



Test Report - FCC Part 15.247/ DTS

Applicant: Abbott Rapid Diagnostics, Informatics, Inc.

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature 4/19/2023

This test report shall not be reproduced except in full without the written and signed permission of Timco Engineering Inc. (IIA). 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.



Table of Contents

1.	CUSTOMER INFORMATION.....	4
1.1	TEST RESULT SUMMARY	4
2.	LOCATION OF TESTING	6
2.1	TEST LABORATORY	6
2.2	TESTING WAS PERFORMED, REVIEWED BY	6
3.	TEST SAMPLE(S) (EUT/DUT)	7
3.1	DESCRIPTION OF THE EUT.....	7
3.2	CONFIGURATION OF EUT	8
3.3	TEST SETUP OF EUT	8
4.	TEST METHODS & APPLICABLE REGULATORY LIMITS.....	9
4.1	TEST METHODS/STANDARDS/GUIDANCE:	9
4.2	APPLIED LIMITS AND REGULATORY LIMITS:.....	9
5.	MEASUREMENT UNCERTAINTY.....	9
6.	ENVIRONMENTAL CONDITIONS	9
6.1	TEMPERATURE & HUMIDITY.....	9
7.	LIST OF TEST EQUIPMENT AND TEST FACILITY.....	10
7.1	LIST OF TEST EQUIPMENT	10
8.	TEST RESULTS	11
8.1	DTS CONDUCTED OUTPUT POWER.....	12
8.1.1	Conducted Output Power, 2412 MHz.....	13
8.1.2	Conducted Output Power, 2437 MHz	14
8.1.3	Conducted Output Power, 2462 MHz	15
8.2	OCCUPIED BANDWIDTH.....	16
8.2.1	99% Bandwidth Plot, 2412 MHz.....	17
8.2.2	99% Bandwidth Plot, 2437 MHz	18
8.2.3	99% Bandwidth Plot, 2462 MHz	19
8.3	6dB BANDWIDTH (DTS BW).....	20
8.3.1	6dB Bandwidth (DTS BW), 2412 MHz.....	21
8.3.2	6dB Bandwidth (DTS BW), 2437 MHz	22
8.3.3	6dB Bandwidth (DTS BW), 2462 MHz	23
8.4	POWER SPECTRAL DENSITY (PSD).....	24
8.4.1	Power Spectral Density (PSD), 2412 MHz.....	25
8.4.2	Power Spectral Density (PSD), 2437 MHz	26
8.4.3	Power Spectral Density (PSD), 2462 MHz	27
8.5	EMISSIONS IN NONRESTRICTED FREQUENCY BANDS (OUT OF BAND)	28
8.5.1	Conducted Emissions Plot, 2412 MHz.....	29
8.5.2	Conducted Emissions Plot, 2437 MHz	30
8.5.3	Conducted Emissions Plot, 2462 MHz	31



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

8.6	BAND-EDGE MEASUREMENTS	32
8.6.1	Lower Band Edge Plot	33
8.6.2	Upper Band Edge Plot	34
8.7	RADIATED EMISSIONS	35
8.7.1	Radiated Emissions, 2412 MHz	36
8.7.2	Radiated Emissions, 2437 MHz	37
8.7.3	Radiated Emissions, 2462 MHz	38
9.	ANNEX-A - PHOTOGRAPHS OF THE EUT	39
10.	ANNEX-B – TEST SETUP PHOTOGRAPHS	39
11.	HISTORY OF TEST REPORT CHANGES	39



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

1. Customer Information

Applicant: Abbott Rapid Diagnostics, Informatics, Inc.
Address: 2000 Holiday Drive
Charlottesville, Virginia, 22901, 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



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA").

Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

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: 4/5/2023 – 4/7/2023

Signature:

Sr. EMC Engineer
EMC-003838-NE



Name & Title:

Tim Royer, EMC Engineer

Date of Signature

4/19/2023

Signature:

Name & Title:

Kristoffer Costa, EMC Technician

Date of Signature

4/19/2023



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

The test sample was received: 3/29/2023

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:	2BAKJ-ACR2G01
Certified Module FCC ID:	XMR201903EG25G
Brief Description	4G LTE Router
Model(s) #	ACR2-G-01
Firmware version	N/A
Software version	N/A
Serial Number	a601e134e5998547

Technical Characteristics	
Frequency Range	2400 MHz- 2483.5 MHz
RF O/P Power (Max.)	12.90 dBm/ 0.019 W
Duty Cycle	100%
Antenna Connector	UART
Voltage Rating (AC or Batt.)	100-240 VAC/ 50-60 Hz



3.2 Configuration of EUT

Band (MHz)	Mode	Number of Ant.
2400-2483.5	Transmit	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

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	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	2/25/20	4/25/2023
CHAMBER	CHAMBER	Panashield	3M	N/A	3/12/19	12/21/2023
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	2/27/19	7/26/2025
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
RSCommander	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:

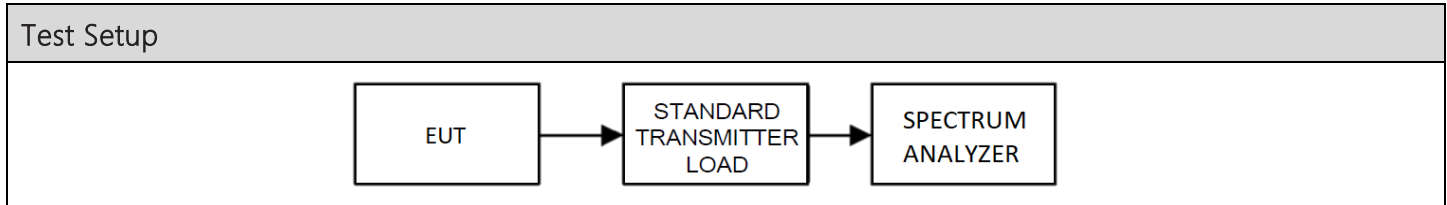
Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dB μ V	+ 10.36 dB/m	+0.40 dB	=30.36 dB μ V/m @ 3m

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



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



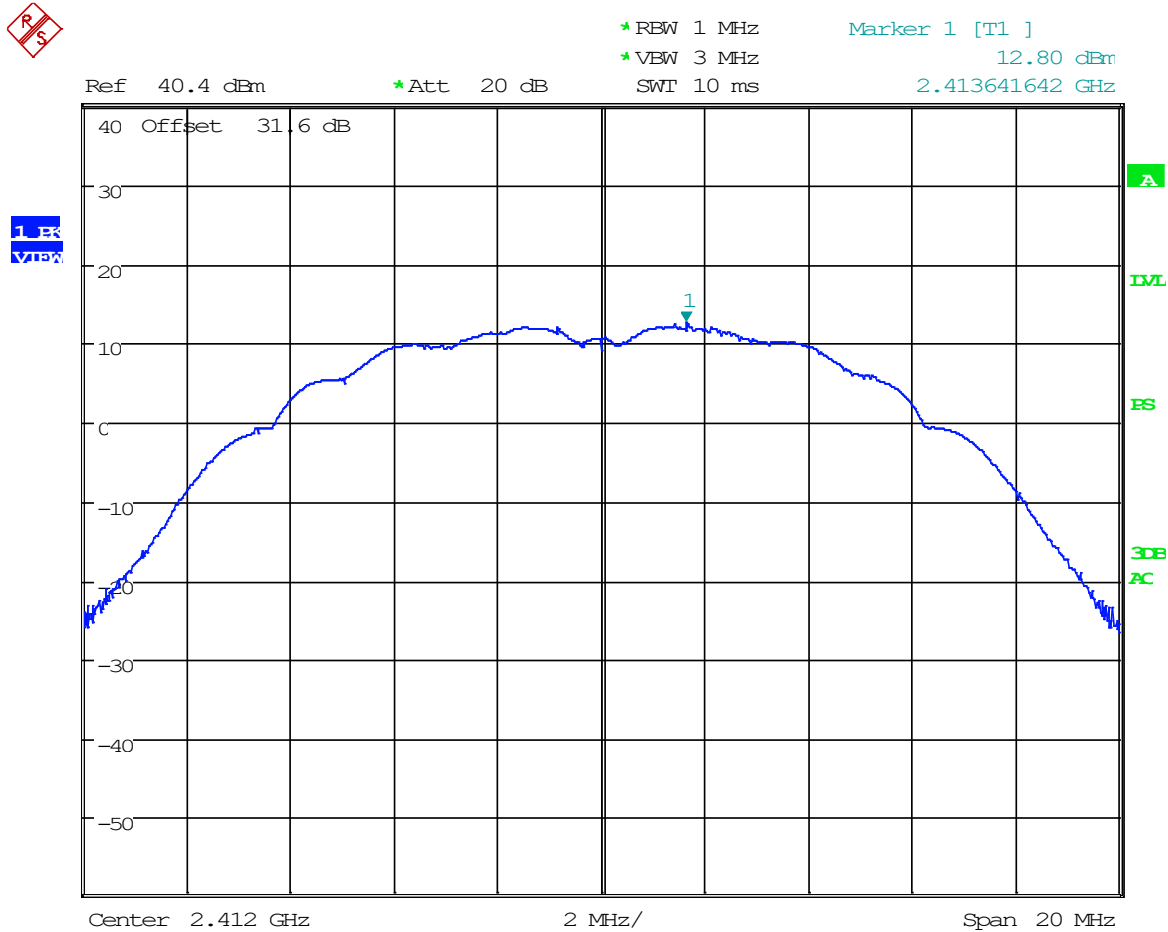
Test Results, Mode 1	
Tuned Frequency (MHz)	Power Output (dBm)
2412	12.80
2437	12.90
2462	12.88

