



Test Report - FCC Part 15.247/ DTS
Applicant: Cattron North America Inc

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1. Applicant Information

Applicant: Cattron North America Inc.
Address: 655 N. River Road NW
Suite A
Warren, OH 44483-2254, 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. Timco 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)	N/A
15.247 (a) (1)	FHSS 20dB Bandwidth	N/A
15.247 (a) (2)	DTS 6dB Bandwidth	Pass
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)	Pass
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	N/A
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

Timco Engineering Inc. 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

2.2 Testing was performed, reviewed by

Dates of Testing: 12/18/2023 – 1/19/2024

Signature:



Sr. EMC Engineer
EMC-003838-NE



Name & Title: Tim Royer, EMC Engineer

Date of Signature 1/15/2025

Signature:



Name & Title: Kristoffer Costa, EMC Technician

Date of Signature 1/15/2025

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

The test sample was received: 12/15/2023

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:	CN293450
Certified Module FCC ID:	N/A
Brief Description	CBMCU/Pump Boss
Model(s) #	1MCU-9391-x001
Firmware version	N/A
Software version	N/A
Serial Number	N/A

Technical Characteristics	
Frequency Range	2400 MHz- 2483.5 MHz
RF O/P Power (Max.)	9.33 dBm
Modulation	FM
Bandwidth & Emission Class	F1D, F1W, F1X
Number of Channels	N/A
Duty Cycle	2.2% (3.3ms per every 150ms period)
Antenna Connector	MCX
Voltage Rating (AC or Batt.)	12VDC

3.2 Configuration of EUT

Band (MHz)	Mode	Number of Ant.
2400 MHz-2483.5 MHz	Code 8	1
2400 MHz-2483.5 MHz	1M	1
2400 MHz-2483.5 MHz	2M	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 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 identified 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	Biconical 1057	Eaton	94455-1	1057	11/19/21	11/18/2024
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	5/4/21	5/3/2024
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	5/31/23	5/30/2026
CHAMBER	CHAMBER	Panashield	3M	N/A	12/29/23	12/29/2025
Receiver	EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	5/27/21	5/26/2024
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	10/13/21	10/12/2024
Signal Generator	Signal Generator HP 8648C	HP	8648C	35537A01679	3/29/19	8/03/2025

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	Timco	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.

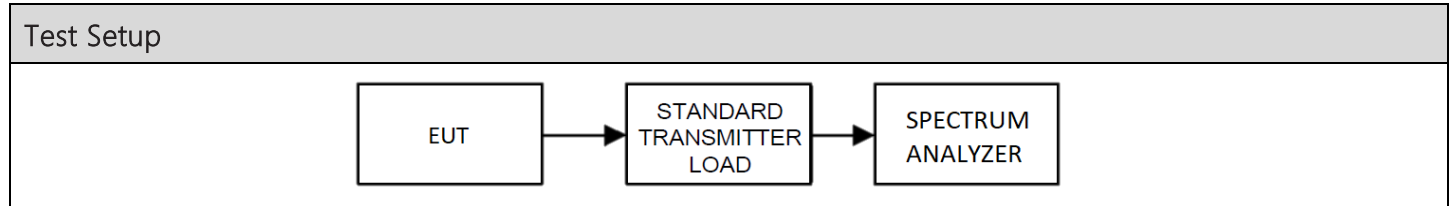
Example:

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 DTS conducted output power

Limits from FCC Part 15.247 (b) (3) and test procedure from ANSI C63.10-2013 section 11.9

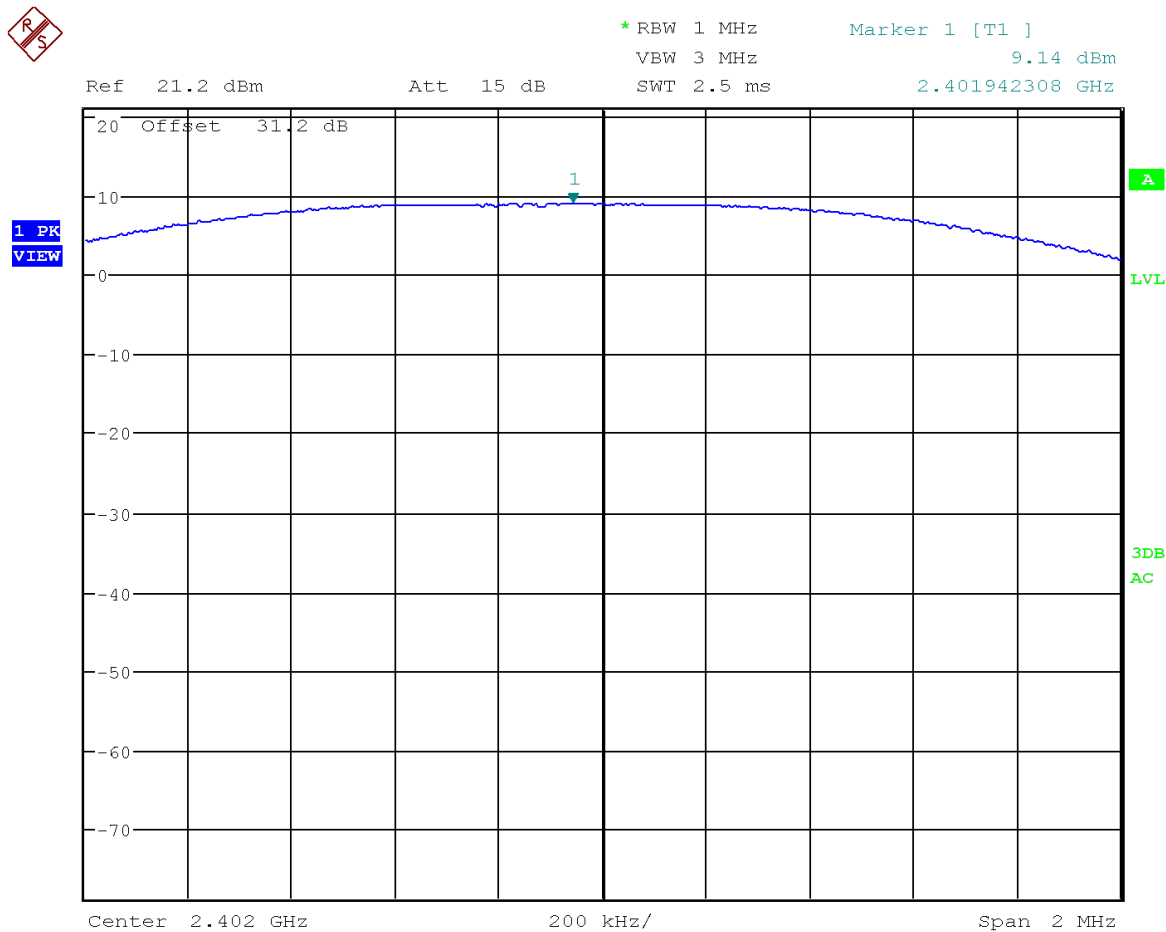


Test Results, Mode 1	
Tuned Frequency (MHz)	Power Output (dBm)
2402	9.14
2440	9.33
2480	9.01

