

FCC PART 15.247

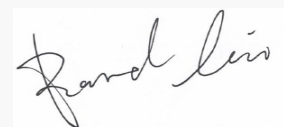
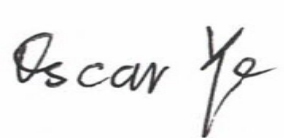
TEST REPORT

For

ZHEJIANG JIECANG LINEAR MOTION TECHNOLOGY CO., LTD

No.19 XinTao Road, Provincial High Tech Park, XinChang county, ZheJiang Province, 312500 China

FCC ID: 2ANKDJCHR35H6

Report Type: Original Report	Product Name: remote control
Report Number: RSHA240925006-00A	
Report Date: 2025-05-23	
Reviewed By: Bard Liu	
Approved By: Oscar Ye	
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.

TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
DESCRIPTION OF TEST CONFIGURATION	7
EQUIPMENT MODIFICATIONS	7
EUT EXERCISE SOFTWARE	7
SUPPORT EQUIPMENT LIST AND DETAILS	8
EXTERNAL I/O CABLE.....	9
BLOCK DIAGRAM OF TEST SETUP	9
SUMMARY OF TEST RESULTS	11
TEST EQUIPMENT LIST	12
FCC §1.1310 & §2.1093 - RF EXPOSURE.....	13
MEASUREMENT RESULT	13
FCC §15.203 - ANTENNA REQUIREMENT.....	14
APPLICABLE STANDARD	14
ANTENNA CONNECTOR CONSTRUCTION	14
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	15
APPLICABLE STANDARD	15
TEST SYSTEM SETUP.....	15
EMI TEST RECEIVER SETUP.....	16
TEST PROCEDURE	17
TEST RESULTS SUMMARY	17
TEST DATA: SEE APPENDIX	17
FCC §15.247(A) (2) - 6 DB EMISSION BANDWIDTH.....	18
APPLICABLE STANDARD	18
TEST PROCEDURE	18
TEST DATA: SEE APPENDIX	18
FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER	19
APPLICABLE STANDARD	19
TEST PROCEDURE	19
TEST DATA: SEE APPENDIX	19
FCC §15.247(D) - 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE.....	20
APPLICABLE STANDARD	20
TEST PROCEDURE	20
TEST DATA: SEE APPENDIX	20
FCC §15.247(E) - POWER SPECTRAL DENSITY.....	21
APPLICABLE STANDARD	21
TEST PROCEDURE	21
TEST DATA: SEE APPENDIX	21
APPENDIX - TEST DATA.....	22
ENVIRONMENTAL CONDITIONS & TEST INFORMATION.....	22

SPURIOUS EMISSIONS.....	23
6 dB EMISSION BANDWIDTH.....	43
MAXIMUM CONDUCTED OUTPUT POWER.....	44
100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	45
POWER SPECTRAL DENSITY	46
EUT PHOTOGRAPHS	47
TEST SETUP PHOTOGRAPHS	48

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA240925006-00A	R1V1	2025-05-23	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	ZHEJIANG JIECANG LINEAR MOTION TECHNOLOGY CO., LTD
Product Name:	remote control
Tested Model:	JCHR35H6
Series Model:	JCHR35H6A, JCHR35H6B, JCHR35H6C, JCHR35H6D, JCHR35H6E
Model Difference:	Model name, Number of keys, Type of lamp, Power supply interior
Power Supply:	DC 4.5V
RF Function:	SRD
Operating Band/Frequency:	2404-2479 MHz
Maximum Peak Output Power:	-0.45 dBm
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	-2.38 dBi

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

All measurement and test data in this report was gathered from production sample serial number: RSHA240925006-1 (JCHR35H6), RSHA240925006-2 (JCHR35H6E) (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-09-25.)

Objective

This report is prepared for *ZHEJIANG JIECANG LINEAR MOTION TECHNOLOGY CO., LTD* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions' rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 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 Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
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

Description of Test Configuration

Test channel list as below:

Channel	Frequency (MHz)
4	2404
6	2406
11	2411
19	2419
24	2424
33	2433
54	2454
69	2469
79	2479

Equipment Modifications

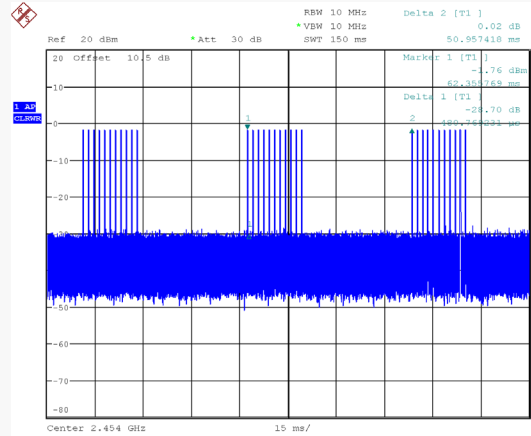
No modification was made to the EUT tested.

EUT Exercise Software

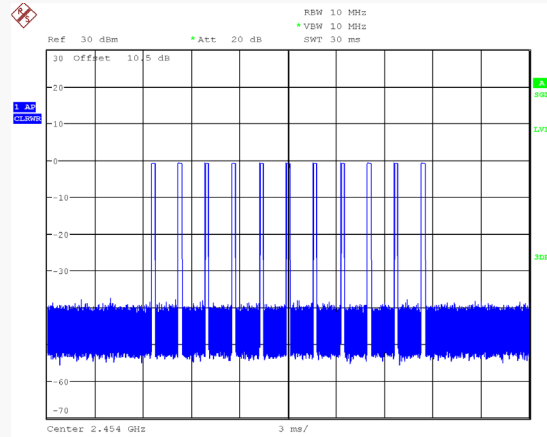
RF Test Software: XCOM V2.2

Mode	Frequency (MHz)	★Power Level
SRD	2404	Default
	2454	Default
	2479	Default

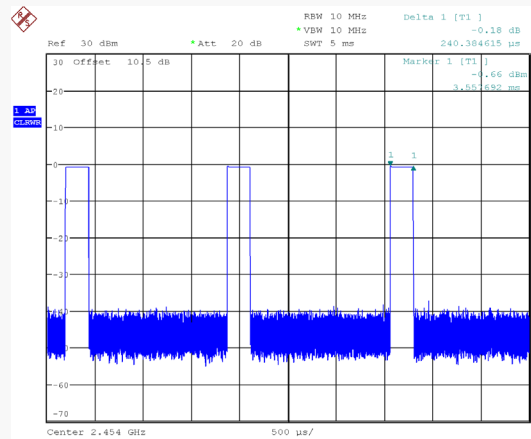
Note: The power level was declared by the applicant.

Duty Cycle:**Middle Channel**

ProjectNo.:RSHA240925006 Tester:Neil Zhou
Date: 1.NOV.2024 10:22:43



ProjectNo.:RSHA240925006 Tester:Neil Zhou
Date: 1.NOV.2024 10:29:25



ProjectNo.:RSHA240925006 Tester:Neil Zhou
Date: 1.NOV.2024 10:30:22

Channel	Duty Cycle (%)	Ton (ms)	Ton+off (ms)
Middle	5.19	2.64	50.96

Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Support Equipment List and Details

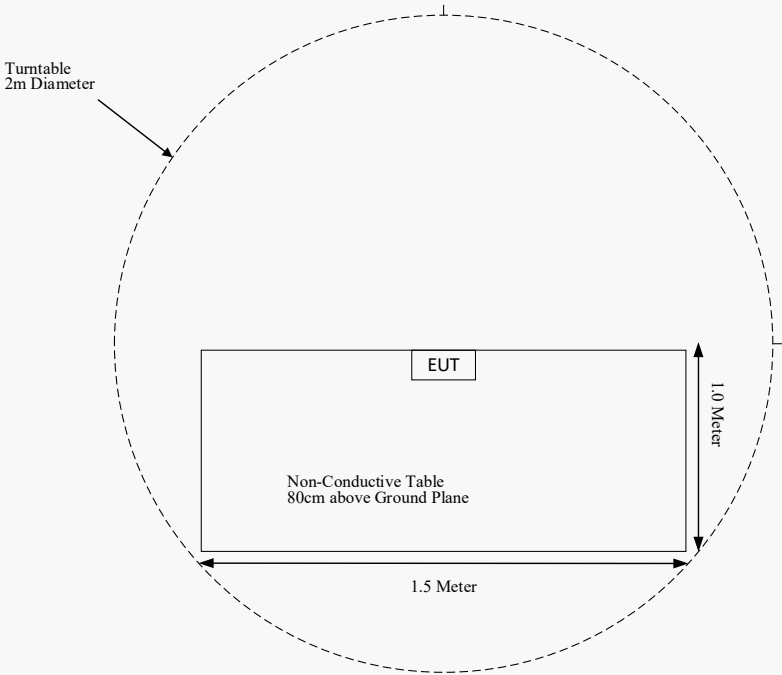
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

