

ELEMENT WASHINGTON DC LLC

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PART 22 MEASUREMENT REPORT

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea

Date of Testing:

09/06/2024 - 11/08/2024 **Test Report Issue Date:** 11/10/2024 **Test Site/Location:** Element Lab., Columbia, MD, USA **Test Report Serial No.:** 1M2408260069-04.A3L

FCC ID:

A3LSMS938B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type: Model: Additional Model: EUT Type: FCC Classification: FCC Rule Part: Test Procedure(s): Certification SM-S938B/DS SM-S938B Portable Handset PCS Licensed Transmitter Held to Ear (PCE) 22 ANSI C63.26-2015, KDB 648474 D03 v01r04

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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Antenna-1								
				EI	RP	EIF	۲P	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Emission Designator
GSWGPRS	N/A	GMSK	824.2 - 848.8	0.941	29.74	1.544	31.89	246KGXW
EDGE	N/A	8-PSK	824.2 - 848.8	0.181	22.59	0.298	24.74	240KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.093	19.70	0.153	21.85	4M15F9W
	15MHz	QPSK	831.5 - 841.5	0.120	20.80	0.197	22.95	13M5G7D
	(Band 26 only)	16QAM	831.5 - 841.5	0.101	20.02	0.165	22.17	13M5W7D
	40.141	QPSK	829.0 - 844.0	0.119	20.76	0.196	22.91	9M01G7D
	10 MHZ	16QAM	829.0 - 844.0	0.104	20.19	0.171	22.34	9M01W7D
TE David 00/E		QPSK	826.5 - 846.5	0.120	20.80	0.197	22.95	4M50G7D
LIE Band 26/5	5 IVIHZ	16QAM	826.5 - 846.5	0.108	20.33	0.177	22.48	4M50W7D
	3 MHz	QPSK	825.5 - 847.5	0.123	20.89	0.201	23.04	2M71G7D
		16QAM	825.5 - 847.5	0.105	20.20	0.172	22.35	2M71W7D
		QPSK	824.7 - 848.3	0.123	20.89	0.201	23.04	1M11G7D
	1.4 11112	16QAM	824.7 - 848.3	0.103	20.11	0.168	22.26	1M10W7D
		π/2 BPSK	834.0 - 839.0	0.110	20.40	0.180	22.55	18M0G7D
	20 MHz	QPSK	834.0 - 839.0	0.106	20.25	0.174	22.40	19M0G7D
		16QAM	834.0 - 839.0	0.082	19.14	0.135	21.29	19M0W7D
		π/2 BPSK	831.5 - 841.5	0.111	20.46	0.183	22.61	13M5G7D
	15 MHz	QPSK	831.5 - 841.5	0.110	20.41	0.180	22.56	14M2G7D
NP Rond p26/5		16QAM	831.5 - 841.5	0.084	19.24	0.138	21.39	14M2W7D
INIX Danu 1120/3		π/2 BPSK	829.0 - 844.0	0.111	20.44	0.181	22.59	9M00G7D
	10 MHz	QPSK	829.0 - 844.0	0.110	20.41	0.180	22.56	9M35G7D
		16QAM	829.0 - 844.0	0.085	19.30	0.140	21.45	9M35W7D
		π/2 BPSK	826.5 - 846.5	0.114	20.58	0.188	22.73	4M51G7D
	5 MHz	QPSK	826.5 - 846.5	0.110	20.41	0.180	22.56	4M53G7D
		16QAM	826.5 - 846.5	0.086	19.36	0.141	21.51	4M58W7D

	Antenna-2							
				EF	RP	EIRP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Emission Designator
GSM/GPRS	N/A	GMSK	824.2 - 848.8	0.438	26.41	0.719	28.56	245KGXW
EDGE	N/A	8-PSK	824.2 - 848.8	0.145	21.61	0.237	23.76	240KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.066	18.20	0.108	20.35	4M15F9W
	15MHz	QPSK	831.5 - 841.5	0.058	17.61	0.095	19.76	13M5G7D
	(Band 26 only)	16QAM	831.5 - 841.5	0.044	16.48	0.073	18.63	13M6W7D
		QPSK	829.0 - 844.0	0.056	17.47	0.092	19.62	9M03G7D
		16QAM	829.0 - 844.0	0.046	16.60	0.075	18.75	9M02W7D
ITE Rond 26/5	5 MHz	QPSK	826.5 - 846.5	0.057	17.52	0.093	19.67	4M51G7D
LIE Danu 20/5		16QAM	826.5 - 846.5	0.047	16.71	0.077	18.86	4M53W7D
	3 MHz	QPSK	825.5 - 847.5	0.057	17.54	0.093	19.69	2M71G7D
		16QAM	825.5 - 847.5	0.046	16.63	0.076	18.78	2M71W7D
	1 / MH-	QPSK	824.7 - 848.3	0.056	17.49	0.092	19.64	1M10G7D
	1.4 101112	16QAM	824.7 - 848.3	0.045	16.51	0.073	18.66	1M10W7D
		π/2 BPSK	834.0 - 839.0	0.043	16.29	0.070	18.44	18M0G7D
	20 MHz	QPSK	834.0 - 839.0	0.042	16.25	0.069	18.40	19M0G7D
		16QAM	834.0 - 839.0	0.033	15.12	0.053	17.27	19M1W7D
		π/2 BPSK	831.5 - 841.5	0.045	16.52	0.074	18.67	13M5G7D
	15 MHz	QPSK	831.5 - 841.5	0.043	16.35	0.071	18.50	14M2G7D
NP Bond p26/5		16QAM	831.5 - 841.5	0.037	15.63	0.060	17.78	14M2W7D
NIX Dana 120/5		π/2 BPSK	829.0 - 844.0	0.045	16.54	0.074	18.69	9M01G7D
	10 MHz	QPSK	829.0 - 844.0	0.044	16.42	0.072	18.57	9M36G7D
		16QAM	829.0 - 844.0	0.034	15.38	0.057	17.53	9M37W7D
		π/2 BPSK	826.5 - 846.5	0.045	16.54	0.074	18.69	4M51G7D
	5 MHz	QPSK	826.5 - 846.5	0.044	16.40	0.072	18.55	4M51G7D
		16QAM	826.5 - 846.5	0.035	15.39	0.057	17.54	4M58W7D

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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(ies) 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. ("MD")

- 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: A3LSMS938B**. 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 22.

