

TEST REPORT

Report Number: R16238088-E3d

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

Model : SM-F976B

FCC ID : A3LSMF976B

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

Test Standard(s) : FCC 47 CFR PART 2, PART 22H, PART 90S, PART 25
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4

Date Of Issue:
2026-05-12

Prepared by:
UL LLC
12 Laboratory Dr.
Durham, NC 27713 USA
TEL: (919) 549-1400



Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2026-05-12	Initial Review	Noah Bennett

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....5

2. SUMMARY OF TEST RESULTS6

3. TEST METHODOLOGY6

4. FACILITIES AND ACCREDITATION6

5. DECISION RULES AND MEASUREMENT UNCERTAINTY..... 7

5.1. METROLOGICAL TRACEABILITY 7

5.2. DECISION RULES 7

5.3. MEASUREMENT UNCERTAINTY 7

5.4. SAMPLE CALCULATION..... 7

6. EQUIPMENT UNDER TEST8

6.1. DESCRIPTION OF EUT 8

6.2. MAXIMUM OUTPUT POWER 8

6.3. MAXIMUM ANTENNA GAIN 10

6.4. WORST-CASE CONFIGURATION AND MODE 10

6.5. DESCRIPTION OF TEST SETUP 11

7. TEST AND MEASUREMENT EQUIPMENT..... 12

8. CONDUCTED TEST RESULTS 17

8.1. OCCUPIED BANDWIDTH..... 17

8.1.1. LTE BAND 26 (FCC PART 90S) 19

8.1.2. LTE BAND 5&26 (FCC PART 22)..... 20

8.1.3. 5G NR n5&n26 (FCC PART 22) 21

8.2. EMISSION MASK AND ADJACENT CHANNEL POWER..... 22

8.2.1. LTE BAND 26 (FCC PART 90S) 24

8.2.2. LTE BAND 5&26 (FCC PART 22)..... 27

8.2.3. 5G NR 5&n26 (FCC PART 22) 31

8.2.4. LTE BAND 5&26 (Straddle) 34

8.3. OUT OF BAND EMISSIONS 36

8.3.1. LTE BAND 26 (FCC PART 90S) 37

8.3.2. LTE BAND 5&26 (FCC PART 22)..... 37

8.3.3. 5G NR n5&n26 (FCC PART 22) 38

8.4. FREQUENCY LIMITS 39

8.4.1.	LTE BAND 5&26 (QPSK 10MHz BANDWIDTH, FCC PART 22)	40
8.4.2.	5G NR n5&n26 (BPSK 20MHz BANDWIDTH, FCC PART 22)	40
8.5.	PEAK-TO-AVERAGE POWER RATIO	41
8.5.1.	LTE BAND 26 (FCC PART 90S)	42
8.5.2.	LTE BAND 5&26 (FCC PART 22)	44
8.5.3.	5G NR n5&n26 (FCC PART 22)	44
9.	RADIATED TEST RESULTS	45
9.1.	EFFECTIVE RADIATED POWER ERP/EIRP	46
9.1.1.	LTE BAND 26 (FCC PART 90S)	47
9.1.2.	LTE BAND 5&26 (FCC PART 22)	49
9.1.3.	5G NR n5&n26 (FCC PART 22)	53
9.2.	FIELD STRENGTH OF SPURIOUS RADIATION	57
9.2.1.	LTE BAND 26 (FCC PART 90S & 22)	60
9.2.2.	5G NR n26 (FCC PART 90S & 22)	62
10.	SETUP PHOTOS	63

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

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

SERIAL NUMBERS: ZBK0208M, ZBD0487M, ZAT0031M, ZBK0219M

SAMPLE RECEIVE DATE: 2026-03-09

DATE TESTED: 2026-03-09 – 2026-05-01

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 2, PART 22H, PART 90S, PART 25	Complies
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4	

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:



Bob Delisi
Principal Engineer
Consumer Technology Division
UL LLC

Prepared By:



Noah Bennett
Engineer Project Associate
Consumer Technology Division
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	Band	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
RF Conducted Output Power	26 (90S)	2.1046, 90.635 (b)	--	Complies	None.
Effective Radiated Power	5, 26 (22)	22.913 (a)(5)	RSS132§5.4	Complies	None.
Occupied Bandwidth	5, 26	2.1049	RSS132, RSS-GEN§6.7	Complies	None.
Band Edge and Emission Mask	5, 26	2.1051, 22.917 (a), 90.691 (a)	RSS132§5.5	Complies	None.
Out of Band Emissions	5, 26	2.1051, 22.917 (a), 90.691 (a)	RSS132§5.5	Complies	None.
Frequency Stability	5, 26	2.1055, 22.355, 90.539, 90.213	RSS132§5.3	Complies	None.
Peak-to-Average Ratio	5, 26	22.913 (d)	RSS132§5.4	Complies	None.
Field Strength of Spurious Radiation	5, 26	2.1053, 22.917 (a), 90.691 (a)	RSS132§5.5	Complies	None.

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
- FCC 47 CFR Part 2, Part 22H, Part 90S, Part 25
- [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
- [FCC KDB 273109 D02](#): Part 25 SCS and CMRS-Bands
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-132 Issue 4

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, U.S.A.	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 Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC.

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

LTE & 5G NR Bands	Config 0	Config 1
LTE B5 & 5G NR n5	ANT A+C (Main 1)	ANT E (Sub 1)
LTE B26 (Part 90S)		
LTE B26 (Part 22H)		
NOTE: LTE26 Only supported in US Region.		

NOTE: This report applies data referencing from FCC ID: A3LSMF976U. The test data to validate data referencing is included in Test Report R16238088-E29.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

$$\text{ERP/EIRP} = P_{\text{Meas}} + G_T - L_C$$

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

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.

The EUT has different power levels for head use configuration and body use configuration. The tables below contain the highest of all configurations average conducted and peak EIRP/ERP output powers as follows:

LTE BAND 26 (FCC Part 90S)

Part 90S										
Conducted Limit (W)		100.00								
Antenna Gain (dBi)		-3.10								
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	QPSK	816.5	821.5	24.82	0.30	19.57	0.091	4.521	4521	4M52G7W
	16QAM			23.62	0.23	18.37	0.069	4.521	4521	4M52D7W
10.0	QPSK	814.0	824.0	24.58	0.29	19.33	0.086	9.003	9003	9M00G7W
	16QAM			23.46	0.22	18.21	0.066	9.016	9016	9M02D7W

LTE BAND 26 (Straddle)

Part 90S										
Conducted Limit (W)		100.00								
Antenna Gain (dBi)		-3.10								
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	QPSK	816.5	821.5	24.63	0.29	19.38	0.087	4.521	4521	4M52G7W
	16QAM			23.93	0.25	18.68	0.074	4.521	4521	4M52D7W
10.0	QPSK	819.0	829.0	24.39	0.27	19.14	0.082	9.003	9003	9M00G7W
	16QAM			23.71	0.23	18.46	0.070	9.016	9016	9M02D7W
15.0	QPSK	816.5	831.5	23.69	0.23	18.44	0.070	13.510	13510	13M5G7W
	16QAM			22.95	0.20	17.70	0.059	13.542	13542	13M5D7W

LTE BAND 5&26 (FCC Part 22)

Part 22/RSS 132								
ERP Limit (W)		7.00						
Bandwidth (MHz)	Modulation	Low Frequency	Upper Frequency	ERP Average	ERP Average	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	QPSK	826.5	846.5	19.74	0.094	4.5147	4514.7	4M51G7W
	16QAM			18.87	0.077	4.5164	4516.4	4M52D7W
15.0	QPSK	829.0	844.0	19.58	0.091	13.51	13510	13M5G7W
	16QAM			18.70	0.074	13.542	13542	13M5D7W

5G NR n5&n26 (FCC Part 22)

Part 22/RSS 132								
ERP Limit (W)		7.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	826.5	846.5	18.98	0.079	4.4923	4492.3	4M49G7W
	16QAM			18.00	0.063	4.5069	4506.9	4M51D7W
20.0	BPSK	826.5	846.5	18.81	0.076	17.955	17955	18M0G7W
	16QAM			17.82	0.061	17.915	17915	17M9D7W

6.3. MAXIMUM ANTENNA GAIN

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

Frequency Band	ANT A+C Antenna Gain (dBi)	ANT E Antenna Gain (dBi)
LTE B5 & 5G NR n5 824 – 849 MHz	-3.1	-4.2
LTE B26 & 5G NR n26 (Part 90) 814 – 824 MHz	-3.5	-4.5
LTE B26 & 5G NR n26 (Part 22) 824 – 849 MHz	-3.5	-4.5

6.4. WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based upon an engineering evaluation made on conducted average power taken during pre-testing. 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.

Radiated spurious tests were conducted on wider bandwidth with 1RB to cover the entire 814 – 849 frequency range for both part 90S and 22H.

BPSK modulation applied only for 5G NR frequencies and has the same tune up power as QPSK modulations.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

Band FR1 n5 is covered by FR1 n26, as they share the same operating frequency range, and have equal output powers.

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

LTE & 5G NR Bands	Worst-Case Antenna Port	Worst-Case Modulation
LTE B5 & 5G NR n5 824 – 849 MHz	ANT E (Sub 1)	LTE: QPSK 5G NR: BPSK
LTE B26 & 5G NR n26 (Part 90) 814 – 824 MHz	ANT A+C (Main 1)	
LTE B26 & 5G NR n26 (Part 22) 824 – 849 MHz	ANT A+C (Main 1)	

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. Additionally, the EUT was investigated between 3 folding positions, Fully Open, Fully Closed, and Half Open. 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 & 5G NR Bands	Config 0 Orientation	Config 1 Orientation
Low Band ($F_c < 1\text{GHz}$)	X, Open	X, Open
Mid Band ($1\text{GHz} < F_c < 3\text{GHz}$)	-	-
High Band ($F_c > 3\text{GHz}$)	-	-

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.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Sony	XQZ-UC11-010-236-21	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 WWAN testing

SETUP DIAGRAM

Please see R16238088-EP1d 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 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
8939	Passive Loop Antenna	EMCO	EM-6872	2024-11-18	2026-11-18
8940	Passive Loop Antenna	EMCO	EM-6871	2024-11-18	2026-11-18
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2026-02-09	2028-02-09
	1-18 GHz				
*206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-04-09	2026-04-30
	18-40 GHz				
204704	Horn Antenna, 18-26.5GHz	Com Power	AH-826	2025-07-15	2027-07-15
204705	Horn Antenna, 26-40GHz	Com Power	AH-640	2025-11-19	2027-11-19
	Gain-Loss Chains				
207638	Gain-loss string: 0.009-30MHz	Various	Various	2025-06-13	2026-06-13
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
225795	Gain-loss string: 18-40GHz	Various	Various	2025-06-13	2026-06-13
	Receiver & Software				
*197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-30
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	N/A	N/A
208720	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	N/A	N/A
21725	Radio Communications Tester	Rohde and Schwarz	CMX500	2025-11-25	2026-11-25
212167	Wideband Radio Communications Tester	Anritsu	MT8821C	N/A	N/A
198917*	1GHz high-pass filter, 2W, Fhigh =18GHz	Micro-Tronics	HPM18129-02	2025-03-13	2026-03-31

NOTES:

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

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				
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-07-15	2027-07-15
	Gain-Loss Chains				
91977	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
	Receiver & Software				
197955	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	N/A	N/A
198917*	1GHz high-pass filter, 2W, Fhigh =18GHz	Micro-Tronics	HPM18129-02	2025-03-13	2026-03-31

NOTES:

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

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
88761	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-11-19	2027-11-19
	Gain-Loss Chains				
91979	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				
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

NOTES:

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

Wireless Conducted Measurement Equipment.

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Additional Equipment used				
90411	Spectrum Analyzer MY54490314	Keysight Technologies	N9030A	2026-03-03	2027-03-03
90416	Spectrum Analyzer MY54490254	Keysight Technologies	N9030A	2025-07-31	2026-07-31
212967	Wideband Radio Communications Tester 170733	Rohde and Schwarz	CMW500	2026-02-13	2027-02-13
212166	Wideband Radio Communications Tester	Anritsu	MT8000A	2026-02-23	2027-02-23
*262469	Humidity and Temperature Probe	Control Company	15-077-963	2025-04-28	2026-04-30
211055	Real-Time Peak Power Sensor	Boonton	RTP5000	2025-07-30	2026-07-30

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Attenuators				
226569	2.92mm Coaxial 10dB Attenuator 40GHz	Fairview Microwave	SA4014-10	2025-09-02	2026-09-02
226554*	20dB Attenuator	CentricRF	C18S2-20	2025-03-19 2026-04-01	2026-03-31 2027-04-01
226552*	20dB Attenuator	CentricRF	C18S2-20	2025-03-19 2026-04-01	2026-03-31 2027-04-01
	Cables				
246257	SMA Cable	Huber + Suhner	104PEA	2025-09-05	2026-09-05
	Couplers				
238018*	Ultra-Wideband Directional Coupler 0.5-18GHz	Mini-Circuits	ZUDC10-183+	2025-04-48	2026-04-30

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: RSS132

LIMITS

For reporting purposes only.

TEST PROCEDURE

ANSI C63.26:2015: Section 5.4

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

RESULTS

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

LTE BAND 5&26(FCC PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 26 (90S)	1.4MHz, QPSK	6/0	819.0	1.103	1.359
	1.4MHz, 16QAM			1.107	1.426
	3MHz, QPSK	15/0		2.721	3.073
	3MHz, 16QAM			2.718	3.122
	5MHz, QPSK	25/0		4.521	5.091
	5MHz, 16QAM			4.521	5.159
	10MHz, QPSK	50/0		9.000	10.05
	10MHz, 16QAM			9.016	10.130
	10MHz, QPSK	1/0		0.271	0.4745

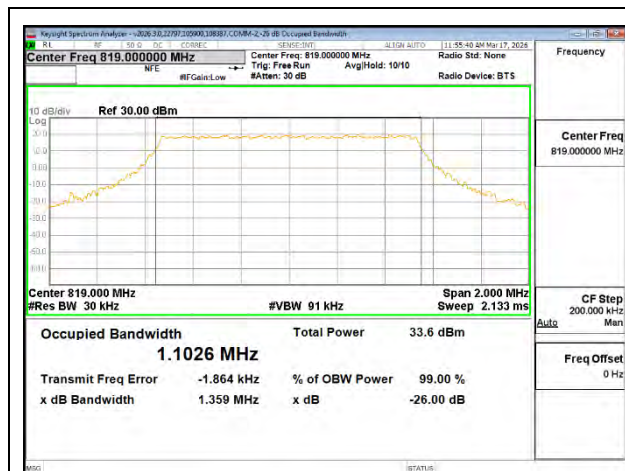
LTE BAND 5&26 (FCC PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 5&26	1.4MHz, QPSK	6/0	836.5	1.1003	1.370
	1.4MHz, 16QAM			1.1053	1.407
	3MHz, QPSK	15/0		2.7148	3.119
	3MHz, 16QAM			2.7180	3.062
	5MHz, QPSK	25/0		4.5147	5.211
	5MHz, 16QAM			4.5164	5.185
	10MHz, QPSK	50/0		9.0002	10.07
	10MHz, 16QAM			8.9983	10.09
	15MHz, QPSK	75/0		13.510	15.09
	15MHz, 16QAM			13.542	14.92
	10MHz, QPSK	1/0		0.2607	0.4364

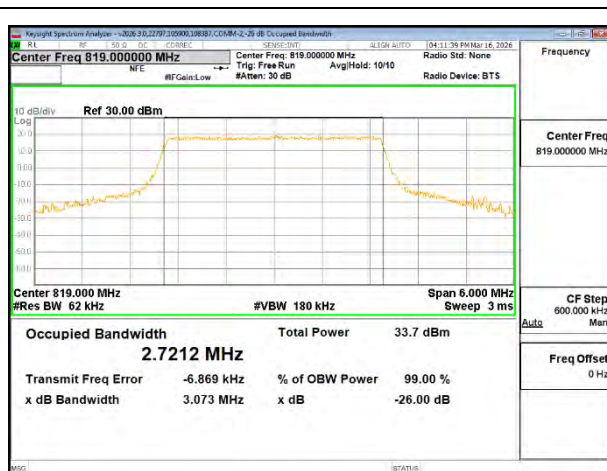
5G NR n5&n26 (FCC PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n5&n26 (FCC Part 22)	5MHz, BPSK	25/0	836.5	4.4923	5.053
	5MHz, 16QAM			4.5069	5.140
	10MHz, BPSK	50/0		8.9754	9.805
	10MHz, 16QAM			8.9997	9.889
	15MHz, BPSK	75/0		13.453	14.51
	15MHz, 16QAM			13.511	14.60
	20MHz, BPSK	100/0		17.955	19.19
	20MHz, 16QAM			17.915	19.31
	20MHz, BPSK	1/0		0.24523	0.4242