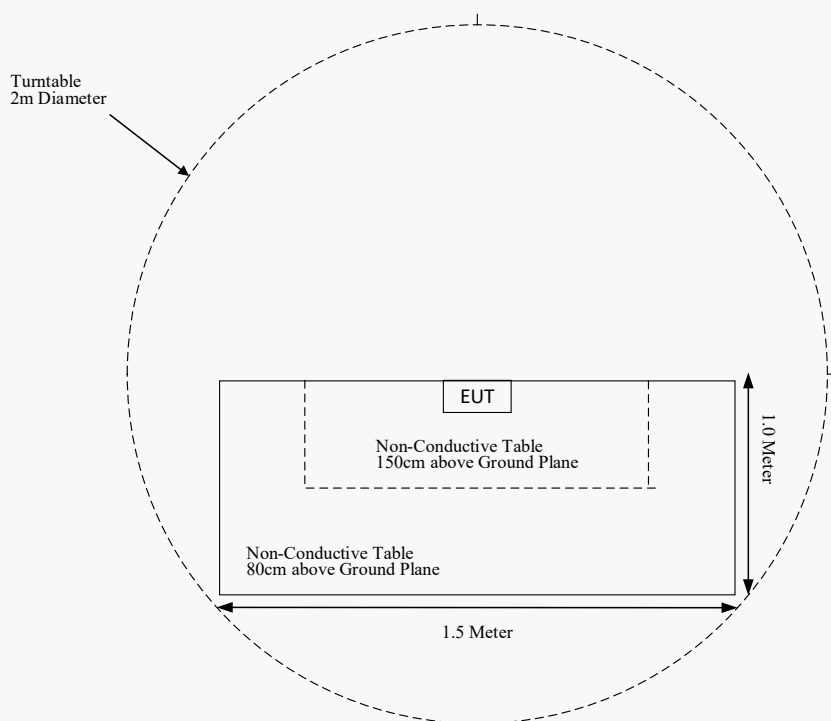
Cable Description	Length(m)	From Port	To Port
/	/	/	/

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Not Applicable (See Note)
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note: The EUT powered by battery.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2023-11-11	2024-11-10
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08
Sonoma Instrument	Amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
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
Narda	6dB Attenuator	773-6	10690812-2-1	2023-11-11	2024-11-10
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01
ETS-LINDGREN	Horn Antenna	3116	84159	2023-12-07	2024-12-06
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
EM Electronics Corporation	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-05-23	2025-05-22
Narda	Attenuator	10dB	010	2024-04-23	2025-04-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-23	2025-04-22
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	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2024-04-24	2025-04-23
Anritsu	Power Sensor	MA24418A	12621	2024-04-23	2025-04-22
Narda	Attenuator	10 dB	010	2024-08-15	2025-08-14
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

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 §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1307(b)(1), 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.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency Range (MHz)	Max Tune-up Conducted Power★		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
SRD	2404-2479	0.00	1.00	5	0.30	3.0	Yes

Note: The Tune-up power provide by applicant.

Result: No SAR test is required.

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.

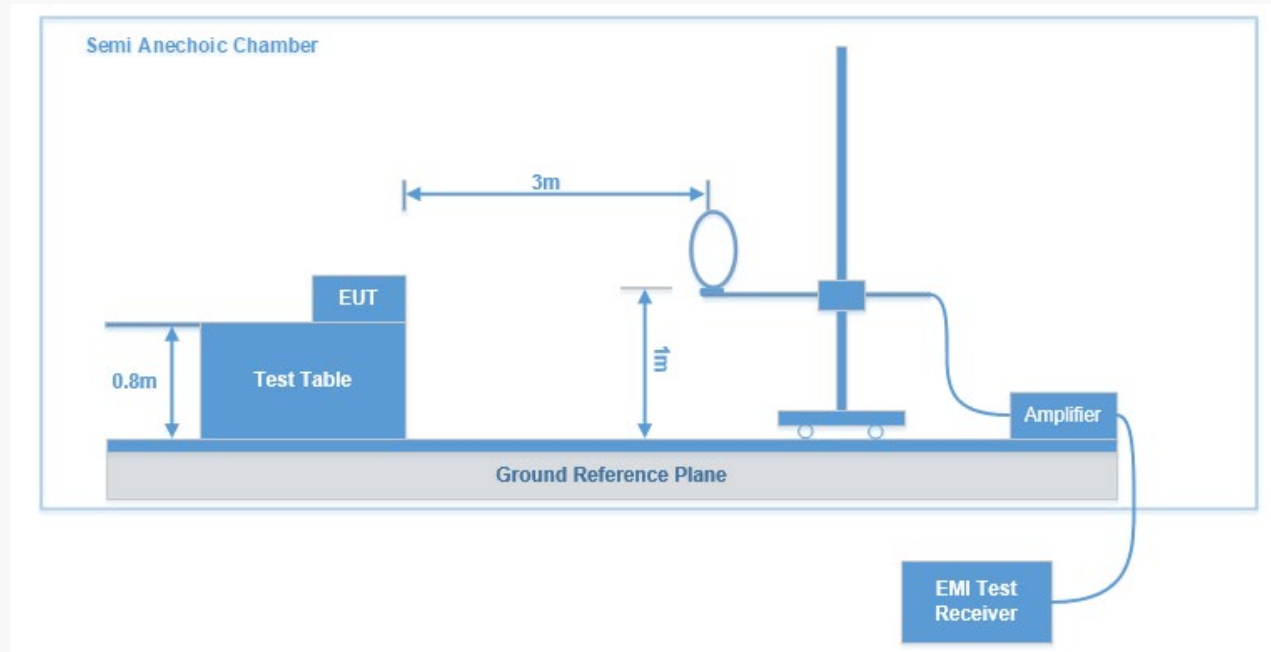
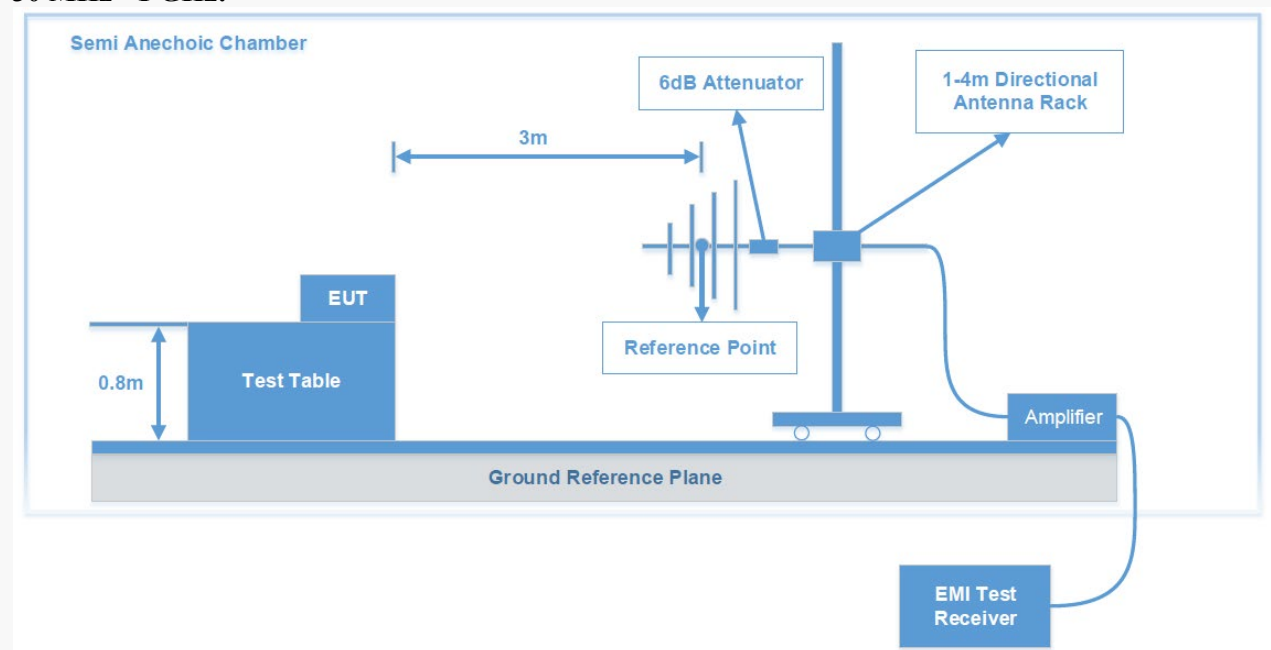
Antenna Connector Construction

