

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 1 of 25

TEST REPORT

Application No.:	FYCR2208000340AT
Applicant:	Razer Inc.
Address of Applicant:	9 Pasteur, Suite 100 Irvine California 92618 United States
Manufacturer:	Razer (Asia-Pacific) Pte., Ltd.
Address of Manufacturer:	1 one-north Crescent, #02-01, Singapore 138538
Factory:	RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO., LTD
Address of Factory:	East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business Park Keji South Road, Hi-Tech Industrial Park, Shenzhen 518057, China
Equipment Under Test (EUT):
EUT Name:	Soundbar
Model No.:	RZ05-0428, RZ05-0428XXXX-XXXX (X can be 0-9 or A-Z to define the different country within this series)
	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	RAZER
FCC ID:	RWO-RZ050428
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-08-24
Date of Test:	2022-08-26 to 2022-09-05
Date of Issue:	2022-09-09
Test Result:	Pass*

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

WinkeyWang

Winkey Wang EMC Technical Manager



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 2 of 25

	Revision Record							
Version Chapter Date Modifier Remark								
01		2022-09-09		Original				

Authorized for issue by:			
	Gree Zhan		
	Tree Zhan/Project Engineer	-	
	WinkeyWang		
	Winkey Wang/Reviewer	-	



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 3 of 25

2 Test Summary

Radio Spectrum Matter Part

Radio Spectrum Mat				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Radiated Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: RZ05-0428, RZ05-0428XXXX-XXXX (X can be 0-9 or A-Z to define the different

country within this series)

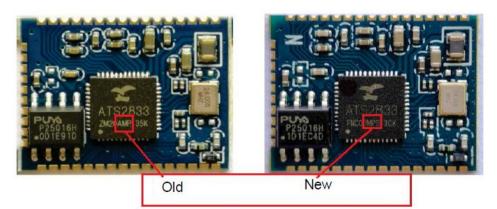
Only the model RZ05-0428 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model name and product customization including and not limited to color and printed design.

This test report (Ref. No.: FYCR220800034002) is only valid with the original test report (Ref. No.:

FYCR220400006602R1).

Review this report and original report, the differences are as follows:

ATS2833 original part P/N GD25Q16CW to alternate with P/N: GD25Q16EGIG. There is no difference to the layout or schematics for this part. It is same pin-to-pin and RF specification. Only the Chip Marking is different:





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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 4 of 25

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Maximum Conducted Output Power, Radiated Emissions below 1GHz and Radiated Emissions Above 1GHz were fully retested on model and shown the data in this report, other tests please refer to original report FYCR220400006602R1.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 5 of 25

3 Contents

		Pag	je
1	COVE	ER PAGE	. 1
2	TEST	SUMMARY	. 3
3	CON	TENTS	. 5
4	GENE	ERAL INFORMATION	. 6
	4.2 4.3 4.4 4.5 4.6 4.7	DETAILS OF E.U.T. DESCRIPTION OF SUPPORT UNITS MEASUREMENT UNCERTAINTY TEST LOCATION TEST FACILITY DEVIATION FROM STANDARDS ABNORMALITIES FROM STANDARD CONDITIONS	. 6 . 6 . 7 . 7 . 7 . 7
5	EQUI	PMENT LIST	. 8
6		O SPECTRUM MATTER TEST RESULTS	-
	-		-
	6.1.1 6.1.2	E.U.T. Operation Test Mode Description	
	6.1.3		
	6.1.4		
	6.2	RADIATED SPURIOUS EMISSIONS BELOW 1GHZ	
	6.2.1	E.U.T. Operation	12
	6.2.2	Test Mode Description	
	6.2.3	Test Setup Diagram	
	6.2.4	Measurement Procedure and Data	
		RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	
	6.3.1	E.U.T. Operation	
	6.3.2	Test Mode Description	
	6.3.3 6.3.4	Test Setup Diagram Measurement Procedure and Data	
7	TEST	SETUP PHOTO	24
8	EUT	CONSTRUCTIONAL DETAILS (EUT PHOTOS)	24
9	APPE	ENDIX	25



