

TEST REPORT

Report Number: 15982168-E25V2

Applicant : APPLE, INC
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3716 (Parent)
A3717 (Variant)

Brand : APPLE

FCC ID : BCG-E9195A (Parent)
BCG-E9196A (Variant)

IC : 579C-E9195A (Parent)
579C-E9196A (Variant)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 2, PART 25
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-170 ISSUE 4

Date Of Issue:
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Revision History

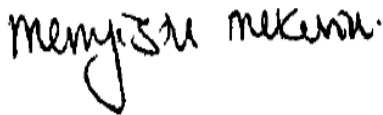
Rev.	Issue Date	Revisions	Revised By
V1	2026-07-23	Initial Review	--
V2	2026-08-13	Addressed TCB Feedback Cover, Section 1, and Section 6.1	Andrew Le

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3716 (Parent) A3717 (Variant)	
Brand	APPLE	
FCC ID	BCG-E9195A (Parent) BCG-E9196A (Variant)	
IC	579C-E9195A (Parent) 579C-E9196A (Variant)	
EUT Description	SMARTPHONE	
Serial Number	RADIATED: H9PQGVK9C7, D7JLJ0FVL2, H9PQGVK9C7 CONDUCTED: 00001, 00003_7, 00004_7 00005_7, 00006_7	
Sample Receipt Date	2026-04-23	
Date Tested	2026-04-24 to 2026-07-13	
Applicable Standards	FCC 47 CFR PART 2, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-170 ISSUE 4	
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:
		
Mengistu Mekuria Staff Engineer UL Solutions Inc.	Andrew Le Laboratory Supervisor UL Solutions Inc.	Chris He Laboratory Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

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

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

1. Antenna gain and type (see section 6.4.)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
RF Conducted Output Power	25.149 (c)(4)(iii)	RSS-170§ 5.4; SMSE-009-20 Annex A 9.d	Complies	
Equivalent Isotropic Radiated	25.149 (c)(4)(iii)	RSS-170§ 5.4; SMSE-009-20 Annex A 9.e	Complies	
Maximum Power Spectral Density	25.149 (c)(4)(iv)	SMSE-009-20 Annex A 9.f	Complies	
Duty Cycle	Reporting purpose	Reporting purpose	Complies	
Occupied Bandwidth	2.1049	RSS-Gen	Complies	
6 dB Bandwidth	25.149 (c)(4)(ii)	SMSE-009-20 Annex A 9.c	Complies	
Bandedge and EIRP Density	2.1051, 25.149 (c)(4)(v), (vi)	RSS-170§ 5.7.3; SMSE-009-20 Annex A 9.g and h	Complies	
Out of Band Emissions	2.1051, 25.149 (c)(4)(v), (vi)	RSS-170§ 5.7.3; SMSE-009-20 Annex A 9.g, h, and i	Complies	
Frequency Stability	25.202 (d)	RSS-170§ 5.3	Complies	
Field Strength of Spurious Radiation	2.1053, 25.149 (c)(4)(v), (vi)	RSS-170§ 5.7.3; SMSE-009-20 Annex A 9.g, h, and i	Complies	

3. TEST METHODOLOGY

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

FCC published lists of [measurement procedures](#) for compliance testing.

ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 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
- ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-170 ISSUE 4, SMSE-009-20

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 Apple iPhone is a smartphone with GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth (BT), Global Positioning System (GPS), Near-Field Communication (NFC) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

This test report for A3716 (FCC ID: BCG-E9195A, IC: 579C-E9195A) may be used to support certification for variant models A3717 (FCC ID: BCG-E9196A; IC: 579C-E9196A) in conjunction with spot check test report 15982169-E1 (FCC)/15982169-E2 (IC) using the procedures for data referencing as permitted by the FCC and ISED Canada.

6.2. MAXIMUM OUTPUT POWER

LIMITS

FCC: §25.149 (c)(4) (iii): The maximum transmit power is no more than 1 W (30dBm) with a peak EIRP of no more than 6 dBW (36dBm or 3.98W).

ISED: SMSE-009-20 Annex A 9.d: Transmitter output power shall not exceed 0 dBW (30dBm).

ISED: SMSE-009-20 Annex A 9.e: The maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 6 dBW (36dBm or 3.98W).

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

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

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

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

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

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

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

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

LTE BAND 53

FCC Part 25/ RSS-170									
Peak EIRP Limit (W)		3.98							
Conducted Average Limit (W)		1.00							
Antenna Gain (dBi)		-1.60							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
1.4	QPSK	2484.2	2494.3	20.70	19.10	0.081	1.099	1099	1M10G7W
	16QAM			20.67	19.07	0.081	1.106	1106	1M11D7W
3.0	QPSK	2485.0	2493.5	20.70	19.10	0.081	2.702	2702	2M70G7W
	16QAM			20.66	19.06	0.081	2.709	2709	2M71D7W
5.0	QPSK	2486.0	2492.5	20.70	19.10	0.081	4.503	4503	4M50G7W
	16QAM			20.67	19.07	0.081	4.503	4503	4M50D7W
10.0	QPSK	2488.5	2490.0	20.70	19.10	0.081	9.007	9007	9M01G7W
	16QAM			20.67	19.07	0.081	8.975	8975	8M98D7W

5G NR n53

FCC Part 25 / RSS-170									
Peak EIRP Limit (W)		3.98							
Conducted Average Limit (W)		1.00							
Antenna Gain (dBi)		-1.60							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
10.0	BPSK	2488.5	2490.0	20.70	19.10	0.081	8.671	8671	8M67G7W
	QPSK			20.68	19.08	0.081	8.597	8597	8M60G7W
	16QAM			20.70	19.10	0.081	8.625	8625	8M63D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 24A349

6.4. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The antenna(s) gain/ allowed output power as provided by the manufacturer' are as follows:

Bands	Frequency Range (MHz)	Antenna	Gain (dBi)	Max Allowed Conducted Output Power (dBm)	ERP/EIRP (dBm)
LTE BAND 53 / 5G NR n53	2483.5 - 2495	ANT14	-1.60	20.70	19.10
		ANT1	-1.70	20.70	19.00
		ANT3			
		ANT4			

6.5. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- LTE Band 53, 5G NR n53

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. All modulations had the same target power for the worst-case antenna, so QPSK and BPSK were used to represent the worst mode for LTE bands and 5G NR bands respectively and were set for all conducted and radiated tests. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on Section 9 were measured while QPSK/BPSK was set at or above target power for all bands. Conducted tests were performed on the worst-case antenna because it has the highest conducted power. The worst-case antenna is shown in the table below.

LTE and 5G NR Bands	Worst case Antenna Port
LTE Band 53 and 5G NR n53	Ant 14

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

Frequency Range	ANT14	ANT1
663 – 849 MHz	Z	Y

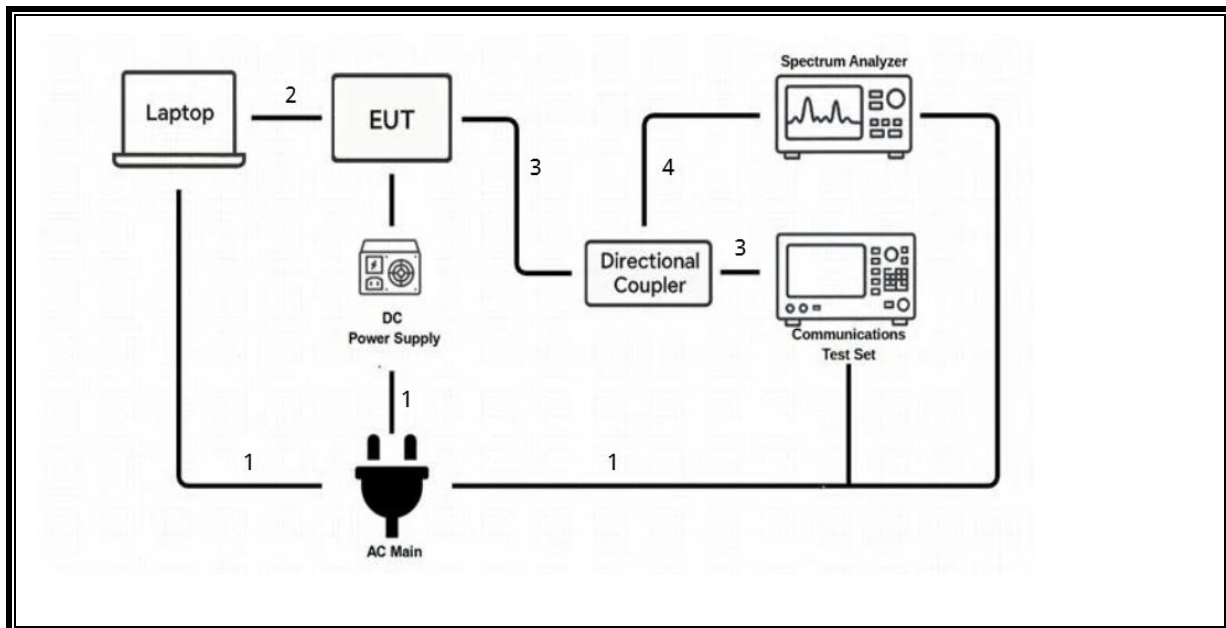
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz.

For simultaneous transmission of multiple channels in the WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

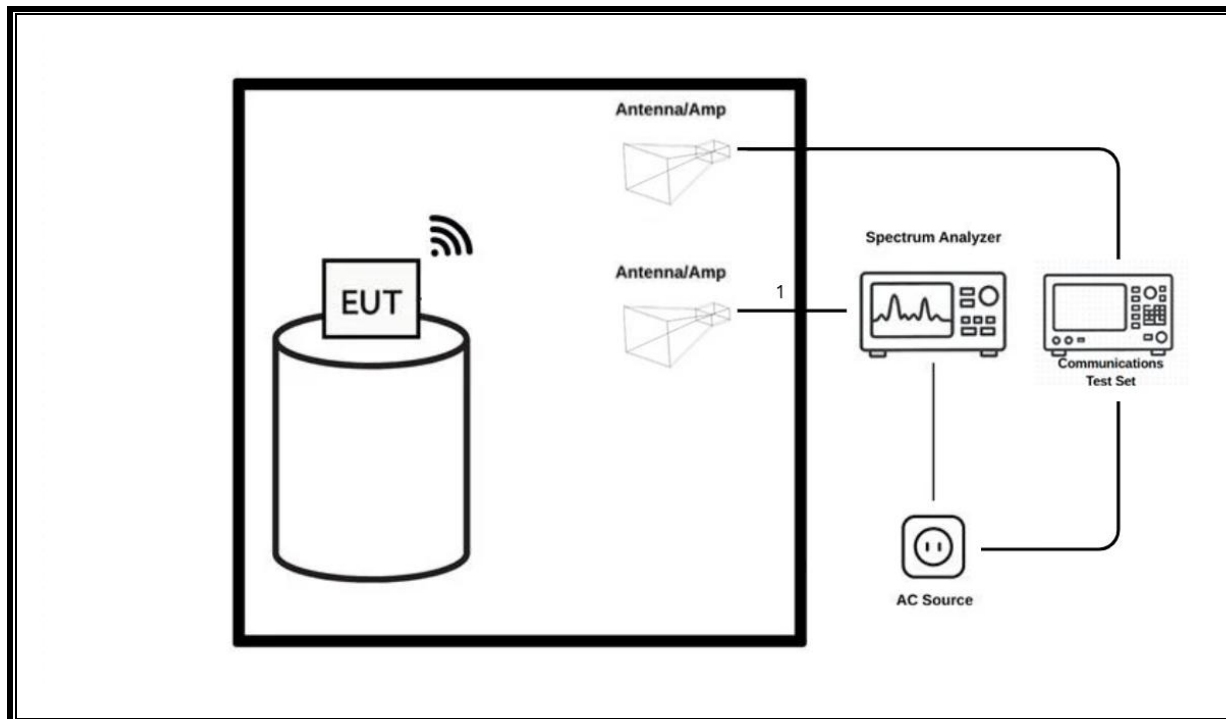
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number	FCC ID/ DoC	
Laptop		Apple	MacBook Pro	F5JJ42D7R9	BCGA1708	
Laptop		Apple	MacBook Pro	JWV2QWM0DT	BCGA2338	
Laptop		Apple	MacBook Pro	FG6Q9RW54Y	BCGA2338	
Laptop		Apple	MacBook Pro	XC2KF6F2D7	BCGA2338	
Laptop		Apple	MacBook Pro	YWCT4V933R	BCGA2338	
Laptop		Apple	MacBook Pro	HRP127004	BCGA2338	
AC/DC adapter		Apple	A1718	C4H64450HH3GN8RA6	--	
AC/DC adapter		Apple	A2130	F16H69002MD000000P	--	
AC/DC adapter		Apple	A1555 P	XQ76XLCJ2D	--	
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	3	US 115V	Un-shielded	2.0	N/A
2	USB	1	DC	Shielded	1.0	N/A
3	RF In/Out	2	SMA	Shielded	0.9	N/A
4	RF In/Out	1	Barrel	Shielded	N/A	N/A
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	SMA	Shielded	5.0	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
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	222796	2027-03-03
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169933	2027-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80402	2027-07-31
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	231874	2027-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	170063	2027-02-27
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	231875	2026-12-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	223084	2026-12-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	174374	2027-06-30
*Amplifier 9 kHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2026-09-30
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2026-09-30
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199659	2028-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169937	2027-05-31
Antenna, Horn 1-18GHz	ETS Lindgren	84797	80402	2026-10-31
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	225079	2027-05-31
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	230878	2028-05-31
Antenna, Horn 1-18GHz	ETS Lindgren	84797	200897	2027-03-18
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2027-05-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	272589	2026-10-03
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231739	2027-01-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	276680	2027-01-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	272595	2026-11-30
Wideband Communication Call Box	Rohde & Schwarz	CMW500	230298	2027-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	230295	2027-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262742	2027-02-11
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262741	2027-02-11
Conducted Switch Box	N/A	CSB	245778	2026-10-31
Conducted Switch Box	N/A	CSB	262354	2026-10-31
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2026-11-24
*Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Directional Coupler	KRYTAR	152610	254457	2026-09-04
Directional Coupler	KRYTAR	101040010K	254458	2026-09-04
*Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2026-05-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	Antenna Port	Ver.2022.8.16	
Conducted Software	UL	Station Tool	Ver. 12.2, 2.0, 5.0	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

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. RF OUTPUT POWER MEASUREMENTS

LIMITS

FCC: §25.149 (c)(4) (iii): The maximum transmit power is no more than 1 W (30dBm) with a peak EIRP of no more than 6 dBW (36dBm or 3.98W).

