



Test Report - FCC PART 90 Booster Class A (B9A)

Applicant: TowerIQ Inc.

Approved for Release By:

Signature: *Bruno Clavier*

Name & Title: Bruno Clavier, General Manager

Date of Signature 11/11/2021

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1. Customer Information

Applicant: TowerIQ Inc.
Address: 13723 Riverport Drive
c/o Potter Electric Signal Company
Saint Louis, Missouri, 63043, United States

1.1 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 90 (PRIVATE LAND MOBILE RADIO SERVICES) known as Licensed Land Mobile; 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.

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 90 Subpart I		
FCC Part 90 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
90.205	Transmitter Power	Pass
90.207	Types of Emissions	Pass
90.209	Bandwidth limitations	Pass
90.210	Emission masks, In-band	Pass
90.210	Emission masks, Out-of-band	Pass
90.213	Frequency stability	n/a
90.214	Transient Frequency Behavior	n/a
90.219 (d)(6)(i)	ERP of intermodulation products	n/a ¹
90.219 (d)(6)(ii)	ERP of noise within the passband	n/a ¹
90.219 (d)(6)(iii)	ERP of noise on spectrum < 1 MHz outside of the passband	n/a ¹
90.219 (d)(3)(i), (e)(1)	ERP of Radiated Power	n/a ¹
90.219 (e)(2)	Noise figure	Pass
90.219 (e)(3)	Spurious emissions	Pass
90.219 (e)(4)(i)(ii)(iii)	Retransmitted Signals	Pass
90.221	Adjacent channel power limits	Pass

Note 1: Requirements in Part 90.219 (d) apply at deployment of this EUT, therefore are not applicable at certification.

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)	Pass
4.2	AGC Threshold	Reported
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 (optional)	Reported
4.6	Noise Figure	Pass
4.7.2	Out-of-band/Out-of-block Conducted Emissions (Intermodulation Products)	Pass
4.7.3	EUT Spurious Conducted Emissions	Pass
4.8	Frequency Stability	n/a
4.9	Spurious Radiated Emissions	Pass



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KDB 484596 D01 v01		
FCC KDB 935210 D05 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
3 a	Introduction	Reported
3 b	Explain the Differences	Reported
3 c	Spot-check Verification Data	Pass
3 d	Reference Section	Reported

Introduction

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



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2.2 Testing was performed, reviewed by

Dates of Testing: 9/28/2021

Signature:

A handwritten signature of Tim Royer.



Name & Title: Tim Royer, EMC Engineer

Date of Signature 11/11/2021

Signature:

A handwritten signature of Kristoffer Costa.

Name & Title: Kristoffer Costa, EMC Technician

Date of Signature 11/11/2021



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

The test sample was received: 9/28/2021

3.1 Definitions

Signal booster: A device or system that automatically receives, amplifies, and retransmits signals from wireless stations into and out of building interiors, tunnels, shielded outdoor areas and other locations where these signals would otherwise be too weak for reliable communications. Signal booster systems may contain both Class A and Class B signal boosters as components.

Class A signal booster: A signal booster designed to retransmit signals on one or more specific channels. A signal booster is deemed to be a Class A signal booster if none of its passbands exceed 75 kHz.

Class B signal booster: A signal booster designed to retransmit any signals within a wide frequency band. A signal booster is deemed to be a Class B signal booster if it has a passband that exceeds 75 kHz.



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:	2AXVJ4500407
Brief Description	Distributed Activity Auxiliary Radio Communication System
Type of Modular	n/a
Model(s) #	n/a
Firmware version	n/a
Software version	n/a
Serial Number	n/a

Technical Characteristics	
Technology	Distributed Activity Auxiliary Radio Communication System
Frequency Range	450 MHz- 512 MHz
RF O/P Power (Max.)	20.96 dBm, 0.125 W
Modulation	n/a
Bandwidth & Emission Class	n/a
Number of Channels	2
Duty Cycle	100%
Antenna Connector	N Type
Voltage Rating (AC or Batt.)	DC, 24V

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	200 MHz-1G	Operational	0 dB
2	1G-12.5G	Operational	0 dB

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



3.3 Configuration of EUT

Test Modes		
Band (MHz)	Link Direction	Test Frequencies (MHz)
450 MHz-512 MHz	Downlink	450.5 MHz
		490.5 MHz
		505.5 MHz
450 MHz-512 MHz	Uplink	456.5 MHz
		495.5 MHz
		510.5 MHz

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 laptop was used to control the EUT.

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 90 Licensed device:

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

4.2 Applied Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 90 Subpart I, 90.219

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:

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.

7.1 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	5/3/2024
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	2/25/20	2/24/2023
CHAMBER	CHAMBER	Panashield	3M	N/A	3/12/19	3/11/2022
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	2/27/19	2/26/2022
Receiver	EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	5/27/21	5/26/2024
Signal Generator	Signal Generator HP 8648C	HP	8648C	35537A01679	3/29/19	3/28/2022
Signal Generator	Signal Generator R&S SMU-200A	Rohde & Schwarz	SMU200A	103195	4/23/19	4/22/2022

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



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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 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.



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8.1 Power at the Final Amplifier

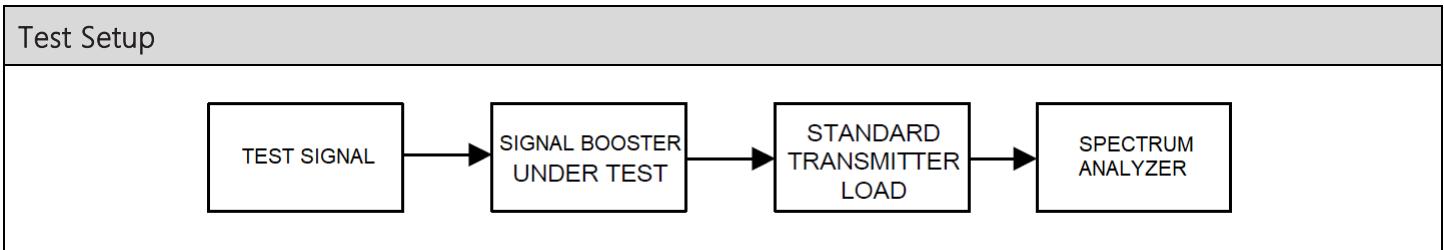
Limits from FCC Part 2.1033 (c)(8).

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 (W)
24	0.5625	13.5

8.2 RF Output Power & Gain

Limits from FCC Parts 2.1046(a), and 90.205 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

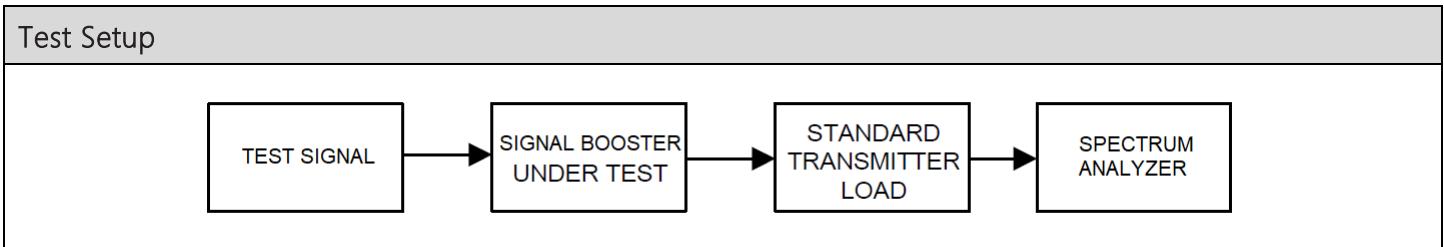


Test Results, Power Output

Link Direction	Max Power Output (dBm)	Max Power Output (W)
UHF Uplink	20.73	0.118
UHF Downlink	20.96	0.125

8.3 Out-of-band Rejection

Limits and test method from FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

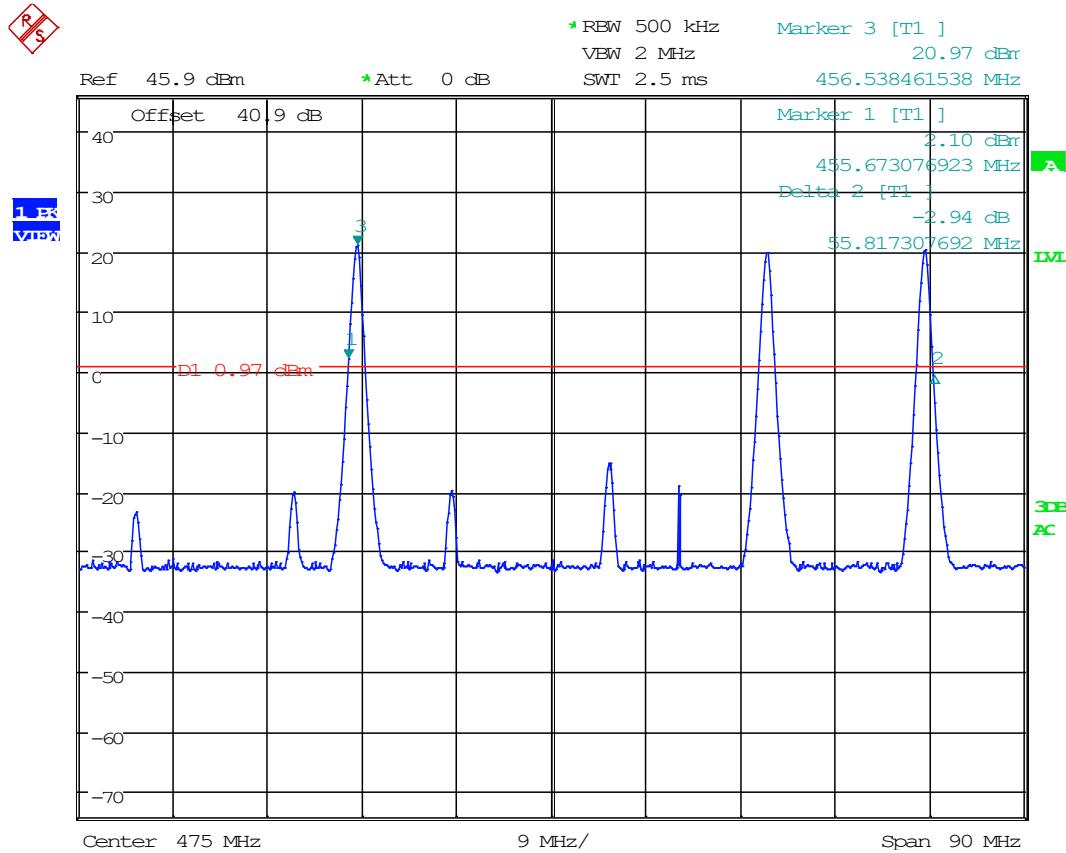


Test Results, Out-of-band Rejection and Class of Operation

Operating Band (MHz)	Link Direction	Passband (kHz)	Class of Operation
450-512 MHz	Uplink	< 75 kHz	Class A
450-512 MHz	Downlink	< 75 kHz	Class A

