



TEST REPORT

Test Report No. : UL-RPT-RP16107649JD02E

Applicant* : Apple Inc.

Model No. / HVIN* : A3535

FCC ID* : BCGA3535 **IC*** : 579C-A3535

Technology : *Bluetooth* – BR & EDR

Test Standard(s) : FCC Parts 15.35(c), 15.209(a) & 15.247
Innovation, Science and Economic Development Canada
RSS-247 Issue 4 July 2025
RSS-Gen Issue 5 February 2021

Test Laboratory : UL International (UK) Ltd, Basingstoke, Hampshire, RG24 8AH,
United Kingdom

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4. The test results in this report are traceable to the national or international standards.
5. All information marked with (*) was provided by the Applicant or Authorised representative
6. Version 2.0 supersedes all previous versions.

Date of Issue: 10 August 2026

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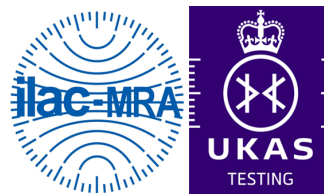
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Applicant Information

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Report Revision History

Version Number	Issue Date	Revision Details	Revised By
1.0	09/07/2026	Initial Version	Sarah Williams
2.0	10/08/2026	Address TCB feedback	Sarah Williams

Table of Contents

Applicant Information	2
Report Revision History	2
Table of Contents.....	3
1 Attestation of Test Results.....	4
1.1 Description of EUT	4
1.2 General Information	4
1.3 Summary of Test Results	5
1.4 Deviations from the Test Specification	5
2 Summary of Testing.....	6
2.1 Facilities and Accreditation	6
2.2 Methods and Procedures	6
2.3 Calibration and Uncertainty	7
2.4 Sample Calculation	8
2.5 Test and Measurement Equipment	9
3 Equipment Under Test (EUT)	12
3.1 Identification of Equipment Under Test (EUT)	12
3.2 Modifications Incorporated in the EUT	12
3.3 Additional Information Related to Testing	13
3.4 Description of Available Antennas	13
3.5 Description of Test Setup	14
4 Antenna Port Test Results	18
4.1 Duty Cycle	18
4.2 20 dB & 99% Bandwidth	20
4.3 Carrier Frequency Separation	30
4.4 Number of Hopping Frequencies and Average Time of Occupancy	33
4.5 Maximum Peak Output Power	36
5 Radiated Test Results.....	44
5.1 Radiated Emissions <1 GHz	44
5.2 Radiated Emissions >1 GHz	46
5.3 Band Edge Radiated Emissions	48
Appendix 1	72
FHSS Duty Cycle Correction Factor Calculation	72

1 Attestation of Test Results

1.1 Description of EUT

The equipment under test (EUT) was a desktop computer.*

1.2 General Information

Specification Reference:	47CFR15.247
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) – Section 15.247
Specification Reference:	47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) – Section 15.209
Specification Reference:	RSS-247 Issue 4 July 2025
Specification Title:	Digital Transmission Systems, Frequency Hopping Systems and Licence- Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
Specification Reference:	RSS-Gen Issue 5 February 2021
Specification Title:	General Requirements for Compliance of Radio Apparatus
Site Registration:	FCC: 685609, ISEDC: 20903
FCC Lab. Designation No.:	UK2011
ISEDC CABID:	UK0001
Location of Testing:	Units 3 & 4 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
Test Dates:	11 February 2026 to 29 April 2026

1.3 Summary of Test Results

FCC Clause (47CFR)	ISED Clause	Transmitter Measurement	Result
Part 15.35(c)	RSS-Gen 8.2	Duty Cycle	Note 1
N/A	RSS-Gen 6.7	99% Occupied Bandwidth	Note 1
Part 15.247(a)(1)	RSS-Gen 6.7 / RSS-247 6.2.1(a)	20 dB Bandwidth	Complied
Part 15.247(a)(1)	RSS-247 6.2.3.1(a)	Carrier Frequency Separation	Complied
Part 15.247(a)(1)(iii)	RSS-247 6.2.3.1(b)	Number of Hopping Frequencies and Average Time of Occupancy	Complied
Part 15.247(b)(1)	RSS-Gen 6.12 / RSS-247 6.2.3.2	Maximum Peak Output Power	Complied
Part 15.247(d) & 15.209(a)	RSS-247 6.6 / RSS-Gen 6.13 & 8.9	Radiated Emissions	Complied
Part 15.247(d) & 15.209(a)	RSS-247 6.6 / RSS-Gen 6.13 & 8.10	Band Edge Radiated Emissions	Complied

Note(s):

1. Reporting purposes only.

1.4 Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

2 Summary of Testing

2.1 Facilities and Accreditation

The test site and measurement facilities used to collect data are located at Units 3 & 4 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom. The following table identifies which facilities were utilised for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

Site 1	-
Site 17	-
Site 32	X
Site 33	-

UL International (UK) Ltd is accredited by the United Kingdom Accreditation Service (UKAS). UKAS is one of the signatories to the International Laboratory Accreditation Co-operation (ILAC) Arrangement for the mutual recognition of test reports. The tests reported herein have been performed in accordance with its terms of accreditation.

2.2 Methods and Procedures

Reference:	ANSI C63.10-2020
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	#ANSI C63.10-2020/Cor1-2023
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Corrigendum 1
Reference:	#ANSI C63.10-2020+C63.10a-2024
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Amendment 1
Reference:	#ANSI C63.10-2020+Errata to C63.10a-2024
Title:	Errata to American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Amendment 1

#The use of ANSI C63.10-2020/Cor1-2023 and C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

2.3 Calibration and Uncertainty

Measuring Instrument Calibration

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

Measurement Uncertainty & Decision Rule

Overview

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

Decision Rule

Measurement system instrumentation shall be used with an accuracy specification meeting the accuracy specification limits according to IEC/IECEE OD-5014.

As applicable, unless specified otherwise in this quotation, the compliance "Decision Rule" is based on Simple Acceptance. If the measured value is on the limit, the result is defined as a pass. For further information regarding risk assessment refer to ILAC G8:09/2019.

Measurement Uncertainty

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Duty Cycle	2.4 GHz to 2.4835 GHz	95%	±1.14 %
99% Occupied Bandwidth	2.4 GHz to 2.4835 GHz	95%	±2.41 %
20 dB Bandwidth	2.4 GHz to 2.4835 GHz	95%	±3.27 %
Carrier Frequency Separation	2.4 GHz to 2.4835 GHz	95%	±3.27 %
Average Time of Occupancy	2.4 GHz to 2.4835 GHz	95%	±3.21 µs
Conducted Maximum Peak Output Power	2.4 GHz to 2.4835 GHz	95%	±1.25 dB
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±4.66 dB
Radiated Spurious Emissions	1 GHz to 26 GHz	95%	±5.06 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

2.4 Sample Calculation

Where relevant, the following calculations were used:

Radiated Emissions

- The recorded emission level was calculated from the level indicated by the measuring receiver, adjusted by a transducer factor (TDF in dB), using the formula:

$$\text{TDF (dB)} = C_{\text{Att}} (\text{dB}) + \text{AF (dB/m)} - P_{\text{Gain}} (\text{dB}) + D_{\text{Cor}} (\text{dB})$$

Where:

C_{Att} : conducted path attenuation (cables + attenuators)

AF: antenna factor

P_{Gain} : external preamplifier gain

D_{Cor} : distance correction factor (where applicable)

Directional Antenna Gain Calculations for Beamforming

For 2Tx Beamforming modes, in accordance with ANSI C63.10 Section 14.6.3.2.4a), directional gain was calculated as:

$$\text{Directional gain} = 10 \log[(10^{G_{1/20}} + 10^{G_{2/20}} + \dots + 10^{G_{20/20}})^2 / N_{\text{ANT}}] = \text{dBi}$$

2.5 Test and Measurement Equipment

Test Equipment Used for Conducted Tests

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2042	Thermohygrometer	Testo	608-H1	45124926	18 Dec 2026	12
M231905	Signal Analyser	Keysight	N9020B	MY63430222	01 Oct 2026	12
A227121	Attenuator	Pasternack	PE7013-10	#2	Calibrated before use	-
A227122	Attenuator	Pasternack	PE7013-10	#3	Calibrated before use	-
A227123	Attenuator	Pasternack	PE7013-10	#4	Calibrated before use	-
M2020	Power Sensor	Boonton	RTP55006	9970	02 Jun 2026	12
M2021	Power Sensor	Boonton	RTP55006	9967	02 Jun 2026	12
M2026	Power Sensor	Boonton	RTP55006	9911	02 Jun 2026	12
A231995	Switching Unit	Mini-Circuits	ZT-400	12211020020	Calibrated before use	-
M241601	Network Analyser	Keysight	P5007B	MY61100200	02 Oct 2026	12

