

INSULET CORPORATION

TEST REPORT

SCOPE OF WORK

Emissions Testing – POD-OMNI-I1-6720

REPORT NUMBER

105948073BOX-001.FCC.Rev2

ISSUE DATE

December 19,2024

[REVISED DATE]

April 24, 2025

DOCUMENT CONTROL NUMBER

Non-Specific Radio Report Shell Rev. October 2022
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EMISSIONS REPORT (FULL COMPLIANCE)

Report Number: 105948073BOX-001.FCC.Rev2

Project Number: G105948073

Report Issue Date: December 19, 2024

Report Revision Date: April 24, 2025

Model(s) Tested: POD-OMNI-I1-6720

Model(s) Partially Tested: None

Model(s) Not Tested but declared equivalent by the client: None

Standards: CFR47 FCC Part 15 Subpart C, Section 15.247: 12/2024
CFR47 FCC Part 15 Subpart C, Section 15.209: 12/2024
CFR47 FCC Part 15 Subpart B, Section 15.109: 12/2024
RSS-247 Issue 3 August 2023
ISED ICES-003 Issue 7 October 2020
KDB 558074 D01 15.247 Meas Guidance v05r02: 04/2019
RSS-Gen Issue 5 April 2018 +Amendment 1 March 2019

Tested by:
Intertek Testing Services NA, Inc.
70 Codman Hill Road
Boxborough, MA 01719
USA

Client:
Insulet Corporation
100 Nagog Park
Acton, MA, 01720
USA

Report prepared by



Kouma Sinn / Senior Staff Engineer

Report reviewed by



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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	--
4	Description of Equipment Under Test and Variant Models	--
5	System Setup and Method	--
6	Maximum Peak Output CFR47 FCC Part 15 Subpart C, Section 15.247 (b)(3): 12/2024 RSS-247 Issue 3 August 2023	Pass
7	6 dB Bandwidth (DTS Bandwidth) and Occupied Bandwidth CFR47 FCC Part 15 Subpart C, Section 15.247 (a)(2): 12/2024 RSS-247 Issue 3 August 2023	Pass
8	Maximum Power Spectral Density CFR47 FCC Part 15 Subpart C, Section 15.247 (e): 12/2024 RSS-247 Issue 3 August 2023	Pass
9	Band Edge Compliance CFR47 FCC Part 15 Subpart C, Section 15.247 (d): 12/2024 RSS-247 Issue 3 August 2023	Pass
10	Transmitter spurious emissions CFR47 FCC Part 15 Subpart C, Section 15.247 (d): 12/2024 CFR47 FCC Part 15 Subpart C, Section 15.209: 12/2024 RSS-247 Issue 3 August 2023	Pass
11	Digital Device Radiated Spurious Emissions CFR47 FCC Part 15 Subpart B 15.109: 12/2024 ISED ICES-003 Issue 7 October 2020	Pass
---	AC Mains Conducted Emissions FCC 47CFR Part 15.107: 12/2024 ISED ICES-003 Issue 7 October 2020	N/A
12	Revision History	--

Notes: The EUT is battery powered.

3 Client Information

This EUT was tested at the request of:

Client: Insulet Corporation
100 Nagog Park
Acton, MA, 01720
USA

Contact: Rachel Zhang
Telephone: 978-600-7000
Email: rozhang@insulet.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: Insulet Corporation
100 Nagog Park
Acton, MA, 01720
USA

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Pod	Insulet Corporation	POD-OMNI-I1-6720	DUT11, DU16, DUT18, DUT19, DUT20, DUT10, DUT8, DUT6

Receive Date:	12/09/2024
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)
The EUT is the Insulin Delivery Pod

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
Internal battery	N/A	N/A	N/A

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Pre-programmed to transmit at low, mid, and high channels

Software used by the EUT:

No.	Descriptions of EUT Exercising
1	None

Radio/Receiver Characteristics	
Frequency Band(s)	2402-2480 MHz
Modulation Type(s)	GFSK
Maximum Conducted Output Power	1.25 dBm
Test Channels	Low (2402 MHz), Mid (2440 MHz), High (2480 MHz)
Occupied Bandwidth	1.071 MHz
DTS Bandwidth	746.300 kHz
Frequency Hopper: Number of Hopping Channels	N/A
Frequency Hopper: Channel Dwell Time	N/A
Frequency Hopper: Max interval between two instances of use of the same channel	N/A
MIMO Information (# of Transmit and Receive antenna ports)	N/A
Equipment Type	Standalone
Antenna Type and Gain	Integral Antenna with 1.10 dBi Gain

Variant Models:

The following variant models were not tested as part of this evaluation, but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

None

5 System Setup and Method

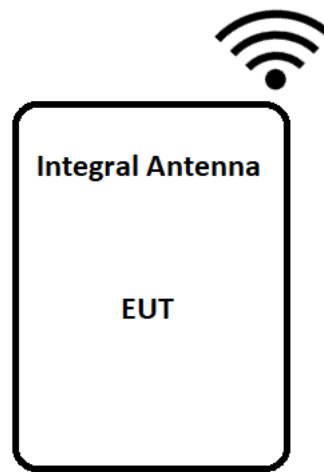
Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
--	None	N/A	N/A	N/A	N/A

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
None	N/A	N/A	N/A

5.1 Method:

Configuration as required by ANSI C63.10-2013, RSS-Gen Issue 5 April 2018, and KDB 558074 D01 15.247 Meas Guidance v05r02: 04/2019.

5.2 EUT Block Diagram:



6 Maximum Peak Output Power

6.1 Method

Tests are performed in accordance with CFR47 FCC Part 15.247, RSS-247, ANSI C63.10, and KDB 558074 D0115.247 Meas Guidancev05r02.

TEST SITE: 10m ALSE (Control Room)

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. A Styrofoam table 80 cm high is used for table-top equipment.

6.2 Limits:

Limits – FCC Part §15.247 (b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt or 30 dBm.

Notes: The limit for RSS-247 is the same as the FCC limits above.

6.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007"	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
WEI27"	10dB 50W DC 8.5 GHz Attenuator	Weinschel	24-10-34	BC9701	02/28/2024	02/28/2025
CBLHF2012-2M-1	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/27/2024	02/27/2025

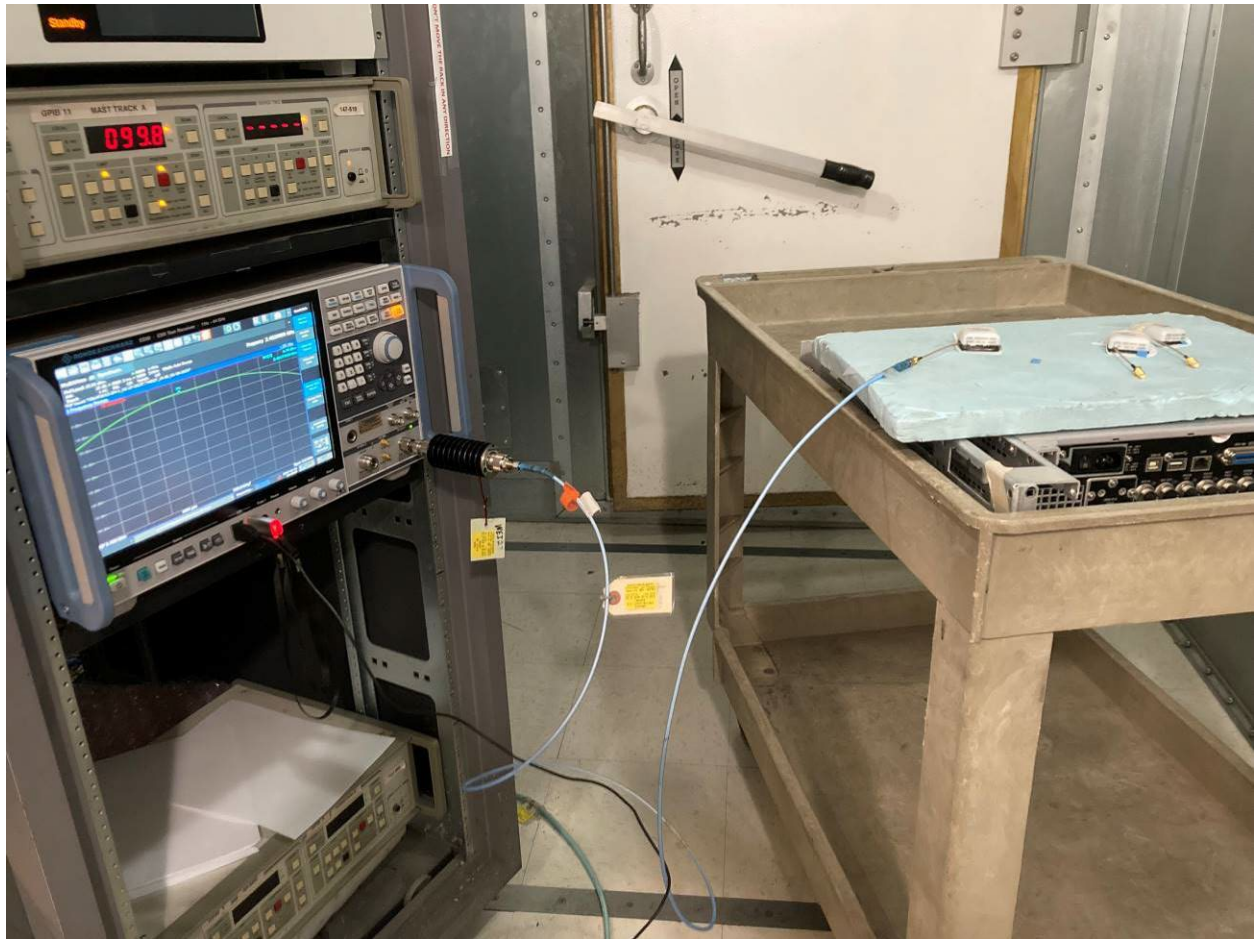
Software Utilized:

Name	Manufacturer	Version
None	N/A	N/A

6.4 Results:

The sample tested was found to Comply.

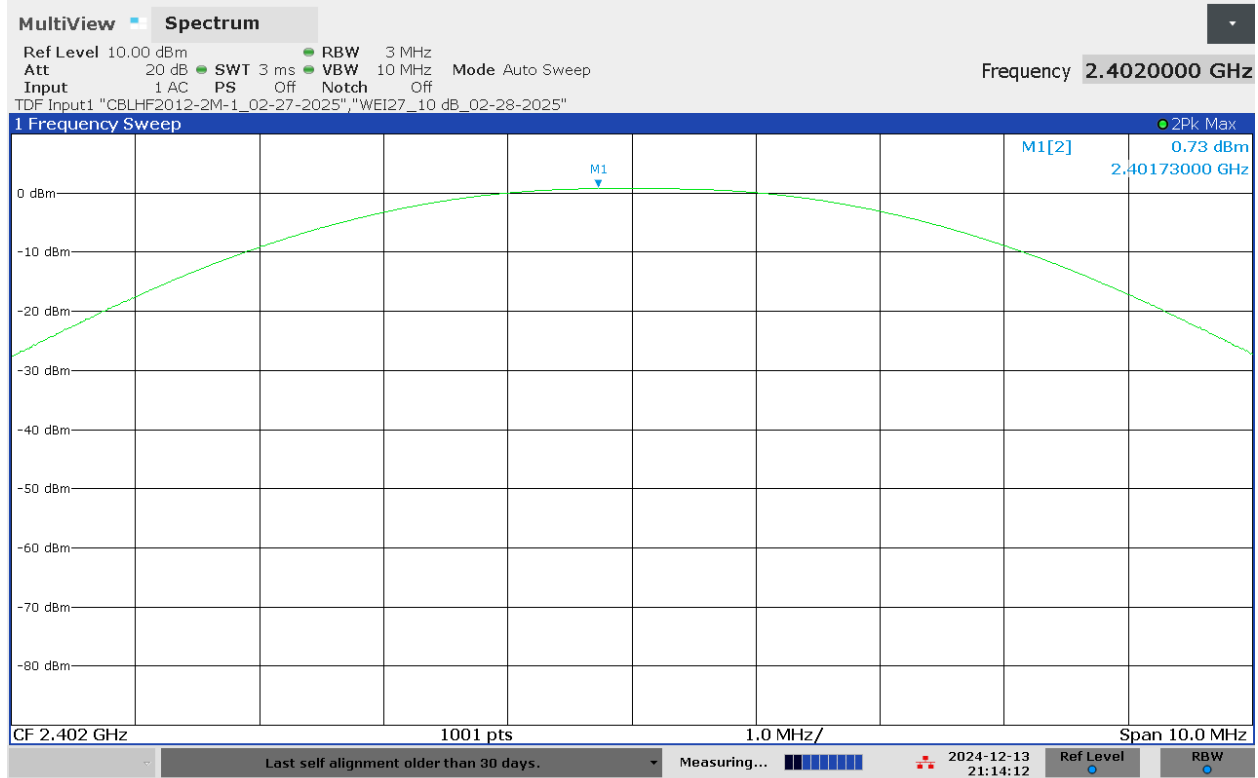
6.5 Setup Photograph:



6.6 Test Data:**Conducted Power**

Frequency (MHz)	Conducted Power (dBm)	Conducted Power Limit (dBm)	Results
2402	0.73	30	Compliance
2440	1.25	30	Compliance
2480	0.21	30	Compliance

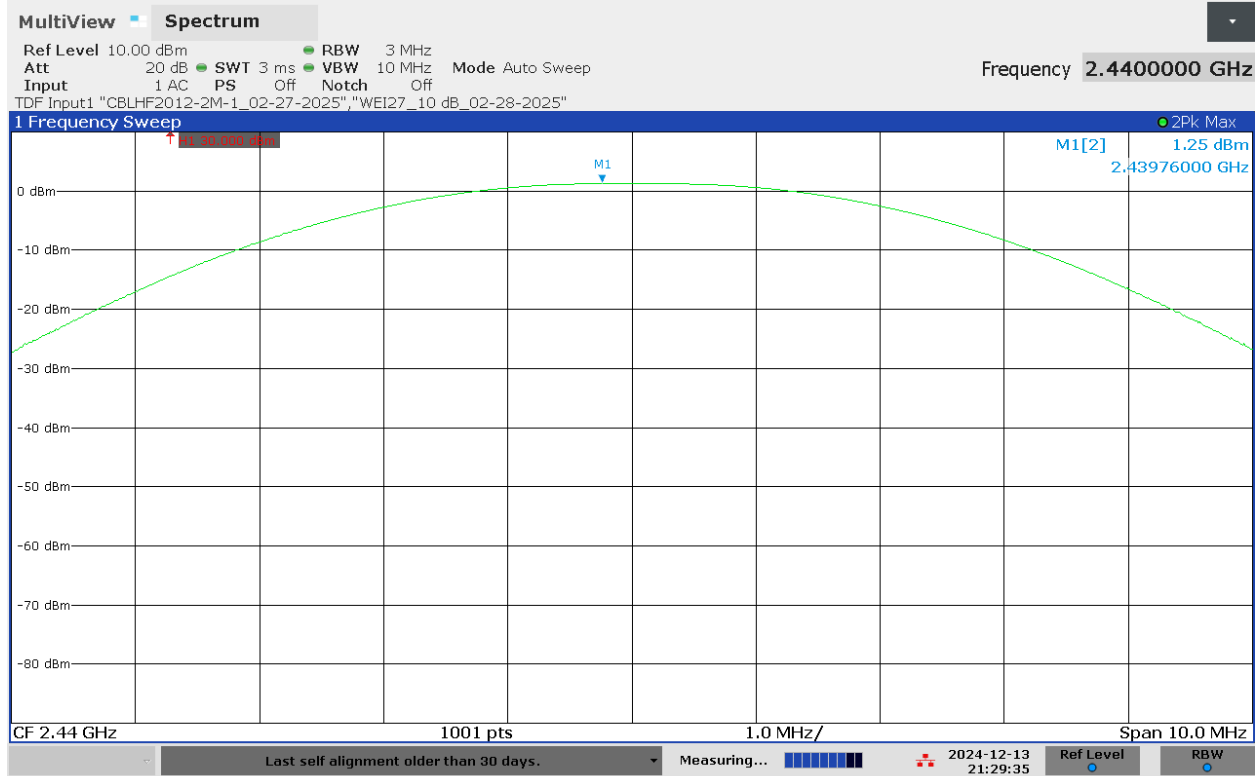
DUT10 Low Channel (2402 MHz) Conducted Power



09:14:13 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

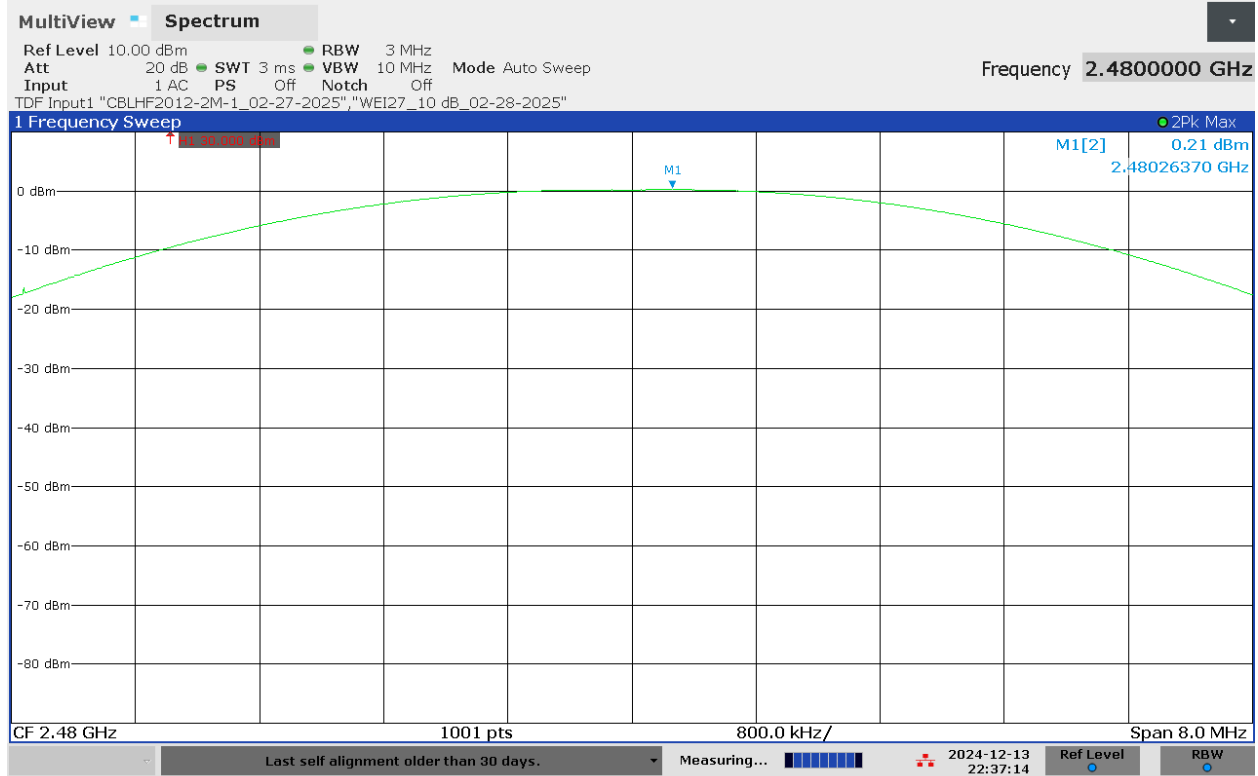
DUT8 Mid Channel (2440 MHz) Conducted Power



09:29:36 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

DUT6 High Channel (2480 MHz) Conducted Power



10:37:14 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

Product Standard: CFR47 FCC Part 15.247, RSS-247					Limit applied: See Report Section 6.2		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
12/13/2024	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	Internal battery	Continuous transmitting	24	18	1028

Deviations, Additions, or Exclusions: None

7 6 dB Bandwidth (DTS Bandwidth) and Occupied Bandwidth

7.1 Method

Tests are performed in accordance with CFR47 FCC Part 15.247, RSS-247, and ANSI C63.10.

TEST SITE: 10m ALSE (Control Room)

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. A Styrofoam table 80 cm high is used for table-top equipment.

7.2 Limit

DTS Bandwidth Limit:

FCC Part §15.247 (a) (2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Occupied Bandwidth:

Upper and Lower Edges of OBW within 2400-2483.5 MHz

Notes: The limits for RSS-247 are the same as the FCC limits above.

7.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007"	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014"	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
WEI27"	10dB 50W DC 8.5 GHz Attenuator	Weinschel	24-10-34	BC9701	02/28/2024	02/28/2025
CBLHF2012-2M-1	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/27/2024	02/27/2025

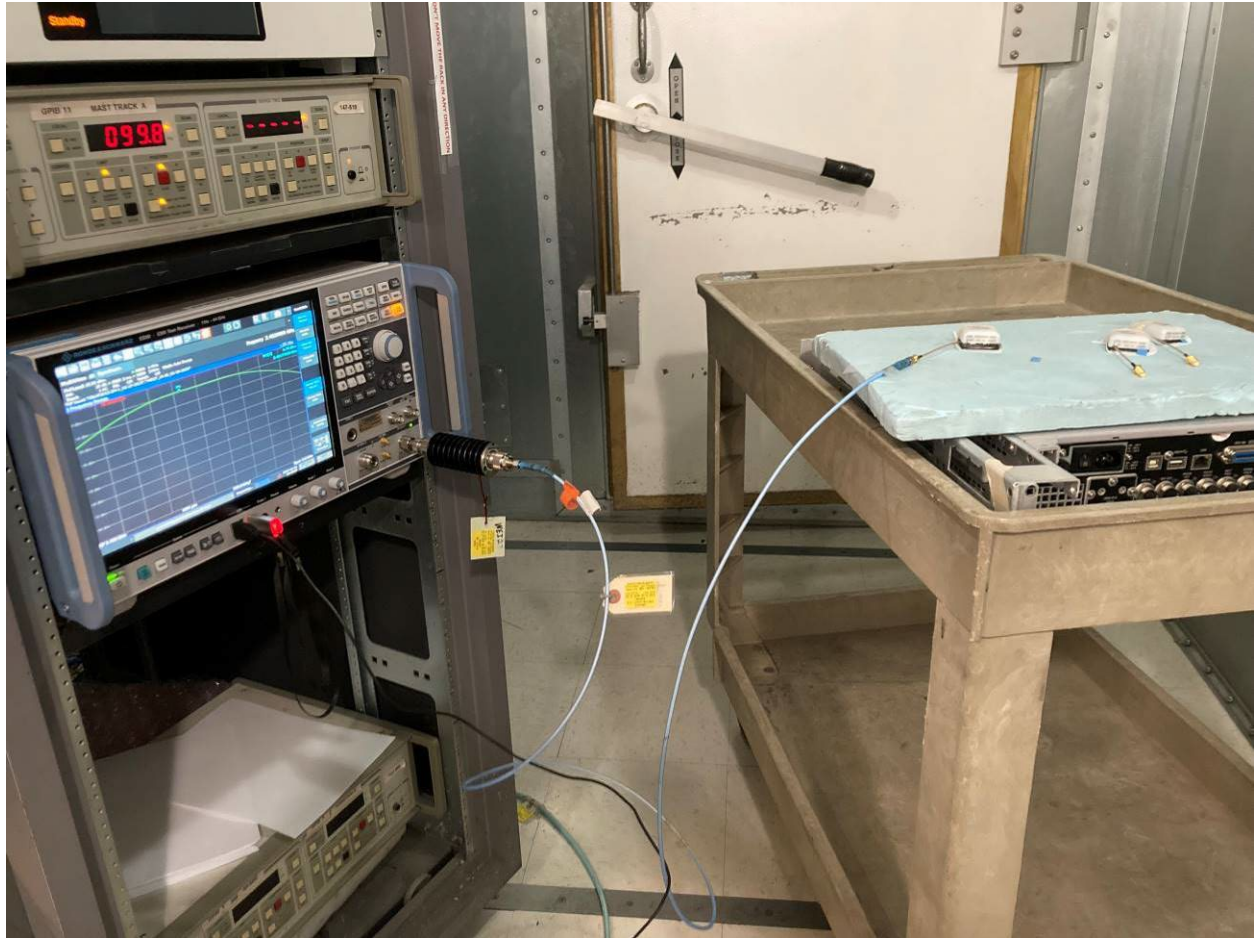
Software Utilized:

Name	Manufacturer	Version
None	N/A	N/A

7.4 Results:

The sample tested was found to Comply.

7.5 Setup Photographs:



7.6 Test Data:

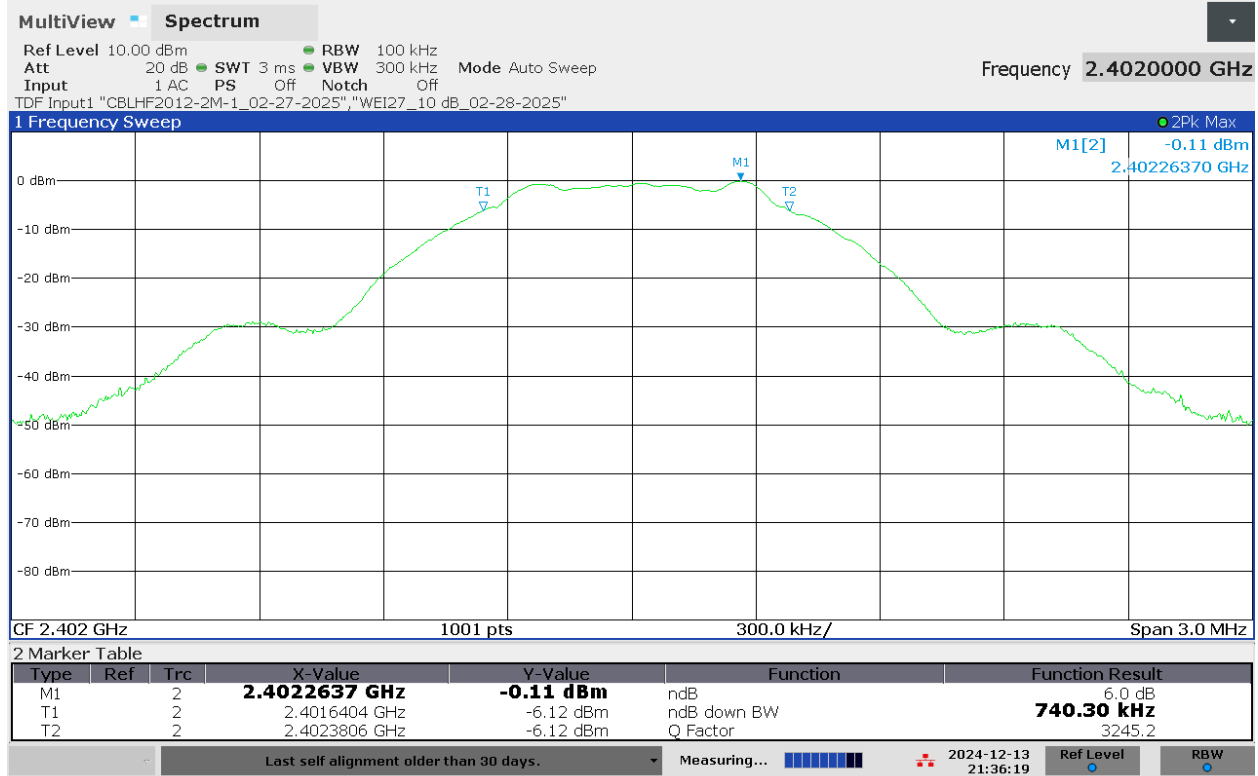
DTS Bandwidth

Frequency (MHz)	DTS Bandwidth (6 dB Bandwidth) (kHz)	DTS Bandwidth Limit (kHz)	Results
2402	740.300	≥ 500	Compliance
2440	746.300	≥ 500	Compliance
2480	740.300	≥ 500	Compliance

Occupied Bandwidth

Frequency (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth Limit (MHz)	Results
2402	1.066	Within 2400-2483.5	Compliance
2440	1.071	Within 2400-2483.5	Compliance
2480	1.057	Within 2400-2483.5	Compliance

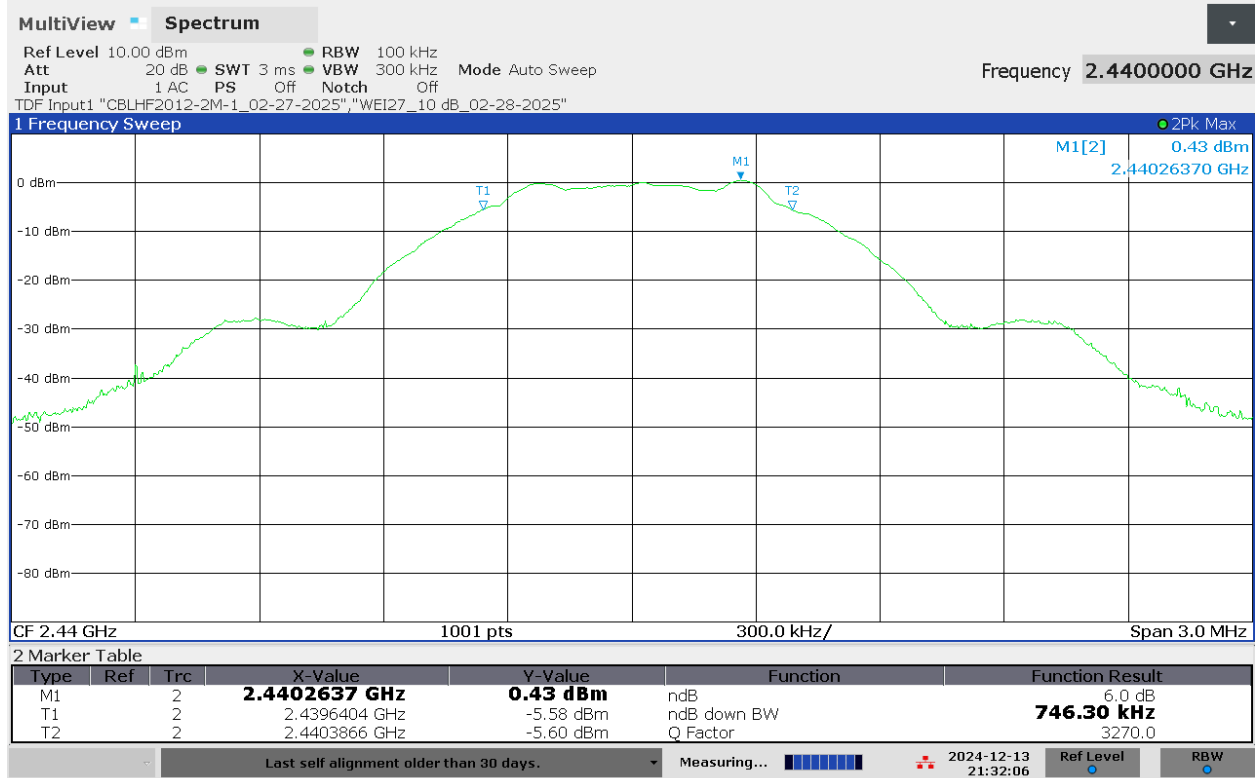
Low Channel (2402 MHz) DTS Bandwidth



09:36:19 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

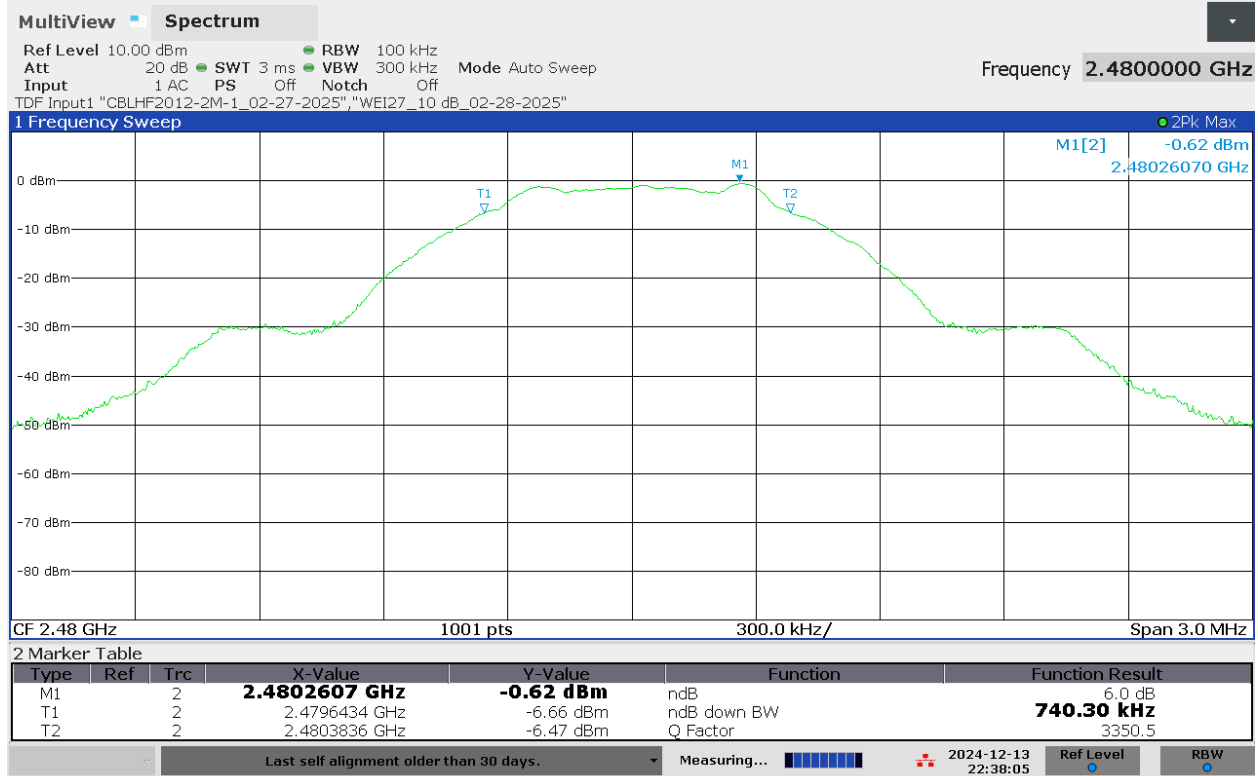
Mid Channel (2440 MHz) DTS Bandwidth



09:32:06 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

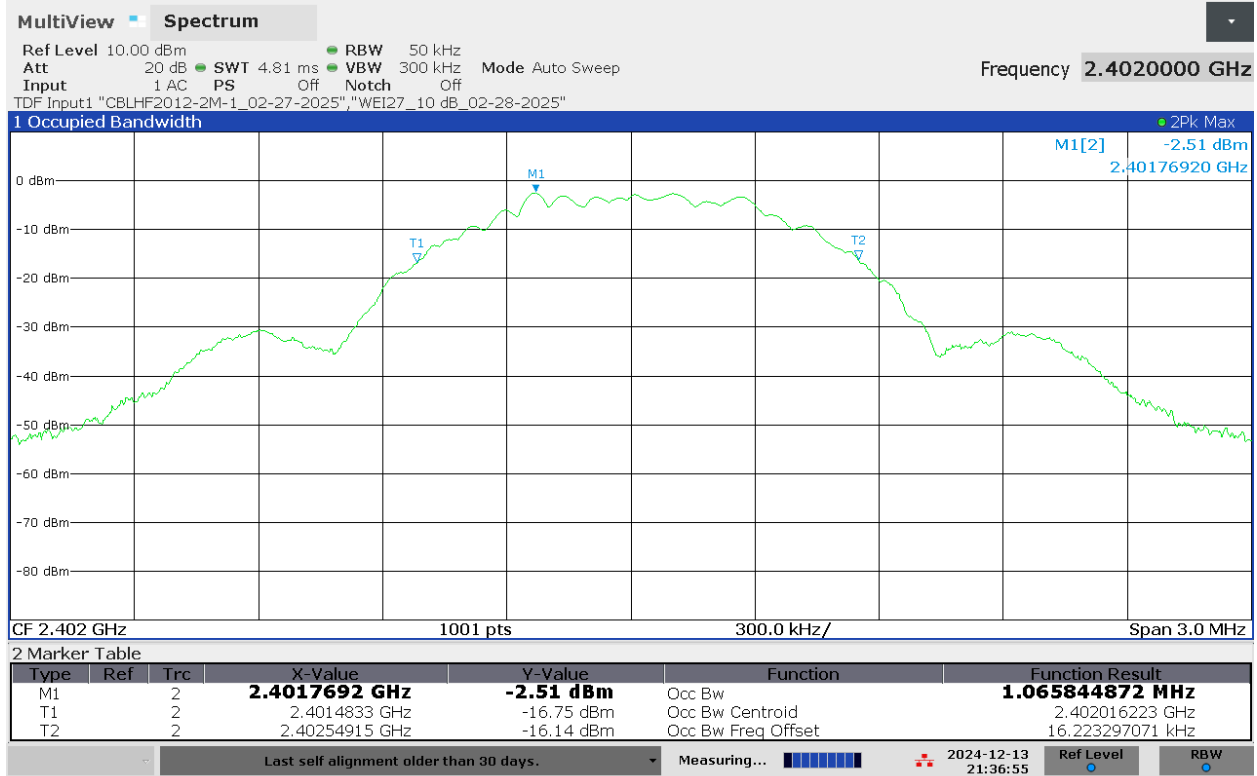
High Channel (2480 MHz) DTS Bandwidth



10:38:05 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

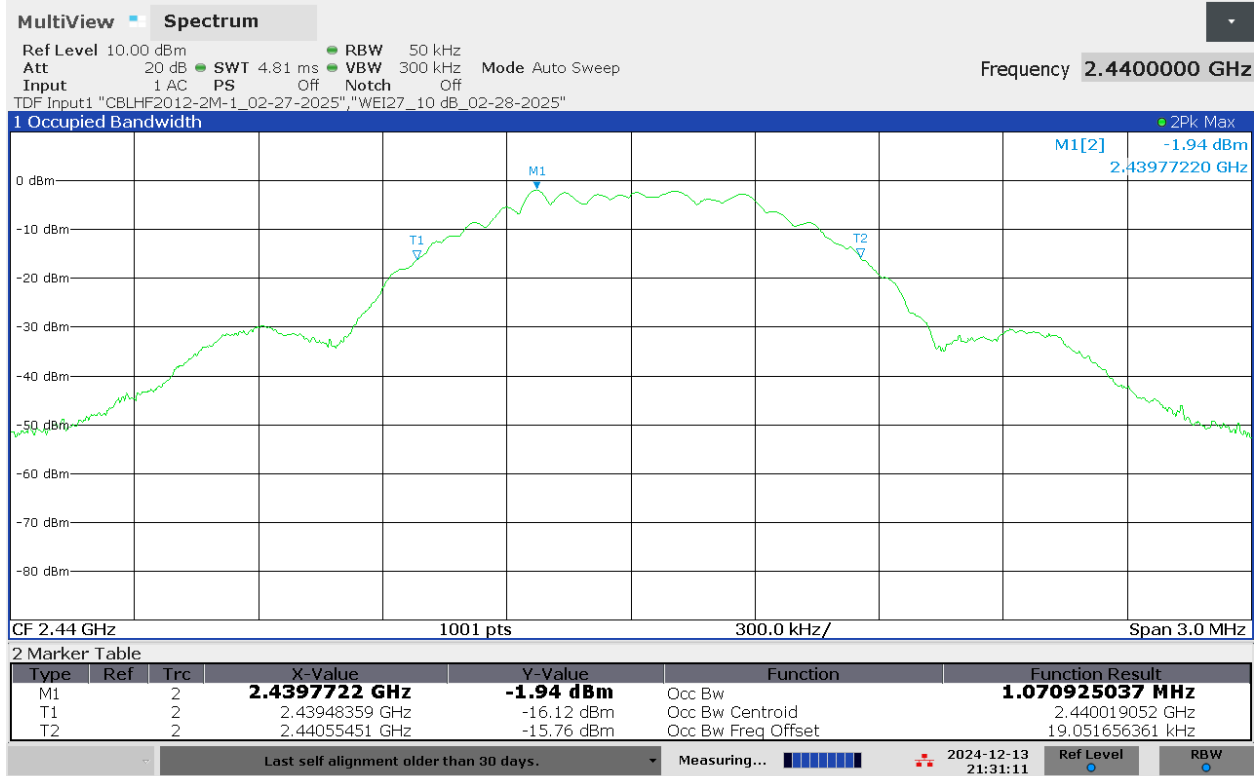
Low Channel (2402 MHz) Occupied Bandwidth