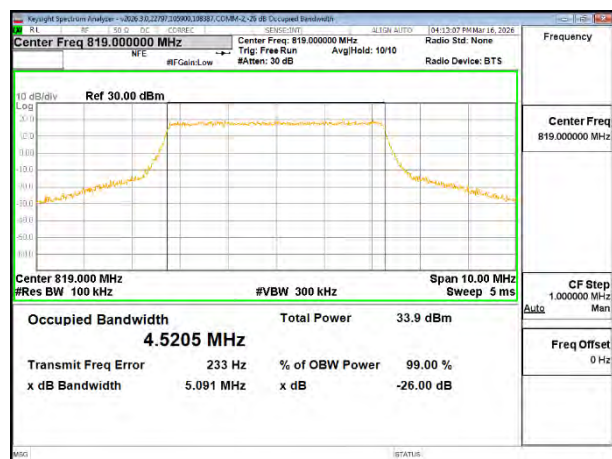
8.1.1. LTE BAND 26 (FCC PART 90S)



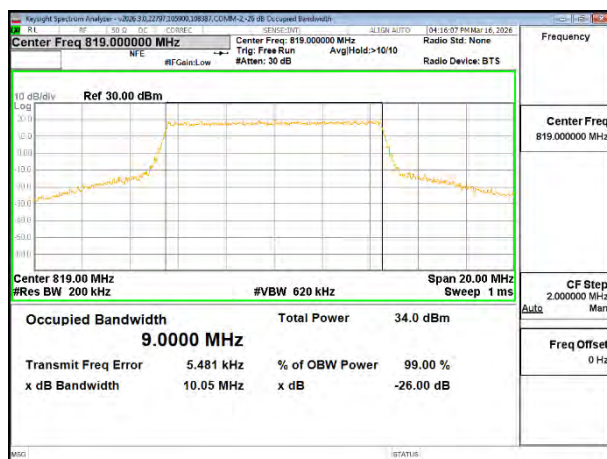
LTE B26 1.4MHz QPSK Middle Channel RB6-0



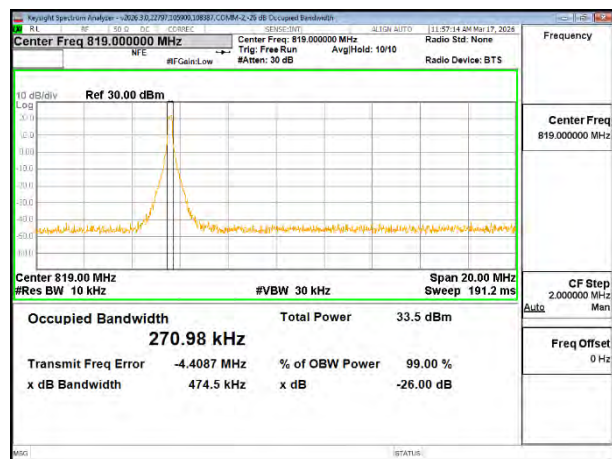
LTE B26 3MHz QPSK Middle Channel RB15-0



LTE B26 5MHz QPSK Middle Channel RB25-0



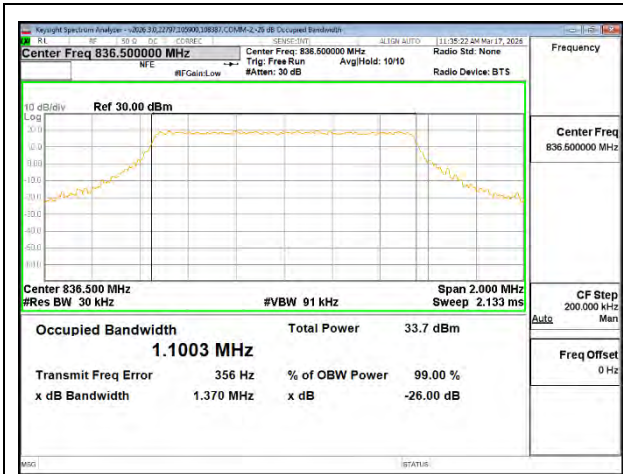
LTE B26 10MHz QPSK Middle Channel RB50-0



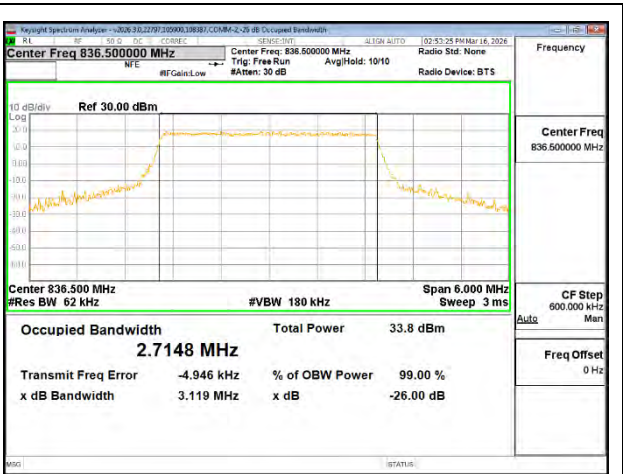
LTE B26 10MHz QPSK Middle Channel RB1-0

Intentionally Blank

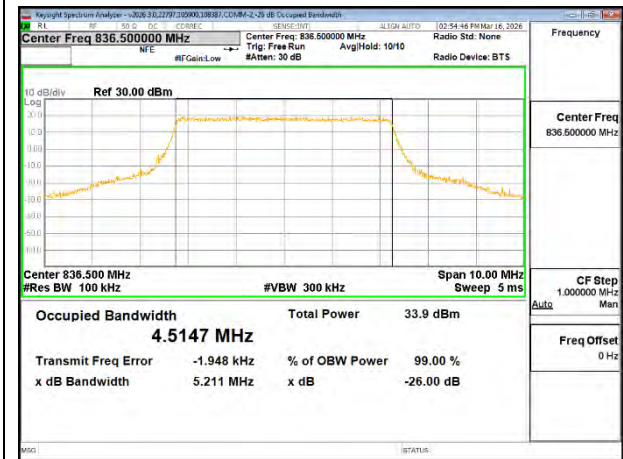
8.1.2. LTE BAND 5&26 (FCC PART 22)



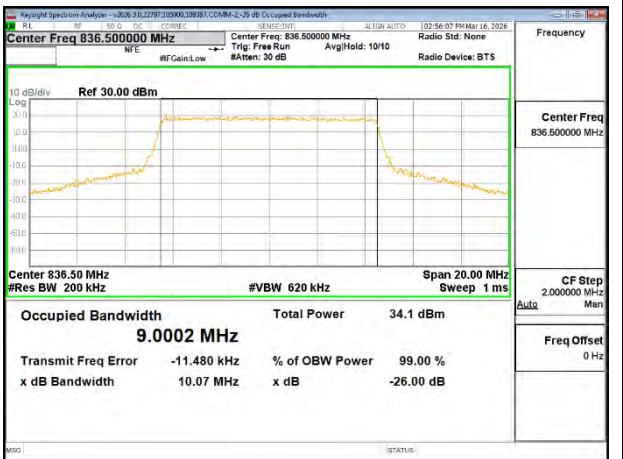
LTE B26 1.4MHz QPSK Middle Channel RB6-0



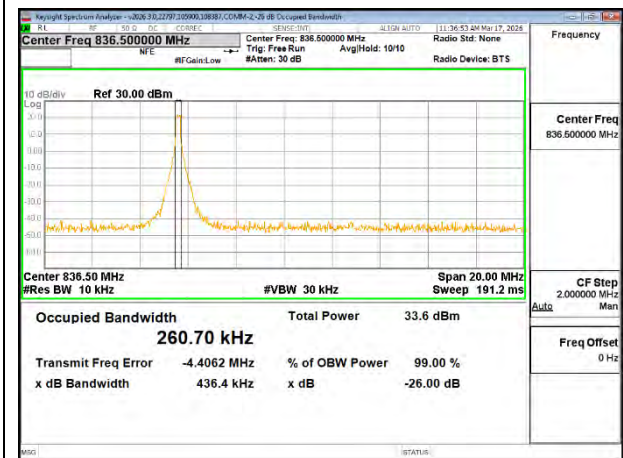
LTE B26 3MHz QPSK Middle Channel RB15-0



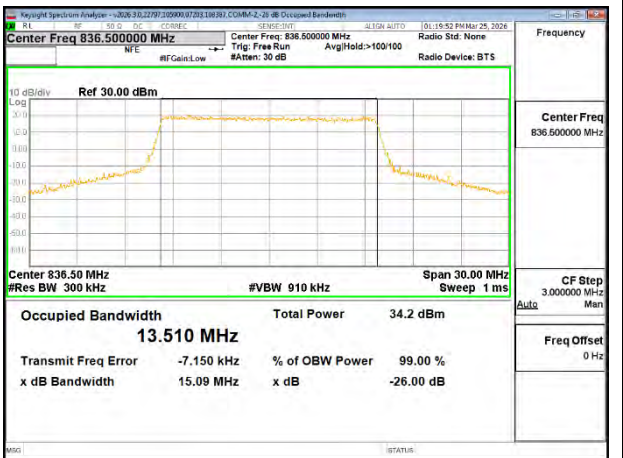
LTE B26 5MHz QPSK Middle Channel RB25-0



LTE B26 10MHz QPSK Middle Channel RB50-0

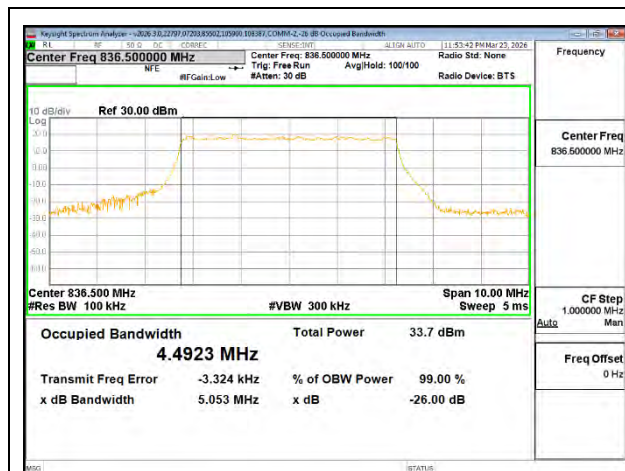


LTE B26 10MHz OPSK Middle Channel RB1-0



LTE B26 15MHz QPSK Middle Channel RB75-0

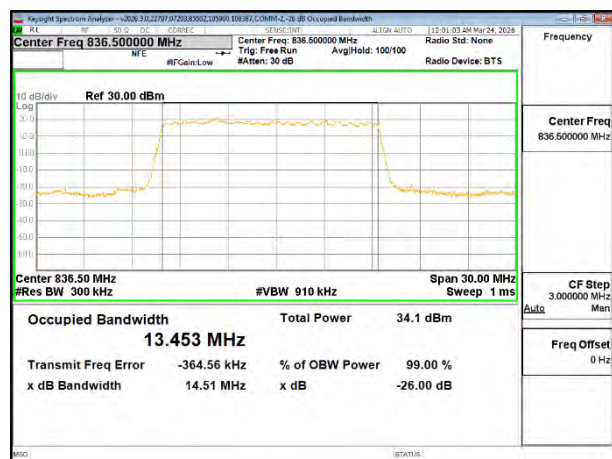
8.1.3. 5G NR n5&n26 (FCC PART 22)



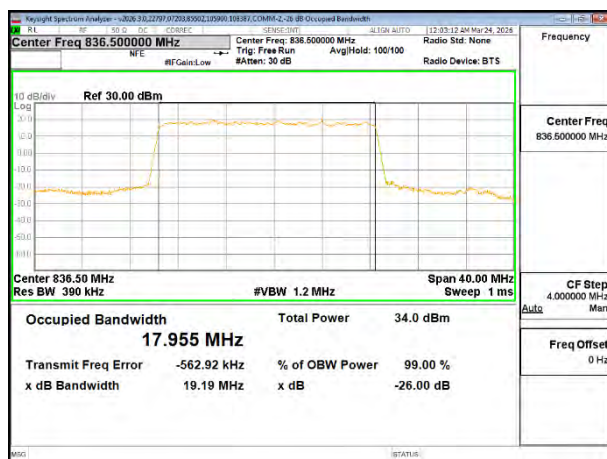
5G NR n26 5MHz BPSK Middle Channel RB25-0



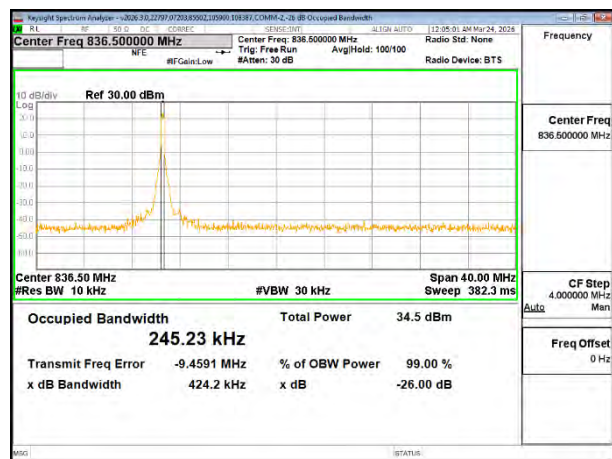
5G NR n26 10MHz BPSK Middle Channel RB50-0



5G NR n26 15MHz BPSK Middle Channel RB75-0



5G NR n26 20MHz BPSK Middle Channel RB100-0



5G NR n26 20MHz Middle High Channel RB1-0

Intentionally Blank

8.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §22.917 (a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

NOTE: According to 971168 D02 Misc Rev Approv License Devices v02r01, Section VIII (c):

For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

ISED: RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

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:

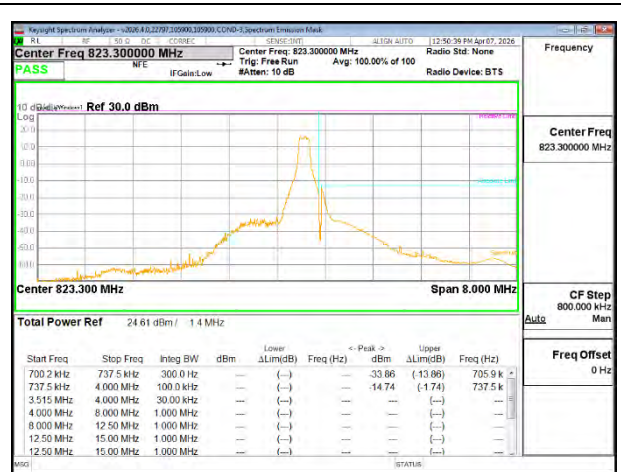
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