Test Device Serial No.: 0670R, 0741M, 0734M, 0286M, 0334M, 0099M, 0084M, 0081M

2.2 Device Capabilities

This device contains the following capabilities:

800/1900 GSM/GPRS/EDGE, GSM/GPRS/EDGE, WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR, WLAN, UNII, Bluetooth (1x, EDR, LE), NFC, WPT, UWB

This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

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.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: EP-P2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

Band	Ant1	Ant2	
GSM/GPRS	Ant A	Ant E	
WCDMA	Ant A	Ant E	
LTE Band 26/5	Ant A	Ant E	
NR Band n26/5	Ant A	Ant E	
Table 2-1 Antenna Naming Convention			

 Table 2-1. Antenna Naming Convention

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version S938BXXU0AXHN 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:

$P_{d [dBm]} = P_{g [dBm]} - cable loss [dB] + antenna gain [dBd/dBi];$

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 [dBm]} – 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:

$$\begin{split} E_{[dB\mu V/m]} &= Measured \ amplitude \ level_{[dBm]} + 107 + Cable \ Loss_{[dB]} + Antenna \ Factor_{[dB/m]} \\ And \\ EIRP_{[dBm]} &= E_{[dB\mu V/m]} + 20logD - 104.8; \ where \ D \ is the measurement \ distance \ in \ meters. \end{split}$$

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 (±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 – MD

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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
-	AP2	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	AP2
-	AP1	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	AP1
-	ETS	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	ETS
-	LTx1	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx1
-	LTx4	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx4
-	LTx5	LIcensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx5
Agilent	N9030A	50GHz PXA Signal Analyzer	4/23/2024	Annual	4/23/2025	US51350301
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6201381794
Emco	3116	Horn Antenna (18 - 40GHz)	7/5/2023	Triennial	7/5/2025	9203-2178
Espec	ESX-2CA	Environmental Chamber	9/26/2024	Annual	9/26/2026	17620
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/29/2023	Biennial	3/29/2025	128337
ETS Lindgren	3164-10	Quad Ridge Horn 400MHz - 10000MHz	7/13/2023	Biennial	7/13/2025	00166283
Keysight Technologies	N9020A	MXA Signal Analyzer	4/11/2024	Annual	4/11/2025	MY54500644
Keysight Technologies	N9030A	PXA Signal Analyzer	2/29/2024	Annual	3/1/2025	MY55410501
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11208010032
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11403100002
Rohde & Schwarz	CMW500	Radio Communication Tester		N/A		112347
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and Spectrum Analyzer	3/8/2024	Annual	3/8/2025	103187
Sunol	JB6	LB6 Antenna	3/2/2023	Biennial	3/2/2025	A082816

Table 5-1. Test Equipment Calibration Table – MD

Notes:

- 1. 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.
- 2. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE EMISSION DESIGNATORS

GSM Emission Designator

Emission Designator = 250KGXW

 $\begin{array}{l} \text{GSM BW} = 250 \ \text{kHz} \\ \text{G} = \text{Phase Modulation} \\ \text{X} = \text{Cases not otherwise covered} \\ \text{W} = \text{Combination (Audio/Data)} \end{array}$

EDGE Emission Designator

Emission Designator = 250KG7W EDGE BW = 250 kHz G = Phase Modulation 7 = Quantized/Digital Info W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M16F9W WCDMA BW = 4.16 MHz

F = Frequency Modulation 9 = Composite Digital Info W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz G = Phase Modulation 7 = Quantized/Digital Info D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz W = Amplitude/Angle Modulated 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.
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FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
Mode(s):	<u>GSM/GPRS/WCDMA/NR/LTE</u>

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.2
CTED	Conducted Band Edge / Spurious Emissions	2.1051, 22.917(a)	≥ 43 + 10 log (P[Watts]) dB of attenuation below transmitter power	PASS	Section 7.3, 7.4
NDNO	Peak-to-Average Ratio	N/A	≤ 13 dB	PASS	Sections 7.5
ŏ	Frequency Stability	2.1055, 22.355	The carrier frequency of the transmitter must be maintained within the 2.5ppm	PASS	Section 7.8
ATED	Effective Radiated Power / Equivalent Isotropic Radiated Power	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.6
RADI	Radiated Spurious Emissions	2.1053, 22.917(a)	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.7

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 v1.2.2.
- 5) No conducted powers were included in the report. For the conducted power measurements please see the **RF Exposure Report.**
- 6) Data was leveraged from model SM-S938U for the certification of SM-S938B/DS. See Table 7-2 for spot-check results.

FCC Rules	Test Item	Test Case		Limit	Reference Model: SM-S938U	Variant Model: SM-S938B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
	Conducted Output Power	Low Ch. 5MHz, 826.5MHz, QPSK, Ant A	dBm	N/A	24.81	24.79	-0.02	1	PASS
22	Occupied Bandwidth	Mid Ch, 15MHz, QPSK, Ant A	dBm	N/A	13.54	13.63	-	N/A	PASS
22	ERP	Mid Ch., 836.5MHz, QPSK, Ant A	dBm	>30	20.89	20.77	-0.12	3	PASS
	RSE	Mid Ch., 2509.5MHz, Ant E	dBm	-13	-48.18	-48.98	-0.80	3	PASS

Table 7-2. Summary of Spot-Checks

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
N	QPSK	26815	826.5	1/0	24.79
Ĥ		26915	836.5	1 / 12	24.42
5 N		27015	846.5	1 / 24	24.32
	16QAM	27015	846.5	1 / 24	23.81

Table 7-3. Conducted Output Power Measurements (Spot-check)



Plot 7-1. Occupied Bandwidth (Spot-check) – LTE Band 13 Ant 1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
3 MHz	QPSK	836.50	н	221	241	1.54	1/0	21.38	20.77	0.119	38.45	-17.68
				- 4								

Table 7-4. ERP Measurements (Spot-check)

Bandwidth (MHz):		15							
Frequency (MHz):		836.5							
RB / Offset:		1/37							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
2509.50	V	129	265	-56.78	-3.94	46.28	-48.98	-13.00	-35.98

Table 7-5. Radiated Spurious Measurements (Spot-check)

- 1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.
- 2. All test cases were performed to verify the variant EUT is still in compliance with the spot checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

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7.2 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 x 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 7-1. Test Instrument & Measurement Setup

Test Notes

None.

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Mode	Bandwidth	Modulation	OBW [MHz]
GSM-Cell		GMSK	0.246
GSM-Cell Edge	N/A	8-PSK	0.240
WCDMA-Cell		Spread Spectrum	4.15
		QPSK	13.54
LTE-B26-5	TOMEZ	16QAM	13.51
		QPSK	9.01
		16QAM	9.01
	5 M山-7	QPSK	4.50
	5 10112	16QAM	4.50
	2 M⊔→	QPSK	2.71
	3 IVII 12	16QAM	2.71
	1.4 MHz	QPSK	1.11
		16QAM	1.10
		π/2 BPSK	17.98
	20 MHz	QPSK	18.98
		16QAM	19.02
		π/2 BPSK	13.51
	15 MHz	QPSK	14.20
ND p26 5		16QAM	14.20
NK-N26-5		π/2 BPSK	9.00
	10 MHz	QPSK	9.35
		16QAM	9.35
		π/2 BPSK	4.51
	5 MHz	QPSK	4.53
		16QAM	4.58

Table 7-6. Occupied Bandwidth Results – Ant1

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GPRS Cell – Ant1



Plot 7-2. Occupied Bandwidth Plot (GPRS, Ch. 190 - Ant1)



Plot 7-3. Occupied Bandwidth Plot (EDGE, Ch. 190 - Ant1)