09:36:55 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

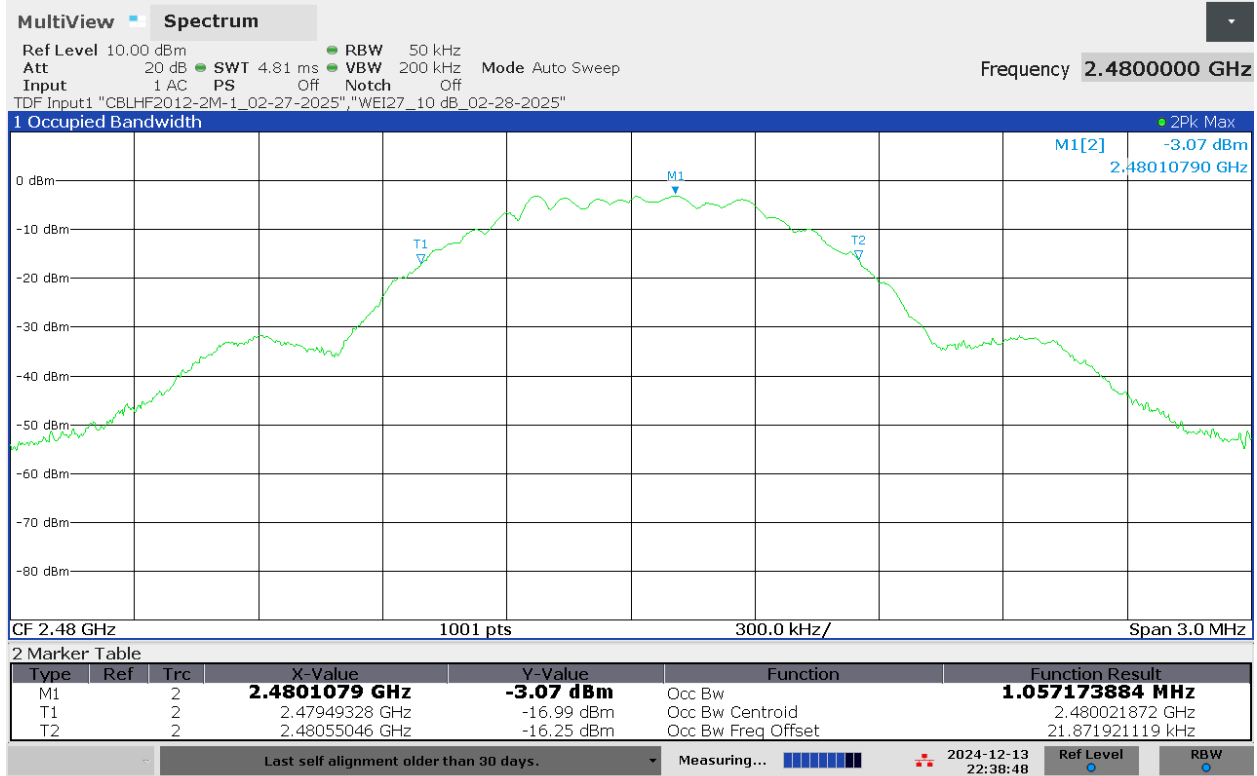
Mid Channel (2440 MHz) Occupied Bandwidth



09:31:12 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

High Channel (2480 MHz) Occupied Bandwidth



10:38:48 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

Product Standard: CFR47 FCC Part 15.247, RSS-247					Limit applied: See Report Section 7.2		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
12/13/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	24	18	1028

Deviations, Additions, or Exclusions: None

8 Maximum Power Spectral Density

8.1 Method

Tests are performed in accordance with CFR47 FCC Part 15.247, RSS-247, and ANSI C63.10, and KDB 558074 D0115.247Meas Guidancev05r02.

TEST SITE: 10m ALSE (Control Room)

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. A Styrofoam table 80 cm high is used for table-top equipment.

8.2 Limit

§15.247 (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Notes: The limits for RSS-247 are the same as the FCC limits above.

8.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007"	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
WEI27"	10dB 50W DC 8.5 GHz Attenuator	Weinschel	24-10-34	BC9701	02/28/2024	02/28/2025
CBLHF2012-2M-1	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/27/2024	02/27/2025

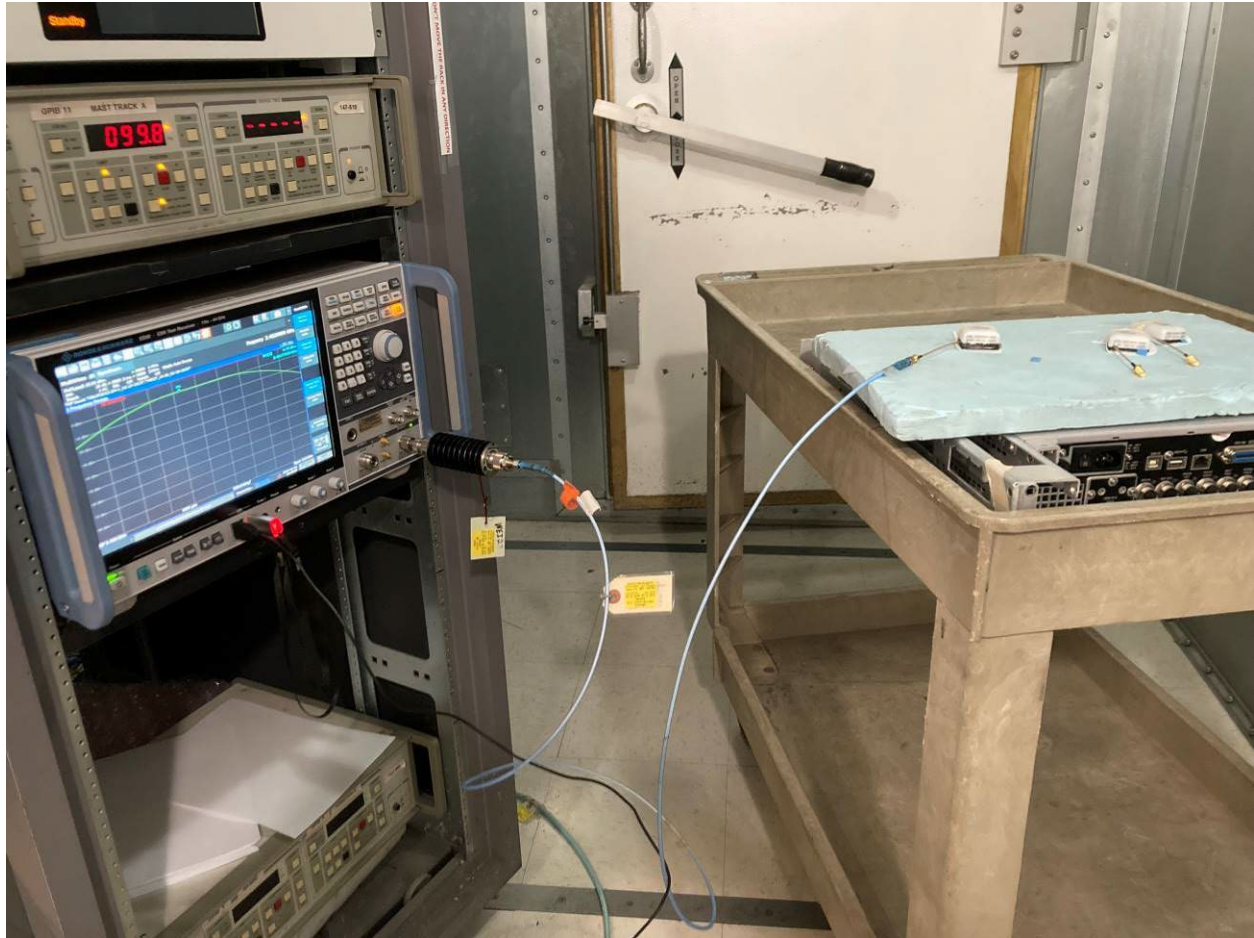
Software Utilized:

Name	Manufacturer	Version
None	N/A	N/A

8.4 Results:

The sample tested was found to Comply.

8.5 Setup Photograph:

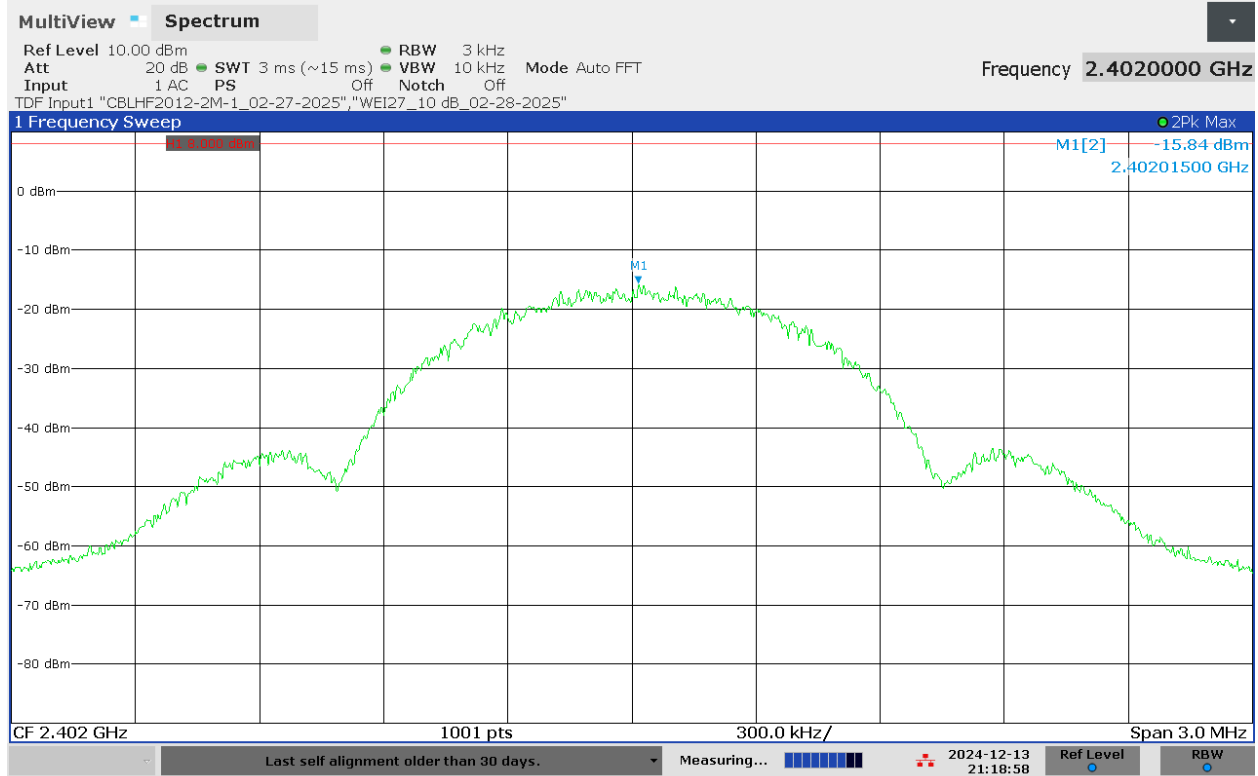


8.6 Test Data:

Peak Power Spectral Density

Frequency (MHz)	Peak Power Spectral Density (dBm)	Limit (dBm)	Result
2402	-15.84	8	Compliance
2440	-15.27	8	Compliance
2480	-16.37	8	Compliance

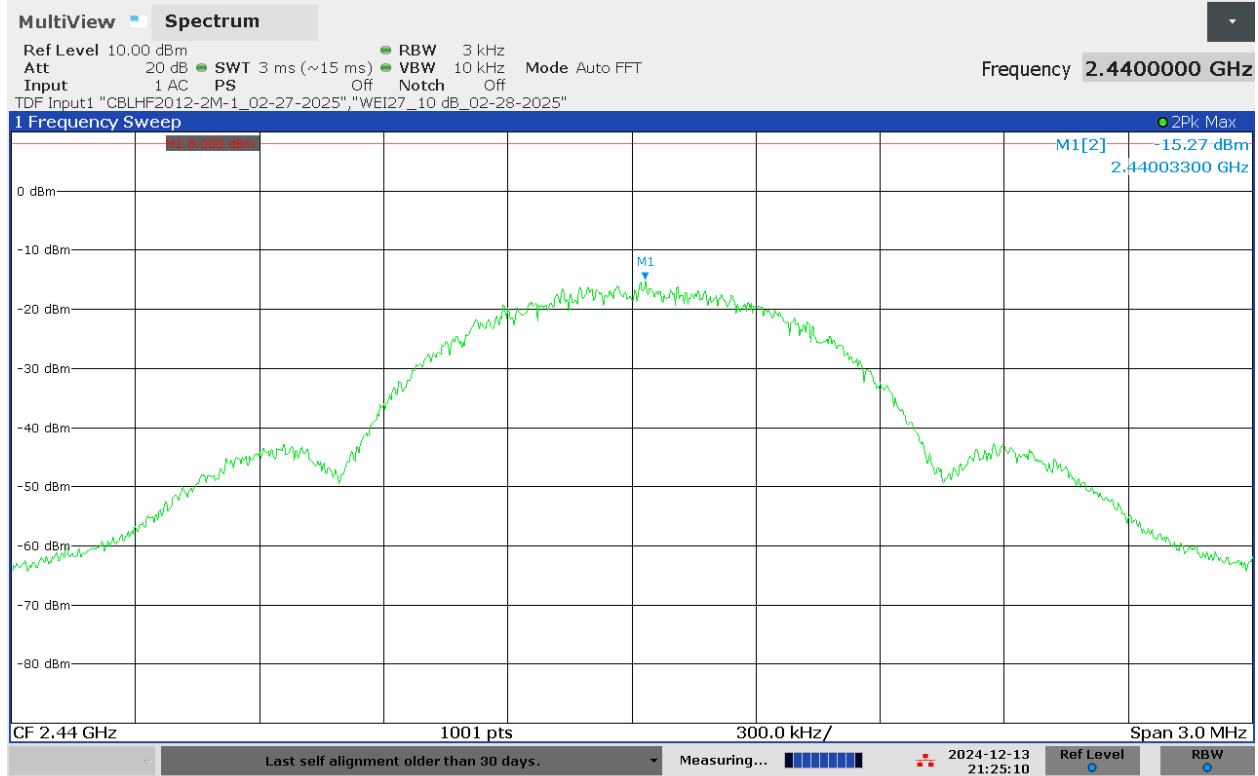
Low Channel (2402 MHz) Peak Power Spectral Density



09:18:58 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

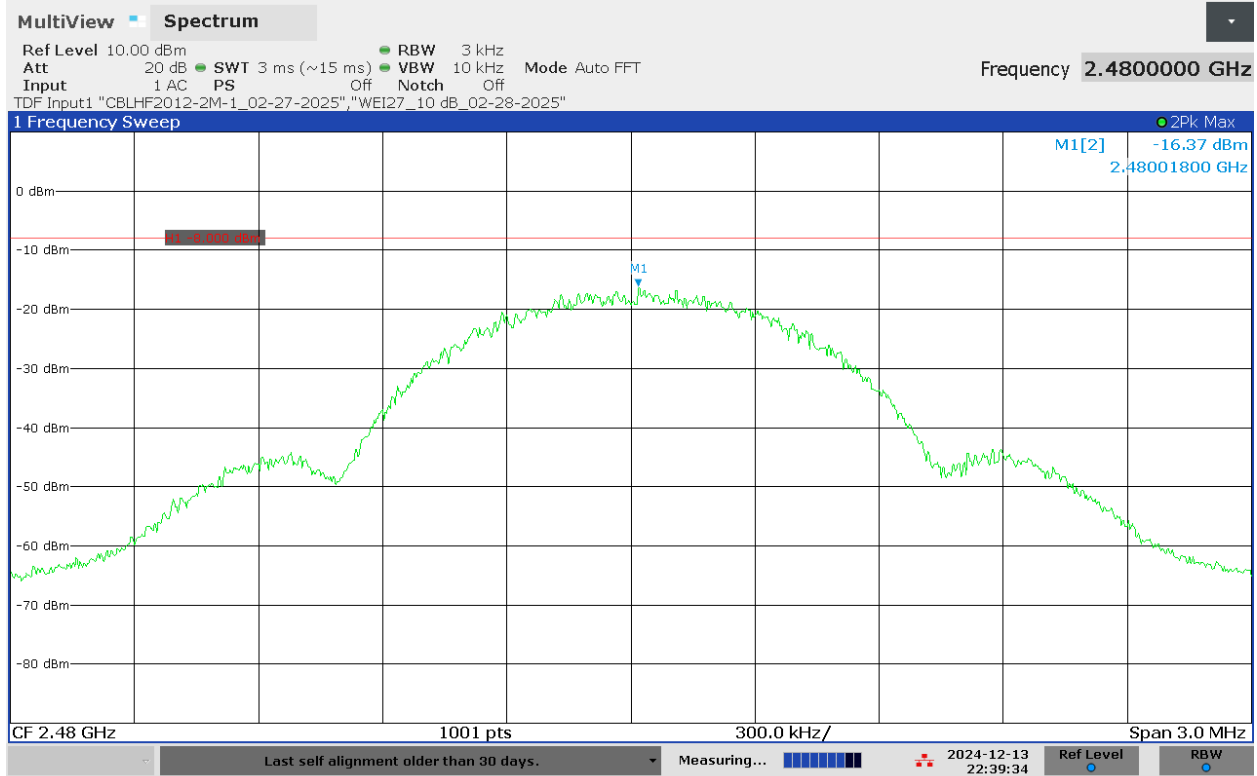
Mid Channel (2440 MHz) Peak Power Spectral Density



09:25:11 PM 12/13/2024

Notes: Cable loss and attenuator factors were compensated internally as TDF.

High Channel (2480 MHz) Peak Power Spectral Density



10:39:34 PM 12/13/2024

Product Standard: CFR47 FCC Part 15.247, RSS-247					Limit applied: See Report Section 8.2		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
12/13/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	24	18	1028

Deviations, Additions, or Exclusions: None

9 Band Edge Compliance

9.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C 15.247, RSS 247, and ANSI C 63.10.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

9.2 Limit

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) (see §15.205(c))

Notes: The limits for RSS-247 are the same as the FCC limits above.

9.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
145-414	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/15/2024	07/15/2025
145-422	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	03/26/2024	03/26/2025
IW003	8.4 meter cable	Insulated Wire	2800-NPS	003	01/17/2024	01/17/2025
ETS002	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/04/2024	09/04/2025

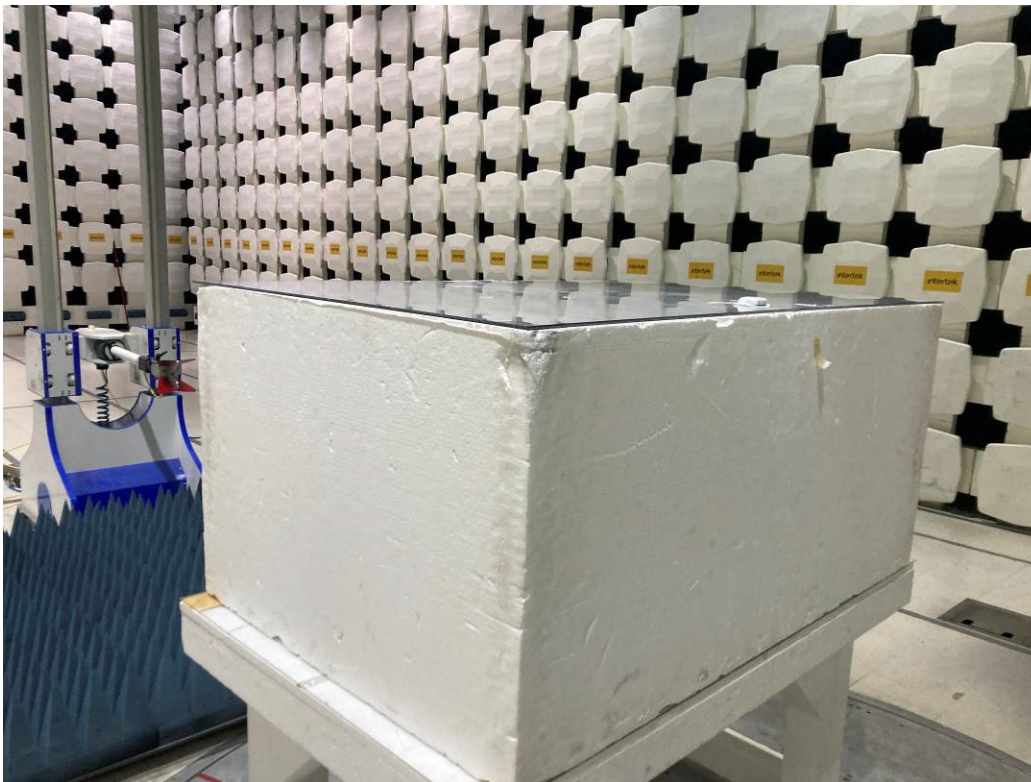
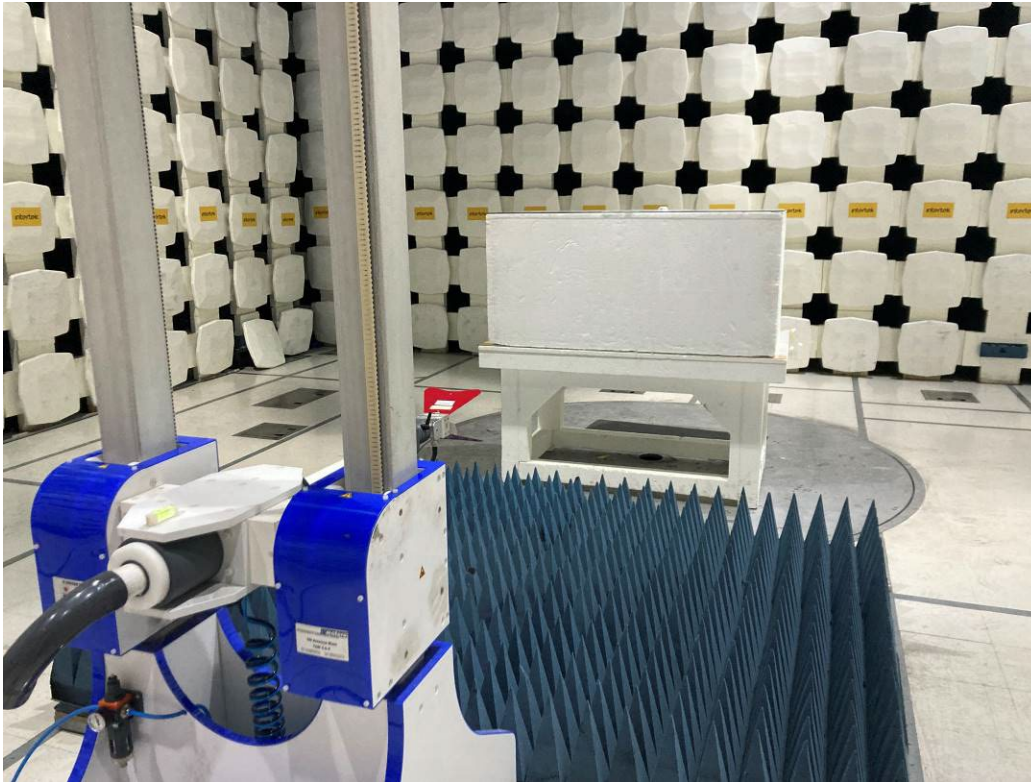
Software Utilized:

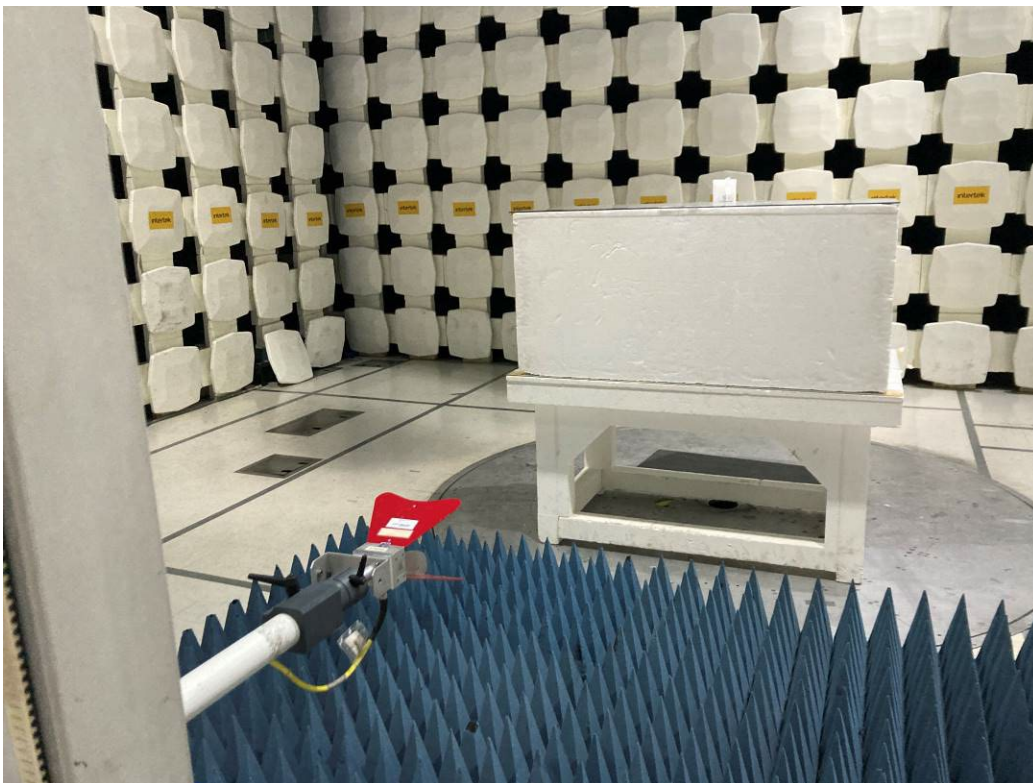
Name	Manufacturer	Version
None	N/A	N/A

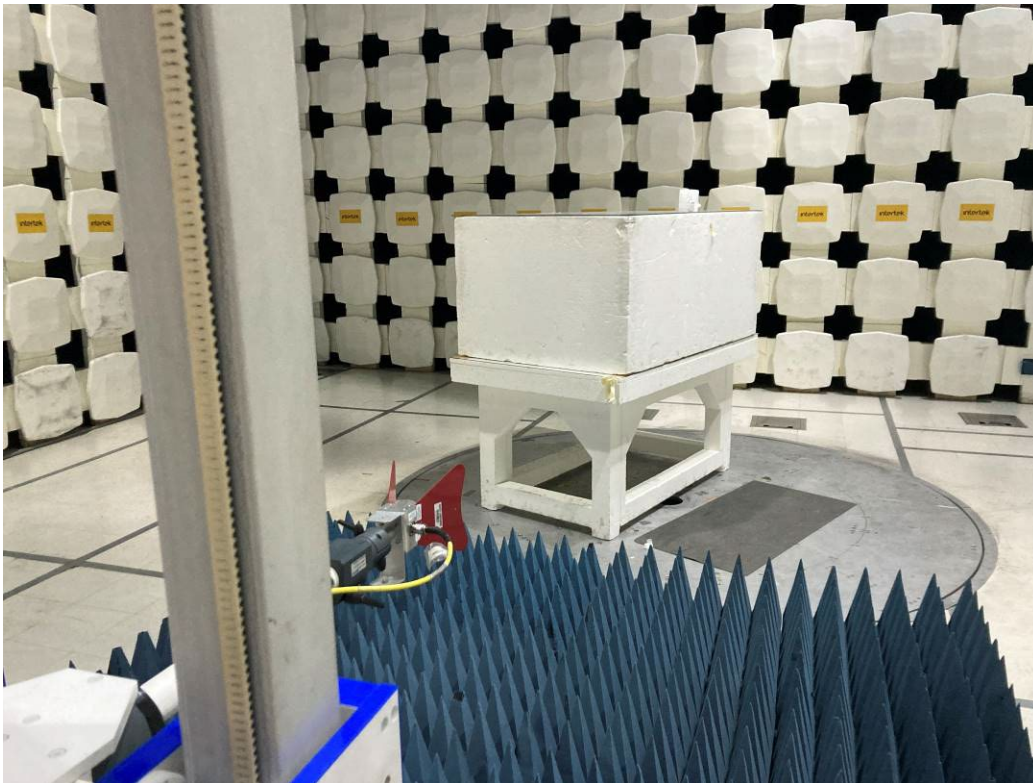
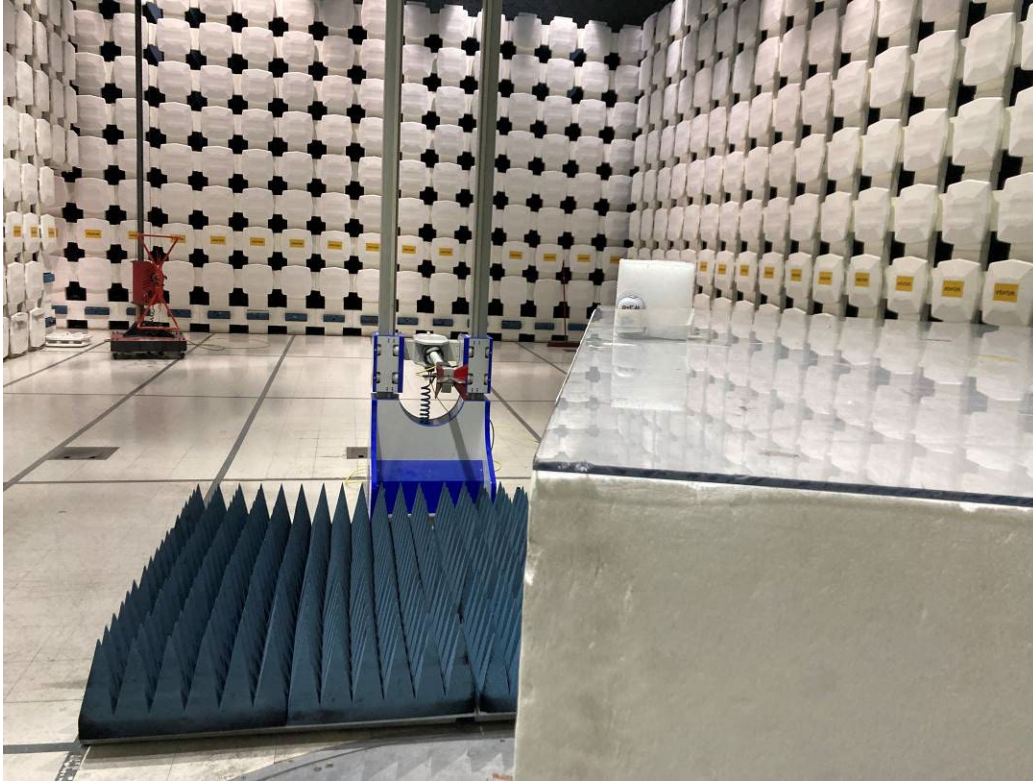
9.4 Results:

The sample tested was found to Comply.

