



SPOT CHECK TEST REPORT

Report Number: 15496278-E1V1

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

Model : A3519, A3520, A3521

Brand : APPLE

FCC ID : BCG-E8951A, BCG-E8952A, BCG-E8953A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90,
and Part 96

Date Of Issue:
2025-08-05

Prepared by:
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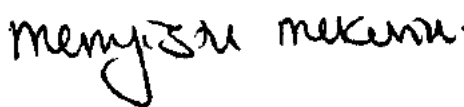
Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-08-05	Initial Review	--

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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	A3519, A3520, A3521	
Brand	APPLE	
FCC ID	BCG-E8951A, BCG-E8952A, BCG-E8953A	
EUT Description	SMARTPHONE	
Serial Number	MODEL (AA3519): (Conducted) J6HHG0003H0000YAU, (Radiated) KVMK6P4199 MODEL (AA3520): (Conducted) J6HHH6000S80000YAT, (Radiated) H29LPXH9JN MODEL (AA3521): (Conducted) J6HHH2000QJ0000YAV, (Radiated) DJ061P79N7	
Sample Receipt Date	2025-05-13	
Date Tested	2025-06-07 to 2025-07-12	
Applicable Standards	FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90, and Part 96	
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 Verification Services Inc.	Tewodros Woldemichael Laboratory Engineer UL Verification Services Inc.	Michael Vang Laboratory Engineer UL Verification Services Inc.

2. TEST METHODOLOGY

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

- ANSI C63.26:2015
- FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90, and Part 96
- [FCC KDB 971168 D01 v03r01](#): Power Meas License Digital Systems
- [FCC KDB 971168 D02 v02r01](#): Misc Rev Approv License Devices
- [FCC KDB 484596 D01 03](#): Referencing Test Data

3. 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			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. 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.

4.2. 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.)

4.3. 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 Peak 1.300 db Ave.
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%.

4.4. 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

5. INTRODUCTION OF TEST DATA REUSE

5.1. DESCRIPTION OF EUT

“The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.”

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC

5.2. INTRODUCTION

This application for certification is leveraging the data reuse procedures from KDB 484596 D01 based on reference FCC ID: BCG-E8950A to cover variant models FCC ID: BCG-E8960A, FCC ID BCG-E8961A, and FCC ID BCG-E8962A. The major difference between the parent/reference model and the variant model is the depopulation of some LTE and 5G NR Bands. All other circuitry and features are identical. The data reuse test plan was approved via manufacturer KDB inquiry.

5.3. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3258, A3519, A3520, and A3521.

These models are highly similar, with the only difference being the supported cellular bands.

Model	FCC ID	Feature Difference	Sim Support	Reference Model
A3258	BCG-E8947A	With FR2 -No B11/21 No UL MIMO	eSIM	Reference
A3519	579C-E8951A	without FR2 - Added B11/21 No UL MIMO	eSIM	A3258
A3520	579C-E8952A	without FR2 - No B14, B29, B71, B11/21 No UL MIMO	eSIM + pSIM	
A3521	579C-E8953A	Without FR2 -No B11/21, B14, B29, B53, and B71 No UL MIMO No MSS	eSIM + pSIM	

Note: They have the same PCB layout, design, common components, antennas, antenna locations and housing cases.

More specifically, their cellular modem, Wi-Fi, BT, NFC, WPT and UWB transmitters are identical, and removal of cellular bands is done by software and depopulation of band-specific components associated with the removed bands.

Spot check verification has been done on models A3519, A3520 and A3521 in accordance with the test plan approved via KDB inquiry. Spot checks were performed for conducted output power in all bands and radiated spurious emissions on selected bands representing bands below 1GHz, in the range 1 - 2GHz, in the range 2 - 3GHz and above 3GHz. For data referencing the criteria from KDB 484596 D01 v03 equation (4).

For EMC compliance test data (e.g., spurious emissions limits), the deviation between the variant and the parent model, for both field and power quantities, is expressed as:

$$d_{dB} = |V_{dB} - R_{dB}| \quad (1),$$

where V_{dB} is the variant spot-check level in dB, and R_{dB} is the corresponding reference measurement level in dB for the parent model.

The spot-check will be deemed acceptable when:

$$d_{dB} \leq d_{dBmax} \quad (2),$$

where d_{dBmax} is the maximum deviation d_{dB} allowed for the EMC data for the spot-check to be considered acceptable. The definition of d_{dBmax} is based on “how far” the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the test under consideration. More specifically, if M_{dB} is the margin in dB from the compliance limit, expressed as

$$M_{dB} = |C_{dB} - R_{dB}| \quad (3),$$

then d_{dBmax} is defined as a function of M_{dB} , which increases linearly from 3 dB to 6 dB (Fig. 2), according to:

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4).$$

The meaning of eq. (4) can be expressed as follows:

- For $M_{dB} = 0$ dB, then $d_{dB} \leq 3$ dB: $M_{dB} = 0$ dB $\Rightarrow R_{dB} = C_{dB}$, which represents the limiting case when R_{dB} is exactly at the compliance threshold C_{dB} ; according to (4) the variant level V_{dB} cannot be more than 3 dB away from the reference level R_{dB} , but in this case, it can only be lower than R_{dB} . Any value greater than R_{dB} would be out of compliance since $R_{dB} = C_{dB}$.
- As the compliance margin M_{dB} becomes larger than 0, a more “forgiving” d_{dB} (larger than 3 dB but always less than 6dB) is allowed. Additionally, the variant level V_{dB} can exceed the reference level R_{dB} , but it will still be limited by the compliance level C_{dB} .
- For $M_{dB} > 60$ dB, then $d_{dB} = 6$ dB: Here, the reference data is 60 dB below the compliance threshold C_{dB} . This is typically the case when the measurements are approaching the noise floor level. For this reason, the difference d_{dB} is allowed to be up to 6 dB. However, no further increase beyond $d_{dB} = 6$ dB, is allowed, even for larger margins. In other words, even if $M_{dB} = 80$ dB, the maximum allowed difference d_{dB} will still be 6 dB.