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WCDMA Cell – Ant1

Keysight Spectrum Analyzer - Occupied	IBW				
LXI RE 50Ω DC	CORREC	SENSE:INT A	ALIGN AUTO 09:02:26	AM Sep 27, 2024	Trace/Detector
	Trig: I	Free Run Avg Hold:	100/100	a. None	
	#IFGain:Low #Atter	n: 36 dB	Radio De	vice: BTS	
10 dB/div Ref 40.00 dB	3m				
Log					
30.0					Clear Write
20.0	(manufacture of the second se				
10.0					
0.00					
-10.0					Average
-20.0	m		m n n		
-30.0			the strength and the st	man	
-40.0					Max Hold
-50.0					
Center 836.600 MHZ	#		span	15.00 IVIHZ	
Res DW TJO KIIZ	"	VOVV STORIZ	30	eep mis	Min Hold
Occupied Bandwig	dth	Total Power	33.3 dBm		
	1526 MH-				Detector
	F. 1320 WITZ				Peak►
Transmit Freq Error	-1.177 kHz	% of OBW Powe	r 99.00 %		Auto <u>Man</u>
x dB Bandwidth	4 775 MHz	x dB	-26 00 dB		
	4.110 11112		20.00 48		
MSG			STATUS		

Plot 7-4. Occupied Bandwidth Plot (WCDMA, Ch. 4183 – Ant1)

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LTE Band 26/5 – Ant1

Keysight Spectrum Analyzer - Occi	upied BW				
L RF 50 Ω	DC CORREC	SENSE:INT	ALIGN AUTO	03:05:38 PM Sep 12, 2024 Radio Std: None	Trace/Detector
	↔	Trig: Free Run	Avg Hold: 100/100		
	#IFGain:Low	#Atten: 36 dB		Radio Device: BTS	
10 dB/div Ref 40.00	dBm				
ann					
30.0					Clear Write
20.0	Marine	and we have a state of the second	mahan		
10.0					
0.00	/				
-10.0	and the second		Wenter -		Average
-20.0			- and the state	man hun my hun	
-30.0				້ ^{~~} "ນ _ທ	
-40.0					Max Hold
-50.0					
				0	
Center 830.50 MHZ		#\/R\A(12 M	IHZ	Span 37.30 MHz Sween 1 ms	
NC3 DW 300 KHZ		#¥64¥ 1.21¥	112	oweep mis	Min Hold
Occupied Bandy	width	Total P	ower 30.	9 dBm	
	13 536 M	47			Detector
	13.330 101	112			Peak►
Transmit Freq Erre	or -31.176	kHz % of Ol	3W Power 99	9.00 %	Auto <u>Man</u>
x dB Bandwidth	14 66 1	/Hz xdB	-26	00 dB	
	111001		20		
				-	
MSG			STATU	S	

Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB - Ant1)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB - Ant1)

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Plot 7-7. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz QPSK - Full RB - Ant1)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz 16-QAM - Full RB - Ant1)

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Plot 7-9. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz QPSK - Full RB - Ant1)



Plot 7-10. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz 16-QAM - Full RB - Ant1)

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Keysight Spectrum Analyzer - Occ	upied BW							- d ×
LXI L RF 50 Ω	DC CORREC	SENS Center Fre	E:INT q: 836.500000 MHz	ALIGN AUTO	03:12:39 Pf Radio Std:	None	Trac	e/Detector
	#IFGain:Lo	Trig: Free I #Atten: 36	Run Avg H dB	lold: 100/100	Radio Dev	ice: BTS		
10 dB/div Ref 40.00) dBm							
20.0							(Clear Write
10.0	m	www.how	when the show have the	∧ <u>_</u>				
-10.0	N and Ba proved			la l				Average
-20.0	M. Mary Luke			all still by the second s	myleger	montantra		
-30.0								Max Hold
Center 836.500 MHz Res BW 68 kHz		#VB\	N 220 kHz		Span 7 Swee	.500 MHz p 3.8 ms		Min Hold
Occupied Band	width		Total Power	30.9	dBm			
	2.7082	MHz						Detector Peak▶
Transmit Freq Err	or 1.2	78 kHz	% of OBW Po	ower 99	9.00 %		Auto	Man
x dB Bandwidth	3.06	2 MHz	x dB	-26.	00 dB			
MSG				STATU	S			

Plot 7-11. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz QPSK - Full RB - Ant1)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz 16-QAM - Full RB - Ant1)

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Plot 7-13. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB - Ant1)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz 16-QAM - Full RB - Ant1)

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NR Band n26/5 – Ant1



Plot 7-15. Occupied Bandwidth Plot (NR Band n26/5 - 20MHz π/2 BPSK - Full RB - Ant1)



Plot 7-16. Occupied Bandwidth Plot (NR Band n26/5 - 20MHz QPSK - Full RB - Ant1)

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Plot 7-17. Occupied Bandwidth Plot (NR Band n26/5 - 20MHz 16-QAM - Full RB - Ant1)



Plot 7-18. Occupied Bandwidth Plot (NR Band n26/5 - 15MHz π/2 BPSK - Full RB - Ant1)

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Keysight Spectrum Analyzer - Occupier	d BW				
LXIRLT RF 50Ω DC	C CORREC	SENSE:INT	ALIGN AUTO 03:29:27 F	M Sep 06, 2024	Trace/Detector
		Trig: Free Run Avg Ho	Id: 100/100	: None	
	#IFGain:Low	#Atten: 36 dB	Radio De	vice: BTS	
10 dB/div Ref 40.00 dl	Bm				
Log					
30.0					Clear Write
20.0	10 marsh how all	who where we want the second			
10.0					
0.00					
-10.0					Average
-20.0 The Arthur Martin Contraction			- The set of the set o	- Thurber	
-30.0				Why way	
-40.0					Max Hold
-50.0					
Center 836.50 MHz			Span (87.50 MHz	
Res BW 360 KHz		#VBW 1.1 MHZ	Sw	eep 1 ms	Min Hold
Occupied Bandwi	dth	Total Power	30.0 dBm		
Cooupled Dallar					
	14.199 MH	Z			Detector Beak
Transmit Freq Error	-13.757 kl	Hz % of OBW Pov	ver 99.00 %		Auto <u>Man</u>
x dB Bandwidth	15.35 MH	lz xdB	-26.00 dB		
			OTATIO		
MSG			STATUS		

Plot 7-19. Occupied Bandwidth Plot (NR Band n26/5 - 15MHz QPSK - Full RB - Ant1)



Plot 7-20. Occupied Bandwidth Plot (NR Band n26/5 - 15MHz 16-QAM - Full RB - Ant1)

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Keysight Spectrum Analyzer - Occupied B	W						
KX RLT RF 50Ω DC	CORREC	SENSE:INT Senter Freq: 836.500	A 000 MHz AvalHold:	LIGN AUTO 03:54 Radio	:01 PM Sep 06, 2024 Std: None	Trac	e/Detector
	#IFGain:Low #	Atten: 36 dB	Avginoid.	Radio	Device: BTS		
10 dB/div Ref 40.00 dB	m						
20.0						(Clear Write
10.0		men ward	mmy				
0.00	/						
10.0			L L				Average
							Average
-20.0 martine mart	⁴ , M,			adress and a second and a second s	mar and		
-30.0							
-40.0							Max Hold
-50.0						_	
Center 836.50 MHz				Spa	n 25.00 MHz		
Res BW 240 kHz		#VBW 750 k	Hz		Sweep 1ms		Min Hold
Occupied Dendurid	4b	Total P	ower	32.0 dBm			
Occupied Bandwid		Total I	OWEI	52.0 UDII			
9.	.0020 MHz						Detector
Transmit Freq Error	-196.03 kHz	z % of O	3W Powe	r 99.00 %	,)	Auto	Peak ► <u>Man</u>
x dB Bandwidth	9.863 MHz	z x dB		-26.00 dE	3		
MSG				STATUS			

