

TEST REPORT

Test Report No. : UL-RPT-RP15928867-416A

Applicant* : Covidien LLC

Model No.* : M2-JODY-W377

FCC ID* : P7G-173269

Technology* : WLAN 802.11 (b/g/n/ax)

Test Standard(s) : FCC Parts 15.209(a) & 15.247(d)

Test Laboratory : UL International (UK) Ltd, Basingstoke, Hampshire, RG24 8AH, United Kingdom

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2. The results in this report apply only to the sample(s) tested.
3. The sample tested is in compliance with the above standard(s).
4. The test results in this report are traceable to the national or international standards.
5. All information marked with (*) was provided by the Customer, Applicant or Authorised representative
6. Version 3.0 supersedes all previous versions.

Date of Issue: 04 February 2026

Checked by:



Ben Mercer
Lead Test Engineer, Radio Laboratory

Company Signatory:



Sarah Williams
Staff Engineer, Radio Laboratory



Applicant / Manufacturer Information

Company Name*:	Covidien LLC
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Report Revision History

Version Number	Issue Date	Revision Details	Revised By
1.0	28/10/2025	Initial Version	Ben Mercer
2.0	06/11/2025	Applicant / manufacturer updated	Ben Mercer
3.0	04/02/2026	Implemented TCB feedback	Ben Mercer

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1 Attestation of Test Results

1.1 Description of EUT

The equipment under test (EUT) was a module with 2.4 GHz and 5 GHz WLAN transceivers.*

1.2 General Information

Specification Reference:	47CFR15.247
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Section 15.247
Specification Reference:	47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Section 15.209
Site Registration:	685609
FCC Lab. Designation No.:	UK2011
Location of Testing:	Units 3 & 4 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
Test Dates:	06 October 2025 to 15 October 2025

1.3 Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 15.35(c)	Transmitter Duty Cycle	Note 1
Part 15.247(d) & 15.209(a)	Transmitter Radiated Emissions	
Part 15.247(d) & 15.209(a)	Transmitter Band Edge Radiated Emissions	
Key to Results  = Complied  = Did not comply		

Note(s):

1. The measurement was performed to assist in the calculation of the level of maximum emissions. For some modes, the EUT cannot transmit continuously and sweep triggering/signal gating cannot be implemented.

1.4 Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

2 Summary of Testing

2.1 Facilities and Accreditation

The test site and measurement facilities used to collect data are located at Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom. The following table identifies which facilities were utilised for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

Site 1	-
Site 17	-
Site 32	-
Site 33	X

UL International (UK) Ltd is accredited by UKAS. The tests reported herein have been performed in accordance with its terms of accreditation.

2.2 Methods and Procedures

Reference:	ANSI C63.10-2020 + Cor.1-2023
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019
Title:	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules
Reference:	KDB 662911 D01 Multiple Transmitter Output v02r01 October 31, 2013
Title:	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

2.3 Calibration and Uncertainty

Measuring Instrument Calibration

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

Measurement Uncertainty & Decision Rule

Overview

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

Decision Rule

Measurement system instrumentation shall be used with an accuracy specification meeting the accuracy specification limits according to IEC/IECEE OD-5014.

As applicable, unless specified otherwise in this quotation, the compliance "Decision Rule" is based on Simple Acceptance. If the measured value is on the limit, the result is defined as a pass. For further information regarding risk assessment refer to ILAC G8:09/2019.

Measurement Uncertainty

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Duty Cycle	2.4 GHz to 2.4835 GHz	95%	±1.14 %
Radiated Spurious Emissions	9 kHz to 30 MHz	95%	±5.44 dB
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±2.98 dB
Radiated Spurious Emissions	1 GHz to 25 GHz	95%	±3.64 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

2.4 Test and Measurement Equipment

Test Equipment Used for Transmitter Duty Cycle

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
K226203	3m RSE Chamber	Albatross Projects	N/A	N/A	29 Apr 2026	12
M226556	Thermohygrometer	Testo	608-H1	83800306	20 Dec 2025	12
M1995	Test Receiver	Rohde & Schwarz	ESU40	100428	19 Mar 2026	12
A3142	Pre-Amplifier	Schwarzbeck	BBV 9718 B	00020	25 Apr 2026	12
A230451	Attenuator	Atlantic Microwave	ATT10KXP-483034-N4N5	-	06 May 2026	12
A231044	Horn Antenna	Schwarzbeck	BBHA 9120 B	00835	28 Apr 2026	12

Test Equipment Used for Transmitter Radiated Emissions Tests

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M226556	Thermohygrometer	Testo	608-H1	83800306	20 Dec 2025	12
K226203	3m RSE Chamber	Albatross Projects	N/A	N/A	29 Apr 2026	12
M1995	Test Receiver	Rohde & Schwarz	ESU40	100428	19 Mar 2026	12
A231567	Pre-Amplifier	RF Bay Inc.	LNA-1070	2	28 Apr 2026	12
A3142	Pre-Amplifier	Schwarzbeck	BBV 9718 B	00020	25 Apr 2026	12
A230567	Pre-Amplifier	Atlantic Microwave	A-HPAKX-380143-K5K5	VJ3601001	14 Apr 2026	12
A3165	Mag Loop Antenna	ETS-Lindgren	6502	00224383	25 Mar 2026	12
A225134	Antenna	Teseq, Inc	CBL6111D	62222	13 Mar 2026	12
A231044	Antenna	Schwarzbeck	BBHA 9120 B	00835	28 Apr 2026	12
A231045	Antenna	Schwarzbeck	HWRD 750	00064	28 Apr 2026	12
A231050	Antenna	Schwarzbeck	BBHA 9170	01280	14 Apr 2026	12
A3115	Attenuator	AtlanTecRF	AN18-06	219706#5	13 Mar 2026	12
A230451	Attenuator	Atlantic Microwave	ATT10KXP-483034-N4N5	Not stated	06 May 2026	12
A227133	High Pass Filter	Micro-Tronics	HPM21019	002	07 Apr 2026	12

Test and Measurement Equipment (continued)**Test Equipment Used for Transmitter Band Edge Radiated Emissions**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
K226203	3m RSE Chamber	Albatross Projects	N/A	N/A	29 Apr 2026	12
M226556	Thermohygrometer	Testo	608-H1	83800306	20 Dec 2025	12
M1995	Test Receiver	Rohde & Schwarz	ESU40	100428	19 Mar 2026	12
A3142	Pre-Amplifier	Schwarzbeck	BBV 9718 B	00020	25 Apr 2026	12
A230451	Attenuator	Atlantic Microwave	ATT10KXP-483034-N4N5	-	06 May 2026	12
A231044	Horn Antenna	Schwarzbeck	BBHA 9120 B	00835	28 Apr 2026	12

3 Equipment Under Test (EUT)

3.1 Identification of Equipment Under Test (EUT)

Applicant / Manufacturer*:	Covidien LLC
Model Name or Number*:	M2-JODY-W377
Test Sample Serial Number*:	Not marked or stated (UL ID 8817497) (<i>Radiated sample #1</i>)
Hardware Version*:	0.5
Software Version*:	2.0.0.86-17.80.200.p207 & 17.68.1.p88-17.26.1.p88-MXM5X17287_V0V1
FCC ID*:	P7G-173269
Date of Receipt:	15 August 2025

3.2 Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.3 Additional Information Related to Testing

Technology Tested:	WLAN (IEEE 802.11b,g,n,ax) / Digital Transmission System		
Type of Unit:	Transceiver		
Modulation Type:	BPSK		
Data Rates:	802.11b	1 Mbps (SISO)	
	802.11g	6 Mbps (SISO)	
	802.11n HT20	MCS0 (SISO), MCS8 (MIMO)	
	802.11n HT40	MCS0 (SISO), MCS8 (MIMO)	
	802.11ax HE20	MCS0 (SISO & MIMO)	
	802.11ax HE40	MCS0 (SISO & MIMO)	
Power Supply Requirement(s)*:	Nominal	12.0 VDC	
Channel Spacing:	20 MHz		
Transmit Frequency Range:	2412 MHz to 2462 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2412
	-	2	2417
	-	3	2422
	-	4	2427
	Middle	6	2437
	-	8	2447
	-	9	2452
	-	10	2457
	Top	11	2462
Channel Spacing:	40 MHz		
Transmit Frequency Range:	2422 MHz to 2452 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	3	2422
	Top	9	2452

