

TEST REPORT

Report Number: 15941282-E2V2

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

Model : A3575 (Parent)
A3634, A3635 (Variants)

Brand : APPLE

FCC ID : BCG-E9145A (Parent)
BCG-E9147A, BCG-E9148A (Variants)

IC : 579C-E9145A (Parent)
579C-E9147A, 579C-E9148A (Variants)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 4
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
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Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538 U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-12-15	Initial Issue	Tony Li
V2	2025-12-22	Addressed TCB comments in Sections 6.5, 7, 9.4, 10.3, & 13	Helen Nguyen / Jay Solanki

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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	A3575 (Parent) A3634, A3635 (Variants)	
Brand	APPLE	
FCC ID	BCG-E9145A (Parent) BCG-E9147A, BCG-E9148A (Variants)	
IC	579C-E9145A (Parent) 579C-E9147A, 579C-E9148A (Variants)	
EUT Description	SMARTPHONE	
Serial Number (Parent)	C07HJ80002C00016LY (Conducted) FK4KVKD7K2, LCQJWYHQKN (Radiated)	
Serial Number (Variant, A3634)	C07HJ00000M00016M2 (Conducted) GF4Y1XCGWP (Radiated)	
Serial Number (Variant, A3635)	C07HM3000UL00016M1 (Conducted) L2FXLNQQ44 (Radiated)	
Sample Receipt Date	2025-08-13	
Date Tested	2025-08-15 to 2025-12-01	
Applicable Standards	CFR 47 Part 15 Subpart C ISED RSS-247 Issue 4 ISED RSS-GEN Issue 5 + A1 + A2	
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 ensure 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:
		
Frank Ibrahim Staff Engineer UL Verification Services, Inc.	Tony Li Lead Test Engineer UL Verification Services, Inc.	Helen Nguyen Laboratory Engineer UL Verification Services, Inc.

2. TEST RESULTS SUMMARY

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

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

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result
Duty Cycle	See Comment		Reporting purposes only
99% OBW	-	RSS-GEN 6.7	Reporting purposes only
6dB BW	15.247 (a) (2)	RSS-247 6.3.1 (a)	Complies
Output Power	15.247 (b) (3)	RSS-247 6.3.2	Complies
PSD	15.247 (e)	RSS-247 6.3.1 (b)	Complies
Conducted Spurious Emissions	15.247 (d)	RSS-247 6.6	Complies
Radiated Emissions	15.209, 15.205	RSS-GEN 8.9, 8.10	Complies
AC Mains Conducted Emissions	15.207	RSS-Gen 8.8	Complies

3. TEST METHODOLOGY

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

- ANSI C63.10-2020 (FCC)
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- KDB 558074 D01 15.247 Meas Guidance
- KDB 414788 D01 Radiated Test Site
- KDB 662911 D01 Multiple Transmitter Output
- KDB 484596 D01 Referencing Test Data
- RSS-GEN Issue 5 + A1 + A2
- RSS-247 Issue 4
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 (ISED)

4. FACILITIES AND ACCREDITATION

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

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

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

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

5.2. DECISION RULES

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

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{LAB}
Conducted Antenna Port Emission Measurement	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using a Power Meter	0.45 dB (Ave), 1.30 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

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 36.5 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

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

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

DTS Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power (dBm)	Output Power (mW)
2402 - 2480	LE1M	Ant 4	High Power	20.69	117.22
		Ant 3	High Power	20.78	119.67
		BF, Ant 4 + Ant 3	High Power	22.72	187.07
2404 - 2478	LE2M	Ant 4	High Power	20.84	121.34
		Ant 3	High Power	20.81	120.50
		BF, Ant 4 + Ant 3	High Power	22.94	196.79

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain and type (IFA), as provided by the manufacturer' are as follows:

Frequency Range (GHz)	Antenna Type	Antenna Peak Gain				Cable Loss	
		ANT 4 (dBi)	ANT 3 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)	ANT 4 (dB)	ANT 3 (dB)
2.4	IFA	-3.70	-0.80	-2.01	0.88	1.70	1.80

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware and software installed during testing were LuckD23D90.

6.5. WORST-CASE CONFIGURATION AND MODE

EUT was investigated in three orthogonal orientations X (Flatbed), Y (Landscape) and Z (Portrait). The following table exhibits the worst-case orientation. The full tests of the EUT have been made upon the orientations shown in the table below.

Band	ANT4	ANT3	ANT4+3
2.4GHz	X-Flatbed	X-Flatbed	X-Flatbed

For conducted test, High-power mode is fully tested, with additional test on the low power mode on output power and conducted spurious emission.

For Radiated band edge test, all test modes have been investigated with power setting equal or higher than tune up power as worst-case scenario and no emissions at both lower and upper band edges were found. Testing was performed for both Low and High Power values.

For the radiated spurious harmonics testing, we have investigated both SISO and 2TX Beamforming modes under low power and high power, only high power mode data is included in the report, as this represents the worst case.

2TX Beamforming modes were used to perform on radiated harmonic spurious final test to cover all SISO modes. Max power was tuned to maximum based among all the modes. For testing purposes, radiated harmonics spurious below 30MHz, below 1GHz, 1-18GHz L/M/H channels, 18-26GHz, and power line conducted emissions were performed with the EUT set at the 2TX Beamforming mode with power setting equal or higher than tune up power as worst-case scenario.

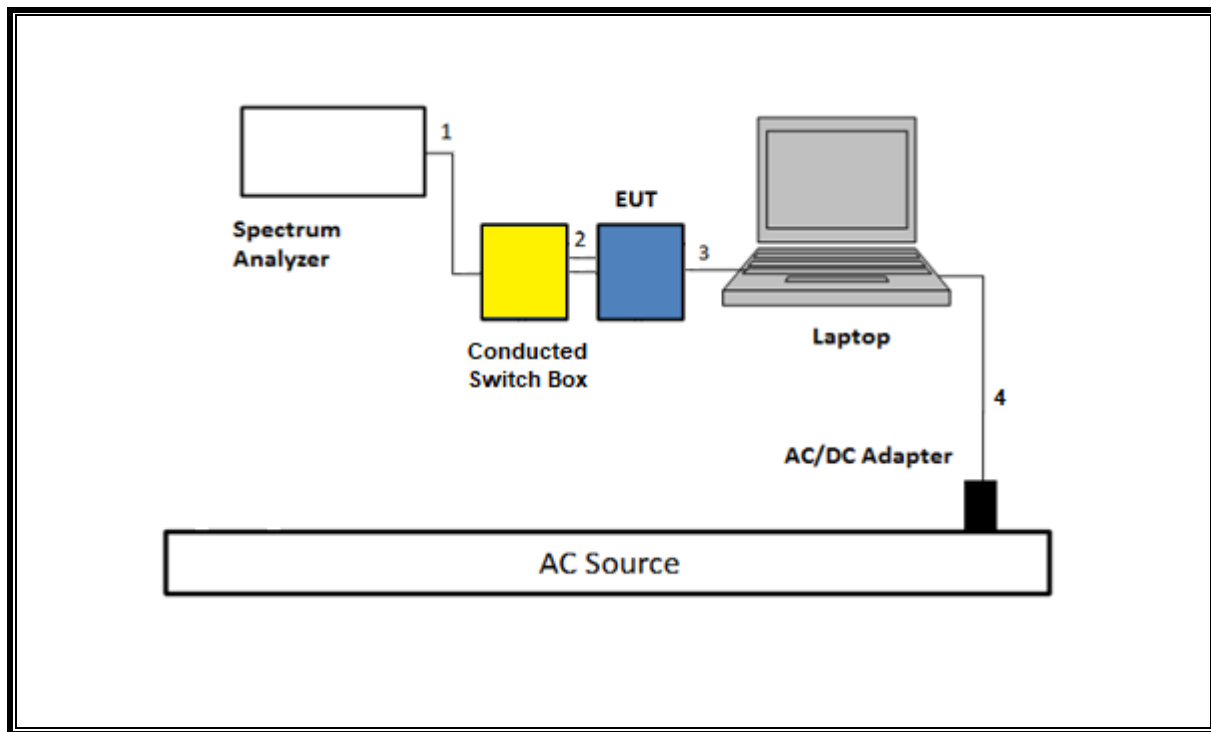
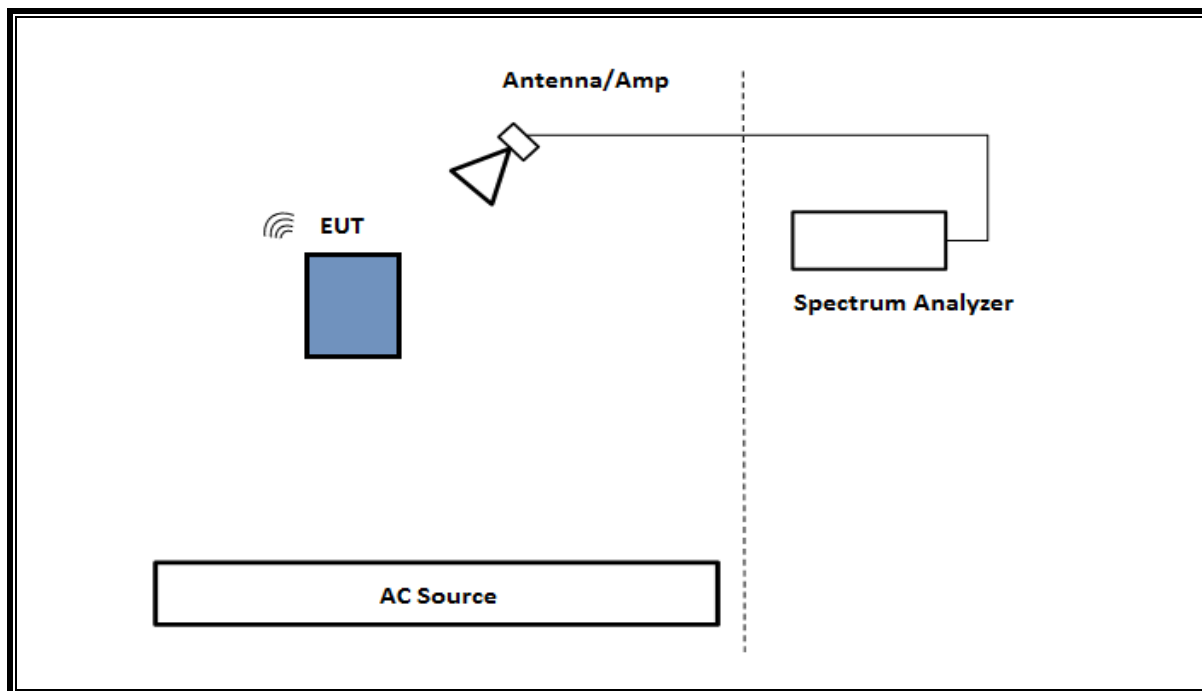
Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no radiated emissions found below 30MHz within 20dB of the limit.

