

FCC PART 15.247

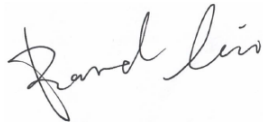
TEST REPORT

For

Feitian Technologies Co., Ltd.

Floor 17th, Tower B, Huizhi Mansion, No.9 Xueqing Road, Haidian District, Beijing, China

FCC ID: ZD3FTF600

Report Type: Original Report	Product Name: Android Payment PAD
Report Number: RKSA240906001-00E	
Report Date: 2025-01-17	
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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	RKSA240906001-00E	R1V1	2025-01-17	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Feitian Technologies Co., Ltd.
Tested Model	F600
Product Name	Android Payment PAD
Power Supply	DC 3.8V from battery or DC 5V charging by adapter
Maximum peak Output Power:	GFSK: 9.90 dBm $\pi/4$ -DQPSK: 9.13 dBm 8DPSK: 9.55 dBm
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	FPC Antenna
★Maximum Antenna Gain:	1.72 dBi

Adapter Information:

Model: TEKA-UCA20US

Input: 100-240V, 50/60Hz, 0.35A Max

Output: 5.0V, 2.0A

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RKSA240906001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-09-06.)

Objective

This test report is prepared for *Feitian Technologies 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 Compliance with FCC Part 15, Subpart C, 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 and 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

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

RF Test Tool: QRCT 4

★Power level: 9

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

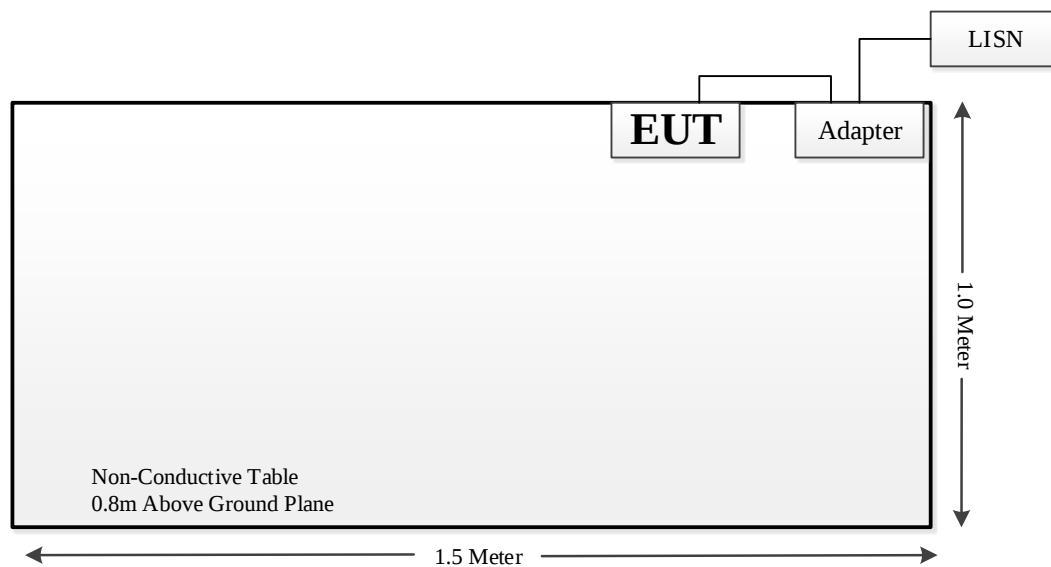
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

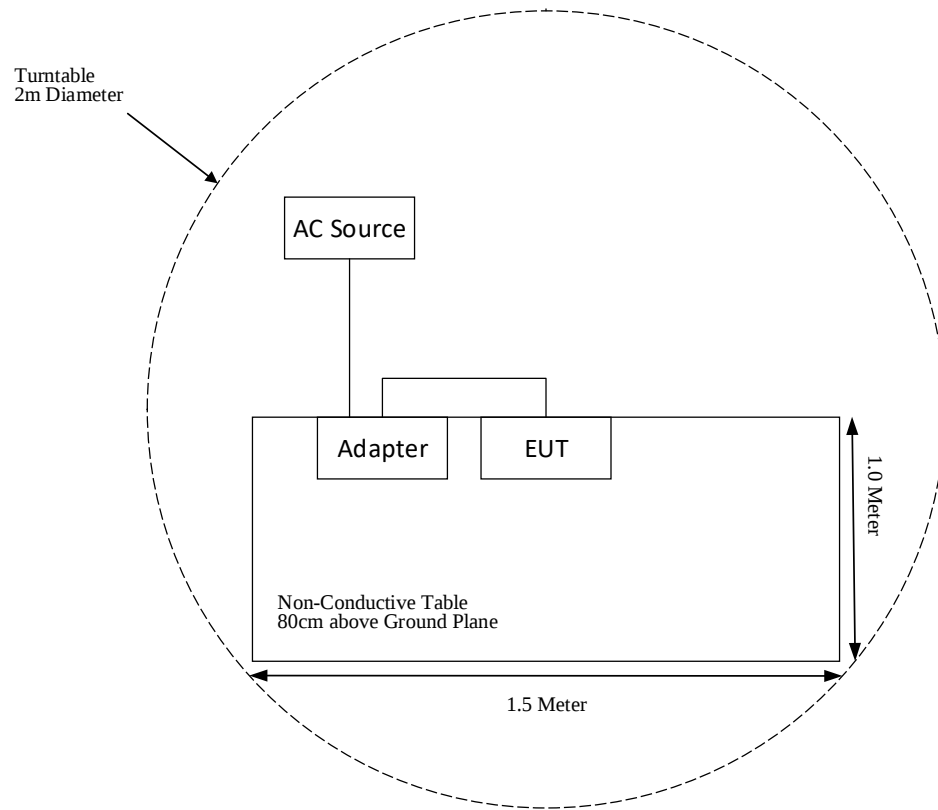
Cable Description	Length (m)	From Port	To
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Adapter	AC Source/LISN

Block Diagram of Test Setup

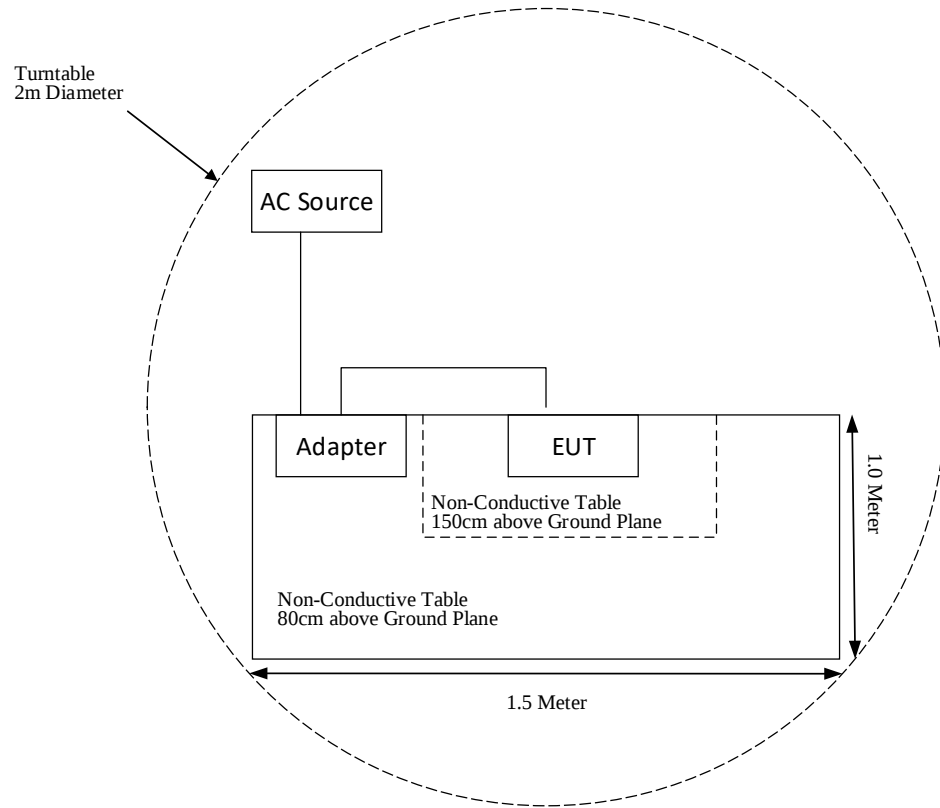
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



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	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
ETS-LINDGREN	Loop Antenna	6512	108100	2024-11-03	2025-11-02
Sonoma Instrument	Pre-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	2024-04-25	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
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
ETS-LINDGREN	Horn Antenna	3116	2516	2024-01-06	2025-01-05
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
SELECTOR	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRC50719	G027	2024-04-25	2025-04-24
N/A	Attenuator	10 dB	N/A	2024-04-23	2025-04-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	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	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSU26	200103	2024-04-24	2025-04-23
Narda	Attenuator	10 dB	N/A	2024-04-23	2025-04-22
Anritsu	Power Sensor	MA24418A	12621	2024-04-23	2025-04-22
XHFDZ	RG178 Coaxial Cable	SMA-178	XHF-1102	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	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	2024-04-24	2025-04-23
MICRO-COAX	Coaxial Cable	Cable-15	015	2024-04-23	2025-04-22

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).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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 use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has a FPC Antenna for Bluetooth, and the antenna gain is 1.72 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

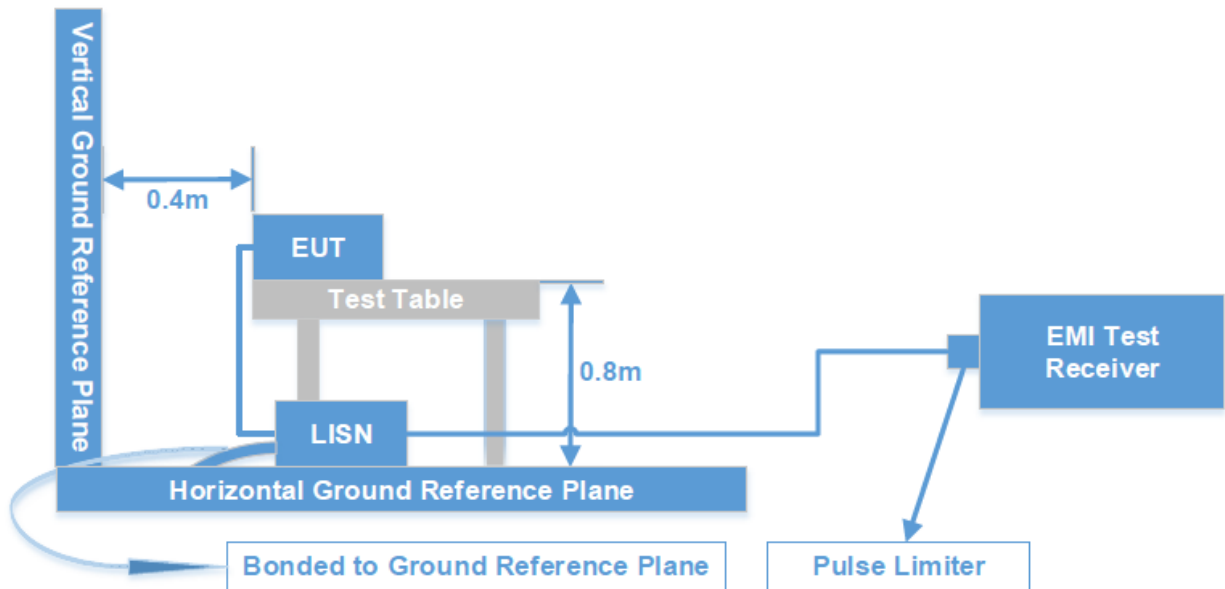
Result: Compliant.

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.