Plot 7-21. Occupied Bandwidth Plot (NR Band n26/5 - 10MHz π/2 BPSK - Full RB - Ant1)



Plot 7-22. Occupied Bandwidth Plot (NR Band n26/5 - 10MHz QPSK - Full RB - Ant1)

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Keysight Spectrum Analyzer - Occupied B ¹	w				
()2 RLT RF 50Ω DC	CORREC Center Trig: F #IFGain:Low #Atten	SENSE:INT r Freq: 836.500000 MHz Free Run Avg Hold: 1: 36 dB	ALIGN AUTO 03:54:12 F Radio Std :>100/100 Radio Dev	M Sep 06, 2024 : None vice: BTS	Trace/Detector
10 dB/div Ref 40.00 dBr	m				
20.0					Clear Write
10.0 0.00 -10.0	where a start where the start		Marthan and Parts of Sola		Average
-30.0 -40.0 -50.0					Max Hold
Center 836.50 MHz Res BW 240 kHz	#	VBW 750 kHz	Span 2 Swi	25.00 MHz eep 1 ms	Min Hold
Occupied Bandwid 9.	th .3532 MHz	Total Power	29.5 dBm		Detector Peak▶
Transmit Freq Error x dB Bandwidth	-8.182 kHz 10.35 MHz	% of OBW Powe x dB	ər 99.00 % -26.00 dB		Auto <u>Man</u>
MSG			STATUS		

Plot 7-23. Occupied Bandwidth Plot (NR Band n26/5 - 10MHz 16-QAM - Full RB - Ant1)



Plot 7-24. Occupied Bandwidth Plot (NR Band n26/5 - 5MHz π/2 BPSK - Full RB - Ant1)

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Plot 7-25. Occupied Bandwidth Plot (NR Band n26/5 - 5MHz QPSK - Full RB - Ant1)



Plot 7-26. Occupied Bandwidth Plot (NR Band n26/5 - 5MHz 16-QAM - Full RB - Ant1)

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Mode	Bandwidth	Modulation	OBW [MHz]
GSM-Cell		GMSK	0.245
GSM-Cell Edge	N/A	8-PSK	0.240
WCDMA-Cell		Spread Spectrum	4.15
	151/147	QPSK	13.51
I TE-B26-5		16QAM	13.51
		QPSK	9.03
		16QAM	9.02
		QPSK	4.51
LTE-D20-5		16QAM	4.53
	3 MH-7	QPSK	2.71
		16QAM	2.71
	14 MH7	QPSK	1.10
	1.4 1011 12	16QAM	1.10
		π/2 BPSK	17.99
	20 MHz	QPSK	18.99
		16QAM	19.11
		π/2 BPSK	13.50
	15 MHz	QPSK	14.21
NR-n26-5		16QAM	14.24
		π/2 BPSK	9.01
	10 MHz	QPSK	9.36
		16QAM	9.37
		π/2 BPSK	4.51
	5 MHz	QPSK	4.51
		16QAM	4.58

Table 7-7. Occupied Bandwidth Results - Ant2

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GPRS Cell – Ant2



Plot 7-27. Occupied Bandwidth Plot (GPRS, Ch. 190 – Ant2)



Plot 7-28. Occupied Bandwidth Plot (EDGE, Ch. 190 – Ant2)

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WCDMA Cell – Ant2



Plot 7-29. Occupied Bandwidth Plot (WCDMA, Ch. 4183 - Ant2)

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LTE Band 26/5 – Ant2

Keysight Spectrum Analyzer - Occupied BW 03:42:12 PM Sep 12, 2024 ALIGN AUTO Center Freq: 836.500000 MHz Trig: Free Run Avg|Ho #Atten: 36 dB Trace/Detector Radio Std: None Avg|Hold: 100/100 #IFGain:Low Radio Device: BTS 10 dB/div Ref 40.00 dBm **Clear Write** طر الد a .A Average /Իշմե Max Hold Center 836.50 MHz Res BW 360 kHz Span 37.50 MHz #VBW 1.2 MHz Sweep 1 ms Min Hold **Total Power** 30.6 dBm **Occupied Bandwidth** 13.514 MHz Detector Peak▶ Auto **Transmit Freq Error** 54 Hz % of OBW Power 99.00 % Man x dB Bandwidth -26.00 dB 14.96 MHz x dB MSG STATUS

Plot 7-30. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB - Ant2)



Plot 7-31. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB - Ant2)

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Keysight Spectrum Analyzer - Occupi	ied BW						
LXI L RF 50 Ω D	DC CORREC	SENSE:INT	ALIGN AUTO	03:43:09 PM S	ep 12, 2024	Trace	Detector
	-+	Trig: Free Run	Avg Hold: 100/100				
	#IFGain:Low	#Atten: 36 dB		Radio Device	e: BTS		
10 dB/div Ref 40.00 c	dBm						
30.0							
20.0						С	lear Write
10.0	hmann	ᡣᠬᡊᢩᡗᢛᡊᡰᢑᡎᡃ᠋ᢦᢛᢢᡘᡃᡅᠬ᠊ᢉ᠁ᠲᡭ	Amminin				
0.00							
10.0	J.		h h				Average
-10.0	nernun		The whether and				Average
-20.0 Armatic all and				and for the manual stranged for	mylynn		
-30.0							
-40.0							Max Hold
-50.0							
Center 836.50 MHz				Span 25.	00 MHz		
Res BW 240 kHz		#VBW 750	Hz	Swee	p 1 ms		Min Hold
		T - 4 - 1 D		7 -110			
Occupied Bandw	idth	Total P	ower 30.	/ dBm			
	9.0286 MI	Hz					Detector
Transmit Frag Error	4 7 26 1			0.00 %		Auto	Peak►
Transmit Freq Error	1.720		BW Power 98	9.00 %		Auto	INIAII
x dB Bandwidth	10.08 M	IHz xdB	-26	.00 dB			
MSG			STATU	s			

Plot 7-32. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz QPSK - Full RB - Ant2)



Plot 7-33. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 21 of 102
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Keysight Spectrum Analyzer - Occ	cupied BW										
<mark>LX</mark> L RF 50 Ω	DC CORR	EC	SEN	NSE:INT	000 MH-	ALIG	N AUTO	03:46:10 P	4 Sep 12, 2024	Trac	e/Detector
			Trig: Free	eq. 000.000 e Run	Avg Hol	d: 100)/100	Radio Stu	None		
	#IFGa	ain:Low	#Atten: 3	6 dB				Radio Dev	ice: BTS		
10 dB/div Ref 40.0	0 dBm										
Log											
30.0											Clear Write
20.0		mon	mm	man	mar						
10.0		/				1					
0.00						7					
-10.0	Ĵ					5					Average
-20.0	A Martin War					~	Mr. John My				
-30.0 mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www.www.ww		
-40.0											Max Hold
-50.0											Maxinona
Center 836.500 MHz								Span 1	2.50 MHz		
Res BW 120 KHZ			#VE	SW 390 K	HZ			SWG	ep 1 ms		Min Hold
Occupied Band	width			Total P	ower		30.6	dBm			
Occupied Band											
	4.510)5 MF	IZ								Detector
Transmit Freq Err	or	-2.591 k	Hz	% of O	BW Pov	/er	99.	.00 %		Auto	Man
x dB Bandwidth		5.070 M	Hz	x dB			-26.0	00 dB			
X dB Bananian		0.010 m	112	AdB							
MSG							STATUS				