Test Measurement Software/Firmware Used for Conducted Tests

Name	Version	Release Date
Phoenix Core	5.0.17	27 April 2026

Test and Measurement Equipment (continued)**Test Equipment Used for Radiated Emissions Tests**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M226553	Thermohygrometer	Testo	608-H1	83800731	17 Dec 2026	12
K226202	3m RSE Chamber	Albatross Projects	N/A	N/A	07 Jul 2026	12
M227312	Test Receiver	Rohde & Schwarz	ESW44	103203	10 Dec 2026	12
A231566	Pre-Amplifier	RF-Bay	LNA-1070	1	07 Jul 2026	12
A230567	Pre-Amplifier	Atlantic Microwave	A-HPAKX-380143-K5K5	VJ3601001	07 Jul 2026	12
A255976	Signal Conditioning Unit	Link Microtek	AMUNIT-SCB-UL1	16815	07 Apr 2026	12
A225133	Antenna	Teseq	CBL6111D	63217	13 Mar 2026	12
A231043	Antenna	Schwarzbeck	BBHA 9120 B	00834	07 Jul 2026	12
A231046	Antenna	Schwarzbeck	HWRD 750	00065	07 Jul 2026	12
A231050	Antenna	Schwarzbeck	BBHA 9170	01280	07 Jul 2026	12
A3114	Attenuator	AtlanTecRF	AN18-06	219706#4	13 Mar 2026	12
A227143	Low Pass Filter	Micro-Tronics	LPM21016	002	07 Jul 2026	12
C227000	RF Cable	Huber + Suhner	SF126EA/11N/1 1N/6000mm	520904	07 Jul 2026	12
C226917	RF Cable	Huber + Suhner	SF126EA/11N/1 1N/4000mm	520385	07 Jul 2026	12
C226954	RF Cable	Huber + Suhner	SF126EA/11N/1 1N/2000	520364	07 Jul 2026	12
C226940	RF Cable	Huber + Suhner	SF126EA/11N/1 1N/800	520362	07 Jul 2026	12
C267019	RF Cable	Huber + Suhner	SF526EA/11N/1 1N/7000mm	3458770004	07 Jul 2026	12
C226956	RF Cable	Huber + Suhner	SF126EA/11N/1 1N/2000	520365	07 Jul 2026	12
C256200	RF Cable	Link Microtek	B10-07-07-0.5M-001	#8	07 Jul 2026	12
C223506	RF Cable	Schwarzbeck	AK 9540-2.0	00035	07 Jul 2026	12
C223502	RF Cable	Schwarzbeck	AK 9540-0.6	00029	07 Jul 2026	12

Test and Measurement Equipment (continued)**Test Equipment Used for Band Edge Radiated Emissions Tests**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M226553	Thermohygrometer	Testo	608-H1	83800731	17 Dec 2026	12
K226202	3m RSE Chamber	Albatross Projects	N/A	N/A	07 Jul 2026	12
M227312	Test Receiver	Rohde & Schwarz	ESW44	103203	10 Dec 2026	12
A255976	Signal Conditioning Unit	Link Microtek	AMUNIT-SCB-UL1	16815	07 Apr 2026	12
A231043	Antenna	Schwarzbeck	BBHA 9120 B	00834	07 Jul 2026	12
C267019	RF Cable	Huber + Suhner	SF526EA/11N/11N/7000mm	3458770004	07 Jul 2026	12
C226956	RF Cable	Huber + Suhner	SF126EA/11N/11N/2000	520365	07 Jul 2026	12
C256200	RF Cable	Link Microtek	B10-07-07-0.5M-001	#8	07 Jul 2026	12

Test Measurement Software/Firmware Used for Radiated Tests

Name	Version	Release Date
Phoenix Core	5.0.3	27 January 2026
Phoenix Radiated	5.0.4	03 February 2026

3 Equipment Under Test (EUT)

3.1 Identification of Equipment Under Test (EUT)

Brand Name*:	Apple
Model Name or Number / HVIN*:	A3535
FCC ID*:	BCGA3535
ISED Canada Certification Number*:	579C-A3535

Test Sample Serial Number*:	Hardware Version*:	Software Version*:	Date of Receipt:
QFJ737LTP7 (<i>Conducted</i>)	REV 1.0	26A259	12 March 2026
GX2W350QP7 (<i>Radiated</i>)	REV 1.0	26A259	10 February 2026

3.2 Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.3 Additional Information Related to Testing

Technology Tested:	Bluetooth		
Type of Unit:	Transceiver		
Channel Spacing:	1 MHz		
Power Supply Requirement(s)*:	12 VDC via 120 VAC 60 Hz AC/DC supply		
Maximum Conducted Output Power:	20.33 dBm		
Transmit Frequency Range:	2400 MHz to 2483.5 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	0	2402
	Middle	39	2441
	Top	78	2480

Mode*	Modulation*	Packet Type (Maximum Payload)*	Data Rate (Mbps)*
Basic Rate	GFSK	DH5	1
Enhanced Data Rate	$\pi/4$ -DQPSK	2DH5	2
Enhanced Data Rate	8DPSK	3DH5	3

3.4 Description of Available Antennas

The radio utilizes three integrated antennas, with the following maximum gains:

Frequency (MHz)	Antenna Port	Antenna Gain (dBi)*	Directional Antenna Gain (dBi)
2402	Core 0	1.3	4.26
2440	Core 0	0.8	3.91
2480	Core 0	1.4	4.36
2402	Core 1	1.2	4.26
2440	Core 1	1.0	3.91
2480	Core 1	1.3	4.36
2402	Core 2	0.2	-
2440	Core 2	-0.4	
2480	Core 2	0.7	

The EUT complies with FCC Part 15.203 requirements by using permanently attached antennas with no option for external connections.

3.5 Description of Test Setup

Support Equipment

The following support equipment was used to exercise the EUT during testing:

Customer Supplied*:

Description	Brand Name	Model Name or Number	Serial Number
Test Laptop	Apple	MacBook Pro	L20H7Q2K6P
USB Diagnostic Cable	Apple	Chimp	439507
Test Laptop	Apple	MacBook Pro	CFQL62C43K
USB Diagnostic Cable	Apple	Chimp	439E2D

Laboratory Supplied:

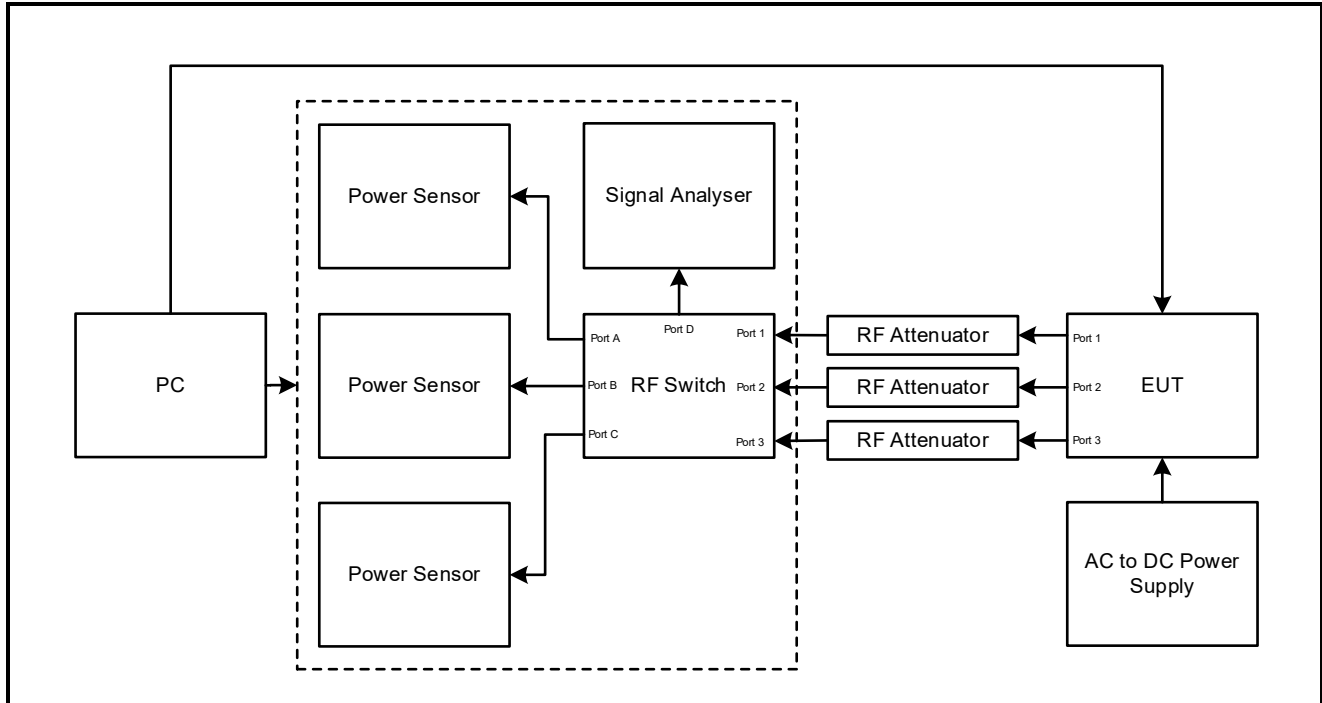
Description	Brand Name	Model Name or Number	Serial Number
USB-C Docking Station	Lenovo	LDC-G2	ZKW05W5E
Ethernet Cable. Length 5m.	Not marked or stated	Not marked or stated	Not marked or stated
HDMI Cable. Length 5m.	Not marked or stated	Not marked or stated	Not marked or stated
USB-A Cable. Quantity 4. Length 3m.	Not marked or stated	Not marked or stated	Not marked or stated
USB C-A Adapter. Quantity 4.	Not marked or stated	Not marked or stated	Not marked or stated
Personal Hands Free (PHF)	Not marked or stated	Not marked or stated	Not marked or stated

