

SENSUS METERING SYSTEMS INC. **TEST REPORT**

SCOPE OF WORK

RADIO TESTING –525M SMARTPOINT

REPORT NUMBER

106310015ATL-001

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RADIO TEST REPORT**Report Number:** 106310015ATL-001**Project Number:** G106310015**Report Issue Date:** 18 February 2026**PMN:** 525M**Model/HVIN:** 525M**FCC ID:** SDBWFL3**IC:** 2220A-WFL3

Standards: 47 CFR Part 24 Subpart D
47 CFR Part 101 Subpart C
RSS-119, Issue 12
RSS-134, Issue 2
ANSI C63.26-2015
RSS-GEN, Issue 5

Test Location

Intertek
1950 Evergreen Blvd., Suite 100
Duluth, GA 30096 USA
FCC Designation: US1046
ISED CAB Designator: US0128
ISO 17025 A2LA Accreditation: 1455.01

Client

Sensus Metering Systems Inc.
639 Davis Drive
Morrisville, NC 27560 USA

Report prepared by



Jeremy Pickens / Senior Staff Engineer

Report reviewed by



Michael Carlson / Staff Engineer

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1 Introduction and Conclusion

The tests indicated in Section 2 were performed on the product constructed as described in Section 4. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test Description	Test Specification		Result
		FCC Rule Part	ISED RSS	
6	RF Output Power	2.1046 24.132 101.113(a)	RSS-GEN S6.12 RSS-119 S5.4 RSS-134 S4.3(a),(b)	Compliant
7	Out of Band Unwanted Emissions	2.1051 24.133(a)(1),(2) 101.111(a)(5) 101.111(a)(6)	RSS-Gen S6.13 RSS-119 S5.8.3 RSS-119 S5.8.6 RSS-134 S4.4	Compliant
8	Occupied Bandwidth	2.1049 101.109 24.131	RSS-GEN S6.7 RSS-119 S5.5 RSS-134 S4.1	Compliant
9	Spurious Emissions at Antenna Terminals	2.1051 24.133(a)(1),(2) 101.111(a)(5) 101.111(a)(6)	RSS-Gen S6.13 RSS-119 S5.8.3 RSS-119 S5.8.6 RSS-134 S4.4	Compliant
10	Field Strength of Spurious Emissions	2.1053 24.133(a)(1),(2) 101.111(a)(5) 101.111(a)(6)	RSS-Gen S6.13 RSS-119 S5.8.3 RSS-119 S5.8.6 RSS-134 S4.4	Compliant
NA	Frequency Stability	2.1055 24.135 101.107	RSS-GEN S6.11 RSS-119 S5.3 RSS-134 S4.5	Compliant

3 Client Information

This evaluation was performed at the request of:

Client: Sensus Metering Systems Inc.
639 Davis Drive
Morrisville, NC 27560 USA

Contact: Tyler Leeson

Email: Tyler.Leeson@xylem.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: Sensus Metering Systems Inc.
639 Davis Drive
Morrisville, NC 27560 USA

Equipment Under Test			
Description	Manufacturer	Model Number (HVIN)	Serial Number
Transceiver Module	Sensus Metering Systems Inc.	525M	125852710 ¹ 125852716 ² 125852916 ³

- 1) KDS TCXO (Conducted - output power, conducted spurious emissions, and frequency stability)
- 2) Interquip TCXO (Conducted – All tests)
- 3) Interquip TCXO (Radiated Measurements)

Receive Date:	03 September 2025
Received Condition:	Good
Type:	Production

Description of Equipment Under Test

The equipment under test was the 525M SmartPoint that incorporates a Sensus FLEXNET 900MHz transceiver, a sub-GHz 902-928MHz DTS transceiver, and a Cat M / NBIoT cellular modem. The device does not support simultaneous transmission among the radios.

The SmartPoint® 525M pit set module is a radio transceiver designed for use in submersible, pit set environments. With true two-way communication ability, it serves as a walk-by end point, drive-by end point, fixed-base end point or any combination of those. This versatility gives you highly flexible data collection options and simplifies both current operations and network evolution.

Certification Purpose

This test report is to support the original certification of the Flexnet radio with both TCXO options. Testing related to the sub-GHz radio and the cellular radio are documented in separate test reports.

Equipment Under Test Power Configuration

Rated Voltage	Rated Current	Rated Frequency	Number of Phases
3.65Vdc	1.1A	NA	NA

Operating modes of the EUT

No.	Descriptions of EUT Exercising
1	Using FieldLogic NAMU software, commands were sent over USB and then over the air via an NFC Smart Card Reader. The EUT was configured to transmit modulated signals at max power with a 100% duty-cycle at the following defined test channels (per 47CFR 2.1046 – 2.1057). Both TCXO options were evaluated for conducted output power, conducted spurious emissions, and frequency stability. The worst case TCXO with regards to power was used for the remaining tests (Interquip).

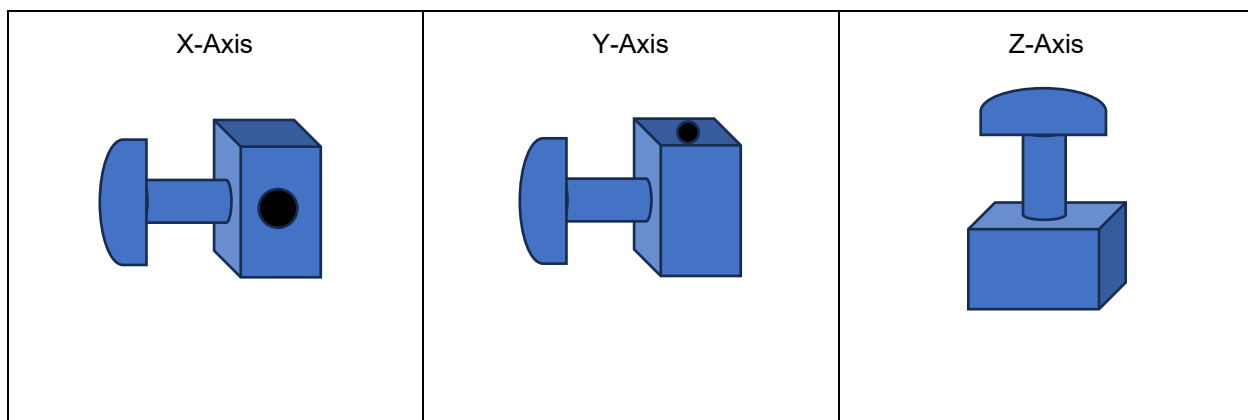
Test Channels				
FCC Rule Part	ISED RSS	Frequency Band (MHz)	Channel Location	Test Frequency (MHz)
24D	RSS-134	901.0 – 902.0	Middle	901.5
101	RSS-119	928.85 – 929.0	Middle	928.925
24D	RSS-134	930.0 – 931.0	Middle	930.5
101	RSS-119	932.0 – 932.5	Middle	932.25
24D	RSS-134	940.0 – 941.0	One near top and one near bottom	940.0125
101	RSS-119	941.0 – 941.5		941.4875
101	RSS-119	952.0 – 953.0	Middle	952.5
101	RSS-119	959.85 – 960.0	Middle	959.925

Software used by the EUT

No.	Description of Control Software
1	FieldLogic NAMU 2.4.34.14

Radio/Receiver Characteristics	
Frequency Range	901-960MHz
Modulation Type(s)	7-FSK, 13-FSK, 2-GFSK, 2-SFSK, 4-SFSK, 8-SFSK
Maximum Output Power (Conducted):	30.0dBm (1.0W)
Power Setting	Max
MIMO Information (# of Transmit and Receive antenna ports)	1 (SISO)
Equipment Type	Full Module
Antenna Type and Gain	PCB Patch Antenna (+0.3dBi)
TCXO 1	Interquip, P/N: TC950-39.000-YTGKD
TCXO 2	KDS, P/N: 7EF03900A06

Note: The worst-case modulations for radiated and conducted spurious emissions were determined to be Normal and mPass 5k. The worst-case orientation for radiated field strength measurements was the Y-Axis.



Emissions Designators				
Frequency (MHz)	Rule Part / RSS	Mode	Designator	Modulation
901-902 928.85-929.0 932-932.5	24D / RSS-134 101 / RSS-119 101 / RSS-119	Normal	9K60F2D	7-FSK
		Double Density	9K60F2D	13-FSK
		C&I (Half Baud)	4K80F2D	7-FSK
		2SFSK (Half Baud)	5K00F1D	2-SFSK
		4SFSK (Half Baud)	5K60F1D	4-SFSK
		8SFSK (Half Baud)	5K90F1D	8-SFSK
		2SFSK (1/8 Baud)	1K30F1D	2-SFSK
		2SFSK	10K0F1D	2-SFSK
		4SFSK	11K3F1D	4-SFSK
		8SFSK	11K9F1D	8-SFSK
		Boost	1K10F2D	7-FSK
930.0 - 931.0 940.0 - 941.0 941.0 - 941.5 952.0 - 953.0 959.85 - 960.0	24D / RSS-134 24D / RSS-134 101 / RSS-119 RSS-119 101	MPass (5kbps)	5K90F1D	2-GFSK
		MPass (10kbps)	11K8F1D	2-GFSK

5 System Setup and Method

Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
1	DC Power	10.0	None	None	DC Power Supply

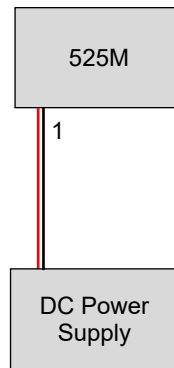
System Configuration			
Description	Manufacturer	Model Number	Serial Number
Transceiver Module	Sensus Metering Systems Inc.	525M	125852710 ¹ 125852716 ² 125852916 ³
DC Power Supply	Kikusui	PAS 60-18	ML000349

- 1) KDS TCXO – Conducted Measurements
- 2) Interquip TCXO – Conducted Measurements
- 3) Interquip TCXO – Radiated Measurements

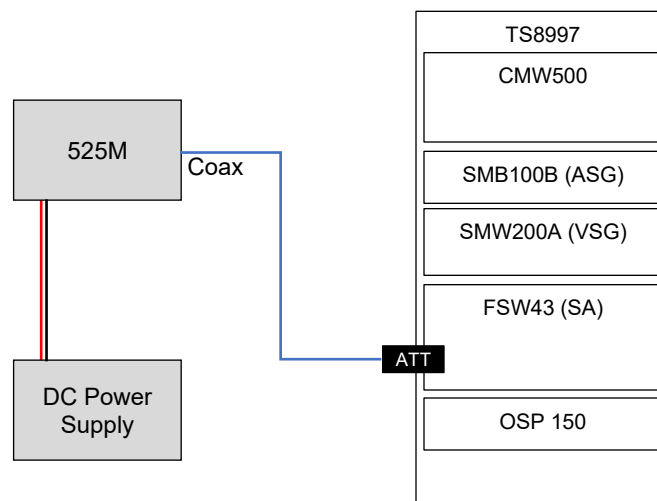
5.1 Method

Configuration as required by ANSI C63.26.

5.2 EUT Block Diagram – Radiated Measurements



5.3 EUT Block Diagram – Conducted Measurements



6 RF Output Power

6.1 Method

The methods defined in ANSI C63.26, Sections 5.2.3.3 and 5.2.4.3 were applied for measuring the peak and average output power. The antenna port was connected directly to a spectrum analyzer through a cable and attenuator. The attenuation was accounted for by applying an offset to the spectrum analyzer.

TEST SITE: RF Bench

The RF bench consists of a Rohde & Schwarz TS8997 automated test system coupled with a temperature/humidity environmental chamber. Where applicable, 2.4 and 5GHz radio measurements are automated using the Rohde & Schwarz EMC32 test software. The TS8997 system houses a switch matrix (OSP), along with a spectrum analyzer, vector network analyzer, and analog signal generator.

6.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
212165	Temperature/Humidity/Pressure Sensor	Extech	SD700	110344	04/29/2025	04/29/2026
213500	Analog Signal Generator (8kHz-40GHz)	Rohde & Schwarz	SMB100B	106096	08/20/2024	08/20/2026
213502	Spectrum Analyzer (2Hz-43.5GHz)	Rohde & Schwarz	FSW43	102972	08/01/2024	08/01/2026
213503-01	Megaphase	OSP DUT Cable 1	KC12-K1K1-80	20815001 001	VBU	VBU
213507-10	Tojoin	10dB SMA Attenuator	10dB	241120	VBU	VBU

Software Utilized

Name	Manufacturer	Version
RSCCommander	Rohde & Schwarz	2.4.2 64-bit (2023)

6.3 Results

The sample tested was found to Comply. The manufacturer's tune up tolerance is 30dBm +/- 1dB.

