Test Report # TR_0333-21_FCC_PT97_Booster Class B_2
Revision: 2
Issue Date: January 21, 2021
Final Test Date: February 10, 2021

ACCREDITED
CERT #0955.01

TIMCO ENGINEERING, Inc.
An IIA Company

Test Report - FCC PART 97 Linear Amplifier (AMP)
Prepared For: Ameritron

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager
Date of Signature
(YYYY-MM-DD): 2021-02-11

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1. Customer Information

Applicant: Ameritron
Address: 300 Industrial Park Road
Starkville MS 39759

Technical Contact: Martin Jue
Telephone: 662-323-5869
Email address: mfjue@mfjenterprises.com

1.1 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 97 (AMATEUR RADIO SERVICE); ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters. 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.

The Following is for Test item FCC ID: HO82WUALS706

Applicable Clauses from Part 2		
FCC Part 2 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
2.202	Bandwidth & Emission	Pass
2.1033 (c)(8)	Power at the Final Amplifier	Pass
2.1046 (a)	RF Output Power	Pass
2.1047	Modulation characteristics	n/a
2.1049	Occupied Bandwidth	Pass
2.1051	Spurious emissions at antenna terminals	Pass
2.1053	Field strength of spurious radiation	Pass
2.1055	Frequency stability	n/a

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Applicable Clauses from PART 97		
FCC PART 97 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
97.317(a)(1)	Transmitter Power	Pass
97.317(a)(1)	Spurious emissions during TX, Stand-By, and Off	Pass
97.317(a)(2)	Gain	Pass
97.317(a)(3)	Gain in 27 MHz band	Pass

KDB 935210 D05 v01r04		
FCC KDB 935210 D05 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
4.1	Test Signals for PLMRS (Input Signals)	Reported
4.2	AGC Threshold	n/a
4.3	Out-of-Band Rejection	Reported
4.4	Input-versus-Output Signal Comparison	Pass
4.5	Output Power	Pass
4.5	Amplifier/Booster Gain	Pass
4.6	Noise Figure	n/a
4.7.2	Out-of-band/Out-of-block Conducted Emissions (Intermodulation Products)	n/a
4.7.3	EUT Spurious Conducted Emissions	Pass
4.8	Frequency Stability	n/a
4.9	Spurious Radiated Emissions	Pass

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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: January 21, 2021 – February 10, 2021

Signature: _____

Name & Title: Franklin Rose, EMC Specialist
Date of Signature
(YYYY-MM-DD): 2021-02-11

Sr. EMC Engineer
EMC-003838-NE

Signature: _____

Name & Title: Tim Royer, EMC Engineer
Date of Signature
(YYYY-MM-DD): 2021-02-11

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

The test sample was received: January 21, 2021

3.1 Definitions

External RF power amplifier. A device capable of increasing power output when used in conjunction with, but not an integral part of, a transmitter.

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3.2 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:	HO82WUALS706
Brief Description	Linear Amplifier
Type of Modular	n/a
Model(s) #	ALS-706
Firmware Version	n/a
Serial Number	00001

Technical Characteristics	
Technology	External RF Power Amplifier/Linear Amplifier
Frequency Range	1.8 - 54 MHz (split as appropriate to FCC Part 97)
RF O/P Power (Max.)	57.78 dBm (600 W)
Modulation	n/a
Bandwidth & Emission Class	A1A, A3A, A3E, F1D, F3E, J1D, J3C, J3E, J3F
Duty Cycle	100%
Antenna Connector	UHF
Voltage Rating (AC or Batt.)	50 V DC

Antenna Characteristics				
Antenna Name	Frequency Range	Antenna Type	Dimensions	Antenna Gain
n/a	n/a	n/a	n/a	n/a

Note: This EUT does not include antenna(s).

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3.3 Configuration of EUT

Test Modes	
Band	Amateur Band
1.8 - 2 MHz	160 m
3.5 - 4 MHz	80 m
7 – 7.3 MHz	40 m
10.1 – 10.15 MHz	30 m
14 – 14.35 MHz	20 m
18.068 – 18.168 MHz	17 m
21 – 21.45 MHz	15 m
24.89 – 24.99 MHz	12 m
28 – 29.7 MHz	10 m
50 - 54 MHz	6 m

Note: The EUT is used in conjunction with Part 97 Amateur Radio transmitter devices.

Operating conditions during Testing:

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

Peripherals used during Testing:

A representative amateur radio transmitter was used to supply the amplifier with all appropriate input signals at ~100 W.

3.4 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.

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4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed PART 97 Licensed device:

1) ANSI C63.26-2015
2) FCC KDB 935210 D05 v01r04 Industrial Signal Boosters (guidance only)

4.2 Applied Limits and Regulatory Limits:

1) FCC CFR 47 PART 97.3175, 97.317

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%
Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.	

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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

Device	Manufacturer	Model	SN #	Current Cal	Cal Due
Signal Generator HP 8648C	HP	8648C	3847A04696	9/11/20	9/11/2023
Signal Generator R&S SMU-200A	Rohde & Schwarz	SMU200A	103195	4/23/18	4/22/2021
Digital Multimeter	Fluke	77	35053830	9/9/20	9/9/2023
Active Loop	ETS-Lindgren	6502	00062529	10/20/20	10/20/2023
Biconical 1057	Eaton	94455-1	1057	10/16/20	10/16/2023
Log-Periodic 1243	Eaton	96005	1243	4/20/18	4/19/2021
Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	2/25/20	2/24/2023
CHAMBER	Panashield	3M	N/A	3/12/19	3/11/2021
EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	8/28/18	8/27/2021

Type	Device	Manufacturer	Model	SN #	Last Verified
Attenuator	N 20dB 20W DC-4G	Narda	766-20	0605	1/6/21
Attenuator	N 20dB 2W DC-13G	Narda	757C	30201	1/6/21
Coaxial Cable	BMBM-0061-01 RG400	Pasternack	PE3582LF-24	BMBM-0061-01	1/6/21
Coaxial Cable	BMBM-0061-02 RG400	Pasternack	PE3582LF-24	BMBM-0061-02	1/6/21
Coaxial Cable	BMBM-0061-03 RG400	Pasternack	PE3582LF-24	BMBM-0061-03	1/6/21
Coaxial Cable	BMBM-0061-04 RG400	Pasternack	PE3582LF-24	BMBM-0061-04	1/6/21
Coaxial Cable	BMBM-0122-01 RG400	Pasternack	PE3582LF-48	BMBM-0122-01	1/6/21
Coaxial Cable	BMBM-0122-02 RG400	Pasternack	PE3582LF-48	BMBM-0122-02	1/6/21
Coaxial Cable	BMBM-0122-03 RG400	Pasternack	PE3582LF-48	BMBM-0122-03	1/6/21
Coaxial Cable	BMBM-0122-04 RG400	Pasternack	PE3582LF-48	BMBM-0122-04	1/6/21
Coaxial Cable	Chamber 3 cable set (backup)	Micro-Coax	Chamber 3 cable set (backup)	KMKM-0244-02 ; KMKM-0670-0	1/6/21
Combiner	Splitter/Combiner 1-1000MHz	Mini-Circuits	ZFSC-4-1-BNC+	U115700825	1/6/21
Combiner	Splitter/Combiner 1-1000MHz	Mini-Circuits	ZFSC-4-1-BNC+	U115700826	1/6/21
Noise Source	Noise Source 10MHz - 18GHz	Agilent	346B	MY44421884	1/6/21
Terminator	Terminator N 20W DC-18G	Narda	8205	#14	1/6/21
Test Equipment Adapter	Type R&S to NF			Test Equipment Adapter 04	1/6/21

Software	Author	Version
ESU Firmware	Rohde & Schwarz	4.43 SP3; BIOS v5.1-24-3
RSCommander	Rohde & Schwarz	1.6.4
Field Strength	Timco	v4.10.7.0

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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 dBµV. 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 (dBµV/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 dBµV 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.

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8.1 Power at the Final Amplifier

Limits from FCC Part 2.1033 (c)(8).

No method of measurement is specified. The result has been calculated based on all available information.

Test Results		
EUT Operating Voltage (V)	EUT Current (A)	Power at the Final Amplifier
50 V DC	25 A	1250 W

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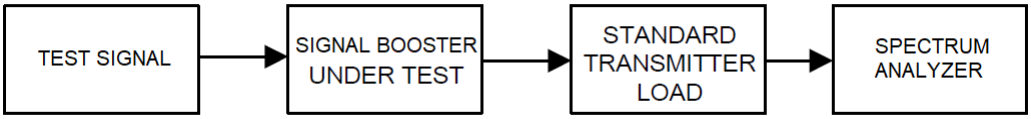
8.2 RF Output Power & Gain

Limits from FCC Parts 97.317(a)(1) and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Test Setup



Test Results, Power Output & Gain			
Amateur Band	Power Input (dBm)	Max Power Output (dBm)	Gain (dB)
160 m	49.36	56.70	7.34
80 m	50.39	56.88	6.49
40 m	50.18	56.96	6.78
30 m	49.56	56.84	7.28
20 m	49.54	57.02	7.48
17 m	49.51	56.57	7.06
15 m	49.34	57.05	7.71
12 m	49.44	56.97	7.53
10 m	49.29	56.20	6.91
6 m	46.64	56.13	7.49

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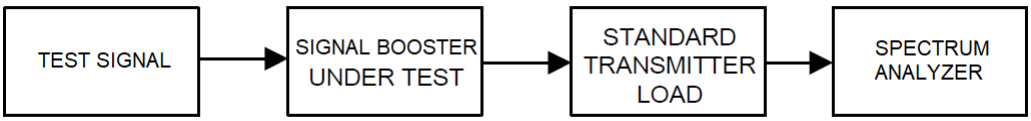
8.3 Out-of-band Rejection

Limits from FCC Part 97, test method from FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Test Setup


Test Results, Out-of-band Rejection and Class of Operation		
Operating Band	Passband (kHz)	Class of Operation
1.8 – 54 MHz	> 75 kHz	Class B

