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PART 22 | RSS-132
MEASUREMENT REPORT

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

Date of Testing:
11/06/2025 - 11/28/2025
Test Report Issue Date:
1/6/2026
Test Site/Location:
Element Lab., Yongin-Si, Gyeonggi-do, South Korea
Test Report Serial No.:
1M2510280090-05-R2.A3L

FCC ID:	**A3LSMA576U**
IC:	**649E-SMA576W**
APPLICANT:	**Samsung Electronics Co., Ltd.**

Application Type:	Certification
Model:	SM-A576U1
HVIN:	SM-A576W
EUT Type:	Portable Handset
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part:	22
ISED Specifications:	RSS-132 Issue 4, RSS-Gen
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.

This revised Test Report (S/N: 1M2510280090-05-R2.A3L) supersedes and replaces the previously issued test report (S/N: 1M2510280090-05.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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.

Prepared by

Reviewed by

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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	12/26/2025	WKR0002421
1	Addressed comments made by TCB reviewer	1/2/2025	WKR0002421
2	Addressed additional comments made by TCB reviewer	1/6/2025	WKR0002421

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PART 22&RSS-132 MEASUREMENT REPORT

Antenna-A								
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	ERP		EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	
GSM/GPRS	N/A	GMSK	824.2 - 848.8	0.899	29.54	1.474	31.69	249KGXW
EDGE	N/A	8-PSK	824.2 - 848.8	0.140	21.47	0.230	23.62	245KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.132	21.20	0.216	23.35	4M16F9W
LTE Band 26/5	15MHz (Band 26 only)	QPSK	831.5 - 841.5	0.121	20.85	0.199	23.00	13M7G7D
		16QAM	831.5 - 841.5	0.093	19.70	0.153	21.85	13M6W7D
	10 MHz	QPSK	829.0 - 844.0	0.130	21.13	0.213	23.28	9M20G7D
		16QAM	829.0 - 844.0	0.098	19.91	0.161	22.06	9M14W7D
	5 MHz	QPSK	826.5 - 846.5	0.123	20.89	0.202	23.04	4M68G7D
		16QAM	826.5 - 846.5	0.096	19.81	0.157	21.96	4M63W7D
	3 MHz	QPSK	825.5 - 847.5	0.125	20.96	0.205	23.11	2M76G7D
		16QAM	825.5 - 847.5	0.094	19.72	0.154	21.87	2M75W7D
	1.4 MHz	QPSK	824.7 - 848.3	0.127	21.03	0.208	23.18	1M13G7D
		16QAM	824.7 - 848.3	0.096	19.80	0.157	21.95	1M13W7D
NR Band n5	20 MHz	π/2 BPSK	834.0 - 839.0	0.132	21.20	0.216	23.35	18M0G7D
		QPSK	834.0 - 839.0	0.134	21.28	0.220	23.43	19M1G7D
		16QAM	834.0 - 839.0	0.100	20.01	0.164	22.16	19M1W7D
	15 MHz	π/2 BPSK	831.5 - 841.5	0.141	21.49	0.231	23.64	13M5G7D
		QPSK	831.5 - 841.5	0.136	21.35	0.224	23.50	14M2G7D
		16QAM	831.5 - 841.5	0.110	20.43	0.181	22.58	14M2W7D
	10 MHz	π/2 BPSK	829.0 - 844.0	0.135	21.30	0.221	23.45	9M03G7D
		QPSK	829.0 - 844.0	0.131	21.18	0.215	23.33	9M41G7D
		16QAM	829.0 - 844.0	0.106	20.24	0.173	22.39	9M45W7D
	5 MHz	π/2 BPSK	826.5 - 846.5	0.134	21.28	0.220	23.43	4M53G7D
		QPSK	826.5 - 846.5	0.134	21.27	0.220	23.42	4M63G7D
		16QAM	826.5 - 846.5	0.105	20.23	0.173	22.38	4M63W7D

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Antenna-E								
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	ERP		EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	
GSM/GPRS	N/A	GMSK	824.2 - 848.8	0.734	28.66	1.204	30.81	250KGXW
EDGE	N/A	8-PSK	824.2 - 848.8	0.097	19.85	0.158	22.00	245KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.105	20.22	0.172	22.37	4M17F9W
LTE Band 26/5	15MHz (Band 26 only)	QPSK	831.5 - 841.5	0.109	20.38	0.179	22.53	13M5G7D
		16QAM	831.5 - 841.5	0.088	19.46	0.145	21.61	13M5W7D
	10 MHz	QPSK	829.0 - 844.0	0.104	20.18	0.171	22.33	9M10G7D
		16QAM	829.0 - 844.0	0.089	19.52	0.147	21.67	9M06W7D
	5 MHz	QPSK	826.5 - 846.5	0.104	20.18	0.171	22.33	4M60G7D
		16QAM	826.5 - 846.5	0.091	19.59	0.149	21.74	4M56W7D
	3 MHz	QPSK	825.5 - 847.5	0.101	20.03	0.165	22.18	2M72G7D
		16QAM	825.5 - 847.5	0.088	19.46	0.145	21.61	2M73W7D
	1.4 MHz	QPSK	824.7 - 848.3	0.105	20.21	0.172	22.36	1M11G7D
		16QAM	824.7 - 848.3	0.091	19.59	0.149	21.74	1M11W7D
	20 MHz	π/2 BPSK	834.0 - 839.0	0.124	20.94	0.203	23.09	18M0G7D
		QPSK	834.0 - 839.0	0.123	20.90	0.202	23.05	19M1G7D
		16QAM	834.0 - 839.0	0.096	19.81	0.157	21.96	19M0W7D
NR Band n5	15 MHz	π/2 BPSK	831.5 - 841.5	0.126	21.02	0.207	23.17	13M5G7D
		QPSK	831.5 - 841.5	0.128	21.07	0.210	23.22	14M2G7D
		16QAM	831.5 - 841.5	0.099	19.97	0.163	22.12	14M2W7D
	10 MHz	π/2 BPSK	829.0 - 844.0	0.126	20.99	0.206	23.14	9M01G7D
		QPSK	829.0 - 844.0	0.122	20.87	0.200	23.02	9M30G7D
		16QAM	829.0 - 844.0	0.095	19.79	0.156	21.94	9M40W7D
	5 MHz	π/2 BPSK	826.5 - 846.5	0.128	21.09	0.211	23.24	4M53G7D
		QPSK	826.5 - 846.5	0.130	21.13	0.213	23.28	4M53G7D
		16QAM	826.5 - 846.5	0.094	19.71	0.154	21.86	4M59W7D

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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 Materials Technology Suwon, Ltd. located in Yongin-si, Gyeonggi-do, 16954, South Korea.

- Element Materials Technology Suwon, Ltd. is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation(A2LA) with Certificate number 2041.04 for Specific Absorption Rate (SAR), and Electromagnetic Compatibility (EMC) & Telecommunications testing for FCC and Innovation, Science, and Economic Development Canada rules.

- Element Materials Technology Suwon, Ltd. facility is accredited, designated, and recognized in accordance with the provision of Radio Wave Act and International Standard ISO/IEC 17025:2017 under the National Radio Research Agency.

  - Designation Number / CABID: KR0169
  - Test Firm Registration Number of FCC: 417945
  - Test Firm Registration Number of ISED: 26168

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMA576U, IC:649E-SMA576W** 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 and RSS-132.

Test Device Serial No.: 0119M, 0551M, 3070M, 3119M, 2298M, 3123M, 0111M

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), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC

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.

Band	Ant1	Ant2
GSM/GPRS	Ant A	Ant E
WCDMA	Ant A	Ant E
LTE Band 26/5	Ant A	Ant E
NR Band n5	Ant A	Ant E

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version A576U1UEU0AYK8 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:

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

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 $P_{g\ [dBm]}$ – 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:

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

And

$$EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20\log D - 104.8;$$ where D 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 (±dB)
Conducted Bench Top Measurements	1.95
Radiated Disturbance (<1GHz)	4.10
Radiated Disturbance (>1GHz)	4.82
Radiated Disturbance (>18GHz)	4.96

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
Agilent	N9030A	PXA Signal Analyzer	2025-05-23	Annual	2026-05-22	MY49432391
Anritsu	S820E	Cable and Antenna Analyzer	2025-06-13	Annual	2026-06-12	1839097
Rohde & Schwarz	NRP-Z81	POWER SENSOR	2025-05-23	Annual	2026-05-22	101499
Anritsu	MT8000A	Radio Communicatino Test Station	2025-10-17	Annual	2026-10-16	6272337405
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	2024-10-10	Biennial	2026-10-09	10160045
Espec	SH-242	Environmental Chamber	2025-09-17	Annual	2026-09-16	93011064
Fairview Microwave	FM2CP1122-10	2.92mm Directional Coupler	2025-07-17	Annual	2026-07-16	1946
Keysight Technologies	N9030B	PXA Signal Analyzer	2025-07-07	Annual	2026-07-06	MY57143278
Mini-Circuits	BW-N10W5+	Attenuator	2025-07-03	Annual	2026-07-02	TEMPNO.01-151
Mini-Circuits	BW-N10W5+	Attenuator	2025-07-17	Annual	2026-07-16	TEMPNO.01-150
NARDA	180-442A-KF	Horn Antenna (small)	2025-01-13	Annual	2026-01-12	180-442A-KF
Rohde & Schwarz	SMF100A	Signal Generator	2025-07-03	Annual	2026-07-02	104154
Rohde & Schwarz	CMW500	Wideband Radio Communicatino Tester	2025-01-06	Annual	2026-01-05	171075
Rohde & Schwarz	FSW	Signal and Spectrum Analyzer	2025-09-15	Annual	2026-09-14	101955
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	2025-01-06	Annual	2026-01-05	103295
Schwarzbeck	VULB9162	Broadband TRILOG Antenna	2025-06-05	Biennial	2027-06-04	9162-217
Sunol	DRH-118	Horn Antenna	2025-06-04	Annual	2026-06-03	A102416-1

Table 5-1. Test Equipment Calibration Table

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
GSM BW = 250 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

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.
FCC ID: A3LSMA576U
IC: 649E-SMA576W
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
Mode(s): GSM/GPRS/WCDMA/LTE/NR

Test Condition	Test Description	FCC Part Section(s)	RSS Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power	2.1046(a), 2.1046(c)	RSS-Gen(6.12)	N/A	PASS	Section 7.2
	Occupied Bandwidth	2.1049(h)	RSS-Gen(6.7)	N/A	PASS	Section 7.3
	Conducted Band Edge / Spurious Emissions	2.1051, 22.917(a)	RSS-Gen(6.13), RSS-132(5.5)	≥ 43 + 10 log (P[Watts]) dB of attenuation below transmitter power	PASS	Sections 7.4, 7.5
	Peak-to-Average Ratio	N/A	RSS-132(5.4)	≤ 13 dB	PASS	Section 7.6
	Frequency Stability	2.1055, 22.355	RSS-Gen(6.11), RSS-132(5.3)	The carrier frequency of the transmitter must be maintained within the 2.5ppm	PASS	Section 7.9
RADIATED	Effective Radiated Power / Equivalent Isotropic Radiated Power	22.913(a)(5)	-	< 7 Watts max. ERP	PASS	Section 7.7
	Effective Radiated Power / Equivalent Isotropic Radiated Power	-	RSS-Gen(6.12), RSS-132(5.4)	< 3 Watts max. ERP	PASS	Section 7.7
	Radiated Spurious Emissions	2.1053, 22.917(a)	RSS-Gen(7.3), RSS-132(5.6)	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.8

* The only transmitter output conducted powers included in this report are those where the Pmax value, per the tune-up document, is higher than any of the DSI power levels. For the remaining conducted power measurements, see the **RF Exposure Report**.

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 Power Output Data

Test Overview

All emissions are measured with a spectrum analyzer 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

Test Settings

1. Detector = RMS
2. Trace mode = trace average for continuous emissions, max hold for pulse emissions
3. Sweep time = auto couple
4. The trace was allowed to stabilize
5. 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.

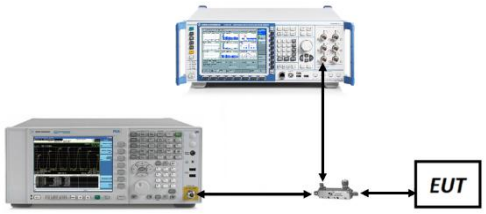

Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.

2. All other conducted power measurements are contained in the RF exposure report for this filing.

3. Conducted power was found to reduce for the higher order QAM modulations when compared to 16QAM. Due to this trend, only the worst-case QAM (16QAM) powers are included in this section.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
15 MHz	QPSK	26865	831.5	1 / 74	24.46
		26915	836.5	1 / 74	24.46
		26965	841.5	1 / 0	24.49
	16QAM	26865	831.5	1 / 74	23.46
		26915	836.5	1 / 74	23.40
		26965	841.5	1 / 0	23.38
10 MHz	QPSK	26840	829.0	1 / 49	24.50
		26915	836.5	1 / 25	24.74
		26990	844.0	1 / 25	24.60
	16QAM	26840	829.0	1 / 49	23.61
		26915	836.5	1 / 25	23.61
		26990	844.0	1 / 25	23.78
5 MHz	QPSK	26815	826.5	1 / 24	24.41
		26915	836.5	1 / 0	24.51
		27015	846.5	1 / 0	24.78
	16QAM	26815	826.5	1 / 24	23.30
		26915	836.5	1 / 0	23.51
		27015	846.5	1 / 0	23.49
3 MHz	QPSK	26805	825.5	1 / 0	24.25
		26915	836.5	1 / 0	24.58
		27025	847.5	1 / 7	24.48
	16QAM	26805	825.5	1 / 14	23.35
		26915	836.5	1 / 0	23.42
		27025	847.5	1 / 7	23.47
1.4 MHz	QPSK	26797	824.7	1 / 3	24.34
		26915	836.5	1 / 3	24.65
		27033	848.3	1 / 3	24.47
	16QAM	26797	824.7	1 / 3	23.28
		26915	836.5	1 / 3	23.36
		27033	848.3	1 / 3	23.76

Table 7-2. Conducted Power Output Data (LTE Band 26/5 – Ant1)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	π/2 BPSK	166800	834.0	1 / 104	24.42
		167300	836.5	1 / 104	24.42
		167800	839.0	1 / 104	24.72
	QPSK	166800	834.0	1 / 104	24.55
		167300	836.5	1 / 104	24.74
		167800	839.0	1 / 104	24.74
	16-QAM	166800	834.0	1 / 104	23.33
		167300	836.5	1 / 104	23.86
		167800	839.0	1 / 104	23.83
15 MHz	π/2 BPSK	166300	831.5	1 / 77	24.71
		167300	836.5	1 / 77	24.63
		168300	841.5	1 / 77	24.60
	QPSK	166300	831.5	1 / 77	24.62
		167300	836.5	1 / 77	24.69
		168300	841.5	1 / 77	24.44
	16-QAM	166300	831.5	1 / 77	23.75
		167300	836.5	1 / 77	23.69
		168300	841.5	1 / 77	23.78
10 MHz	π/2 BPSK	165800	829.0	1 / 50	24.51
		167300	836.5	1 / 50	24.57
		168800	844.0	1 / 26	24.62
	QPSK	165800	829.0	1 / 50	24.41
		167300	836.5	1 / 50	24.69
		168800	844.0	1 / 26	24.62
	16-QAM	165800	829.0	1 / 50	23.56
		167300	836.5	1 / 50	23.37
		168800	844.0	1 / 26	23.75
5 MHz	π/2 BPSK	165300	826.5	1 / 12	24.43
		167300	836.5	1 / 12	24.54
		169300	846.5	1 / 12	24.86
	QPSK	165300	826.5	1 / 12	24.52
		167300	836.5	1 / 12	24.71
		169300	846.5	1 / 12	24.96
	16-QAM	165300	826.5	1 / 12	23.55
		167300	836.5	1 / 12	23.71
		169300	846.5	1 / 12	23.85

Table 7-3. Conducted Power Output Data (NR Band 5 – Ant1)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
15 MHz	QPSK	26865	831.5	1 / 74	24.21
		26915	836.5	1 / 74	24.11
		26965	841.5	1 / 0	23.88
	16QAM	26865	831.5	1 / 74	22.97
		26915	836.5	1 / 74	23.03
		26965	841.5	1 / 0	22.91
10 MHz	QPSK	26840	829.0	1 / 49	23.92
		26915	836.5	1 / 25	23.92
		26990	844.0	1 / 0	23.96
	16QAM	26840	829.0	1 / 49	22.90
		26915	836.5	1 / 25	23.09
		26990	844.0	1 / 0	23.02
5 MHz	QPSK	26815	826.5	1 / 0	23.82
		26915	836.5	1 / 24	23.91
		27015	846.5	1 / 0	23.96
	16QAM	26815	826.5	1 / 0	22.92
		26915	836.5	1 / 24	23.05
		27015	846.5	1 / 0	23.31
3 MHz	QPSK	26805	825.5	1 / 14	23.82
		26915	836.5	1 / 0	23.76
		27025	847.5	1 / 0	23.75
	16QAM	26805	825.5	1 / 14	22.78
		26915	836.5	1 / 0	23.03
		27025	847.5	1 / 0	22.80
1.4 MHz	QPSK	26797	824.7	1 / 5	23.74
		26915	836.5	1 / 3	23.95
		27033	848.3	1 / 3	23.79
	16QAM	26797	824.7	1 / 5	22.79
		26915	836.5	1 / 3	23.16
		27033	848.3	1 / 3	22.89

Table 7-4. Conducted Power Output Data (LTE Band 26/5 – Ant2)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	π/2 BPSK	166800	834.0	1 / 104	23.79
		167300	836.5	1 / 104	23.74
		167800	839.0	1 / 104	23.75
	QPSK	166800	834.0	1 / 104	23.75
		167300	836.5	1 / 104	23.70
		167800	839.0	1 / 104	23.72
	16-QAM	166800	834.0	1 / 104	22.65
		167300	836.5	1 / 104	22.94
		167800	839.0	1 / 104	22.82
15 MHz	π/2 BPSK	166300	831.5	1 / 77	23.76
		167300	836.5	1 / 77	23.82
		168300	841.5	1 / 39	23.78
	QPSK	166300	831.5	1 / 77	23.77
		167300	836.5	1 / 77	23.88
		168300	841.5	1 / 39	23.80
	16-QAM	166300	831.5	1 / 77	22.87
		167300	836.5	1 / 77	22.89
		168300	841.5	1 / 39	22.84
10 MHz	π/2 BPSK	165800	829.0	1 / 50	23.67
		167300	836.5	1 / 26	23.79
		168800	844.0	1 / 26	23.76
	QPSK	165800	829.0	1 / 50	23.76
		167300	836.5	1 / 26	23.60
		168800	844.0	1 / 26	23.76
	16-QAM	165800	829.0	1 / 50	22.70
		167300	836.5	1 / 26	22.74
		168800	844.0	1 / 26	22.58
5 MHz	π/2 BPSK	165300	826.5	1 / 12	23.60
		167300	836.5	1 / 12	23.89
		169300	846.5	1 / 12	23.85
	QPSK	165300	826.5	1 / 12	23.56
		167300	836.5	1 / 12	23.94
		169300	846.5	1 / 12	23.98
	16-QAM	165300	826.5	1 / 12	22.62
		167300	836.5	1 / 12	22.77
		169300	846.5	1 / 12	22.86

Table 7-5. Conducted Power Output Data (NR Band 5 – Ant2)

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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 ≥ 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.

