



Test Report - FCC Part 15.247/ DTS

Applicant: Solid Tech LLC

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature 11/28/2023

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Industrial Inspection & Analysis
13146 NW 86th Drive, Suite 400, Alachua, Florida 32615
(352) 472-5500 / testing@industrial-ia.com

1. Applicant Information

Applicant: Solid Tech LLC
Address: 478 Fillmore Ave NE
Palm Bay, Florida, 32907, 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

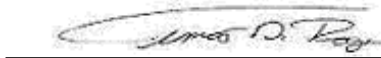
Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA").
Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400,
Alachua, Florida 32615.

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: 11-15-2023 – 11-17-2023

Signature:



Sr. EMC Engineer
EMC-003838-NE



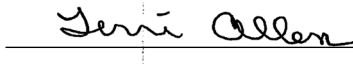
Name & Title:

Tim Royer, EMC Engineer

Date of Signature

11/28/2023

Signature:



Name & Title:

Terri Allen, Project Specialist

Date of Signature

11/28/2023

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

The test sample was received: 11/14/2023

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:	2BA2X-RR3900NA
Brief Description	Radio Control Transceiver
Model(s) #	RR3900NA
Firmware version	n/a
Software version	n/a
Serial Number	n/a

Technical Characteristics	
Frequency Range	905 MHz – 923 MHz
RF O/P Power (Max.)	15.72 dBm / 0.0373 W
Modulation	O-QPSK
Bandwidth	1.22 MHz
Emission Classification	G7D (FH/DSSS)
Number of Channels	16
Voltage Rating (AC or Batt.)	3.3V

3.2 Configuration of EUT

Band (MHz)	Mode	Number of Ant.
905 - 923	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:

No peripherals used.

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	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	12/31/21	12/21/2023
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	7/27/22	7/26/2025
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	1/13/21	1/13/2024
Function Generator	<u>Function Generator</u>	Standford	DS340	25200	1/13/21	1/13/2024
Thermometer	<u>Type K J Thermometer</u>	Martel	303	080504494	1/16/23	1/15/2026
Signal Generator	<u>Signal Generator HP 8648C</u>	HP	8648C	3847A04696	3/31/21	3/30/2024

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.

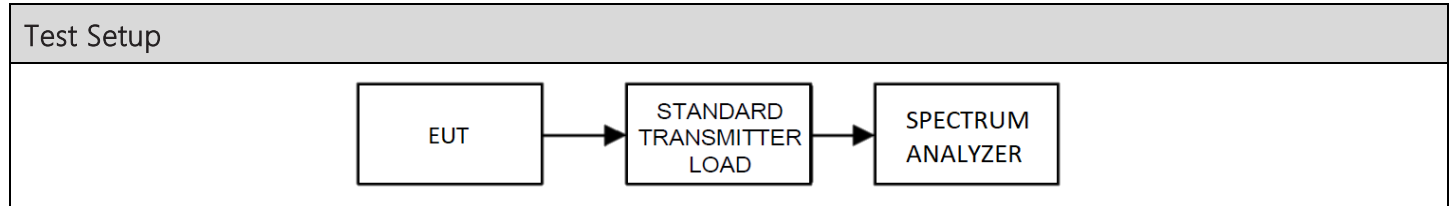
Example:

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

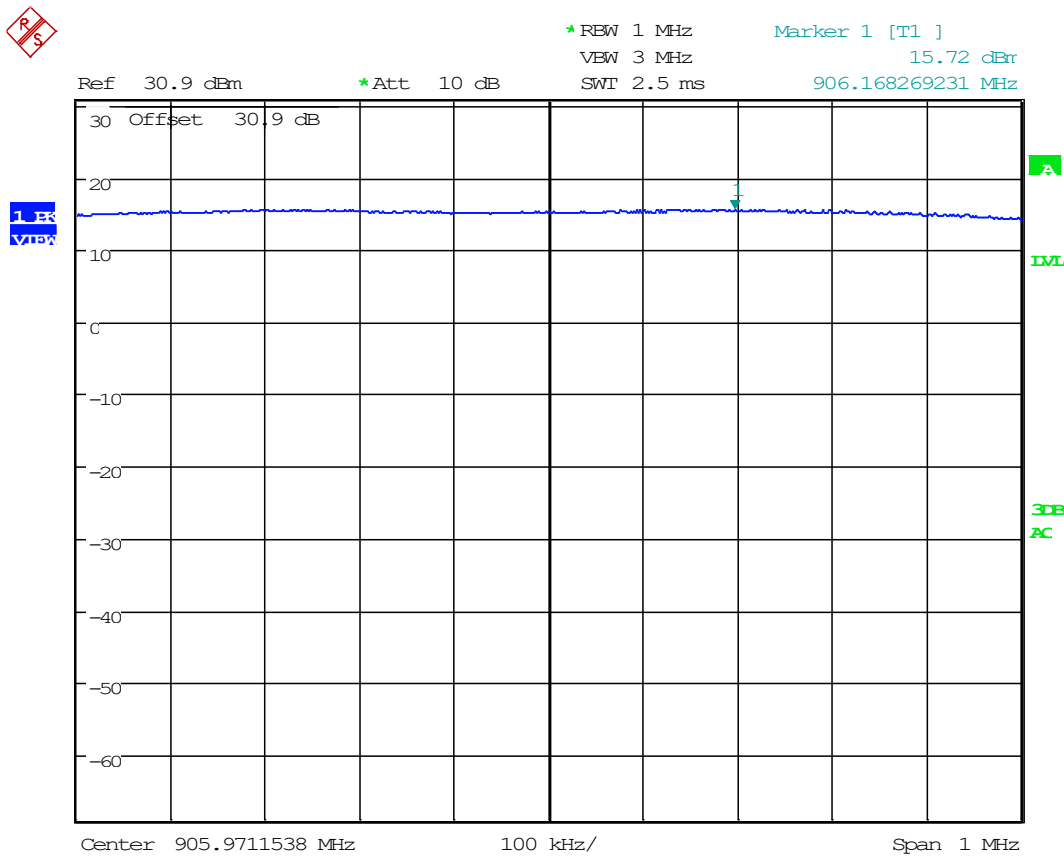


Test Results, Mode 1		
Tuned Frequency (MHz)	Power Output (dBm)	Watts (W)
905	15.72	0.0373 W
915	13.03	0.0200 W
923	12.77	0.0189 W

