

TEST REPORT

Report Number: 15982168-E24V2

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

Model : A3716 (Parent)
A3717 (Variant)

Brand : APPLE

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

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

EUT Description : SMARTPHONE

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

Date Of Issue:
2026-08-13

Prepared by:
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2026-07-31	Initial Review	--
V2	2026-08-13	Addressed TCB Feedback Cover page, Section 1, and 6.4	Andrew Le

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12.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A371735

1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3716 (Parent) A3717 (Variant)	
Brand	Apple	
FCC ID	BCG-E9195A (Parent) BCG-E9196A (Variant)	
IC	579C-E9195A (Parent) 579C-E9196A (Variant)	
EUT Description	SMARTPHONE	
Serial Number	Radiated: H9PQGVK9C7, GXCX60F5MV Conducted: HVHHSJ000370001K2B, HVHHSM0005B0001K2C	
Sample Receipt Date	2026-02-11	
Date Tested	2026-05-14 to 2026-07-31	
Applicable Standards	FCC 47 CFR PART 2, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-170 ISSUE 4	
Test Results	COMPLIES	
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.		
Approved & Released By: 		Prepared & Reviewed By: 
Thu Chan Staff Engineer UL Verification Services Inc.		Michael Vang Senior Test Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

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

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
RF Output Power	25.204 (a)	RSS-170 §5.5	Complies	
Occupied Bandwidth	2.1049	RSS-Gen	Complies	
Emissions Mask - within 250% of Authorized Bandwidth	25.202 (f)(1)&(2)	RSS-170 §5.8 (a) (b)	Complies	
Out of Band Emissions	25.202 (f)(3)	RSS-170 §5.8 (c)	Complies	
Frequency Stability	25.202 (d)	RSS-170 §5.3	Complies	
Field Strength of Spurious Radiation	25.202 (f)(3)	RSS-170 §5.8 (c)	Complies	
Additional Unwanted Emission (1559-1610MHz)	25.216 (c)&(g) FCC 03-283	RSS-170 §5.9.1	Complies	
Carrier-Off State Emissions (1559-1610MHz)	25.216 (i) FCC 03-283	RSS-170 §5.10	Complies	

3. TEST METHODOLOGY

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

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

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

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 25
- [FCC KDB 971168 D01](#) : Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#) : Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#) : Determining ERP and EIRP
- ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-170 ISSUE 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: [CTECH Operations - North America - NA MUs - All Documents \(sharepoint.com\)](#) → check the latest MU number here and delete this

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 Average 1.300 dB Peak
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

6. EQUIPMENT UNDER TEST

6.1. 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 RX only) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

LIMITS

FCC: §25.204

(a) In bands shared coequally with terrestrial radio communication services, the equivalent isotropically radiated power transmitted in any direction towards the horizon by an earth station, other than an ESV, operating in frequency bands between 1 and 15 GHz, shall not exceed the following limits except as provided for in paragraph (c) of this section:

+ 40 dBW in any 4 kHz band for $\theta \leq 0^\circ$

+ 40 + 3 θ dBW in any 4 kHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

ISED: RSS-170§5.5: Transmitter output power for MESs (Mobile Earth Stations)

The application for MES certification shall state the MES e.i.r.p. that is necessary for satisfactory communication. The maximum permissible e.i.r.p. will be the stated e.i.r.p. plus a 2 dB margin. If a detachable antenna is used, the certification application shall state the recommended antenna type and manufacturer, the antenna gain and the maximum transmitter output power at the antenna terminal.

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015

KDB 971168 D01 Section 5.6

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

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

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

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

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

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

The transmitter has a maximum average conducted and EIRP output powers as follows:

Part 25 / RSS 170							
EIRP Limit (W)		1000.00					
Antenna Gain (dBi)		-3.60					
Band	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
L-Band	1610.17	1626.03	28.70	25.10	0.324	200.210	200KG1D

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 24A349.

6.4. WORST-CASE CONFIGURATION AND MODE

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

ANT 4
Y

The emissions mask tests were performed based on declared authorized bandwidths of 200kHz, 230kHz and 280kHz.

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

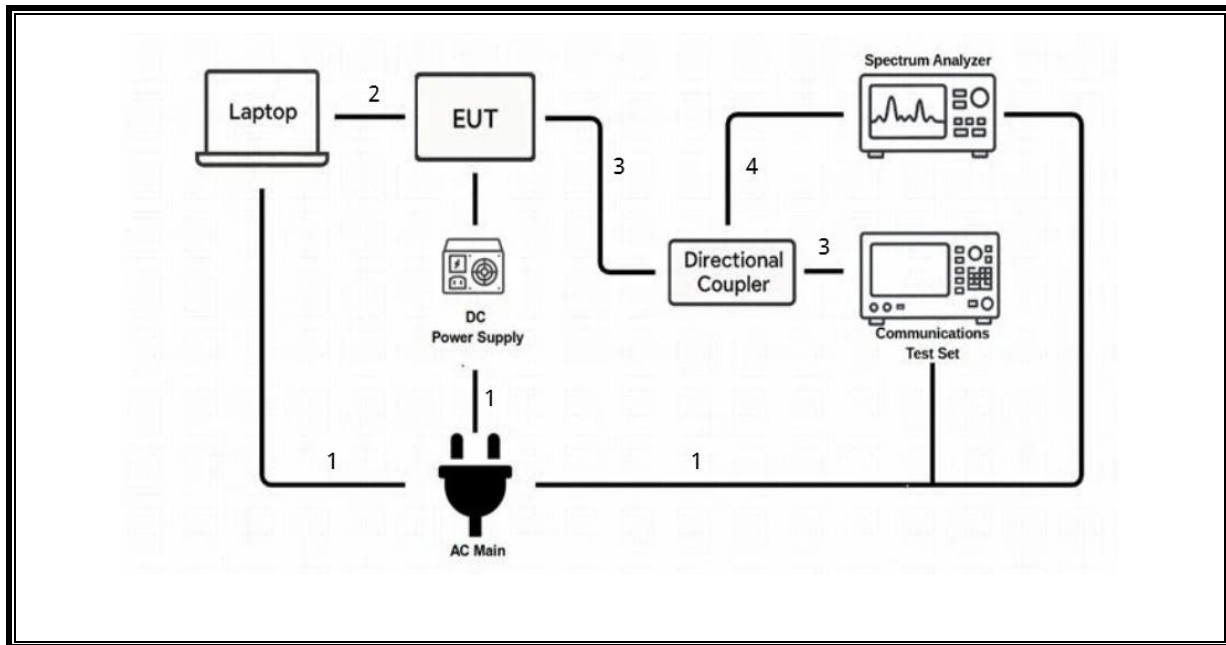
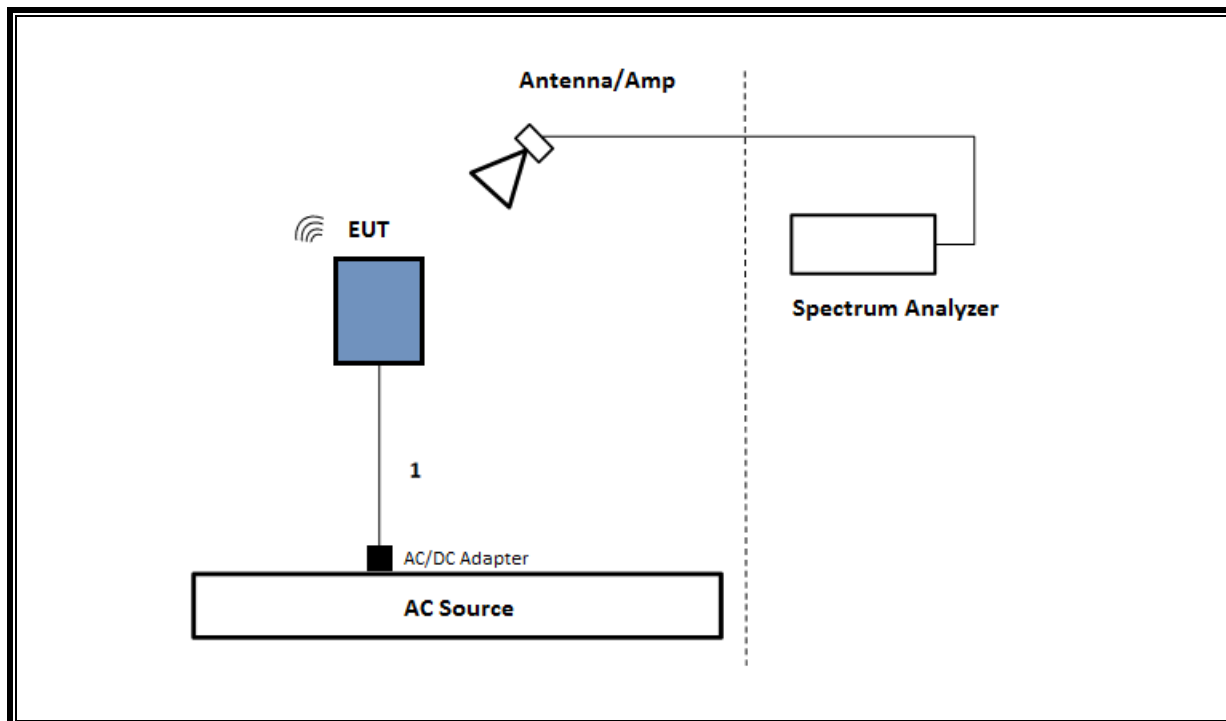
For simultaneous transmission of multiple channels in the WLAN channels, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT				
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC
Laptop	Apple	MacBook Pro	F5JJ42D7R9	DoC
Laptop AC/DC Adapter	Apple	61W Charger	C06939403RAJFYFBU	DoC
EUT AC/DC Cable	Apple	A246F	FTLHDB001KW0001061	DoC
EUT AC/DC Adapter	Apple	B820	C4H9516000GPF4F4H	DoC