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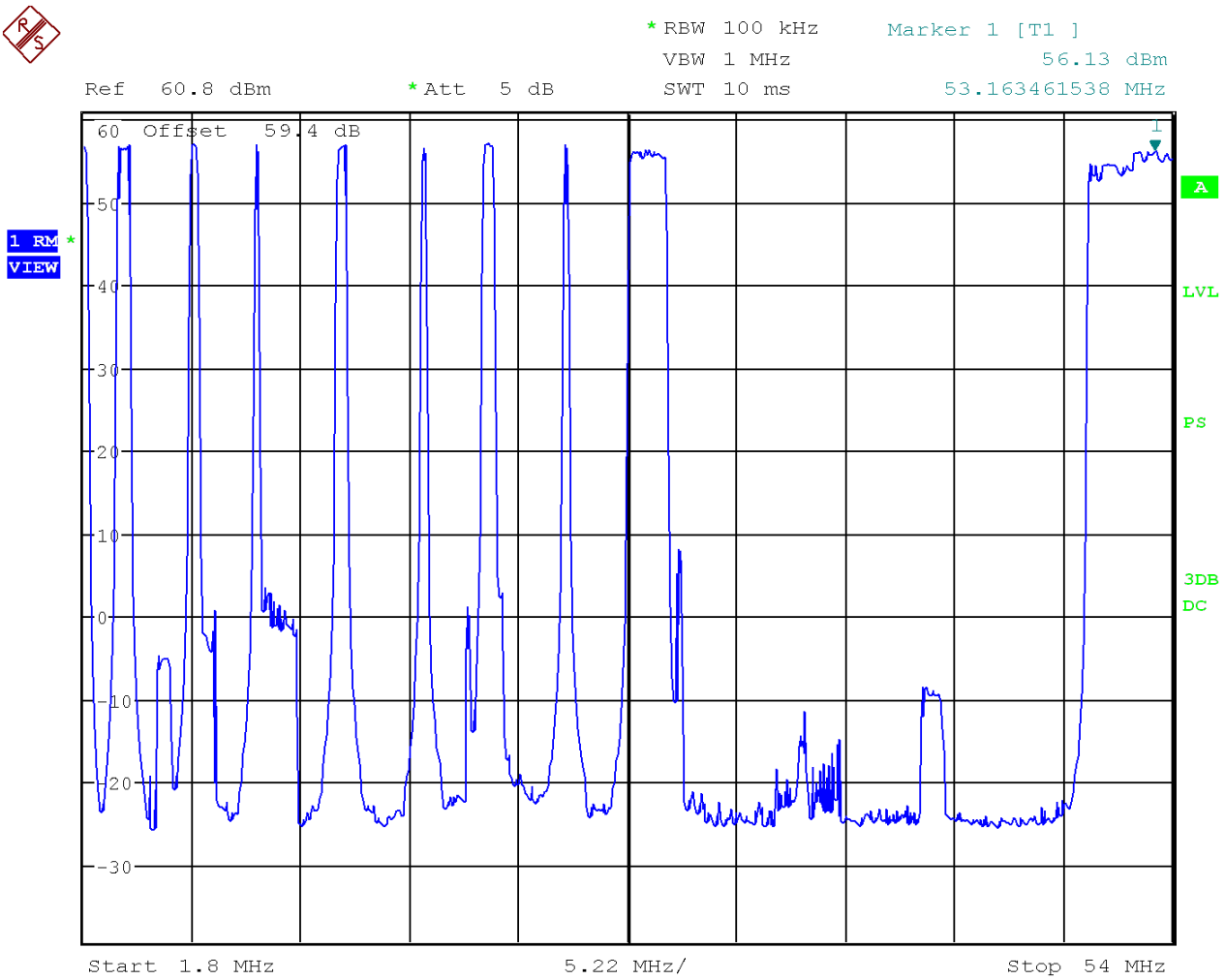
8.3.1 Out-of-band Rejection



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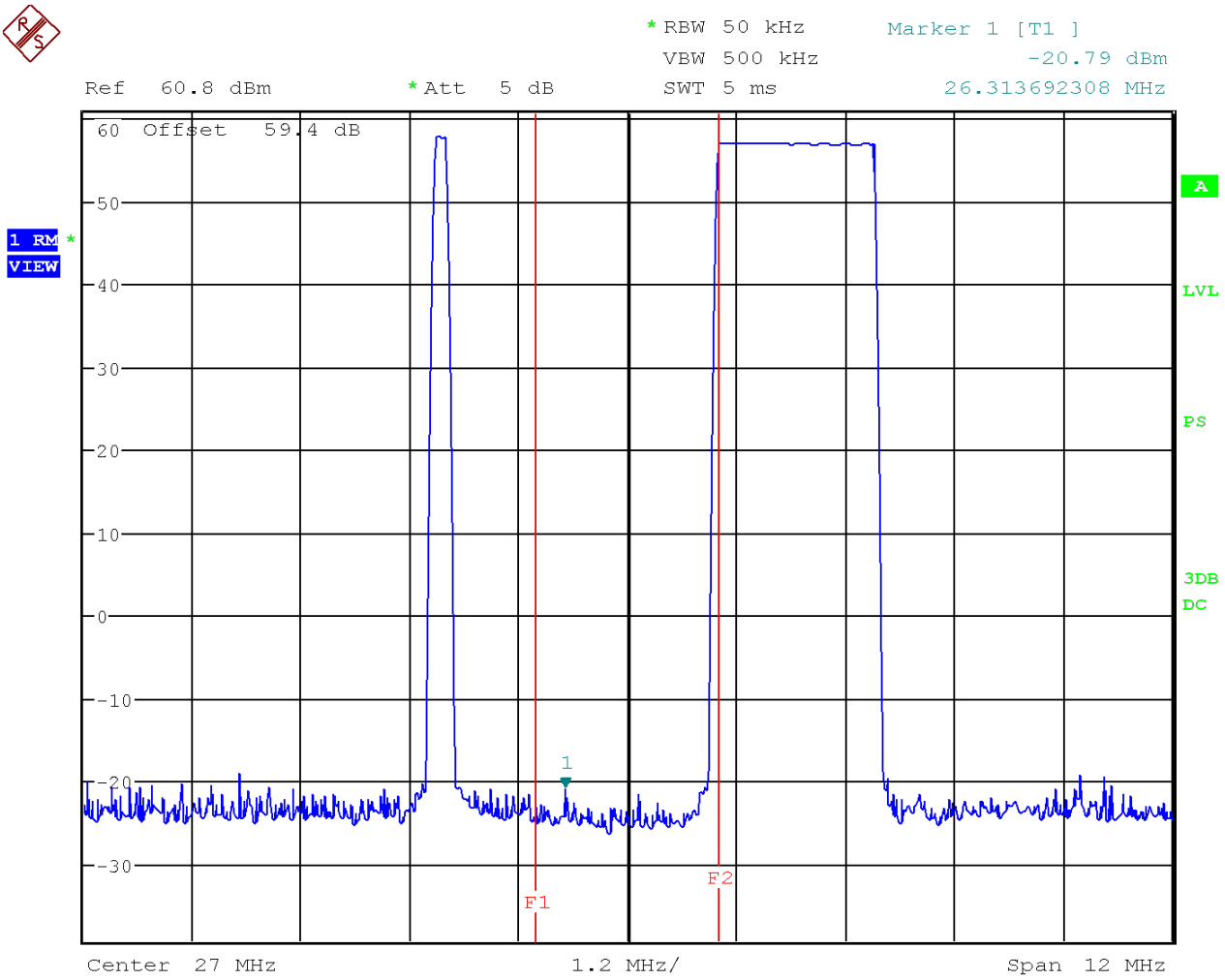
8.3.1 Out-of-band Rejection 26-28 MHz Region



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Note: The device automatically prevents transmission in the 27 MHz band.

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8.4 Bandwidth & Emission

Limits from FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Applicable Input Signals		
Signal	Occupied Bandwidth	Representative Emission Designator(s)
CW	n/a	n/a
12.5 kHz FM Voice	10.10 kHz	F3E
FM Data	160 Hz	F1D
AM	5.13 kHz	A1A, A3A, A3E
SSB (LSB or USB) AM	240 Hz	J3E, J1D, J3C, J3E, J3F

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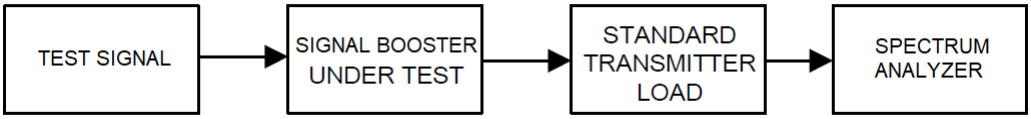
8.5 Input VS Output Signal Comparison

Limits from FCC Parts 97 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Test Setup


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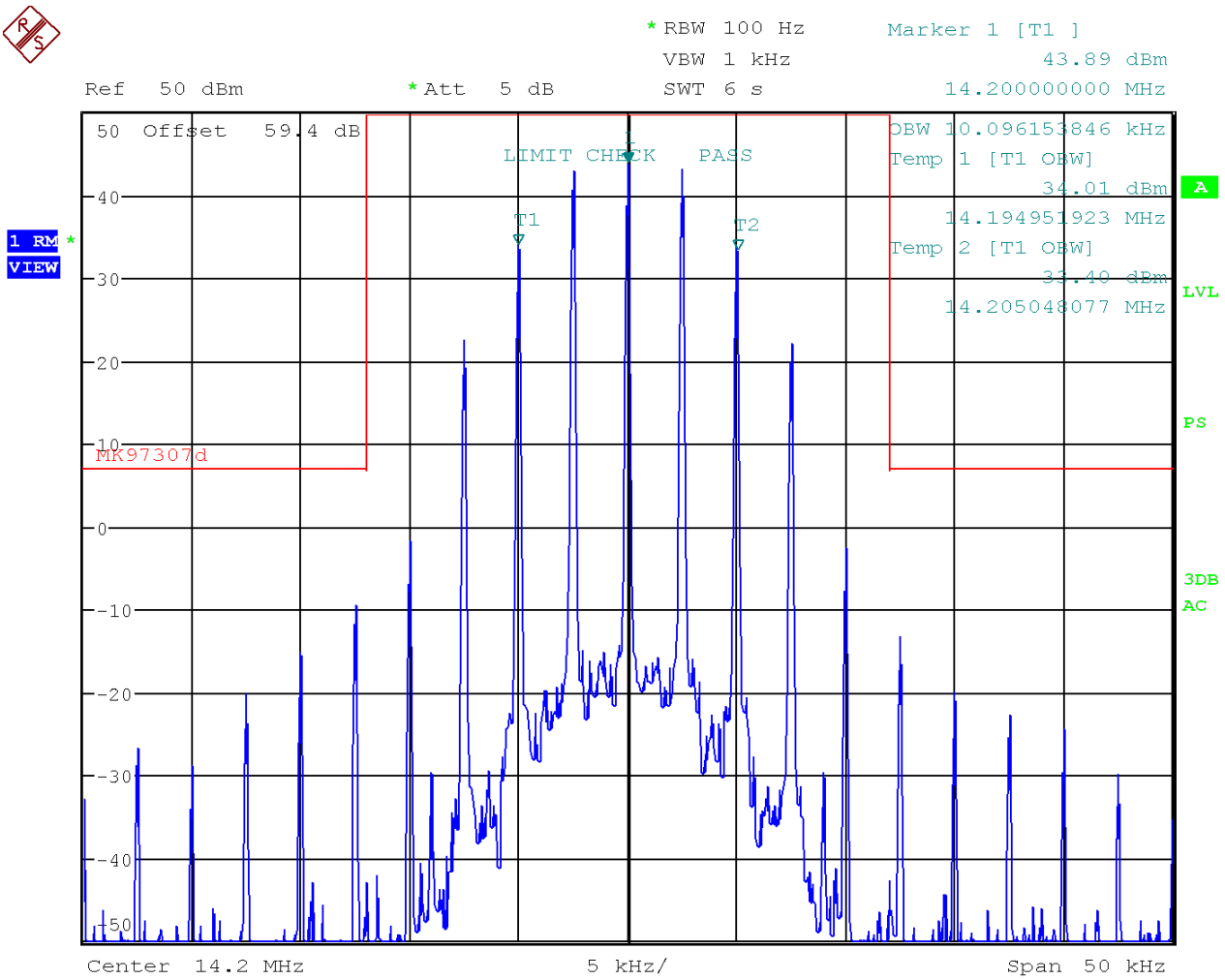
Input VS Output, Input Spectrum Plots