- MAXIMUM Conducted Output Power = 15.72 dBm

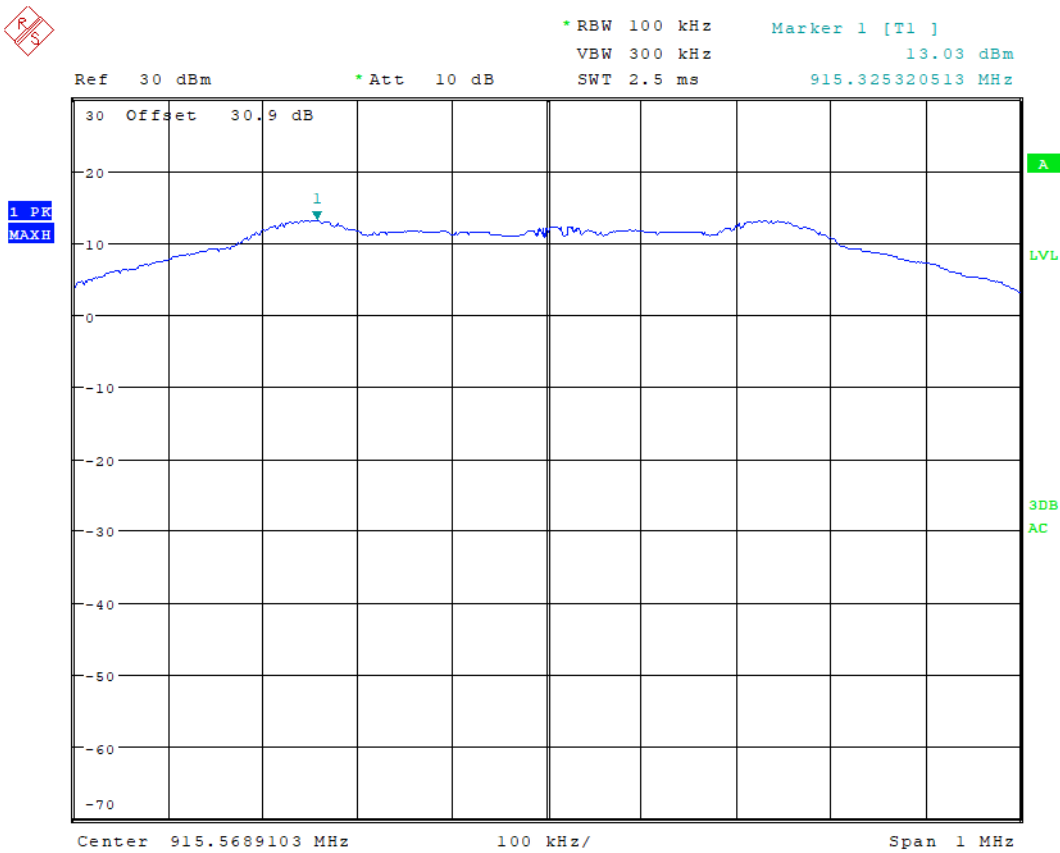
Conducted Output Power, Spectrum Plots

8.1.1 Conducted Output Power, 905 MHz



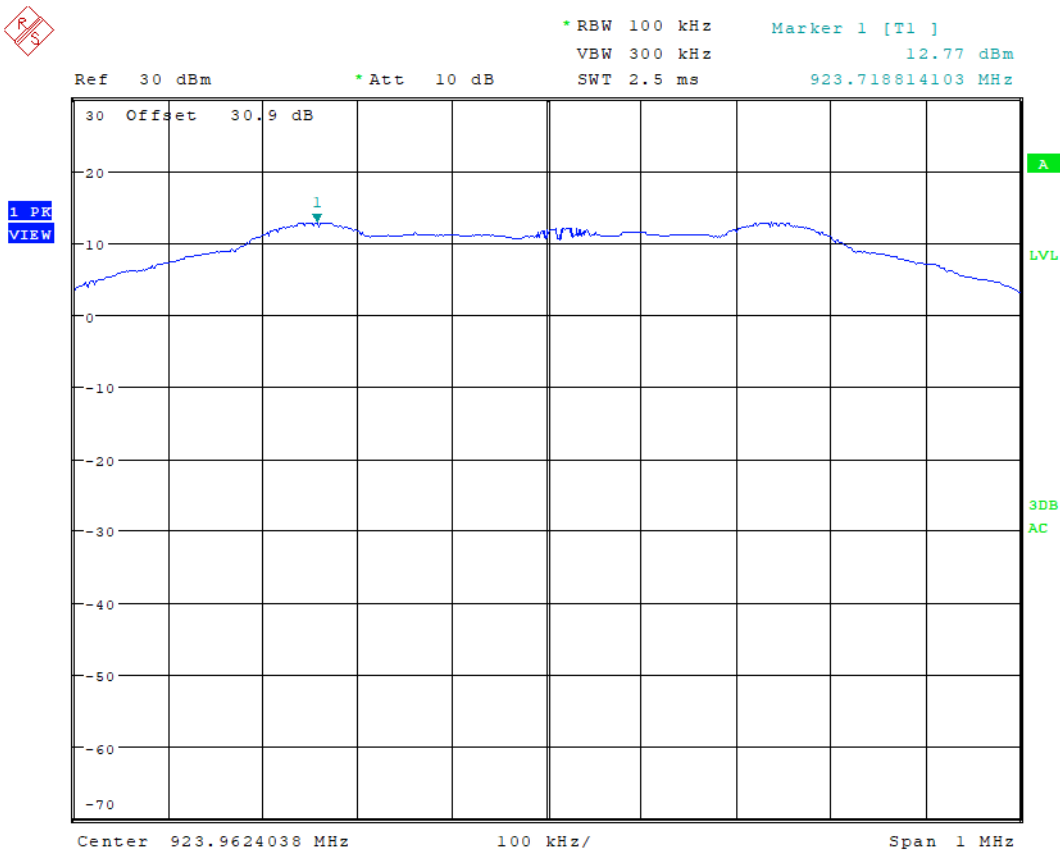
Date: 15.NOV.2023 15:14:33

8.1.2 Conducted Output Power, 915 MHz



Date: 15.NOV.2023 15:16:28

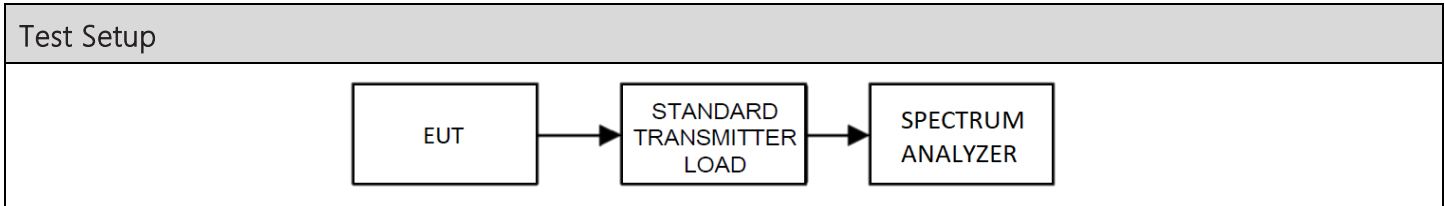
8.1.3 Conducted Output Power, 923 MHz



Date: 15.NOV.2023 15:18:25

8.2 Occupied Bandwidth

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

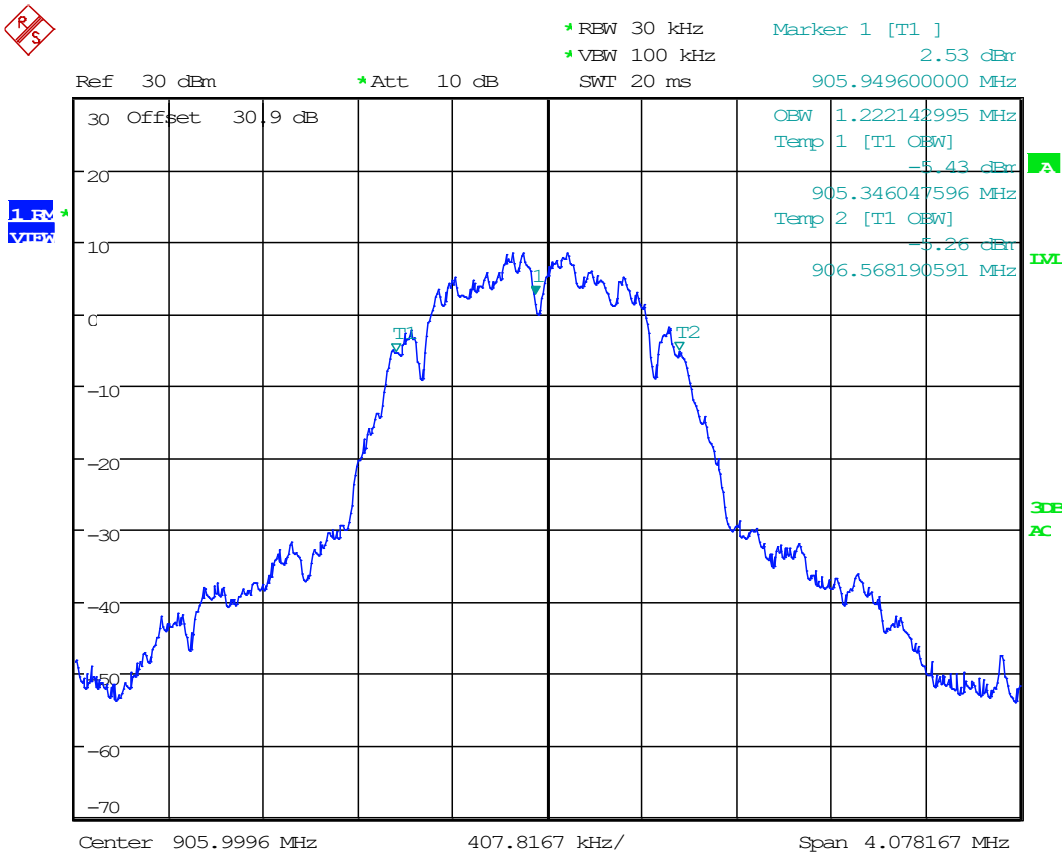


99% BW Test Results

Tuned Frequency (MHz)	99% BW (MHz)
905	1.222
915	1.228
923	1.222

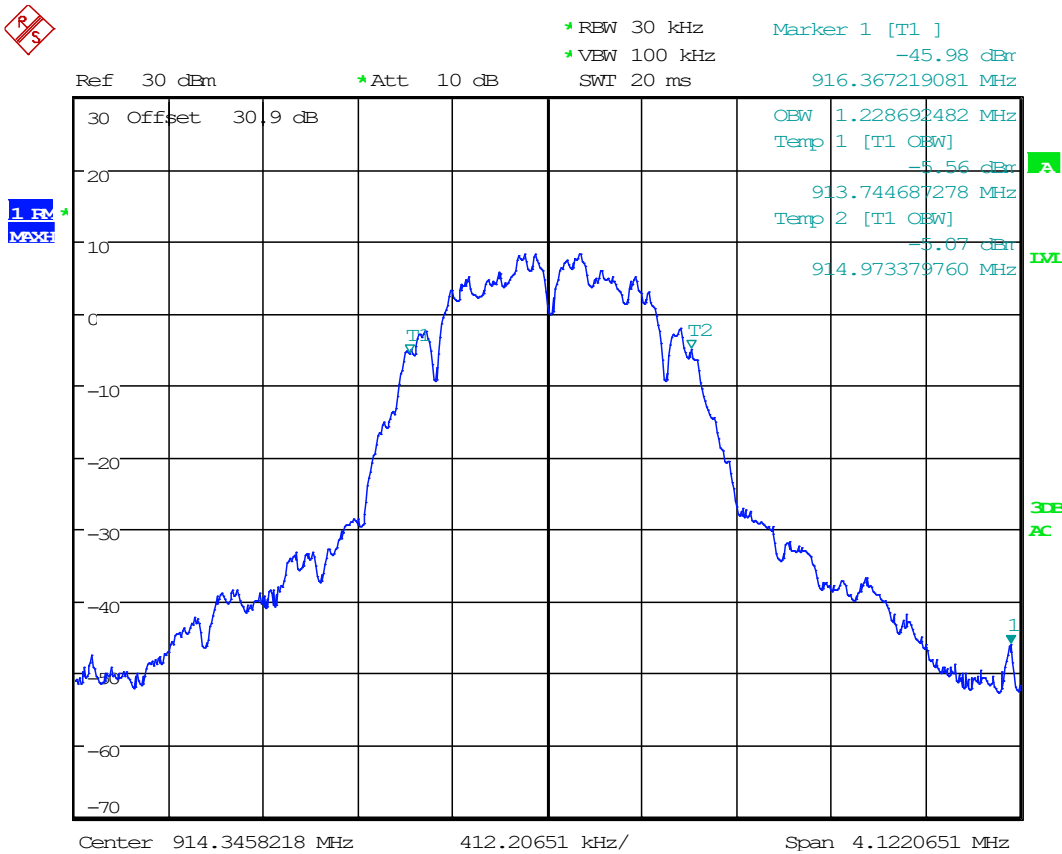
99% Occupied Bandwidth Test Data / Spectrum Plots