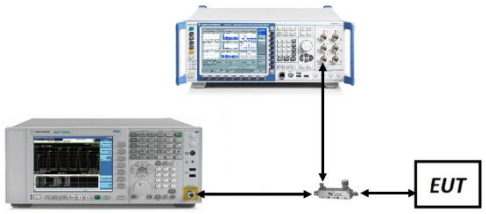

Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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Mode	Bandwidth	Modulation	OBW [MHz]
GSM-Cell	N/A	GMSK	0.249
GSM-Cell Edge		8-PSK	0.245
WCDMA-Cell		Spread Spectrum	4.161
LTE-Band 26/5	15MHz	QPSK	13.667
		16QAM	13.625
	10MHz	QPSK	9.196
		16QAM	9.141
	5 MHz	QPSK	4.682
		16QAM	4.630
	3 MHz	QPSK	2.758
		16QAM	2.750
	1.4 MHz	QPSK	1.131
		16QAM	1.129
NR Band n5	20 MHz	π/2 BPSK	17.963
		QPSK	19.127
		16QAM	19.061
	15 MHz	π/2 BPSK	1.469
		QPSK	14.223
		16QAM	14.242
	10 MHz	π/2 BPSK	9.034
		QPSK	9.409
		16QAM	9.450
	5 MHz	π/2 BPSK	4.534
		QPSK	4.631
		16QAM	4.630

Table 7-6. Occupied Bandwidth Results - Ant1

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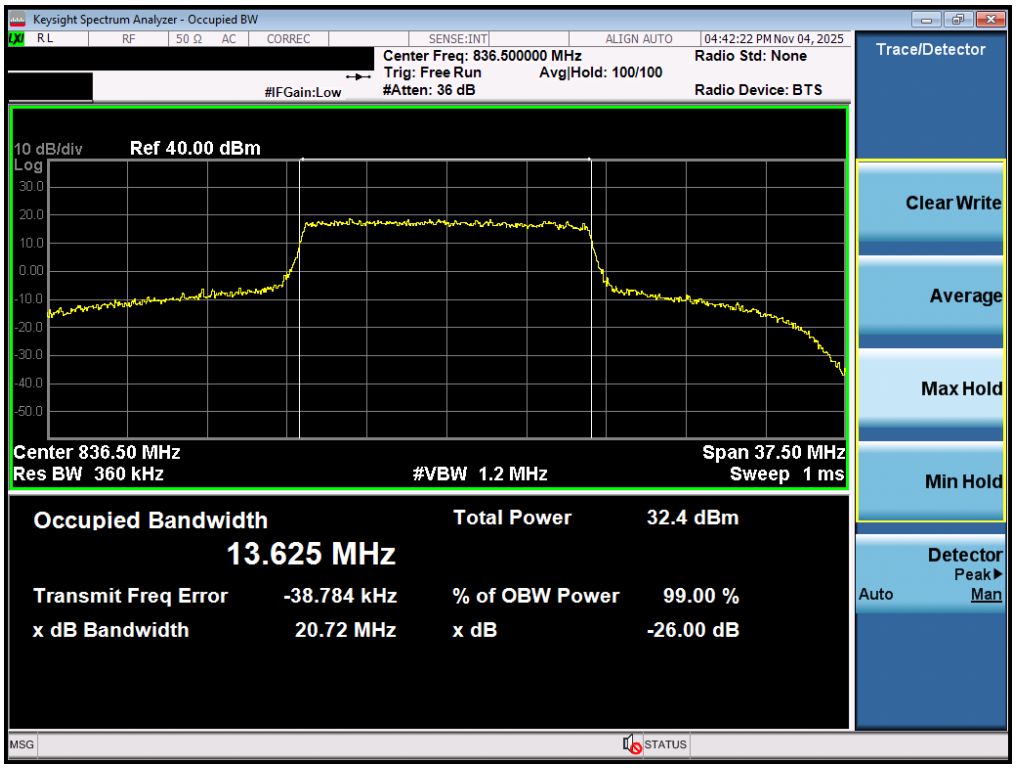
LTE Band 26/5 – Ant1

Plot 7-1. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB - Ant1)



Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB - Ant1)

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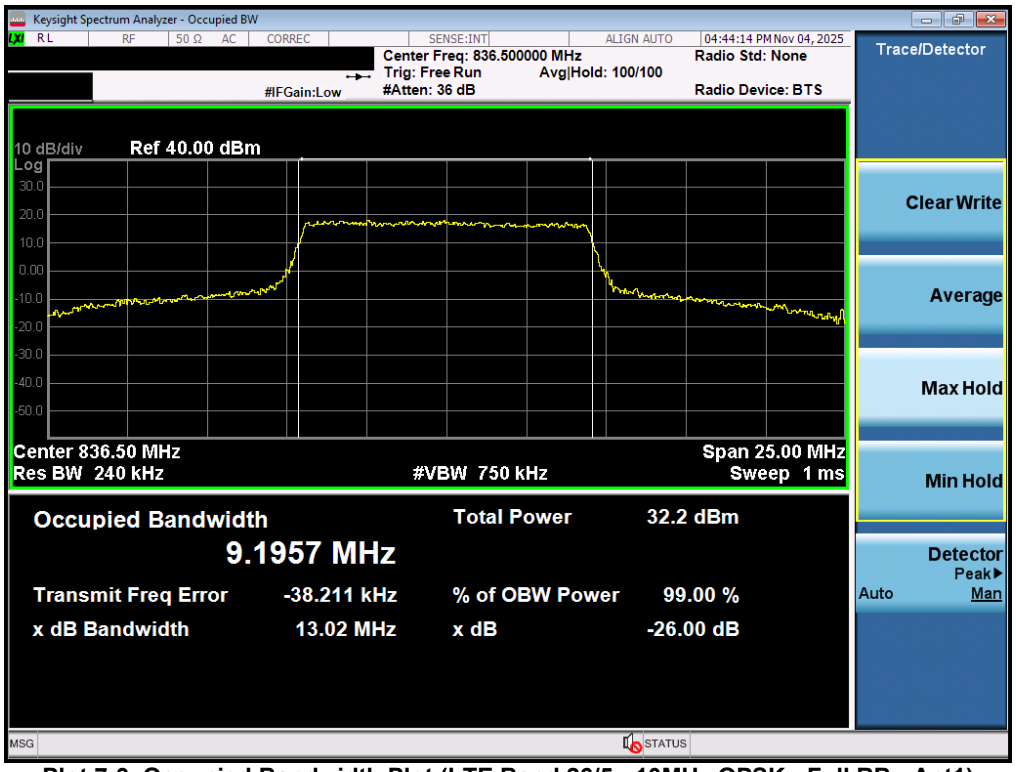
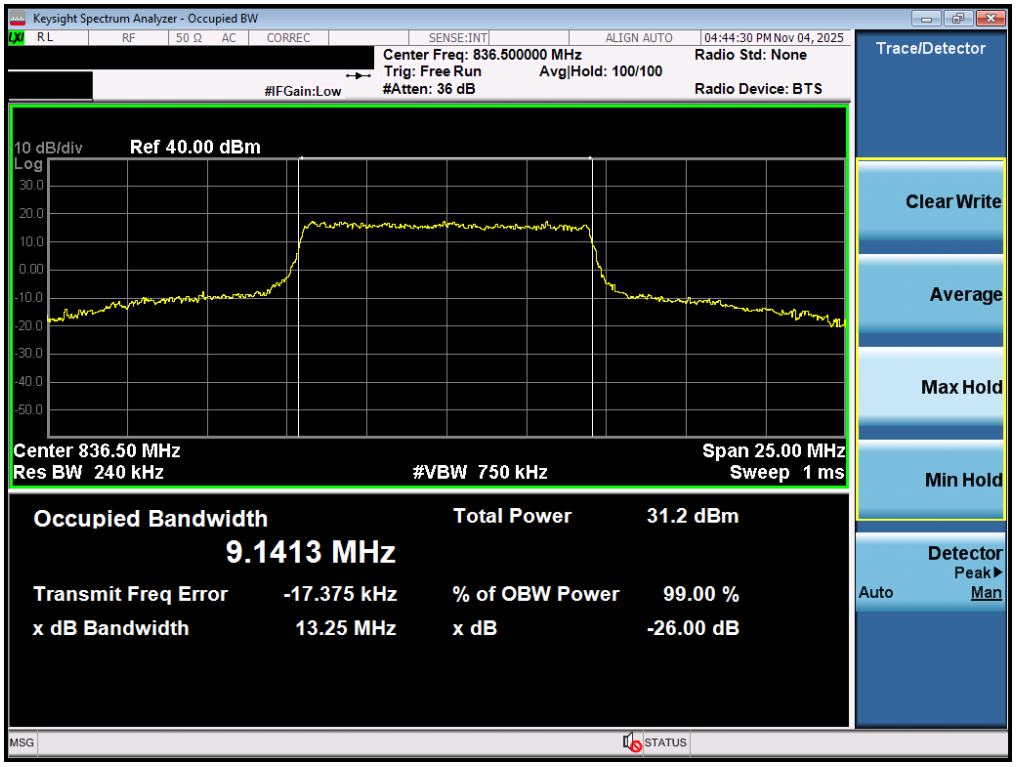


Plot 7-3. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz QPSK - Full RB - Ant1)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz 16-QAM - Full RB - Ant1)

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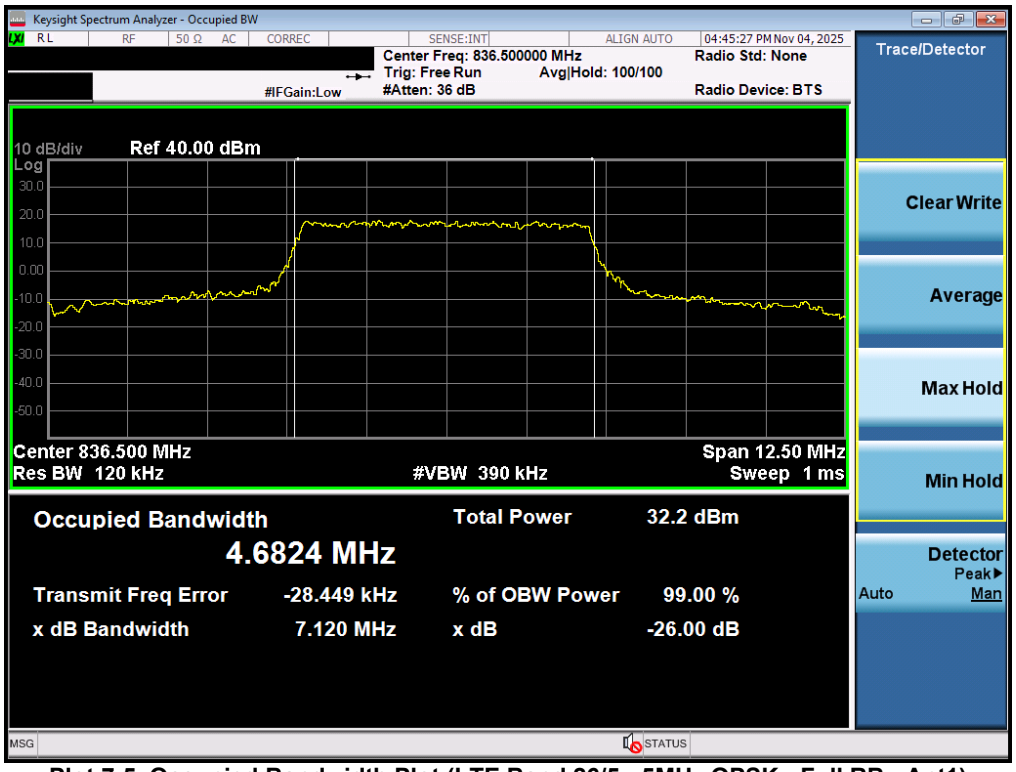
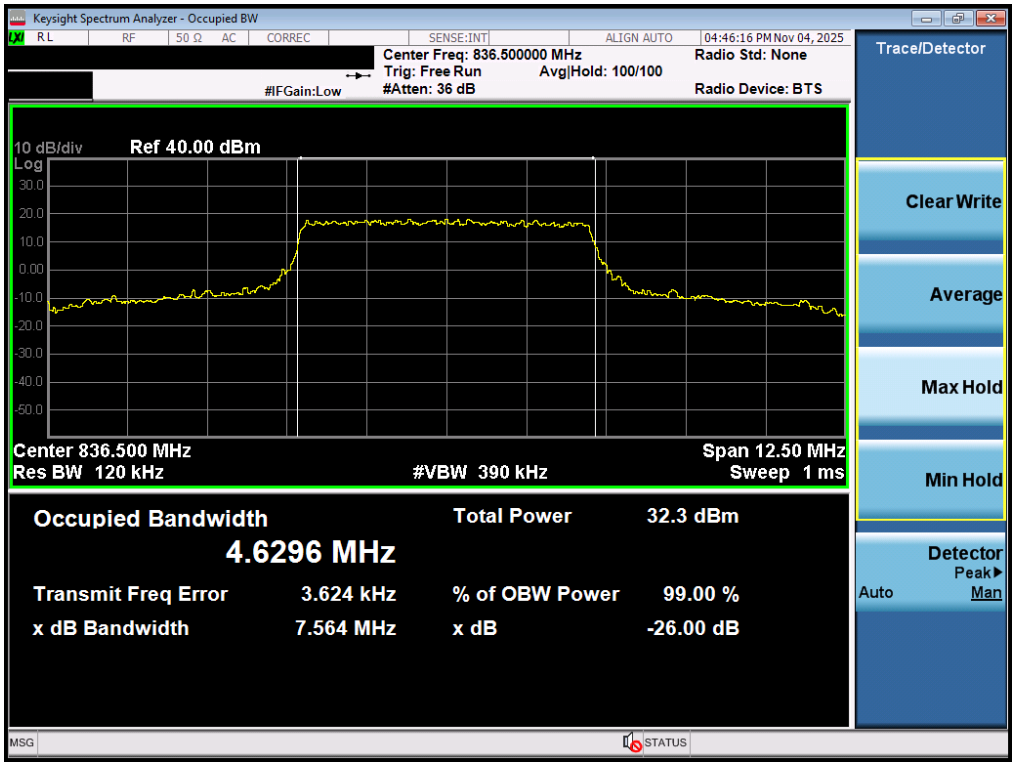


Plot 7-5. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz QPSK - Full RB - Ant1)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz 16-QAM - Full RB - Ant1)

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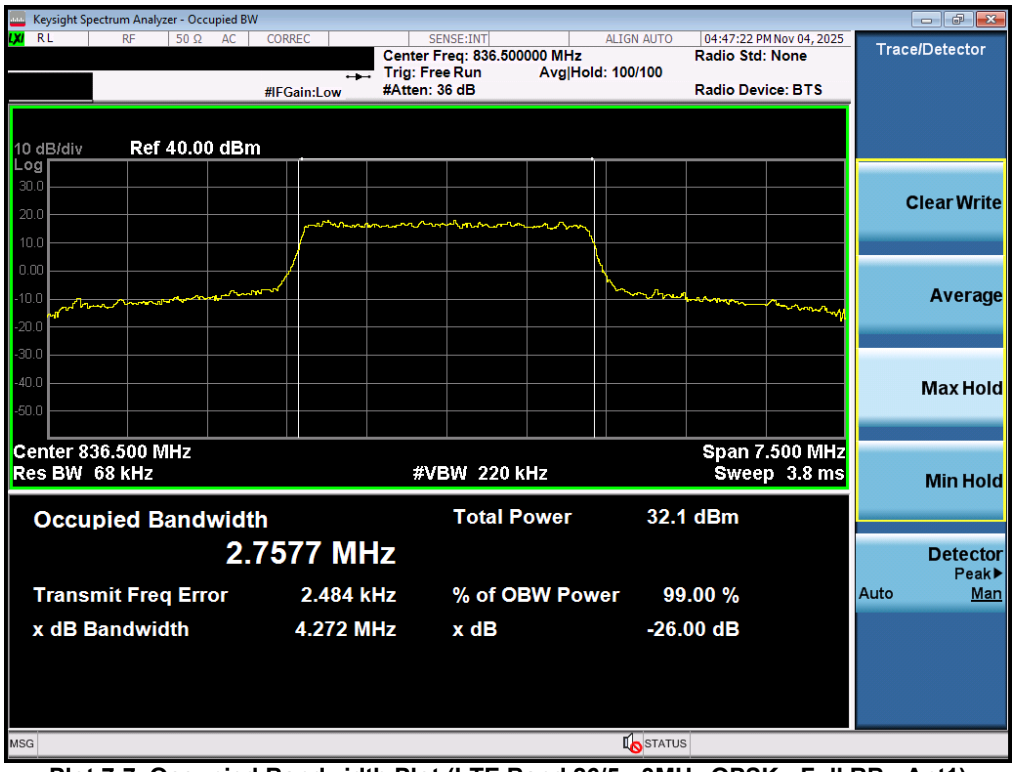

