

TEST REPORT

Report Number: R16238088-E4c

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

Model : SC-56G, SCG39

FCC ID : A3LSMF976JPN

EUT Description : GSM/WCDMA/LTE/NR/SCS 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 24E, PART 25
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-133 ISSUE 7

Date Of Issue:
2026-06-03

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Revision History

Issue		Revisions	Revised By
Rev.	Date		
V1	2026-05-13	Initial Issue	Noah Bennett
V2	2026-05-27	TCB Feedback 1	Noah Bennett
V3	2026-06-03	Added SCS writeup to Section 2	B. Kiewra

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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/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB,
WPT and NFC

SERIAL NUMBERS: ZAQ0548M, ZB30741M, ZBK0208M, ZBK0213M, ZBK0219M

SAMPLE RECEIVE DATE: 2026-02-24

DATE TESTED: 2026-03-06 to 2026-04-29

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 2, PART 24E, PART 25	Refer to Section 2
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-133 ISSUE 7	

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	24.232 (c)	RSS133§5.5	Complies	None.
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS133	Complies	None.
Band Edge and Emission Mask	2.1051, 24.238 (a)	RSS133§5.6	Complies	None.
Out of Band Emissions	2.1051, 24.238 (a)	RSS133§5.6	Complies	None.
Frequency Stability	2.1055, 24.235	RSS133§5.4	Complies	None.
Peak-to-Average Ratio	24.232 (d)	RSS133§5.5	Complies	None.
Field Strength of Spurious Radiation	2.1053, 24.238 (a)	RSS133§5.6	Complies	None.

SUPPLEMENTAL COVERAGE FROM SPACE (SCS)

Under section § 25.109 (f) of the FCC rules Space and SCS earth stations providing SCS are subject to technical rules in parts 2, 22, 24, and 27 of this chapter based on the operating frequency band. Section § 25.204 (g) specifies that earth stations providing SCS pursuant to §§ 25.125 and 25.115 shall comply with the power requirements and out-of-band emission limits corresponding to devices operating in parts 22, 24, or 27 of this chapter (e.g., §§ 22.913, 24.232, 27.50), as required for their operating frequencies. We have clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.

The table below identifies the SCS frequencies available for use and, for each band, the applicable FCC Part 22, 24, 27, and 90R technical requirements, the air interfaces supported by the device for SCS use.

The bands available for SCS and the bands supported by the devices in the scope of this report are:

Band	Frequency		Part 22/24/27/90 Rule parts	3GPP Band	Supported	Applicable to This Report
	DL (MHz)	UL (MHz)				
600 MHz	614 – 652	663 – 698	27.5 (c) 27.50 (c) 27.53 (g)	71/n71	Yes	No
700 MHz	729 – 746	699 – 716	27.5 (c) 27.50 (c) 27.53 (g)	12/n12 17	Yes	No
	746 – 756	777 – 787	27.5 (b) 27.50 (b) 27.53 (f)	13/n13	Yes	No
	758 – 769	788 – 799	90R ^{Note 1}	14 / n14	Yes	No
	805 – 806				No	No
800 MHz	869 – 894	824 – 849	22H	WCDMA 5 5/n5 26/n26	Yes	No
Broadband PCS	1930 – 1995	1850 – 1915	24E	WCDMA 2 2/n2 25/n25	Yes	Yes
Note 1: Clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.						

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 24E, 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-133 Issue 7

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.	S0067	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 Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFCC.

The EUT supports the following Bands and their antenna configurations:

LTE Bands	Config 0	Config 1
LTE B25(2)	ANT B	ANT G

This report applies data referencing from FCC ID: A3LSMF976U. The test data to validate data referencing is included in Test Report R16238088-E28

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 25

Part 24 / RSS 133								
EIRP Limit (W)		2.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
3.0	16QAM	1851.5	1908.5	23.75	0.237	2.710	2709.7	2M71D7W
5.0	QPSK	1852.5	1907.5	24.25	0.266	4.522	4521.8	4M52G7W
20.0	QPSK	1860.0	1905.0	24.29	0.269	18.018	18018	18M0G7W
	16QAM			23.63	0.231	17.995	17995	18M0D7W

6.3. 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.

LTE25 can cover LTE2, as they are the same operating frequency, and have the same tune-up.

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

LTE & 5G NR Bands	Worst-Case Antenna Port	Worst-Case Modulation
LTE B25(2)	LTE 2/25 Config 0 (Antenna B)	LTE B25 (QPSK)

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:

Bands 2 and 25	Config 0 Orientation	Config 1 Orientation
Low Band ($F_c < 1\text{GHz}$)	-	-
Mid Band ($1\text{GHz} < F_c < 3\text{GHz}$)	X Open	X Open
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.

6.4. 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-EP1c 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
212167	Wideband Radio Communications Tester	Anritsu	MT8821C	N/A	N/A
169108 (BRF010)*	1.85-1.97GHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50714-01	2025-03-13	2026-03-31
169106 (BRF008)*	1710-1785MHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50713-01	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
169106 (BRF008)*	1710-1785MHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50713-01	2025-03-13	2026-03-31
169108 (BRF010)*	1.85-1.97GHz notch filter, 2W, Fhigh = 9GHz	Micro-Tronics	BRM50714-01	2025-03-13	2026-03-31

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.

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	2025-03-31 2026-04-01	2026-03-31 2027-04-01
226552*	20dB Attenuator	CentricRF	C18S2-20	2025-03-31 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:

5. * Testing is completed before equipment expiration date.
6. **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: RSS133

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.

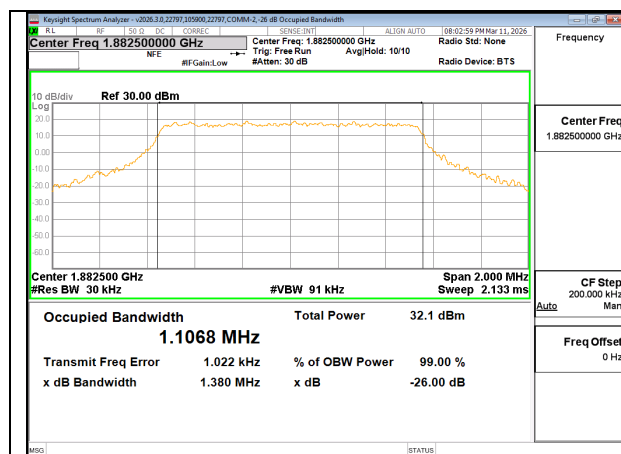
RESULTS

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

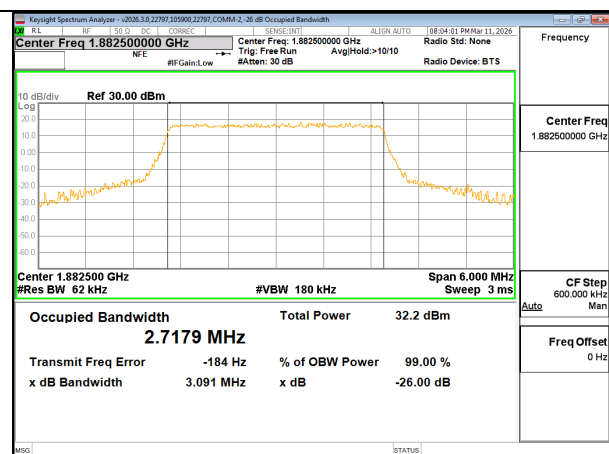
LTE BAND 25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 25	1.4MHz, QPSK	6/0	1882.5	1.1068	1.380
	1.4MHz, 16QAM			1.1056	1.407
	3MHz, QPSK	15/0		2.7179	3.091
	3MHz, 16QAM			2.7097	3.080
	5MHz, QPSK	25/0		4.5218	5.111
	5MHz, 16QAM			4.5217	5.179
	10MHz, QPSK	50/0		9.0280	10.02
	10MHz, 16QAM			9.0207	10.08
	15MHz, QPSK	75/0		13.498	14.95
	15MHz, 16QAM			13.508	14.89
	20MHz, QPSK	100/0		18.018	19.72
	20MHz, 16QAM			17.995	19.84
	20MHz, QPSK	1/0		0.2924	0.4828

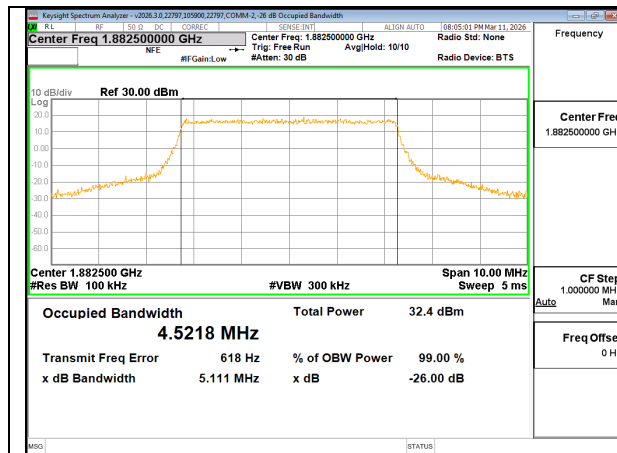
8.1.1. LTE BAND 25



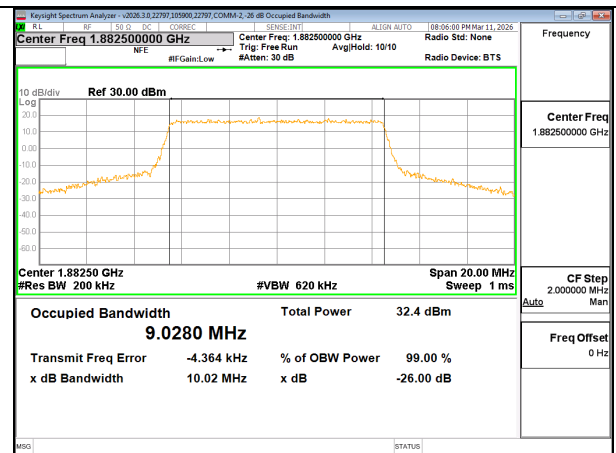
LTE B25 1.4MHz QPSK Middle Channel RB6-0



