

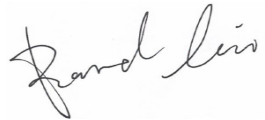
**FCC PART 15.247
TEST REPORT**

For

NARI Technology Co., Ltd.

No.19 Chengxin Avenue, Nan Jing, Jiangsu Province, 211106 China

FCC ID: 2BNCESEA2600-M01

Report Type: Original Report	Product Name: Wi-SUN Router module
Report Number:	RSHA240417005-00A
Report Date:	2025-03-13
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA240417005-00A	R1V1	2025-03-13	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	NARI Technology Co., Ltd.
Product Name:	Wi-SUN Router module
Tested Model:	SEA2600-M01
Power Supply:	DC 4V-4.5V
Maximum Output Power:	28.57 dBm
RF Function:	SRD
Operating Band/Frequency:	902.2-927.8 MHz
Modulation Type:	FSK
Antenna Type:	Rod Antenna, FPC Antenna, PCB Antenna
★Maximum Antenna Gain:	Rod Antenna : 0.42 dBi FPC Antenna : 2.38 dBi PCB Antenna : 2.35 dBi

Note: The maximum antenna gain is provided by the applicant.

All measurement and test data in this report was gathered from production sample serial number: RSHA240417005-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-04-17.)

Objective

This type approval report is prepared for *NARI Technology Co., Ltd.* in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Justification

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	902.2	34	909	68	915.8	102	922.6
1	902.4	35	909.2	69	916	103	922.8
2	902.6	36	909.4	70	916.2	104	923
3	902.8	37	909.6	71	916.4	105	923.2
4	903	38	909.8	72	916.6	106	923.4
5	903.2	39	910	73	916.8	107	923.6
6	903.4	40	910.2	74	917	108	923.8
7	903.6	41	910.4	75	917.2	109	924
8	903.8	42	910.6	76	917.4	110	924.2
9	904	43	910.8	77	917.6	111	924.4
10	904.2	44	911	78	917.8	112	924.6
11	904.4	45	911.2	79	918	113	924.8
12	904.6	46	911.4	80	918.2	114	925
13	904.8	47	911.6	81	918.4	115	925.2
14	905	48	911.8	82	918.6	116	925.4
15	905.2	49	912	83	918.8	117	925.6
16	905.4	50	912.2	84	919	118	925.8
17	905.6	51	912.4	85	919.2	119	926
18	905.8	52	912.6	86	919.4	120	926.2
19	906	53	912.8	87	919.6	121	926.4
20	906.2	54	913	88	919.8	122	926.6
21	906.4	55	913.2	89	920	123	926.8
22	906.6	56	913.4	90	920.2	124	927
23	906.8	57	913.6	91	920.4	125	927.2
24	907	58	913.8	92	920.6	126	927.4
25	907.2	59	914	93	920.8	127	927.6
26	907.4	60	914.2	94	921	128	927.8
27	907.6	61	914.4	95	921.2	/	/
28	907.8	62	914.6	96	921.4	/	/
29	908	63	914.8	97	921.6	/	/
30	908.2	64	915	98	921.8	/	/
31	908.4	65	915.2	99	922	/	/
32	908.6	66	915.4	100	922.2	/	/
33	908.8	67	915.6	101	922.4	/	/

EUT was tested with channel 0, 64, 128

EUT Exercise Software

“Tera Term” was used during the test.

★Power level: Default

Note: The power level is provided by the applicant.

Support Equipment List and Details

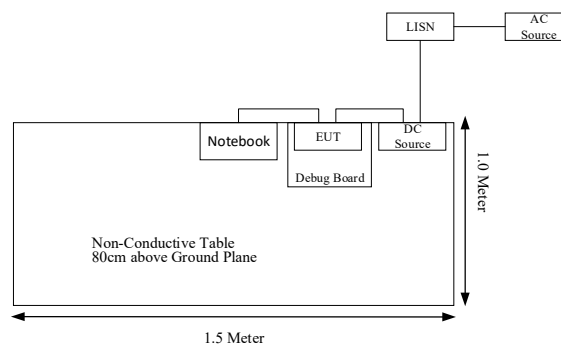
Manufacturer	Description	Model	Serial Number
Shenzhen Zhaoxin Electronic Instrument Equipment Co.,	DC Source	PS-6005D	18P6005D10724
DELL	Notebook	015K3N	00190-098-766-241
/	Debug Board	/	/

External I/O Cable

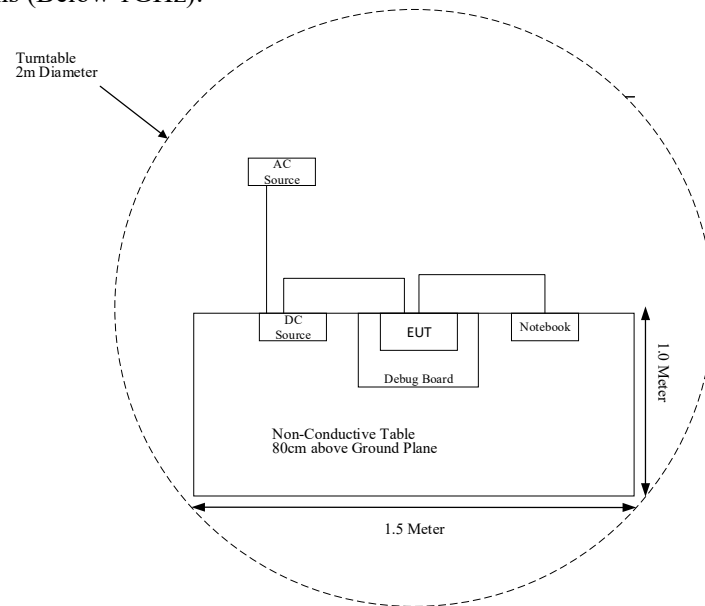
Cable Description	Length (m)	From Port	To Port
USB Cable 1	1.2	Debug Board	DC Source
USB Cable 2	1.0	Debug Board	Notebook
Power Cable	1.0	DC Source	AC Source/LISN

Block Diagram of Test Setup

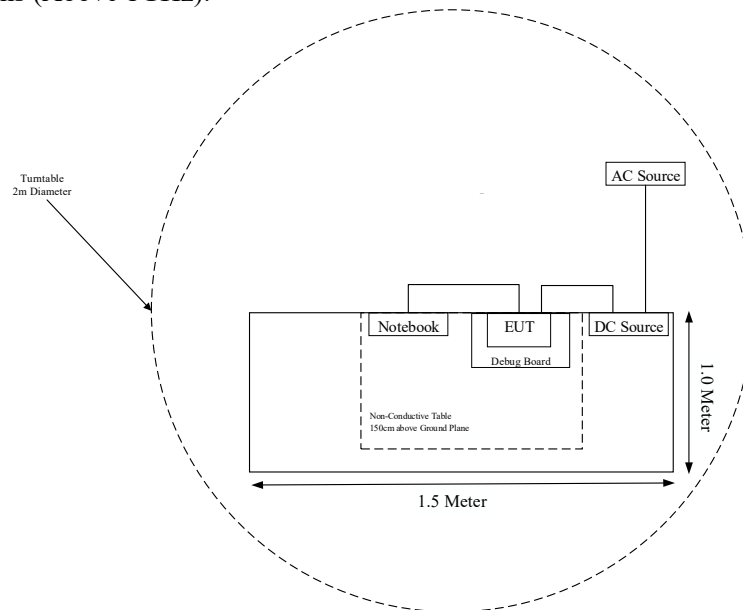
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.209, §15.205 & §15.247(d)	Spurious Emissions	Compliant
§15.247(a) (1)	Channel Separation Test	Compliant
§15.247(a) (1) (I)	20 dB Bandwidth Testing	Compliant
§15.247(a) (1) (I)	Quantity Of Hopping Channel Test	Compliant
§15.247(a) (1) (I)	Time Of Occupancy (Dwell Time)	Compliant
§15.247(b) (2)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
9kHz~30MHz					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sonoma Instrunent	Amplifier	310N	171205	2024-04-23	2025-04-22
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
30MHz~1GHz					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
Sonoma Instrunent	Amplifier	310N	171205	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Rohde & Schwarz	Test Software	EMC32	100361	N/A	N/A
Eastsheep	Attenuator	20dB	010	2024-04-24	2025-04-23
Microtronics	Band rejection filter	BRC50722	G013	2024-04-24	2025-04-23
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
A.H.Systems,inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-23	2025-04-22
Rohde & Schwarz	Test Software	EMC32	100361	N/A	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2024-04-23	2025-04-22
Rohde & Schwarz	LISN	ENV216	101115	2024-04-23	2025-04-22
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100552	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-15	015	2024-04-23	2025-04-22

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-24	2025-04-23
Rohde & Schwarz	Spectrum Analyzer	FSIQ26	100048	2024-04-24	2025-04-23
Narda	Attenuator	2W-N-JK-18G	20dB-01	2024-04-24	2025-04-23

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 - 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 Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

Antenna Connector Construction

The EUT has a Rod antenna, FPC Antenna and PCB Antenna for SRD, use a unique type of connector to attach to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1310, 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = 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);

Calculated Data:

Frequency Range (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	(numeric)	(dBm)	(mW)			
902-928	2.38	1.73	30	1000	20	0.34	0.601

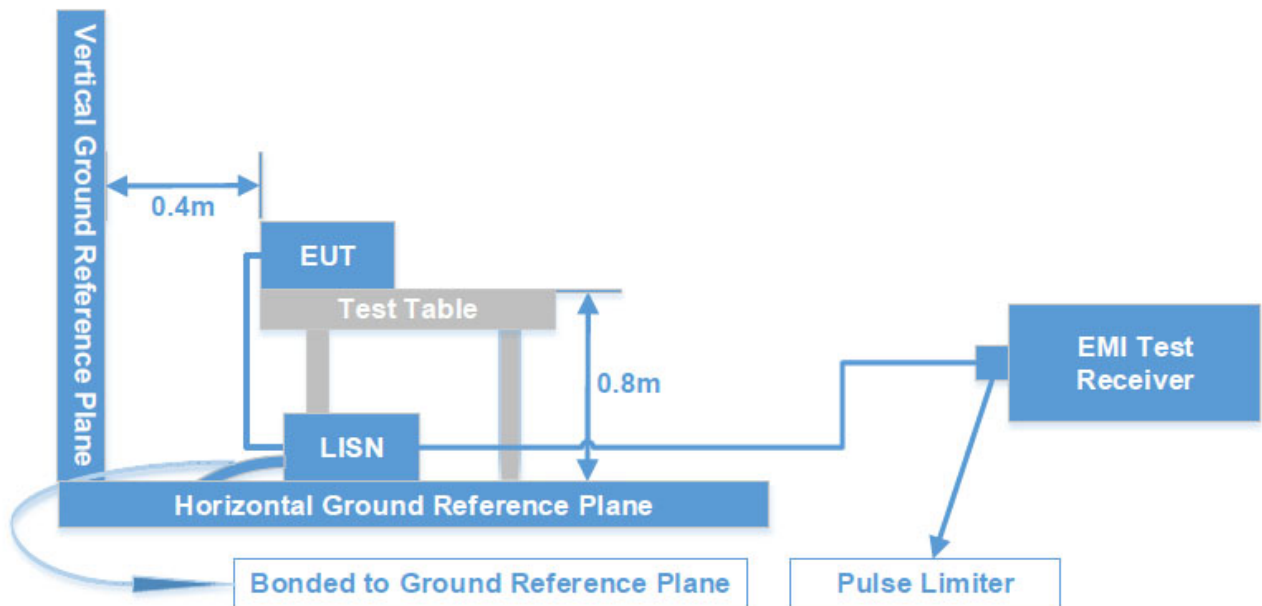
Note:

1. For the above tune up power were declared by the manufacturer.

Result: The device meet FCC MPE at 20 cm distance.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS**Applicable Standard**

FCC §15.207(a)

Test System Setup

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

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	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the EUT was connected to the outlet of the LISN.

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

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dB μ V) = Read level (dB μ V) + Factor (dB)

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 above the limit. The equation for Over Limit calculation is as follows:

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, FCC Part 15.207.

