



Test Report – FCC Part 74H Low Power Licensed Wireless Microphone Applicant: Zaxcom, Inc

Signature:

A handwritten signature in black ink, appearing to read "Tim Royer".

Sr. EMC Engineer
EMC-003838-NE



Name & Title:

Tim Royer, EMC Engineer

Date of Signature

01/06/2025

Signature:

A handwritten signature in black ink, appearing to read "Kristoffer Costa".

Name & Title:

Kristoffer Costa, EMC Technician

Date of Signature

01/06/2025

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: Zaxcom, Inc
Address: 230 West Parkway
Unit 9
Pompton Plains, New Jersey, 07444, United States

1.1 Test Result Summary

The following test procedure was used ANSI C63.26 and KDB 206256 D01 Wireless Microphone Certification. 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.

Clauses	Description of the Requirements	Result (Pass, Fail or N/A)
PART 2.1046(a), 74.861(e) (1) (ii), (iii)	Conducted Power	Pass
2.1049(c), 74.861(d)(4)(i)	Occupied Bandwidth	Pass
74.861(e)(7), ETSI EN 300-422-1 s. 8.3.2	Unwanted Emissions	Pass
2.1051(a), 74.861(e)(6)(iii)	Spurious Emissions at Antenna Terminal (Conducted)	Pass
2.1053, 74.861(e)(6)(iii)	Radiated Field Strength of Spurious Emissions	Pass
2.1053, 74.861(e) (4)	Frequency Stability	Pass

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

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

The test sample was received: 9/26/2024

Dates of Testing: 9/30/2024 – 11/12/2024

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:	PR6VTX
Brief Description	FM/QPSK Transmitter
Model(s) #	VTX1
Firmware version	0.50
Software version	N/A
Serial Number	1006

Technical Characteristics	
Frequency Range	192-215 MHz
RF O/P Power (Max.)	100mW
Modulation	FM, QPSK
Bandwidth & Emission Class	FM, QPSK
Number of Channels	N/A
Duty Cycle	100%
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	3.3VDC

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	n/a	n/a	0 dBi

- 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				
Mode (#)	Mode (Type)	Test Frequencies (MHz)	BW (nominal) (kHz)	Emission Designator
1	FM, QPSK	192 MHz 200 MHz 215 MHz	22.9- Analog 106.69- Digital	FM, QPSK

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

The measurement was performed as per ANSI C63.2 and KDB 206256 D01 Wireless Microphone Certification. Full test results are available in this report.

Limits and Regulatory Limits:

- 1) FCC Part 74 H (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

Temperature & Humidity

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

Parameter	Measurement
Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric Pressure	30.05 in Hg
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.

List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	5/4/21	12/18/2024
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	5/31/23	12/18/2024
CHAMBER	CHAMBER	Panashield	3M	N/A	12/29/23	12/18/2025
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	7/27/22	7/26/2025
Receiver	EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	9/18/24	9/18/2027
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	10/13/21	12/12/2024
Signal Generator	Signal Generator HP 8648C	HP	8648C	35537A01679	8/4/22	8/03/2025
Thermometer	Type K J Thermometer	Martel	303	080504494	1/16/23	1/15/2026

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).

Units of measurement

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.

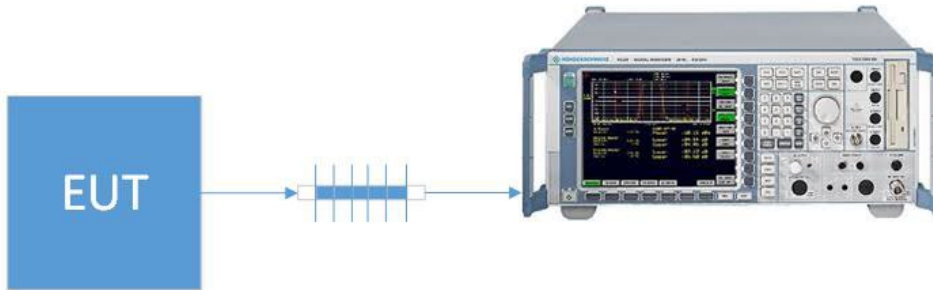
Example:

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

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

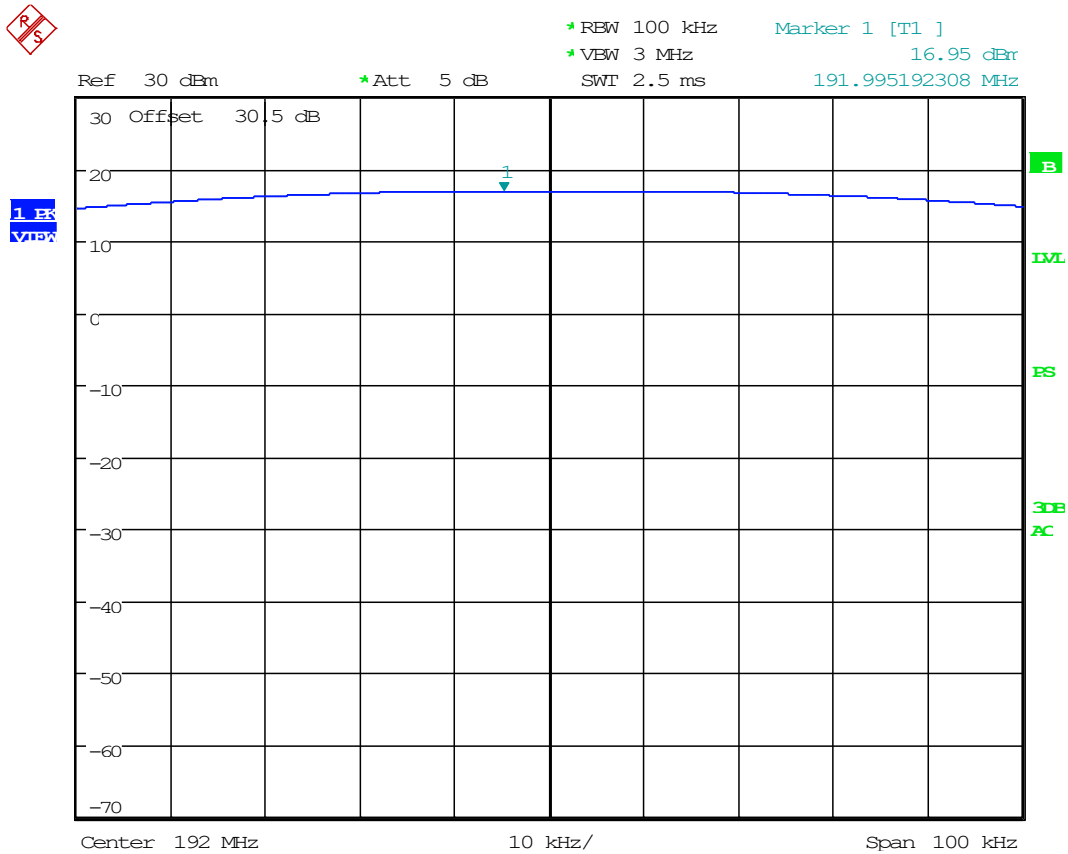
8.1 RF POWER OUTPUT

Limits from 2.1046(a), 74.861(e) (1) (ii) and test procedure from ANSI C63.26 and KDB 206256 D01 Wireless Microphone Certification.



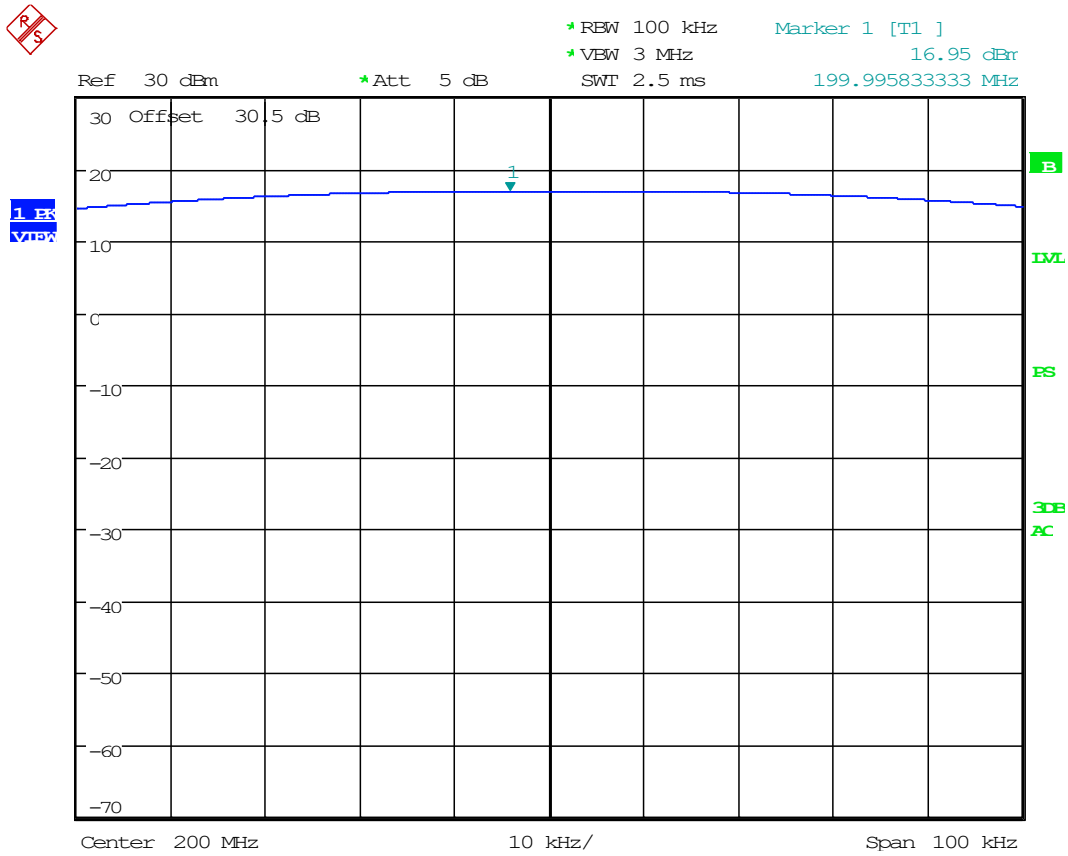
Test Results, Mode 1				
Mode	Tuned Frequency (MHz)	Power Output (dBm)	Power Output (W)	EIRP
1	192	16.95	0.049	16.95
1	200	16.95	0.049	16.95
1	215	16.89	0.048	16.89

