 Others

The laboratory responsible for all the information provided in the report, except those information provided by the applicant.

The applicant shall fully responsible for the information they provided.

The report would be invalid without a stamp of test laboratory and the signatures of compiler and approver. The laboratory has not been responsible for the sampling stage; the test report merely corresponds to the test sample received.

Any objection to the test report shall submitted to the test laboratory within 15 days from the date of receipt of the report.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





## 6 Technical Requirement and Measurement Data

#### 6.1 Generally requirement

#### 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(c) (1)(i) 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 shall be considered sufficient to comply with the provisions of this section. 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.

#### **EUT Antenna:**

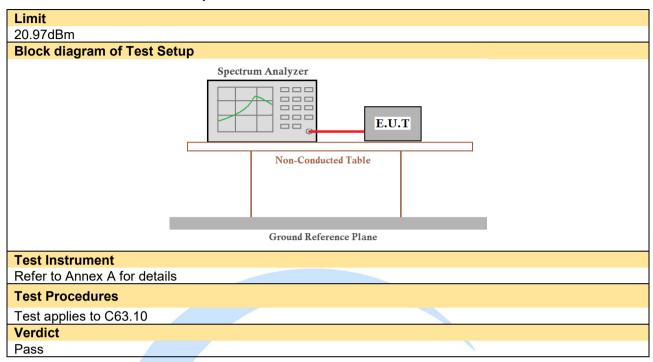
Reference to the appendix II for details







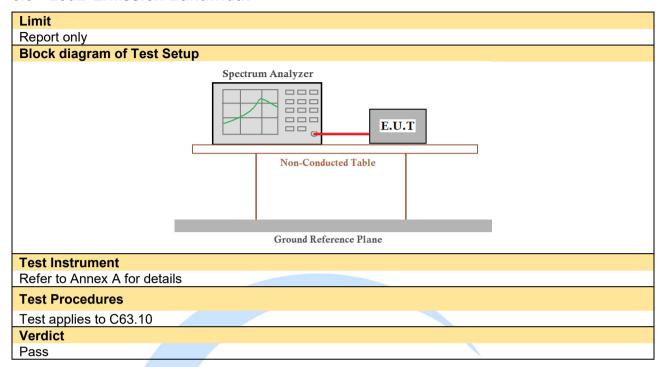
# 6.2 Conducted Peak Output Power







#### 6.3 20dB Emission Bandwidth





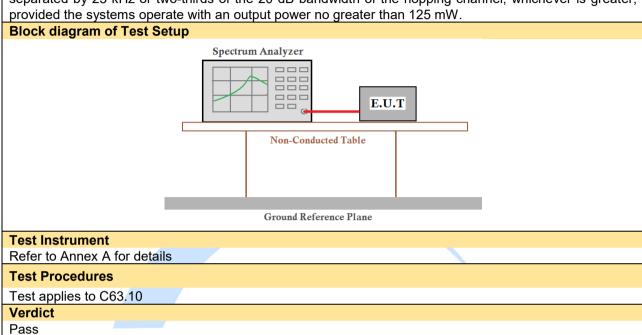




#### 6.4 Carrier Frequency Separation

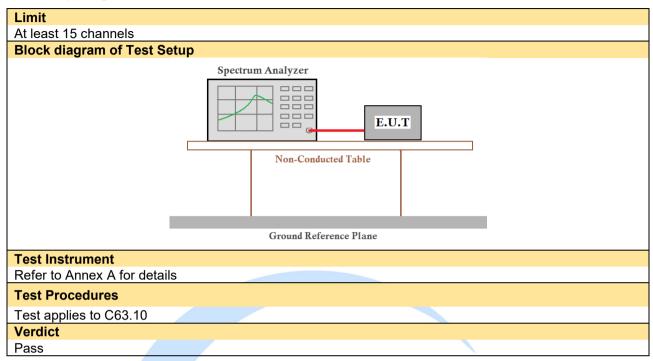
#### Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.