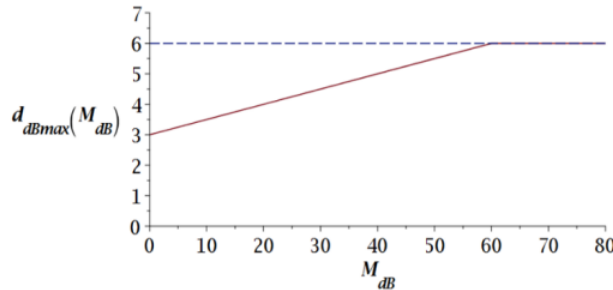


Figure 2. The piecewise linear function for d_{dBmax} , which represents the maximum allowed d_{dB} , as given by eq. (4). The spot-check is acceptable when the deviation d_{dB} is below the d_{dBmax} curve.

5.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3519

5.4.1. A3258 AND A3519 ANTENNA DATA

A3519 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3519	Delta (dB)	Remarks
			Frequency MHz	FCC ID :BCG-E8947A (dBm)	FCC ID: BCG-E8951A (dBm)		
GSM	GPRS 850	Cond Power	836.6	33.00	33.00	0.00	
	GPRS 1900	Cond Power	1909.8	32.00	32.00	0.00	
WCDMA	REL99 B5	Cond Power	836.5	25.70	25.70	0.00	
	REL99 B2	Cond Power	1880.0	25.70	25.70	0.00	
	REL99 B4	Cond Power	1732.5	25.70	25.70	0.00	

A3519 Spot Check Results							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3519	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8951A (dBm)		
LTE 5CA	QPSK @ 10MHz+10MHz BW	Cond Power	831.5/841.4	25.70	25.70	0.00	
LTE 7CA	QPSK @ 20MHz+20MHz BW	Cond Power	2525.1/2544.9	25.70	25.70	0.00	
LTE 41CA	QPSK @ 20MHz+20MHz BW	Cond Power	2583.1/2602.9	28.70	28.45	-0.25	
LTE 48CA	QPSK @ 20MHz+20MHz BW	Cond Power	3615.1/3634.9	25.00	25.00	0.00	

A3519 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3519	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8951A (dBm)		
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2535.0	25.70	25.70	0.0	
5G NR BAND N7	BPSK @ 50 MHz BW	Cond Power	2535.0	25.70	25.70	0.0	
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	707.5	25.70	25.70	0.0	
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0.0	
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782.0	25.70	25.70	0.0	
LTE BAND 14	QPSK @ 10 MHz BW	Cond Power	793.0	25.70	25.70	0.0	
5G NR BAND N14	BPSK @ 10 MHz BW	Cond Power	793.0	25.70	25.70	0.0	
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710.0	25.70	25.70	0.0	
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1882.5	25.70	25.70	0.0	
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0.0	
LTE BAND 26 (90S)	QPSK @ 10 MHz BW	Cond Power	819.0	25.70	25.70	0.0	
5G NR BAND N26 (90S)	BPSK @ 10 MHz BW	Cond Power	819.0	25.70	25.70	0.0	
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0.0	
5G NR BAND N26 (P22)	BPSK @ 20 MHz BW	Cond Power	836.5	25.70	25.70	0.0	
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310.0	25.70	25.70	0.0	
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310.0	25.20	25.20	0.0	
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593.0	28.63	28.61	0.0	
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593.0	28.70	28.70	0.0	
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3620.0	26.00	26.00	0.0	
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3620.0	26.00	26.00	0.0	
LTE BAND 53	QPSK @ 10 MHz BW	Cond Power	2489.0	20.70	20.70	0.0	
5G NR BAND N53	BPSK @ 10 MHz BW	Cond Power	2489.0	20.70	20.70	0.0	
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745.0	25.70	25.70	0.0	
5G NR BAND N66	BPSK @ 45 MHz BW	Cond Power	1745.0	25.70	25.70	0.0	
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0.0	
LTE BAND 71	QPSK @ 20 MHz BW	Cond Power	683.0	25.70	25.70	0.0	
5G NR BAND n71	BPSK @ 20 MHz BW	Cond Power	683.0	25.70	25.70	0.0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500.0	28.70	28.70	0.0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840.0	28.70	28.70	0.0	

A3519 RADIATED SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3519	Delta (dB)	Margin (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8951A (dBm)		M(dB)=C(dB)-R(dB)	
LTE BAND 7	QPSK @ highest BW	RSE	2535.0	-50.79	-47.84	2.95	25.79	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-51.19	-49.85	1.34	38.19	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-45.52	-52.54	-7.02	32.52	Note 3
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3620.0	-50.40	-49.73	0.67	10.4	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

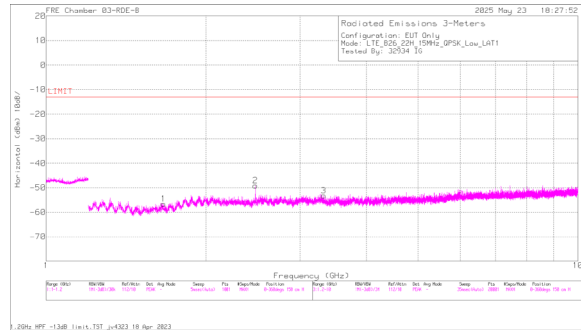
Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary.Full set of measurements performed.

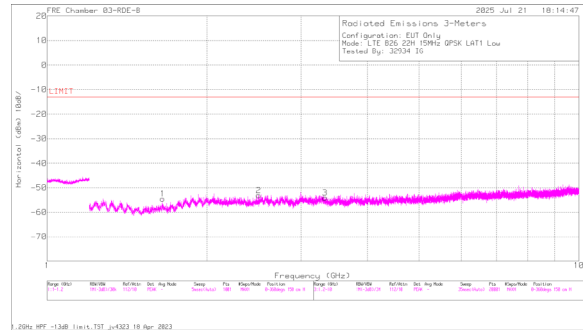
5.4.2. A3258 AND A3519 BAND 26 (PART 22) RADIATED PLOTS AND DATA

Full tests are performed on variant models.

