



Technical Report to the FCC and ISED Regarding Gentex Corporation

Model: DEFRX6
FCC ID: NZLDEFRX6
ISED: 4112A-DEFRX6

Emission Designator: 1M029L1D
3/24/2026

A report concerning approval for Gentex Corporation Homelink® model DEFRX6
Please issue grant immediately upon review.

Report Prepared and Measurements made by:

Patricia Szeszulski

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Date: 2026.04.21 09:15:34 -04'00'

Patricia Szeszulski
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Measurements Reviewed by:

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Michael Foster
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Report Submitted by:

Brian Miller

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Report Approved by:

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Test Report Revision

REV Number	Date	Author	Description
1.0	1/22/2026	Patricia Szeszulski	Initial Release
2.0	3/24/2026	Patricia Szeszulski	Updated RSS-247 references.

Results relate only to the items tested as received.

Compliance has been evaluated based on the Lab Manual section 7.6.2. The decision rule used regarding measurement uncertainty was to determine results solely on whether the measured values met the defined acceptance criteria without factoring in measurement uncertainty values.

1. General Information

1.1. Product Description

The Gentex Corporation Homelink Default Receiver is a low-power transceiver device. The Default Receiver is a tool developed by Gentex Corporation to verify the default sub-GHz and BLE test signals coming from the Homelink Universal Garage Door opener product in manufacturing.

In its operating mode, the Default Receiver operates (receive only) at 310MHz, 315MHz, and 433MHz. It also operates as a transceiver at 2400-2483.5MHz under the requirements of 47 CFR Part 15.247 and RSS-247 issue 4.

The antenna system is not integral part of the unit. Antenna description is provided in a separate document

1.2. Related Grants

This device will have functionality that is covered under 47 CFR 15B. The device will have an FCC ID # of NZLDEFRX6 and an ISED ID # of 4112A-DEFRX6 under both rule parts. Separate reports were submitted for functionality covered under 47 CFR part 15B

1.3. Test Methodology

Radiated Emissions testing was performed according to ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024. The power source for this product is a USB cable or powered through a serial connector.

Conducted measurements were performed using a power supply.

Measurements were performed per FCC OET KDB 558074.

For testing purposes, a 2-conductor cable harness was used to interface to the unit. The unit ground is provided through the negative terminal of the harness.

1.4. Test Facility

The 3-meter semi-anechoic chamber where these measurements were taken, is located on the grounds of Gentex Corporation's Corporate Labs, in the city of Zeeland, county of Ottawa, state of Michigan, United States of America.

For radiated measurements above 1 GHz, RF absorbing material is placed between the antenna and EUT in accordance with ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024 Section 5.5 and chamber manufacturer's instructions.

The 3m chamber has been added to our A2LA scope of accreditation on 05/20/2016 and includes accreditation to ANSI C63.4:2014, ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024. The report filed with ISED, dated February 11, 2015, was accepted via a letter dated February 11, 2015. Our 3m chamber is registered with the ISED under Site# 4112A-2 and FCC under registration number 357351.

Corporate Mailing/Shipping Address

Gentex Corporation
600 N. Centennial Street
Zeeland, MI 49464

Site Address

Gentex Corporation
380 Riley Street
Zeeland, MI 49423

1.5. Accreditation

The Gentex Corporate EMC Lab is accredited to ISO/IEC 17025 by the American Association for Laboratory Accreditation (A2LA). Our laboratory scope and accreditation certificate #[2529.01](#) are available from their web site www.a2la.org. Our scope of accreditation covers ANSI C63.4:2014, ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024, and Radiated Emissions at 3m, FCC 47 CFR Part 15, ISSED RSS-210, and ISSED RSS-247 Issue 4.

2. Product Labeling

2.1. Identifiers

The FCC Identifier assigned is FCC ID: NZLDEFRX6. The ISSED certification number is 4112A-DEFRX6. These identifiers will be labeled on the product housing.

The label will be placed on the exterior of the HL housing using laser etching that will permanently affix the label.

Because of the small size of the device the following statements will appear in the user's manual. Refer to attachment "Users Manual.pdf" for the entire text of the user's manual.

"This device complies with FCC rules Part 15 and with ISSED RSS-247. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (2) This device must accept any interference that may be received including interference that may cause undesired operation.

WARNING: The transmitter has been tested and complies with FCC and ISSED rules. Changes or modifications not expressly approved by the party responsible for the compliance could void the user's authority to operate the device."

The term "ISSED:" before the certification/registration number only signifies that ISSED technical specifications were met.

ISSED: 4112A-DEFRX6

FCC ID: NZLDEFRX6

MODEL: DEFrx6

2.2. Label Drawing and Location on Product

The label drawing and location of the label on the assembly is included in the "Label Location.pdf" attachment.

3. Test Configuration

Radiated Emission measurements presented in the report were made in accordance with ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024. The EUT was placed on a 1 x 1.5m non-metallic table elevated 80cm above a conducting ground plane for measurements below 1GHz and elevated to 1.5m for measurements above 1GHz. The harness was run down the edge of the test table to a power supply beneath the turntable

For radiated measurements above 1 GHz, RF absorbing material is placed between the antenna and EUT in accordance with ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024 Section 5.5 and chamber manufacturer's instructions.

For conducted measurements, a non-metallic table approximately 80cm x 90cm, 85cm above the floor was used.

4. Emissions Data

4.1. Date(s) Tested: 1/13/2026-1/21/2026

4.2. Test Method Deviations: None

4.3. Temperature and Humidity conditions

	Measured Value	Unit
Temperature	21.7-22.8	°C
Humidity	39.6-48.4	%R.H.

4.4. Summary of Results (Part 15.247)

Measurement		Margin (dB)	Frequency (MHz)
Worst Case Spurious Emission	48.13 dBuV/m	5.87	14880 MHz
Maximum Peak Conducted Output Power	6.43 dBm	23.57	-
Minimum 6dB Bandwidth	607.8 kHz	107.8 kHz	-
Maximum 99% bandwidth	1029 kHz	-	-
Maximum Power Spectral Density	6.16 dBm	1.84	-

- **DTS (6dB) Bandwidth:** Per FCC 15.247(a)(2) and RSS-247 the minimum 6dB bandwidth shall be at least 500kHz for all systems using digital modulation techniques.
- **Band Edge Measurement Requirement:** Per section 15.247(d), 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).
- **Measurement Uncertainty:** The standard uncertainty of measurement has been determined in accordance with the ISO Guide to the Expression of Uncertainty in Measurements. The estimation of measurement uncertainty reported is the expanded uncertainty for a coverage factor of $k=2.26$ and confidence interval of approximately 95%.