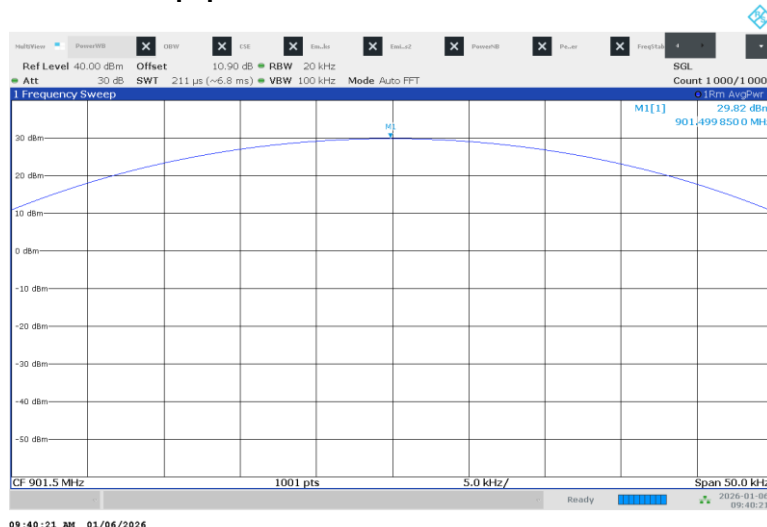
6.4 Test Data – Average Power

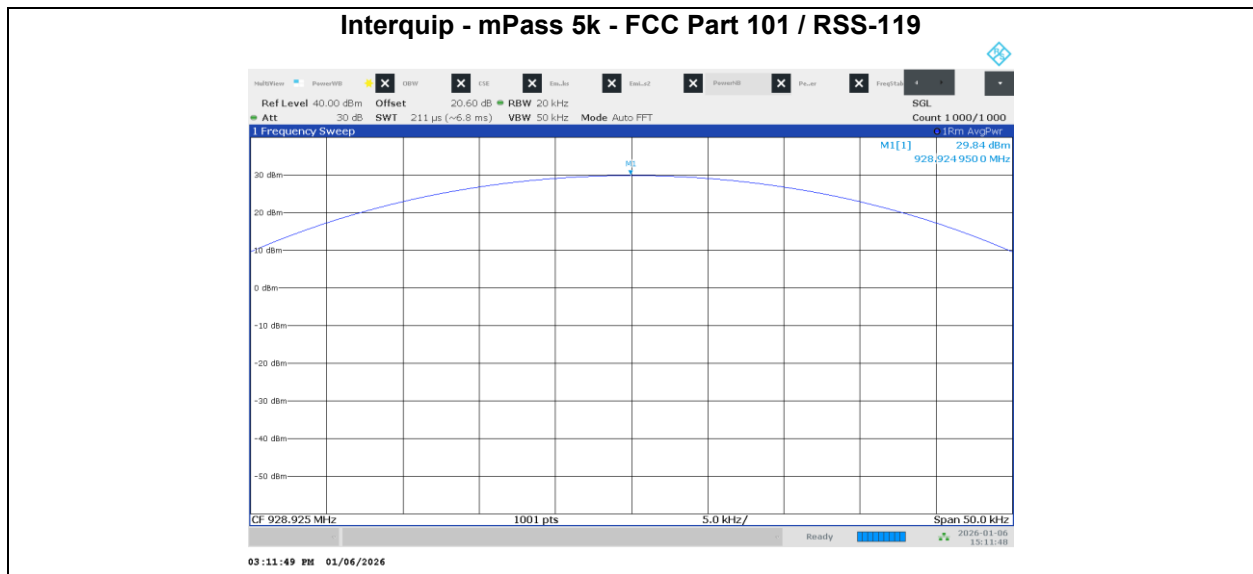
FCC Rule Part / RSS	Frequency (MHz)	AVG Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	FCC ERP/EIRP Limit (dBm)	ISED ERP Limit (dBm)
Interquip TCXO							
24D / RSS-134	901.5	29.82	0.3	30.12	27.97	38.45	38.45
101 / RSS-119	928.925	29.84	0.3	30.14	27.99	47.00	44.77
24D / RSS-134	930.5	29.83	0.3	30.13	27.98	38.45	38.45
101 / RSS-119	932.25	29.83	0.3	30.13	27.98	47.00	44.77
24D / RSS-134	940.0125	29.74	0.3	30.04	27.89	38.45	47.78
101 / RSS-119	941.4875	29.71	0.3	30.01	27.86	44.00	44.77
RSS-119	952.5	29.62	0.3	29.92	27.77	--	44.77
101	959.925	29.45	0.3	29.75	27.6	44.00	--
KDS TCXO							
24D / RSS-134	901.5	29.63	0.3	29.93	27.78	38.45	38.45
101 / RSS-119	928.925	29.67	0.3	29.97	27.82	47.00	44.77
24D / RSS-134	930.5	29.68	0.3	29.98	27.83	38.45	38.45
101 / RSS-119	932.25	29.70	0.3	30.00	27.85	47.00	44.77
24D / RSS-134	940.0125	29.66	0.3	29.96	27.81	38.45	47.78
101 / RSS-119	941.4875	29.56	0.3	29.86	27.71	44.00	44.77
RSS-119	952.5	29.58	0.3	29.88	27.73	--	44.77
101	959.925	29.57	0.3	29.87	27.72	44.00	--

Calculation: $P_{EIRP} = \text{Power} + \text{Antenna Gain (dBi)} \text{ (Part 101)}$
 $P_{ERP} = \text{Power} + \text{Antenna Gain (dBi)} - 2.15 \text{ (Part 24 / RSS-119/134)}$
 2.15 is the conversion from EIRP to ERP

Worst-Case Sample Plots

Interquip - mPass 5k - FCC Part 24 / RSS-134





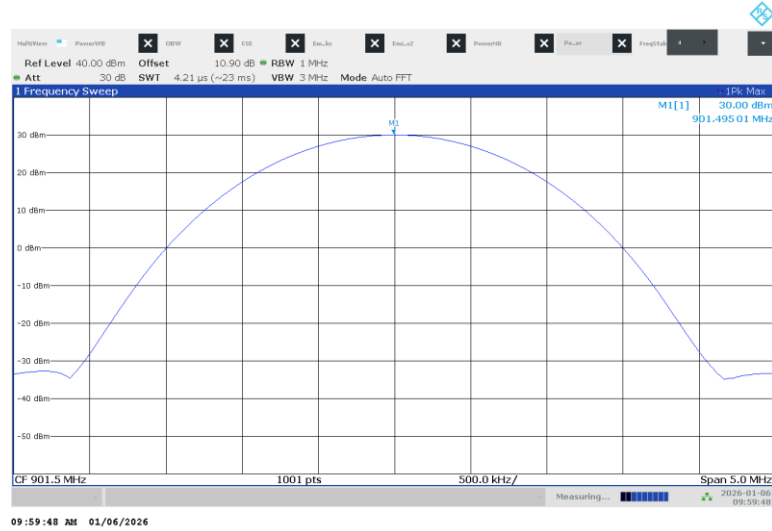
6.5 Test Data – Peak Power

FCC Rule Part / RSS	Frequency (MHz)	AVG Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	FCC ERP/EIRP Limit (dBm)	ISED ERP Limit (dBm)
Interquip TCXO							
24D / RSS-134	901.5	30.00	0.3	30.30	28.15	38.45	38.45
101 / RSS-119	928.925	29.94	0.3	30.24	28.09	47.00	44.77
24D / RSS-134	930.5	29.93	0.3	30.23	28.08	38.45	38.45
101 / RSS-119	932.25	29.94	0.3	30.24	28.09	47.00	44.77
24D / RSS-134	940.0125	29.83	0.3	30.13	27.98	38.45	47.78
101 / RSS-119	941.4875	29.85	0.3	30.15	28	44.00	44.77
RSS-119	952.5	29.78	0.3	30.08	27.93	--	44.77
101	959.925	29.63	0.3	29.93	27.78	44.00	--
KDS TCXO							
24D / RSS-134	901.5	29.86	0.3	30.16	28.01	38.45	38.45
101 / RSS-119	928.925	29.83	0.3	30.13	27.98	47.00	44.77
24D / RSS-134	930.5	29.84	0.3	30.14	27.99	38.45	38.45
101 / RSS-119	932.25	29.83	0.3	30.13	27.98	47.00	44.77
24D / RSS-134	940.0125	29.77	0.3	30.07	27.92	38.45	47.78
101 / RSS-119	941.4875	29.80	0.3	30.1	27.95	44.00	44.77
RSS-119	952.5	29.75	0.3	30.05	27.9	--	44.77
101	959.925	29.60	0.3	29.9	27.75	44.00	--

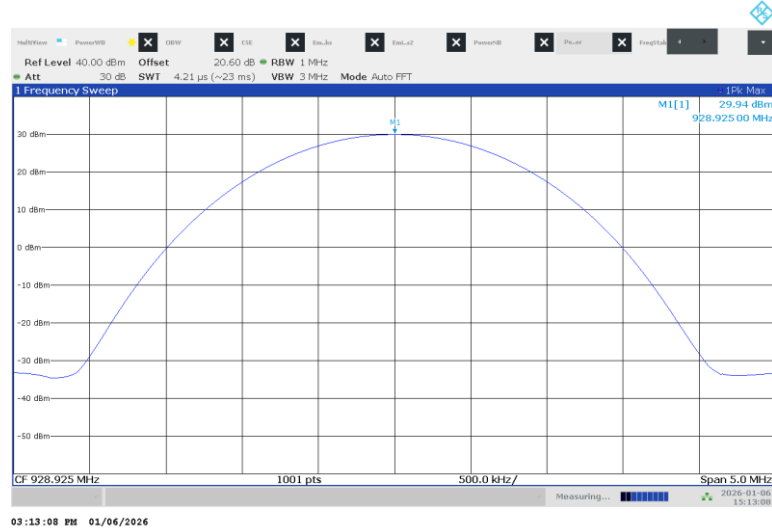
Calculation: $P_{EIRP} = \text{Power} + \text{Antenna Gain (dBi)} \text{ (Part 101)}$
 $P_{ERP} = \text{Power} + \text{Antenna Gain (dBi)} - 2.15 \text{ (Part 24 / RSS-119/134)}$
 2.15 is the conversion from EIRP to ERP

Worst-Case Sample Plots

Interquip - mPass 5k - FCC Part 24 / RSS-134



Interquip - mPass 5k - FCC Part 101 / RSS-119



Test Personnel: Jeremy Pickens

Test Date: 06 January 2026

Reference Standard: ANSI C63.26

Ambient Temperature: 19.8°C

Relative Humidity: 43.0%

Atmospheric Pressure: 98.2kPa

7 Out of Band Unwanted Emissions

7.1 Method

The methods defined in ANSI C63.26, Section 5.7.3 were applied for measuring the out of band emissions. The antenna port was connected directly to a spectrum analyzer through a cable and attenuator. The attenuation was accounted for by applying an offset to the spectrum analyzer. For FCC, RSS-119 Mask G, and RSS-134 testing, the spectrum analyzer was configured with a 300Hz Resolution Bandwidth (RBW). For RSS-119 Mask D measurements, the spectrum analyzer was configured with a 100Hz RBW. For all masks, the Video Bandwidth (VBW) was configured to at least 3 times the RBW.

For modulations/bands where the channel spacing may be 12.5kHz or 25kHz, only the plots for 12.5kHz spacing were tested as worst-case.

TEST SITE: RF Bench

The RF bench consists of a Rohde & Schwarz TS8997 automated test system coupled with a temperature/humidity environmental chamber. Where applicable, 2.4 and 5GHz radio measurements are automated using the Rohde & Schwarz EMC32 test software. The TS8997 system houses a switch matrix (OSP), along with a spectrum analyzer, vector network analyzer, and analog signal generator.