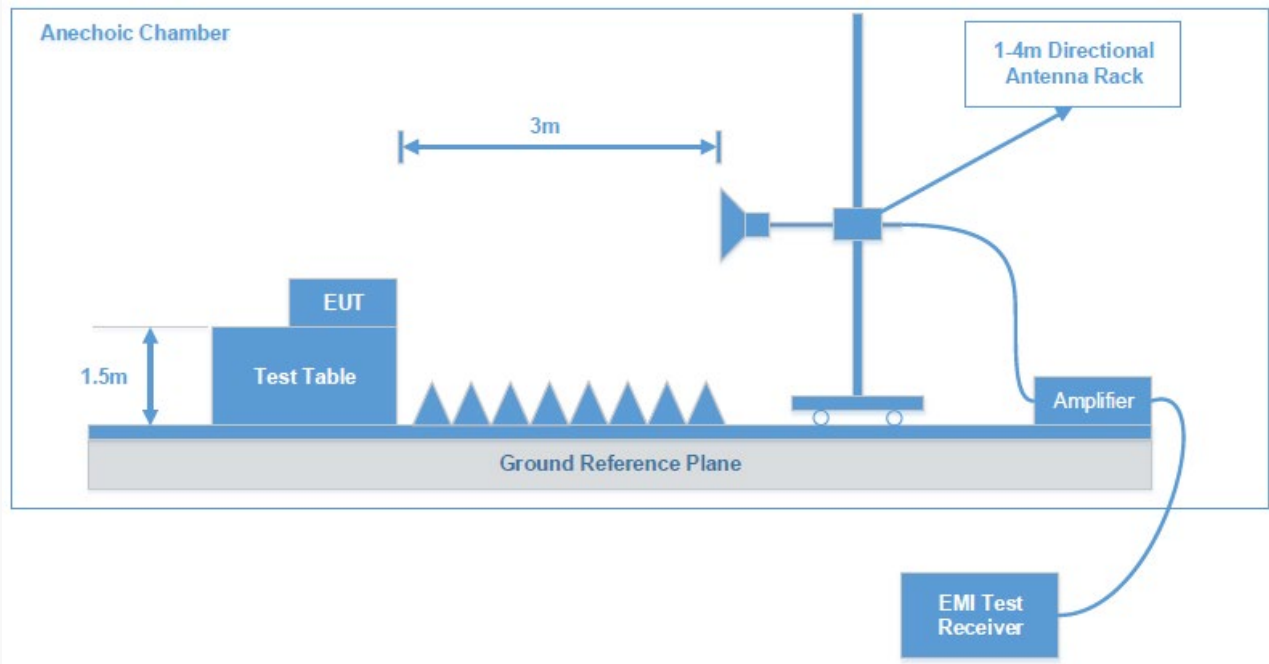
The EUT has a PCB Antenna for SRD and the antenna gain is -2.38 dBi, the antenna was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

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 - 30 MHz:****30 MHz - 1 GHz:**

1 GHz - 25 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

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

Frequency Range	RBW	VBW	IF B/W	Measurement
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

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.

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 - 1GHz, peak and Average detection mode for frequencies above 1 GHz.

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)

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)

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

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 Appendix

FCC §15.247(A) (2) - 6 DB EMISSION BANDWIDTH

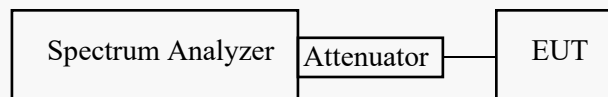
Applicable Standard

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.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

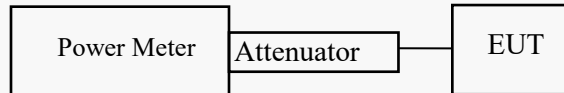
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted 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.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

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.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(D) - 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

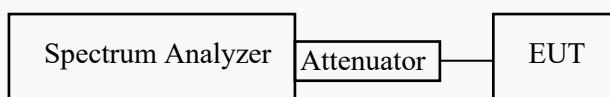
Applicable Standard

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 Compliant 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.
5. Repeat above procedures until all measured frequencies were complete.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

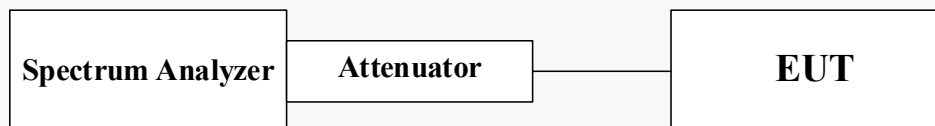
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

1. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
2. Set the VBW $\geq 3 * \text{RBW}$.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

APPENDIX - TEST DATA

Environmental Conditions & Test Information

Test Item:	SPURIOUS EMISSIONS			
	9 kHz - 1GHz		1GHz - 18GHz	18GHz - 25GHz
Test Date:	2024-11-18	2024-10-31	2024-11-01	2024-11-15
Temperature:	22.5°C	21.9 °C	21.3 °C	22.3 °C
Relative Humidity:	65 %	67 %	53 %	51 %
ATM Pressure:	101.6 kPa	101.7 kPa	101.2kPa	101.0 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Jerry Yan	Jerry Yan	Destine Hu	Hugh Wu

Test Item:	DUTY CYCLE	6 DB EMISSION BANDWIDTH	MAXIMUM CONDUCTED OUTPUT POWER
Test Date:	2024-11-01	2024-11-01	2024-11-12
Temperature:	21.3 °C	21.3 °C	21.6 °C
Relative Humidity:	53 %	53 %	50%
ATM Pressure:	101.2kPa	101.2kPa	101.6kPa
Test Result:	/	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou	Neil Zhou

Test Item:	POWER SPECTRAL DENSITY	MAXIMUM CONDUCTED OUTPUT POWER	100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE
Test Date:	2024-11-01	2024-11-01	2024-11-01
Temperature:	21.3 °C	21.3 °C	21.3 °C
Relative Humidity:	53 %	53 %	53 %
ATM Pressure:	101.2kPa	101.2kPa	101.2kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou	Neil Zhou

SPURIOUS EMISSIONS

Model: JCHR35H6

EUT operation mode: Transmitting

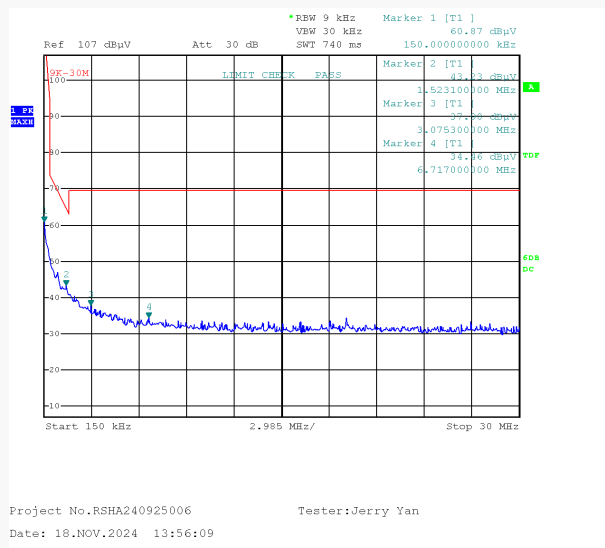
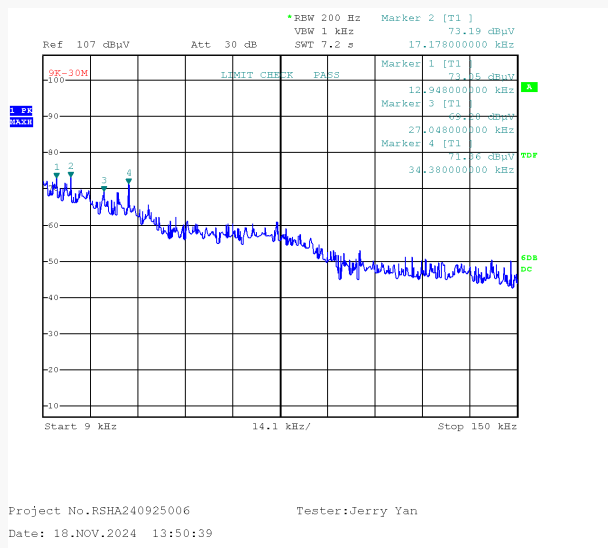
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30 MHz: Transmitting in maximum output power middle channel.

Parallel(worst case)

9kHz-150kHz

150kHz-30MHz



9kHz-150kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.012948	73.05	PK	54.49	125.36	52.31
0.017178	73.19	PK	51.80	122.91	49.72
0.027048	69.28	PK	48.03	118.96	49.68
0.03438	71.36	PK	46.06	116.88	45.52

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	60.87	PK	50.90	104.08	43.21
1.52310	43.23	PK	8.20	63.95	20.72
3.07530	37.9	PK	10.86	69.54	31.64
6.71700	34.46	PK	6.91	69.54	35.08

EUT operation mode: transmitting

30MHz - 1GHz:

Low Channel: 2404MHz

Common Information

Project No:RSHA240925006

EUT Model:JCHR35H6

Test Mode:Transmitting

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

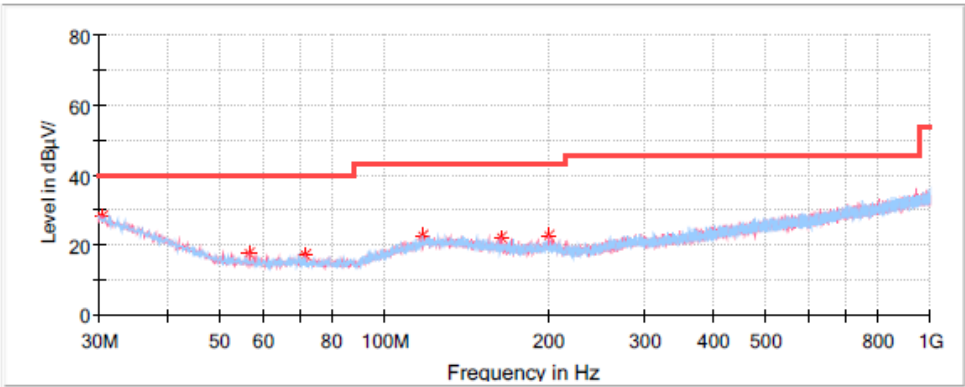
Temperature:21.9℃

Humidity:67%

Barometric Pressure:101.7kPa

Test Engineer:Jerry Yan

Test Date:2024/10/31

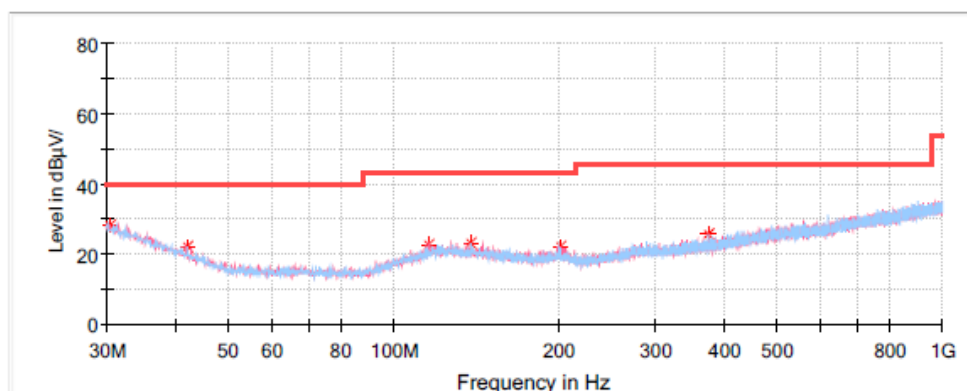


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	28.03	40.00	11.97	V	-5.0
56.553750	17.39	40.00	22.61	V	-17.3
71.710000	16.89	40.00	23.11	V	-17.1
117.300000	22.49	43.50	21.01	H	-11.4
164.345000	22.35	43.50	21.15	V	-12.3
200.113750	22.44	43.50	21.06	V	-12.2

Middle Channel: 2454 MHz**Common Information**

Project No: RSHA240925006
EUT Model: JCHR35H6
Test Mode: Transmitting
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: 21.9°C
Humidity: 67%
Barometric Pressure: 101.7kPa
Test Engineer: Jerry Yan
Test Date: 2024/10/31

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	28.38	40.00	11.62	V	-5.0
42.125000	21.90	40.00	18.10	H	-12.6
116.208750	22.66	43.50	20.84	V	-11.6
138.761250	22.95	43.50	20.55	H	-11.4
202.175000	22.33	43.50	21.17	V	-12.3
375.805000	25.76	46.00	20.24	H	-8.6

High Channel: 2479 MHz

Common Information

Project No:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Receiver Setting:

Temperature:

Humidity:

Barometric Pressure:

Test Engineer:

Test Date:

RSHA240925006

JCHR35H6

Transmitting

FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247

ESCI, JB3, 310N

RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto

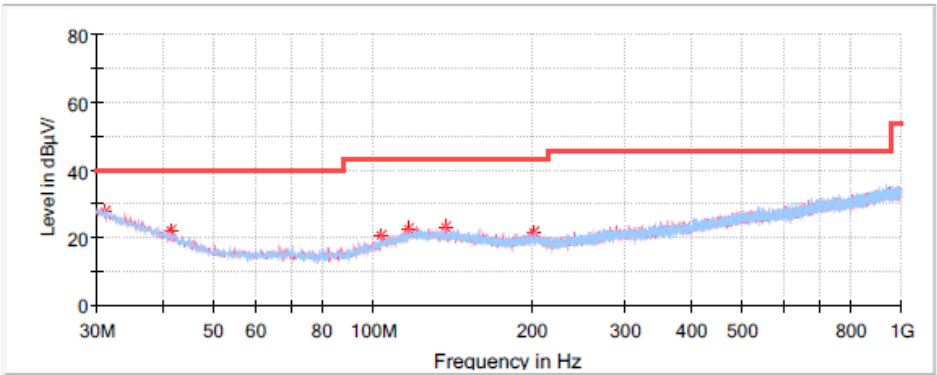
21.9℃

67%

101.7kPa

Jerry Yan

2024/10/31



Critical Freqs

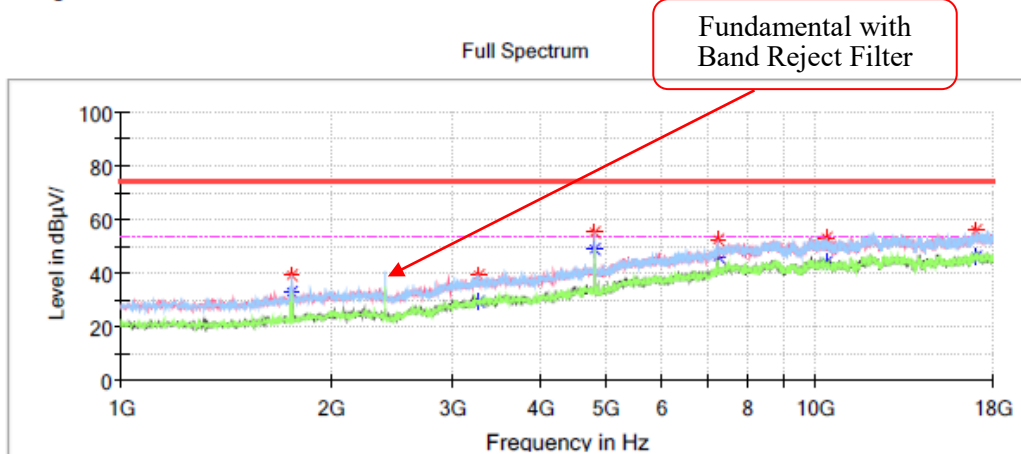
Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.091250	27.51	40.00	12.49	H	-5.5
41.518750	21.97	40.00	18.03	V	-12.3
103.962500	20.40	43.50	23.10	V	-13.7
116.693750	22.47	43.50	21.03	V	-11.5
137.670000	23.20	43.50	20.30	V	-11.4
201.568750	21.71	43.50	21.79	V	-12.3

1GHz - 18GHz:

Low Channel: 2404MHz

Common Information

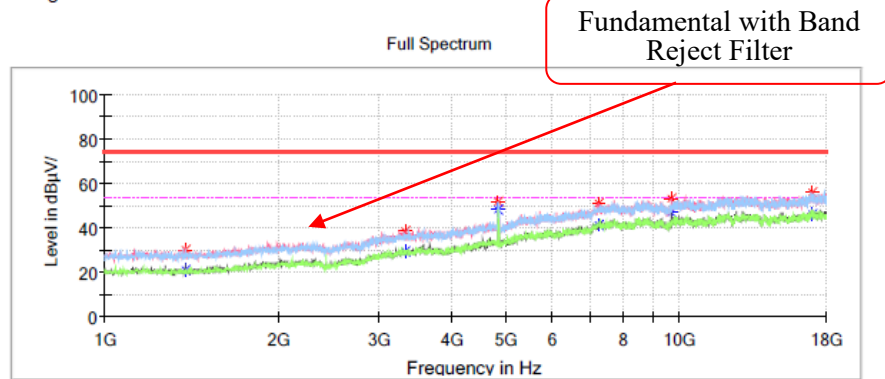
Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
1761.600000	---	32.77	54.00	21.23	H	-13.2
1761.600000	39.45	---	74.00	34.55	H	-13.2
3267.800000	---	29.48	54.00	24.52	H	-7.3
3267.800000	38.85	---	74.00	35.15	H	-7.3
4808.000000	55.36	---	74.00	18.64	H	-3.1
4808.000000	---	48.80	54.00	5.20	H	-3.1
7211.800000	52.39	---	74.00	21.61	V	3.2
7211.800000	---	45.89	54.00	8.11	V	3.2
10361.900000	---	44.04	54.00	9.96	V	7.1
10361.900000	52.93	---	74.00	21.07	V	7.1
17012.300000	56.03	---	74.00	17.97	V	12.3
17012.300000	---	46.17	54.00	7.83	V	12.3

Middle Channel: 2454 MHz**Common Information**

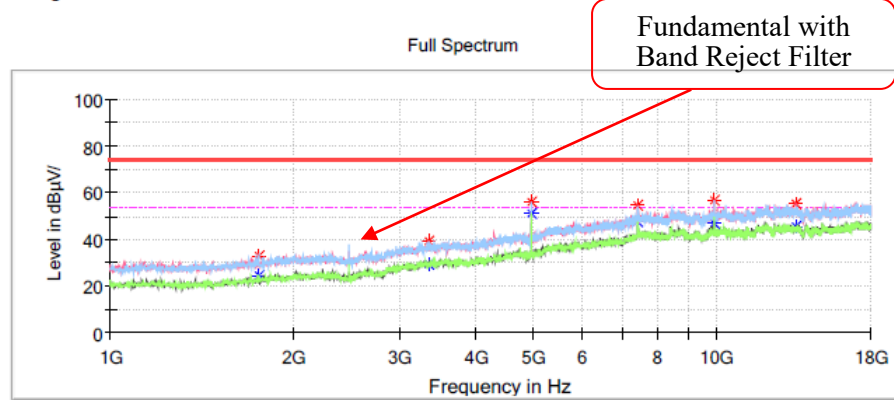
Project No.: RSHA240925006
 Test Mode: Transmitting
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