8.5.1 12.5 kHz FM



Date: 10.FEB.2021 08:38:14

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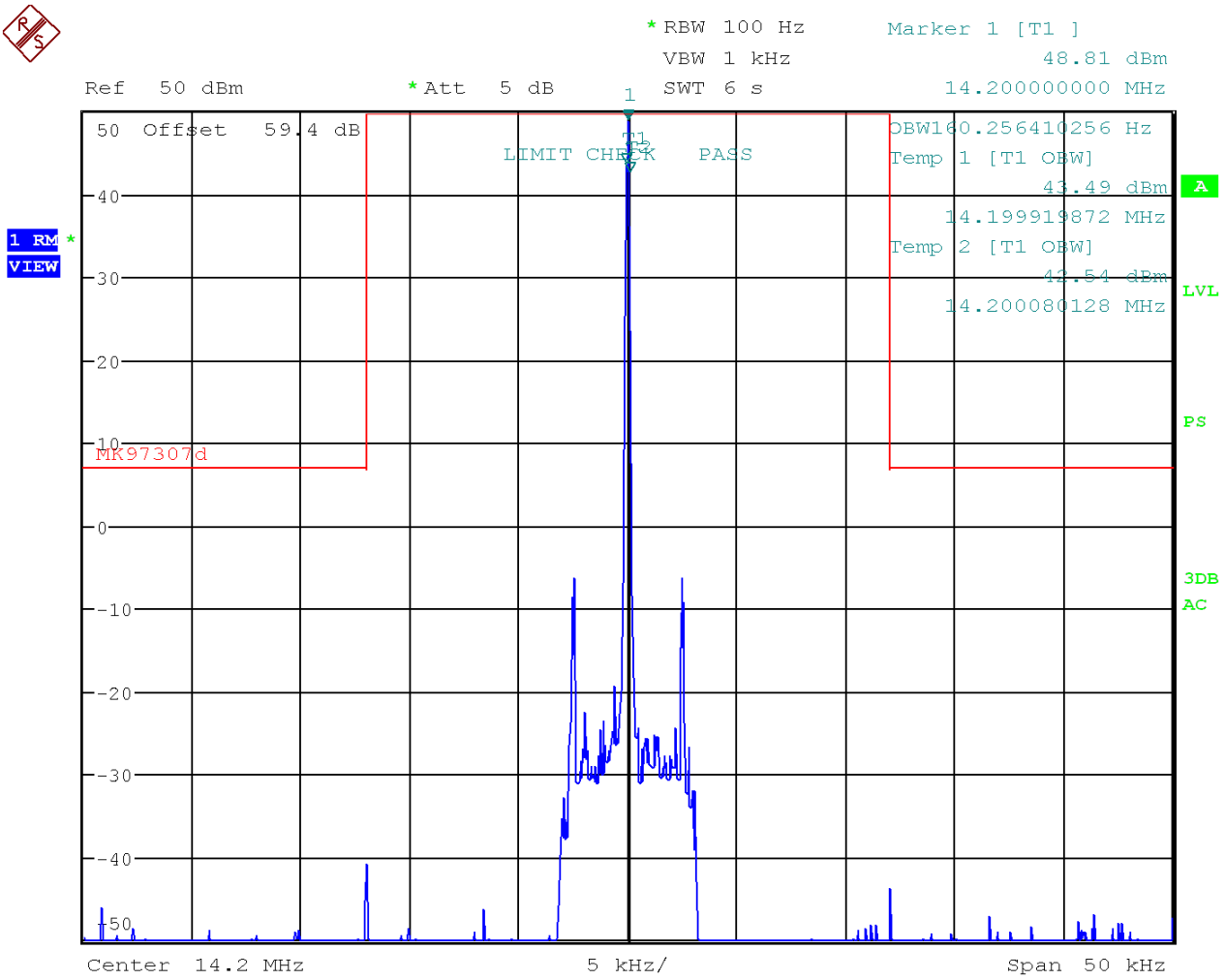
8.5.2 FM Data



Date: 10.FEB.2021 08:41:24

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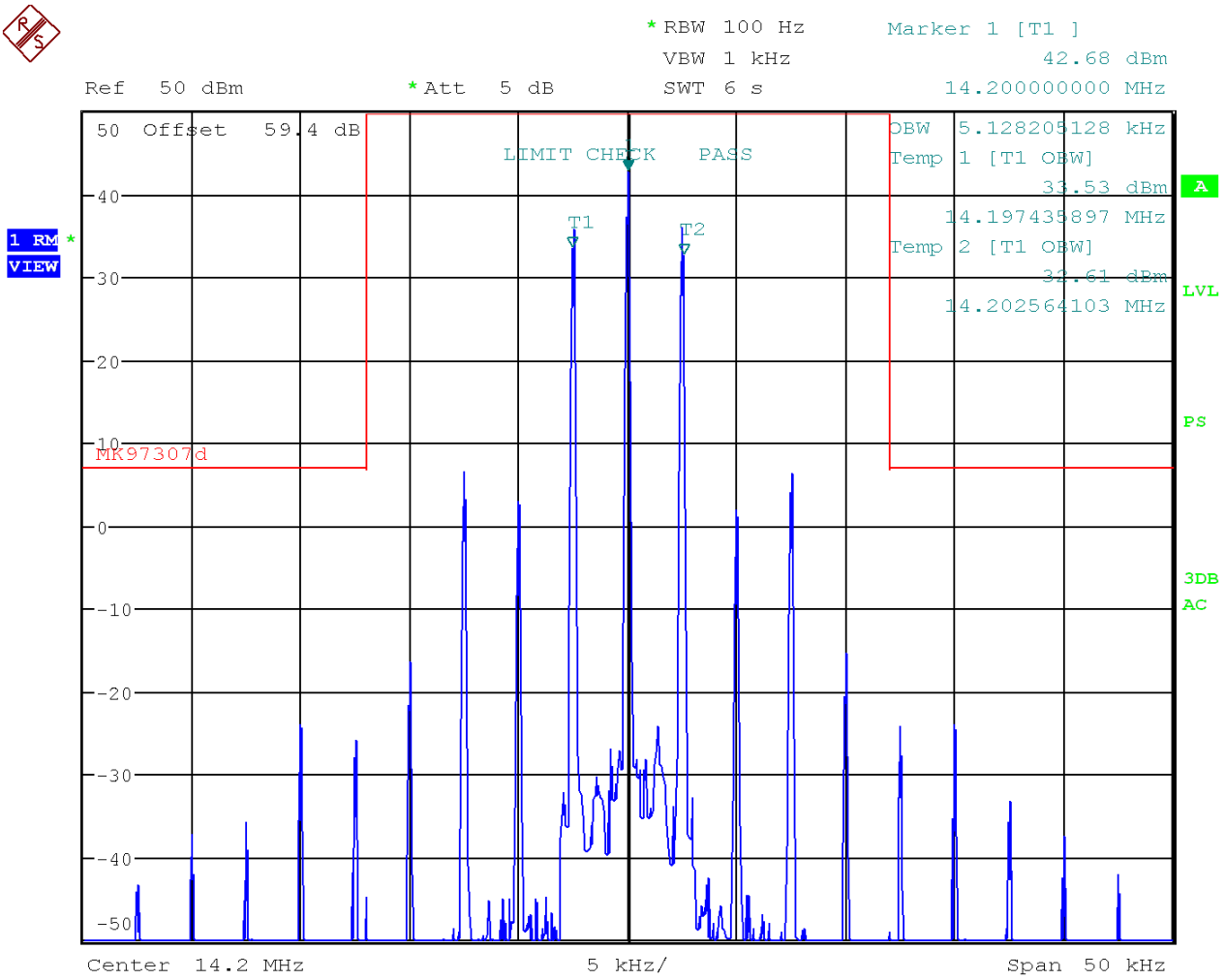
8.5.3 AM



Date: 10.FEB.2021 08:44:11

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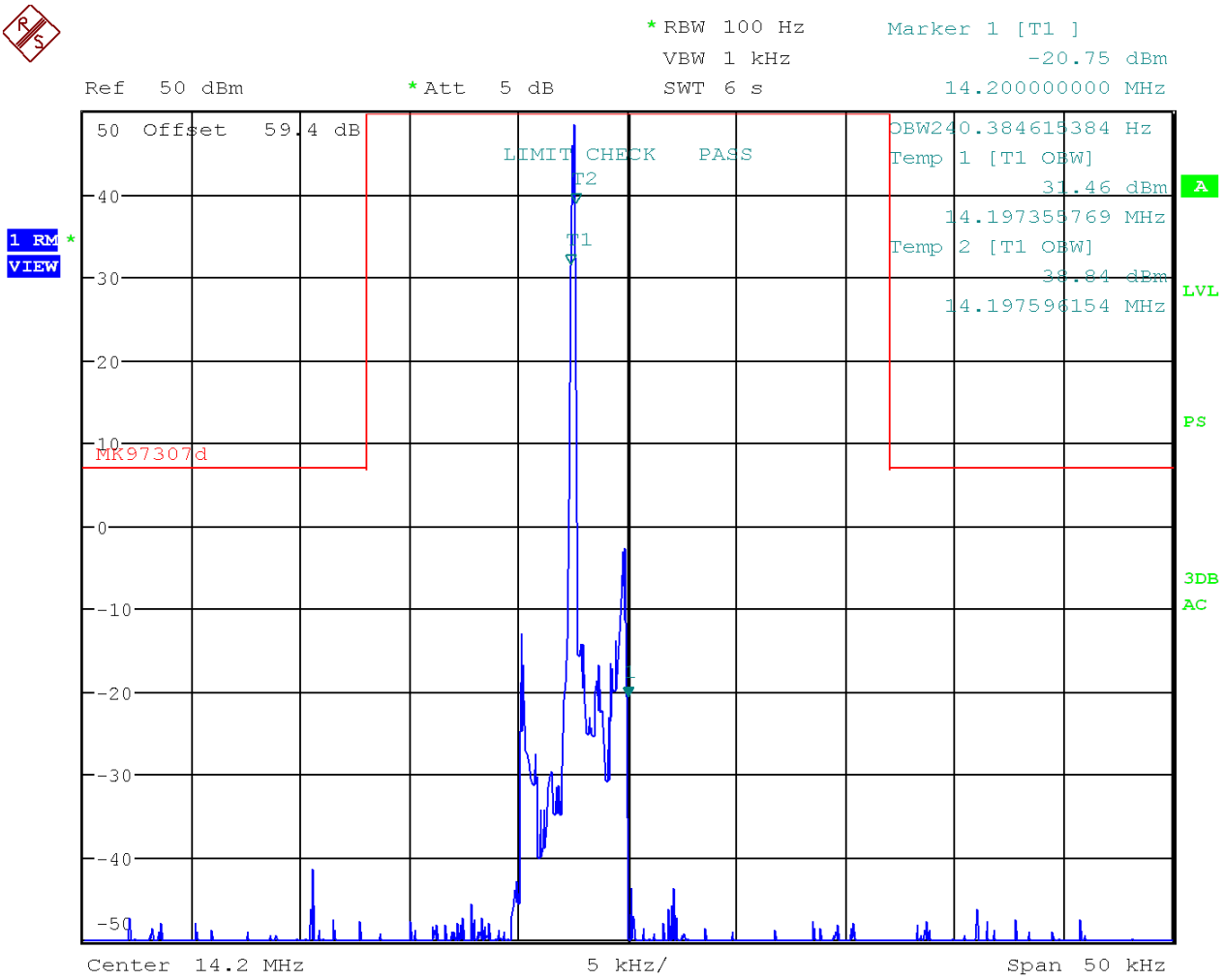
8.5.4 LSB AM