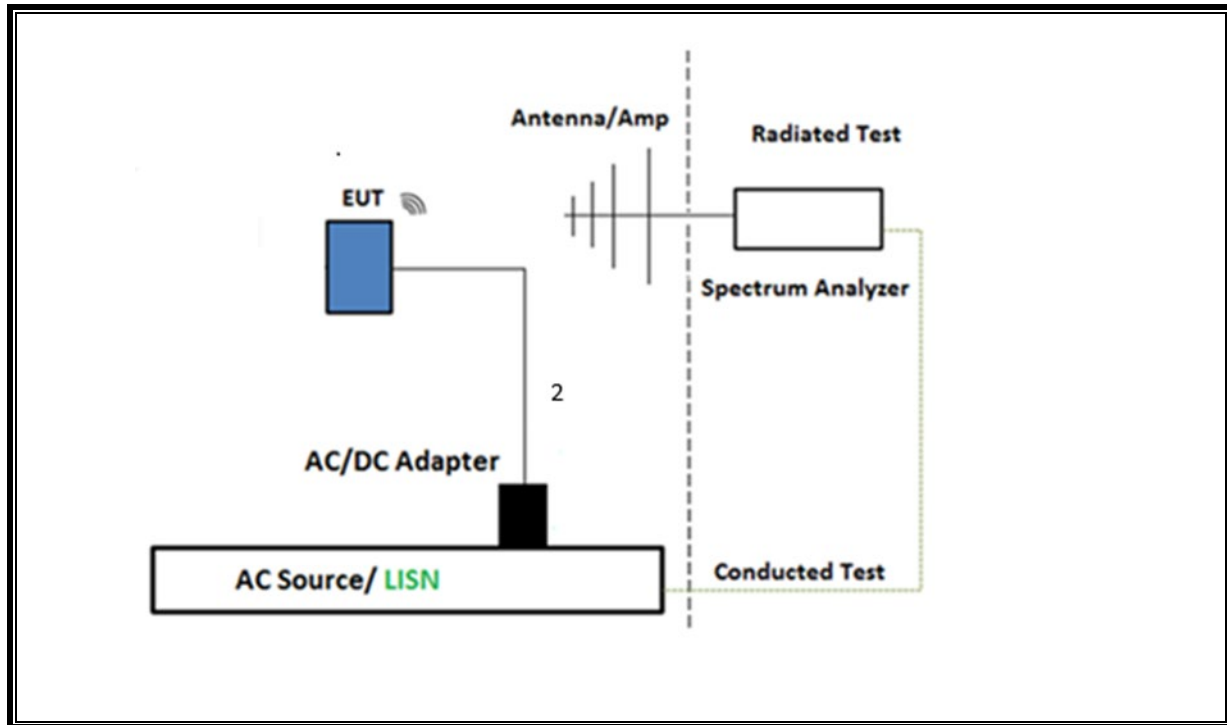
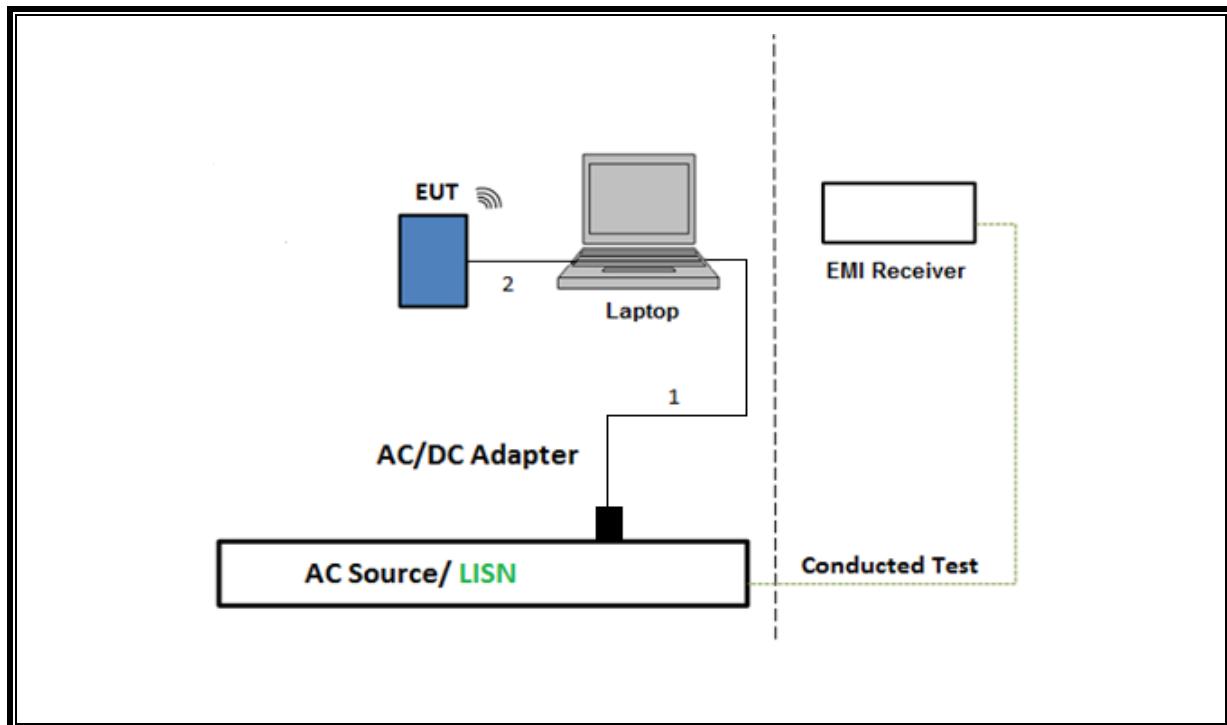
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter		Apple	A1720	C3D8417A7R93KVPA8		DoC
Conducted Switch Box		UL	n/a	208281		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To the spectrum Analyzer
2	Antenna	1	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shielded	1.0	N/A
4	DC	1	DC	Shielded	2.0	N/A
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	AC	Un-Shielded	2	N/A
2	USB	1	USB-C	Un-Shielded	1	N/A

TEST SETUP

The EUT setup is shown below. Test software exercised the radio card.