ISED: SMSE-009-20 Annex A 9.d: Transmitter output power shall not exceed 0 dBW (30dBm).

ISED: SMSE-009-20 Annex A 9.e: The maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 6 dBW (36dBm or 3.98W).

AVERAGE OUTPUT POWER TEST PROCEDURE

The transmitter output is connected to a power meter.

The power output was measured on the EUT antenna port using SMA cable with directional coupler connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

PEAK OUTPUT POWER TEST PROCEDURE

The transmitter output is connected to a power meter.

The power output was measured on the EUT antenna port using SMA cable with directional coupler connected to a power meter via wideband peak power sensor. Peak output power was read directly from power meter.

RESULTS

The EUT has different power levels for head use configuration and body use configuration. All measurements are made with the device operating at the highest average conducted output powers.

8.1. LTE BAND 53

Test Engineer ID:	105903	Test Date:	2026-06-28
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OUTPUT POWER FOR LTE BAND 53 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 14			Ant 1		
				Conducted Average (dBm)			Conducted Average (dBm)		
				60147	60195	60248	60147	60195	60248
1.4	QPSK	1	0	20.65	20.65	20.64	20.66	20.61	20.66
			2	20.61	20.63	20.63	20.64	20.65	20.68
			5	20.60	20.65	20.66	20.64	20.63	20.68
		2	0	20.63	20.63	20.66	20.62	20.64	20.70
			4	20.62	20.64	20.62	20.65	20.63	20.61
			0	20.60	20.70	20.61	20.67	20.61	20.68
		3	1	20.61	20.66	20.61	20.64	20.64	20.65
			2	20.67	20.63	20.62	20.63	20.62	20.61
			0	20.50	20.67	20.62	20.55	20.63	20.49
	16QAM	1	0	20.58	20.60	20.53	20.55	20.44	20.61
			2	20.67	20.62	20.49	20.46	20.41	20.55
			5	20.43	20.52	20.45	20.40	20.55	20.41
		2	0	20.57	20.62	20.62	20.51	20.50	20.54
			4	20.59	20.51	20.63	20.47	20.46	20.46
			0	20.64	20.52	20.58	20.56	20.49	20.49
		3	1	20.59	20.66	20.58	20.47	20.66	20.50
			2	20.60	20.49	20.52	20.61	20.46	20.53
			0	20.41	20.61	20.52	20.55	20.60	20.49
	64QAM	1	0	20.62	20.65	20.42	20.62	20.47	20.53
			2	20.63	20.63	20.47	20.66	20.53	20.57
			5	20.53	20.45	20.49	20.65	20.67	20.57
		2	0	20.47	20.56	20.57	20.60	20.56	20.65
			4	20.41	20.63	20.46	20.61	20.64	20.62
			0	20.60	20.55	20.48	20.66	20.42	20.49
		3	1	20.56	20.41	20.65	20.57	20.48	20.44
			2	20.48	20.44	20.61	20.63	20.50	20.64
			0	20.66	20.51	20.52	20.38	20.29	20.32
	256QAM	1	0	20.27	20.29	20.24	17.79	17.75	17.79
			2	20.27	20.29	20.28	17.76	17.76	17.72
			5	20.27	20.29	20.27	17.73	17.75	17.73
		2	0	20.67	20.62	20.48	18.21	18.26	18.25
			4	20.44	20.07	20.45	18.21	18.29	18.28
			0	20.50	20.42	20.66	18.30	18.29	18.28
		3	1	20.64	20.61	20.61	18.29	18.26	18.26
			2	20.66	20.56	20.50	18.21	18.24	18.27
			0	20.44	20.41	20.57	18.30	18.30	18.27

OUTPUT POWER FOR LTE BAND 53 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 14			Ant 1		
				Conducted Average (dBm)			Conducted Average (dBm)		
				60155	60195	60240	60155	60195	60240
3.0	QPSK	1	0	20.55	20.64	20.64	20.61	20.69	20.67
			7	20.61	20.70	20.63	20.61	20.66	20.68
			14	20.69	20.65	20.68	20.66	20.62	20.60
		2	0	20.66	20.66	20.62	20.66	20.69	20.65
			13	20.63	20.67	20.60	20.61	20.70	20.69
			0	20.69	20.61	20.64	20.69	20.61	20.69
		8	4	20.63	20.67	20.70	20.68	20.65	20.67
			7	20.65	20.66	20.66	20.60	20.62	20.66
			0	20.48	20.51	20.58	20.62	20.50	20.50
	16QAM	1	0	20.58	20.65	20.59	20.49	20.41	20.47
			7	20.45	20.62	20.49	20.65	20.42	20.52
			14	20.63	20.52	20.42	20.43	20.64	20.57
		2	0	20.51	20.52	20.65	20.51	20.58	20.45
			13	20.66	20.63	20.47	20.53	20.60	20.52
			0	20.44	20.54	20.65	20.58	20.57	20.40
		8	4	20.44	20.53	20.54	20.49	20.57	20.45
			7	20.64	20.65	20.53	20.51	20.63	20.60
			0	20.45	20.51	20.55	20.61	20.53	20.51
	64QAM	1	0	20.60	20.53	20.59	20.53	20.49	20.66
			7	20.46	20.51	20.62	20.57	20.66	20.41
			14	20.44	20.43	20.44	20.64	20.50	20.43
		2	0	20.66	20.62	20.46	20.65	20.55	20.61
			13	20.52	20.61	20.44	20.62	20.42	20.59
			0	20.56	20.46	20.52	20.53	20.40	20.59
		8	4	20.48	20.49	20.51	20.41	20.52	20.49
			7	20.63	20.42	20.61	20.50	20.62	20.45
			0	20.57	20.67	20.49	20.47	20.28	20.22
	256QAM	1	0	20.23	20.26	20.22	17.75	17.80	17.78
			7	20.29	20.24	20.27	17.80	17.72	17.79
			14	20.23	20.29	20.30	17.73	17.74	17.79
		2	0	20.62	20.54	20.63	18.26	18.29	18.27
			13	20.46	20.51	20.54	18.23	18.22	18.22
			0	20.48	20.58	20.54	18.30	18.24	18.24
		8	4	20.64	20.59	20.42	18.23	18.22	18.26
			7	20.63	20.52	20.58	18.29	18.22	18.23
			0	20.59	20.50	20.62	18.27	18.22	18.27

OUTPUT POWER FOR LTE BAND 53 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 14			Ant 1		
				Conducted Average (dBm)			Conducted Average (dBm)		
				60165 2486.0 MHz	60195 2489.0 MHz	60230 2492.5 MHz	60165 2486.0 MHz	60195 2489.0 MHz	60230 2492.5 MHz
5.0	QPSK	1	0	20.51	20.62	20.61	20.60	20.62	20.69
		1	12	20.65	20.64	20.69	20.70	20.61	20.62
		1	24	20.61	20.69	20.61	20.67	20.66	20.66
		2	0	20.63	20.65	20.63	20.61	20.63	20.69
		2	23	20.66	20.66	20.70	20.63	20.62	20.70
		12	0	20.65	20.65	20.62	20.69	20.62	20.67
		12	6	20.67	20.69	20.63	20.66	20.68	20.62
		12	11	20.62	20.68	20.63	20.67	20.69	20.61
		25	0	20.41	20.46	20.51	20.62	20.53	20.44
		1	0	20.57	20.48	20.45	20.59	20.63	20.49
		1	12	20.56	20.62	20.67	20.62	20.52	20.62
		1	24	20.40	20.42	20.43	20.57	20.45	20.45
	16QAM	2	0	20.49	20.65	20.41	20.47	20.45	20.44
		2	23	20.53	20.43	20.57	20.65	20.59	20.66
		12	0	20.56	20.53	20.47	20.65	20.44	20.41
		12	6	20.52	20.41	20.43	20.59	20.61	20.57
		12	11	20.50	20.40	20.60	20.52	20.43	20.41
		25	0	20.60	20.45	20.58	20.66	20.62	20.55
		1	0	20.43	20.61	20.66	20.63	20.49	20.52
		1	12	20.61	20.55	20.65	20.53	20.43	20.58
		1	24	20.63	20.49	20.65	20.47	20.48	20.48
		2	0	20.53	20.54	20.47	20.58	20.53	20.66
		2	23	20.50	20.41	20.42	20.46	20.50	20.58
		12	0	20.49	20.44	20.64	19.99	20.20	20.01
	64QAM	12	6	20.55	20.40	20.63	20.10	20.16	20.20
		12	11	20.66	20.56	20.49	20.02	19.98	20.16
		25	0	20.58	20.47	20.44	19.92	19.98	20.01
		1	0	20.15	20.19	20.18	17.60	17.52	17.51
		1	12	20.14	20.13	20.16	17.60	17.54	17.54
		1	24	20.16	20.12	20.12	17.57	17.59	17.53
		2	0	20.47	20.66	20.59	18.06	18.08	18.07
		2	23	20.62	20.46	20.43	18.09	18.03	18.10
		12	0	20.51	20.52	20.60	18.07	18.06	18.02
		12	6	20.58	20.42	20.42	18.08	18.10	18.05
		12	11	20.49	20.46	20.42	18.10	18.03	18.09
		25	0	20.58	20.45	20.64	18.10	18.04	18.09
	256QAM	1	0	20.15	20.19	20.18	17.60	17.52	17.51
		1	12	20.14	20.13	20.16	17.60	17.54	17.54
		1	24	20.16	20.12	20.12	17.57	17.59	17.53
		2	0	20.47	20.66	20.59	18.06	18.08	18.07
		2	23	20.62	20.46	20.43	18.09	18.03	18.10
		12	0	20.51	20.52	20.60	18.07	18.06	18.02
		12	6	20.58	20.42	20.42	18.08	18.10	18.05
		12	11	20.49	20.46	20.42	18.10	18.03	18.09
		25	0	20.58	20.45	20.64	18.10	18.04	18.09

OUTPUT POWER FOR LTE BAND 53 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 14			Ant 1		
				Conducted Average (dBm)			Conducted Average (dBm)		
				60190 2488.5 MHz	60195 2489.0 MHz	60205 2490.0 MHz	60190 2488.5 MHz	60195 2489.0 MHz	60205 2490.0 MHz
10.0	QPSK	1	0	20.69	20.65	20.61	20.63	20.62	20.69
		1	24	20.64	20.66	20.62	20.61	20.63	20.61
		1	49	20.70	20.68	20.64	20.68	20.63	20.66
		2	0	20.65	20.70	20.68	20.62	20.67	20.65
		2	48	20.61	20.67	20.61	20.70	20.61	20.69
		25	0	20.67	20.66	20.67	20.69	20.62	20.67
		25	12	20.70	20.67	20.65	20.64	20.68	20.62
		25	24	20.62	20.62	20.64	20.63	20.69	20.69
		50	0	20.56	20.63	20.63	20.41	20.44	20.63
		1	0	20.59	20.55	20.54	20.44	20.65	20.55
		1	24	20.54	20.52	20.53	20.62	20.54	20.43
		1	49	20.61	20.60	20.41	20.59	20.63	20.61
		2	0	20.64	20.52	20.61	20.61	20.52	20.66
	16QAM	2	48	20.62	20.51	20.59	20.56	20.64	20.50
		25	0	20.42	20.67	20.51	20.54	20.59	20.59
		25	12	20.58	20.65	20.53	20.44	20.62	20.64
		25	24	20.49	20.54	20.46	20.47	20.45	20.45
		50	0	20.62	20.66	20.43	20.58	20.42	20.45
		1	0	20.45	20.49	20.56	20.58	20.47	20.56
		1	24	20.61	20.45	20.51	20.50	20.67	20.49
		1	49	20.49	20.42	20.43	20.55	20.55	20.58
		2	0	20.63	20.49	20.64	20.62	20.47	20.42
		2	48	20.58	20.47	20.61	20.55	20.43	20.54
		25	0	20.43	20.49	20.60	20.59	20.45	20.51
		25	12	20.55	20.60	20.60	20.56	20.61	20.53
		25	24	20.56	20.54	20.46	20.45	20.55	20.57
		50	0	20.65	20.40	20.55	20.33	20.23	20.34
	256QAM	1	0	20.22	20.23	20.22	17.80	17.79	17.78
		1	24	20.25	20.23	20.22	17.80	17.77	17.73
		1	49	20.26	20.27	20.28	17.75	17.71	17.76
		2	0	20.46	20.65	20.60	18.27	18.21	18.28
		2	48	20.60	20.52	20.42	18.27	18.25	18.27
		25	0	20.44	20.55	20.56	18.30	18.28	18.27
		25	12	20.61	20.66	20.62	18.30	18.27	18.30
		25	24	20.57	20.67	20.61	18.26	18.26	18.22
		50	0	20.59	20.59	20.54	18.25	18.28	18.29

