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# TEST REPORT

| Test Result:              | Pass*                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Date of Issue:            | 2023-06-14                                                                                                                      |
| Date of Test:             | 2023-06-01 to 2023-06-05                                                                                                        |
| Date of Receipt:          | 2023-05-19                                                                                                                      |
|                           | RSS-Gen Issue 5 Amendment 2 (February 2021)                                                                                     |
|                           | RSS-247 Issue 2, February 2017                                                                                                  |
| Standard(s) :             | 47 CFR Part 15, Subpart C 15.247                                                                                                |
| Trade Mark:               | FOREO                                                                                                                           |
| Remark:                   | Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical. |
| Model No.:                | BEAR™ 2, BEAR™ 2 go, BEAR™ 2 eyes & lips, BEAR™ 2 body                                                                          |
| EUT Name:                 | Microcurrent Toning Device                                                                                                      |
| Equipment Under Test (EUT | ·):                                                                                                                             |
| Address of Factory:       | No.58 Linsheng Road,Tinglin Town, Jinshan District, Shanghai, China                                                             |
| Factory:                  | VIS (Shanghai) Technology Limited                                                                                               |
| Address of Manufacturer:  | KARLAVÄGEN 41, 114 31 STOCKHOLM, SWEDEN                                                                                         |
| Manufacturer:             | FOREO AB                                                                                                                        |
| Address of Applicant:     | No.58 Linsheng Road,Tinglin Town, Jinshan District, Shanghai, China                                                             |
| Applicant:                | VIS (Shanghai) Technology Limited                                                                                               |
| IC:                       | 25565-BEAR2                                                                                                                     |
| FCC ID:                   | 2AT72-BEAR2                                                                                                                     |
| Application No.:          | SHCR2305001033HS                                                                                                                |

\* In the configuration tested, the EUT complied with the standards specified above.

parlan shan

Parlam Zhan Laboratory Manager



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| Revision Record |             |            |        |  |  |
|-----------------|-------------|------------|--------|--|--|
| Version         | Description | Date       | Remark |  |  |
| 00              | Original    | 2023-06-14 | /      |  |  |
|                 |             |            |        |  |  |
|                 |             |            |        |  |  |

| Authorized for issue by: |                          |   |
|--------------------------|--------------------------|---|
|                          | Bil WN                   |   |
|                          | Bill Wu/Project Engineer | _ |
|                          | Parlam zhan              |   |
|                          | Parlam Zhan / Reviewer   | — |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                                    |                    |        |                         |
|--------------------------------------|----------------------------------------------------|--------------------|--------|-------------------------|
| ltem                                 | FCC Requirement                                    | IC Requirement     | Method | Result                  |
| Antenna Requirement                  | 47 CFR Part 15,<br>Subpart C 15.203 &<br>15.247(c) | RSS-Gen Clause 6.8 | N/A    | Customer<br>Declaration |

## N/A: Not applicable

| Radio Spectrum Matter Part                                  |                                                    |                                              |                                              |        |  |
|-------------------------------------------------------------|----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------|--|
| ltem                                                        | FCC Requirement                                    | IC Requirement                               | Method                                       | Result |  |
| Minimum 6dB<br>Bandwidth                                    | 47 CFR Part 15,<br>Subpart C 15.247a(2)            | RSS-247 Clause 5.2(a)                        | ANSI C63.10<br>(2013) Section<br>11.8.1      | Pass   |  |
| Conducted Peak<br>Output Power                              | 47 CFR Part 15,<br>Subpart C 15.247(b)(3)          | RSS-247 Clause 5.4(d)                        | ANSI C63.10<br>(2013) Section<br>11.9.1      | Pass   |  |
| Power Spectrum<br>Density                                   | 47 CFR Part 15,<br>Subpart C 15.247(e)             | RSS-247 Clause 5.2(b)                        | ANSI C63.10<br>(2013) Section<br>11.10.2     | Pass   |  |
| Conducted Band<br>Edges Measurement                         | 47 CFR Part 15,<br>Subpart C 15.247(d)             | RSS-247 Clause 5.5                           | ANSI C63.10<br>(2013) Section<br>11.13.3.2   | Pass   |  |
| Conducted Spurious<br>Emissions                             | 47 CFR Part 15,<br>Subpart C 15.247(d)             | RSS-247 Clause 5.5                           | ANSI C63.10<br>(2013) Section<br>11.11       | Pass   |  |
| Radiated Emissions<br>which fall in the<br>restricted bands | 47 CFR Part 15,<br>Subpart C 15.209 &<br>15.247(d) | RSS-247 Section 3.3 &<br>RSS-Gen Section 8.9 | ANSI C63.10<br>(2013) Section<br>6.10.5      | Pass   |  |
| Radiated Spurious<br>Emissions                              | 47 CFR Part 15,<br>Subpart C 15.209 &<br>15.247(d) | RSS-247 Section 3.3 &<br>RSS-Gen Section 8.9 | ANSI C63.10<br>(2013) Section<br>6.4,6.5,6.6 | Pass   |  |
| 99% Bandwidth                                               | -                                                  | RSS-Gen Section 6.7                          | ANSI C63.10<br>Section 6.9.3                 | Pass   |  |

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model BEAR<sup>™</sup> 2, BEAR<sup>™</sup> 2 eyes & lips, BEAR<sup>™</sup> 2 body was tested.

The differences include appearance and firmware (Specifically, it refers to the different gears of the product. BEAR<sup>TM</sup> 2 and BEAR<sup>TM</sup> 2 body have 5 gears, BEAR<sup>TM</sup> 2 go and BEAR<sup>TM</sup> 2 eyes & lips have 3 gears, and BEAR<sup>TM</sup> 2's gears can cover other models. The motor vibration intensity varies with different gears, which will not affect the RF characteristics), and the BEAR<sup>TM</sup> 2 body's motor is different from the other three models.



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| the co | (S5-CS) Note: Service Servic |     |

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| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 <i>1</i><br><i>10.1</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 93<br>93<br>93<br>93                                                                                                                                         |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1.1<br>10.1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 93<br>93<br>93<br>93<br>94                                                                                                                                   |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 /<br>10.1.1<br>10.1.2<br>10.2 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH<br><i>Test Result</i><br>2 <i>Test Graphs</i><br>APPENDIX B: Occupied Channel Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 93<br>93<br>93<br>94<br>97                                                                                                                                   |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 /<br>10.1.2<br>10.2 /<br>10.2 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result<br>2 Test Graphs<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH<br>1 Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 93<br>93<br>93<br>93<br>94<br>97<br>97                                                                                                                       |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result<br>Test Graphs<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH<br>Test Result<br>Test Result<br>Test Result<br>Test Graphs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93<br>93<br>93<br>94<br>97<br>97<br>98                                                                                                                       |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX.<br>APPENDIX A: DTS BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 93<br>93<br>93<br>94<br>97<br>97<br>98<br>.101                                                                                                               |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result<br>Test Graphs<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH<br>Test Result<br>Test Result<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER<br>Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 93<br>93<br>93<br>94<br>97<br>97<br>97<br>98<br>.101<br>.101                                                                                                 |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.3 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>NDIX<br>APPENDIX A: DTS BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 93<br>93<br>93<br>94<br>97<br>97<br>97<br>98<br>.101<br>.101<br>.102                                                                                         |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 /<br>10.1 /<br>10.1 /<br>10.1 /<br>10.2 /<br>10.2 /<br>10.2 /<br>10.3 /<br>10.3 /<br>10.3 /<br>10.3 /<br>10.3 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 93<br>93<br>93<br>94<br>97<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105                                                                                 |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 /<br>10.1 /<br>10.1 /<br>10.2 /<br>10.2 /<br>10.2 /<br>10.3 /<br>10.3 /<br>10.3 /<br>10.3 /<br>10.3 /<br>10.4 /<br>10.4 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX.<br>APPENDIX A: DTS BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 93<br>93<br>93<br>97<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105<br>.105                                                                               |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.3 1<br>10.4 1<br>10.4 1<br>10.4 1<br>10.4 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result<br>Test Result<br>Test Graphs<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH<br>Test Result<br>Test Result<br>Test Graphs<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER<br>Test Result<br>Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 93<br>93<br>93<br>94<br>97<br>97<br>98<br>.101<br>.101<br>.101<br>.105<br>.105<br>.106                                                                       |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.4 1<br>10.4 1<br>10.4 1<br>10.4 1<br>10.5 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX<br>APPENDIX A: DTS BANDWIDTH<br>Test Result<br>Test Result<br>Test Result<br>Test Result<br>Test Result<br>Test Result<br>Test Graphs<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER<br>Test Result<br>Test Result | 93<br>93<br>93<br>94<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105<br>.105<br>.106<br>.109                                                               |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.4 1<br>10.4 1<br>10.4 1<br>10.5 1<br>10.5 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>INDIX.<br>APPENDIX A: DTS BANDWIDTH.<br>Test Result.<br>Test Result.<br>Prest Graphs.<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH.<br>Test Result.<br>Test Result.<br>Test Graphs.<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER.<br>Test Result.<br>Test Result.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 93<br>93<br>93<br>94<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105<br>.105<br>.106<br>.109<br>.109                                                       |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.4 1<br>10.4 1<br>10.4 1<br>10.5 | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX.<br>APPENDIX A: DTS BANDWIDTH<br>1 Test Result<br>2 Test Graphs<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH<br>1 Test Result<br>2 Test Graphs<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER<br>1 Test Result<br>2 Test Graphs<br>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY<br>1 Test Result<br>2 Test Graphs<br>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY<br>1 Test Result<br>2 Test Graphs<br>APPENDIX E: BAND EDGE MEASUREMENTS<br>1 Test Result<br>2 Test Graphs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 93<br>93<br>93<br>94<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105<br>.105<br>.105<br>.106<br>.109<br>.109<br>.110                                       |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.3 1<br>10.3 1<br>10.4 1<br>10.4 1<br>10.5 1<br>10.5 1<br>10.5 1<br>10.6 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX.<br>APPENDIX A: DTS BANDWIDTH.<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH.<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER.<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX E: BAND EDGE MEASUREMENTS.<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX E: BAND EDGE MEASUREMENTS.<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX E: BAND EDGE MEASUREMENTS.<br>1 Test Result.<br>2 Test Graphs.<br>APPENDIX F: CONDUCTED SPURIOUS EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 93<br>93<br>93<br>94<br>97<br>97<br>97<br>97<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105<br>.105<br>.106<br>.109<br>.109<br>.110<br>.112               |
| 8 TEST<br>9 EUT (<br>10 APPE<br>10.1 1<br>10.1 1<br>10.1 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.2 1<br>10.3 1<br>10.3 1<br>10.4 1<br>10.4 1<br>10.4 1<br>10.5 | SETUP PHOTO<br>CONSTRUCTIONAL DETAILS (EUT PHOTOS)<br>ENDIX<br>APPENDIX A: DTS BANDWIDTH<br>1 Test Result<br>2 Test Graphs.<br>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH<br>1 Test Result<br>2 Test Graphs<br>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER<br>1 Test Result<br>2 Test Graphs<br>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY<br>1 Test Result<br>2 Test Graphs<br>APPENDIX E: BAND EDGE MEASUREMENTS<br>1 Test Result<br>2 Test Graphs<br>APPENDIX E: BAND EDGE MEASUREMENTS<br>1 Test Result<br>2 Test Graphs<br>APPENDIX F: CONDUCTED SPURIOUS EMISSION<br>1 Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93<br>93<br>93<br>94<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>98<br>.101<br>.101<br>.102<br>.105<br>.105<br>.106<br>.109<br>.109<br>.110<br>.112<br>.112 |



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## 4 General Information

## 4.1 Details of E.U.T.

| Power supply:        | DC 3.7V Rechargeable battery           |
|----------------------|----------------------------------------|
| Test Voltage:        | DC 3.7V                                |
|                      | BEAR™ 2: BEAR2 F.REV.A                 |
| S/N:                 | BEAR™ 2 eyes & lips: BEAR2eyes F.REV.A |
|                      | BEAR™ 2 body: BEAR2body F.REV.A        |
|                      | BEAR™ 2: F45KQT52gJDq23                |
| Firmware Version:    | BEAR™ 2 eyes & lips: 3t7nDCA6pJDgJ1    |
|                      | BEAR™ 2 body: E38Bkd67cD4aPz           |
| Operation Frequency: | 2402MHz to 2480MHz                     |
| Bluetooth Version:   | V5.0 LE                                |
| Data rate:           | 1Mbps,2Mbps                            |
| Modulation Type:     | GFSK                                   |
| Number of Channels:  | 40                                     |
| Channel Spacing:     | 2MHz                                   |
| Antenna Type:        | Ceramic Antenna                        |
| Antenna Gain:        | 0.44dBi (Provided by manufacturer)     |

## 4.2 Description of Support Units

| Description                  | Manufacturer | Model No.    | Serial No. |
|------------------------------|--------------|--------------|------------|
| Laptop                       | LENOVO       | L460         | -          |
| Serial port adapter<br>plate | -            | Test Plate 3 | -          |

## 4.3 Power level setting using in test

| Channel | BLE     |
|---------|---------|
| 0       | Default |
| 19      | Default |
| 39      | Default |



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| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | 8.4 x 10 <sup>-8</sup>  |
| 2   | Timeout                         | 2s                      |
| 3   | Duty cycle                      | 0.4%                    |
| 4   | Occupied Bandwidth              | 3%                      |
| 5   | RF conducted power              | 0.6dB                   |
| 6   | RF power density                | 2.9dB                   |
| 7   | Conducted Spurious emissions    | 0.75dB                  |
| 8   | DE Dedicted newer               | 5.2dB (Below 1GHz)      |
| 0   | RF Radiated power               | 5.9dB (Above 1GHz)      |
|     |                                 | 4.2dB (Below 30MHz)     |
| 0   | Dedicted Sourieus omission test | 4.5dB (30MHz-1GHz)      |
| 9   | Radiated Spurious emission test | 5.1dB (1GHz-6GHz)       |
|     |                                 | 5.4dB (6GHz-18GHz)      |
| 10  | Temperature test                | 1°C                     |
| 11  | Humidity test                   | 3%                      |
| 12  | Supply voltages                 | 1.5%                    |
| 13  | Time                            | 3%                      |

## 4.4 Measurement Uncertainty

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 4.5 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted. Note:

SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).
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## 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