8.2.1 99% Bandwidth Plot, 905 MHz



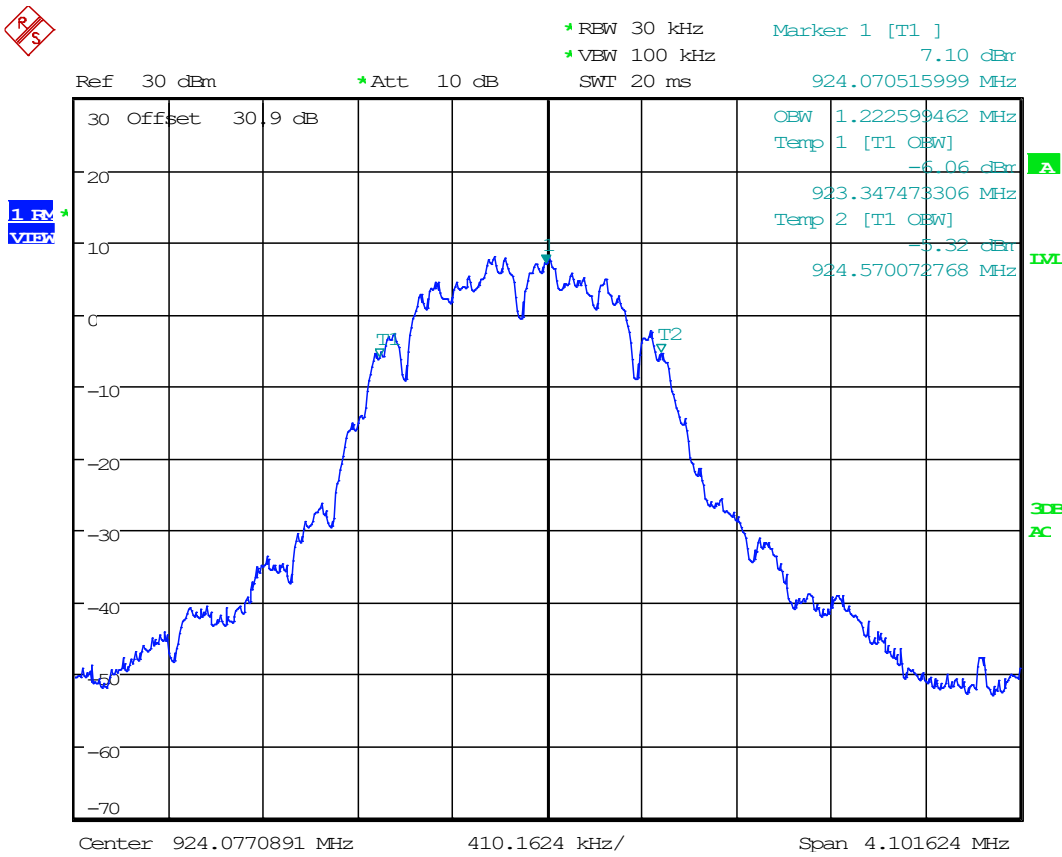
Date: 15.NOV.2023 15:53:17

8.2.2 99% Bandwidth Plot, 915 MHz



Date: 15.NOV.2023 15:28:56

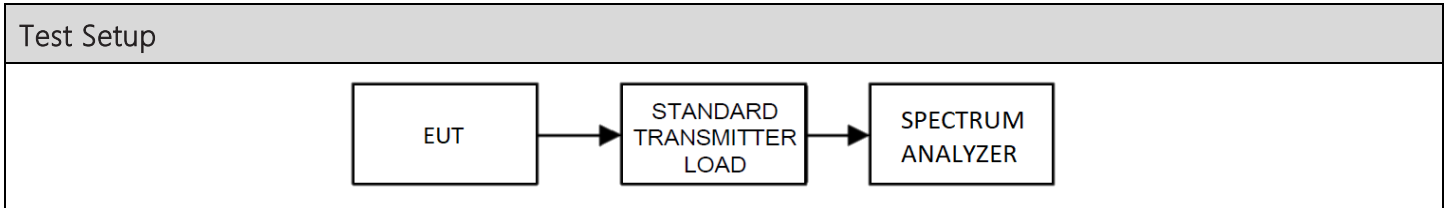
8.2.3 99% Bandwidth Plot, 923 MHz



Date: 15.NOV.2023 15:34:05

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



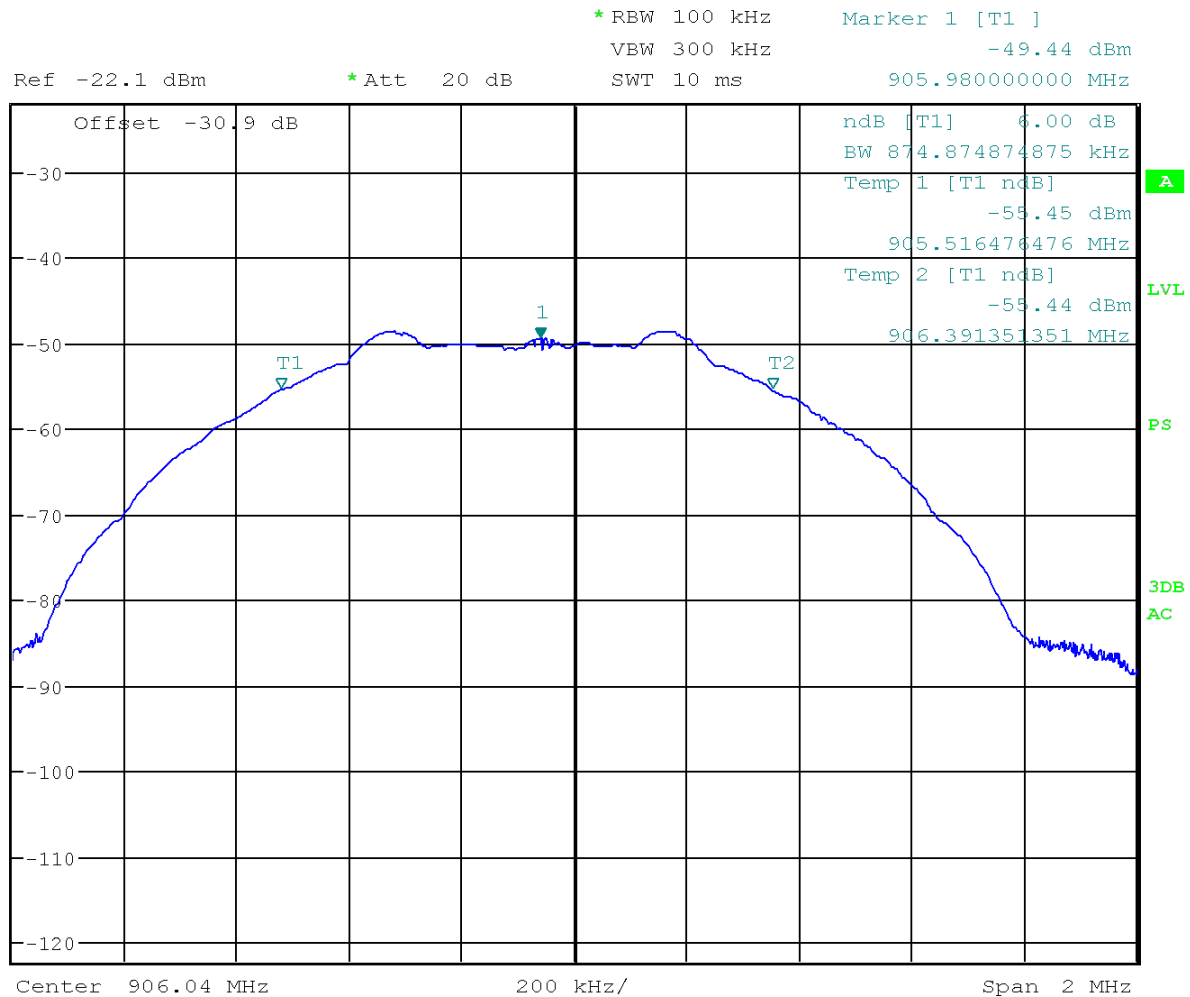
Tuned Frequency (MHz)	6dB Bandwidth (DTS BW) (kHz)
905	874.874
915	827.827
923	828.828

