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PART 25 MEASUREMENT REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
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Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

09/02/2025 - 10/10/2025

Test Report Issue Date:

10/29/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2508250078-31.A3L

FCC ID:

A3LSMS948U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-S948U

Additional Model(s):

SM-S948U1

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (TNE)

FCC Rule Part:

25

Test Procedure(s):

ANSI C63.26-2015

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

**RJ Ortanez
Executive Vice President**



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Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 1 of 82

TEST REPORT REVISION HISTORY

Rev. No.	Report S/N	Description	Issue Date
-	1M2508250078-31.A3L	Initial Release	10/29/2025

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Test Location

Measurements were conducted at the Element laboratory indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMS948U**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 25.

Test Device Serial No.: 0532M, 0545M, 0533M, 0502M, 0789M, 0490M, 0267M, 1153M, 1154M

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1 and FR2), 802.11b/g/n/ac/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), Wireless Power Transfer, UWB, NTN, SCS

For NTN operation under B255 (1626.5 – 1660.5MHz), this device supports both 3.75kHz and 15kHz subcarrier spacings with QPSK and BPSK modulations.

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version S948USQU0AYIB installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, substitution method is used per the guidance of ANSI C63.26-2015. For emissions below 1GHz, a half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]};$$

where P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26-2015. Field Strength (EIRP) is calculated using the following formulas:

$$E_{\text{[dB}\mu\text{V/m]}} = \text{Measured amplitude level [dBm]} + 107 + \text{Cable Loss [dB]} + \text{Antenna Factor [dB/m]}$$

And

$$\text{EIRP}_{\text{[dBm]}} = E_{\text{[dB}\mu\text{V/m]}} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	AP1-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1-002
-	ETS-001	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-001
-	ETS-002	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-002
-	LTx6-40	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx6-40
-	WL25-1	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-2
Agilent	N9038A	MXE EMI Receiver	9/16/2024	Annual	11/22/2025	MY51210133
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
ETS-Lindgren	3164-05	Quad Ridge Horn (Small) 2 - 18GHz	6/4/2025	Biennial	6/4/2027	208255
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	11/25/2024	Annual	11/25/2025	100348
Rohde & Schwarz	FSV40-N	Spectrum Analyzer	9/6/2024	Annual	11/22/2025	101814

Table 5-1. Test Equipment Calibration Table

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

Component	Serial Number
Sucoflex 106A Cable	501992
MegaPhase Cable N29-N1N1-324	20335606 001
Rohde & Schwarz SF Unit	102133
MiniCircuits Cable CBL-2FT-SMSM+	77745
MegaPhase Cable 10511-1	15034701 001
MiniCircuits Switch RC 2SPDT-A18	11703270 041
Sucoflex 104 Cable	320259/4
Sucoflex 104 Cable	321999/4
Sucoflex 104 Cable	321995/4

Table 5-2. AP1-002 EMC Cable and Switch System Components

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Component	Serial Number
Pasternack Cable RG214/U	111815
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001

Table 5-3. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 5-4. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
Fairview Microwave Directional Coupler, FM2CP1122-10	2122
MCL 6dB Attenuator, Model: BW-K6 2W44+	2013
MegaPhase Cable, Model: TM40-K1K1-30	20233002 003

Table 5-5. LTx6-40 Licensed Transmitter Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM26-S1S1-36	18160103 003
Pasternack 6dB Attenuator, Model: PE7005-6	N/A

Table 5-6. WL25-1 Conducted Cable Set Components

Component	Serial Number
Mini-Circuits Cable, Model: CBL-2FT-SMSM+	77743
MCL 6dB Attenuator, Model: BW-S6W2+	1314

Table 5-7. WL25-2 Conducted Cable Set Components

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6.0 SAMPLE EMISSION DESIGNATORS

PSK Modulation

Emission Designator = 200KG7D

BW = 200 kHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMS948U
 FCC Classification: PCS Licensed Transmitter Held to Ear (TNE)
 Mode(s): NTN

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power	2.1046, 25.204(a)	40dBW(max)	PASS	Section 7.2
	Occupied Bandwidth	2.1049	N/A	PASS	Section 7.3
	Conducted Emission Mask; Conducted Spurious Emissions	2.1051, 25.202(f)	25.202(f)	PASS	Sections 7.4, 7.5
	Frequency Stability	2.1055, 25.202	<0.001% of reference frequency	PASS	Section 7.10
RADIATED	Equivalent Isotropic Radiated Power	2.1046, 25.204(a)	40dBW(max)	PASS	Section 7.6
	Radiated Spurious Emissions	25.202(f)	> 43 + 10 log ₁₀ (P[Watts]) for all out-of-band emissions	PASS	Section 7.7
	Radiated Spurious Emissions (1559 - 1610MHz)	25.216(c)(h)	< -70dBW/MHz for emissions in the band 1559 - 1605MHz < -46dBW/MHz at 1610MHz	PASS	Section 7.8
	Carrier-Off State Emissions (1559 - 1610MHz)	25.216(i)	< -80dBW/MHz for emissions in the band 1559 - 1610MHz	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst-case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.

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7.2 Conducted Output Power Data

Test Overview

All emissions are measured with a power meter connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.4.2

Test Settings

1. Detector = RMS
2. Trace mode = trace average for continuous emissions
3. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. The conducted powers were measured with FTM software used to allow 100% duty cycle transmission.
2. For NB operation in this band, the 3.75kHz and 15kHz subcarrier spacings support both QPSK and BPSK modulation as shown in the following tables.

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SCS	SC Size	Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261505	1626.6	22.91	22.81
	1SC24	261505	1626.6	23.34	23.31
	1SC47	261505	1626.6	22.91	22.91
15kHz	1SC0	261505	1626.6	23.21	23.04
	1SC6	261505	1626.6	23.84	23.73
	1SC11	261505	1626.6	23.34	23.16
	3SC0	261505	1626.6	N/A	22.65
	3SC6	261505	1626.6	N/A	22.85
	3SC9	261505	1626.6	N/A	22.65
	6SC0	261505	1626.6	N/A	22.73
	6SC6	261505	1626.6	N/A	22.83
	12SC0	261505	1626.6	N/A	22.93

Table 7-2. Conducted Power Result - Low Channel

SCS	SC Size	Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261674	1643.5	22.91	22.98
	1SC24	261674	1643.5	23.37	23.45
	1SC47	261674	1643.5	22.92	22.91
15kHz	1SC0	261674	1643.5	23.31	23.29
	1SC6	261674	1643.5	23.51	23.51
	1SC11	261674	1643.5	23.14	23.21
	3SC0	261674	1643.5	N/A	23.04
	3SC6	261674	1643.5	N/A	23.05
	3SC9	261674	1643.5	N/A	23.02
	6SC0	261674	1643.5	N/A	23.14
	6SC6	261674	1643.5	N/A	23.19
	12SC0	261674	1643.5	N/A	22.99

Table 7-3. Conducted Power Result - Mid Channel

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SCS	SC Size	Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261843	1660.4	23.06	22.99
	1SC24	261843	1660.4	23.44	23.49
	1SC47	261843	1660.4	23.04	22.97
15kHz	1SC0	261843	1660.4	23.24	23.31
	1SC6	261843	1660.4	23.74	23.68
	1SC11	261843	1660.4	23.27	23.32
	3SC0	261843	1660.4	N/A	23.35
	3SC6	261843	1660.4	N/A	23.27
	3SC9	261843	1660.4	N/A	23.24
	6SC0	261843	1660.4	N/A	23.60
	6SC6	261843	1660.4	N/A	23.52
	12SC0	261843	1660.4	N/A	23.47

Table 7-4. Conducted Power Result - High Channel

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7.3 Occupied Bandwidth

Test Overview

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. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26-2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

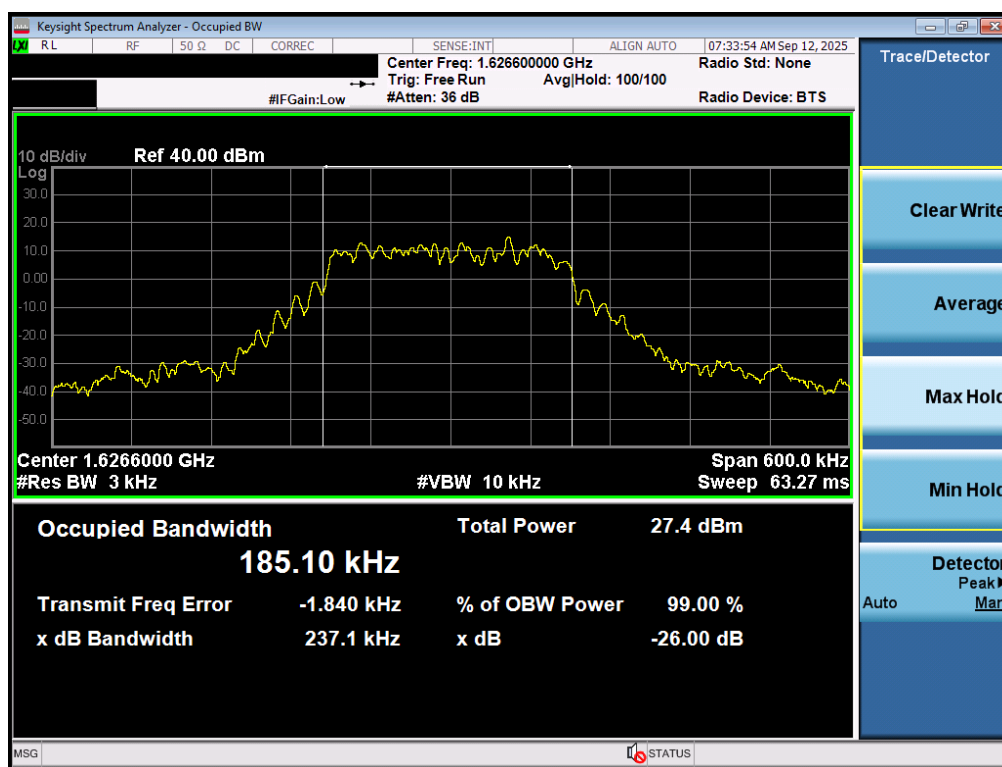
Test Notes

None.

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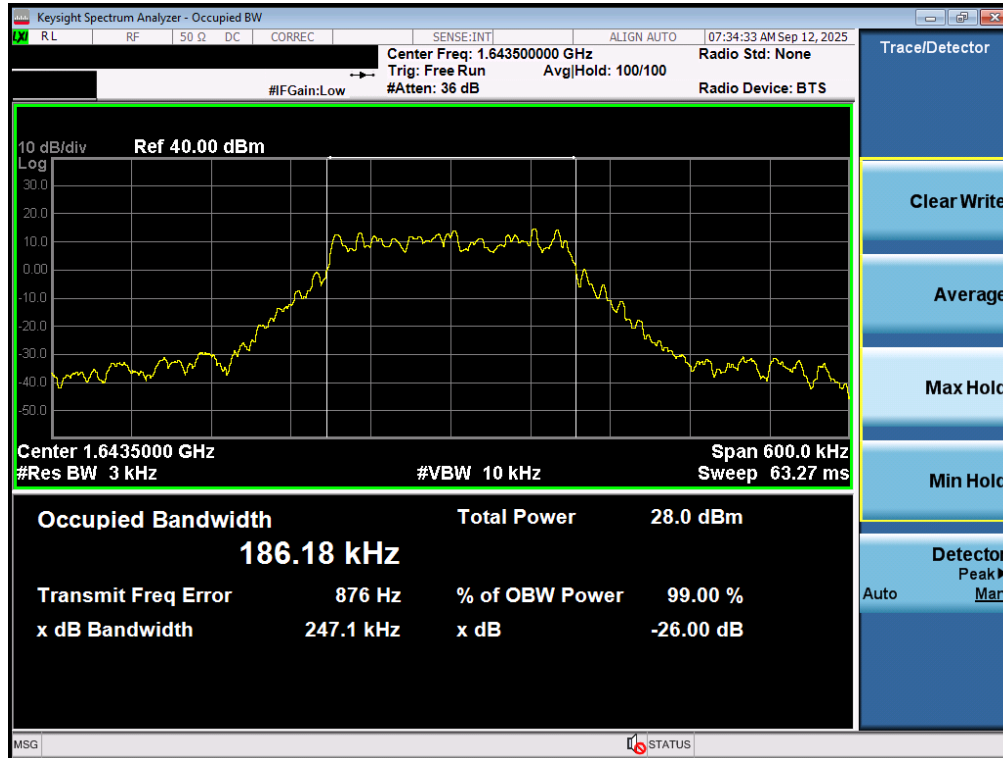
Mode	SCS / SC Size	Modulation	Channel	OBW [kHz]
NTN BAND 255	15kHz/ 12SC0	QPSK	Low	185.10
		QPSK	Low	186.18
		QPSK	High	186.39

Table 7-5. Occupied Bandwidth Results

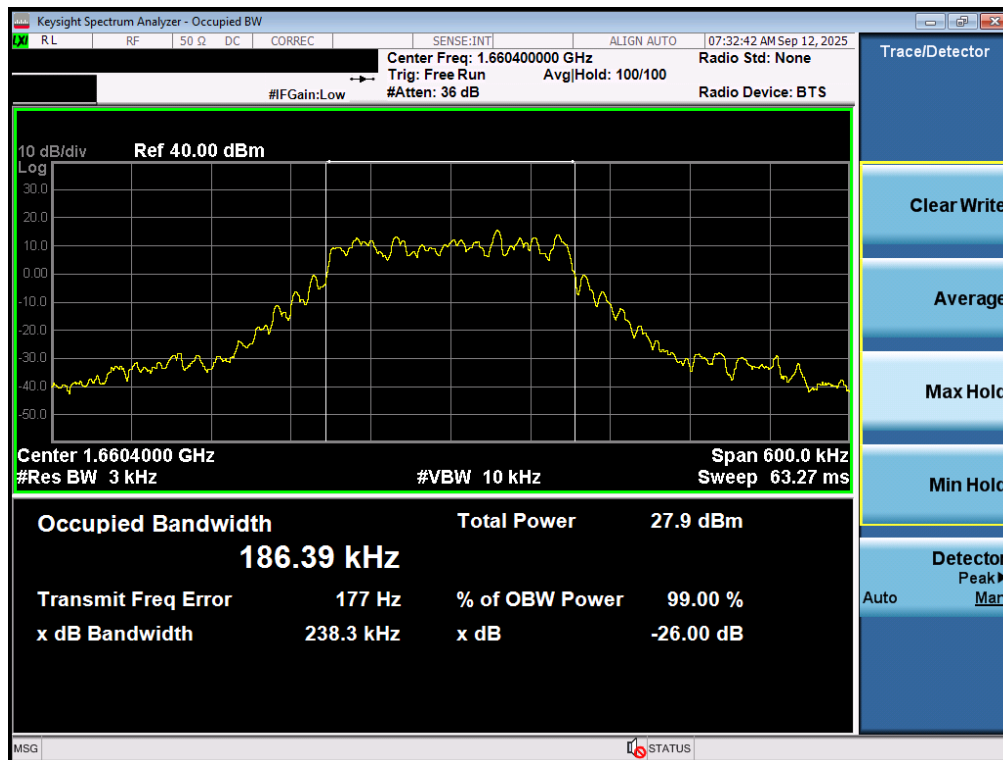


Plot 7-1. Bandwidth Plot (Band n255, Low Channel)

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Plot 7-2. Bandwidth Plot (Band n255, Mid Channel)



Plot 7-3. Bandwidth Plot (Band n255, High Channel)

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7.4 Conducted Emissions Mask

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Per FCC Part 25.202(f):

Emission limitations.

(1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB;

(2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. EUT is connected to the spectrum analyzer.
2. Highest Power within the transmitting signal is measured.
3. Worst Case Emissions are identified and measured
4. See Notes regarding RBW

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

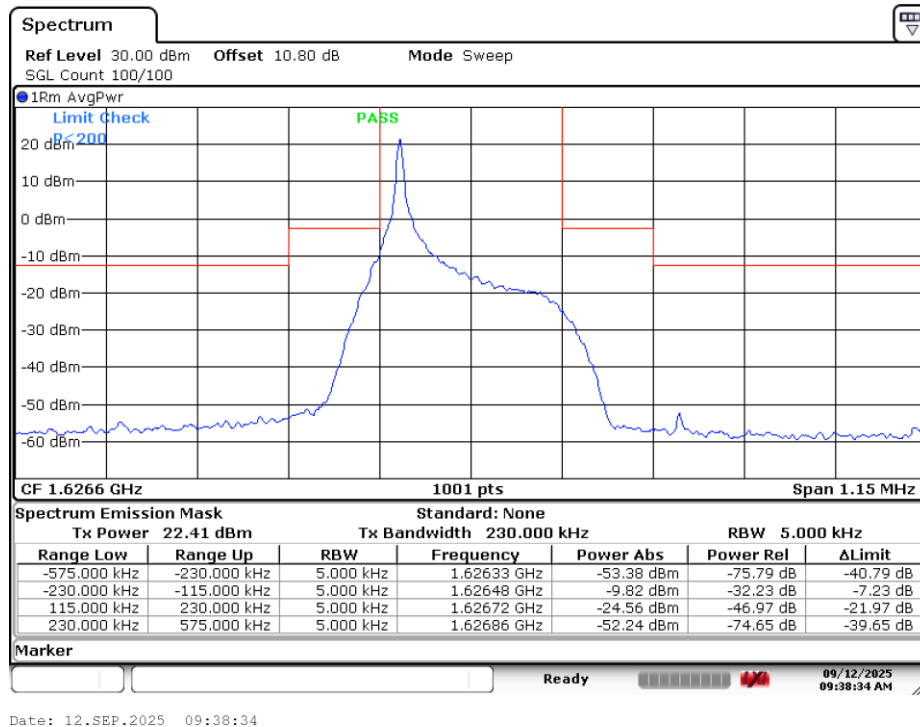


Figure 7-3. Test Instrument & Measurement Setup

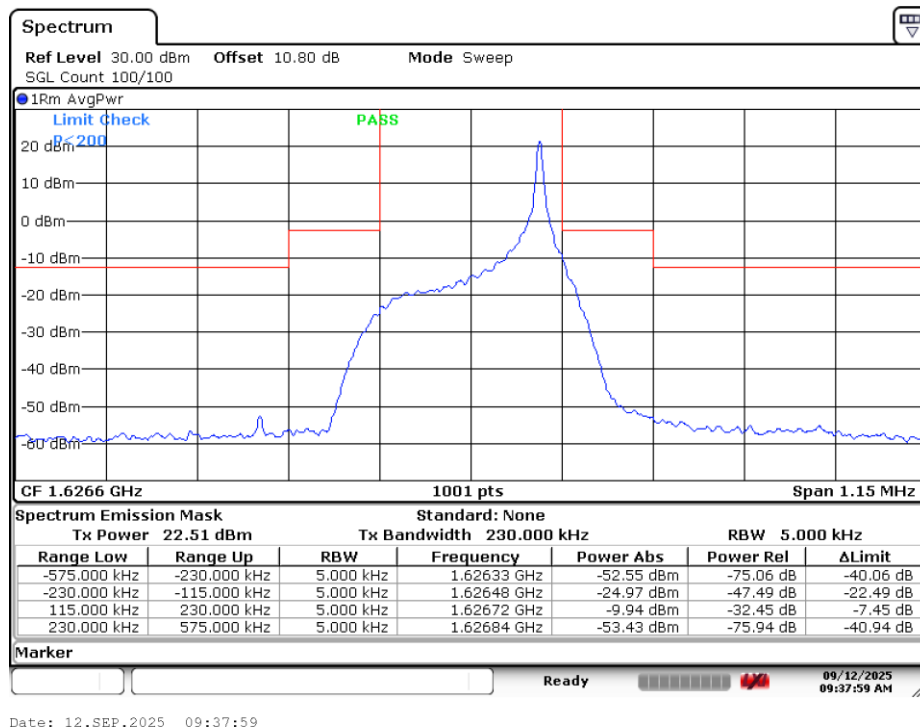
Test Notes

1. Due to measurement equipment limitations a RBW of 4KHz is not available. To ensure worst-case result a RBW = 5kHz and a VBW = 20kHz was utilized.
2. For purposes of the emission mask testing in this section, the manufacturer has declared an authorized bandwidth of 230kHz.
3. Limit lines are based on dBc limits in FCC Part 25.202(f), this is based of the measured carrier power using the Spectrum Emission Mask function of the spectrum analyzer.