Plot 7-7. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz QPSK - Full RB - Ant1)

Plot 7-8. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz 16-QAM - Full RB - Ant1)

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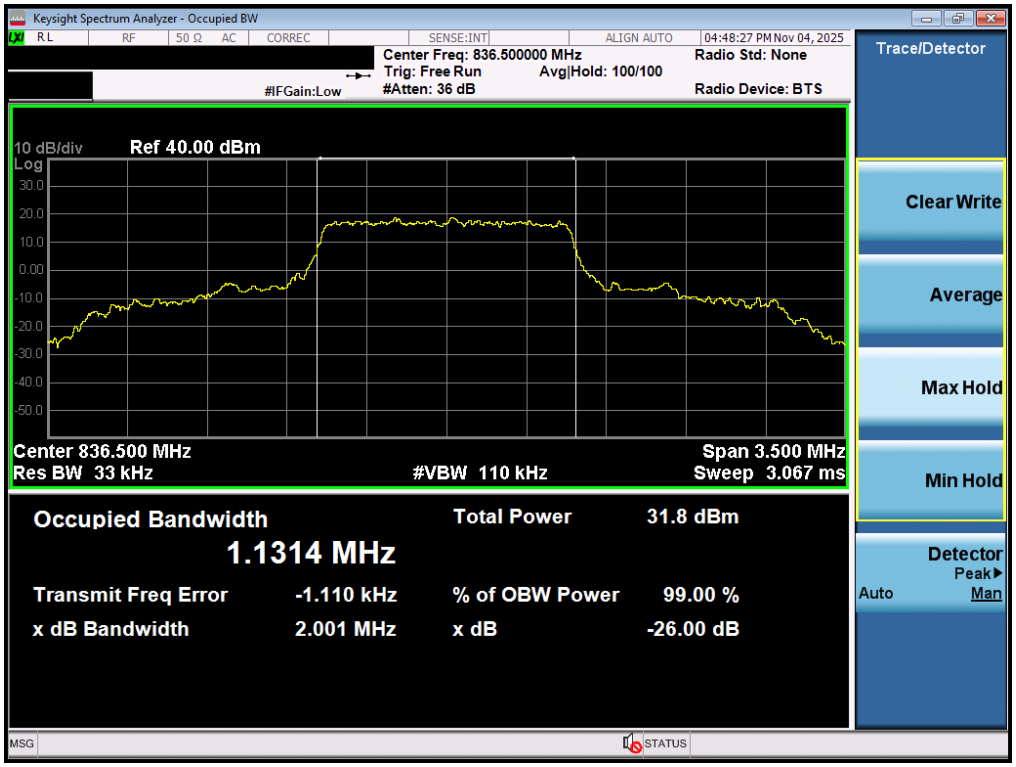

Plot 7-9. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB - Ant1)

Plot 7-10. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz 16-QAM - Full RB - Ant1)

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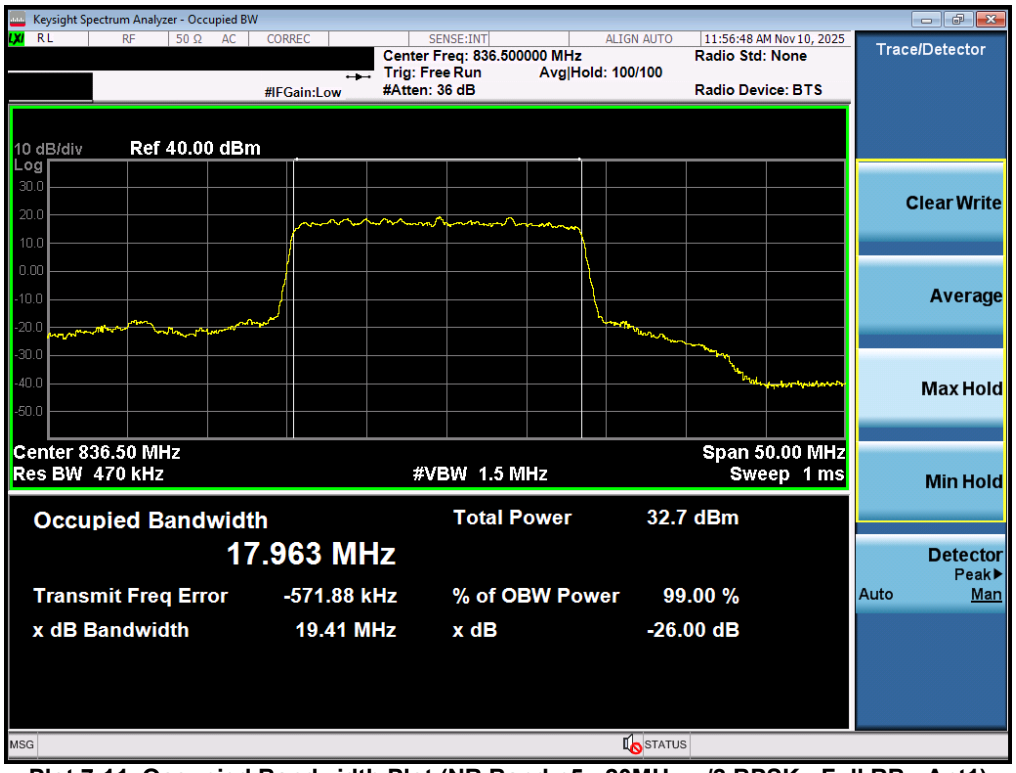
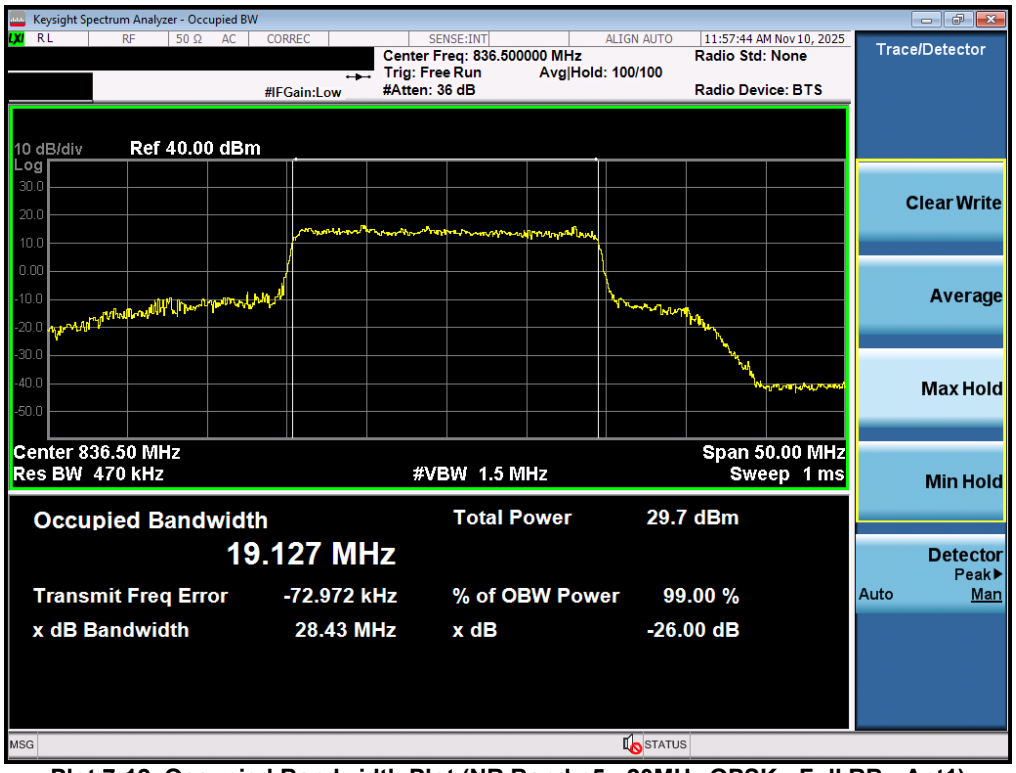
NR Band n5 – Ant1



Plot 7-11. Occupied Bandwidth Plot (NR Band n5 - 20MHz π/2 BPSK - Full RB - Ant1)



Plot 7-12. Occupied Bandwidth Plot (NR Band n5 - 20MHz QPSK - Full RB - Ant1)

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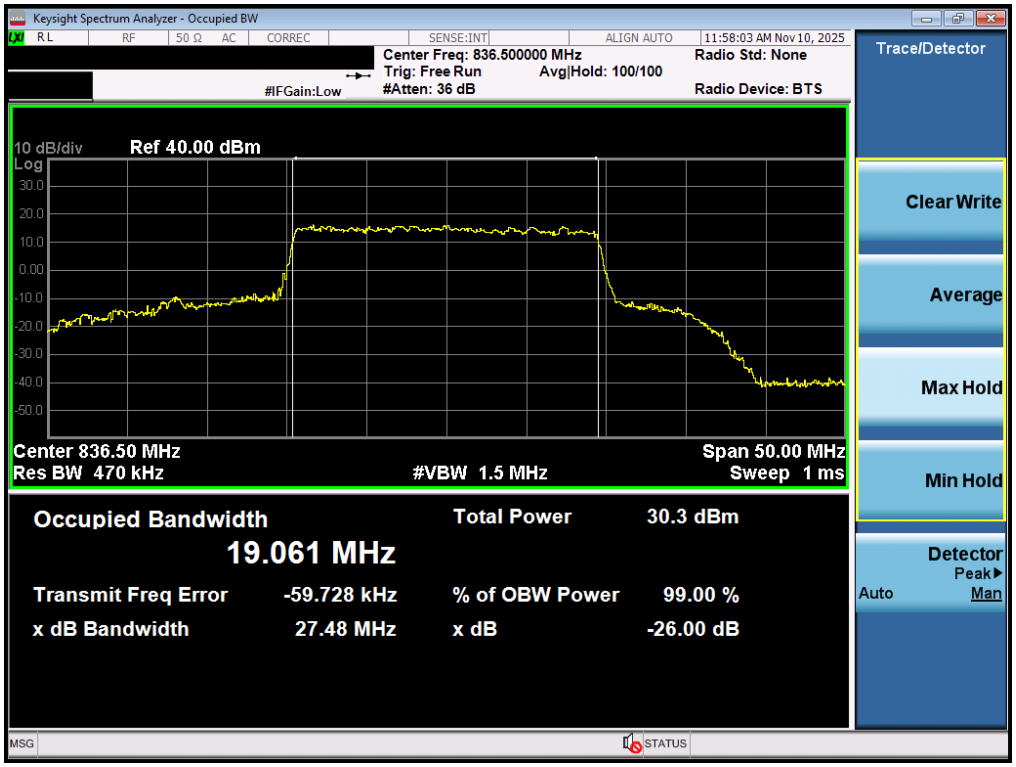
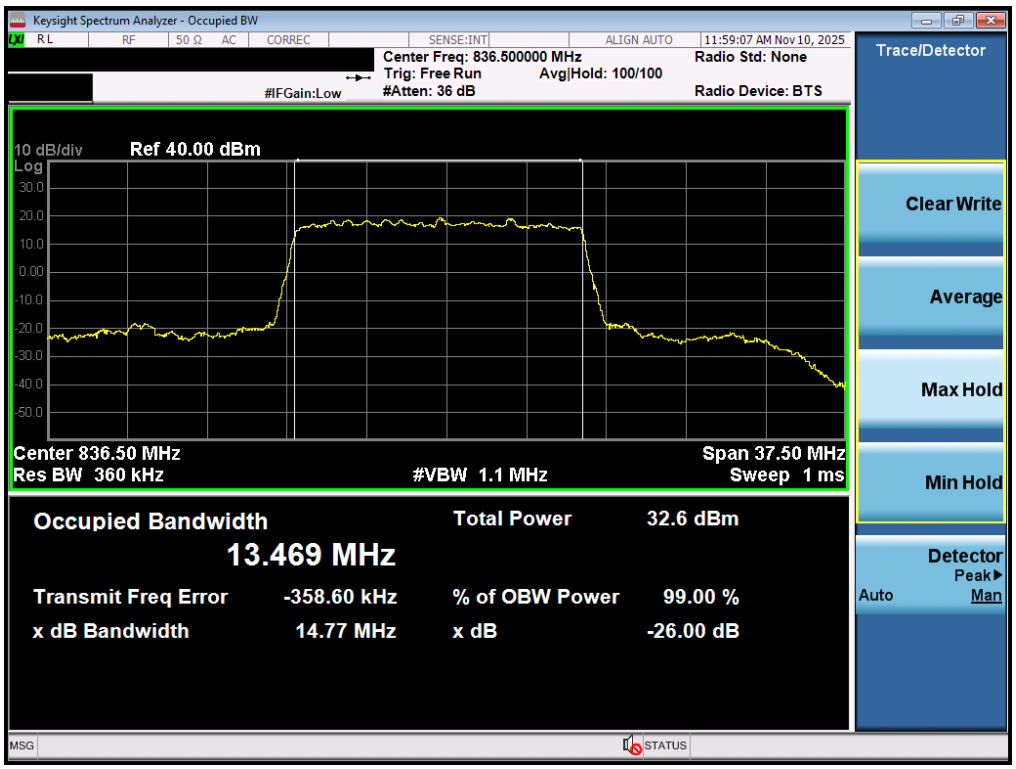


Plot 7-13. Occupied Bandwidth Plot (NR Band n5 - 20MHz 16-QAM - Full RB - Ant1)



Plot 7-14. Occupied Bandwidth Plot (NR Band n5 - 15MHz π/2 BPSK - Full RB - Ant1)

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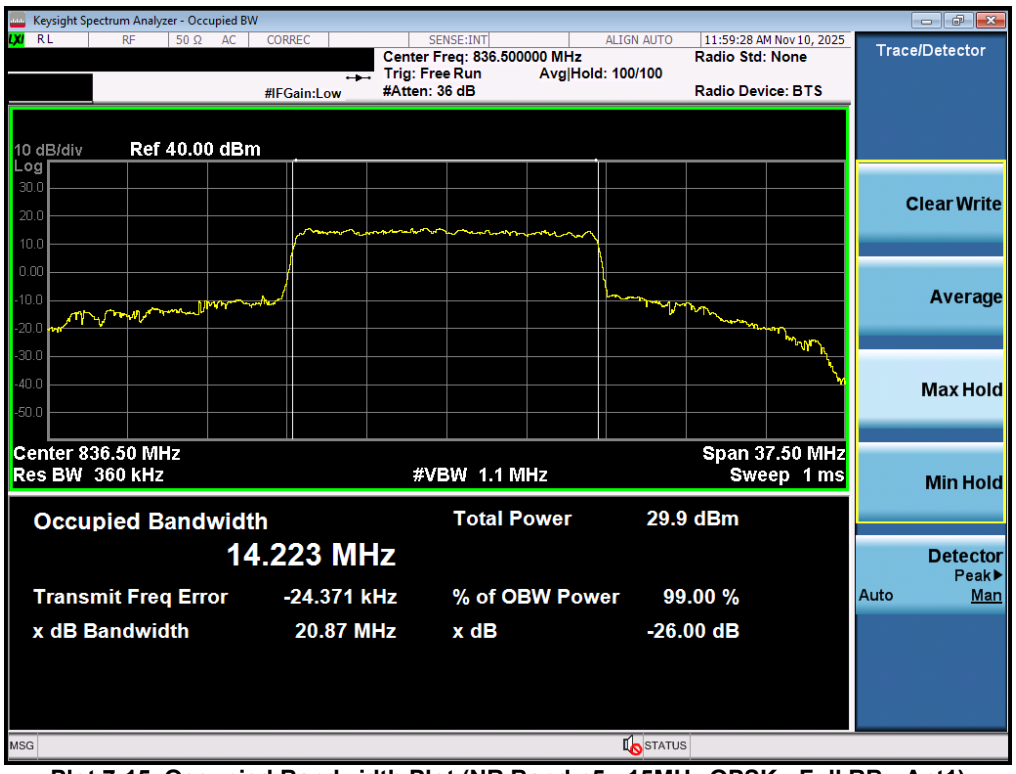
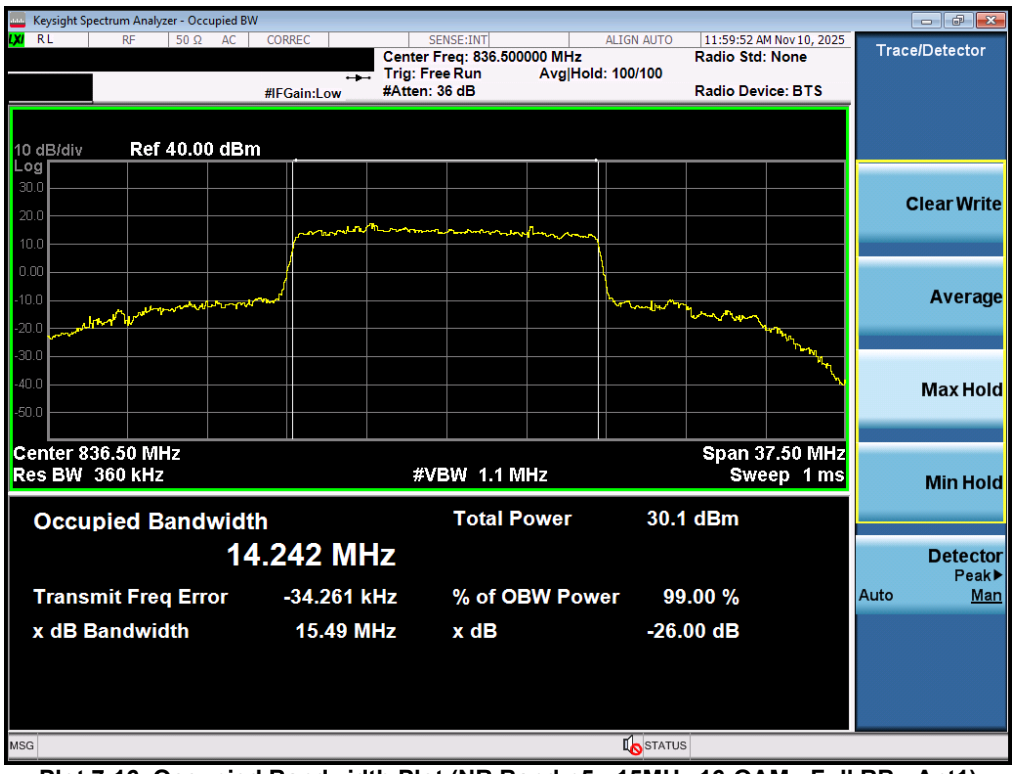