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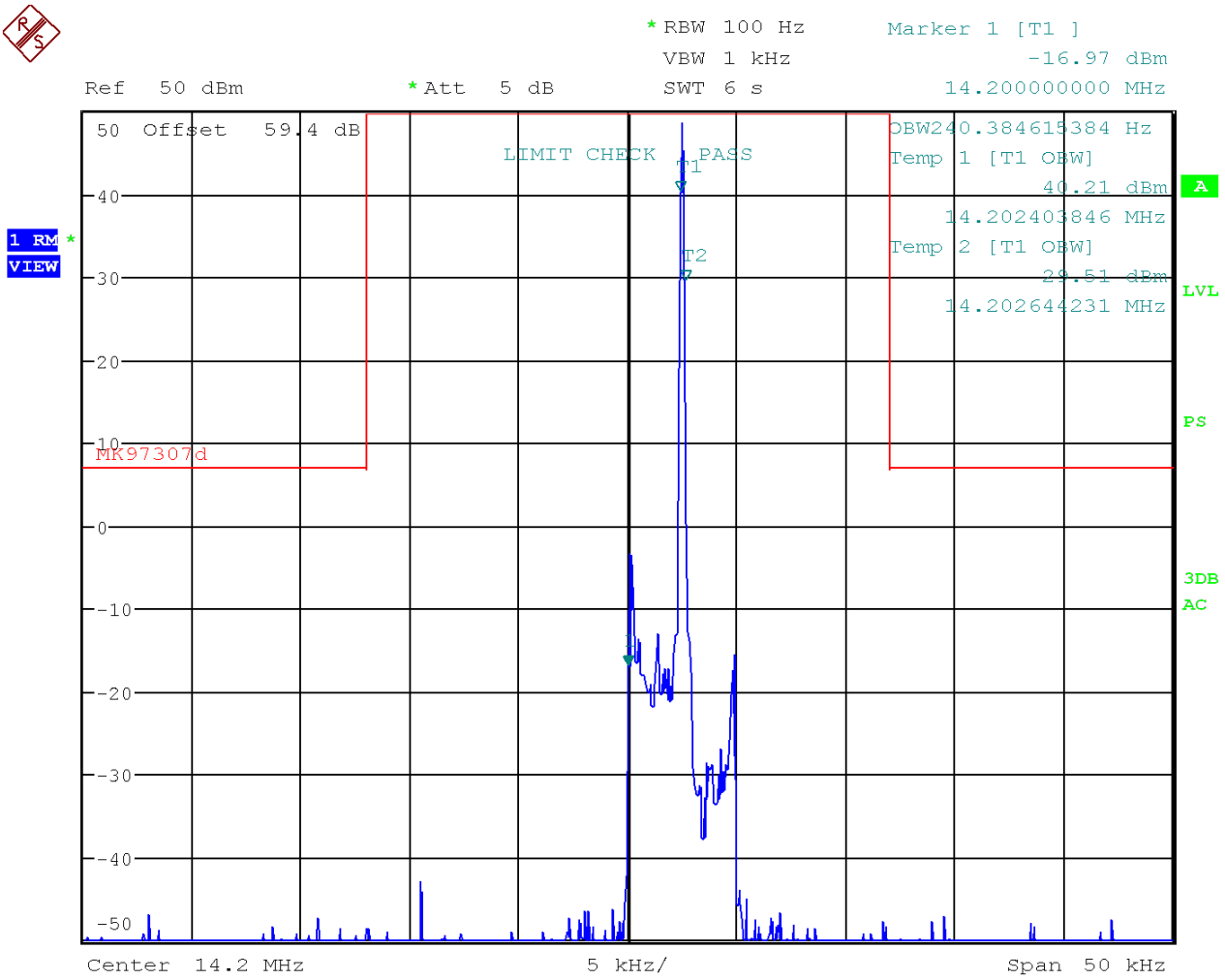
8.5.5 USB AM



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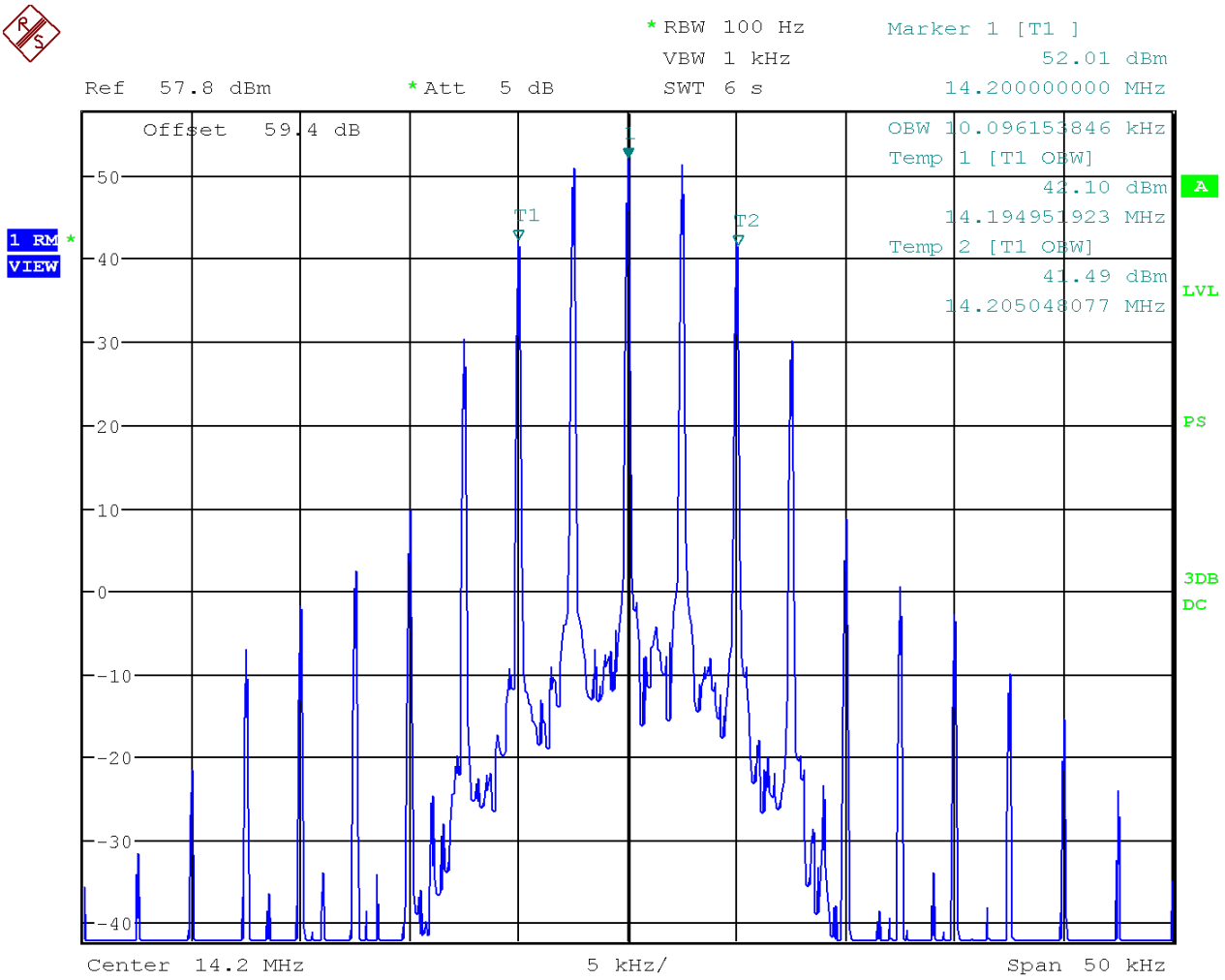
Input VS Output, Output Spectrum Plots