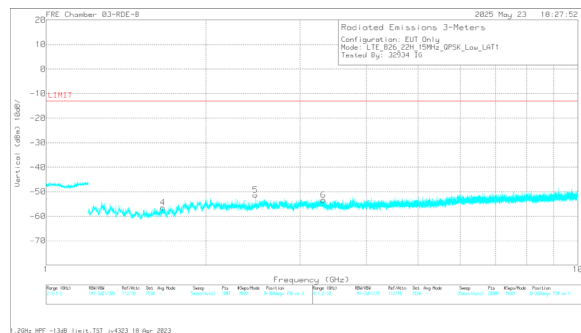
BAND 26 (PART 22) PLOTS



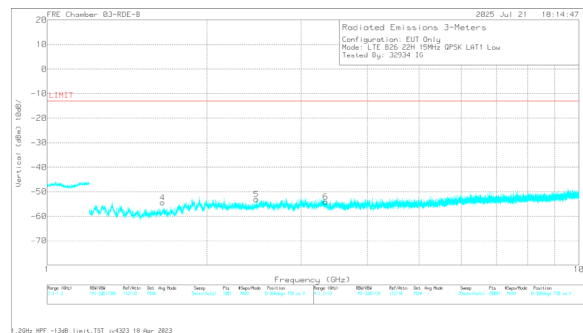
A3258 LTE B26 QPSK Low Channel Horizontal



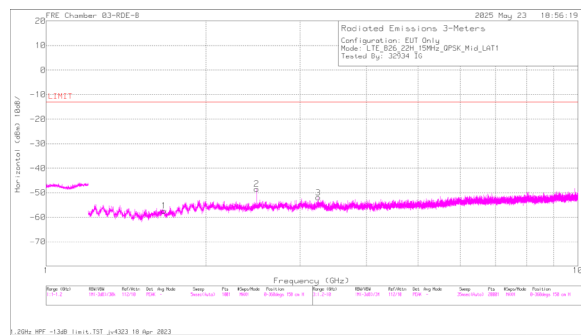
A3519 LTE B26 QPSK Low Channel Horizontal



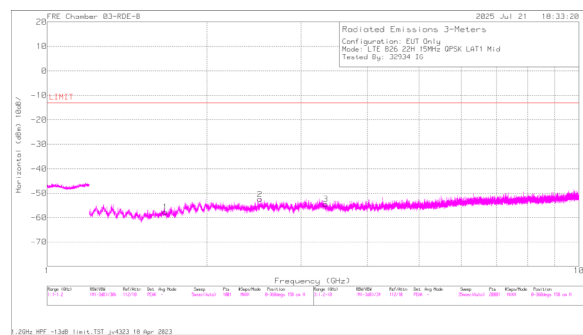
A3258 LTE B26 QPSK Low Channel Vertical



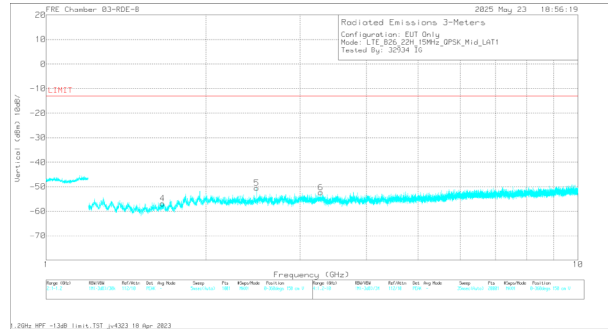
A3519 LTE B26 QPSK Low Channel Vertical



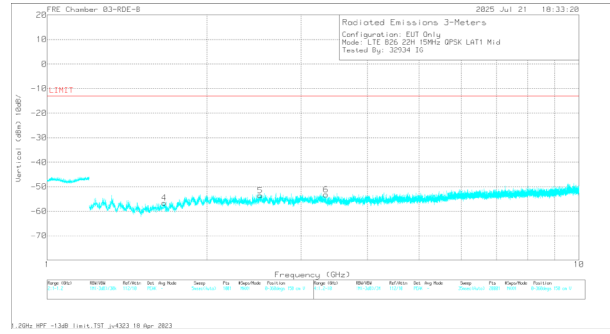
A3258 LTE B26 QPSK Mid Channel Horizontal



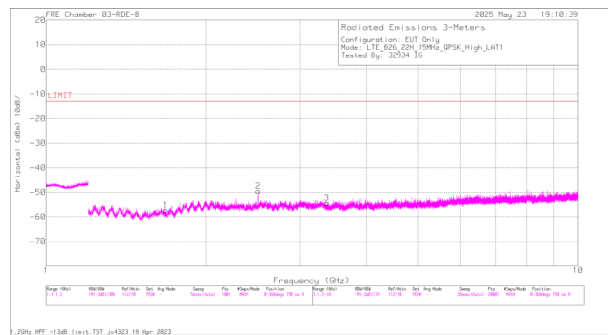
A3519 LTE B26 QPSK Middle Channel Horizontal



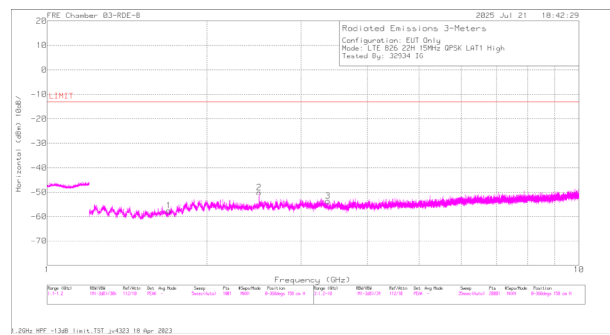
A3258 LTE B26 QPSK Mid Channel Vertical



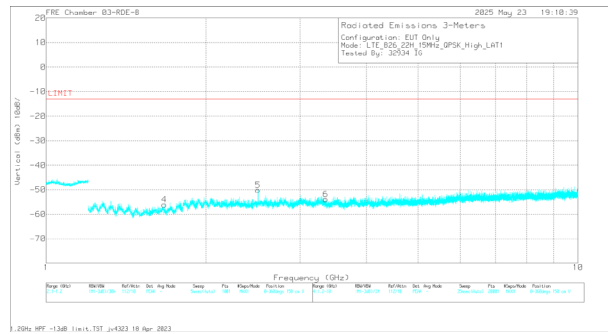
A3519 LTE B26 QPSK Middle Channel Vertical



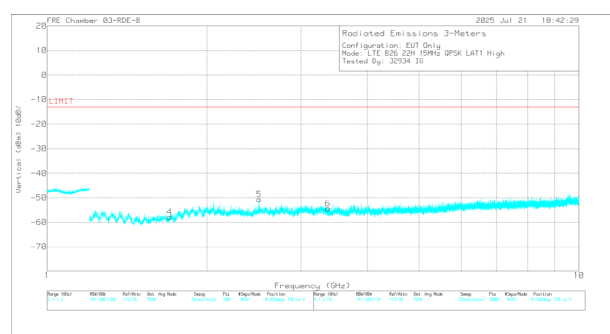
A3258 LTE B26 QPSK High Channel Horizontal



