

### 5.1.4 Power Density

**RESULT:****Passed**

|                   |   |                               |
|-------------------|---|-------------------------------|
| Test standard     | : | LP0002(2018): 3.10.1.6 (2)(B) |
| Basic standard    | : | ANSI C63.10:2013              |
|                   | : | LP0002(2008) Appendix II      |
| Kind of test site | : | Shielded room                 |

**Test setup**

|                      |   |                   |
|----------------------|---|-------------------|
| Test Channel         | : | Low/ Middle/ High |
| Operation Mode       | : | A                 |
| Ambient temperature  | : | 20-24°C           |
| Relative humidity    | : | 50-65%            |
| Atmospheric pressure | : | 100-103 kPa       |

**Table 16: Test result of Power Density, T8000 ANT**

| Channel        | Channel Frequency (MHz) | Power Density | Limit |
|----------------|-------------------------|---------------|-------|
|                |                         | (dBm)         | (dBm) |
| Low Channel    | 2403                    | -5.81         | 8     |
| Middle Channel | 2442                    | -5.74         | 8     |
| High Channel   | 2480                    | -5.52         | 8     |

**Table 17: Test result of Power Density, T8000 BLE**

| Channel        | Channel Frequency (MHz) | Power Density | Limit |
|----------------|-------------------------|---------------|-------|
|                |                         | (dBm)         | (dBm) |
| Low Channel    | 2402                    | -14.19        | 8     |
| Middle Channel | 2440                    | -13.85        | 8     |
| High Channel   | 2480                    | -13.76        | 8     |

**Table 18: Test result of Power Density, T8000D ANT**

| Channel        | Channel Frequency (MHz) | Power Density | Limit |
|----------------|-------------------------|---------------|-------|
|                |                         | (dBm)         | (dBm) |
| Low Channel    | 2403                    | -5.63         | 8     |
| Middle Channel | 2442                    | -5.49         | 8     |
| High Channel   | 2480                    | -5.79         | 8     |

**Table 19: Test result of Power Density, T8000D BLE**

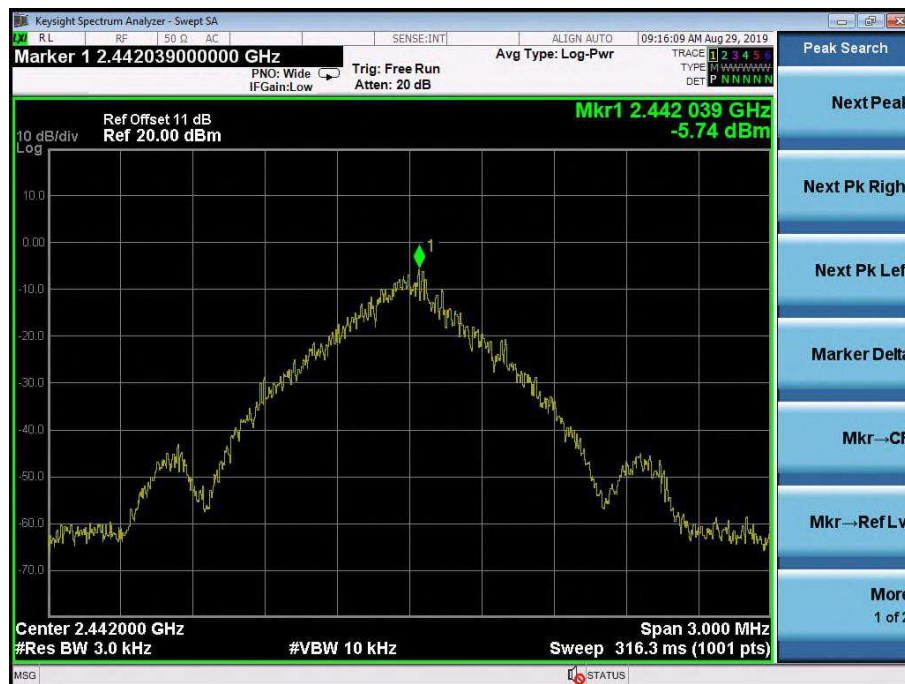
| Channel        | Channel Frequency (MHz) | Power Density | Limit |
|----------------|-------------------------|---------------|-------|
|                |                         | (dBm)         | (dBm) |
| Low Channel    | 2402                    | -13.91        | 8     |
| Middle Channel | 2440                    | -14.42        | 8     |
| High Channel   | 2480                    | -13.72        | 8     |