3.4 Description of Available Antennas*

The radio utilizes 2 identical antennas, with the following maximum gain:

Manufacturer	Model	Type	Frequency Range (MHz)	Antenna Gain (dBi)
TE Connectivity	2118909-2	PCB	2400 to 2500	4.3

3.5 Description of Test Setup**Support Equipment****Customer Supplied*:**

Description	Brand Name	Model Name or Number	Serial Number
Test Laptop	Lenovo	V15 G4 1RU	PF5L41HE
Carrier Board	Covidien LLC	Not marked or stated	Not marked or stated
Linear Power Supply	TTI	CPX200DP	489228
Ethernet Cable	Not marked or stated	Not marked or stated	Not marked or stated
Power Cable	Not marked or stated	Not marked or stated	Not marked or stated

Operating Modes

The EUT was tested in the following operating mode(s):

- Continuously transmitting with a modulated carrier at maximum power on the relevant channels as required using the supported data rates/modulation types.

Configuration and Peripherals

The EUT was tested in the following configuration(s):

- The EUT was connected to a carrier board and controlled in test mode using a software application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission and to select the test channels as required. The customer supplied a document containing the setup instructions 'Aide Compliance - Instructions for WiFi Test Script (using RF test mode).pdf'. The laptop was connected to the carrier board via an ethernet cable.
- Transmitter spurious emissions were performed with the EUT transmitting with a data rate of 802.11b / 1 Mbps / SISO. This was found to be have the highest output power and therefore deemed to be the worst case.
- The carrier board was powered from a 120 VAC single phase mains supply via the customer supplied TTI AC/DC power supply. There were no ports on the EUT to terminate. Unused ports on the carrier board were not terminated.

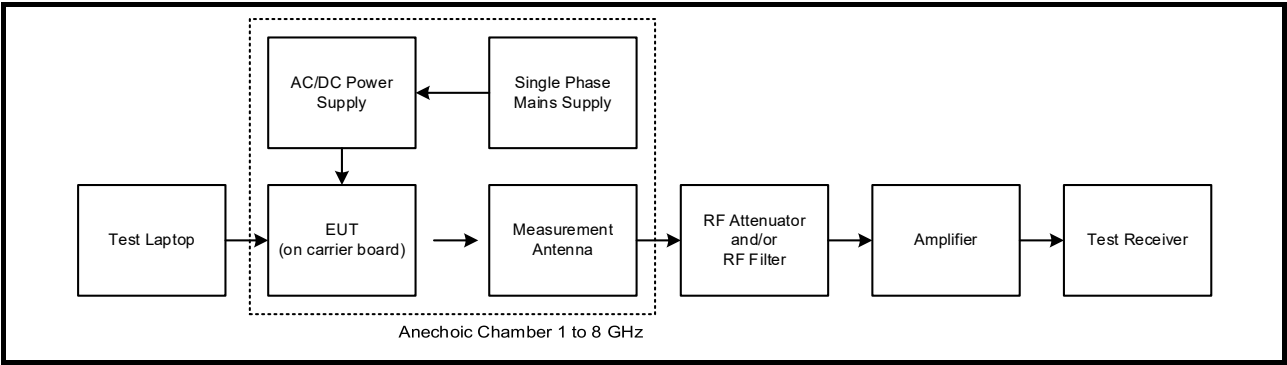
Power Settings

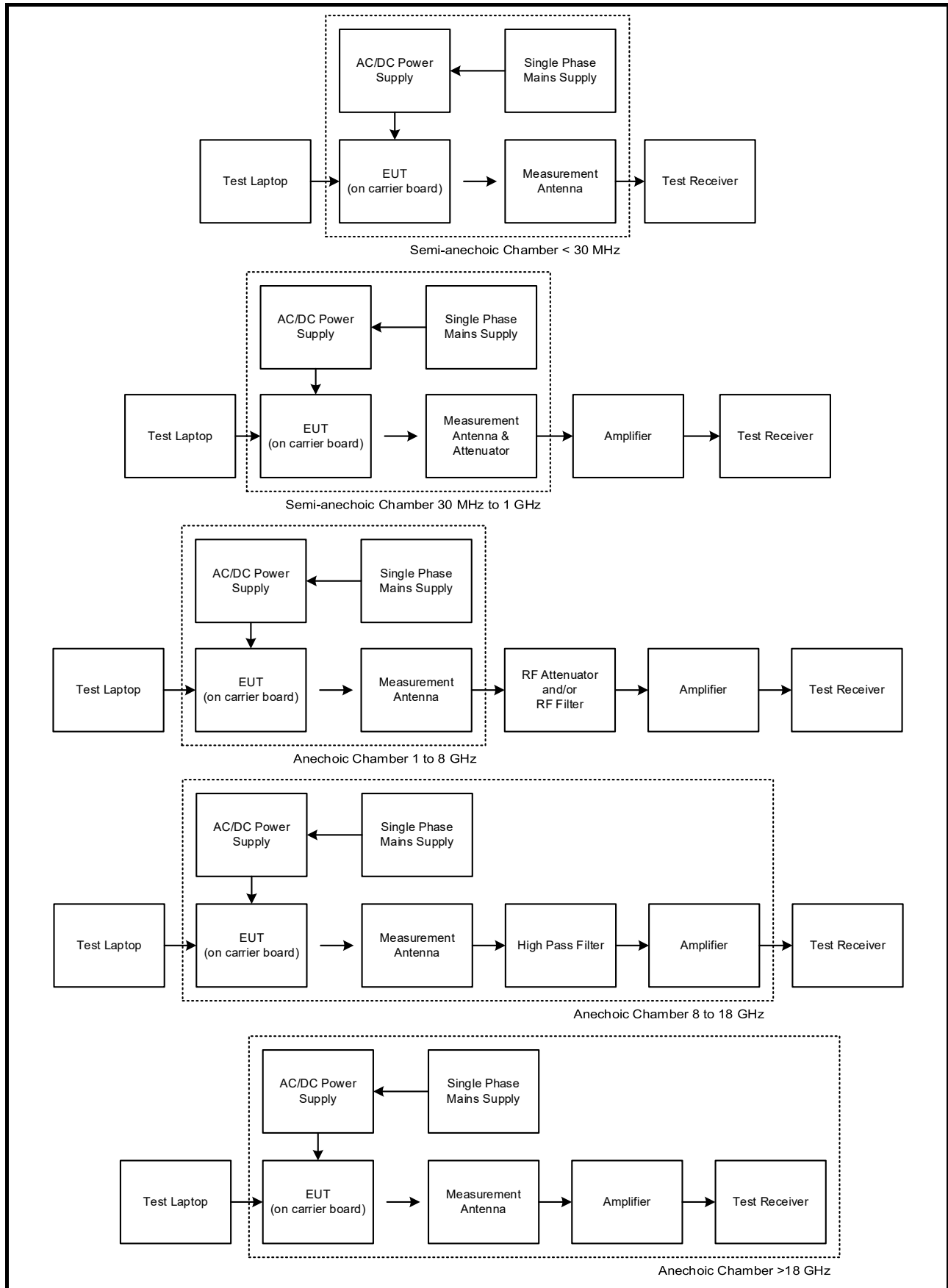
802.11 Mode	Channel										
	1	2	3	4	5	6	7	8	9	10	11
b	19	20	21	-	-	21	-	-	-	<i>20.5</i>	19
g	14	15	16	17	-	-	-	-	17	15	13
HT20 SISO	14	15	16	17	-	-	-	17	16	14	13
HT20 MIMO	13	14	15	-	-	-	-	-	15	13	12
HT40 SISO	-	-	13	-	-	-	-	-	<i>9.5</i>	-	-
HT40 MIMO	-	-	12	-	-	-	-	-	9	-	-
HE20 SISO	13	15	-	16	17	-	-	17	16	14	12
HE20 MIMO	12	13	14	15	16	-	-	16	14	13	11
HE40 SISO	-	-	13	-	-	-	-	-	<i>10.5</i>	-	-
HE40 MIMO	-	-	12	-	-	-	-	-	<i>9.5</i>	-	-

Note: *Italic* values indicate a reduced value from the original module certification. '-' indicates that this combination of channel and mode was not tested.

