

Prüfbericht-Nr.: Test report no.:	CN262X19 001	Auftrags-Nr.: Order no.:	326182452	Seite 1 von 46 Page 1 of 46
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2026-04-20	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	BRANDHAKE			
Bezeichnung / Typ-Nr.: Identification / Type no.:	E2588			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 6, July 30, 2026 RSS-247 Issue 4, July 24, 2025			
Wareneingangsdatum: Date of sample receipt:	2026-04-29 2026-05-19	Refer to photo document.		
Prüfmuster-Nr.: Test sample no:	A004265396-003~004 A004281009-001~002			
Prüfzeitraum: Testing period:	2026-05-21 ~ 2026-06-25			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	☒ <u>Hongfei Wu</u>		genehmigt von: authorized by:	☒ <u>Tianlin Li</u>
Datum: Date:	2026-08-27	Signed by: Hongfei Wu	Datum: Date:	2026-08-27 Signed by: Tianlin Li
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: FHO-E2588 IC: 10912A-E2588 HVIN: E2588 PMN: BRANDHAKE This report is for Thread and simultaneous transmission.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 6dB & 99% BANDWIDTH***RESULT: Pass***5.1.3 OUTPUT POWER***RESULT: Pass***5.1.4 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: Pass***5.3.1 RADIATED BAND-EDGE***RESULT: Pass***5.3.2 RADIATED SPURIOUS EMISSION***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.

Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equip.	Description	Model	Manufacturer	Due Date
EMC-C-196	Wireless connectivity tester	CMW270	Rohde & Schwarz	2027-08-09
EMC-C-302	Signal generator	SMB100B (6 GHz)	Rohde & Schwarz	2026-11-27
EMC-C-303	Vector Signal generator	SMW200A	Rohde & Schwarz	2026-11-27
EMC-C-304	OSP	OSP-B157W8	Rohde & Schwarz	2026-12-17
EMC-C-161	Spectrum analyser	FSV40	Rohde&Schwarz	2027-06-11
EMC-C-019	Double ridged horn antenna	BBHA 9120 D	Schwarzbeck	2026-08-28
EMC-C-066	EMI test receiver	ESCI	Rohde&Schwarz	2026-09-28
EMC-C-068	Broadband horn antenna	BBHA 9170	Schwarzbeck	2028-06-18
EMC-C-155	BiLog antenna	CBL 6112D	Teseq	2026-09-24
EMC-C-175	Preamplifier	EMC051845SE	EMCI Taiwan	2027-06-16
EMC-C-176	Preamplifier	EMC184045SE	EMCI Taiwan	2027-06-16
EMC-C-001	3 m semi-anechoic chamber	SAC3	Frankonia	2026-12-03
EMC-C-195	EMI test receiver	ESR3	Rohde&Schwarz	2026-08-02
EMC-C-190	Artificial mains network	ENV432	Rohde&Schwarz	2026-09-02
software				
EMC-S-036	RF measurement software	WMS32-WB (11.40.00)	Rohde&Schwarz	NA
EMC-S-032	EMI measurement software	EMC32-E+ (10.60.20)	Rohde&Schwarz	NA
EMC-S-028	EMI measurement software	EMC32-MEB (10.60.20)	Rohde&Schwarz	NA

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Conducted Emission	150kHz - 30MHz	±2.33dB
Radiated Emission	9kHz - 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a hub which support 2.4GHz Wi-Fi, Bluetooth Low Energy, Zigbee and Thread.

The aim of this report is to evaluate RF character of Thread of the EUT.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	BRANDHAKE
Model No.:	E2588
Operation Voltage:	DC 5V (USB)
RF Technical:	1) Wi-Fi 2) BLE 3) Zigbee 4) Thread
Technical Specification of Thread	
Frequency Range:	2405~2480MHz
Modulation Type:	OQPSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.72 dBi (declared by client)

Table 4: Operation Channel List

RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]
11	2405	15	2425	19	2445	23	2465
12	2410	16	2430	20	2450	24	2470
13	2415	17	2435	21	2455	25	2475
14	2420	18	2440	22	2460	26	2480

3.3 Independent Operation Modes

Test frequencies are lowest channel: 2405 MHz, middle channel: 2445 MHz and highest channel: 2480 MHz

The basic operation modes are:

- A. Thread transmitting mode
- B. Radio operating mode
- C. Wi-Fi and Thread simultaneous transmitting mode
- D. BLE and Thread simultaneous transmitting mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024.

Test Software: adb

Table 5: Power parameter value

Mode	Power Parameter Setting Value
Thread	70

4.3 Special Accessories and Auxiliary Equipment

Table 6: Special Accessories

Accessories	Parameter
RF Cable between the antenna port and test system	Cable loss: 0.5dB

Note: The RF cable used in the test was provided by

- ☒ Client
☐ Test Lab

And the cable loss has been factored in the related test.

Table 7: Auxiliary Equipment

Equipment	Brand	Model	Rating
Laptop	Lenovo	21AJ-S57N0J	/
Adapter	IKEA	ICPSW5-5NA-1	Input: AC 100~240V, 50/60Hz Output: DC 5V, 1A
Mobile phone	Apple	iPhone 15	/

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4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT:**Pass**

According to the manufacturer declared, the EUT has one internal PCB antenna for Thread, the directional gain of antenna is 1.72 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 8: Antenna Requirement

FCC 15.203 – Antenna Requirement 1		
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	Antenna type:	PCB antenna
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2		
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.	
Results:	Only one PCB antenna can be used	
Verdict:	Pass	

RSS-Gen 6.4 – External Control		
Requirement:	The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs	
Results:	The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.	
Verdict:	PASS	

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RSS-Gen 6.8 – Antenna Requirement

Requirement: When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

Results:

a) Antenna Type:	PCB Antenna
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	1.72 dBi

Verdict: PASS

5.1.2 6dB & 99% Bandwidth**RESULT:****Pass**

Date of testing	:	2026-05-21
Ambient temperature	:	21.4°C
Relative humidity	:	48.3%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(a)(2) RSS-247 Issue 4, July 24, 2025, Clause 6.3.1(a) RSS-Gen Issue 6, July 30, 2026, Clause 5.1
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	DC 5V
Test modes applied	:	A

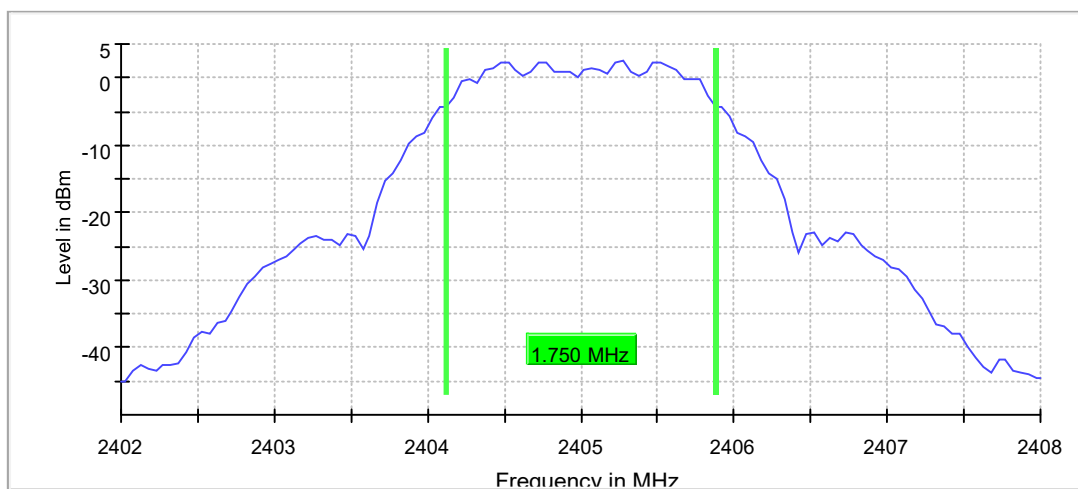
6dB Bandwidth, 2405MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2405.000000	1.750000	0.500000	---	2404.125000	2405.875000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2405.000000	2.4	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.40800 GHz	2.40800 GHz
Span	6.000 MHz	6.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	120	~ 120
Sweeptime	18.984 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	17 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.46 dB	0.50 dB

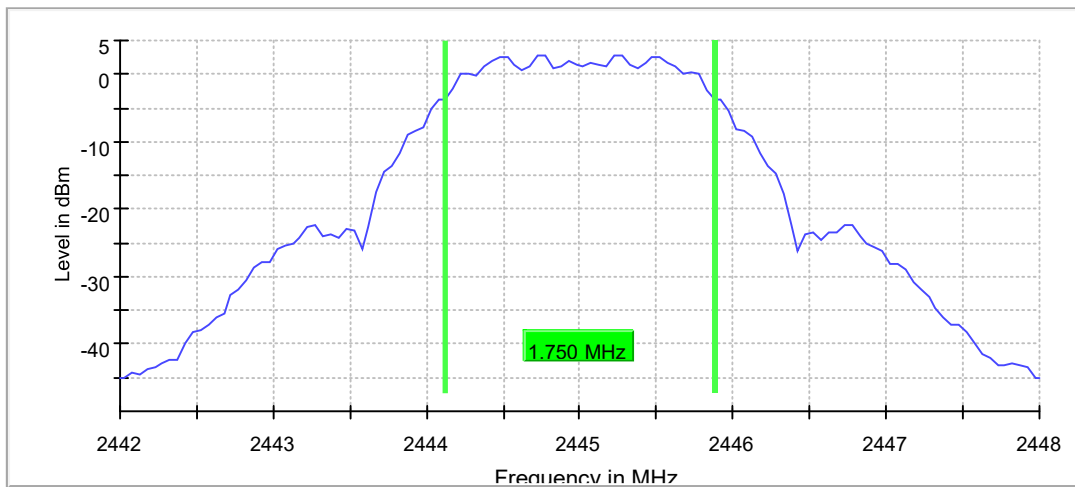
6dB Bandwidth, 2445MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2445.000000	1.750000	0.500000	---	2444.125000	2445.875000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2445.000000	2.9	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.44800 GHz	2.44800 GHz
Span	6.000 MHz	6.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	120	~ 120
Sweptime	18.984 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	17 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.04 dB	0.50 dB