8.1.1 RF Power Output Plot, 192 MHz



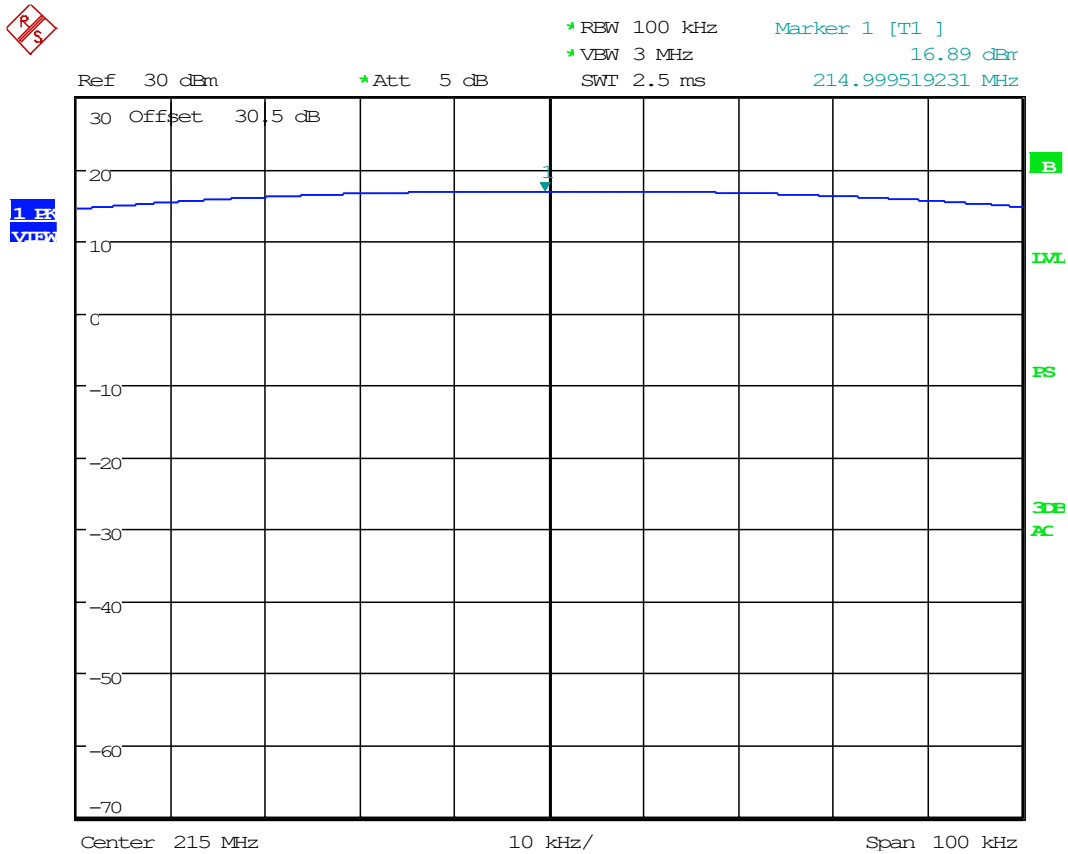
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8.1.2 RF Power Output Plot, 200 MHz



Date: 30.SEP.2024 13:17:16

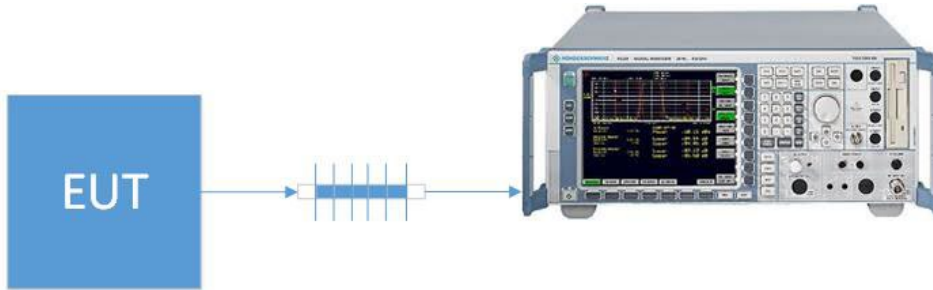
8.1.3 RF Power Output Plot, 215 MHz



Date: 30.SEP.2024 13:14:41

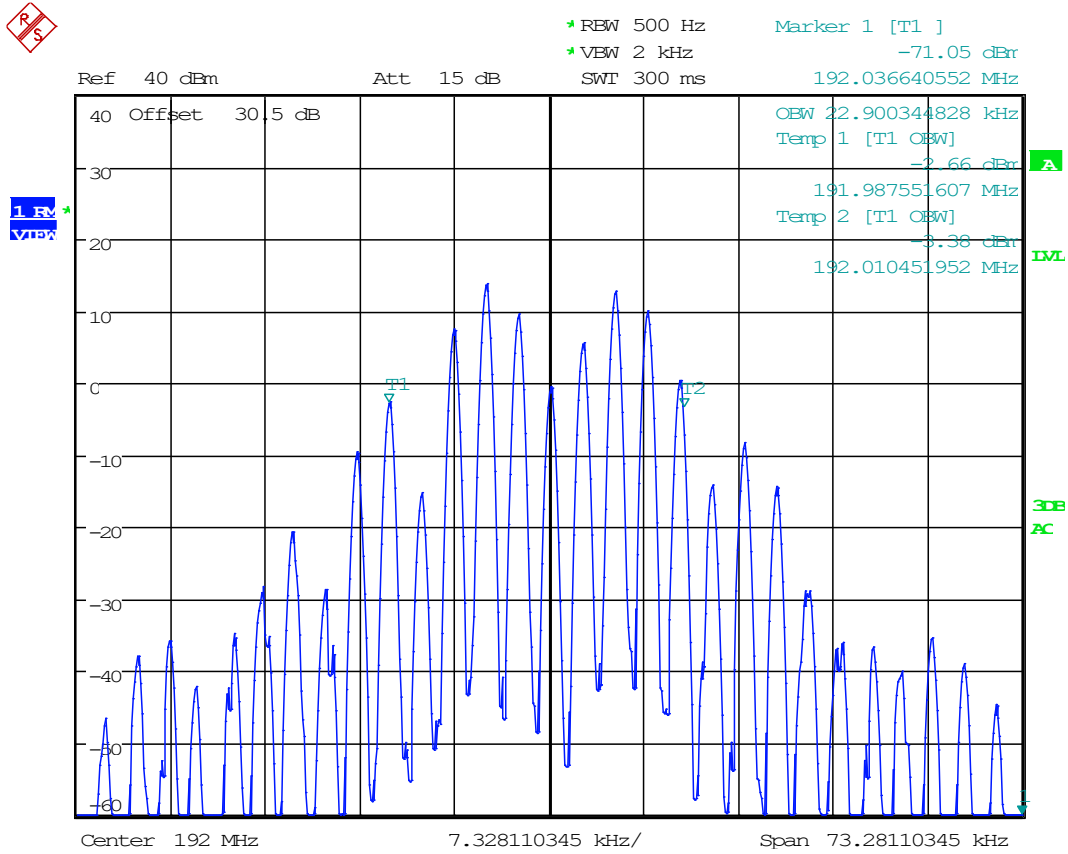
8.2 OCCUPIED BANDWIDTH

Limits from 2.1049(c), 74.861(e)(5)-(7) and test procedure from ANSI C63.26



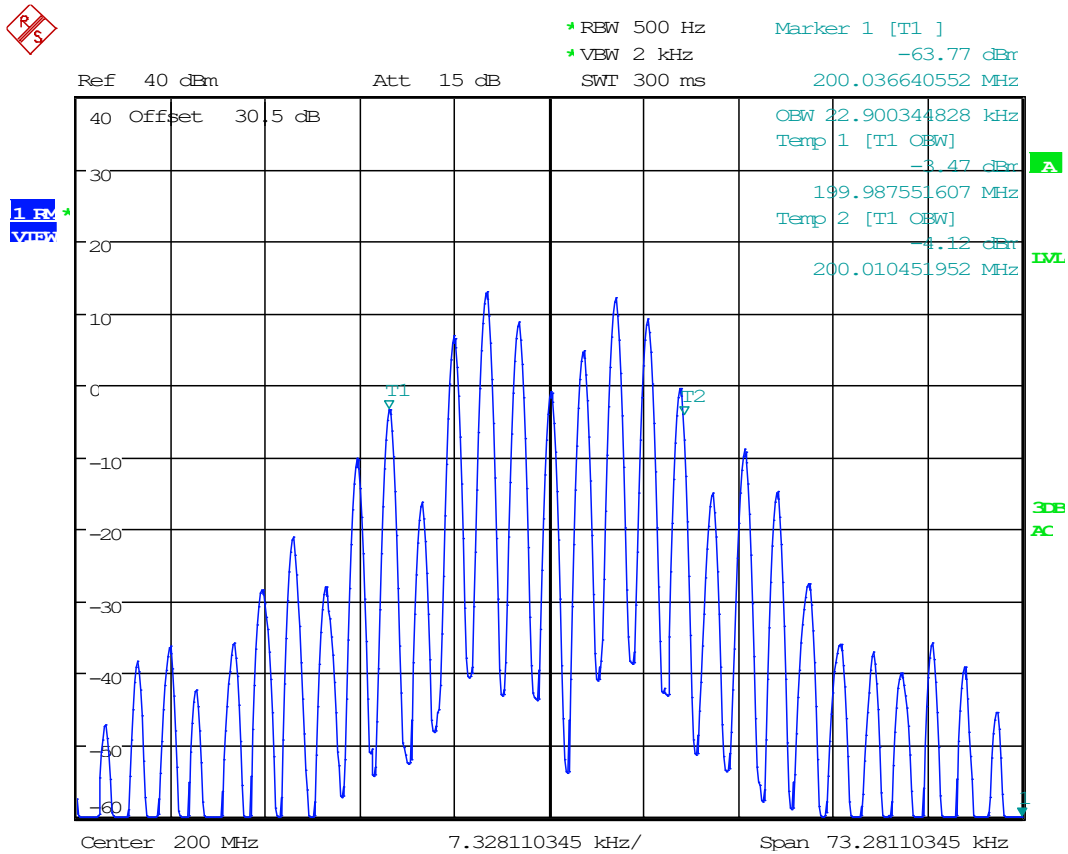
Test Results, Occupied Bandwidth		
Tuned Frequency (MHz)	Occupied Bandwidth (kHz)	Bandwidth Type
Analog		
192	22.9	99%
200	22.9	99%
215	22.9	99%
Digital		
192	106.15	99%
200	106.69	99%
215	105.62	99%