8.2. 5G NR n53

Test Engineer ID:	117296	Test Date:	2026-06-27
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OUTPUT POWER FOR 5G NR n53 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 14			Ant 1		
				Conducted Average (dBm)			Conducted Average (dBm)		
				497700	497800	498000	497700	497800	498000
10.0	BPSK	1	0	2488.5 MHz	2489.0 MHz	2490.0 MHz	2488.5 MHz	2489.0 MHz	2490.0 MHz
			0	20.68	20.59	20.67	20.67	20.65	20.59
			1	20.60	20.69	20.61	20.59	20.65	20.64
			22	20.62	20.69	20.69	20.62	20.67	20.68
			23	20.69	20.66	20.64	20.60	20.67	20.67
			6	20.59	20.64	20.69	20.70	20.63	20.64
		24	0	20.64	20.60	20.69	20.65	20.60	20.60
			0	20.64	20.63	20.65	20.65	20.66	20.60
			1	20.65	20.69	20.70	20.67	20.64	20.65
			22	20.66	20.70	20.68	20.63	20.61	20.60
			23	20.60	20.58	20.64	20.58	20.70	20.64
			6	20.59	20.63	20.67	20.63	20.64	20.58
	QPSK	1	0	20.63	20.68	20.64	20.60	20.67	20.60
			0	20.63	20.64	20.65	20.58	20.64	20.58
			1	20.67	20.61	20.67	20.59	20.70	20.61
			22	20.63	20.62	20.65	20.64	20.67	20.63
			23	20.63	20.65	20.59	20.70	20.60	20.63
			6	20.67	20.59	20.64	20.67	20.66	20.68
		24	0	20.61	20.63	20.58	20.68	20.65	20.64
			0	20.68	20.65	20.69	20.70	20.67	20.69
			1	20.64	20.59	20.67	20.58	20.65	20.59
			22	20.66	20.67	20.67	20.69	20.61	20.67
			23	20.69	20.69	20.67	20.60	20.59	20.64
			6	20.68	20.70	20.67	20.66	20.64	20.70
	16QAM	1	0	20.59	20.67	20.68	20.63	20.58	20.61
			0	20.60	20.61	20.58	19.73	19.52	19.58
			1	20.62	20.63	20.69	19.68	19.58	19.62
			22	20.64	20.61	20.61	19.64	19.67	19.72
			23	20.70	20.63	20.68	19.69	19.67	19.63
			6	20.67	20.58	20.67	20.13	20.11	20.24
		24	0	20.58	20.61	20.67	20.10	20.07	20.11
			0	20.58	20.61	20.67	20.10	20.07	20.11
			1	20.58	20.61	20.67	20.10	20.07	20.11
			22	20.58	20.61	20.67	20.10	20.07	20.11
			23	20.58	20.61	20.67	20.10	20.07	20.11
			6	20.58	20.61	20.67	20.10	20.07	20.11

9. CONDUCTED TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

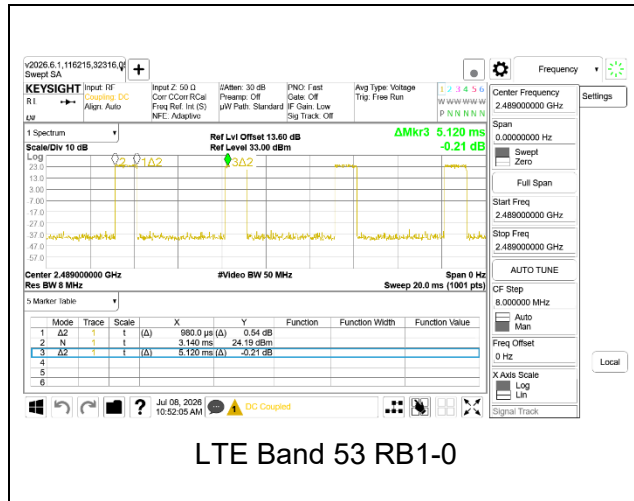
None; for reporting purposes only.

PROCEDURE

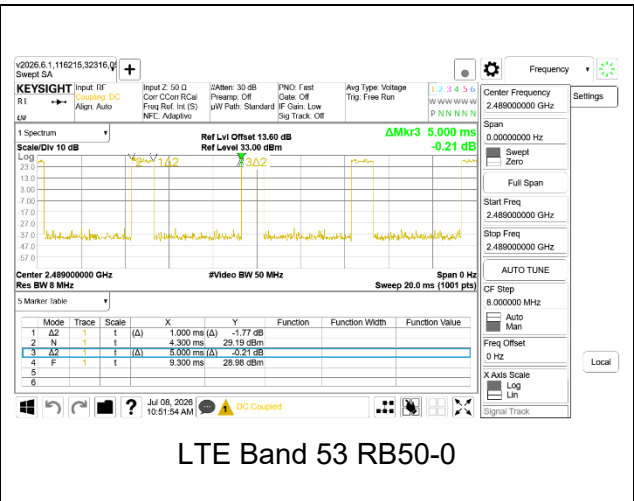
Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

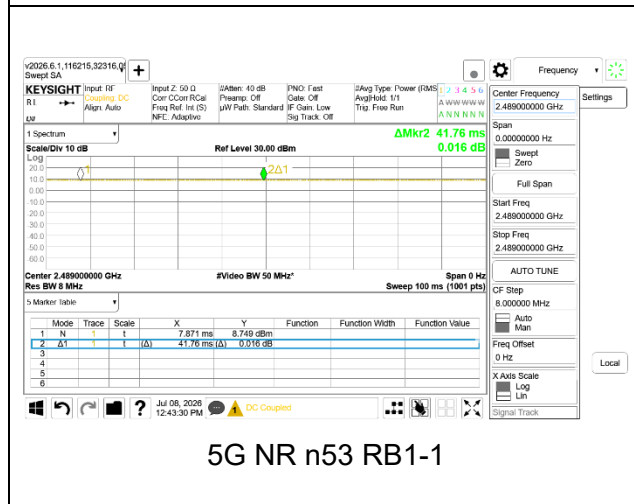
Band	RB Allocation / Offset	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
LTE Band 53	1 / 0	0.980	5.120	0.19	19.14	7.18
LTE Band 53	50 / 0	1.000	5.000	0.20	20.00	6.99
5G NR n53	1 / 1	NA	NA	1.00	100.00	0.00
5G NR n53	24 / 0	NA	NA	1.00	100.00	0.00



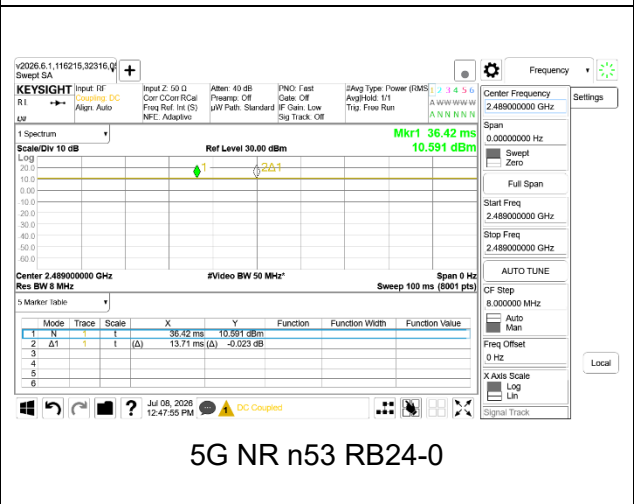
LTE Band 53 RB1-0



LTE Band 53 RB50-0



5G NR n53 RB1-1



5G NR n53 RB24-0

9.2. 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. Worst-case plots (highest bandwidth) are reported only.

If Keysight PXA support both AC and DC coupling, then there will be a warning condition message appearing on the status line "DC coupled". This warning message does not impact test results.

Test Engineer ID:	32188	Test Date:	2026-05-04
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LTE BAND 53

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 53	1.4MHz, QPSK	6/0	2489.0	1.099	1.38
	1.4MHz, 16QAM			1.106	1.38
	3MHz, QPSK	15/0		2.702	3.14
	3MHz, 16QAM			2.709	3.32
	5MHz, QPSK	25/0		4.503	4.96
	5MHz, 16QAM			4.503	5.26
	10MHz, QPSK	50/0		9.007	9.83
	10MHz, 16QAM			8.975	10.14
	10MHz, QPSK	1/0		0.274	0.43

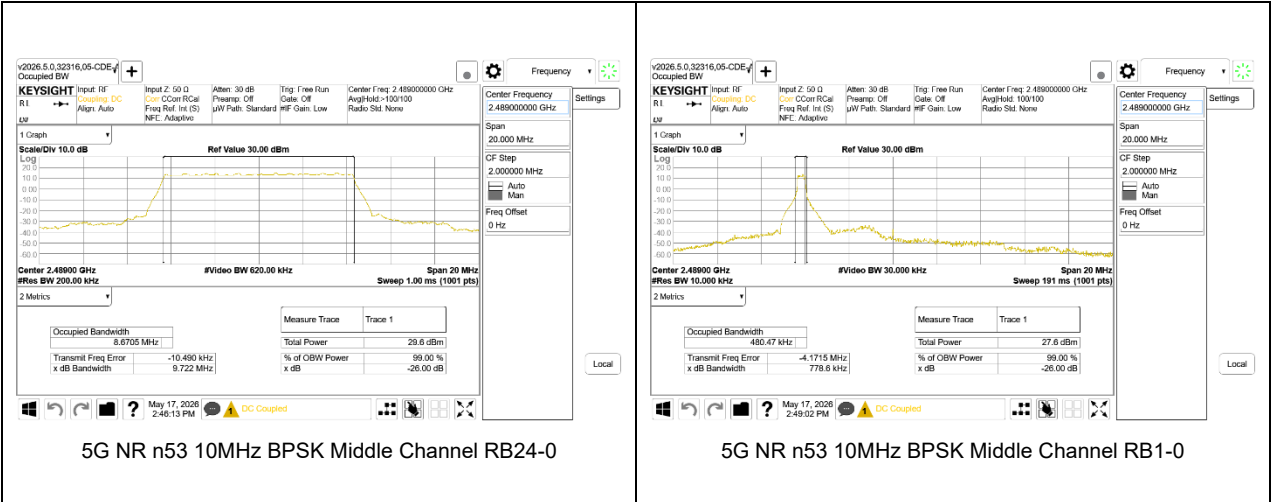
5G NR n53

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n53	10MHz, BPSK	24/0	2489.0	8.671	9.72
	10MHz, QPSK			8.597	9.59
	10MHz, 16QAM			8.625	9.62
	10MHz, BPSK	1/0		0.480	0.78

9.2.1. LTE BAND 53



9.2.2. 5G NR n53



9.3. MAXIMUM POWER SPECTRAL DENSITY

LIMITS

FCC: §25.149 (c)(4) (iv) : The maximum power spectral density conducted to the antenna is not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission;

ISED: SMSE-009-20 Annex A 9.f: The equipment's maximum power spectral density conducted to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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 PSD was measured with the spectrum analyzer at the low/ middle/high channel in each band where RBW=3kHz, VBW $\geq 3 * \text{RBW}$, detector= RMS (power averaging).

RESULTS

If Keysight PXA support both AC and DC coupling, then there will be a warning condition message appearing on the status line "DC coupled". This warning message does not impact test results.

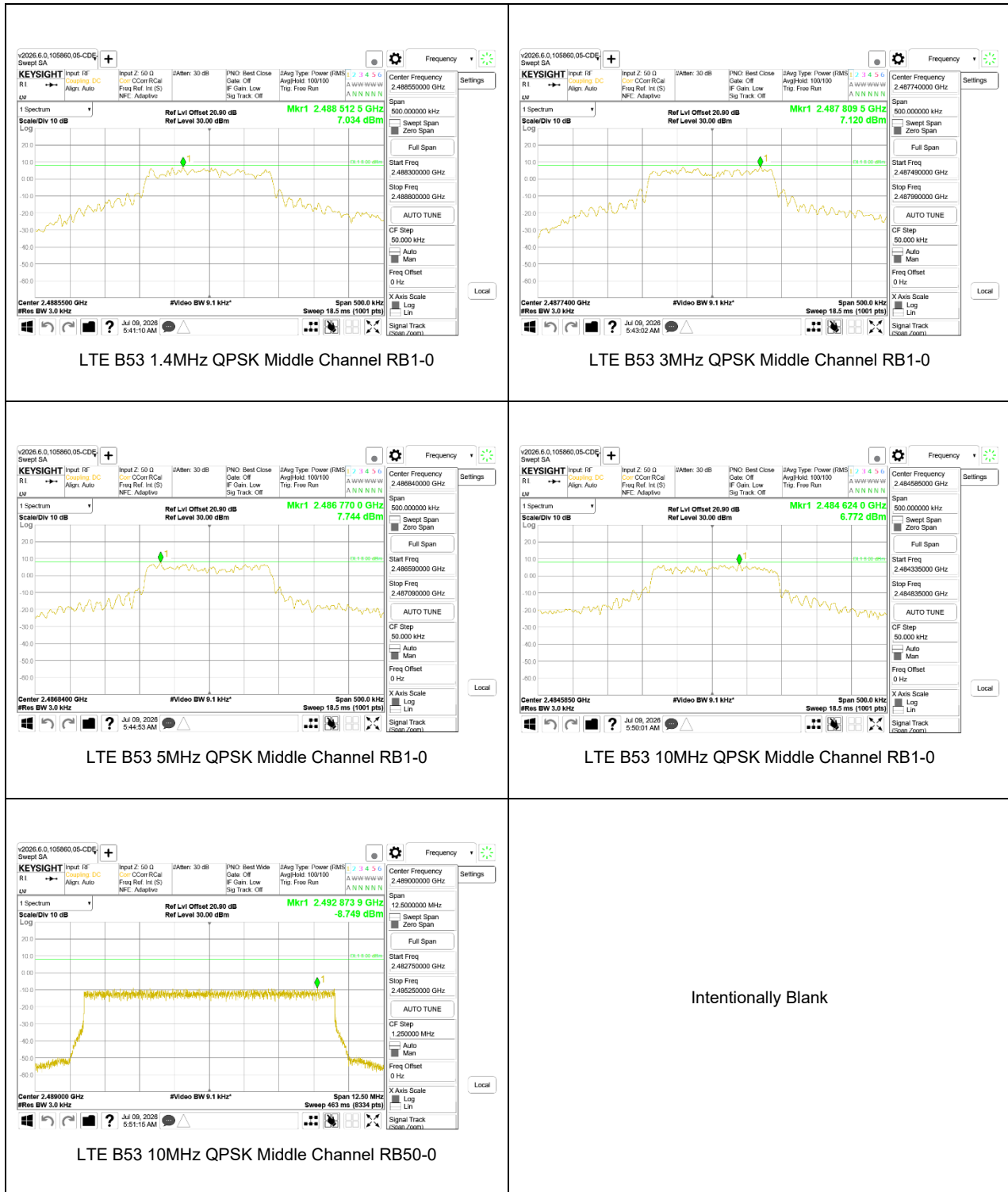
LTE BAND 53

Band	Mode	RB Allocation/RB Offset	f(MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)
LTE BAND 53	1.4MHz, QPSK	1/0	2484.2	7.194	8.0
			2489.0	7.034	
			2494.3	7.044	
	3MHz, QPSK	1/0	2485.0	6.756	
			2489.0	7.120	
			2493.5	7.431	
	5MHz, QPSK	1/0	2486.0	6.713	
			2489.0	7.744	
			2492.5	7.016	
	10MHz, QPSK	1/0	2488.5	7.550	
			2489.0	6.772	
			2490.0	6.962	
		50/0	2488.5	-8.943	
			2489.0	-8.749	
			2490.0	-8.911	