## A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

## • FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

## ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

## VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.7 Deviation from Standards None

## 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| Equipment                 | Manufacturer | Model No                      | Inventory No          | Cal Date   | Cal Due Date |
|---------------------------|--------------|-------------------------------|-----------------------|------------|--------------|
| RF Conducted Test         |              |                               | ····· , ···           |            |              |
| Spectrum Analyzer         | R&S          | FSP-30                        | SHEM002-1             | 2022-12-20 | 2023-12-19   |
| Spectrum Analyzer         | Keysight     | N9020B                        | SHEM241-1             | 2022-12-20 | 2023-12-19   |
| Spectrum Analyzer         | Agilent      | N9020A                        | SHEM181-1             | 2022-08-02 | 2023-08-01   |
| Signal Generator          | R&S          | SMR20                         | SHEM006-1             | 2022-08-02 | 2023-08-01   |
| Signal Generator          | Agilent      | N5182A                        | SHEM182-1             | 2022-08-02 | 2023-08-01   |
| Communication Tester      | R&S          | CMW270                        | SHEM183-1             | 2022-07-25 | 2023-07-24   |
| Communication Tester      | R&S          | CMW500                        | SHEM268-1             | 2022-07-25 | 2023-07-24   |
| Power Sensor              | Keysight     | U2021XA * 4                   | SHEM184-1             | 2022-08-02 | 2023-08-01   |
| Splitter                  | Anritsu      | MA1612A                       | SHEM185-1             | /          | /            |
| Coupler                   | e-meca       | 803-S-1                       | SHEM186-1             | /          | /            |
| High-low Temp Cabinet     | Suzhou Zhihe | TL-40                         | SHEM087-1             | 2022-11-08 | 2024-11-07   |
| AC Power Stabilizer       | APC          | KDF-31020T-V0-F0              | SHEM216-1             | 2022-12-20 | 2023-12-19   |
| DC Power Supply           | MCH          | MCH-303A                      | SHEM210-1             | 2022-12-20 | 2023-12-19   |
| Conducted test Cable      | /            | RF01~RF04                     | /                     | 2022-12-20 | 2023-12-19   |
| Switcher                  | Tonscend     | JS0806                        | SHEM184-1             | 2022-08-02 | 2023-08-01   |
| Test software             | Tonscend     | JS Tonscend<br>BT/WIFI System | Version: 2.6          | /          | /            |
| Coaxial Cable             | TST          |                               | SHEM263-1             | 2022-08-02 | 2023-08-01   |
| Test software             | TST          | TST PASS                      | Version: 2.0          | /          | /            |
| RF Radiated Test          | •            | •                             |                       |            |              |
| EMI test Receiver         | R&S          | ESU40                         | SHEM051-1             | 2022-12-20 | 2023-12-19   |
| Spectrum Analyzer         | R&S          | FSP-30                        | SHEM002-1             | 2022-12-20 | 2023-12-19   |
| Communication Tester      | R&S          | CMW500                        | SHEM268-1             | 2022-07-25 | 2023-07-24   |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck  | FMZB1519                      | SHEM135-1             | 2022-12-20 | 2023-12-19   |
| Antenna (25MHz-2GHz)      | Schwarzbeck  | VULB9168                      | SHEM048-1             | 2021-09-11 | 2023-09-10   |
| Antenna (25MHz-2GHz)      | Schwarzbeck  | VULB9168                      | SHEM202-1             | 2022-05-07 | 2024-05-06   |
| Horn Antenna (1-18GHz)    | Schwarzbeck  | HF906                         | SHEM009-1             | 2022-08-11 | 2024-08-10   |
| Horn Antenna (1-18GHz)    | Schwarzbeck  | BBHA9120D                     | SHEM050-1             | 2021-09-18 | 2023-09-17   |
| Horn Antenna (14-40GHz)   | Schwarzbeck  | BBHA 9170                     | SHEM049-1             | 2021-09-18 | 2023-09-17   |
| Pre-Amplifier             | HP           | 8447D                         | SHEM236-1             | 2022-08-02 | 2023-08-01   |
| High-amplifier (14-40GHz) | Schwarzbeck  | 10001                         | SHEM049-2             | 2022-12-20 | 2023-12-19   |
| Band Filter               | LORCH        | 9BRX-875/X150                 | SHEM156-1             | /          | /            |
| Band Filter               | LORCH        | 13BRX-1950/X500               | SHEM083-2             | /          | /            |
| Band Filter               | LORCH        | 5BRX-2400/X200                | SHEM155-1             | /          | /            |
| Band Filter               | LORCH        | 5BRX-5500/X1000               | SHEM157-2             | /          | /            |
| High pass Filter          | Wainwright   | WHK3.0/18G                    | SHEM157-1             | /          | /            |
| High pass Filter          | Wainwright   | WHKS1700                      | SHEM157-3             | /          | /            |
| Semi/Fully Anechoic       | ST           | 11*6*6M                       | SHEM078-2             | 2021-05-25 | 2024-05-24   |
| RE test Cable             | /            | RE01, RE02, RE06              | /                     | 2023-01-07 | 2024-01-06   |
| Test software             | ESE          | E3                            | Version:<br>6.111221a | /          | /            |



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## 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

## 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

## 6.1.2 Conclusion

#### Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:

The antenna is ceramic antenna and no consideration of replacement. The best case gain of the antenna is 0.44 dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

## 7.1 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
|                      | 1 for ≥50 hopping channels                             |
| 902-928              | 0.25 for 25≤ hopping channels <50                      |
|                      | 1 for digital modulation                               |
|                      | 1 for ≥75 non-overlapping hopping channels             |
| 2400-2483.5          | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

## 7.1.1 E.U.T. Operation

| Operating Enviror | nment:  |           |           |                       |      |      |
|-------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature:      | 24.6 °C | Humidity: | 63.1 % RH | Atmospheric Pressure: | 1010 | mbar |

## 7.1.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                             |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |



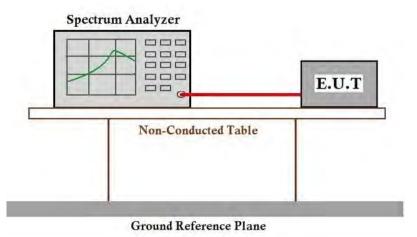
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## 7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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## 7.2 Minimum 6dB Bandwidth

| Test Requirement | 47 CFR Part 15, Subpart C 15.247a(2) |
|------------------|--------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 11.8.1    |
| Limit:           | ≥500 kHz                             |

## 7.2.1 E.U.T. Operation

Operating Environment:

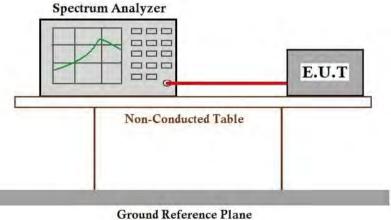
Temperature: 24.6 °C Humidity: 63.1 % RH A

Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                             |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |

#### 7.2.3 Test Setup Diagram



Ground Reference I fai

## 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.3 Power Spectrum Density

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(e) |
|------------------|-------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 11.10.2  |

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

## 7.3.1 E.U.T. Operation

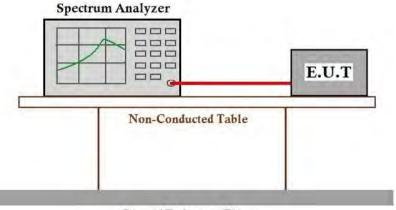
Operating Environment:

| Temperature: | 24.6 °C | Humidity: | 63.2 % RH | Atmospheric Pressure: | 1010 | mbar |
|--------------|---------|-----------|-----------|-----------------------|------|------|

## 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                             |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |

## 7.3.3 Test Setup Diagram



Ground Reference Plane

## 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.4 Conducted Band Edges Measurement

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d)  |
|------------------|--------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 11.13.3.2 |

#### Limit:

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).

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

Humidity: 63.3 % RH

Atmospheric Pressure: 1010 mbar

## 7.4.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                             |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |



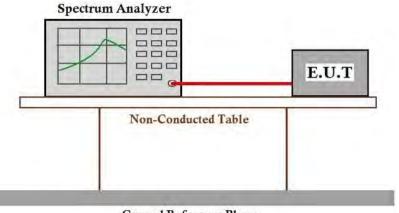
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## 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.5 Conducted Spurious Emissions

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d) |
|------------------|-------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 11.11    |

#### Limit:

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).

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

Humidity: 63.4 % RH

Atmospheric Pressure: 1010 mbar

## 7.5.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                             |  |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|--|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |  |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |  |



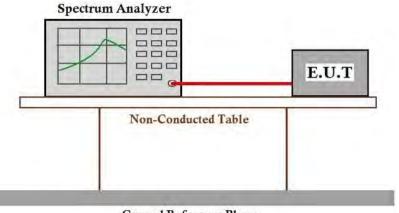
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#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.6 Radiated Emissions which fall in the restricted bands

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|------------------|-------------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 6.10.5         |

Limit:

| Frequency(MHz) | Field<br>strength(microvolts/meter) | Measurement<br>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                               |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

## 7.6.1 E.U.T. Operation

| Operating Enviror | nment:  |           |           |                       |      |      |
|-------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature:      | 24.7 °C | Humidity: | 63.5 % RH | Atmospheric Pressure: | 1010 | mbar |

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.             |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.             |
| Final test               | 02           | TX mode(1Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.        |
| Final test               | 03           | TX mode(2Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.        |
| Final test               | 04           | TX mode(1Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation. |
| Final test               | 05           | TX mode(2Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation. |

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## 7.6.2 Test Mode Description



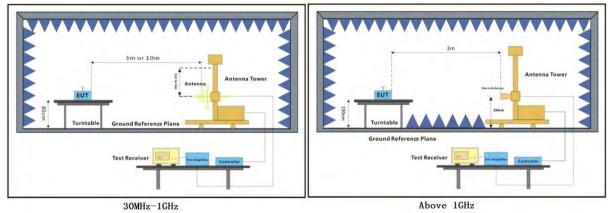
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|-----------|----------------------|
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#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

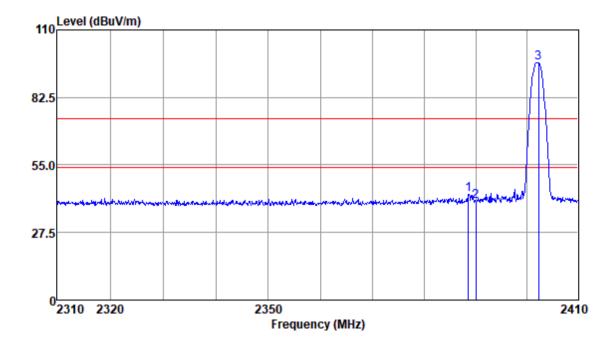


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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2388.55 | 46.30 | 28.80 | 3.13 | 35.18 | 43.05             | 74.00  | -30.95 | Peak   |
| 2390.00 | 43.27 | 28.80 | 3.13 | 35.18 | 40.02             | 74.00  | -33.98 | Peak   |
| 2402.25 | 99.90 | 28.85 | 3.13 | 35.19 | 96.69             | 74.00  | 22.69  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



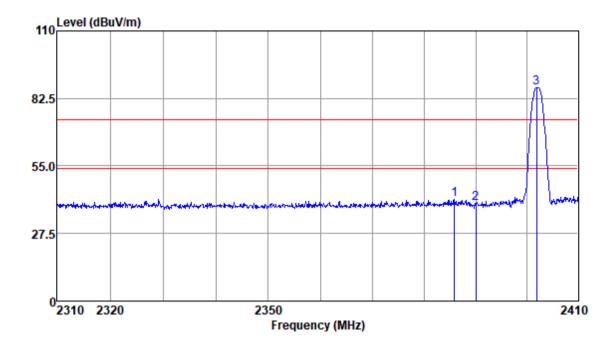
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#### Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2385.81 | 44.61 | 28.80 | 3.13 | 35.18 | 41.36             | 74.00  | -32.64 | Peak   |
| 2390.00 | 42.85 | 28.80 | 3.13 | 35.18 | 39.60             | 74.00  | -34.40 | Peak   |
| 2401.84 | 90.24 | 28.85 | 3.13 | 35.19 | 87.03             | 74.00  | 13.03  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

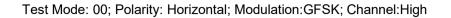


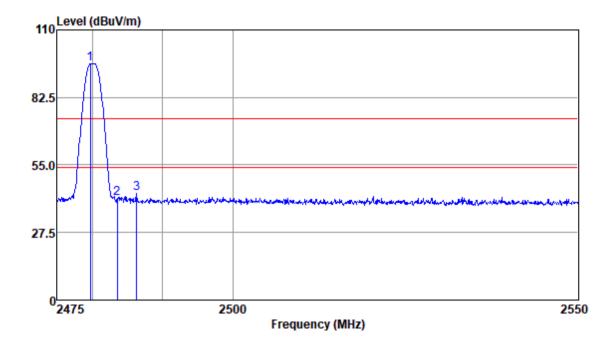
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#### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.73 | 99.12 | 29.08 | 3.20 | 35.25 | 96.15             | 74.00  | 22.15  | Peak   |
| 2483.50 | 44.29 | 29.09 | 3.20 | 35.26 | 41.32             | 74.00  | -32.68 | Peak   |
| 2486.26 | 46.37 | 29.09 | 3.20 | 35.26 | 43.40             | 74.00  | -30.60 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

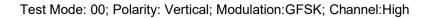


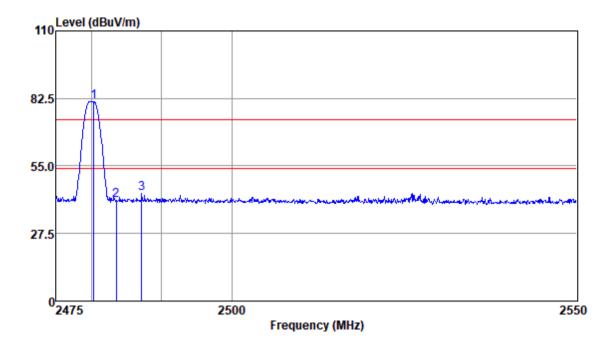
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## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2480.33 | 84.30 | 29.08 | 3.20 | 35.25 | 81.33             | 74.00  | 7.33   | Peak   |
| 2483.50 | 43.86 | 29.09 | 3.20 | 35.26 | 40.89             | 74.00  | -33.11 | Peak   |
| 2487.15 | 46.73 | 29.09 | 3.20 | 35.26 | 43.76             | 74.00  | -30.24 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

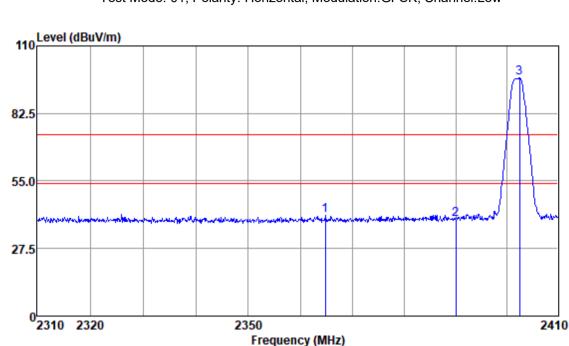


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low

## Antenna Polarity :HORIZONTAL

| Freq    |        |       |      |       | Emission<br>Level |        |        | Remark |
|---------|--------|-------|------|-------|-------------------|--------|--------|--------|
|         |        |       |      |       |                   |        |        |        |
| MHz     | dBuv   | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2364.78 | 44.37  | 28.68 | 3.14 | 35.16 | 41.03             | 74.00  | -32.97 | Peak   |
| 2390.00 | 42.64  | 28.80 | 3.13 | 35.18 | 39.39             | 74.00  | -34.61 | Peak   |
| 2402.45 | 100.16 | 28.85 | 3.13 | 35.19 | 96.95             | 74.00  | 22.95  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