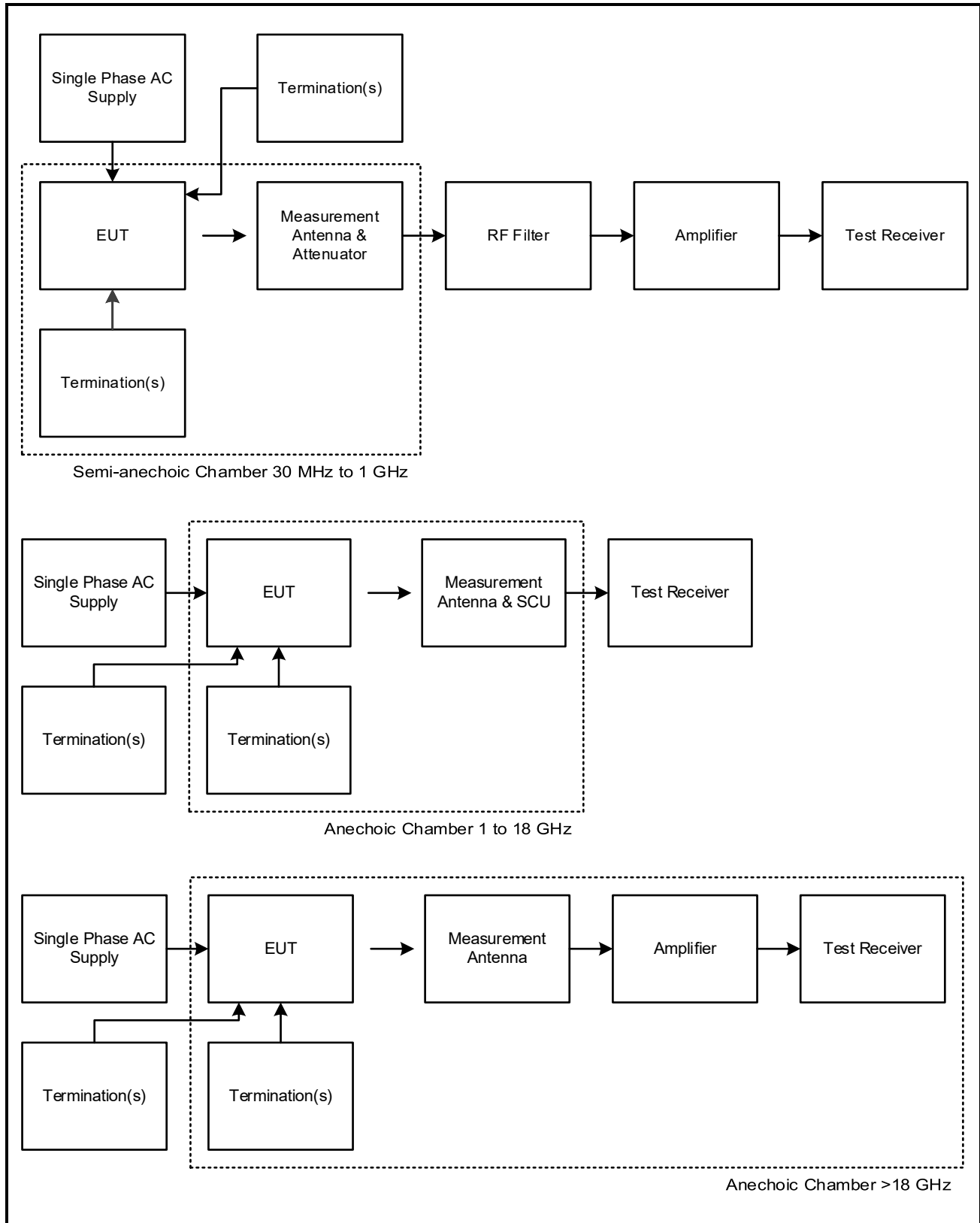
Operating Modes, Configuration and Peripherals

- Continuously transmitting at maximum output power on the packet types shown in section 3.3.
- Controlled in test mode using a set of commands entered into a terminal application on the test laptop supplied by the customer. The commands were used to enable a continuous transmission and to select the test channels & packet types as required.
- The EUT was powered from an AC to DC Power Supply. The input was connected to a 120 VAC 60 Hz single phase mains supply.
- The customer supplied RF test cable connections to the internal EUT antenna ports in order to perform conducted measurements. The respective path losses were added to the measurements along with the automated test system path losses.
- Radiated emissions below 1 GHz and above 18 GHz were performed with the EUT set to transmit at the channel with the highest output power as worst-case scenario. Between 1 GHz and 18 GHz, tests were performed with the EUT set to transmit at the highest power on bottom, middle and top channels.
- Radiated emissions tests were performed with the EUT transmitting in the following modes. The EUT was configured for 2Tx Beamforming mode with the power setting equal or higher than SISO modes as a worst-case scenario:
 - DH5 / Beamforming / Core 0 + Core 1 / ePA
 - DH5 / Beamforming / Core 0 + Core 1 / iPA

Sections 5.2 & 5.3 only have DH5 / Beamforming / Core 0 + Core 1 / ePA reported. All the other modes are archived on the UL IT server and available for inspection if required.

- Radiated emissions and band edge tests were performed with the EUT in its worst-case orientation with respect to emissions.
- Band Edge measurements were performed on the worst-case data rates declared by the customer.
- All active ports were terminated using the appropriate terminations during radiated emissions testing.

Test Setup Diagrams**Conducted Tests:****Test Setup for Conducted Tests**

Test Setup Diagrams (continued)**Radiated Tests:****Test Setup for Radiated Emissions**

4 Antenna Port Test Results

4.1 Duty Cycle

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	29 April 2026
Test Sample Serial Number:	QFJ737LTP7		

FCC Clause:	Part 15.35(c)
ISED Canada Clause:	RSS-Gen 8.2
Test Method Used:	ANSI C63.10 Section 11.6

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	31

Note(s):

1. The duty cycle was measured using a calibrated power sensor. The power sensor used has a sufficiently short response time to accurately capture the ON and OFF periods of the transmitted signal.
2. The duty cycle is identical for both SISO and Beamforming modes.

Duty Cycle (continued)**Results: SISO**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Burst Type	Stability	Duty Cycle (%)	Period (ms)	Width (ms)
2402	Burst Tx	< $\pm 2\%$	76.71	3.750	2.876

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Burst Type	Stability	Duty Cycle (%)	Period (ms)	Width (ms)
2402	Burst Tx	< $\pm 2\%$	76.83	3.750	2.881

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Burst Type	Stability	Duty Cycle (%)	Period (ms)	Width (ms)
2402	Burst Tx	< $\pm 2\%$	76.88	3.750	2.883

4.2 20 dB & 99% Bandwidth

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	29 April 2026
Test Sample Serial Number:	QFJ737LTP7		

99% OBW:

FCC Clause:	N/A
ISED Canada Clause:	RSS-Gen 6.7
Test Method Used:	ANSI C63.10 Section 7.8.6 referencing section 6.9.3

20 dB BW:

FCC Clause:	15.247 (a)(1)
ISED Canada Clause:	RSS-247 6.2.1(a) / RSS-Gen 6.7
Test Method Used:	ANSI C63.10 Section 6.9.2

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	31

Note(s):

1. OBW: The transmitter output is connected to a signal analyser. The RBW is set in the range of 1% to 5% of the 99% OBW. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.
2. 20 dB BW: The transmitter output is connected to a signal analyser. The RBW is set in the range of 1% to 5% of the 20 dB bandwidth. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled. The bandwidth was measured at 20 dB down from the peak of the signal.
3. The analyser plot contains both marker sets used for the occupied bandwidth evaluation. Markers 1 & 2 define the 99% Occupied Bandwidth, and markers 3 & 4 define the 20 dB bandwidth. Since the instrument displays only one active marker delta measurement, the value shown on the plot is associated with the 20 dB bandwidth only. The 99% Occupied Bandwidth result is calculated from the raw trace data and subsequently identified between markers 1 & 2 as documented in the test results tables below.
4. Example plots of each modulation on the worst-case channel, for one antenna configuration, can be seen below to show setting parameters comply with testing method/procedure. All other plots are archived on the UL IT server and available for inspection if required.

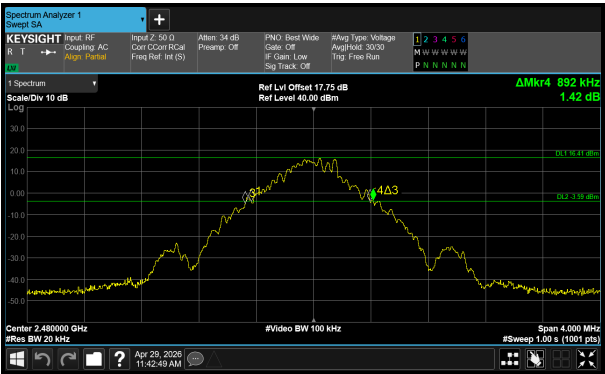
20 dB & 99% Bandwidth (continued)

Results: SISO / ePA

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.825	-	-	-
2441	-	0.825	-	-	-
2480	-	0.828	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.888	-	-	-
2441	-	0.888	-	-	-
2480	-	0.892	-	-	-

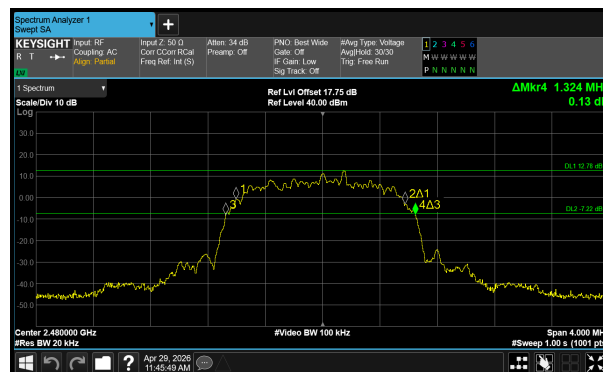


20 dB & 99% Bandwidth (continued)