7.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
212165	Temperature/Humidity/Pressure Sensor	Extech	SD700	110344	04/29/2025	04/29/2026
213500	Analog Signal Generator (8kHz-40GHz)	Rohde & Schwarz	SMB100B	106096	08/20/2024	08/20/2026
213502	Spectrum Analyzer (2Hz-43.5GHz)	Rohde & Schwarz	FSW43	102972	08/01/2024	08/01/2026
213506-02	Huber+Suhner	RF Test Cable	Enviroflex 400	213506-02	VBV	VBV
213507-20	Tojoin	20dB SMA Attenuator	20dB	241123	VBV	VBV

Software Utilized

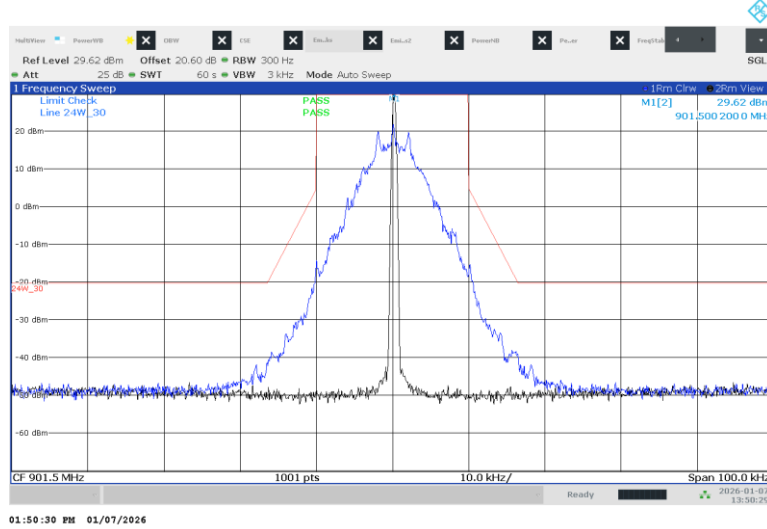
Name	Manufacturer	Version
RSCommander	Rohde & Schwarz	2.4.2 64-bit (2023)

7.3 Results

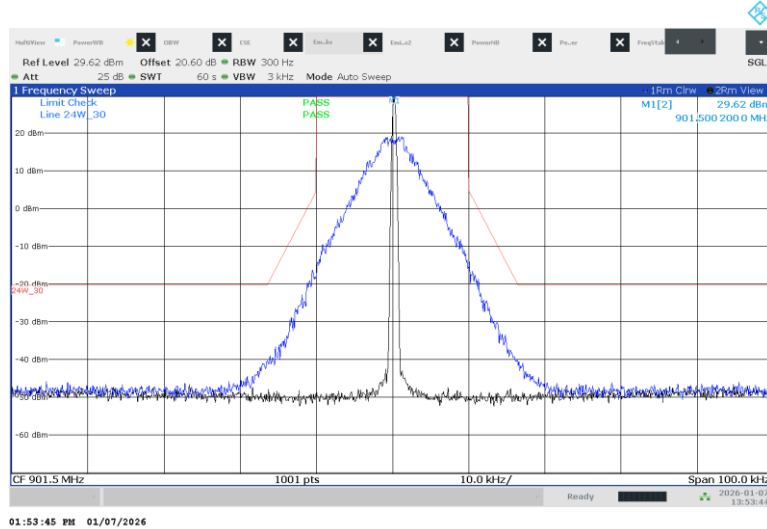
The sample tested was found to Comply.

7.4 Test Data – Part 24.133(a)(1)/(a)(2) and RSS-134 S4.4.1(a)/(b), S4.4.2(a)/(b)

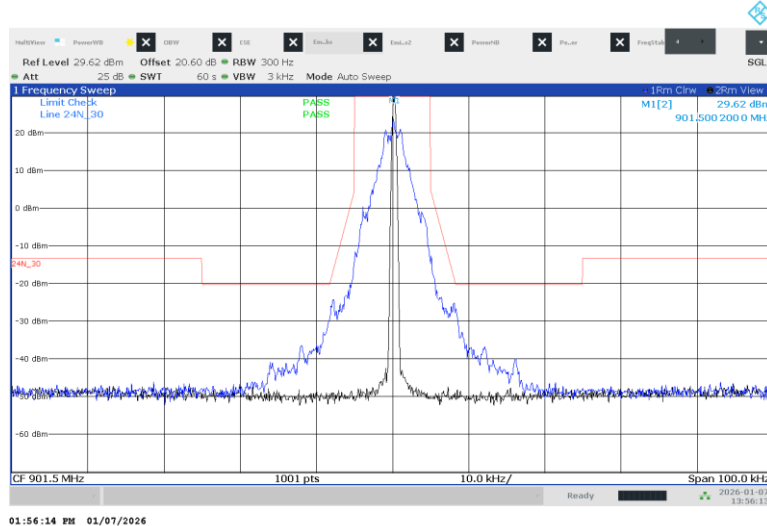
901.5MHz – 25kHz Channel Spacing – Normal Mode



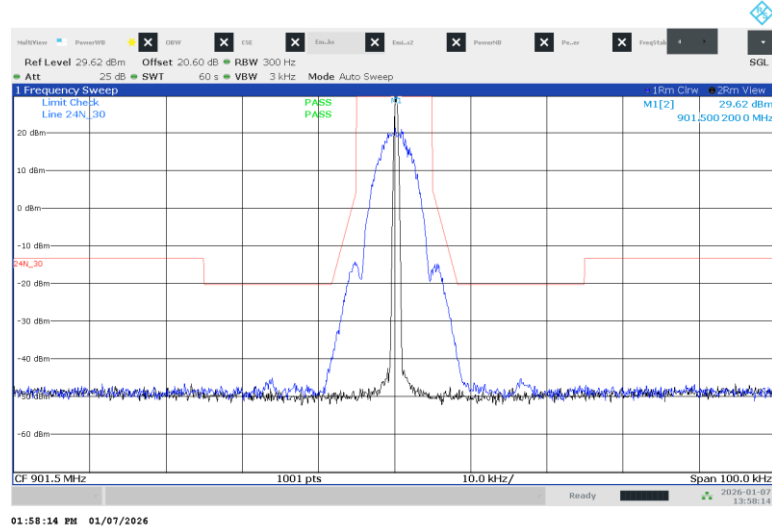
901.5MHz – 25kHz Channel Spacing – Double Density Mode



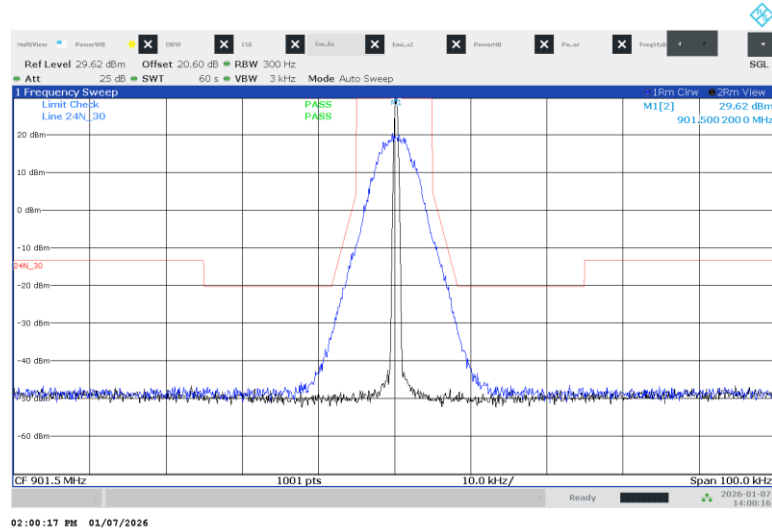
901.5MHz – 12.5kHz Channel Spacing – C&I (Half Baud) Mode



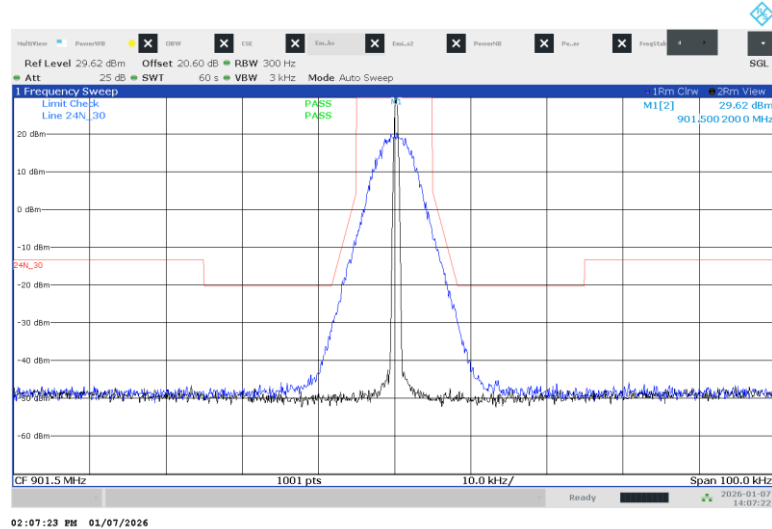
901.5MHz – 12.5kHz Channel Spacing – 2SFSK (Half Baud) Mode



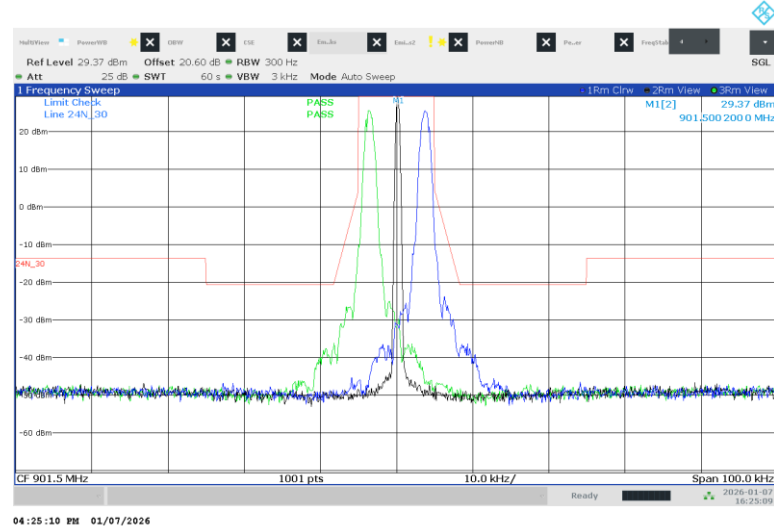
901.5MHz – 12.5kHz Channel Spacing – 4SFSK (Half Baud) Mode



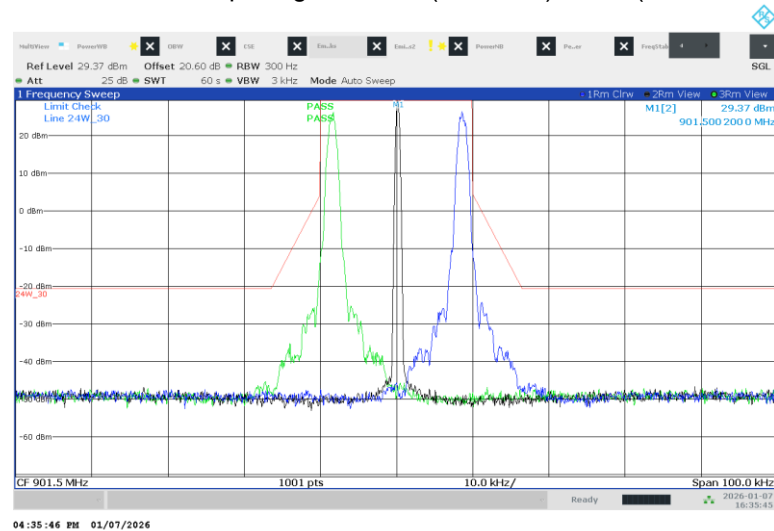
901.5MHz – 12.5kHz Channel Spacing – 8SFSK (Half Baud) Mode