8.2.1 Analog 99% Bandwidth Plot, 192 MHz



Date: 26.SEP.2024 15:09:39

8.2.2 Analog 99% Bandwidth Plot, 200 MHz



Date: 26.SEP.2024 15:09:09



A

3dB
AC

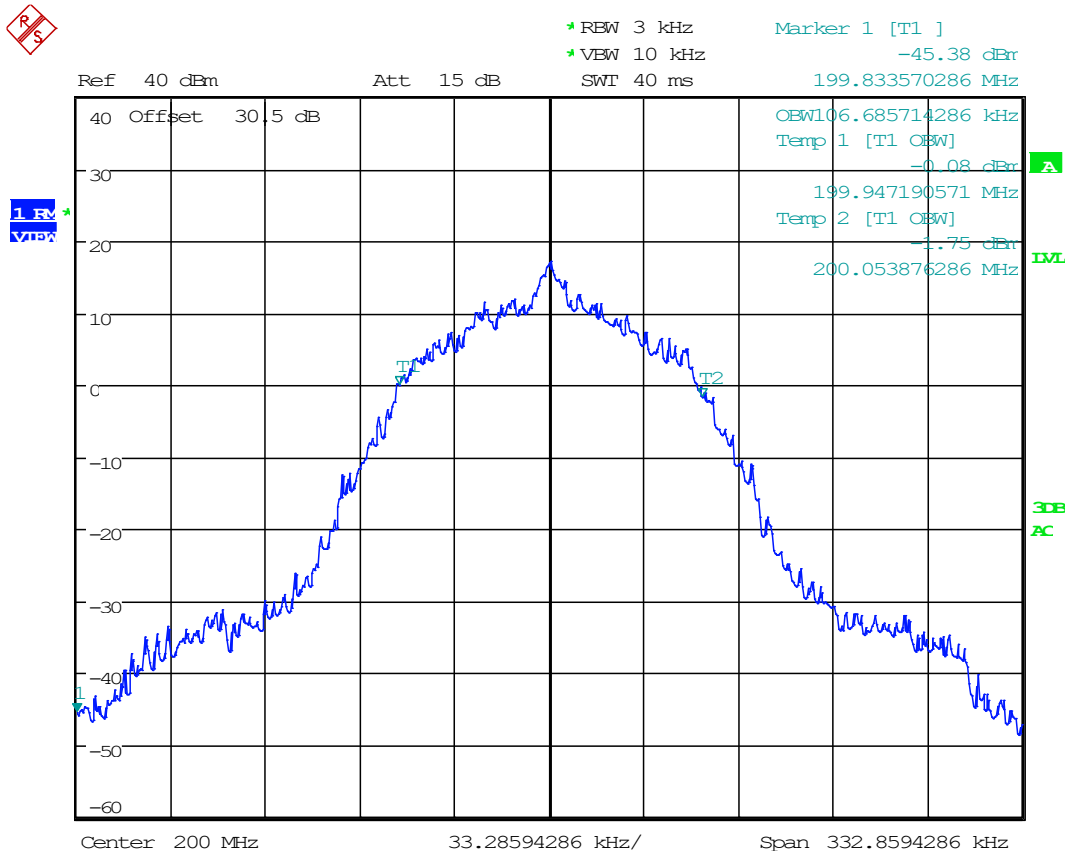


A

IMI

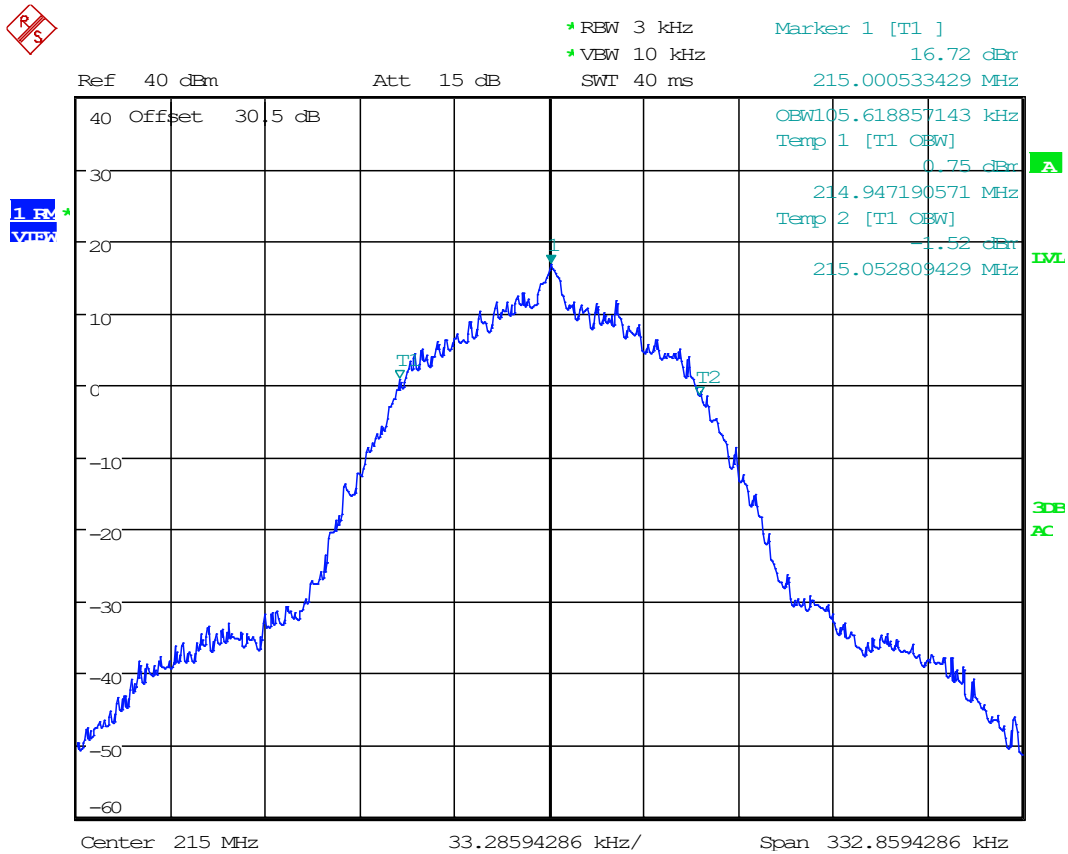
3DE
AC

8.2.2 Digital 99% Bandwidth Plot, 200 MHz



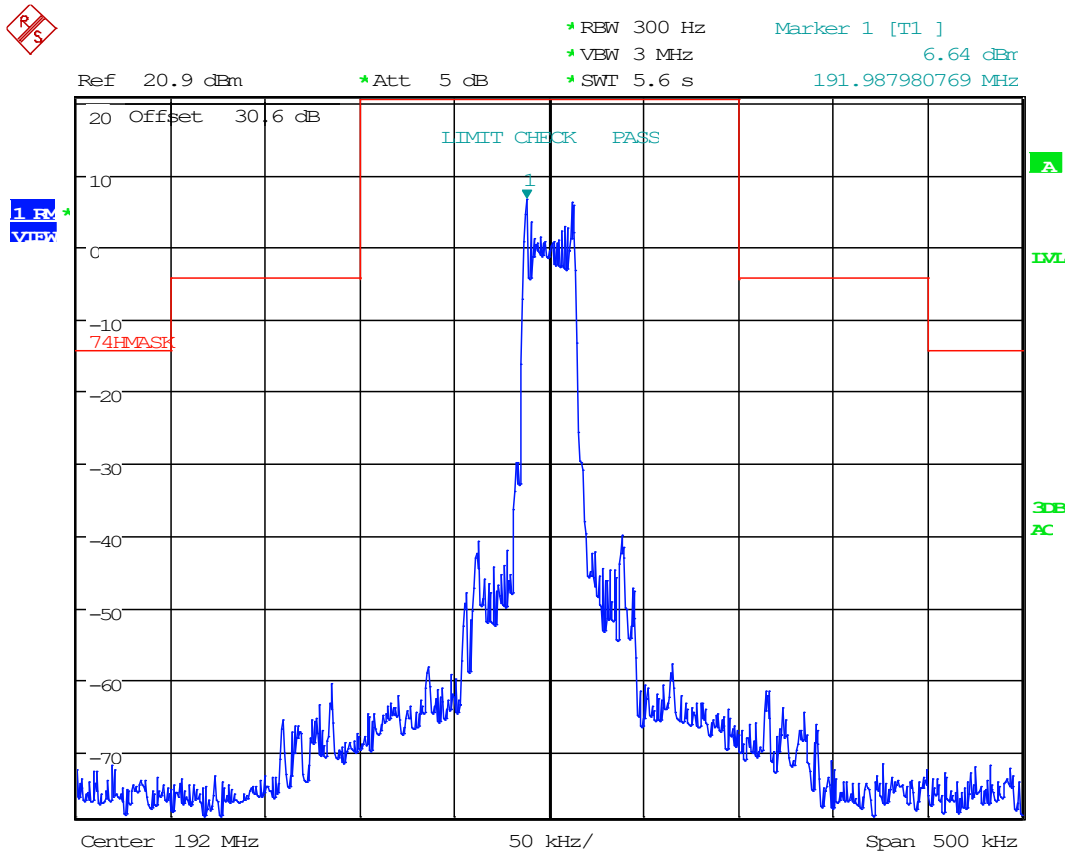
Date: 27.SEP.2024 10:01:00

8.2.3 Digital 99% Bandwidth Plot, 215 MHz

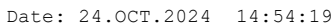


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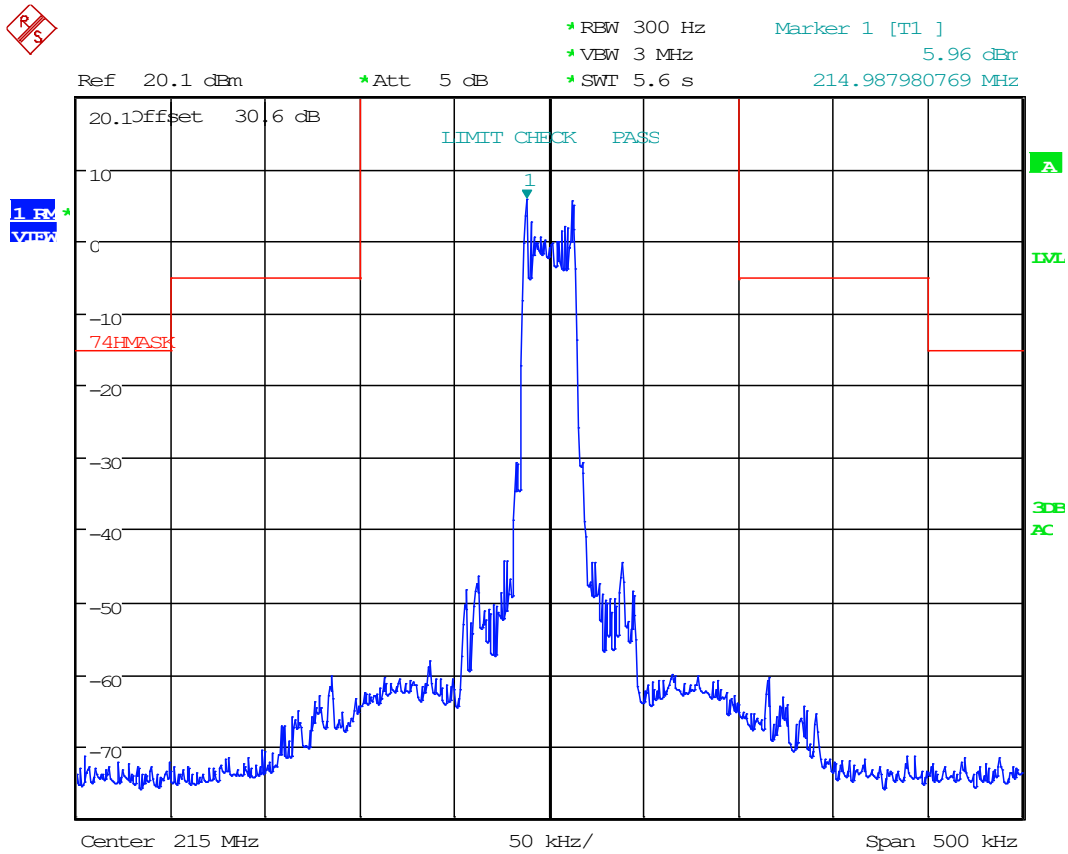
8.2.4 Analog Emission Mask Plot, 192 MHz