Test Setup Diagrams

Test Setup for Transmitter Duty Cycle & Band Edge Radiated Emissions



Test Setup Diagrams (continued)**Test Setup for Transmitter Radiated Emissions**

4 Radiated Test Results

4.1 Transmitter Duty Cycle

Test Summary:

Test Engineer:	John Ferdinand	Test Date:	07 October 2025
Test Sample Serial Number:	UL ID 8817497		

FCC Reference:	Part 15.35(c)
Test Method Used:	FCC KDB 558074 Section 6 referencing ANSI C63.10 Section 11.6

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	48

Note(s):

1. In order to assist with the determination of the average level of fundamental and spurious emissions field strength, measurements were made of duty cycle to determine the transmission duration and the silent period time of the transmitter. The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by using the following calculation:

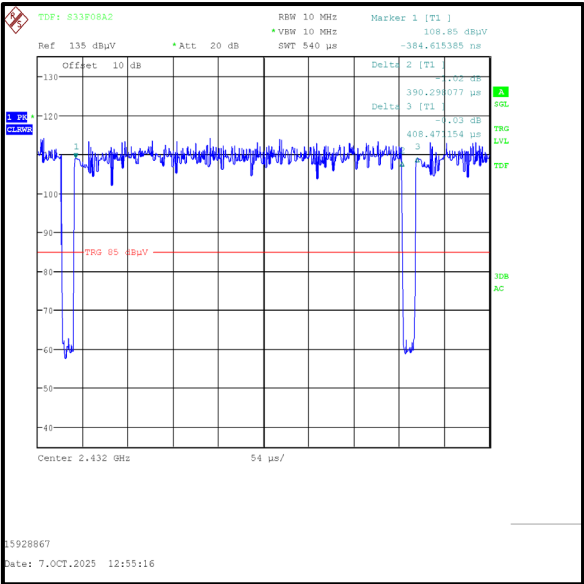
$$10 \log (1 / (\text{On Time} / [\text{Period or } 100 \text{ ms whichever is the lesser}])).$$

2. For all other modes, the duty cycle was measured and found to be greater than 98%. Plots for these measurements are archived on the company server and available for inspection upon request.

Transmitter Duty Cycle (continued)

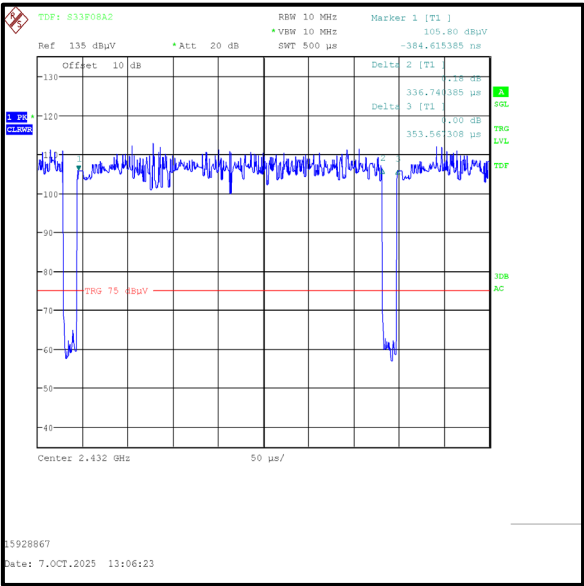
Results: 802.11n / HT40 / SISO / MCS0

Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
0.390	0.408	0.2



Results: 802.11ax / HE40 / SISO / MCS0

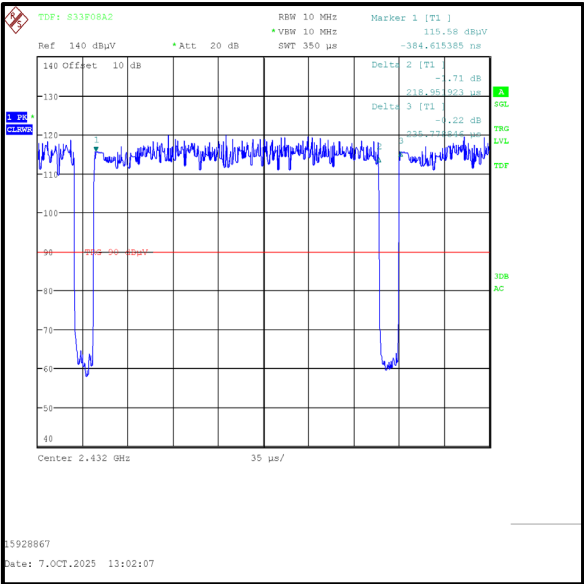
Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
0.337	0.354	0.2



Transmitter Duty Cycle (continued)

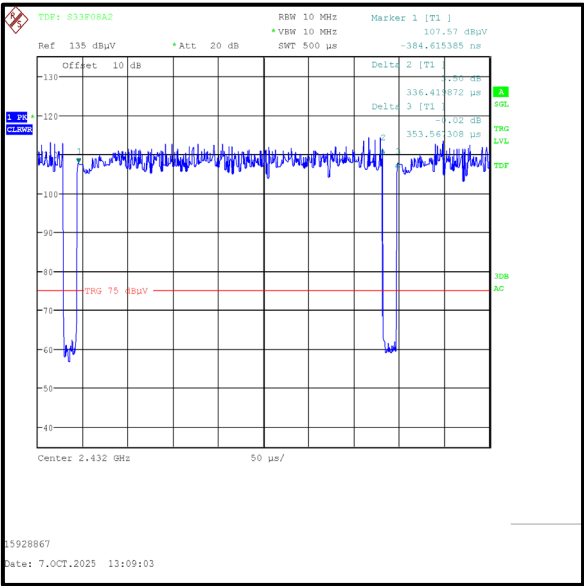
Results: 802.11n / HT40 / MIMO / MCS8

Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
0.219	0.236	0.3



Results: 802.11ax / HE40 / MIMO / MCS0

Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
0.336	0.354	0.2



4.2 Transmitter Radiated Emissions <1 GHz

Test Summary:

Test Engineers:	John Ferdinand & Nick Steele	Test Date:	15 October 2025
Test Sample Serial Number:	UL ID 8817497		

FCC Reference:	Parts 15.247(d) & 15.209(a)
Test Method Used:	ANSI C63.10 Sections 6.3, 6.4 and 6.5
Frequency Range	9 kHz to 1000 MHz

Environmental Conditions:

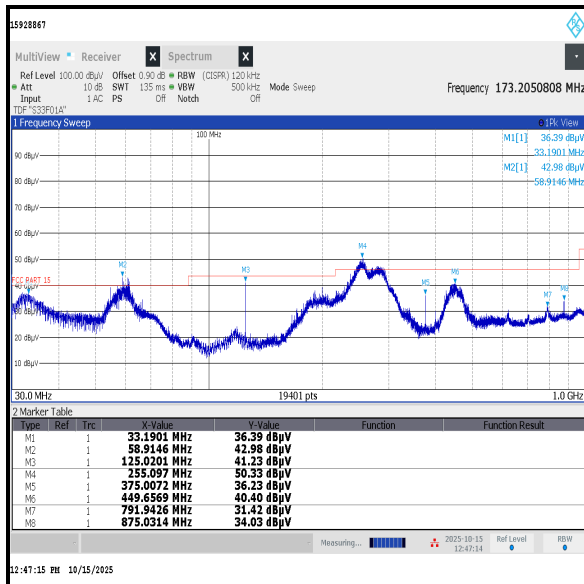
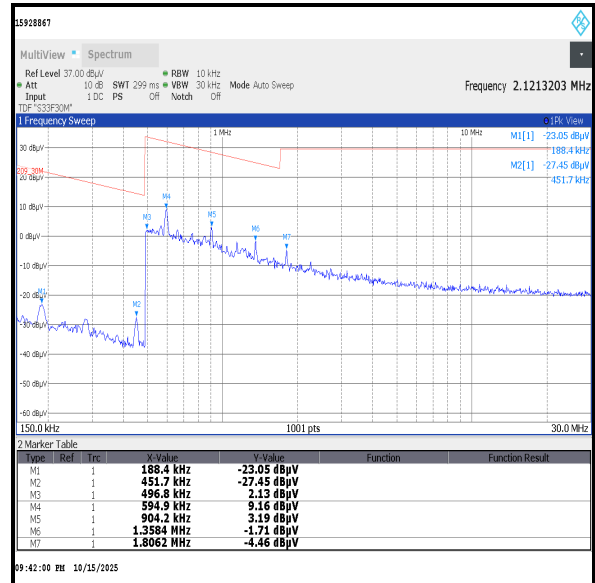
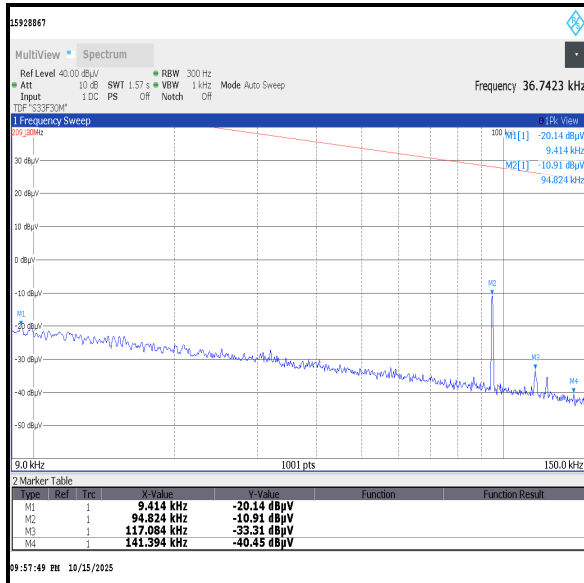
Temperature (°C):	22
Relative Humidity (%):	48

Note(s):

1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the middle channel only.
3. All other emissions shown on the pre-scan plots were investigated and found to be ambient, >20 dB below the applicable limit or below the measurement system noise floor and therefore not recorded.
4. Measurements below 30 MHz were performed in a semi-anechoic chamber (Asset Number K226203) at 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. The measurement was extrapolated in accordance with ANSI C63.10 clause 6.4.3 using the method described in clause 6.4.4.2. ANSI C63.10 clause 5.2 states an alternative test site that can demonstrate equivalence to an open area test site may be used for measurements below 30 MHz. Therefore, measurements were performed in a semi-anechoic chamber. The correlation data between semi-anechoic chamber and an open field test site is available upon request.
5. The measured values at 3 metres were extrapolated to the required measurement distances of 300 metres and 30 metres and compared to the specified limits at those distances:
 - a. 9 kHz to 490 kHz: measured value extrapolated from 3 metres to 300 metres by subtracting 80 dB at 40 dB / decade
 - b. 490 kHz to 30 MHz: measured value extrapolated from 3 metres to 30 metres by subtracting 40 dB at 40 dB / decade
6. Measurements from 30 MHz to 1 GHz were performed in a semi-anechoic chamber (Asset Number K226203) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
7. Pre-scans were performed, and markers placed on the highest measured levels. The test receiver was configured as follows: During 9 kHz to 150 kHz measurements, the resolution bandwidth was set to 300 Hz and video bandwidth 1 kHz. A peak detector was used and trace mode was Max Hold. For 150 kHz to 30 MHz, the resolution bandwidth was set to 10 kHz and video bandwidth 30 kHz, trace mode was Max Hold. During 30 MHz to 1 GHz measurements, the resolution bandwidth was set to 120 kHz and video bandwidth 500 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. Final measurements were performed using a CISPR Quasi-Peak detector and measurement time set to 15 seconds.

Transmitter Radiated Emissions (continued)**Results: Middle Channel / 802.11b / 20 MHz / SISO / 1 Mbps / Ant 0**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
124.997	Horizontal	40.1	44.0	3.9	Complied
273.388	Horizontal	43.0	46.0	3.0	Complied
408.154	Vertical	36.9	46.0	9.1	Complied



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

4.3 Transmitter Radiated Emissions >1 GHz

Test Summary:

Test Engineers:	John Ferdinand & Nick Steele	Test Date:	15 October 2025
Test Sample Serial Number:	UL ID 8817497		

FCC Reference:	Parts 15.247(d) & 15.209(a)
Test Method Used:	FCC KDB 558074 Sections 8.5 & 8.6 referencing ANSI C63.10 Sections 6.3, 6.6, 11.11, 11.12.2.4 & 11.12.2.5.2
Frequency Range	1 GHz to 25 GHz

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	48

Note(s):

1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. All other emissions shown on the pre-scan plot were investigated and found to be ambient, >20 dB below the appropriate limit or below the measurement system noise floor.
3. The emission shown approximately at 2437 MHz on the 1 GHz to 3 GHz plot is the EUT fundamental.
4. In accordance with ANSI C63.10 Section 6.6.4.3 (Note 1), if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
5. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K226203) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
6. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto.
7. The reference level for emissions in non-restricted bands was established following KDB 558074 Section 11.2 procedure.

Transmitter Radiated Emissions (continued)**Results: 802.11b / 20 MHz / SISO / 1 Mbps / Ant 0 / Bottom Channel**

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
4824.050	Vertical	46.1	54.0	7.9	Complied