8.2.1. LTE BAND 26 (FCC PART 90S)



LTE B26 1.4MHz QPSK Low Channel RB1-0



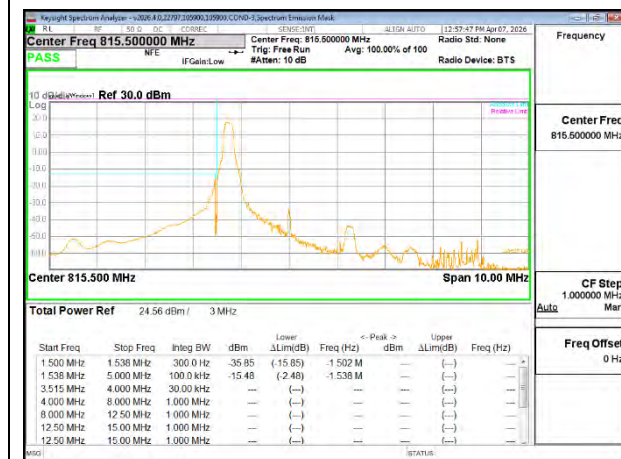
LTE B26 1.4MHz QPSK High Channel RB1-5



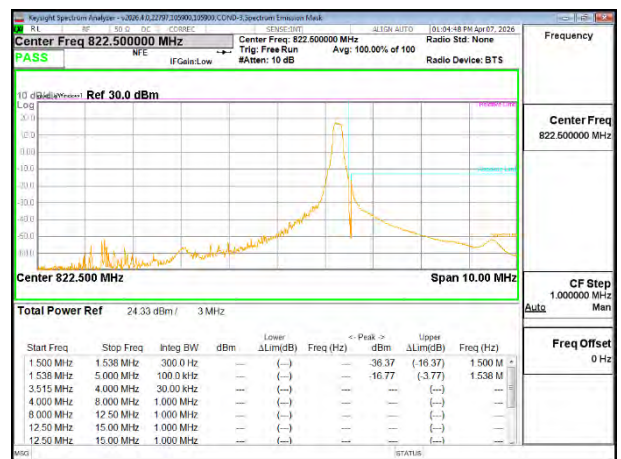
LTE B26 1.4MHz QPSK Low Channel RB6-0



LTE B26 1.4MHz QPSK High Channel RB6-0



LTE B26 3MHz QPSK Low Channel RB1-0



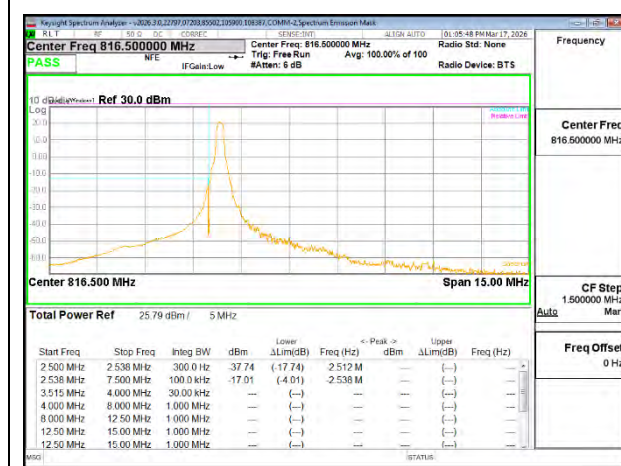
LTE B26 3MHz QPSK High Channel RB1-04



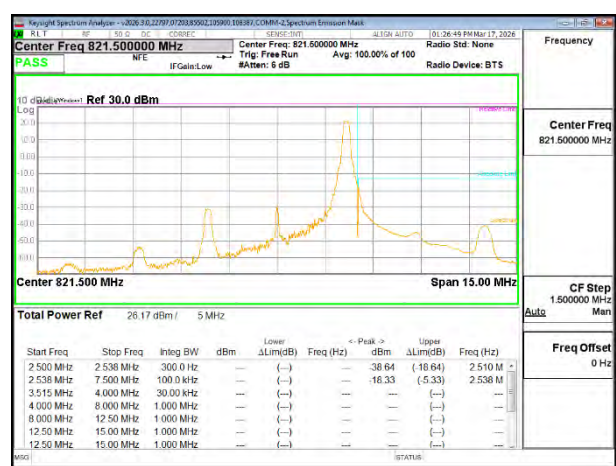
LTE B26 3MHz QPSK Low Channel RB15-0



LTE B26 3MHz QPSK High Channel RB15-0



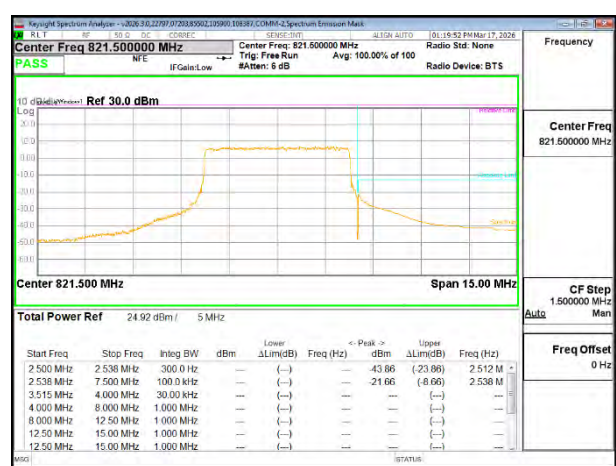
LTE B26 5MHz QPSK Low Channel RB1-0



LTE B26 5MHz QPSK High Channel RB1-24



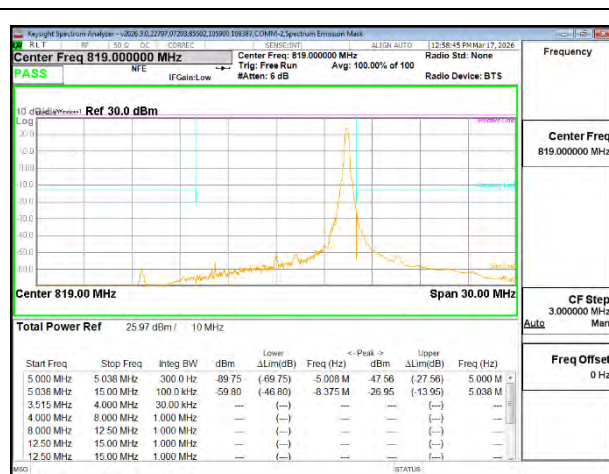
LTE B26 5MHz QPSK Low Channel RB25-0



LTE B26 5MHz QPSK High Channel RB25-0



LTE B26 10MHz QPSK Middle Channel RB1-0



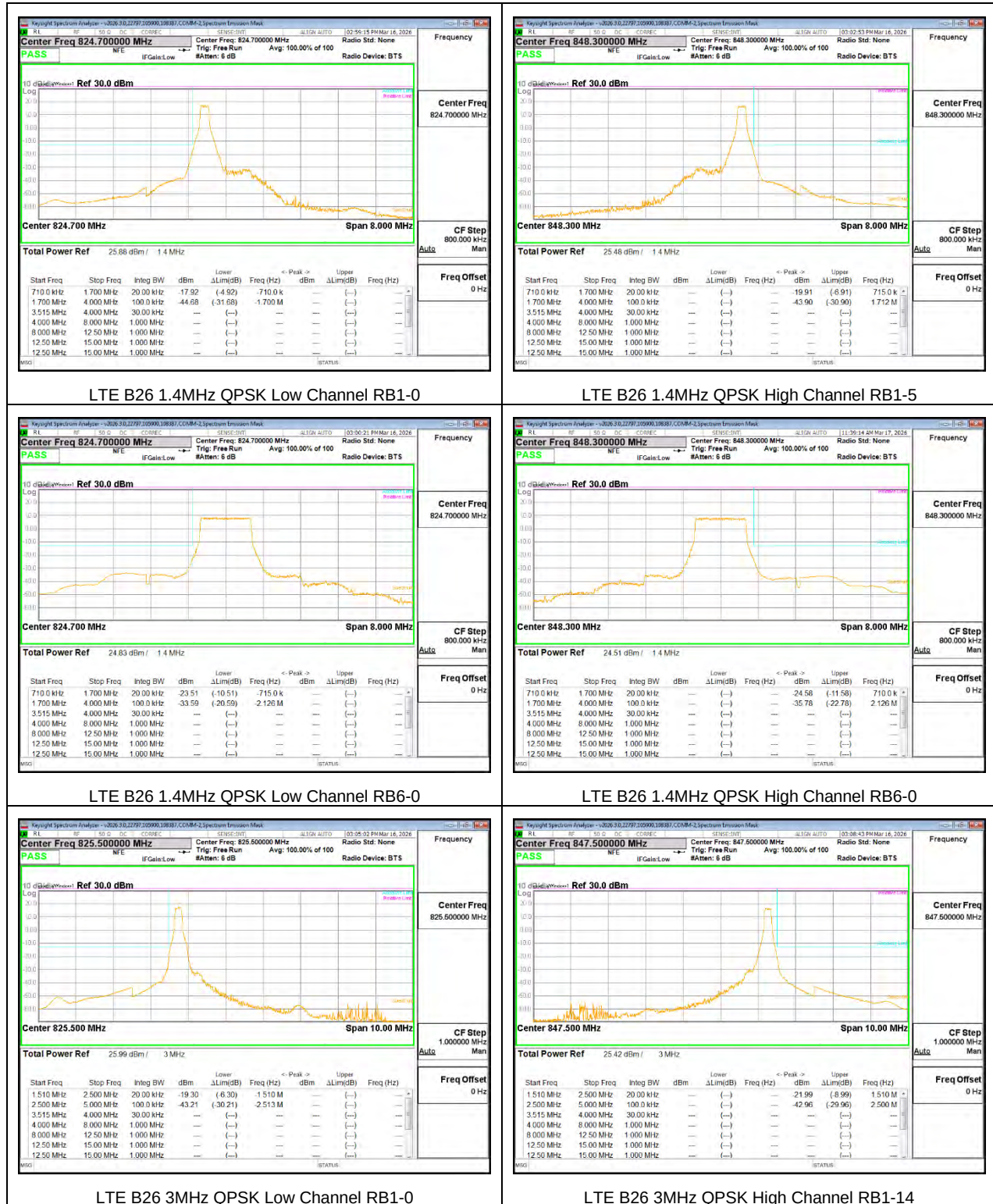
LTE B26 10MHz QPSK Middle Channel RB1-49