Date: 24.OCT.2024 14:52:45

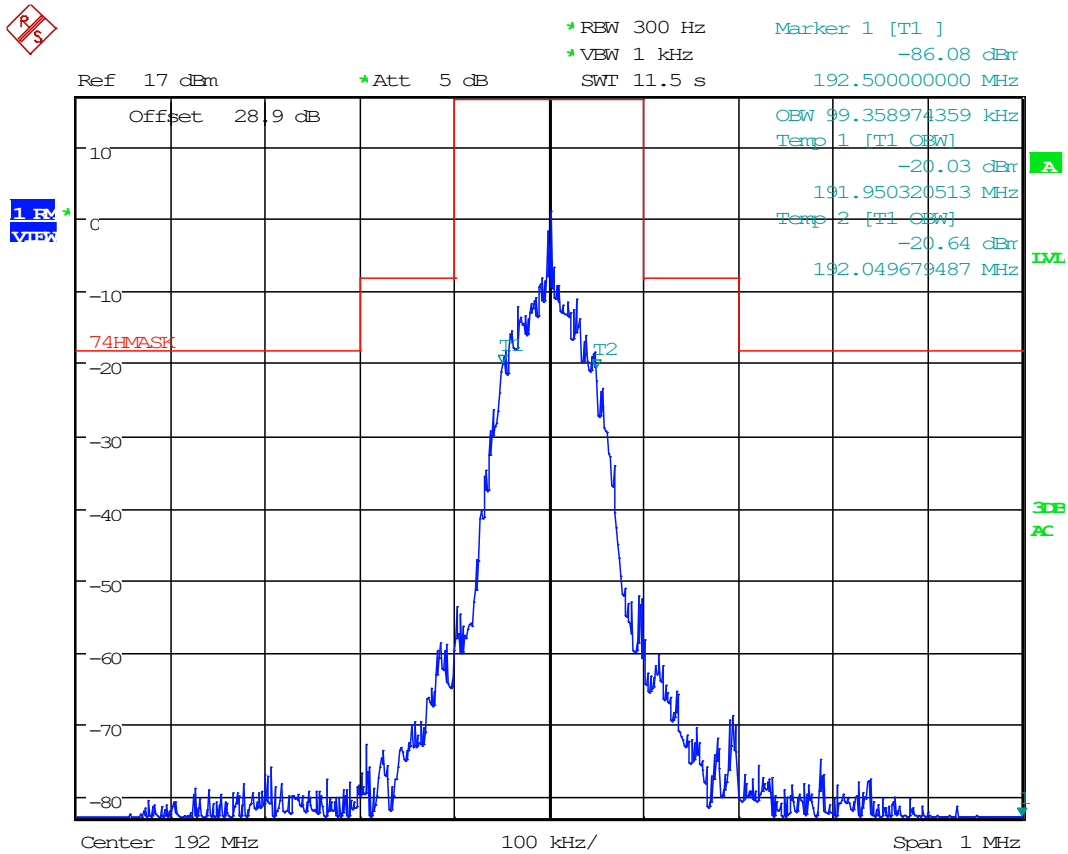


8.2.6 Analog Emission Mask Plot, 215 MHz



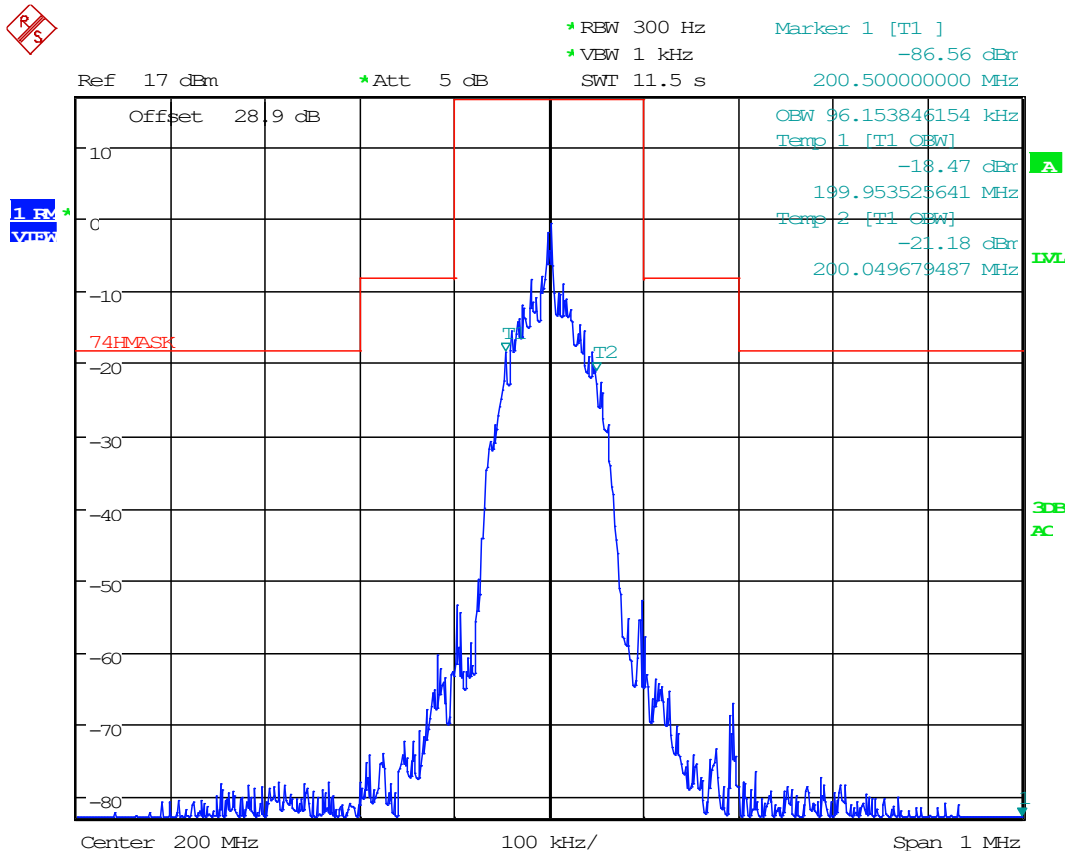
Date: 24.OCT.2024 14:58:04

8.2.1 Digital Emission Mask Plot, 192 MHz



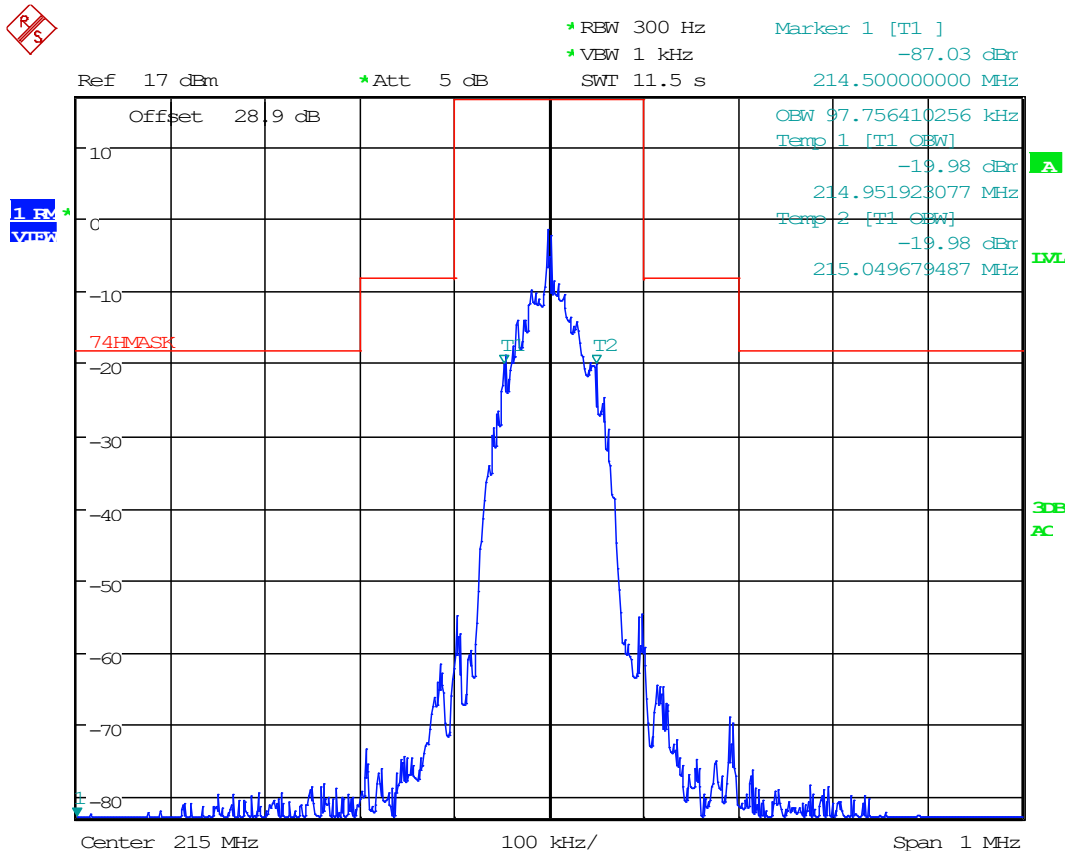
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8.2.2 Digital Emission Mask Plot, 200 MHz



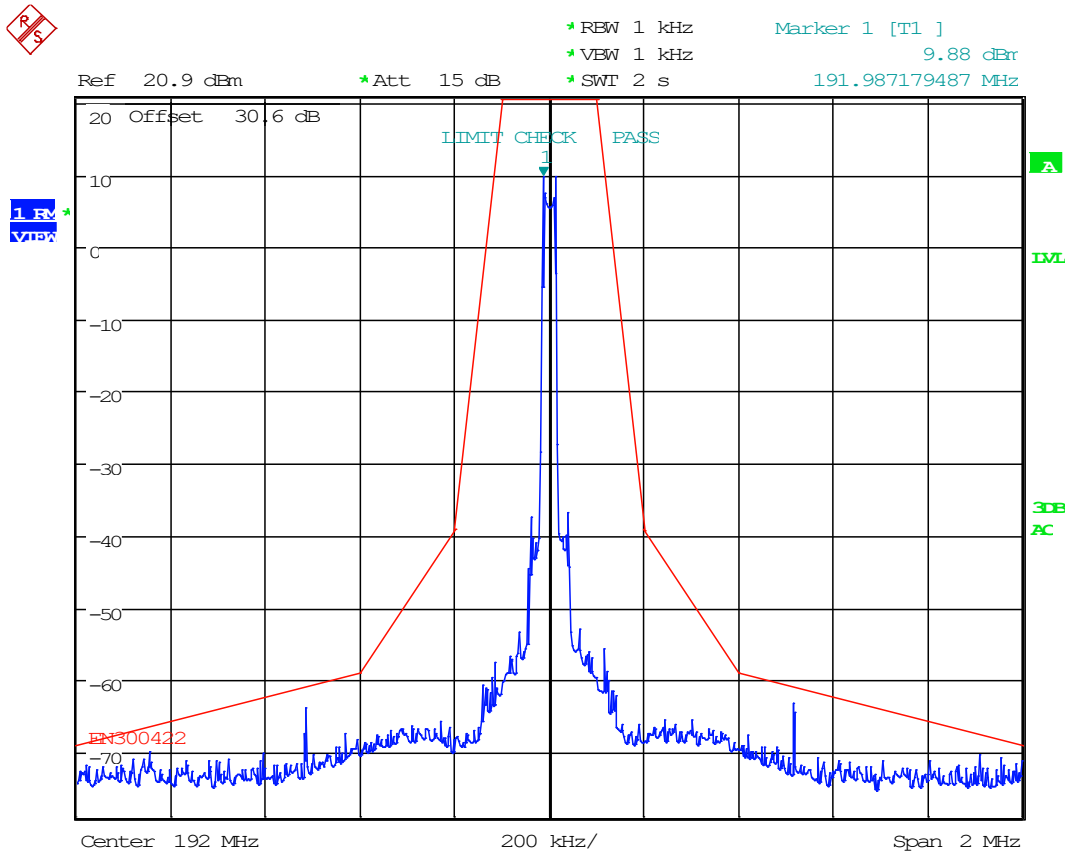
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8.2.3 Digital Emission Mask Plot, 215 MHz