6dB BW Test Data / Spectrum Plots

8.3.1 6dB Bandwidth (DTS BW), 905 MHz



1 PK
VIEW

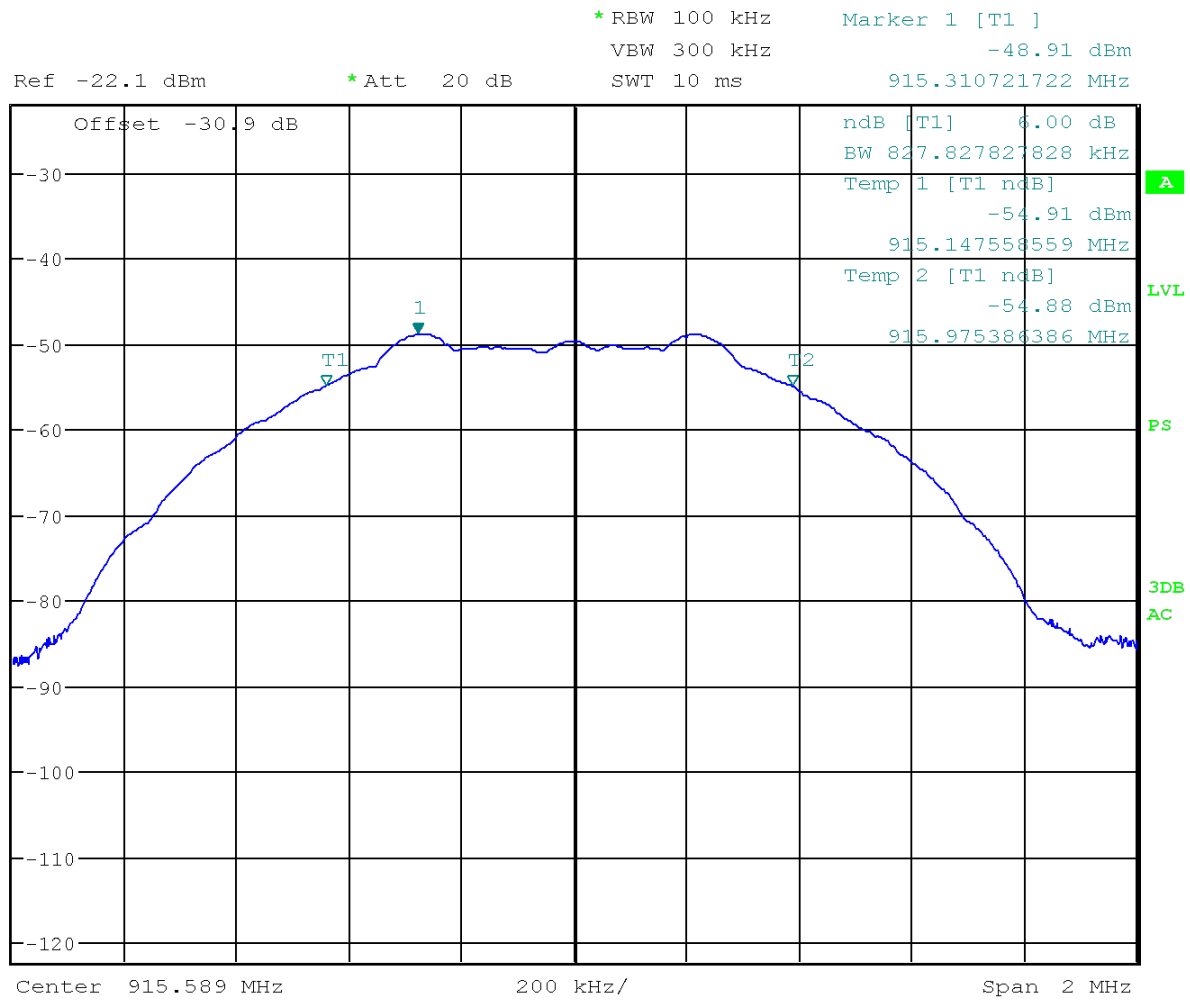


Date: 15.NOV.2023 16:08:04

8.3.2 6dB Bandwidth (DTS BW), 915 MHz



1 PK
MAXH

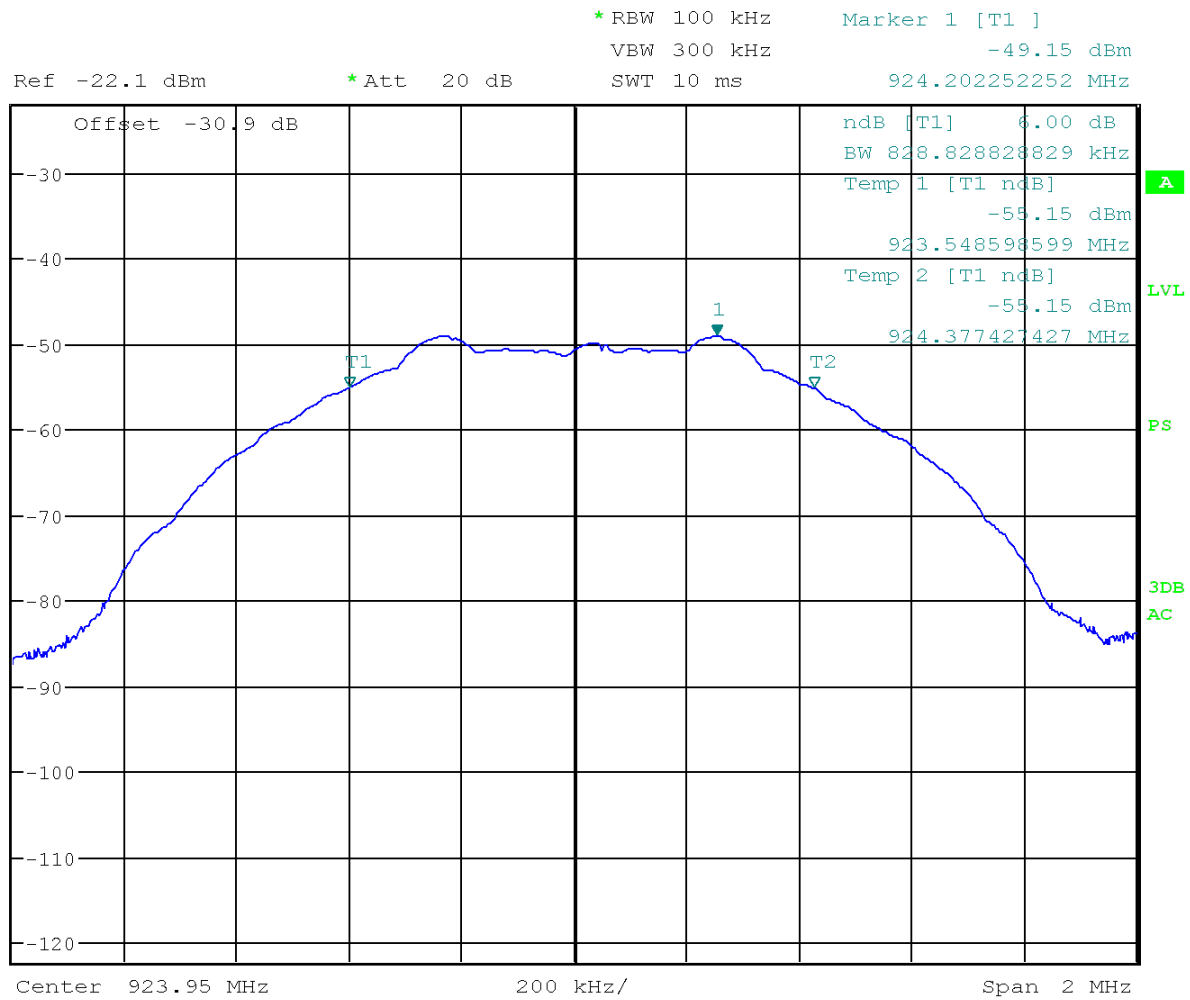


Date: 15.NOV.2023 16:37:31

8.3.3 6dB Bandwidth (DTS BW), 923 MHz



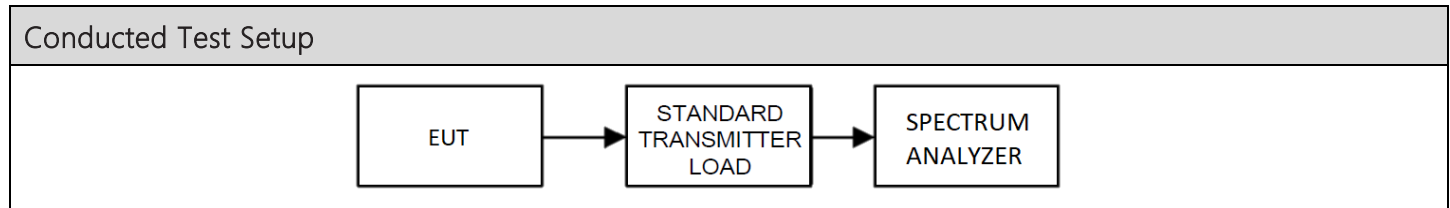
1 PK
VIEW



Date: 15.NOV.2023 16:19:37

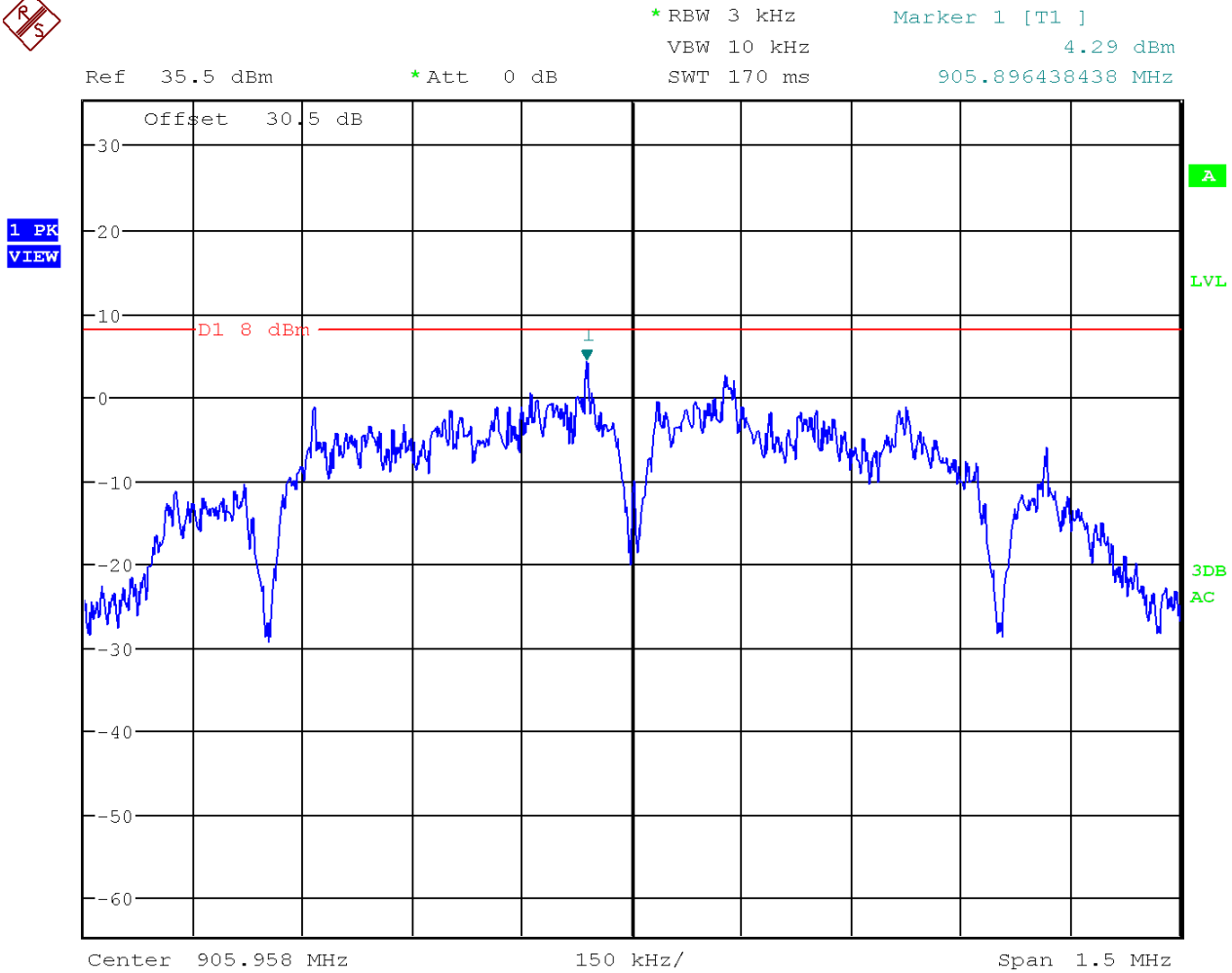
8.4 Power Spectral Density (PSD)

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