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	Type-C	Shielded	2.0	N/A
3	RF In/Out	1	SMA	Shielded	1.0	N/A
4	RF In/Out	1	SMA	Shielded	0.5	N/A
5	RF In/Out	1	SMA Adapter	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	AC	1	Type-C	Un-shielded	1.0	N/A

CONDUCTED SETUP**RADIATED SETUP**

7. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	275999	2027-03-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200784	2027-03-31
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	279299	2027-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169933	2027-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80402	2027-07-31
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	231874	2027-01-31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO METRICS	EM-6871	170014	2027-09-30
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO METRICS	EM-6872	29640	2026-09-30
Antenna, BroadBand Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	174374	2027-06-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	230311	2027-02-28
Directional Coupler	KRYTAR	152610	254457	2026-09-04
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	276680	2027-01-31
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262741	2027-02-11
UL AUTOMATION SOFTWARE				
Conducted Software	UL	Antenna Port	Ver.2022.8.16& 2021.5.13	
Conducted Software	UL	Station Tool	Ver. 5.0 & 5.3	

8. RF OUTPUT POWER VERIFICATION

LIMITS

FCC: §25.204

(a) In bands shared coequally with terrestrial radio communication services, the equivalent isotropically radiated power transmitted in any direction towards the horizon by an earth station, other than an ESV, operating in frequency bands between 1 and 15 GHz, shall not exceed the following limits except as provided for in paragraph (c) of this section:

+ 40 dBW in any 4 kHz band for $\theta \leq 0^\circ$

+ 40 + 3 θ dBW in any 4 kHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

ISED: RSS-170§5.5: Transmitter output power for MESs (Mobile Earth Stations)

The application for MES certification shall state the MES e.i.r.p. that is necessary for satisfactory communication. The maximum permissible e.i.r.p. will be the stated e.i.r.p. plus a 2 dB margin. If a detachable antenna is used, the certification application shall state the recommended antenna type and manufacturer, the antenna gain and the maximum transmitter output power at the antenna terminal.

TEST PROCEDURE

The transmitter output is connected to a wideband power meter/sensor which is greater than the occupied bandwidth as worst-case scenario, also the total power readings still comply with the required limit.

The cable assembly insertion loss of 12.69 dB (ANT 4) (including 10.7 dB coupler and 1.99 dB cable) was entered as an offset in the power meter to allow for a gated average reading of power.

RESULTS

Test Engineer ID:	32546	Test Date:	2026-07-21
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Test Frequency (MHz)	Conducted Average Power (dBm)	Antenna Gain (dBi)	EIRP Average Power (dBm)
	ANT 4	ANT 4	ANT 4
1610.17	28.63	-3.6	25.03
1618.40	28.70		25.10
1626.03	28.69		25.09

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS-GEN

LIMITS

For reporting purposes only.

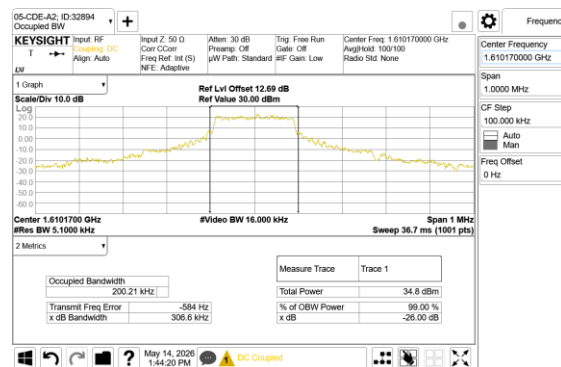
TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW. The 99% bandwidths were measured and recorded.

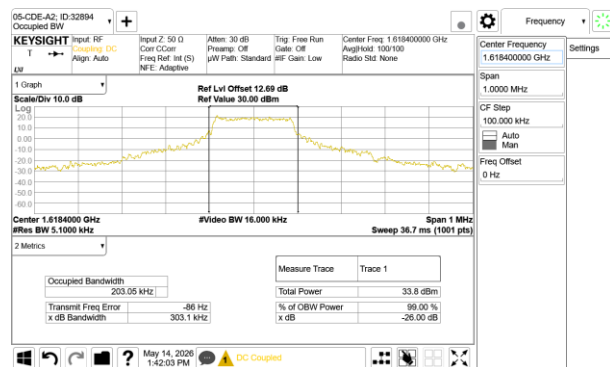
RESULTS

Test Engineer ID:	32894	Test Date:	2026-05-04
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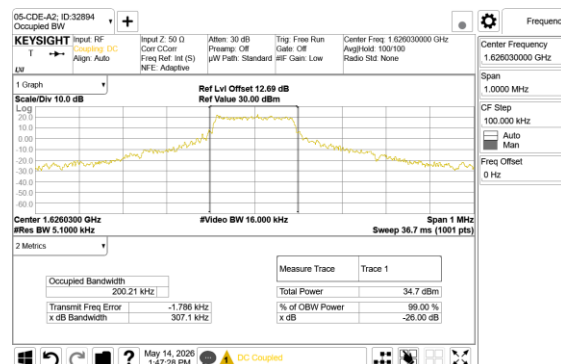
Test Frequency (MHz)	99% Bandwidth (kHz) ANT 4
1610.17	200.21
1618.40	203.05
1626.03	200.21



Occupied Bandwidth Low Channel Ant 4



Occupied Bandwidth Mid Channel Ant 4



Occupied Bandwidth High Channel Ant 4

9.2. EMISSIONS MASK WITHIN 250% OF AUTHORIZED BANDWIDTH

LIMITS

FCC §25.202

(f) Emission limitations. Except for SDARS terrestrial repeaters and as provided for in paragraph (i), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule set forth in paragraphs (f)(1) through (f)(4) of this section. The out-of-band emissions of SDARS terrestrial repeaters shall be attenuated in accordance with the schedule set forth in paragraph (h) of this section.

