

Element Materials Technology

(formerly PCTEST)

18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
http://www.element.com



MEASUREMENT REPORT PART 90

Applicant Name:Date of Testing:Apple Inc.7/1/2024 - 12/27/2024One Apple Park WayTest Report Issue Date:

Cupertino, CA 95014 1/21/2025

United States Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.: 1C2410210077-12-R1.BCG

FCC ID: BCGA3355

Applicant Name: Apple Inc.

Application Type:CertificationModel:A3355, A3356EUT Type:Tablet Device

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part: §2.1049, §90(S), §90(R)

Test Procedure(s): ANSI C63.26-2015, KDB 971168 D01 v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2410210077-12-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez

Executive Vice President





FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 1 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 1 01 106



TABLE OF CONTENTS

1.0	INTF	RODUCTION	4
	1.1	Scope	4
	1.2	Element Materials Technology Test Location	4
	1.3	Test Facility / Accreditations	4
2.0	PRC	DDUCT INFORMATION	5
	2.1	Equipment Description	5
	2.2	Device Capabilities	5
	2.3	Antenna Description	6
	2.4	Test Support Equipment	ε
	2.5	Test Configuration	ε
	2.6	Software and Firmware	6
	2.7	EMI Suppression Device(s)/Modifications	6
3.0	DES	SCRIPTION OF TESTS	7
	3.1	Evaluation Procedure	7
	3.2	Radiated Spurious Emissions	7
4.0	MEA	ASUREMENT UNCERTAINTY	8
5.0	TES	ST EQUIPMENT CALIBRATION DATA	g
6.0	SAM	MPLE CALCULATIONS	10
7.0	TES	ST RESULTS	11
	7.1	Summary	11
	7.2	Occupied Bandwidth	13
	7.3	Spurious and Harmonic Emissions at Antenna Terminal	37
	7.4	Band Edge Emissions at Antenna Terminal	63
	7.5	Conducted Power Output Data	79
	7.6	Radiated Power (ERP)	82
	7.7	Radiated Spurious Emissions	86
	7.8	Frequency Stability / Temperature Variation	101
8.0	CON	NCLUSION	106

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 2 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 2 01 100





PART 90 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		QPSK	814.7 - 823.3	Conducted	1.1116	0.369	25.67	1M11G7W
	1.4 MHz	16QAM	814.7 - 823.3	Conducted	1.1215	0.285	24.55	1M12D7W
	1.4 1/11 12	64QAM	814.7 - 823.3	Conducted	1.1049	0.234	23.70	1M10D7W
		256QAM	814.7 - 823.3	Conducted	1.1088	0.115	20.61	1M11D7W
		QPSK	815.5 - 822.5	Conducted	2.7306	0.372	25.70	2M73G7W
	3 MHz	16QAM	815.5 - 822.5	Conducted	2.7312	0.296	24.71	2M73D7W
	0 1711 12	64QAM	815.5 - 822.5	Conducted	2.7251	0.221	23.45	2M73D7W
LTE Band 26		256QAM	815.5 - 822.5	Conducted	2.7255	0.120	20.80	2M73D7W
LIL Bana 20		QPSK	816.5 - 821.5	Conducted	4.5467	0.372	25.70	4M55G7W
	5 MHz	16QAM	816.5 - 821.5	Conducted	4.5379	0.296	24.71	4M54D7W
	3 1011 12	64QAM	816.5 - 821.5	Conducted	4.5454	0.237	23.75	4M55D7W
		256QAM	816.5 - 821.5	Conducted	4.5393	0.119	20.75	4M54D7W
		QPSK	819.0	Conducted	9.0332	0.356	25.52	9M03G7W
	10 MHz	16QAM	819.0	Conducted	9.0386	0.279	24.46	9M04D7W
	1011112	64QAM	819.0	Conducted	9.0204	0.234	23.69	9M02D7W
		256QAM	819.0	Conducted	9.0182	0.117	20.67	9M02D7W
	5 MHz	QPSK	790.5 - 795.5	ERP	4.5540	0.211	23.25	4M55G7W
		16QAM	790.5 - 795.5	ERP	4.5763	0.166	22.21	4M58D7W
		64QAM	790.5 - 795.5	ERP	4.5459	0.132	21.21	4M55D7W
LTE Band 14		256QAM	790.5 - 795.5	ERP	4.5427	0.068	18.35	4M54D7W
	10 MHz	QPSK	793.0	ERP	9.0377	0.209	23.20	9M04G7W
		16QAM	793.0	ERP	9.0325	0.162	22.09	9M03D7W
		64QAM	793.0	ERP	9.0352	0.129	21.11	9M04D7W
		256QAM	793.0	ERP	9.0300	0.068	18.33	9M03D7W
	5 MHz	π/2 BPSK	790.5 - 795.5	ERP	4.4950	0.211	23.25	4M50G7W
		QPSK	790.5 - 795.5	ERP	4.4942	0.211	23.25	4M49G7W
		16QAM	790.5 - 795.5	ERP	4.4986	0.165	22.18	4M50D7W
		64QAM	790.5 - 795.5	ERP	4.4856	0.132	21.21	4M49D7W
NR Band n14		256QAM	790.5 - 795.5	ERP	4.4912	0.067	18.28	4M49D7W
		π/2 BPSK	793.0	ERP	8.9348	0.211	23.25	8M93G7W
		QPSK	793.0	ERP	9.2914	0.209	23.20	9M29G7W
	10 MHz	16QAM	793.0	ERP	9.2932	0.166	22.20	9M29D7W
		64QAM	793.0	ERP	9.3172	0.128	21.08	9M32D7W
		256QAM	793.0	ERP	9.3207	0.065	18.12	9M32D7W
		π/2 BPSK	816.5-821.5	Conducted	4.4669	0.368	25.66	4M47G7W
		QPSK	816.5-821.5	Conducted	4.4970	0.372	25.70	4M50G7W
	5 MHz	16QAM	816.5-821.5	Conducted	4.4777	0.294	24.69	4M48D7W
		64QAM	816.5-821.5	Conducted	4.4595	0.235	23.71	4M46D7W
NR Band n26		256QAM	816.5-821.5	Conducted	4.5010	0.118	20.73	4M50D7W
		π/2 BPSK	819.0	Conducted	8.9747	0.372	25.70	8M97G7W
		QPSK	819.0	Conducted	9.3190	0.360	25.56	9M32G7W
	10 MHz	16QAM	819.0	Conducted	9.2719	0.284	24.54	9M27D7W
		64QAM	819.0	Conducted	9.2538	0.234	23.70	9M25D7W
		256QAM	819.0	Conducted	9.3323	0.117	20.69	9M33D7W

EUT Overviews

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 3 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 3 of 100



1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology Morgan Hill facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Agreements (MRAs).

