

Radio Testing of the

ICOM Inc.
VHF Marine Transceiver IC-F3530DEX
In accordance with

FCC CFR Title 47 Part 2, 22, 74, 80 and 90

ICOM Inc.



America

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Date: October 2026

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RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Authorized Signatory	Omar Castillo	October 12, 2026	

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

EXECUTIVE SUMMARY

The EUT was tested in accordance with FCC CFR Title 47 Parts 2, 22, 74, 80, and 90 and demonstrated compliance with the applicable requirements



A2LA Cert. No. 2955.13

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REPORT ON	Radio Testing of the ICOM Inc. Model: IC-F3530DEX
TEST REPORT NUMBER	721023274
TEST REPORT DATE	October 2026
PREPARED FOR	ICOM Inc.
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APPROVED BY	 _____ Name Authorized Signatory Title: Senior EMC / Wireless Test Engineer
DATED	_____ October 12, 2026



Revision History

721023274 ICOM Inc. Model:IC-F3530DEX					
DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
09/28/2026	—	Initial Release			Omar Castillo
10/12/2026	Initial Release	Version 2.0	Updated Mask B and E plots	Page 32 to 37	Omar Castillo
			Provide t_3 data for reference	Page 59 to 60	



CONTENTS

1	REPORT SUMMARY	5
1.2	Brief Summary Of Results	7
1.3	Product Information	8
1.4	EUT Test Configuration	9
1.5	Deviations From The Standard	10
1.6	Modification Record	10
1.7	Test Methodology	10
1.8	Test Facility Location	10
1.9	Test Facility Registration.....	10
2	TEST DETAILS	12
2.1	RF Power Output.....	13
2.2	Audio Frequency Response	17
2.3	Modulation Characteristics – Modulation Limiting	22
2.4	Occupied Bandwidth And Emissions Limitations	24
2.5	Spurious Emissions At The Antenna Terminal.....	38
2.6	Field Strength Of Spurious Radiation	48
2.7	Frequency Stability	54
2.8	Transient Frequency Behavior	56
2.9	Supression Of Interference Aboard Ships	61
3	TEST EQUIPMENT USED.....	64
3.1	Test Equipment Used	65
3.2	Measurement Uncertainty.....	67
4	DIAGRAM OF TEST SETUP	69
4.1	Test Setup Diagram.....	70
5	ACCREDITATION< DISCLAIMERS AND COPYRIGHT	73
5.1	Accreditation, Disclaimers And Copyright.....	74



SECTION 1

1 REPORT SUMMARY

Radio Testing of the
ICOM Inc.
IC-F3530DEX



1.1 INTRODUCTION

The information contained in this report is intended to show verification of the ICOM Inc. Model: IC-F3530DEX to the requirements of FCC CFR Title 47 Part 2, 22, 74, 80 and 90.

Operating Mode	Emission Designator	Frequency (MHz)
Narrow	11K0F3E / 8K50F3E	136 to 174 MHz
Wide	16K0F3E*	136 to 174 MHz
Digital Very Narrow	4K00F7W/4K00F1E/4K00F1D	136 to 174 MHz

*Not available for Part 90 frequency user. The 25kHz mode is disabled by radio firmware at the factory.

Objective	To perform Radio testing to determine the Equipment Under Test's (EUT's) compliance with the test specification, for the series of tests carried out.
Manufacturer	ICOM Inc.
EUT	VHF Marine Transceiver
HVIN	N/A
Software version	N/A
Model Number(s)	IC-F3530DEX
Serial Number(s)	21000306
Number of Samples Tested	1
Test Specification/Issue/Date	- FCC CFR Title 47 Part 2 - FCC CFR Title 47 Part 22, 74, 80 and 90
Start of Test	August 26, 2026
Finish of Test	October 12, 2026
Name of Engineer(s)	Ferdinand S. Custodio
Related Document(s)	- ANSI C63.26, 2015 Edition, 2015- American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services - ANSI/TIA-603-F (2024) Land Mobile FM or PM Communications Equipment Measurement and Performance Standard. - KDB Publication 971168 v03r01 April 09, 2018



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC CFR Title 47 Part 2, 22, 74, 80 and 90 are shown below:

Section	Spec Clause (FCC CFR Title 47)					Test Description	Result
	Part 2	Part 22	Part 74	Part 80	Part 90		
2.1	2.1046	22.565	74.461	80.215	90.205	RF Power Output	Compliant
2.2	2.1047(a)			80.213 (e)	90.242 (b)(8)	Audio Frequency Response	Compliant
2.3	2.1047(b)		74.463	80.213 (a)(2),(b) and (d)	90.210	Modulation Characteristics Modulation Limiting	Compliant
2.4	2.1049 (c)(1)		74.462 (c)	80.211 (f)	90.209 and 90.210	Occupied Bandwidth and Emission Limitations	Compliant
2.5	2.1051			80.211(f)(3)	90.210(e)	Spurious Emissions at Antenna Terminal	Compliant
2.6	2.1053	22.359 (a)		80.211(f)(3)	90.210	Field Strength of Spurious Emissions	Compliant
2.7	2.1055	22.355	74.464	80.209	90.219	Frequency Stability	Compliant
2.8	-				90.214	Transient Frequency Behavior	Compliant
2.9	-	-		80.217		Suppression of Interference aboard ships	Compliant



1.3 PRODUCT INFORMATION

1.3.1 EUT Technical Description

The Equipment Under Test (EUT) is a VHF marine transceiver. It is a two-way radio communication system designed to communicate with other vessels and coast stations.

A full description and detailed product specifications are available from the manufacturer.

1.3.2 EUT General Description

EUT Description	VHF Marine Transceiver
Model Number(s)	IC-F3530DEX
Rated Power	2.0W / 0.6W
Input Voltage	Battery (BP-320EX)
Mode Verified	VHF (Channel 01 (136.025MHz) -18 (173.975MHz))
Primary Unit (EUT)	☐ Production ☒ Pre-Production ☐ Engineering
Manufacturer Declared Voltage	3.6VDC nominal
Manufacturer Declared Temperature Range	-20°C to 50°C
Maximum Permissible Frequency Deviation	±5.0kHz (Wide) and ±2.5kHz (Narrow)
Antenna Model	FA-S84VG, FA-S85VG, FA-S86VG, FA-S87VGS and FA-S88VGS

1.3.3 Maximum Conducted Output Power

Operating Mode	Emission Designator	Frequency (MHz)	Power (dBm)	Power (W)
Wide	16K0F3E	136.025	33.0	2.00
Narrow	11K0F3E	136.025	32.9	1.95
Digital	4K00F7W	136.025	33.0	2.00

1.4 EUT TEST CONFIGURATION

1.4.1 Test Configuration Description

Test Configuration	Description
Default	The EUT was pre-programmed with 18 channels spanning all three operating modes: Narrow, Wide, and Digital Very Narrow. Each mode was evaluated in both High Power and Low Power configurations. A modulation jig was used to inject the required audio-frequency signal into the EUT during testing.

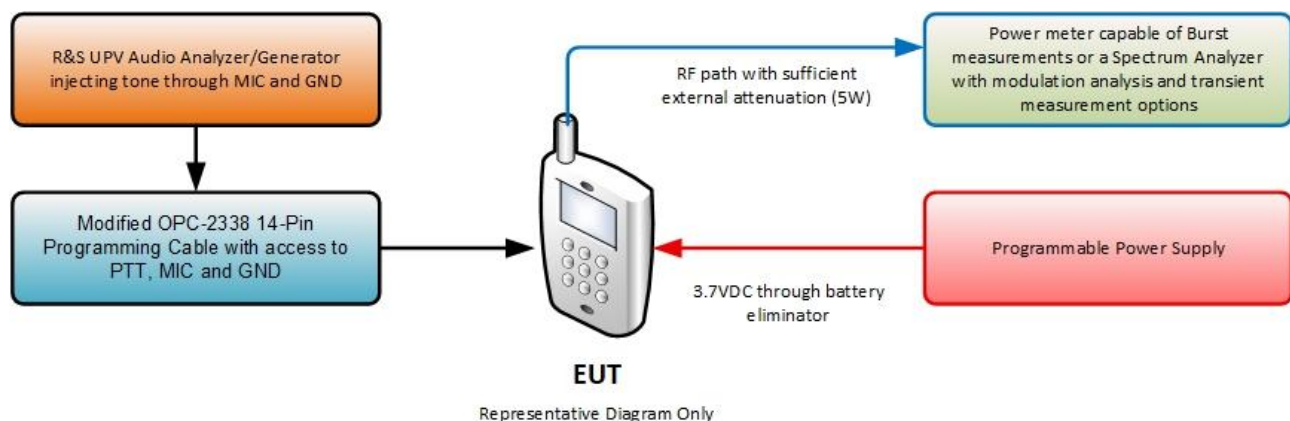
1.4.2 EUT Exercise Software

None. The EUT was verified as received.

1.4.3 Support Equipment and I/O cables

Manufacturer	Equipment/Cable	Description
Icom	Modulation Jig	Modified OPC-2338 14-Pin Programming Cable with access to PTT, MIC and GND

1.4.4 Simplified Test Configuration Diagram





1.5 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.6 MODIFICATION RECORD

Description of Modification	Modification Fitted By	Date Modification Fitted
Serial Number: 21000306		
None	—	—

The table above details modifications made to the EUT during the test program. The modifications incorporated during each test (if relevant) are recorded on the appropriate test pages.

1.7 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.26, 2015 Edition, 2015-American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

For conducted and radiated emissions, the equipment under test (EUT) was configured to measure its highest possible emission level. This level was based on the maximized cable configuration from exploratory testing per ANSI C63.26, 2015. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.8 TEST FACILITY LOCATION

TÜV SÜD America Inc. (Mira Mesa)

10040 Mesa Rim Road, San Diego, CA 92121-2912 (32.901268,-117.177681). Phone: 858 678 1400
FAX: 858 546 0364

1.9 TEST FACILITY REGISTRATION

1.9.1 FCC – Designation No.: US1146

TÜV SÜD America Inc. (San Diego), is an accredited test facility with the site description report on file and has met all the requirements specified in §2.948 of the FCC rules. The acceptance letter from the FCC is maintained in our files and the Designation is US1146.

1.9.2 Innovation, Science and Economic Development Canada (IC) Registration No.: 3067A-1 & 22806-1

The 3m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego Mira Mesa) has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada for radio equipment testing with Registration No. 22806-1.



1.9.3 BSMI – Laboratory Code: SL2-IN-E-028R (US0102)

TÜV Product Service Inc. (San Diego) is a recognized EMC testing laboratory by the BSMI under the MRA (Mutual Recognition Arrangement) with the United States. Accreditation includes CNS 13438 up to 6GHz.

1.9.4 NCC (National Communications Commission - US0102)

TÜV SÜD America Inc. (San Diego) is listed as a Foreign Recognized Telecommunication Equipment Testing Laboratory and is accredited to ISO/IEC 17025 (A2LA Certificate No.2955.13) which under APEC TEL MRA Phase 1 was designated as a Conformity Assessment Body competent to perform testing of equipment subject to the Technical Regulations covered under its scope of accreditation including RTTE01, PLMN01 and PLMN08 for TTE type of testing and LP002 for Low-Power RF Device type of testing.

1.9.5 VCCI – Registration No. A-0412

TÜV SÜD America Inc. (San Diego) is a VCCI registered measurement facility which includes radiated field strength measurement, radiated field strength measurement above 1GHz, mains port interference measurement and telecommunication port interference measurement.

1.9.6 RRA – Identification No. US0102

TÜV SÜD America Inc. (San Diego) is National Radio Research Agency (RRA) recognized laboratory under Phase I of the APEC Tel MRA.

1.9.7 OFCA – U.S. Identification No. US0102

TÜV SÜD America Inc. (San Diego) is recognized by Office of the Communications Authority (OFCA) under Appendix B, Phase I of the APEC Tel MRA.



SECTION 2

2 TEST DETAILS

Radio Testing of the
ICOM Inc.
IC-F3530DEX



2.1 RF Power Output

FCC CFR Title 47 Part 2.1046
FCC CFR Title 47 Part 22.565
FCC CFR Title 47 Part 74.461
FCC CFR Title 47 Part 80.215
FCC CFR Title 47 Part 90.205

2.1.1 Standard Applicable

§2.1046(a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

2.1.2 Equipment Under Test and Modification State

Serial No: 21000306 / Test Mode Configuration

2.1.3 Date of Test/Initial of test personnel who performed the test

August 26, 2026 / FSC

2.1.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.5 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	22.9 °C
Relative Humidity	40.1 %
ATM Pressure	99.56 kPa

2.1.6 Additional Observations

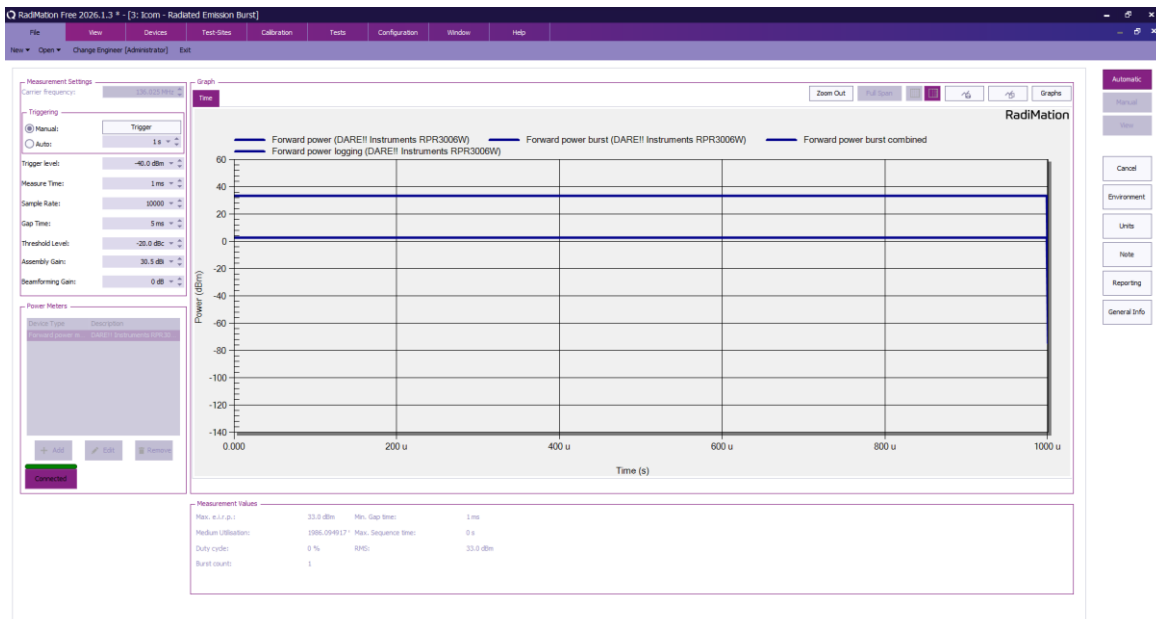
- This is a conducted test.
- Transmitter Power was measured with a Power Sensor (Burst Measurement).
- Compensation for cable loss and RF attenuator path loss was applied during the measurement.
- Test method was performed per ANSI C63.26, 2015 Edition, 2015 Section 5.2.
- Test was performed under normal environment conditions.
- Test setup Pictures will be provided as a separate exhibit.



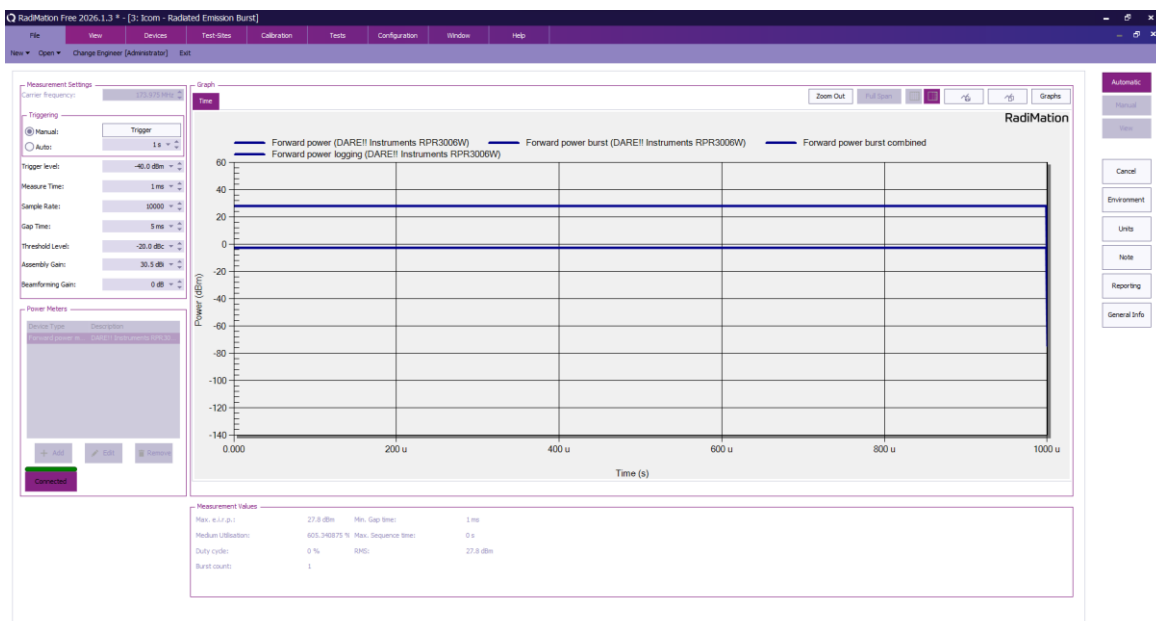
2.1.7 Test Results

Channel	Frequency (MHz)	Wide/Narrow	Carrier Spacing (kHz)	Power (dBm)	Power (Watts)
CH01	136.025	Narrow	15.0	32.9	1.95
CH02	155.025	Narrow	15.0	32.5	1.78
CH03	173.975	Narrow	15.0	32.4	1.74
CH04	136.025	Narrow	15.0	28.0	0.63
CH05	155.025	Narrow	15.0	27.8	0.60
CH06	173.975	Narrow	15.0	27.8	0.60
CH07	136.025	Wide	25.0	33.0	2.00
CH08	155.025	Wide	25.0	32.5	1.78
CH09	173.975	Wide	25.0	32.4	1.74
CH10	136.025	Wide	25.0	28.0	0.63
CH11	155.025	Wide	25.0	27.8	0.60
CH12	173.975	Wide	25.0	27.8	0.60
CH13	136.025	Digital Very Narrow	7.50	33.0	2.00
CH14	155.025	Digital Very Narrow	7.50	32.5	1.78
CH15	173.975	Digital Very Narrow	7.50	32.4	1.74
CH16	136.025	Digital Very Narrow	7.50	28.1	0.65
CH17	155.025	Digital Very Narrow	7.50	27.9	0.62
CH18	173.975	Digital Very Narrow	7.50	27.8	0.60
EUT Complies with all listed Rule Parts power requirements for the frequencies being evaluated					

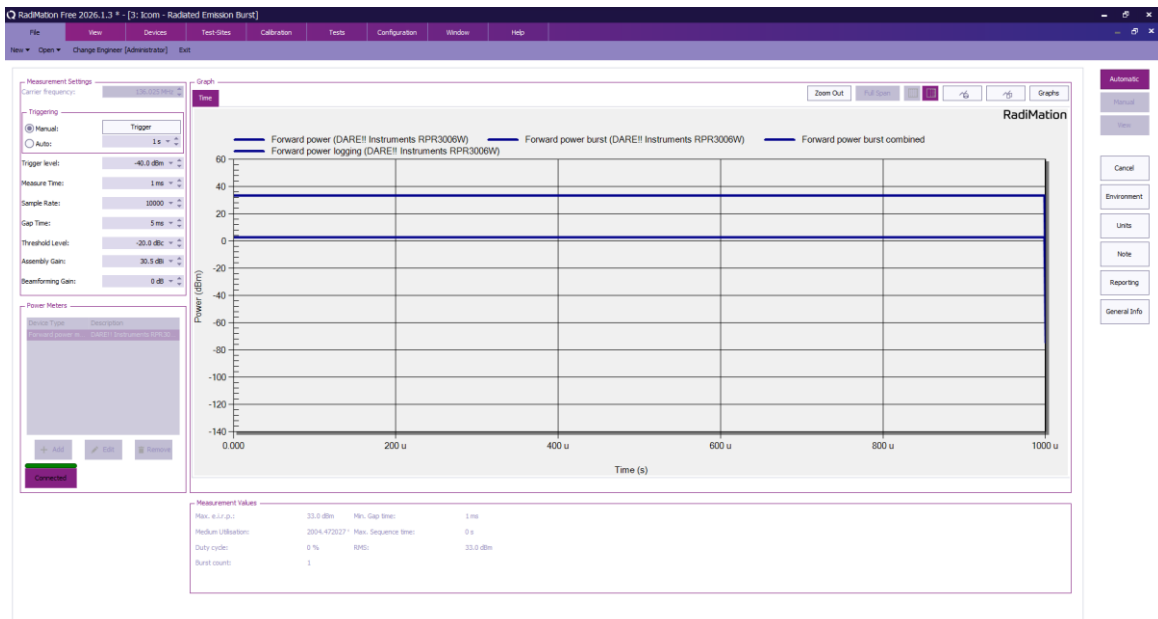
2.1.8 Sample Test Plots



Channel 07 136.025MHz (Wide)



Channel 06 173.975MHz (Narrow)



Channel 13 136.025MHz (Digital Very Narrow)



2.2 AUDIO FREQUENCY RESPONSE

2.2.1 Specification Reference

FCC CFR Title 47 Part 2.1047(a)
FCC CFR Title 47 Part 80.213 (e)
FCC CFR Title 47 Part 90.242 (b)(8)

2.2.2 Standard Applicable

§2.1047(a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitries installed between the modulation limiter and the modulated stage shall be submitted.

§90.242(b)(8) Each transmitter in a Travelers' Information Station shall be equipped with an audio low-pass filter. Such filter shall be installed either at the transmitter's audio input or between the modulation limiter and the modulated stage. At audio frequencies between 5 kHz and 20 kHz this filter shall have an attenuation greater than the attenuation at 1 kHz by at least: $83 \log_{10}(f/5)$ decibels where "f" is the audio frequency in kHz. At audio frequencies above 20 kHz, the attenuation shall be at least 50 decibels greater than the attenuation at 1 kHz.

2.2.3 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.2.4 Date of Test/Initial of test personnel who performed the test

September 17, 2026 / FSC.