SETUP DIAGRAM FOR CONDUCTED TESTS**SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz (1 to 26GHz)**

SETUP DIAGRAM FOR RADIATED EMISSIONS 30-1000MHz and AC LINE CONDUCTED TEST**TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

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	ID Num	Cal Due
Conducted Switch Box	UL-FR1	CSB	245775	2026-06-30
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	259054	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90419	2026-07-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	85313	2026-01-31
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	219909	2026-08-31
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	219911	2026-08-31
Antenna, Horn 1-18GHz	Antenna, Horn 1-18GHz	3117	222740	2026-09-29
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171389	2026-03-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201497	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200897	2026-04-30
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12 Port	217255	2026-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191430	2026-02-28
Antenna, BroadBand Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	232075	2026-04-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	230308	2026-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2026-02-28
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81140	2026-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	Ampical	AMP18G26.5-60	236106	2026-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	84797	2026-10-31
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225079	2026-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2026-02-28

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	171646	2026-02-28
LISN for Conducted Emissions CISPR-16	Fischer Custom Communications	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31
Transient Limiter	TE	TBFL1	207996	2026-09-30
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5	
Conducted Software	UL	Antenna Port	Ver 2.23	
Conducted Software	UL	Station Tool	Ver 7.1, 9.0, 10.2	
AC Line Conducted Software	UL	UL EMC	Ver 9.5	

8. MEASUREMENT METHOD

Test Item	Test Method
On Time and Duty Cycle	ANSI C63.10 Section 11.6
6 dB BW	ANSI C63.10 Subclause -11.8.1 RBW $\geq$ DTS BW
99% BW	ANSI C63.10, Subclause 6.9.3.
Conducted Output Power (AVG)	ANSI C63.10 Subclause -11.9.2.3.2 Method AVGPM G (Measurement using an RF average-reading power meter)
Conducted Output Power (PK)	ANSI C63.10 Subclause 11.9.1.2 Method PKPM1 Peak-reading power meter
Power Spectral Density	ANSI C63.10 Subclause 11.10.2 Method PKPSD (peak PSD)
Radiated emissions non-restricted frequency bands	ANSI C63.10 Subclause -11.11 & Clause 13
Radiated emissions restricted frequency bands	ANSI C63.10 Subclause -11.12.1 & Clause 13
Conducted emissions in restricted frequency bands	ANSI C63.10 Subclause -11.12.2
Band-edge (Peak Detection)	ANSI C63.10 Subclause - 11.12.2.4 and 13: Peak Measurement
Band-edge (Trace Averaging)	ANSI C63.10 Subclause - 11.12.2.5 and 13: Average Measurement
Radiated Spurious Emissions Below 30MHz	ANSI C63.10 Subclause 6.4 & Clause 13
AC Power Line Conducted Emissions	ANSI C63.10, Subclause 6.2

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

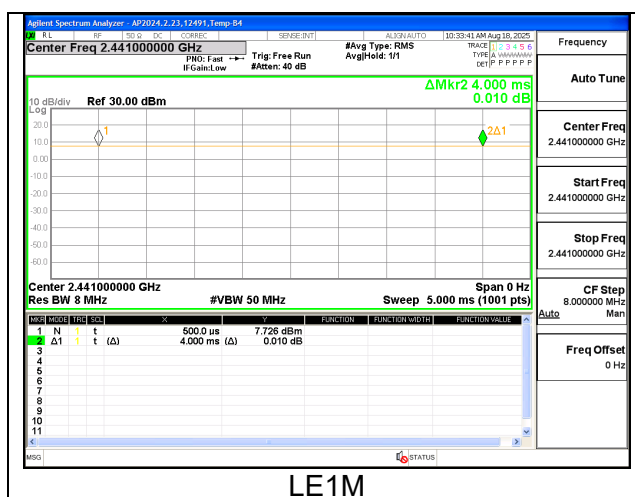
ANSI C63.10, Section 11.6: Zero-Span Spectrum Analyzer Method

ON TIME AND DUTY CYCLE RESULTS

Worst-Case Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
LE1M	4.00	4.00	1.000	100.00	0.00	0.010
LE2M	4.00	4.00	1.000	100.00	0.00	0.010

Note: The duty cycle of 2TX is the same as that of 1TX.

DUTY CYCLE PLOTS



9.2. 99% BANDWIDTH LIMITS

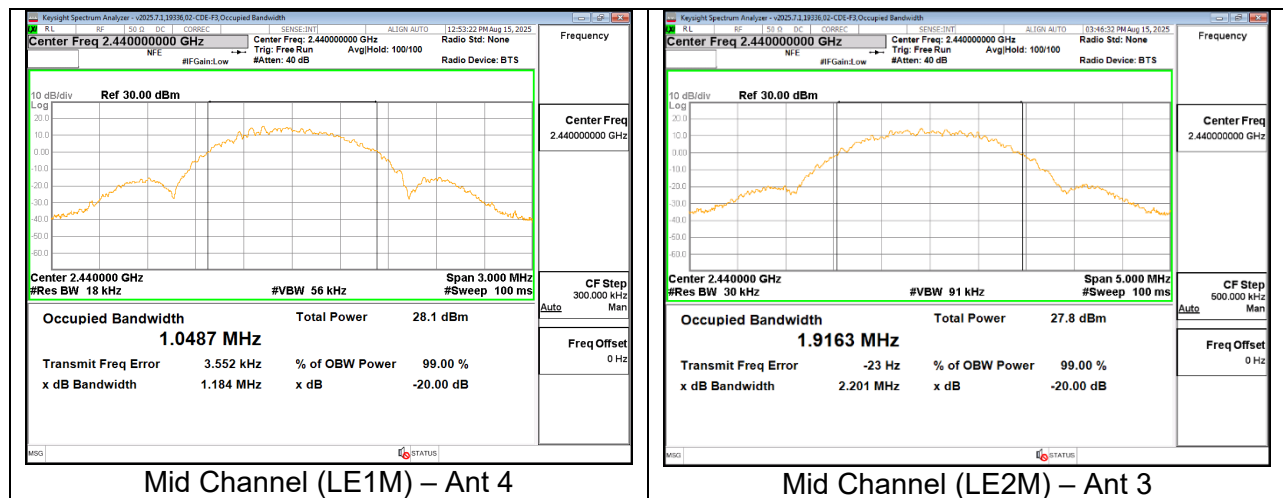
None; for reporting purposes only.

RESULTS

Both SISO and MIMO modes have been investigated. And the results are similar between these modes. The SISO mode data represents the MIMO mode and is reported as below.

Only High-Power modes results are reported; it covers all Low Power modes. Only Mid channel plot is reported to show the analyzer's settings.

Worst-Case Mode (SISO)	Frequency (MHz)	Channel Number	99% Bandwidth (MHz)	
			Ant 4	Ant 3
LE1M	2402	Low	1.0490	1.0483
	2440	Mid	1.0487	1.0487
	2480	High	1.0488	1.0492
LE2M	2404	Low	1.9159	1.9178
	2440	Mid	1.9162	1.9163
	2478	High	1.9172	1.9194



9.3. 6dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

RSS-247 6.3.1 (a)

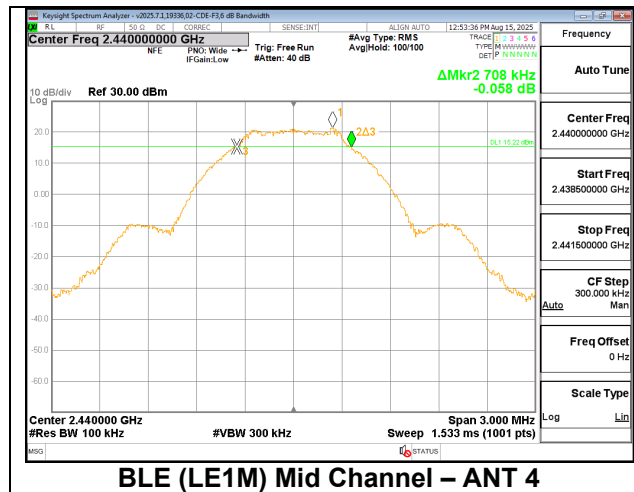
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

The 6dB bandwidth was measured for the narrowest bandwidth mode, BLE LE1M as the worst case mode to demonstrate compliance with the minimum required bandwidth of 500 kHz to cover all modes.

Only High-Power modes results are reported; it covers all Low Power modes. Only Mid channel plot is reported to show the analyzer's settings.

Mode (SISO)	Frequency (MHz)	Channel	6dB Bandwidth (MHz)	
			ANT 4	ANT 3
LE1M	2402	Low	0.690	0.711
	2440	Mid	0.708	0.705
	2480	High	0.735	0.717



9.4. OUTPUT POWER AND POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (b) (3) & (e)

RSS-247 6.3.2 & 6.3.1 (b)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

Measurements are performed using a wideband RF power meter.

