

TEST REPORT

Report Number: 15605535-E6V3

Applicant : SAMSUNG ELECTRONICS CO., LTD
129 SAMSUNG-RO, YEONGTONG-GU
SUWON-SI, GYEONGGI-DO, 16677, KOREA

Model : SM-X626B

FCC ID : A3LSMX626B

EUT Description : GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII
a/b/g/n/ac/ax and Digitizer

Test Standard(s) : FCC 47 CFR PART 2, PART 27

Date Of Issue:
2025-02-24

Prepared by:
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-02-11	Initial Review	Dan Corona
V2	2025-02-13	Updated Section 1, 6.3 and 10.2.2	Kiya Kedida
V3	2025-02-24	Updated Section 9.2.1 and 9.2.2	Kiya Kedida

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. SUMMARY OF TEST RESULTS	6
3. TEST METHODOLOGY	7
4. FACILITIES AND ACCREDITATION	7
5. DECISION RULES AND MEASUREMENT UNCERTAINTY	8
5.1. METROLOGICAL TRACEABILITY	8
5.2. DECISION RULES	8
5.3. MEASUREMENT UNCERTAINTY	8
5.4. SAMPLE CALCULATION.....	8
6. EQUIPMENT UNDER TEST	9
6.1. DESCRIPTION OF EUT	9
6.2. MAXIMUM OUTPUT POWER.....	9
6.3. MAXIMUM ANTENNA GAIN	11
6.4. WORST-CASE CONFIGURATION AND MODE	12
6.5. DESCRIPTION OF TEST SETUP.....	13
7. TEST AND MEASUREMENT EQUIPMENT	15
8. RF OUTPUT POWER VERIFICATION	16
8.1. LTE BAND 41.....	17
8.2. 5G NR n41	19
9. CONDUCTED TEST RESULTS.....	25
9.1. OCCUPIED BANDWIDTH.....	25
9.1.1. LTE BAND 41.....	27
9.1.2. 5G NR n41	28
9.2. EMISSION MASK AND ADJACENT CHANNEL POWER	30
9.2.1. LTE BAND 41.....	32
9.2.2. 5G NR n41	38
9.3. OUT OF BAND EMISSIONS.....	55
9.3.1. LTE BAND 41.....	56
9.3.2. 5G NR n41	57
9.4. FREQUENCY STABILITY	58

9.4.1.	LTE B41 (QPSK 20MHz BANDWIDTH).....	59
9.4.2.	5G NR n41 (BPSK 100MHz BANDWIDTH)	60
9.5.	PEAK-TO-AVERAGE POWER RATIO	61
9.5.1.	LTE BAND 41.....	62
9.5.2.	5G NR n41	62
10.	RADIATED TEST RESULTS	63
10.1.	EFFECTIVE RADIATED POWER ERP/EIRP	63
10.1.1.	LTE Band 41.....	67
10.1.2.	5G NR n41.....	69
10.2.	FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz.....	73
10.2.1.	LTE BAND 41	77
10.2.2.	5G NR n41.....	78
11.	SETUP PHOTOS.....	82

1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	SAMSUNG ELECTRONICS CO., LTD 129 SAMSUNG-RO, YEONGTONG-GU SUWON-SI, GYEONGGI-DO, 16677, KOREA	
Model	SM-X626B	
FCC ID	A3LSMX626B	
EUT Description	GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer	
Serial Number	Conducted: R32XC0005VL and R32XC0005YP Radiated: R32XC000V3J and R32XC000PKY	
Sample Receipt Date	2024-12-13	
Date Tested	2014-12-17 to 2025-02-06	
Applicable Standards	FCC 47 CFR PART 2, PART 27	
Test Results	COMPLIES	
UL Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.		
Approved & Released By:	Reviewed By:	Prepared By:
		
Dan Corona Operations Leader UL Verification Services Inc.	Kiya Kedida Lead Project Engineer UL Verification Services Inc.	Glenn Escano Senior Test Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer."

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Result	Remarks
Equivalent Isotropic Radiated Power	27.50 (h) (2)	Compiles	
Occupied Bandwidth	2.1049	Compiles	
Band Edge and Emission Mask	2.1051, 27.53 (m)(4) & (m) (6)	Compiles	
Out of Band Emissions	2.1051, 27.53 (m)(4) & (m) (6)	Compiles	
Frequency Stability	2.1055, 27.54	Compiles	
Peak-to-Average Ratio	-	Compiles	
Field Strength of Spurious Radiation	2.1053, 27.53 (m)(4) & (m) (6)	Compiles	

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- ANSI C63.26:2015
- FCC 47 CFR Part 2, Part 27
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, 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 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

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}
Conducted Antenna Port Emission Measurement	1.940 db
Power Spectral Density	2.466 db
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 db Ave. 1.300 db Peak
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 db
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 db
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 db
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 db
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 db
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 db
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 db

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/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$ERP/EIRP = P_{Meas} + GT - LC$

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

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

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

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

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

LTE BAND 41

Part 27							
EIRP Limit (W)		2.00					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2498.5	2687.5	22.22	0.167	4481	4M48G7W
	16QAM			22.09	0.162	4489	4M49D7W
10.0	QPSK	2501.0	2685.0	22.29	0.169	9009	9M01G7W
	16QAM			22.13	0.163	8966	8M97D7W
15.0	QPSK	2503.5	2682.5	22.33	0.171	13426	13M4G7W
	16QAM			22.07	0.161	13447	13M4D7W
20.0	QPSK	2506.0	2680.0	22.45	0.176	17886	17M9G7W
	16QAM			22.08	0.161	17891	17M9D7W

5G NR n41

Part 27							
EIRP Limit (W)		2.00					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10.0	BPSK	2501.0	2685.0	21.98	0.158	8610	8M61G7W
	16QAM			21.00	0.126	8629	8M63D7W
15.0	BPSK	2503.5	2682.5	22.43	0.175	12920	12M9G7W
	16QAM			21.10	0.129	12913	12M9D7W
20.0	BPSK	2506.0	2680.0	22.47	0.177	17918	17M9G7W
	16QAM			21.25	0.133	17895	17M9D7W
30.0	BPSK	2511.0	2675.0	22.45	0.176	26831	26M8G7W
	16QAM			21.35	0.136	26897	26M9D7W
40.0	BPSK	2516.0	2670.0	22.54	0.179	35818	35M8G7W
	16QAM			21.44	0.139	35825	35M8D7W
50.0	BPSK	2521.0	2665.0	22.73	0.187	45790	45M8G7W
	16QAM			21.28	0.134	45824	45M8D7W
60.0	BPSK	2526.0	2660.0	22.60	0.182	57987	58M0G7W
	16QAM			21.29	0.135	58169	58M2D7W
70.0	BPSK	2531.0	2655.0	22.58	0.181	64428	64M4G7W
	16QAM			21.22	0.132	64302	64M3D7W
80.0	BPSK	2536.0	2650.0	22.77	0.189	77405	77M4G7W
	16QAM			21.35	0.136	77182	77M2D7W
90.0	BPSK	2541.0	2645.0	22.72	0.187	86909	86M9G7W
	16QAM			21.37	0.137	86838	86M8D7W
100.0	BPSK	2546.0	2640.0	22.78	0.190	96419	96M4G7W
	16QAM			21.44	0.139	96246	96M2D7W

6.3. MAXIMUM ANTENNA GAIN

The radio utilizes a Metal antenna, with a maximum gain provided by the manufacturer are as follows:

LTE Bands (SISO)	Frequency Range (MHz)	Mian ANT 1 Gain (dBi)	Sub ANT 1 Gain (dBi)	Sub ANT 2 Gain (dBi)	Sub ANT 3 Gain (dBi)
LTE Band 41	2496 – 2690	-0.23	-5.41	N/A	N/A
5G NR n41	2496 – 2690	-0.23	-5.41	-3.75	-3.66

6.4. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- LTE Band 41, 5G NR n41

For LTE and 5G NR, conducted spurious emission tests were conducted on wider bandwidth with inner 1RB since this is the worst bandwidth and the highest output power.

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.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and BPSK were observed as the worst mode to LTE and 5G NR bands respectively and set for all conducted and radiated. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on sections 8 and 9 were measured while BPSK was set at or above target power for all bands. Conducted tests were performed on the worst case antenna port because it has the highest conducted power. The worst case antenna port is shown in the table below.

5G NR Band 41 Sub Antenna 1, Sub Antenna 2, Sub Antenna 3 is covered by 5G NR Band 41 Main Antenna 1 because Sub Antenna1, Sub Antenna 2, Sub Antenna 3 have same or lower output power, and lower peak antenna gain than Main Antenna 1.

LTE and 5G NR Bands	Worst case Antenna Port for Conducted Power
5 LTE Band 41 and 5G NR n41	Main Ant 1

The EUT was investigated in three orthogonal orientations X/Y/Z on all antenna to determine the worst-case orientation. The full tests of the EUT have made upon the orientations that shown in the table below.