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 or adapter 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:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

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:

$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

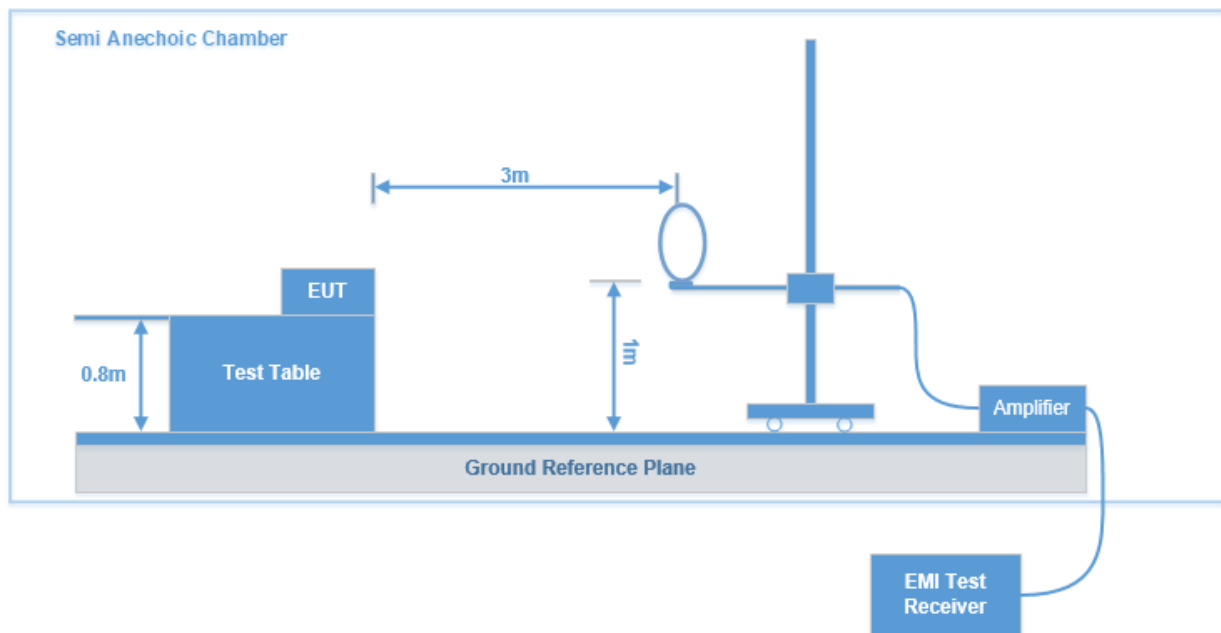
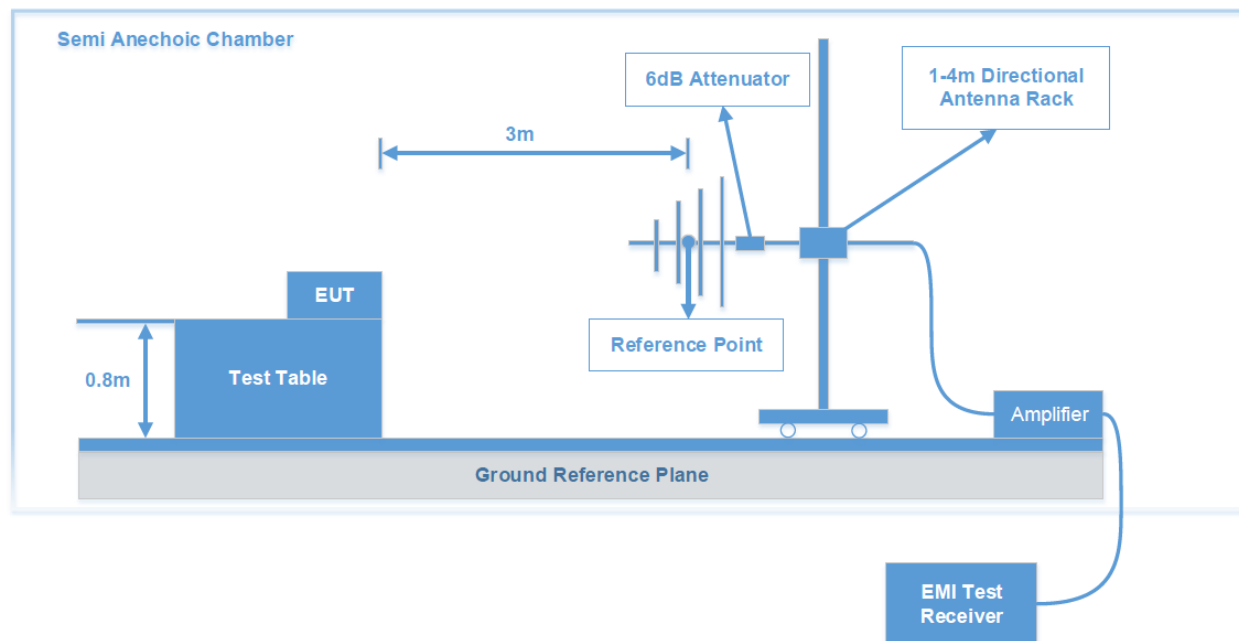
Test Results Summary

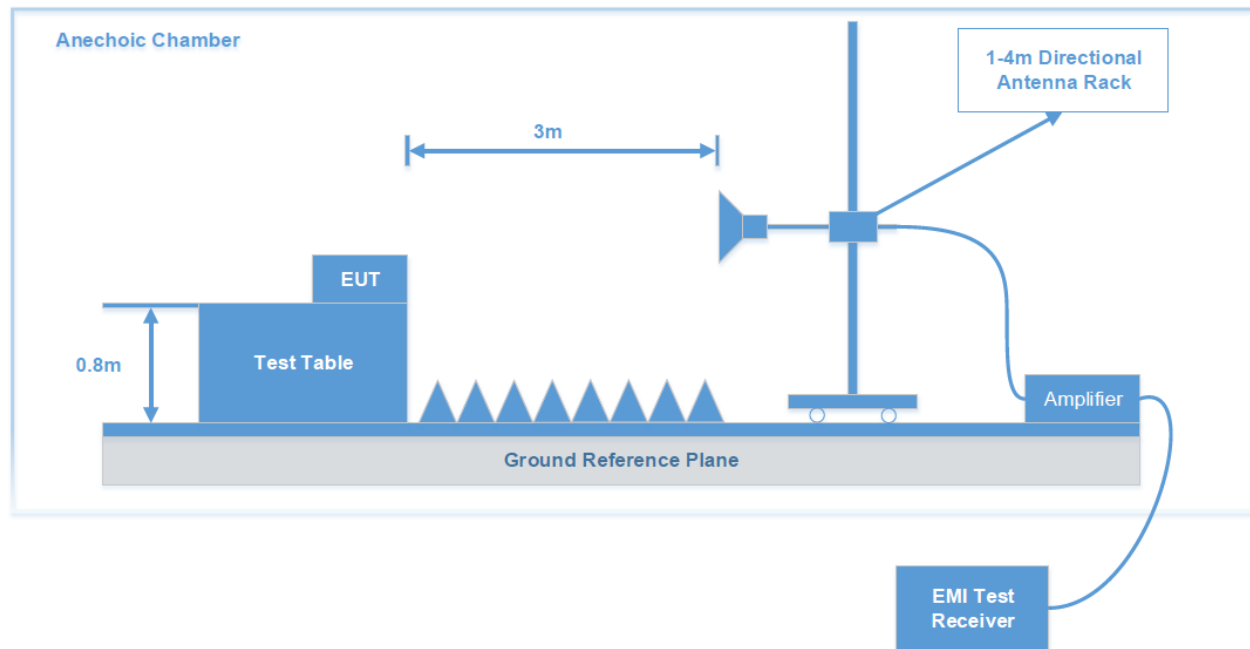
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS**Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

Test System Setup**9kHz - 30MHz:****30 MHz - 1 GHz:**

Above 1GHz:

The radiated emission tests were performed in the 3 meters, 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 25 GHz.

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

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

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

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 (dB μ V/m) = Meter Reading (dB μ V) + 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 (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Note: The QuasiPeak (dB μ V/m), MaxPeak (dB μ V/m), Average (dB μ V/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) (1)-CHANNEL SEPARATION TEST

Applicable Standard

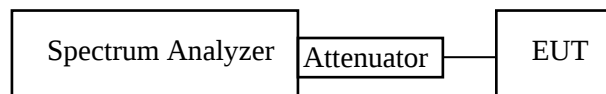
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that 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.

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: Wide enough to capture the peaks of two adjacent channels.
- b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c. Video (or average) bandwidth (VBW) $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.



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

Test Datd: See Appendix

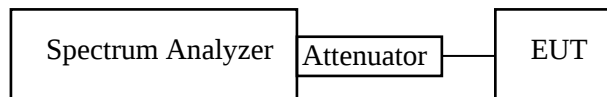
FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

Applicable Standard

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.

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 without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 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 (10.5dB) = Attenuator(10dB) + Cable loss(0.5dB)

Test Datd: See Appendix

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

Applicable Standard

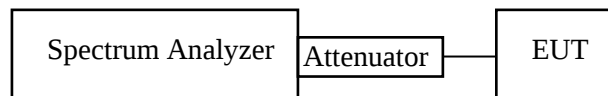
Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c. VBW $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.



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

Test Datd: See Appendix

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

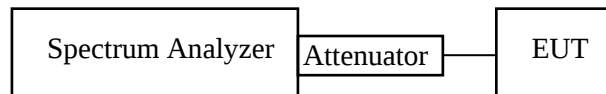
Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a Span: Zero span, centered on a hopping channel.
- b RBW shall be $\leq$ channel spacing and where possible RBW should be set $\geq 1 / T$, where T is the expected dwell time per channel.
- c Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d Detector function: Peak.
- e Trace: Max hold.



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

Test Datd: See Appendix

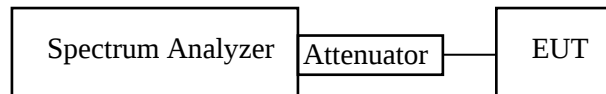
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

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 (10.5dB) = Attenuator(10dB) + Cable loss(0.5dB)

Test Datd: See Appendix

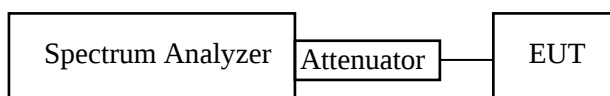
FCC §15.247(d) - BAND EDGES TESTING

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

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



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

Test Datd: See Appendix

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 E - TEST SETUP PHOTOGRAPHS.

APPENDIX - TEST DATA**Environmental Conditions & Test Information**

Test Item:	AC LINE CONDUCTED EMISSIONS	RADIATED EMISSIONS		
		9 kHz – 30 MHz	30 MHz - 1 GHz	1 GHz - 18 GHz
Test Date:	2024-11-29	2024-12-17	2024-12-02	2024-11-30
Temperature:	17.3 °C	19 °C	16.8 °C	20.3 °C
Relative Humidity:	35 %	42 %	48 %	51 %
ATM Pressure:	102.4 kPa	101.2 kPa	101.8 kPa	102.2kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Myles Miao	Jerry Yan	Jerry Yan	Destine Hu

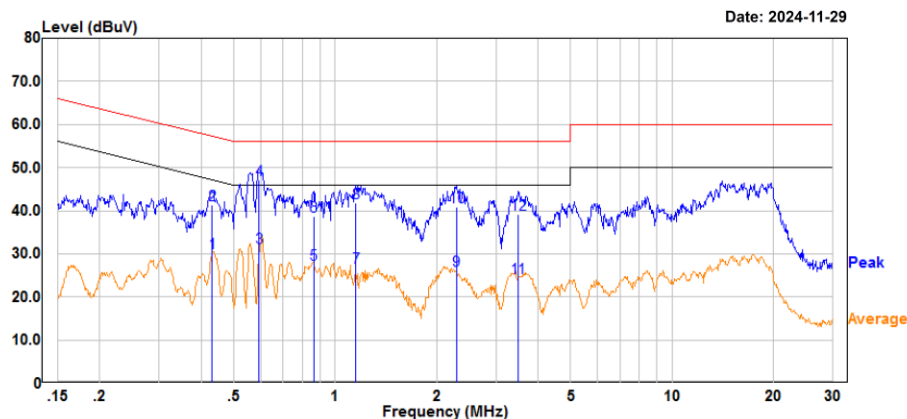
Test Item:	18 GHz - 25 GHz	CHANNEL SEPARATION TEST	20 DB BANDWIDTH TEST
Test Date:	2024-12-06	2024-12-12	2024-12-12
Temperature:	22.5 °C	22.5 °C	22.5 °C
Relative Humidity:	45 %	42 %	42 %
ATM Pressure:	100.9 kPa	101.3kPa	101.3kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Hugh Wu	Neil Zhou	Neil Zhou

Test Item:	QUANTITY OF HOPPING CHANNEL TEST	TIME OF OCCUPANCY (DWELL TIME)	TRANSMITTER OUTPUT POWER MEASUREMENT	OUT OF BAND EMISSIONS
Test Date:	2024-12-12	2024-12-12	2024-12-12	2024-12-12
Temperature:	22.5 °C	22.5 °C	22.5 °C	22.5 °C
Relative Humidity:	42 %	42 %	42 %	42 %
ATM Pressure:	101.3kPa	101.3kPa	101.3kPa	101.3kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou	Neil Zhou	Neil Zhou

AC LINE CONDUCTED EMISSIONS

EUT operation mode: Transmitting in GFSK low channel (maximum output power mode)