## Test Plot of Power Density, T8000 ANT

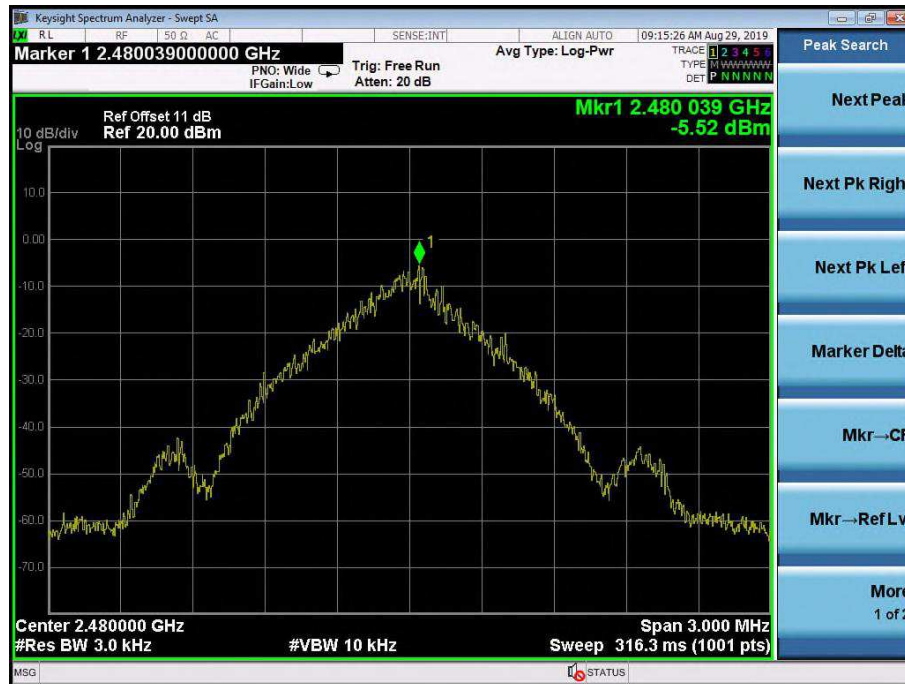
### Low Channel



### Middle Channel

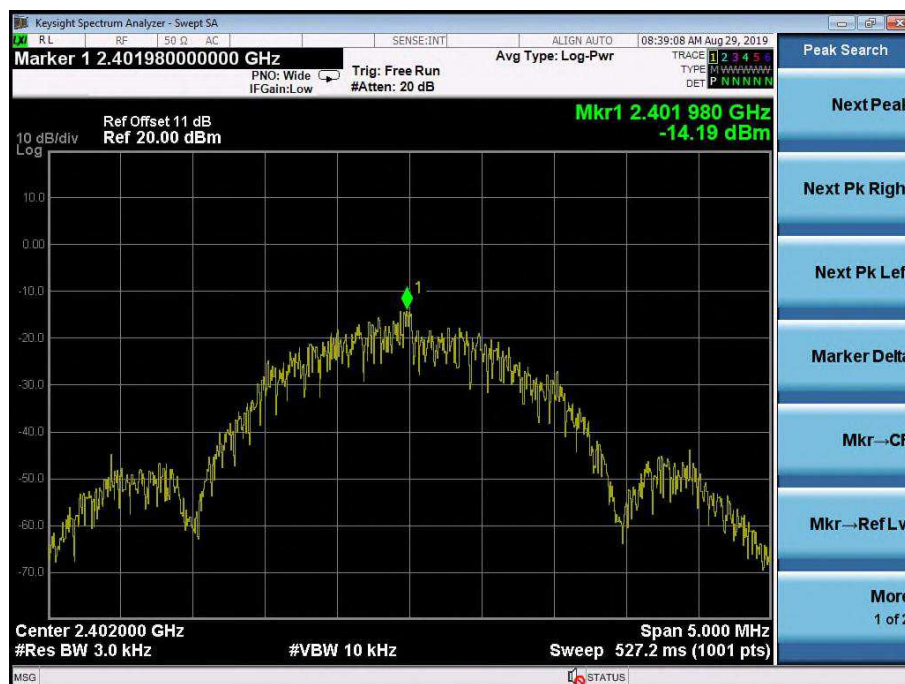


### High Channel



### Test Plot of Power Density, T8000 BLE

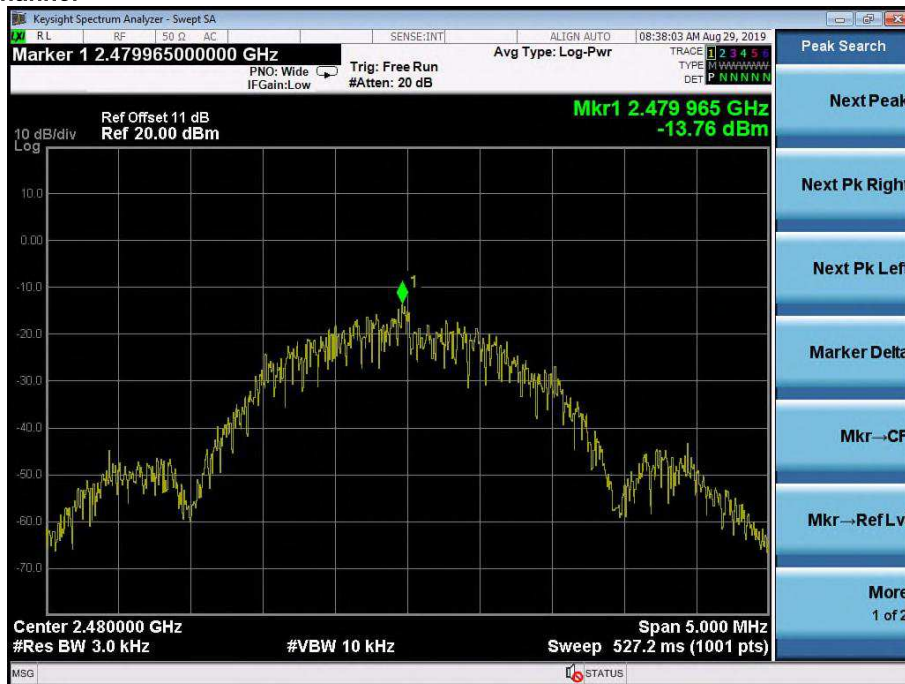
### Low Channel



### Middle Channel

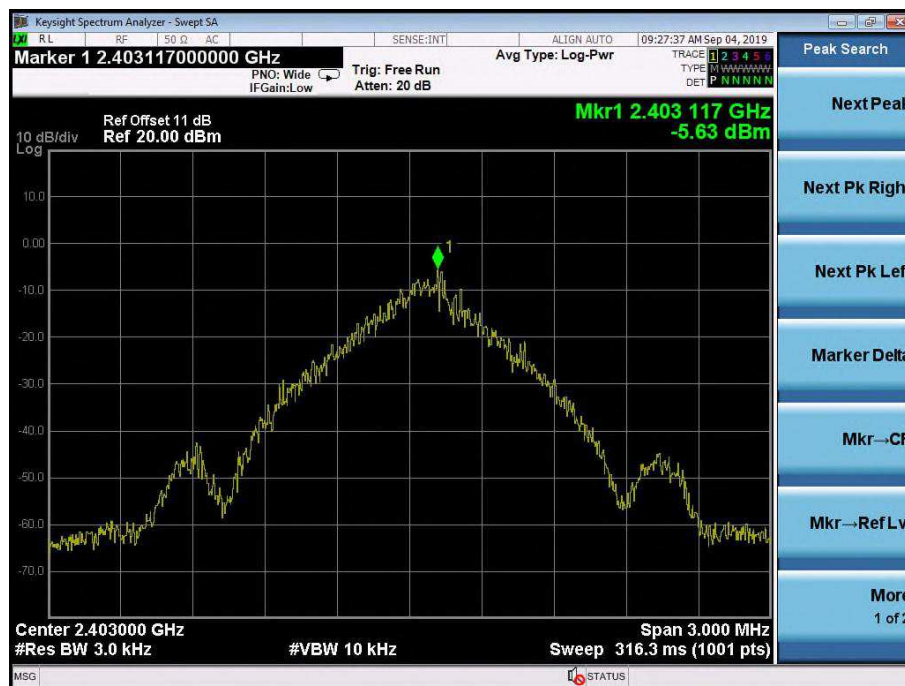


### High Channel

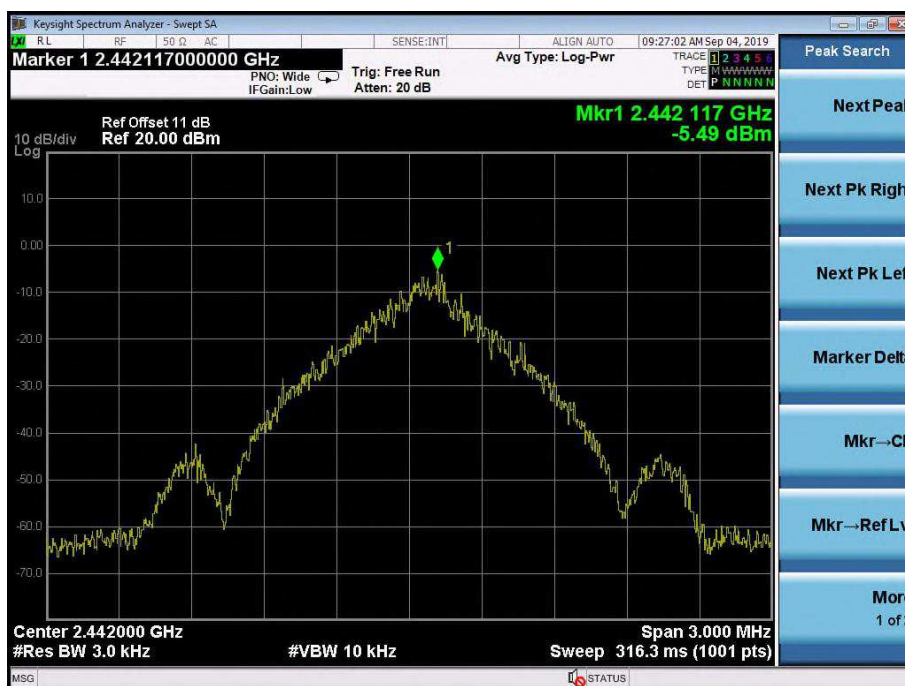


## Test Plot of Power Density, T8000D ANT

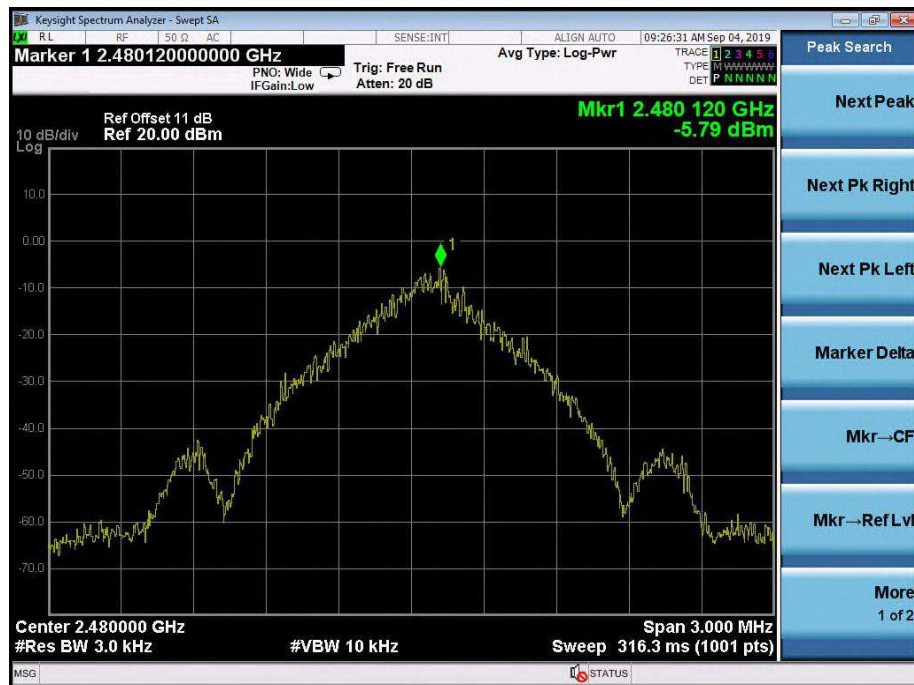
### Low Channel



### Middle Channel

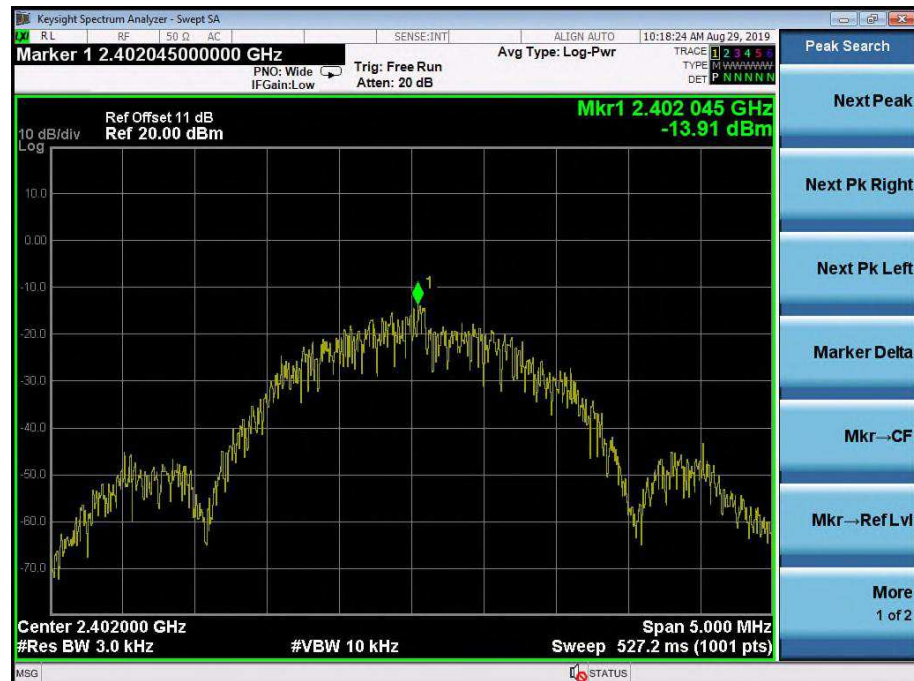


### High Channel

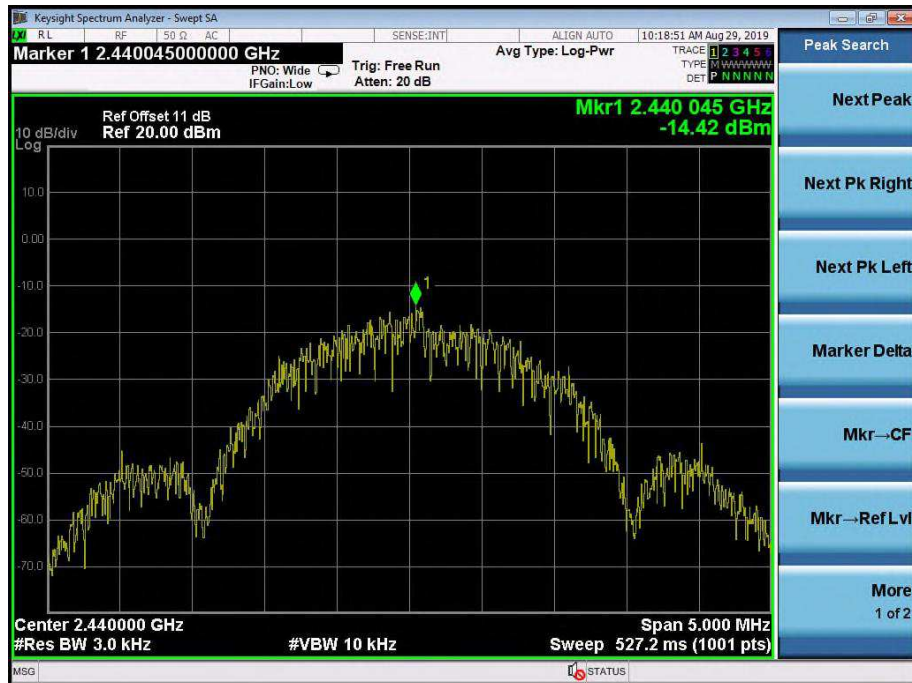


## Test Plot of Power Density, T8000D BLE

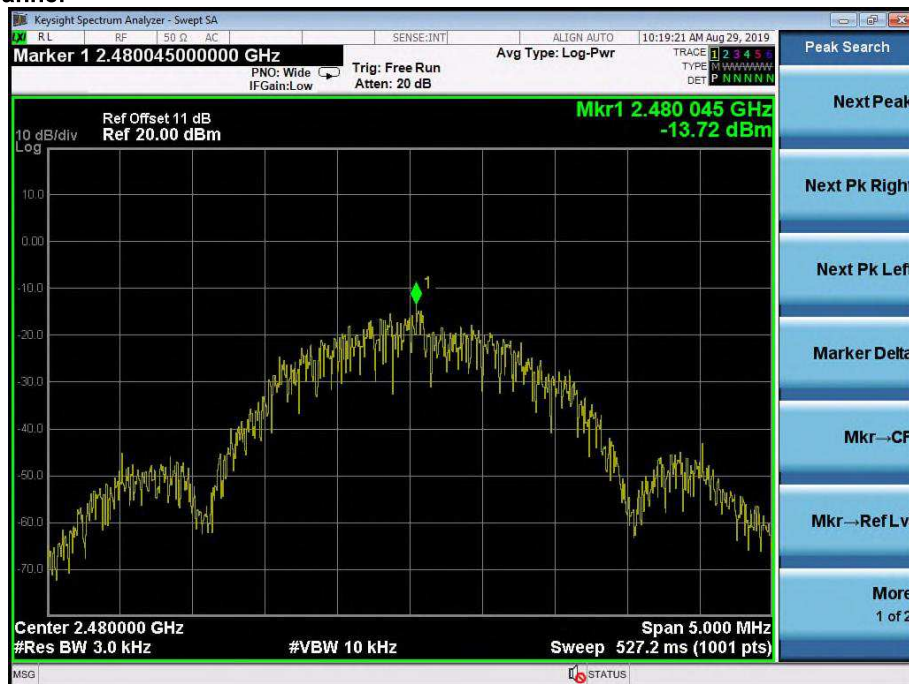
### Low Channel



### Middle Channel



### High Channel



**5.1.5 Conducted spurious emissions and Frequency Band Edge  
measured in 100kHz Bandwidth****RESULT:****Passed**

|                   |   |                                                                                                                   |
|-------------------|---|-------------------------------------------------------------------------------------------------------------------|
| Test standard     | : | LP0002(2018): 3.10.1.5                                                                                            |
| Basic standard    | : | ANSI C63.10:2013<br>LP0002(2008) Appendix II                                                                      |
| Limit             | : | 20dB (below that in the 100kHz bandwidth within the<br>band that contains the highest level of the desired power) |
| Kind of test site | : | Shielded room                                                                                                     |