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 18 of 82

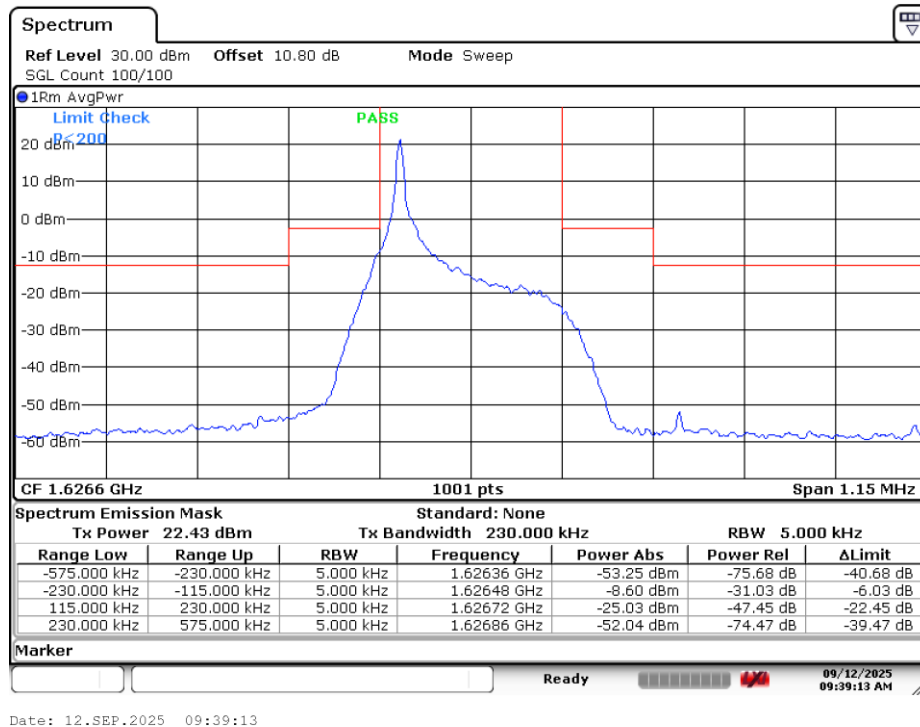


Plot 7-4. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – BPSK

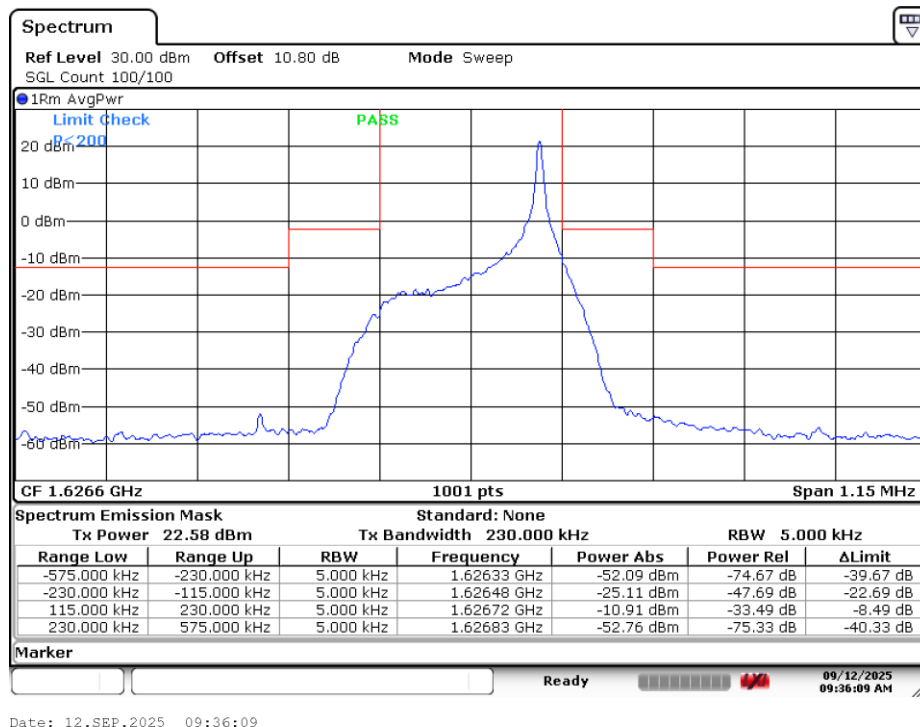


Plot 7-5. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 19 of 82

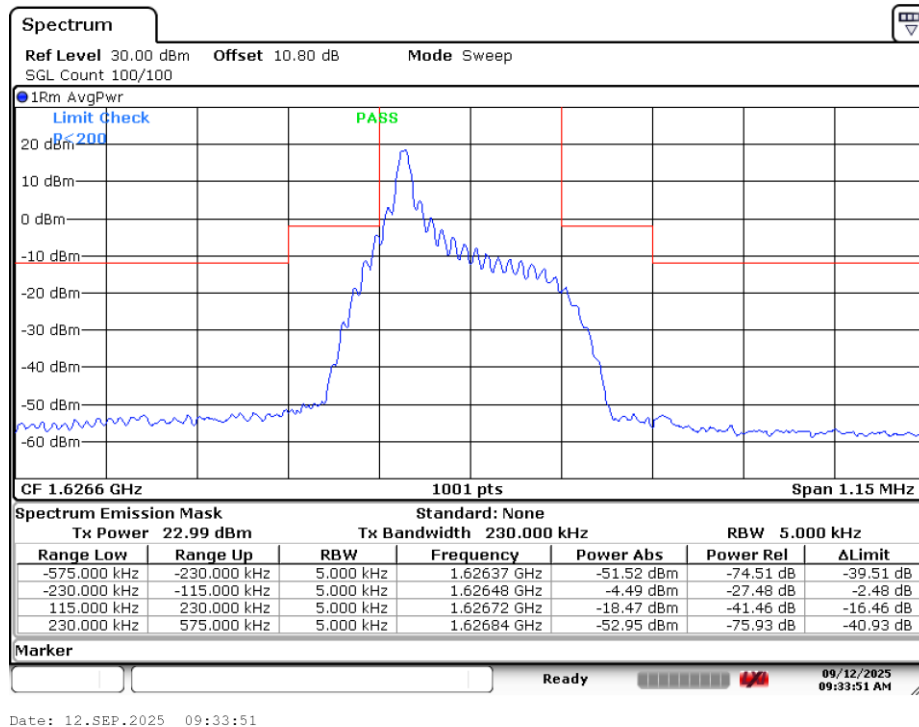


Plot 7-6. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – QPSK

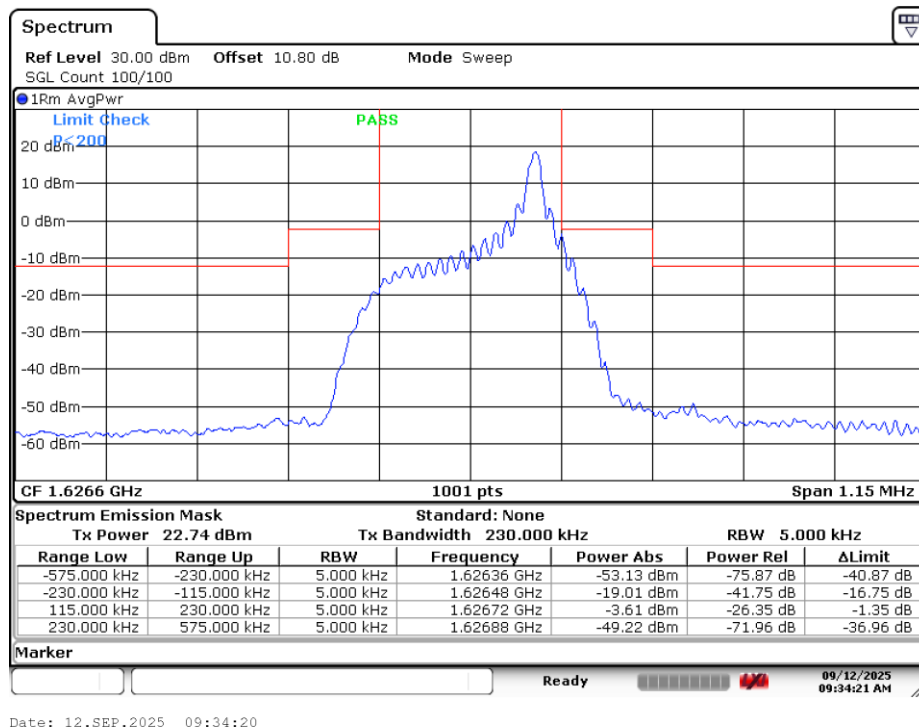


Plot 7-7. Low Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 20 of 82

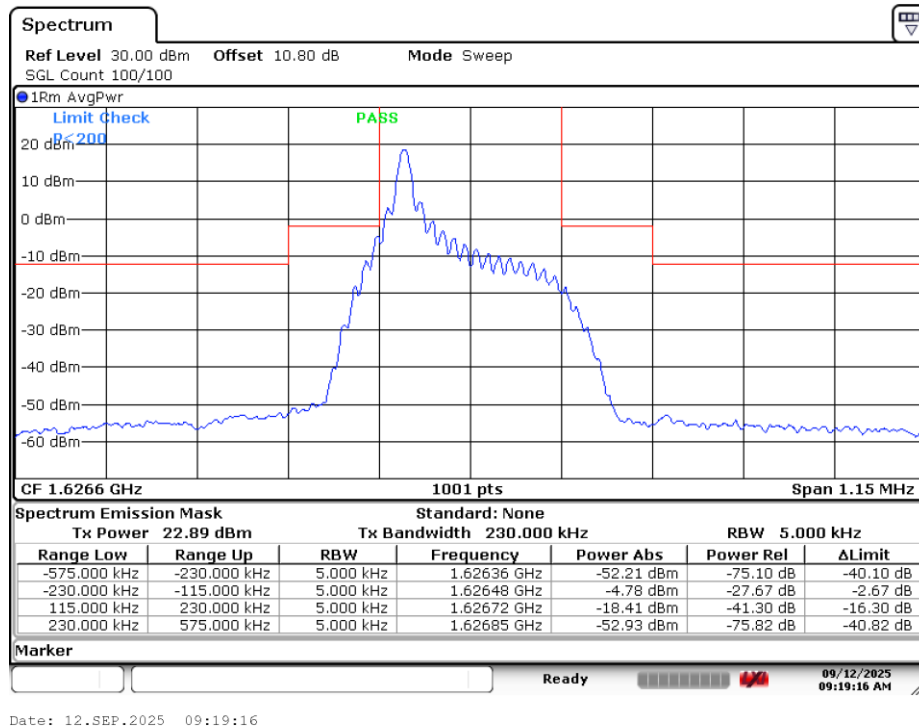


Plot 7-8. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – BPSK

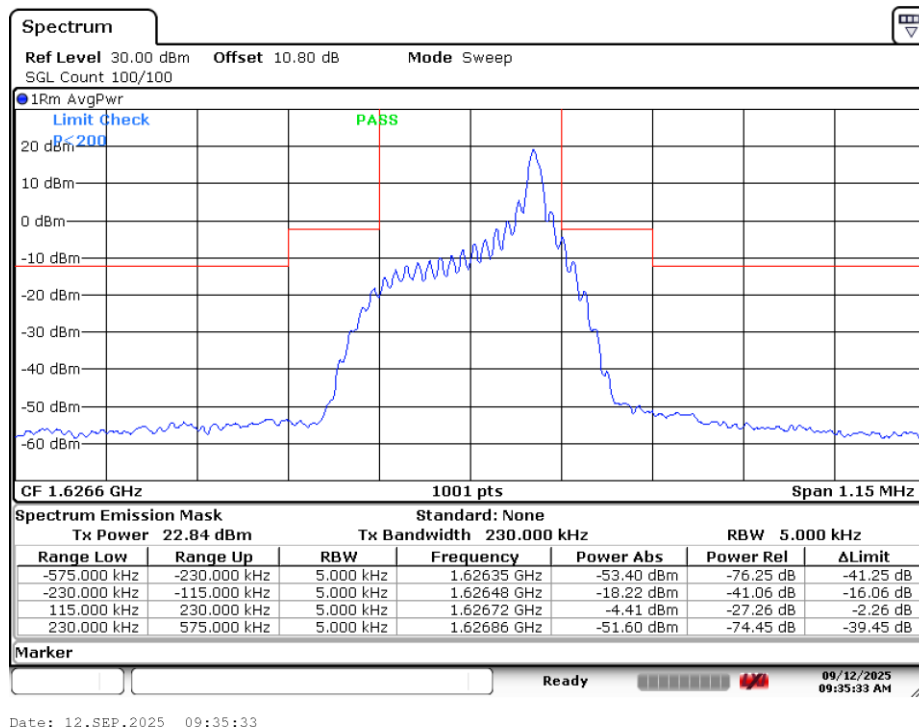


Plot 7-9. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 21 of 82

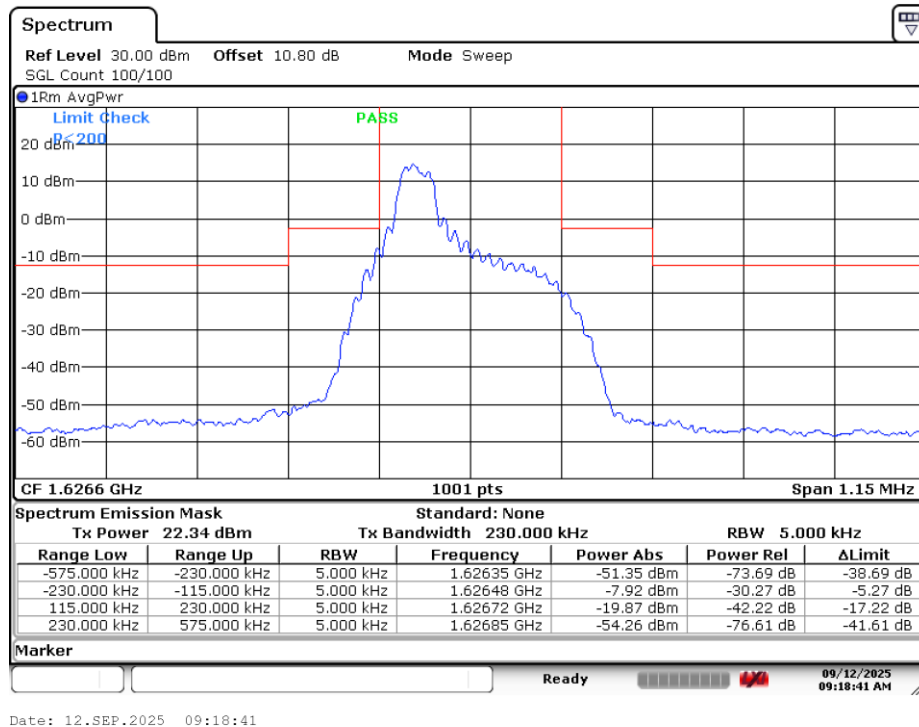


Plot 7-10. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – QPSK

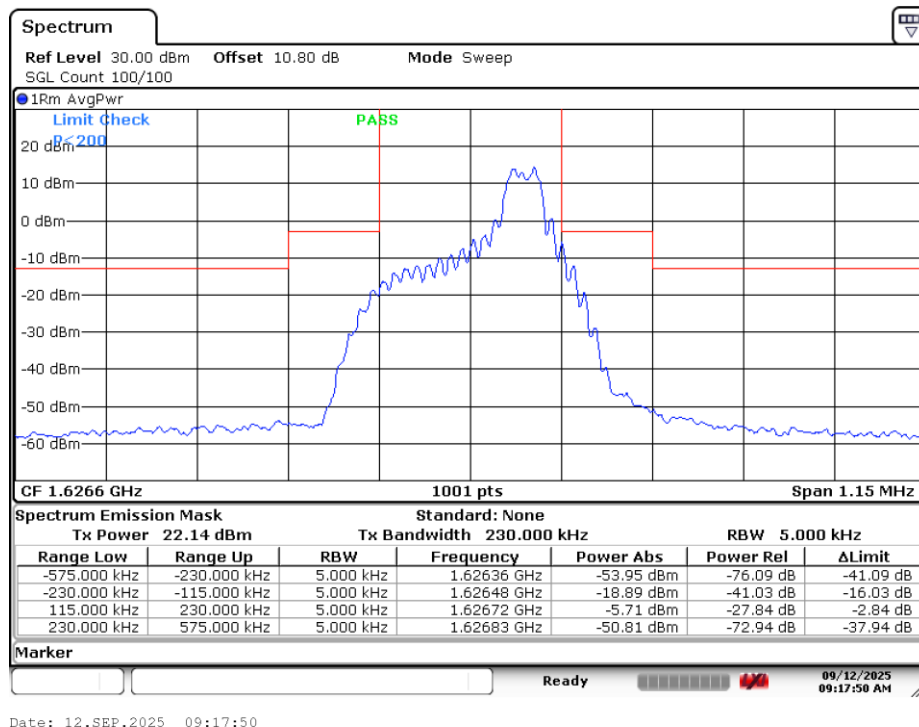


Plot 7-11. Low Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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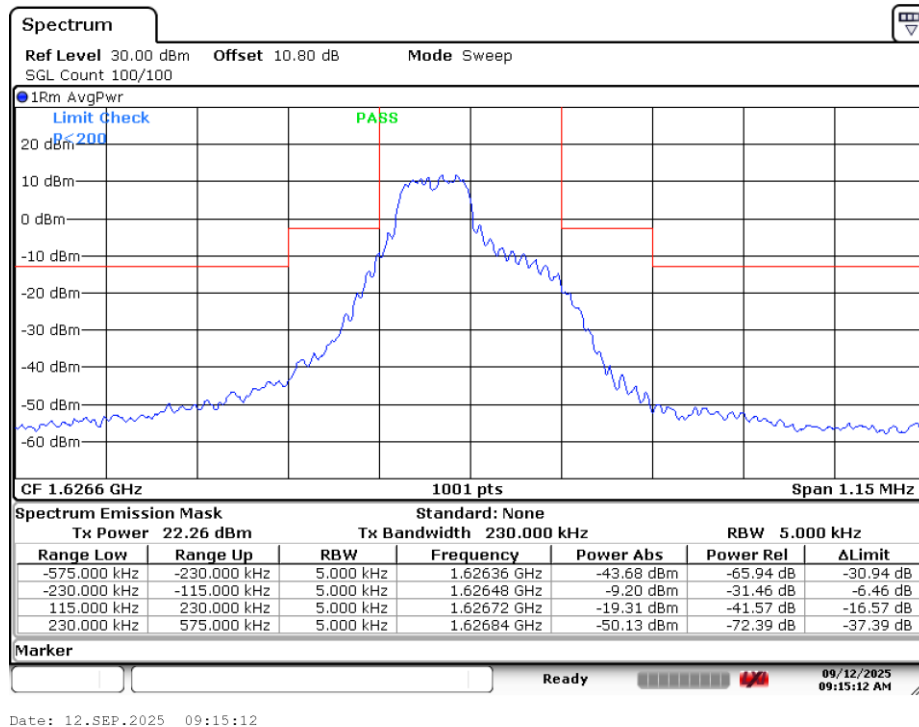


Plot 7-12. Low Channel Conducted Emission Mask – 15kHz SCS – 3SC0

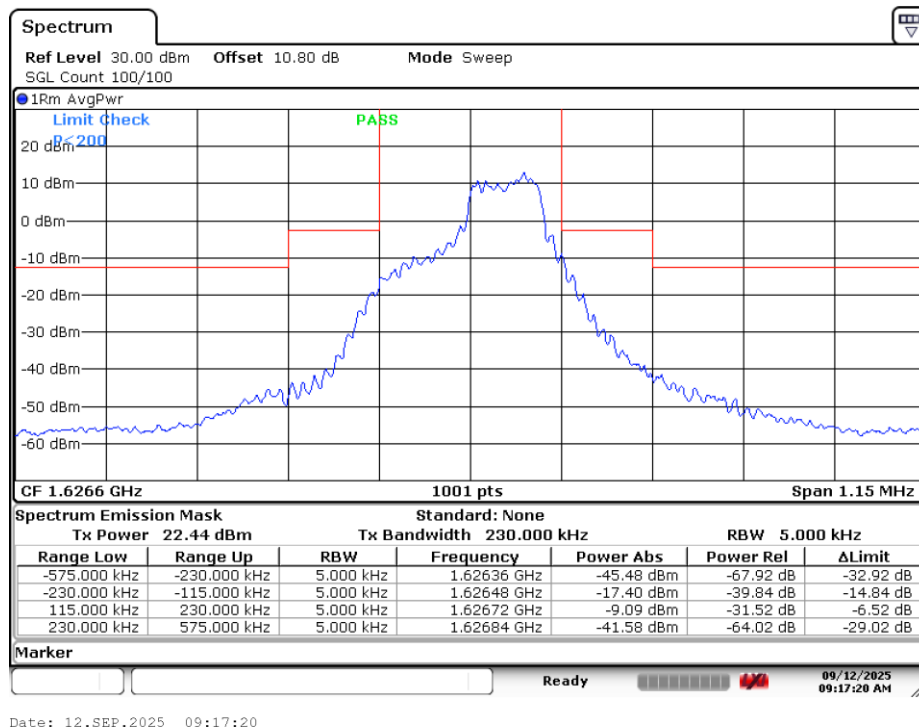


Plot 7-13. Low Channel Conducted Emission Mask – 15kHz SCS – 3SC9

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 23 of 82

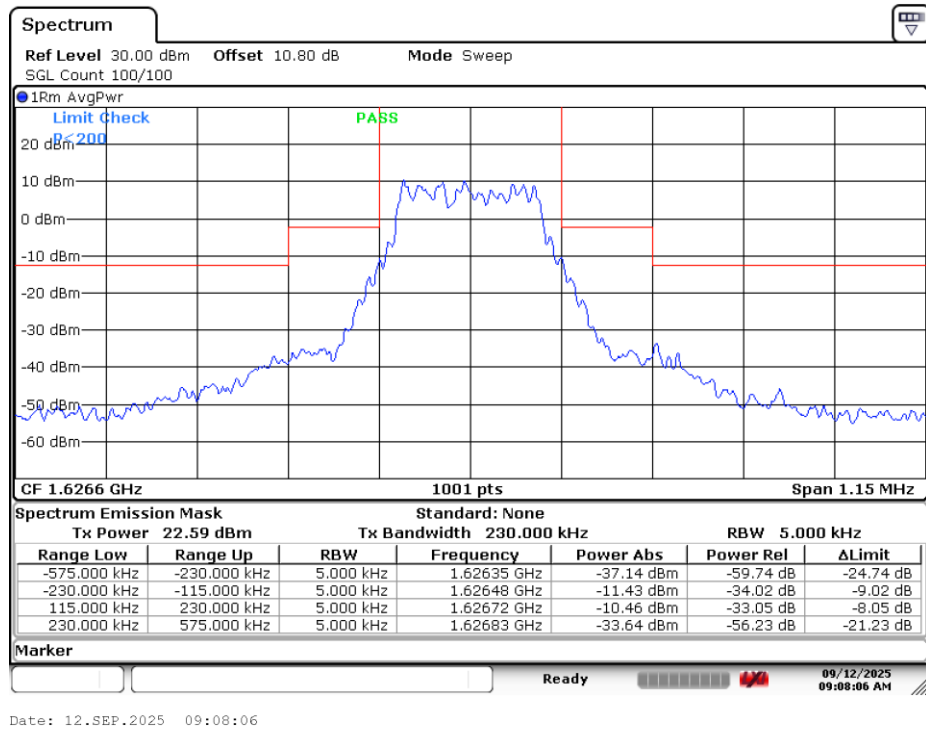


Plot 7-14. Low Channel Conducted Emission Mask – 15kHz SCS – 6SC0



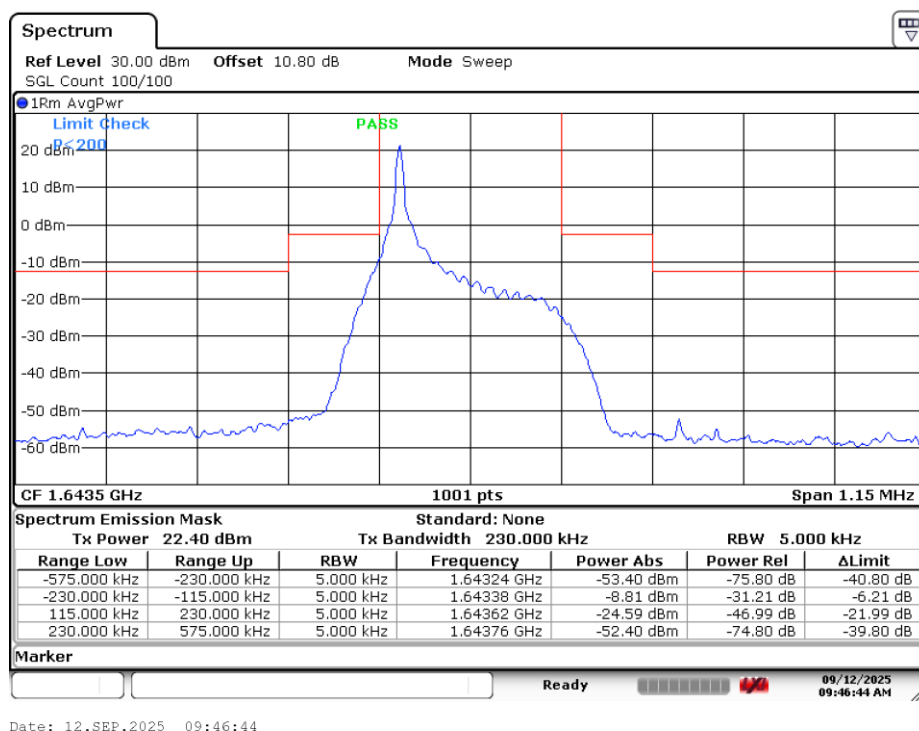
Plot 7-15. Low Channel Conducted Emission Mask – 15kHz SCS – 6SC6

