

TEST REPORT

Applicant Name : Address : Report Number : FCC ID:

Grandstream Networks, Inc. 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA SZ1220907-40581E-EM-00 YZZGWN7802P

Test Standard (s) FCC PART 15B, CLASS A

Sample Description

Product Type:	Enterprise Layer 2+ Managed Network Switch
Model No.:	GWN7802P
Trade Mark:	GRANDSTREAM
Date Received:	2022-09-07
Date of Test:	2022-09-08 to 2022-09-15
Report Date:	2022-09-22

Test Result:

Pass*

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

Prepared and Checked By:

Zeki Ma

Zeki Ma **EMC Engineer**

Approved By:

Candy . Li

Candy Li **EMC Engineer**

Web: www.atc-lab.com

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*".

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Shenzhen Accurate Technology Co., Ltd.

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FCC-EMC

Version 1 2021-11-09

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Test Report Declaration

Applicant	:	Grandstream Networks, Inc.
Manufacturer	:	Grandstream Networks, Inc.
Product	:	Enterprise Layer 2+ Managed Network Switch
Model No.	:	GWN7802P
Trade Mark	:	GRANDSTREAM

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class A ANSI C63.4-2014

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class A limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Conducted Emission (150kHz-30MHz)	FCC Part 15 Subpart B, Section 15.107	Pass
Radiated Emission (30-1000MHz)	FCC Part 15 Subpart B, Section 15.109	Pass
Radiated Emission (Above 1GHz)	FCC Part 15 Subpart B, Section 15.109	Pass

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product	: Enterprise Layer 2+ Managed Network Switch
Model No.	: GWN7802P
Rating	: AC 100-240V, 50-60Hz
Remark(s)	: The EUT highest operating frequency is 500MHz, the radiated emission measurement shall be made up to 2.0GHz
Applicant Address	 Grandstream Networks, Inc. 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Manufacturer Address	 Grandstream Networks, Inc. 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Sample Number	: SZ1220907-40581E-EM-S1
Note	: This product can configure with three different power module, G0591, RB260W04 and UES267-SPA-M2-0P.

2.2.Test mode

Test mode 1: System operation with Full load (G0591) Test mode 2: System operation with Full load (RB260W04) Test mode 3: System operation with Full load (UES267-SPA-M2-0P) Note: Configure the software flow through the debugging port

2.3.General disclaimer

1. Each test item follows test standard and with no deviation.

2. The test results presented in this report relate only to the object tested. The information supplied by the customer can affect the validity of results.

2.4. Accessory and Auxiliary Equipment and Cables

POE Load plate	:	GWN78XX_POE_LOAD_V1.0A
Network cable	:	Network cable length 150 cm
Optical fiber	:	Optical fiber length 250 cm
Play flow software		JPERF 2.0.0
software version		1.7.0

2.5.Description of Test Facility

Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

2.6.Measurement Uncertainty

Conduction Emission Expanded Uncertainty (150kHz-30MHz)	:	U=2.72dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	:	U=4.28dB, k=2
Radiated emission expanded uncertainty (1GHz-18GHz)	:	U=4.98dB, k=2

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1.For Conducted E	mission Test
---------------------	--------------

Item	Equipment	Manufacturer	Model No.	Serial No		Calibration Due Date
1.	EMI Test Receiver	Rohde& Schwarz	ESCI	100784	2021/12/13	2022/12/12
2.	L.I.S.N.	Rohde& Schwarz	ENV216	101314	2021/12/13	2022/12/12
3.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	2021/12/13	2022/12/12
4.	RF Coaxial Cable	Unknown	No.17	N0350	2021/12/14	2022/12/13
5.	Conducted Emission Test Software: e3 19821b (V9)					

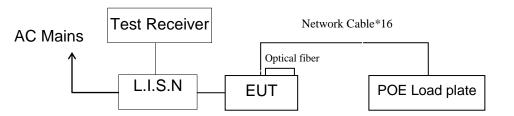
3.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1.	Test Receiver	Rohde& Schwarz	ESR	102725	2021/12/13	2022/12/12
2.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101949	2021/12/13	2022/12/12
3.	Amplifier	SONOMA INSTRUMENT	310 N	186131	2021/11/09	2022/11/08
4.	Preamplifier	A.H. Systems, inc.	PAM-0118P	135	2021/11/09	2022/11/08
5.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2021/07/06	2024/07/05
6.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-106 7	2020/01/05	2023/01/04
7.	RF Coaxial Cable	Unknown	No.10	N050	2021/12/14	2022/12/13
8.	RF Coaxial Cable	Unknown	No.11	N1000	2021/12/14	2022/12/13
9.	RF Coaxial Cable	Unknown	No.12	N040	2021/12/14	2022/12/13
10.	RF Coaxial Cable	Unknown	No.13	N300	2021/12/14	2022/12/13
11.	RF Coaxial Cable	Unknown	No.14	N800	2021/12/14	2022/12/13
12.	Radiated Emission Test Software: e3 19821b (V9)					