9.5 Setup Photographs:

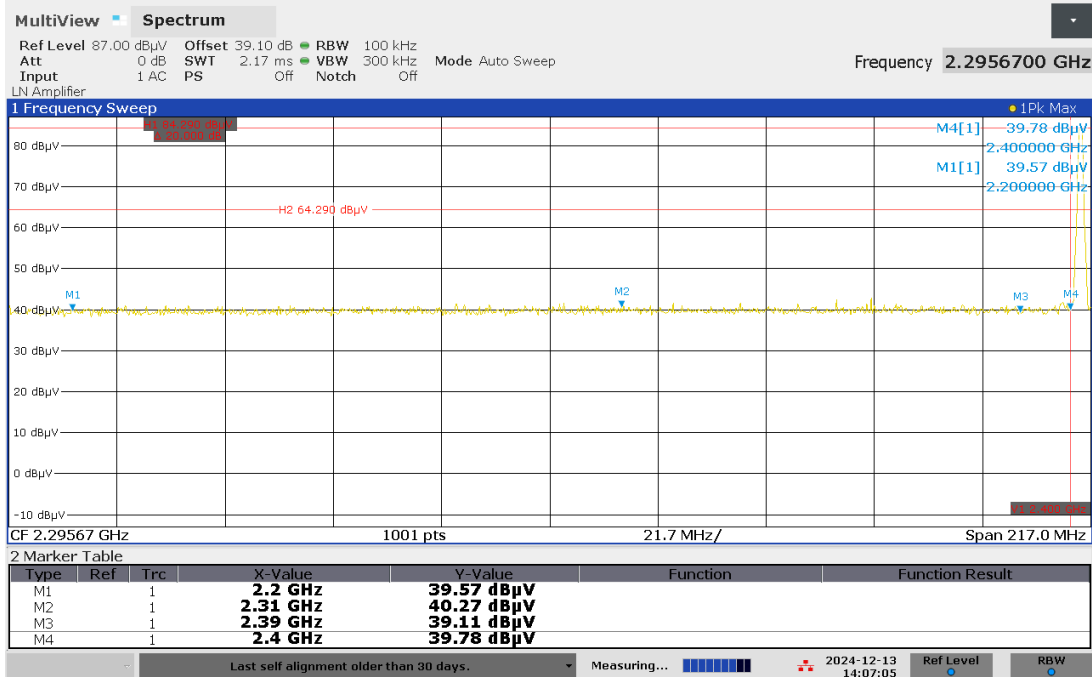






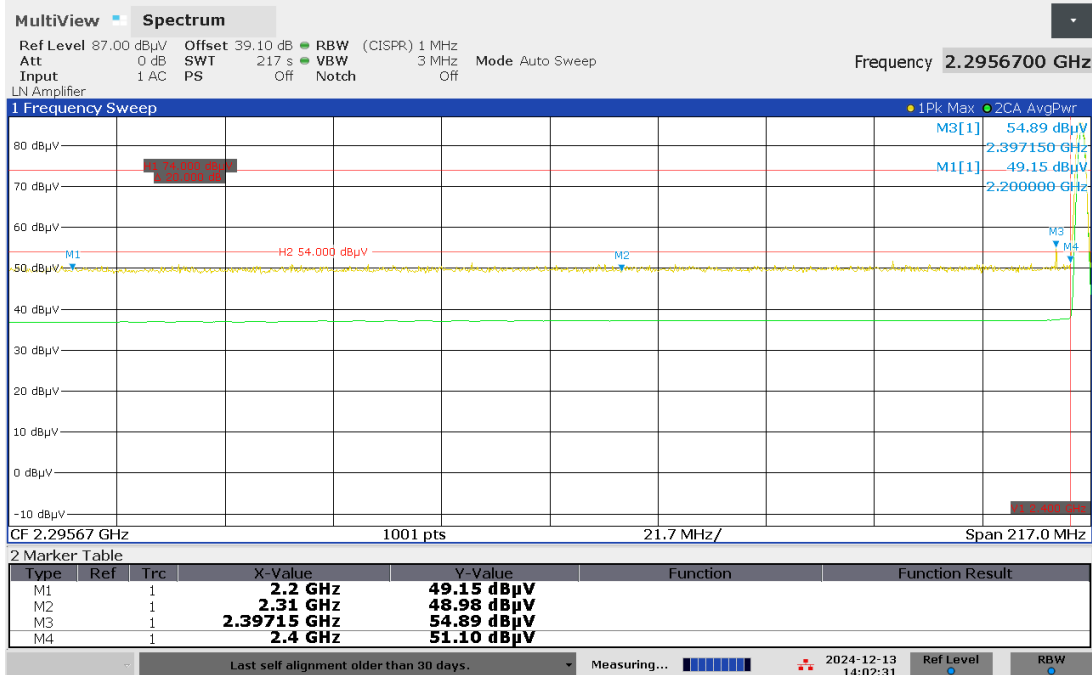
9.6 Test Data:

Lower Edge, 100 kHz RBW, 20 dBc Limit, Back Side_Horizontal_Worst-case [DUT16]



02:07:05 PM 12/13/2024

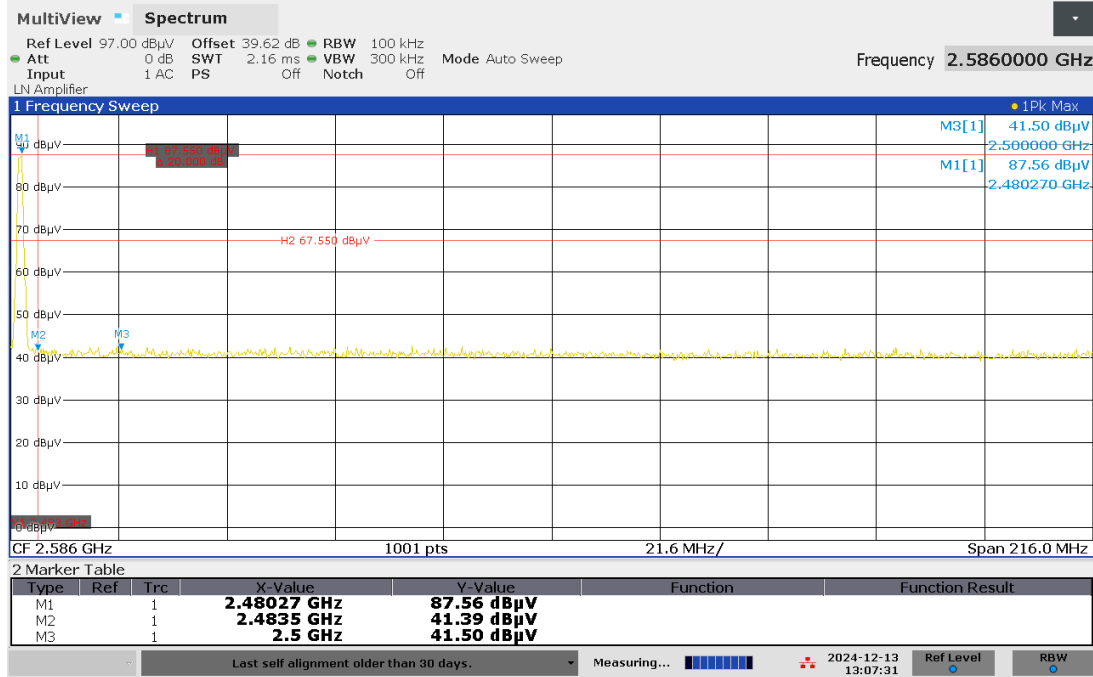
Lower Edge, 1MHz RBW, Restricted Band Limit, Back Side_Horizontal_Worst-case [DUT16]



02:02:31 PM 12/13/2024

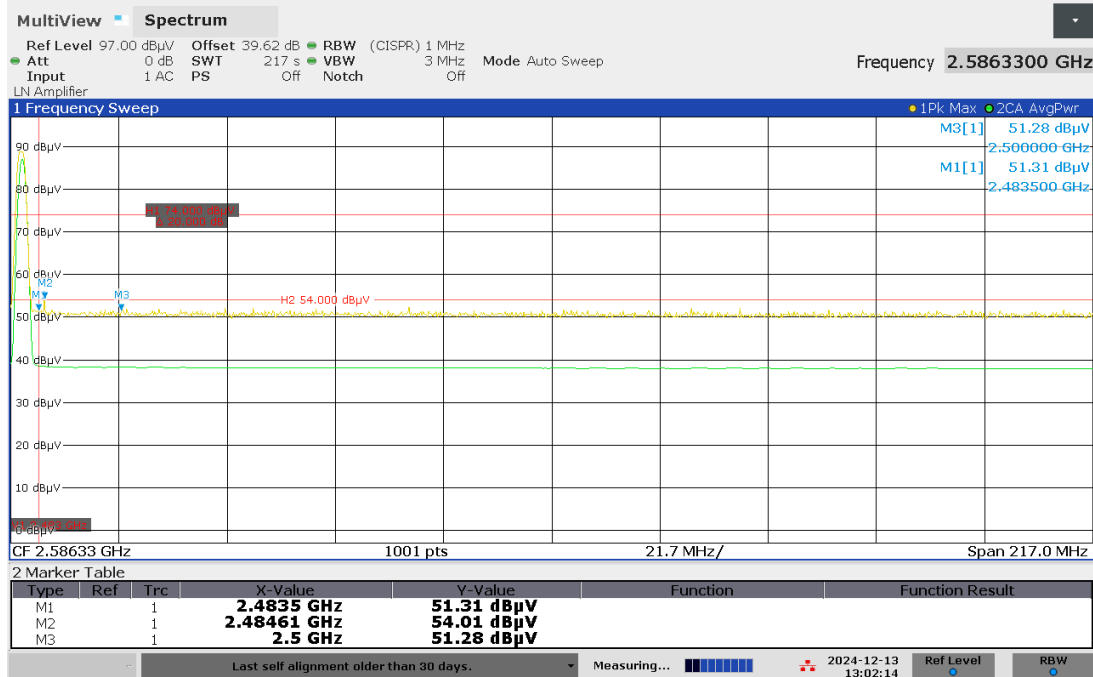
Notes: Antenna factor and cable loss were compensated internally as Offset.

Upper Edge, 100 kHz RBW, 20 dBc Limit, Long Side_Horizontal_Worst-case [DUT20]



01:07:32 PM 12/13/2024

Upper Edge, 1MHz RBW, Restricted Limit, Back Side_Horizontal_Worst-case [DUT20]



01:02:15 PM 12/13/2024

Notes: Antenna factor and cable loss were compensated internally as dB Off-set.

Intertek

Report Number: 105948073BOX-001.FCC.Rev2

Issued: 12/19/2024
Revised: 04/24/2025

Product Standard: CFR47 FCC Part 15.247, RSS-247				Limit applied: See Report Section 9.2			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
12/13/2024	Kouma Sinn <i>KPS</i>	Vathana Ven <i>VSV</i>	Internal battery	Continuous transmitting	24	19	1025

Deviations, Additions, or Exclusions: None

10 Transmitter spurious emissions

10.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C 15.247, FCC Part 15 Subpart B, RSS 247, ISSED ICES 003, ANSI C 63.10, and ANSI C 63.4.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisprr
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This

value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V

AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μ V
NF = Net Reading in dB μ V

Example:

FS = RA + AF + CF – AG = 52.0 + 7.4 + 1.6 – 29.0 = 32.0

UF = $10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$

Alternately, when BAT-EMC Emission Software is used, the “Level” includes all losses and gains and is compared directly in the “Margin” column to the “Limit”. The “Correction” includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the “Level” column.

10.2 Limits

Limits – FCC Part §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) (see §15.205(c))

Limits – FCC Part §15.209 (a) The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100	3
88–216	150	3
216–960	200	3
Above 960	500	3

Notes: The limits for RSS-247 are the same as the FCC limits above.

10.3 Test Equipment Used:

Test equipment used from 9 kHz-30 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/15/2024	07/15/2025
145-422'	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	03/26/2024	03/26/2025
IW003'	8.4 meter cable	Insulated Wire	2800-NPS	003	01/17/2024	01/17/2025
ETS003'	9kHz-30MHz Active Loop Antenna	ETS Lindgren	6502	00143396	01/25/2024	01/25/2025
CBL054'	BNC cable 7.62 meters	MookEERF	RG58U	cbi054	01/12/2024	01/12/2025

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	02/27/2024	02/27/2025
IW006'	DC-18GHz cable 8.4m long	Insulated Wire	2800-NPS	IW006	05/23/2024	05/23/2025
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/30/2024	01/30/2025
145145'	Broadband Hybrid Antenna 30 MHz - 3 GHz	Sunol Sciences Corp.	JB3	A122313	07/11/2024	07/11/2025
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	02/27/2024	02/27/2025

Test equipment used from 1-3 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/15/2024	07/15/2025
145-422'	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	03/26/2024	03/26/2025
IW003'	8.4 meter cable	Insulated Wire	2800-NPS	003	01/17/2024	01/17/2025
ETS002	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/04/2024	09/04/2025
BONN001	1-18GHz low noise pre-amp	Bonn	BLMA 0118-M	1811749	07/24/2024	07/24/2025
WEI32	10 dB 18GHz 5W Attenuator	Weinschel	WA2-10-0403	WEI32	01/08/2024	01/08/2025

Test equipment used from 3-18 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/15/2024	07/15/2025
145-422'	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	03/26/2024	03/26/2025
IW003'	8.4 meter cable	Insulated Wire	2800-NPS	003	01/17/2024	01/17/2025
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/04/2024	09/04/2025
BONN001'	1-18GHz low noise pre-amp	Bonn	BLMA 0118-M	1811749	07/24/2024	07/24/2025
REA004'	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	02/27/2024	02/27/2025

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2023.0.9.0

Test equipment used from 18-25 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
CBLHF2012-5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	02/27/2024	02/27/2025
CBLHF2012-2M-1'	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/27/2024	02/27/2025
EMC018'	18-40GHz Pre-amp 40dB gain	The EMC Shop	PA40G	27490-01	08/06/2024	08/06/2025
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	02/13/2024	02/13/2025
REA006'	18GHz High Pass Filter	Reactel, Inc	7HS-18G/40G K11	(06)1	04/23/2024	04/23/2025
ROS011'	EMI Test Receiver	Rohde & Schwartz	ESW44	103296	11/06/2024	11/06/2025

Software Utilized:

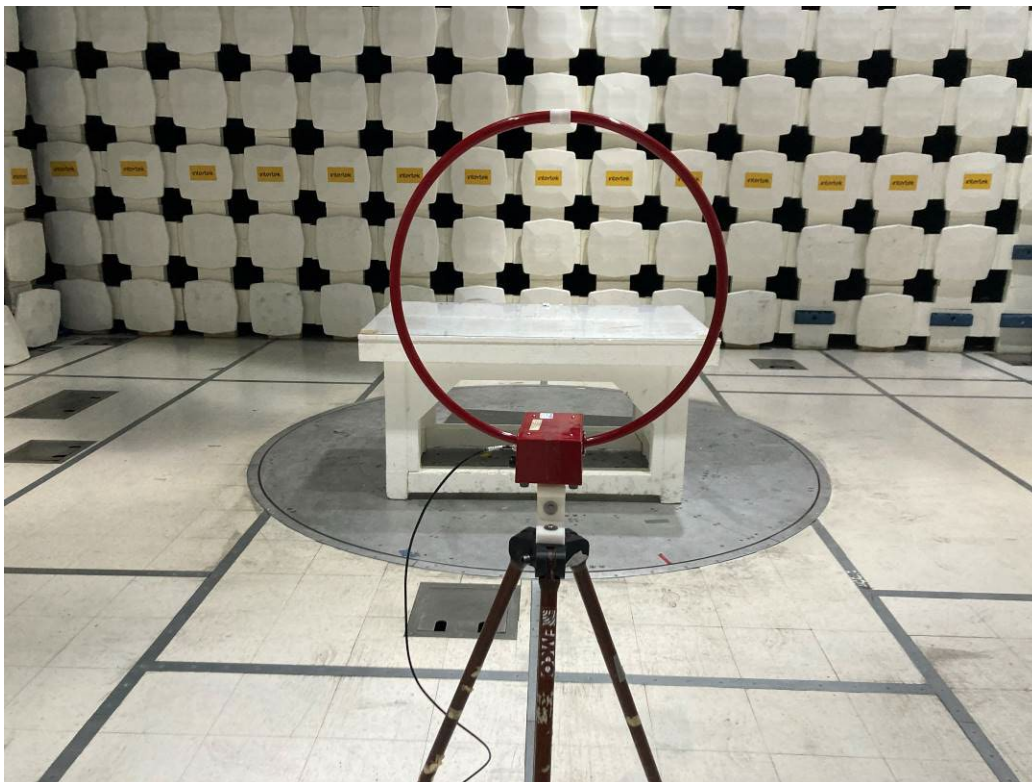
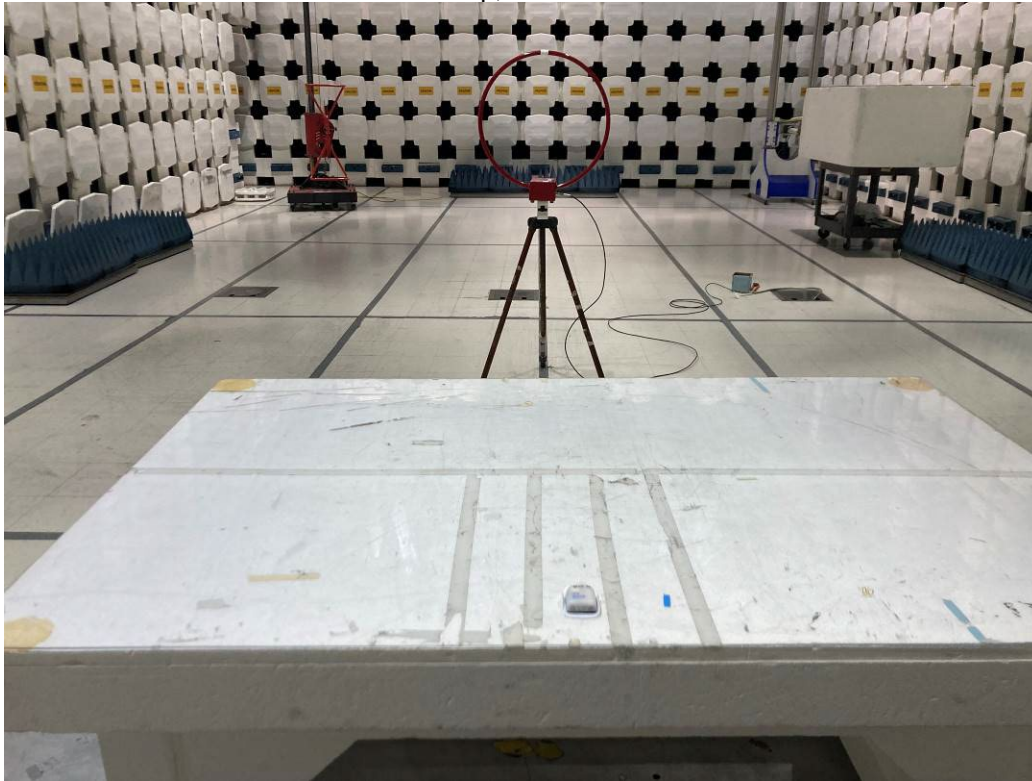
Name	Manufacturer	Version
None	N/A	N/A

10.4 Results:

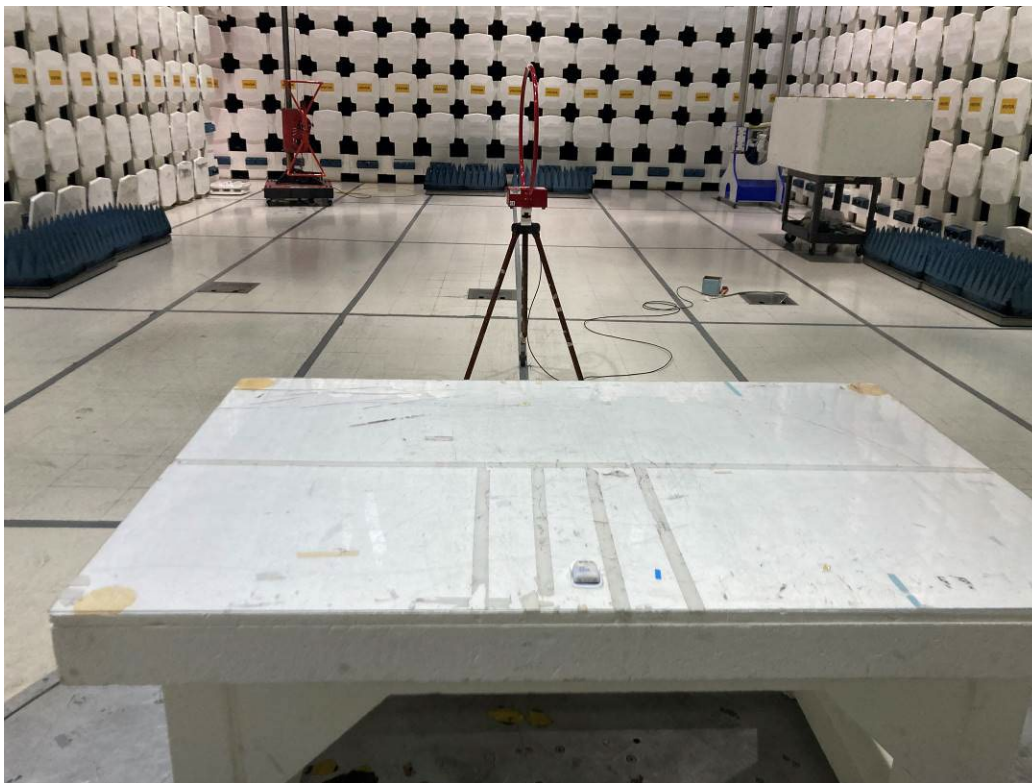
The sample tested was found to Comply.

10.5 Setup Photographs:

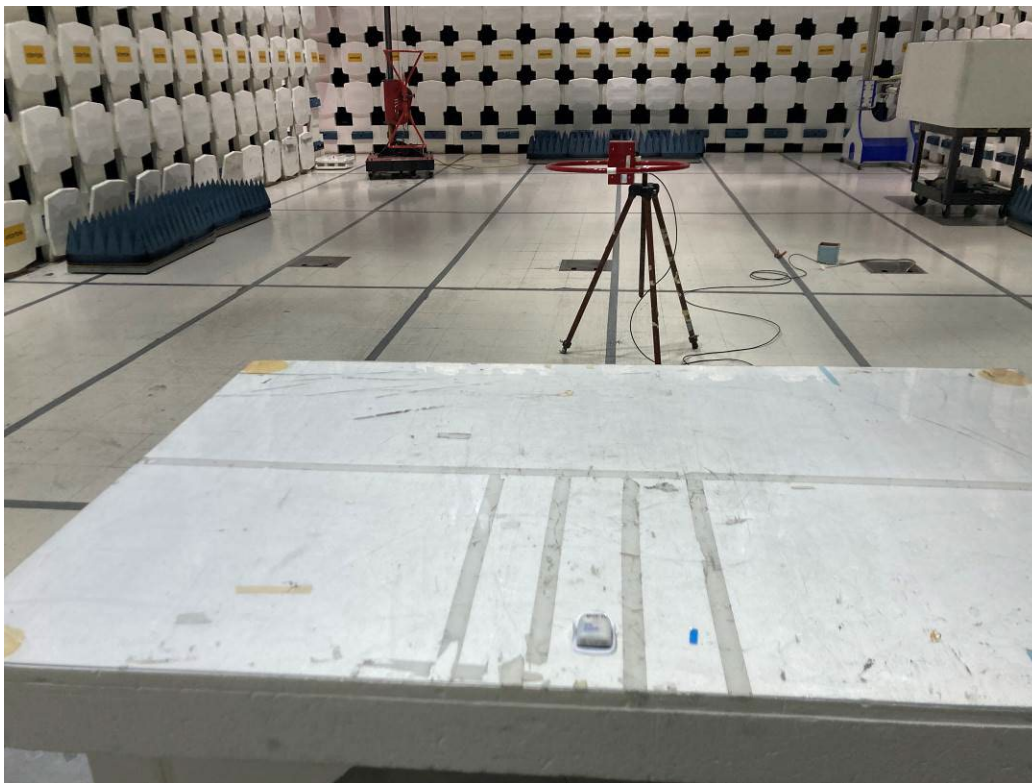
Test Setup, 9 kHz-30 MHz



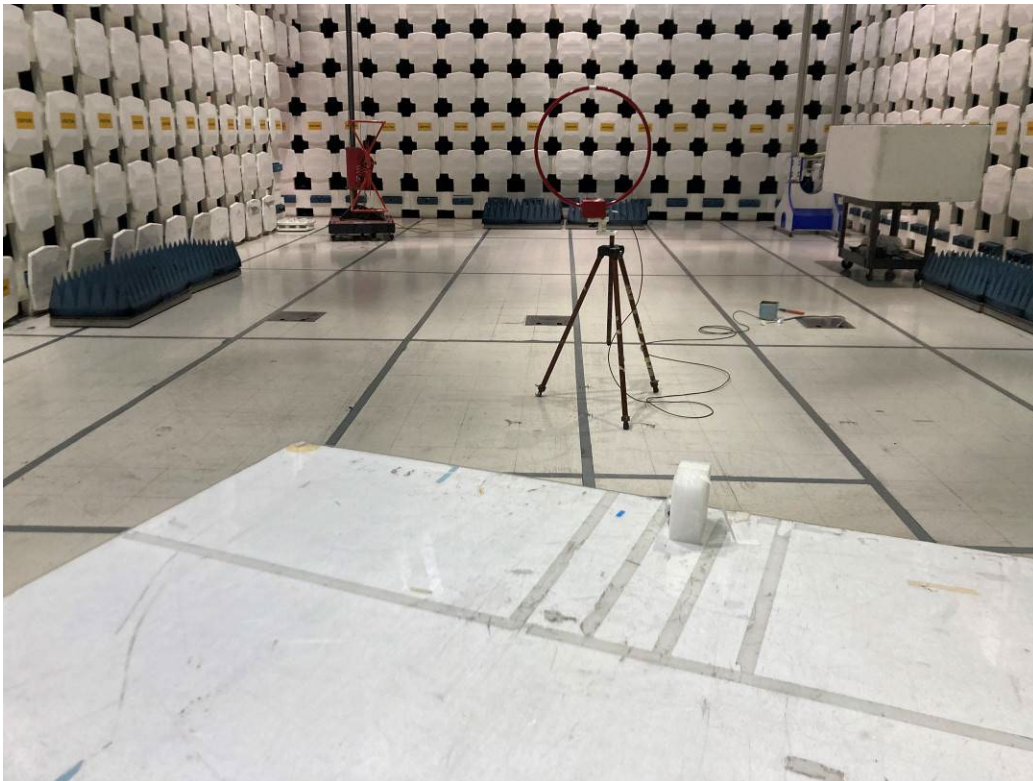
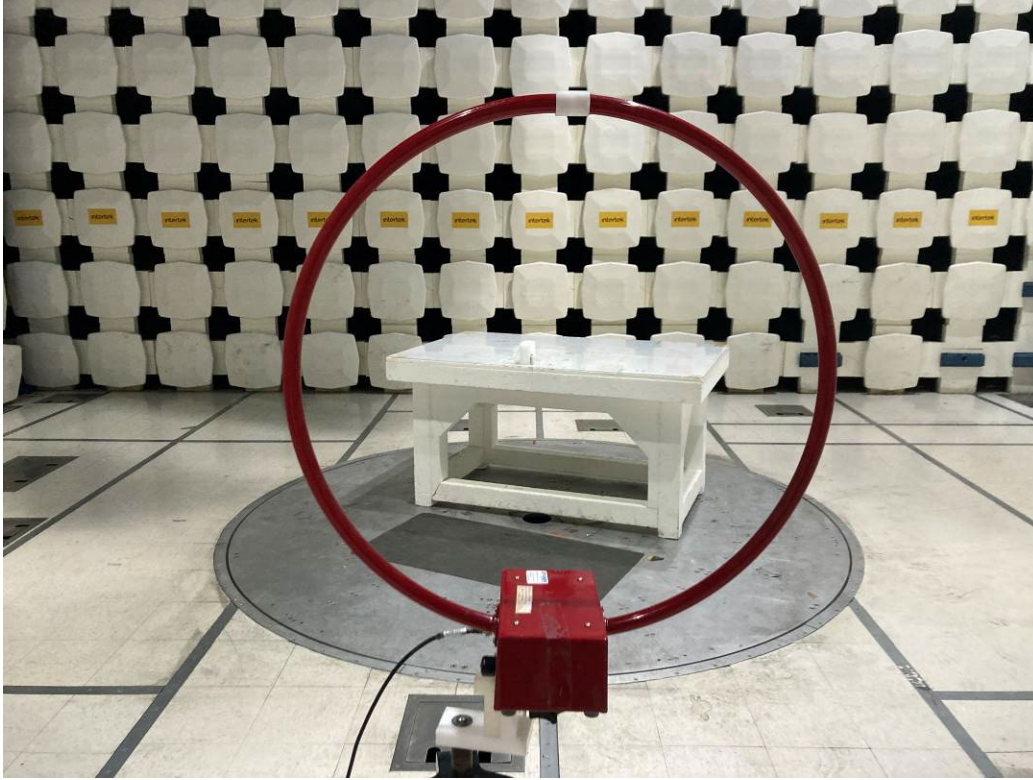
Test Setup, 9 kHz-30 MHz



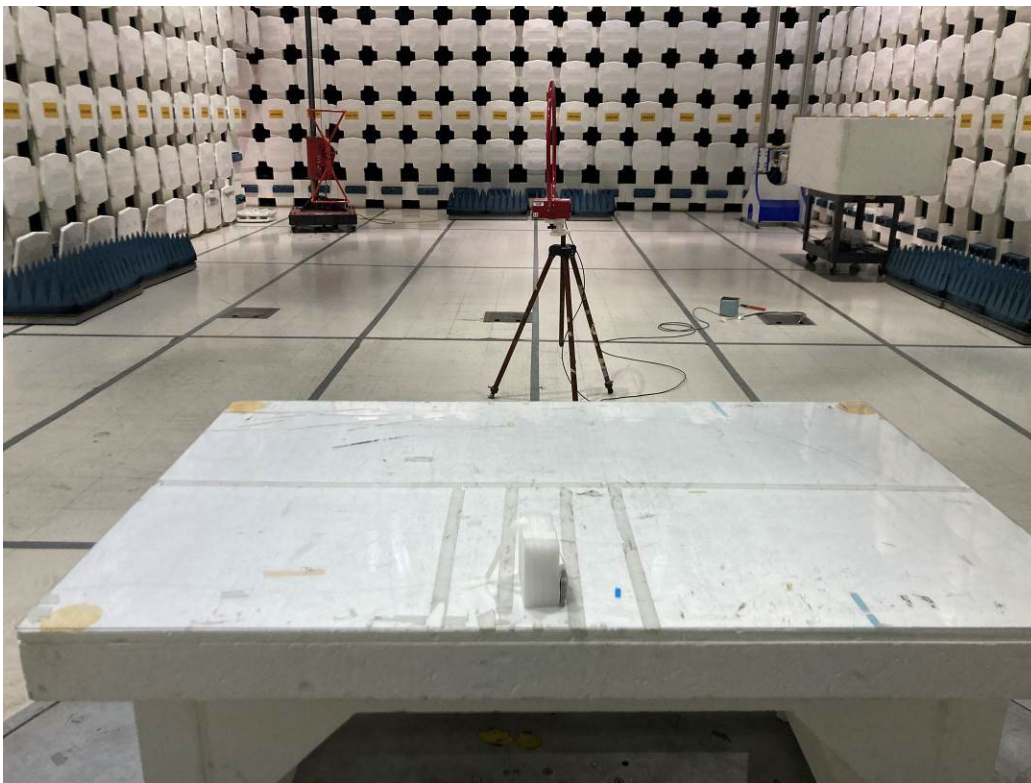
Test Setup, 9 kHz-30 MHz



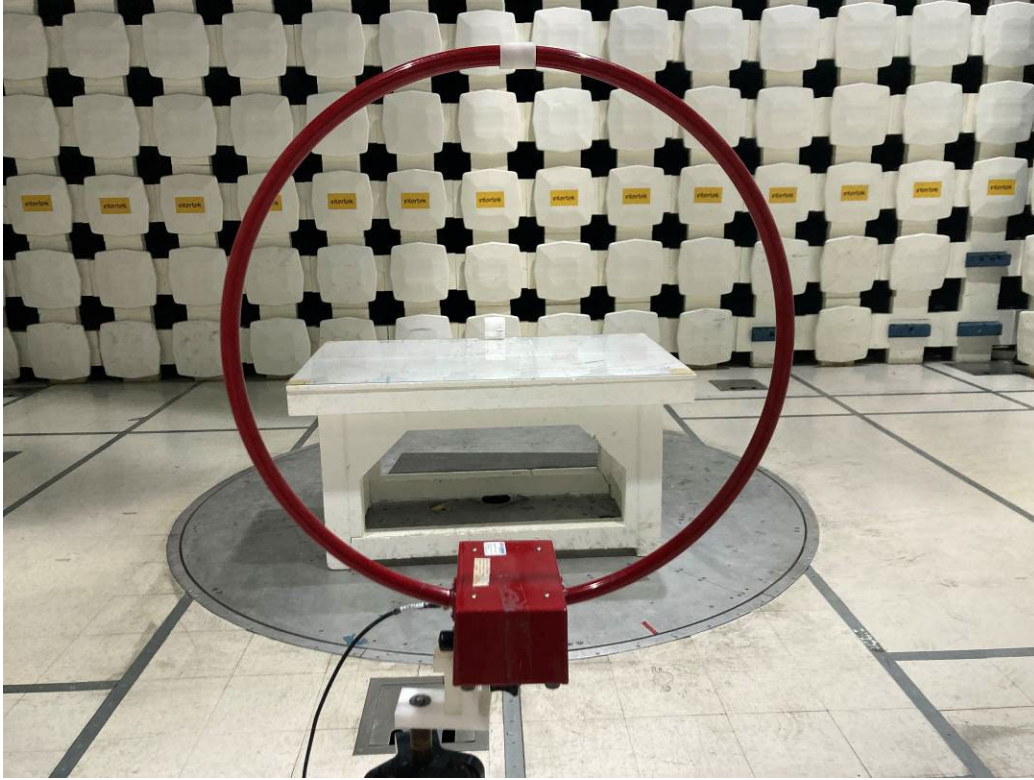
Test Setup, 9 kHz-30 MHz



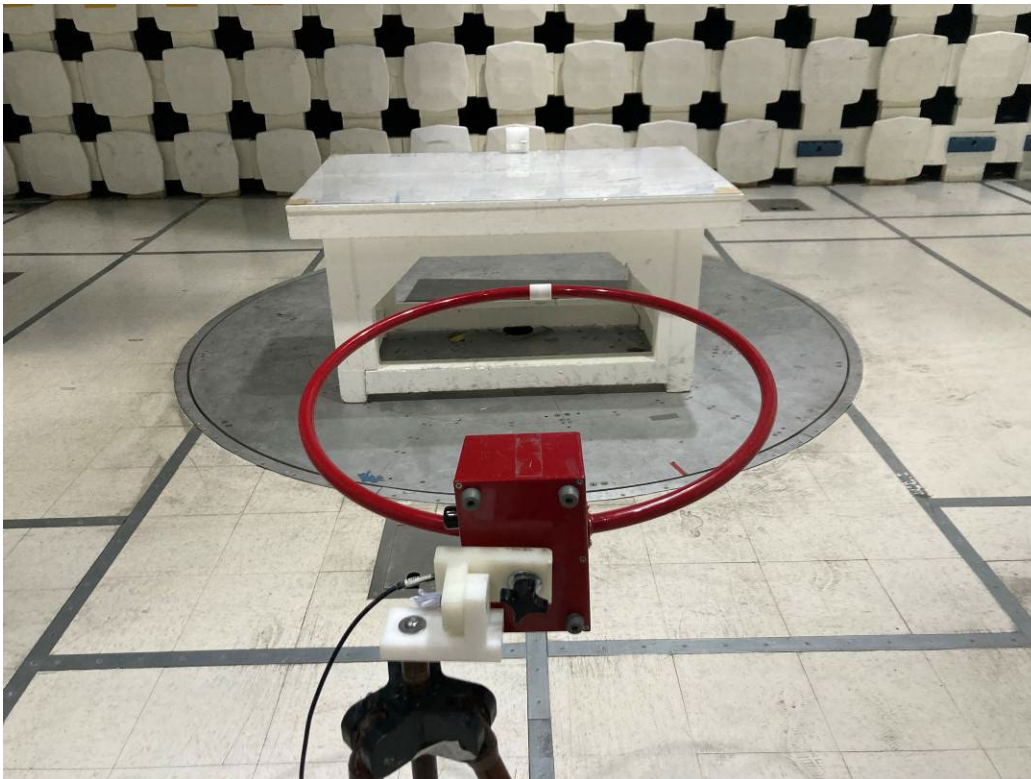
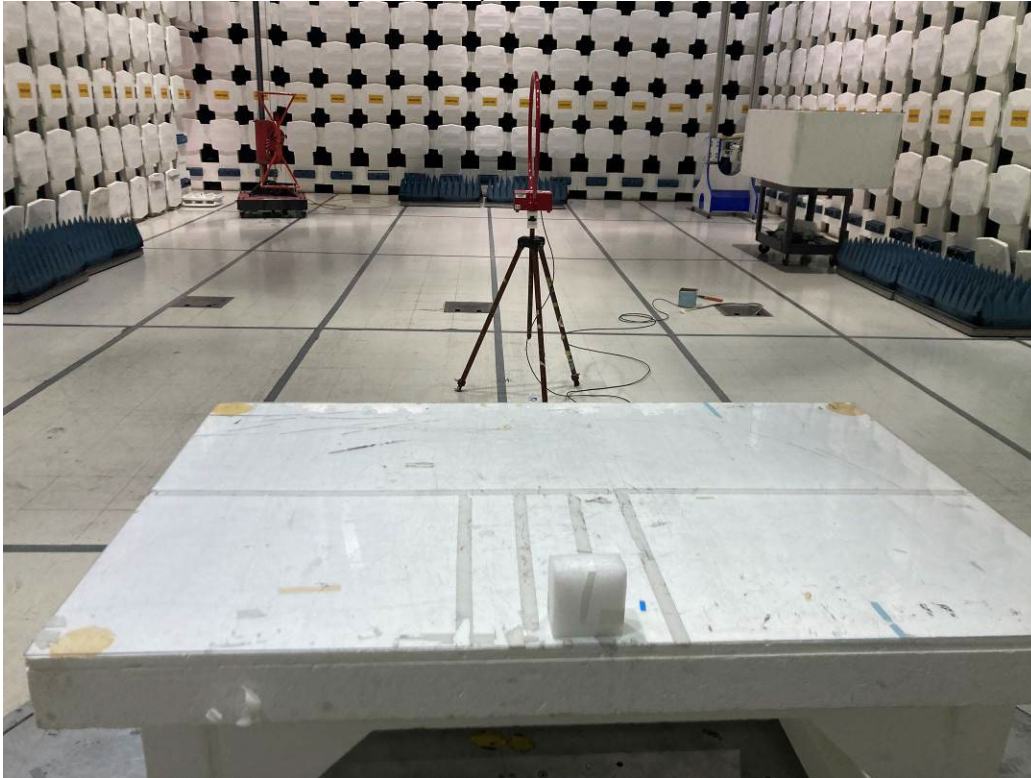
Test Setup, 9 kHz-30 MHz



