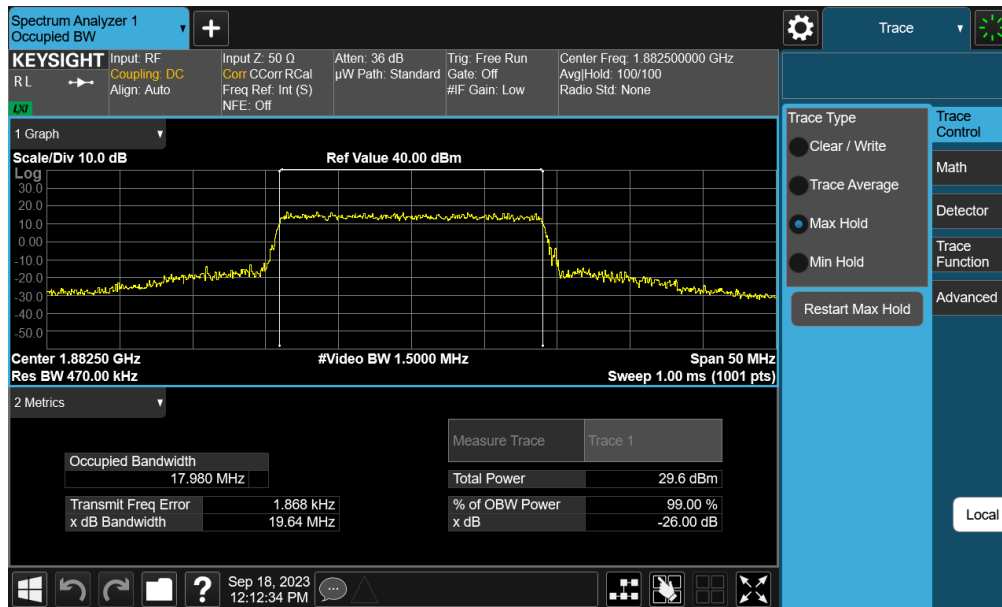
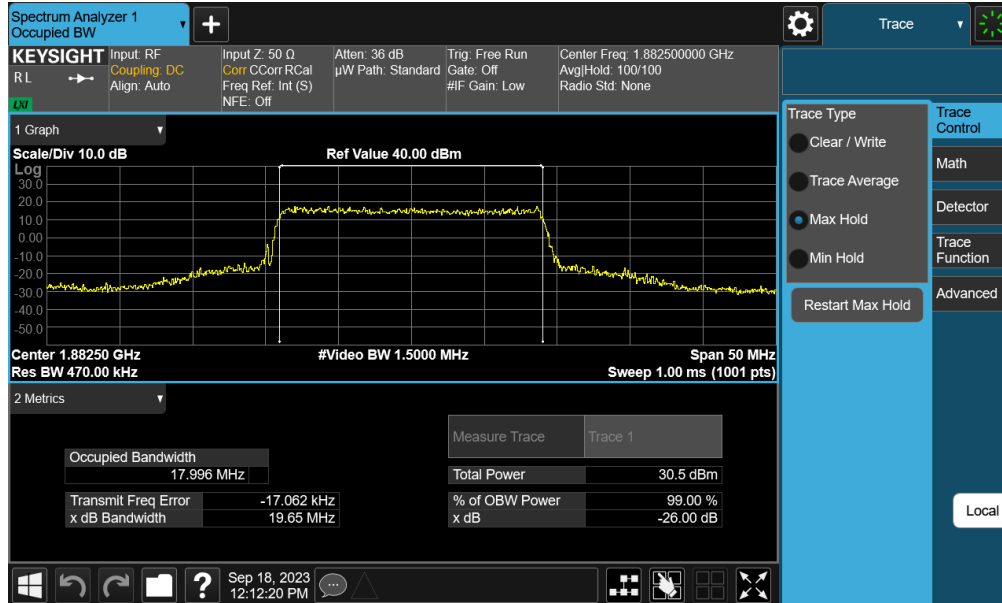


Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B25-2	20 MHz	QPSK	18.00
		16QAM	17.98
	15 MHz	QPSK	13.55
		16QAM	13.52
	10 MHz	QPSK	9.03
		16QAM	9.03
	5 MHz	QPSK	4.53
		16QAM	4.53
	3 MHz	QPSK	2.72
		16QAM	2.72
	1.4 MHz	QPSK	1.09
		16QAM	1.12
NR-n25-2	40 MHz	$\pi/2$ BPSK	38.80
		QPSK	38.74
		16QAM	38.80
	35 MHz	$\pi/2$ BPSK	32.60
		QPSK	33.90
		16QAM	33.90
	30 MHz	$\pi/2$ BPSK	28.79
		QPSK	28.83
		16QAM	28.84
	25 MHz	$\pi/2$ BPSK	23.03
		QPSK	23.92
		16QAM	23.95
	20 MHz	$\pi/2$ BPSK	17.96
		QPSK	19.06
		16QAM	19.04
	15 MHz	$\pi/2$ BPSK	13.45
		QPSK	14.21
		16QAM	14.23
	10 MHz	$\pi/2$ BPSK	9.01
		QPSK	9.35
		16QAM	9.38
	5 MHz	$\pi/2$ BPSK	4.50
		QPSK	4.52
		16QAM	4.50

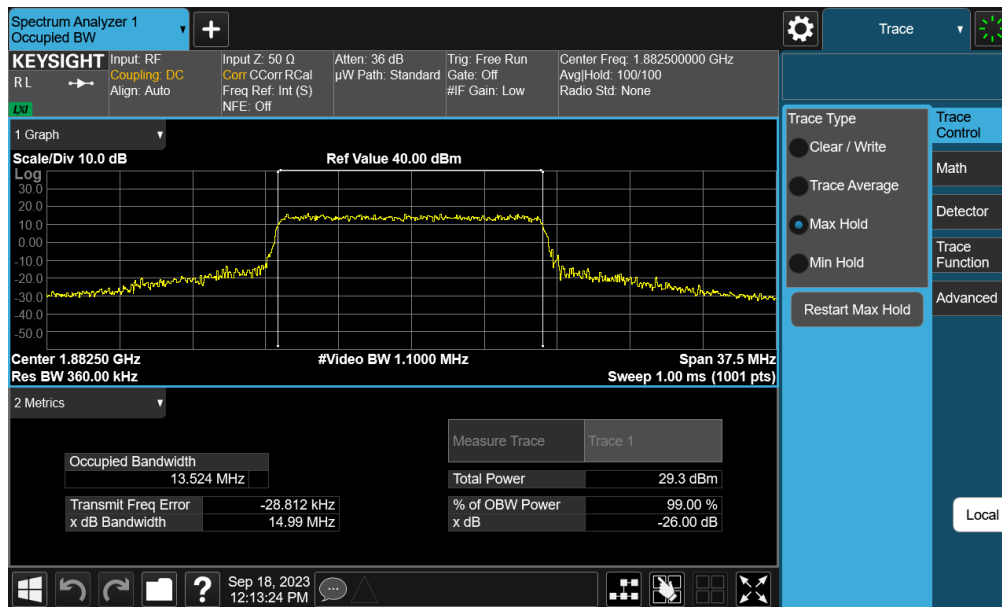
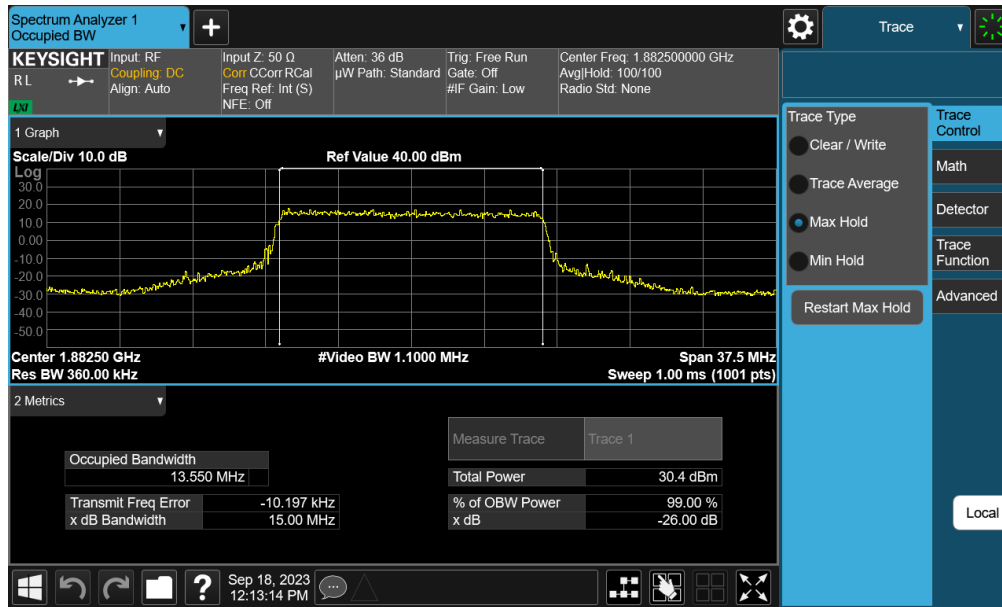
Table 7-5. Occupied Bandwidth Test Results – Ant F