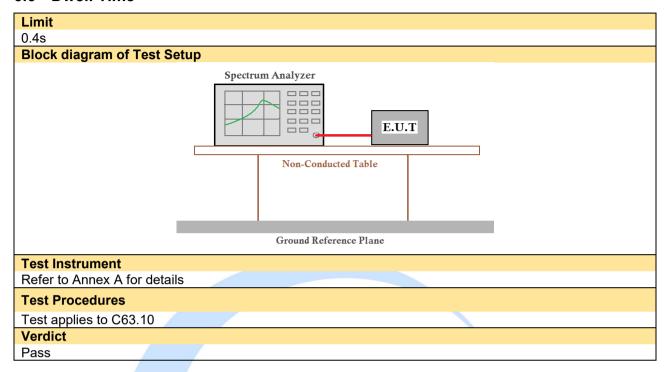
# 6.5 Hopping Channel Numbers



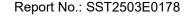




#### 6.6 Dwell Time









#### 6.7 Conducted Emission

#### Limit

**Pass** 

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

# Test Instrument Refer to Annex A for details Test Procedures Test applies to C63.10 Verdict





#### 6.8 Radiated Spurious Emission

Frequency (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

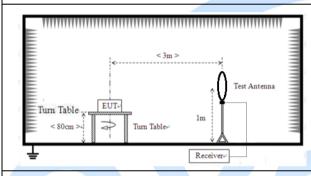
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

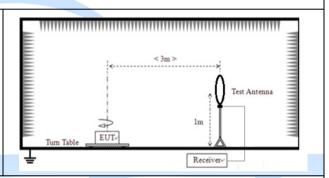
#### **Block diagram of Test Setup**

⊠For table-top equipment

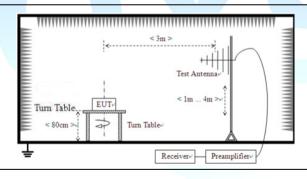
For floor standing equipment

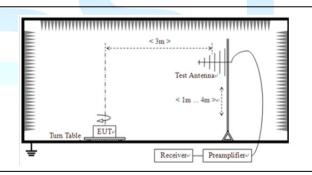
#### For radiated emissions from 9kHz to 30MHz



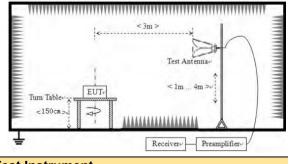


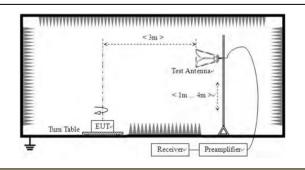
#### For radiated emissions from 30MHz to1GHz





#### For radiated emissions above 1GHz





#### **Test Instrument**



Refer to Annex A for details

#### **Test Procedures**

Test applies to C63.10

Verdict

Pass

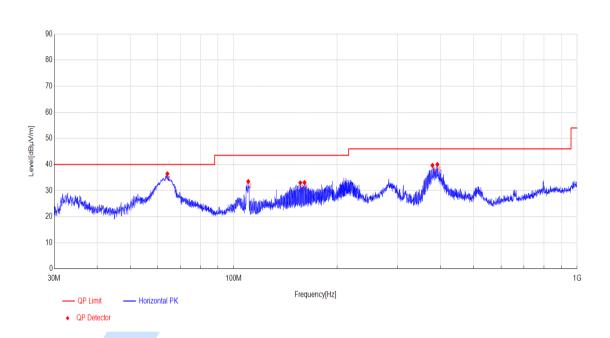
Note: The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.







Test Result(30M~1GHz)								
Test mode	Mode 1	Polarity	Horizontal					
Test voltage	AC 120V/60Hz	Temp. /Hum.	25 °C/60%					



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	Verdict
1	64.0829	12.17	36.44	40.00	3.56	Horizontal	PASS
2	110.2424	12.49	33.48	43.50	10.02	Horizontal	PASS
3	156.2562	9.46	32.99	43.50	10.51	Horizontal	PASS
4	160.7005	9.73	33.09	43.50	10.41	Horizontal	PASS
5	379.0082	16.78	39.67	46.00	6.33	Horizontal	PASS
6	391.8433	17.02	40.01	46.00	5.99	Horizontal	PASS