- MAXIMUM Conducted Output Power = 12.90 dBm



Conducted Output Power, Spectrum Plots

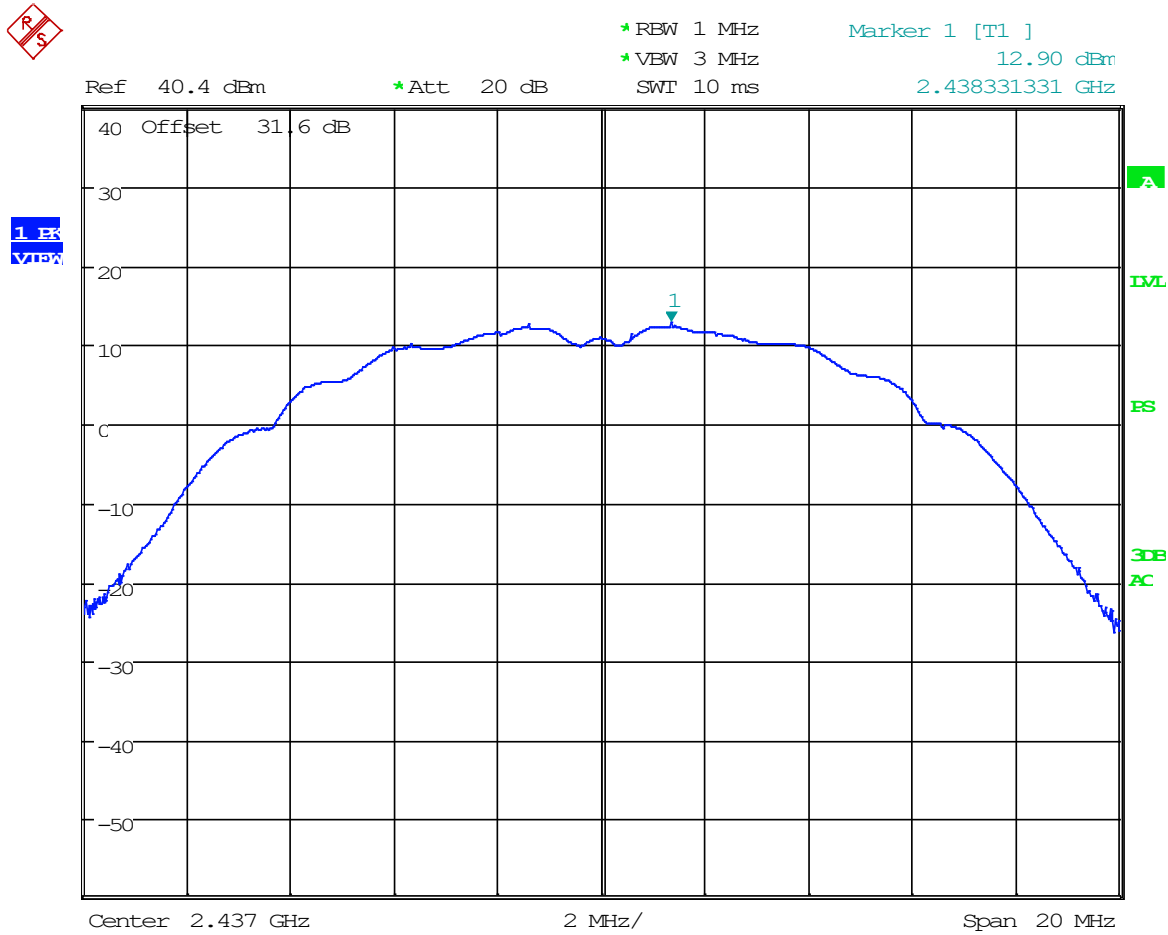
8.1.1 Conducted Output Power, 2412 MHz



Date: 6.APR.2023 09:54:08



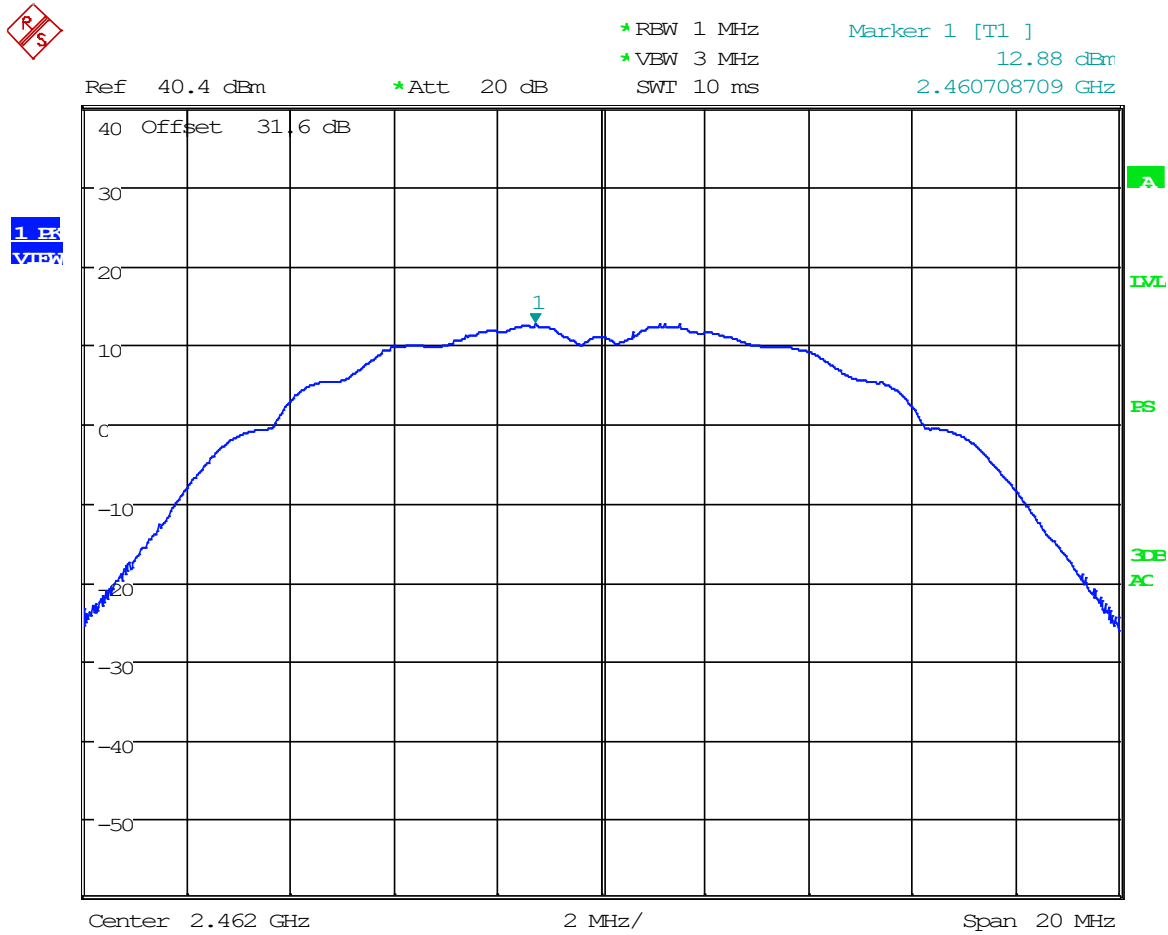
8.1.2 Conducted Output Power, 2437 MHz



Date: 6.APR.2023 09:55:52



8.1.3 Conducted Output Power, 2462 MHz