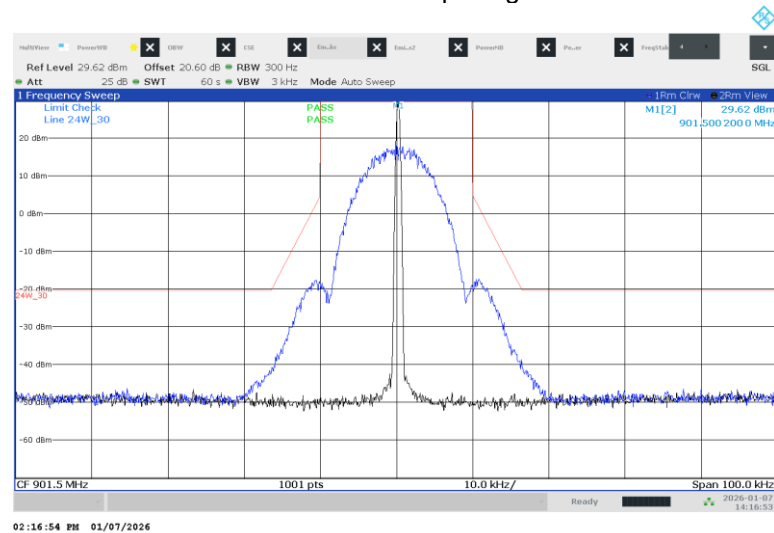
901.5MHz – 12.5kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 6 Channels)



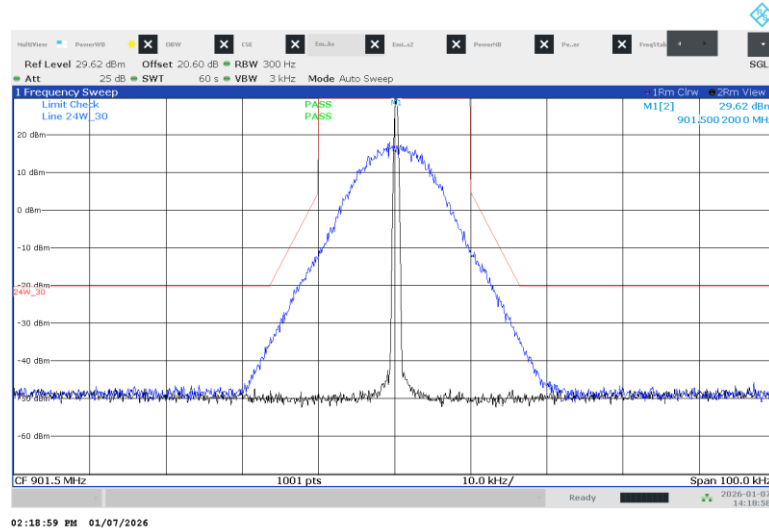
901.5MHz – 25kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 14 Channels)



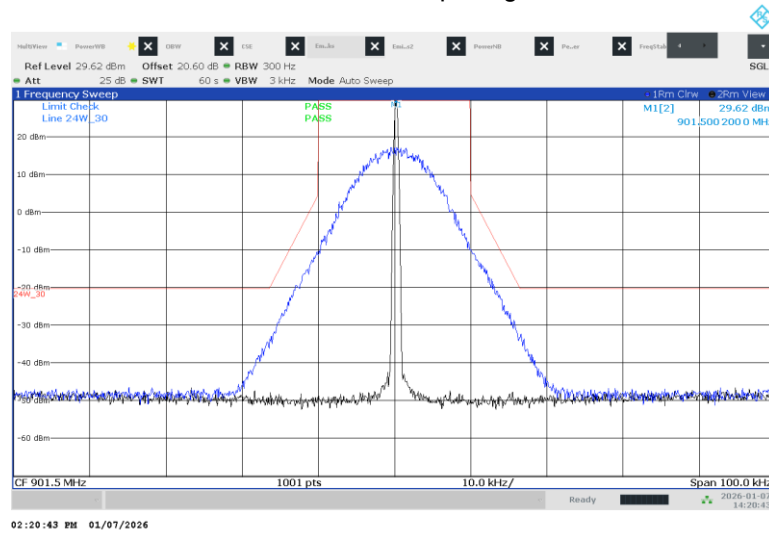
901.5MHz – 25kHz Channel Spacing – 2SFSK Mode



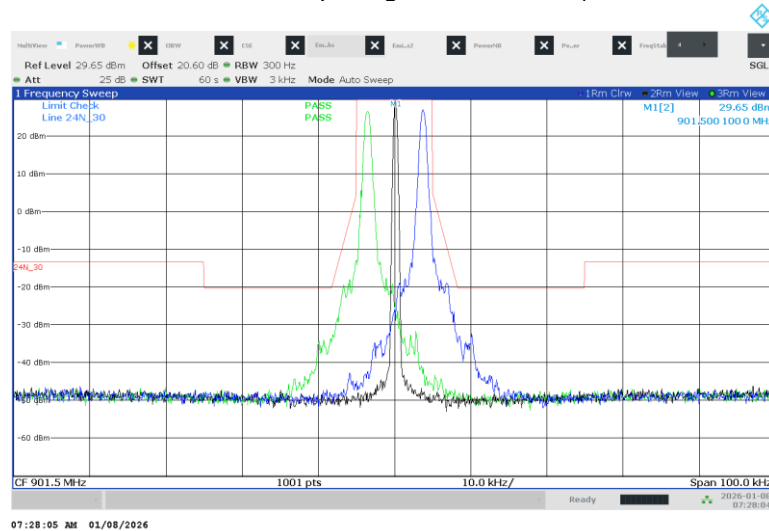
901.5MHz – 25kHz Channel Spacing – 4SFSK Mode



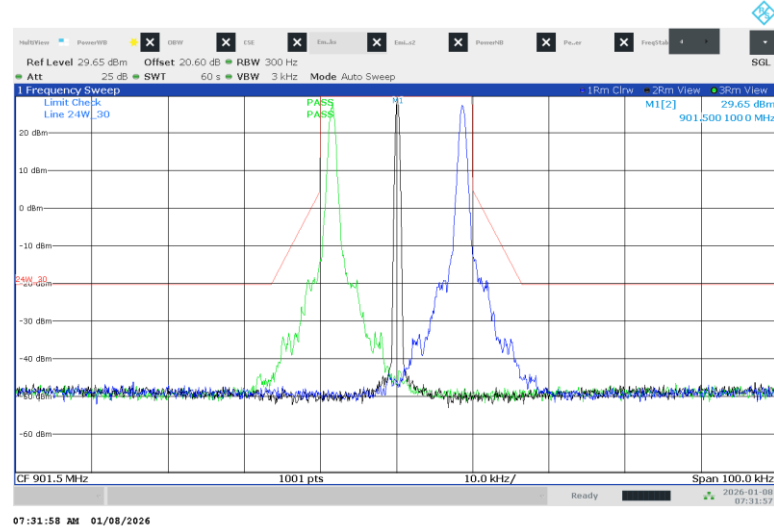
901.5MHz – 25kHz Channel Spacing – 8SFSK Mode



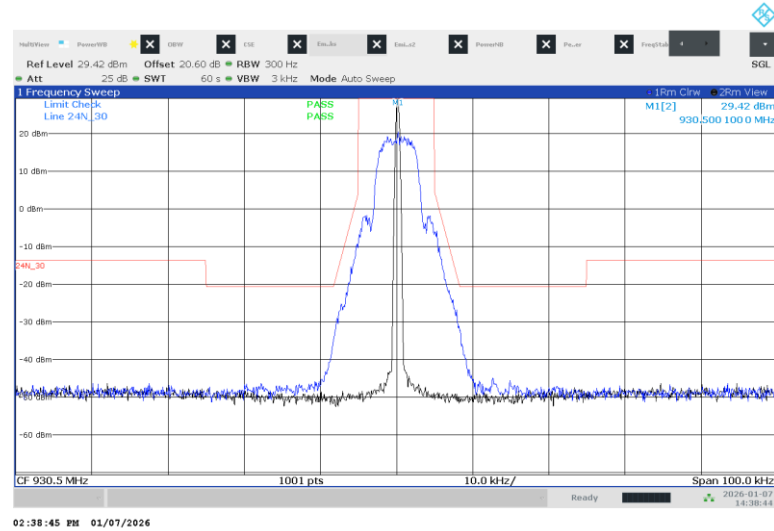
901.5MHz – 12.5kHz Channel Spacing – Boost Mode (Offset +/- 6 Channels)



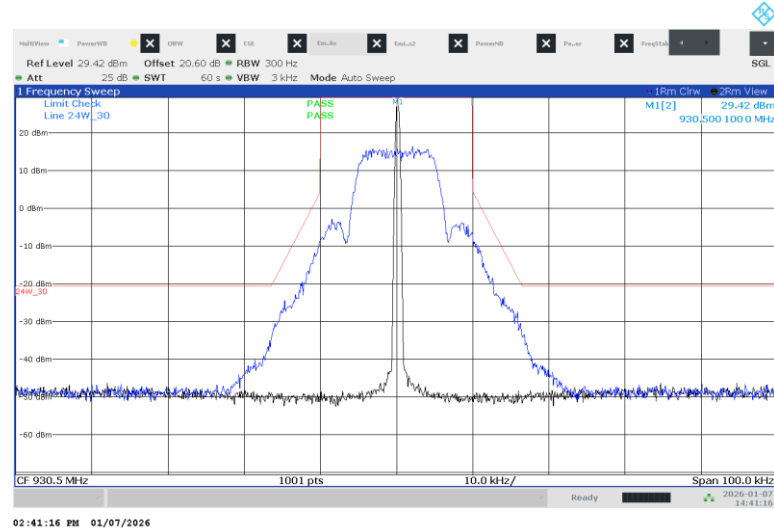
901.5MHz – 25kHz Channel Spacing – Boost Mode (Offset +/- 14 Channels)



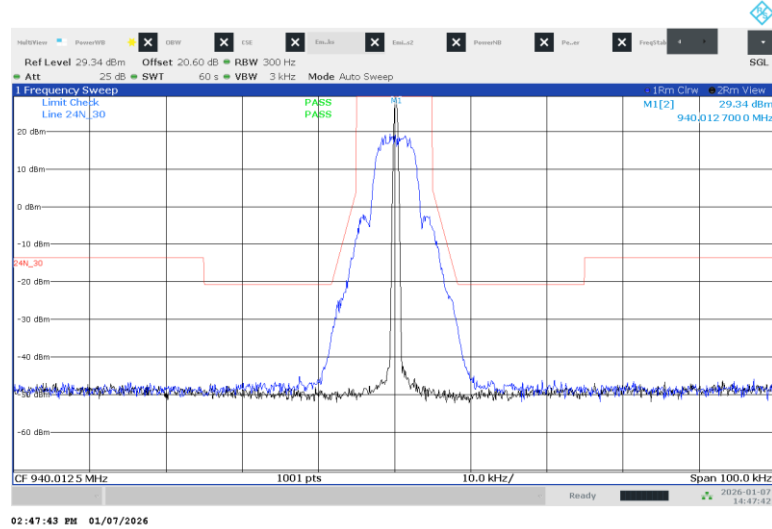
930.5MHz – 12.5kHz Channel Spacing – mPass 5k Mode



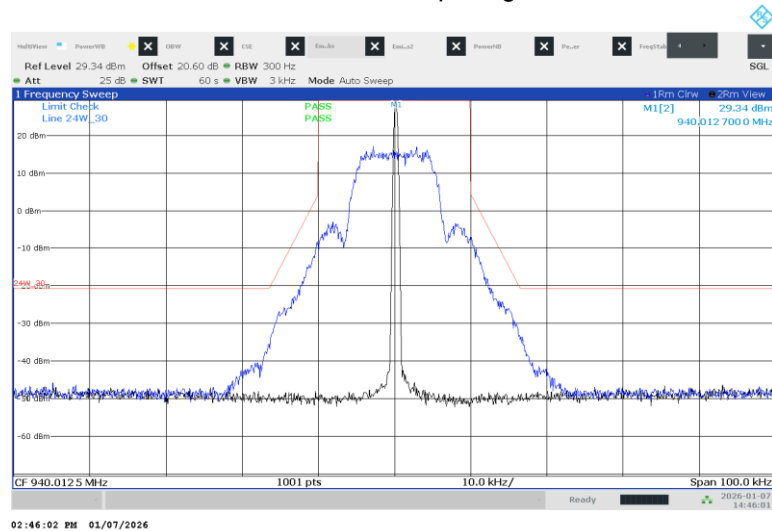
930.5MHz – 25kHz Channel Spacing – mPass 10k Mode