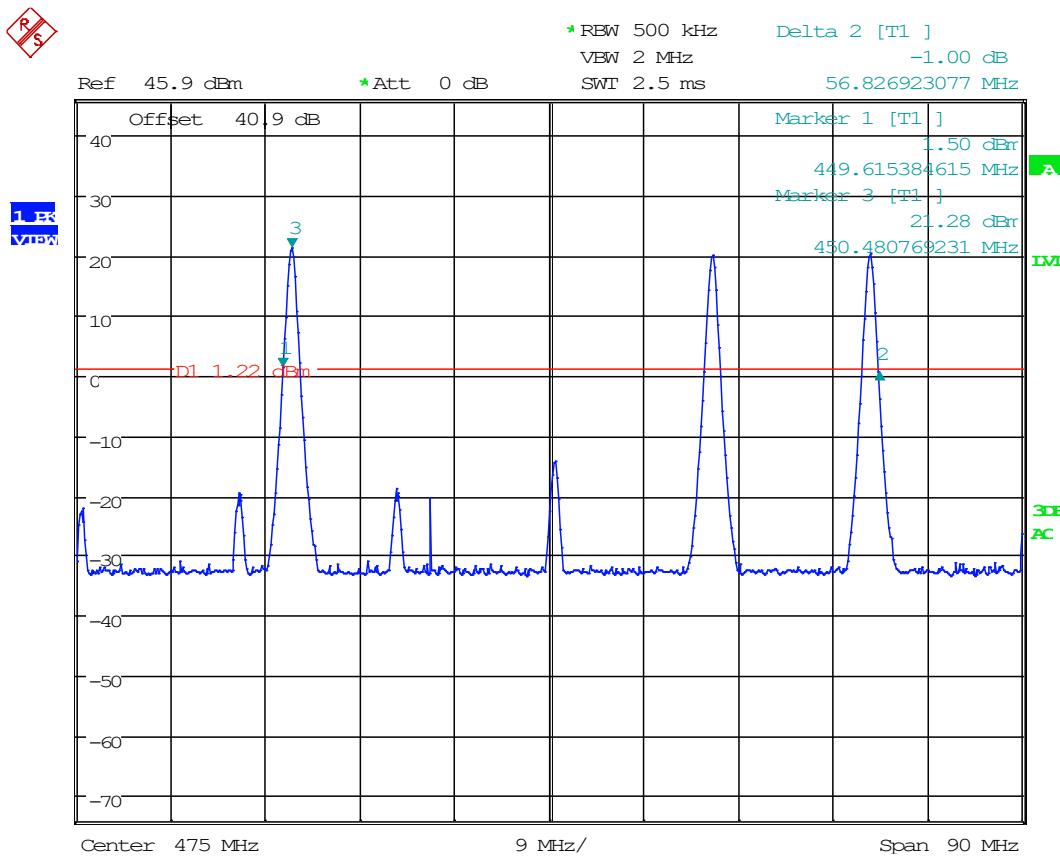
Out-of-band Rejection, Spectrum Plots

8.3.1 UHF Band, Uplink



Date: 28.SEP.2021 09:38:23

8.3.2 UHF Band, Downlink



Date: 28.SEP.2021 09:30:28



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8.4 Bandwidth & Emission

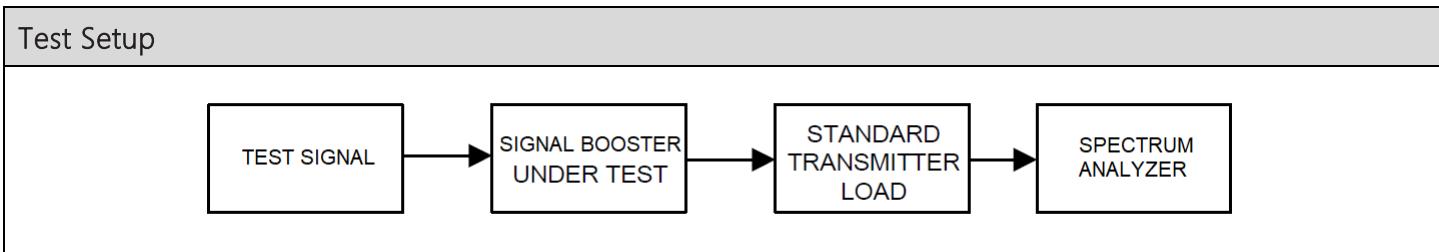
Limits from FCC Parts 90.209 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Authorized Bandwidth		
Rule Part	Operating Range (MHz)	Authorized Bandwidth (kHz)
Part 90	450 MHz- 512 MHz	11.25

Applicable Input Signals		
Signal	Occupied Bandwidth (kHz)	Representative Emission Designator(s)
12.5 kHz FM	7.93269	7K93F3E

8.5 Input VS Output Signal Comparison

Limits from FCC Parts 90.210 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.



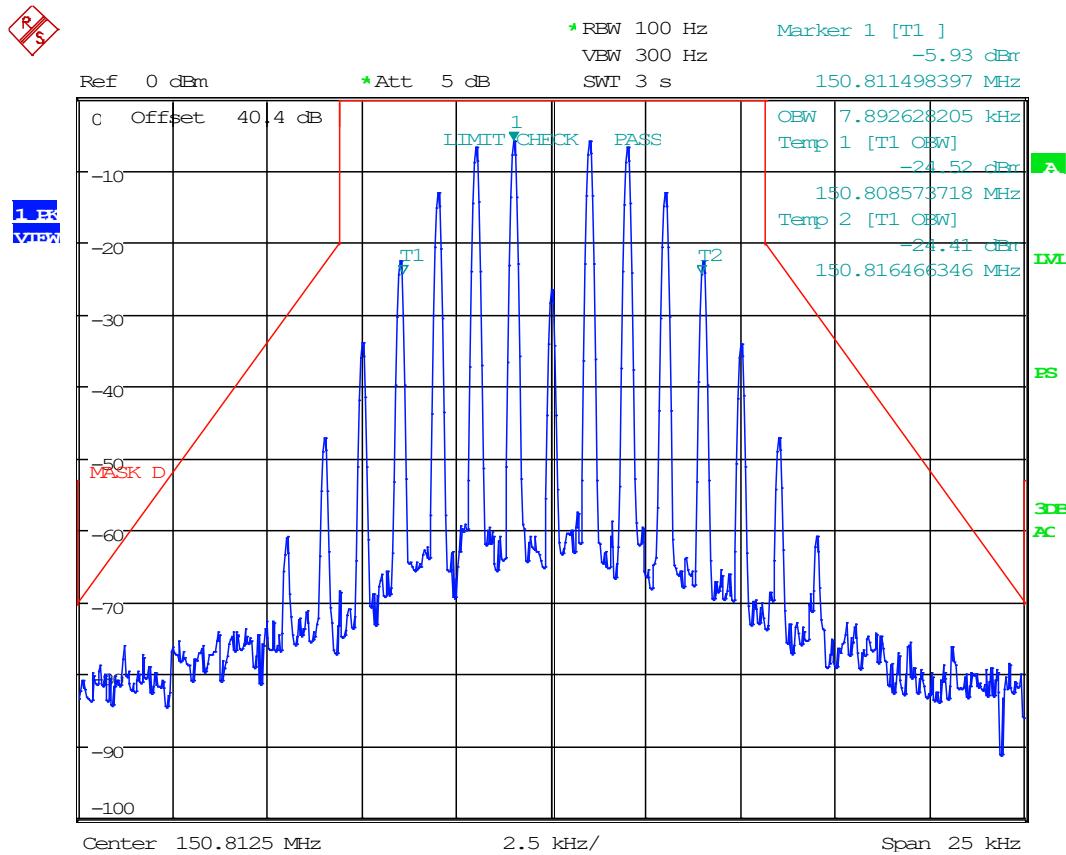
UHF Band Input VS Output Comparison

Test Results, Input VS Output Comparison

Link Direction	Tuned Frequency (MHz)	Input Signal	AGC Level	99% OBW of Input (kHz)	99% OBW of Output (kHz)	Change (%)
Uplink	495.5	12.5 kHz FM	@ AGC	7.89	7.93	1
			@ AGC+3 dB	7.89	7.93	1
Downlink	490.5	12.5 kHz FM	@ AGC	7.89	7.93	1
			@ AGC+3 dB	7.89	7.93	1