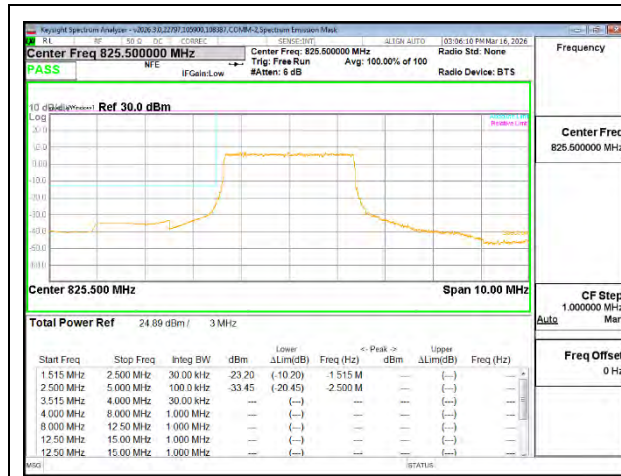


LTE B26 10MHz QPSK Middle Channel RB50-0

Intentionally Blank

8.2.2. LTE BAND 5&26 (FCC PART 22)

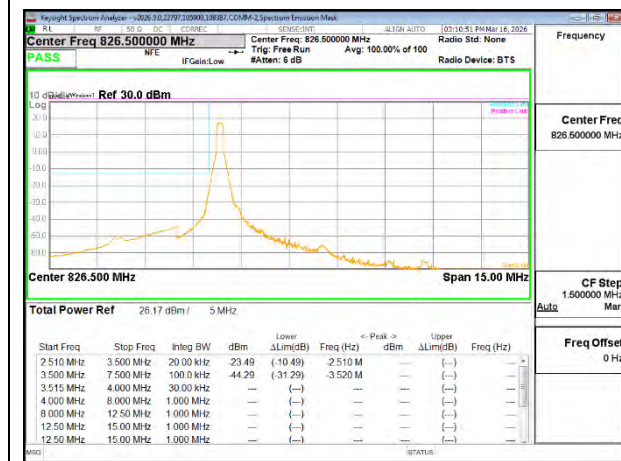




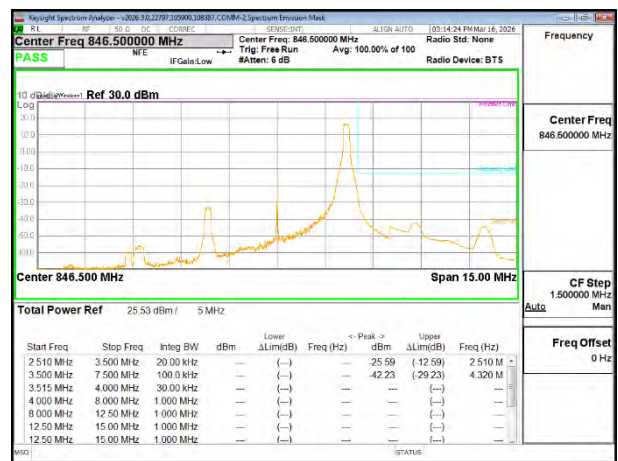
LTE B26 3MHz QPSK Low Channel RB15-0



LTE B26 3MHz QPSK High Channel RB15-0



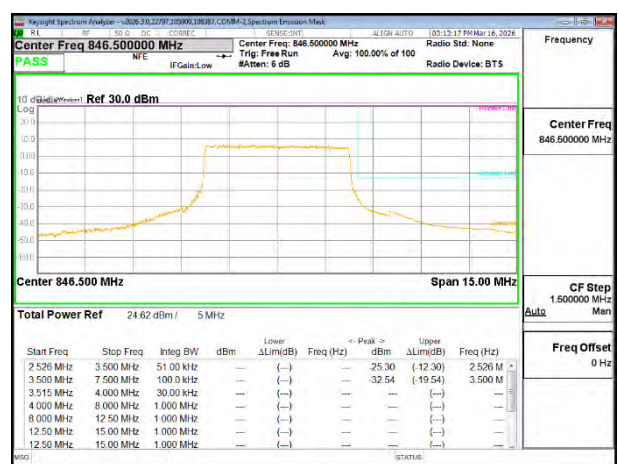
LTE B26 5MHz QPSK Low Channel RB1-0



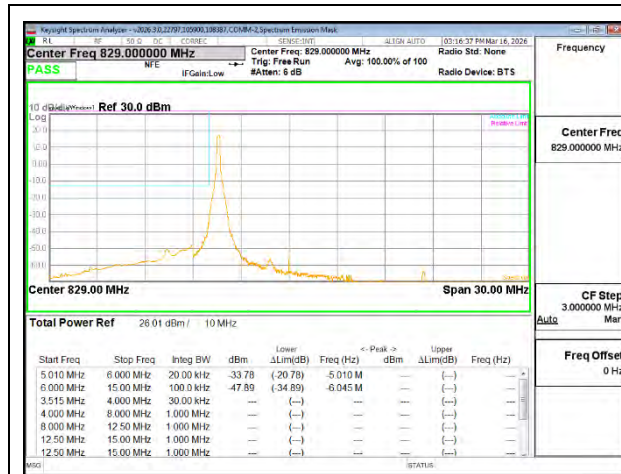
LTE B26 5MHz QPSK High Channel RB1-24



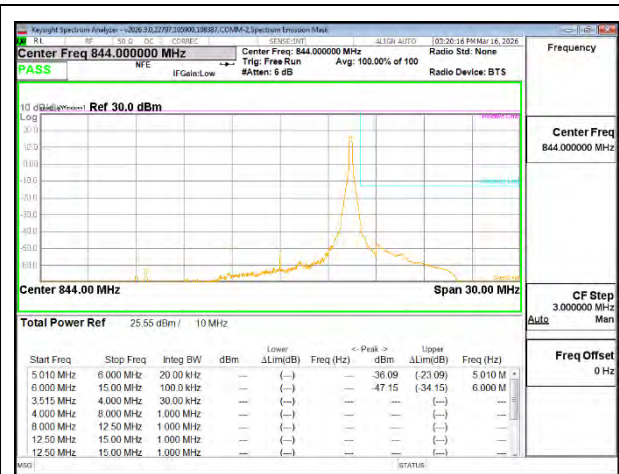
LTE B26 5MHz QPSK Low Channel RB25-0



LTE B26 5MHz QPSK High Channel RB25-0



LTE B26 10MHz QPSK Low Channel RB1-0



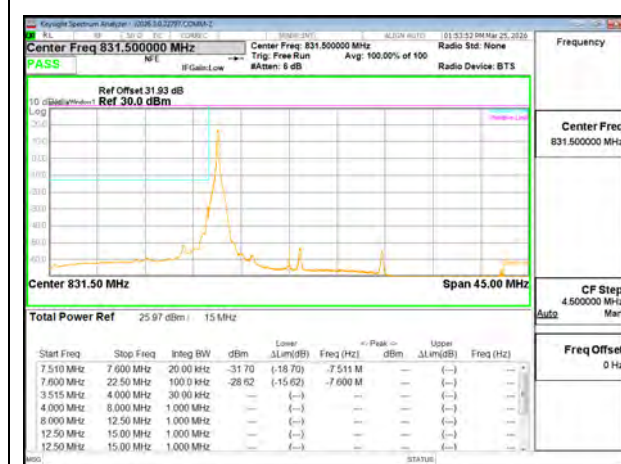
LTE B26 10MHz QPSK High Channel RB1-49



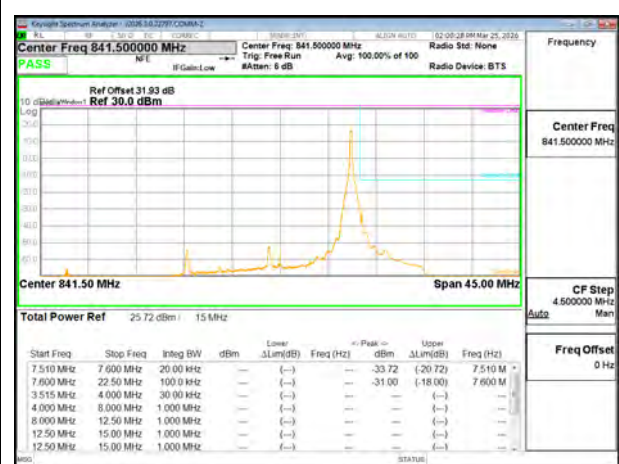
LTE B26 10MHz QPSK Low Channel RB50-0



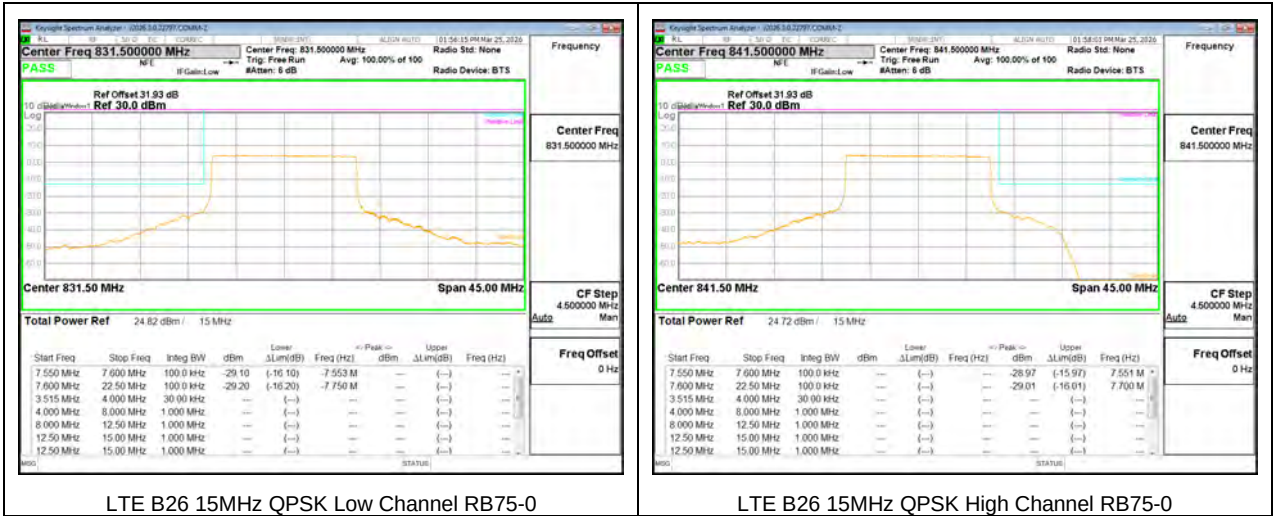
LTE B26 10MHz QPSK High Channel RB50-0



LTE B26 15MHz QPSK Low Channel RB1-0



LTE B26 15MHz QPSK High Channel RB1-74



KeySight Spectrum Analyzer - 0208.16.22797 CONNA-2

SPAN: 200% ALLOW AUTO 01:58:53 PM Mhz 26.2026

Center Freq 841.500000 MHz

Center Freq: 841.500000 MHz

Trig: Free Run

Avg: 100.00% of 100

Radio Std: None

Radio Device: BTS

PASS

Ref Offset 31.93 dB

Ref 30.0 dBm

Center Freq 841.50 MHz

Span 45.00 MHz

Total Power Ref 24.72 dBm / 15 MHz

CF Step 4.500000 MHz

Auto

Man

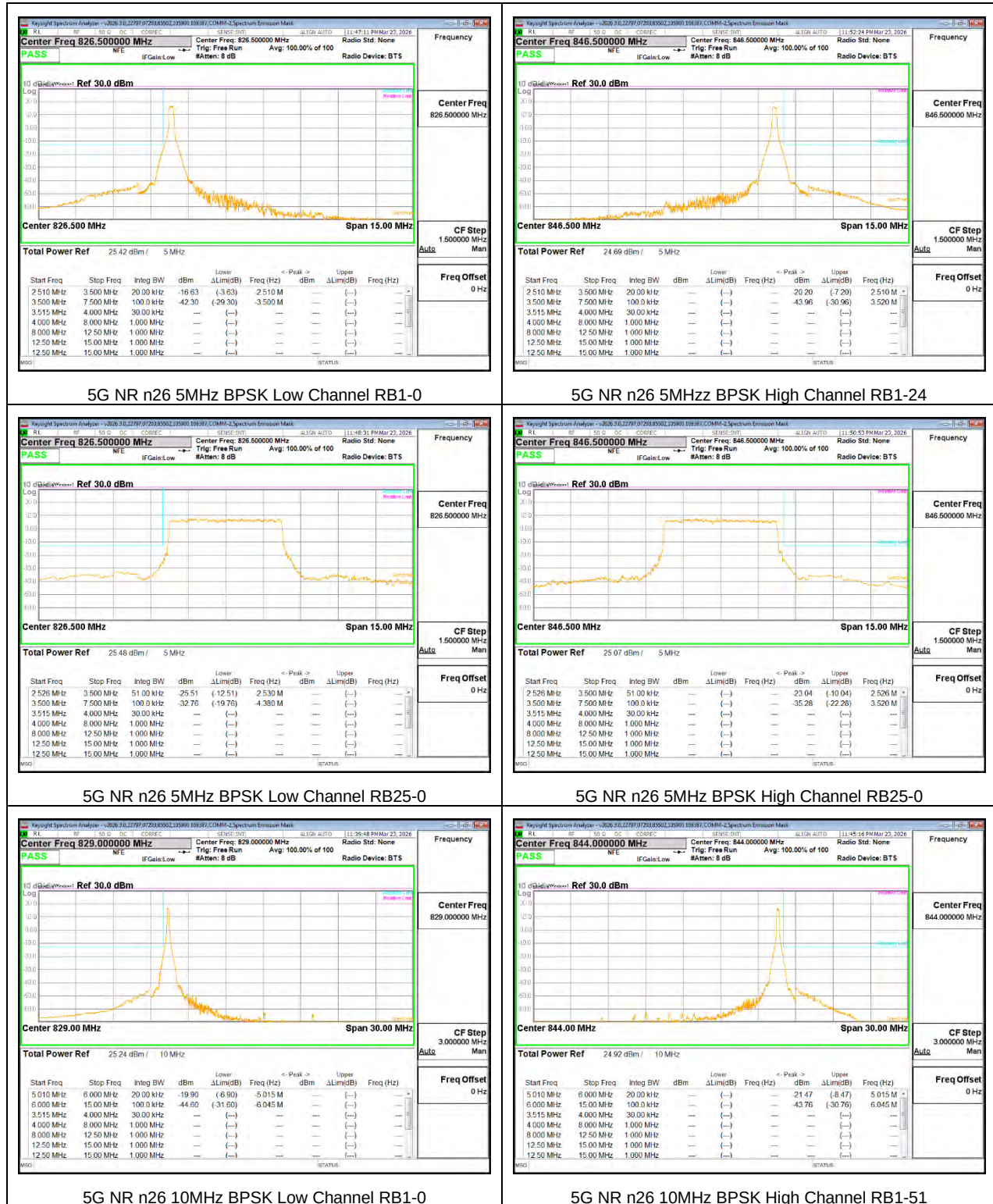
Freq Offset 0 Hz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)
7.550 MHz	7.600 MHz	100.0 kHz	---	(---)	---	-26.97	(-15.97)	7.551 M
7.600 MHz	22.50 MHz	100.0 kHz	---	(---)	---	-29.01	(-16.01)	7.700 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

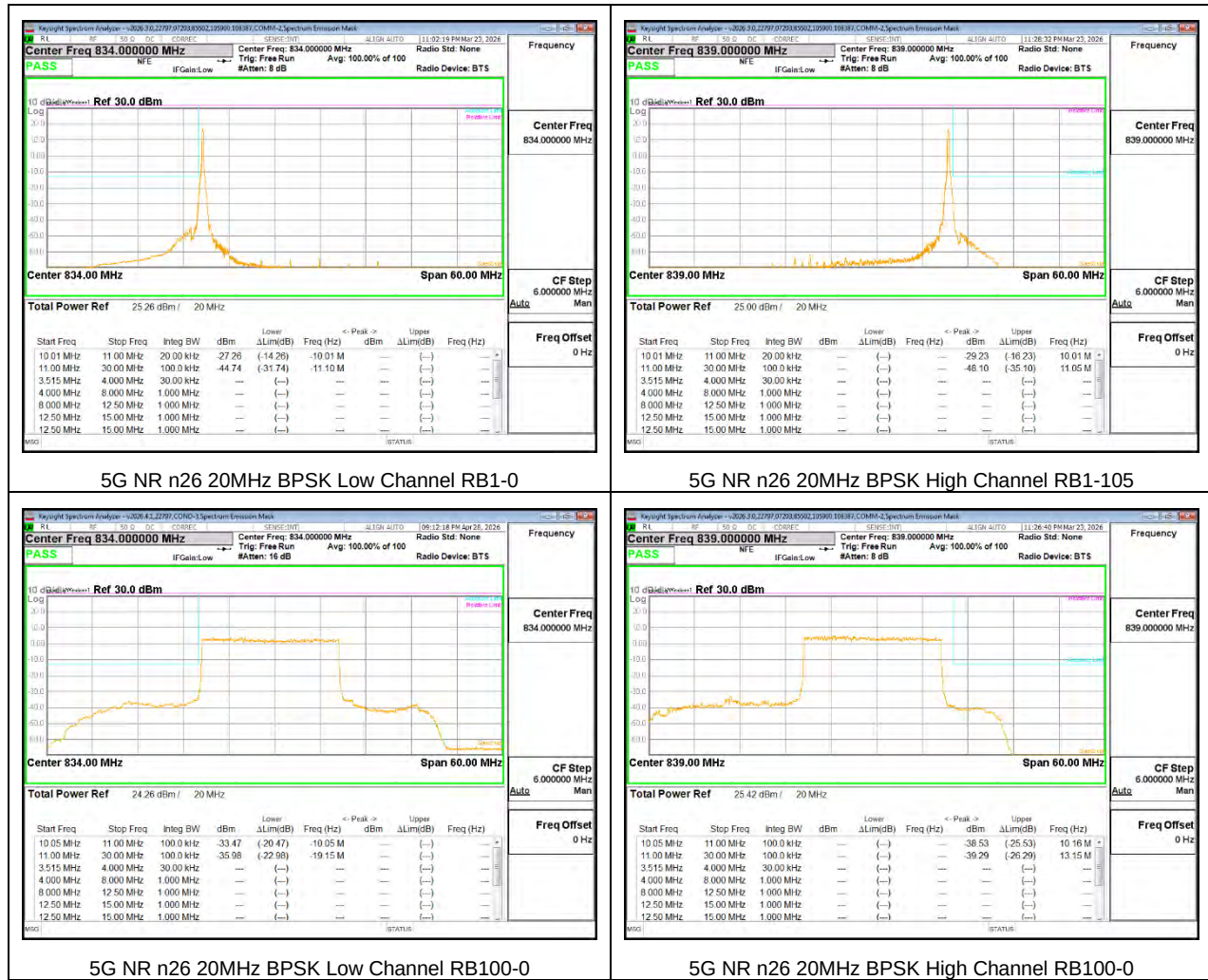
STATUS

LTE B26 15MHz QPSK High Channel RB75-0

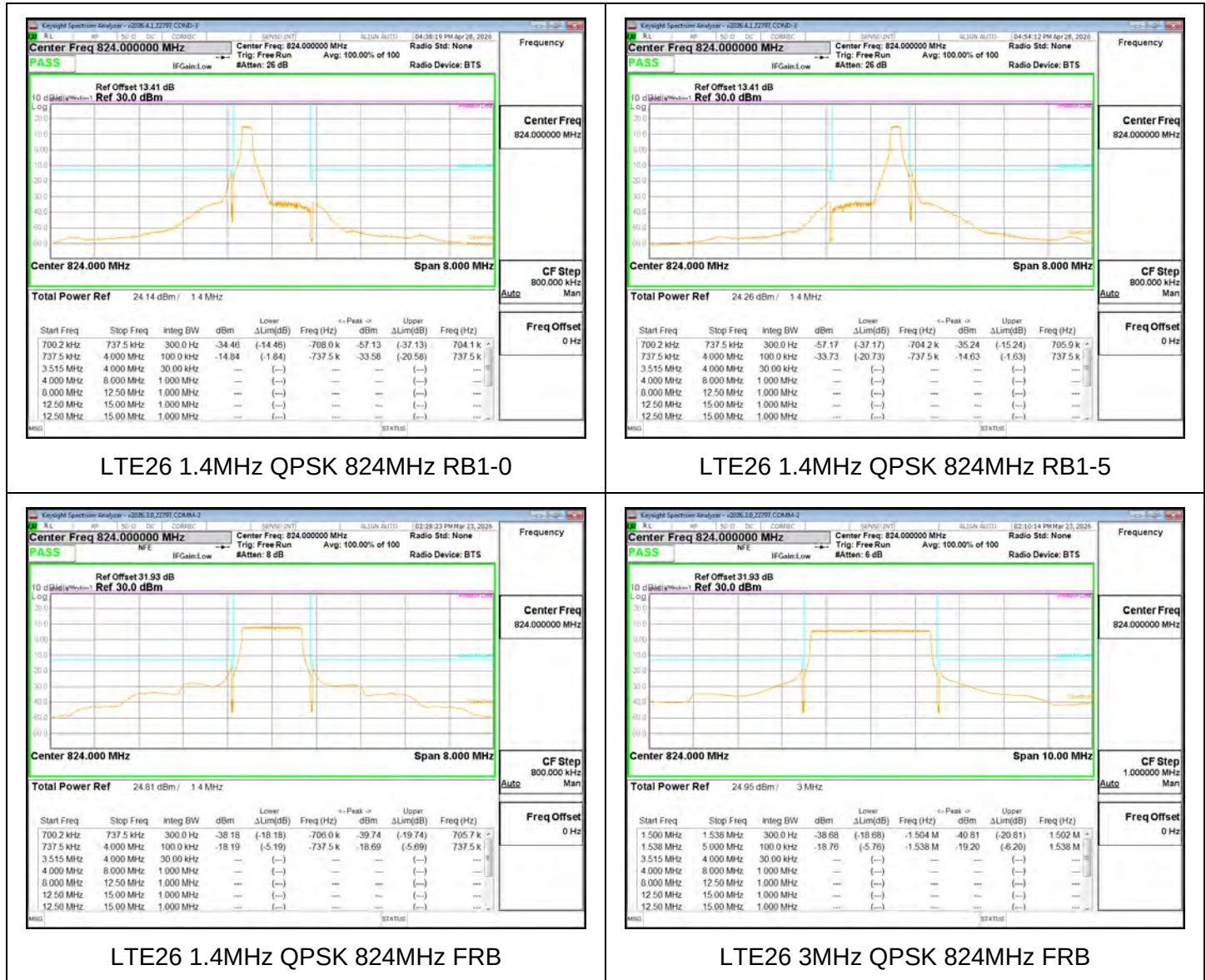
8.2.3. 5G NR 5MHz (FCC PART 22)