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 37 of 130

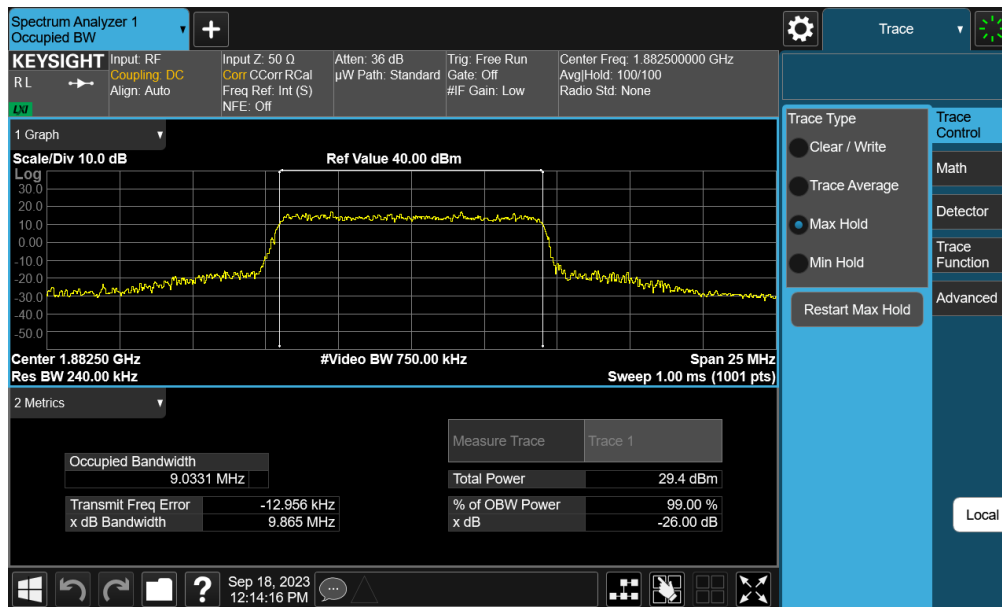
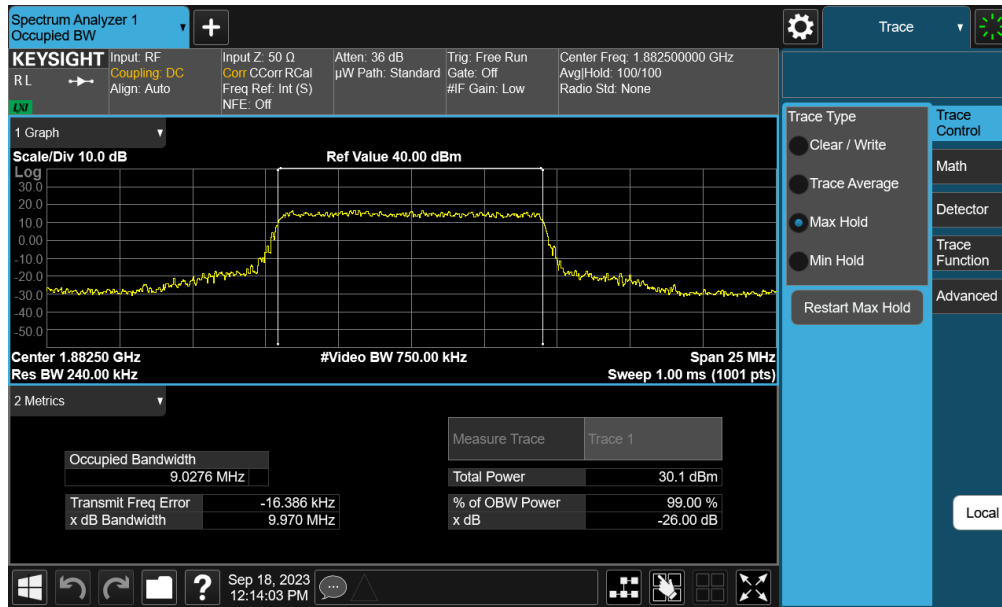
LTE Band 25/2 – Ant F



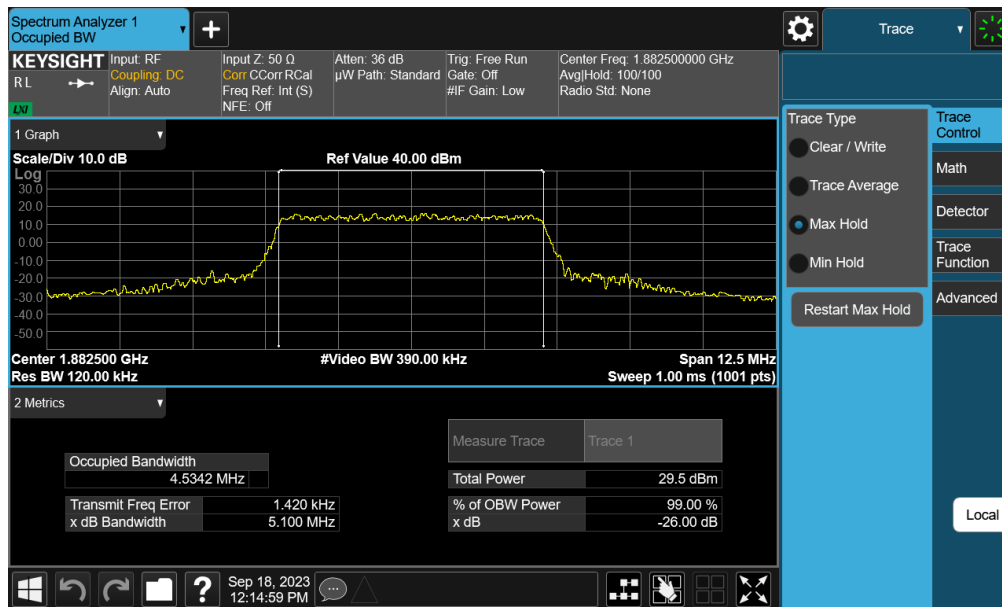
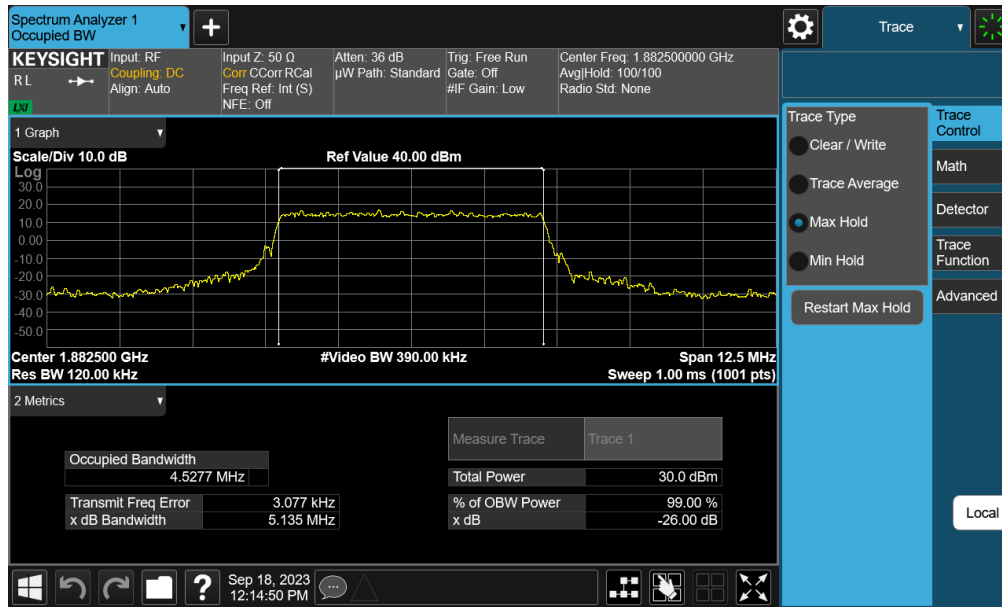
FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 38 of 130



FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 39 of 130



FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 40 of 130

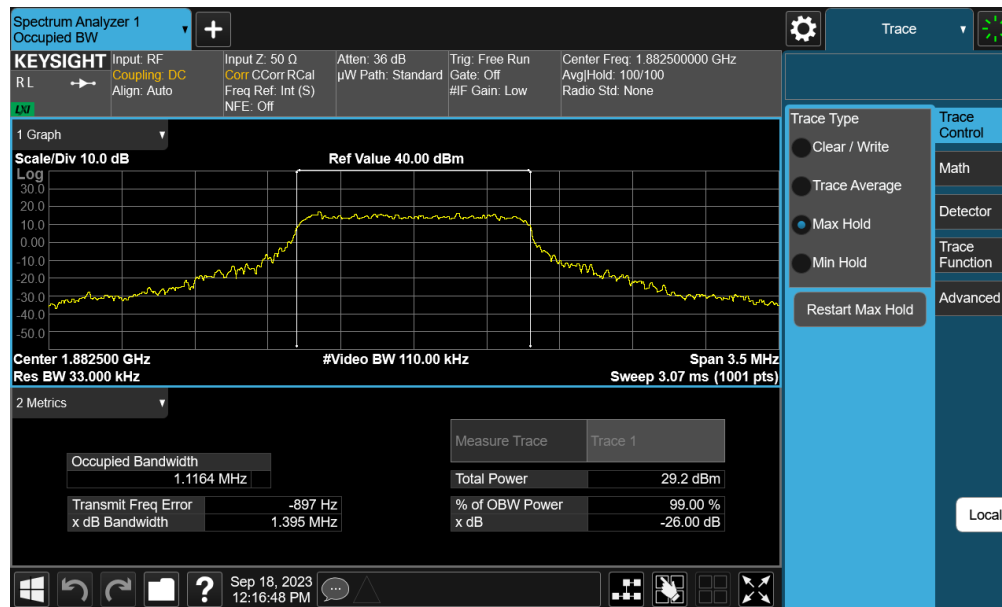


FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 41 of 130



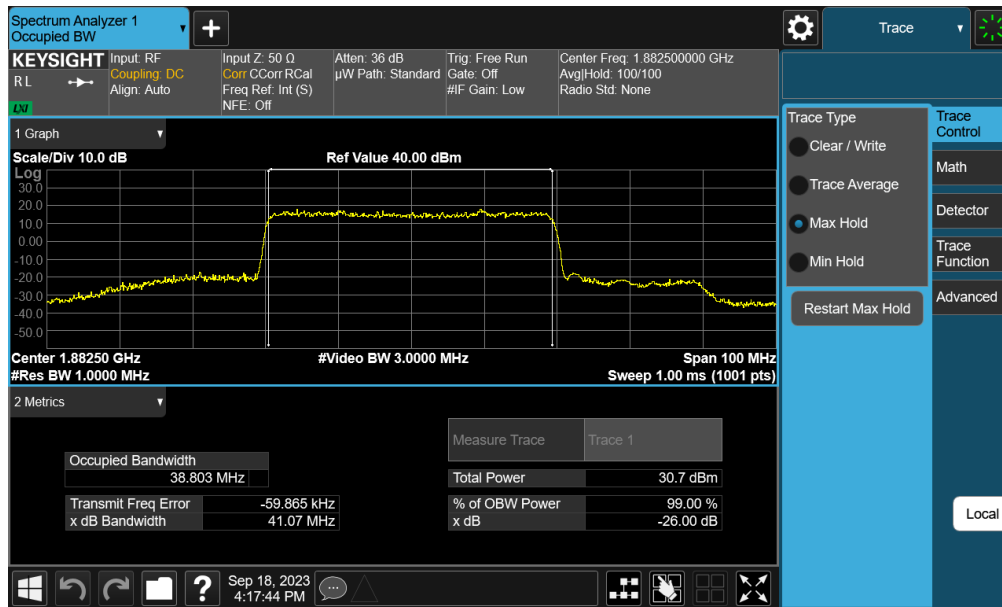
© 2023 ELEMENT V11.0 9/14/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions about this or have an inquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