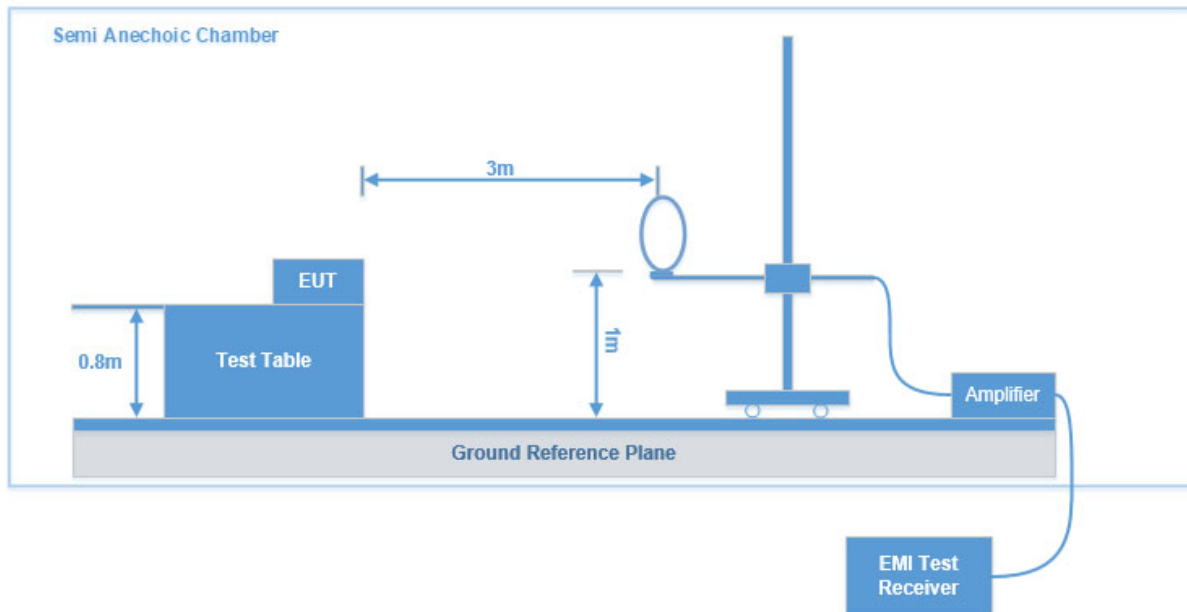
Test Data: See Exhibit A

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

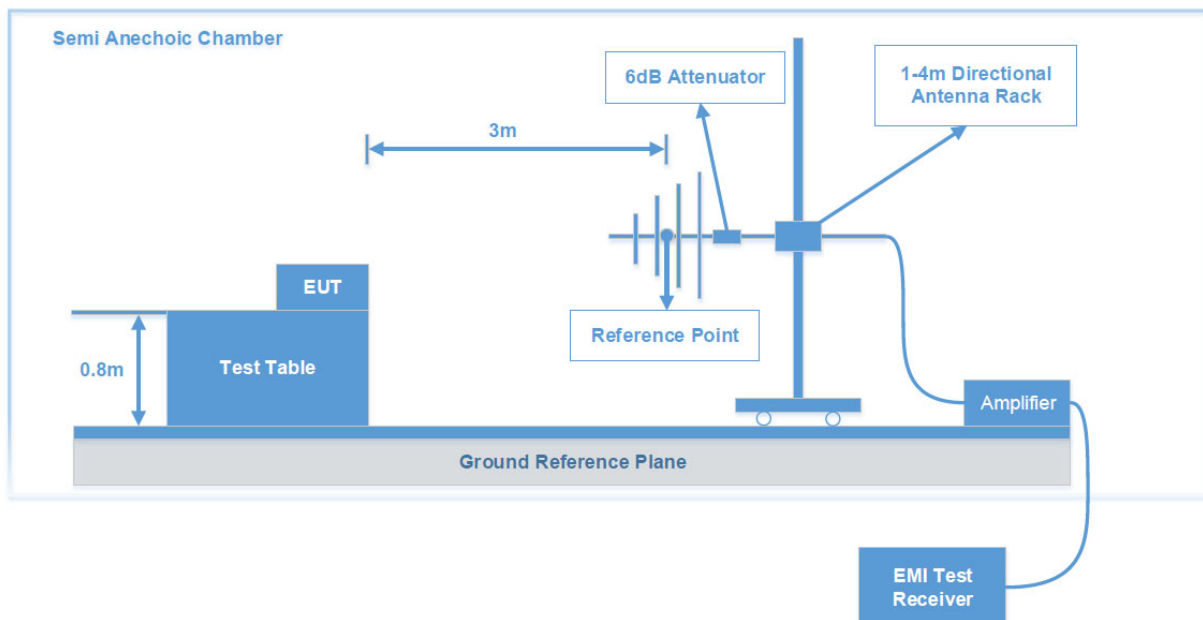
FCC §15.247 (d); §15.209; §15.205;

Test System Setup

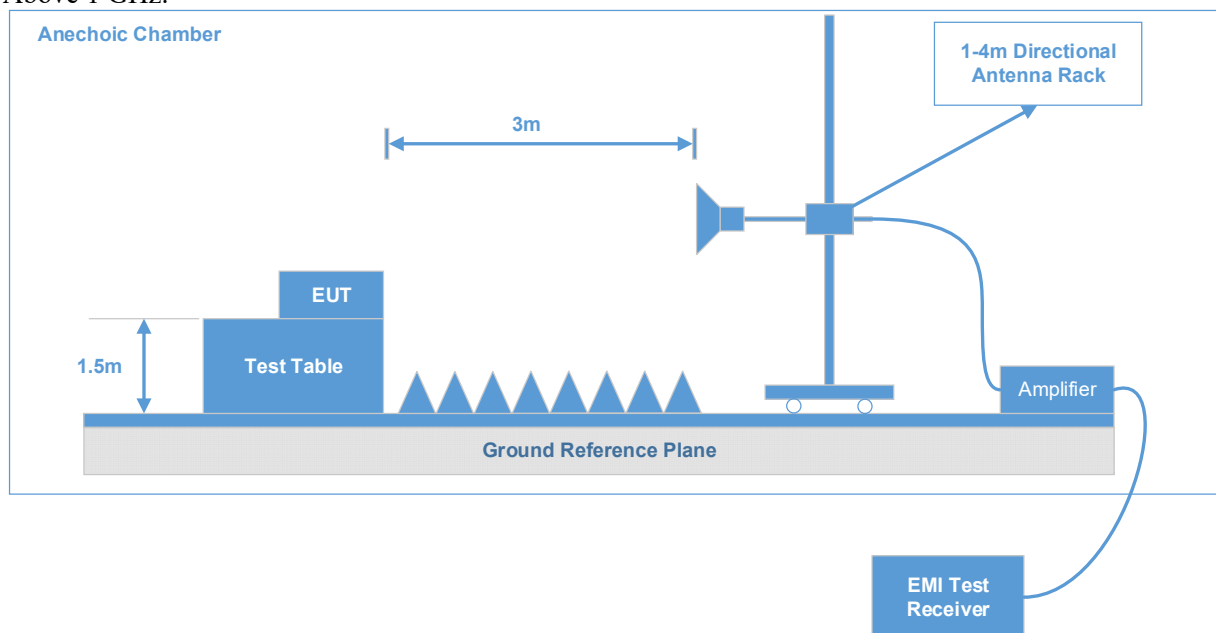
9 kHz-30MHz:



30MHz-1GHz:



Above 1 GHz:



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

EMI Test Receiver Setup

The system was investigated from 9 kHz to 9.5 GHz.

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

Frequency Range	RBW	VBW	IF B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

Note: If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform a QP/Average measurement.

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9–90 kHz, 110–490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1GHz.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Exhibit A

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

1. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace. Measure the channel separation.



Note: Offset (20.5dB) = Attenuator (20dB)+cable loss (0.5dB)

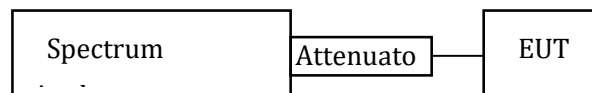
Test Data: See Exhibit A

FCC §15.247(a) (1) (i) - 20 dB BANDWIDTH TESTING**Applicable Standard**

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. 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 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Note: Offset (20.5dB) = Attenuator (20dB) + cable loss (0.5dB)

Test Data: See Exhibit A

FCC §15.247(a) (1) (i)-QUANTITY OF HOPPING CHANNEL TEST

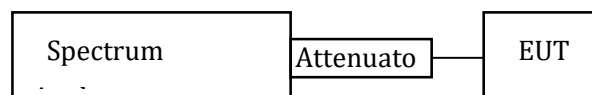
Applicable Standard

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.

By using the max-hold function record the quantity of the channel.



Note: Offset (20.5dB) = Attenuator (20dB) + cable loss (0.5dB)

Test Data: See Exhibit A

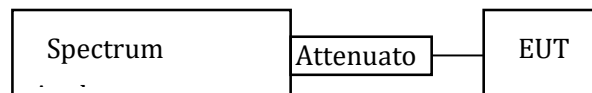
FCC §15.247(a) (1) (i) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 20 (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.



Note: Offset (20.5dB) = Attenuator (20dB) + cable loss (0.5dB)

Test Data: See Exhibit A

FCC §15.247(b) (2) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to §15.247(b) (2), For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

Test Procedure

- a. Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW ≥ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b. Allow trace to stabilize.
- c. Use the marker-to-peak function to set the marker to the peak of the emission.
- d. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e. A plot of the test results and setup description shall be included in the test report.



Note: Offset (20.5dB) = Attenuator (20dB) + cable loss (0.5dB)

Test Data: See Exhibit A

FCC §15.247(d) – BAND EDGE

Applicable Standard

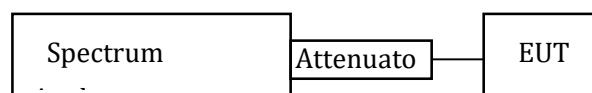
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

Test Procedure

According to ANSI C63.10-2013 sub-clause 6.10.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 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.

Repeat above procedures until all measured frequencies were complete.



Note: Offset (20.5dB) = Attenuator (20dB) + cable loss (0.5dB)

Test Data: See Exhibit A

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C - TEST SETUP PHOTOGRAPHS.

EXHIBIT A - TEST DATA

Environmental Conditions & Test Information

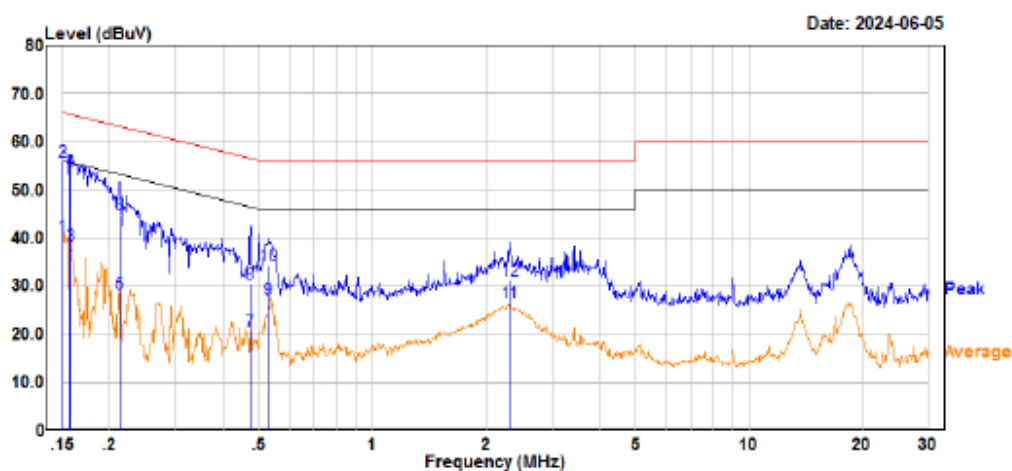
Test Item:	SPURIOUS EMISSIONS			AC LINE CONDUCTED EMISSIONS
	9 kHz - 30 MHz	30 MHz - 1 GHz	1 GHz - 9.5 GHz	
Test Date:	2024-06-01	2025-03-10&2025-03-11	2024-12-17	2024-06-05
Temperature:	23 °C	17.3 °C~18°C	15.4°C	24.6 °C
Relative Humidity:	51 %	54%~60 %	41 %	66 %
ATM Pressure:	101.2kPa	101.2 kPa ~101.6kPa	102.6kPa	101.5kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Leah Li	Jerry Yan	Klein Zhu	David Yang

Test Item:	CHANNEL SEPARATION TEST	20 DB BANDWIDTH TESTING	MAXIMUM CONDUCTED OUTPUT POWER	BAND EDGE
Test Date:	2024-06-22	2024-06-24	2024-06-22	2024-06-24 to 2025-03-11
Temperature:	21.3°C	20.7°C	21.3°C	17.3°C - 21.4°C
Relative Humidity:	50 %	67 %	50 %	57 % - 67%
ATM Pressure:	101.6kPa	101.1kPa	101.6kPa	100.6kPa - 101.6kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Hardy Huang	Hardy Huang	Hardy Huang	Hardy Huang & Neil Zhou

Test Item:	QUANTITY OF HOPPING CHANNEL TEST	TIME OF OCCUPANCY (DWELL TIME)
Test Date:	2025-03-11&2025-03-12	2025-03-12
Temperature:	17.3°C~22.3 °C	22.3 °C
Relative Humidity:	35%~57 %	35%
ATM Pressure:	101.0kPa ~101.6kPa	101.0kPa
Test Result:	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou

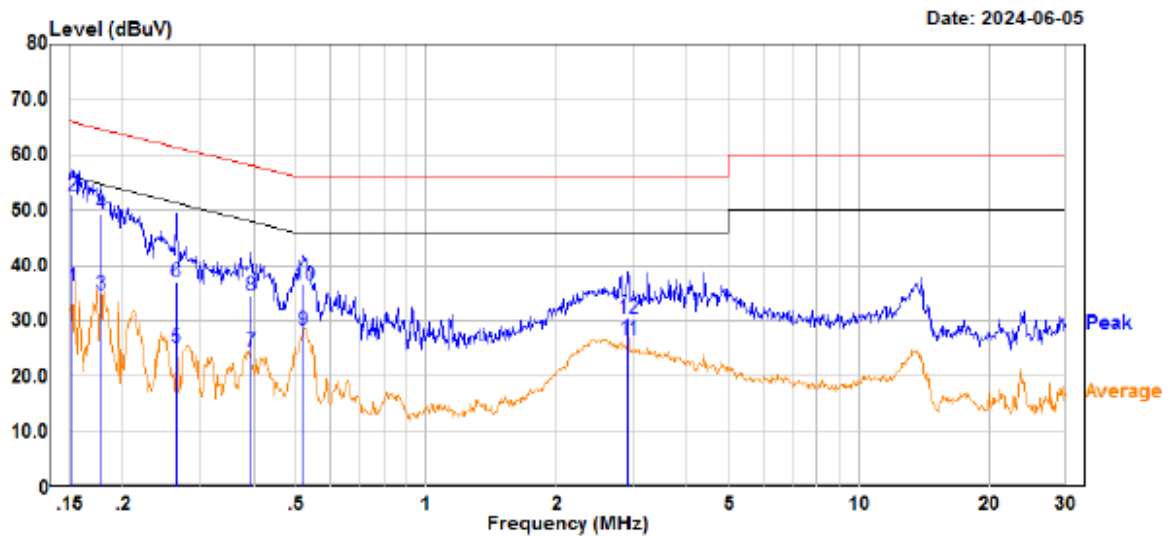
AC LINE CONDUCTED EMISSIONS

Test mode: Transmitting in maximum output power channel (middle channel) with FPC Antenna
Line



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA240417005
Model : SEA2600-M01
Phase : L
Voltage : 120V/60Hz
Mode : SRD
Test Equipment : ENV216,ESR
Temperature : 24.6℃
Humidity : 66%
Atmospheric pressure: 101.5kPa
Test Engineer : David Yang

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB	dBuV	dB	
1	0.150	20.20	20.12	40.32	56.00	-15.68	Average
2	0.150	35.70	20.12	55.82	66.00	-10.18	QP
3	0.157	18.31	20.11	38.42	55.63	-17.21	Average
4	0.157	33.81	20.11	53.92	65.63	-11.71	QP
5	0.213	8.40	20.12	28.52	53.10	-24.58	Average
6	0.213	24.60	20.12	44.72	63.10	-18.38	QP
7	0.472	0.30	20.19	20.49	46.48	-25.99	Average
8	0.472	10.30	20.19	30.49	56.48	-25.99	QP
9	0.527	7.30	20.12	27.42	46.00	-18.58	Average
10	0.527	14.10	20.12	34.22	56.00	-21.78	QP
11	2.303	6.49	20.19	26.68	46.00	-19.32	Average
12	2.303	11.09	20.19	31.28	56.00	-24.72	QP

Neutral

Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RSHA240417005
 Model : SEA2600-M01
 Phase : N
 Voltage : 120V/60Hz
 Mode : SRD
 Test Equipment : ENV216,ESR
 Temperature : 24.6°C
 Humidity : 66%
 Atmospheric pressure: 101.5kPa
 Test Engineer : David Yang

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB	dBuV	dB	
1	0.152	16.20	20.12	36.32	55.88	-19.56	Average
2	0.152	32.60	20.12	52.72	65.88	-13.16	QP
3	0.178	14.59	20.12	34.71	54.59	-19.88	Average
4	0.178	29.19	20.12	49.31	64.59	-15.28	QP
5	0.265	5.10	20.15	25.25	51.28	-26.03	Average
6	0.265	16.80	20.15	36.95	61.28	-24.33	QP
7	0.394	4.30	20.20	24.50	47.97	-23.47	Average
8	0.394	14.40	20.20	34.60	57.97	-23.37	QP
9	0.522	8.10	20.12	28.22	46.00	-17.78	Average
10	0.522	16.30	20.12	36.42	56.00	-19.58	QP
11	2.926	6.30	20.22	26.52	46.00	-19.48	Average
12	2.926	10.30	20.22	30.52	56.00	-25.48	QP

SPURIOUS EMISSIONS

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

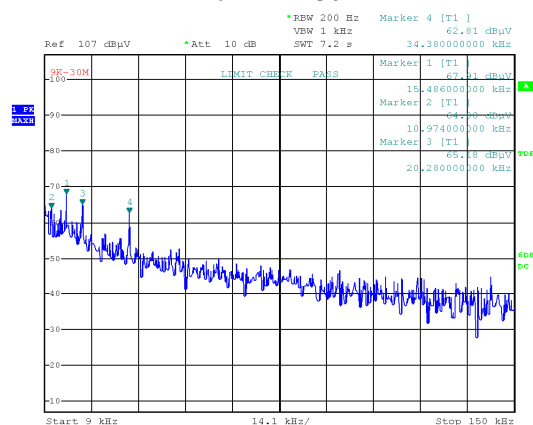
9kHz~30MHz:

Test mode: Transmitting in maximum output power channel (middle channel)

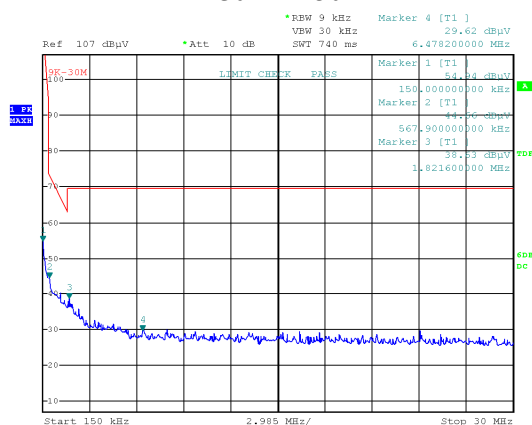
Parallel (worst case)

Rod Antenna

9 kHz-150 kHz



150 kHz-30 MHz



Project No.RSHA240417005
 Date: 1.JUN.2024 15:42:39

Tester:Leah Li

Project No.RSHA240417005
 Date: 1.JUN.2024 16:00:09

Tester:Leah Li

9 kHz-150 kHz

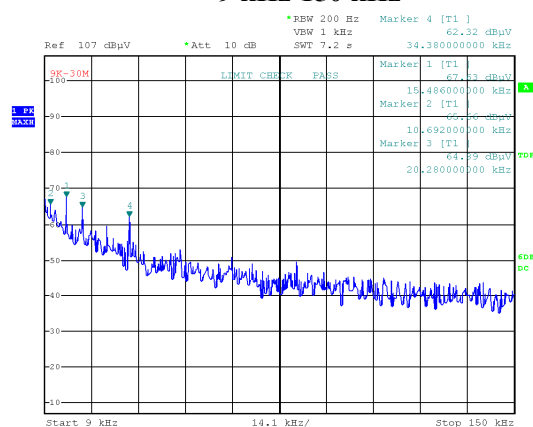
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.010974	64.08	PK	55.74	126.80	62.72
0.015486	67.91	PK	52.87	123.81	55.90
0.020280	65.18	PK	49.92	121.46	56.28
0.034380	62.81	PK	46.06	116.88	54.07

150 kHz-30 MHz

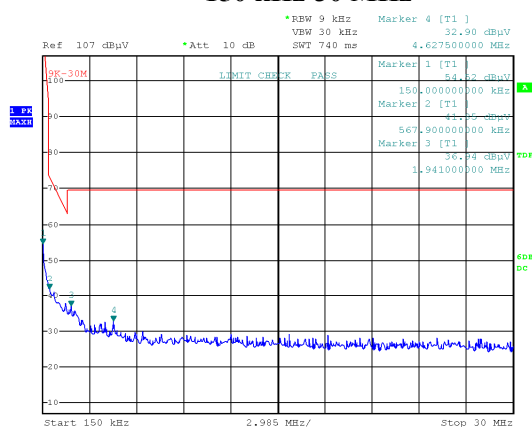
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	54.94	PK	50.90	104.08	49.14
0.56790	44.66	PK	22.25	72.52	27.86
1.82160	38.63	PK	12.08	69.54	30.91
6.47820	29.62	PK	7.01	69.54	39.92

FPC Antenna

9 kHz-150 kHz



150 kHz-30 MHz



Project No.RSHA240417005
Date: 1.JUN.2024 15:45:33

Tester:Leah Li

Project No.RSHA240417005
Date: 1.JUN.2024 15:53:33

Tester:Leah Li

9 kHz-150 kHz

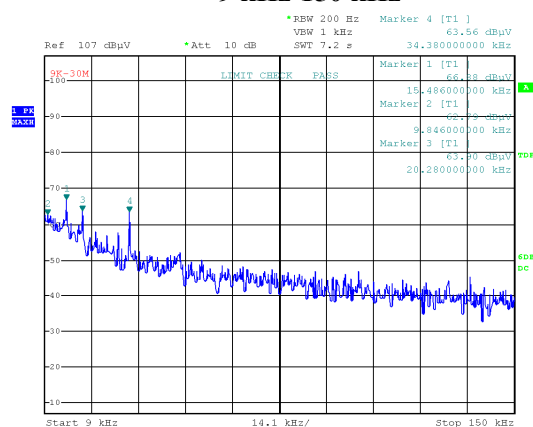
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.010692	65.66	PK	55.92	127.02	61.36
0.015486	67.63	PK	52.87	123.81	56.18
0.020280	64.89	PK	49.92	121.46	56.57
0.034380	62.32	PK	46.06	116.88	54.56

150 kHz-30 MHz

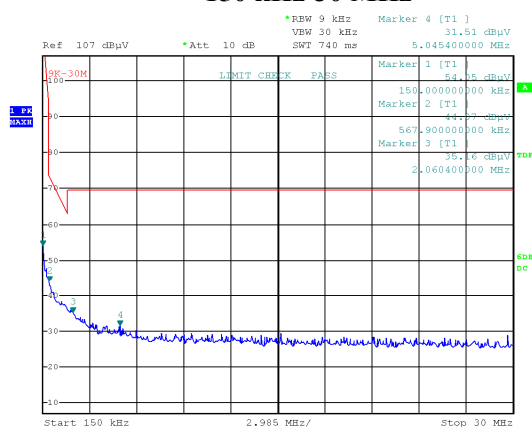
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	54.52	PK	50.90	104.08	49.56
0.56790	41.85	PK	22.25	72.52	30.67
1.94100	36.94	PK	13.63	69.54	32.60
4.62750	32.90	PK	12.29	69.54	36.64

PCB Antenna

9 kHz-150 kHz



150 kHz-30 MHz



Project No.RSHA240417005
Date: 1.JUN.2024 15:49:17

Tester:Leah Li

Project No.RSHA240417005
Date: 1.JUN.2024 15:56:37

Tester:Leah Li

9 kHz-150 kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.009846	62.79	PK	56.46	127.74	64.95
0.015486	66.88	PK	52.87	123.81	56.93
0.020280	63.90	PK	49.92	121.46	57.56
0.034380	63.56	PK	46.06	116.88	53.32

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	54.05	PK	31.77	104.08	50.03
0.56790	44.07	PK	20.54	72.52	28.45
2.06040	35.16	PK	9.95	69.54	34.38
5.04540	31.51	PK	4.55	69.54	38.03

Rod Antenna

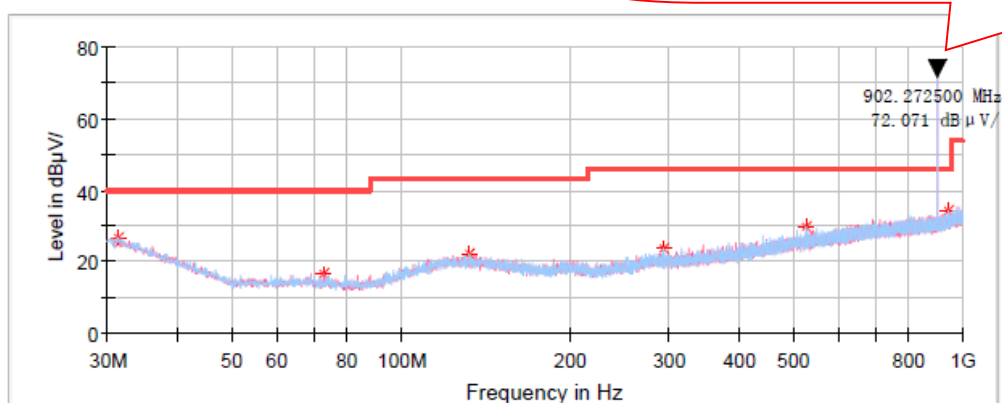
30 MHz - 1 GHz:

Low channel: 902.2 MHz

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6 kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter



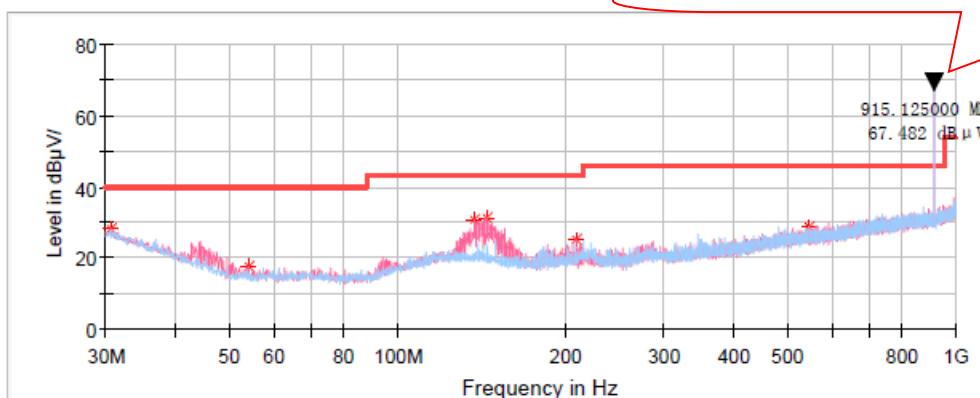
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.333750	26.44	40.00	13.56	H	-5.6
72.680000	16.46	40.00	23.54	V	-16.7
132.698750	22.15	43.50	21.35	H	-11.1
293.233750	23.47	46.00	22.53	H	-10.3
526.761250	29.87	46.00	16.13	H	-5.0
945.073750	34.30	46.00	11.70	H	1.3