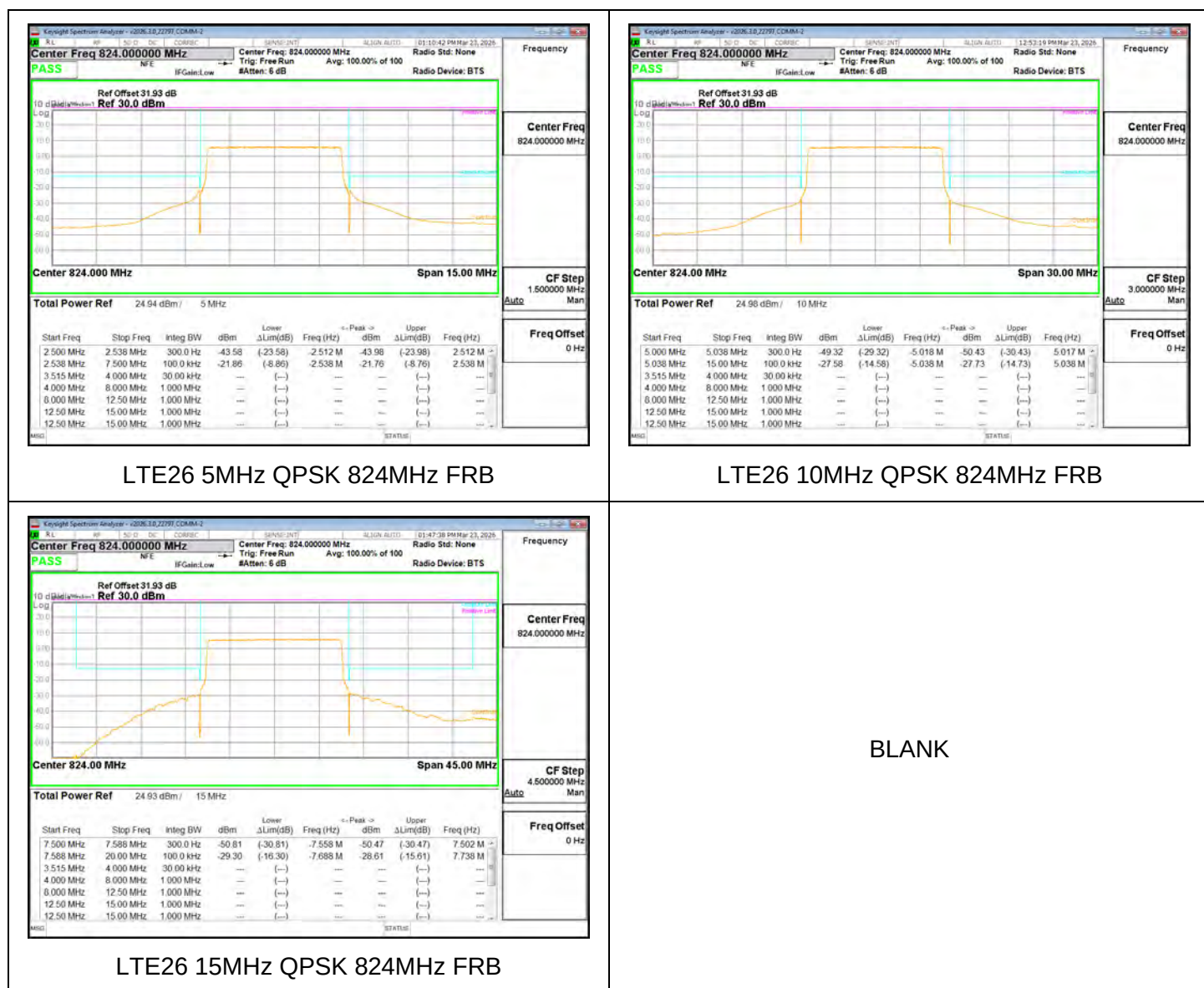






8.2.4. LTE BAND 5&26 (Straddle)





Note: Worst-Case FRB mode was tested for 1RB mode(s)

8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §22.917

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

FCC: §90.691

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

RSS132§5.5

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

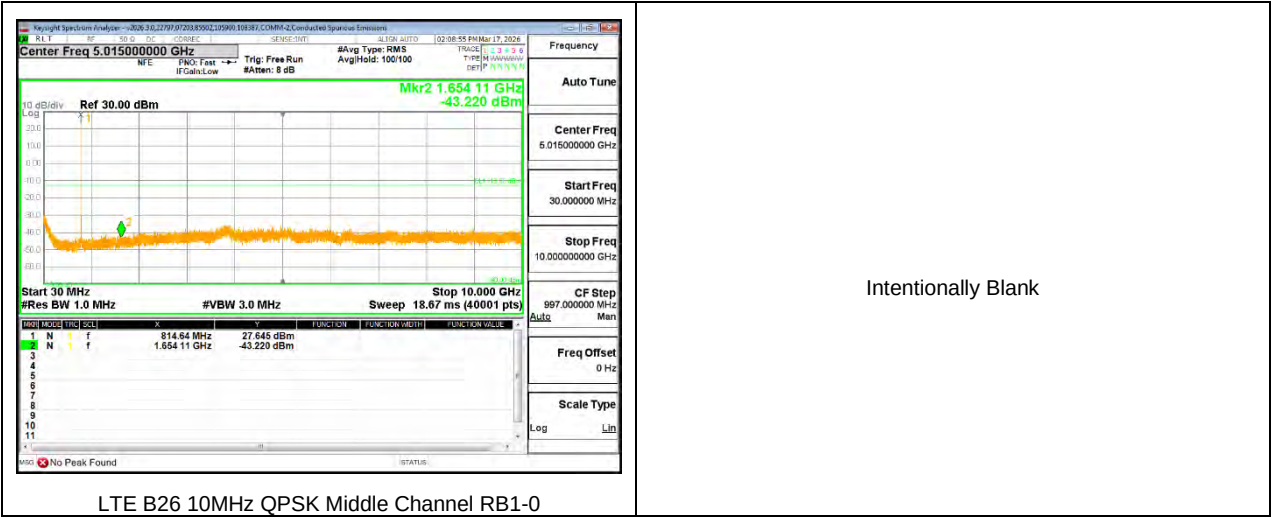
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case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

For each out of band emissions measurement:

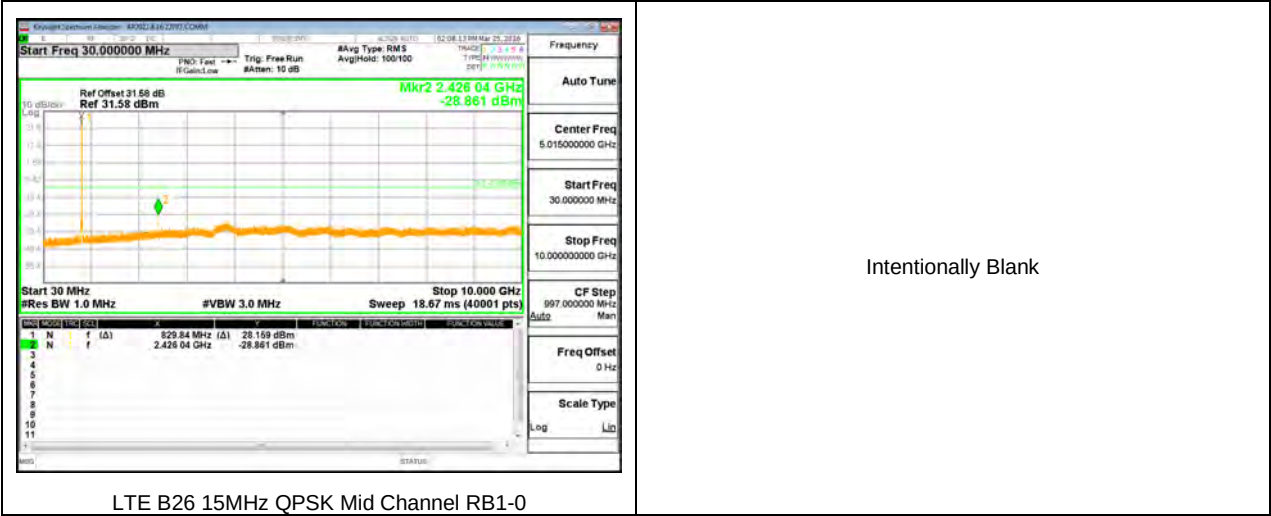
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

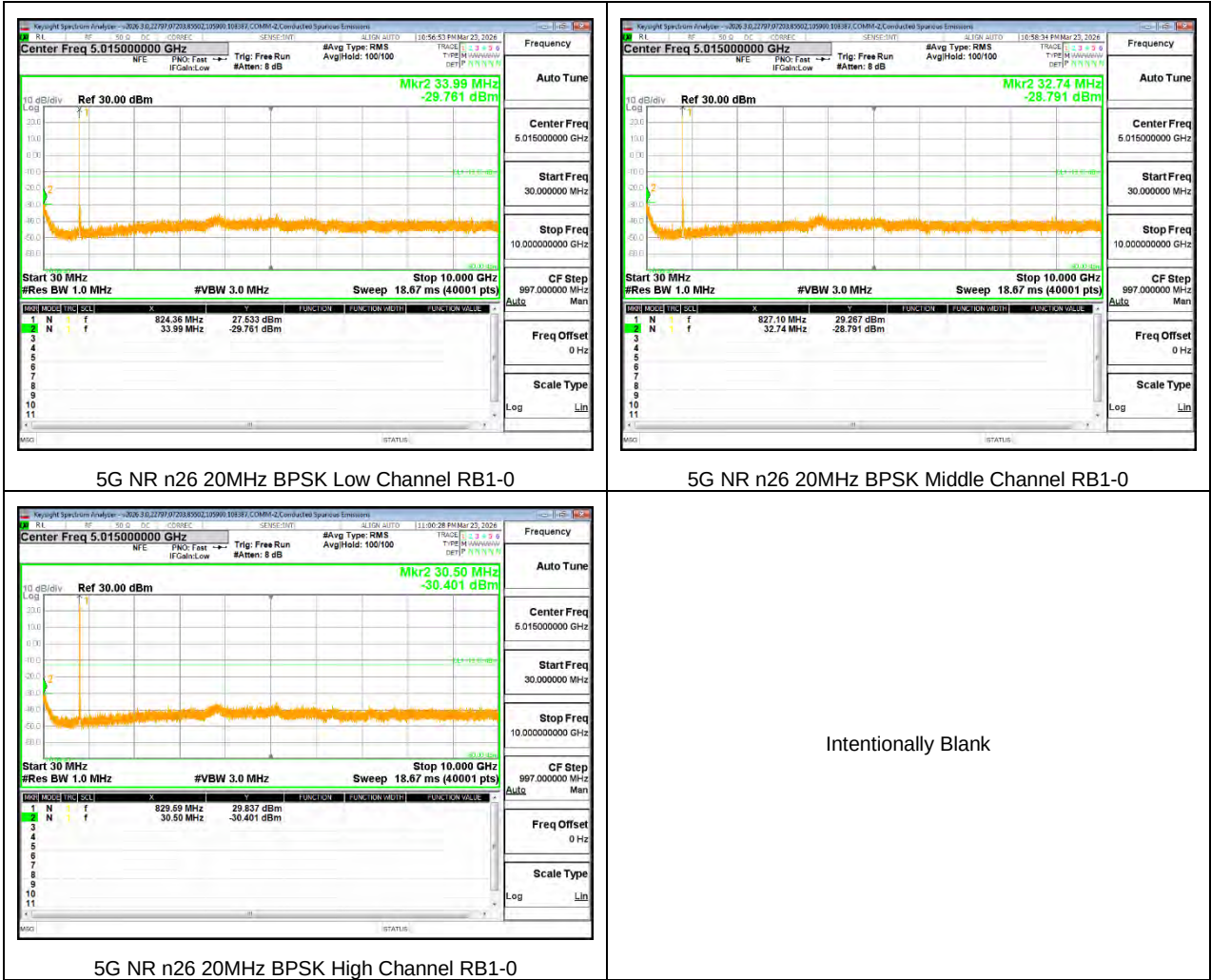
8.3.1. LTE BAND 26 (FCC PART 90S)



8.3.2. LTE BAND 5&26 (FCC PART 22)



8.3.3. 5G NR n5&n26 (FCC PART 22)



8.4. FREQUENCY LIMITS

FCC: §22.355

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC: §90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

ISED: RSS132§5.3

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within each of the sub-bands when tested at the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

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

Low voltage, 3.7VDC, Normal, 3.89VDC and High voltage, 4.45VDC.

End Voltage, 3.7VDC.

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.

Test Engineer ID:	105900/84740	Test Date:	2026-03-08 – 2026-04-08
--------------------------	--------------	-------------------	-------------------------

8.4.1. LTE BAND 5&26 (QPSK 10MHz BANDWIDTH, FCC PART 22)

Band	26	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		814	849		2.5	
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	816.4563	855.0750			
Extreme (50°C)		816.4563	855.0750	3.19	0.004	Yes
Extreme (40°C)		816.4563	855.0750	4.4	0.005	Yes
Extreme (30°C)		816.4563	855.0750	2.48	0.003	Yes
Extreme (10°C)		816.4563	855.0750	3.1	0.004	Yes
Extreme (0°C)		816.4563	855.0750	2.5	0.003	Yes
Extreme (-10°C)		816.4563	855.0750	3.66	0.004	Yes
Extreme (-20°C)		816.4563	855.0750	3.8	0.005	Yes
Extreme (-30°C)		816.4563	855.0750	5.42	0.007	Yes
20°C	End Point Voltage	816.4563	855.0750	2.37	0.003	Yes

8.4.2. 5G NR n5&n26 (BPSK 20MHz BANDWIDTH, FCC PART 22)

Band	26	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		814	849		2.5	
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	812.0250	850.2188			
Extreme (50°C)		812.0250	850.2188	0.0085	0.000	Yes
Extreme (40°C)		812.0250	850.2188	0.0045	0.000	Yes
Extreme (30°C)		812.0250	850.2188	0.00644	0.000	Yes
Extreme (10°C)		812.0250	850.2188	0.0097	0.000	Yes
Extreme (0°C)		812.0250	850.2188	0.0048	0.000	Yes
Extreme (-10°C)		812.0250	850.2188	0.0088	0.000	Yes
Extreme (-20°C)		812.0250	850.2188	0.0052	0.000	Yes
Extreme (-30°C)		812.0250	850.2188	0.007	0.000	Yes
20°C	End Point Voltage	812.0250	850.2188	0.005	0.000	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

FCC: §22.913 (d)

The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

ISED: RSS132§5.4

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 using a signal corresponding to the highest PAPR during periods of continuous transmission.

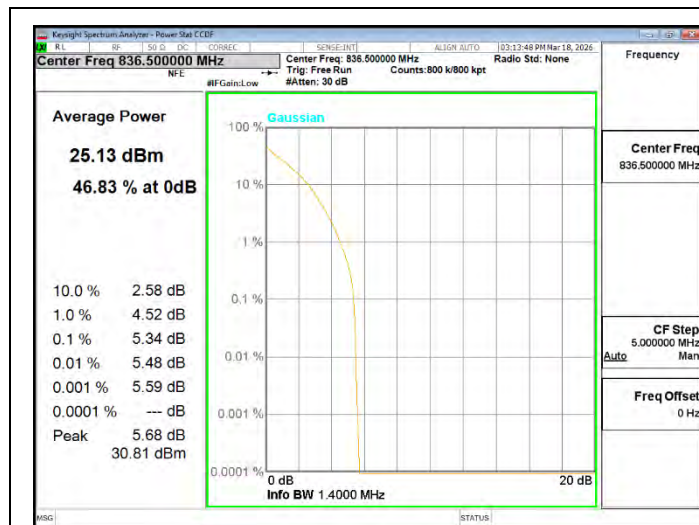
Test Procedure

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

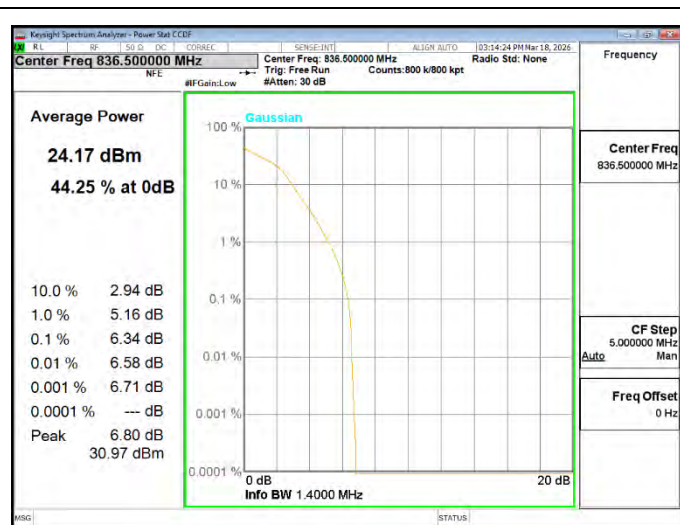
RESULT

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.