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 4 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 4 01 100



2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3355**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 90.

Test Device Serial No.: M323DRYF34, G52L73WFXX, LN9DXV6D7V, H9HHAF0006K0000VYP, H9HH8N0000N000VYR

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8)

This device supports BT Beamforming

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Simultaneous		Bluetooth 2.4GHz	WLAN	WIFI 5GHz		LTE/FR1 NR	
Antenna	Tx Config	BDR, EDR, HDR4/8, LE1/2M	802.11 b/g/n/ax	802.11 a/n/ac/ax	LB	МВ/НВ	Ultra High Band
Ant 3a	Config 1	✓	×	✓	×	✓	×
Ant 3a	Config 2	✓	*	✓	*	*	*
Ant 3a	Config 3	*	✓	*	*	✓	*
Ant 1a	Config 4	✓	*	*	*	*	✓
Ant 1a	Config 5	×	✓	×	*	*	√
Ant 1b	Config 6	×	×	✓	×	✓	×

Table 2-1. Simultaneous Transmission Configurations

√ = Support; × = Not Support

Note:

- All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 1 and reported in RF Bluetooth, RF UNII OFDM and RF FCC Part 27b test reports.
- Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz), in both connected and disconnected modes, and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5GHz on separate antenna.

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 5 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	raye 3 or 100



2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Band	Antenna Gain [dBi]		
Dallu	Antenna 4	Antenna 3b	
LTE Band 14	0.2	2.7	
NR Band n14	-0.3	-2.7	
LTE Band 26	0.0	4.5	
NR Band n26	-2.0	-1.5	

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-3. Test Support Equipment

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.6 Software and Firmware

The test was conducted with firmware version 22D8 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 6 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage o oi 100



3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the documents titled "American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services" (ANSI C63.26-2015 and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure......None

3.2 Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

 $E_{[dB\mu V/m]} = Measured \ amplitude \ level_{[dBm]} + 107 + Cable \ Loss_{[dB]} + Antenna \ Factor_{[dB/m]} \ And$ $EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20logD - 104.8; \ where \ D \ is the \ measurement \ distance \ in \ meters.$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015.

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 7 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage / or 100



4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	2.07
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz-1GHz)	4.85
Radiated Disturbance (1-18GHz)	5.08

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 8 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage o or 100



5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	M2CP1122-10	RF Directional Coupler *	6/10/2024	Annual	6/10/2025	1946
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	7/5/2024	Annual	7/5/2025	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	3/1/2024	Annual	3/1/2025	102143
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/27/2023	Annual	12/27/2024	164715
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

Table 5-1. Test Equipment List

Notes:

- 1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- * Denotes passive equipment that have been internally verified/calibrated.

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 9 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 9 01 100



6.0 SAMPLE CALCULATIONS

Emission Designator

π/2 BPSK / QPSK Modulation

Emission Designator = 8M62G7W BW = 8.62 MHz G = Phase Modulation 7 = Quantized/Digital Info W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W BW = 8.45 MHz D = Amplitude/Angle Modulated 7 = Quantized/Digital Info W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 10 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 10 01 100



7.0 TEST RESULTS

7.1 Summary

Company Name: <u>Apple Inc.</u>

FCC ID: BCGA3355

FCC Classification: PCS Licensed Transmitter (PCB)

Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
	Occupied Bandw idth	2.1049	WA	N/A	Section 7.2
	Conducted Band Edge / Spurious Emissions (LTE Band 14)	2.1051, 90.543(e),	On all frequencies betw een 769-775 MHz and 799-805 MHz, attenuation by a factor not less than 65 + 10 log(P) dB in a 6.25 kHz band segment, for mobile and portable stations.	PASS	Sections
	Conducted Band Edge / Spurious Emissions (NR Band n14)	90.543(f)	On any frequency betw een 775-788 MHz, above 805 MHz, and below 758 MHz, attenuation by at least 43 + 10 log(P) dB		7.3, 7.4
	Conducted Band Edge / Spurious Emissions (LTE Band 26)	2.1051, 90.691(a)	-13 dBm for all out-of-band emissions except -30 dBm at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Sections 7.3, 7.4
CONDUCTED Frequency Stability (LTE Band 14) Frequency Stability (LTE Band 26)		2.1055	Fundamental emissions stay w ithin authorized frequency block over the temperature and voltage range as tested.	PASS	Section 7.8
		90.213	< 2.5 ppm	PASS	Section 7.8
	Conducted Pow er	2.1046, 90.635	< 100 Watts	PASS	Section 7.5
	Effective Radiated Power (LTE Band 14)	90.542(a)(7)	< 3 Watts max. ERP	PASS	Section 7.6
	Effective Radiated Pow er (NR Band n14)	30.342(a)(1)	Co watts max. Liv	PASS	Section 7.6
	Effective Radiated Power (LTE Band 26)	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.6
RADIATED	Radiated Spurious Emissions (LTE Band 14)	2.1053, 90.543(e),	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n14)	90.543(f)	except emissions in the 1559 - 1610MHz band are subject to a limit of -40dBm/MHz for wideband signals	PASS	Section 7.7
	Radiated Spurious Emissions (LTE Band 26)	2.1053, 90.691(a)	-13 dBm for all out-of-band emissions except -30 dBm at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Section 7.7

Table 7-1. Summary of Test Results

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 11 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage II of 100



Notes:

- 1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- The analyzer plots shown in Section 7.0 were taken with a correction table loaded into the analyzer.
 The correction table was used to account for the losses of the cables, directional couplers, and
 attenuators used as part of the system to maintain a link between the call box and the EUT at all
 frequencies of interest.
- 3. All antenna ports conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element EMC Software Tool v1.1.
- 5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.1.0.
- 6. All ports were investigated and for some test cases only the worst case data was reported.

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 12 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 12 01 100



7.2 Occupied Bandwidth §2.1049

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation and all ports were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 13 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 13 of 106



Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

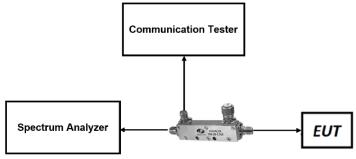


Figure 7-1. LTE Test Instrument & Measurement Setup

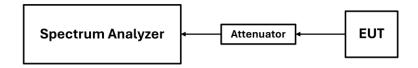


Figure 7-2. FR1 Test Instrument & Measurement Setup

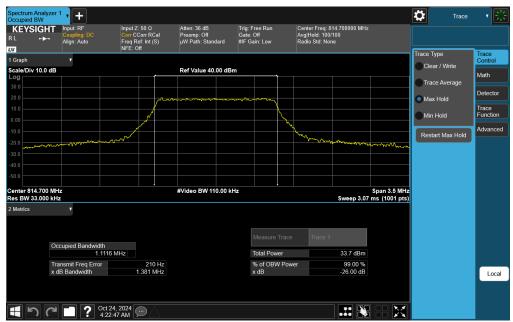
Test Notes

None.

