

TEST REPORT

Report Number: R15980274-E16AV2

Applicant : Samsung Electronics Co Ltd
19 Chapin Rd., Building D
Pine Brook, NJ 07058, USA

Model : SM-S942U, SM-S942U1

FCC ID : A3LSMS942U

EUT Description : GSM/WCDMA/LTE/NR/SCS/NTN Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax/be, WPT and NFC

Test Standard(s) : FCC 47 CFR PART 2, PART 27
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-195 ISSUE 2

Date Of Issue:
2025-12-15

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-11-24	Initial Review	Noah Bennett
V2	2025-12-15	Corrected Various Typos and EIRP	Noah Bennett

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:

Samsung Electronics Co Ltd
19 Chapin Rd., Building D
Pine Brook, NJ 07058, USA

EUT DESCRIPTION:

GSM/WCDMA/LTE/NR/SCS/NTN Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be,
WPT and NFC

SERIAL NUMBERS:

YHI0909M, YHK0046M, YHK0177M

SAMPLE RECEIVE DATE:

2025-09-11

DATE TESTED:

2025-09-11 to 2025-10-31

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 2, PART 27	Complies
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-195 ISSUE 2	

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

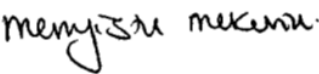
The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For

UL LLC By:

Prepared By:



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UL LLC

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for correctly integrating customer-provided data with measurements performed by UL LLC.

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
Equivalent Isotropic Radiated Power	27.50 (a) (3)	RSS195§5.5	Complies	
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS195	Complies	
Band Edge and Emission Mask	2.1051, 27.53(a)	RSS195§5.6 & §5.6.2	Complies	
Out of Band Emissions	2.1051, 27.53(a)	RSS195§5.6.2	Complies	
Frequency Stability	2.1055, 27.54	RSS195§5.4	Complies	
Peak-to-Average Ratio	-	-	Complies	
Field Strength of Spurious Radiation	2.1053, 27.53(a)	RSS195§5.6 & §5.6.2	Complies	

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.
FCC published lists of [measurement procedures](#) for compliance testing.
ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 27
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-195 Issue 2

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 2800 Suite Perimeter Park Dr. Suite B Morrisville, NC 27560, USA	US0067	27265	825374

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.52 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.88 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.24 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.37 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.17 dB
Occupied Channel Bandwidth	±0.39 %
Temperature	±0.9 °C
Supply voltages	±0.45 %
Time	±0.02 %

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/NR/SCS/NTN Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, WPT and NFC.

The EUT supports the following LTE and 5G NR Bands and their antenna configurations:

Mode and Bands	Config 0	Config 1
LTE Band30 & 5G NR n30	ANT F	ANT A

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the tables below contain the highest of all configurations, average conducted and peak EIRP output powers as follows:

LTE BAND 30 (CONFIG 0)

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	19.79	0.095	4.506	4505.9	4M51G7W
	16QAM			18.94	0.078	4.501	4500.9	4M50D7W
10.0	QPSK	2310.0	2310.0	19.59	0.091	8.995	8994.5	8M99G7W
	16QAM			20.04	0.101	8.984	8983.5	8M98D7W

LTE BAND 30 (CONFIG 1)

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	18.77	0.075	4.506	4505.9	4M51G7W
	16QAM			17.92	0.062	4.501	4500.9	4M50D7W
10.0	QPSK	2310.0	2310.0	19.99	0.100	8.995	8994.5	8M99G7W
	16QAM			19.75	0.094	8.984	8983.5	8M98D7W

5G NR n30 (CONFIG 0)

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	2307.5	2312.5	19.26	0.084	4.508	4508.1	4M51G7W
	16QAM			17.96	0.063	4.535	4534.6	4M53D7W
10.0	BPSK	2310.0	2310.0	18.25	0.067	8.975	8975.1	8M98G7W
	16QAM			17.10	0.051	9.009	9008.7	9M01D7W

5G NR n30 (CONFIG 1)

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	2307.5	2312.5	17.96	0.063	4.508	4508.1	4M51G7W
	16QAM			17.16	0.052	4.535	4534.6	4M53D7W
10.0	BPSK	2310.0	2310.0	17.86	0.061	8.975	8975.1	8M98G7W
	16QAM			17.14	0.052	9.009	9008.7	9M01D7W

6.3. MAXIMUM ANTENNA GAIN

The antenna(s) gain, as provided by the manufacturer' are as follows:

Frequency Band	ANT F Antenna Gain (dBi)	ANT A Antenna Gain (dBi)
LTE Band 30 / 5G NR n30 2305 – 2315 MHz	-3.9	-2.2

6.4. WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based upon an engineering evaluation made on pre-tuned conducted average power provided by the manufacturer. The modulations with the highest output power were selected as worst-case. Conducted tests were performed on the worst-case antenna port per band. Full radiated Emissions Testing on each antenna was performed and reported.

The following is the worst-case antenna port, and modulation, as tested:

GSM & WCDMA Bands	Worst-Case Antenna Port	Worst-Case Modulation
LTE Band 30, 5G NR n30	ANT A	QPSK (LTE) BPSK (FR1)

The EUT was investigated in three orthogonal orientations X/Y/Z on both Low Band (Fundamental Below 1GHz) Mid Band (Fundamental between 1-3GHz) and High Band (Fundamental above 3GHz) over all antennas to find the worst-case orientation. For Simultaneous Tx scans in which there are two or more F_c ranges with different worst-case orientations, scans were performed in the orientation with the highest output power, and sufficient margin was added to cover other orientations. The following are the worst-case orientations:

LTE and 5G NR Band(s)	Config 0 Orientation	Config 1 Orientation
Low Band ($F_c < 1\text{GHz}$)	Z	Y
Mid Band ($1\text{GHz} < F_c < 3\text{GHz}$)	Z	-
High Band ($F_c > 3\text{GHz}$)	-	-

The EUT was tested while connected to AC Lines via charging cable and brick to represent worst case emissions.

Worst Case emissions from 9kHz-30Mhz, 30-1000MHz, 18-26.5GHz, and 26.5GHz-40GHz were done on the modes with the highest pre-tuned conducted average power per antenna. No emissions within 20dB were observed.

Representative Model	Difference	Derivative Model
		SM-S942U1
SM-S942U	Hardware	Same as SM-S942U
	Software	Different UI

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Flextronics	G-1000-US	Na	na

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	<3m	Phone to power adapter

TEST SETUP

The EUT was connected to a base station simulator and set to transmit at max power for LTE and 5G NR testing

SETUP DIAGRAM

Please see R15980274-EP1 for Setup Diagrams and Setup Photos.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
88761	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-10-05	2025-10-05
	Gain-Loss Chains				
91977	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
	Receiver & Software				
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
239540	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
213025	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	2025-01-14	2026-01-14
169106 (BRF008)	1710-1785MHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50713-01	2025-03-13	2026-03-13
169108 (BRF010)	1.85-1.97GHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50714-01	2025-03-13	2026-03-13
231408 (BRF011)	2.495-2.690GHz notch filter, 2W, Fhigh = 18GHz	Micro-Tronics	BRM50709-01	2025-03-13	2026-03-13
169109 (BRF012)	3.4-3.8GHz notch filter, 2W, Fhigh = 18GHz	Micro-Tronics	BRM50711-01	2025-03-13	2026-03-13
82635 (HPF009)	1GHz high-pass filter, 2W, Fhigh =10GHz	Micro-Tronics	HPM17672	2025-03-13	2026-03-13

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-02-07	2026-02-07
	Gain-Loss Chains				
91979	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-05-12	2026-05-12
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
213025	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	2025-01-14	2026-01-14
169108 (BRF010)	1.85-1.97GHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50714-01	2025-03-13	2026-03-13
82635 (HPF009)	1GHz high-pass filter, 2W, Fhigh =10GHz	Micro-Tronics	HPM17672	2025-03-13	2026-03-13

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
	1-18 GHz				
206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-04-09	2026-04-09
	Gain-Loss Chains				
207639	Gain-loss string: 25-1000MHz	Various	Various	2025-06-13	2026-06-13
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-13
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-21
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
213025	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	2025-01-14	2026-01-14
212167	Wideband Radio Communications Tester	Anritsu	MT8821C	2023-06-05	2024-06-05
	Substitution Meas. Equip				
CBL252986-002	SMA cable	Huber+Suhner	Sucoflex 104A	2025-09-16	2026-09-16
8923	Dipole Antenna	EMCO	3121C-DB-4	N/A	
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-07-15	2026-07-15
196940	6dB, DC-18GHz, 5W	Mini-Circuits	BW-N6W5	N/A	
92309	Signal Generator	Keysight	83640B	N/A	

Wireless Conducted Measurement Equipment.

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Additional Equipment used				

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
90411	Spectrum Analyzer MY54490314	Keysight Technologies	N9030A	2025-07-30	2026-07-30
212967	Wideband Radio Communications Tester 170733	Rohde and Schwarz	CMW500	2025-02-07	2026-02-07
222797	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	2025-02-21	2026-02-28
262469	Humidity and Temperature Probe	Control Company	15-077-963	2024-04-28	2026-04-28

Test Equipment Used - Wireless Conducted Attenuators, Cables, and Couplers

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Attenuators				
226554	20dB Attenuator	CentricRF	C18S2-20	2025-03-19	2026-03-19
226552	20dB Attenuator	CentricRF	C18S2-20	2025-03-19	2026-03-19
	Cables				
80865	SMA Cable	Huber + Suhner	104PEA	2025-09-05	2026-09-05
247384	SMA Cable	Huber + Suhner	104PEA	2025-09-05	2026-09-05
246257	SMA Cable	Huber + Suhner	104PEA	2025-09-05	2026-09-05
	Couplers				
238018 (CPL003-SAR)	Ultra-Wideband Directional Coupler 0.5-18GHz	Mini-Circuits	ZUDC10-183+	2025-04-48	2026-04-28

NOTES:

- * Testing is completed before equipment expiration date.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date

8. CONDUCTED TEST RESULTS

8.1 OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS195

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was teste.