Tuned Frequency (MHz)	PSD Level (dBm)
905	4.29
915	4.04
923	3.72

8.4.1 Power Spectral Density (PSD), 905 MHz



Date: 15.NOV.2023 16:51:16

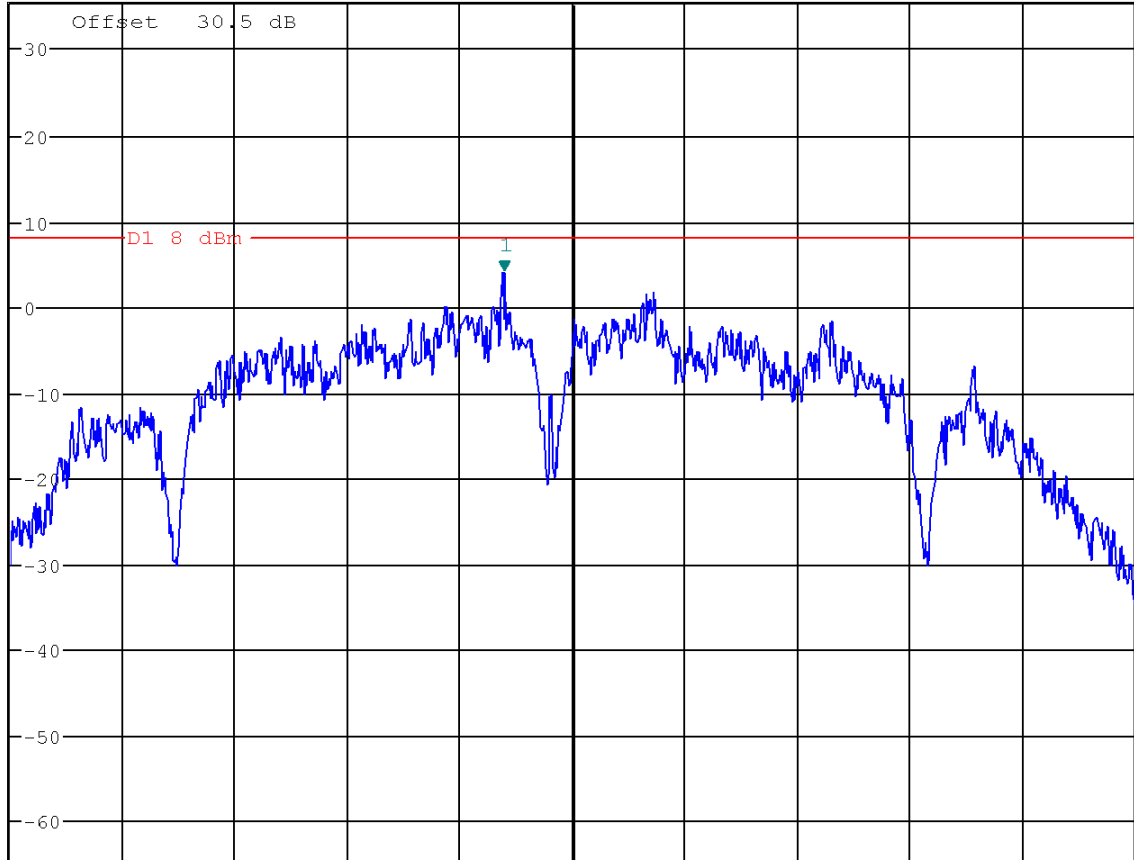
8.4.2 Power Spectral Density (PSD), 915 MHz



* RBW 3 kHz Marker 1 [T1]
 VBW 10 kHz 4.04 dBm
 SWT 170 ms 915.496657658 MHz

Ref 35.5 dBm

* Att 0 dB



Center 915.589 MHz

150 kHz/

Span 1.5 MHz

Date: 15.NOV.2023 16:50:19

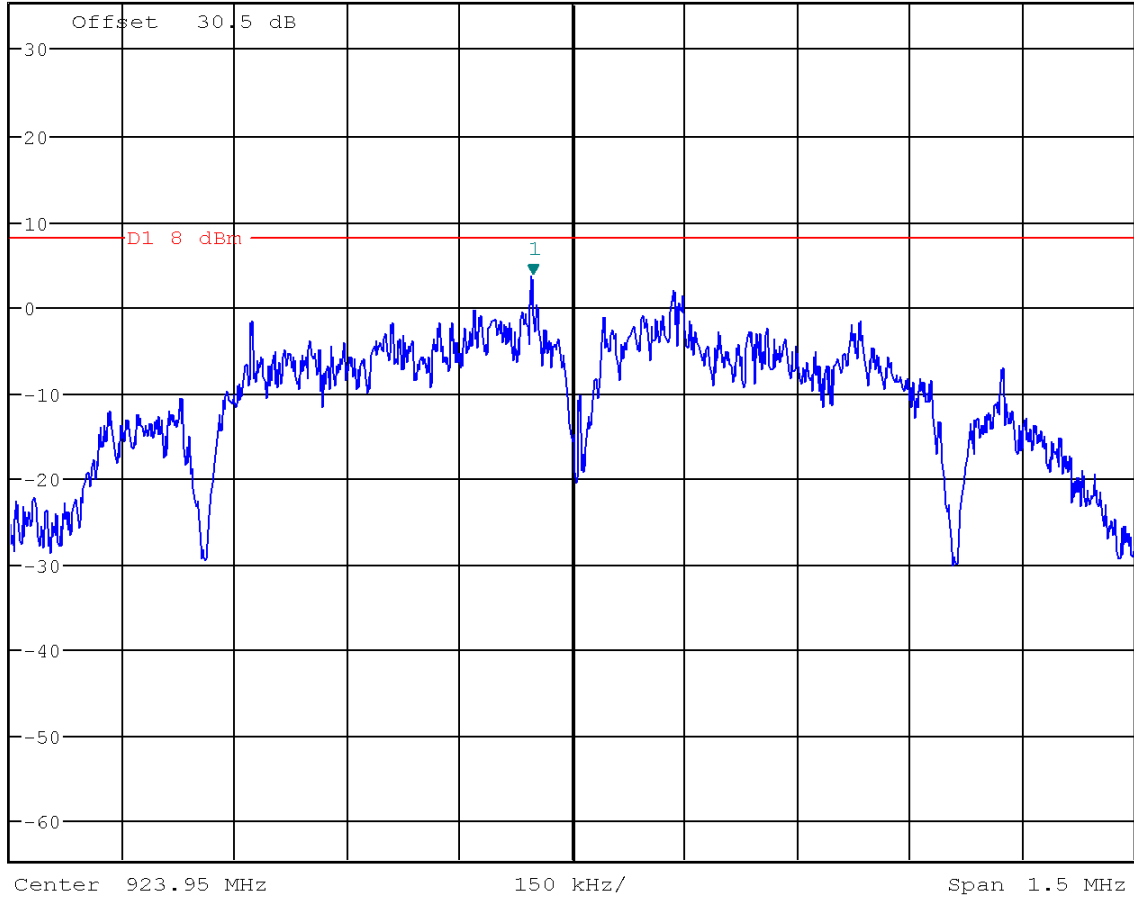
8.4.3 Power Spectral Density (PSD), 923 MHz