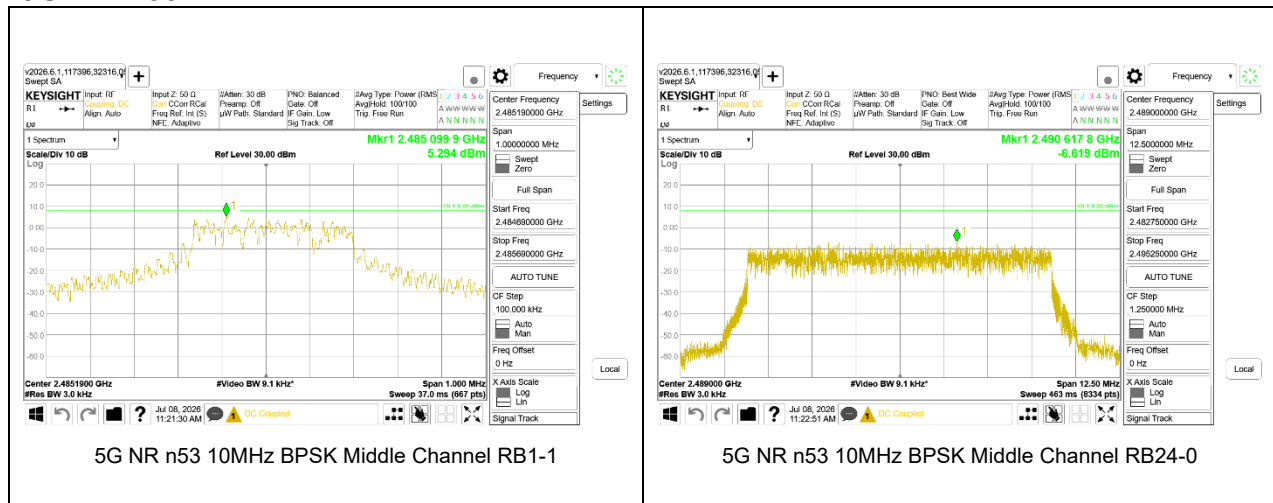
5G NR n53

Band	Mode	RB Allocation/RB Offset	f(MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)
5G NR n53	10MHz, BPSK	1/1	2488.5	5.296	8.0
			2489.0	5.294	
			2490.0	6.163	
		24/0	2488.5	-5.810	
			2489.0	-6.619	
			2490.0	-5.905	

9.3.1. LTE BAND 53



9.3.2. 5G NR n53



9.4. 6dB BANDWIDTH

LIMITS

FCC: §25.149 (c)(4) (ii): The 6 dB bandwidth is at least 500 kHz.

ISED: SMSE-009-20 Annex A 9.c: The 6 dB bandwidth shall be at least 500 kHz.

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 6dB bandwidth was measured with the spectrum analyzer at the low/ middle/high channel in each band where RBW is 1%-5% of EBW, VBW $\geq 3 * RBW$, Peak detector and max hold.

RESULTS

If Keysight PXA support both AC and DC coupling, then there will be a warning condition message appearing on the status line "DC coupled". This warning message does not impact test results.

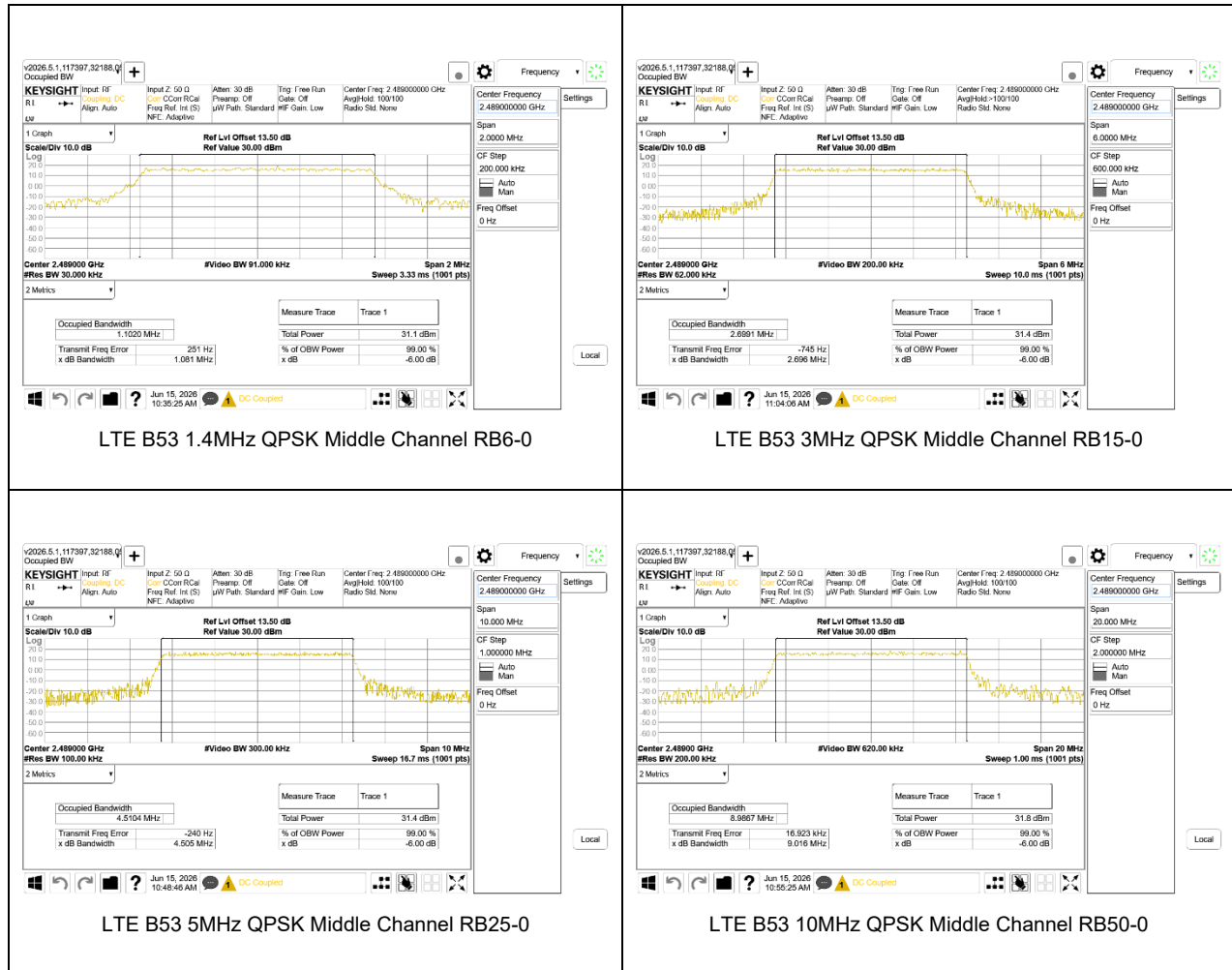
LTE BAND 53

Band	Mode	RB Allocation/RB Offset	f(MHz)	6dB BW (MHz)	6dB BW Minimum Limit (MHz)
LTE BAND 53	1.4MHz, QPSK	6/0	2489.0	1.081	0.5
	1.4MHz, 16QAM			1.071	
	3MHz, QPSK	15/0		2.696	
	3MHz, 16QAM			2.692	
	5MHz, QPSK	25/0		4.505	
	5MHz, 16QAM			4.506	
	10MHz, QPSK	50/0		9.016	
	10MHz, 16QAM			9.012	

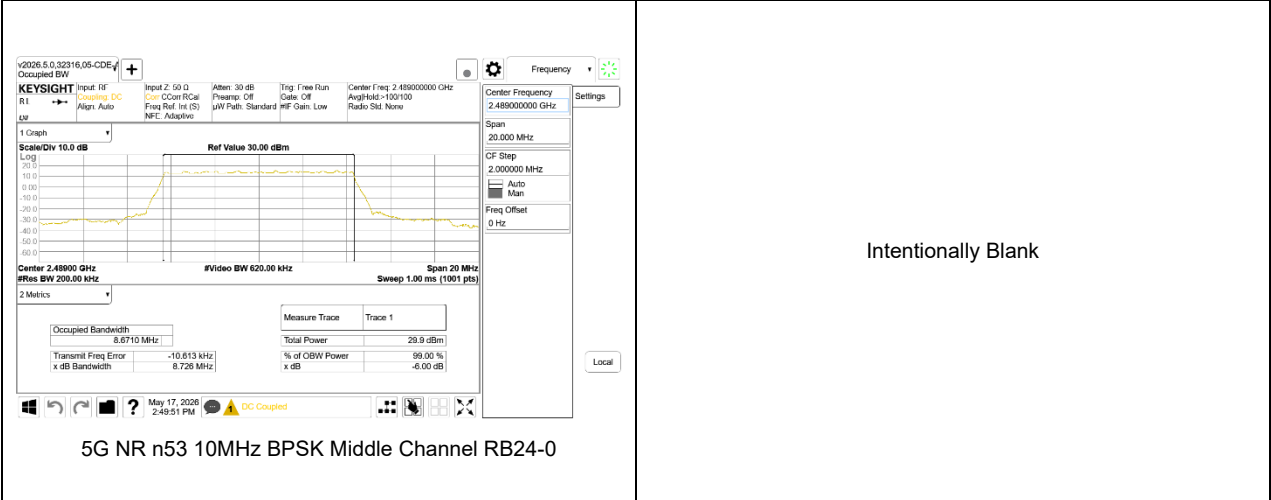
5G NR n53

Band	Mode	RB Allocation/RB Offset	f(MHz)	6dB BW (MHz)	6dB BW Minimum Limit (MHz)
5G NR n53	10MHz, BPSK	24/0	2489.0	8.726	0.5
	10MHz, QPSK	24/0		8.651	
	10MHz, 16QAM	24/0		8.635	

9.4.1. LTE BAND 53



9.4.2. 5G NR n53



9.5. BANEDGE AND EIRP DENSITY

LIMITS

FCC: §25.149

(c) Equipment certification. (4) Applications for equipment authorization of terrestrial low-power system equipment that will operate in the 2483.5-2495 MHz band shall demonstrate the following:

- (v) Emissions below 2483.5 MHz are attenuated below the transmitter power (P) measured in watts by a factor of at least $40 + 10 \log(P)$ dB at the channel edge at 2483.5 MHz, $43 + 10 \log(P)$ dB at 5 MHz from the channel edge, and $55 + 10 \log(P)$ dB at X MHz from the channel edge where X is the greater of 6 MHz or the actual emission bandwidth.
- (vi) Emissions above 2495 MHz are attenuated below the transmitter power (P) measured in watts by a factor of at least $43 + 10 \log(P)$ dB on all frequencies between the channel edge at 2495 MHz and X MHz from this channel edge and $55 + 10 \log(P)$ dB on all frequencies more than X MHz from this channel edge, where X is the greater of 6 MHz or the actual emission bandwidth;

ISED: SMSE-900-20 Annex A 9:

(g) For the unwanted emission below 2483.5 MHz, the ATC system's transmitter power, P (Watt), shall be attenuated by at least:

- i. $40 + 10 \log(P)$ dB at the channel edge at 2483.5 MHz
- ii. $43 + 10 \log(P)$ dB at 5 MHz from the channel edge
- iii. $55 + 10 \log(P)$ dB at X MHz from the channel edge

where X is the greater of 6 MHz or the actual emission bandwidth.

(h) For the unwanted emission above 2495 MHz, the ATC system's transmitter power, P (Watt), shall be attenuated by at least:

- i. $43 + 10 \log(P)$ dB on all frequencies between the channel edge at 2495 MHz and X MHz from this channel edge
- ii. $55 + 10 \log(P)$ dB on all frequencies more than X MHz from this channel edge

where X is the greater of 6 MHz or the actual emission bandwidth.