Plot 7-34. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz QPSK - Full RB - Ant2)



Plot 7-35. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 22 of 102
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Keysight Spectrum Analyzer - Occ	cupied BW								
LXI L RF 50 Ω	DC CORREC	Center F	ENSE:INT Fred: 836.5000	00 MHz	ALIGN AUTO	03:47:10 P	Sep 12, 2024	Trac	e/Detector
		Trig: Fre	e Run	Avg Hold:	100/100				
	#IFGain:l	Low #Atten: 3	36 dB			Radio Dev	ice: BTS		
10 dB/div Ref 40.00	0 dBm								
30.0									
20.0									Clear Write
10.0	l port	hannertherestown	anny warder	mound					
				h,					
10.0				4	h.				Average
20.0	mann				my and				Arren age
20.0 marchaland march 10 million						Caller Million	maligner		
-30.0									
-4U.U									Max Hold
-50.0								-	
Center 836.500 MHz						Span 7	.500 MHz		
Res BW 68 kHz		#VI	BW 220 kl	lz		Swee	p 3.8 ms		Min Hold
Bernel Band			Total Da	wor	20.7	dDm			
Occupied Band	wiath		Total Po	ower	30.7	01-1111			
	2.7072	2 MHz							Detector
Transmit Fred Fr		574 kHz	% of OB		ar 00	00 %		Auto	Peak▶ Man
	01 1.	574 KHZ	% 01 OB		si 55	.00 /8		Auto	man
x dB Bandwidth	3.0	073 MHz	x dB		-26.	00 dB			
MSG					STATUS				

Plot 7-36. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz QPSK - Full RB - Ant2)



Plot 7-37. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 22 of 102
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Plot 7-38. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB - Ant2)



Plot 7-39. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 24 of 102
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NR Band n26/5 – Ant2



Plot 7-40. Occupied Bandwidth Plot (NR Band n26/5 - 20MHz π/2 BPSK - Full RB - Ant2)



Plot 7-41. Occupied Bandwidth Plot (NR Band n26/5 - 20MHz QPSK - Full RB - Ant2)

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 25 of 102
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Keysight Spectrum Analyzer - Occupied I	BW						
(X/RLT RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO	11:17:40 A	M Sep 06, 2024	Trac	e/Detector
	tipe Tr	rig: Free Run	Avg Hold: 100/100	Raulo Sta	None		
	#IFGain:Low #A	Atten: 36 dB		Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dB	m						
200	<u>د محالمًا</u>						
20.0	<u>د کا الم</u>						Clear Write
10.0	manne	werther and	www.				
0.00							
40.0							Average
-10.0	NUM MA		harry with the start of the sta	n			Average
-20.0 And				Mr. Way			
-30.0							
-40.0					mannent		Max Hold
-50.0							
Center 836.50 MHz				Span 5	0.00 MHz		
Res BW 470 kHz		#VBW 1.5 M	Hz	Swe	ep 1 ms		Min Hold
							Millinoid
Occupied Bandwid	lth	Total Po	ower 29.	7 dBm			
1	9.112 MHz						Detector
	00.477.515	N - 5 0 D		0.00 0/		A	Peak►
Transmit Freq Error	-23.4// KHZ	% of OB	W Power 9	9.00 %		Auto	Man
x dB Bandwidth	20.38 MHz	x dB	-26	.00 dB			
MSG			STATU	JS			

Plot 7-42. Occupied Bandwidth Plot (NR Band n26/5 - 20MHz 16-QAM - Full RB - Ant2)



Plot 7-43. Occupied Bandwidth Plot (NR Band n26/5 - 15MHz π/2 BPSK - Full RB - Ant2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 26 of 102
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Keysight Spectrum Analyzer - Occupied E	3W				- d x
LXX RLT RF 50Ω DC	CORREC Cente Trig: #EGain:Low	SENSE:INT er Freq: 836.500000 MHz Free Run Avg Hold n: 36 dB	ALIGN AUTO 11:30:23 Radio St d: 100/100 Radio De	AM Sep 06, 2024 d: None	Trace/Detector
10 dB/div Ref 40.00 dB	m				
20.0		All mar phay mar Watter			Clear Write
10.0 0.00 -10.0	Num				Average
-20.0 10				ANG	Max Hold
Center 836.50 MHz Res BW 360 kHz	#	≇VBW 1.1 MHz	Span Sw	37.50 MHz eep 1 ms	Min Hold
Occupied Bandwid	th 4.207 MHz	Total Power	29.6 dBm		Detector Peak▶
Transmit Freq Error x dB Bandwidth	-3.793 kHz 15.32 MHz	% of OBW Pow x dB	ver 99.00 % -26.00 dB		Auto <u>Man</u>
MSG			STATUS		

Plot 7-44. Occupied Bandwidth Plot (NR Band n26/5 - 15MHz QPSK - Full RB - Ant2)



Plot 7-45. Occupied Bandwidth Plot (NR Band n26/5 - 15MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT				
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Keysight Spectrum Analyzer - Occupied	BW						×
LXI RLT RF 50Ω DC	CORREC	SENSE:INT	ALIGN	AUTO 11:42:31 Al Radio Std:	1 Sep 06, 2024	Trace/Detec	tor
		Trig: Free Run	Avg Hold:>100	0/100	None		
	#IFGain:Low #	#Atten: 36 dB		Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dE	Bm						
Log an n	و معدال کے						
30.0						ClearV	Nrite
20.0	mont	man from the	mm				
10.0							
0.00							
-10.0						Ave	rage
-20.0	than -		سهيدم	ma man	mm Ann.		
-30.0	و و الک						
-40.0						Мах	Hold
-50.0	ومصالعك						
Center 836.50 MHz		#V(D))/ 750 k		Span 2	5.00 MHz		
Res BW 240 KHZ		#VBW 750 K	Hz	Swe	ep Tims	Min	Hold
Occupied Bandwig	dth	Total P	ower	31.5 dBm			
9	0.0058 MHz	Z				Dete	ector
Transmit Freg Error	-197.10 kH	z % of OE	SW Power	99.00 %		Auto	Man
x dD Dondwidth	0.972 MH	a vdP		26.00 dB			
	9.072 MH			-20.00 dB			
MSG				STATUS			

Plot 7-46. Occupied Bandwidth Plot (NR Band n26/5 - 10MHz π/2 BPSK - Full RB - Ant2)



Plot 7-47. Occupied Bandwidth Plot (NR Band n26/5 - 10MHz QPSK - Full RB - Ant2)