LTE BAND 30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 30	5MHz, QPSK	25/0	2310.0	4.5059	5.134
	5MHz, 16QAM			4.5009	5.197
	10MHz, QPSK	50/0		8.9945	9.980
	10MHz, 16QAM			8.9835	10.120
	10MHz, QPSK	1/0		0.2602	0.431

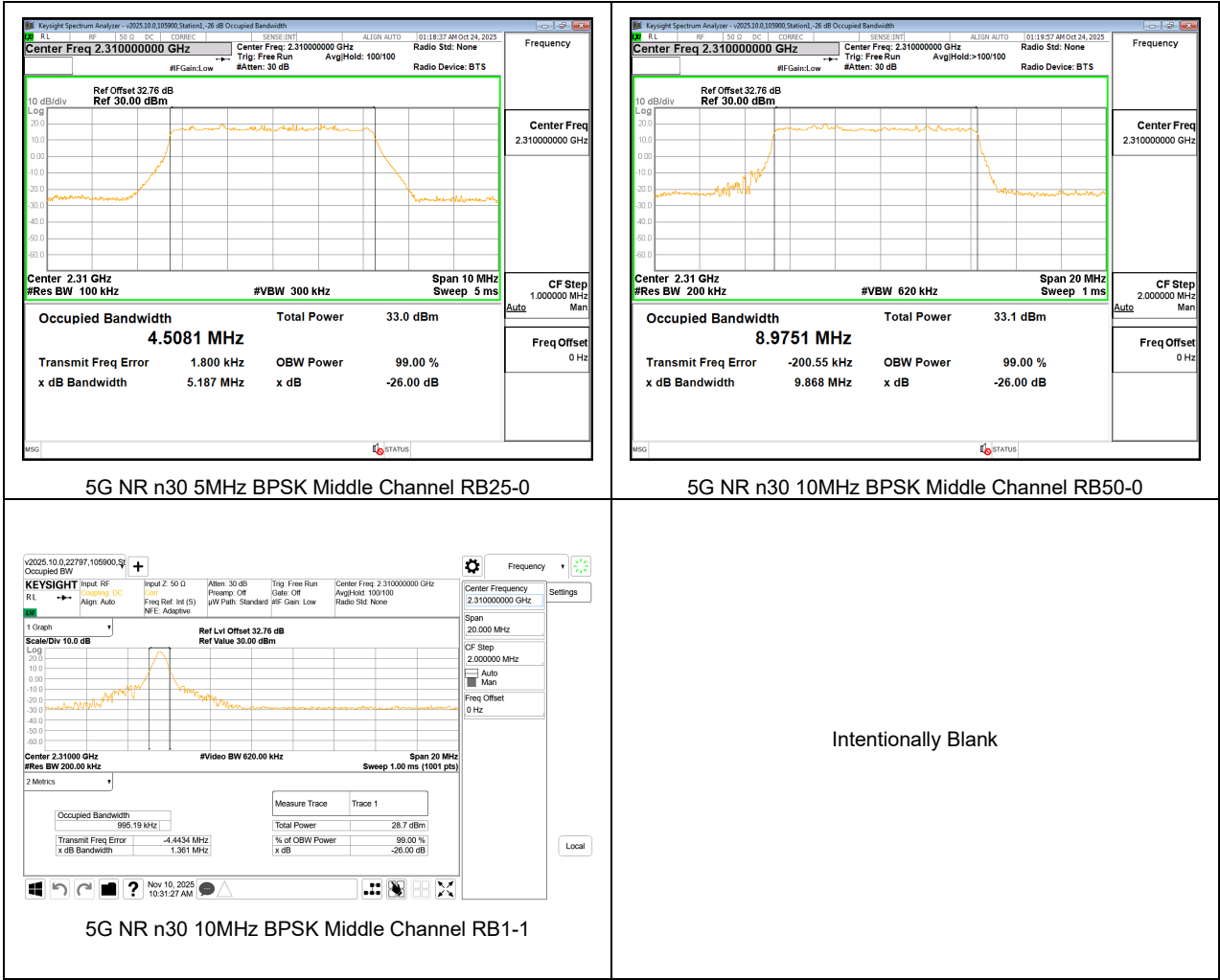
5G NR n30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n30	5MHz, BPSK	25/0	2310.0	4.5081	5.187
	5MHz, 16QAM			4.5346	5.217
	10MHz, BPSK	50/0		8.9751	9.868
	10MHz, 16QAM			9.0087	9.787
	10MHz, BPSK	1/1		0.9952	1.361

8.1.1. LTE BAND 30



8.1.2. 5G NR n30



8.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

ISED: RSS195§5.6

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

RSS195§5.6.2 Mobile, Portable and Low-Power Fixed Subscriber Equipment

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P (dBW), by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

According to [Notice 2022-CEB001](#) In order to demonstrate compliance with the unwanted emission limit of -13 dBm/MHz, the power level measured within the first 1 MHz immediately adjacent to the channel edges shall be integrated over the full 1 MHz bandwidth with a resolution as close as possible to 1% (no less than 1%) of the occupied bandwidth.

TEST PROCEDURE

For Spectrum Emission Mask plots, the spectrum analyzer is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (BAND 30)

(5) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.*, 1 MHz). 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 emissions are attenuated at least 26 dB below the transmitter power.

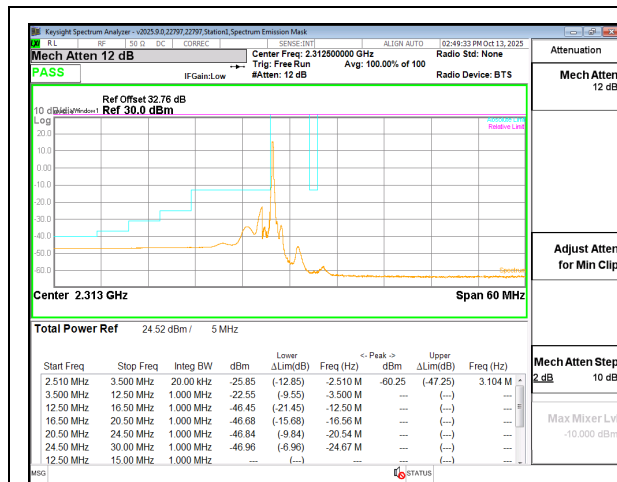
To show compliance with this requirement the spectrum analyzer is configured to measure the adjacent channel power for the frequency blocks adjacent to the channel edge. The integration of power is performed over a bandwidth > 1MHz and if the measurement is less than -13dBm when measured over more than 1MHz then the power must be less than -13dBm/MHz.

RESULTS

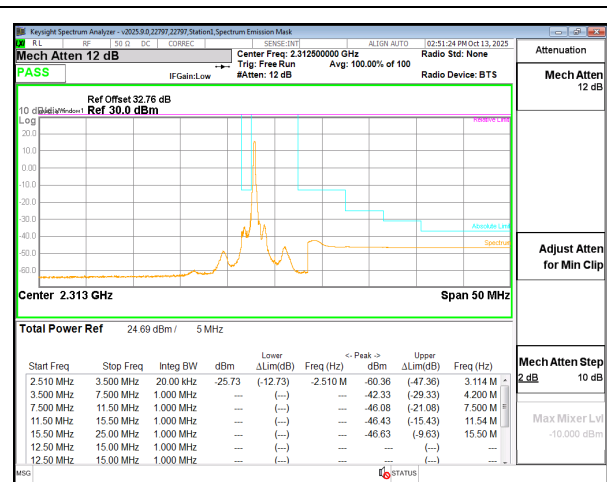
See the following pages.

8.2.1. LTE BAND 30 EMISSION MASK

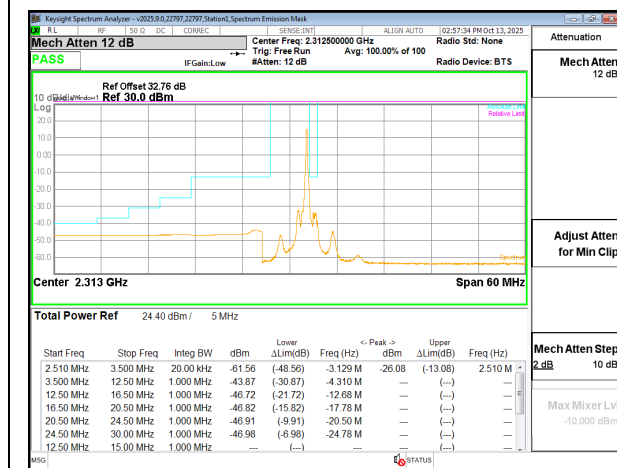




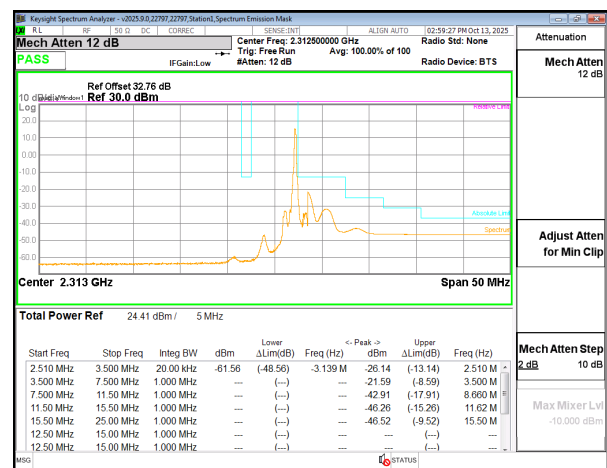
LTE B30 5MHz QPSK High Channel RB1-0 (Low side)



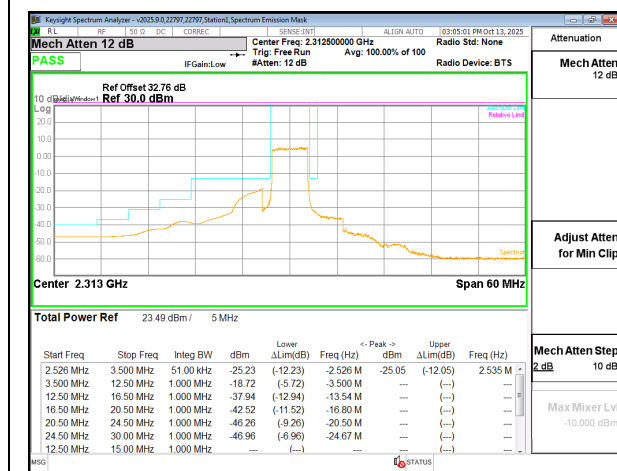
LTE B30 5MHz QPSK High Channel RB1-0 (High side)



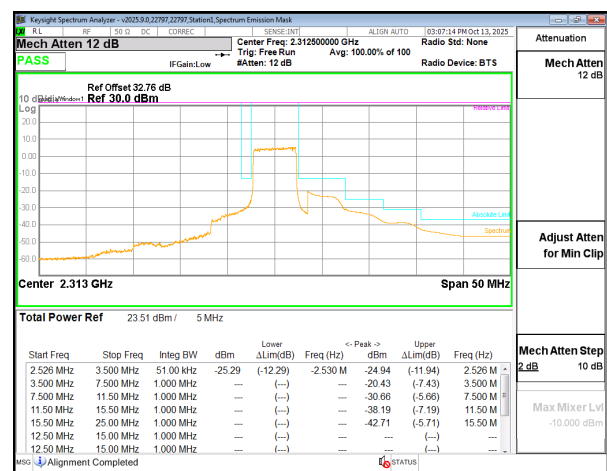
LTE B30 5MHz QPSK High Channel RB1-24 (Low side)



LTE B30 5MHz QPSK High Channel RB1-24 (High side)