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

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output; therefore, the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are correlated for power and PSD due to the device supporting Beamforming mode. The directional gains are as follows:

Frequency Range (GHz)	Antenna Type	Antenna Peak Gain				Cable Loss	
		ANT 4 (dBi)	ANT 3 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)	ANT 4 (dB)	ANT 3 (dB)
2.4	IFA	-3.70	-0.80	-2.01	0.88	1.70	1.80

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10 section 14.6.3

$$\text{Uncorrelated Directional Gain} = 10 * \text{LOG} \left[\frac{10^{\frac{\text{ANT4}}{10}} + 10^{\frac{\text{ANT3}}{10}}}{2} \right]$$

$$\text{Correlated Directional Gain} = 10 * \text{LOG} \left[\frac{\left(10^{\frac{\text{ANT4}}{20}} + 10^{\frac{\text{ANT3}}{20}} \right)^2}{2} \right]$$

Sample Calculation:

ANT 4 = -3.70 dB

ANT 3 = -0.80 dB

$$\text{Uncorrelated Directional Gain} = 10 * \text{LOG} \left[\frac{10^{\frac{-3.70}{10}} + 10^{\frac{-0.80}{10}}}{2} \right] = -2.01 \text{ dBi}$$

$$\text{Correlated Directional Gain} = 10 * \text{LOG} \left[\frac{\left(10^{\frac{-3.70}{20}} + 10^{\frac{-0.80}{20}} \right)^2}{2} \right] = 0.88 \text{ dBi}$$

RESULTS

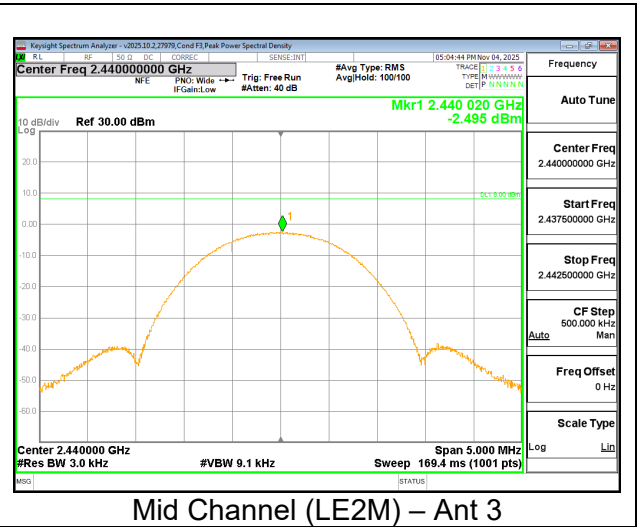
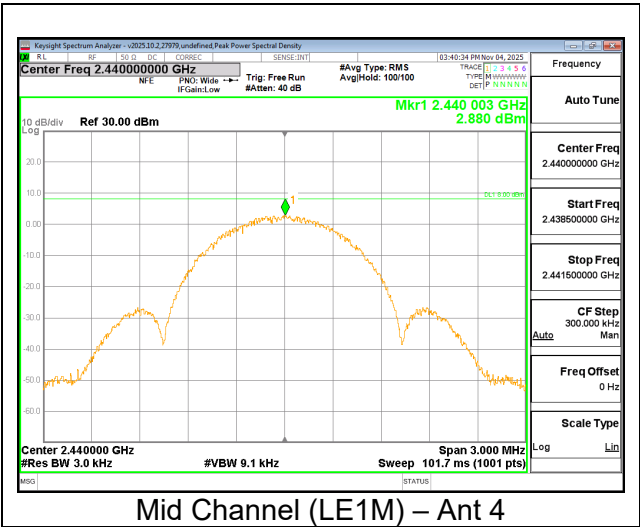
Only the mid-channel plot is reported to show the analyzer's settings.

Note: RBW for PSD measurement was set to a value that is higher than or equal to 3kHz.

9.4.1. SISO MODE

2.4G (SISO)	
Ant 4 (dBi)	-3.7
Ant 3 (dBi)	-0.8

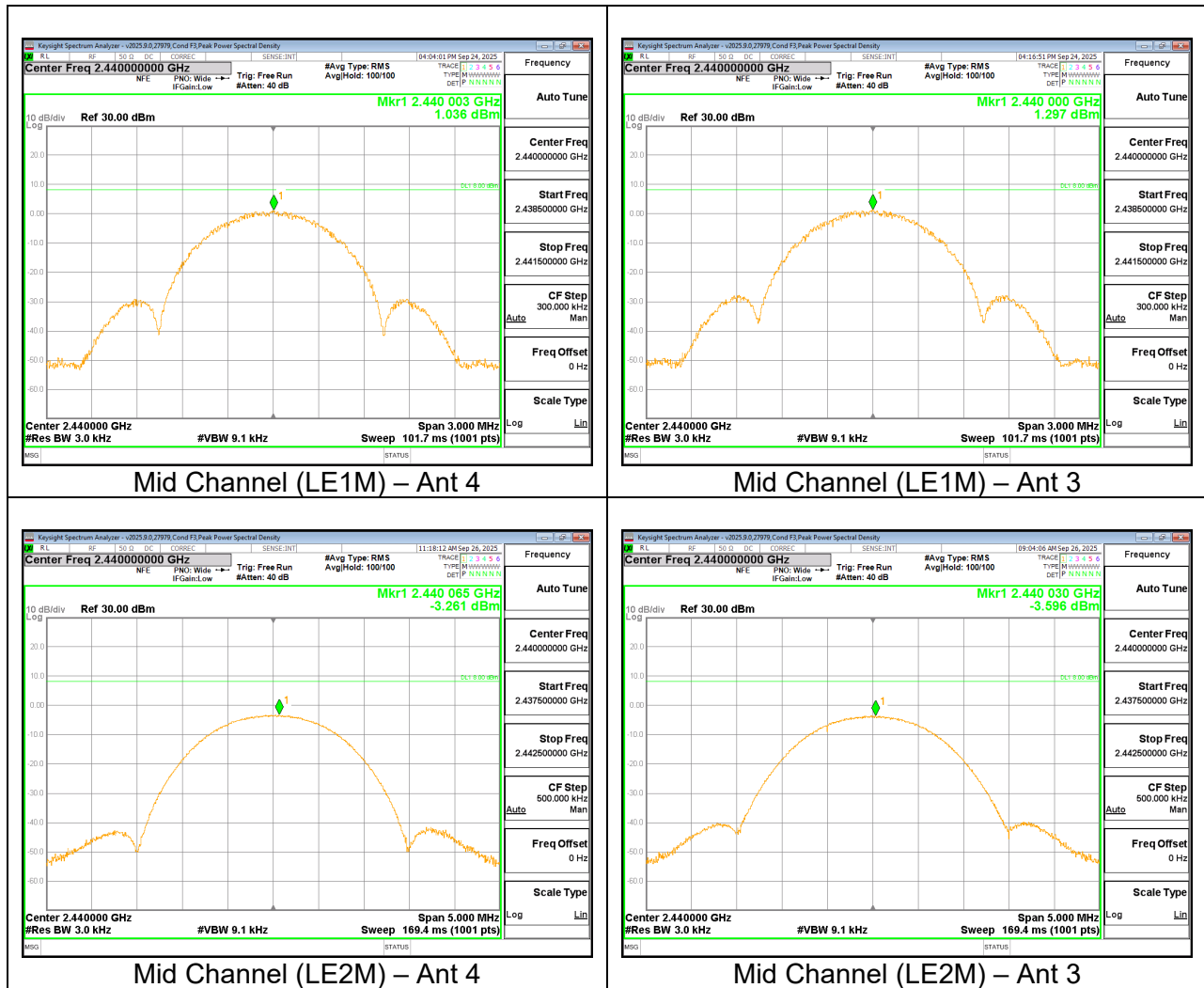
2.4G (SISO)	Power Config.	Freq (MHz)	Ch. #	Power Limit (dBm)		Output Power (dBm)		PSD Limit (dBm/3kHz)		PSD (dBm/kHz)	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
LE1M	High	2402	Low	30	30	20.67	20.63	8	8	3.025	2.974
		2440	Mid			20.69	20.78			2.880	3.069
		2480	High			20.52	20.59			2.678	2.896
LE2M	High	2404	Low	30	30	20.84	20.81	8	8	-2.480	-2.108
		2440	Mid			20.69	20.57			-2.121	-2.495
		2478	High			20.68	20.76			-2.074	-2.075



9.4.2. MIMO TXBF MODE

2.4G (MIMO TXBF)	
Un-Correlated Gain (dBi)	-2.01
Correlated Gain (dBi)	0.88

UNII-1 (MIMO TXBF)	Power Config.	Freq (MHz)	Ch. #	Power Limit (dBm)	Output Power (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/3kHz)	PSD (dBm/kHz)		Total MIMO Corrected PSD (dBm/kHz)
					Ant 4	Ant 3			Ant 4	Ant 3	
LE1M	High	2402	Low	30	19.66	19.76	22.72	8	0.859	1.121	4.002
		2440	Mid		19.69	19.73	22.72		1.036	1.297	4.179
		2480	High		19.70	19.49	22.61		1.346	1.202	4.285
LE2M	High	2404	Low		19.91	19.86	22.90		-3.531	-3.387	-0.448
		2440	Mid		19.92	19.94	22.94		-3.261	-3.596	-0.415
		2478	High		19.90	19.89	22.91		-3.277	-3.551	-0.402



9.5. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband RF power meter.