2.2.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	22.3 °C
Relative Humidity	46.5 %
ATM Pressure	99.9 kPa

2.2.7 Additional Observations

- For AFR, the Constant Input Test Method per TIA-603 E is used.
- Using Peak Positive deviation, the 1kHz tone is adjusted to produce 20% of the rated system deviation. Channel used is 173.975MHz.
- The Audio Frequency Response is calculated using the formula:

$$AFR = 20 \log \frac{DEV_{FREQ}}{DEV_{REF}}$$

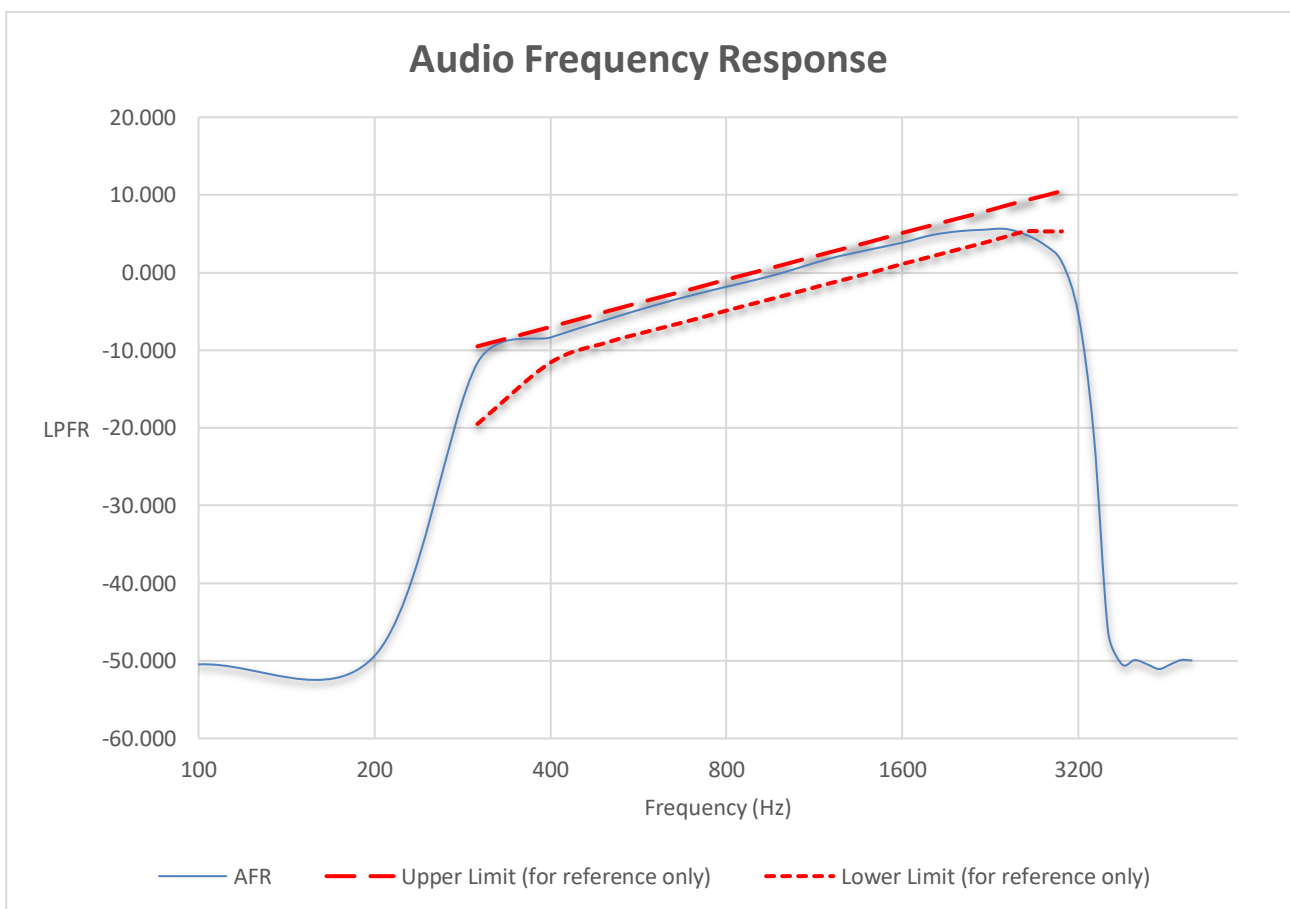


- There is no specific AFR limit specified under §2.1047(a), limit used for reference only is +1 dB / -3 dB per TIA-603 E Clause 3.2.6.
- For Audio Low Pass Filter Response (TIA-603 E Clause 2.2.15), full rated system deviation is used (100%). Channels used is 173.975MHz.
- Test Setup Photo will be provided as a separate exhibit.

2.2.8 Test Results

Frequency (Hz)	Audio Frequency Response	
	DEV_{FREQ}	AFR
100	0.0015	-50.458
200	0.0017	-49.370
300	0.131	-11.634
400	0.191	-8.359
500	0.249	-6.055
600	0.306	-4.265
700	0.358	-2.902
800	0.405	-1.830
900	0.45	-0.915
1000	0.5	0.000
1200	0.614	1.784
1400	0.7	2.923
1600	0.779	3.851
1800	0.873	4.841
2000	0.923	5.325
2200	0.943	5.511
2400	0.955	5.621
2600	0.877	4.881
2800	0.755	3.580
3000	0.583	1.334
3200	0.27	-5.352
3400	0.046	-20.724
3600	0.0024	-46.375
3800	0.0015	-50.458

4000	0.0016	-49.897
4200	0.0015	-50.458
4400	0.0014	-51.057
4600	0.0015	-50.458
4800	0.0016	-49.897
5000	0.00159	-49.951

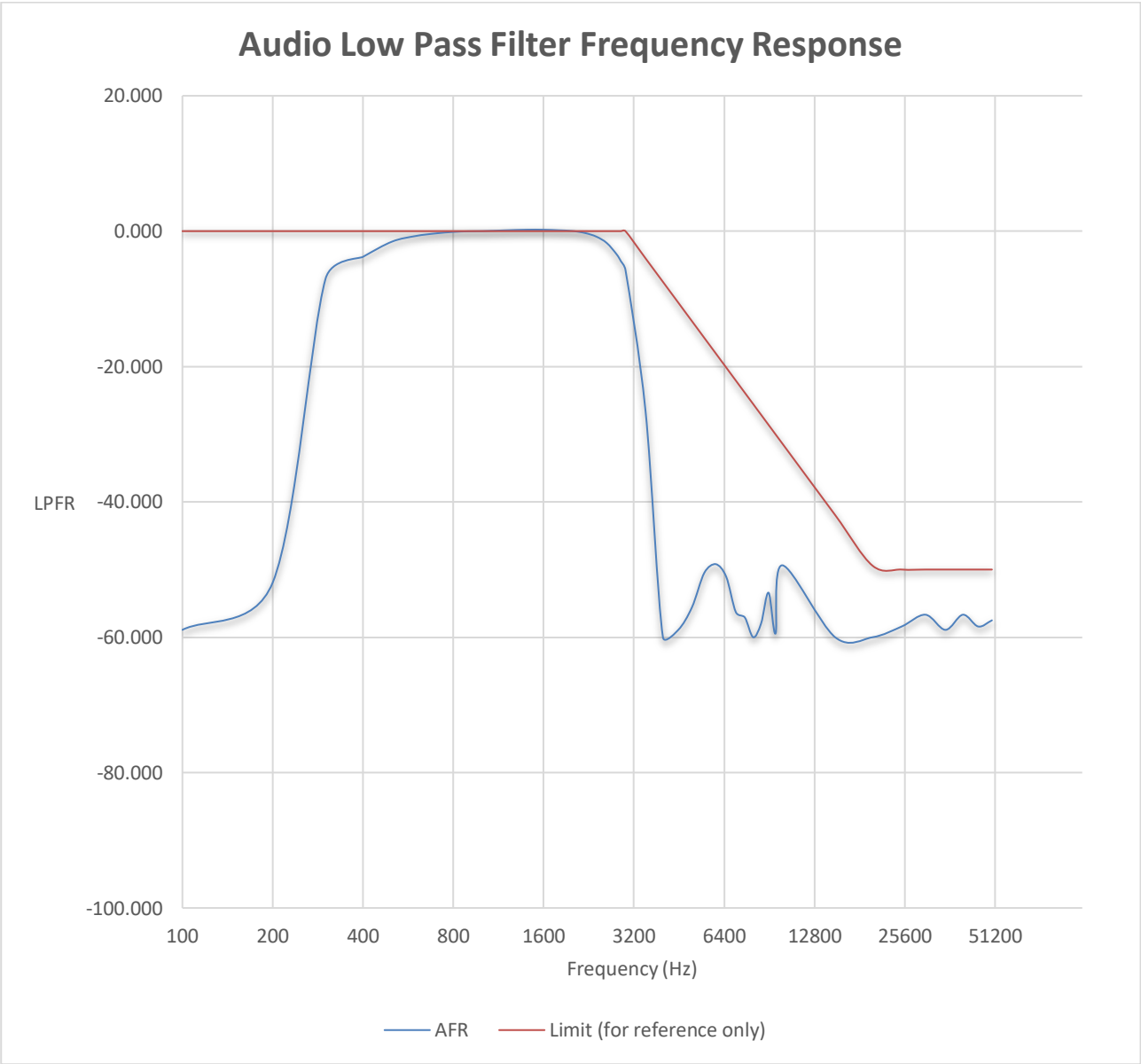




Frequency (Hz)	Low Pass Filter Response	
	LEV_{REF} (dB)	LPFR
100	0.95	-3.967
100	0.0017	-58.913
200	0.0038	-51.926
300	0.666	-7.052
400	0.969	-3.795
500	1.255	-1.549
600	1.3813	-0.716
700	1.444	-0.330
800	1.48	-0.117
900	1.496	-0.023
1000	1.5	0.000
1200	1.522	0.126
1400	1.537	0.212
1600	1.537	0.212
1800	1.5225	0.129
2000	1.5031	0.018
2200	1.453	-0.277
2400	1.366	-0.813
2600	1.225	-1.759
2800	1.0147	-3.395
2900	0.896	-4.476
3000	0.775	-5.736
3500	0.0702	-26.595
4000	0.0015	-60.000
4500	0.0017	-58.913
5000	0.0025	-55.563
5500	0.0045	-50.458
6000	0.0052	-49.202
6500	0.0042	-51.057
7000	0.0023	-56.287
7500	0.0021	-57.077
8000	0.0015	-60.000
8500	0.0019	-57.947
9000	0.0032	-53.419
9500	0.0016	-59.439
10000	0.0051	-49.370
15000	0.0015	-60.000
20000	0.0015	-60.000
25000	0.0018	-58.416



30000	0.0022	-56.673
35000	0.0017	-58.913
40000	0.0022	-56.673
45000	0.0018	-58.416
50000	0.002	-57.501



2.3 MODULATION CHARACTERISTICS – MODULATION LIMITING

2.3.1 Specification Reference

FCC CFR Title 47 Part 2.1047(b)
FCC CFR Title 47 Part 74.463
FCC CFR Title 47 Part 80.213 (a)(2), (b) and (d)
FCC CFR Title 47 Part 90.210

2.3.2 Standard Applicable

§2.1047(b) Equipment which employs modulation limiting. A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The information submitted shall be sufficient to show modulation limiting capability throughout the range of modulating frequencies and input modulating signal levels employed.

§80.213(a)(2) When phase or frequency modulation is used in the 156-162 MHz band the peak modulation must be maintained between 75 and 100 percent. A frequency deviation of ± 5 kHz is defined as 100 percent peak modulation

§80.213(b) Radiotelephone transmitters using A3E, F3E and G3E emission must have a modulation limiter to prevent any modulation over 100 percent. This requirement does not apply to survival craft transmitters, to transmitters that do not require a license or to transmitters whose output power does not exceed 3 watts.

§80.213(d) Ship and coast station transmitters operating in the 156-162 MHz and 216-220 bands must be capable of proper operation with a frequency deviation that does not exceed ± 5 kHz when using any emission authorized by [§ 80.207](#).

2.3.3 Equipment Under Test and Modification State

Serial No: 21000306 / Test Mode Configuration

2.3.4 Date of Test/Initial of test personnel who performed the test

September 18, 2026 / FSC.

2.3.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.3.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

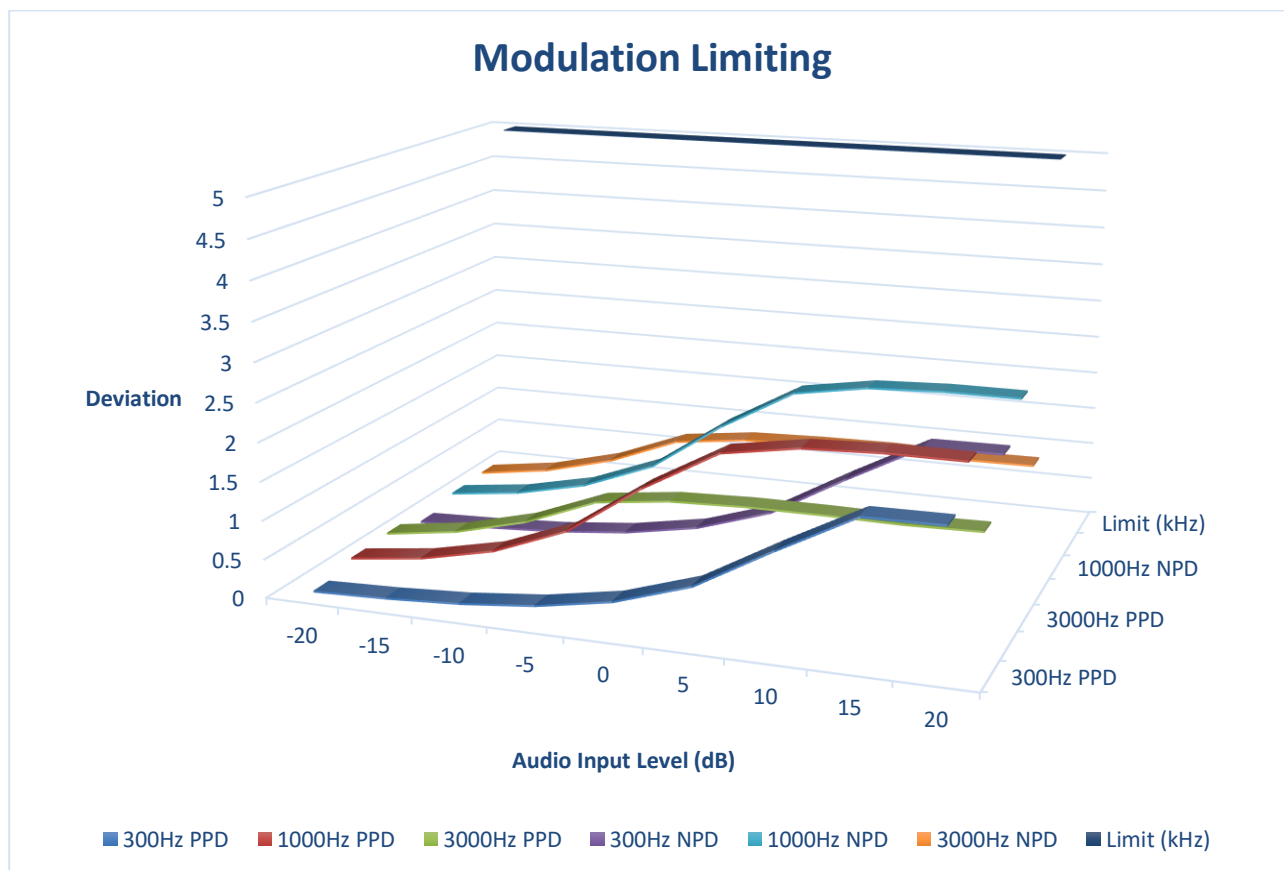
Ambient Temperature	22.3 °C
Relative Humidity	46.5 %
ATM Pressure	99.9 kPa

2.3.7 Additional Observations

For this test, the 1kHz tone is adjusted to produce 60% of the rated system deviation. Channel used is 173.975MHz.

2.3.8 Test Results

Audio Input Level (dB)	Positive Peak Deviation (PPD) (kHz)			Negative Peak Deviation (NPD) (kHz)			Limit (kHz)
	300 Hz	1000 Hz	3000Hz	300 Hz	1000 Hz	3000Hz	
-20	0.043	0.155	0.181	0.042	0.156	0.18	5
-15	0.074	0.272	0.317	0.075	0.272	0.316	
-10	0.128	0.481	0.56	0.129	0.482	0.561	
-5	0.225	0.854	0.936	0.226	0.852	0.935	
0	0.398	1.51	1.053	0.399	1.51	1.054	
5	0.71	2.052	1.087	0.711	2.053	1.086	
10	1.262	2.21	1.09	1.263	2.21	1.1	
15	1.78	2.25	1.08	1.78	2.25	1.08	
20	1.79	2.25	1.1	1.79	2.25	1.09	





2.4 OCCUPIED BANDWIDTH AND EMISSIONS LIMITATIONS

2.4.1 Specification Reference

FCC CFR Title 47 Part 2.1049 (c)(1)
FCC CFR Title 47 Part 74.462 (c)
FCC CFR Title 47 Part 80.211 (f)
FCC CFR Title 47 Part 90.209 and 90.210

2.4.2 Standard Applicable

§2.1049 The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable:

(c) Radiotelephone transmitters equipped with a device to limit modulation or peak envelope power shall be modulated as follows. For single sideband and independent sideband transmitters, the input level of the modulating signal shall be 10 dB greater than that necessary to produce rated peak envelope power.

(1) Other than single sideband or independent sideband transmitters—when modulated by a 2500 Hz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation. The input level shall be established at the frequency of maximum response of the audio modulating circuit.

2.4.3 Summary of Mask Applicable

Mode	Channel Spacing (kHz)	Authorized Bandwidth (kHz)	Recommended Frequency Deviation (kHz)	FCC Mask
Narrow	15.0	11.25	2.5	Mask D
Wide	25.0	20	5.0	Mask B
Digital Verry Narrow	7.50	6	1.25	Mask E
Mask details are from §90.210				

2.4.4 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.4.5 Date of Test/Initial of test personnel who performed the test

September 17, 2026 and October 12, 2026 / FSC

2.4.6 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.7 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.



Ambient Temperature 24.7 °C
Relative Humidity 43.7 %
ATM Pressure 99.99 kPa

2.4.8 Additional Observations

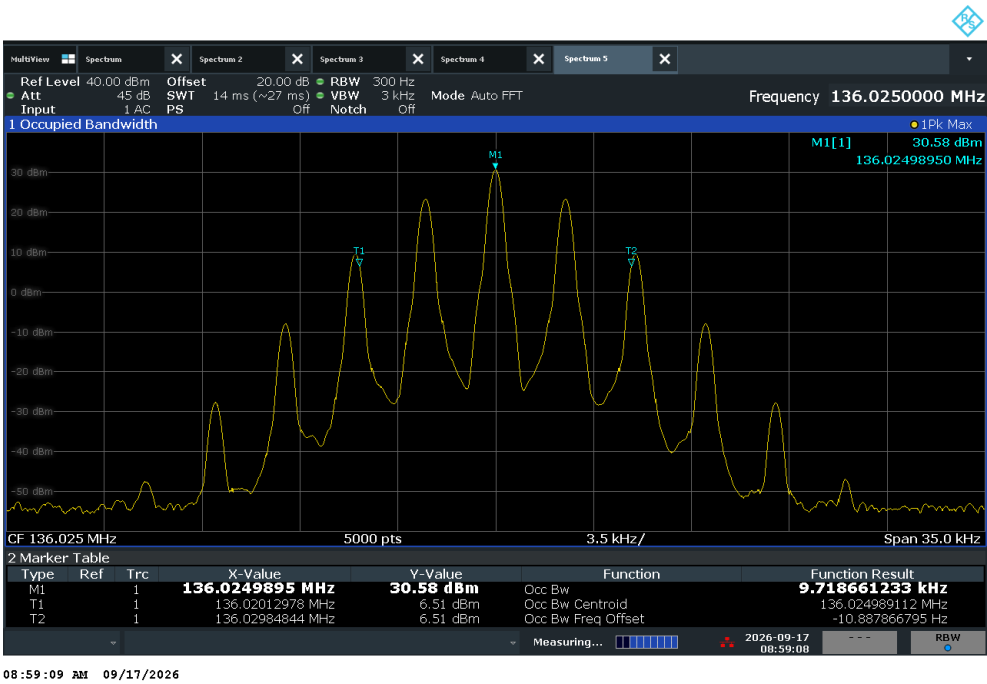
- This is a conducted test.
- Both Occupied Bandwidth and Emissions Mask were verified.
- 99% Occupied Function of the spectrum analyzer was utilized.
- RBW is between 1 to 5% of the OBW, VBW is $\geq 3X$ the RBW.
- Compensation for cable loss and RF attenuator path loss was applied as an offset during the measurement.
- For analog signals, compliance was evaluated by modulating the transmitter with a 2500 Hz tone at an audio input level 16 dB greater than that required to achieve 50% modulation. The baseline input level was determined at the frequency of maximum response of the audio modulating circuit.
- For digital signals, EUT was operated using digital modulation at the maximum rated symbol rate and input amplitude (default setting).
- Worst case mask (worst case attenuation) used for both high power and low power mode (margin of compliance $>20\text{dB}$).
- Test method was performed per ANSI C63.26, 2015 Edition, 2015 Section 5.4 and 5.7.
- Test setup photos will be provided as a separate exhibit.

2.4.9 Test Results 99% OBW

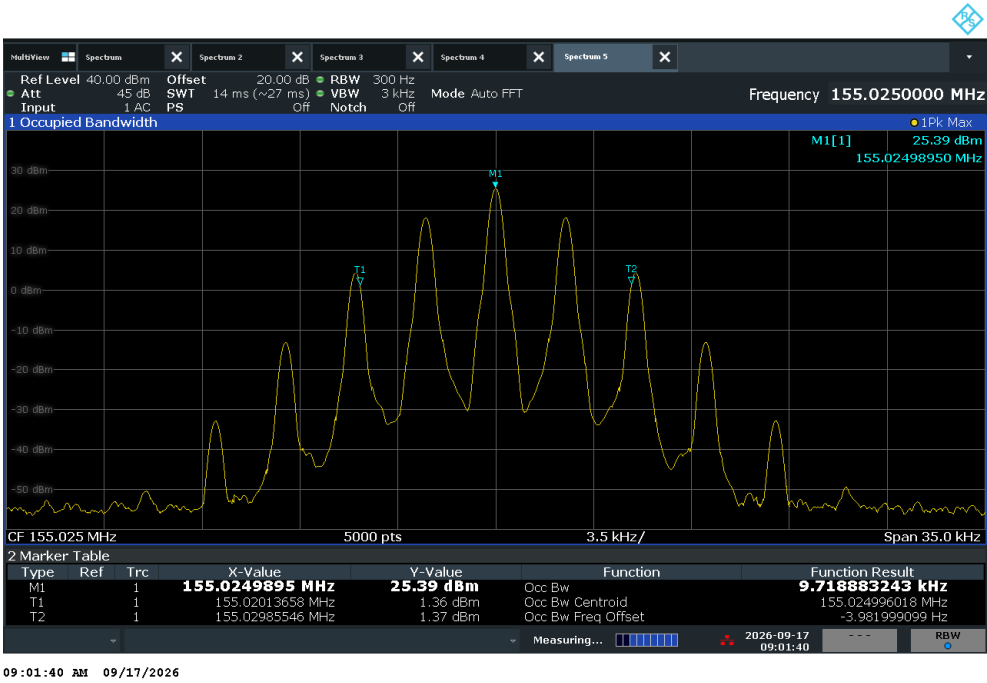
Channel	Frequency (MHz)	Wide/Narrow	Authorized Bandwidth (kHz)	99% OBW (kHz)
CH01	136.025	Narrow	11.25	9.72
CH02	155.025	Narrow	11.25	9.72
CH03	173.975	Narrow	11.25	9.69
CH04	136.025	Narrow	11.25	9.72
CH05	155.025	Narrow	11.25	9.72
CH06	173.975	Narrow	11.25	9.72
CH07	136.025	Wide	20.0	14.8
CH08	155.025	Wide	20.0	14.8
CH09	173.975	Wide	20.0	14.8
CH10	136.025	Wide	20.0	14.8
CH11	155.025	Wide	20.0	14.8
CH12	173.975	Wide	20.0	14.8
CH13	136.025	Digital Very Narrow	6.0	3.33
CH14	155.025	Digital Very Narrow	6.0	3.33
CH15	173.975	Digital Very Narrow	6.0	3.34
CH16	136.025	Digital Very Narrow	6.0	3.32
CH17	155.025	Digital Very Narrow	6.0	3.35
CH18	173.975	Digital Very Narrow	6.0	3.33