**Test setup**

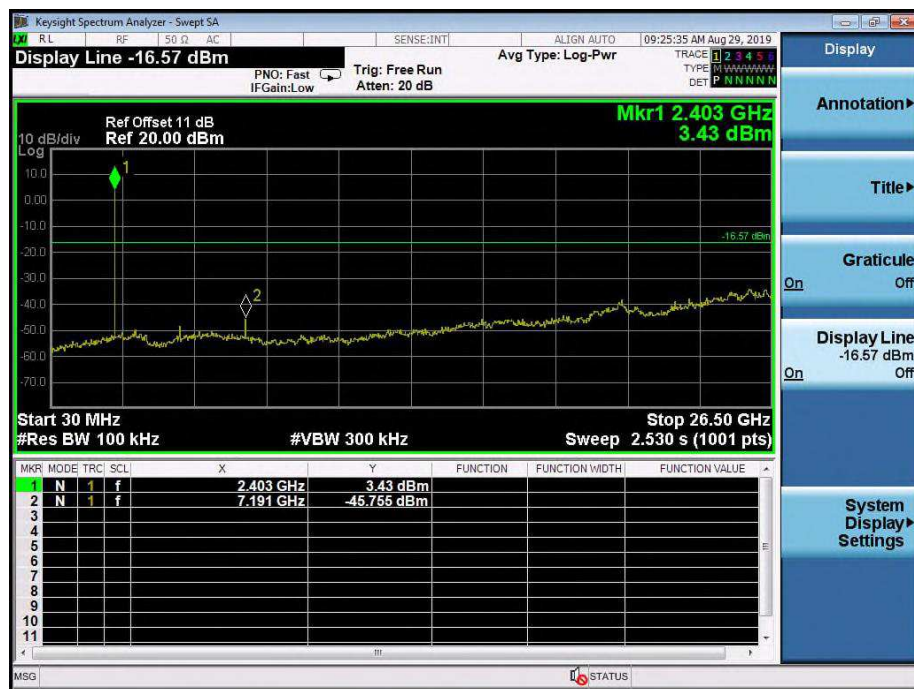
|                      |   |                                                         |
|----------------------|---|---------------------------------------------------------|
| Test Channel         | : | Low/ Mid/ High for spurious, Low/ High for<br>Band Edge |
| Operation mode       | : | A                                                       |
| Ambient temperature  | : | 20-24°C                                                 |
| Relative humidity    | : | 50-65%                                                  |
| Atmospheric pressure | : | 100-103 kPa                                             |

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

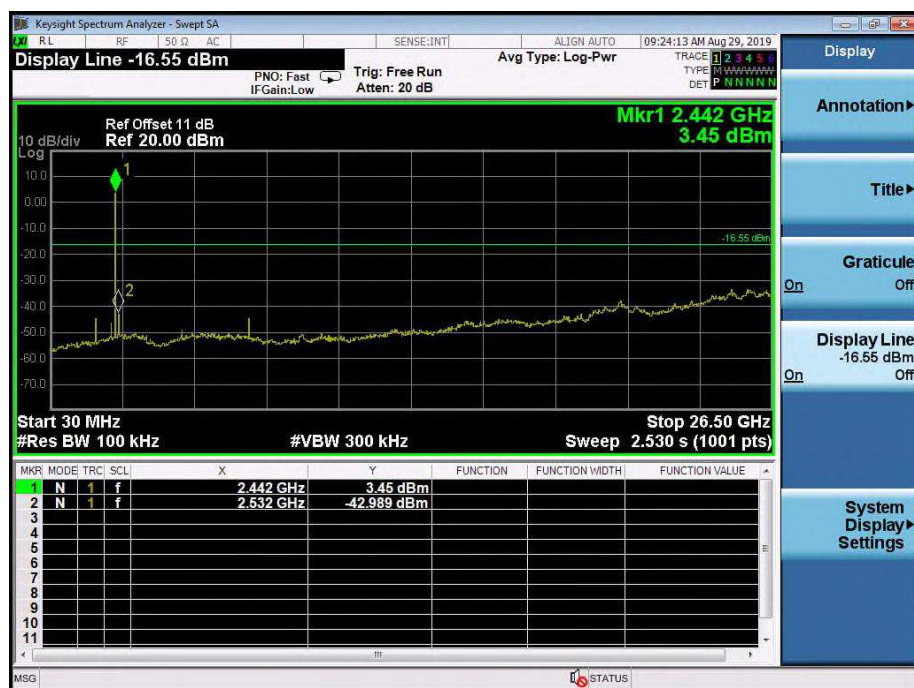
Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