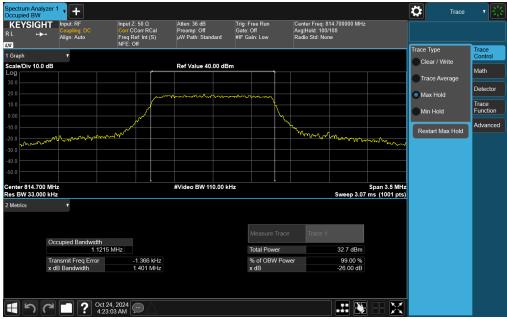
FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 14 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 14 01 100



LTE Band 26



Plot 7-1. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz QPSK - Full RB)



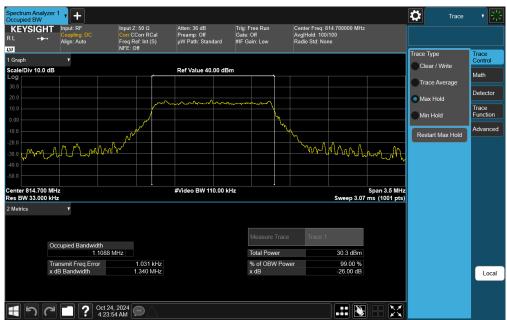
Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 15 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 13 of 100





Plot 7-3. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 64-QAM - Full RB)



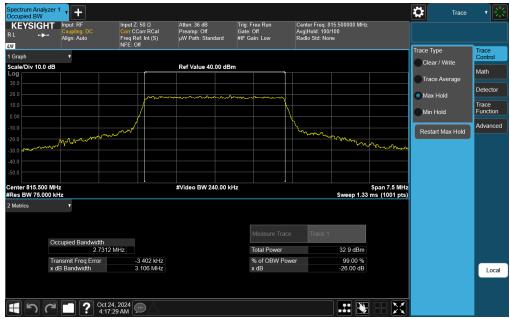
Plot 7-4. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 16 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 16 01 106





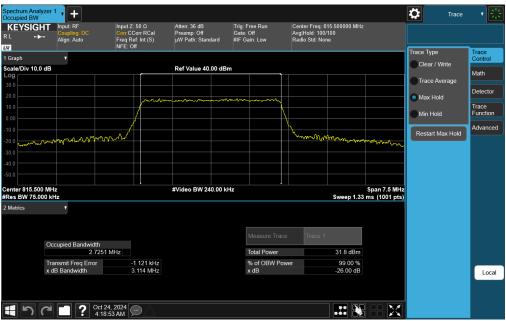
Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK - Full RB)



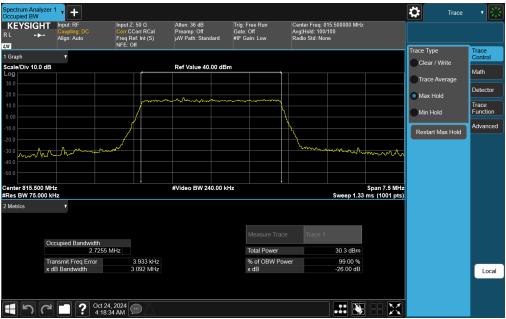
Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 17 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 17 of 100





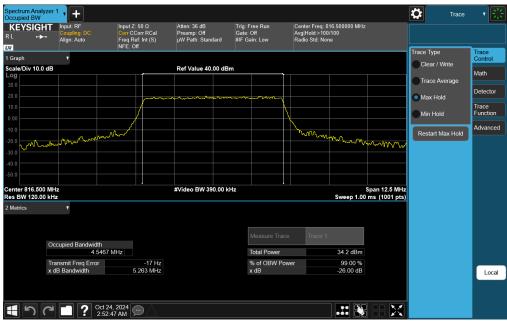
Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 64-QAM - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 256-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 18 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage to of 100





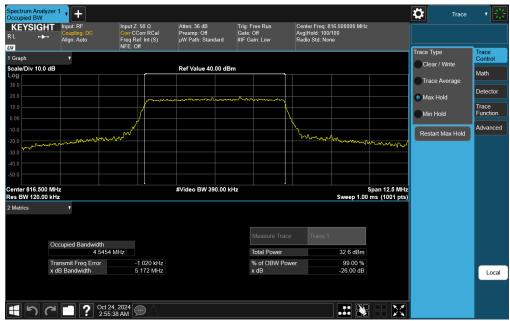
Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK - Full RB)



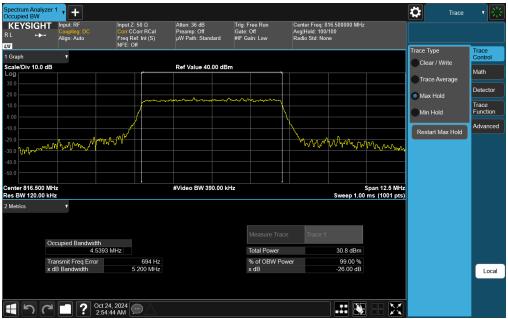
Plot 7-10. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 19 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 19 01 100





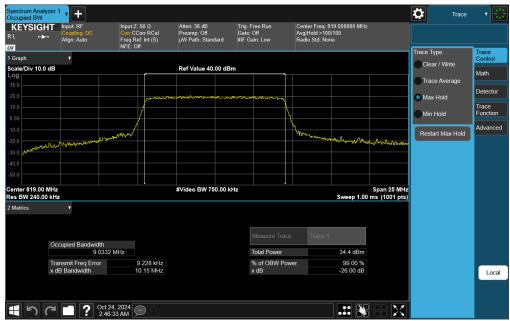
Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 64-QAM - Full RB)



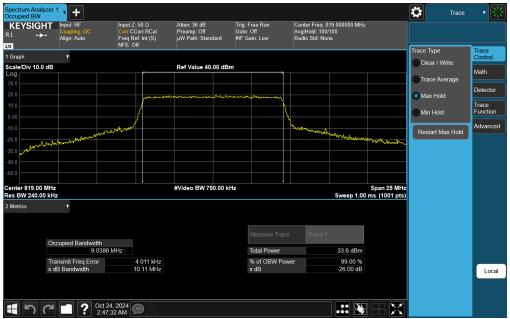
Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 20 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 20 01 100





Plot 7-13. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)