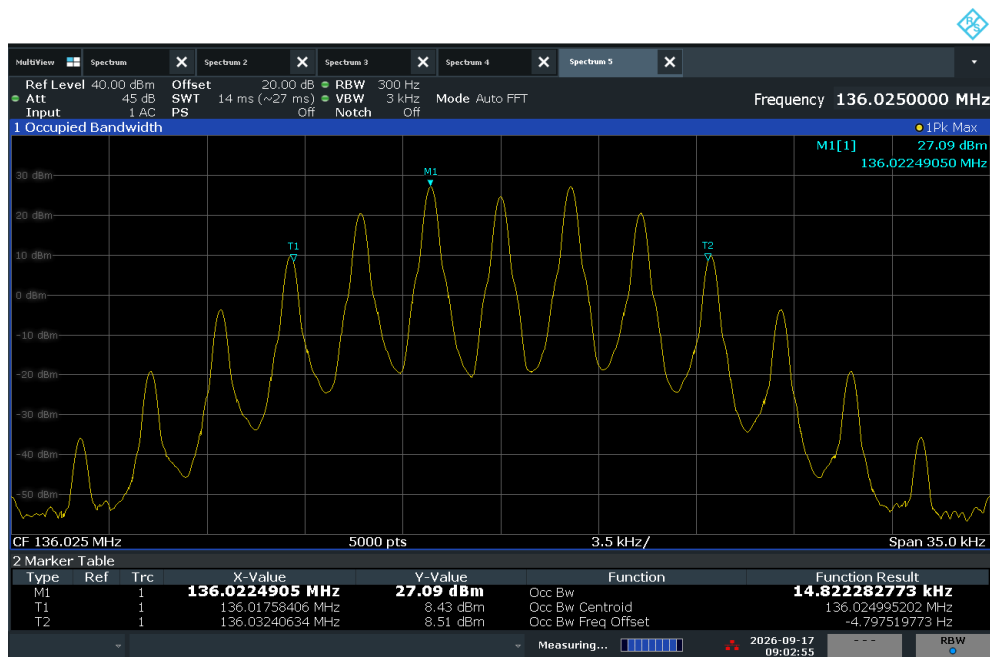
2.4.10 Sample Test Plots 99% OBW



Channel 01

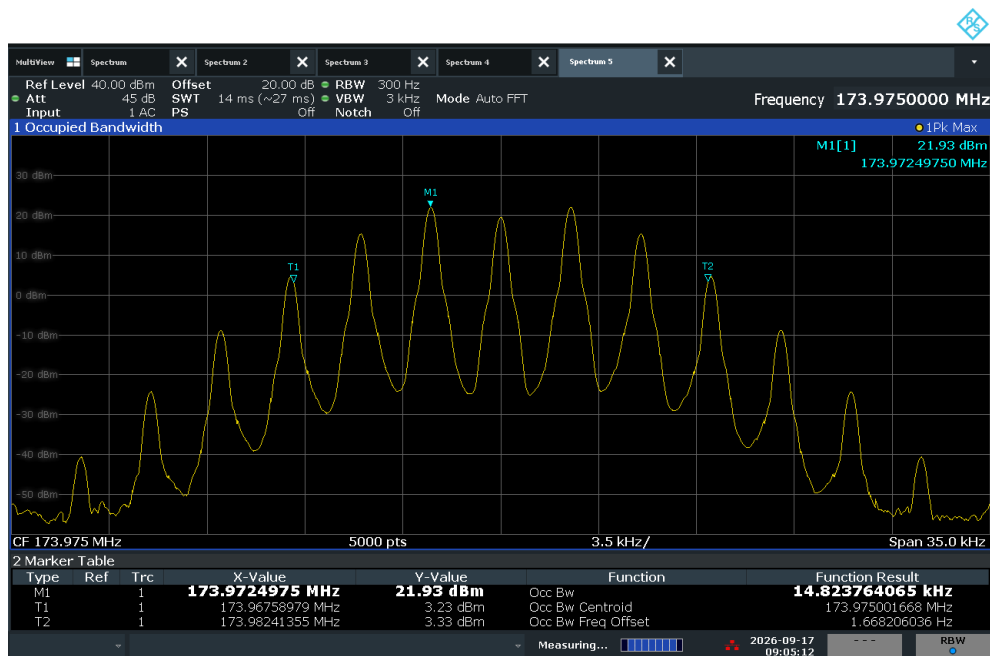


Channel 05



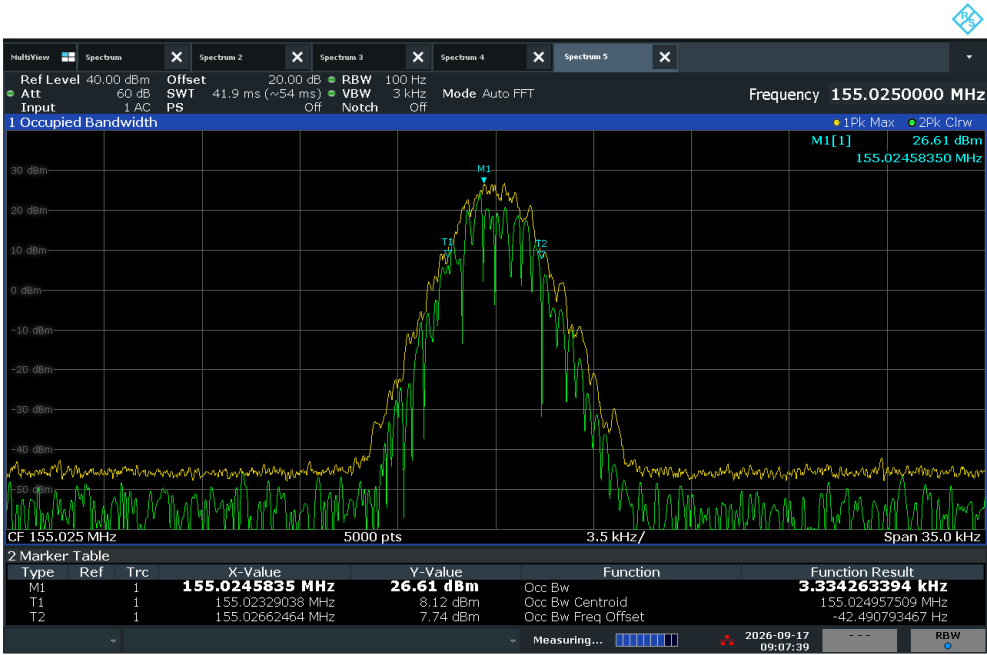
09:02:56 AM 09/17/2026

Channel 07



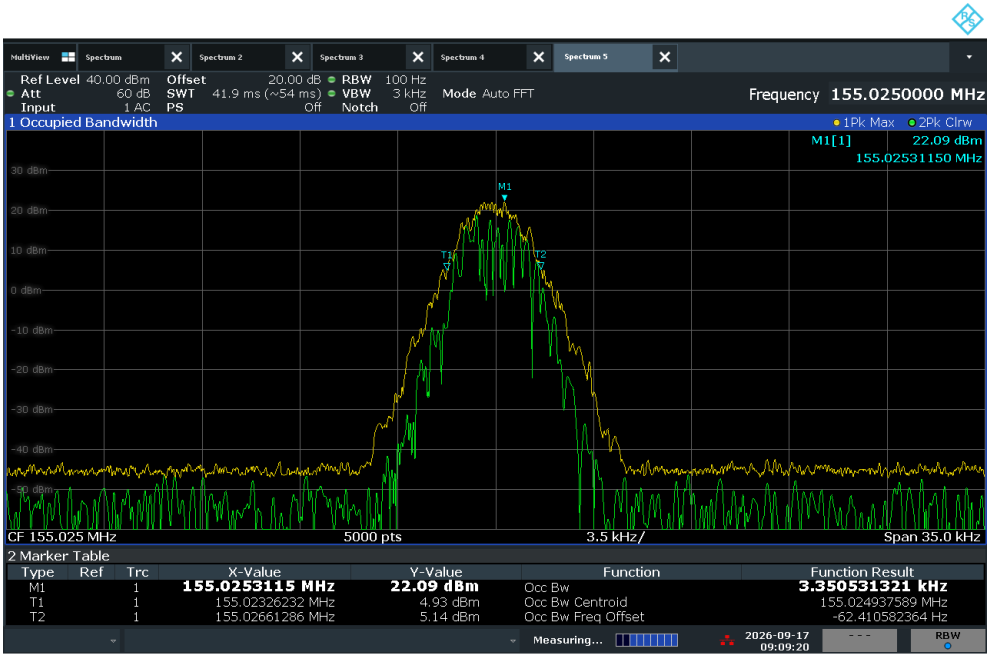
09:05:13 AM 09/17/2026

Channel 12



09:07:40 AM 09/17/2026

Channel 14

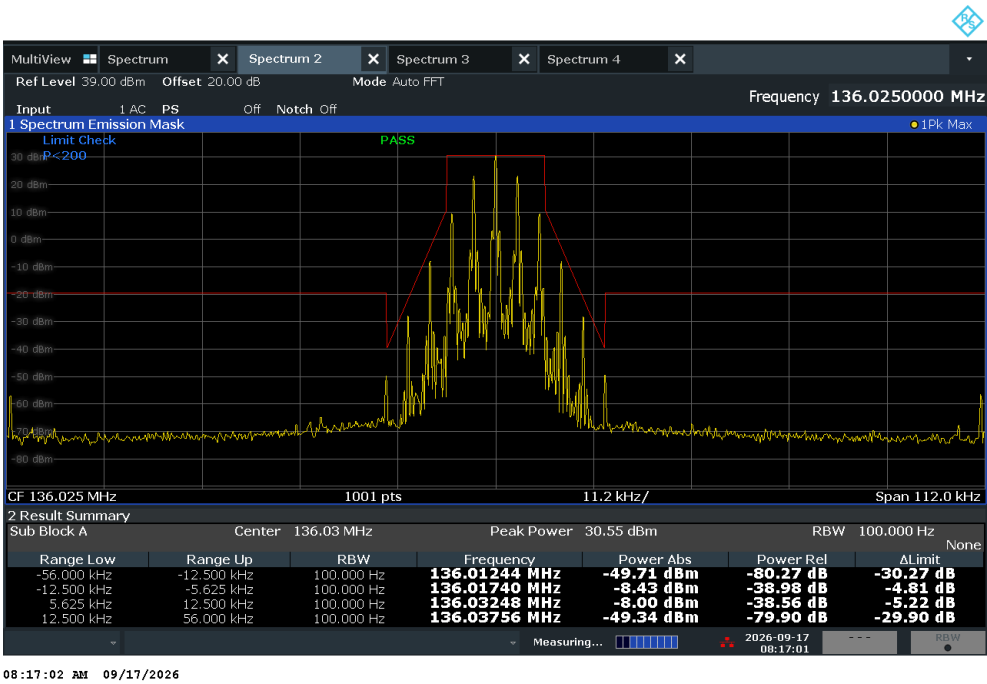


09:09:21 AM 09/17/2026

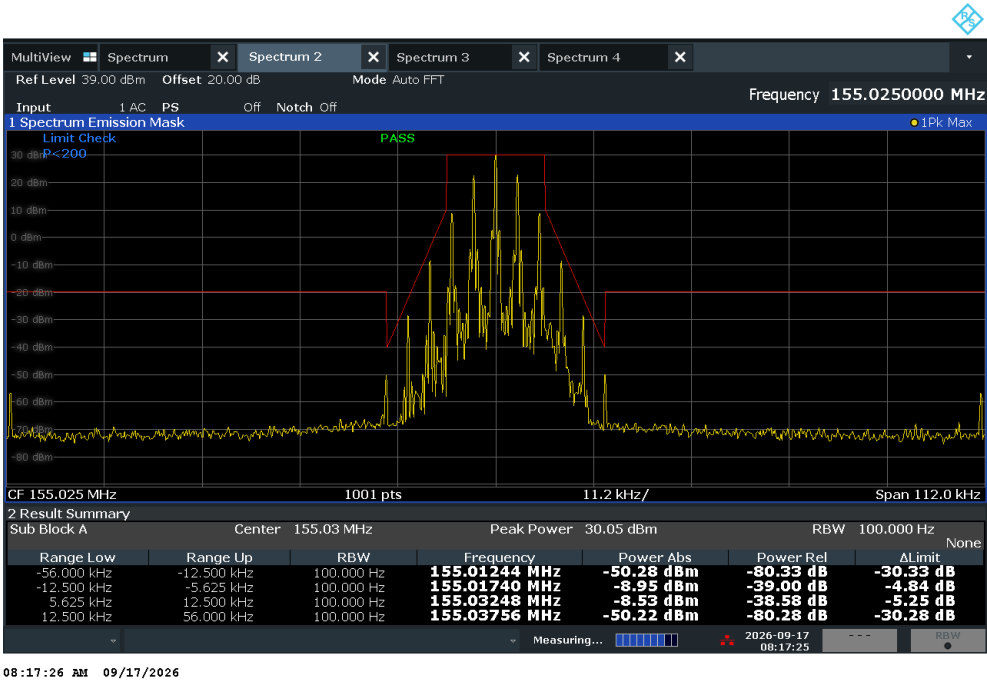
Channel 17



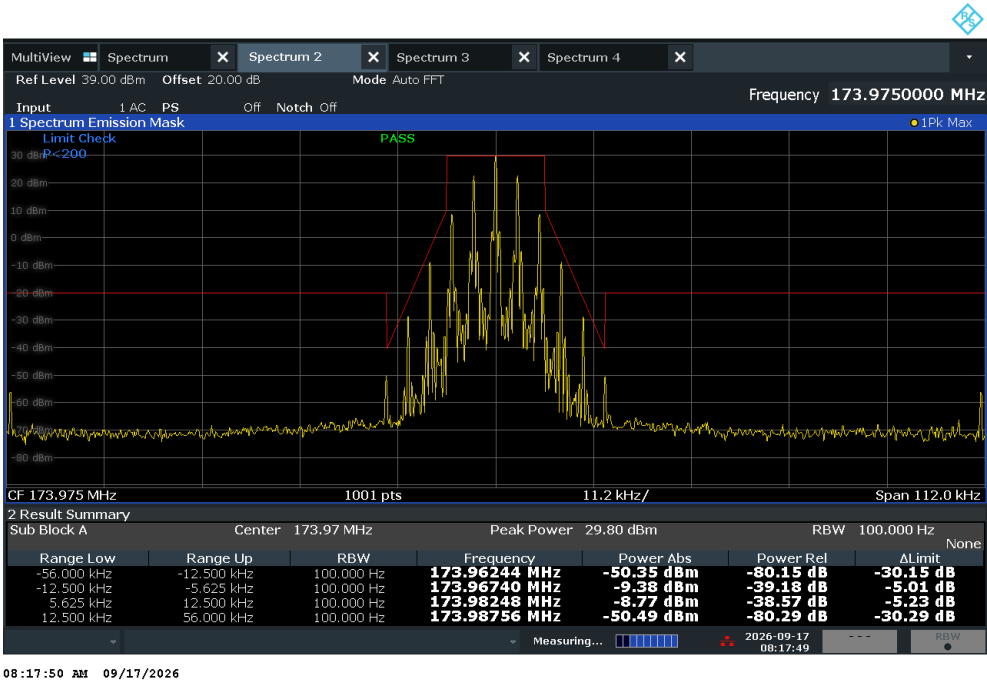
2.4.11 Emission Mask Plots



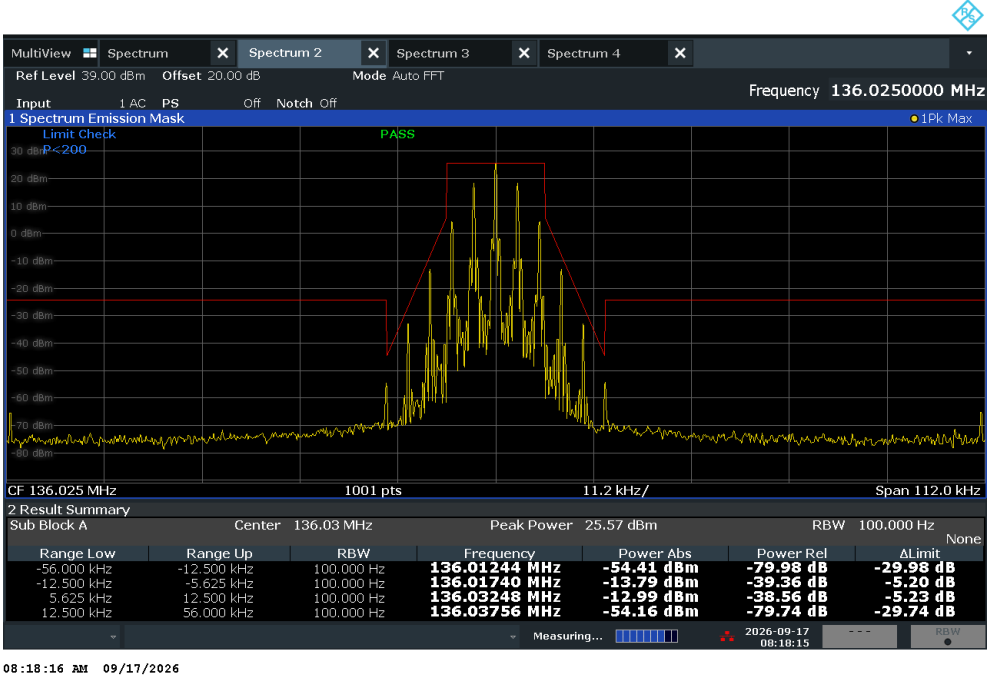
Channel 01 Narrow Mask D



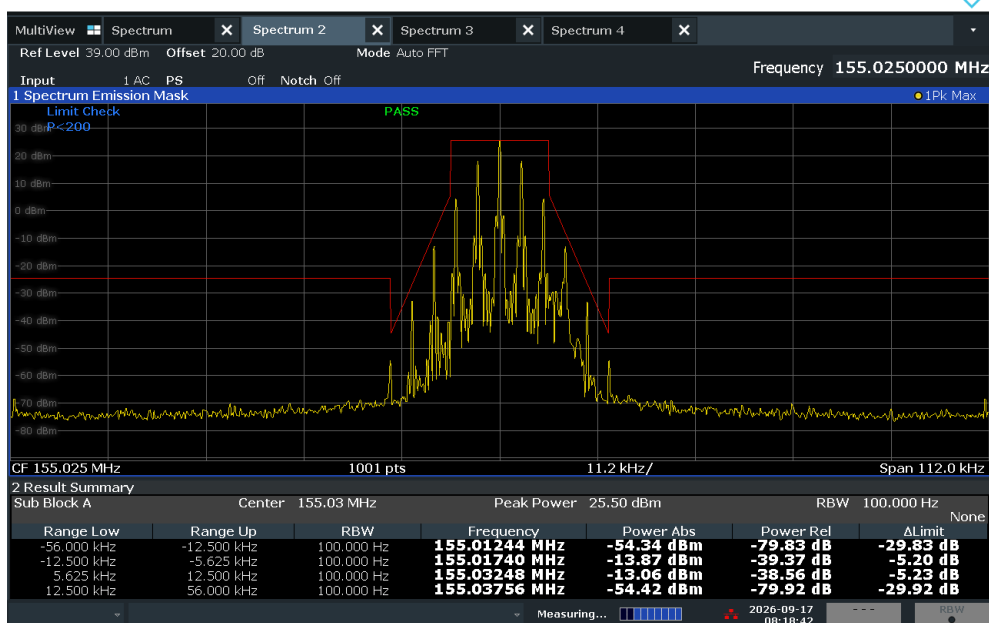
Channel 02 Narrow Mask D



Channel 03 Narrow Mask D

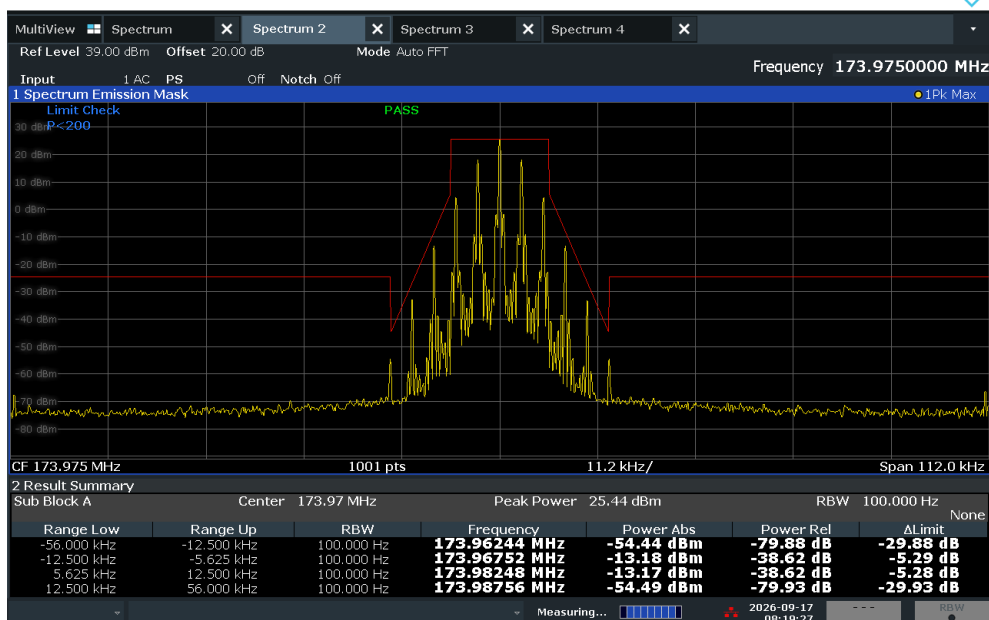


Channel 04 Narrow Mask D



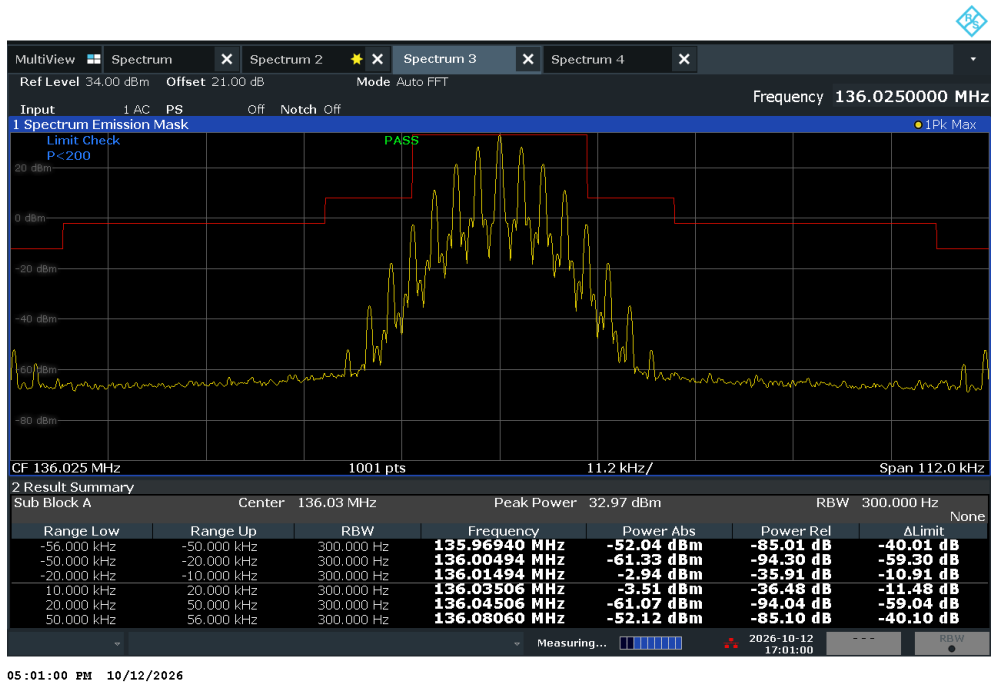
08:18:43 AM 09/17/2026

Channel 05 Narrow Mask D

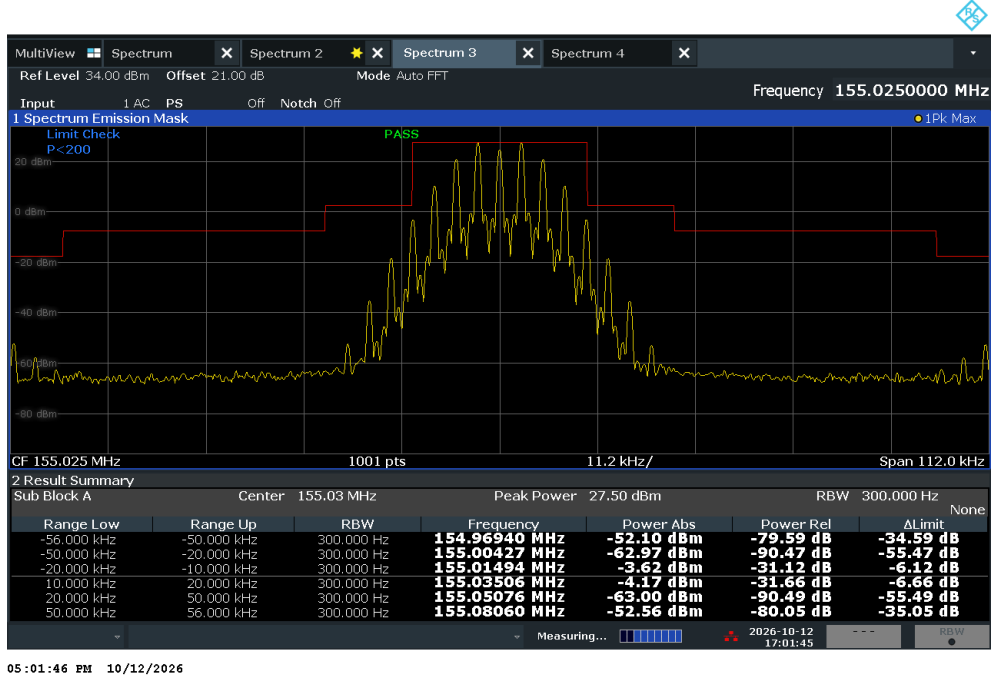


08:19:28 AM 09/17/2026

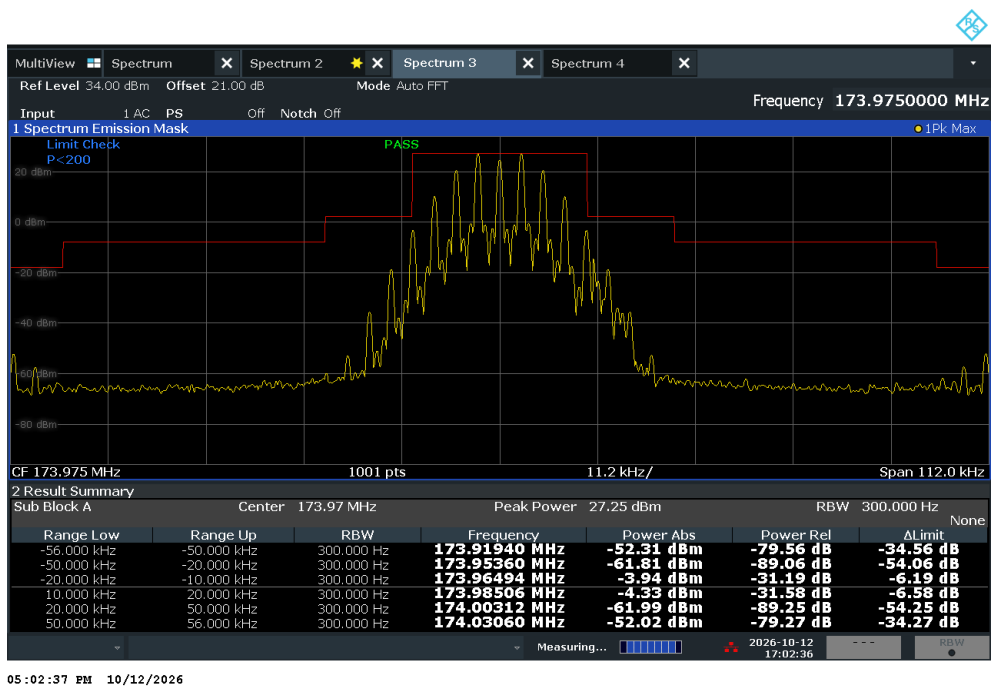
Channel 06 Narrow Mask D



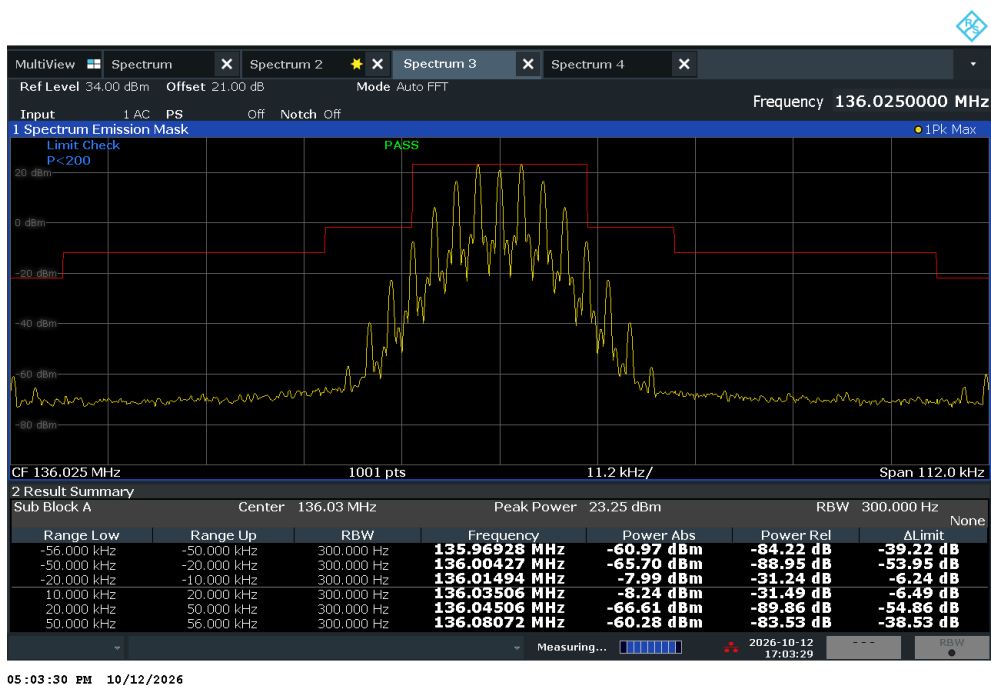
Channel 07 Wide Mask B



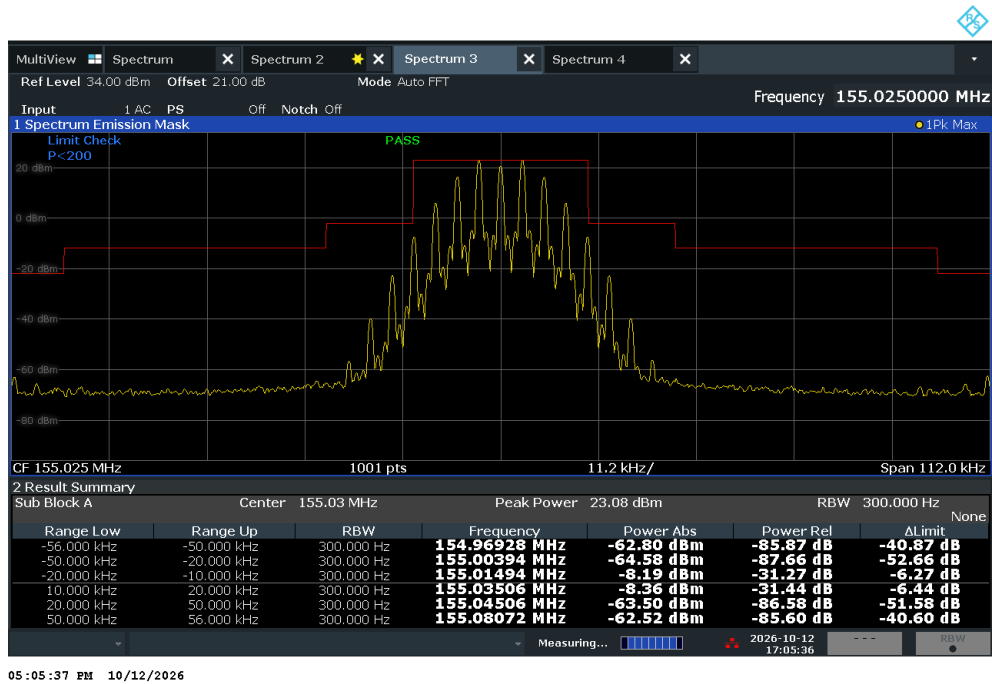
Channel 08 Wide Mask B



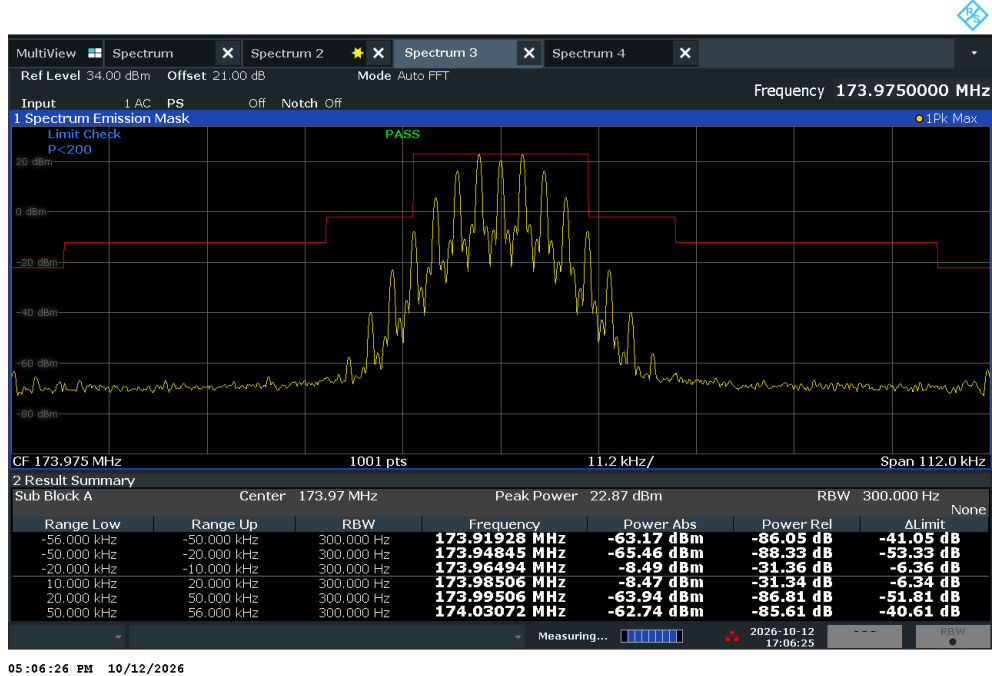
Channel 09 Wide Mask B



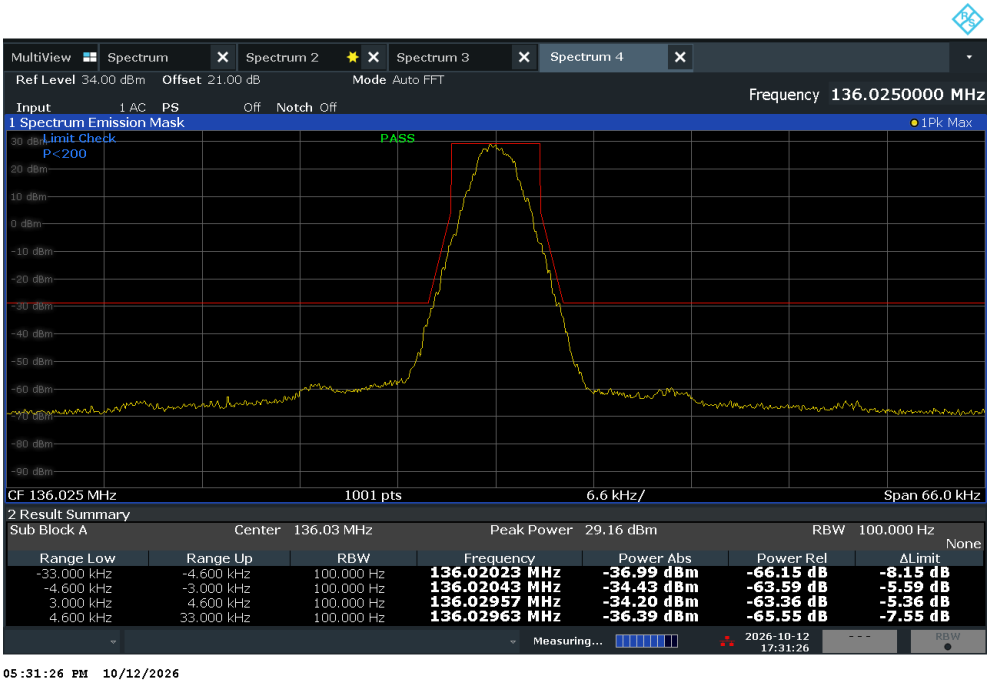