A3519 LTE B26 QPSK High Channel Horizontal



A3258 LTE B26 QPSK High Channel Vertical



A3519 LTE B26 QPSK High Channel Vertical

A3258, LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496277
Date:	2025-05-23
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B26 22H 10MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 829MHz									
1.658480	59.12	Pk	29.0	-95.2	-49.40	-56.48	-13	-43.48	V
1.662440	59.08	Pk	29.0	-95.2	-49.44	-56.56	-13	-43.56	H
2.474573	66.30	Pk	31.9	-95.2	-50.16	-47.16	-13	-34.16	V
2.474700	68.15	Pk	31.9	-95.2	-50.17	-45.32	-13	-32.32	H
3.321240	56.29	Pk	32.8	-95.2	-47.30	-53.41	-13	-40.41	V
3.326080	56.58	Pk	32.8	-95.2	-47.39	-53.21	-13	-40.21	H
Mid Channel, 836.5MHz									
1.656280	58.77	Pk	29.0	-95.2	-49.40	-56.83	-13	-43.83	V
1.668160	58.30	Pk	29.0	-95.2	-49.48	-57.38	-13	-44.38	H
2.489339	67.81	Pk	31.9	-95.2	-50.03	-45.52	-13	-32.52	H
2.489555	66.97	Pk	31.9	-95.2	-50.06	-46.39	-13	-33.39	V
3.250840	58.39	Pk	32.8	-95.2	-48.02	-52.03	-13	-39.03	H
3.284720	57.47	Pk	32.9	-95.2	-47.57	-52.40	-13	-39.40	V
High Channel, 844MHz									
1.669480	59.48	Pk	29.0	-95.2	-49.40	-56.12	-13	-43.12	V
1.679600	58.42	Pk	29.0	-95.2	-49.50	-57.28	-13	-44.28	H
2.504552	67.11	Pk	32.0	-95.2	-49.96	-46.05	-13	-33.05	H
2.504613	66.93	Pk	32.0	-95.2	-49.96	-46.23	-13	-33.23	V
3.352040	55.65	Pk	32.7	-95.2	-47.10	-53.95	-13	-40.95	V
3.366560	55.49	Pk	32.7	-95.2	-47.30	-54.31	-13	-41.31	H

A3519, LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496277
Date:	2025-07-21
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B26 22H 10MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 829MHz									
1.649767	65.50	Pk	28.9	-95.2	-49.40	-50.20	-13	-37.20	H
1.649824	69.20	Pk	28.9	-95.2	-49.40	-46.50	-13	-33.50	V
2.474240	60.40	Pk	31.8	-95.2	-50.12	-53.12	-13	-40.12	V
2.500200	60.02	Pk	32.0	-95.2	-50.00	-53.18	-13	-40.18	H
3.332240	55.70	Pk	32.7	-95.2	-47.40	-54.20	-13	-41.20	H
3.338840	55.63	Pk	32.7	-95.2	-47.30	-54.17	-13	-41.17	V
Mid Channel, 836.5MHz									
1.659800	58.95	Pk	29.0	-95.2	-49.40	-56.65	-13	-43.65	V
1.670360	57.89	Pk	29.0	-95.2	-49.40	-57.71	-13	-44.71	H
2.511640	60.56	Pk	32.0	-95.2	-49.90	-52.54	-13	-39.54	H
2.516480	59.46	Pk	32.0	-95.2	-49.85	-53.59	-13	-40.59	V
3.339720	55.21	Pk	32.7	-95.2	-47.23	-54.52	-13	-41.52	H
3.343680	56.41	Pk	32.7	-95.2	-47.20	-53.29	-13	-40.29	V
High Channel, 844MHz									
1.695440	58.04	Pk	29.2	-95.2	-49.50	-57.46	-13	-44.46	H
1.699400	57.59	Pk	29.2	-95.2	-49.50	-57.91	-13	-44.91	V
2.504507	64.79	Pk	32.0	-95.2	-49.95	-48.36	-13	-35.36	H
2.504741	64.04	Pk	32.0	-95.2	-49.97	-49.13	-13	-36.13	V
3.369640	55.28	Pk	32.7	-95.2	-47.16	-54.38	-13	-41.38	V
3.370520	56.06	Pk	32.7	-95.2	-47.25	-53.69	-13	-40.69	H

5.5. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3520

5.5.1. A3258 AND A3520 ANTENNA PORT DATA

A3520 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3520	Delta (dB)	Remarks
			Frequency MHz	FCC ID :BCG-E8947A l(dBm)	FCC ID: BCG-E8952A (dBm)		
GSM	GPRS 850	Cond Power	836.6	33.00	33.00	0.00	
	GPRS 1900	Cond Power	1880.0	32.00	32.00	0.00	
WCDMA	REL99 B5	Cond Power	836.5	25.70	25.70	0.00	
	REL99 B2	Cond Power	1880.0	25.70	25.70	0.00	
	REL99 B4	Cond Power	1732.5	25.70	25.70	0.00	

A3520 Spot Check Results							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3520	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8952A (dBm)		
LTE 5CA	QPSK @ 10MHz+10MHz BW	Cond Power	831.5/841.4	25.7	25.7	0.00	
LTE 7CA	QPSK @ 20MHz+20MHz BW	Cond Power	2525.1/2544.9	25.7	25.7	0.00	
LTE 41CA	QPSK @ 20MHz+20MHz BW	Cond Power	2583.1/2602.9	28.7	28.44	-0.26	
LTE 48CA	QPSK @ 20MHz+20MHz BW	Cond Power	3615.1/3634.9	25.0	25.0	0.00	

A3520 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3520	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8952A (dBm)		
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2535.0	25.70	25.70	0.0	
5G NR BAND N7	BPSK @ 50 MHz BW	Cond Power	2535.0	25.70	25.70	0.0	
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	707.5	25.70	25.70	0.0	
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0.0	
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782.0	25.70	25.70	0.0	
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710.0	25.70	25.70	0.0	
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1882.5	25.70	25.70	0.0	
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0.0	
LTE BAND 26 (90S)	QPSK @ 10 MHz BW	Cond Power	819.0	25.70	25.70	0.0	
5G NR BAND N26 (90S)	BPSK @ 10 MHz BW	Cond Power	819.0	25.70	25.70	0.0	
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0.0	
5G NR BAND N26 (P22)	BPSK @ 20 MHz BW	Cond Power	836.5	25.70	25.70	0.0	
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310.0	25.70	25.70	0.0	
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310.0	25.20	25.20	0.0	
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593.0	28.63	28.69	0.1	
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593.0	28.70	28.63	-0.1	
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3620.0	26.00	26.00	0.0	
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3620.0	26.00	26.00	0.0	
LTE BAND 53	QPSK @ 10 MHz BW	Cond Power	2489.0	20.70	20.70	0.0	
5G NR BAND N53	BPSK @ 10 MHz BW	Cond Power	2489.0	20.70	20.70	0.0	
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745.0	25.70	25.70	0.0	
5G NR BAND N66	BPSK @ 45 MHz BW	Cond Power	1745.0	25.70	25.70	0.0	
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0.0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500.0	28.70	28.70	0.0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840.0	28.70	28.70	0.0	