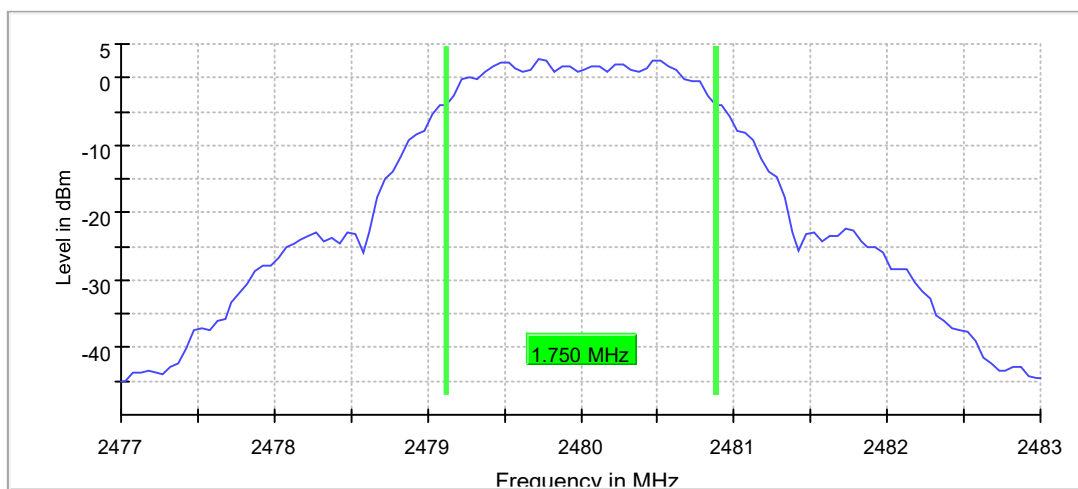
6dB Bandwidth, 2480MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.750000	0.500000	---	2479.125000	2480.875000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	2.7	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47700 GHz	2.47700 GHz
Stop Frequency	2.48300 GHz	2.48300 GHz
Span	6.000 MHz	6.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	120	~ 120
SweepTime	18.984 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	27 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

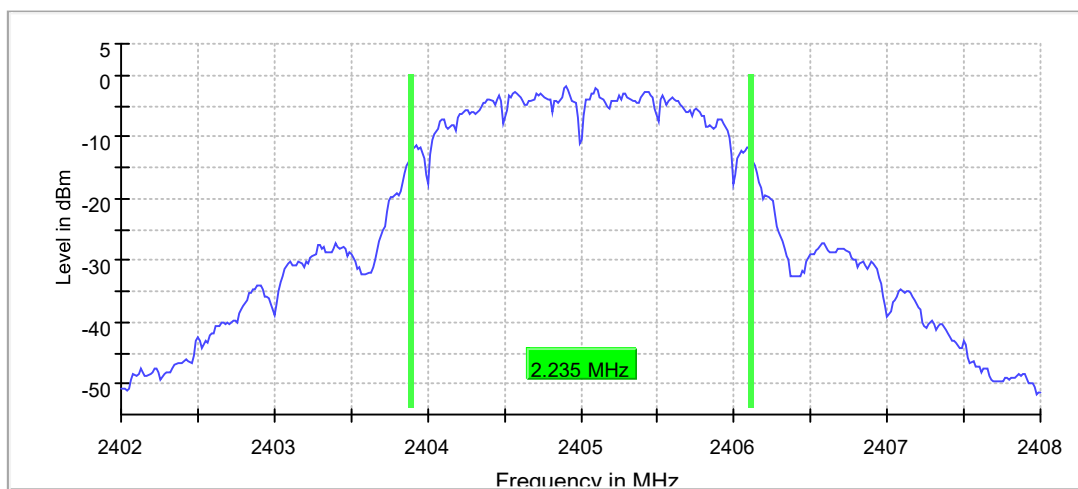
99% Occupied Channel Bandwidth, 2405MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2405.000000	2.235000	---	---	2403.882500	2406.117500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2405.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.40800 GHz	2.40800 GHz
Span	6.000 MHz	6.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	400	~ 400
SweepTime	63.216 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	20 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.25 dB	0.30 dB

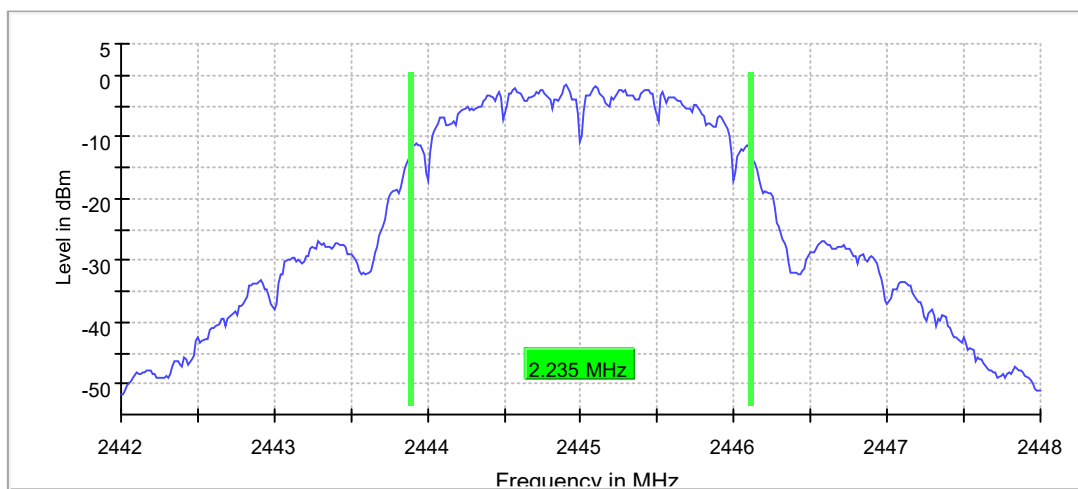
99% Occupied Channel Bandwidth, 2445MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2445.000000	2.235000	---	---	2443.882500	2446.117500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2445.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.44800 GHz	2.44800 GHz
Span	6.000 MHz	6.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	400	~ 400
Sweeptime	63.216 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	22 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.04 dB	0.30 dB

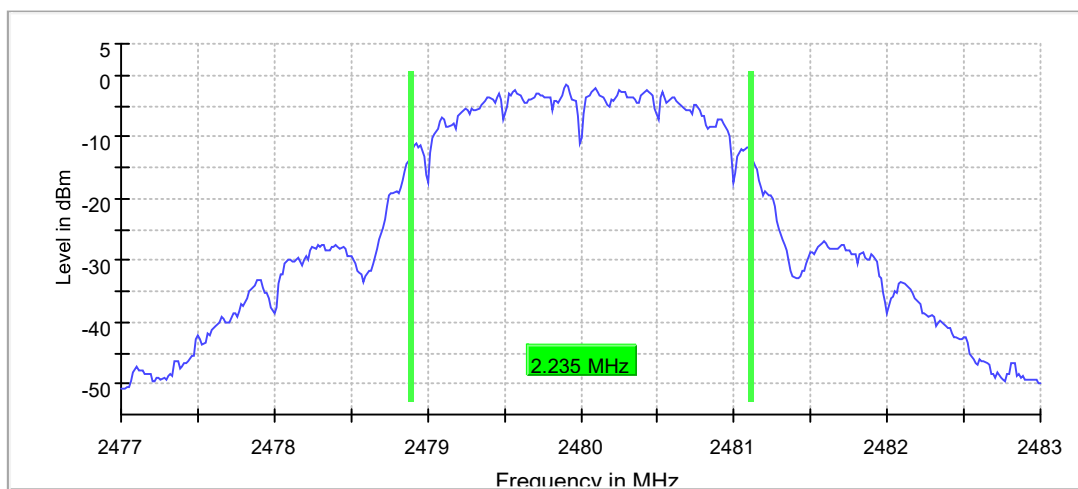
99% Occupied Channel Bandwidth, 2480MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.235000	---	---	2478.882500	2481.117500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47700 GHz	2.47700 GHz
Stop Frequency	2.48300 GHz	2.48300 GHz
Span	6.000 MHz	6.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	400	~ 400
Sweeptime	63.216 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	17 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.30 dB

5.1.3 Output Power

RESULT:**Pass**

Date of testing : 2026-05-21
Ambient temperature : 21.5°C
Relative humidity : 48.6%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(b)(3)
RSS-247 Issue 4, July 24, 2025, Clause 6.3.2
Test procedure : ANSI C63.10:2020
ANSI C63.10-2020+Cor. 1-2023+C63.10a-
2024+Errata to C63.10a-2024
Test voltage : DC 5V
Test modes applied : A

Table 9: Peak Output Power

Frequency [MHz]	Peak Conducted Output Power [dBm]	Limit [dBm]
2405	6.4	30
2445	6.8	30
2480	6.6	30

Note:

EIRP=Conducted Output Power + Antenna Gain (1.72 dBi), which is far below the 4 W (36dBm).