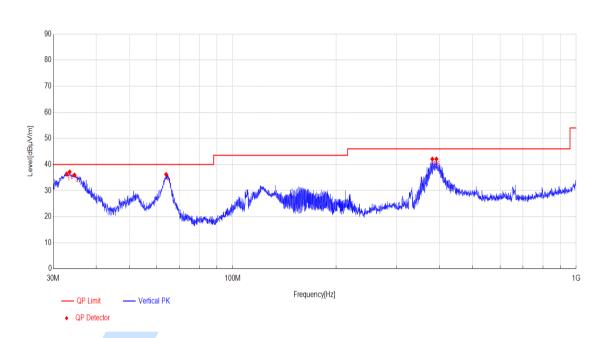
Note: Final Level =Receiver Read level + Factor

Factor = Antenna Factor + Cable Loss - Preamplifier Factor

Only the worst case report(GFSK 2402MHz)



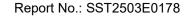
Test Result(30M~1GHz)							
Test mode	Mode 1	Polarity	Vertical				
Test voltage	AC 120V/60Hz	Temp. /Hum.	25 °C/60%				



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	Verdict
1	32.8629	11.39	36.27	40.00	3.73	Vertical	PASS
2	33.5027	11.53	37.14	40.00	2.86	Vertical	PASS
3	34.6069	11.77	35.97	40.00	4.03	Vertical	PASS
4	63.9707	12.21	36.20	40.00	3.80	Vertical	PASS
5	381.3406	16.82	42.07	46.00	3.93	Vertical	PASS
6	391.8433	17.02	42.09	46.00	3.91	Vertical	PASS

Note: Final Level =Receiver Read level + Factor Factor= Antenna Factor + Cable Loss - Preamplifier Factor

Only the worst case report(GFSK 2402MHz)





Test Result(Emissions in Non-restricted band)							
Test mode Mode 1 Temp. /Hum. 25 °C/60%							
Test voltage AC 120V/60Hz Test channel Lowest							

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310	59.51	27.71	5.3	53.84	38.68	74	-35.32	Horizontal
2390	63.91	27.91	5.4	53.82	43.4	74	-30.6	Horizontal
2310	58.06	27.71	5.3	53.84	37.23	74	-36.77	Vertical
2390	63.14	27.91	5.4	53.82	42.63	74	-31.37	Vertical

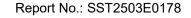
#### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310	52.72	27.71	5.3	53.84	31.89	54	-22.11	Horizontal
2390	56.11	27.91	5.4	53.82	35.6	54	-18.4	Horizontal
2310	48.56	27.71	5.3	53.84	27.73	54	-26.27	Vertical
2390	52.91	27.91	5.4	53.82	32.4	54	-21.6	Vertical

Note: Final Level =Receiver Read level + Factor

Factor= Antenna Factor + Cable Loss – Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.





Test Result(Emissions in Non-restricted band)							
Test mode Mode 1 Temp. /Hum. 25 °C/60%							
Test voltage AC 120V/60Hz Test channel Highest							

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.5	61.78	28.16	5.51	53.8	41.65	74	-32.35	Horizontal
2500	61.6	28.2	5.53	53.8	41.53	74	-32.47	Horizontal
2483.5	61.74	28.16	5.51	53.8	41.61	74	-32.39	Vertical
2500	58.67	28.2	5.53	53.8	38.6	74	-35.4	Vertical

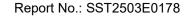
#### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.5	52.72	28.16	5.51	53.8	32.59	54	-21.41	Horizontal
2500	54.21	28.2	5.53	53.8	34.14	54	-19.86	Horizontal
2483.5	52.25	28.16	5.51	53.8	32.12	54	-21.88	Vertical
2500	55.29	28.2	5.53	53.8	35.22	54	-18.78	Vertical

Note: Final Level =Receiver Read level + Factor

Factor= Antenna Factor + Cable Loss – Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.