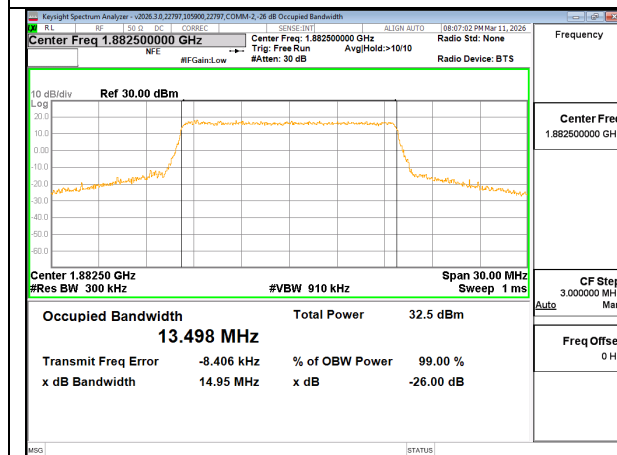
LTE B25 3MHz QPSK Middle Channel RB15-0



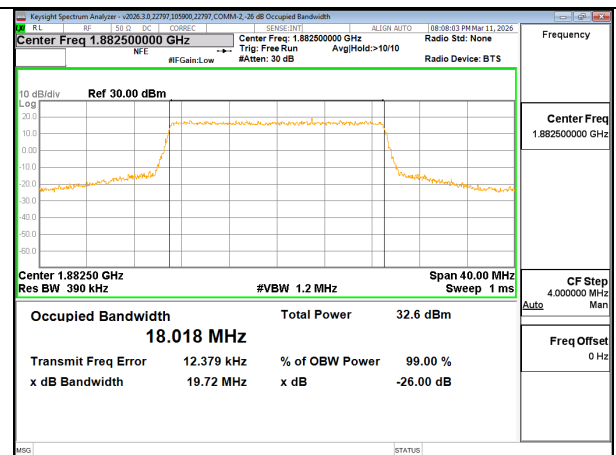
LTE B25 5MHz QPSK Middle Channel RB25-0



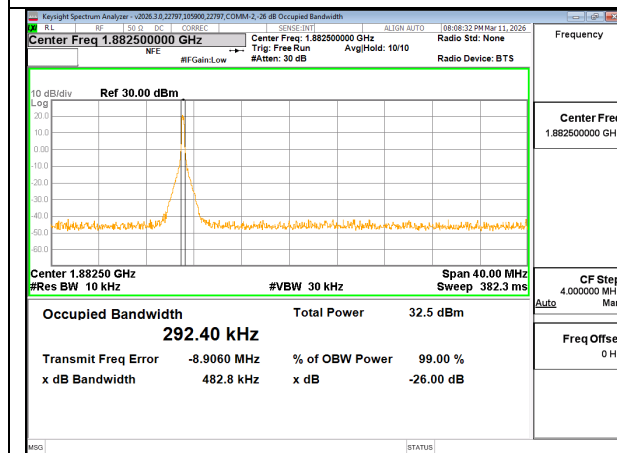
LTE B25 10MHz QPSK Middle Channel RB50-0



LTE B25 15MHz QPSK Middle Channel RB75-0



LTE B25 20MHz QPSK Middle Channel RB100-0



LTE B25 20MHz QPSK Middle Channel RB1-0

Intentionally Blank

8.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §24.238 (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.

ISED: RSS133§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment	
Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

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.

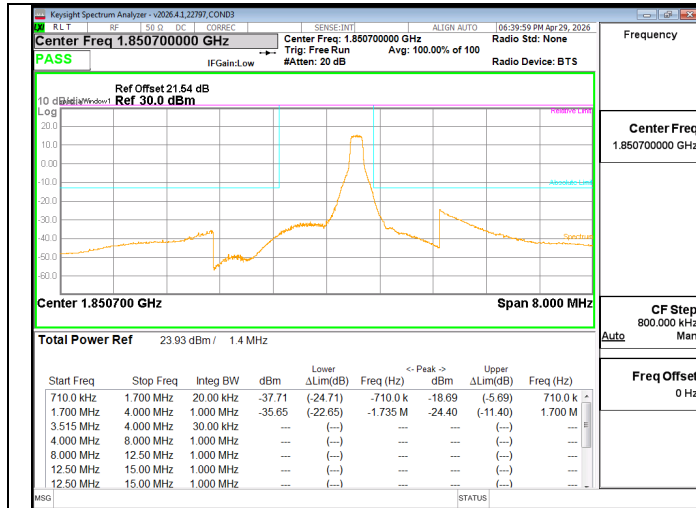
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

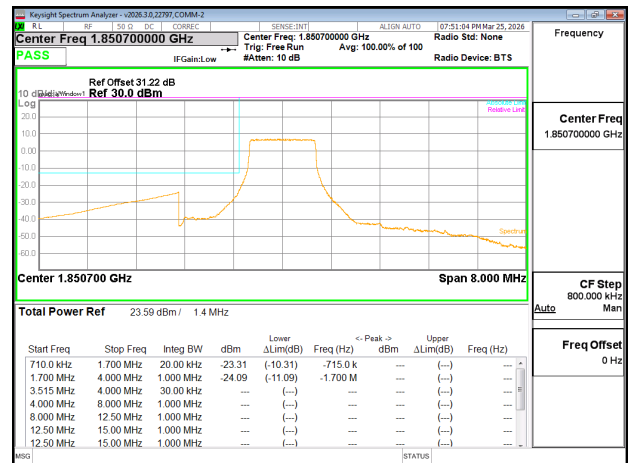
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