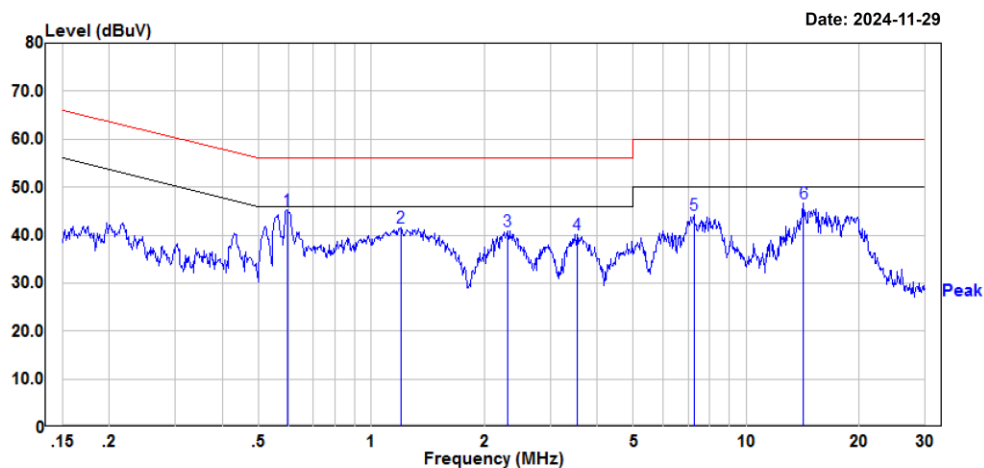
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA240906001
Model : F600
Phase : L
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216,ESR
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 17.3℃
Humidity : 35%
Atmospheric pressure: 102.4kPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.432	9.89	20.23	30.12	47.22	-17.10	Average
2	0.432	21.09	20.23	41.32	57.22	-15.90	QP
3	0.594	11.40	20.10	31.50	46.00	-14.50	Average
4	0.594	27.00	20.10	47.10	56.00	-8.90	QP
5	0.863	7.60	19.86	27.46	46.00	-18.54	Average
6	0.863	18.90	19.86	38.76	56.00	-17.24	QP
7	1.152	7.10	19.81	26.91	46.00	-19.09	Average
8	1.152	22.10	19.81	41.91	56.00	-14.09	QP
9	2.292	5.90	20.18	26.08	46.00	-19.92	Average
10	2.292	20.70	20.18	40.88	56.00	-15.12	QP
11	3.483	4.30	20.24	24.54	46.00	-21.46	Average
12	3.483	19.00	20.24	39.24	56.00	-16.76	QP

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA240906001
Model : F600
Phase : N
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216,ESR
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 17.3℃
Humidity : 35%
Atmospheric pressure: 102.4kPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.597	25.20	20.10	45.30	56.00	-10.70	Peak
2	1.199	21.64	19.83	41.47	56.00	-14.53	Peak
3	2.303	20.60	20.19	40.79	56.00	-15.21	Peak
4	3.536	19.80	20.24	40.04	56.00	-15.96	Peak
5	7.248	24.01	20.16	44.17	60.00	-15.83	Peak
6	14.204	26.86	19.74	46.60	60.00	-13.40	Peak

RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS

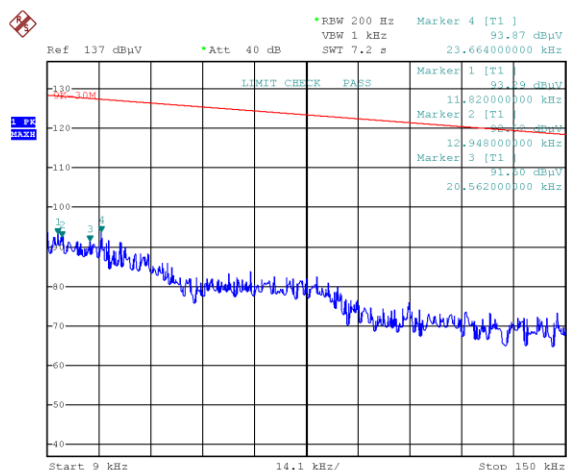
EUT operation mode: Transmitting

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

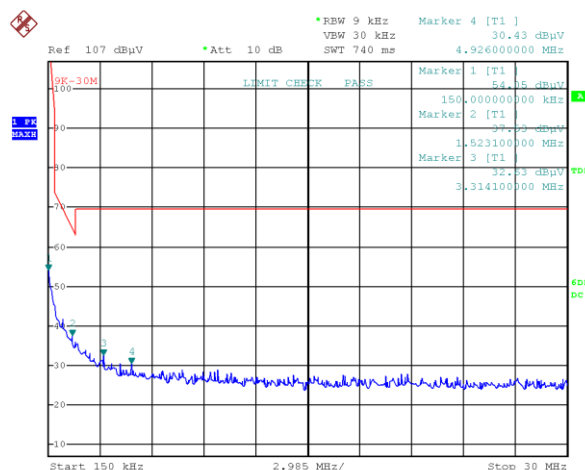
9 kHz-30 MHz: Transmitting in GFSK low channel (maximum output power mode)

Parallel(worst case)

9 kHz -150 kHz



150 kHz -30 MHz



Project No.RKSA240906001
Date: 17.DEC.2024 19:34:06

Tester:Jerry Yan

Project No.RKSA240906001
Date: 17.DEC.2024 19:38:20

Tester:Jerry Yan

9 kHz – 150 kHz

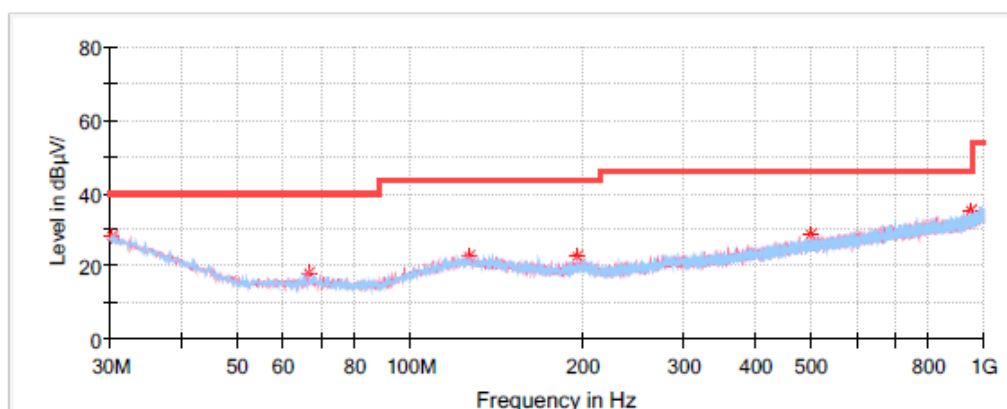
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
11.82	93.29	PK	55.21	126.15	32.86
12.95	92.52	PK	54.49	125.36	32.84
20.56	91.50	PK	49.84	121.34	29.84
23.66	93.87	PK	48.98	120.12	26.25

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)
0.15	54.05	PK	50.90	104.08	50.03
1.52	37.53	PK	8.16	63.97	26.44
3.31	32.63	PK	12.93	69.54	36.91
4.93	30.43	PK	9.05	69.54	39.11

30 MHz - 1 GHz (Transmitting in maximum output power GFSK mode):**Common Information**

Project No: RKSA240906001
EUT Model: F600
Test Mode: BT
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 120 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 16.8°C
Humidity: 48%
Barometric Pressure: 101.8 kPa
Test Engineer: Jerry Yan
Test Date: 2024/12/02

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	28.39	40.00	11.61	H	-4.8
66.375000	18.21	40.00	21.79	V	-16.7
126.878750	22.85	43.50	20.65	V	-11.0
196.233750	22.68	43.50	20.82	V	-12.2
498.146250	28.57	46.00	17.43	V	-5.4
950.530000	35.06	46.00	10.94	V	1.4

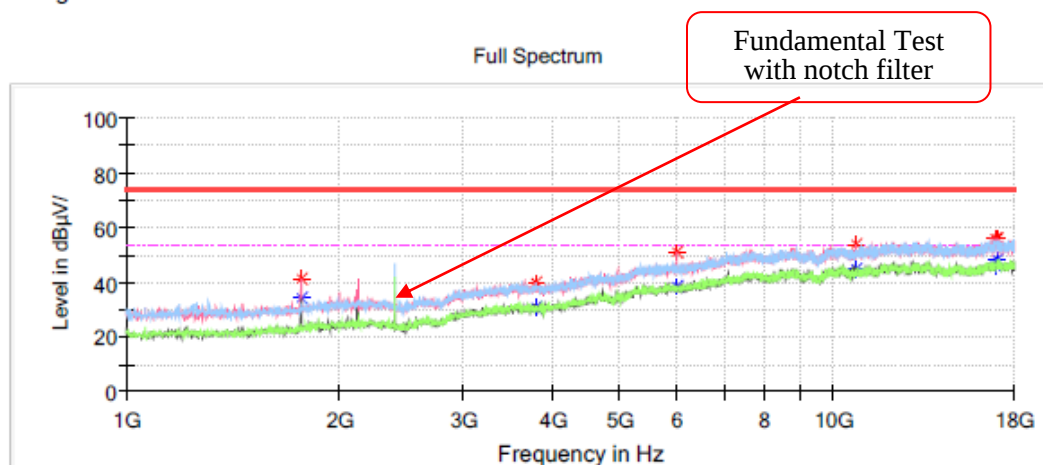
1 GHz - 18 GHz:

GFSK:

Low Channel: 2402 MHz

Common Information

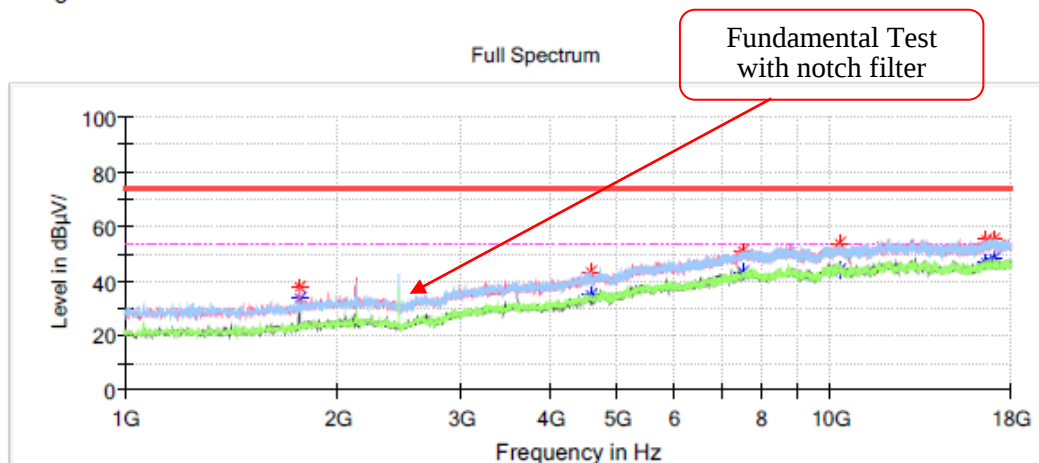
Project No.:	RKSA240906001
Test Mode:	Transmitting in BT-DH5 mode low channel
Standard:	FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

**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)
1765.000000	---	34.26	54.00	19.74	V	-13.1
1765.000000	40.98	---	74.00	33.02	V	-13.1
3798.200000	---	30.77	54.00	23.23	V	-6.1
3798.200000	39.88	---	74.00	34.12	V	-6.1
5987.800000	---	38.65	54.00	15.35	V	0.0
5987.800000	50.90	---	74.00	23.10	V	0.0
10727.400000	---	44.58	54.00	9.42	V	7.2
10727.400000	53.96	---	74.00	20.04	V	7.2
16963.000000	56.09	---	74.00	17.91	H	12.2
16963.000000	---	46.29	54.00	7.71	H	12.2
16990.200000	55.72	---	74.00	18.28	H	12.3
16990.200000	---	47.93	54.00	6.07	H	12.3

Middle Channel: 2441 MHz**Common Information**

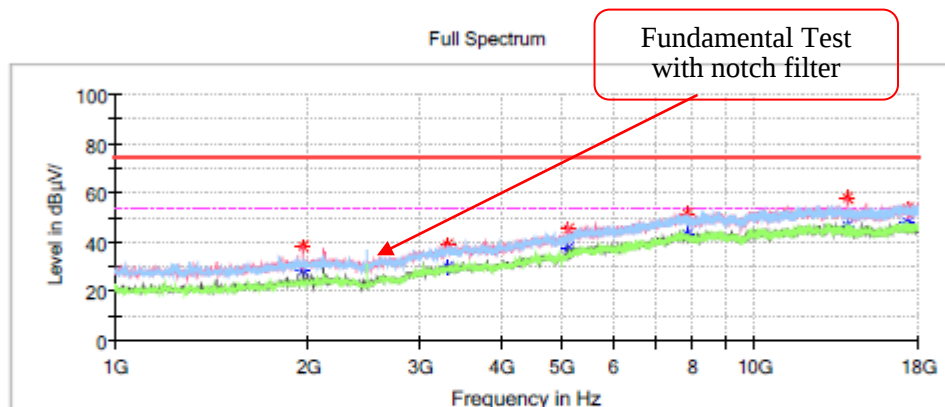
Project No.: RKSA240906001
Test Mode: Transmitting in BT-DH5 mode middle channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
1765.000000	---	33.30	54.00	20.70	V	-13.1
1765.000000	37.82	---	74.00	36.18	V	-13.1
4559.800000	---	34.91	54.00	19.09	H	-4.0
4559.800000	43.39	---	74.00	30.61	H	-4.0
7490.600000	---	43.54	54.00	10.46	H	3.9
7490.600000	51.31	---	74.00	22.69	H	3.9
10302.400000	---	43.95	54.00	10.05	V	7.1
10302.400000	54.10	---	74.00	19.90	V	7.1
16602.600000	55.57	---	74.00	18.43	H	11.1
16602.600000	---	46.73	54.00	7.27	H	11.1
17036.100000	---	47.17	54.00	6.83	V	12.2
17036.100000	55.50	---	74.00	18.50	V	12.2