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 24 of 82

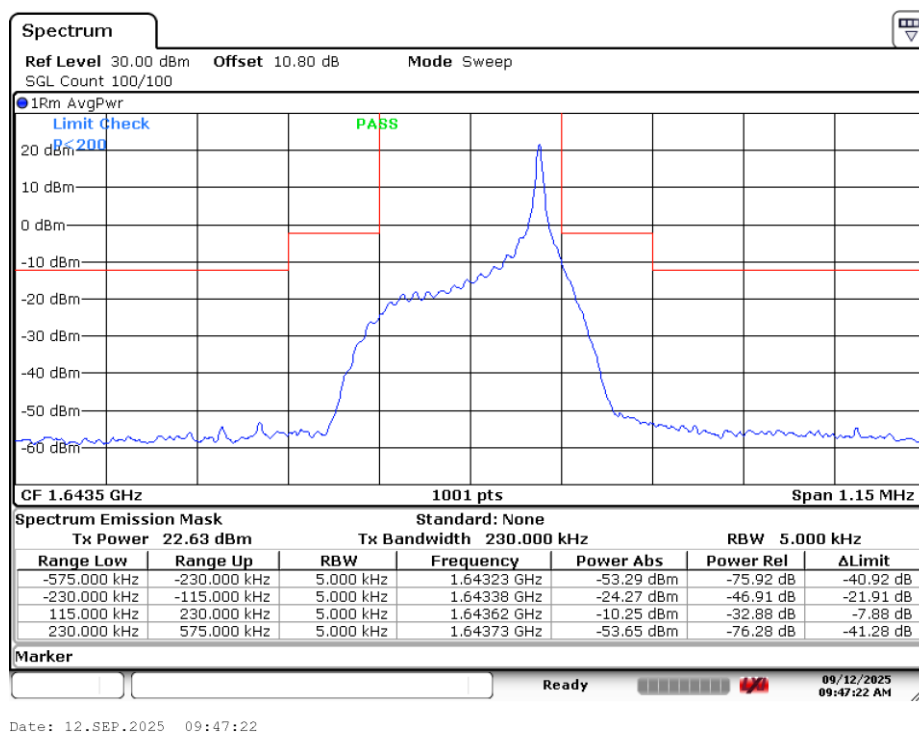


Plot 7-16. Low Channel Conducted Emission Mask – 15kHz SCS – 12SC0

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 25 of 82

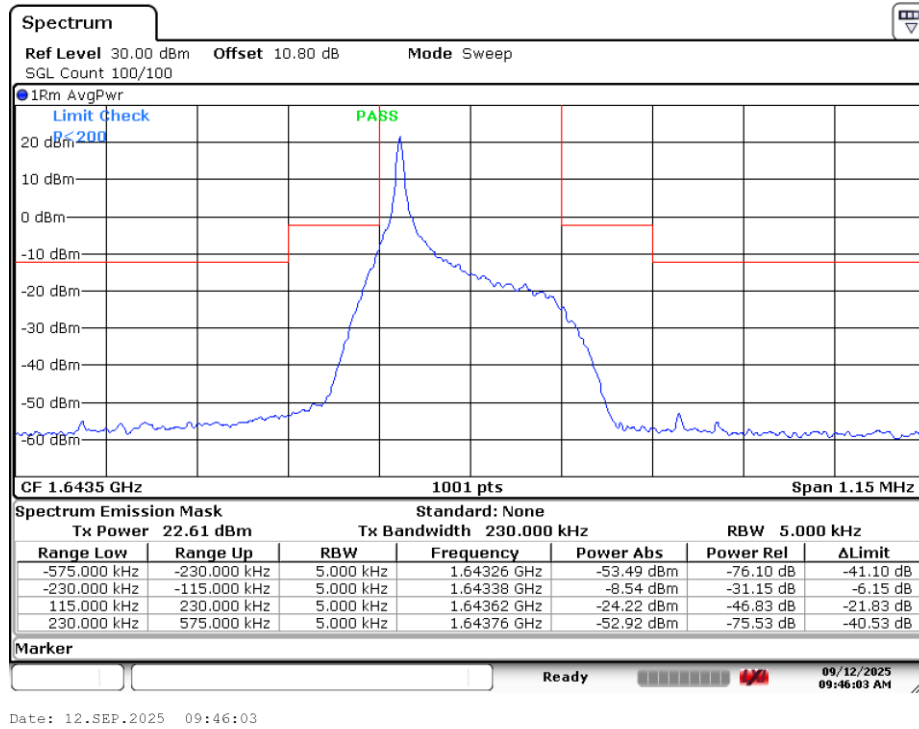


Plot 7-17. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – BPSK

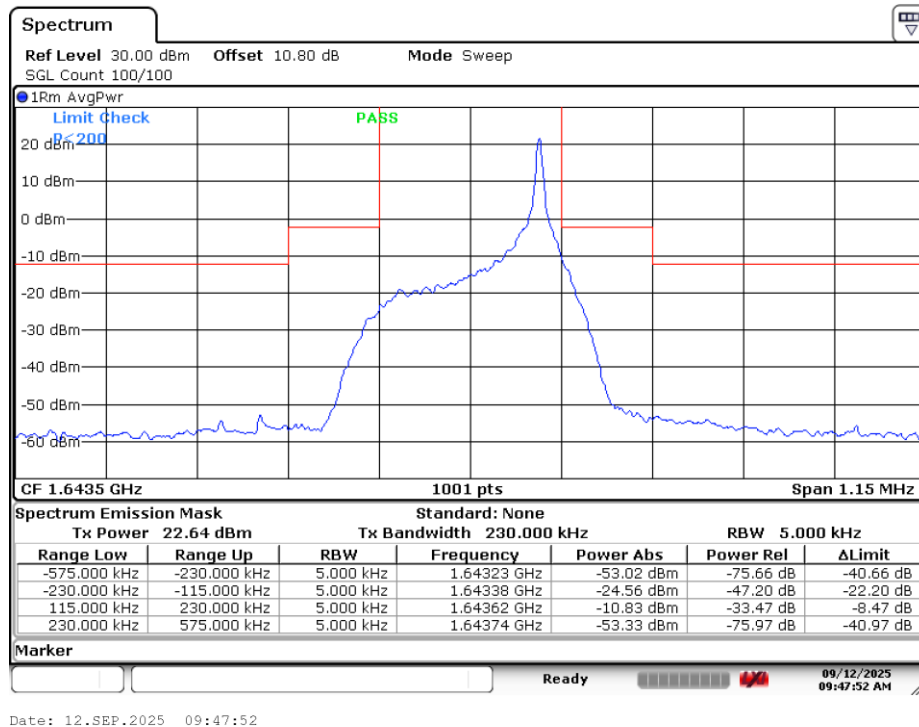


Plot 7-18. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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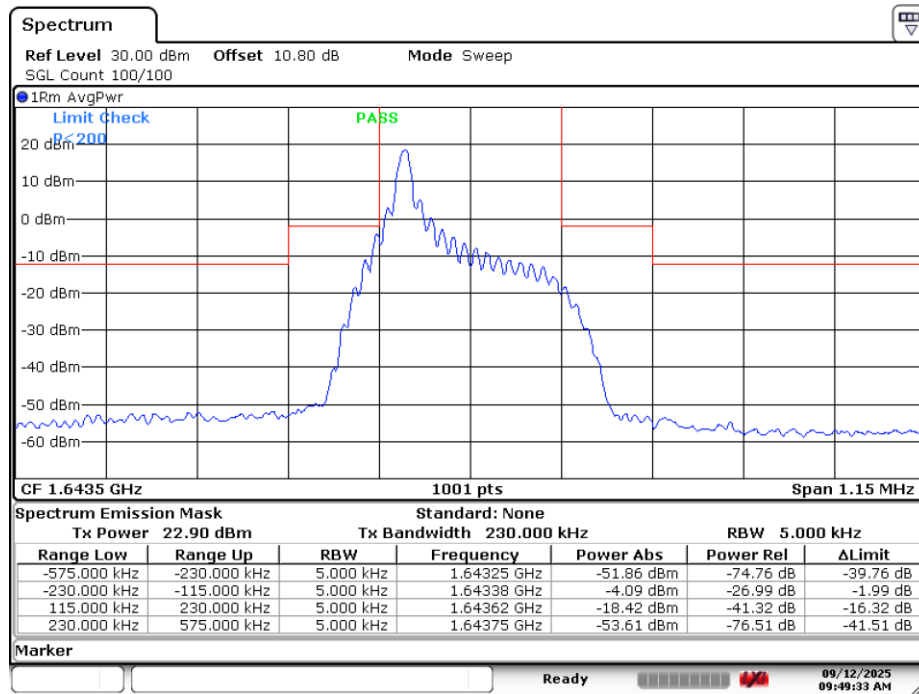


Plot 7-19. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – QPSK



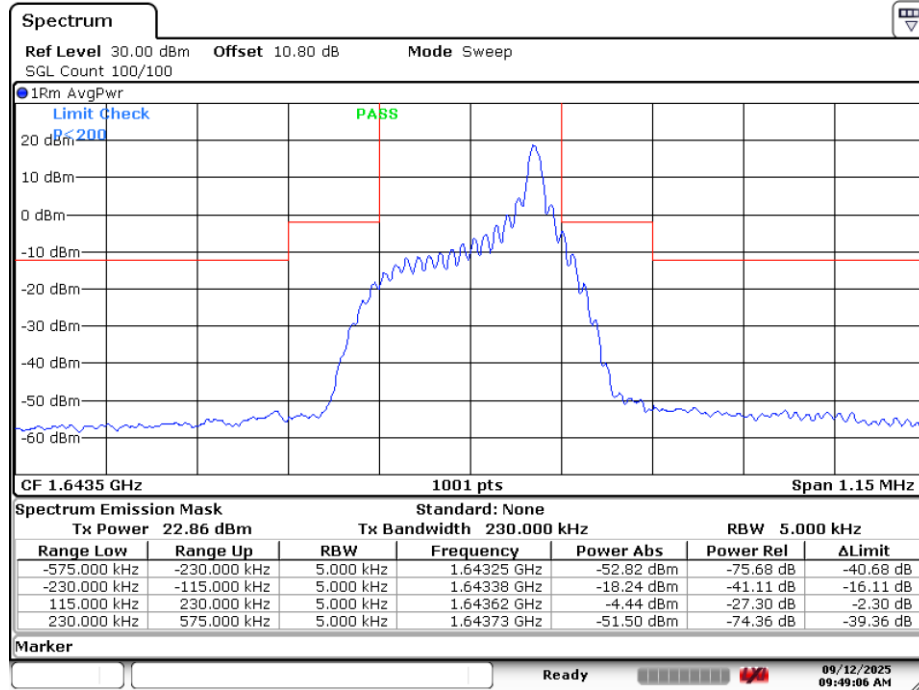
Plot 7-20. Mid Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 27 of 82



Date: 12.SEP.2025 09:49:33

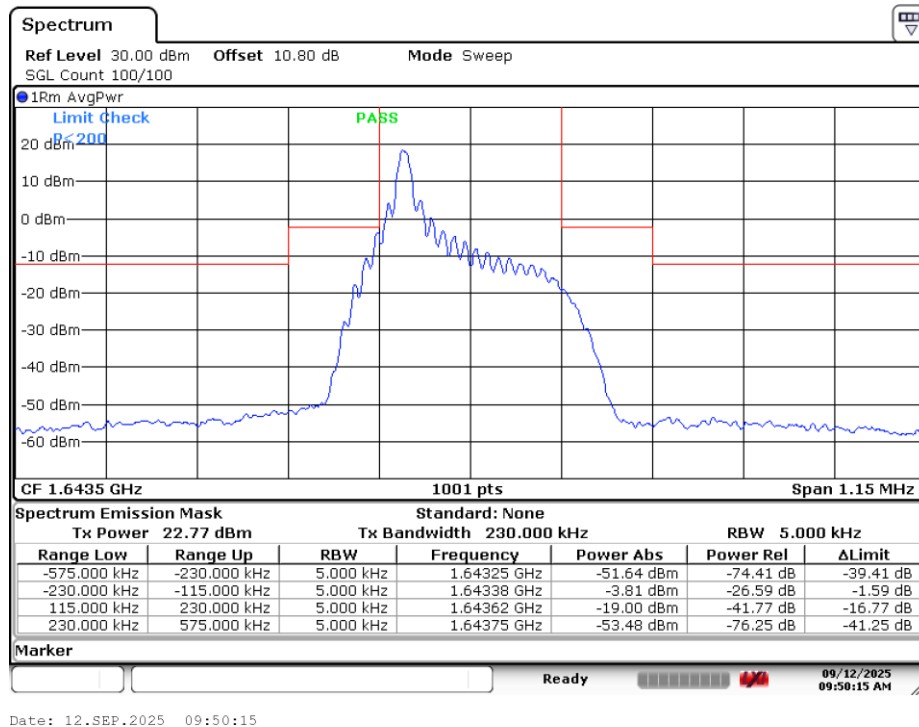
Plot 7-21. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – BPSK



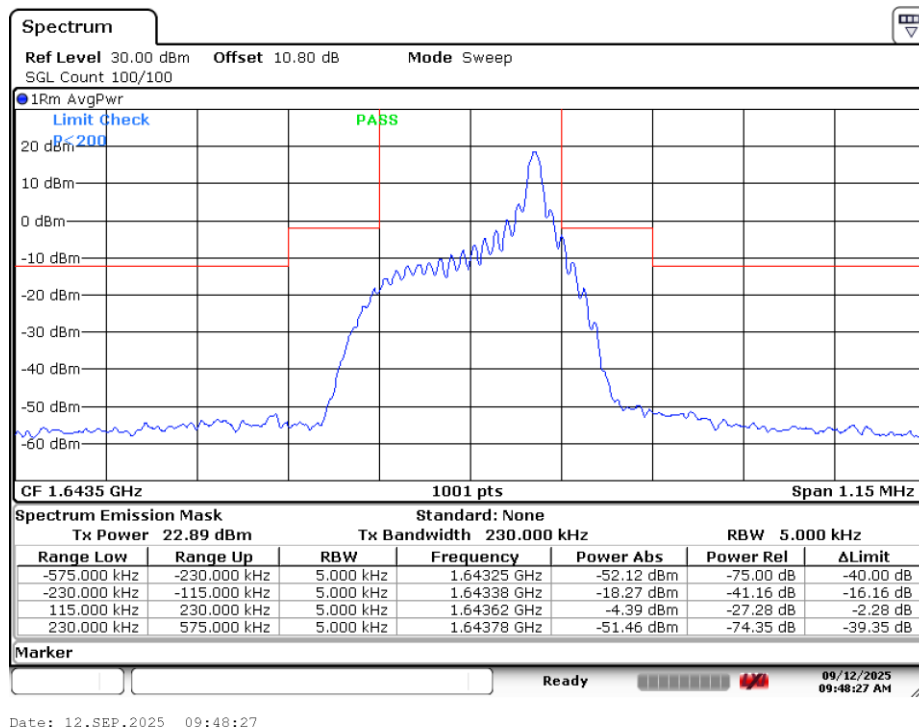
Date: 12.SEP.2025 09:49:06

Plot 7-22. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 28 of 82

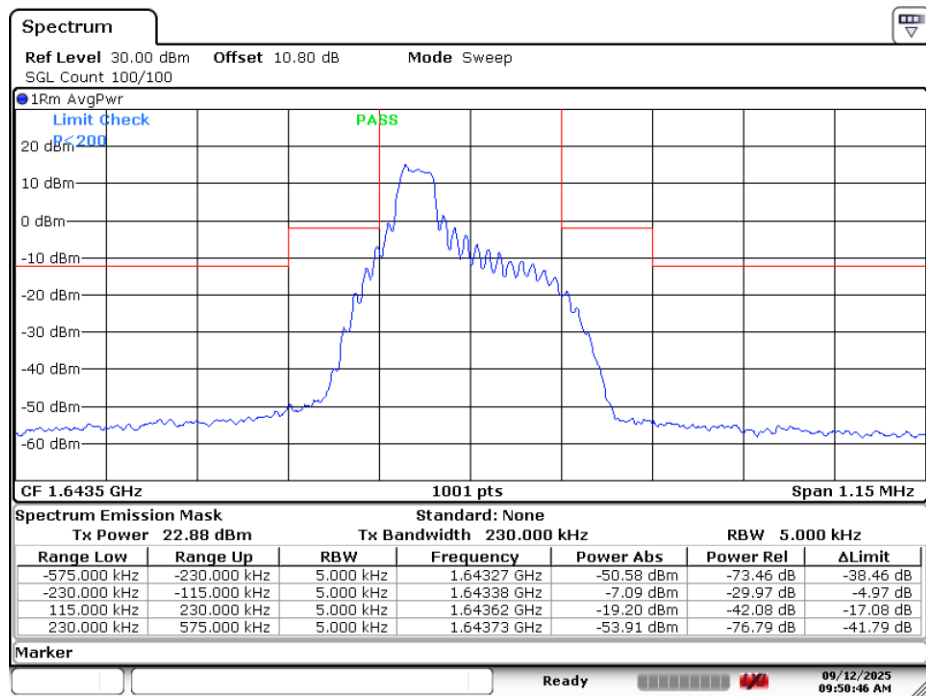


Plot 7-23. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – QPSK



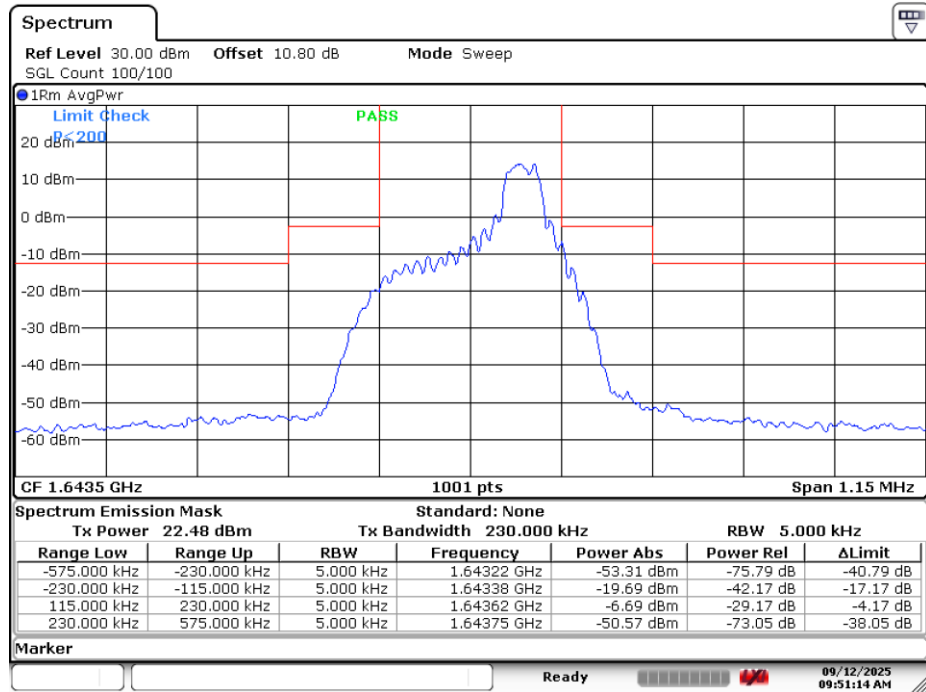
Plot 7-24. Mid Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 29 of 82



Date: 12.SEP.2025 09:50:46

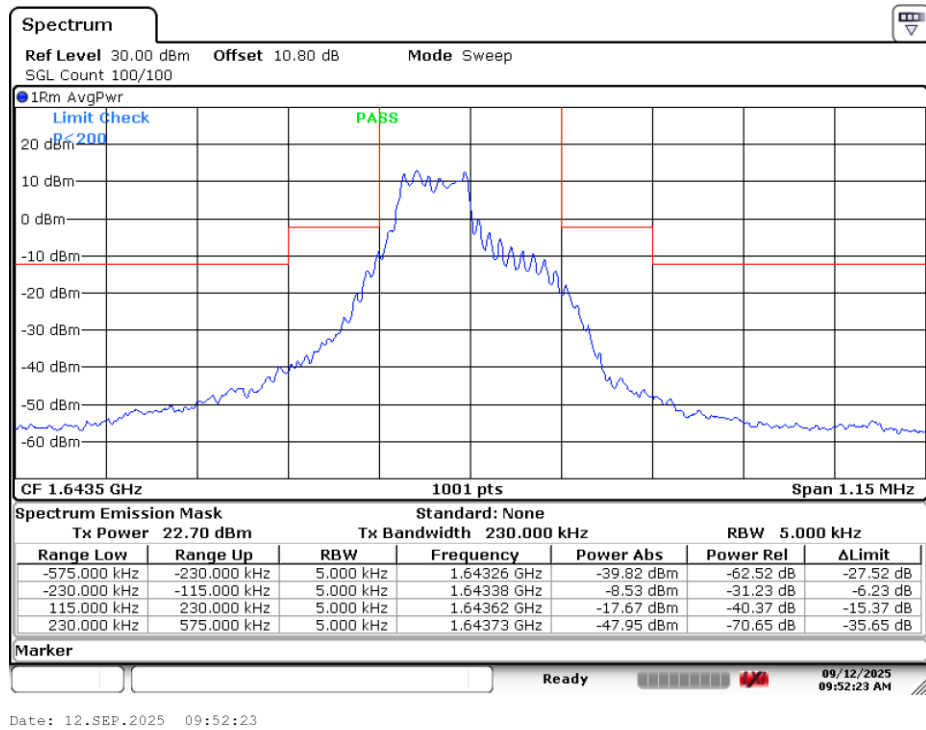
Plot 7-25. Mid Channel Conducted Emission Mask – 15kHz SCS – 3SC0



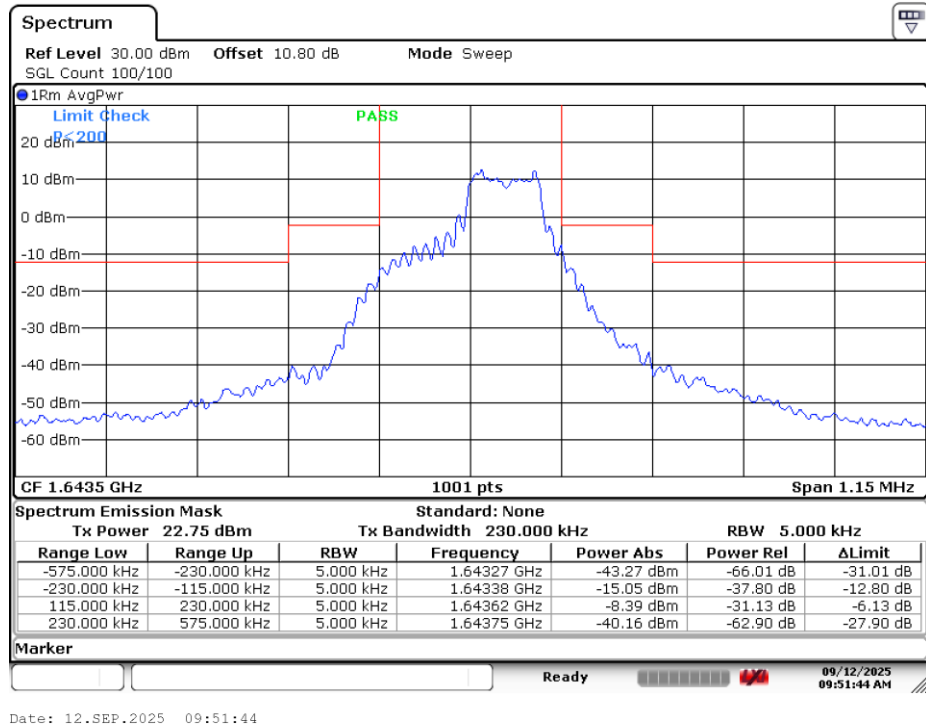
Date: 12.SEP.2025 09:51:14

Plot 7-26. Mid Channel Conducted Emission Mask – 15kHz SCS – 3SC9

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 30 of 82

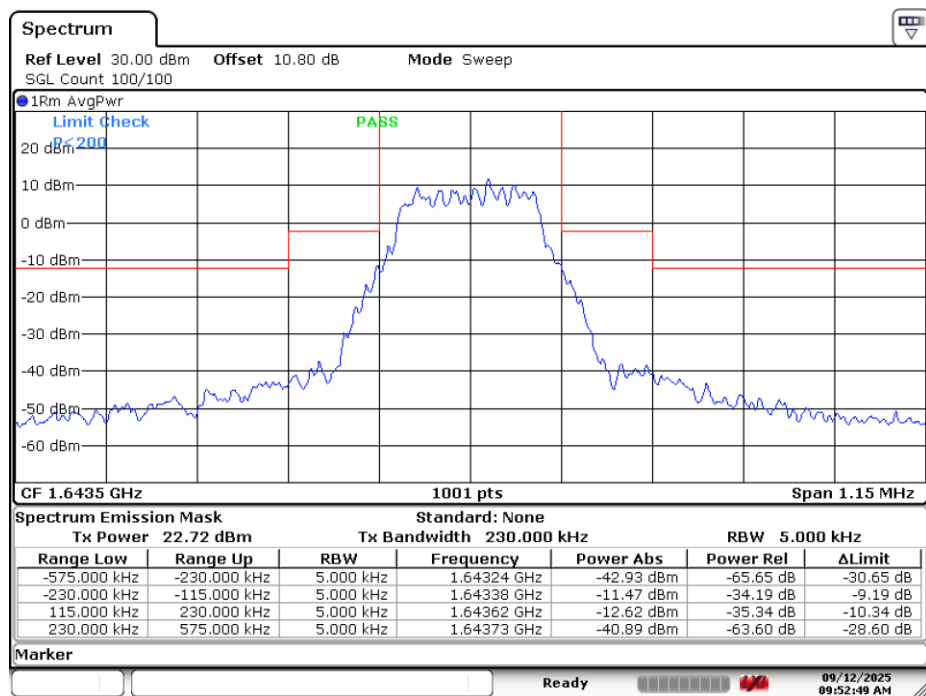


Plot 7-27. Mid Channel Conducted Emission Mask – 15kHz SCS – 6SC0



Plot 7-28. Mid Channel Conducted Emission Mask – 15kHz SCS – 6SC6

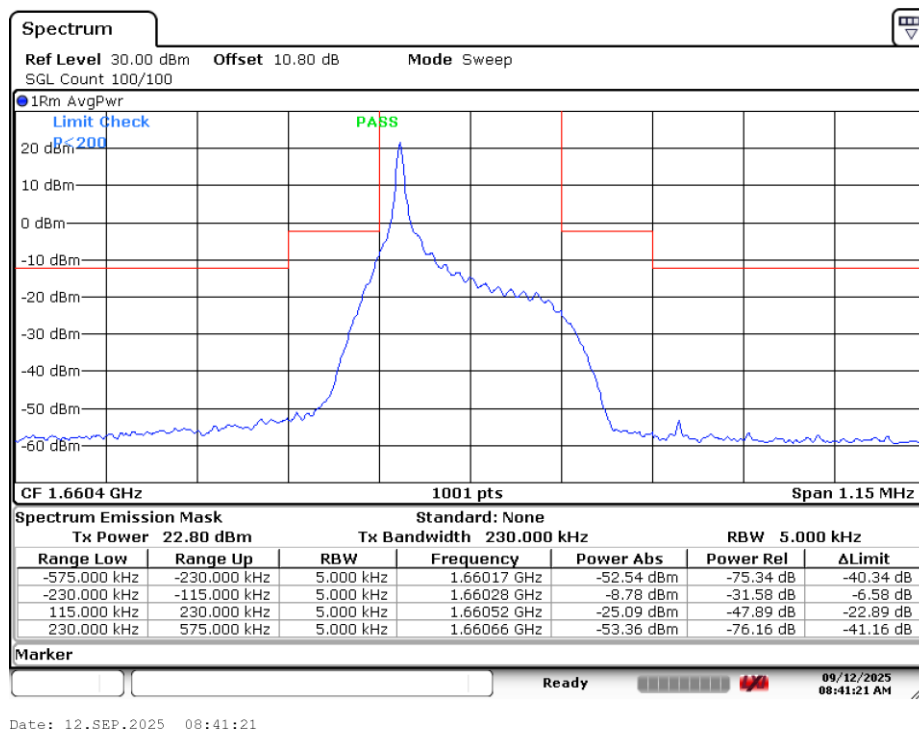
FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 31 of 82