(1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB;

(2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;

ISED RSS-170§ 5.8: Unwanted emission limits for MESs in all frequency bands

The average power of unwanted emissions shall be attenuated below the average output power, P (dBW), of the transmitter, as specified below:

- a. 25 dB in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 50%, up to and including 100% of the occupied bandwidth or necessary bandwidth, whichever is greater
- b. 35 dB in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 100%, up to and including 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The channel edge emissions were measured on the low, mid and high channels. The limits within 250% of the authorized bandwidth are relative to the total in-band (channel) power. The measurement bandwidth (RBW) is set to ≥ 4 kHz and VBW set to at least 3 times the RBW. To measure the average value of the emissions the detector is set to rms while observing the minimum required number of points as detailed in ANSI C63.26 for average rms measurements. The sweep time is set to 2ms multiplied by the number of points to obtain the average over 2ms. Multiple sweeps with max hold enabled are made to capture the maximum average value.

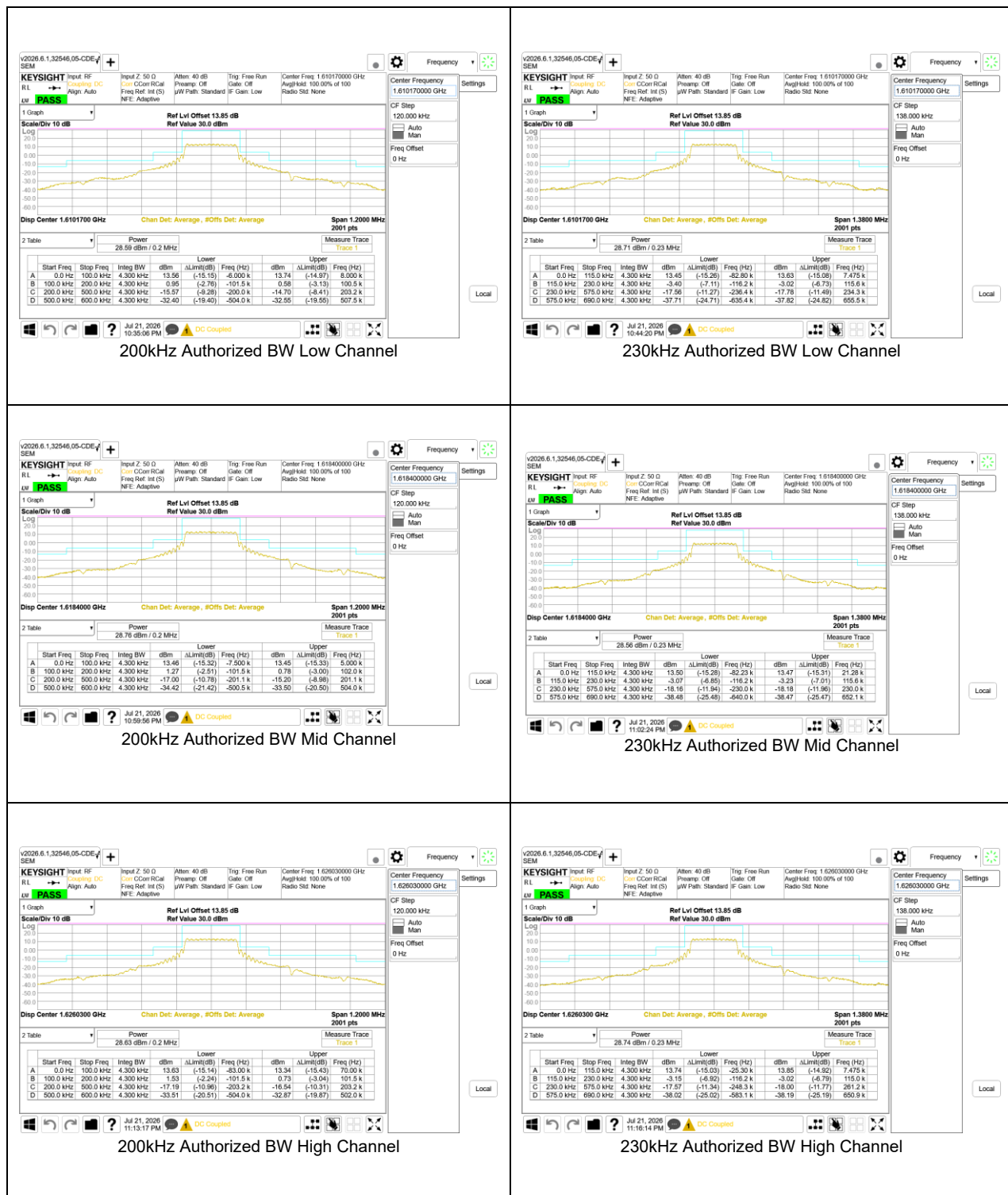
The cable assembly insertion loss of 13.85dB (ANT 4) (including 10.70dB coupler, 1.99dB, 1.16dB duty cycle correction factor) was entered as an offset in the PXA for Emission Mask testing and average reading of power.

RESULTS

The tests were performed based on declared authorized bandwidths of 200kHz, 230kHz and 280kHz.

Test Engineer ID:	32546	Test Date:	2026-07-14
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9.2.1. ANT 4





9.3. OUT OF BAND EMISSIONS

LIMITS

FCC §25.202 and

(f) Emission limitations. Except for SDARS terrestrial repeaters and as provided for in paragraph (i), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule set forth in paragraphs (f)(1) through (f)(4) of this section. The out-of-band emissions of SDARS terrestrial repeaters shall be attenuated in accordance with the schedule set forth in paragraph (h) of this section.

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts.