8.5.6 12.5 kHz FM



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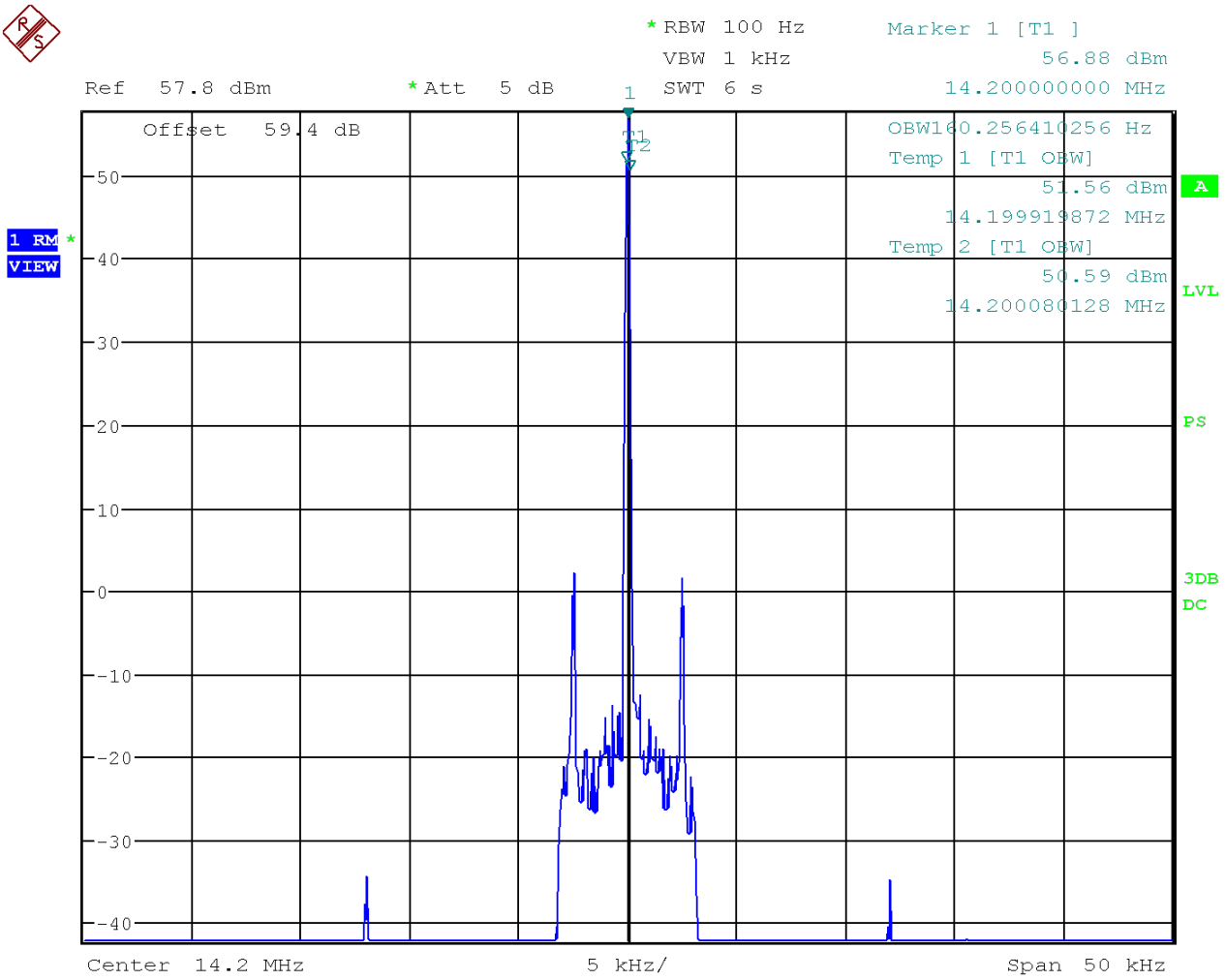
8.5.7 FM Data



Date: 10.FEB.2021 10:00:24

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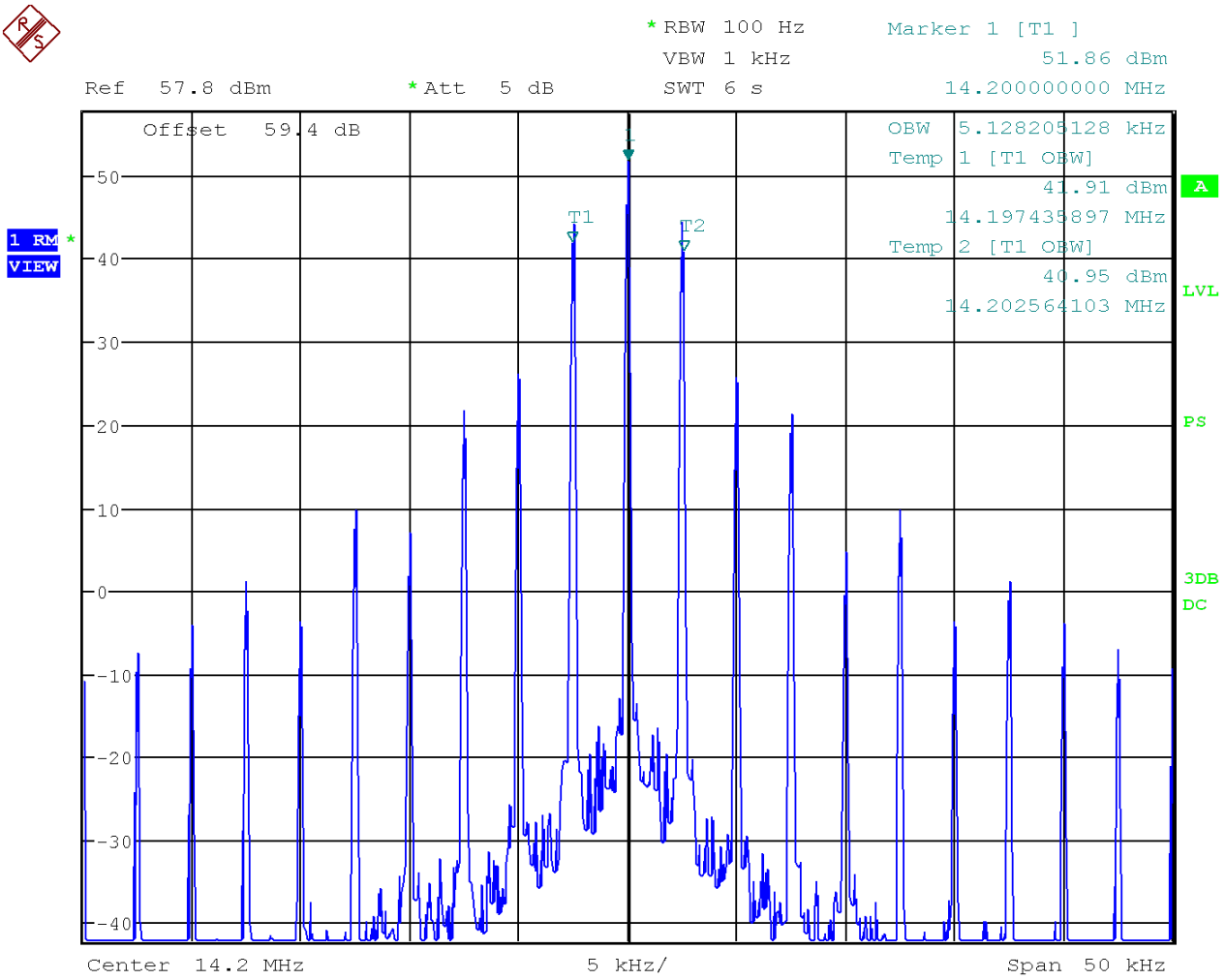
8.5.8 AM



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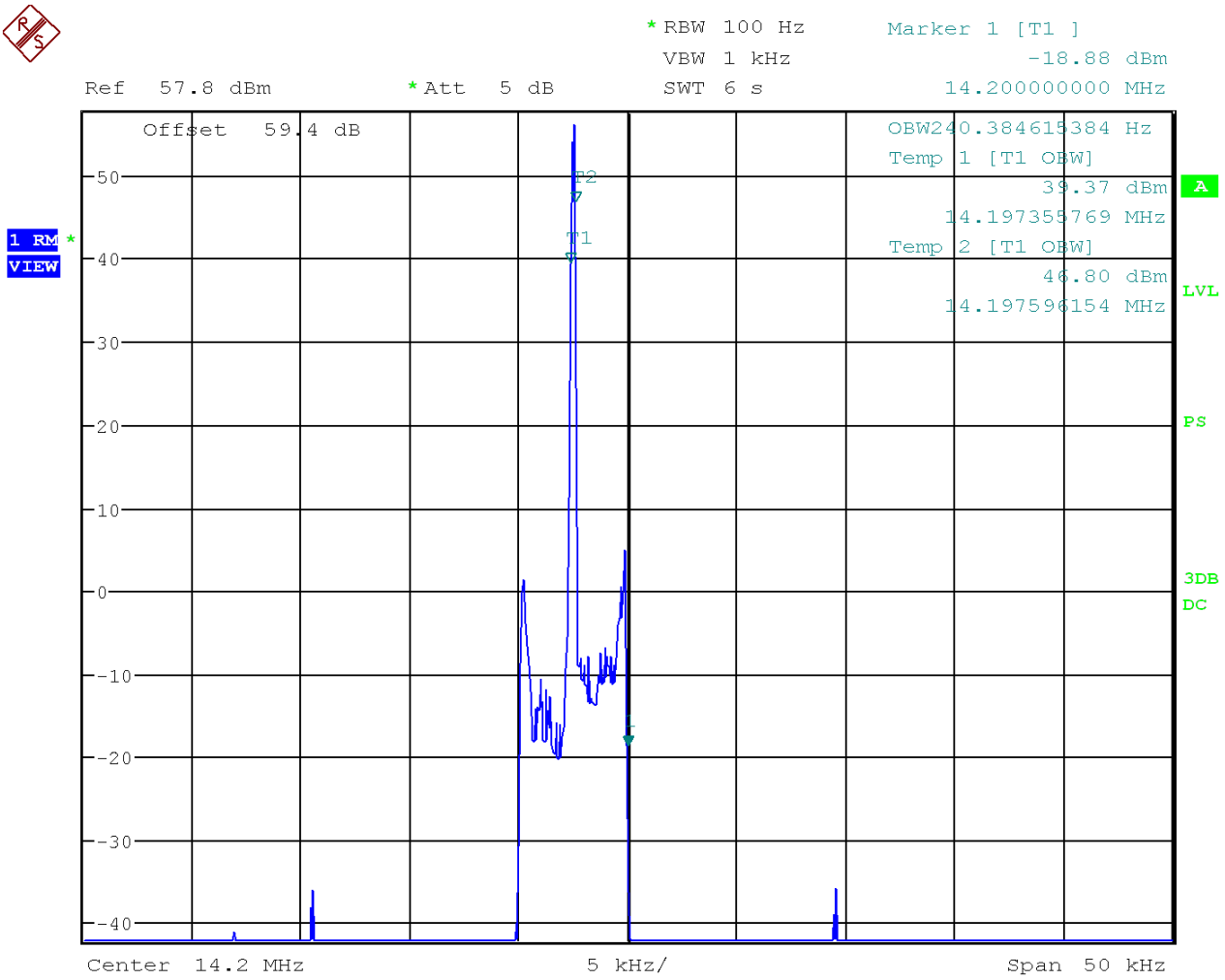
8.5.9 LSB AM



