



TEST REPORT

Applicant Name : Grandstream Networks, Inc.

Address: 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

Manufacturer Name : Grandstream Networks, Inc.

Address: 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

Report Number: SZ1210914-52933E-RFC

FCC ID: YZZGAC2570 IC: 11964A-GAC2570

Test Standard (s)

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247, ISSUE 2,

FEBRUARY 2017

Sample Description

Product Type: Enterprise Conference Phone

Model No.: GAC2570

Multiple Model(s) No.: N/A

Trade Mark: GRANDSTREAM
Date Received: 2021/09/14
Report Date: 2022/03/29

Test Result: Pass*

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

Prepared and Checked By:

Approved By:

Ting Lü

Candy Li

EMC Engineer

EMC Engineer

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

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	GAC2570
FVIN	1.0.1.31
Frequency Range	2402-2480MHz
Maximum Conducted Peak Output Power	3.74dBm
Modulation Technique	GFSK
Antenna Specification*	3.5dBi (It is provided by the manufacturer)
Voltage Range	DC 48V from POE
Sample serial number	SZ1210914-52933E-RF-S2 for Conducted and Radiated Emissions SZ1210914-52933E-RF-S1 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
POE information	Model: G0720-480-050 Input: AC 100-240V, 50/60Hz, 0.75A, MAX Output: DC 48V, 0.5A, 24.0W

Report No.: SZ1210914-52933E-RFC

Objective

This report is in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.247 rules and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017 of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance ANSI C63.10-2013, RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Para	meter	Uncertainty
Occupied Char	nnel Bandwidth	5%
RF Fre	equency	$0.082*10^{-7}$
RF output pov	wer, conducted	0.73dB
Unwanted Emi	ssion, conducted	1.6dB
AC Power Lines Conducted Emissions		2.72dB
	9kHz - 30MHz	2.66dB
.	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Radiated	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1℃
Hun	nidity	6%
Supply	voltages	0.4%

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Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

Frequency table:

Serial Number	Frequency	Serial Number	Frequency
1	2402	21	2442
2	2404	22	2444
3	2406	23	2446
4	2408	24	2448
5	2410	25	2450
6	2412	26	2452
7	2414	27	2454
8	2416	28	2456
9	2418	29	2458
10	2420	30	2460
11	2422	31	2462
12	2424	32	2464
13	2426	33	2466
14	2428	34	2468
15	2430	35	2470
16	2432	36	2472
17	2434	37	2474
18	2436	38	2476
19	2438	39	2478
20	2440	40	2480

EUT was tested with Channel 1, 20 and 40.

EUT Exercise Software

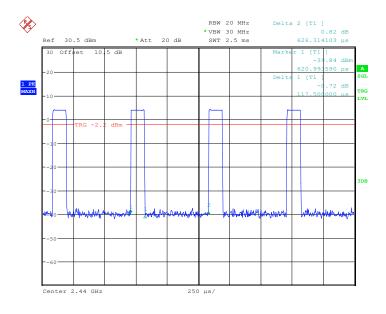
"NRF_DTM*" software was used and the power level is 3*. The software and power level was provided by the applicant.

Equipment Modifications

No modification was made to the EUT tested.

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Duty cycle



Date: 18.FEB.2022 14:47:47

Ton (ms)	Ton+off (ms)	Duty Cycle (%)
0.118	0.626	18.85

Support Equipment List and Details

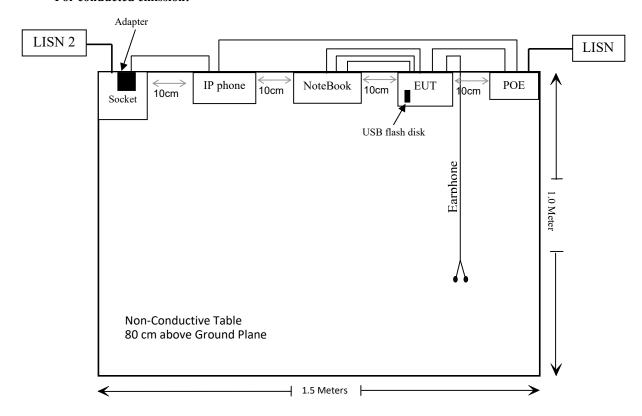
Manufacturer	Description	Model	Serial Number
DELL	Notebook	Latitude E6410	11429208685
Grandstream	IP phone	GXP2130	20EYZK2KA013E117
Sandisk	USB flash disk	Unknown	Unknown
Unknown	Earphone	Unknown Unknown	
GOSPELL	POE	G0720-480-050	G0720-480-050