Expanded Uncertainty $U_{(k=2.26)}$ is as follows:

- Radiated Emissions – Bicon (30-250 MHz): 4.1 dB
- Radiated Emissions – LPA (250-1000 MHz): 5.0 dB
- Radiated Emissions – DRWG (26.5 GHz): 4.2 dB
- Conducted Emissions: 1.04 dB
- Frequency: 0.007 ppm

4.5. Test Equipment Setup and Procedure

4.5.1. Sample(s) Used for Measurements

Sample ID(s):	605-7063-162802-1
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4.5.2. Test Equipment

Radiated Test Equipment

Equipment Used						
ID / Serial #	Manufacturer	Description	Type	Cal / PM Due Date	last Cal Date	Interval
6595*	Rohde & Schwarz	ESR26	EMI Receiver	02/19/2026	11/19/2024	1 Year
CF GCL	Megaphase / Pasternack	CBL 94, CBL 96, CBL 158, AT26, Port N3	Cable and Feedthroughs	8/31/2026	8/31/2025	1 Year
H6187	EMCO	3110B Biconical RX	Antenna	05/13/2027	5/13/2024	3 Years
H6192	EMCO	3148 Log Periodic RX	Antenna	05/13/2027	5/13/2024	3 Years
Tower 2	ETS-Lindgren	2171B Boresight Tower	Antenna Positioner	VBU	VBU	N/A
S/N: PJ2246	Lindgren	3M Chamber	Shielded Enclosure	3/31/2026	12/10/2025	Quarterly
7362	Omega	iBTHX-W Virtual	Chart Recorder	03/31/2026	3/31/2025	1 Year
6539	Stanley	Tape Measure	Measurement Tool	06/19/2026	6/19/2023	3 years
H4554	Fluke	87	Multimeter	01/29/2026	1/29/2025	1 Year
SW30	Gentex	3m Chamber Software	Software	3/31/2026	3/31/2025	1 Year
SW48	Gentex	Gentex Emissions Measurement Software	Software	3/31/2026	3/31/2025	1 Year
8893	Com-Power	AHA-118 Double Ridged Waveguide Horn	Antenna	04/22/2027	4/22/2024	3 Years
S/N:273123	Sonoma Instrument Co.	310N, 32dB	Preamplifier	12/31/2026	12/11/2025	1 Year
6368	Rohde & Schwarz	SMB100A	Signal Generator	12/03/2026	12/3/2025	1 Year
Absorber 1	ETS-Lindgren	EHP-12PCL	Absorber Material	VBU	VBU	N/A
CBL 143	MegaPhase	GC29-N1N1-192	Cable	4/30/2026	4/6/2025	1 Year
7691	A.H. Systems Inc.	SAS-571 Double Ridged Guide Horn	Antenna	7/5/2026	7/5/2023	3 Years
7257	ETS-Lindgren	3116C Double Ridged Waveguide Horn	Antenna	6/27/2028	6/27/2025	3 Years
S/N:419726	AIM-TTI	PL303-P	Power Supply	VBU	VBU	N/A
S/N:2053240	Miteq	AMF-4D-00501800-24-10P, 30 dB	Preamplifier	12/31/2026	12/11/2025	1 Year
FLT009	Mini-Circuits	ZHFG-K4000+, 4500 MHz High Pass Filter, DC - 18 GHz	Filter	1/31/2026	1/21/2025	1 Year
CBL 147	Megaphase	EMC2-S1S1-96	Cable	10/31/2026	10/14/2025	1 Year
S/N:2069595	Miteq	AMF-4F-18002650-20-10P, 30 dB	Preamplifier	10/31/2026	10/14/2025	1 Year
CBL 149	Megaphase	GC19-S1S1-72	Cable	10/31/2026	10/14/2025	1 Year
CBL 146	Megaphase	EMC2-S1S1-72	Cable	10/31/2026	10/14/2025	1 Year
CBL 143	MegaPhase	GC29-N1N1-192	Cable	4/30/2026	4/6/2025	1 Year

Conducted Test Equipment

Equipment Used						
ID / Serial #	Manufacturer	Description	Type	Cal / PM Due Date	last Cal Date	Interval
6595*	Rohde & Schwarz	ESR26	EMI Receiver	02/19/2026	11/19/2024	1 Year
7362	Omega	iBTHX-W Virtual	Chart Recorder	03/31/2026	3/31/2025	1 Year
CBL 149	Megaphase	GC19-S1S1-72	Cable	10/31/2026	10/14/2025	1 Year
SW48	Gentex	Gentex Emissions Measurement Software	Software	3/31/2026	3/31/2025	1 Year
FLT009	Mini-Circuits	ZHFG-K4000+, 4500 MHz High Pass Filter, DC - 18 GHz	Filter	1/31/2026	1/21/2025	1 Year
AT55	Pasternack	PE7094-10, 10 dB, DC to 18 GHz, 2W	Attenuator	1/31/2026	1/21/2025	1 Year
AT56	Pasternack	PE7094-10, 10 dB, DC to 18 GHz, 2W	Attenuator	1/31/2026	1/21/2025	1 Year

*Equipment Calibration has been extended.

4.5.3. Test Equipment Setup and Procedure

EMI Receiver Settings Emissions:

Detector Function : Peak
Resolution Bandwidth :100kHz (below 1GHz)
:1MHz (above 1GHz)
Video Bandwidth: :300kHz (below 1GHz)
:3MHz (above 1GHz)

EMI Receiver (in Spectrum Analyzer mode) Settings Occupied Bandwidth:

Detector : Peak
Resolution Bandwidth :1 MHz (to determine peak level)
:10 kHz (to determine occupied bandwidth)
Video Bandwidth :3 MHz (to determine peak level)
:30 kHz (to determine occupied bandwidth)

Spectrum Analyzer Settings for Conducted measurements:

Detector Function : Peak
Resolution Bandwidth :120kHz (below 1GHz)
:1MHz (above 1GHz)
Video Bandwidth: :300kHz (below 1GHz)
:3MHz (above 1GHz)

For the testing, the EUT was placed at the center of a non-conducting table 80cm above the ground plane pursuant to ANSI C63.10:2020+Cor.1-2023 and ANSI C63.10a:2024 for stand-alone equipment. The 2-conductor harness was routed down the edge of the test table to a power supply beneath the turntable.

Equipment is placed in one of the three orthogonal orientations, End, side, and flat. These orientations are described below in figure 6.2.3.

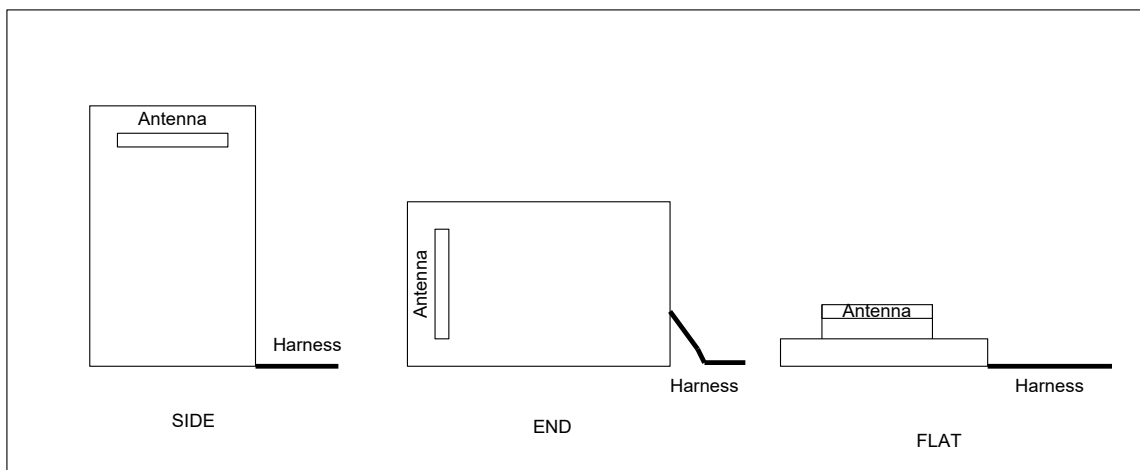


Figure 6.2.3 EUT Orthogonal Orientations

While in the prescribed orientation, the vertical antenna positioner sweeps in elevation from 1 to 4m in height until the operator finds the peak. The 3m turntable is then rotated through 360 degrees until a peak is found. The table is stopped at the peak location and the peak in elevation re-verified. Procedure is repeated for applicable orientations/measurement antenna polarizations. Radiated testing was performed in all three orientations.