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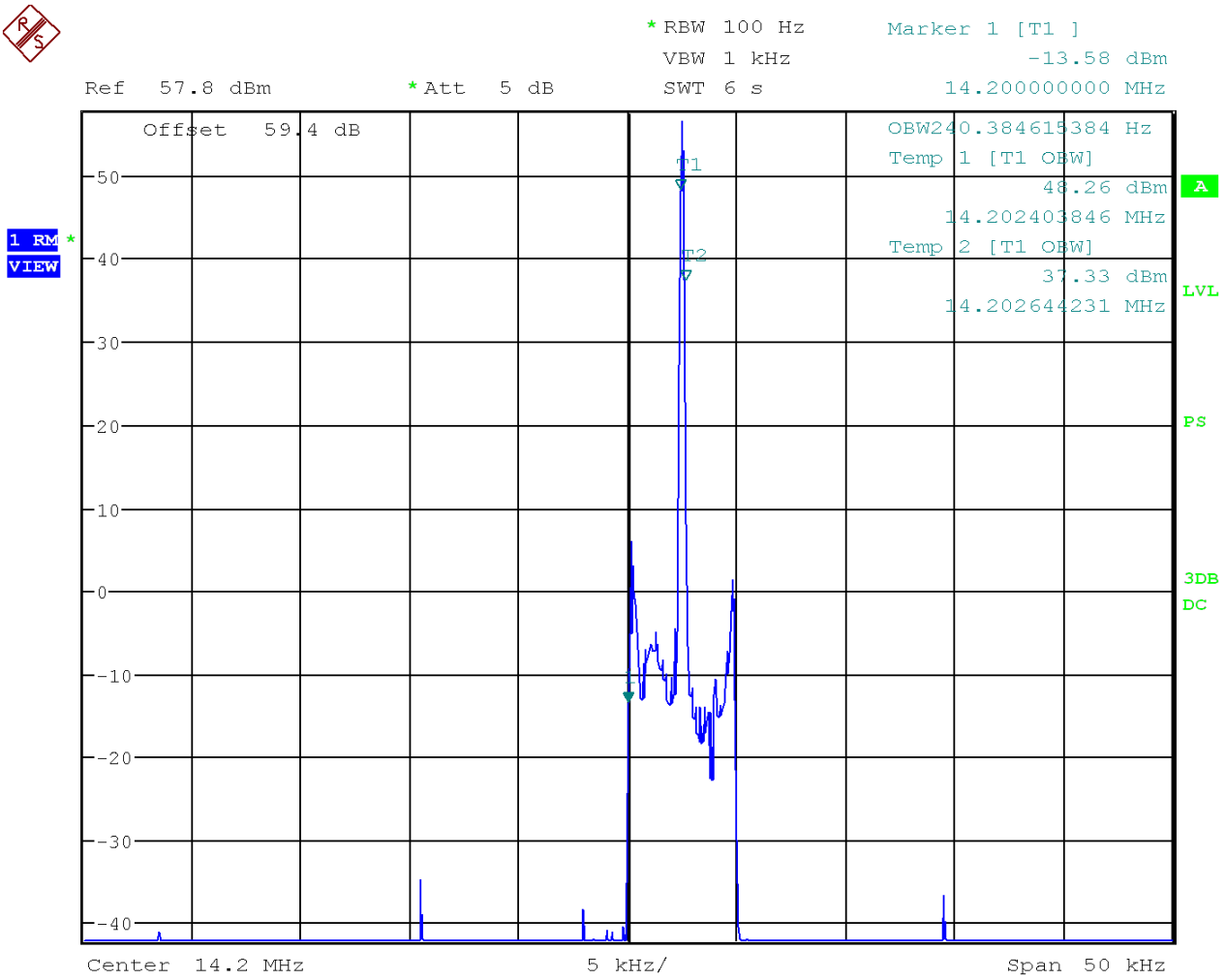
8.5.10 USB AM



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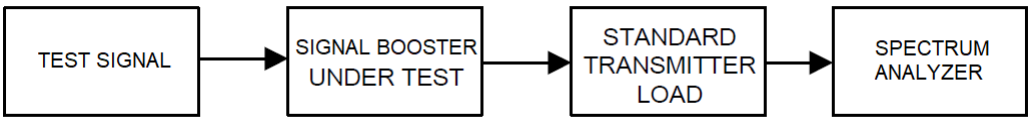
8.6 Conducted Spurious Emissions

Limits from FCC Parts 2.1051, 97.307 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Test Setup


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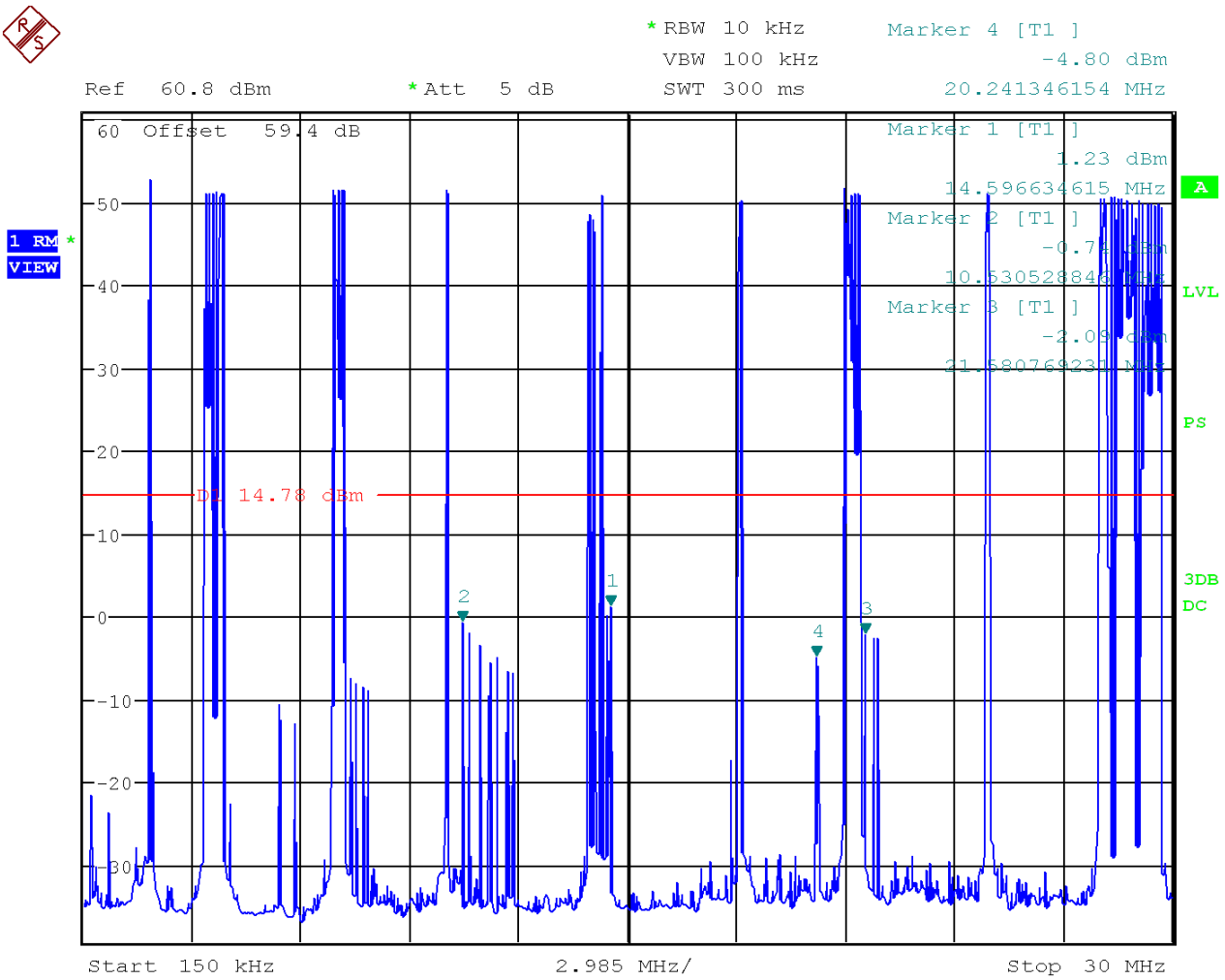
Conducted Spurious Emissions Spectrum Plots

8.6.1 All bands, Operating State, Scanned Below 30 MHz



Date: 10.FEB.2021 09:34:39

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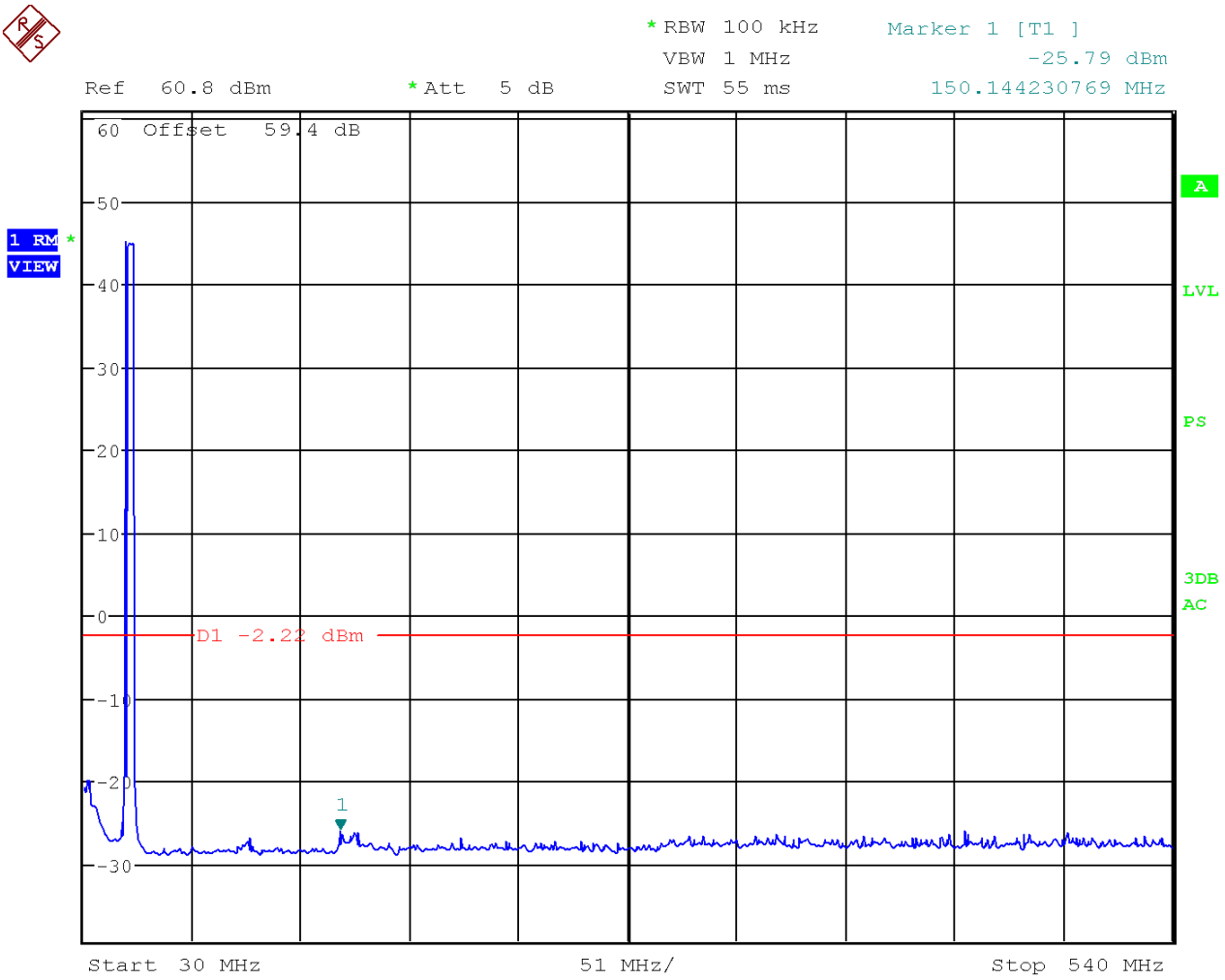
8.6.2 All bands, Operating State, Scanned Above 30 MHz