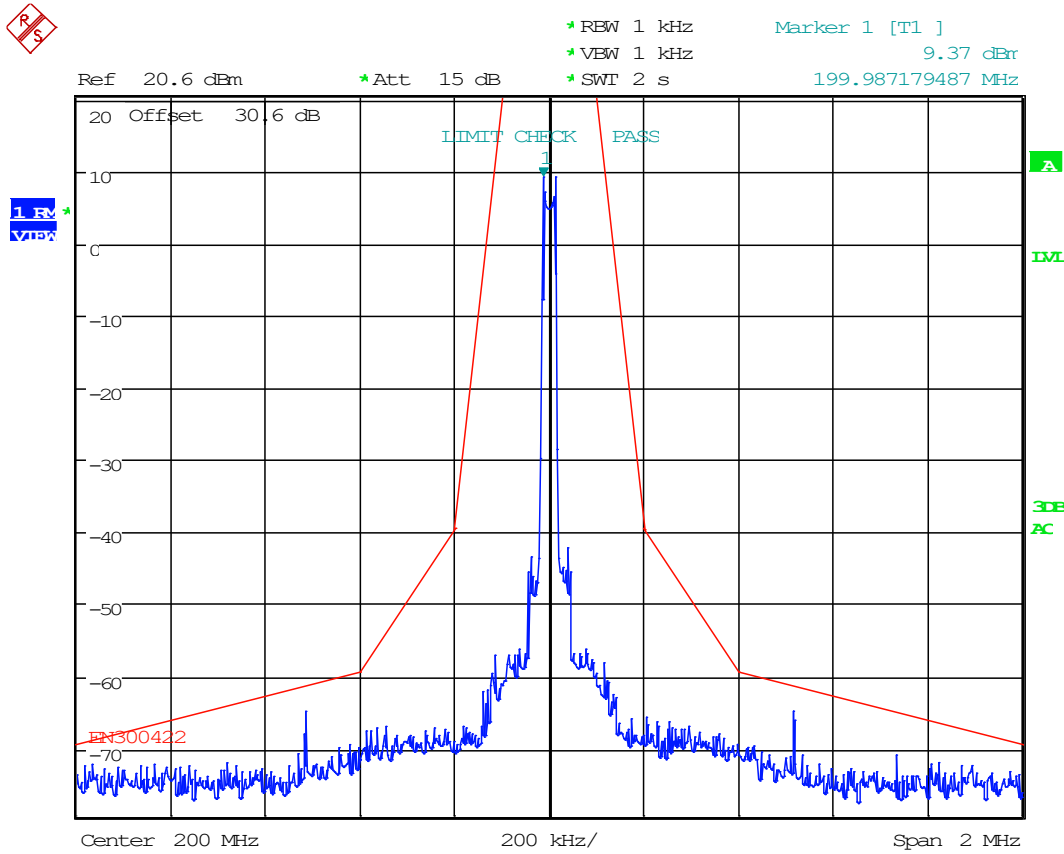
Date: 30.SEP.2024 10:43:23

8.2.4 Analog, ETSI Emission Mask Plot, 192 MHz



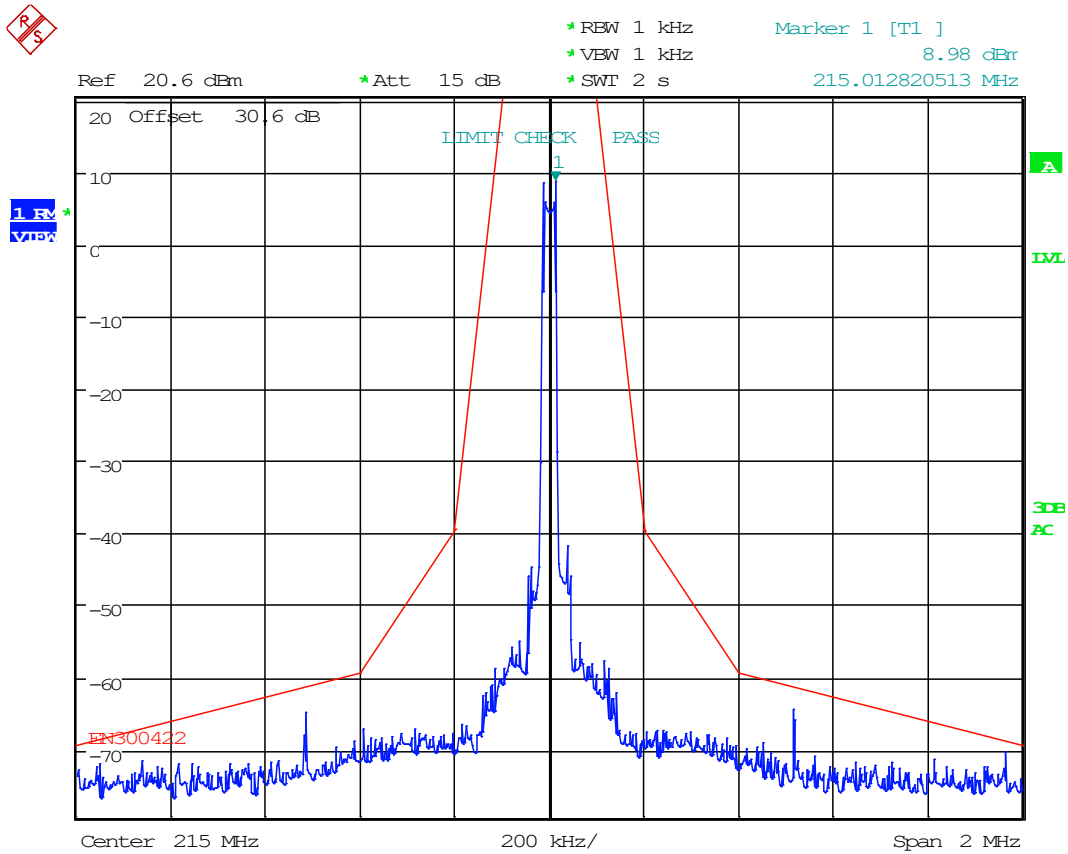
Date: 24.OCT.2024 14:24:45

8.2.5 Analog , ETSI Emission Mask Plot, 200 MHz



Date: 24.OCT.2024 14:28:48

8.2.6 Analog , ETSI Emission Mask Plot, 215 MHz

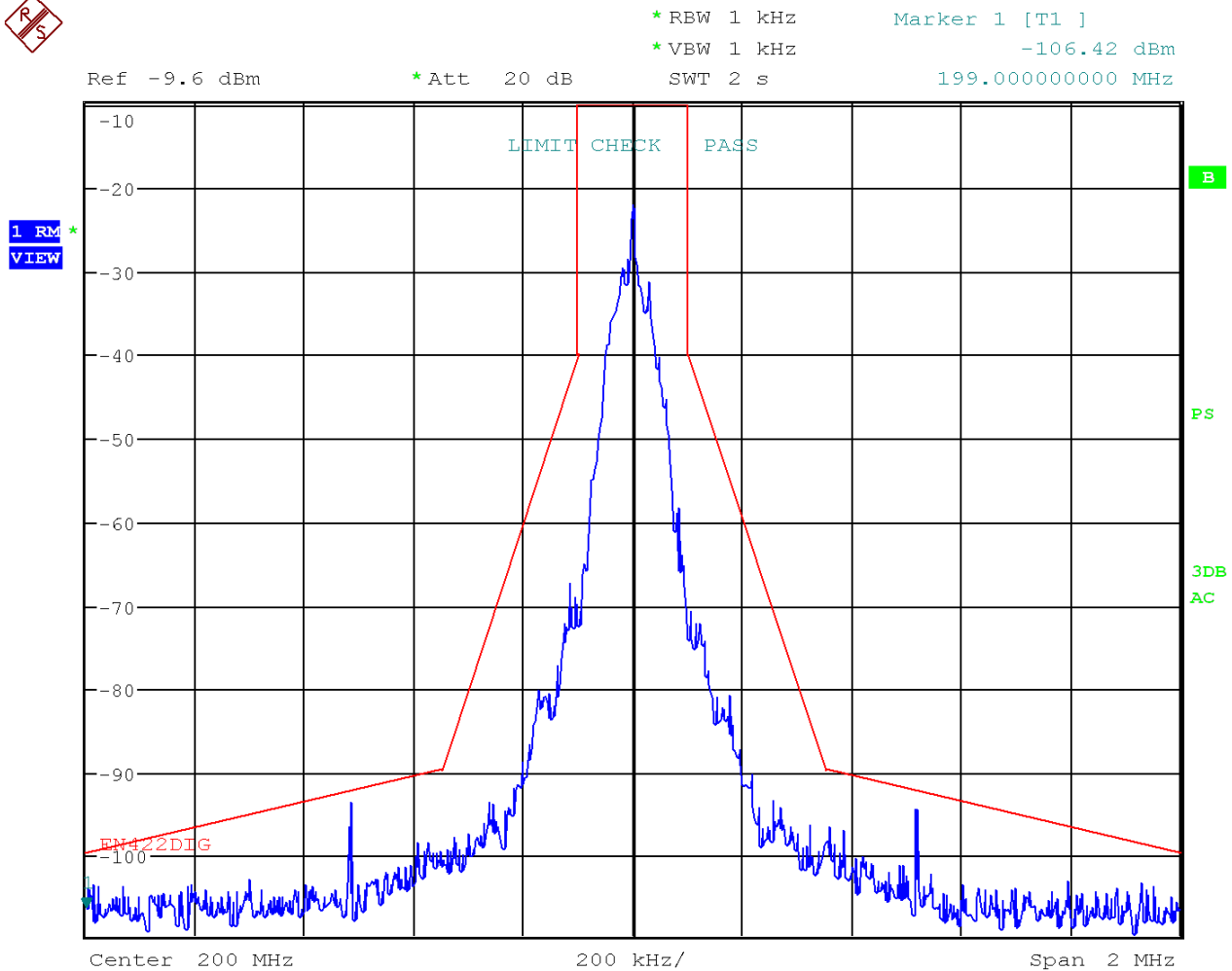


Date: 24.OCT.2024 14:37:57



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8.2.8 Digital , ETSI Emission Mask Plot, 200 MHz