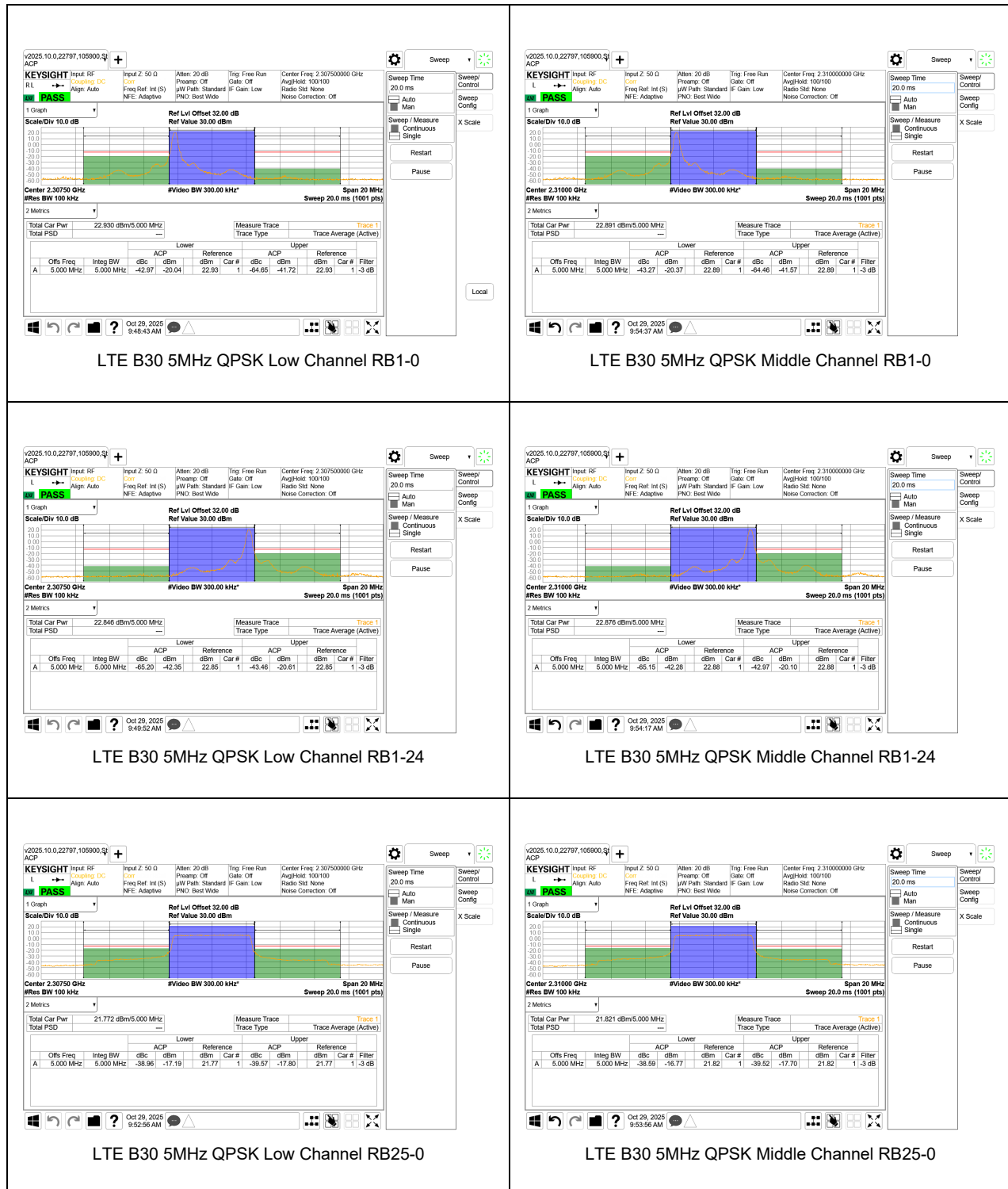
LTE B30 5MHz QPSK High Channel RB25-0 (Low side)

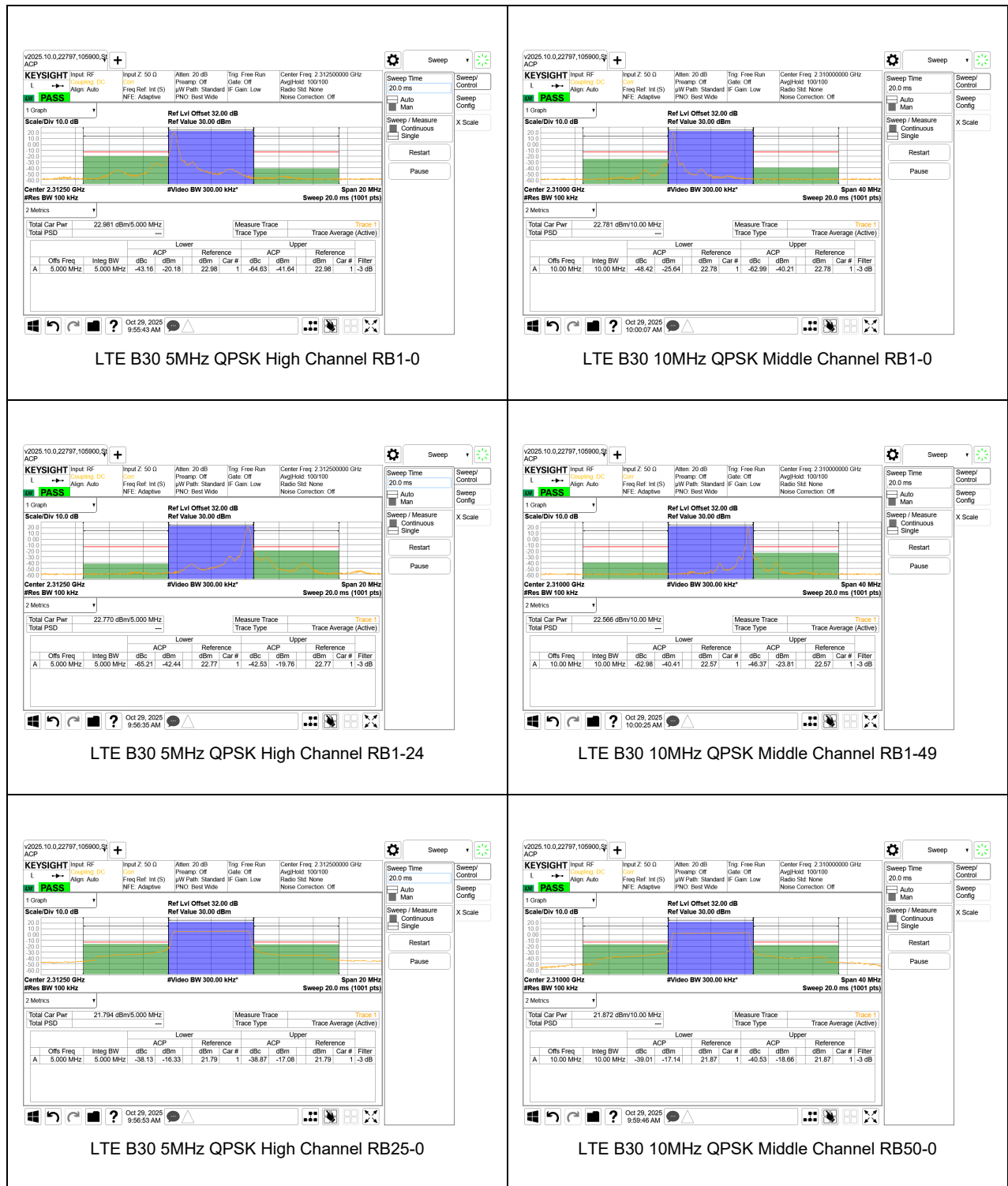


LTE B30 5MHz QPSK High Channel RB25-0 (High side)