Channel 10 Wide Mask B



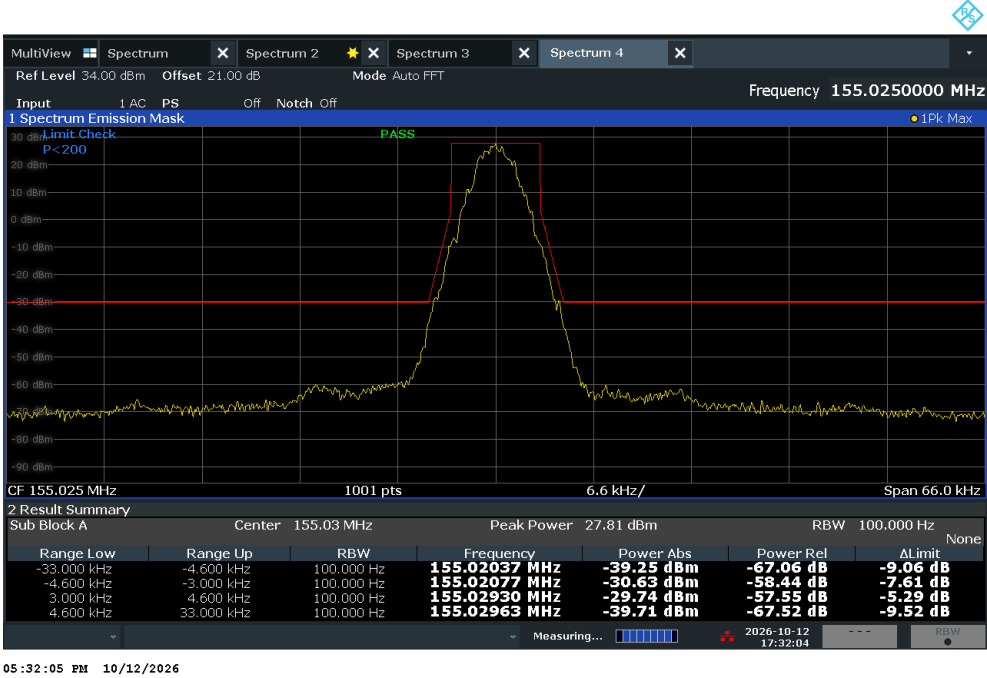
Channel 11 Wide Mask B



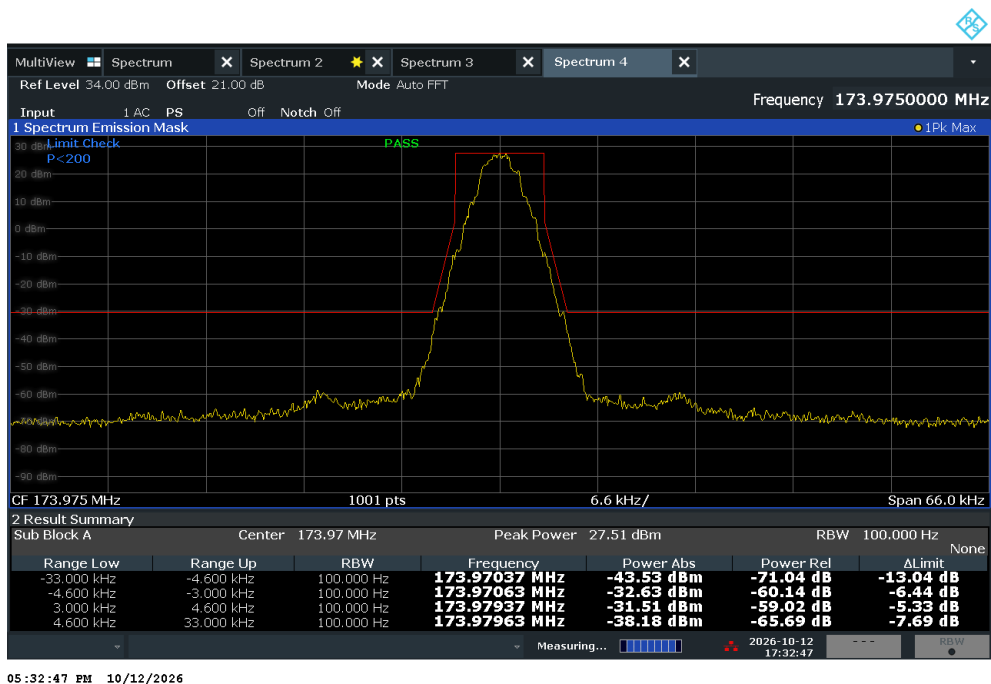
Channel 12 Wide Mask B



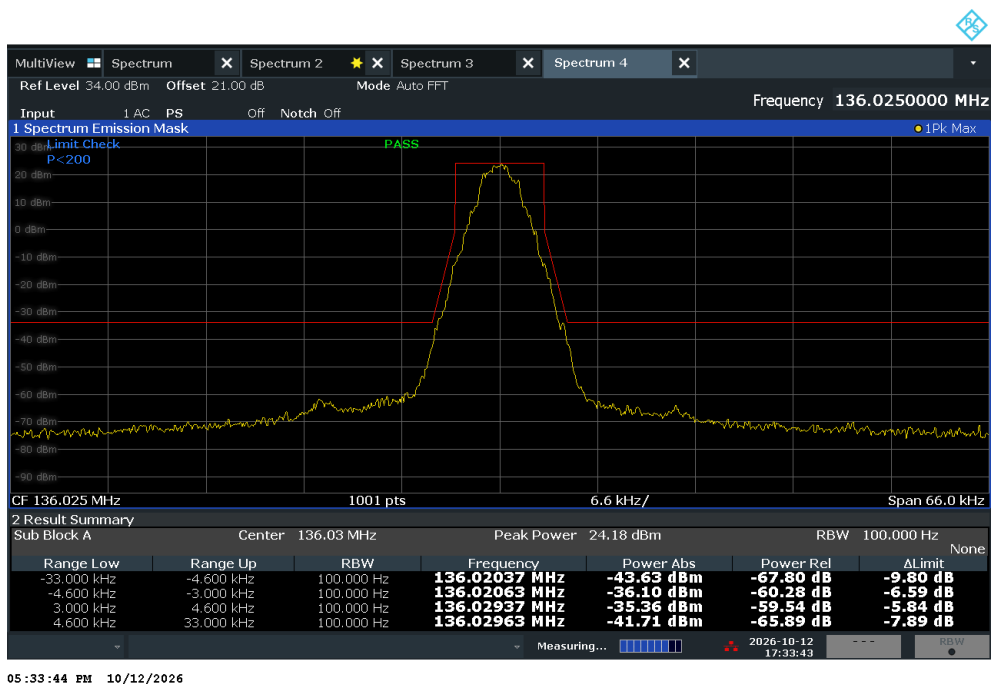
Channel 13 Digital Very Narrow Mask E



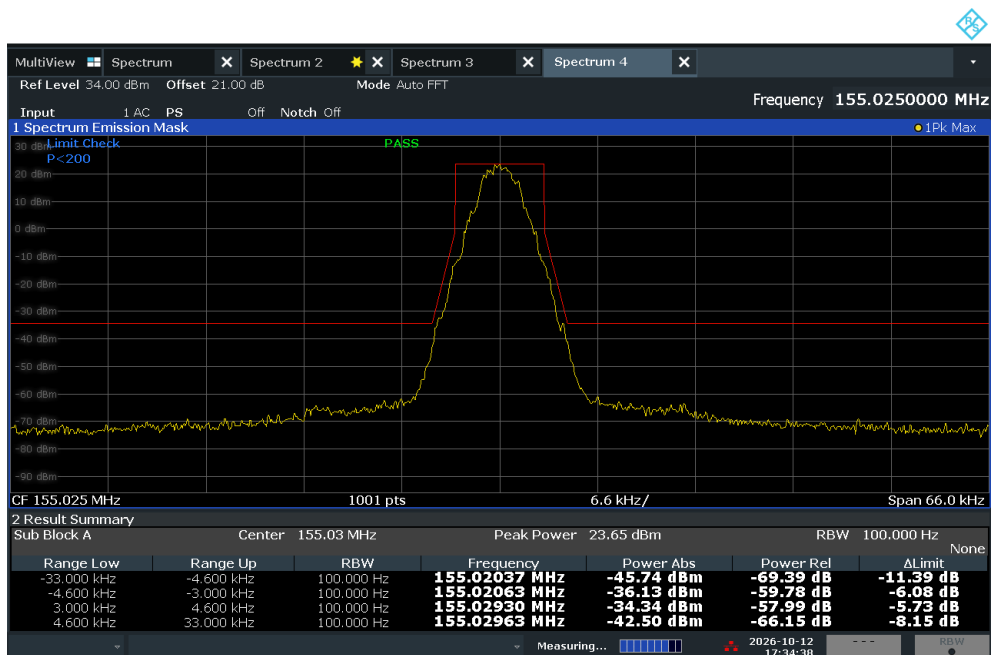
Channel 14 Digital Very Narrow Mask E



Channel 15 Digital Very Narrow Mask E

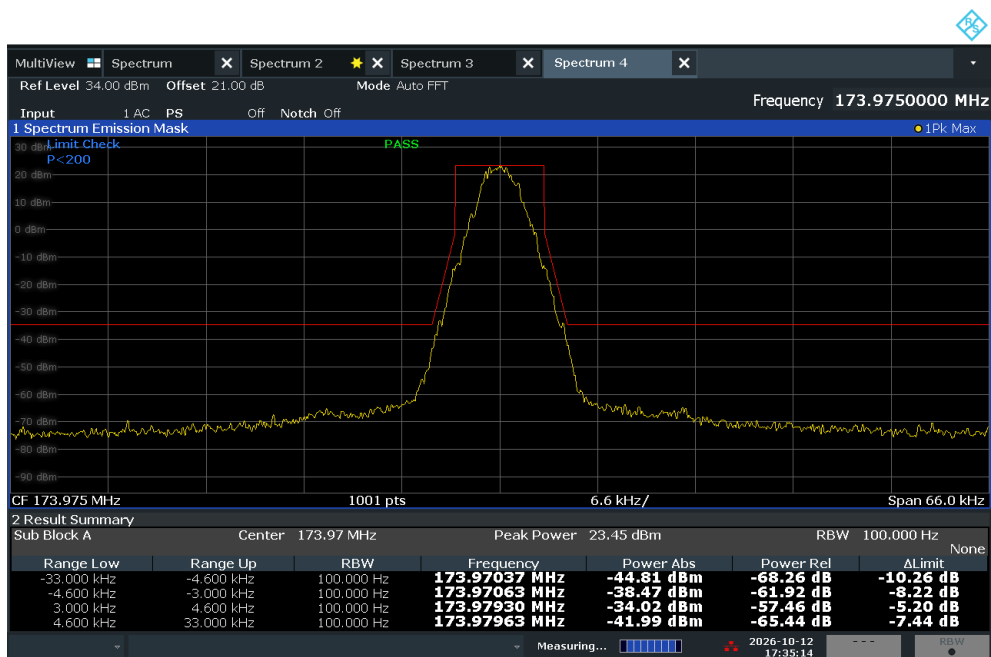


Channel 16 Digital Very Narrow Mask E



05:34:38 PM 10/12/2026

Channel 17 Digital Very Narrow Mask E



05:35:15 PM 10/12/2026

Channel 18 Digital Very Narrow Mask E



2.5 SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL

2.5.1 Specification Reference

FCC CFR Title 47 Part 2.1051
FCC CFR Title 47 Part 80.211(f)(3)
FCC CFR Title 47 Part 90.210(e)

2.5.2 Standard Applicable

FCC CFR Title 47 Part 80.211 (f)(3)

On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 plus $10\log_{10}$ (mean power in watts) dB.

FCC CFR Title 47 Part 90.210 (e)

On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log (P)$ or 65 dB, whichever is the lesser attenuation.

2.5.3 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.5.4 Date of Test/Initial of test personnel who performed the test

September 13, 2026 / FSC.