4.6. Measured Data – See Appendix A

5. Formulas and Sample Calculations

5.1. Calculation of ISED Limits from RSS-247and 47 CFR Part 15.247

The Peak Tx Spurious Emissions limit for the fundamental is given by:
Limit dBuV/m= 1W ERP = 127.38 dBuV/m, which is the fundamental limit.

The Rx Spurious Emissions limit for the fundamental is given by:
Limit dBuV/m= $20 \cdot \log(200\mu\text{V/m}) = 46.0\text{dBuV/m}$

The Rx Spurious Emissions limit for the harmonics is given by:
Limit dBuV/m= $20 \cdot \log(500\mu\text{V/m}) = 54.0\text{dBuV/m}$

5.2. Antenna Gain

Antenna Gain information can be found in a separate submission.

6. Power Targets

Frequency (MHz)	Memory Map Value (decimal)
2402-2480	80

Appendix A

A. Radiated Measurements

1. TX Measurements

Measurement Settings:

Measurement Frequency: Below 1GHz

Span: 500kHz or greater

RBW: 100/120kHz

VBW: 300kHz or 3 x RBW

Sweep Time: 25ms

Attenuation: Auto

Measurement Frequency: Above 1GHz

Span: 500kHz or greater

RBW: 1MHz

VBW: 3MHz or 3 x RBW

Sweep Time: 25ms

Attenuation: Auto

This measurement is a radiated measurement performed with a receiver. Prior to measurement the EUT is placed into a continuous transmit mode with 100% duty cycle via a communications board attached to the EUT.

i. DUT Transmitting at 2402MHz (Fundamental)

Peak/Average Measurement - 2402MHz

Frequency (MHz)	Orientation (Flat/End/Side)	Measurement Polarization (H/V)	Peak Measurement (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Average Measurement (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)
2402	Flat	H	104.01	127.3	23.29	97.33	-	-
4804	End	V	49.12	74.0	24.88	36.71	54.0	17.29
7206	Side	H	54.11	74.0	19.89	41.37	54.0	12.63
9608	Side	V	56.19	74.0	17.81	43.66	54.0	10.34
12010	End	V	60.08	74.0	13.92	47.52	54.0	6.48
14412	Side	V	61.09	74.0	12.91	47.92	54.0	6.08
16814	Side	H	50.26	74.0	23.74	38.98	54.0	15.02
19216	Side	V	50.77	74.0	23.23	38.18	54.0	15.82
21618	Side	V	48.87	74.0	25.13	37.55	54.0	16.45
24020	Side	V	51.26	74.0	22.74	39.1	54.0	14.90

ii. DUT Transmitting at 2440MHz (Fundamental)

Peak/Average Measurement - 2440MHz

Frequency (MHz)	Orientation (Flat/End/Side)	Measurement Polarization (H/V)	Peak Measurement (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Average Measurement (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)
2440	Flat	H	105.05	127.3	22.25	98.48	-	-
4880	Side	H	50.71	74.0	23.29	37.35	54.0	16.65
7320	Side	V	53.48	74.0	20.52	41.28	54.0	12.72
9760	Side	V	56.57	74.0	17.43	43.58	54.0	10.42
12200	Side	V	58.78	74.0	15.22	46.69	54.0	7.31
14640	Side	V	60.65	74.0	13.35	48.05	54.0	5.95
17080	Side	V	52.69	74.0	21.31	39.89	54.0	14.11
19520	Side	V	50.06	74.0	23.94	38.33	54.0	15.67
21960	Side	V	48.9	74.0	25.10	36.87	54.0	17.13
24400	Side	V	51.34	74.0	22.66	39.29	54.0	14.71

iii. DUT Transmitting at 2480MHz (Fundamental)

Peak/Average Measurement - 2480MHz

Frequency (MHz)	Orientation (Flat/End/Side)	Measurement Polarization (H/V)	Peak Measurement (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Average Measurement (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)
2480	Flat	H	104.42	127.3	22.88	98.86	-	-
4960	Side	H	49.18	74.0	24.82	37.05	54.0	16.95
7440	Side	V	53.71	74.0	20.29	41.37	54.0	12.63
9920	Side	V	56.3	74.0	17.70	44.19	54.0	9.81
12400	Side	H	60.44	74.0	13.56	48.09	54.0	5.91
14880	Side	V	60.25	74.0	13.75	48.13	54.0	5.87
17360	Side	H	53.69	74.0	20.31	40.32	54.0	13.68
19840	Side	V	51.76	74.0	22.24	39.78	54.0	14.22
22320	Side	H	49.16	74.0	24.84	37.76	54.0	16.24
24800	Side	H	51.15	74.0	22.85	39.41	54.0	14.59

2. Restricted Band-Edge Measurement

Measurement Settings:

RBW: 1MHz

VBW: 3x RBW

Sweep time: No faster than Coupled (auto) time

Detector: Peak and Average

Trace: Max Hold

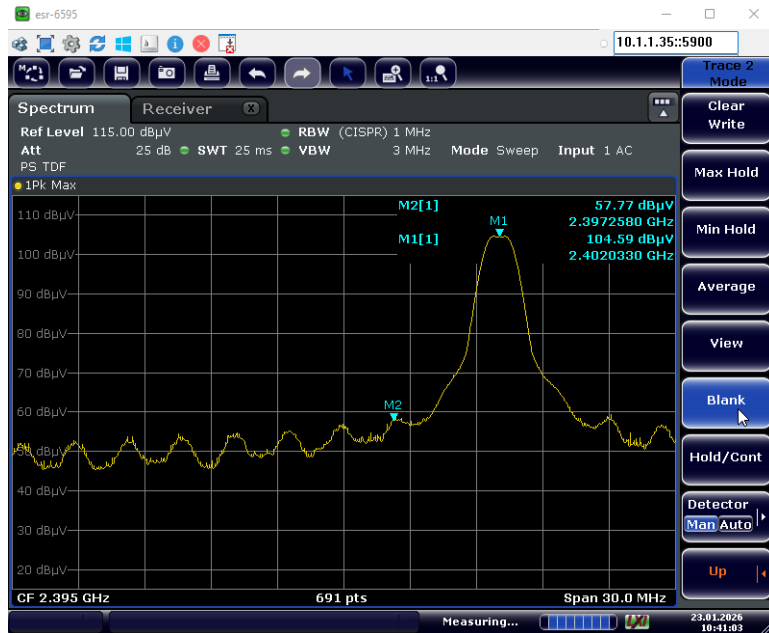
Per section 15.205 only spurious emissions are permitted in the frequency bands 2310-2390MHz and 2483.5-2500MHz and shall not exceed the limits shown in 15.209.

This measurement is a conducted measurement performed with a receiver. Prior to measurement the EUT is placed into a continuous transmit mode via a communications board attached to the EUT.

