



Test Report - FCC Part 15.247

Applicant: Technology for Energy Corporation

Signature:

A handwritten signature in black ink, appearing to read "Tim Royer", written over a horizontal line.

Sr. EMC Engineer
EMC-003838-NE



Name & Title: Tim Royer, Lab Manager

Date of Signature 09/30/2025

Signature:

A handwritten signature in black ink, appearing to read "Fouzia Syed", written over a horizontal line.

Name & Title: Fouzia Syed, Senior Test Engineer.

Date of Signature 09/30/2025

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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1. Applicant Information

Applicant: Technology for Energy Corporation
Address: 10737 Lexington Drive
Knoxville TN 37932
United States

1.1 Test Result Summary

The following test procedure and guidance were used for measuring Digital Transmission System (DTS); FCC KDB 558074 D01 DTS Measurement Guidance and ANSI C63.10-2013. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. IIA Lab Services LLC does not offer opinions and interpretations, only a pass/fail statement.

Applicable Clauses from Part 2 or KDB		
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
KDB 558074 D01	Duty Cycle	Reported
KDB 558074 D01	99 % Bandwidth	Reported
KDB 558074 D01	Band-edge measurements	Pass

Applicable Clauses from Part 15.247		
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
15.247 (a) (1) – (1) (iii)	FHSS hopping requirements (1, i,ii,iii)	Pass
15.247 (a) (1)	FHSS 20dB Bandwidth	Pass
15.247 (a) (2)	DTS 6dB Bandwidth	n/a
15.247 (b) (1) – (4)	Conducted output power	Pass
15.247 (c) (1) – (2)	Operation with directional antenna gains > 6 dBi	n/a
15.247 (d), 15.215 (b)	Conducted Emissions in Non-restricted bands	Pass
15.247 (d), 15.215 (b)	Conducted Emissions at the Band-edge	Pass
15.247 (e)	Power Spectral Density (PSD)	n/a
15.247 (f)	Hybrid system hopping requirements	n/a
15.247 (f)	Hybrid system Power Spectral Density	n/a
15.247 (g)	FHSS System requirements	Pass
15.247 (h)	FHSS spectrum sensing	n/a

Applicable Clauses from Part 2 and Part 15 Subpart C		
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
15.203	Antenna requirements	Pass
15.205	Restricted bands of operation	Pass
15.207	AC Power Conducted Emissions	n/a
15.209	Radiated Emissions in Restricted bands	Pass
15.211	Tunnel Radio Systems	n/a
15.212 (a)	Single Modular Transmitter	n/a
15.212 (b)	Limited Modular Transmitter	n/a
15.213	Cable Locating Equipment	n/a

2. Location of Testing

2.1 Test Laboratory

IIA Lab Services LLC. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

3. Test Sample(s) (EUT/DUT)

The test sample was received: 08/07/2025

Dates of Testing: 09/01/2025~09/10/2025

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	2BRGL-2501T001
Brief Description	This is a Wi-Fi enabled personal alert button. It can be worn as a name plate or a lanyard. The device will maintain a 2.4 GHz Wi-Fi connection. When an alert is triggered, it will transmit approximately 1.5 MB of data.
Model(s) #	ESP32
Firmware version	4.1
Serial Number	004B12A2BBD8 &004B12A2BC58 &004B12A2BC14

Technical Characteristics	
Technology	N/A
Frequency Range	2412-2484MHz &2402-2480MHz
Modulation	N/A
Number of Channels	11
Duty Cycle	100%
Voltage Rating (AC or Batt.)	3.7 V

Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

3.2 Configuration of EUT

Test Modes						
Band (MHz)	Mode (#)	Mode (Type)	Test Frequencies (MHz)	BW (nominal)(kHz)	Modulation	Number of Antennas
MHz	1	N/A	MHz MHz MHz	kHz	N/A	1

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

A laptop provided by the IIA was used to program the EUT.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Digital Transmission System (DTS) are provided in the FCC KDB 558074 D01 DTS Measurement Guidance and in Clause 11 of ANSI C63.10-2013.

- 1) ANSI C63.10-2013
- 2) FCC KDB 558074 D01

4.2 Applied Limits and Regulatory Limits:

- 3) FCC CFR 47 Part 15.247 (2020)

5. Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	± 3.14 dB
Radiated Emissions (9kHz – 30 MHz)	± 3.08 dB
Radiated Emissions (30 – 200 MHz)	± 2.16 dB
Radiated Emissions (200 – 1000 MHz)	± 2.15 dB
Radiated Emissions (1 GHz – 18 GHz)	± 2.14 dB
Radiated Emissions (18 GHz – 40 GHz)	± 2.31 dB
Note: The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6. Environmental Conditions

6.1 Temperature & Humidity

Measurements performed at the test site did not exceed the following:

Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric pressure	30.05 inHg
Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.	

7. List of Test Equipment and Test Facility

The test equipment used to identify by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

7.1 List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna	<u>Biconical</u> 1057	Eaton	94455-1	1057	9/1/2024	9/1/2027
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	9/1/2024	9/1/2027
Antenna	<u>Double- Ridged Horn/ETS Horn 1</u>	ETS-Lindgren	3117	00035923	5/31/23	5/30/2026
CHAMBER	<u>CHAMBER</u>	Panashield	3M	N/A	12/29/23	12/18/2025
Pre-amp	<u>Pre-amp</u>	RF-LAMBDA	RLNA00M45GA	NA	2/27/22	7/26/2025
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	10/13/22	10/12/2025

Software			
Software	Author	Version	Validation on
ESU Firmware	Rohde & Schwarz	4.43 SP3; BIOS v5.1-24-3	2018
RSCCommander	Rohde & Schwarz	1.6.4	2014
ScopeExplorer	LeCroy	v2.25.0.0	2009
Field Strength	IIA	v4.10.7.0	2016

8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

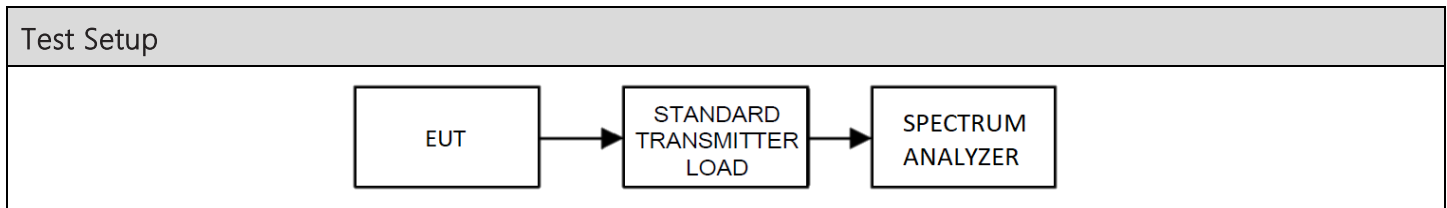
Example:

Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dB μ V	+ 10.36 dB/m	+0.40 dB	=30.36 dB μ V/m @ 3m

$EIRP = P_{cond} \text{ (dBm)} + dBi$

8.1 Conducted Output Power

Limits from FCC Part 15.247 (b) (1) – (4) as applicable, and test procedure from ANSI C63.10-2013 section 7.8 or 11.9 as applicable.



Output Power Test Results

Test Results, Mode 1	
Tuned Frequency (MHz)	Power Output (dBm)
2402	10.11
2442	10.34
2480	10.31

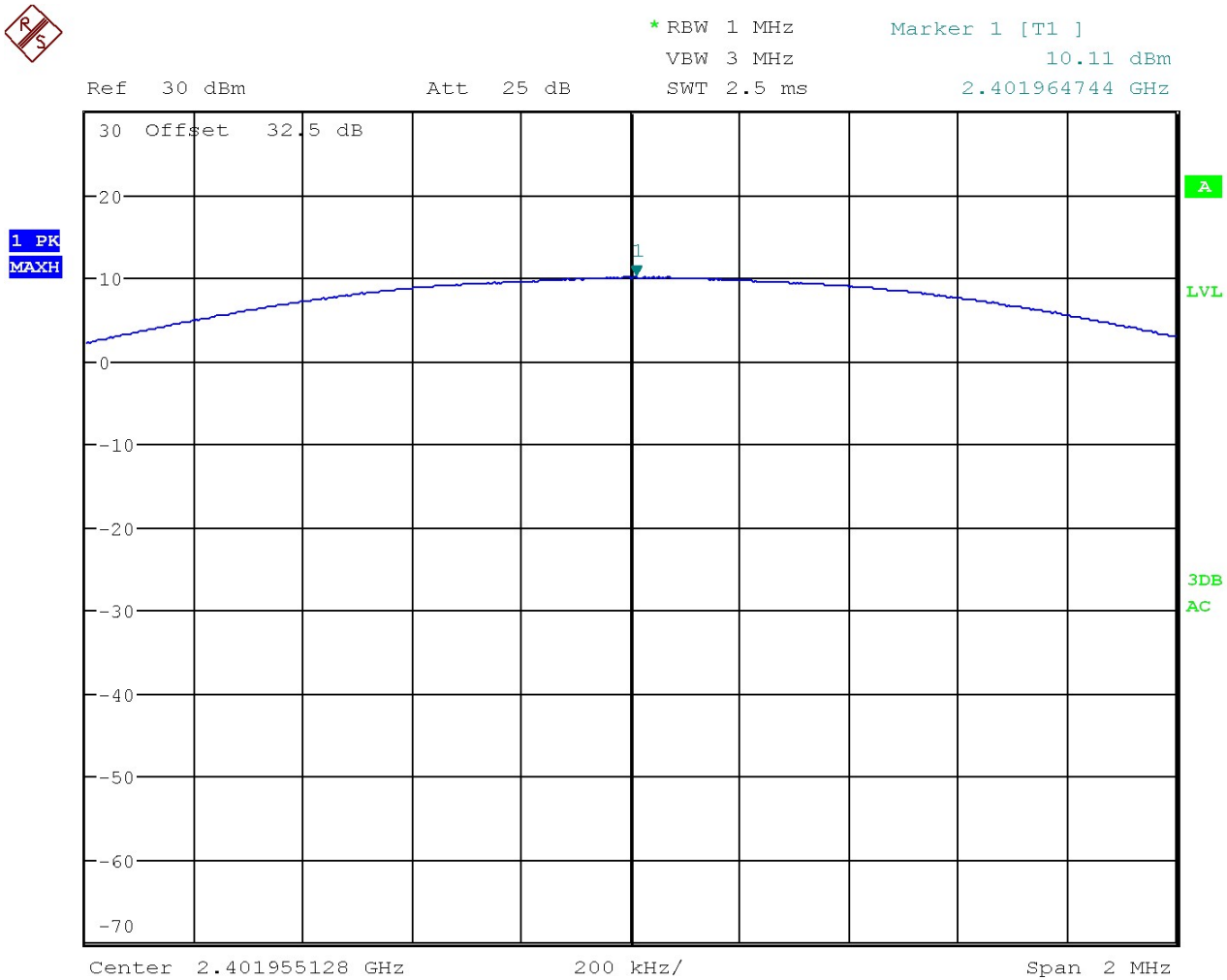
- MAXIMUM Conducted Output Power = 10.34 dBm

Point-to-Point - N/A. The EUT is not a PtP device.

MIMO - N/A. The EUT is not a MIMO device.