- MAXIMUM Conducted Output Power = 9.33 dBm

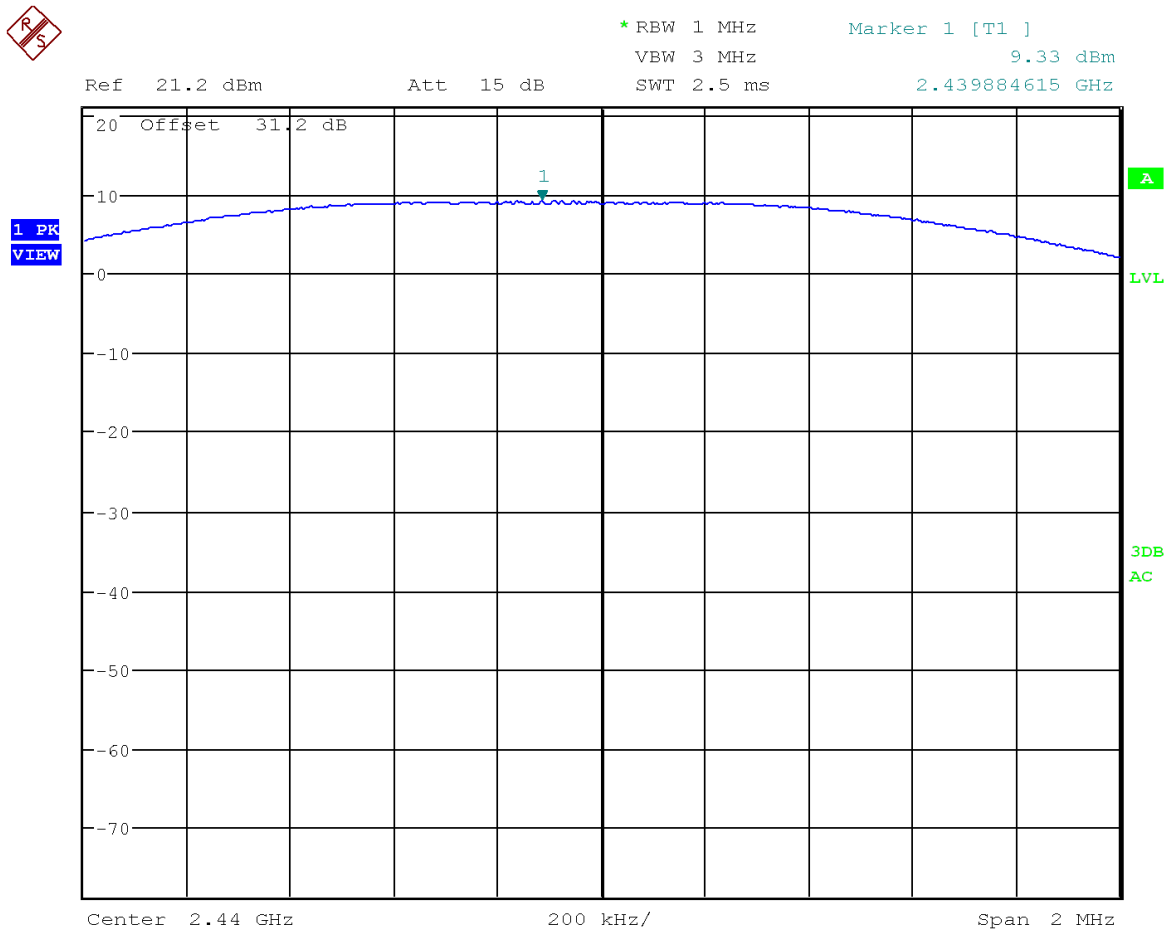
Conducted Output Power, Spectrum Plots

8.1.1 Conducted Output Power, 2402 MHz



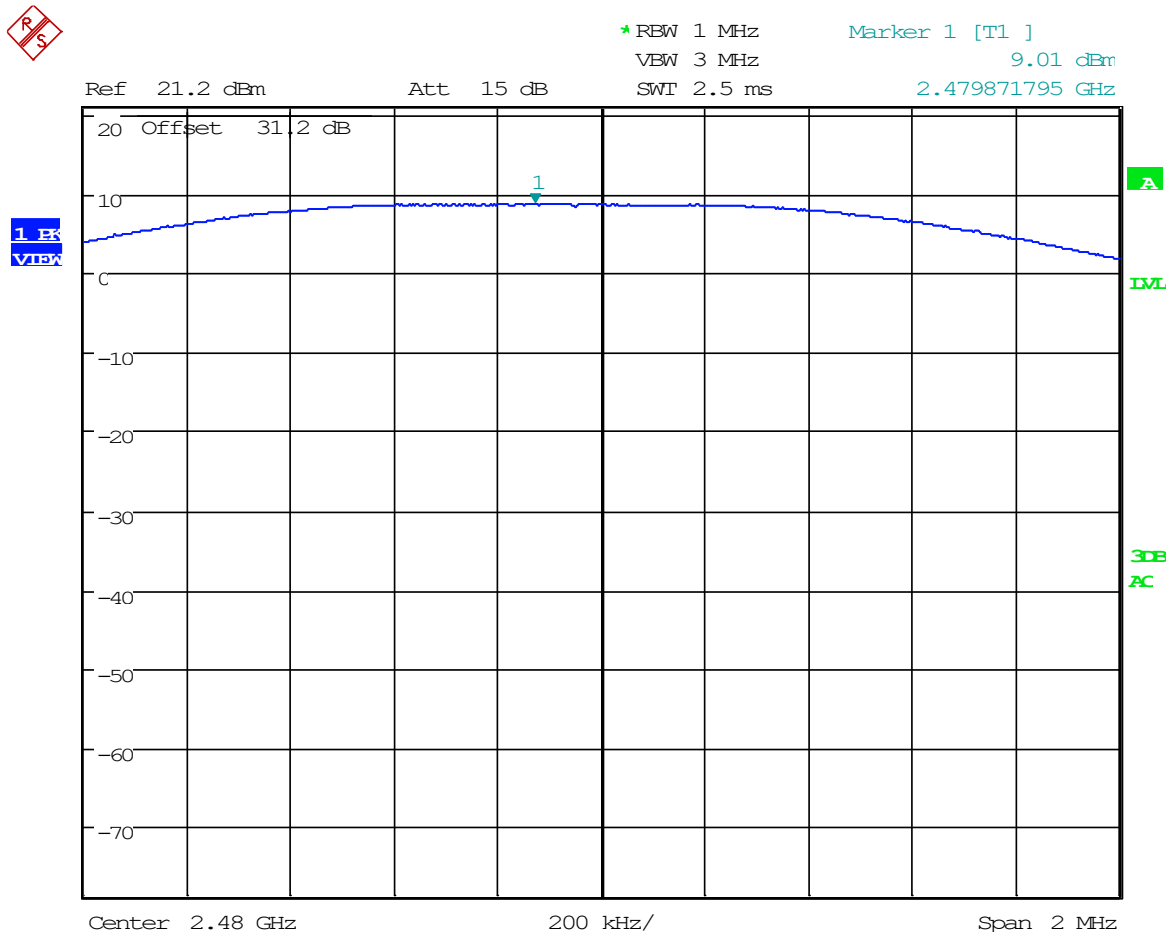
Date: 3.JAN.2024 12:43:42

8.1.2 Conducted Output Power, 2440 MHz



Date: 3.JAN.2024 14:50:21

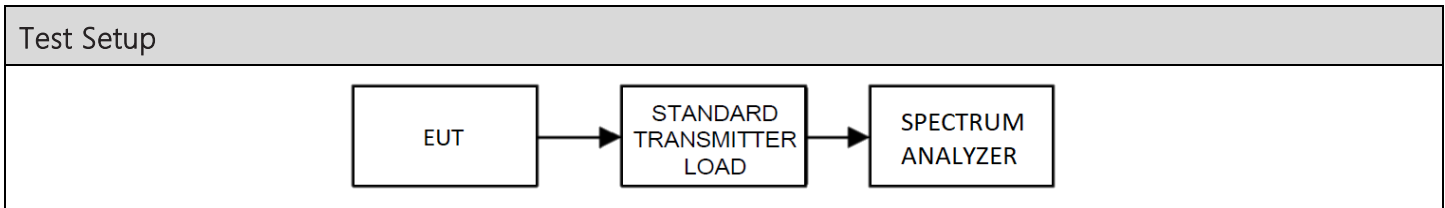
8.1.3 Conducted Output Power, 2480 MHz



Date: 3.JAN.2024 15:04:46

8.2 Occupied Bandwidth

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

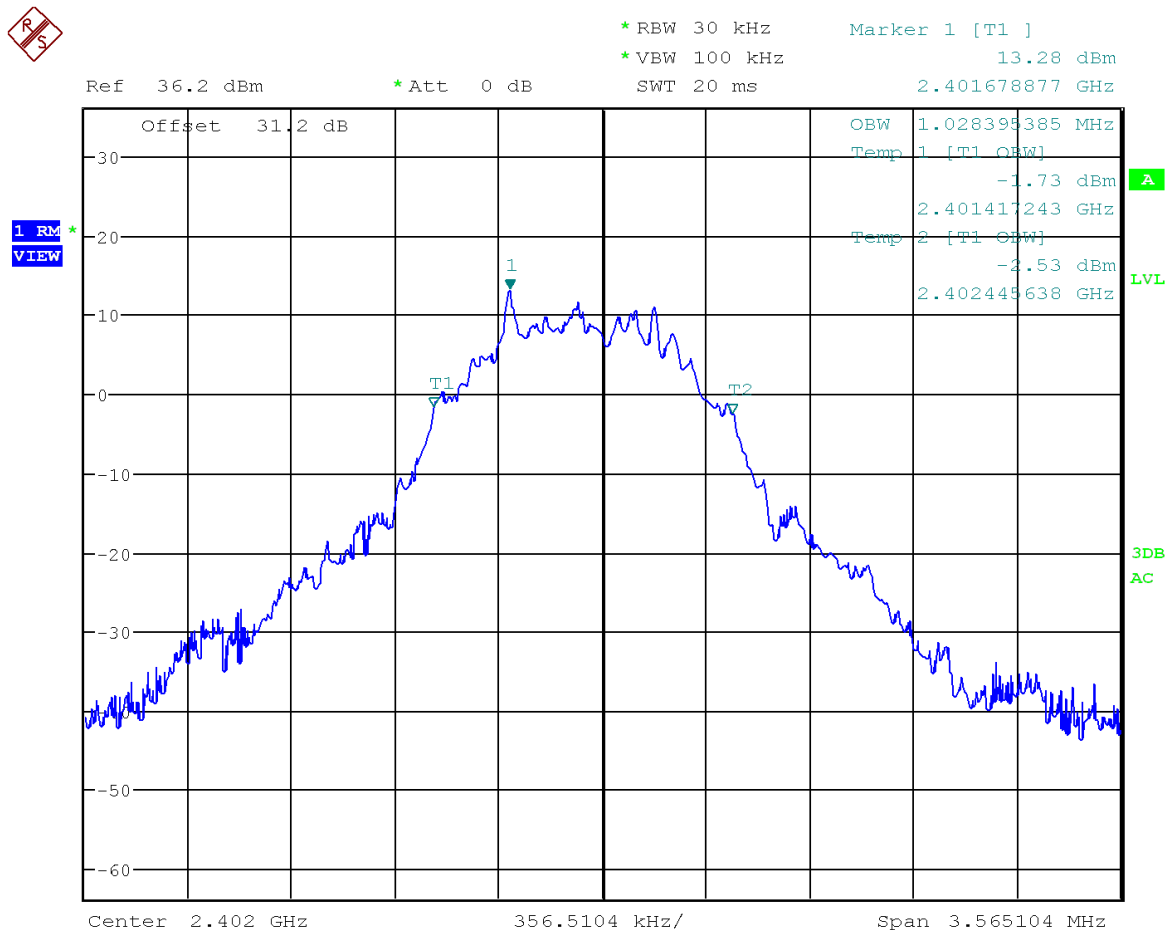


99% BW Test Results

Mode	Tuned Frequency (MHz)	99% BW (MHz)
Code 8	2402	1.028
Code 8	2440	1.028
Code 8	2480	1.022
1M	2402	1.028
1M	2440	1.028
1M	2480	1.029
2M	2402	2.081
2M	2440	2.090
2M	2480	2.071

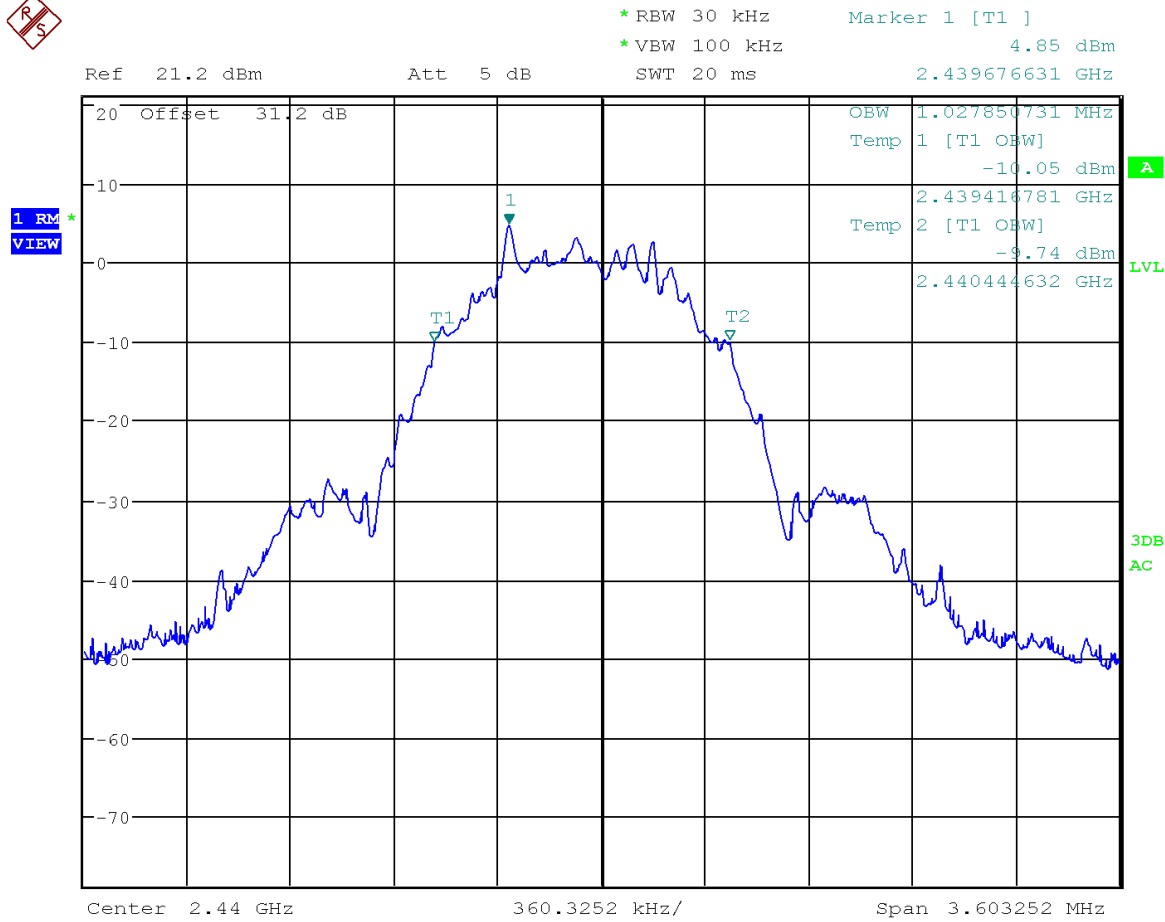
99% Occupied Bandwidth Test Data / Spectrum Plots