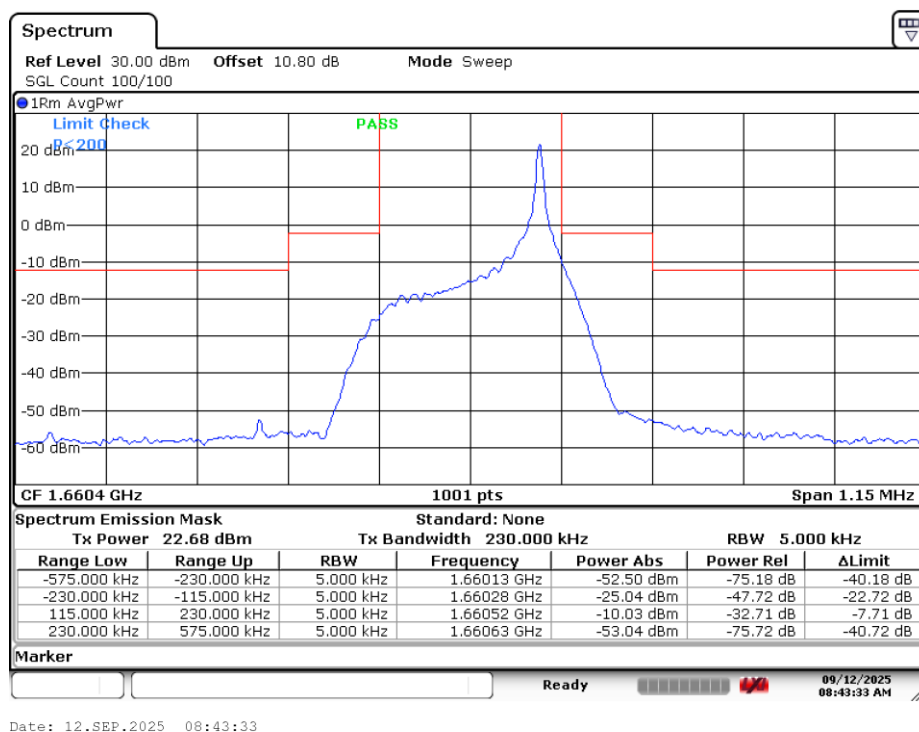
Date: 12.SEP.2025 09:52:49

Plot 7-29. Mid Channel Conducted Emission Mask – 15kHz SCS – 12SC0

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 32 of 82

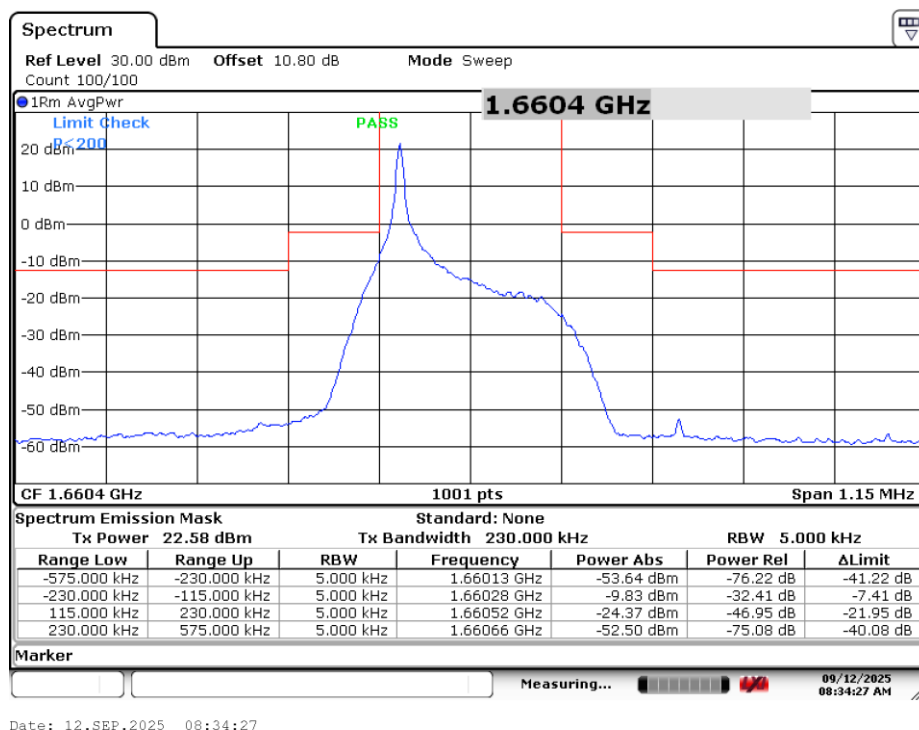


Plot 7-30. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – BPSK

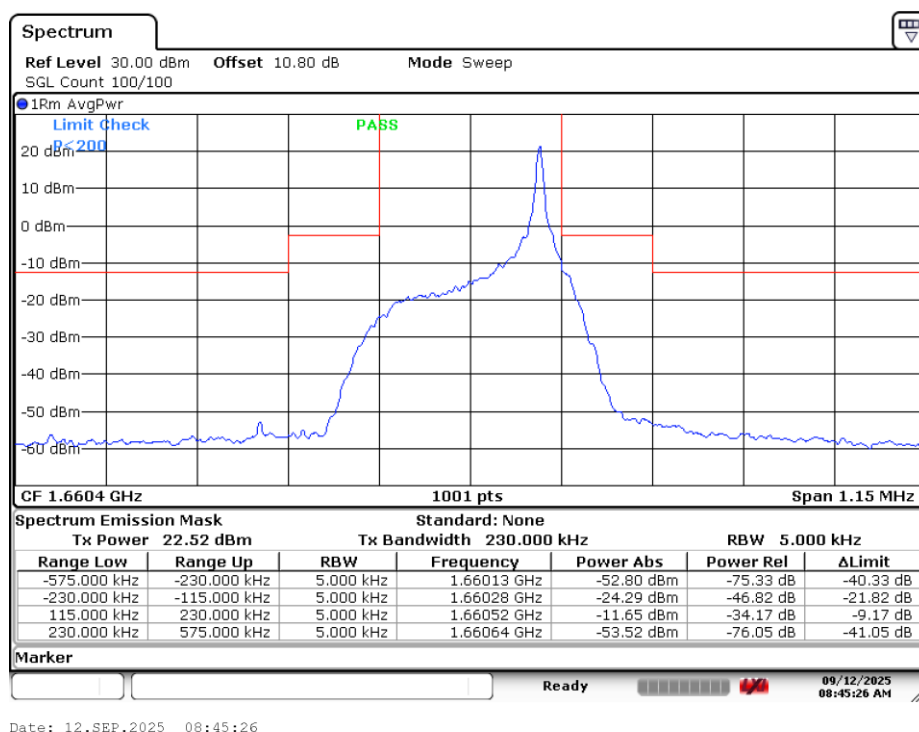


Plot 7-31. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 33 of 82

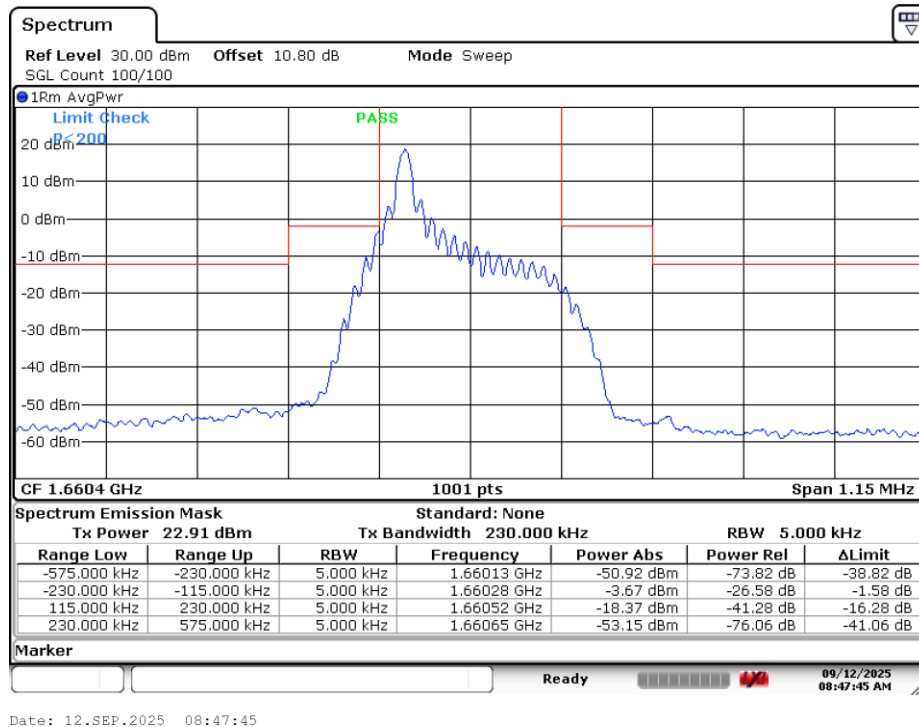


Plot 7-32. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC0 – QPSK

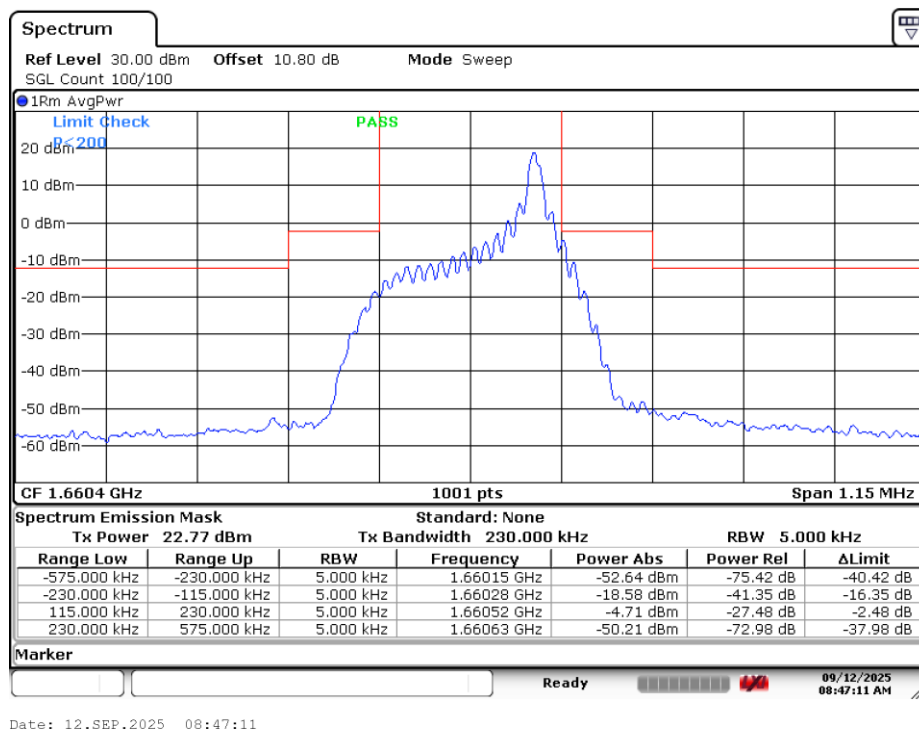


Plot 7-33. High Channel Conducted Emission Mask – 3.75kHz SCS – 1SC47 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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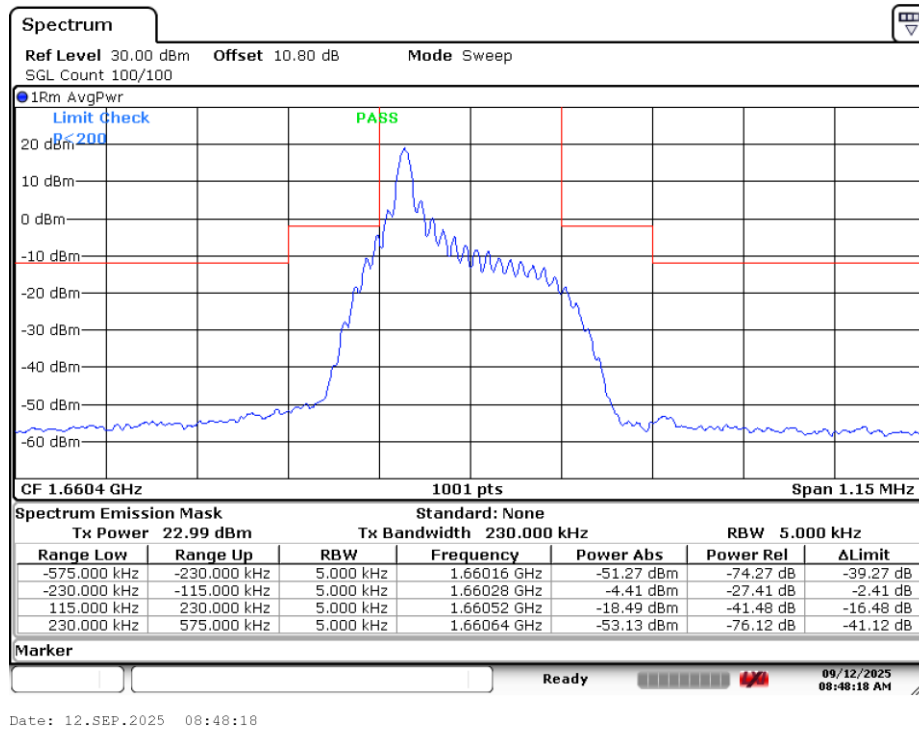


Plot 7-34. High Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – BPSK

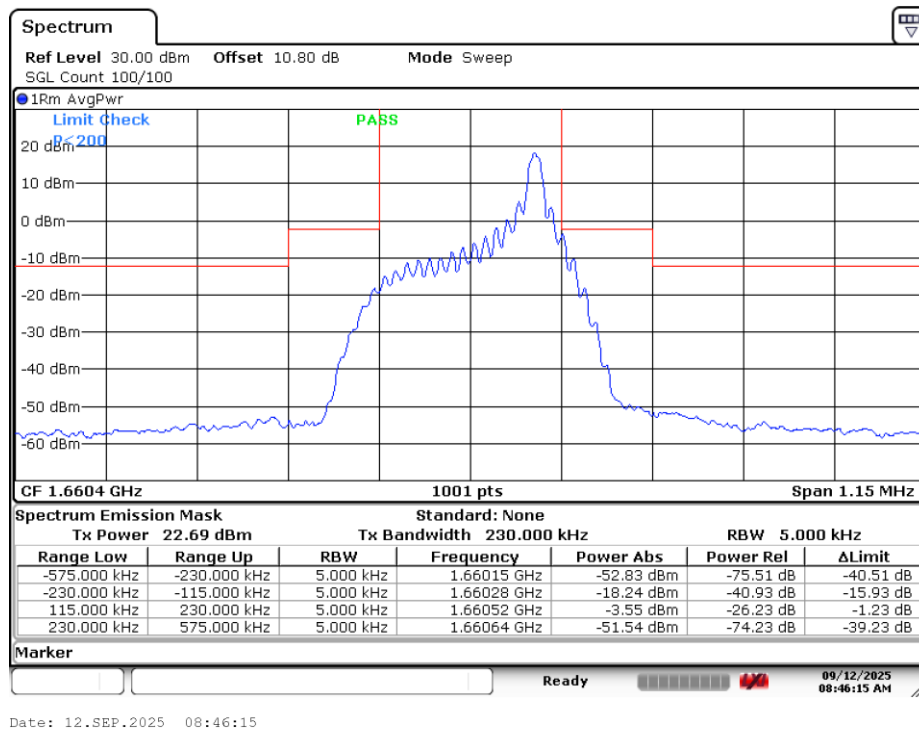


Plot 7-35. High Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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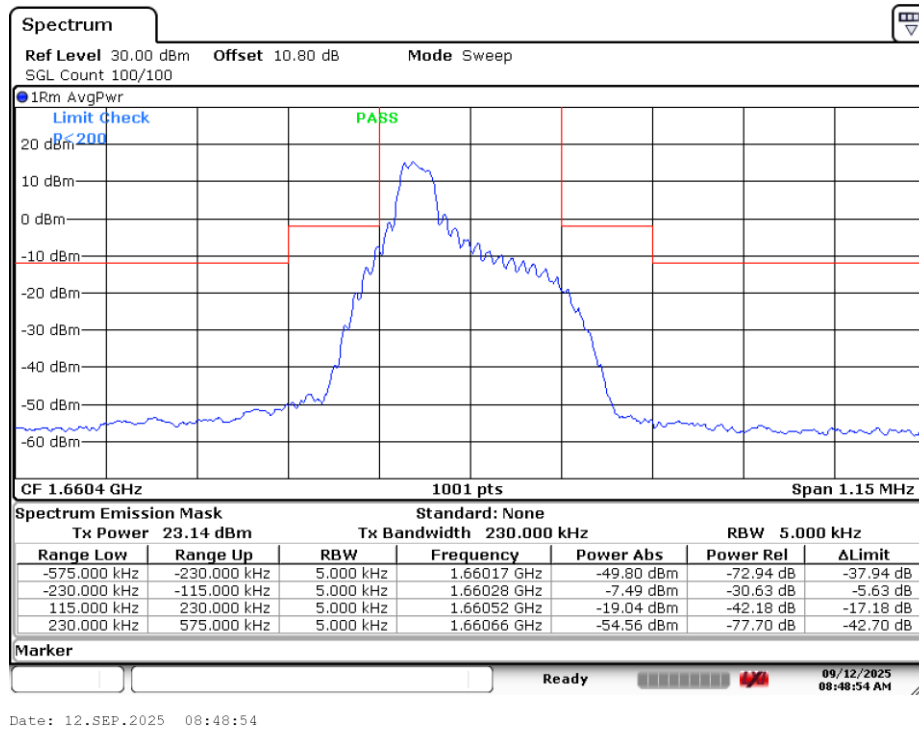


Plot 7-36. High Channel Conducted Emission Mask – 15kHz SCS – 1SC0 – QPSK

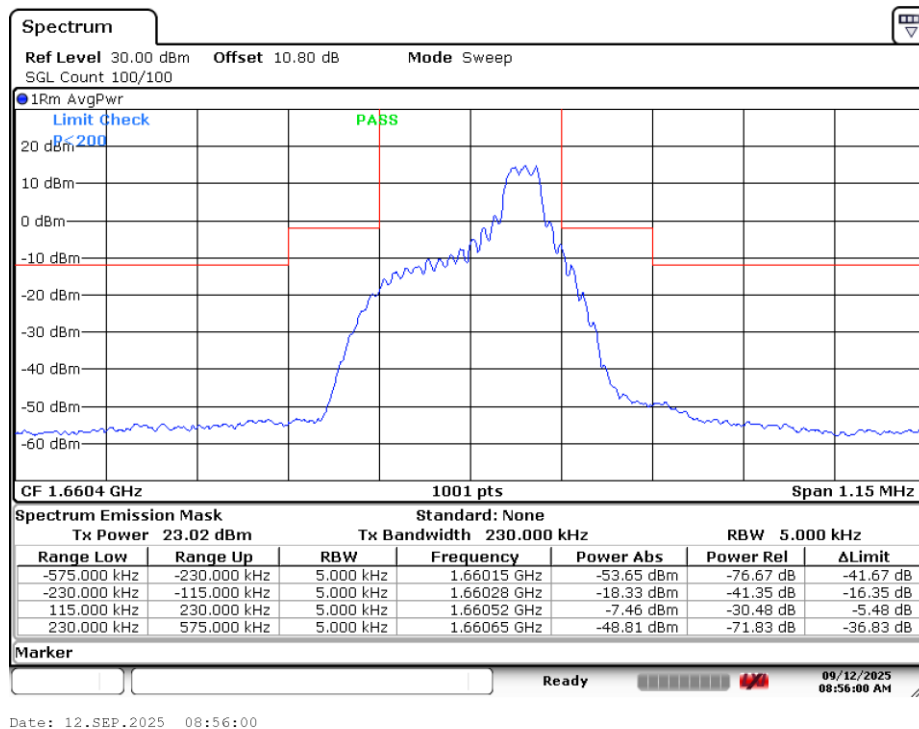


Plot 7-37. High Channel Conducted Emission Mask – 15kHz SCS – 1SC11 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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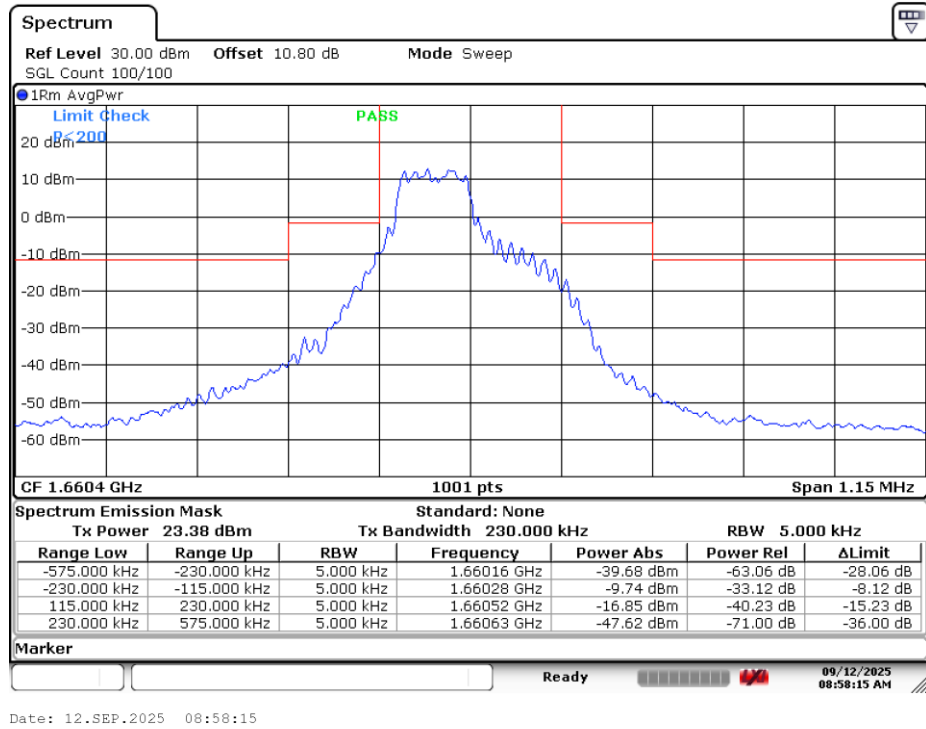