5.1.4 Power Spectral Density

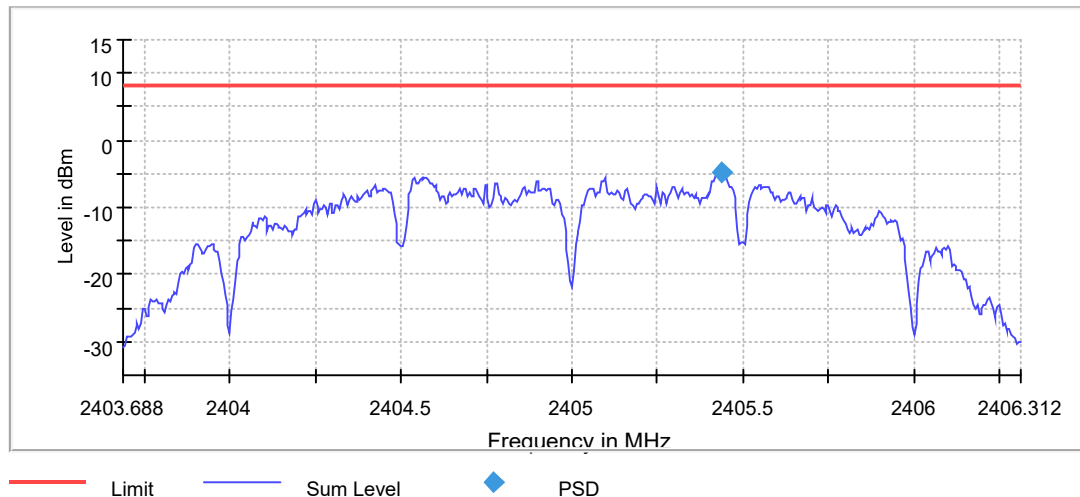
RESULT:**Pass**

Date of testing	:	2026-05-21
Ambient temperature	:	21.3°C
Relative humidity	:	48.5%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(e) RSS-247 Issue 4, July 24, 2025, Clause 6.3.1(b)
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	DC 5V
Test modes applied	:	A

Power Spectral Density, 2405MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2405.435000	-4.771	8.0	PASS

Peak Power Spectral Density

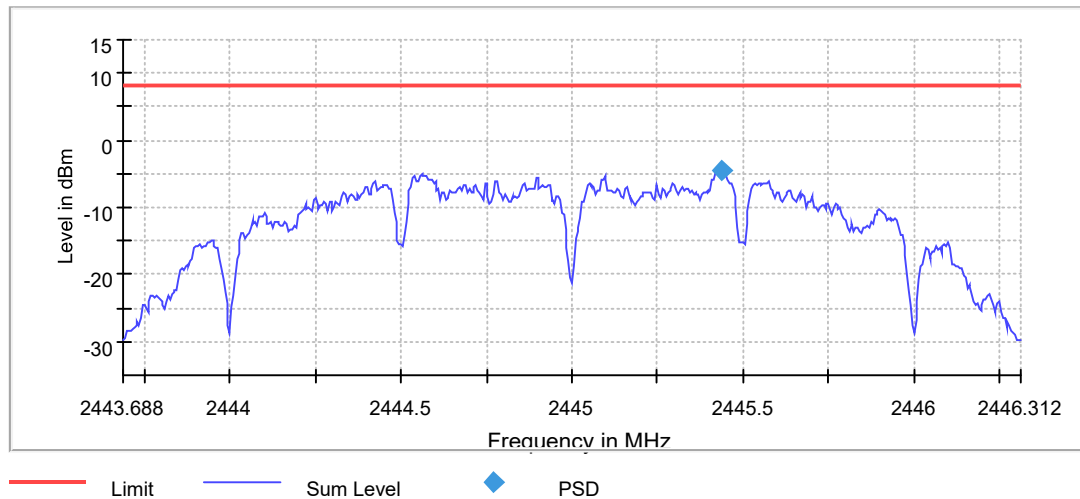

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40369 GHz	2.40369 GHz
Stop Frequency	2.40631 GHz	2.40631 GHz
Span	2.625 MHz	2.625 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	525	~ 525
Sweptime	2.630 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.47 dB	0.50 dB

Power Spectral Density, 2445MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2445.000000	2445.435000	-4.368	8.0	PASS

Peak Power Spectral Density

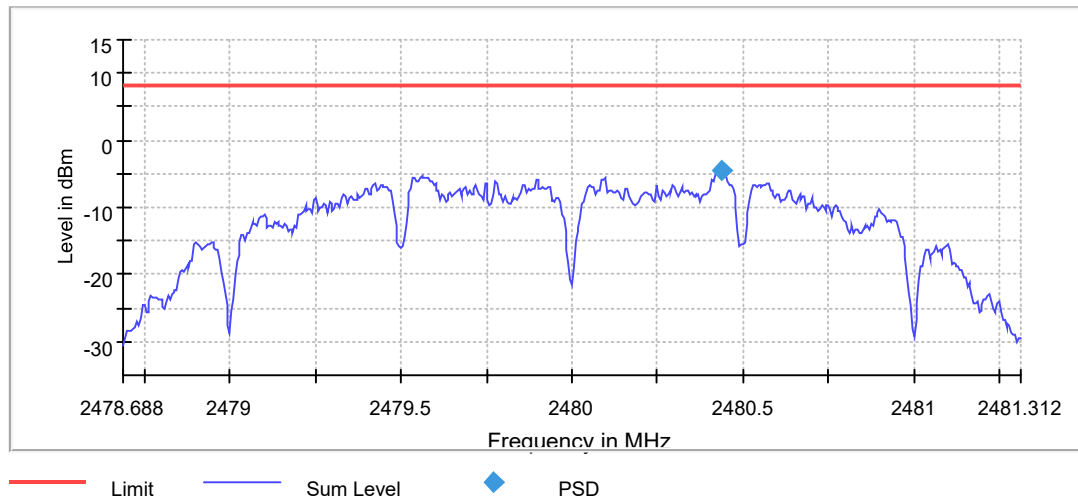

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44369 GHz	2.44369 GHz
Stop Frequency	2.44631 GHz	2.44631 GHz
Span	2.625 MHz	2.625 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	525	~ 525
SweepTime	2.630 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.37 dB	0.50 dB

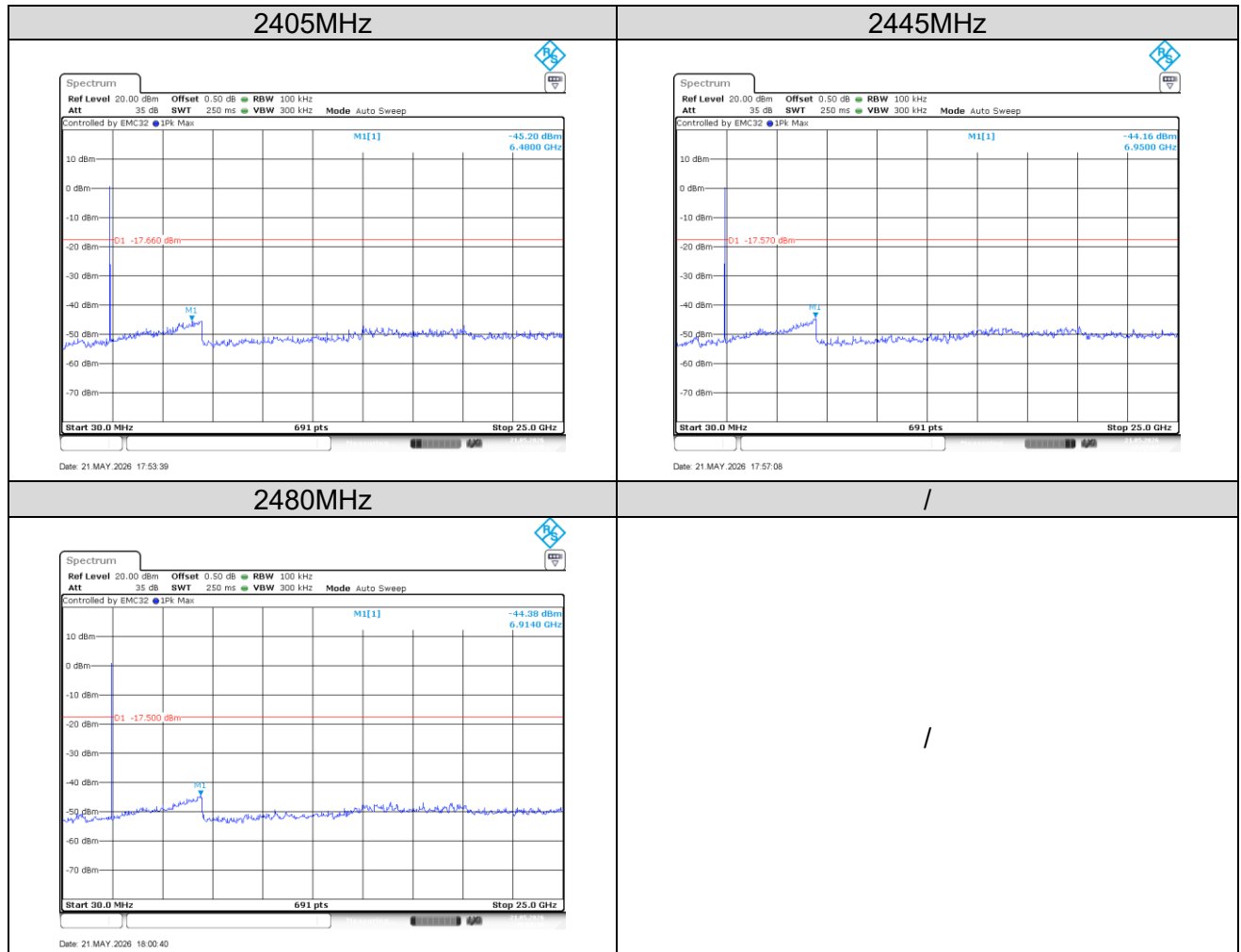
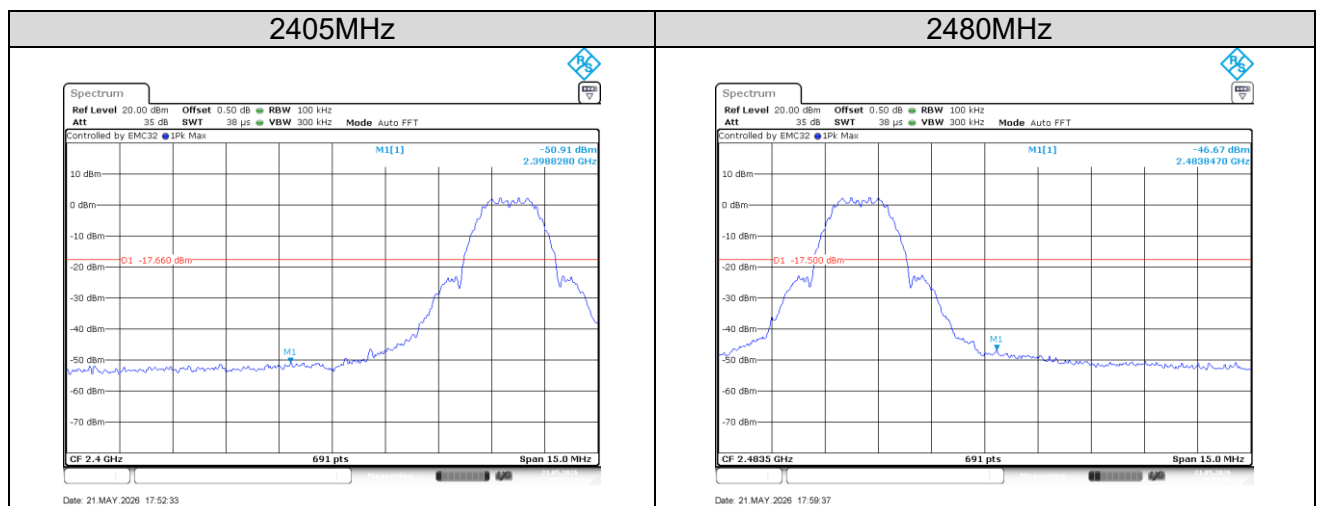
Power Spectral Density, 2480MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.435000	-4.560	8.0	PASS