2.5.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

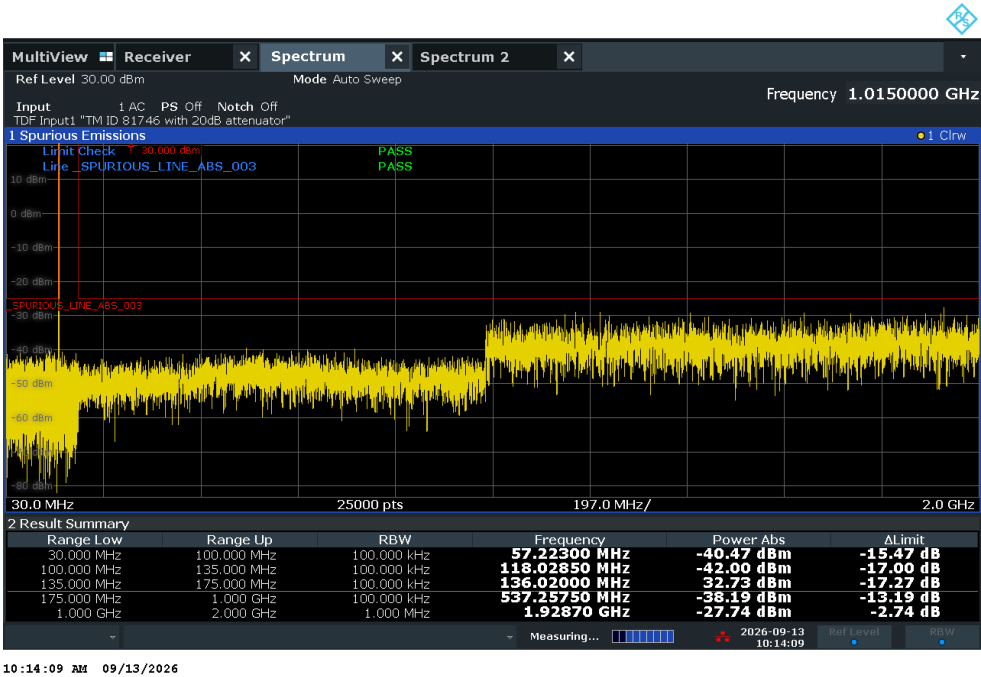
Ambient Temperature	26.0 °C
Relative Humidity	51.2 %
ATM Pressure	99.9 kPa

2.5.7 Additional Observations

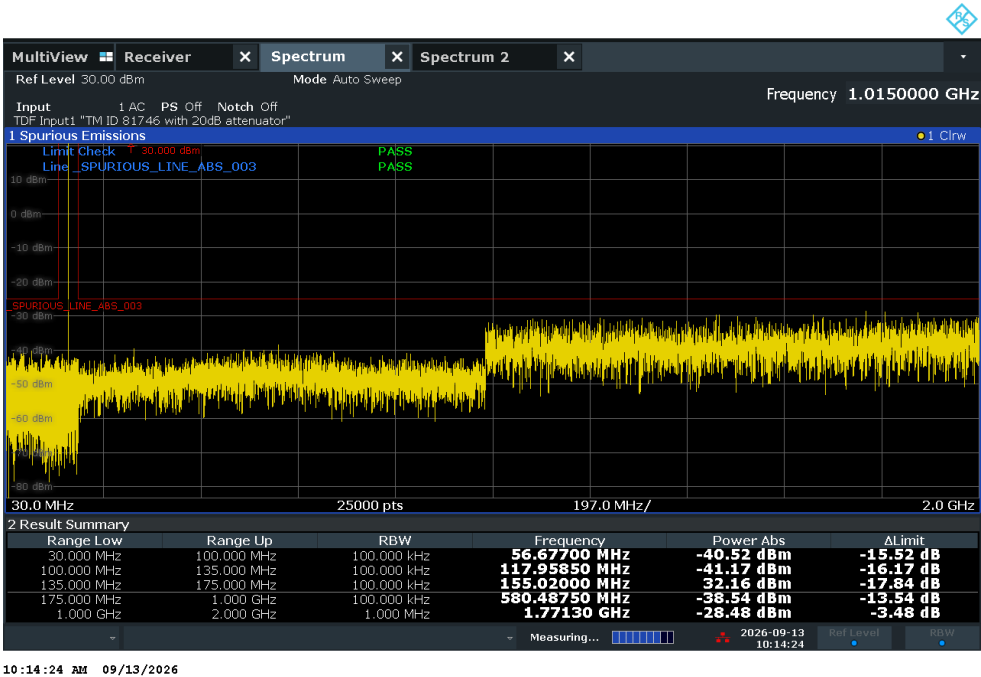
- This is a conducted test. The frequency range covered in this test is from 30MHz to 2 GHz.
- Worst-case limit of Part 90.210 (e) will be used for this evaluation.
- Spurious Emissions function of the Spectrum Analyzer is used for this test.
- Test was performed according to the guidance from ANSI C63.26, 2015 Edition, 2015 Section 5.7.
- Test setup photos will be provided as a separate exhibit.