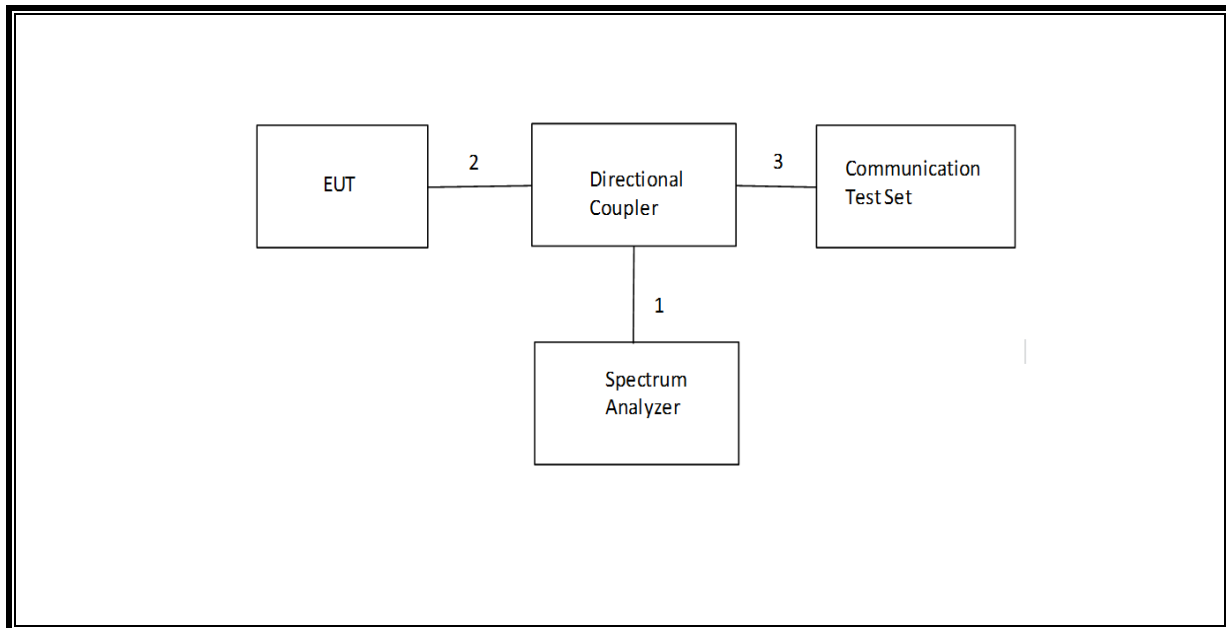
Frequency Range	Main ANT1	Sub ANT1	Sub ANT2	Sub ANT3
2300 – 2700 MHz	X	X	X	X

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz.

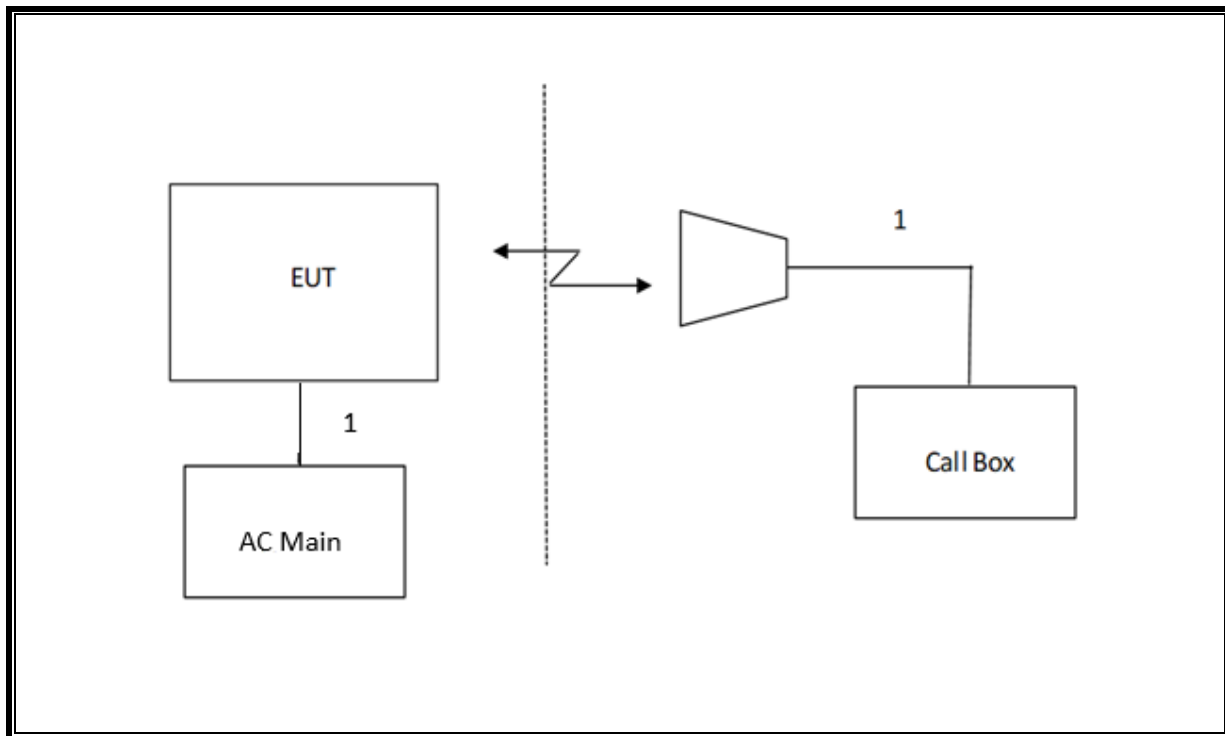
6.5. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
AC/DC adapter		Samsung	EP-TA800	R37WBAA004BDKA		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF Out	1	Spectrum Analyzer	Shielded	None	N/A
2	Antenna Port	1	EUT	Shielded	0.1m	N/A
3	RF In/Out	1	Communication Test Set	Shielded	1m	N/A
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB	Shielded	1	N/A

CONDUCTED SETUP



RADIATED SETUP



7. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Horn 1-18GHz	ETS Lindgren	3117	206808	2026-04-30
Antenna, Horn 1-18GHz	ETS Lindgren	3117	79834	2025-07-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	SunAR RF Motion	JB3	203089	2025-04-30
Antenna, Dipole	ETS-Lindgren	3121C DB4	89477	2025-10-31
RF Filter Box, 1-18GHz	UL-FR1	SAC 8 port rf box 1	197920	2025-03-31
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	175953	2025-05-17
EMI Test Receiver, 1Hz to 44GHz	Rohde & Schwarz	ESW	225688	2025-02-28
EMI Test Receiver, 2Hz to 44GHz	Rohde & Schwarz	ESW	169935	2025-02-28
Spectrum Analyzer, PSA 3Hz to 44GHz	Keysight	N9030A	87738	2026-01-31
Directional Coupler	KRYTAR	152610	254457	2025-10-31
Directional Coupler	KRYTAR	152610	246234	2025-04-30
Power Meter, P-series single channel	Keysight	N1911A	90719	2026-01-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	90389	2026-01-31
Frankenstein 2A	UL Solutions	F2A	237597	2025-10-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85214	2026-01-31
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	230295	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85727	2025-06-26
UXM 5G Wireless Test Platform	Keysight	E7515B	245172	2025-02-28
Chamber, Environmental	Thermotron Corporation	SM-16C Mini-Max	179936	2025-01-31
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	V2023.11.21.0	
Power Measurement Software	UL	UL RF	V2023.08.14.0	
Radiated test software	UL	UL RF	Ver 9.5 2023-05-01	

NOTES:

- * Testing is completed before equipment expiration date.

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.

The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULTS

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

8.1. LTE BAND 41

Test Engineer ID:	27966	Test Date:	2024-12-17
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OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				39675	40620	41565
				2498.5 MHz	2593.0 MHz	2687.5 MHz
5.0	QPSK	1	0	24.24	24.40	24.70
		1	12	24.10	24.53	24.61
		1	24	24.27	24.46	24.91
		12	0	23.38	23.36	23.90
		12	6	23.42	23.33	23.88
		12	11	23.38	23.29	23.95
		25	0	23.41	23.32	23.92
	16QAM	1	0	23.29	23.30	24.00
		1	12	23.04	23.34	23.88
		1	24	23.39	23.26	24.05
		12	0	22.50	22.31	23.00
		12	6	22.48	22.33	23.00
		12	11	22.53	22.36	22.95
		25	0	22.50	22.40	22.94
	64QAM	1	0	22.20	22.97	23.22
		1	12	22.22	22.92	23.22
		1	24	22.33	22.93	23.21
		12	0	21.58	21.58	21.96
		12	6	21.60	21.58	21.96
		12	11	21.57	21.60	21.98
		25	0	21.67	21.49	21.95
	256QAM	1	0	19.83	19.53	20.20
		1	12	19.95	19.50	20.12
		1	24	19.86	19.58	20.13
		12	0	19.57	19.45	20.00
		12	6	19.56	19.44	19.98
		12	11	19.57	19.41	20.01
		25	0	19.59	19.46	19.98

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				39700	40620	41540
				2501.0 MHz	2593.0 MHz	2685.0 MHz
10.0	QPSK	1	0	24.62	24.25	24.96
		1	24	24.54	24.35	24.83
		1	49	24.51	24.33	24.86
		25	0	23.57	23.37	23.95
		25	12	23.55	23.42	23.96
		25	24	23.55	23.40	23.95
		50	0	23.55	23.37	23.94
	16QAM	1	0	23.62	23.44	23.93
		1	24	23.59	23.40	23.99
		1	49	23.74	23.56	23.92
		25	0	22.59	22.39	22.97
		25	12	22.57	22.42	23.00
		25	24	22.58	22.40	22.96
		50	0	22.62	22.44	22.98
	64QAM	1	0	22.21	22.85	23.17
		1	24	22.35	22.70	23.18
		1	49	22.25	22.76	23.08
		25	0	21.70	21.50	21.97
		25	12	21.71	21.50	21.97
		25	24	21.71	21.50	21.99
		50	0	21.66	21.49	22.05
	256QAM	1	0	19.74	19.22	20.05
		1	24	19.76	19.23	20.23
		1	49	19.78	19.25	19.99
		25	0	19.67	19.50	20.03
		25	12	19.66	19.47	20.03
		25	24	19.65	19.50	20.00
		50	0	19.70	19.42	20.03