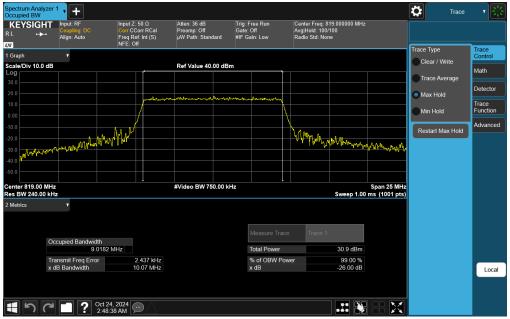
Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 21 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 21 01 106





Plot 7-15. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 64-QAM - Full RB)

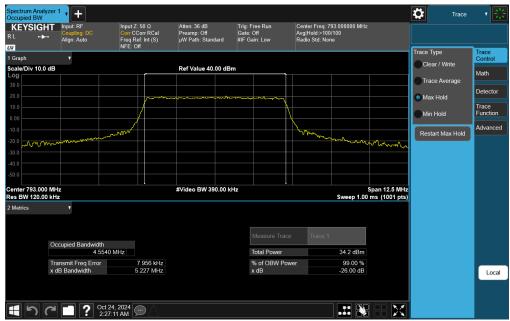


Plot 7-16. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 256-QAM - Full RB)

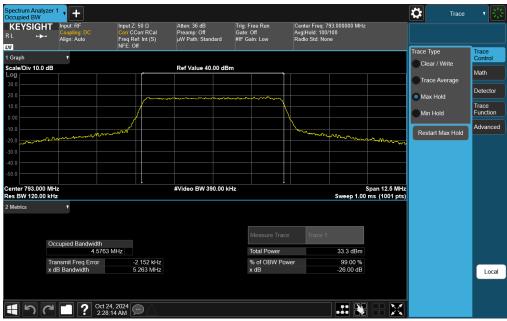
FCC ID: BCGA3355	element	element Part 90 Measurement report	
Test Report S/N:	Test Dates:	EUT Type:	Page 22 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 22 01 100



LTE Band 14



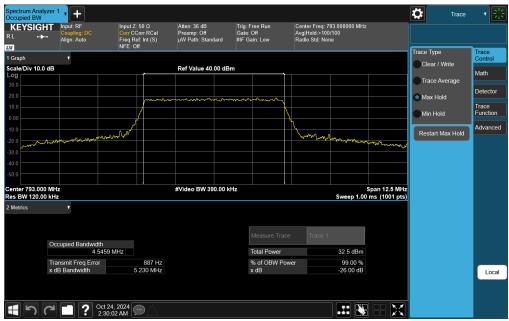
Plot 7-17. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



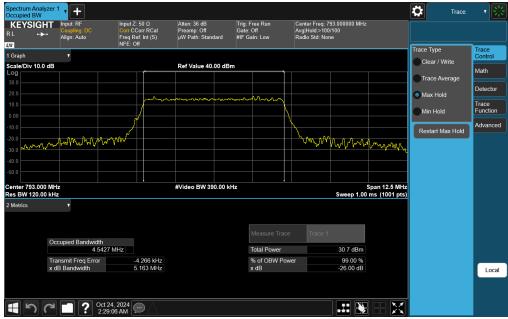
Plot 7-18. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 23 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Faye 23 01 100





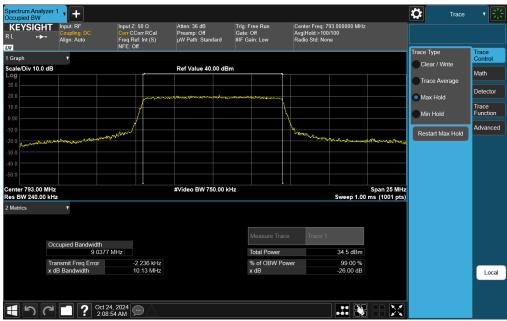
Plot 7-19. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 64-QAM - Full RB)



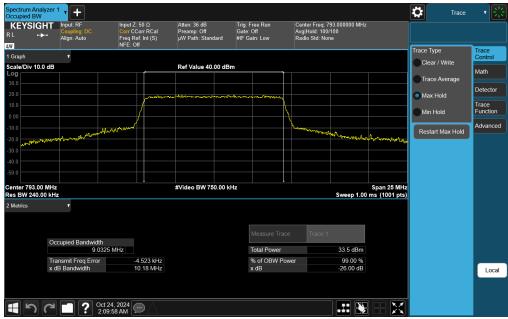
Plot 7-20. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 24 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 24 01 100





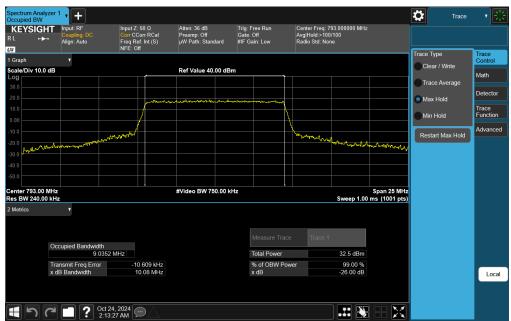
Plot 7-21. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)



Plot 7-22. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 25 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 25 01 100





Plot 7-23. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 64-QAM - Full RB)

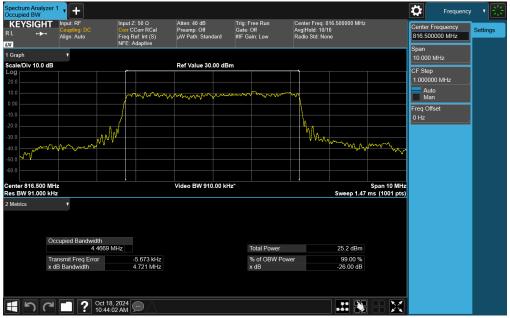


Plot 7-24. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 26 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 20 01 100



NR Band n26



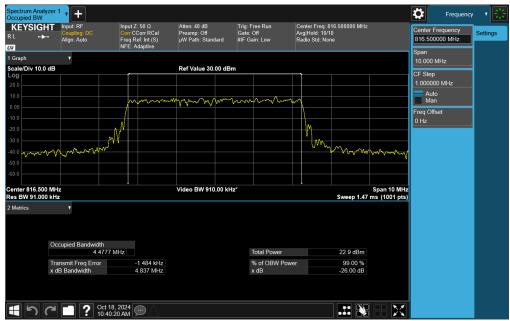
Plot 7-25. Occupied Bandwidth Plot (NR Band 26 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-26. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 27 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Faye 21 01 100