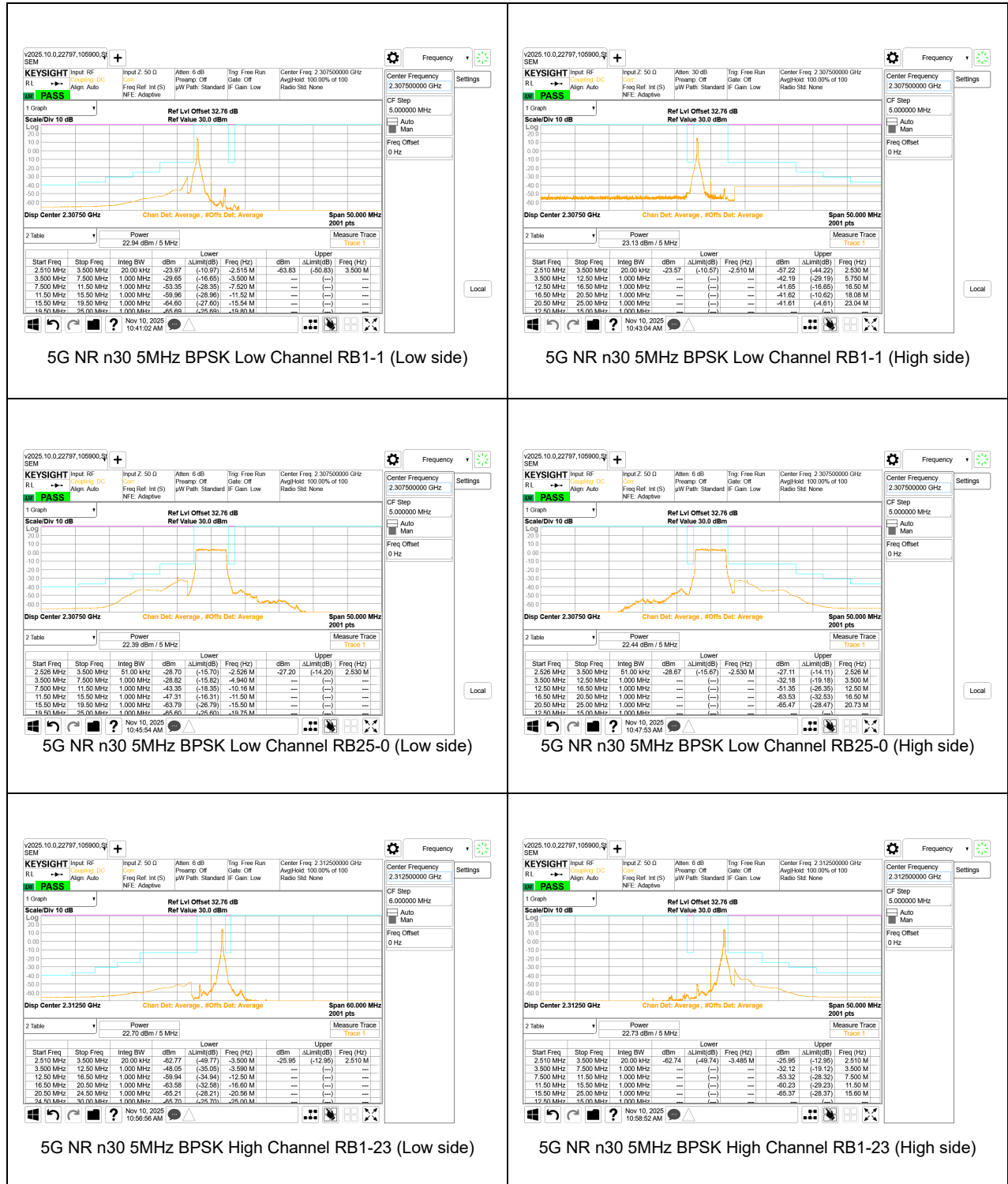


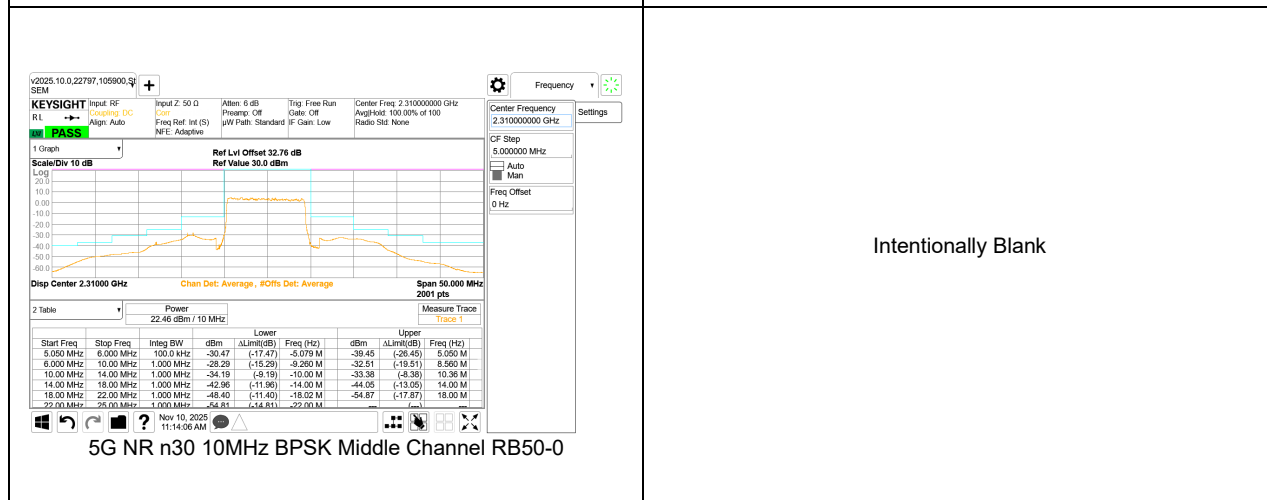
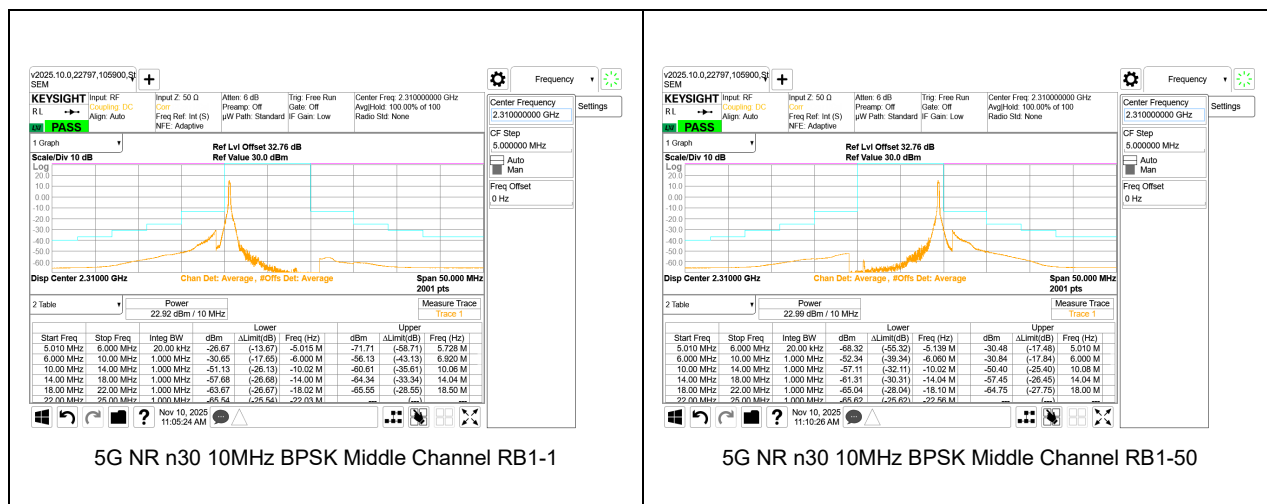
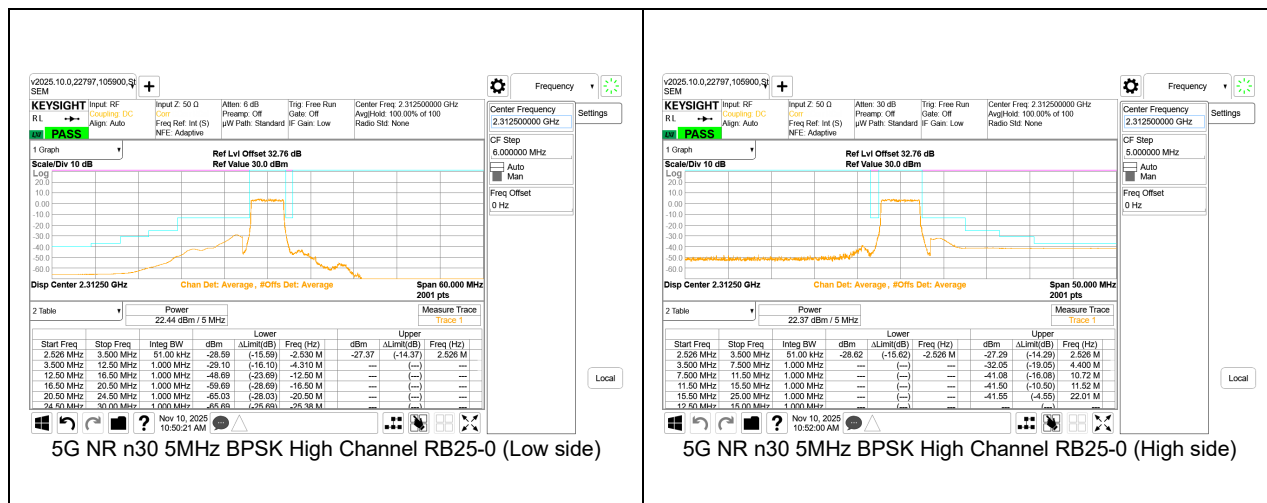
8.2.2. LTE BAND 30 ADJACENT CHANNEL POWER