Middle channel: 915 MHz**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6 kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

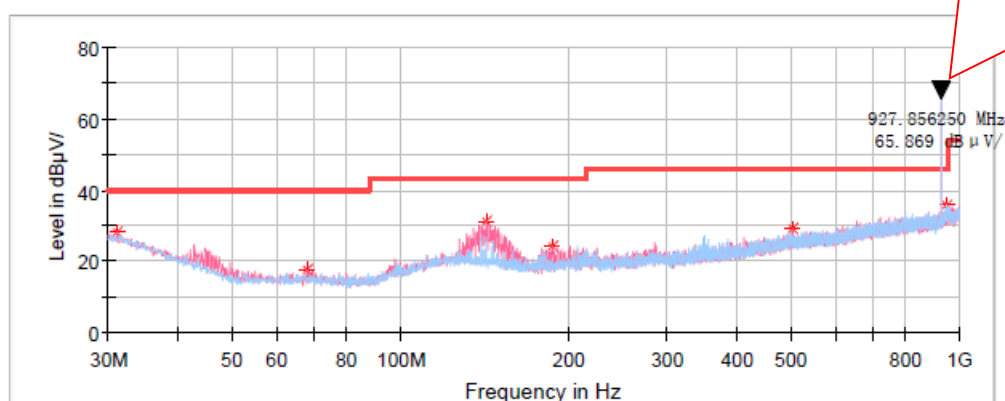
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.606250	28.38	40.00	11.62	V	-5.1
54.007500	17.64	40.00	22.36	V	-17.0
137.185000	30.62	43.50	12.88	V	-11.2
144.217500	31.13	43.50	12.37	V	-11.4
209.571250	25.18	43.50	18.32	V	-12.7
545.191250	28.64	46.00	17.36	H	-4.7

High Channel: 927.8 MHz**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6 kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.212500	28.25	40.00	11.75	V	-5.5
68.072500	17.80	40.00	22.20	V	-16.6
142.398750	31.04	43.50	12.46	V	-11.3
187.018750	24.39	43.50	19.11	V	-12.6
504.815000	29.09	46.00	16.91	V	-5.3
950.893750	35.95	46.00	10.05	H	1.4

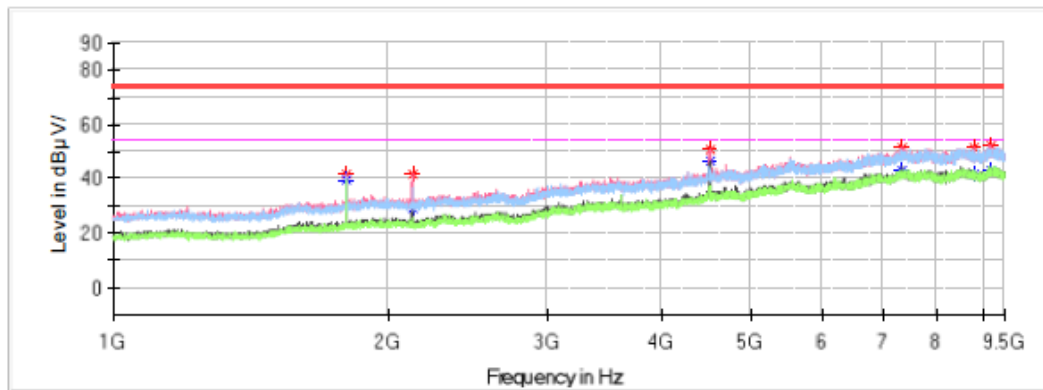
1 GHz – 9.5 GHz:

Low Channel: 902.2 MHz

Common Information

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

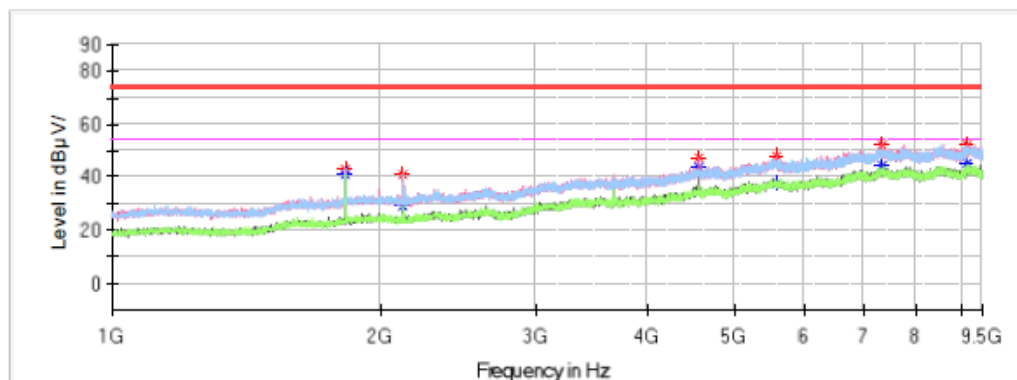
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1804.100000	---	39.96	54.00	14.04	H	-12.9
1804.100000	41.56	---	74.00	32.44	H	-12.9
2133.050000	---	29.50	54.00	24.50	V	-11.3
2133.050000	41.78	---	74.00	32.22	V	-11.3
4511.350000	---	46.65	54.00	7.35	V	-4.2
4511.350000	50.59	---	74.00	23.41	V	-4.2
7318.050000	---	43.03	54.00	10.97	V	3.4
7318.050000	51.37	---	74.00	22.63	V	3.4
8785.150000	---	41.72	54.00	12.28	V	5.4
8785.150000	51.86	---	74.00	22.14	V	5.4
9196.550000	---	43.22	54.00	10.78	V	5.4
9196.550000	52.37	---	74.00	21.63	V	5.4

Middle Channel: 915 MHz**Common Information**

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

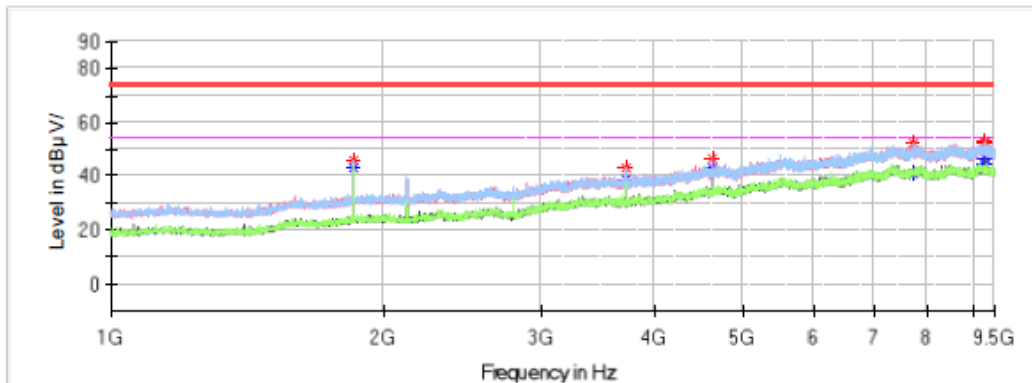
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1829.600000	---	41.30	54.00	12.70	H	-12.8
1829.600000	43.32	---	74.00	30.68	H	-12.8
2125.400000	---	29.04	54.00	24.96	H	-11.3
2125.400000	40.81	---	74.00	33.19	H	-11.3
4575.100000	---	43.81	54.00	10.19	V	-4.0
4575.100000	47.53	---	74.00	26.47	V	-4.0
5578.100000	47.84	---	74.00	26.16	V	-0.3
5578.100000	---	37.58	54.00	16.42	V	-0.3
7320.600000	52.56	---	74.00	21.44	V	3.4
7320.600000	---	44.76	54.00	9.24	V	3.4
9150.650000	52.20	---	74.00	21.80	V	5.4
9150.650000	---	45.34	54.00	8.66	V	5.4

High Channel: 927.8 MHz**Common Information**

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1855.100000	---	43.49	54.00	10.51	V	-12.6
1855.100000	45.92	---	74.00	28.08	V	-12.6
3710.650000	---	38.88	54.00	15.12	V	-6.2
3710.650000	43.49	---	74.00	30.51	V	-6.2
4638.850000	---	43.30	54.00	10.70	V	-3.8
4638.850000	46.65	---	74.00	27.35	V	-3.8
7737.950000	---	41.20	54.00	12.80	H	3.9
7737.950000	52.46	---	74.00	21.54	H	3.9
9278.150000	---	46.41	54.00	7.59	V	5.4
9278.150000	52.01	---	74.00	21.99	V	5.4
9279.000000	---	44.67	54.00	9.33	V	5.4
9279.000000	52.67	---	74.00	21.33	V	5.4

FPC Antenna

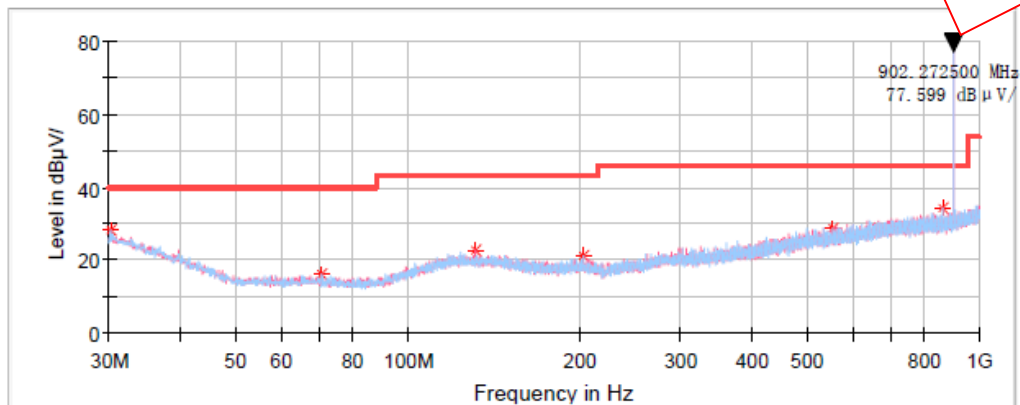
30 MHz - 1 GHz:

Low channel: 902.2 MHz

Common Information

Project No:	RSHA240417005
EUT Model:	SEA2600-M01
Test Mode:	Transmitting in SRD mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	17.3°C
Humidity:	60%
Barometric Pressure:	101.6kPa
Test Engineer:	Jerry Yan
Test Date:	2025/3/11

Fundamental Test with Band rejection filter



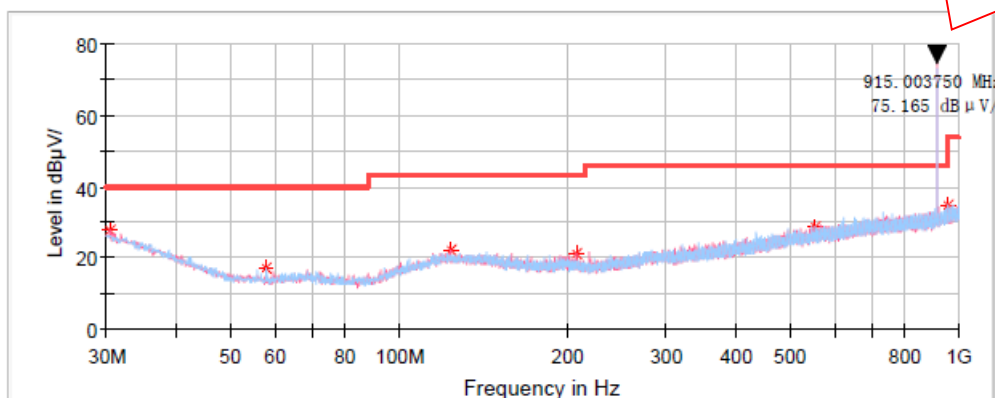
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	28.00	40.00	12.00	H	-4.8
70.861250	15.90	40.00	24.10	H	-16.6
131.607500	22.49	43.50	21.01	V	-11.1
203.145000	20.89	43.50	22.61	H	-12.2
554.163750	28.56	46.00	17.44	H	-4.6
862.017500	34.14	46.00	11.86	H	-0.2

Middle channel: 915 MHz**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

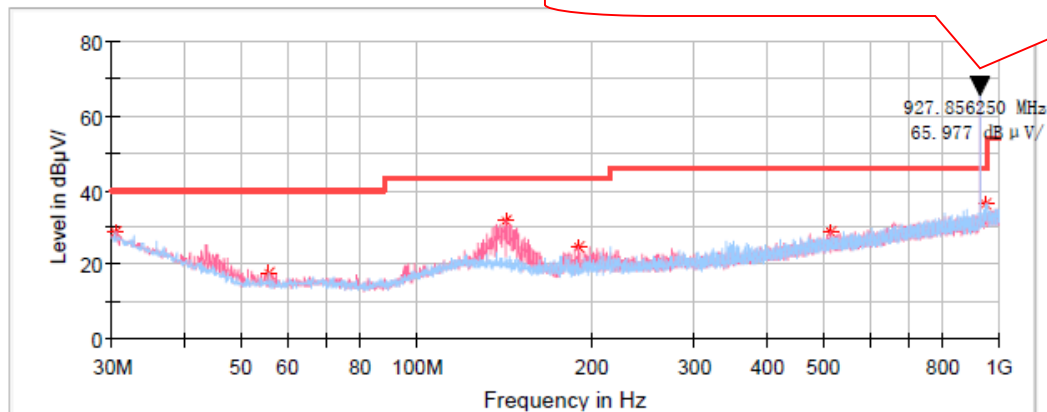
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.485000	27.70	40.00	12.30	V	-5.1
58.008750	17.05	40.00	22.95	H	-17.0
123.483750	22.12	43.50	21.38	V	-10.9
207.025000	20.96	43.50	22.54	V	-12.5
552.587500	28.69	46.00	17.31	H	-4.6
957.805000	34.59	46.00	11.41	H	1.6