940.0125MHz – 12.5kHz Channel Spacing – mPass 5k Mode



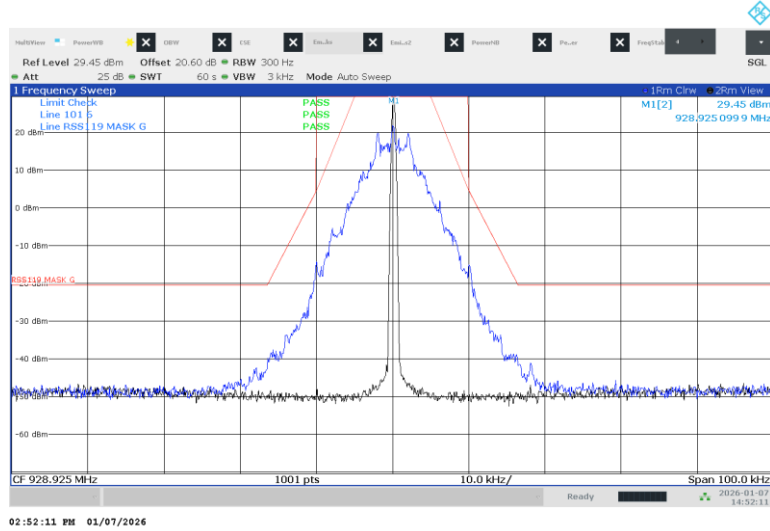
940.0125MHz – 25kHz Channel Spacing – mPass 10k Mode



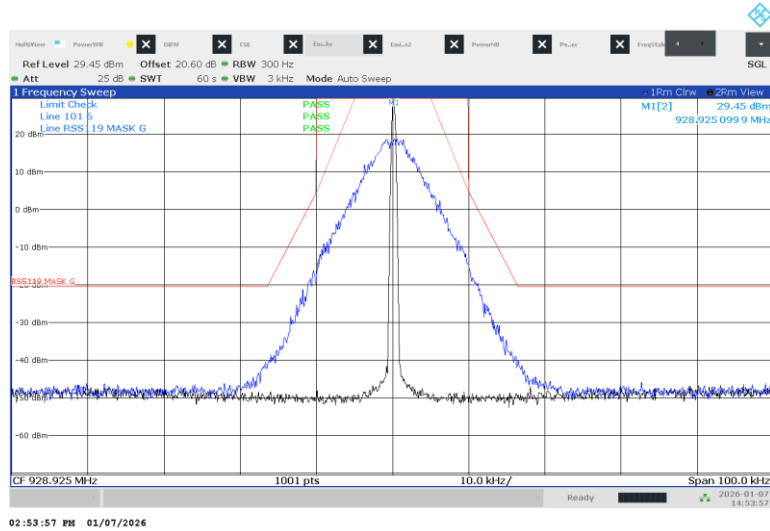
7.5 Test Data – Parts 101.111(a)(5)/101.111(a)(6) and RSS-119 S5.8.6 (Mask G)

Note: FCC Part 101 is worst-case.

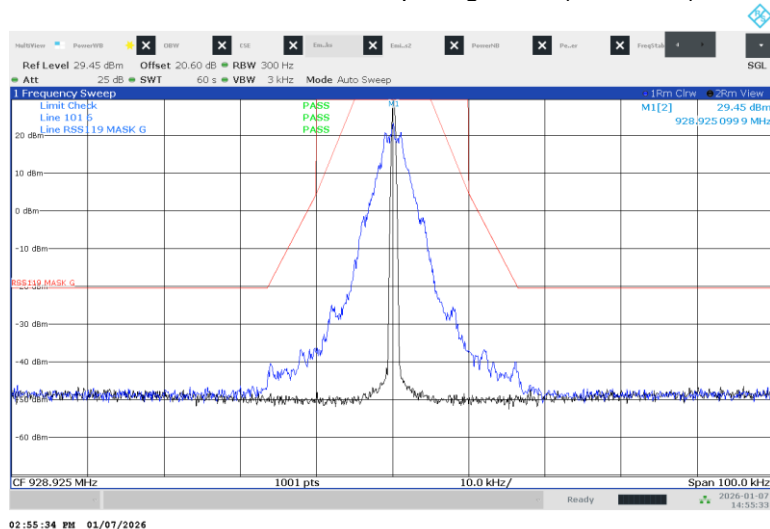
928.925MHz – 25kHz Channel Spacing – Normal Mode



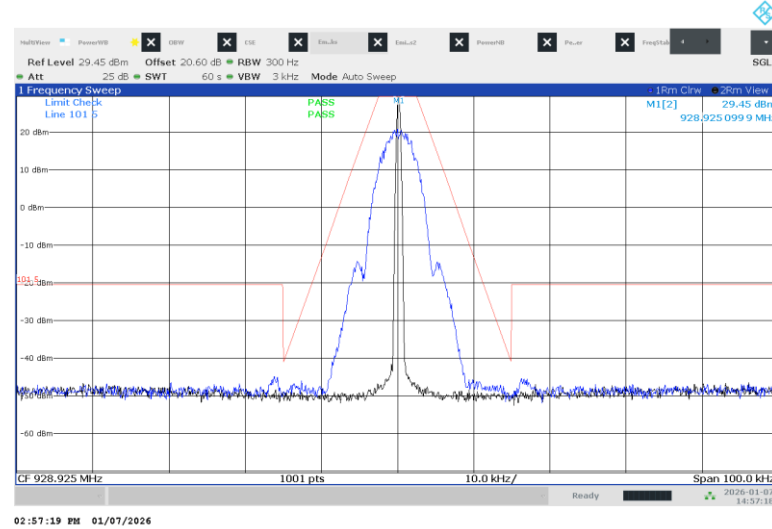
928.925MHz – 25kHz Channel Spacing – Double Density Mode



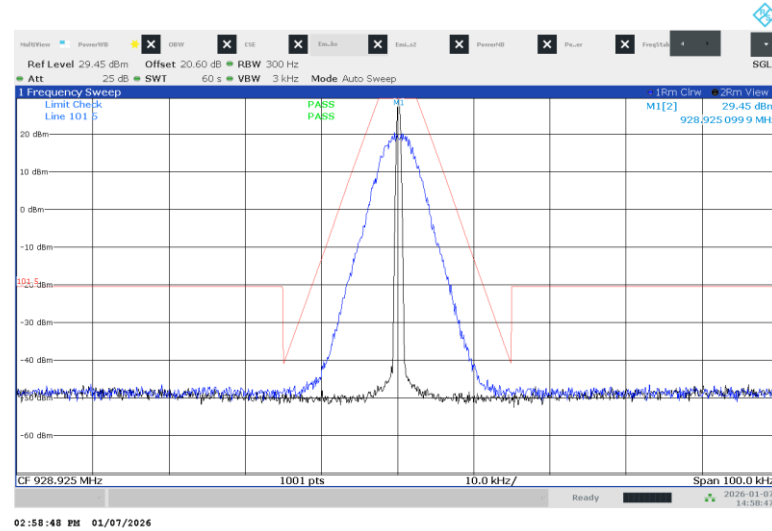
928.925MHz – 25kHz Channel Spacing – C&I (Half Baud) Mode



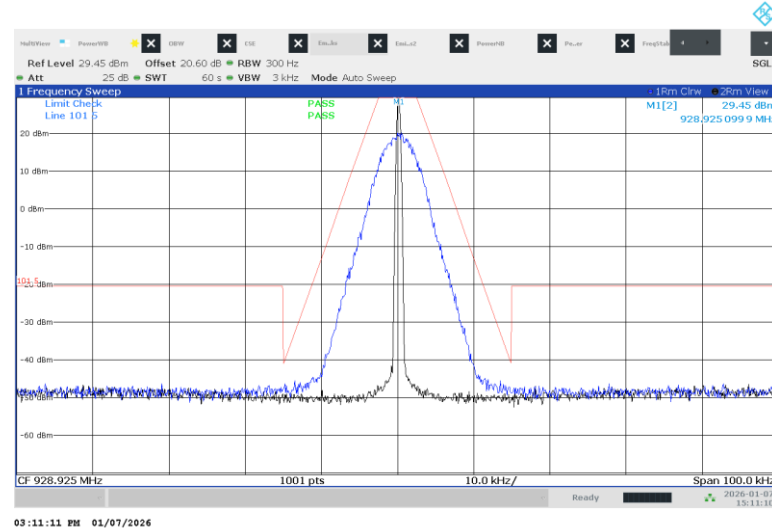
928.925MHz – 12.5kHz Channel Spacing – 2SFSK (Half Baud) Mode



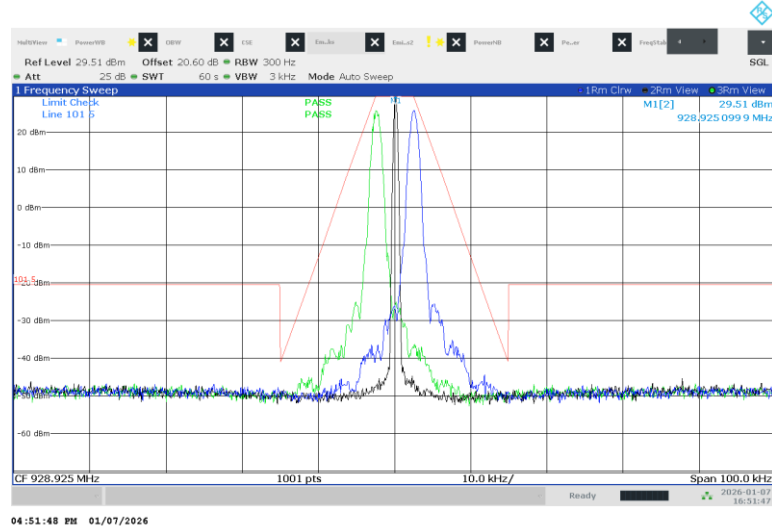
928.925MHz – 12.5kHz Channel Spacing – 4SFSK (Half Baud) Mode



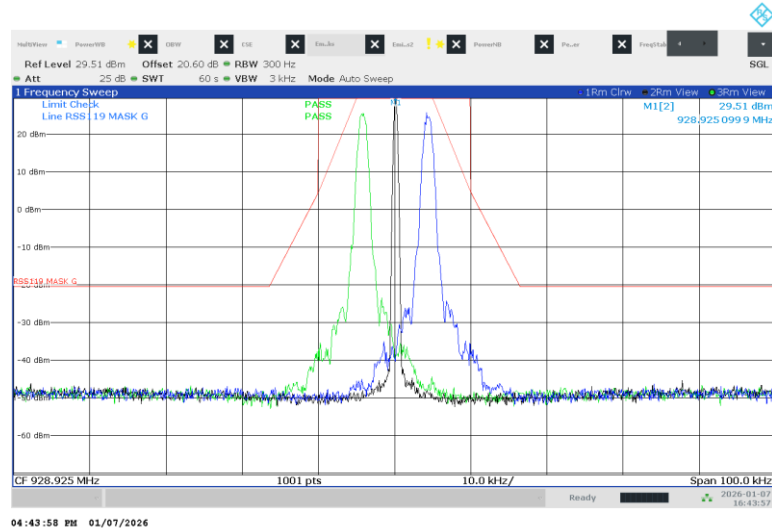
928.925MHz – 12.5kHz Channel Spacing – 8SFSK (Half Baud) Mode



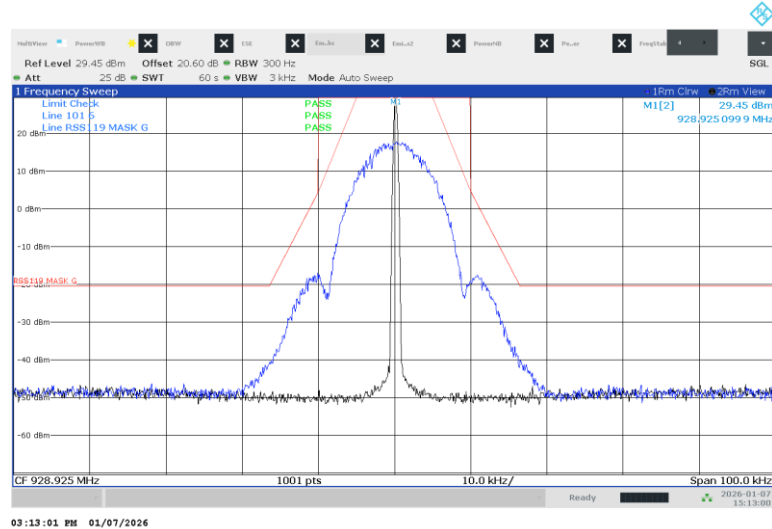
928.925MHz – 12.5kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 4 Channels)