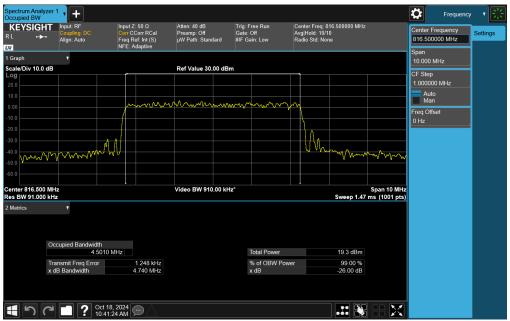
Plot 7-27. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM 16-QAM - Full RB)



Plot 7-28. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3355	element	element Part 90 Measurement report	
Test Report S/N:	Test Dates:	EUT Type:	Page 28 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 28 01 100





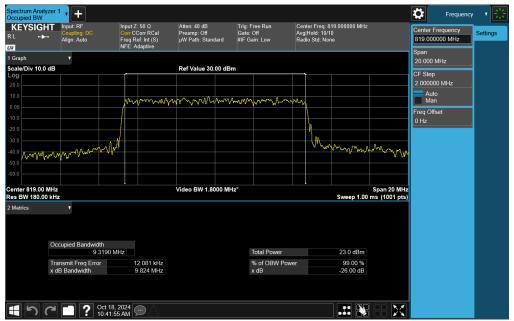
Plot 7-29. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM 256-QAM - Full RB)



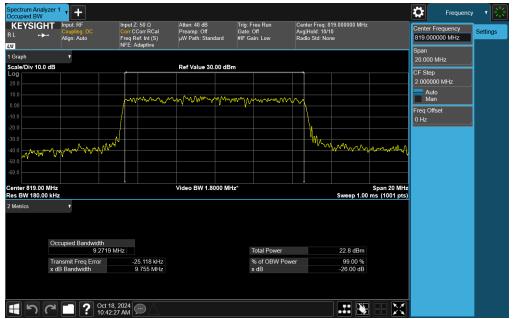
Plot 7-30. Occupied Bandwidth Plot (NR Band 26 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 29 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 29 01 100





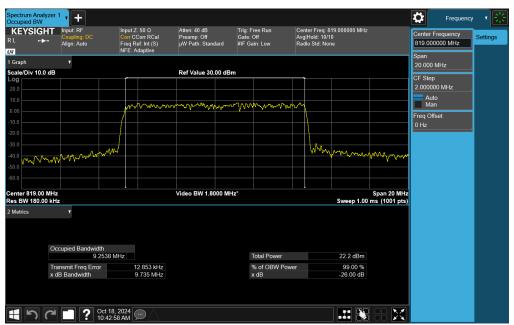
Plot 7-31. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM QPSK - Full RB)



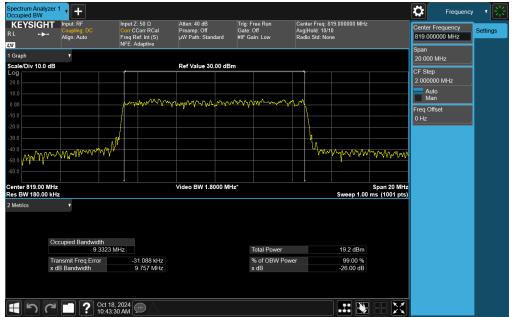
Plot 7-32. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA3355	element	element Part 90 Measurement report	
Test Report S/N:	Test Dates:	EUT Type:	Page 30 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 30 01 100





Plot 7-33. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 64-QAM - Full RB)



Plot 7-34. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 256-QAM - Full RB)

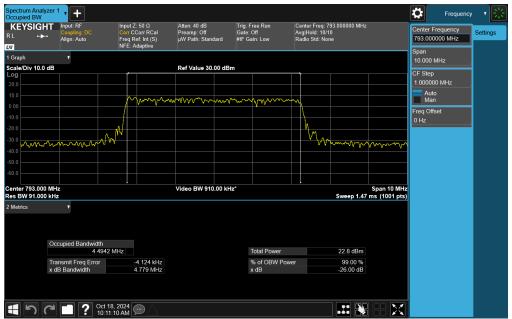
FCC ID: BCGA3355	element)	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 31 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	l age 31 01 100



NR Band n14



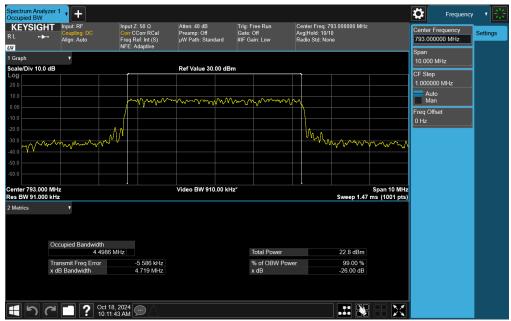
Plot 7-35. Occupied Bandwidth Plot (NR Band 14 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB)



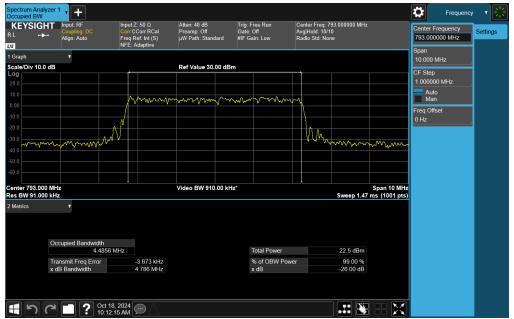
Plot 7-36. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 32 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 32 01 106





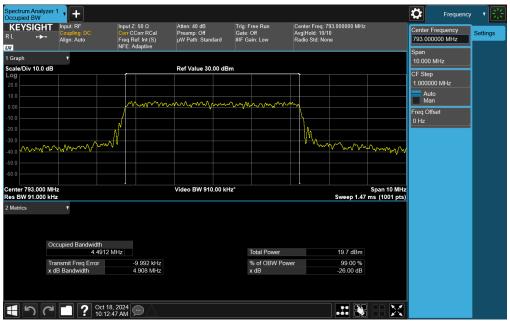
Plot 7-37. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM 16-QAM - Full RB)



Plot 7-38. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 33 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 33 01 100





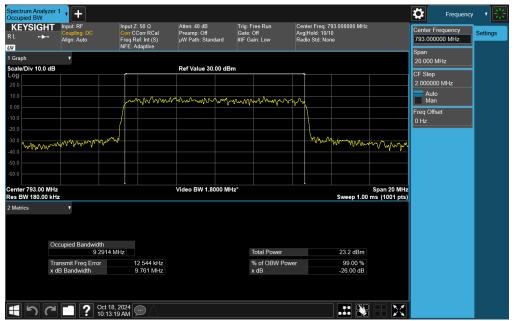
Plot 7-39. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM 256-QAM - Full RB)