Plot 7-15. Occupied Bandwidth Plot (NR Band n5 - 15MHz QPSK - Full RB - Ant1)



Plot 7-16. Occupied Bandwidth Plot (NR Band n5 - 15MHz 16-QAM - Full RB - Ant1)

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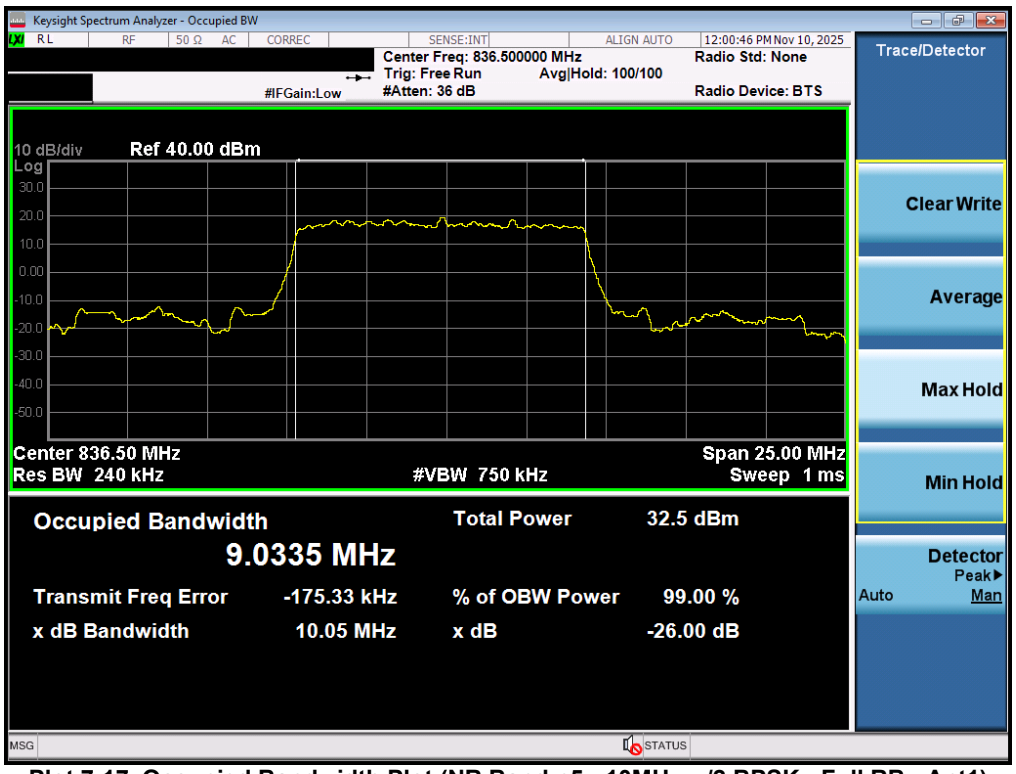

Plot 7-17. Occupied Bandwidth Plot (NR Band n5 - 10MHz π/2 BPSK - Full RB - Ant1)

Plot 7-18. Occupied Bandwidth Plot (NR Band n5 - 10MHz QPSK - Full RB - Ant1)

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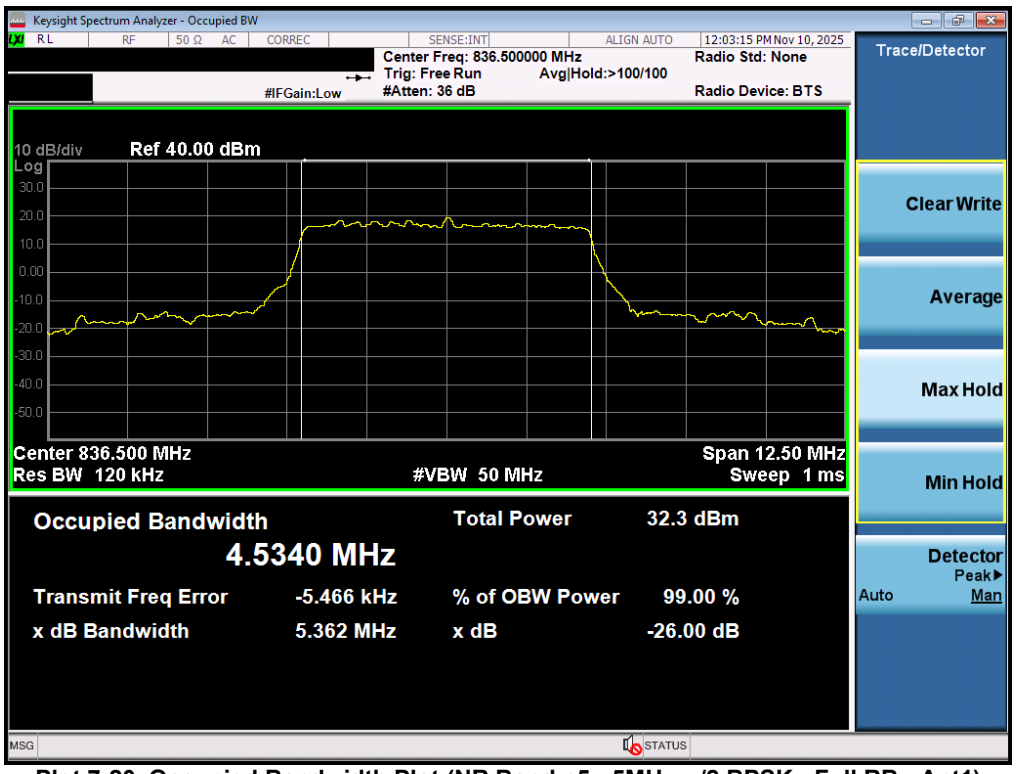
Plot 7-19. Occupied Bandwidth Plot (NR Band n5 - 10MHz 16-QAM - Full RB - Ant1)



Plot 7-20. Occupied Bandwidth Plot (NR Band n5 - 5MHz π/2 BPSK - Full RB - Ant1)

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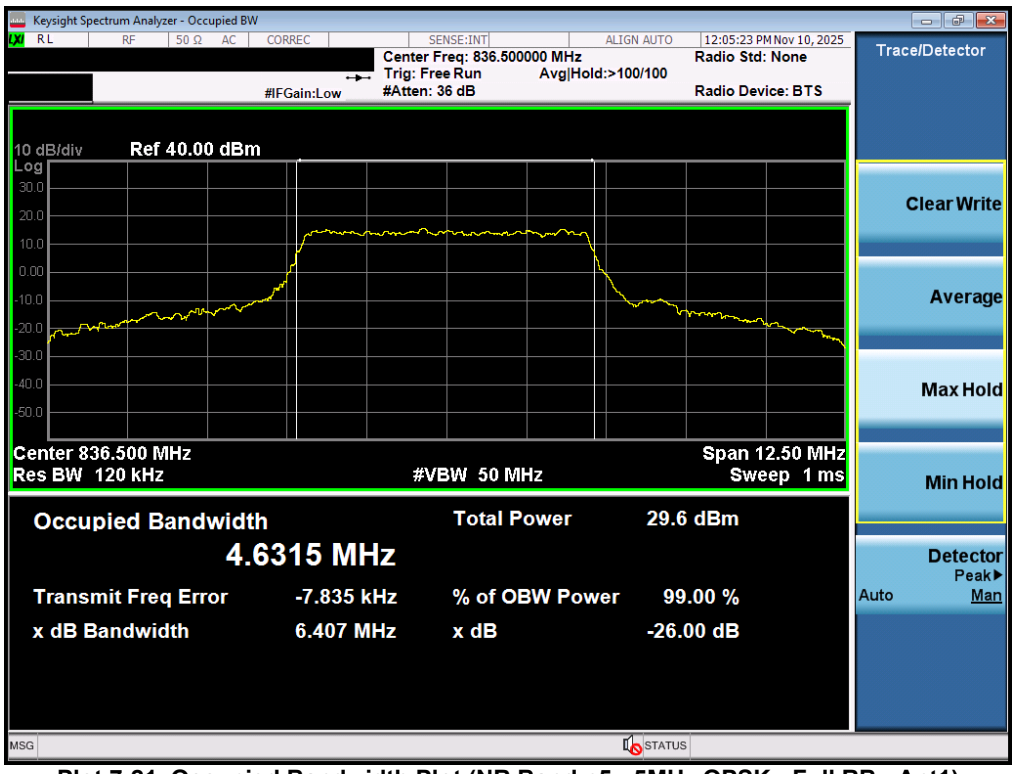
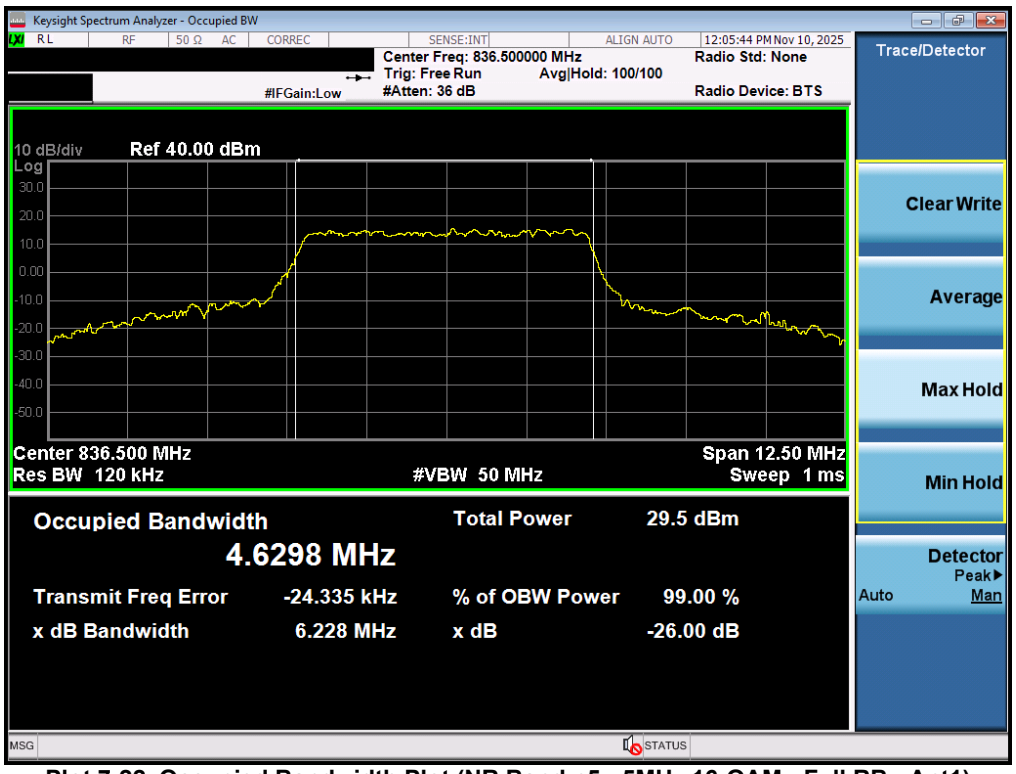


Plot 7-21. Occupied Bandwidth Plot (NR Band n5 - 5MHz QPSK - Full RB - Ant1)



Plot 7-22. Occupied Bandwidth Plot (NR Band n5 - 5MHz 16-QAM - Full RB - Ant1)

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GPRS Cell – Ant1

Plot 7-23. Occupied Bandwidth Plot (GPRS, Ch. 190 – Ant1)

Plot 7-24. Occupied Bandwidth Plot (EDGE, Ch. 190 – Ant1)

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WCDMA Cell – Ant1

Plot 7-25. Occupied Bandwidth Plot (WCDMA, Ch. 4183 – Ant1)

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Mode	Bandwidth	Modulation	OBW [MHz]
GSM850	N/A	GMSK	0.250
EDGE850		8-PSK	0.245
WCDMA850		Spread Spectrum	4.171
LTE Band 26/5	15MHz (Band 26 only)	QPSK	13.546
		16QAM	13.540
	10 MHz	QPSK	9.095
		16QAM	9.059
	5 MHz	QPSK	4.599
		16QAM	4.556
	3 MHz	QPSK	2.721
		16QAM	2.726
	1.4 MHz	QPSK	1.111
		16QAM	1.114
NR Band n5	20 MHz	π/2 BPSK	17.965
		QPSK	19.052
		16QAM	19.001
	15 MHz	π/2 BPSK	13.476
		QPSK	14.167
		16QAM	14.175
	10 MHz	π/2 BPSK	9.009
		QPSK	9.304
		16QAM	9.404
	5 MHz	π/2 BPSK	4.526
		QPSK	4.533
		16QAM	4.590

Table 7-7. Occupied Bandwidth Results – Ant2

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LTE Band 26/5 – Ant2

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

Plot 7-27. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB - Ant2)

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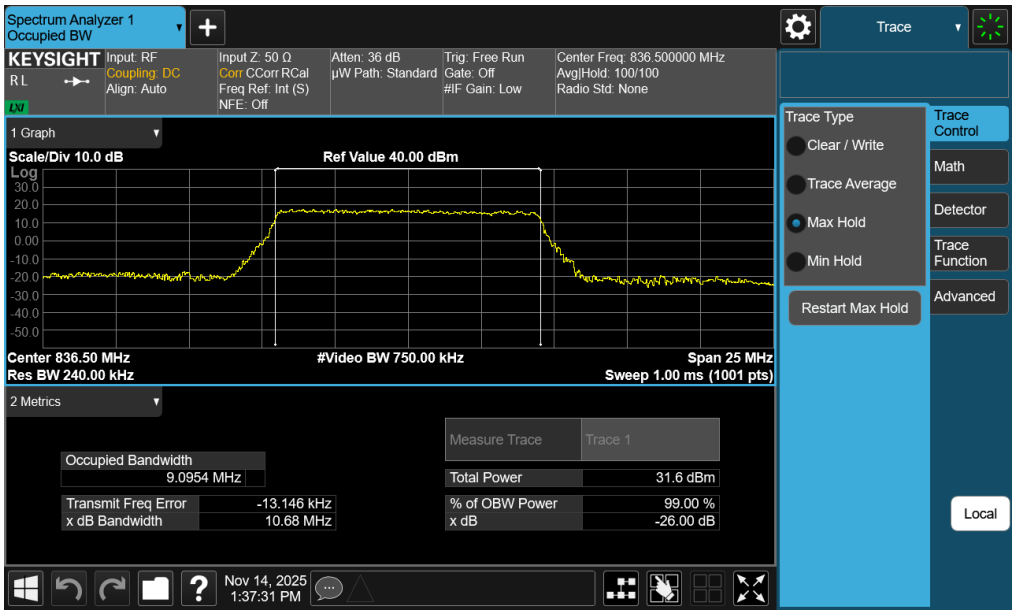
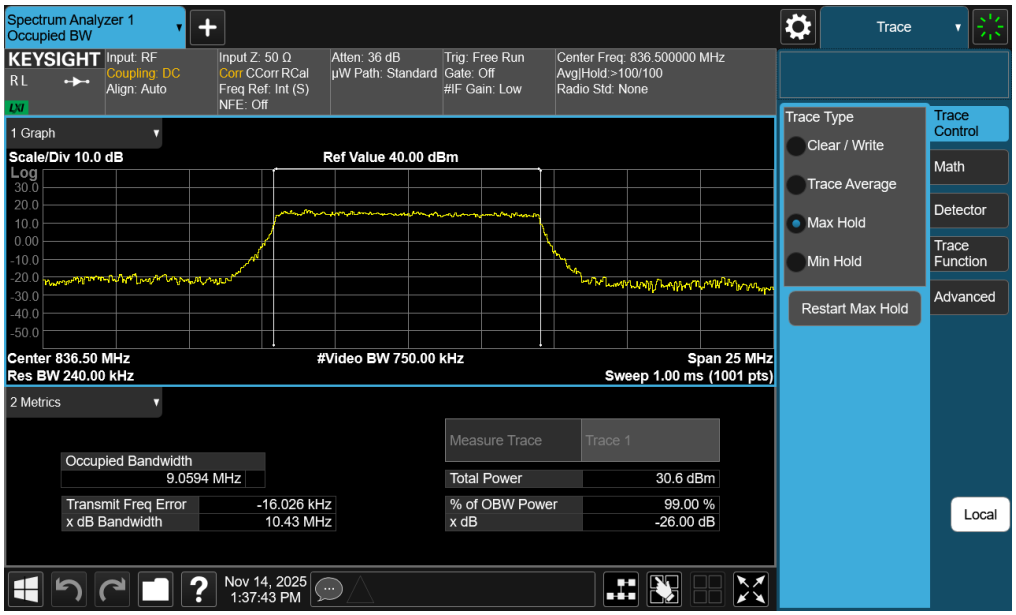