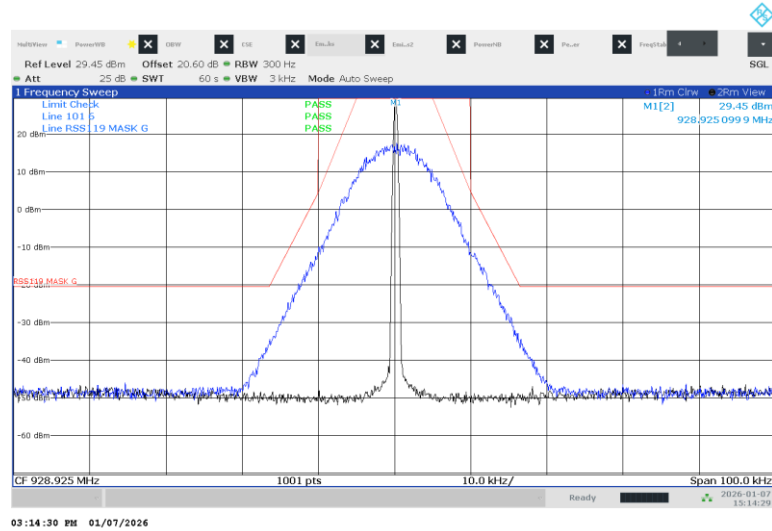
928.925MHz – 25kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 7 Channels)



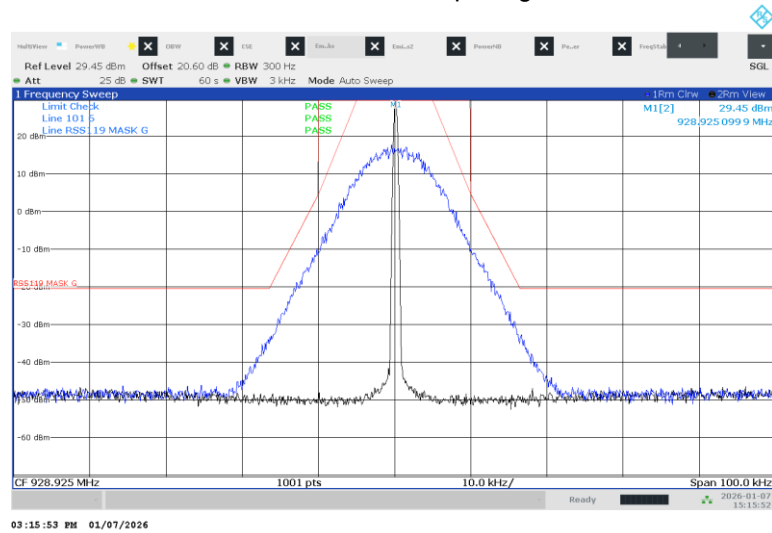
928.925MHz – 25kHz Channel Spacing – 2SFSK Mode



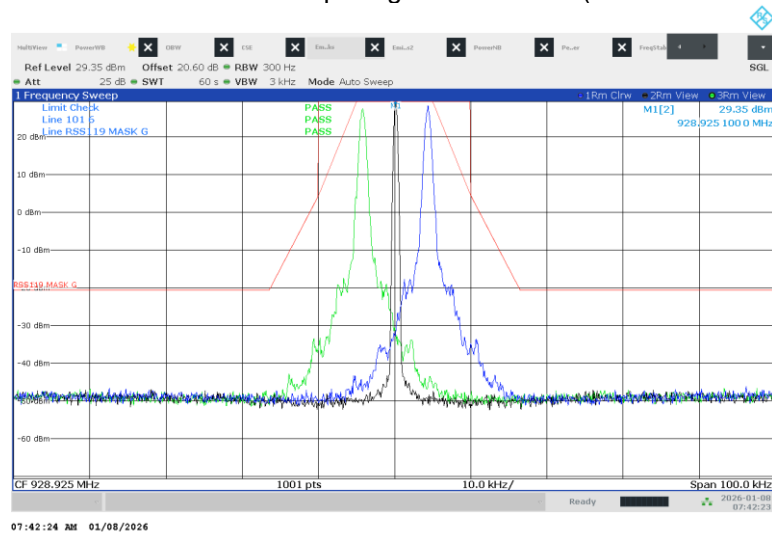
928.925MHz – 25kHz Channel Spacing – 4SFSK Mode



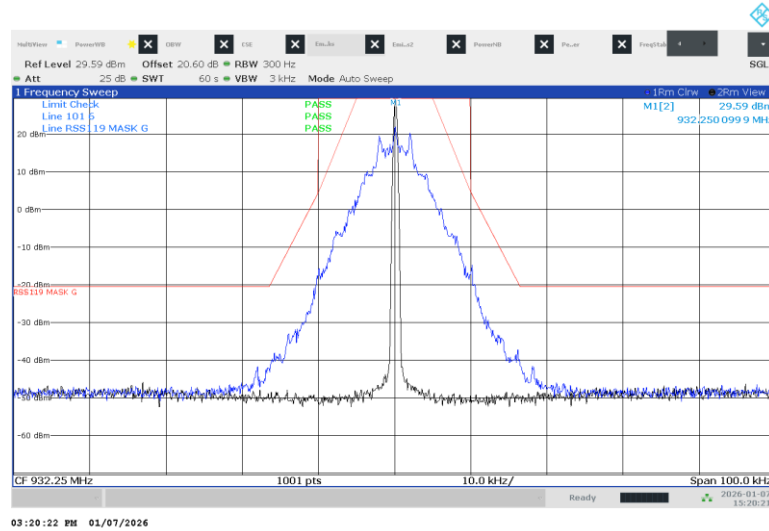
928.925MHz – 25kHz Channel Spacing – 8SFSK Mode



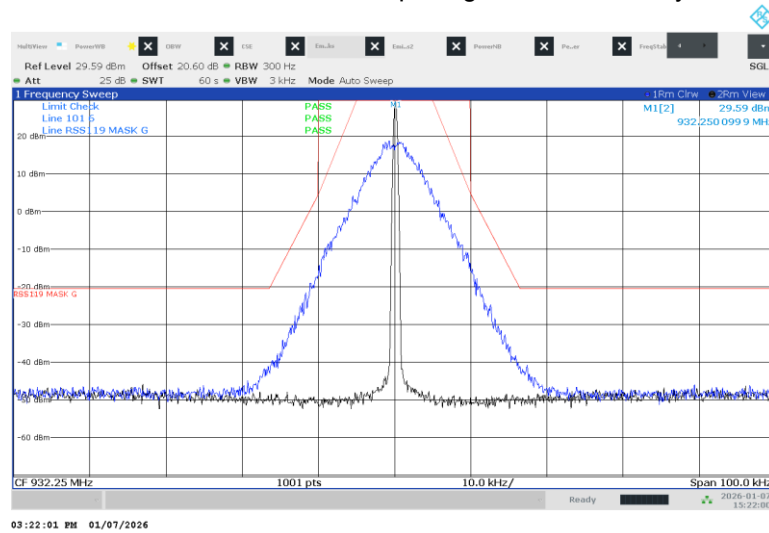
928.925MHz – 25kHz Channel Spacing – Boost Mode (Offset +/- 7 Channels)



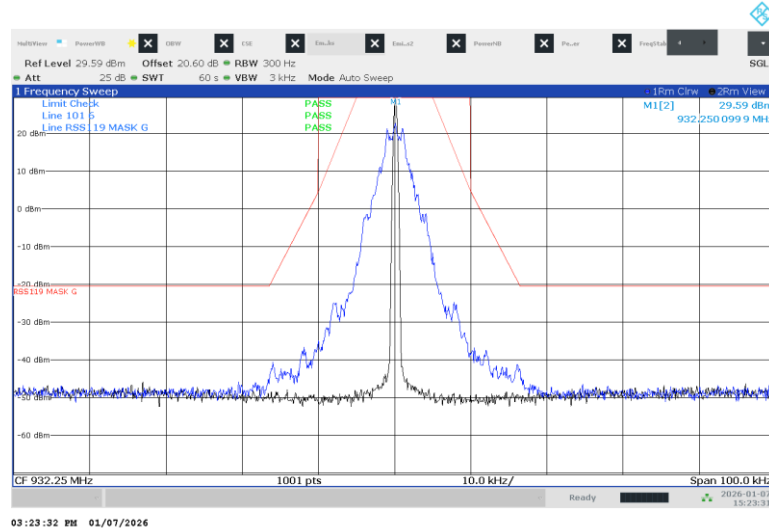
932.25MHz – 25kHz Channel Spacing – Normal Mode



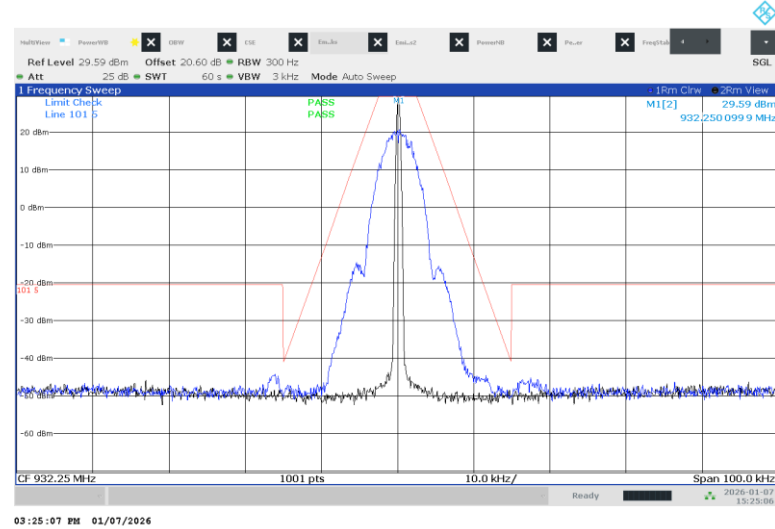
932.25MHz – 25kHz Channel Spacing – Double Density Mode



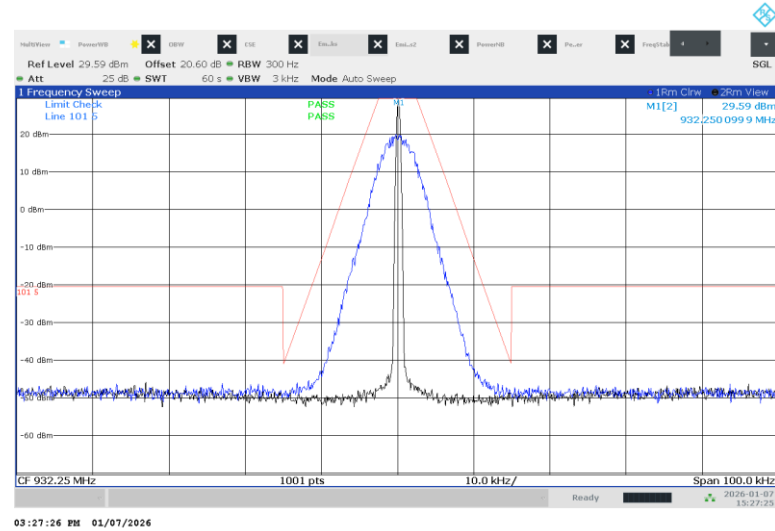
932.25MHz – 25kHz Channel Spacing – C&I (Half Baud) Mode



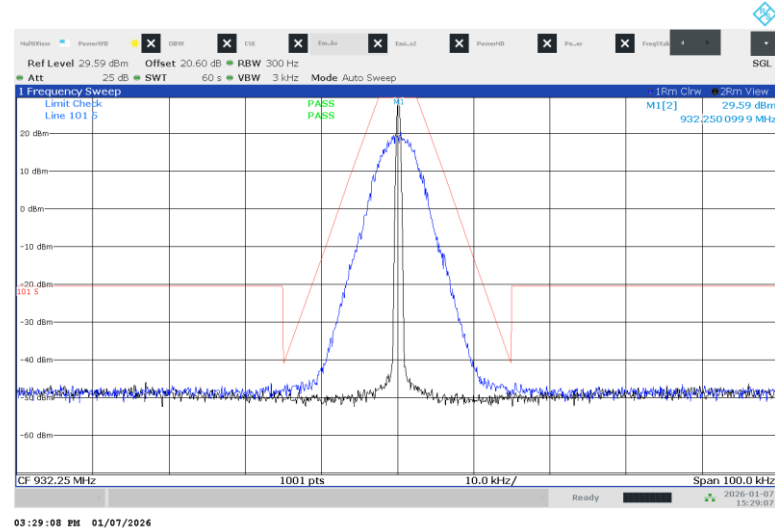
932.25MHz – 12.5kHz Channel Spacing – 2SFSK (Half Baud) Mode