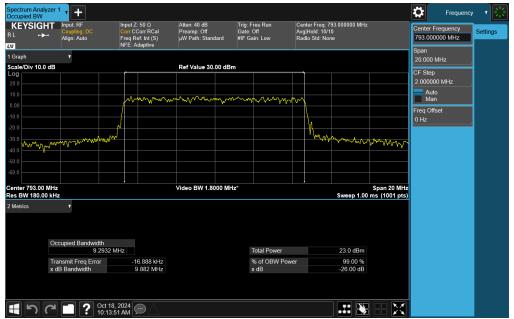
Plot 7-40. Occupied Bandwidth Plot (NR Band 14 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA3355	element	element Part 90 Measurement Report	
Test Report S/N:	Test Dates:	EUT Type:	Page 34 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 34 01 100





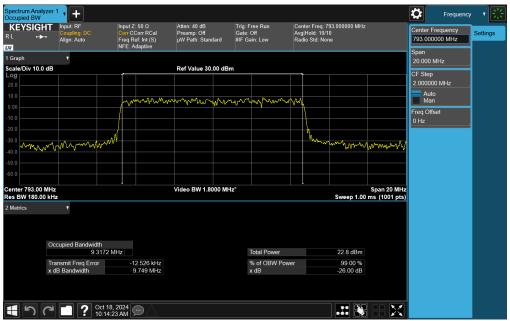
Plot 7-41. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM QPSK - Full RB)



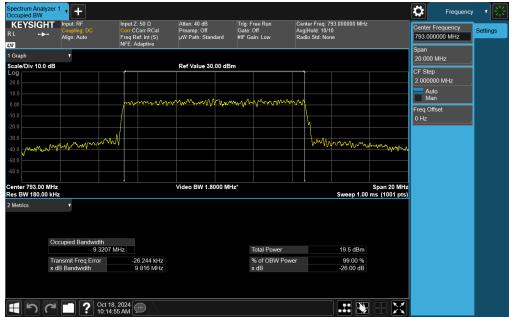
Plot 7-42. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA3355	element	element Part 90 Measurement Report	
Test Report S/N:	Test Dates:	EUT Type:	Page 35 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 35 01 106





Plot 7-43. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 64-QAM - Full RB)



Plot 7-44. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3355	element	element Part 90 Measurement report	
Test Report S/N:	Test Dates:	EUT Type:	Page 36 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 36 01 106



7.3 Spurious and Harmonic Emissions at Antenna Terminal §2.1051 §90.691(a) §90.543(e) §90.543(f)

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation and all ports were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + 10 $log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. RBW ≥ 100kHz
- 3. VBW \geq 3 x RBW
- 4. Detector = RMS
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 37 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 37 of 100



Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

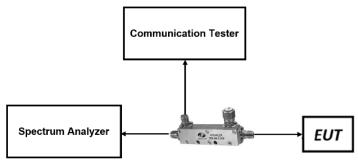


Figure 7-3. LTE Test Instrument & Measurement Setup

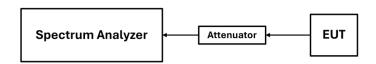


Figure 7-4. FR1 Test Instrument & Measurement Setup

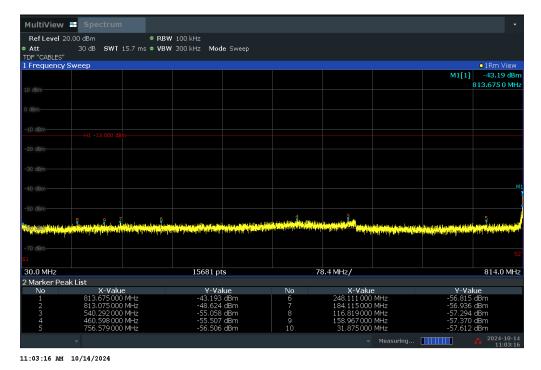
Test Notes

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 90. 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. 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 emission are attenuated at least 26 dB below the transmitter power.

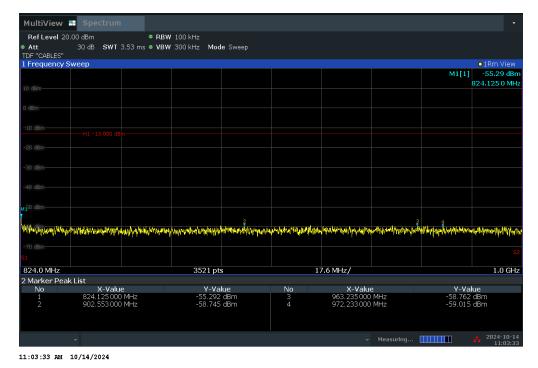
FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 38 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 30 of 100



LTE Band 26



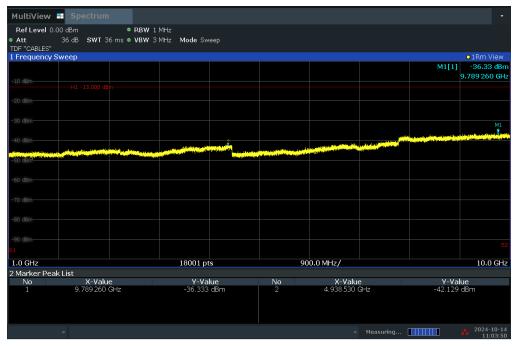
Plot 7-45. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-46. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

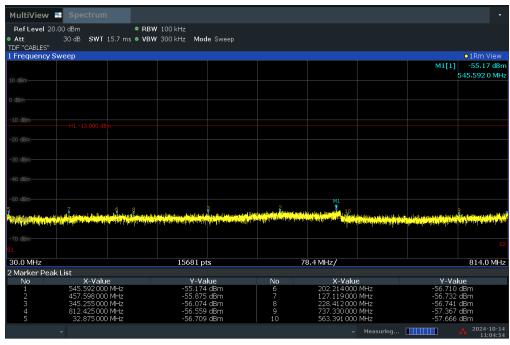
FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 39 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 39 01 100