Notwithstanding the above requirements, the e.i.r.p. density of the ATC system's unwanted emission shall not exceed:

- i. -44.1 dBW/30 kHz measured from the edge of the equipment channel bandwidth.
- ii. -70 dBW/MHz for broadband emissions and -80 dBW/kHz for discrete emissions in the band 1559-1610 MHz

TEST PROCEDURE FOR UNWANTED EMISSIONS

The transmitter output was connected to a CMW500Test Set 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 Emission Mask measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set the Spectrum Emission Mask to cover all frequencies at their respective limits
3. Set the Spectrum Emission Mask to use the required Measurement Bandwidth
4. Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE For EIRP DENSITY LIMIT

The transmitter output was connected to a CMW500Test Set 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 Emission Mask measurement:

1. Set the Spectrum analyzer span to include the block edge frequency.
2. Set the Spectrum Emission Mask to cover all frequencies at their respective limits
3. Set the Spectrum Emission Mask to use the Measurement Bandwidth of 30kHz

RESULTS

If Keysight PXA support both AC and DC coupling, then there will be a warning condition message appearing on the status line "DC coupled". This warning message does not impact test results.

9.5.1. LTE BAND 53

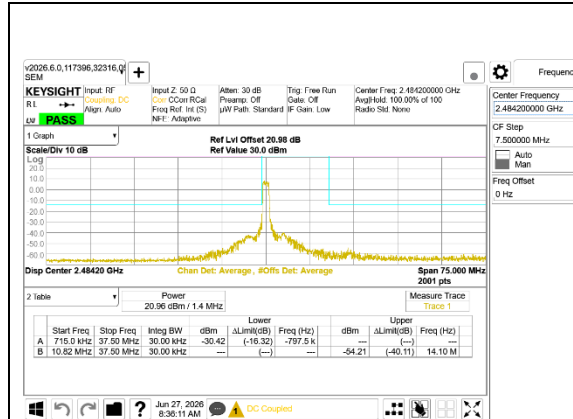
LTE BAND 53 BANDEGE



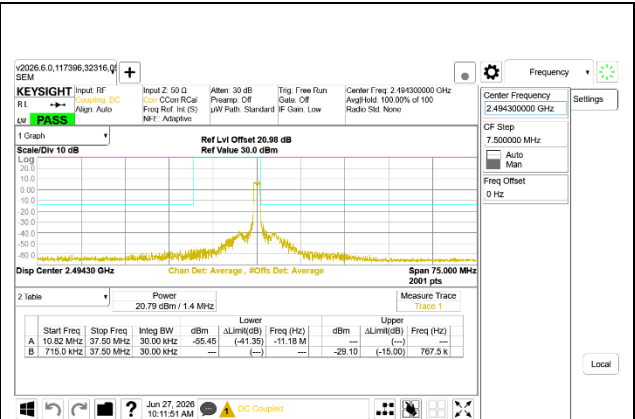


LTE BAND 53 EIRP DENSITY

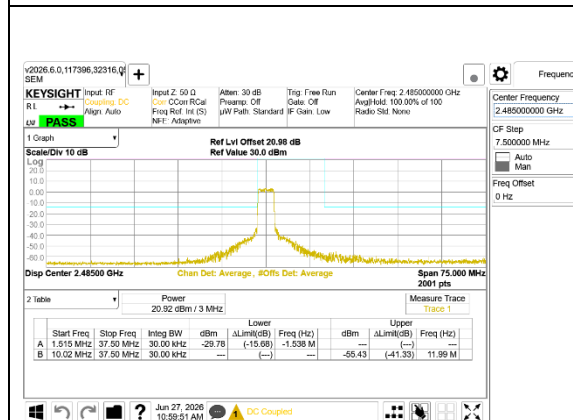
Band	Mode	RB Allocation/ RB Offset	Freq (MHz)	Highest Cond Power Density (dBm/30kHz)	Highest Antenna Gain (dBi)	Highest EIRP Density (dBm/30kHz)	EIRP Density Limit (dBm/30kHz)
LTE Band 53	1.4MHz, QPSK	1/0	2484.2	-23.70	-1.6	-25.30	-14.1
		6/0	2484.2	-30.42		-32.02	
		1/5	2494.3	-22.07		-23.67	
		6/0	2494.3	-29.10		-30.70	
	3MHz, QPSK	1/0	2485.0	-21.17		-22.77	
		15/0	2485.0	-29.78		-31.38	
		1/14	2493.5	-20.37		-21.97	
		15/0	2493.5	-32.61		-34.21	
	5MHz, QPSK	1/0	2486.0	-25.50		-27.10	
		25/0	2486.0	-35.91		-37.51	
		1/24	2492.5	-25.50		-27.10	
		25/0	2492.5	-36.17		-37.77	
	10MHz, QPSK	1/0	2488.5	-31.71		-33.31	
		50/0	2488.5	-39.79		-41.39	
		1/49	2490.0	-30.01		-31.61	
		50/0	2490.0	-40.76		-42.36	