Conducted Output Power, Spectrum Plots

8.1.1 Conducted Output Power, 2402 MHz



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8.1.2 Conducted Output Power, 2442 MHz



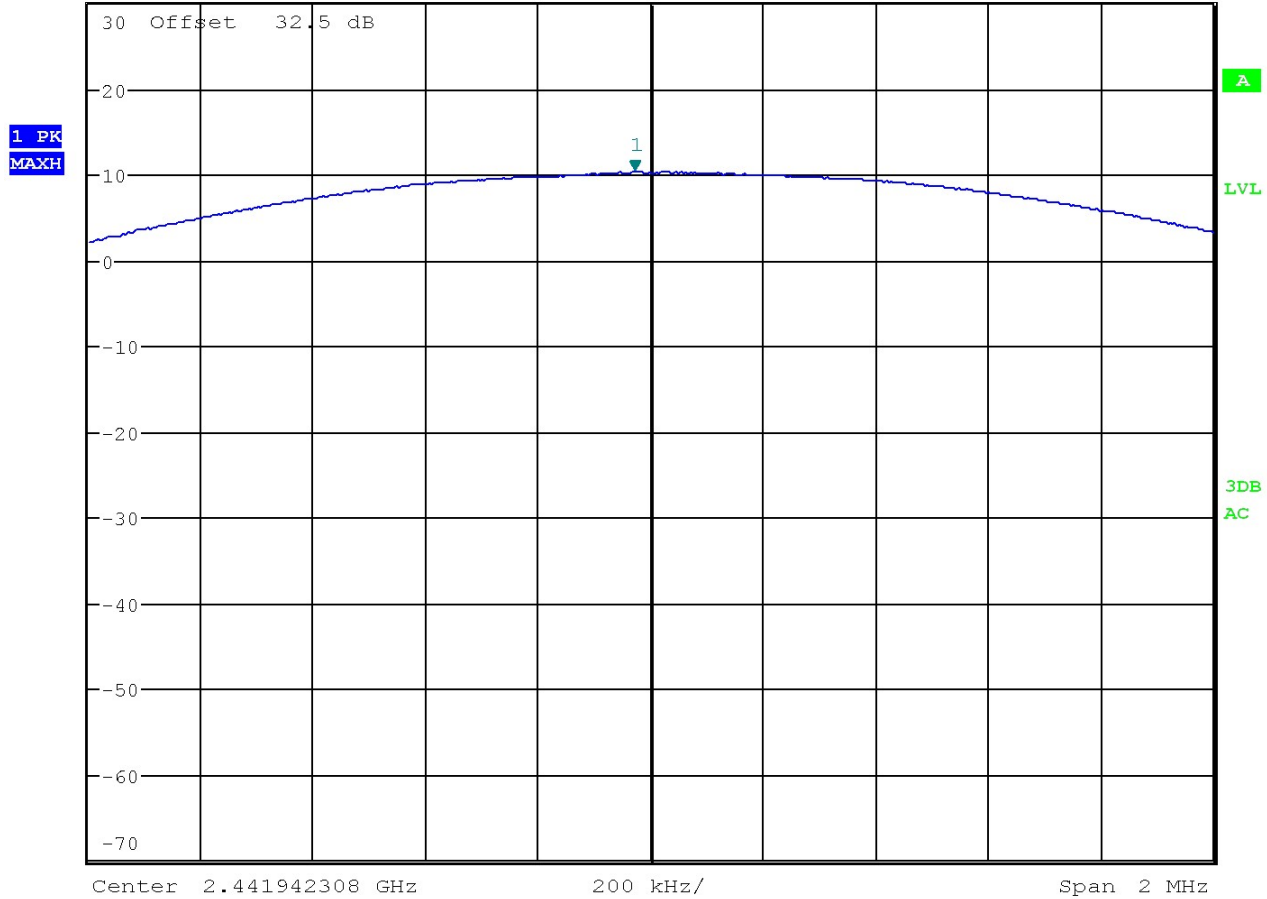
* RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 10.34 dBm
SWT 2.5 ms 2.441913462 GHz

Ref 30 dBm

Att 25 dB

SWT 2.5 ms

2.441913462 GHz

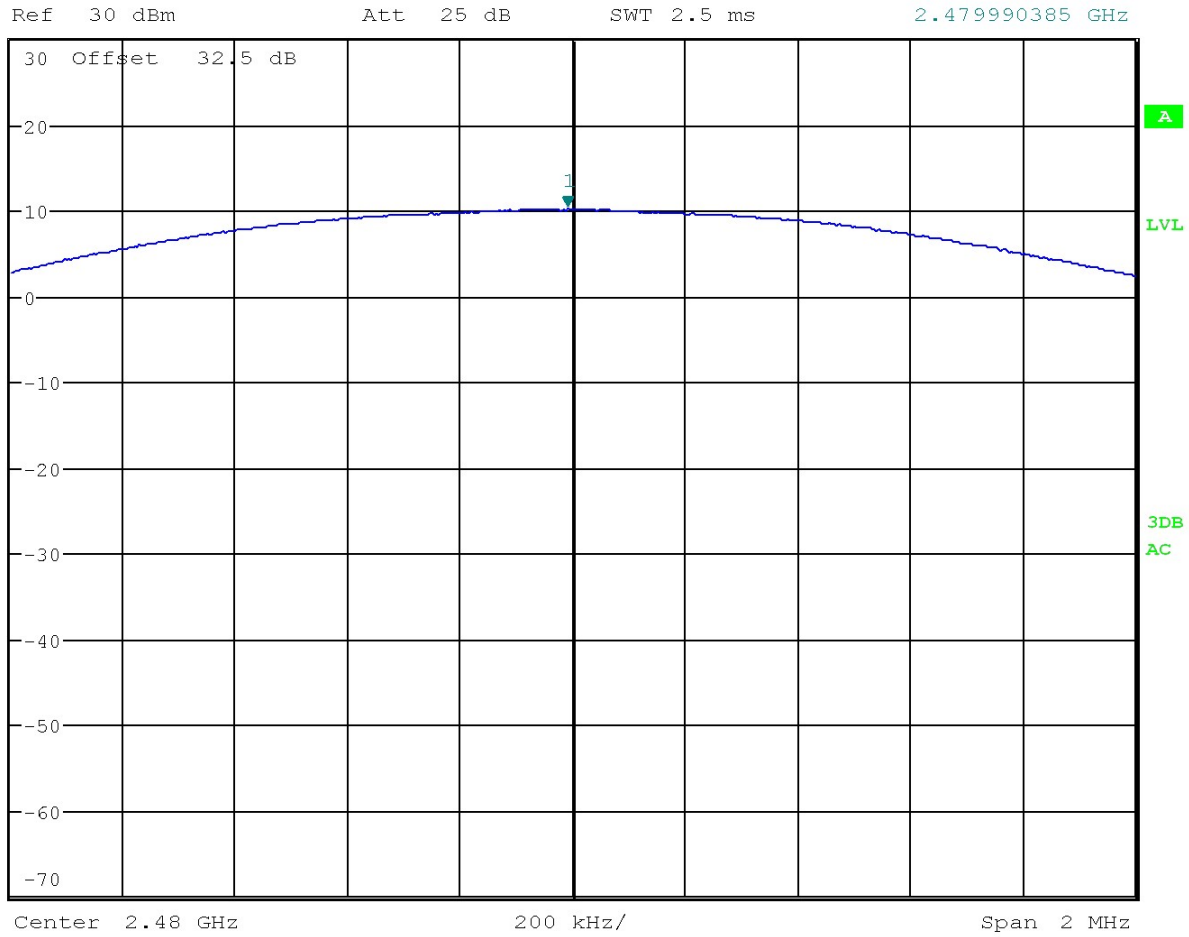


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8.1.3 Conducted Output Power, 2480 MHz



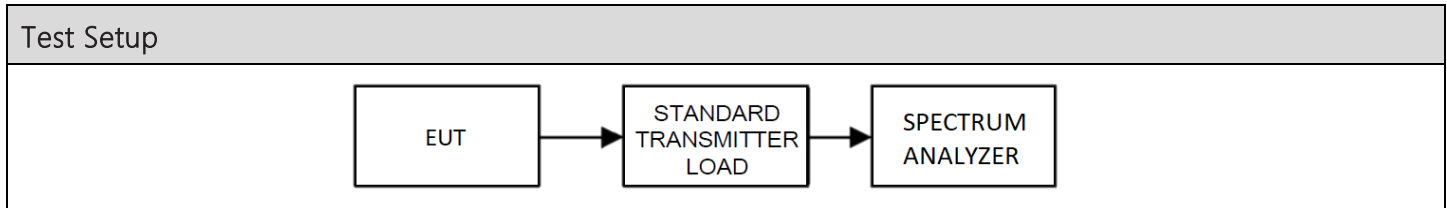
* RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 10.31 dBm
SWT 2.5 ms 2.479990385 GHz



Date: 9.SEP.2025 11:51:58

8.2 Occupied Bandwidth

Requirement from FCC KDB 558074 D01 and test procedure from ANSI C63.10-2013 section 6.9.3



99% BW Test Results

Tuned Frequency (MHz)	99% BW (MHz)
2402	1.932
2442	1.932
2480	1.932

99% Occupied Bandwidth, Spectrum Plots

8.2.1 99% Occupied Bandwidth, 2402 MHz



* RBW 1 MHz

Marker 1 [T1]

VBW 3 MHz

10.60 dBm

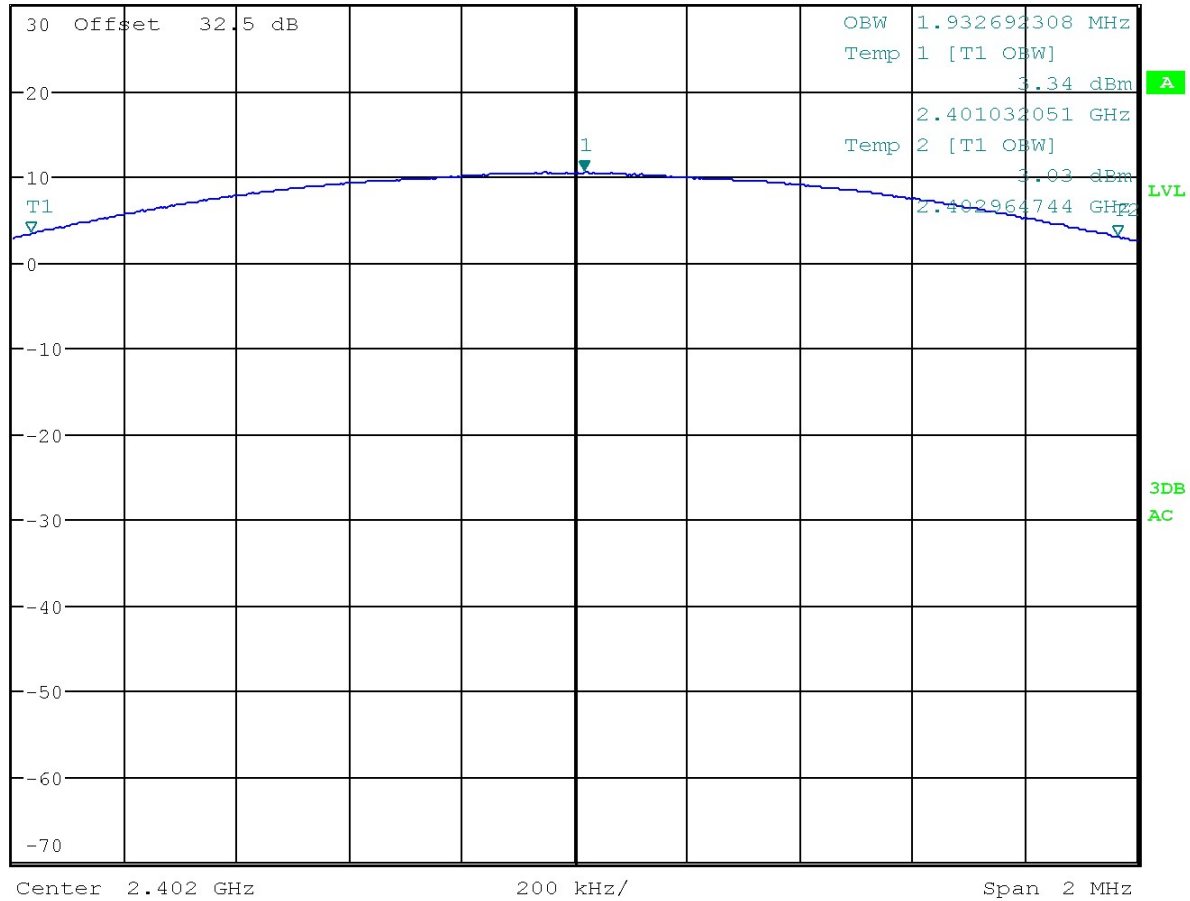
Ref 30 dBm

Att 5 dB

SWT 2.5 ms

2.402016026 GHz

1 PK
MAXH



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8.2.2 99% Occupied Bandwidth, 2442 MHz