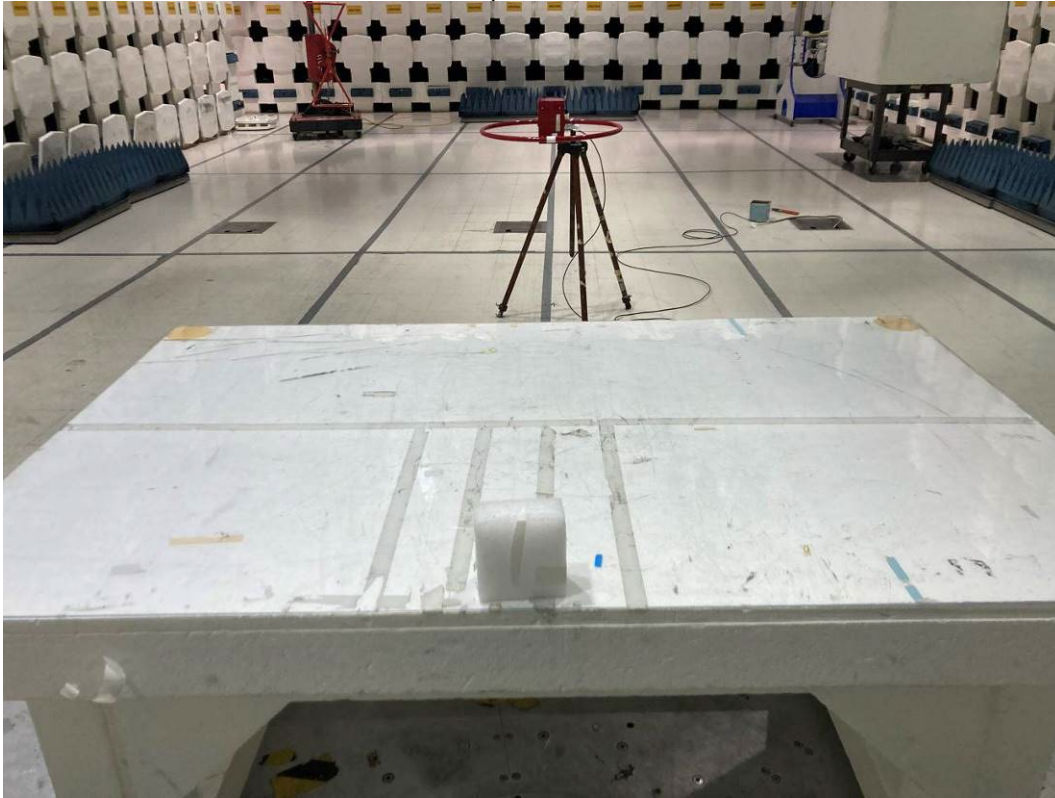
Test Setup, 9 kHz-30 MHz



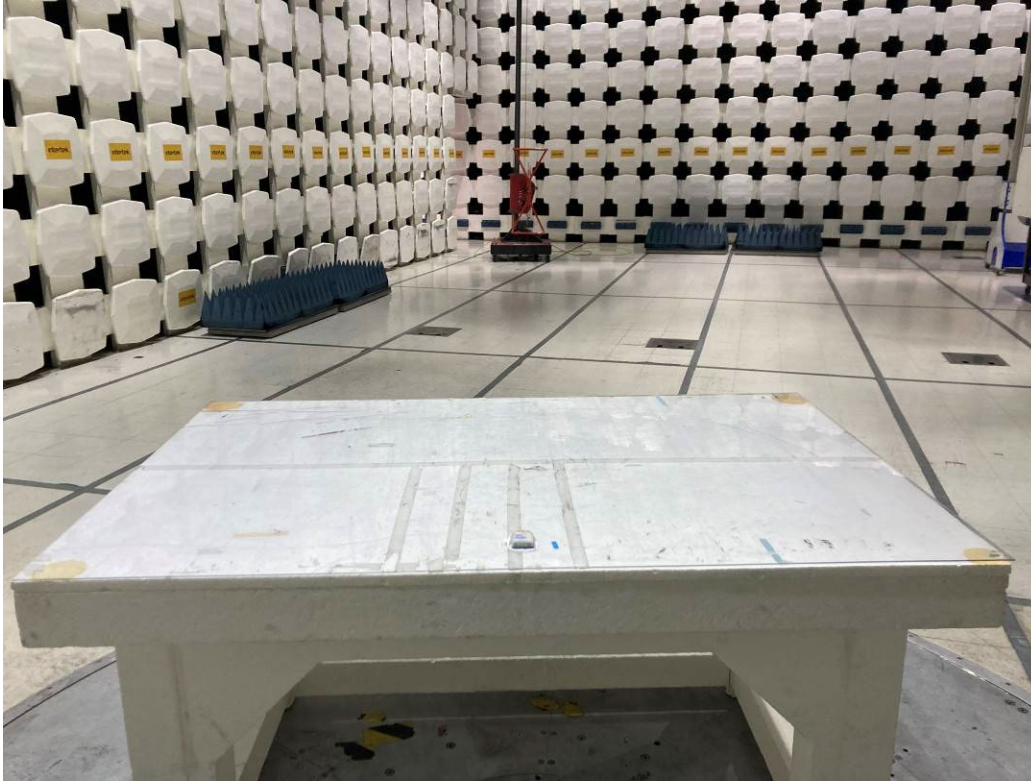
Test Setup, 9 kHz-30 MHz



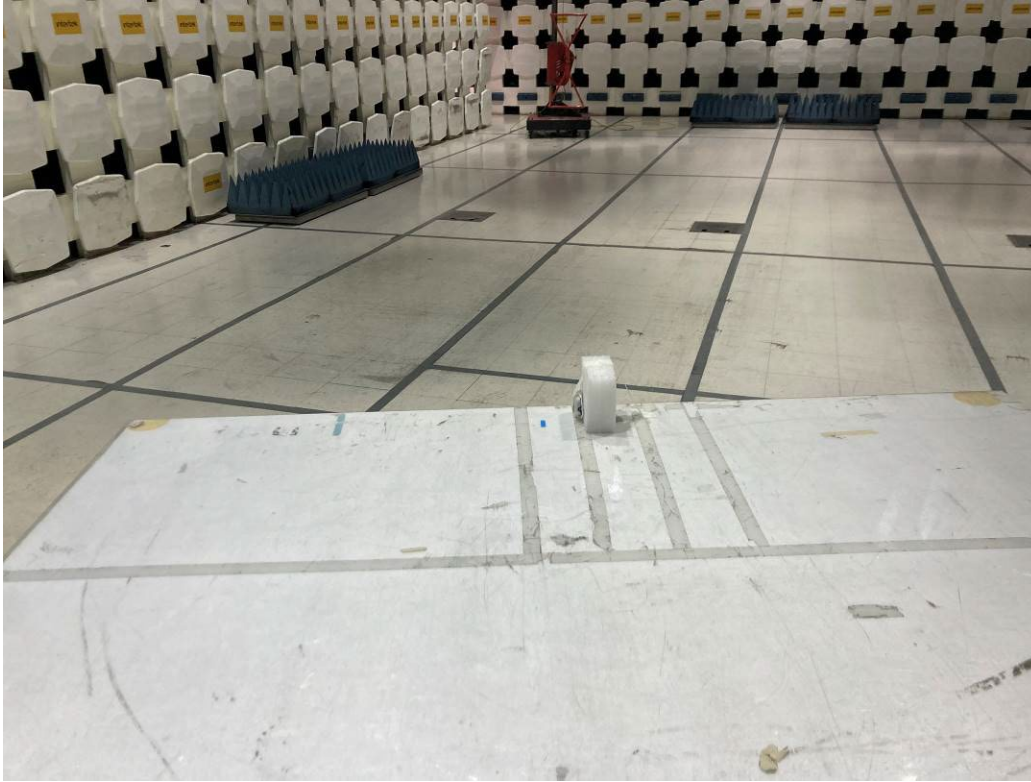
Test Setup, 9 kHz-30 MHz



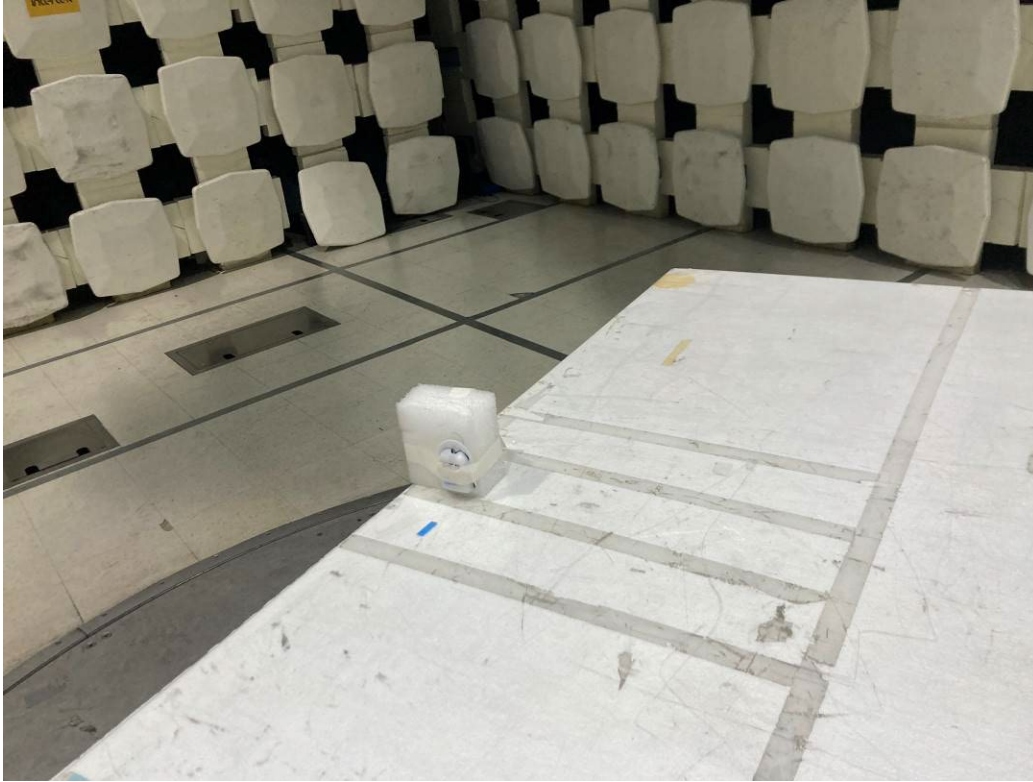
Test Setup, 30-1000 MHz



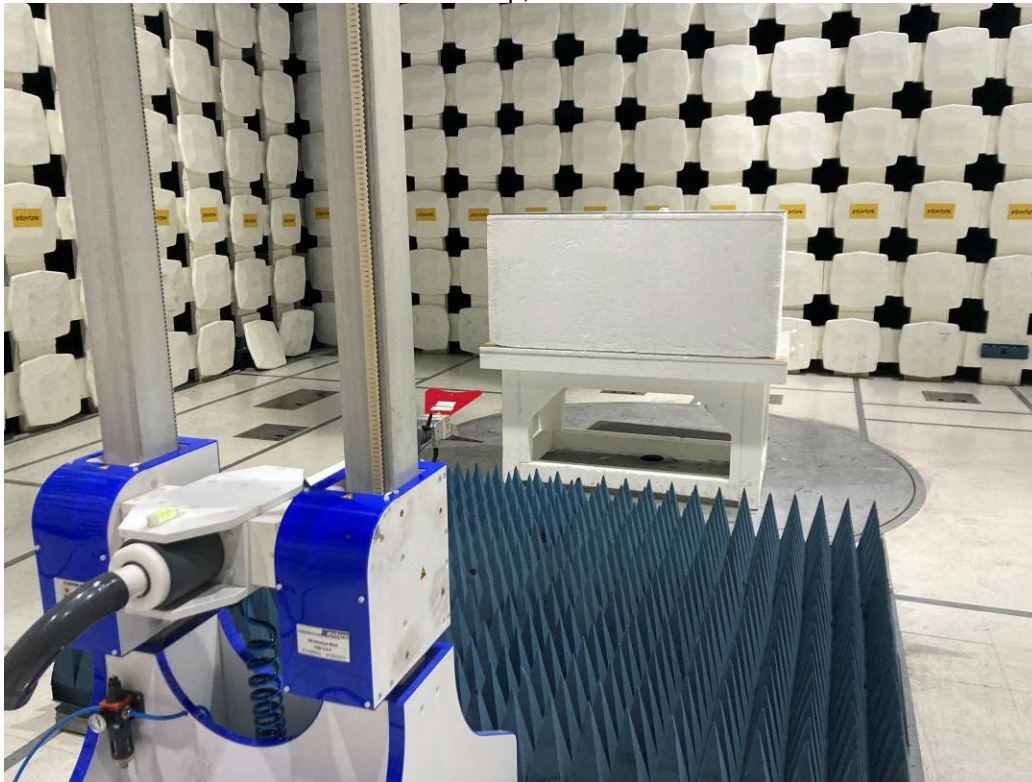
Test Setup, 30-1000 MHz



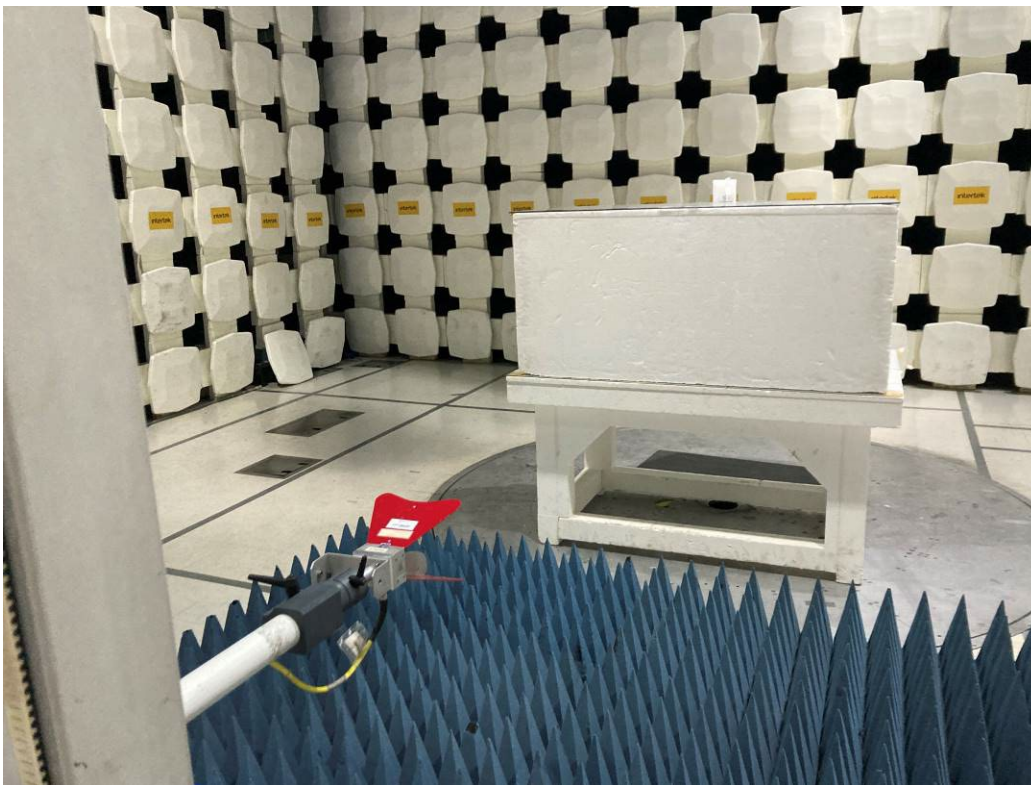
Test Setup, 30-1000 MHz



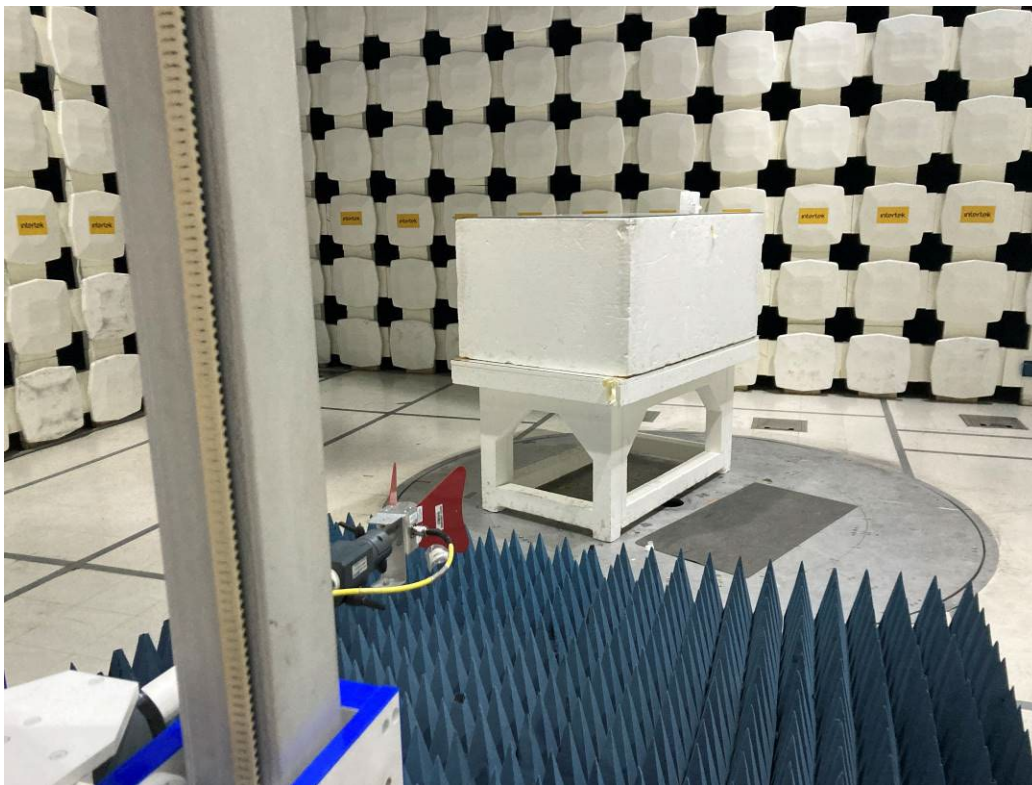
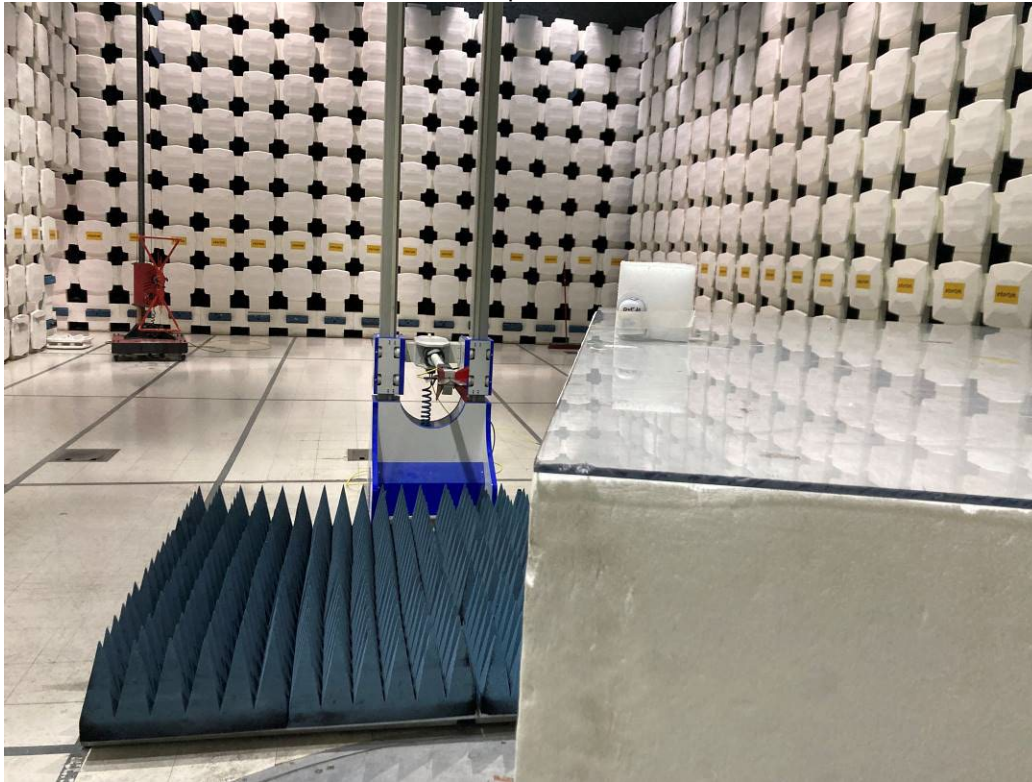
Test Setup, 1-18 GHz



Test Setup, 1-18 GHz



Test Setup, 1-18 GHz



Test Setup, 18-25 GHz



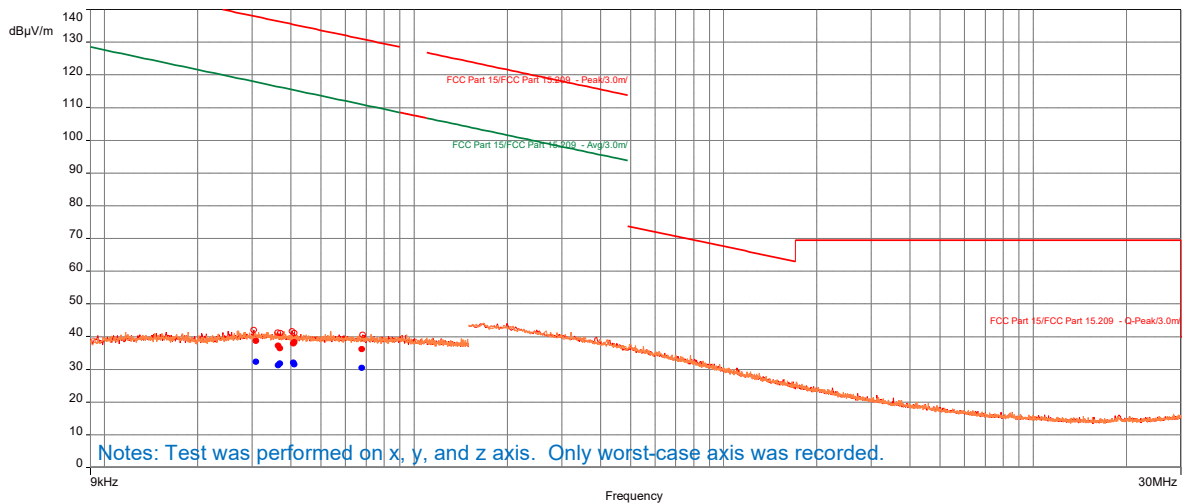
10.6 Plots/Data:

Tx Channel (2402 MHz), EUT on its back, DUT16, RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 4:22:51 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #17_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209) Tx Low CH 2402 MHz_EUT on back_DUT 16

Graph:



Results:

QuasiPeak (PASS) (6)

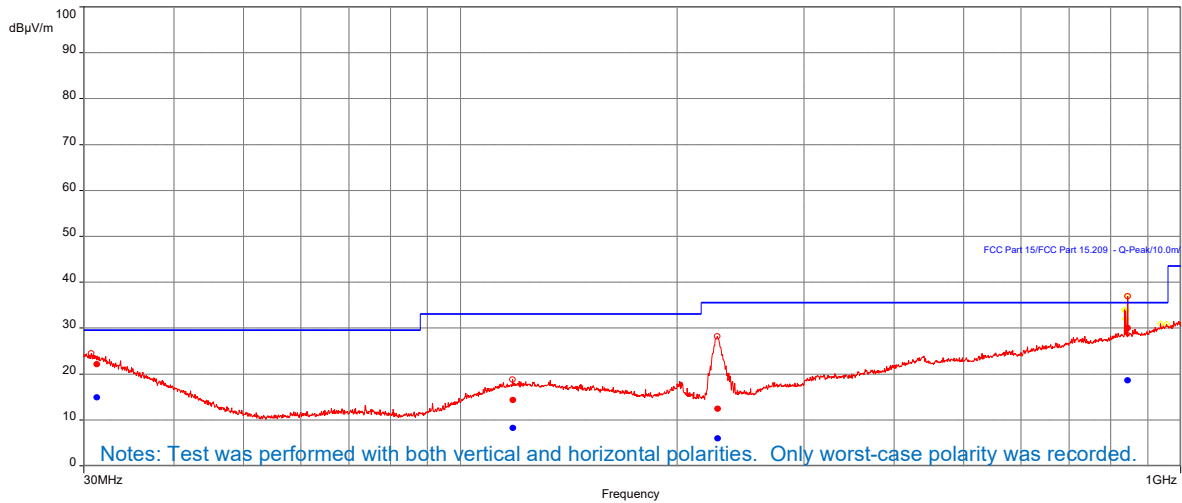
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time	Correction (dB)
0.0308461	32.33	117.82	-85.49	315.60	Z-axis	200	0.10	13.57
0.0364147	31.22	116.38	-85.16	167.20	Z-axis	200	0.10	12.93
0.0368603	31.88	116.27	-84.39	53.10	Z-axis	200	0.10	12.87
0.0408015	32.14	115.39	-83.25	7.40	Z-axis	200	0.10	12.42
0.0409501	31.51	115.36	-83.85	30.20	Z-axis	200	0.10	12.41
0.0678686	30.55	110.97	-80.42	201.10	Z-axis	200	0.10	11.40

Tx Low Channel (2402 MHz), DUT16 on its back, RE 30-1000 MHz

Test Information:

Date and Time	12/9/2024 8:26:17 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #2_ RE 30-1000MHz_ Battery power_ Tx Low CH 2402 MHz_ EUT on back_ EUT 16

Graph:



Results:

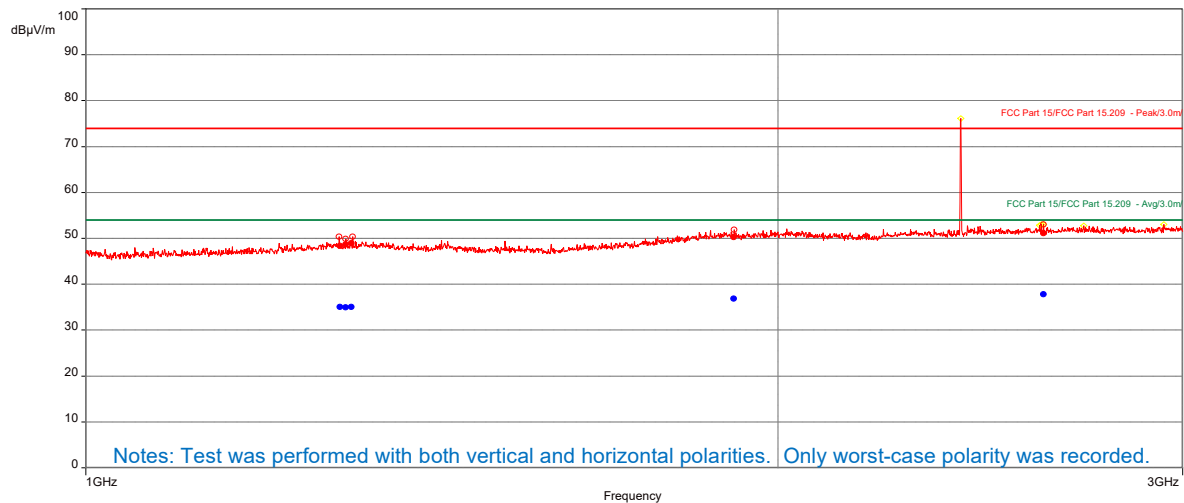
QuasiPeak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
31.2841	14.93	29.54	-14.61	316.40	4.00	Horizontal	120k	0.10	-13.45
118.357	8.31	33.06	-24.75	222.60	4.00	Horizontal	120k	0.10	-18.87
227.5912	6.00	35.56	-29.56	150.80	4.00	Vertical	120k	0.10	-21.09
844.0948	18.62	35.56	-16.94	177.80	4.00	Vertical	120k	0.10	-7.34

Tx Low Channel (2402 MHz), DUT16 on its back, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 7:28:57 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #48_RE 1 to 3 GHz_Tx Low CH 2402MHz_EUT on back_DUT 16_Used PRE12

Graph:**Results:****Peak (PASS) (5)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1289.649	48.43	74.00	-25.57	113.50	3.05	Vertical	1M	1.00	2.80
1297.462	48.65	74.00	-25.35	152.50	3.58	Vertical	1M	1.00	2.76
1304.717	48.95	74.00	-25.05	74.20	1.98	Horizontal	1M	1.00	2.78
1913.864	50.25	74.00	-23.75	231.10	4.00	Vertical	1M	1.00	5.39
2609.763	51.16	74.00	-22.84	192.00	4.00	Horizontal	1M	1.00	6.91

AVG (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1289.649	35.05	54.00	-18.95	113.50	3.05	Vertical	1M	1.00	2.80
1297.462	34.98	54.00	-19.02	152.50	3.58	Vertical	1M	1.00	2.76
1304.717	35.05	54.00	-18.95	74.20	1.98	Horizontal	1M	1.00	2.78
1913.864	36.91	54.00	-17.09	231.10	4.00	Vertical	1M	1.00	5.39
2609.763	37.88	54.00	-16.12	192.00	4.00	Horizontal	1M	1.00	6.91

Note: A big signal was the fundamental emissions.

Intertek

Report Number: 105948073BOX-001.FCC.Rev2

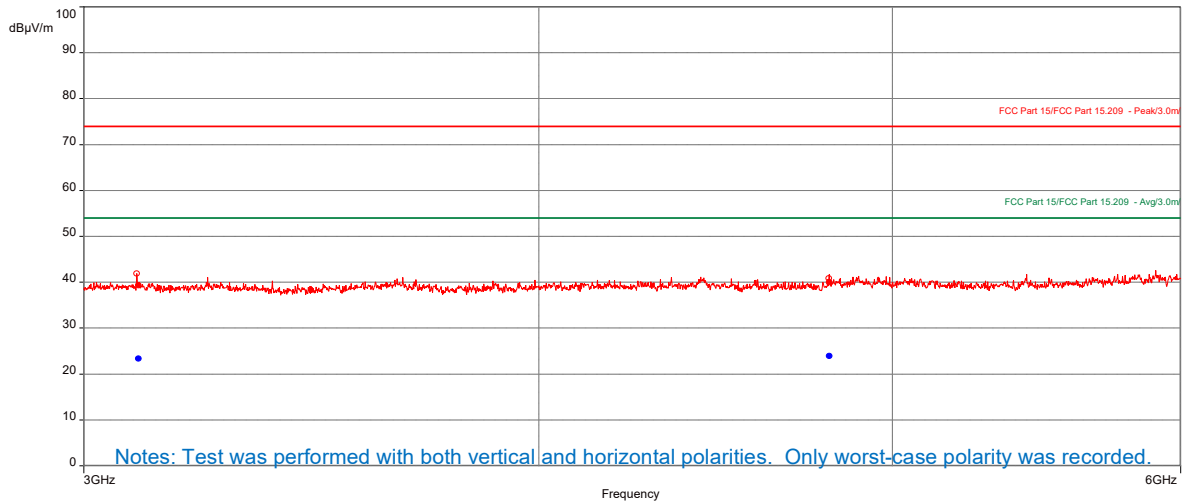
Issued: 12/19/2024
Revised: 04/24/2025

Tx Low Channel (2402 MHz), DUT16 on its back, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 3:33:10 PM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #42_RE 3 to 6 GHz_Tx Low CH 2402 MHz_EUT on back_DUT 16_Used BON001

Graph:



Results:

Peak (PASS) (2)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3105.543	39.39	74.00	-34.61	166.60	3.26	Vertical	1M	1.00	-12.64
4805.322	39.99	74.00	-34.01	0.00	1.00	Vertical	1M	1.00	-9.66

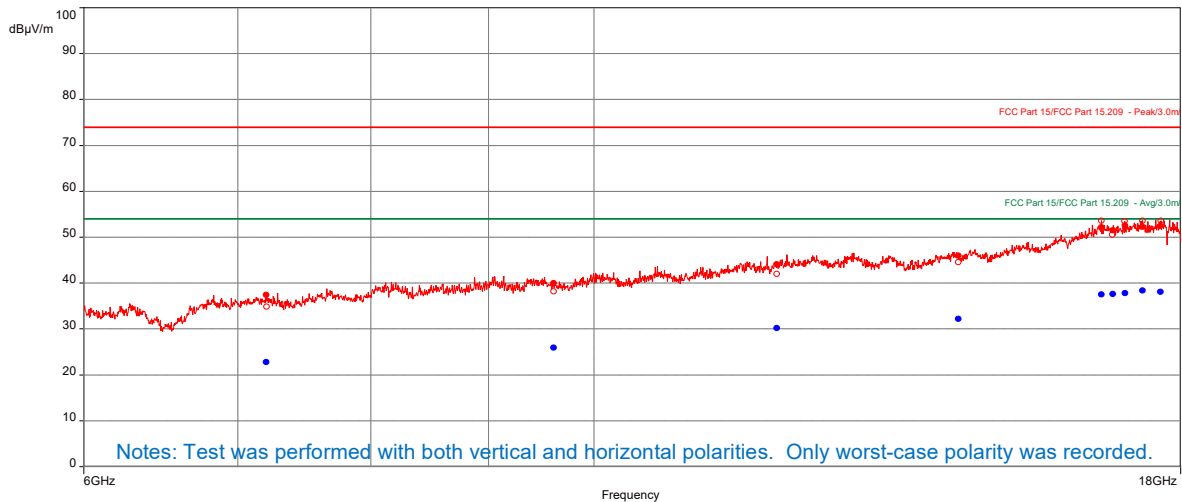
AVG (PASS) (2)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3105.543	23.36	54.00	-30.64	166.60	3.26	Vertical	1M	1.00	-12.64
4805.322	23.99	54.00	-30.01	0.00	1.00	Vertical	1M	1.00	-9.66

Tx Low Channel (2402 MHz), DU16 on its back, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 12:48:29 PM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #37_RE 6 to 18 GHz_Tx Low CH 2402 MHz_EUT on back_DUT 16_Used BON001

Graph:**Results:**

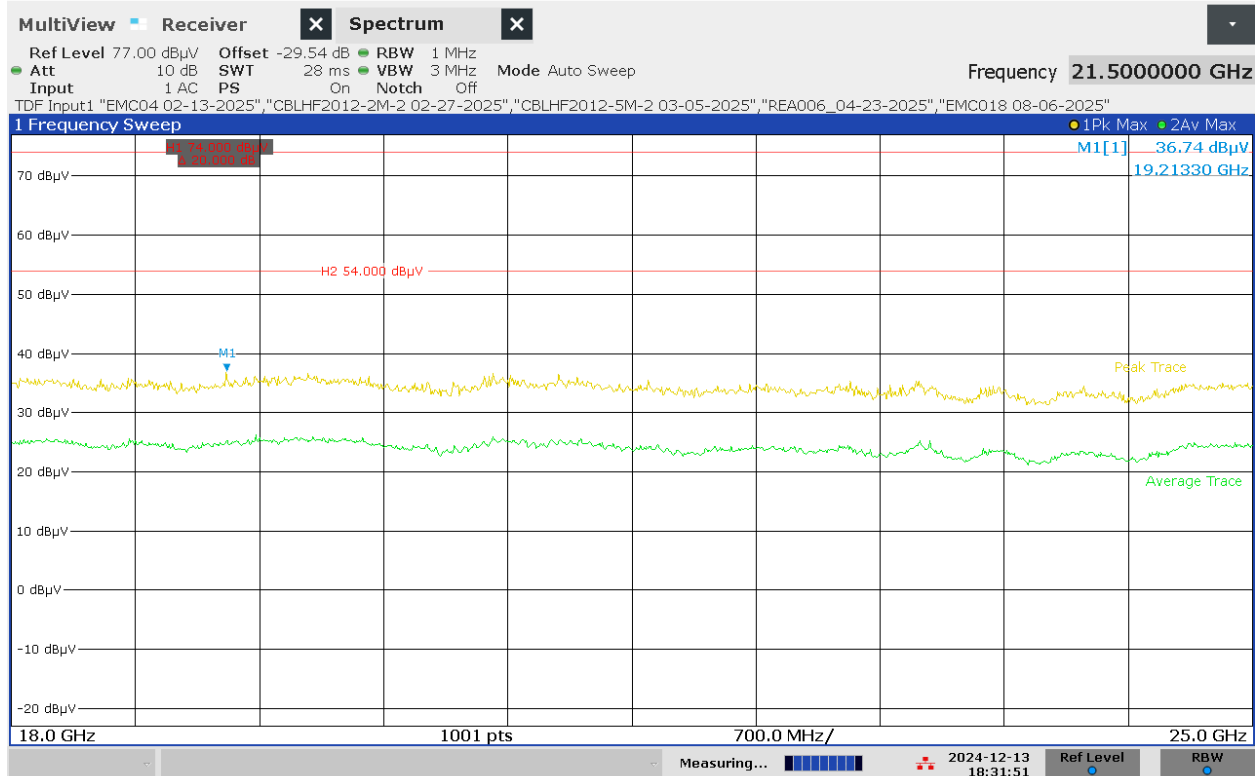
Peak (PASS) (9)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7202.184	37.43	74.00	-36.57	212.30	3.94	Vertical	1M	-5.60
9605.407	39.98	74.00	-34.02	212.60	4.00	Vertical	1M	-2.84
12012.132	44.16	74.00	-29.84	360.00	4.00	Horizontal	1M	1.43
14410.773	46.05	74.00	-27.95	212.40	4.00	Horizontal	1M	3.48
16629.828	52.20	74.00	-21.80	360.00	4.00	Vertical	1M	7.64
16818.364	51.53	74.00	-22.47	212.50	1.00	Vertical	1M	8.16
17022.71	52.53	74.00	-21.47	360.00	1.00	Vertical	1M	8.14
17324.425	52.33	74.00	-21.67	360.00	4.00	Vertical	1M	8.17
17643.885	52.52	74.00	-21.48	212.50	3.94	Vertical	1M	8.43

AVG (PASS) (9)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7202.184	22.86	54.00	-31.14	212.30	3.94	Vertical	1M	-5.60
9605.407	25.99	54.00	-28.01	212.60	4.00	Vertical	1M	-2.84
12012.132	30.20	54.00	-23.80	360.00	4.00	Horizontal	1M	1.43
14410.773	32.19	54.00	-21.81	212.40	4.00	Horizontal	1M	3.48
16629.828	37.60	54.00	-16.40	360.00	4.00	Vertical	1M	7.64
16818.364	37.66	54.00	-16.34	212.50	1.00	Vertical	1M	8.16
17022.71	37.82	54.00	-16.18	360.00	1.00	Vertical	1M	8.14
17324.425	38.37	54.00	-15.63	360.00	4.00	Vertical	1M	8.17
17643.885	38.17	54.00	-15.83	212.50	3.94	Vertical	1M	8.43

Tx Low Channel (2402 MHz), EUT on all three axis, RE 18-25 GHz



06:31:51 PM 12/13/2024

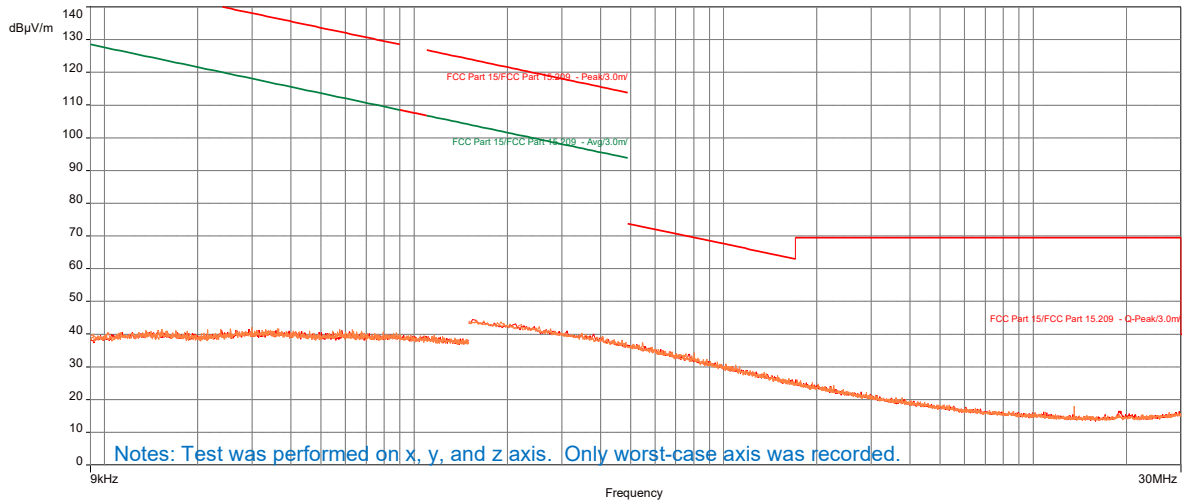
Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx Low Channel (2402 MHz), DUT16 on its long side, RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 5:10:37 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #18_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)_Tx Low CH 2402 MHz_EUT on long side_DUT 16

Graph:



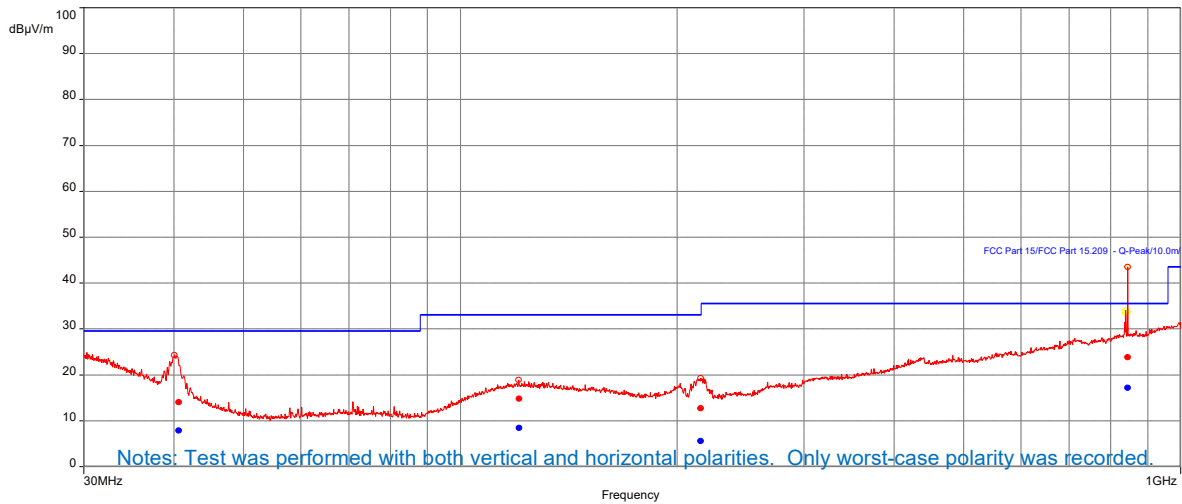
Results: No emission was detected.