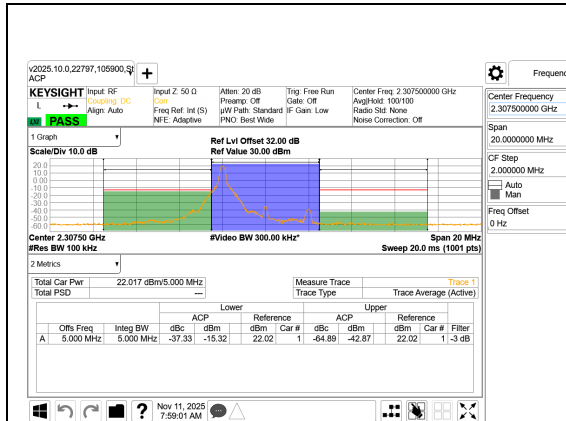


8.2.3. 5G NR n30 EMISSION MASK

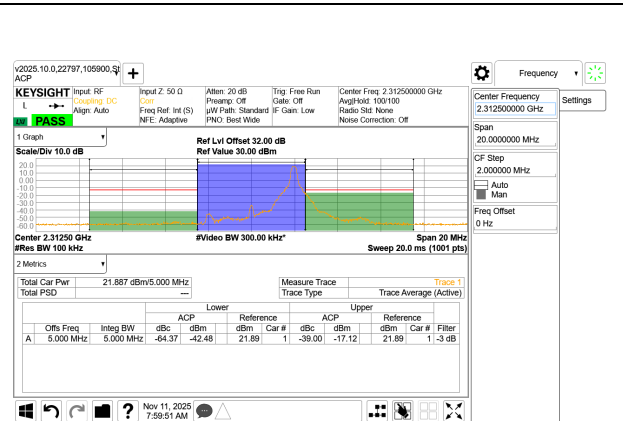




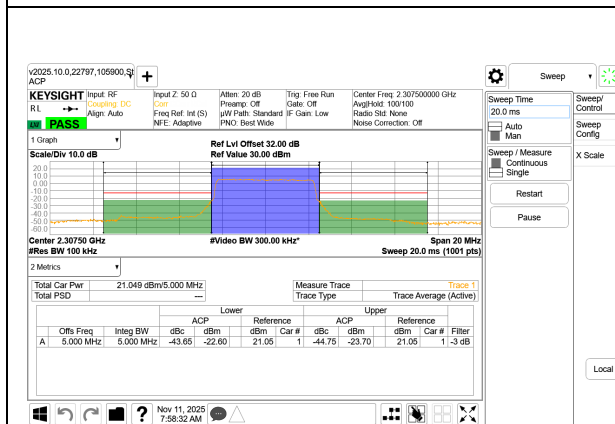
8.2.4. 5G NR n30 ADJACENT CHANNEL POWER



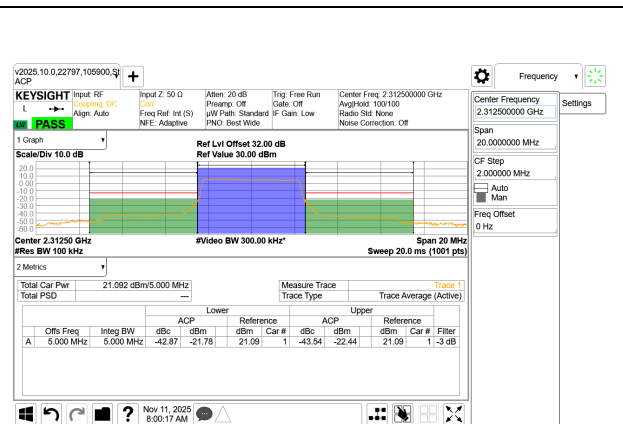
5G NR n30 5MHz BPSK Low Channel RB1-1



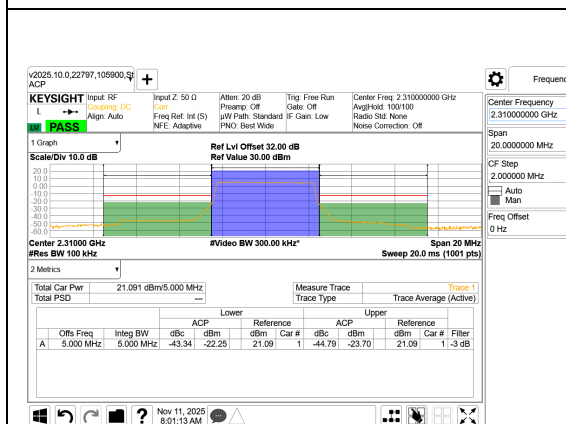
5G NR n30 5MHz BPSK High Channel RB1-23



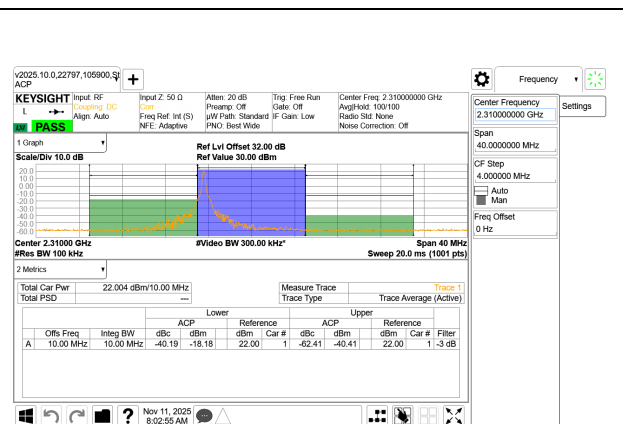
5G NR n30 5MHz BPSK Low Channel RB25-0



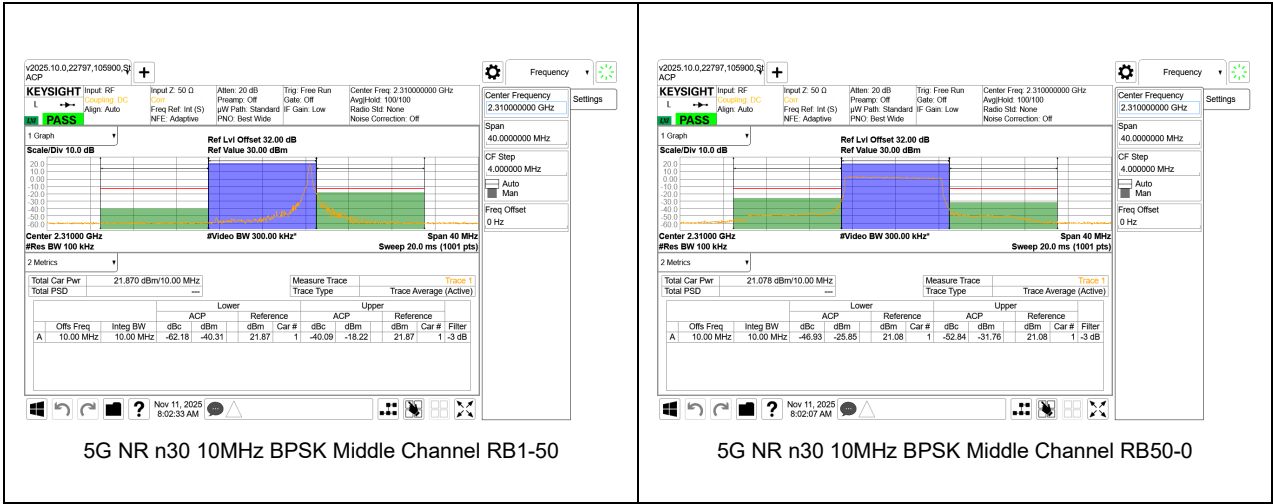
5G NR n30 5MHz BPSK High Channel RB25-0



5G NR n30 5MHz BPSK Middle Channel RB25-0



5G NR n30 10MHz BPSK Middle Channel RB1-1



8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §27.53 (a)

The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

RSS195§5.6.2

The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

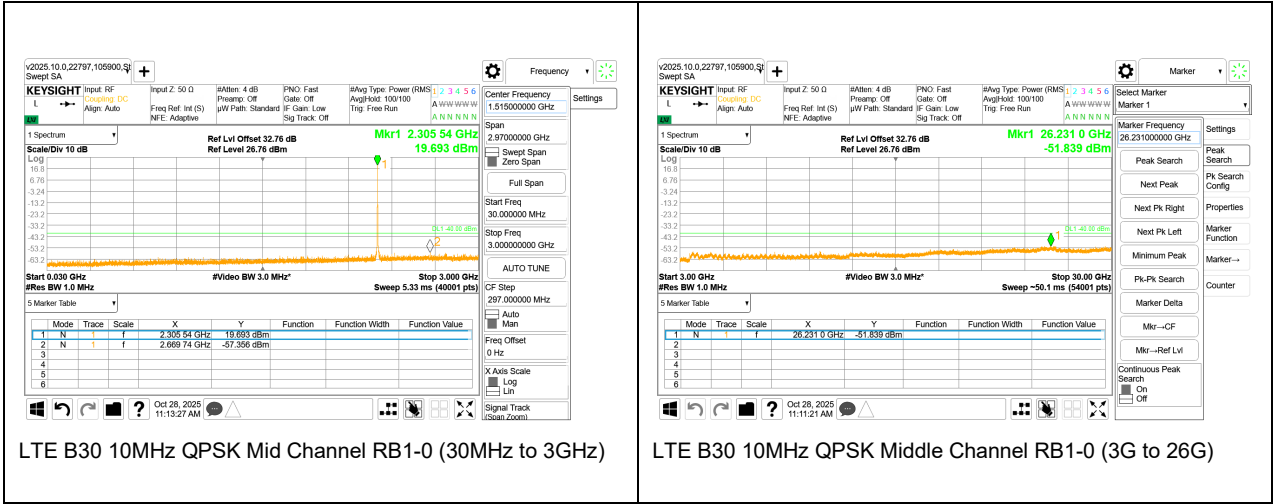
For each out of band emissions measurement:

- Set display line at required limit.
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

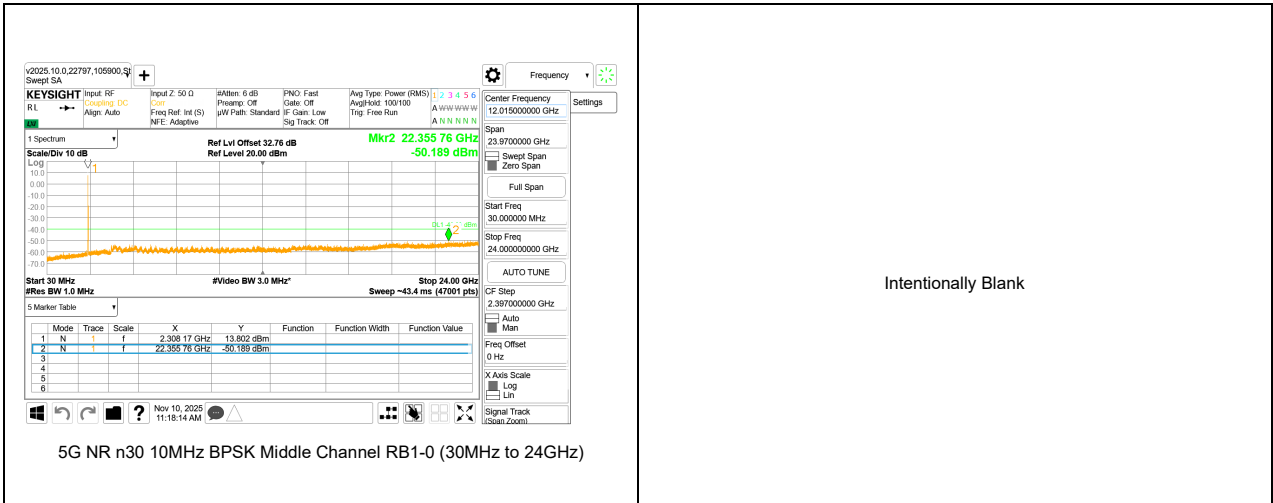
RESULTS

See the following pages.

8.3.1 LTE BAND 30



8.3.2. 5G NR n30



8.4. FREQUENCY STABILITY

LIMITS

FCC: §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

ISED: RSS195§5.4

The applicant shall ensure frequency stability by showing that the occupied bandwidth is maintained within the range of the operating frequency blocks when testing under the temperature and supply voltage variations specified for the frequency stability measurement in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 100%)

Normal, 3.89VDC

End Voltage, 3.69VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

8.4.1. LTE BAND 30 (QPSK 10MHz BANDWIDTH)

Test Engineer ID:	105900;22797	Test Date:	2025-10-16
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Band	30	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2305	2315			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	2305.4113	2314.6038			
Extreme (50°C)		2305.4113	2314.6038	-9.1	-0.004	Yes
Extreme (40°C)		2305.4113	2314.6038	-4.7	-0.002	Yes
Extreme (30°C)		2305.4113	2314.6038	-7.9	-0.003	Yes
Extreme (10°C)		2305.4113	2314.6038	-2.6	-0.001	Yes
Extreme (0°C)		2305.4113	2314.6038	-3.3	-0.001	Yes
Extreme (-10°C)		2305.4113	2314.6038	4.0	0.002	Yes
Extreme (-20°C)		2305.4113	2314.6038	5.7	0.002	Yes
Extreme (-30°C)		2305.4113	2314.6038	3.3	0.001	Yes
20°C	End Point Voltage	2305.4113	2314.6038	-3.3	-0.001	Yes

8.4.2. 5G NR n30 (BPSK 10MHz BANDWIDTH)

Test Engineer ID:	105900;22797	Test Date:	2025-10-16
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Band	30	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2305	2315			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	2305.2250	2314.4050			
Extreme (50°C)		2305.2250	2314.4050	-5.3	-0.002	Yes
Extreme (40°C)		2305.2250	2314.4050	-2.7	-0.001	Yes
Extreme (30°C)		2305.2250	2314.4050	-4.4	-0.002	Yes
Extreme (10°C)		2305.2250	2314.4050	-7.8	-0.003	Yes
Extreme (0°C)		2305.2250	2314.4050	-8	-0.003	Yes
Extreme (-10°C)		2305.2250	2314.4050	-8.1	-0.004	Yes
Extreme (-20°C)		2305.2250	2314.4050	-6.4	-0.003	Yes
Extreme (-30°C)		2305.2250	2314.4050	-1.8	-0.001	Yes
20°C	End Point Voltage	2305.2250	2314.4050	-3.4	-0.001	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

Config 0 to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

TEST PROCEDURE

The EUT was connected to a Wideband Power Sensor to measure Peak and Average Output power.