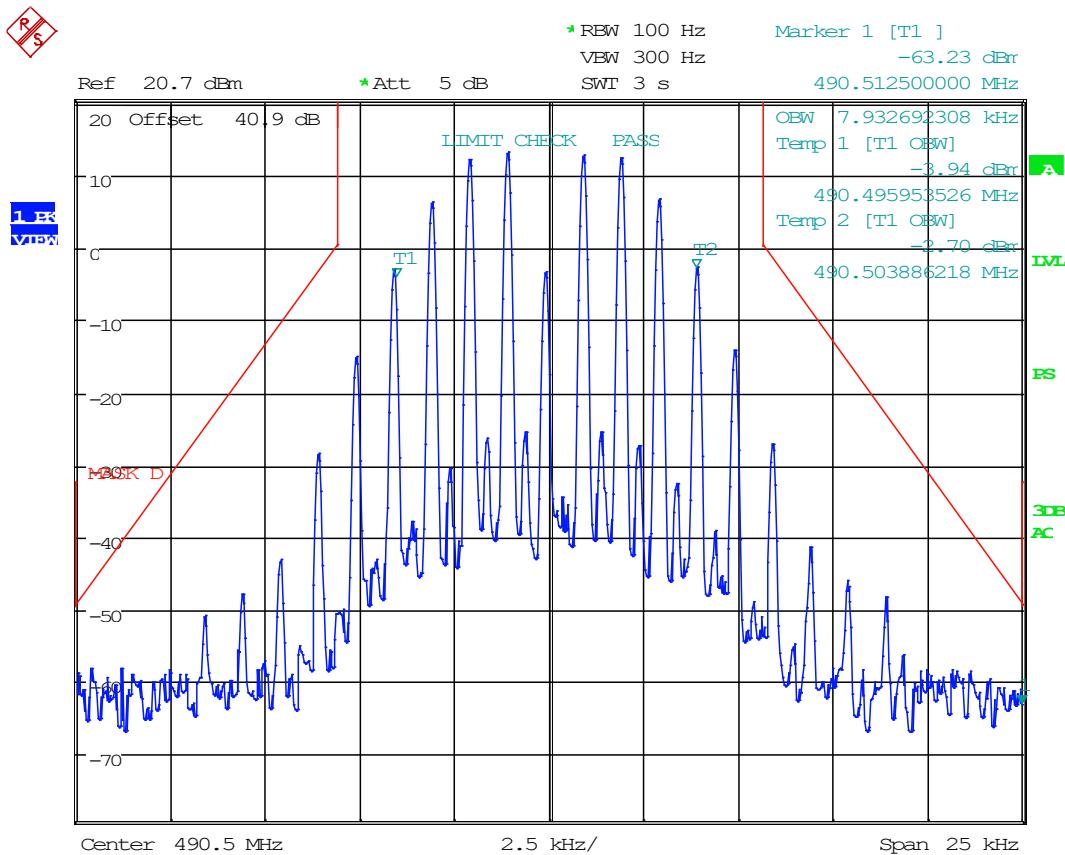
Input VS Output, Input Spectrum Plots

8.5.1 12.5 kHz FM



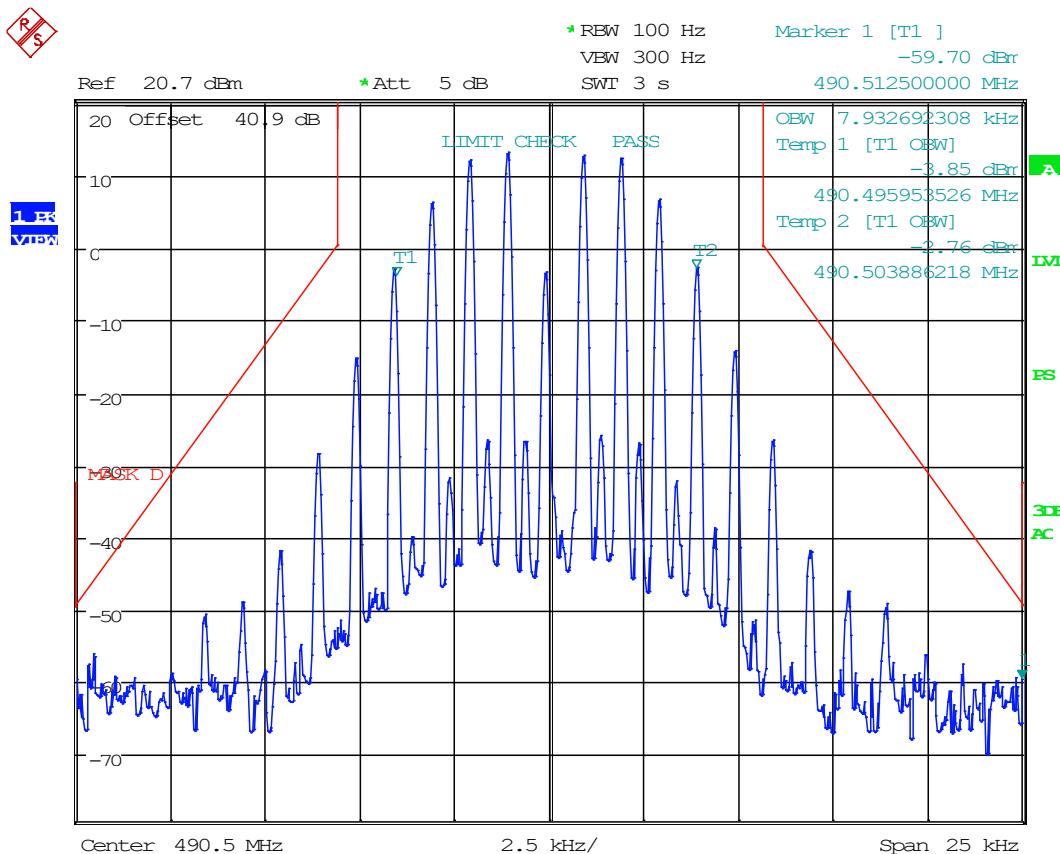
Date: 6.OCT.2020 20:08:30

8.5.2 12.5 kHz FM, 490.5 MHz, AGC



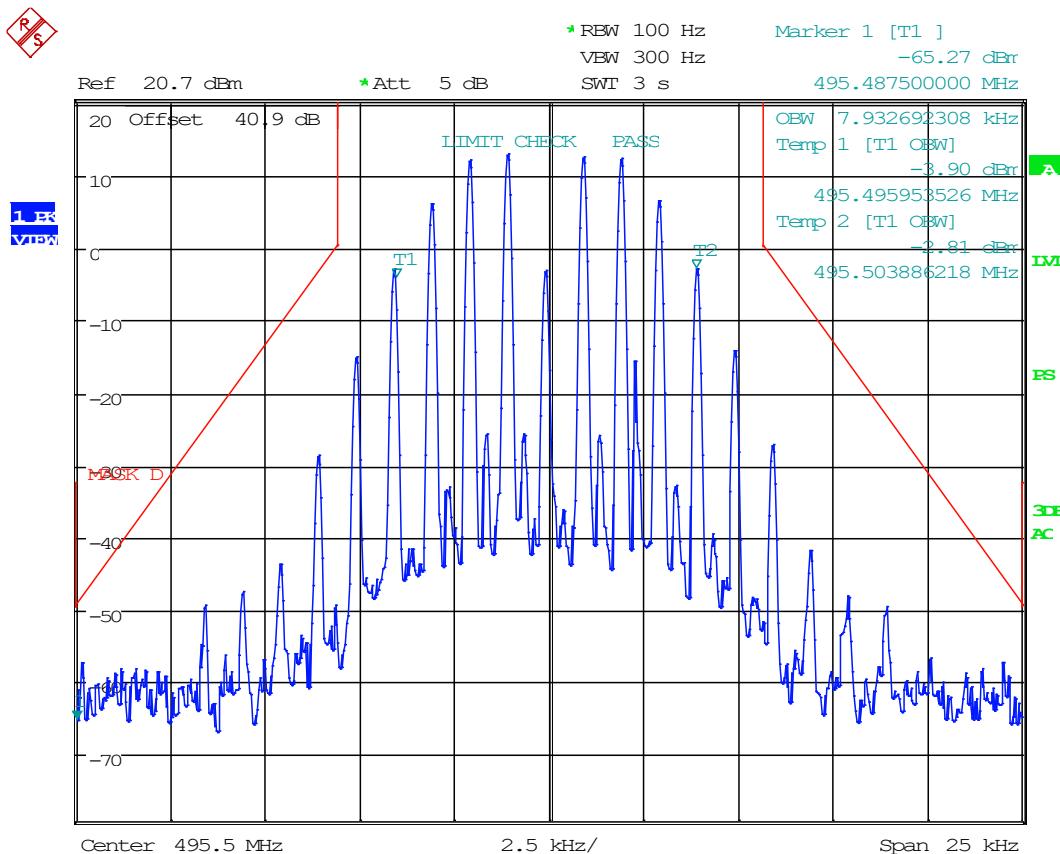
Date: 28.SEP.2021 11:58:44

8.5.1 12.5 kHz FM, 490.5 MHz, AGC +3



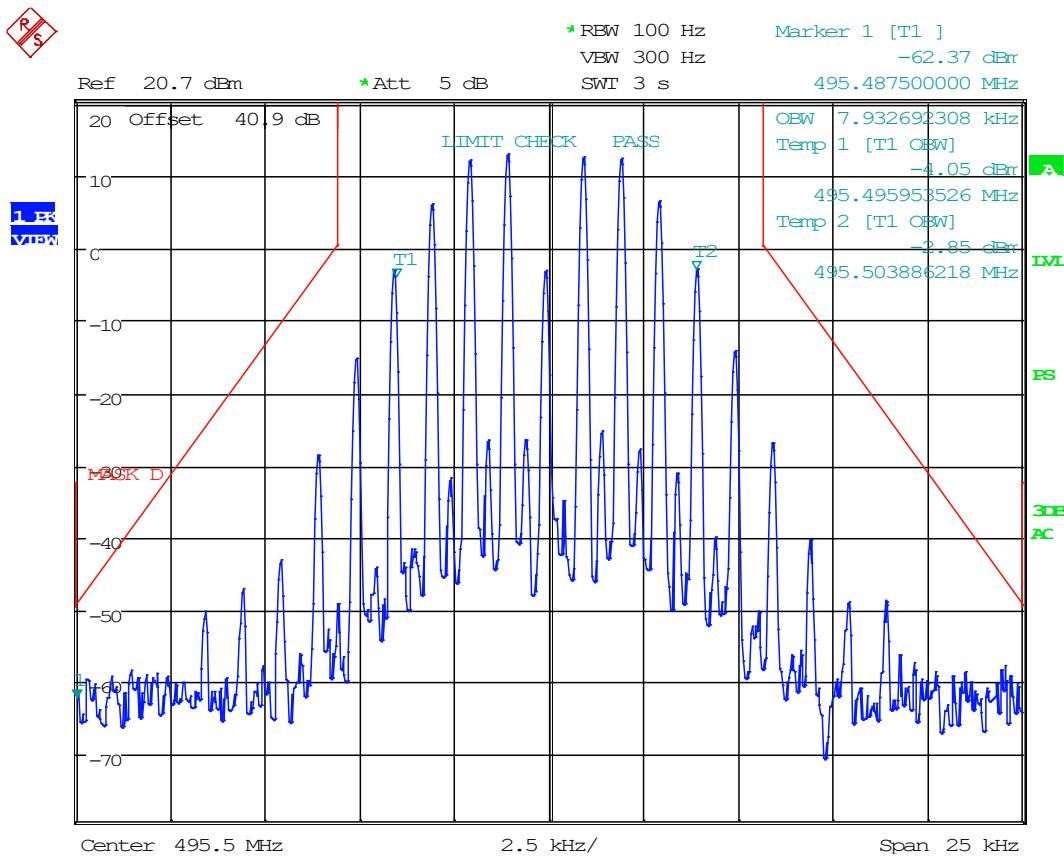
Date: 28.SEP.2021 11:57:58

8.5.2 12.5 kHz FM, 495.5 MHz, AGC



Date: 28.SEP.2021 12:00:06

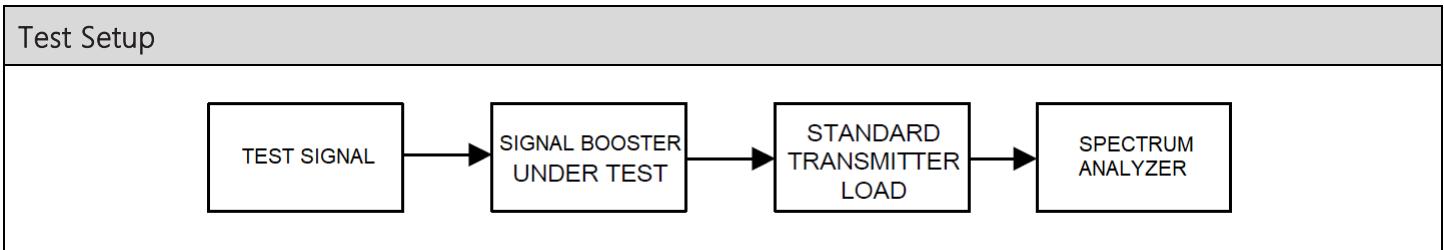
8.5.1 12.5 kHz FM, 495.5 MHz, AGC +3



Date: 28.SEP.2021 12:00:29

8.6 Noise Figure

Limits from FCC KDB 935210 D05 v01r04 Industrial Signal Boosters. Test method from "Noise Figure Measurement Accuracy: The Y-Factor Method" by Keysight Technologies.



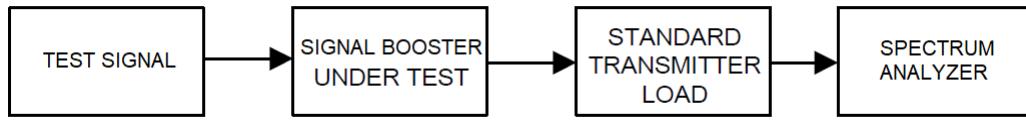
Test Results, Out-of-band Rejection and Class of Operation

Operating Band (MHz)	Link Direction	Noise Figure (dB)	Limit (dB)
505.5 MHz	Uplink	5.52	< 9 dB
510.5 MHz	Downlink	8.83	< 9 dB

8.7 Out-of-Band/Out-of-Block Emissions (Intermodulation Products)

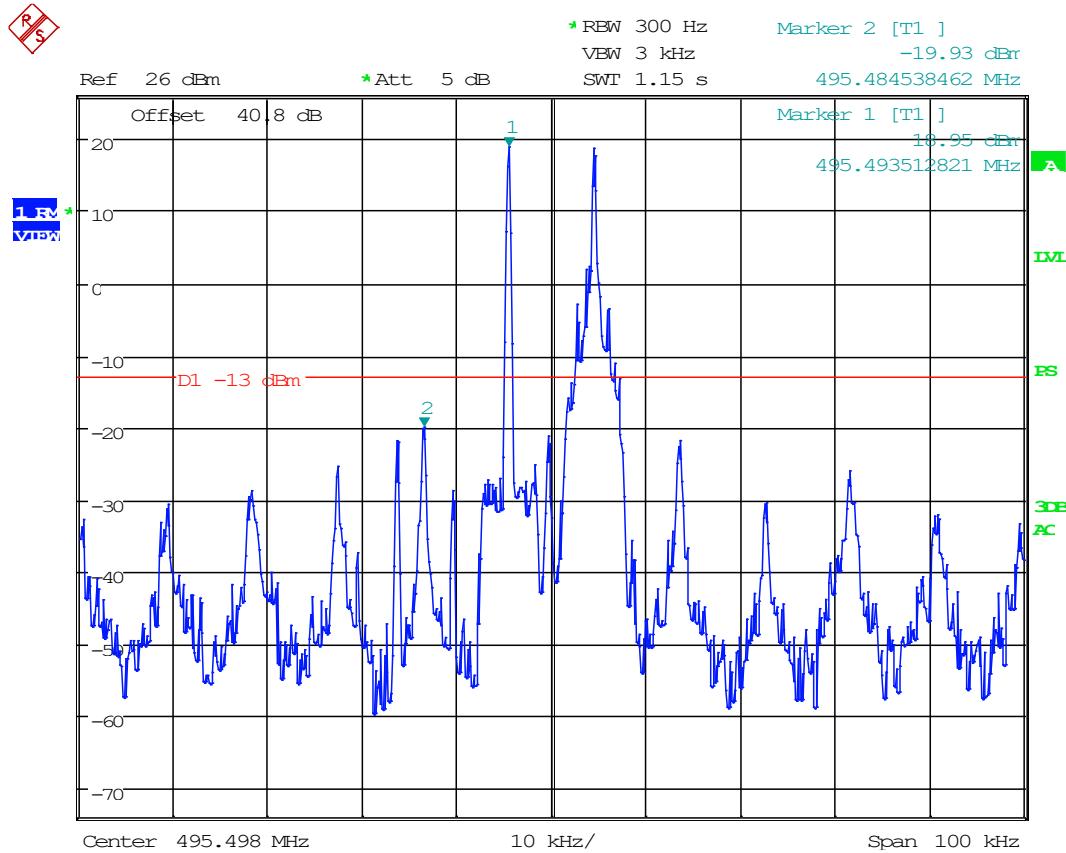
Limits from FCC Parts 2.1051, 90.210 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Test Setup