* RBW 3 kHz Marker 1 [T1]
VBW 10 kHz 3.72 dBm
SWT 170 ms 923.895945946 MHz

Ref 35.5 dBm

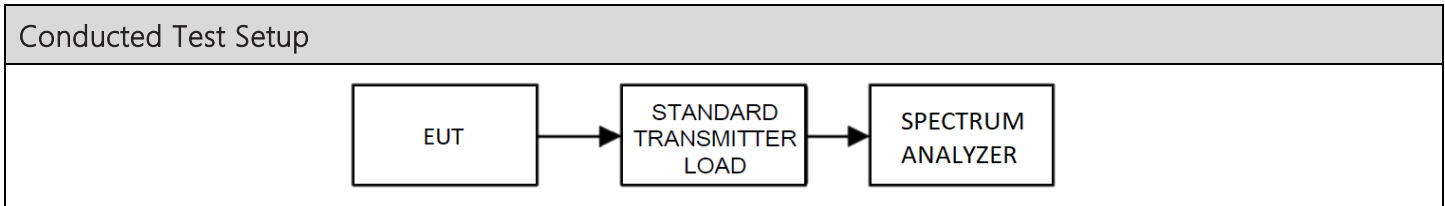
* Att 0 dB



Date: 15.NOV.2023 16:49:49

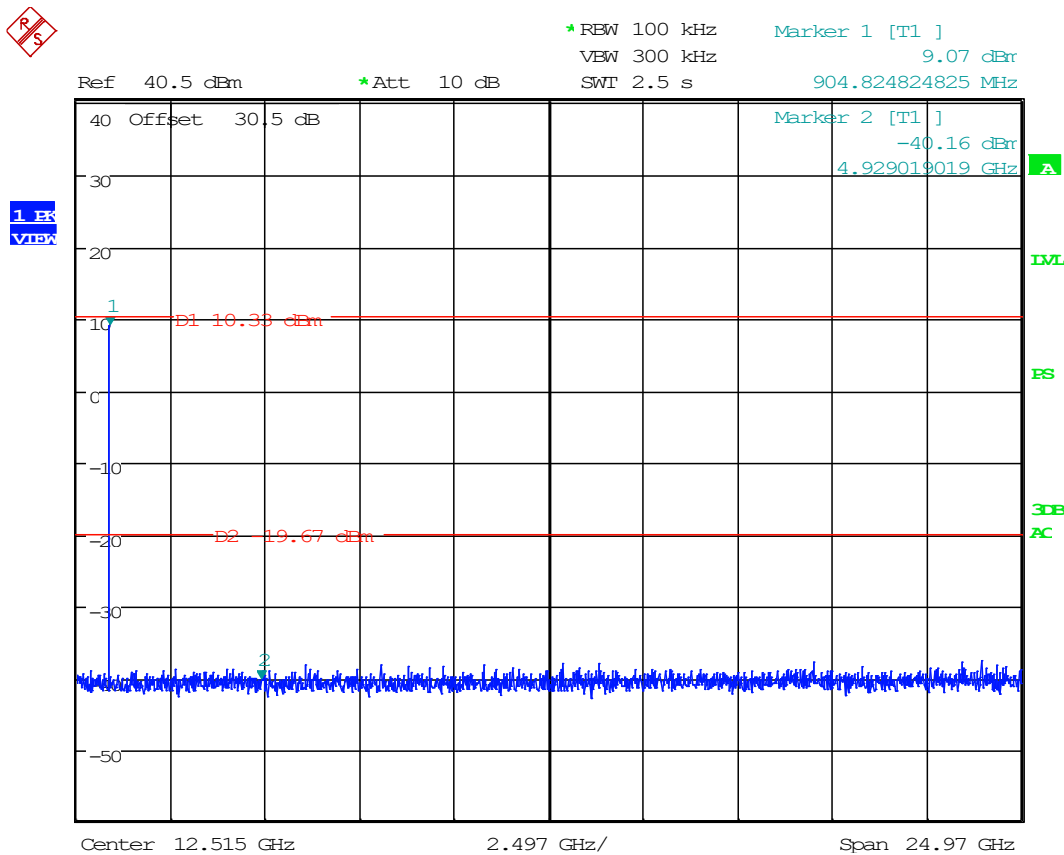
8.5 Emissions in Nonrestricted Frequency Bands (Out of Band)

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.



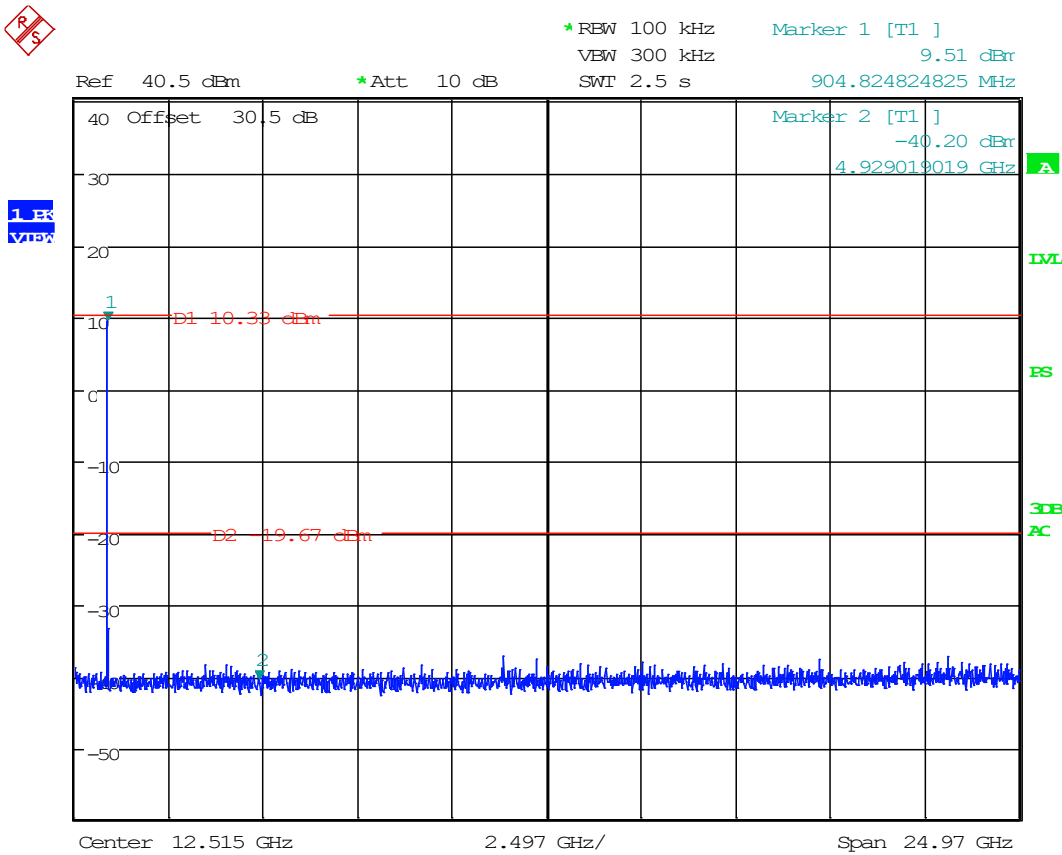
Conducted Emissions in Non-Restricted Bands, Spectrum Plots