* RBW 1 MHz

Marker 1 [T1]

VBW 3 MHz

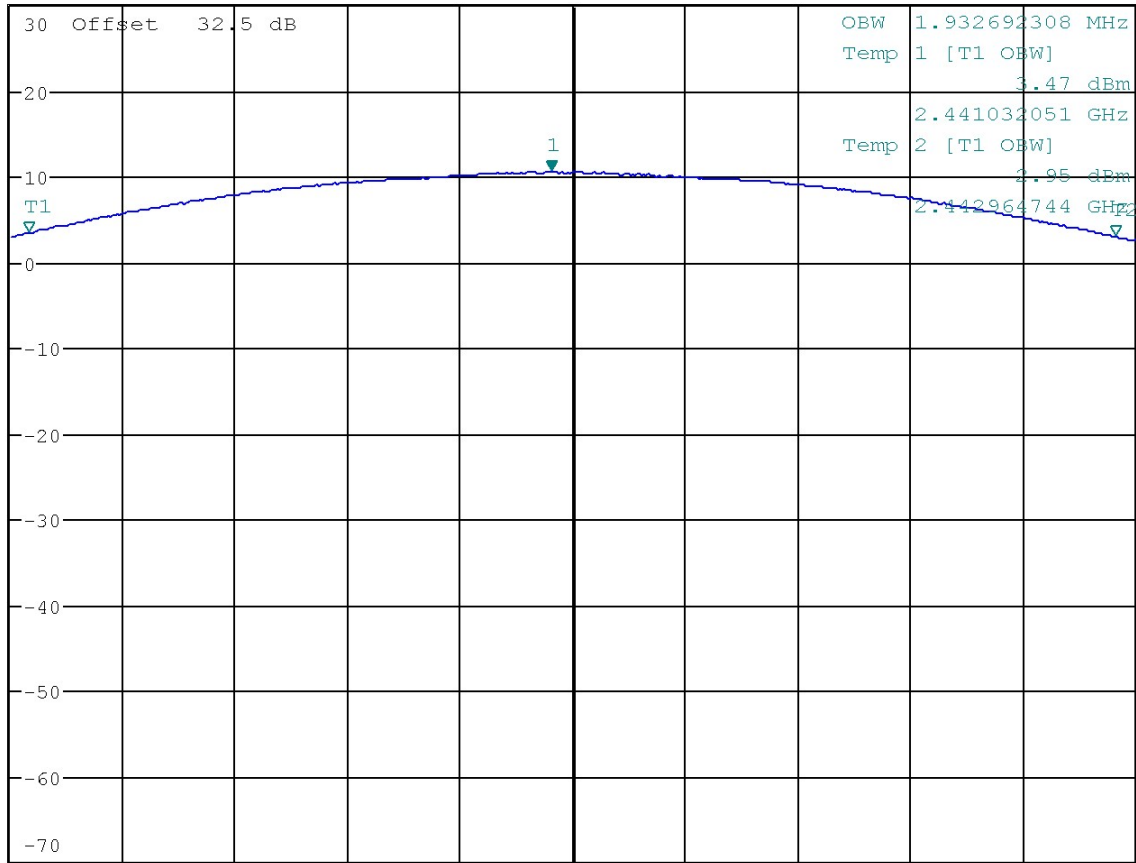
10.57 dBm

Ref 30 dBm

Att 5 dB

SWT 2.5 ms

2.441961538 GHz



Center 2.442 GHz

200 kHz/

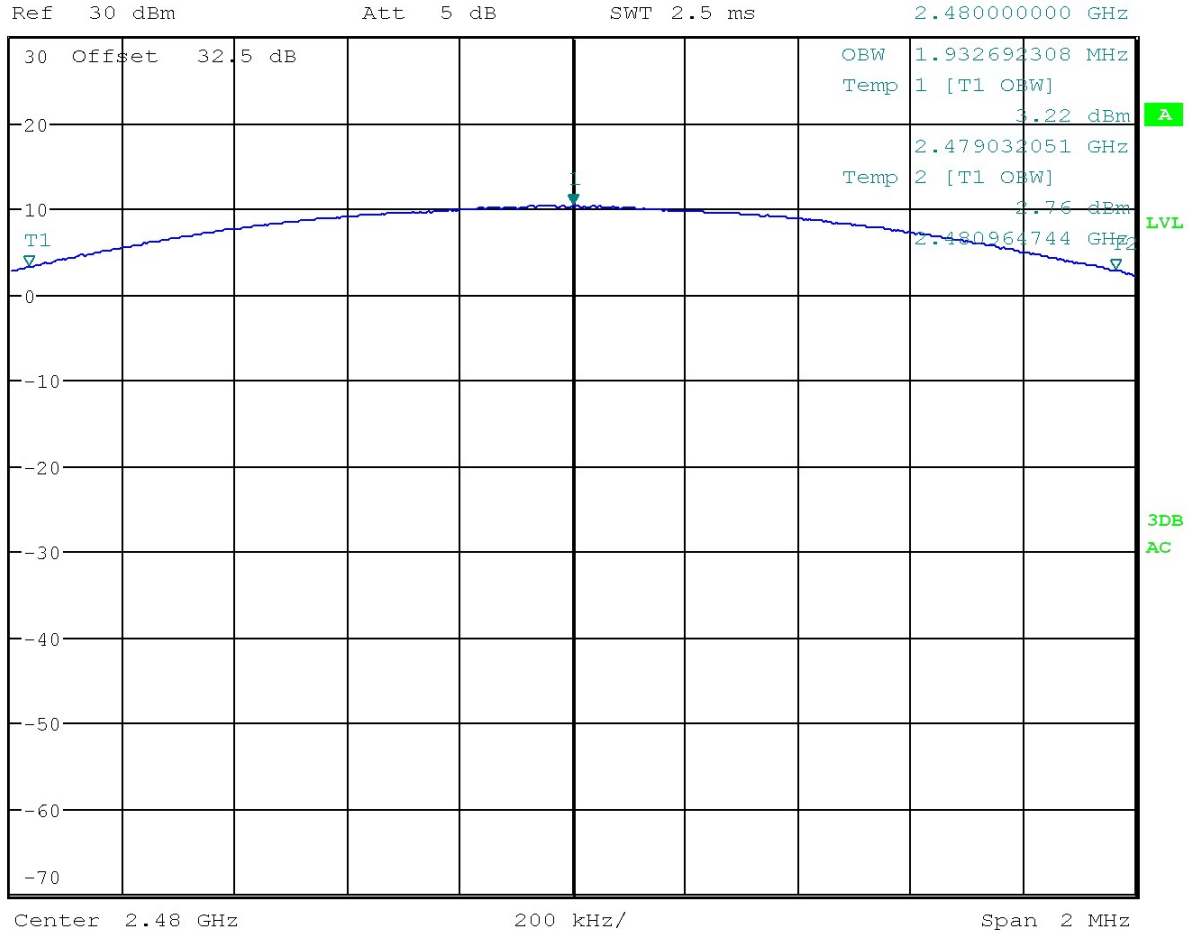
Span 2 MHz

Date: 9.SEP.2025 12:00:11

8.2.3 99% Occupied Bandwidth, 2480 MHz



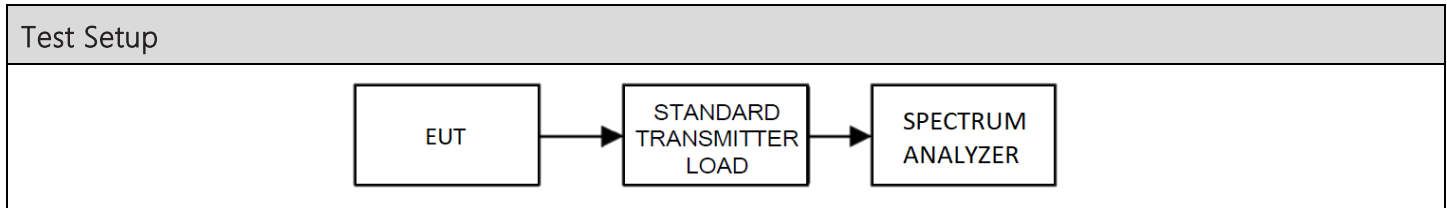
* RBW 1 MHz
VBW 3 MHz
SWT 2.5 ms
Marker 1 [T1]
10.38 dBm
2.480000000 GHz



Date: 9.SEP.2025 11:59:26

8.3 20dB Bandwidth

Limits from FCC Part 15.247 (a)(1) – (2) as applicable, and test procedure from ANSI C63.10-2013 section 7.8 or 11.8 as applicable.

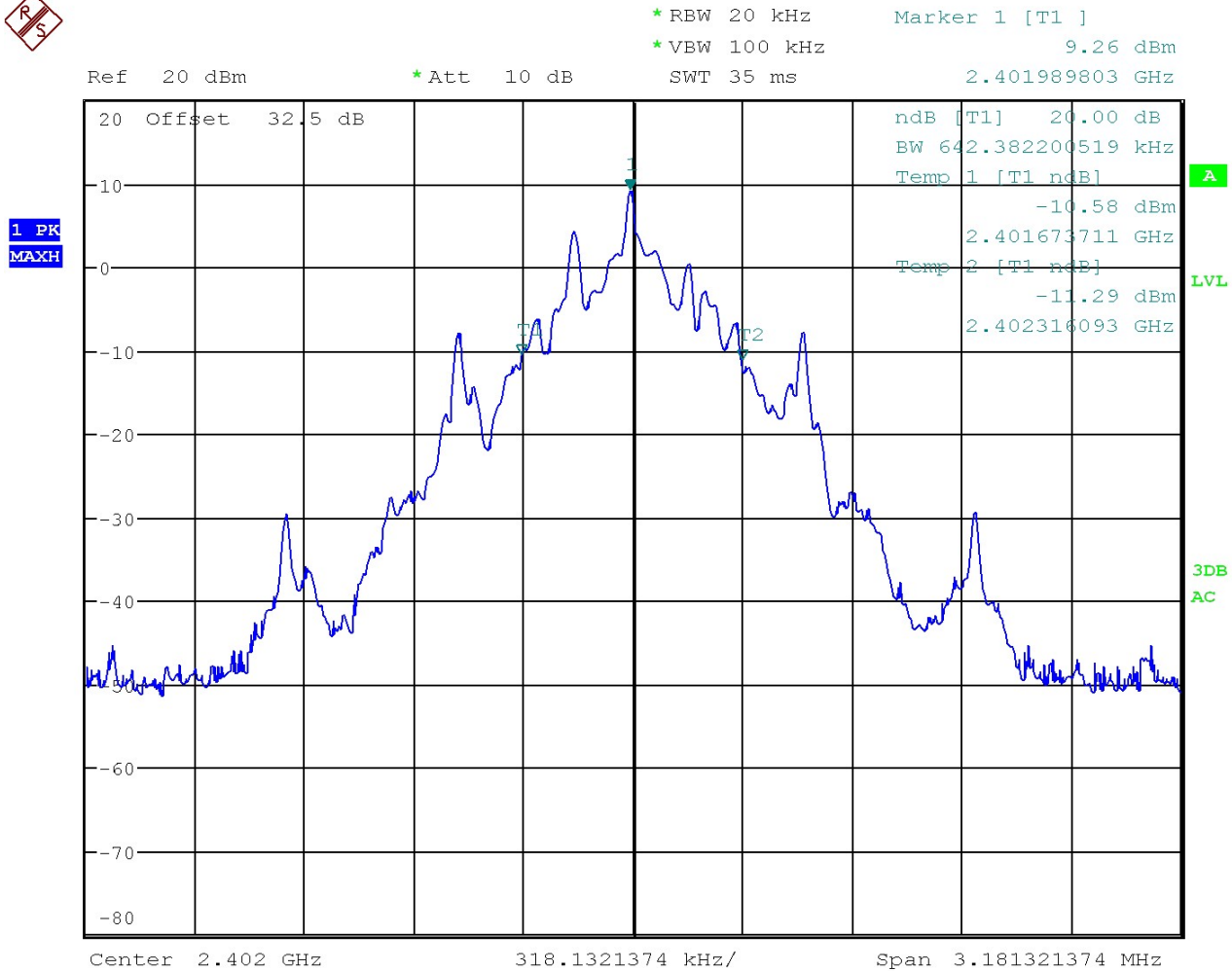


20dB Bandwidth Test Results

Test Results, Mode 1	
Tuned Frequency (MHz)	20dB Bandwidth (kHz)
2402	642
2442	642
2480	642