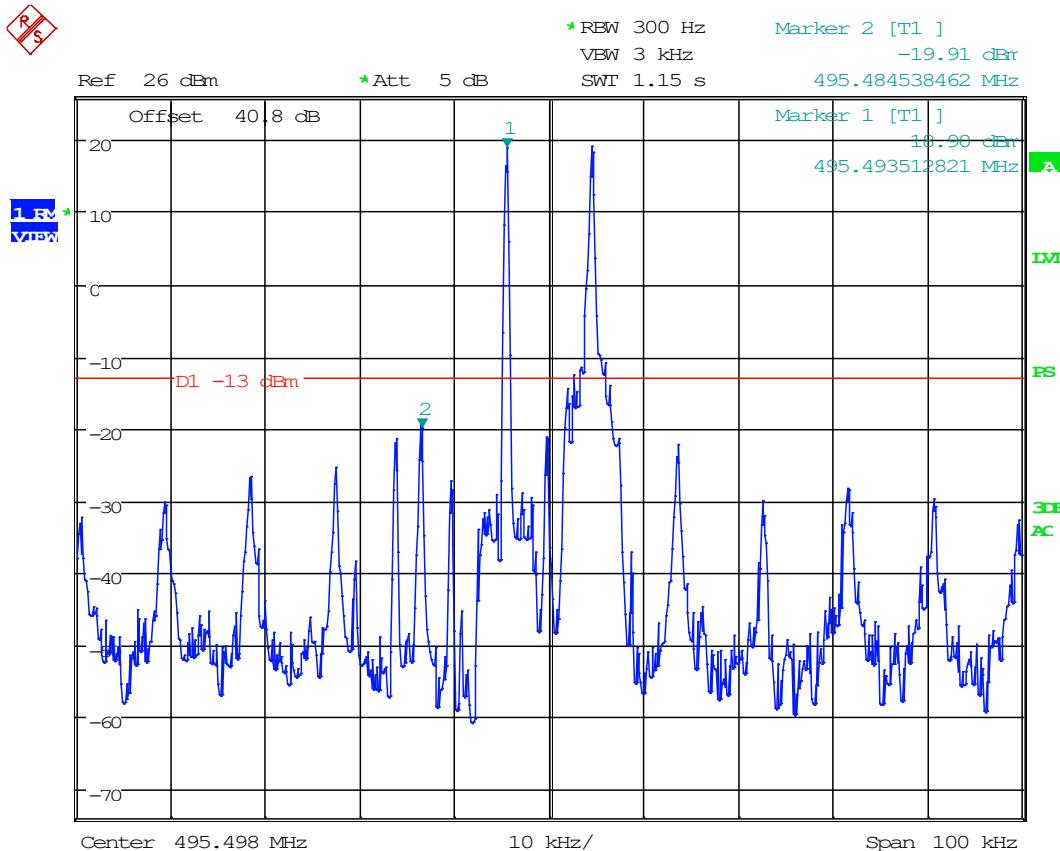
Intermodulation Products Spectrum Plots, VHF Band

8.7.1 12.5 kHz Signal, Uplink, AGC



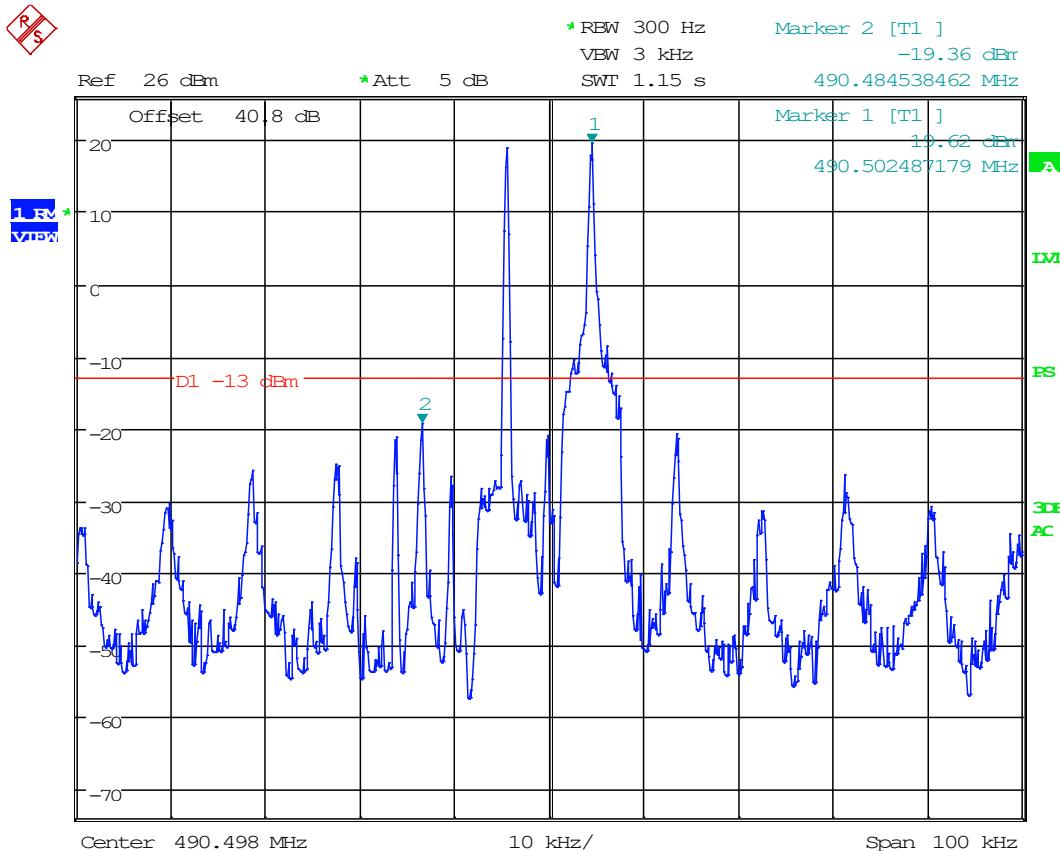
Date: 28.SEP.2021 11:36:37

8.7.2 12.5 kHz Signal, Uplink, AGC +3dB



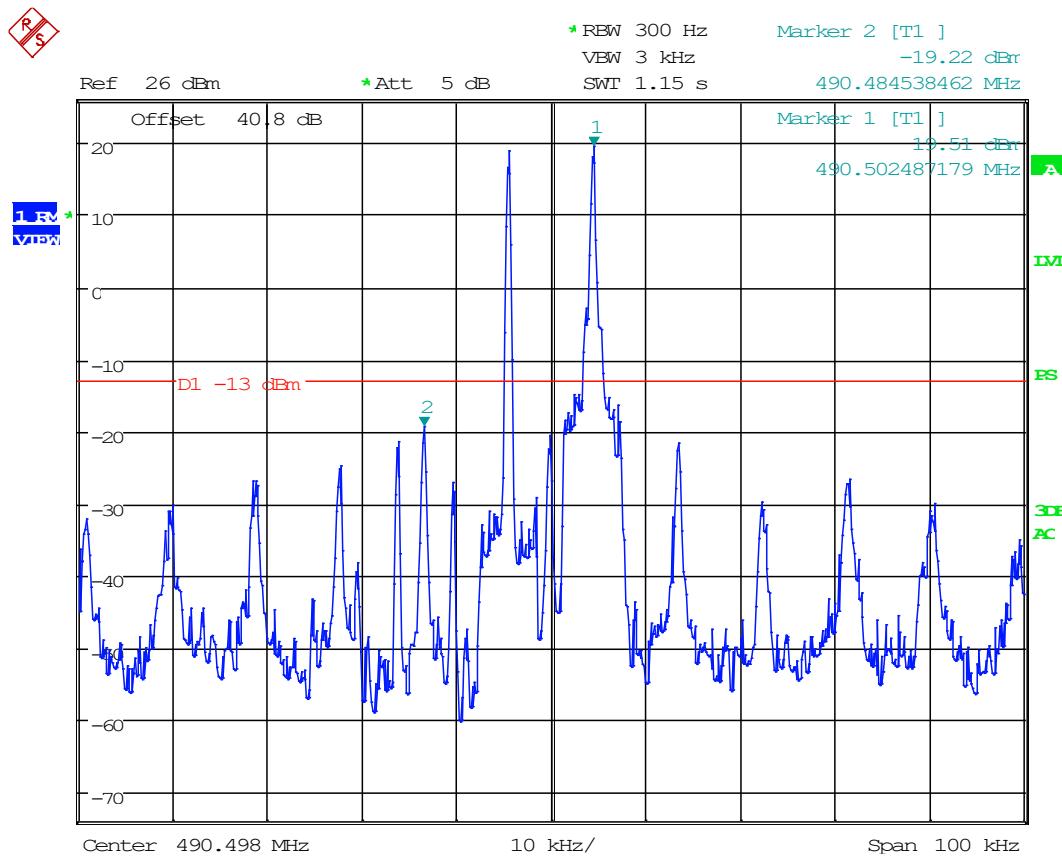
Date: 28.SEP.2021 11:37:54

8.7.3 12.5 kHz Signal, Downlink, AGC



Date: 28.SEP.2021 11:42:21

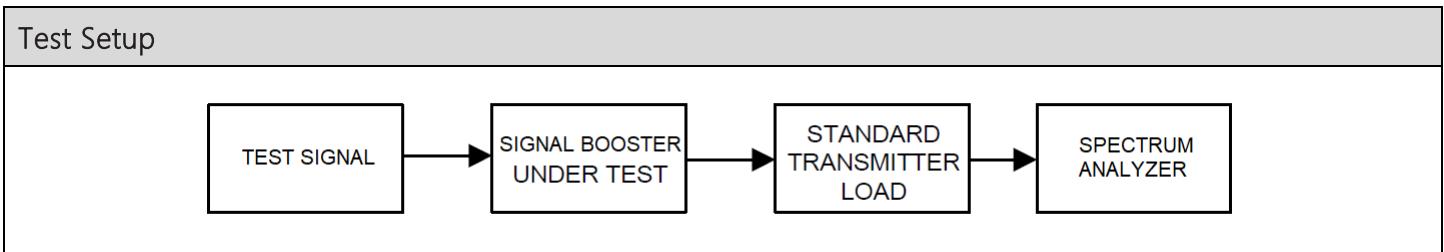
8.7.4 12.5 kHz Signal, Downlink, AGC +3dB