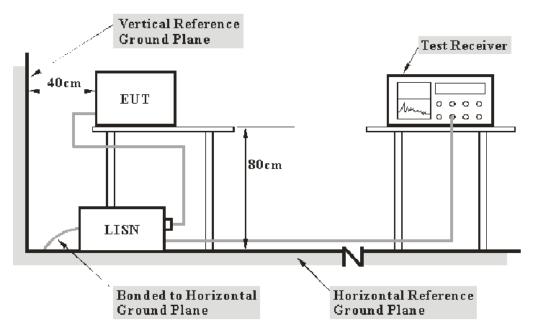
4. CONDUCTED EMISSION MEASUREMENT

4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators



4.1.2.Test System Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

4.2. Power Line Conducted Emission Measurement Limits (Class A)

Frequency	Limit dB(µV)				
(MHz)	Quasi-peak Level	Average Level			
0.15 - 0.50	79.0	66.0			
0.50 - 30.00	73.0	60.0			
NOTE1: The lower limit shall apply at the transition frequencies.					

4.3.Test mode description

Test mode 1: System operation with Full load (G0591) Test mode 2: System operation with Full load (RB260W04) Test mode 3: System operation with Full load (UES267-SPA-M2-0P)

4.3.1. Environmental Conditions

Temperature	:	25 °C
Relative Humidity	:	43%
ATM Pressure	:	101 kPa

The testing was performed by Jason Liu on 2022-09-08.

4.4.Manufacturer

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.4.1.Enterprise Layer 2+ Managed Network Switch (EUT)

Model Number : GWN7802P Manufacturer : Grandstream Networks, Inc.

4.5. Operating Condition of EUT

4.5.1.Setup the EUT and simulator as shown as Section 4.1.

4.5.2. Turn on the power of all equipments.

4.5.3.Let the EUT work in test mode and measure it.

4.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

4.7.Data Explain

Over limit = Level (dB μ V) - Limit (dB μ V)

4.8. Power Line Conducted Emission Measurement Results

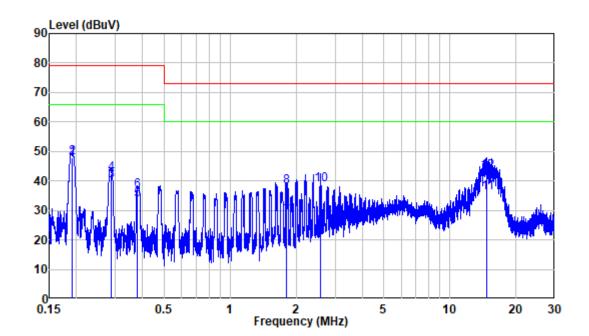
PASS.

The frequency range from 150kHz to 30MHz is checked.

All data was recorded in the Quasi-peak and average detection mode.

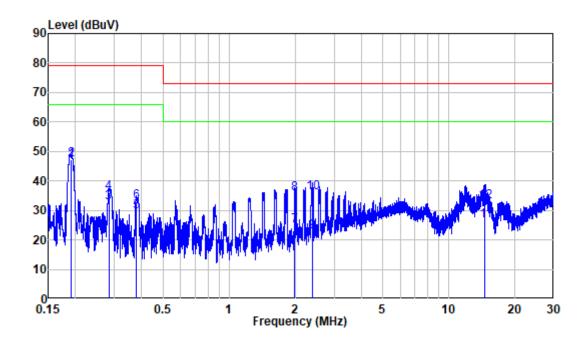
The spectral diagrams are attached as below.