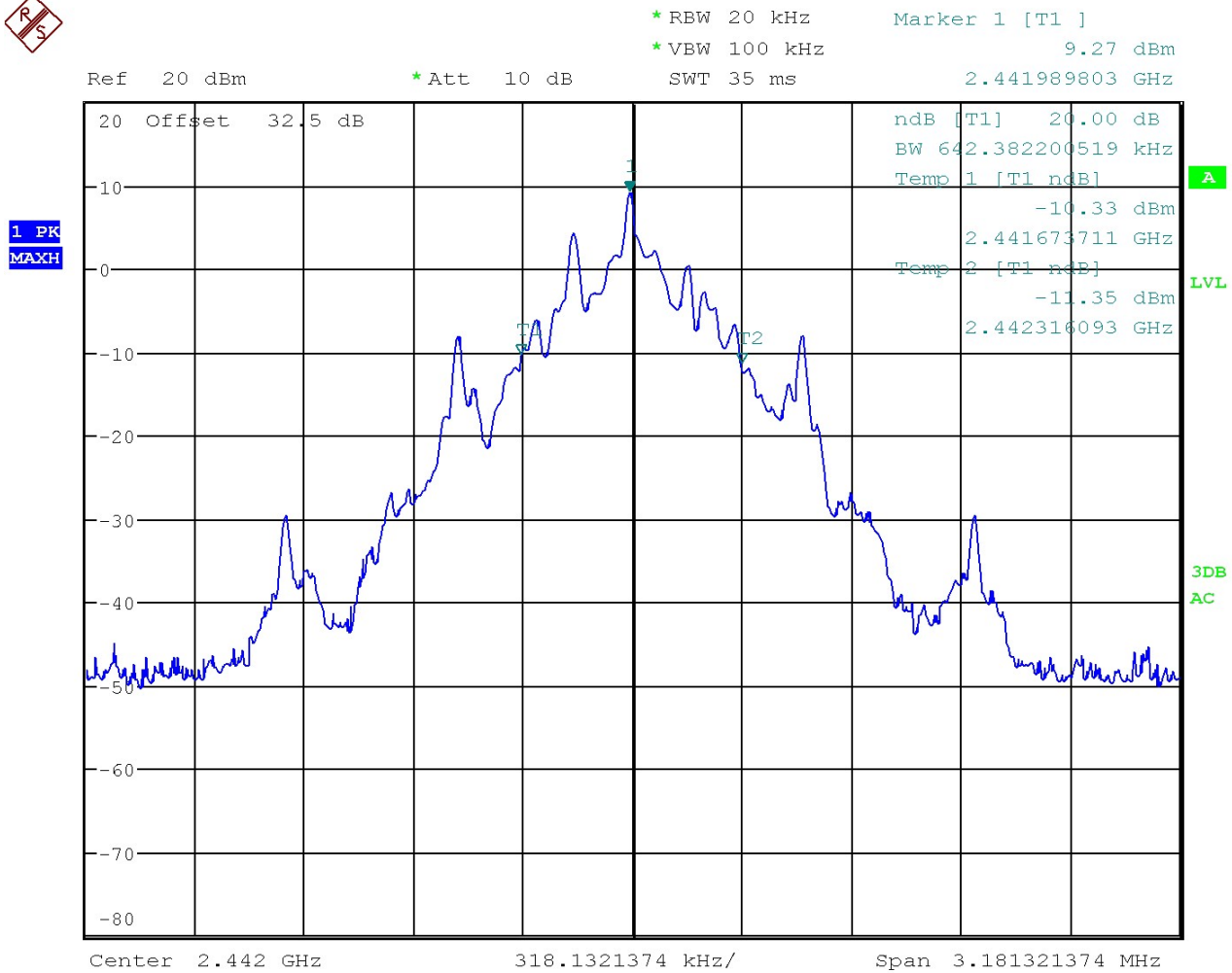
20dB Bandwidth, Spectrum Plots

8.3.1 20 dB Bandwidth, 2402 MHz



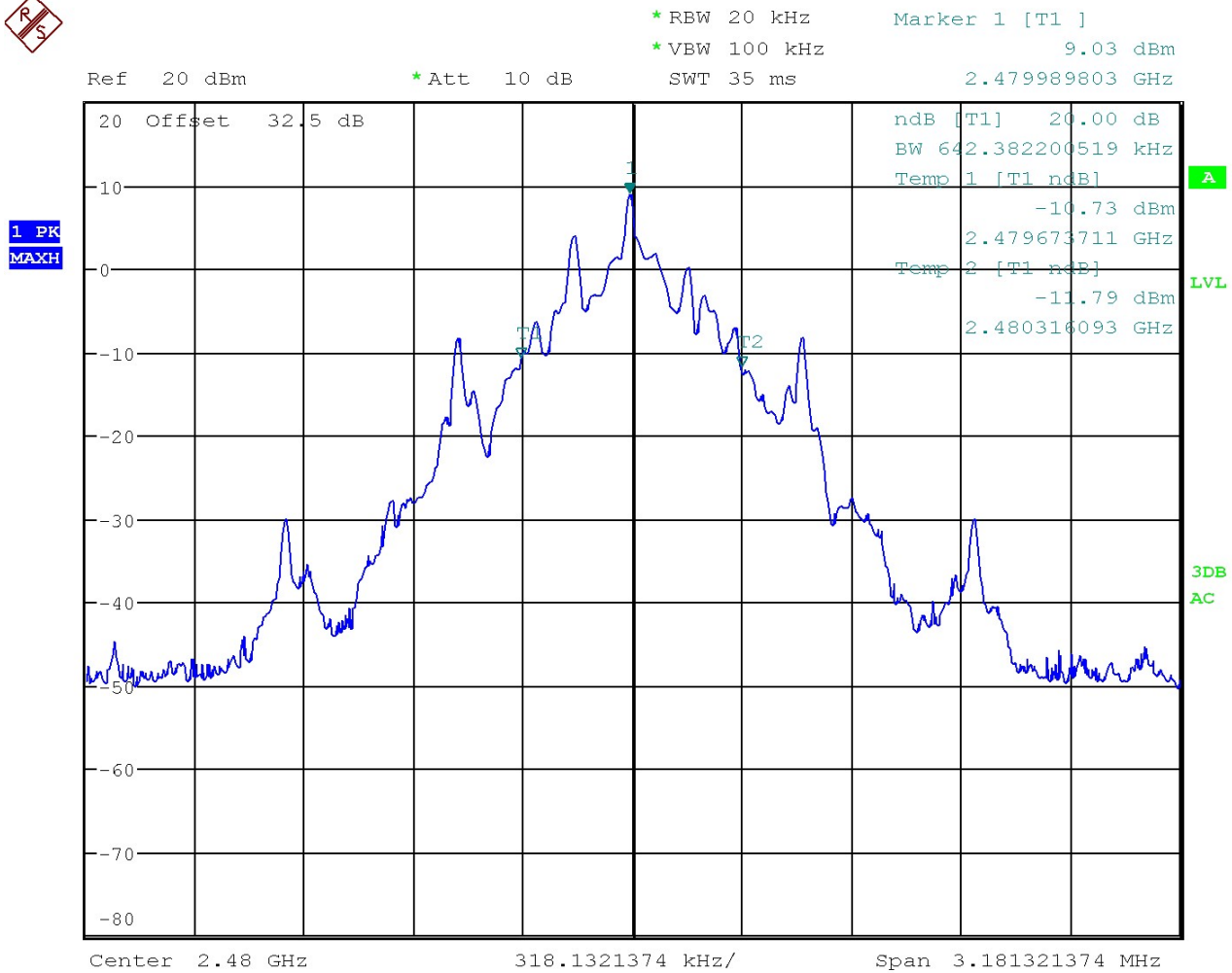
Date: 10.SEP.2025 10:47:04

8.3.2 20 dB Bandwidth, 2442 MHz



Date: 10.SEP.2025 10:16:27

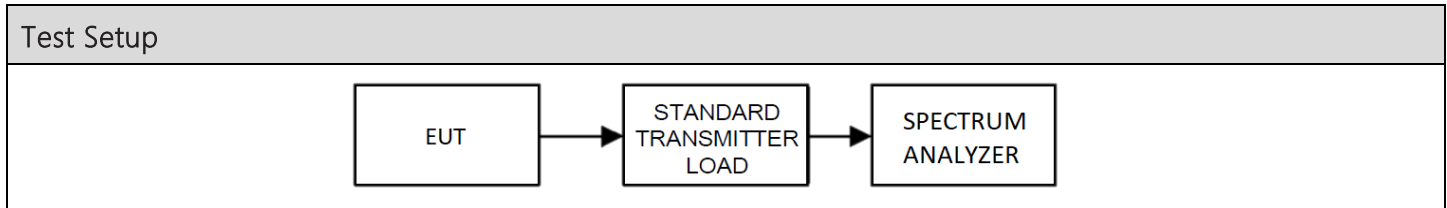
8.3.3 20 dB Bandwidth, 2480 MHz



Date: 10.SEP.2025 10:15:05

8.4 Hopping Characteristics

Limits from FCC 15.247(a)(1)(i) or 15.247 (f) as applicable, and test procedure from ANSI C63.10-2013 section 11.10



Test Results	
Carrier Frequency Separation	1 MHz
Number of Hopping Frequencies	79
Time of Occupancy	0.528 ms
Dwell Time in 10 s	41.712= number of hops(num of channel)*pulse width (0.528)ms