Test Result(Emissions in Restricted band)							
Test mode Mode 1 Temp. /Hum. 25 °C/60%							
Test voltage AC 120V/60Hz Test channel Lowest							

		,						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804	52.76	33.35	7.7	53.72	40.09	74	-33.91	Vertical
7206	52.79	36.54	9.55	53.24	45.64	74	-28.36	Vertical
9608	52.57	39.04	11.29	53.28	49.62	74	-24.38	Vertical
4804	52.93	33.35	7.7	53.72	40.26	74	-33.74	Horizontal
7206	54.84	36.54	9.55	53.24	47.69	74	-26.31	Horizontal
9608	52.92	39.04	11.29	53.28	49.97	74	-24.03	Horizontal

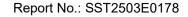
Average value:

<u> </u>		Alternative and the second sec						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804	46.43	33.35	7.7	53.72	33.76	54	-20.24	Vertical
7206	46.66	36.54	9.55	53.24	39.51	54	-14.49	Vertical
9608	48.14	39.04	11.29	53.28	45.19	54	-8.81	Vertical
4804	46.81	33.35	7.7	53.72	34.14	54	-19.86	Horizontal
7206	47.64	36.54	9.55	53.24	40.49	54	-13.51	Horizontal
9608	46.21	39.04	11.29	53.28	43.26	54	-10.74	Horizontal

Note: Final Level =Receiver Read level + Factor

Factor= Antenna Factor + Cable Loss – Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.





Test Result(Emissions in Restricted band)							
Test mode Mode 1 Temp. /Hum. 25 °C/60%							
Test voltage	AC 120V/60Hz	Test channel	Middle				

· ouit ruidoi								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882	54.65	33.57	7.77	53.71	42.28	74	-31.72	Vertical
7323	52.5	36.56	9.64	53.26	45.44	74	-28.56	Vertical
9764	54.87	39.11	11.39	53.25	52.12	74	-21.88	Vertical
4882	52.23	33.57	7.77	53.71	39.86	74	-34.14	Horizontal
7323	52.71	36.56	9.64	53.26	45.65	74	-28.35	Horizontal
9764	54.71	39.11	11.39	53.25	51.96	74	-22.04	Horizontal

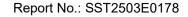
Average value:

Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882	46.11	33.57	7.77	53.71	33.74	54	-20.26	Vertical
7323	46.62	36.56	9.64	53.26	39.56	54	-14.44	Vertical
9764	46.92	39.11	11.39	53.25	44.17	54	-9.83	Vertical
4882	48.28	33.57	7.77	53.71	35.91	54	-18.09	Horizontal
7323	46.16	36.56	9.64	53.26	39.1	54	-14.9	Horizontal
9764	47.25	39.11	11.39	53.25	44.5	54	-9.5	Horizontal

Note: Final Level =Receiver Read level + Factor

Factor= Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.





Test Result(Emissions in Restricted band)							
Test mode	Mode 1	Temp. /Hum.	25 °C/60%				
Test voltage	AC 120V/60Hz	Test channel	Highest				

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960	52.46	33.79	7.83	53.7	40.38	74	-33.62	Vertical
7440	52.83	36.59	9.72	53.29	45.85	74	-28.15	Vertical
9920	52.93	39.17	11.48	53.22	50.36	74	-23.64	Vertical
4960	52.79	33.79	7.83	53.7	40.71	74	-33.29	Horizontal
7440	52.36	36.59	9.72	53.29	45.38	74	-28.62	Horizontal
9920	52.01	39.17	11.48	53.22	49.44	74	-24.56	Horizontal

#### Average value:

Average value.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960	44.98	33.79	7.83	53.7	32.9	54	-21.1	Vertical
7440	46.76	36.59	9.72	53.29	39.78	54	-14.22	Vertical
9920	44.42	39.17	11.48	53.22	41.85	54	-12.15	Vertical
4960	45.75	33.79	7.83	53.7	33.67	54	-20.33	Horizontal
7440	46.2	36.59	9.72	53.29	39.22	54	-14.78	Horizontal
9920	45.92	39.17	11.48	53.22	43.35	54	-10.65	Horizontal

Note: Final Level =Receiver Read level + Factor

Factor= Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.





#### 6.9 Conducted Emissions

#### Limit

Frequency (MHz)	Quasi-peak	Average
0.15~0.50	66 to 56*	56 to 46*
0.50~5.0	56	46
5.0~30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out

# 

#### **Test Instrument**

Refer to Annex A for details

#### **Test Procedures**

The measurement was performed in a shield room.