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 t
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 f
 (86-755)
 26710594
 www.sgsgroup.com.cn

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 6 of 25

4 General Information

4.1 Details of E.U.T.

Power Supply:	Powered by adapter or PC (5V/3A).
Cable(s):	USB-C to USB-C 150cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Data Rate:	1M/bit
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	2.24dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Razer	T15-050300-AX	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.8dB
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 7 of 25

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China Tel: +86 755 8866 3988 Fax: +86 755 2671 0594 No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC – Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

- 4.6 Deviation from Standards
 - None

4.7 Abnormalities from Standard Conditions

None



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 8 of 25

5 Equipment List

Conducted Peak Output Power							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11		
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11		
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11		

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24	
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25	
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25	
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11	
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12	
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11	
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25	
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24	
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11	
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/7/12	2023/7/11	
Pre-amplifier	Compliance Directions Systems	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11	



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 9 of 25

	Inc.				
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 10 of 25

6 Radio Spectrum Matter Test Results

6.1 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1

Limit:				
Frequency range(MHz)	Output power of the intentional radiator(watt)			
	1 for ≥50 hopping channels			
902-928	0.25 for 25≤ hopping channels <50			
	1 for digital modulation			
	1 for ≥75 non-overlapping hopping channels			
2400-2483.5	0.125 for all other frequency hopping systems			
	1 for digital modulation			
5725-5850	1 for frequency hopping systems and digital modulation			

6.1.1 E.U.T. Operation

Operating Environ	ment:					
Temperature:	21.5 °C	Humidity:	54.3 % RH	Atmospheric Pressure:	1020	mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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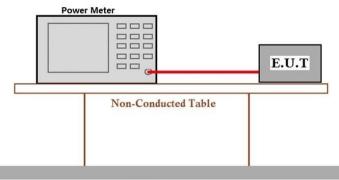
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 11 of 25

6.1.3 Test Setup Diagram



Ground Reference Plane

6.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 12 of 25

6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance:	3m

Limit:

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
960-1000	500	3

6.2.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	22.1 °C	Humidity:	52.1 % RH	Atmospheric Pressure:	1020	mbar

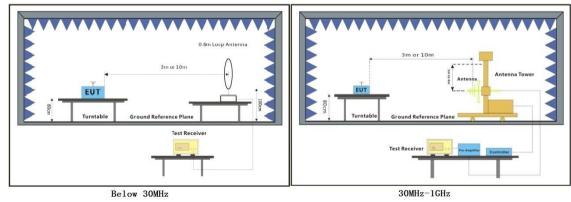
6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

6.2.3 Test Setup Diagram

专用章

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 13 of 25

6.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 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 radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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 quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. 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 case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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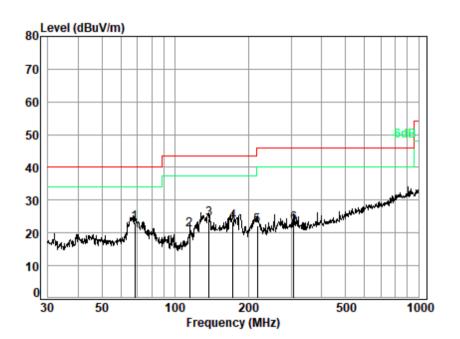
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 14 of 25



Test Mode: 02; Polarity: Horizontal

Site :	chamber
Condition:	3m HORIZONTAL
Job No :	00340AT
Mode :	02

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	68.1514	0.28	16.34	24.83	31.47	23.26	40.00	-16.74	QP
2	114.9169	0.91	15.28	25.51	30.17	20.85	43.50	-22.65	QP
3	137.9029	0.91	17.27	25.53	31.63	24.28	43.50	-19.22	QP
4	173.2051	0.70	16.65	25.55	31.53	23.33	43.50	-20.17	QP
5	217.5443	0.75	15.77	25.57	31.23	22.18	46.00	-23.82	QP
6	306.7537	1.08	18.62	25.60	28.74	22.84	46.00	-23.16	QP