External I/O Cable

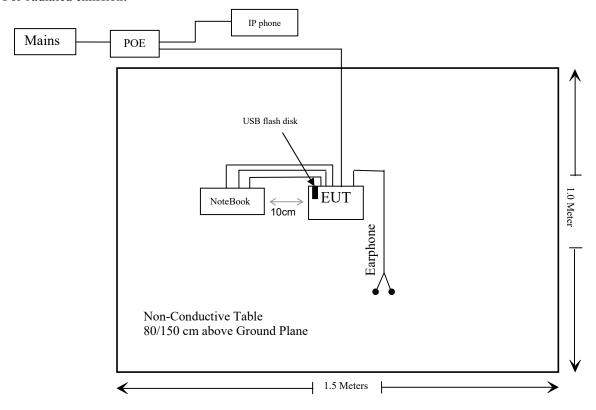
Cable Description	Length (m)	From Port	То
Un-shielded detachable AC cable	1.0	LISN	POE
Un-shielded detachable RJ45 cable	5.0	POE	EUT
Un-shielded detachable RJ45 cable	4.0	EUT	NoteBook
Un-shielded detachable RJ45 cable	4.0	POE	IP phone
Un-shielded detachable HDMI cable	2.0	EUT	NoteBook
Un-shielded detachable USB cable	2.5	EUT	NoteBook
Un-shielded detachable earphone cable	1.2	EUT	Earphone
Un-shielded un-detachable AC cable	1.0	Socket	LISN 2
Un-shielded un-detachable DC cable	1.5	IP phone	Adapter

Block Diagram of Test Setup

For conducted emission:



For radiated emission:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§15.247 (i), §1.1307(b) RSS-102 § 4	RF Exposure Limit	Compliant
FCC §15.203, RSS-GEN Clause 6.8	Antenna Requirement	Compliant
FCC §15.207 (a); RSS-Gen Clause 8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d); RSS-247 Clause 5.5 RSS-Gen Clause 8.10	Spurious Emissions	Compliant
FCC §15.247 (a)(2); RSS-247 Clause 5.2 a) RSS-Gen Clause 6.7	6 dB Bandwidth and 99% Occupied Bandwidth	Compliant
FCC §15.247(b)(3); RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliant
FCC §15.247(d); RSS-247 Clause 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(e) RSS-247 Clause 5.2 b)	Power Spectral Density	Compliant
FCC §15.247(d) RSS-247 § 5.5	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Conducted emission test						
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12	
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12	
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12	
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13	
Conducted Emission	Test Software: e3 198211	b (V9)				
	Radia	ted emission test	(Below 1GHz)		_	
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12	
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08	
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05	
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13	
Radiated Emission Te	est Software: e3 19821b ((V9)				
	Radia	ted emission test((Above 1GHz)			
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12	
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08	
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2021/11/11	2022/11/10	
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04	
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04	
Unknown	RF Coaxial Cable	No.10	N050	2021/12/25	2022/12/24	
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/25	2022/12/24	
Unknown	RF Coaxial Cable	No.15	N600	2021/12/25	2022/12/24	
Unknown	RF Coaxial Cable	No.16	N650	2021/12/25	2022/12/24	
Wainwright High Pass Filter WHKX3.6/18 G-10SS 5 2021/12/25 2022/12/24						
Radiated Emission Te	est Software: e3 19821b ((V9)				

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Manufacturer	Description Model		Serial Number	Calibration Date	Calibration Due Date
RF conducted test					
SPECTRUM ANALYZER	Rohde & Schwarz	FSU26	200982	2021/07/06	2022/07/05
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/24	2022/12/23
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Cable	Unknown	3	Each time	

^{*} Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307 (b) (3) – RF EXPOSURE

Applicable Standard

According to FCC §15.247(i) and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

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According to KDB 447498 D04 Interim General RF Exposure Guidance

SAR-Based Exemption:

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum timeaveraged power or maximum time-averaged ERP, whichever is greater.

Per § 1.1307(b)(3)(i)(B), for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \leq 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \leq 40\ \text{cm} \end{cases}$$
 Where
$$x = -\log_{10} \left(\frac{60}{ERP_{20\ cm} \sqrt{f}}\right) \text{ and } f \text{ is in GHz};$$
 and
$$ERP_{20\ cm} \text{ (mW)} = \begin{cases} 2040f & 0.3\ \text{GHz} \leq f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \leq f \leq 6\ \text{GHz} \end{cases}$$

$$d = \text{the separation distance (cm)};$$

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

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For worst case:

Mode	Frequency (MHz)	Tune up conducted power	Anten	na Gain	ERP		Evaluation Distance	Pth (mW)
	()	(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(//
BT	2402-2480	7.0	4.5	2.35	9.35	8.61	0.20	3060
BLE	2402-2480	6.5	4.5	2.35	8.85	7.67	0.20	3060
SRD	2402-2480	4.0	3.5	1.35	5.35	3.43	0.20	3060
2.4GHz Wi-Fi	2412-2462	26.0	6.0	3.85	29.85	966.05	0.20	3060
	5180-5240	19.5	5.0	2.85	22.35	171.79	0.20	3060
ECH W. E.	5260-5280	18.5	5.0	2.85	21.35	136.46	0.20	3060
5GHz Wi-Fi	5500-5700	17.5	5.0	2.85	20.35	108.39	0.20	3060
	5745-5825	20.0	5.0	2.85	22.85	192.75	0.20	3060

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Note: 1. The tune up conducted power was declared by the applicant.

Simultaneous transmitting consideration (worst case):

The ratio= $P_{BT}/Pth_{BT}+P_{Wi\text{-}Fi}/Pth_{Wi\text{-}Fi}$ =8.61/3060+966.05/3060=0.319<1.0, so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

^{2.} BT/SRD can transmit at same time with Wi-Fi, the 2.4G Wi-Fi cannot transmit at the same time with the 5G Wi-Fi, the BT cannot transmit at the same time with the SRD.

RSS-102 § 4 – EXPOSURE LIMITS

Applicable Standard

According to RSS-102 §4:

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m²)	Reference Period (minutes)
0.003-10 21	83	90	-	Instantaneous*
0.1-10	120	0.73/ f	-	6**
1.1-10	87/ f ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ f ^{0.25}	0.1540/ f ^{0.25}	8.944/ f ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 f ^{0.3417}	0.008335 f ^{0.3417}	0.02619 f ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ f ^{1.2}
150000-300000	0.158 f ^{0.5}	4.21 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻⁵ f	616000/f ^{1.2}

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Note: f is frequency in MHz.

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \leq 1$$

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Based on nerve stimulation (NS).

^{**} Based on specific absorption rate (SAR).

- M. I	Frequency	Antenna Gain		Turn up Power		Evaluation	Power	MPE Limit
Mode	(MHz)	(dBi)	(numeric)	(dBm)	(W)	Distance (m)	Density (W/m ²)	(W/m^2)
BT	2402-2480	4.5	2.82	7.0	0.0050	0.20	0.028	5.35
BLE	2402-2480	4.5	2.82	6.5	0.0045	0.20	0.025	5.35
SRD	2402-2480	3.5	2.24	4.0	0.0025	0.20	0.011	5.35
2.4GHz Wi-Fi	2412-2462	6.0	3.98	26.0	0.3981	0.20	3.154	5.37
	5180-5240	5.0	3.16	15.0	0.0316	0.20	0.199	9.05
5CH-Wi Ei	5260-5280	5.0	3.16	18.5	0.0708	0.20	0.445	9.14
5GHz Wi-Fi	5500-5700	5.0	3.16	17.5	0.0562	0.20	0.353	9.43
	5745-5825	5.0	3.16	20.0	0.1000	0.20	0.629	9.71

Simultaneous transmitting consideration (worst case):

The ratio=MPE_{BT}/limit+MPE_{2.4G Wi-Fi}/limit=0.028/5.35+3.154/5.37=0.593 < 1.0, so simultaneous exposure is compliant.

To maintain compliance with the ISEDC's RF exposure guidelines, place the equipment at least 23cm from nearby persons.

Result: Compliant.

Note: 1. The tune up conducted power was declared by the applicant.
2. BT/SRD can transmit at same time with Wi-Fi, the 2.4G Wi-Fi cannot transmit at the same time with the 5G Wi-Fi, the BT cannot transmit at the same time with the SRD.

FCC §15.203, RSS-GEN CLAUSE 6.8 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one internal antenna permanently attached to the unit, fulfill the requirement of this section. The antenna gain is 3.5 dBi. Please refer to the EUT photos.

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Antenna	Туре	Antenna Gain	Impedance
Amemia	Dipole	3.5dBi	50 Ω

Result: Compliant.

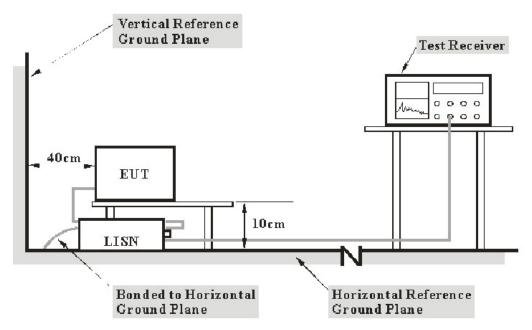
FCC §15.207 (a), RSS-GEN §8.8 - AC POWER LINE CONDUCTED EMISSIONS

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Applicable Standard

FCC§15.207(a). RSS-Gen§8.8.