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	-	-	-
2441	-	1.180	-	-	-
2480	-	1.180	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.320	-	-	-
2441	-	1.320	-	-	-
2480	-	1.324	-	-	-

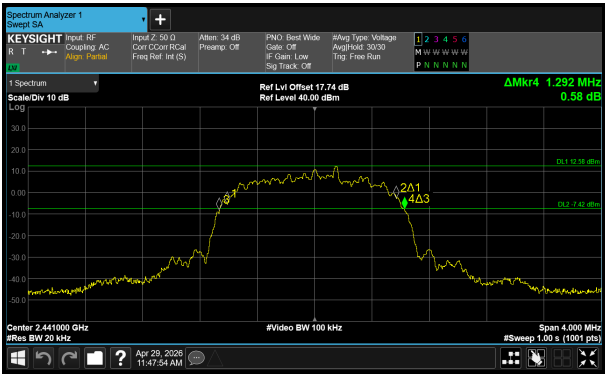


20 dB & 99% Bandwidth (continued)

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	-	-	-
2441	-	1.180	-	-	-
2480	-	1.176	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.292	-	-	-
2441	-	1.292	-	-	-
2480	-	1.292	-	-	-



20 dB & 99% Bandwidth (continued)**Results: SISO / iPA**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.825	-	-	-
2441	-	0.825	-	-	-
2480	-	0.825	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	-	-	-
2441	-	0.891	-	-	-
2480	-	0.891	-	-	-

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.188	-	-	-
2441	-	1.188	-	-	-
2480	-	1.184	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.324	-	-	-
2441	-	1.324	-	-	-
2480	-	1.324	-	-	-

20 dB & 99% Bandwidth (continued)

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.188	-	-	-
2441	-	1.188	-	-	-
2480	-	1.192	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.296	-	-	-
2441	-	1.296	-	-	-
2480	-	1.296	-	-	-

20 dB & 99% Bandwidth (continued)**Results: Beamforming / ePA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.825	0.825	-	-
2441	-	0.828	0.828	-	-
2480	-	0.828	0.828	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	0.891	-	-
2441	-	0.888	0.888	-	-
2480	-	0.891	0.891	-	-

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	1.180	-	-
2441	-	1.180	1.180	-	-
2480	-	1.180	1.180	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.320	1.320	-	-
2441	-	1.320	1.320	-	-
2480	-	1.320	1.320	-	-

20 dB & 99% Bandwidth (continued)

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.184	1.184	-	-
2441	-	1.184	1.184	-	-
2480	-	1.184	1.180	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.288	1.288	-	-
2441	-	1.288	1.288	-	-
2480	-	1.288	1.288	-	-

20 dB & 99% Bandwidth (continued)**Results: Beamforming / iPA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.828	0.828	-	-
2441	-	0.828	0.828	-	-
2480	-	0.825	0.825	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	0.891	-	-
2441	-	0.891	0.888	-	-
2480	-	0.888	0.888	-	-

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.188	1.188	-	-
2441	-	1.188	1.188	-	-
2480	-	1.188	1.188	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.324	1.324	-	-
2441	-	1.324	1.324	-	-
2480	-	1.324	1.324	-	-

20 dB & 99% Bandwidth (continued)

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.188	1.192	-	-
2441	-	1.188	1.192	-	-
2480	-	1.188	1.188	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.292	1.296	-	-
2441	-	1.296	1.296	-	-
2480	-	1.296	1.296	-	-

4.3 Carrier Frequency Separation

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	29 April 2026
Test Sample Serial Number:	QFJ737LTP7		

FCC Clause:	Part 15.247(a)(1)
ISED Canada Clause:	RSS-247 6.2.3.1(a) / RSS-Gen 6.7
Test Method Used:	ANSI C63.10 Section 7.8.2

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	30

Note(s):

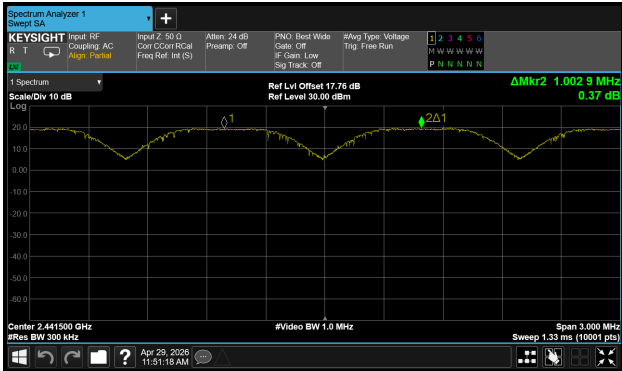
1. The 20 dB bandwidth measured for the middle channel operating at 2441 MHz was used to calculate the limit.
2. The transmitter output is connected to a signal analyser. The RBW is set to 300 kHz and the VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.
3. Example plots of each modulation on the worst-case channel, for one antenna configuration, can be seen below to show setting parameters comply with testing method/procedure. All other plots are archived on the UL IT server and available for inspection if required.

Carrier Frequency Separation (continued)

Results: SISO / ePA

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		Fhs (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.990	2441.993	1.003	1.324	0.883	0.120



Carrier Frequency Separation (continued)**Results: SISO / iPA**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		F _{HS} (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.995	2441.975	0.980	1.324	0.883	0.097

Results: Beamforming / ePA

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		F _{HS} (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.975	2441.988	1.013	1.320	0.880	0.125

Results: Beamforming / iPA

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		F _{HS} (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.993	2441.992	0.999	1.324	0.883	0.116

4.4 Number of Hopping Frequencies and Average Time of Occupancy

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	29 April 2026
Test Sample Serial Number:	QFJ737LTP7		

FCC Clause:	Part 15.247(a)(1)(iii)
ISED Canada Clause:	RSS-247 6.2.3.1(b)
Test Method Used:	ANSI C63.10 Sections 7.8.3 & 7.8.4

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	30

Note(s):

1. The transmitter output is connected to a signal analyser.
2. For the Number of Hopping Frequencies, the span is set to cover the entire authorised band, in either a single sweep or in multiple contiguous sweeps. RBW is set to a maximum of 1% of the span. The analyser is set to Max Hold.
3. For the Average Time of Occupancy, the span is set to 0 Hz centred on a single hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured over a 31.6 second scan to enable resolution of each occurrence. The calculated period is 31.6 seconds based on the number of channels (79) x 0.4 seconds. For AFH mode the number of pulses is measured over an 8 second scan based on a calculation of 20 channels x 0.4 seconds.
4. Only DH5 is reported since EDR has exactly the same timing.

Number of Hopping Frequencies and Average Time of Occupancy (continued)**Results: SISO / ePA**

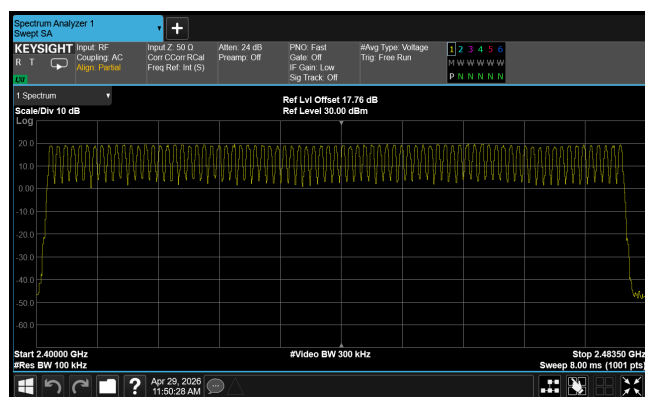
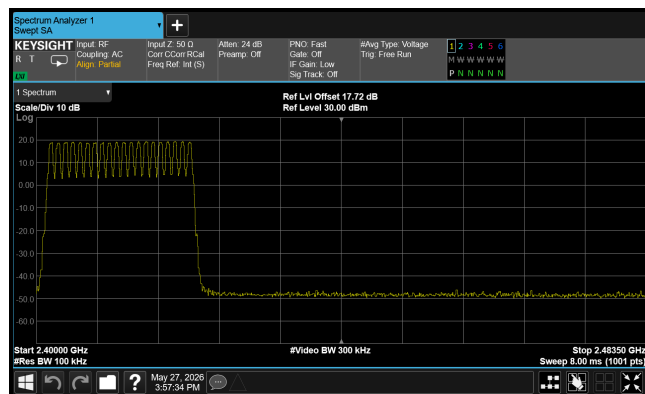
Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Modulation/Rate:	DH5 (GFSK)

Burst Tx	Stability: < ±2%	Duty Cycle (%): 76.70	Period (ms): 3.750	Width (ms): 2.876
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Number of Hopping Frequencies		Limit
Min:	20	≥ 15
Max:	79	

Hopping Sequence Results

No. of Hopping Frequencies	Hopping Frequency Investigated (MHz)	Emission Width (ms)	Number of Hops	Average Time of Occupancy (ms)	Limit (ms)	Margin (ms)
Min:	2402	2.876	110	316.4	≤ 400.0	83.6
Max:	2402	2.876	121	348.1	≤ 400.0	51.9

Average Time of Occupancy Results**Max Hopping Sequence****Max Time of Occupancy****Min Hopping Sequence****Min Time of Occupancy**

Number of Hopping Frequencies and Average Time of Occupancy (continued)**Results: Beamforming / ePA**