Date: 28.SEP.2021 11:40:14

8.8 Emission Mask, Out-of-Band

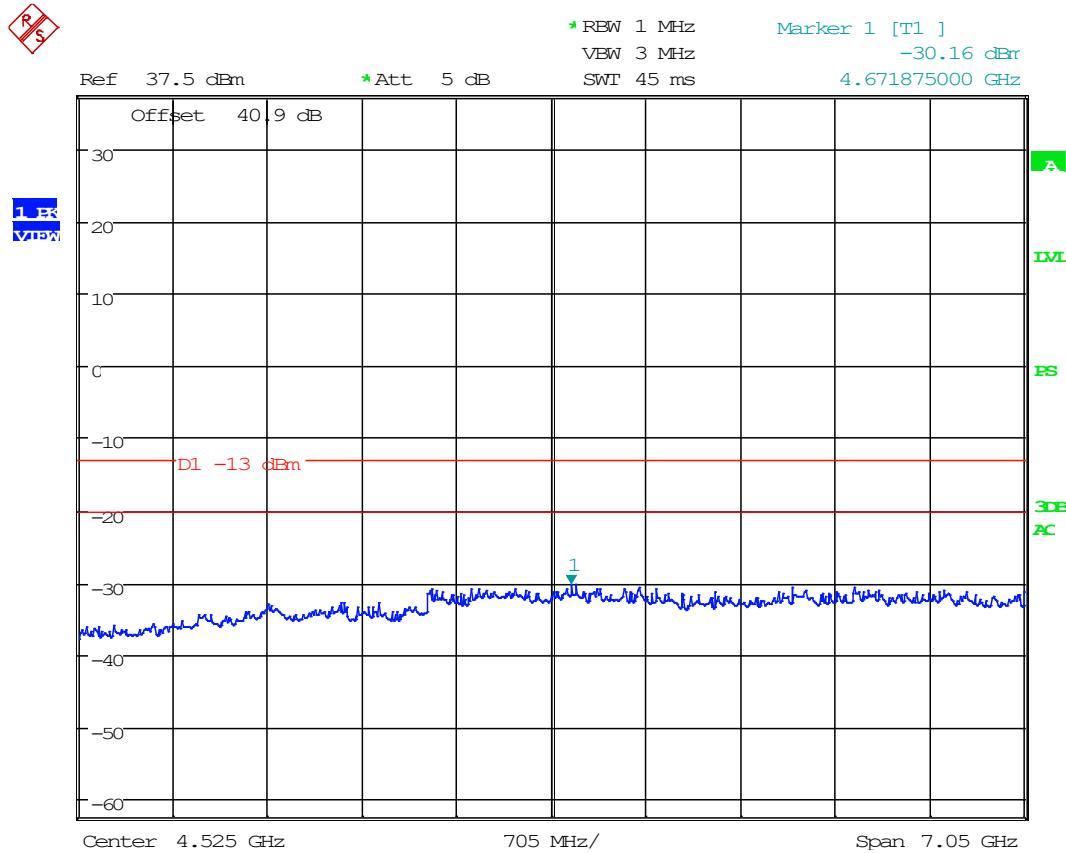
Limits from FCC Parts 2.1051, 90.210 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.



Note: Testing was done simultaneously on all combinations of Uplinks and Downlinks to address co-location of signals.