High Channel: 2480 MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: Transmitting
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

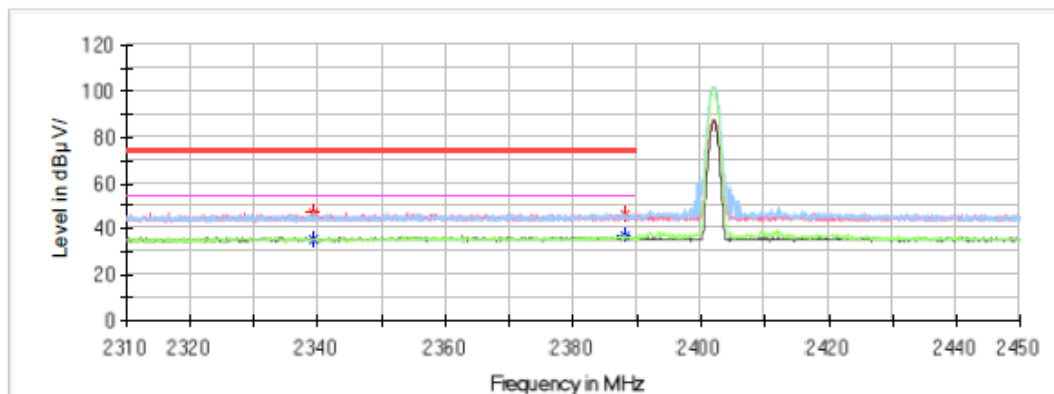
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1962.200000	38.62	—	74.00	35.38	V	-12.0
1962.200000	—	28.36	54.00	25.64	V	-12.0
3317.100000	—	29.99	54.00	24.01	V	-7.1
3317.100000	38.84	—	74.00	35.16	V	-7.1
5125.900000	45.33	—	74.00	28.67	V	-1.9
5125.900000	—	37.45	54.00	16.55	V	-1.9
7818.700000	51.66	—	74.00	22.34	V	3.9
7818.700000	—	43.56	54.00	10.44	V	3.9
13937.000000	—	46.60	54.00	7.40	H	9.8
13937.000000	57.71	—	74.00	16.29	H	9.8
17338.700000	—	47.89	54.00	6.11	H	11.8
17338.700000	53.72	—	74.00	20.28	H	11.8

Band Edge:**Left Side****Common Information**

Project No.: RKSA240906001
Test Mode: BT
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

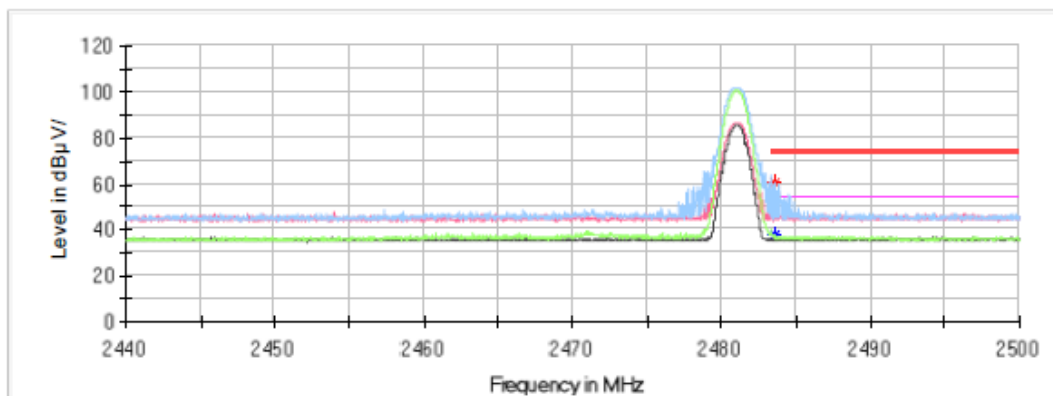
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2339.344000	47.00	---	74.00	27.00	V	-0.7
2339.344000	---	35.15	54.00	18.85	V	-0.7
2388.064000	46.50	---	74.00	27.50	H	-0.6
2388.064000	---	36.93	54.00	17.07	H	-0.6

Right Side**Common Information**

Project No.: RKSA240906001
Test Mode: BT
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

**Critical_Freqs**

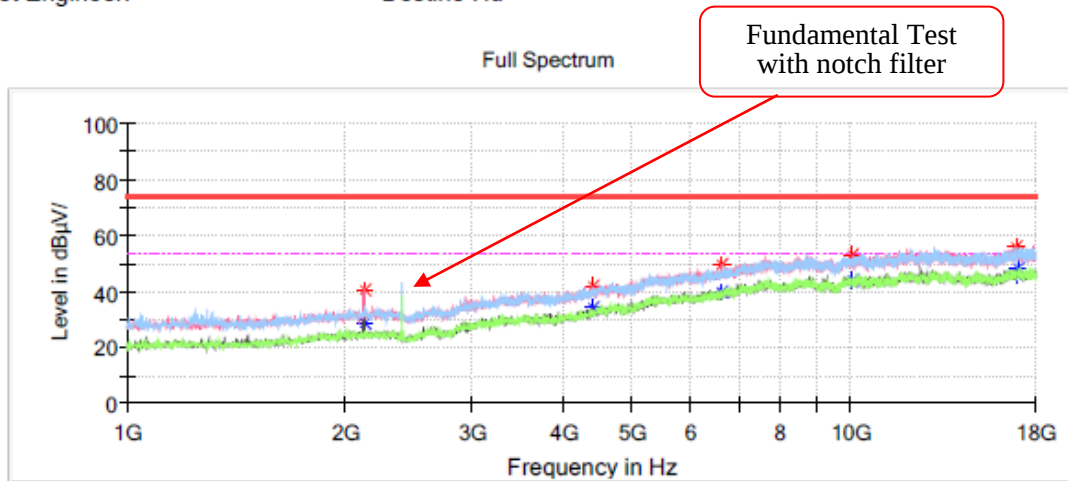
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.536000	60.10	---	74.00	13.90	H	-0.3
2483.536000	---	37.52	54.00	16.48	H	-0.3
2483.560000	54.66	---	74.00	19.34	H	-0.3
2483.560000	---	37.72	54.00	16.28	H	-0.3

$\pi/4$ -DQPSK:

Low Channel: 2402 MHz

Common Information

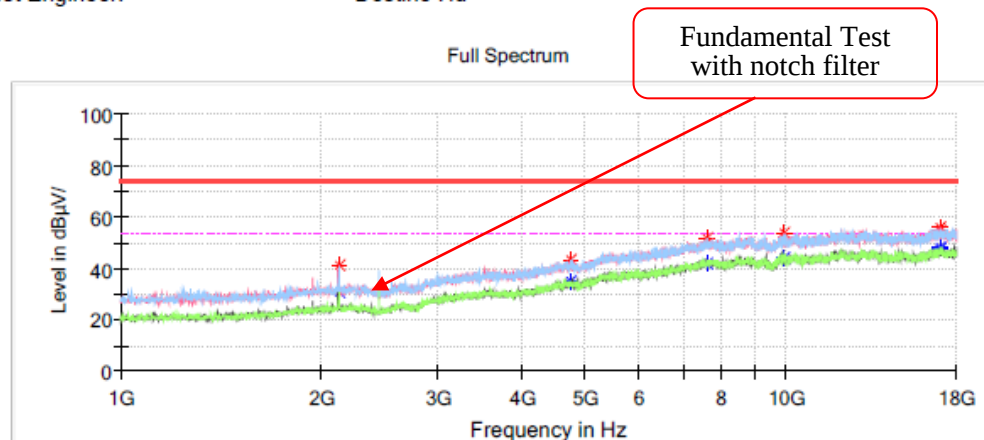
Project No.:	RKSA240906001
Test Mode:	Transmitting in BT-2DH5 mode low channel
Standard:	FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

**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)
2125.400000	---	28.48	54.00	25.52	V	-11.3
2125.400000	40.31	---	74.00	33.69	V	-11.3
4401.700000	---	34.37	54.00	19.63	V	-4.6
4401.700000	42.12	---	74.00	31.88	V	-4.6
6649.100000	---	40.14	54.00	13.86	H	1.2
6649.100000	49.37	---	74.00	24.63	H	1.2
10021.900000	---	43.82	54.00	10.18	H	7.2
10021.900000	52.82	---	74.00	21.18	H	7.2
16946.000000	55.89	---	74.00	18.11	V	12.1
16946.000000	---	46.30	54.00	7.70	V	12.1
17027.600000	---	47.19	54.00	6.81	H	12.2
17027.600000	54.08	---	74.00	19.92	H	12.2

Middle Channel: 2441 MHz**Common Information**

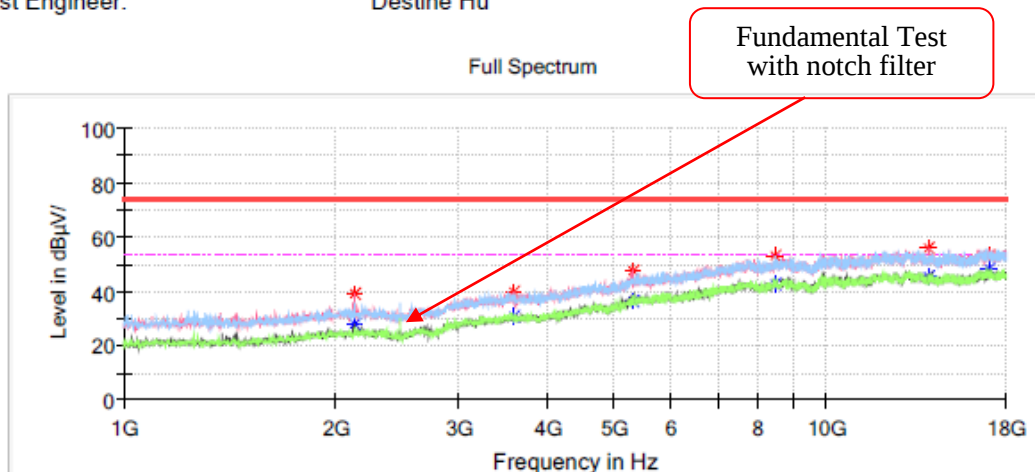
Project No.: RKSA240906001
 Test Mode: Transmitting in BT-2DH5 mode middle channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

**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)
2130.500000	---	30.47	54.00	23.53	V	-11.3
2130.500000	41.52	---	74.00	32.48	V	-11.3
4741.700000	---	34.98	54.00	19.02	V	-3.4
4741.700000	43.52	---	74.00	30.48	V	-3.4
7582.400000	---	42.12	54.00	11.88	H	3.9
7582.400000	52.02	---	74.00	21.98	H	3.9
9902.900000	---	43.93	54.00	10.07	V	6.8
9902.900000	53.54	---	74.00	20.46	V	6.8
16973.200000	---	47.48	54.00	6.52	V	12.2
16973.200000	54.22	---	74.00	19.78	V	12.2
17019.100000	55.63	---	74.00	18.37	H	12.3
17019.100000	---	47.39	54.00	6.61	H	12.3

High Channel: 2480 MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: Transmitting in BT-2DH5 mode high channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