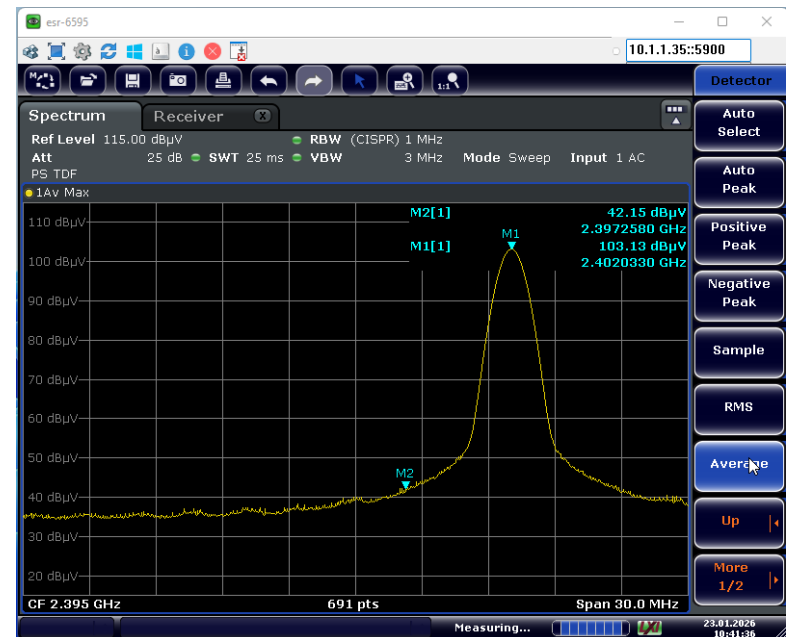
The restricted band edge measurement was performed with the transmitter set separately at 2402MHz and 2480MHz. For each of the measurements the emissions were below the limit

Measurement Frequency	Antenna Polarization	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
2397	Horizontal	57.77	74	16.23	Peak
2397	Horizontal	42.15	54	11.85	Average
2397	Vertical	52.06	74	21.94	Peak
2397	Vertical	38.22	54	15.78	Average
2483.5	Horizontal	57.62	74	16.38	Peak
2483.5	Horizontal	45.22	54	8.78	Average
2483.5	Vertical	51.3	74	22.7	Peak
2483.5	Vertical	41.17	54	12.83	Average