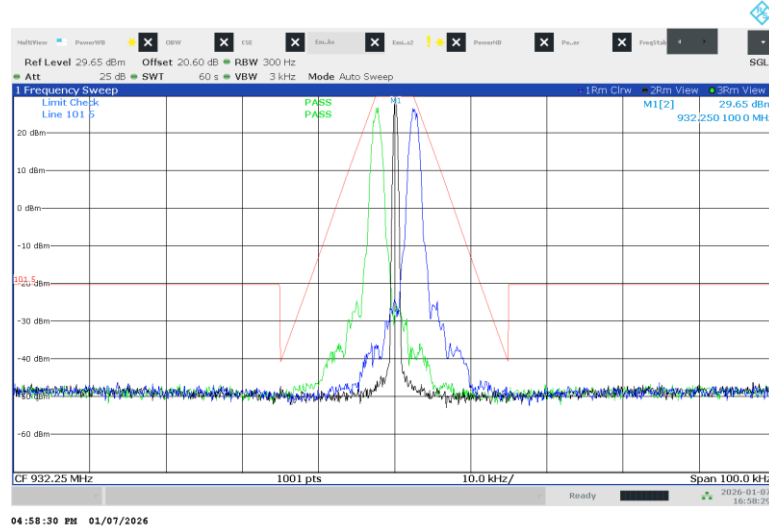
932.25MHz – 12.5kHz Channel Spacing – 4SFSK (Half Baud) Mode



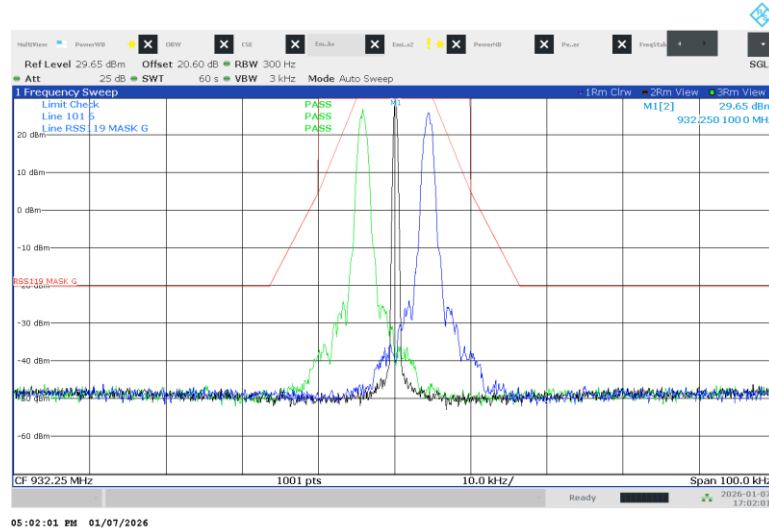
932.25MHz – 12.5kHz Channel Spacing – 8SFSK (Half Baud) Mode



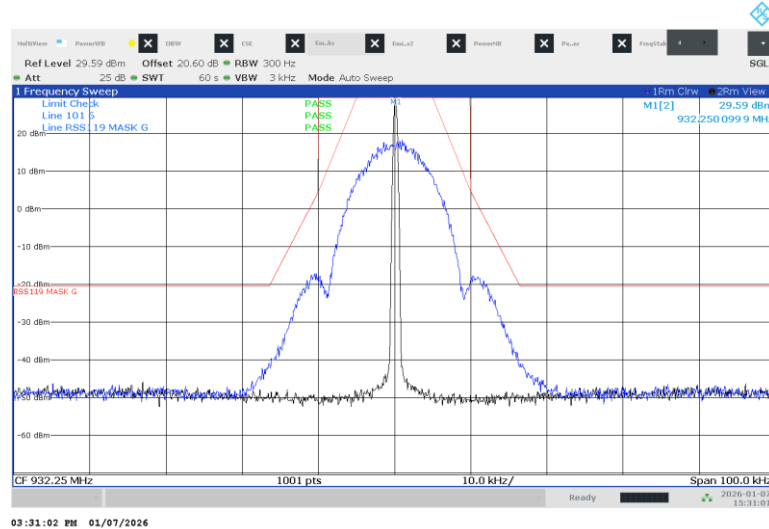
932.25MHz – 12.5kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 4 Channels)



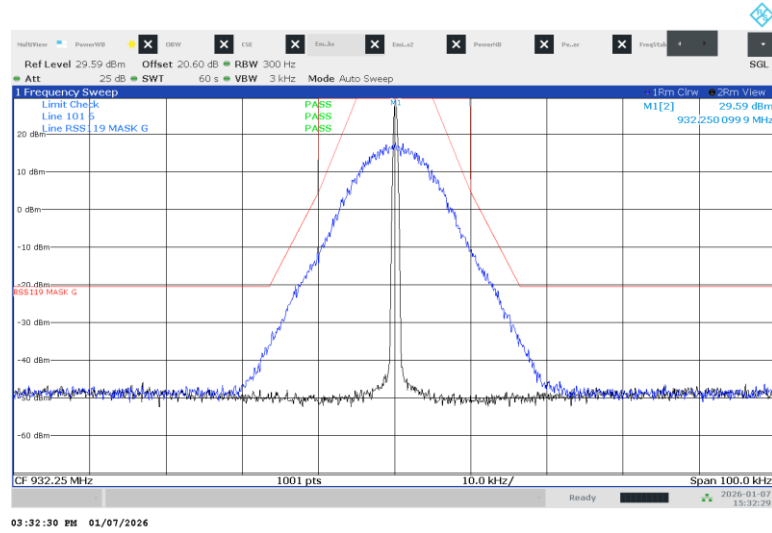
932.25MHz – 25kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 7 Channels)



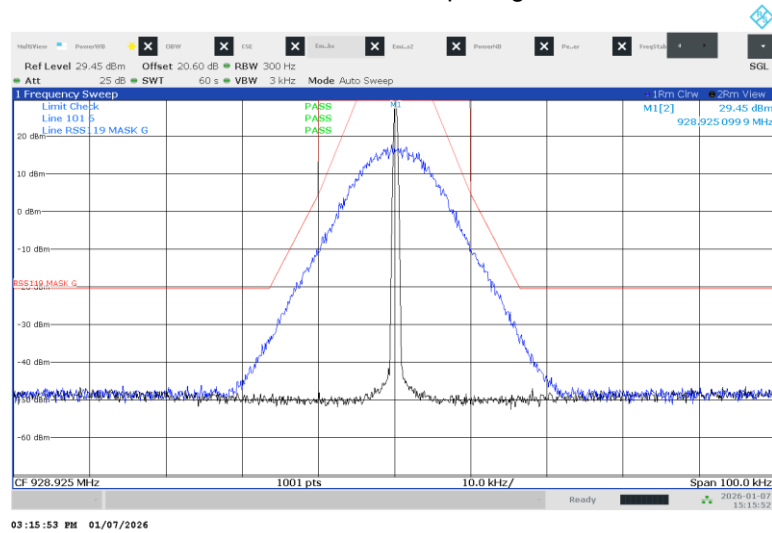
932.25MHz – 25kHz Channel Spacing – 2SFSK Mode



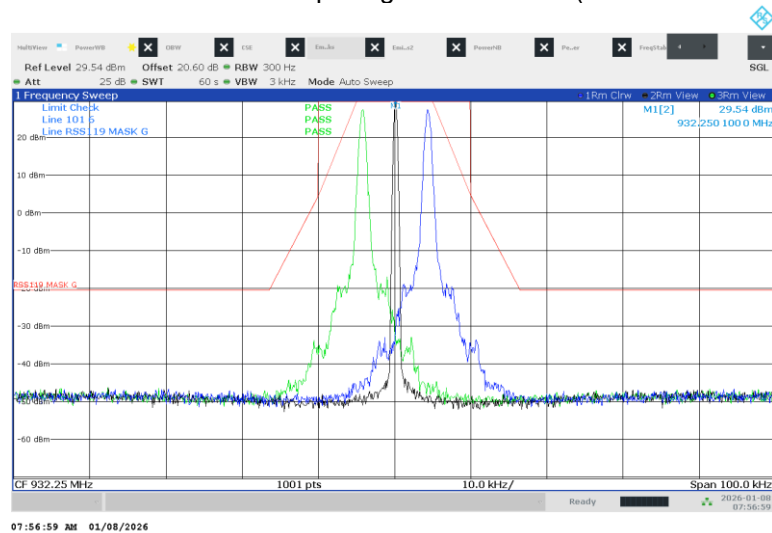
932.25MHz – 25kHz Channel Spacing – 4SFSK Mode



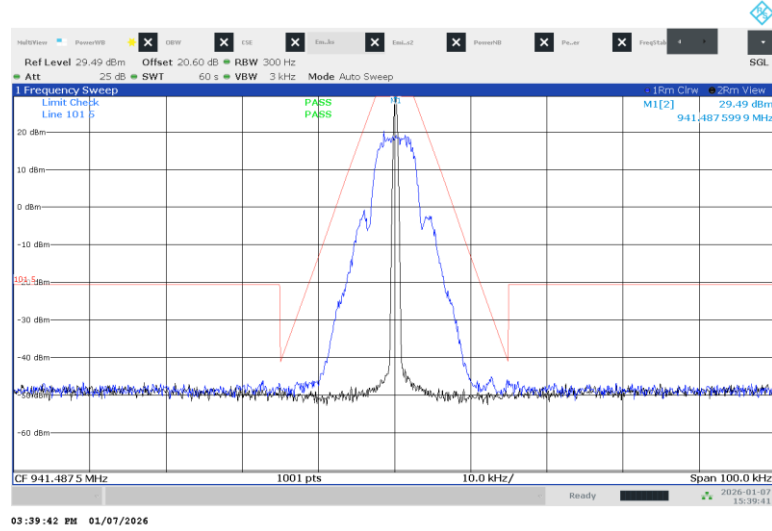
932.25MHz – 25kHz Channel Spacing – 8SFSK Mode



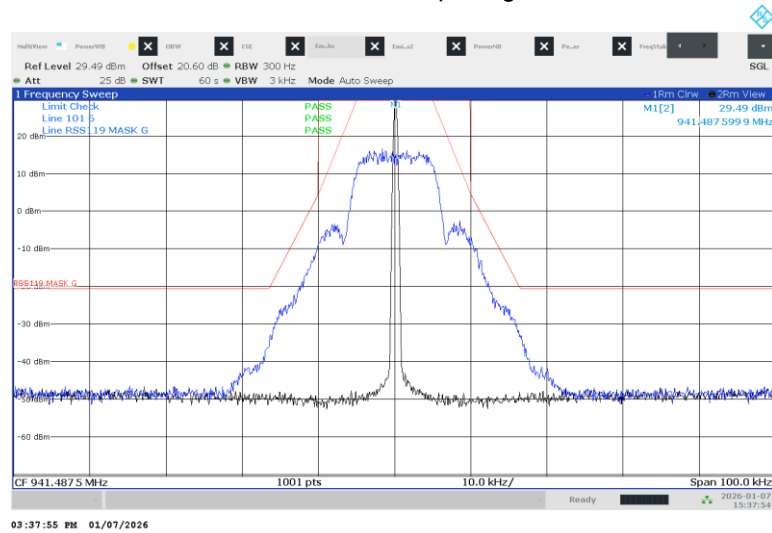
932.25MHz – 25kHz Channel Spacing – Boost Mode (Offset +/- 7 Channels)