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 10 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits and RSS-Gen limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W		
150 kHz – 30 MHz	9 kHz		

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

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

Test Results Summary

Test Procedure

According to the EUT complied with the FCC 15.207/RSS-Gen.

Corrected Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level - LimitLevel = Read Level + Factor

Test Data

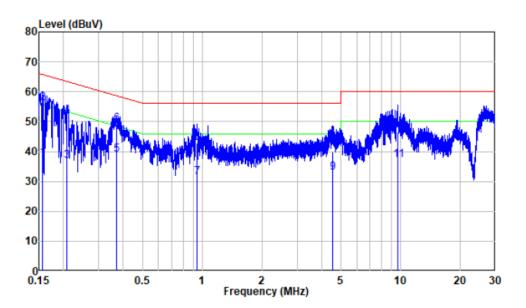
Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Bin Duan on 2022-02-28.

EUT operation mode: Transmitting (worst case is low channel)

AC 120V/60 Hz, Line

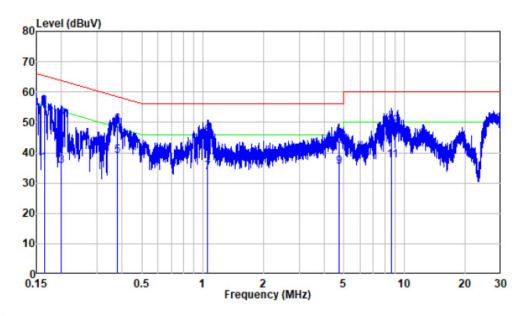


Site : Shielding Room

Condition: Line Mode : 2.4G SRD

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.80	28.01	37.81	55.66	-17.85	Average
2	0.156	9.80	46.39	56.19	65.66	-9.47	QP
3	0.208	9.80	27.08	36.88	53.30	-16.42	Average
4	0.208	9.80	42.11	51.91	63.30	-11.39	QP
5	0.370	9.80	29.10	38.90	48.50	-9.60	Average
6	0.370	9.80	39.45	49.25	58.50	-9.25	QP
7	0.944	9.81	21.59	31.40	46.00	-14.60	Average
8	0.944	9.81	32.99	42.80	56.00	-13.20	QP
9	4.537	9.85	23.10	32.95	46.00	-13.05	Average
10	4.537	9.85	30.10	39.95	56.00	-16.05	QP
11	9.679	9.90	27.31	37.21	50.00	-12.79	Average
12	9.679	9.90	36.55	46.45	60.00	-13.55	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room

Condition: Neutral Mode : 2.4G SRD

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.164	9.80	26.76	36.56	55.26	-18.70	Average
2	0.164	9.80	45.52	55.32	65.26	-9.94	QP
3	0.200	9.80	25.72	35.52	53.61	-18.09	Average
4	0.200	9.80	41.38	51.18	63.61	-12.43	QP
5	0.379	9.80	29.15	38.95	48.30	-9.35	Average
6	0.379	9.80	39.53	49.33	58.30	-8.97	QP
7	1.061	9.81	23.61	33.42	46.00	-12.58	Average
8	1.061	9.81	35.72	45.53	56.00	-10.47	QP
9	4.750	9.88	25.51	35.39	46.00	-10.61	Average
10	4.750	9.88	33.84	43.72	56.00	-12.28	QP
11	8.643	9.99	27.53	37.52	50.00	-12.48	Average
12	8.643	9.99	38.47	48.46	60.00	-11.54	QP

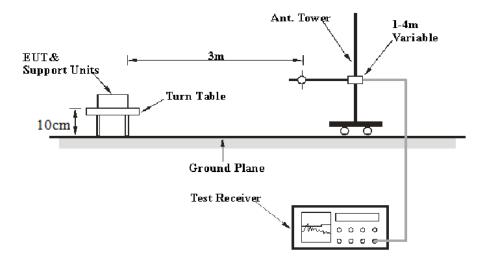
FCC §15.209, §15.205 & §15.247(D), RSS-GEN § 8.10 & RSS-247 § 5.5 – UNWANTED EMISSION FREQUENCIES AND RESTRICTED BANDS

Applicable Standard

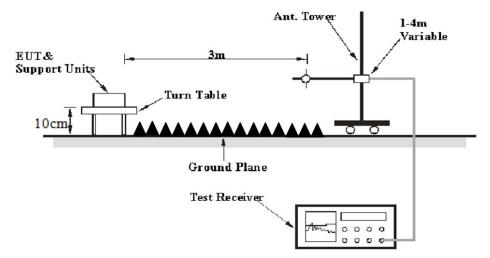
FCC §15.247 (d); §15.209; §15.205; RSS-247 §5.5, RSS-GEN §8.10.