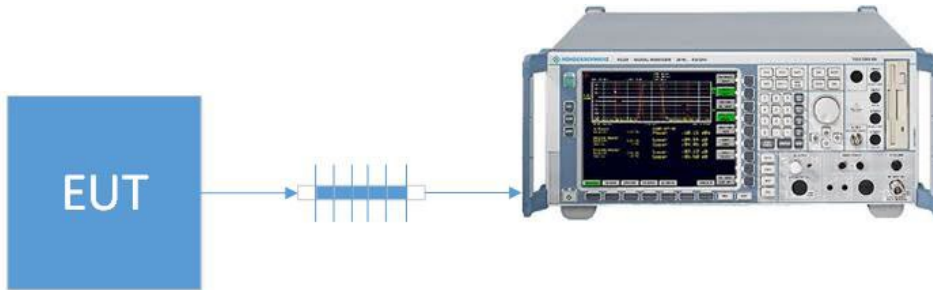
Date: 16.OCT.2024 10:23:43



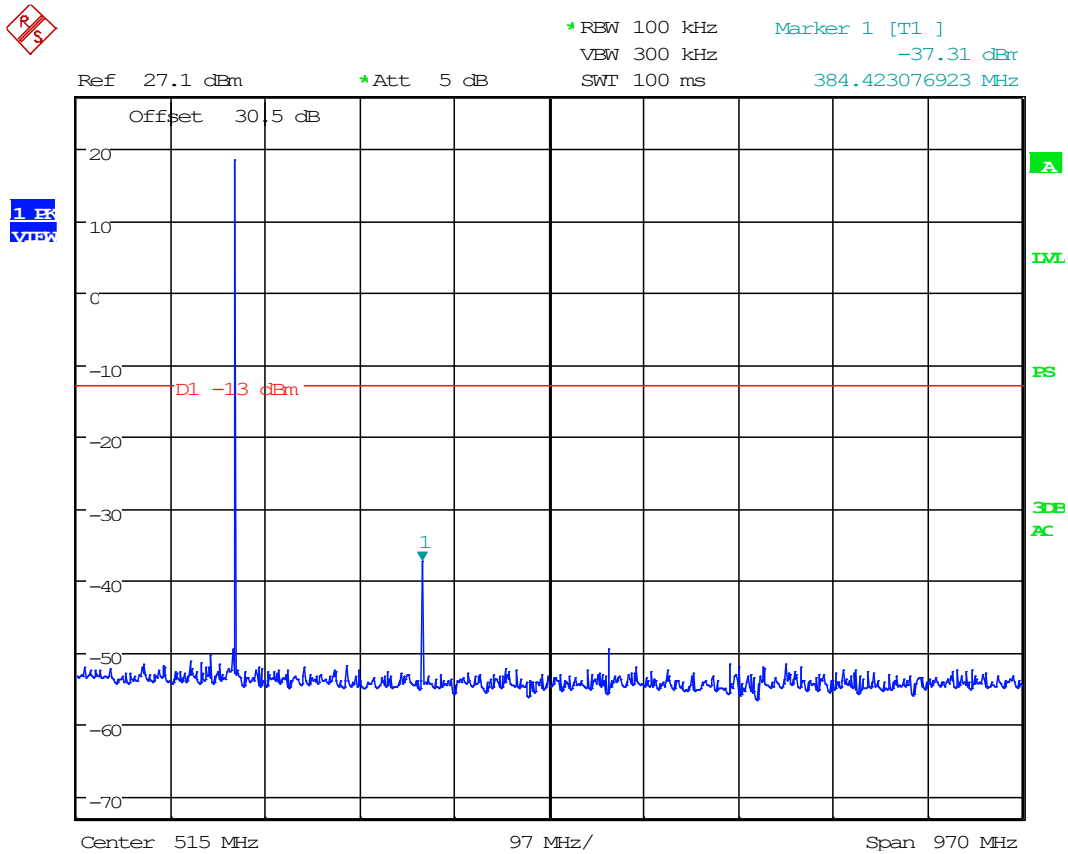
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8.3 Spurious Emissions at antenna terminals (Conducted)

Limits from 2.1051(a), 74.861(e)(6)(iii) and test procedure from ANSI C63.26 and KDB 206256 D01 Wireless Microphone Certification.