8.4.1 Hopping Channel Occupancy Time

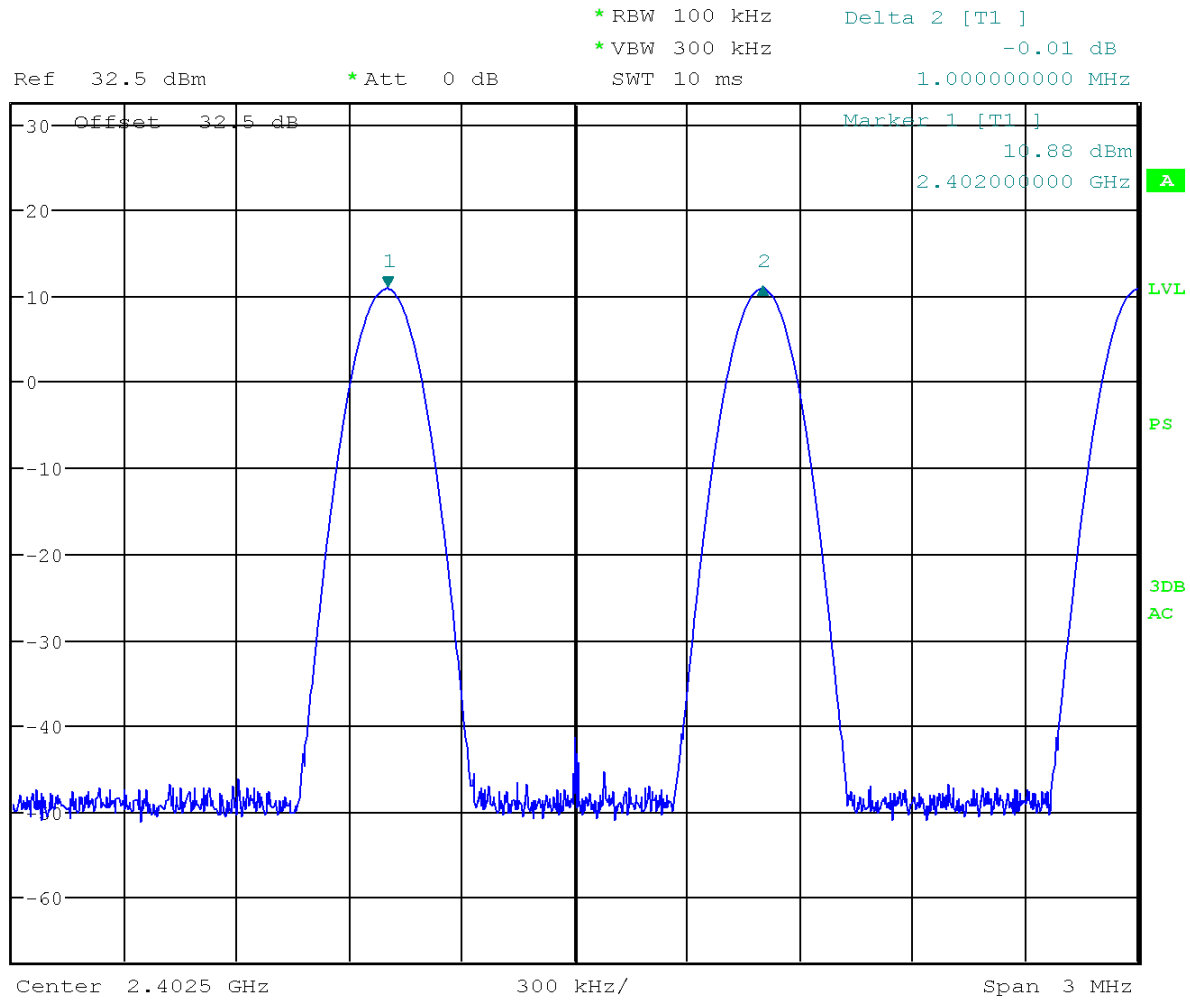
Number of hops	Dwell Time (ms)	Total Occupancy Time (ms)	Limit (sec)	Pass / Fail
79	0.528	47.712	≤ 0.4	Pass

Hopping Characteristics, Spectrum Plots

8.4.2 Carrier Frequency Separation Plot

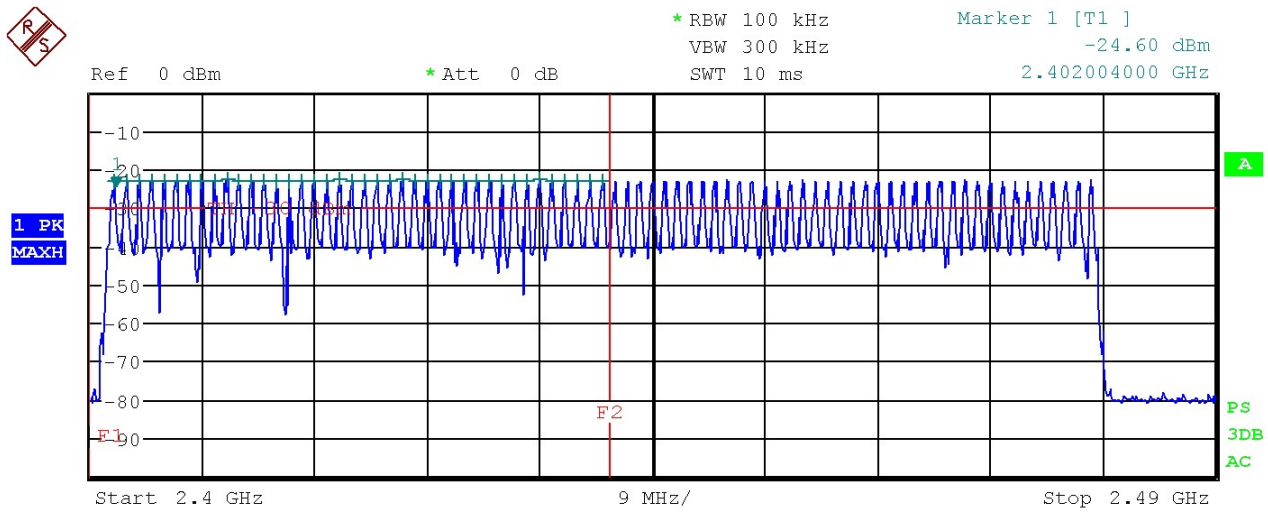


1 PK
VIEW



Date: 10.SEP.2025 11:25:54

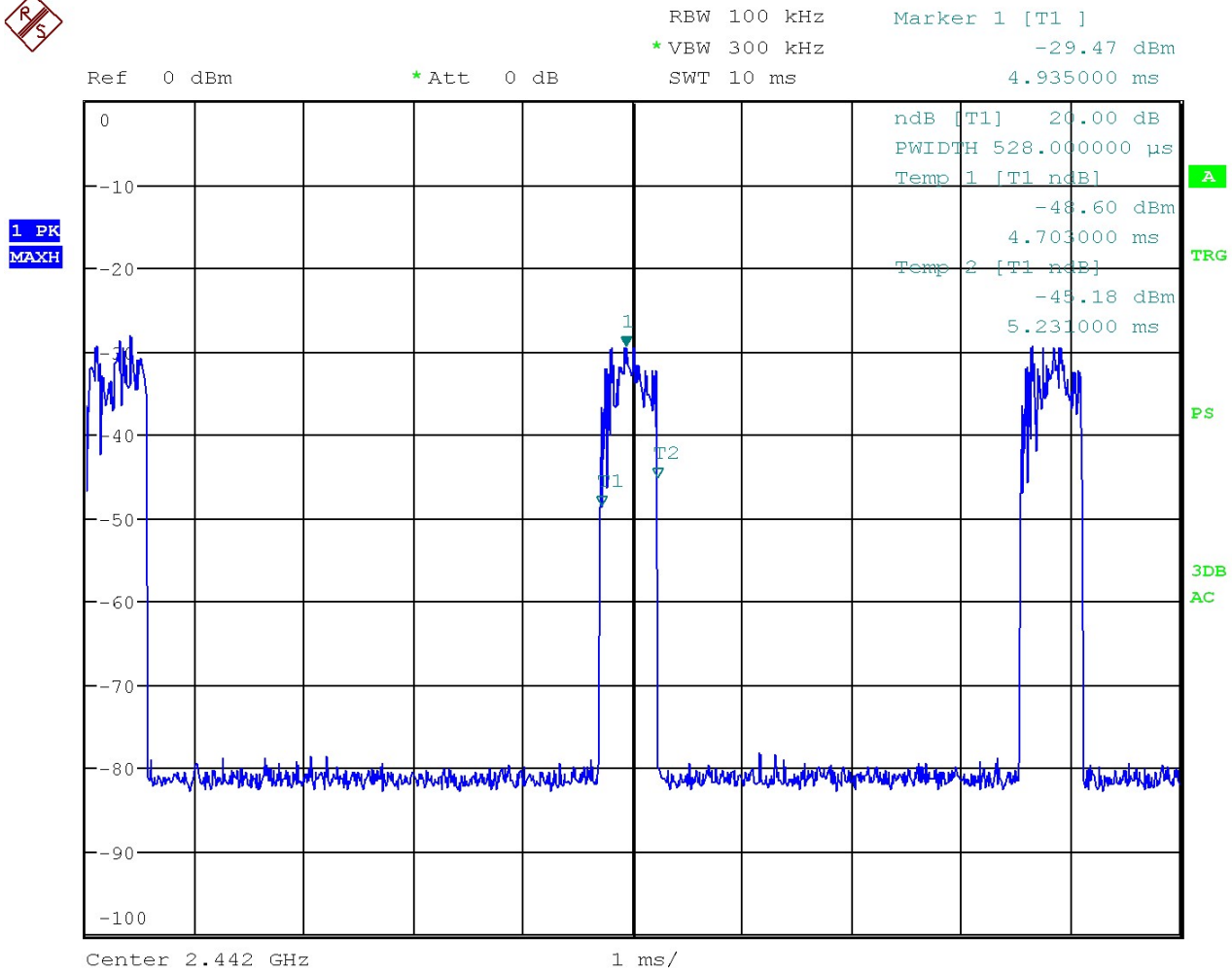
8.4.3 Number of Hopping Frequencies Plot



#	Frequency	Level	#	Frequency	Level
1	2.401944 GHz	-23.33 dBm	13	2.413968 GHz	-23.04 dBm
2	2.402952 GHz	-23.14 dBm	14	2.414976 GHz	-23.21 dBm
3	2.403960 GHz	-23.26 dBm	15	2.415984 GHz	-23.22 dBm
4	2.404968 GHz	-23.18 dBm	16	2.416992 GHz	-23.17 dBm
5	2.405976 GHz	-23.20 dBm	17	2.418000 GHz	-23.14 dBm
6	2.406984 GHz	-23.26 dBm	18	2.418936 GHz	-23.16 dBm
7	2.407992 GHz	-23.15 dBm	19	2.419944 GHz	-22.94 dBm
8	2.408928 GHz	-23.13 dBm	20	2.420952 GHz	-23.35 dBm
9	2.410008 GHz	-23.13 dBm	21	2.421960 GHz	-23.38 dBm
10	2.411016 GHz	-22.87 dBm	22	2.422968 GHz	-23.33 dBm
11	2.411952 GHz	-23.07 dBm	23	2.423976 GHz	-23.27 dBm
12	2.412960 GHz	-23.05 dBm	24	2.424984 GHz	-22.99 dBm