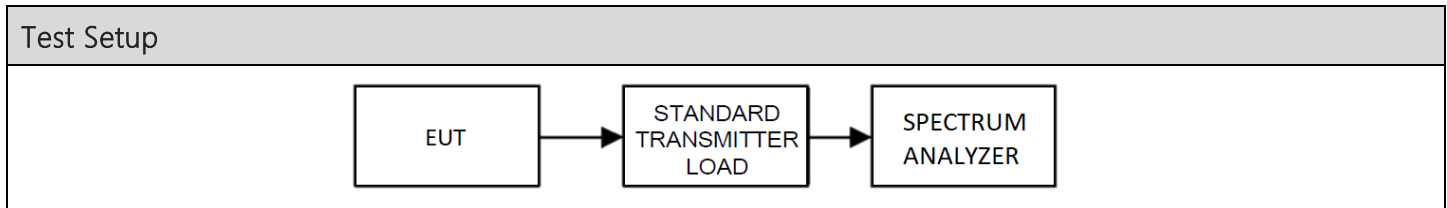


Date: 6.APR.2023 09:57:51



8.2 Occupied Bandwidth

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



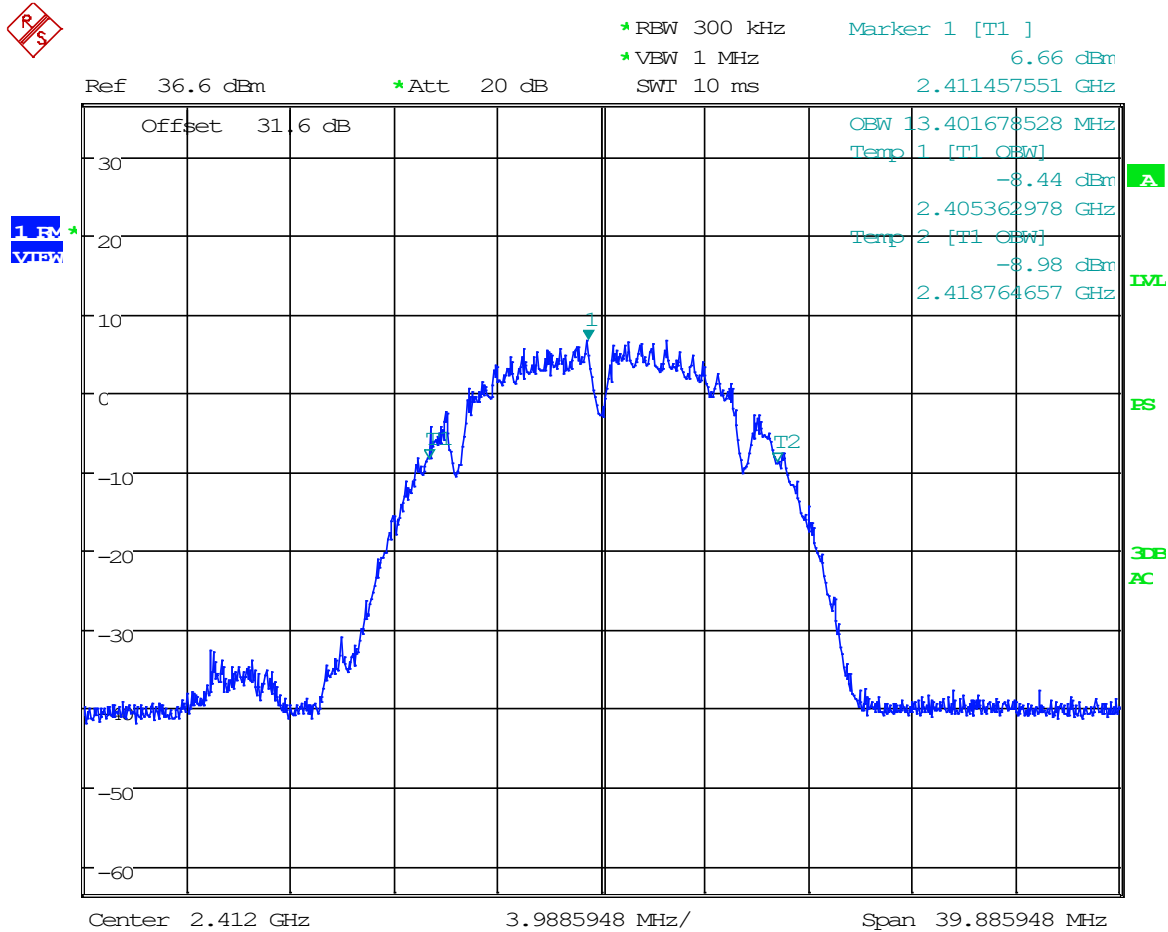
99% BW Test Results

Tuned Frequency (MHz)	99% BW (MHz)
2412	13.401
2437	13.315
2462	13.284



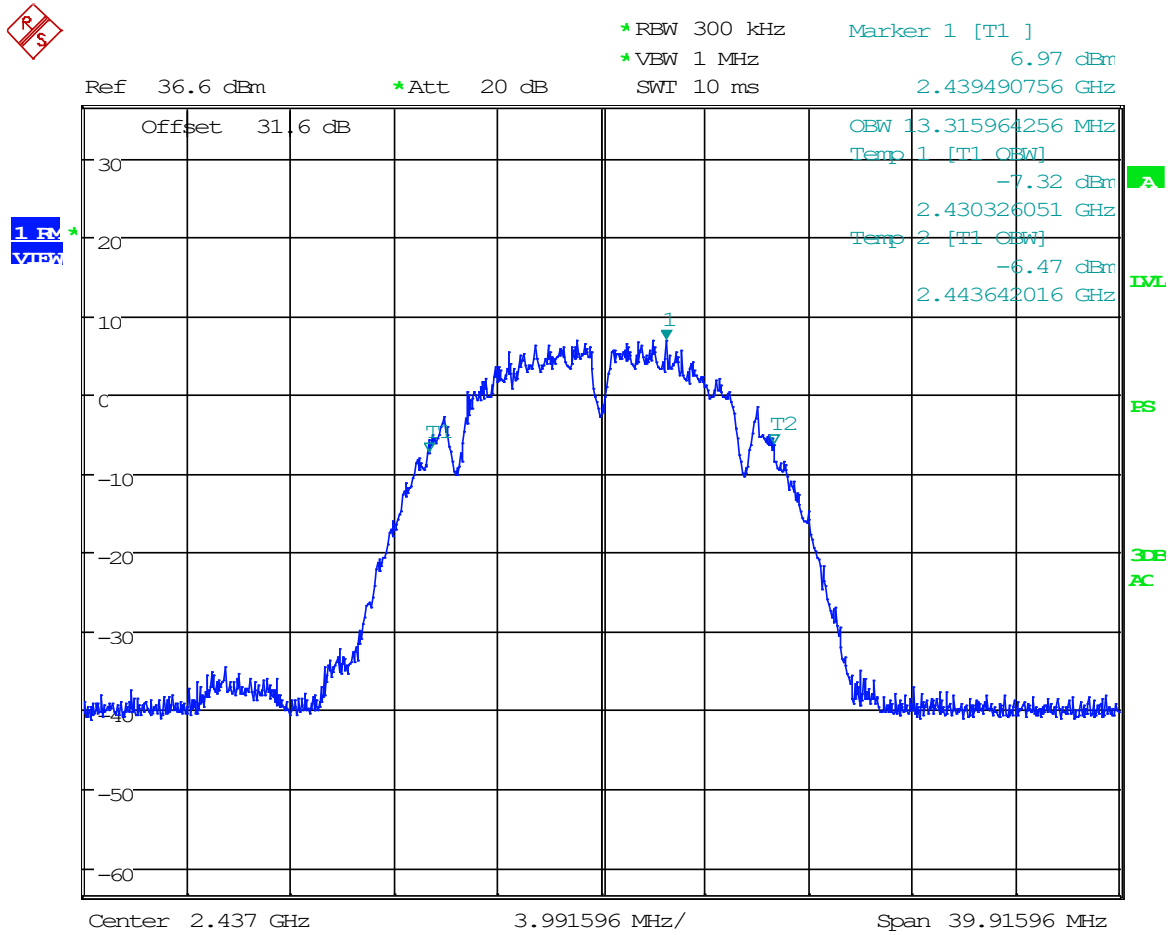
99% Occupied Bandwidth Test Data / Spectrum Plots