**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)
1384.200000	30.01	---	74.00	43.99	V	-14.9
1384.200000	---	20.65	54.00	33.35	V	-14.9
3323.900000	---	29.10	54.00	24.90	V	-7.1
3323.900000	38.62	---	74.00	35.38	V	-7.1
4847.100000	51.44	---	74.00	22.56	H	-3.0
4847.100000	---	48.26	54.00	5.74	H	-3.0
7245.800000	---	41.50	54.00	12.50	H	3.2
7245.800000	51.05	---	74.00	22.95	H	3.2
9695.500000	---	47.10	54.00	6.90	V	6.1
9695.500000	53.37	---	74.00	20.63	V	6.1
17051.400000	---	46.43	54.00	7.57	V	12.2
17051.400000	56.26	---	74.00	17.74	V	12.2

High Channel: 2479 MHz**Common Information**

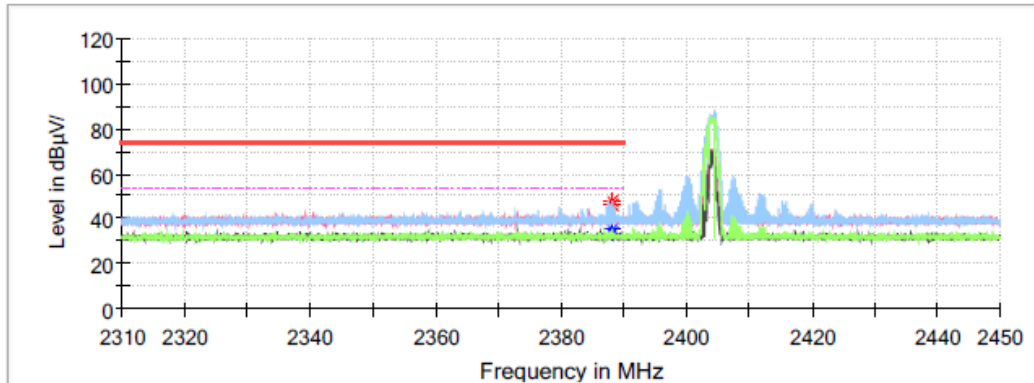
Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
1753.100000	---	24.54	54.00	29.46	H	-13.2
1753.100000	33.01	---	74.00	40.99	H	-13.2
3347.700000	---	29.70	54.00	24.30	H	-7.0
3347.700000	39.15	---	74.00	34.85	H	-7.0
4957.600000	55.62	---	74.00	18.38	H	-2.6
4957.600000	---	51.26	54.00	2.74	H	-2.6
7436.200000	54.48	---	74.00	19.52	V	3.7
7436.200000	---	47.43	54.00	6.57	V	3.7
9914.800000	56.81	---	74.00	17.19	V	6.9
9914.800000	---	47.15	54.00	6.85	V	6.9
13554.500000	---	45.33	54.00	8.67	V	9.6
13554.500000	55.11	---	74.00	18.89	V	9.6

Band Edge:**Low Channel****Common Information**

Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

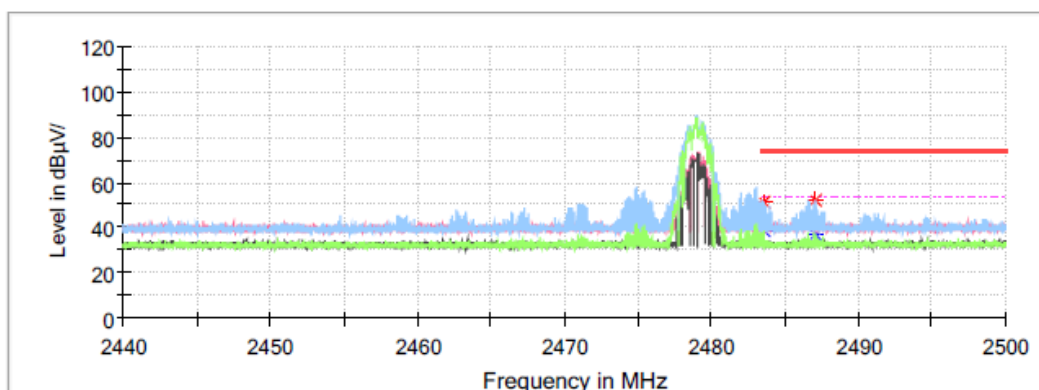
Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2388.106000	---	35.23	54.00	18.77	H	-4.6
2388.106000	46.26	---	74.00	27.74	H	-4.6
2388.246000	---	33.63	54.00	20.37	H	-4.6
2388.246000	47.77	---	74.00	26.23	H	-4.6

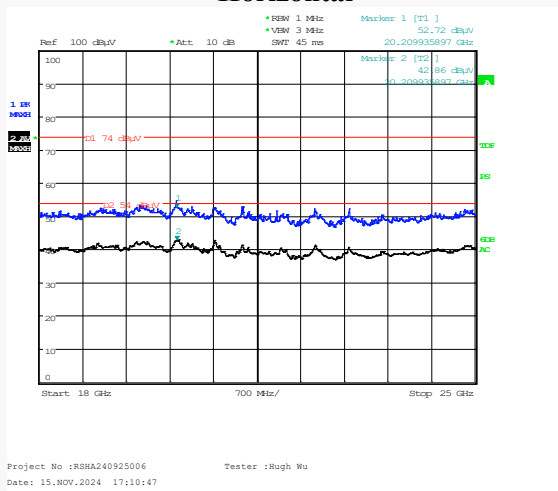
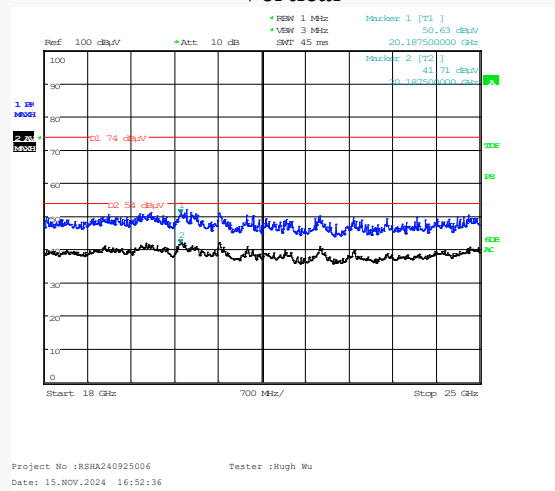
High Channel**Common Information**

Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

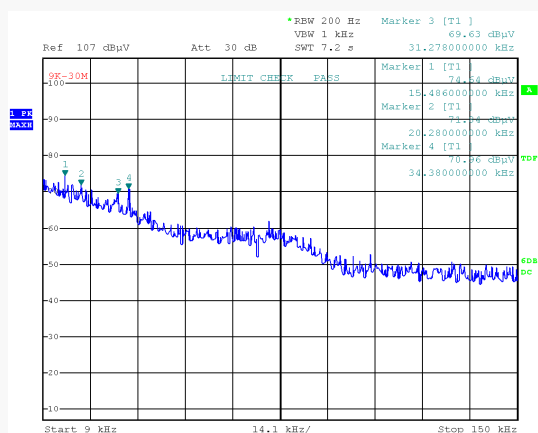
Full Spectrum

**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)
2483.542000	51.49	---	74.00	22.51	H	-4.3
2483.542000	---	38.28	54.00	15.72	H	-4.3
2487.130000	52.44	---	74.00	21.56	H	-4.2
2487.130000	---	36.66	54.00	17.34	H	-4.2

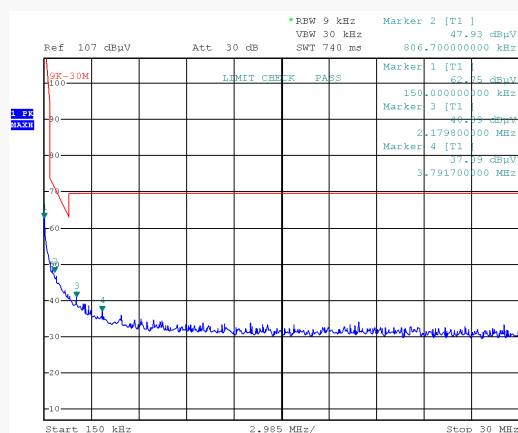
18GHz-25GHz: Transmitting in maximum output power middle channel**Horizontal****Vertical**

Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20187.50	---	41.71	54	12.29	V	12.45
20187.50	50.63	---	74	23.37	V	12.45
20209.94	---	42.86	54	11.14	H	12.47
20209.94	52.72	---	74	21.28	H	12.47

Model: JCHR35H6E*EUT operation mode: Transmitting**After pre-scan in the X, Y and Z axes of orientation, the worst case is below:***9 kHz-30 MHz:** (Transmitting maximum output power middle channel)**Parallel(worst case)****9kHz-150kHz****150kHz-30MHz**