Date: 10.SEP.2025 11:46:14

8.4.4 Time of Occupancy Plot

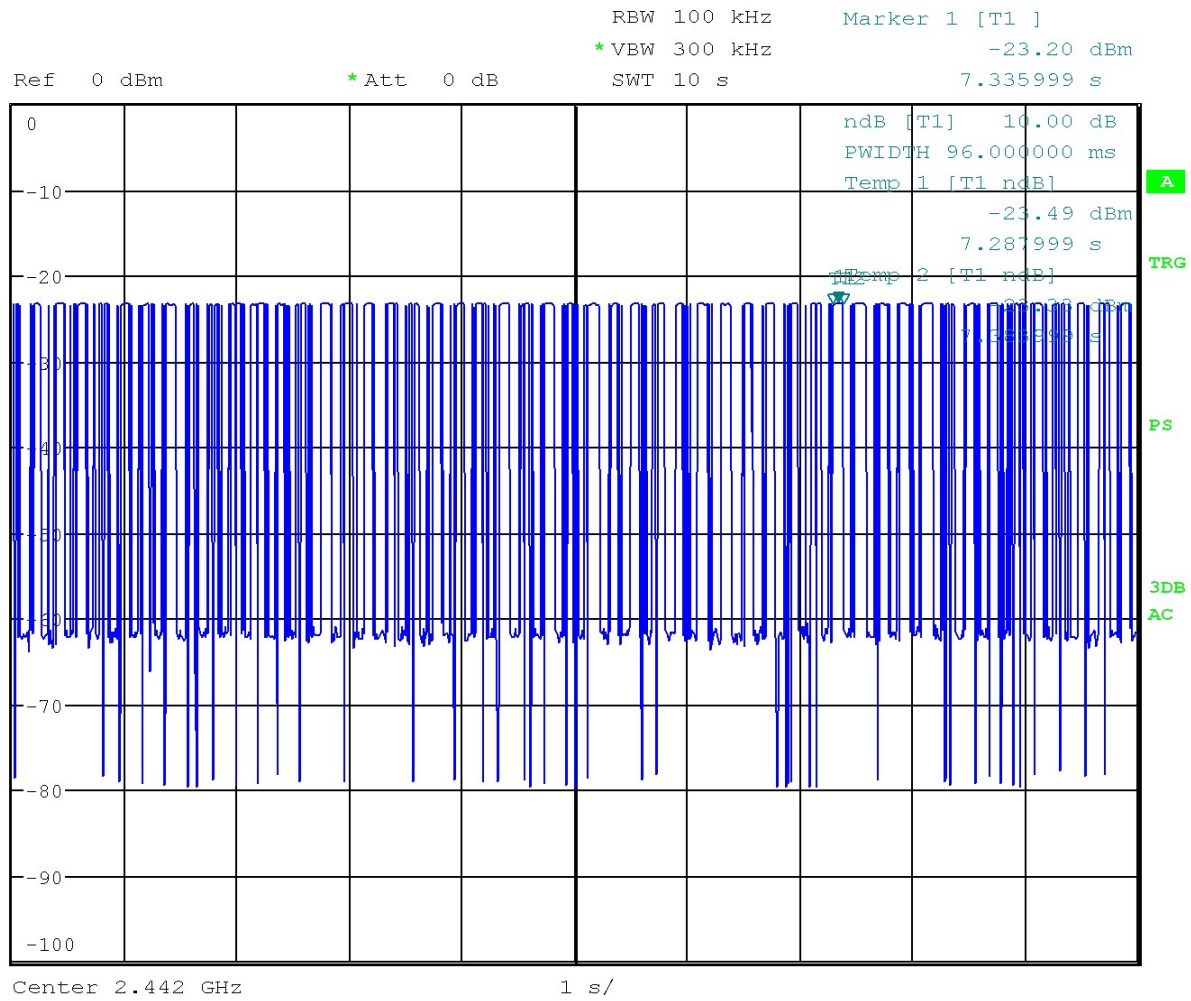


Date: 10.SEP.2025 13:33:33

8.4.5 Hops in 10 s Plot



1 PK
VIEW

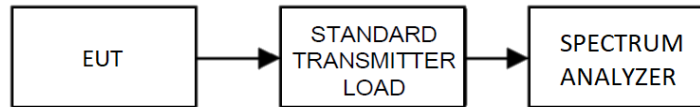


Date: 10.SEP.2025 12:05:34

8.5 Emissions in Nonrestricted Frequency Bands (Out of Band)

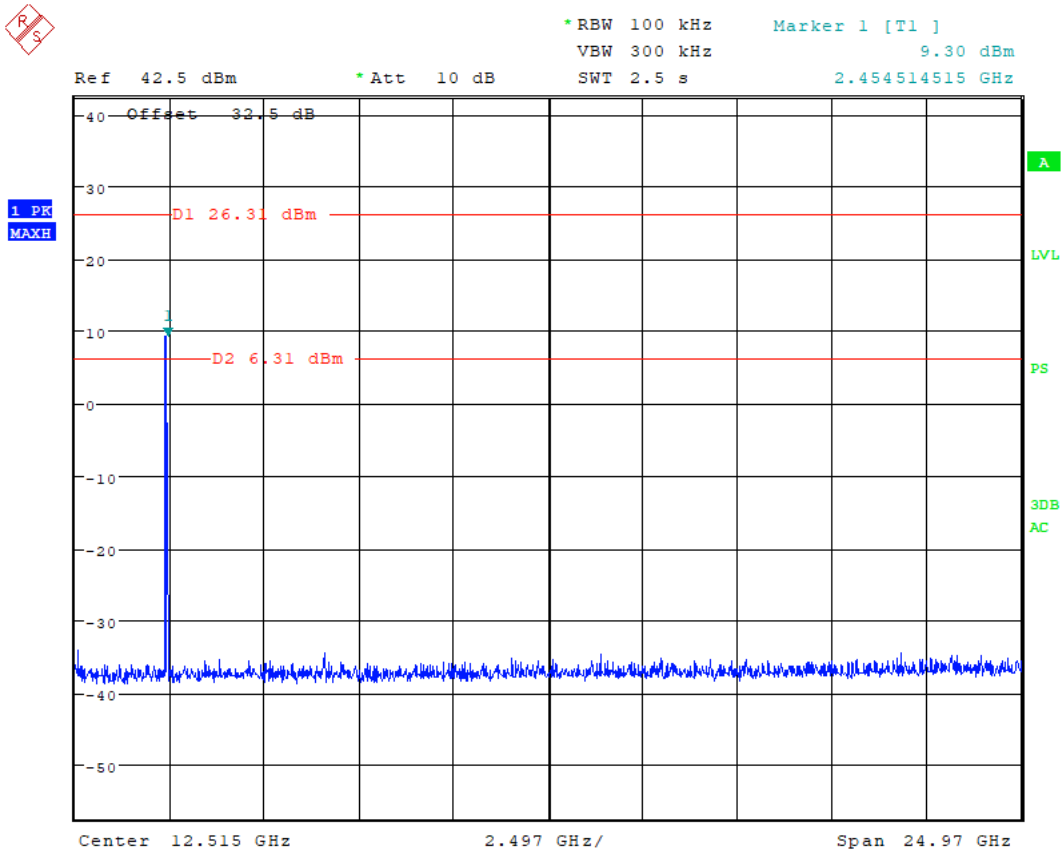
Limits from FCC Part 15.247 (d) and 15.215 (b) and test procedure from ANSI C63.10-2013 section 7.8 or 11.11 as applicable.

Conducted Test Setup



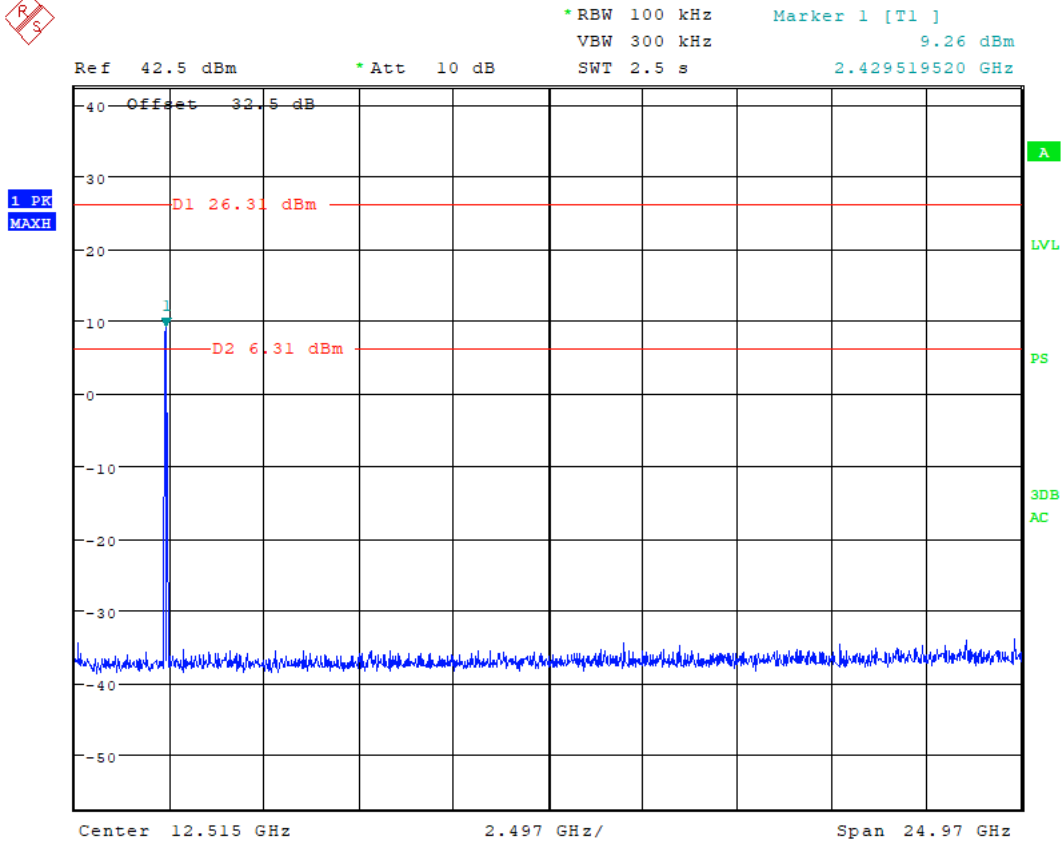
Conducted Emissions in Non-Restricted Bands, Spectrum Plots