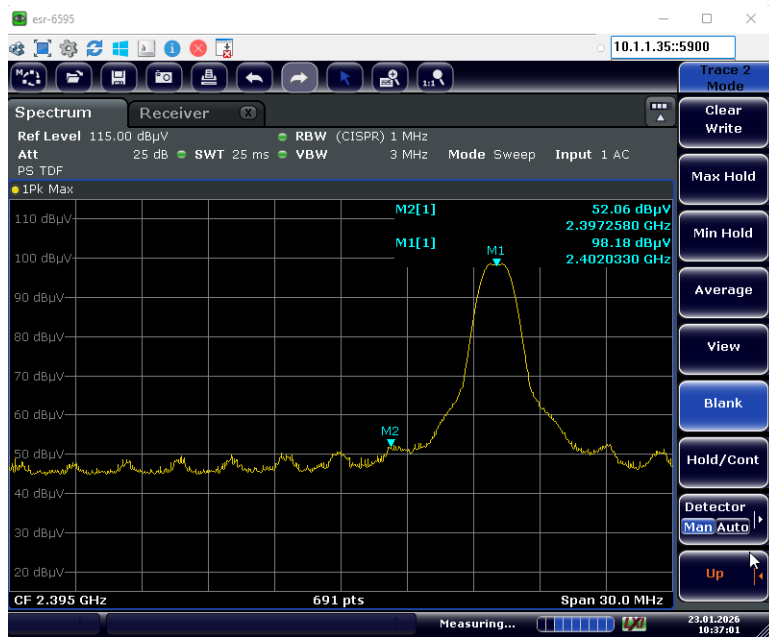
2402 MHz Peak Horizontal



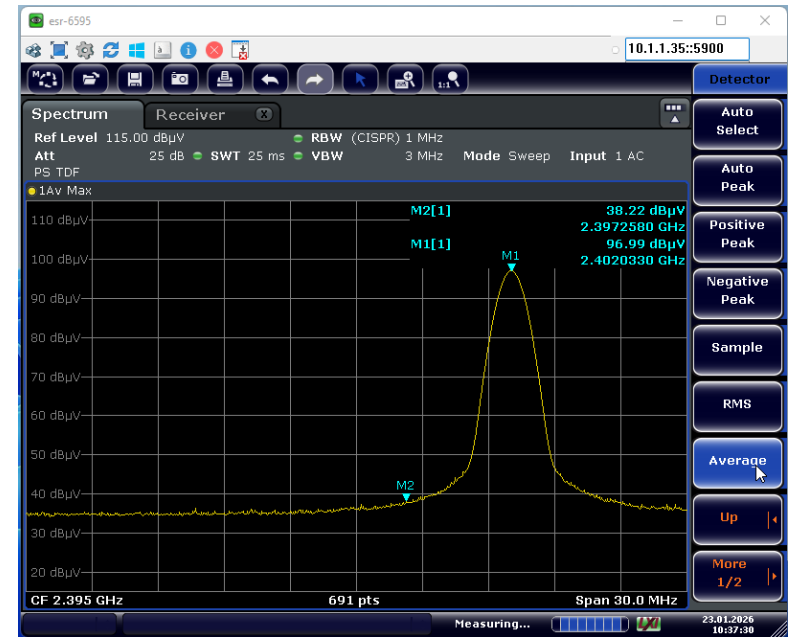
2402 MHz Average Horizontal



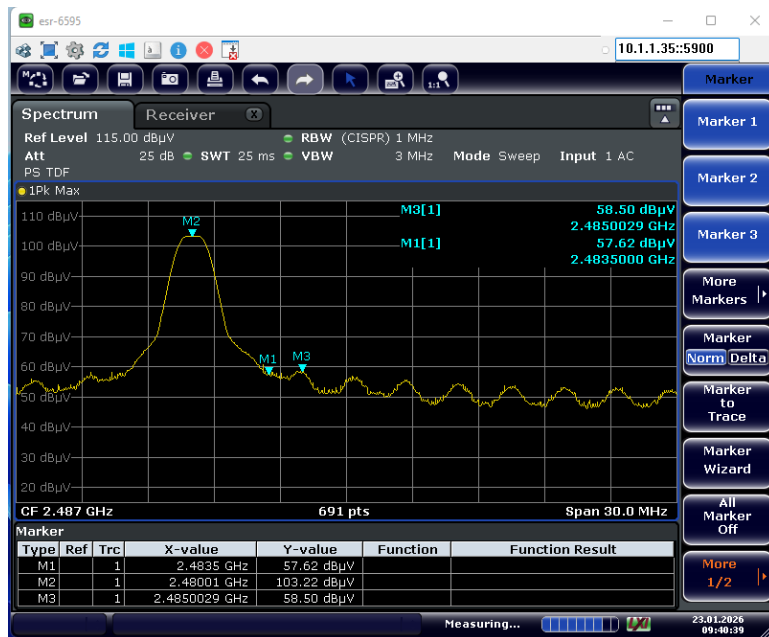
2402 MHz Peak Vertical



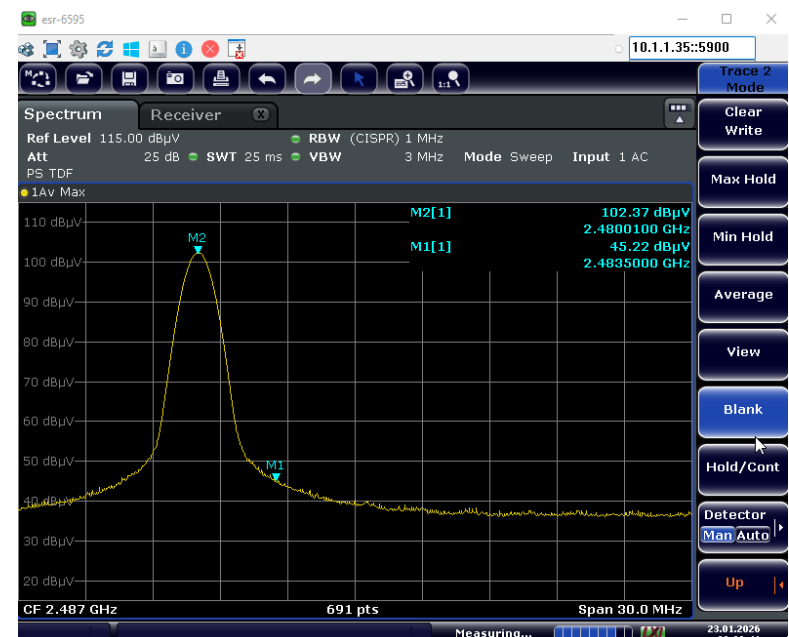
2402 MHz Average Vertical



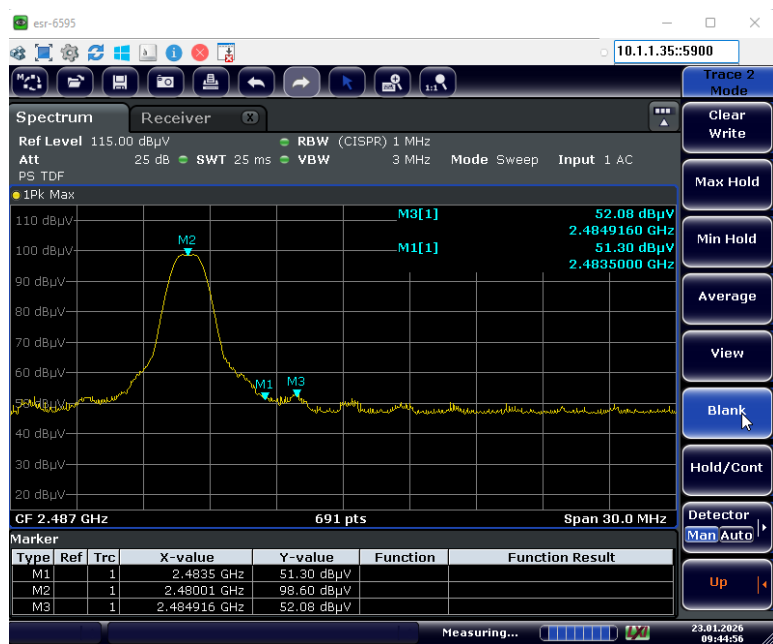
2480 MHz Peak Horizontal



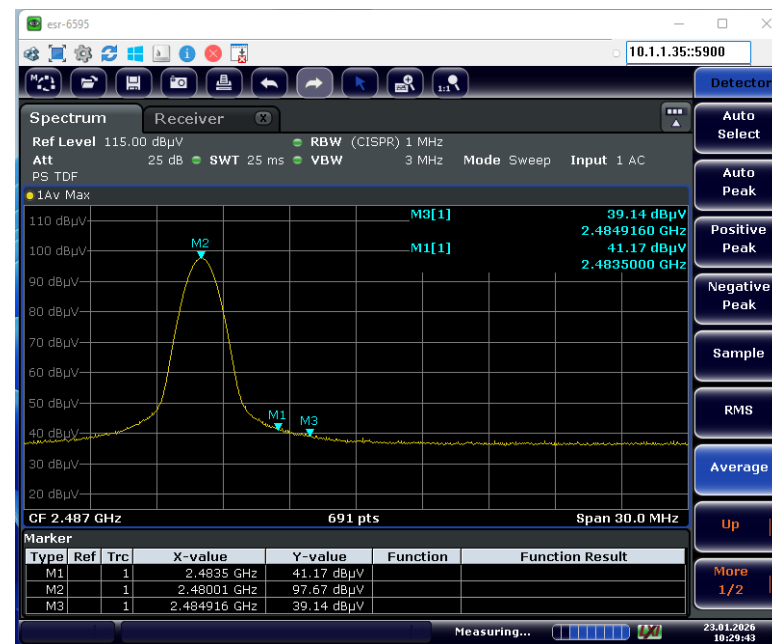
2480 MHz Average Horizontal



2480 MHz Peak Vertical



2480 MHz Average Vertical



B. Conducted Emissions

1. 99% Bandwidth

Measurement Settings:

Frequency Span: 2-5 times the OBW

RBW: 1 to 5% of the OBW without going below 10kHz

VBW: 3 times the RBW

Detector: Peak

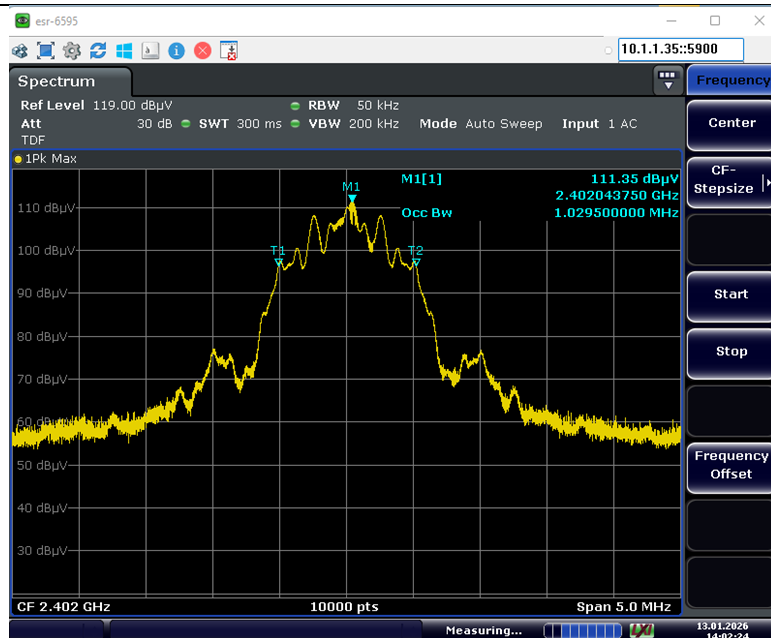
Trace Max Hold

This Measurements is a conducted measurement. Prior to the measurement the EUT is placed into a continuous transmit mode via a communications board attached to the EUT.

In the measurement of the 99% bandwidth, the transmit frequency was set to the low, middle, and high channels of operation.