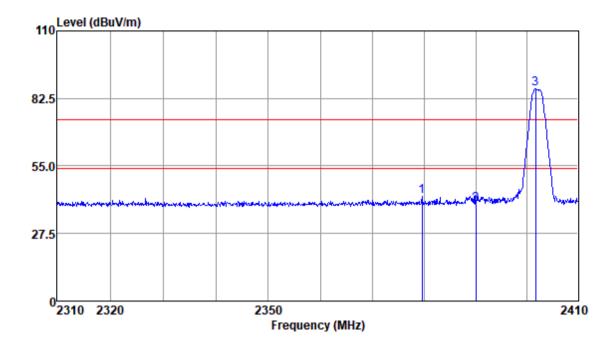
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#### Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2379.55 | 45.75 | 28.76 | 3.14 | 35.17 | 42.48             | 74.00  | -31.52 | Peak   |
| 2390.00 | 42.70 | 28.80 | 3.13 | 35.18 | 39.45             | 74.00  | -34.55 | Peak   |
| 2401.64 | 89.58 | 28.85 | 3.13 | 35.19 | 86.37             | 74.00  | 12.37  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

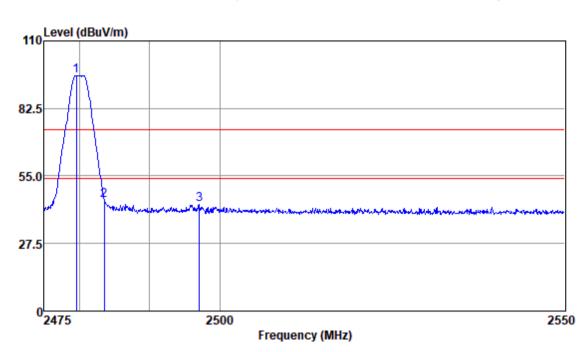


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High

## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.59 | 98.96 | 29.08 | 3.20 | 35.25 | 95.99             | 74.00  | 21.99  | Peak   |
| 2483.50 | 48.23 | 29.09 | 3.20 | 35.26 | 45.26             | 74.00  | -28.74 | Peak   |
| 2497.12 | 46.37 | 29.12 | 3.23 | 35.27 | 43.45             | 74.00  | -30.55 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

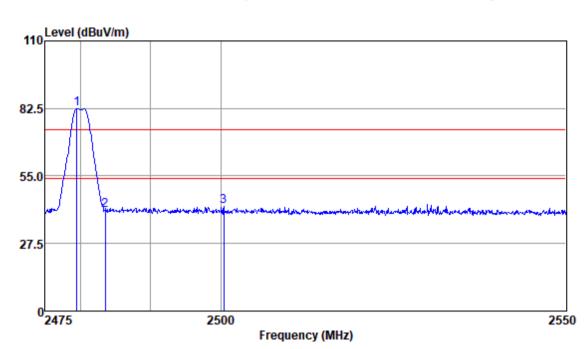


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHZ     | dBuv  | dB/m  | qR   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.51 | 85.36 | 29.08 | 3.20 | 35.25 | 82.39             | 74.00  | 8.39   | Peak   |
| 2483.50 | 43.78 | 29.09 | 3.20 | 35.26 | 40.81             | 74.00  | -33.19 | Peak   |
| 2500.47 | 45.34 | 29.12 | 3.23 | 35.27 | 42.42             | 74.00  | -31.58 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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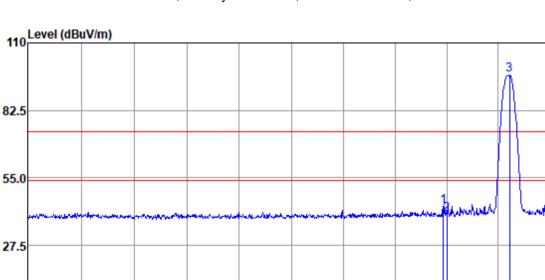


2310

2320

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low

#### Frequency (MHz)

2350

#### Antenna Polarity :HORIZONTAL

| Freq    |        |       |      |       | Emission<br>Level |        |        | Remark |
|---------|--------|-------|------|-------|-------------------|--------|--------|--------|
|         |        |       |      |       |                   |        |        |        |
| MHz     | dBuv   | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2389.36 | 46.71  | 28.80 | 3.13 | 35.18 | 43.46             | 74.00  | -30.54 | Peak   |
| 2390.00 | 43.44  | 28.80 | 3.13 | 35.18 | 40.19             | 74.00  | -33.81 | Peak   |
| 2402.25 | 100.06 | 28.85 | 3.13 | 35.19 | 96.85             | 74.00  | 22.85  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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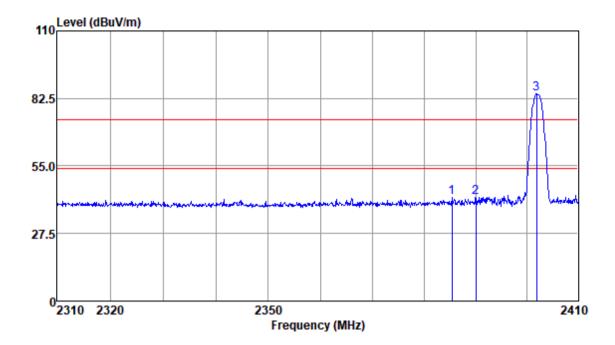
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2410



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#### Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2385.41 | 45.34 | 28.80 | 3.14 | 35.18 | 42.10             | 74.00  | -31.90 | Peak   |
| 2390.00 | 45.53 | 28.80 | 3.13 | 35.18 | 42.28             | 74.00  | -31.72 | Peak   |
| 2401.84 | 87.56 | 28.85 | 3.13 | 35.19 | 84.35             | 74.00  | 10.35  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

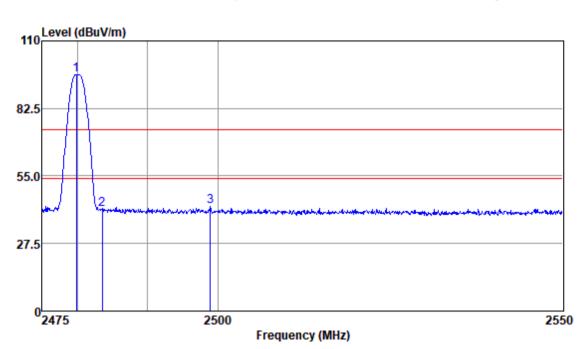


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High

#### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.81 | 99.07 | 29.08 | 3.20 | 35.25 | 96.10             | 74.00  | 22.10  | Peak   |
| 2483.50 | 44.47 | 29.09 | 3.20 | 35.26 | 41.50             | 74.00  | -32.50 | Peak   |
| 2498.98 | 45.54 | 29.12 | 3.23 | 35.27 | 42.62             | 74.00  | -31.38 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

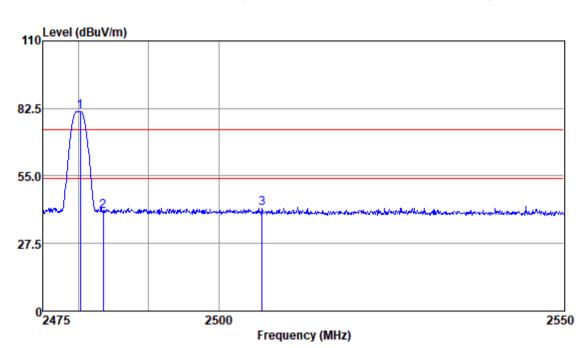


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2480.25 | 84.31 | 29.08 | 3.20 | 35.25 | 81.34             | 74.00  | 7.34   | Peak   |
| 2483.50 | 43.59 | 29.09 | 3.20 | 35.26 | 40.62             | 74.00  | -33.38 | Peak   |
| 2506.23 | 44.68 | 29.13 | 3.27 | 35.28 | 41.80             | 74.00  | -32.20 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

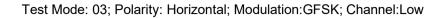


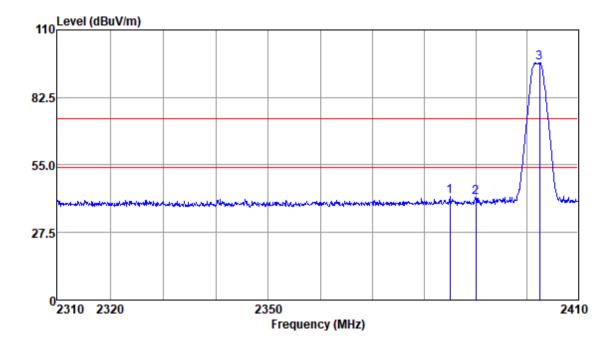
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## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2385.01 | 45.39 | 28.80 | 3.14 | 35.18 | 42.15             | 74.00  | -31.85 | Peak   |
| 2390.00 | 44.98 | 28.80 | 3.13 | 35.18 | 41.73             | 74.00  | -32.27 | Peak   |
| 2402.45 | 99.82 | 28.85 | 3.13 | 35.19 | 96.61             | 74.00  | 22.61  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



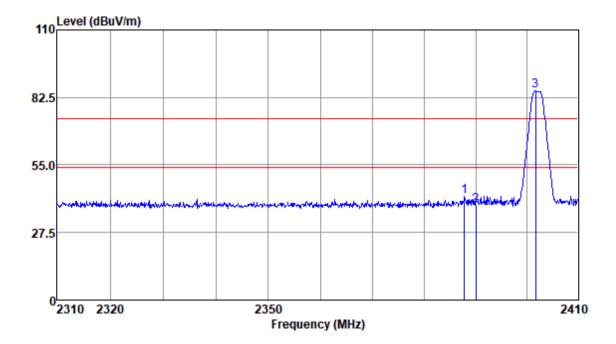
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#### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2387.84 | 45.64 | 28.80 | 3.13 | 35.18 | 42.39             | 74.00  | -31.61 | Peak   |
| 2390.00 | 41.91 | 28.80 | 3.13 | 35.18 | 38.66             | 74.00  | -35.34 | Peak   |
| 2401.64 | 88.56 | 28.85 | 3.13 | 35.19 | 85.35             | 74.00  | 11.35  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

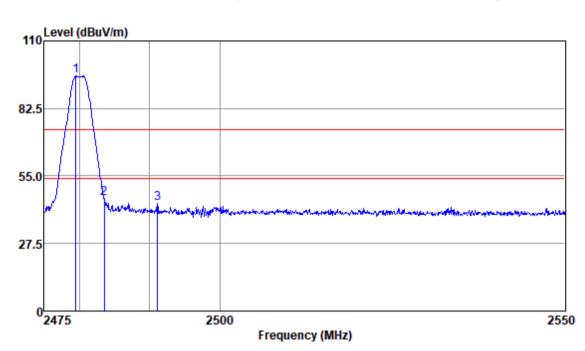


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High

#### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHZ     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.51 | 98.65 | 29.08 | 3.20 | 35.25 | 95.68             | 74.00  | 21.68  | Peak   |
| 2483.50 | 48.72 | 29.09 | 3.20 | 35.26 | 45.75             | 74.00  | -28.25 | Peak   |
| 2491.09 | 46.93 | 29.10 | 3.23 | 35.26 | 44.00             | 74.00  | -30.00 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

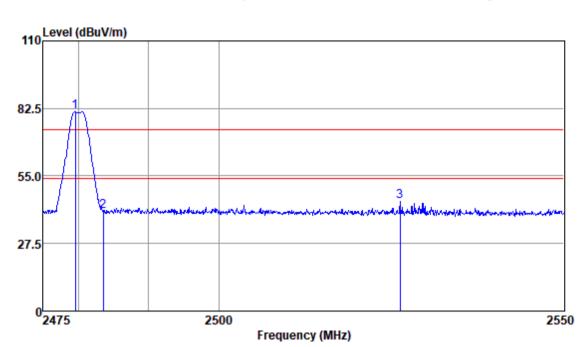


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.59 | 84.15 | 29.08 | 3.20 | 35.25 | 81.18             | 74.00  | 7.18   | Peak   |
| 2483.50 | 43.68 | 29.09 | 3.20 | 35.26 | 40.71             | 74.00  | -33.29 | Peak   |
| 2526.13 | 47.68 | 29.13 | 3.30 | 35.31 | 44.80             | 74.00  | -29.20 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



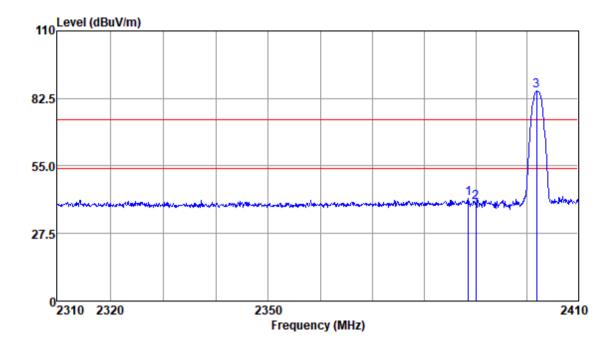
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#### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2388.55 | 44.93 | 28.80 | 3.13 | 35.18 | 41.68             | 74.00  | -32.32 | Peak   |
| 2390.00 | 43.26 | 28.80 | 3.13 | 35.18 | 40.01             | 74.00  | -33.99 | Peak   |
| 2401.84 | 88.65 | 28.85 | 3.13 | 35.19 | 85.44             | 74.00  | 11.44  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

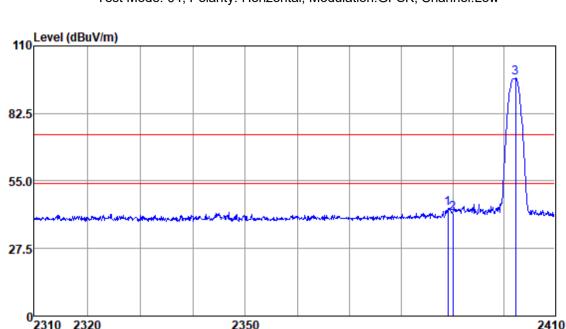


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#### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low