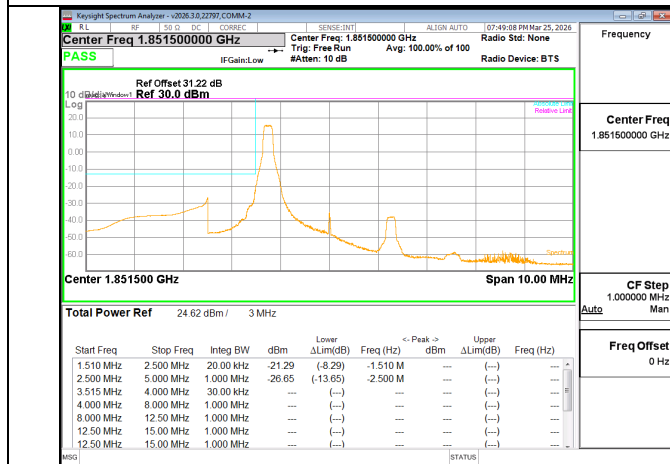
8.2.1. LTE Band 2



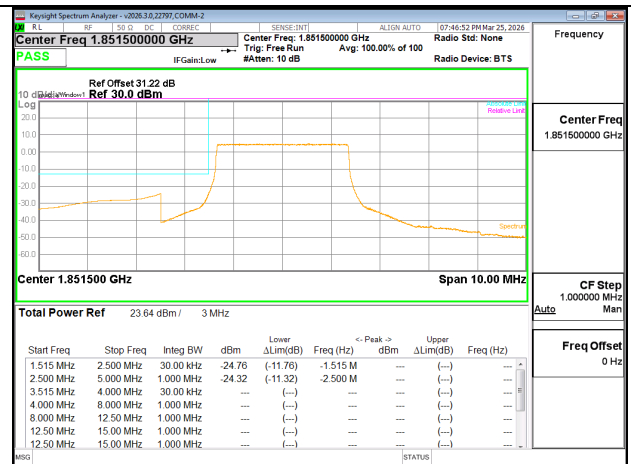
LTE B2 1.4MHz QPSK High Channel RB1-5



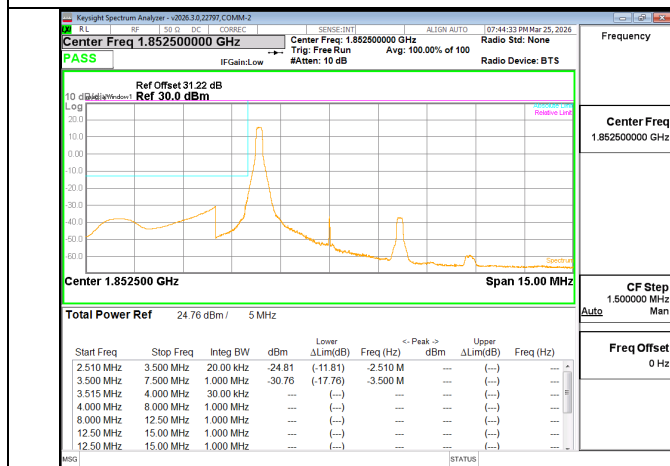
LTE B2 1.4MHz QPSK High Channel RB6-0



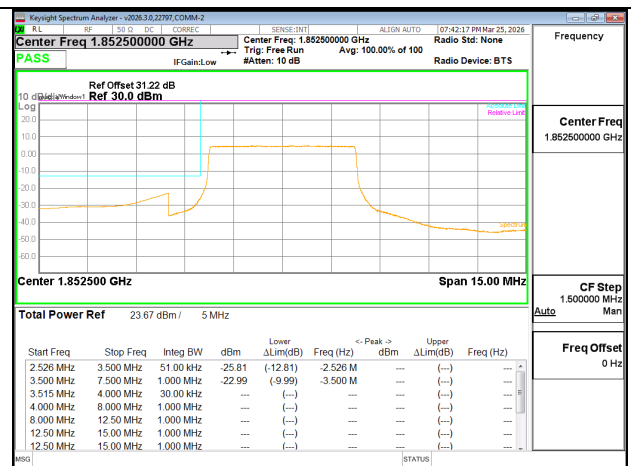
LTE B2 3MHz QPSK High Channel RB1-14



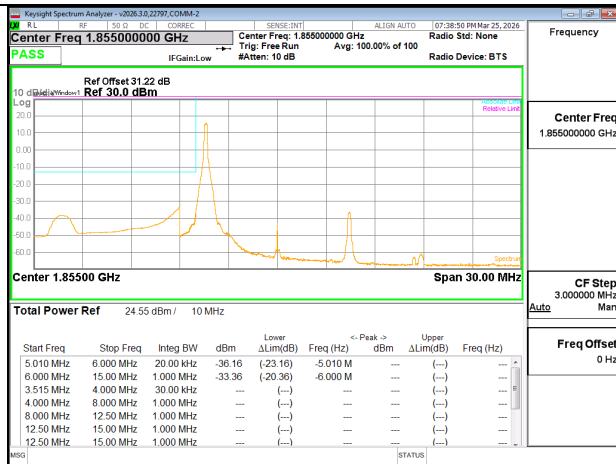
LTE B2 3MHz QPSK High Channel RB15-0



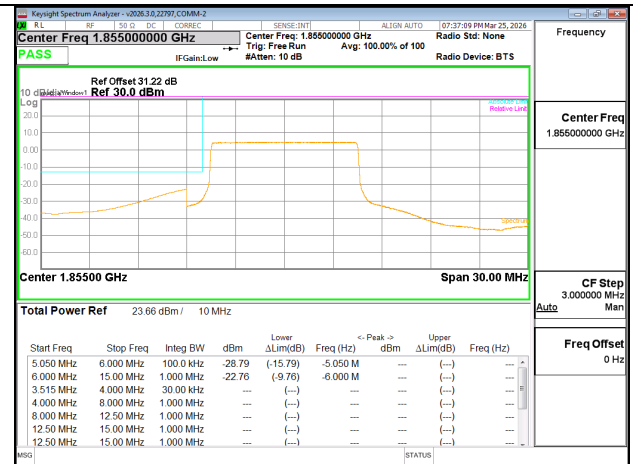
LTE B2 5MHz QPSK High Channel RB1-24



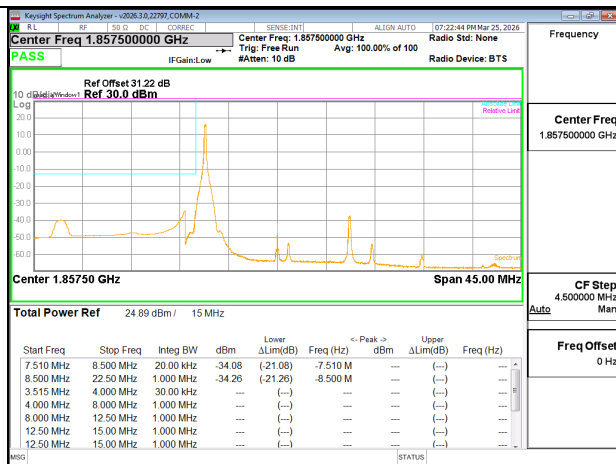
LTE B2 5MHz QPSK High Channel RB25-0



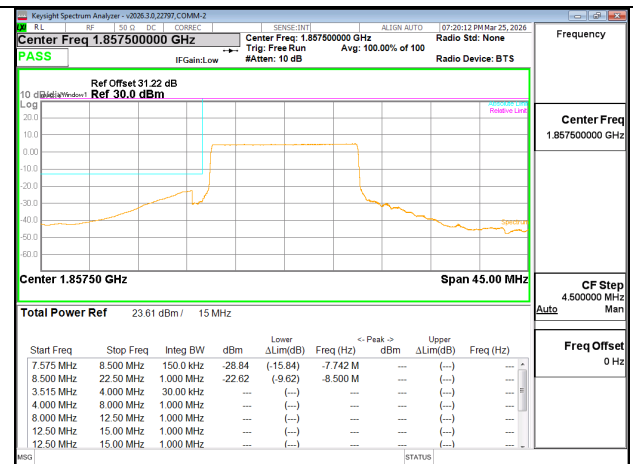
LTE B2 10MHz QPSK High Channel RB1-49



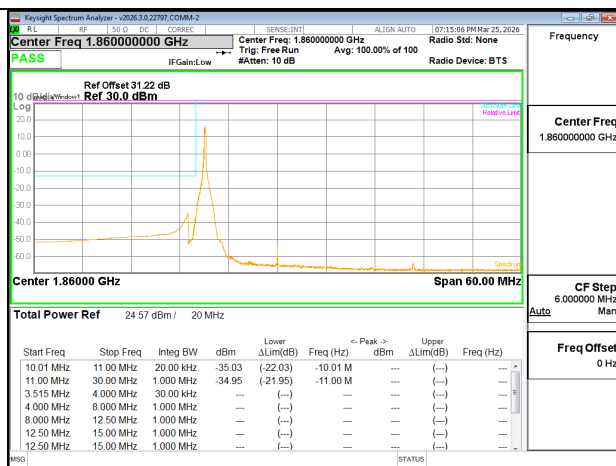
LTE B2 10MHz QPSK High Channel RB50-0



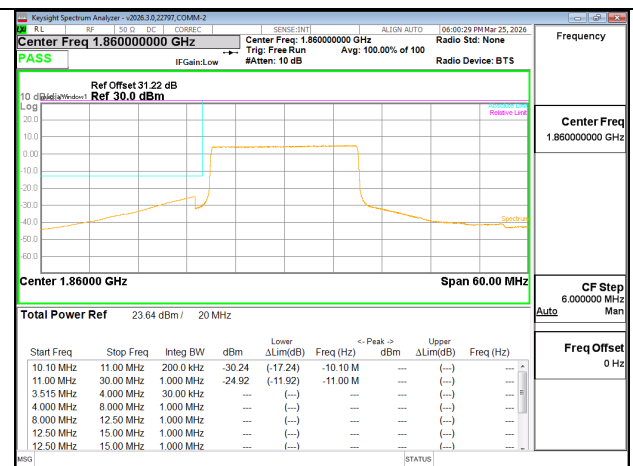
LTE B2 15MHz QPSK High Channel RB1-0



LTE B2 15MHz QPSK High Channel RB75-0

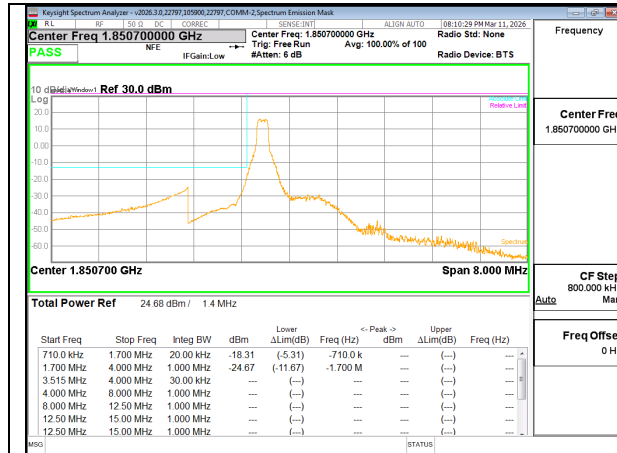


LTE B2 20MHz QPSK High Channel RB1-0

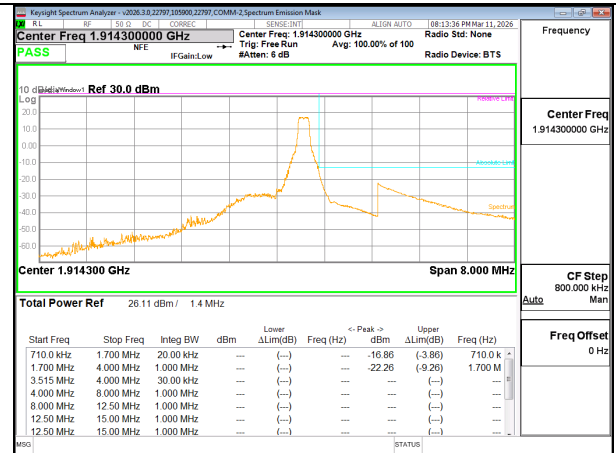


LTE B2 20MHz QPSK High Channel RB100-0

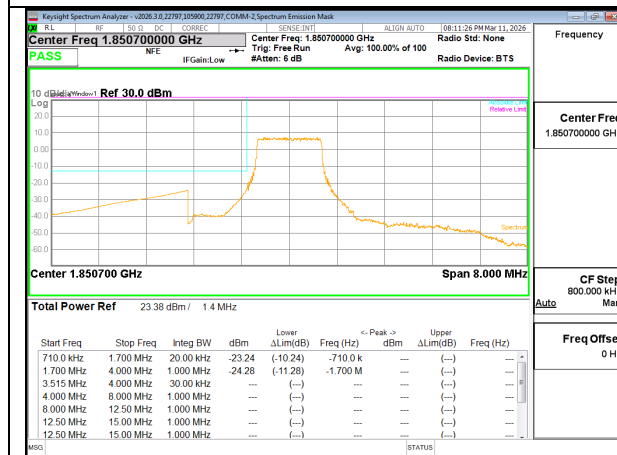
8.2.2. LTE BAND 25



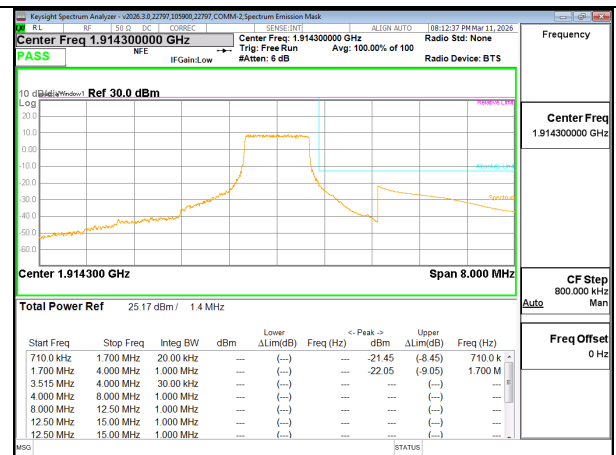
LTE B25 1.4MHz QPSK Low Channel RB1-0



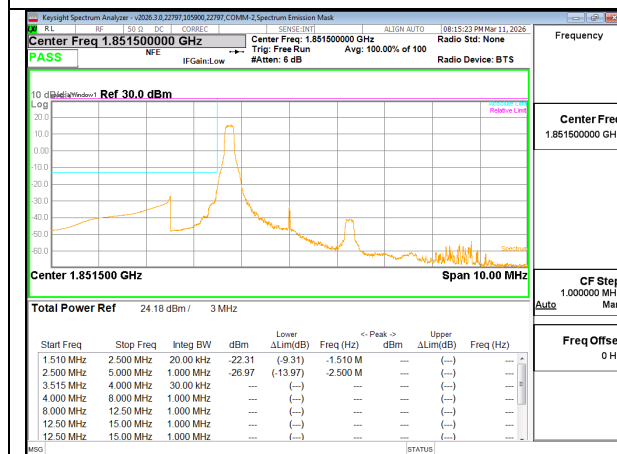
LTE B25 1.4MHz QPSK High Channel RB1-5