8.2.1 99% Bandwidth Plot, 2412 MHz



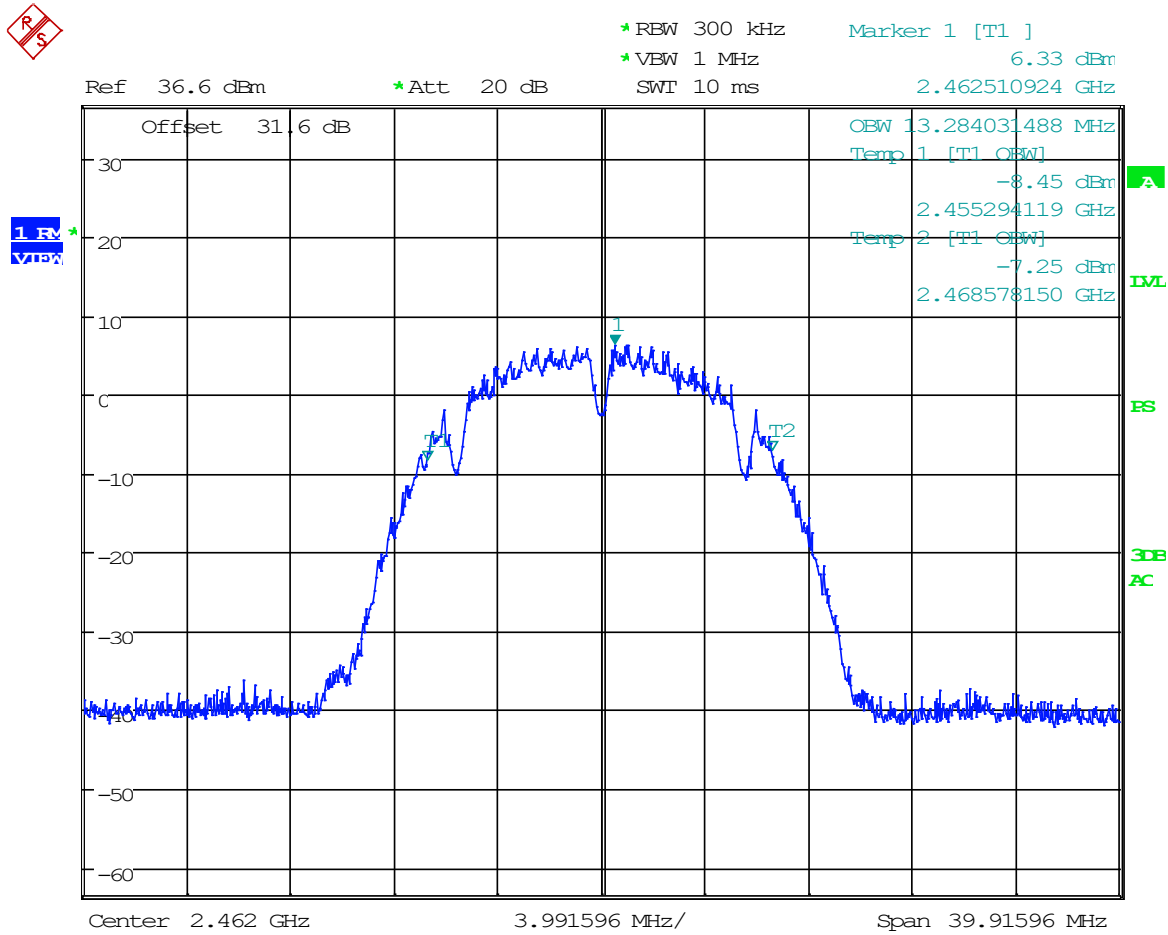
Date: 6.APR.2023 10:47:05

8.2.2 99% Bandwidth Plot, 2437 MHz



Date: 6.APR.2023 10:48:40

8.2.3 99% Bandwidth Plot, 2462 MHz

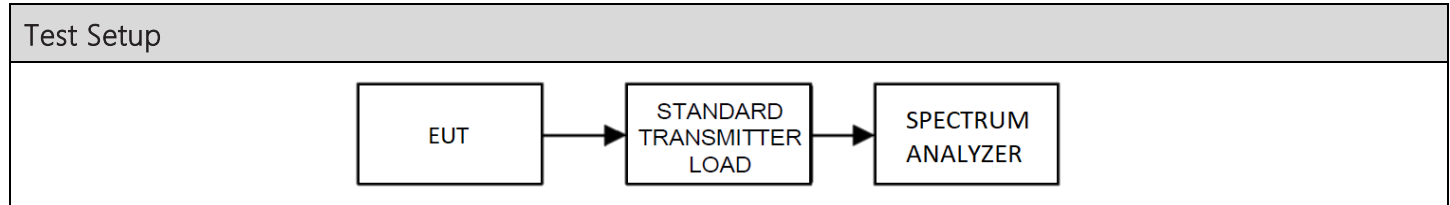


Date: 6.APR.2023 10:49:51



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

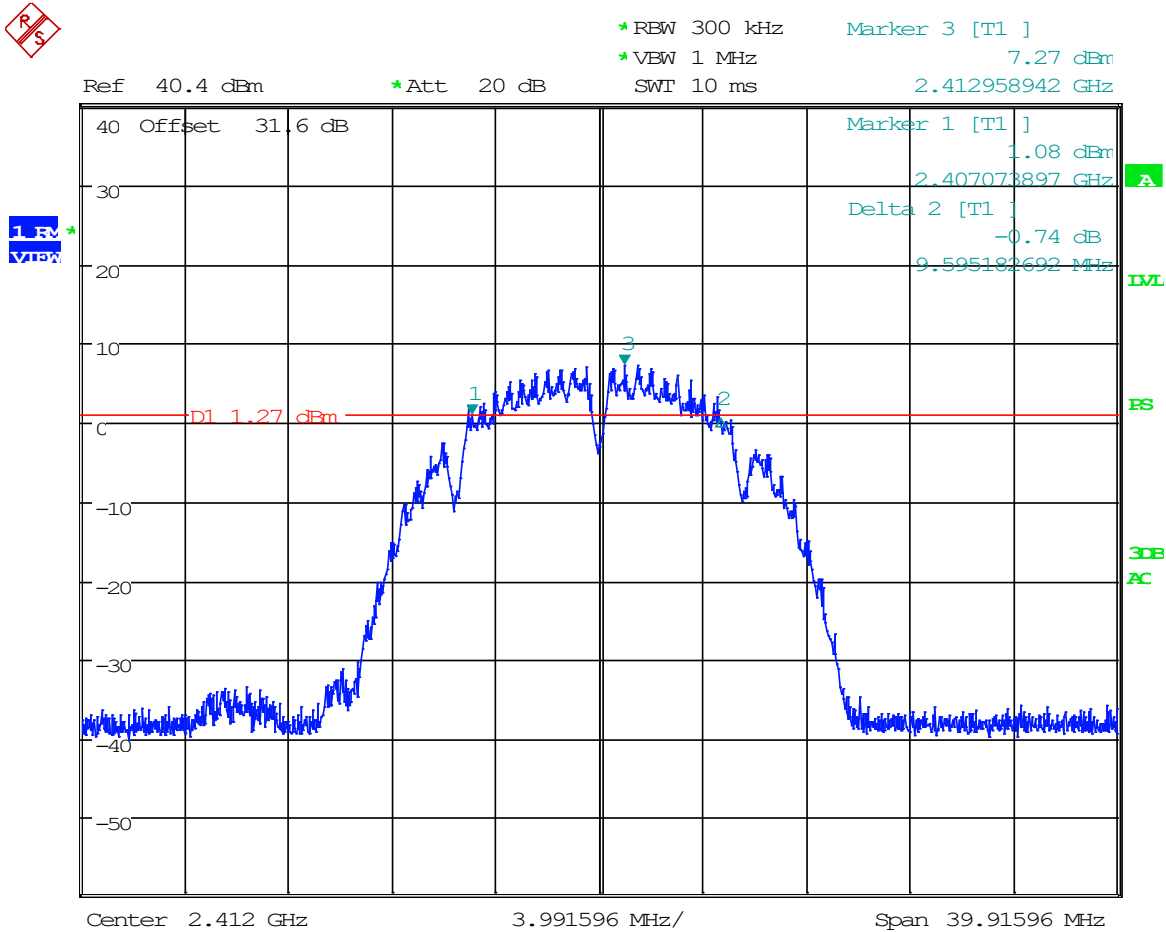


Tuned Frequency (MHz)	6dB Bandwidth (DTS BW) (kHz)
2412	9.595
2437	9.093
2462	9.639