A3520 RADIATED SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3520	Delta (dB)	Margin (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8952A (dBm)		M(dB)=C(dB)-R(dB)	
LTE BAND 7	QPSK @ highest BW	RSE	2535.0	-50.79	-47.84	2.95	25.79	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-51.19	-50.07	1.12	38.19	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-45.52	-44.83	0.69	32.52	Note 1
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3620.0	-50.40	-50.08	0.32	10.40	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary.Full set of measurements performed

5.6. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3521

5.6.1. A3258 AND A3521 ANTENNA PORT DATA

A3521 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3521	Delta (dB)	Remarks
			Frequency MHz	FCC ID :BCG-E8947A (dBm)	FCC ID: BCG-E8953A (dBm)		
GSM	GPRS 850	Cond Power	836.6	33.00	33.00	0.00	
	GPRS 1900	Cond Power	1880.0	32.00	32.00	0.00	
WCDMA	REL99 B5	Cond Power	836.5	25.70	25.70	0.00	
	REL99 B2	Cond Power	1880.0	25.70	25.70	0.00	
	REL99 B4	Cond Power	1735.2	25.70	25.70	0.00	

A3521 Spot Check Results							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3521	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8953A (dBm)		
LTE 5CA	QPSK @ 10MHz+10MHz BW	Cond Power	831.5/841.4	25.70	25.69	-0.01	
LTE 7CA	QPSK @ 20MHz+20MHz BW	Cond Power	2525.1/2544.9	25.70	25.70	0.00	
LTE 41CA	QPSK @ 20MHz+20MHz BW	Cond Power	2583.1/2602.9	28.70	28.55	-0.15	
LTE 48CA	QPSK @ 20MHz+20MHz BW	Cond Power	3615.1/3634.9	25.00	25.00	0.00	

A3521 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3521	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8953A (dBm)		
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2535	25.70	25.70	0.0	
5G NR BAND N7	BPSK @ 50 MHz BW	Cond Power	2535	25.70	25.70	0.0	
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	707.5	25.70	25.70	0.0	
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0.0	
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782.0	25.70	25.70	0.0	
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710.0	25.70	25.70	0.0	
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1882.5	25.70	25.70	0.0	
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0.0	
LTE BAND 26 (90S)	QPSK @ 10 MHz BW	Cond Power	819.0	25.70	25.70	0.0	
5G NR BAND N26 (90S)	BPSK @ 10 MHz BW	Cond Power	819.0	25.70	25.70	0.0	
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0.0	
5G NR BAND N26 (P22)	BPSK @ 20 MHz BW	Cond Power	836.5	25.70	25.70	0.0	
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310.0	25.70	25.70	0.0	
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310.0	25.20	25.20	0.0	
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593.0	28.63	28.70	0.1	
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593.0	28.70	28.70	0.0	
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3620.0	26.00	26.00	0.0	
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3620.0	26.00	26.00	0.0	
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745.0	25.70	25.70	0.0	
5G NR BAND N66	BPSK @ 45 MHz BW	Cond Power	1745.0	25.70	25.70	0.0	
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0.0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500.0	28.70	28.70	0.0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840.0	28.70	28.70	0.0	

A3521 RADIATED SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured	Original Model: A3258	Sub Model: A3521	Delta (dB)	Margin (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8947A (dBm)	FCC ID: BCG-E8953A (dBm)		M(dB)=C(dB)-R(dB)	
LTE BAND 7	QPSK @ highest BW	RSE	2535.0	-50.79	-48.57	2.22	25.79	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-51.19	-51.94	-0.75	38.19	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-45.52	-52.06	-6.54	32.52	Note 3
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3620.0	-50.40	-49.70	0.7	10.4	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

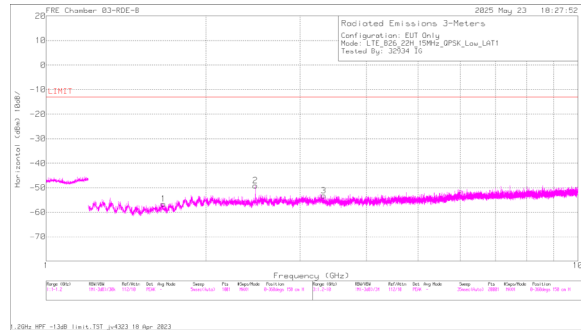
Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary.Full set of measurements performed

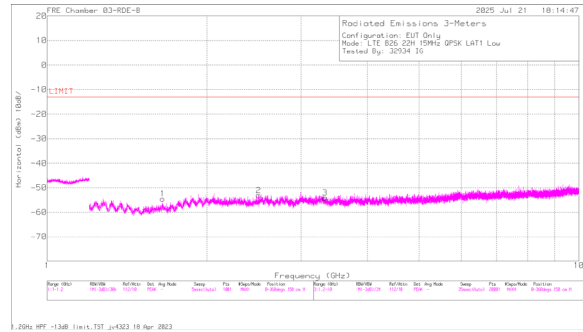
5.6.2. A3258 AND A3521 BAND 26 (PART 22) RADIATED PLOTS AND DATA

Full tests are performed on variant models.