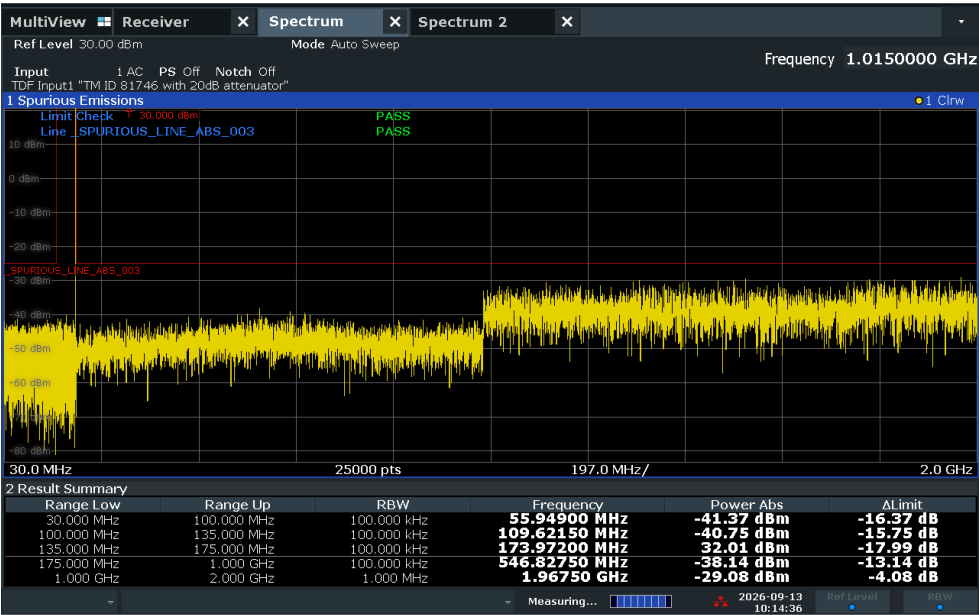
2.5.8 Test Results



Channel 01 Narrow

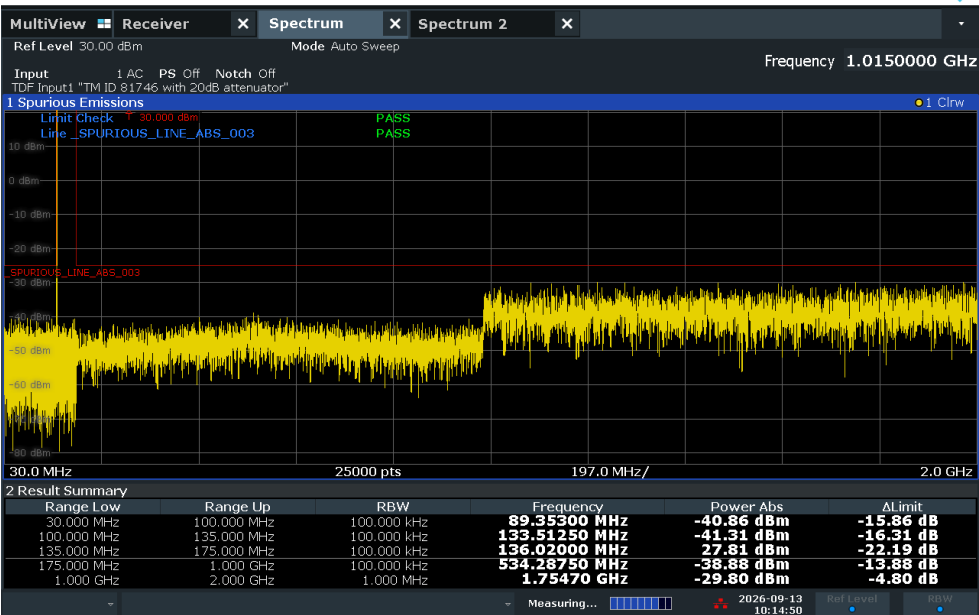


Channel 02 Narrow



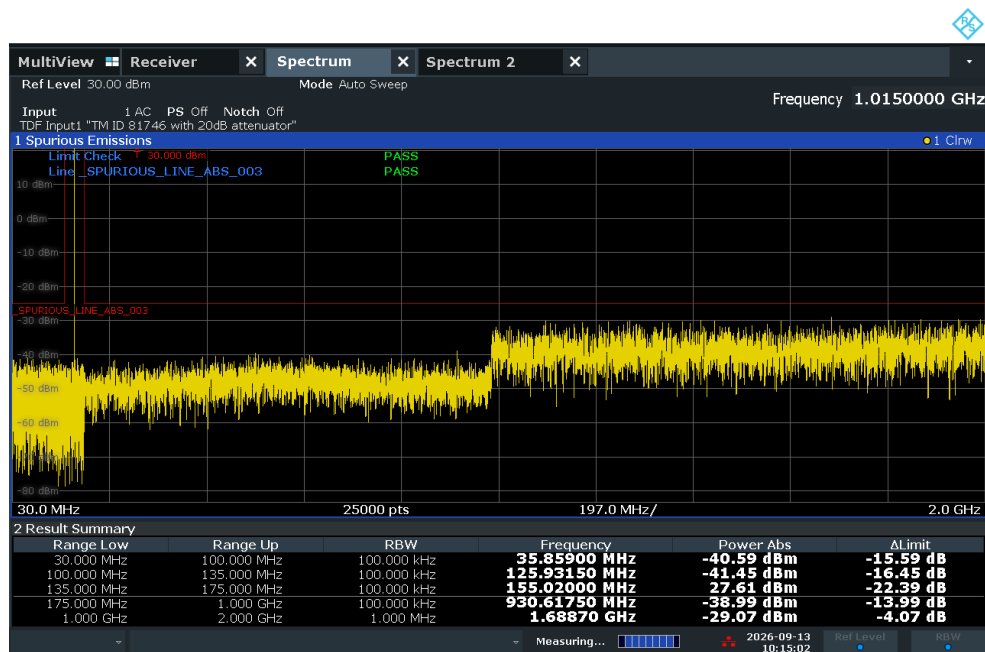
10:14:36 AM 09/13/2026

Channel 03 Narrow



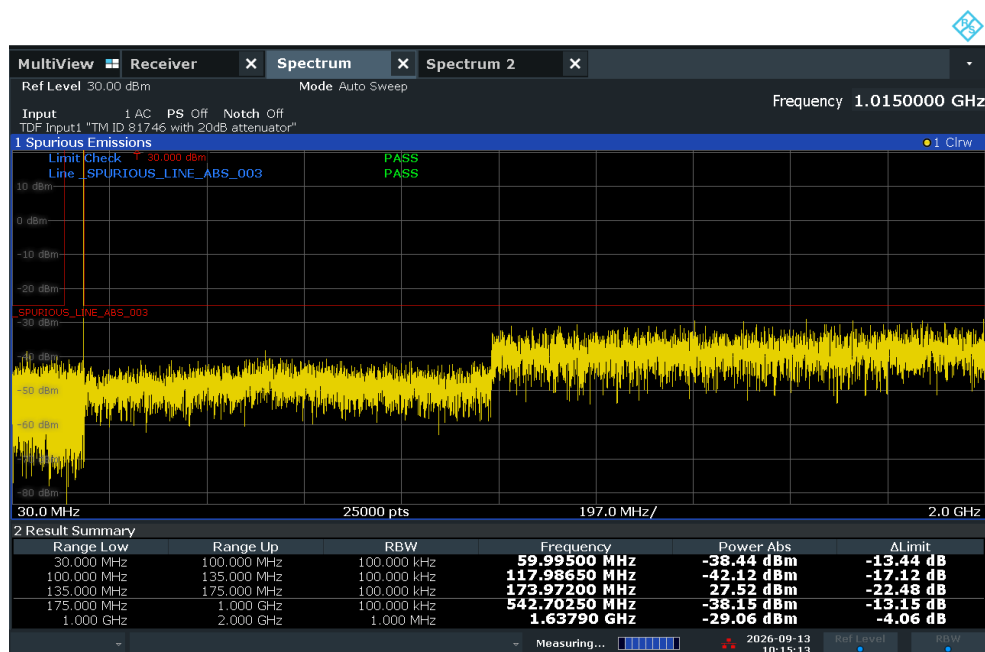
10:14:50 AM 09/13/2026

Channel 04 Narrow



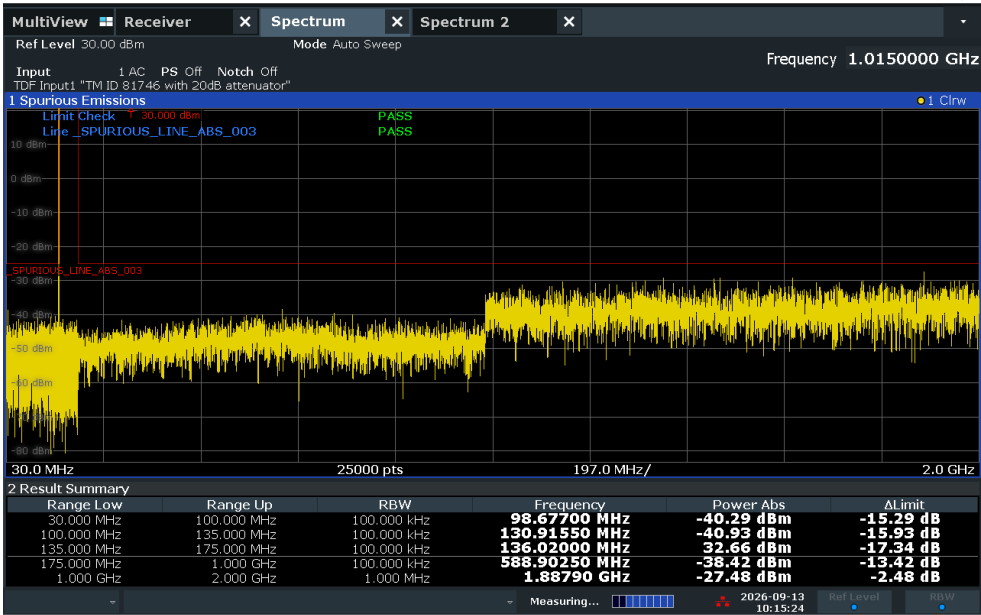
10:15:02 AM 09/13/2026

Channel 05 Narrow



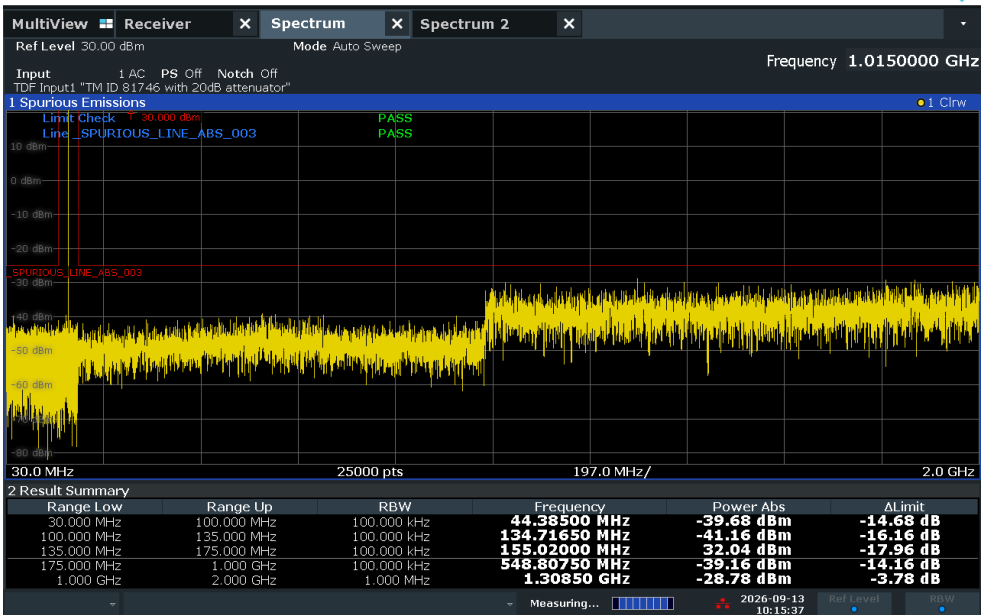
10:15:13 AM 09/13/2026

Channel 06 Narrow



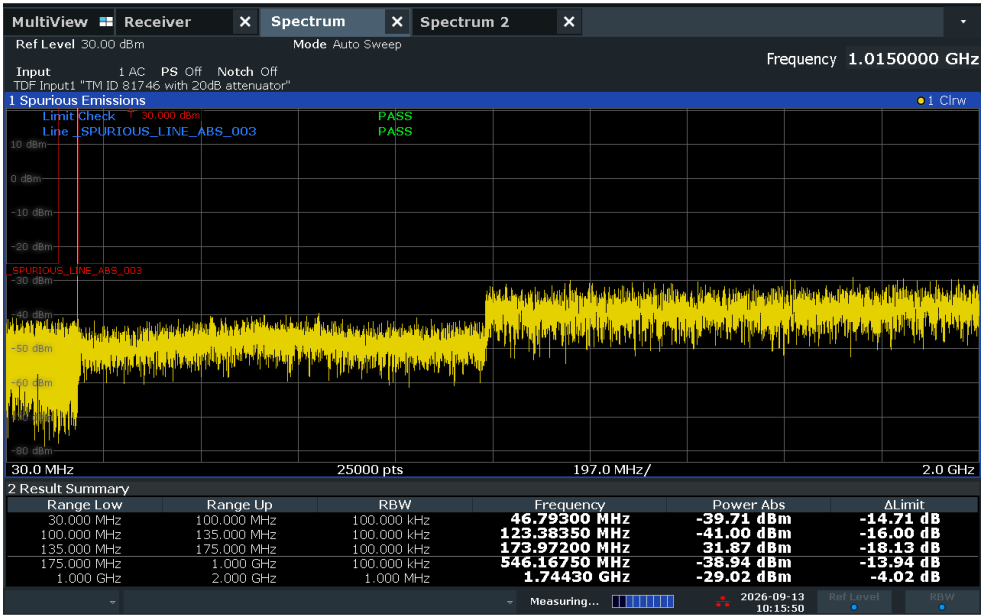
10:15:24 AM 09/13/2026

Channel 07 Wide



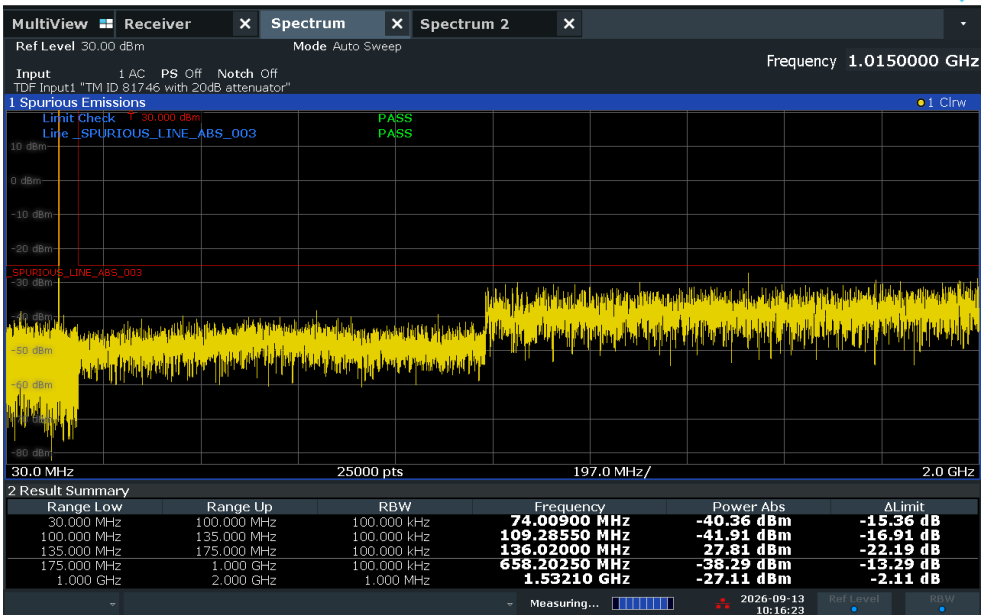
10:15:38 AM 09/13/2026

Channel 08 Wide



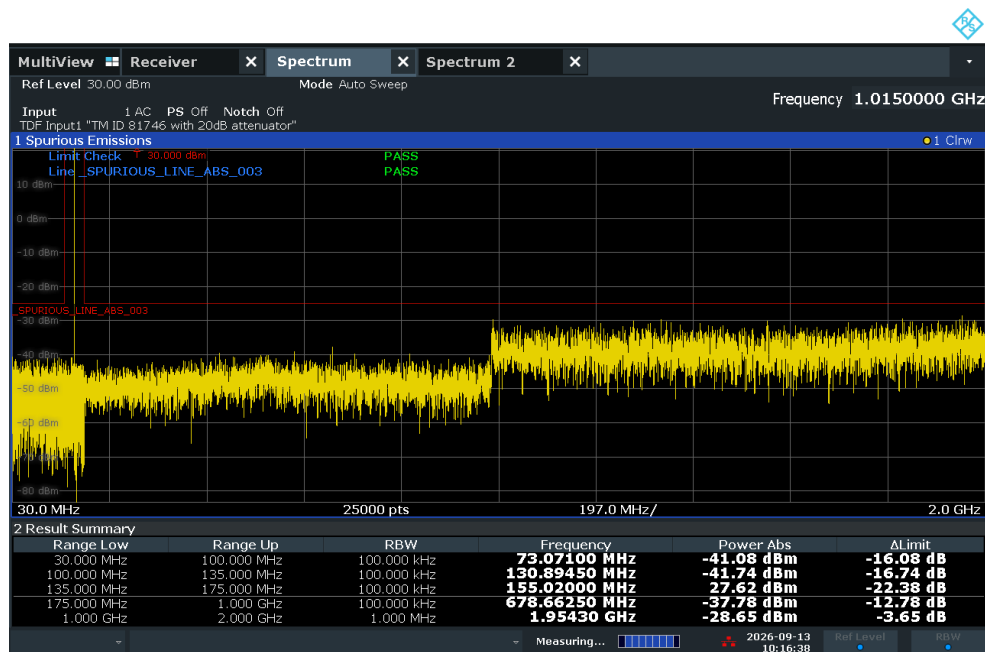
10:15:50 AM 09/13/2026

Channel 09 Wide



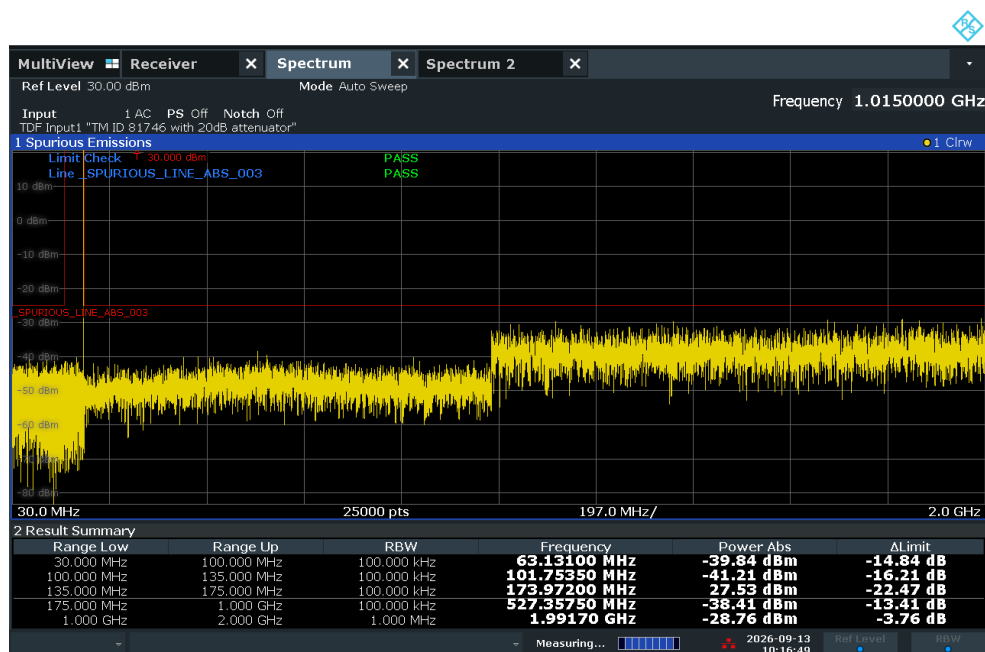
10:16:23 AM 09/13/2026

Channel 10 Wide



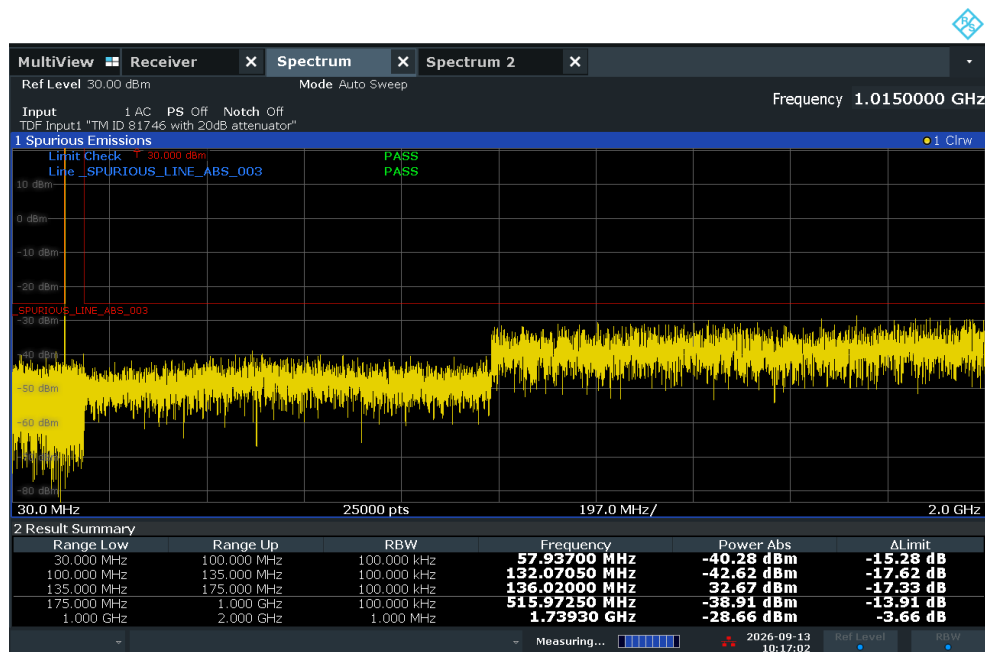
10:16:38 AM 09/13/2026

Channel 11 Wide



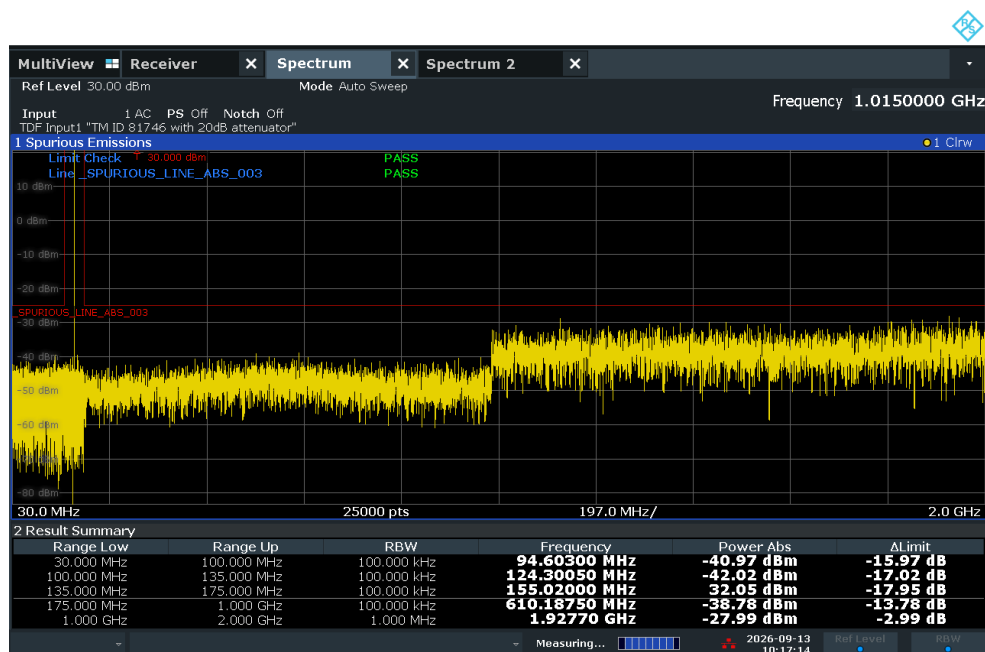
10:16:50 AM 09/13/2026

Channel 12 Wide



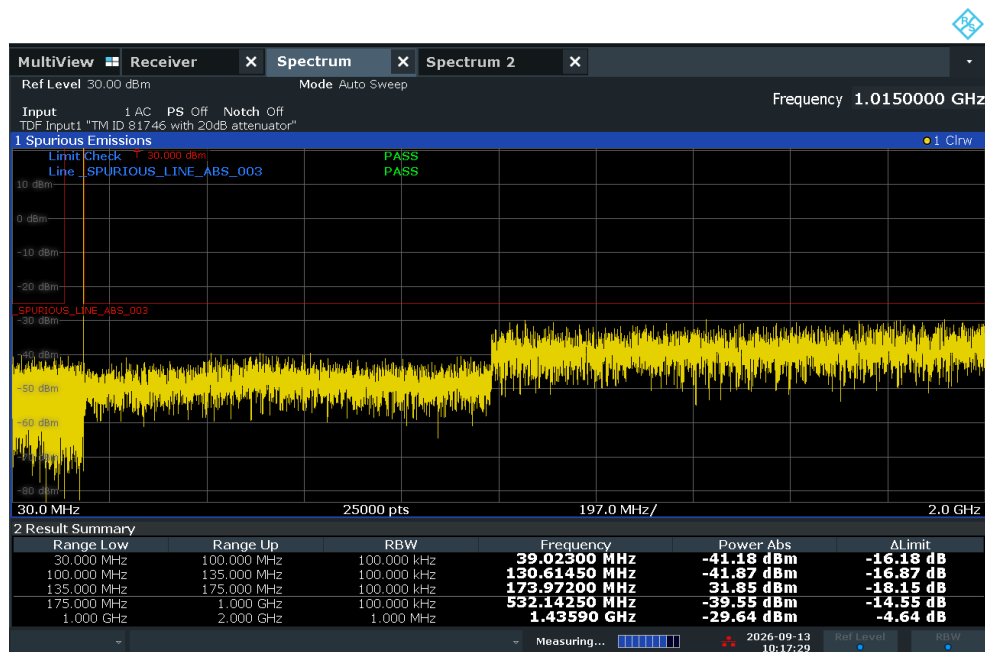
10:17:02 AM 09/13/2026

Channel 13 Digital Very Narrow



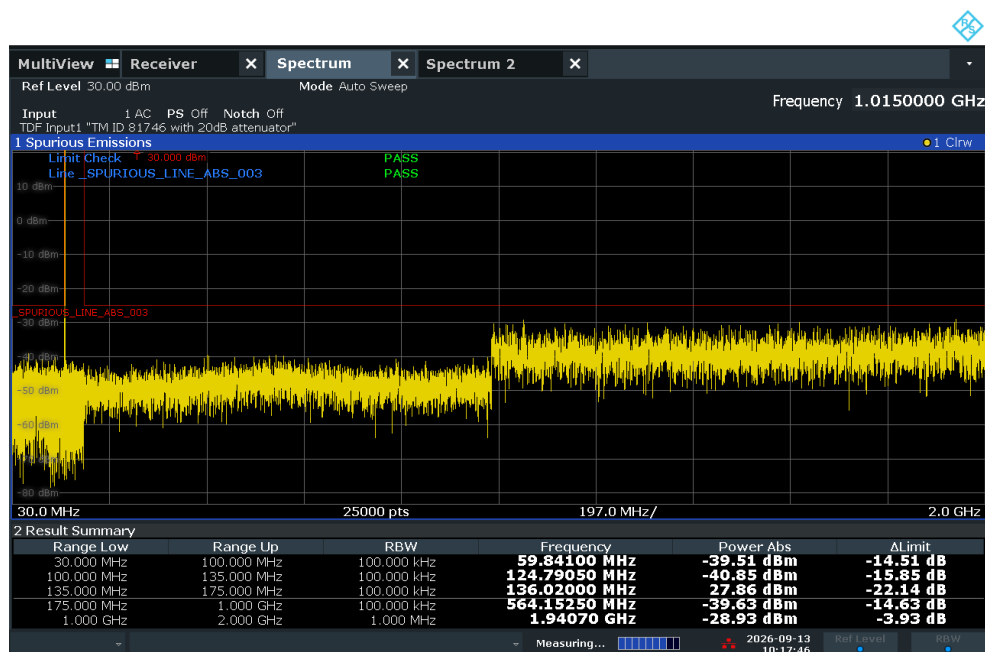
10:17:14 AM 09/13/2026

Channel 14 Digital Very Narrow



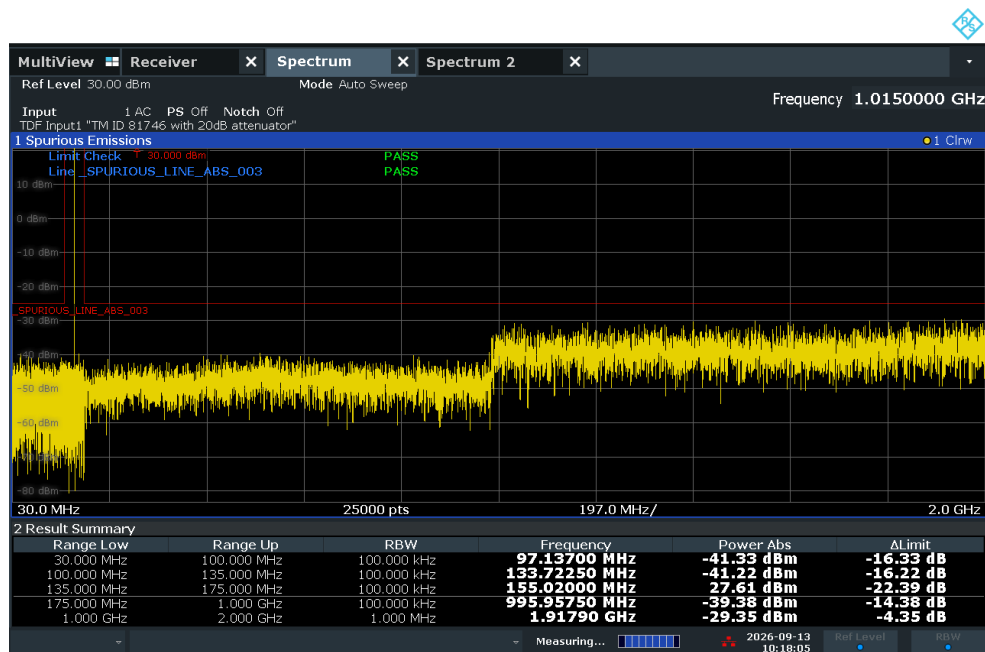
10:17:30 AM 09/13/2026

Channel 15 Digital Very Narrow



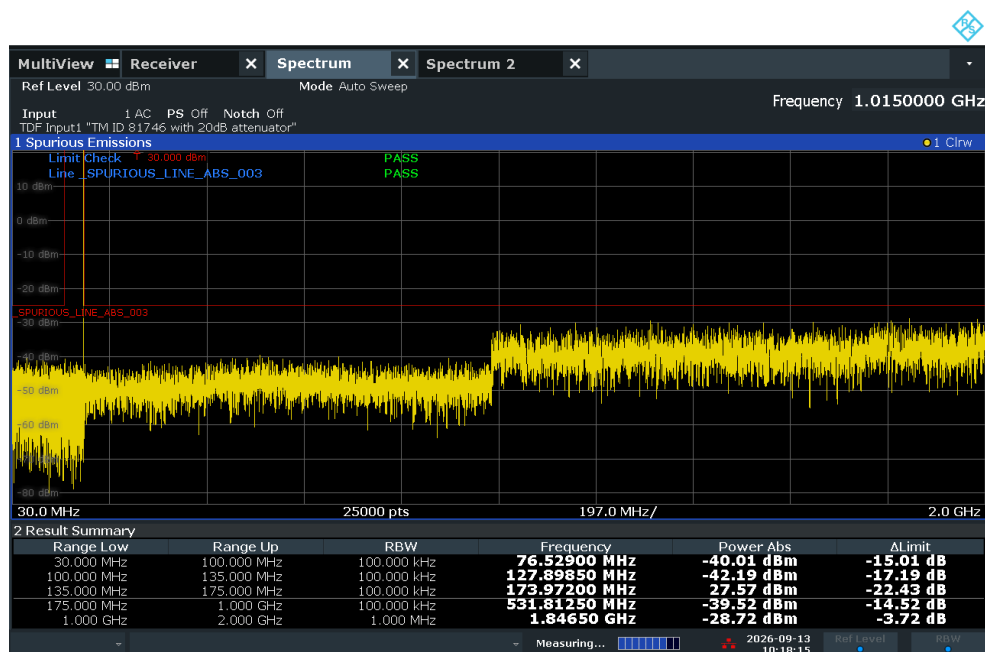
10:17:46 AM 09/13/2026

Channel 16 Digital Very Narrow



10:18:05 AM 09/13/2026

Channel 17 Digital Very Narrow



10:18:16 AM 09/13/2026

Channel 18 Digital Very Narrow



2.6 FIELD STRENGTH OF SPURIOUS RADIATION

2.6.1 Specification Reference

FCC CFR Title 47 Part 2.1053
FCC CFR Title 47 Part 22.359 (a)
FCC CFR Title 47 Part 80.211(f)(3)
FCC CFR Title 47 Part 90.210

2.6.2 Standard Applicable

FCC CFR Title 47 Part 22.359 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC CFR Title 47 Part 90.210 (e)(3)

Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log (P)$ or 65 dB, whichever is the lesser attenuation.

2.6.3 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.6.4 Date of Test/Initial of test personnel who performed the test

September 13, 2026 / FSC.

2.6.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.6.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	26.3 °C
Relative Humidity	53.5 %
ATM Pressure	99.9 kPa



2.6.7 Additional Observations

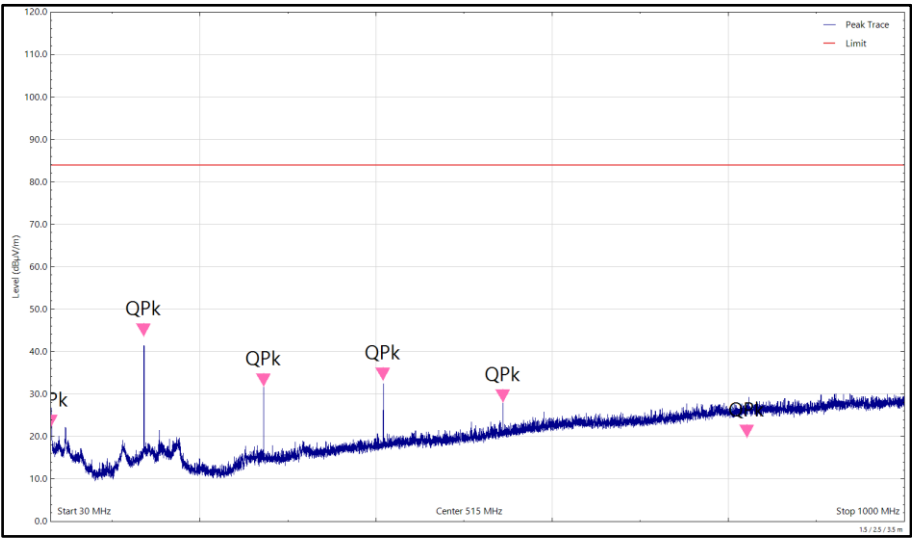
- This is a radiated test.
- Using Direct Field Strength method, limits are converted to field strength (dBμV/m at 3 meters)
- Limit presented is from attenuation limit of $43 + 10 \log (P)$ but all emissions are verified against the worst-case attenuation limit of $55 + 10 \log (P)$.
- Emissions from 30MHz to 8GHz are covered in this test.
- Emissions coming out from cabinet (cabinet spurious emissions were verified).
- Test method used is per ANSI C63.26, 2015 Edition, 2015 Section 5.5.
- The following channels were pre-screened as worst-case representatives for each operating mode: CH01, CH07, and CH13. No significant differences were observed in the emission profiles among the evaluated channels. Therefore, only CH13 is presented in this report, as it is subject to the most stringent applicable limit of -25 dBm
- Antenna port was terminated for this test. EUT is modulated under the conditions specified in paragraph (c) of § 2.1049.
- Test setup photos will be provided as a separate exhibit.

2.6.8 Test Results – Channel 13 136.025MHz Digital Very Narrow

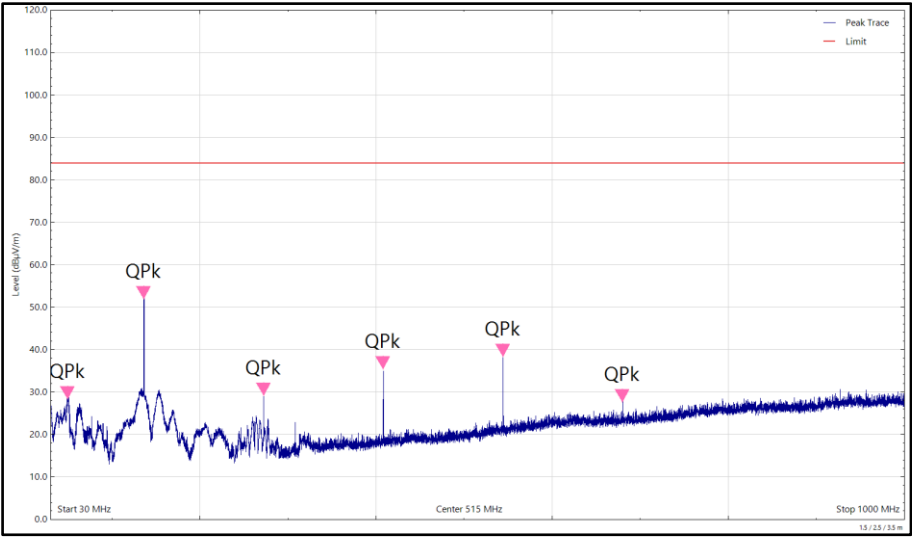
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.209	21.66	84.00	-62.34	Q-Peak	250	100	Horizontal
49.487	27.95	84.00	-56.05	Q-Peak	115	100	Vertical
136.027	43.17	84.00	-40.83	Q-Peak	122	132	Horizontal
136.027	51.47	84.00	-32.53	Q-Peak	356	126	Vertical
272.055	28.85	84.00	-55.15	Q-Peak	128	233	Vertical
272.056	31.49	84.00	-52.51	Q-Peak	15	132	Horizontal
408.069	35.01	84.00	-48.99	Q-Peak	164	123	Vertical
408.072	32.82	84.00	-51.18	Q-Peak	224	132	Horizontal
544.105	37.88	84.00	-46.12	Q-Peak	111	100	Vertical
544.117	27.68	84.00	-56.32	Q-Peak	3	112	Horizontal
680.134	27.29	84.00	-56.71	Q-Peak	181	100	Vertical
821.385	19.42	84.00	-64.58	Q-Peak	24	152	Horizontal

No other emissions found within 10 dB of the limit.

RSE, 30MHz-1GHz, 30 MHz to 1 GHz



RSE, 30MHz-1GHz, 30 MHz to 1 GHz, Horizontal (Peak)

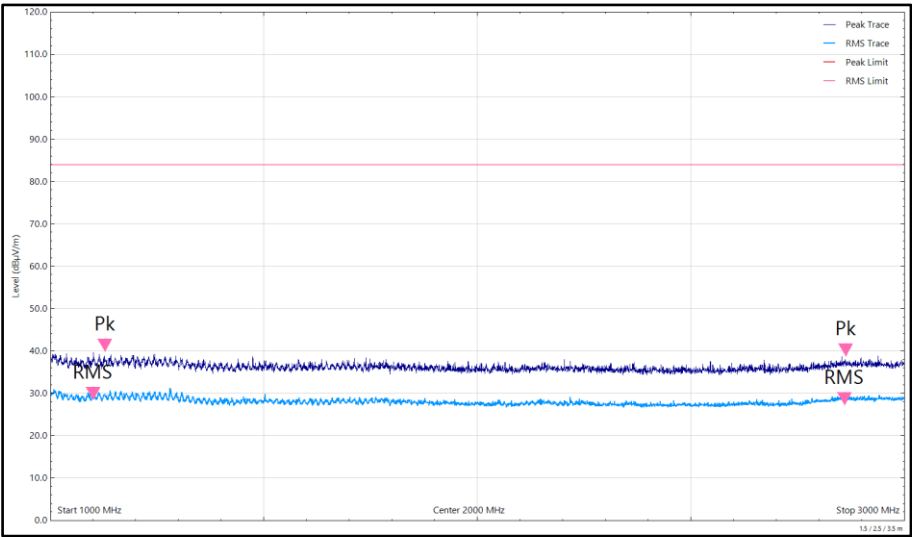


RSE, 30MHz-1GHz, 30 MHz to 1 GHz, Vertical (Peak)

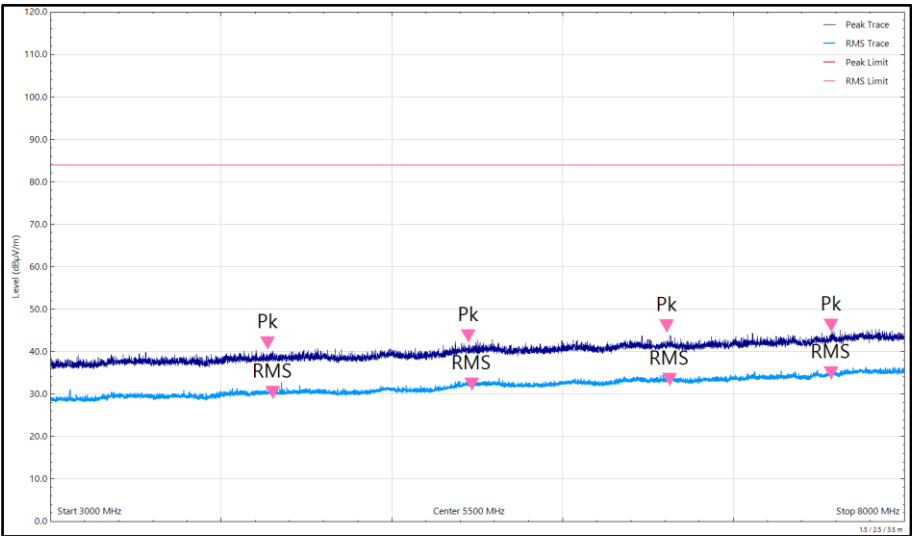
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1099.678	39.57	84.00	-44.43	Peak	231	102	Vertical
1100.168	27.87	84.00	-56.13	RMS	231	102	Vertical
1100.423	28.05	84.00	-55.95	RMS	47	235	Horizontal
1127.766	39.51	84.00	-44.49	Peak	47	235	Horizontal
2860.720	26.82	84.00	-57.18	RMS	180	112	Horizontal
2863.657	38.34	84.00	-45.66	Peak	180	112	Horizontal
2917.559	38.82	84.00	-45.18	Peak	290	164	Vertical
2954.343	26.79	84.00	-57.21	RMS	290	164	Vertical
4274.234	40.20	84.00	-43.80	Peak	344	190	Horizontal
4302.696	28.47	84.00	-55.53	RMS	344	190	Horizontal
4352.720	32.90	84.00	-51.10	RMS	333	108	Vertical
4352.930	40.99	84.00	-43.01	Peak	333	108	Vertical
5447.563	41.76	84.00	-42.24	Peak	336	153	Horizontal
5469.101	30.39	84.00	-53.61	RMS	336	153	Horizontal
6052.416	42.31	84.00	-41.69	Peak	340	102	Vertical
6062.766	30.97	84.00	-53.03	RMS	340	102	Vertical
6611.881	44.13	84.00	-39.87	Peak	339	102	Horizontal
6626.846	31.59	84.00	-52.41	RMS	339	102	Horizontal
7138.052	43.75	84.00	-40.25	Peak	131	282	Vertical
7164.556	32.02	84.00	-51.98	RMS	131	282	Vertical
7572.469	44.26	84.00	-39.74	Peak	268	132	Horizontal
7573.587	33.04	84.00	-50.96	RMS	268	132	Horizontal
7845.374	33.27	84.00	-50.73	RMS	295	108	Vertical
7855.794	45.08	84.00	-38.92	Peak	295	108	Vertical

No other emissions found within 10 dB of the limit.