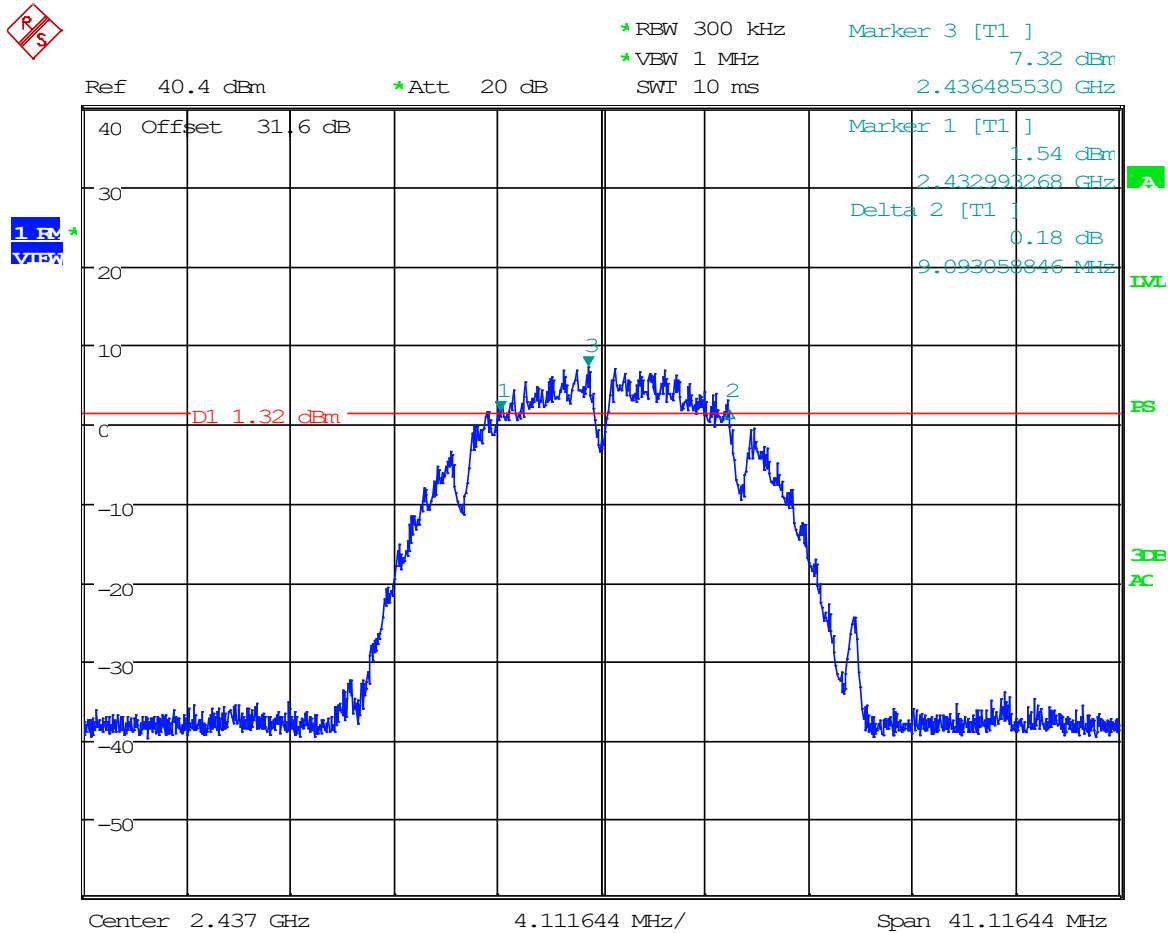
6dB BW Test Data / Spectrum Plots

8.3.1 6dB Bandwidth (DTS BW), 2412 MHz



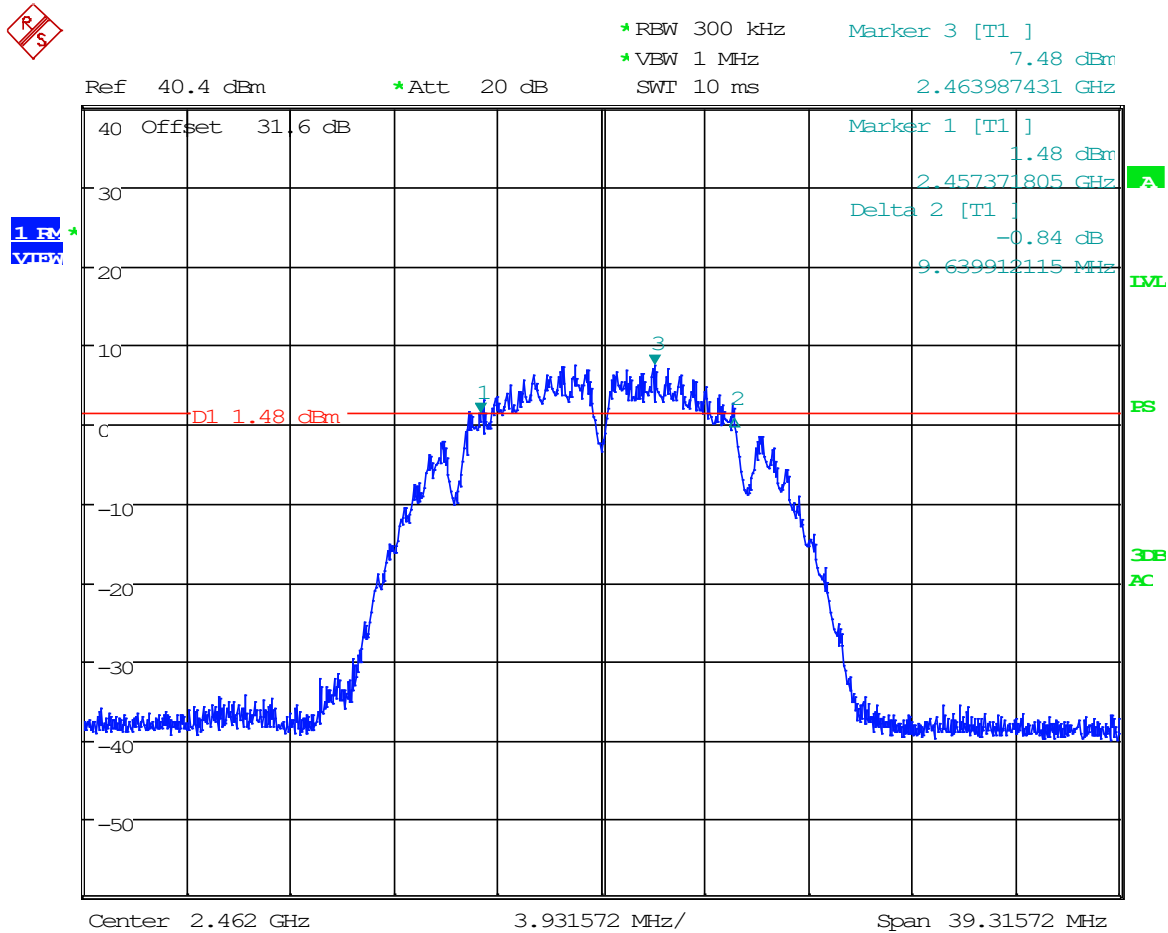
Date: 6.APR.2023 13:48:17

8.3.2 6dB Bandwidth (DTS BW), 2437 MHz



Date: 6.APR.2023 13:51:47

8.3.3 6dB Bandwidth (DTS BW), 2462 MHz

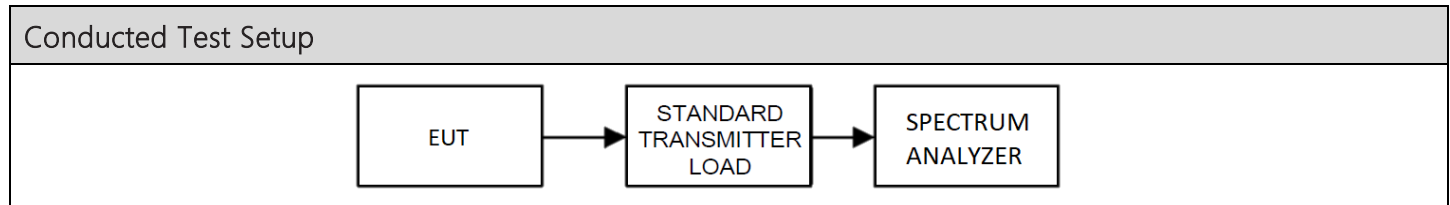


Date: 6.APR.2023 13:54:55



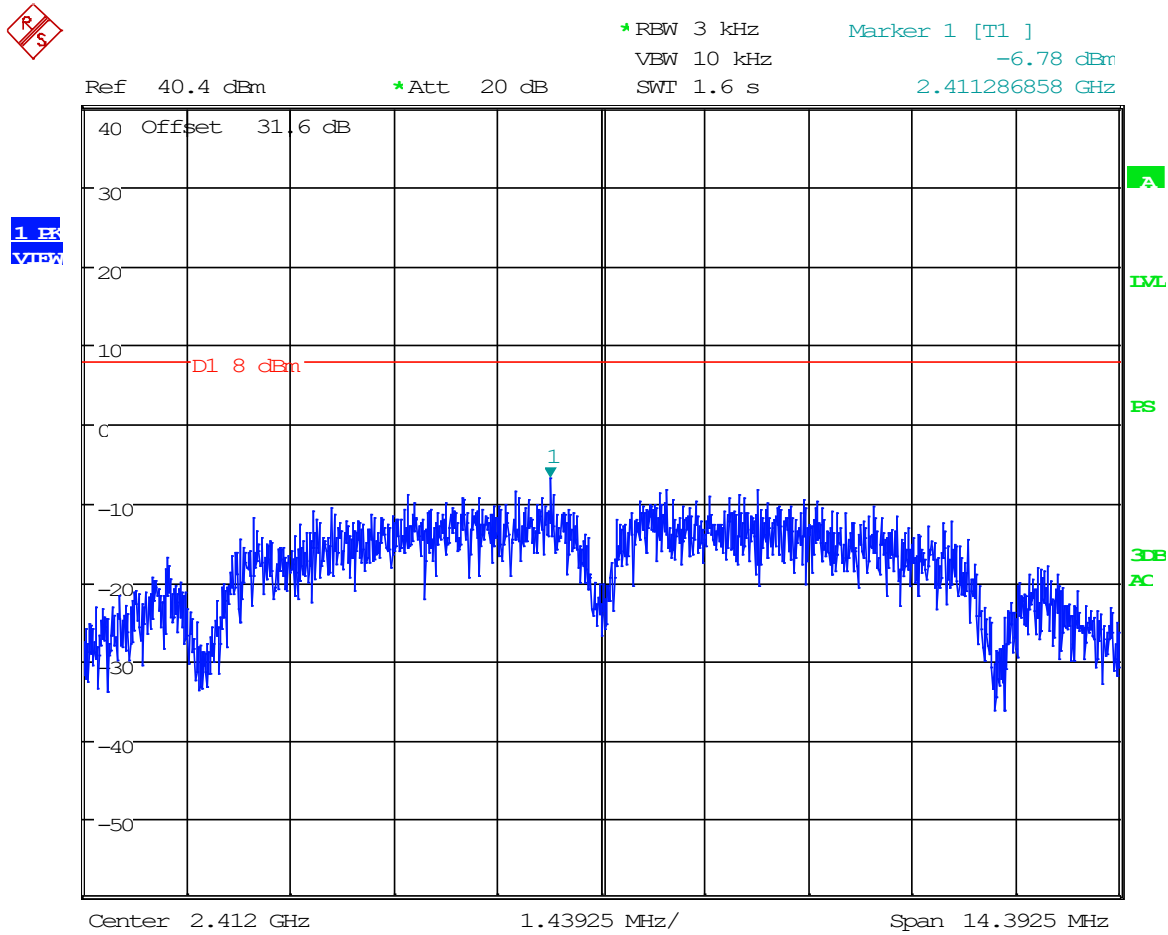
8.4 Power Spectral Density (PSD)

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



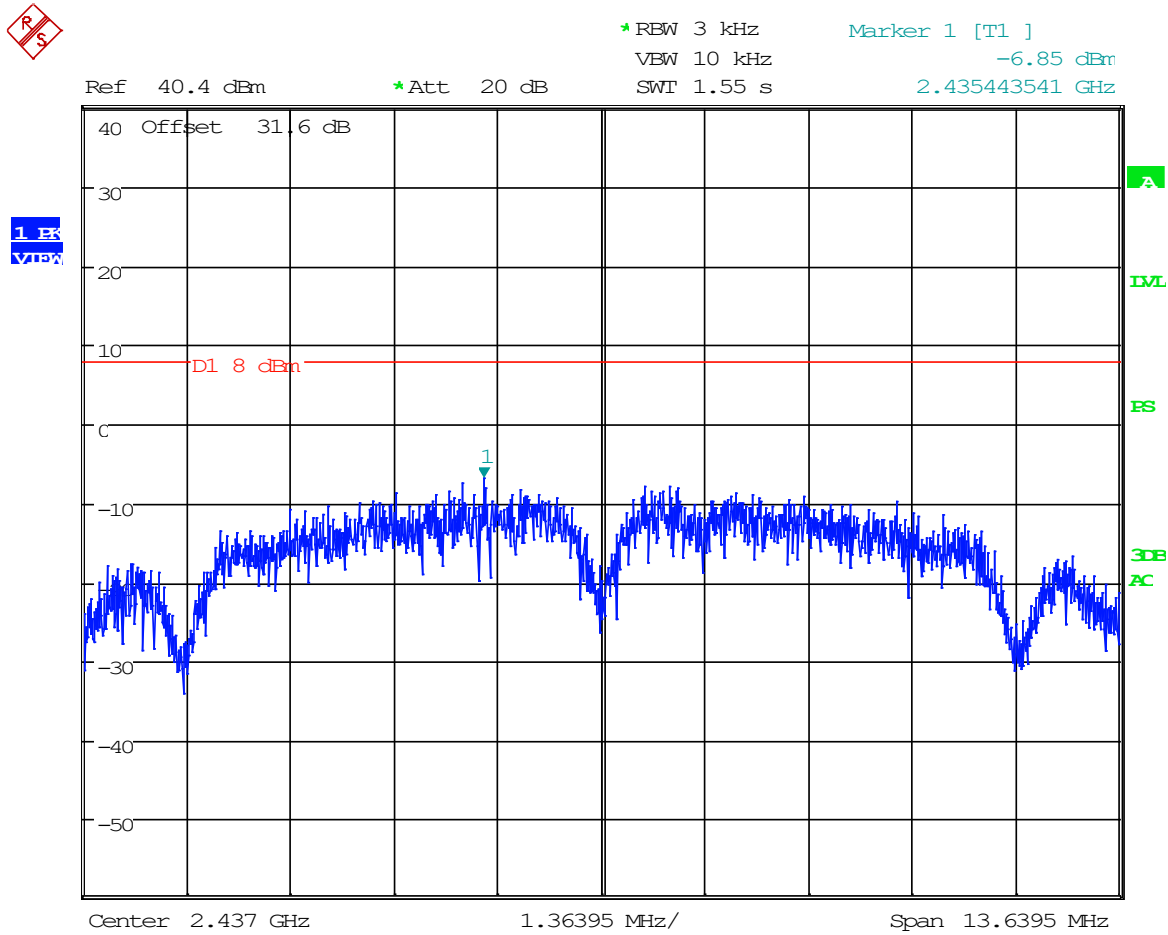
Tuned Frequency (MHz)	PSD Level (dBm)
2412	-6.78
2437	-6.85
2462	-7.69