Measured levels of ac power-line conducted emission shall be the radio-noise voltage from the voltage probe, where permitted, or across the 50  $\Omega$  LISN port (to which the EUT is connected), as terminated into a 50  $\Omega$  EMI receiver or spectrum analyzer. All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN, if used. The manufacturer shall test equipment with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended. For measurements using a LISN, the 50  $\Omega$  measuring port is terminated into a 50  $\Omega$  EMI receiver or spectrum analyzer. All other ports are terminated into 50  $\Omega$  loads.

Table top devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

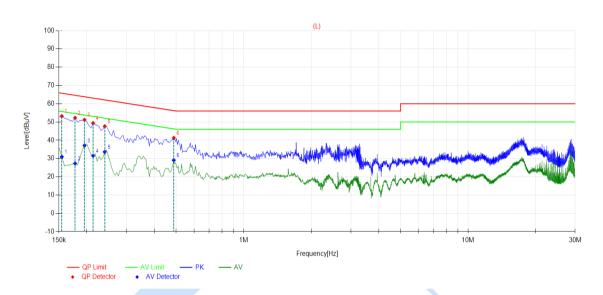
The bandwidth of the test receiver is set at 9 kHz.

#### Verdict

**Pass** 



Test Result							
Test mode	Mode 1	Polarity	Line				
Test voltage	AC 120V/60Hz	Temp. /Hum.	25 °C/60%				



Final Data List									
NO.	Freq. [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	Туре
1	0.1545	53.18	65.75	12.57	30.92	55.75	24.83	PASS	L
2	0.177	52.28	64.63	12.35	27.31	54.63	27.32	PASS	L
3	0.195	51.19	63.82	12.63	37.14	53.82	16.68	PASS	L
4	0.213	49.37	63.09	13.72	31.51	53.09	21.58	PASS	L
5	0.24	47.65	62.10	14.45	33.63	52.10	18.47	PASS	L
6	0.4875	41.28	56.21	14.93	29.08	46.21	17.13	PASS	L

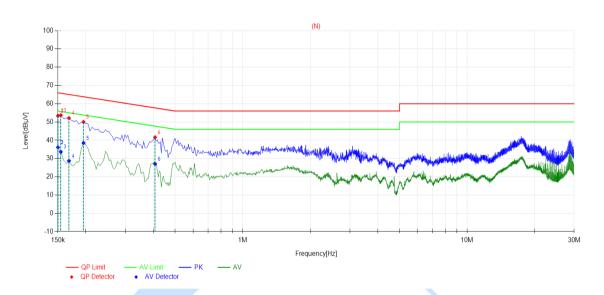
Note: Final Level =Receiver Read level + Factor

Factor= LISN Factor + Cable Loss

Only the worst case report(GFSK 2402MHz)



Test Result								
Test mode	Mode 1	Polarity	Neutral					
Test voltage	AC 120V/60Hz	Temp. /Hum.	25 °C/60%					



Final Data List										
NO.	Freq. [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	Туре	
1	0.15	53.34	66.00	12.66	36.10	56.00	19.90	PASS	N	
2	0.15	53.34	66.00	12.66	36.10	56.00	19.90	PASS	N	
3	0.1545	53.71	65.75	12.04	33.67	55.75	22.08	PASS	N	
4	0.168	52.14	65.06	12.92	28.73	55.06	26.33	PASS	N	
5	0.195	50.02	63.82	13.80	38.48	53.82	15.34	PASS	Ν	
6	0.4065	41.58	57.72	16.14	27.06	47.72	20.66	PASS	N	

Note: Final Level =Receiver Read level + Factor

Factor= LISN Factor + Cable Loss

Only the worst case report(GFSK 2402MHz)