## Test Plot 100kHz Conducted Emissions,T8000 ANT

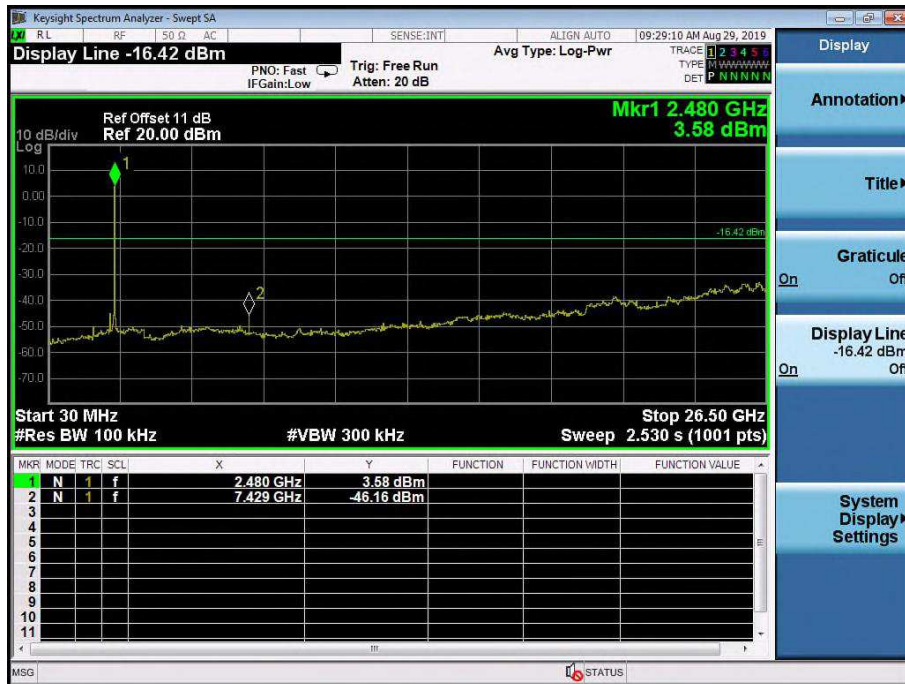
### Low Channel



### Middle Channel

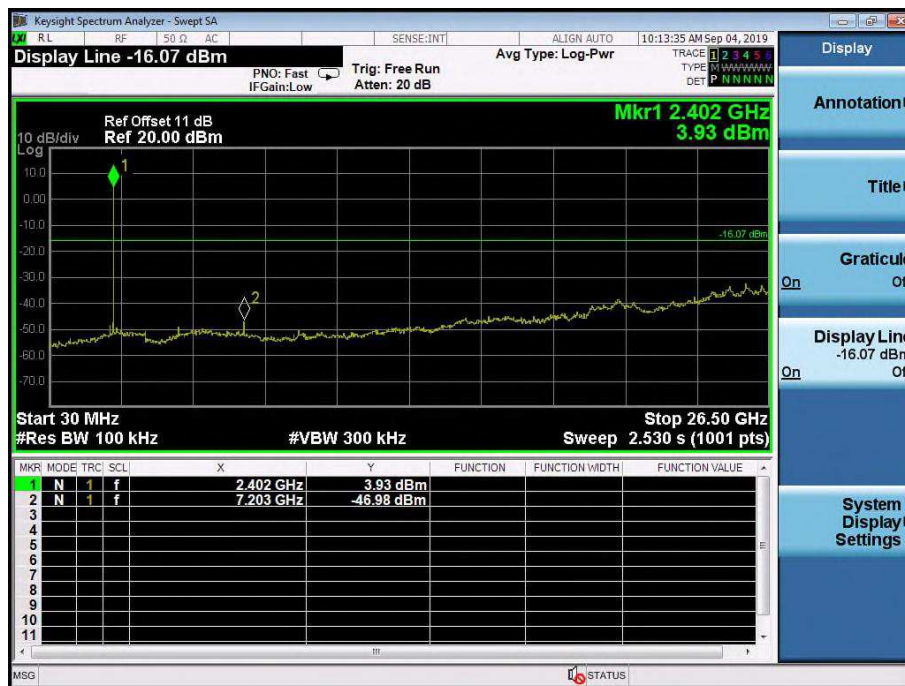


### High Channel

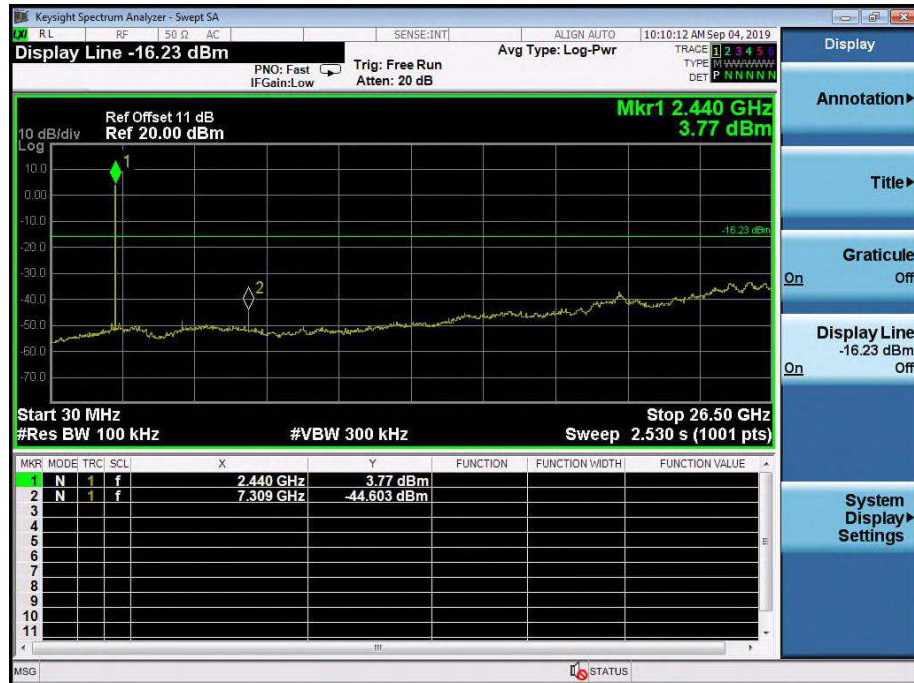


### Test Plot 100kHz Conducted Emissions,T8000 BLE

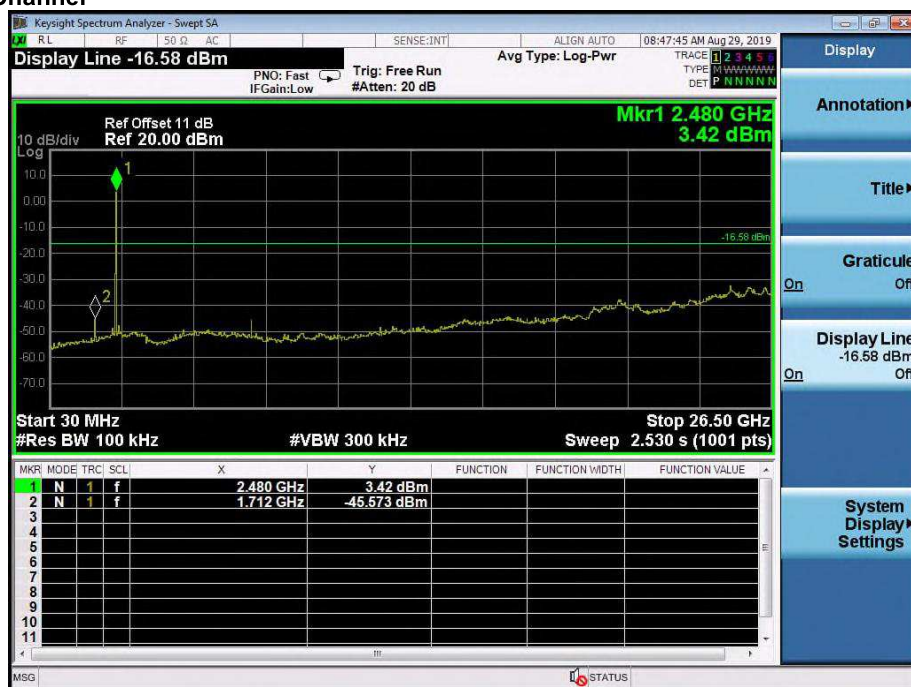
#### Low Channel



### Middle Channel

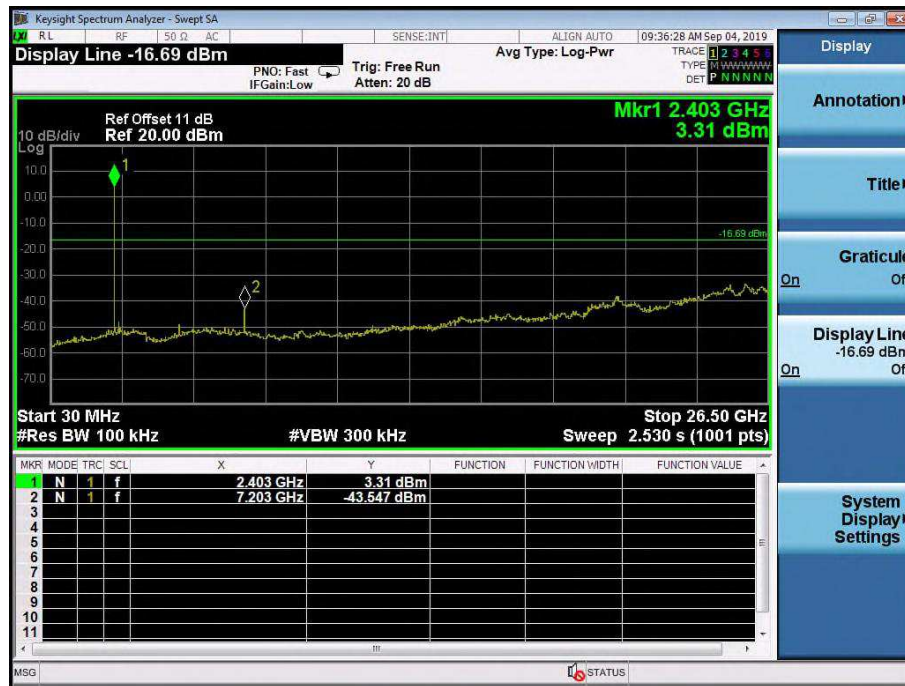


### High Channel



## Test Plot 100kHz Conducted Emissions,T8000D ANT

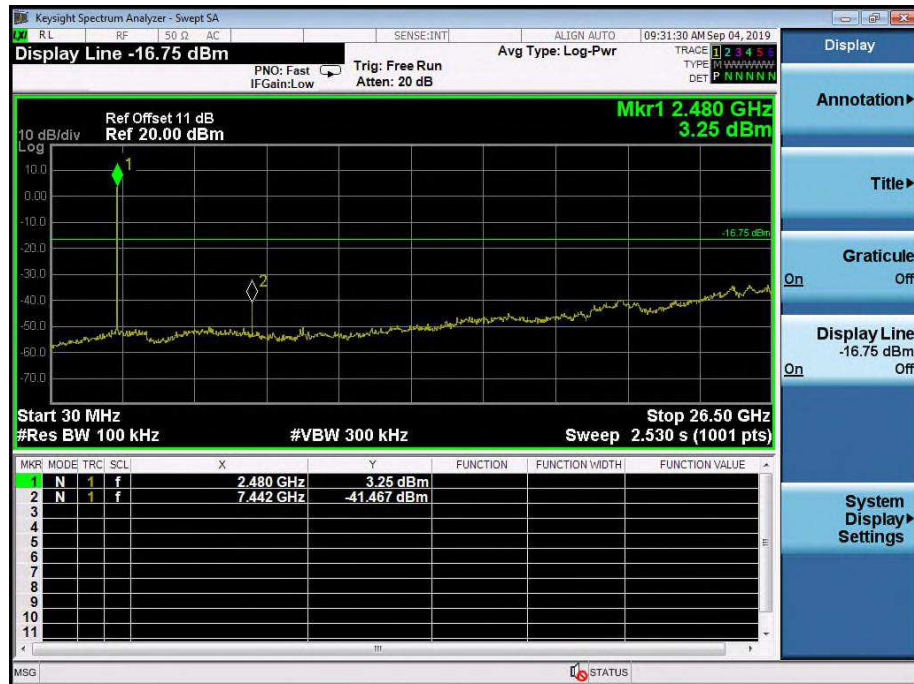
### Low Channel



### Middle Channel

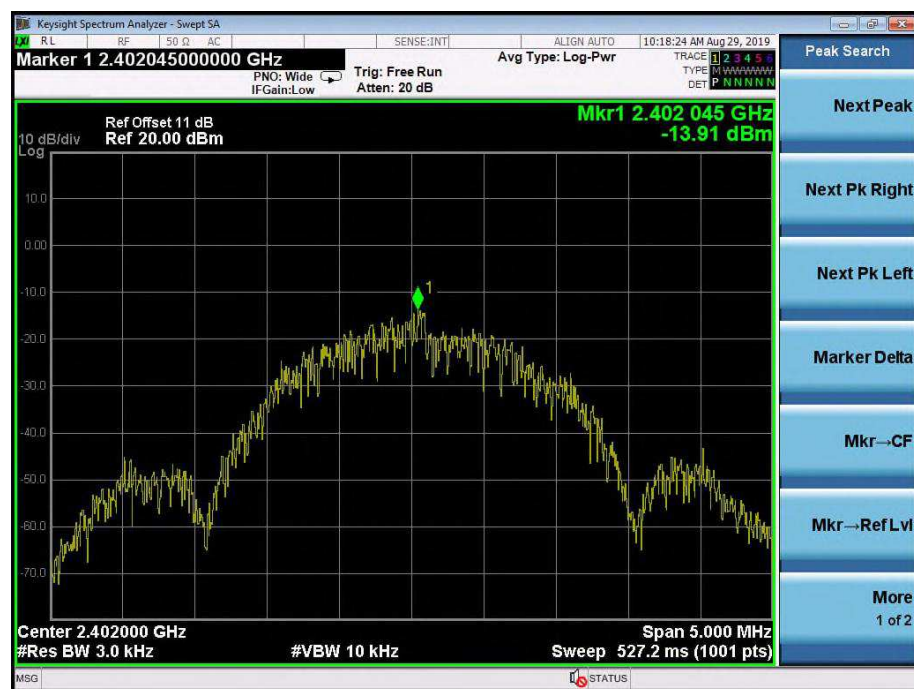


### High Channel

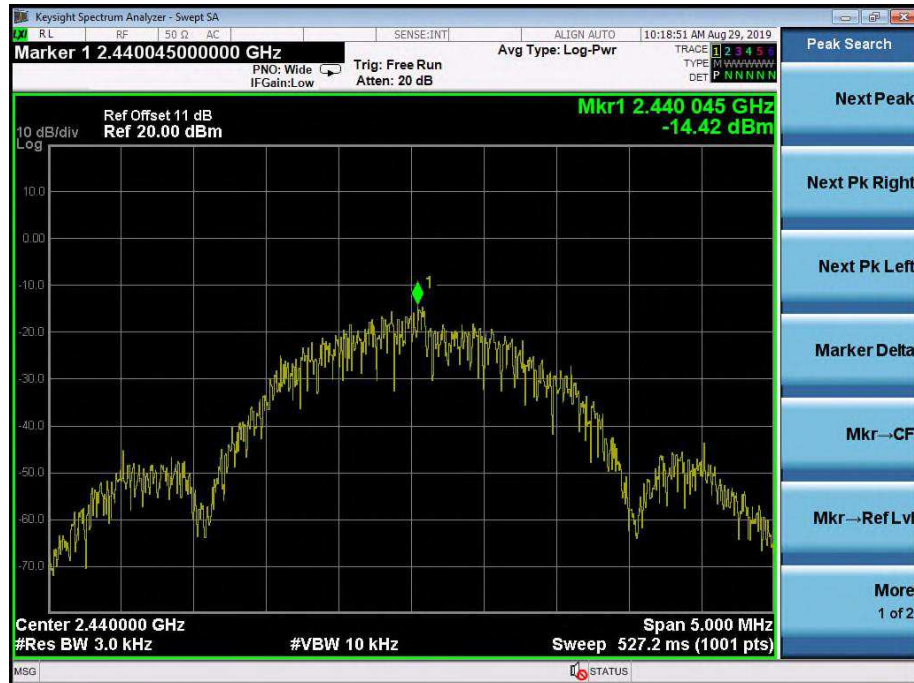


### Test Plot 100kHz Conducted Emissions,T8000D BLE

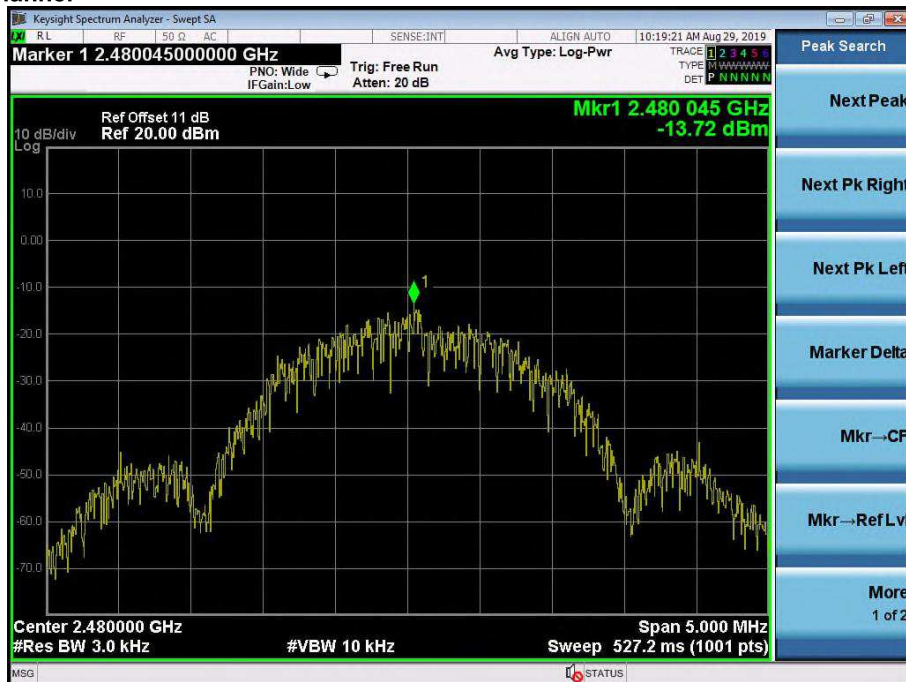
#### Low Channel



### Middle Channel

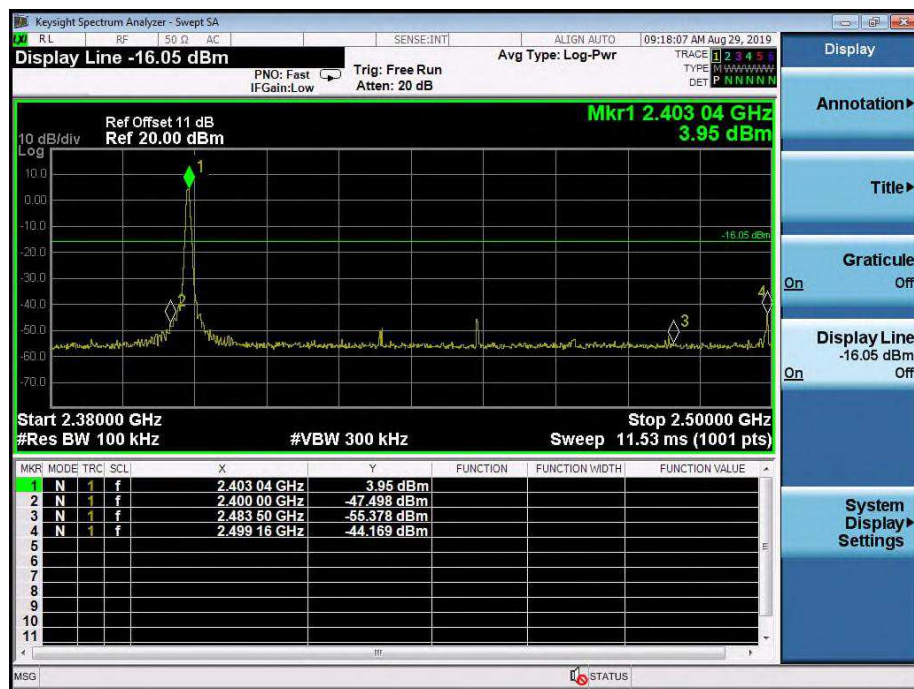


### High Channel

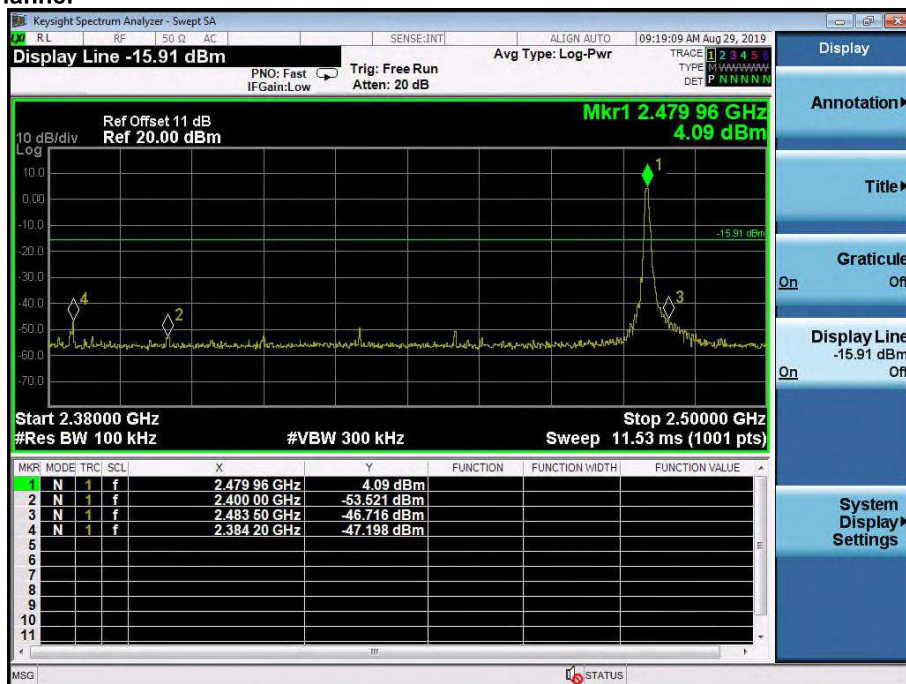


## Test Plot 100kHz RBW of Band Edge,T8000 ANT

### Low Channel

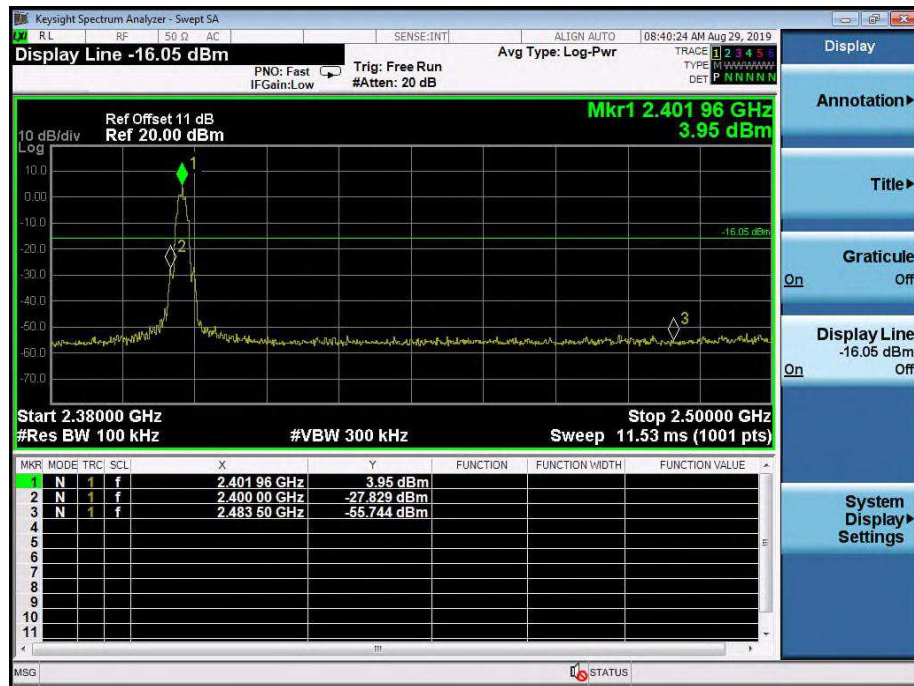


### High Channel

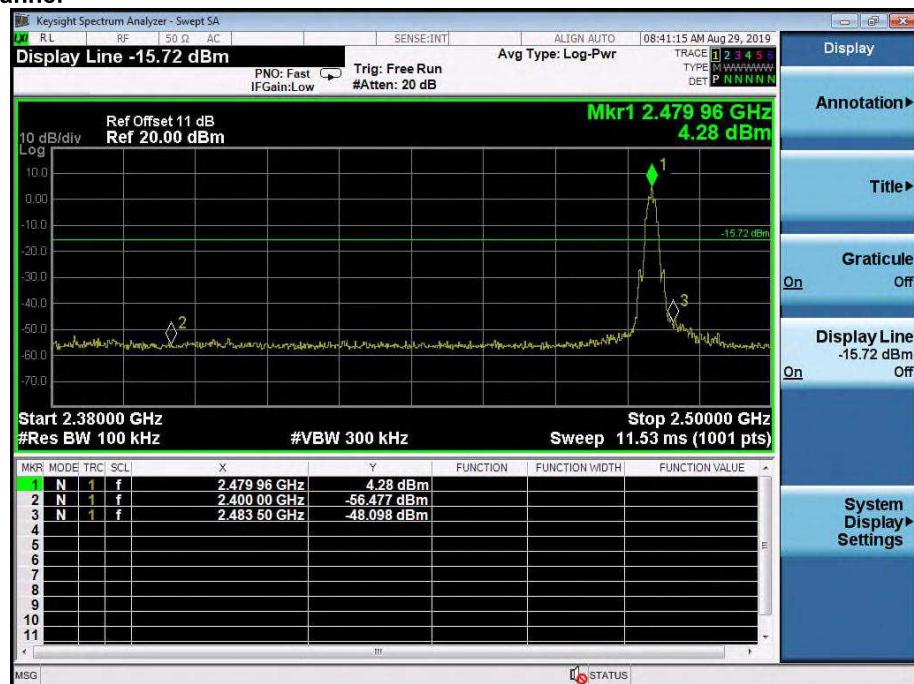


## Test Plot 100kHz RBW of Band Edge,T8000 BLE

### Low Channel

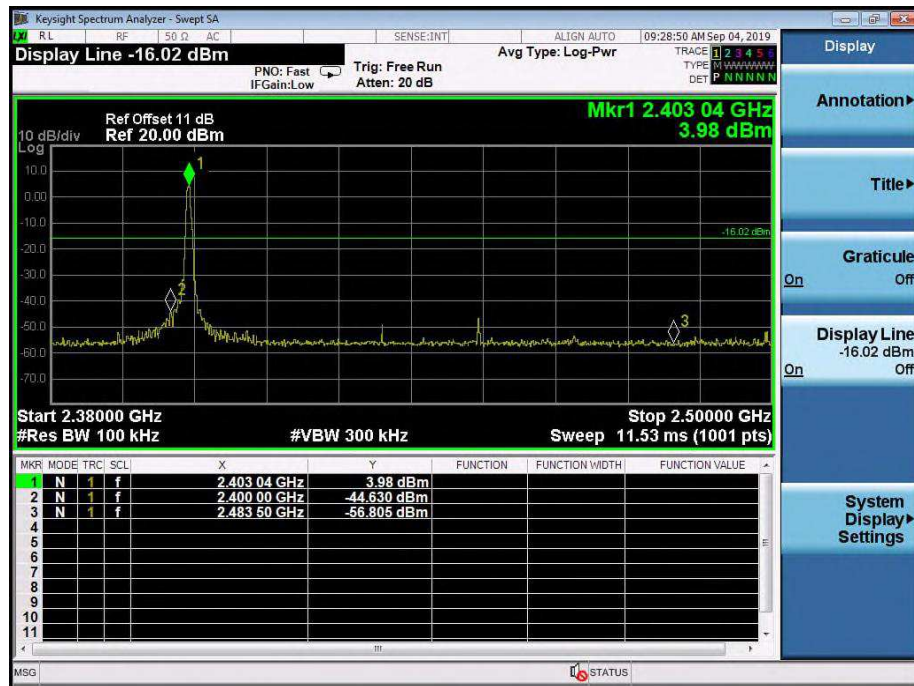


### High Channel

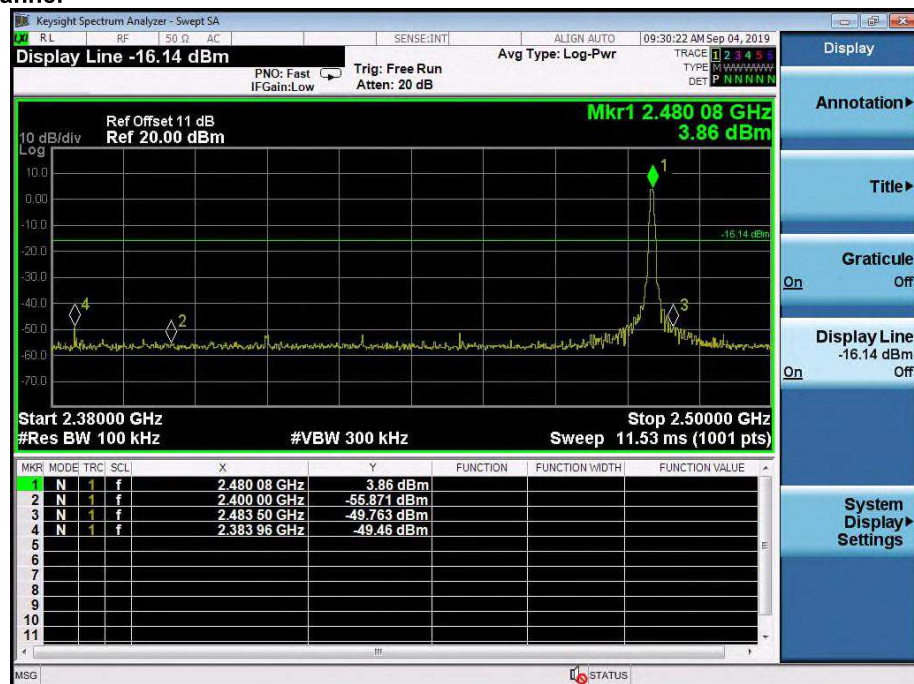


## Test Plot 100kHz RBW of Band Edge,T8000D ANT

### Low Channel

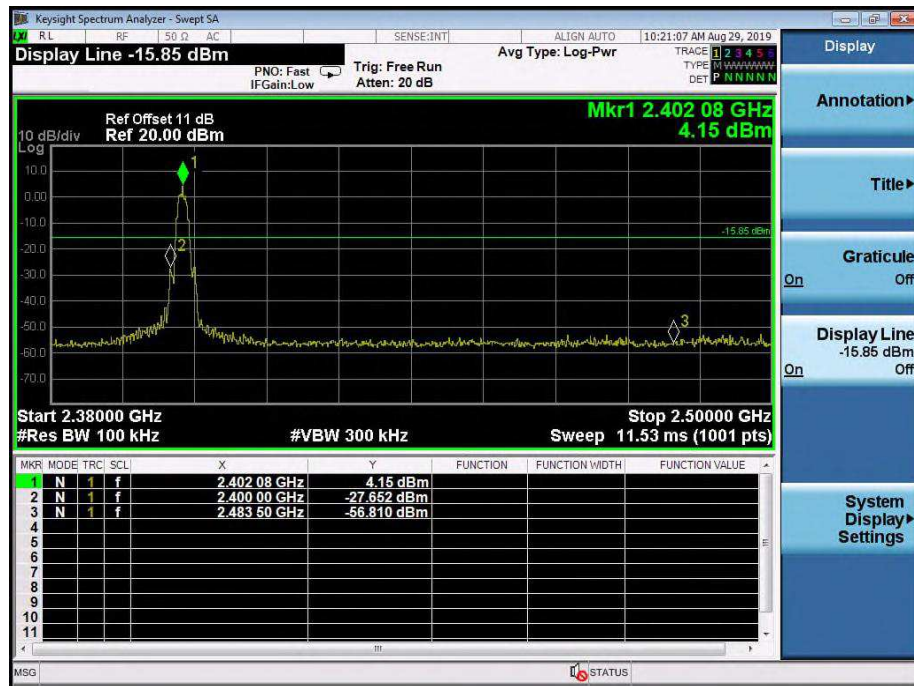


### High Channel

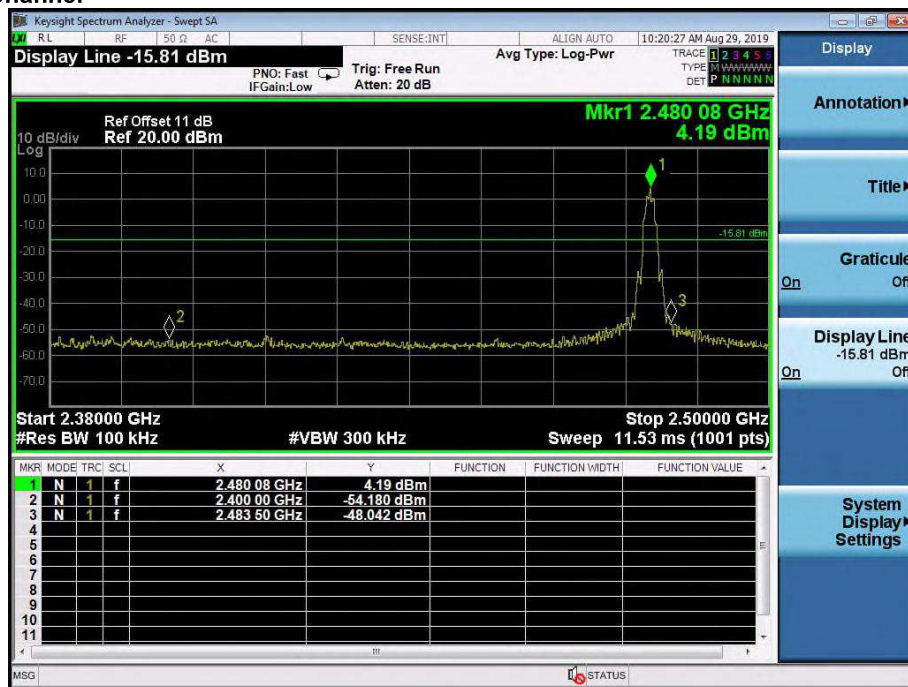