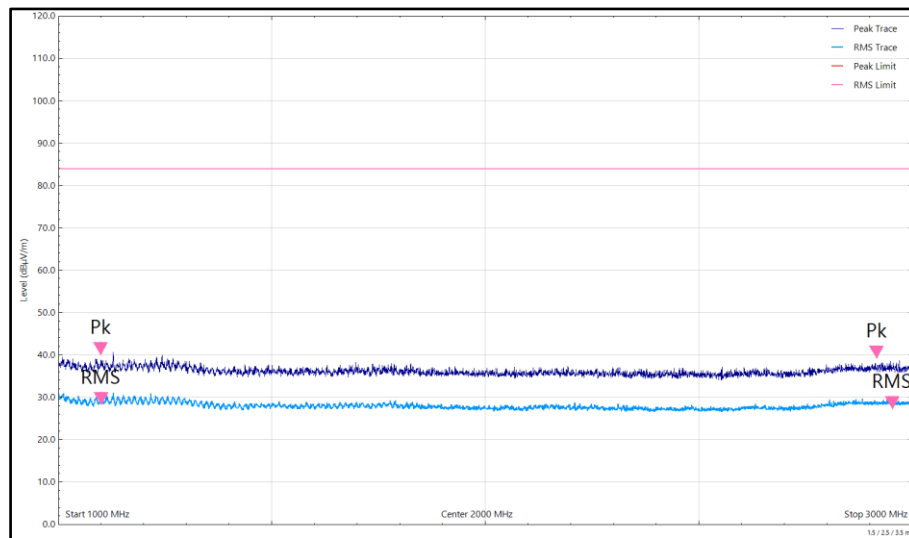
RSE, RSE, 1 to 8 GHz



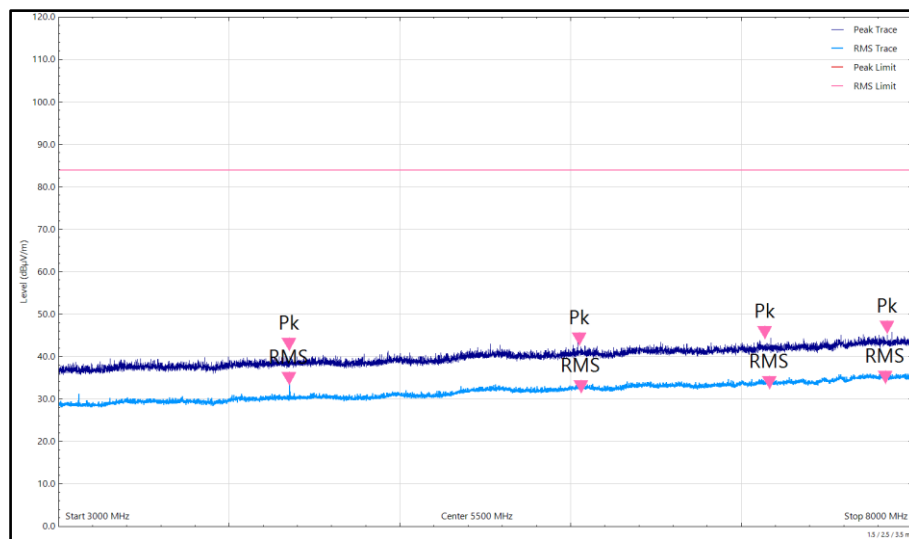
RSE, 1 to 8 GHz, 1 GHz to 3 GHz, Horizontal



RSE, 1 to 8 GHz, 3 GHz to 8 GHz, Horizontal



RSE, 1 to 8 GHz, 1 GHz to 3 GHz, Vertical



RSE, 1 to 8 GHz, 3 GHz to 8 GHz, Vertical

2.7 FREQUENCY STABILITY

2.7.1 Specification Reference

FCC CFR Title 47 Part 2.1055
FCC CFR Title 47 Part 22.355
FCC CFR Title 47 Part 74.464
FCC CFR Title 47 Part 80.209
FCC CFR Title 47 Part 90.219

2.7.2 Standard Applicable

Rule Part	Frequency Range	Station Requirement	Limit
§22.355	50 to 450 MHz	Mobile ≤3 watts	50 ppm
§74.464	30 to 300 MHz	3W or less	50 ppm
§80.209	156 to 162 MHz	Coast and Ship stations below 3W	10 ppm
§90.219	150 to 174 MHz	2W or less	50 ppm
	154.45 to 154.49 MHz		5 ppm
	173.2 to 173.4 MHz		5 ppm
	150 to 174 MHz	2W or less with 12.5kHz channel BW	5 ppm
	150 to 174 MHz	2W or less with 6.25kHz channel BW	2 ppm

Verification performed at the worst-case limit of 2 ppm. Digital Very Narrow will be used to represent 6.25kHz channel BW requirements.

2.7.3 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.7.4 Date of Test/Initial of test personnel who performed the test

September 04, 2026 / FSC.

2.7.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.7.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	25.6 °C
Relative Humidity	55.2 %
ATM Pressure	99.6 kPa



2.7.7 Additional Observations

- This is a conducted test and placed in a temperature chamber and operated over the specified temperature range.
- Temperature is varied from -20°C to 60°C at 10°C intervals.
- Only the worst-case channel with worst case limit presented.
- Test method used is per ANSI C63.26, 2015 Edition Section 5.6.
- Test setup photos will be provided as a separate exhibit.

2.7.8 Test Results 155.025MHz (Digital Very Narrow)

Channel 14 test results				
Temperature (°C)	Voltage	Frequency (MHz)	Results (ppm)	Limit Maximum (ppm)
60°C	Nominal (3.7 VDC)	155.0249732	0.49	2
50°C		155.0248667	-0.20	2
40°C		155.0250196	0.79	2
30°C		155.0249681	0.45	2
20°C		155.0248976	0.00	2
10°C		155.0249185	0.13	2
0°C		155.0249129	0.10	2
-10°C		155.0247561	-0.91	2
-20°C		155.0248320	-0.42	2
20°C	Battery End Point Voltage (3.15VDC)	155.0248975	0.00	2
	Battery Fully Charged Voltage (4.26 VDC)	155.0248988	0.01	2
EUT Complies . Battery End Point and Battery Full Charged voltages are declared by the manufacturer.				



2.8 TRANSIENT FREQUENCY BEHAVIOR

2.8.1 Specification Reference

FCC CFR Title 47 Part 90.214

2.8.2 Standard Applicable

FCC CFR Title 47 Part 90.214

Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Time Intervals	Maximum Frequency Difference	150 to 174 MHz Frequency Band
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels		
t_2	$\pm 12.5\text{kHz}$	20ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels		
t_2	$\pm 6.25\text{kHz}$	20ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels		
t_2	$\pm 3.125\text{kHz}$	20ms
If the transmitter carrier output power rating is 6 watts or less, t_1 and t_3 period frequency difference may be exceeded. The table above has been adapted from the original requirement and includes only the provisions applicable to the EUT under evaluation.		

2.8.3 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.8.4 Date of Test/Initial of test personnel who performed the test

September 19, 2026 and October 10, 2026 / FSC

2.8.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.8.6 Environmental Conditions/ Test Location

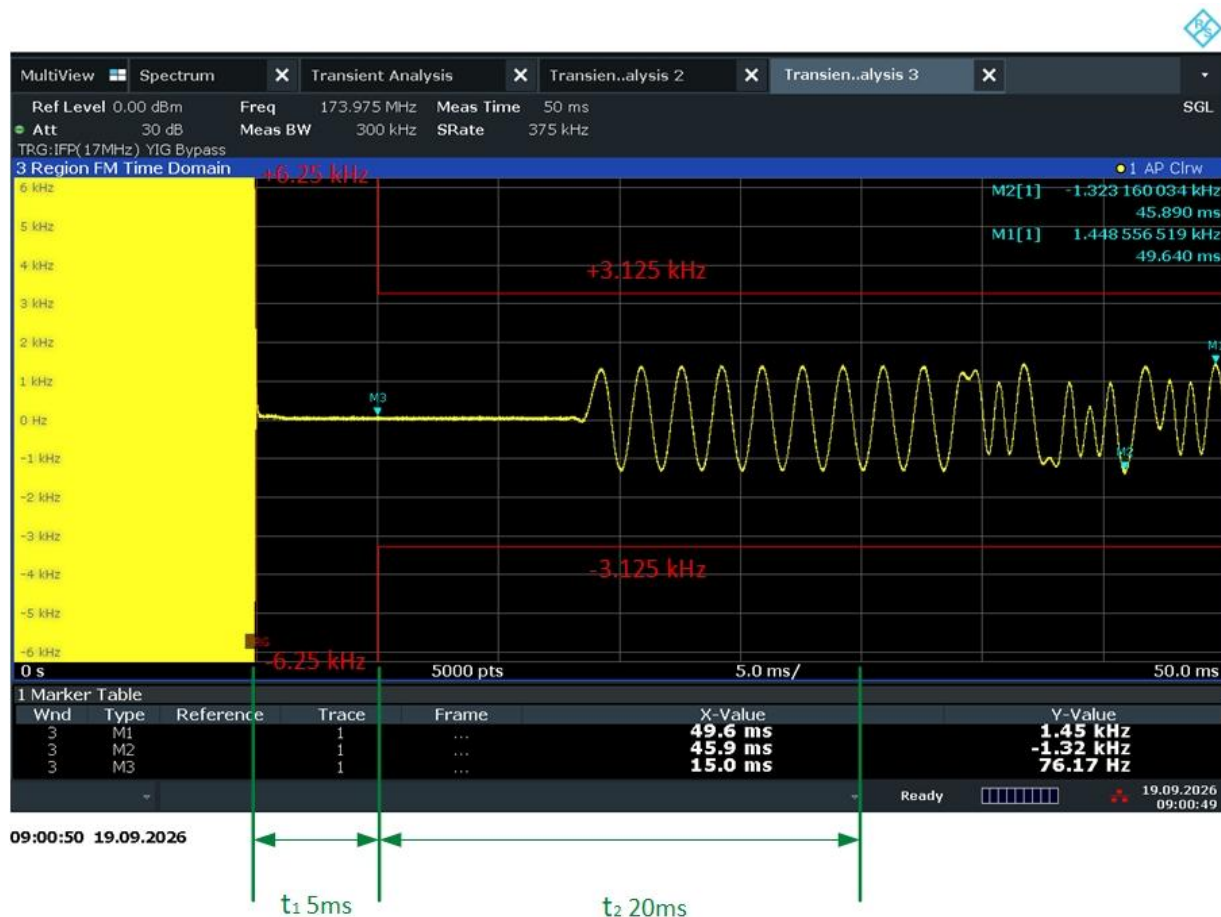
Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature 26.2 °C
Relative Humidity 49.7 %
ATM Pressure 99.9 kPa

2.8.7 Additional Observations

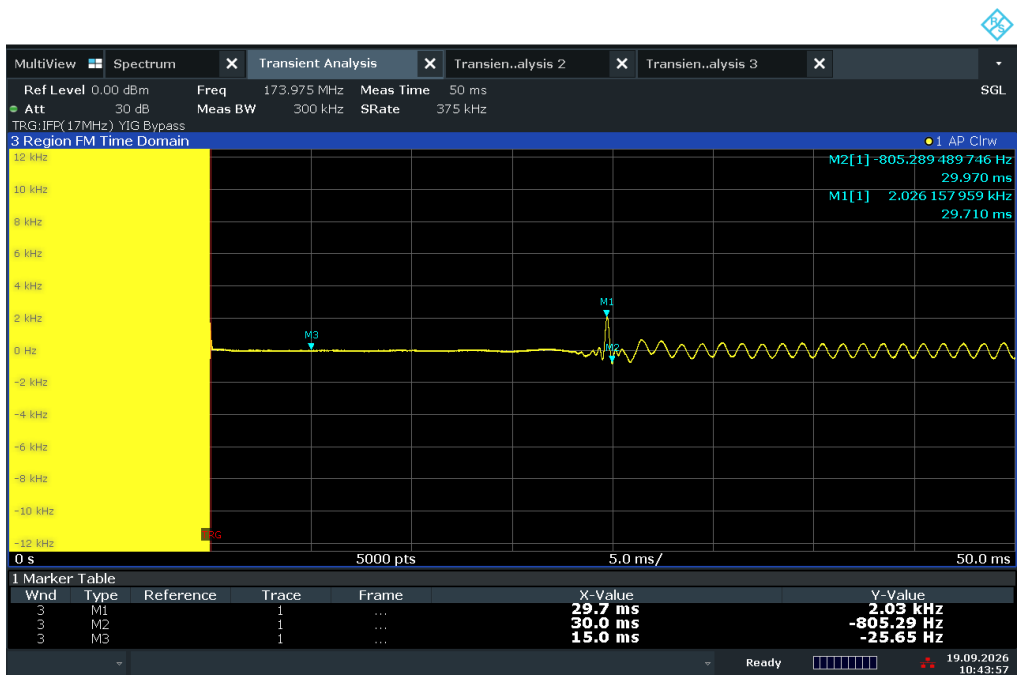
- This is a conducted test. The transient Analysis function of the Spectrum Analyzer is used for this test.
- Test was performed according to the guidance from ANSI TIA-603-F, March 2024 Section 2.2.19.
- t_3 frequency difference may be exceeded for EUT with output power rating of <6 watts, t_3 data is for reference only.
- Test setup photos will be provided as a separate exhibit.

2.8.8 Sample Analysis Plot (6.25 kHz Channel)



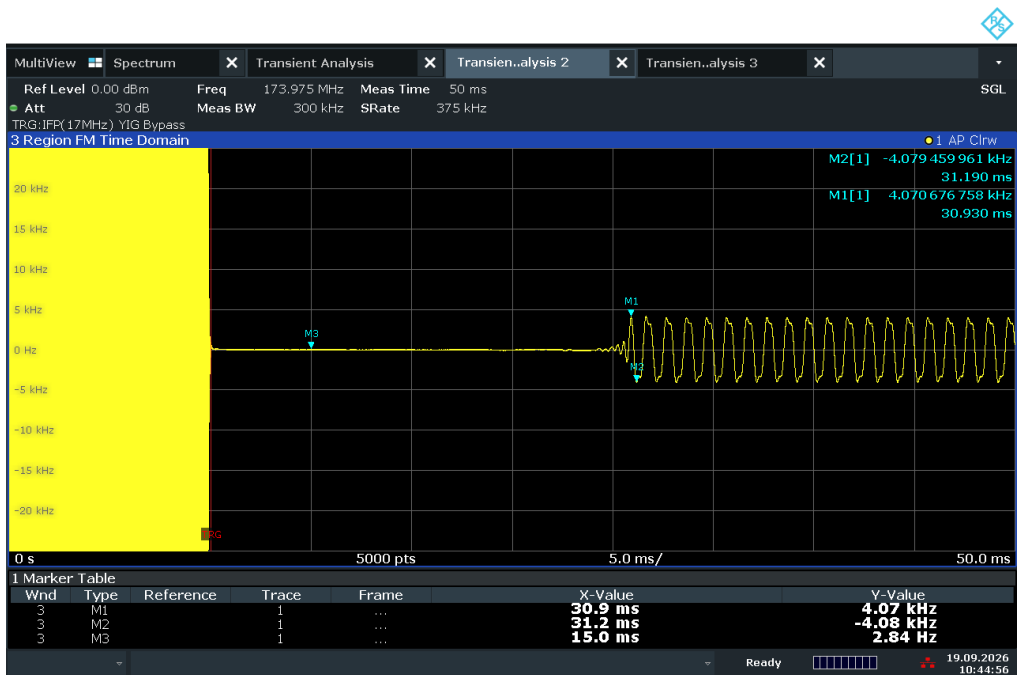


2.8.9 Test Results



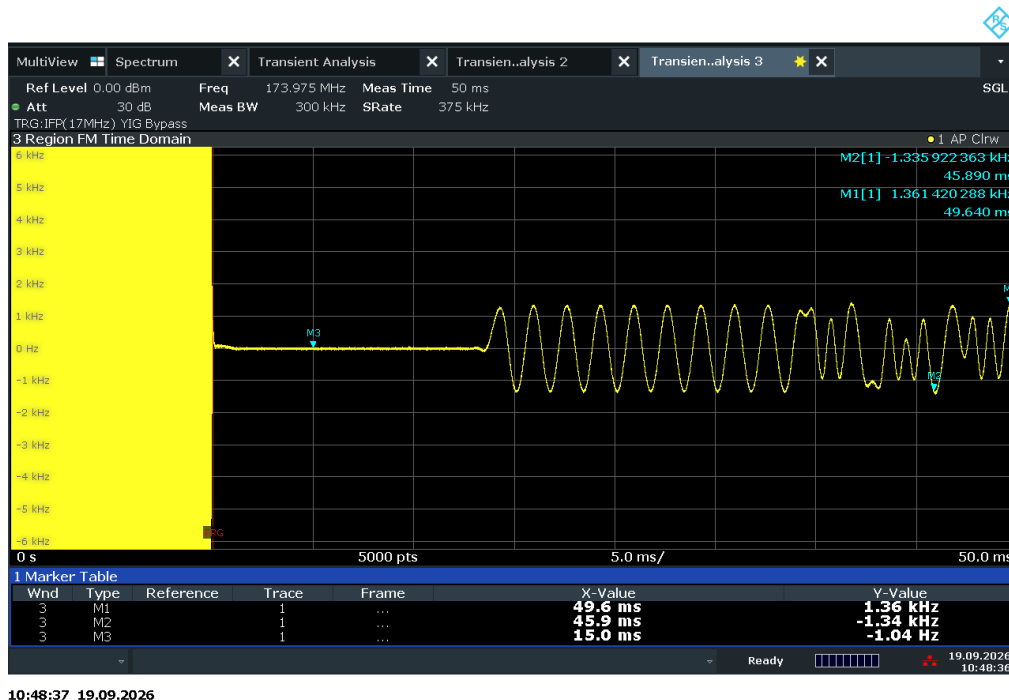
10:43:58 19.09.2026

12.5 kHz Channel Spacing



10:44:57 19.09.2026

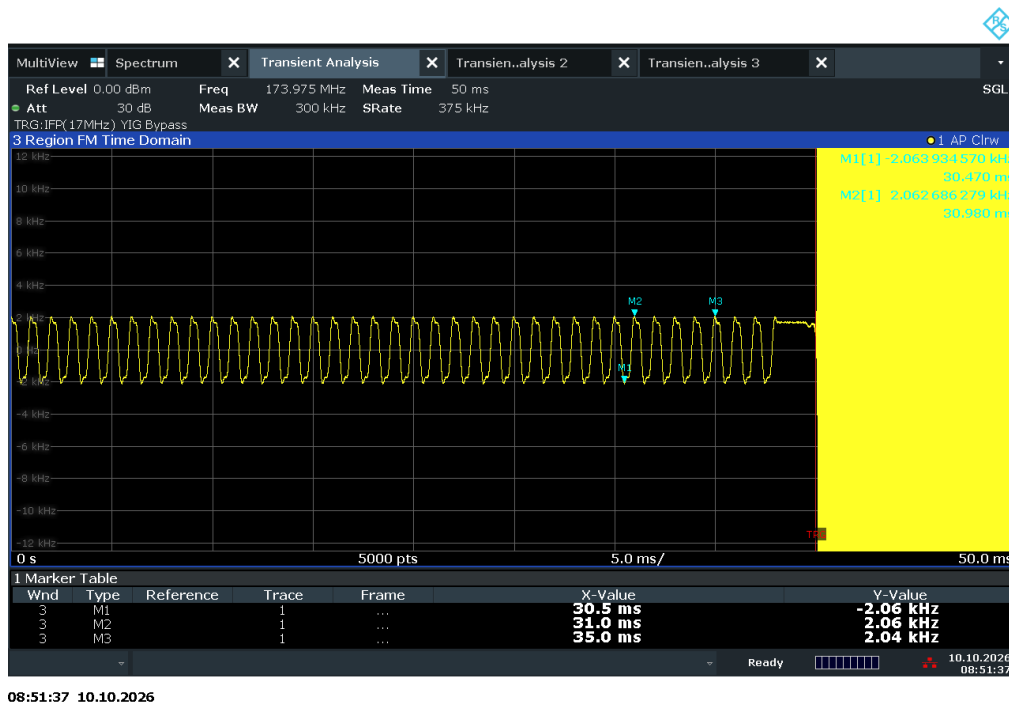
25 kHz Channel Spacing



10:48:37 19.09.2026

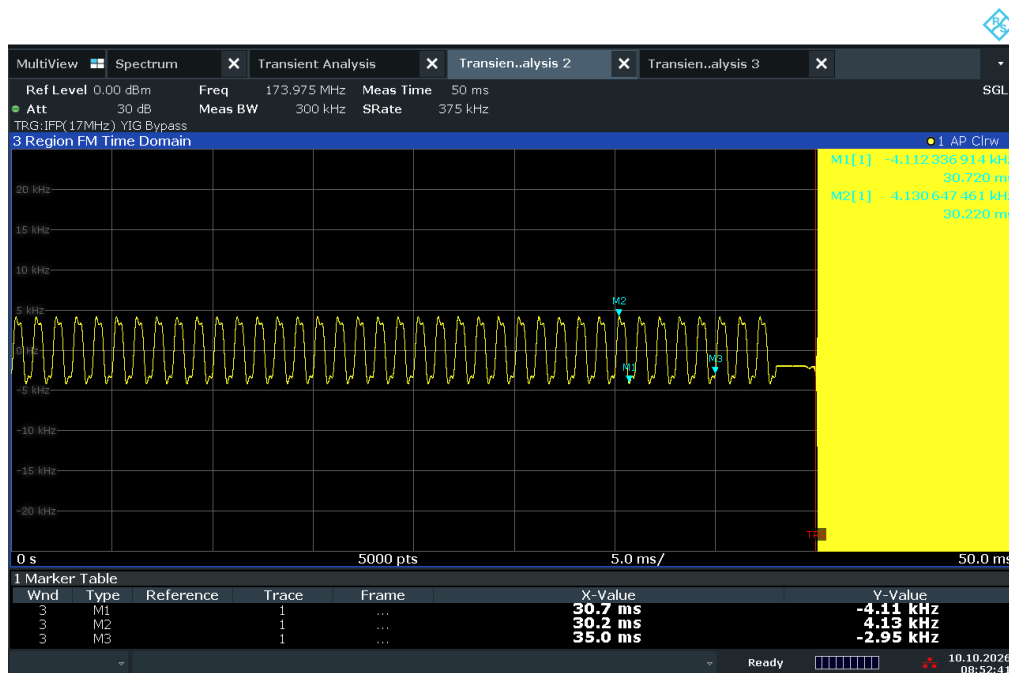
6.25 kHz Channel Spacing

2.8.10 Test Results (t₃ For Reference Only)



08:51:37 10.10.2026

12.5 kHz Channel Spacing



08:52:42 10.10.2026

25 kHz Channel Spacing



08:53:38 10.10.2026

6.25 kHz Channel Spacing

2.9 SUPPRESSION OF INTERFERENCE ABOARD SHIPS

2.9.1 Specification Reference

FCC CFR Title 47 Part 80.217

2.9.2 Standard Applicable

FCC CFR Title 47 Part 80.217 (f)(3)

(a) A voluntarily equipped ship station receiver must not cause harmful interference to any receiver required by statute or treaty.