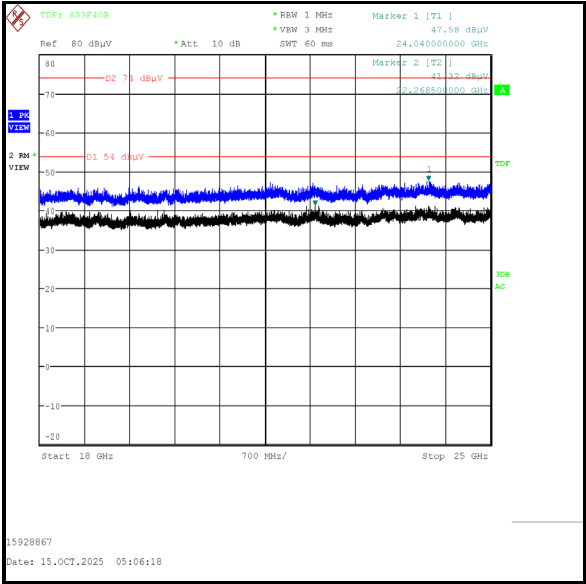
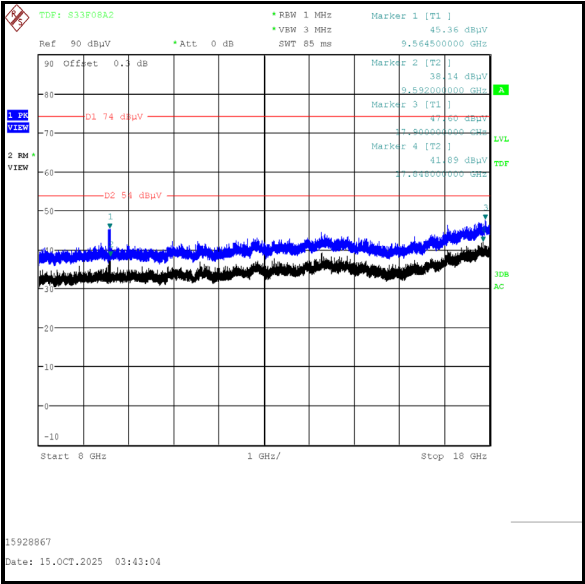
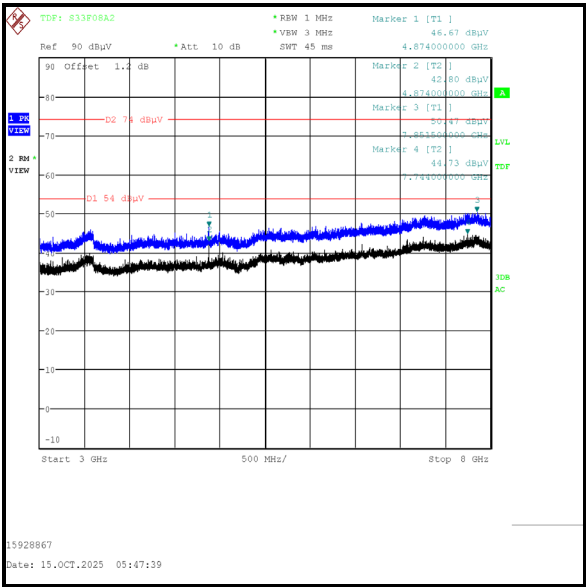
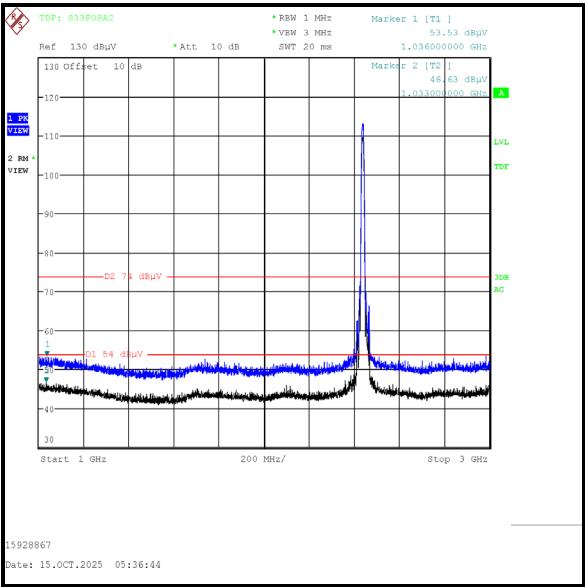
Results: 802.11b / 20 MHz / SISO / 1 Mbps / Ant 0 / Middle Channel

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
4874.071	Vertical	48.0	54.0	6.0	Complied

Results: 802.11b / 20 MHz / SISO / 1 Mbps / Ant 0 / Top Channel

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
4923.850	Vertical	47.6	54.0	6.4	Complied

Transmitter Radiated Emissions (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

4.4 Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineers:	John Ferdinand & Nick Steele	Test Dates:	06 October 2025 to 08 October 2025
Test Sample Serial Number:	UL ID 8817497		

FCC Reference:	Parts 15.247(d) & 15.209(a)
Test Method Used:	KDB 558074 Section 8.7 referencing ANSI C63.10 Sections 6.10, 11.11 & 11.12

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	48

Note(s):

1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. The maximum conducted (average) output power was previously measured. In accordance with ANSI C63.10 Section 11.11.1(b), the lower band edge measurement should be performed with a peak detector and the -30 dBc limit applied.
3. As the lower band edge is adjacent to a non-restricted band, only peak measurements are required. In accordance with ANSI C63.10 Section 11.11.1, the test method in Section 11.3 was followed: the test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The test receiver was left to sweep for a sufficient length of time in order to maximise the carrier level and out-of-band emissions. A marker and corresponding reference level line were placed on the peak of the carrier. As the maximum conducted (average) output power was measured using an RMS detector in accordance with ANSI C63.10 Section 11.9.2.2.2 or 11.9.2.2.4 an out-of-band limit line was placed 30 dB (ANSI C63.10 Section 11.11.1(b)) below the peak level. A marker was placed on the band edge spot frequencies and a second marker placed on the highest emission level in the adjacent non-restricted band of operation (where a higher level emission was present). Marker frequencies and levels were recorded.
4. As the upper band edge is adjacent to a restricted band both peak and average measurements were recorded by placing a marker at the edge of the band. For peak measurements the test receiver resolution bandwidth was set to 1 MHz and the video bandwidth 3 MHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. For average measurements the test receiver resolution bandwidth was set to 1 MHz and the video bandwidth 3 MHz. An RMS detector was used, sweep time was set to auto and trace mode was trace averaging over 300 sweeps. A marker was placed on the band edge spot frequencies and a second marker placed on the highest emission level in the adjacent restricted band of operation (where a higher level emission was present). Marker frequencies and levels were recorded.
5. There is a restricted band 10 MHz below the lower band edge. The test receiver was set up as follows: the RBW set to 1 MHz, the VBW set to 3 MHz, with the sweep time set to auto couple. Peak and average measurements were performed with their respective detectors. Markers were placed on the highest point on each trace.

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11b / 20MHz / SISO / 1 Mbps / Ant 0****Results: Lower Band Edge / Channel 1**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2397.035	Vertical	62.0	78.0	16.0	Complied
2400	Vertical	49.0	78.0	29.0	Complied

Results: Upper Band Edge / Peak / Channel 11

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	57.4	74.0	16.6	Complied
2488.324	Vertical	59.5	74.0	14.5	Complied

Results: Upper Band Edge / Average / Channel 11

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	48.5	54.0	5.5	Complied
2488.548	Vertical	51.2	54.0	2.8	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 1

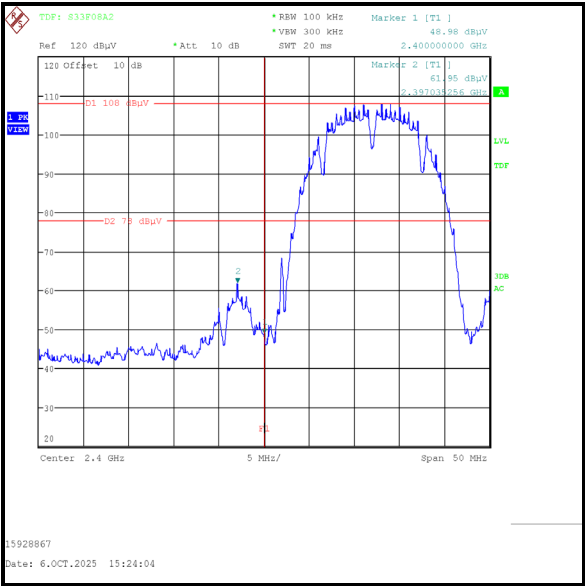
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2388.846	Vertical	56.5	74.0	17.5	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 1

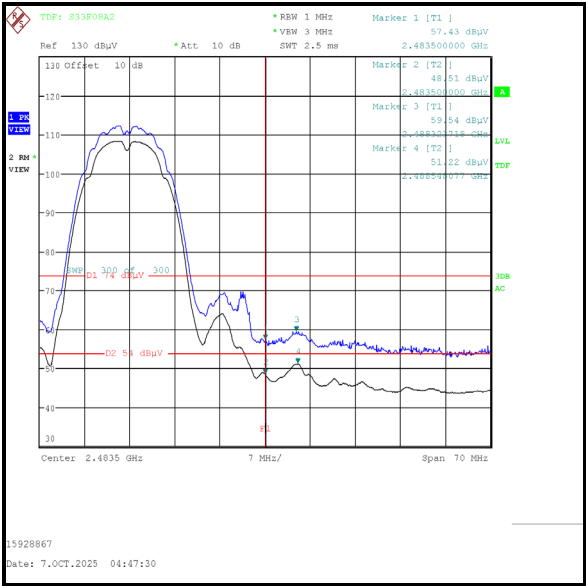
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2388.974	Vertical	48.5	54.0	5.5	Complied