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				39725	40620	41515
				2503.5 MHz	2593.0 MHz	2682.5 MHz
15.0	QPSK	1	0	24.60	24.50	25.00
		1	37	24.70	24.30	24.70
		1	74	24.80	24.40	24.80
		36	0	24.20	23.40	24.00
		36	16	24.40	23.40	24.00
		36	35	24.40	23.50	24.00
		75	0	24.30	23.40	24.00
	16QAM	1	0	23.70	23.30	23.90
		1	37	24.00	23.30	23.80
		1	74	24.40	23.40	24.00
		36	0	23.40	22.40	23.00
		36	16	23.50	22.40	23.00
		36	35	23.50	22.40	23.00
		75	0	23.40	22.40	23.00
	64QAM	1	0	23.10	22.00	23.20
		1	37	23.00	22.20	23.30
		1	74	23.40	22.10	23.30
		36	0	22.40	21.50	22.10
		36	16	22.50	21.50	22.10
		36	35	22.50	21.50	22.10
		75	0	22.50	21.50	22.10
	256QAM	1	0	20.50	19.50	19.80
		1	37	20.60	19.00	19.70
		1	74	20.60	19.50	19.80
		36	0	20.40	19.40	20.10
		36	16	20.40	19.40	20.10
		36	35	20.40	19.50	20.10
		75	0	20.50	19.40	20.00

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				39750	40620	41490
				2506.0 MHz	2593.0 MHz	2680.0 MHz
20.0	QPSK	1	0	25.00	24.50	24.90
		1	49	24.70	24.30	24.80
		1	99	24.60	24.50	24.90
		50	0	24.30	23.50	24.00
		50	24	24.50	23.50	24.00
		50	49	24.50	23.50	24.10
		100	0	24.50	23.50	24.00
	16QAM	1	0	24.00	23.30	23.80
		1	49	24.60	23.60	23.60
		1	99	24.60	23.40	23.90
		50	0	23.50	22.40	23.00
		50	24	23.50	22.40	23.00
		50	49	23.50	22.50	23.10
		100	0	23.50	22.50	23.00
	64QAM	1	0	23.40	22.40	23.30
		1	49	23.60	22.60	23.40
		1	99	23.50	22.60	23.50
		50	0	22.50	21.50	22.00
		50	24	22.60	21.60	22.10
		50	49	22.60	21.60	22.10
		100	0	22.60	21.60	22.10
	256QAM	1	0	20.50	19.70	20.00
		1	49	20.50	19.80	20.00
		1	99	20.50	19.80	20.10
		50	0	20.50	19.50	20.00
		50	24	20.50	19.50	20.00
		50	49	20.50	19.50	20.00
		100	0	20.50	19.50	20.00

8.2. 5G NR n41

Test Engineer ID:	27966	Test Date:	2025-01-10
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OUTPUT POWER FOR 5G NR n41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				500202	518598	537000
				2501.0 MHz	2593.0 MHz	2685.0 MHz
10.0	BPSK	1	0	24.33	24.08	24.42
		1	1	24.50	24.57	24.95
		1	22	24.54	24.64	24.96
		1	23	24.08	24.15	24.59
		12	6	24.59	24.56	24.98
		24	0	24.08	24.02	24.50
	QPSK	1	0	23.51	23.55	24.03
		1	1	24.50	24.55	24.85
		1	22	24.62	24.61	24.99
		1	23	23.79	23.64	24.09
		12	6	24.61	24.58	24.97
		24	0	23.62	23.56	23.99
	16QAM	1	0	22.80	22.54	23.03
		1	1	23.72	23.49	24.00
		1	22	23.87	23.40	23.95
		1	23	22.89	22.42	23.15
		12	6	23.65	23.60	23.99
		24	0	22.59	22.57	22.99
	64QAM	1	0	21.66	21.92	22.52
		1	1	22.21	21.77	22.44
		1	22	22.12	22.06	22.60
		1	23	21.79	21.88	22.68
		12	6	22.18	21.98	22.45
		24	0	22.05	22.04	22.47
	256QAM	1	0	20.14	19.97	20.58
		1	1	19.91	20.12	20.66
		1	22	20.00	20.07	20.61
		1	23	20.16	20.00	20.58
		12	6	20.17	20.14	20.51
		24	0	20.03	20.03	20.43

OUTPUT POWER FOR 5G NR n41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				500700	518598	536496
				2503.5 MHz	2593.0 MHz	2682.5 MHz
15.0	BPSK	1	0	24.20	23.98	24.27
		1	1	24.51	24.48	24.71
		1	36	24.71	24.58	24.90
		1	37	24.23	24.09	24.43
		18	9	24.64	24.56	24.95
		36	0	24.16	24.08	24.43
	QPSK	1	0	23.66	23.52	23.81
		1	1	24.64	24.57	24.83
		1	36	24.79	24.64	24.84
		1	37	23.73	23.63	23.82
		18	9	24.65	24.52	24.96
		36	0	23.64	23.57	23.96
	16QAM	1	0	22.63	22.47	22.99
		1	1	23.68	23.52	23.97
		1	36	23.77	23.59	24.09
		1	37	22.81	22.56	23.12
		18	9	23.70	23.57	24.01
		36	0	22.61	22.56	22.99
	64QAM	1	0	22.37	21.91	22.58
		1	1	22.38	21.87	22.69
		1	36	22.44	22.02	22.69
		1	37	22.48	21.96	22.69
		18	9	22.14	22.05	22.44
		36	0	22.14	22.08	22.45
	256QAM	1	0	19.93	19.94	20.11
		1	1	19.92	19.90	20.12
		1	36	20.06	20.09	20.27
		1	37	20.07	20.01	20.21
		18	9	20.11	20.08	20.46
		36	0	20.08	20.01	20.44

OUTPUT POWER FOR 5G NR n41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				501204	518598	535998
				2506.0 MHz	2593.0 MHz	2680.0 MHz
20.0	BPSK	1	0	24.06	23.99	24.33
		1	1	24.58	24.50	24.84
		1	49	24.65	24.60	24.94
		1	50	24.15	24.05	24.58
		25	12	24.64	24.53	24.92
		50	0	24.13	24.02	24.38
	QPSK	1	0	23.52	23.36	23.70
		1	1	24.53	24.40	24.74
		1	49	24.73	24.48	24.90
		1	50	23.79	23.48	23.93
		25	12	24.66	24.57	24.94
		50	0	23.66	23.54	23.91
	16QAM	1	0	22.38	22.31	22.78
		1	1	23.38	23.32	23.78
		1	49	23.54	22.53	24.03
		1	50	22.68	22.53	22.97
		25	12	23.73	23.59	23.89
		50	0	22.65	22.49	22.92
	64QAM	1	0	22.04	22.06	22.41
		1	1	22.05	22.08	22.41
		1	49	22.20	22.17	22.58
		1	50	22.23	22.20	22.49
		25	12	22.13	22.04	22.39
		50	0	22.12	22.05	22.36
	256QAM	1	0	20.01	19.98	20.36
		1	1	20.02	19.99	20.30
		1	49	20.21	20.18	20.57
		1	50	20.19	20.17	20.54
		25	12	20.13	20.00	20.39
		50	0	20.17	19.99	20.40

OUTPUT POWER FOR 5G NR n41 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				502200	518598	524996
				2511.0 MHz	2593.0 MHz	2675.0 MHz
30.0	BPSK	1	0	23.99	23.98	24.20
		1	1	24.52	24.49	24.71
		1	76	24.73	24.58	24.96
		1	77	24.27	24.03	24.52
		36	18	24.74	24.56	24.86
		75	0	24.20	24.06	24.36
	QPSK	1	0	23.51	23.42	23.76
		1	1	24.53	24.42	24.78
		1	76	24.78	24.53	24.88
		1	77	23.77	23.46	24.08
		36	18	24.73	24.56	24.85
		75	0	23.72	23.53	23.86
	16QAM	1	0	22.30	22.57	22.71
		1	1	23.46	23.31	23.68
		1	76	23.49	23.37	24.10
		1	77	22.66	22.39	23.05
		36	18	23.70	23.55	23.90
		75	0	22.70	22.52	22.84
	64QAM	1	0	22.04	21.65	21.92
		1	1	22.01	21.65	21.94
		1	76	22.14	21.75	22.24
		1	77	22.15	21.81	22.24
		36	18	22.20	22.03	22.33
		75	0	22.23	22.00	22.35
	256QAM	1	0	20.20	19.86	20.23
		1	1	20.25	19.87	20.26
		1	76	20.41	19.89	20.56
		1	77	20.40	19.85	20.56
		36	18	20.16	20.03	20.32
		75	0	20.16	20.00	20.32

OUTPUT POWER FOR 5G NR n41 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				503202	518598	534000
				2516.0 MHz	2593.0 MHz	2670.0 MHz
40.0	BPSK	1	0	23.95	23.77	24.11
		1	1	24.42	24.28	24.46
		1	104	24.90	24.38	24.87
		1	105	24.44	23.89	24.35
		50	25	24.74	24.55	24.79
		100	0	24.21	24.02	24.27
	QPSK	1	0	23.50	23.32	23.51
		1	1	24.49	24.34	24.52
		1	104	24.77	24.46	24.91
		1	105	23.81	23.43	23.89
		50	25	24.76	24.55	24.81
		100	0	23.70	23.51	23.79
	16QAM	1	0	22.54	22.32	22.56
		1	1	23.52	23.24	23.58
		1	104	23.89	23.39	23.99
		1	105	22.83	22.44	23.00
		50	25	23.75	23.53	23.77
		100	0	22.70	22.48	22.76
	64QAM	1	0	22.13	21.96	21.93
		1	1	22.14	21.93	21.97
		1	104	22.42	22.06	22.45
		1	105	22.46	22.07	22.43
		50	25	22.22	22.09	22.33
		100	0	22.17	21.95	22.26
	256QAM	1	0	19.83	20.26	19.88
		1	1	19.87	20.27	19.92
		1	104	20.14	20.35	20.35
		1	105	20.16	20.24	20.31
		50	25	20.16	20.00	20.30
		100	0	20.18	19.93	20.26