#### Antenna Polarity :HORIZONTAL

| Freq    |        |       |      |       | Emission<br>Level |        |        | Remark |
|---------|--------|-------|------|-------|-------------------|--------|--------|--------|
|         |        |       |      |       |                   |        |        |        |
| MHz     | dBuv   | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2389.05 | 47.21  | 28.80 | 3.13 | 35.18 | 43.96             | 74.00  | -30.04 | Peak   |
| 2390.00 | 45.04  | 28.80 | 3.13 | 35.18 | 41.79             | 74.00  | -32.21 | Peak   |
| 2402.25 | 100.09 | 28.85 | 3.13 | 35.19 | 96.88             | 74.00  | 22.88  | Peak   |

Frequency (MHz)

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

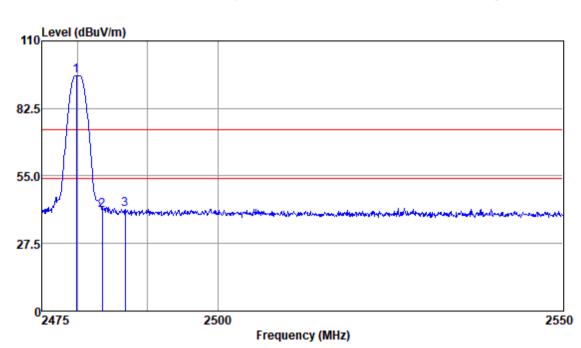


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High

## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2479.81 | 98.93 | 29.08 | 3.20 | 35.25 | 95.96             | 74.00  | 21.96  | Peak   |
| 2483.50 | 43.91 | 29.09 | 3.20 | 35.26 | 40.94             | 74.00  | -33.06 | Peak   |
| 2486.78 | 44.51 | 29.09 | 3.20 | 35.26 | 41.54             | 74.00  | -32.46 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

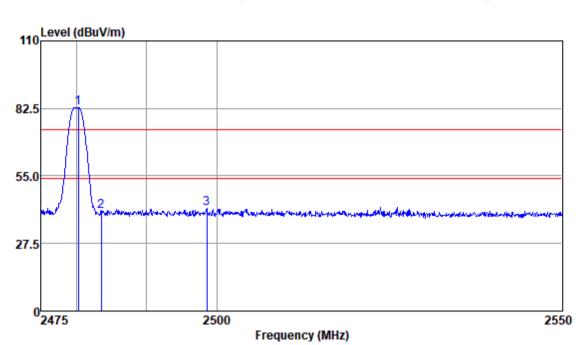


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2480.25 | 85.80 | 29.08 | 3.20 | 35.25 | 82.83             | 74.00  | 8.83   | Peak   |
| 2483.50 | 43.59 | 29.09 | 3.20 | 35.26 | 40.62             | 74.00  | -33.38 | Peak   |
| 2498.61 | 44.69 | 29.12 | 3.23 | 35.27 | 41.77             | 74.00  | -32.23 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

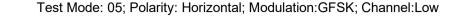


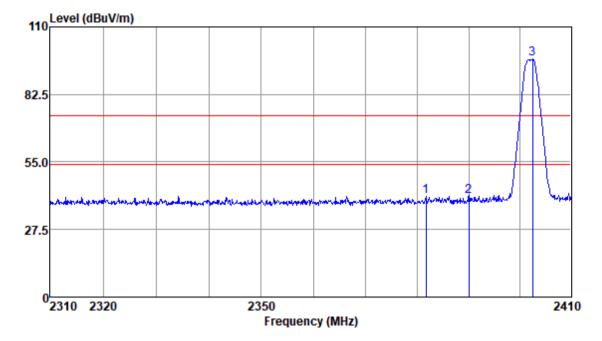
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## Antenna Polarity :HORIZONTAL

| Freq               |                |                |              |                | Emission<br>Level                 |                |                  | Remark |
|--------------------|----------------|----------------|--------------|----------------|-----------------------------------|----------------|------------------|--------|
| 2381.67<br>2390.00 | 44.11<br>44.08 | 28.76<br>28.80 | 3.14<br>3.13 | 35.17<br>35.18 | dBuv/m<br>40.84<br>40.83<br>96.87 | 74.00<br>74.00 | -33.16<br>-33.17 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



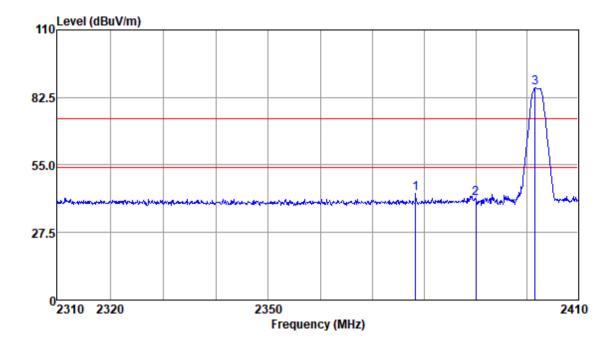
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#### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 2378.34 | 46.66 | 28.76 | 3.14 | 35.17 | 43.39             | 74.00  | -30.61 | Peak   |
| 2390.00 | 44.77 | 28.80 | 3.13 | 35.18 | 41.52             | 74.00  | -32.48 | Peak   |
| 2401.54 | 89.76 | 28.85 | 3.13 | 35.19 | 86.55             | 74.00  | 12.55  | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

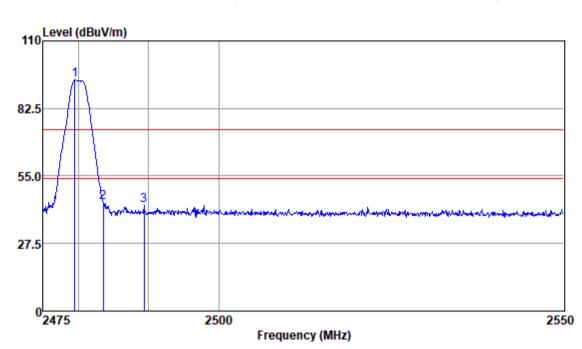


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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High

## Antenna Polarity :HORIZONTAL

| Freq |  |  | Emission<br>Level |  | Remark |
|------|--|--|-------------------|--|--------|
|      |  |  | dBuv/m<br>94.06   |  | Peak   |
|      |  |  | 44.41<br>42.87    |  |        |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

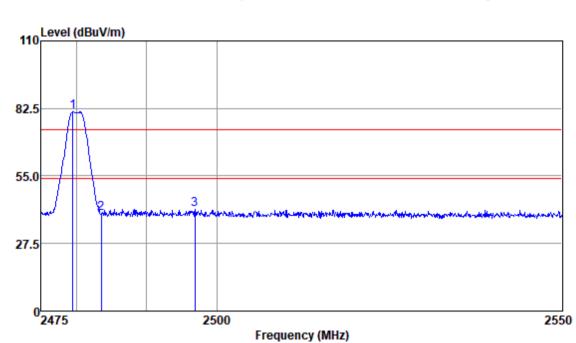


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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

| Freq     |       |       |      |       | Emission<br>Level |            |        | Remark |
|----------|-------|-------|------|-------|-------------------|------------|--------|--------|
| <br>MH-7 | dBury |       |      |       | dBuv/m            | <br>dBuy/m |        |        |
|          |       |       |      |       | 81.19             |            |        | Peak   |
|          |       |       |      |       | 39.82             |            |        |        |
| 2496.89  | 44.50 | 29.12 | 3.23 | 35.27 | 41.58             | 74.00      | -32.42 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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## 7.7 Radiated Spurious Emissions Below 1GHz

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|------------------|-------------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 6.4,6.5        |

#### Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement<br>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                               |
| 960-1000       | 500                              | 3                               |

## 7.7.1 E.U.T. Operation

| Operating Enviro | nment:  |           |           |                       |      |      |
|------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature:     | 24.7 °C | Humidity: | 64.0 % RH | Atmospheric Pressure: | 1010 | mbar |

## 7.7.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.             |
| Pre-scan                 | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.             |
| Final test               | 02           | TX mode(1Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.        |
| Pre-scan                 | 03           | TX mode(2Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.        |
| Final test               | 04           | TX mode(1Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation. |
| Pre-scan                 | 05           | TX mode(2Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation. |



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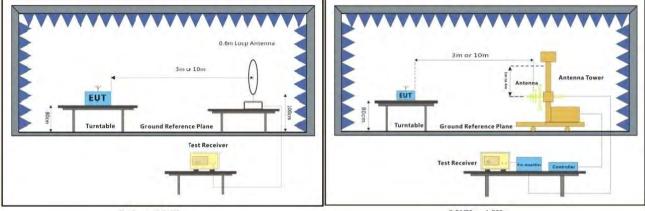
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#### 7.7.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

#### 7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

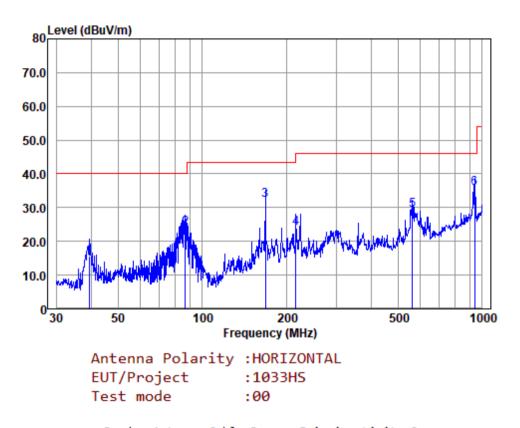
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 00; Polarity: Horizontal

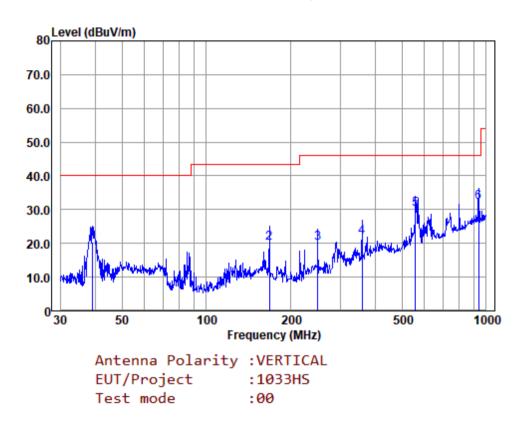
|        |           | Read     | Antenna  | Cable | Preamp   | Emissior | ı Limit | Over     |        |
|--------|-----------|----------|----------|-------|----------|----------|---------|----------|--------|
|        | Freq      | Level    | Factor   | Loss  | Factor   | Level    | Line    | Limit    | Remark |
|        |           |          |          |       |          |          |         |          |        |
|        | MHz       | dBuV     | dB/m     | dB    | dB       | dBuV/m   | dBuV/m  | dB       |        |
| 1      | 39.576    | 35.08    | 13.40    | 0.95  | 33.70    | 15.73    | 40.00   | -24.27   | QP     |
| 2      | 86.807    | 47.82    | 7.72     | 1.86  | 33.57    | 23.83    | 40.00   | -16.17   | QP     |
| 3      | 167.824   | 50.01    | 12.90    | 2.60  | 33.42    | 32.09    | 43.50   | -11.41   | QP     |
| 4      | 216.024   | 44.19    | 9.86     | 3.22  | 33.22    | 24.05    | 46.00   | -21.95   | QP     |
| 5      | 562.662   | 37.55    | 19.12    | 5.63  | 33.00    | 29.30    | 46.00   | -16.70   | QP     |
| 6      | 938.833   | 36.66    | 23.70    | 7.27  | 32.02    | 35.61    | 46.00   | -10.39   | QP     |
| Note:E | mission L | evel=Rea | ad Level | Anten | na Facto | or+Cable | loss-Pr | eamp Fac | tor    |



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Test Mode: 00; Polarity: Vertical

|         |           | Read    | Antenna  | Cable | Preamp   | Emissior | ı Limit | Over     |        |
|---------|-----------|---------|----------|-------|----------|----------|---------|----------|--------|
|         | Freq      | Level   | Factor   | Loss  | Factor   | Level    | Line    | Limit    | Remark |
|         |           |         |          |       |          |          |         |          |        |
|         | MHz       | dBuV    | dB/m     | dB    | dB       | dBuV/m   | dBuV/m  | dB       |        |
| 1       | 39.162    | 39.59   | 13.40    | 0.95  | 33.70    | 20.24    | 40.00   | -19.76   | QP     |
| 2       | 167.824   | 38.01   | 12.90    | 2.60  | 33.42    | 20.09    | 43.50   | -23.41   | QP     |
| 3       | 249.425   | 38.41   | 11.64    | 3.20  | 33.10    | 20.15    | 46.00   | -25.85   | QP     |
| 4       | 360.448   | 35.53   | 14.70    | 4.53  | 32.97    | 21.79    | 46.00   | -24.21   | QP     |
| 5       | 558.730   | 38.30   | 19.06    | 5.62  | 33.00    | 29.98    | 46.00   | -16.02   | QP     |
| 6       | 938.833   | 33.29   | 23.70    | 7.27  | 32.02    | 32.24    | 46.00   | -13.76   | QP     |
| Note:Er | mission L | evel=Re | ad Level | Anten | na Facto | or+Cable | loss-Pr | eamp Fac | tor    |

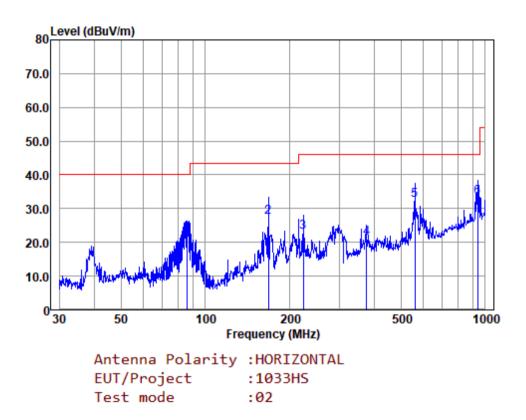


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Test Mode: 02; Polarity: Horizontal