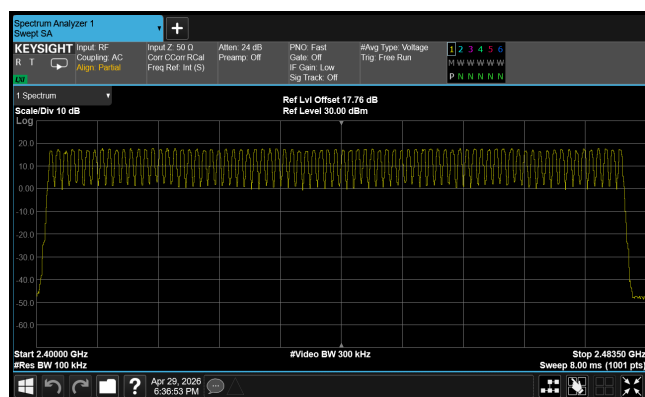
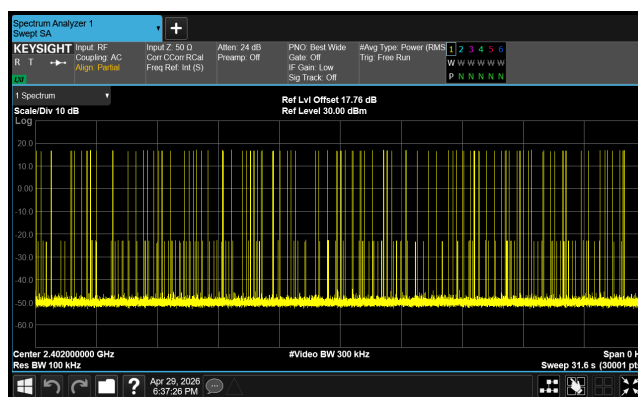
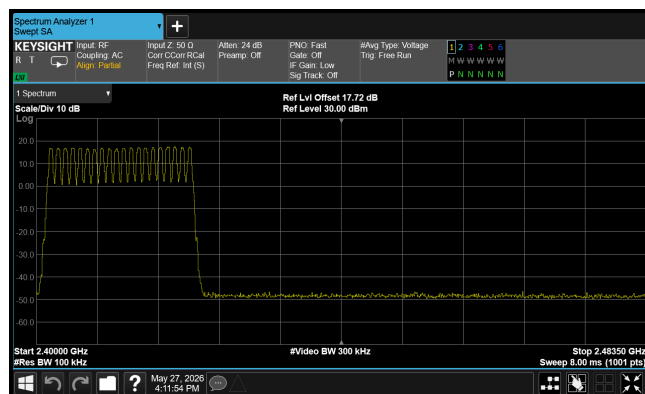
Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Modulation/Rate:	DH5 (GFSK)

Burst Tx	Stability: < $\pm 2\%$	Duty Cycle (%): 76.70	Period (ms): 3.750	Width (ms): 2.876
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Number of Hopping Frequencies		Limit
Min:	20	≥ 15
Max:	79	

Hopping Sequence Results

No. of Hopping Frequencies	Hopping Frequency Investigated (MHz)	Emission Width (ms)	Number of Hops	Average Time of Occupancy (ms)	Limit (ms)	Margin (ms)
Min:	2402	2.876	108	310.6	≤ 400.0	89.4
Max:	2402	2.876	119	342.3	≤ 400.0	57.7

Average Time of Occupancy Results**Max Hopping Sequence****Max Time of Occupancy****Min Hopping Sequence****Min Time of Occupancy**

4.5 Maximum Peak Output Power**Test Summary:**

Test Engineer:	Jerome Moyo	Test Date:	29 April 2026
Test Sample Serial Number:	QFJ737LTP7		

FCC Clause:	Part 15.247(b)(1)
ISED Canada Clause:	RSS-247 6.2.3.2
Test Method Used:	ANSI C63.10 Section 7.8.5

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	31

Note(s):

1. Measurements were performed with a wideband peak power sensor.
2. The declared antenna gain was added to the conducted peak power to obtain the EIRP.

Maximum Peak Output Power (continued)**Results: SISO / ePA / Core 0**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	20.08	-	-	-	1.30	30.00	9.92	21.38	36.00	14.62
2441	-	20.02	-	-	-	0.80	30.00	9.98	20.82	36.00	15.18
2480	-	19.95	-	-	-	1.40	30.00	10.05	21.35	36.00	14.65

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	19.23	-	-	-	1.30	30.00	10.77	20.53	36.00	15.47
2441	-	19.17	-	-	-	0.80	30.00	10.83	19.97	36.00	16.03
2480	-	19.36	-	-	-	1.40	30.00	10.64	20.76	36.00	15.24

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	19.87	-	-	-	1.30	30.00	10.13	21.17	36.00	14.83
2441	-	19.77	-	-	-	0.80	30.00	10.23	20.57	36.00	15.43
2480	-	19.96	-	-	-	1.40	30.00	10.04	21.36	36.00	14.64

Maximum Peak Output Power (continued)**Results: SISO / ePA / Core 1**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	3 (Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	19.71	-	-	1.20	30.00	10.29	20.91	36.00	15.09
2441	-	-	19.81	-	-	1.00	30.00	10.19	20.81	36.00	15.19
2480	-	-	19.85	-	-	1.30	30.00	10.15	21.15	36.00	14.85

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	19.31	-	-	1.20	30.00	10.69	20.51	36.00	15.49
2441	-	-	19.13	-	-	1.00	30.00	10.87	20.13	36.00	15.87
2480	-	-	19.26	-	-	1.30	30.00	10.74	20.56	36.00	15.44

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	19.90	-	-	1.20	30.00	10.10	21.10	36.00	14.90
2441	-	-	19.94	-	-	1.00	30.00	10.06	20.94	36.00	15.06
2480	-	-	19.73	-	-	1.30	30.00	10.27	21.03	36.00	14.97

Maximum Peak Output Power (continued)**Results: SISO / iPA / Core 0**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.36	-	-	-	1.30	30.00	20.64	10.66	36.00	25.34
2441	-	9.36	-	-	-	0.80	30.00	20.64	10.16	36.00	25.84
2480	-	9.51	-	-	-	1.40	30.00	20.49	10.91	36.00	25.09

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	8.96	-	-	-	1.30	30.00	21.04	10.26	36.00	25.74
2441	-	8.79	-	-	-	0.80	30.00	21.21	9.59	36.00	26.41
2480	-	8.97	-	-	-	1.40	30.00	21.03	10.37	36.00	25.63

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.36	-	-	-	1.30	30.00	20.64	10.66	36.00	25.34
2441	-	9.19	-	-	-	0.80	30.00	20.81	9.99	36.00	26.01
2480	-	9.36	-	-	-	1.40	30.00	20.64	10.76	36.00	25.24

Maximum Peak Output Power (continued)**Results: SISO / iPA / Core 1**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	3 (Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	9.36	-	-	1.20	30.00	20.64	10.56	36.00	25.44
2441	-	-	9.42	-	-	1.00	30.00	20.58	10.42	36.00	25.58
2480	-	-	9.36	-	-	1.30	30.00	20.64	10.66	36.00	25.34

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	8.72	-	-	1.20	30.00	21.28	9.92	36.00	26.08
2441	-	-	8.95	-	-	1.00	30.00	21.05	9.95	36.00	26.05
2480	-	-	8.85	-	-	1.30	30.00	21.15	10.15	36.00	25.85

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	9.07	-	-	1.20	30.00	20.93	10.27	36.00	25.73
2441	-	-	9.29	-	-	1.00	30.00	20.71	10.29	36.00	25.71
2480	-	-	9.19	-	-	1.30	30.00	20.81	10.49	36.00	25.51

Maximum Peak Output Power (continued)**Results: SISO / iPA / Core 2**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	4 (Core 2)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	-	13.22	-	0.20	30.00	16.78	13.42	36.00	22.58
2441	-	-	-	13.36	-	-0.40	30.00	16.64	12.96	36.00	23.04
2480	-	-	-	13.27	-	0.70	30.00	16.73	13.97	36.00	22.03

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	4 (Core 2)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	-	12.82	-	0.20	30.00	17.18	13.02	36.00	22.98
2441	-	-	-	12.86	-	-0.40	30.00	17.14	12.46	36.00	23.54
2480	-	-	-	12.84	-	0.70	30.00	17.16	13.54	36.00	22.46

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	4 (Core 2)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	-	13.19	-	0.20	30.00	16.81	13.39	36.00	22.61
2441	-	-	-	13.23	-	-0.40	30.00	16.77	12.83	36.00	23.17
2480	-	-	-	13.23	-	0.70	30.00	16.77	13.93	36.00	22.07

Maximum Peak Output Power (continued)**Results: Beamforming / ePA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	17.13	17.18	-	20.17	4.26	30.00	9.83	24.43	36.00	11.57
2441	-	17.32	17.30	-	20.32	3.91	30.00	9.68	24.23	36.00	11.77
2480	-	17.28	17.36	-	20.33	4.36	30.00	9.67	24.69	36.00	11.31

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	16.28	16.16	-	19.23	4.26	30.00	10.77	23.49	36.00	12.51
2441	-	16.20	16.23	-	19.22	3.91	30.00	10.78	23.13	36.00	12.87
2480	-	16.32	16.25	-	19.29	4.36	30.00	10.71	23.65	36.00	12.35

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	16.82	16.77	-	19.81	4.26	30.00	10.19	24.07	36.00	11.93
2441	-	16.78	16.77	-	19.79	3.91	30.00	10.21	23.70	36.00	12.30
2480	-	16.90	16.82	-	19.87	4.36	30.00	10.13	24.23	36.00	11.77