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

RESULTS

9.5.1. SISO MODE

2.4G (SISO)	
Ant 4 (dBi)	-3.7
Ant 3 (dBi)	-0.8

2.4G (SISO)	Power Config.	Freq (MHz)	Ch. #	Average Power (Gated) (dBm)	
				Ant 4	Ant 3
LE1M	High	2402	Low	20.46	20.41
		2440	Mid	20.48	20.49
		2480	High	20.27	20.39
	Low	2402	Low	8.91	8.90
		2440	Mid	8.89	8.91
		2480	High	8.96	8.83
LE2M	High	2404	Low	20.49	20.42
		2440	Mid	20.37	20.25
		2478	High	20.32	20.43
	Low	2404	Low	8.94	8.94
		2440	Mid	8.91	8.84
		2478	High	8.93	8.92

9.5.2. MIMO TXBF MODE

2.4G (MIMO TXBF)	
Un-Correlated Gain (dBi)	-2.01
Correlated Gain (dBi)	0.88

UNII-1 (MIMO TXBF)	Power Config.	Freq (MHz)	Ch. #	Average Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)
				Ant 4	Ant 3	
LE1M	High	2402	Low	19.43	19.49	22.47
		2440	Mid	19.42	19.45	22.45
		2480	High	19.49	19.26	22.39
	Low	2402	Low	5.77	5.77	8.78
		2440	Mid	5.96	5.94	8.96
		2480	High	5.78	5.72	8.76
LE2M	High	2404	Low	19.45	19.47	22.47
		2440	Mid	19.46	19.49	22.49
		2478	High	19.43	19.46	22.46
	Low	2404	Low	5.84	5.96	8.91
		2440	Mid	5.96	5.98	8.98
		2478	High	5.92	5.93	8.94

9.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

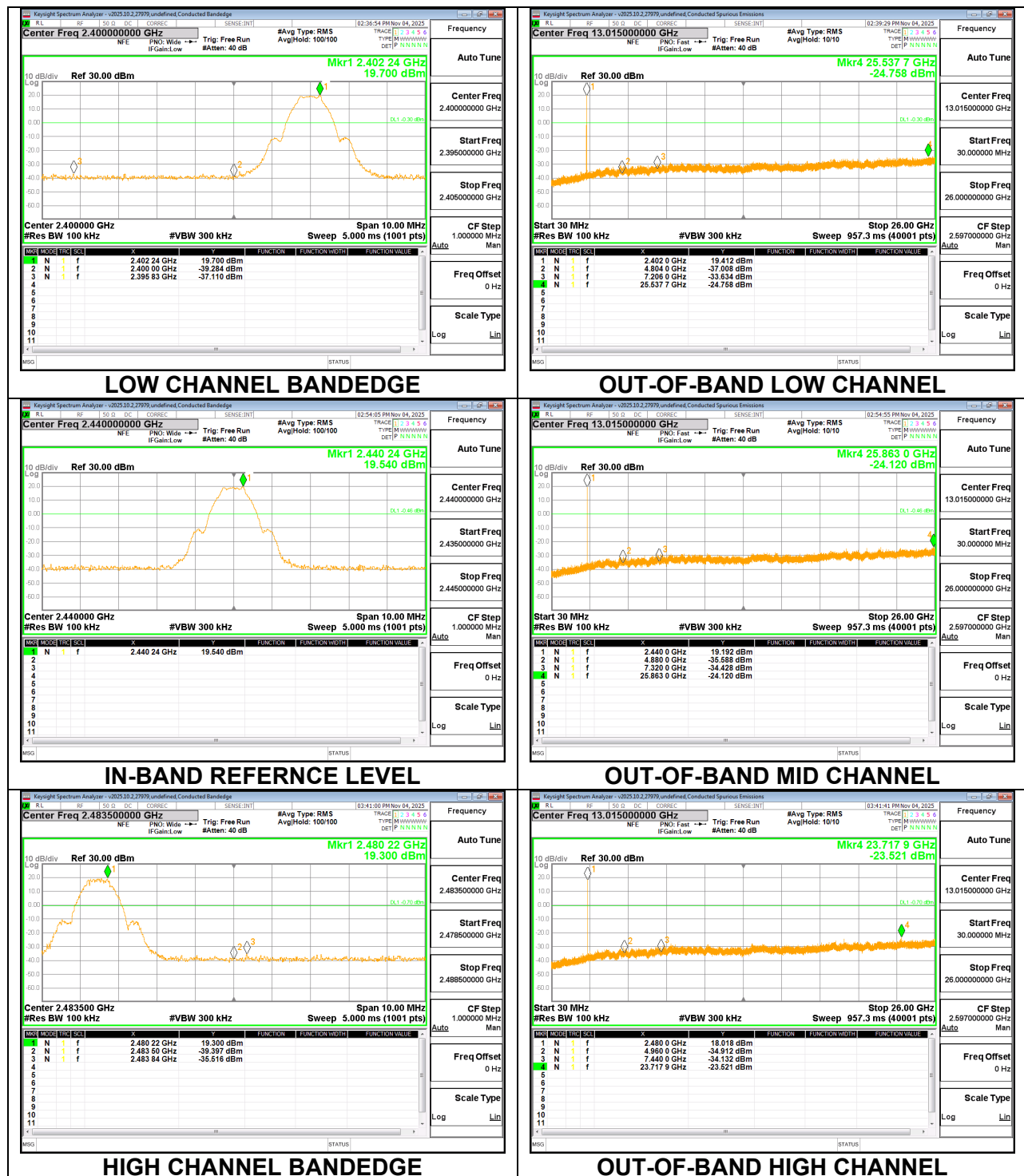
RSS-247 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