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT				
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Keysight Spectrum Analyzer - Occupied	BW				- 7 -
LXURLT RF 50Ω DC	CORREC	SENSE:INT ter Freq: 836.500000 MHz	ALIGN AUTO 11	1:43:16 AM Sep 06, 2024 dio Std: None	Trace/Detector
	#IFGain:Low #Att	∴FreeRun Avg Ho ten:36 dB	old: 100/100 Ra	dio Device: BTS	
	in connect				
10 dB/div Ref 40.00 dB	Bm				
30.0					
20.0	<u>س محالماً</u>				Clear Write
10.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>^</u>		
0.00					
-10.0					Average
-20.0 -20.0				man man	
-30.0					
-40.0					Max Hold
-50.0					
Center 836.50 MHz			S	pan 25.00 MHz	
Res BW 240 KHZ		#VBW 750 KHZ		Sweep Tims	Min Hold
Occupied Bandwig	dth	Total Power	29.9 dE	Bm	
9	9.3654 MHz				Detector
Transmit Fred Error	-3 6/8 kHz	% of OBW Po	wer 99.00	0/_	Peak► Auto Man
v dB Bandwidth	40.20 MHz		26.00		
X dB Bandwidth	10.39 MHZ	хав	-26.00	dB	
MSG			STATUS		

Plot 7-48. Occupied Bandwidth Plot (NR Band n26/5 - 10MHz 16-QAM - Full RB - Ant2)



Plot 7-49. Occupied Bandwidth Plot (NR Band n26/5 - 5MHz $\pi/2$ BPSK - Full RB - Ant2)

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT				
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Plot 7-50. Occupied Bandwidth Plot (NR Band n26/5 - 5MHz QPSK - Full RB - Ant2)



Plot 7-51. Occupied Bandwidth Plot (NR Band n26/5 - 5MHz 16-QAM - Full RB - ABnt2)

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT					
Test Report S/N:	est Report S/N: Test Dates: EUT Type: vl2408260069-04.A3L 09/06/2024 - 11/08/2024 Portable Handset		Page 40 of 102				
1M2408260069-04.A3L			Faye 40 01 102				
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7.3 Spurious and Harmonic Emissions at Antenna Terminal

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.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

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

- Per Part 22 and RSS-132, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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Mode	Bandwidth	Channel	Range	Level	Limit	Margin
Widde	Bandwidth	Channer	[MHz]	[dBm]	[dBm]	[dB]
		Low	30.0 - 823.0	-32.30	-13.0	-19.30
		Low	849.0 - 1000.0	-56.65	-13.0	-43.65
		Low	1000.0 - 10000.0	-29.26	-13.0	-16.26
		Mid 30.0 - 824.0 -56		-56.27	-13.0	-43.26
GSM-Cell	250kHz	Mid	849.0 - 1000.0	-56.71	-13.0	-43.71
		Mid	1000.0 - 10000.0	-29.90	-13.0	-16.90
		High	30.0 - 824.0	-56.42	-13.0	-43.42
		High	850.0 - 1000.0	-36.71	-13.0	-23.71
		High	1000.0 - 10000.0	-28.25	-13.0	-15.25
		Low	30.0 - 823.0	-27.82	-13.0	-14.82
		Low	849.0 - 1000.0	-65.79	-13.0	-52.79
		Low	1000.0 - 10000.0	-46.96	-13.0	-33.96
		Mid	30.0 - 824.0	-56.63	-13.0	-43.63
WCDMA-Cell	5MHz	Mid	849.0 - 1000.0	-57.69	-13.0	-44.69
		Mid	1000.0 - 10000.0	-47.59	-13.0	-34.59
		High	30.0 - 824.0	-64.94	-13.0	-51.94
		High	850.0 - 1000.0	-30.90	-13.0	-17.90
		High	1000.0 - 10000.0	-47.71	-13.0	-34.71
		Low	30.0 - 823.0	-61.89	-13.0	-48.89
		Low	849.0 - 1000.0	-65.27	-13.0	-52.26
		Low	1000.0 - 10000.0	-44.88	-13.0	-31.88
		Mid	30.0 - 824.0	-64.08	-13.0	-51.08
LTE-B26-5	10MHz	Mid	849.0 - 1000.0	-65.05	-13.0	-52.05
		Mid	1000.0 - 10000.0	-44.53	-13.0	-31.53
		High	30.0 - 824.0	-64.97	-13.0	-51.97
		High	850.0 - 1000.0	-62.66	-13.0	-49.66
		High	1000.0 - 10000.0	-44.68	-13.0	-31.68
		Low	30.0 - 824.0	-60.61	-13.0	-47.61
		Low	849.0 - 1000.0	-63.84	-13.0	-50.84
		Low	1000.0 - 10000.0	-45.19	-13.0	-32.19
		Mid	30.0 - 824.0	-61.59	-13.0	-48.59
NR-n26-5	20MHz	Mid	849.0 - 1000.0	-62.76	-13.0	-49.76
		Mid	1000.0 - 10000.0	-45.77	-13.0	-32.77
		High	30.0 - 824.0	-63.20	-13.0	-50.20
		High	849.0 - 1000.0	-63.10	-13.0	-50.10
		High	1000.0 - 10000.0	-45.26	-13.0	-32.26

 Table 7-8. Conducted Spurious Emissions Results – Ant1

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT					
Test Report S/N:	Tt S/N: Test Dates: EUT Type: 169-04.A3L 09/06/2024 - 11/08/2024 Portable Handset		Dogo 42 of 102				
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GSM/GPRS Cell - Ant1

Spec Swep	trum Analy et SA	zer 1	+					*	Frequency	- * 詳
KEY RL	′SIGHT ↔ PASS	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S NFE: Off	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS Trig: Free Run	123456 M WWWWW ANNNNN	Center F 427.000	requency 0000 MHz	Settings
1 Spe	ectrum	•				Mkr1 78	3.65 MHz	Span 794.000	0000 MHz	
Scale Log	e/Div 10 d	B		Ref Level 20.0	00 dBm	-5	6.42 dBm	Swe Zer	ept Span o Span	
10.0	Trace							FI	ull Span	
0.00								Start Fre	eq .	
-10.0								30.0000	000 MHz	
-20.0								Stop Fre 824.000	eq 0000 MHz	
-30.0								AU	TO TUNE	
-40.0								CF Step		
-50.0							1-	79.4000 Aut	o MHz	
-60.0	PROPERTY OF STREET		a belevative of all has seen it is the state		and a state of the	na stalan mendelaka, kan panta kana dipensi kasila stalan berdara Mana pengan kati kapan kana penan kan penanta stalan mendelak	hin menu kinderen en diserenten bildeter	Mai	n nat	
-70.0								0 Hz	sei	
Start #Res	30.0 MHz BW 100 F	Hz		#Video BW 3	00 kHz	Steep 38.1 m	op 824.0 MH: is (15881 pts	X Axis S Loc Lin	cale	
	5		? Nov 01, 2024 9:26:44 AM					Signal T (Span Zo	rack om)	

Plot 7-52. Conducted Spurious Plot (GPRS Ch. 251 – Ant1)