ISED RSS-170§5.8: Unwanted emission limits for MESs in all frequency bands

- c. $43 + 10 \log p$ (watts) in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

TEST PROCEDURE

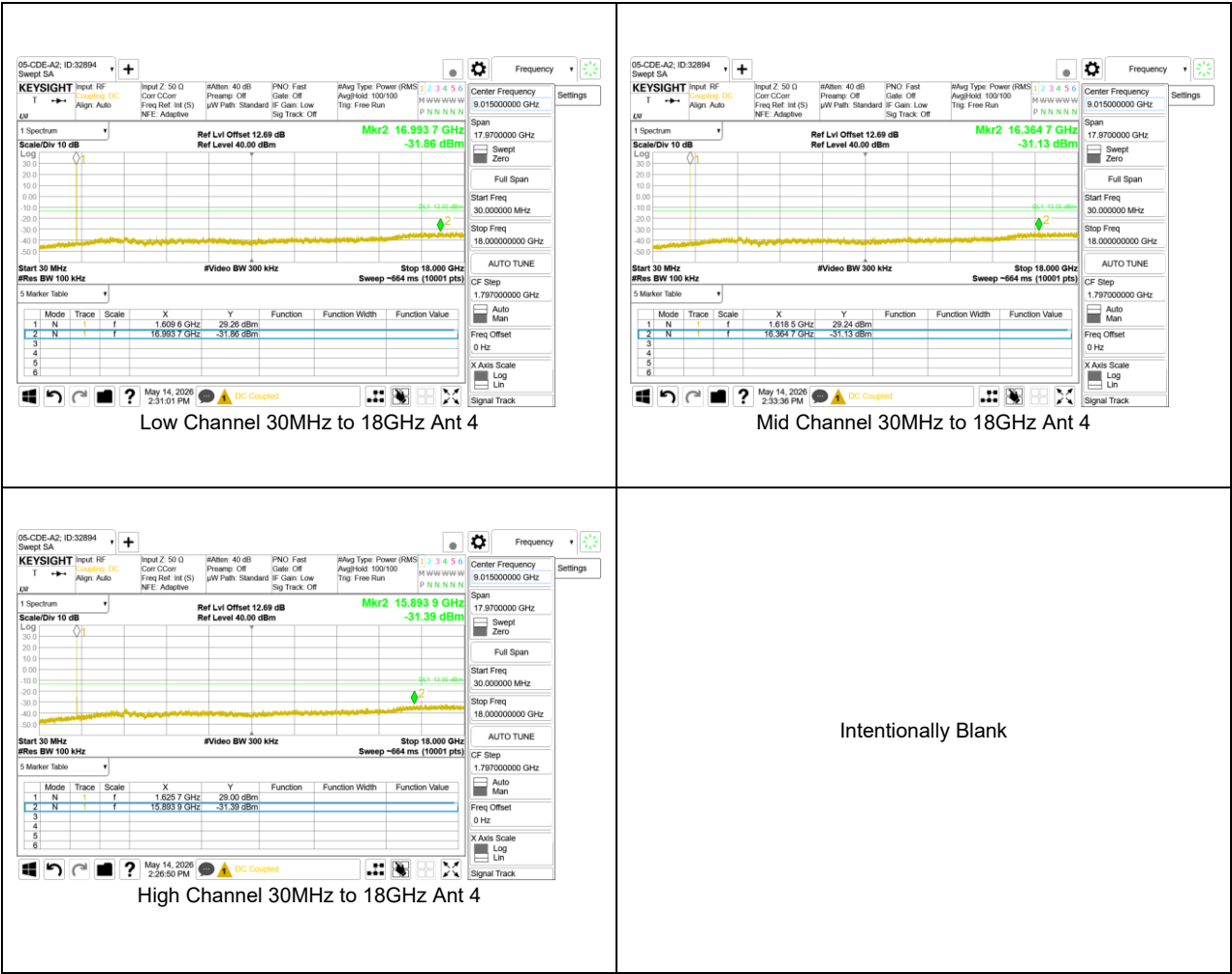
KDB 971168 D01/D02

For each out of band emissions measurement:

- Set display line at -13 dBm (the limit of $43 + 10\log(P)$)
- Set RBW $\geq 4\text{kHz}$ and VBW $\geq 3 \times \text{RBW}$ with peak detector for all measurements. The limit is an average limit so any emissions that exceed the limit using the peak detector are measured using rms detection with an averaging time of 2ms.

RESULTS

Test Engineer ID:	32894	Test Date:	2026-05-14
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9.4. FREQUENCY STABILITY

LIMITS

FCC §25.202

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

ISED RSS-170: 5.3

For MES equipment, the carrier frequency shall not drift from the reference frequency by more than ± 10 ppm.

TEST PROCEDURE

Use spectrum with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.

End Voltage, 2.95VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

Test Engineer ID:	32546	Test Date:	2026-07-10
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Frequency Reference (MHz)		1610.17906		Frequency Reading (MHz)	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -10dB BW (MHz)	F high @ -10dB BW (MHz)			
Temperature	Voltage					
Normal (20 C)	Normal	1610.088	1610.270125	1610.17906		
Extreme (50C)		1610.085375	1610.268813	1610.17709	-1968.7	-1.22
Extreme (40C)		1610.0855	1610.269438	1610.17747	-1593.7	-0.99
Extreme (30C)		1610.085938	1610.269375	1610.17766	-1406.2	-0.87
Extreme (10C)		1610.086125	1610.267688	1610.17691	-2156.2	-1.34
Extreme (0C)		1610.084625	1610.269	1610.17681	-2250.0	-1.40
Extreme (-10C)		1610.085438	1610.268438	1610.17694	-2125.0	-1.32
Extreme (-20C)		1610.084688	1610.268188	1610.17644	-2624.7	-1.63
Extreme (-30C)		1610.086	1610.269563	1610.17778	-1281.0	-0.80
20C	15%	1610.086625	1610.269625	1610.178125	-937.5	-0.58
	-15%	1610.087188	1610.270313	1610.178750	-312.5	-0.19
	End Point	1610.086563	1610.26925	1610.177906	-1156.2	-0.72

10. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

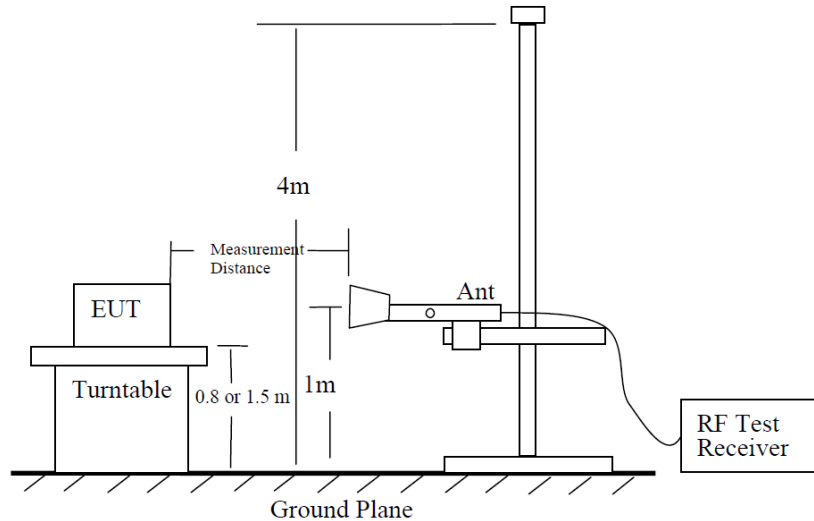


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

10.1. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC §25.202

(f) Emission limitations. Except for SDARS terrestrial repeaters and as provided for in paragraph (i), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule set forth in paragraphs (f)(1) through (f)(4) of this section. The out-of-band emissions of SDARS terrestrial repeaters shall be attenuated in accordance with the schedule set forth in paragraph (h) of this section.

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts;

ISED RSS-170§5.8: Unwanted emission limits for MESs in all frequency bands

- c. $43 + 10 \log p$ (watts) in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

TEST PROCEDURE

KDB 971168 D01/D02

For each out of band emissions measurement:

- Set display line at -13 dBm (the limit of $43 + 10\log(P)$)
- Set RBW $\geq 4\text{kHz}$ and VBW $\geq 3 \times \text{RBW}$ with peak detector for all measurements. The limit is an average limit so any emissions that exceed the limit using the peak detector are measured using rms detection with an averaging time of 2ms.