Plot 7-38. High Channel Conducted Emission Mask – 15kHz SCS – 3SC0

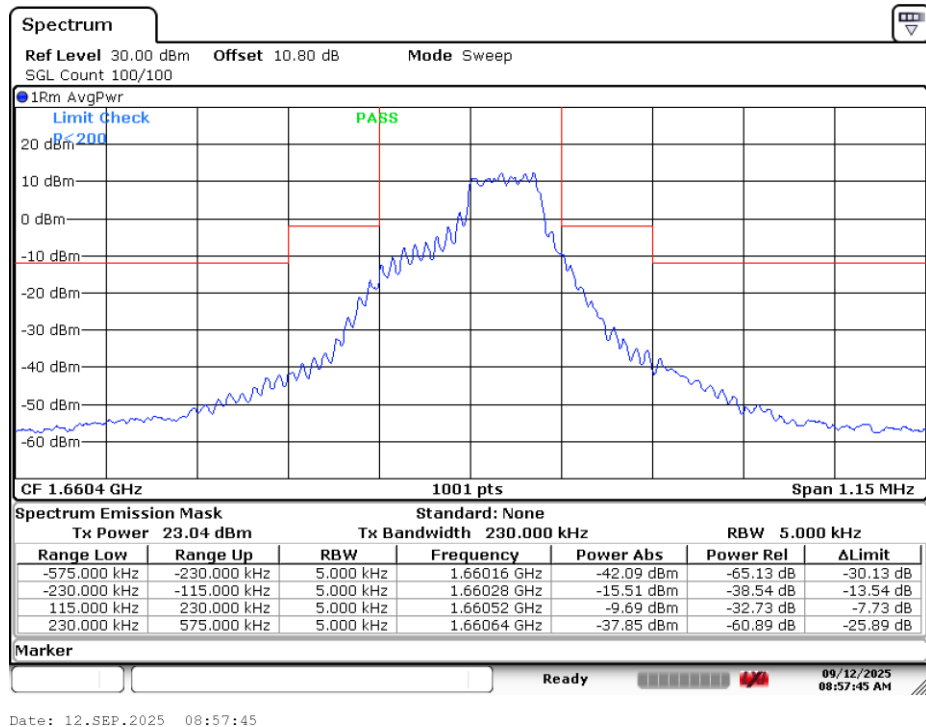


Plot 7-39. High Channel Conducted Emission Mask – 15kHz SCS – 3SC9

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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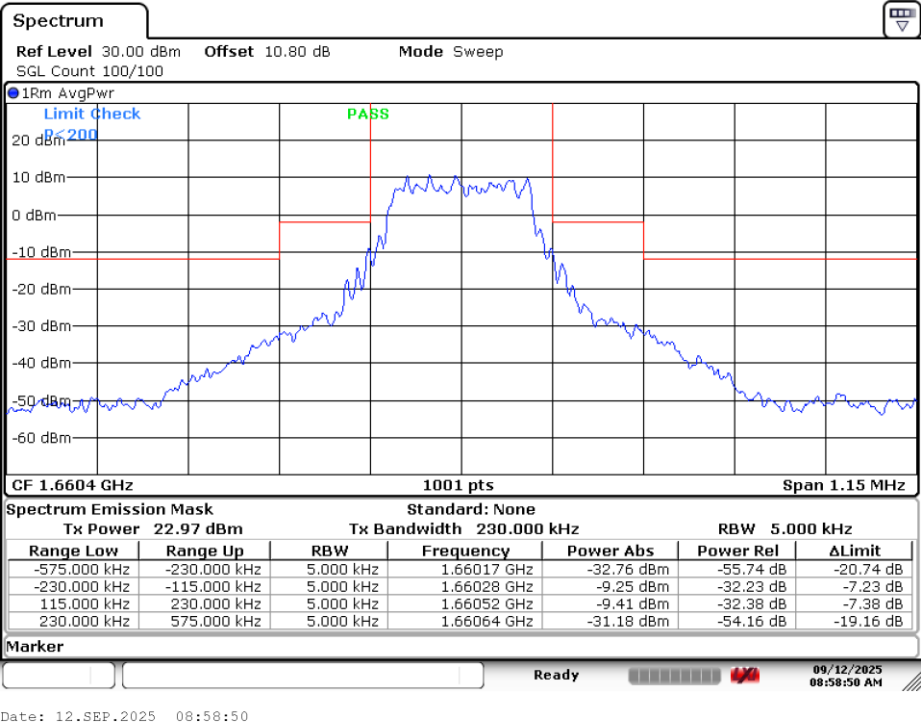


Plot 7-40. High Channel Conducted Emission Mask – 15kHz SCS – 6SC0



Plot 7-41. High Channel Conducted Emission Mask – 15kHz SCS – 6SC6

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-42. High Channel Conducted Emission Mask – 15kHz SCS – 12SC0

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5 Conducted Spurious Emission

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Per FCC Part 25.202(f):

Emission limitations.

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = RMS
5. Number of sweep points $\geq 2 \times \text{Span/RBW}$
6. Trace mode = max hold
7. Sweep time = auto couple
8. The trace was allowed to stabilize

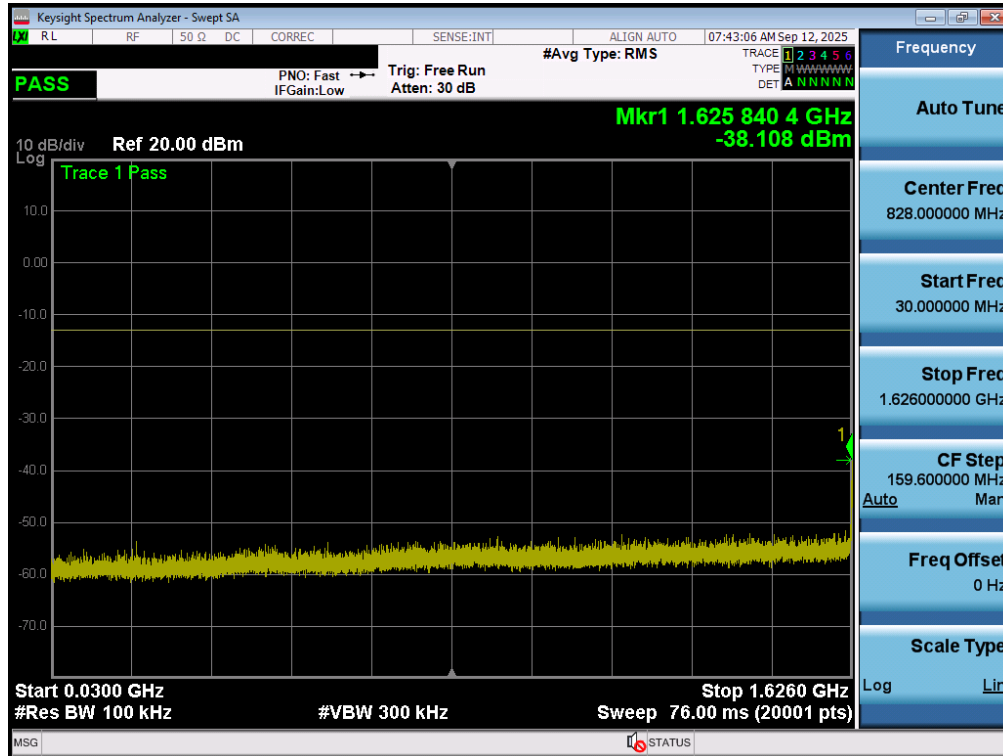
Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

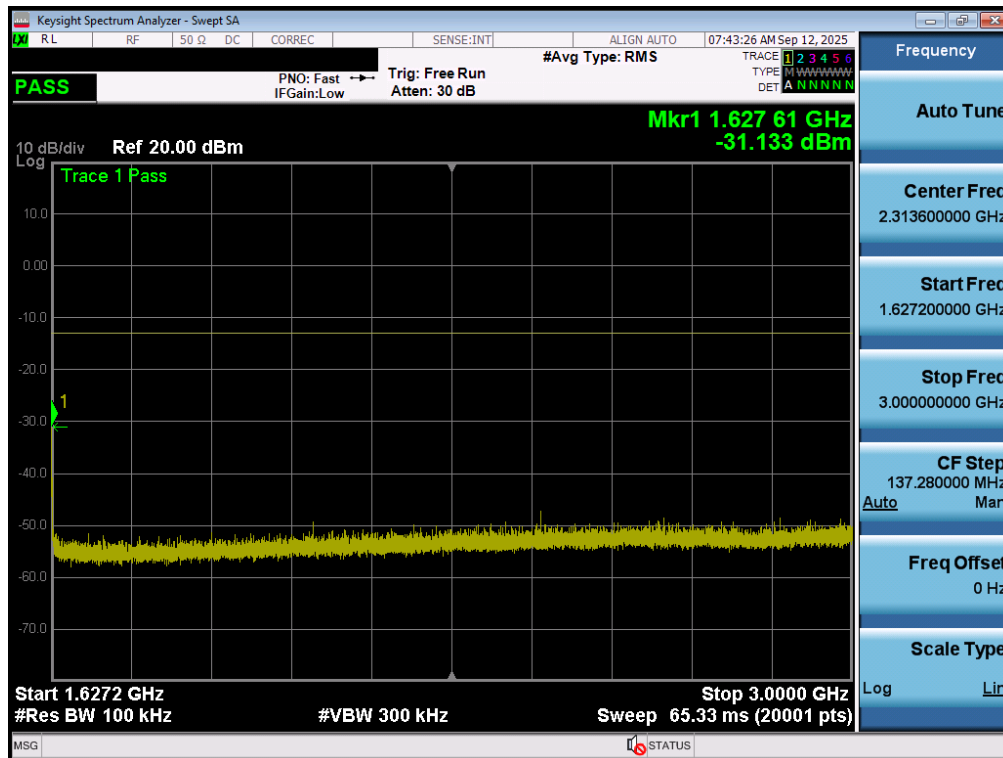


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 40 of 82

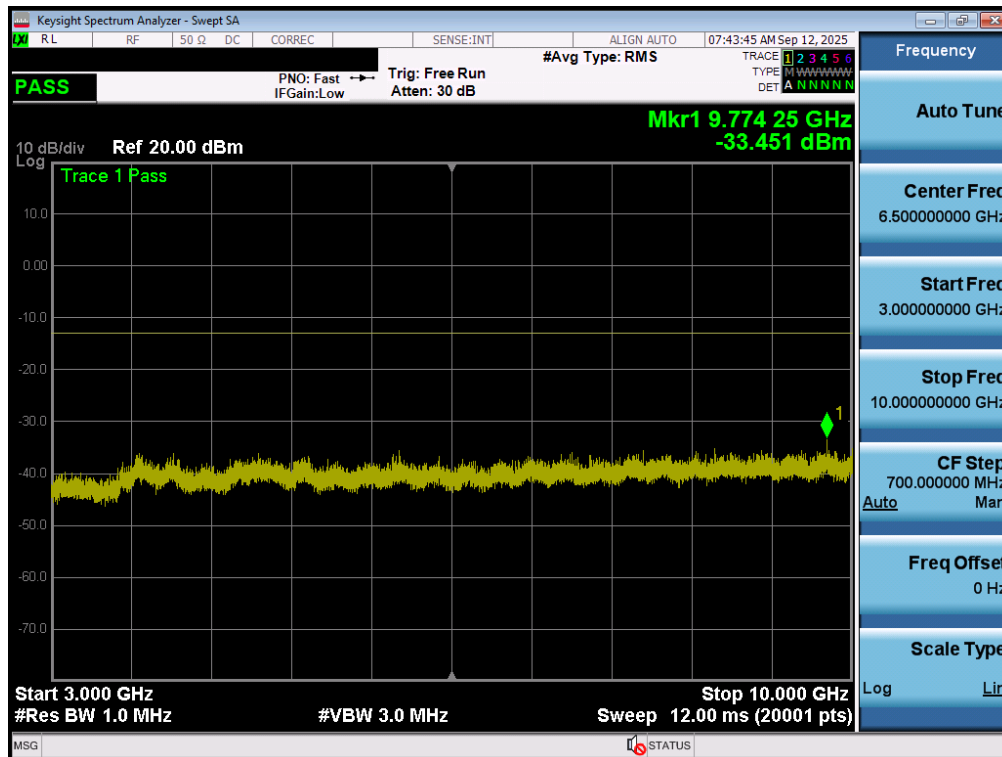


Plot 7-43. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – QPSK

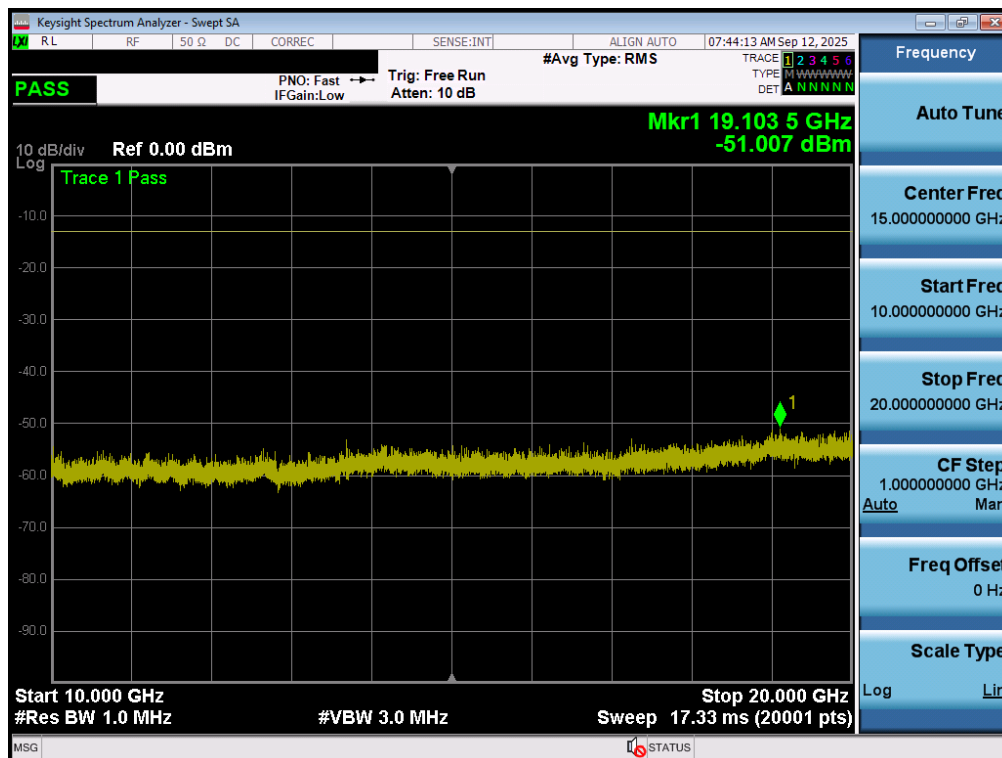


Plot 7-44. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 - QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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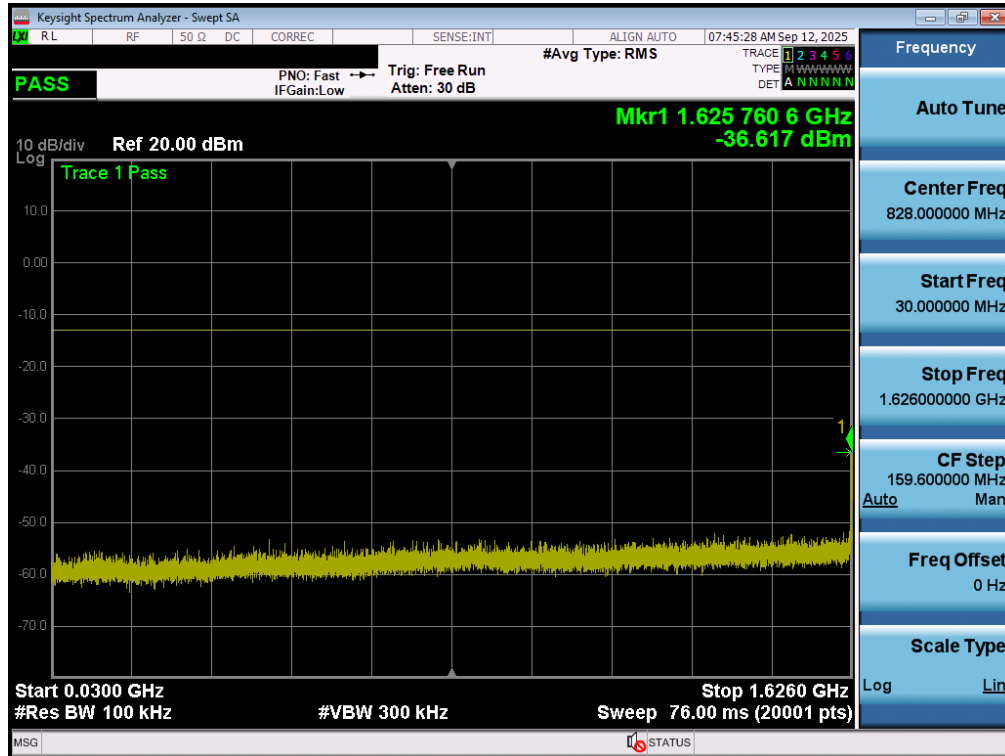


Plot 7-45. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – QPSK

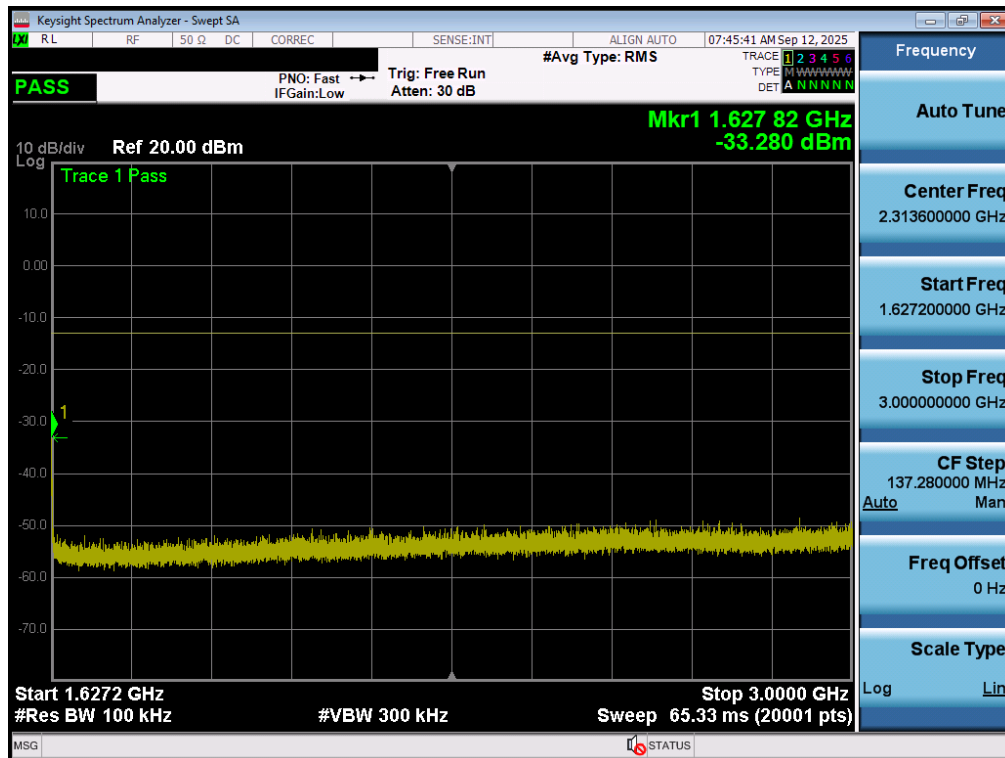


Plot 7-46. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 42 of 82

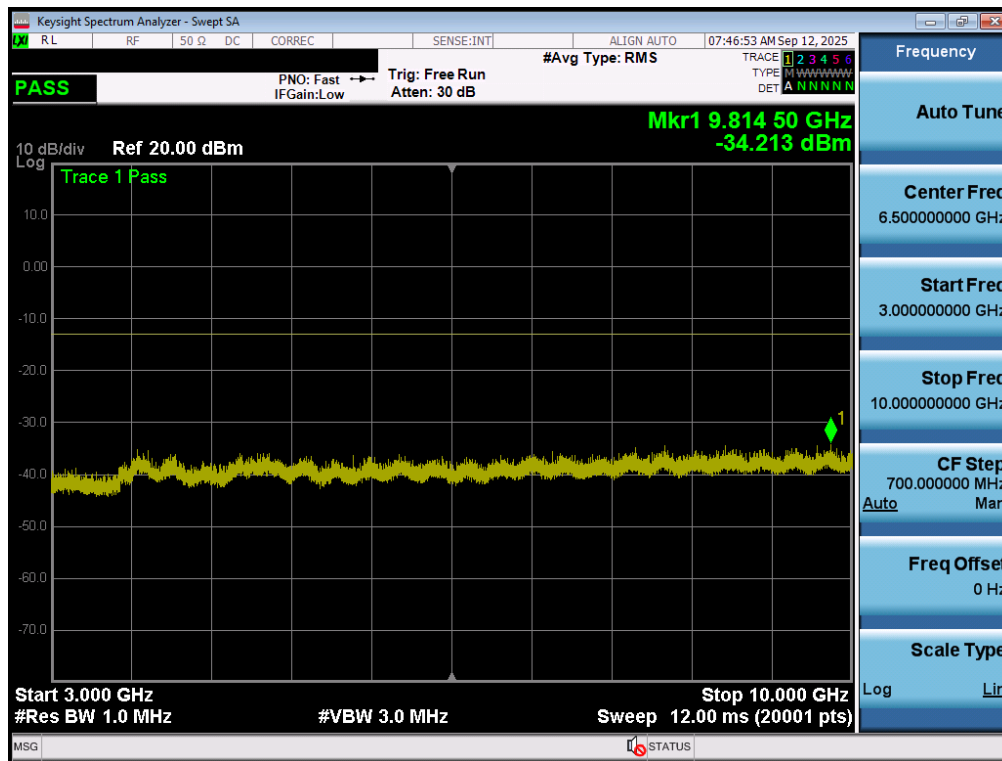


Plot 7-47. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – BPSK

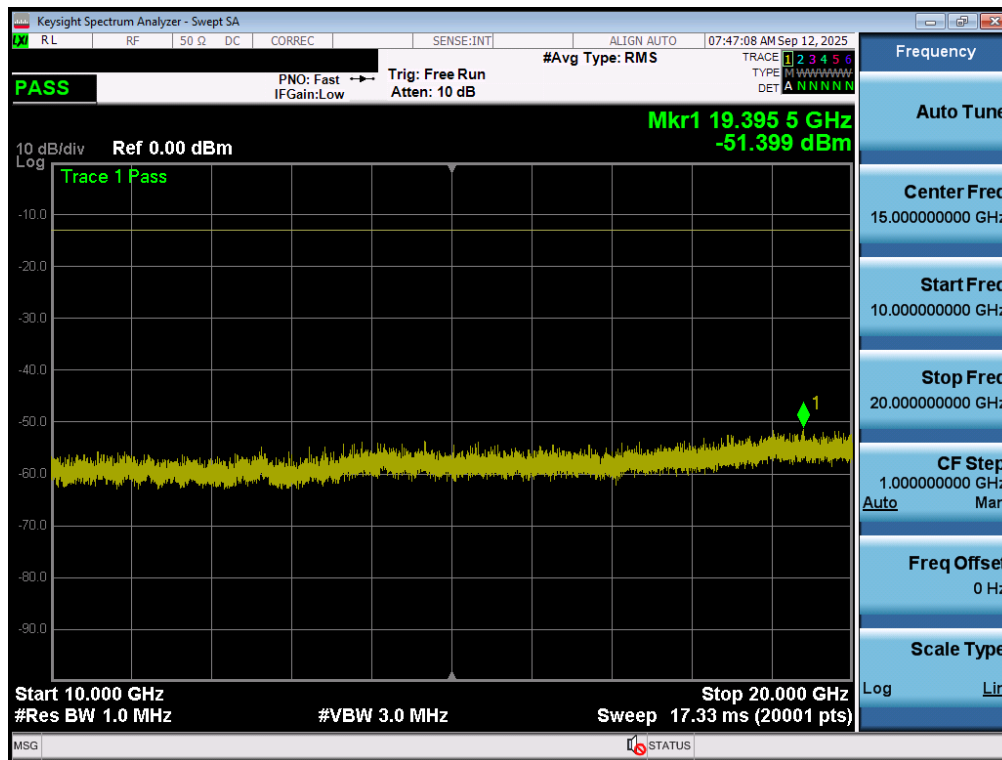


Plot 7-48. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 - BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 43 of 82