## Test Plot 100kHz RBW of Band Edge,T8000D BLE

### Low Channel



### High Channel



### 5.1.6 Spurious Emission

**RESULT:****Passed**

|                   |   |                                                                                                                                                                                                                                                                                                               |
|-------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : | LP0002(2018): 3.10.1.5                                                                                                                                                                                                                                                                                        |
| Basic standard    | : | ANSI C63.10: 2013, LP0002(2008) Appendix II                                                                                                                                                                                                                                                                   |
| Limits            | : | Radiated emissions which fall in the restricted bands, as defined in LP0002(2018): 2.7 , must comply with the radiated emission limits specified in LP0002(2018): 2.8<br>Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in LP0002(2018): 2.8 |
| Kind of test site | : | 3m Semi-Anechoic Chamber                                                                                                                                                                                                                                                                                      |

**Test setup**

|                |   |                   |
|----------------|---|-------------------|
| Test Channel   | : | Low/ Middle/ High |
| Operation mode | : | A, B              |

For details refer to Appendix D.

The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

Factor (dB/m)=Antenna Factor(dB/m)+Cable loss (dB)

Level(dBuV/m)=Reading(dBuV)+ Factor(dB/m)

## 5.2 Mains Emissions

### 5.2.1 Mains Conducted Emissions

**RESULT:****Passed**

|                   |   |                                                            |
|-------------------|---|------------------------------------------------------------|
| Test standard     | : | LP0002 (2018): 2.3                                         |
| Limits            | : | Mains Conducted emissions as defined in<br>above standards |
| Kind of test site | : | Shielded Room                                              |

**Test setup**

|                |   |        |
|----------------|---|--------|
| Test Channel   | : | Middle |
| Operation mode | : | A      |

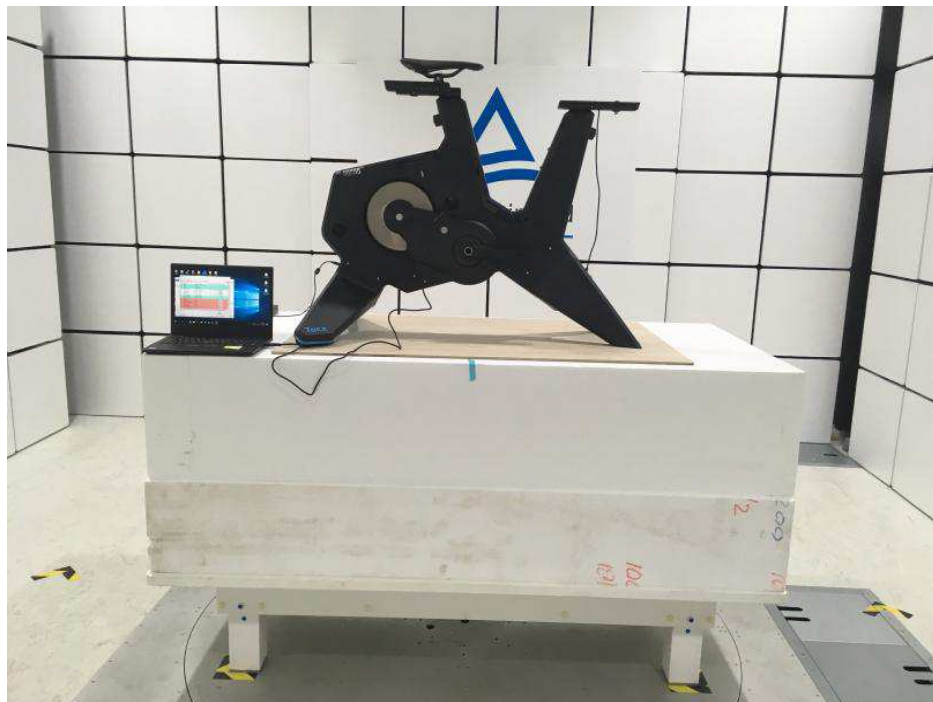
Remark: For details refer to Appendix D.