Peak Power Spectral Density


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47869 GHz	2.47869 GHz
Stop Frequency	2.48131 GHz	2.48131 GHz
Span	2.625 MHz	2.625 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	525	~ 525
Sweptime	2.630 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.08 dB	0.50 dB

Figure 2: Conducted Spurious Emission

Figure 3: Conducted Band Edge


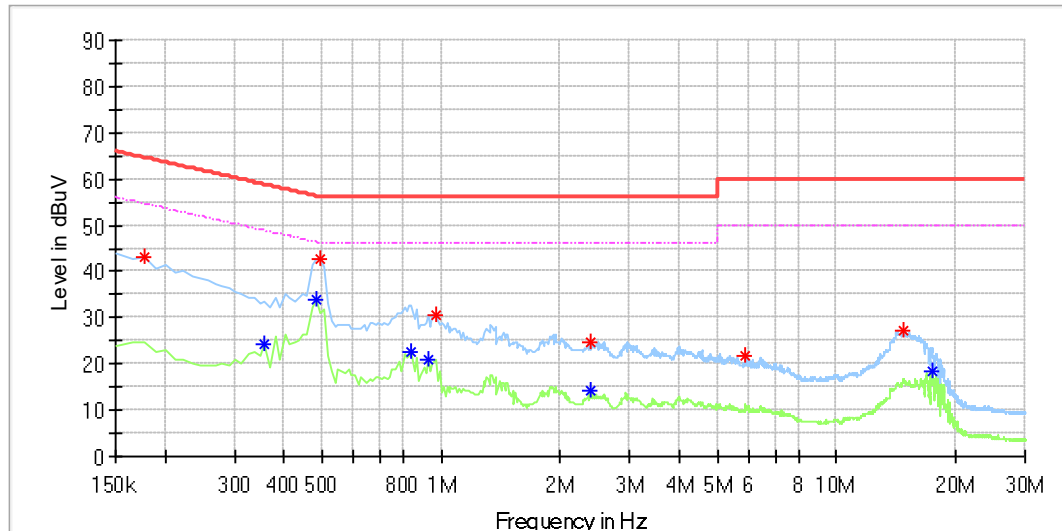
5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:**Pass**

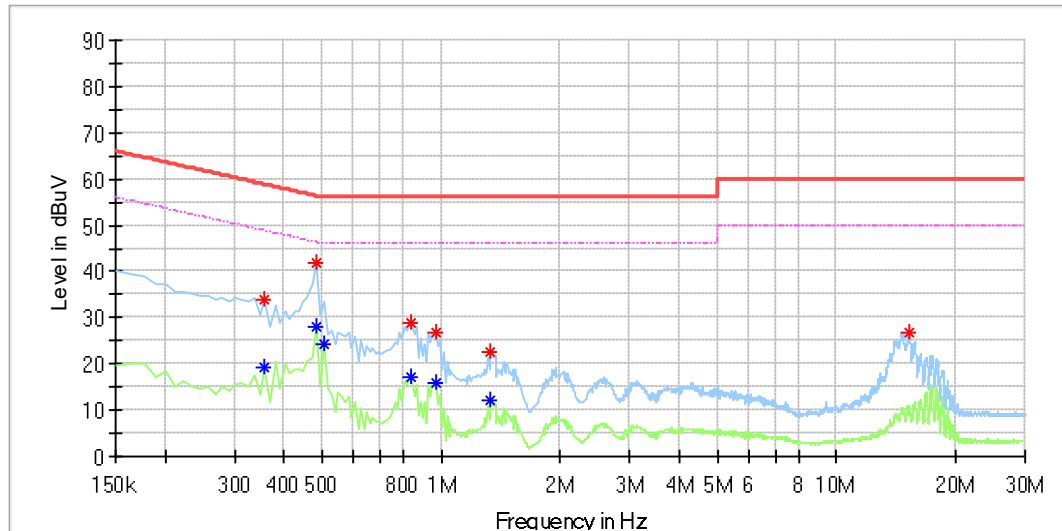
Date of testing	: 2026-06-01
Ambient temperature	: 22.1°C
Relative humidity	: 49.4%
Atmospheric pressure	: 101kPa
Test requirement	: FCC Part 15.207 (a) RSS-Gen Issue 6, July 30, 2026, Clause 7.4.2
Test procedure	: ANSI C63.10:2020 ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	: AC 120V, 60Hz (powered by adapter)
Test modes applied	: B

Figure 4: Conducted Emission, L



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.178125	43.24	---	64.57	21.33	L1
0.358125	---	24.39	48.77	24.39	L1
0.481875	---	33.84	46.31	12.46	L1
0.493125	42.86	---	56.12	13.26	L1
0.841875	---	22.74	46.00	23.26	L1
0.931875	---	21.06	46.00	24.94	L1
0.965625	30.62	---	56.00	25.38	L1
2.383125	---	14.05	46.00	31.95	L1
2.383125	24.84	---	56.00	31.16	L1
5.893125	21.90	---	60.00	38.10	L1
14.825625	27.16	---	60.00	32.84	L1
17.390625	---	18.47	50.00	31.53	L1

Figure 5: Conducted Emission, N

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.358125	33.93	---	58.77	24.85	N
0.358125	---	19.18	48.77	29.59	N
0.481875	41.85	---	56.31	14.45	N
0.481875	---	28.04	46.31	18.27	N
0.504375	---	24.23	46.00	21.77	N
0.841875	---	17.13	46.00	28.87	N
0.841875	28.73	---	56.00	27.27	N
0.965625	---	16.01	46.00	29.99	N
0.965625	26.91	---	56.00	29.09	N
1.336875	---	12.12	46.00	33.88	N
1.336875	22.53	---	56.00	33.47	N
15.241875	26.66	---	60.00	33.34	N

5.3 Emission in the Frequency Range above 30MHz

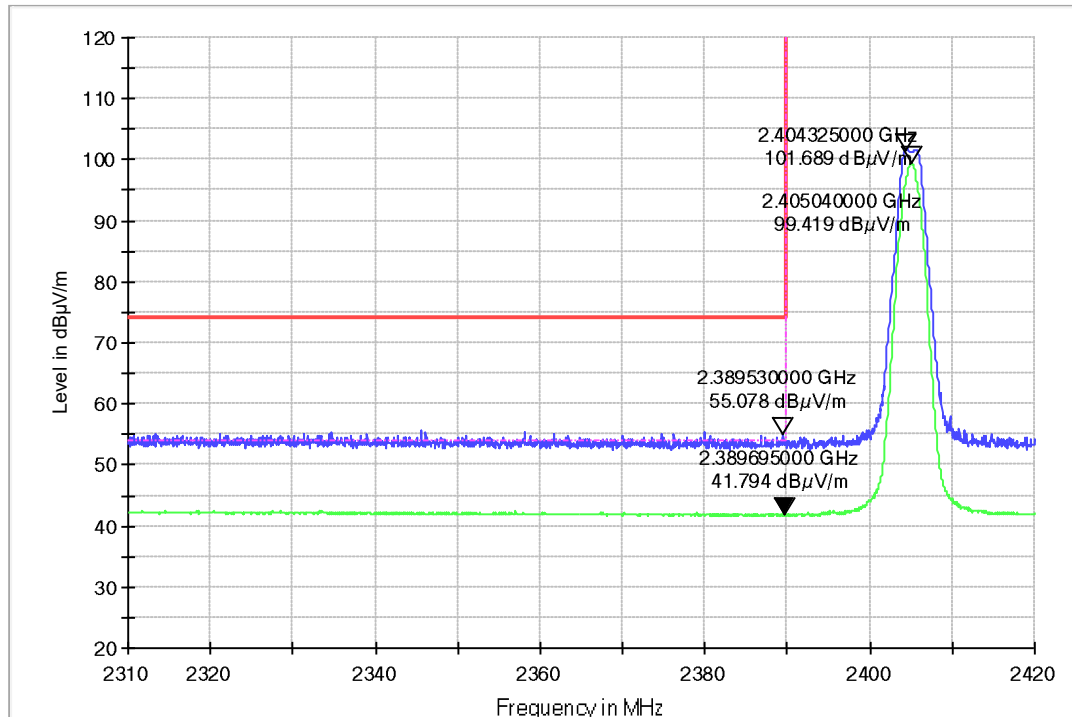
5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	:	2026-05-26
Ambient temperature	:	20.6°C
Relative humidity	:	40.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 6, July 30, 2026, Clause 7.4.3 RSS-Gen Issue 6, July 30, 2026, Clause 7.5 RSS-247 Issue 4, July 24, 2025, Clause 6.6
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	DC 5V
Test modes applied	:	A