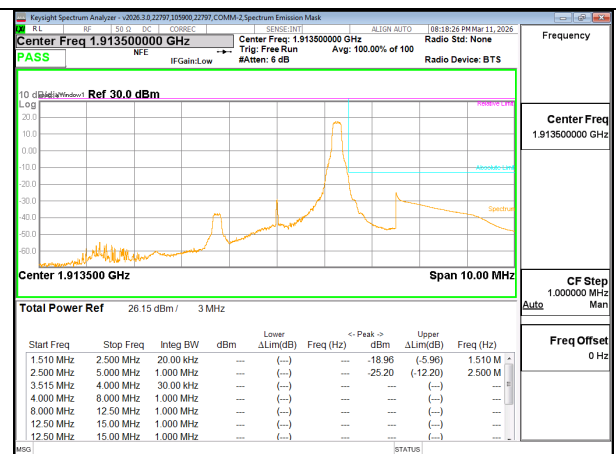
LTE B25 1.4MHz QPSK Low Channel RB6-0



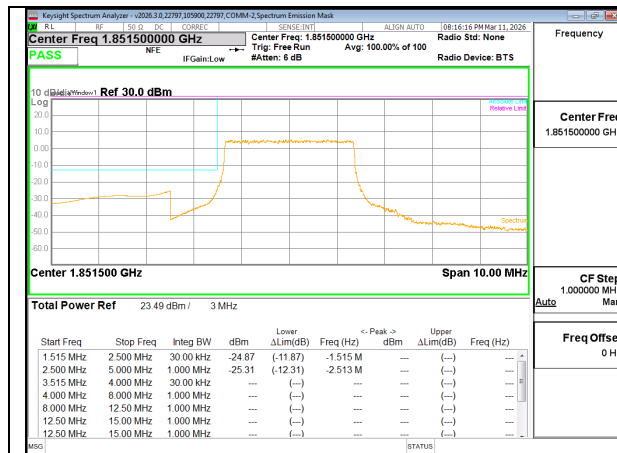
LTE B25 1.4MHz QPSK High Channel RB6-0



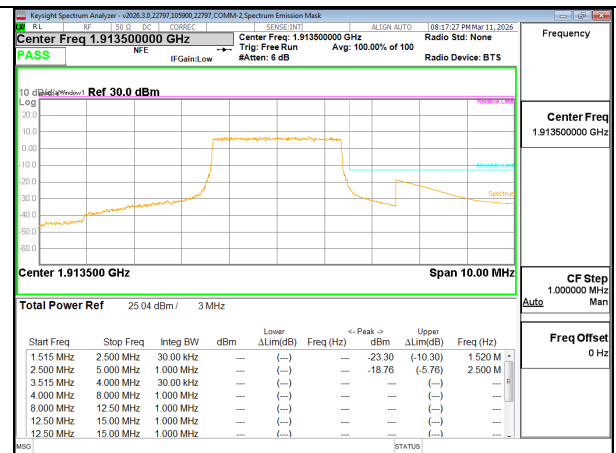
LTE B25 3MHz QPSK Low Channel RB1-0



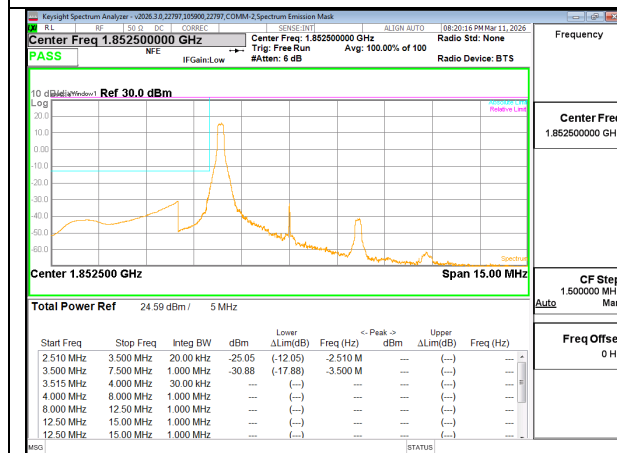
LTE B25 3MHz QPSK High Channel RB1-14



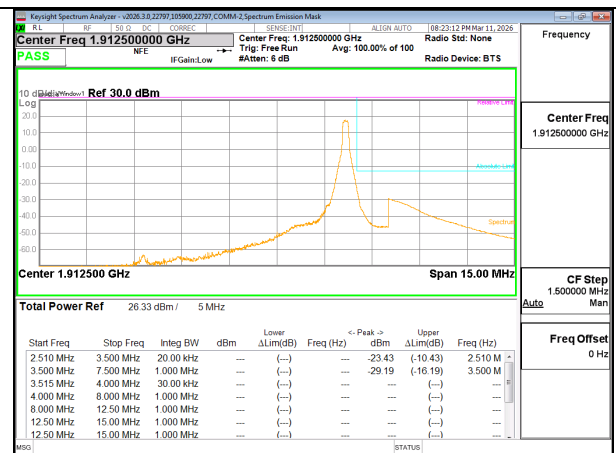
LTE B25 3MHz QPSK Low Channel RB15-0



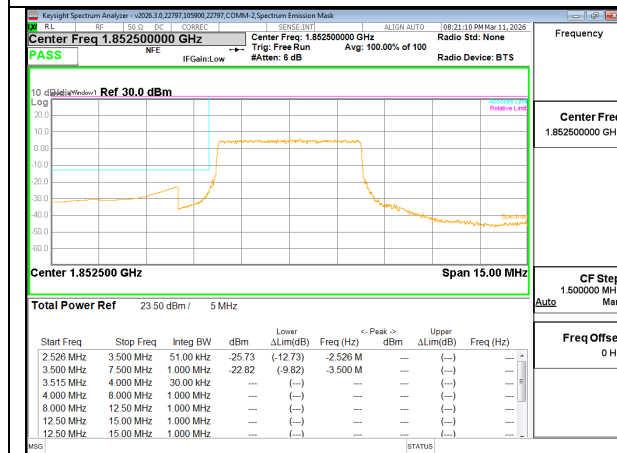
LTE B25 3MHz QPSK High Channel RB15-0



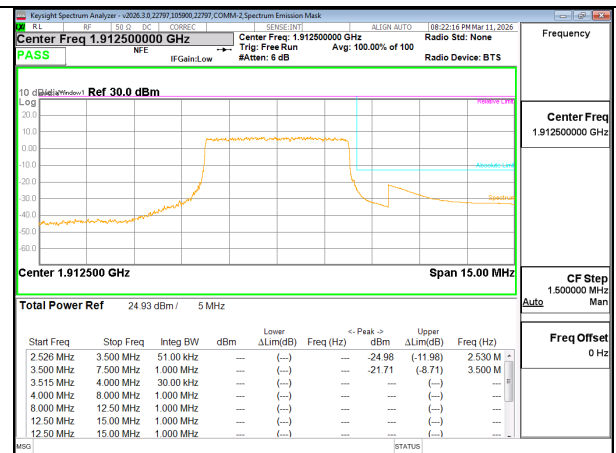
LTE B25 5MHz QPSK Low Channel RB1-0



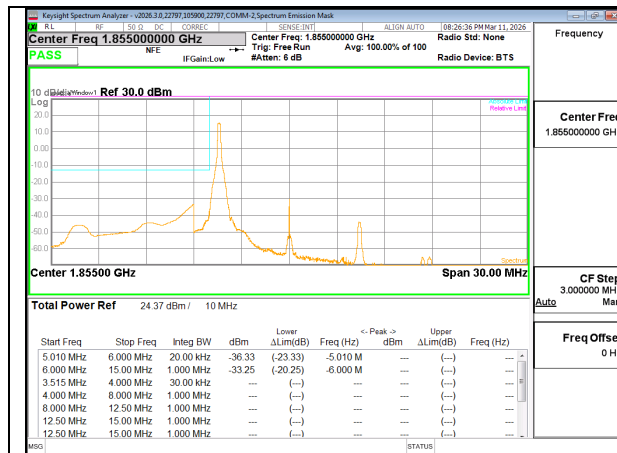
LTE B25 5MHz QPSK High Channel RB1-24



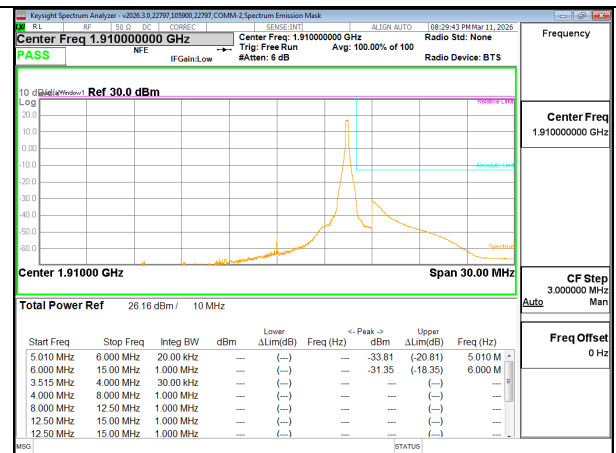
LTE B25 5MHz QPSK Low Channel RB25-0



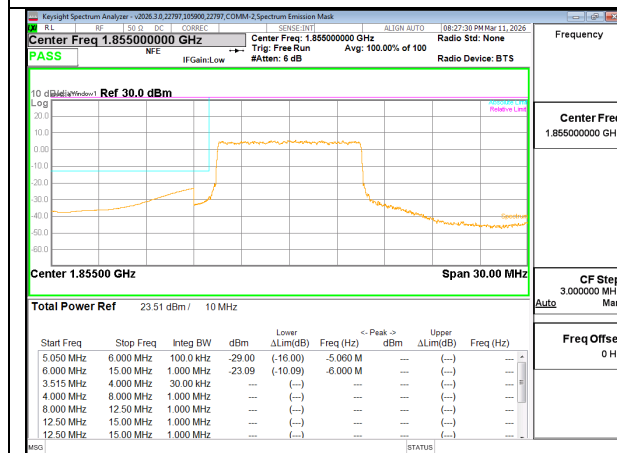
LTE B25 5MHz QPSK High Channel RB25-0



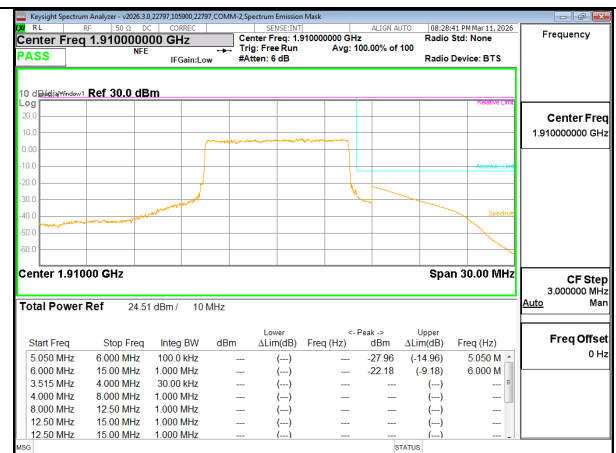
LTE B25 10MHz QPSK Low Channel RB1-0



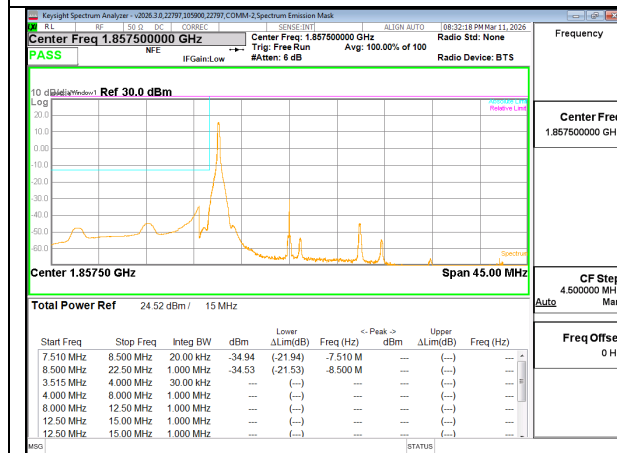
LTE B25 10MHz QPSK High Channel RB1-49



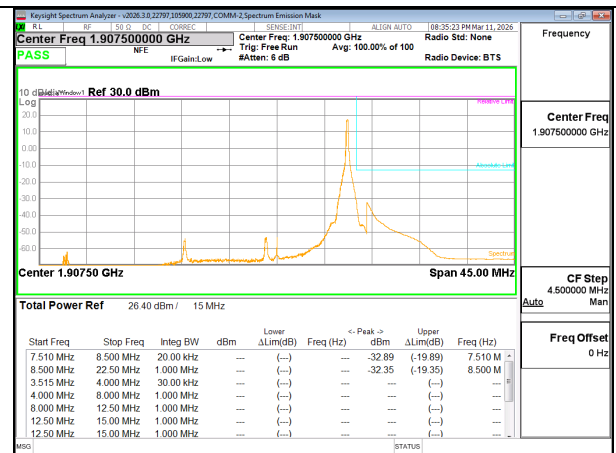
LTE B25 10MHz QPSK Low Channel RB50-0



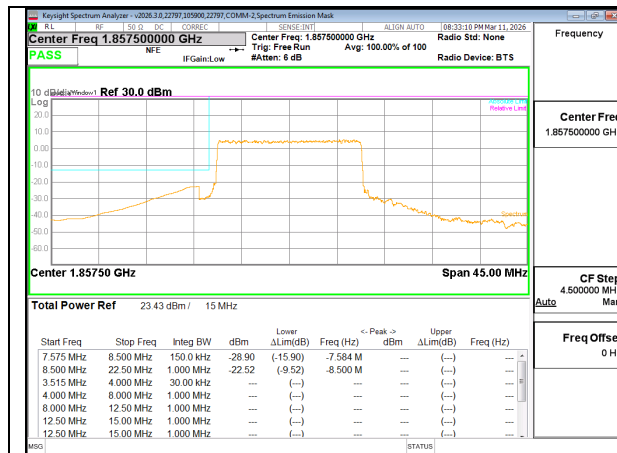
LTE B25 10MHz QPSK High Channel RB50-0



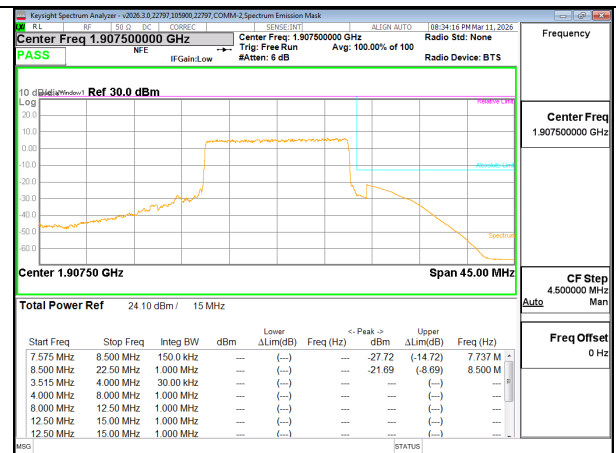
LTE B25 15MHz QPSK Low Channel RB1-0