(b) The electromagnetic field from receivers required by statute or treaty must not exceed the following value at a distance over sea water of one nautical mile from the receiver:

Frequency of interfering emissions	Field intensity in microvolts per meter
Below 30 MHz	0.1
30 to 100 MHz	0.3
100 to 300 MHz	1.0
Over 300 MHz	3.0

or deliver not more than the following amounts of power, to an artificial antenna having electrical characteristics equivalent to those of the average receiving antenna(s) use on shipboard:

Frequency of interfering emissions	Power to artificial antenna	
	μ W	dBm
Below 30 MHz	400	-3.98
30 to 100 MHz	4,000	6.02
100 to 300 MHz	40,000	16.02
Over 300 MHz	400,000	26.02

2.9.3 Equipment Under Test and Modification State

Serial No: 21000306 / Default Test Configuration

2.9.4 Date of Test/Initial of test personnel who performed the test

September 13, 2026 / FSC

2.9.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.



2.9.6 Environmental Conditions/ Test Location

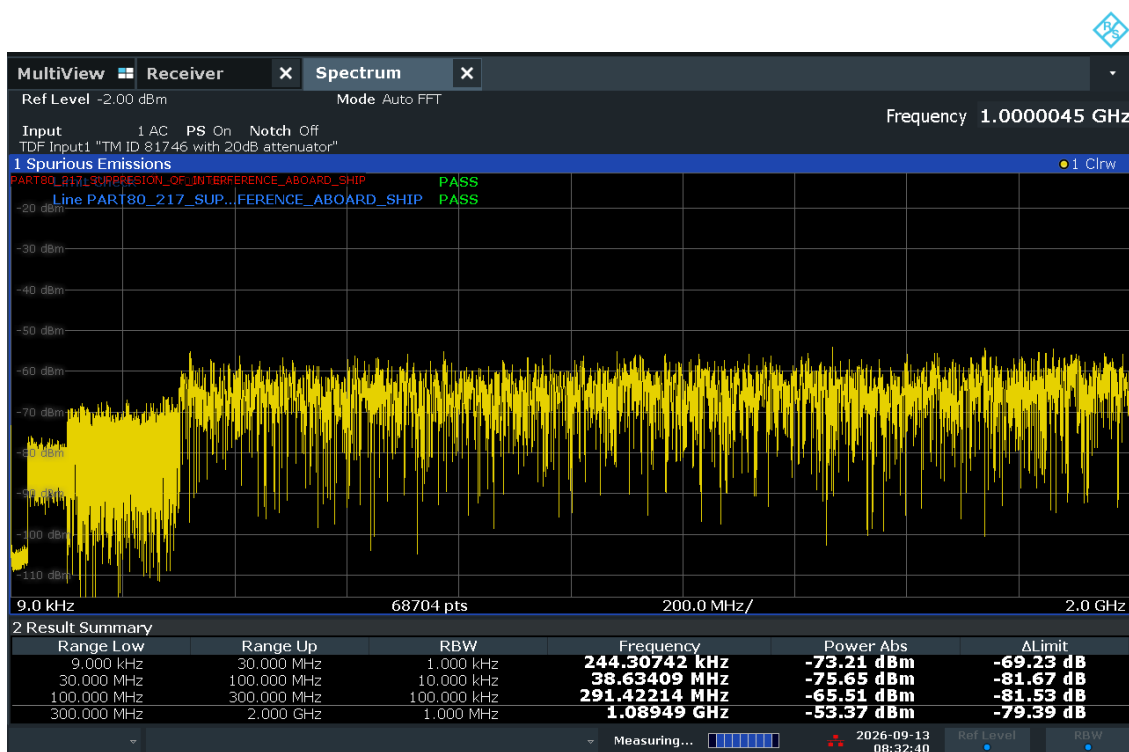
Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature 26.0 °C
Relative Humidity 51.2 %
ATM Pressure 99.9 kPa

2.9.7 Additional Observations

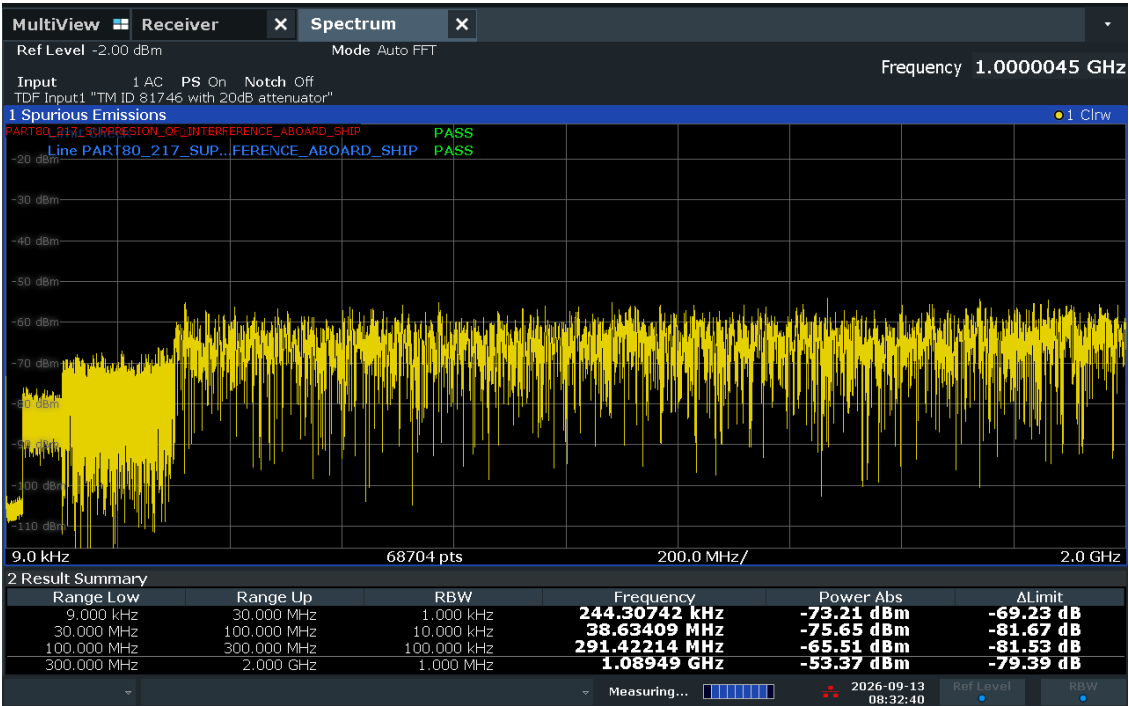
- This is a conducted test.
- The frequency range covered in this test is from 9 kHz to 2 GHz.
- Spurious Emissions function of the Spectrum Analyzer is used for this test.
- Only the mid channel of each high-power mode presented. There are no significant differences observed for every channel verified.
- Test was performed according to the guidance from ANSI C63.26, 2015 Edition, 2015 Section 5.7.
- Test setup photos will be provided as a separate exhibit.

2.9.8 Test Results



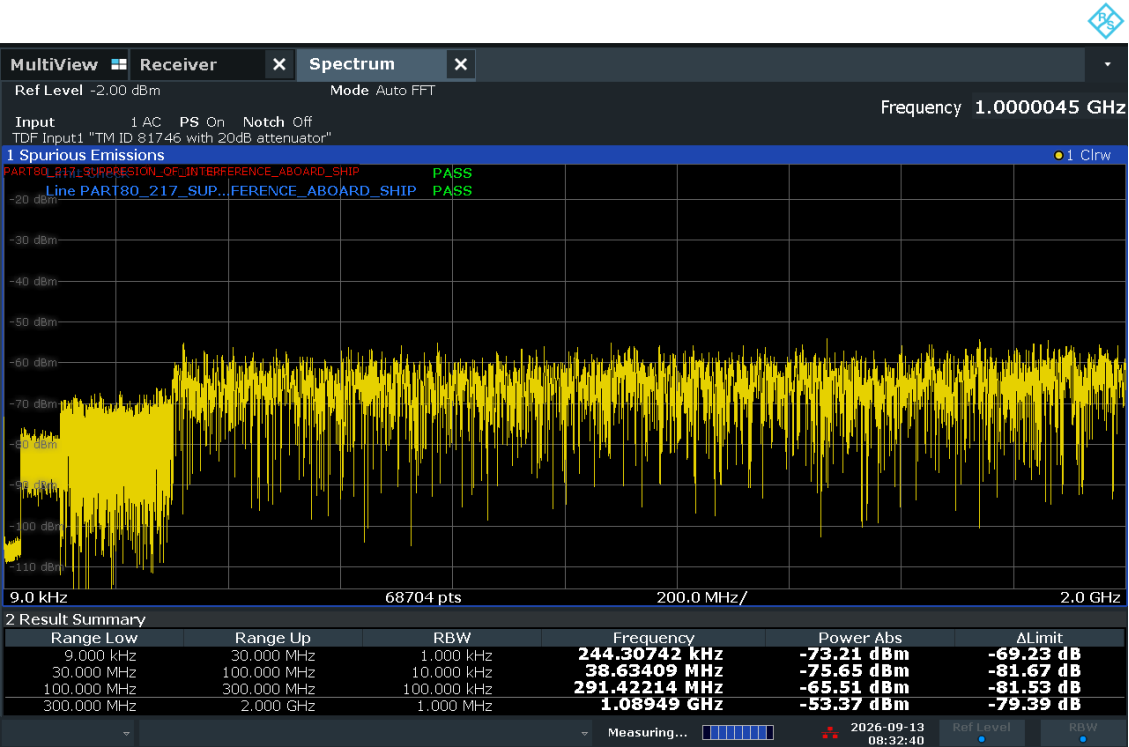
08:32:41 AM 09/13/2026

Channel 2 Narrow



08:32:41 AM 09/13/2026

Channel 8 Wide



08:32:41 AM 09/13/2026

Channel 14 Digital Very Narrow



SECTION 3

3 TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No	TM-ID	Calibration Period	Calibration Expires
Transmitter Power					
Pulse Wireless Power Head	DARE	RPR3006W	30206	1 year	07-Nov-2026
N-Type Attenuator, 30dB	RF Precisions Cables	ATX3396-30	30474	2 years	08-May-2028
10dB Attenuator	RF Precisions Cables	ATX3396-10	30504	2 years	08-May-2028
Audio Analyzer	Rohde & Schwarz	UPV	39205	2 years	29-July-2028
OBW Emissions Mask / Spurious Emissions at Antenna Port / Suppression of Interference Aboard Ships					
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW26	30188	1 year	20-Feb-2027
N-Type Attenuator, 30dB	RF Precisions Cables	ATX3396-30	30474	2 years	08-May-2028
10dB Attenuator	RF Precisions Cables	ATX3396-10	30504	2 years	08-May-2028
Audio Analyzer	Rohde & Schwarz	UPV	39205	2 years	29-July-2028
Frequency Stability					
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW26	30188	1 year	20-Feb-2027
N-Type Attenuator, 30dB	RF Precisions Cables	ATX3396-30	30474	2 years	08-May-2028
10dB Attenuator	RF Precisions Cables	ATX3396-10	30504	2 years	08-May-2028
Environmental Chamber	Espec	ESL-4CA	47031	1 year	27-Jan-2027
Field Strength of Spurious Emissions					
EMI Test Receiver	Rohde & Schwarz	ESW44	68302	1 year	17-Feb-2027
BiConiLog Antenna	ETS Lindgren	3142C	31446	1 year	24-Nov-2026
1-10 GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	2 years	16-Dec-2027
TUV SSU 010 PLC US	TUV SUD UK	TUV SSU 010 PLC US	74136	1 year	04-April-2027

Audio Frequency Response / Modulation Characteristics and Modulation Limits					
Signal & Spectrum Analyzer (AM/FM/PM Modulation Analysis)	Rohde & Schwarz	FSW26	30188	1 year	20-Feb-2027
N-Type Attenuator, 30dB	RF Precisions Cables	ATX3396-30	30474	2 years	08-May-2028
10dB Attenuator	RF Precisions Cables	ATX3396-10	30504	2 years	08-May-2028
Audio Analyzer	Rohde & Schwarz	UPV	39205	2 years	29-July-2028
Miscellaneous					
DC Power Supply	Xantrex	HPD-60-5	28078	-	NCR
True RMS Multimeter	Fluke	85 III	43003	1 year	07-Oct-2026
Barometric Pressure/Humidity/ Temp.	Extech Instruments	SD700	68516	1 year	31-Jul-2027
DC Power Supply	NANKADF	WPS3010H	-	-	NCR

NCR: NO Calibration Required.

3.2 MEASUREMENT UNCERTAINTY

Calculation of Measurement Uncertainty per CISPR 16-4-2:2011 with Corr. 1

3.2.1 Radiated Emission Measurements (30MHz to 1GHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.58 dB	Normal, k=2	2.000	0.29	0.08
4	Receiver sinewave accuracy	0.15 dB	Normal, k=2	2.000	0.08	0.01
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarization	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.99 dB	Triangular	2.449	1.63	2.65
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.57 dB	Rectangular	1.732	0.33	0.11
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.97	dB	
Expanded uncertainty			Normal, k=2	5.94	dB	

3.2.2 Radiated Emission Measurements (Above 1GHz)

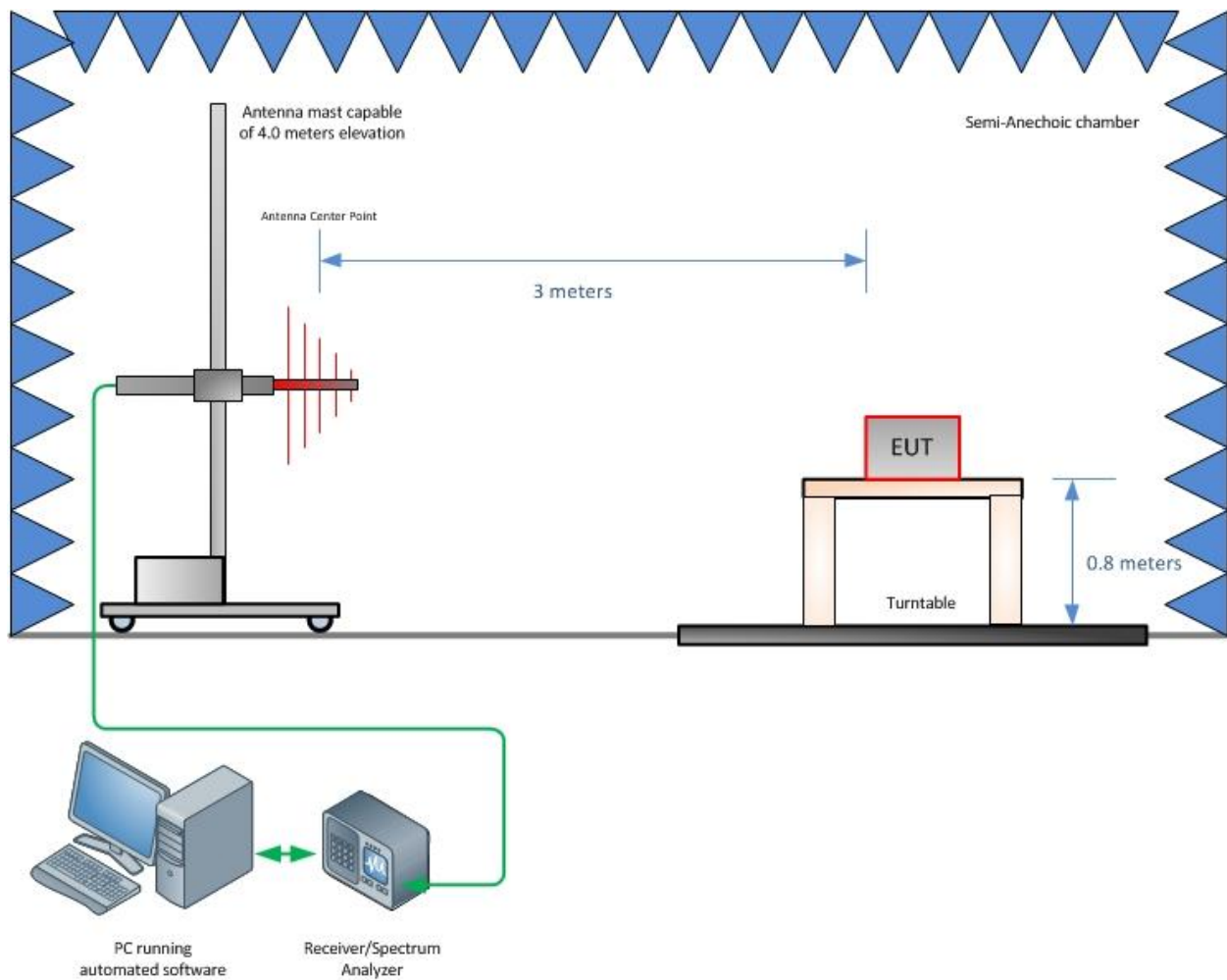
	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.30 dB	Normal, k=2	2.000	0.15	0.02
3	Preamplifier Gain	0.20 dB	Normal, k=2	2.000	0.10	0.01
4	Antenna factor AF	0.47 dB	Normal, k=2	2.000	0.24	0.06
5	Sinewave accuracy	0.15 dB	Normal, k=2	2.000	0.08	0.01
6	Instability of preamp gain	1.21 dB	Rectangular	1.732	0.70	0.49
7	Noise floor proximity	0.70 dB	Rectangular	1.732	0.40	0.16
8	Mismatch: antenna-preamplifier	1.41 dB	U-shaped	1.414	1.00	0.99
9	Mismatch: preamplifier-receiver	1.30 dB	U-shaped	1.414	0.92	0.85
10	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
11	Directivity difference at 3 m	1.50 dB	Rectangular	1.732	0.87	0.75
12	Phase center location at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Site imperfections VSWR (Method 2)	5.53 dB	Triangular	2.000	4.89	1.13
15	Effect of setup table material	1.57 dB	Rectangular	1.732	0.91	0.82
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Table height at 3 m	0.00 dB	Normal, k=2	2.000	0.00	0.00
Combined standard uncertainty				Normal	2.38 dB	
Expanded uncertainty				Normal, k=2	4.76 dB	



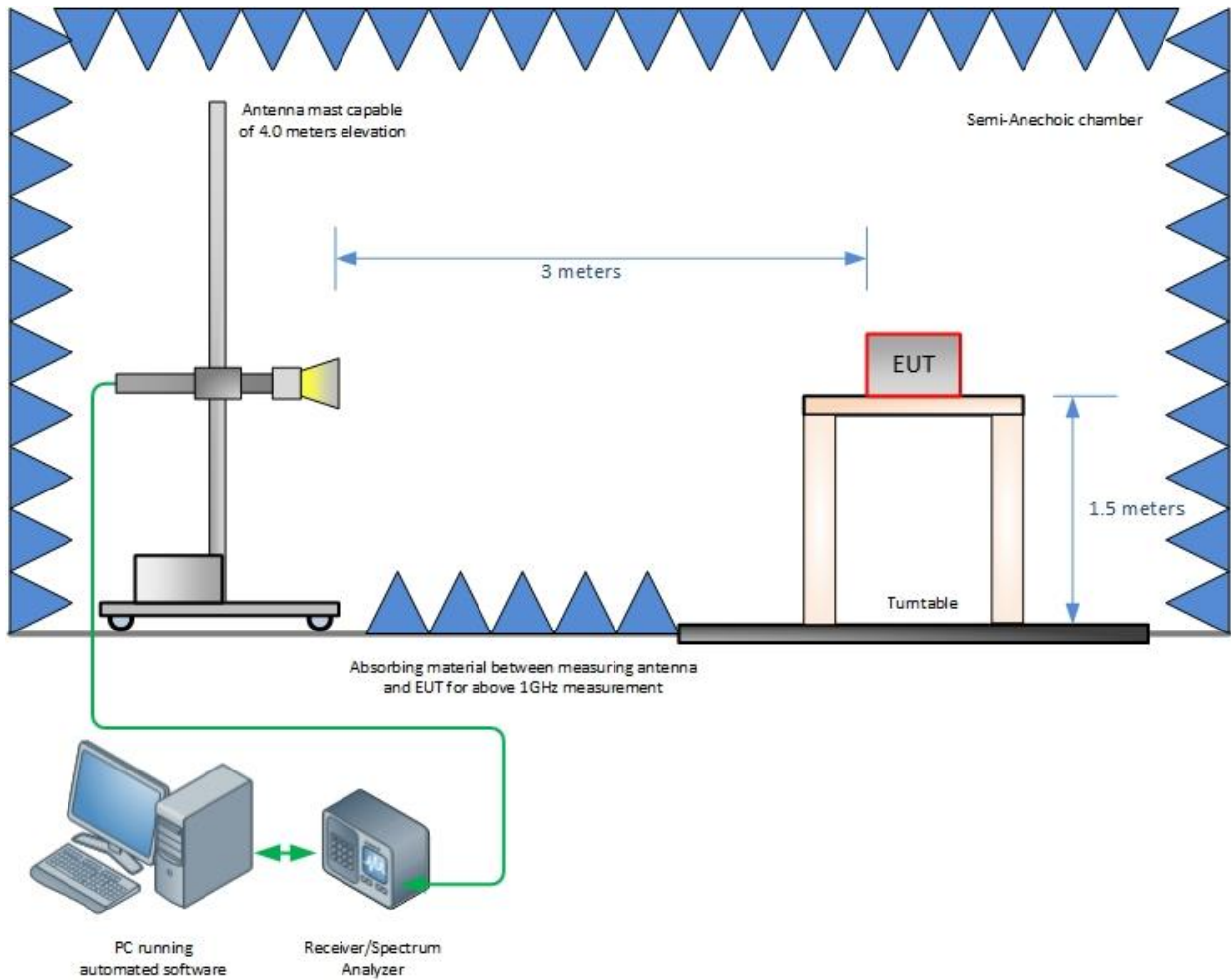
SECTION 4

4 DIAGRAM OF TEST SETUP

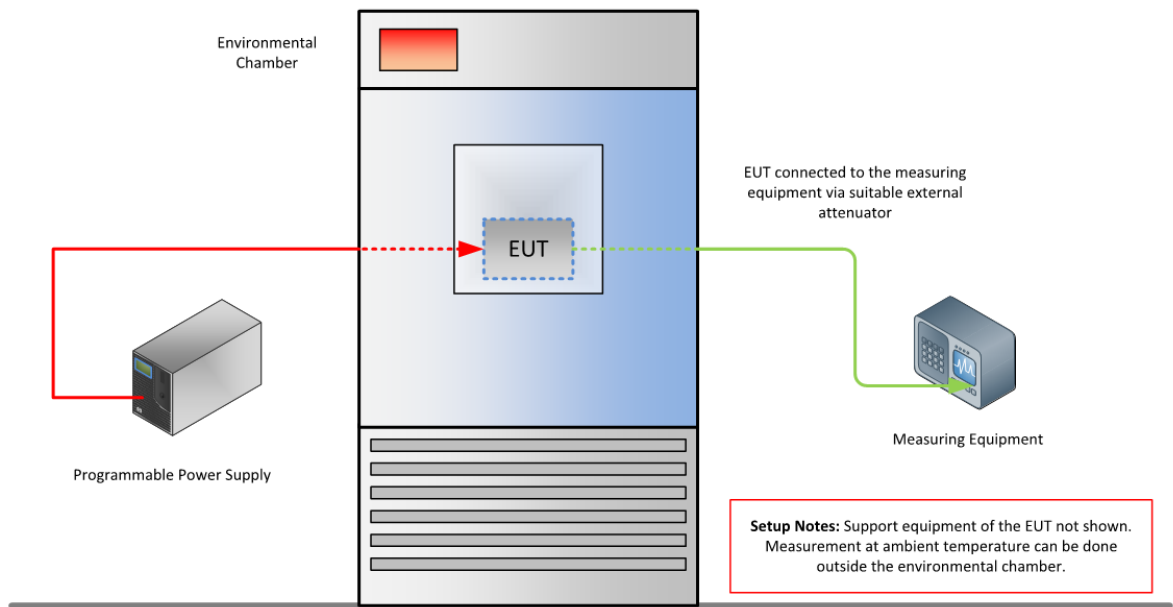
4.1 TEST SETUP DIAGRAM



Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



Frequency Stability



SECTION 5

5 ACCREDITATION DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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