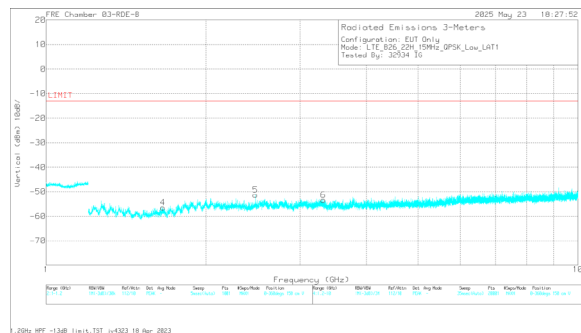
BAND 26 (PART 22) PLOTS



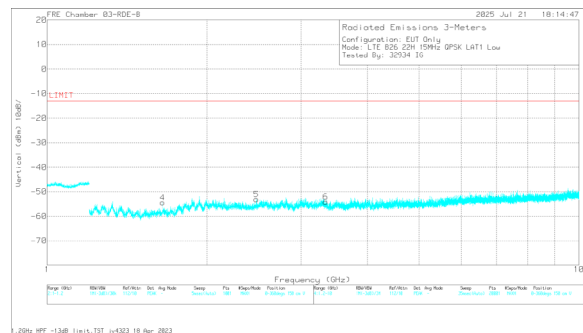
A3258 LTE B26 QPSK Low Channel Horizontal



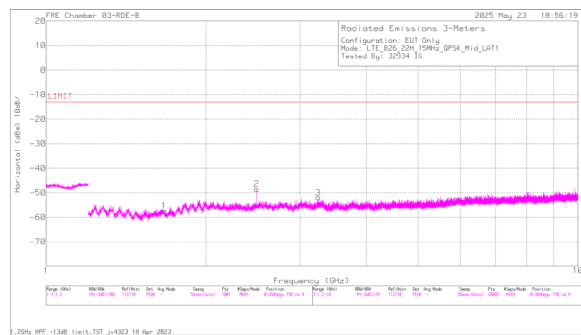
A3521 LTE B26 QPSK Low Channel Horizontal



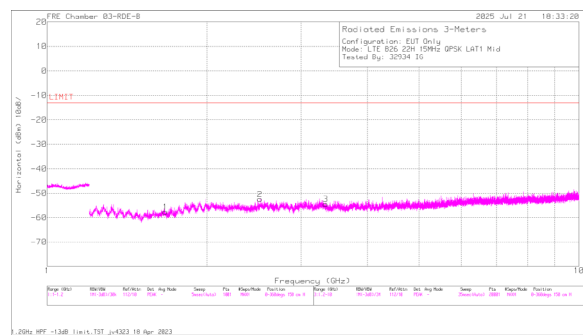
A3258 LTE B26 QPSK Low Channel Vertical



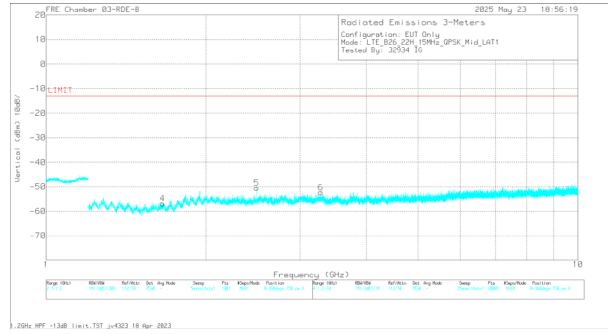
A3521 LTE B26 QPSK Low Channel Vertical



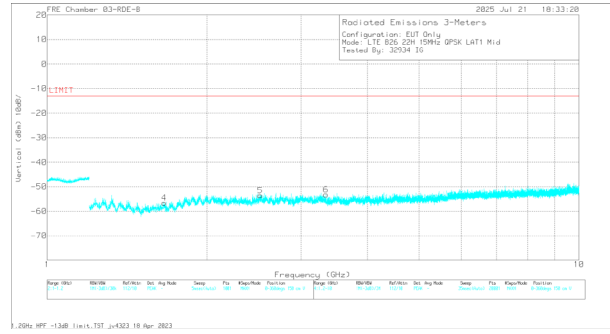
A3258 LTE B26 QPSK Mid Channel Horizontal



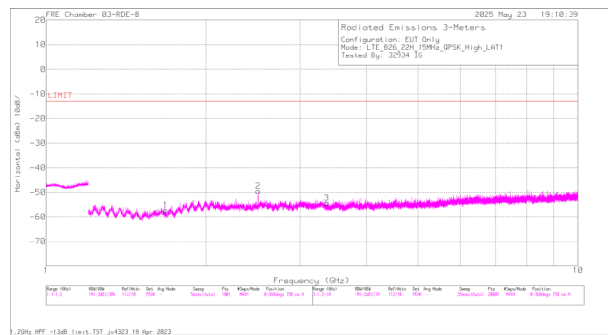
A3521 LTE B26 QPSK Middle Channel Horizontal



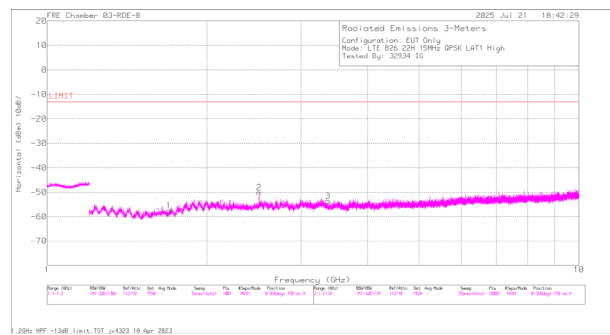
A3258 LTE B26 QPSK Mid Channel Vertical



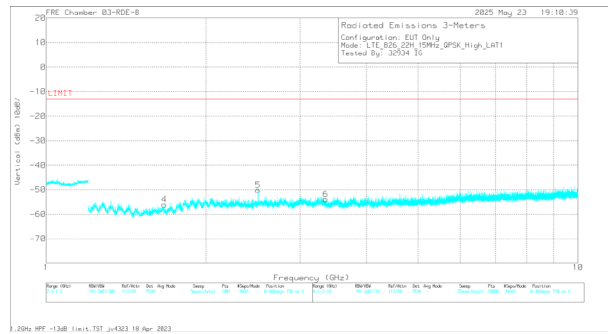
A3521 LTE B26 QPSK Middle Channel Vertical



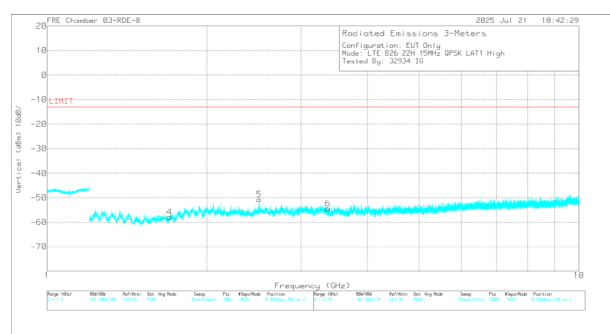
A3258 LTE B26 QPSK High Channel Horizontal