Figure 6: Radiated Band-Edge, 2405MHz, H

XXY- 2310~ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 7: Radiated Band-Edge, 2405MHz, V

XXY- 2310~ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG

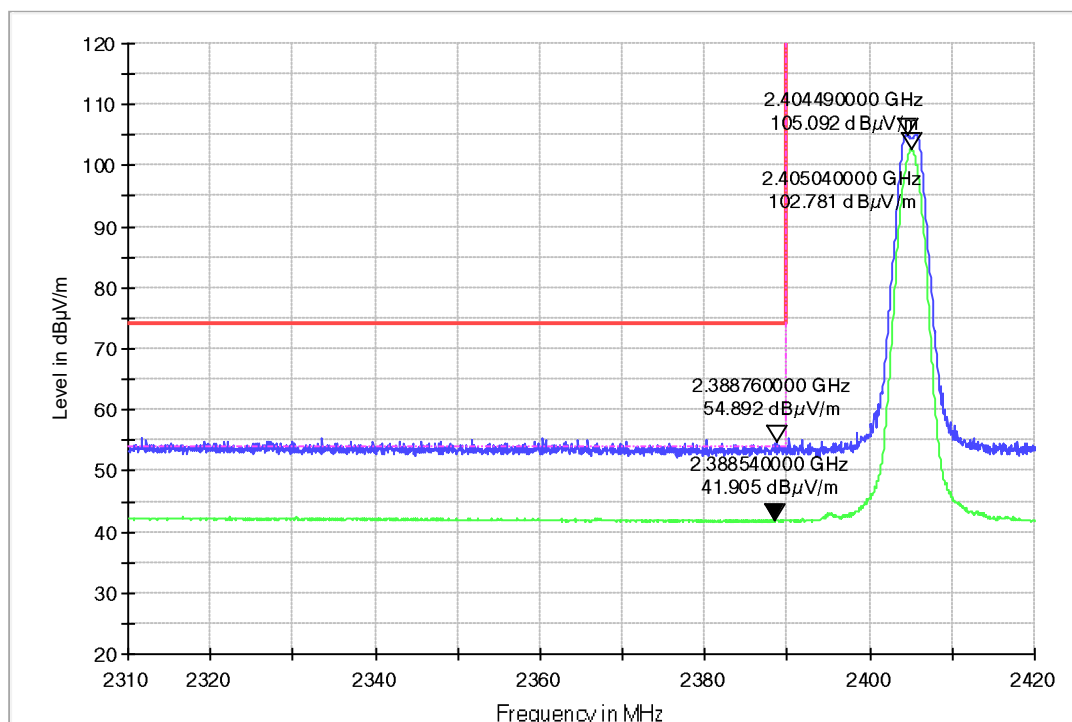
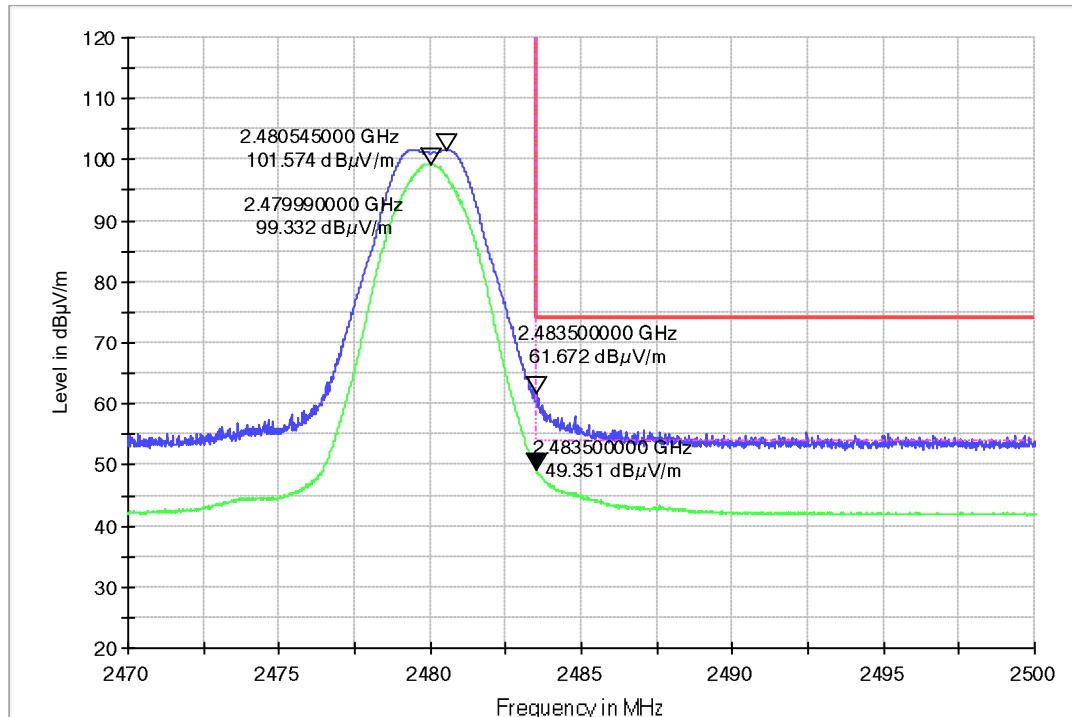
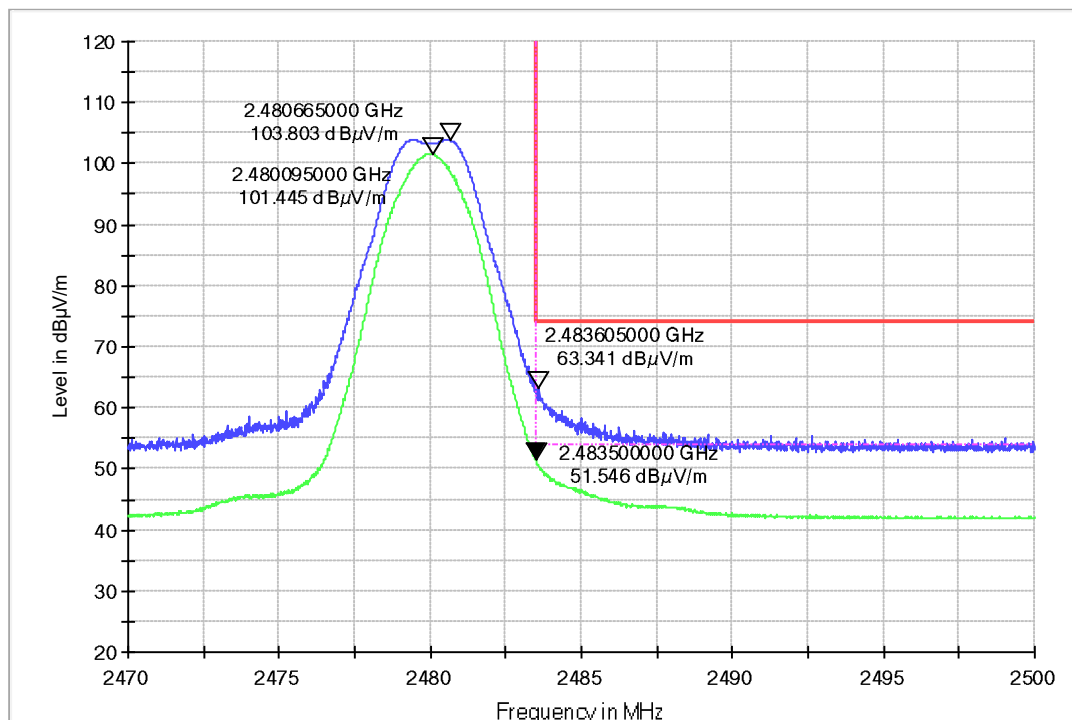


Figure 8: Radiated Band-Edge, 2480MHz, H

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 9: Radiated Band-Edge, 2480MHz, V