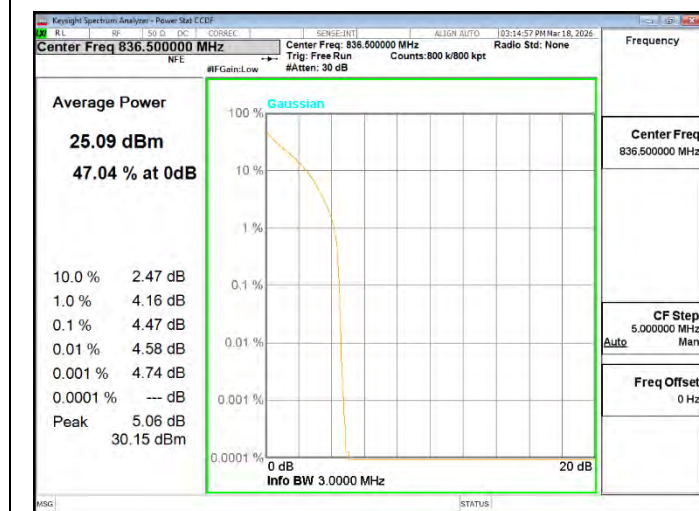
8.5.1. LTE BAND 26 (FCC PART 90S)



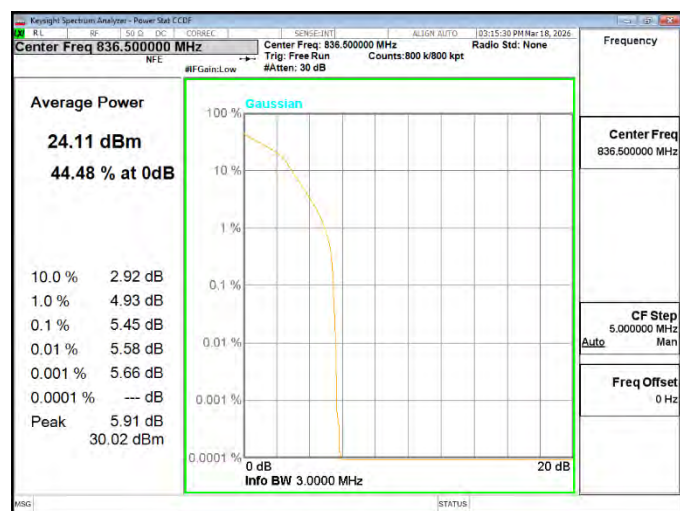
LTE Band 26 QPSK 1.4MHz FRB



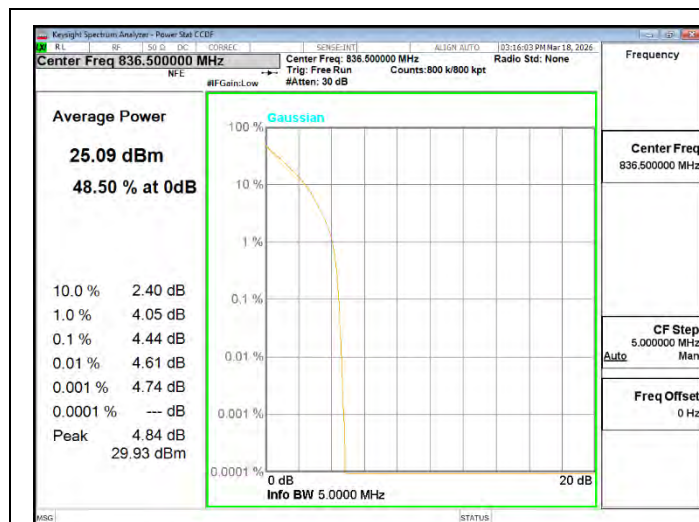
LTE Band 26 16QAM 1.4MHz FRB



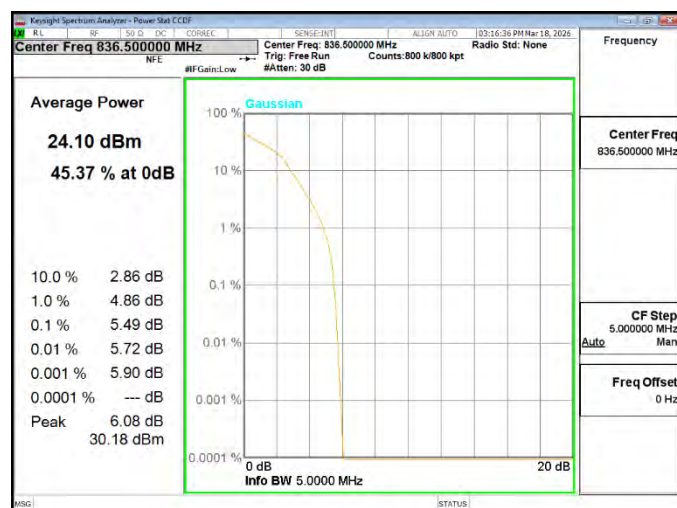
LTE Band 26 QPSK 3MHz FRB



LTE Band 26 16QAM 3MHz FRB



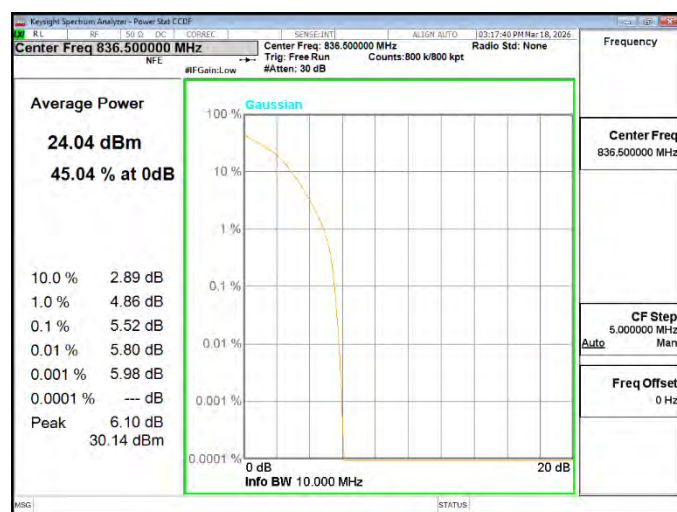
LTE Band 26 QPSK 5MHz FRB



LTE Band 26 16QAM 5MHz FRB



LTE Band 26 QPSK 10MHz FRB



LTE Band 26 16QAM 10MHz FRB

8.5.2. LTE BAND 5&26 (FCC PART 22)

Test Engineer ID:	105900/84740	Test Date:	2026-03-26 – 2026-03-27
--------------------------	--------------	-------------------	-------------------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power
						Peak	Average	
LTE Band 26 (FCC Part 22)	1.4MHz	836.5	6	0	QPSK	28.56	23.96	4.60
					16QAM	28.85	22.99	5.86
	3MHz		15	0	QPSK	27.82	24.04	3.78
					16QAM	27.88	23.04	4.84
	5MHz		25	0	QPSK	27.94	24.00	3.94
					16QAM	28.09	23.04	5.05
	10MHz		50	0	QPSK	27.98	24.04	3.94
					16QAM	28.3	23.02	5.28
	15MHz		75	0	QPSK	27.44	24.01	3.43
					16QAM	27.46	23.16	4.30
Duty Cycle Correction Factor (dB)								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.3. 5G NR n5&n26 (FCC PART 22)

Test Engineer ID:	105900/84740	Test Date:	2026-03-26 – 2026-03-27
--------------------------	--------------	-------------------	-------------------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power
						Peak	Average	
5G NR n26 (FCC Part 22)	5MHz	836.5	25	0	BPSK	27.9	23.57	4.33
					16QAM	27.65	21.92	5.73
	10MHz		50	0	BPSK	27.64	23.52	4.12
					16QAM	27.57	21.96	5.61
	15MHz		75	0	BPSK	27.65	23.52	4.13
					16QAM	27.53	21.91	5.62
	20MHz		100	0	BPSK	27.67	23.42	4.25
					16QAM	27.67	21.9	5.77
Duty Cycle Correction Factor (dB)								
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.

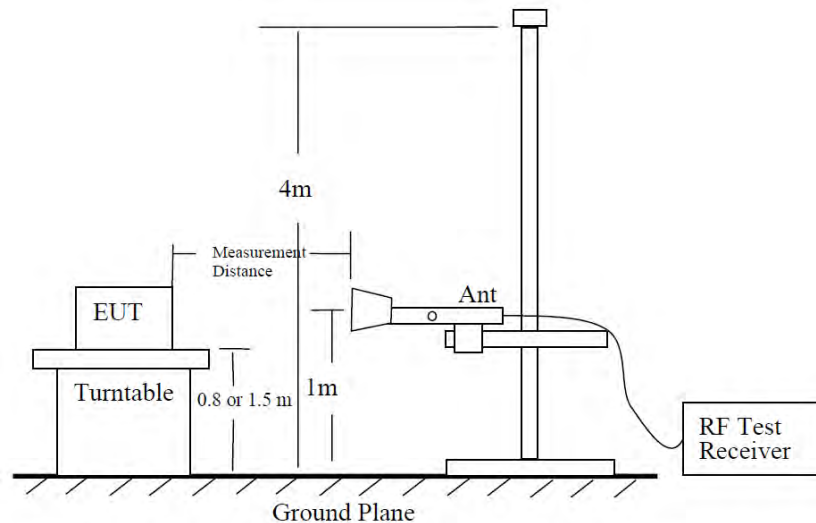


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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, §90.635 (b), §22.913

LIMITS

22.913 (a)(5) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

§90.635 (b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). Power is given in terms of effective radiated power (ERP).

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

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) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- h) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

9.1.1. LTE BAND 26 (FCC PART 90S)

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
814.7	LTE26(90s) / 1.4 MHz (ANT A+C)	RB1-0	QPSK	0.088	19.44	38.45	-19.01
819.0		RB1-3	QPSK	0.088	19.44	38.45	-19.01
823.3		RB1-5	QPSK	0.085	19.31	38.45	-19.14
814.7		RB1-0	16QAM	0.067	18.23	38.45	-20.22
819.0		RB1-3	16QAM	0.066	18.20	38.45	-20.25
823.3		RB1-5	16QAM	0.068	18.30	38.45	-20.15
815.5	LTE26(90s) / 3 MHz (ANT A+C)	RB1-0	QPSK	0.090	19.52	38.45	-18.93
819.0		RB1-8	QPSK	0.090	19.52	38.45	-18.93
822.5		RB1-14	QPSK	0.086	19.33	38.45	-19.12
815.5		RB1-0	16QAM	0.067	18.28	38.45	-20.17
819.0		RB1-8	16QAM	0.063	18.02	38.45	-20.43
822.5		RB1-14	16QAM	0.068	18.33	38.45	-20.12
816.5	LTE26(90s) / 5 MHz (ANT A+C)	RB1-0	QPSK	0.091	19.57	38.45	-18.88
819.0		RB1-12	QPSK	0.091	19.57	38.45	-18.88
821.5		RB1-24	QPSK	0.087	19.41	38.45	-19.04
816.5		RB1-0	16QAM	0.069	18.37	38.45	-20.08
819.0		RB1-12	16QAM	0.067	18.29	38.45	-20.16
821.5		RB1-24	16QAM	0.068	18.32	38.45	-20.13
819.0	LTE26(90s) / 10 MHz (ANT A+C)	RB1-0	QPSK	0.070	18.43	38.45	-20.02
819.0		RB1-25	QPSK	0.076	18.81	38.45	-19.64
819.0		RB1-49	QPSK	0.086	19.33	38.45	-19.12
819.0		RB1-0	16QAM	0.062	17.90	38.45	-20.55
819.0		RB1-25	16QAM	0.066	18.21	38.45	-20.24
819.0		RB1-49	16QAM	0.062	17.93	38.45	-20.52

CONFIG 0

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
814.7	LTE26(90s) / 1.4 MHz (ANT E)	RB1-0	QPSK	0.072	18.57	38.45	-19.88
819.0		RB1-3	QPSK	0.072	18.57	38.45	-19.88
823.3		RB1-5	QPSK	0.068	18.32	38.45	-20.13
814.7		RB1-0	16QAM	0.066	18.18	38.45	-20.27
819.0		RB1-3	16QAM	0.066	18.18	38.45	-20.27
823.3		RB1-5	16QAM	0.063	18.01	38.45	-20.44
815.5	LTE26(90s) / 3 MHz (ANT E)	RB1-0	QPSK	0.071	18.49	38.45	-19.96
819.0		RB1-8	QPSK	0.071	18.49	38.45	-19.96
822.5		RB1-14	QPSK	0.067	18.29	38.45	-20.16
815.5		RB1-0	16QAM	0.068	18.31	38.45	-20.14
819.0		RB1-8	16QAM	0.069	18.38	38.45	-20.07
822.5		RB1-14	16QAM	0.063	17.99	38.45	-20.46
816.5	LTE26(90s) / 5 MHz (ANT E)	RB1-0	QPSK	0.071	18.51	38.45	-19.94
819.0		RB1-12	QPSK	0.071	18.51	38.45	-19.94
821.5		RB1-24	QPSK	0.069	18.38	38.45	-20.07
816.5		RB1-0	16QAM	0.054	17.32	38.45	-21.13
819.0		RB1-12	16QAM	0.060	17.75	38.45	-20.70
821.5		RB1-24	16QAM	0.061	17.84	38.45	-20.61
819.0	LTE26(90s) / 10 MHz (ANT E)	RB1-0	QPSK	0.062	17.92	38.45	-20.53
819.0		RB1-25	QPSK	0.064	18.09	38.45	-20.36
819.0		RB1-49	QPSK	0.069	18.40	38.45	-20.05
819.0		RB1-0	16QAM	0.053	17.21	38.45	-21.24
819.0		RB1-25	16QAM	0.055	17.41	38.45	-21.04
819.0		RB1-49	16QAM	0.058	17.64	38.45	-20.81

CONFIG 1

9.1.2. LTE BAND 5&26 (FCC PART 22)

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-29
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.7	LTE26(22) / 1.4 MHz	RB1-0	QPSK	0.093	19.68	38.45	-18.77
836.5		RB1-3	QPSK	0.093	19.68	38.45	-18.77
848.3		RB1-5	QPSK	0.091	19.60	38.45	-18.85
824.7		RB1-0	16QAM	0.077	18.86	38.45	-19.59
836.5		RB1-3	16QAM	0.077	18.86	38.45	-19.59
848.3		RB1-5	16QAM	0.076	18.79	38.45	-19.66
825.5	LTE26(22) / 3 MHz	RB1-0	QPSK	0.093	19.68	38.45	-18.77
836.5		RB1-8	QPSK	0.093	19.68	38.45	-18.77
847.5		RB1-14	QPSK	0.090	19.53	38.45	-18.92
825.5		RB1-0	16QAM	0.077	18.88	38.45	-19.57
836.5		RB1-8	16QAM	0.077	18.88	38.45	-19.57
847.5		RB1-14	16QAM	0.075	18.72	38.45	-19.73
826.5	LTE26(22) / 5 MHz	RB1-0	QPSK	0.094	19.74	38.45	-18.71
836.5		RB1-12	QPSK	0.094	19.74	38.45	-18.71
846.5		RB1-24	QPSK	0.091	19.58	38.45	-18.87
826.5		RB1-0	16QAM	0.077	18.87	38.45	-19.58
836.5		RB1-12	16QAM	0.077	18.87	38.45	-19.58
846.5		RB1-24	16QAM	0.074	18.70	38.45	-19.75
829.0	LTE26(22) / 10 MHz	RB1-0	QPSK	0.093	19.66	38.45	-18.79
836.5		RB1-25	QPSK	0.093	19.66	38.45	-18.79
844.0		RB1-49	QPSK	0.089	19.51	38.45	-18.94
829.0		RB1-0	16QAM	0.074	18.67	38.45	-19.78
836.5		RB1-25	16QAM	0.074	18.67	38.45	-19.78
844.0		RB1-49	16QAM	0.073	18.63	38.45	-19.82
831.5	LTE26(22) / 15 MHz	RB1-0	QPSK	0.079	18.98	38.45	-19.47
836.5		RB1-37	QPSK	0.091	19.58	38.45	-18.87
841.5		RB1-74	QPSK	0.077	18.87	38.45	-19.58
831.5		RB1-0	16QAM	0.065	18.16	38.45	-20.29
836.5		RB1-37	16QAM	0.074	18.70	38.45	-19.75
841.5		RB1-74	16QAM	0.064	18.06	38.45	-20.39