11:03:51 AM 10/14/2024

Plot 7-47. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

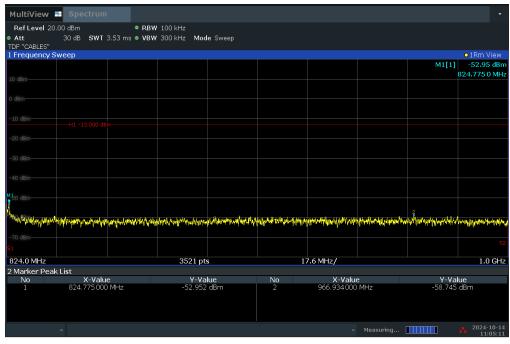


11:04:55 AM 10/14/2024

Plot 7-48. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

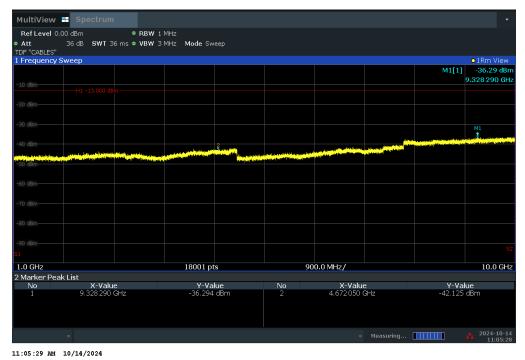
FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 40 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 40 01 100





11:05:12 AM 10/14/2024

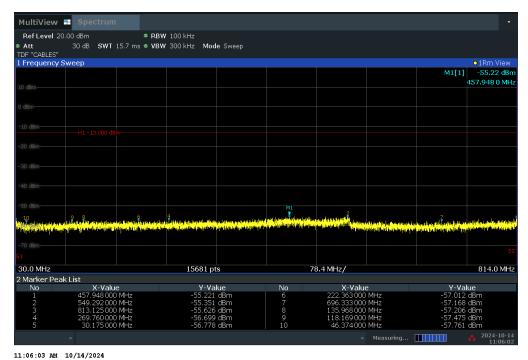
Plot 7-49. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



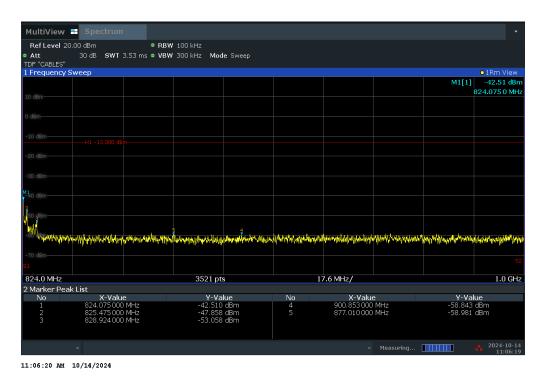
Plot 7-50. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 41 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 41 of 106





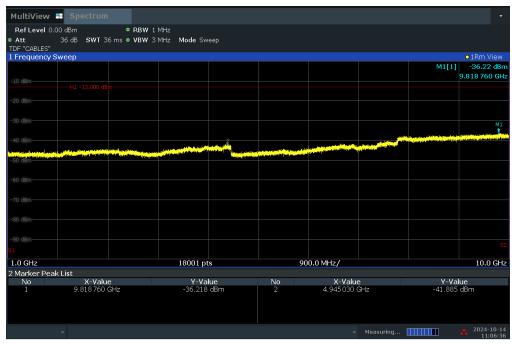
Plot 7-51. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-52. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 42 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 42 01 100





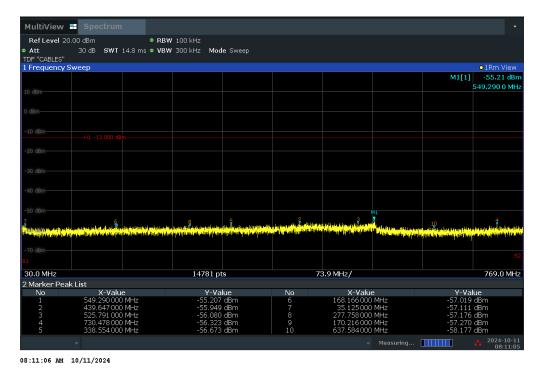
11:06:37 AM 10/14/2024

Plot 7-53. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 43 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 45 01 100



LTE Band 14



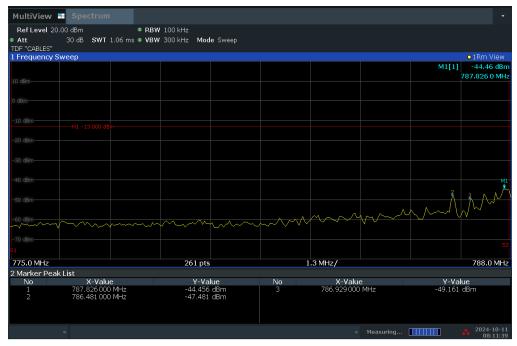
Plot 7-54. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-55. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 44 01 100





08:11:40 AM 10/11/2024

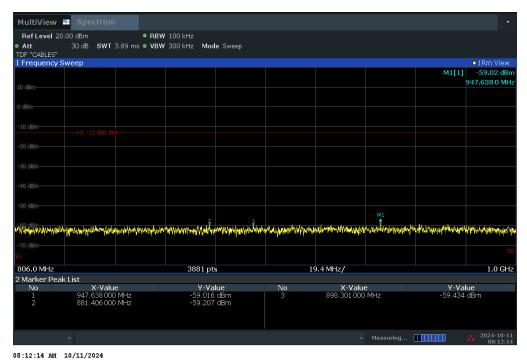
Plot 7-56. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



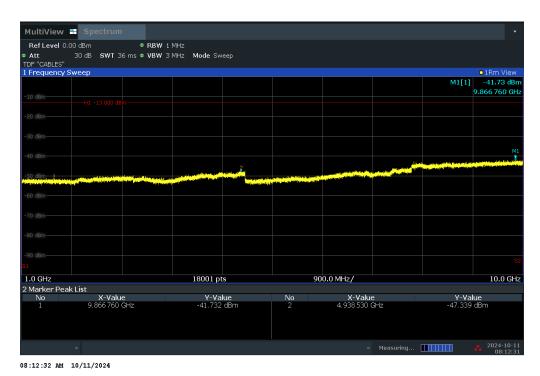
Plot 7-57. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 45 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	rage 45 01 100





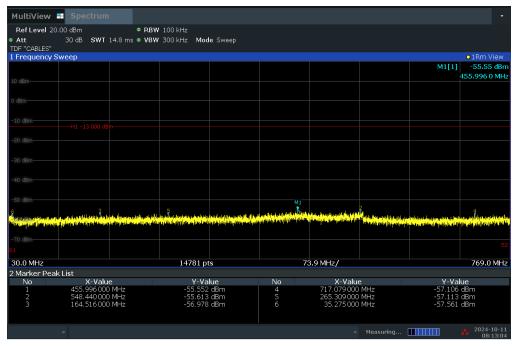
Plot 7-58. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-59. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 46 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 46 of 106