Channel	99% BW (kHz)
Low	1029
Mid	1028
High	1029

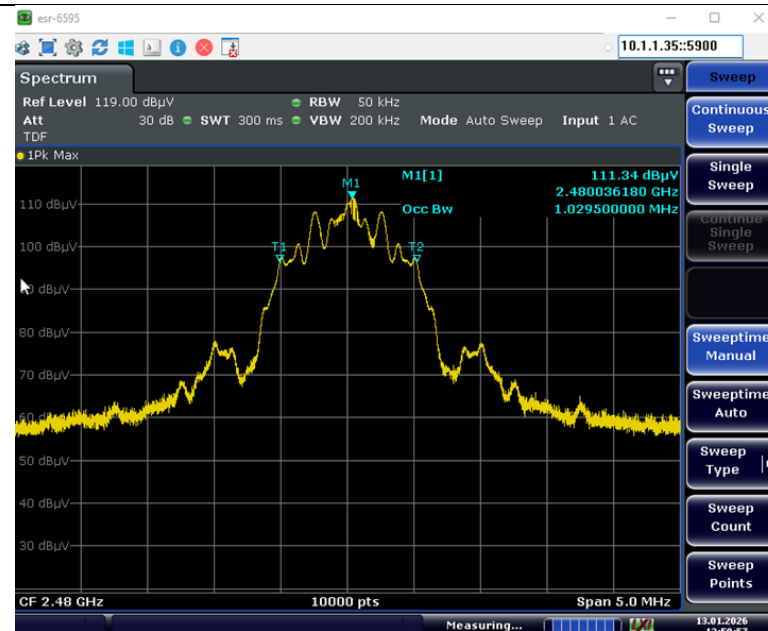
2402 MHz



2440 MHz



2480 MHz



2. 6dB Bandwidth

Measurement Settings:

RBW: in the range of 1 to 5% of the OBW but not less than 100kHz

VBW: Equal to or greater than 3 times the RBW

Span: Greater than the DTS bandwidth

Sweep time: No faster than the coupled (auto) time

Detector: Peak

Trace mode: Max Hold

6dB Bandwidth Requirement: Per 15.247(a)(2), systems using digital modulation may operate in the 2400-2483.5 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz

This measurement is a conducted measurement performed with the receiver per test method ANSI C63.10 section 11.8. Prior to measurement the EUT is placed into a continuous transmit mode via a communication board attached to the EUT.

In the measurement of the 6dB bandwidth, the transmit frequency was set to low, middle, and high channels of operation.

Channel #	Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Margin
0	2402	607.8	>500	107.8
19	2440	607.8	>500	107.8
39	2480	607.8	>500	107.8

2402 MHz



2440 MHz



2480 MHz



3. Peak Output Power

Measurement Settings:

RBW: Greater than the worst case DTS occupied bandwidth

VBW: Equal to or greater than 3 times the RBW

Span: Equal to or greater than 3 times the RBW

Sweep time no faster than coupled (auto) time

Detector: Peak

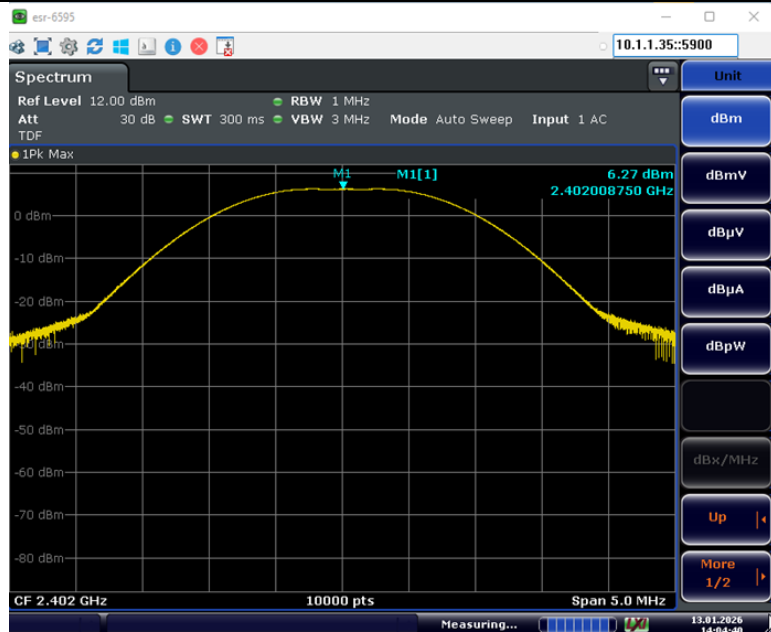
Peak Output Power Requirement: Per 15.247(b)(3) The maximum Peak Conducted Output Power of the intentional radiator shall not exceed the 1W (30dBm) for systems using digital modulation in the 2400-2483.5MHz

This measurement is a conducted measurement performed with the receiver per test method ANSI C63.10 section 11.9. Prior to measurement the EUT is placed into a continuous transmit mode via a communications board attached to the EUT.

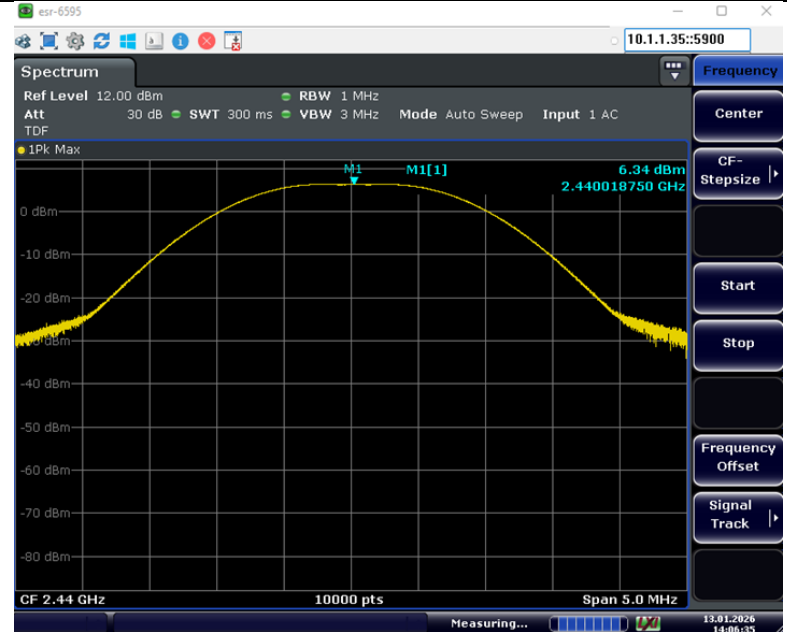
In the measurement of the Peak Output Power, the transmit frequency was set to low, middle, and high channels of operation.

Channel #	Frequency (MHz)	Power Output (dBm)	Limit (dBm)	Margin
0	2402	6.27	30	23.73
19	2440	6.34	30	23.66
39	2480	6.43	30	23.57

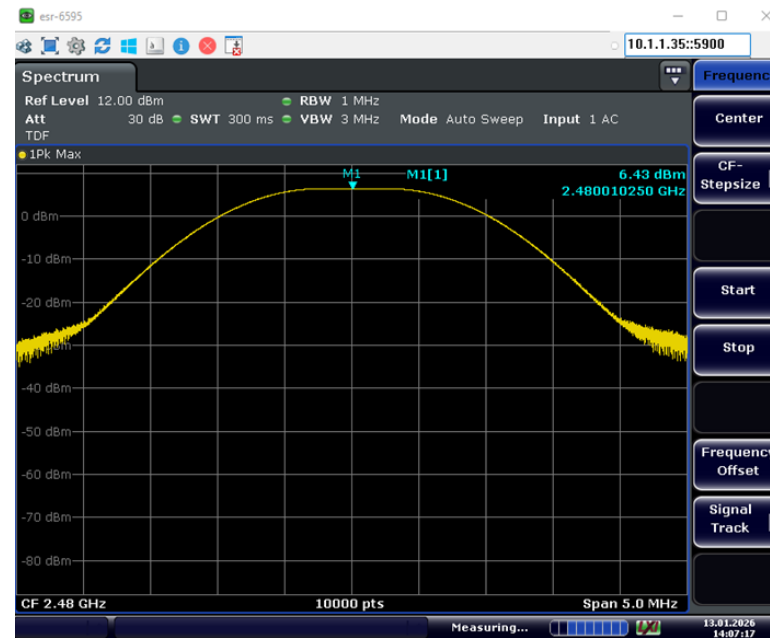
2402 MHz



2440 MHz



2480 MHz



4. Power Spectral Density

Measurement Settings:

Span: Greater than 1.5 times the DTS bandwidth

RBW: set to between 3kHz and 100kHz

VBW: Equal to or greater than 3 times the RBW

Sweep time: No faster than the coupled (auto) time

Detector: Peak

Trace mode: Max hold

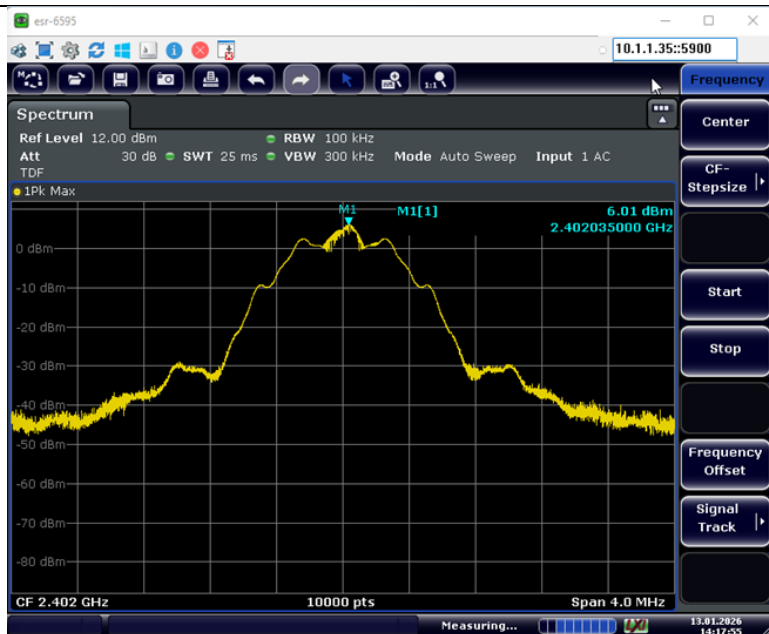
Power Spectral Density requirement: Per 15.247(e) for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. The same method of determining the conducted output power shall be used to determine the power spectral density.

This measurement is a conducted measurement performed with the receiver per test method ANSI C63.10 section 11.10. Prior to measurement the EUT is placed into a continuous transmit mode via communications board attached to the EUT.

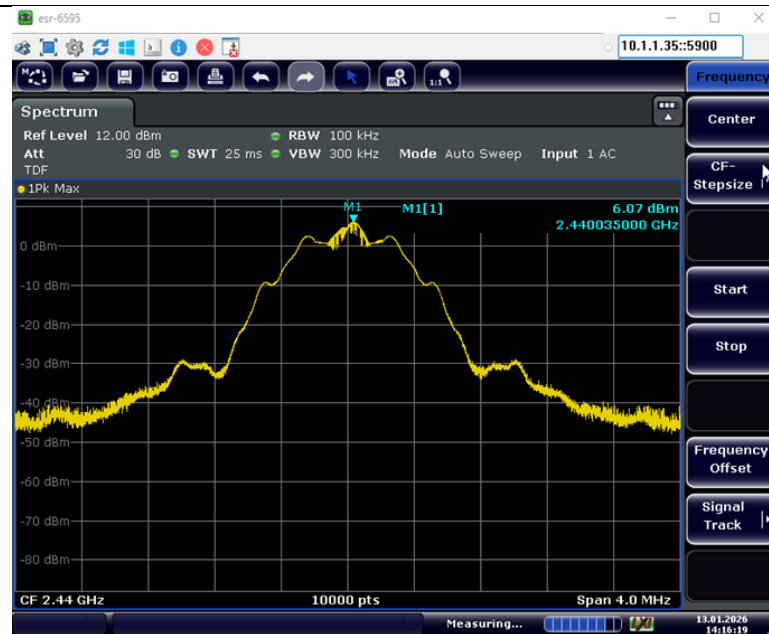
In the measurement of the power spectral density, the transmit frequency was set to low, middle, and high channels of operation.

Channel #	Frequency (MHz)	Measurement PPSP (dBm)	Limit (dBm)	Margin
0	2402	6.01	8	1.99
19	2440	6.07	8	1.93
39	2480	6.16	8	1.84

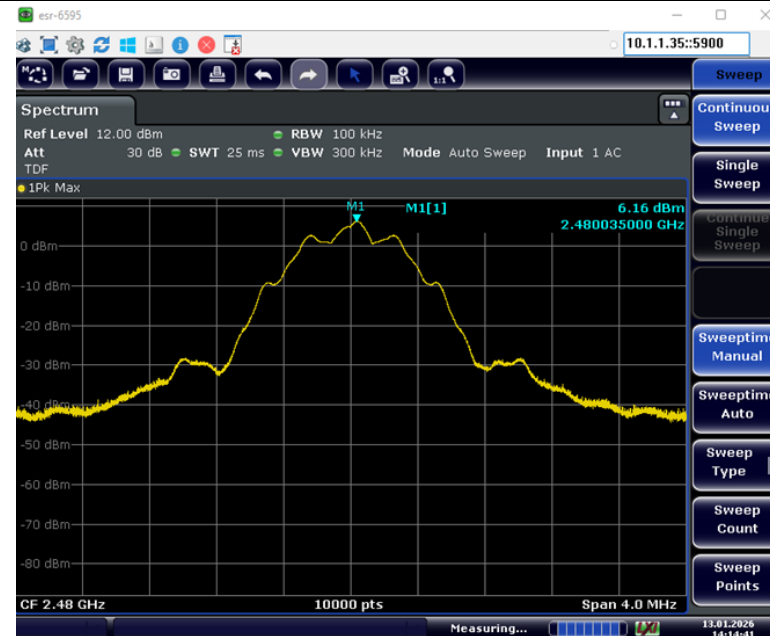
2402 MHz



2440MHz



2480 MHz



5. Conducted Emissions Sweep – 30MHz to 25GHz

Sweep 1: Peak - 100 kHz

Segment: 1

Start Frequency: 30 MHz

End Frequency: 1000 MHz

Band: Band 1

Detector: Peak

Sweep Mode: FFT

Attenuator: 5 dB

Pre-Amp: On

Max Hold Trace Mode: Off

Bandwidth Filter: EMI (6dB)

RBW: 100 kHz

Step Size: AUTO (25 kHz)

Dwell Time: 10ms

Notch Filter (2.4 - 2.5 GHz): Disabled

Notch Filter (5.725 - 5.875 GHz): Disabled

Sweep 1: Peak - 100 kHz

Segment: 2

Start Frequency: 1000 MHz

End Frequency: 4000 MHz

Band: Band 2

Detector: Peak

Sweep Mode: FFT

Attenuator: 10 dB

Pre-Amp: On

Max Hold Trace Mode: Off

Bandwidth Filter: EMI (6dB)

RBW: 100 kHz

Step Size: AUTO (25 kHz)

Dwell Time: 10ms

Notch Filter (2.4 - 2.5 GHz): Disabled

Notch Filter (5.725 - 5.875 GHz): Disabled

Sweep 1: Peak - 100 kHz

Segment: 3

Start Frequency: 4000 MHz

End Frequency: 18000 MHz

Band: Band 3

Detector: Peak

Sweep Mode: FFT

Attenuator: 5 dB

Pre-Amp: On

Max Hold Trace Mode: Off

Bandwidth Filter: EMI (6dB)

RBW: 100 kHz

Step Size: AUTO (25 kHz)