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.0	LTE26 Straddle / 1.4 MHz (ANT A+C)	RB1-0	QPSK	0.080	19.05	38.45	-19.40
824.0		RB1-3	QPSK	0.079	19.00	38.45	-19.45
824.0		RB1-5	QPSK	0.080	19.01	38.45	-19.44
824.0		RB1-0	16QAM	0.073	18.66	38.45	-19.79
824.0		RB1-3	16QAM	0.074	18.69	38.45	-19.76
824.0		RB1-5	16QAM	0.073	18.61	38.45	-19.84
824.0	LTE26 Straddle / 3 MHz (ANT A+C)	RB1-0	QPSK	0.083	19.18	38.45	-19.27
824.0		RB1-8	QPSK	0.080	19.05	38.45	-19.40
824.0		RB1-14	QPSK	0.083	19.20	38.45	-19.25
824.0		RB1-0	16QAM	0.055	17.39	38.45	-21.06
824.0		RB1-8	16QAM	0.058	17.62	38.45	-20.83
824.0		RB1-14	16QAM	0.074	18.69	38.45	-19.76
824.0	LTE26 Straddle / 5 MHz (ANT A+C)	RB1-0	QPSK	0.087	19.38	38.45	-19.07
824.0		RB1-12	QPSK	0.081	19.10	38.45	-19.35
824.0		RB1-24	QPSK	0.080	19.05	38.45	-19.40
824.0		RB1-0	16QAM	0.055	17.39	38.45	-21.06
824.0		RB1-12	16QAM	0.057	17.53	38.45	-20.92
824.0		RB1-24	16QAM	0.074	18.68	38.45	-19.77
824.0	LTE26 Straddle / 10 MHz (ANT A+C)	RB1-0	QPSK	0.077	18.84	38.45	-19.61
824.0		RB1-25	QPSK	0.071	18.50	38.45	-19.95
824.0		RB1-49	QPSK	0.082	19.14	38.45	-19.31
824.0		RB1-0	16QAM	0.064	18.03	38.45	-20.42
824.0		RB1-25	16QAM	0.062	17.92	38.45	-20.53
824.0		RB1-49	16QAM	0.070	18.46	38.45	-19.99
824.0	LTE26 Straddle / 15 MHz (ANT A+C)	RB1-0	QPSK	0.059	17.70	38.45	-20.75
824.0		RB1-37	QPSK	0.058	17.60	38.45	-20.85
824.0		RB1-74	QPSK	0.070	18.44	38.45	-20.01
824.0		RB1-0	16QAM	0.043	16.37	38.45	-22.08
824.0		RB1-37	16QAM	0.048	16.81	38.45	-21.64
824.0		RB1-74	16QAM	0.059	17.70	38.45	-20.75

CONFIG 0

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-29
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.7	LTE26(22) / 1.4 MHz (ANT E)	RB1-0	QPSK	0.064	18.05	38.45	-20.40
836.5		RB1-3	QPSK	0.065	18.13	38.45	-20.32
848.3		RB1-5	QPSK	0.064	18.08	38.45	-20.37
824.7		RB1-0	16QAM	0.057	17.54	38.45	-20.91
836.5		RB1-3	16QAM	0.058	17.64	38.45	-20.81
848.3		RB1-5	16QAM	0.056	17.50	38.45	-20.95
825.5	LTE26(22) / 3 MHz (ANT E)	RB1-0	QPSK	0.064	18.06	38.45	-20.39
836.5		RB1-8	QPSK	0.064	18.07	38.45	-20.38
847.5		RB1-14	QPSK	0.064	18.04	38.45	-20.41
825.5		RB1-0	16QAM	0.057	17.57	38.45	-20.88
836.5		RB1-8	16QAM	0.059	17.73	38.45	-20.72
847.5		RB1-14	16QAM	0.057	17.56	38.45	-20.89
826.5	LTE26(22) / 5 MHz (ANT E)	RB1-0	QPSK	0.066	18.18	38.45	-20.27
836.5		RB1-12	QPSK	0.065	18.12	38.45	-20.33
846.5		RB1-24	QPSK	0.065	18.16	38.45	-20.29
826.5		RB1-0	16QAM	0.057	17.55	38.45	-20.90
836.5		RB1-12	16QAM	0.058	17.60	38.45	-20.85
846.5		RB1-24	16QAM	0.058	17.64	38.45	-20.81
829.0	LTE26(22) / 10 MHz (ANT E)	RB1-0	QPSK	0.062	17.93	38.45	-20.52
836.5		RB1-25	QPSK	0.064	18.07	38.45	-20.38
844.0		RB1-49	QPSK	0.066	18.22	38.45	-20.23
829.0		RB1-0	16QAM	0.055	17.44	38.45	-21.01
836.5		RB1-25	16QAM	0.056	17.47	38.45	-20.98
844.0		RB1-49	16QAM	0.056	17.49	38.45	-20.96
831.5	LTE26(22) / 15 MHz (ANT E)	RB1-0	QPSK	0.071	18.51	38.45	-19.94
836.5		RB1-37	QPSK	0.068	18.35	38.45	-20.10
841.5		RB1-74	QPSK	0.058	17.64	38.45	-20.81
831.5		RB1-0	16QAM	0.058	17.61	38.45	-20.84
836.5		RB1-37	16QAM	0.056	17.48	38.45	-20.97
841.5		RB1-74	16QAM	0.046	16.67	38.45	-21.78

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.0	LTE26 Straddle / 1.4 MHz (ANT E)	RB1-0	QPSK	0.066	18.17	38.45	-20.28
824.0		RB1-3	QPSK	0.065	18.16	38.45	-20.29
824.0		RB1-5	QPSK	0.068	18.32	38.45	-20.13
824.0		RB1-0	16QAM	0.050	16.97	38.45	-21.48
824.0		RB1-3	16QAM	0.050	16.95	38.45	-21.50
824.0		RB1-5	16QAM	0.050	16.95	38.45	-21.50
824.0	LTE26 Straddle / 3 MHz (ANT E)	RB1-0	QPSK	0.068	18.30	38.45	-20.15
824.0		RB1-8	QPSK	0.069	18.42	38.45	-20.03
824.0		RB1-14	QPSK	0.065	18.10	38.45	-20.35
824.0		RB1-0	16QAM	0.050	17.03	38.45	-21.42
824.0		RB1-8	16QAM	0.051	17.08	38.45	-21.37
824.0		RB1-14	16QAM	0.055	17.43	38.45	-21.02
824.0	LTE26 Straddle / 5 MHz (ANT E)	RB1-0	QPSK	0.066	18.21	38.45	-20.24
824.0		RB1-12	QPSK	0.069	18.40	38.45	-20.05
824.0		RB1-24	QPSK	0.067	18.23	38.45	-20.22
824.0		RB1-0	16QAM	0.051	17.04	38.45	-21.41
824.0		RB1-12	16QAM	0.050	17.00	38.45	-21.45
824.0		RB1-24	16QAM	0.055	17.42	38.45	-21.03
824.0	LTE26 Straddle / 10 MHz (ANT E)	RB1-0	QPSK	0.060	17.80	38.45	-20.65
824.0		RB1-25	QPSK	0.067	18.24	38.45	-20.21
824.0		RB1-49	QPSK	0.064	18.09	38.45	-20.36
824.0		RB1-0	16QAM	0.050	16.99	38.45	-21.46
824.0		RB1-25	16QAM	0.055	17.42	38.45	-21.03
824.0		RB1-49	16QAM	0.053	17.25	38.45	-21.20
824.0	LTE26 Straddle / 15 MHz (ANT E)	RB1-0	QPSK	0.058	17.67	38.45	-20.78
824.0		RB1-37	QPSK	0.058	17.60	38.45	-20.85
824.0		RB1-74	QPSK	0.061	17.83	38.45	-20.62
824.0		RB1-0	16QAM	0.050	16.96	38.45	-21.49
824.0		RB1-37	16QAM	0.048	16.84	38.45	-21.61
824.0		RB1-74	16QAM	0.049	16.92	38.45	-21.53

CONFIG 1

9.1.3. 5G NR n5&n26 (FCC PART 22)

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-29
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
826.5	n26 (22) / 5MHz (ANT A+C)	RB1-1	BPSK	0.079	18.98	38.45	-19.47
836.5		RB1-12	BPSK	0.065	18.13	38.45	-20.32
846.5		RB1-23	BPSK	0.076	18.79	38.45	-19.66
826.5		RB1-1	16QAM	0.063	18.00	38.45	-20.45
836.5		RB1-12	16QAM	0.051	17.08	38.45	-21.37
846.5		RB1-23	16QAM	0.061	17.88	38.45	-20.57
829.0	n26 (22) / 10MHz (ANT A+C)	RB1-1	BPSK	0.077	18.85	38.45	-19.60
836.5		RB1-26	BPSK	0.078	18.94	38.45	-19.51
844.0		RB1-50	BPSK	0.075	18.72	38.45	-19.73
829.0		RB1-1	16QAM	0.061	17.87	38.45	-20.58
836.5		RB1-26	16QAM	0.063	18.02	38.45	-20.43
844.0		RB1-50	16QAM	0.060	17.75	38.45	-20.70
831.5	n26 (22) / 15MHz (ANT A+C)	RB1-1	BPSK	0.076	18.82	38.45	-19.63
836.5		RB1-39	BPSK	0.077	18.87	38.45	-19.58
841.5		RB1-77	BPSK	0.076	18.82	38.45	-19.63
831.5		RB1-1	16QAM	0.063	17.96	38.45	-20.49
836.5		RB1-39	16QAM	0.063	17.99	38.45	-20.46
841.5		RB1-77	16QAM	0.061	17.88	38.45	-20.57
834.0	n26 (22) / 20MHz (ANT A+C)	RB1-1	BPSK	0.076	18.81	38.45	-19.64
836.5		RB1-53	BPSK	0.065	18.16	38.45	-20.29
839.0		RB1-104	BPSK	0.065	18.15	38.45	-20.30
834.0		RB1-1	16QAM	0.061	17.82	38.45	-20.63
836.5		RB1-53	16QAM	0.051	17.10	38.45	-21.35
839.0		RB1-104	16QAM	0.051	17.06	38.45	-21.39

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.0	n26 Straddle / 5MHz (ANT A+C)	RB1-1	BPSK	0.069	18.37	38.45	-20.08
824.0		RB1-12	BPSK	0.069	18.42	38.45	-20.03
824.0		RB1-23	BPSK	0.068	18.34	38.45	-20.11
824.0		RB1-1	16QAM	0.052	17.16	38.45	-21.29
824.0		RB1-12	16QAM	0.056	17.51	38.45	-20.94
824.0		RB1-23	16QAM	0.053	17.24	38.45	-21.21
824.0	n26 Straddle / 10MHz (ANT A+C)	RB1-1	BPSK	0.061	17.84	38.45	-20.61
824.0		RB1-26	BPSK	0.064	18.09	38.45	-20.36
824.0		RB1-50	BPSK	0.068	18.35	38.45	-20.10
824.0		RB1-1	16QAM	0.047	16.75	38.45	-21.70
824.0		RB1-26	16QAM	0.050	16.99	38.45	-21.46
824.0		RB1-50	16QAM	0.054	17.30	38.45	-21.15
824.0	n26 Straddle / 15MHz (ANT A+C)	RB1-1	BPSK	0.053	17.23	38.45	-21.22
824.0		RB1-39	BPSK	0.067	18.27	38.45	-20.18
824.0		RB1-77	BPSK	0.063	18.01	38.45	-20.44
824.0		RB1-1	16QAM	0.042	16.25	38.45	-22.20
824.0		RB1-39	16QAM	0.053	17.21	38.45	-21.24
824.0		RB1-77	16QAM	0.051	17.05	38.45	-21.40
824.0	n26 Straddle / 20MHz (ANT A+C)	RB1-1	BPSK	0.054	17.30	38.45	-21.15
824.0		RB1-53	BPSK	0.057	17.55	38.45	-20.90
824.0		RB1-104	BPSK	0.064	18.06	38.45	-20.39
824.0		RB1-1	16QAM	0.042	16.21	38.45	-22.24
824.0		RB1-53	16QAM	0.043	16.34	38.45	-22.11
824.0		RB1-104	16QAM	0.048	16.85	38.45	-21.60

CONFIG 0

High Frequency Substitution Measurement
UL Morrisville Chamber 4

Company: Samsung
Project #: 16238088
Date: 2026-03-05 – 2026-04-29
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
826.5	n26 (22) / 5MHz (ANT E)	RB1-1	BPSK	0.071	18.49	38.45	-19.96
836.5		RB1-12	BPSK	0.071	18.50	38.45	-19.95
846.5		RB1-23	BPSK	0.069	18.37	38.45	-20.08
826.5		RB1-1	16QAM	0.056	17.48	38.45	-20.97
836.5		RB1-12	16QAM	0.057	17.53	38.45	-20.92
846.5		RB1-23	16QAM	0.055	17.38	38.45	-21.07
829.0	n26 (22) / 10MHz (ANT E)	RB1-1	BPSK	0.069	18.37	38.45	-20.08
836.5		RB1-26	BPSK	0.069	18.37	38.45	-20.08
844.0		RB1-50	BPSK	0.067	18.27	38.45	-20.18
829.0		RB1-1	16QAM	0.055	17.38	38.45	-21.07
836.5		RB1-26	16QAM	0.055	17.40	38.45	-21.05
844.0		RB1-50	16QAM	0.053	17.22	38.45	-21.23
831.5	n26 (22) / 15MHz (ANT E)	RB1-1	BPSK	0.068	18.31	38.45	-20.14
836.5		RB1-39	BPSK	0.069	18.40	38.45	-20.05
841.5		RB1-77	BPSK	0.069	18.36	38.45	-20.09
831.5		RB1-1	16QAM	0.055	17.40	38.45	-21.05
836.5		RB1-39	16QAM	0.054	17.28	38.45	-21.17
841.5		RB1-77	16QAM	0.055	17.38	38.45	-21.07
834.0	n26 (22) / 20MHz (ANT E)	RB1-1	BPSK	0.068	18.29	38.45	-20.16
836.5		RB1-53	BPSK	0.051	17.07	38.45	-21.38
839.0		RB1-104	BPSK	0.053	17.21	38.45	-21.24
834.0		RB1-1	16QAM	0.054	17.36	38.45	-21.09
836.5		RB1-53	16QAM	0.038	15.85	38.45	-22.60
839.0		RB1-104	16QAM	0.040	16.07	38.45	-22.38

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
824.0	n26 Straddle / 5MHz (ANT E)	RB1-1	BPSK	0.061	17.84	38.45	-20.61
824.0		RB1-12	BPSK	0.061	17.85	38.45	-20.60
824.0		RB1-23	BPSK	0.061	17.83	38.45	-20.62
824.0		RB1-1	16QAM	0.047	16.69	38.45	-21.76
824.0		RB1-12	16QAM	0.048	16.79	38.45	-21.66
824.0		RB1-23	16QAM	0.047	16.75	38.45	-21.70
824.0	n26 Straddle / 10MHz (ANT E)	RB1-1	BPSK	0.055	17.43	38.45	-21.02
824.0		RB1-26	BPSK	0.062	17.89	38.45	-20.56
824.0		RB1-50	BPSK	0.062	17.93	38.45	-20.52
824.0		RB1-1	16QAM	0.043	16.32	38.45	-22.13
824.0		RB1-26	16QAM	0.048	16.81	38.45	-21.64
824.0		RB1-50	16QAM	0.049	16.89	38.45	-21.56
824.0	n26 Straddle / 15MHz (ANT E)	RB1-1	BPSK	0.058	17.64	38.45	-20.81
824.0		RB1-39	BPSK	0.065	18.12	38.45	-20.33
824.0		RB1-77	BPSK	0.068	18.33	38.45	-20.12
824.0		RB1-1	16QAM	0.047	16.68	38.45	-21.77
824.0		RB1-39	16QAM	0.051	17.05	38.45	-21.40
824.0		RB1-77	16QAM	0.054	17.29	38.45	-21.16
824.0	n26 Straddle / 20MHz (ANT E)	RB1-1	BPSK	0.064	18.07	38.45	-20.38
824.0		RB1-53	BPSK	0.067	18.25	38.45	-20.20
824.0		RB1-104	BPSK	0.061	17.86	38.45	-20.59
824.0		RB1-1	16QAM	0.049	16.93	38.45	-21.52
824.0		RB1-53	16QAM	0.052	17.14	38.45	-21.31
824.0		RB1-104	16QAM	0.048	16.83	38.45	-21.62

CONFIG 1

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC: §22.917(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC: §90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