8.5.1 Conducted Emissions Test Data, 2402 MHz



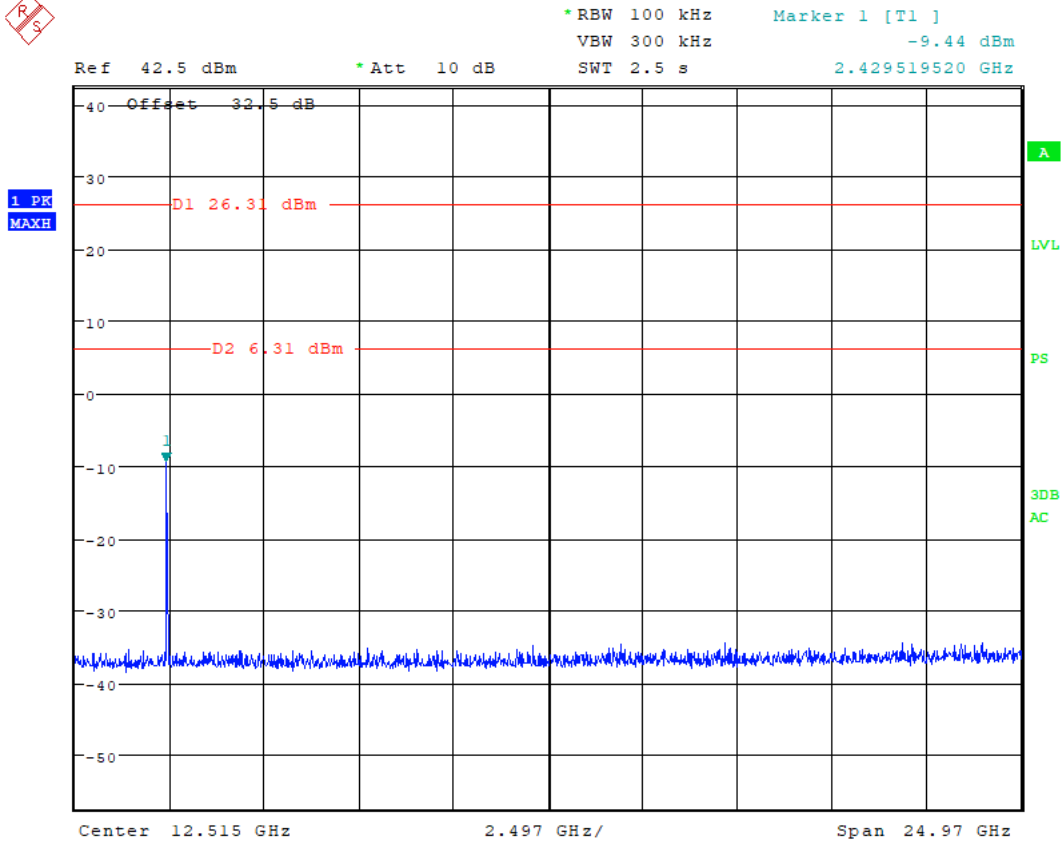
Date: 10.SEP.2025 14:00:36

8.5.2 Conducted Emissions Test Data, 2442 MHz



Date: 10.SEP.2025 14:03:44

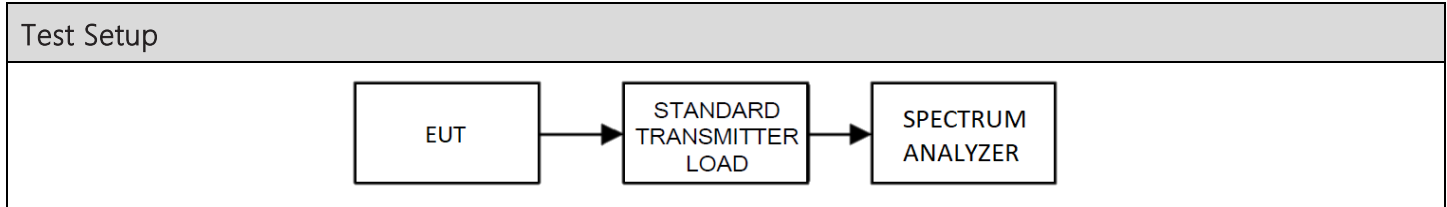
8.5.3 Conducted Emissions Test Data, 2480 MHz



Date: 10.SEP.2025 14:12:54

8.6 Power Spectral Density

Limits from 15.247 (e) as applicable, and test procedure from ANSI C63.10-2013 section 11.10.



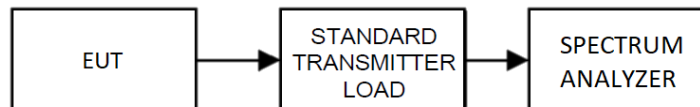
Test Results, Mode 1		
Tuned Frequency (MHz)	Resolution Bandwidth (kHz)	Power Spectral Density (dBm)

N/A. The EUT is not a DTS or Hybrid device.

8.7 Band-edge measurements

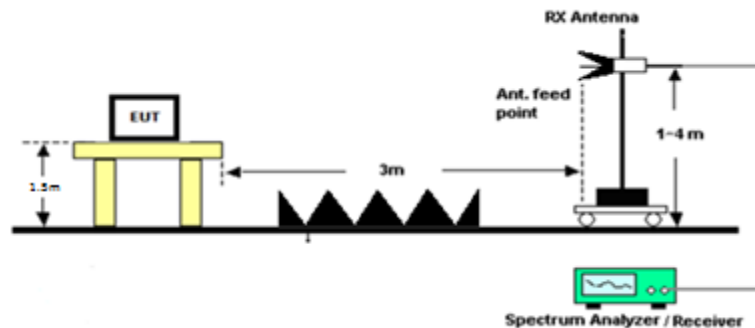
Requirement from FCC KDB 558074 D01 and test procedure from ANSI C63.10-2013 section 7.8 or 11.13 as applicable.