Project No. RSHA240925006
Date: 18.NOV.2024 14:00:50

Tester: Jerry Yan



Project No. RSHA240925006
Date: 18.NOV.2024 14:06:22

Tester: Jerry Yan

9kHz-150kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.015486	74.64	PK	52.87	123.81	49.17
0.02028	71.84	PK	49.92	121.46	49.62
0.031278	69.63	PK	49.47	117.70	48.07
0.03438	70.96	PK	46.06	116.88	45.92

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	62.75	PK	50.90	104.08	41.33
0.80670	47.93	PK	19.50	69.47	21.54
2.17980	40.89	PK	13.65	69.54	28.65
3.79170	37.09	PK	17.17	69.54	32.45

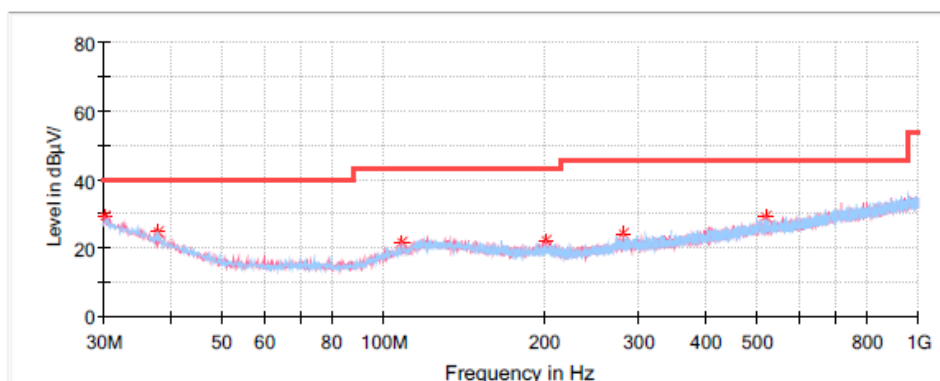
EUT operation mode: Transmitting

30MHz - 1GHz:

Low Channel: 2404MHz

Common Information

Project No:	RSHA240925006
EUT Model:	JCHR35H6E
Test Mode:	Transmitting
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:	21.9°C
Humidity:	67%
Barometric Pressure:	101.7kPa
Test Engineer:	Jerry Yan
Test Date:	2024/10/31

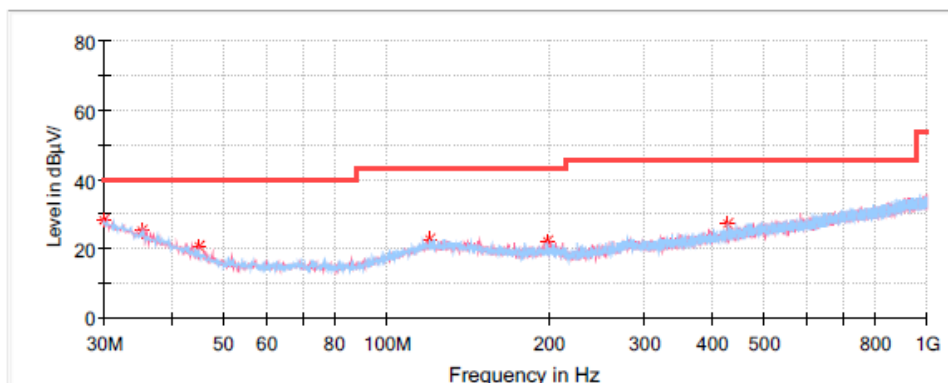


Critical Freqs

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	29.37	40.00	10.63	V	-4.8
38.002500	24.61	40.00	15.39	H	-10.1
108.570000	21.76	43.50	21.74	V	-12.9
201.205000	22.18	43.50	21.32	V	-12.3
280.623750	24.31	46.00	21.69	V	-10.6
518.880000	28.96	46.00	17.04	V	-5.2

Middle Channel: 2454 MHz**Common Information**

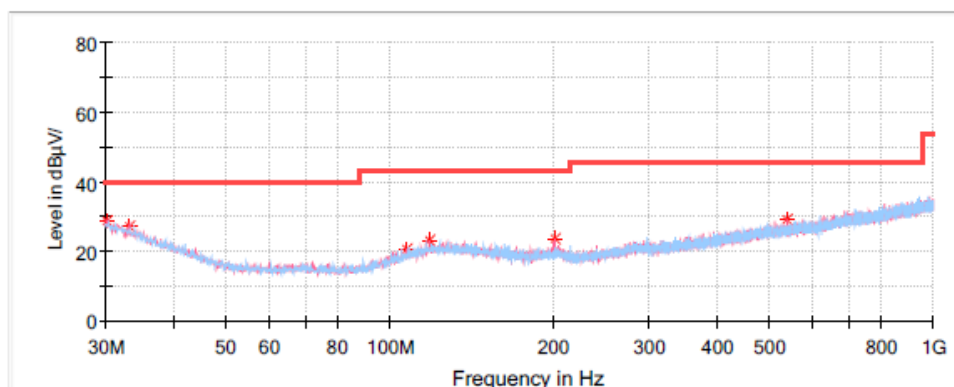
Project No: RSHA240925006
EUT Model: JCHR35H6E
Test Mode: Transmitting
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 21.9°C
Humidity: 67%
Barometric Pressure: 101.7 kPa
Test Engineer: Jerry Yan
Test Date: 2024/10/31

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.000000	28.39	40.00	11.61	V	-4.7
35.213750	25.26	40.00	14.74	V	-8.2
45.035000	20.88	40.00	19.12	V	-14.1
119.967500	22.74	43.50	20.76	V	-10.9
199.143750	22.02	43.50	21.48	V	-12.2
427.578750	27.17	46.00	18.83	H	-7.3

High Channel: 2479 MHz**Common Information**

Project No: RSHA240925006
EUT Model: JCHR35H6E
Test Mode: Transmitting
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: 21.9°C
Humidity: 67%
Barometric Pressure: 101.7kPa
Test Engineer: Jerry Yan
Test Date: 2024/10/31

**Critical Freqs**

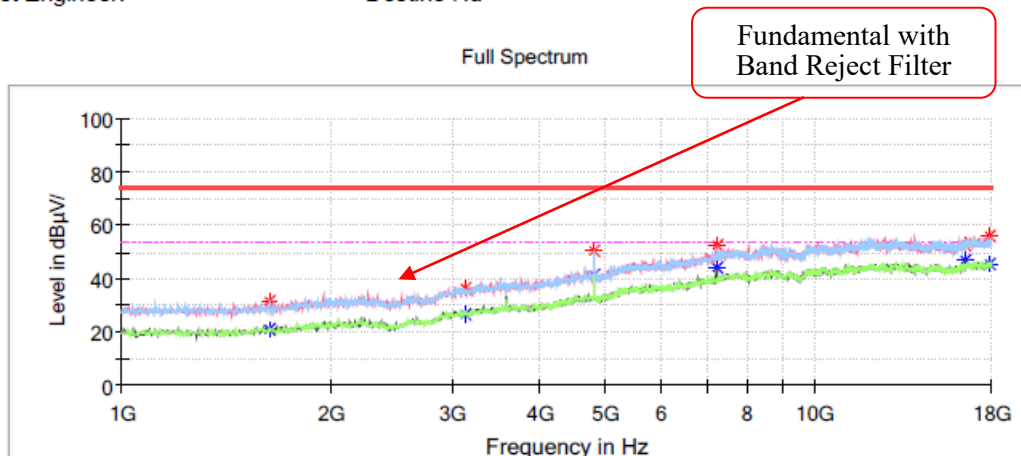
Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.242500	28.68	40.00	11.32	V	-4.9
33.152500	27.39	40.00	12.61	V	-6.8
107.721250	20.67	43.50	22.83	V	-13.1
118.512500	23.17	43.50	20.33	V	-11.1
200.962500	23.85	43.50	19.65	V	-12.3
539.492500	29.34	46.00	16.66	V	-4.9

1GHz - 18GHz:

Low Channel: 2404MHz

Common Information

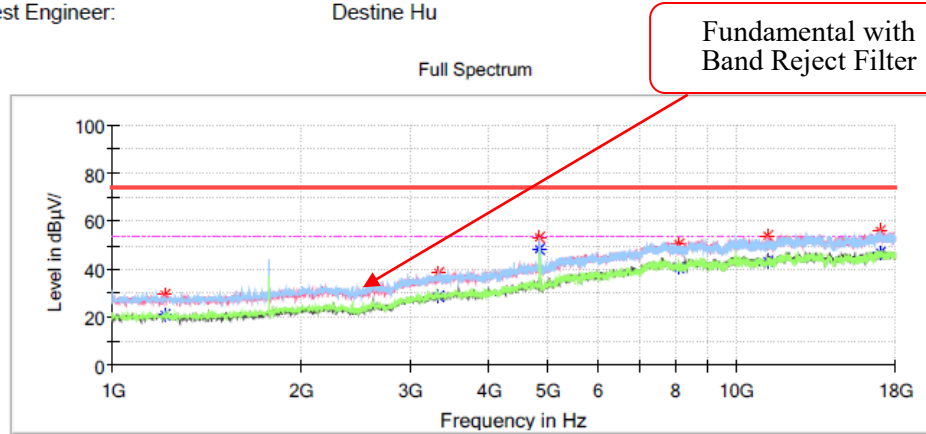
Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
1632.400000	---	20.84	54.00	33.16	V	-13.9
1632.400000	31.34	---	74.00	42.66	V	-13.9
3131.800000	---	26.86	54.00	27.14	V	-7.9
3131.800000	36.18	---	74.00	37.82	V	-7.9
4808.000000	---	41.45	54.00	12.55	H	-3.1
4808.000000	50.15	---	74.00	23.85	H	-3.1
7211.800000	---	43.85	54.00	10.15	V	3.2
7211.800000	52.73	---	74.00	21.27	V	3.2
16541.400000	52.28	---	74.00	21.72	V	10.9
16541.400000	---	46.59	54.00	7.41	V	10.9
17904.800000	---	45.40	54.00	8.60	H	11.9
17904.800000	55.96	---	74.00	18.04	H	11.9