High Channel: 927.8 MHz**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	28.59	40.00	11.41	H	-5.0
55.705000	17.44	40.00	22.56	H	-17.0
142.277500	31.46	43.50	12.04	V	-11.3
189.565000	24.73	43.50	18.77	V	-12.5
516.091250	28.84	46.00	17.16	V	-5.1
949.802500	36.44	46.00	9.56	H	1.4

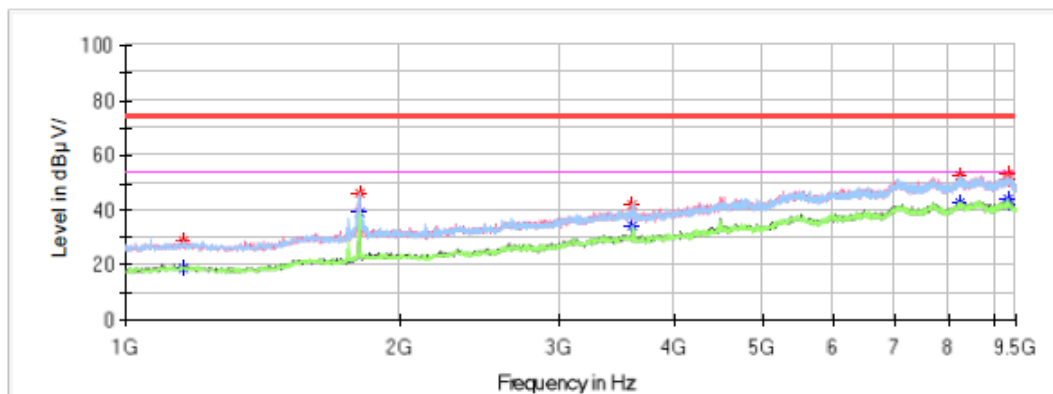
1 GHz – 9.5 GHz:

Low Channel: 902.2 MHz

Common Information

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum



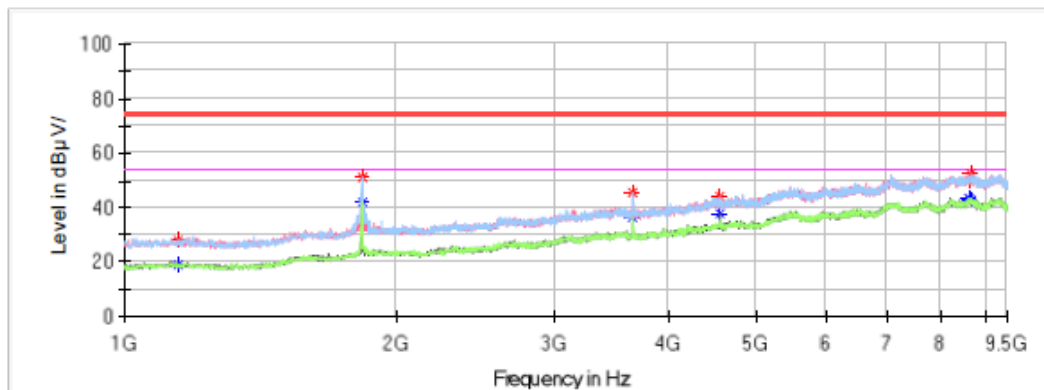
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1158.100000	---	18.99	54.00	35.01	H	-15.2
1158.100000	28.45	---	74.00	45.55	H	-15.2
1804.100000	---	39.18	54.00	14.82	H	-12.9
1804.100000	45.97	---	74.00	28.03	H	-12.9
3607.800000	---	34.10	54.00	19.90	H	-6.2
3607.800000	42.25	---	74.00	31.75	H	-6.2
8255.600000	---	42.63	54.00	11.37	H	4.7
8255.600000	52.41	---	74.00	21.59	H	4.7
9296.000000	---	43.92	54.00	10.08	H	5.4
9296.000000	51.11	---	74.00	22.89	H	5.4
9309.600000	---	42.27	54.00	11.73	V	5.4
9309.600000	53.04	---	74.00	20.96	V	5.4

Middle Channel: 915 MHz**Common Information**

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

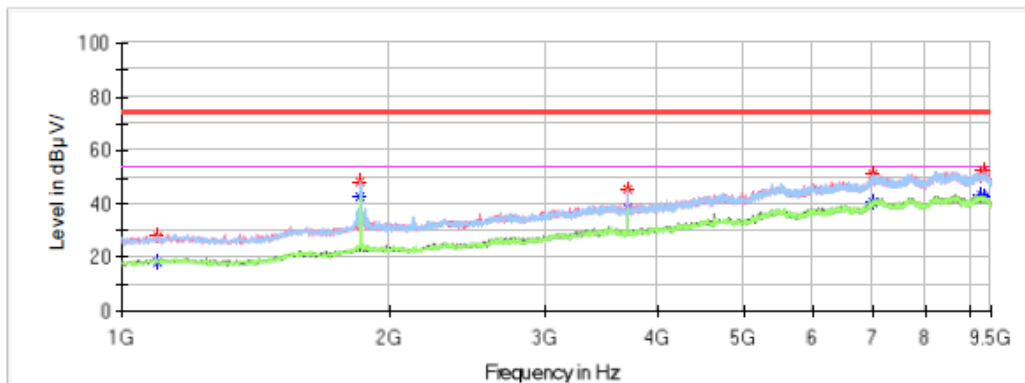
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1146.200000	---	18.59	54.00	35.41	V	-15.2
1146.200000	27.77	---	74.00	46.23	V	-15.2
1829.600000	51.06	---	74.00	22.94	H	-12.8
1829.600000	---	41.84	54.00	12.16	H	-12.8
3660.500000	45.48	---	74.00	28.52	H	-6.2
3660.500000	---	36.57	54.00	17.43	H	-6.2
4575.100000	---	38.05	54.00	15.95	V	-4.0
4575.100000	44.15	---	74.00	29.85	V	-4.0
8621.100000	49.98	---	74.00	24.02	H	5.4
8621.100000	---	43.32	54.00	10.68	H	5.4
8665.300000	52.28	---	74.00	21.72	H	5.4
8665.300000	---	42.54	54.00	11.46	H	5.4

High Channel: 927.8 MHz**Common Information**

Project No.: RSHA240417005
Test Mode: SRD
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Klein Zhu

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.600000	---	18.45	54.00	35.55	H	-15.3
1098.600000	27.73	---	74.00	46.27	H	-15.3
1855.100000	---	42.92	54.00	11.08	H	-12.6
1855.100000	48.26	---	74.00	25.74	H	-12.6
3711.500000	---	38.11	54.00	15.89	H	-6.2
3711.500000	45.66	---	74.00	28.34	H	-6.2
7007.800000	---	40.89	54.00	13.11	H	2.6
7007.800000	51.02	---	74.00	22.98	H	2.6
9279.000000	---	43.44	54.00	10.56	V	5.4
9279.000000	50.60	---	74.00	23.40	V	5.4
9323.200000	---	42.50	54.00	11.50	V	5.4
9323.200000	52.28	---	74.00	21.72	V	5.4

PCB Antenna

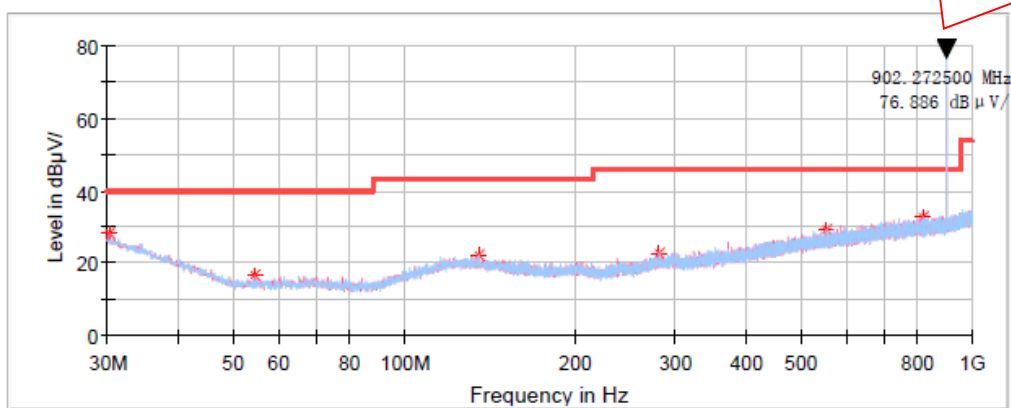
30 MHz - 1 GHz:

Low channel: 902.2 MHz

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6 kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

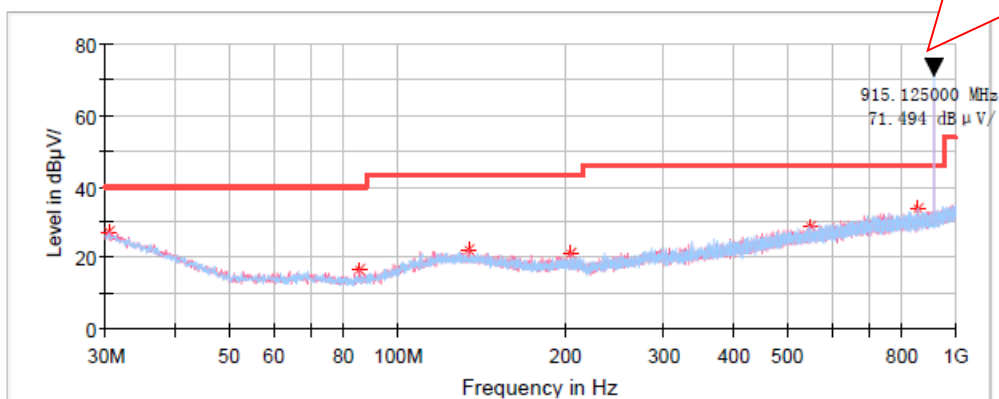
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	27.99	40.00	12.01	V	-4.8
54.735000	16.35	40.00	23.65	V	-17.0
135.730000	22.26	43.50	21.24	H	-11.1
280.138750	22.82	46.00	23.18	H	-10.4
552.830000	29.19	46.00	16.81	H	-4.6
816.548750	32.51	46.00	13.49	V	-0.6

Middle channel: 915 MHz**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6 kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

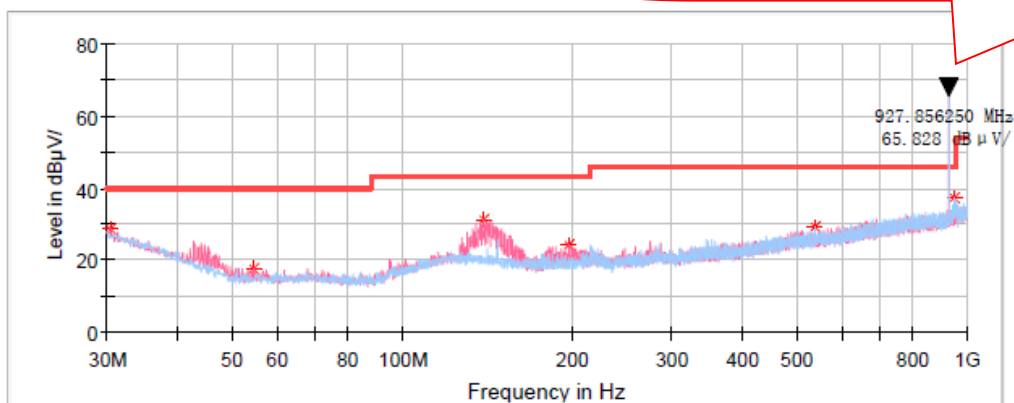
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	27.10	40.00	12.90	V	-5.0
85.896250	16.49	40.00	23.51	V	-17.0
134.153750	22.07	43.50	21.43	V	-11.1
204.478750	20.94	43.50	22.56	V	-12.3
550.890000	28.63	46.00	17.37	V	-4.6
856.682500	33.56	46.00	12.44	H	-0.3

High Channel: 927.8 MHz**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 60%
Barometric Pressure: 101.6 kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/11

Fundamental Test with Band rejection filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	28.48	40.00	11.52	V	-5.0
54.735000	17.76	40.00	22.24	V	-17.0
139.731250	31.00	43.50	12.50	V	-11.2
196.961250	24.14	43.50	19.36	V	-12.2
539.250000	29.05	46.00	16.95	H	-4.8
949.802500	37.12	46.00	8.88	H	1.4