Transmitter Band Edge Radiated Emissions (continued)

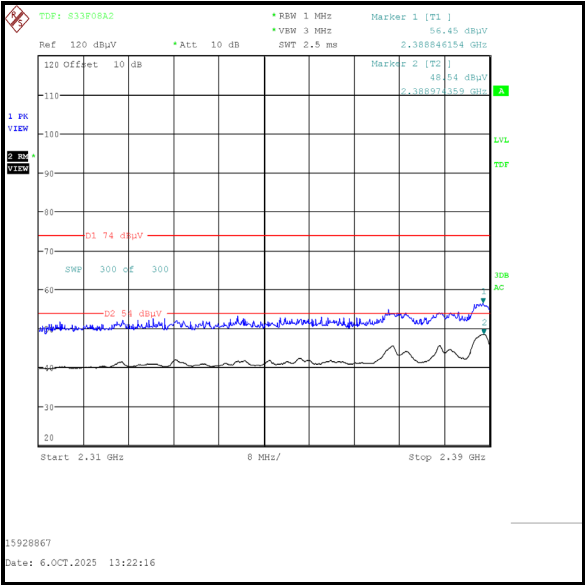
Results: 802.11b / 20MHz / SISO / 1 Mbps / Ant 0



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11b / 20MHz / SISO / 1 Mbps / Ant 0****Results: Lower Band Edge / Channel 2**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2400	Vertical	58.4	79.1	20.7	Complied

Results: Upper Band Edge / Peak / Channel 10

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	61.0	74.0	13.0	Complied

Results: Upper Band Edge / Average / Channel 10

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	51.4	54.0	2.6	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 2

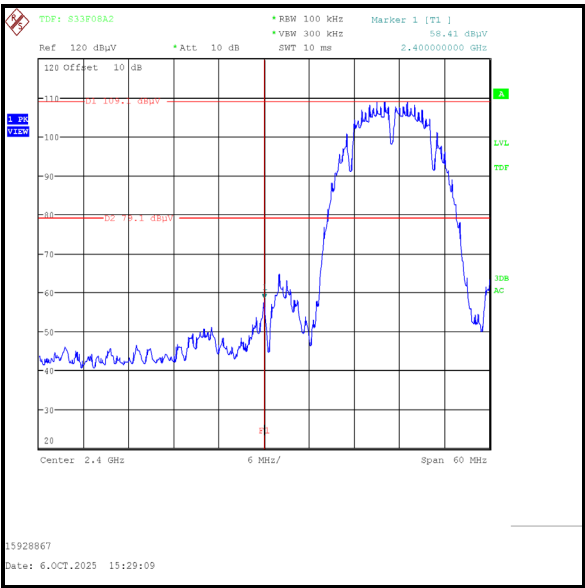
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2389.615	Vertical	56.6	74.0	17.4	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 2

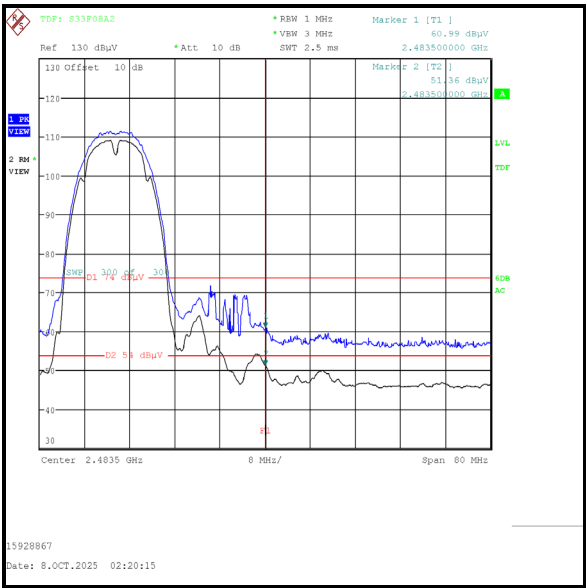
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2390	Vertical	47.8	54.0	6.2	Complied

Transmitter Band Edge Radiated Emissions (continued)

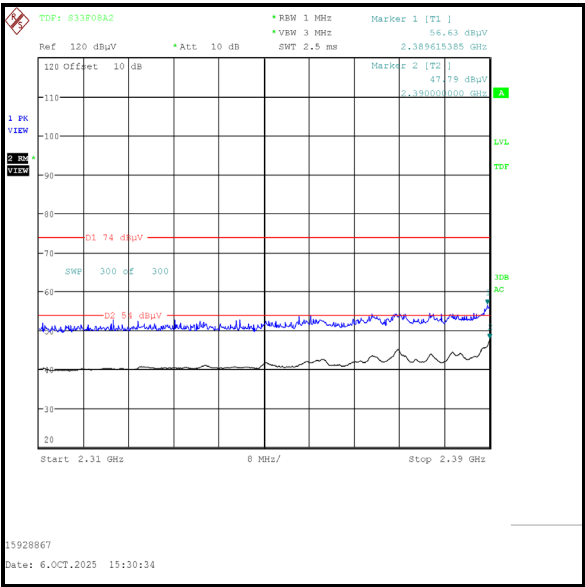
Results: 802.11b / 20MHz / SISO / 1 Mbps / Ant 0



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11b / 20MHz / SISO / 1 Mbps / Ant 0****Results: Lower Band Edge / Channel 3**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2397.532	Vertical	50.4	79.6	29.2	Complied
2400	Vertical	45.9	79.6	33.7	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 3

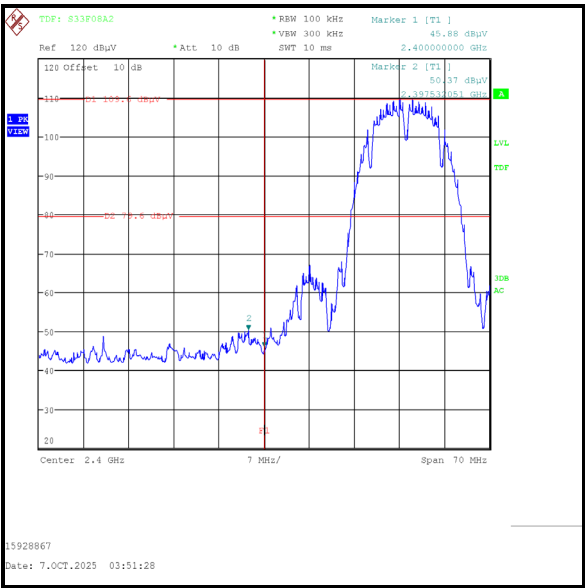
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2375.256	Vertical	55.1	74.0	18.9	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 3

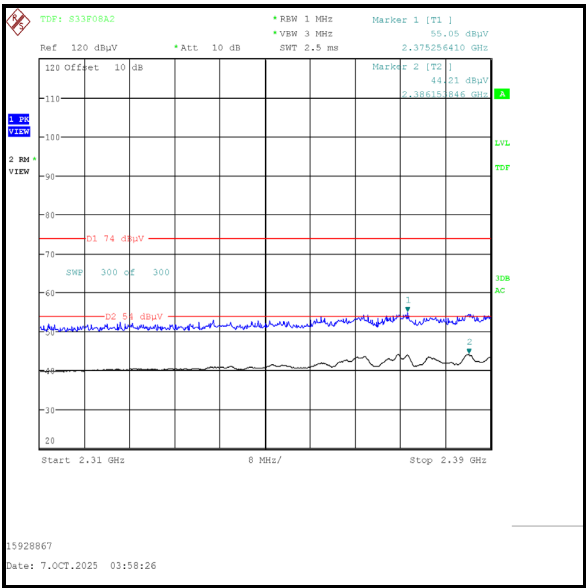
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2386.154	Vertical	44.2	54.0	9.8	Complied