Tx Low Channel (2402 MHz), DUT16 on its long side, RE 30-1000 MHz

Test Information:

Date and Time	12/9/2024 8:52:46 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #3 RE 30-1000MHz_Battery power_Tx Low CH 2402 MHz_EUT on long side EUT 16

Graph:



Results:

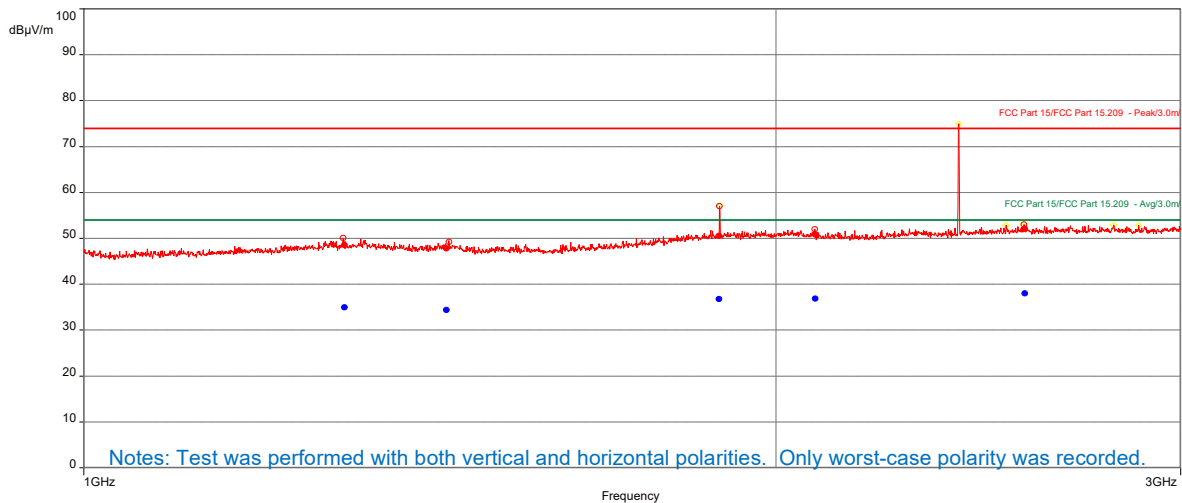
QuasiPeak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
40.6187	7.87	29.54	-21.67	245.30	4.00	Vertical	120k	0.10	-20.16
120.5982	8.51	33.06	-24.55	360.00	1.84	Vertical	120k	0.10	-18.79
215.6804	5.58	33.06	-27.48	142.50	4.00	Vertical	120k	0.10	-21.53
844.5035	17.21	35.56	-18.35	267.50	1.68	Horizontal	120k	0.10	-7.34

Tx Low Channel (2402 MHz), DUT16 on its long side, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 8:17:27 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #50_RE 1 to 3 GHz_Tx Low CH 2402MHz_EUT on long side_DUT 16_Used PRE12

Graph:**Results:**

Peak (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1298.184	48.60	74.00	-25.4	360.00	1.00	Horizontal	1M	1.00	2.76
1438.172	47.86	74.00	-26.14	308.80	3.58	Horizontal	1M	1.00	2.32
1889.154	50.61	74.00	-23.39	348.70	3.58	Horizontal	1M	1.00	5.36
2080.723	50.86	74.00	-23.14	35.10	1.44	Horizontal	1M	1.00	5.73
2567.092	52.12	74.00	-21.88	113.40	3.58	Vertical	1M	1.00	6.95

AVG (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1298.184	34.98	54.00	-19.02	360.00	1.00	Horizontal	1M	1.00	2.76
1438.172	34.39	54.00	-19.61	308.80	3.58	Horizontal	1M	1.00	2.32
1889.154	36.83	54.00	-17.17	348.70	3.58	Horizontal	1M	1.00	5.36
2080.723	36.91	54.00	-17.09	35.10	1.44	Horizontal	1M	1.00	5.73
2567.092	38.06	54.00	-15.94	113.40	3.58	Vertical	1M	1.00	6.95

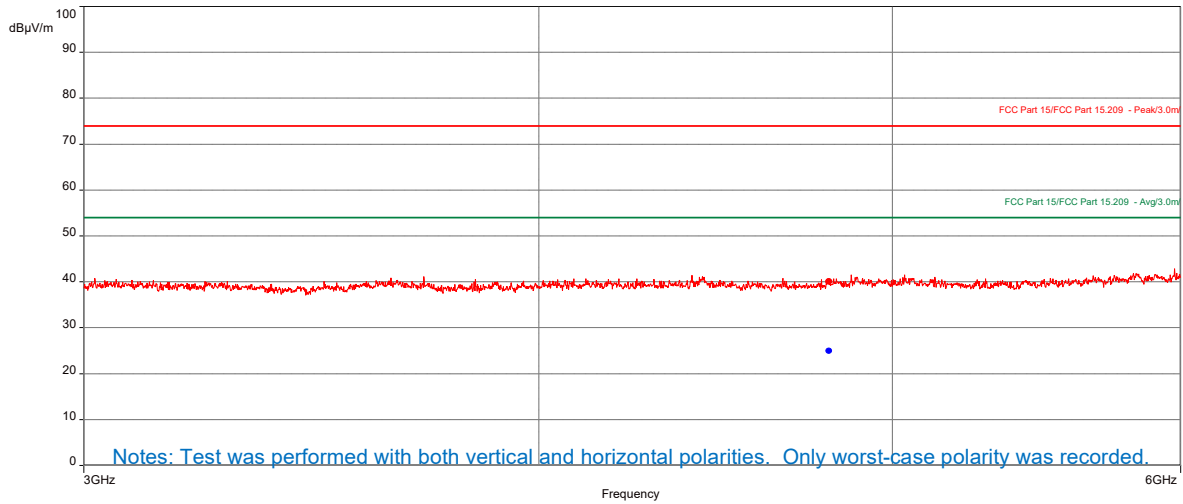
Note: A big signal was the fundamental emissions.

Tx Low Channel (2402 MHz), DUT16 on its long side, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 3:14:54 PM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #40_RE 3 to 6 GHz_Tx Low CH 2402 MHz_EUT on long side_DUT 16_Used BON001

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
4803.813	40.14	74.00	-34.61	52.70	1.69	Horizontal	1M	1.00	-9.67

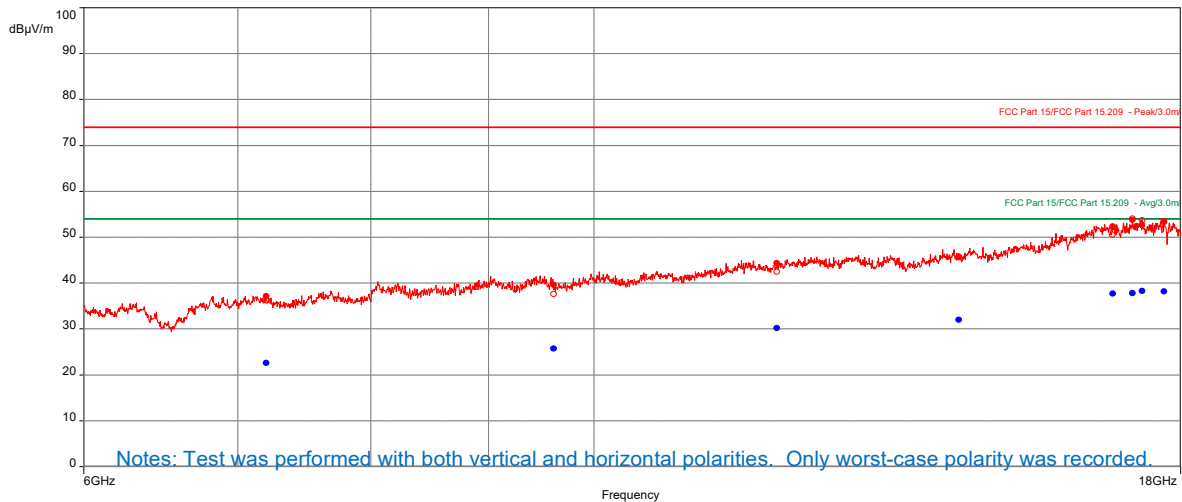
AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
4803.813	24.96	54.00	-29.04	52.70	1.69	Horizontal	1M	1.00	-9.67

Tx Low Channel (2402 MHz), DUT16 on its long side, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 2:25:41 PM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #39_RE 6 to 18 GHz_Tx Low CH 2402 MHz_EUT on long side_DUT 16_Used BON001

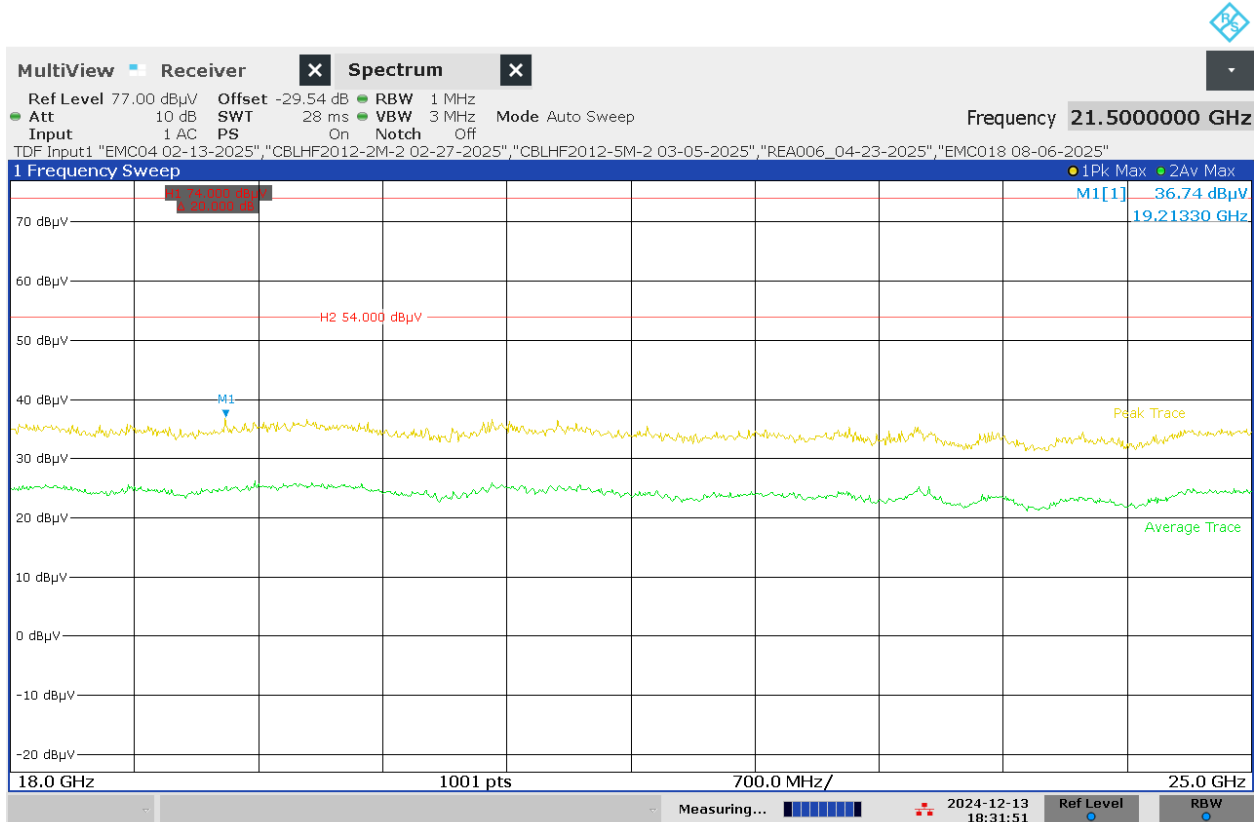
Graph:**Results:****Peak (PASS) (8)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
7202.559	37.18	74.00	-36.82	360.00	4.00	Horizontal	1M	1.00	-5.60
9608.523	39.64	74.00	-34.36	0.00	4.00	Horizontal	1M	1.00	-2.83
12010.624	44.37	74.00	-29.63	0.00	3.94	Horizontal	1M	1.00	1.43
14413.659	45.60	74.00	-28.40	212.40	1.00	Vertical	1M	1.00	3.48
16818.838	52.35	74.00	-21.65	212.60	4.00	Vertical	1M	1.00	8.16
17153.635	53.81	74.00	-20.19	0.00	4.00	Vertical	1M	1.00	8.19
17322.075	52.68	74.00	-21.32	212.40	1.00	Horizontal	1M	1.00	8.16
17705.9	53.30	74.00	-20.70	0.00	4.00	Horizontal	1M	1.00	8.56

AVG (PASS) (8)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
7202.559	22.62	54.00	-31.38	360.00	4.00	Horizontal	1M	1.00	-5.60
9608.523	25.78	54.00	-28.22	0.00	4.00	Horizontal	1M	1.00	-2.83
12010.624	30.25	54.00	-23.75	0.00	3.94	Horizontal	1M	1.00	1.43
14413.659	32.04	54.00	-21.96	212.40	1.00	Vertical	1M	1.00	3.48
16818.838	37.70	54.00	-16.30	212.60	4.00	Vertical	1M	1.00	8.16
17153.635	37.84	54.00	-16.16	0.00	4.00	Vertical	1M	1.00	8.19
17322.075	38.29	54.00	-15.71	212.40	1.00	Horizontal	1M	1.00	8.16
17705.9	38.24	54.00	-15.76	0.00	4.00	Horizontal	1M	1.00	8.56

Tx Low Channel (2402 MHz), EUT on all three axis, RE 18-25 GHz



06:31:51 PM 12/13/2024

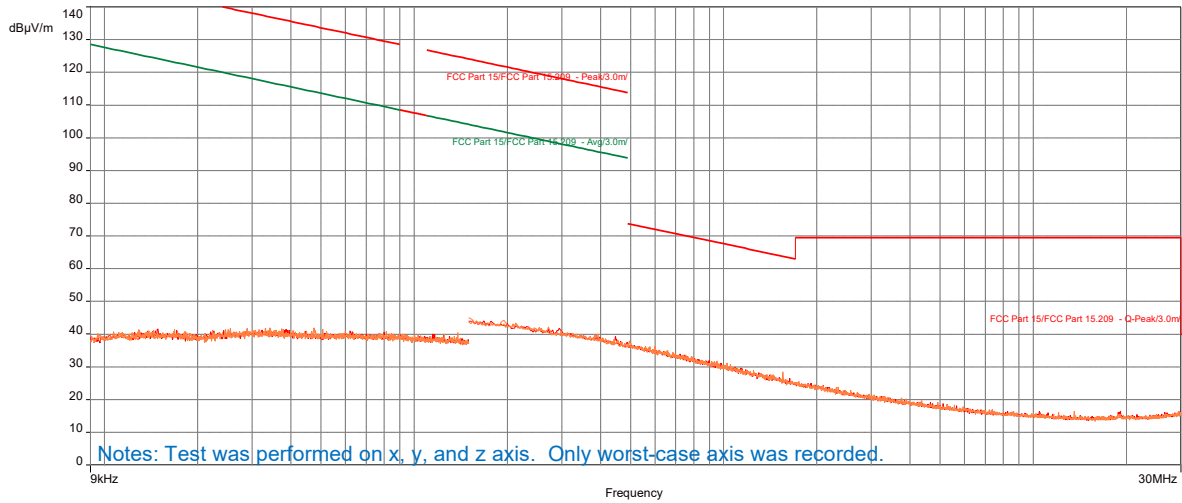
Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx Low Channel (2402 MHz), DUT16 on its short side, RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 5:24:26 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #19_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)_Tx Low CH 2402 MHz_EUT on short side_DUT 16

Graph:



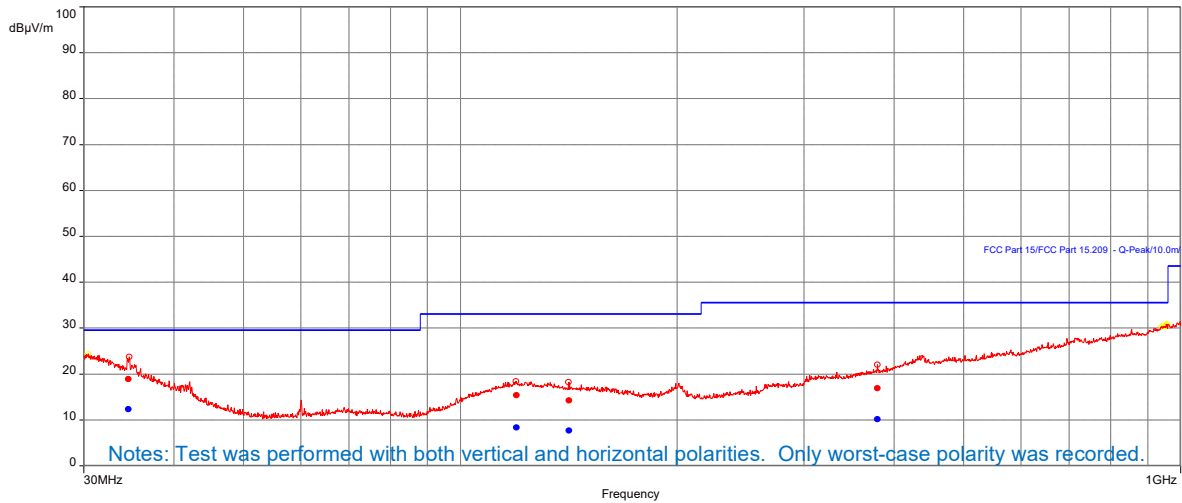
Results: No emission was detected.

Tx Low Channel (2402 MHz), DUT16 on its short side, RE 30-1000 MHz

Test Information:

Date and Time	12/9/2024 9:17:29 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #4_ RE 30-1000MHz_ Battery power_ Tx Low CH 2402 MHz_ EUT on short side_ DUT 16

Graph:



Results:

QuasiPeak (PASS) (4)

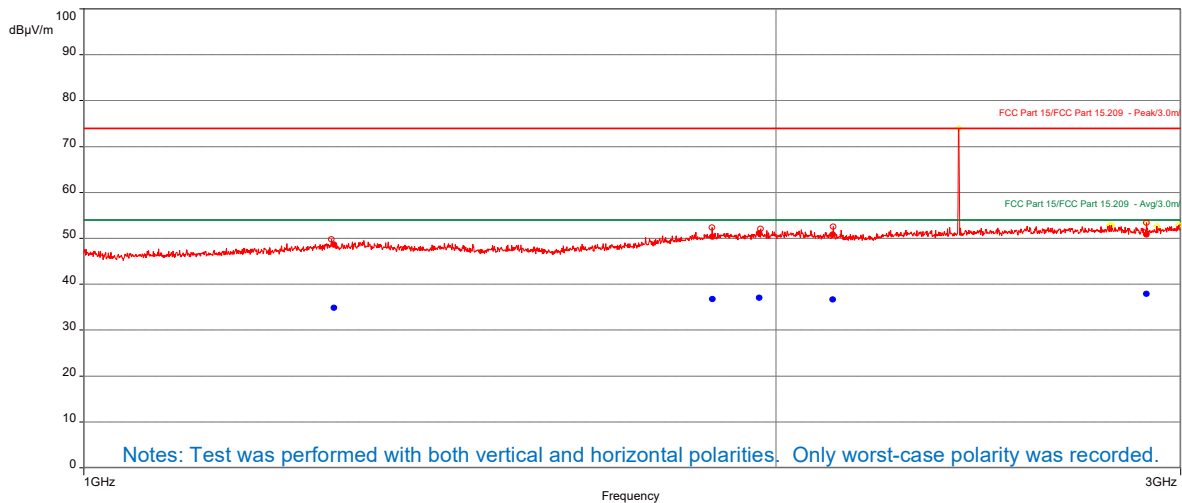
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
34.6037	12.36	29.54	-17.18	360.00	4.00	Horizontal	120k	0.10	-15.86
119.68	8.42	33.06	-24.64	307.30	2.17	Horizontal	120k	0.10	-18.80
141.4465	7.67	33.06	-25.39	17.60	2.07	Horizontal	120k	0.10	-19.63
379.3611	10.17	35.56	-25.39	291.00	2.21	Vertical	120k	0.10	-16.57

Tx Low Channel (2402 MHz), DUT16 on its short side, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 7:53:03 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #49_RE 1 to 3 GHz_Tx Low CH 2402MHz_EUT on short side_DUT 16_Used PRE12

Graph:



Results:

Peak (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1284.929	48.68	74.00	-25.32	270.20	3.05	Vertical	1M	1.00	2.79
1876.662	50.42	74.00	-23.58	360.00	1.44	Vertical	1M	1.00	5.29
1967.344	51.12	74.00	-22.88	152.50	3.58	Vertical	1M	1.00	5.79
2117.365	50.87	74.00	-23.13	270.10	1.00	Horizontal	1M	1.00	5.56
2899.35	50.82	74.00	-23.18	309.10	1.00	Horizontal	1M	1.00	7.02

AVG (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1284.929	34.92	54.00	-19.08	270.20	3.05	Vertical	1M	1.00	2.79
1876.662	36.80	54.00	-17.20	360.00	1.44	Vertical	1M	1.00	5.29
1967.344	37.05	54.00	-16.95	152.50	3.58	Vertical	1M	1.00	5.79
2117.365	36.70	54.00	-17.30	270.10	1.00	Horizontal	1M	1.00	5.56
2899.35	37.89	54.00	-16.11	309.10	1.00	Horizontal	1M	1.00	7.02

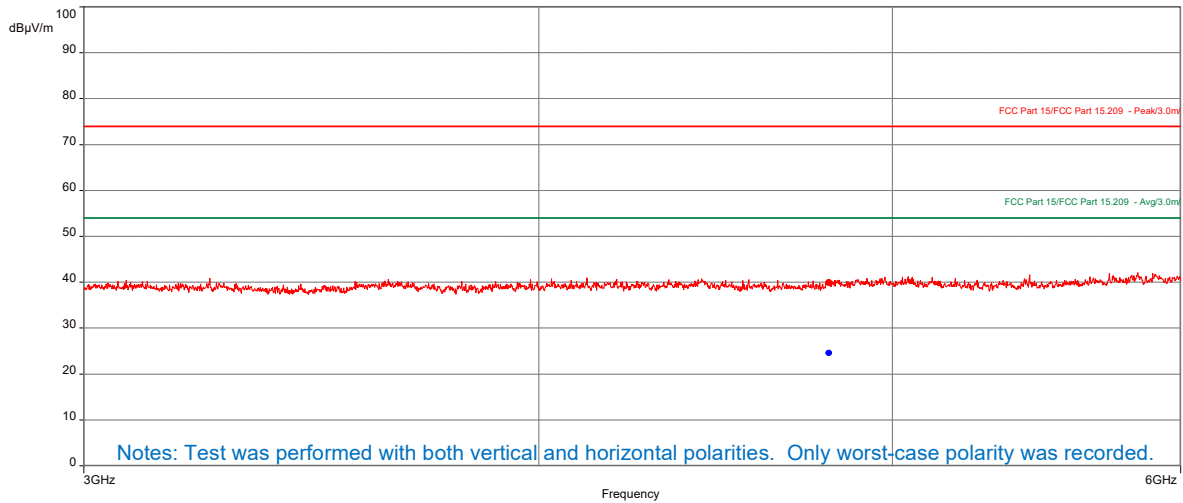
Note: A big signal was the fundamental emissions.

Tx Low Channel (2402 MHz), DUT16 on its short side, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 3:23:52 PM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #41_RE 3 to 6 GHz_Tx Low CH 2402 MHz_EUT on short side_DUT 16_Used BON001

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
4804.311	39.97	74.00	-34.03	166.50	2.47	Vertical	1M	1.00	-9.66

AVG (PASS) (1)

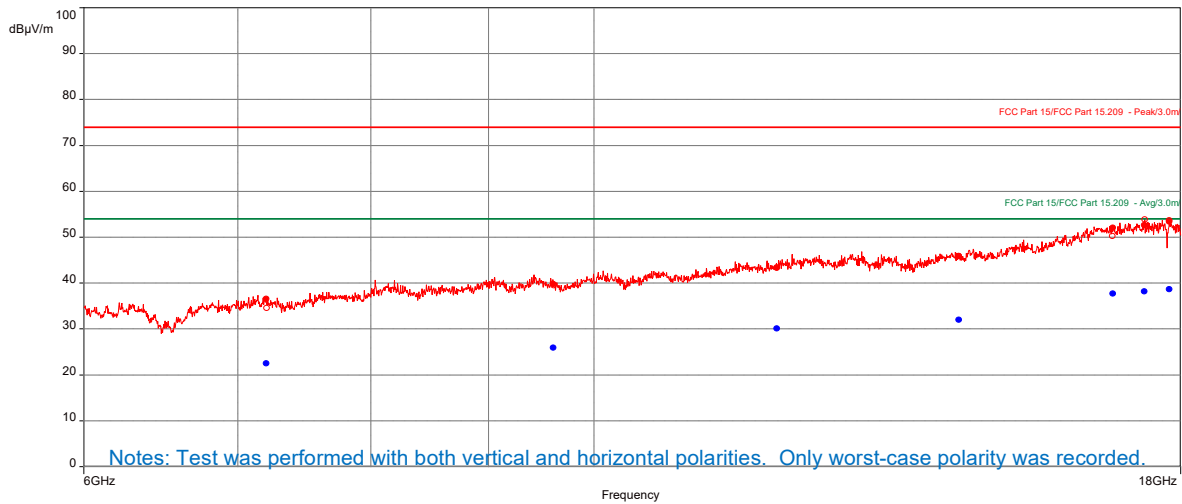
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
4804.311	24.66	54.00	-29.34	166.50	2.47	Vertical	1M	1.00	-9.66

Tx Low Channel (2402 MHz), DU16 on its short side, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 1:41:41 PM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #38_RE 6 to 18 GHz_Tx Low CH 2402 MHz_EUT on short side_DUT 16_Used BON001

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7204.266	36.65	74.00	-37.35	360.00	1.00	Horizontal	1M	-5.60
9603.012	39.88	74.00	-34.12	0.00	1.00	Horizontal	1M	-2.85
12010.561	43.32	74.00	-30.68	212.40	4.00	Horizontal	1M	1.43
14415.329	45.89	74.00	-28.11	0.00	3.94	Vertical	1M	3.48
16817.092	52.08	74.00	-21.92	360.00	3.94	Horizontal	1M	8.16
17360.414	52.66	74.00	-21.34	212.60	3.94	Vertical	1M	8.17
17797.589	53.47	74.00	-20.53	212.40	3.94	Horizontal	1M	8.66

AVG (PASS) (7)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7204.266	22.56	54.00	-31.44	360.00	1.00	Horizontal	1M	-5.60
9603.012	25.96	54.00	-28.04	0.00	1.00	Horizontal	1M	-2.85
12010.561	30.12	54.00	-23.88	212.40	4.00	Horizontal	1M	1.43
14415.329	32.03	54.00	-21.97	0.00	3.94	Vertical	1M	3.48
16817.092	37.75	54.00	-16.25	360.00	3.94	Horizontal	1M	8.16
17360.414	38.25	54.00	-15.75	212.60	3.94	Vertical	1M	8.17
17797.589	38.68	54.00	-15.32	212.40	3.94	Horizontal	1M	8.66

Tx Low Channel (2402 MHz), EUT on all three axis, RE 18-25 GHz



06:31:51 PM 12/13/2024

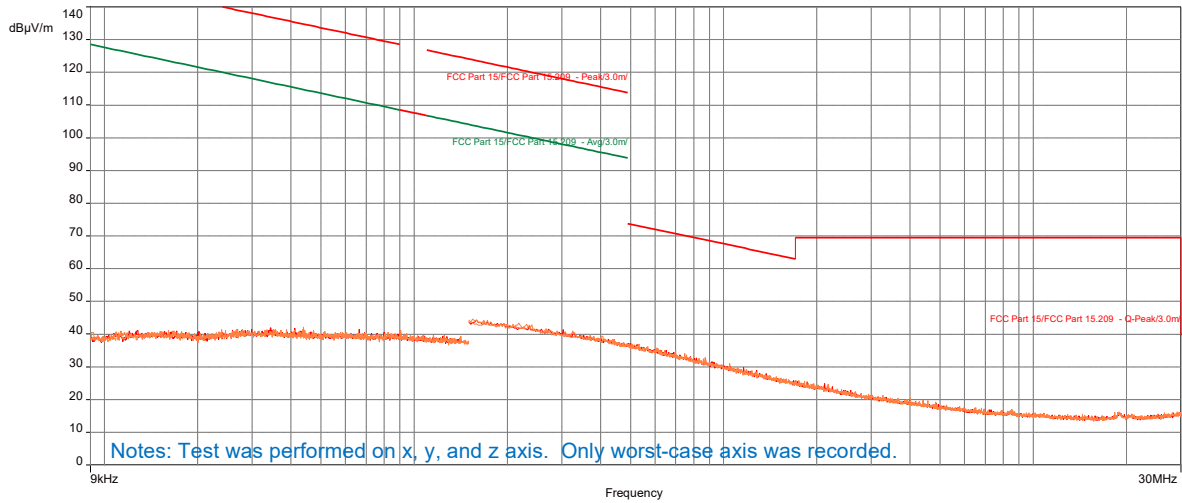
Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx Worst-case Channel (Mid Channel, DUT18 on its back, DUT18), RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 5:46:51 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #20_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)_Tx Mid CH 2440 MHz_EUT on back_DUT 18

Graph:



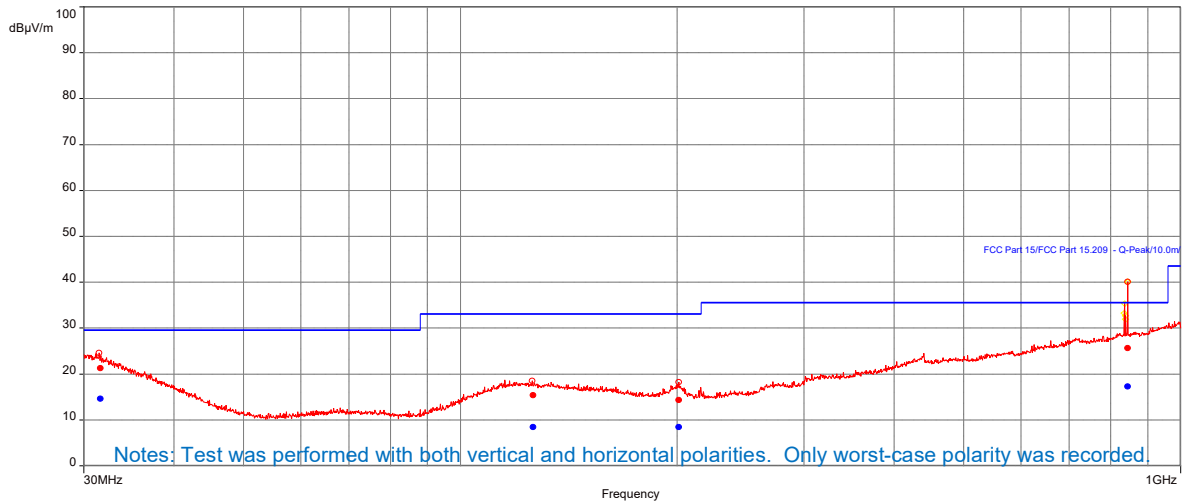
Results: No emission was detected.