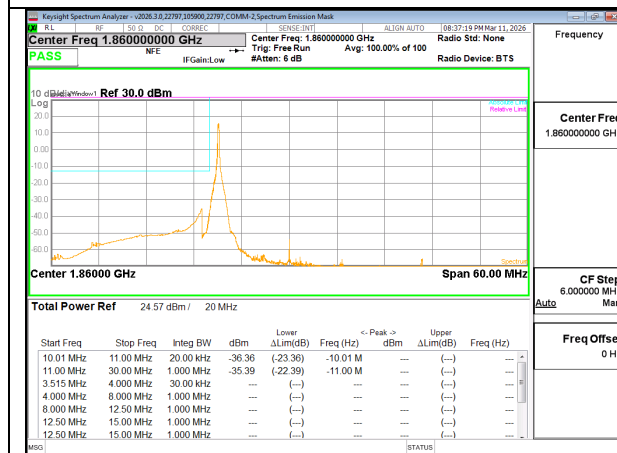
LTE B25 15MHz QPSK High Channel RB1-74



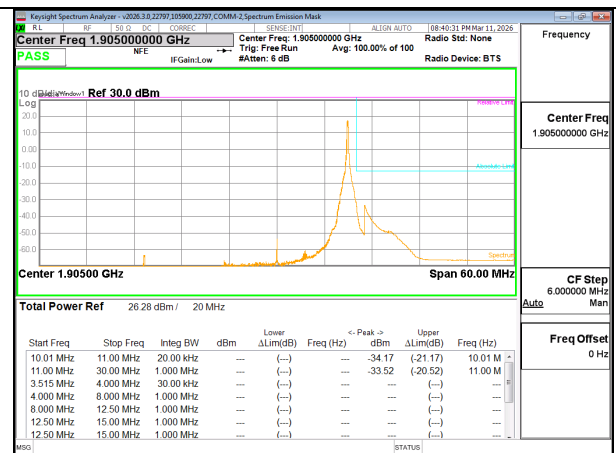
LTE B25 15MHz QPSK Low Channel RB75-0



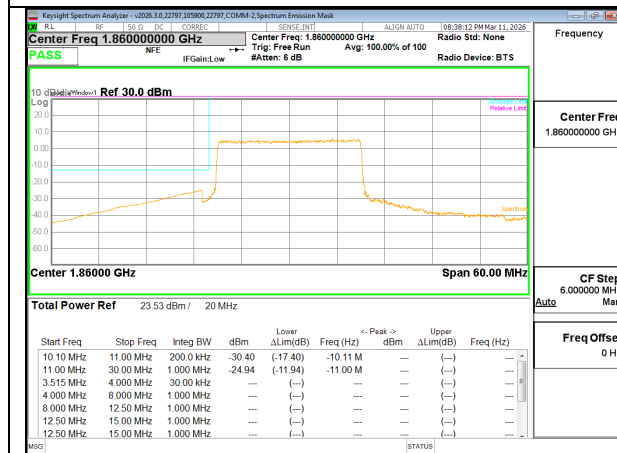
LTE B25 15MHz QPSK High Channel RB75-0



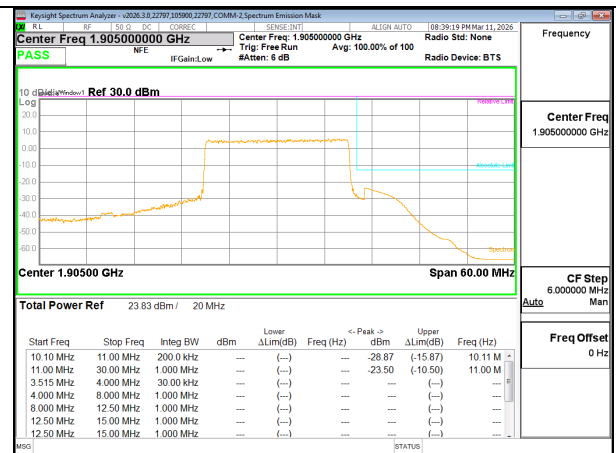
LTE B25 20MHz QPSK Low Channel RB1-0



LTE B25 20MHz QPSK High Channel RB1-99



LTE B25 20MHz QPSK Low Channel RB100-0



LTE B25 20MHz QPSK High Channel RB100-0

8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §24.238 (a)

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

ISED: RSS133§5.6

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:

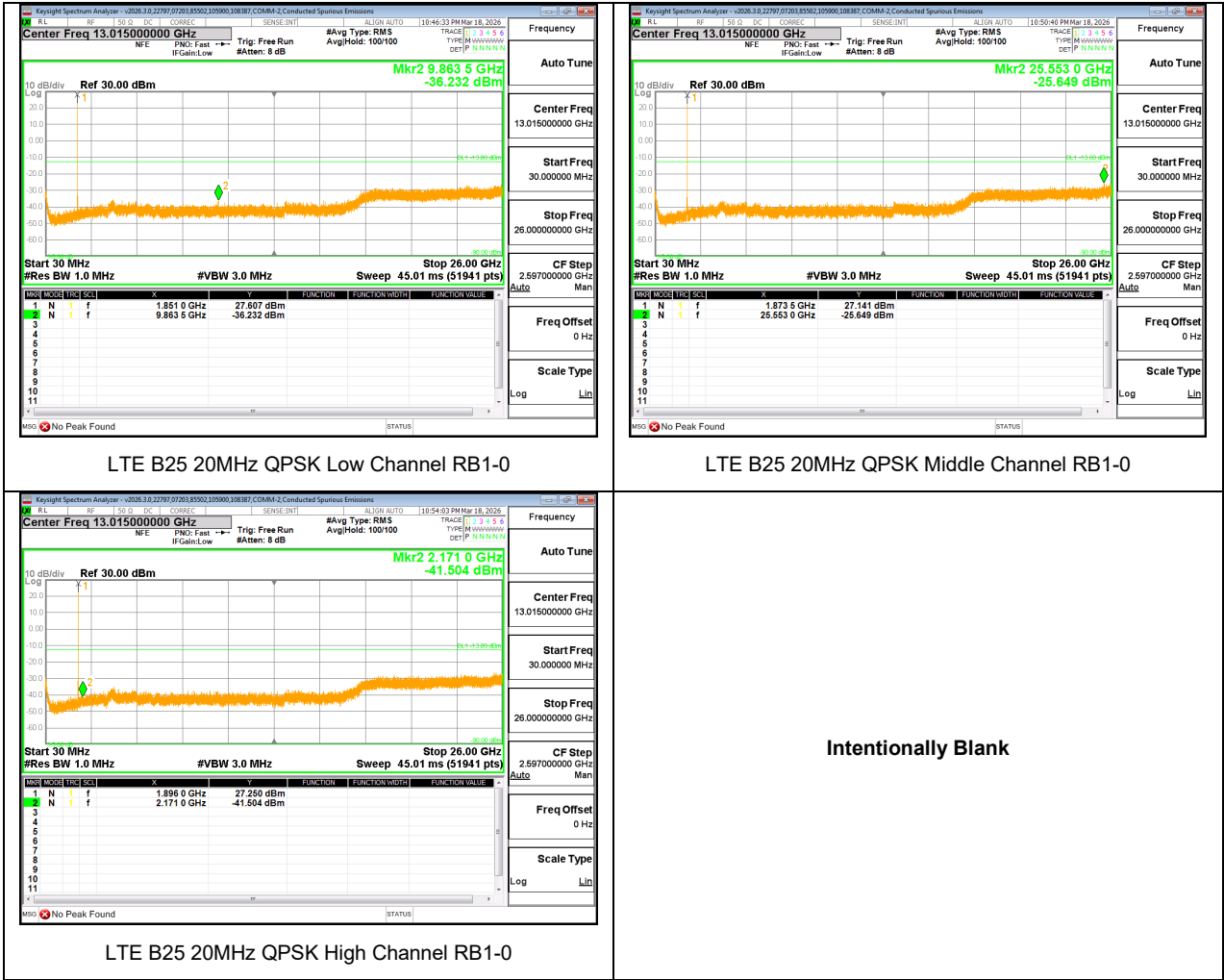
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

QPSK with 1RB is the highest power to all bandwidth. 1RB has the same frequency and power to all bandwidth. Therefore, QPSK with 1RB and wider bandwidths results are reported as worst case for LTE bands.

BPSK with 1RB is the highest power to all bandwidth. 1RB has the same frequency and power to all bandwidth. Therefore, BPSK with 1RB and wider bandwidths results are reported as worst case for 5G NRs.

8.3.1. LTE BAND 25



8.4. FREQUENCY STABILITY

LIMITS

FCC: §24.235