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.205, FCC 15.209, FCC 15.247, RSS-Gen and RSS-247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP
	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz Note 1	/	Average
	1MHz	>1/T Note 2	/	Average

Report No.: SZ1210914-52933E-RFC

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit/Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Results Summary

According to the data in the following table, the EUT complied with the FCC 15.205, FCC 15.209, FCC 15.247, RSS-Gen and RSS-247.

Test Data

Environmental Conditions

Temperature:	19~25.8 ℃
Relative Humidity:	51~58 %
ATM Pressure:	101.0 kPa

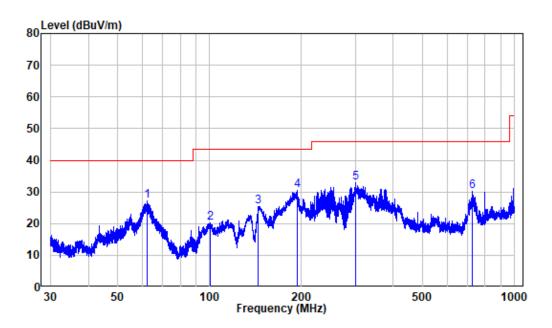
The testing was performed by Caro Hu on 2022-02-28.

EUT operation mode: Transmitting

30 MHz~1 GHz: (worst case is low channel)

Note: When the test result of peak was less than the limit of QP more than 6dB, just peak value were recorded.

Horizontal



Site : chamber

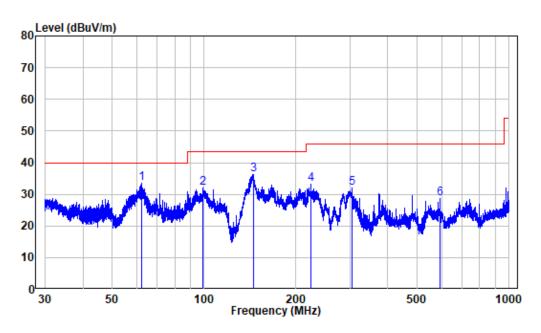
Condition: 3m HORIZONTAL

Job No. : SZ1210914-52933E-RF

Mode : 2.4G SRD

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	62.295	-19.92	47.19	27.27	40.00	-12.73	Peak
2	100.185	-19.16	39.43	20.27	43.50	-23.23	Peak
3	144.398	-21.79	47.27	25.48	43.50	-18.02	Peak
4	193.603	-19.76	50.15	30.39	43.50	-13.11	Peak
5	300.894	-16.60	49.47	32.87	46.00	-13.13	Peak
6	726.168	-11.35	41.48	30.13	46.00	-15.87	Peak

Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : SZ1210914-52933E-RF

Mode : 2.4G SRD

			Read		Limit	0ver		
	Freq	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	62.486	-19.96	53.32	33.36	40.00	-6.64	Peak	
2	98.963	-19.39	51.33	31.94	43.50	-11.56	Peak	
3	144.651	-21.78	57.92	36.14	43.50	-7.36	Peak	
4	224.224	-18.95	52.15	33.20	46.00	-12.80	Peak	
5	305.145	-16.63	48.69	32.06	46.00	-13.94	Peak	
6	593.050	-10.93	39.58	28.65	46.00	-17.35	Peak	

Above 1GHz:

Frequency	Receiver		Turntable Angle	Rx Aı	ntenna	Factor	Absolute Level	Limit	Margin		
(MHz)	Reading (dBuV)	PK/AV	Degree	Height (m)	Polar (H/V)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	Low Channel										
2310	67.98	PK	158	1.2	Н	-7.24	60.74	74	-13.26		
2310	53.67	AV	158	1.2	Н	-7.24	46.43	54	-7.57		
2310	68.68	PK	327	1.6	V	-7.24	61.44	74	-12.56		
2310	53.57	AV	327	1.6	V	-7.24	46.33	54	-7.67		
2390	70.89	PK	50	2.5	Н	-7.22	63.67	74	-10.33		
2390	54.13	AV	50	2.5	Н	-7.22	46.91	54	-7.09		
2390	70.71	PK	46	2.4	V	-7.22	63.49	74	-10.51		
2390	54.12	AV	46	2.4	V	-7.22	46.90	54	-7.10		
4804	60.21	PK	5	2.4	Н	-3.51	56.7	74	-17.30		
4804	55.35	AV	5	2.4	Н	-3.51	51.84	54	-2.16		
4804	56.21	PK	232	1.3	V	-3.51	52.7	74	-21.30		
				Middle C	Channel						
4880	60.58	PK	42	1.7	Н	-3.38	57.2	74	-16.80		
4880	55.19	AV	42	1.7	Н	-3.38	51.81	54	-2.19		
4880	56.59	PK	126	1.1	V	-3.38	53.21	74	-20.79		
				High Cl	nannel						
2483.5	69.97	PK	289	1.5	Н	-7.2	62.77	74	-11.23		
2483.5	54.95	AV	289	1.5	Н	-7.2	47.75	54	-6.25		
2483.5	69.39	PK	73	1.9	V	-7.2	62.19	74	-11.81		
2483.5	55.06	AV	73	1.9	V	-7.2	47.86	54	-6.14		
2500	68.31	PK	175	1.1	Н	-7.18	61.13	74	-12.87		
2500	55.55	AV	175	1.1	Н	-7.18	48.37	54	-5.63		
2500	69.08	PK	76	2.4	V	-7.18	61.9	74	-12.10		
2500	55.55	AV	76	2.4	V	-7.18	48.37	54	-5.63		
4960	59.81	PK	175	1.7	Н	-3.01	56.80	74	-17.20		
4960	54.93	PK	175	1.7	Н	-3.01	51.92	54	-2.08		
4960	56.06	AV	132	1.8	V	-3.01	53.05	74	-20.95		