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG

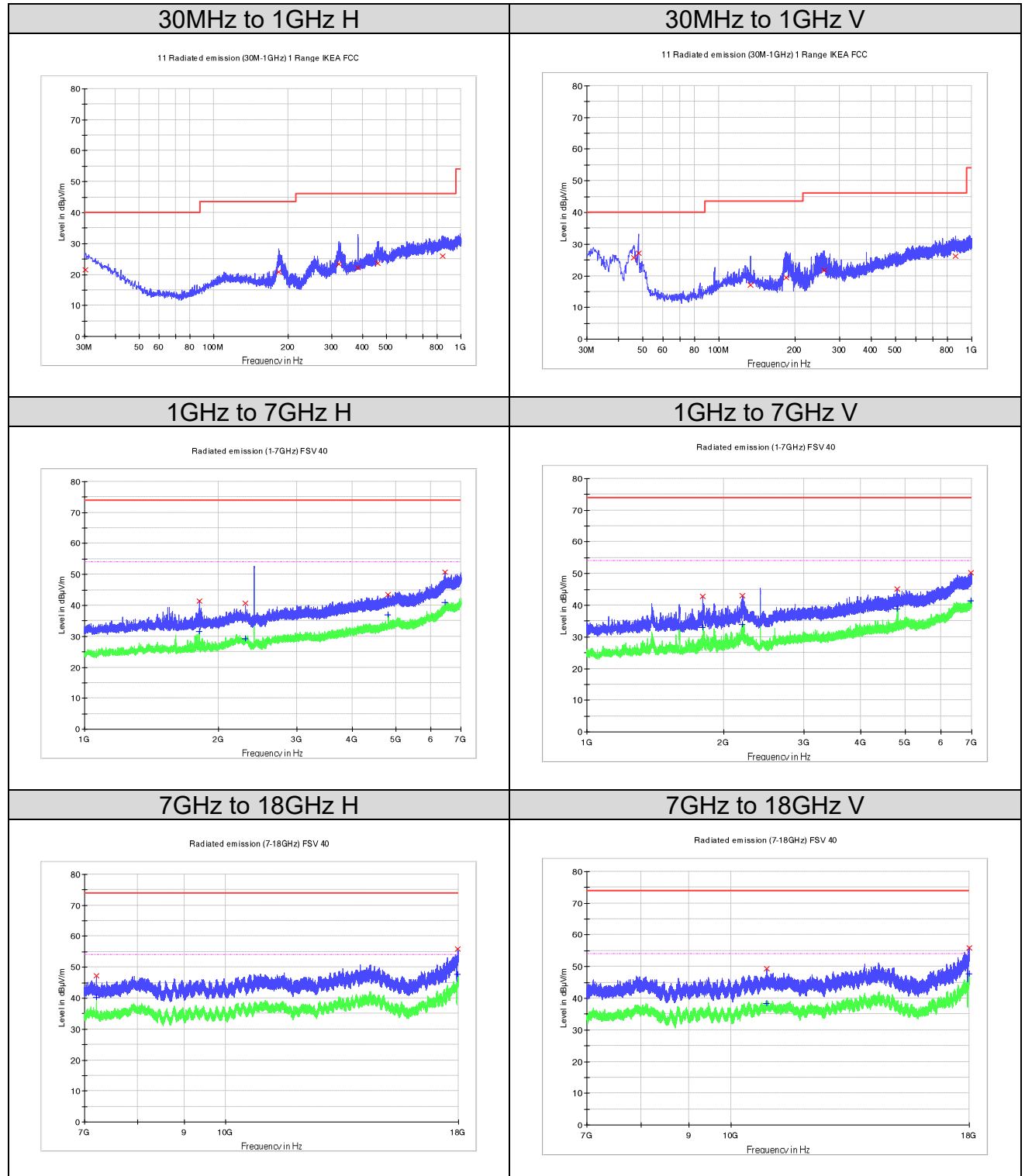


5.3.2 Radiated Spurious Emission**RESULT:****Pass**

Date of testing	:	2026-06-25
Ambient temperature	:	20.5°C
Relative humidity	:	40.3%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 6, July 30, 2026, Clause 7.4.3 RSS-247 Issue 4, July 24, 2025, Clause 6.6
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	DC 5V
Test modes applied	:	A, C, D

Note:

For the frequency range from 18GHz to 25GHz, no emission was found.

Figure 10: Radiated Spurious Emission, 2405MHz


Limit and Margin
QP

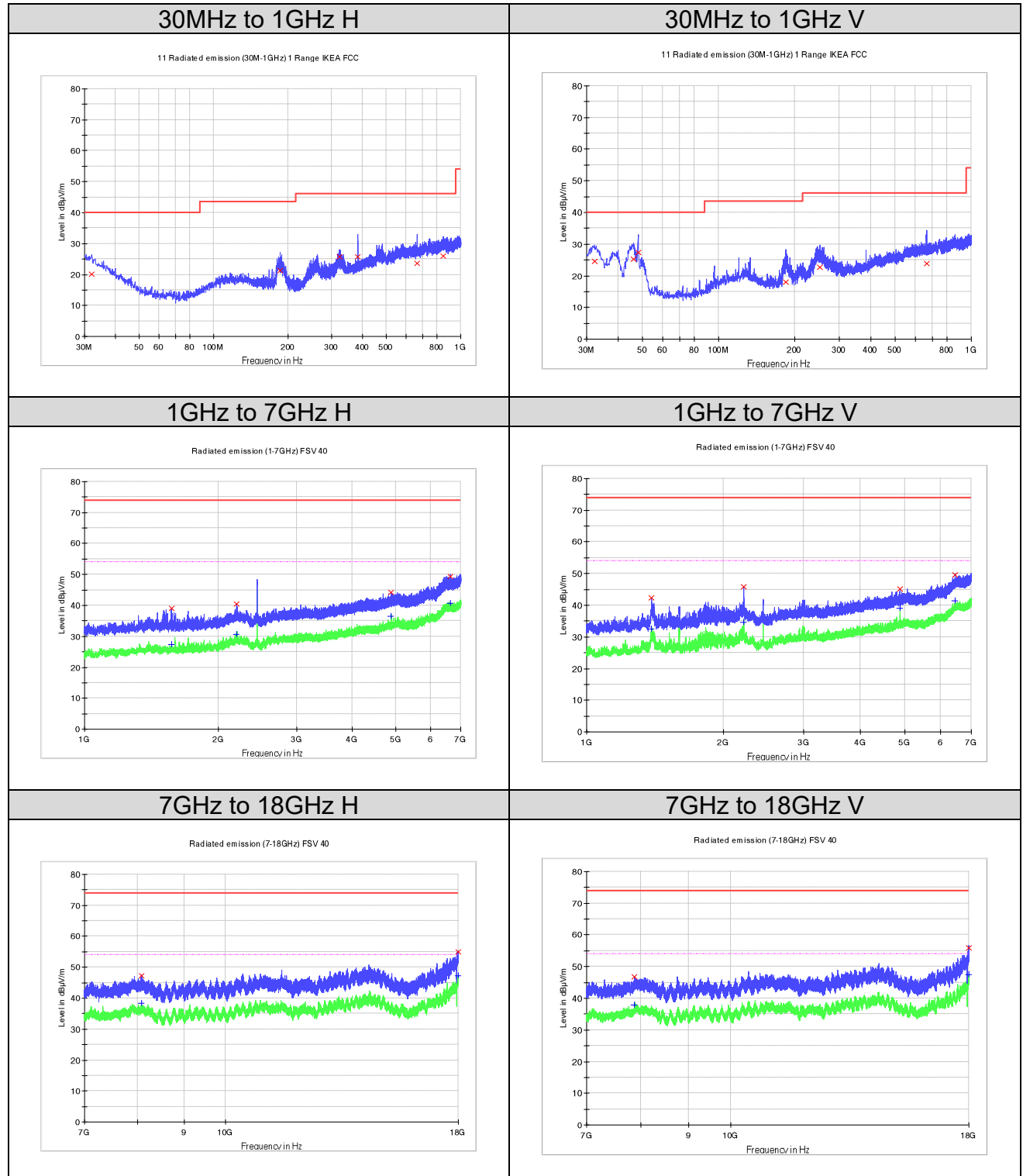
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.121250	21.5	H	25.3	18.5	40.0
182.653750	20.8	H	16.0	22.7	43.5
320.636250	23.3	H	21.0	22.7	46.0
383.080000	22.2	H	22.4	23.8	46.0
460.922500	23.6	H	24.5	22.4	46.0
844.921250	25.9	H	29.0	20.1	46.0
45.883750	25.7	V	16.6	14.3	40.0
47.945000	27.2	V	15.7	12.8	40.0
132.941250	17.0	V	18.4	26.5	43.5
184.957500	19.4	V	15.9	24.1	43.5
260.375000	21.7	V	21.5	24.3	46.0
864.078750	26.1	V	29.1	19.9	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1809.181818	41.4	H	-18.7	32.6	74.0
2299.545455	40.6	H	-15.7	33.4	74.0
4809.454546	43.6	H	-11.2	30.4	74.0
6462.181818	50.8	H	-7.6	23.3	74.0
7216.562500	47.3	H	-6.0	26.7	74.0
17981.437500	55.9	H	11.8	18.1	74.0
1796.909091	42.8	V	-18.8	31.2	74.0
2197.000000	43.1	V	-15.7	30.9	74.0
4810.272727	45.1	V	-11.2	28.9	74.0
6976.818182	50.2	V	-6.4	23.8	74.0
10912.562500	49.3	V	-1.4	24.7	74.0
17985.906250	56.0	V	11.9	18.0	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1809.181818	31.7	H	-18.7	22.3	54.0
2299.545455	29.2	H	-15.7	24.8	54.0
4809.454546	36.9	H	-11.2	17.2	54.0
6462.181818	41.0	H	-7.6	13.0	54.0
7216.562500	40.2	H	-6.0	13.9	54.0
17981.437500	47.7	H	11.8	6.3	54.0
1796.909091	33.0	V	-18.8	21.0	54.0
2197.000000	33.9	V	-15.7	20.1	54.0
4810.272727	38.9	V	-11.2	15.1	54.0
6976.818182	41.4	V	-6.4	12.6	54.0
10912.562500	38.4	V	-1.4	15.6	54.0
17985.906250	47.8	V	11.9	6.2	54.0