Test mode1:



Site	:	Shielding Room
Condition	1:	Line
Job No.	:	SZ1220907-40581E-00
Mode	:	System operation with Full load
Note	:	GØ591

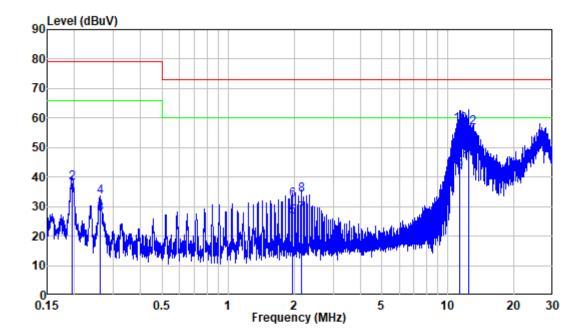
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.190	9.80	37.72	47.52	66.00	-18.48	Average
2	0.190	9.80	38.04	47.84	79.00	-31.16	QP
3	0.289	9.80	30.34	40.14	66.00	-25.86	Average
4	0.289	9.80	32.56	42.36	79.00	-36.64	QP
5	0.379	9.80	23.90	33.70	66.00	-32.30	Average
6	0.379	9.80	26.88	36.68	79.00	-42.32	QP
7	1.795	9.82	17.98	27.80	60.00	-32.20	Average
8	1.795	9.82	28.27	38.09	73.00	-34.91	QP
9	2.577	9.83	14.71	24.54	60.00	-35.46	Average
10	2.577	9.83	28.75	38.58	73.00	-34.42	QP
11	14.740	9.95	26.13	36.08	60.00	-23.92	Average
12	14.740	9.95	33.17	43.12	73.00	-29.88	QP



Shielding Room
Neutral
SZ1220907-40581E-00
System operation with Full load
G0591

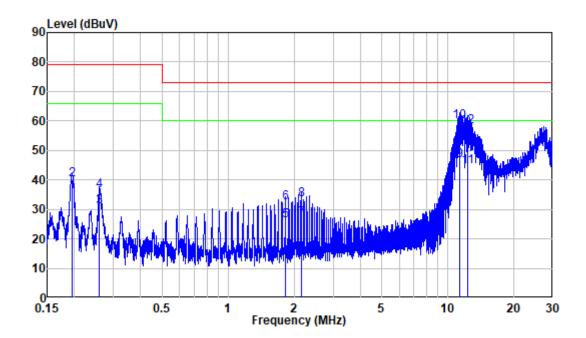
			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.190	9.80	37.17	46.97	66.00	-19.03	Average
2	0.190	9.80	37.54	47.34	79.00	-31.66	QP
3	0.283	9.80	22.81	32.61	66.00	-33.39	Average
4	0.283	9.80	26.09	35.89	79.00	-43.11	QP
5	0.379	9.80	19.85	29.65	66.00	-36.35	Average
6	0.379	9.80	23.28	33.08	79.00	-45.92	QP
7	1.991	9.82	14.94	24.76	60.00	-35.24	Average
8	1.991	9.82	25.73	35.55	73.00	-37.45	QP
9	2.390	9.82	13.01	22.83	60.00	-37.17	Average
10	2.390	9.82	26.26	36.08	73.00	-36.92	QP
11	14.585	10.05	16.58	26.63	60.00	-33.37	Average
12	14.585	10.05	22.89	32.94	73.00	-40.06	QP

Test mode 2:



Site	:	Shielding Room
Condition	1:	Line
Job No.	:	SZ1220907-40581E-00
Mode	:	System operation with Full load
Note	:	RB260W04

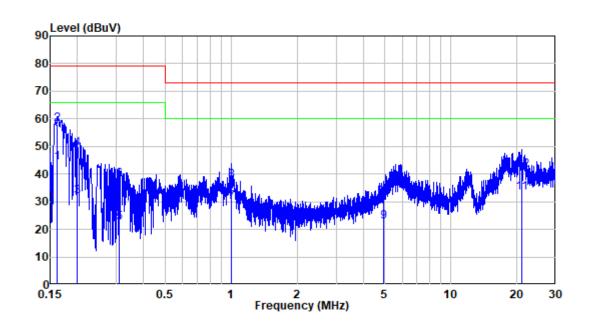
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.195	9.80	23.69	33.49	66.00	-32.51	Average
2	0.195	9.80	28.24	38.04	79.00	-40.96	QP
3	0.261	9.80	17.56	27.36	66.00	-38.64	Average
4	0.261	9.80	23.54	33.34	79.00	-45.66	QP
5	1.954	9.82	16.60	26.42	60.00	-33.58	Average
6	1.954	9.82	22.44	32.26	73.00	-40.74	QP
7	2.148	9.82	17.72	27.54	60.00	-32.46	Average
8	2.148	9.82	24.18	34.00	73.00	-39.00	QP
9	11.332	9.91	31.87	41.78	60.00	-18.22	Average
10	11.332	9.91	47.82	57.73	73.00	-15.27	QP
11	12.433	9.92	34.86	44.78	60.00	-15.22	Average
12	12.433	9.92	46.80	56.72	73.00	-16.28	QP