Plot 7-28. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz QPSK - Full RB - Ant2)



Plot 7-29. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz 16-QAM - Full RB - Ant2)

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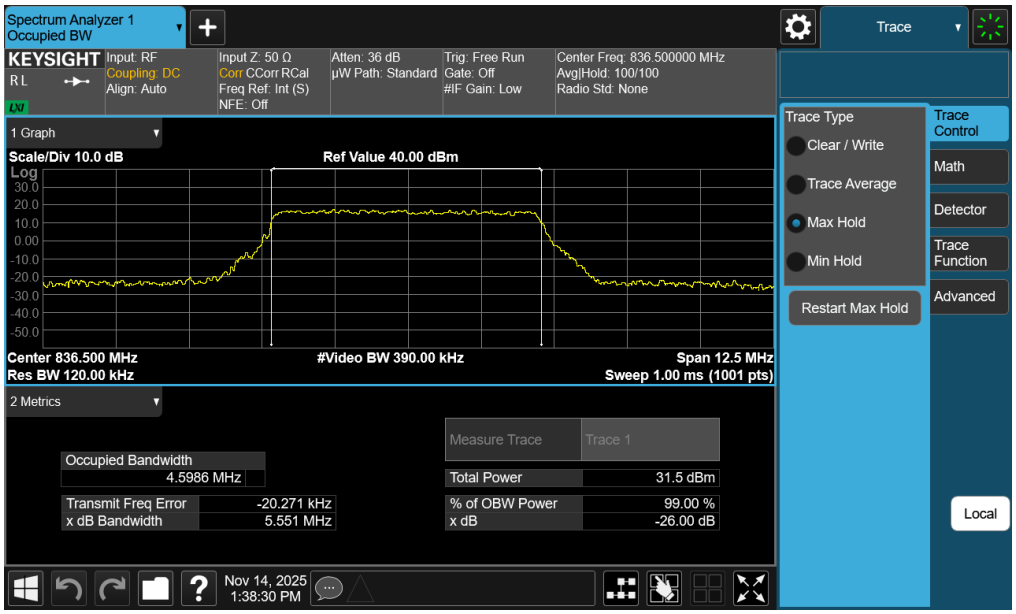
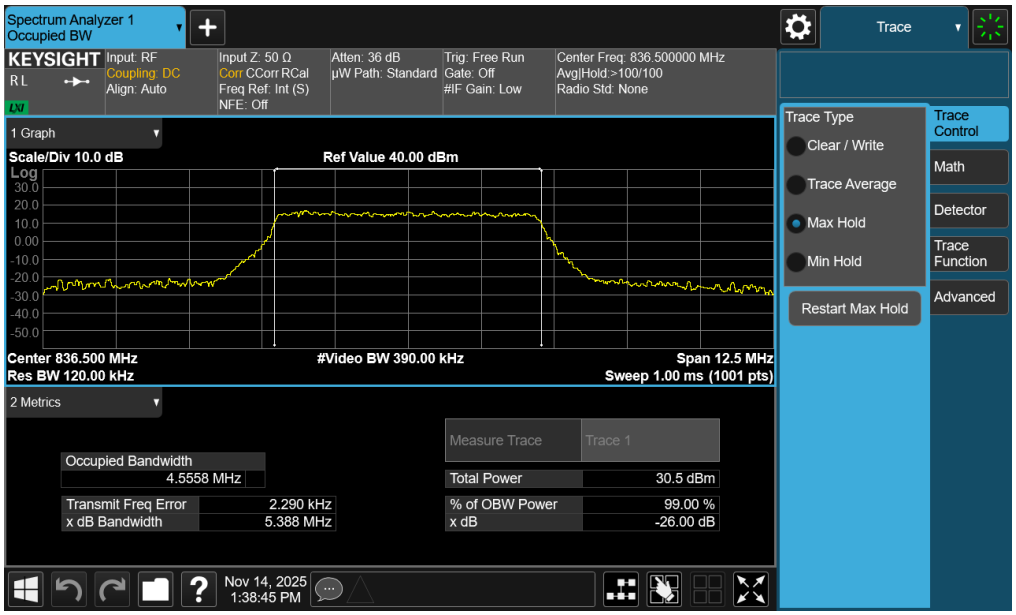


Plot 7-30. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz QPSK - Full RB - Ant2)



Plot 7-31. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz 16-QAM - Full RB - Ant2)

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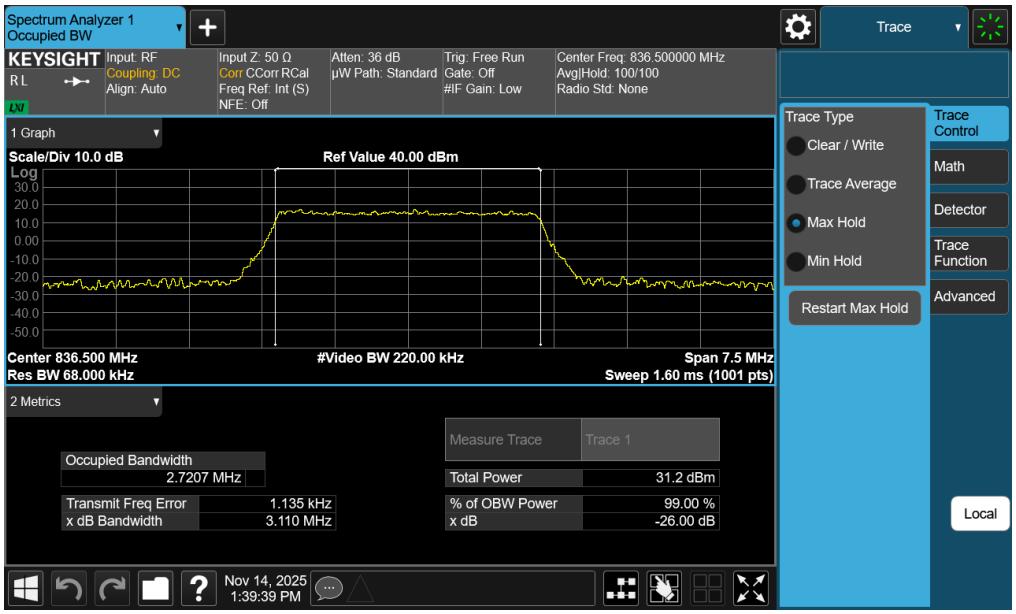
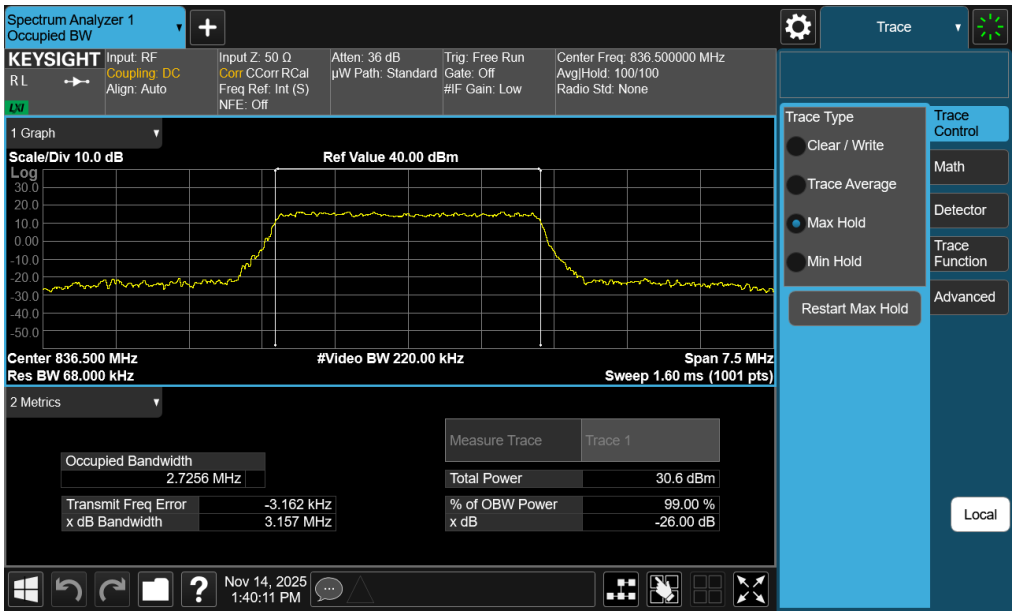


Plot 7-32. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz QPSK - Full RB - Ant2)



Plot 7-33. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz 16-QAM - Full RB - Ant2)

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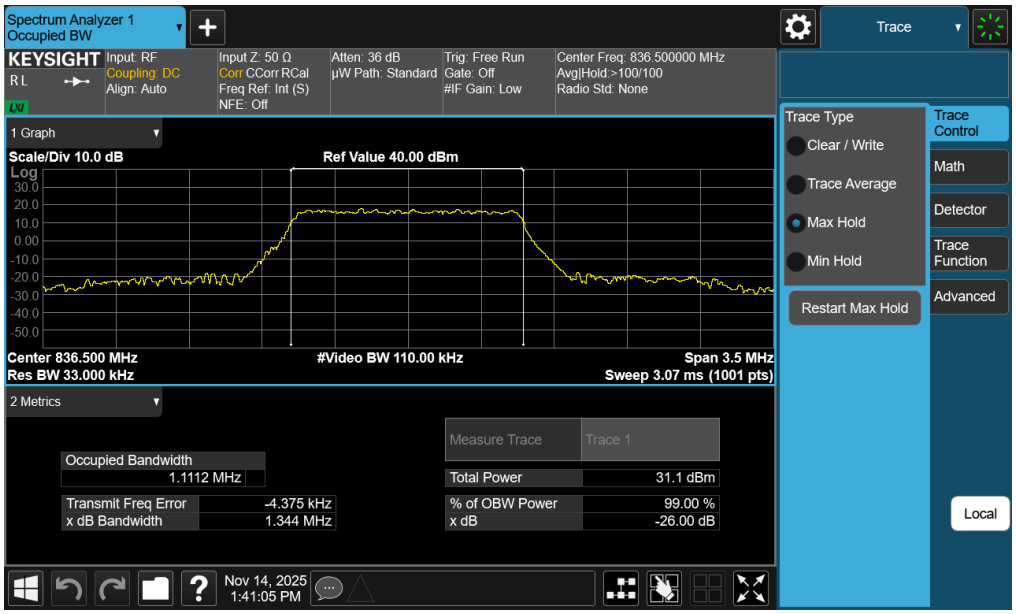
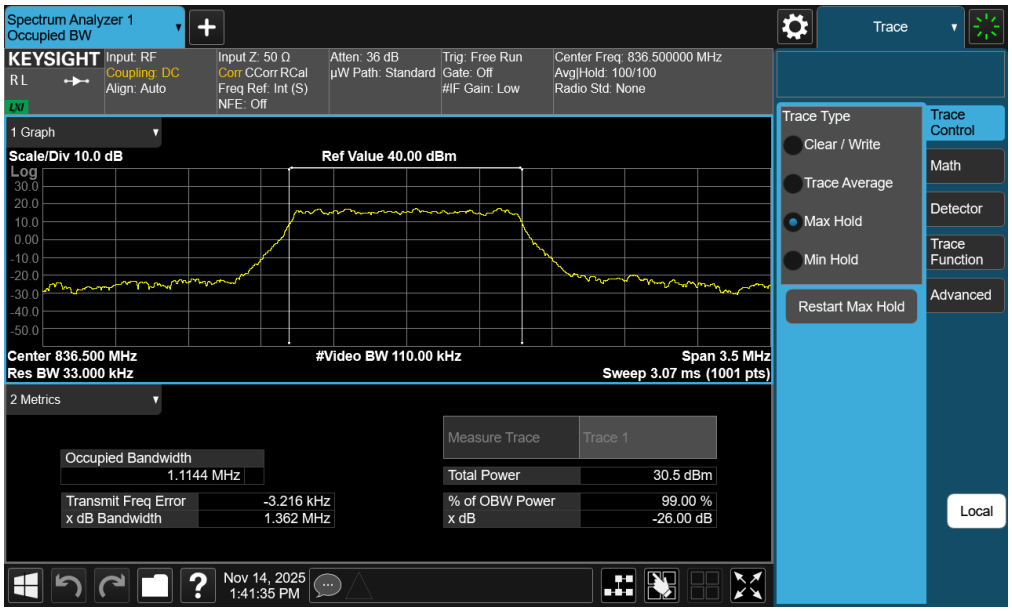


Plot 7-34. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB - Ant2)



Plot 7-35. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz 16-QAM - Full RB - Ant2)

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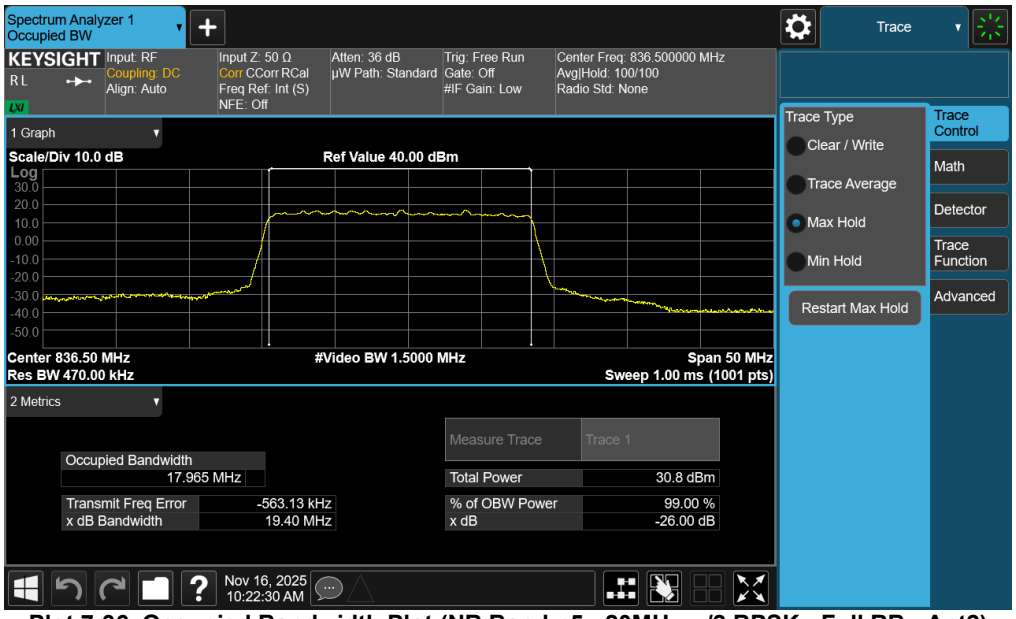
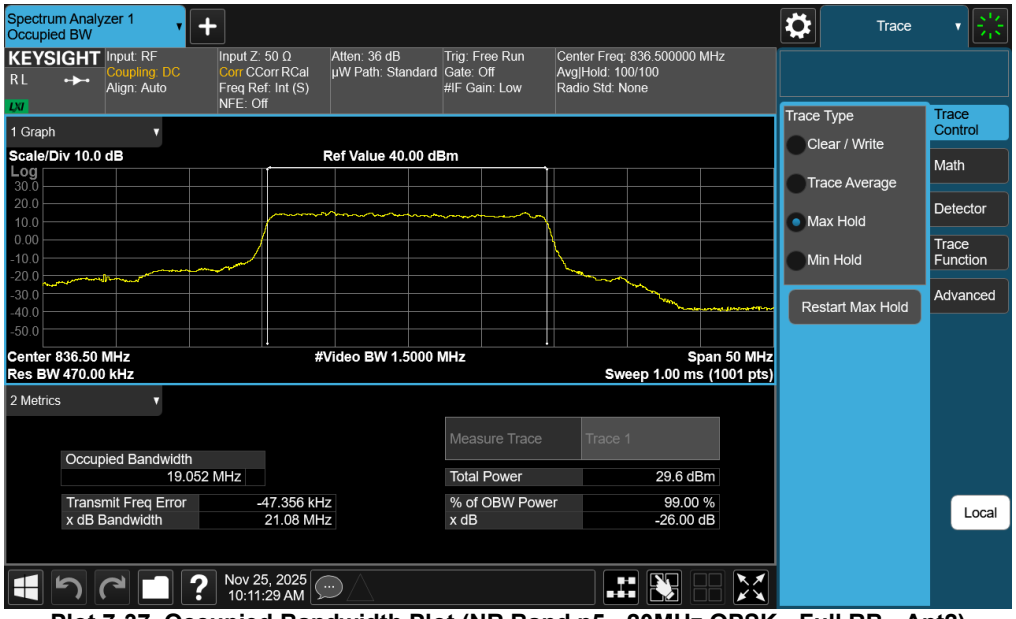
NR Band n5 – Ant2



Plot 7-36. Occupied Bandwidth Plot (NR Band n5 - 20MHz π/2 BPSK - Full RB - Ant2)



Plot 7-37. Occupied Bandwidth Plot (NR Band n5 - 20MHz QPSK - Full RB - Ant2)