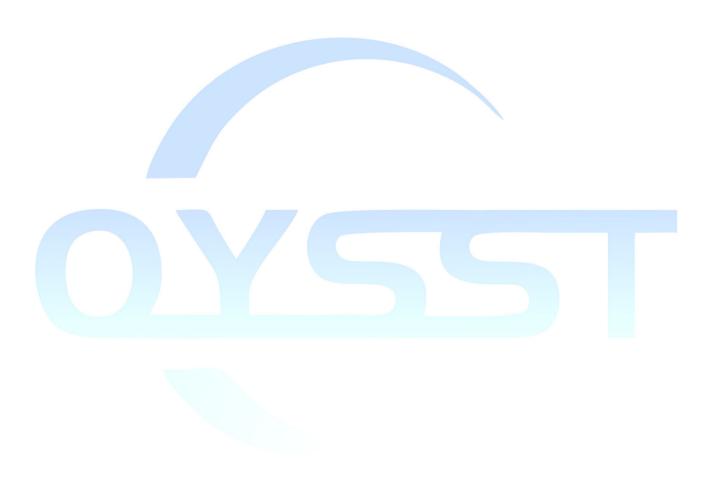




**Test Setup Photo**Reference to the **appendix I** for details.

**EUT Constructional Details** 

Reference to the appendix II for details.

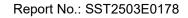




# **Annex A --Test Instruments list**

Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal.Date
SST-E-SAC001	3m Semi- Anechoic Chamber	BOST	966	1	3 years	2023.01.07
SST-E-SCC001	Control Room	BOST	333	1	3 years	2023.01.07
SST-E-SAC002	Breiband TRILOG Messantenne	Schwarzbeck	VULB 9162	00556	1 year	2024.04.20
SST-E-SAC004	Broad-band Horn Antenna	Schwarzbeck	BBHA 9120 D	02783	1 year	2024.04.16
SST-E-SCC003	EMI Test Receiver	R&S	ESU 8	100372	1 year	2024.04.16
SST-E-SCC004	Amplifier	Schwarzbeck	BBV 9744	00327	1 year	2024.04.16
SST-E-SCC015	Amplifie (1-18GHz)	TSTPASS	LNA10180G45	TSAM2303003	1 year	2024.04.16
SST-E-SCC016	Amplifier (40G)	RFsystem	TRLA- 180400G45B	23060801	1 year	2024.04.16
SST-E-SAC006	Broadband Horn Antenna(40G)	Schwarzbeck	BBHA9170	01306	1 year	2024.04.17
SST-E-RSC010	Spectrum analyzer	R&S	FSV40-N	1	1 year	2024.04.16
SST-E-SAC007	Loop Antenna	Schwarzbeck	FMZB 1513- 60B	1513-60B 044	1 year	2024.04.17
SST-E-SAC005	5W 6dB attenuator	1	DC-6GHz	1	Internal calibration	1
SST-E-EMC006	Thermohygrometer	KTJ	TA218A	879030	1 year	2024.04.18
	EMI Test Software	Tonscend	TS+	1	1	

Conducted Emission								
Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal.Date		
SST-E-CSC001	Shielding Room	BOST	854	1	3 year	2023.01.07		
SST-E-CSC002	EMI Test Receiver	R&S	ESR3	103057	1 year	2024.04.16		
SST-E-CSC003	LISN	R&S	ENV 216	102832	1 year	2024.04.16		
SST-E-CSC004	ISN	R&S	NTFM 8158	00347	1 year	2024.04.16		
SST-E-CSC007	Antenna port test assembly	1	DC-3GHz	1	Internal calibration	/		
SST-E-EMC011	Thermohygrometer	KTJ	TA218A	879036	1 year	2024.04.18		
1	EMI Test Software	Tonscend	TS+	V4.0	/	/		





RF conducted								
Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal.Date		
SST-E-RSC001	Shielding Room	BOST	543	/	3 year	2023.01.07		
SST-E-RSC007	Spectrum analyzer	keysight	N9020A	MY51280659	1 year	2024.04.16		
SST-E-RSC008	Analog signal source	Agilent	N5181A	MY48180054	1 year	2024.04.16		
SST-E-RSC009	Vector signal source	keysight	N5172B	MY57281610	1 year	2024.04.16		
SST-E-EMC007	Thermohygrometer	KTJ	TA218A	879032	1 year	2024.04.18		
SST-E-RSC010	Spectrum analyzer	R&S	FSV40-N	1	1 year	2024.04.16		
SST-E-RSC015- 1	Power meter 1	TST	TST V2	1	1 year	2024.04.16		
1	Test Software	TST PASS	TST PASS	V2.0	1	1		
SST-S-CTH002	Temperature and humidity chamber	Guangdong fenghe	FH-TH-1000	FH24032017	1 year	2024.04.26		