8.4.1 Power Spectral Density (PSD), 2412 MHz



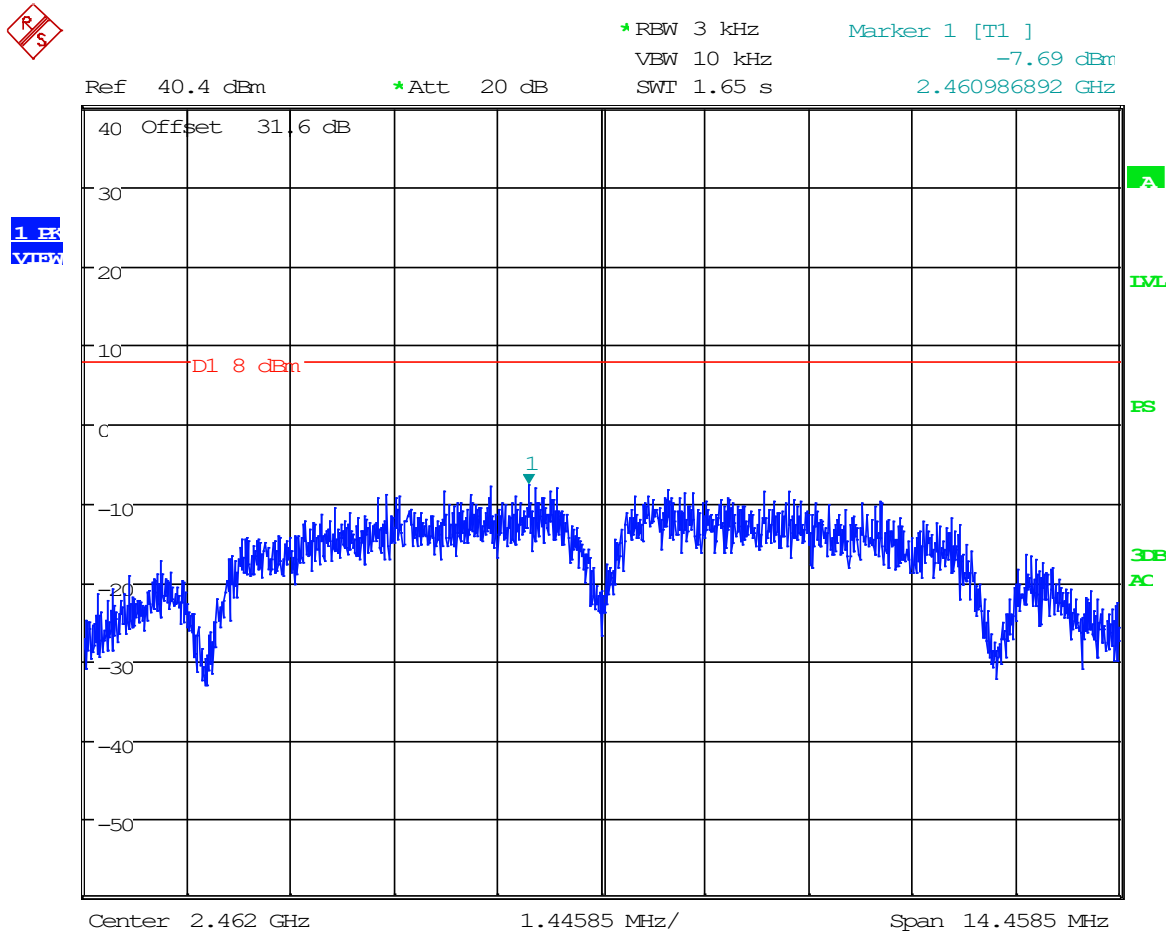
Date: 6.APR.2023 15:11:46

8.4.2 Power Spectral Density (PSD), 2437 MHz



Date: 6.APR.2023 15:17:13

8.4.3 Power Spectral Density (PSD), 2462 MHz



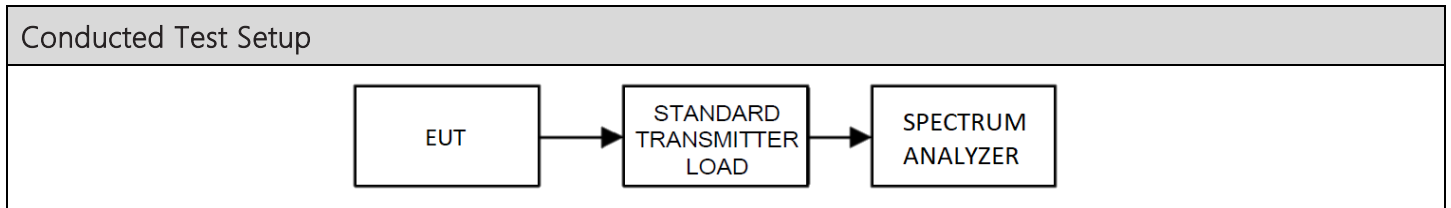
Date: 6.APR.2023 15:21:53



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

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.