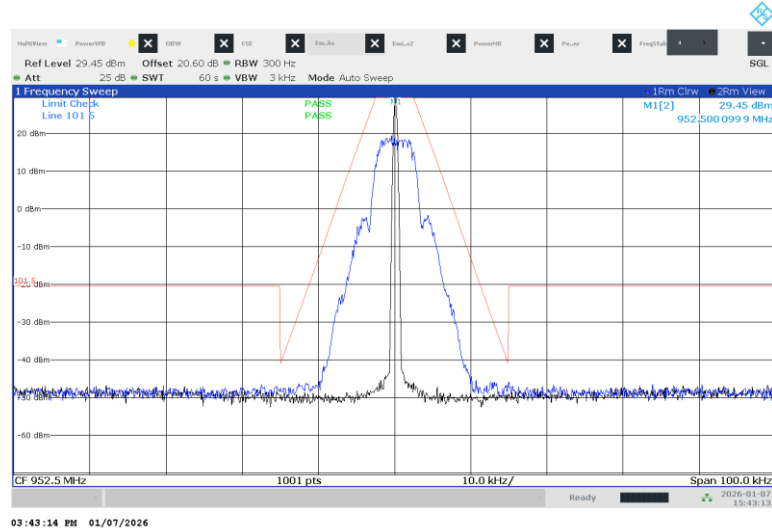
941.4875MHz – 12.5kHz Channel Spacing – mPass 5k Mode



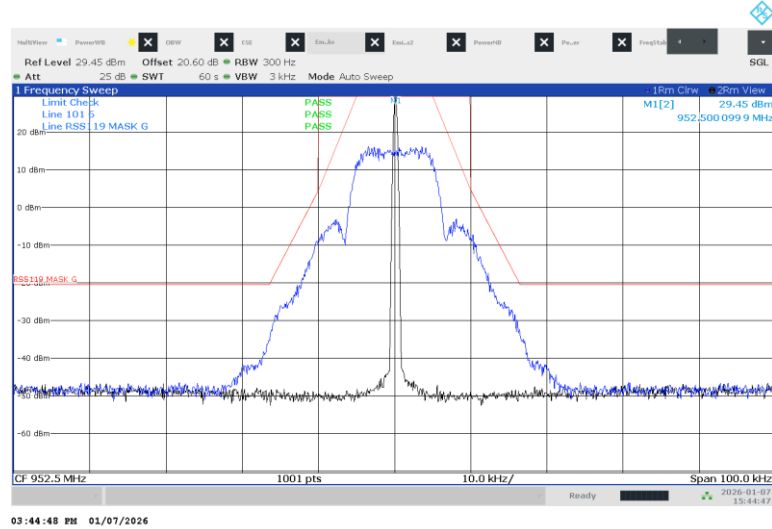
941.4875MHz – 25kHz Channel Spacing – mPass 10k Mode



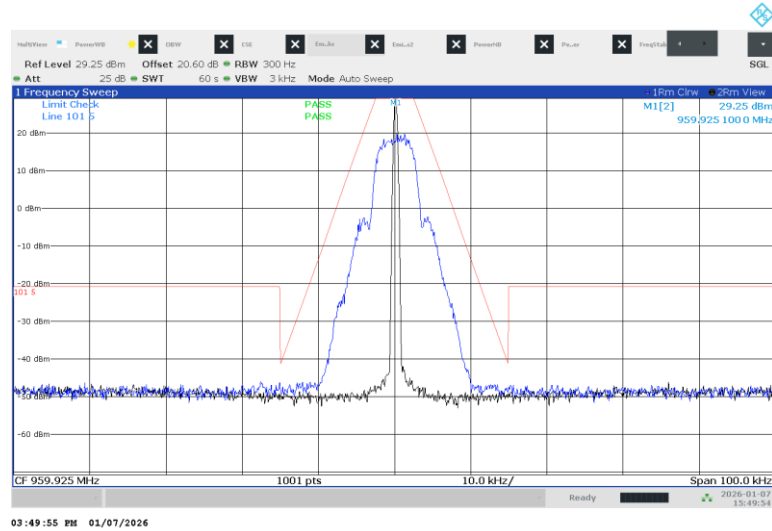
952.5MHz – 12.5kHz Channel Spacing – mPass 5k Mode



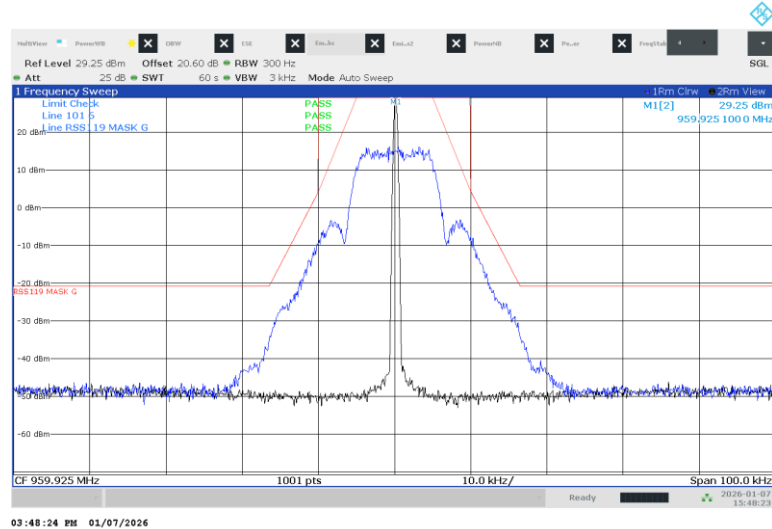
952.5MHz – 25kHz Channel Spacing – mPass 10k Mode



959.925MHz – 12.5kHz Channel Spacing – mPass 5k Mode

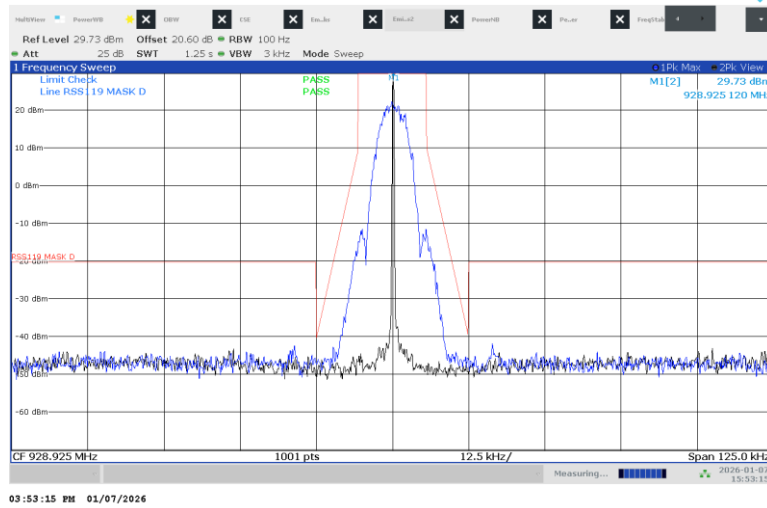


959.925MHz – 25kHz Channel Spacing – mPass 10k Mode

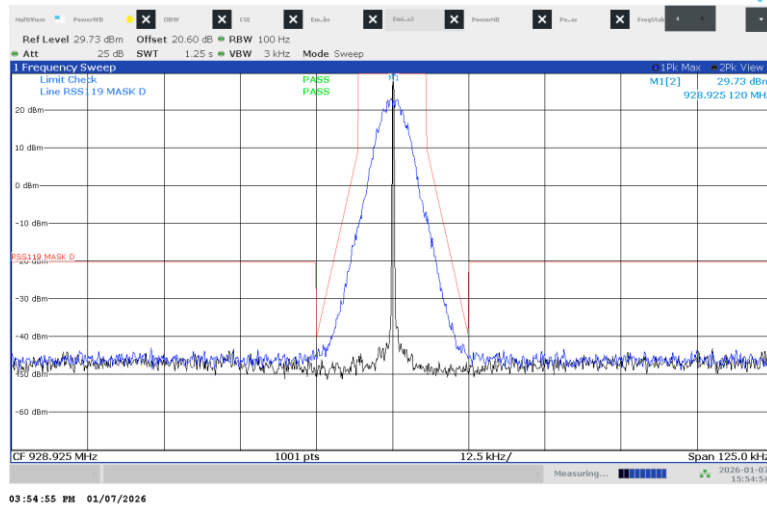


7.6 Test Data –RSS-119 S5.8.3 (Mask D)

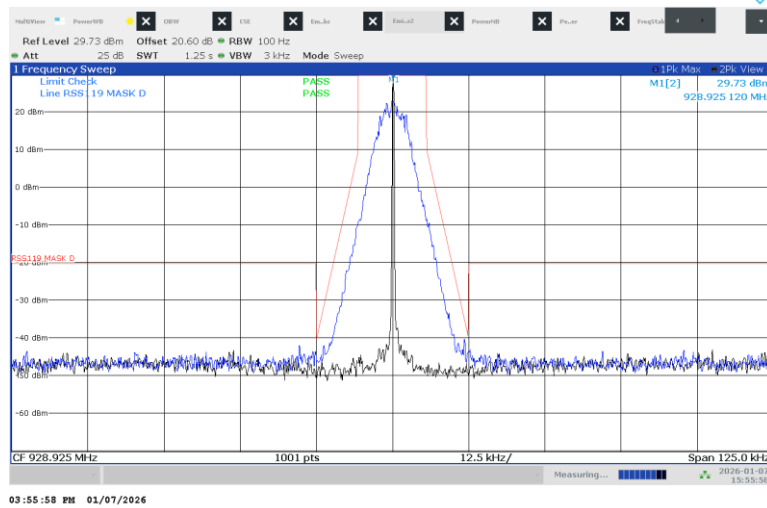
928.925MHz – 12.5kHz Channel Spacing – 2SFSK (Half Baud) Mode



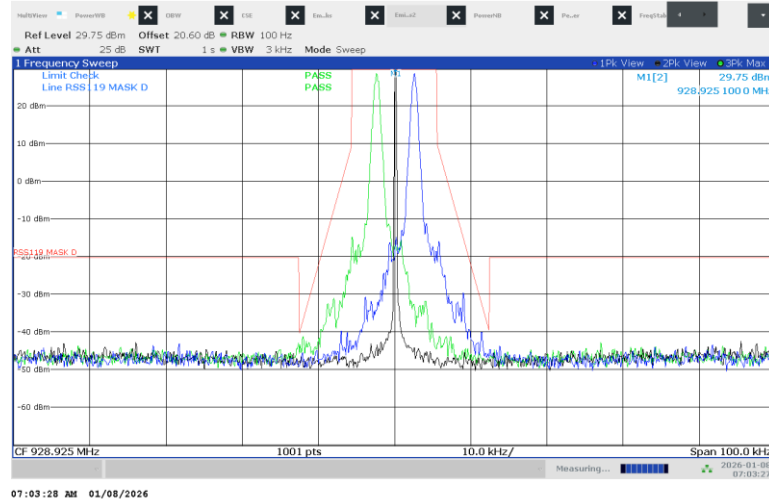
928.925MHz – 12.5kHz Channel Spacing – 4SFSK (Half Baud) Mode



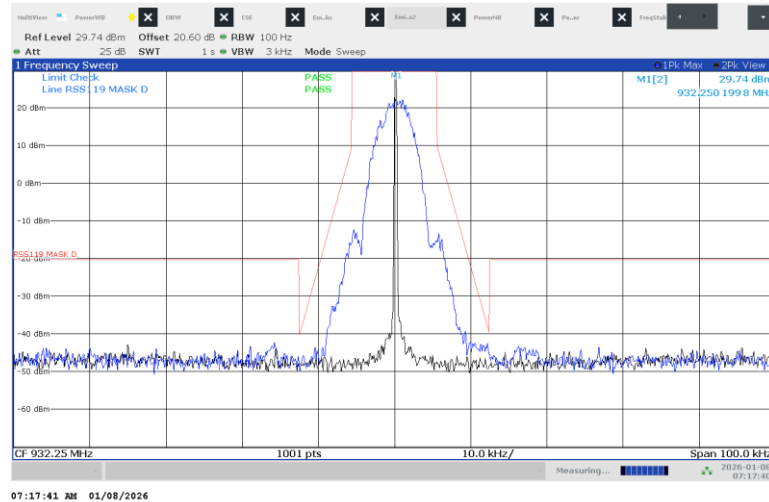
928.925MHz – 12.5kHz Channel Spacing – 8SFSK (Half Baud) Mode



928.925MHz – 12.5kHz Channel Spacing – 2SFSK (1/8 Baud) Mode (Offset +/- 4 Channels)



932.25MHz – 12.5kHz Channel Spacing – 2SFSK (Half Baud) Mode



932.25MHz – 12.5kHz Channel Spacing – 4SFSK (Half Baud) Mode