Conducted Test Setup



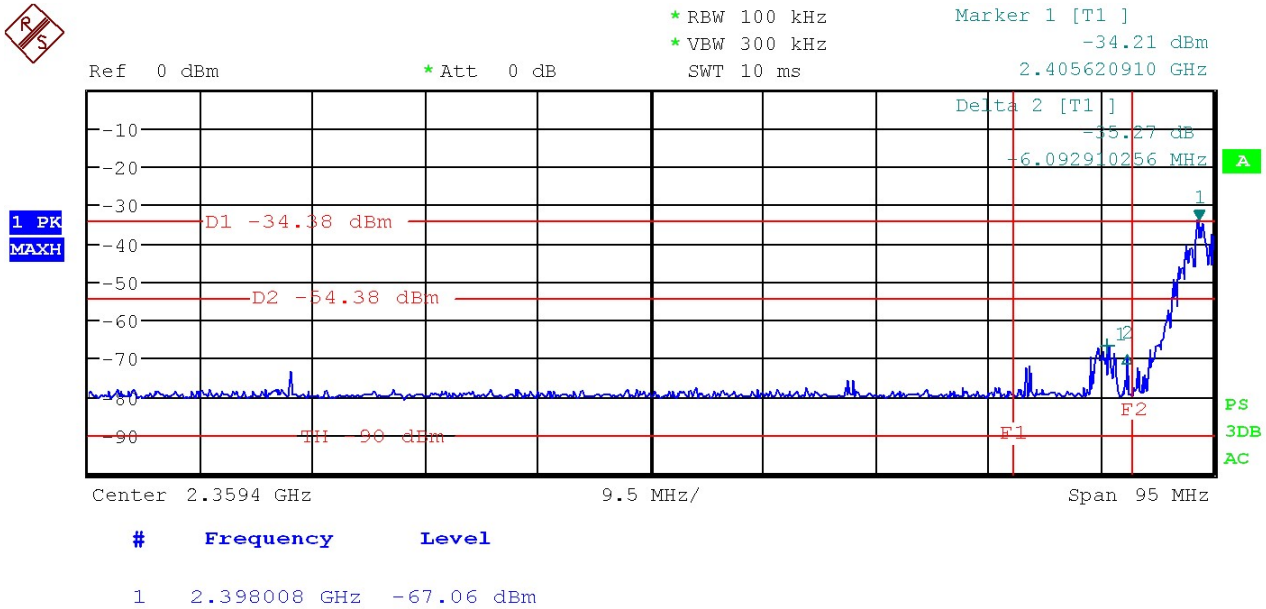
Radiated Test Setup, 30 – 1000 MHz

Radiated Test Setup, Above 1000 MHz



Band-edge Spectrum Plots

8.7.1 Lower Band Edge Plot, Stopped, 2402 MHz



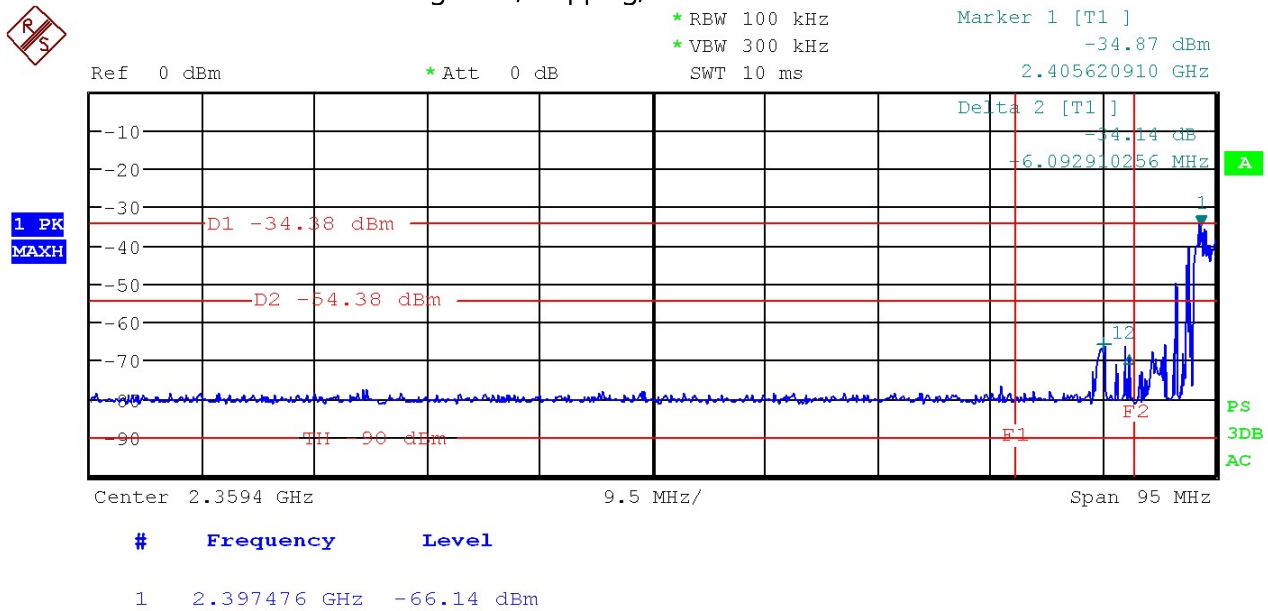
Date: 10.SEP.2025 15:48:16

8.7.2 Upper Band Edge Plot, Stopped, 2480 MHz



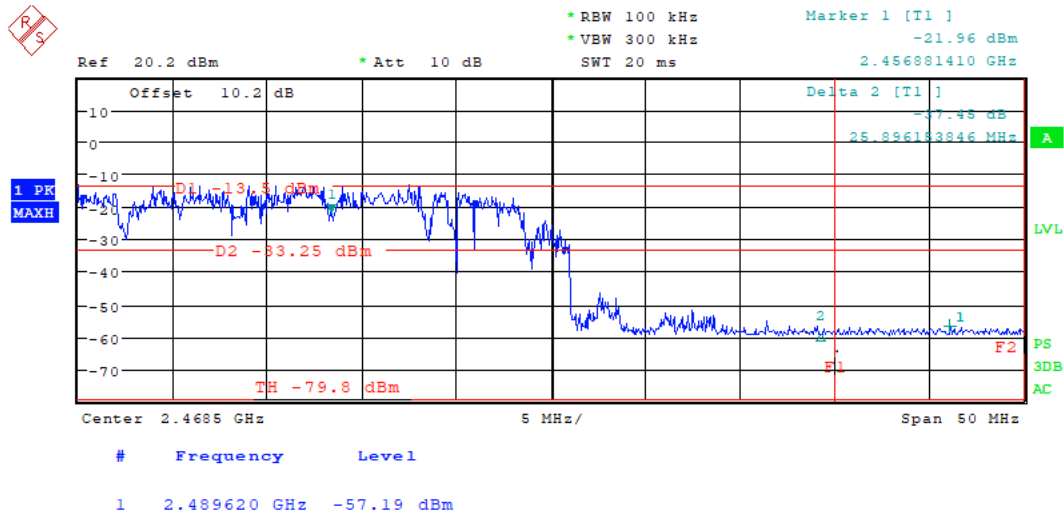
Date: 10.SEP.2025 15:26:43

8.7.3 Lower Band Edge Plot, Hopping, 2480 MHz



Date: 10.SEP.2025 15:51:26

8.7.4 Upper Band Edge Plot, Hopping, 2480 MHz

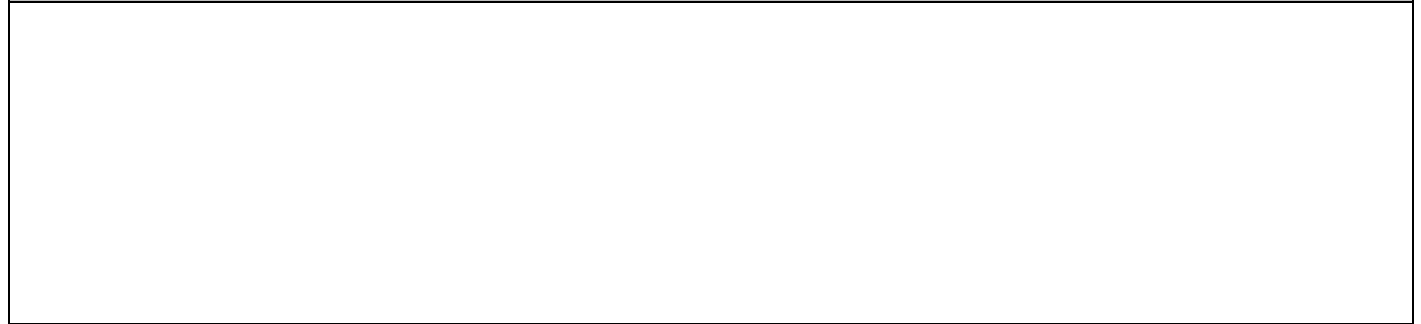


Date: 10.SEP.2025 15:21:33

8.8 Radiated Emissions

Restricted Bands from FCC Part 15.205; Limits from FCC Part 15.209

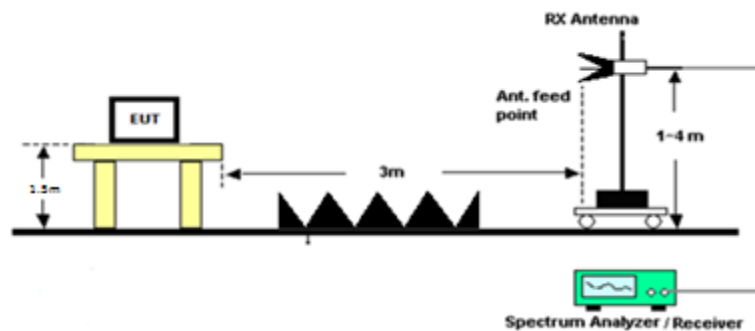
Radiated Test Setup, Below 30 MHz



Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



Radiated Emissions in Restricted Bands, Tabular Data

8.8.1 Radiated Emissions, 2402 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247 (d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402.00	4804.00	X	PK	-1.40	H	7.10	0.00	34.19	3.00	39.88	73.98	34.10
2402.00	4804.00	X	PK	-0.90	V	7.10	0.00	34.19	3.00	40.38	73.98	33.60
2402.00	4804.00	X	AVG	-16.00	H	7.10	0.00	34.19	3.00	25.28	53.98	28.70
2402.00	4804.00	X	AVG	-15.30	V	7.10	0.00	34.19	3.00	25.98	53.98	28.00
2402.00	7206.00		PK	-8.90	H	9.54	0.00	36.31	3.00	36.94	53.98	17.04
2402.00	7206.00		PK	-9.70	V	9.54	0.00	36.31	3.00	36.14	53.98	17.84
2402.00	9608.00		PK	-6.70	H	10.70	0.00	36.81	3.00	40.81	53.98	13.17
2402.00	9608.00		PK	-5.40	V	10.70	0.00	36.81	3.00	42.11	53.98	11.87
2402.00	12010.00	X	PK	-5.30	H	12.40	0.00	38.79	3.00	45.89	73.98	28.09
2402.00	12010.00	X	PK	-5.50	V	12.40	0.00	38.79	3.00	45.69	73.98	28.29
2402.00	12010.00	X	AVG	-17.80	H	12.40	0.00	38.79	3.00	33.39	53.98	20.59
2402.00	12010.00	X	AVG	-17.90	V	12.40	0.00	38.79	3.00	33.29	53.98	20.69
2402.00	14412.00		PK	-5.70	H	13.35	0.00	39.72	3.00	47.37	53.98	6.61
2402.00	14412.00		PK	-5.60	V	13.35	0.00	39.72	3.00	47.47	53.98	6.51
2402.00	16814.00		AVG	-15.10	H	14.60	0.00	42.29	3.00	41.80	53.98	12.18
2402.00	16814.00		AVG	-16.00	V	14.60	0.00	42.29	3.00	40.90	53.98	13.08
2402.00	19216.00	X	PK	-2.90	H	16.00	0.00	16.00	3.00	29.10	73.98	44.88
2402.00	19216.00	X	PK	-2.30	V	16.00	0.00	16.00	3.00	29.70	73.98	44.28
2402.00	19216.00	X	AVG	-15.00	H	16.00	0.00	16.00	3.00	17.00	53.98	36.98
2402.00	19216.00	X	AVG	-15.00	V	16.00	0.00	16.00	3.00	17.00	53.98	36.98
2402.00	21618.00		PK	0.30	H	16.90	0.00	16.90	3.00	34.10	53.98	19.88
2402.00	21618.00		PK	-0.10	V	16.90	0.00	16.90	3.00	33.70	53.98	20.28
2402.00	24020.00		PK	3.00	H	17.95	0.00	17.95	3.00	38.90	53.98	15.08
2402.00	24020.00		PK	2.90	V	17.95	0.00	17.95	3.00	38.80	53.98	15.18

8.8.2 Radiated Emissions, 2442 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247 (d) Detector	Meter Reading (dBµV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2442.00	4884.00	X	PK	-0.90	H	7.36	0.00	34.10	3.00	40.56	73.98	33.42
2442.00	4884.00	X	PK	-8.60	V	7.36	0.00	34.10	3.00	32.86	73.98	41.12
2442.00	4884.00	X	AVG	-16.30	H	7.36	0.00	34.10	3.00	25.16	53.98	28.82
2442.00	4884.00	X	AVG	-22.60	V	7.36	0.00	34.10	3.00	18.86	53.98	35.12
2442.00	7326.00	X	PK	-9.60	H	9.59	0.00	36.41	3.00	36.40	73.98	37.58
2442.00	7326.00	X	PK	-9.30	V	9.59	0.00	36.41	3.00	36.70	73.98	37.28
2442.00	7326.00	X	AVG	-22.80	H	9.59	0.00	36.41	3.00	23.20	53.98	30.78
2442.00	7326.00	X	AVG	-22.50	V	9.59	0.00	36.41	3.00	23.50	53.98	30.48
2442.00	9768.00		PK	-6.20	H	11.01	0.00	37.03	3.00	41.84	53.98	12.14
2442.00	9768.00		PK	-5.70	V	11.01	0.00	37.03	3.00	42.34	53.98	11.64
2442.00	12210.00	X	PK	-5.90	H	12.50	0.00	39.05	3.00	45.64	73.98	28.34
2442.00	12210.00	X	PK	-4.90	V	12.50	0.00	39.05	3.00	46.64	73.98	27.34
2442.00	12210.00	X	AVG	-18.70	H	12.50	0.00	39.05	3.00	32.84	53.98	21.14
2442.00	12210.00	X	AVG	-17.90	V	12.50	0.00	39.05	3.00	33.64	53.98	20.34
2442.00	14652.00		PK	-6.10	H	13.61	0.00	39.87	3.00	47.37	53.98	6.61
2442.00	14652.00		PK	-6.30	V	13.61	0.00	39.87	3.00	47.17	53.98	6.81
2442.00	17094.00		PK	-2.70	H	14.66	0.00	41.94	3.00	53.90	53.98	0.08
2442.00	17094.00		PK	-2.80	V	14.66	0.00	41.94	3.00	53.80	53.98	0.18
2442.00	19536.00	X	PK	-1.40	H	15.61	0.00	15.61	3.00	29.82	73.98	44.16
2442.00	19536.00	X	PK	-1.20	V	15.61	0.00	15.61	3.00	30.02	73.98	43.96
2442.00	19536.00	X	AVG	-14.40	H	15.61	0.00	15.61	3.00	16.82	53.98	37.16
2442.00	19536.00	X	AVG	-14.40	V	15.61	0.00	15.61	3.00	16.82	53.98	37.16
2442.00	21978.00		PK	2.00	H	16.97	0.00	16.97	3.00	35.95	53.98	18.03
2442.00	21978.00		PK	2.80	V	16.97	0.00	16.97	3.00	36.75	53.98	17.23
2442.00	24420.00		PK	4.20	H	18.29	0.00	18.29	3.00	40.77	53.98	13.21
2442.00	24420.00		PK	4.50	V	18.29	0.00	18.29	3.00	41.07	53.98	12.91

8.8.3 Radiated Emissions, 2480 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2480.00	4960.00	X	PK	-1.90	H	7.72	0.00	33.99	3.00	39.81	73.98	34.17
2480.00	4960.00	X	PK	-7.70	V	7.72	0.00	33.99	3.00	34.01	53.98	19.97
2480.00	4960.00	X	AVG	-16.40	H	7.72	0.00	33.99	3.00	25.31	53.98	28.67
2480.00	4960.00	X	AVG	-21.10	V	7.72	0.00	33.99	3.00	20.61	53.98	33.37
2480.00	7440.00	X	PK	-8.80	H	9.56	0.00	36.21	3.00	36.97	73.98	37.01
2480.00	7440.00	X	PK	-9.70	V	9.56	0.00	36.21	3.00	36.07	73.98	37.91
2480.00	7440.00	X	AVG	-22.30	H	9.56	0.00	36.21	3.00	23.47	53.98	30.51
2480.00	7440.00	X	AVG	-22.30	V	9.56	0.00	36.21	3.00	23.47	53.98	30.51
2480.00	9920.00		PK	-6.70	H	11.15	0.00	37.07	3.00	41.52	53.98	12.46
2480.00	9920.00		PK	-6.60	V	11.15	0.00	37.07	3.00	41.62	53.98	12.36
2480.00	12400.00	X	PK	-5.20	H	12.54	0.00	39.26	3.00	46.60	73.98	27.38
2480.00	12400.00	X	PK	-6.30	V	12.54	0.00	39.26	3.00	45.50	73.98	28.48
2480.00	12400.00	X	AVG	-18.40	H	12.54	0.00	39.26	3.00	33.40	53.98	20.58
2480.00	12400.00	X	AVG	-18.40	V	12.54	0.00	39.26	3.00	33.40	53.98	20.58
2480.00	14880.00		PK	-5.10	H	13.44	0.00	40.09	3.00	48.44	53.98	5.54
2480.00	14880.00		PK	-5.90	V	13.44	0.00	40.09	3.00	47.64	53.98	6.34
2480.00	17360.00		AVG	-14.80	H	15.01	0.00	41.59	3.00	41.80	53.98	12.18
2480.00	17360.00		AVG	-14.80	V	15.01	0.00	41.59	3.00	41.80	53.98	12.18
2480.00	19840.00	X	PK	-1.90	H	16.21	0.00	16.21	3.00	30.53	73.98	43.45
2480.00	19840.00	X	PK	-1.80	V	16.21	0.00	16.21	3.00	30.63	73.98	43.35
2480.00	19840.00	X	AVG	-14.90	H	16.21	0.00	16.21	3.00	17.53	53.98	36.45
2480.00	19840.00	X	AVG	-15.00	V	16.21	0.00	16.21	3.00	17.43	53.98	36.55
2480.00	22320.00	X	PK	1.00	H	17.02	0.00	17.02	3.00	35.03	73.98	38.95
2480.00	22320.00	X	PK	0.00	V	17.02	0.00	17.02	3.00	34.03	73.98	39.95
2480.00	22320.00	X	AVG	-12.70	H	17.02	0.00	17.02	3.00	21.33	53.98	32.65
2480.00	22320.00	X	AVG	-12.70	V	17.02	0.00	17.02	3.00	21.33	53.98	32.65
2480.00	24800.00		PK	5.80	H	18.07	0.00	18.07	3.00	41.94	53.98	12.04
2480.00	24800.00		PK	6.00	V	18.07	0.00	18.07	3.00	42.14	53.98	11.84

9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

10. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_22755-25_FCC 15.247_	1	Initial release	09/30/2025

END OF TEST REPORT