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

ISED: RSS133§5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 115%)
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°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 25 (QPSK 20MHz BANDWIDTH)

Test Engineer ID:		105900	Test Date:		2026-03-05 and 2026-04-08	
Band	25		Frequency Range		Limit	
Condition		1850	1915	Frequency Error Reading (Hz)	2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	1834.6813	1921.8500			
Extreme (50°C)		1834.6812	1921.8500	-6.37	-0.003	Yes
Extreme (40°C)		1834.6812	1921.8500	-4.13	-0.002	Yes
Extreme (30°C)		1834.6812	1921.8500	-5.87	-0.003	Yes
Extreme (10°C)		1834.6812	1921.8500	-4.93	-0.003	Yes
Extreme (0°C)		1834.6812	1921.8500	-3.79	-0.002	Yes
Extreme (-10°C)		1834.6813	1921.8500	3.5	0.002	Yes
Extreme (-20°C)		1834.6812	1921.8500	-6.42	-0.003	Yes
Extreme (-30°C)		1834.6812	1921.8500	-6.98	-0.004	Yes
20°C	End Point Voltage	1834.6812	1921.8500	-6.83	-0.004	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

FCC: §24.232 (d)

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

ISED: RSS133§5.5

In addition, the peak-to-average power ratio (PAPR) of the equipment 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.