RESULTS

Plots are provided for the center channel. Tabular data for all channels is presented.

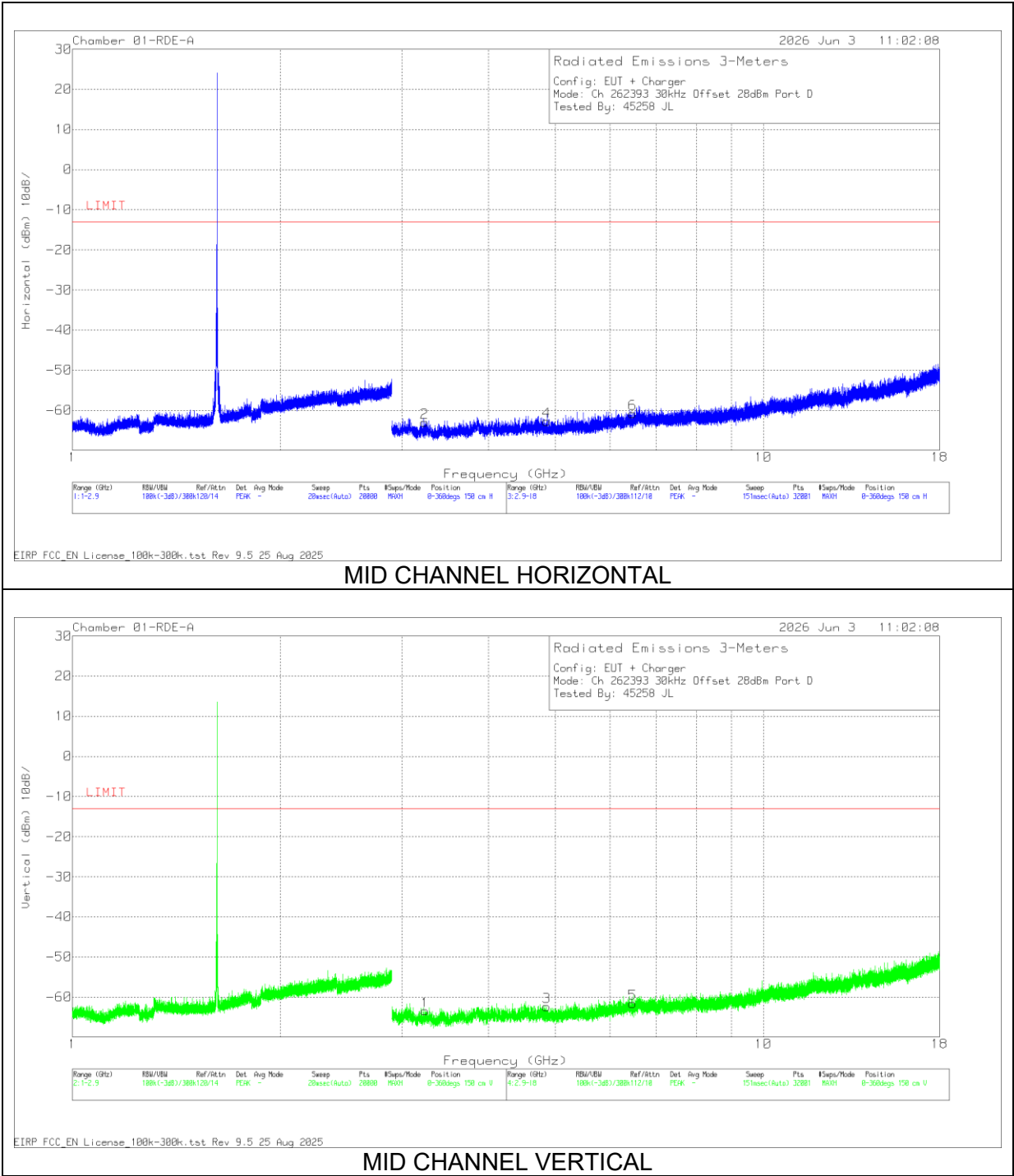
10.1.1. Above 1GHz

Date:	06-03-2026
Test Engineer:	45258
Configuration:	EUT + Charger
Chamber #:	01-RDE-A

Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	EIRP CF	Gain/ Loss (dB)	Correct Reading (dBm)	Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
Low Ch 1610.17	4	3.219931	39.43	Pk	32.8	-95.2	-41.6	-64.57	-13	-51.57	V	136	V
		3.219931	42.18	Pk	32.8	-95.2	-41.6	-61.82	-13	-48.82	H	379	H
		4.837047	38.01	Pk	34.1	-95.2	-41.6	-64.69	-13	-51.69	V	150	V
		4.837047	37.96	Pk	34.1	-95.2	-41.6	-64.74	-13	-51.74	H	150	H
		6.646688	38.08	Pk	35.7	-95.2	-39.14	-60.56	-13	-47.56	V	150	V
		6.646688	38.08	Pk	35.7	-95.2	-39.14	-60.56	-13	-47.56	H	150	V
Mid Ch 1618.4		3.238806	40.33	Pk	32.9	-95.2	-41.49	-63.46	-13	-50.46	0-360	150	V
		3.236447	40.8	Pk	32.9	-95.2	-41.5	-63	-13	-50	0-360	150	H
		4.85545	40.06	Pk	34.4	-95.2	-41.68	-62.42	-13	-49.42	0-360	150	V
		4.856866	39.74	Pk	34.4	-95.2	-41.73	-62.79	-13	-49.79	0-360	150	H
		6.474453	37.8	Pk	35.9	-95.2	-40.11	-61.61	-13	-48.61	0-360	150	V
		6.474453	38.6	Pk	35.9	-95.2	-40.11	-60.81	-13	-47.81	0-360	150	H
High Ch 1626.03		3.252491	38.18	Pk	32.8	-95.2	-41.43	-65.65	-13	-52.65	0-360	150	V
		3.252491	38.64	Pk	32.8	-95.2	-41.43	-65.19	-13	-52.19	0-360	150	H
		4.8781	41.78	Pk	34.1	-95.2	-41.95	-61.27	-13	-48.27	0-360	150	V
		4.8781	38.3	Pk	34.1	-95.2	-41.95	-64.75	-13	-51.75	0-360	150	H
		6.504181	36.68	Pk	35.7	-95.2	-40.14	-62.96	-13	-49.96	0-360	150	V
		6.504181	37.47	Pk	35.7	-95.2	-40.14	-62.17	-13	-49.17	0-360	150	H