OUTPUT POWER FOR 5G NR n41 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				504204	518598	532998
				2521.0 MHz	2593.0 MHz	2665.0 MHz
50.0	BPSK	1	0	24.01	23.84	24.03
		1	1	24.47	24.33	24.52
		1	131	24.73	24.45	24.96
		1	132	24.21	23.92	24.46
		64	32	24.81	24.54	24.75
		128	0	24.27	24.01	24.23
	QPSK	1	0	23.54	23.34	23.52
		1	1	24.56	24.35	24.52
		1	131	24.80	24.45	24.95
		1	132	23.79	23.45	23.91
		64	32	24.82	24.57	24.75
		128	0	23.80	23.52	23.73
	16QAM	1	0	22.52	22.31	22.53
		1	1	23.52	23.24	23.56
		1	131	23.75	23.40	24.01
		1	132	22.71	22.52	23.00
		64	32	23.83	23.52	23.77
		128	0	22.77	22.51	22.70
	64QAM	1	0	22.15	21.72	21.94
		1	1	22.14	21.70	21.96
		1	131	22.37	21.86	22.41
		1	132	22.38	21.83	22.42
		64	32	22.34	22.01	22.22
		128	0	22.28	21.99	22.19
	256QAM	1	0	19.92	19.76	20.01
		1	1	19.90	19.83	20.05
		1	131	20.13	20.07	20.48
		1	132	20.08	19.93	20.51
		64	32	20.30	20.01	20.21
		128	0	20.25	19.96	20.22

OUTPUT POWER FOR 5G NR n41 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				505200	518598	531996
				2526.0 MHz	2593.0 MHz	2660.0 MHz
60.0	BPSK	1	0	23.90	23.90	23.91
		1	1	24.45	24.41	24.44
		1	160	24.53	24.39	24.94
		1	161	24.01	23.83	24.44
		81	40	24.79	24.56	24.69
		162	0	24.31	24.02	24.22
	QPSK	1	0	23.43	23.38	23.44
		1	1	24.45	24.42	24.43
		1	160	24.55	24.41	24.96
		1	161	23.53	23.39	23.93
		81	40	24.80	24.56	24.69
		162	0	23.78	23.52	23.71
	16QAM	1	0	22.40	22.32	22.47
		1	1	23.45	23.28	23.50
		1	160	23.45	23.35	23.94
		1	161	22.60	22.26	22.99
		81	40	23.80	23.56	23.74
		162	0	22.77	22.53	22.75
	64QAM	1	0	21.93	21.95	21.90
		1	1	21.95	21.99	21.91
		1	160	22.03	21.96	22.38
		1	161	21.99	21.94	22.36
		81	40	22.29	22.03	22.21
		162	0	22.24	22.00	22.23
	256QAM	1	0	19.65	19.96	19.70
		1	1	19.71	19.83	19.72
		1	160	19.75	19.52	20.26
		1	161	19.78	19.52	20.24
		81	40	20.28	20.03	20.16
		162	0	20.25	19.97	20.20

OUTPUT POWER FOR 5G NR n41 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				506202	518598	531000
				2531.0 MHz	2593.0 MHz	2655.0 MHz
70.0	BPSK	1	0	23.95	23.95	23.84
		1	1	24.48	24.47	24.37
		1	187	24.43	24.43	24.92
		1	188	23.91	23.91	24.42
		90	45	24.83	24.55	24.62
		180	0	24.35	24.01	24.11
	QPSK	1	0	23.46	23.47	23.33
		1	1	24.50	24.48	24.35
		1	187	24.42	24.41	24.90
		1	188	23.41	23.39	23.90
		90	45	24.85	24.56	24.64
		180	0	23.80	23.50	23.60
	16QAM	1	0	22.58	22.65	22.37
		1	1	23.62	23.67	23.40
		1	187	23.65	23.61	23.93
		1	188	22.53	22.60	22.92
		90	45	23.87	23.54	23.62
		180	0	22.82	22.50	22.62
	64QAM	1	0	21.77	22.00	21.83
		1	1	21.80	21.92	21.80
		1	187	21.74	21.89	22.43
		1	188	21.72	21.83	22.40
		90	45	22.37	22.01	22.11
		180	0	22.31	21.98	22.09
	256QAM	1	0	19.92	20.08	20.15
		1	1	19.96	20.13	20.14
		1	187	19.88	20.12	20.74
		1	188	19.86	20.00	20.72
		90	45	20.31	20.02	20.10
		180	0	20.27	19.97	20.10

OUTPUT POWER FOR 5G NR n41 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				507204	518598	529998
				2536.0 MHz	2593.0 MHz	2650.0 MHz
80.0	BPSK	1	0	23.98	24.04	23.87
		1	1	24.56	24.54	24.42
		1	215	24.36	24.50	24.99
		1	216	23.85	23.97	24.42
		108	54	24.86	24.57	24.60
		216	0	24.36	24.02	24.13
	QPSK	1	0	23.50	23.52	23.38
		1	1	24.60	24.55	24.46
		1	215	24.37	24.50	24.98
		1	216	23.33	23.47	23.95
		108	54	24.87	24.57	24.64
		216	0	23.90	23.49	23.61
	16QAM	1	0	22.54	22.51	22.34
		1	1	23.62	23.57	23.39
		1	215	23.25	23.62	24.10
		1	216	22.23	22.54	23.06
		108	54	23.88	23.58	23.62
		216	0	22.88	22.49	22.59
	64QAM	1	0	22.12	22.07	21.78
		1	1	22.20	22.12	21.86
		1	215	22.04	22.11	22.36
		1	216	22.00	22.06	22.33
		108	54	22.38	22.04	22.12
		216	0	22.41	22.01	22.07
	256QAM	1	0	20.08	20.09	19.95
		1	1	20.17	20.13	20.00
		1	215	19.96	19.83	20.53
		1	216	19.93	19.98	20.48
		108	54	20.35	20.04	20.13
		216	0	20.32	19.94	20.10

OUTPUT POWER FOR 5G NR n41 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				508200	518598	528996
				2541.0 MHz	2593.0 MHz	2645.0 MHz
90.0	BPSK	1	0	23.97	24.05	23.97
		1	1	24.60	24.66	24.58
		1	243	24.54	24.59	24.97
		1	244	23.90	23.98	24.44
		120	60	24.88	24.54	24.56
		243	0	24.36	24.01	24.09
	QPSK	1	0	23.47	23.53	23.40
		1	1	24.61	24.64	24.54
		1	243	24.53	24.56	24.99
		1	244	23.41	23.47	23.91
		120	60	24.87	24.55	24.57
		243	0	23.89	23.49	23.58
	16QAM	1	0	22.50	22.57	22.52
		1	1	23.59	23.71	23.61
		1	243	23.50	23.61	24.10
		1	244	22.53	22.51	23.01
		120	60	23.86	23.54	23.54
		243	0	22.84	22.47	22.55
	64QAM	1	0	21.97	22.08	21.86
		1	1	22.06	22.19	21.98
		1	243	21.93	22.10	22.51
		1	244	21.88	22.01	22.34
		120	60	22.34	22.01	22.03
		243	0	22.35	21.97	22.08
	256QAM	1	0	20.03	20.08	19.83
		1	1	20.16	20.19	19.94
		1	243	20.07	20.02	20.41
		1	244	19.98	19.89	20.28
		120	60	20.32	20.00	20.02
		243	0	20.32	19.97	20.04

OUTPUT POWER FOR 5G NR n41 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)		
				509202	518598	528000
				2546.0 MHz	2593.0 MHz	2640.0 MHz
100.0	BPSK	1	0	23.85	24.05	23.84
		1	1	24.57	24.74	24.56
		1	271	24.61	24.59	24.98
		1	272	23.95	23.94	24.39
		135	67	24.76	24.54	24.61
		270	0	24.26	23.98	24.12
	QPSK	1	0	23.39	23.55	23.31
		1	1	24.59	24.75	24.51
		1	271	24.62	24.60	24.96
		1	272	23.45	23.39	23.85
		135	67	24.78	24.59	24.60
		270	0	23.78	23.51	23.62
	16QAM	1	0	22.33	22.69	22.28
		1	1	23.56	23.80	23.43
		1	271	23.58	23.66	23.95
		1	272	22.46	22.49	22.76
		135	67	23.80	23.53	23.60
		270	0	22.77	22.49	22.60
	64QAM	1	0	21.96	22.14	21.71
		1	1	22.15	22.28	21.87
		1	271	22.15	22.14	22.42
		1	272	21.97	21.96	22.29
		135	67	22.31	22.02	22.09
		270	0	22.27	21.98	22.06
	256QAM	1	0	19.85	20.07	19.73
		1	1	19.99	20.19	19.94
		1	271	19.98	20.02	20.41
		1	272	19.80	19.85	20.29
		135	67	20.23	20.05	20.08
		270	0	20.26	19.95	20.10

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

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

RESULTS

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

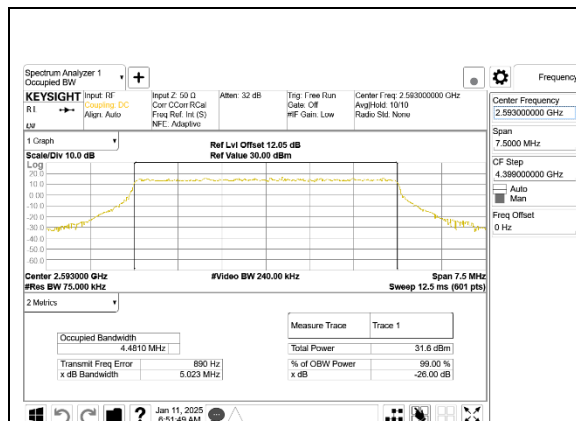
LTE BAND 41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 41	5MHz, QPSK	25/0	2593.0	4.4810	5.023
	5MHz, 16QAM			4.4890	5.198
	10MHz, QPSK	50/0		9.0090	10.20
	10MHz, 16QAM			8.9660	10.12
	15MHz, QPSK	75/0		13.426	15.08
	15MHz, 16QAM			13.447	14.95
	20MHz, QPSK	100/0		17.886	19.69
	20MHz, 16QAM			17.891	19.66
	20MHz, QPSK	1/0		0.2714	0.4609