RESULT

The worst-case antenna port for conducted power shown. Config 0 was used 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 Conducted output power.

8.5.1. LTE BAND 25

Test Engineer ID:		105900	Test Date:		2026-03-27			
Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power
						Peak	Average	
LTE Band 25	1.4MHz	1882.5	6	0	QPSK	26.68	22.21	4.47
					16QAM	26.49	21.29	5.20
	3MHz		15	0	QPSK	27.07	22.29	4.78
					16QAM	26.96	21.33	5.63
	5MHz		25	0	QPSK	26.99	22.29	4.70
					16QAM	27.08	21.33	5.75
	10MHz		50	0	QPSK	27.14	22.31	4.83
					16QAM	26.99	21.33	5.66
	15MHz		75	0	QPSK	27.41	22.25	5.16
					16QAM	27.48	21.30	6.18
	20MHz		100	0	QPSK	27.36	22.27	5.09
					16QAM	27.57	21.27	6.30
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.

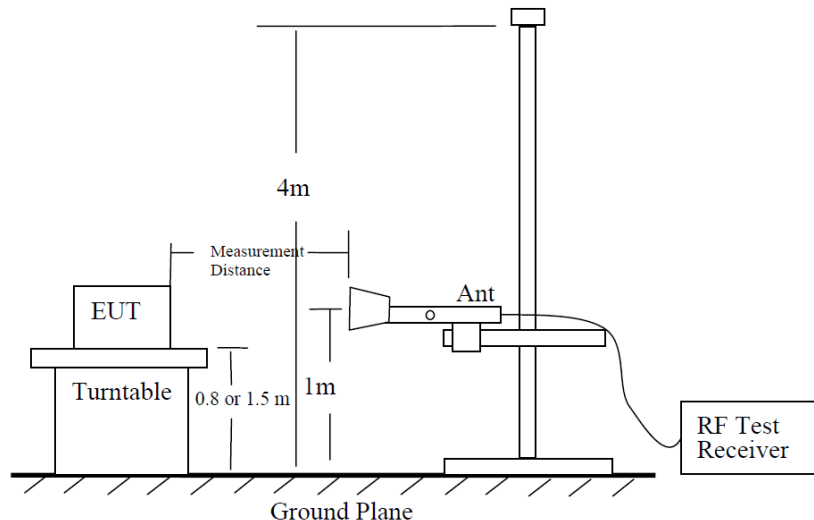


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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 $20*\log(3)=9.5424$

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, §24.232 (c)

RSS133§5.5

LIMITS

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

RSS133§5.5 - The maximum power spectral density of this equipment, measured in terms of average values, shall not exceed 3280 W/MHz e.i.r.p for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-510 for more deployment details in the band 1930-1995 MHz.

Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

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 63.26:2015

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

High Frequency Substitution Measurement UL Morrisville Chamber 4

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

9.1.1. LTE BAND 25

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
1850.700	LTE25 (2) / 1.4 MHz (ANT B)	RB1-0	QPSK	0.150	21.77	33.01	-11.24
1882.500		RB1-3	QPSK	0.145	21.63	33.01	-11.38
1914.300		RB1-5	QPSK	0.154	21.87	33.01	-11.14
1850.700		RB1-0	16QAM	0.130	21.14	33.01	-11.87
1882.500		RB1-3	16QAM	0.122	20.85	33.01	-12.16
1914.300		RB1-5	16QAM	0.104	20.17	33.01	-12.84
1851.500	LTE25 (2) / 3MHz (ANT B)	RB1-0	QPSK	0.149	21.75	33.01	-11.26
1882.500		RB1-8	QPSK	0.151	21.78	33.01	-11.23
1913.500		RB1-14	QPSK	0.155	21.90	33.01	-11.11
1851.500		RB1-0	16QAM	0.127	21.05	33.01	-11.96
1882.500		RB1-8	16QAM	0.130	21.13	33.01	-11.88
1913.500		RB1-14	16QAM	0.134	21.28	33.01	-11.73
1852.500	LTE25 (2) / 5MHz (ANT B)	RB1-0	QPSK	0.152	21.83	33.01	-11.18
1882.500		RB1-12	QPSK	0.152	21.82	33.01	-11.19
1912.500		RB1-24	QPSK	0.157	21.97	33.01	-11.04
1852.500		RB1-0	16QAM	0.133	21.25	33.01	-11.76
1882.500		RB1-12	16QAM	0.127	21.04	33.01	-11.97
1912.500		RB1-24	16QAM	0.113	20.52	33.01	-12.49
1855.000	LTE25 (2) / 10MHz (ANT B)	RB1-0	QPSK	0.151	21.80	33.01	-11.21
1882.500		RB1-25	QPSK	0.149	21.73	33.01	-11.28
1910.000		RB1-49	QPSK	0.155	21.92	33.01	-11.09
1855.000		RB1-0	16QAM	0.129	21.12	33.01	-11.89
1882.500		RB1-25	16QAM	0.125	20.98	33.01	-12.03
1910.000		RB1-49	16QAM	0.131	21.17	33.01	-11.84
1857.500	LTE25 (2) / 15MHz (ANT B)	RB1-0	QPSK	0.153	21.84	33.01	-11.17
1882.500		RB1-37	QPSK	0.151	21.79	33.01	-11.22
1907.500		RB1-74	QPSK	0.153	21.84	33.01	-11.17
1857.500		RB1-0	16QAM	0.128	21.07	33.01	-11.94
1882.500		RB1-37	16QAM	0.126	21.01	33.01	-12.00
1907.500		RB1-74	16QAM	0.130	21.13	33.01	-11.88
1860.000	LTE25(2) / 20MHz (ANT B)	RB1-0	QPSK	0.104	20.18	33.01	-12.83
1882.500		RB1-49	QPSK	0.121	20.81	33.01	-12.20
1905.000		RB1-99	QPSK	0.153	21.85	33.01	-11.16
1860.000		RB1-0	16QAM	0.089	19.48	33.01	-13.53
1882.500		RB1-49	16QAM	0.100	20.01	33.01	-13.00
1905.000		RB1-99	16QAM	0.127	21.05	33.01	-11.96

CONFIG 0

CONFIG 1

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
1850.700	LTE25 (2) / 1.4 MHz (ANT G)	RB1-0	QPSK	0.257	24.10	33.01	-8.91
1882.500		RB1-3	QPSK	0.247	23.93	33.01	-9.08
1914.300		RB1-5	QPSK	0.259	24.14	33.01	-8.87
1850.700		RB1-0	16QAM	0.237	23.75	33.01	-9.26
1882.500		RB1-3	16QAM	0.214	23.31	33.01	-9.70
1914.300		RB1-5	16QAM	0.230	23.62	33.01	-9.39
1851.500	LTE25 (2) / 3MHz (ANT G)	RB1-0	QPSK	0.234	23.70	33.01	-9.31
1882.500		RB1-8	QPSK	0.265	24.23	33.01	-8.78
1913.500		RB1-14	QPSK	0.247	23.92	33.01	-9.09
1851.500		RB1-0	16QAM	0.231	23.63	33.01	-9.38
1882.500		RB1-8	16QAM	0.219	23.41	33.01	-9.60
1913.500		RB1-14	16QAM	0.237	23.75	33.01	-9.26
1852.500	LTE25 (2) / 5MHz (ANT G)	RB1-0	QPSK	0.255	24.07	33.01	-8.94
1882.500		RB1-12	QPSK	0.248	23.95	33.01	-9.06
1912.500		RB1-24	QPSK	0.266	24.25	33.01	-8.76
1852.500		RB1-0	16QAM	0.234	23.69	33.01	-9.32
1882.500		RB1-12	16QAM	0.215	23.32	33.01	-9.69
1912.500		RB1-24	16QAM	0.209	23.20	33.01	-9.81
1855.000	LTE25 (2) / 10MHz (ANT G)	RB1-0	QPSK	0.247	23.93	33.01	-9.08
1882.500		RB1-25	QPSK	0.250	23.98	33.01	-9.03
1910.000		RB1-49	QPSK	0.269	24.29	33.01	-8.72
1855.000		RB1-0	16QAM	0.238	23.77	33.01	-9.24
1882.500		RB1-25	16QAM	0.215	23.33	33.01	-9.68
1910.000		RB1-49	16QAM	0.208	23.18	33.01	-9.83
1857.500	LTE25 (2) / 15MHz (ANT G)	RB1-0	QPSK	0.278	24.44	33.01	-8.57
1882.500		RB1-37	QPSK	0.249	23.97	33.01	-9.04
1907.500		RB1-74	QPSK	0.284	24.53	33.01	-8.48
1857.500		RB1-0	16QAM	0.203	23.07	33.01	-9.94
1882.500		RB1-37	16QAM	0.234	23.70	33.01	-9.31
1907.500		RB1-74	16QAM	0.201	23.04	33.01	-9.97
1860.000	LTE25(2) / 20MHz (ANT G)	RB1-0	QPSK	0.206	23.13	33.01	-9.88
1882.500		RB1-49	QPSK	0.233	23.68	33.01	-9.33
1905.000		RB1-99	QPSK	0.269	24.29	33.01	-8.72
1860.000		RB1-0	16QAM	0.169	22.29	33.01	-10.72
1882.500		RB1-49	16QAM	0.196	22.93	33.01	-10.08
1905.000		RB1-99	16QAM	0.231	23.63	33.01	-9.38