8.2.1 99% Bandwidth Plot, Code 8, 2402 MHz



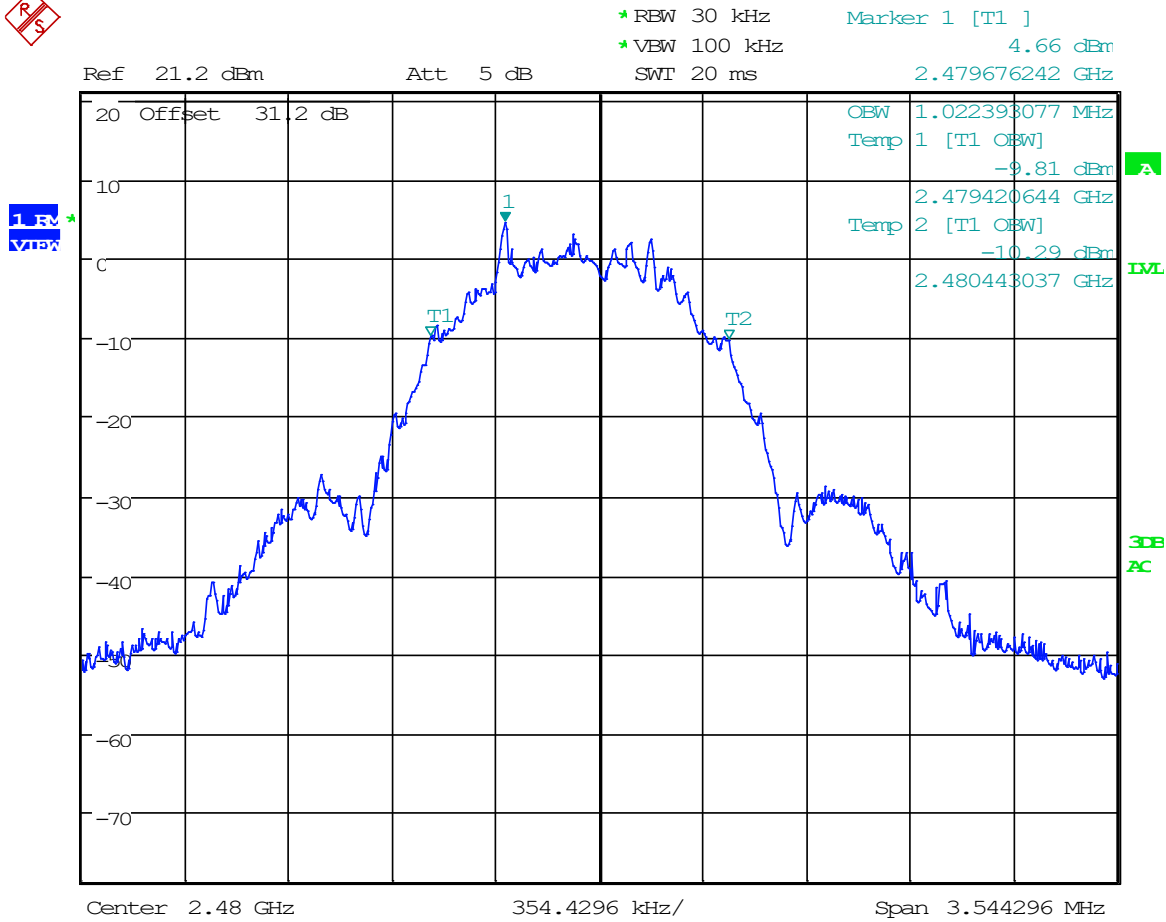
Date: 3.JAN.2024 11:22:26

8.2.2 99% Bandwidth Plot, Code 8, 2440 MHz



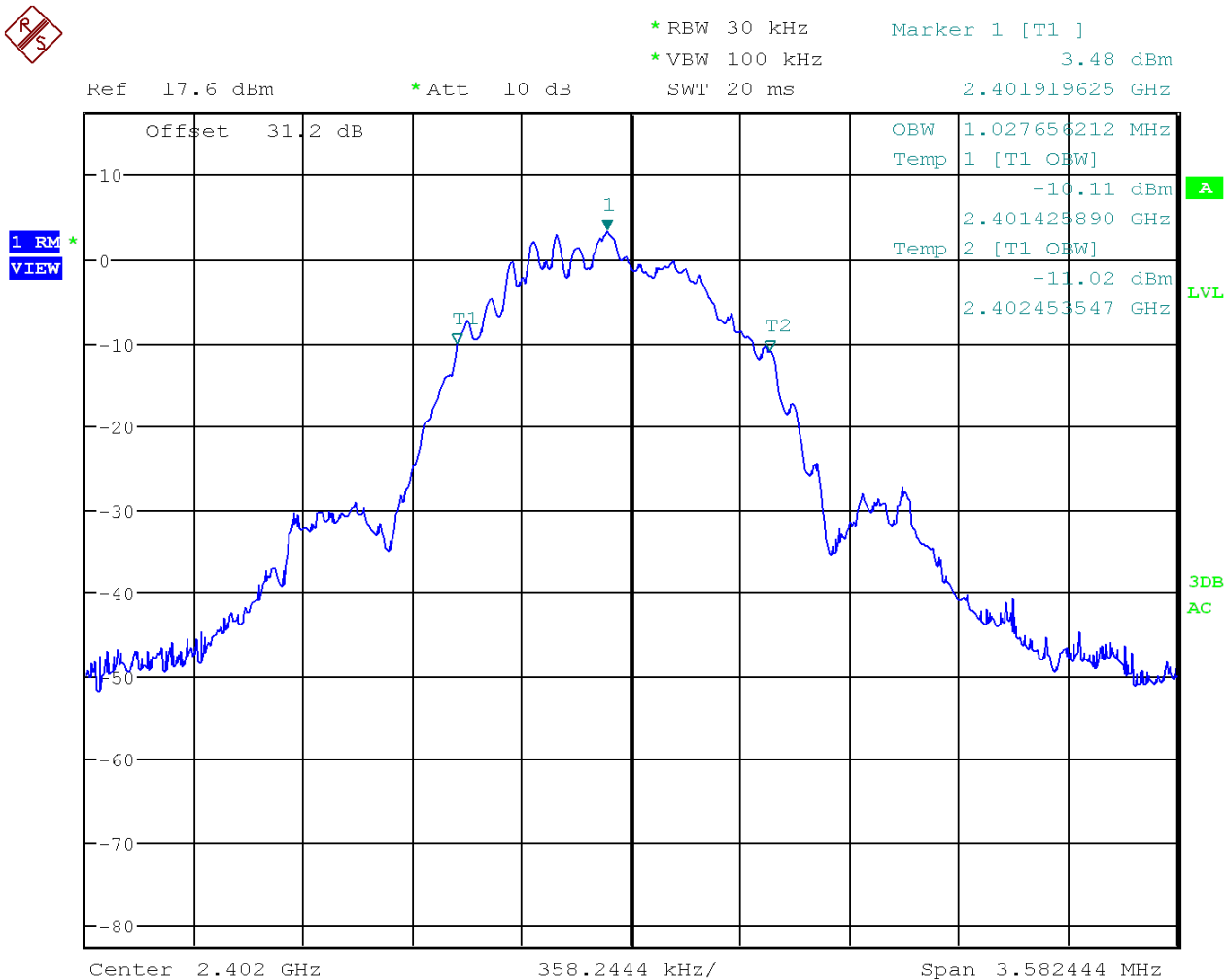
Date: 3.JAN.2024 14:52:41

8.2.3 99% Bandwidth Plot, Code 8, 2480 MHz



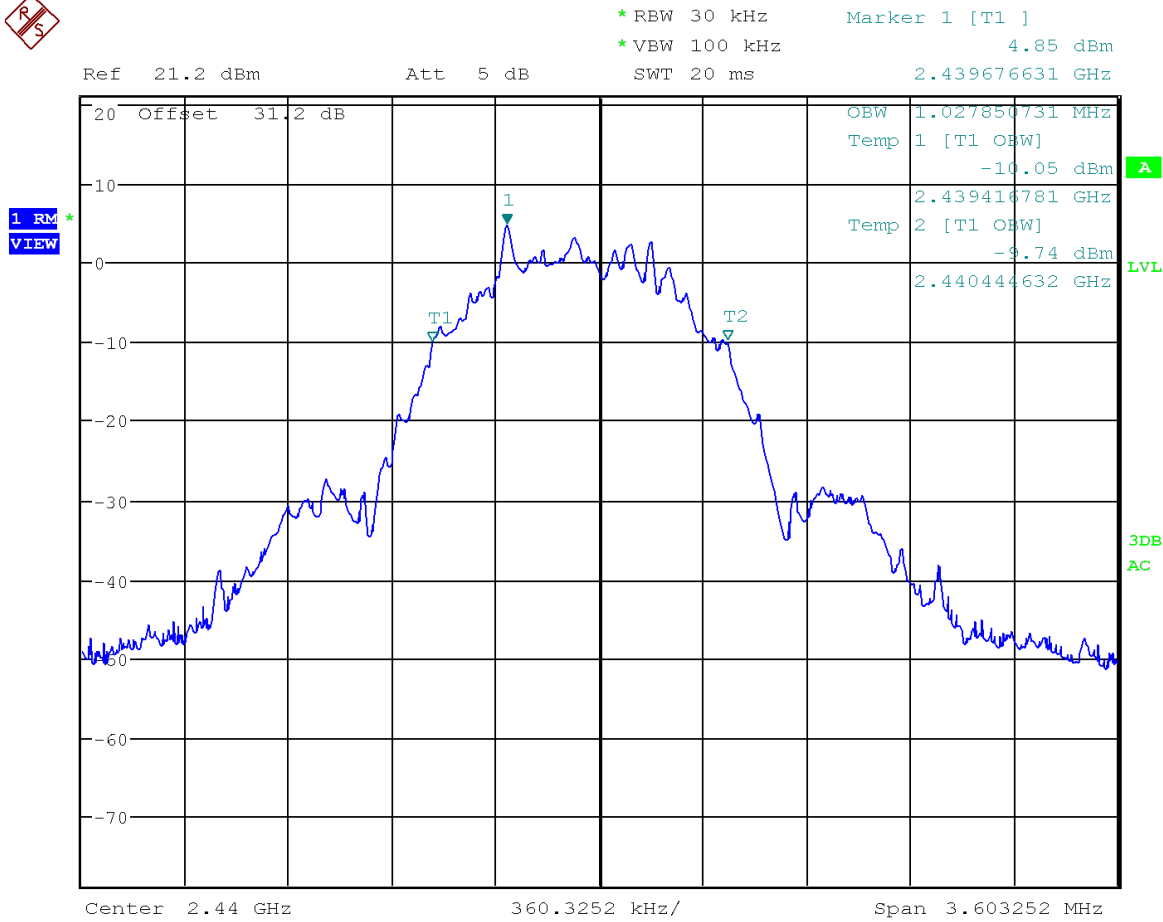
Date: 3.JAN.2024 15:06:30

8.2.4 99% Bandwidth Plot, 1M, 2402 MHz



Date: 3.JAN.2024 16:50:09

8.2.5 99% Bandwidth Plot, 1M, 2440 MHz



Date: 3.JAN.2024 14:52:41

8.2.6 99% Bandwidth Plot, 1M, 2480 MHz



* RBW 30 kHz Marker 1 [T1]
* VBW 100 kHz -29.40 dBm
SWT 20 ms 2.479927772 GHz

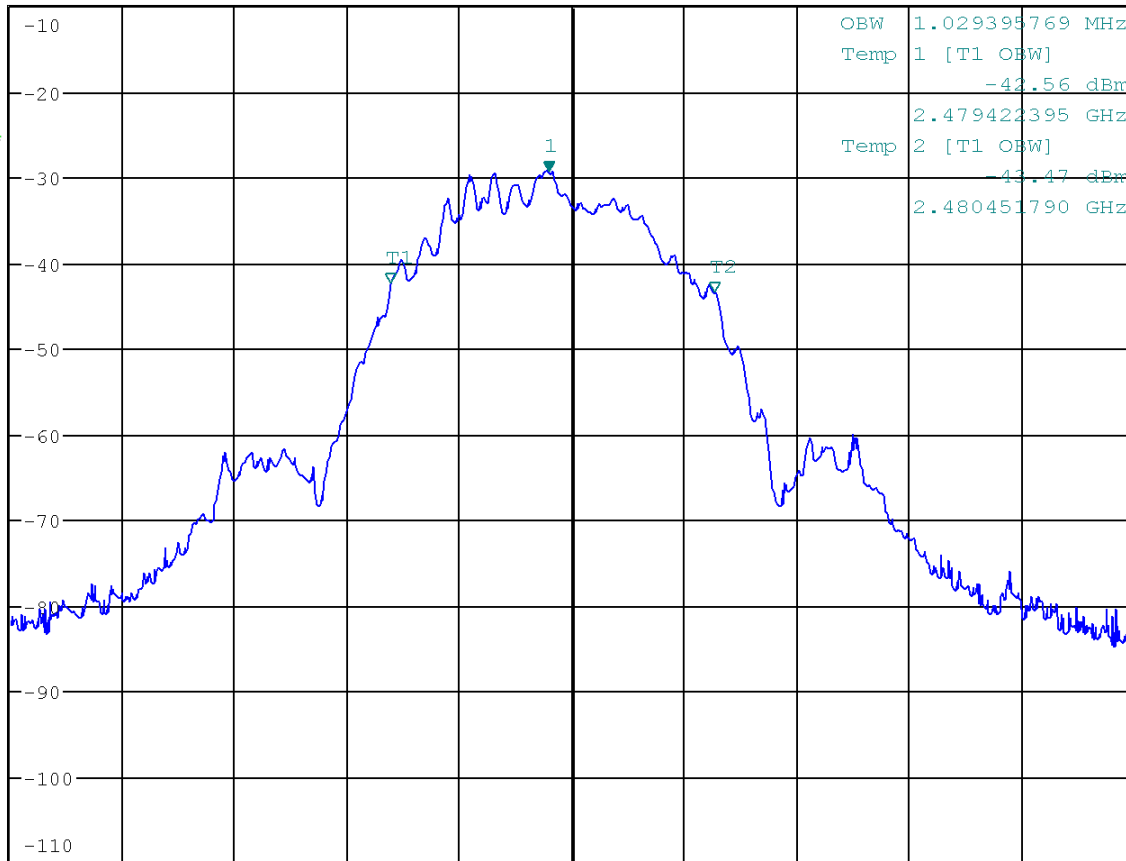
Ref -10 dBm

Att 5 dB

SWT 20 ms

2.479927772 GHz

1 RM
VIEW



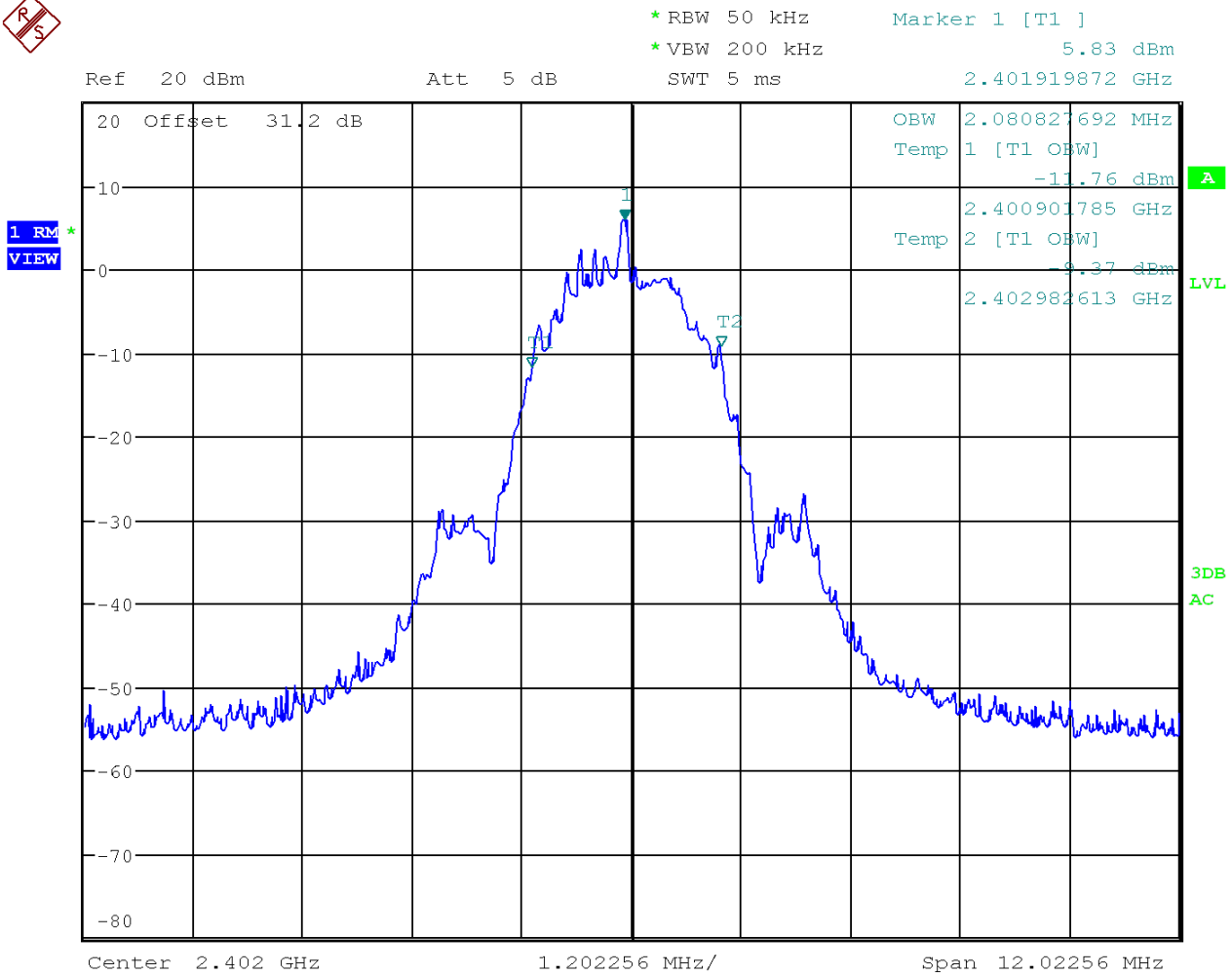
Center 2.48 GHz

356.8572 kHz/

Span 3.568572 MHz

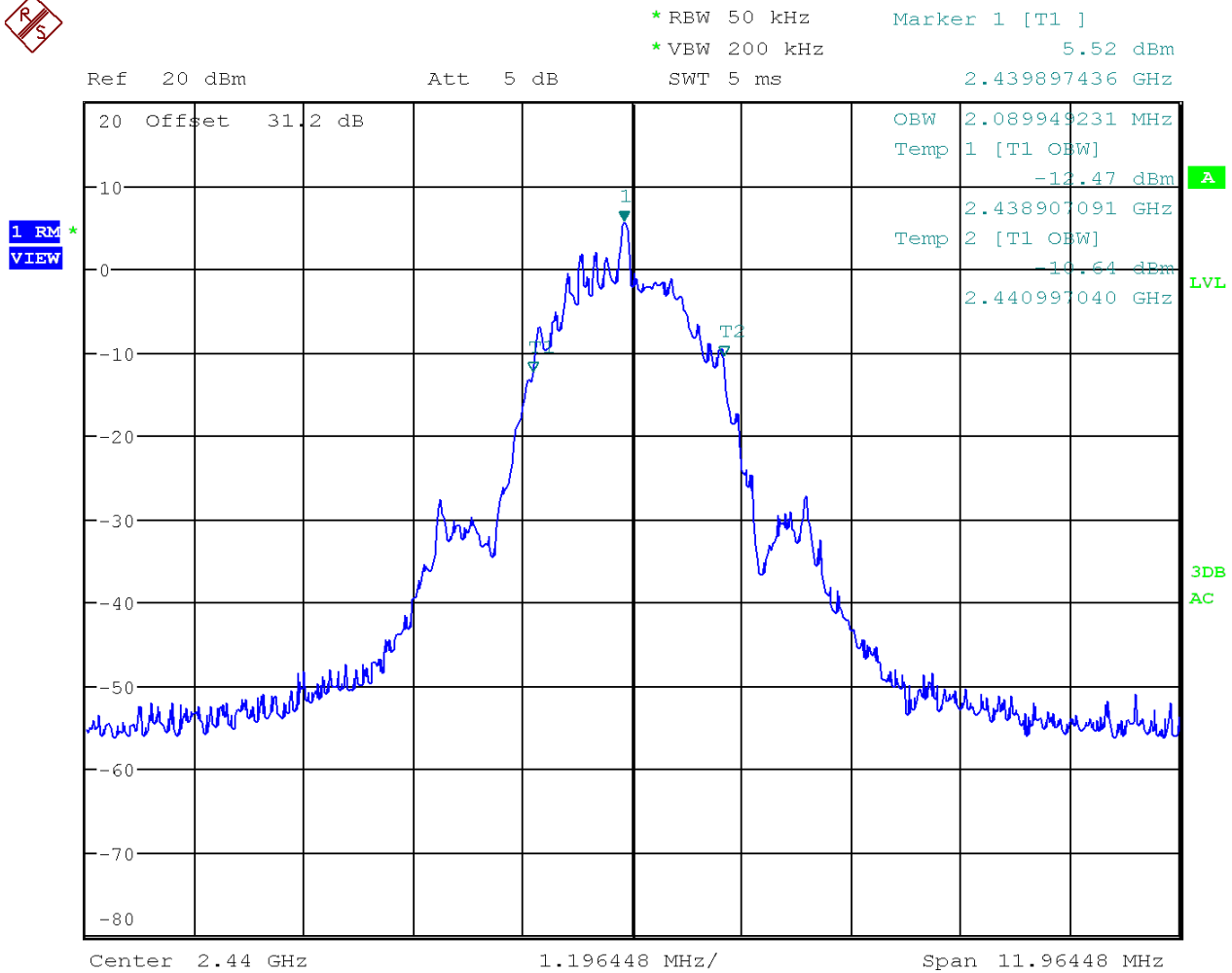
Date: 3.JAN.2024 17:00:37

8.2.7 99% Bandwidth Plot, 2M, 2402 MHz



Date: 3.JAN.2024 17:04:42

8.2.8 99% Bandwidth Plot, 2M, 2440 MHz

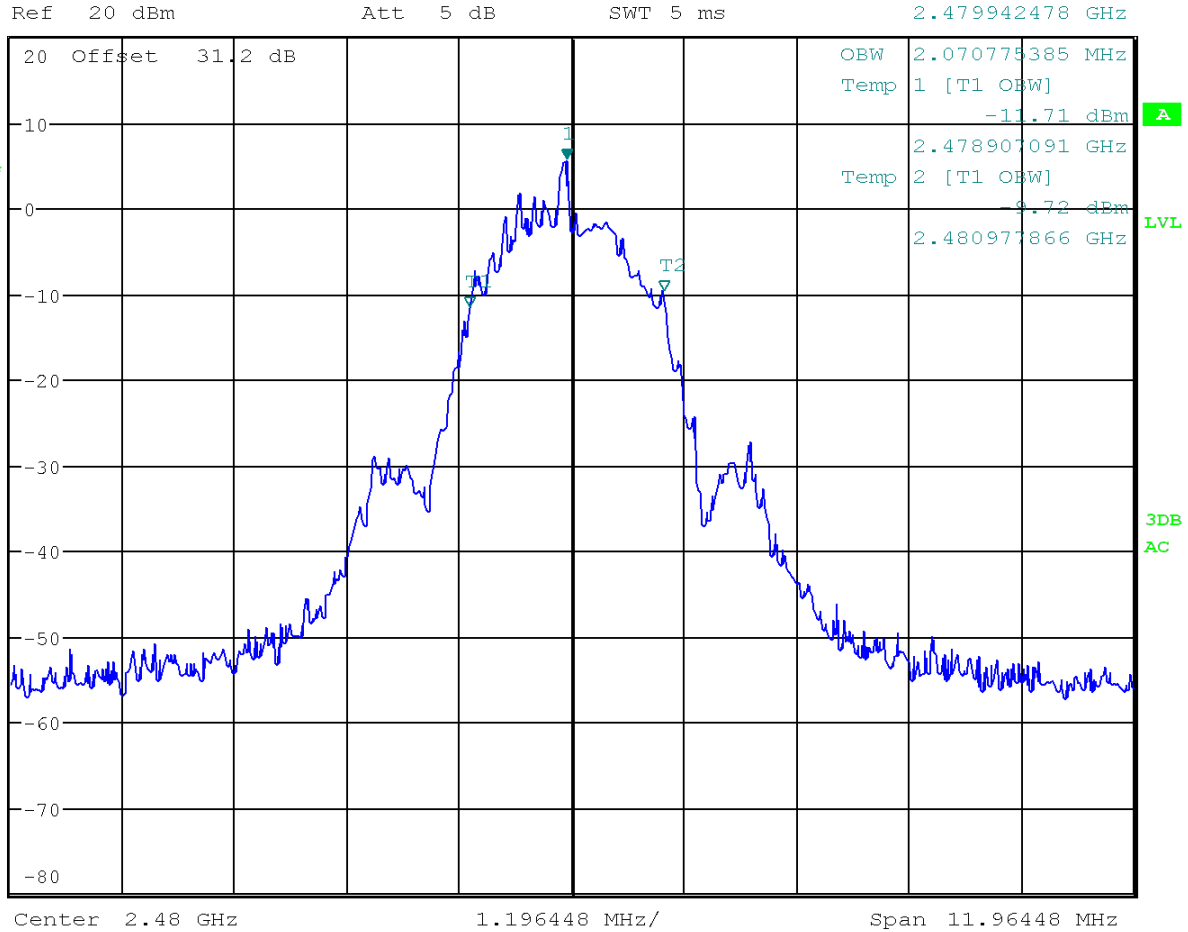


Date: 3.JAN.2024 17:07:49

8.2.9 99% Bandwidth Plot, 2M, 2480 MHz



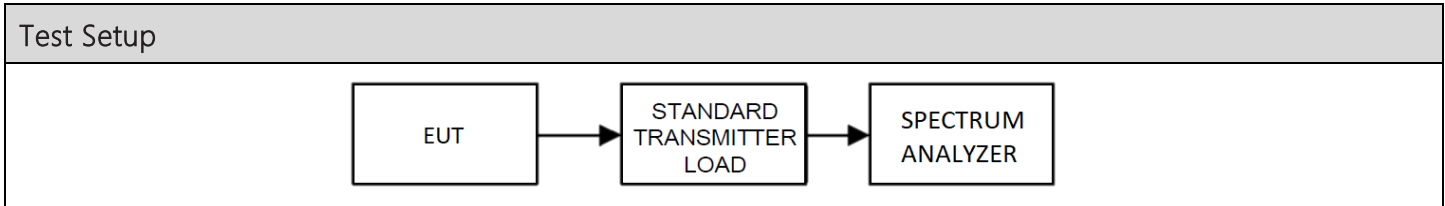
* RBW 50 kHz Marker 1 [T1]
* VBW 200 kHz 5.55 dBm
SWT 5 ms 2.479942478 GHz