Maximum Peak Output Power (continued)**Results: Beamforming / iPA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.36	9.45	-	12.42	4.26	30.00	17.58	16.68	36.00	19.32
2441	-	9.43	9.27	-	12.36	3.91	30.00	17.64	16.27	36.00	19.73
2480	-	9.38	9.27	-	12.34	4.36	30.00	17.66	16.70	36.00	19.30

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	8.83	8.86	-	11.85	4.26	30.00	18.15	16.11	36.00	19.89
2441	-	8.95	8.87	-	11.92	3.91	30.00	18.08	15.83	36.00	20.17
2480	-	8.90	8.83	-	11.88	4.36	30.00	18.12	16.24	36.00	19.76

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.21	9.20	-	12.21	4.26	30.00	17.79	16.47	36.00	19.53
2441	-	9.39	9.17	-	12.29	3.91	30.00	17.71	16.21	36.00	19.79
2480	-	9.31	9.17	-	12.25	4.36	30.00	17.75	16.61	36.00	19.39

5 Radiated Test Results

5.1 Radiated Emissions <1 GHz

Test Summary:

Test Engineer:	Nick Steele	Test Date:	18 February 2026
Test Sample Serial Number:	GX2W350QP7		

FCC Clause:	Parts 15.247(d) & 15.209(a)
ISED Canada Clause:	RSS-247 6.6 / RSS-Gen 6.13 & 8.9
Test Method Used:	ANSI C63.10 Sections 6.3 & 6.5
Frequency Range	30 MHz to 1000 MHz

Environmental Conditions:

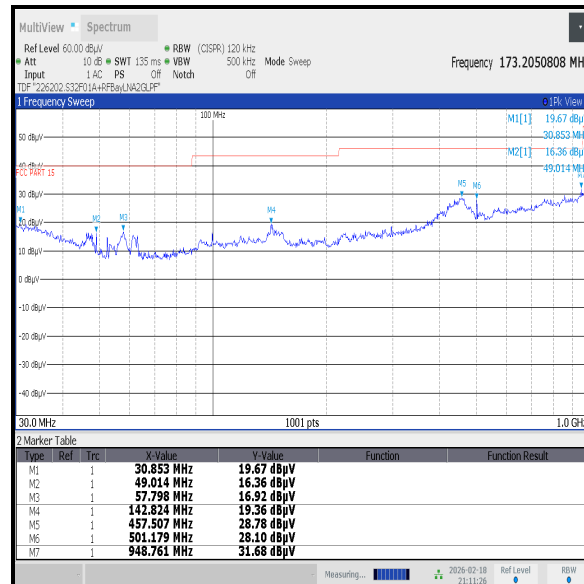
Temperature (°C):	19
Relative Humidity (%):	37

Note(s):

1. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore, final radiated emissions measurements were performed with the EUT set to the middle channel only.
2. All emissions shown on the pre-scans were investigated and found to be ambient, or > 20 dB below the appropriate limit or below the noise floor of the measurement system. Therefore, the highest peak noise floor reading of the measuring receiver was recorded in the table below.
3. Measurements from 30 MHz to 1 GHz were performed in a semi-anechoic chamber (Asset Number K226202) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Radiated Emissions (continued)**Results: Peak / Middle Channel / DH5 / Beamforming / Core 0 + Core 1 / ePA**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
948.761	31.68	54.00	22.32	Horizontal



5.2 Radiated Emissions >1 GHz

Test Summary:

Test Engineers:	Nick Steele & Faissal Merzaki	Test Dates:	16 February 2026 & 17 February 2026
Test Sample Serial Number:	GX2W350QP7		

FCC Clause:	Parts 15.247(d) & 15.209(a)
ISED Canada Clause:	RSS-247 6.6 / RSS-Gen 6.13 & 8.9
Test Method Used:	ANSI C63.10 Sections 6.3, 6.6 & 7.5
Frequency Range	1 GHz to 26 GHz

Environmental Conditions:

Temperature (°C):	20 to 21
Relative Humidity (%):	37 to 40

Note(s):

1. No spurious emissions were detected above the noise floor of the measuring receiver for all channels tested therefore the highest peak and average noise floor readings of the measuring receiver for the middle channel were recorded as shown in the tables below.
2. The emission shown on the 1 GHz to 3 GHz plot is the EUT fundamental.
3. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K226202) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT.

Radiated Emissions (continued)

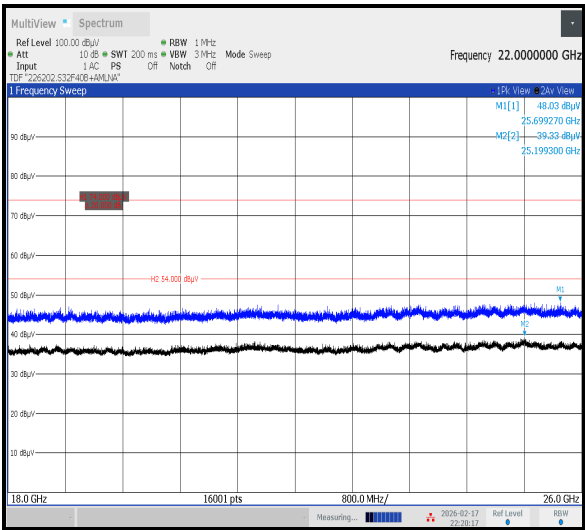
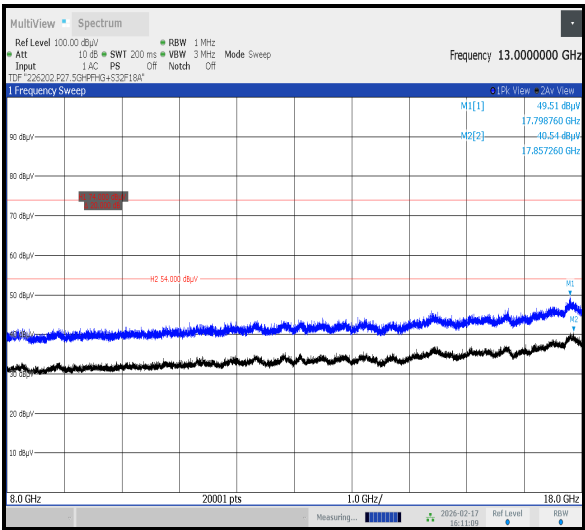
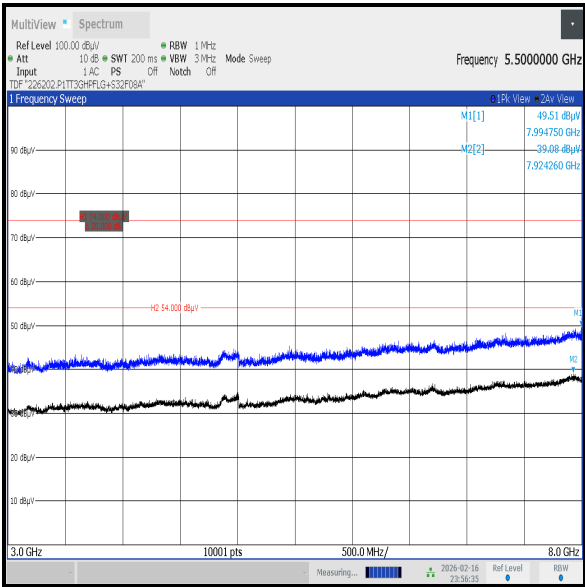
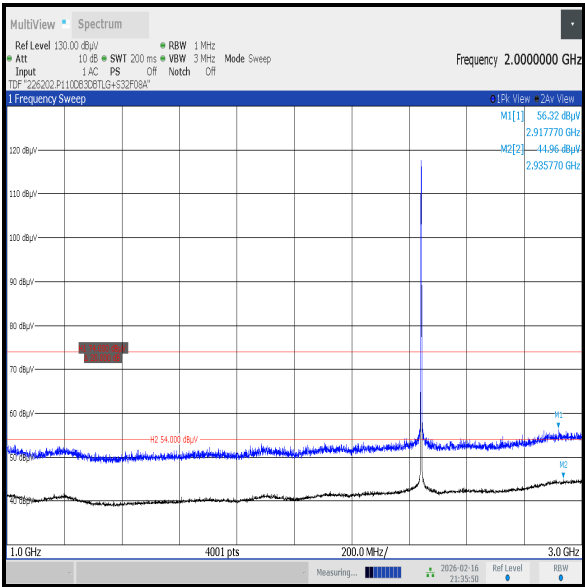
Results: DH5 / Beamforming / Core 0 + Core 1 / ePA

Results: Middle Channel / Peak

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarity
2917.770	56.32	74.00	17.68	Horizontal

Results: Middle Channel / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarity
2935.770	44.96	54.00	9.04	Horizontal



5.3 Band Edge Radiated Emissions

Test Summary:

Test Engineers:	Nick Steele & Robert English	Test Dates:	11 February 2026 to 13 February 2026
Test Sample Serial Number:	GX2W350QP7		

FCC Clause:	Parts 15.247(d) & 15.209(a)
ISED Canada Clause:	RSS-247 6.6 / RSS-Gen 6.13
Test Method Used:	ANSI C63.10 Section 6.10 & 7.5

Environmental Conditions:

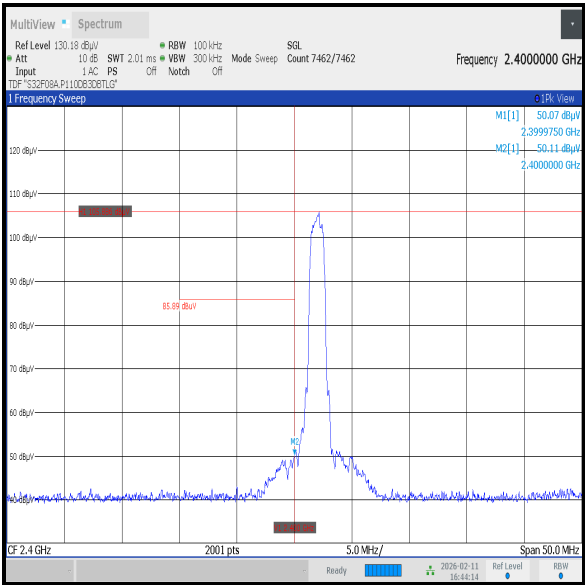
Temperature (°C):	20
Relative Humidity (%):	46 to 48

Note(s):

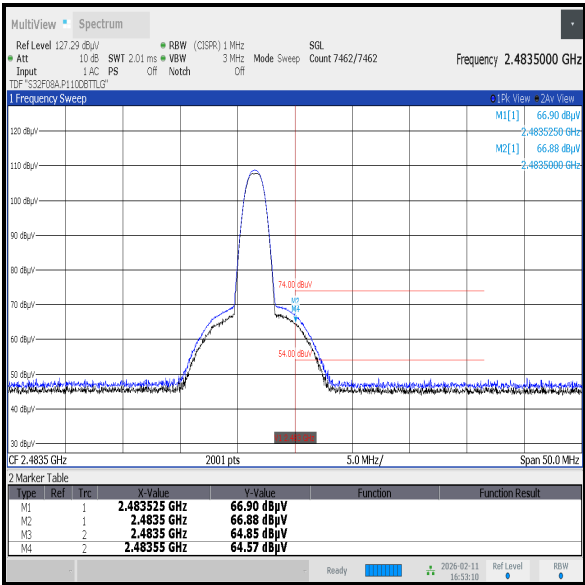
1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. ## For the average band edge measurements: The corrected average level has been obtained by subtracting the calculated duty cycle correction factor from the measured peak level for any restricted band emissions related to the fundamental. See Appendix 1 for further information.
3. Example plots of the worst-case static and hopping configurations, can be seen below to show setting parameters comply with testing method/procedure. All other plots are archived on the UL IT server and available for inspection if required.

Band Edge Radiated Emissions (continued)

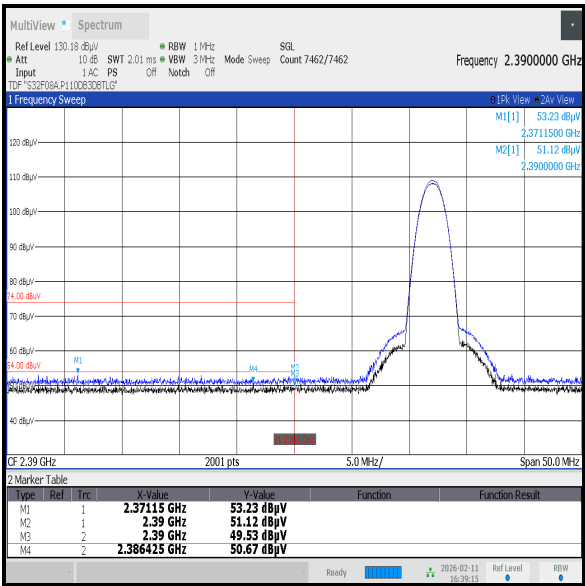
Example Plots / Static Mode / 3DH5 / Beamforming / Core 0 + Core 1 / iPA



Lower Band Edge – Non Restricted Band



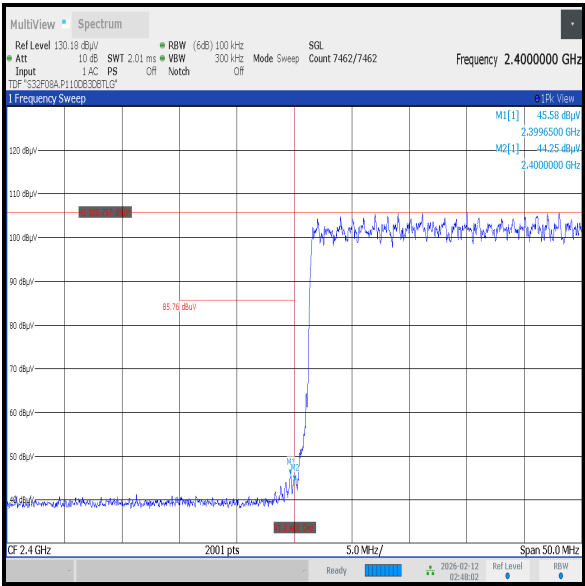
Upper Band Edge – Restricted Band



Lower Band Edge – Restricted Band

Band Edge Radiated Emissions (continued)

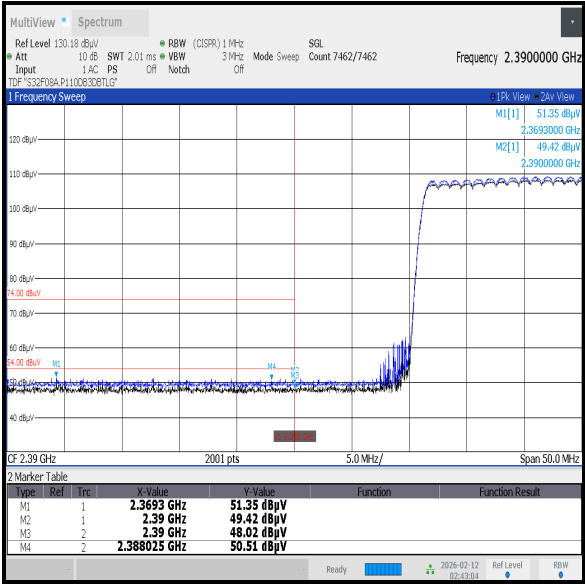
Example Plots / Hopping Mode / 3DH5 / Beamforming / Core 0 + Core 1 / iPA



Lower Band Edge – Non Restricted Band



Upper Band Edge – Restricted Band



Lower Band Edge – Restricted Band

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 0 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	50.24	95.81	45.57	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.850	54.04	74.00	19.96	Horizontal
2483.525	55.41	74.00	18.59	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.850	35.04##	54.00	18.96	Horizontal
2483.525	36.41##	54.00	17.59	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 0 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.850	45.74	94.95	49.21	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.825	52.34	74.00	21.66	Horizontal
2483.550	54.62	74.00	19.38	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.825	33.34##	54.00	20.66	Horizontal
2483.550	35.62##	54.00	18.38	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 0 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	52.91	94.77	42.04	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.300	55.72	74.00	18.28	Horizontal
2483.775	56.72	74.00	17.28	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.300	36.72 ^{##}	54.00	17.28	Horizontal
2483.775	37.72 ^{##}	54.00	16.28	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 0 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	52.63	94.61	42.32	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.525	52.41	74.00	21.59	Horizontal
2483.850	54.72	74.00	19.28	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.525	33.41 ^{##}	54.00	20.59	Horizontal
2483.850	35.72 ^{##}	54.00	18.28	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 0 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	54.48	95.12	40.64	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.050	54.60	74.00	19.40	Horizontal
2483.550	59.32	74.00	14.68	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.050	35.60 ^{##}	54.00	18.40	Horizontal
2483.550	40.32 ^{##}	54.00	13.68	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 0 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.475	49.86	95.30	45.44	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.475	52.65	74.00	21.35	Horizontal
2483.525	58.49	74.00	15.51	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.475	33.65 ^{##}	54.00	20.35	Horizontal
2483.525	39.49 ^{##}	54.00	14.51	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 1 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.950	50.26	95.31	45.05	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.675	54.71	74.00	19.29	Horizontal
2483.700	55.38	74.00	18.62	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.675	35.71 ^{##}	54.00	18.29	Horizontal
2483.700	36.38 ^{##}	54.00	17.62	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 1 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.975	46.94	95.75	48.81	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2366.050	52.21	74.00	21.79	Horizontal
2483.525	54.26	74.00	19.74	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2366.050	33.21 ^{##}	54.00	20.79	Horizontal
2483.525	35.26 ^{##}	54.00	18.74	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 1 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	53.62	95.63	42.01	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.675	54.5	74.00	19.50	Horizontal
2483.600	57.73	74.00	16.27	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.675	35.5 ^{##}	54.00	18.50	Horizontal
2483.600	38.73 ^{##}	54.00	15.27	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 1 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	47.49	96.57	49.08	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.725	52.05	74.00	21.95	Horizontal
2483.675	54.34	74.00	19.66	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.725	33.05 ^{##}	54.00	20.95	Horizontal
2483.675	35.34 ^{##}	54.00	18.66	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 1 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.475	54.19	96.06	41.87	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.500	53.85	74.00	20.15	Horizontal
2483.525	61.04	74.00	12.96	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.500	34.85##	54.00	19.15	Horizontal
2483.525	42.04##	54.00	11.96	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 1 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	51.91	95.78	43.87	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.900	52.65	74.00	21.35	Horizontal
2483.775	58.15	74.00	15.85	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.900	33.65##	54.00	20.35	Horizontal
2483.775	39.15##	54.00	14.85	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 0 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.950	48.26	85.33	37.07	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.825	52.73	74.00	21.27	Horizontal
2483.700	55.68	74.00	18.32	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.825	33.73 ^{##}	54.00	20.27	Horizontal
2483.700	36.68 ^{##}	54.00	17.32	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 0 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.950	43.54	85.66	42.12	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2367.750	51.48	74.00	22.52	Horizontal
2483.550	51.79	74.00	22.21	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2367.750	32.48 ^{##}	54.00	21.52	Horizontal
2483.550	32.79 ^{##}	54.00	21.21	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 0 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	43.57	81.56	37.99	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2369.975	53.61	74.00	20.39	Horizontal
2483.575	50.46	74.00	23.54	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2369.975	34.61 ^{##}	54.00	19.39	Horizontal
2483.575	31.46 ^{##}	54.00	22.54	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 0 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2393.875	40.98	81.64	40.66	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.975	51.60	74.00	22.40	Horizontal
2498.825	48.63	74.00	25.37	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.975	32.60 ^{##}	54.00	21.40	Horizontal
2498.825	29.63 ^{##}	54.00	24.37	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 0 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.600	50.80	82.29	31.49	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2384.450	53.62	74.00	20.38	Horizontal
2483.5	64.90	74.00	9.10	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2384.450	34.62 ^{##}	54.00	19.38	Horizontal
2483.5	45.90 ^{##}	54.00	8.10	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 0 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.625	46.71	81.88	35.17	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.425	51.58	74.00	22.42	Horizontal
2483.5	62.90	74.00	11.10	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.425	32.58 ^{##}	54.00	21.42	Horizontal
2483.5	43.90 ^{##}	54.00	10.10	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 1 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.800	46.10	86.04	39.94	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2377.125	53.40	74.00	20.60	Horizontal
2483.600	51.22	74.00	22.78	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2377.125	34.40 ^{##}	54.00	19.60	Horizontal
2483.600	32.22 ^{##}	54.00	21.78	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 1 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.975	42.77	86.33	43.56	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2381.150	51.81	74.00	22.19	Horizontal
2483.650	50.45	74.00	23.55	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2381.150	32.81 ^{##}	54.00	21.19	Horizontal
2483.650	31.45 ^{##}	54.00	22.55	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 1 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.975	44.46	81.70	37.24	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.975	53.27	74.00	20.73	Horizontal
2484.825	49.36	74.00	24.64	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.975	34.27 ^{##}	54.00	19.73	Horizontal
2484.825	30.36 ^{##}	54.00	23.64	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 1 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2395.650	41.07	81.33	40.26	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.200	51.60	74.00	22.40	Horizontal
2490.375	48.64	74.00	25.36	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.200	32.60 ^{##}	54.00	21.40	Horizontal
2490.375	29.64 ^{##}	54.00	24.36	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 1 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	44.33	82.60	38.27	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.150	52.96	74.00	21.04	Horizontal
2483.650	56.41	74.00	17.59	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.150	33.96 ^{##}	54.00	20.04	Horizontal
2483.650	37.41 ^{##}	54.00	16.59	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 1 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	42.21	82.54	40.33	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.700	51.74	74.00	22.26	Horizontal
2483.825	54.31	74.00	19.69	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.700	32.74 ^{##}	54.00	21.26	Horizontal
2483.825	35.31 ^{##}	54.00	18.69	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 2 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.450	54.86	89.30	34.44	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2381.200	53.23	74.00	20.77	Vertical
2497.200	46.21	74.00	27.79	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2381.200	34.23 ^{##}	54.00	19.77	Vertical
2497.200	27.21 ^{##}	54.00	26.79	Vertical