A3521 LTE B26 QPSK High Channel Horizontal



A3258 LTE B26 QPSK High Channel Vertical



A3521 LTE B26 QPSK High Channel Vertical

A3258, LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496277
Date:	2025-05-23
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B26 22H 10MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 829MHz									
1.658480	59.12	Pk	29.0	-95.2	-49.40	-56.48	-13	-43.48	V
1.662440	59.08	Pk	29.0	-95.2	-49.44	-56.56	-13	-43.56	H
2.474573	66.30	Pk	31.9	-95.2	-50.16	-47.16	-13	-34.16	V
2.474700	68.15	Pk	31.9	-95.2	-50.17	-45.32	-13	-32.32	H
3.321240	56.29	Pk	32.8	-95.2	-47.30	-53.41	-13	-40.41	V
3.326080	56.58	Pk	32.8	-95.2	-47.39	-53.21	-13	-40.21	H
Mid Channel, 836.5MHz									
1.656280	58.77	Pk	29.0	-95.2	-49.40	-56.83	-13	-43.83	V
1.668160	58.30	Pk	29.0	-95.2	-49.48	-57.38	-13	-44.38	H
2.489339	67.81	Pk	31.9	-95.2	-50.03	-45.52	-13	-32.52	H
2.489555	66.97	Pk	31.9	-95.2	-50.06	-46.39	-13	-33.39	V
3.250840	58.39	Pk	32.8	-95.2	-48.02	-52.03	-13	-39.03	H
3.284720	57.47	Pk	32.9	-95.2	-47.57	-52.40	-13	-39.40	V
High Channel, 844MHz									
1.669480	59.48	Pk	29.0	-95.2	-49.40	-56.12	-13	-43.12	V
1.679600	58.42	Pk	29.0	-95.2	-49.50	-57.28	-13	-44.28	H
2.504552	67.11	Pk	32.0	-95.2	-49.96	-46.05	-13	-33.05	H
2.504613	66.93	Pk	32.0	-95.2	-49.96	-46.23	-13	-33.23	V
3.352040	55.65	Pk	32.7	-95.2	-47.10	-53.95	-13	-40.95	V
3.366560	55.49	Pk	32.7	-95.2	-47.30	-54.31	-13	-41.31	H

A3521, LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496277
Date:	2025-07-21
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B26 22H 10MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 829MHz									
1.649767	65.50	Pk	28.9	-95.2	-49.40	-50.20	-13	-37.20	H
1.649824	69.20	Pk	28.9	-95.2	-49.40	-46.50	-13	-33.50	V
2.474240	60.40	Pk	31.8	-95.2	-50.12	-53.12	-13	-40.12	V
2.500200	60.02	Pk	32.0	-95.2	-50.00	-53.18	-13	-40.18	H
3.332240	55.70	Pk	32.7	-95.2	-47.40	-54.20	-13	-41.20	H
3.338840	55.63	Pk	32.7	-95.2	-47.30	-54.17	-13	-41.17	V
Mid Channel, 836.5MHz									
1.659800	58.95	Pk	29.0	-95.2	-49.40	-56.65	-13	-43.65	V
1.670360	57.89	Pk	29.0	-95.2	-49.40	-57.71	-13	-44.71	H
2.511640	60.56	Pk	32.0	-95.2	-49.90	-52.54	-13	-39.54	H
2.516480	59.46	Pk	32.0	-95.2	-49.85	-53.59	-13	-40.59	V
3.339720	55.21	Pk	32.7	-95.2	-47.23	-54.52	-13	-41.52	H
3.343680	56.41	Pk	32.7	-95.2	-47.20	-53.29	-13	-40.29	V
High Channel, 844MHz									
1.695440	58.04	Pk	29.2	-95.2	-49.50	-57.46	-13	-44.46	H
1.699400	57.59	Pk	29.2	-95.2	-49.50	-57.91	-13	-44.91	V
2.504507	64.79	Pk	32.0	-95.2	-49.95	-48.36	-13	-35.36	H
2.504741	64.04	Pk	32.0	-95.2	-49.97	-49.13	-13	-36.13	V
3.369640	55.28	Pk	32.7	-95.2	-47.16	-54.38	-13	-41.38	V
3.370520	56.06	Pk	32.7	-95.2	-47.25	-53.69	-13	-40.69	H

5.7. REFERENCE DETAIL

Reference application that contains the reused reference data.

Reference FCC ID	Varant model FCC IDs	Equipment Class	Reference test report / Data referencing sections
BCG-E8947A	BCG-E8951A	PCE	15496277-E21 / All sections 15496277-E22 / All sections 15496277-E23 / All sections 15496277-E26 / All sections 15496277-E27 / All sections 15496277-E28/ All sections 15496277-E29 / All sections 15496277-E30 / All sections 15496277-E31 / All sections 15496277-E33 / All sections
		CBE	15496277-E34 / All sections
		TNE	15496277-E24 / All sections 15496277-E25 / All sections
BCG-E8947A	BCG-E8952A	PCE	15496277-E21 / All sections 15496277-E22 / All sections 15496277-E23 / All sections 15496277-E26 / All sections except B71/n71 15496277-E27 / All sections 15496277-E29 / All sections 15496277-E28 / All sections 15496277-E30 / All sections 15496277-E31 / All sections
		CBE	15496277-E34 / All sections
		TNE	15496277-E24 / All sections 15496277-E25 / All sections
BCG-E8947A	BCG-E8953A	PCE	15496277-E21 / All sections 15496277-E22 / All sections 15496277-E23 / All sections 15496277-E26 / All sections except B71/n71 15496277-E27 / All sections 15496277-E29 / All sections 15496277-E28 / All sections 15496277-E30 / All sections 15496277-E31 / All sections
		CBE	15496277-E34 / All sections

5.8. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.8.0.0.