Date: 3.JAN.2024 17:12:14

8.3 6dB Bandwidth (DTS BW)

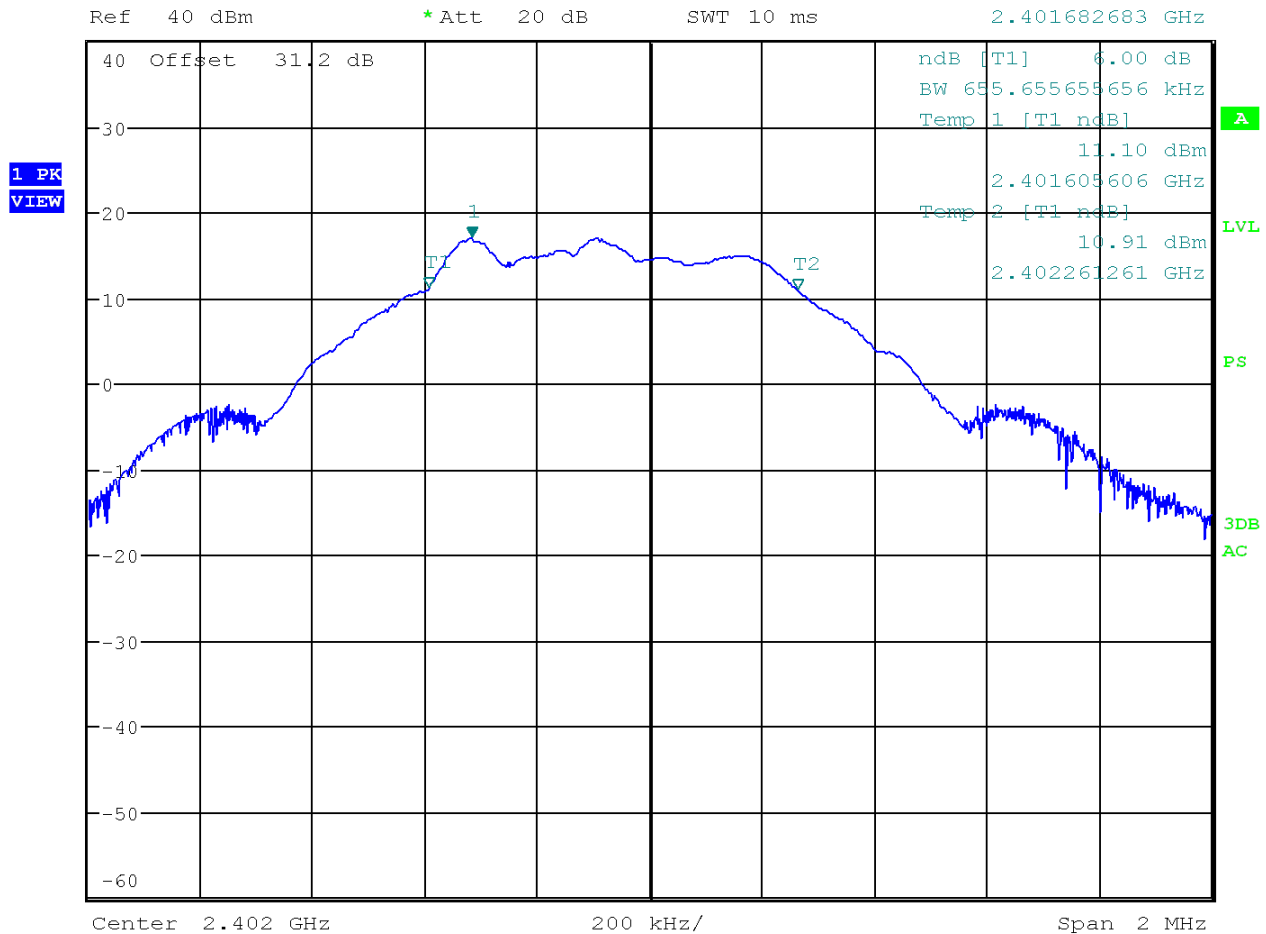
Limits from FCC Part 15.247 (a) (2) and test procedure from ANSI C63.10-2013 section 11.8



Mode	Tuned Frequency (MHz)	6dB Bandwidth (DTS BW) (kHz)
Code 8	2402	655.655
Code 8	2440	657.657
Code 8	2480	657.657
1M	2402	658.658
1M	2440	7030703
1M	2480	650.650
2M	2402	322.322
2M	2440	699.699
2M	2480	543.543