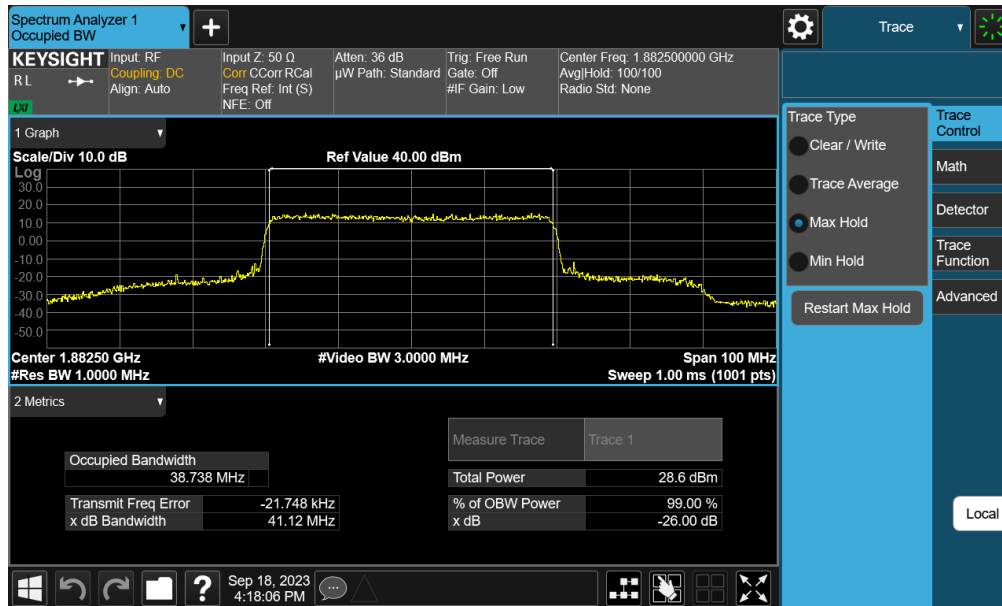


FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 43 of 130

NR Band n25/2 – Ant F

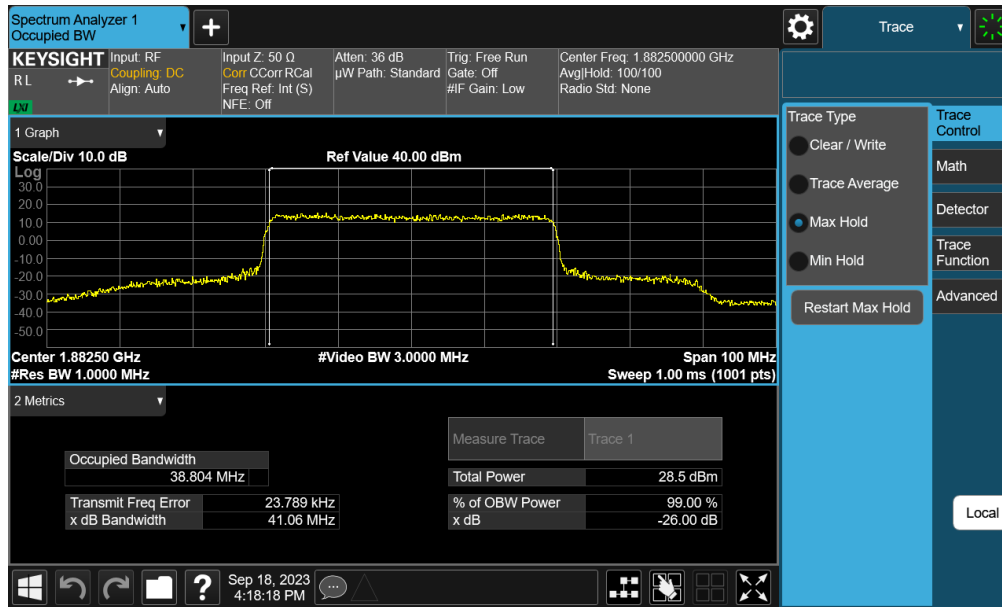


Plot 7-52. Occupied Bandwidth Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)



Plot 7-53. Occupied Bandwidth Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 44 of 130

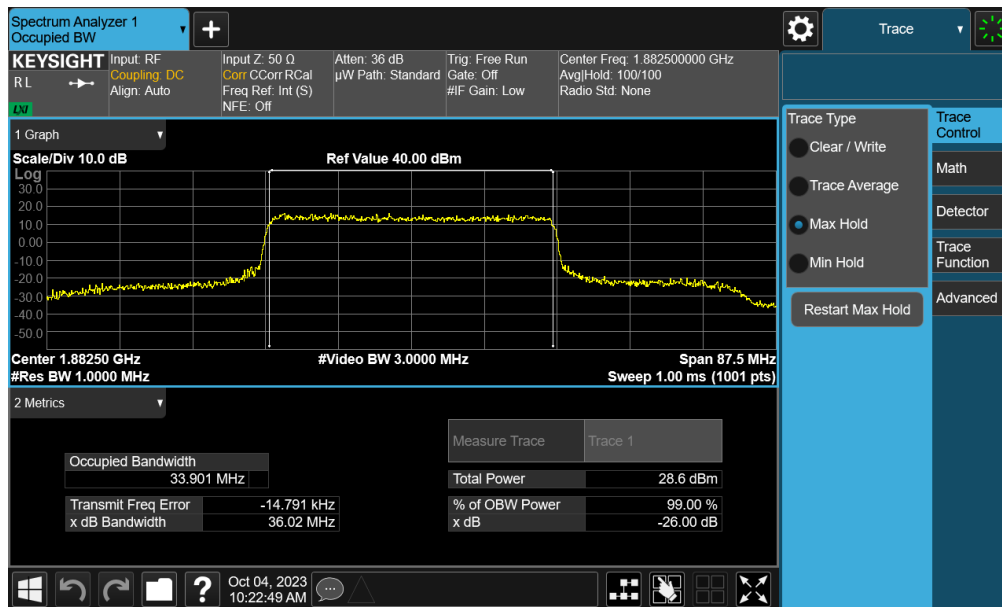
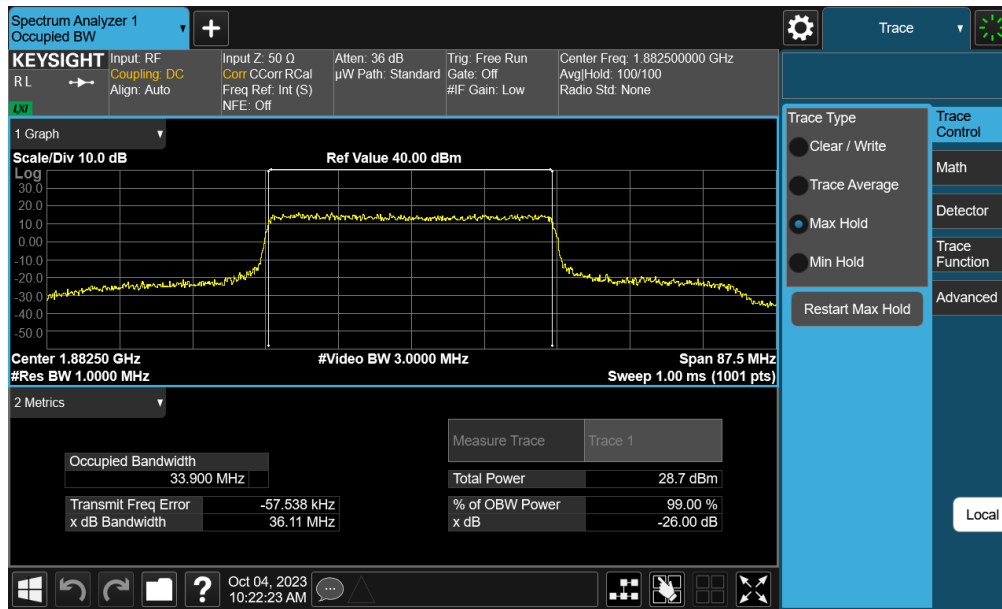


Plot 7-54. Occupied Bandwidth Plot (NR Band n25/2 - 40.0MHz CP-OFDM 16QAM - Full RB - ANT F)

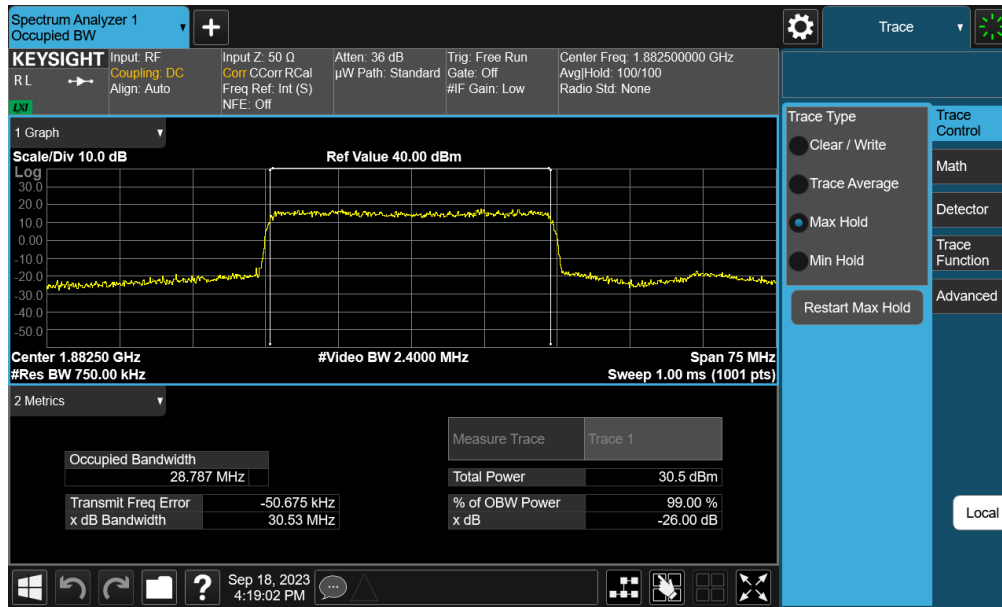


Plot 7-55. Occupied Bandwidth Plot (NR Band n25/2 - 35.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