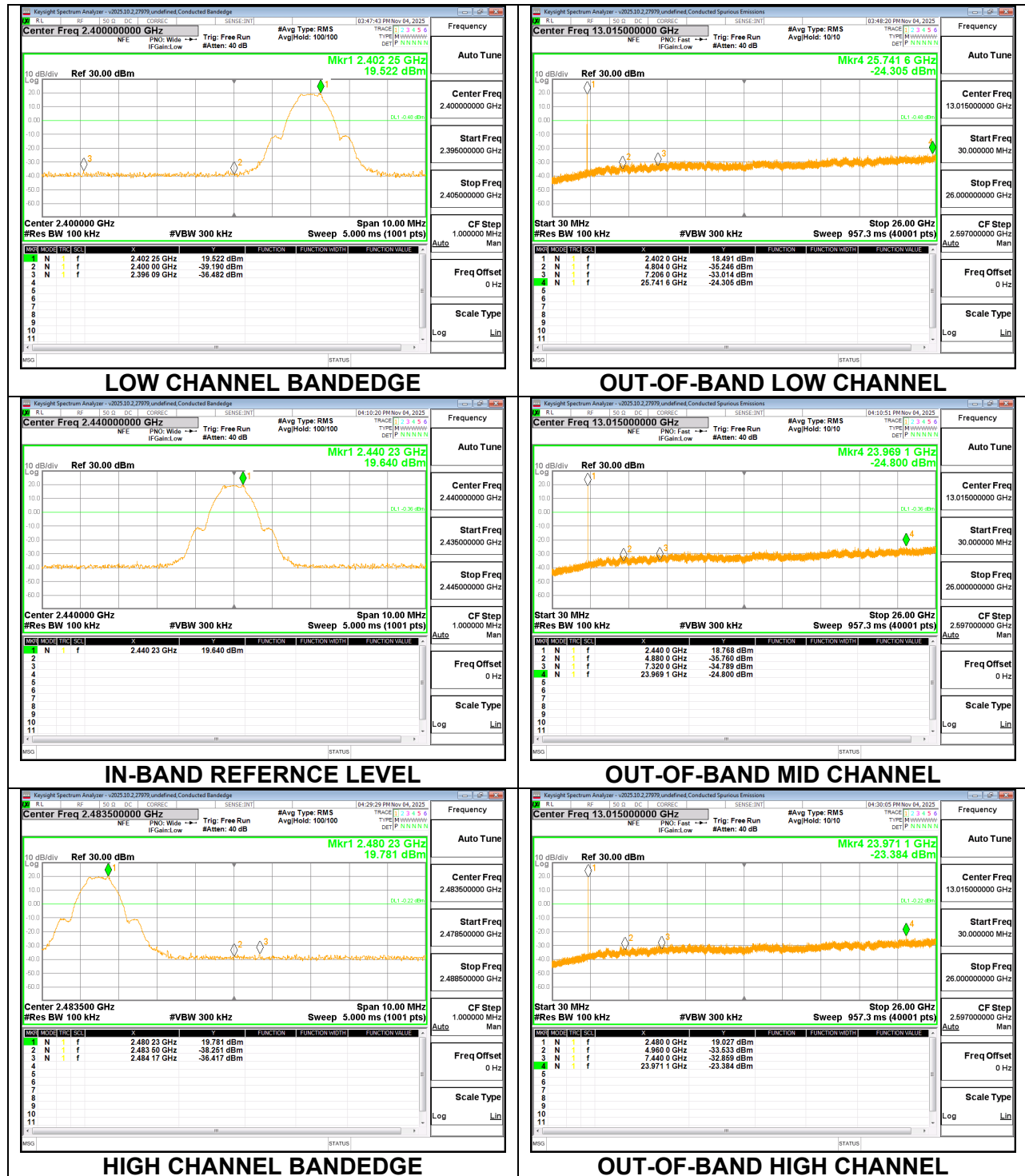
RESULTS

9.6.1. HIGH POWER LE1M

ANT 4

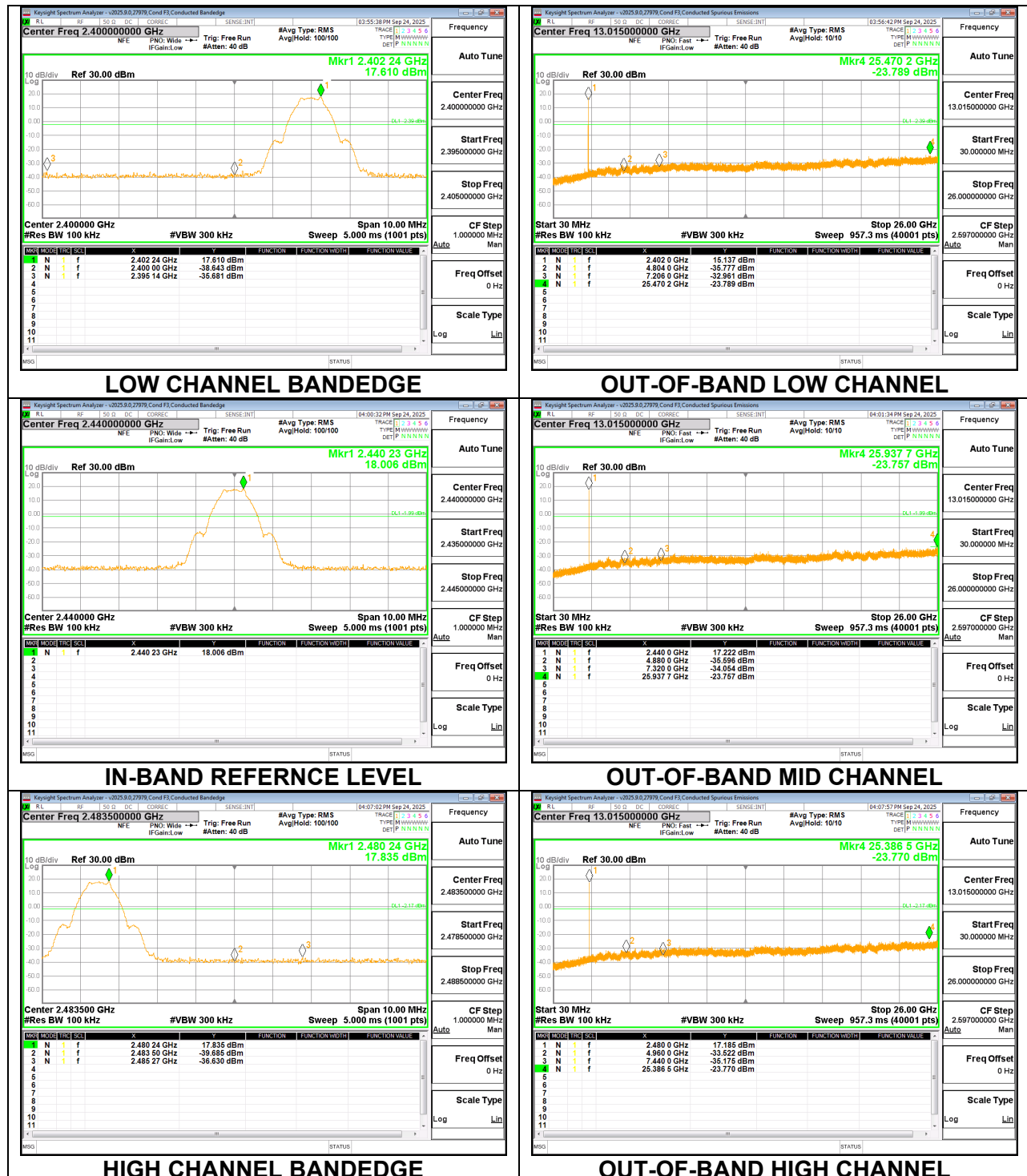


ANT 3

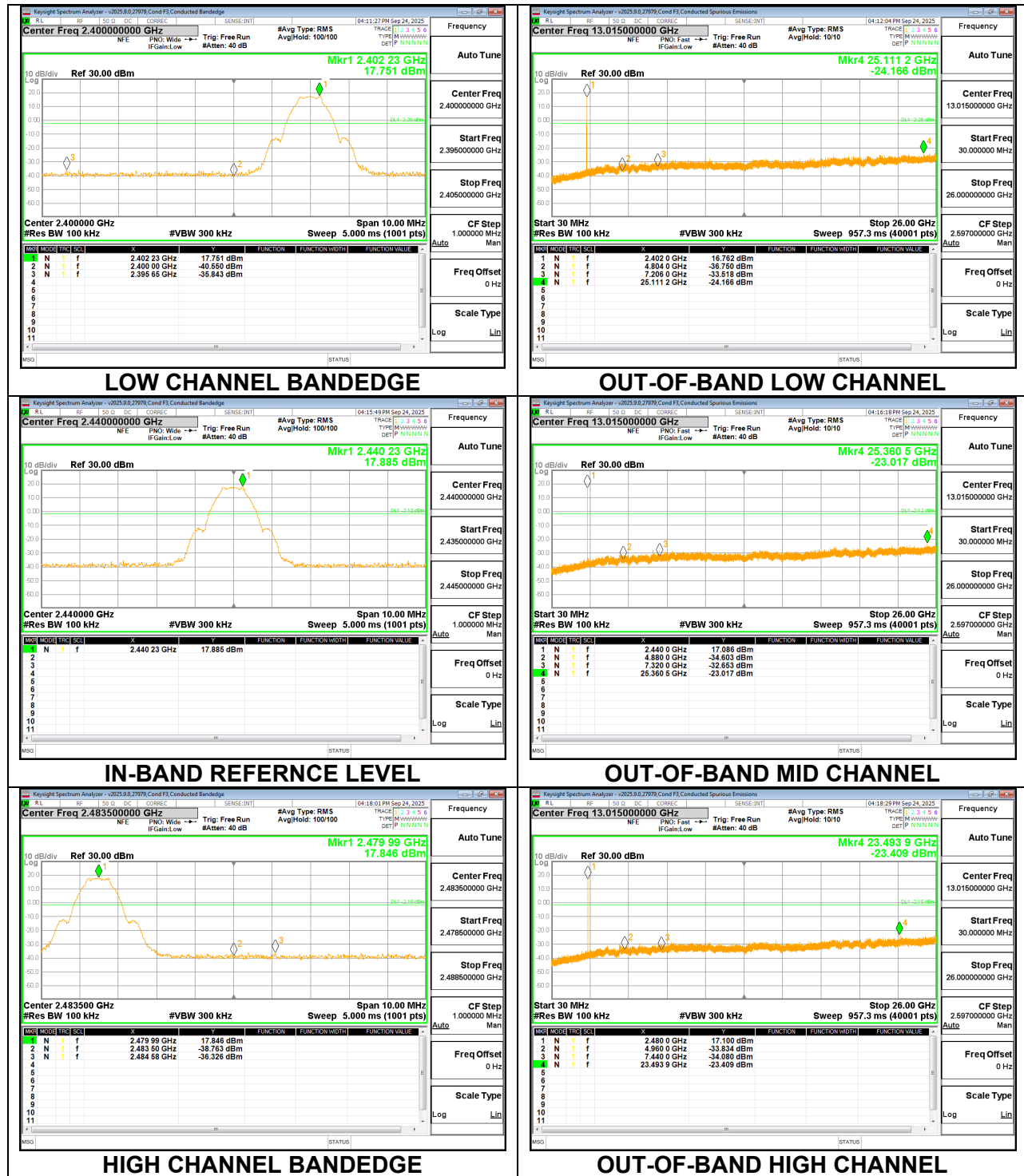


9.6.2. HIGH POWER LE1M MIMO TXBF

ANT 4

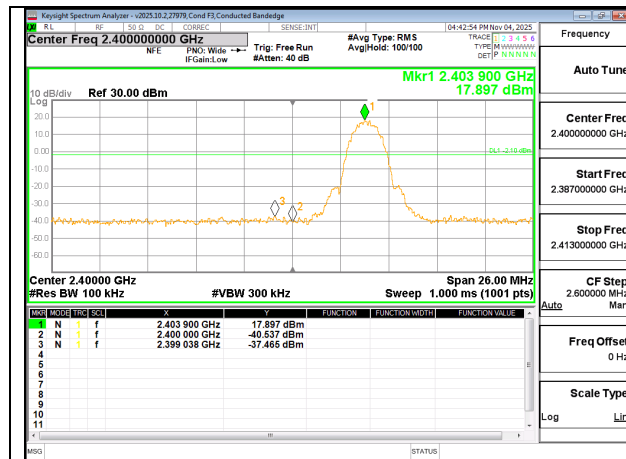


ANT 3

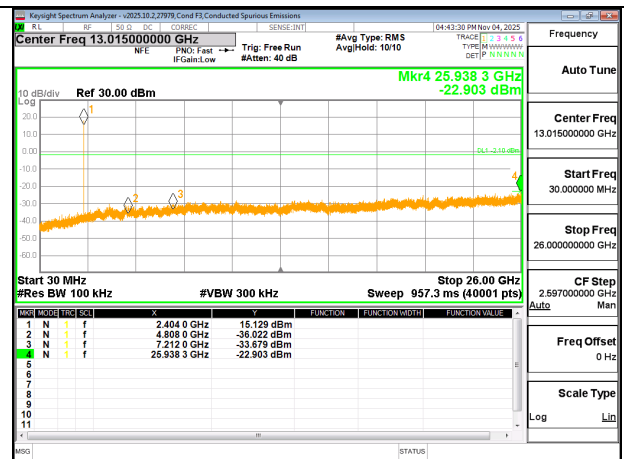