## 6. Photographs of the Test Set-Up, T8000

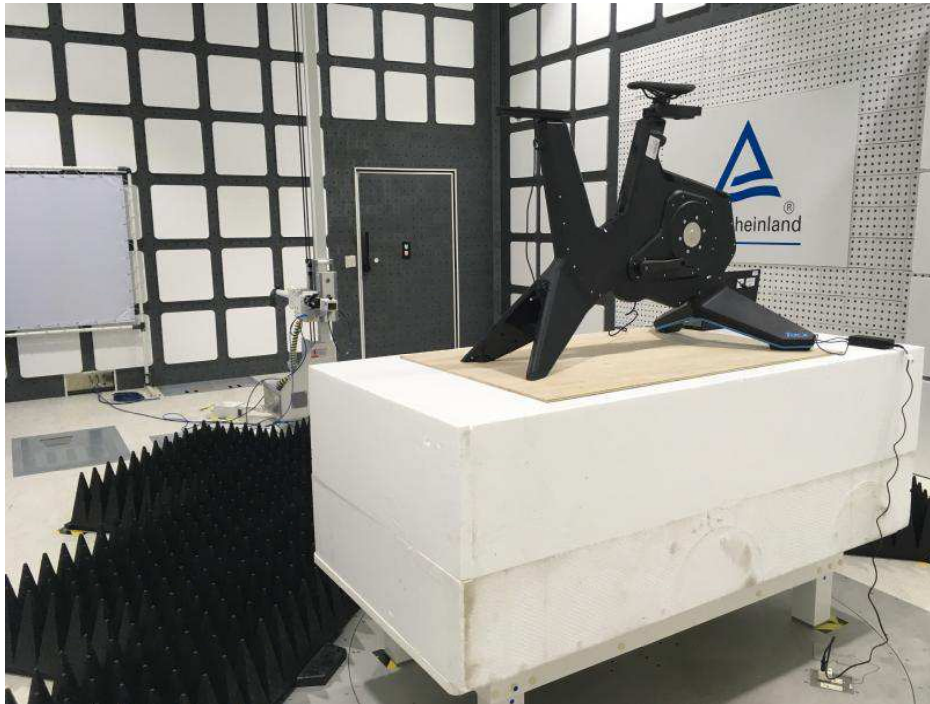
**Photograph 1: Set-up for Spurious Emissions (Front View 1)**



**Photograph 2: Set-up for Spurious Emissions (Front View 2)**



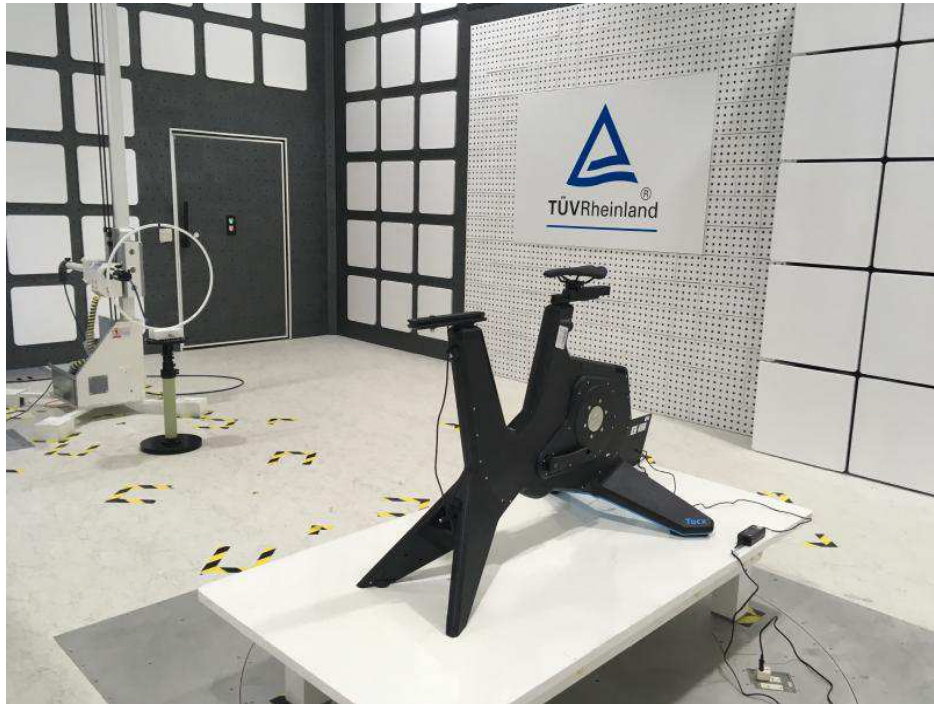
**Photograph 3: Set-up for Spurious Emissions (Back View 1)**



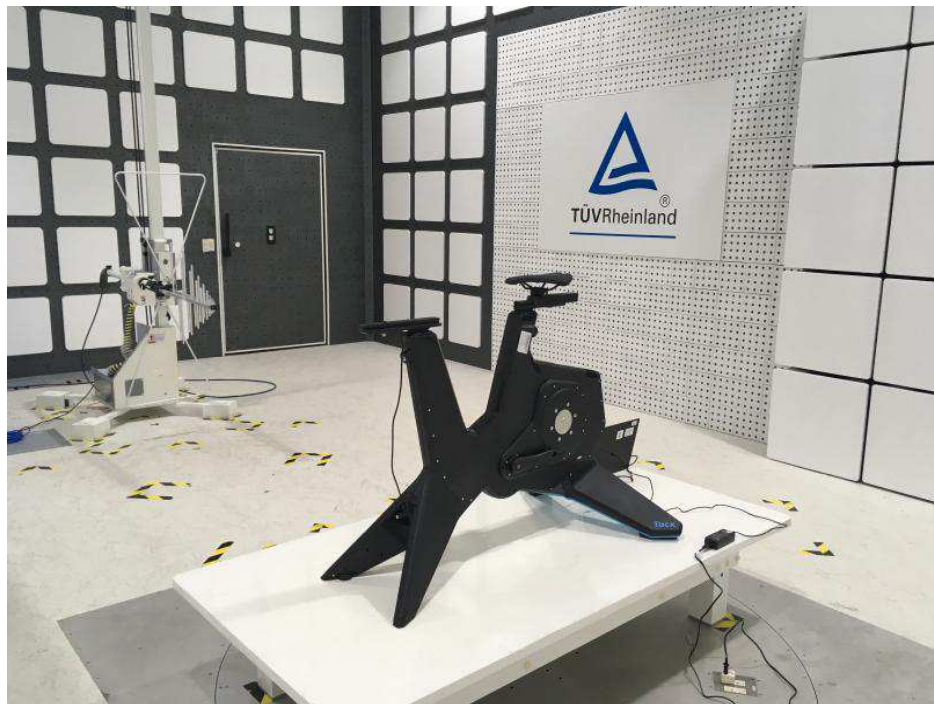
**Photograph 4: Set-up for Spurious Emissions (Back View 2)**



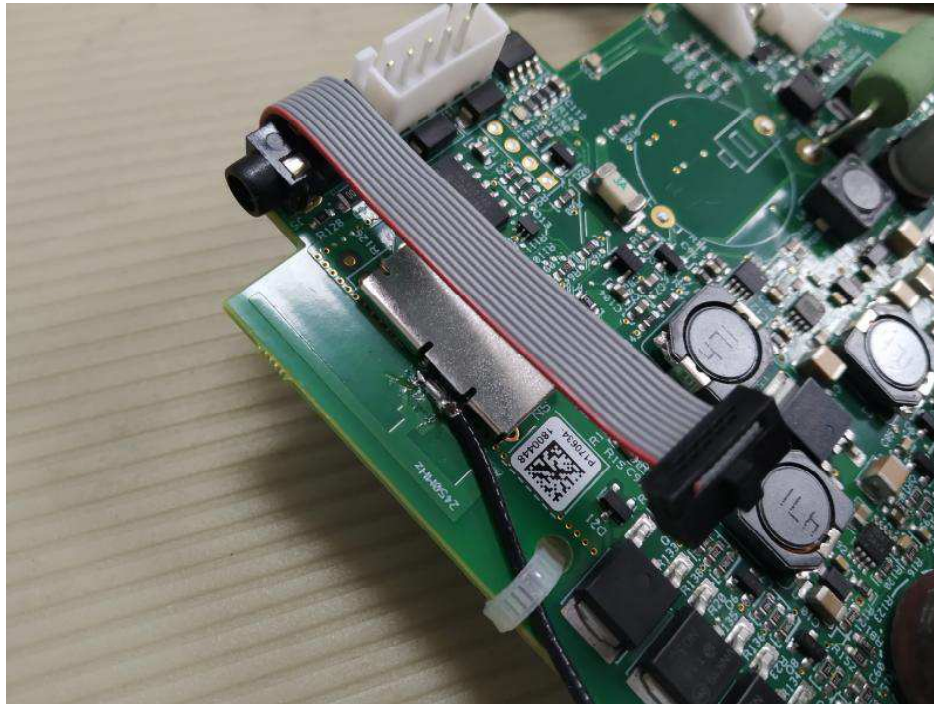
**Photograph 5: Set-up for Spurious Emissions (Back View 3)**



**Photograph 6: Set-up for Spurious Emissions (Back View 4)**



**Photograph 7: Set-up for Conducted testing**



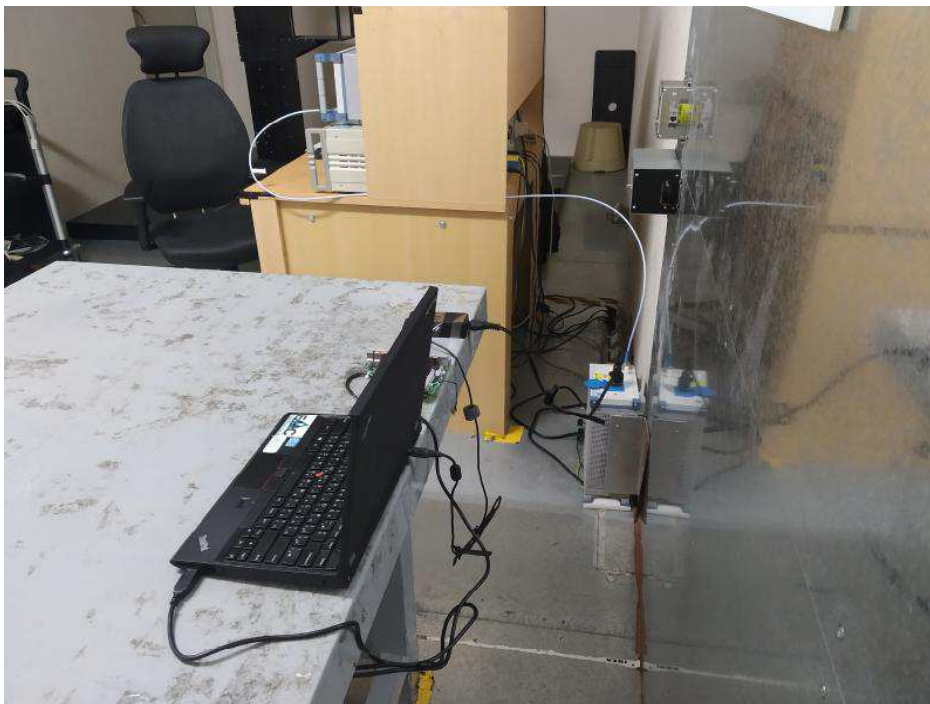
**Photograph 8: Set-up for Conducted testing**