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

The other spurious emission which is 20dB to the limit or in noise floor was not recorded.

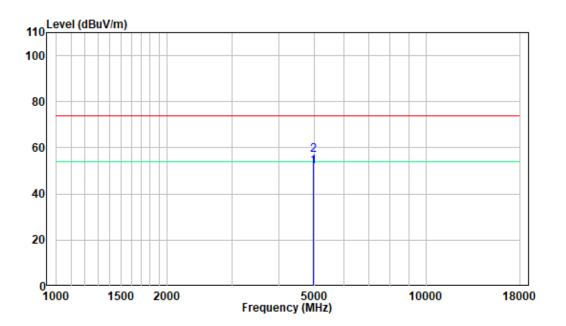
When the test result of peak was less than the limit of average, just peak value were recorded.

For simultaneously transmit condition, please refer to U-NII report.

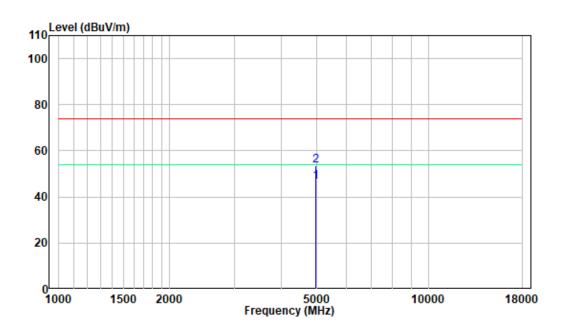
1 GHz - 18 GHz: (Pre-Scan plots)

Low channel

Horizontal



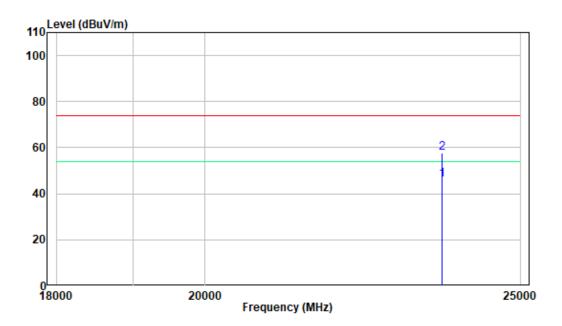
Vertical



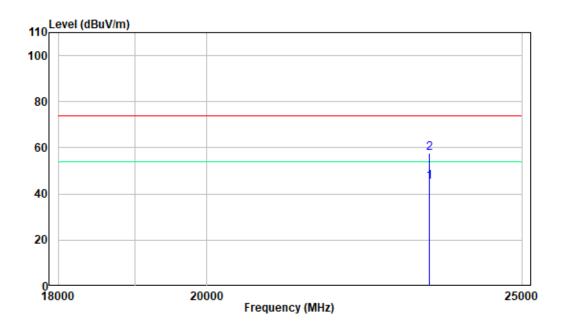
18-25GHz: (Pre-Scan plots)

Low channel

Horizontal



Vertical



FCC §15.247(a) (2), RSS-GEN § 6.7 & RSS-247 § 5.2 (a) – 99% OCCUPIED BANDWIDTH & 6 dB EMISSON BANDWIDTH

Report No.: SZ1210914-52933E-RFC

Standard Applicable

According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

According to RSS-247 §5.2 a)

The minimum 6 dB bandwidth shall be 500 kHz.