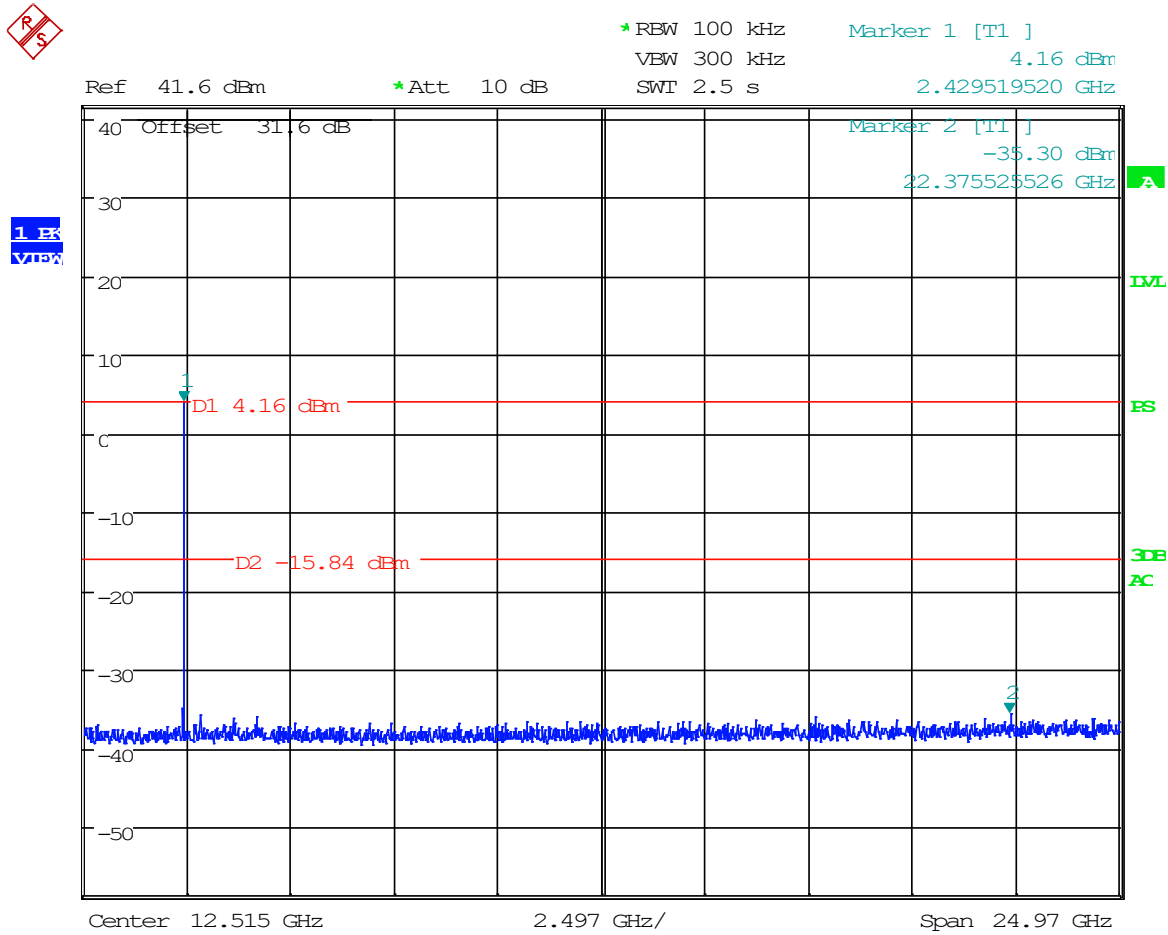




8.5.1 Conducted Emissions Plot, 2412 MHz

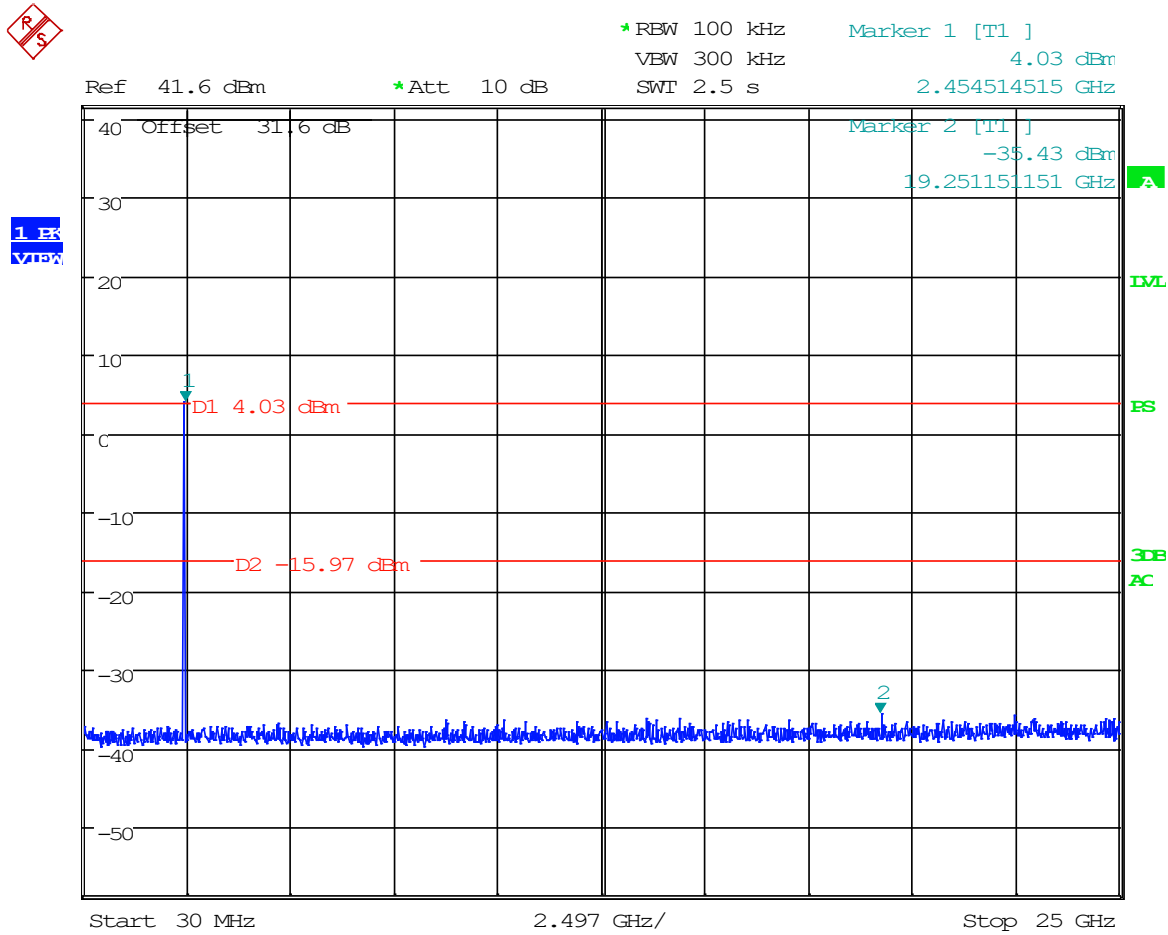


8.5.2 Conducted Emissions Plot, 2437 MHz



Date: 6.APR.2023 11:06:13

8.5.3 Conducted Emissions Plot, 2462 MHz

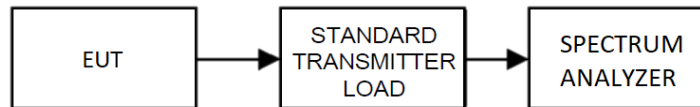


Date: 6.APR.2023 11:03:05

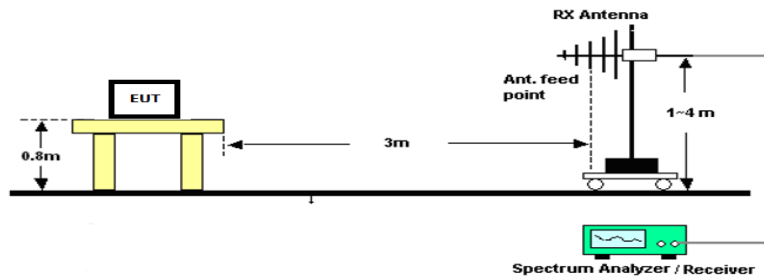
8.6 Band-edge measurements

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

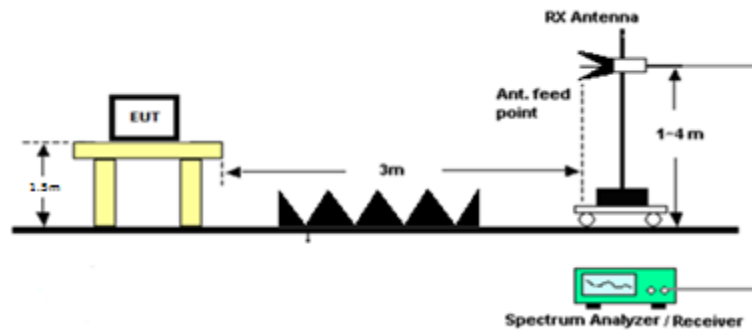
Conducted Test Setup



Radiated Test Setup, 30 – 1000 MHz



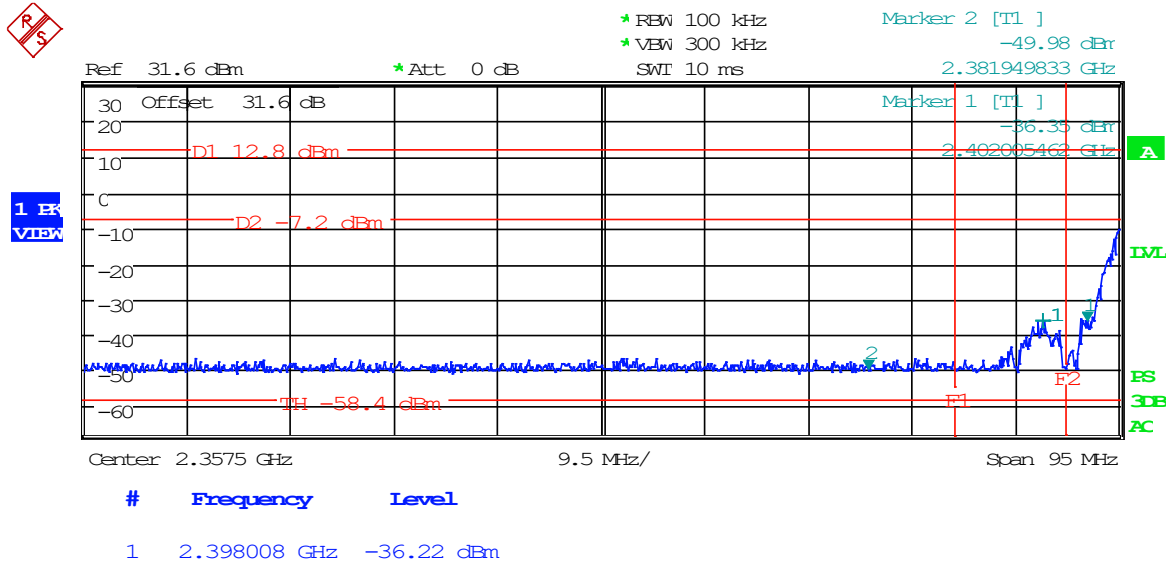
Radiated Test Setup, Above 1000 MHz





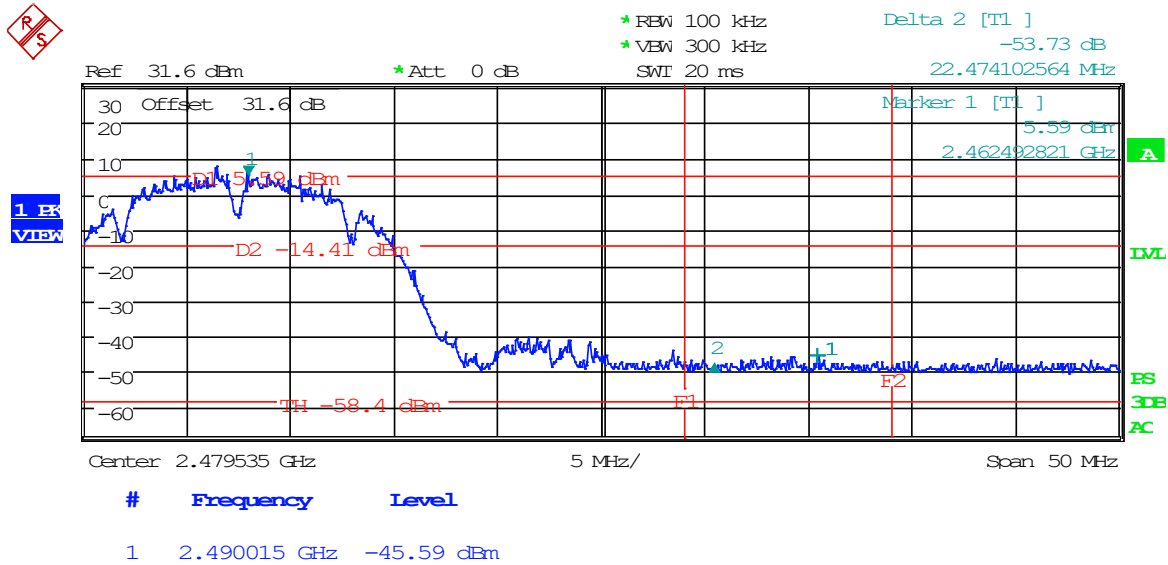
Band-edge Spectrum Plots

8.6.1 Lower Band Edge Plot



Date: 6.APR.2023 10:04:00

8.6.2 Upper Band Edge Plot

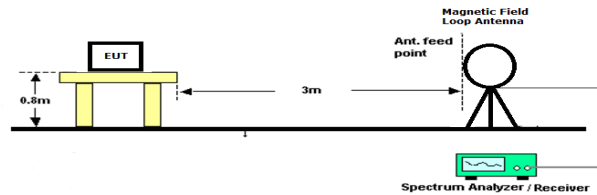


Date: 6.APR.2023 10:28:18

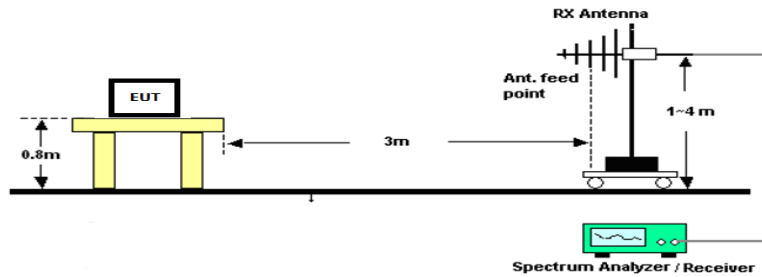
8.7 Radiated Emissions

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

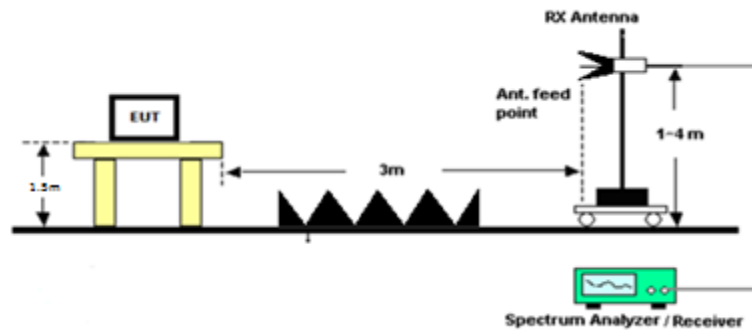
Radiated Test Setup, Below 30 MHz



Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz





Radiated Emissions in Restricted Bands, Tabular Data

8.7.1 Radiated Emissions, 2412 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)
2412.00	4824.00	X	PK	19.30	H	7.15	0.00	33.94	3.00	60.39	73.98	13.59
2412.00	4824.00	X	PK	15.10	V	7.15	0.00	33.94	3.00	56.19	73.98	17.79
2412.00	4824.00	X	AVG	-8.90	H	7.15	0.00	33.94	3.00	32.19	53.98	21.79
2412.00	4824.00	X	AVG	-10.30	V	7.15	0.00	33.94	3.00	30.79	53.98	23.19
2412.00	7236.00		PK	0.20	H	9.52	0.00	36.34	3.00	46.06	53.98	7.92
2412.00	7236.00		PK	0.70	V	9.52	0.00	36.34	3.00	46.56	53.98	7.42
2412.00	9648.00		PK	-1.50	H	10.77	0.00	36.76	3.00	46.03	53.98	7.95
2412.00	9648.00		PK	-1.40	V	10.77	0.00	36.76	3.00	46.13	53.98	7.85
2412.00	12060.00	X	PK	-2.90	H	12.10	0.00	39.12	3.00	48.31	73.98	25.67
2412.00	12060.00	X	PK	-2.60	V	12.10	0.00	39.12	3.00	48.61	73.98	25.37
2412.00	12060.00	X	AVG	-16.80	H	12.10	0.00	39.12	3.00	34.41	53.98	19.57
2412.00	12060.00	X	AVG	-16.50	V	12.10	0.00	39.12	3.00	34.71	53.98	19.27
2412.00	14472.00	X	PK	-5.00	H	13.50	0.00	39.88	3.00	48.39	73.98	25.59
2412.00	14472.00	X	PK	-4.10	V	13.50	0.00	39.88	3.00	49.29	73.98	24.69
2412.00	14472.00	X	AVG	-18.60	H	13.50	0.00	39.88	3.00	34.79	53.98	19.19
2412.00	14472.00	X	AVG	-18.50	V	13.50	0.00	39.88	3.00	34.89	53.98	19.09
2412.00	16884.00		PK	-4.00	H	14.68	0.00	42.36	3.00	53.04	53.98	0.93
2412.00	16884.00		PK	-4.20	V	14.68	0.00	42.36	3.00	52.84	53.98	1.13
2412.00	19296.00	X	PK	-3.30	H	15.97	0.00	44.73	3.00	57.39	73.98	16.59
2412.00	19296.00	X	PK	-3.10	V	15.97	0.00	44.73	3.00	57.59	73.98	16.39
2412.00	19296.00	X	AVG	-17.00	H	15.97	0.00	44.73	3.00	43.69	53.98	10.29
2412.00	19296.00	X	AVG	-16.90	V	15.97	0.00	44.73	3.00	43.79	53.98	10.19



Timco Engineering, Inc., an IIA Company
 849 NW State Road 45, Newberry, Florida 32669
 (352) 472-5500 / testing@timcoengr.com

8.7.2 Radiated Emissions, 2437 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)
2437.00	4874.00	X	PK	16.30	H	7.29	0.00	33.93	3.00	57.52	73.98	16.46
2437.00	4874.00	X	PK	11.20	V	7.29	0.00	33.93	3.00	52.42	73.98	21.56
2437.00	4874.00	X	AVG	-10.60	H	7.29	0.00	33.93	3.00	30.62	53.98	23.36
2437.00	4874.00	X	AVG	-12.20	V	7.29	0.00	33.93	3.00	29.02	53.98	24.96
2437.00	7311.00	X	PK	-1.40	H	9.63	0.00	36.26	3.00	44.49	73.98	29.49
2437.00	7311.00	X	PK	-1.10	V	9.63	0.00	36.26	3.00	44.79	73.98	29.19
2437.00	7311.00	X	AVG	-15.50	H	9.63	0.00	36.26	3.00	30.39	53.98	23.59
2437.00	7311.00	X	AVG	-15.60	V	9.63	0.00	36.26	3.00	30.29	53.98	23.69