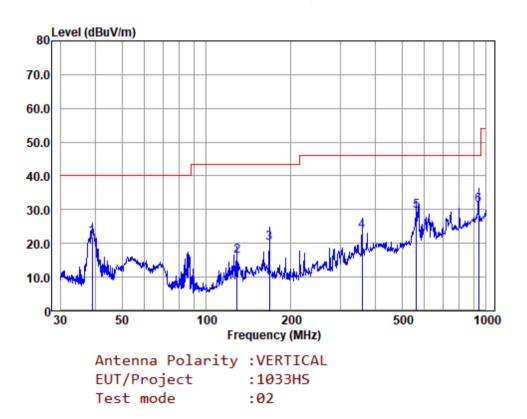
|         |           | Read     | Antenna  | Cable | Preamp   | Emission | n Limit | Over     |        |
|---------|-----------|----------|----------|-------|----------|----------|---------|----------|--------|
|         | Freq      | Level    | Factor   | Loss  | Factor   | Level    | Line    | Limit    | Remark |
|         |           |          |          |       |          |          |         |          |        |
|         | MHz       | dBuV     | dB/m     | dB    | dB       | dBuV/m   | dBuV/m  | dB       |        |
| 1       | 85.898    | 46.09    | 7.80     | 1.86  | 33.56    | 22.19    | 40.00   | -17.81   | QP     |
| 2       | 167.824   | 45.41    | 12.90    | 2.60  | 33.42    | 27.49    | 43.50   | -16.01   | QP     |
| 3       | 223.733   | 43.03    | 9.98     | 3.22  | 33.20    | 23.03    | 46.00   | -22.97   | QP     |
| 4       | 375.939   | 34.66    | 15.15    | 4.37  | 32.95    | 21.23    | 46.00   | -24.77   | QP     |
| 5       | 560.693   | 40.63    | 19.10    | 5.64  | 33.00    | 32.37    | 46.00   | -13.63   | QP     |
| 6       | 938.833   | 34.41    | 23.70    | 7.27  | 32.02    | 33.36    | 46.00   | -12.64   | QP     |
| Note:Er | mission L | evel=Rea | ad Level | Anten | na Facto | or+Cable | loss-Pr | eamp Fac | ctor   |



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Test Mode: 02; Polarity: Vertical

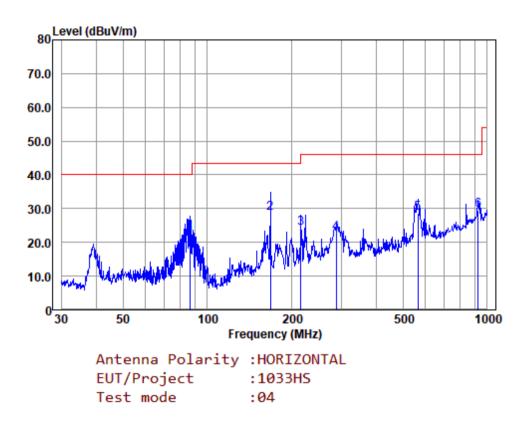
|        |           | Read     | Antenna  | Cable | Preamp   | Emission | n Limit | Over     |        |
|--------|-----------|----------|----------|-------|----------|----------|---------|----------|--------|
|        | Freq      | Level    | Factor   | Loss  | Factor   | Level    | Line    | Limit    | Remark |
|        |           |          |          |       |          |          |         |          |        |
|        | MHz       | dBuV     | dB/m     | dB    | dB       | dBuV/m   | dBuV/m  | dB       |        |
| 1      | 39.024    | 41.19    | 13.40    | 0.95  | 33.70    | 21.84    | 40.00   | -18.16   | QP     |
| 2      | 128.563   | 35.65    | 11.90    | 2.22  | 33.54    | 16.23    | 43.50   | -27.27   | QP     |
| 3      | 167.824   | 37.86    | 12.90    | 2.60  | 33.42    | 19.94    | 43.50   | -23.56   | QP     |
| 4      | 360.448   | 37.28    | 14.70    | 4.53  | 32.97    | 23.54    | 46.00   | -22.46   | QP     |
| 5      | 562.662   | 37.85    | 19.12    | 5.63  | 33.00    | 29.60    | 46.00   | -16.40   | QP     |
| 6      | 938.833   | 32.34    | 23.70    | 7.27  | 32.02    | 31.29    | 46.00   | -14.71   | QP     |
| Note:E | mission L | evel=Rea | ad Level | Anten | na Facto | or+Cable | loss-Pr | eamp Fac | tor    |



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Test Mode: 04; Polarity: Horizontal

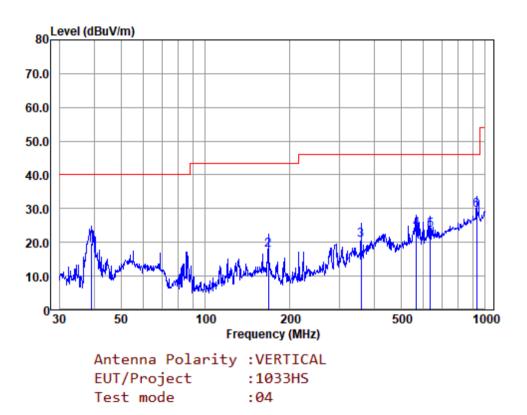
|        |           | Read    | Antenna  | Cable  | Preamp   | Emission | ı Limit | Over     |        |
|--------|-----------|---------|----------|--------|----------|----------|---------|----------|--------|
|        | Freq      | Level   | Factor   | Loss   | Factor   | Level    | Line    | Limit    | Remark |
|        |           |         |          |        |          |          |         |          |        |
|        | MHz       | dBuV    | dB/m     | dB     | dB       | dBuV/m   | dBuV/m  | dB       |        |
| 1      | 86.807    | 46.65   | 7.72     | 1.86   | 33.57    | 22.66    | 40.00   | -17.34   | QP     |
| 2      | 167.824   | 46.67   | 12.90    | 2.60   | 33.42    | 28.75    | 43.50   | -14.75   | QP     |
| 3      | 216.024   | 44.27   | 9.86     | 3.22   | 33.22    | 24.13    | 46.00   | -21.87   | QP     |
| 4      | 287.990   | 39.14   | 13.04    | 3.50   | 33.02    | 22.66    | 46.00   | -23.34   | QP     |
| 5      | 564.639   | 37.02   | 19.14    | 5.62   | 33.00    | 28.78    | 46.00   | -17.22   | QP     |
| 6      | 925.756   | 30.66   | 23.77    | 7.22   | 32.05    | 29.60    | 46.00   | -16.40   | QP     |
| Note:E | mission L | evel=Re | ad Level | +Anten | na Facto | or+Cable | loss-Pr | eamp Fac | tor    |



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Test Mode: 04; Polarity: Vertical

|       |            | Read    | Antenna  | Cable | Preamp   | Emission | ı Limit | Over     |        |
|-------|------------|---------|----------|-------|----------|----------|---------|----------|--------|
|       | Freq       | Level   | Factor   | Loss  | Factor   | Level    | Line    | Limit    | Remark |
|       |            |         |          |       |          |          |         |          |        |
|       | MHz        | dBuV    | dB/m     | dB    | dB       | dBuV/m   | dBuV/m  | dB       |        |
| 1     | 39.162     | 39.21   | 13.40    | 0.95  | 33.70    | 19.86    | 40.00   | -20.14   | QP     |
| 2     | 167.824    | 35.49   | 12.90    | 2.60  | 33.42    | 17.57    | 43.50   | -25.93   | QP     |
| 3     | 360.448    | 34.39   | 14.70    | 4.53  | 32.97    | 20.65    | 46.00   | -25.35   | QP     |
| 4     | 566.622    | 32.28   | 19.16    | 5.60  | 33.00    | 24.04    | 46.00   | -21.96   | QP     |
| 5     | 636.134    | 30.09   | 20.68    | 5.80  | 32.92    | 23.65    | 46.00   | -22.35   | QP     |
| 6     | 932.272    | 30.62   | 23.70    | 7.26  | 32.03    | 29.55    | 46.00   | -16.45   | QP     |
| Note: | Emission L | evel=Re | ad Level | Anten | na Facto | or+Cable | loss-Pr | eamp Fac | tor    |



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## 7.8 Radiated Spurious Emissions Above 1GHz

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|------------------|-------------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 6.6            |

Limit:

| Frequency(MHz) | Field<br>strength(microvolts/meter) | Measurement<br>distance(meters) |
|----------------|-------------------------------------|---------------------------------|
| Above 1000     | 500                                 | 3                               |

## 7.8.1 E.U.T. Operation

Operating Environment:

| Temperature: | 24.7 °C | Humidity: | 64.1 % RH | Atmospheric Pressure: | 1010 | mbar |
|--------------|---------|-----------|-----------|-----------------------|------|------|
|              |         |           |           |                       |      |      |

## 7.8.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.             |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.             |
| Final test               | 02           | TX mode(1Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.        |
| Final test               | 03           | TX mode(2Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.        |
| Final test               | 04           | TX mode(1Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation. |
| Final test               | 05           | TX mode(2Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation. |

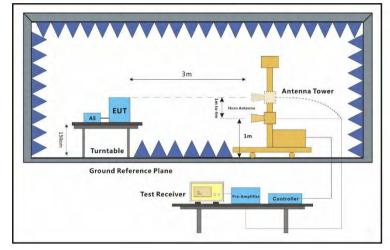


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## 7.8.3 Test Setup Diagram





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#### 7.8.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



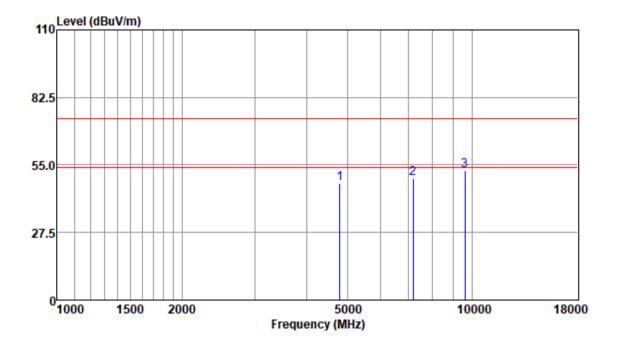
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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4804.00 | 45.99 | 33.57 | 4.53 | 36.79 | 47.30             | 74.00  | -26.70 | Peak   |
| 7206.00 | 42.34 | 36.24 | 6.66 | 35.53 | 49.71             | 74.00  | -24.29 | Peak   |
| 9608.00 | 39.92 | 37.75 | 8.56 | 33.58 | 52.65             | 74.00  | -21.35 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



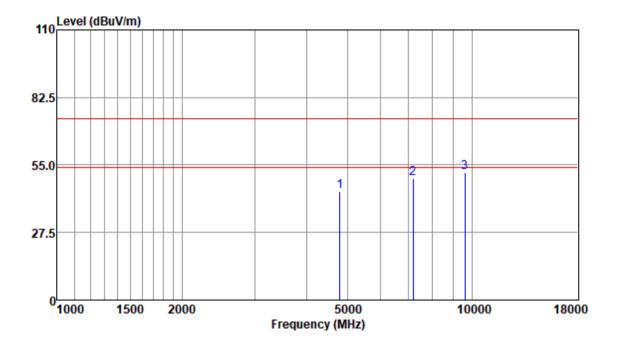
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## Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| [no.c   |       |        |      |        | Emission |        |        | Domonia |
|---------|-------|--------|------|--------|----------|--------|--------|---------|
| Freq    | rever | Factor | LOSS | Factor | Level    | Line   | LIMIC  | кепагк  |
|         |       |        |      |        |          |        |        |         |
| MHz     | dBuv  | dB/m   | dB   | dB     | dBuv/m   | dBuv/m | dB     |         |
| 4804.00 | 43.04 | 33.57  | 4.53 | 36.79  | 44.35    | 74.00  | -29.65 | Peak    |
| 7206.00 | 42.21 | 36.24  | 6.66 | 35.53  | 49.58    | 74.00  | -24.42 | Peak    |
| 9608.00 | 39.04 | 37.75  | 8.56 | 33.58  | 51.77    | 74.00  | -22.23 | Peak    |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



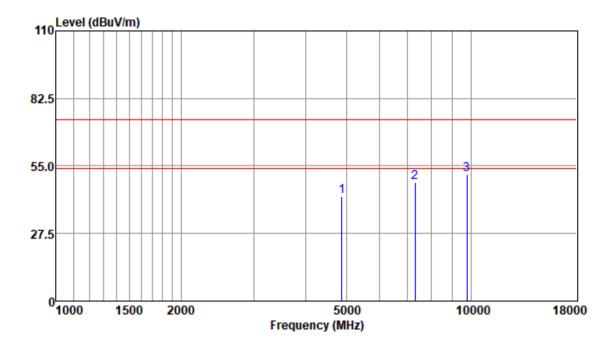
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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 41.00 | 33.66 | 4.73 | 36.81 | 42.58             | 74.00  | -31.42 | Peak   |
| 7320.00 | 40.86 | 36.33 | 6.59 | 35.42 | 48.36             | 74.00  | -25.64 | Peak   |
| 9760.00 | 38.63 | 37.54 | 8.69 | 33.50 | 51.36             | 74.00  | -22.64 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



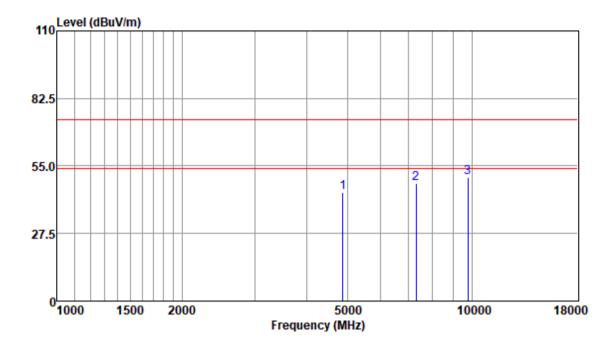
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#### Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 42.85 | 33.66 | 4.73 | 36.81 | 44.43             | 74.00  | -29.57 | Peak   |
| 7320.00 | 40.51 | 36.33 | 6.59 | 35.42 | 48.01             | 74.00  | -25.99 | Peak   |
| 9760.00 | 37.76 | 37.54 | 8.69 | 33.50 | 50.49             | 74.00  | -23.51 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



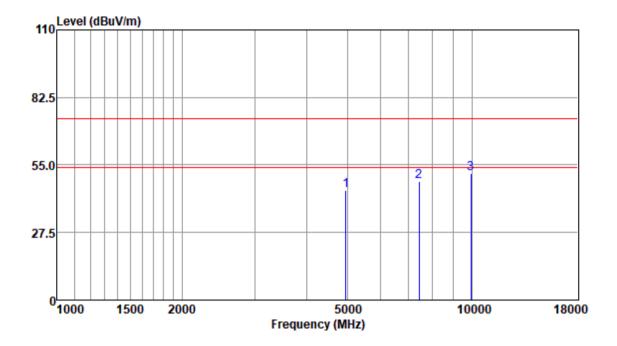
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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 42.90 | 33.65 | 4.92 | 36.83 | 44.64             | 74.00  | -29.36 | Peak   |
| 7440.00 | 40.84 | 36.31 | 6.61 | 35.34 | 48.42             | 74.00  | -25.58 | Peak   |
| 9920.00 | 38.33 | 37.62 | 8.87 | 33.41 | 51.41             | 74.00  | -22.59 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