6dB BW Test Data / Spectrum Plots

8.3.1 6dB Bandwidth (DTS BW), Code 8, 2402 MHz

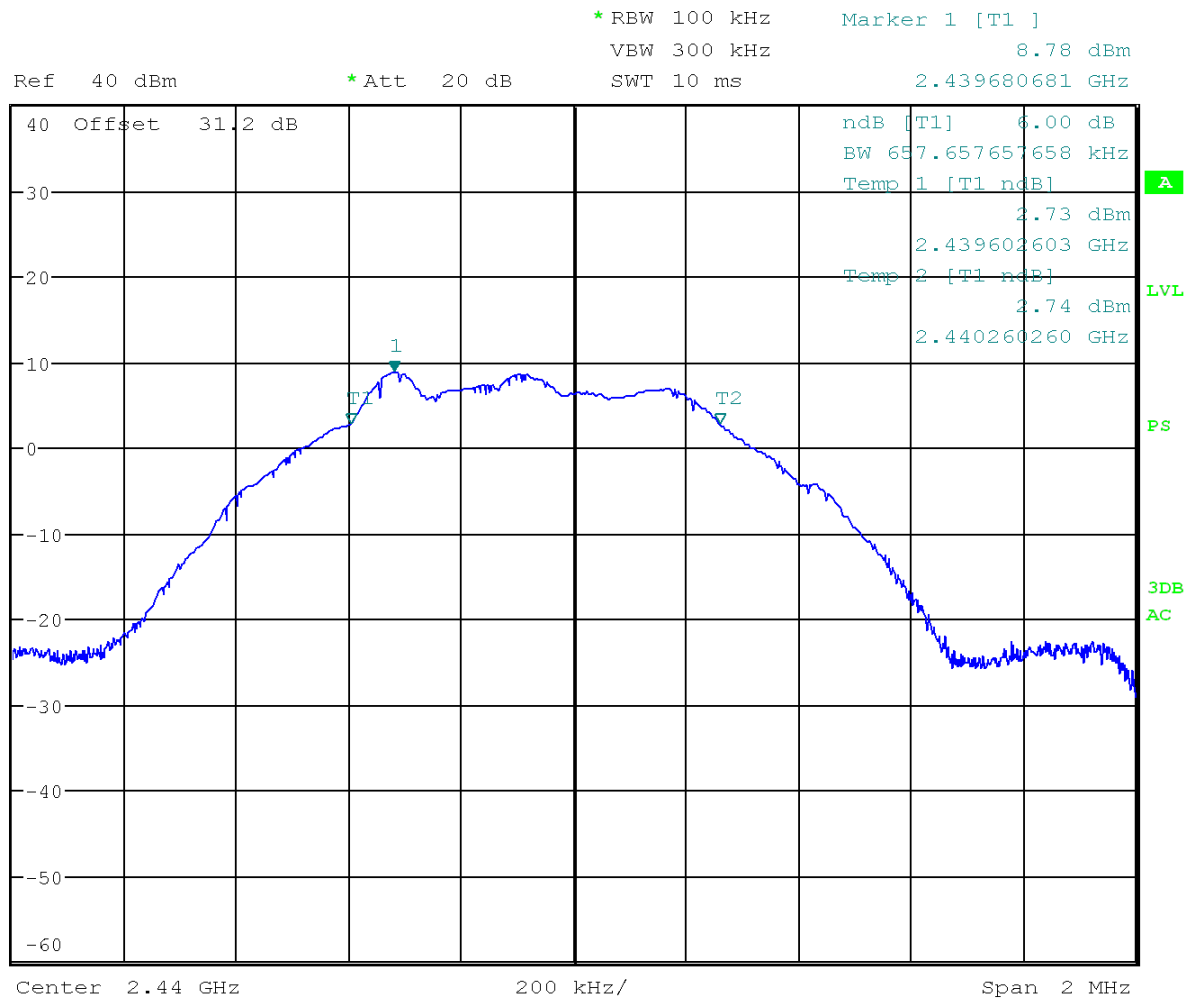


Date: 3.JAN.2024 11:53:04

8.3.2 6dB Bandwidth (DTS BW), Code 8, 2440 MHz



1 PK
VIEW

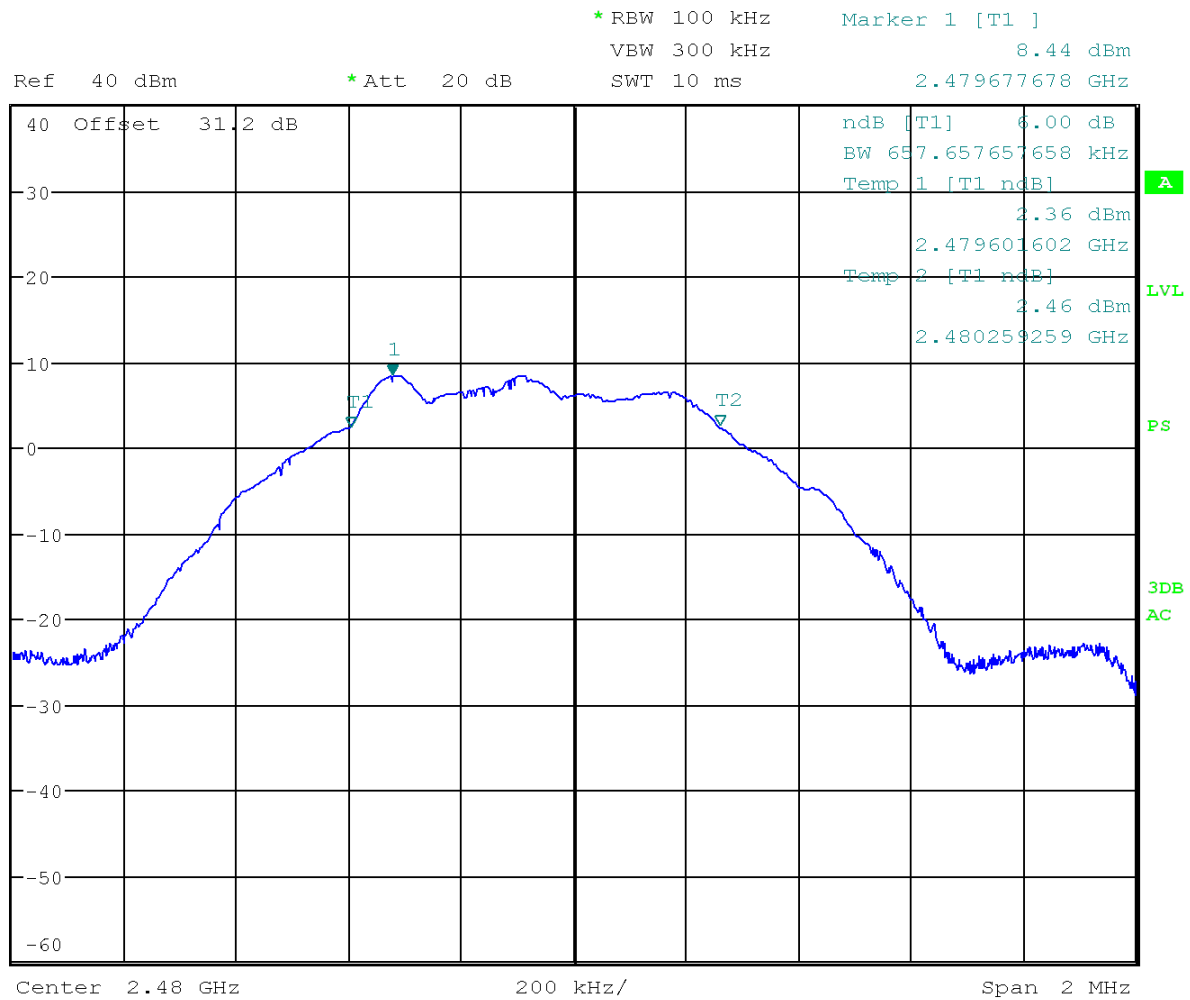


Date: 3.JAN.2024 14:54:36

8.3.3 6dB Bandwidth (DTS BW), Code 8, 2480 MHz



1 PK
VIEW

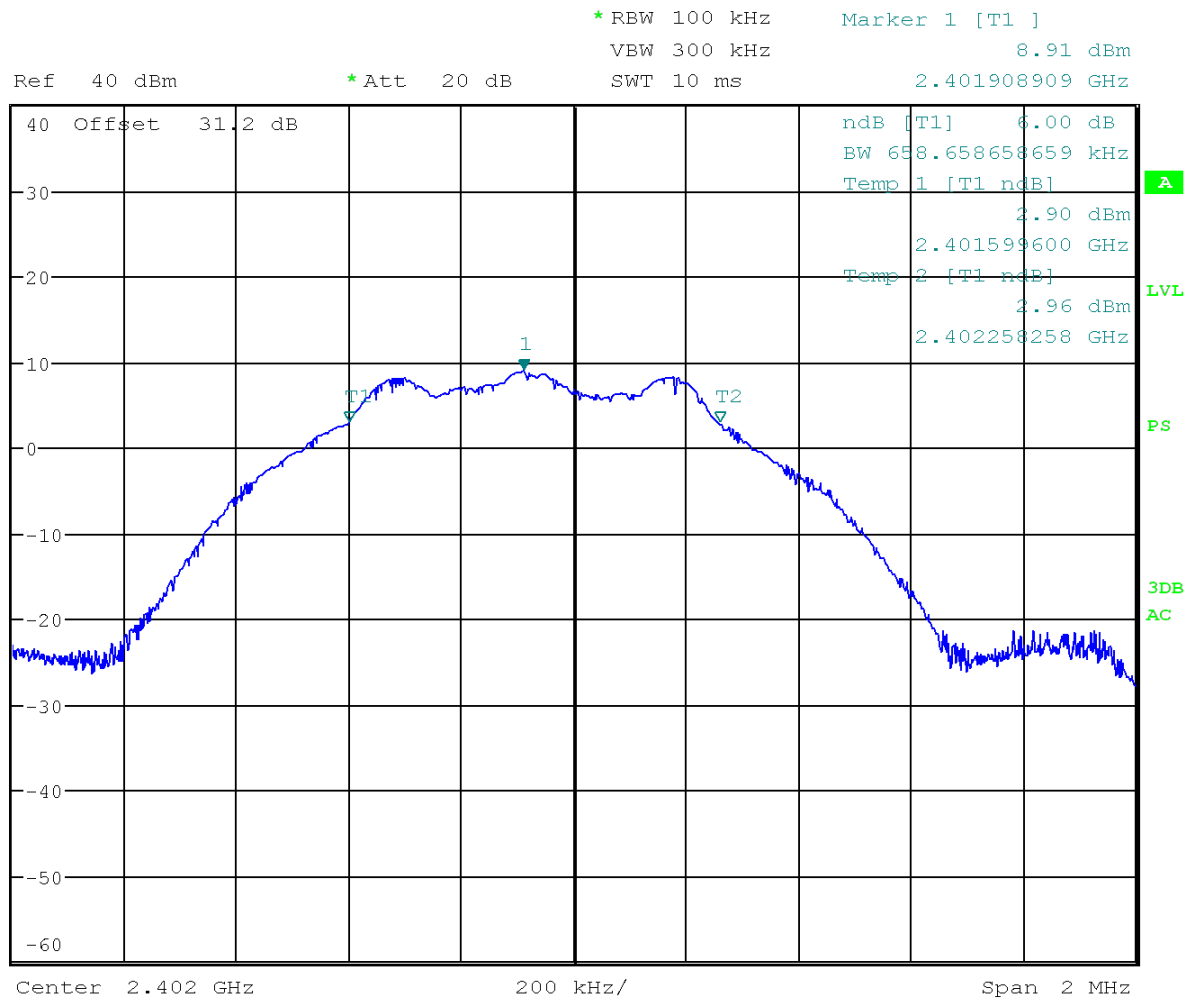


Date: 3.JAN.2024 15:08:39

8.3.4 6dB Bandwidth (DTS BW), 1M, 2402 MHz



1 PK
VIEW

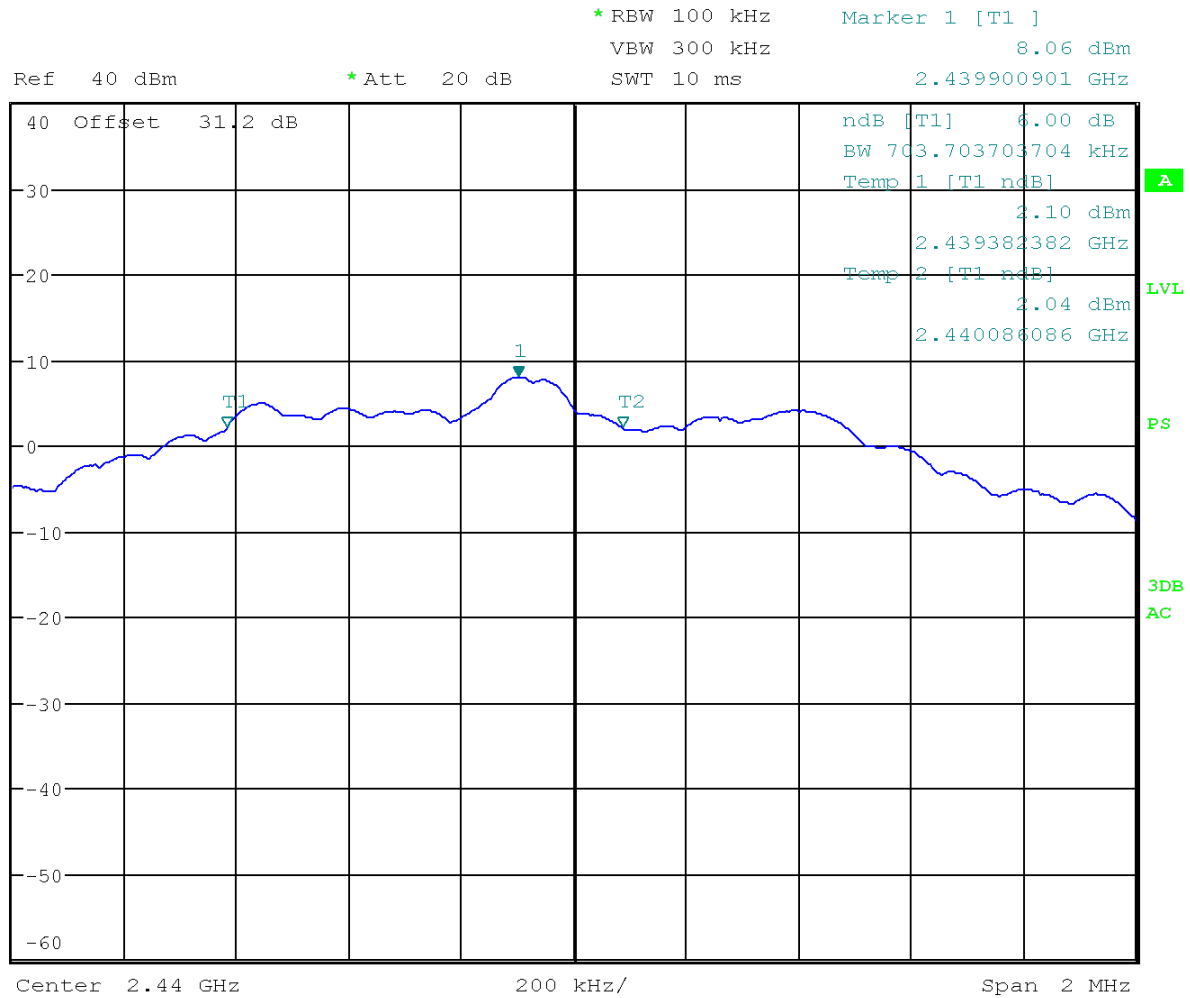


Date: 3.JAN.2024 16:51:10

8.3.5 6dB Bandwidth (DTS BW), 1M, 2440 MHz



1 PK
VIEW

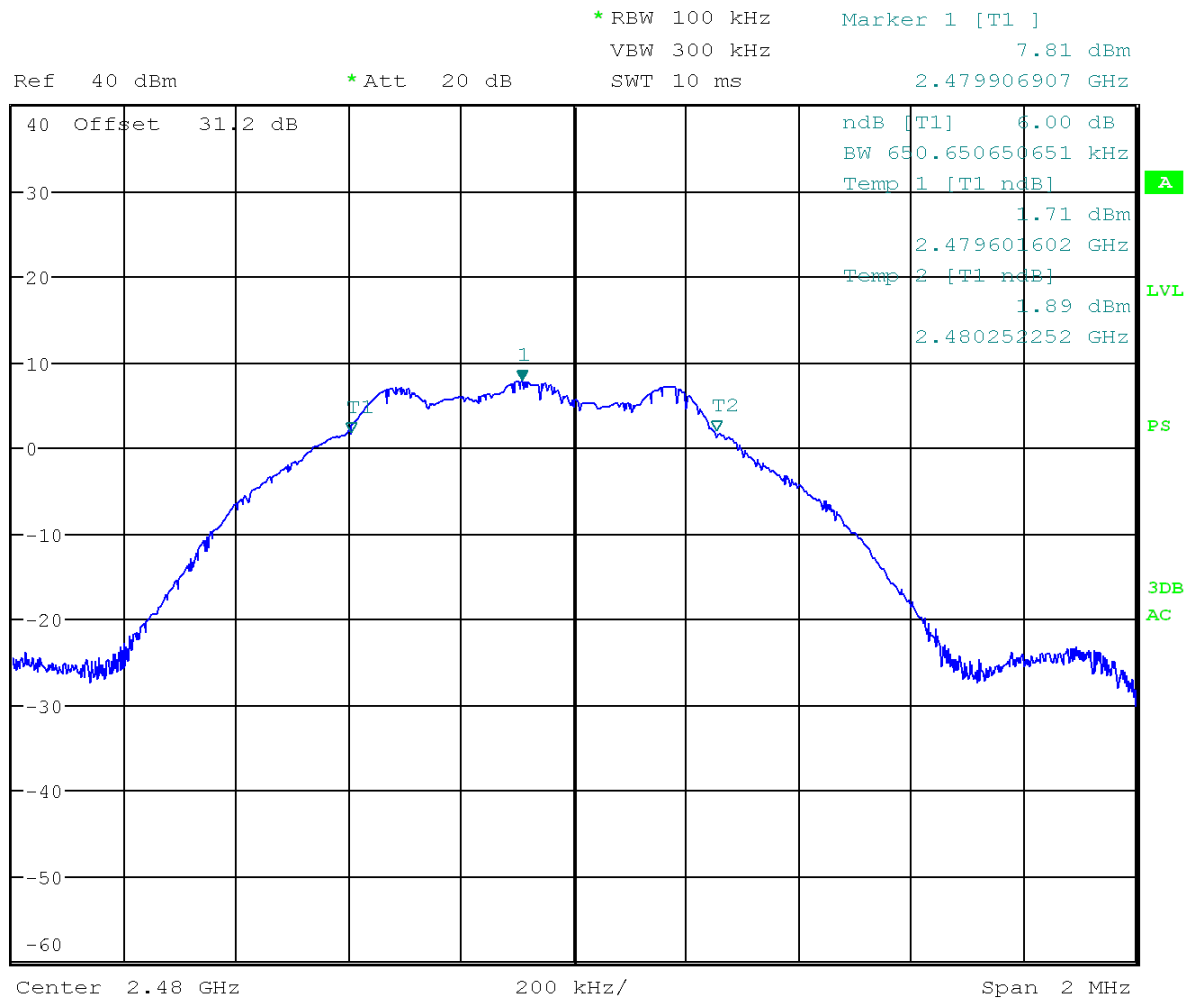


Date: 3.JAN.2024 16:55:24

8.3.6 6dB Bandwidth (DTS BW), 1M, 2480 MHz



1 PK
VIEW

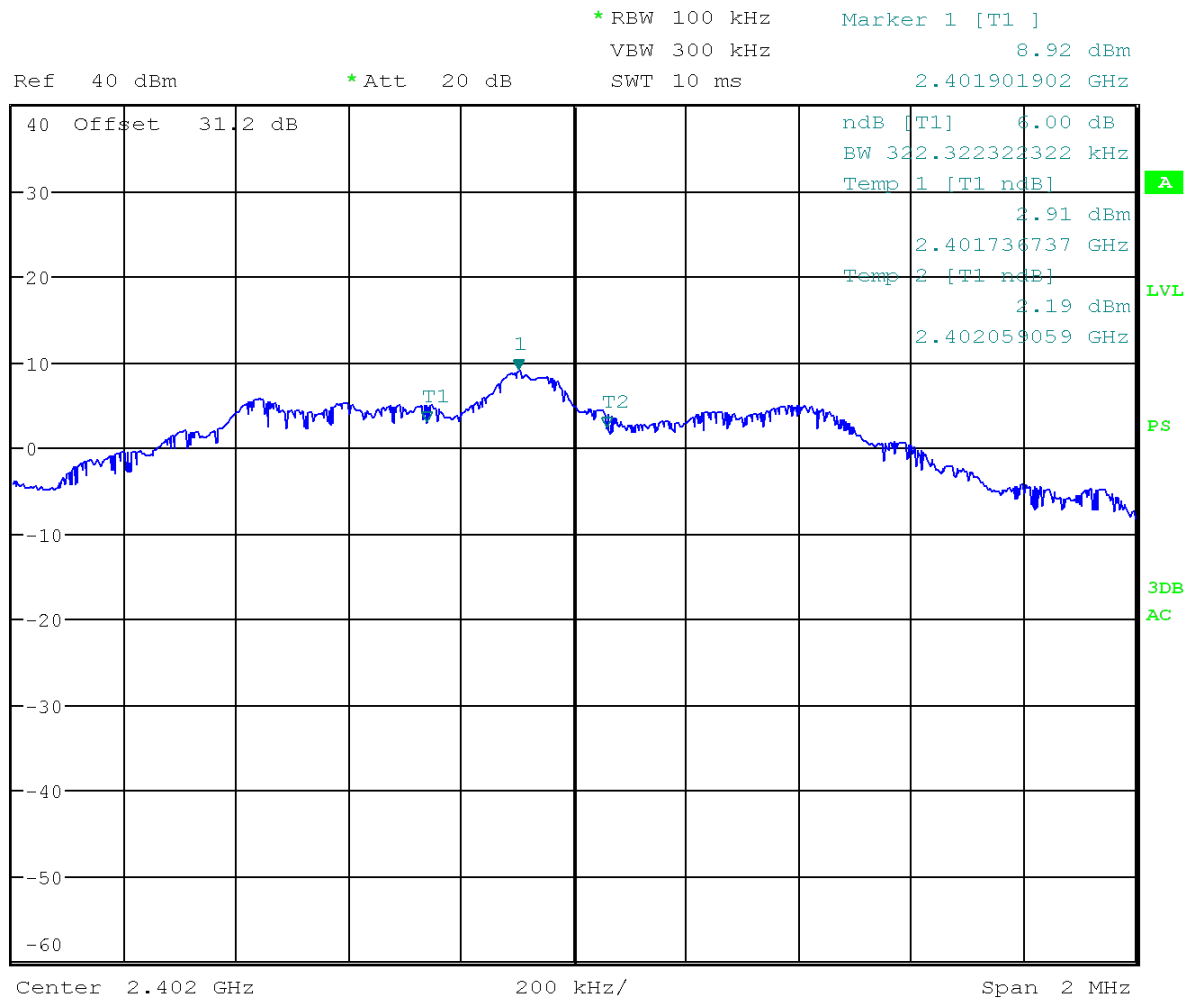


Date: 3.JAN.2024 17:01:26

8.3.7 6dB Bandwidth (DTS BW), 2M, 2402 MHz



1 PK
VIEW