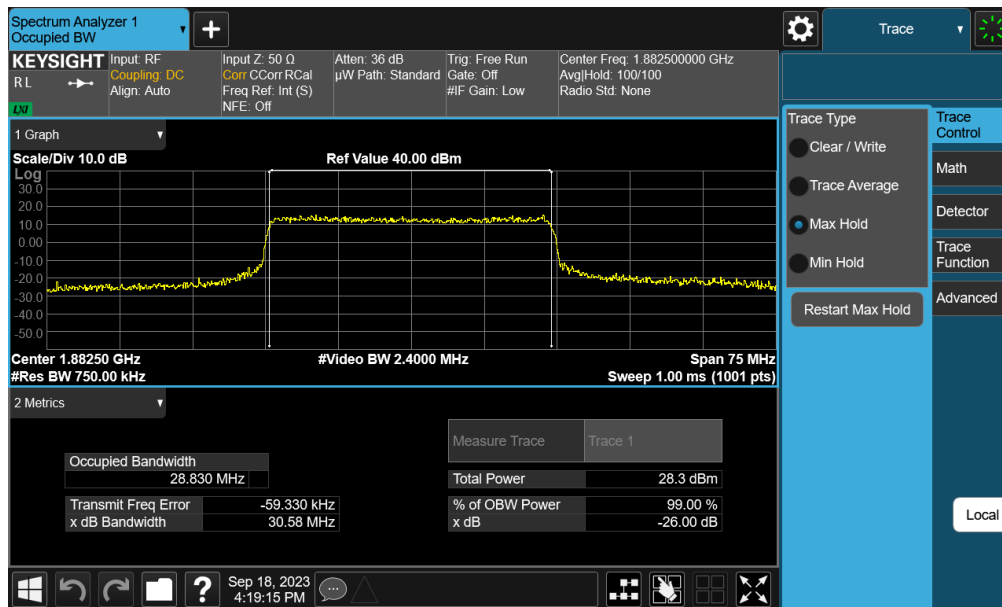
FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 45 of 130



FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 46 of 130

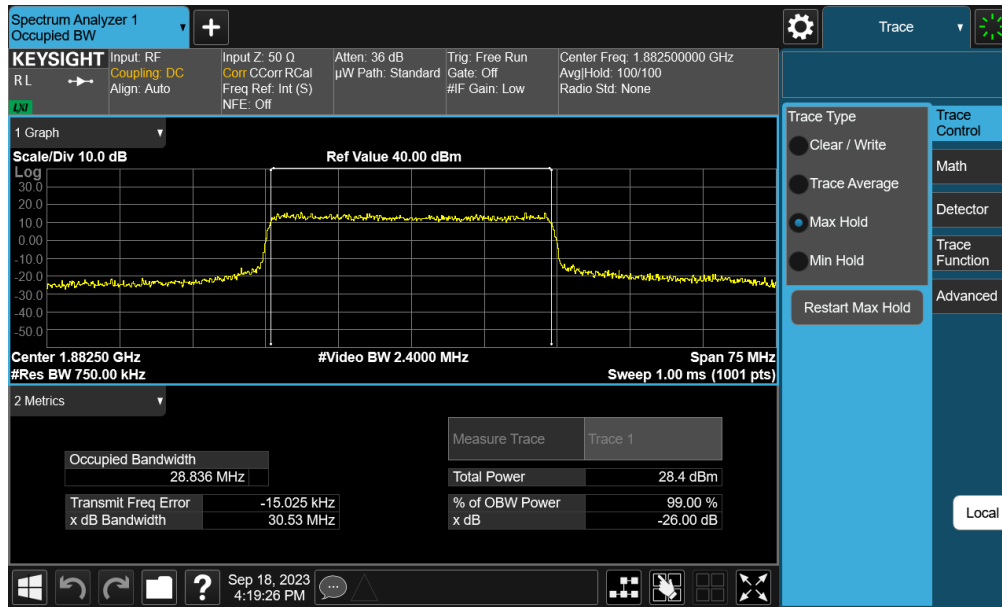


Plot 7-58. Occupied Bandwidth Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

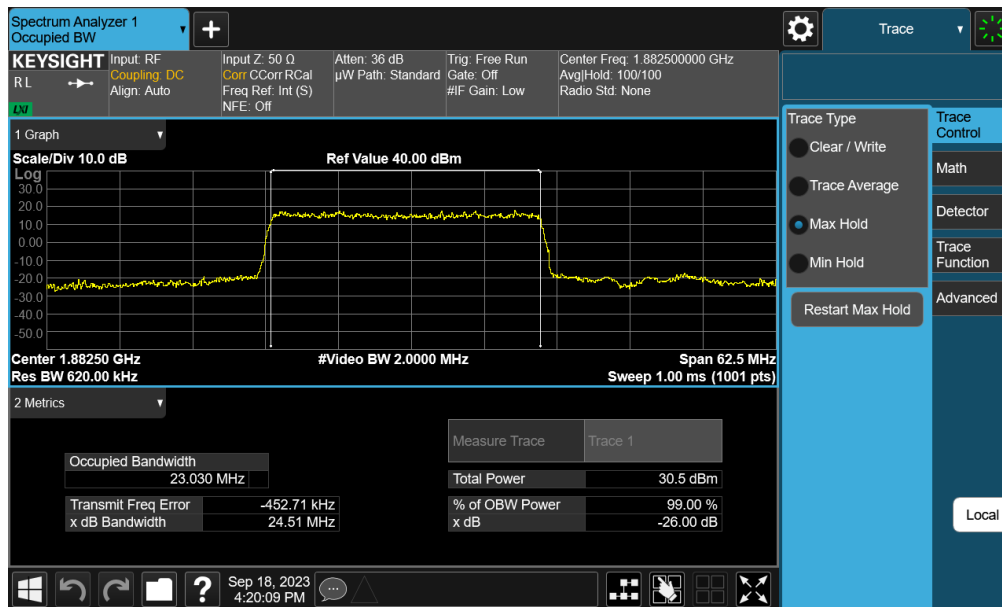


Plot 7-59. Occupied Bandwidth Plot (NR Band n25/2 - 30.0MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 47 of 130

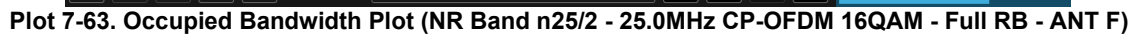
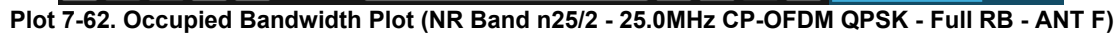


Plot 7-60. Occupied Bandwidth Plot (NR Band n25/2 - 30.0MHz CP-OFDM 16QAM - Full RB - ANT F)



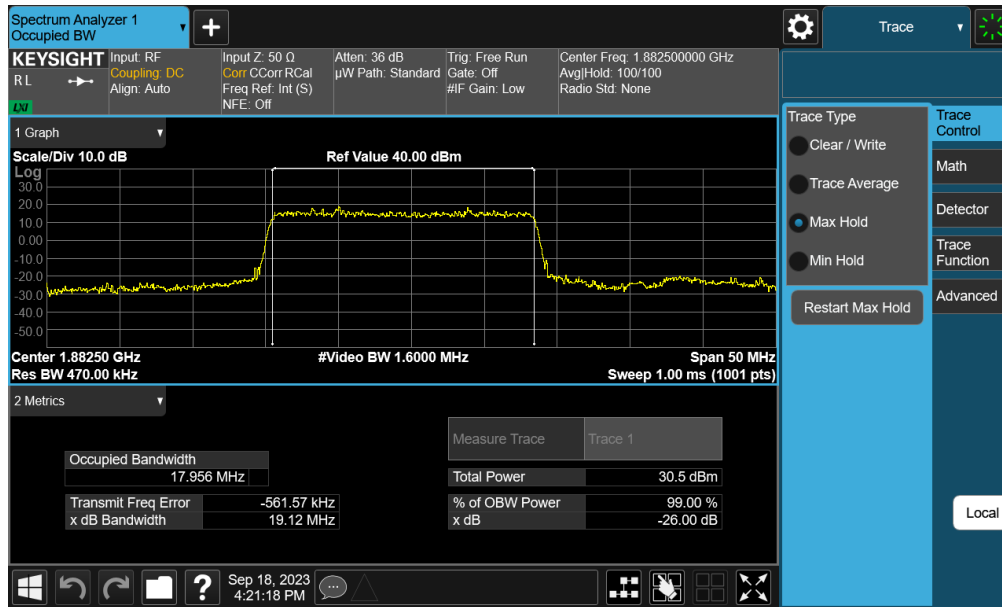
Plot 7-61. Occupied Bandwidth Plot (NR Band n25/2 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 48 of 130