Tx Mid Channel (2440 MHz), DUT18 on its back, 30-1000 MHz

Test Information:

Date and Time	12/9/2024 9:43:46 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #5_ RE 30-1000MHz_ Battery power_ Tx Mid CH 2440 MHz_ EUT on back_ DUT 18

Graph:



Results:

QuasiPeak (PASS) (4)

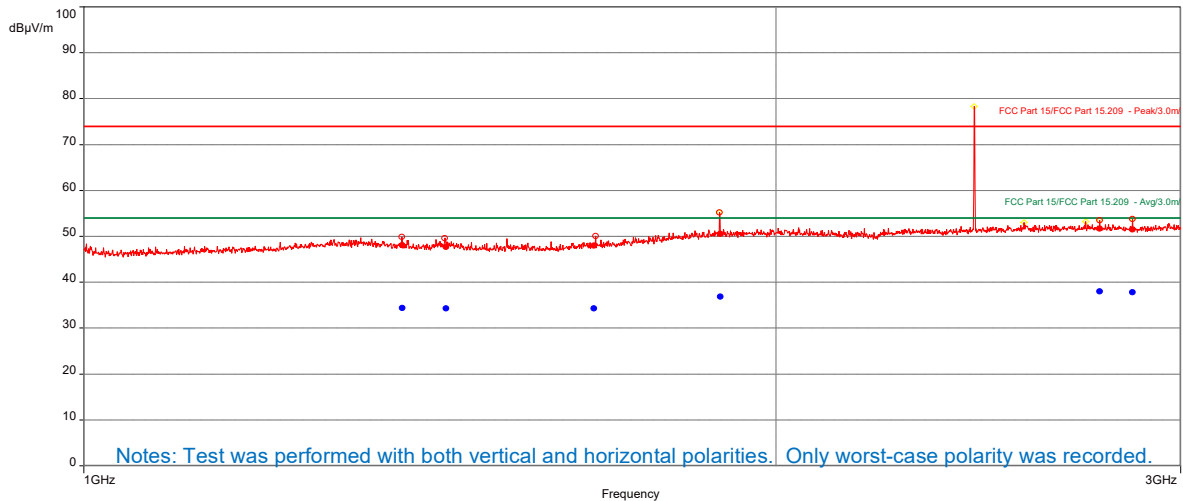
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
31.6272	14.69	29.54	-14.85	139.80	4.00	Vertical	120k	0.10	-13.65
126.1191	8.47	33.06	-24.59	354.70	4.00	Horizontal	120k	0.10	-18.66
200.9908	8.50	33.06	-24.56	148.10	1.31	Vertical	120k	0.10	-19.68
843.9394	17.27	35.56	-18.29	82.80	4.00	Vertical	120k	0.10	-7.34

Tx Mid Channel (2440 MHz), DUT18 on its back, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 9:08:27 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #52_RE 1 to 3 GHz_Tx Mid CH 2440MHz_EUT on back_DUT 18_Used PRE12

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1375.686	48.09	74.00	-25.91	0.00	3.05	Horizontal	1M	1.00	2.31
1437.357	47.68	74.00	-26.32	231.00	3.05	Vertical	1M	1.00	2.32
1667.081	48.03	74.00	-25.97	360.00	1.98	Vertical	1M	1.00	2.73
1892.134	50.60	74.00	-23.4	152.30	2.51	Horizontal	1M	1.00	5.39
2766.336	51.72	74.00	-22.28	191.20	3.58	Vertical	1M	1.00	7.12
2859.274	51.54	74.00	-22.46	360.00	4.00	Vertical	1M	1.00	7.01

AVG (PASS) (6)

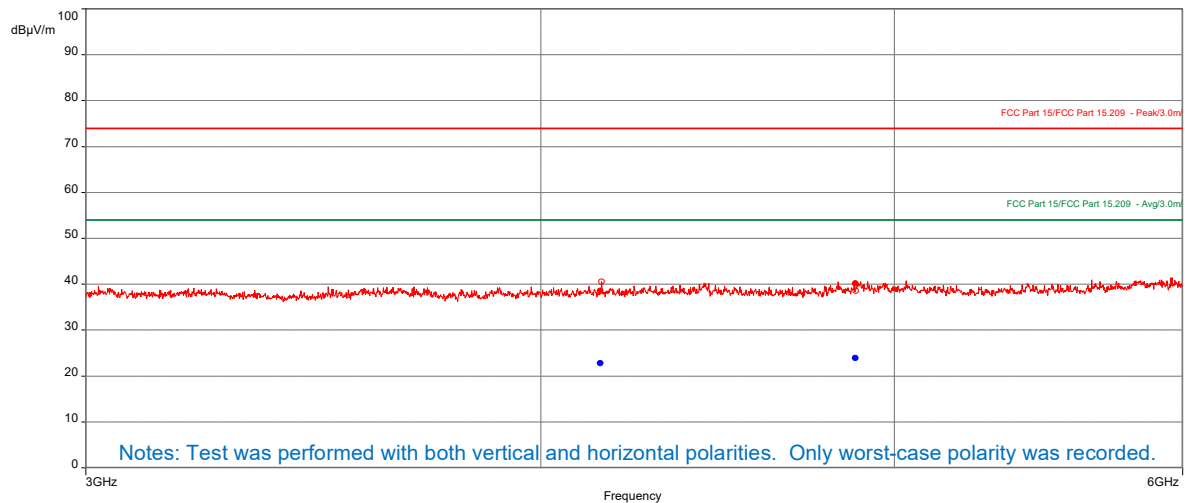
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1375.686	34.38	54.00	-19.62	0.00	3.05	Horizontal	1M	1.00	2.31
1437.357	34.36	54.00	-19.64	231.00	3.05	Vertical	1M	1.00	2.32
1667.081	34.35	54.00	-19.65	360.00	1.98	Vertical	1M	1.00	2.73
1892.134	36.88	54.00	-17.12	152.30	2.51	Horizontal	1M	1.00	5.39
2766.336	38.03	54.00	-15.97	191.20	3.58	Vertical	1M	1.00	7.12
2859.274	37.84	54.00	-16.16	360.00	4.00	Vertical	1M	1.00	7.01

Note: A big signal was the fundamental emissions.

Tx Mid Channel (2440 MHz), DUT18 on its back, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 9:05:11 AM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #31_RE 3 to 6 GHz_Tx Mid CH 2440 MHz_EUT on back_DUT 18_Used BON001

Graph:**Results:****Peak (PASS) (2)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4152.858	38.59	74.00	-35.41	52.60	3.26	Vertical	1M	-10.96
4879.09	40.21	74.00	-33.79	0.00	1.69	Vertical	1M	-9.48

AVG (PASS) (2)

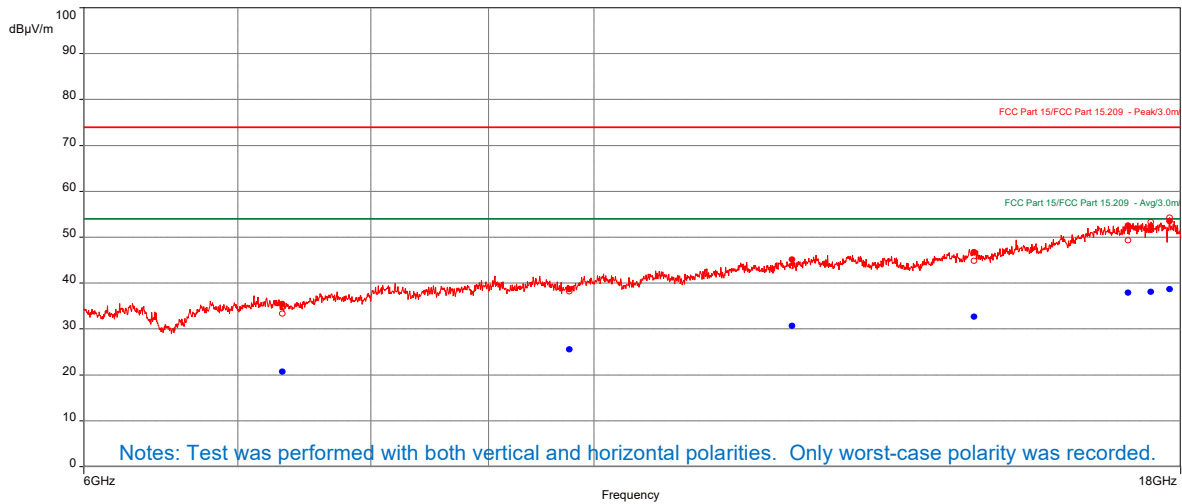
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4152.858	22.79	54.00	-31.21	52.60	3.26	Vertical	1M	-10.96
4879.09	23.95	54.00	-30.05	0.00	1.69	Vertical	1M	-9.48

Tx Mid Channel (2440 MHz), DUT18 on its back, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 11:48:43 AM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #36_RE 6 to 18 GHz_Tx Mid CH 2440 MHz_EUT on back_DUT 18_Used BON001

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7320.449	35.45	74.00	-38.55	0.00	1.00	Horizontal	1M	-5.49
9758.915	38.72	74.00	-35.28	0.00	1.00	Vertical	1M	-2.34
12197.269	45.17	74.00	-28.83	0.00	4.00	Horizontal	1M	1.67
14637.793	46.79	74.00	-27.21	212.50	4.00	Vertical	1M	3.70
17079.888	52.59	74.00	-21.41	212.50	3.94	Horizontal	1M	8.17
17475.35	52.37	74.00	-21.63	212.60	3.94	Horizontal	1M	8.23
17801.287	53.55	74.00	-20.45	0.00	3.94	Horizontal	1M	8.67

AVG (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7320.449	20.72	54.00	-33.28	0.00	1.00	Horizontal	1M	-5.49
9758.915	25.59	54.00	-28.41	0.00	1.00	Vertical	1M	-2.34
12197.269	30.73	54.00	-23.27	0.00	4.00	Horizontal	1M	1.67
14637.793	32.66	54.00	-21.34	212.50	4.00	Vertical	1M	3.70
17079.888	37.94	54.00	-16.06	212.50	3.94	Horizontal	1M	8.17
17475.35	38.10	54.00	-15.90	212.60	3.94	Horizontal	1M	8.23
17801.287	38.67	54.00	-15.33	0.00	3.94	Horizontal	1M	8.67

Tx Mid Channel (2440 MHz), DUT18 on all three axis, RE 18-25 GHz



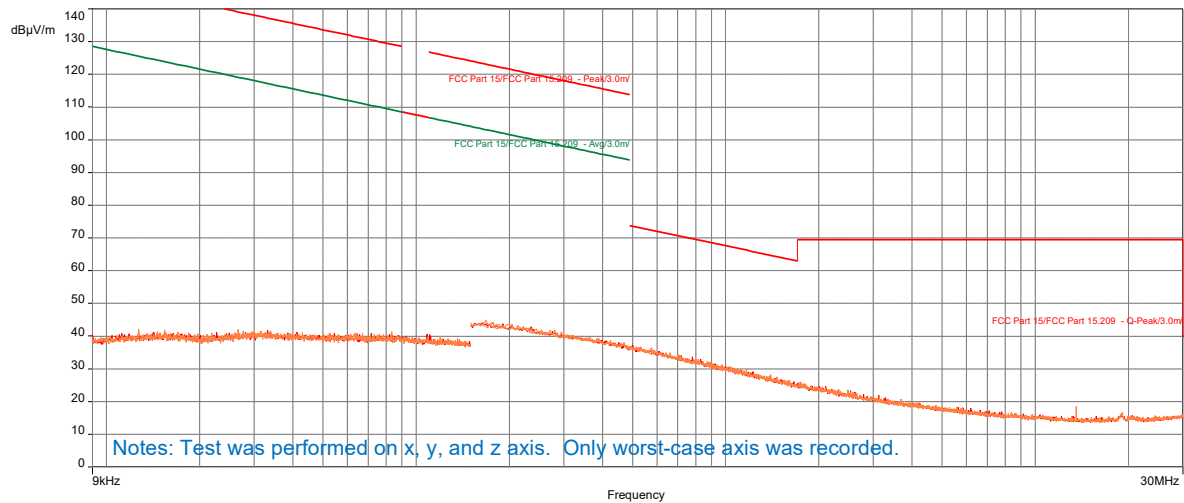
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Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx Mid Channel (2440 MHz), DUT18 on its short side, RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 5:55:58 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #22_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209) Tx Mid CH 2440 MHz_EUT on short side_DUT 18

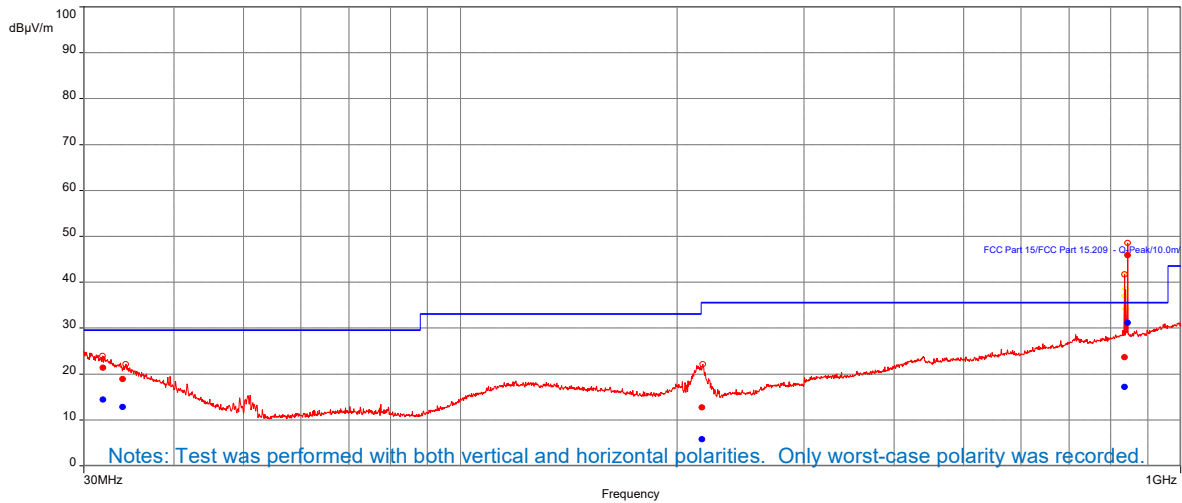
Graph:**Results:** No emission was detected.

Tx Mid Channel (2440 MHz), DUT18 on its short side, RE 30-1000 MHz

Test Information:

Date and Time	12/9/2024 10:34:36 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #7_ RE 30-1000MHz_ Battery power_ Tx Mid CH 2440 MHz_ EUT on short side_ DUT 18

Graph:



Results:

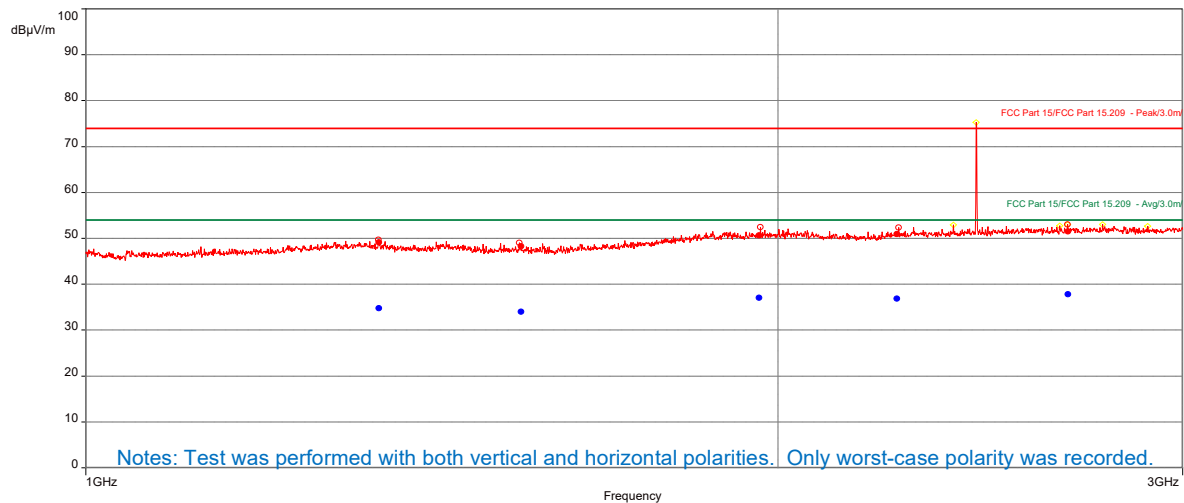
QuasiPeak (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
31.9228	14.44	29.54	-15.10	245.90	4.00	Vertical	120k	0.10	-13.82
33.9774	12.84	29.54	-16.70	159.00	4.00	Vertical	120k	0.10	-15.43
216.6414	5.78	35.56	-29.78	99.20	1.31	Vertical	120k	0.10	-21.52
835.6074	17.25	35.56	-18.31	197.00	4.00	Horizontal	120k	0.10	-7.47
844.0918	31.21	35.56	-4.35	235.00	4.00	Horizontal	120k	0.10	-7.34

Tx Mid Channel (2440 MHz), DUT18 on its short side, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 9:37:05 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #53_RE 1 to 3 GHz_Tx Mid CH 2440MHz_EUT on short_DUT 18_Used PRE12

Graph:**Results:**

Peak (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1341.298	49.12	74.00	-24.88	0.00	1.44	Vertical	1M	1.00	2.66
1546.456	48.27	74.00	-25.73	231.10	4.00	Vertical	1M	1.00	2.09
1962.395	50.70	74.00	-23.3	191.90	3.05	Horizontal	1M	1.00	5.74
2253.111	50.91	74.00	-23.09	35.00	3.05	Vertical	1M	1.00	5.69
2674.597	51.51	74.00	-22.49	0.00	1.44	Horizontal	1M	1.00	6.89

AVG (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1341.298	34.81	54.00	-19.19	0.00	1.44	Vertical	1M	1.00	2.66
1546.456	34.02	54.00	-19.98	231.10	4.00	Vertical	1M	1.00	2.09
1962.395	37.10	54.00	-16.90	191.90	3.05	Horizontal	1M	1.00	5.74
2253.111	36.87	54.00	-17.13	35.00	3.05	Vertical	1M	1.00	5.69
2674.597	37.84	54.00	-16.16	0.00	1.44	Horizontal	1M	1.00	6.89

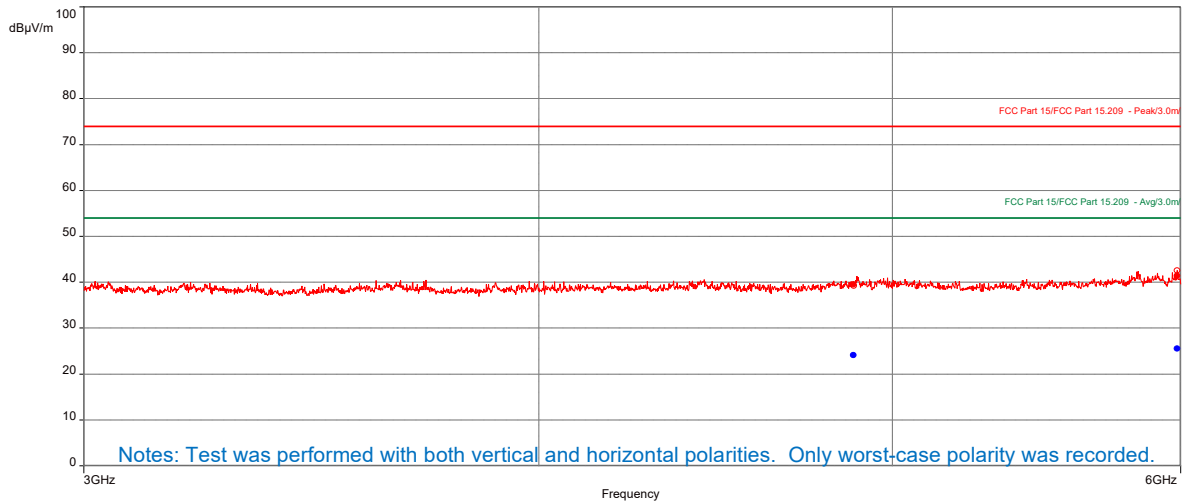
Note: A big signal was the fundamental emissions.

Tx Mid Channel (2440 MHz), DUT18 on its short side, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 9:22:19 AM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #32_RE 3 to 6 GHz_Tx Mid CH 2440 MHz_EUT on short side_DUT 18_Used BON001

Graph:



Results:

Peak (PASS) (2)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4879.214	39.57	74.00	-34.43	223.10	1.69	Vertical	1M	-9.48
5987.462	41.42	74.00	-32.58	280.50	4.00	Vertical	1M	-7.50

AVG (PASS) (2)

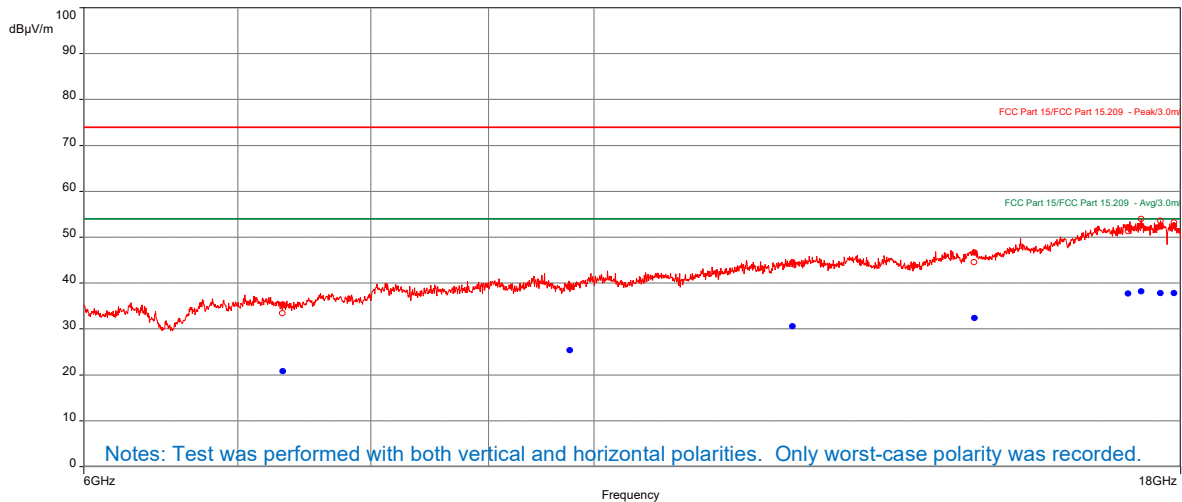
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4879.214	24.19	54.00	-29.81	223.10	1.69	Vertical	1M	-9.48
5987.462	25.59	54.00	-28.41	280.50	4.00	Vertical	1M	-7.50

Tx Mid Channel (2440 MHz), DUT18 on its short side, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 10:43:53 AM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #35_RE 6 to 18 GHz_Tx Mid CH 2440 MHz_EUT on short side_DUT 18_Used BON001

Graph:



Results:

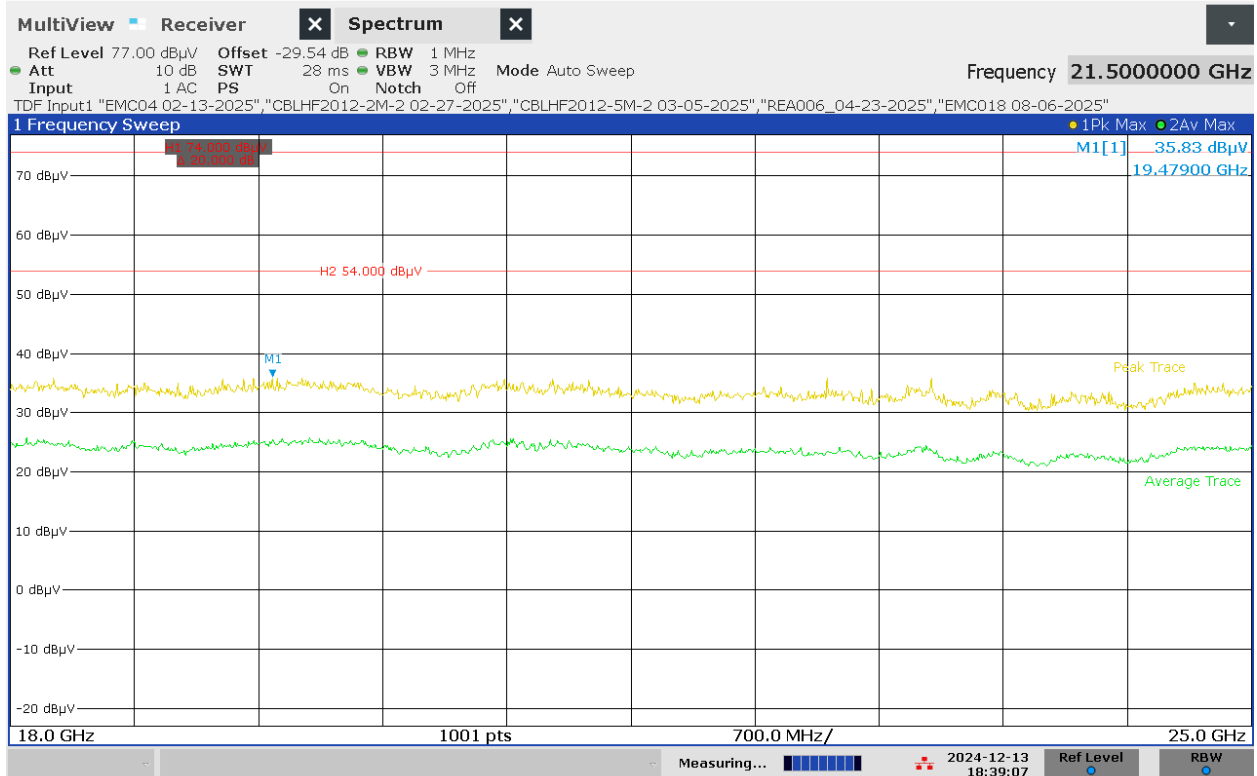
Peak (PASS) (8)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7323.167	35.39	74.00	-38.61	360.00	3.94	Horizontal	1M	-5.48
9761.147	39.36	74.00	-34.64	360.00	1.00	Horizontal	1M	-2.34
12203.878	44.49	74.00	-29.51	0.00	3.94	Horizontal	1M	1.68
14641.87	46.71	74.00	-27.29	212.30	4.00	Vertical	1M	3.71
17077.307	52.24	74.00	-21.76	360.00	4.00	Horizontal	1M	8.17
17303.745	52.56	74.00	-21.44	0.00	3.94	Vertical	1M	8.15
17642.808	52.51	74.00	-21.49	360.00	3.94	Horizontal	1M	8.43
17880.724	52.60	74.00	-21.40	0.00	1.00	Vertical	1M	8.77

AVG (PASS) (8)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7323.167	20.80	54.00	-33.20	360.00	3.94	Horizontal	1M	-5.48
9761.147	25.43	54.00	-28.57	360.00	1.00	Horizontal	1M	-2.34
12203.878	30.64	54.00	-23.36	0.00	3.94	Horizontal	1M	1.68
14641.87	32.46	54.00	-21.54	212.30	4.00	Vertical	1M	3.71
17077.307	37.73	54.00	-16.27	360.00	4.00	Horizontal	1M	8.17
17303.745	38.18	54.00	-15.82	0.00	3.94	Vertical	1M	8.15
17642.808	37.87	54.00	-16.13	360.00	3.94	Horizontal	1M	8.43
17880.724	37.85	54.00	-16.15	0.00	1.00	Vertical	1M	8.77

Tx Mid Channel (2440 MHz), DU18 on all three axis, RE 18-25 GHz



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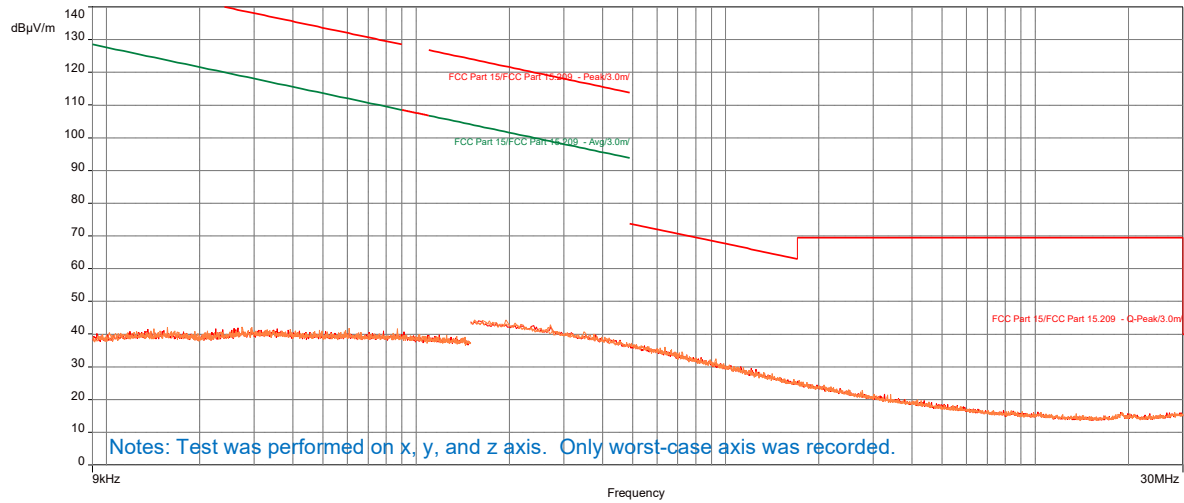
Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx Mid Channel (2440 MHz), DUT18 on its long side, RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 5:48:07 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #21_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)_Tx Mid CH 2440 MHz_EUT on long side_DUT 18

Graph:



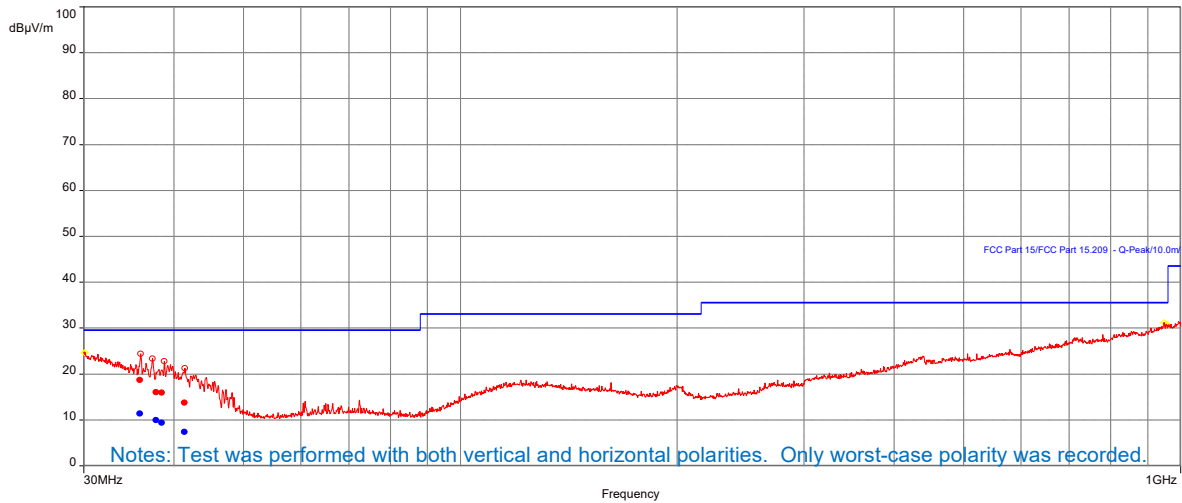
Results: No emission was detected on all three axis.

Tx Mid Channel (2440 MHz), DUT18 on its long side, RE 30-1000 MHz

Test Information:

Date and Time	12/9/2024 10:09:29 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #6_ RE 30-1000MHz_ Battery power_ Tx Mid CH 2440 MHz_ EUT on long side_ DUT 18

Graph:



Results:

QuasiPeak (PASS) (4)

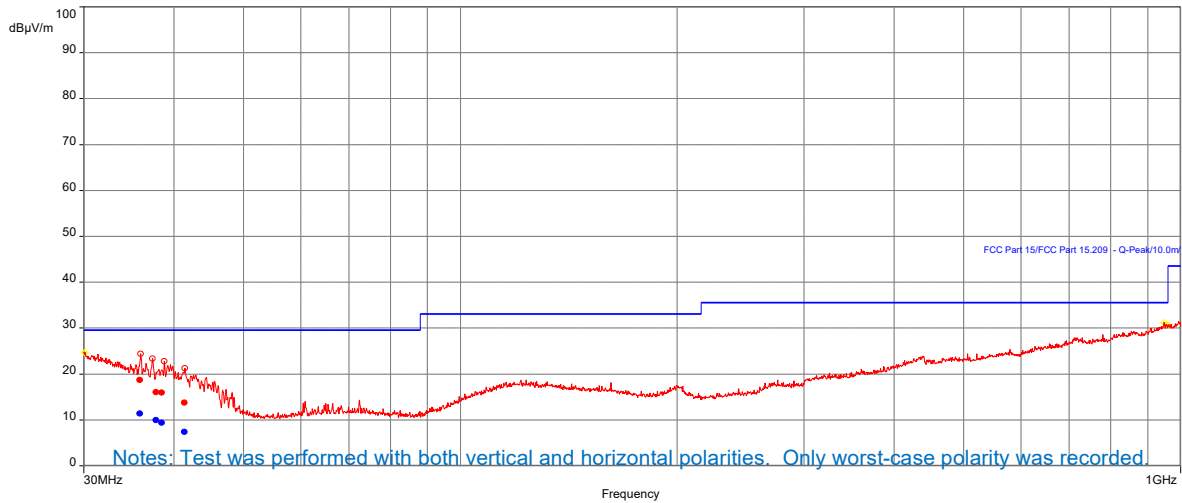
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
35.8758	11.41	29.54	-18.13	145.40	3.04	Vertical	120k	0.10	-16.72
37.7989	9.95	29.54	-19.59	355.00	2.45	Vertical	120k	0.10	-18.11
38.4654	9.40	29.54	-20.14	159.00	3.64	Vertical	120k	0.10	-18.58
41.3837	7.40	29.54	-22.14	224.10	1.70	Vertical	120k	0.10	-20.68

Tx Mid Channel (2440 MHz), DUT18 on its long side, RE 30-1000 MHz

Test Information:

Date and Time	12/9/2024 10:09:29 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #6_ RE 30-1000MHz_ Battery power_ Tx Mid CH 2440 MHz_ EUT on long side_ DUT 18

Graph:



Results:

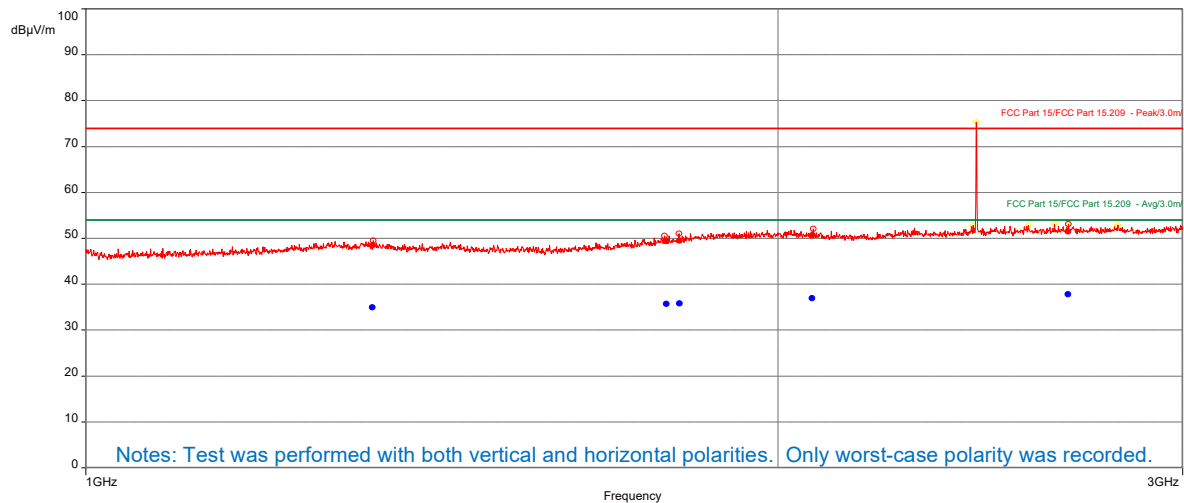
QuasiPeak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
35.8758	11.41	29.54	-18.13	145.40	3.04	Vertical	120k	0.10	-16.72
37.7989	9.95	29.54	-19.59	355.00	2.45	Vertical	120k	0.10	-18.11
38.4654	9.40	29.54	-20.14	159.00	3.64	Vertical	120k	0.10	-18.58
41.3837	7.40	29.54	-22.14	224.10	1.70	Vertical	120k	0.10	-20.68

Tx Mid Channel (2440 MHz), DUT18 on its long side, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 8:43:48 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #51_RE 1 to 3 GHz_Tx Mid CH 2440MHz_EUT on long side_DUT 18_Used PRE12

Graph:**Results:****Peak (PASS) (5)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1332.34	48.46	74.00	-25.54	270.00	1.00	Vertical	1M	1.00	2.71
1788.967	49.44	74.00	-24.56	270.00	2.51	Horizontal	1M	1.00	4.18
1812.562	49.50	74.00	-24.5	34.90	3.58	Horizontal	1M	1.00	4.38
2070.119	50.70	74.00	-23.3	230.70	3.05	Vertical	1M	1.00	5.80
2675.338	51.49	74.00	-22.51	347.80	3.05	Vertical	1M	1.00	6.90

AVG (PASS) (5)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1332.34	34.96	54.00	-19.04	270.00	1.00	Vertical	1M	1.00	2.71
1788.967	35.78	54.00	-18.22	270.00	2.51	Horizontal	1M	1.00	4.18
1812.562	35.86	54.00	-18.14	34.90	3.58	Horizontal	1M	1.00	4.38
2070.119	36.97	54.00	-17.03	230.70	3.05	Vertical	1M	1.00	5.80
2675.338	37.88	54.00	-16.12	347.80	3.05	Vertical	1M	1.00	6.90

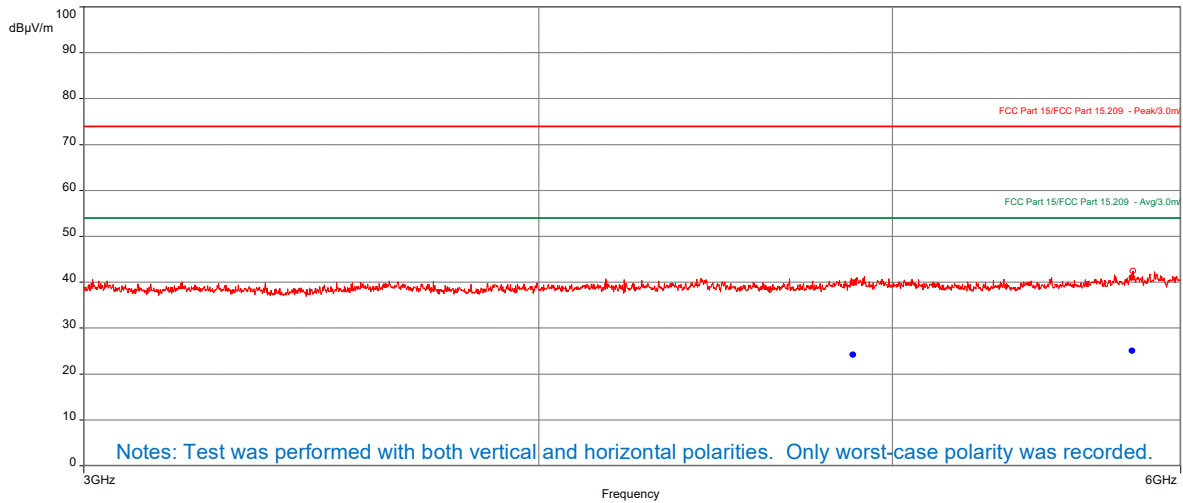
Note: A big signal was the fundamental emissions.