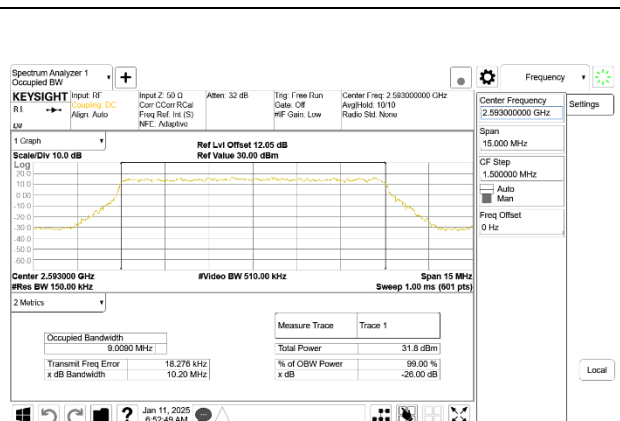
5G NR n41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n41 (FCC)	10MHz, BPSK	24/0	2593.0	8.6108	10.04
	10MHz, QPSK			8.6300	10.07
	10MHz, 16QAM			8.6290	10.06
	15MHz, BPSK	36/0		12.920	14.48
	15MHz, QPSK			12.880	14.49
	15MHz, 16QAM			12.913	14.46
	20MHz, BPSK	50/0		17.918	19.83
	20MHz, QPSK			17.952	19.71
	20MHz, 16QAM			17.895	19.61
	30MHz, BPSK	75/0		26.831	29.17
	30MHz, QPSK			26.883	29.27
	30MHz, 16QAM			26.897	29.24
	40MHz, BPSK	100/0		35.818	38.39
	40MHz, QPSK			35.845	38.56
	40MHz, 16QAM			35.825	38.37
	50MHz, BPSK	128/0		45.790	49.97
	50MHz, QPSK			45.808	49.50
	50MHz, 16QAM			45.824	50.08
	60MHz, BPSK	162/0		57.987	64.01
	60MHz, QPSK			58.024	64.16
	60MHz, 16QAM			58.169	64.52
	70MHz, BPSK	180/0		64.428	72.33
	70MHz, QPSK			64.500	71.34
	70MHz, 16QAM			64.302	71.47
	80MHz, BPSK	216/0		77.405	83.56
	80MHz, QPSK			77.240	83.20
	80MHz, 16QAM			77.182	84.42
	90MHz, BPSK	243/0		86.909	93.62
	90MHz, QPSK			86.753	93.16
	90MHz, 16QAM			86.838	94.47
	100MHz, BPSK	270/0		96.419	103.6
	100MHz, QPSK			96.397	102.9
	100MHz, 16QAM			96.246	103.1
	100MHz, BPSK	1/0		0.5941	0.8540

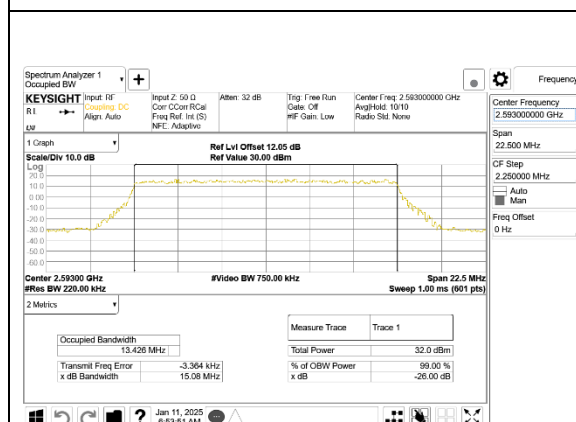
9.1.1. LTE BAND 41



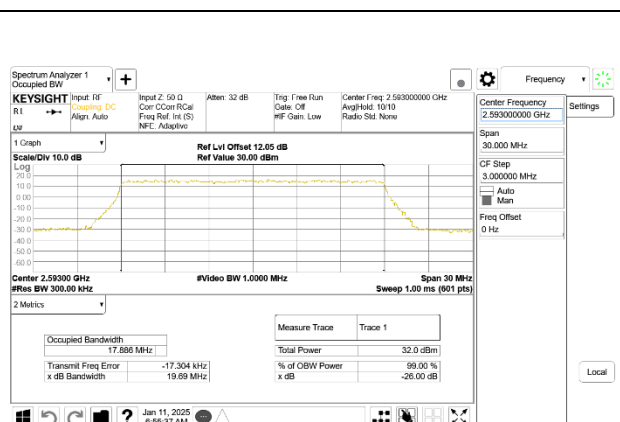
LTE B41 5MHz QPSK Middle Channel RB25-0



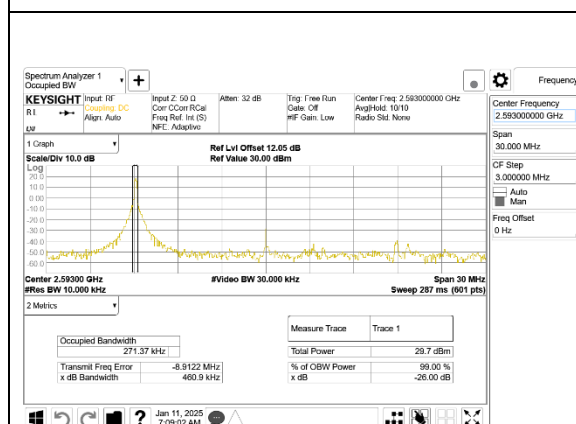
LTE B41 10MHz QPSK Middle Channel RB50-0



LTE B41 15MHz QPSK Middle Channel RB75-0



LTE B41 20MHz QPSK Middle Channel RB100-0

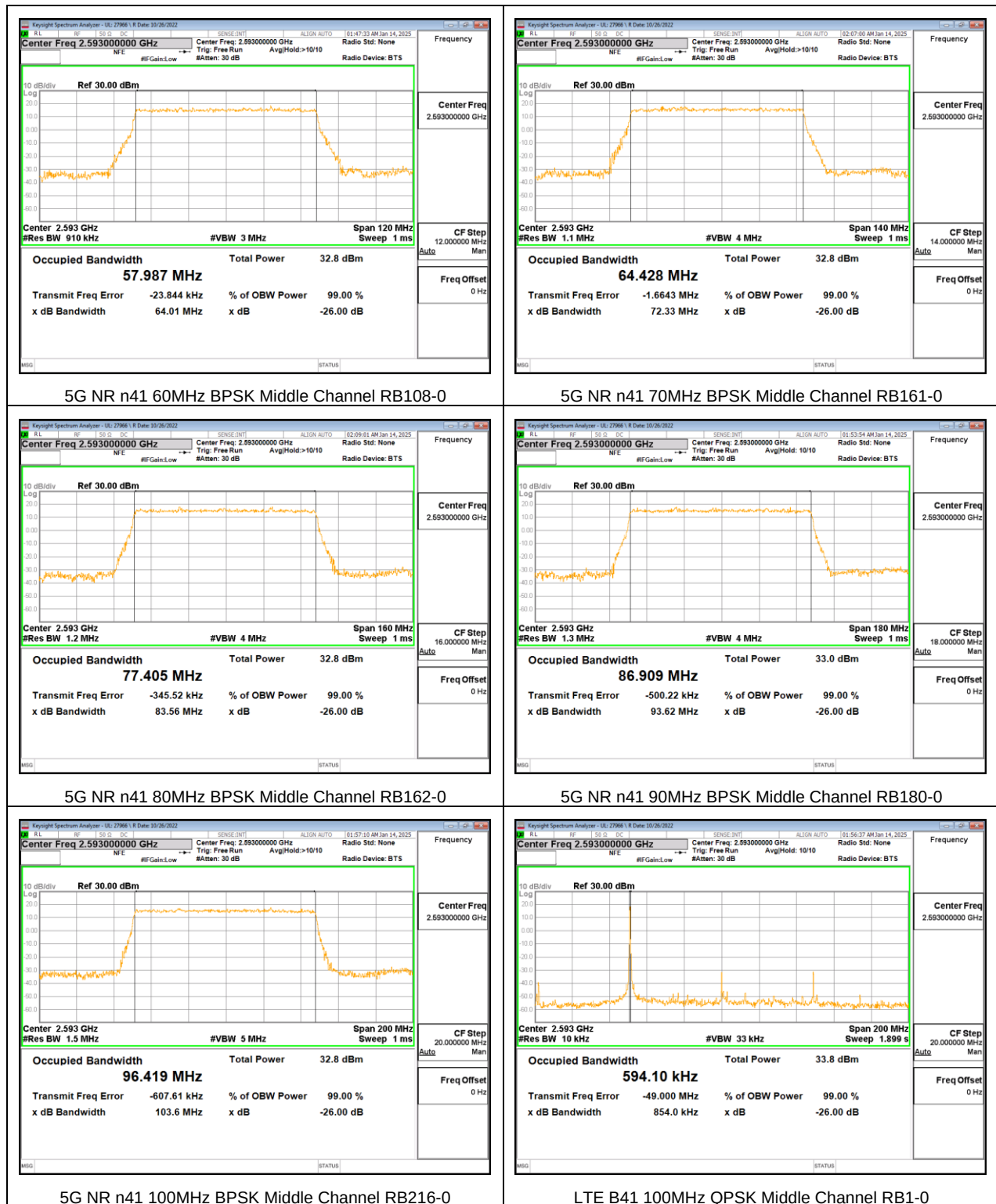


LTE B41 20MHz QPSK Middle Channel RB1-0

Intentionally Blank

9.1.2. 5G NR n41





9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph

(m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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:

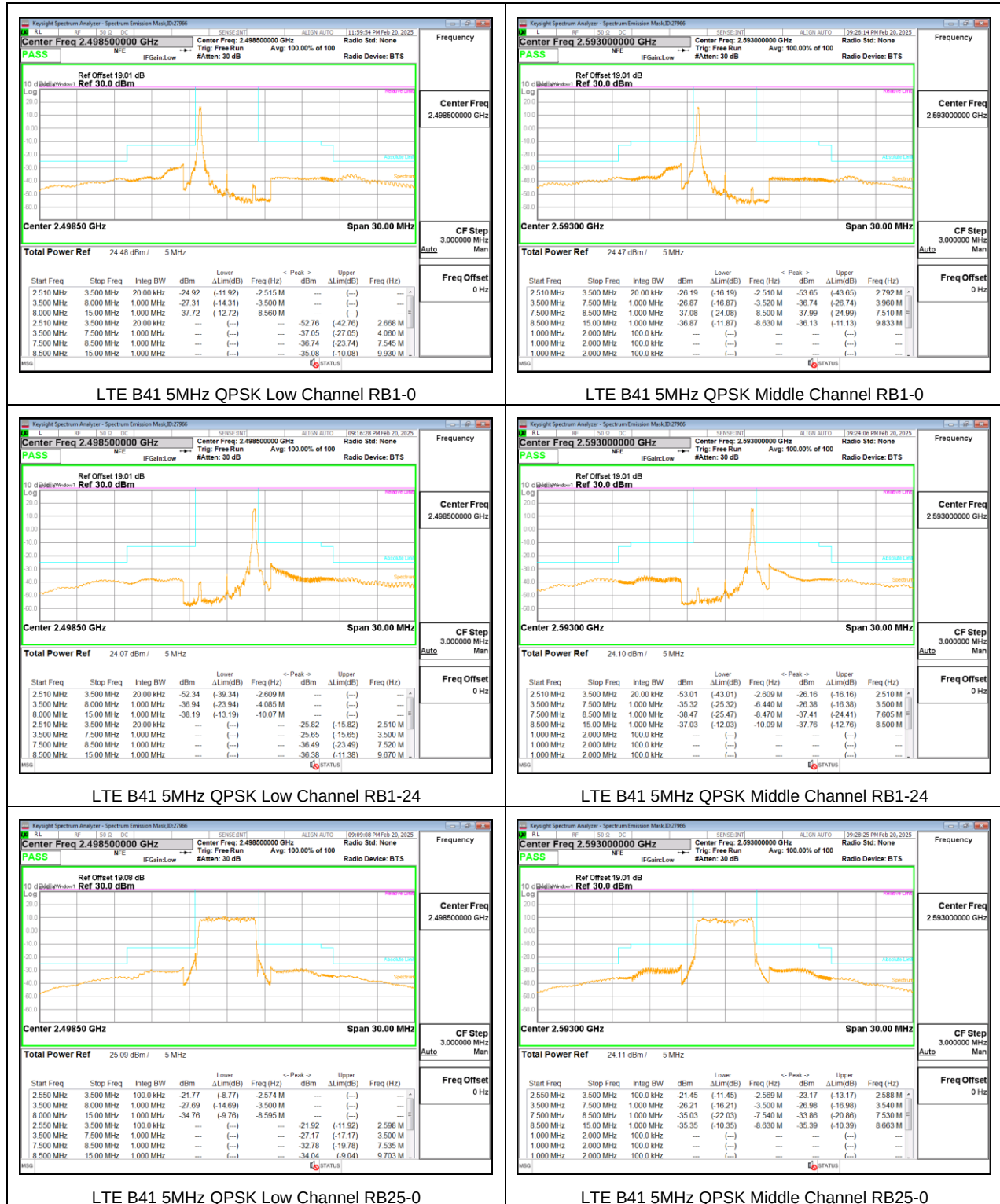
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -X dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

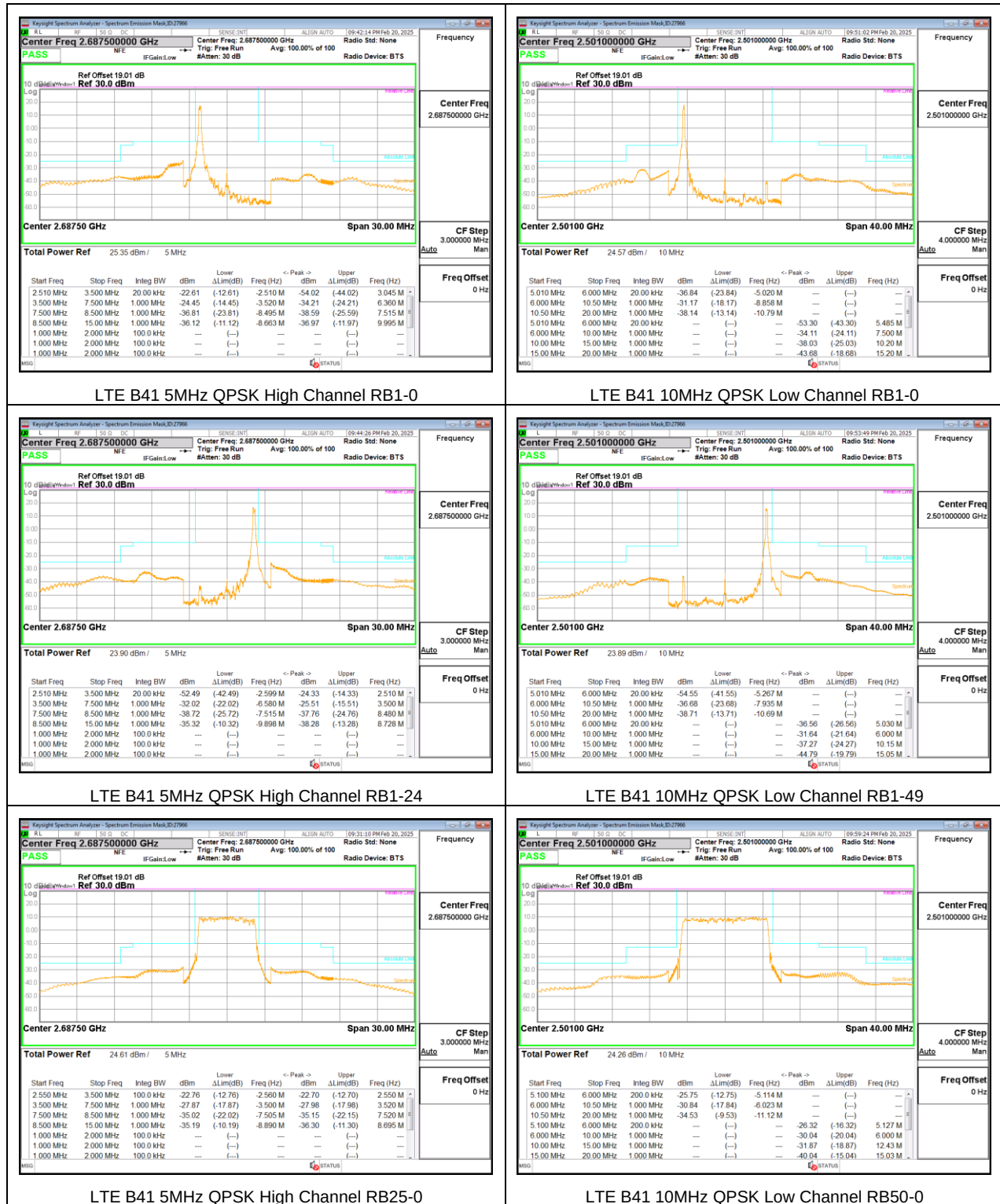
TEST PROCEDURE FOR FCC PART 27

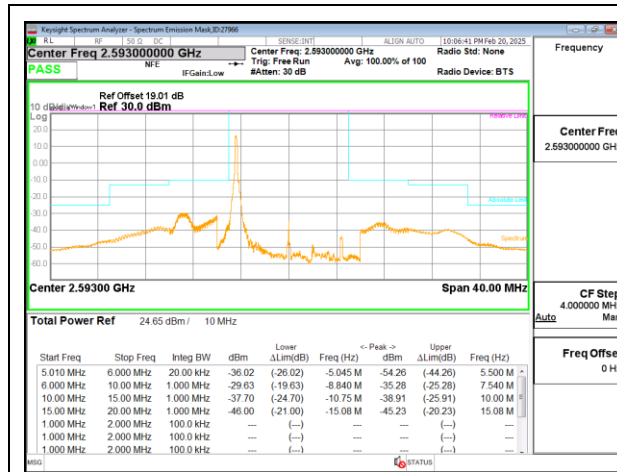
(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RESULTS