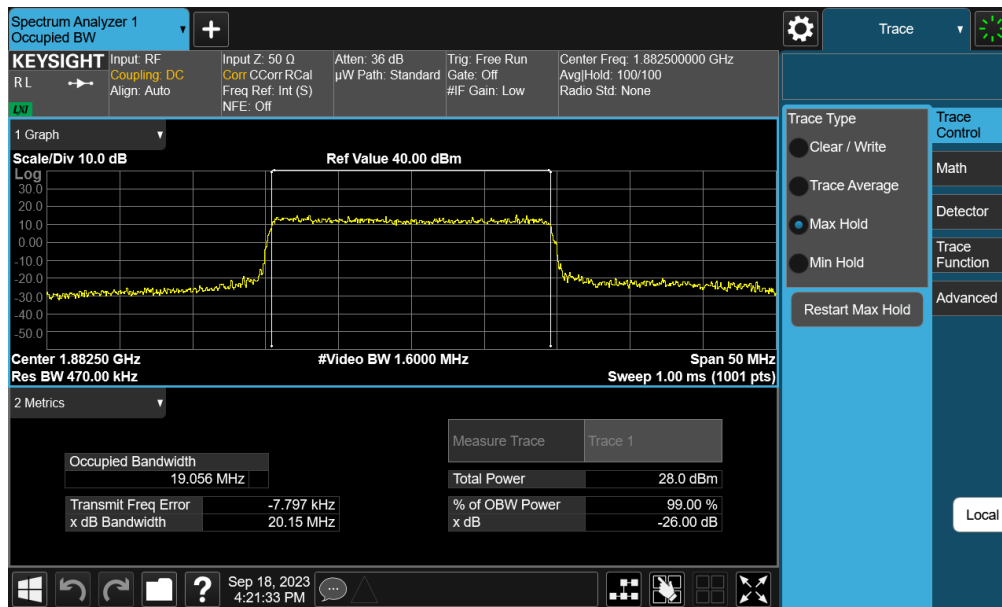


© 2023 ELEMENT V11.0 9/14/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions about this or have an inquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

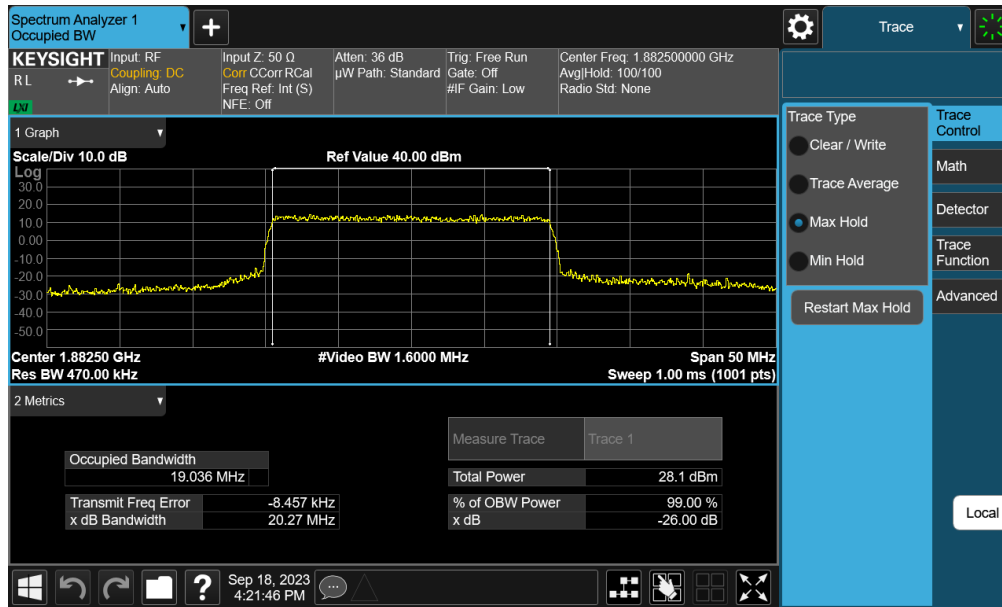


Plot 7-64. Occupied Bandwidth Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

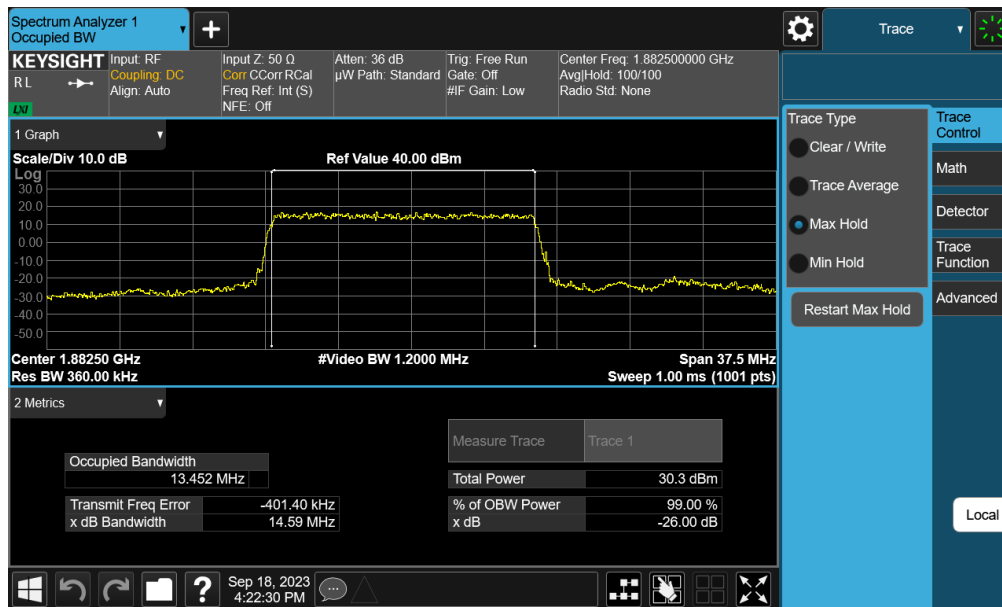


Plot 7-65. Occupied Bandwidth Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 50 of 130

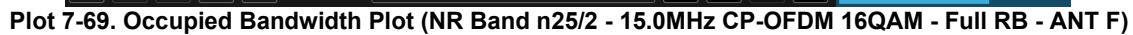
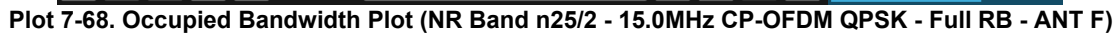


Plot 7-66. Occupied Bandwidth Plot (NR Band n25/2 - 20.0MHz CP-OFDM 16QAM - Full RB - ANT F)



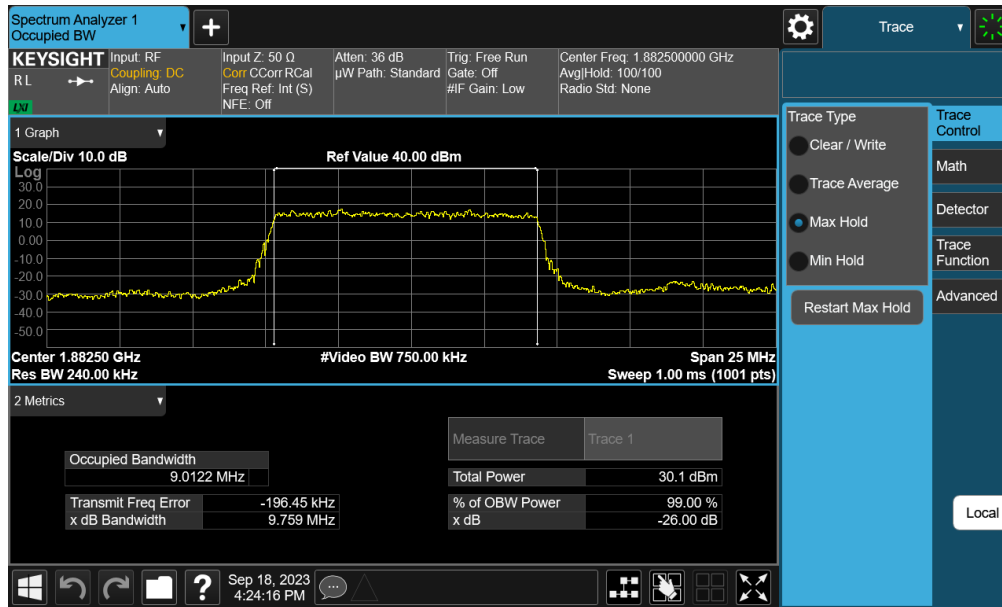
Plot 7-67. Occupied Bandwidth Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 51 of 130

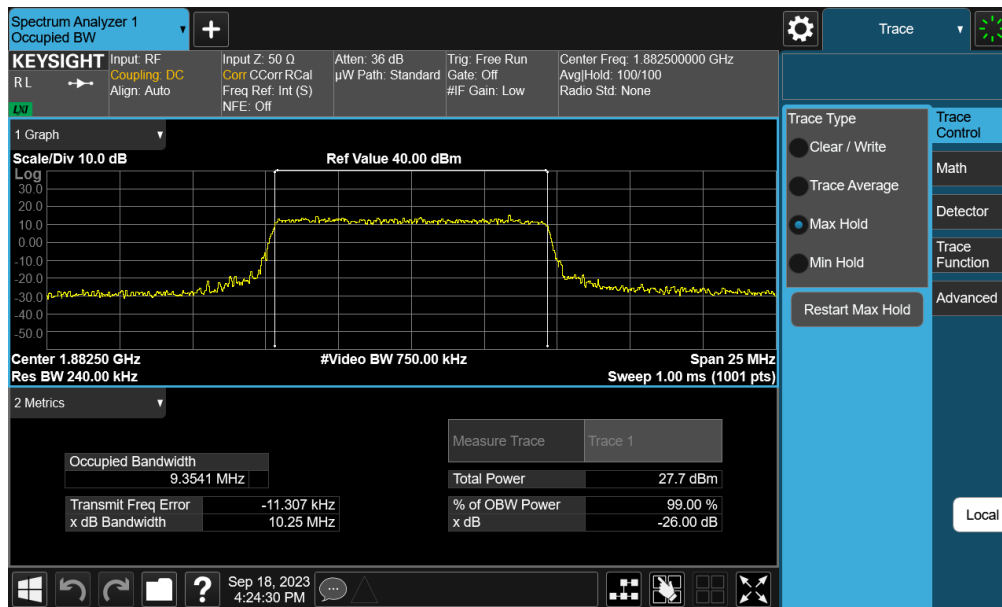


© 2023 ELEMENT V11.0 9/14/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions about this or have an inquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