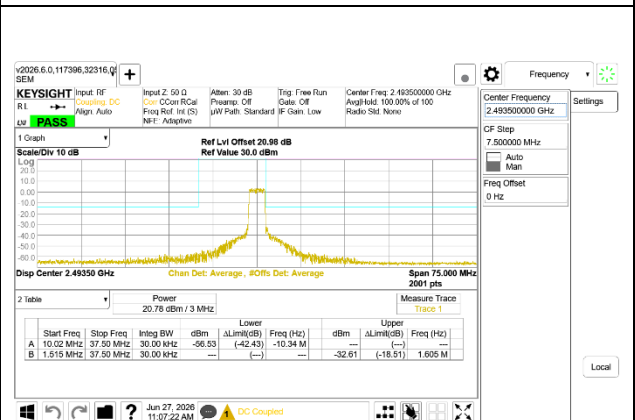
LTE B53 1.4MHz QPSK Low Channel RB6-0



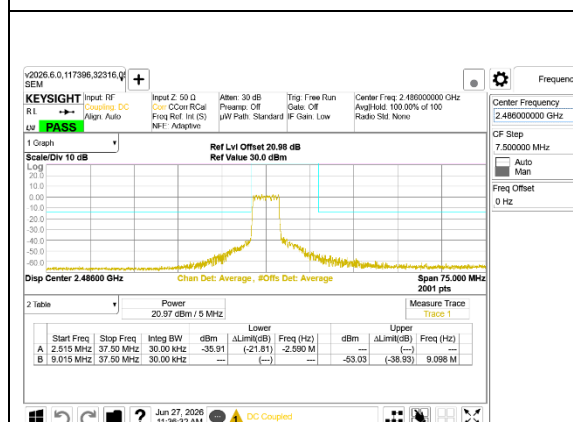
LTE B53 1.4MHz QPSK High Channel RB6-0



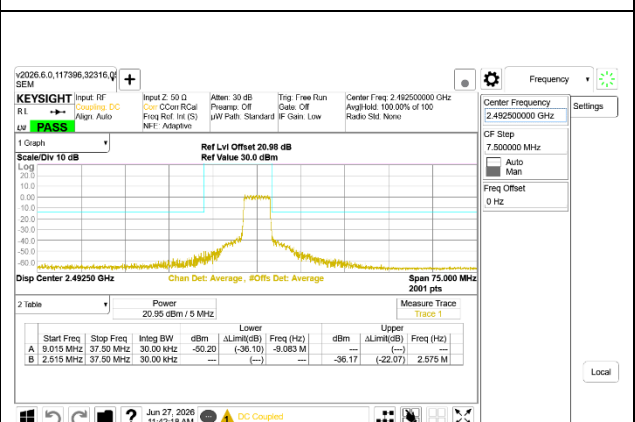
LTE B53 3MHz QPSK Low Channel RB15-0



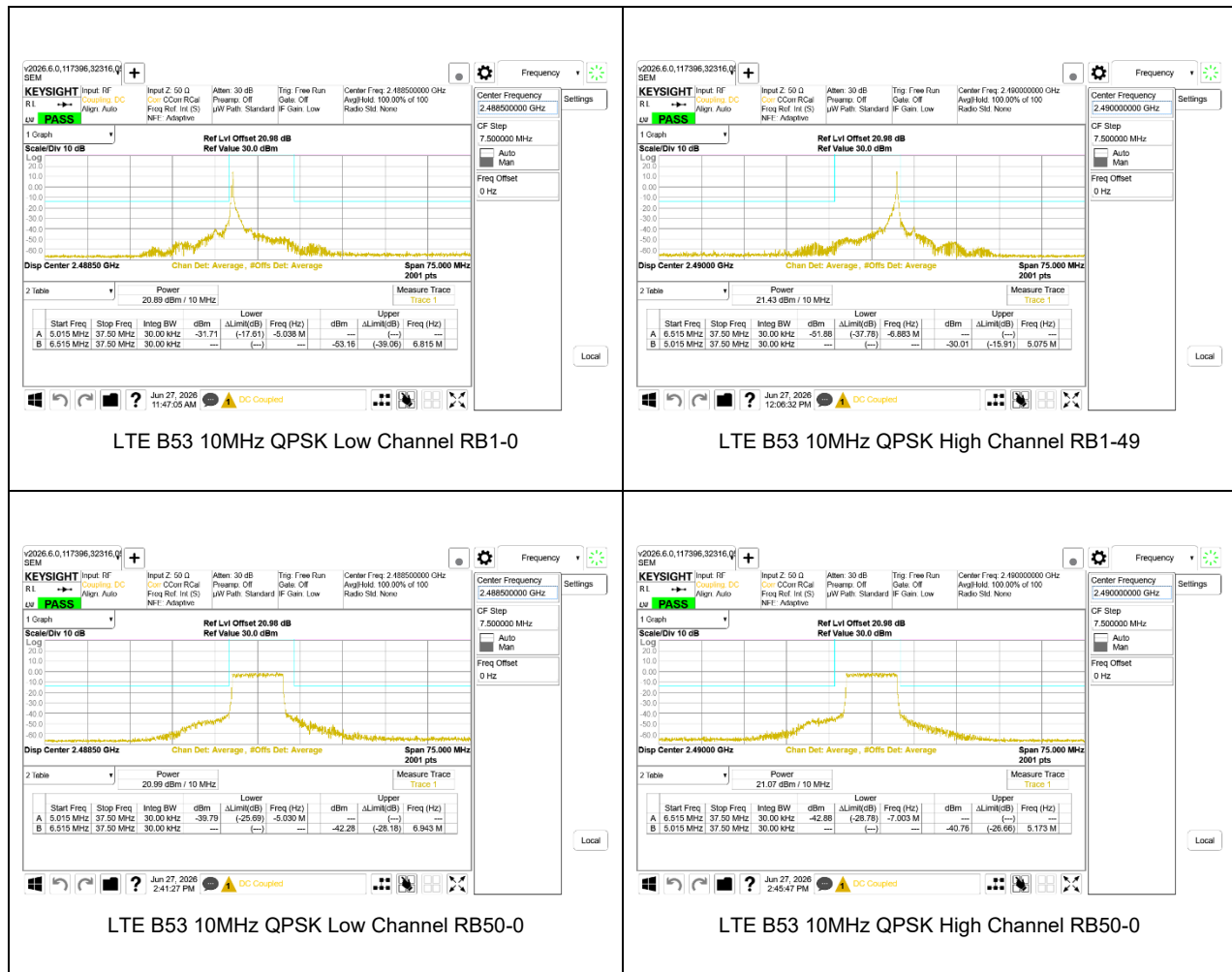
LTE B53 3MHz QPSK High Channel RB15-0



LTE B53 5MHz QPSK Low Channel RB25-0

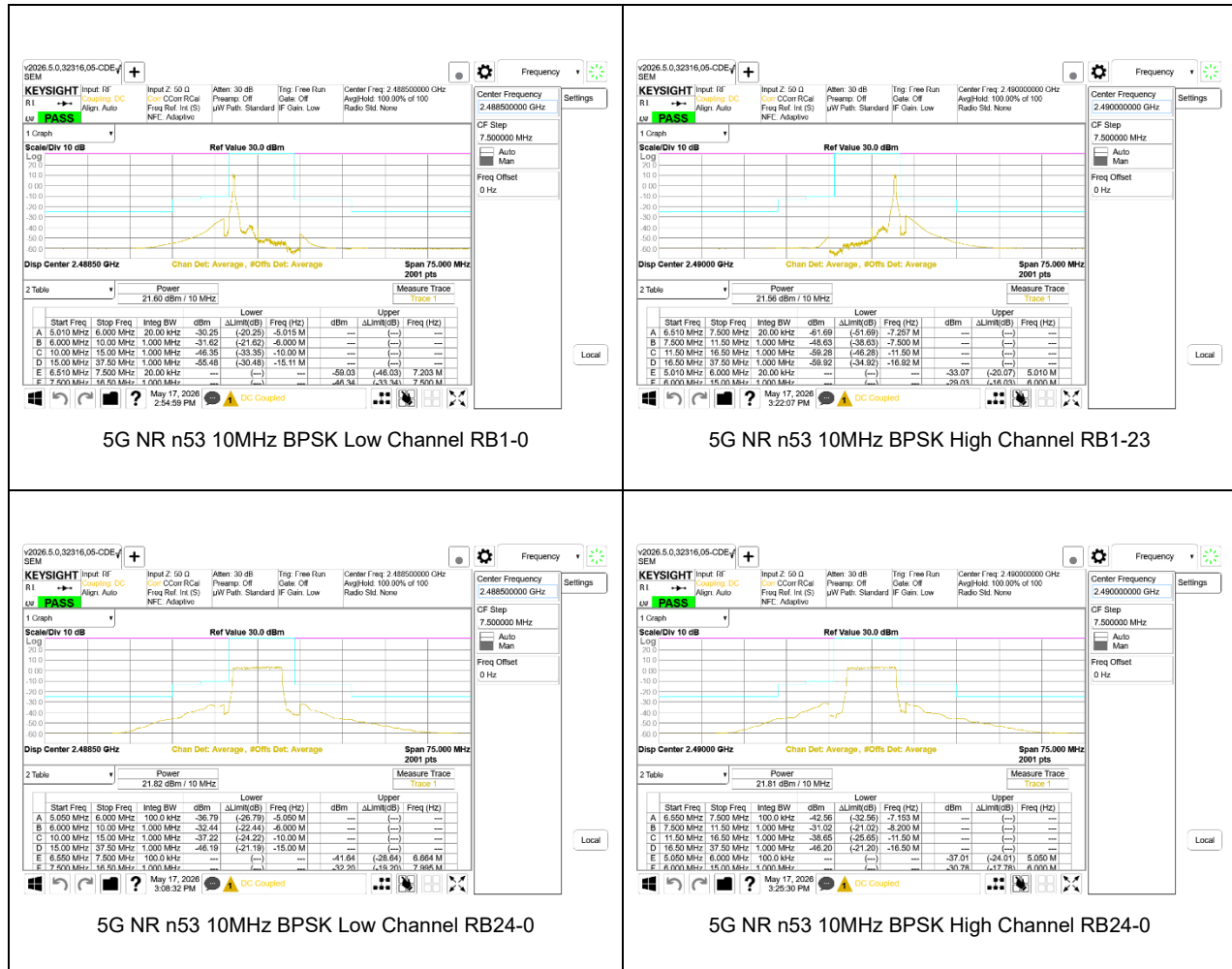


LTE B53 5MHz QPSK High Channel RB25-0



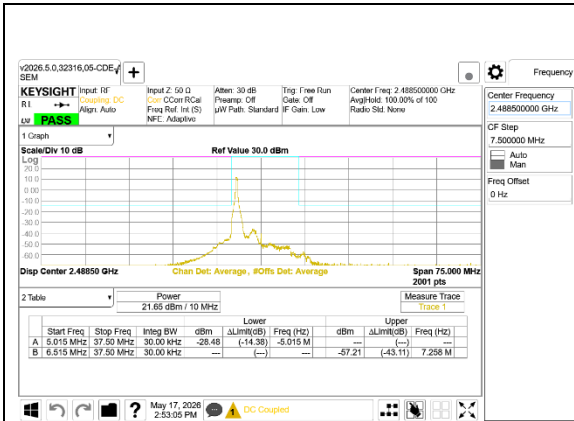
9.5.2 5G NR n53

5G NR n53 BANDEDGE

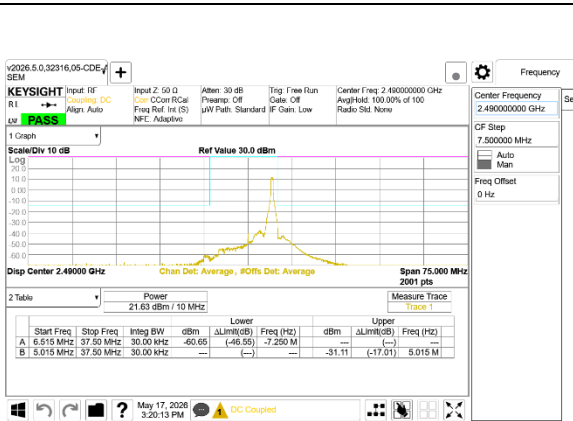


5G NR n53 EIRP DENSITY

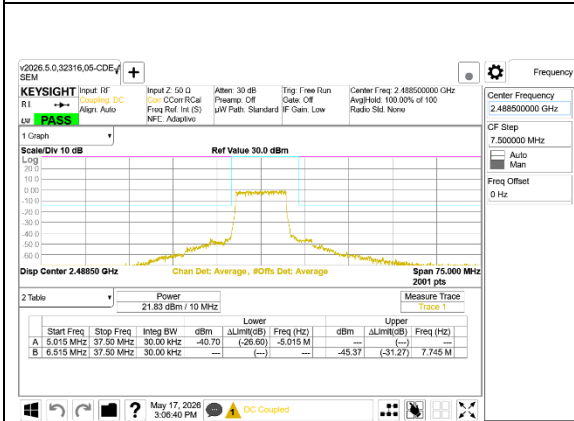
Band	Mode	RB Allocation/ RB Offset	Freq (MHz)	Highest Cond Power Density (dBm/30kHz)	Highest Antenna Gain (dBi)	Highest ERP Density (dBm/30kHz)	EIRP Density Limit (dBm/30kHz)
5G NR n53	10MHz, BPSK	1/0	2488.5	-28.48	-1.6	-30.08	-14.1
		24/0	2488.5	-40.70		-42.30	
		1/23	2490.0	-31.11		-32.71	
		24/0	2490.0	-40.11		-41.71	



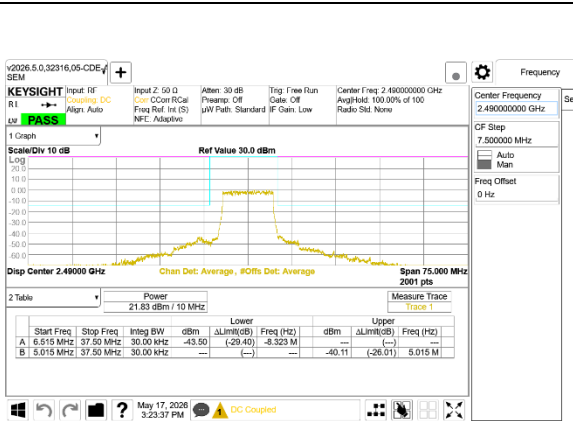
5G NR n53 10MHz BPSK Low Channel RB1-0



5G NR n53 10MHz BPSK High Channel RB1-23



5G NR n53 10MHz BPSK Low Channel RB24-0



5G NR n53 10MHz BPSK High Channel RB24-0

9.6. OUT OF BAND EMISSIONS

LIMITS

FCC: §25.149 (c)(4)

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

ISED: SMSE-900-20 Annex A 9.g, h

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ 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.

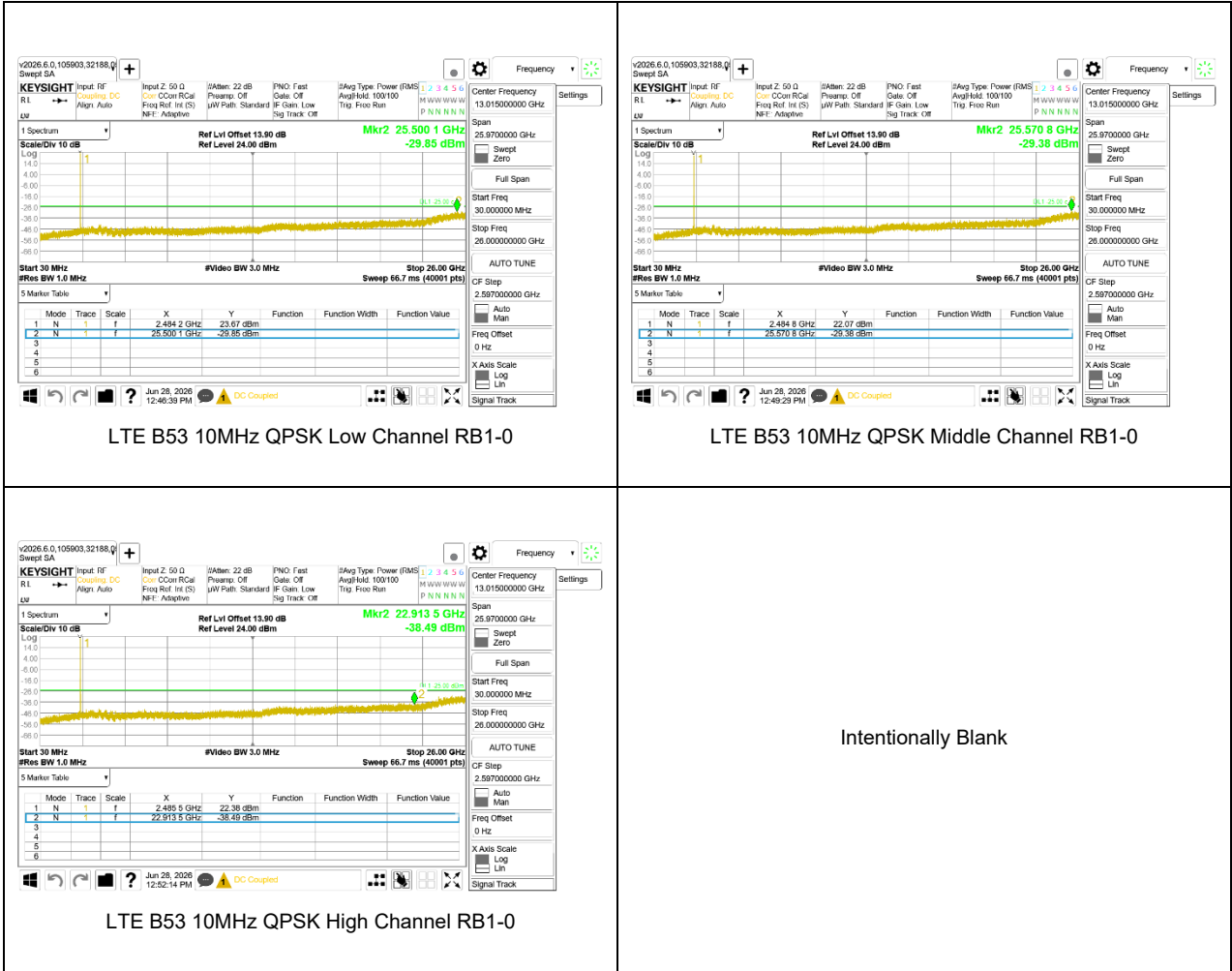
For each out of band emissions measurement:

- Set display line at -25dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

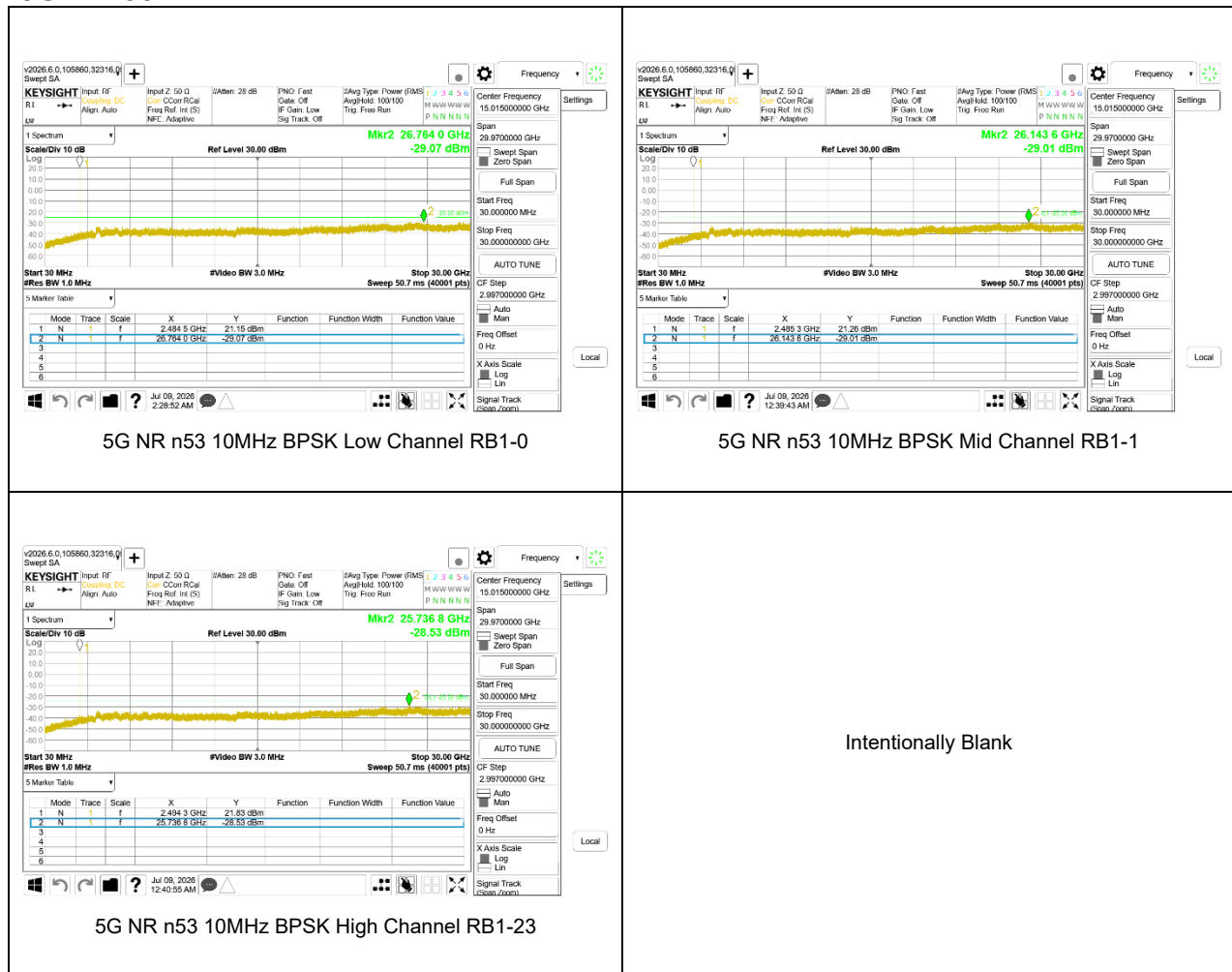
RESULTS

If Keysight PXA support both AC and DC coupling, then there will be a warning condition message appearing on the status line "DC coupled". This warning message does not impact test results.