Transmitter Band Edge Radiated Emissions (continued)

Results: 802.11b / 20MHz / SISO / 1 Mbps / Ant 0



Lower Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0****Results: Lower Band Edge / Channel 1**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2399.439	Vertical	60.0	69.2	9.2	Complied
2400	Vertical	56.7	69.2	12.5	Complied

Results: Upper Band Edge / Peak / Channel 11

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	66.8	74.0	7.2	Complied
2483.724	Vertical	67.1	74.0	6.9	Complied

Results: Upper Band Edge / Average / Channel 11

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	50.8	54.0	3.2	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 1

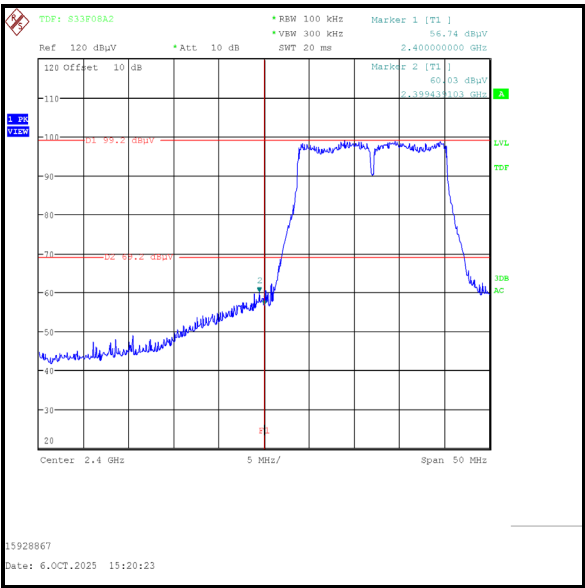
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2389.872	Vertical	60.0	74.0	14.0	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 1

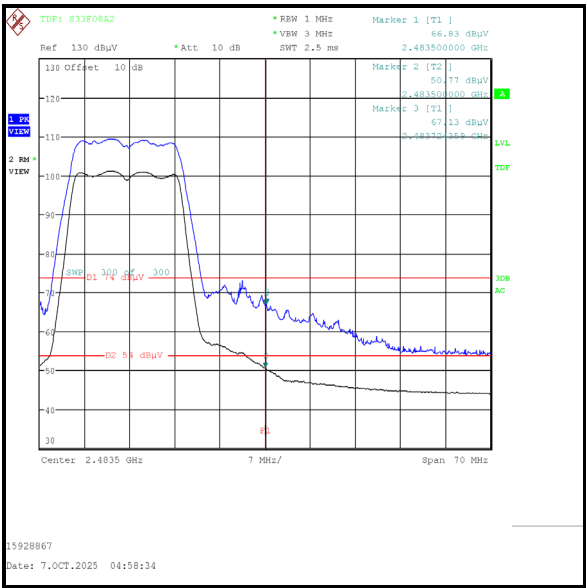
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2389.872	Vertical	47.1	54.0	6.9	Complied

Transmitter Band Edge Radiated Emissions (continued)

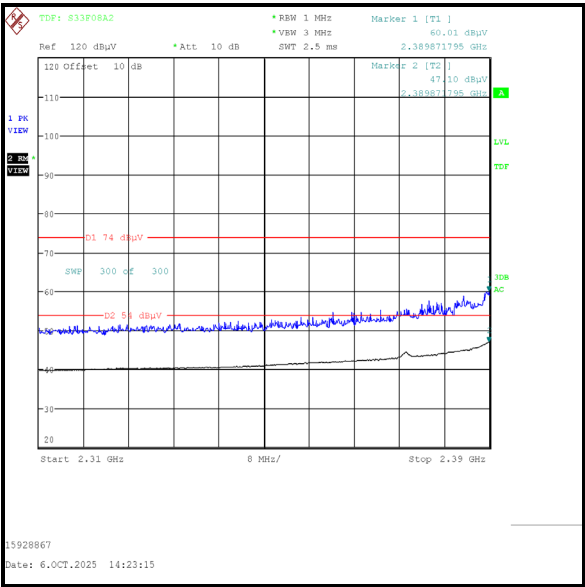
Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0****Results: Lower Band Edge / Channel 2**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2399.808	Vertical	60.8	70.3	9.5	Complied
2400	Vertical	58.1	70.3	12.2	Complied

Results: Upper Band Edge / Peak / Channel 10

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	70.7	74.0	3.3	Complied

Results: Upper Band Edge / Average / Channel 10

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	49.9	54.0	4.1	Complied
2483.756	Vertical	50.8	54.0	3.2	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 2

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2389.872	Vertical	69.7	74.0	4.3	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 2

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2390	Vertical	47.6	54.0	6.4	Complied

Transmitter Band Edge Radiated Emissions (continued)

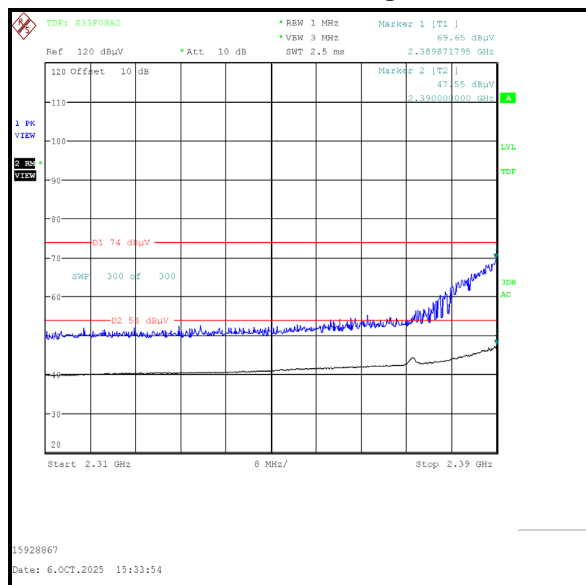
Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0****Results: Lower Band Edge / Channel 3**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2398.878	Vertical	61.7	71.0	9.3	Complied
2400	Vertical	56.7	71.0	14.3	Complied

Results: Upper Band Edge / Peak / Channel 9

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	69.0	74.0	5.0	Complied
2484.798	Vertical	71.1	74.0	2.9	Complied

Results: Upper Band Edge / Average / Channel 9

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	52.1	54.0	1.9	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 3

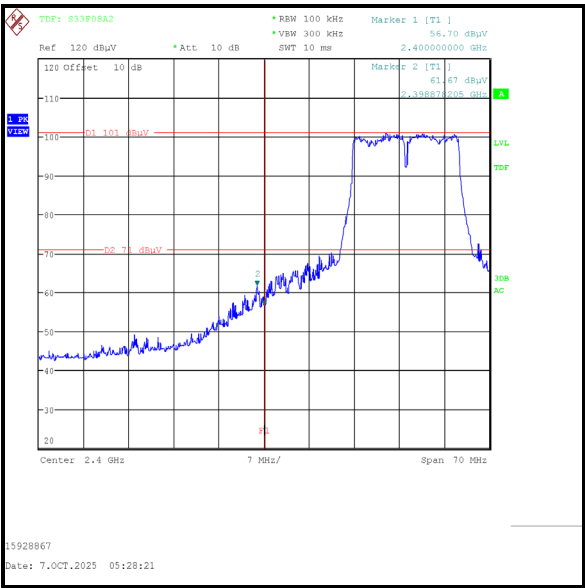
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2390	Vertical	64.6	74.0	9.4	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 3

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2390	Vertical	46.5	54.0	7.5	Complied

Transmitter Band Edge Radiated Emissions (continued)