According to RSS-Gen §6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

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Test Procedure

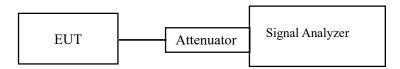
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Report No.: SZ1210914-52933E-RFC

- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

99% Occupied bandwidth test:

Use Occupied bandwidth test function, measure the 99% Occupied bandwidth. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	26.5 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-02-18 and 2022-03-28.

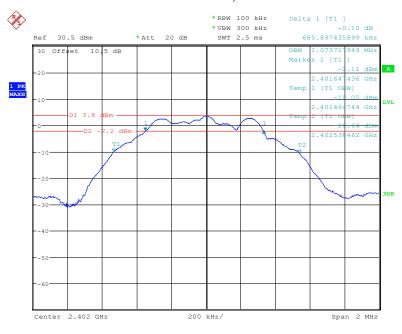
Test Mode: Transmitting

Test Result: Pass.

Please refer to the following tables and plots.

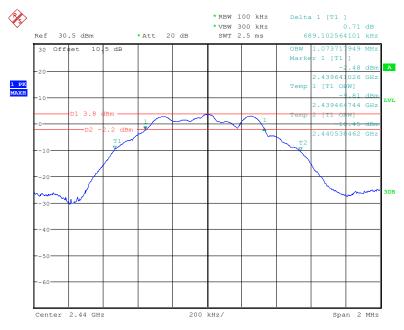
Channel	Frequency (MHz)	6 dB Emission Bandwidth (kHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
Low	2402	685.90	1.051	≥500
Middle	2440	689.10	1.055	≥500
High	2480	695.51	1.055	≥500

6dB Bandwidth, Low Channel



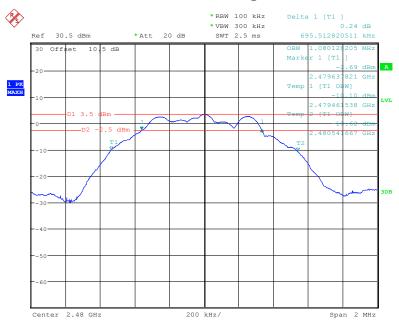
Date: 18.FEB.2022 14:34:35

6dB Bandwidth, Middle Channel



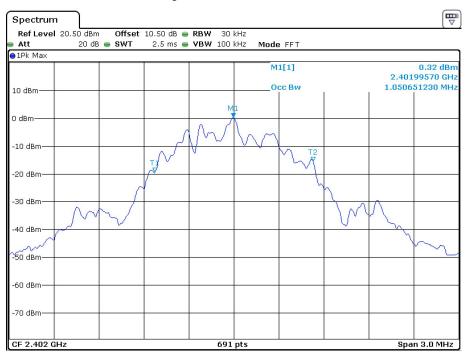
Date: 18.FEB.2022 14:32:47

6dB Bandwidth, High Channel



Date: 18.FEB.2022 14:30:09

99% Occupied Bandwidth, Low Channel



Date: 28.MAR.2022 17:56:05

99% Occupied Bandwidth, Middle Channel

Report No.: SZ1210914-52933E-RFC



Date: 28.MAR.2022 17:56:32

99% Occupied Bandwidth, High Channel



Date: 28.MAR.2022 17:58:03

FCC §15.247(e), RSS-247 §5.2 (b) – POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §15.247(e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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According to RSS-247 §5.2 b):

b) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \le RBW \le 100 \text{ kHz}$.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	26.5 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-02-18

Test Mode: Transmitting

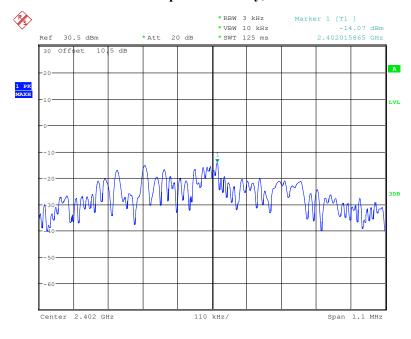
Test Result: Pass

Please refer to the following table and plots:

Channel	hannel Frequency PSD (dBm/3kHz)		Limit (dBm/3kHz)
Low	2402	-14.07	≤8
Middle	2440	-13.86	≤8
High	2480	-14.03	≤8