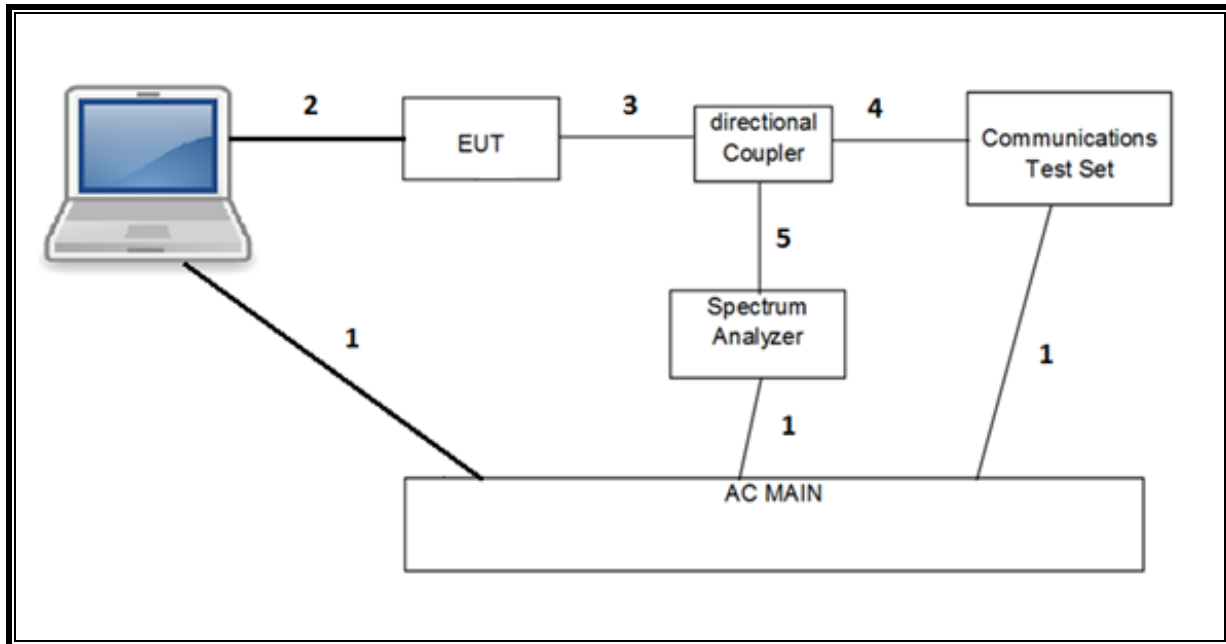
5.9. SPOT CHECK WORST-CASE CONFIGURATION AND MODE

The spot checks were performed on the worst-case orientations and configurations based on the parent model of reference report.

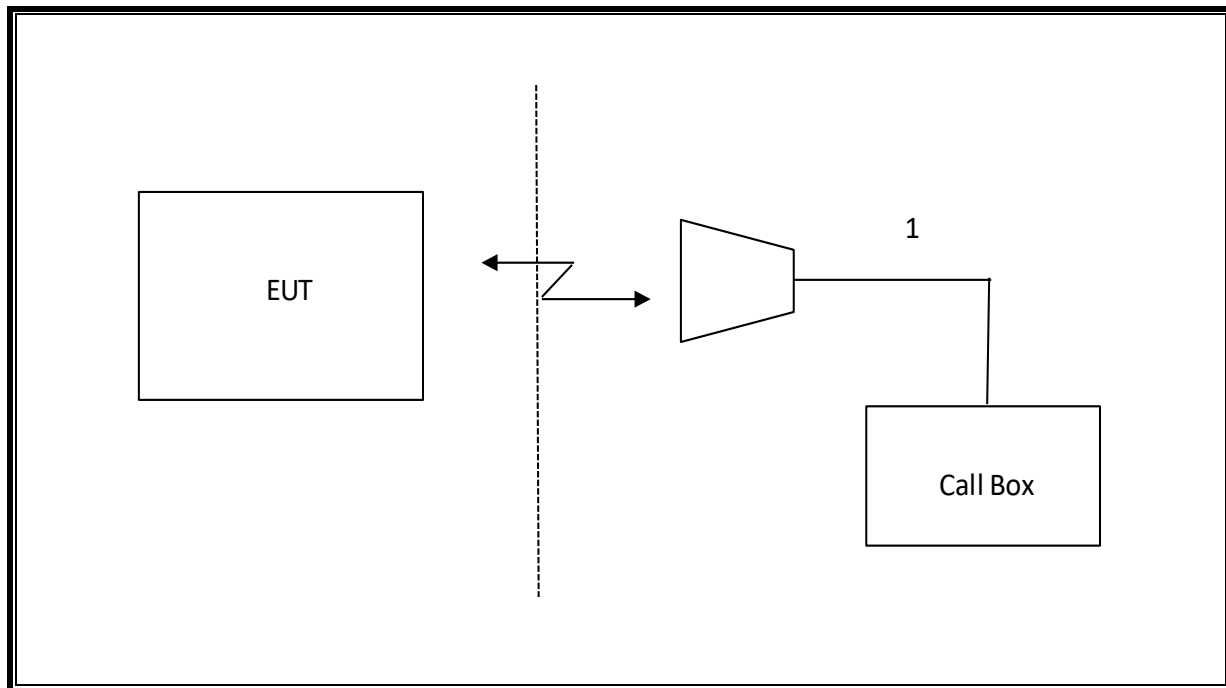
5.10. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	MacBook Pro	HRP082672		BCGA1708
AC/DC adapter		Apple	A1718	C4H64450HH3GN8RA6		--
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	Un-shielded	1.0	N/A
3	RF In/Out	1	EUT	Un-shielded	0.6	N/A
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2	N/A
5	RF In/Out	1	Barrel	N/A	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	Antenna	Un-shielded	5.0	N/A

CONDUCTED SETUP



RADIATED SETUP



6. 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	230297	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	236726	2025-10-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	171863	2026-11-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172353	2025-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2026-04-29
Antenna, Horn 26.5-40GHz	A.R.A.	MWH-2640/B	81105	2025-08-31
Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain	Ampical	AMP26G40-65	220193	2026-04-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231912	2026-04-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	259079	2026-02-28
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262734	2026-04-30
Wideband Communication Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	85943	2026-02-28
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	221008	2026-04-30
Conducted Switch Box	N/A	CSB	262354	2026-04-30
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2025-09-30
Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Directional Coupler	KRYTAR	152610	254457	2025-10-31
Directional Coupler	KRYTAR	101040010K	254458	2025-10-30
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	CLT	Ver.2023 11.21.0 & .2024.3.20.0	
Conducted Software	UL	Power Measurement	Ver 2023.08.14	
Conducted Software	UL	Antenna Port	Ver.2022.8.16& 2021.5.13	
Conducted Software	UL	Station Tool	Ver. 5.0 & 5.2 & 6.0	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

Appendix A – Reference Test Report

Attached is the test report (15496277-E21 to 15496277-E34 except 15496277-E32) containing the reference data from the parent model as detailed in section 5.7.