Middle Channel: 2454 MHz**Common Information**

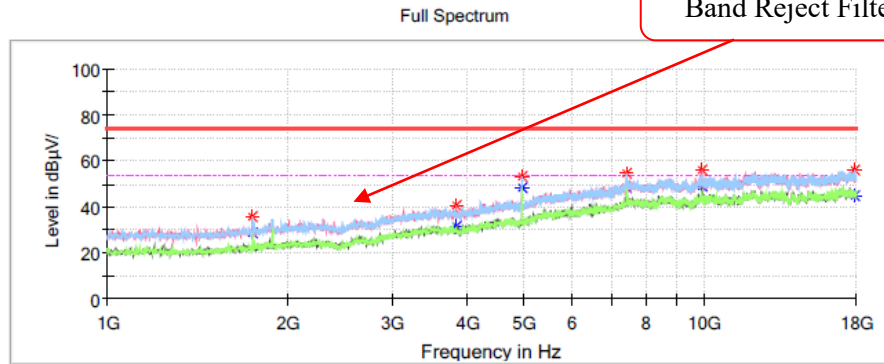
Project No.: RSHA240925006
 Test Mode: Transmitting
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

**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)
1212.500000	---	21.14	54.00	32.86	V	-15.1
1212.500000	29.25	---	74.00	44.75	V	-15.1
3322.200000	---	28.39	54.00	25.61	H	-7.1
3322.200000	38.18	---	74.00	35.82	H	-7.1
4847.100000	---	48.25	54.00	5.75	H	-3.0
4847.100000	53.38	---	74.00	20.62	H	-3.0
8092.400000	---	40.43	54.00	13.57	V	4.2
8092.400000	50.63	---	74.00	23.37	V	4.2
11249.300000	---	43.69	54.00	10.31	V	8.1
11249.300000	53.86	---	74.00	20.14	V	8.1
17005.500000	---	46.54	54.00	7.46	H	12.3
17005.500000	55.67	---	74.00	18.33	H	12.3

High Channel: 2479 MHz**Common Information**

Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

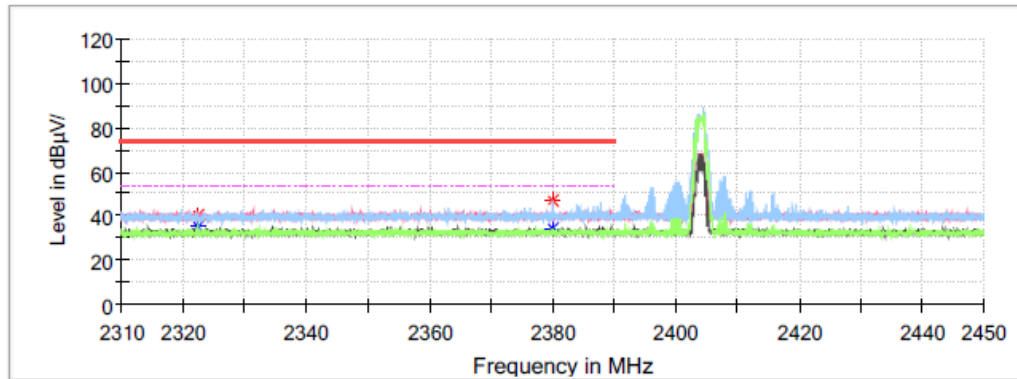
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1746.300000	---	28.35	54.00	25.65	H	-13.3
1746.300000	35.92	---	74.00	38.08	H	-13.3
3833.900000	---	31.47	54.00	22.53	V	-6.1
3833.900000	40.54	---	74.00	33.46	V	-6.1
4957.600000	53.13	---	74.00	20.87	H	-2.6
4957.600000	---	48.12	54.00	5.88	H	-2.6
7436.200000	54.22	---	74.00	19.78	H	3.7
7436.200000	---	47.97	54.00	6.03	H	3.7
9916.500000	55.86	---	74.00	18.14	V	6.9
9916.500000	---	48.87	54.00	5.13	V	6.9
17932.000000	56.13	---	74.00	17.87	H	11.9
17932.000000	---	44.87	54.00	9.13	H	11.9

Band Edge:**Low Channel****Common Information**

Project No.:	RSHA240925006
Test Mode:	Transmitting
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum

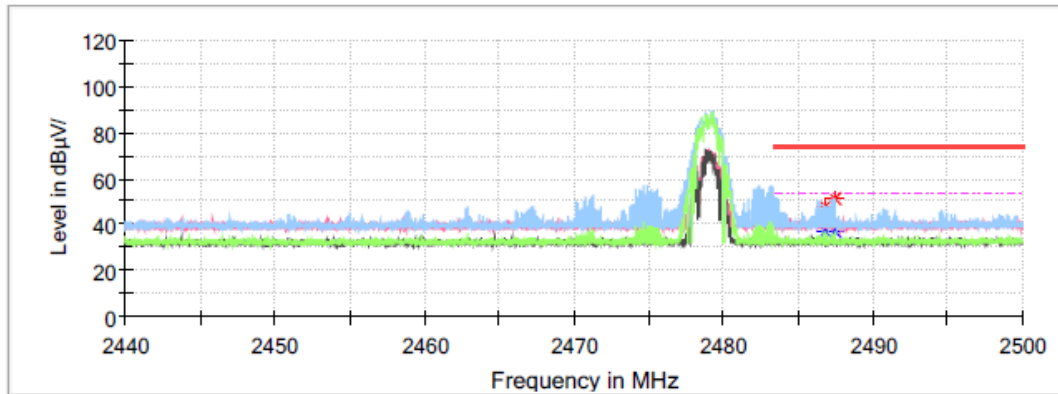
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2322.222000	40.48	---	74.00	33.52	H	-4.8
2322.222000	---	35.25	54.00	18.75	H	-4.8
2380.028000	46.78	---	74.00	27.22	H	-4.6
2380.028000	---	34.16	54.00	19.84	H	-4.6

High Channel**Common Information**

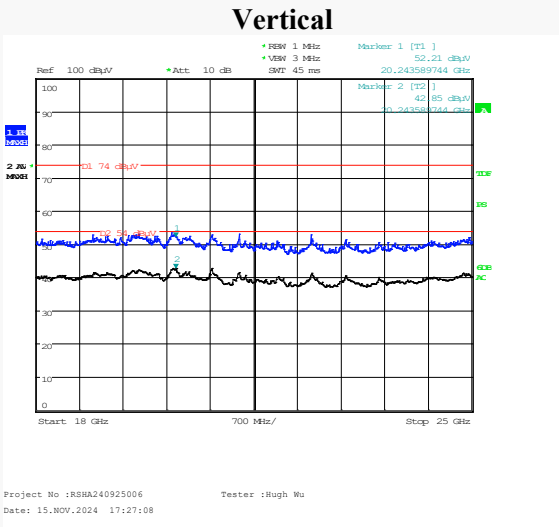
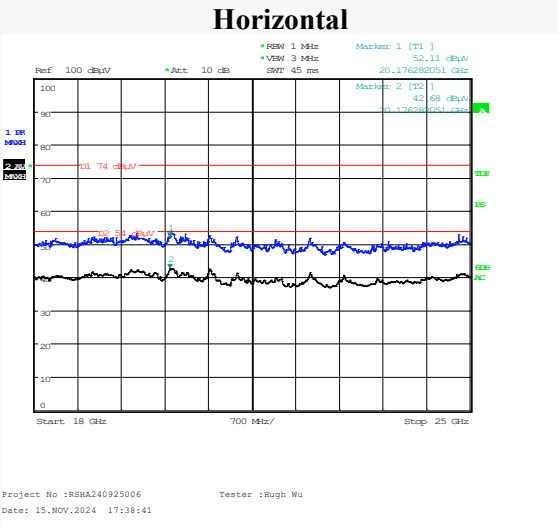
Project No.: RSHA240925006
Test Mode: Transmitting
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

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)
2486.776000	---	36.92	54.00	17.08	H	-4.2
2486.776000	47.69	---	74.00	26.31	H	-4.2
2487.424000	---	36.67	54.00	17.33	H	-4.2
2487.424000	51.34	---	74.00	22.66	H	-4.2