Pk - Peak detector

* - Noise floor

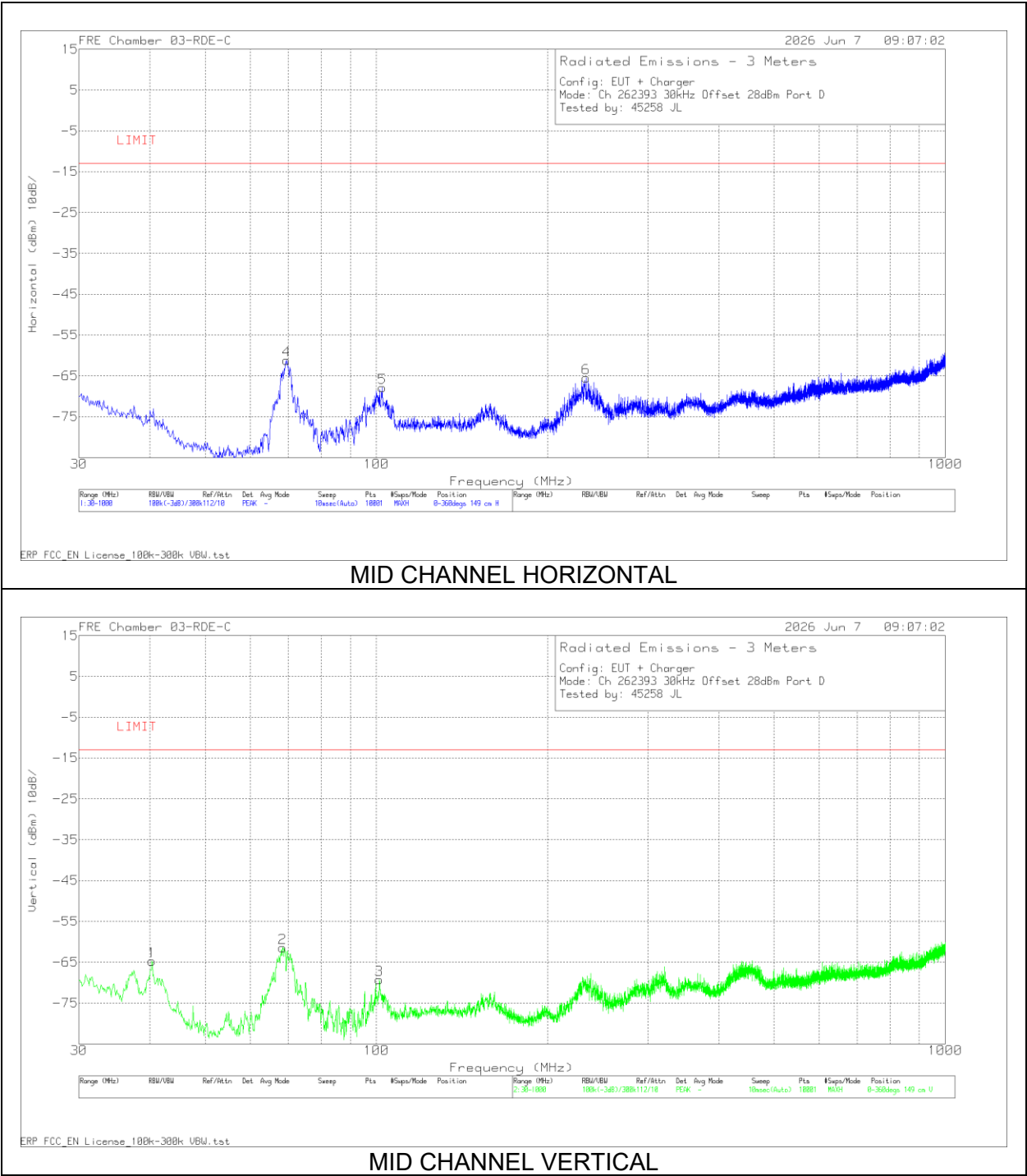


10.1.2. Below 1GHz

Date:	06-07-2026
Test Engineer:	45258
Configuration:	EUT + Charger
Mode:	TX
Chamber #:	03-RDE C

Channel Frequency (MHz)	Ant. #	Frequency (MHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	EIRP CF	Gain/ Loss (dB)	Correct Reading (dBm)	Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
Low Ch 1610.17	4	40.088	36.4	Pk	19.9	-31.4	-95.2	-70.3	-13	-57.3	0-360	149	V
		70.74	38.03	Pk	14.1	-31	-95.2	-74.07	-13	-61.07	0-360	149	V
		95.475	37.99	Pk	14.9	-30.8	-95.2	-73.11	-13	-60.11	0-360	149	V
		95.378	39.23	Pk	14.9	-30.8	-95.2	-71.87	-13	-58.87	0-360	148	H
		99.743	37	Pk	16	-30.8	-95.2	-73	-13	-60	0-360	148	H
		154.645	35.23	Pk	18.1	-30.4	-95.2	-72.27	-13	-59.27	0-360	148	H
Mid Ch 1618.4		40.282	42.07	Pk	19.8	-31.4	-95.2	-64.73	-13	-51.73	0-360	149	V
		68.412	50.53	Pk	14.2	-31	-95.2	-61.47	-13	-48.47	0-360	149	V
		101.198	40.25	Pk	16.5	-30.8	-95.2	-69.25	-13	-56.25	0-360	149	V
		69.479	50.87	Pk	14.2	-31	-95.2	-61.13	-13	-48.13	0-360	149	H
		102.459	41.31	Pk	16.8	-30.8	-95.2	-67.89	-13	-54.89	0-360	149	H
		233.7	42.38	Pk	17.2	-29.8	-95.2	-65.42	-13	-52.42	0-360	149	H
High Ch 1626.03		40.379	41.67	Pk	19.7	-31.4	-95.2	-65.23	-13	-52.23	0-360	149	V
		68.897	51.17	Pk	14.2	-31	-95.2	-60.83	-13	-47.83	0-360	149	V
		232.73	41.16	Pk	17.1	-29.8	-95.2	-66.74	-13	-53.74	0-360	149	V
		69.964	50.3	Pk	14.2	-31	-95.2	-61.7	-13	-48.7	0-360	149	H
		99.355	42.9	Pk	16	-30.8	-95.2	-67.1	-13	-54.1	0-360	149	H
		240.005	39.33	Pk	17.5	-29.8	-95.2	-68.17	-13	-55.17	0-360	149	H

Pk - Peak detector



10.2. ADDITIONAL UNWANTED EMISSION (1559MHz – 1610MHz)

LIMITS

FCC §25.216

Limits on emissions from mobile earth stations for protection of aeronautical radionavigation-satellite service

(a) The e.i.r.p. density of emissions from mobile earth stations placed in service on or before July 21, 2002 ...

(b) The e.i.r.p. density of emissions from mobile earth stations placed in service on or before July 21, 2002 ...

(c) The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed -80 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band.

FCC §25.216

(g) Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1610-1626.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from -70 dBW/MHz at 1605 MHz to -10 dBW/MHz at 1610 MHz averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from -80 dBW at 1605 MHz to -20 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

ISED RSS-170§ 5.9.1: Band 1610-1626.5 MHz

For MESs with transmitting frequencies between 1610 MHz and 1626.5 MHz, the e.i.r.p. density of unwanted emissions shall not exceed the limits shown below, which are the same as those for the band 1605-1610 MHz, averaged over any 2 ms active transmission interval:

- -70 dBW/MHz at 1605 MHz, linearly interpolated to -10 dBW/MHz at 1610 MHz, for broadband emissions
- -80 dBW/kHz at 1605 MHz, linearly interpolated to -20 dBW/kHz at 1610 MHz, for discrete emissions

TEST PROCEDURE

KDB 971168 D01/D02

Measure wideband emissions using either:

RBW = 1MHz, VB = 3MHz

RBW < 1MHz, integrate over 1MHz if necessary

Measure narrowband emissions using:

RBW = 10kHz, VB = 30kHz as worst-case setting

Set detector = rms, sweep time ~ number of points x 2ms, and sweep multiple times with max hold enabled. When the detector is set to rms the number of points is set to exceed the minimum number required by ANSI C63.26 for average measurements. A peak detector may be used (e.g. to avoid slow sweep times for the narrowband emissions measurements) in lieu of average rms detection as this will provide a more conservative (higher) measured value than the rms value.