Site	:	Shielding Room
Condition	1:	Neutral
Job No.	:	SZ1220907-40581E-00
Mode	:	System operation with Full load
Note	:	RB260W04

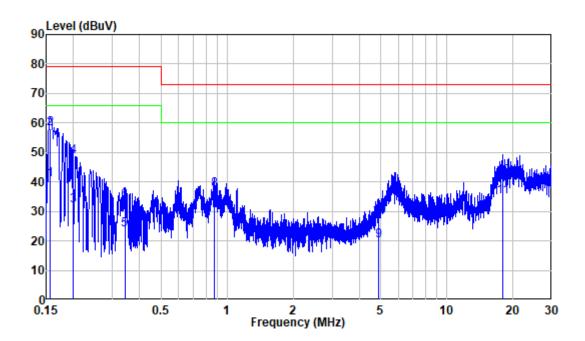
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.195	9.80	26.16	35.96	66.00	-30.04	Average
2	0.195	9.80	30.17	39.97	79.00	-39.03	QP
3	0.260	9.80	21.01	30.81	66.00	-35.19	Average
4	0.260	9.80	26.59	36.39	79.00	-42.61	QP
5	1.820	9.82	16.41	26.23	60.00	-33.77	Average
6	1.820	9.82	22.44	32.26	73.00	-40.74	QP
7	2.148	9.82	17.04	26.86	60.00	-33.14	Average
8	2.148	9.82	23.34	33.16	73.00	-39.84	QP
9	11.257	10.01	36.43	46.44	60.00	-13.56	Average
10	11.257	10.01	49.79	59.80	73.00	-13.20	QP
11	12.237	10.02	34.48	44.50	60.00	-15.50	Average
12	12.237	10.02	47.89	57.91	73.00	-15.09	QP

Test mode 3:



Site	:	Shielding Room
Condition	1 :	Line
Job No.	:	SZ1220907-40581E-00
Mode	:	System operation with Full load
Note	:	UES267-SPA-M2-0P

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.162	9.80	34.29	44.09	66.00	-21.91	Average
2	0.162	9.80	48.35	58.15	79.00	-20.85	QP
3	0.200	9.80	22.22	32.02	66.00	-33.98	Average
4	0.200	9.80	39.50	49.30	79.00	-29.70	QP
5	0.308	9.80	12.75	22.55	66.00	-43.45	Average
6	0.308	9.80	28.18	37.98	79.00	-41.02	QP
7	1.004	9.81	20.07	29.88	60.00	-30.12	Average
8	1.004	9.81	27.88	37.69	73.00	-35.31	QP
9	4.939	9.85	12.94	22.79	60.00	-37.21	Average
10	4.939	9.85	21.98	31.83	73.00	-41.17	QP
11	20.910	10.01	23.31	33.32	60.00	-26.68	Average
12	20.910	10.01	31.35	41.36	73.00	-31.64	QP



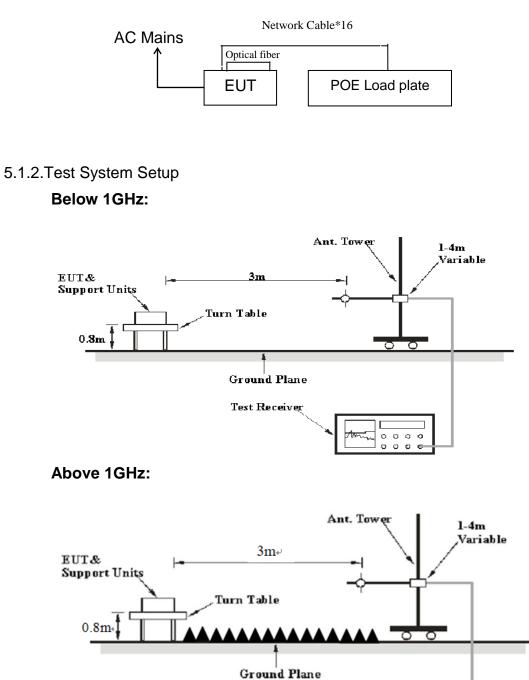
Site	:	Shielding Room
Condition	n:	Neutral
Job No.	:	SZ1220907-40581E-00
Mode	:	System operation with Full load
Note	:	UES267-SPA-M2-0P