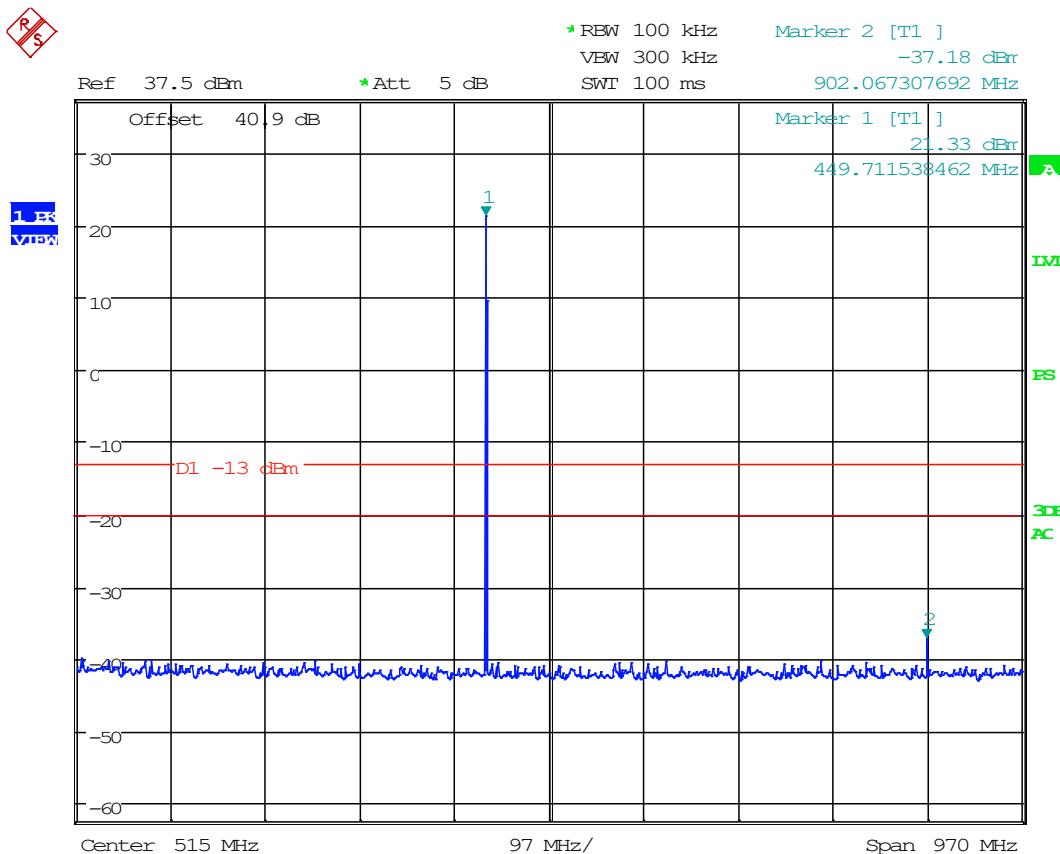
Conducted Emissions Spectrum Plots

8.8.1 Test Data, Above 1 GHz, 450.5 MHz



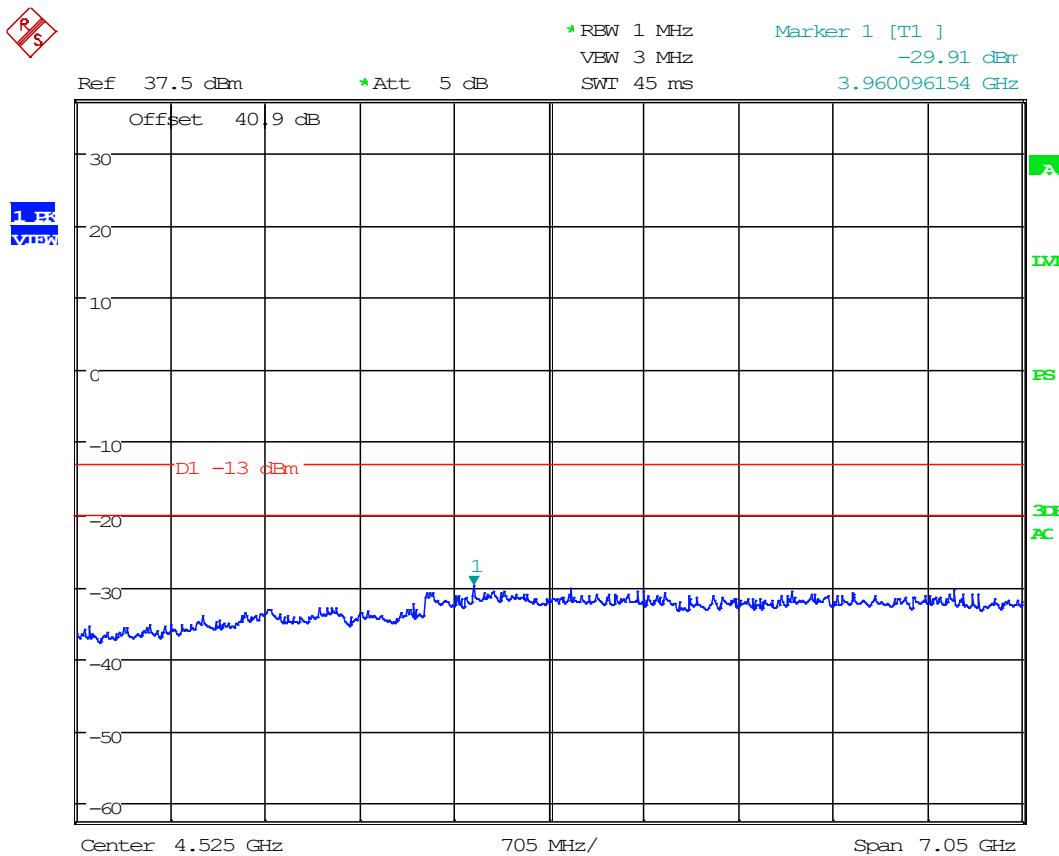
Date: 28.SEP.2021 10:01:02

8.8.1 Test Data, Below 1 GHz, 450.5 MHz



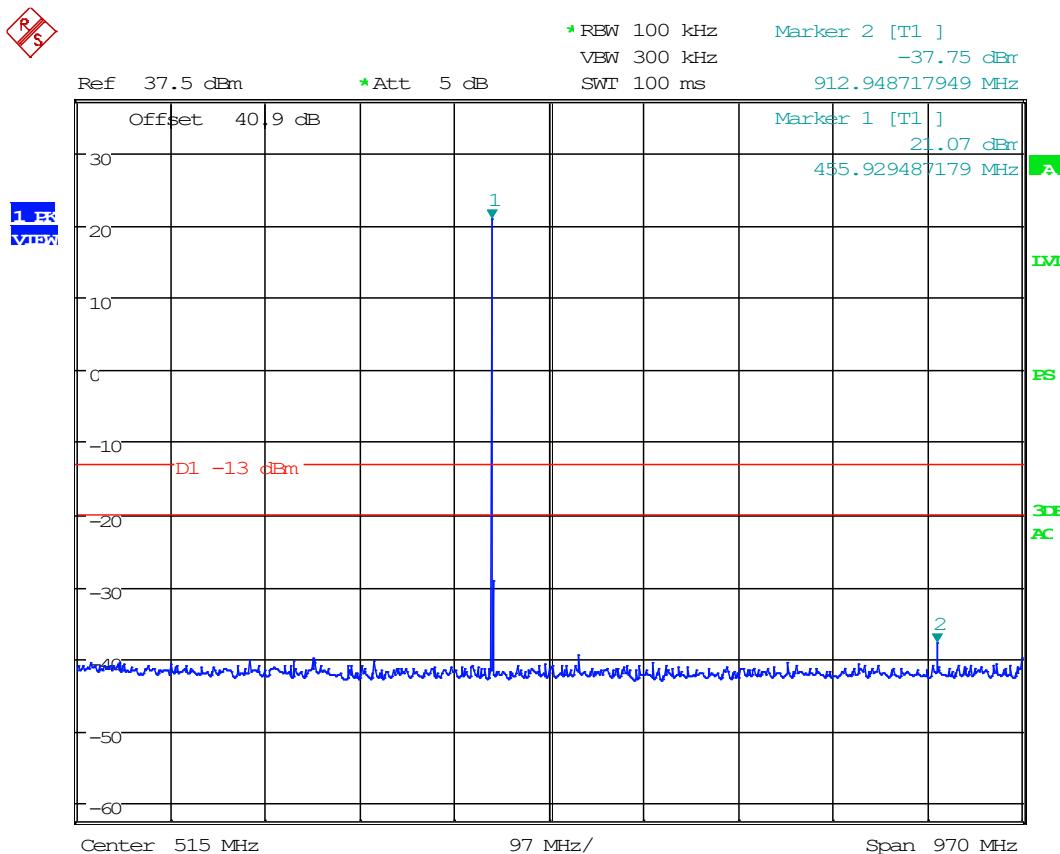
Date: 28.SEP.2021 09:44:32

8.8.1 Test Data, Above 1 GHz, 456.5 MHz



Date: 28.SEP.2021 09:57:49

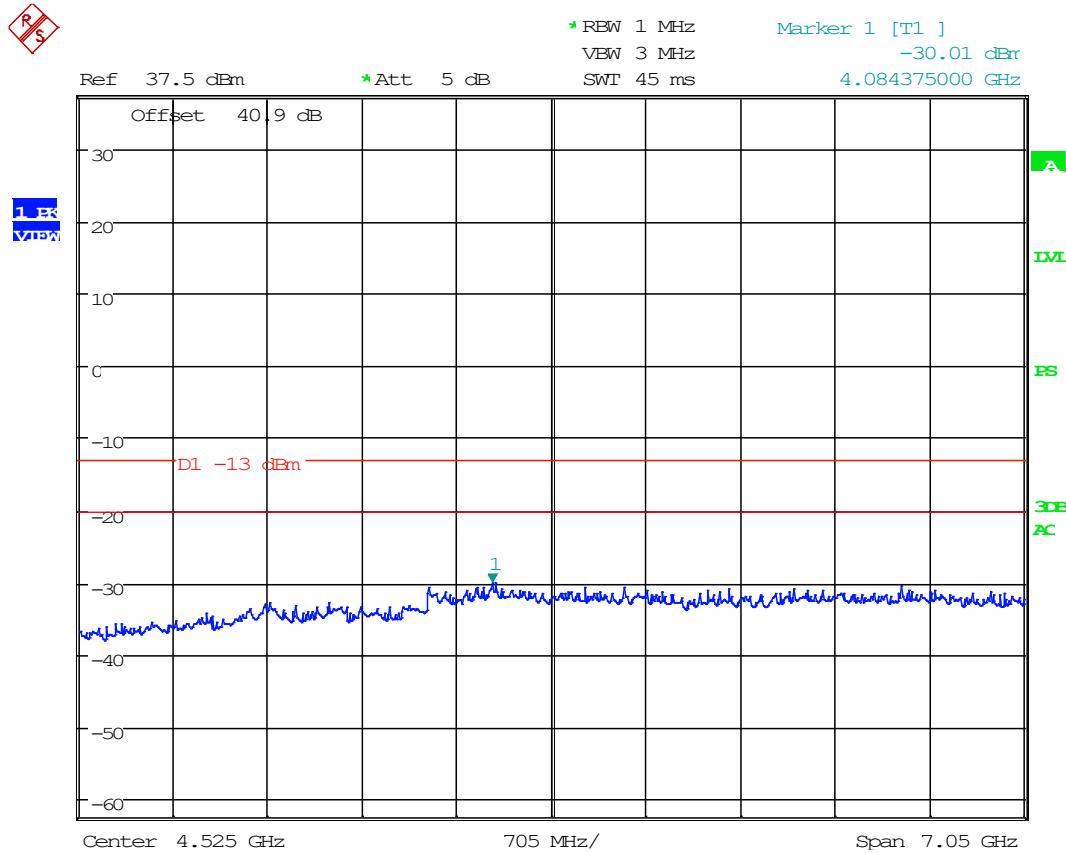
8.8.1 Test Data, Below 1 GHz, 456.5 MHz



Date: 28.SEP.2021 09:50:25

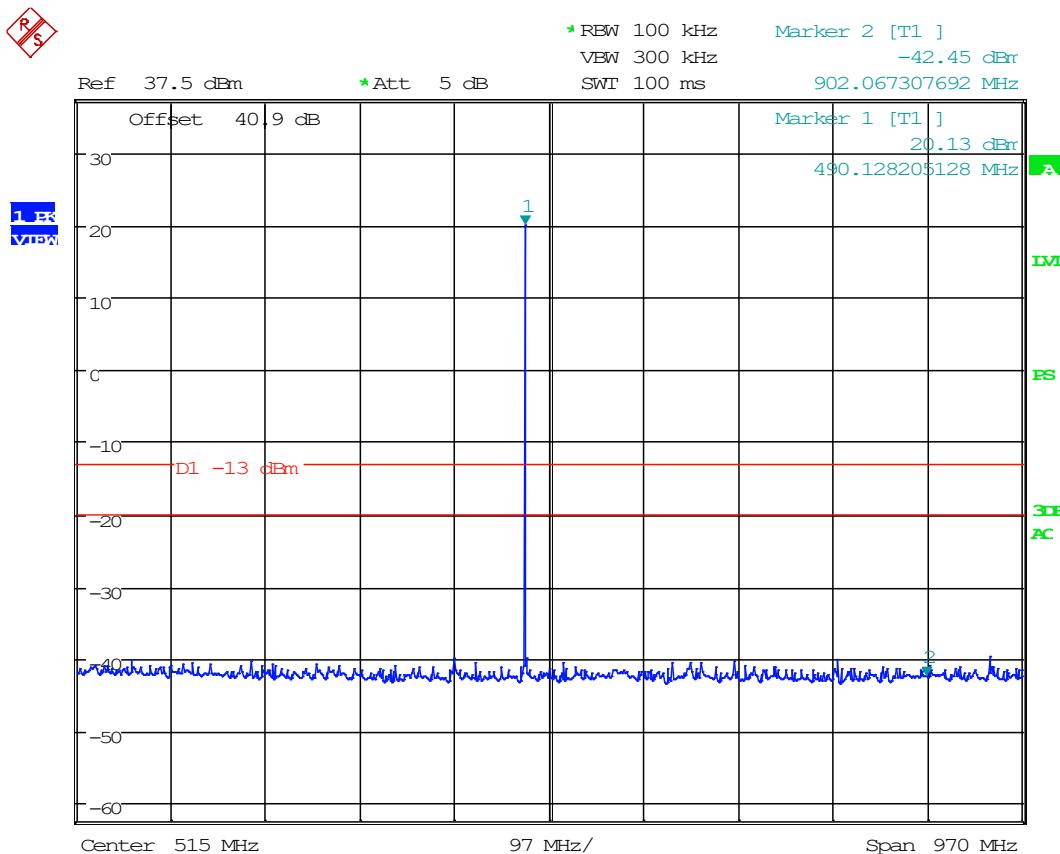
Conducted Emissions Spectrum Plots, UHF Band