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC: §24.238(a)

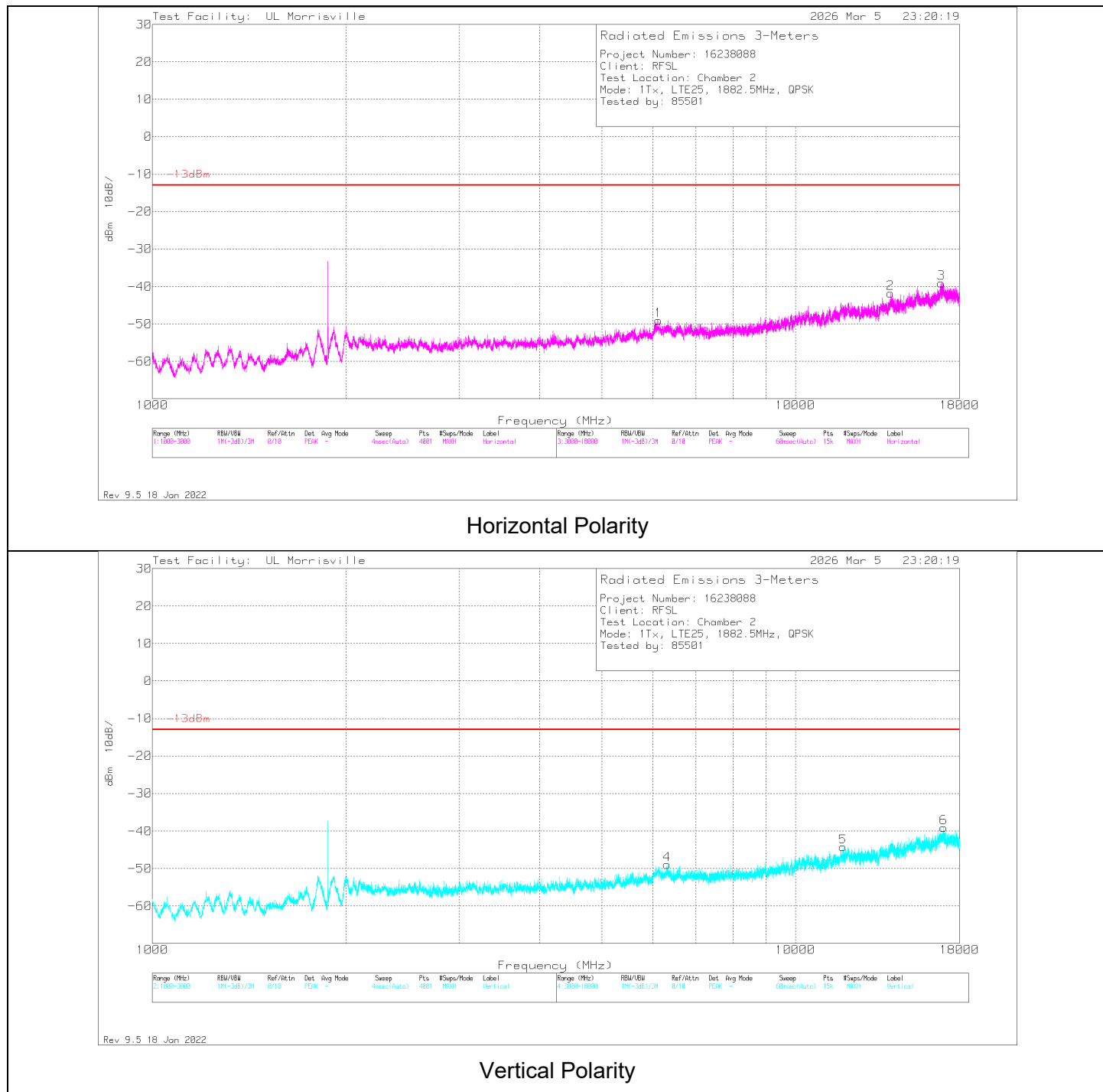
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

ISED: RSS133§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment	
Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

Example Plot



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	88761 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6124	-54.23	Pk	35.6	-42.2	11.8	0	-49.03	-13	-36.03	0-360	299	H
4	6320	-54.97	Pk	35.7	-41.5	11.8	0	-48.97	-13	-35.97	0-360	299	V
5	11851	-56.08	Pk	39	-39	11.8	0	-44.28	-13	-31.28	0-360	200	V
2	14056	-54.85	Pk	39.1	-37.8	11.8	0	-41.75	-13	-28.75	0-360	101	H
3	16851	-55.93	Pk	41.1	-36.1	11.8	0	-39.13	-13	-26.13	0-360	101	H
6	17005	-57.95	Pk	41.3	-34.3	11.8	0	-39.15	-13	-26.15	0-360	299	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 25

LTE BAND 25 (QPSK 20.0MHZ BANDWIDTH, ANT B (Config 0))

Date:	2026-03-06, 2026-03-10
Test Engineer:	115746 / 11993, 115752 / 11993, 85501
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber 2

Frequency (GHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1860MHz									
4446	-52.07	Pk	33.9	11.8	-45.2	-51.57	-13	-38.57	H
4577	-52.69	Pk	34	11.8	-45.2	-52.09	-13	-39.09	V
5878	-52.95	Pk	35.1	11.8	-43.3	-49.35	-13	-36.35	H
5312	-53.07	Pk	34.3	11.8	-43.4	-50.37	-13	-37.37	V
9144	-54.36	Pk	36.1	11.8	-40.6	-47.06	-13	-34.06	H
12072	-57.21	Pk	39.1	11.8	-37.6	-43.91	-13	-30.91	V
Mid Channel, 1882.5MHz									
6124	-54.23	Pk	35.6	11.8	-42.2	-49.03	-13	-36.03	H
6320	-54.97	Pk	35.7	11.8	-41.5	-48.97	-13	-35.97	V
14056	-54.85	Pk	39.1	11.8	-37.8	-41.75	-13	-28.75	H
11851	-56.08	Pk	39	11.8	-39	-44.28	-13	-31.28	V
16851	-55.93	Pk	41.1	11.8	-36.1	-39.13	-13	-26.13	H
17005	-57.95	Pk	41.3	11.8	-34.3	-39.15	-13	-26.15	V
High Channel, 1905MHz									
4591	-52.84	Pk	34	11.8	-44.9	-51.94	-13	-38.94	H
3439	-51.77	Pk	32.9	11.8	-45.2	-52.27	-13	-39.27	V
5330	-52.2	Pk	34.3	11.8	-44.2	-50.3	-13	-37.3	H
6111	-54.08	Pk	35.6	11.8	-42	-48.68	-13	-35.68	V
8105	-55.24	Pk	36	11.8	-41.3	-48.74	-13	-35.74	H
12534	-56.03	Pk	38.8	11.8	-38.2	-43.63	-13	-30.63	V

LTE BAND 25 (QPSK 20.0MHZ BANDWIDTH, ANT G (Config 1))

Date:	2026-03-09
Test Engineer:	115747 / 11993
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber 2

Frequency (GHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 1860MHz									
3702	-45.14	Pk	33.1	11.8	-46.5	-46.74	-13	-33.74	H
3702	-47.6	Pk	33.1	11.8	-46.5	-49.2	-13	-36.2	V
5553	-49.47	Pk	34.6	11.8	-43.8	-46.87	-13	-33.87	H
5553	-48.83	Pk	34.6	11.8	-43.8	-46.23	-13	-33.23	V
12101	-57.45	Pk	39.1	11.8	-38	-44.55	-13	-31.55	H
12071	-57.05	Pk	39.1	11.8	-37.6	-43.75	-13	-30.75	V
Mid Channel, 1882.5MHz									
3747	-44.62	Pk	33.2	11.8	-46	-45.62	-13	-32.62	H
3747	-47.48	Pk	33.2	11.8	-46	-48.48	-13	-35.48	V
5621	-50.33	Pk	34.6	11.8	-44.4	-48.33	-13	-35.33	H
5621	-46.96	Pk	34.6	11.8	-44.4	-44.96	-13	-31.96	V
11535	-55.93	Pk	38.3	11.8	-38.8	-44.63	-13	-31.63	H
11527	-57.22	Pk	38.3	11.8	-39.2	-46.32	-13	-33.32	V
High Channel, 1905MHz									
3792	-44.36	Pk	33.3	11.8	-45.3	-44.56	-13	-31.56	H
3792	-46.91	Pk	33.3	11.8	-45.3	-47.11	-13	-34.11	V
5688	-49.65	Pk	34.7	11.8	-43.6	-46.75	-13	-33.75	H
5688	-44.67	Pk	34.7	11.8	-43.6	-41.77	-13	-28.77	V
8831	-56.79	Pk	35.9	11.8	-39.3	-48.39	-13	-35.39	H
8831	-57.06	Pk	35.9	11.8	-39.3	-48.66	-13	-35.66	V

10. SETUP PHOTOS

Refer to R16238088-EP1c for setup photos.

END OF REPORT