8.5.1. LTE BAND 30

Test Engineer ID:	33499	Test Date:	2025-10-10
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 30	5MHz	2310.0	25	0	QPSK	26.57	22.07	4.50
					16QAM	27.39	21.25	6.14
	10MHz	50	0	QPSK	27.13	22.14	4.99	
					16QAM	27.31	21.10	6.21
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.2. 5G NR n30

Test Engineer ID:	33499	Test Date:	2025-10-10
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n30	5MHz	2310.0	25	0	BPSK	25.931	22.14	3.80
					16QAM	26.863	20.58	6.28
	10MHz	50	0	BPSK	26.226	22.10	4.13	
					16QAM	26.787	20.54	6.25
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

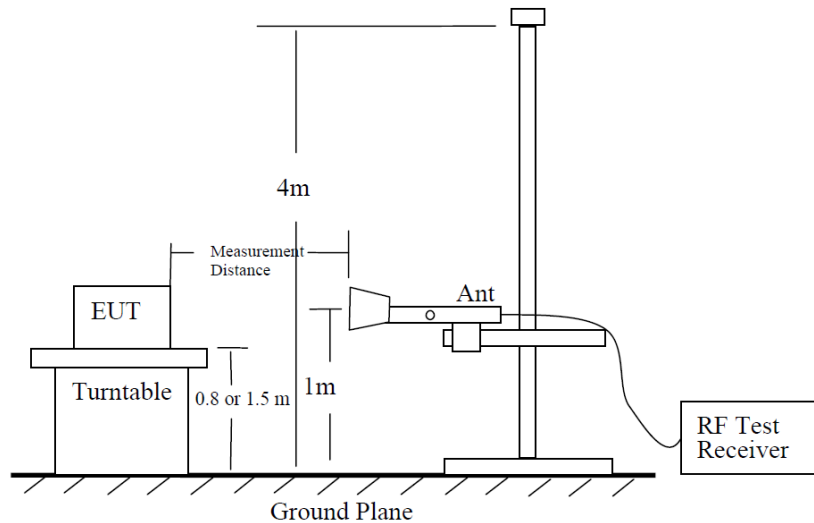


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

9.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1046, §27.50

ISED: RSS195§5.5

LIMITS

27.50(a)(3)

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

RSS139§5.5

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

TEST PROCEDURE

ANSI / TIA / EIA 603-E (2016), Clause 2.2.17; PSA setting reference to 971168 D01

For average power measurements:

- a) Set span to at least 1.5 times the OBW;
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz;
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set number of points in sweep $\geq 2 \times$ span / RBW;
- e) Sweep time = auto-couple;
- f) Detector = RMS (power averaging);
- g) Use free run trigger If burst duty cycle ≥ 98 ;
- h) Add a duty cycle correction factor ($10\log(\text{DC})$) if burst duty cycle < 98 ;
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power

TEST RESULTS

9.1.1 LTE BAND 30 5MHZ

High Frequency Substitution Measurement UL Morrisville Chamber 4									
Company:		RFSL							
Project #:		15980274							
Date:		2025-09-28 thru 2025-10-28							
Test Engineer:		19289							
Configuration:		EUT Only							
Mode:		TX, 2305-2315MHZ BAND LTE30 5MHZ QPSK CONFIG0							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	21.15	H	8.85	5.14		17.44	23.98	-6.54	LOW RB 1-0
2307.50	19.54	V	8.85	5.14		15.83	23.98	-8.15	LOW RB 1-0
2307.50	21.09	H	8.85	5.14		17.38	23.98	-6.60	MID RB 1-12
2307.50	19.38	V	8.85	5.14		15.67	23.98	-8.31	MID RB 1-12
2307.50	20.97	H	8.85	5.14		17.26	23.98	-6.72	HIGH RB 1-24
2307.50	19.05	V	8.85	5.14		15.34	23.98	-8.64	HIGH RB 1-24
2310.00	23.39	H	8.85	5.14		19.68	23.98	-4.30	LOW RB 1-0
2310.00	20.67	V	8.85	5.14		16.96	23.98	-7.02	LOW RB 1-0
2310.00	23.50	H	8.85	5.14		19.79	23.98	-4.19	MID RB 1-12
2310.00	20.71	V	8.85	5.14		17.00	23.98	-6.98	MID RB 1-12
2310.00	23.43	H	8.85	5.14		19.72	23.98	-4.26	HIGH RB 1-24
2310.00	20.53	V	8.85	5.14		16.82	23.98	-7.16	HIGH RB 1-24
2312.50	23.41	H	8.85	5.14		19.70	23.98	-4.28	LOW RB 1-0
2312.50	21.77	V	8.85	5.14		18.06	23.98	-5.92	LOW RB 1-0
2312.50	23.48	H	8.85	5.14		19.77	23.98	-4.21	MID RB 1-12
2312.50	21.71	V	8.85	5.14		18.00	23.98	-5.98	MID RB 1-12
2312.50	23.37	H	8.85	5.14		19.66	23.98	-4.32	HIGH RB 1-24
2312.50	21.34	V	8.85	5.14		17.63	23.98	-6.35	HIGH RB 1-24
Rev. 10.17.25									
CONFIG 0 QPSK									

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2305-2315MHZ BAND LTE30 5MHZ 16QAM CONFIG0

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	20.12	H	8.85	5.14		16.41	23.98	-7.57	LOW RB 1-0
2307.50	18.56	V	8.85	5.14		14.85	23.98	-9.13	LOW RB 1-0
2307.50	20.00	H	8.85	5.14		16.29	23.98	-7.69	MID RB 1-12
2307.50	18.54	V	8.85	5.14		14.83	23.98	-9.15	MID RB 1-12
2307.50	19.90	H	8.85	5.14		16.19	23.98	-7.79	HIGH RB 1-24
2307.50	18.23	V	8.85	5.14		14.52	23.98	-9.46	HIGH RB 1-24
2310.00	22.60	H	8.85	5.14		18.89	23.98	-5.09	LOW RB 1-0
2310.00	19.78	V	8.85	5.14		16.07	23.98	-7.91	LOW RB 1-0
2310.00	22.65	H	8.85	5.14		18.94	23.98	-5.04	MID RB 1-12
2310.00	19.86	V	8.85	5.14		16.15	23.98	-7.83	MID RB 1-12
2310.00	22.63	H	8.85	5.14		18.92	23.98	-5.06	HIGH RB 1-24
2310.00	19.39	V	8.85	5.14		15.68	23.98	-8.30	HIGH RB 1-24
2312.50	22.48	H	8.85	5.14		18.77	23.98	-5.21	LOW RB 1-0
2312.50	20.92	V	8.85	5.14		17.21	23.98	-6.77	LOW RB 1-0
2312.50	22.57	H	8.85	5.14		18.86	23.98	-5.12	MID RB 1-12
2312.50	20.74	V	8.85	5.14		17.03	23.98	-6.95	MID RB 1-12
2312.50	22.48	H	8.85	5.14		18.77	23.98	-5.21	HIGH RB 1-24
2312.50	20.47	V	8.85	5.14		16.76	23.98	-7.22	HIGH RB 1-24

Rev. 10.17.25

CONFIG 0 16QAM

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2305-2315MHZ BAND LTE30 5MHZ QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	15.47	H	8.85	5.14		11.76	23.98	-12.22	LOW RB 1-0
2307.50	20.66	V	8.85	5.14		16.95	23.98	-7.03	LOW RB 1-0
2307.50	15.07	H	8.85	5.14		11.36	23.98	-12.62	MID RB 1-12
2307.50	20.90	V	8.85	5.14		17.19	23.98	-6.79	MID RB 1-12
2307.50	14.85	H	8.85	5.14		11.14	23.98	-12.84	HIGH RB 1-24
2307.50	20.93	V	8.85	5.14		17.22	23.98	-6.76	HIGH RB 1-24
2310.00	15.12	H	8.85	5.14		11.41	23.98	-12.57	LOW RB 1-0
2310.00	21.85	V	8.85	5.14		18.14	23.98	-5.84	LOW RB 1-0
2310.00	15.32	H	8.85	5.14		11.61	23.98	-12.37	MID RB 1-12
2310.00	22.07	V	8.85	5.14		18.36	23.98	-5.62	MID RB 1-12
2310.00	14.96	H	8.85	5.14		11.25	23.98	-12.73	HIGH RB 1-24
2310.00	22.02	V	8.85	5.14		18.31	23.98	-5.67	HIGH RB 1-24
2312.50	15.66	H	8.85	5.14		11.95	23.98	-12.03	LOW RB 1-0
2312.50	22.41	V	8.85	5.14		18.70	23.98	-5.28	LOW RB 1-0
2312.50	16.03	H	8.85	5.14		12.32	23.98	-11.66	MID RB 1-12
2312.50	22.24	V	8.85	5.14		18.53	23.98	-5.45	MID RB 1-12
2312.50	15.79	H	8.85	5.14		12.08	23.98	-11.90	HIGH RB 1-24
2312.50	22.48	V	8.85	5.14		18.77	23.98	-5.21	HIGH RB 1-24

Rev. 10.17.25

CONFIG 1 QPSK

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2305-2315MHZ BAND LTE30 5MHZ 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	14.65	H	8.85	5.14		10.94	23.98	-13.04	LOW RB 1-0
2307.50	19.76	V	8.85	5.14		16.05	23.98	-7.93	LOW RB 1-0
2307.50	14.46	H	8.85	5.14		10.75	23.98	-13.23	MID RB 1-12
2307.50	19.98	V	8.85	5.14		16.27	23.98	-7.71	MID RB 1-12
2307.50	13.94	H	8.85	5.14		10.23	23.98	-13.75	HIGH RB 1-24
2307.50	20.05	V	8.85	5.14		16.34	23.98	-7.64	HIGH RB 1-24
2310.00	14.26	H	8.85	5.14		10.55	23.98	-13.43	LOW RB 1-0
2310.00	21.04	V	8.85	5.14		17.33	23.98	-6.65	LOW RB 1-0
2310.00	14.02	H	8.85	5.14		10.31	23.98	-13.67	MID RB 1-12
2310.00	20.78	V	8.85	5.14		17.07	23.98	-6.91	MID RB 1-12
2310.00	13.90	H	8.85	5.14		10.19	23.98	-13.79	HIGH RB 1-24
2310.00	21.00	V	8.85	5.14		17.29	23.98	-6.69	HIGH RB 1-24
2312.50	14.84	H	8.85	5.14		11.13	23.98	-12.85	LOW RB 1-0
2312.50	21.63	V	8.85	5.14		17.92	23.98	-6.06	LOW RB 1-0
2312.50	15.24	H	8.85	5.14		11.53	23.98	-12.45	MID RB 1-12
2312.50	21.62	V	8.85	5.14		17.91	23.98	-6.07	MID RB 1-12
2312.50	15.18	H	8.85	5.14		11.47	23.98	-12.51	HIGH RB 1-24
2312.50	21.38	V	8.85	5.14		17.67	23.98	-6.31	HIGH RB 1-24

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CONFIG 1 16QAM

9.1.2 LTE BAND 30 10MHZ

High Frequency Substitution Measurement UL Morrisville Chamber 4									
Company:		RFSL							
Project #:		15980274							
Date:		2025-09-28 thru 2025-10-28							
Test Engineer:		19289							
Configuration:		EUT Only							
Mode:		TX, 2310MHz BAND LTE30 10MHZ QPSK CONFIG0							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	23.30	H	8.85	5.14		19.59	23.98	-4.39	RB 1-0
2310.00	20.56	V	8.85	5.14		16.85	23.98	-7.13	RB 1-0
2310.00	23.29	H	8.85	5.14		19.58	23.98	-4.40	RB 1-25
2310.00	21.34	V	8.85	5.14		17.63	23.98	-6.35	RB 1-25
2310.00	23.17	H	8.85	5.14		19.46	23.98	-4.52	RB 1-49
2310.00	19.93	V	8.85	5.14		16.22	23.98	-7.76	RB 1-49
Rev. 10.17.25									
<u>CONFIG 0 QPSK</u>									