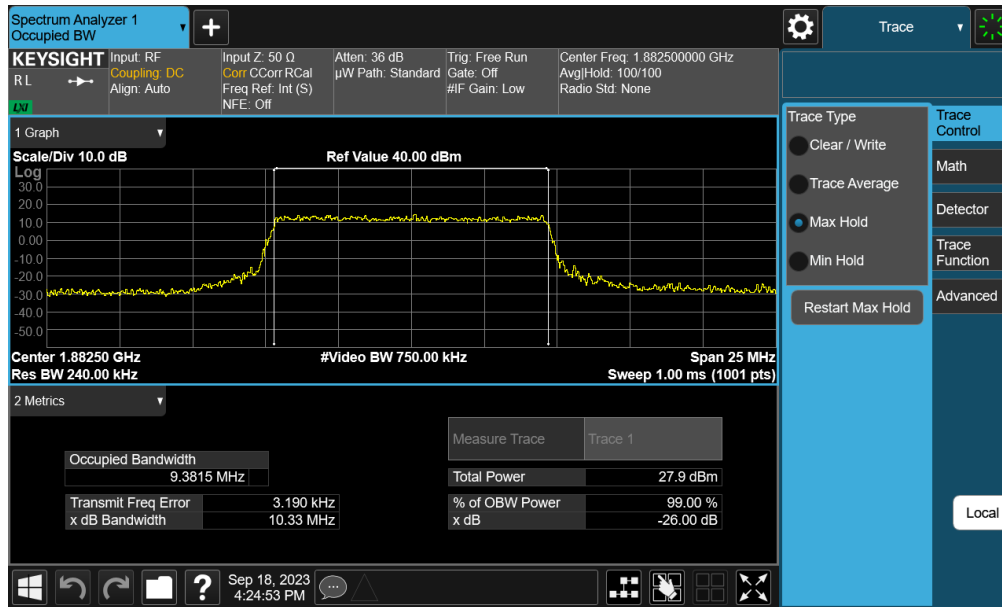


Plot 7-70. Occupied Bandwidth Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

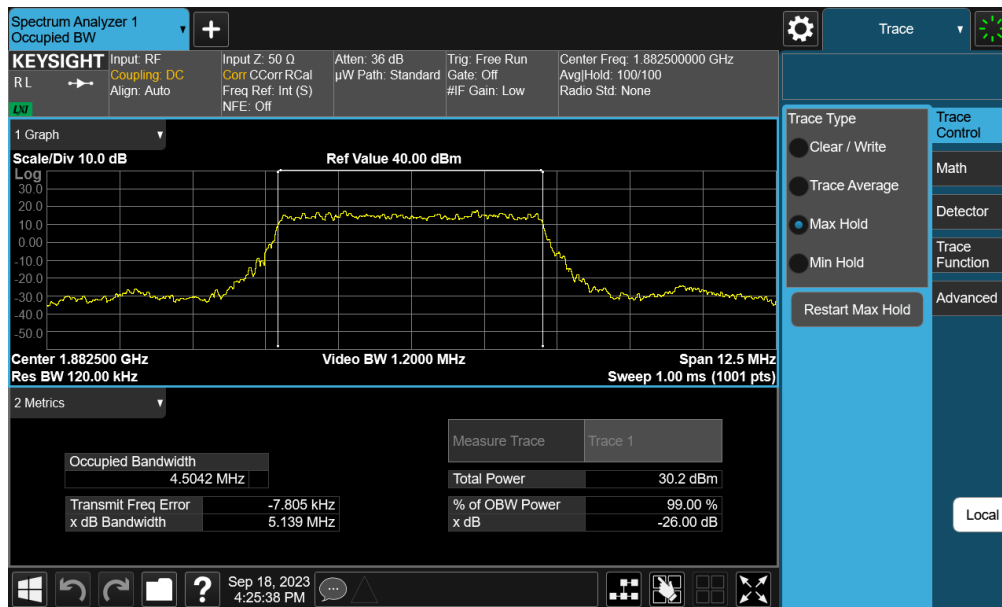


Plot 7-71. Occupied Bandwidth Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 53 of 130

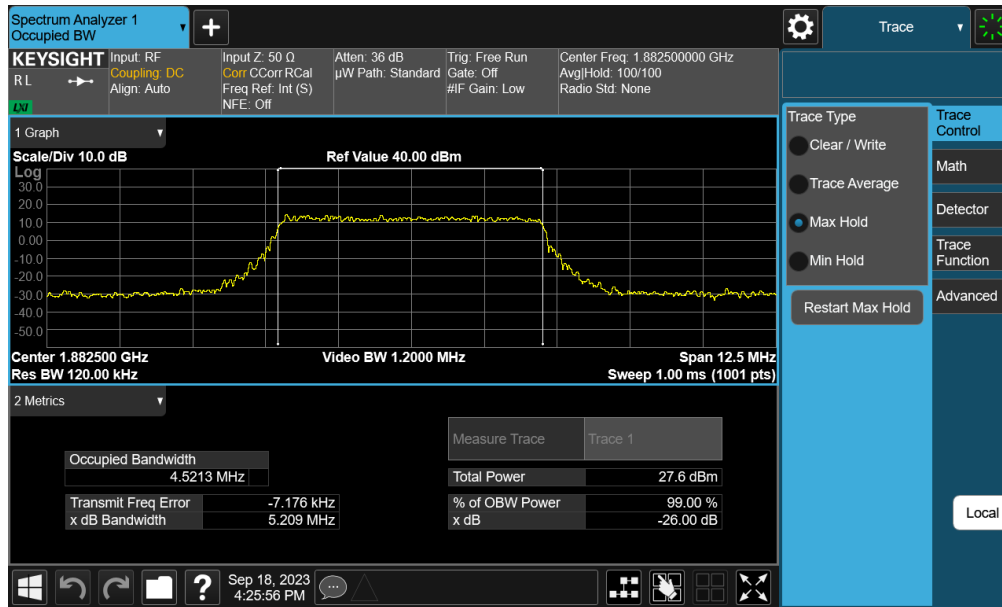


Plot 7-72. Occupied Bandwidth Plot (NR Band n25/2 - 10.0MHz CP-OFDM 16QAM - Full RB - ANT F)

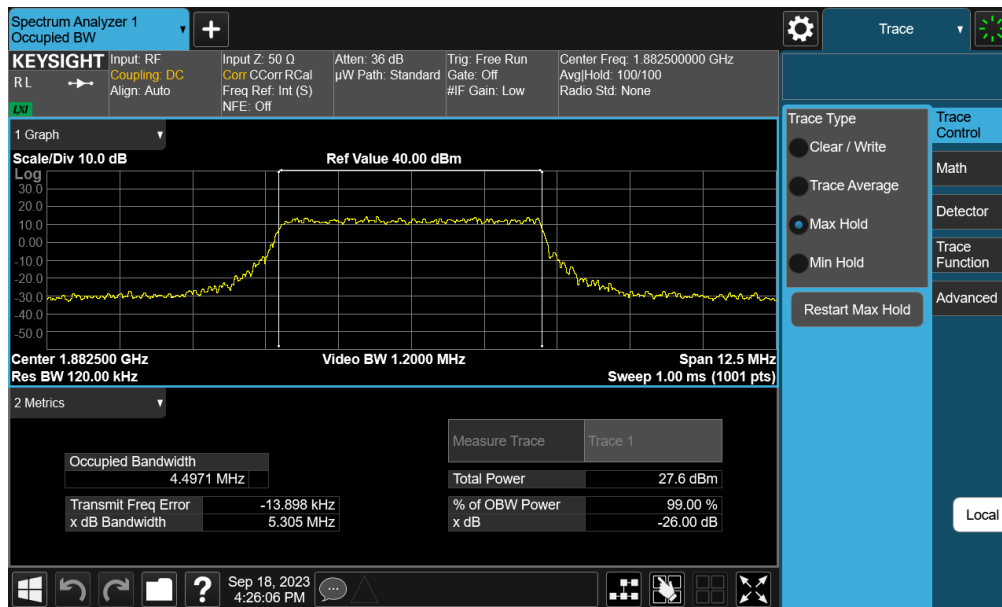


Plot 7-73. Occupied Bandwidth Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 54 of 130



Plot 7-74. Occupied Bandwidth Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT F)



Plot 7-75. Occupied Bandwidth Plot (NR Band n25/2 - 5.0MHz CP-OFDM 16QAM - Full RB - ANT F)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 55 of 130

7.4 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 $43 + 10 \log_{10}(P_{\text{Watts}})$, 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 20GHz (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.

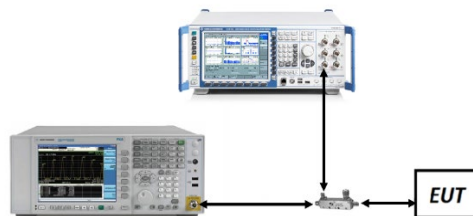


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 24 and RSS-133, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
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.