9.6.1. LTE BAND 53



9.6.2. 5G NR 53



9.7. FREQUENCY STABILITY

LIMITS

FCC: §25.202 (d)

(d) Frequency tolerance, Earth stations. The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

ISED: RSS 170§ 5.3

For all other ATC equipment, the carrier frequency shall not drift from the reference frequency in excess of ± 2.5 ppm for mobile equipment.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)
Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 2.85VDC.

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.

9.7.1. LTE BAND 53 QPSK (10MHz BANDWIDTH)

Test Engineer ID:	28774	Test Date:	2026-05-14
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Band	53	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2483.5	2495		10	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	2483.9232	2494.5559			
Extreme (50°C)		2483.9232	2494.5558	-5.4	-0.002	Yes
Extreme (40°C)		2483.9232	2494.5559	-4.9	-0.002	Yes
Extreme (30°C)		2483.9232	2494.5559	4.7	0.002	Yes
Extreme (10°C)		2483.9232	2494.5559	-4.6	-0.002	Yes
Extreme (0°C)		2483.9232	2494.5559	4.4	0.002	Yes
Extreme (-10°C)		2483.9232	2494.5559	-4.1	-0.002	Yes
Extreme (-20°C)		2483.9232	2494.5559	-5.1	-0.002	Yes
Extreme (-30°C)		2483.9232	2494.5559	-4.6	-0.002	Yes
20°C	15%	2483.9232	2494.5559	4.9	0.002	Yes
	-15%	2483.9232	2494.5559	-4.7	-0.002	Yes
	End Point Voltage	2483.9232	2494.5559	-4.8	-0.002	Yes

9.7.2. 5G NR n53 BPSK (10MHz BANDWIDTH)

Test Engineer ID:	28774	Test Date:	2026-05-14
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Band	53	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2483.5	2495		10	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	
Temperature	Voltage					
Normal (20°C)	Normal	2484.1677	2494.2909			
Extreme (50°C)		2484.1677	2494.2909	-2.8	-0.001	Yes
Extreme (40°C)		2484.1677	2494.2909	-1.9	-0.001	Yes
Extreme (30°C)		2484.1677	2494.2909	-3.7	-0.001	Yes
Extreme (10°C)		2484.1677	2494.2909	-3.3	-0.001	Yes
Extreme (0°C)		2484.1677	2494.2909	2.4	0.001	Yes
Extreme (-10°C)		2484.1677	2494.2909	-2.9	-0.001	Yes
Extreme (-20°C)		2484.1677	2494.2909	-3.6	-0.001	Yes
Extreme (-30°C)		2484.1677	2494.2909	1.9	0.001	Yes
20°C	15%	2484.1677	2494.2909	-2.9	-0.001	Yes
	-15%	2484.1677	2494.2909	2.4	0.001	Yes
	End Point Voltage	2484.1677	2494.2909	2.1	0.001	Yes

10. RADIATED TEST RESULTS

LIMITS

FCC: §25.149 (c)(4)

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

ISED: SMSE-900-20 Annex A 9.g, h

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

ISED: SMSE-900-20 Annex A 9.i

(ii) -70 dBW/MHz for broadband emissions and -80 dBW/kHz for discrete emissions in the band 1559-1610 MHz.

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.

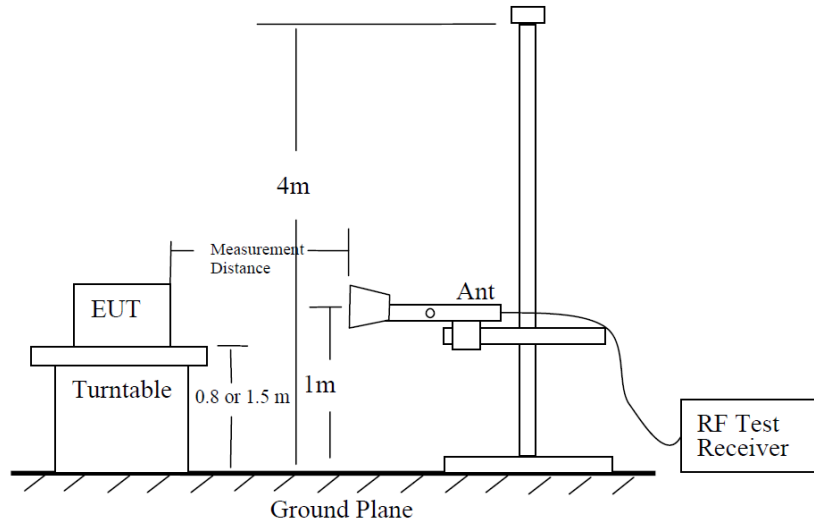


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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.

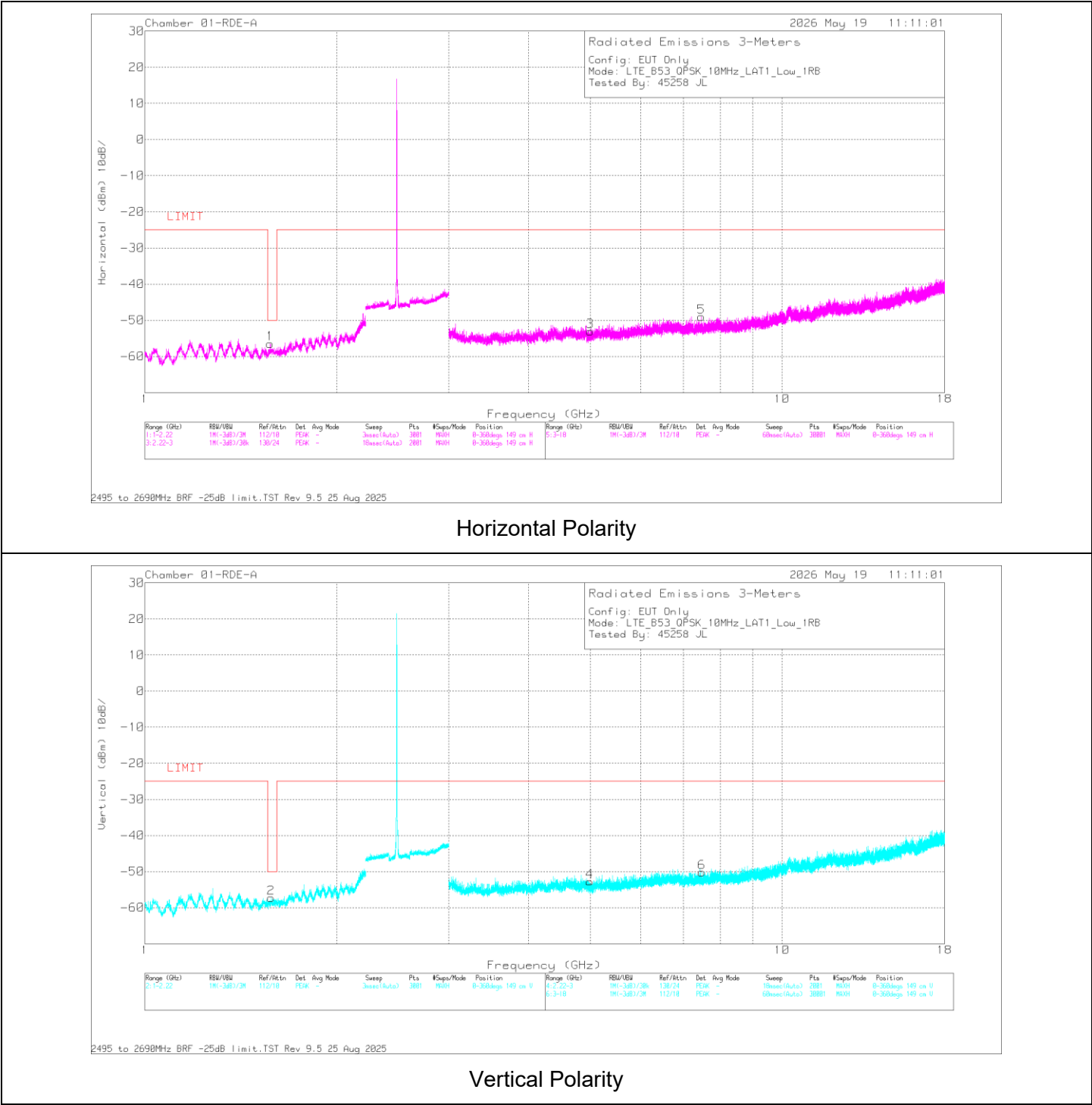
So, from d)

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.

Example Plot Above 1GHz



Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	200785 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
1.572994	55.16	Pk	28.2	-95.2	-44.59	-56.43	-50	-6.43	H
1.577060	54.26	Pk	28.2	-95.2	-44.58	-57.32	-50	-7.32	V
5.000500	49.62	Pk	34.2	-95.2	-41.67	-53.05	-25	-28.05	H
4.989500	49.85	Pk	34.2	-95.2	-41.59	-52.74	-25	-27.74	V
7.473000	49.72	Pk	35.8	-95.2	-39.37	-49.05	-25	-24.05	H
7.482000	48.54	Pk	35.8	-95.2	-39.37	-50.23	-25	-25.23	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION

TEST PROCEDURE

KDB 971168 D01 /D02

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

The transmitter output was connected to a CMW500Test Set 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.

FCC: §25.149 (c)(4)

(vii) Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately above and adjacent to the 2495 MHz a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. If 1 percent of the emission bandwidth of the fundamental emission is less than 1 MHz, the power measured must be integrated over the required measurement bandwidth of 1 MHz. A resolution bandwidth narrower than 1 MHz is permitted to improve measurement accuracy, provided the measured power is integrated over the full required measurement bandwidth (*i.e.*, 1 MHz). The emission bandwidth of the fundamental emission of a transmitter 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. When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

ISED: SMSE-009-20 Annex A 9

j. Compliance with this limit may be based on the use of a measurement resolution bandwidth of at least 1% of the occupied bandwidth. If 1% of the occupied bandwidth is less than 1 MHz, the power measured shall be integrated over the required measurement bandwidth of 1 MHz.

RESULTS

10.1.1. LTE BAND 53

Configuration:	EUT Only
Mode	LTE B53 QPSK 10MHz, 1RB

Date	Test Engineer	Chamber #	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	EIRP CF	Gain/ Loss (dB)	Correct Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
5/19/2026	45258	01-RDE-A	Low Ch 2488.5	14	1.572994	55.16	Pk	28.2	-95.2	-44.59	-56.43	-50	-6.43	H
					1.577060	54.26	Pk	28.2	-95.2	-44.58	-57.32	-50	-7.32	V
					5.000500	49.62	Pk	34.2	-95.2	-41.67	-53.05	-25	-28.05	H
					4.989500	49.85	Pk	34.2	-95.2	-41.59	-52.74	-25	-27.74	V
					7.473000	49.72	Pk	35.8	-95.2	-39.37	-49.05	-25	-24.05	H
					7.482000	48.54	Pk	35.8	-95.2	-39.37	-50.23	-25	-25.23	V
			1.587227		54.08	Pk	28.3	-95.2	-44.56	-57.38	-50	-7.38	H	
			1.586414		54.84	Pk	28.3	-95.2	-44.56	-56.62	-50	-6.62	V	
			5.006500		49.44	Pk	34.2	-95.2	-41.60	-53.16	-25	-28.16	H	
			5.004500		49.87	Pk	34.2	-95.2	-41.66	-52.79	-25	-27.79	V	
			7.505000		47.85	Pk	35.8	-95.2	-39.22	-50.77	-25	-25.77	H	
			7.500500		47.15	Pk	35.8	-95.2	-39.21	-51.46	-25	-26.46	V	
			1.582347		54.19	Pk	28.3	-95.2	-44.58	-57.29	-50	-7.29	H	
			1.581534		53.08	Pk	28.3	-95.2	-44.58	-58.4	-50	-8.40	V	
			4.995500		49.74	Pk	34.2	-95.2	-41.50	-52.76	-25	-27.76	H	
			4.995500		47.85	Pk	34.2	-95.2	-41.50	-54.65	-25	-29.65	V	
			7.447000		47.89	Pk	35.8	-95.2	-39.29	-50.8	-25	-25.80	H	
			7.447000		46.68	Pk	35.8	-95.2	-39.29	-52.01	-25	-27.01	V	
5/19/2026	19118	01-RDE-A	Low Ch 2488.5	1	1.596580	53.76	Pk	28.4	-95.2	-44.52	-57.56	-50	-7.56	H
					1.575027	55.56	Pk	28.2	-95.2	-44.58	-56.02	-50	-6.02	V
					4.952500	50.29	Pk	34.2	-95.2	-41.63	-52.34	-25	-27.34	H
					4.946500	49.54	Pk	34.3	-95.2	-41.68	-53.04	-25	-28.04	V
					7.468000	48.14	Pk	35.8	-95.2	-39.37	-50.63	-25	-25.63	H
					7.467500	47.94	Pk	35.8	-95.2	-39.37	-50.83	-25	-25.83	V
			1.596580		53.58	Pk	28.4	-95.2	-44.52	-57.74	-50	-7.74	H	
			1.584380		55.24	Pk	28.3	-95.2	-44.57	-56.23	-50	-6.23	V	
			5.005000		49.97	Pk	34.2	-95.2	-41.64	-52.67	-25	-27.67	H	
			4.992500		49.70	Pk	34.2	-95.2	-41.56	-52.86	-25	-27.86	V	
			7.458000		47.67	Pk	35.8	-95.2	-39.25	-50.98	-25	-25.98	H	
			7.455500		47.57	Pk	35.8	-95.2	-39.26	-51.09	-25	-26.09	V	
			1.595767		54.11	Pk	28.4	-95.2	-44.52	-57.21	-50	-7.21	H	
			1.580720		54.48	Pk	28.3	-95.2	-44.58	-57.00	-50	-7.00	V	
			4.957500		50.02	Pk	34.2	-95.2	-41.56	-52.54	-25	-27.54	H	
			4.968000		49.57	Pk	34.2	-95.2	-41.48	-52.91	-25	-27.91	V	
			7.471000		48.14	Pk	35.8	-95.2	-39.36	-50.62	-25	-25.62	H	
			7.465500		47.54	Pk	35.8	-95.2	-39.40	-51.26	-25	-26.26	V	