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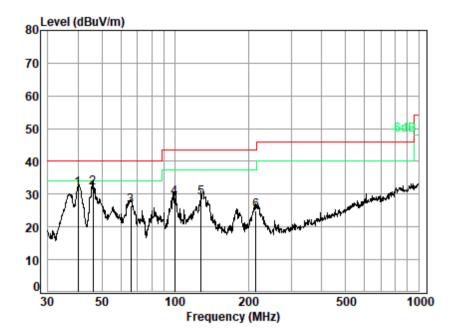
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 15 of 25

Test Mode: 02; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00340AT

Mode : 02

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	39.9942	0.20	16.73	24.94	39.73	31.72	40.00	-8.28	QP
2	46.0164	0.21	17.27	24.92	39.39	31.95	40.00	-8.05	QP
3	65.8031	0.26	16.49	24.84	34.51	26.42	40.00	-13.58	QP
4	99.5281	0.83	14.21	25.49	39.37	28.92	43.50	-14.58	QP
5	128.1130	0.92	16.45	25.52	37.19	29.04	43.50	-14.46	QP
6	214.5143	0.74	15.67	25.57	34.14	24.98	43.50	-18.52	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 16 of 25

6.3 Radiated Spurious Emissions Above 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6
Measurement Distance:	3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)	
Above 1000	500	3	

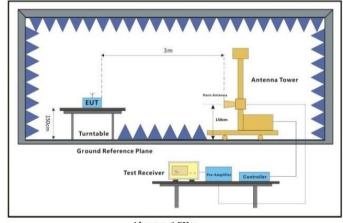
6.3.1 E.U.T. Operation

Operating Environment:						
Temperature:	23.5 °C	Humidity:	56.3 % RH	Atmospheric Pressure:	1020	mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.				

6.3.3 Test Setup Diagram



Above 1GHz



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 17 of 25

6.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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 or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. 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 case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, 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.



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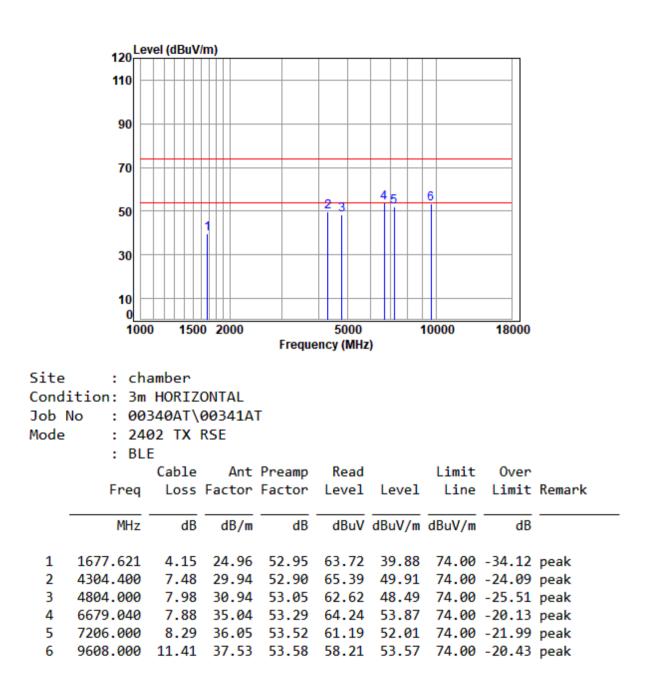
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Report No.: FYCR220800034002 Page: 18 of 25