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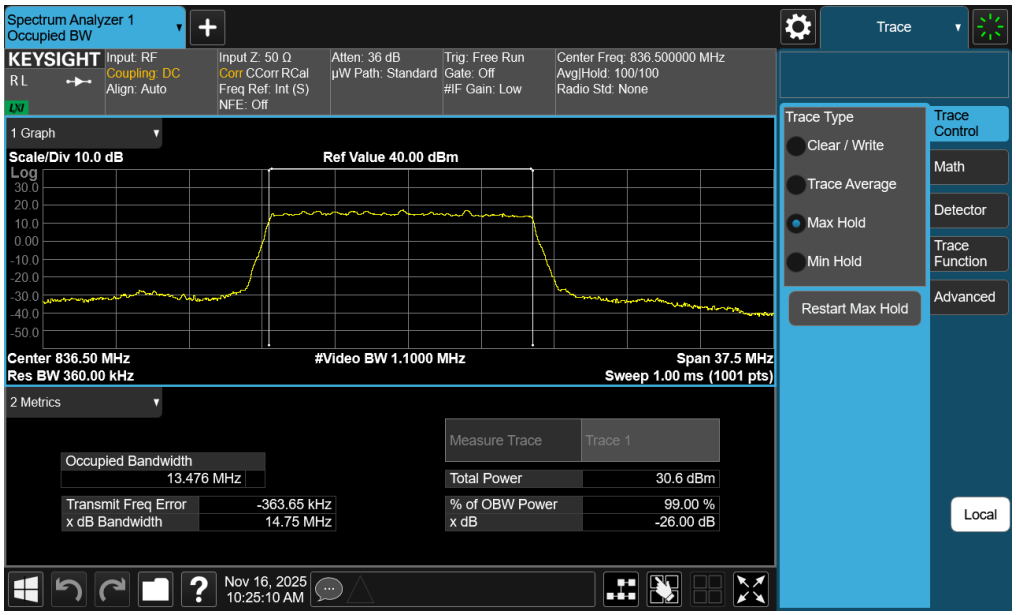
Plot 7-38. Occupied Bandwidth Plot (NR Band n5 - 20MHz 16-QAM - Full RB - Ant2)



Plot 7-39. Occupied Bandwidth Plot (NR Band n5 - 15MHz π/2 BPSK - Full RB - Ant2)

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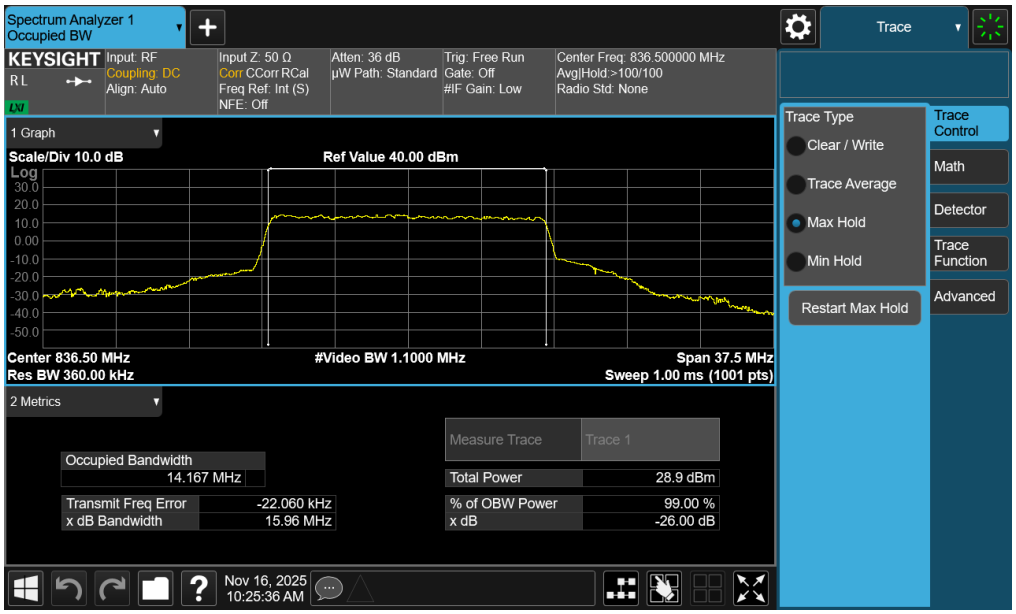

Plot 7-40. Occupied Bandwidth Plot (NR Band n5 - 15MHz QPSK - Full RB - Ant2)

Plot 7-41. Occupied Bandwidth Plot (NR Band n5 - 15MHz 16-QAM - Full RB - Ant2)

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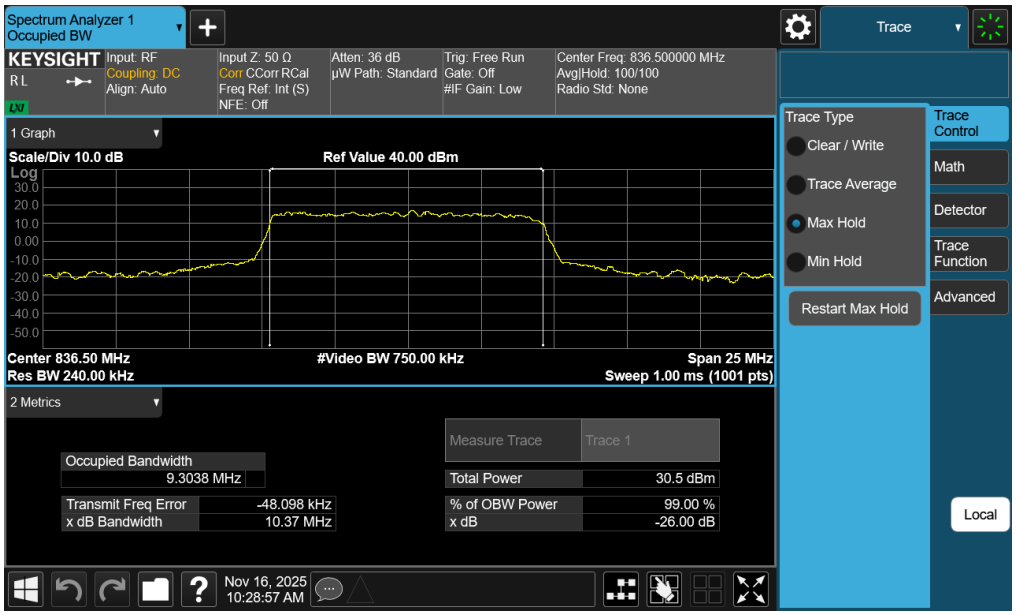
Plot 7-42. Occupied Bandwidth Plot (NR Band n5 - 10MHz π/2 BPSK - Full RB - Ant2)



Plot 7-43. Occupied Bandwidth Plot (NR Band n5 - 10MHz QPSK - Full RB - Ant2)

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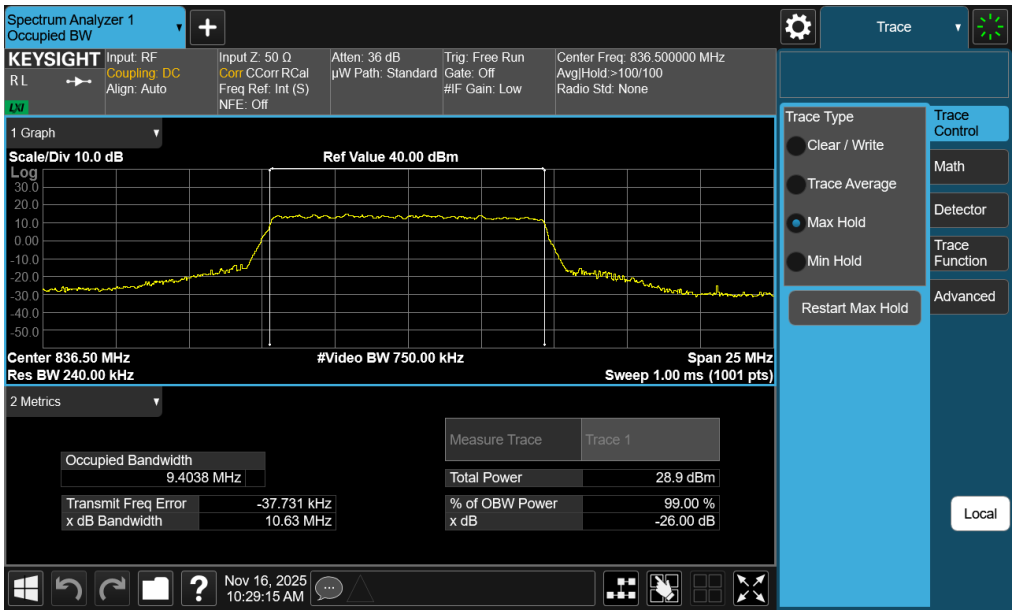

Plot 7-44. Occupied Bandwidth Plot (NR Band n5 - 10MHz 16-QAM - Full RB - Ant2)

Plot 7-45. Occupied Bandwidth Plot (NR Band n5 - 5MHz π/2 BPSK - Full RB - Ant2)

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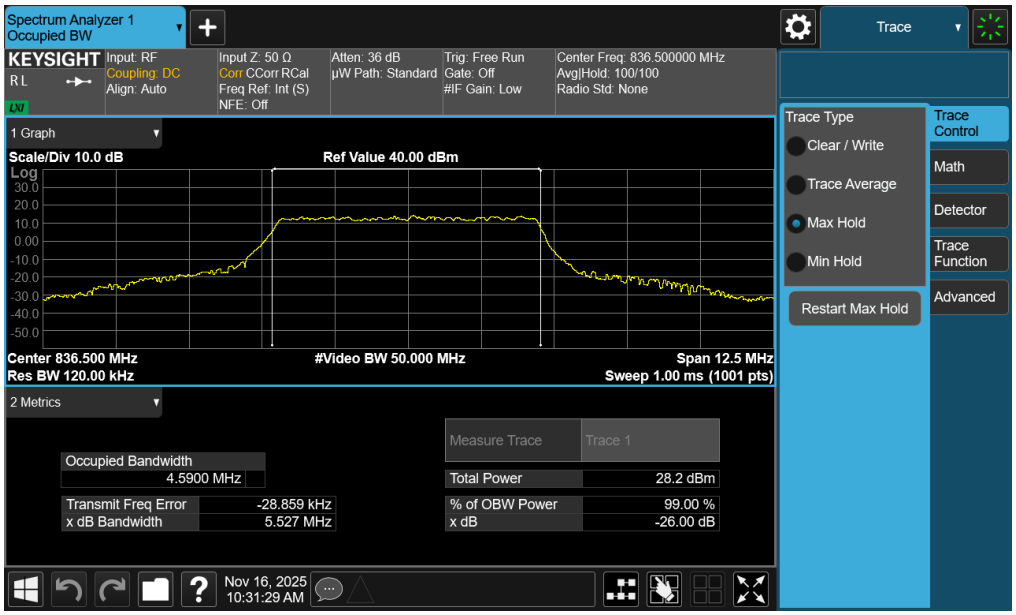
Plot 7-46. Occupied Bandwidth Plot (NR Band n5 - 5MHz QPSK - Full RB - Ant2)



Plot 7-47. Occupied Bandwidth Plot (NR Band n5 - 5MHz 16-QAM - Full RB - Ant2)

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GPRS Cell – Ant2

Plot 7-48. Occupied Bandwidth Plot (GPRS, Ch. 190 – Ant2)

Plot 7-49. Occupied Bandwidth Plot (EDGE, Ch. 190 – Ant2)

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WCDMA Cell – Ant2

Plot 7-50. Occupied Bandwidth Plot (WCDMA, Ch. 4183 – Ant2)

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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 $\log_{10}(P_{[Watts]})$, 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.

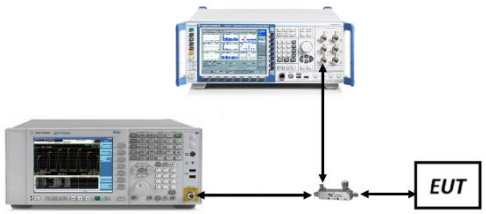

Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. 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 [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-Cell	250kHz	Low	30.0 - 823.0	-35.83	-13.0	-22.83
		Low	849.0 - 1000.0	-50.88	-13.0	-37.88
		Low	1000.0 - 10000.0	-28.66	-13.0	-15.66
		Mid	30.0 - 824.0	-50.53	-13.0	-37.52
		Mid	849.0 - 1000.0	-51.15	-13.0	-38.15
		Mid	1000.0 - 10000.0	-27.89	-13.0	-14.89
		High	30.0 - 824.0	-50.83	-13.0	-37.83
		High	850.0 - 1000.0	-40.20	-13.0	-27.20
		High	1000.0 - 10000.0	-29.18	-13.0	-16.18
WCDMA-Cell	5MHz	Low	30.0 - 823.0	-55.62	-13.0	-42.62
		Low	849.0 - 1000.0	-60.21	-13.0	-47.21
		Low	1000.0 - 10000.0	-32.95	-13.0	-19.95
		Mid	30.0 - 824.0	-54.54	-13.0	-41.54
		Mid	849.0 - 1000.0	-55.07	-13.0	-42.07
		Mid	1000.0 - 10000.0	-32.85	-13.0	-19.85
		High	30.0 - 824.0	-59.24	-13.0	-46.24
		High	850.0 - 1000.0	-26.34	-13.0	-13.34
		High	1000.0 - 10000.0	-33.16	-13.0	-20.16
LTE-B26-5	15MHz	Low	30.0 - 823.0	-47.93	-13.0	-34.93
		Low	849.0 - 1000.0	-61.22	-13.0	-48.22
		Low	1000.0 - 10000.0	-42.19	-13.0	-29.19
		Mid	30.0 - 824.0	-50.91	-13.0	-37.91
		Mid	849.0 - 1000.0	-61.07	-13.0	-48.07
		Mid	1000.0 - 10000.0	-42.55	-13.0	-29.55
		High	30.0 - 824.0	-56.86	-13.0	-43.86
		High	850.0 - 1000.0	-60.73	-13.0	-47.73
		High	1000.0 - 10000.0	-42.77	-13.0	-29.77
NR-5	20MHz	Low	30.0 - 824.0	-46.56	-13.0	-33.56
		Low	849.0 - 1000.0	-55.28	-13.0	-42.28
		Low	1000.0 - 10000.0	-43.07	-13.0	-30.07
		Mid	30.0 - 824.0	-47.53	-13.0	-34.53
		Mid	849.0 - 1000.0	-52.32	-13.0	-39.32
		Mid	1000.0 - 10000.0	-42.85	-13.0	-29.85
		High	30.0 - 824.0	-53.60	-13.0	-40.60
		High	849.0 - 1000.0	-47.94	-13.0	-34.94
		High	1000.0 - 10000.0	-43.08	-13.0	-30.08

Table 7-8. Conducted Emission Test Results - Ant1

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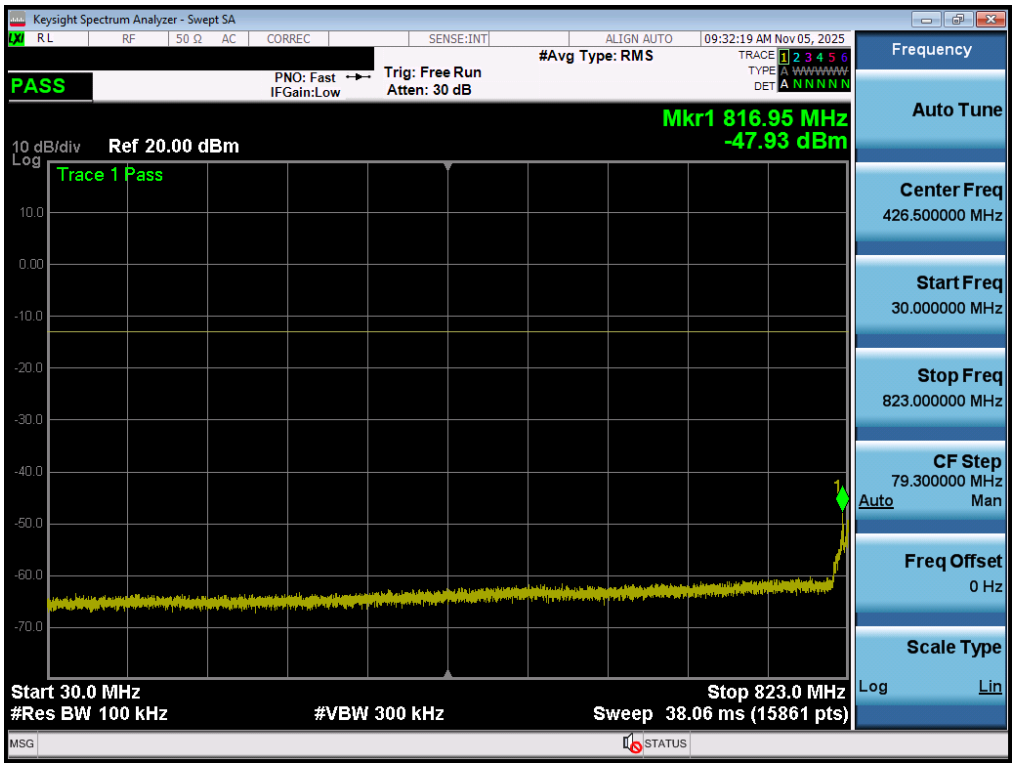
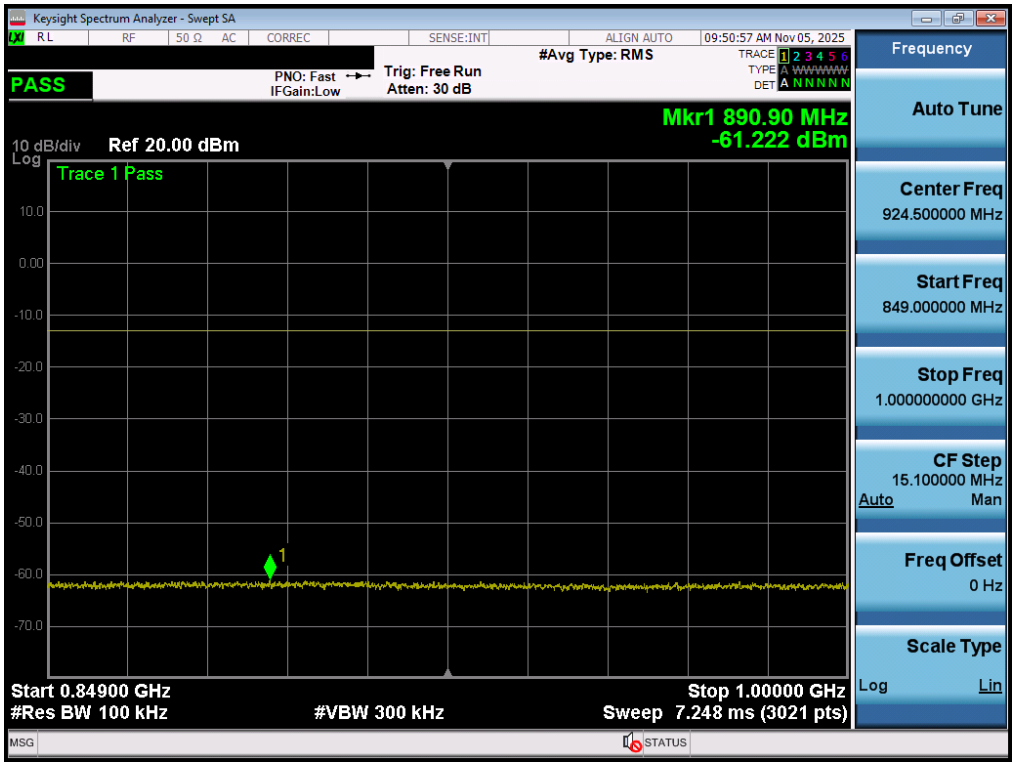
LTE Band 26 – Ant1