Results: Hopping Mode / DH5 / SISO / Core 2 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.300	49.28	88.18	38.90	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.700	51.88	74.00	22.12	Vertical
2496.600	48.42	74.00	25.58	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.700	32.88 ^{##}	54.00	21.12	Vertical
2496.600	29.42 ^{##}	54.00	24.58	Vertical

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 2 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.575	55.54	85.67	30.13	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2379.025	52.97	74.00	21.03	Vertical
2483.550	53.80	74.00	20.20	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2379.025	33.97##	54.00	20.03	Vertical
2483.550	34.80##	54.00	19.20	Vertical

Results: Hopping Mode / 2DH5 / SISO / Core 2 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.875	52.21	85.23	33.02	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.825	51.49	74.00	22.51	Vertical
2483.5	52.71	74.00	21.29	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.825	32.49##	54.00	21.51	Vertical
2483.5	33.71##	54.00	20.29	Vertical

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 2 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.725	59.27	85.83	26.56	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2376.125	54.10	74.00	19.90	Vertical
2483.5	52.76	74.00	21.24	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2376.125	35.10 ^{##}	54.00	18.90	Vertical
2483.5	33.76 ^{##}	54.00	20.24	Vertical

Results: Hopping Mode / 3DH5 / SISO / Core 2 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.725	56.52	86.43	29.91	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2372.200	51.64	74.00	22.36	Vertical
2483.575	51.43	74.00	22.57	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2372.200	32.64 ^{##}	54.00	21.36	Vertical
2483.575	32.43 ^{##}	54.00	21.57	Vertical

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / Beamforming / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.900	50.75	99.67	48.92	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.075	54.74	74.00	19.26	Horizontal
2483.600	56.62	74.00	17.38	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.075	35.74 ^{##}	54.00	18.26	Horizontal
2483.600	37.62 ^{##}	54.00	16.38	Horizontal

Results: Hopping Mode / DH5 / Beamforming / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	46.79	99.77	52.98	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.625	52.75	74.00	21.25	Horizontal
2483.650	56.07	74.00	17.93	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.625	33.75 ^{##}	54.00	20.25	Horizontal
2483.650	37.07 ^{##}	54.00	16.93	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / Beamforming / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	59.12	99.49	40.37	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.925	54.44	74.00	19.56	Horizontal
2483.5	61.12	74.00	12.88	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.925	35.44##	54.00	18.56	Horizontal
2483.5	42.12##	54.00	11.88	Horizontal

Results: Hopping Mode / 2DH5 / Beamforming / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	50.88	99.16	48.28	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.625	52.17	74.00	21.83	Horizontal
2483.850	61.26	74.00	12.74	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.625	33.17##	54.00	20.83	Horizontal
2483.850	42.26##	54.00	11.74	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / Beamforming / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	59.56	100.03	40.47	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.700	54.40	74.00	19.60	Horizontal
2483.5	63.54	74.00	10.46	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.700	35.40 ^{##}	54.00	18.60	Horizontal
2483.5	44.54 ^{##}	54.00	9.46	Horizontal

Results: Hopping Mode / 3DH5 / Beamforming / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.625	51.11	97.79	46.68	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2384.525	52.65	74.00	21.35	Horizontal
2483.750	60.33	74.00	13.67	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2384.525	33.65 ^{##}	54.00	20.35	Horizontal
2483.750	41.33 ^{##}	54.00	12.67	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / Beamforming / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.925	46.29	89.66	43.37	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2378.800	53.11	74.00	20.89	Horizontal
2483.5	58.81	74.00	15.19	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2378.800	34.11##	54.00	19.89	Horizontal
2483.5	39.81##	54.00	14.19	Horizontal

Results: Hopping Mode / DH5 / Beamforming / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.475	43.59	87.38	43.79	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2370.225	51.21	74.00	22.79	Horizontal
2483.525	54.18	74.00	19.82	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2370.225	32.21##	54.00	21.79	Horizontal
2483.525	35.18##	54.00	18.82	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / Beamforming / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.900	47.24	86.00	38.76	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2380.075	53.26	74.00	20.74	Horizontal
2483.550	51.42	74.00	22.58	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2380.075	34.26 ^{##}	54.00	19.74	Horizontal
2483.550	32.42 ^{##}	54.00	21.58	Horizontal

Results: Hopping Mode / 2DH5 / Beamforming / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.900	43.50	85.73	42.23	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2368.375	51.81	74.00	22.19	Horizontal
2488.250	48.63	74.00	25.37	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2368.375	32.81 ^{##}	54.00	21.19	Horizontal
2488.250	29.63 ^{##}	54.00	24.37	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / Beamforming / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	50.11	85.89	35.78	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2371.150	53.23	74.00	20.77	Horizontal
2483.525	66.90	74.00	7.10	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2371.150	34.23 ^{##}	54.00	19.77	Horizontal
2483.525	47.90 ^{##}	54.00	6.10	Horizontal

Results: Hopping Mode / 3DH5 / Beamforming / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.650	45.58	85.76	40.18	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2369.300	51.35	74.00	22.65	Horizontal
2483.650	65.83	74.00	8.17	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2369.300	32.35 ^{##}	54.00	21.65	Horizontal
2483.650	46.83 ^{##}	54.00	7.17	Horizontal

Appendix 1

FHSS Duty Cycle Correction Factor Calculation

In accordance with ANSI C63.10 section 7.5, a duty cycle correction factor may be applied to calculate the average radiated field strength emission levels for an FHSS device.

The following values were taken from the *Bluetooth* Core Specification V6.0 to give the worst case correction:

Modulation	DH5, 2DH5 and 3DH5
Channel Hopping Rate (Hops/s)	1600
Tx Timeslots	5
Rx Timeslots	1
Adjusted Hopping Rate for Adaptive Frequency Hopping (Hops/s)	266.667
Time per Hop (ms)	3.75
Minimum Number of Channels	20
Time per Hop Sequence (ms)	75
Maximum Number of Hops on One Channel in any 100 ms Observation Period	3
Maximum Dwell Time on One Channel in any 100 ms Observation Period (ms)	11.25
Calculated Duty cycle correction factor applied (dB)	19.0
Maximum Duty cycle correction factor applied (dB)	19.0

The duty cycle correction factor was calculated based on the above values:

$$DH5, 2DH5 \text{ and } 3DH5: 20 * \text{Log}(11.25 \text{ ms} / 100 \text{ ms}) = 19.0 \text{ dB}$$

--- END OF REPORT ---