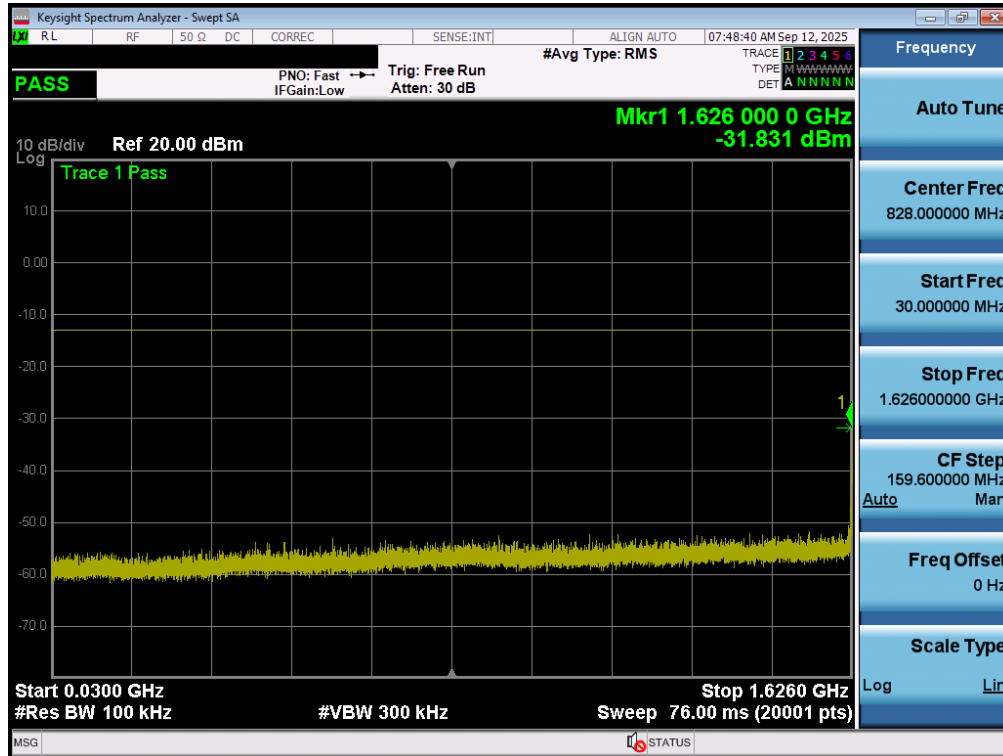


Plot 7-49. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 – BPSK

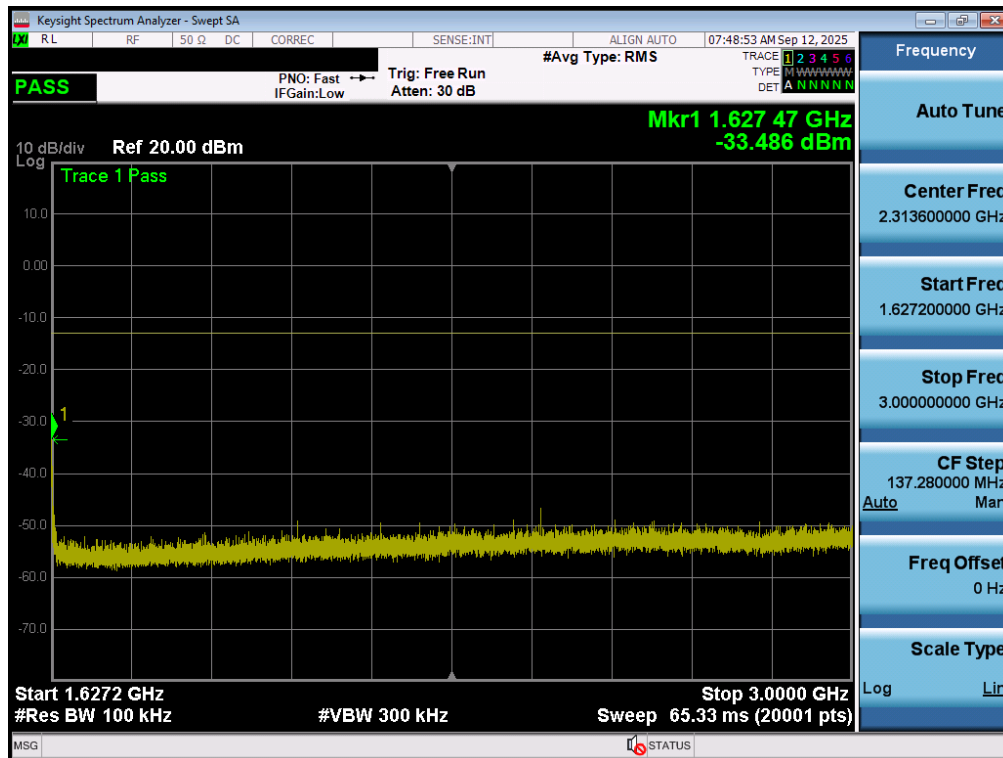


Plot 7-50. Conducted Spurious Emission - 3.75kHz SCS - Low Channel - 1SC0 - BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 44 of 82

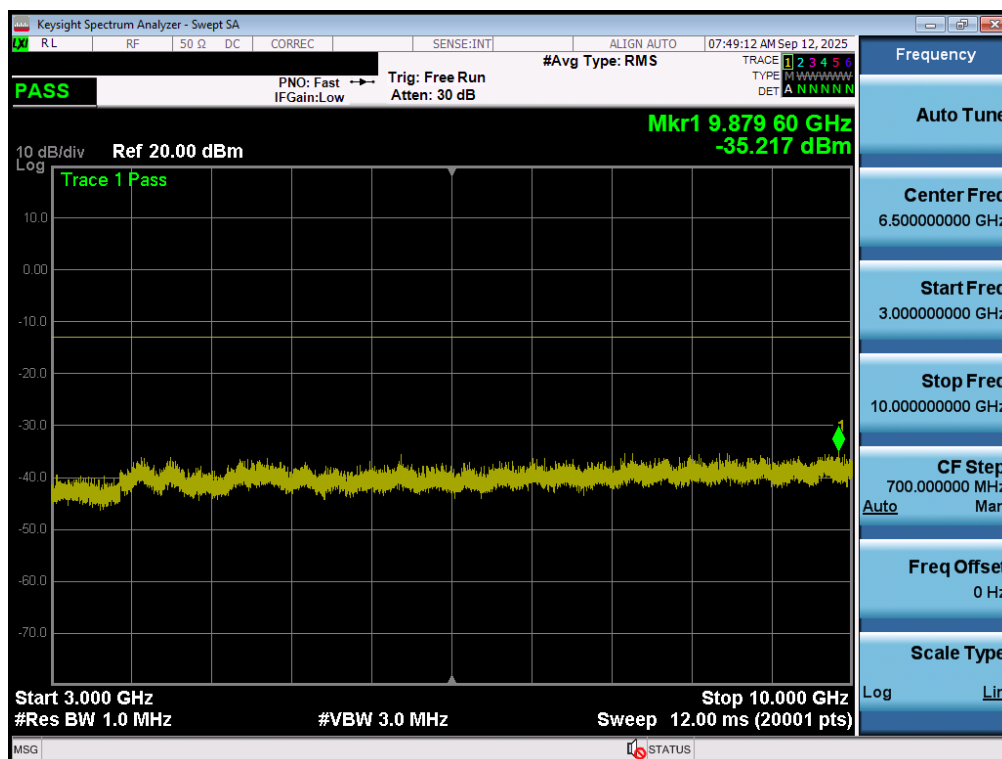


Plot 7-51. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

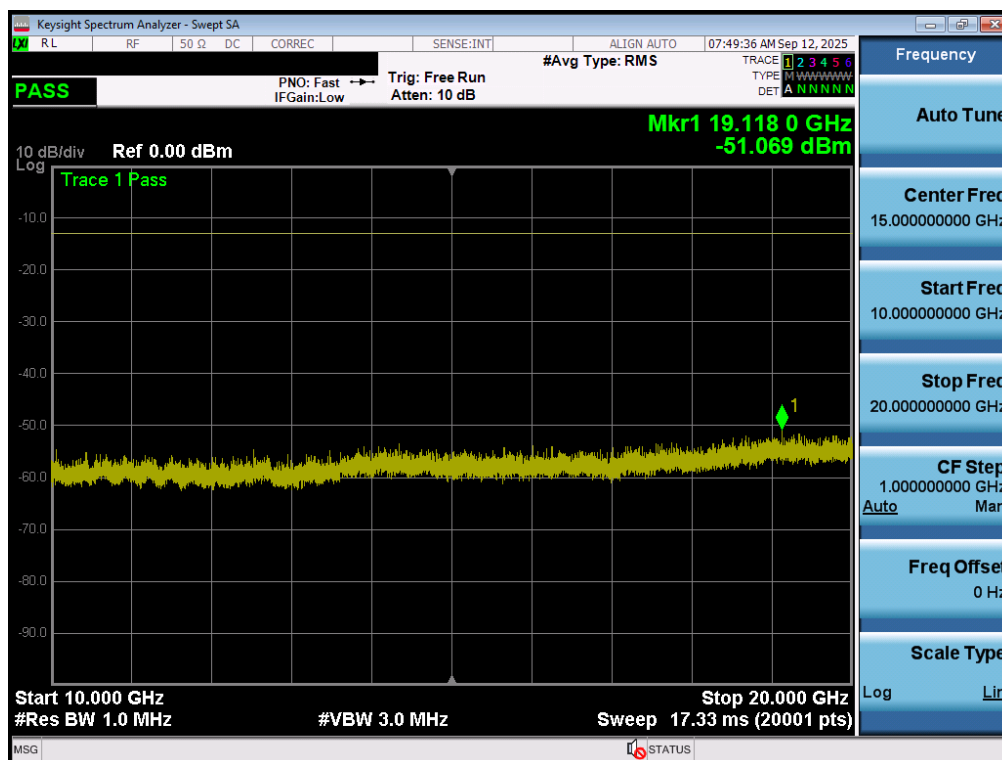


Plot 7-52. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 45 of 82

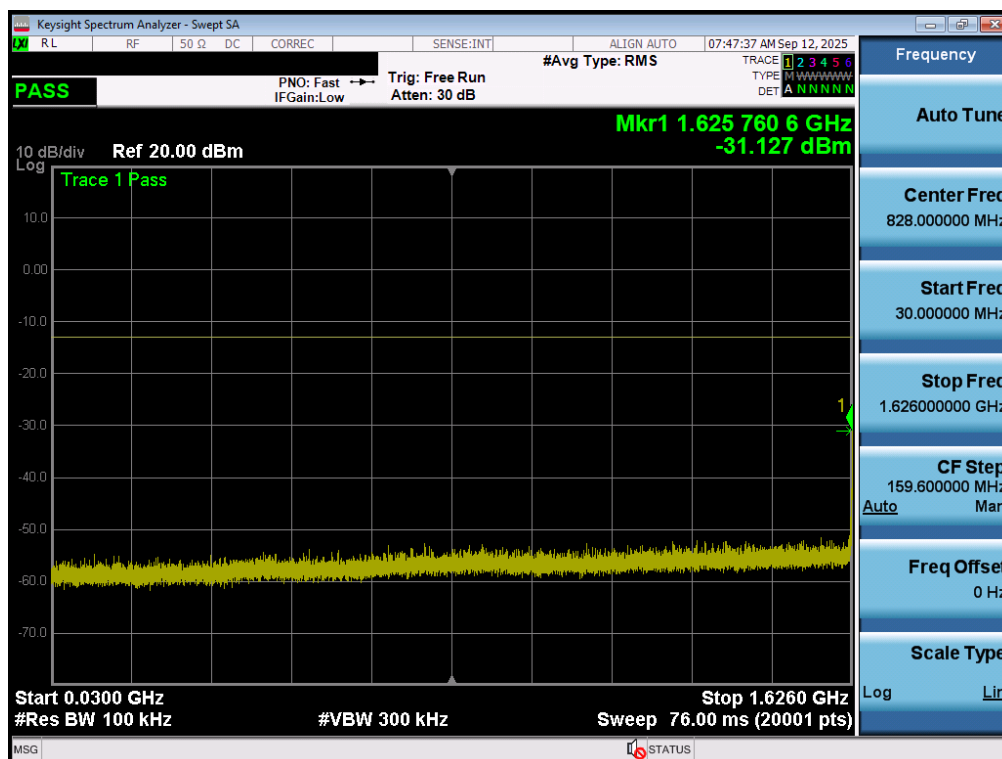


Plot 7-53. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

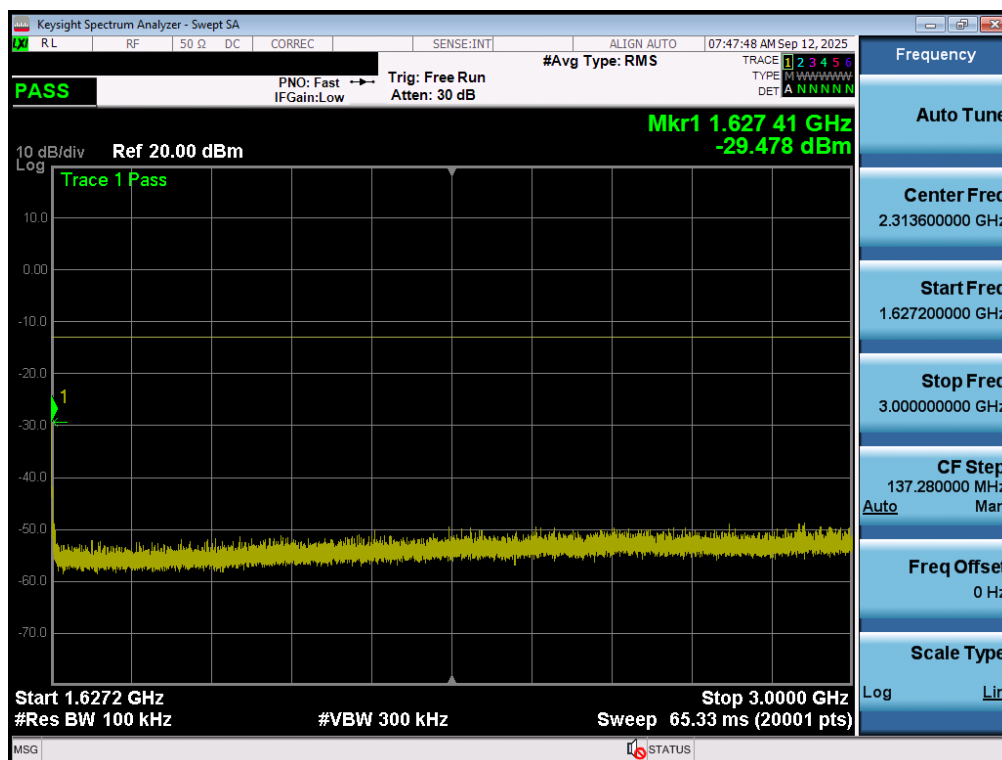


Plot 7-54. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 46 of 82

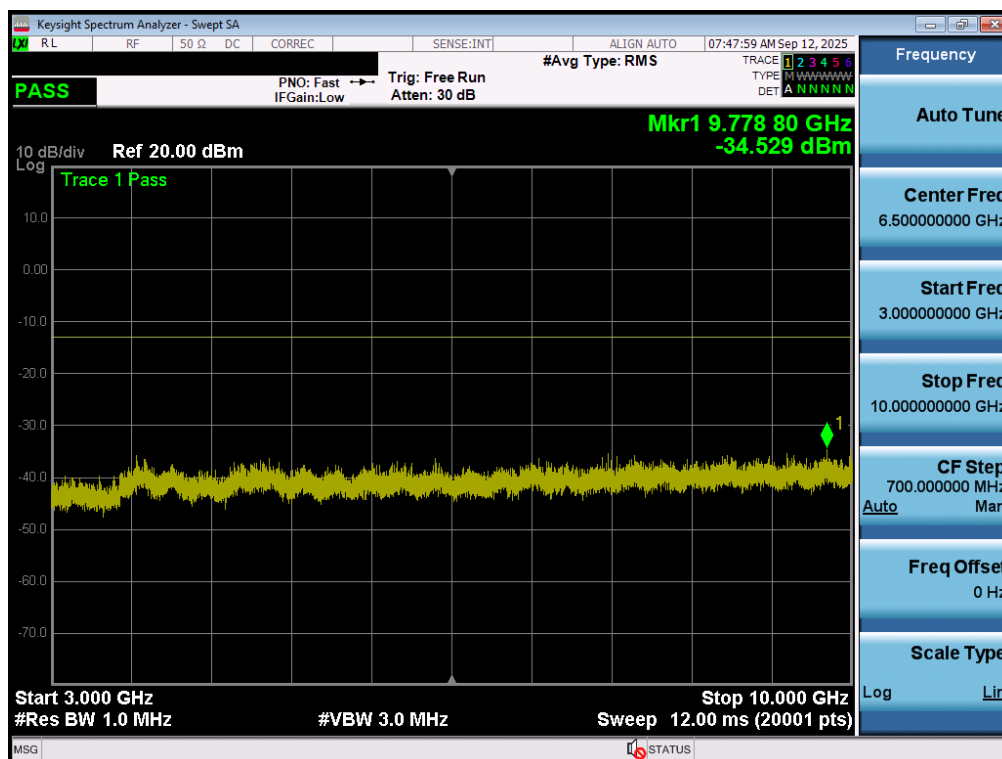


Plot 7-55. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

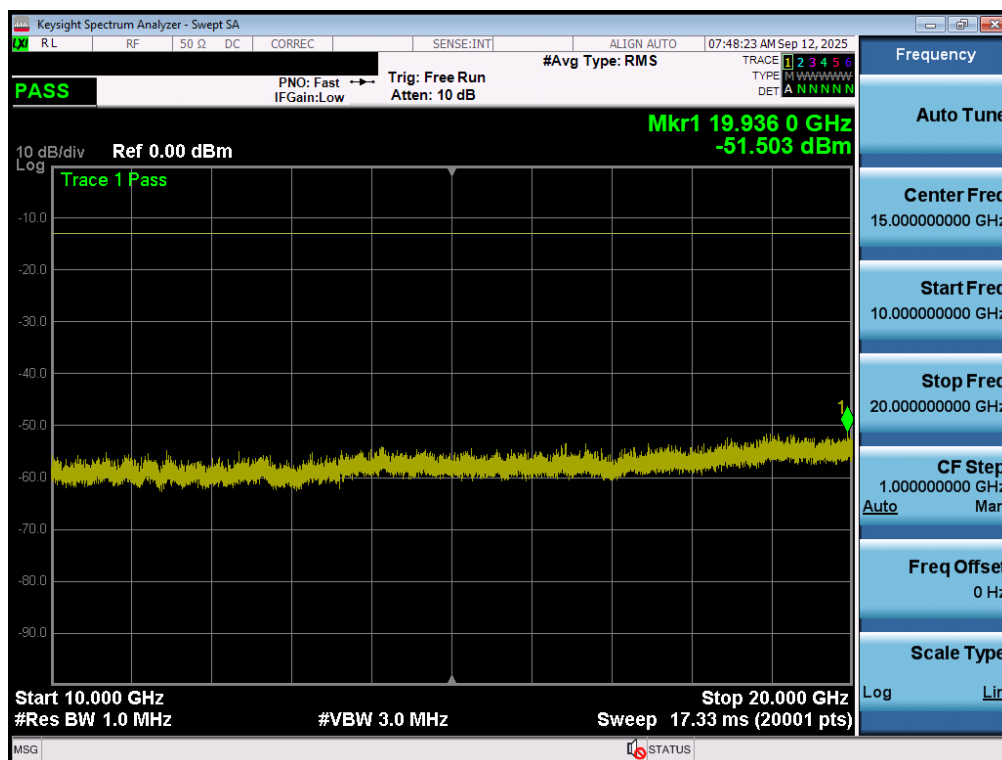


Plot 7-56. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 47 of 82

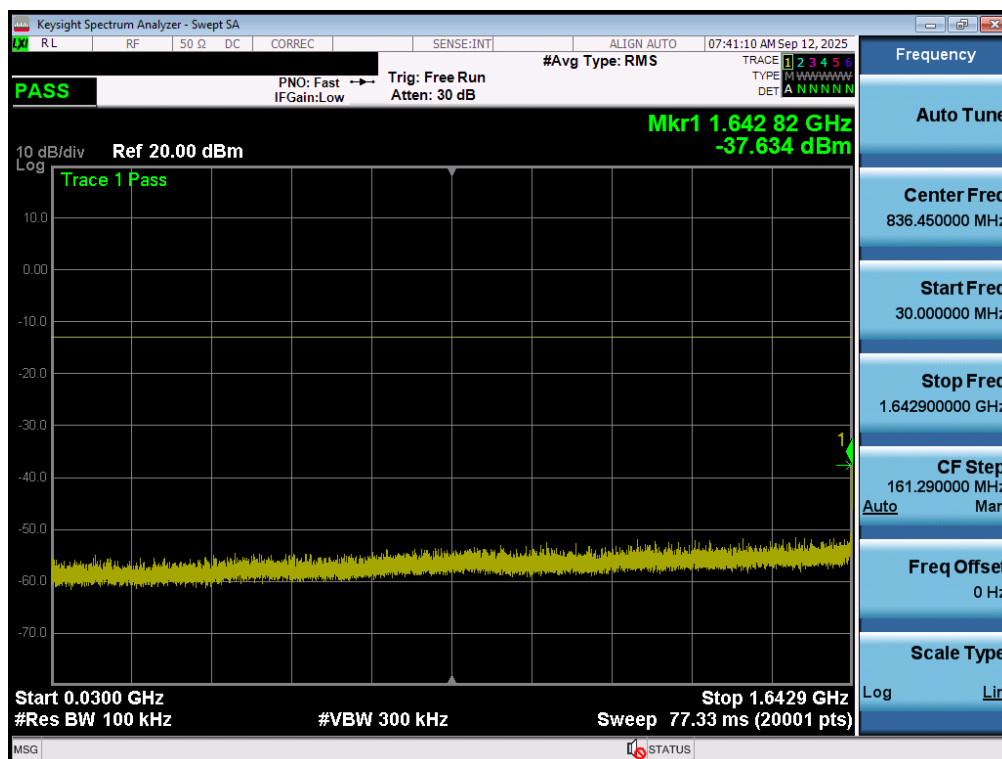


Plot 7-57. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

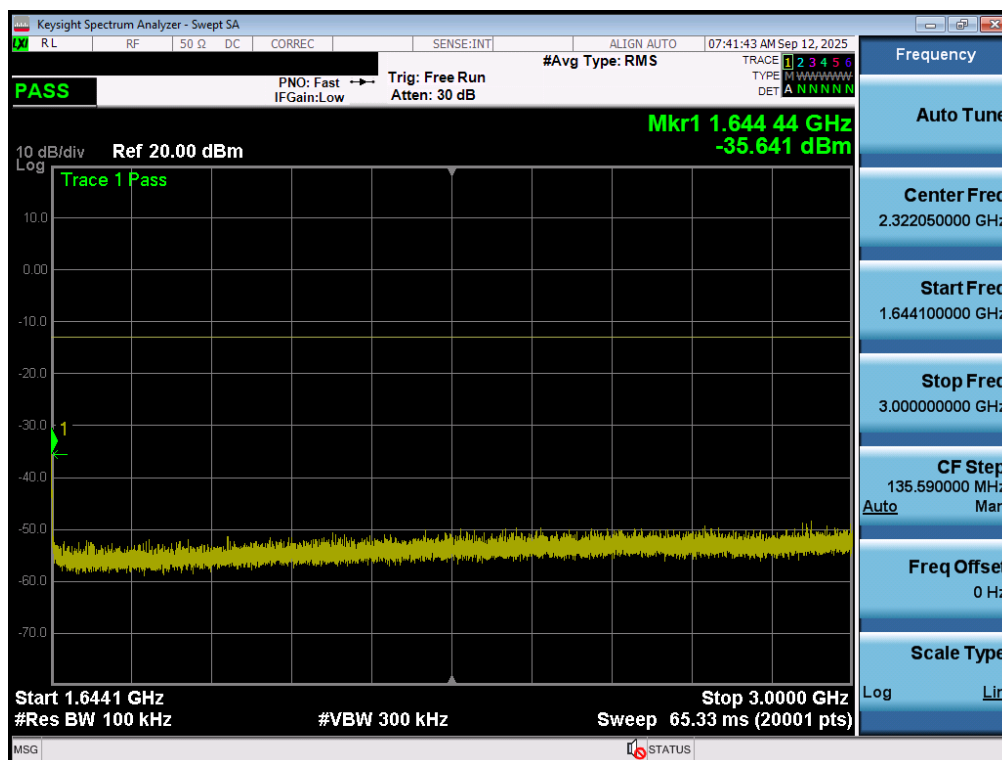


Plot 7-58. Conducted Spurious Emission - 15kHz SCS - Low Channel - 1SC0 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-31.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 48 of 82