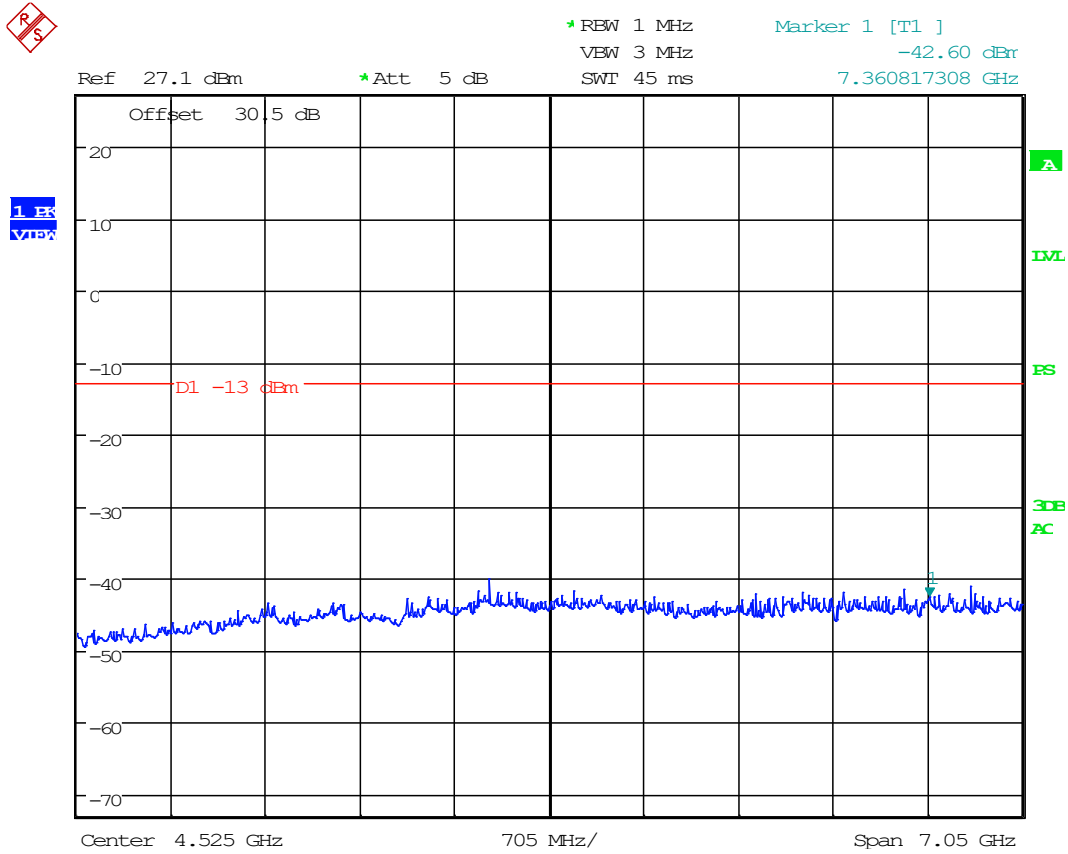


8.3.1 Conducted Emissions Below 1G, 192 MHz



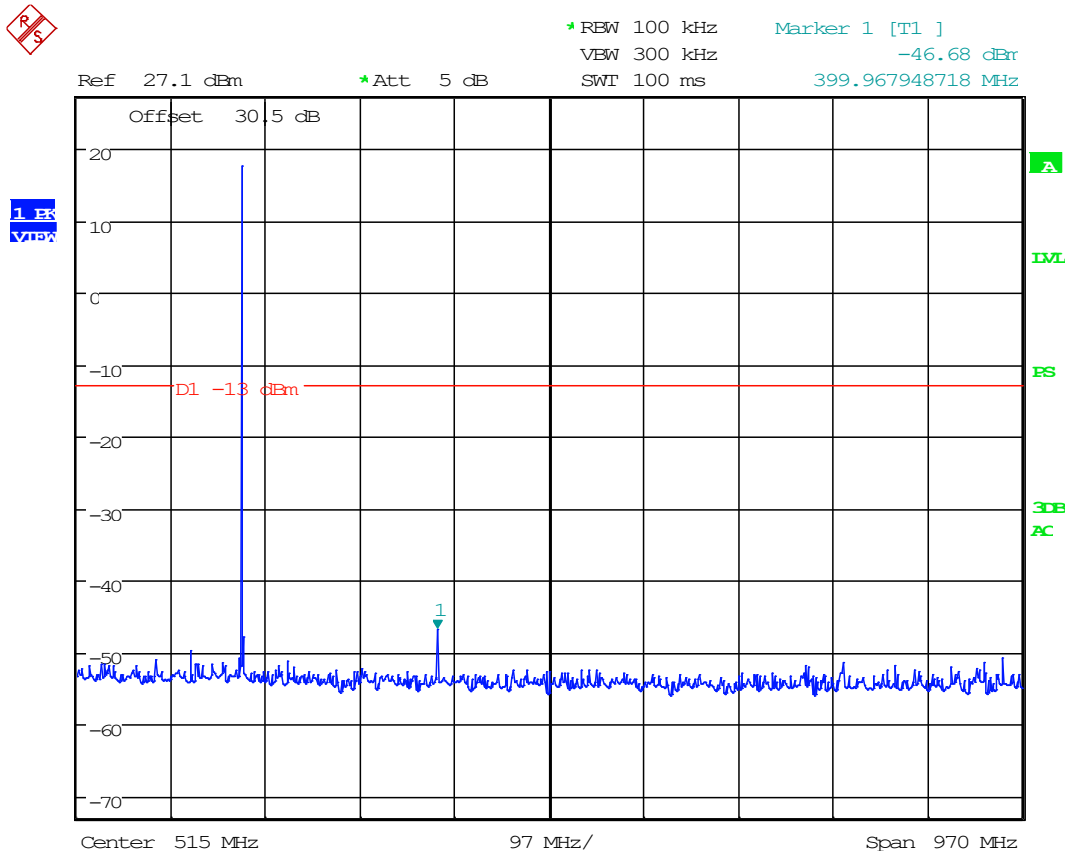
Date: 30.SEP.2024 13:09:41

8.3.2 Conducted Emissions Above 1G, 192 MHz



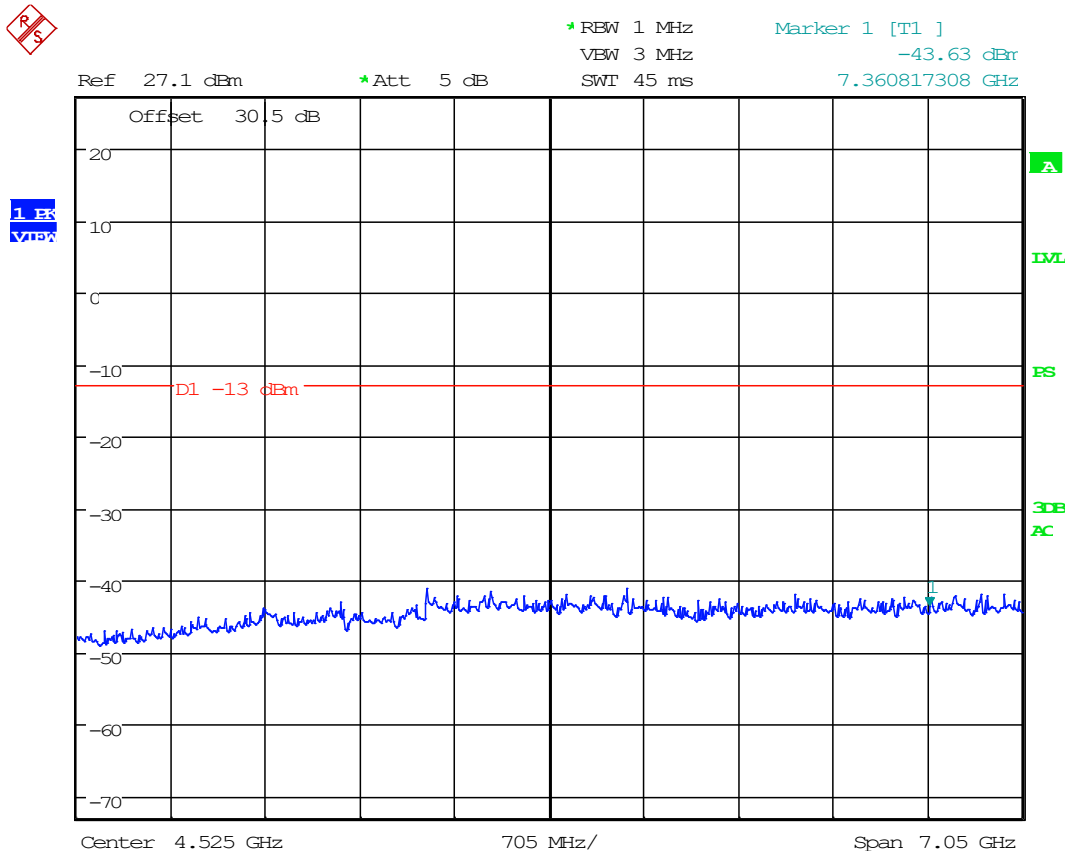
Date: 30.SEP.2024 13:10:14

8.3.3 Conducted Emissions Below 1G, 200 MHz



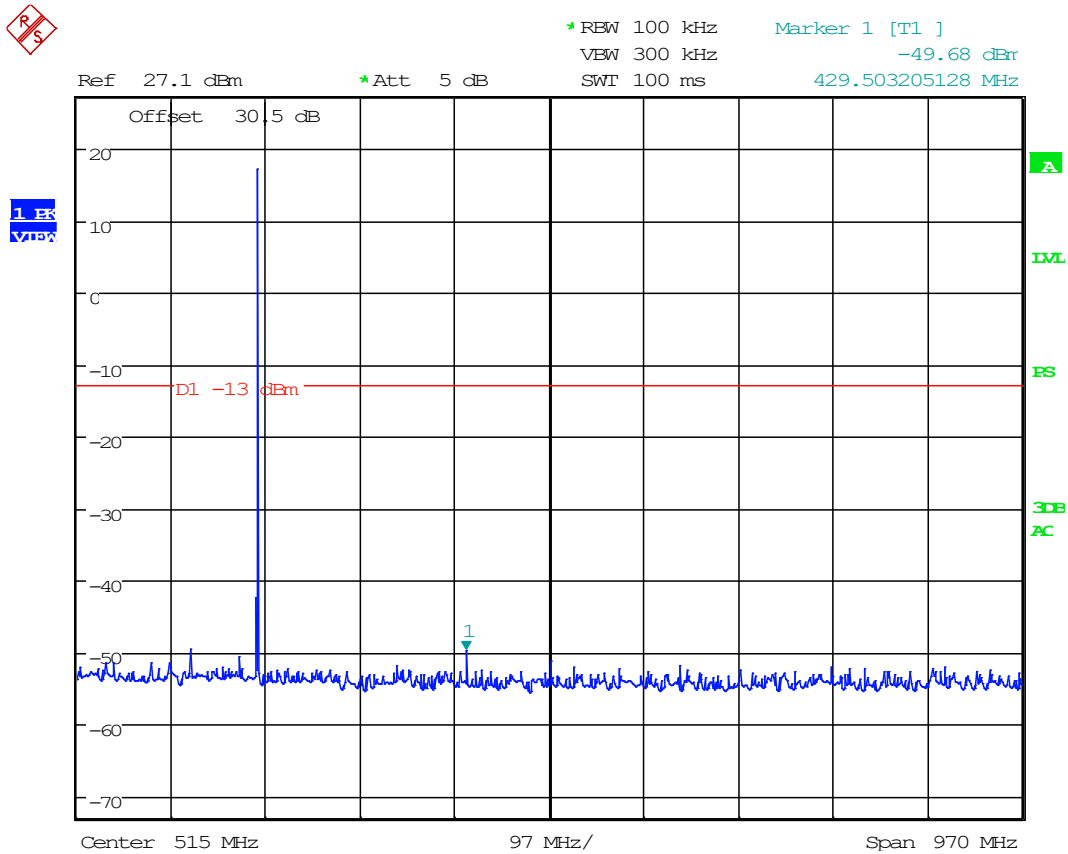
Date: 30.SEP.2024 13:09:14

8.3.4 Conducted Emissions Above 1G, 200 MHz



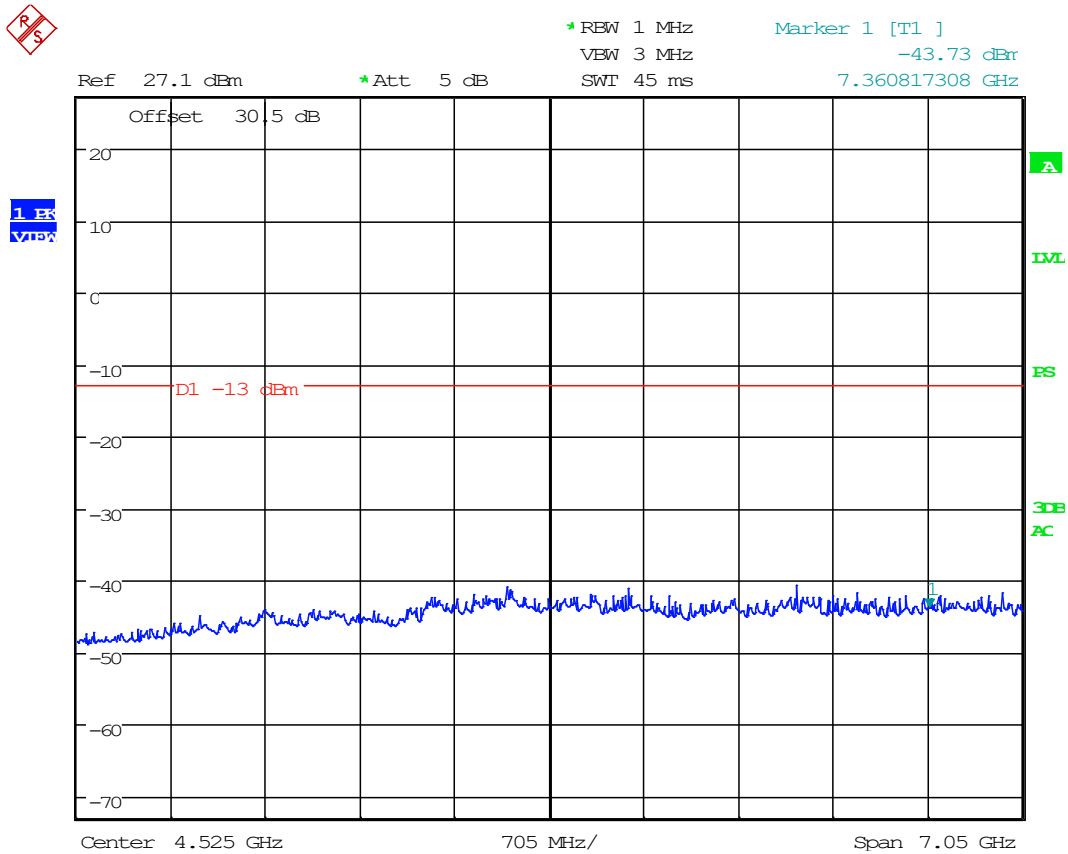
Date: 30.SEP.2024 13:10:40

8.3.5 Conducted Emissions Below 1G, 215 MHz



Date: 30.SEP.2024 13:08:26

8.3.6 Conducted Emissions Above 1G, 215 MHz

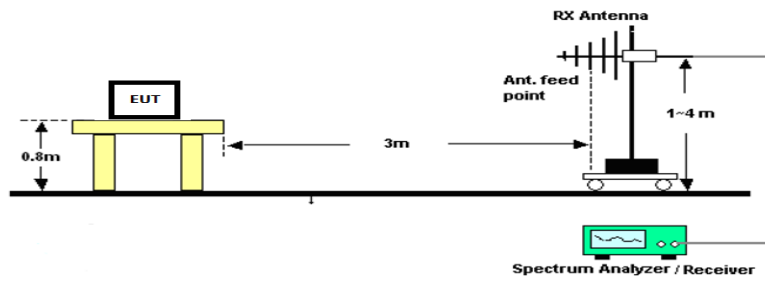


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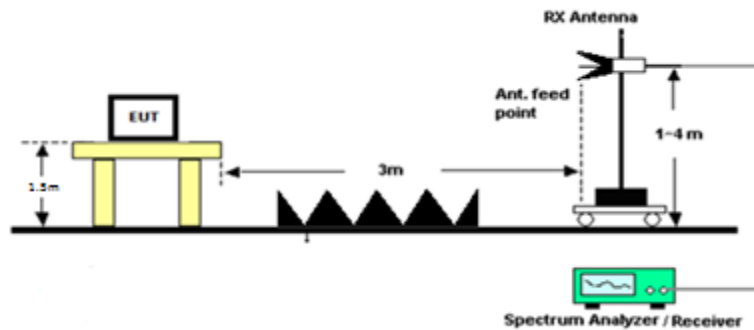
8.4 Radiated Emissions

Limits from 2.1053, 74.861(e)(6)(iii) and test procedure from ANSI C63.26 and KDB 206256 D01 Wireless Microphone Certification.

Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



Radiated Emissions Tabular Data

8.4.1 Radiated Emissions Table, 192 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)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
192.00	384.00	PK	20.60	H	-2.25	15.57	3.00	33.92	-63.45	-13.00	50.45
192.00	384.00	PK	20.60	V	-2.25	15.57	3.00	33.92	-63.45	-13.00	50.45
192.00	576.00	PK	19.10	H	-2.86	18.58	3.00	34.82	-62.56	-13.00	49.56
192.00	576.00	PK	18.60	V	-2.86	18.58	3.00	34.32	-63.06	-13.00	50.06
192.00	768.00	PK	18.70	H	-3.26	21.35	3.00	36.79	-60.59	-13.00	47.59
192.00	768.00	PK	20.30	V	-3.26	21.35	3.00	38.39	-58.99	-13.00	45.99
192.00	960.00	PK	20.40	H	-3.64	23.30	3.00	40.06	-57.32	-13.00	44.32
192.00	960.00	PK	21.20	V	-3.64	23.30	3.00	40.86	-56.52	-13.00	43.52
192.00	1152.00	PK	19.60	H	-3.97	27.70	3.00	43.33	-54.04	-13.00	41.04
192.00	1152.00	PK	20.60	V	-3.97	27.70	3.00	44.33	-53.04	-13.00	40.04
192.00	1344.00	PK	21.70	H	-4.32	28.84	3.00	46.23	-51.15	-13.00	38.15
192.00	1344.00	PK	22.30	V	-4.32	28.84	3.00	46.83	-50.55	-13.00	37.55
192.00	1536.00	PK	19.50	H	-4.61	27.68	3.00	42.58	-54.80	-13.00	41.80
192.00	1536.00	PK	19.10	V	-4.61	27.68	3.00	42.18	-55.20	-13.00	42.20
192.00	1728.00	PK	20.60	H	-4.82	29.52	3.00	45.30	-52.08	-13.00	39.08
192.00	1728.00	PK	19.70	V	-4.82	29.52	3.00	44.40	-52.98	-13.00	39.98
192.00	1920.00	PK	18.40	H	-5.17	31.36	3.00	44.59	-52.79	-13.00	39.79
192.00	1920.00	PK	19.80	V	-5.17	31.36	3.00	45.99	-51.39	-13.00	38.39