RESULTS

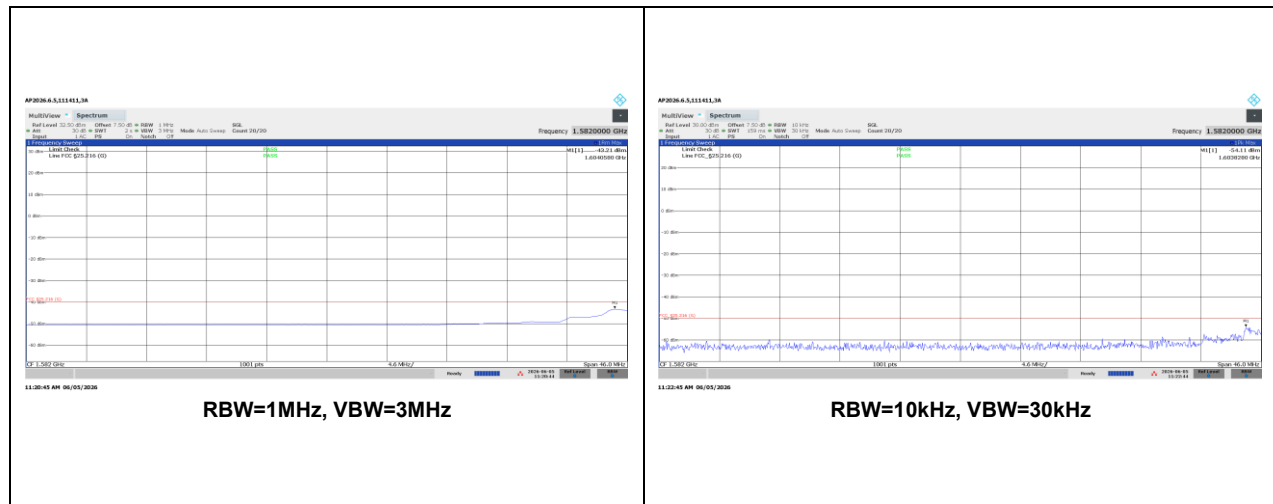
Both horizontal / vertical polarizations and low/ mid/ high channels were investigated on ANT 4. Low channel was found to be worst case for both antennas.

Date:	06-05-2026
Test Engineer:	111411
Configuration:	EUT + Charger
Mode:	TX
Chamber #:	03-RDE-A

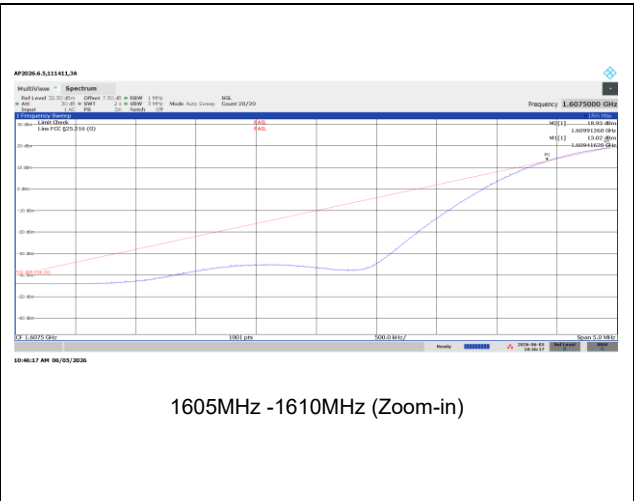
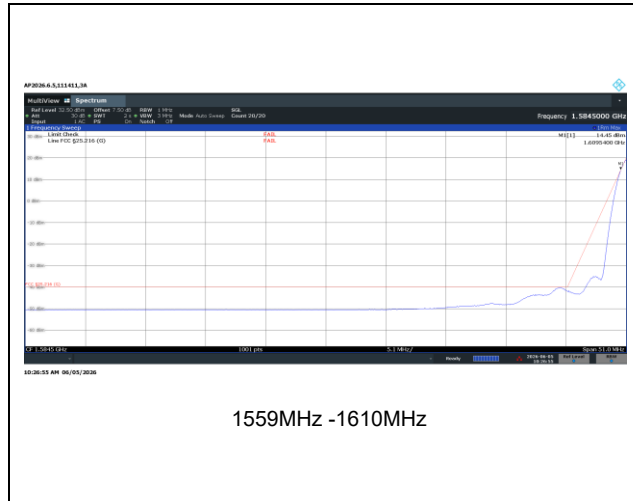
Offset Calculation= Antenna Factor + Amp/Cbl/Filtr/Pad + EIRP CF

Antenna Factor (dB/m)	Amp/Cbl/Filtr/Pad (dB)	EIRP CF	Offset (dB)
25.8	-30.1	11.8	7.5

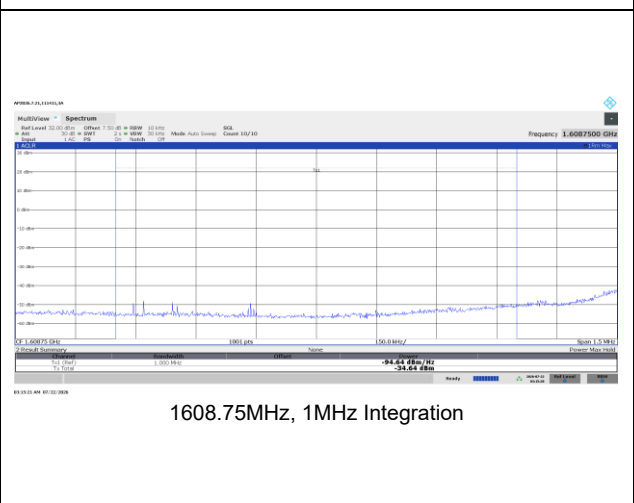
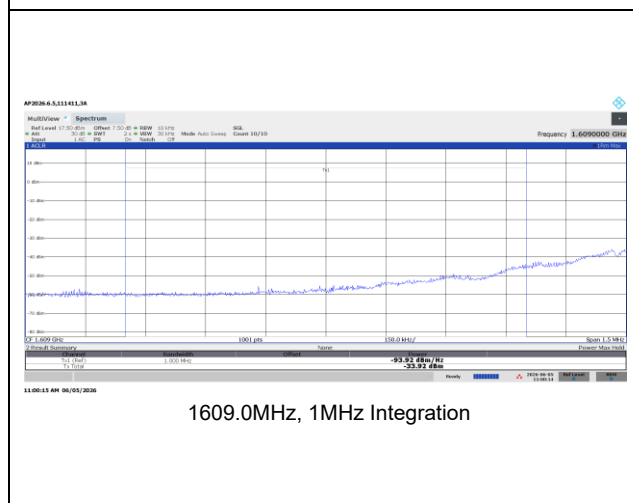
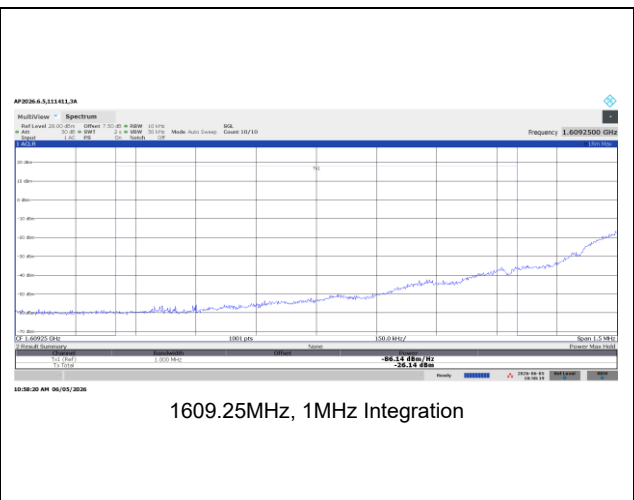
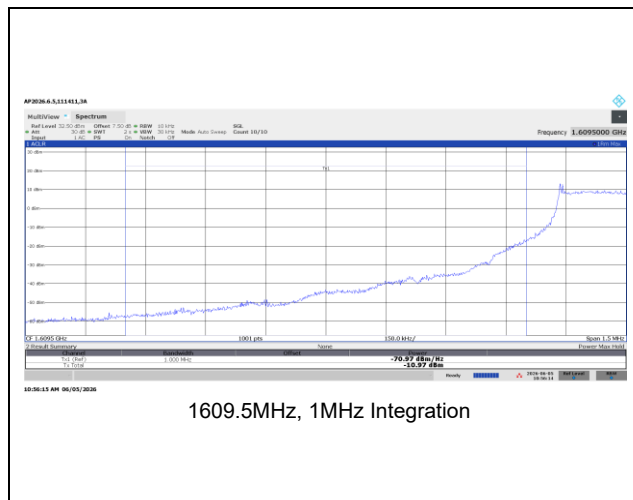
Plots for Determining Wide Band or Narrow Band Emissions