18GHz-25GHz: Transmitting in maximum output power middle channel

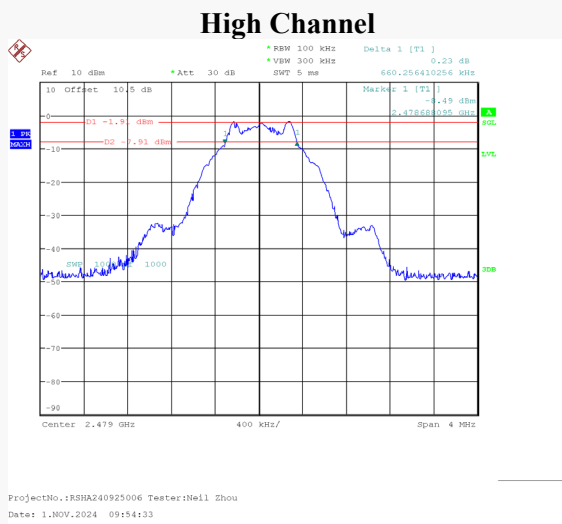
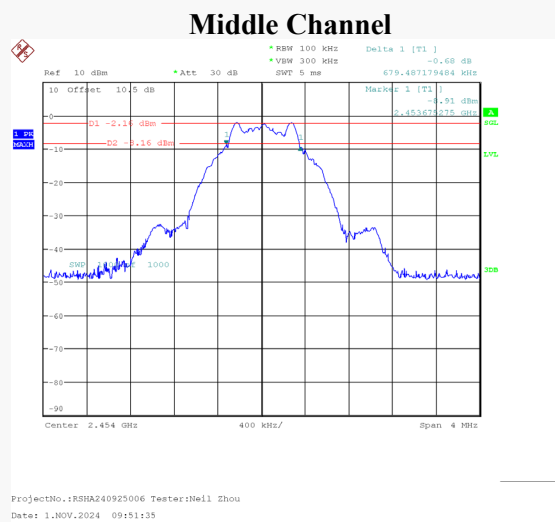
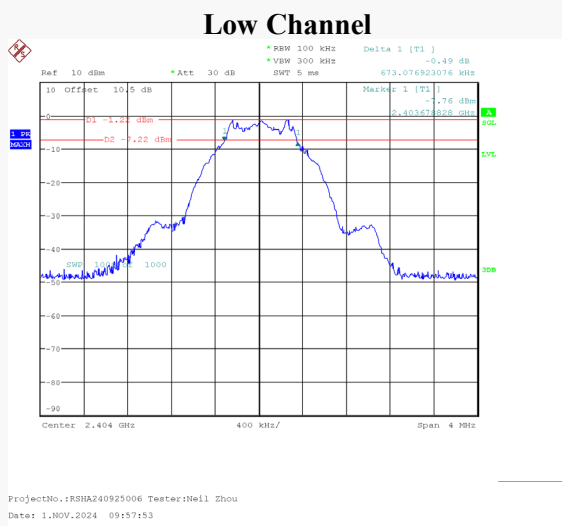


Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20243.59	---	42.85	54	11.15	V	12.5
20243.59	52.21	---	74	21.79	V	12.5
20176.28	---	42.68	54	11.32	H	12.44
20176.28	52.11	---	74	21.89	H	12.44

6 dB EMISSION BANDWIDTH

EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
Low	2404	0.67	≥ 0.5
Middle	2454	0.67	≥ 0.5
High	2479	0.66	≥ 0.5



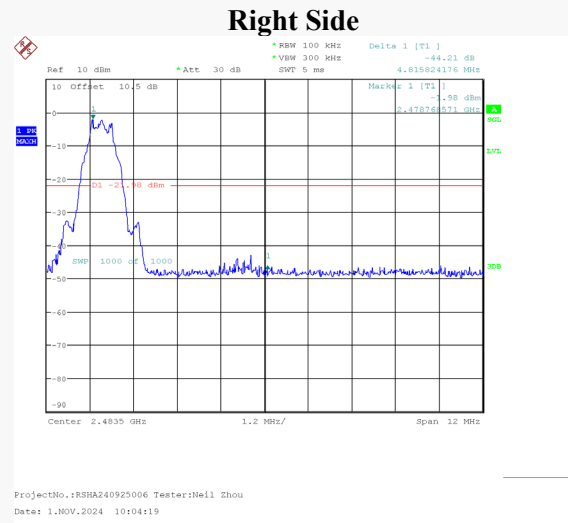
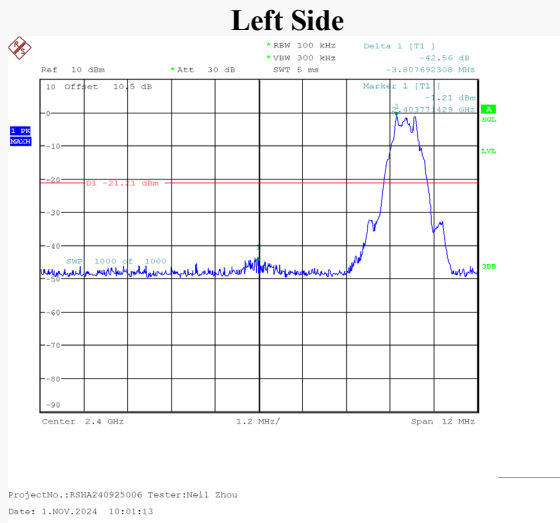
Note: Offset (10.5dB) = Attenuator (10dB) + cable loss (0.5dB)

MAXIMUM CONDUCTED OUTPUT POWER*EUT operation mode: Transmitting*

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
Low	2404	-0.74	30	Pass
Middle	2454	-0.45	30	Pass
High	2479	-1.44	30	Pass

100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

EUT operation mode: Transmitting

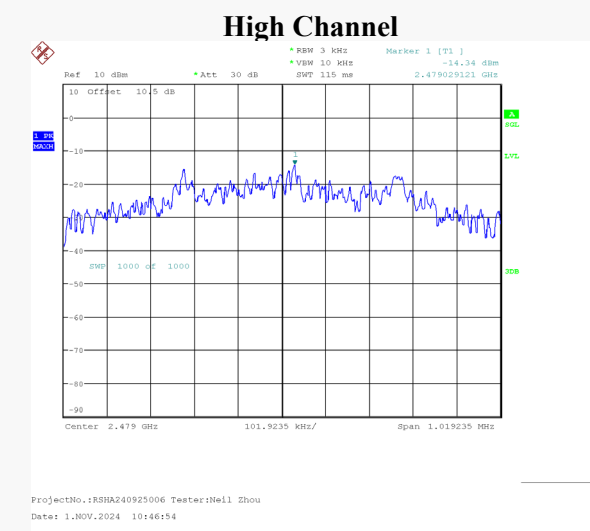
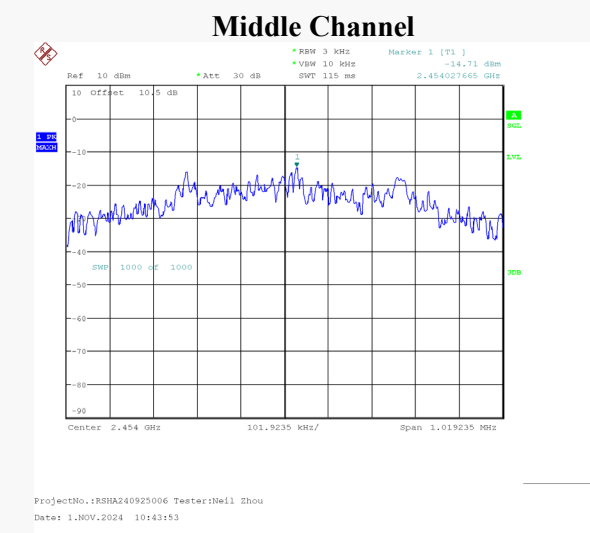
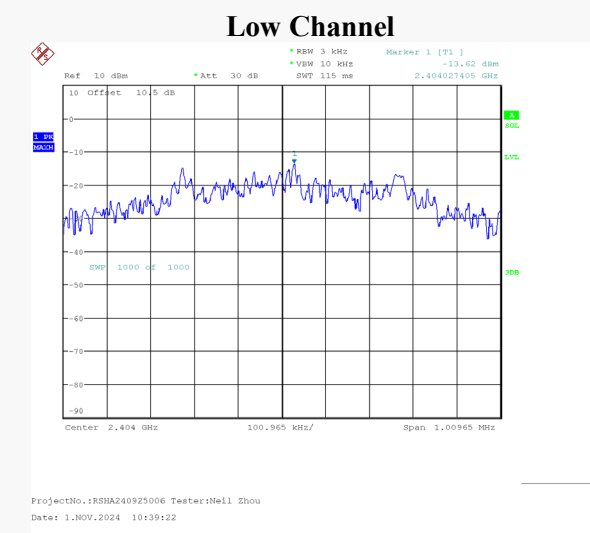


Note: Offset (10.5dB) = Attenuator (10dB) + cable loss (0.5dB)

Power Spectral Density

EUT operation mode: Transmitting

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2404	-13.62	≤ 8
Middle	2454	-14.59	≤ 8
High	2479	-14.34	≤ 8



Note: Offset (10.5dB) = Attenuator (10dB) + cable loss (0.5dB)

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.

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 *******