Date: 10.FEB.2021 09:25:47

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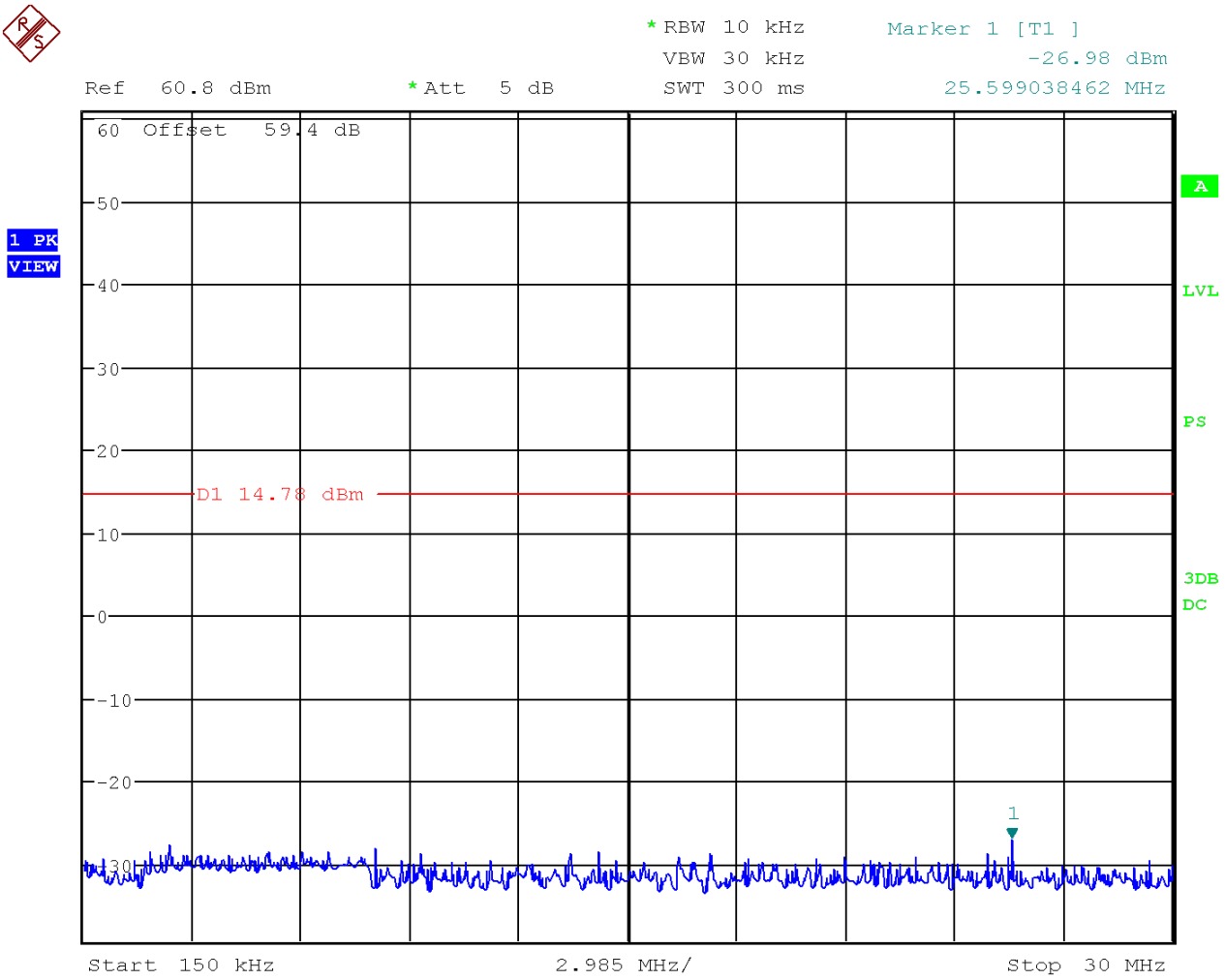
8.6.3 All bands, Stand-By State, Scanned Below 30 MHz



Date: 10.FEB.2021 09:21:44

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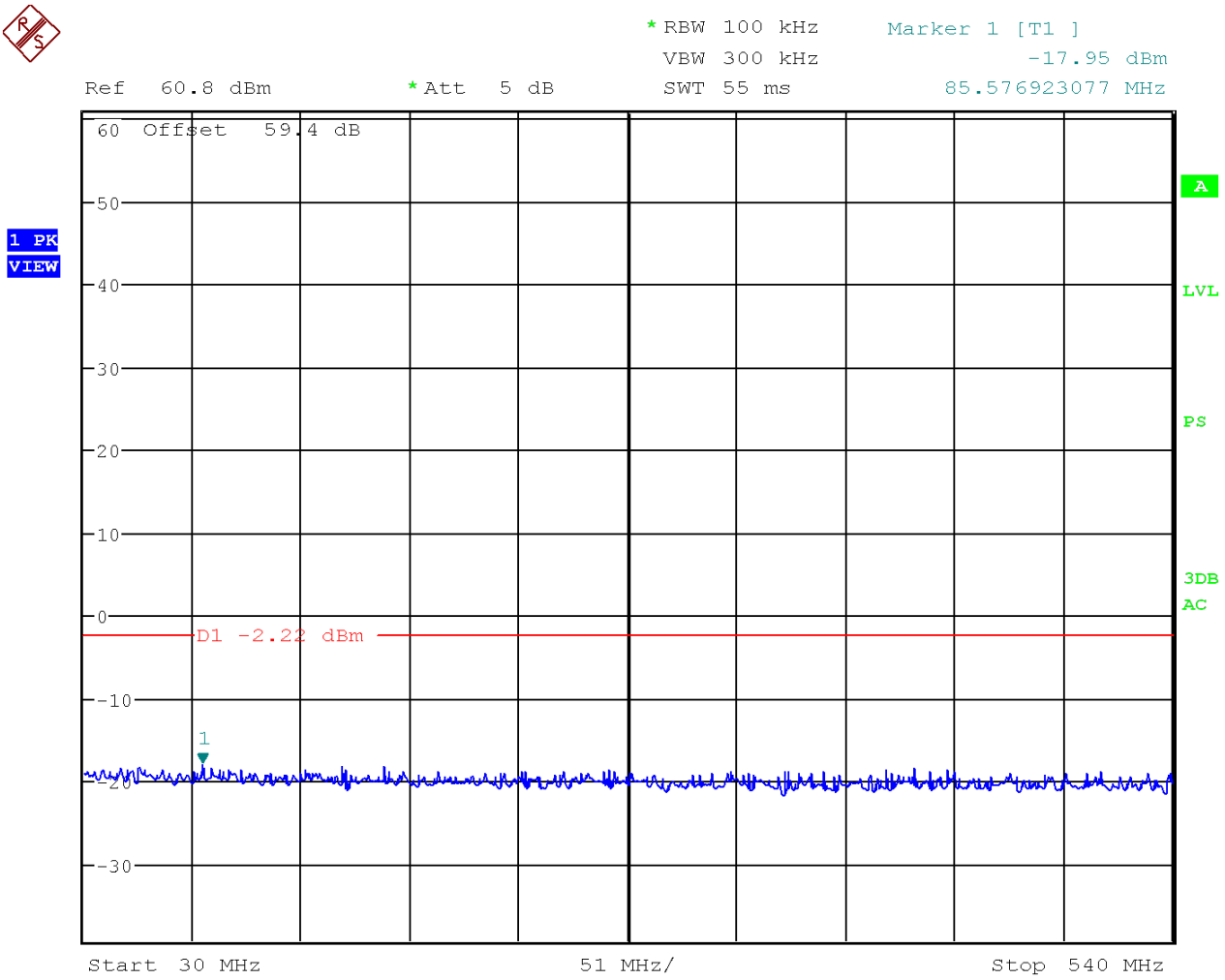
8.6.4 All bands, Stand-By State, Scanned Above 30 MHz



Date: 10.FEB.2021 09:22:26

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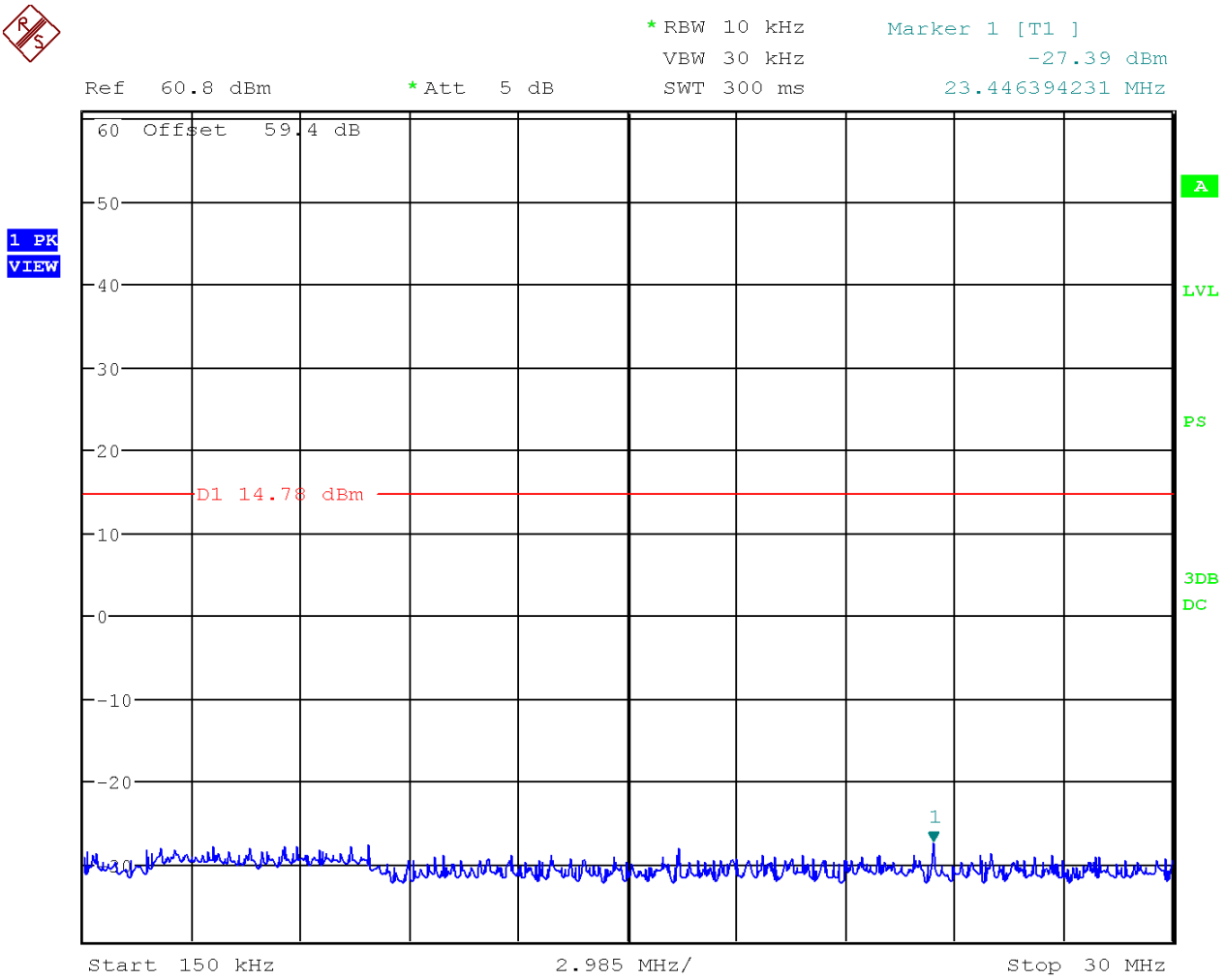
8.6.1 All bands, Off State, Scanned Below 30 MHz