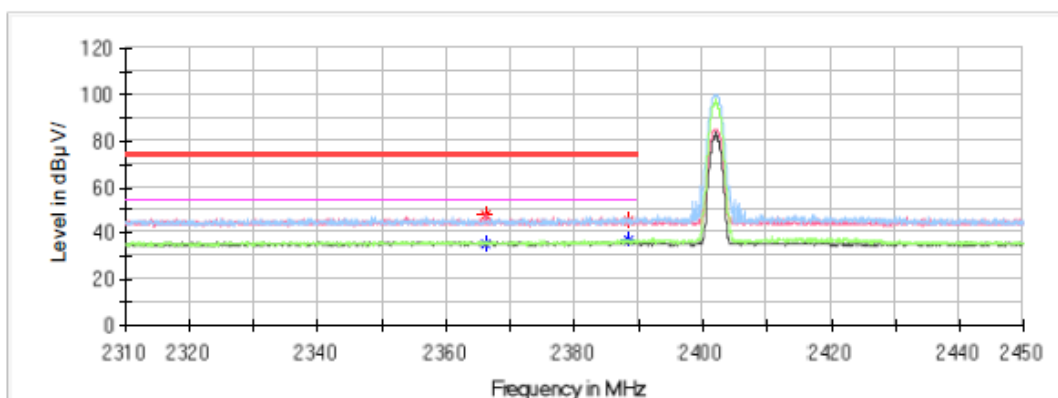
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	---	28.18	54.00	25.82	V	-11.3
2128.800000	39.44	---	74.00	34.56	V	-11.3
3584.000000	---	30.67	54.00	23.33	H	-6.3
3584.000000	39.86	---	74.00	34.14	H	-6.3
5289.100000	---	36.31	54.00	17.69	H	-1.2
5289.100000	47.69	---	74.00	26.31	H	-1.2
8430.700000	---	42.79	54.00	11.21	H	5.2
8430.700000	52.97	---	74.00	21.03	H	5.2
13960.800000	56.14	---	74.00	17.86	V	9.8
13960.800000	---	45.31	54.00	8.69	V	9.8
17068.400000	53.25	---	74.00	20.75	H	12.2
17068.400000	---	47.24	54.00	6.76	H	12.2

Band Edge:**Left Side****Common Information**

Project No.: RKSA240906001
Test Mode: BT
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

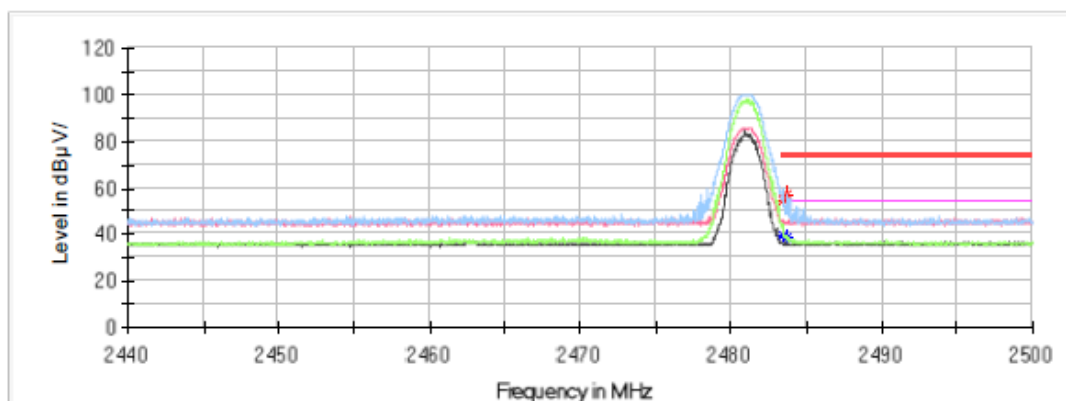
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2366.000000	47.98	---	74.00	26.02	V	-0.7
2366.000000	---	35.26	54.00	18.74	V	-0.7
2388.568000	45.27	---	74.00	28.73	H	-0.6
2388.568000	---	37.20	54.00	16.80	H	-0.6

Right Side**Common Information**

Project No.: RKSA240906001
Test Mode: BT
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.512000	---	39.81	54.00	14.19	H	-0.3
2483.512000	54.31	---	74.00	19.69	H	-0.3
2483.704000	---	38.37	54.00	15.63	H	-0.3
2483.704000	57.45	---	74.00	16.55	H	-0.3

8DPSK:**Low Channel: 2402 MHz****Common Information**

Project No.:

RKSA240906001

Test Mode:

Transmitting in BT-3DH5 mode low channel

Standard:

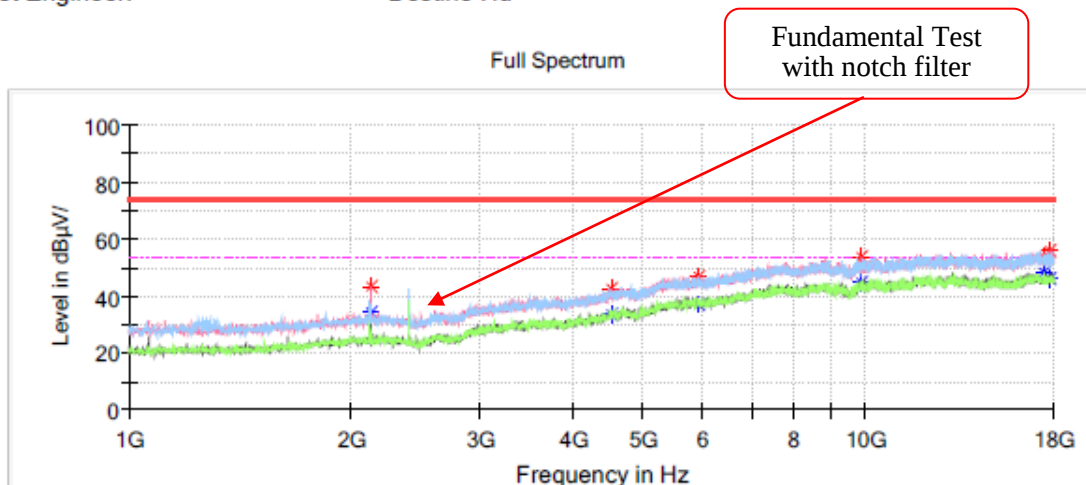
FCC Part 15.205&FCC Part 15.209&FCC Part 15.247

Receiver Setting:

RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Test Engineer:

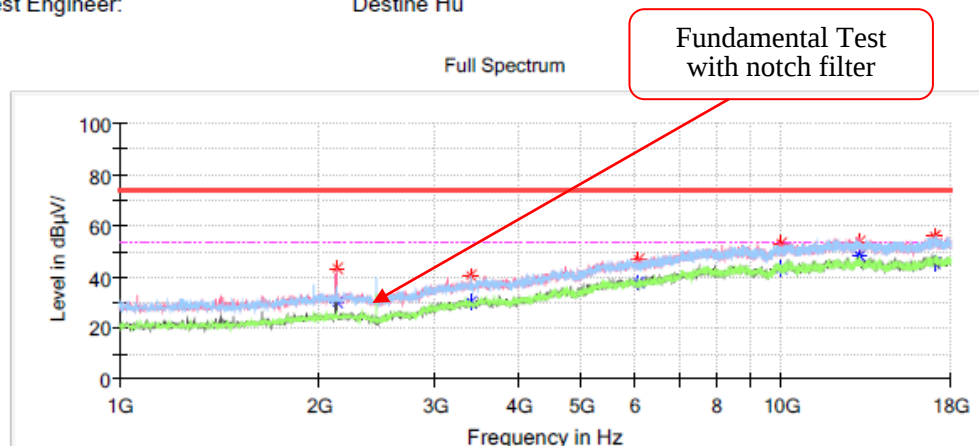
Destine Hu

**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)
2130.500000	43.42	---	74.00	30.58	V	-11.3
2130.500000	---	34.56	54.00	19.44	V	-11.3
4517.300000	42.56	---	74.00	31.44	V	-4.2
4517.300000	---	33.83	54.00	20.17	V	-4.2
5918.100000	---	37.41	54.00	16.59	H	0.0
5918.100000	46.87	---	74.00	27.13	H	0.0
9862.100000	---	44.58	54.00	9.42	V	6.7
9862.100000	54.00	---	74.00	20.00	V	6.7
17433.900000	53.79	---	74.00	20.21	H	11.6
17433.900000	---	47.38	54.00	6.62	H	11.6
17809.600000	56.16	---	74.00	17.84	V	11.8
17809.600000	---	46.45	54.00	7.55	V	11.8

Middle Channel: 2441 MHz**Common Information**

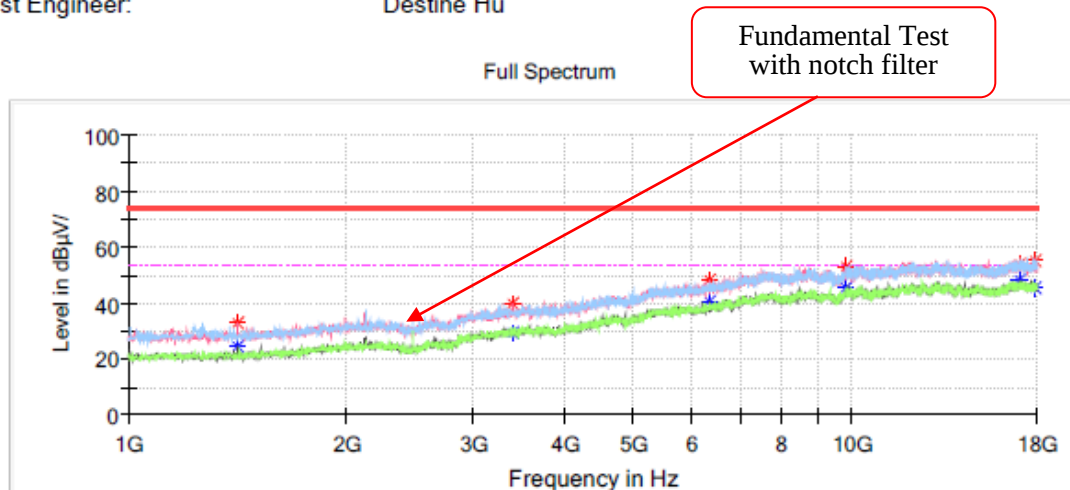
Project No.: RKSA240906001
Test Mode: Transmitting in BT-3DH5 mode middle channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
2128.800000	---	30.02	54.00	23.98	V	-11.3
2128.800000	43.57	---	74.00	30.43	V	-11.3
3390.200000	---	29.76	54.00	24.24	H	-6.8
3390.200000	40.22	---	74.00	33.78	H	-6.8
6076.200000	---	37.67	54.00	16.33	H	0.1
6076.200000	47.19	---	74.00	26.81	H	0.1
10011.700000	---	43.52	54.00	10.48	V	7.2
10011.700000	52.91	---	74.00	21.09	V	7.2
13112.500000	---	47.13	54.00	6.87	H	9.7
13112.500000	53.80	---	74.00	20.20	H	9.7
17059.900000	---	45.73	54.00	8.27	V	12.2
17059.900000	56.15	---	74.00	17.85	V	12.2

High Channel: 2480 MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: Transmitting in BT-3DH5 mode high channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

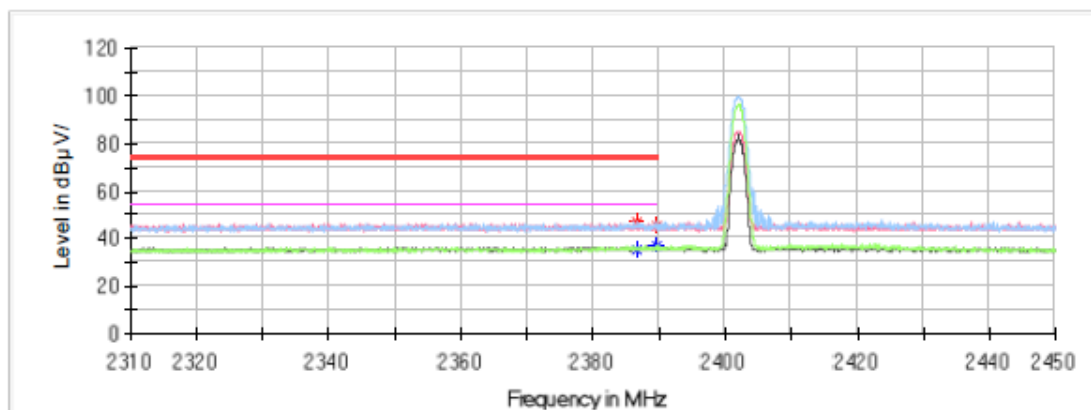
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1414.800000	---	24.51	54.00	29.49	V	-14.9
1414.800000	32.83	---	74.00	41.17	V	-14.9
3398.700000	---	29.29	54.00	24.71	V	-6.8
3398.700000	39.69	---	74.00	34.31	V	-6.8
6346.500000	---	40.69	54.00	13.31	V	0.4
6346.500000	48.26	---	74.00	25.74	V	0.4
9807.700000	---	45.63	54.00	8.37	H	6.5
9807.700000	53.36	---	74.00	20.64	H	6.5
16995.300000	---	47.55	54.00	6.45	V	12.3
16995.300000	53.69	---	74.00	20.31	V	12.3
17911.600000	---	45.79	54.00	8.21	H	11.9
17911.600000	55.53	---	74.00	18.47	H	11.9

Band Edge:**Left Side****Common Information**

Project No.: RKSA240906001
Test Mode: BT
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