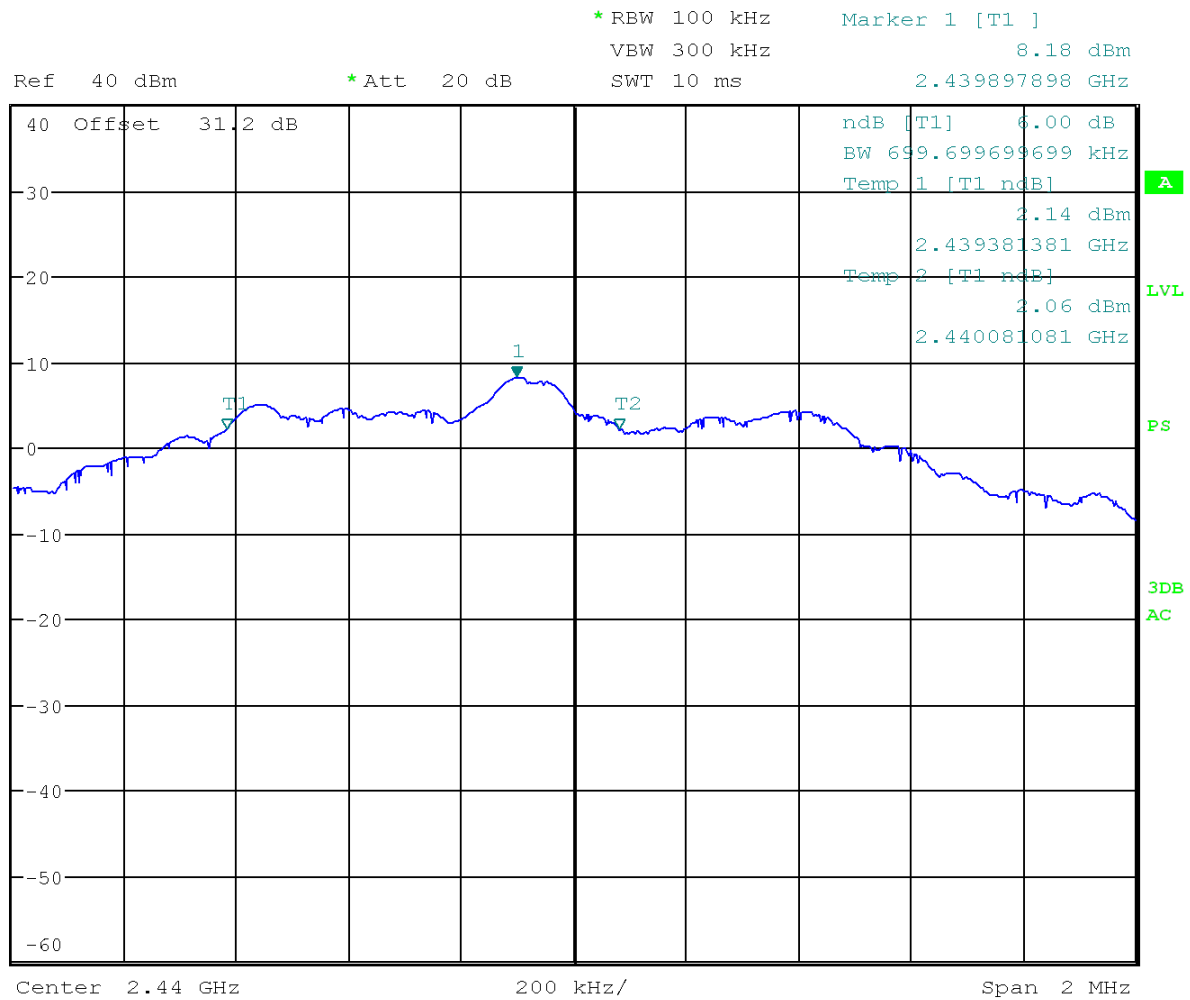


Date: 3.JAN.2024 17:05:34

8.3.8 6dB Bandwidth (DTS BW), 2M, 2440 MHz



1 PK
VIEW

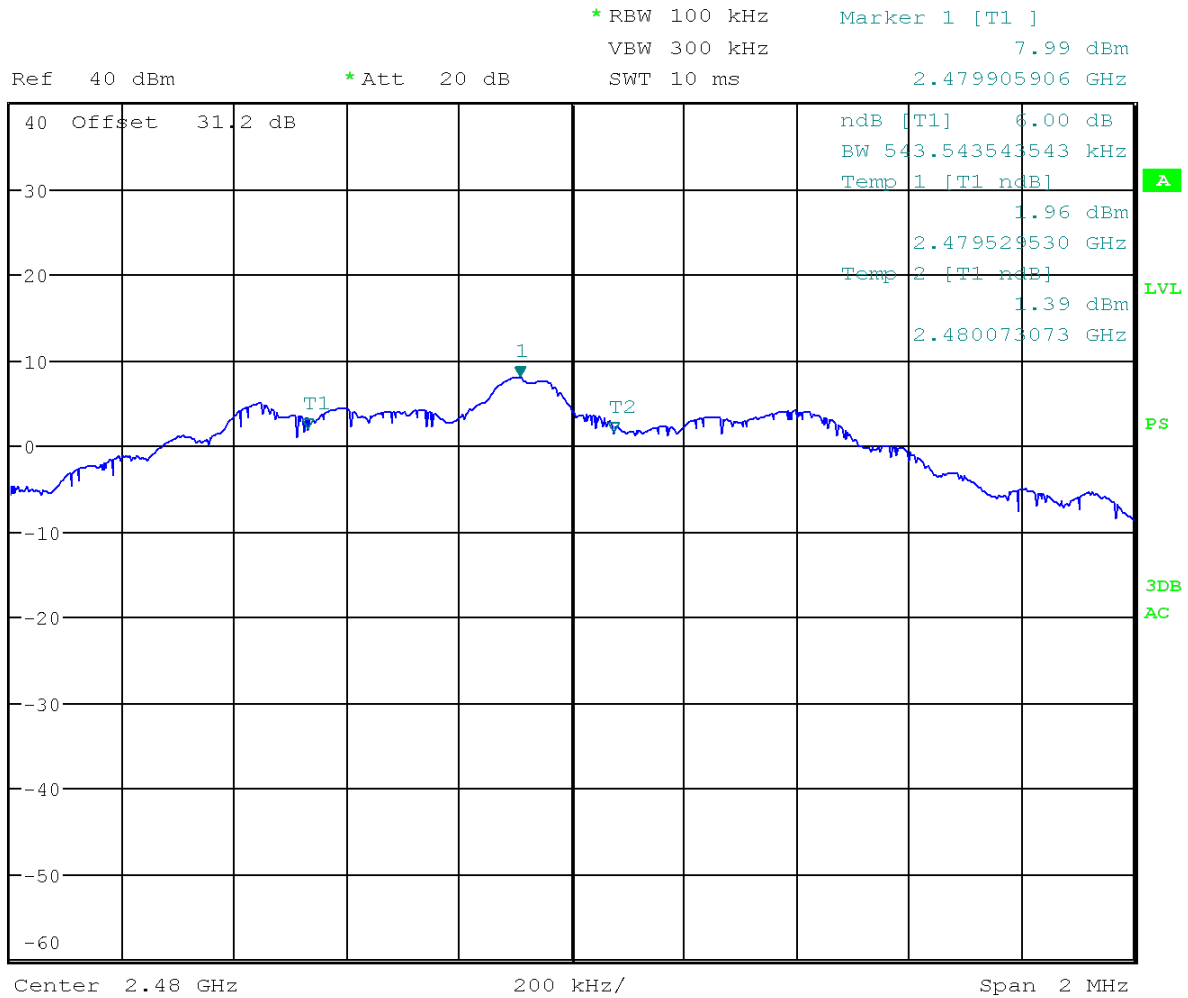


Date: 3.JAN.2024 17:08:33

8.3.9 6dB Bandwidth (DTS BW), 2M, 2480 MHz



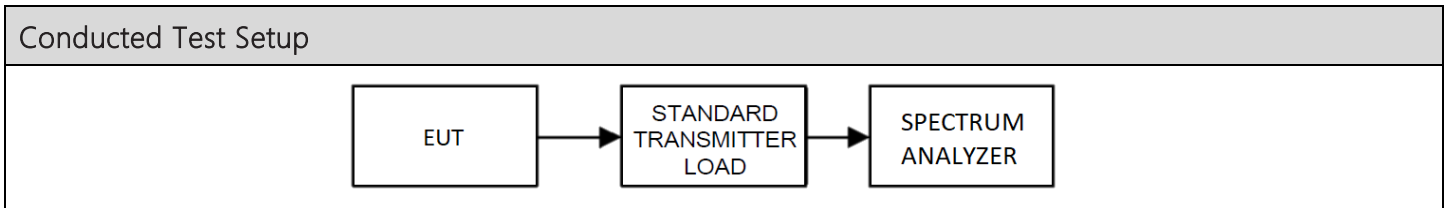
1 PK
VIEW



Date: 3.JAN.2024 17:14:09

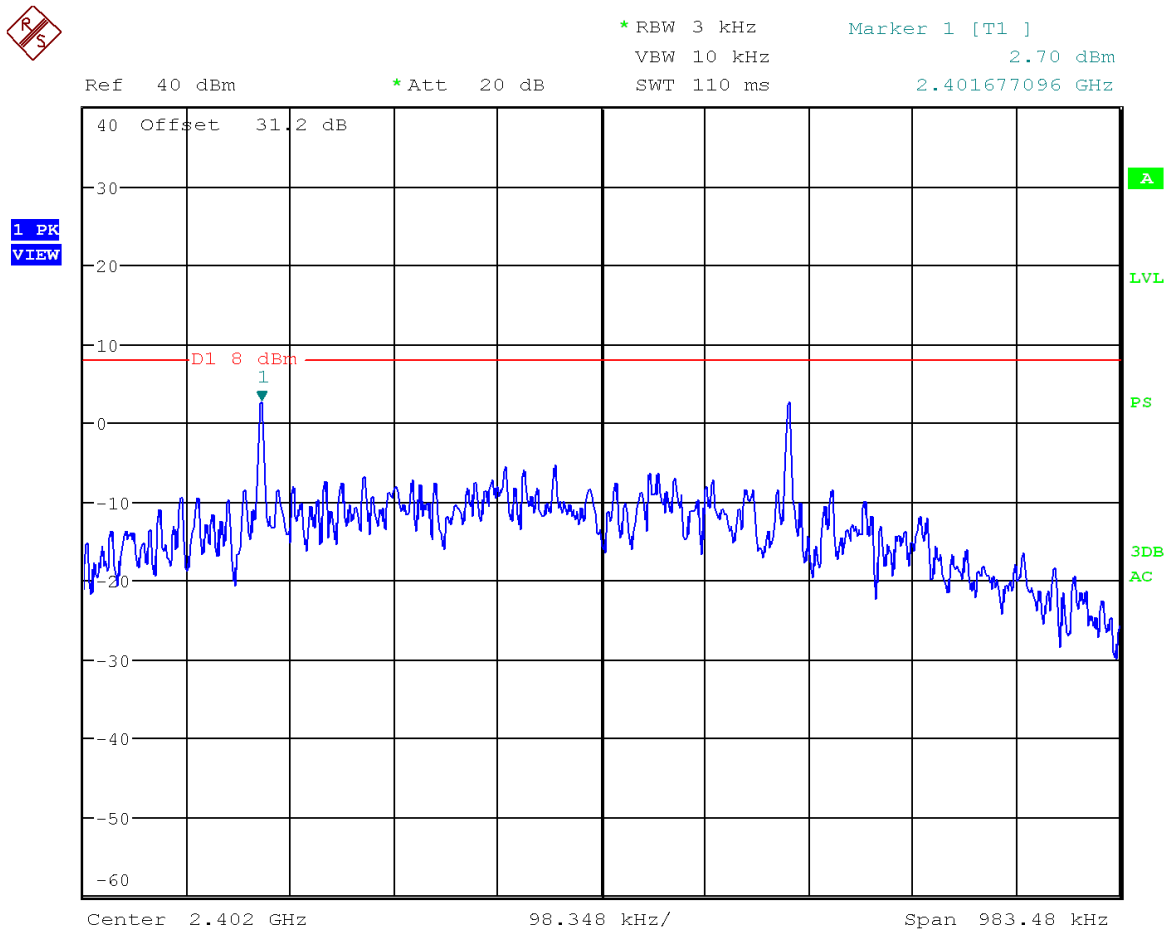
8.4 Power Spectral Density (PSD)

Limits from FCC Part 15.247 (e) and test procedure from ANSI C63.10-2013 section 11.10.



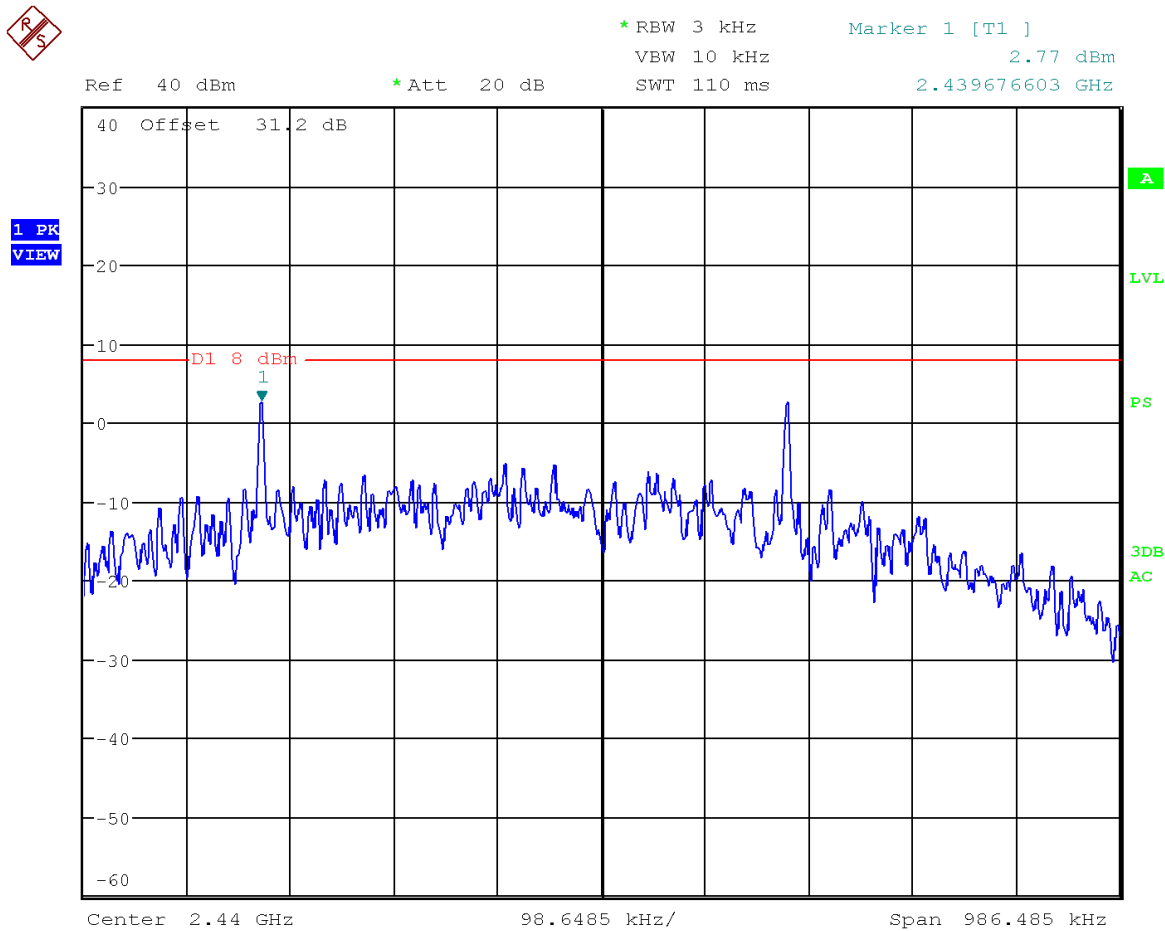
Tuned Frequency (MHz)	PSD Level (dBm)
2402	2.70
2440	2.77
2480	2.38

8.4.1 Power Spectral Density (PSD), 2402 MHz



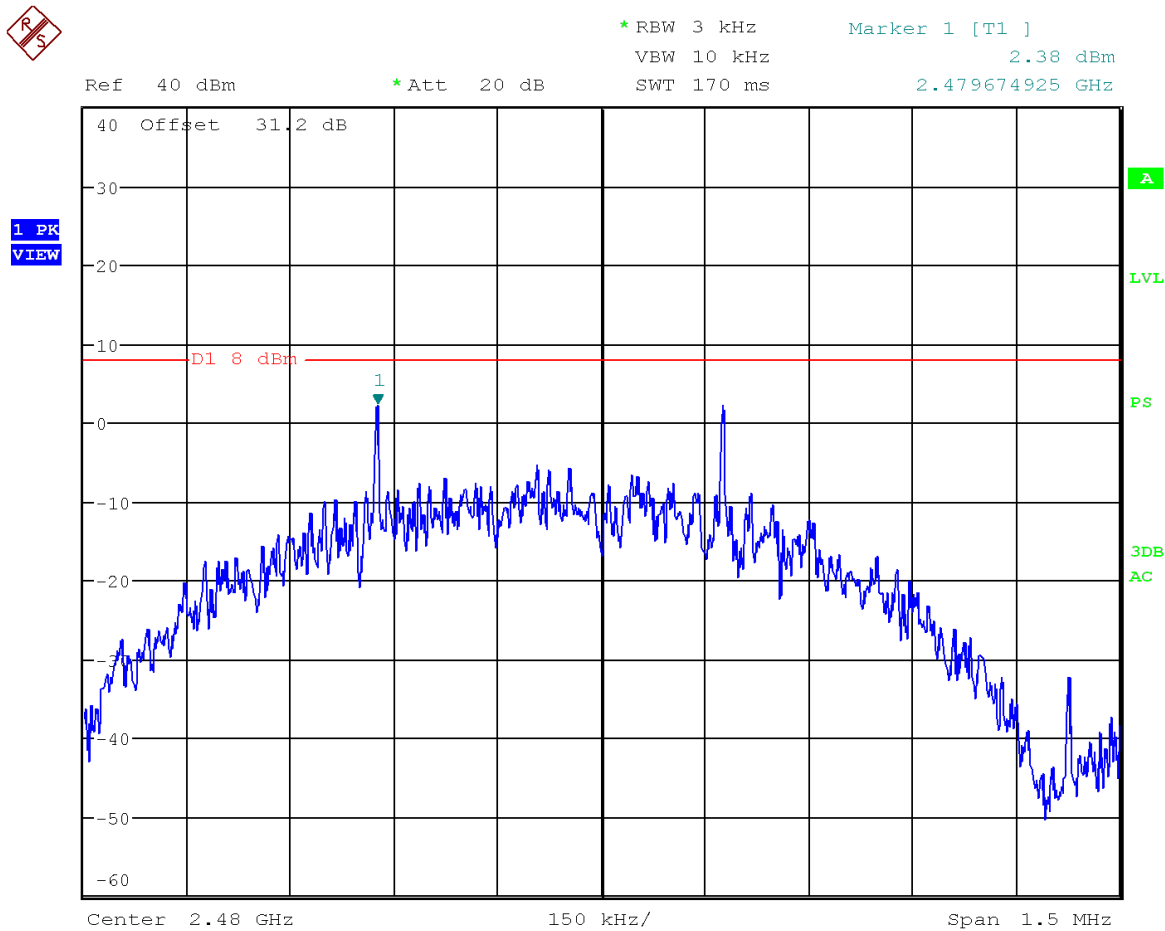
Date: 3.JAN.2024 12:19:28

8.4.2 Power Spectral Density (PSD), 2440 MHz



Date: 3.JAN.2024 14:57:17

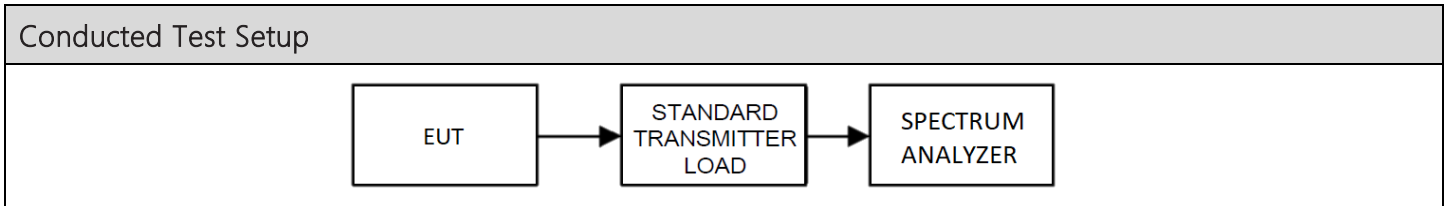
8.4.3 Power Spectral Density (PSD), 2480 MHz