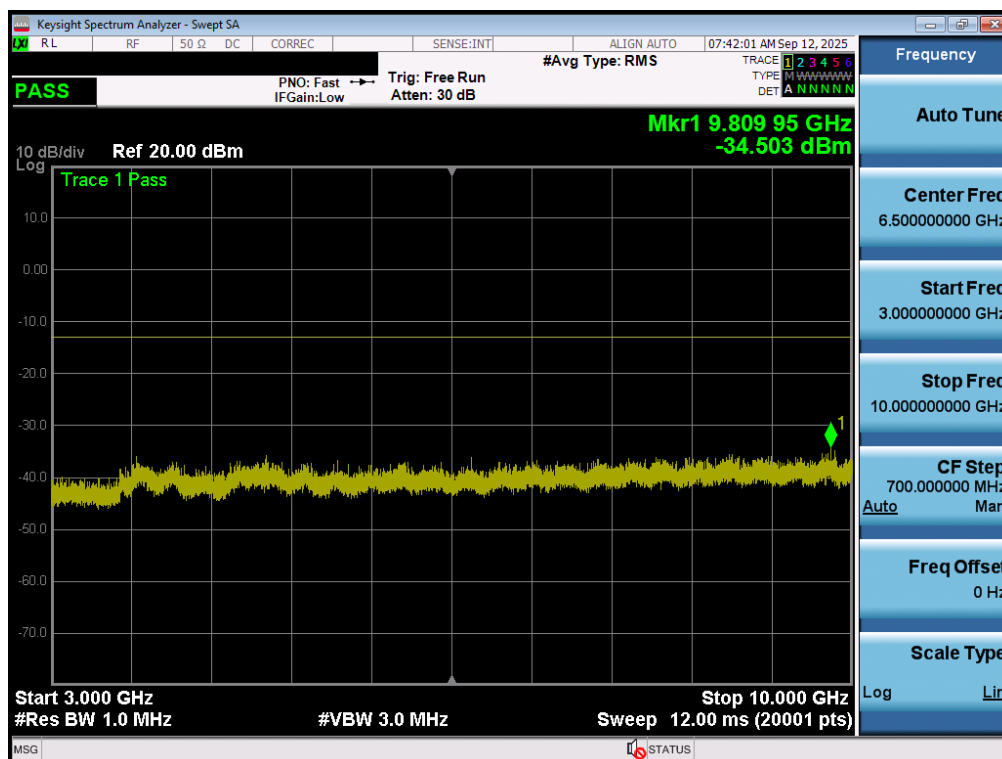


Plot 7-59. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

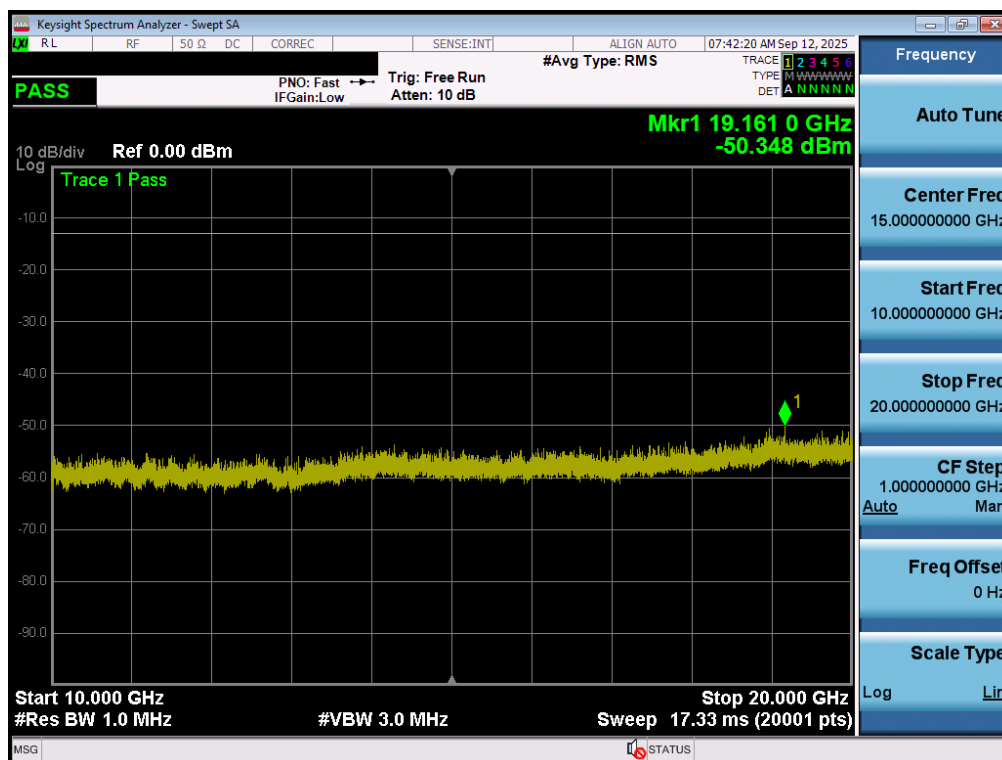


Plot 7-60. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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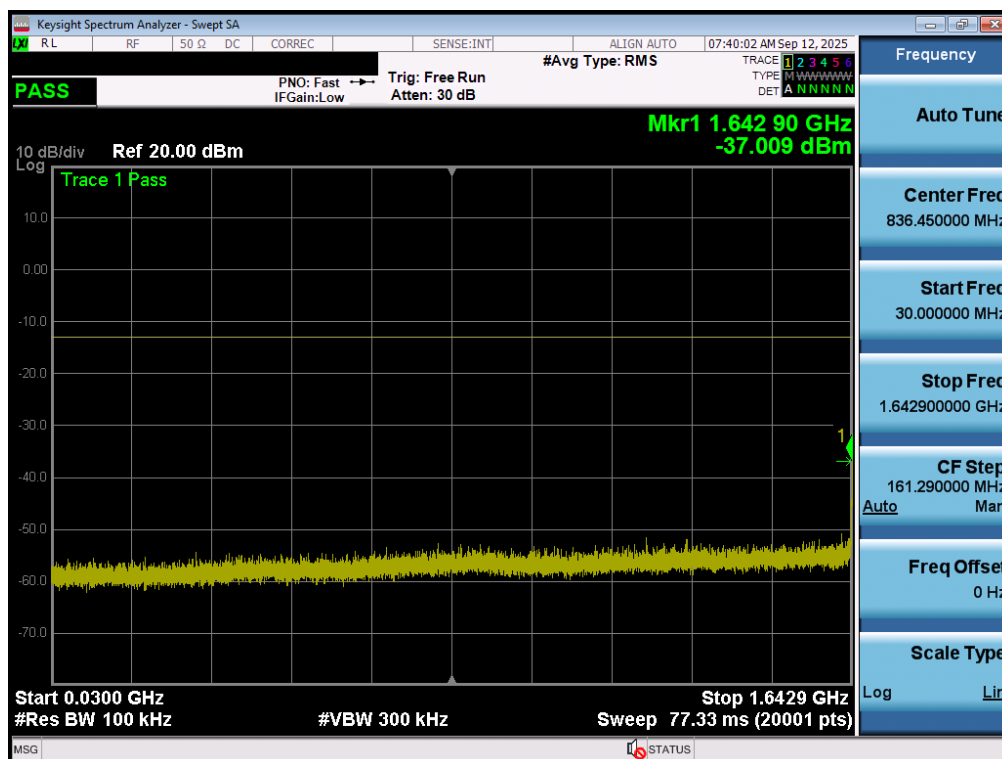


Plot 7-61. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

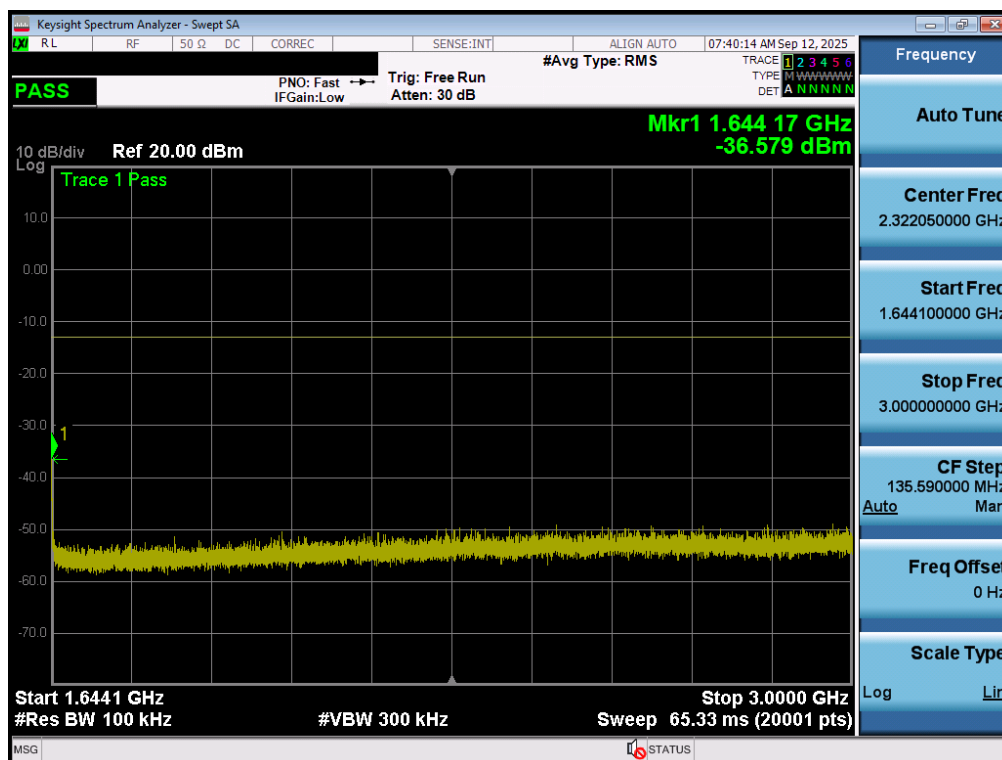


Plot 7-62. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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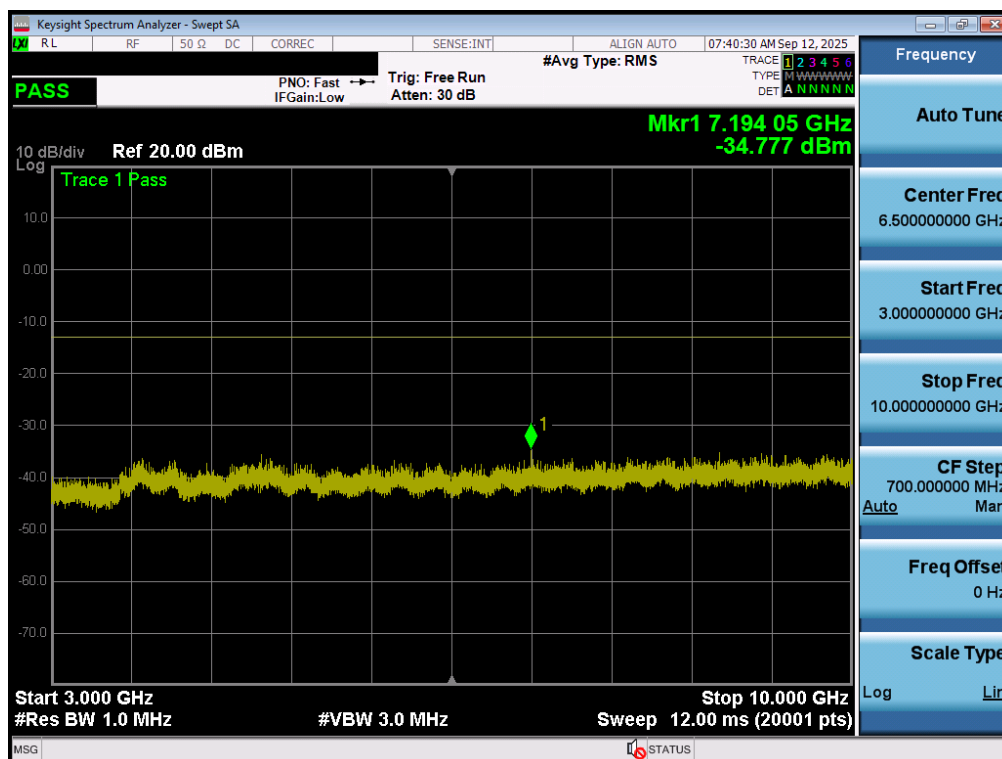


Plot 7-63. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

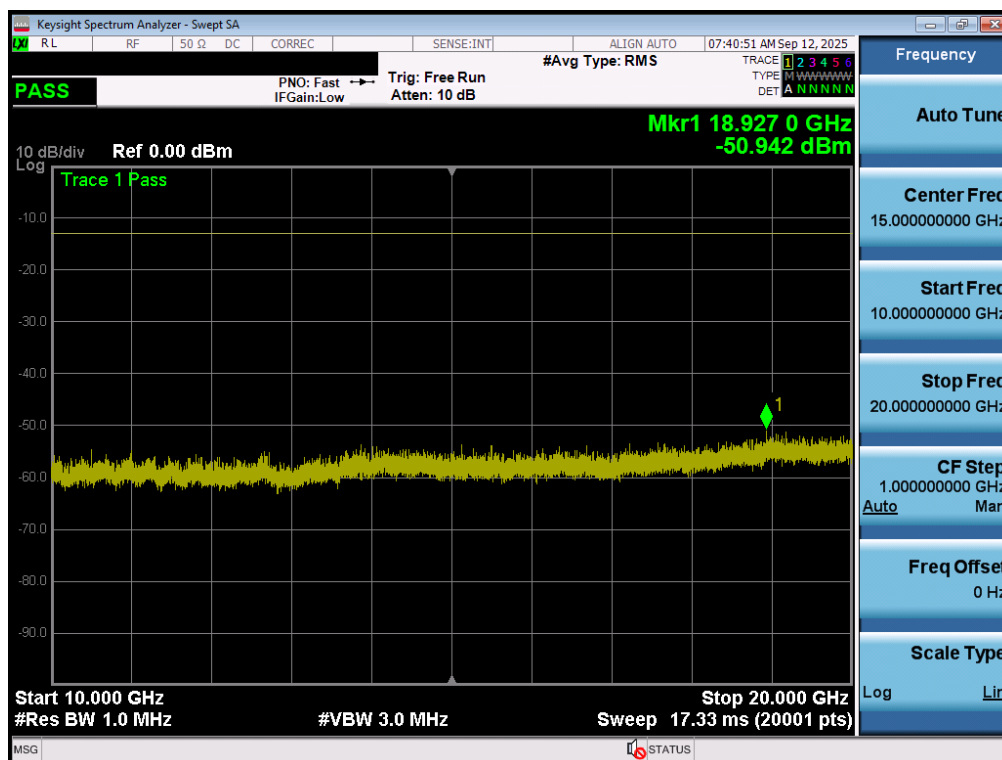


Plot 7-64. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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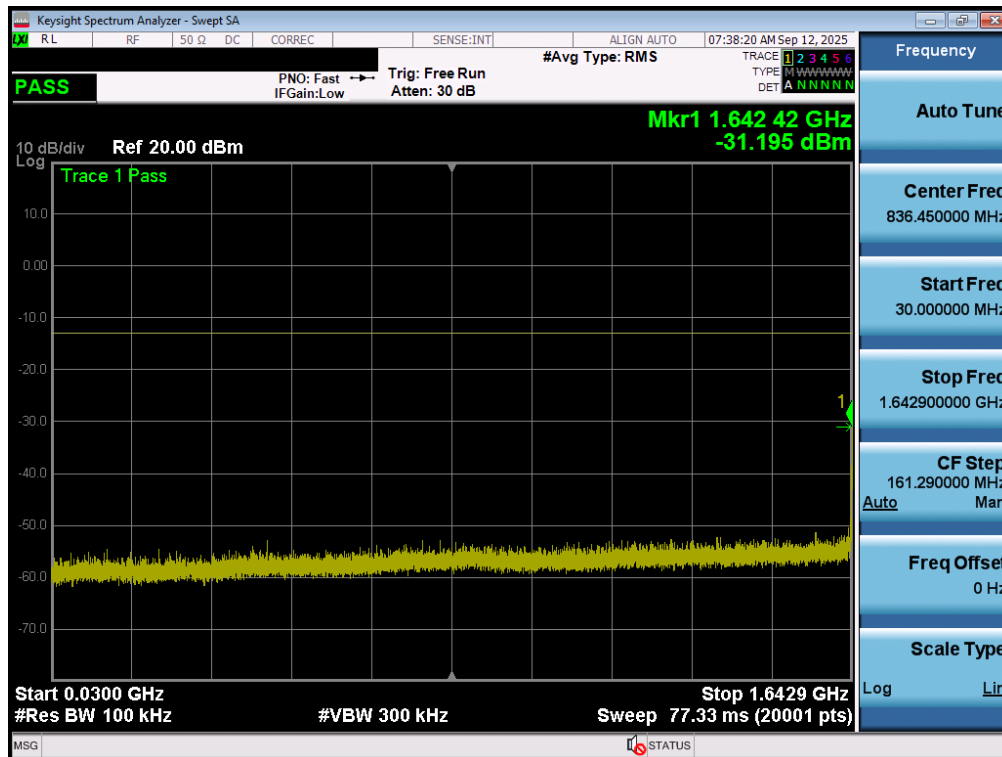


Plot 7-65. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

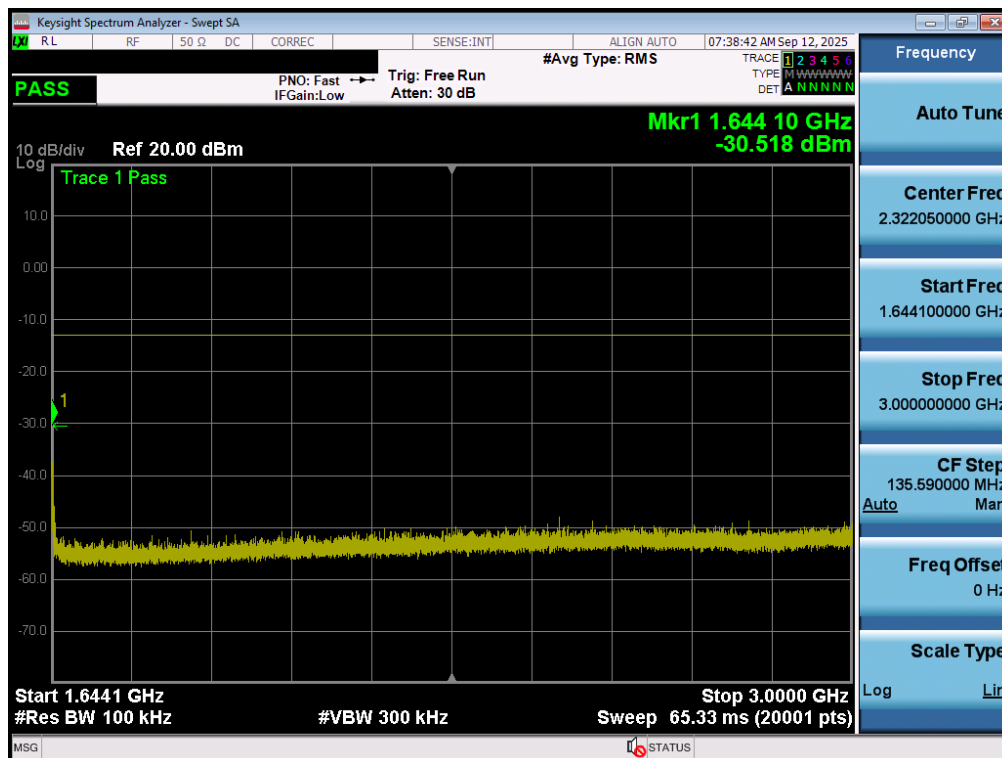


Plot 7-66. Conducted Spurious Emission - 3.75kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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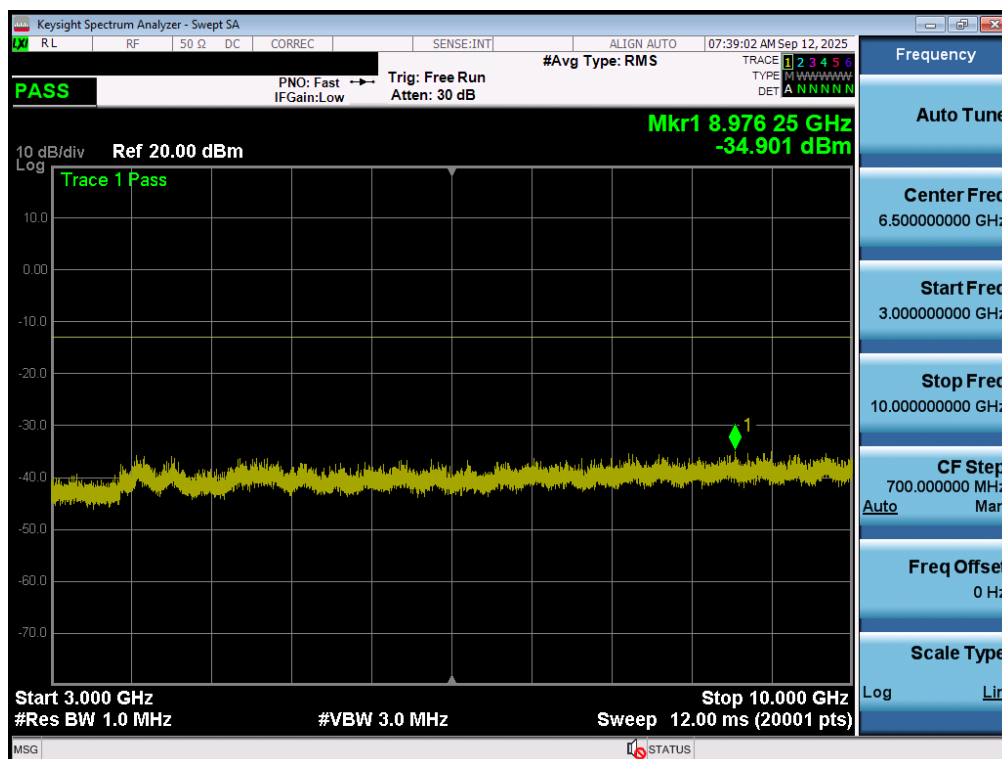