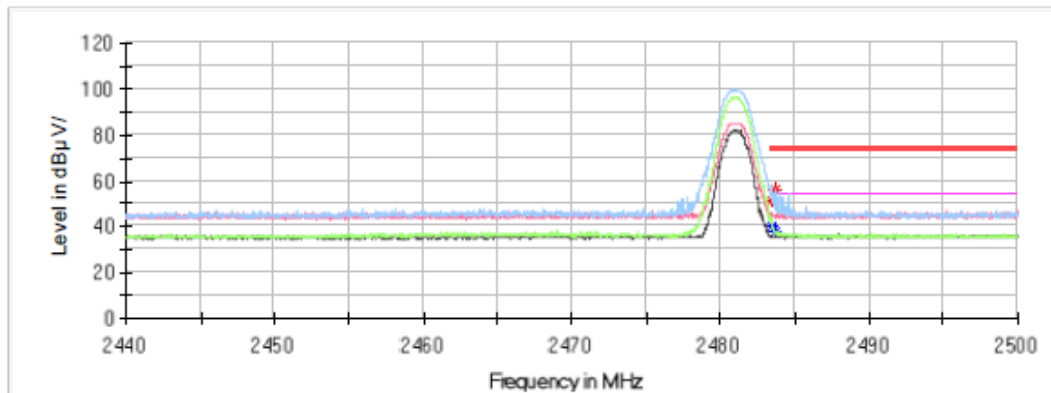
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.552000	46.78	---	74.00	27.22	V	-0.6
2386.552000	---	35.45	54.00	18.55	V	-0.6
2389.520000	45.62	---	74.00	28.38	H	-0.6
2389.520000	---	36.82	54.00	17.18	H	-0.6

Right Side**Common Information**

Project No.: RKSA240906001
Test Mode: BT
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

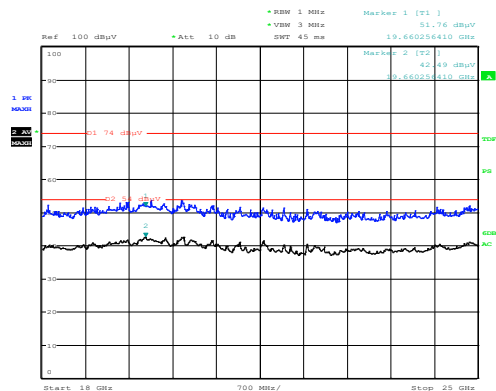
Full Spectrum

**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)
2483.512000	---	40.12	54.00	13.88	H	-0.3
2483.512000	51.31	---	74.00	22.69	H	-0.3
2483.752000	---	37.58	54.00	16.42	H	-0.3
2483.752000	55.82	---	74.00	18.18	H	-0.3

18 GHz - 25 GHz (GFSK low channel):

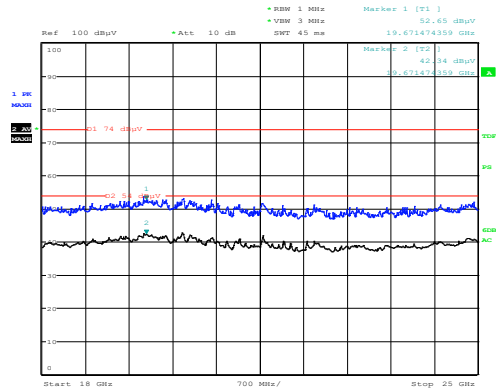
Horizontal



Project No :RKSA240906001
Date: 6,DEC,2024 19:32:54

Tester :Hugh Wu

Vertical



Project No :RKSA240906001
Date: 6,DEC,2024 19:49:45

Tester :Hugh Wu

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
19671.47	52.65	---	74	21.35	V	11.38
19671.47	---	42.34	54	11.66	V	11.38
19660.26	51.76	---	74	22.24	H	11.3
19660.26	---	42.49	54	11.51	H	11.3

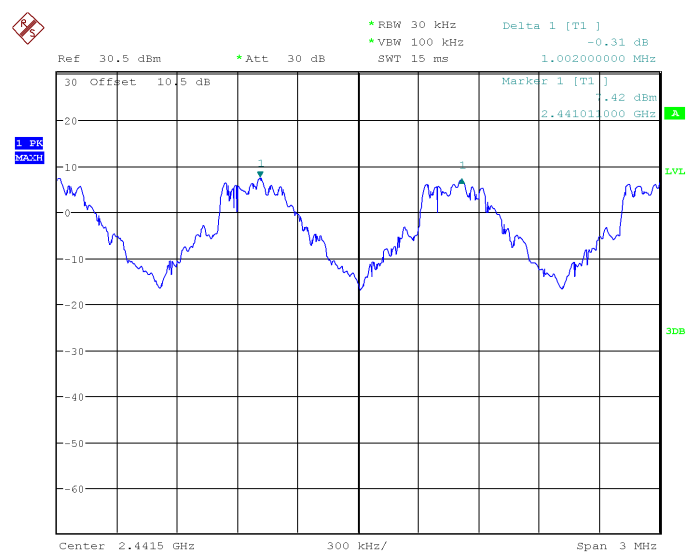
CHANNEL SEPARATION TEST

EUT operation mode: Transmitting

Test Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
GFSK	Hop	1.002	0.848	PASS

Note: only GFSK mode result is report since EDR ($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan and the Limit is maximum 20 dB bandwidth*2/3 Limit = 20 dB bandwidth*2/3

BDR (GFSK): Middle Channel

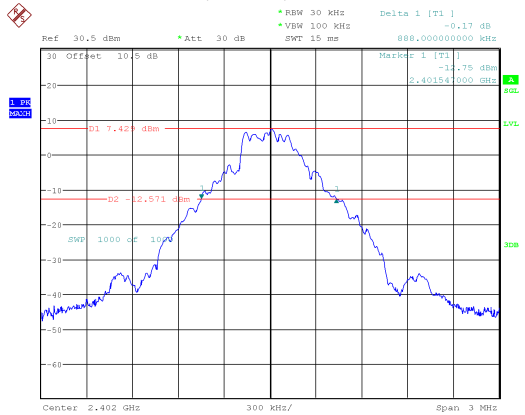


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:49:46

20 dB BANDWIDTH TEST*EUT operation mode: Transmitting*

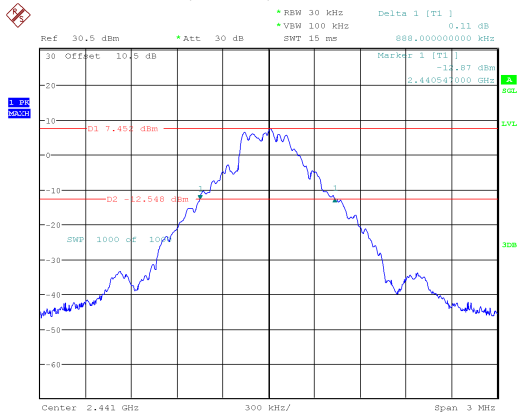
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.888
	Middle	2441	0.888
	High	2480	0.885
EDR ($\pi/4$ -DQPSK)	Low	2402	1.266
	Middle	2441	1.266
	High	2480	1.272
EDR (8DPSK)	Low	2402	1.260
	Middle	2441	1.257
	High	2480	1.254

BDR (GFSK): Low Channel



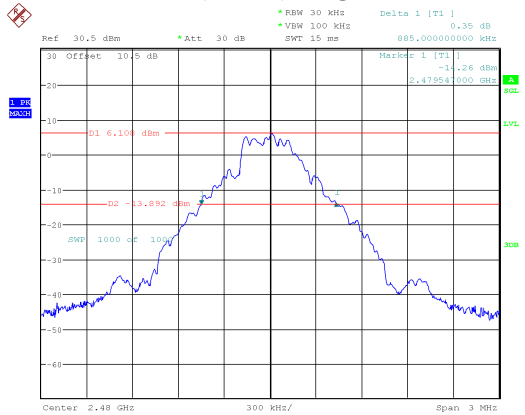
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:19:51

BDR (GFSK): Middle Channel



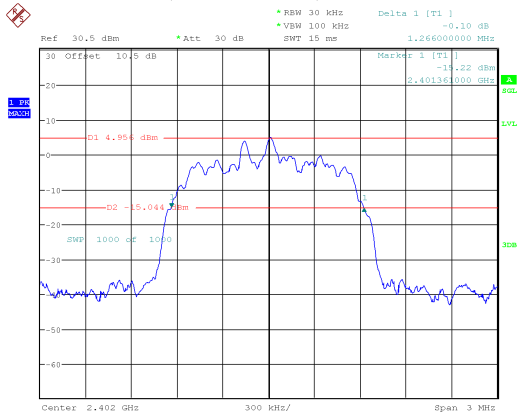
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:30:17

BDR (GFSK): High Channel



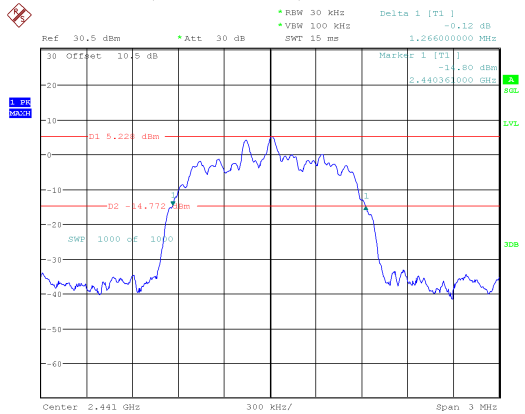
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:35:02

EDR ($\pi/4$ -DQPSK): Low Channel



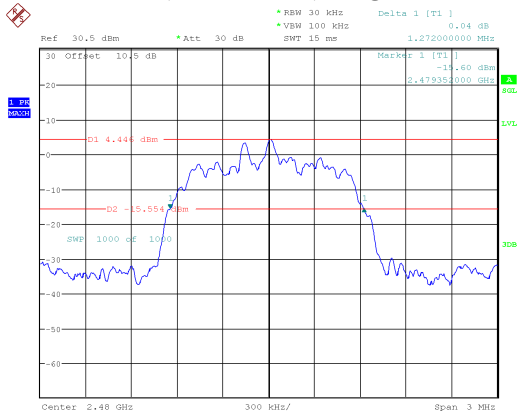
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:39:44

EDR($\pi/4$ -DQPSK): Middle Channel



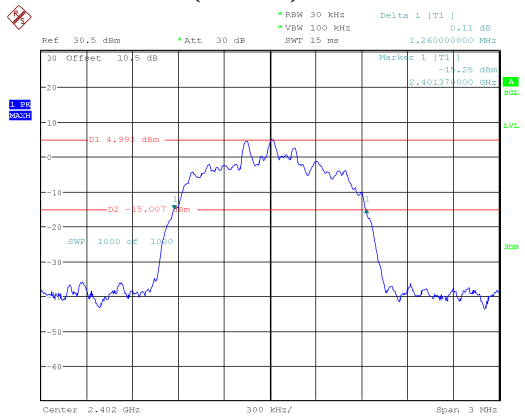
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:48:39

EDR ($\pi/4$ -DQPSK): High Channel



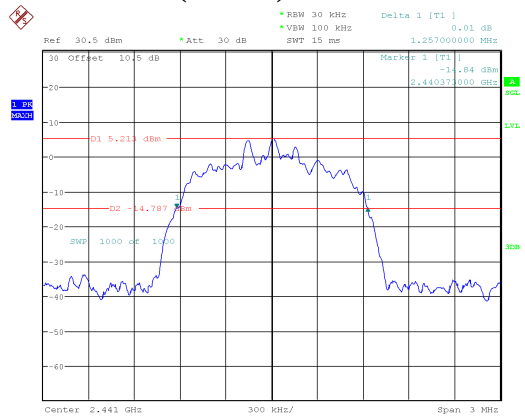
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:53:43

EDR (8DPSK): Low Channel



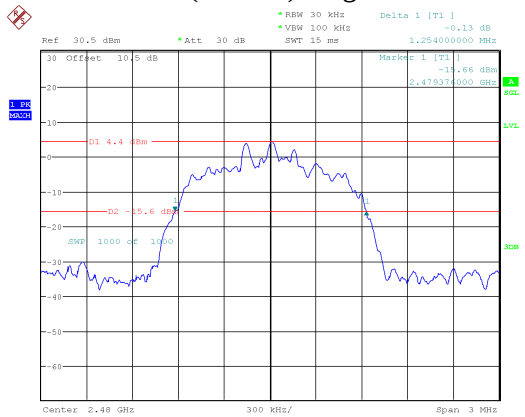
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:59:53

EDR (8DPSK): Middle Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:05:43

EDR (8DPSK): High Channel



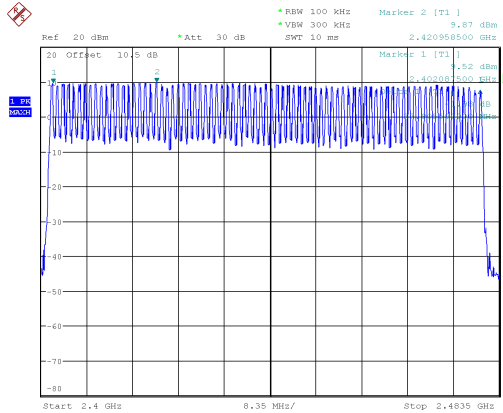
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:10:55