Plot 7-51. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK – 1 RB - Low Channel – Ant1)



Plot 7-52. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - Low Channel – Ant1)

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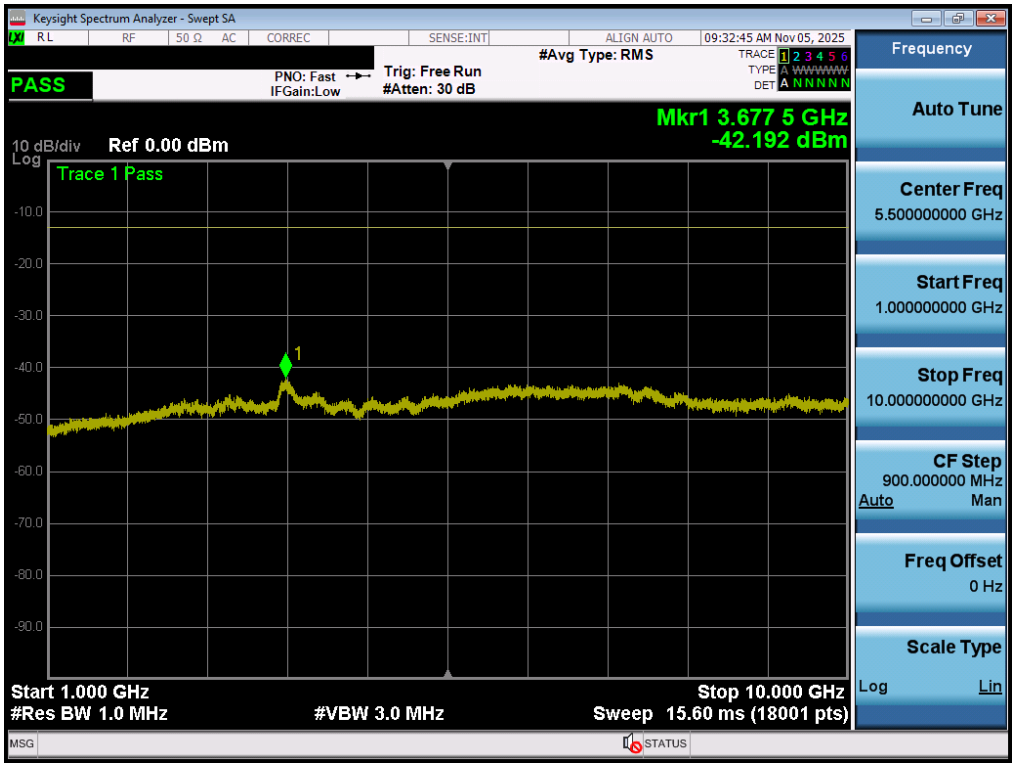
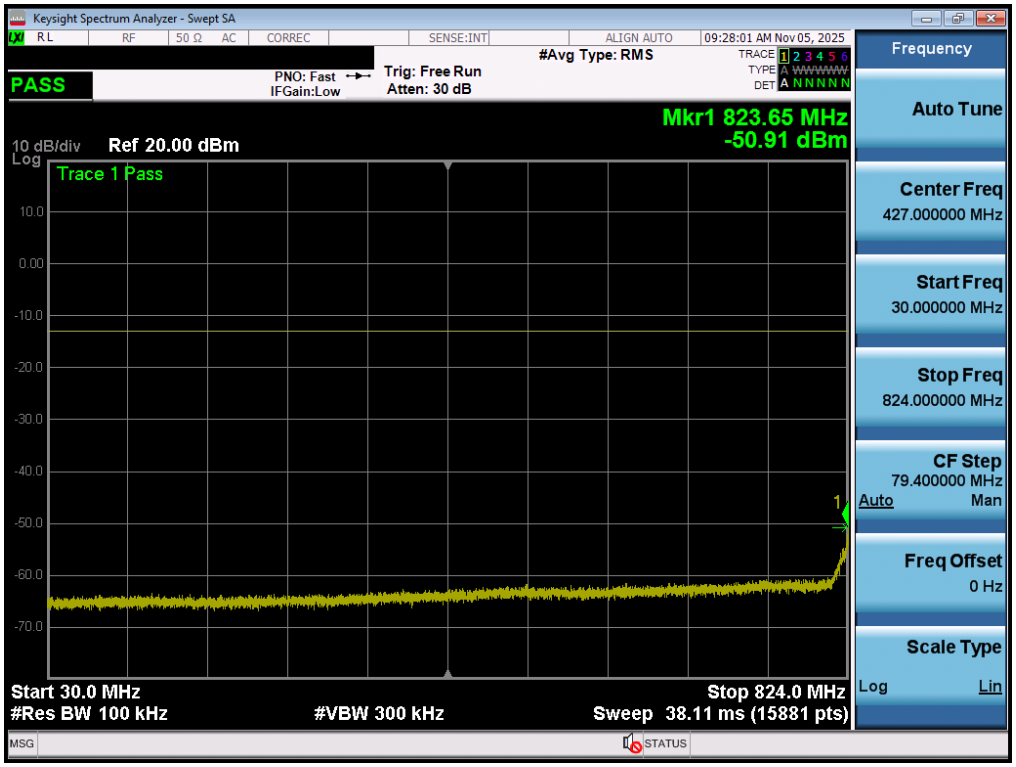


Plot 7-53. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - Low Channel – Ant1)



Plot 7-54. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - Mid Channel – Ant1)

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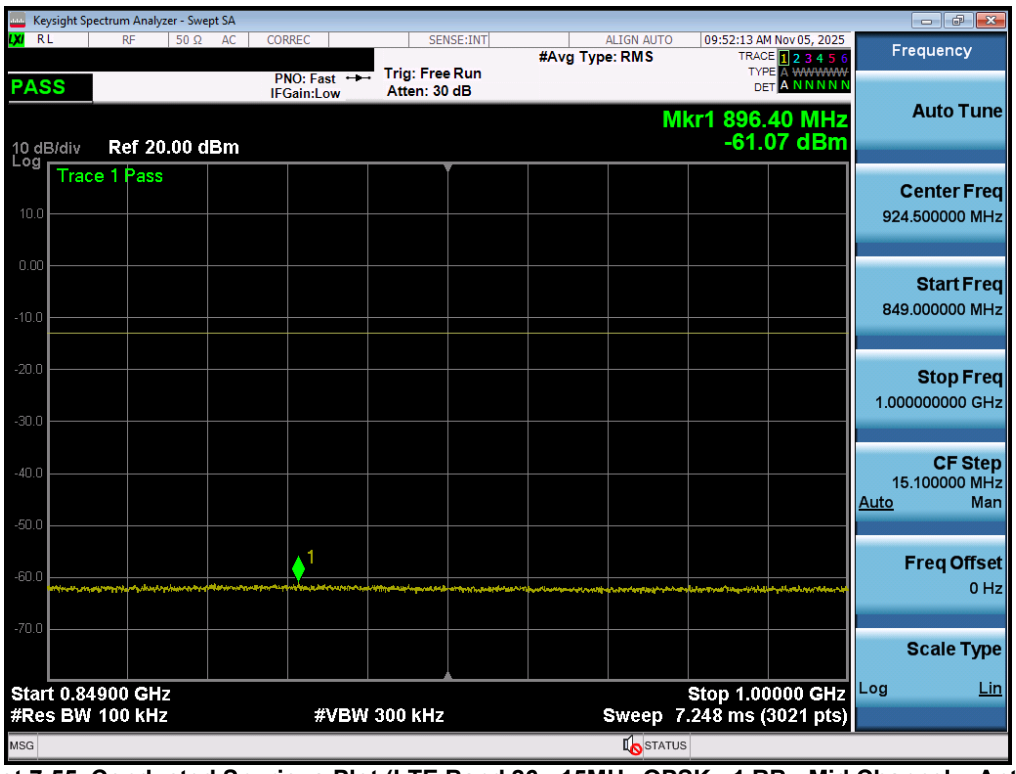

Plot 7-55. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - Mid Channel – Ant1)

Plot 7-56. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - Mid Channel – Ant1)

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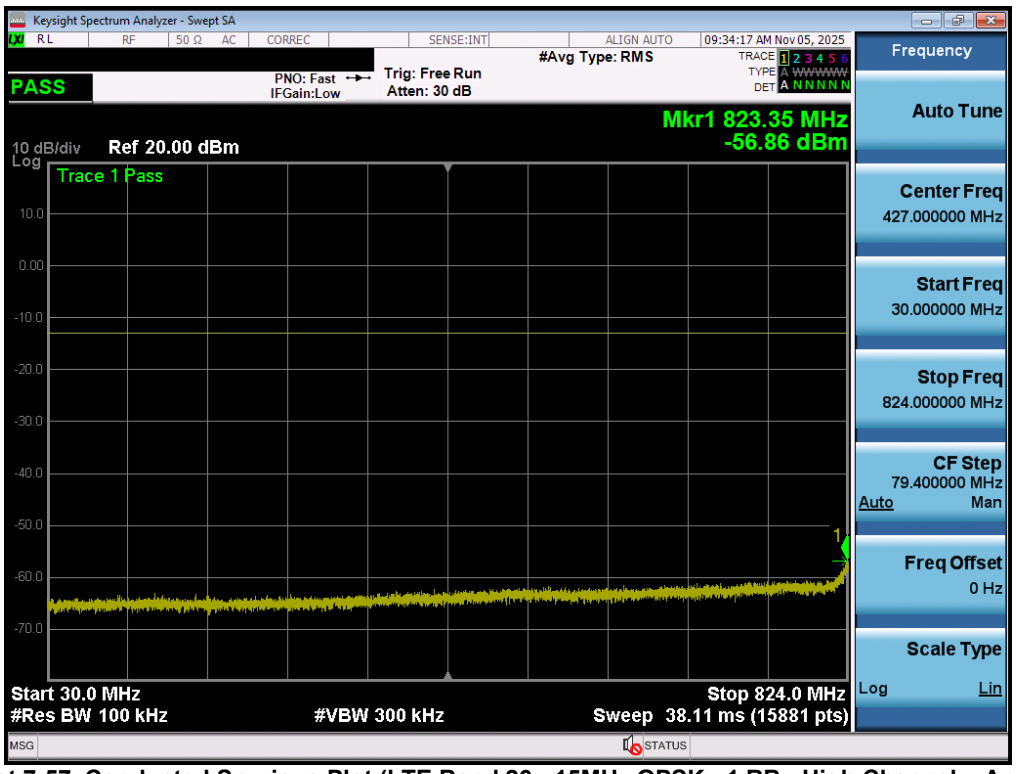
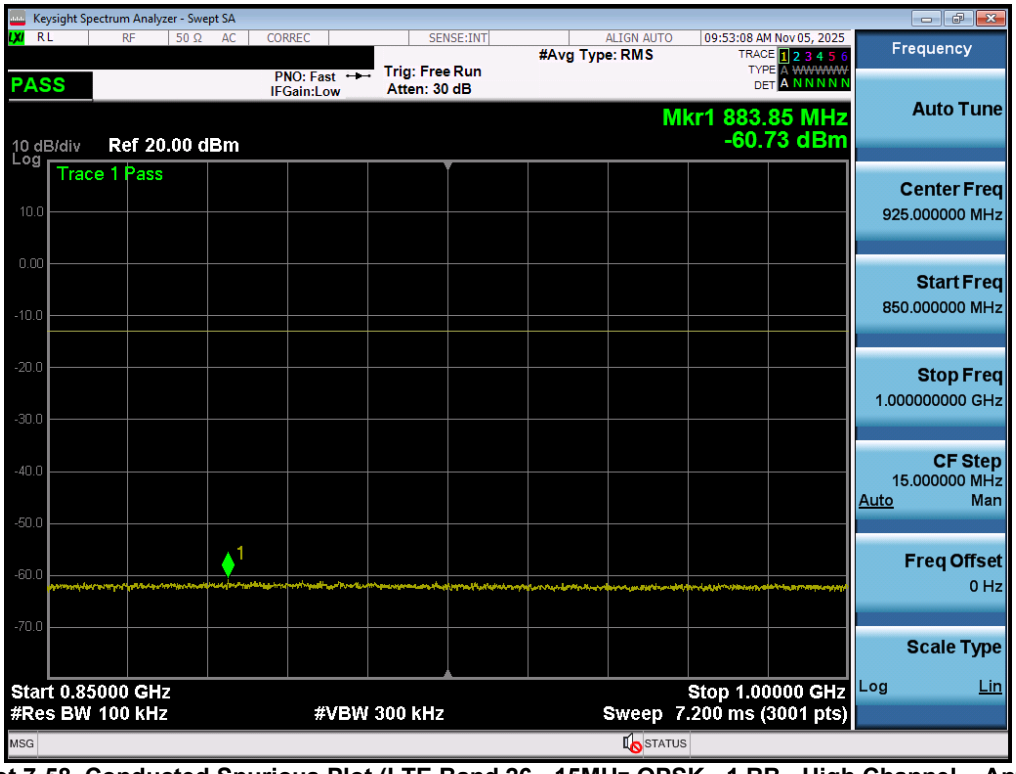


Plot 7-57. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - High Channel – Ant1)



Plot 7-58. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - High Channel – Ant1)

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Plot 7-59. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - 1 RB - High Channel – Ant1)

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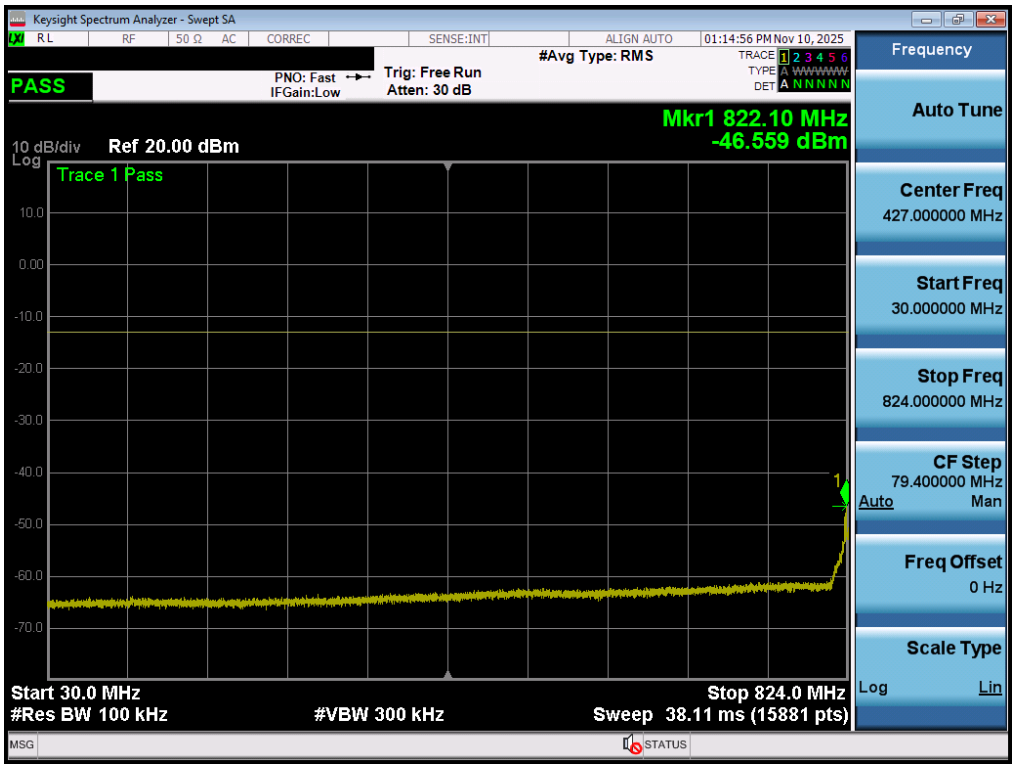
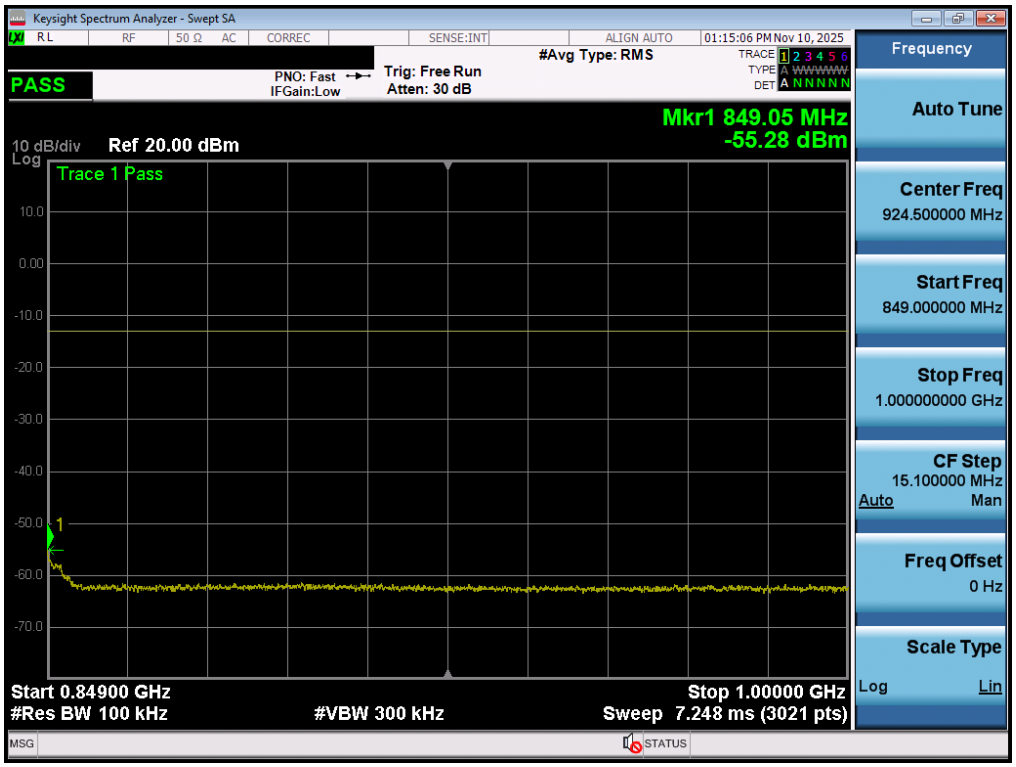
NR Band n5 – Ant1