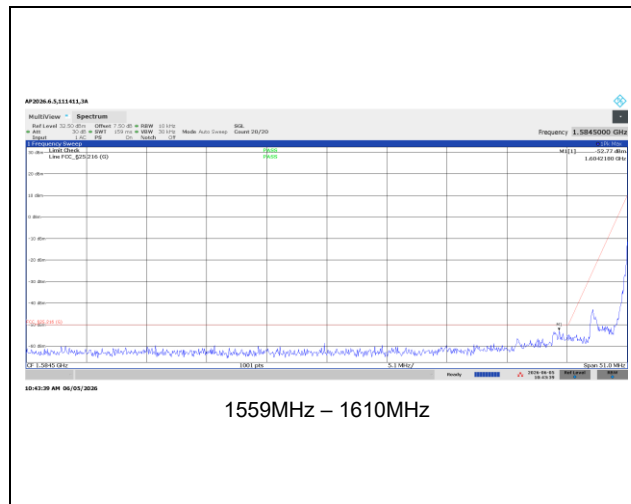


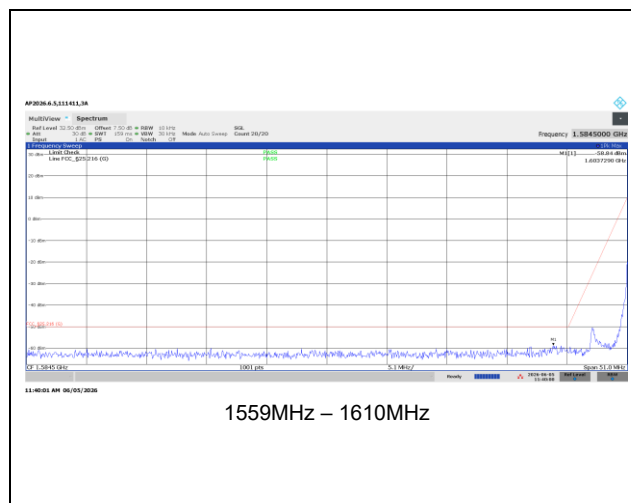
Note: It was found that the marker 1 @ 1604.0580 MHz frequency which belonged to wideband emission.

10.2.1. ANT 4 (HORIZONTAL)**Wideband Low Channel 1610.17MHz**

Plots below show passing result using integration method:



Narrowband Low Channel 1610.17MHz

10.2.2. ANT 4 (VERTICAL)**Wideband Low Channel 1610.17MHz****Narrowband Low Channel 1610.17MHz**

10.3. CARRIER-OFF STATE EMISSIONS (1559MHz – 1610MHz)

LIMITS

FCC §25.216

Limits on emissions from mobile earth stations for protection of aeronautical radionavigation-satellite service

(i) The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

ISED RSS-170§ 5.10: Carrier-off State Emissions

MESs with transmitting frequencies between 1 GHz and 3 GHz shall not exceed -80 dBW/MHz, which is the e.i.r.p. density of carrier-off state emissions in the band 1559-1610 MHz.

TEST PROCEDURE

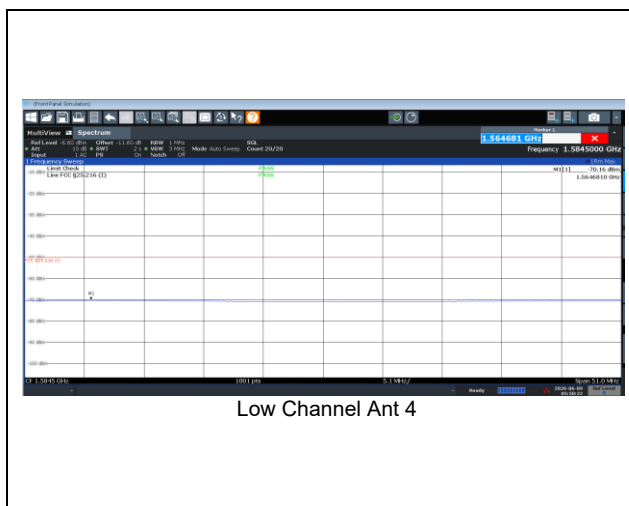
KDB 971168 D01/D02

Set RBW = 1MHz, VB = 3MHz, detector = rms, sweep time ~ number of points x 2ms, and sweep multiple times with max hold enabled.

RESULTS

No emissions were found on both horizontal and vertical polarization for ANT 4.

Date:	06-09-2026
Test Engineer:	111411
Configuration:	EUT + Charger
Mode:	RX (TX Off)
Chamber #:	03-RDE-A



11. SETUP PHOTOS

Refer to 15982168-EP1 for setup photos

12. APPENDIX A – SPOT CHECK EVALUATION

12.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3716 and A3717. These models are very similar, with only the following differences.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3716	BCG-E9195A	579C-E9195A	-Without FR2 -Added LTE B11, B21	eSIM	-
A3717	BCG-E9196A	579C-E9196A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	A3716

Note:

- All Models use the same System, Cellular and Connectivity radio electrical schematics.
- Removal of LTE/ 5GNR bands on models either done by software or de-population of related components. Please refer to data reuse test plan for details.
- All Models use the same Applications Processor and PMU.
- All Models use the same UICC hardware/software interface.
- All Models run the same Baseband firmware and iOS software.

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

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

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

12.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3717

A3717 SPOT CHECK RESULTS										
Equipment Class / Technology	Worst Mode	Test Item		Channel	Measured Frequency (MHz)	Original Model: A3716	Sub Model: A3717	Delta (dB or MHz)	Margin	Remarks
						FCC ID : BCG-E9195A IC : 579C-E9195A	FCC ID: BCG-E9196A IC : 579C-E9196A			
TNE / MSS	Ant 4	Avg EIRP Power (dBm)	Fundamental (-3.6dBi)	Mid	1618.40	25.10	25.10	0.00	-3.60	Note 1
		Avg Additional Unwated Emission (dBm)	1605 - 1610 MHz (Horizontal)	Low	1609.5	-10.97	-7.25	3.72	-24.97	Note 1
		Pk RSE (dBm)	1000 - 18000 MHz (Horizontal)	Low	3220.35	-60.56	-62.18	-1.62	-47.56	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.