QUANTITY OF HOPPING CHANNEL TEST

EUT operation mode: Hopping

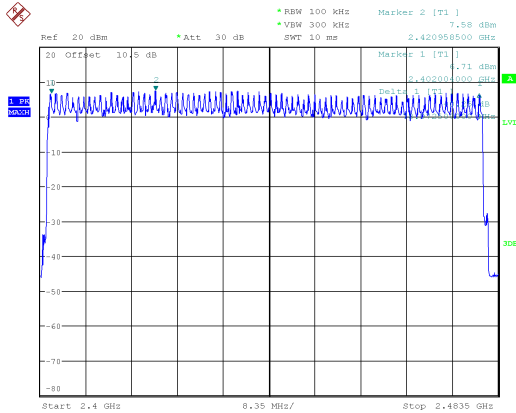
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR (π/4-DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

BDR (GFSK): Number of Hopping Channels



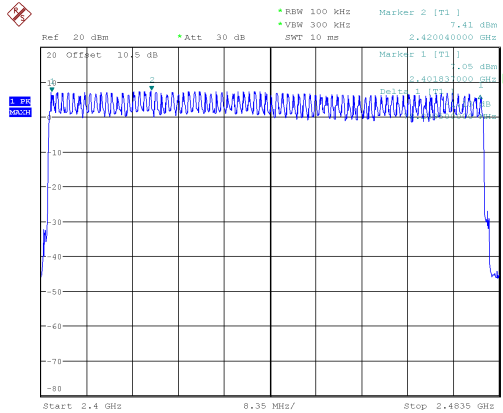
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:18:28

EDR (π/4-DQPSK): Number of Hopping Channels



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:22:31

EDR (8DPSK): Number of Hopping Channels

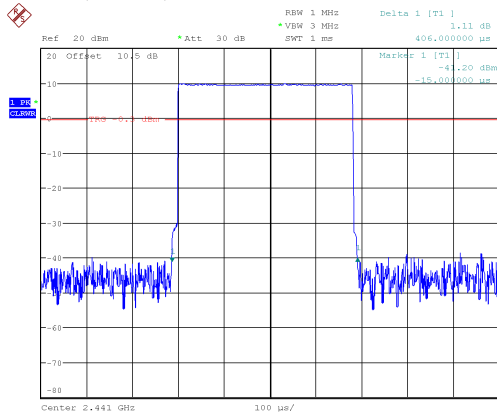


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:27:29

TIME OF OCCUPANCY (DWELL TIME)*EUT operation mode: Hopping*

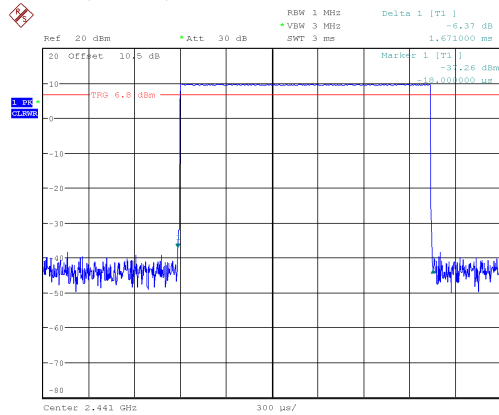
Mode		Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
BDR (GFSK)	DH1	Middle	0.406	0.130	0.4	Pass
		Note: DH1: Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH3	Middle	1.671	0.267	0.4	Pass
		Note: DH3: Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH5	Middle	2.940	0.314	0.4	Pass
		Note: DH5: Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH1	Middle	0.412	0.132	0.4	Pass
		Note: 2DH1: Dwell time = Pulse time*(1600/2/79)*31.6S				
	2DH3	Middle	1.674	0.268	0.4	Pass
		Note: 2DH3: Dwell time = Pulse time*(1600/4/79)*31.6S				
	2DH5	Middle	2.940	0.314	0.4	Pass
		Note: 2DH5: Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	3DH1	Middle	0.413	0.132	0.4	Pass
		Note: 3 DH1: Dwell time = Pulse time*(1600/2/79)*31.6S				
	3DH3	Middle	1.674	0.268	0.4	Pass
		Note: 3DH3: Dwell time = Pulse time*(1600/4/79)*31.6S				
	3DH5	Middle	2.945	0.314	0.4	Pass
		Note: 3DH5: Dwell time = Pulse time*(1600/6/79)*31.6S				

BDR (GFSK): Pulse time, Middle Channel, DH1



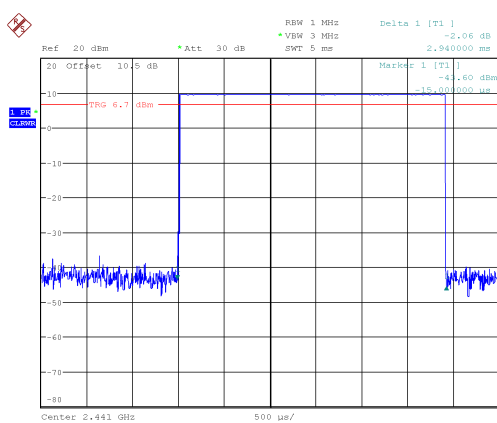
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:29:20

BDR (GFSK): Pulse time, Middle Channel, DH3

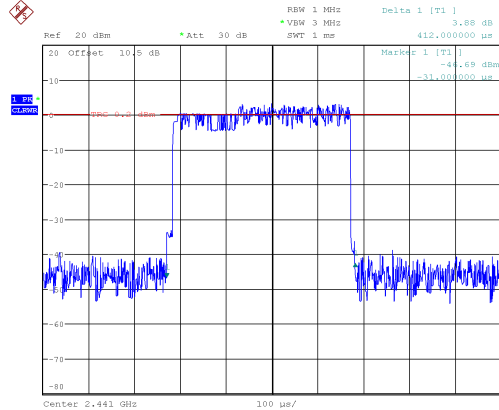


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:30:13

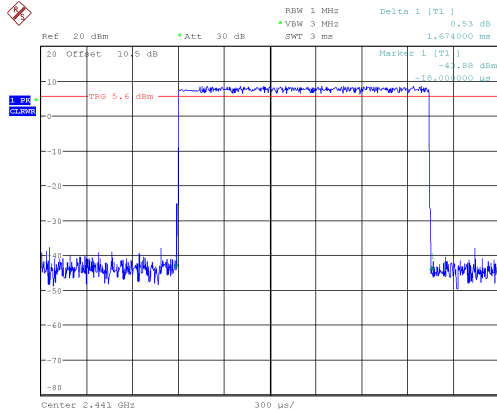
BDR (GFSK): Pulse time, Middle Channel, DH5



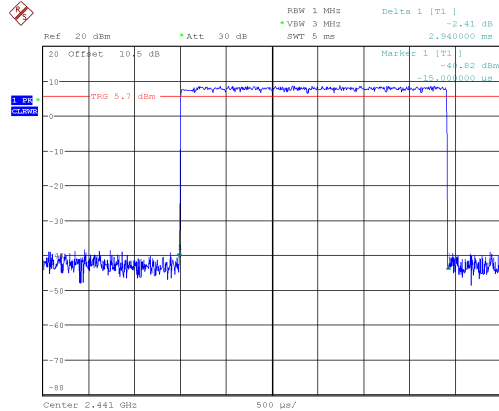
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:31:46

EDR ($\pi/4$ -DQPSK): Pulse time, Middle Channel, 2DH1

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:32:26

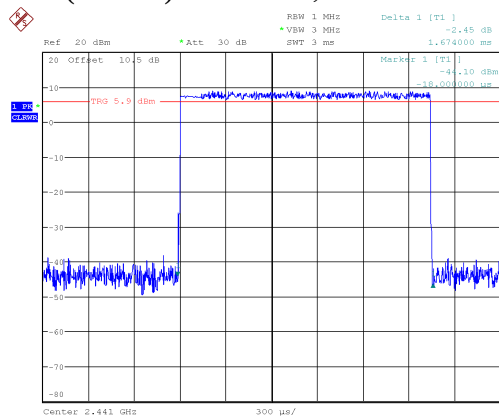
EDR ($\pi/4$ -DQPSK): Pulse time, Middle Channel, 2DH3

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:33:58

EDR ($\pi/4$ -DQPSK): Pulse time, Middle Channel, 2DH5

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:34:40

EDR (8DPSK): Pulse time, Middle Channel, 3DH3

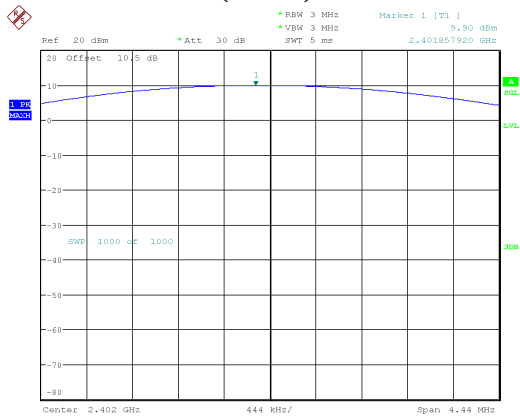


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:36:43

PEAK OUTPUT POWER MEASUREMENT*EUT operation mode: Transmitting*

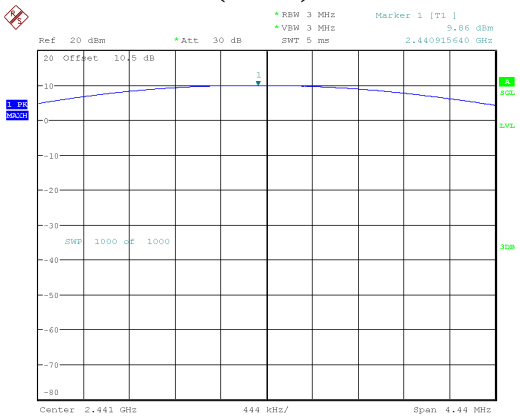
Mode	Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)
GFSK	Low	2402	9.90	21
	Middle	2441	9.86	
	High	2480	8.51	
$\pi/4$ DQPSK	Low	2402	9.06	
	Middle	2441	9.13	
	High	2480	7.94	
8DPSK	Low	2402	9.51	
	Middle	2441	9.55	
	High	2480	8.28	

BDR (GFSK): 2402MHz



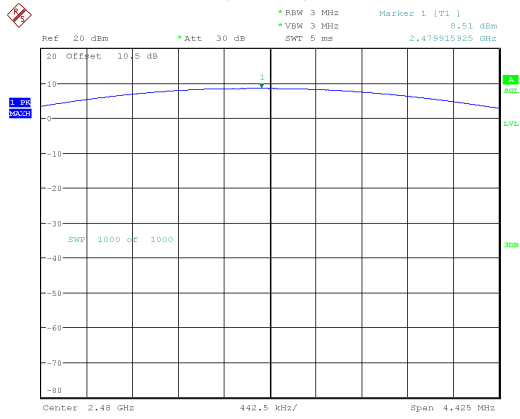
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:28:42

BDR (GFSK): 2441MHz



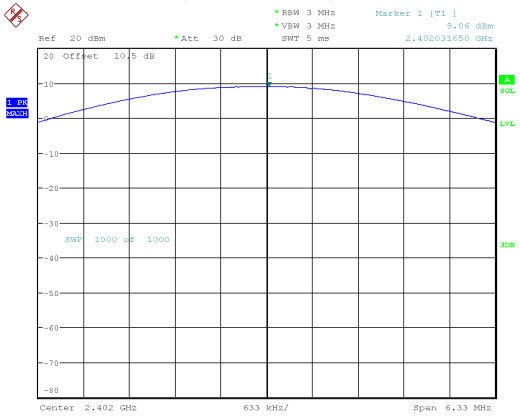
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:33:53

BDR (GFSK): 2480MHz



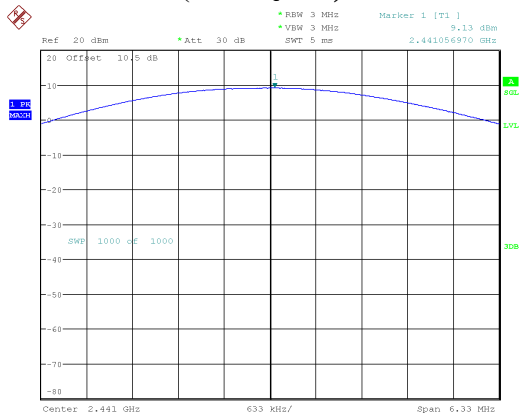
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:37:56