Spect Swep	rum Analy t SA	zer 1	+									Frequency	- * 崇
KEY RL	SIGHT ↔ PASS	Input: RF Coupling: DC Align: Auto	Input Z: Corr CC Freq Re NFE: O	50 Ω corr of: Int (S) ff	Atten: 30 dB	PNO: I Gate: I IF Gain Sig Tra	Fast Off n: Low ack: Off	#Avg Type: F Trig: Free Ru	Power (RMS 1 In P	L 2 3 4 5 6 1 WW WW W A N N N N N	Center Fi 925.000	requency 000 MHz	Settings
1 Spe	ctrum	T			1			Ň	1kr1 850	0.00 MHz	Span 150.000	000 MHz	
Scale Log	Div 10 d	3			Ref Level 20	.00 dBm			-36	.71 dBm	Swe Zerc	pt Span Span	
10.0	Irace	I Pass									Fu	Il Span	
0.00											Start Free 850.000	9 000 MHz	
-10.0 -20.0											Stop Free 1.00000	7 0000 GHz	
-30.0	1										AUT	O TUNE	
-40.0	Ř.										CF Step 15.0000	00 MHz	
-50.0 -60.0	- Wyanine	والمحافظ المراقعة مقادمة والمراقع	Look N. M. Karain di	himitan	والمتعادية والمتعادية والمتعاد	anti-	hallow and dot	hilmintenation	Warning	ويتعاد والمعاد	Auto Man		
-70.0							and an address				Freq Offs 0 Hz	et	
Start #Res	0.85000 G BW 100 k	Hz Hz			#Video BW	300 kHz		Sw	Stop 1 veep 7.20 m	.00000 GH: s (3001 pts	X Axis So Log Lin	cale	
E	5	3	? Nov 0 9:26:	1, 2024 51 AM	ÐA						Signal Tr	ack	

Plot 7-53. Conducted Spurious Plot (GPRS Ch. 251 - Ant1)

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Plot 7-54. Conducted Spurious Plot (GPRS Ch. 251 - Ant1)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
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WCDMA Cell – Ant1

🔤 Keysigh	t Spectrum Analyzer - Swe	ept SA								
lxi rl	RF 50 Ω	DC CO	RREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	09:06:23 A	M Sep 27, 2024	Frequency
PASS	v Ref 20.00 d	P IF	NO: Fast ↔ Gain:Low	Trig: Free Atten: 30	e Run I dB		N	/lkr1 822. -27.8	80 MHz 21 dBm	Auto Tun
10.0	ace 1 Pass									Center Fre 426.500000 M⊦
-10.0										Start Fre 30.000000 M⊦
-20.0									1/ →	Stop Fre 823.000000 M⊦
-40.0										CF Ste 79.300000 M⊢ <u>Auto</u> Ma
-60.0			en (Denskalation of Science Concession) and the second							Freq Offse 0 ⊢
										Scale Typ
Start 3 #Res B	0.0 MHz W 100 kHz		#VBW	300 kHz		s	weep 3	Stop 8 38.06 ms (1	23.0 MHz 5861 pts)	Log <u>Li</u>
MSG							STAT	US		

Plot 7-55. Conducted Spurious Plot (WCDMA Low – Ant1)



Plot 7-56. Conducted Spurious Plot (WCDMA Low – Ant1)

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Plot 7-57. Conducted Spurious Plot (WCDMA Low – Ant1)

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LTE Band 26/5 – Ant1

🔤 Keysight Spe	ectrum Analyzer - Swe	ept SA								
X L	RF 50 Ω	DC	CORREC	SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	03:10:47 P	M Sep 12, 2024	Frequency
PASS	Ref 20.00 r	iBm	PNO: Fast IFGain:Low	Atten: 30	e Run) dB			Wkr1 820 -64.0	.05 MHz 81 dBm	Auto Tune
10.0 Trace	e 1 Pass									Center Free 427.000000 MH
-10.00										Start Free 30.000000 MH
30.0										Stop Fre 824.000000 MH
40.0										CF Ste 79.400000 MH <u>Auto</u> Ma
	essi u gala din 1000 di kuming (co	المراجع والمراجع والمراجع	of surgery and an and a strength of the streng		andra di alta anna di Administra a Administra	share any face illustrate protected				Freq Offse 0 H
-70.0			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							Scale Type
Start 30.0 #Res BW	MHz 100 kHz		#VBW	300 kHz		s	weep	8 Stop 38.11 ms (1	24.0 MHz 5881 pts)	Log <u>Lir</u>
//SG							STAT	rus		

Plot 7-58. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel – Ant1)



Plot 7-59. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel – Ant1)

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Plot 7-60. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel - Ant1)

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NR Band n26/5 – Ant1

Keysight S	pectrum Analyzer - Sw	ept SA								
lxi rlt	RF 50 Ω	DC	CORREC	SENSE	INT	#Avg Type	ALIGN AUTO e: RMS	03:20:15 PM TRAC	I Sep 06, 2024 E 1 2 3 4 5 6	Frequency
PASS	Ref 20.00 (dBm	PNO: Fast ++ IFGain:Low	Atten: 30 d	tun B		М	kr1 823. -60.6	45 MHz 12 dBm	Auto Tune
10.0 Tra	ce 1 Pass									Center Fred 427.000000 MH;
-10.0										Start Free 30.000000 MH;
-20.0										Stop Fred 824.000000 MH:
-40.0										CF Step 79.400000 MH: <u>Auto</u> Mar
-60.0	Les esse citation de attice de attice de la socie y a								1	Freq Offse 0 H:
Start 30	0 MHz	Tart Management						Stop 8	24.0 MHz	Scale Type
#Res BV	100 kHz		#VBW	300 kHz		S	weep 3	3.11 ms (1	5881 pts)	
MSG							STATU	S		





Plot 7-62. Conducted Spurious Plot (NR Band n26/5 - 20.0MHz - 1 RB - Low Channel - Ant1)

FCC ID: A3LSMS938B		PART 22 MEASUREMENT REPORT		
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Plot 7-63. Conducted Spurious Plot (NR Band n26/5 - 20.0MHz - 1 RB - Low Channel - Ant1)