8.5.1 Conducted Emissions Plot, 905 MHz



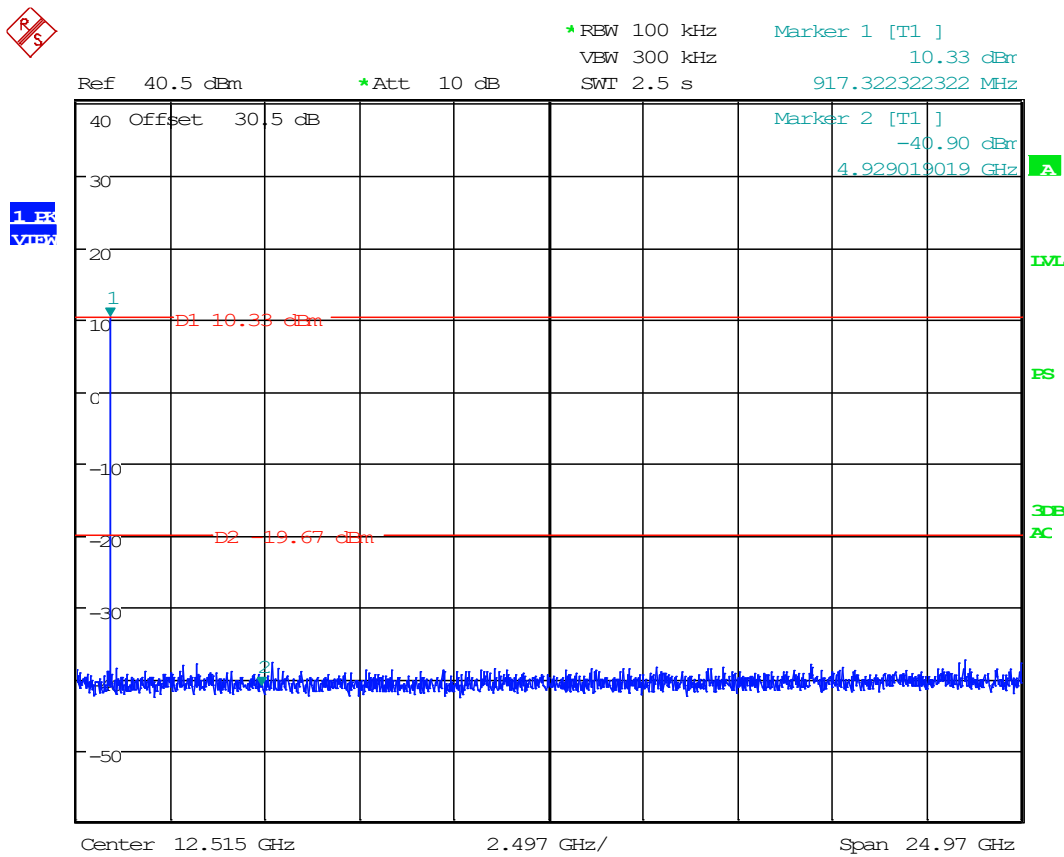
Date: 15.NOV.2023 16:44:09

8.5.2 Conducted Emissions Plot, 915 MHz



Date: 15.NOV.2023 16:43:31

8.5.3 Conducted Emissions Plot, 923 MHz

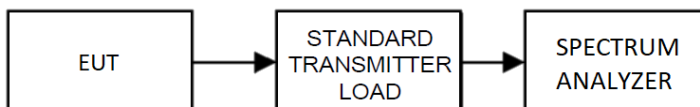


Date: 15.NOV.2023 16:42:44

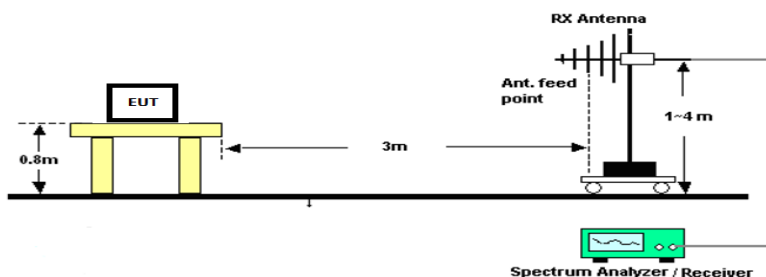
8.6 Band-edge measurements

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

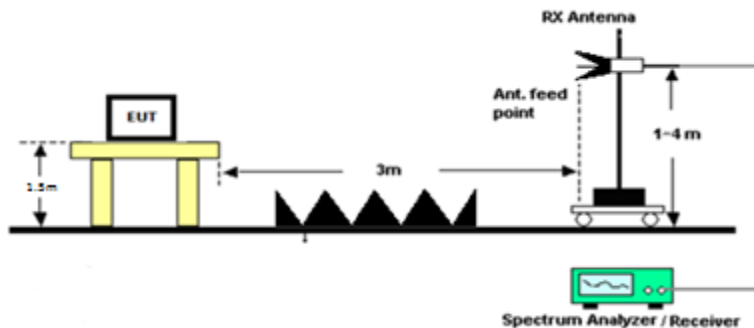
Conducted Test Setup



Radiated Test Setup, 30 – 1000 MHz

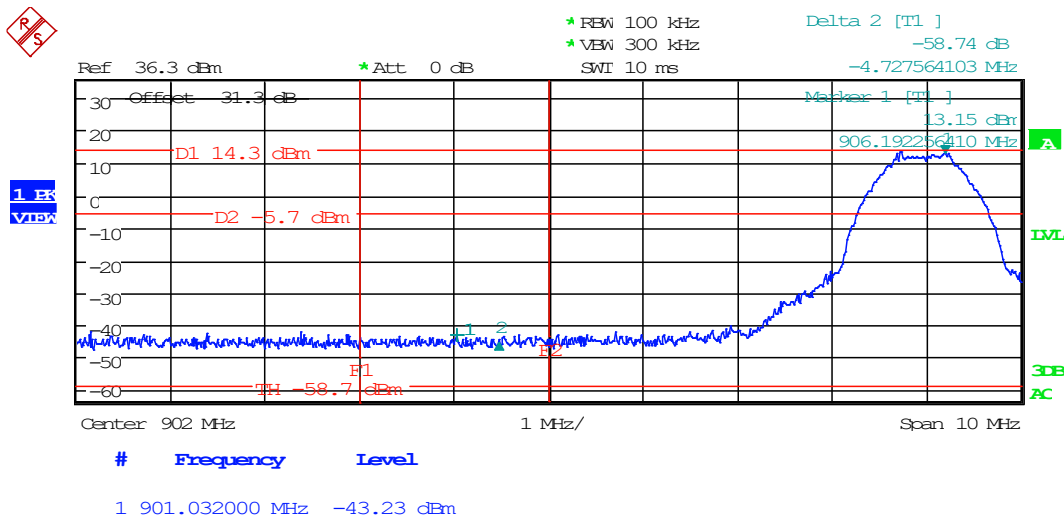


Radiated Test Setup, Above 1000 MHz



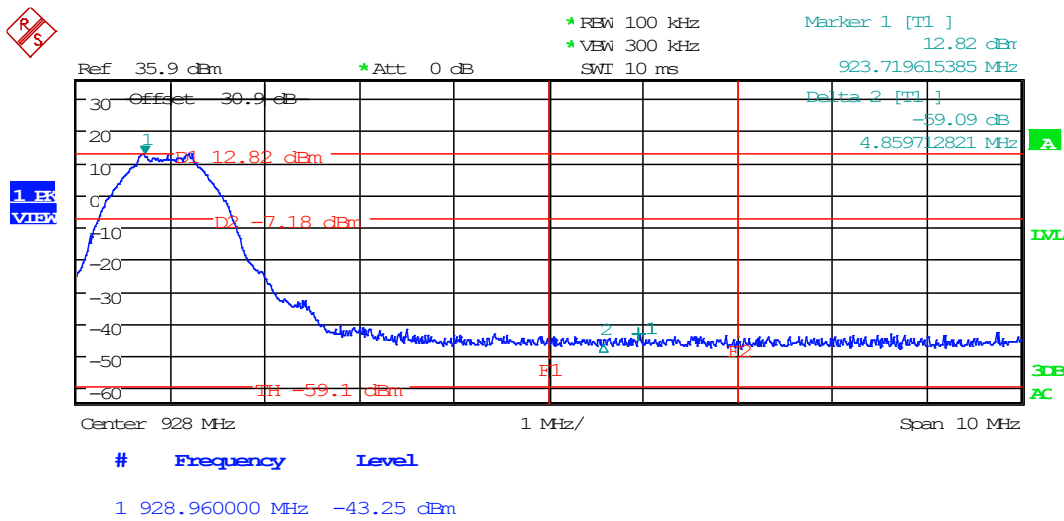
Band-edge Spectrum Plots

8.6.1 Lower Band Edge Plot



Date: 15.NOV.2023 16:46:24

8.6.2 Upper Band Edge Plot

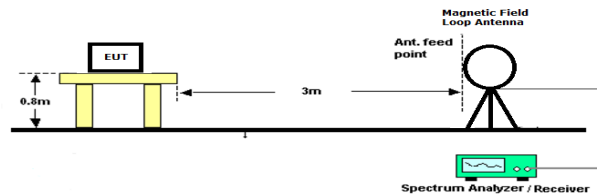


Date: 15.NOV.2023 16:48:09

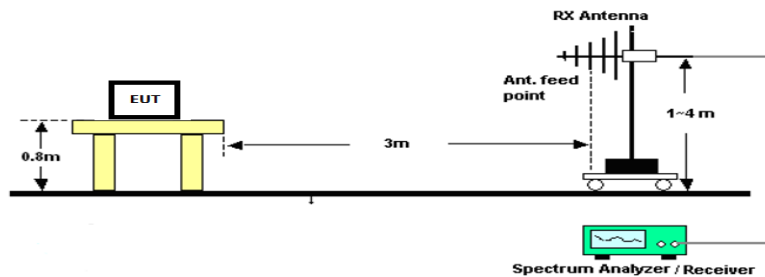
8.7 Radiated Emissions

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

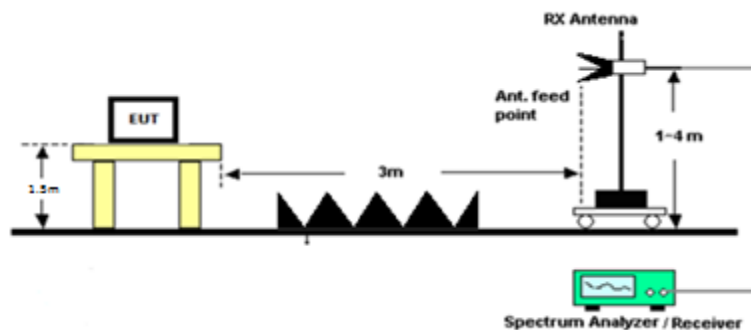
Radiated Test Setup, Below 30 MHz



Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



Radiated Emissions in Restricted Bands, Tabular Data

8.7.1 Radiated Emissions, 905 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)
905.96	1811.92		PK	20.90	H	4.91	0.00	27.77	3.00	53.58	53.98	0.40
905.96	1811.92		PK	13.30	V	4.91	0.00	27.77	3.00	45.98	53.98	8.00
905.96	2717.87	X	PK	10.60	H	6.02	0.00	28.85	3.00	45.47	73.98	28.51
905.96	2717.87	X	PK	7.60	V	6.02	0.00	28.85	3.00	42.47	73.98	31.51
905.96	2717.87	X	AVG	-8.20	H	6.02	0.00	28.85	3.00	26.67	53.98	27.31
905.96	2717.87	X	AVG	-9.80	V	6.02	0.00	28.85	3.00	25.07	53.98	28.91
905.96	3623.83	X	PK	1.40	H	6.62	0.00	27.68	3.00	35.70	73.98	38.28
905.96	3623.83	X	PK	1.50	V	6.62	0.00	27.68	3.00	35.80	73.98	38.18
905.96	3623.83	X	AVG	-12.60	H	6.62	0.00	27.68	3.00	21.70	53.98	32.28
905.96	3623.83	X	AVG	-12.70	V	6.62	0.00	27.68	3.00	21.60	53.98	32.38
905.96	4529.79	X	PK	0.00	H	7.42	0.00	29.37	3.00	36.79	73.98	37.19
905.96	4529.79	X	PK	0.00	V	7.42	0.00	29.37	3.00	36.79	73.98	37.19
905.96	4529.79	X	AVG	-14.40	H	7.42	0.00	29.37	3.00	22.39	53.98	31.59
905.96	4529.79	X	AVG	-14.40	V	7.42	0.00	29.37	3.00	22.39	53.98	31.59
905.96	5435.75	X	PK	-0.30	H	8.14	0.00	31.41	3.00	39.25	73.98	34.73
905.96	5435.75	X	PK	-0.80	V	8.14	0.00	31.41	3.00	38.75	73.98	35.23
905.96	5435.75	X	AVG	-15.20	H	8.14	0.00	31.41	3.00	24.35	53.98	29.63
905.96	5435.75	X	AVG	-15.20	V	8.14	0.00	31.41	3.00	24.35	53.98	29.63
905.96	6341.71		PK	0.40	H	8.76	0.00	31.49	3.00	40.65	53.98	13.33
905.96	6341.71		PK	0.90	V	8.76	0.00	31.49	3.00	41.15	53.98	12.83
905.96	7247.66		PK	1.60	H	9.51	0.00	31.87	3.00	42.98	53.98	11.00
905.96	7247.66		PK	1.20	V	9.51	0.00	31.87	3.00	42.58	53.98	11.40
905.96	8153.62	X	PK	3.50	H	9.90	0.00	32.33	3.00	45.73	73.98	28.25
905.96	8153.62	X	PK	3.00	V	9.90	0.00	32.33	3.00	45.23	73.98	28.75
905.96	8153.62	X	AVG	-10.60	H	9.90	0.00	32.33	3.00	31.63	53.98	22.35
905.96	8153.62	X	AVG	-10.50	V	9.90	0.00	32.33	3.00	31.73	53.98	22.25
905.96	9059.58	X	PK	4.30	H	10.78	0.00	32.60	3.00	47.68	73.98	26.30
905.96	9059.58	X	PK	4.00	V	10.78	0.00	32.60	3.00	47.38	73.98	26.60
905.96	9059.58	X	AVG	-9.30	H	10.78	0.00	32.60	3.00	34.08	53.98	19.90
905.96	9059.58	X	AVG	-9.30	V	10.78	0.00	32.60	3.00	34.08	53.98	19.90

8.7.2 Radiated Emissions, 915 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)
915.59	1831.18		PK	21.00	H	4.94	0.00	27.78	3.00	53.72	53.98	0.26
915.59	1831.18		PK	18.80	V	4.94	0.00	27.78	3.00	51.52	53.98	2.46
915.59	2746.77	X	PK	8.90	H	6.09	0.00	28.77	3.00	43.76	73.98	30.22
915.59	2746.77	X	PK	5.00	V	6.09	0.00	28.77	3.00	39.86	73.98	34.12
915.59	2746.77	X	AVG	-8.40	H	6.09	0.00	28.77	3.00	26.46	53.98	27.52
915.59	2746.77	X	AVG	-10.60	V	6.09	0.00	28.77	3.00	24.26	53.98	29.72