Plot 7-67. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

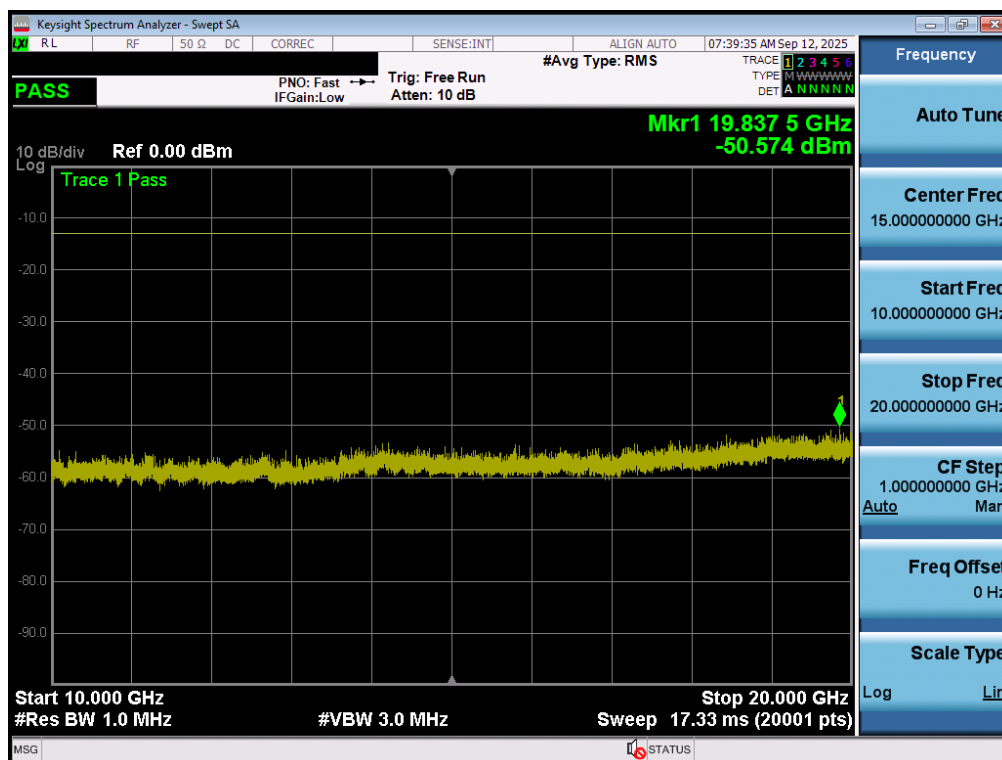


Plot 7-68. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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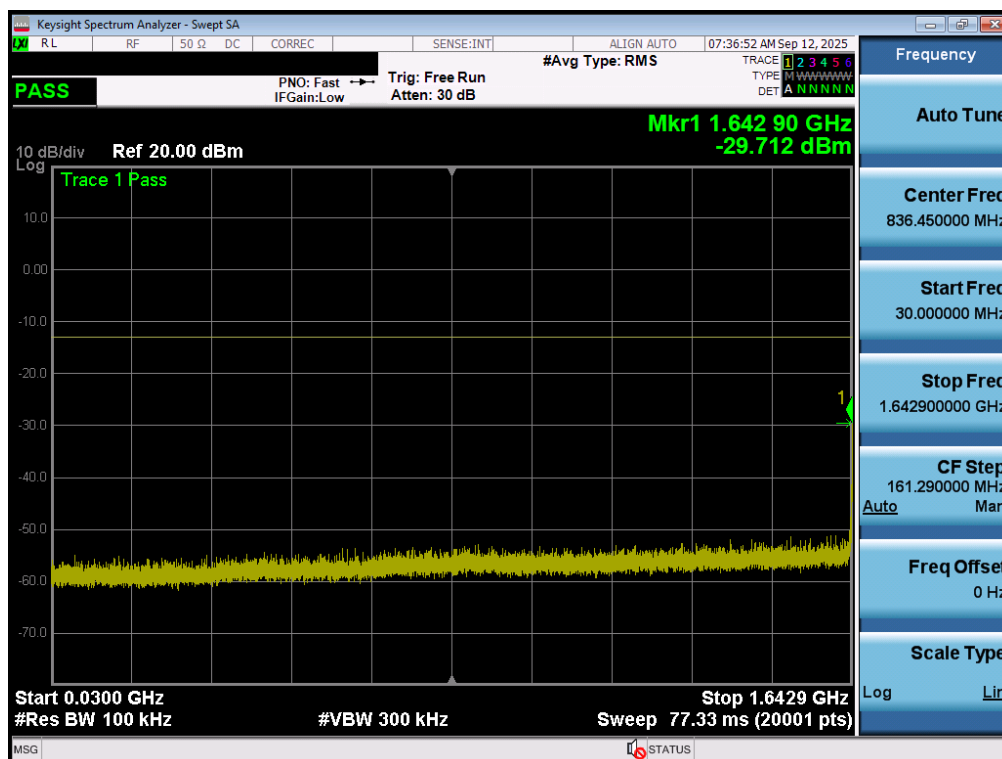


Plot 7-69. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

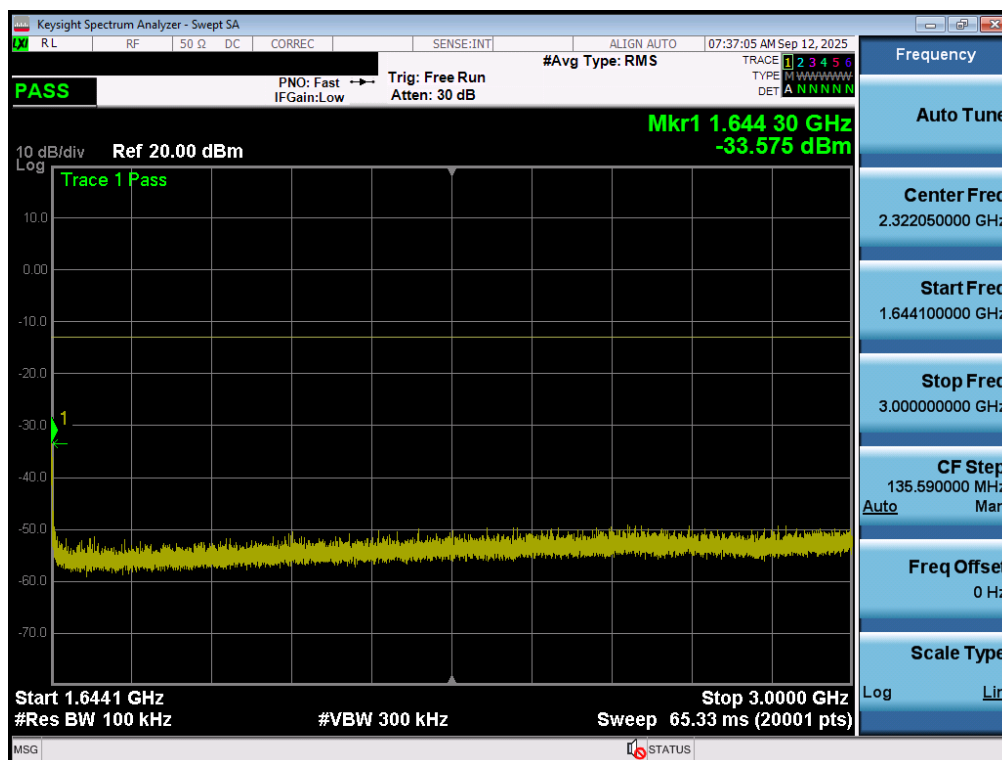


Plot 7-70. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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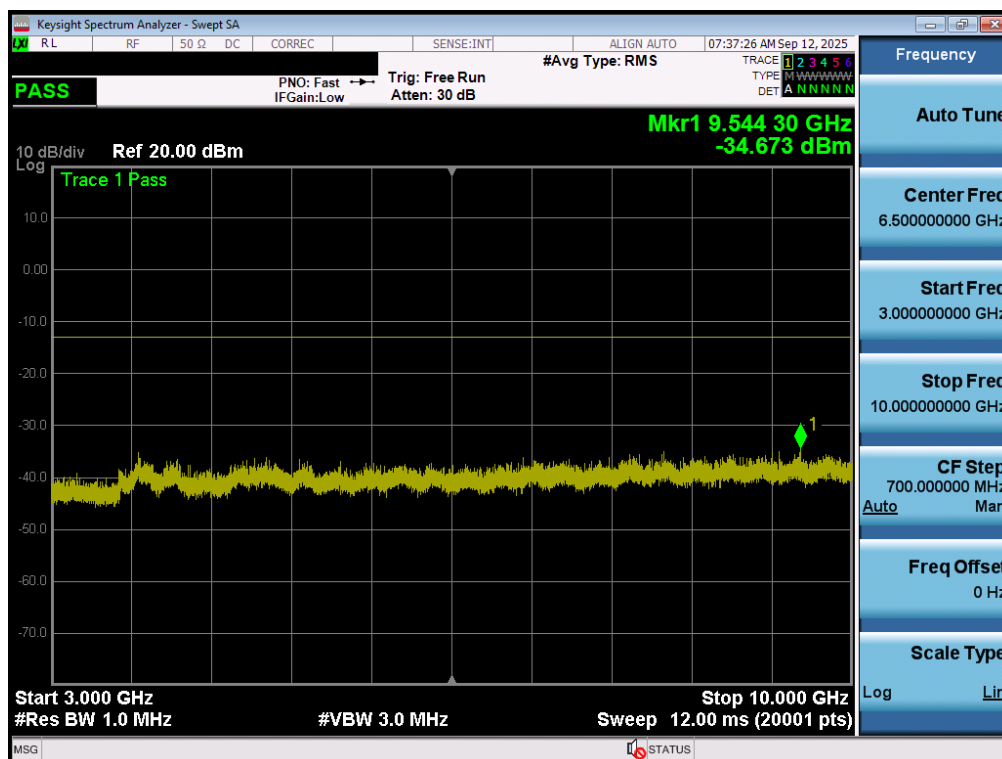


Plot 7-71. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

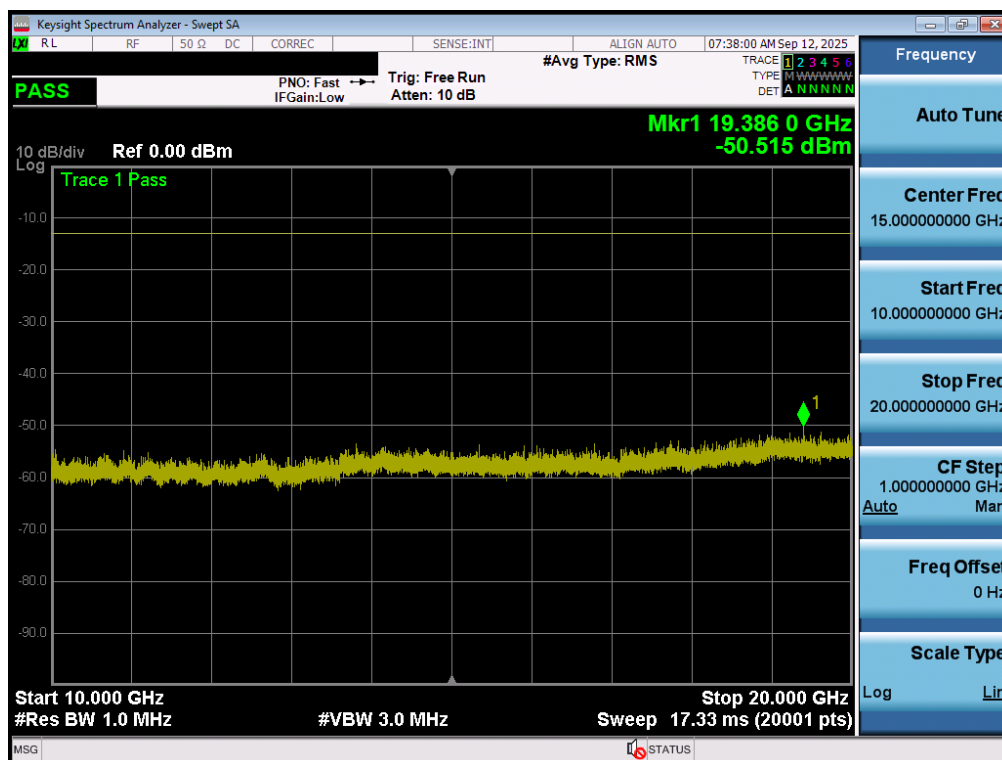


Plot 7-72. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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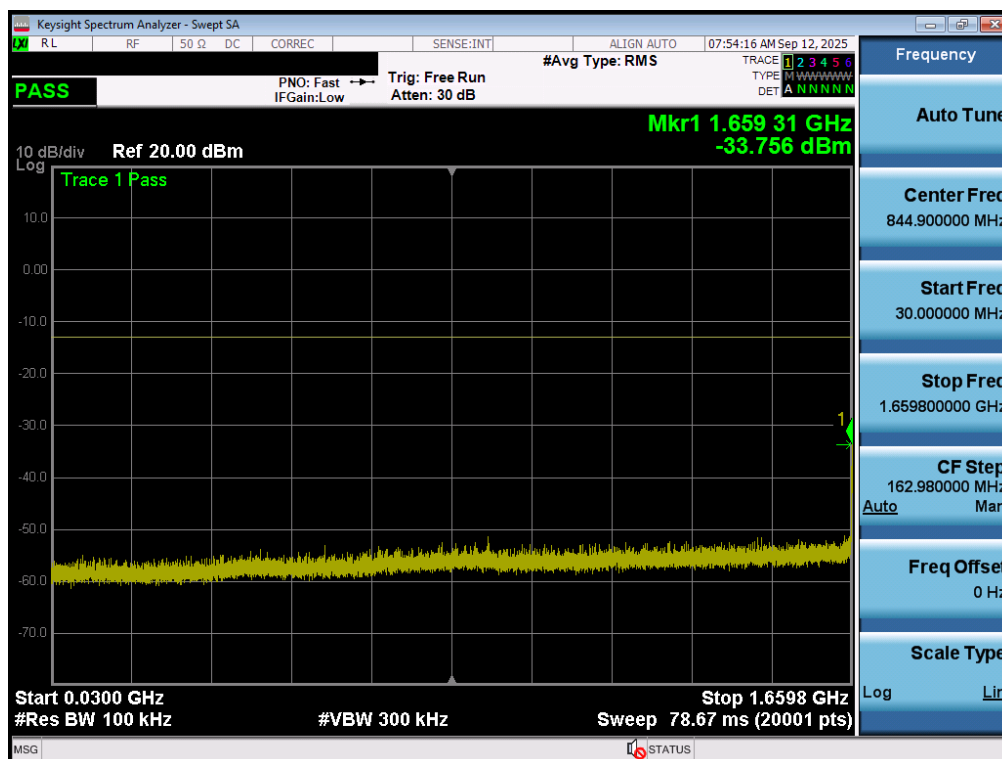


Plot 7-73. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

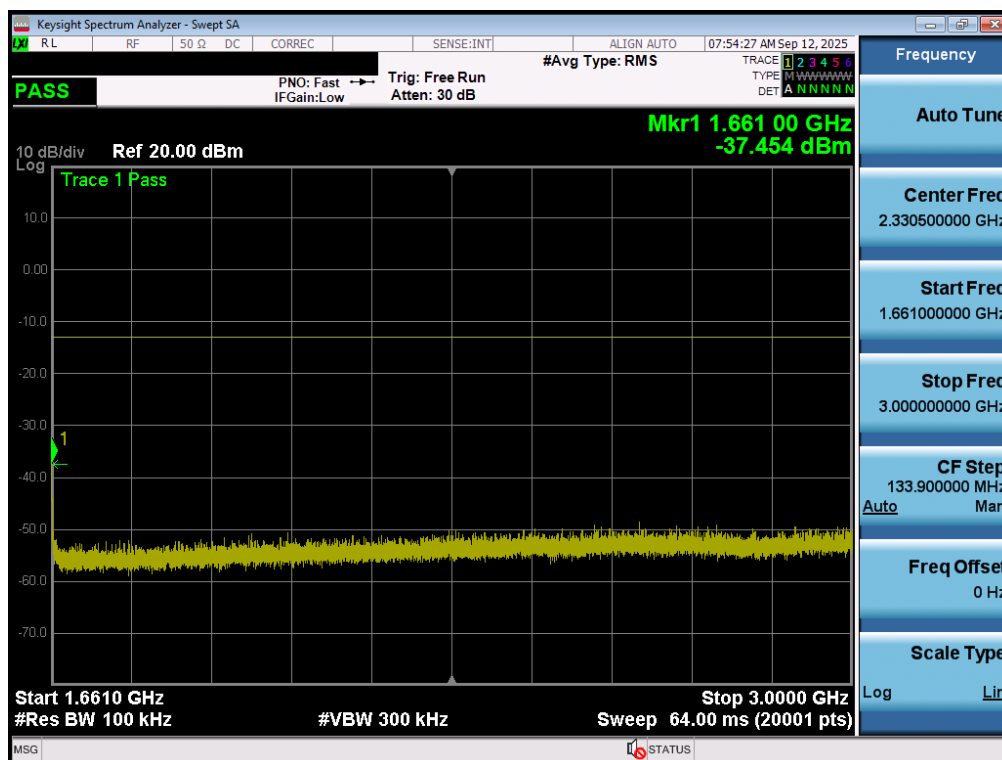


Plot 7-74. Conducted Spurious Emission - 15kHz SCS - Mid Channel - 1SC0 – BPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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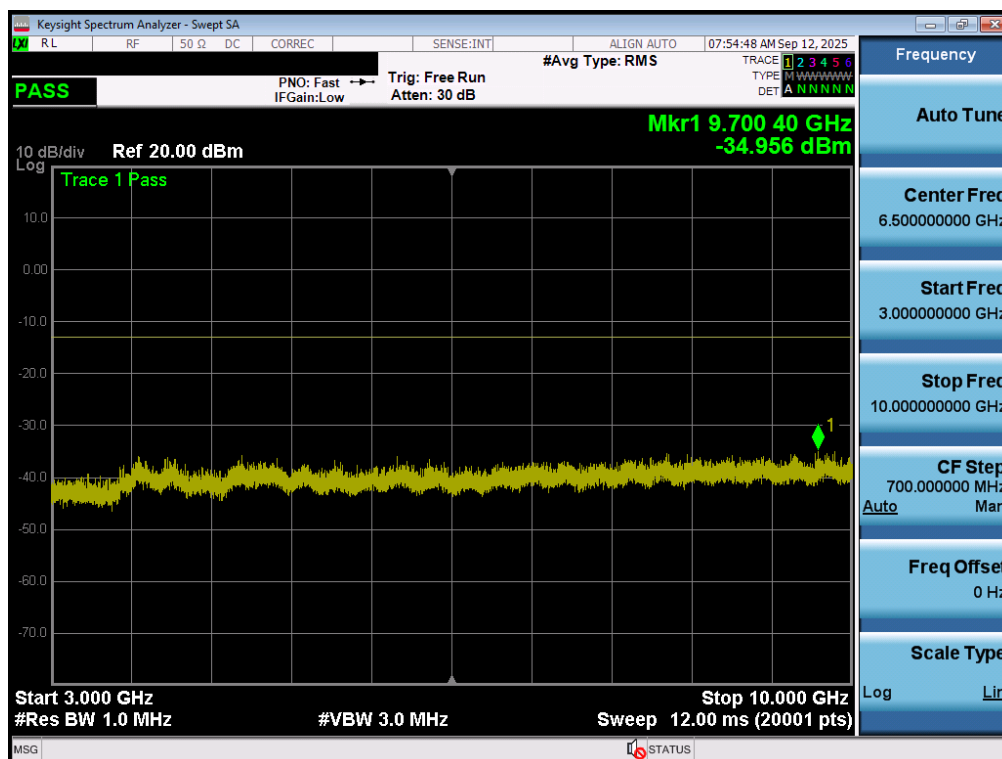


Plot 7-75. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

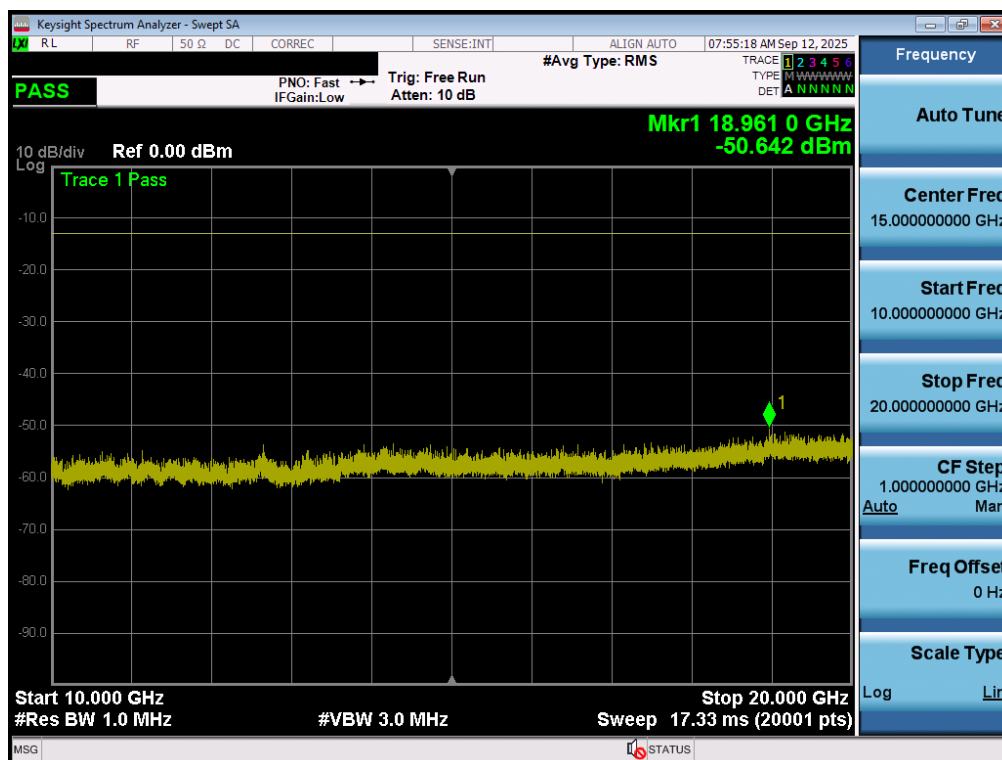


Plot 7-76. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-77. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK



Plot 7-78. Conducted Spurious Emission - 3.75kHz SCS - High Channel - 1SC0 – QPSK

FCC ID: A3LSMS948U	PART 25 MEASUREMENT REPORT		Approved by: Technical Manager
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