Dwell Time: 10ms

Notch Filter (2.4 - 2.5 GHz): Disabled

Notch Filter (5.725 - 5.875 GHz): Disabled

Sweep 1: Peak - 100 kHz

Segment: 4

Start Frequency: 18000 MHz

End Frequency: 26000 MHz

Band: Band 4

Detector: Peak

Sweep Mode: FFT

Attenuator: 5 dB

Pre-Amp: On

Max Hold Trace Mode: Off

Bandwidth Filter: EMI (6dB)

RBW: 100 kHz

Step Size: AUTO (25 kHz)

Dwell Time: 10ms

Notch Filter (2.4 - 2.5 GHz): Disabled

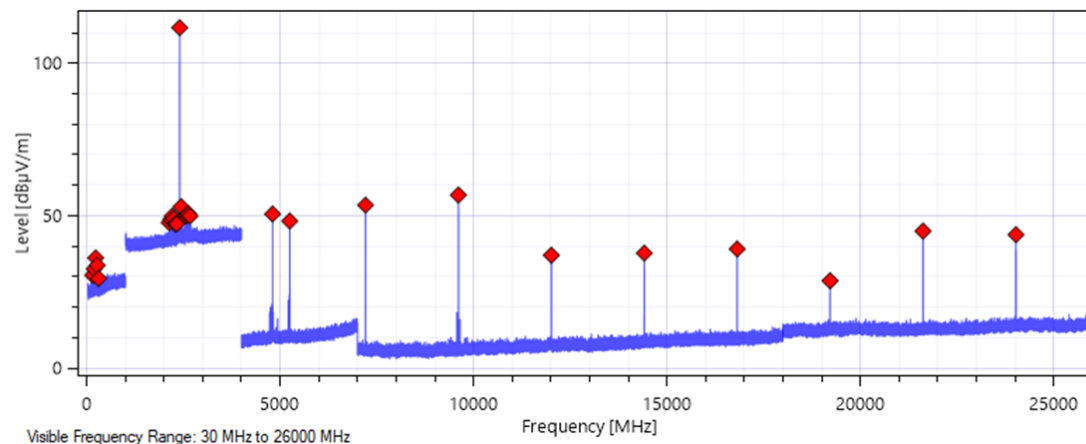
Notch Filter (5.725 - 5.875 GHz): Disabled

Per section 15.247(d), 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).

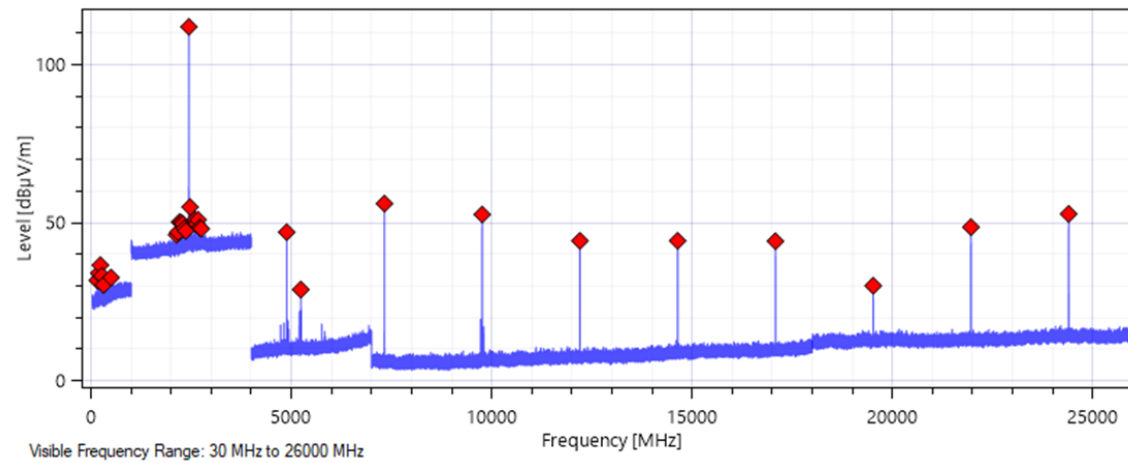
This measurement is a conducted measurement performed with a receiver. Prior to measurement the EUT is placed into a continuous transmit mode via a communications board attached to the EUT.

The band edge measurement was performed with the transmitter set separately at the low, mid, and high channel of operation. For each of the measurements the emissions were greater than 20dB below the peak of the signal.

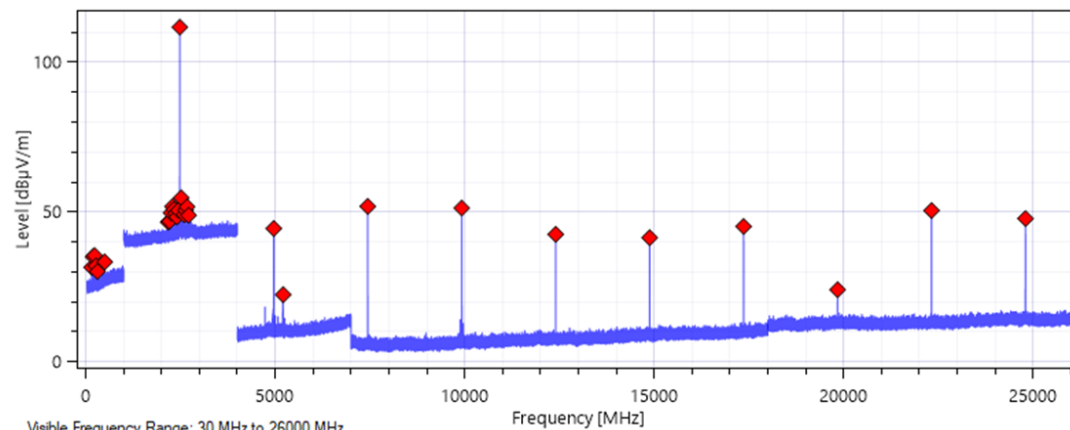
Channel	Worst-Case Delta (dB)	Limit (dB)	Margin
Low	54.85	20	34.9
Mid	55.936		35.9
High	56.972		37.0



Frequency (MHz)	Level (dBμV/m)
153.600000	30.548
192.000000	32.594
230.400000	36.217
268.800000	33.816
307.200000	29.46
2,402.050000	111.721
2,440.400000	53.013
19,216.275000	28.742
21,618.300000	45.009
24,020.325000	43.849
4,804.075000	50.637
5,247.500000	48.334
7,206.100000	53.534
9,608.125000	56.871
12,010.175000	37.104
14,412.200000	37.788
16,814.224999	39.145



Frequency (MHz)	Level (dBμV/m)
153.600000	31.817
192.000000	34.099
230.400000	36.603
268.800000	33.229
499.200000	32.709
2,440.050000	112.028
2,467.975000	55.013
2,593.650000	50.979
19,520.275000	30.108
21,960.300000	48.633
24,400.325000	52.829
4,880.075000	47.05
5,233.725000	28.876
7,320.100000	56.092
9,760.125000	52.629
12,200.175000	44.31
14,640.200000	44.329
17,080.224999	44.215



Frequency (MHz)	Level (dBμV/m)
153.600000	31.568
192.000000	35.069
230.400000	35.519
268.800000	32.044
307.200000	30.204
499.200000	33.392
2,480.050000	111.775
2,518.400000	54.803
19,840.275000	24.119
22,320.300000	50.538
24,800.325000	47.864
4,960.075000	44.551
5,208.625000	22.454
7,440.100000	51.932
9,920.125000	51.378
12,400.175000	42.59
14,880.200000	41.484
17,360.225000	45.225