Date: 3.JAN.2024 15:10:21

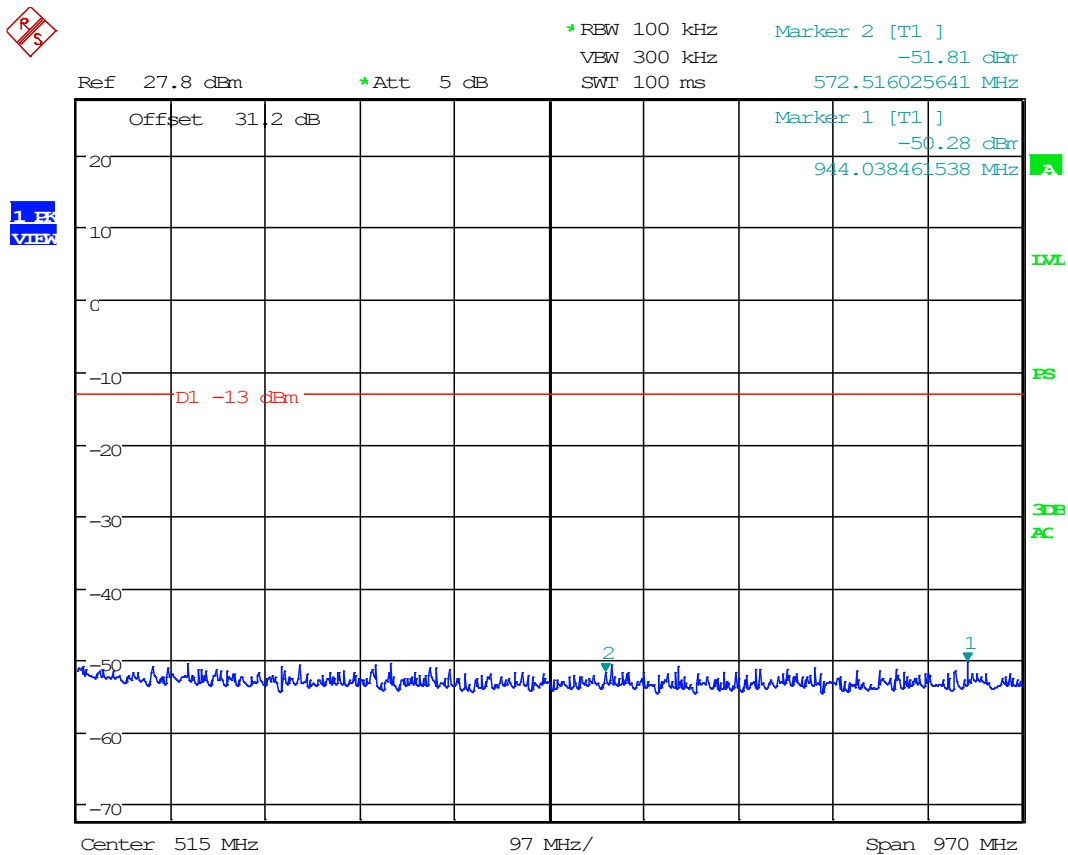
8.5 Emissions in Nonrestricted Frequency Bands (Out of Band)

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.



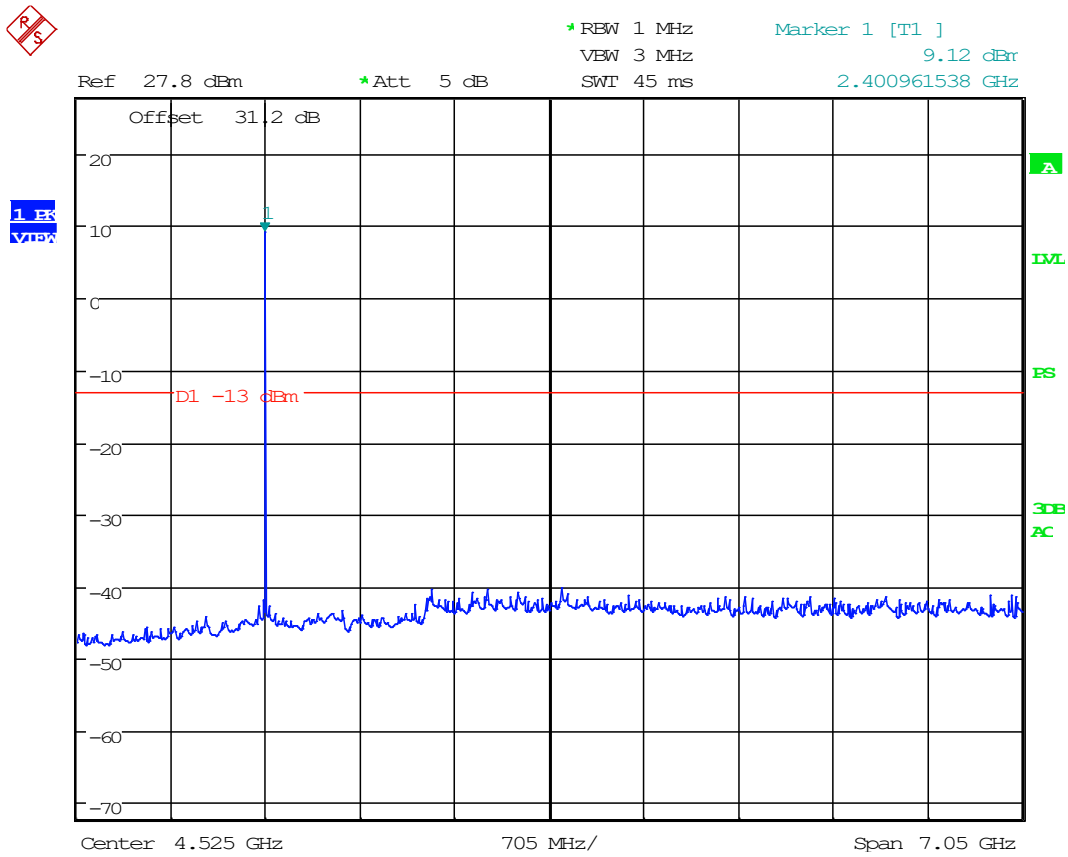
Conducted Emissions in Non-Restricted Bands, Spectrum Plots