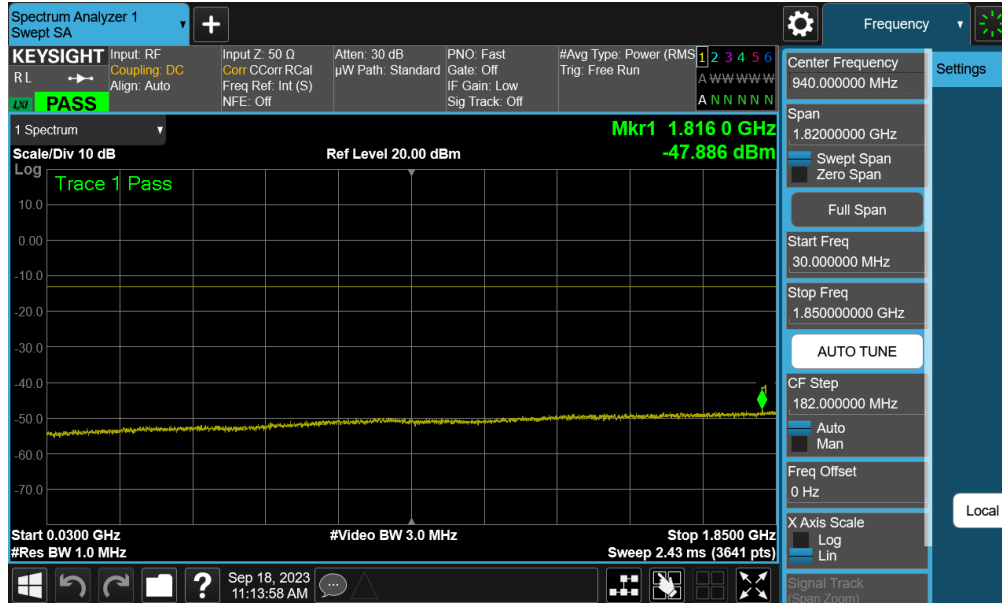
FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 56 of 130

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-PCS	250 kHz	Low	30.0 - 1845.0	-39.54	-13	-26.54
		Low	1910.0 - 10000.0	-32.00	-13	-19.00
		Low	10000.0 - 20000.0	-45.21	-13	-32.21
		Mid	30.0 - 1850.0	-38.26	-13	-25.26
		Mid	1910.0 - 10000.0	-32.04	-13	-19.04
		Mid	10000.0 - 20000.0	-45.79	-13	-32.79
		High	30.0 - 1850.0	-38.98	-13	-25.98
		High	1915.0 - 10000.0	-31.94	-13	-18.94
		High	10000.0 - 20000.0	-45.73	-13	-32.73
WCDMA-PCS	5 MHz	Low	30.0 - 1845.0	-36.76	-13	-23.76
		Low	1910.0 - 10000.0	-39.90	-13	-26.90
		Low	10000.0 - 20000.0	-53.32	-13	-40.32
		Mid	30.0 - 1850.0	-48.14	-13	-35.13
		Mid	1910.0 - 10000.0	-39.81	-13	-26.81
		Mid	10000.0 - 20000.0	-53.45	-13	-40.45
		High	30.0 - 1850.0	-47.82	-13	-34.82
		High	1915.0 - 10000.0	-39.40	-13	-26.40
		High	10000.0 - 20000.0	-53.16	-13	-40.16
LTE-B25-2	20 MHz	Low	30.0 - 1849.0	-47.08	-13	-34.08
		Low	1915.0 - 10000.0	-39.60	-13	-26.60
		Low	10000.0 - 20000.0	-52.90	-13	-39.90
		Mid	30.0 - 1850.0	-47.89	-13	-34.89
		Mid	1915.0 - 10000.0	-39.56	-13	-26.56
		Mid	10000.0 - 20000.0	-52.86	-13	-39.86
		High	30.0 - 1850.0	-47.88	-13	-34.88
		High	1916.0 - 10000.0	-39.14	-13	-26.14
		High	10000.0 - 20000.0	-52.83	-13	-39.83
NR-n25-2	40 MHz	Low	30.0 - 1850.0	-47.69	-13	-34.69
		Low	1915.0 - 10000.0	-39.61	-13	-26.61
		Low	10000.0 - 20000.0	-52.70	-13	-39.70
		Mid	30.0 - 1850.0	-47.82	-13	-34.81
		Mid	1915.0 - 10000.0	-39.38	-13	-26.38
		Mid	10000.0 - 20000.0	-52.92	-13	-39.92
		High	30.0 - 1850.0	-47.98	-13	-34.98
		High	1915.0 - 10000.0	-39.44	-13	-26.44
		High	10000.0 - 20000.0	-52.79	-13	-39.79

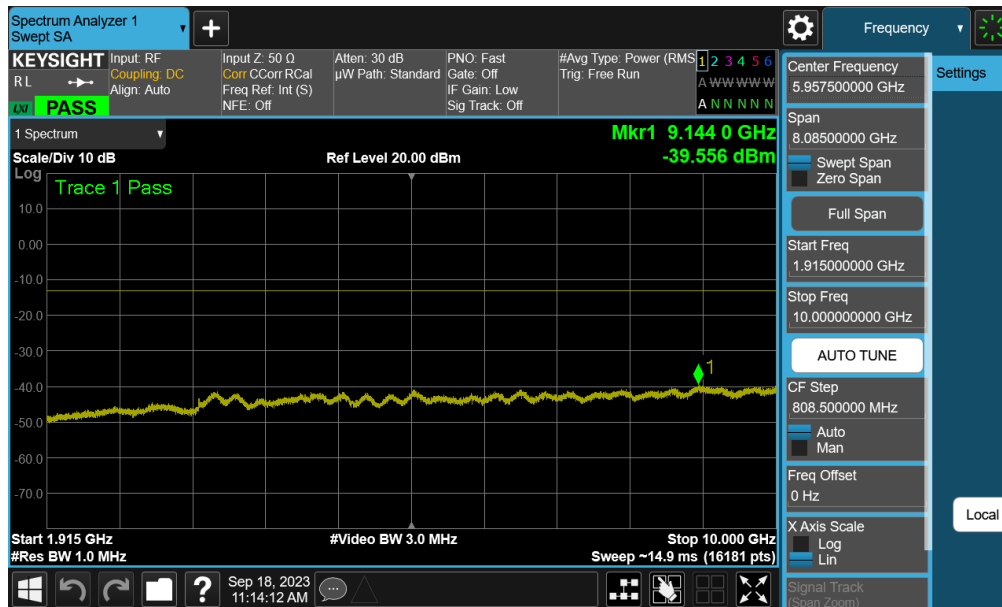
Table 7-6. Conducted Spurious Emission Results – Ant A

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 57 of 130

LTE Band 25/2 – Ant A

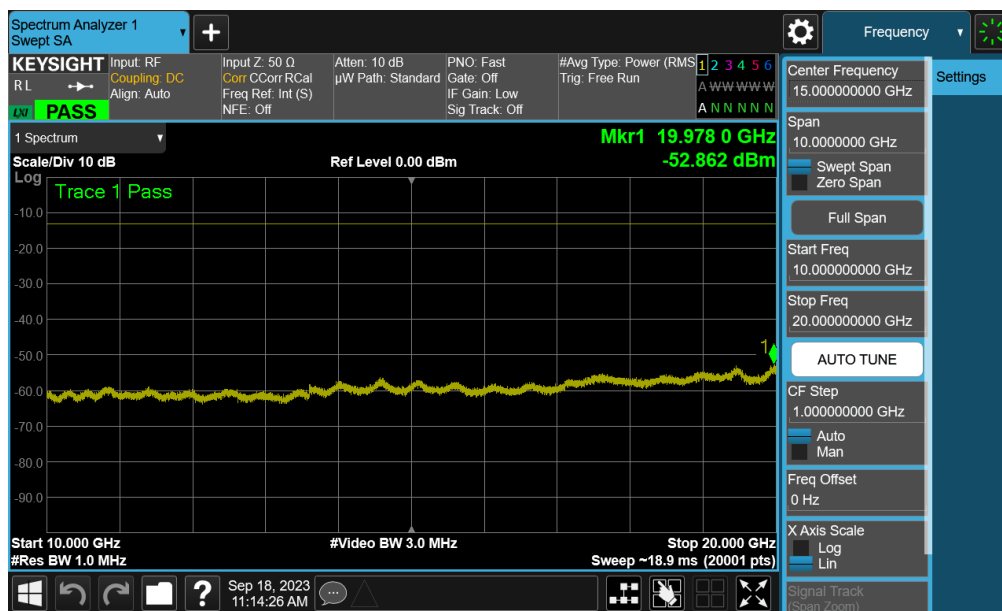


Plot 7-76. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - Mid Channel - Ant A)



Plot 7-77. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - Mid Channel - Ant A)

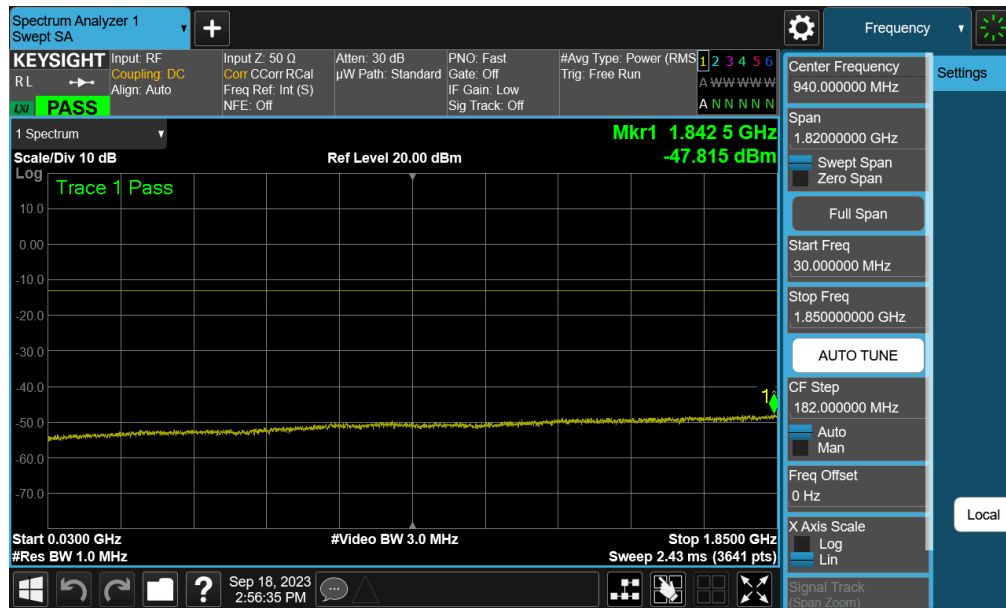
FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 58 of 130