2437.00	9748.00		PK	-2.00	H	10.93	0.00	36.81	3.00	45.74	53.98	8.24
2437.00	9748.00		PK	-1.30	V	10.93	0.00	36.81	3.00	46.44	53.98	7.54
2437.00	12185.00	X	PK	-3.50	H	12.54	0.00	39.23	3.00	48.27	73.98	25.71
2437.00	12185.00	X	PK	-2.90	V	12.54	0.00	39.23	3.00	48.87	73.98	25.11
2437.00	12185.00	X	AVG	-17.10	H	12.54	0.00	39.23	3.00	34.67	53.98	19.31
2437.00	12185.00	X	AVG	-17.10	V	12.54	0.00	39.23	3.00	34.67	53.98	19.31
2437.00	14622.00		PK	-4.50	H	13.77	0.00	40.27	3.00	49.54	53.98	4.44
2437.00	14622.00		PK	-4.70	V	13.77	0.00	40.27	3.00	49.34	53.98	4.64
2437.00	17059.00		PK	-3.50	H	14.80	0.00	42.44	3.00	53.74	53.98	0.24
2437.00	17059.00		PK	-3.40	V	14.80	0.00	42.44	3.00	53.84	53.98	0.14
2437.00	19496.00	X	PK	-2.40	H	15.75	0.00	44.72	3.00	58.07	73.98	15.91
2437.00	19496.00	X	PK	-3.00	V	15.75	0.00	44.72	3.00	57.47	73.98	16.51
2437.00	19496.00	X	AVG	-16.60	H	15.75	0.00	44.72	3.00	43.87	53.98	10.11
2437.00	19496.00	X	AVG	-16.70	V	15.75	0.00	44.72	3.00	43.77	53.98	10.21



Timco Engineering, Inc., an IIA Company
 849 NW State Road 45, Newberry, Florida 32669
 (352) 472-5500 / testing@timcoengr.com

8.7.3 Radiated Emissions, 2462 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)
2462.00	4924.00	X	PK	14.00	H	7.68	0.00	33.93	3.00	55.61	73.98	18.37
2462.00	4924.00	X	PK	9.90	V	7.68	0.00	33.93	3.00	51.51	73.98	22.47
2462.00	4924.00	X	AVG	-11.30	H	7.68	0.00	33.93	3.00	30.31	53.98	23.67
2462.00	4924.00	X	AVG	-12.30	V	7.68	0.00	33.93	3.00	29.31	53.98	24.67
2462.00	7386.00	X	PK	-1.50	H	9.46	0.00	36.09	3.00	44.05	73.98	29.93
2462.00	7386.00	X	PK	-0.40	V	9.46	0.00	36.09	3.00	45.15	73.98	28.83
2462.00	7386.00	X	AVG	-15.10	H	9.46	0.00	36.09	3.00	30.45	53.98	23.53
2462.00	7386.00	X	AVG	-15.00	V	9.46	0.00	36.09	3.00	30.55	53.98	23.43
2462.00	9848.00		PK	-1.90	H	11.18	0.00	37.03	3.00	46.31	53.98	7.67
2462.00	9848.00		PK	-1.50	V	11.18	0.00	37.03	3.00	46.71	53.98	7.27
2462.00	12310.00	X	PK	-3.70	H	12.27	0.00	39.26	3.00	47.83	73.98	26.15
2462.00	12310.00	X	PK	-3.10	V	12.27	0.00	39.26	3.00	48.43	73.98	25.55
2462.00	12310.00	X	AVG	-17.50	H	12.27	0.00	39.26	3.00	34.03	53.98	19.95
2462.00	12310.00	X	AVG	-17.30	V	12.27	0.00	39.26	3.00	34.23	53.98	19.75
2462.00	14772.00		PK	-4.90	H	13.39	0.00	40.36	3.00	48.85	53.98	5.13
2462.00	14772.00		PK	-4.40	V	13.39	0.00	40.36	3.00	49.35	53.98	4.63
2462.00	17234.00		PK	-4.10	H	14.68	0.00	42.42	3.00	53.00	53.98	0.98
2462.00	17234.00		PK	-4.10	V	14.68	0.00	42.42	3.00	53.00	53.98	0.98
2462.00	19696.00	X	PK	-2.80	H	16.20	0.00	44.60	3.00	58.00	73.98	15.98
2462.00	19696.00	X	PK	-2.80	V	16.20	0.00	44.60	3.00	58.00	73.98	15.98
2462.00	19696.00	X	AVG	-16.50	H	16.20	0.00	44.60	3.00	44.30	53.98	9.68
2462.00	19696.00	X	AVG	-16.50	V	16.20	0.00	44.60	3.00	44.30	53.98	9.68
2462.00	22158.00	X	PK	-2.30	H	17.13	0.00	44.67	3.00	59.49	73.98	14.49
2462.00	22158.00	X	PK	-2.50	V	17.13	0.00	44.67	3.00	59.29	73.98	14.69
2462.00	22158.00	X	AVG	-16.40	H	17.13	0.00	44.67	3.00	45.39	53.98	8.59
2462.00	22158.00	X	AVG	-16.30	V	17.13	0.00	44.67	3.00	45.49	53.98	8.49



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

9. ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT are in separate supplementary documents labelled EXTERNAL PHOTOS and INTERNAL PHOTOS.

10. ANNEX-B – Test Setup Photographs

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

11. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_7260-23_FCC 15.247 DTS_	1	Initial release	4/10/2023



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

END OF TEST REPORT