**Photograph 9: Set-up for AC Mains (View 1)**

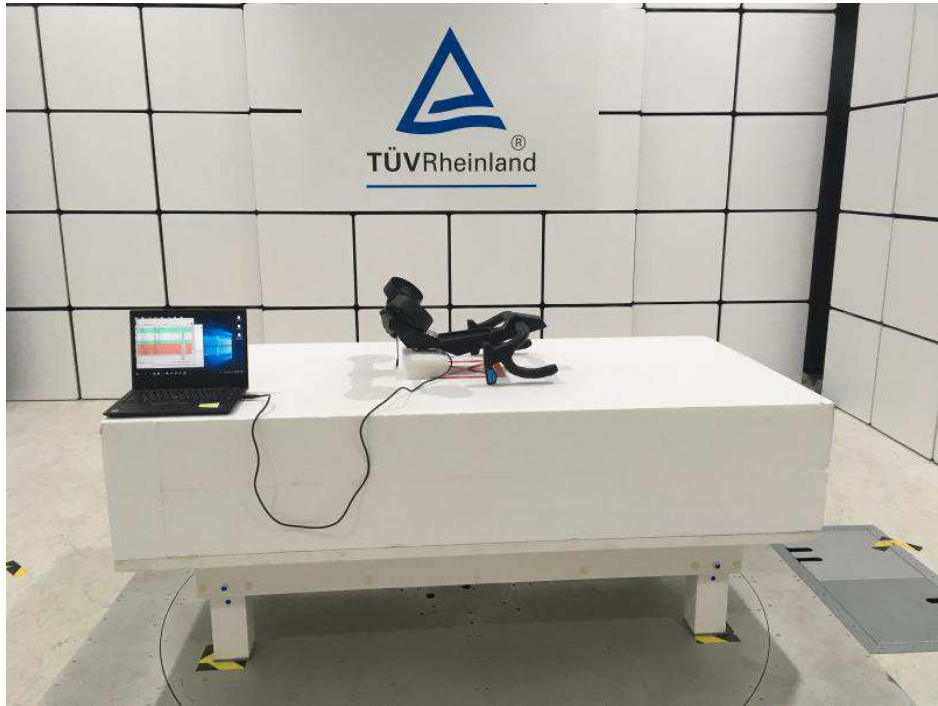


**Photograph 10: Set-up for AC Mains (View 2)**



## 7. Photographs of the Test Set-Up, T8000D

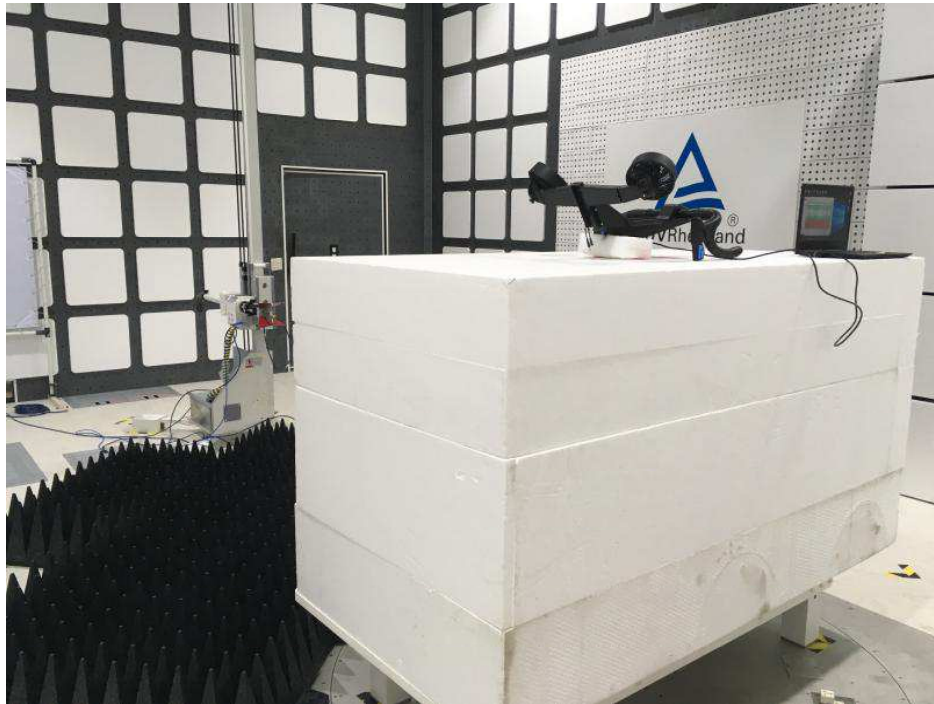
**Photograph 11: Set-up for Spurious Emissions (Front View 1)**



**Photograph 12: Set-up for Spurious Emissions (Front View 2)**



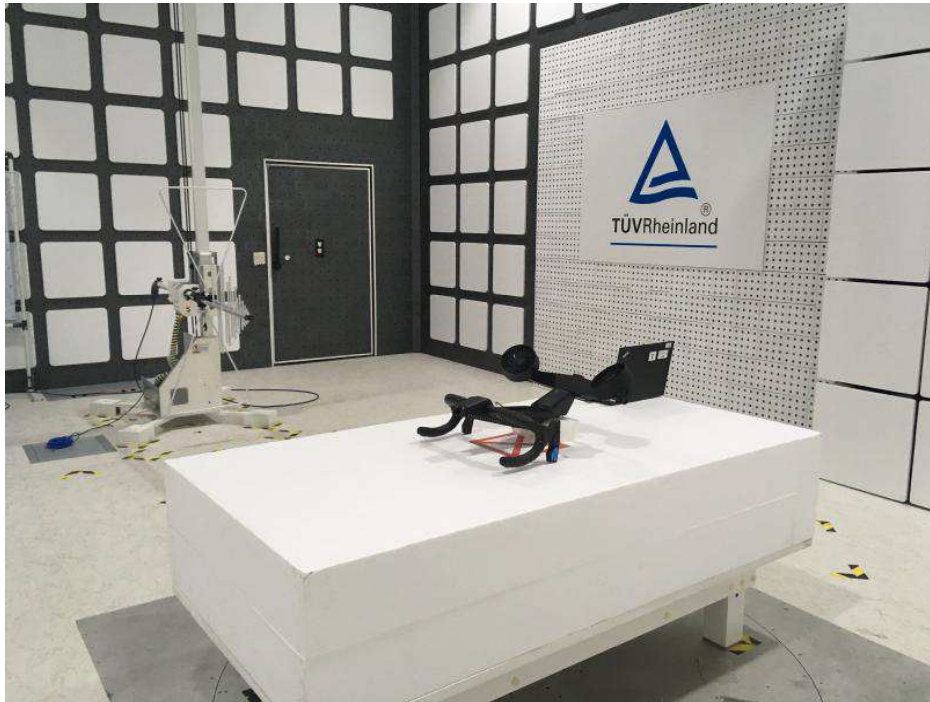
**Photograph 13: Set-up for Spurious Emissions (Back View 1)**



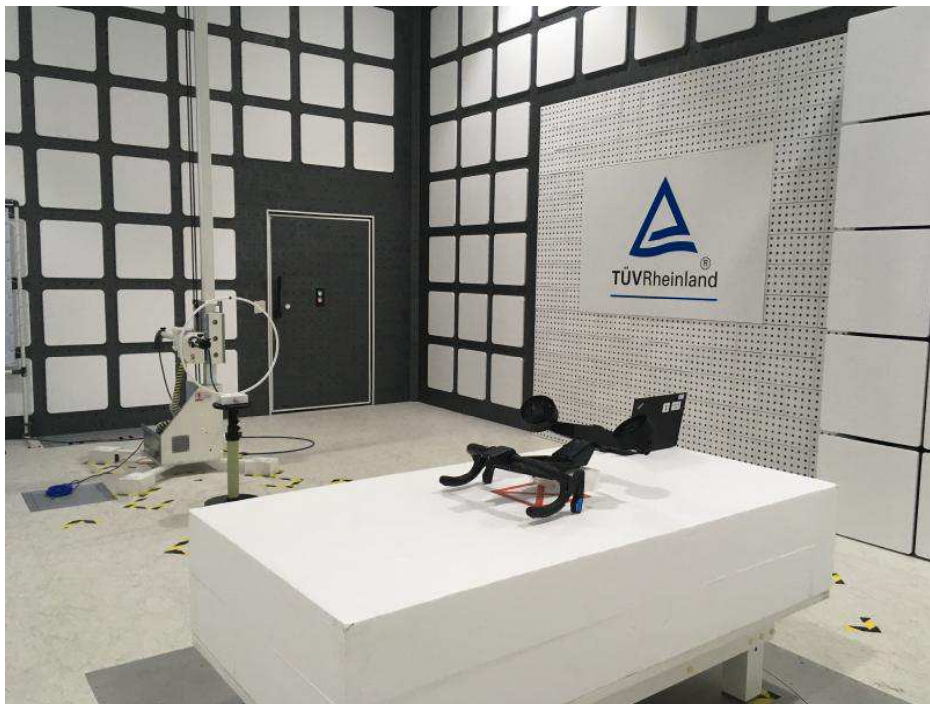
**Photograph 14: Set-up for Spurious Emissions (Back View 2)**



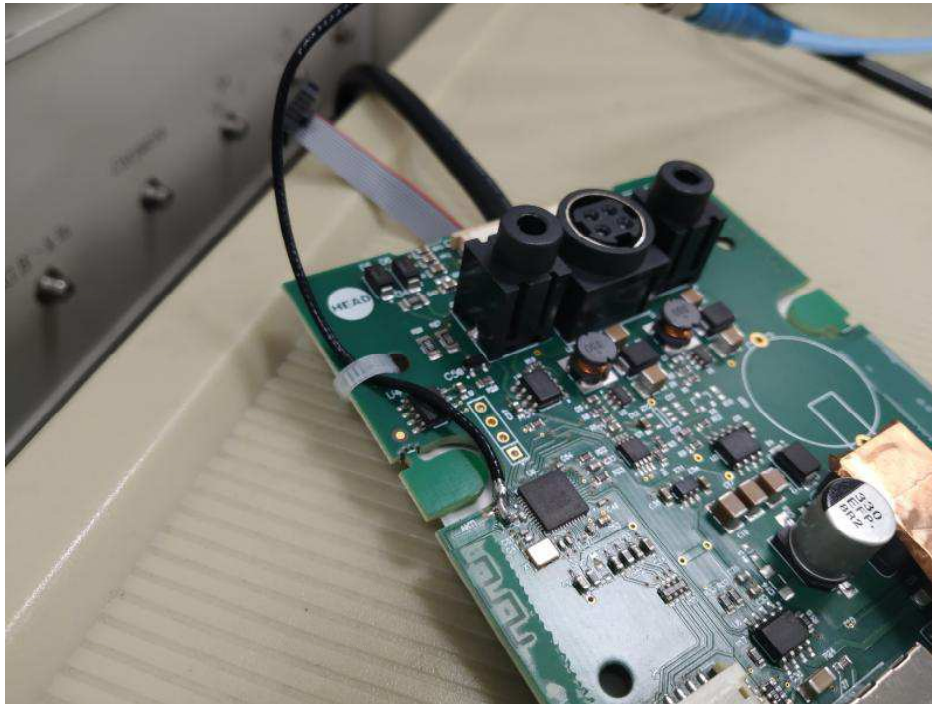
**Photograph 15: Set-up for Spurious Emissions (Back View 3)**



**Photograph 16: Set-up for Spurious Emissions (Back View 3)**



**Photograph 17: Set-up for Conducted testing (View 1)**



**Photograph 18: Set-up for Conducted testing (View 2)**



**Photograph 19: Set-up for AC Mains (View 1)**



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