9.6.3. HIGH POWER LE2M

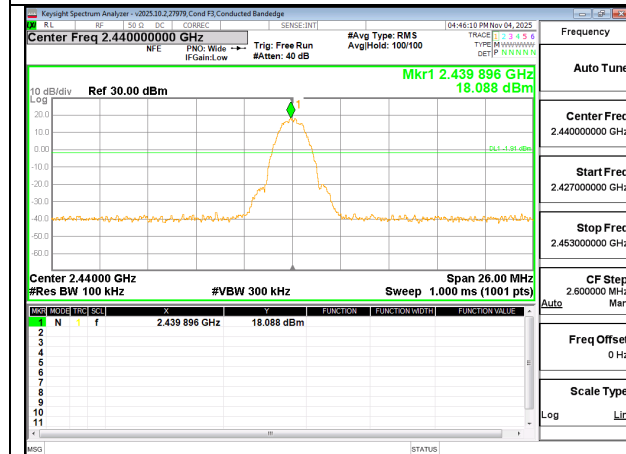
ANT 4



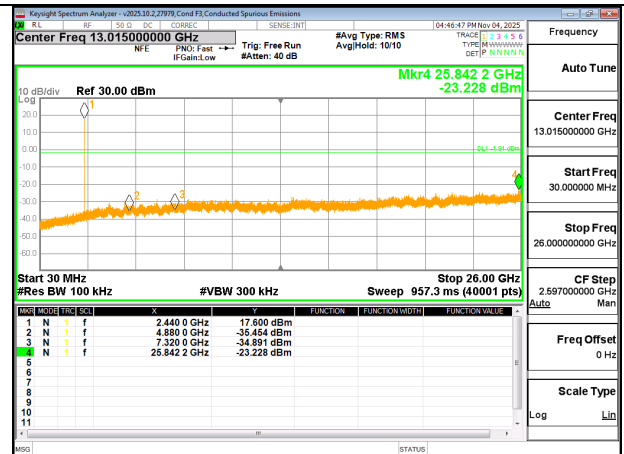
LOW CHANNEL BANDEDGE



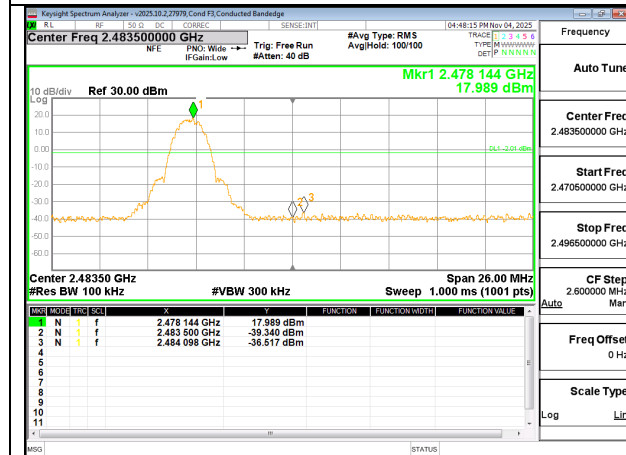
OUT-OF-BAND LOW CHANNEL



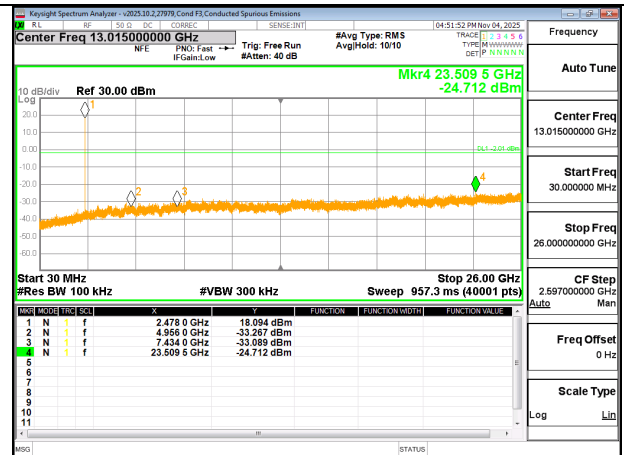
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