High Frequency Substitution Measurement UL Morrisville Chamber 4									
Company:		RFSL							
Project #:		15980274							
Date:		2025-09-28 thru 2025-10-28							
Test Engineer:		19289							
Configuration:		EUT Only							
Mode:		TX, 2310MHz BAND LTE30 10MHZ 16QAM CONFIG0							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	23.75	H	8.85	5.14		20.04	23.98	-3.94	RB 1-0
2310.00	20.79	V	8.85	5.14		17.08	23.98	-6.90	RB 1-0
2310.00	23.43	H	8.85	5.14		19.72	23.98	-4.26	RB 1-25
2310.00	21.77	V	8.85	5.14		18.06	23.98	-5.92	RB 1-25
2310.00	23.29	H	8.85	5.14		19.58	23.98	-4.40	RB 1-49
2310.00	19.99	V	8.85	5.14		16.28	23.98	-7.70	RB 1-49
Rev. 10.17.25									
<u>CONFIG 0 16QAM</u>									

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2310MHz BAND LTE30 10MHZ QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	17.46	H	8.85	5.14		13.75	23.98	-10.23	RB 1-0
2310.00	23.70	V	8.85	5.14		19.99	23.98	-3.99	RB 1-0
2310.00	17.11	H	8.85	5.14		13.40	23.98	-10.58	RB 1-25
2310.00	23.51	V	8.85	5.14		19.80	23.98	-4.18	RB 1-25
2310.00	15.76	H	8.85	5.14		12.05	23.98	-11.93	RB 1-49
2310.00	22.29	V	8.85	5.14		18.58	23.98	-5.40	RB 1-49

Rev. 10.17.25

CONFIG 1 QPSK

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2310MHz BAND LTE30 10MHZ 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	20.56	H	8.85	5.14		16.85	23.98	-7.13	MID RB 1-0
2310.00	22.96	V	8.85	5.14		19.25	23.98	-4.73	MID RB 1-0
2310.00	20.42	H	8.85	5.14		16.71	23.98	-7.27	MID RB 1-25
2310.00	23.46	V	8.85	5.14		19.75	23.98	-4.23	MID RB 1-25
2310.00	19.43	H	8.85	5.14		15.72	23.98	-8.26	MID RB 1-49
2310.00	22.73	V	8.85	5.14		19.02	23.98	-4.96	MID RB 1-49

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CONFIG 1 16QAM

9.1.3 5GNR N30 5MHZ

High Frequency Substitution Measurement UL Morrisville Chamber 4									
Company:		RFSL							
Project #:		15980274							
Date:		2025-09-28 thru 2025-10-28							
Test Engineer:		19289							
Configuration:		EUT Only							
Mode:		TX, 2305-2315MHZ BAND N30 5MHZ BPSK CONFIG0							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	22.08	H	8.85	5.14		18.37	23.98	-5.61	LOW RB 1-1
2307.50	21.86	V	8.85	5.14		18.15	23.98	-5.83	LOW RB 1-1
2307.50	22.70	H	8.85	5.14		18.99	23.98	-4.99	MID RB 1-13
2307.50	21.99	V	8.85	5.14		18.28	23.98	-5.70	MID RB 1-13
2307.50	22.52	H	8.85	5.14		18.81	23.98	-5.17	HIGH RB 1-23
2307.50	21.85	V	8.85	5.14		18.14	23.98	-5.84	HIGH RB 1-23
2310.00	22.10	H	8.85	5.14		18.39	23.98	-5.59	LOW RB 1-1
2310.00	20.31	V	8.85	5.14		16.60	23.98	-7.38	LOW RB 1-1
2310.00	22.14	H	8.85	5.14		18.43	23.98	-5.55	MID RB 1-13
2310.00	20.28	V	8.85	5.14		16.57	23.98	-7.41	MID RB 1-13
2310.00	21.98	H	8.85	5.14		18.27	23.98	-5.71	HIGH RB 1-23
2310.00	20.40	V	8.85	5.14		16.69	23.98	-7.29	HIGH RB 1-23
2312.50	22.95	H	8.85	5.14		19.24	23.98	-4.74	LOW RB 1-1
2312.50	21.32	V	8.85	5.14		17.61	23.98	-6.37	LOW RB 1-1
2312.50	22.97	H	8.85	5.14		19.26	23.98	-4.72	MID RB 1-13
2312.50	21.98	V	8.85	5.14		18.27	23.98	-5.71	MID RB 1-13
2312.50	22.77	H	8.85	5.14		19.06	23.98	-4.92	HIGH RB 1-23
2312.50	21.94	V	8.85	5.14		18.23	23.98	-5.75	HIGH RB 1-23
Rev. 10.17.25									
<u>CONFIG 0 BPSK</u>									

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2305-2315MHZ BAND N30 5MHZ 16QAM CONFIG0

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	21.64	H	8.85	5.14		17.93	23.98	-6.05	LOW RB 1-1
2307.50	20.84	V	8.85	5.14		17.13	23.98	-6.85	LOW RB 1-1
2307.50	21.60	H	8.85	5.14		17.89	23.98	-6.09	MID RB 1-13
2307.50	20.92	V	8.85	5.14		17.21	23.98	-6.77	MID RB 1-13
2307.50	21.53	H	8.85	5.14		17.82	23.98	-6.16	HIGH RB 1-23
2307.50	20.86	V	8.85	5.14		17.15	23.98	-6.83	HIGH RB 1-23
2310.00	21.07	H	8.85	5.14		17.36	23.98	-6.62	LOW RB 1-1
2310.00	19.24	V	8.85	5.14		15.53	23.98	-8.45	LOW RB 1-1
2310.00	21.00	H	8.85	5.14		17.29	23.98	-6.69	MID RB 1-13
2310.00	19.40	V	8.85	5.14		15.69	23.98	-8.29	MID RB 1-13
2310.00	20.96	H	8.85	5.14		17.25	23.98	-6.73	HIGH RB 1-23
2310.00	19.40	V	8.85	5.14		15.69	23.98	-8.29	HIGH RB 1-23
2312.50	21.67	H	8.85	5.14		17.96	23.98	-6.02	LOW RB 1-1
2312.50	20.29	V	8.85	5.14		16.58	23.98	-7.40	LOW RB 1-1
2312.50	21.65	H	8.85	5.14		17.94	23.98	-6.04	MID RB 1-13
2312.50	20.16	V	8.85	5.14		16.45	23.98	-7.53	MID RB 1-13
2312.50	21.58	H	8.85	5.14		17.87	23.98	-6.11	HIGH RB 1-23
2312.50	19.96	V	8.85	5.14		16.25	23.98	-7.73	HIGH RB 1-23

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CONFIG 0 16QAM

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2305-2315MHZ BAND N30 5MHZ BPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	17.60	H	8.85	5.14		13.89	23.98	-10.09	LOW RB 1-1
2307.50	21.67	V	8.85	5.14		17.96	23.98	-6.02	LOW RB 1-1
2307.50	17.61	H	8.85	5.14		13.90	23.98	-10.08	MID RB 1-13
2307.50	21.65	V	8.85	5.14		17.94	23.98	-6.04	MID RB 1-13
2307.50	17.51	H	8.85	5.14		13.80	23.98	-10.18	HIGH RB 1-23
2307.50	21.48	V	8.85	5.14		17.77	23.98	-6.21	HIGH RB 1-23
2310.00	17.02	H	8.85	5.14		13.31	23.98	-10.67	LOW RB 1-1
2310.00	21.55	V	8.85	5.14		17.84	23.98	-6.14	LOW RB 1-1
2310.00	16.89	H	8.85	5.14		13.18	23.98	-10.80	MID RB 1-13
2310.00	21.54	V	8.85	5.14		17.83	23.98	-6.15	MID RB 1-13
2310.00	16.64	H	8.85	5.14		12.93	23.98	-11.05	HIGH RB 1-23
2310.00	21.36	V	8.85	5.14		17.65	23.98	-6.33	HIGH RB 1-23
2312.50	17.40	H	8.85	5.14		13.69	23.98	-10.29	LOW RB 1-1
2312.50	21.49	V	8.85	5.14		17.78	23.98	-6.20	LOW RB 1-1
2312.50	17.09	H	8.85	5.14		13.38	23.98	-10.60	MID RB 1-13
2312.50	21.43	V	8.85	5.14		17.72	23.98	-6.26	MID RB 1-13
2312.50	16.65	H	8.85	5.14		12.94	23.98	-11.04	HIGH RB 1-23
2312.50	21.25	V	8.85	5.14		17.54	23.98	-6.44	HIGH RB 1-23

Rev. 10.17.25

CONFIG 1 BPSK

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2305-2315MHZ BAND N30 5MHZ 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2307.50	16.93	H	8.85	5.14		13.22	23.98	-10.76	LOW RB 1-1
2307.50	20.87	V	8.85	5.14		17.16	23.98	-6.82	LOW RB 1-1
2307.50	16.83	H	8.85	5.14		13.12	23.98	-10.86	MID RB 1-13
2307.50	20.61	V	8.85	5.14		16.90	23.98	-7.08	MID RB 1-13
2307.50	16.70	H	8.85	5.14		12.99	23.98	-10.99	HIGH RB 1-23
2307.50	20.77	V	8.85	5.14		17.06	23.98	-6.92	HIGH RB 1-23
2310.00	16.17	H	8.85	5.14		12.46	23.98	-11.52	LOW RB 1-1
2310.00	20.58	V	8.85	5.14		16.87	23.98	-7.11	LOW RB 1-1
2310.00	16.03	H	8.85	5.14		12.32	23.98	-11.66	MID RB 1-13
2310.00	20.58	V	8.85	5.14		16.87	23.98	-7.11	MID RB 1-13
2310.00	15.78	H	8.85	5.14		12.07	23.98	-11.91	HIGH RB 1-23
2310.00	20.52	V	8.85	5.14		16.81	23.98	-7.17	HIGH RB 1-23
2312.50	16.69	H	8.85	5.14		12.98	23.98	-11.00	LOW RB 1-1
2312.50	20.66	V	8.85	5.14		16.95	23.98	-7.03	LOW RB 1-1
2312.50	16.31	H	8.85	5.14		12.60	23.98	-11.38	MID RB 1-13
2312.50	20.55	V	8.85	5.14		16.84	23.98	-7.14	MID RB 1-13
2312.50	15.77	H	8.85	5.14		12.06	23.98	-11.92	HIGH RB 1-23
2312.50	20.32	V	8.85	5.14		16.61	23.98	-7.37	HIGH RB 1-23

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CONFIG 1 16QAM

9.1.4 5GNR N30 10MHZ

High Frequency Substitution Measurement UL Morrisville Chamber 4									
Company:		RFSL							
Project #:		15980274							
Date:		2025-09-28 thru 2025-10-28							
Test Engineer:		19289							
Configuration:		EUT Only							
Mode:		TX, 2310MHz BAND N30 10MHZ QPSK CONFIG0							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	20.77	H	8.85	5.14		17.06	23.98	-6.92	MID RB 1-1
2310.00	20.27	V	8.85	5.14		16.56	23.98	-7.42	MID RB 1-1
2310.00	21.89	H	8.85	5.14		18.18	23.98	-5.80	MID RB 1-26
2310.00	20.26	V	8.85	5.14		16.55	23.98	-7.43	MID RB 1-26
2310.00	21.96	H	8.85	5.14		18.25	23.98	-5.73	MID RB 1-50
2310.00	20.10	V	8.85	5.14		16.39	23.98	-7.59	MID RB 1-50
Rev. 10.17.25									
<u>CONFIG 0 QPSK</u>									