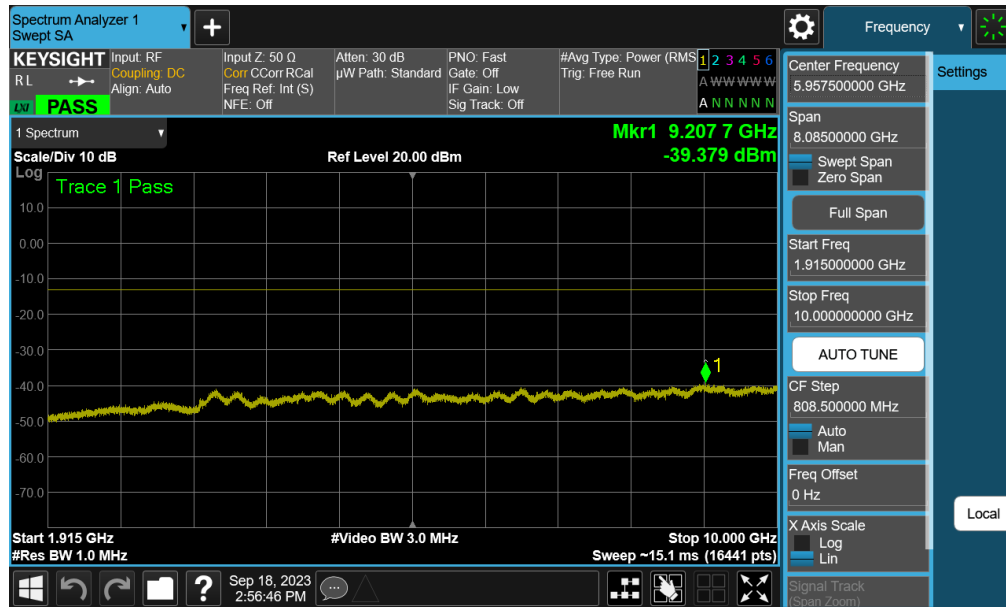
Plot 7-78. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - 1RB - Mid Channel - Ant A)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 59 of 130

NR Band n25/2 – Ant A

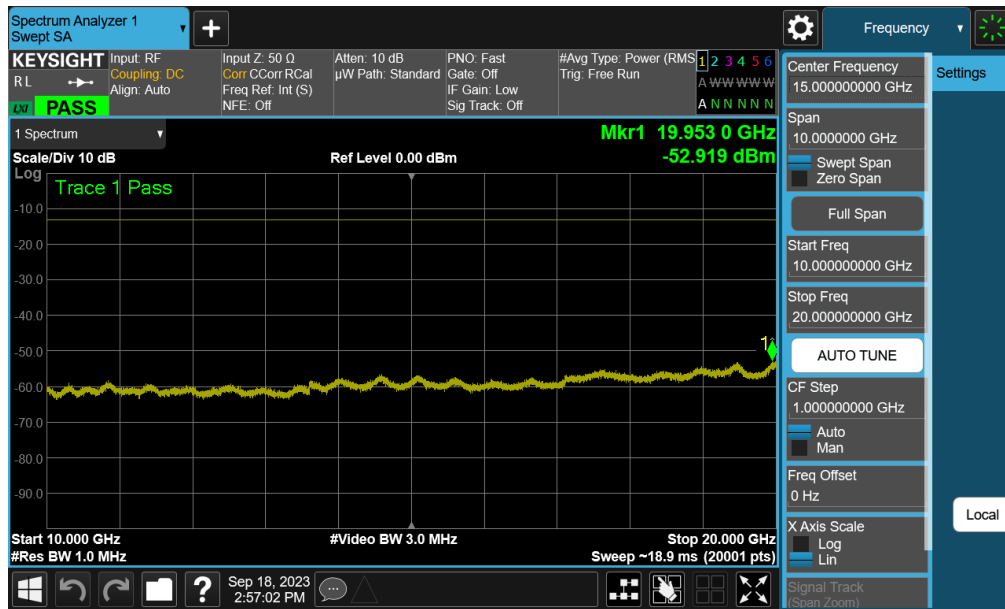


Plot 7-79. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant A)



Plot 7-80. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant A)

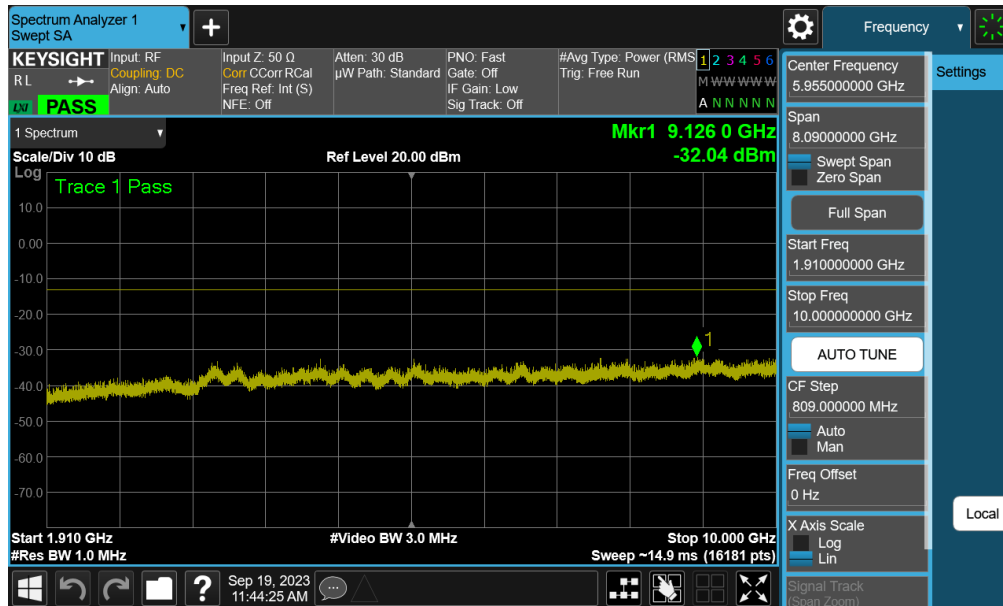
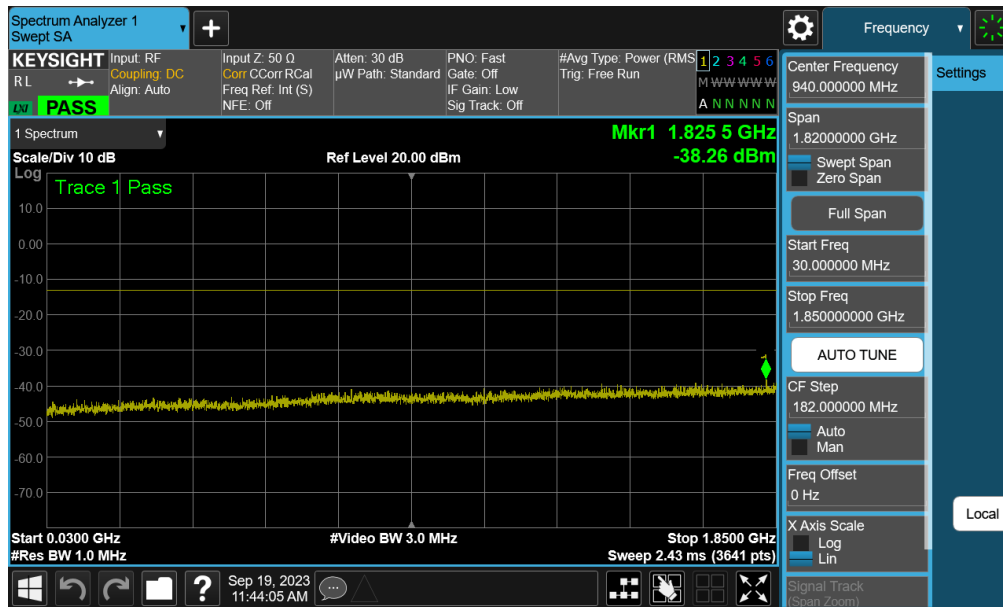
FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 60 of 130



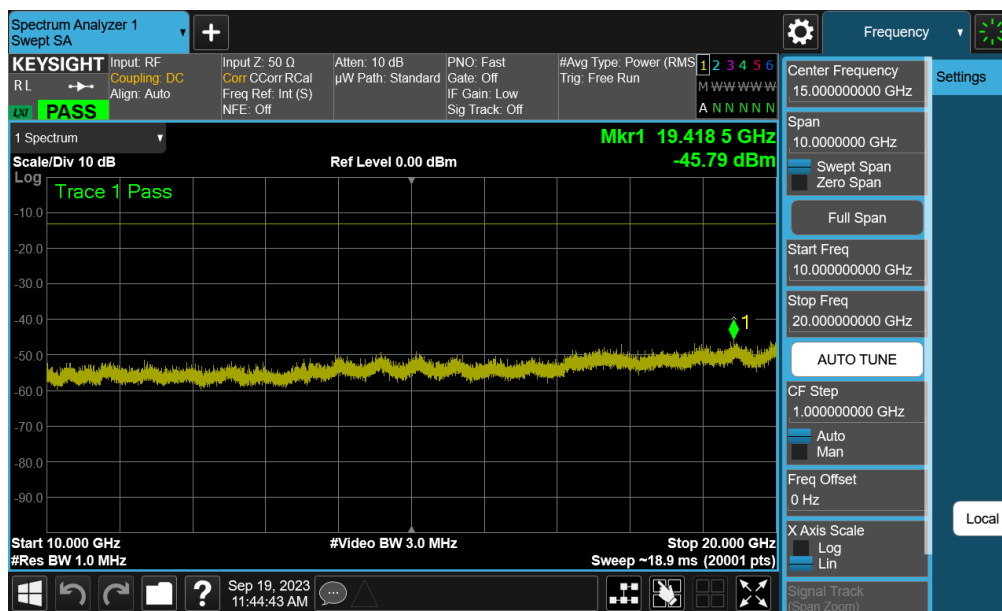
Plot 7-81. Conducted Spurious Plot (NR Band n25/2 - 40.0MHz - 1RB - Mid Channel - Ant A)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 61 of 130

GSM/GPRS PCS – Ant A



FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 62 of 130



Plot 7-84. Conducted Spurious Plot (GPRS Ch. 661 - Ant A)

FCC ID: A3LSMS928U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210092-03.A3L	Test Dates: 9/11/2023 - 10/11/2023	EUT Type: Portable Handset	Page 63 of 130