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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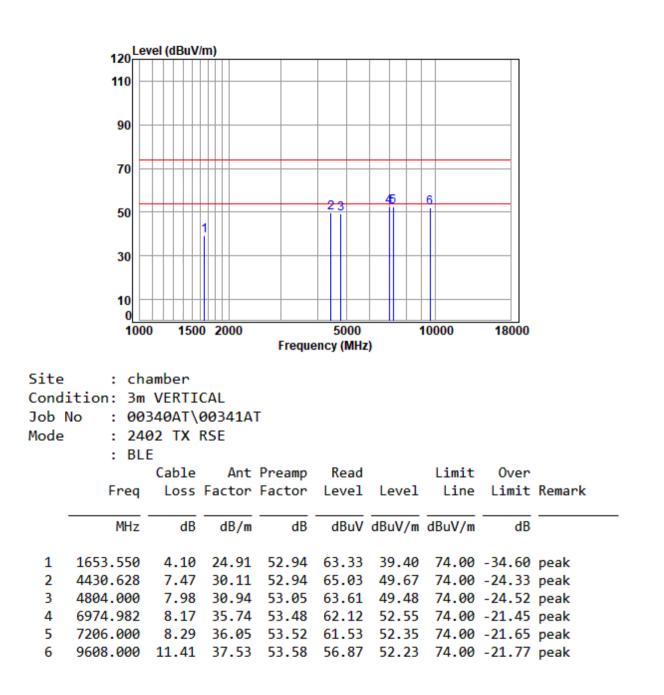
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Report No.: FYCR220800034002 Page: 19 of 25

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low





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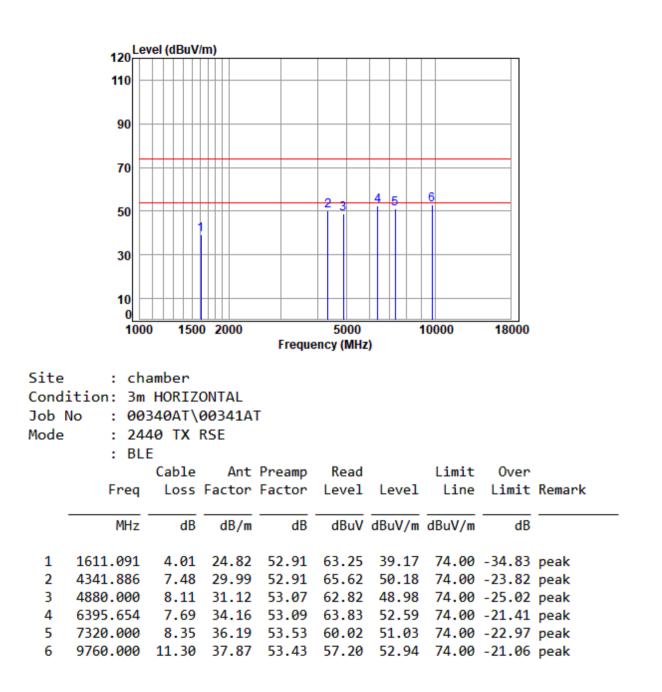
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 20 of 25

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle





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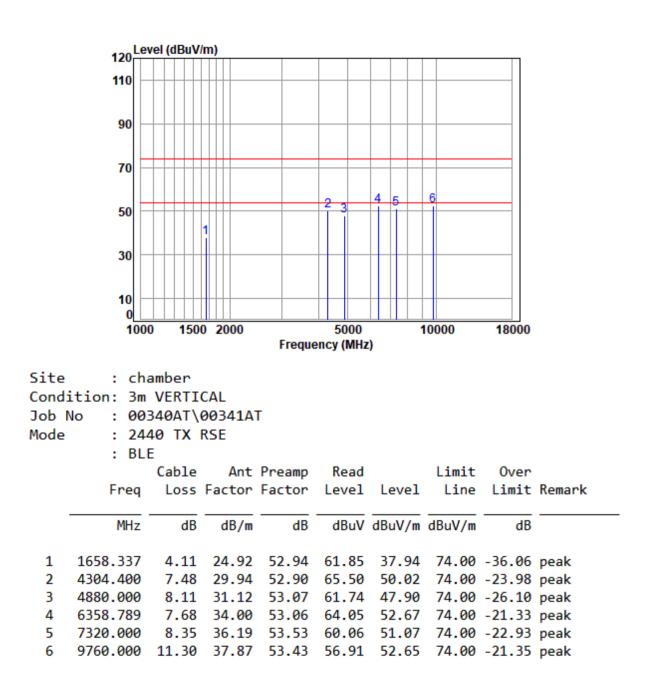
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 邮编: 518103
 t
 (86–755)
 88663988
 f
 (86–755)
 26710594
 www.sgsgroup.com.cn