Configuration:	EUT Only
Mode	LTE B53 QPSK 10MHz, 50RB

Date	Test Engineer	Chamber #	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	EIRP CF	Gain/ Loss (dB)	Correct Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
5/19/2026	45258	01-RDE-A	Low Ch 2488.5	14	1.606747	54.32	Pk	28.4	-95.2	-44.46	-56.94	-50	-6.94	H
					1.606341	54.31	Pk	28.4	-95.2	-44.46	-56.95	-50	-6.95	V
					5.001500	49.92	Pk	34.2	-95.2	-41.69	-52.77	-25	-27.77	H
					4.999000	48.84	Pk	34.2	-95.2	-41.60	-53.76	-25	-28.76	V
					7.536000	49.46	Pk	35.8	-95.2	-39.23	-49.17	-25	-24.17	H
					7.538500	47.55	Pk	35.8	-95.2	-39.21	-51.06	-25	-26.06	V
			Mid Ch 2489		1.584787	54.20	Pk	28.3	-95.2	-44.57	-57.27	-50	-7.27	H
					1.583160	54.08	Pk	28.3	-95.2	-44.57	-57.39	-50	-7.39	V
					4.997500	49.30	Pk	34.2	-95.2	-41.56	-53.26	-25	-28.26	H
					4.998000	48.76	Pk	34.2	-95.2	-41.57	-53.81	-25	-28.81	V
					7.505500	48.16	Pk	35.8	-95.2	-39.22	-50.46	-25	-25.46	H
					7.501000	47.96	Pk	35.8	-95.2	-39.19	-50.63	-25	-25.63	V
			High Ch 2490		1.596580	53.96	Pk	28.4	-95.2	-44.52	-57.36	-50	-7.36	H
					1.596580	53.39	Pk	28.4	-95.2	-44.52	-57.93	-50	-7.93	V
					4.995500	49.39	Pk	34.2	-95.2	-41.50	-53.11	-25	-28.11	H
					4.995000	48.35	Pk	34.2	-95.2	-41.50	-54.15	-25	-29.15	V
					7.468500	49.25	Pk	35.8	-95.2	-39.36	-49.51	-25	-24.51	H
					7.470000	47.98	Pk	35.8	-95.2	-39.35	-50.77	-25	-25.77	V
5/19/2026	45258	01-RDE-A	Low Ch 2488.5	1	1.600647	54.72	Pk	28.4	-95.2	-44.49	-56.57	-50	-6.57	H
					1.601054	54.08	Pk	28.4	-95.2	-44.49	-57.21	-50	-7.21	V
					4.999500	48.44	Pk	34.2	-95.2	-41.62	-54.18	-25	-29.18	H
					4.999000	49.01	Pk	34.2	-95.2	-41.60	-53.59	-25	-28.59	V
					7.498000	48.17	Pk	35.8	-95.2	-39.27	-50.50	-25	-25.50	H
					7.499500	47.11	Pk	35.8	-95.2	-39.22	-51.51	-25	-26.51	V
			Mid Ch 2489		1.575027	55.00	Pk	28.2	-95.2	-44.58	-56.58	-50	-6.58	H
					1.575027	53.27	Pk	28.2	-95.2	-44.58	-58.31	-50	-8.31	V
					4.999500	49.32	Pk	34.2	-95.2	-41.62	-53.30	-25	-28.30	H
					4.994500	49.34	Pk	34.2	-95.2	-41.51	-53.17	-25	-28.17	V
					7.494000	47.64	Pk	35.8	-95.2	-39.31	-51.07	-25	-26.07	H
					7.497000	47.90	Pk	35.8	-95.2	-39.28	-50.78	-25	-25.78	V
			High Ch 2490		1.574620	54.21	Pk	28.2	-95.2	-44.59	-57.38	-50	-7.38	H
					1.573807	54.14	Pk	28.2	-95.2	-44.60	-57.46	-50	-7.46	V
					5.001000	48.85	Pk	34.2	-95.2	-41.69	-53.84	-25	-28.84	H
					5.002000	49.46	Pk	34.2	-95.2	-41.69	-53.23	-25	-28.23	V
					7.501000	47.65	Pk	35.8	-95.2	-39.19	-50.94	-25	-25.94	H
					7.501500	47.87	Pk	35.8	-95.2	-39.19	-50.72	-25	-25.72	V

10.1.2. 5G NR n53

Configuration:	EUT Only
Mode	5G NR n53 BPSK 10MHz, 1RB

Date	Test Engineer	Chamber #	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	EIRP CF	Gain/ Loss (dB)	Correct Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
5/21/2026	45258	01-RDE-A	Low Ch 2488.5	14	1.584787	53.74	Pk	28.3	-95.2	-44.57	-57.73	-50	-7.73	H
					1.585194	53.60	Pk	28.3	-95.2	-44.57	-57.87	-50	-7.87	V
					4.976500	48.80	Pk	34.2	-95.2	-41.48	-53.68	-25	-28.68	H
					4.972500	48.66	Pk	34.2	-95.2	-41.44	-53.78	-25	-28.78	V
					7.474000	47.77	Pk	35.8	-95.2	-39.39	-51.02	-25	-26.02	H
					7.471500	46.92	Pk	35.8	-95.2	-39.36	-51.84	-25	-26.84	V
			Mid Ch 2489		1.562827	54.55	Pk	28.1	-95.2	-44.63	-57.18	-50	-7.18	H
					1.560794	53.90	Pk	28.1	-95.2	-44.65	-57.85	-50	-7.85	V
					4.977500	49.02	Pk	34.2	-95.2	-41.47	-53.45	-25	-28.45	H
					4.978000	48.48	Pk	34.2	-95.2	-41.47	-53.99	-25	-28.99	V
					7.472000	47.44	Pk	35.8	-95.2	-39.36	-51.32	-25	-26.32	H
					7.472000	47.36	Pk	35.8	-95.2	-39.36	-51.40	-25	-26.40	V
			High Ch 2490		1.598207	54.72	Pk	28.4	-95.2	-44.52	-56.60	-50	-6.60	H
					1.598614	53.59	Pk	28.4	-95.2	-44.51	-57.72	-50	-7.72	V
					5.000000	48.88	Pk	34.2	-95.2	-41.64	-53.76	-25	-28.76	H
					4.995000	48.68	Pk	34.2	-95.2	-41.50	-53.82	-25	-28.82	V
					7.468500	46.98	Pk	35.8	-95.2	-39.36	-51.78	-25	-26.78	H
					7.471500	46.92	Pk	35.8	-95.2	-39.36	-51.84	-25	-26.84	V
7/6/2026	45258	01-RDE-A	Low Ch 2488.5	1	1.588854	54.61	Pk	28.0	-95.2	-44.55	-57.14	-50	-7.14	H
					1.587634	54.40	Pk	28.0	-95.2	-44.56	-57.36	-50	-7.36	V
					5.174000	49.23	Pk	34.4	-95.2	-41.31	-52.88	-25	-27.88	H
					5.174500	48.98	Pk	34.4	-95.2	-41.31	-53.13	-25	-28.13	V
					7.766000	47.95	Pk	35.8	-95.2	-38.78	-50.23	-25	-25.23	H
					7.763500	48.40	Pk	35.8	-95.2	-38.74	-49.74	-25	-24.74	V
			Mid Ch 2489		1.587227	55.13	Pk	28.0	-95.2	-44.56	-56.63	-50	-6.63	H
					1.567707	54.87	Pk	27.9	-95.2	-44.63	-57.06	-50	-7.06	V
					5.179000	50.32	Pk	34.4	-95.2	-41.31	-51.79	-25	-26.79	H
					5.180000	49.22	Pk	34.4	-95.2	-41.29	-52.87	-25	-27.87	V
					7.778000	47.97	Pk	35.9	-95.2	-38.72	-50.05	-25	-25.05	H
					7.779500	47.35	Pk	35.9	-95.2	-38.78	-50.73	-25	-25.73	V
			High Ch 2490		1.590480	54.32	Pk	28.0	-95.2	-44.55	-57.43	-50	-7.43	H
					1.588854	55.50	Pk	28.0	-95.2	-44.55	-56.25	-50	-6.25	V
					5.178000	48.84	Pk	34.4	-95.2	-41.30	-53.26	-25	-28.26	H
					5.179000	49.47	Pk	34.4	-95.2	-41.31	-52.64	-25	-27.64	V
					7.775000	48.36	Pk	35.9	-95.2	-38.67	-49.61	-25	-24.61	H
					7.774500	48.36	Pk	35.9	-95.2	-38.69	-49.63	-25	-24.63	V

Configuration:	EUT Only
Mode	5G NR n53 BPSK 10MHz, 24RB

Date	Test Engineer	Chamber #	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBUV)	Det	ACF (dB/m)	EIRP CF	Gain/ Loss (dB)	Correct Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
5/21/2026	45258	01-RDE-A	Low Ch 2488.5	14	1.599427	52.97	Pk	28.4	-95.2	-44.50	-58.33	-50	-8.33	H
					1.598614	53.59	Pk	28.4	-95.2	-44.51	-57.72	-50	-7.72	V
					4.979500	50.20	Pk	34.2	-95.2	-41.47	-52.27	-25	-27.27	H
					4.983000	48.68	Pk	34.2	-95.2	-41.45	-53.77	-25	-28.77	V
					7.466500	47.66	Pk	35.8	-95.2	-39.38	-51.12	-25	-26.12	H
					7.461500	47.27	Pk	35.8	-95.2	-39.36	-51.49	-25	-26.49	V
			Mid Ch 2489		1.584787	53.74	Pk	28.3	-95.2	-44.57	-57.73	-50	-7.73	H
					1.585194	53.60	Pk	28.3	-95.2	-44.57	-57.87	-50	-7.87	V
					4.977000	48.87	Pk	34.2	-95.2	-41.47	-53.60	-25	-28.60	H
					4.983000	48.68	Pk	34.2	-95.2	-41.45	-53.77	-25	-28.77	V
					7.466500	47.62	Pk	35.8	-95.2	-39.38	-51.16	-25	-26.16	H
					7.461500	47.27	Pk	35.8	-95.2	-39.36	-51.49	-25	-26.49	V
			High Ch 2490		1.584787	53.74	Pk	28.3	-95.2	-44.57	-57.73	-50	-7.73	H
					1.585194	53.60	Pk	28.3	-95.2	-44.57	-57.87	-50	-7.87	V
					4.996000	48.12	Pk	34.2	-95.2	-41.50	-54.38	-25	-29.38	H
					4.995000	48.68	Pk	34.2	-95.2	-41.50	-53.82	-25	-28.82	V
					7.495000	46.68	Pk	35.8	-95.2	-39.31	-52.03	-25	-27.03	H
					7.494500	48.34	Pk	35.8	-95.2	-39.31	-50.37	-25	-25.37	V
6/20/2026	19118	03-RDE-B	Low Ch 2488.5	1	1.574214	58.17	Pk	28.1	-95.2	-50.13	-59.06	-50	-9.06	H
					1.576654	58.39	Pk	28.2	-95.2	-50.15	-58.76	-50	-8.76	V
					4.980500	56.82	Pk	33.9	-95.2	-48.83	-53.31	-25	-28.31	H
					4.957000	56.52	Pk	33.8	-95.2	-48.87	-53.75	-25	-28.75	V
					7.449000	55.81	Pk	35.7	-95.2	-47.81	-51.50	-25	-26.50	H
					7.457500	55.70	Pk	35.7	-95.2	-47.74	-51.54	-25	-26.54	V
			Mid Ch 2489		1.596987	58.65	Pk	28.4	-95.2	-50.22	-58.37	-50	-8.37	H
					1.586007	59.70	Pk	28.2	-95.2	-50.18	-57.48	-50	-7.48	V
					4.950000	56.29	Pk	33.8	-95.2	-48.90	-54.01	-25	-29.01	H
					4.948500	56.98	Pk	33.8	-95.2	-48.93	-53.35	-25	-28.35	V
					7.441500	55.43	Pk	35.7	-95.2	-47.84	-51.91	-25	-26.91	H
					7.442500	55.77	Pk	35.7	-95.2	-47.84	-51.57	-25	-26.57	V
			High Ch 2490		1.602274	59.86	Pk	28.4	-95.2	-50.25	-57.19	-50	-7.19	H
					1.588854	60.67	Pk	28.3	-95.2	-50.20	-56.43	-50	-6.43	V
					4.965000	56.35	Pk	33.8	-95.2	-48.77	-53.82	-25	-28.82	H
					4.975500	56.59	Pk	33.9	-95.2	-48.81	-53.52	-25	-28.52	V
					7.448500	55.75	Pk	35.7	-95.2	-47.81	-51.56	-25	-26.56	H
					7.439000	56.06	Pk	35.7	-95.2	-47.86	-51.30	-25	-26.30	V

11. SETUP PHOTOS

Refer to 15982168-EP1 for setup photos.

END OF REPORT