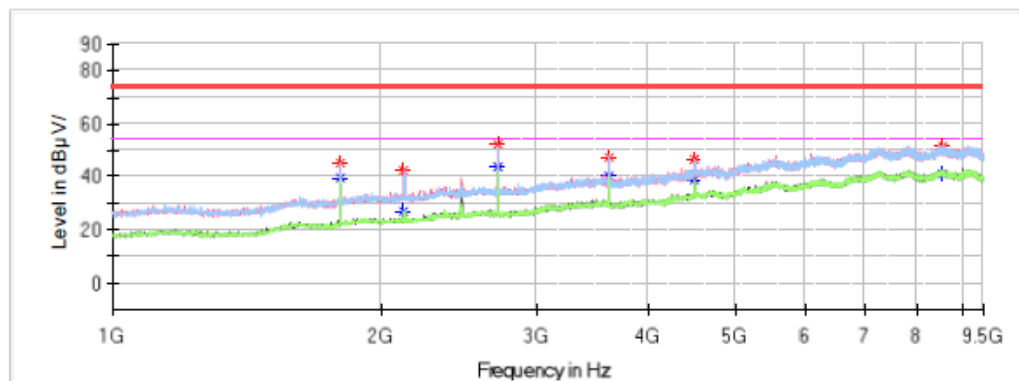
1 GHz – 9.5 GHz:

Low Channel: 902.2 MHz

Common Information

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247&FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

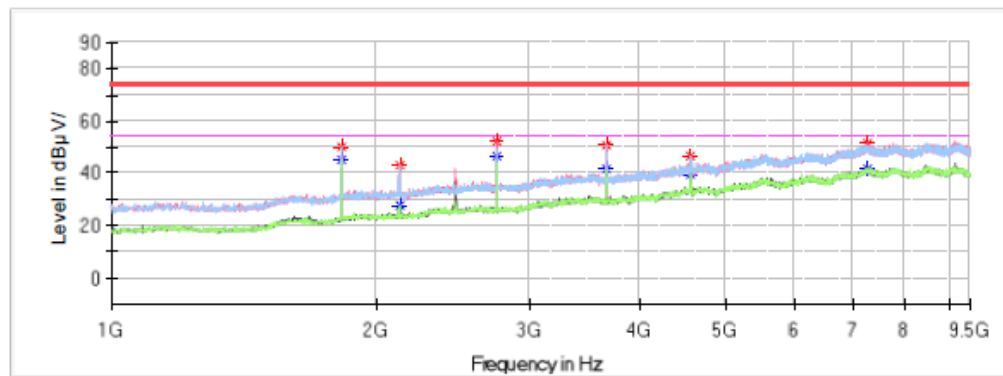
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1804.100000	---	39.57	54.00	14.43	H	-12.9
1804.100000	45.43	---	74.00	28.57	H	-12.9
2125.400000	---	27.24	54.00	26.76	H	-11.3
2125.400000	42.73	---	74.00	31.27	H	-11.3
2706.800000	---	43.52	54.00	10.48	V	-9.4
2706.800000	52.03	---	74.00	21.97	V	-9.4
3607.800000	47.46	---	74.00	26.54	H	-6.2
3607.800000	---	40.09	54.00	13.91	H	-6.2
4510.500000	---	39.24	54.00	14.76	V	-4.2
4510.500000	46.42	---	74.00	27.58	V	-4.2
8548.000000	---	41.03	54.00	12.97	H	5.4
8548.000000	51.81	---	74.00	22.19	H	5.4

Middle Channel: 915 MHz**Common Information**

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247&FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

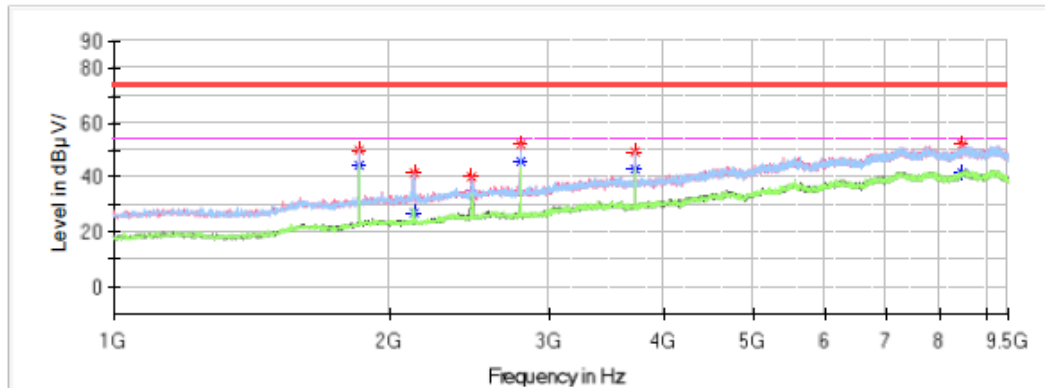
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1829.600000	---	45.54	54.00	8.46	H	-12.8
1829.600000	50.17	---	74.00	23.83	H	-12.8
2130.500000	---	27.73	54.00	26.27	H	-11.3
2130.500000	43.10	---	74.00	30.90	H	-11.3
2744.200000	---	46.68	54.00	7.32	V	-9.3
2744.200000	52.44	---	74.00	21.56	V	-9.3
3660.500000	50.90	---	74.00	23.10	H	-6.2
3660.500000	---	41.52	54.00	12.48	H	-6.2
4575.100000	---	39.43	54.00	14.57	H	-4.0
4575.100000	46.50	---	74.00	27.50	H	-4.0
7262.800000	---	41.61	54.00	12.39	V	3.3
7262.800000	51.53	---	74.00	22.47	V	3.3

High Channel: 927.8 MHz**Common Information**

Project No.: RSHA240417005
 Test Mode: SRD
 Standard: FCC Part 15.247&FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Klein Zhu

Full Spectrum

**Critical Freqs**

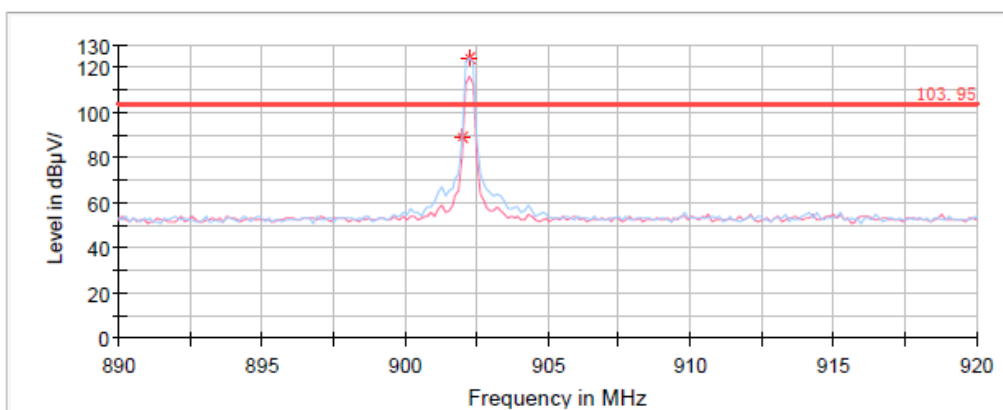
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1855.100000	49.89	---	74.00	24.11	H	-12.6
1855.100000	---	44.70	54.00	9.30	H	-12.6
2128.800000	41.56	---	74.00	32.44	V	-11.3
2128.800000	---	26.93	54.00	27.07	V	-11.3
2465.400000	40.43	---	74.00	33.57	V	-10.3
2465.400000	---	34.16	54.00	19.84	V	-10.3
2783.300000	---	46.07	54.00	7.93	V	-9.2
2783.300000	51.89	---	74.00	22.11	V	-9.2
3711.500000	---	42.93	54.00	11.07	H	-6.2
3711.500000	49.74	---	74.00	24.26	H	-6.2
8483.400000	---	41.67	54.00	12.33	H	5.4
8483.400000	52.27	---	74.00	21.73	H	5.4

Band Edge:

Rod Antenna

Left Side**Common Information**

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 36%
Barometric Pressure: 102.2kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/10

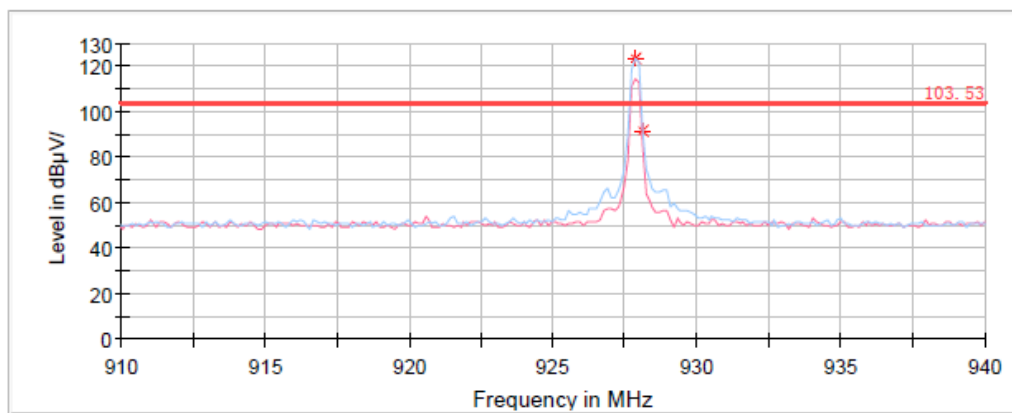
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
902.000000	88.95	103.95	15.00	H	21.6
902.272500	123.95	/	/	H	21.6

Right Side

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 36%
Barometric Pressure: 102.2kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/10



Critical_Freqs

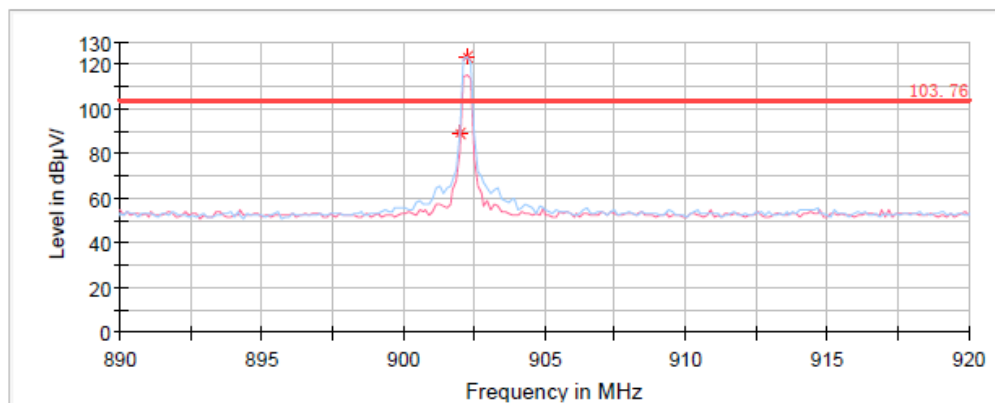
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
927.856250	123.53	/	/	H	19.9
928.098750	91.85	103.53	11.68	H	19.9

FPC Antenna

Left Side

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 36%
Barometric Pressure: 102.2kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/10



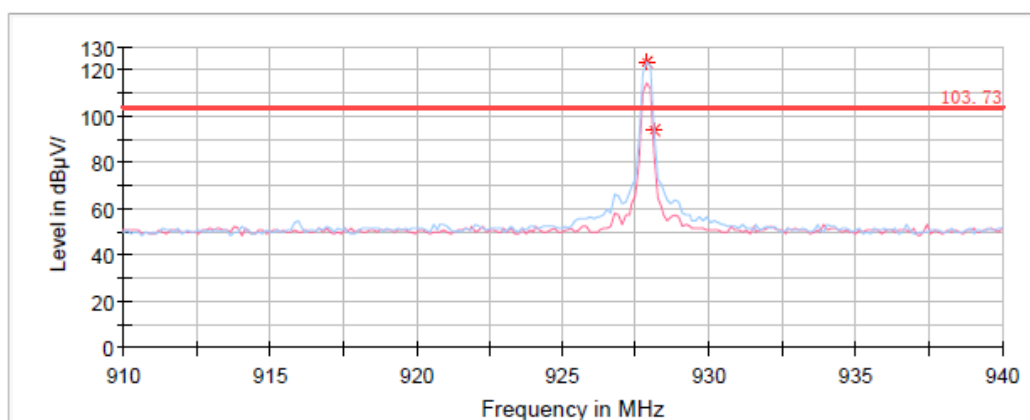
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
902.000000	89.18	103.76	14.58	H	21.6
902.272500	123.76	/	/	H	21.6

Right Side

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 36%
Barometric Pressure: 102.2kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/10



Critical Freqs

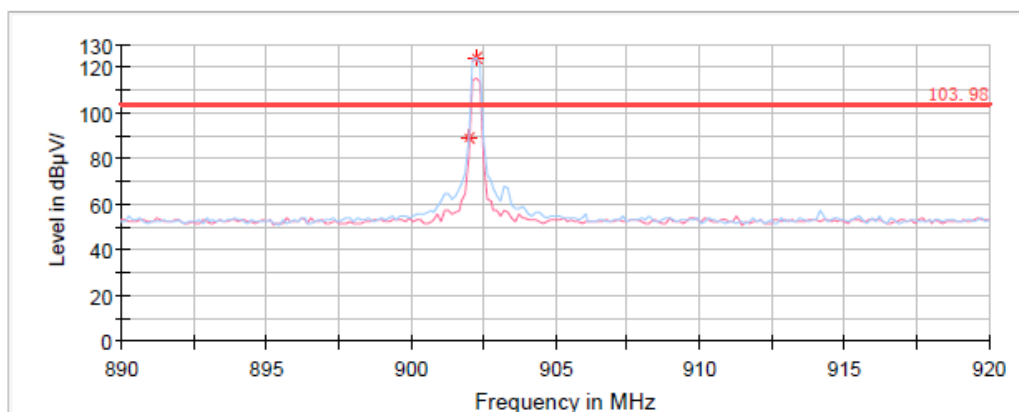
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
927.856250	123.73	/	/	H	19.9
928.098750	93.77	103.73	9.96	H	19.9