Date: 10.FEB.2021 09:20:18

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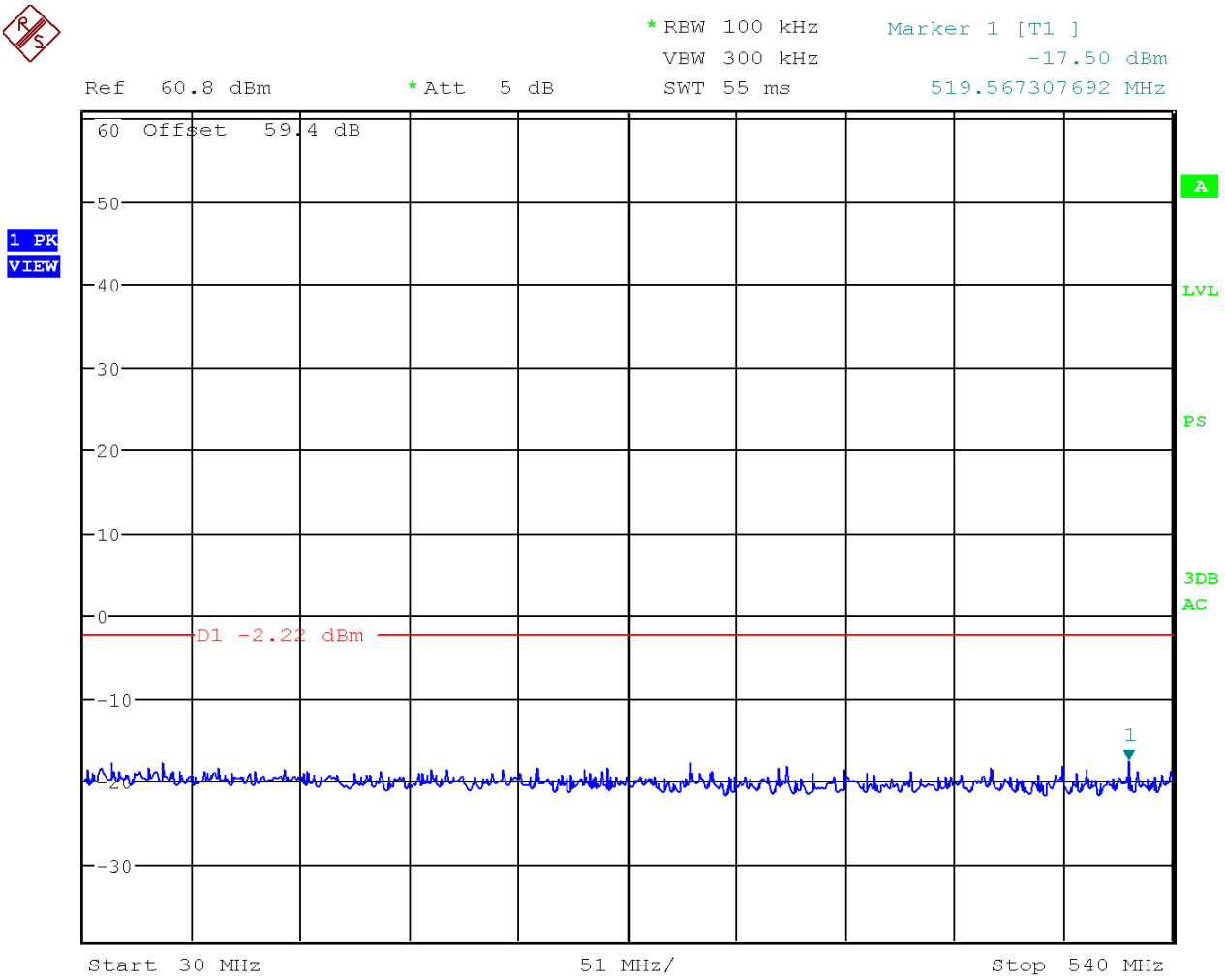
8.6.2 All bands, Off State, Scanned Above 30 MHz



Date: 10.FEB.2021 09:18:57

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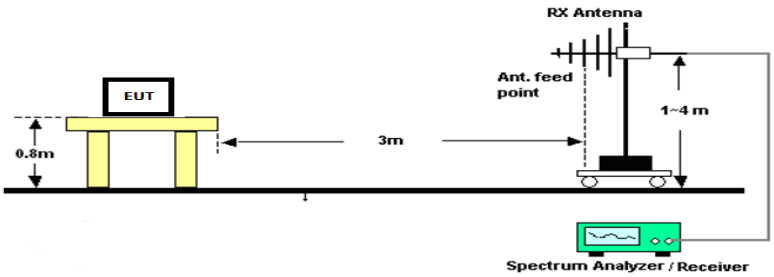
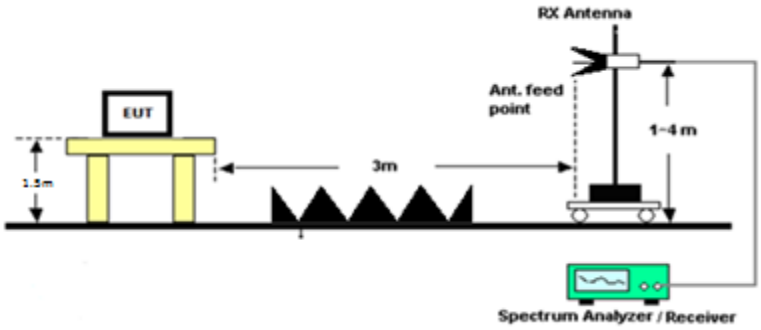
8.7 Spurious Radiated Emissions

Limits from FCC Parts 2.1053, 97.307 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Radiated Test Setup, 30 – 1000 MHz


Radiated Test Setup, Above 1000 MHz


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8.7.1 Peak Radiated Emissions from Each Band

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
1.80	0.54	PK	28.00	V	1.00	10.00	3.00	39.00	-58.38	14.78	73.16
3.80	2.84	PK	29.50	V	1.00	10.00	3.00	40.50	-56.88	14.78	71.66
7.10	71.00	PK	35.07	V	1.00	6.10	3.00	42.17	-55.21	14.78	69.99
10.13	91.17	PK	33.68	V	1.14	10.62	3.00	45.44	-51.94	14.78	66.72
14.20	2.92	PK	28.19	V	1.00	10.00	3.00	39.19	-58.19	14.78	72.97
18.10	2.92	PK	28.19	V	1.00	10.00	3.00	39.19	-58.19	14.78	72.97
21.25	2.92	PK	28.19	V	1.00	10.00	3.00	39.19	-58.19	14.78	72.97
24.90	224.10	PK	40.98	H	1.72	10.30	3.00	53.00	-44.38	14.78	59.16
29.00	232.00	PK	35.61	H	1.75	10.34	3.00	47.70	-49.68	14.78	64.46
52.00	364.00	PK	46.49	H	2.18	14.34	3.00	63.01	-34.37	-2.22	32.15

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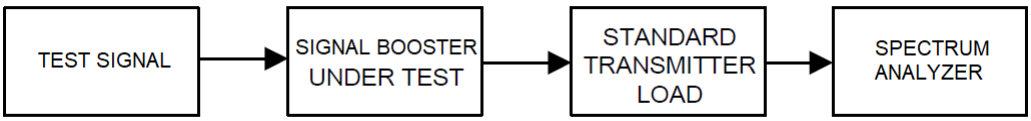
8.8 Modulation Characteristics

Limits from FCC Parts 2.1047, and test procedure from ANSI C63.26-2015.

Test Setup


N/A. The EUT does not have any means to modulate the incoming signal.

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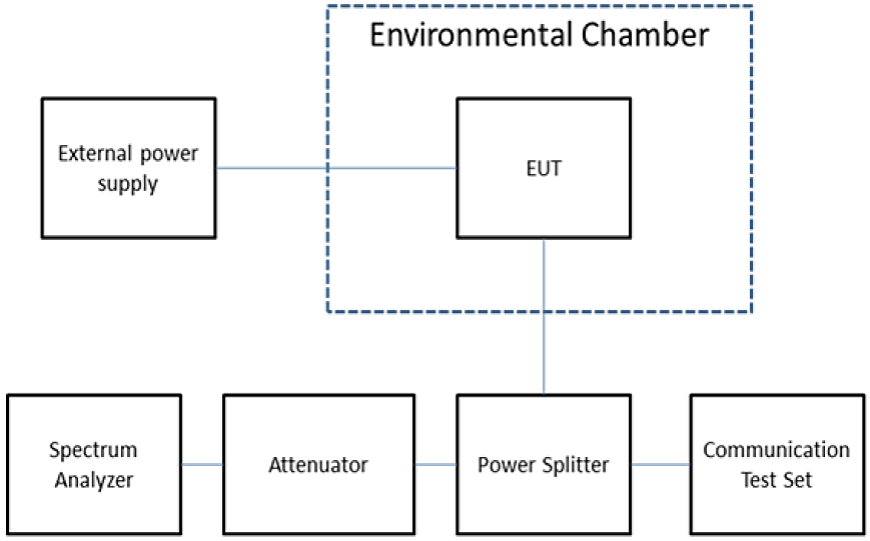
8.9 Frequency Stability

Limits from FCC Parts 2.1055, and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Test Setup



Test Results, Mode 1		
Tuned Frequency (MHz)	Max Deviation (ppm)	Limit (ppm)
n/a	n/a	n/a

N/A. The EUT is not subject to Frequency Stability per the rationale in KDB 935210

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9. 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. Test Setup Photographs

Test setup photographs are located in a separate supplementary document.

11. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_0333-21_FCC_PT97_Booster Class B_1	1	Initial release	February 12, 2021
TR_0333-21_FCC_PT97_Booster Class B_2	2	Changed references.	March 24, 2021

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END OF TEST REPORT

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