Figure 11: Radiated Spurious Emission, 2445MHz


Limit and Margin
QP

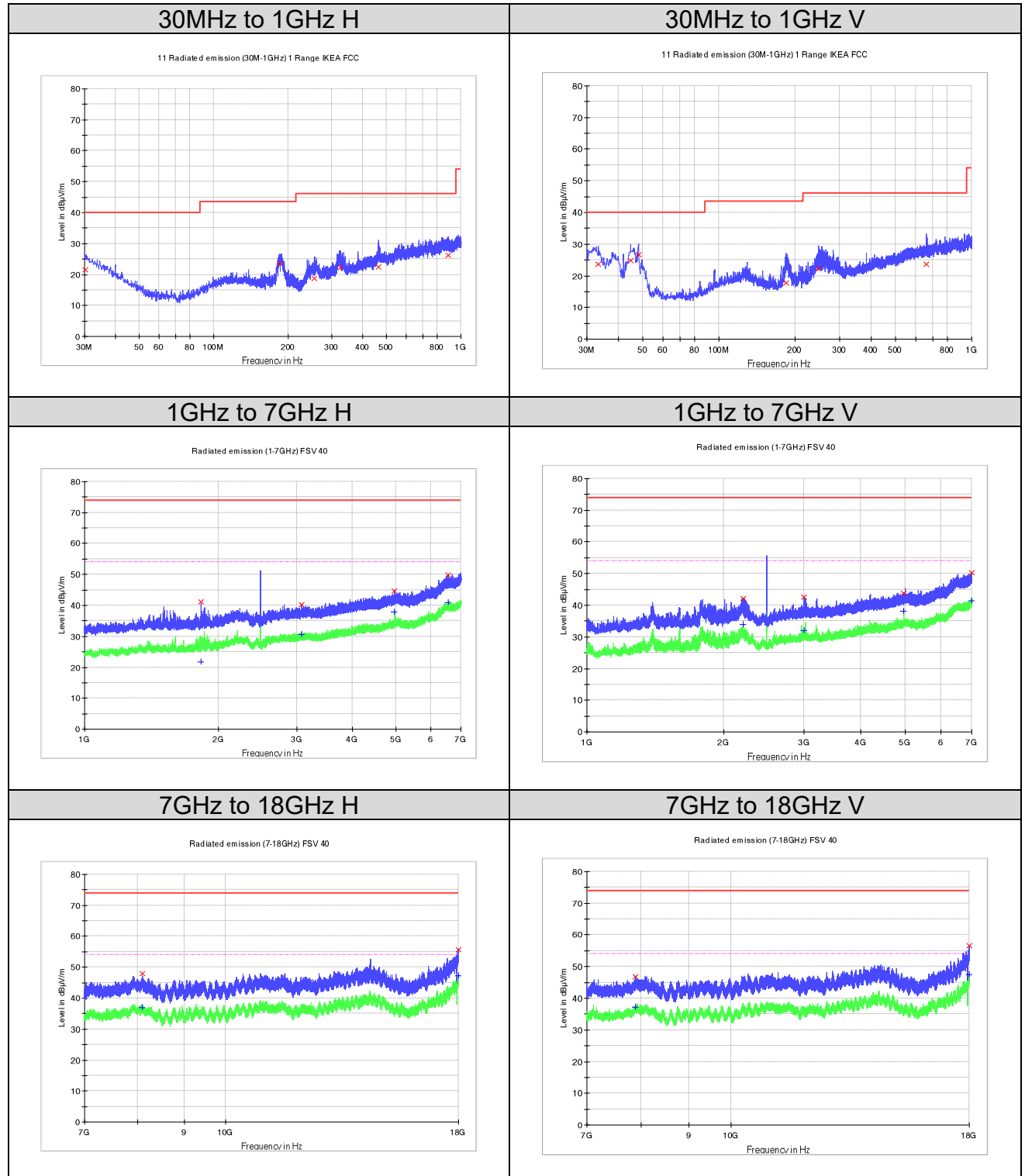
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.061250	20.2	H	24.2	19.8	40.0
185.927500	21.3	H	15.9	22.2	43.5
322.576250	25.7	H	21.2	20.3	46.0
384.050000	25.7	H	22.4	20.4	46.0
665.835000	23.5	H	26.6	22.5	46.0
850.983750	25.9	H	28.9	20.2	46.0
32.182500	24.5	V	24.2	15.5	40.0
45.883750	25.2	V	16.6	14.8	40.0
48.066250	27.5	V	15.6	12.5	40.0
184.836250	17.9	V	15.9	25.6	43.5
250.675000	22.7	V	19.4	23.3	46.0
665.471250	23.8	V	26.6	22.3	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1571.090909	39.0	H	-18.9	35.0	74.0
2194.272727	40.4	H	-15.8	33.6	74.0
4891.272727	44.2	H	-11.1	29.8	74.0
6638.363636	49.5	H	-7.5	24.5	74.0
8082.125000	47.4	H	-3.8	26.7	74.0
17990.031250	54.9	H	11.9	19.1	74.0
1390.545455	42.4	V	-18.6	31.6	74.0
2212.545455	45.8	V	-15.7	28.2	74.0
4889.090909	45.1	V	-11.1	28.9	74.0
6436.545455	49.6	V	-7.7	24.5	74.0
7880.343750	46.9	V	-4.0	27.1	74.0
17984.187500	56.0	V	11.8	18.0	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1571.090909	27.4	H	-18.9	26.6	54.0
2194.272727	30.8	H	-15.8	23.2	54.0
4891.272727	36.5	H	-11.1	17.5	54.0
6638.363636	40.6	H	-7.5	13.4	54.0
8082.125000	38.3	H	-3.8	15.7	54.0
17990.031250	47.2	H	11.9	6.8	54.0
1390.545455	32.6	V	-18.6	21.4	54.0
2212.545455	34.6	V	-15.7	19.4	54.0
4889.090909	39.0	V	-11.1	15.0	54.0
6436.545455	41.5	V	-7.7	12.5	54.0
7880.343750	37.9	V	-4.0	16.1	54.0
17984.187500	47.4	V	11.8	6.6	54.0

Figure 12: Radiated Spurious Emission, 2480MHz


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Limit and Margin
QP

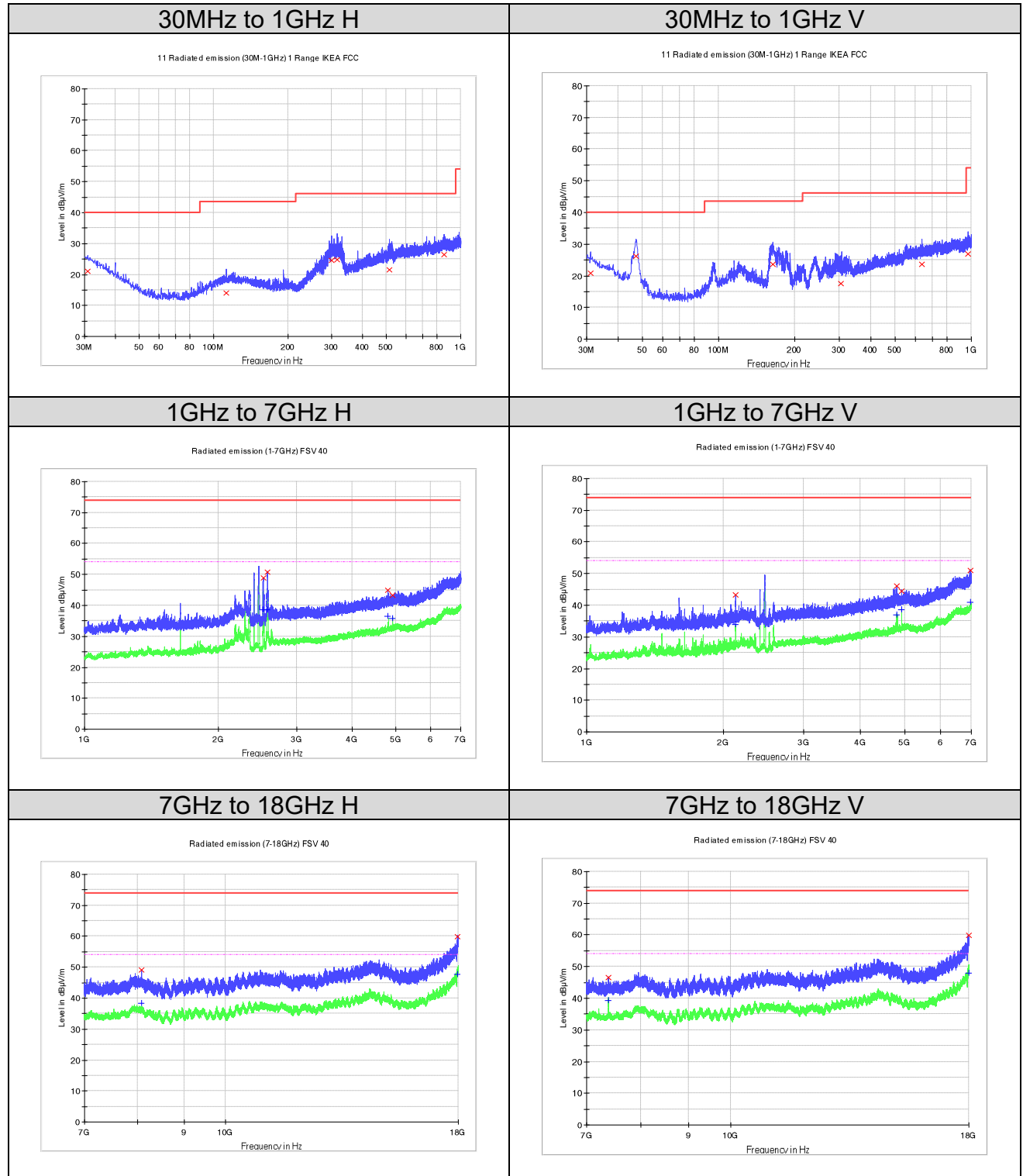
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.242500	21.4	H	25.3	18.6	40.0
184.836250	23.7	H	15.9	19.8	43.5
255.888750	18.6	H	20.4	27.4	46.0
324.758750	22.3	H	21.3	23.7	46.0
463.105000	22.5	H	24.6	23.5	46.0
885.418750	26.2	H	29.3	19.8	46.0
33.273750	23.7	V	23.6	16.3	40.0
44.671250	24.7	V	17.3	15.3	40.0
47.945000	26.7	V	15.7	13.3	40.0
185.078750	17.8	V	15.9	25.7	43.5
248.007500	22.3	V	19.2	23.7	46.0
663.652500	23.7	V	26.6	22.3	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1829.363636	41.2	H	-18.6	32.8	74.0
3073.000000	40.3	H	-14.7	33.7	74.0
4958.909091	44.6	H	-11.0	29.4	74.0
6550.545455	49.8	H	-7.3	24.2	74.0
8095.531250	47.9	H	-3.9	26.1	74.0
17985.218750	55.7	H	11.9	18.3	74.0
2201.363636	42.1	V	-15.7	31.9	74.0
2994.727273	42.6	V	-14.9	31.4	74.0
4961.363636	43.8	V	-11.0	30.2	74.0
6997.818182	50.2	V	-6.2	23.8	74.0
7892.718750	46.7	V	-3.9	27.3	74.0
17985.562500	56.7	V	11.9	17.3	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1829.363636	21.7	H	-18.6	32.4	54.0
3073.000000	30.6	H	-14.7	23.4	54.0
4958.909091	37.9	H	-11.0	16.1	54.0
6550.545455	41.0	H	-7.3	13.0	54.0
8095.531250	36.9	H	-3.9	17.1	54.0
17985.218750	47.3	H	11.9	6.7	54.0
2201.363636	34.0	V	-15.7	20.0	54.0
2994.727273	32.0	V	-14.9	22.0	54.0
4961.363636	38.2	V	-11.0	15.8	54.0
6997.818182	41.3	V	-6.2	12.7	54.0
7892.718750	37.1	V	-3.9	16.9	54.0
17985.562500	47.4	V	11.9	6.6	54.0