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Mode Ba	ndwidth	Channel	Range	Level	Limit	Margin
	indwidth	Onanner	[MHz]	[dBm]	[dBm]	[dB]
		Low	30.0 - 823.0	-32.52	-13.0	-19.52
		Low	849.0 - 1000.0	-56.56	-13.0	-43.56
		Low	1000.0 - 10000.0	-29.80	-13.0	-16.80
		Mid	30.0 - 824.0	-53.99	-13.0	-40.98
GSM-Cell 2	250kHz	Mid	849.0 - 1000.0	-56.97	-13.0	-43.96
		Mid	1000.0 - 10000.0	-29.04	-13.0	-16.04
		High	30.0 - 824.0	-54.02	-13.0	-41.02
		High	850.0 - 1000.0	-33.58	-13.0	-20.58
		High	1000.0 - 10000.0	-29.79	-13.0	-16.79
		Low	30.0 - 823.0	-27.07	-13.0	-14.07
		Low	849.0 - 1000.0	-65.37	-13.0	-52.37
		Low	1000.0 - 10000.0	-47.30	-13.0	-34.30
		Mid	30.0 - 824.0	-56.46	-13.0	-43.46
WCDMA-Cell	5MHz	Mid	849.0 - 1000.0	-57.17	-13.0	-44.17
		Mid	1000.0 - 10000.0	-47.35	-13.0	-34.35
		High	30.0 - 824.0	-64.86	-13.0	-51.86
		High	850.0 - 1000.0	-29.31	-13.0	-16.31
		High	1000.0 - 10000.0	-47.35	-13.0	-34.35
		Low	30.0 - 823.0	-61.90	-13.0	-48.90
		Low	849.0 - 1000.0	-65.45	-13.0	-52.45
		Low	1000.0 - 10000.0	-45.06	-13.0	-32.06
		Mid	30.0 - 824.0	-64.92	-13.0	-51.92
LTE-B26-5 1	10MHz	Mid	849.0 - 1000.0	-65.20	-13.0	-52.20
		Mid	1000.0 - 10000.0	-45.19	-13.0	-32.19
		High	30.0 - 824.0	-65.30	-13.0	-52.30
		High	850.0 - 1000.0	-62.91	-13.0	-49.91
		High	1000.0 - 10000.0	-46.08	-13.0	-33.08
		Low	30.0 - 824.0	-59.92	-13.0	-46.91
		Low	849.0 - 1000.0	-63.79	-13.0	-50.79
		Low	1000.0 - 10000.0	-45.89	-13.0	-32.89
		Mid	30.0 - 824.0	-61.81	-13.0	-48.81
NR-n26-5 2	20MHz	Mid	849.0 - 1000.0	-62.77	-13.0	-49.77
		Mid	1000.0 - 10000.0	-45.87	-13.0	-32.87
		High	30.0 - 824.0	-62.28	-13.0	-49.28
		High	849.0 - 1000.0	-62.67	-13.0	-49.67
		High	1000.0 - 10000.0	-45.94	-13.0	-32.94

Table 7-9. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMS938B		Approved by: Technical Manager		
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GSM/GPRS Cell - Ant2

Spec Swej	trum Analy pt SA	rzer 1	+					Frequ	iency v 👫
KE` RL	YSIGHT +>- PASS	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	ver (RMS 1 2 3 4 5 6 M WWWWW A N N N N N	Center Frequency 427.000000 MHz	Settings
1 Sp	ectrum	•				М	lkr1 30.85 MH	Span 794.000000 MHz	
Scal Log	e/Div 10 d	B		Ref Level 20.0	0 dBm		-53.98 dBn	Swept Span Zero Span	
10.0		1 Pass						Full Span	
0.00								Start Freq	-
-10.0)							30.000000 MHz	
-20.0								Stop Freq 824.000000 MHz	
-30.0								AUTO TUNE	
-40.0								CF Step 79 400000 MHz	
-50.0	1						e a Urana Michael Mara	Auto	
-60.0) Ling Directory into Stationary and interest	ang pana tang manakanan	n heijip herinti yi pinlan ti birti yi konsi kuhi 19 januh tinun ayan musika fatiklamika titi					Freq Offset	
-70.0								0 Hz	
Star #Res	t 30.0 MHz s BW 100 F	۲		#Video BW 30	0 kHz	Sweep	Stop 824.0 MH 38.1 ms (15881 pts	X Axis Scale Log Lin	
E	5		? Nov 01, 2024 8:39:53 AM					Signal Track (Span Zoom)	

Plot 7-64. Conducted Spurious Plot (GPRS Ch. 128 - Ant2)

Spec Swep	rum Analy t SA	zer 1	+								Ö	Frequency	- * ※
KEY RL	'SIGHT ↔ PASS	Input: RF Coupling: DC Align: Auto	Input Z: Corr CC Freq Re NFE: O	50 Ω corr ef: Int (S) ff	Atten: 30 dB	PNO: Gate: IF Gai Sig Tr	Fast Off in: Low ack: Off	#Avg Type: F Trig: Free Ru	Power (RMS in #	L 2 3 4 5 6 1	Cente 924.	er Frequency 500000 MHz	Settings
1 Spe Scale	ectrum e/Div 10 dl	T			Ref Level 20	.00 dBm		N	1kr1 998 -56	3.25 MHz .96 dBm	Span 151.0	000000 MHz	
Log	Trace	1 Pass				Í					Z	Zero Span	
0.00											Start	Full Span Freq	
-10.0											849.0 Stop	000000 MHz Freq	
-20.0											1.00	0000000 GHz	
-40.0											CF SI		
-50.0	andrewske II. sta		والمتعادية	م مانيم ، اين	ration discount states	ar, atstaar, alle		la arak nastron	a a sta attada	- 10 km - 10 km	13. IN	Auto Man	
-70.0		Andrea Alexander and an		A brack brack (or		and a submittee by	al an an Alaman Sha	ale de la company de la com La company de la company de	and an all the second secon		Freq 0 Hz	Offset	
Start #Res	0.84900 G BW 100 k	iHz Hz			#Video BW 3	300 kHz		Sw	Stop 1 reep 7.25 m	l.00000 GHz s (3021 pts	X Axis I I	s Scale ₋og _in	
	5		? Nov 0 8:39:	1, 2024 58 AM	$\supset \triangle$						Signa (Span	I Track Zoom)	

Plot 7-65. Conducted Spurious Plot (GPRS Ch. 128 - Ant2)

FCC ID: A3LSMS938B		Approved by: Technical Manager		
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Spec Swep	trum Analy et SA	rzer 1 🔻	+								\$	Frequency	- 湯
KEY RL	′SIGHT ↔ PASS	Input: RF Coupling: DC Align: Auto	Input Z: Corr CC Freq Re NFE: Of	50 Ω orr f: Int (S) ff	Atten: 40 dB	PNO: F Gate: 0 IF Gair Sig Tra	Fast Off n: Low ack: Off	#Avg Type: P Trig: Free Ru	rower (RMS in 4	23456 1 *****	Center F 5.50000	requency 0000 GHz	Settings
1 Spe	ectrum	•						М	kr1 4.79	93 0 GHz	9.00000	000 GHz	
Scale	e/Div 10 d				Ref Level 30.	00 dBm			-29	.04 dBm	Swe Zero	pt Span Span	
20.0		1 8455									FL	ıll Span	
10.0											Start Fre	q	
0.00											1.00000	0000 GHz	
-10.0											Stop Fre 10.0000	q 00000 GHz	
-20.0					<u> </u>						AUT		
-30.0		. ta k		a start a start of		and an the star		Tele Sections	and the state of the second	an sayan na san	CF Step		
-40.0	Appendiate and Appendiate and a	Property in the sector					Manual Addition			and an and provide	900.000	DOD MHZ	
-50.0											Mar Erog Off	pot	
-60.0											0 Hz		
Start #Res	1.000 GH BW 1.0 N	z IHz			#Video BW 3	3.0 MHz		Swee	Stop p ~16.7 ms	10.000 GH; (18001 pts	X Axis So Log Lin	cale	
	5		? Nov 0 8:40:	1, 2024 30 AM	\Box						Signal Tr (Span Zoo	ack om)	

Plot 7-66. Conducted Spurious Plot (GPRS Ch. 128 - Ant2)

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