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.80	31.05	40.85	66.00	-25.15	Average
2	0.156	9.80	48.36	58.16	79.00	-20.84	QP
3	0.200	9.80	22.20	32.00	66.00	-34.00	Average
4	0.200	9.80	38.66	48.46	79.00	-30.54	QP
5	0.342	9.80	13.94	23.74	66.00	-42.26	Average
6	0.342	9.80	23.98	33.78	79.00	-45.22	QP
7	0.876	9.81	20.37	30.18	60.00	-29.82	Average
8	0.876	9.81	27.68	37.49	73.00	-35.51	QP
9	4.890	9.89	10.23	20.12	60.00	-39.88	Average
10	4.890	9.89	18.45	28.34	73.00	-44.66	QP
11	17.897	10.08	24.83	34.91	60.00	-25.09	Average
12	17.897	10.08	31.86	41.94	73.00	-31.06	QP -

5. RADIATED EMISSION MEASUREMENT

5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



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Test Receiver

5.2.Radiated Emission Limit (Class A)

All emanations from a class A device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Below 1GHz:

Frequency	Distance	Field Strengths Limit		
MHz	Meters	dB(µV/m)		
30-88	3	49.54		
88-216	3	53.98		
216-960	3	56.9		
960-1000	3	60.0		

Remark:

(1) Emission level dB(μ V) = 20 log Emission level μ V/m.

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

Above 1GHz:

Frequency	Distance	Field Strengths Limit(dBµV/m)		
MHz	Meters	Peak	Average	
Above 1000MHz	3	80.0	60.0	

5.3.Test mode description

Test mode 1: System operation with Full load (G0591) Test mode 2: System operation with Full load (RB260W04) Test mode 3: System operation with Full load (UES267-SPA-M2-0P)

5.3.1.Environmental Conditions

Temperature:24 °CRelative Humidity:60 %ATM Pressure:101 kPa

The testing was performed by Level Li on 2022-09-15.

5.4.Manufacturer

The following equipments are installed on Radiated Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.1.Enterprise Layer 2+ Managed Network Switch (EUT)

Model Number	: GWN7802P
Manufacturer	: Grandstream Networks, Inc.

5.5.Operating Condition of EUT

5.5.1.Setup the EUT and simulator as shown as Section 5.1.

5.5.2.Turn on the power of all equipments.

5.5.3.Let the EUT work in test mode and measure it.

5.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the Receiver is set at 9kHz in 9kHz-30MHz, 120 kHz in 30-1000MHz, and 1MHz for above 1GHz.

The frequency range from 30MHz to 2GHz is investigated.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	 30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

5.7.Data Sample

Over Limit (dB) = Level(dB μ v/m) - Limit (dB μ v/m) QP = Quasi-peak Reading

The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over Limit of -7dB means the emission is 7dB below the limit.

5.8.Radiated Emission Measurement Result

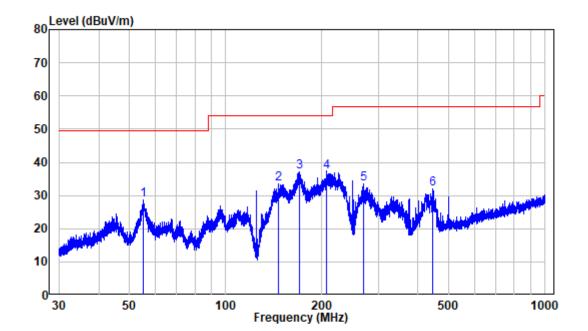
PASS.

The frequency range from 30MHz to 2GHz is investigated.

The spectral diagrams are attached as below.

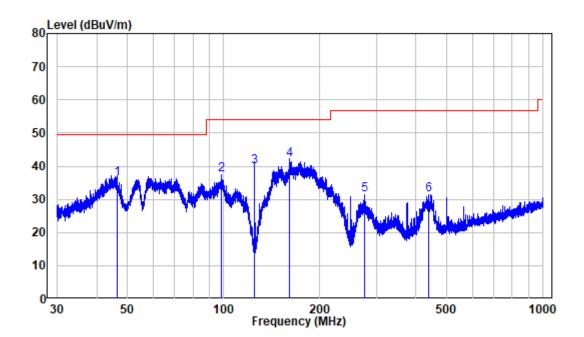
Version 1 2021-11-09

Test mode 1:



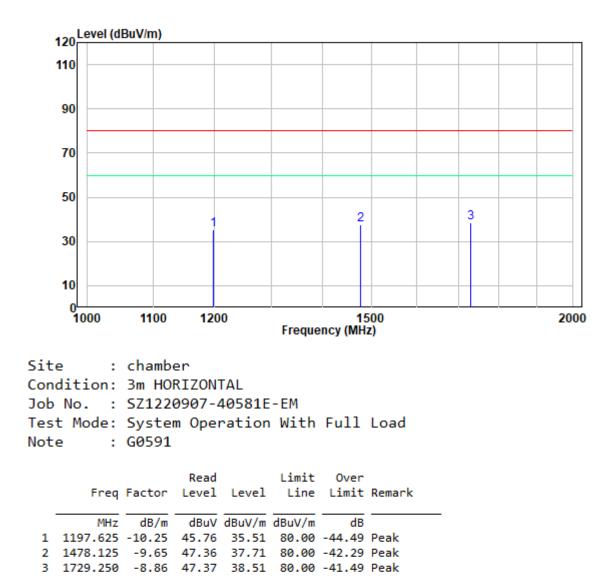
Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZ1220907-40581E-EM
Test Mode:	System Operation With Full Load
Note :	G0591

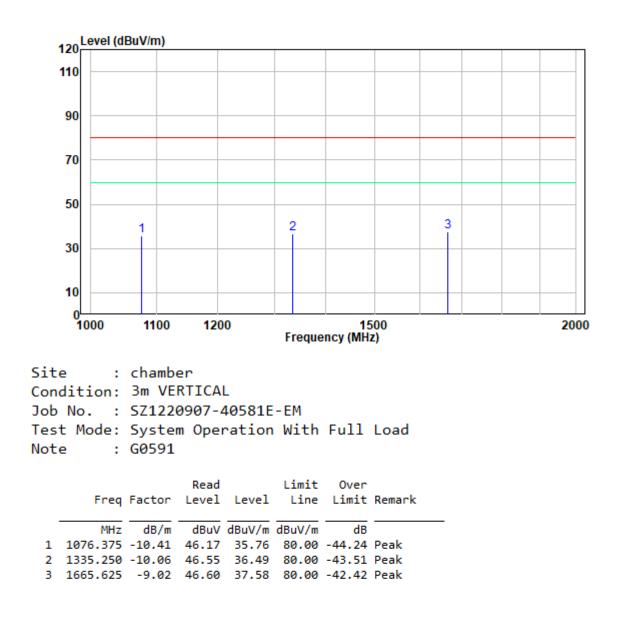
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	55.100	-10.28	38.97	28.69	49.54	-20.85	Peak
2	146.309	-15.48	48.94	33.46	53.98	-20.52	Peak
3	170.568	-13.52	50.66	37.14	53.98	-16.84	Peak
4	207.304	-11.85	49.01	37.16	53.98	-16.82	QP
5	270.849	-10.18	43.69	33.51	56.90	-23.39	Peak
6	444.851	-5.64	37.71	32.07	56.90	-24.83	Peak



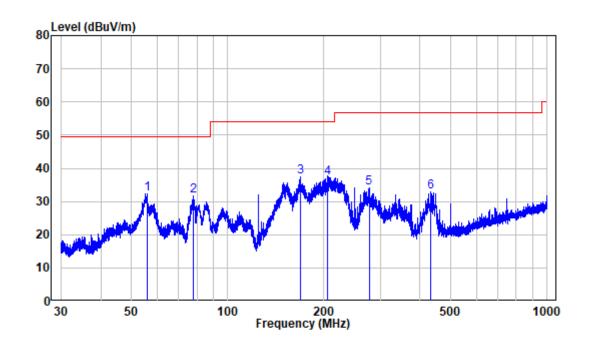
Site : chamber Condition: 3m VERTICAL Job No. : SZ1220907-40581E-EM Test Mode: System Operation With Full Load Note : G0591

	Freq	Factor		Level			Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	46.401	-10.00	46.30	36.30	49.54	-13.24	QP
2	98.573	-12.12	49.52	37.40	53.98	-16.58	Peak
3	125.007	-14.31	54.20	39.89	53.98	-14.09	QP
4	161.050	-14.24	56.10	41.86	53.98	-12.12	QP
5	276.124	-9.83	41.21	31.38	56.90	-25.52	Peak
6	438.079	-5.67	37.03	31.36	56.90	-25.54	Peak



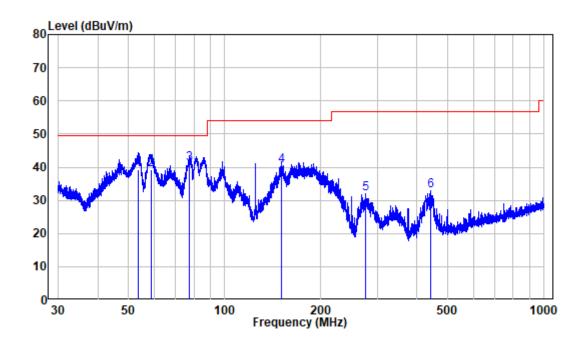


Test mode 2:



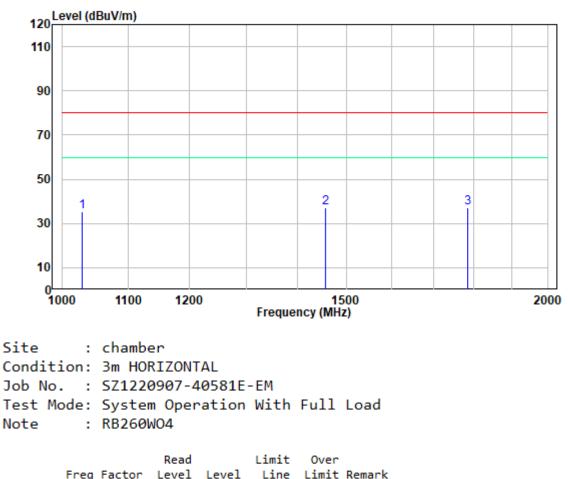
Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZ1220907-40581E-EM
Test Mode:	System Operation With Full Load
Note :	RB260W04

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	55.854	-10.20	42.54	32.34	49.54	-17.20	Peak
2	78.207	-16.62	48.26	31.64	49.54	-17.90	Peak
3	169.005	-13.68	51.03	37.35	53.98	-16.63	Peak
4	205.856	-11.84	49.11	37.27	53.98	-16.71	QP
5	276.972	-9.77	44.00	34.23	56.90	-22.67	Peak
6	432.735	-5.74	38.61	32.87	56.90	-24.03	Peak

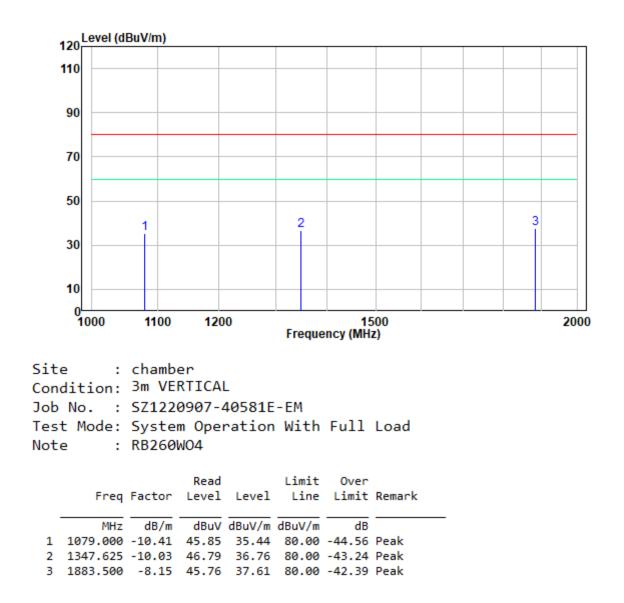


Site :	chamber
Condition:	3m VERTICAL
Job No. :	SZ1220907-40581E-EM
Test Mode:	System Operation With Full Load
Note :	RB260W04

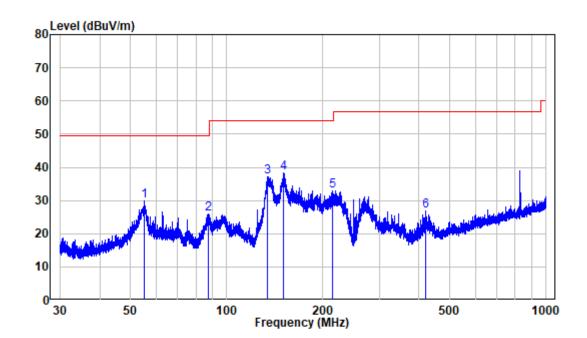
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	53.412	-10.24	49.40	39.16	49.54	-10.38	QP
2	58.793	-10.19	49.30	39.11	49.54	-10.43	QP
3	77.695	-16.58	57.50	40.92	49.54	-8.62	QP
4	150.868	-15.22	55.60	40.38	53.98	-13.60	QP
5	276.851	-9.78	41.65	31.87	56.90	-25.03	Peak
6	440.776	-5.64	38.63	32.99	56.90	-23.91	Peak



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	MHz			dBuV/m	dBuV/m	dB	
1	1029.375						Peak
2	1455.750	-9.72	46.66	36.94	80.00	-43.06	Peak
3	1784.000	-8.78	46.03	37.25	80.00	-42.75	Peak