8.4.2 Radiated Emissions Table, 200 MHz

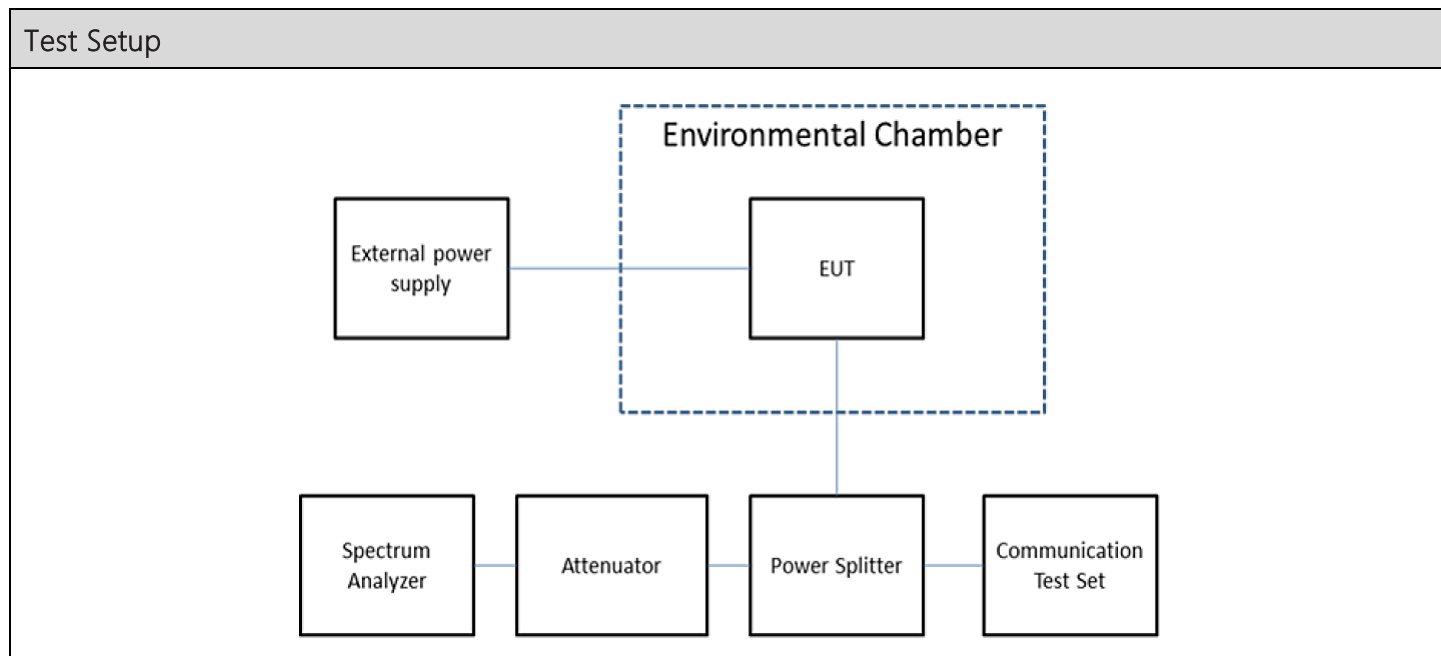
Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
200.00	400.00	PK	21.20	H	-2.29	15.93	3.00	34.84	-62.54	-13.00	49.54
200.00	400.00	PK	20.90	V	-2.29	15.93	3.00	34.54	-62.84	-13.00	49.84
200.00	600.00	PK	18.90	H	-2.86	18.81	3.00	34.85	-62.53	-13.00	49.53
200.00	600.00	PK	19.00	V	-2.86	18.81	3.00	34.95	-62.43	-13.00	49.43
200.00	800.00	PK	19.00	H	-3.34	21.37	3.00	37.03	-60.35	-13.00	47.35
200.00	800.00	PK	19.40	V	-3.34	21.37	3.00	37.43	-59.95	-13.00	46.95
200.00	1000.00	PK	20.20	H	-3.75	27.02	3.00	43.47	-53.91	-13.00	40.91
200.00	1000.00	PK	20.00	V	-3.75	27.02	3.00	43.27	-54.11	-13.00	41.11
200.00	1200.00	PK	19.60	H	-4.00	28.10	3.00	43.70	-53.68	-13.00	40.68
200.00	1200.00	PK	17.90	V	-4.00	28.10	3.00	42.00	-55.38	-13.00	42.38
200.00	1400.00	PK	20.50	H	-4.36	28.03	3.00	44.17	-53.21	-13.00	40.21
200.00	1400.00	PK	21.60	V	-4.36	28.03	3.00	45.27	-52.11	-13.00	39.11
200.00	1600.00	PK	18.70	H	-4.76	27.92	3.00	41.86	-55.52	-13.00	42.52
200.00	1600.00	PK	19.20	V	-4.76	27.92	3.00	42.36	-55.02	-13.00	42.02
200.00	1800.00	PK	20.40	H	-5.11	30.45	3.00	45.74	-51.63	-13.00	38.63
200.00	1800.00	PK	19.40	V	-5.11	30.45	3.00	44.74	-52.63	-13.00	39.63
200.00	2000.00	PK	18.80	H	-5.40	31.60	3.00	45.00	-52.38	-13.00	39.38
200.00	2000.00	PK	18.90	V	-5.40	31.60	3.00	45.10	-52.28	-13.00	39.28

8.4.3 Radiated Emissions Table, 215 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)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
215.00	430.00	PK	21.80	H	-2.38	16.24	3.00	35.66	-61.72	-13.00	48.72
215.00	430.00	PK	21.10	V	-2.38	16.24	3.00	34.96	-62.42	-13.00	49.42
215.00	645.00	PK	18.80	H	-2.96	19.37	3.00	35.21	-62.17	-13.00	49.17
215.00	645.00	PK	19.10	V	-2.96	19.37	3.00	35.51	-61.87	-13.00	48.87
215.00	860.00	PK	18.90	H	-3.49	22.36	3.00	37.77	-59.61	-13.00	46.61
215.00	860.00	PK	19.60	V	-3.49	22.36	3.00	38.47	-58.91	-13.00	45.91
215.00	1075.00	PK	19.50	H	-3.89	26.98	3.00	42.58	-54.79	-13.00	41.79
215.00	1075.00	PK	18.70	V	-3.89	26.98	3.00	41.78	-55.59	-13.00	42.59
215.00	1290.00	PK	18.90	H	-4.25	29.20	3.00	43.85	-53.53	-13.00	40.53
215.00	1290.00	PK	19.60	V	-4.25	29.20	3.00	44.55	-52.83	-13.00	39.83
215.00	1505.00	PK	20.10	H	-4.53	27.68	3.00	43.25	-54.13	-13.00	41.13
215.00	1505.00	PK	18.90	V	-4.53	27.68	3.00	42.05	-55.33	-13.00	42.33
215.00	1720.00	PK	19.30	H	-4.79	29.51	3.00	44.02	-53.36	-13.00	40.36
215.00	1720.00	PK	19.30	V	-4.79	29.51	3.00	44.02	-53.36	-13.00	40.36
215.00	1935.00	PK	19.20	H	-5.21	31.46	3.00	45.45	-51.93	-13.00	38.93
215.00	1935.00	PK	20.30	V	-5.21	31.46	3.00	46.55	-50.83	-13.00	37.83
215.00	2150.00	PK	19.20	H	-5.58	31.37	3.00	45.00	-52.38	-13.00	39.38
215.00	2150.00	PK	18.80	V	-5.58	31.37	3.00	44.60	-52.78	-13.00	39.78

8.5 Frequency Stability

Limits from 2.1053, 74.861(e) (4) and test procedure from ANSI C63.26 and KDB 206256 D01 Wireless Microphone Certification.

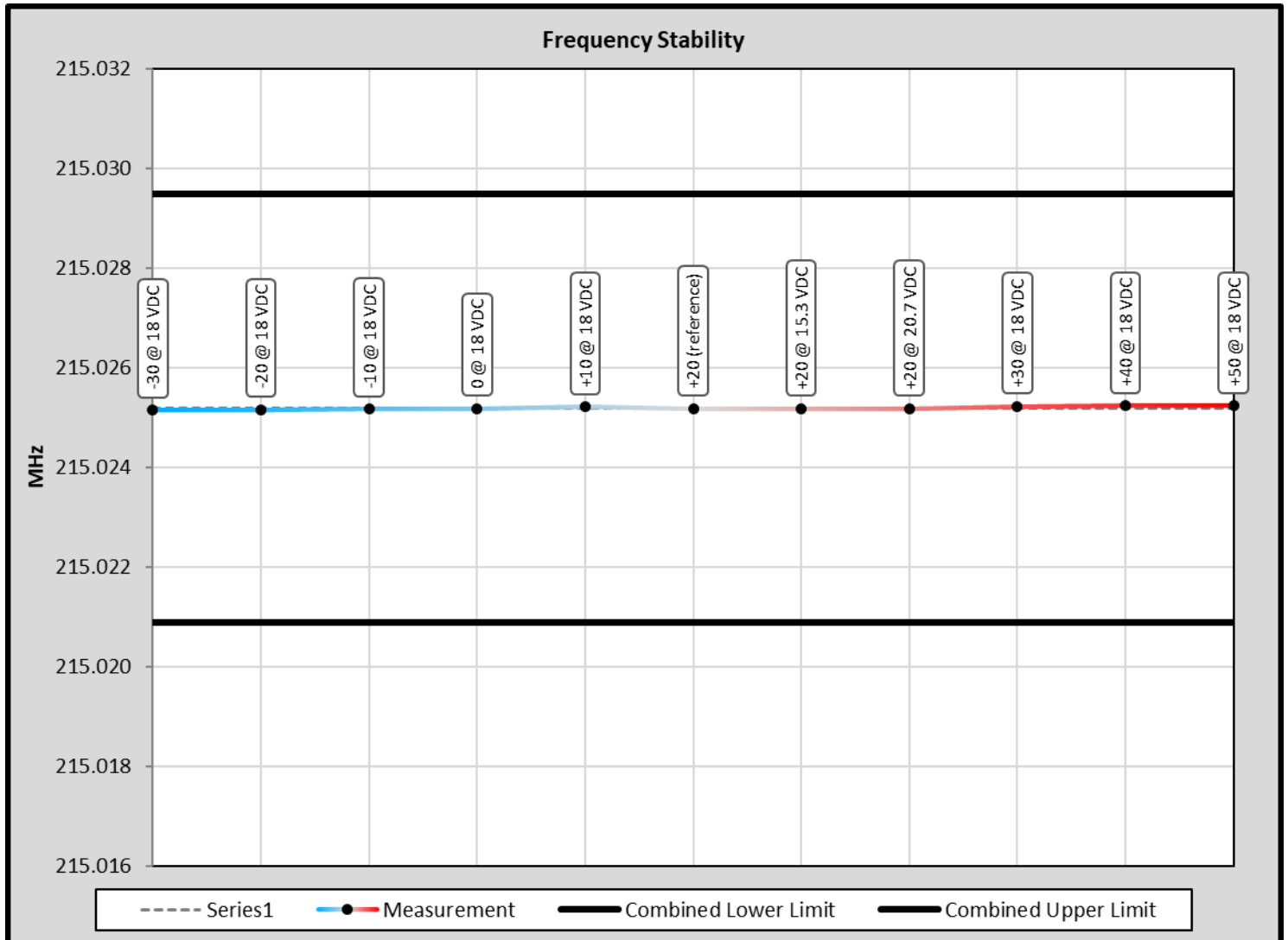


Test Results, Mode 1		
Tuned Frequency (MHz)	Max Deviation (kHz)	Limit (PPM)
215	-0.05	20

8.5.1 Frequency Stability Data

FCC Part 90 Limit	20.0	ppm	
FCC Part 90 Limit, as ppb	20000	ppb (Parts per Billion)	
FCC Part 90 Limit, as %	0.00200	%	
Strictest Combined Limit, as Hz	4300.504	Hz	
Combined Lower Limit	215.020879	MHz	
Combined Upper Limit	215.029481	MHz	
Rated Supply Voltage	18.0	☐ AC ☒ DC	
Temperature / Voltage Variation			
Temperature (°C)	Supplied Voltage (V)	Frequency (MHz)	Deviation (kHz)
-30	18.0	215.025150	0.030
-20	18.0	215.025160	0.020
-10	18.0	215.025170	0.010
0	18.0	215.025180	0.000
+10	18.0	215.025210	-0.030
+20 (reference)	18.0	215.025180	0.000
+20	15.3	215.025180	0.000
+20	20.7	215.025180	0.000
+30	18.0	215.025220	-0.040
+40	18.0	215.025230	-0.050
+50	18.0	215.025230	-0.050

8.5.2 Frequency Stability Plot



9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate document.

10. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_16398-24_FCC 74H_	1	Initial release	11/19/2024
	2	Updated Page 4	12/18/2024
	3	Updated Page 12	01/06/2025

END OF TEST REPORT