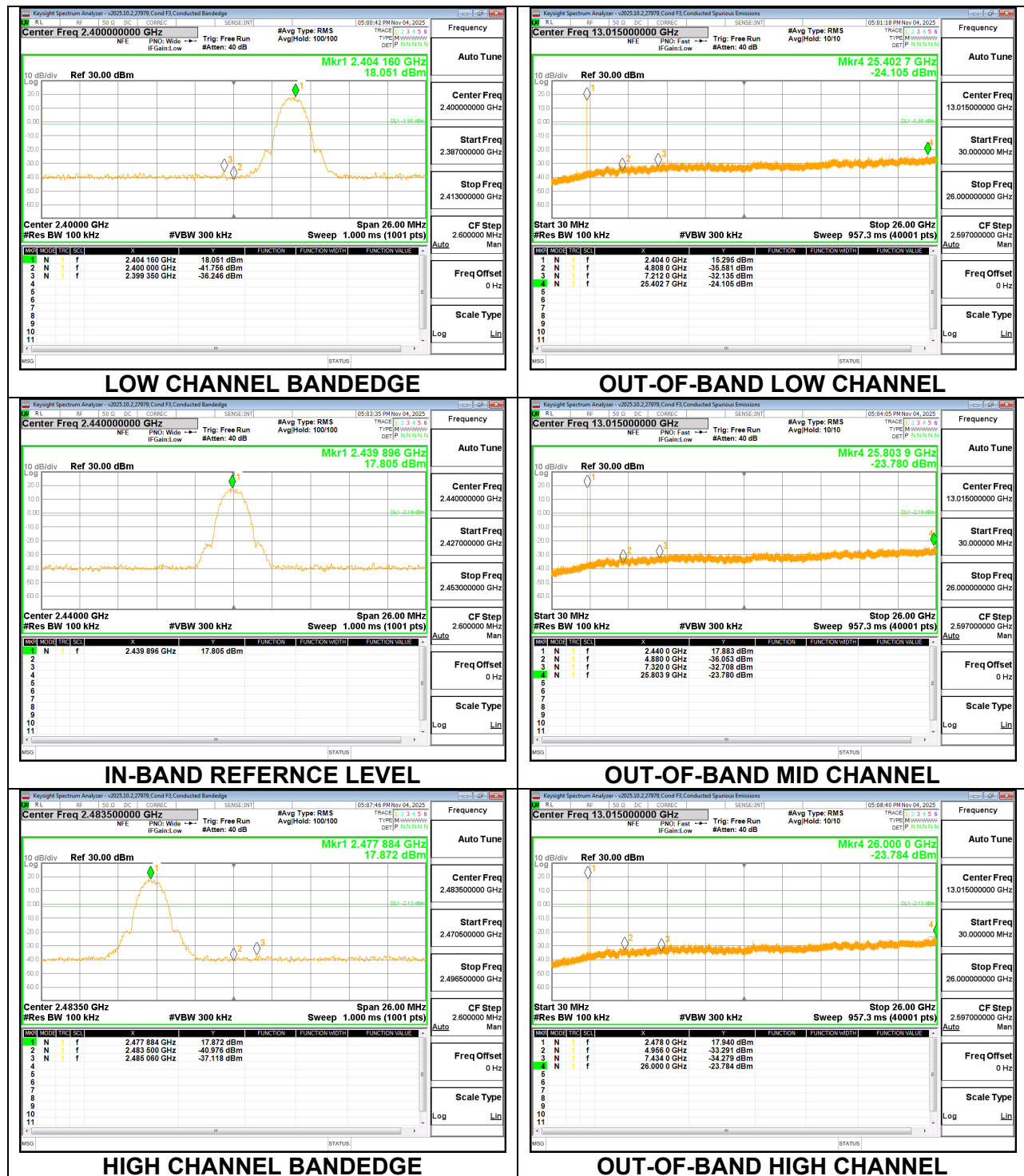


HIGH CHANNEL BANDEDGE



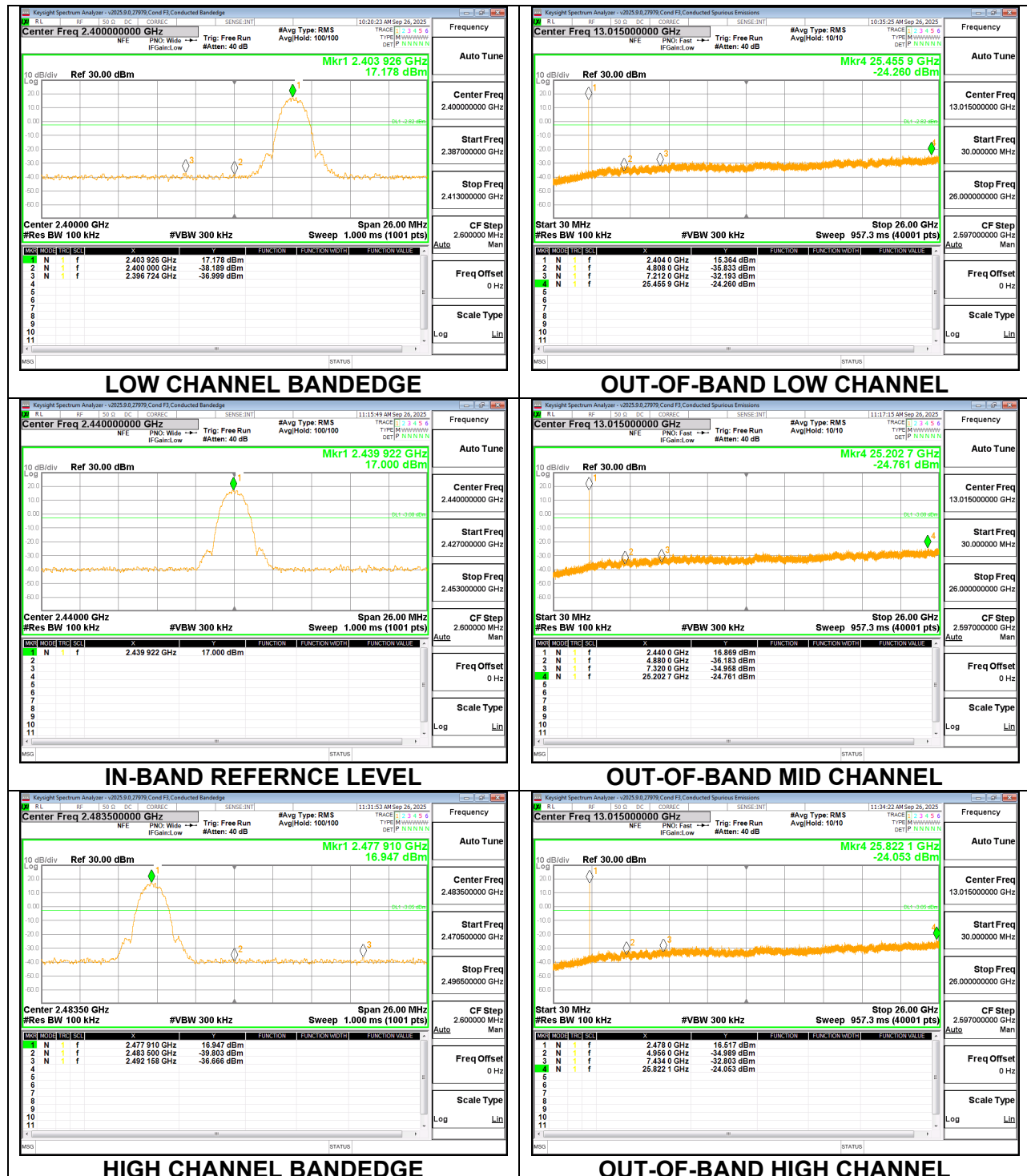
OUT-OF-BAND HIGH CHANNEL

ANT 3

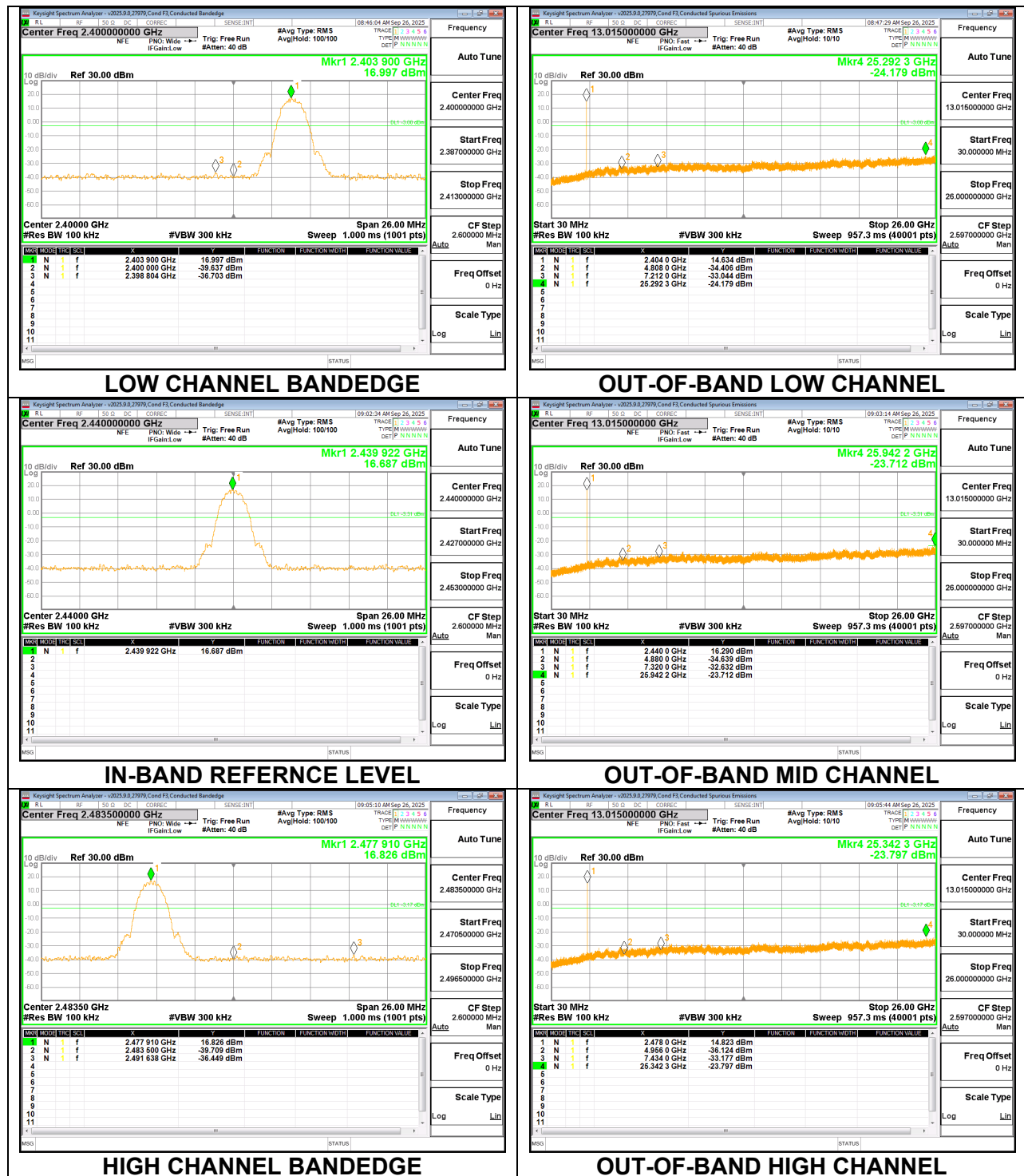


9.6.4. HIGH POWER LE2M MIMO TXBF

ANT 4



ANT 3



9.6.5. LOW POWER LE1M

ANT 4