915.59	3662.36	X	PK	2.10	H	6.62	0.00	27.67	3.00	36.39	73.98	37.59
915.59	3662.36	X	PK	2.70	V	6.62	0.00	27.67	3.00	36.99	73.98	36.99
915.59	3662.36	X	AVG	-11.90	H	6.62	0.00	27.67	3.00	22.39	53.98	31.59
915.59	3662.36	X	AVG	-12.00	V	6.62	0.00	27.67	3.00	22.29	53.98	31.69
915.59	4577.95	X	PK	1.60	H	7.53	0.00	29.45	3.00	38.58	73.98	35.40
915.59	4577.95	X	PK	1.60	V	7.53	0.00	29.45	3.00	38.58	73.98	35.40
915.59	4577.95	X	AVG	-12.40	H	7.53	0.00	29.45	3.00	24.58	53.98	29.40
915.59	4577.95	X	AVG	-12.50	V	7.53	0.00	29.45	3.00	24.48	53.98	29.50
915.59	5493.53		PK	1.10	H	8.07	0.00	31.48	3.00	40.65	53.98	13.33
915.59	5493.53		PK	1.20	V	8.07	0.00	31.48	3.00	40.75	53.98	13.23
915.59	6409.12		PK	1.40	H	8.95	0.00	31.48	3.00	41.83	53.98	12.15
915.59	6409.12		PK	1.20	V	8.95	0.00	31.48	3.00	41.63	53.98	12.35
915.59	7324.71	X	PK	0.10	H	9.59	0.00	31.90	3.00	41.59	73.98	32.39
915.59	7324.71	X	PK	0.50	V	9.59	0.00	31.90	3.00	41.99	73.98	31.99
915.59	7324.71	X	AVG	-13.50	H	9.59	0.00	31.90	3.00	27.99	53.98	25.99
915.59	7324.71	X	AVG	-13.50	V	9.59	0.00	31.90	3.00	27.99	53.98	25.99
915.59	8240.30	X	PK	4.00	H	10.02	0.00	32.34	3.00	46.36	73.98	27.62
915.59	8240.30	X	PK	4.20	V	10.02	0.00	32.34	3.00	46.56	73.98	27.42
915.59	8240.30	X	AVG	-9.70	H	10.02	0.00	32.34	3.00	32.66	53.98	21.32
915.59	8240.30	X	AVG	-9.70	V	10.02	0.00	32.34	3.00	32.66	53.98	21.32
915.59	9155.89	X	PK	4.20	H	10.84	0.00	32.57	3.00	47.60	73.98	26.38
915.59	9155.89	X	PK	3.90	V	10.84	0.00	32.57	3.00	47.30	73.98	26.68
915.59	9155.89	X	AVG	-9.40	H	10.84	0.00	32.57	3.00	34.00	53.98	19.98
915.59	9155.89	X	AVG	-9.50	V	10.84	0.00	32.57	3.00	33.90	53.98	20.08

8.7.3 Radiated Emissions, 923 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)
923.50	1847.00		PK	21.20	H	4.97	0.00	27.78	3.00	53.95	53.98	0.03
923.50	1847.00		PK	19.40	V	4.97	0.00	27.78	3.00	52.15	53.98	1.83
923.50	2770.50	X	PK	7.20	H	6.13	0.00	28.70	3.00	42.03	73.98	31.95
923.50	2770.50	X	PK	5.80	V	6.13	0.00	28.70	3.00	40.63	73.98	33.35
923.50	2770.50	X	AVG	-10.90	H	6.13	0.00	28.70	3.00	23.93	53.98	30.05
923.50	2770.50	X	AVG	-11.80	V	6.13	0.00	28.70	3.00	23.03	53.98	30.95
923.50	3694.00	X	PK	-1.20	H	6.61	0.00	27.69	3.00	33.10	73.98	40.88
923.50	3694.00	X	PK	-0.20	V	6.61	0.00	27.69	3.00	34.10	73.98	39.88
923.50	3694.00	X	AVG	-15.30	H	6.61	0.00	27.69	3.00	19.00	53.98	34.98
923.50	3694.00	X	AVG	-15.30	V	6.61	0.00	27.69	3.00	19.00	53.98	34.98
923.50	4617.50	X	PK	1.20	H	7.56	0.00	29.51	3.00	38.27	73.98	35.71
923.50	4617.50	X	PK	0.70	V	7.56	0.00	29.51	3.00	37.77	73.98	36.21
923.50	4617.50	X	AVG	-13.60	H	7.56	0.00	29.51	3.00	23.47	53.98	30.51
923.50	4617.50	X	AVG	-13.60	V	7.56	0.00	29.51	3.00	23.47	53.98	30.51
923.50	5541.00		PK	0.50	H	8.06	0.00	31.43	3.00	39.99	53.98	13.99
923.50	5541.00		PK	0.30	V	8.06	0.00	31.43	3.00	39.79	53.98	14.19
923.50	6464.50		PK	1.20	H	9.01	0.00	31.46	3.00	41.67	53.98	12.31
923.50	6464.50		PK	1.30	V	9.01	0.00	31.46	3.00	41.77	53.98	12.21
923.50	7388.00	X	PK	-0.20	H	9.46	0.00	31.93	3.00	41.19	73.98	32.79
923.50	7388.00	X	PK	0.20	V	9.46	0.00	31.93	3.00	41.59	73.98	32.39
923.50	7388.00	X	AVG	-14.00	H	9.46	0.00	31.93	3.00	27.39	53.98	26.59
923.50	7388.00	X	AVG	-14.00	V	9.46	0.00	31.93	3.00	27.39	53.98	26.59
923.50	8311.50	X	PK	3.80	H	10.10	0.00	32.32	3.00	46.22	73.98	27.76
923.50	8311.50	X	PK	3.60	V	10.10	0.00	32.32	3.00	46.02	73.98	27.96
923.50	8311.50	X	AVG	-9.80	H	10.10	0.00	32.32	3.00	32.62	53.98	21.36
923.50	8311.50	X	AVG	3.20	V	10.10	0.00	32.32	3.00	45.62	53.98	8.36
923.50	9235.00		PK	3.80	H	10.89	0.00	32.53	3.00	47.22	53.98	6.76
923.50	9235.00		PK	3.70	V	10.89	0.00	32.53	3.00	47.12	53.98	6.86

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_10959-23_FCC 15.247 DTS_	1	Initial release	11/28/2023
	2	Updated Page 7	1/2/2024



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END OF TEST REPORT