8.8.1 Test Data, Above 1 GHz, 490.5 MHz



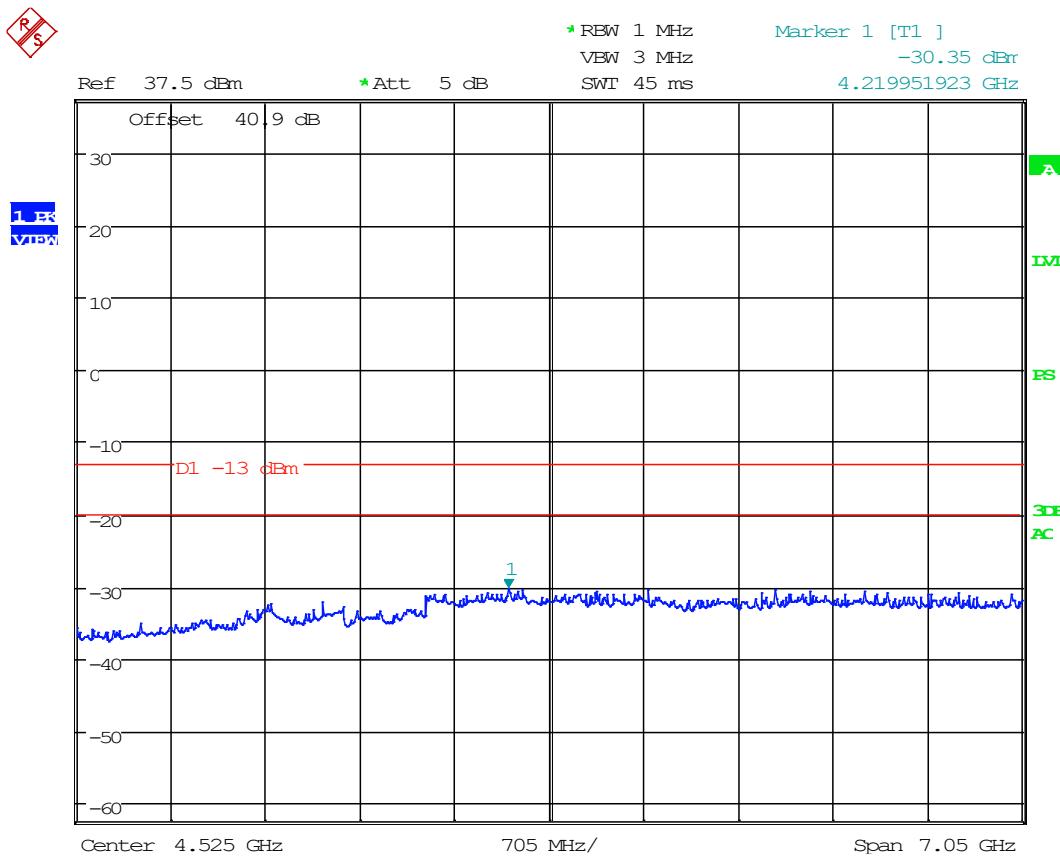
Date: 28.SEP.2021 10:00:02

8.8.1 Test Data, Below 1 GHz, 490.5 MHz



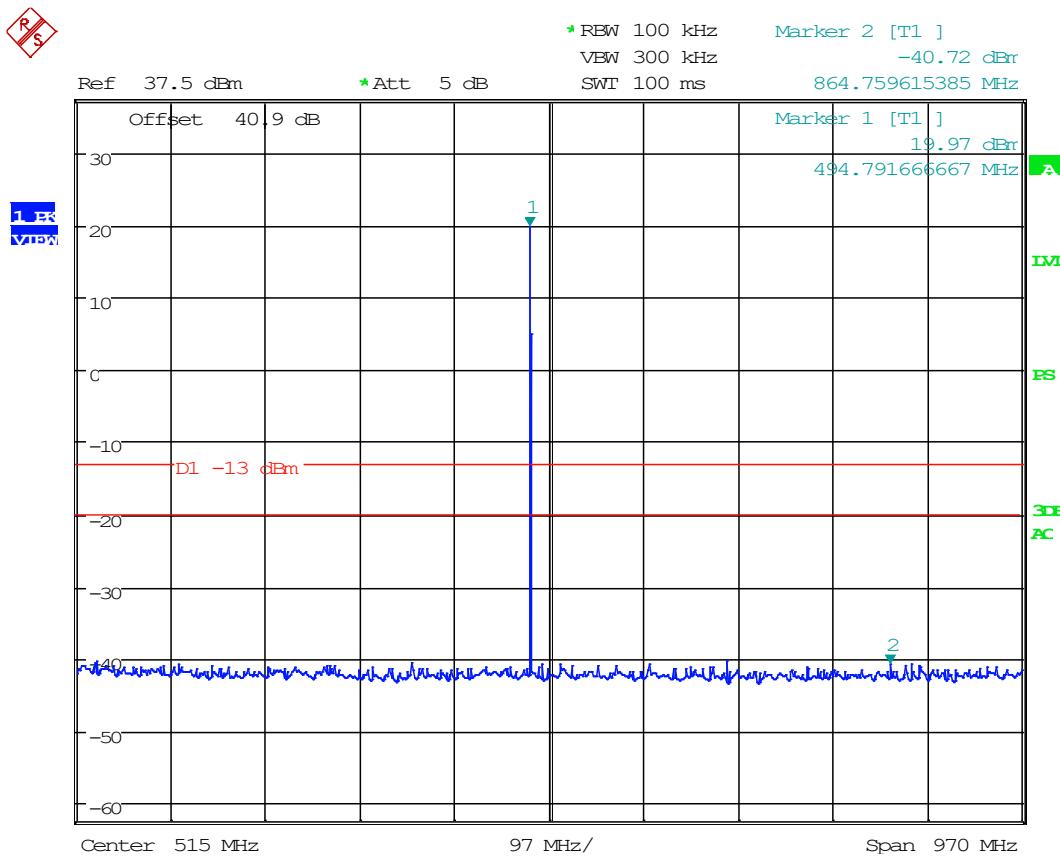
Date: 28.SEP.2021 09:45:56

8.8.1 Test Data, Above 1 GHz, 495.5 MHz



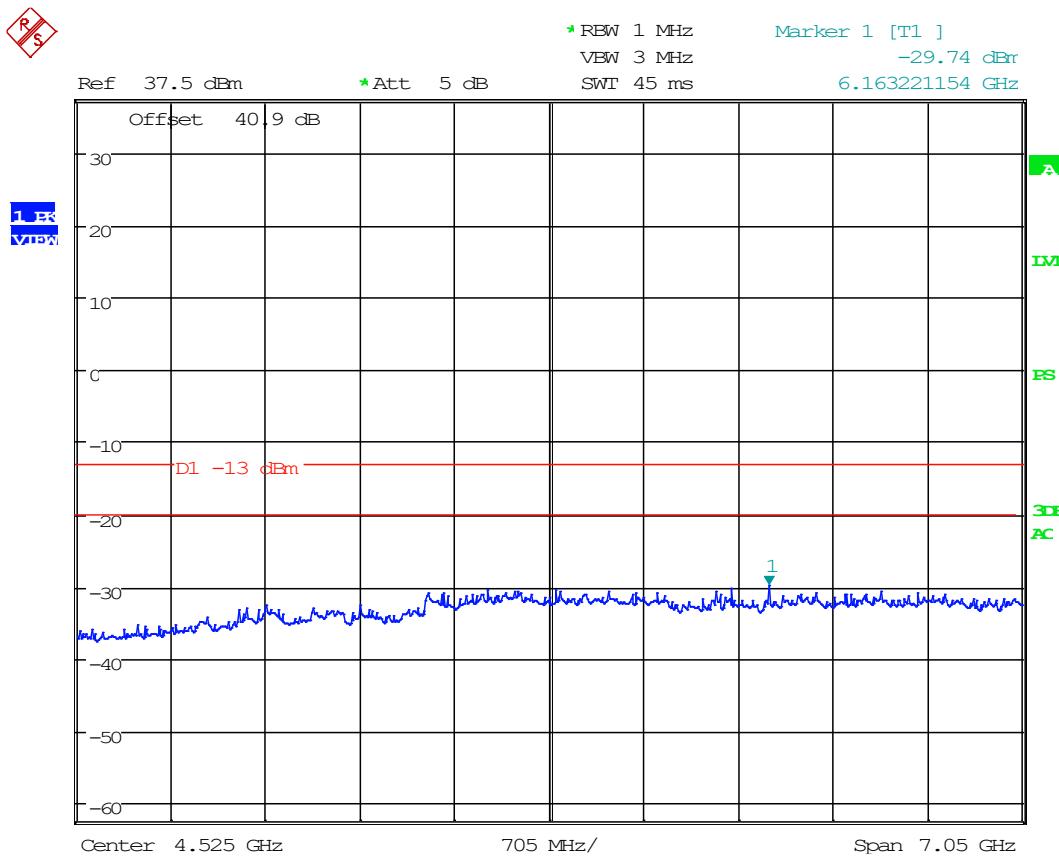
Date: 28.SEP.2021 09:56:39

8.8.1 Test Data, Below 1 GHz, 495.5 MHz



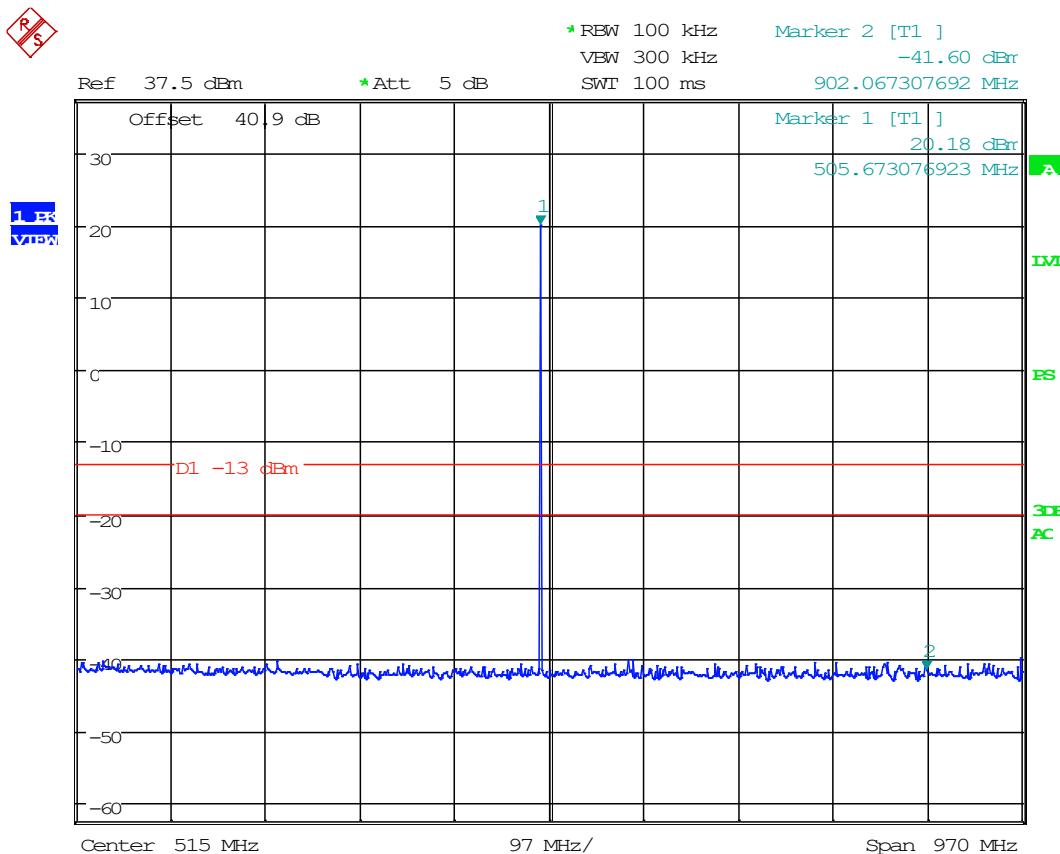
Date: 28.SEP.2021 09:51:34

8.8.1 Test Data, Above 1 GHz, 505.5 MHz



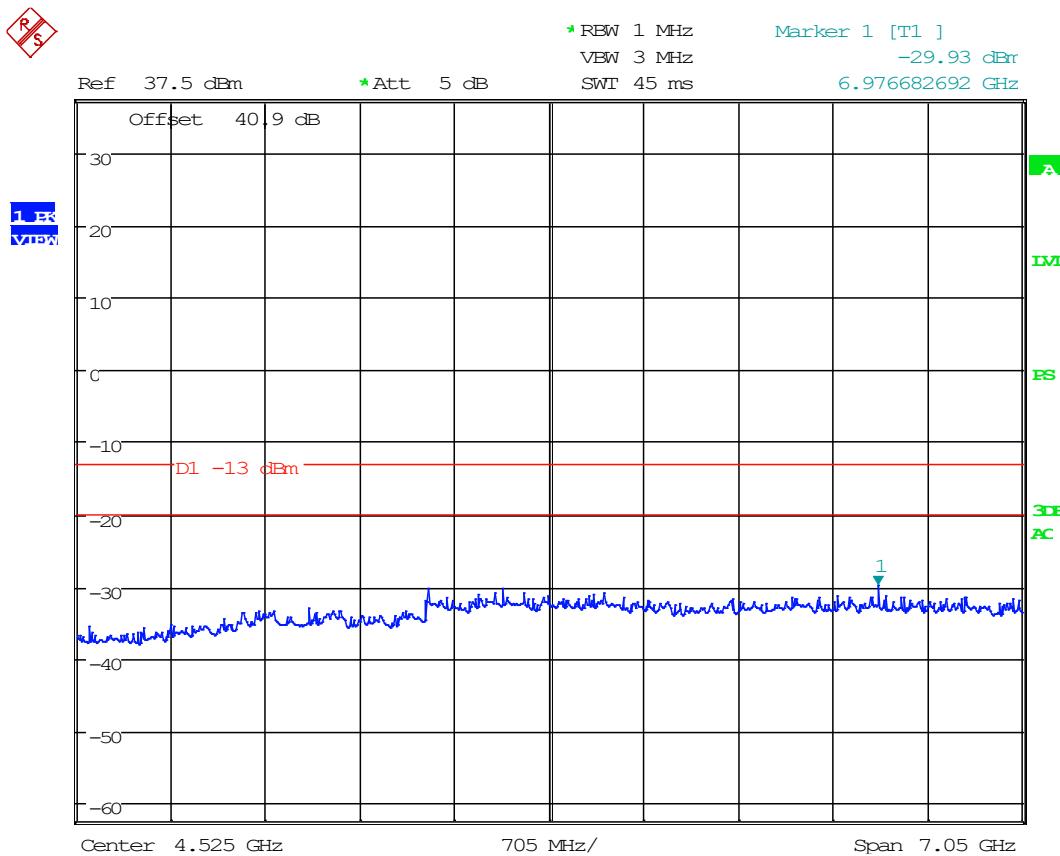
Date: 28.SEP.2021 09:59:00

8.8.1 Test Data, Below 1 GHz, 505.5 MHz



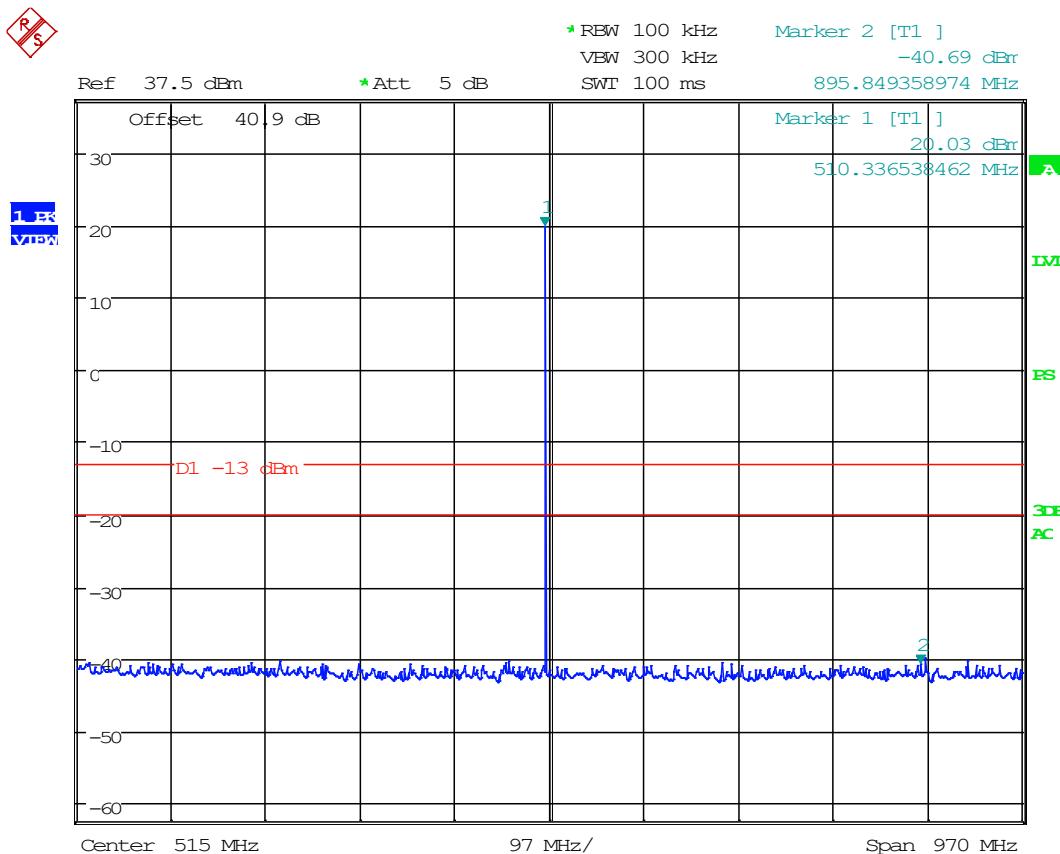
Date: 28.SEP.2021 09:48:44

8.8.1 Test Data, Above 1 GHz, 510.5 MHz



Date: 28.SEP.2021 09:55:26

8.8.1 Test Data, Below 1 GHz, 510.5 MHz

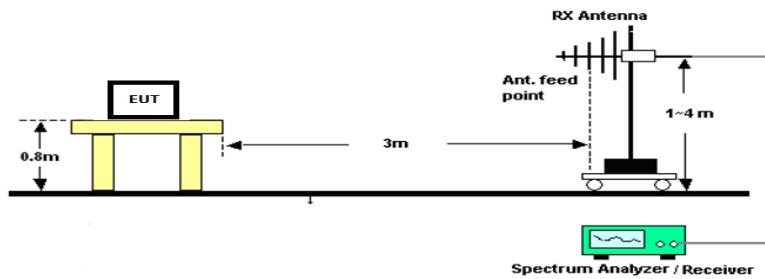


Date: 28.SEP.2021 09:53:09

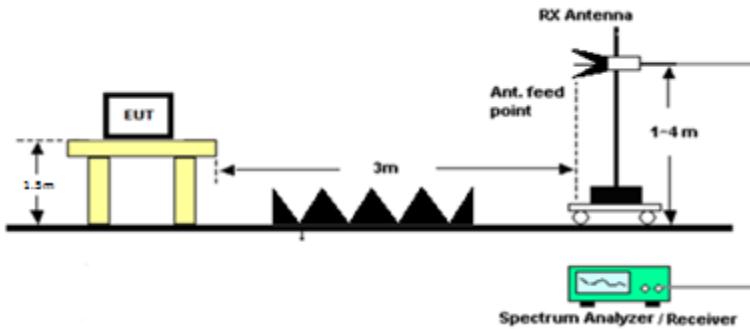
8.9 Spurious Radiated Emissions

Limits from FCC Parts 2.1053, 90.210 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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Radiated Emissions, Tabular Data, VHF Band

8.9.1 Test Data, UHF Downlink, 490.5 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 (dB μ V/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
490.50	981.00	PK	13.07	H	3.70	22.56	3.00	39.33	-58.05	-20.00	38.05
490.50	981.00	PK	17.23	V	3.70	22.56	3.00	43.49	-53.89	-20.00	33.89
490.50	1471.50	PK	12.37	H	4.42	27.95	3.00	44.73	-52.65	-20.00	32.65
490.50	1471.50	PK	11.72	V	4.42	27.95	3.00	44.08	-53.30	-20.00	33.30
490.50	1962.00	PK	11.77	H	5.14	31.31	3.00	48.22	-49.16	-20.00	29.16
490.50	1962.00	PK	11.86	V	5.14	31.31	3.00	48.31	-49.07	-20.00	29.07
490.50	2452.50	PK	13.13	H	5.61	31.86	3.00	50.60	-46.77	-20.00	26.77
490.50	2452.50	PK	12.35	V	5.61	31.86	3.00	49.82	-47.55	-20.00	27.55
490.50	2943.00	PK	12.82	H	6.29	32.32	3.00	51.42	-45.95	-20.00	25.95
490.50	2943.00	PK	11.89	V	6.29	32.32	3.00	50.49	-46.88	-20.00	26.88
490.50	3433.50	PK	13.08	H	6.87	32.61	3.00	52.56	-44.82	-20.00	24.82
490.50	3433.50	PK	13.07	V	6.87	32.61	3.00	52.55	-44.83	-20.00	24.83
490.50	3924.00	PK	10.86	H	7.15	33.30	3.00	51.31	-46.07	-20.00	26.07
490.50	3924.00	PK	11.62	V	7.15	33.30	3.00	52.07	-45.31	-20.00	25.31
490.50	4414.50	PK	11.76	H	7.29	33.70	3.00	52.75	-44.62	-20.00	24.62
490.50	4414.50	PK	12.93	V	7.29	33.70	3.00	53.92	-43.45	-20.00	23.45
490.50	4905.00	PK	11.88	H	7.53	33.92	3.00	53.33	-44.05	-20.00	24.05
490.50	4905.00	PK	11.81	V	7.53	33.92	3.00	53.26	-44.12	-20.00	24.12



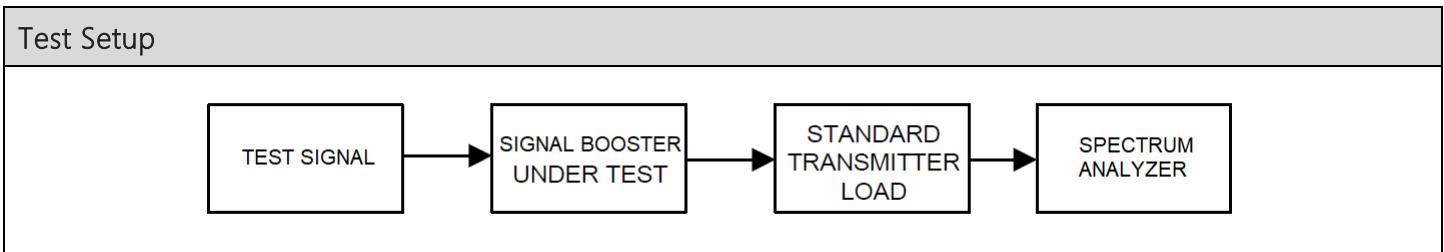
8.9.2 Test Data, UHF Uplink, 495.5 MHz