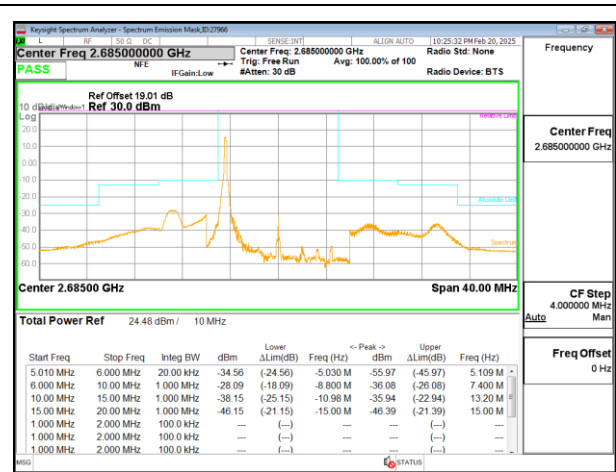
9.2.1. LTE BAND 41



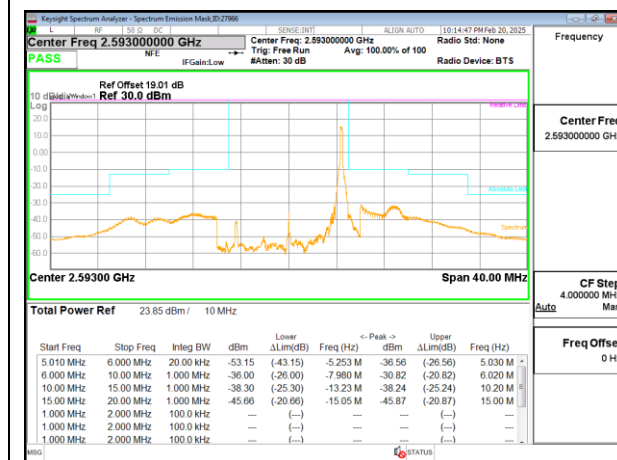




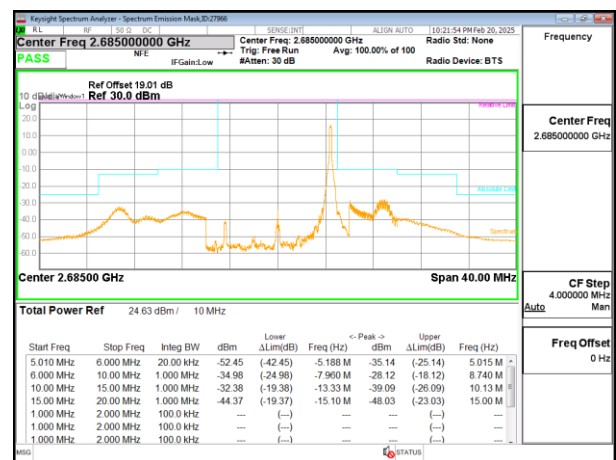
LTE B41 10MHz QPSK Middle Channel RB1-0



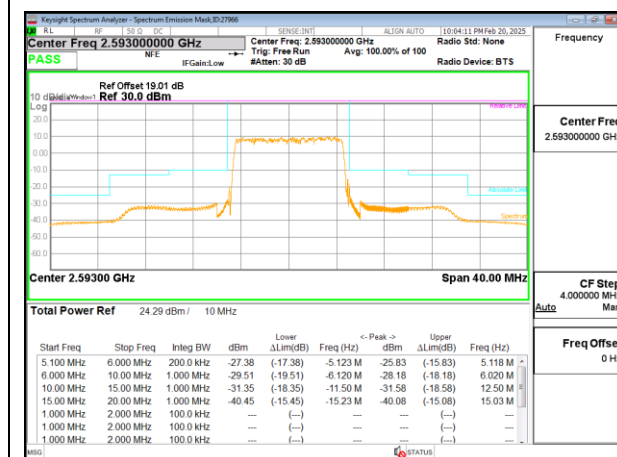
LTE B41 10MHz QPSK High Channel RB1-0



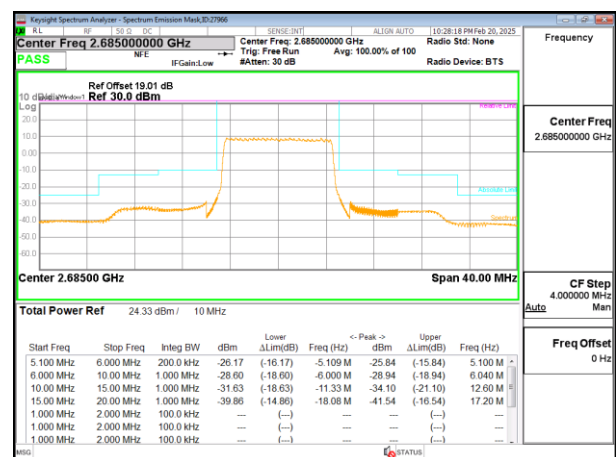
LTE B41 10MHz QPSK Middle Channel RB1-49



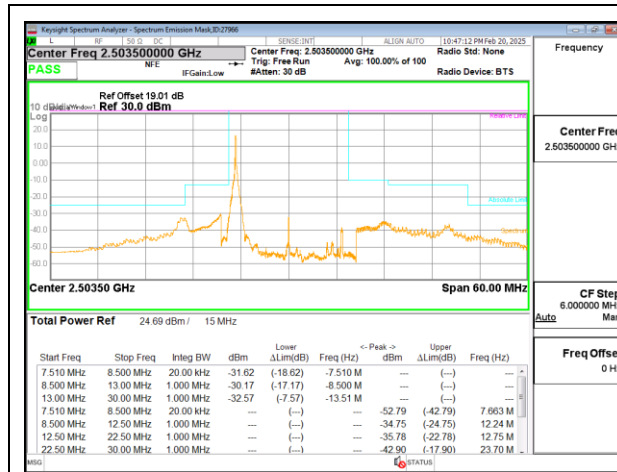
LTE B41 10MHz QPSK High Channel RB1-49



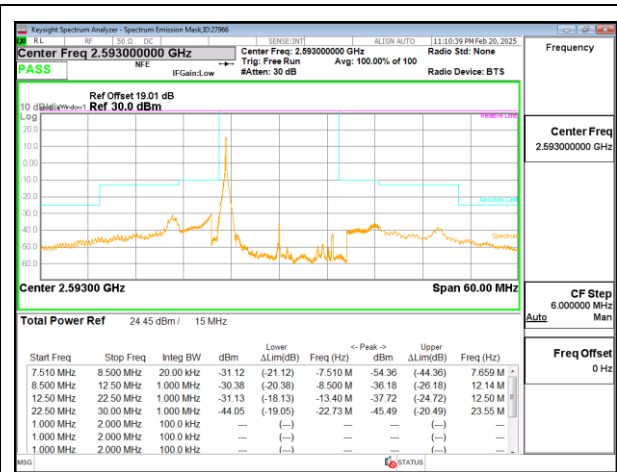
LTE B41 10MHz QPSK Middle Channel RB50-0