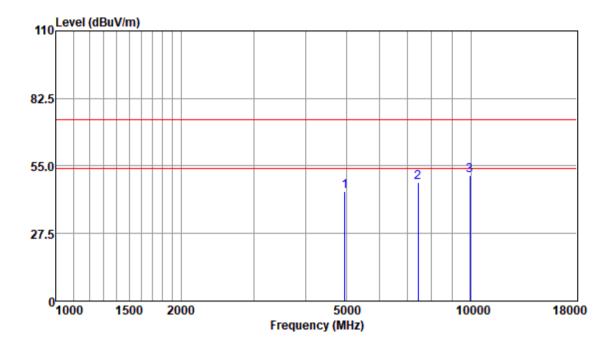
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## Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 42.99 | 33.65 | 4.92 | 36.83 | 44.73             | 74.00  | -29.27 | Peak   |
| 7440.00 | 40.79 | 36.31 | 6.61 | 35.34 | 48.37             | 74.00  | -25.63 | Peak   |
| 9920.00 | 37.96 | 37.62 | 8.87 | 33.41 | 51.04             | 74.00  | -22.96 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

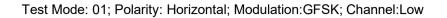


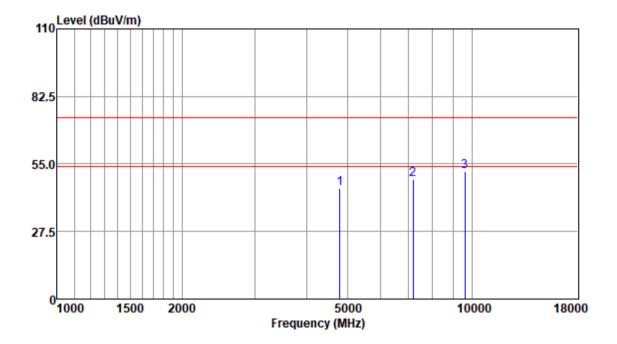
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## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4804.00 | 43.78 | 33.57 | 4.53 | 36.79 | 45.09             | 74.00  | -28.91 | Peak   |
| 7206.00 | 41.28 | 36.24 | 6.66 | 35.53 | 48.65             | 74.00  | -25.35 | Peak   |
| 9608.00 | 39.33 | 37.75 | 8.56 | 33.58 | 52.06             | 74.00  | -21.94 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



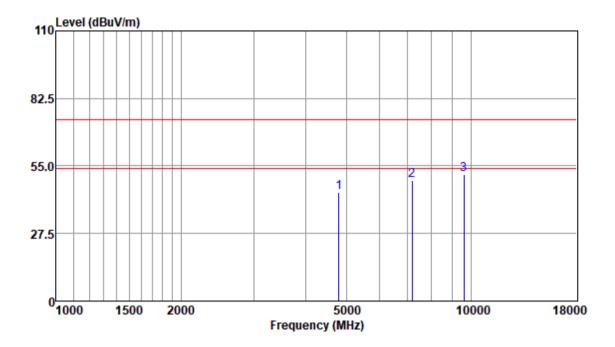
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## Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Enog    |       |        |      |        | Emission<br>Level |        |         | Romank   |
|---------|-------|--------|------|--------|-------------------|--------|---------|----------|
| Freq    | rever | Factor | LUSS | Factor | rever             | LTHE   | LTIIITC | NelliarK |
|         |       |        |      |        |                   |        |         |          |
| MHz     | dBuv  | dB/m   | dB   | dB     | dBuv/m            | dBuv/m | dB      |          |
| 4804.00 | 43.05 | 33.57  | 4.53 | 36.79  | 44.36             | 74.00  | -29.64  | Peak     |
| 7206.00 | 41.87 | 36.24  | 6.66 | 35.53  | 49.24             | 74.00  | -24.76  | Peak     |
| 9608.00 | 38.74 | 37.75  | 8.56 | 33.58  | 51.47             | 74.00  | -22.53  | Peak     |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



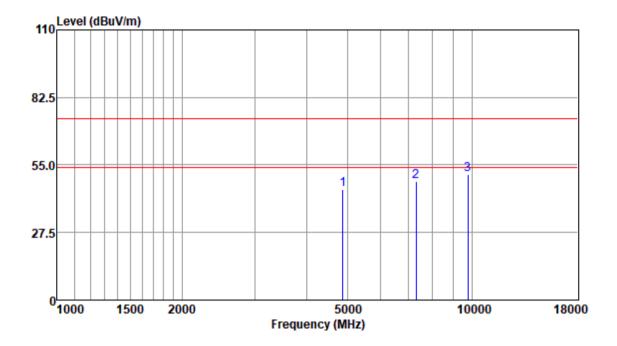
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#### Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 43.62 | 33.66 | 4.73 | 36.81 | 45.20             | 74.00  | -28.80 | Peak   |
| 7320.00 | 40.65 | 36.33 | 6.59 | 35.42 | 48.15             | 74.00  | -25.85 | Peak   |
| 9760.00 | 38.42 | 37.54 | 8.69 | 33.50 | 51.15             | 74.00  | -22.85 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



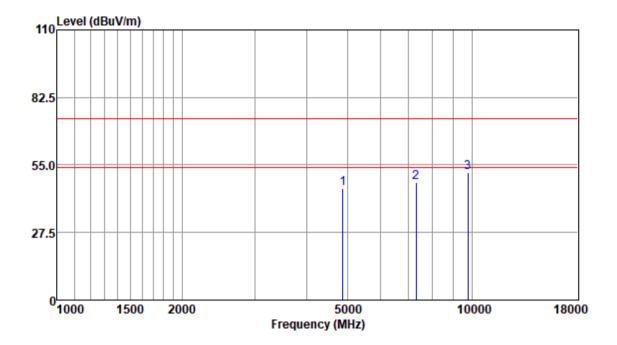
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#### Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 43.86 | 33.66 | 4.73 | 36.81 | 45.44             | 74.00  | -28.56 | Peak   |
| 7320.00 | 40.38 | 36.33 | 6.59 | 35.42 | 47.88             | 74.00  | -26.12 | Peak   |
| 9760.00 | 39.02 | 37.54 | 8.69 | 33.50 | 51.75             | 74.00  | -22.25 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



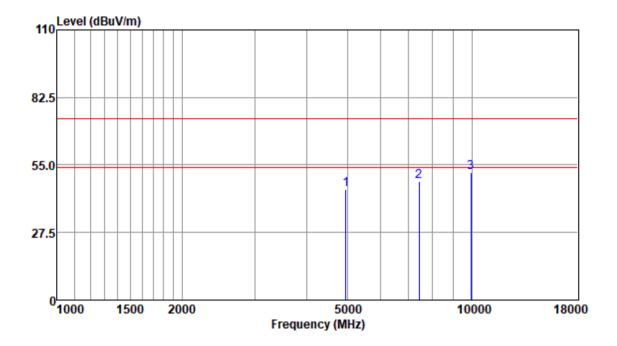
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## Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 43.24 | 33.65 | 4.92 | 36.83 | 44.98             | 74.00  | -29.02 | Peak   |
| 7440.00 | 40.66 | 36.31 | 6.61 | 35.34 | 48.24             | 74.00  | -25.76 | Peak   |
| 9920.00 | 39.00 | 37.62 | 8.87 | 33.41 | 52.08             | 74.00  | -21.92 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



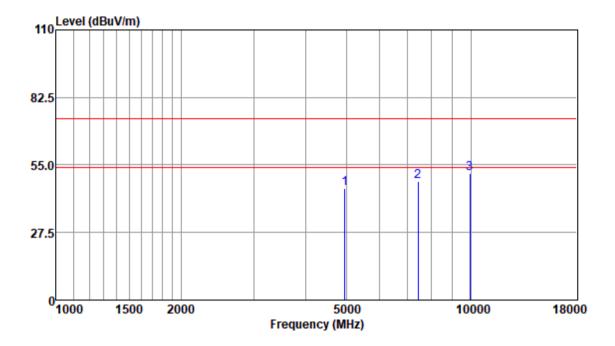
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## Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



## Antenna Polarity :VERTICAL

|       |                                 |                                                         |                                                                           |                                                                                                 |                                                                                                                          |                                                                                                                                                  | Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|---------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                 |                                                         |                                                                           |                                                                                                 |                                                                                                                          |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| dBuv  | dB/m                            | dB                                                      | dB                                                                        | dBuv/m                                                                                          | dBuv/m                                                                                                                   | dB                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 43.53 | 33.65                           | 4.92                                                    | 36.83                                                                     | 45.27                                                                                           | 74.00                                                                                                                    | -28.73                                                                                                                                           | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 40.60 | 36.31                           | 6.61                                                    | 35.34                                                                     | 48.18                                                                                           | 74.00                                                                                                                    | -25.82                                                                                                                                           | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 38.43 | 37.62                           | 8.87                                                    | 33.41                                                                     | 51.51                                                                                           | 74.00                                                                                                                    | -22.49                                                                                                                                           | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|       | Level<br>dBuv<br>43.53<br>40.60 | Level Factor<br>dBuv dB/m<br>43.53 33.65<br>40.60 36.31 | Level Factor Loss<br>dBuv dB/m dB<br>43.53 33.65 4.92<br>40.60 36.31 6.61 | Level Factor Loss Factor<br>dBuv dB/m dB dB<br>43.53 33.65 4.92 36.83<br>40.60 36.31 6.61 35.34 | Level Factor Loss Factor Level<br>dBuv dB/m dB dB dBuv/m<br>43.53 33.65 4.92 36.83 45.27<br>40.60 36.31 6.61 35.34 48.18 | Level Factor Loss Factor Level Line<br>dBuv dB/m dB dB dBuv/m dBuv/m<br>43.53 33.65 4.92 36.83 45.27 74.00<br>40.60 36.31 6.61 35.34 48.18 74.00 | Read         Antenna         Cable         Preamp         Emission         Limit         Over           Level         Factor         Loss         Factor         Level         Line         Limit           dBuv         dB/m         dB         dB         dBuv/m         dBuv/m         dB           43.53         33.65         4.92         36.83         45.27         74.00         -28.73           40.60         36.31         6.61         35.34         48.18         74.00         -25.82           38.43         37.62         8.87         33.41         51.51         74.00         -22.49 |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



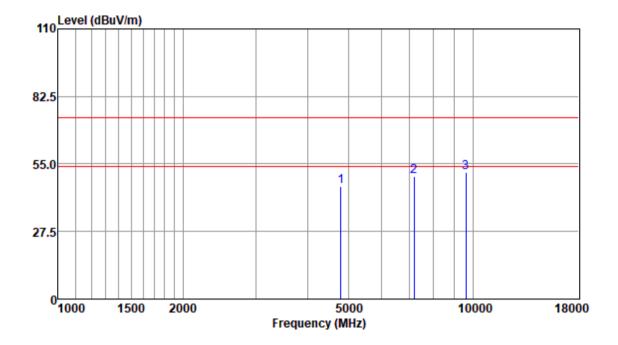
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#### Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



## Antenna Polarity :HORIZONTAL

| <b>F</b> |       |        |      |        | Emission |        |        | Description |
|----------|-------|--------|------|--------|----------|--------|--------|-------------|
| Freq     | rever | Factor | LOSS | Factor | Level    | Line   | Limit  | Kemark      |
|          |       |        |      |        |          |        |        |             |
| MHz      | dBuv  | dB/m   | dB   | dB     | dBuv/m   | dBuv/m | dB     |             |
| 4804.00  | 44.45 | 33.57  | 4.53 | 36.79  | 45.76    | 74.00  | -28.24 | Peak        |
| 7206.00  | 42.48 | 36.24  | 6.66 | 35.53  | 49.85    | 74.00  | -24.15 | Peak        |
| 9608.00  | 38.89 | 37.75  | 8.56 | 33.58  | 51.62    | 74.00  | -22.38 | Peak        |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



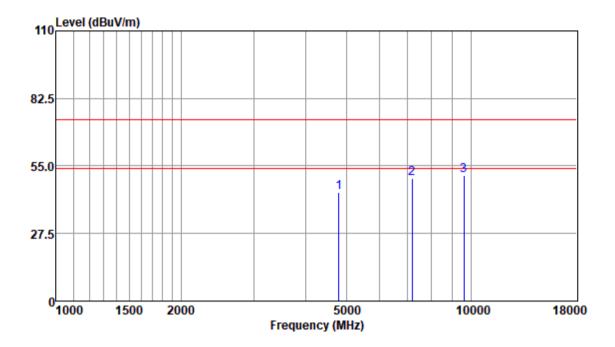
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## Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4804.00 | 43.14 | 33.57 | 4.53 | 36.79 | 44.45             | 74.00  | -29.55 | Peak   |
| 7206.00 | 42.55 | 36.24 | 6.66 | 35.53 | 49.92             | 74.00  | -24.08 | Peak   |
| 9608.00 | 38.46 | 37.75 | 8.56 | 33.58 | 51.19             | 74.00  | -22.81 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



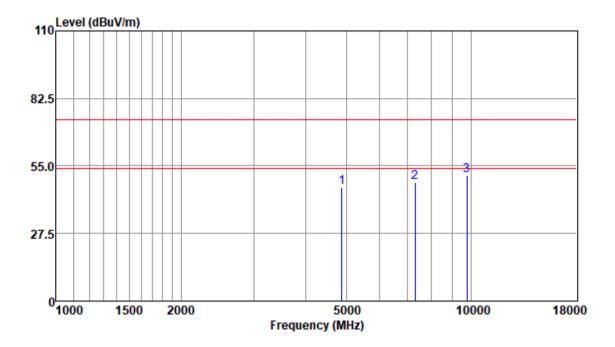
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#### Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      | -     | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 44.79 | 33.66 | 4.73 | 36.81 | 46.37             | 74.00  | -27.63 | Peak   |
| 7320.00 | 41.00 | 36.33 | 6.59 | 35.42 | 48.50             | 74.00  | -25.50 | Peak   |
| 9760.00 | 38.51 | 37.54 | 8.69 | 33.50 | 51.24             | 74.00  | -22.76 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



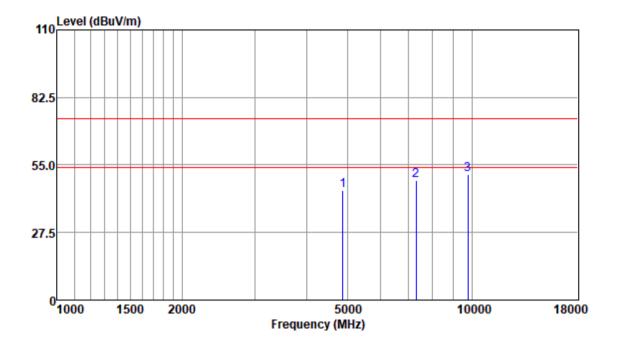
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## Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



## Antenna Polarity :VERTICAL

| Fred    |       |          |      |          | Emission<br>Level |        |        | Remark    |
|---------|-------|----------|------|----------|-------------------|--------|--------|-----------|
| 11Cq    | Lever | 1 ac coi | 2033 | i ac coi | Level             | CINC   | LIMIC  | Nellion K |
|         |       |          |      |          |                   |        |        |           |
| MHz     | dBuv  | dB/m     | dB   | dB       | dBuv/m            | dBuv/m | dB     |           |
| 4880.00 | 43.06 | 33.66    | 4.73 | 36.81    | 44.64             | 74.00  | -29.36 | Peak      |
| 7320.00 | 41.04 | 36.33    | 6.59 | 35.42    | 48.54             | 74.00  | -25.46 | Peak      |
| 9760.00 | 38.46 | 37.54    | 8.69 | 33.50    | 51.19             | 74.00  | -22.81 | Peak      |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