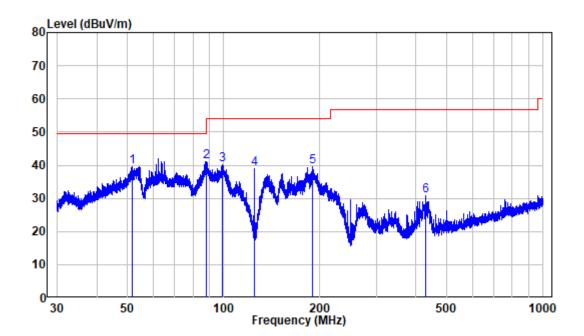


Test mode 3:



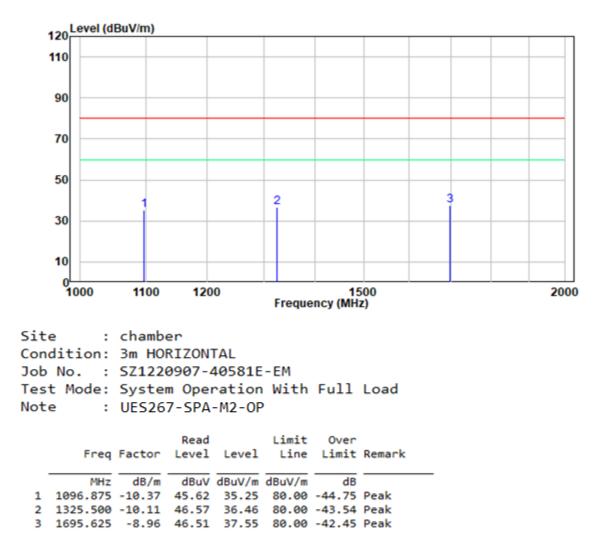
Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZ1220907-40581E-EM
Test Mode:	System Operation With Full Load
Note :	UES267-SPA-M2-OP

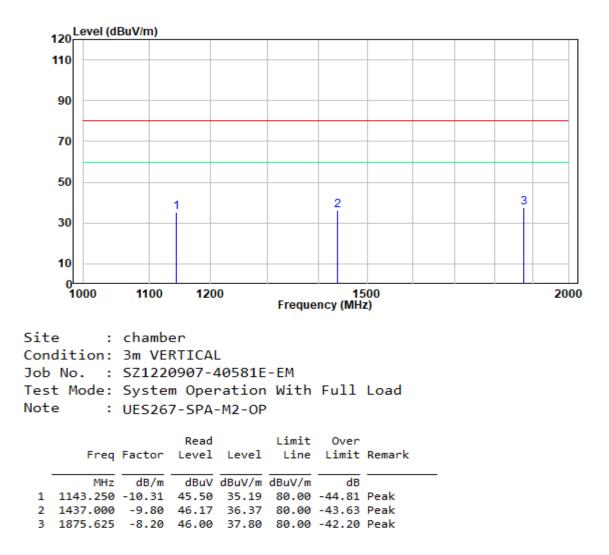
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	55.245	-10.26	40.26	30.00	49.54	-19.54	Peak
2	87.686	-14.66	40.64	25.98	49.54	-23.56	Peak
3	134.206	-14.98	52.03	37.05	53.98	-16.93	Peak
4	150.274	-15.26	53.52	38.26	53.98	-15.72	Peak
5	214.797	-11.68	44.55	32.87	53.98	-21.11	Peak
6	420.212	-6.12	32.94	26.82	56.90	-30.08	Peak



Site :	chamber
Condition:	3m VERTICAL
Job No. :	SZ1220907-40581E-EM
Test Mode:	System Operation With Full Load
Note :	UES267-SPA-M2-OP

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.798	-9.97	49.44	39.47	49.54	-10.07	Peak
2	88.110	-14.53	55.61	41.08	53.98	-12.90	Peak
3	99.223	-11.97	52.13	40.16	53.98	-13.82	Peak
4	125.007	-14.31	53.31	39.00	53.98	-14.98	Peak
5	189.739	-11.62	51.13	39.51	53.98	-14.47	Peak
6	429.335	-5.80	36.44	30.64	56.90	-26.26	Peak





Note:

1) Level= Reading + Factor

2) Margin = Level–Limit

3) For below 1GHz testing, if the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Average measurement.

4) For above 1GHz testing, the test result of peak was 20dB below to the limit of peak,

which can be compliant to the average limit, so just peak value was recorded.

----- THE END OF TEST REPORT ------

Version 1 2021-11-09