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 21 of 25

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle





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 518103
 t
 (86-755)
 88663988
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 26710594
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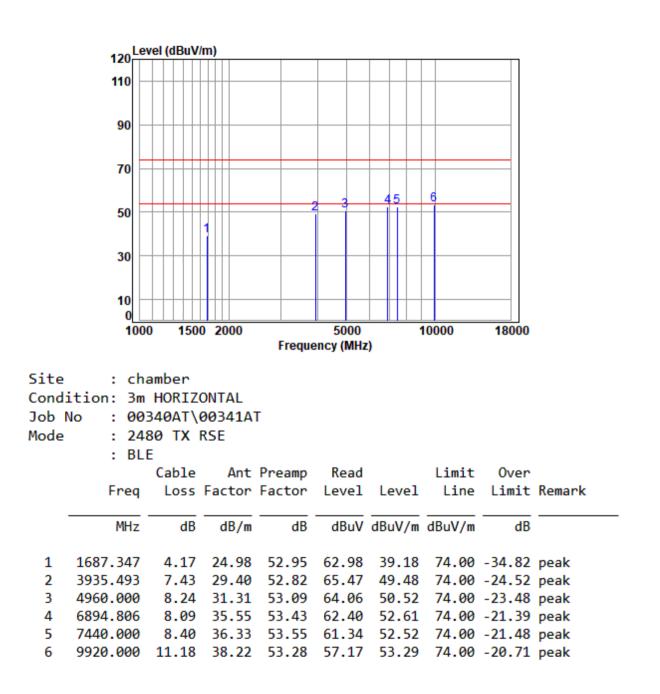
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 邮编: 518103
 t
 (86-755)
 88663988
 f
 (86-755)
 26710594
 sgs.china@sgs.com



SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 22 of 25

Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High





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 518103
 t
 (86–755)
 88663988
 f
 (86–755)
 26710594
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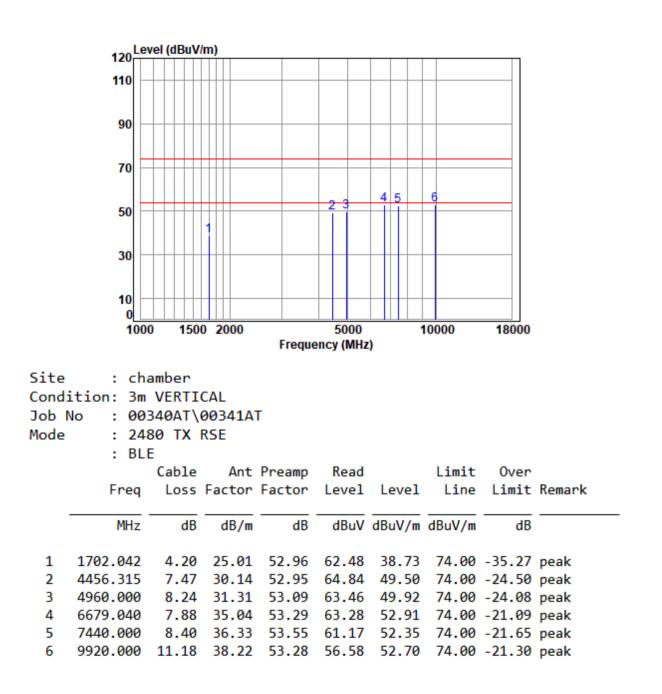
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 t
 (86–755)
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 f
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 23 of 25

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 (86–755)
 88663988
 f
 (86–755)
 26710594
 www.sgsgroup.com.cn

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 t
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 f
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 24 of 25

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2208000340AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2208000340AT.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034002 Page: 25 of 25

9 Appendix

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

Mode	TX Frequency		Maximum Peak Conducted Output Power (dBm)		Vordict
	Туре	(MHz)	ANT1	Limit	Verdict
	SISO	2402	0.72	<=30	Pass
1M		2440	-0.05	<=30	Pass
		2480	-0.90	<=30	Pass

- End of the Report -



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