EDR($\pi/4$ -DQPSK): 2402MHz



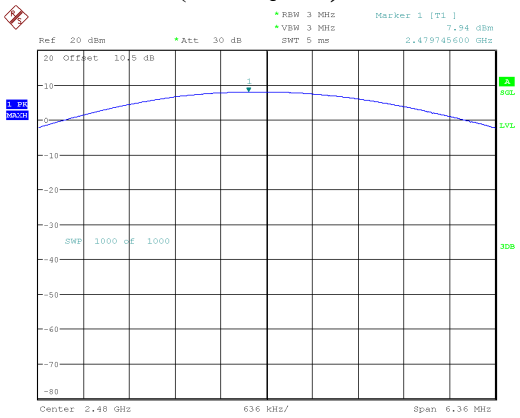
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:47:04

EDR($\pi/4$ -DQPSK): 2441MHz



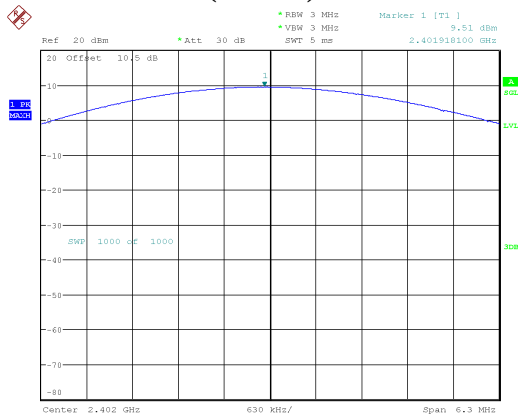
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:52:11

EDR($\pi/4$ -DQPSK): 2480MHz



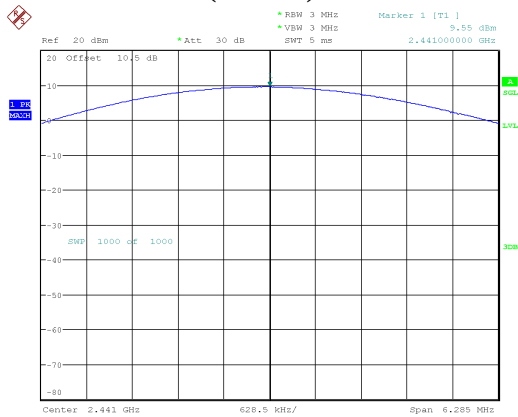
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:58:37

EDR(8DPSK): 2402MHz



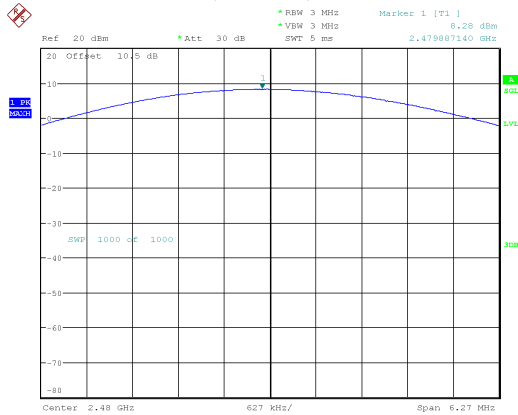
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:03:43

EDR(8DPSK): 2441MHz



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:08:05

EDR(8DPSK): 2480MHz

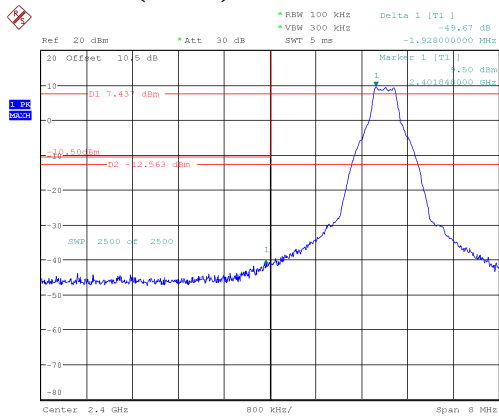


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:14:06

BAND EDGES*EUT operation mode: Transmitting & Hopping**Test Result: Compliant.*

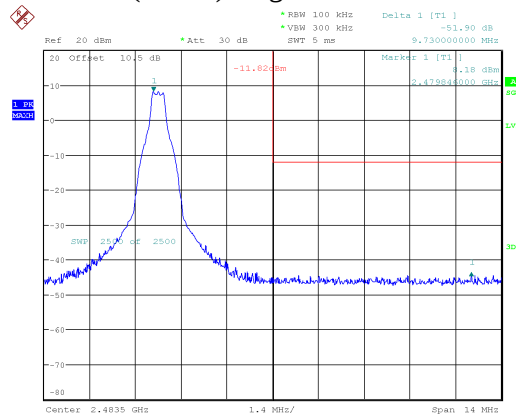
Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
GFSK	Low	2402	49.67	20
	High	2480	51.90	
$\pi/4$ DQPSK	Low	2402	51.47	
	High	2480	52.20	
8DPSK	Low	2402	48.98	
	High	2480	50.33	
GFSK (Hopping)	Low	2402	48.91	
	High	2480	50.71	
$\pi/4$ DQPSK (Hopping)	Low	2402	47.97	
	High	2480	50.69	
8DPSK (Hopping)	Low	2402	51.02	
	High	2480	50.35	

BDR (GFSK): Left Side - Transmitting



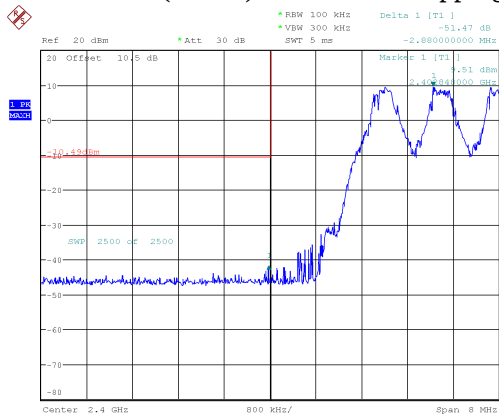
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:17:46

BDR (GFSK): Right Side - Transmitting



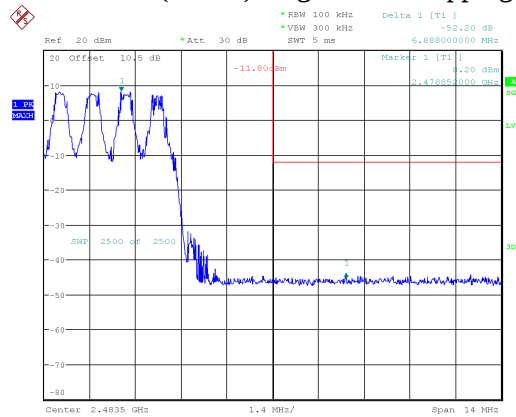
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:22:00

BDR (GFSK): Left Side - Hopping

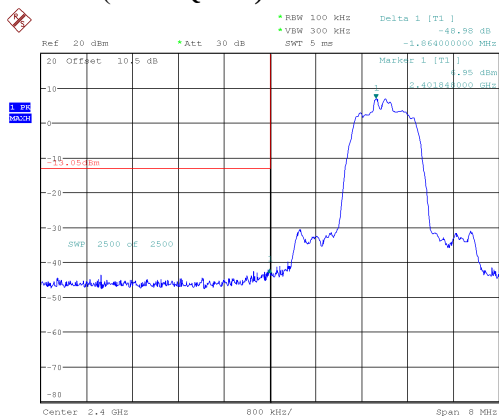


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:16:42

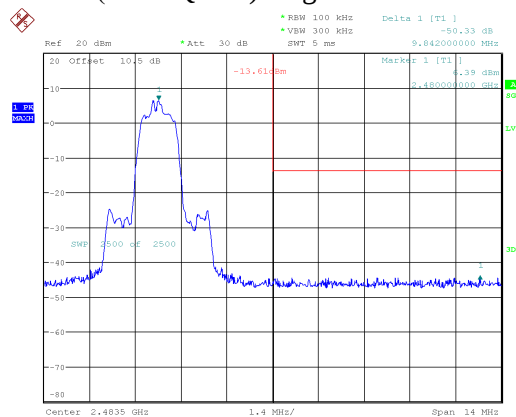
BDR (GFSK): Right Side- Hopping



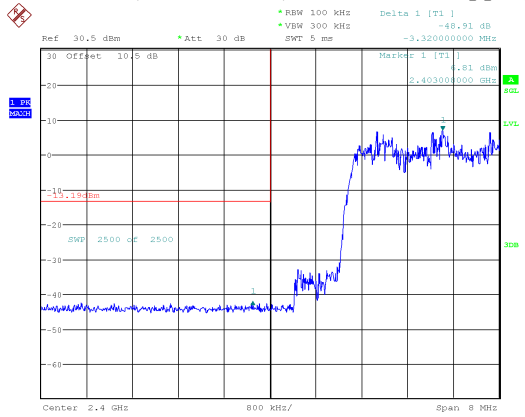
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:19:31

EDR ($\pi/4$ -DQPSK): Left Side - Transmitting

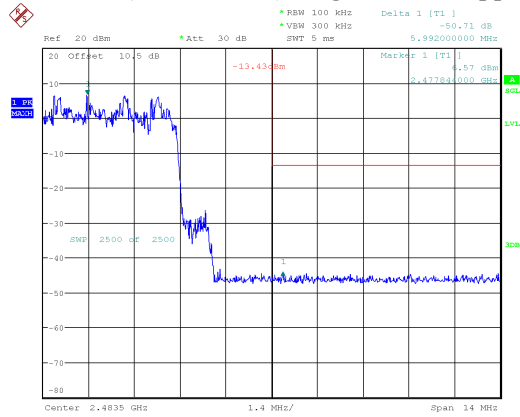
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:58:19

EDR ($\pi/4$ -DQPSK): Right Side - Transmitting

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:00:50

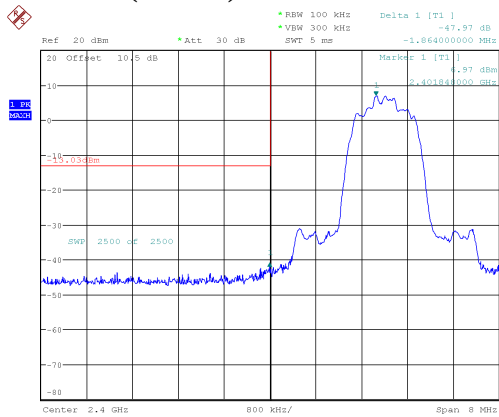
EDR ($\pi/4$ -DQPSK): Left Side- Hopping

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:51:49

EDR ($\pi/4$ -DQPSK): Right Side- Hopping

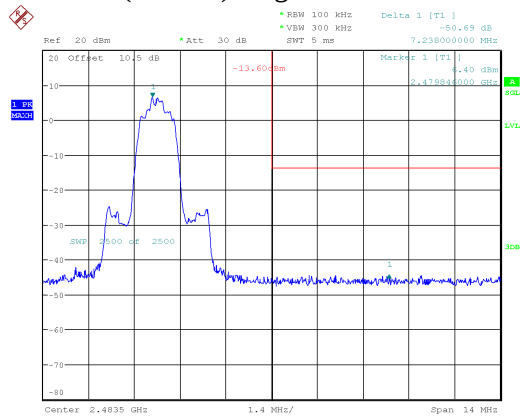
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 15:56:32

EDR (8DPSK): Left Side - Transmitting



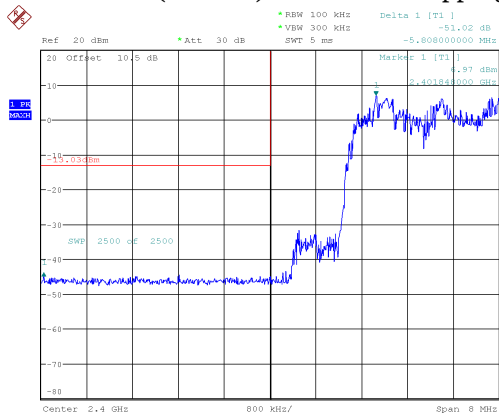
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:07:13

EDR (8DPSK): Right Side - Transmitting



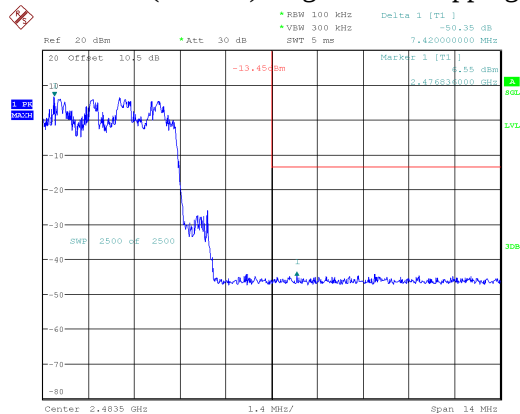
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:09:35

EDR (8DPSK): Left Side- Hopping



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:02:56

EDR (8DPSK): Right Side- Hopping



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 16:05:20

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 *******