Figure 13: Radiated Spurious Emission, 802.11b 2462MHz+Thread 2405MHz


Limit and Margin
QP

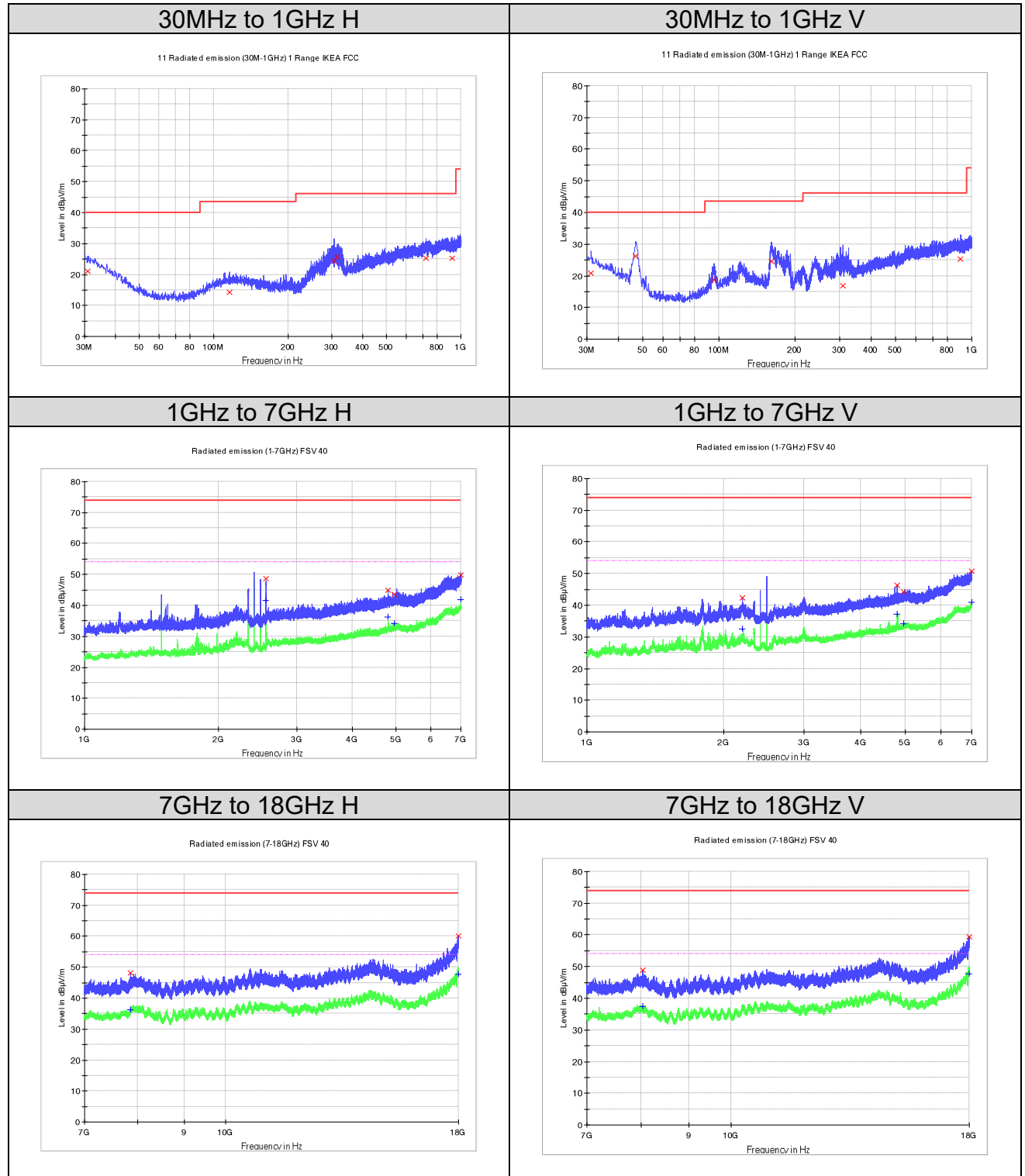
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	20.9	H	24.9	19.1	40.0
112.207500	14.1	H	18.7	29.4	43.5
300.023750	24.5	H	20.8	21.5	46.0
315.301250	24.7	H	20.4	21.3	46.0
515.242500	21.6	H	25.2	24.4	46.0
858.986250	26.5	H	29.0	19.5	46.0
31.091250	20.9	V	24.8	19.1	40.0
47.217500	26.3	V	16.0	13.7	40.0
163.860000	23.6	V	16.7	19.9	43.5
305.722500	17.5	V	20.5	28.5	46.0
638.553750	23.6	V	26.9	22.4	46.0
973.567500	27.0	V	30.1	27.0	54.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2519.636364	48.9	H	-16.0	25.1	74.0
2578.000000	50.8	H	-15.8	23.2	74.0
4809.181818	44.9	H	-11.2	29.1	74.0
4924.272727	43.4	H	-11.1	30.6	74.0
8087.281250	49.2	H	-3.8	24.8	74.0
17981.093750	59.9	H	11.8	14.1	74.0
2125.000000	43.4	V	-16.5	30.6	74.0
4809.727273	46.1	V	-11.2	27.9	74.0
4923.727273	44.5	V	-11.1	29.5	74.0
6971.363636	51.0	V	-6.5	23.0	74.0
7383.281250	46.6	V	-6.0	27.4	74.0
17983.500000	59.9	V	11.8	14.2	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2519.636364	38.7	H	-16.0	15.3	54.0
2578.000000	38.6	H	-15.8	15.4	54.0
4809.181818	36.4	H	-11.2	17.6	54.0
4924.272727	35.8	H	-11.1	18.2	54.0
8087.281250	38.3	H	-3.8	15.7	54.0
17981.093750	47.7	H	11.8	6.3	54.0
2125.000000	33.9	V	-16.5	20.1	54.0
4809.727273	37.0	V	-11.2	17.0	54.0
4923.727273	38.7	V	-11.1	15.3	54.0
6971.363636	40.9	V	-6.5	13.1	54.0
7383.281250	39.4	V	-6.0	14.6	54.0
17983.500000	47.8	V	11.8	6.2	54.0

Figure 14: Radiated Spurious Emission, BLE 2480MHz+Thread 2405MHz


Limit and Margin
QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.848750	21.0	H	25.0	19.0	40.0
116.087500	14.2	H	18.8	29.3	43.5
307.783750	24.3	H	20.3	21.8	46.0
317.120000	25.6	H	20.6	20.4	46.0
725.005000	25.2	H	28.3	20.8	46.0
920.338750	25.2	H	28.5	20.8	46.0
31.212500	20.7	V	24.8	19.3	40.0
46.853750	26.2	V	16.2	13.8	40.0
95.475000	18.7	V	16.5	24.8	43.5
161.556250	24.7	V	16.9	18.9	43.5
308.753750	16.7	V	20.3	29.3	46.0
905.061250	25.2	V	28.5	20.8	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2555.363636	48.6	H	-15.9	25.4	74.0
4810.235100	44.9	H	-11.2	29.1	74.0
4956.181818	43.5	H	-11.0	30.5	74.0
6990.181818	49.8	H	-6.3	24.2	74.0
7862.812500	48.2	H	-4.2	25.8	74.0
17985.562500	60.0	H	11.9	14.0	74.0
2197.000000	42.3	V	-15.7	31.7	74.0
4811.090909	46.3	V	-11.2	27.7	74.0
4956.000000	44.2	V	-11.0	29.8	74.0
6988.000000	50.8	V	-6.3	23.2	74.0
8039.843750	48.8	V	-3.5	25.2	74.0
17989.687500	59.3	V	11.9	14.7	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2555.363636	41.5	H	-15.9	12.5	54.0
4810.235100	36.4	H	-11.2	17.6	54.0
4956.181818	34.1	H	-11.0	20.0	54.0
6990.181818	42.0	H	-6.3	12.1	54.0
7862.812500	36.3	H	-4.2	17.7	54.0
17985.562500	47.6	H	11.9	6.4	54.0
2197.000000	32.6	V	-15.7	21.4	54.0
4811.090909	37.1	V	-11.2	16.9	54.0
4956.000000	34.2	V	-11.0	19.8	54.0
6988.000000	41.0	V	-6.3	13.0	54.0
8039.843750	37.4	V	-3.5	16.6	54.0
17989.687500	47.8	V	11.9	6.2	54.0

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