Tx Mid Channel (2440 MHz), DUT18 on its long side, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 9:37:17 AM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #33_RE 3 to 6 GHz_Tx Mid CH 2440 MHz_EUT on long side_DUT 18_Used BON001

Graph:



Results:

Peak (PASS) (2)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4878.068	39.96	74.00	-34.04	223.20	3.26	Horizontal	1M	-9.48
5819.219	41.07	74.00	-32.93	52.90	1.00	Horizontal	1M	-8.01

AVG (PASS) (2)

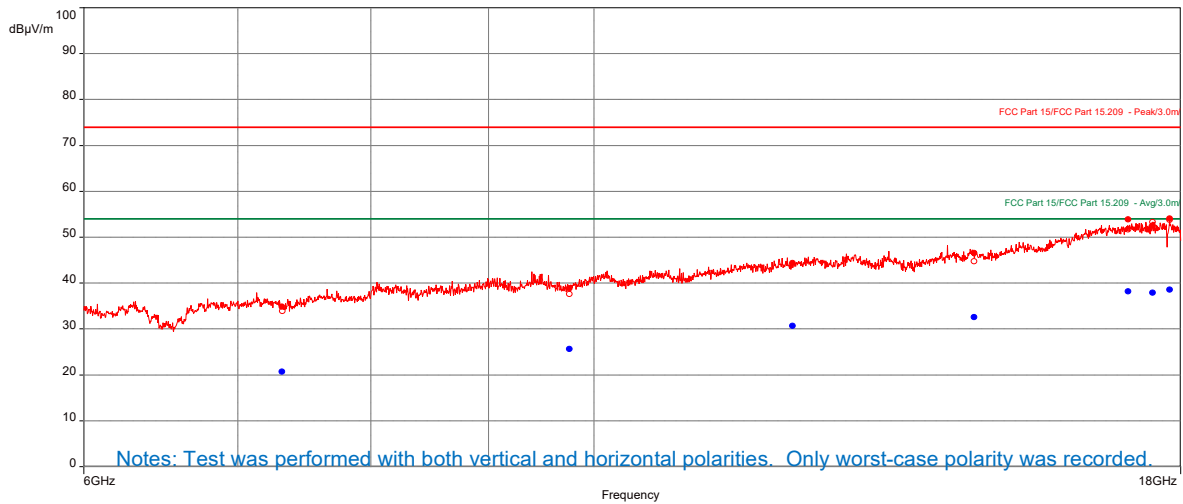
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4878.068	24.25	54.00	-29.75	223.20	3.26	Horizontal	1M	-9.48
5819.219	25.15	54.00	-28.85	52.90	1.00	Horizontal	1M	-8.01

Tx Mid Channel (2440 MHz), DUT18 on its long side, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 9:55:19 AM
Client and Project Number	Insulet_G105948073
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #34_RE 6 to 18 GHz_Tx Mid CH 2440 MHz_EUT on long side_DUT 18_Used BON001

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7317.419	34.93	74.00	-39.07	0.00	1.00	Horizontal	1M	-5.49
9760.498	38.92	74.00	-35.08	360.00	3.94	Horizontal	1M	-2.34
12200.848	44.39	74.00	-29.61	212.60	3.94	Vertical	1M	1.68
14637.98	46.57	74.00	-27.43	0.00	3.94	Vertical	1M	3.70
17080.935	53.88	74.00	-20.12	360.00	4.00	Vertical	1M	8.17
17501.778	52.56	74.00	-21.44	0.00	1.00	Horizontal	1M	8.26
17801.625	54.07	74.00	-19.93	360.00	4.00	Vertical	1M	8.67

AVG (PASS) (7)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
7317.419	20.75	54.00	-33.25	0.00	1.00	Horizontal	1M	-5.49
9760.498	25.66	54.00	-28.34	360.00	3.94	Horizontal	1M	-2.34
12200.848	30.68	54.00	-23.32	212.60	3.94	Vertical	1M	1.68
14637.98	32.61	54.00	-21.39	0.00	3.94	Vertical	1M	3.70
17080.935	38.20	54.00	-15.80	360.00	4.00	Vertical	1M	8.17
17501.778	37.97	54.00	-16.03	0.00	1.00	Horizontal	1M	8.26
17801.625	38.64	54.00	-15.36	360.00	4.00	Vertical	1M	8.67

Tx Mid Channel (2440 MHz), DUT18 on all three axis, RE 18-25 GHz



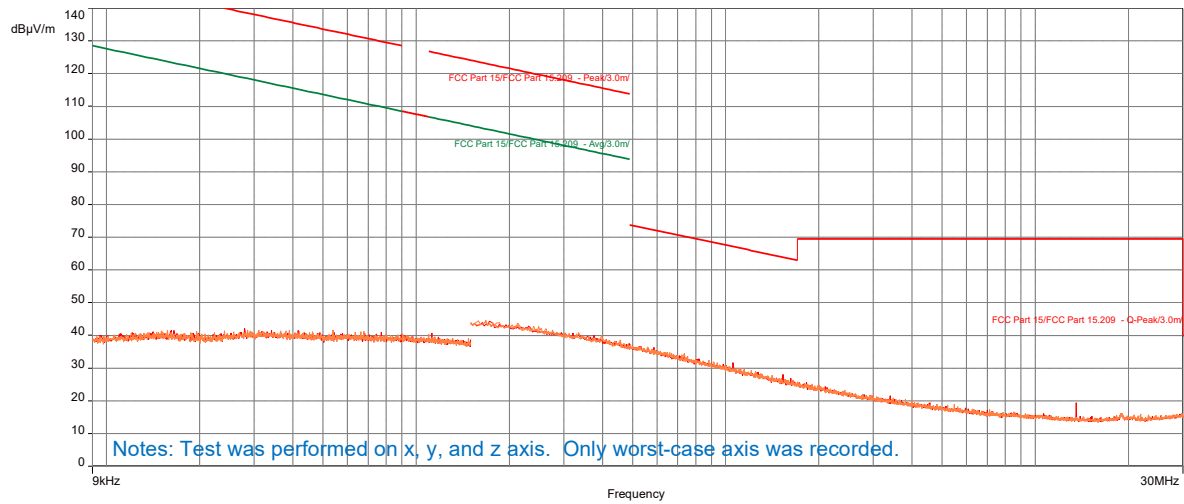
06:39:07 PM 12/13/2024

Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx High Channel (2480 MHz), DUT20 on its back, 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 6:06:52 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #23_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209) Tx High CH 2480 MHz_EUT on back_DUT 20

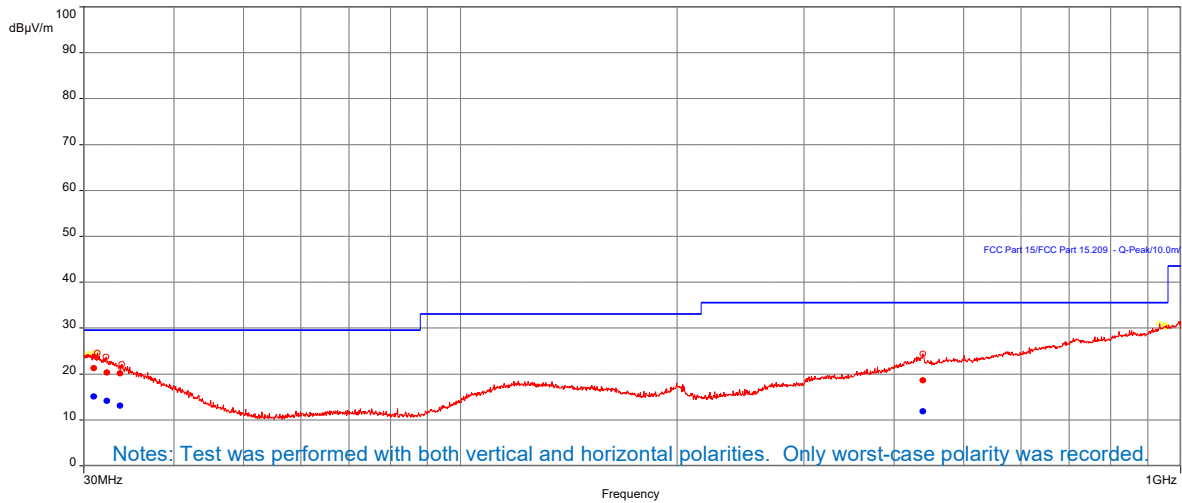
Graph:**Results:** No emission was detected.

Tx High Channel (2480 MHz), DUT19 on its back, 30-1000 MHz

Test Information:

Date and Time	12/10/2024 5:42:15 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	26 %
Atmospheric Pressure	1011 mbars
Comments	Scan #8_ RE 30-1000MHz_ Battery power_ Tx High CH 2480 MHz_ EUT on back_ DUT 19

Graph:



Results:

QuasiPeak (PASS) (4)

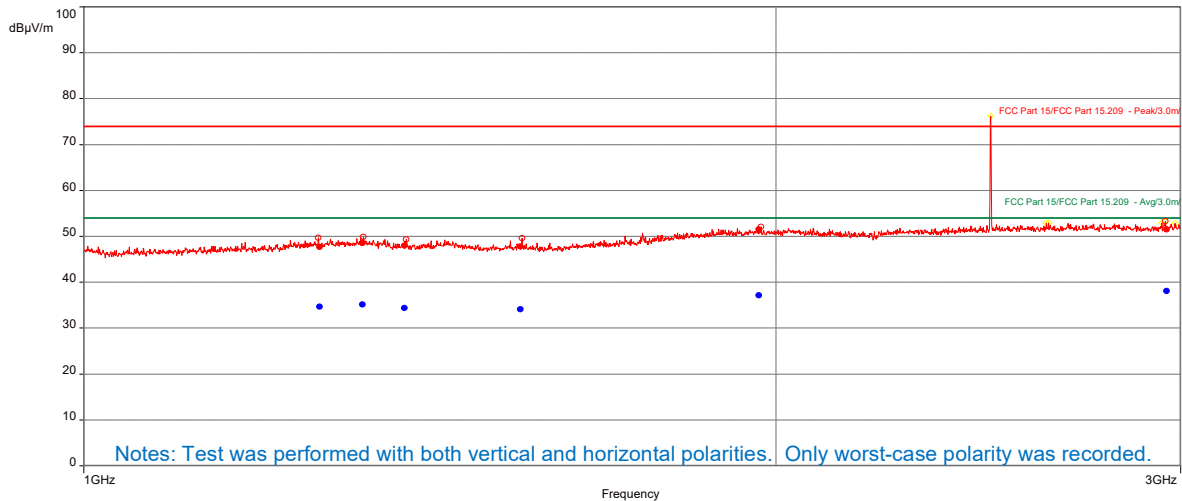
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
30.9908	15.14	29.54	-14.40	17.30	1.92	Horizontal	120k	0.10	-13.29
32.3248	14.18	29.54	-15.36	12.00	2.83	Horizontal	120k	0.10	-14.14
33.6935	13.11	29.54	-16.43	164.50	1.62	Horizontal	120k	0.10	-15.23
438.6327	11.86	35.56	-23.70	202.30	4.00	Vertical	120k	0.10	-14.64

Tx High Channel (2480 MHz), DUT20 on its back, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 6:59:07 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #47_RE 1 to 3 GHz_Tx High CH 2480 MHz_EUT on back_DUT 20_Used PRE12

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1266.234	47.69	74.00	-26.31	34.90	2.51	Vertical	1M	1.00	2.44
1321.852	48.57	74.00	-25.43	348.80	4.00	Vertical	1M	1.00	2.76
1378.793	48.04	74.00	-25.96	74.20	3.58	Horizontal	1M	1.00	2.28
1548.743	47.81	74.00	-26.19	34.90	2.51	Vertical	1M	1.00	2.07
1966.76	51.49	74.00	-22.51	309.40	1.98	Horizontal	1M	1.00	5.78
2957.666	51.55	74.00	-22.45	113.40	1.00	Vertical	1M	1.00	7.28

AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1266.234	34.75	54.00	-19.25	34.90	2.51	Vertical	1M	1.00	2.44
1321.852	35.21	54.00	-18.79	348.80	4.00	Vertical	1M	1.00	2.76
1378.793	34.43	54.00	-19.57	74.20	3.58	Horizontal	1M	1.00	2.28
1548.743	34.11	54.00	-19.89	34.90	2.51	Vertical	1M	1.00	2.07
1966.76	37.18	54.00	-16.82	309.40	1.98	Horizontal	1M	1.00	5.78
2957.666	38.14	54.00	-15.86	113.40	1.00	Vertical	1M	1.00	7.28

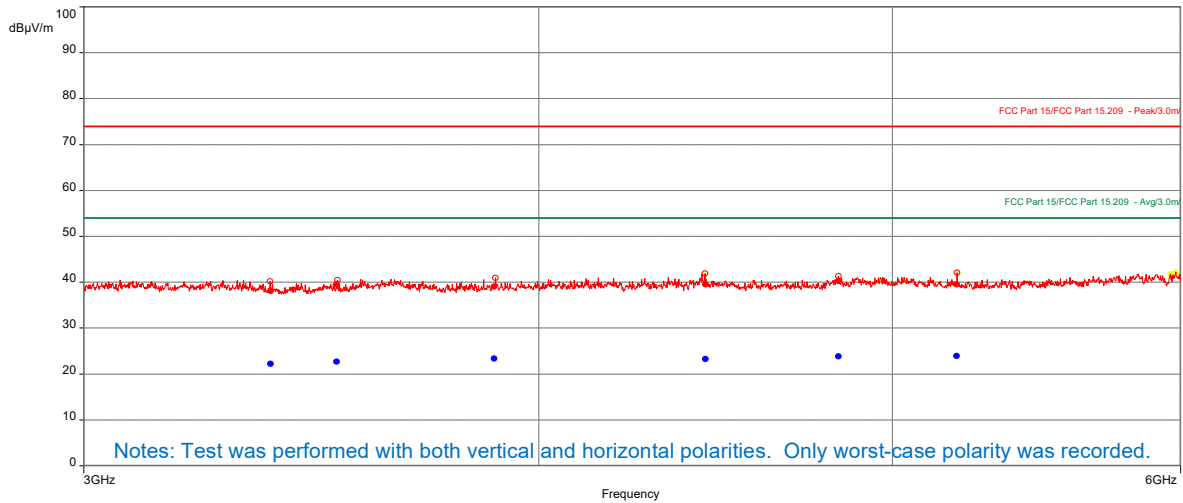
Note: A big signal was the fundamental emissions.

Tx High Channel (2480 MHz), DUT20 on its back, RE 3-6 GHz

Test Information:

Date and Time	12/12/2024 3:56:04 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #43_RE 3 to 6 GHz_Tx High CH 2480 MHz_EUT on back_DUT 20_Used BON001

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3376.147	38.15	74.00	-35.85	166.30	2.48	Vertical	1M	1.00	-12.54
3519.693	39.51	74.00	-34.49	223.60	2.47	Horizontal	1M	1.00	-12.17
3888.831	39.04	74.00	-34.96	109.50	4.00	Horizontal	1M	1.00	-11.11
4444.095	39.54	74.00	-34.46	166.50	4.00	Horizontal	1M	1.00	-10.34
4833.897	40.30	74.00	-33.70	52.70	1.00	Horizontal	1M	1.00	-9.55
5207.854	39.59	74.00	-34.41	337.00	1.69	Vertical	1M	1.00	-8.95

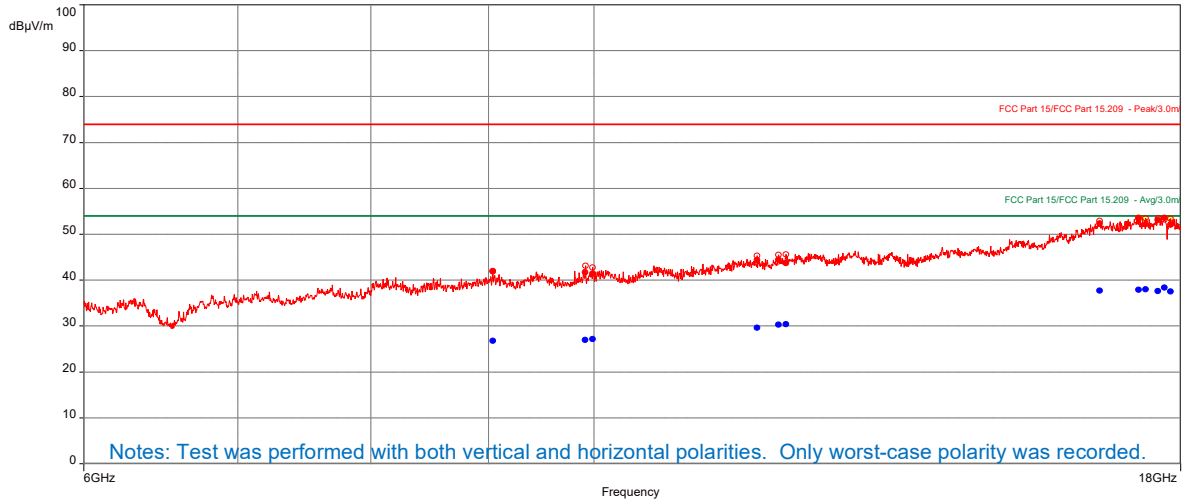
AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3376.147	22.21	54.00	-31.79	166.30	2.48	Vertical	1M	1.00	-12.54
3519.693	22.76	54.00	-31.24	223.60	2.47	Horizontal	1M	1.00	-12.17
3888.831	23.39	54.00	-30.61	109.50	4.00	Horizontal	1M	1.00	-11.11
4444.095	23.27	54.00	-30.73	166.50	4.00	Horizontal	1M	1.00	-10.34
4833.897	23.90	54.00	-30.10	52.70	1.00	Horizontal	1M	1.00	-9.55
5207.854	23.93	54.00	-30.07	337.00	1.69	Vertical	1M	1.00	-8.95

Tx High Channel (2480 MHz), DUT20 on its back, RE 6-18 GHz

Test Information:

Date and Time	12/12/2024 4:39:01 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #44_RE 6 to 18 GHz_Tx High CH 2480 MHz_EUT on back_DUT 20_Used BON001

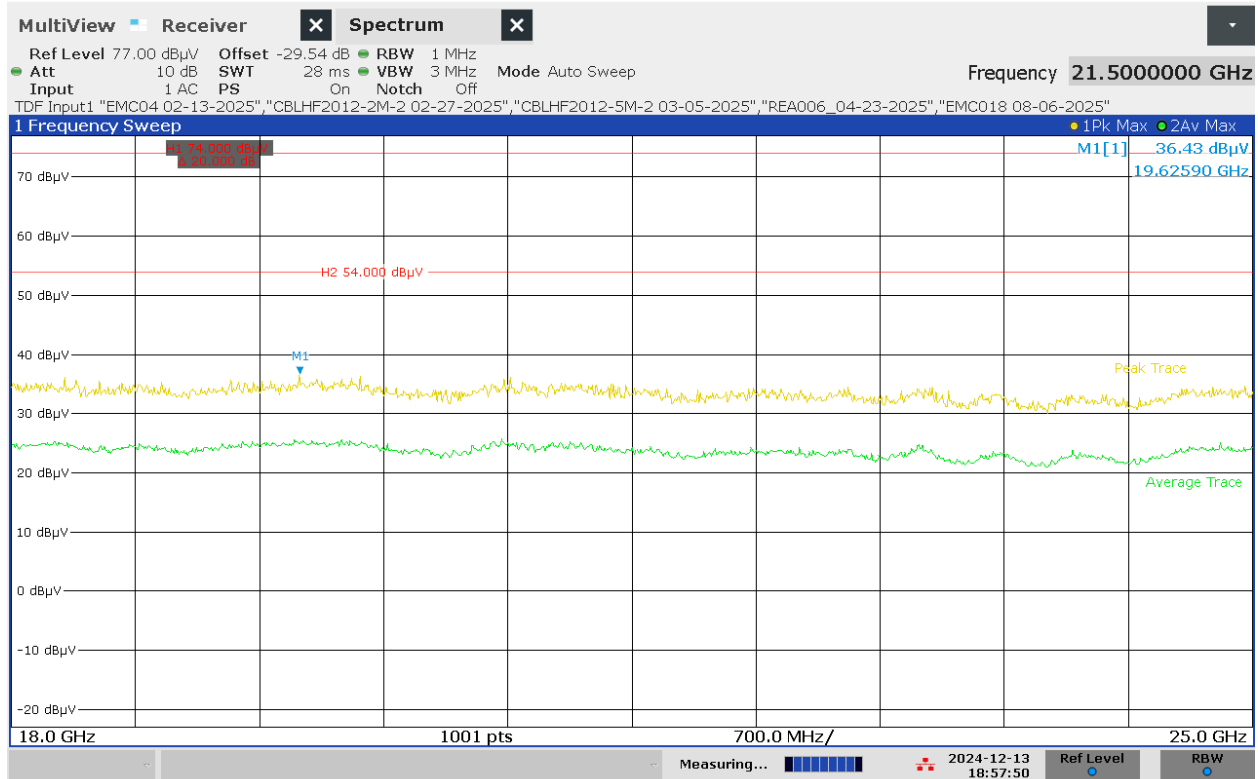
Graph:**Results:****Peak (PASS) (12)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9039.638	41.94	74.00	-32.06	0.00	3.94	Vertical	1M	1.00	-3.53
9916.28	41.75	74.00	-32.25	0.00	1.00	Vertical	1M	1.00	-2.19
9989.337	41.48	74.00	-32.52	360.00	1.00	Horizontal	1M	1.00	-2.16
11777.806	44.44	74.00	-29.56	0.00	4.00	Vertical	1M	1.00	1.24
12034.525	44.54	74.00	-29.46	212.40	3.94	Horizontal	1M	1.00	1.47
12124.038	43.69	74.00	-30.31	0.00	4.00	Vertical	1M	1.00	1.59
16597.761	52.42	74.00	-21.58	212.30	1.00	Horizontal	1M	1.00	7.54
17262.275	53.41	74.00	-20.59	360.00	3.94	Vertical	1M	1.00	8.20
17381.437	52.17	74.00	-21.83	212.40	1.00	Vertical	1M	1.00	8.14
17597.733	53.16	74.00	-20.84	212.50	4.00	Vertical	1M	1.00	8.33
17713.6	53.66	74.00	-20.34	212.50	1.00	Vertical	1M	1.00	8.57
17820.564	52.12	74.00	-21.88	360.00	1.00	Horizontal	1M	1.00	8.69

AVG (PASS) (12)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9039.638	26.77	54.00	-27.23	0.00	3.94	Vertical	1M	1.00	-3.53
9916.28	26.99	54.00	-27.01	0.00	1.00	Vertical	1M	1.00	-2.19
9989.337	27.17	54.00	-26.83	360.00	1.00	Horizontal	1M	1.00	-2.16
11777.806	29.70	54.00	-24.30	0.00	4.00	Vertical	1M	1.00	1.24
12034.525	30.36	54.00	-23.64	212.40	3.94	Horizontal	1M	1.00	1.47
12124.038	30.42	54.00	-23.58	0.00	4.00	Vertical	1M	1.00	1.59
16597.761	37.75	54.00	-16.25	212.30	1.00	Horizontal	1M	1.00	7.54
17262.275	37.94	54.00	-16.06	360.00	3.94	Vertical	1M	1.00	8.20
17381.437	37.99	54.00	-16.01	212.40	1.00	Vertical	1M	1.00	8.14
17597.733	37.65	54.00	-16.35	212.50	4.00	Vertical	1M	1.00	8.33
17713.6	38.42	54.00	-15.58	212.50	1.00	Vertical	1M	1.00	8.57
17820.564	37.59	54.00	-16.41	360.00	1.00	Horizontal	1M	1.00	8.69

Tx High Channel (2480 MHz), DUT20 on all three axis, RE 18-25 GHz



06:57:50 PM 12/13/2024

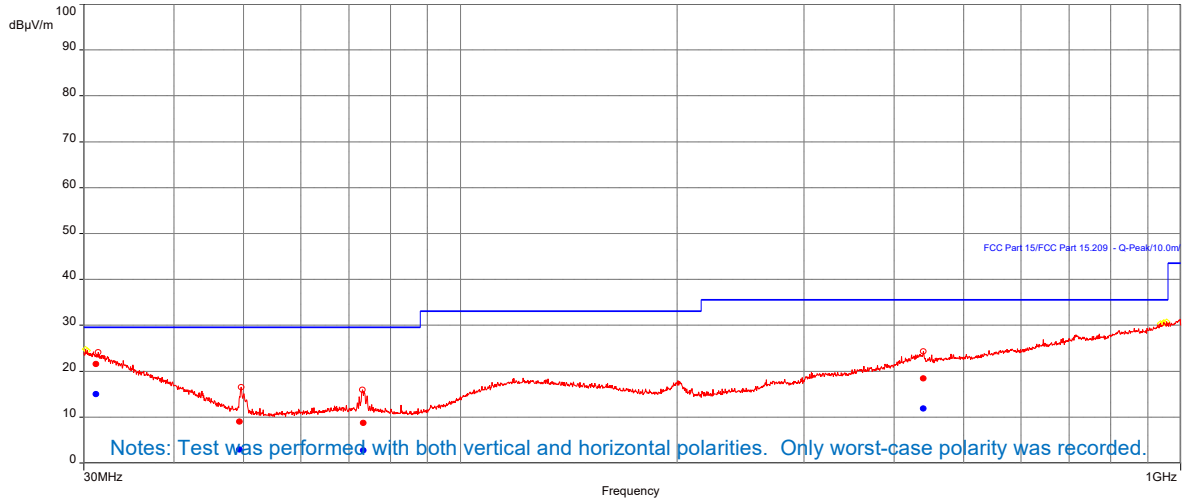
Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx High Channel (2480 MHz), DUT19 on its short side, RE 30-1000 MHz

Test Information:

Date and Time	12/10/2024 6:40:00 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	26 %
Atmospheric Pressure	1011 mbars
Comments	Scan #10_ RE 30-1000MHz_ Battery power_Tx High CH 2480 MHz_EUT on short side_DUT 19

Graph:



Results:

QuasiPeak (PASS) (4)

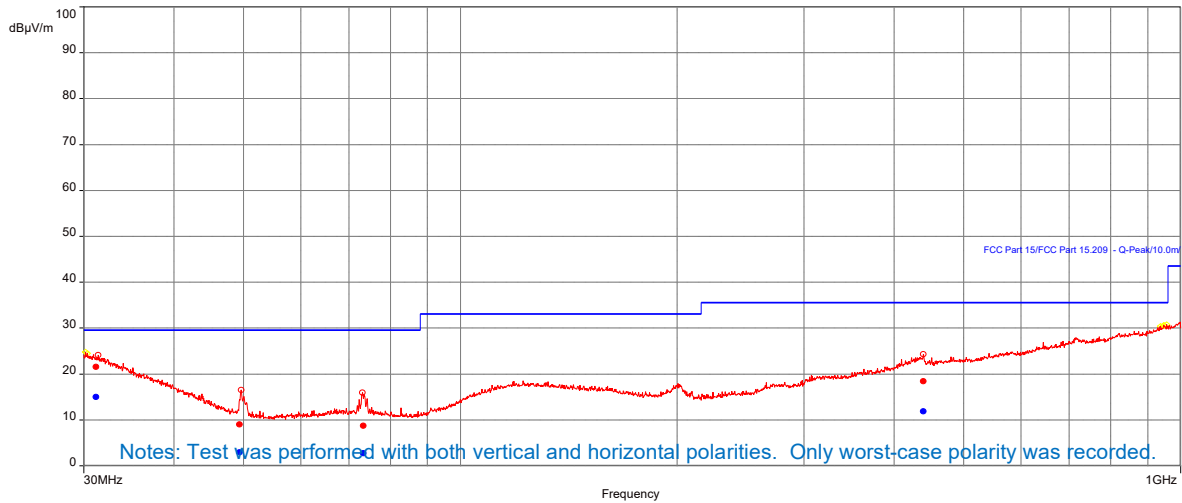
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
31.1961	15.01	29.54	-14.53	142.50	3.11	Horizontal	120k	0.10	-13.40
49.394	2.98	29.54	-26.56	17.70	3.73	Vertical	120k	0.10	-25.17
73.321	2.73	29.54	-26.81	294.80	2.42	Vertical	120k	0.10	-25.02
439.2576	11.86	35.56	-23.70	88.10	2.20	Vertical	120k	0.10	-14.64

Tx High Channel (2480 MHz), DUT19 on its short side, RE 30-1000 MHz

Test Information:

Date and Time	12/10/2024 6:40:00 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	26 %
Atmospheric Pressure	1011 mbars
Comments	Scan #10_ RE 30-1000MHz_ Battery power_Tx High CH 2480 MHz_ EUT on short side_ DUT 19

Graph:



Results:

QuasiPeak (PASS) (4)

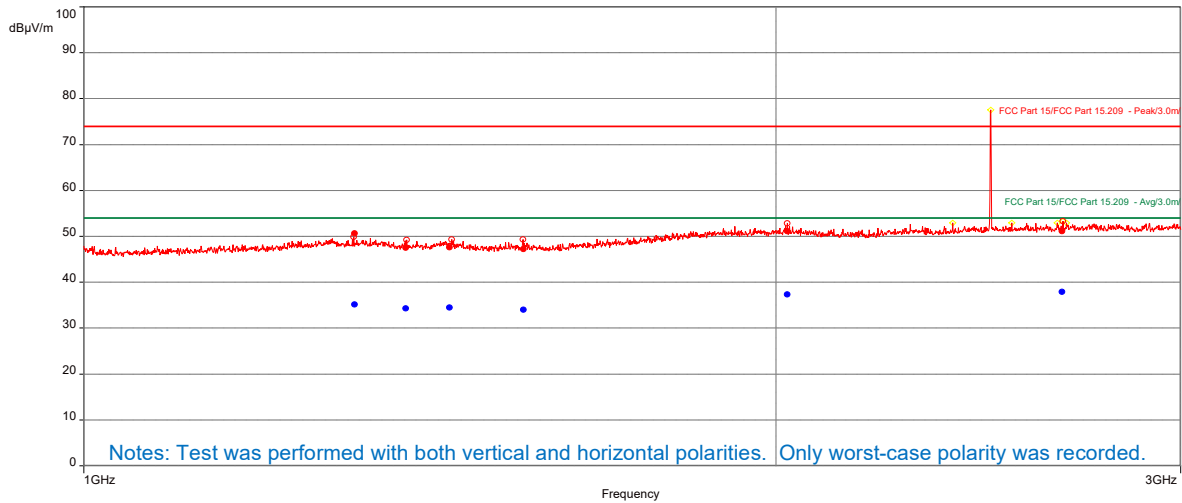
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
31.1961	15.01	29.54	-14.53	142.50	3.11	Horizontal	120k	0.10	-13.40
49.394	2.98	29.54	-26.56	17.70	3.73	Vertical	120k	0.10	-25.17
73.321	2.73	29.54	-26.81	294.80	2.42	Vertical	120k	0.10	-25.02
439.2576	11.86	35.56	-23.70	88.10	2.20	Vertical	120k	0.10	-14.64

Tx High Channel (2480 MHz), DUT20 on its short side, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 6:31:33 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #46_RE 1 to 3 GHz_Tx High CH 2480 MHz_EUT on short side_DUT 20_Used PRE12

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1311.797	50.64	74.00	-23.36	270.10	1.98	Vertical	1M	1.00	2.80
1380.391	47.58	74.00	-26.42	35.10	4.00	Horizontal	1M	1.00	2.26
1442.507	47.64	74.00	-26.36	191.80	1.44	Vertical	1M	1.00	2.30
1553.622	47.28	74.00	-26.72	0.00	1.44	Vertical	1M	1.00	2.05
2022.676	51.11	74.00	-22.89	113.40	1.98	Horizontal	1M	1.00	6.02
2664.516	51.14	74.00	-22.86	0.00	4.00	Vertical	1M	1.00	6.91

AVG (PASS) (6)

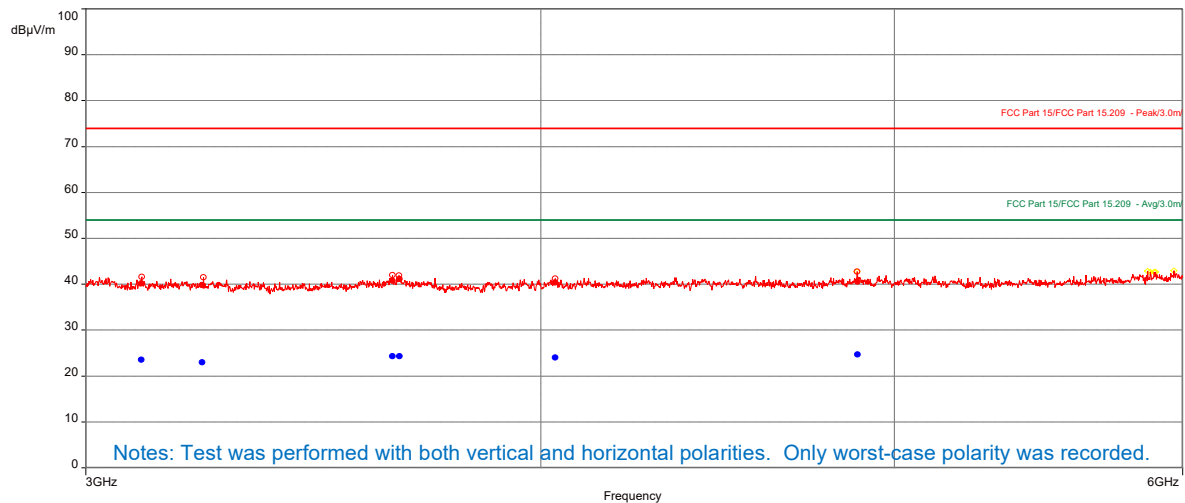
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1311.797	35.16	54.00	-18.84	270.10	1.98	Vertical	1M	1.00	2.80
1380.391	34.36	54.00	-19.64	35.10	4.00	Horizontal	1M	1.00	2.26
1442.507	34.50	54.00	-19.50	191.80	1.44	Vertical	1M	1.00	2.30
1553.622	34.02	54.00	-19.98	0.00	1.44	Vertical	1M	1.00	2.05
2022.676	37.41	54.00	-16.59	113.40	1.98	Horizontal	1M	1.00	6.02
2664.516	37.89	54.00	-16.11	0.00	4.00	Vertical	1M	1.00	6.91

Note: A big signal was the fundamental emissions.