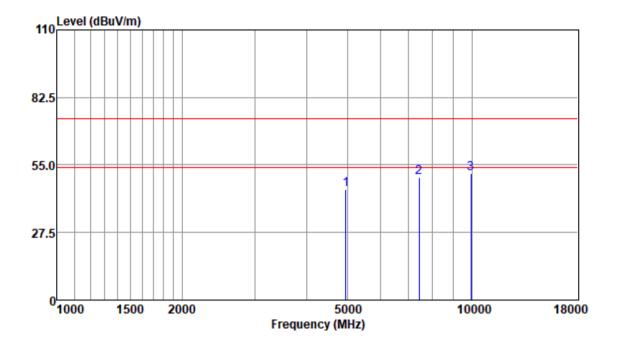
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## Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



## Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 43.15 | 33.65 | 4.92 | 36.83 | 44.89             | 74.00  | -29.11 | Peak   |
| 7440.00 | 42.30 | 36.31 | 6.61 | 35.34 | 49.88             | 74.00  | -24.12 | Peak   |
| 9920.00 | 38.46 | 37.62 | 8.87 | 33.41 | 51.54             | 74.00  | -22.46 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



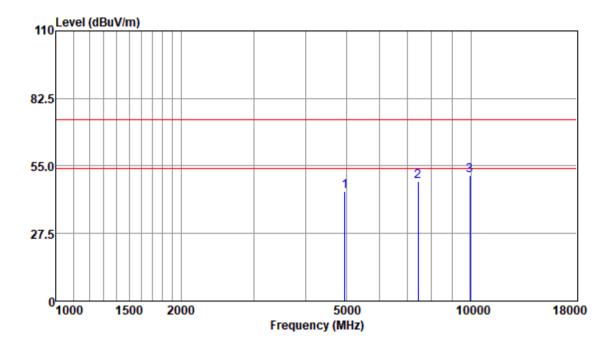
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### Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 42.86 | 33.65 | 4.92 | 36.83 | 44.60             | 74.00  | -29.40 | Peak   |
| 7440.00 | 41.13 | 36.31 | 6.61 | 35.34 | 48.71             | 74.00  | -25.29 | Peak   |
| 9920.00 | 38.20 | 37.62 | 8.87 | 33.41 | 51.28             | 74.00  | -22.72 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



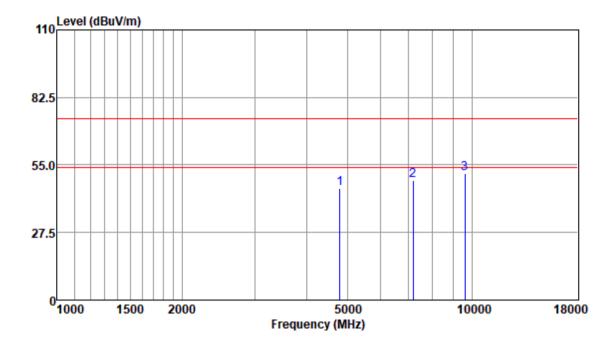
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### Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4804.00 | 43.95 | 33.57 | 4.53 | 36.79 | 45.26             | 74.00  | -28.74 | Peak   |
| 7206.00 | 41.36 | 36.24 | 6.66 | 35.53 | 48.73             | 74.00  | -25.27 | Peak   |
| 9608.00 | 38.92 | 37.75 | 8.56 | 33.58 | 51.65             | 74.00  | -22.35 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



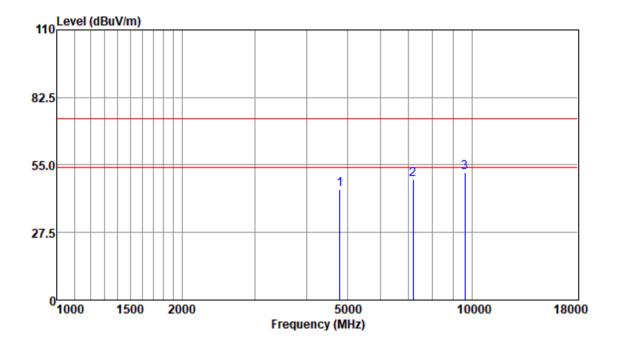
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### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



### Antenna Polarity :VERTICAL

| Free    |       |        |      |        | Emission |        |        | Pomonic |
|---------|-------|--------|------|--------|----------|--------|--------|---------|
| Freq    | rever | Factor | LOSS | Factor | Level    | Line   | LIMIC  | кепагк  |
|         |       |        |      |        |          |        |        |         |
| MHz     | dBuv  | dB/m   | dB   | dB     | dBuv/m   | dBuv/m | dB     |         |
| 4804.00 | 43.75 | 33.57  | 4.53 | 36.79  | 45.06    | 74.00  | -28.94 | Peak    |
| 7206.00 | 41.72 | 36.24  | 6.66 | 35.53  | 49.09    | 74.00  | -24.91 | Peak    |
| 9608.00 | 39.09 | 37.75  | 8.56 | 33.58  | 51.82    | 74.00  | -22.18 | Peak    |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



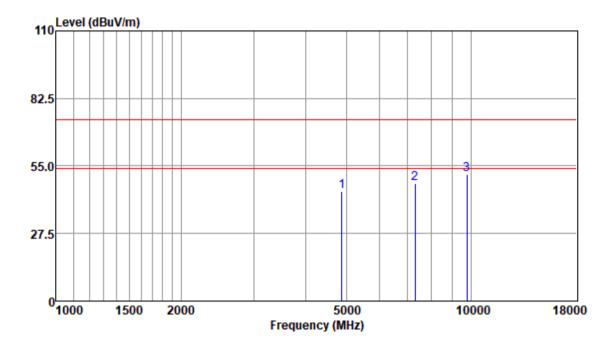
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### Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Antenna Polarity :HORIZONTAL

|       |                                     |                                                         |                                                                           |                                                                                                 |                                                                                                                          |                                                                                                                                                  | Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                     |                                                         |                                                                           |                                                                                                 |                                                                                                                          |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| dBuv  | dB/m                                | dB                                                      | dB                                                                        | dBuv/m                                                                                          | dBuv/m                                                                                                                   | dB                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 42.94 | 33.66                               | 4.73                                                    | 36.81                                                                     | 44.52                                                                                           | 74.00                                                                                                                    | -29.48                                                                                                                                           | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 40.49 | 36.33                               | 6.59                                                    | 35.42                                                                     | 47.99                                                                                           | 74.00                                                                                                                    | -26.01                                                                                                                                           | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 38.93 | 37.54                               | 8.69                                                    | 33.50                                                                     | 51.66                                                                                           | 74.00                                                                                                                    | -22.34                                                                                                                                           | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|       | Level<br><br>dBuv<br>42.94<br>40.49 | Level Factor<br>dBuv dB/m<br>42.94 33.66<br>40.49 36.33 | Level Factor Loss<br>dBuv dB/m dB<br>42.94 33.66 4.73<br>40.49 36.33 6.59 | Level Factor Loss Factor<br>dBuv dB/m dB dB<br>42.94 33.66 4.73 36.81<br>40.49 36.33 6.59 35.42 | Level Factor Loss Factor Level<br>dBuv dB/m dB dB dBuv/m<br>42.94 33.66 4.73 36.81 44.52<br>40.49 36.33 6.59 35.42 47.99 | Level Factor Loss Factor Level Line<br>dBuv dB/m dB dB dBuv/m dBuv/m<br>42.94 33.66 4.73 36.81 44.52 74.00<br>40.49 36.33 6.59 35.42 47.99 74.00 | Read         Antenna         Cable         Preamp         Emission         Limit         Over           Level         Factor         Loss         Factor         Level         Line         Limit           dBuv         dB/m         dB         dB         dBuv/m         dBuv/m         dB           42.94         33.66         4.73         36.81         44.52         74.00         -29.48           40.49         36.33         6.59         35.42         47.99         74.00         -26.01           38.93         37.54         8.69         33.50         51.66         74.00         -22.34 |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



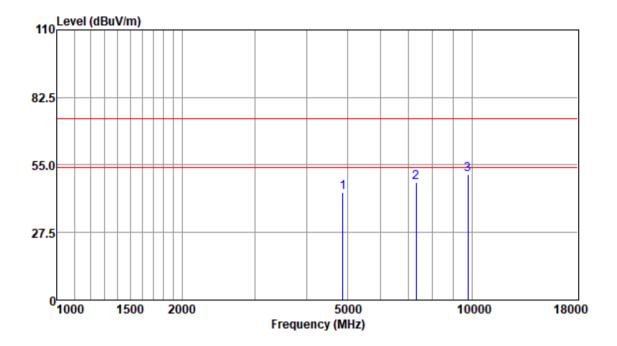
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### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 42.26 | 33.66 | 4.73 | 36.81 | 43.84             | 74.00  | -30.16 | Peak   |
| 7320.00 | 40.26 | 36.33 | 6.59 | 35.42 | 47.76             | 74.00  | -26.24 | Peak   |
| 9760.00 | 38.57 | 37.54 | 8.69 | 33.50 | 51.30             | 74.00  | -22.70 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



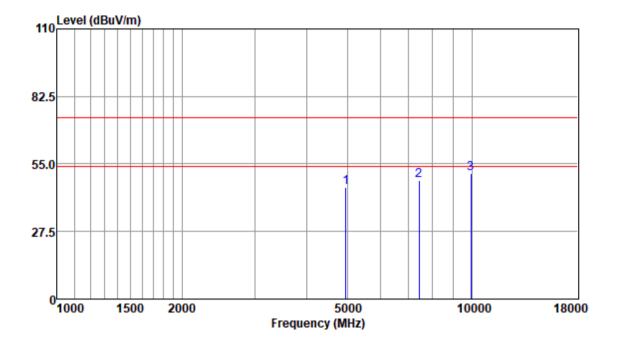
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### Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



#### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      | -     | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 43.71 | 33.65 | 4.92 | 36.83 | 45.45             | 74.00  | -28.55 | Peak   |
| 7440.00 | 40.80 | 36.31 | 6.61 | 35.34 | 48.38             | 74.00  | -25.62 | Peak   |
| 9920.00 | 37.95 | 37.62 | 8.87 | 33.41 | 51.03             | 74.00  | -22.97 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



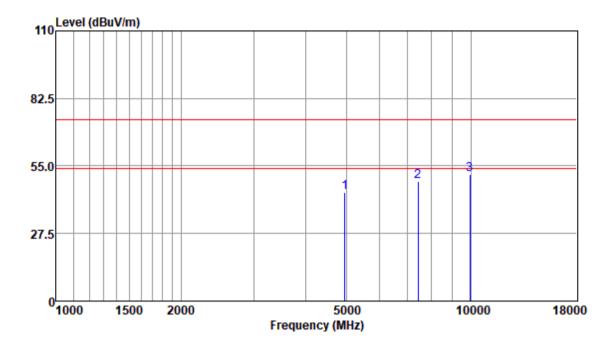
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### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 42.59 | 33.65 | 4.92 | 36.83 | 44.33             | 74.00  | -29.67 | Peak   |
| 7440.00 | 41.20 | 36.31 | 6.61 | 35.34 | 48.78             | 74.00  | -25.22 | Peak   |
| 9920.00 | 38.33 | 37.62 | 8.87 | 33.41 | 51.41             | 74.00  | -22.59 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



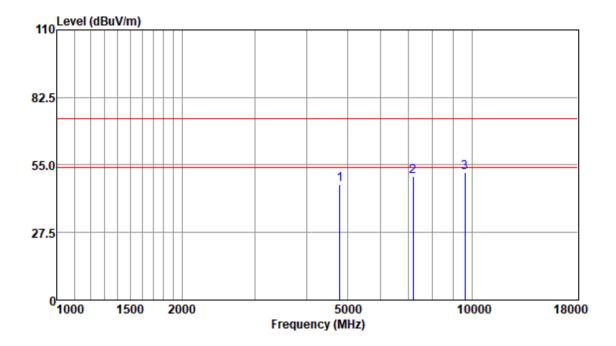
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### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4804.00 | 45.80 | 33.57 | 4.53 | 36.79 | 47.11             | 74.00  | -26.89 | Peak   |
| 7206.00 | 42.81 | 36.24 | 6.66 | 35.53 | 50.18             | 74.00  | -23.82 | Peak   |
| 9608.00 | 39.35 | 37.75 | 8.56 | 33.58 | 52.08             | 74.00  | -21.92 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



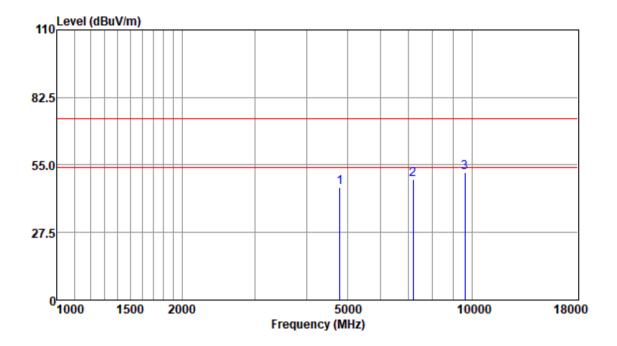
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### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



### Antenna Polarity :VERTICAL

| <b>F</b> |       |        |      |        | Emission |        |        | Description |
|----------|-------|--------|------|--------|----------|--------|--------|-------------|
| Freq     | rever | Factor | LOSS | Factor | Level    | Line   | Limit  | Kemark      |
|          |       |        |      |        |          |        |        |             |
| MHz      | dBuv  | dB/m   | dB   | dB     | dBuv/m   | dBuv/m | dB     |             |
| 4804.00  | 44.45 | 33.57  | 4.53 | 36.79  | 45.76    | 74.00  | -28.24 | Peak        |
| 7206.00  | 41.91 | 36.24  | 6.66 | 35.53  | 49.28    | 74.00  | -24.72 | Peak        |
| 9608.00  | 39.26 | 37.75  | 8.56 | 33.58  | 51.99    | 74.00  | -22.01 | Peak        |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