PCB Antenna

Left Side

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 36%
Barometric Pressure: 102.2kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/10



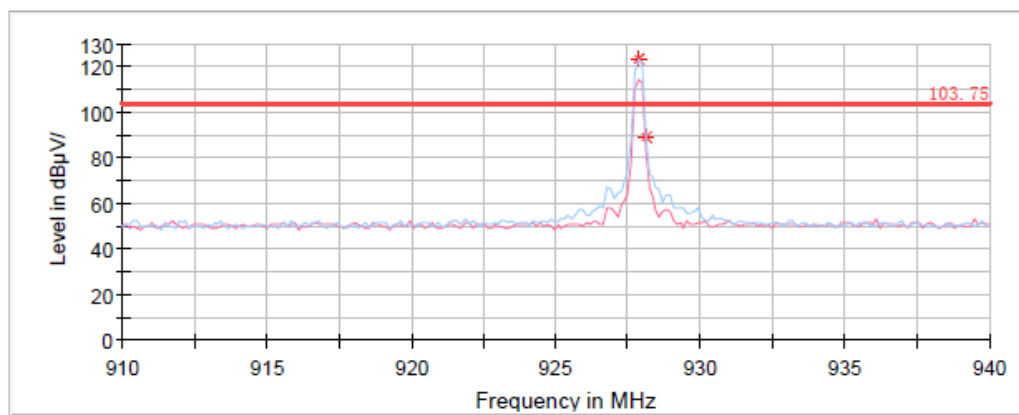
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
902.000000	88.89	103.98	15.09	H	21.6
902.272500	123.98	/	/	H	21.6

Right Side

Common Information

Project No: RSHA240417005
EUT Model: SEA2600-M01
Test Mode: Transmitting in SRD mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 36%
Barometric Pressure: 102.2kPa
Test Engineer: Jerry Yan
Test Date: 2025/3/10



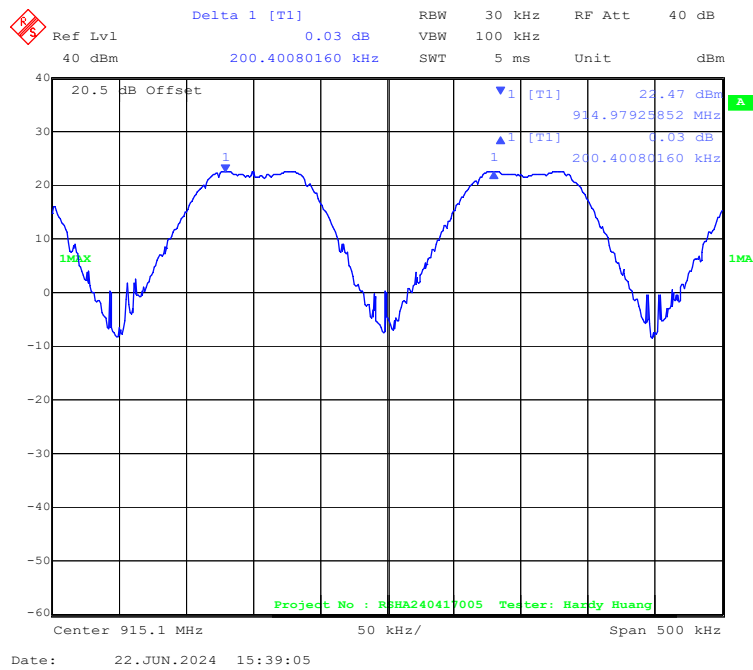
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
927.856250	123.75	/	/	H	19.9
928.098750	89.25	103.75	14.50	H	19.9

CHANNEL SEPARATION TEST

Channel	Frequency (MHz)	Channel Separation (kHz)	Limit (kHz)	Result
Middle	915.0	200.4	≥ 102.8	Pass

Middle Channel



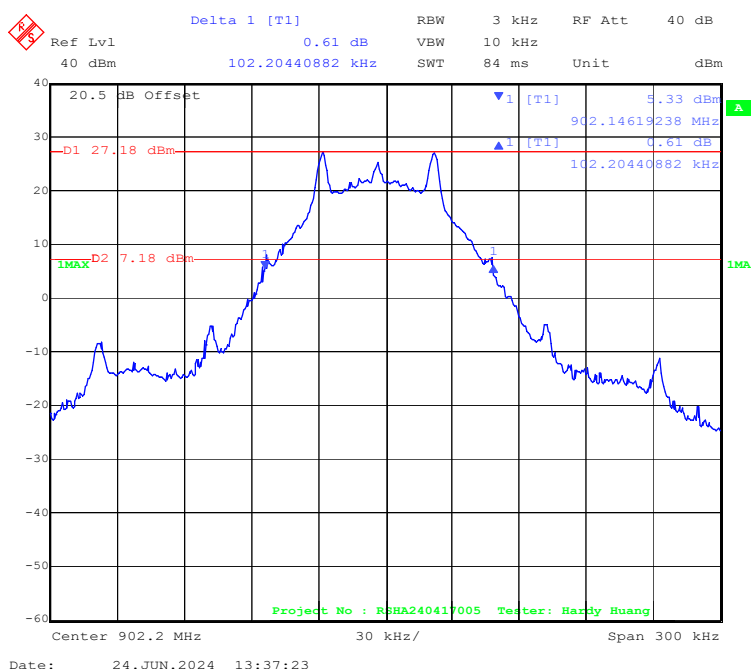
20 dB BANDWIDTH TESTING

Test Result: Compliant.

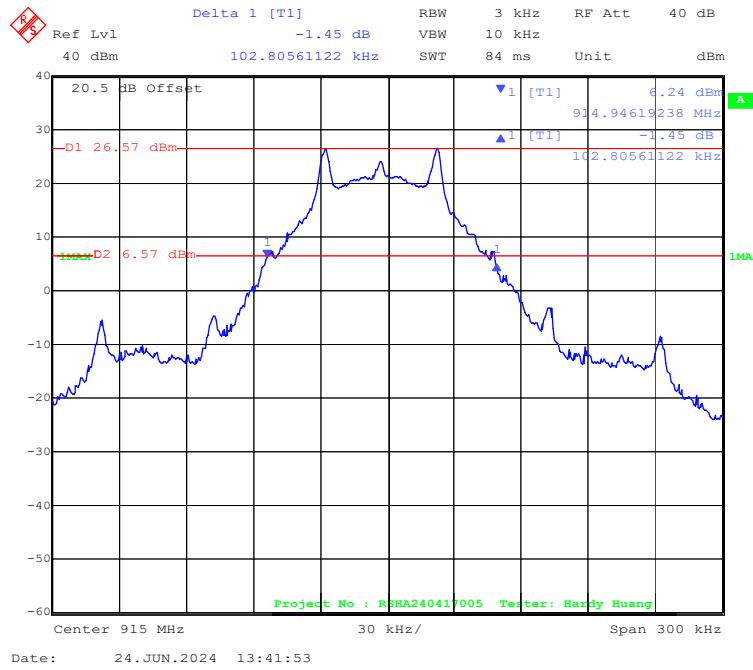
EUT operation mode: Transmitting

Channel	Frequency (MHz)	20 dB Emission Bandwidth (kHz)	Limit (kHz)
Low	902.2	102.2	≤500
Middle	915.0	102.8	≤500
High	927.8	96.79	≤500

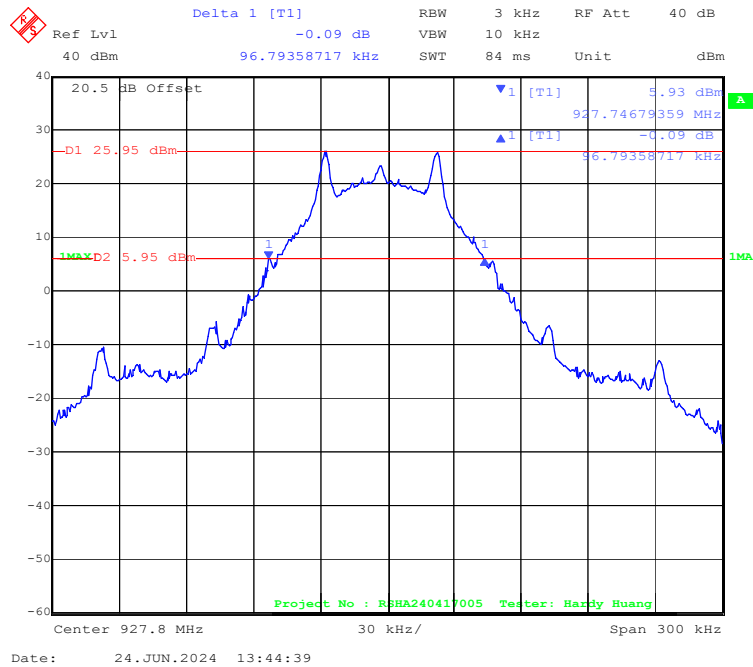
Low Channel



Middle Channel



High Channel



QUANTITY OF HOPPING CHANNEL TEST

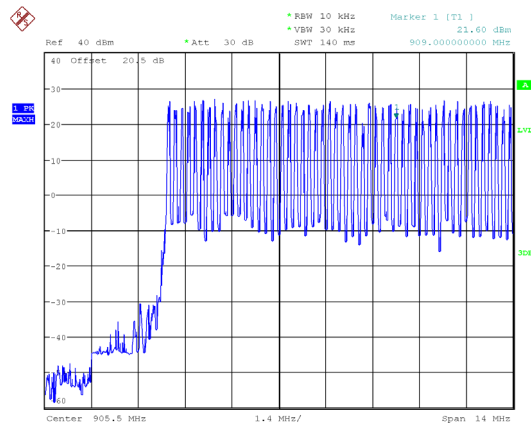
Test Result: Compliant.

EUT operation mode: Transmitting

Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
902~928	129	≥50

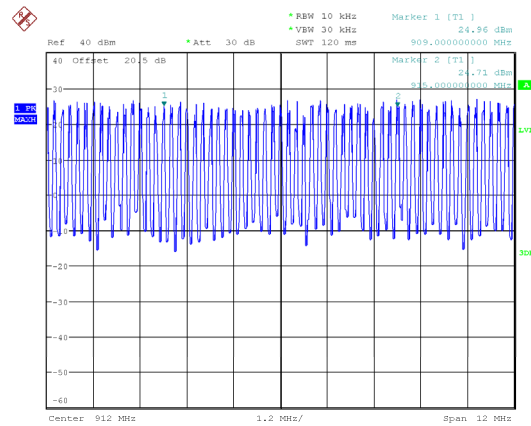
Number of Hopping Channels

902M~909M



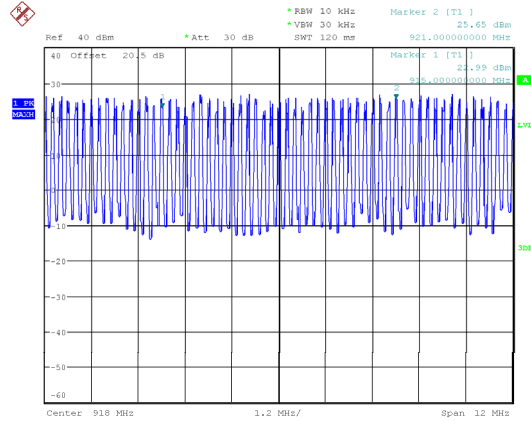
ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 11.MAR.2025 20:02:50

909M~915M



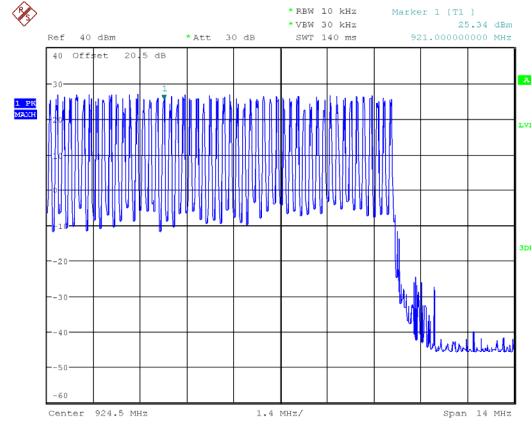
ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 12.MAR.2025 14:19:08

915M~921M



ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 12.MAR.2025 15:05:24

921M~928M



ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 12.MAR.2025 15:39:19

TIME OF OCCUPANCY (DWELL TIME)**Test Result:** Compliant.*EUT operation mode: Transmitting*

Channel	Frequency (MHz)	Burst Width (ms)	Total Hops (Num)	Dwell time (s)	Limit (s)	Result
Middle	915	22.76	2	0.04552	≤0.4	Pass