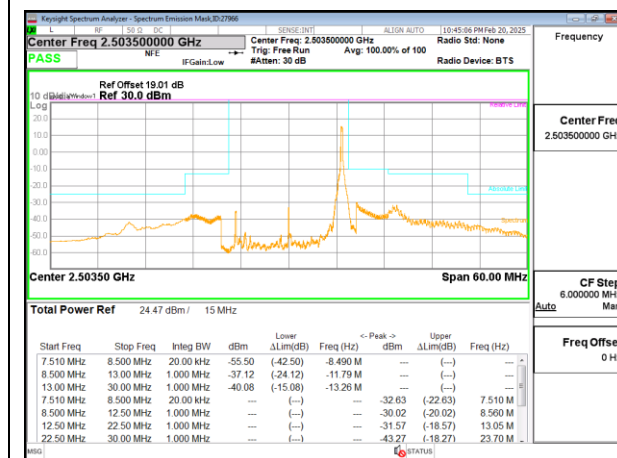
LTE B41 10MHz QPSK High Channel RB50-0



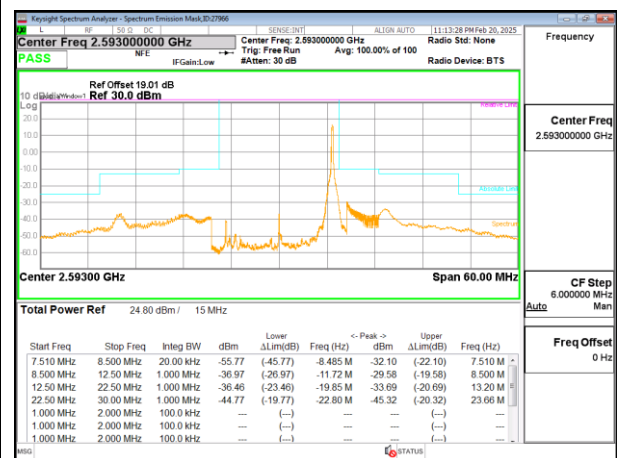
LTE B41 15MHz QPSK Low Channel RB1-0



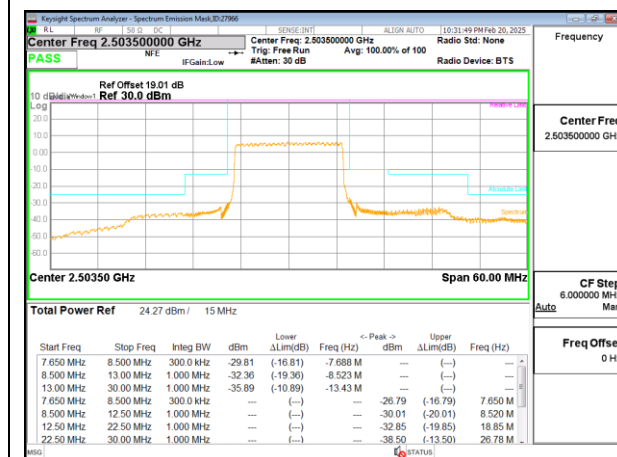
LTE B41 15MHz QPSK Middle Channel RB1-0



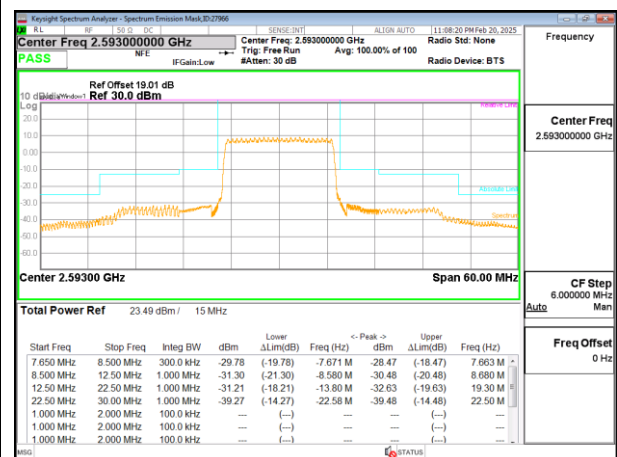
LTE B41 15MHz QPSK Low Channel RB1-74



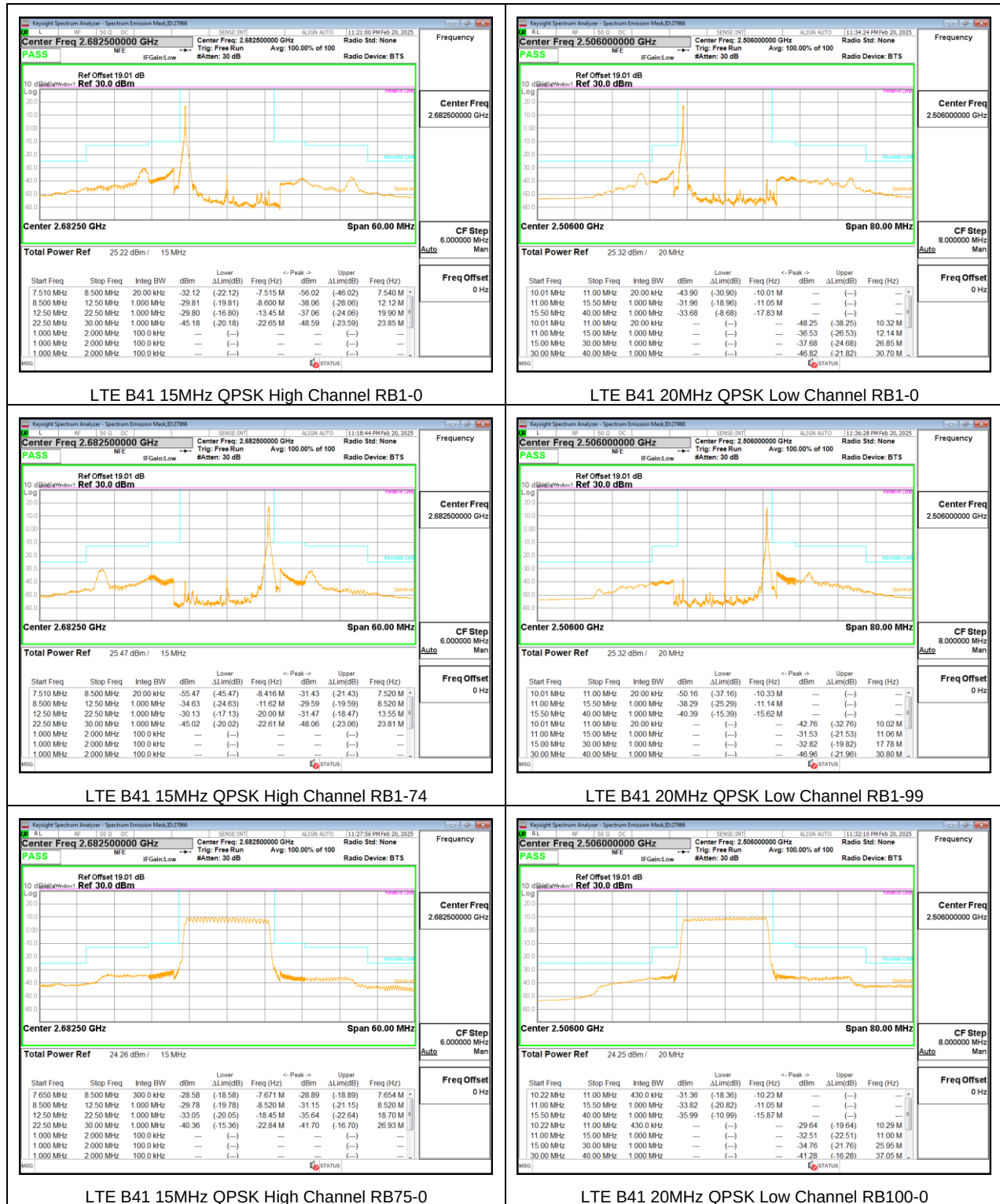
LTE B41 15MHz QPSK Middle Channel RB1-74

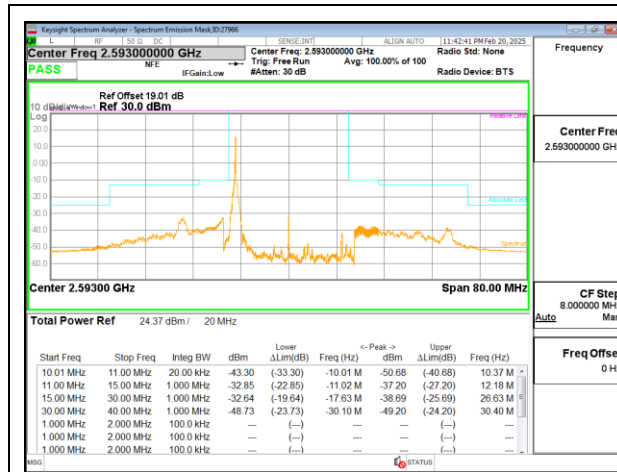


LTE B41 15MHz QPSK Low Channel RB75-0

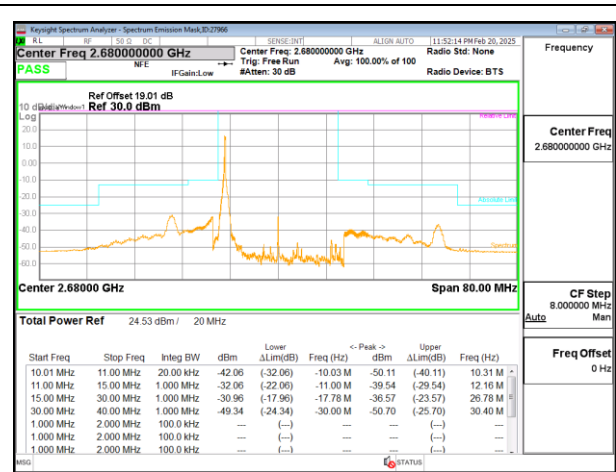


LTE B41 15MHz QPSK Middle Channel RB75-0

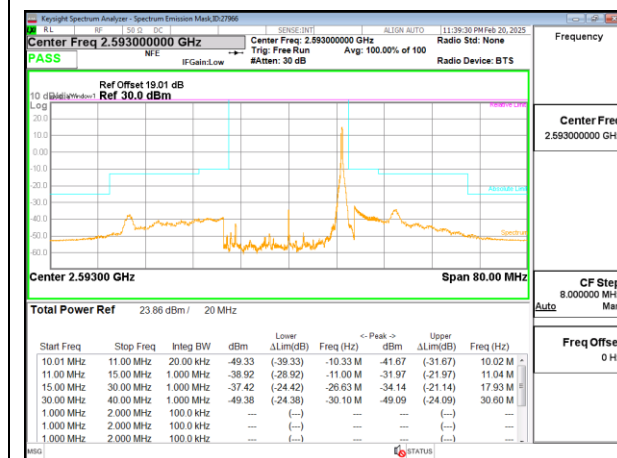




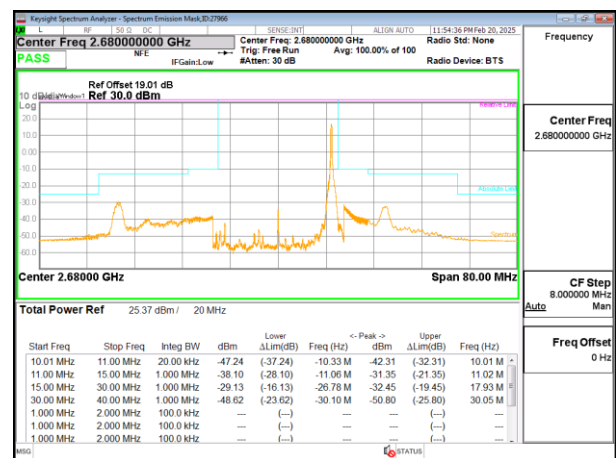
LTE B41 20MHz QPSK Middle Channel RB1-0



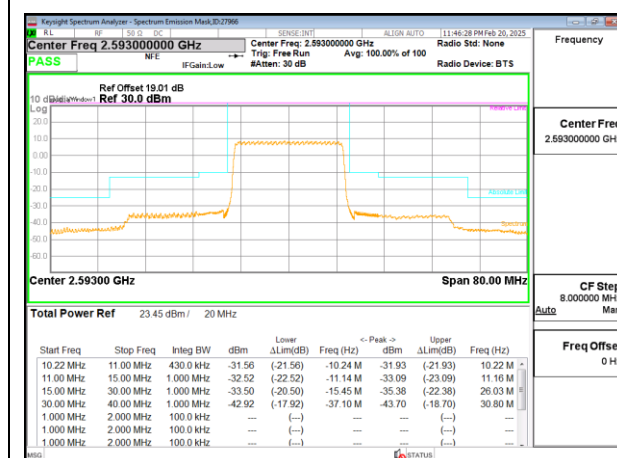
LTE B41 20MHz QPSK High Channel RB1-0



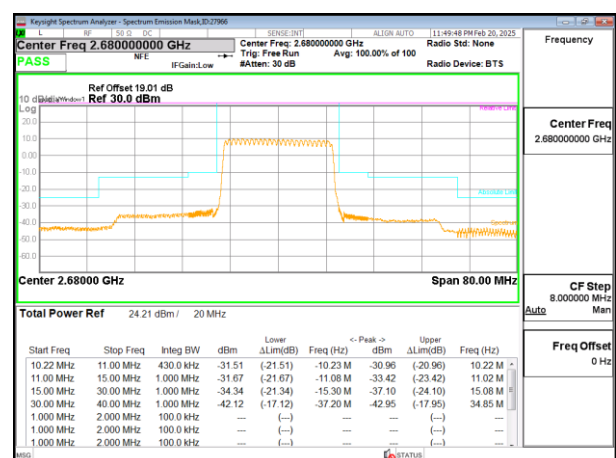
LTE B41 20MHz QPSK Middle Channel RB1-99



LTE B41 20MHz QPSK High Channel RB1-99



LTE B41 20MHz QPSK Middle Channel RB100-0



LTE B41 20MHz QPSK High Channel RB100-0

9.2.2. 5G NR n41