Plot 7-60. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Ant1)



Plot 7-61. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Ant1)

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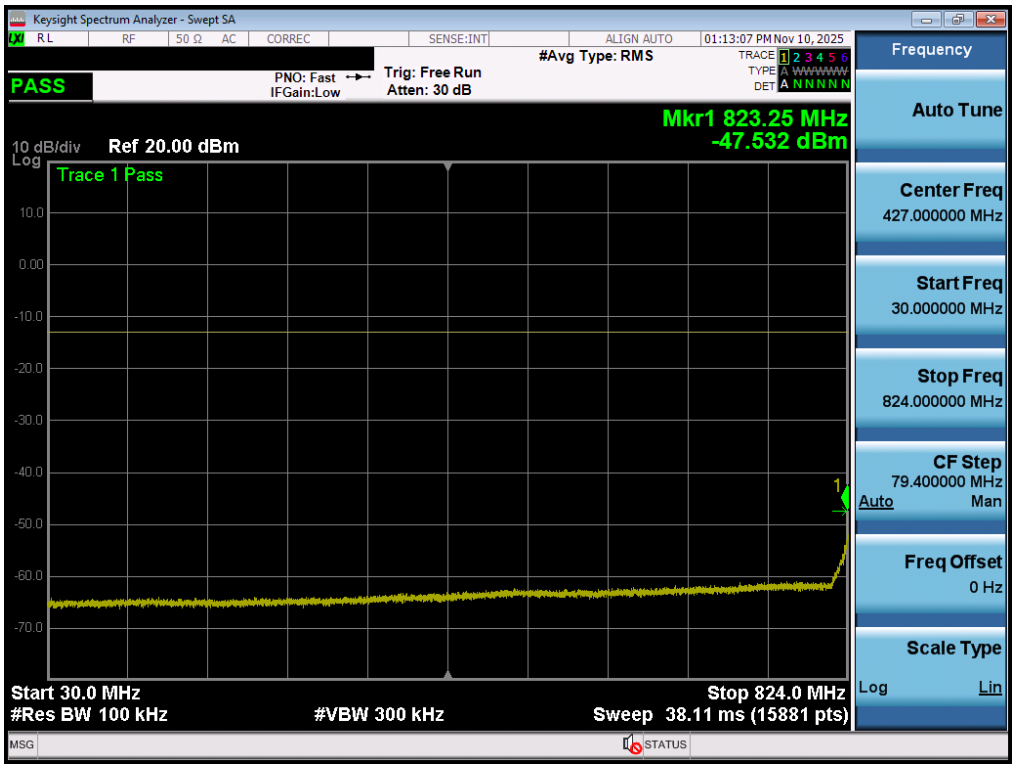
Plot 7-62. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Ant1)



Plot 7-63. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Ant1)

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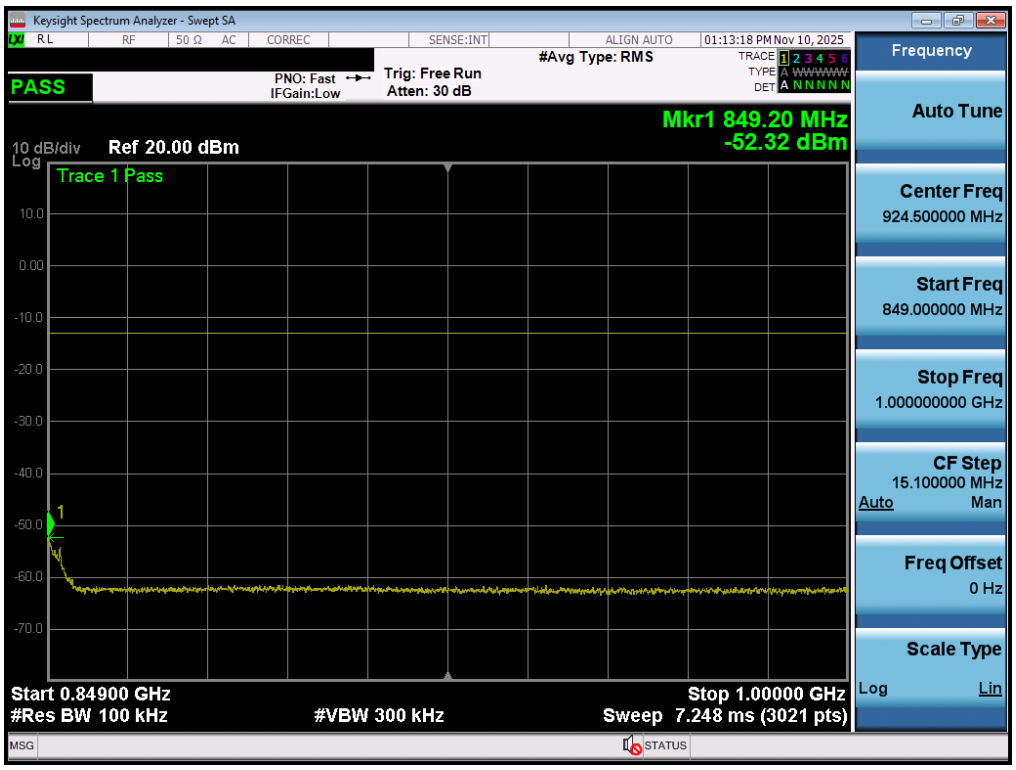

Plot 7-64. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Ant1)

Plot 7-65. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Ant1)

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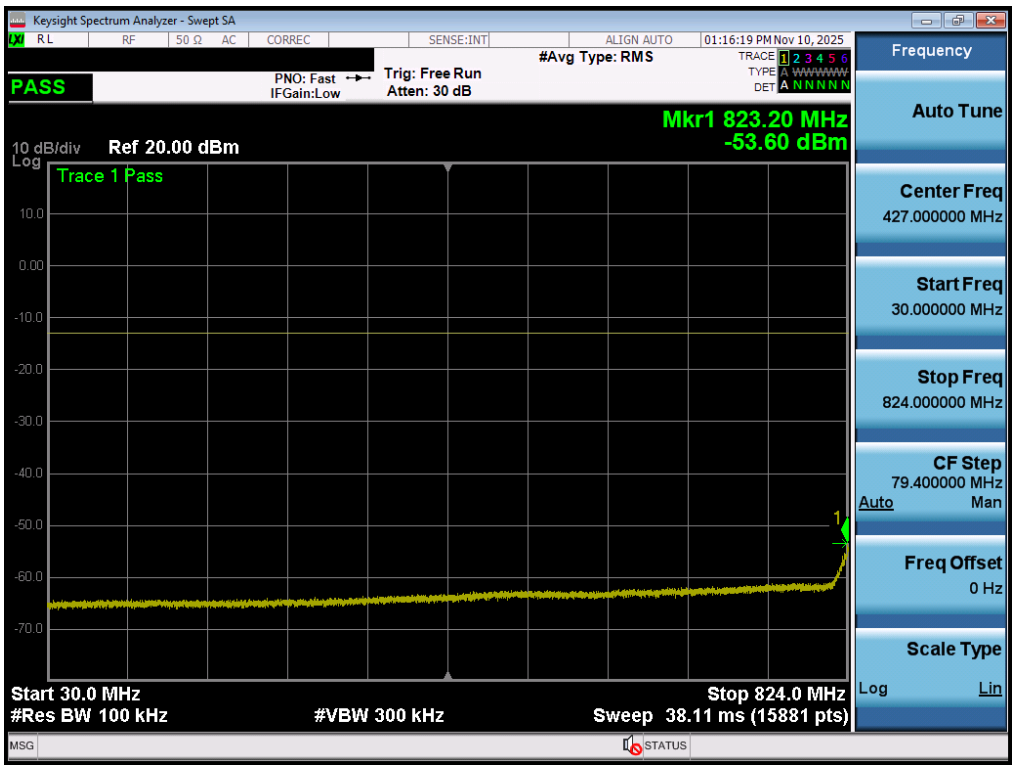
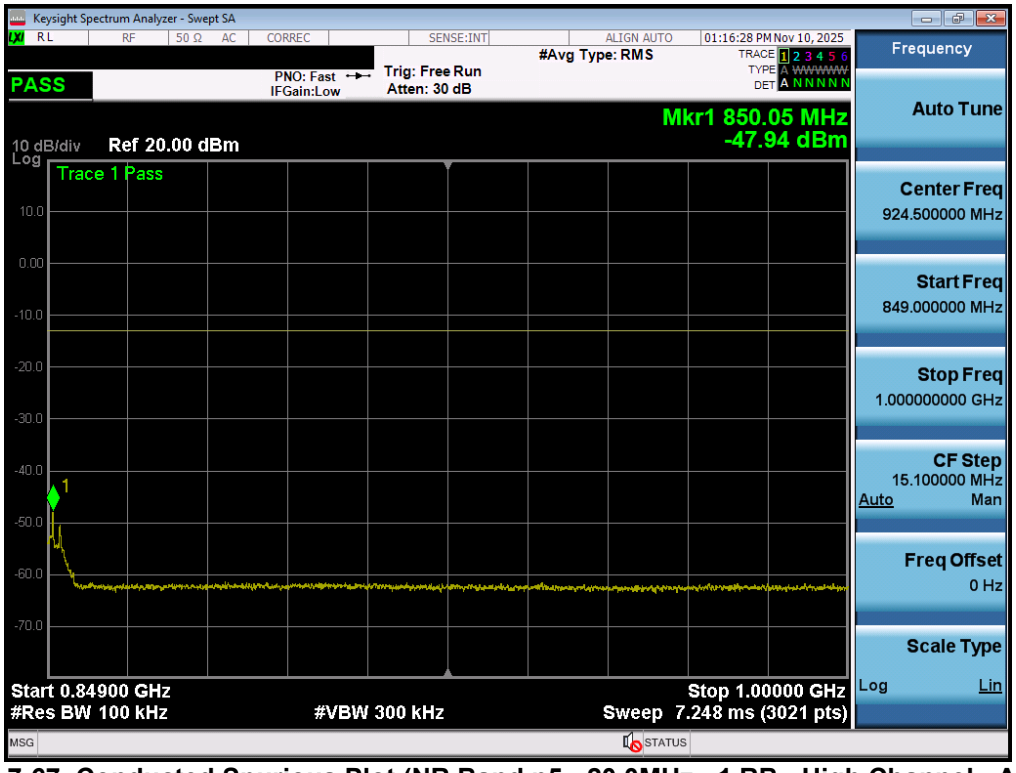


Plot 7-66. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Ant1)



Plot 7-67. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Ant1)

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Plot 7-68. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Ant1)

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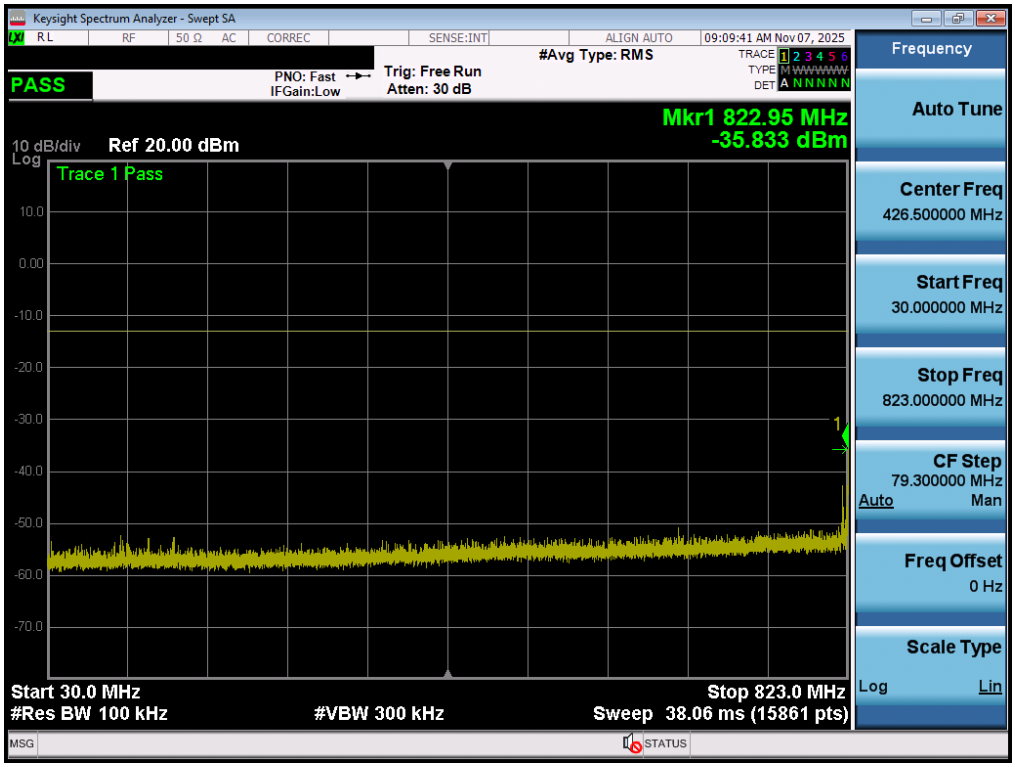
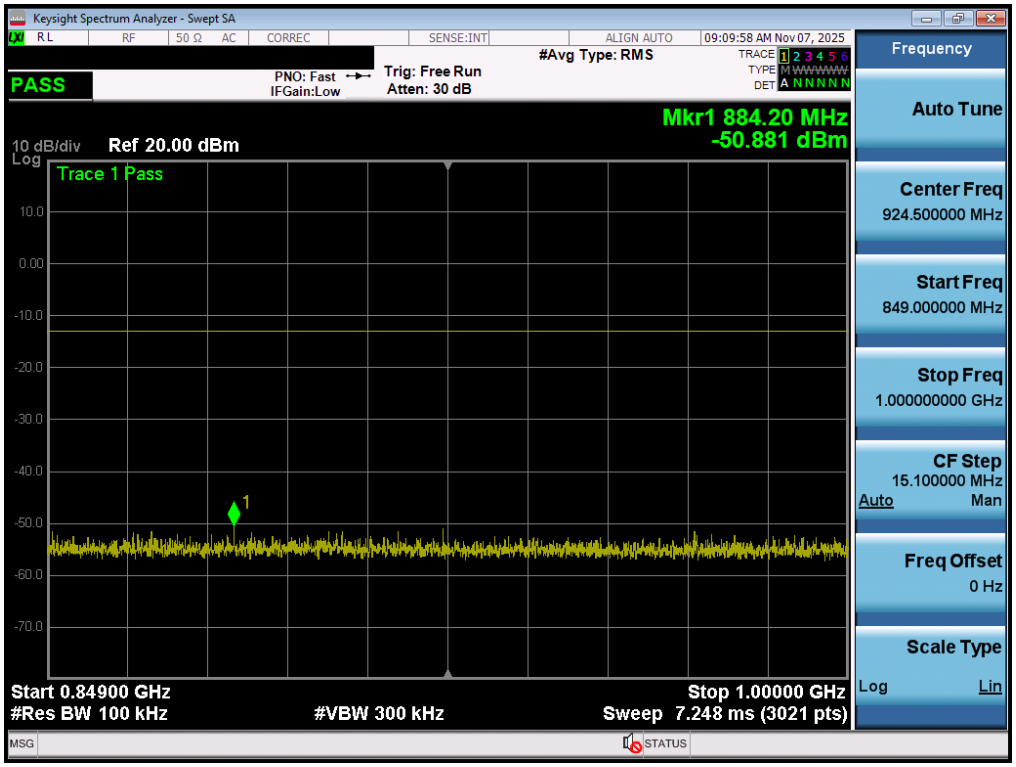
GSM/GPRS Cell – Ant1



Plot 7-69. Conducted Spurious Plot (GPRS Ch. 128 – Ant1)



Plot 7-70. Conducted Spurious Plot (GPRS Ch. 128 – Ant1)

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