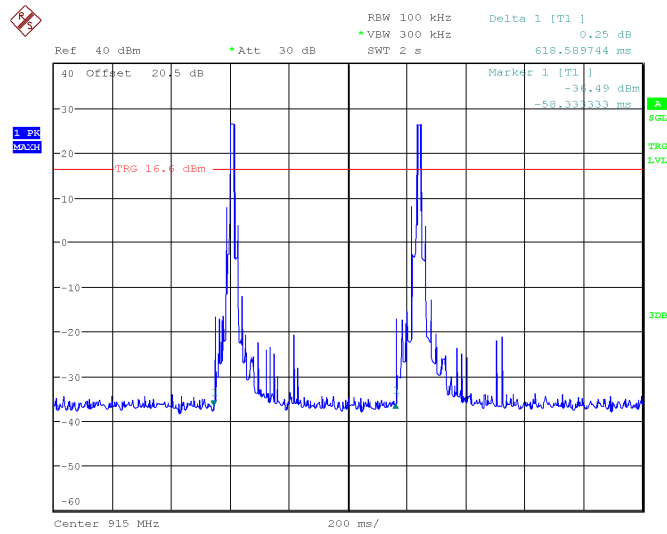
Burst Width(ms)=11.38*2=22.76ms

Middle Channel, 100s

ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 12.MAR.2025 17:07:00

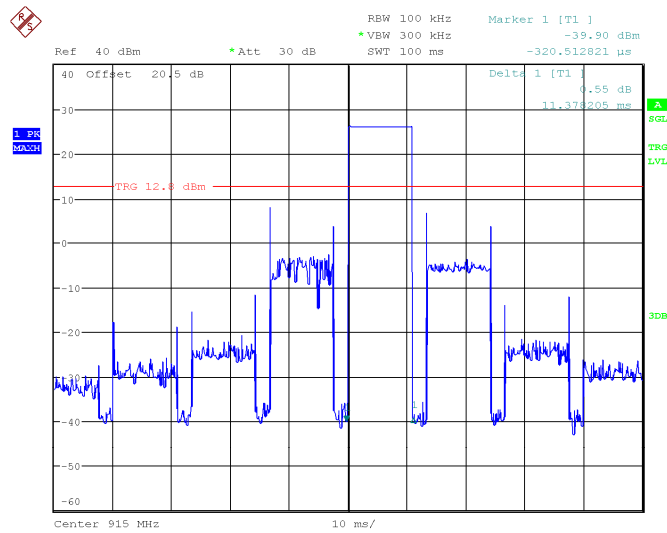
Note: Total Hops is 2 in 20s

Zoom in A



ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 12.MAR.2025 17:19:48

Pulse time, Middle Channel, 100ms



ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 12.MAR.2025 17:53:16

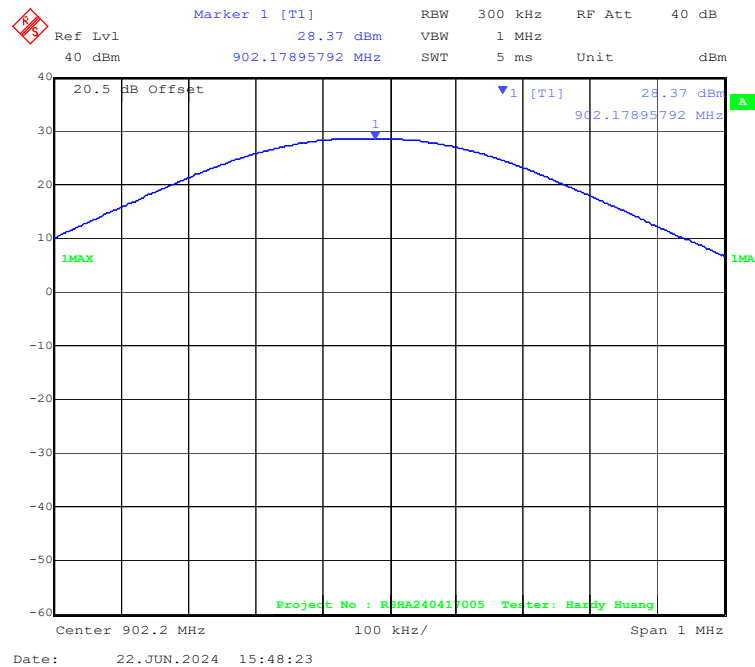
MAXIMUM CONDUCTED OUTPUT POWER

Test Result: Compliant.

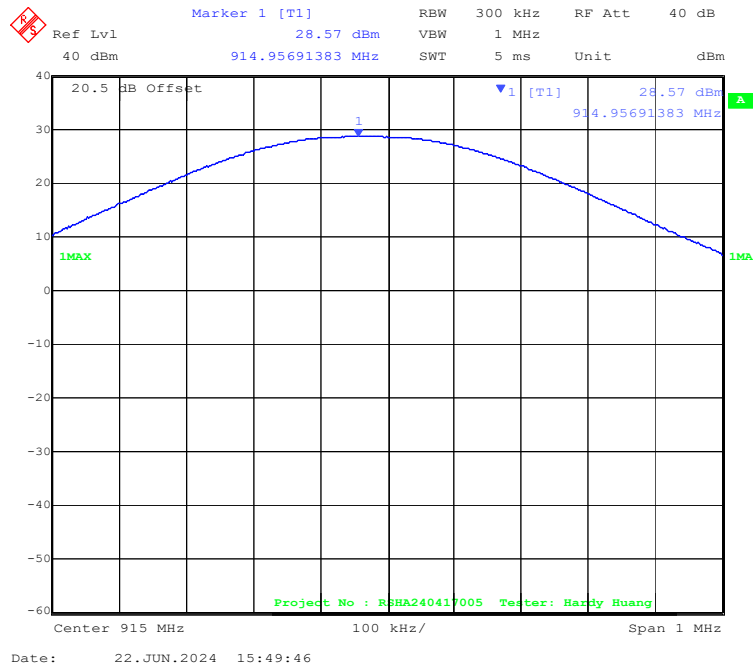
EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
Low	902.2	28.37	30	Pass
Middle	915.0	28.57	30	Pass
High	927.8	27.19	30	Pass

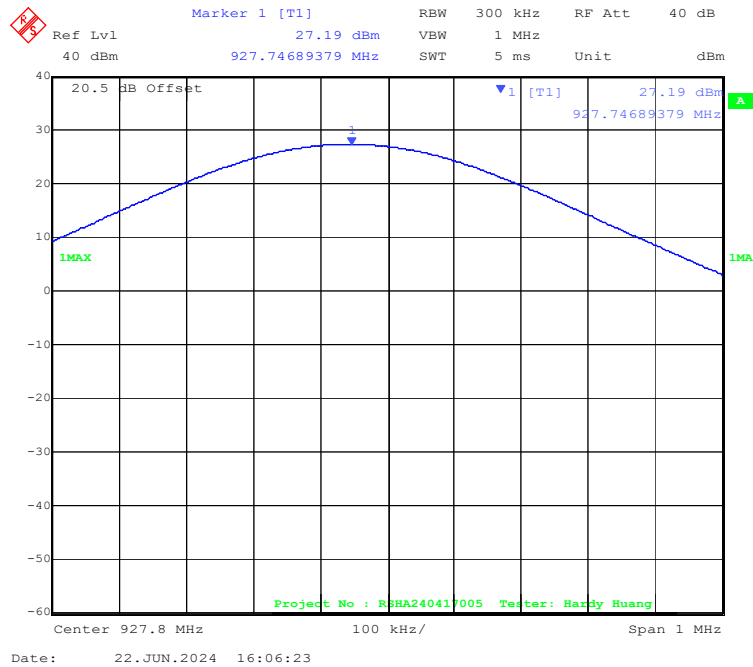
Low Channel



Middle Channel



High Channel

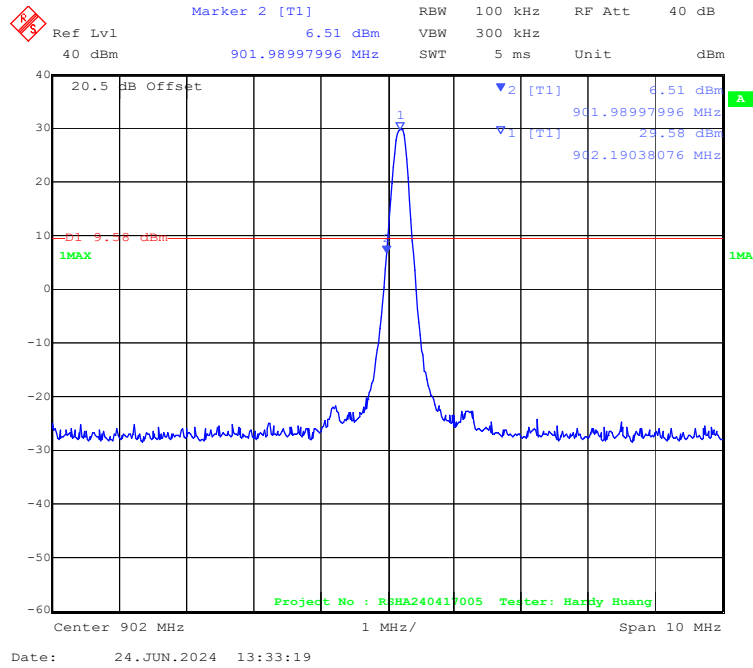


BAND EDGE

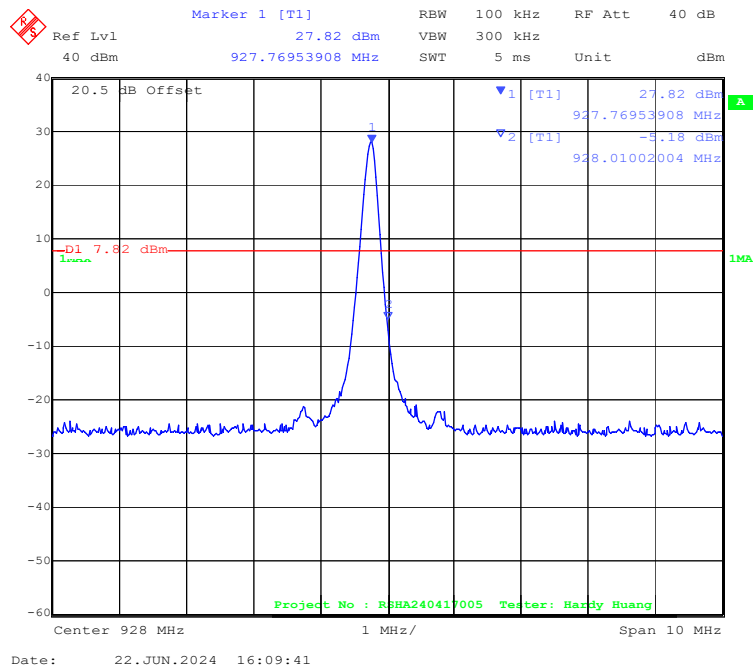
Test Result: Compliant.

EUT operation mode: Transmitting

Left Side

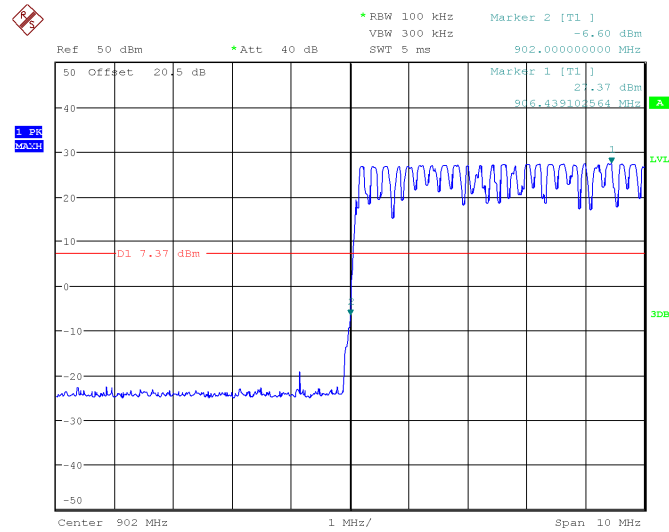


Right Side



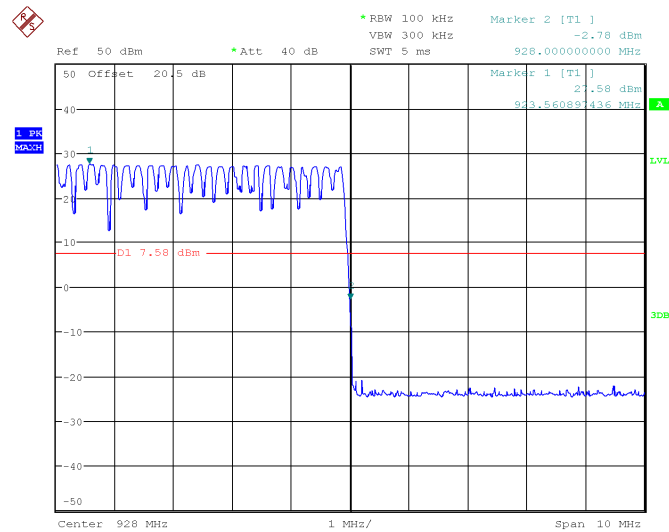
Hopping

Left Side



ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 11.MAR.2025 15:40:09

Right Side



ProjectNo.:RSHA240417005 Tester:Neil Zhou
Date: 11.MAR.2025 16:52:19

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

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