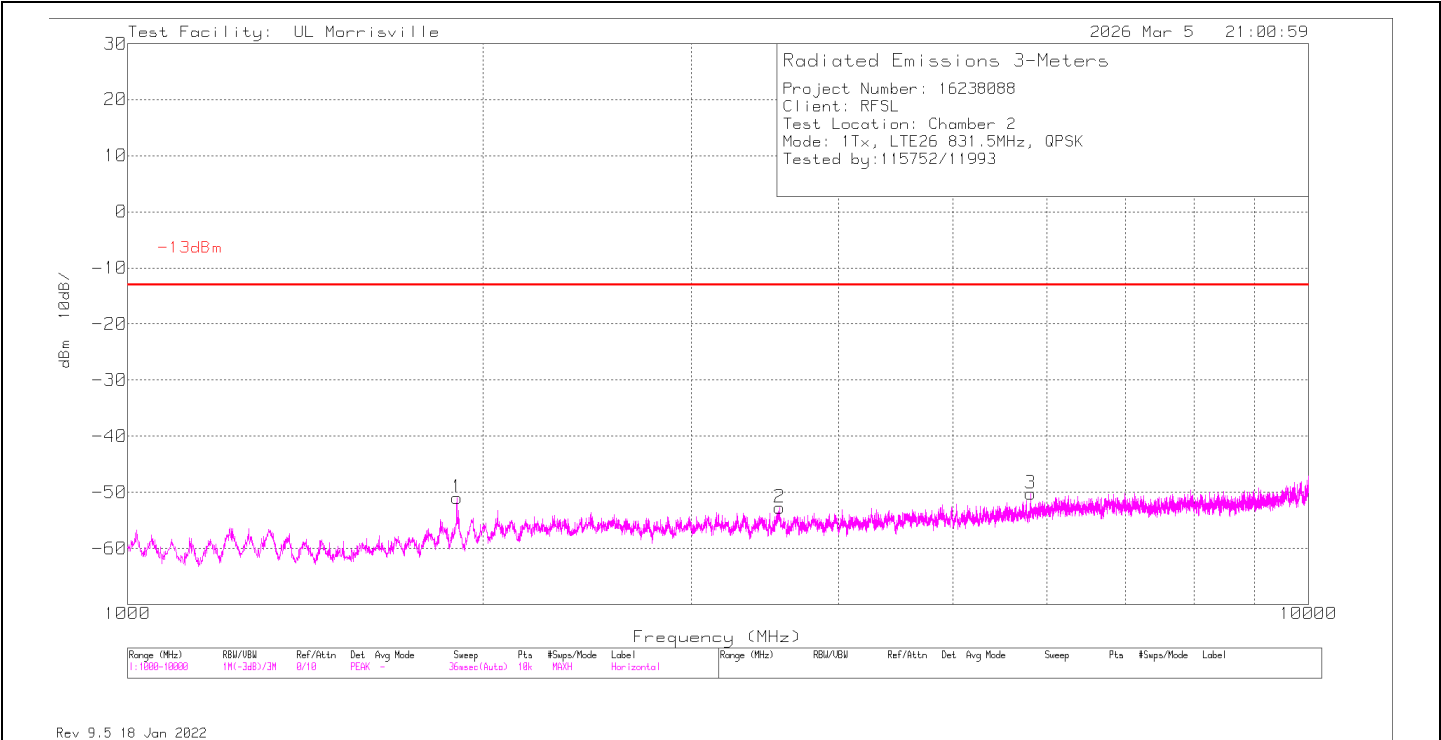
RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

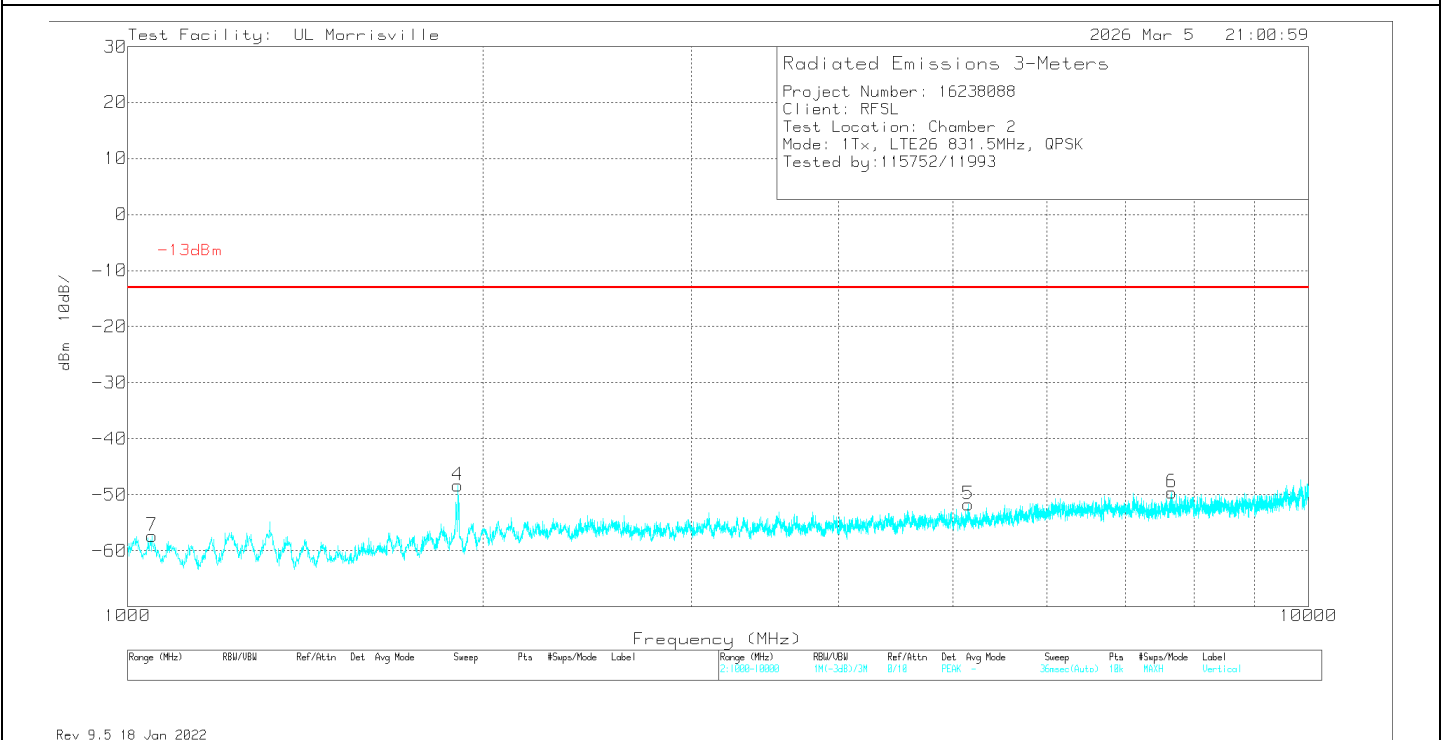
- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

Example Plot



Horizontal Polarity



Vertical Polarity

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	88761 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	1048.6	-48.31	Pk	27.7	-49.9	1.3	11.8	-57.41	-13	-44.41	0-360	200	V
1	1900.9	-43.97	Pk	30.9	-50	.3	11.8	-50.97	-13	-37.97	0-360	101	H
4	1904.5	-41.21	Pk	30.9	-50.1	.3	11.8	-48.31	-13	-35.31	0-360	300	V
2	3565.9	-51.63	Pk	32.9	-46.3	.5	11.8	-52.73	-13	-39.73	0-360	300	H
5	5148.1	-53.39	Pk	34.2	-44.5	.2	11.8	-51.69	-13	-38.69	0-360	300	V
3	5815.9	-53.35	Pk	35	-44.1	.4	11.8	-50.25	-13	-37.25	0-360	300	H
6	7663.6	-54.64	Pk	35.6	-42.7	.3	11.8	-49.64	-13	-36.64	0-360	300	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

9.2.1. LTE BAND 26 (FCC PART 90S & 22)

LTE BAND 26 (QPSK 15.0MHZ BANDWIDTH, ANT A+C (CONFIG 0))

Date:	2026-03-05
Test Engineer:	115752/11993
Configuration:	EUT Only
Mode:	LTE26, QPSK
Chamber #:	Chamber 2

Frequency (MHz)	Meter Reading (dBuV)	Det	206211 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
Low Channel, 821.5MHz									
1844.2	-47.35	Pk	30.7	-49.4	.3	11.8	-53.95	-13	-40.95
2421.1	-50.27	Pk	32.4	-48.1	.4	11.8	-53.77	-13	-40.77
4382.2	-52.56	Pk	33.7	-46.2	.6	11.8	-52.66	-13	-39.66
4874.5	-53.46	Pk	34.2	-44.9	.2	11.8	-52.16	-13	-39.16
7127.2	-54.72	Pk	35.5	-42.3	.2	11.8	-49.52	-13	-36.52
8830.9	-57.23	Pk	35.9	-39.6	.3	11.8	-48.83	-13	-35.83
Mid Channel, 831.5MHz									
1048.6	-48.31	Pk	27.7	-49.9	1.3	11.8	-57.41	-13	-44.41
1900.9	-43.97	Pk	30.9	-50	.3	11.8	-50.97	-13	-37.97
1904.5	-41.21	Pk	30.9	-50.1	.3	11.8	-48.31	-13	-35.31
3565.9	-51.63	Pk	32.9	-46.3	.5	11.8	-52.73	-13	-39.73
5148.1	-53.39	Pk	34.2	-44.5	.2	11.8	-51.69	-13	-38.69
5815.9	-53.35	Pk	35	-44.1	.4	11.8	-50.25	-13	-37.25
7663.6	-54.64	Pk	35.6	-42.7	.3	11.8	-49.64	-13	-36.64
High Channel, 839MHz									
1895.5	-46.23	Pk	30.9	-49.7	.3	11.8	-52.93	-13	-39.93
1993.6	-48.96	Pk	31.4	-49.9	.4	11.8	-55.26	-13	-42.26
2442.7	-49.75	Pk	32.5	-48.2	.4	11.8	-53.25	-13	-40.25
3097	-52.03	Pk	33.1	-45.7	.2	11.8	-52.63	-13	-39.63
6892.3	-54.75	Pk	35.6	-42.7	.3	11.8	-49.75	-13	-36.75
7888.6	-54.24	Pk	35.8	-42.5	.3	11.8	-48.84	-13	-35.84

LTE BAND 26 (QPSK 15.0MHZ BANDWIDTH, ANT E (CONFIG 1))

Date:	2026-03-06
Test Engineer:	115752/11993
Configuration:	EUT Only
Mode:	LTE26, QPSK
Chamber #:	Chamber 2

Frequency (MHz)	Meter Reading (dBuV)	Det	206211 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
Low Channel, 821.5MHz									
1629.1	-48.76	Pk	28.7	-48.8	.3	11.8	-56.76	-13	-43.76
1629.1	-42.03	Pk	28.7	-48.8	.3	11.8	-50.03	-13	-37.03
2444.5	-48.69	Pk	32.5	-48.4	.4	11.8	-52.39	-13	-39.39
2444.5	-47.71	Pk	32.5	-48.4	.4	11.8	-51.41	-13	-38.41
4263.4	-51.73	Pk	33.6	-46.2	.5	11.8	-52.03	-13	-39.03
4271.5	-52.82	Pk	33.6	-46.2	.3	11.8	-53.32	-13	-40.32
Mid Channel, 831.5MHz									
1664.2	-44.81	Pk	29.1	-49.7	.3	11.8	-53.31	-13	-40.31
1664.2	-39.83	Pk	29.1	-49.7	.3	11.8	-48.33	-13	-35.33
3554.2	-52.37	Pk	32.9	-46	.5	11.8	-53.17	-13	-40.17
3563.2	-51.3	Pk	32.9	-46	.5	11.8	-52.1	-13	-39.1
6716.8	-53.58	Pk	35.6	-42.7	.3	11.8	-48.58	-13	-35.58
6722.2	-54.97	Pk	35.6	-42.9	.2	11.8	-50.27	-13	-37.27
High Channel, 839MHz									
1664.2	-44.71	Pk	29.1	-49.7	.3	11.8	-53.21	-13	-40.21
1664.2	-39.56	Pk	29.1	-49.7	.3	11.8	-48.06	-13	-35.06
1891	-48.65	Pk	30.9	-49.4	.3	11.8	-55.05	-13	-42.05
1903.6	-45.89	Pk	30.9	-50.1	.3	11.8	-52.99	-13	-39.99
3557.8	-52.45	Pk	32.9	-45.9	.5	11.8	-53.15	-13	-40.15
3562.3	-52.94	Pk	32.9	-46	.5	11.8	-53.74	-13	-40.74

9.2.2. 5G NR n26 (FCC PART 90S & 22)

5G NR n26 (BPSK 20.0MHZ BANDWIDTH, ANT A+C (CONFIG 0))

Date:	2026-03-23
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode:	N26, BPSK
Chamber #:	Chamber 4

Frequency (MHz)	Meter Reading (dBuV)	Det	206211 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
Low Channel, 824MHz									
1.9918	-62.44	Pk	31.2	-35.7	.4	11.8	-54.74	-13	-41.74
2.0476	-62.16	Pk	31.7	-35.7	.5	11.8	-53.86	-13	-40.86
6.616	-66.87	Pk	35.5	-28.5	.5	11.8	-47.57	-13	-34.57
6.7996	-65.73	Pk	35.4	-28.1	.4	11.8	-46.23	-13	-33.23
9.0541	-65.54	Pk	36	-24.8	.4	11.8	-42.14	-13	-29.14
9.1495	-65.52	Pk	36.2	-25.1	.5	11.8	-42.12	-13	-29.12
Mid Channel, 831.5MHz									
1.9918	-61.69	Pk	31.2	-35.7	.4	11.8	-53.99	-13	-40.99
2.0665	-62.18	Pk	31.7	-35.9	.4	11.8	-54.18	-13	-41.18
4.9312	-64.47	Pk	33.8	-31.2	.3	11.8	-49.77	-13	-36.77
4.9402	-63.96	Pk	33.8	-31.2	.3	11.8	-49.26	-13	-36.26
9.5653	-65.94	Pk	36.7	-24.8	.6	11.8	-41.64	-13	-28.64
9.6931	-67.19	Pk	36.7	-24.6	.6	11.8	-42.69	-13	-29.69
High Channel, 839MHz									
1.288	-62.49	Pk	29.3	-35.5	.6	11.8	-56.29	-13	-43.29
1.9018	-62.19	Pk	30.7	-35.4	.4	11.8	-54.69	-13	-41.69
4.6063	-64.99	Pk	34.2	-31.3	.2	11.8	-50.09	-13	-37.09
5.8888	-65.83	Pk	34.9	-29.6	.3	11.8	-48.43	-13	-35.43
9.5428	-66.55	Pk	36.7	-24.9	.5	11.8	-42.45	-13	-29.45
9.604	-65.96	Pk	36.6	-24.8	.5	11.8	-41.86	-13	-28.86

5G NR n26 (BPSK 20.0MHZ BANDWIDTH, ANT E (CONFIG 1))

Date:	2026-03-23
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode:	N26, BPSK
Chamber #:	Chamber 4

Frequency (MHz)	Meter Reading (dBuV)	Det	206211 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
Low Channel, 824MHz									
1.9009	-61.92	Pk	30.7	-35.4	.4	11.8	-54.42	-13	-41.42
2.0737	-62.61	Pk	31.7	-35.7	.4	11.8	-54.41	-13	-41.41
4.6009	-64.34	Pk	34.2	-31.4	.2	11.8	-49.54	-13	-36.54
4.6324	-63.96	Pk	34.2	-31.6	.3	11.8	-49.26	-13	-36.26
9.379	-65.26	Pk	36.5	-24.8	.3	11.8	-41.46	-13	-28.46
9.6895	-67.27	Pk	36.7	-24.5	.6	11.8	-42.67	-13	-29.67
Mid Channel, 831.5MHz									
1.6435	-58.91	Pk	28.9	-35.6	.5	11.8	-53.31	-13	-40.31
1.6435	-60.97	Pk	28.9	-35.6	.5	11.8	-55.37	-13	-42.37
4.4479	-64.34	Pk	33.7	-31	.2	11.8	-49.64	-13	-36.64
4.5919	-63.86	Pk	34.2	-31.5	.2	11.8	-49.16	-13	-36.16
9.5617	-66.37	Pk	36.7	-24.8	.6	11.8	-42.07	-13	-29.07
9.5887	-66.32	Pk	36.6	-24.5	.6	11.8	-41.82	-13	-28.82
High Channel, 839MHz									
1.2907	-61.89	Pk	29.3	-35.6	.6	11.8	-55.79	-13	-42.79
1.3015	-61.74	Pk	29.2	-35.7	.6	11.8	-55.84	-13	-42.84
5.0563	-65.4	Pk	34.1	-31.3	.3	11.8	-50.5	-13	-37.5
5.266	-64.55	Pk	34.3	-31.1	.2	11.8	-49.35	-13	-36.35
9.0343	-65.61	Pk	36	-24.5	.4	11.8	-41.91	-13	-28.91
9.6004	-66.74	Pk	36.6	-24.8	.5	11.8	-42.64	-13	-29.64

10. SETUP PHOTOS

Refer to R16238088-EP1d for setup photos.

END OF REPORT