08:13:05 AM 10/11/2024

Plot 7-60. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

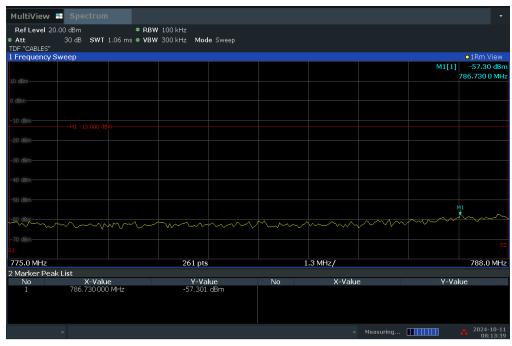


08:13:22 AM 10/11/2024

Plot 7-61. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

·			
FCC ID: BCGA3355	element)	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 47 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 47 01 100





08:13:40 AM 10/11/2024

Plot 7-62. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

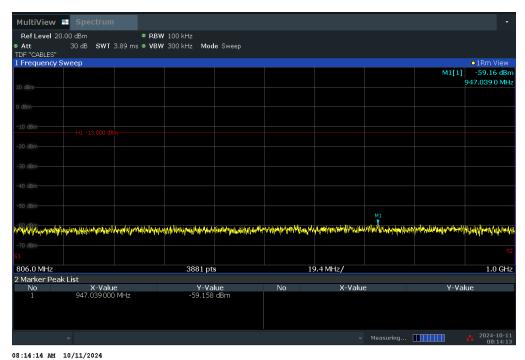


08:13:57 AM 10/11/2024

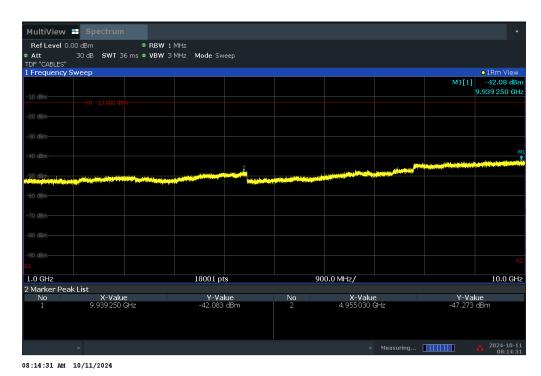
Plot 7-63. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 48 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	





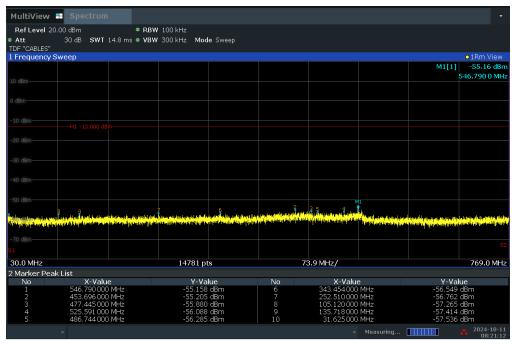
Plot 7-64. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-65. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 49 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 49 01 106





08:21:13 AM 10/11/2024

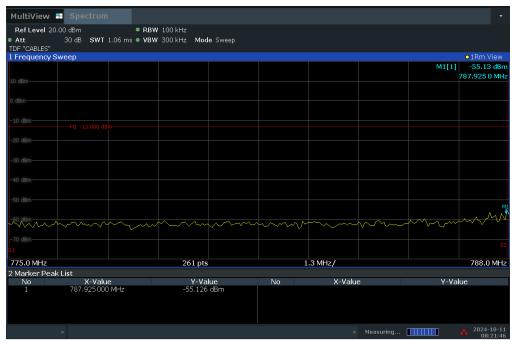
Plot 7-66. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-67. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

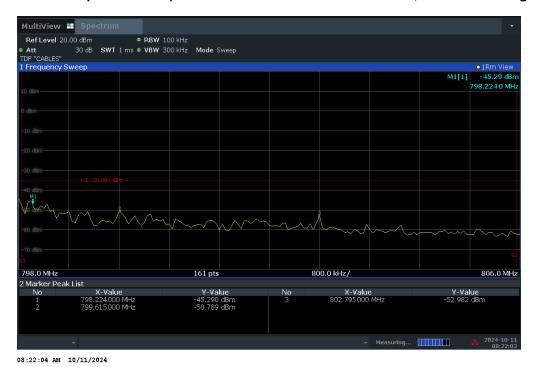
FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 50 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 50 of 106





08:21:47 AM 10/11/2024

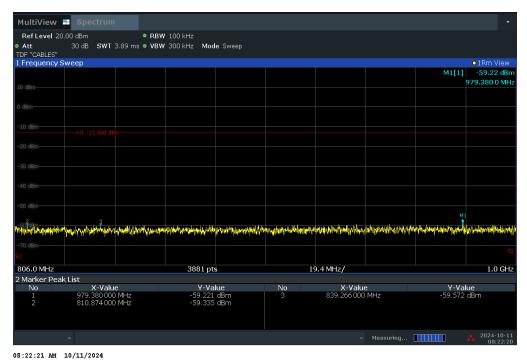
Plot 7-68. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



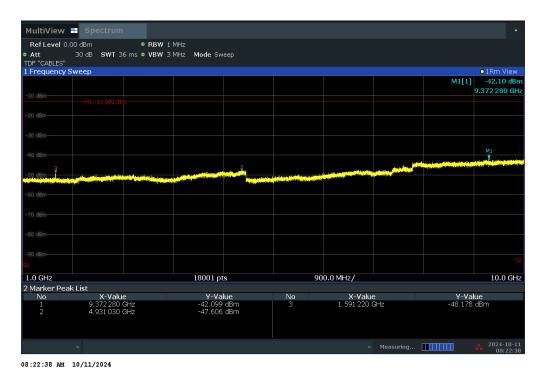
Plot 7-69. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 51 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Page 51 01 106





Plot 7-70. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

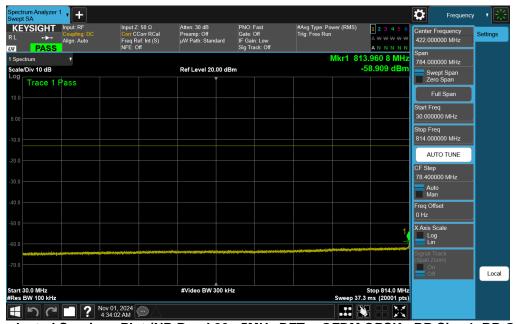


Plot 7-71. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 52 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 52 01 106



NR Band 26



Plot 7-72. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-73. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3355	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 53 of 106
1C2410210077-12-R1.BCG	7/1/2024 - 12/27/2024	Tablet Device	Fage 33 01 100