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)
495.50	991.00	PK	14.61	H	3.74	23.28	3.00	41.63	-55.75	-20.00	35.75
495.50	991.00	PK	14.82	V	3.74	23.28	3.00	41.84	-55.54	-20.00	35.54
495.50	1486.50	PK	14.04	H	4.46	27.85	3.00	46.35	-51.03	-20.00	31.03
495.50	1486.50	PK	11.78	V	4.46	27.85	3.00	44.09	-53.29	-20.00	33.29
495.50	1982.00	PK	14.25	H	5.16	31.31	3.00	50.72	-46.66	-20.00	26.66
495.50	1982.00	PK	12.23	V	5.16	31.31	3.00	48.70	-48.68	-20.00	28.68
495.50	2477.50	PK	12.20	H	5.62	32.08	3.00	49.90	-47.48	-20.00	27.48
495.50	2477.50	PK	12.68	V	5.62	32.08	3.00	50.38	-47.00	-20.00	27.00
495.50	2973.00	PK	12.06	H	6.31	32.42	3.00	50.79	-46.59	-20.00	26.59
495.50	2973.00	PK	12.53	V	6.31	32.42	3.00	51.26	-46.12	-20.00	26.12
495.50	3468.50	PK	14.39	H	6.89	32.63	3.00	53.92	-43.46	-20.00	23.46
495.50	3468.50	PK	12.41	V	6.89	32.63	3.00	51.94	-45.44	-20.00	25.44
495.50	3964.00	PK	12.11	H	7.26	33.38	3.00	52.75	-44.62	-20.00	24.62
495.50	3964.00	PK	10.99	V	7.26	33.38	3.00	51.63	-45.74	-20.00	25.74
495.50	4459.50	PK	10.33	H	7.29	33.81	3.00	51.43	-45.95	-20.00	25.95
495.50	4459.50	PK	10.72	V	7.29	33.81	3.00	51.82	-45.56	-20.00	25.56
495.50	4955.00	PK	12.40	H	7.74	33.95	3.00	54.09	-43.29	-20.00	23.29
495.50	4955.00	PK	12.14	V	7.74	33.95	3.00	53.83	-43.55	-20.00	23.55

Radiated Emissions, Tabular Data, UHF Band

8.10 Modulation Characteristics

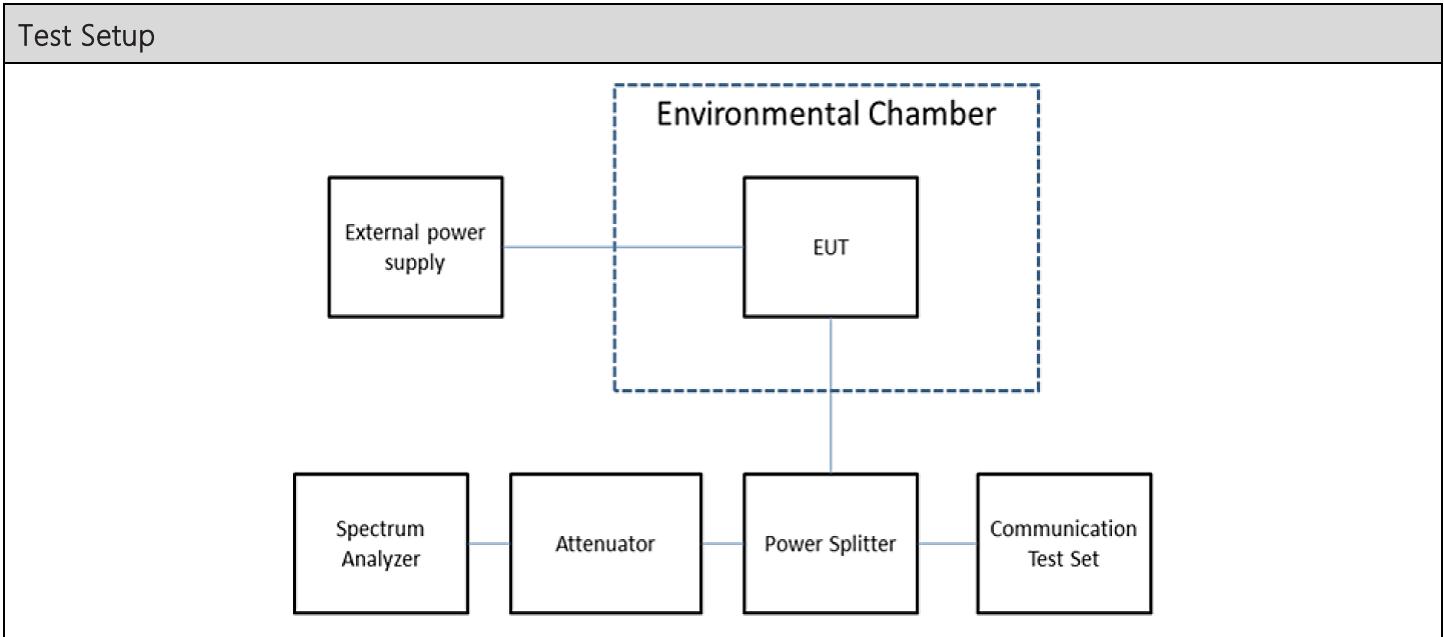
Limits from FCC Parts 2.1047, and test procedure from ANSI C63.26-2015.



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

8.11 Frequency Stability

Limits from FCC Parts 2.1055, 90.213 (a); and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.



Test Results, Mode 1

Tuned Frequency (MHz)	Max Deviation (kHz)	Limit (ppm)
n/a	n/a	n/a

N/A. The EUT does not alter the input signal in any way.



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8.12 Transient Frequency Behavior

Limits from FCC Part 90.214; and test procedure from ANSI C63.26-2015.

N/A. The EUT does not "key-on" or "key off", and instead transmits indefinitely.



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8.13 Adjacent channel power limits

Limits from FCC Part 90.221, and test procedure from ANSI C63.26-2015.

N/A. Device does not operate in a band requiring ACP measurement.



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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_3889-21_FCC_PT90_Booster Class A_	1	Initial release	9/29/2021
	2	Updated page 9 and 21	11/2/2021
	3	Updated Page 9	11/11/2021



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END OF TEST REPORT