8.5.1 Conducted Emissions Plot, Below 1G, 2402 MHz



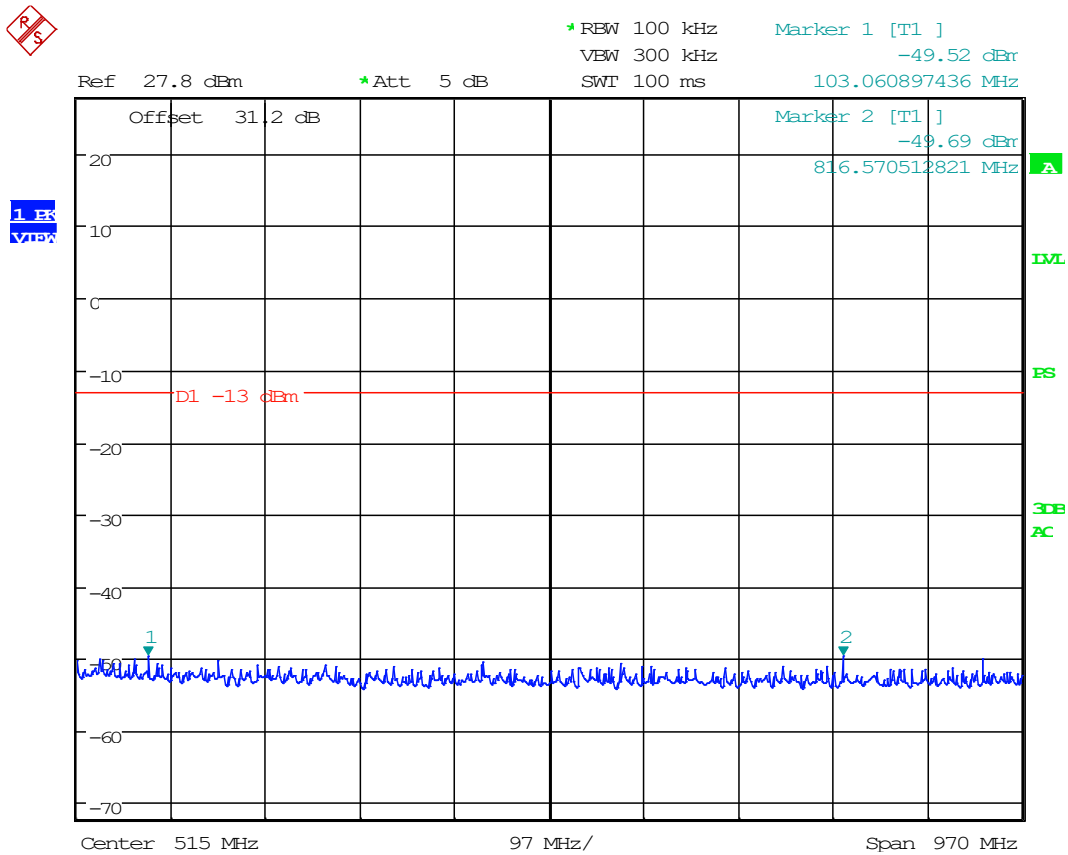
Date: 3.JAN.2024 12:48:22

8.5.2 Conducted Emissions Plot, Above 1G, 2402 MHz



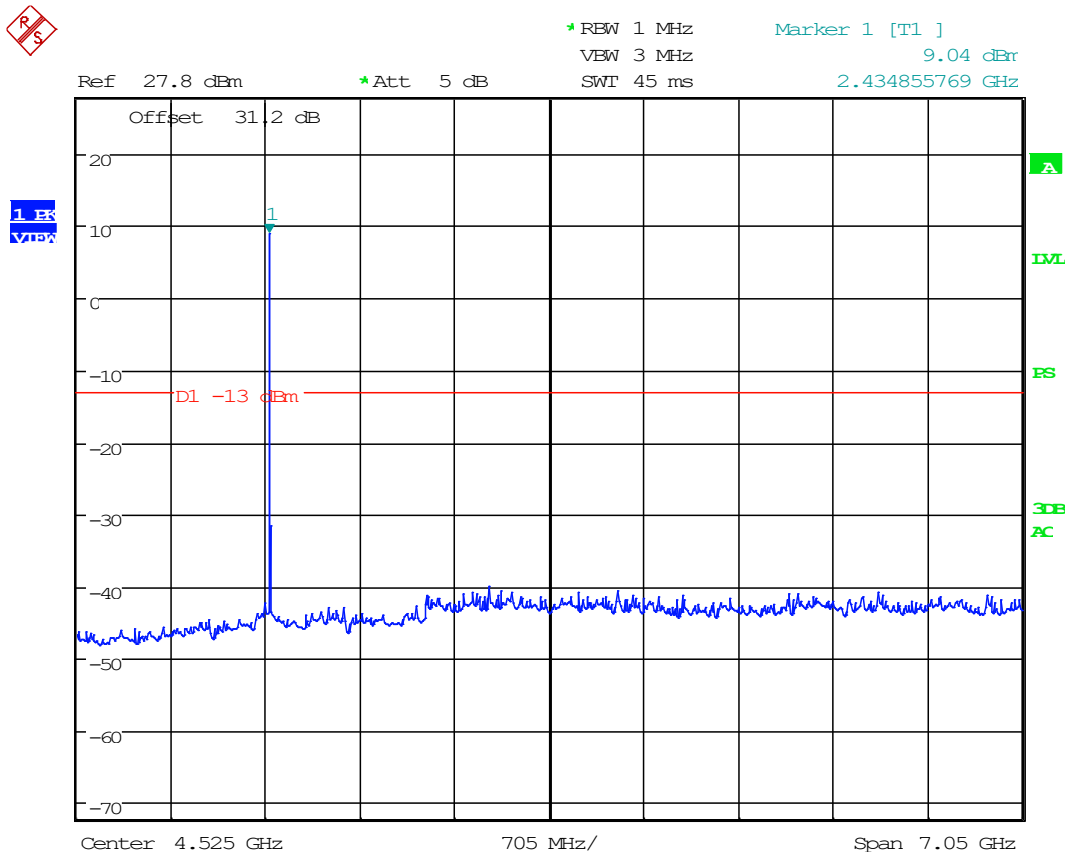
Date: 3.JAN.2024 12:49:37

8.5.3 Conducted Emissions Plot, Below 1G, 2440 MHz



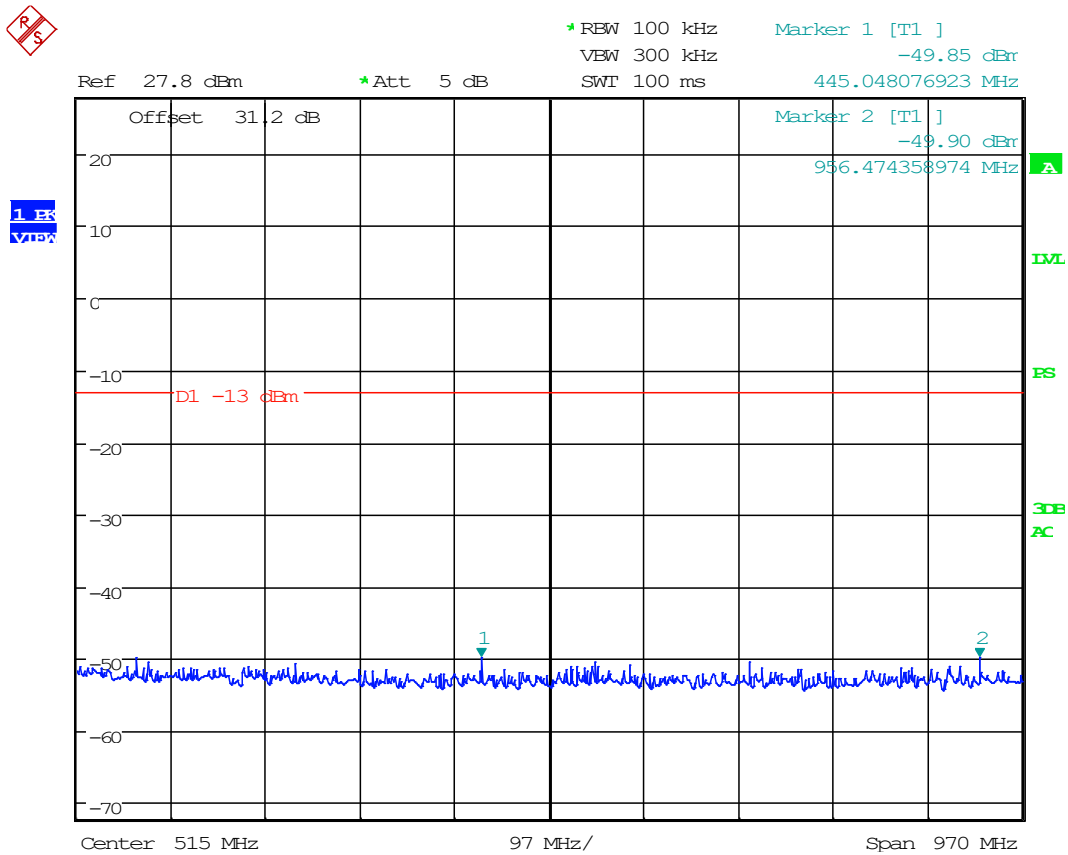
Date: 3.JAN.2024 14:59:05

8.5.4 Conducted Emissions Plot, Above 1G, 2440 MHz



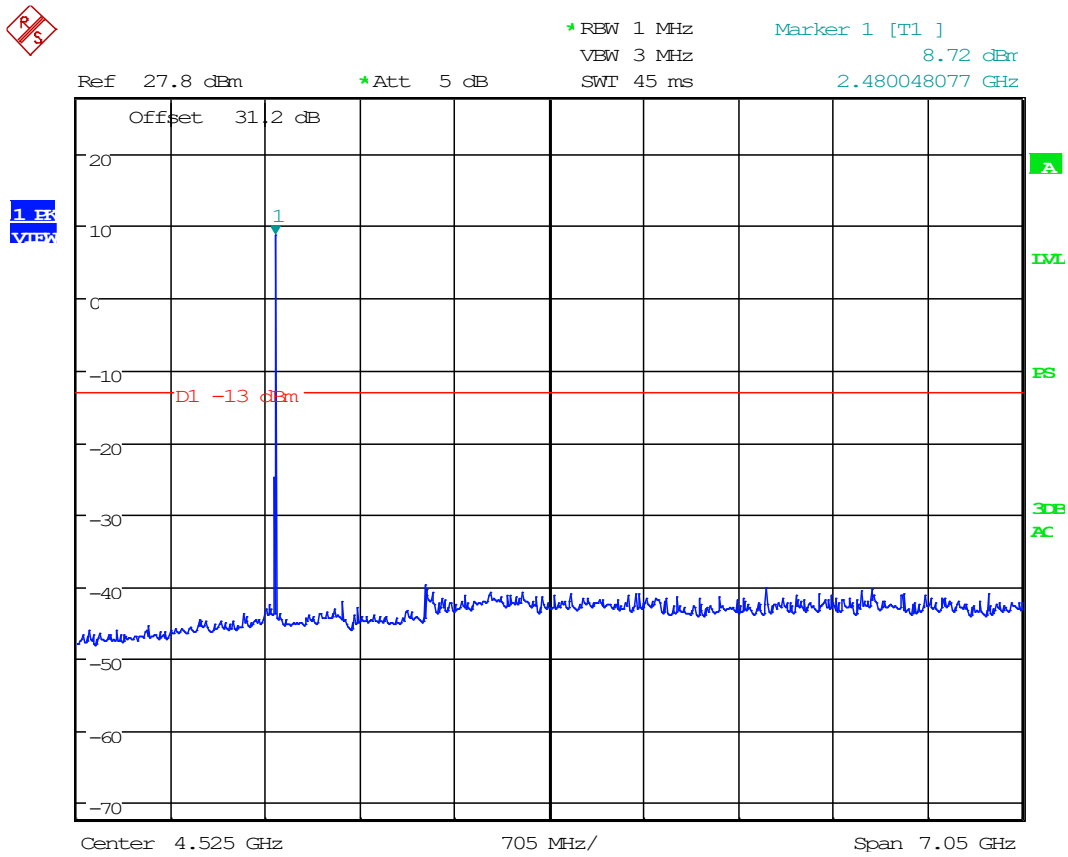
Date: 3.JAN.2024 15:00:04

8.5.5 Conducted Emissions Plot, Below 1G, 2480 MHz



Date: 3.JAN.2024 15:11:53

8.5.6 Conducted Emissions Plot, Above 1G, 2480 MHz

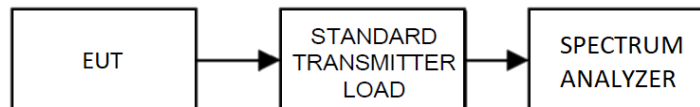


Date: 3.JAN.2024 15:12:41

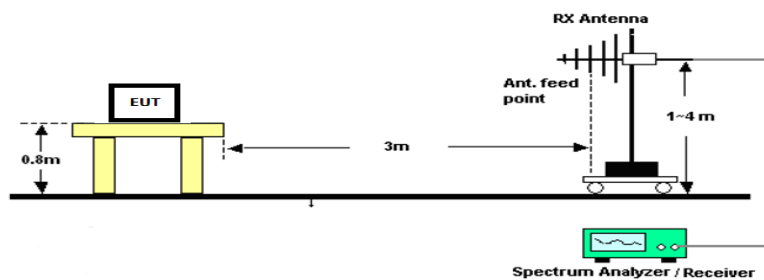
8.6 Band-edge measurements

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

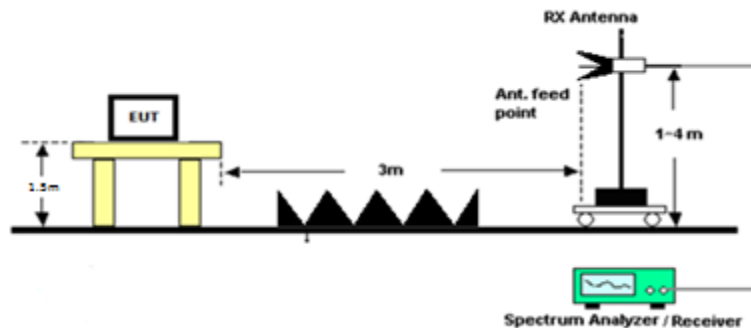
Conducted Test Setup



Radiated Test Setup, 30 – 1000 MHz

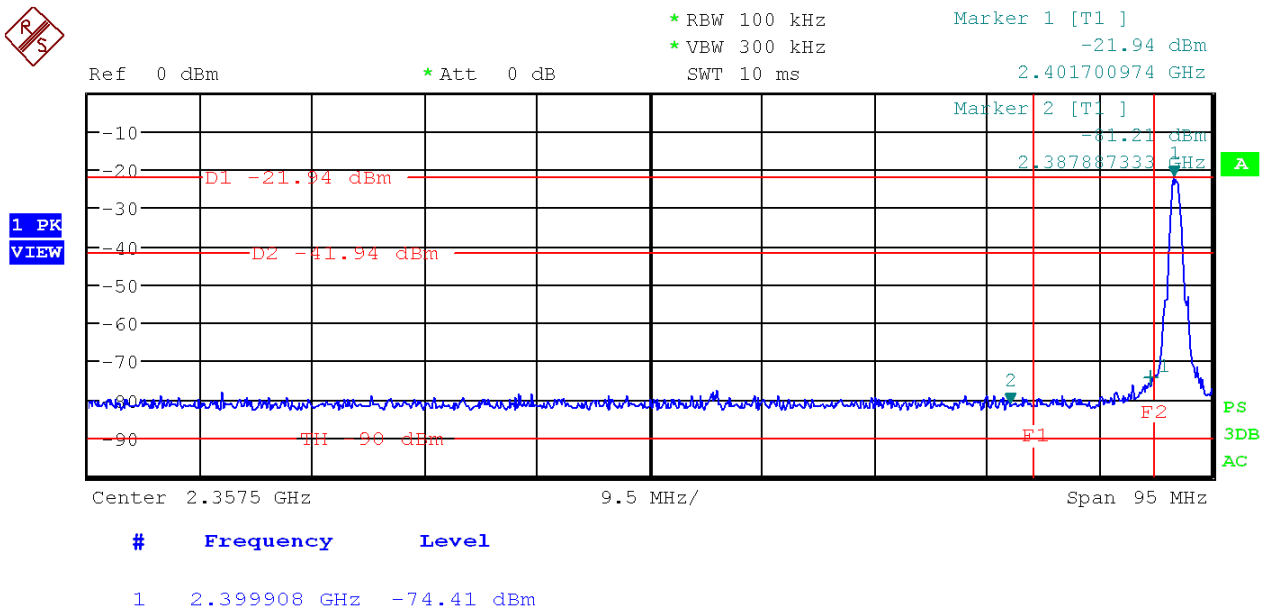


Radiated Test Setup, Above 1000 MHz



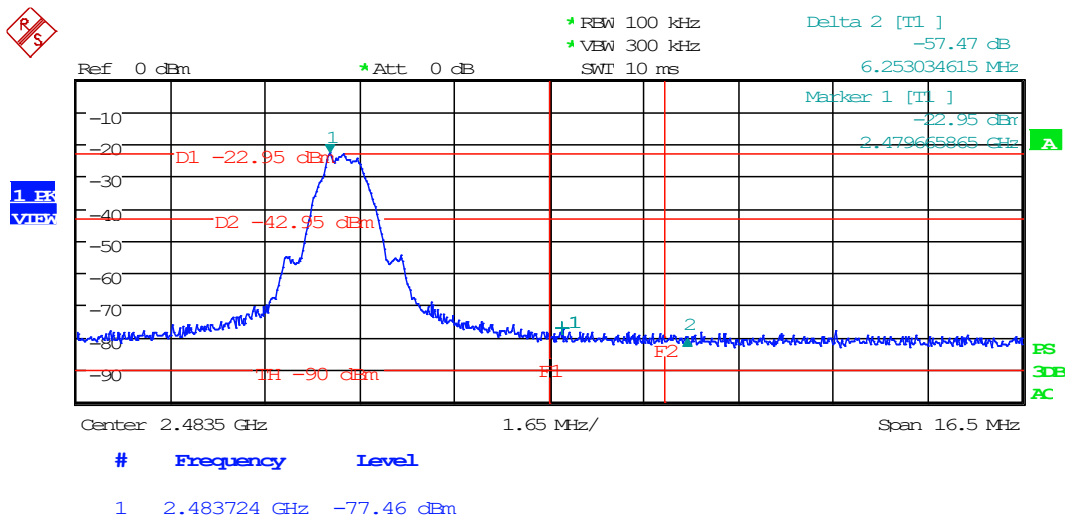
Band-edge Spectrum Plots

8.6.1 Lower Band Edge Plot



Date: 3.JAN.2024 15:38:58

8.6.2 Upper Band Edge Plot

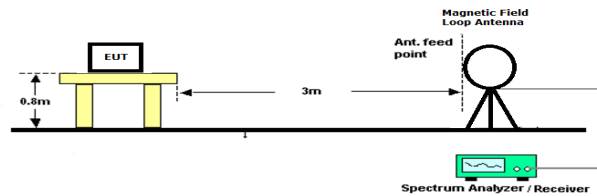


Date: 3.JAN.2024 15:19:01

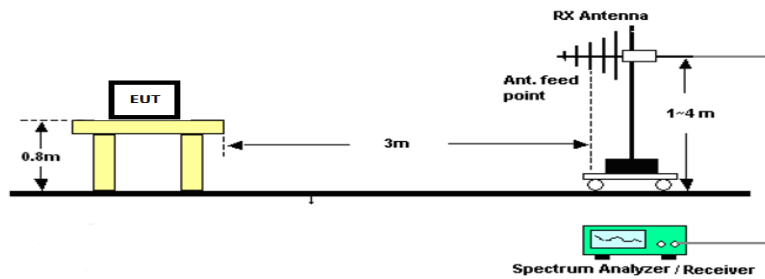
8.7 Radiated Emissions

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

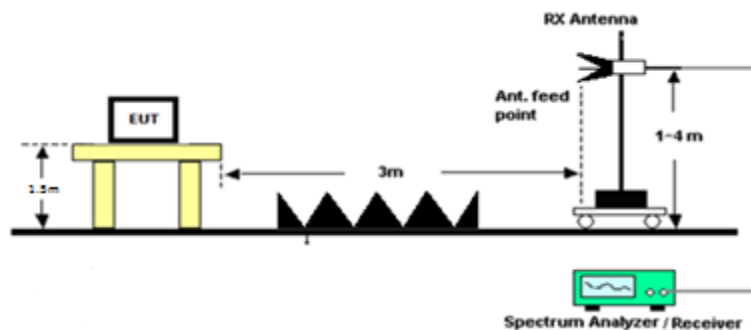
Radiated Test Setup, Below 30 MHz



Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



Radiated Emissions in Restricted Bands, Tabular Data

8.7.1 Radiated Emissions, 2402 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2402.00	4804.00	PK	22.20	H	-8.26	34.19	3.00	48.12	53.90	5.78
2402.00	4804.00	PK	14.80	V	-8.26	34.19	3.00	40.72	53.90	13.18
2402.00	7206.00	PK	15.50	H	-10.11	36.31	3.00	41.69	53.90	12.21
2402.00	7206.00	PK	14.30	V	-10.11	36.31	3.00	40.49	53.90	13.41
2402.00	9608.00	PK	15.30	H	-11.59	36.81	3.00	40.53	53.90	13.37
2402.00	9608.00	PK	15.50	V	-11.59	36.81	3.00	40.73	53.90	13.17
2402.00	12010.00	PK	16.00	H	-13.21	38.79	3.00	41.59	53.90	12.31
2402.00	12010.00	PK	15.20	V	-13.21	38.79	3.00	40.79	53.90	13.11
2402.00	14412.00	PK	16.10	H	-14.47	39.72	3.00	41.35	53.90	12.55
2402.00	14412.00	PK	16.30	V	-14.47	39.72	3.00	41.55	53.90	12.35
2402.00	16814.00	PK	15.20	H	-15.88	42.29	3.00	41.61	53.90	12.29
2402.00	16814.00	PK	15.50	V	-15.88	42.29	3.00	41.91	53.90	11.99
2402.00	19216.00	PK	16.30	H	-16.71	16.00	3.00	15.58	53.90	38.32
2402.00	19216.00	PK	16.10	V	-16.71	16.00	3.00	15.38	53.90	38.52
2402.00	21618.00	PK	16.70	H	-17.96	16.90	3.00	15.63	53.90	38.27
2402.00	21618.00	PK	16.90	V	-17.96	16.90	3.00	15.83	53.90	38.07
2402.00	24020.00	PK	16.40	H	-18.75	17.95	3.00	15.60	53.90	38.30
2402.00	24020.00	PK	16.70	V	-18.75	17.95	3.00	15.90	53.90	38.00

8.7.2 Radiated Emissions, 2440 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2440.00	4880.00	PK	21.80	H	-8.32	34.11	3.00	47.59	53.90	6.31
2440.00	4880.00	PK	14.10	V	-8.32	34.11	3.00	39.89	53.90	14.01
2440.00	7320.00	PK	14.60	H	-10.19	36.43	3.00	40.84	53.90	13.06
2440.00	7320.00	PK	14.30	V	-10.19	36.43	3.00	40.54	53.90	13.36
2440.00	9760.00	PK	14.70	H	-11.71	37.03	3.00	40.02	53.90	13.88
2440.00	9760.00	PK	14.70	V	-11.71	37.03	3.00	40.02	53.90	13.88
2440.00	12200.00	PK	16.00	H	-13.30	39.03	3.00	41.73	53.90	12.17
2440.00	12200.00	PK	15.10	V	-13.30	39.03	3.00	40.83	53.90	13.07
2440.00	14640.00	PK	16.20	H	-14.52	39.86	3.00	41.54	53.90	12.36
2440.00	14640.00	PK	15.90	V	-14.52	39.86	3.00	41.24	53.90	12.66
2440.00	17080.00	PK	16.20	H	-16.06	41.98	3.00	42.13	53.90	11.77
2440.00	17080.00	PK	16.10	V	-16.06	41.98	3.00	42.03	53.90	11.87
2440.00	19520.00	PK	16.10	H	-16.92	15.67	3.00	14.85	53.90	39.05
2440.00	19520.00	PK	16.30	V	-16.92	15.67	3.00	15.05	53.90	38.85
2440.00	21960.00	PK	17.00	H	-18.12	16.92	3.00	15.81	53.90	38.09
2440.00	21960.00	PK	16.60	V	-18.12	16.92	3.00	15.41	53.90	38.49
2440.00	24400.00	PK	16.60	H	-18.85	18.20	3.00	15.95	53.90	37.95
2440.00	24400.00	PK	16.80	V	-18.85	18.20	3.00	16.15	53.90	37.75

8.7.3 Radiated Emissions, 2480 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2480.00	4960.00	PK	18.90	H	-8.40	33.99	3.00	44.49	53.90	9.41
2480.00	4960.00	PK	14.10	V	-8.40	33.99	3.00	39.69	53.90	14.21
2480.00	7440.00	PK	14.40	H	-10.31	36.21	3.00	40.31	53.90	13.59
2480.00	7440.00	PK	14.00	V	-10.31	36.21	3.00	39.91	53.90	13.99
2480.00	9920.00	PK	15.40	H	-11.86	37.07	3.00	40.61	53.90	13.29
2480.00	9920.00	PK	14.60	V	-11.86	37.07	3.00	39.81	53.90	14.09
2480.00	12400.00	PK	16.40	H	-13.46	39.26	3.00	42.20	53.90	11.70
2480.00	12400.00	PK	15.70	V	-13.46	39.26	3.00	41.50	53.90	12.40
2480.00	14880.00	PK	15.00	H	-14.69	40.09	3.00	40.40	53.90	13.50
2480.00	14880.00	PK	15.50	V	-14.69	40.09	3.00	40.90	53.90	13.00
2480.00	17360.00	PK	15.50	H	-16.28	41.59	3.00	40.81	53.90	13.09
2480.00	17360.00	PK	15.60	V	-16.28	41.59	3.00	40.91	53.90	12.99
2480.00	19840.00	PK	16.20	H	-17.10	16.21	3.00	15.31	53.90	38.59
2480.00	19840.00	PK	16.80	V	-17.10	16.21	3.00	15.91	53.90	37.99
2480.00	22320.00	PK	16.10	H	-18.13	17.02	3.00	14.98	53.90	38.92
2480.00	22320.00	PK	16.20	V	-18.13	17.02	3.00	15.08	53.90	38.82
2480.00	24800.00	PK	16.20	H	-18.85	18.07	3.00	15.42	53.90	38.48
2480.00	24800.00	PK	15.90	V	-18.85	18.07	3.00	15.12	53.90	38.78

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_11489-23_FCC 15.247 DTS_2	1	Initial release	1/22/2024
	2	Change in page 1	01/15/2025



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END OF TEST REPORT