High Frequency Substitution Measurement UL Morrisville Chamber 4									
Company:		RFSL							
Project #:		15980274							
Date:		2025-09-28 thru 2025-10-28							
Test Engineer:		19289							
Configuration:		EUT Only							
Mode:		TX, 2310MHz BAND N30 10MHZ 16QAM CONFIG0							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	19.79	H	8.85	5.14		16.08	23.98	-7.90	MID RB 1-1
2310.00	19.27	V	8.85	5.14		15.56	23.98	-8.42	MID RB 1-1
2310.00	20.81	H	8.85	5.14		17.10	23.98	-6.88	MID RB 1-26
2310.00	19.19	V	8.85	5.14		15.48	23.98	-8.50	MID RB 1-26
2310.00	20.80	H	8.85	5.14		17.09	23.98	-6.89	MID RB 1-50
2310.00	19.01	V	8.85	5.14		15.30	23.98	-8.68	MID RB 1-50
Rev. 10.17.25									
<u>CONFIG 0 16QAM</u>									

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2310MHz BAND N30 10MHZ BPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	17.43	H	8.85	5.14		13.72	23.98	-10.26	MID RB 1-1
2310.00	21.57	V	8.85	5.14		17.86	23.98	-6.12	MID RB 1-1
2310.00	17.02	H	8.85	5.14		13.31	23.98	-10.67	MID RB 1-26
2310.00	21.35	V	8.85	5.14		17.64	23.98	-6.34	MID RB 1-26
2310.00	16.04	H	8.85	5.14		12.33	23.98	-11.65	MID RB 1-50
2310.00	20.92	V	8.85	5.14		17.21	23.98	-6.77	MID RB 1-50

Rev. 10.17.25

CONFIG 1 BPSK

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 2025-09-28 thru 2025-10-28
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, 2310MHz BAND N30 10MHZ 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
2310.00	16.70	H	8.85	5.14		12.99	23.98	-10.99	MID RB 1-1
2310.00	20.85	V	8.85	5.14		17.14	23.98	-6.84	MID RB 1-1
2310.00	16.23	H	8.85	5.14		12.52	23.98	-11.46	MID RB 1-26
2310.00	20.53	V	8.85	5.14		16.82	23.98	-7.16	MID RB 1-26
2310.00	15.18	H	8.85	5.14		11.47	23.98	-12.51	MID RB 1-50
2310.00	20.03	V	8.85	5.14		16.32	23.98	-7.66	MID RB 1-50

Rev. 10.17.25

CONFIG 1 16QAM

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC: §27.53 (a)

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

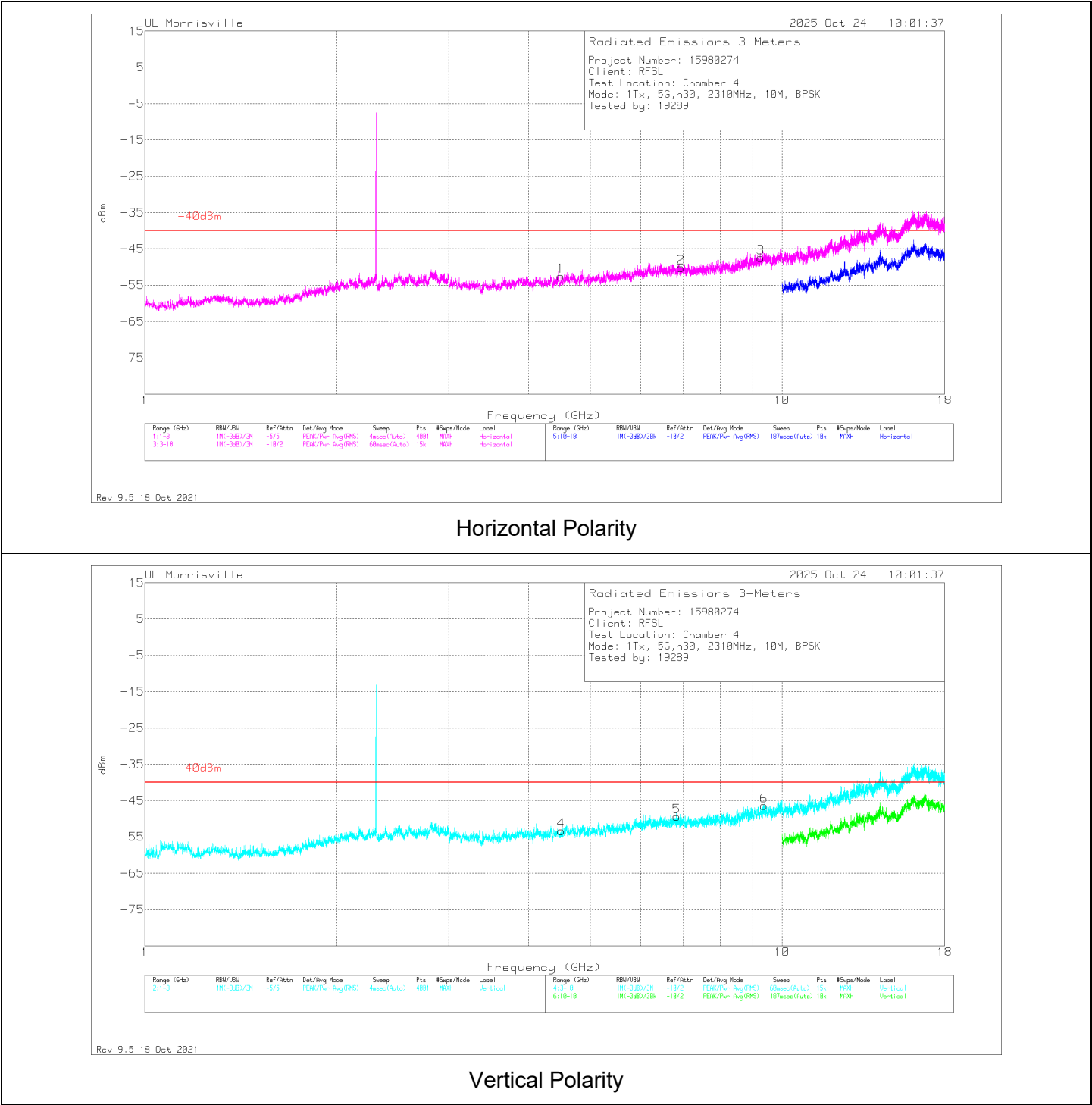
RSS195§5.6

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

RSS195§5.6.2 Mobile, Portable and Low-Power Fixed Subscriber Equipment

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, $P(\text{dBW})$, by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

Example Plot



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Polarity
1	4.495000	-65.62	Pk	33.8	-32.5	11.8	0	-52.52	-40	-12.52	H
4	4.502000	-66.61	Pk	33.8	-32.3	11.8	0	-53.31	-40	-13.31	V
5	6.835000	-67.85	Pk	35.5	-28.8	11.8	0	-49.35	-40	-9.35	V
2	6.943000	-69.04	Pk	35.5	-28.4	11.8	0	-50.14	-40	-10.14	H
3	9.259000	-70.22	Pk	36.3	-25.3	11.8	0	-47.42	-40	-7.42	H
6	9.374000	-70.35	Pk	36.4	-24.3	11.8	0	-46.45	-40	-6.45	V

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

LTE BAND 30

LTE BAND 30 (QPSK 10.0MHZ BANDWIDTH, Config 1)

Project #:	15980274
Date:	2025-09-08
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B30 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
3.078000	-53.72	Pk	33.1	-45.0	11.8	0.8	-53.02	-40	-13.02	V
3.095000	-53.05	Pk	33.2	-45.3	11.8	0.8	-52.55	-40	-12.55	H
6.720000	-55.12	Pk	35.5	-42.6	11.8	0.2	-50.22	-40	-10.22	V
6.917000	-52.39	Pk	35.6	-43.3	11.8	0.4	-47.89	-40	-7.89	H
9.849000	-56.65	Pk	37.0	-40.2	11.8	0.7	-47.35	-40	-7.35	H
9.850000	-57.22	Pk	37.0	-40.2	11.8	0.7	-47.92	-40	-7.92	V

LTE BAND 30 (QPSK 10.0MHZ BANDWIDTH, Config 2)

Project #:	15980274
Date:	2025-09-10
Test Engineer:	33271 / 11993
Configuration:	EUT Only
Mode	LTE B30 QPSK 10MHz
Chamber #:	Chamber 2

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
3.277000	-53.26	Pk	32.9	-45.6	11.8	0.7	-53.46	-40	-13.46	H
3.280000	-51.70	Pk	32.9	-45.4	11.8	0.7	-51.70	-40	-11.70	V
6.113000	-55.10	Pk	35.4	-42.0	11.8	0.5	-49.40	-40	-9.40	H
6.114000	-54.64	Pk	35.4	-42.0	11.8	0.5	-48.94	-40	-8.94	V
8.114000	-56.09	Pk	35.8	-41.1	11.8	0.5	-49.09	-40	-9.09	H
8.119000	-54.89	Pk	35.8	-41.3	11.8	0.5	-48.09	-40	-8.09	V

5G NR n30

5G NR n30 (BPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15980274
Date:	2025-10-24
Test Engineer:	19289
Configuration:	EUT Only
Mode	5G NR n30 BPSK 10MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
3.968000	-65.66	Pk	33.4	-32.6	11.8	0	-53.06	-40	-13.06	H
4.499000	-65.91	Pk	33.8	-32.4	11.8	0	-52.71	-40	-12.71	V
6.164000	-66.59	Pk	35.3	-29.1	11.8	0	-48.59	-40	-8.59	V
6.792000	-68.90	Pk	35.4	-27.6	11.8	0	-49.30	-40	-9.30	H
8.631000	-69.04	Pk	35.8	-26.2	11.8	0	-47.64	-40	-7.64	V
8.993000	-70.04	Pk	36.0	-24.7	11.8	0	-46.94	-40	-6.94	H

5G NR n30 (BPSK 10.0MHZ BANDWIDTH, ANT 2)

Project #:	15980274
Date:	2025-10-24
Test Engineer:	19289
Configuration:	EUT Only
Mode	5G NR n30 BPSK 10MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
4.495000	-65.62	Pk	33.8	-32.5	11.8	0	-52.52	-40	-12.52	H
4.502000	-66.61	Pk	33.8	-32.3	11.8	0	-53.31	-40	-13.31	V
6.835000	-67.85	Pk	35.5	-28.8	11.8	0	-49.35	-40	-9.35	V
6.943000	-69.04	Pk	35.5	-28.4	11.8	0	-50.14	-40	-10.14	H
9.259000	-70.22	Pk	36.3	-25.3	11.8	0	-47.42	-40	-7.42	H
9.374000	-70.35	Pk	36.4	-24.3	11.8	0	-46.45	-40	-6.45	V

10. SETUP PHOTOS

Refer to R15980274-EP1 for setup photos.

END OF REPORT