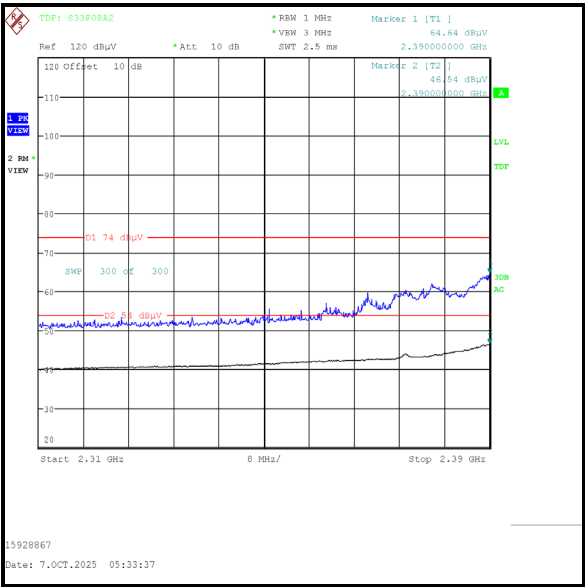
Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0****Results: Lower Band Edge / Channel 4**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2397.308	Vertical	58.6	72.3	13.7	Complied
2400	Vertical	57.6	72.3	14.7	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 4

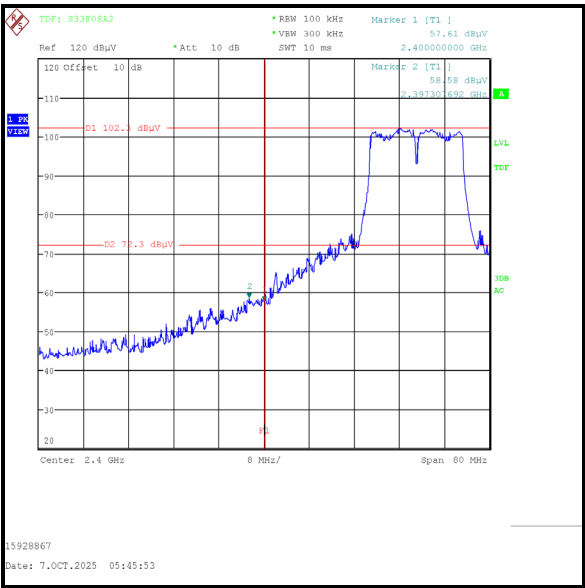
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2388.718	Vertical	69.7	74.0	4.3	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 4

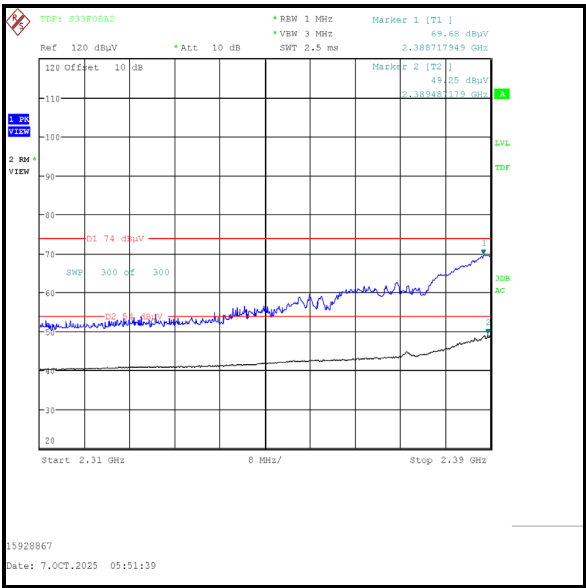
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2389.487	Vertical	49.3	54.0	4.7	Complied

Transmitter Band Edge Radiated Emissions (continued)

Results: 802.11g / 20MHz / SISO / 6 Mbps / Ant 0



Lower Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11n HT20 / SISO / MCS0 / Ant 0****Results: Lower Band Edge / Channel 1**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	-30 dBc Limit (dB μ V/m)	Margin (dB)	Result
2399.840	Vertical	59.3	69.7	10.4	Complied
2400	Vertical	56.6	69.7	13.1	Complied

Results: Upper Band Edge / Peak / Channel 11

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	68.0	74.0	6.0	Complied

Results: Upper Band Edge / Average / Channel 11

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2483.5	Vertical	51.7	54.0	2.3	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak / Channel 1

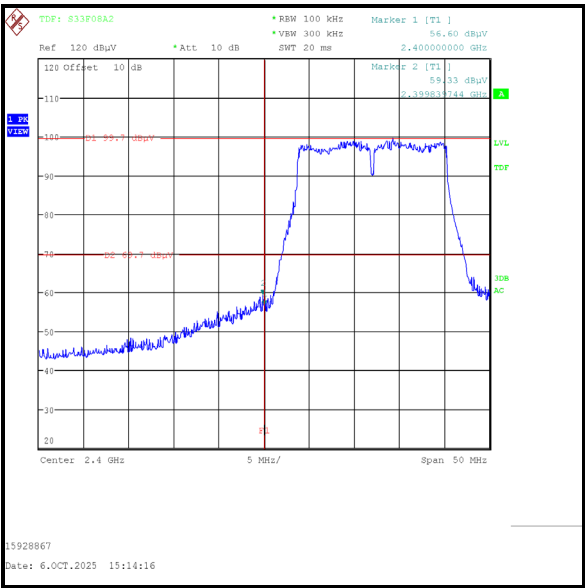
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2389.872	Vertical	63.0	74.0	11.0	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Average / Channel 1

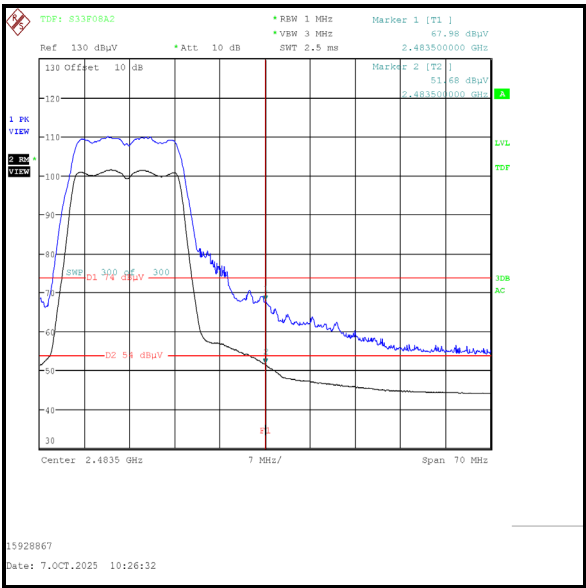
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2390.000	Vertical	47.8	54.0	6.2	Complied

Transmitter Band Edge Radiated Emissions (continued)

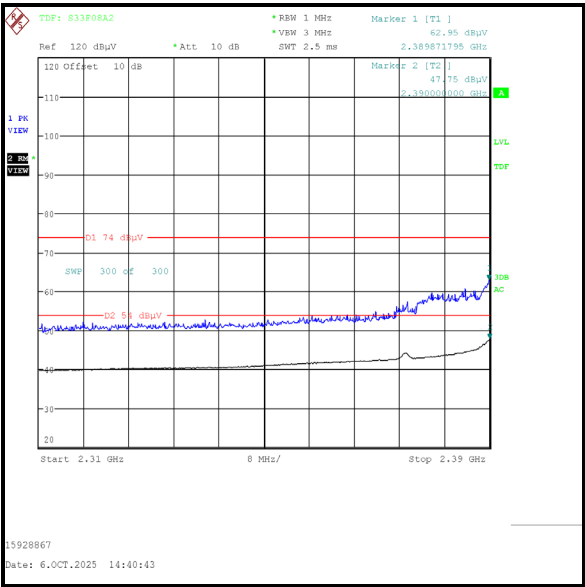
Results: 802.11n HT20 / SISO / MCS0 / Ant 0



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band