Tx High Channel (2480 MHz), DUT20 on its short side, RE 3-6 GHz

Test Information:

Date and Time	12/11/2024 7:54:38 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #28_RE 3 to 6 GHz_Tx High CH 2480 MHz_EUT on short side_DUT 20_Used BON001

Graph:**Results:****Peak (PASS) (6)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3107.24	40.26	74.00	-33.74	280.30	3.26	Horizontal	1M	1.00	-12.64
3229.119	39.88	74.00	-34.12	223.40	3.26	Horizontal	1M	1.00	-12.66
3641.527	40.75	74.00	-33.25	0.00	1.00	Horizontal	1M	1.00	-11.75
3657.698	41.12	74.00	-32.88	0.00	3.26	Vertical	1M	1.00	-11.70
4036.413	40.41	74.00	-33.59	223.30	3.26	Vertical	1M	1.00	-11.03
4885.274	40.60	74.00	-33.40	360.00	1.69	Vertical	1M	1.00	-9.47

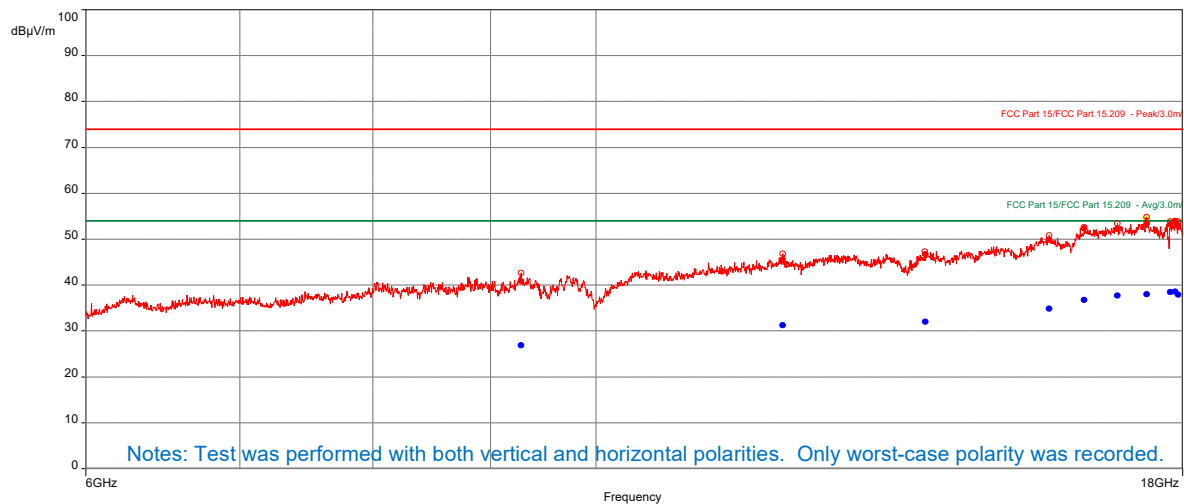
AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3107.24	23.54	54.00	-30.46	280.30	3.26	Horizontal	1M	1.00	-12.64
3229.119	23.01	54.00	-30.99	223.40	3.26	Horizontal	1M	1.00	-12.66
3641.527	24.32	54.00	-29.68	0.00	1.00	Horizontal	1M	1.00	-11.75
3657.698	24.31	54.00	-29.69	0.00	3.26	Vertical	1M	1.00	-11.70
4036.413	24.04	54.00	-29.96	223.30	3.26	Vertical	1M	1.00	-11.03
4885.274	24.69	54.00	-29.31	360.00	1.69	Vertical	1M	1.00	-9.47

Tx High Channel (2480 MHz), DUT20 on its short side, RE 6-18 GHz

Test Information:

Date and Time	12/11/2024 8:26:46 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #29_RE 6 to 18 GHz_Tx High CH 2480 MHz_EUT on short side_DUT 20 Used BON001

Graph:**Results:**

Peak (PASS) (10)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9277.702	40.87	74.00	-33.13	212.50	4.00	Horizontal	1M	1.00	-3.19
12057.667	45.57	74.00	-28.43	0.00	4.00	Horizontal	1M	1.00	1.51
13911.753	46.82	74.00	-27.18	0.00	1.00	Horizontal	1M	1.00	2.51
15751.034	49.95	74.00	-24.05	360.00	3.94	Vertical	1M	1.00	5.31
16311.406	52.42	74.00	-21.58	212.50	1.00	Horizontal	1M	1.00	6.58
16862.921	52.33	74.00	-21.67	360.00	3.94	Vertical	1M	1.00	8.15
17367.557	53.42	74.00	-20.58	0.00	1.00	Horizontal	1M	1.00	8.16
17779.908	53.25	74.00	-20.75	0.00	3.94	Horizontal	1M	1.00	8.65
17866.302	53.98	74.00	-20.02	212.40	3.94	Horizontal	1M	1.00	8.75
17923.083	52.89	74.00	-21.11	360.00	3.94	Vertical	1M	1.00	8.78

AVG (PASS) (10)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9277.702	26.87	54.00	-27.13	212.50	4.00	Horizontal	1M	1.00	-3.19
12057.667	31.24	54.00	-22.76	0.00	4.00	Horizontal	1M	1.00	1.51
13911.753	32.01	54.00	-21.99	0.00	1.00	Horizontal	1M	1.00	2.51
15751.034	34.93	54.00	-19.07	360.00	3.94	Vertical	1M	1.00	5.31
16311.406	36.80	54.00	-17.20	212.50	1.00	Horizontal	1M	1.00	6.58
16862.921	37.72	54.00	-16.28	360.00	3.94	Vertical	1M	1.00	8.15
17367.557	38.05	54.00	-15.95	0.00	1.00	Horizontal	1M	1.00	8.16
17779.908	38.47	54.00	-15.53	0.00	3.94	Horizontal	1M	1.00	8.65
17866.302	38.59	54.00	-15.41	212.40	3.94	Horizontal	1M	1.00	8.75
17923.083	37.92	54.00	-16.08	360.00	3.94	Vertical	1M	1.00	8.78

Tx High Channel (2480 MHz), DUT20 on all three axis, RE 18-25 GHz



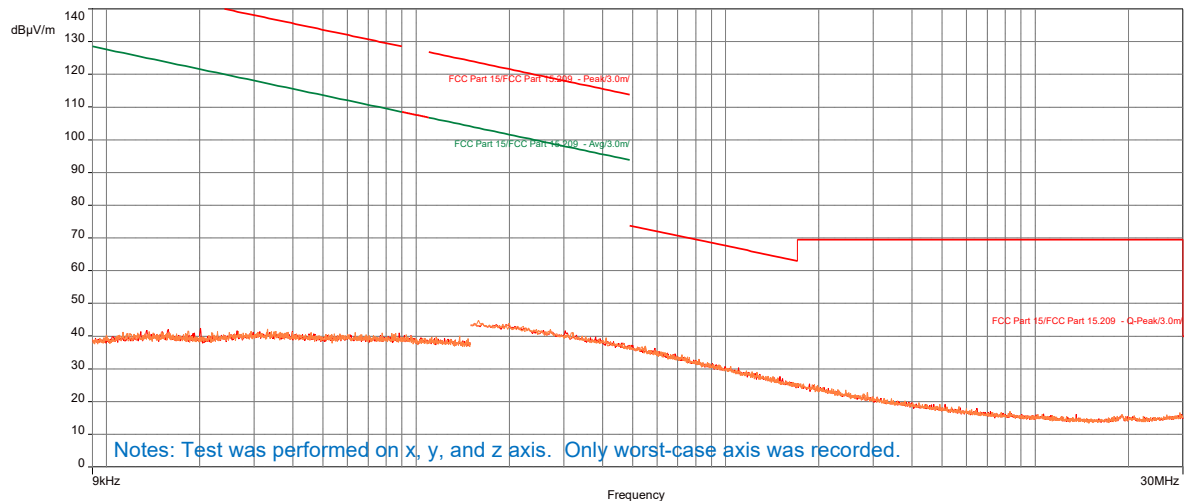
06:57:50 PM 12/13/2024

Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Tx High Channel (2480 MHz), DUT20 on its long side, RE 9 kHz-30 MHz

Test Information:

Date and Time	12/11/2024 6:14:58 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #24_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location (FCC 15.209)_Tx High CH 2480 MHz_EUT on long side_DUT 20

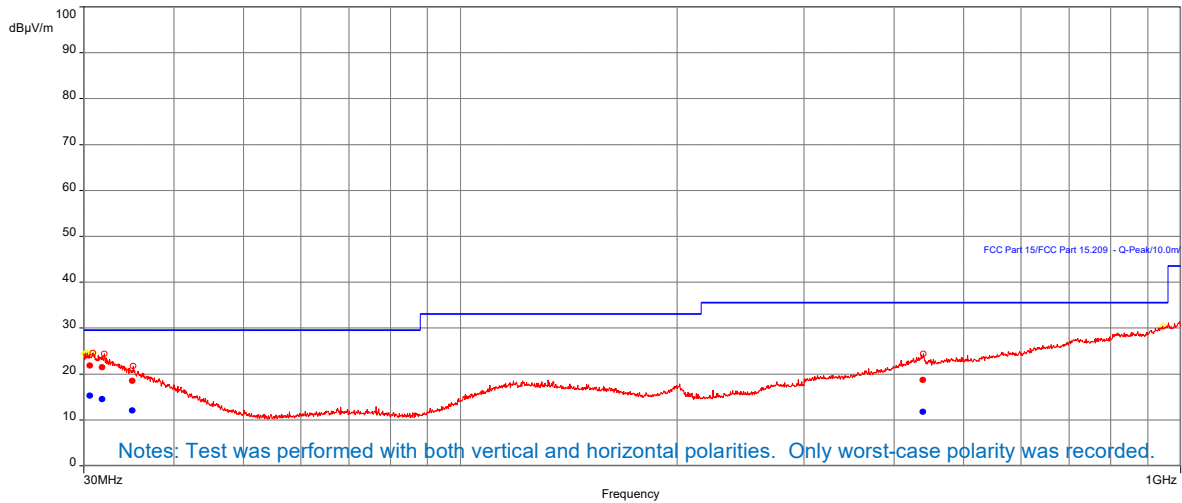
Graph:**Results:** No emission was detected.

Tx High Channel (2480 MHz), DUT19 on its long side, RE 30-1000 MHz

Test Information:

Date and Time	12/10/2024 6:08:48 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	26 %
Atmospheric Pressure	1011 mbars
Comments	Scan #9_ RE 30-1000MHz_ Battery power_ Tx High CH 2480 MHz_ EUT on long side_ DUT 19

Graph:



Results:

QuasiPeak (PASS) (4)

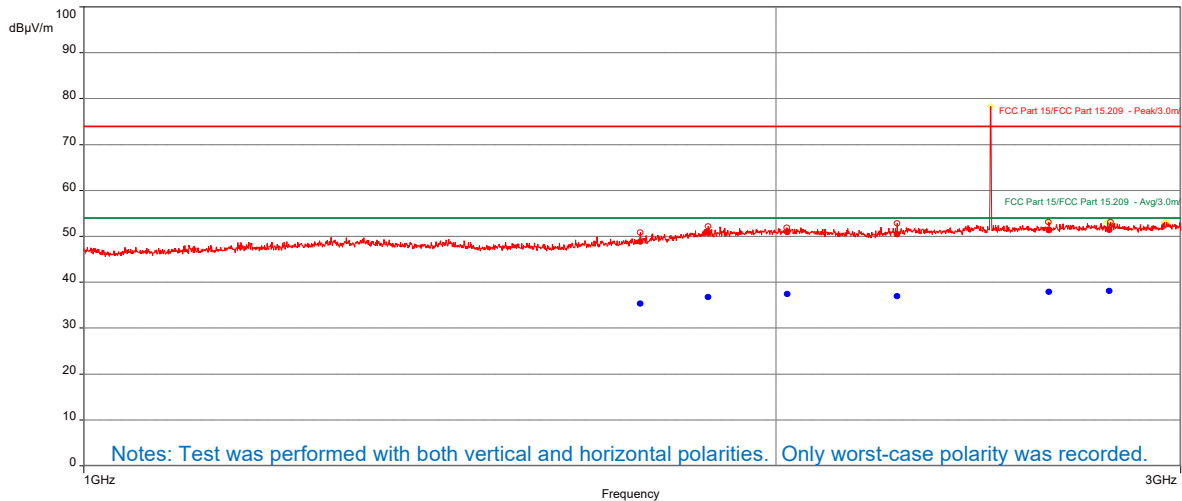
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
30.5978	15.30	29.54	-14.24	358.40	1.92	Horizontal	120k	0.10	-13.13
31.844	14.58	29.54	-14.96	336.50	4.00	Horizontal	120k	0.10	-13.77
35.0523	12.05	29.54	-17.49	1.40	1.61	Horizontal	120k	0.10	-16.17
439.0666	11.84	35.56	-23.72	28.20	3.21	Vertical	120k	0.10	-14.64

Tx High Channel (2480 MHz), DUT20 on its long side, RE 1-3 GHz

Test Information:

Date and Time	12/12/2024 6:02:25 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	1002 mbars
Comments	Scan #45_RE 1 to 3 GHz_Tx High CH 2480 MHz_EUT on long side_DUT 20_Used PRE12

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1746.038	48.85	74.00	-25.15	360.00	3.58	Vertical	1M	1.00	3.70
1869.262	50.99	74.00	-23.01	34.90	1.44	Vertical	1M	1.00	5.24
2022.737	50.94	74.00	-23.06	270.30	1.98	Vertical	1M	1.00	6.02
2258.675	50.49	74.00	-23.51	231.30	1.00	Vertical	1M	1.00	5.74
2628.849	51.38	74.00	-22.62	152.60	2.51	Vertical	1M	1.00	6.94
2793.595	51.43	74.00	-22.57	0.00	1.98	Horizontal	1M	1.00	7.17

AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1746.038	35.33	54.00	-18.67	360.00	3.58	Vertical	1M	1.00	3.70
1869.262	36.75	54.00	-17.25	34.90	1.44	Vertical	1M	1.00	5.24
2022.737	37.49	54.00	-16.51	270.30	1.98	Vertical	1M	1.00	6.02
2258.675	36.98	54.00	-17.02	231.30	1.00	Vertical	1M	1.00	5.74
2628.849	37.96	54.00	-16.04	152.60	2.51	Vertical	1M	1.00	6.94
2793.595	38.14	54.00	-15.86	0.00	1.98	Horizontal	1M	1.00	7.17

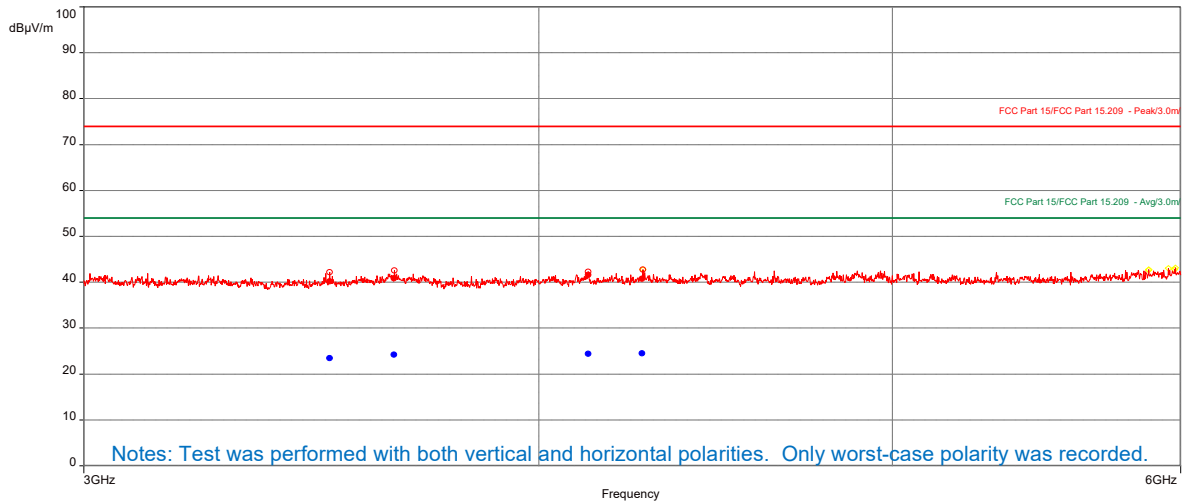
Note: A big signal was the fundamental emissions.

Tx High Channel (2480 MHz), DUT20 on its long side, RE 3-6 GHz

Test Information:

Date and Time	12/11/2024 7:32:15 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #27_RE 3 to 6 GHz_Tx High CH 2480 MHz_EUT on long side_DUT 20_Used BON001

Graph:



Results:

Peak (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3504.262	40.21	74.00	-33.79	337.10	1.00	Horizontal	1M	1.00	-12.23
3649.166	40.85	74.00	-33.15	337.50	1.69	Vertical	1M	1.00	-11.72
4125.888	41.62	74.00	-32.38	0.00	3.27	Vertical	1M	1.00	-10.95
4269.033	40.80	74.00	-33.20	109.70	2.48	Horizontal	1M	1.00	-10.83

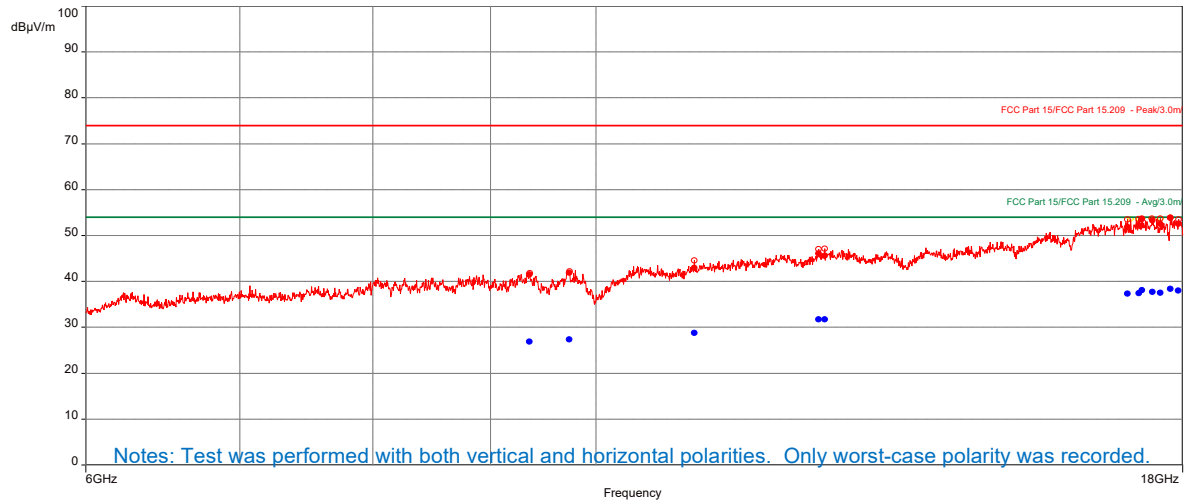
AVG (PASS) (4)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
3504.262	23.48	54.00	-30.52	337.10	1.00	Horizontal	1M	1.00	-12.23
3649.166	24.28	54.00	-29.72	337.50	1.69	Vertical	1M	1.00	-11.72
4125.888	24.46	54.00	-29.54	0.00	3.27	Vertical	1M	1.00	-10.95
4269.033	24.50	54.00	-29.50	109.70	2.48	Horizontal	1M	1.00	-10.83

Tx High Channel (2480 MHz), DUT20 on its long side, RE 6-18 GHz

Test Information:

Date and Time	12/11/2024 9:27:16 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	24 deg C
Humidity	29 %
Atmospheric Pressure	989 mbars
Comments	Scan #30_RE 6 to 18 GHz_Tx High CH 2480 MHz_EUT on long side_DUT 20_Used BON001

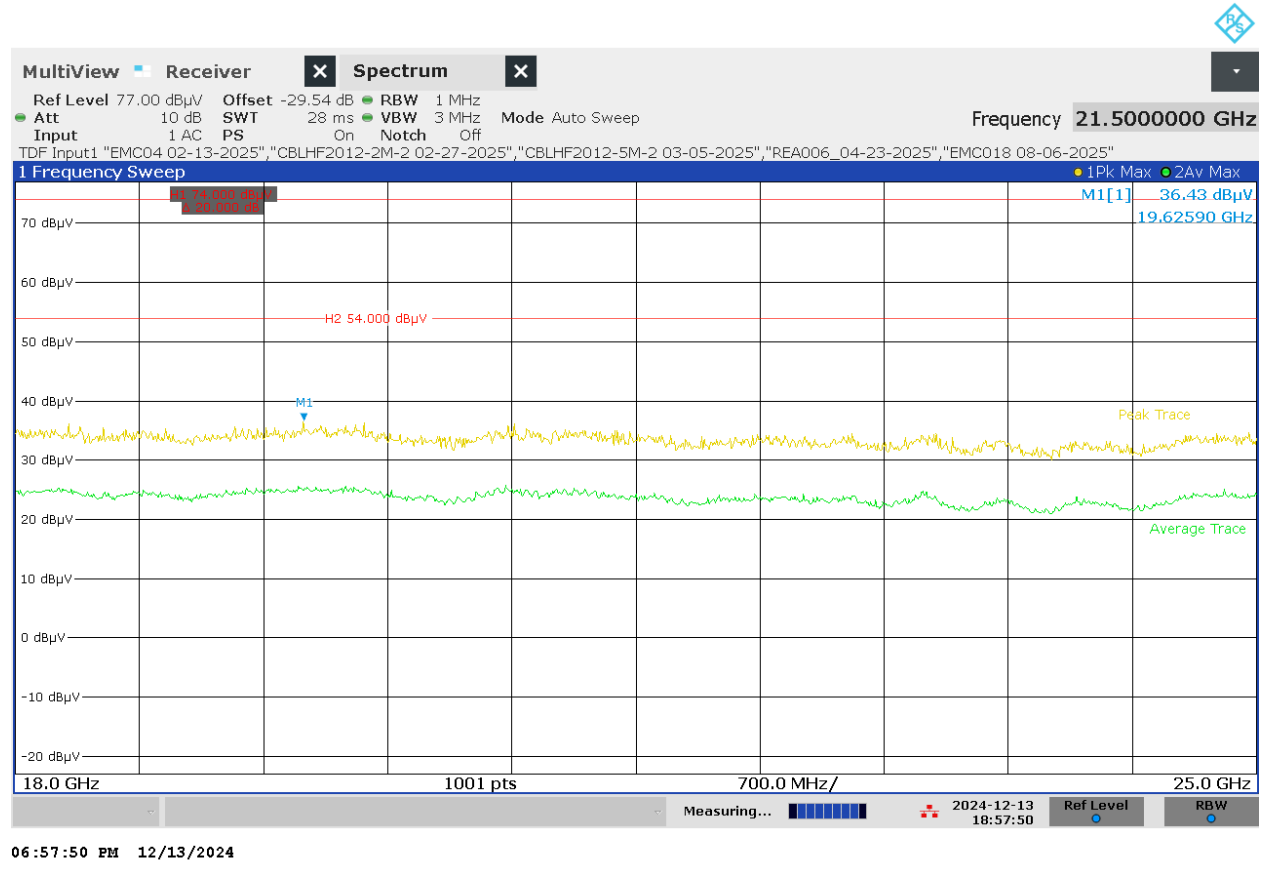
Graph:**Results:****Peak (PASS) (12)**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9358.652	41.53	74.00	-32.47	0.00	3.94	Horizontal	1M	1.00	-3.08
9736.72	41.88	74.00	-32.12	360.00	3.94	Horizontal	1M	1.00	-2.40
11040.15	43.02	74.00	-30.98	212.40	4.00	Vertical	1M	1.00	-0.43
12502.131	46.12	74.00	-27.88	0.00	4.00	Horizontal	1M	1.00	2.52
12575.808	45.59	74.00	-28.41	0.00	1.00	Vertical	1M	1.00	2.53
17033.937	51.94	74.00	-22.06	0.00	1.00	Horizontal	1M	1.00	8.16
17227.139	52.28	74.00	-21.72	360.00	4.00	Vertical	1M	1.00	8.22
17277.711	53.60	74.00	-20.40	360.00	1.00	Horizontal	1M	1.00	8.18
17460.328	53.34	74.00	-20.66	212.60	1.00	Vertical	1M	1.00	8.22
17602.879	52.57	74.00	-21.43	0.00	4.00	Horizontal	1M	1.00	8.34
17782.166	53.87	74.00	-20.13	0.00	3.94	Vertical	1M	1.00	8.65
17925.337	52.53	74.00	-21.47	212.30	4.00	Horizontal	1M	1.00	8.77

AVG (PASS) (12)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9358.652	26.89	54.00	-27.11	0.00	3.94	Horizontal	1M	1.00	-3.08
9736.72	27.34	54.00	-26.66	360.00	3.94	Horizontal	1M	1.00	-2.40
11040.15	28.77	54.00	-25.23	212.40	4.00	Vertical	1M	1.00	-0.43
12502.131	31.75	54.00	-22.25	0.00	4.00	Horizontal	1M	1.00	2.52
12575.808	31.71	54.00	-22.29	0.00	1.00	Vertical	1M	1.00	2.53
17033.937	37.38	54.00	-16.62	0.00	1.00	Horizontal	1M	1.00	8.16
17227.139	37.50	54.00	-16.50	360.00	4.00	Vertical	1M	1.00	8.22
17277.711	38.14	54.00	-15.86	360.00	1.00	Horizontal	1M	1.00	8.18
17460.328	37.79	54.00	-16.21	212.60	1.00	Vertical	1M	1.00	8.22
17602.879	37.52	54.00	-16.48	0.00	4.00	Horizontal	1M	1.00	8.34
17782.166	38.42	54.00	-15.58	0.00	3.94	Vertical	1M	1.00	8.65
17925.337	37.99	54.00	-16.01	212.30	4.00	Horizontal	1M	1.00	8.77

Tx High Channel (2480 MHz), EUT on all three axis, RE 18-25 GHz



Notes: Testing was performed manually around the EUT at 10 cm distance on all three axis. No emission was detected above the test instrument noise floor. The cable loss, antenna factor, filter loss, and pre-amp gain were compensated as transducer factor (TDF) and the distance factor was compensated as Reference Offset.

Product Standard: CFR47 FCC Part 15.247, CFR47 FCC Part 15.209, RSS-247				Limit applied: See Report Section 10.2			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
12/09/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	22	28	1007
12/10/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	23	26	1011
12/11/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	24	29	989
12/12/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	24	29	1002
12/13/2024	Kouma Sinn <i>KPS</i>	N/A	Internal battery	Continuous transmitting	24	19	1025
12/19/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	22	28	1008

Deviations, Additions, or Exclusions: None

11 Digital Device Radiated Spurious Emissions

11.1 Method

Tests are performed in accordance with FCC Part 15 Subpart B, ISED ICES-003, and ANSI C 63.4.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This

value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V

AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μ V
NF = Net Reading in dB μ V

Example:

FS = RA + AF + CF – AG = 52.0 + 7.4 + 1.6 – 29.0 = 32.0

UF = $10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$

Alternately, when BAT-EMC Emission Software is used, the “Level” includes all losses and gains and is compared directly in the “Margin” column to the “Limit”. The “Correction” includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the “Level” column.

11.2 Limit

§15.109 Radiated emission limits.

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

Frequency of emission (MHz)	Field strength (microvolts/meter)	Field strength (dB μ V/m)
30-88	100	40.00
88-216	150	43.52
216-960	200	46.02
Above 960	500	54.00

Notes: The limits for ISSED ICES-003 are the same as the FCC limits above.

11.3 Test Equipment Used:

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	02/27/2024	02/27/2025
IW006'	DC-18GHz cable 8.4m long	Insulated Wire	2800-NPS	IW006	05/23/2024	05/23/2025
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/30/2024	01/30/2025
145145'	Broadband Hybrid Antenna 30 MHz - 3 GHz	Sunol Sciences Corp.	JB3	A122313	07/11/2024	07/11/2025
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	02/27/2024	02/27/2025

Test equipment used from 1-13 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/27/2024	03/27/2025
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/10/2024	06/10/2025
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/27/2024	02/27/2025
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/15/2024	07/15/2025
145-422'	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	03/26/2024	03/26/2025
IW003'	8.4 meter cable	Insulated Wire	2800-NPS	003	01/17/2024	01/17/2025
ETS002	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/04/2024	09/04/2025
BONN001	1-18GHz low noise pre-amp	Bonn	BLMA 0118-M	1811749	07/24/2024	07/24/2025
WEI32	10 dB 18GHz 5W Attenuator	Weinschel	WA2-10-0403	WEI32	01/08/2024	01/08/2025

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

11.4 Results:

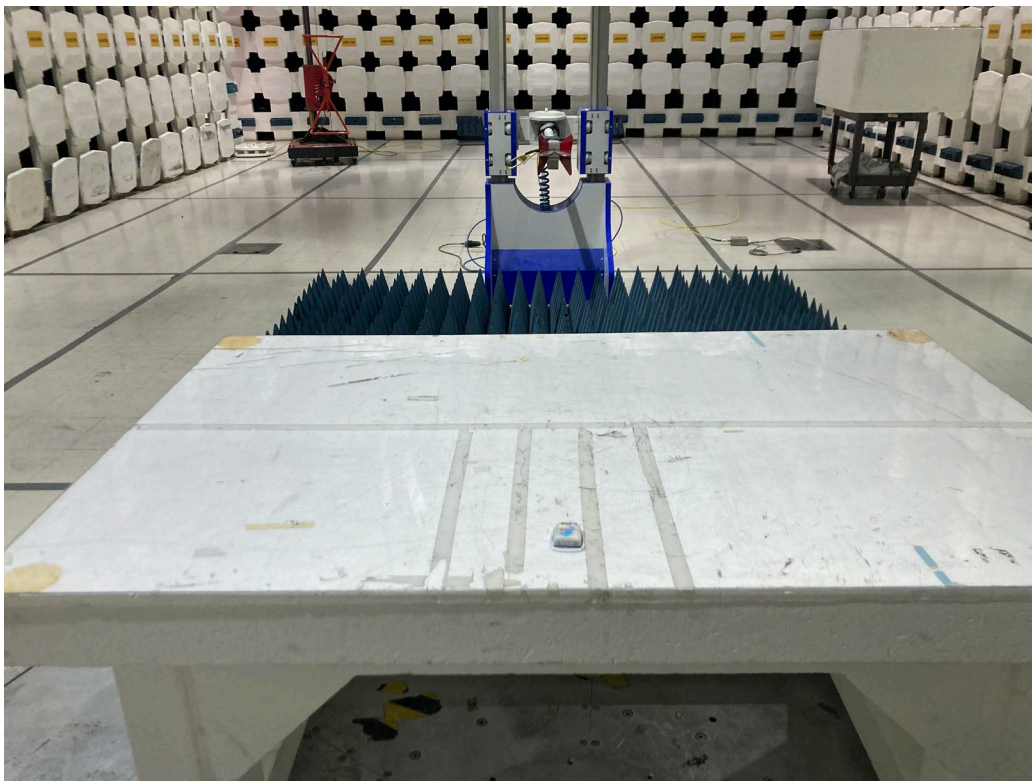
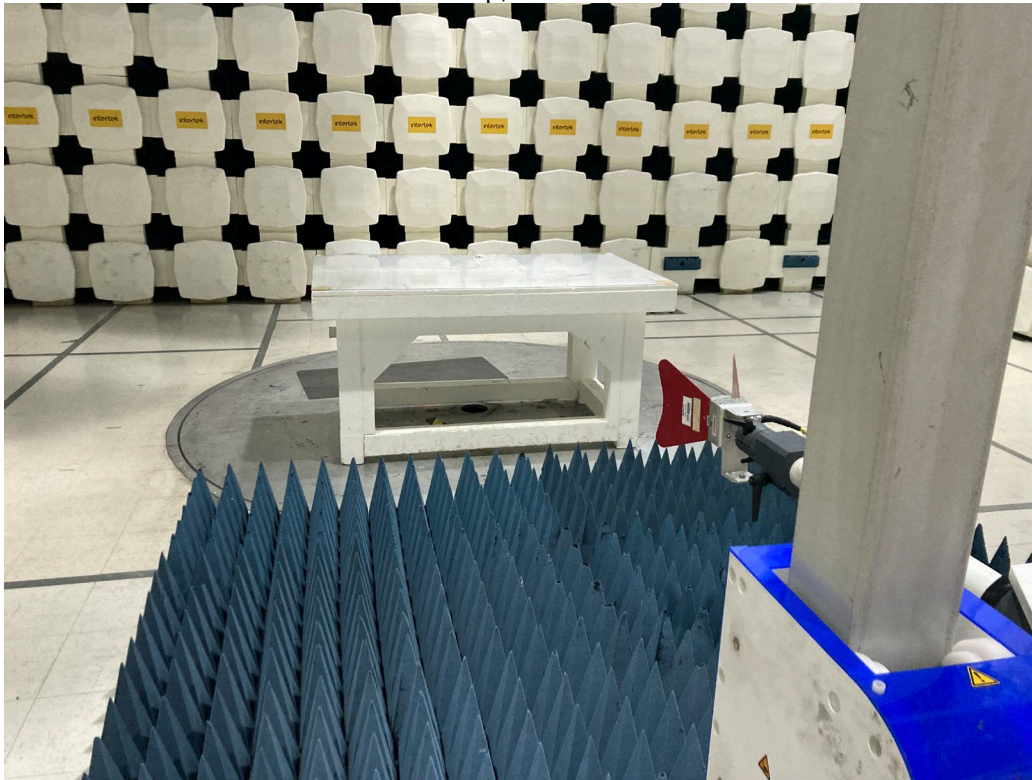
The sample tested was found to Comply.

11.5 Setup Photographs:

Test Setup, 30-1000 MHz



Test Setup, RE 1-13 GHz



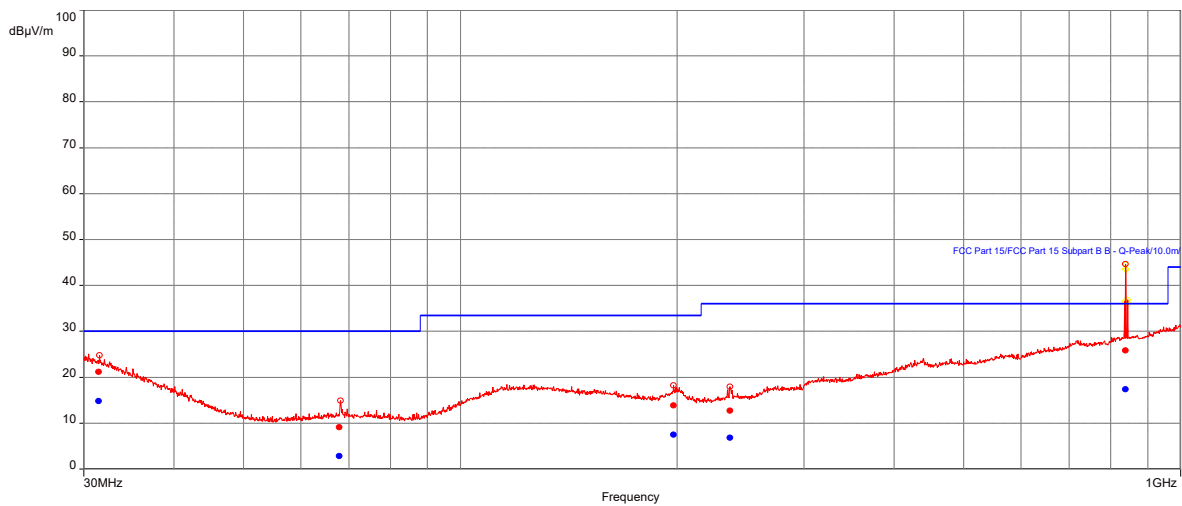
11.6 Plots/Data:

Radiated Emissions From 30-1000 MHz With Radio in Standby Mode

Test Information:

Date and Time	12/9/2024 7:57:49 PM
Client and Project Number	Insulet_G105948073
Engineer	Vathana Ven
Temperature	22 deg C
Humidity	28 %
Atmospheric Pressure	1007 mbars
Comments	Scan #1 RE 30-1000MHz Battery power Rx Low CH 2402 MHz DUT 13

Graph:



Results:

QuasiPeak (PASS) (5)

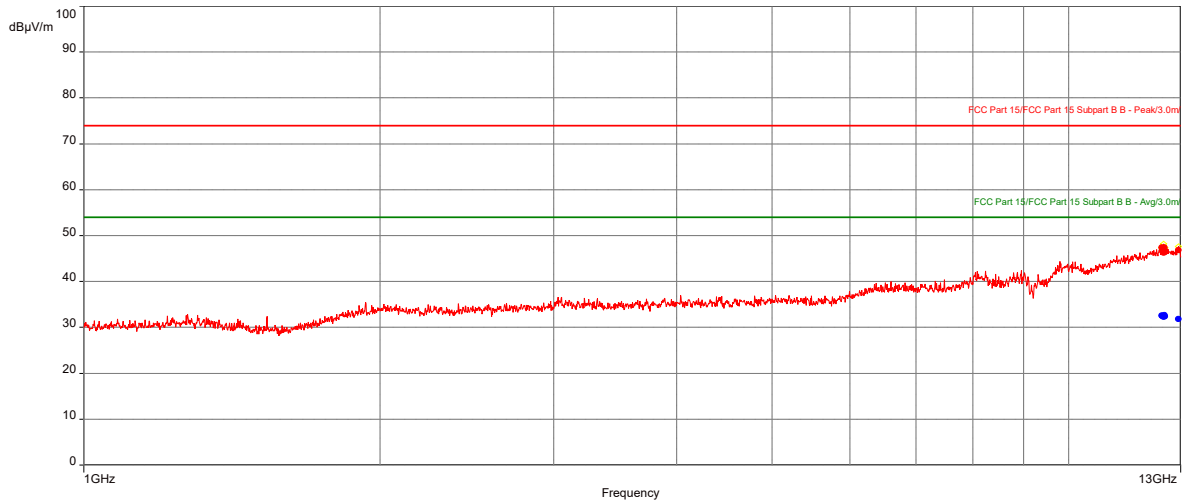
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
31.4672	14.84	30.00	-15.16	1.40	4.00	Horizontal	120k	0.10	-13.55
67.8578	2.83	30.00	-27.17	171.60	4.00	Vertical	120k	0.10	-25.05
197.7376	7.48	33.50	-26.02	147.20	4.00	Vertical	120k	0.10	-19.75
236.9336	6.85	36.00	-29.15	77.10	1.31	Vertical	120k	0.10	-20.65
838.3269	17.38	36.00	-18.62	148.00	2.45	Vertical	120k	0.10	-7.39

Radiated Emissions From 1-13 GHz With Radio in Standby Mode

Test Information:

Date and Time	12/10/2024 10:11:35 PM
Client and Project Number	Insulet G105948073
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	26 %
Atmospheric Pressure	1011 mbars
Comments	Scan #16 RE 1 to 13 GHz Battery power Rx mode DUT 11

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
12444.661	47.42	74.00	-26.58	360.00	1.00	Horizontal	1M	1.00	2.43
12454.117	46.68	74.00	-27.32	0.00	3.94	Vertical	1M	1.00	2.45
12496.85	46.33	74.00	-27.67	0.00	4.00	Vertical	1M	1.00	2.51
12512.454	47.49	74.00	-26.51	212.40	1.00	Vertical	1M	1.00	2.52
12529.843	46.43	74.00	-27.57	360.00	1.00	Horizontal	1M	1.00	2.52
12940.47	46.87	74.00	-27.13	0.00	1.00	Horizontal	1M	1.00	2.51

AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
12444.661	32.66	54.00	-21.34	360.00	1.00	Horizontal	1M	1.00	2.43
12454.117	32.54	54.00	-21.46	0.00	3.94	Vertical	1M	1.00	2.45
12496.85	32.35	54.00	-21.65	0.00	4.00	Vertical	1M	1.00	2.51
12512.454	32.67	54.00	-21.33	212.40	1.00	Vertical	1M	1.00	2.52
12529.843	32.41	54.00	-21.59	360.00	1.00	Horizontal	1M	1.00	2.52
12940.47	31.85	54.00	-22.15	0.00	1.00	Horizontal	1M	1.00	2.51

Product Standard: FCC 47CFR15 Part 15 Subpart B, ISSED ICES-003				Limit applied: See Report Section 11.2			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
12/09/2024	Vathana Ven <i>VSV</i>	N/A	Internal battery	Continuous transmitting	22	28	1007
12/10/2024	Vathana Ven <i>VSV</i>	N/A	Internal batterv	Continuous transmitting	23	26	1011

Deviations, Additions, or Exclusions: None

12 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	12/19/2024	105948073BOX-001.FCC	KPS <i>KPS</i>	VFV <i>VFV</i>	Original Issue
1	03/12/2025	105948073BOX-001.FCC.Rev1	KPS <i>KPS</i>	VFV <i>VFV</i>	Updated model from Omnipod 5 with Orion Pod to POD-OMNI-I1-6720
2	04/24/2025	105948073BOX-001.FCC.Rev2	KPS <i>KPS</i>	VFV <i>VFV</i>	See Note # 1

Note # 1:

- a) Added a note on the plot for all data to indicate that testing was performed in both vertical and horizontal polarities and worst-case polarity was recorded.
- b) Corrected Peak Power Spectral Density typo to match with the plots.