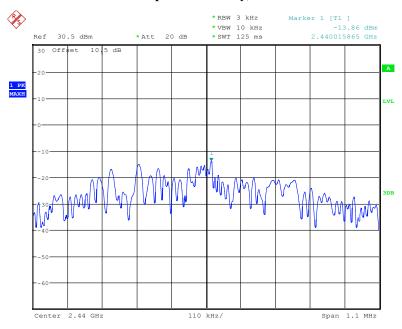
Report No.: SZ1210914-52933E-RFC

Power Spectral Density, Low Channel



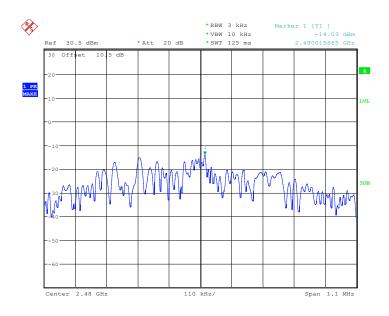
Date: 18.FEB.2022 14:36:58

Power Spectral Density, Middle Channel



Date: 18.FEB.2022 14:42:50

Power Spectral Density, High Channel



Date: 18.FEB.2022 14:44:33

FCC §15.247(b) (3), RSS-247 §5.4 (d) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

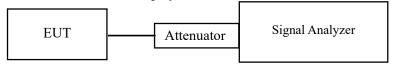
Report No.: SZ1210914-52933E-RFC

According to RSS-247§5.4 d) For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(e), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	26.5 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-02-18

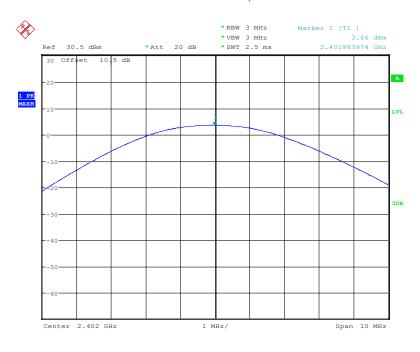
Test Result: Compliant

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Peak Output Power (dBm)	Limit (dBm)	Result
Low	2402	3.46	30	Pass
Middle	2440	3.74	30	Pass
High	2480	3.60	30	Pass

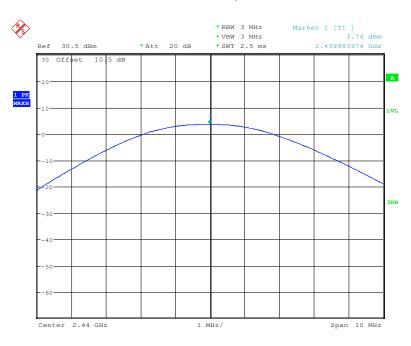
Note: Test is conducted output power, and antenna gain is 3.5dBi, which meets ISED EIRP limit.

Conducted Power, Low Channel



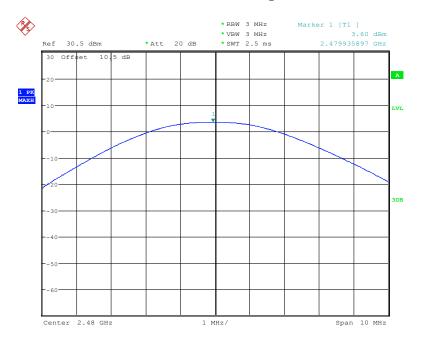
Date: 18.FEB.2022 14:23:22

Conducted Power, Middle Channel



Date: 18.FEB.2022 14:24:09

Conducted Power, High Channel



Date: 18.FEB.2022 14:24:37

FCC §15.247(d) & RSS-247 § 5.5 - BAND EDGES TESTING

Applicable Standard

According to FCC §15.247(d).

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

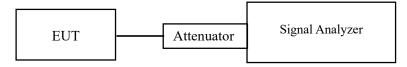
Report No.: SZ1210914-52933E-RFC

According to RSS-247 § 5.5.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(e), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

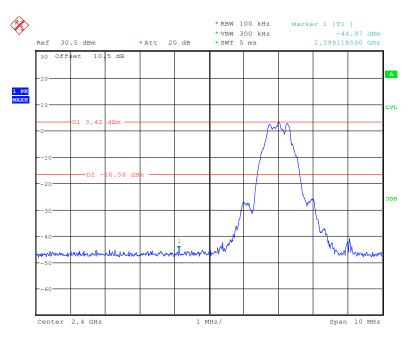
Environmental Conditions

Temperature:	26.5 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-02-18.

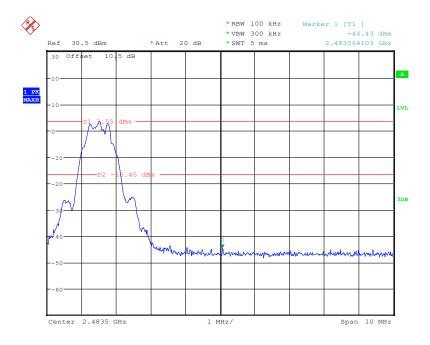
EUT operation mode: Transmitting

Band Edge-Left Side



Date: 18.FEB.2022 16:03:36

Band Edge-Right Side



Date: 18.FEB.2022 15:57:31

***** END OF REPORT *****