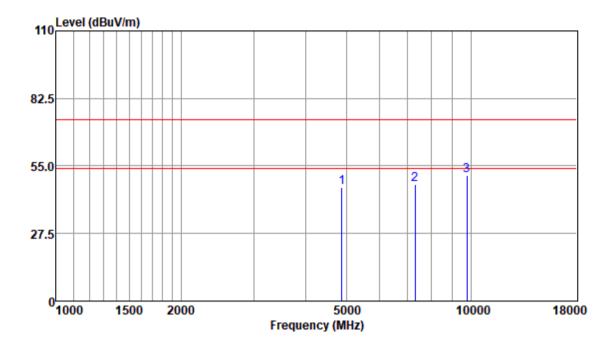
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### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 44.67 | 33.66 | 4.73 | 36.81 | 46.25             | 74.00  | -27.75 | Peak   |
| 7320.00 | 40.11 | 36.33 | 6.59 | 35.42 | 47.61             | 74.00  | -26.39 | Peak   |
| 9760.00 | 38.60 | 37.54 | 8.69 | 33.50 | 51.33             | 74.00  | -22.67 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



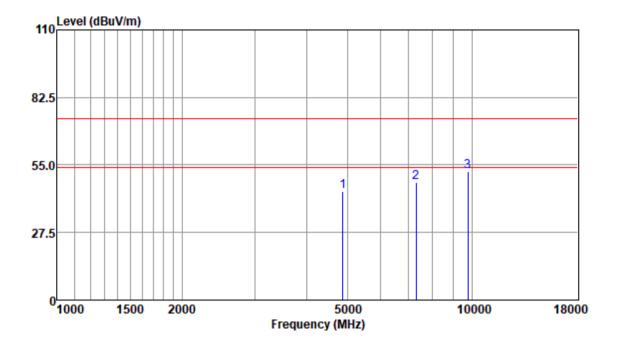
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### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 42.49 | 33.66 | 4.73 | 36.81 | 44.07             | 74.00  | -29.93 | Peak   |
| 7320.00 | 40.31 | 36.33 | 6.59 | 35.42 | 47.81             | 74.00  | -26.19 | Peak   |
| 9760.00 | 39.49 | 37.54 | 8.69 | 33.50 | 52.22             | 74.00  | -21.78 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



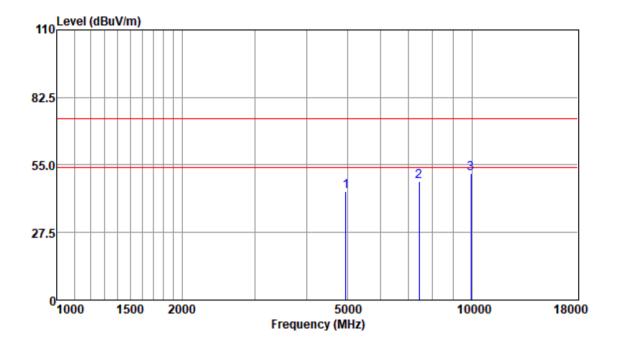
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### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 42.52 | 33.65 | 4.92 | 36.83 | 44.26             | 74.00  | -29.74 | Peak   |
| 7440.00 | 40.91 | 36.31 | 6.61 | 35.34 | 48.49             | 74.00  | -25.51 | Peak   |
| 9920.00 | 38.55 | 37.62 | 8.87 | 33.41 | 51.63             | 74.00  | -22.37 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



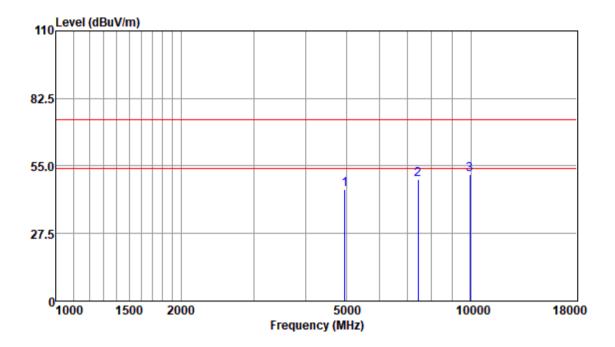
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### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 43.64 | 33.65 | 4.92 | 36.83 | 45.38             | 74.00  | -28.62 | Peak   |
| 7440.00 | 41.96 | 36.31 | 6.61 | 35.34 | 49.54             | 74.00  | -24.46 | Peak   |
| 9920.00 | 38.54 | 37.62 | 8.87 | 33.41 | 51.62             | 74.00  | -22.38 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



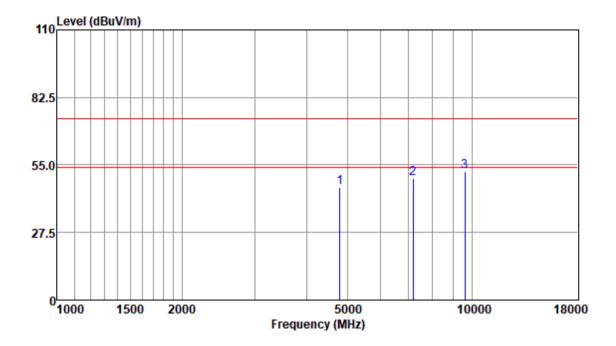
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#### Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Antenna Polarity :HORIZONTAL

| <b>F</b> |       |        |      |        | Emission |        |        | Demanda |
|----------|-------|--------|------|--------|----------|--------|--------|---------|
| Freq     | rever | Factor | LOSS | Factor | Level    | Line   | Limit  | Kemark  |
|          |       |        |      |        |          |        |        |         |
| MHz      | dBuv  | dB/m   | dB   | dB     | dBuv/m   | dBuv/m | dB     |         |
| 4804.00  | 44.70 | 33.57  | 4.53 | 36.79  | 46.01    | 74.00  | -27.99 | Peak    |
| 7206.00  | 42.04 | 36.24  | 6.66 | 35.53  | 49.41    | 74.00  | -24.59 | Peak    |
| 9608.00  | 39.65 | 37.75  | 8.56 | 33.58  | 52.38    | 74.00  | -21.62 | Peak    |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



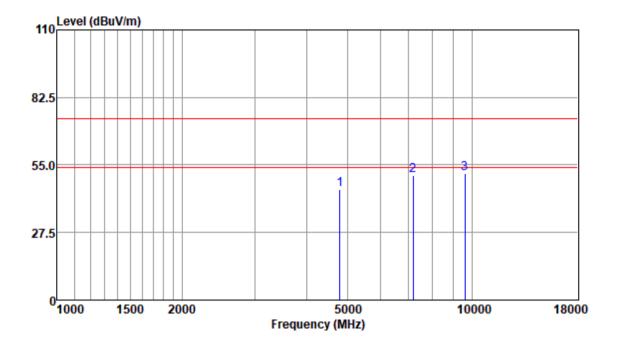
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### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



### Antenna Polarity :VERTICAL

| Enog    |       |        |      |        | Emission |        |         | Romank           |
|---------|-------|--------|------|--------|----------|--------|---------|------------------|
| Freq    | rever | Factor | LOSS | Factor | Level    | LTHE   | LTIIITC | <b>Velila</b> LK |
|         |       |        |      |        |          |        |         |                  |
| MHz     | dBuv  | dB/m   | dB   | dB     | dBuv/m   | dBuv/m | dB      |                  |
| 4804.00 | 43.88 | 33.57  | 4.53 | 36.79  | 45.19    | 74.00  | -28.81  | Peak             |
| 7206.00 | 43.23 | 36.24  | 6.66 | 35.53  | 50.60    | 74.00  | -23.40  | Peak             |
| 9608.00 | 38.81 | 37.75  | 8.56 | 33.58  | 51.54    | 74.00  | -22.46  | Peak             |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



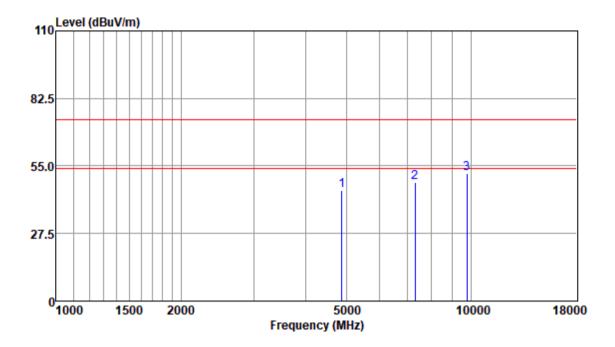
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### Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 43.40 | 33.66 | 4.73 | 36.81 | 44.98             | 74.00  | -29.02 | Peak   |
| 7320.00 | 40.81 | 36.33 | 6.59 | 35.42 | 48.31             | 74.00  | -25.69 | Peak   |
| 9760.00 | 39.21 | 37.54 | 8.69 | 33.50 | 51.94             | 74.00  | -22.06 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



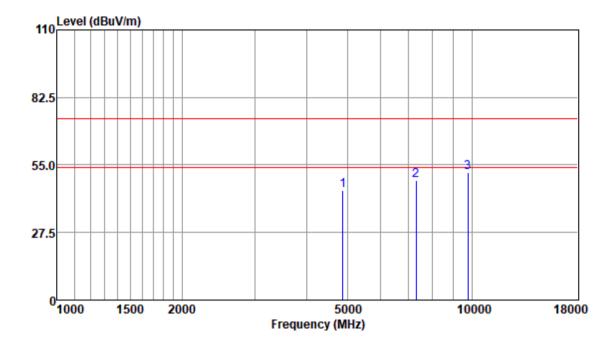
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### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4880.00 | 42.96 | 33.66 | 4.73 | 36.81 | 44.54             | 74.00  | -29.46 | Peak   |
| 7320.00 | 41.31 | 36.33 | 6.59 | 35.42 | 48.81             | 74.00  | -25.19 | Peak   |
| 9760.00 | 39.27 | 37.54 | 8.69 | 33.50 | 52.00             | 74.00  | -22.00 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



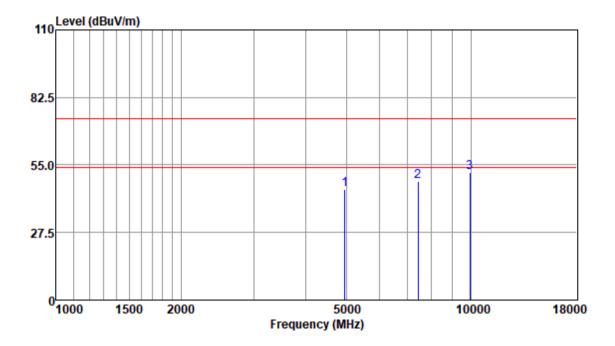
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### Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



### Antenna Polarity :HORIZONTAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 43.29 | 33.65 | 4.92 | 36.83 | 45.03             | 74.00  | -28.97 | Peak   |
| 7440.00 | 40.53 | 36.31 | 6.61 | 35.34 | 48.11             | 74.00  | -25.89 | Peak   |
| 9920.00 | 38.78 | 37.62 | 8.87 | 33.41 | 51.86             | 74.00  | -22.14 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



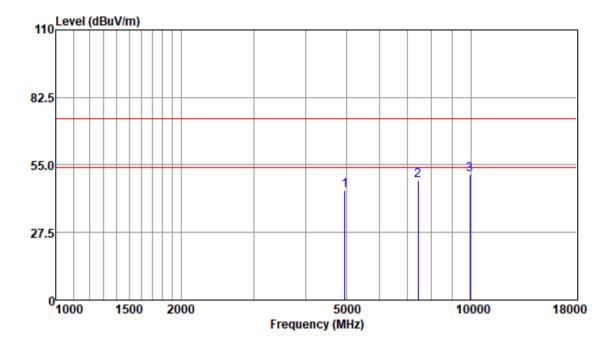
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### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

| Freq    |       |       |      |       | Emission<br>Level |        |        | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
|         |       |       |      |       |                   |        |        |        |
| MHz     | dBuv  | dB/m  | dB   | dB    | dBuv/m            | dBuv/m | dB     |        |
| 4960.00 | 43.09 | 33.65 | 4.92 | 36.83 | 44.83             | 74.00  | -29.17 | Peak   |
| 7440.00 | 41.17 | 36.31 | 6.61 | 35.34 | 48.75             | 74.00  | -25.25 | Peak   |
| 9920.00 | 38.03 | 37.62 | 8.87 | 33.41 | 51.11             | 74.00  | -22.89 | Peak   |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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### 7.9 99% Bandwidth

| Test Requirement | RSS-Gen Section 6.7       |
|------------------|---------------------------|
| Test Method:     | ANSI C63.10 Section 6.9.3 |

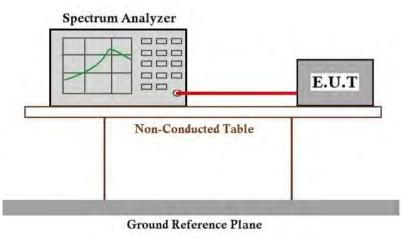
### 7.9.1 E.U.T. Operation

Operating Environment:Temperature:24.7 °CHumidity:63.6 % RHAtmospheric Pressure:1010mbar

### 7.9.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                             |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |
| Final test               | 01           | TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation. |

### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2305001033HS

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2305001033HS

# 10 Appendix

### 10.1 Appendix A: DTS Bandwidth

10.1.1 Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
|           |         | 2402    | 0.664        | 2401.660 | 2402.324 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440    | 0.660        | 2439.660 | 2440.320 | 0.5        | PASS    |
|           |         | 2480    | 0.664        | 2479.656 | 2480.320 | 0.5        | PASS    |
|           |         | 2402    | 1.384        | 2401.256 | 2402.640 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440    | 1.352        | 2439.308 | 2440.660 | 0.5        | PASS    |
|           |         | 2480    | 1.408        | 2479.260 | 2480.668 | 0.5        | PASS    |



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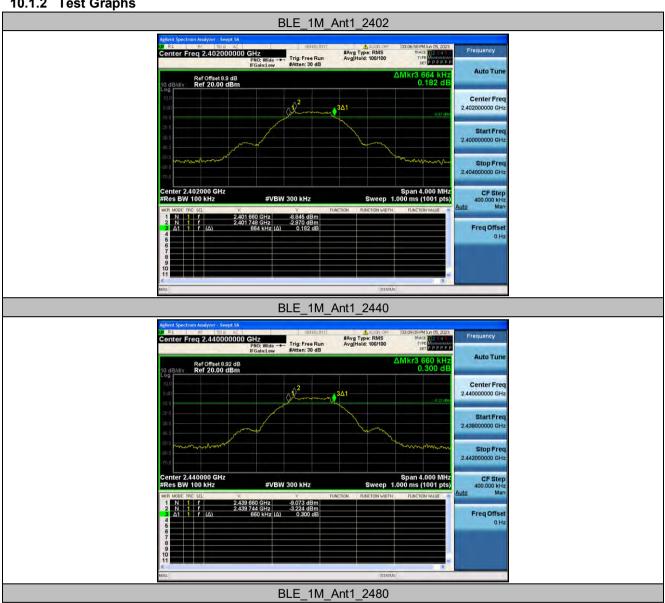
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#### 10.1.2 Test Graphs

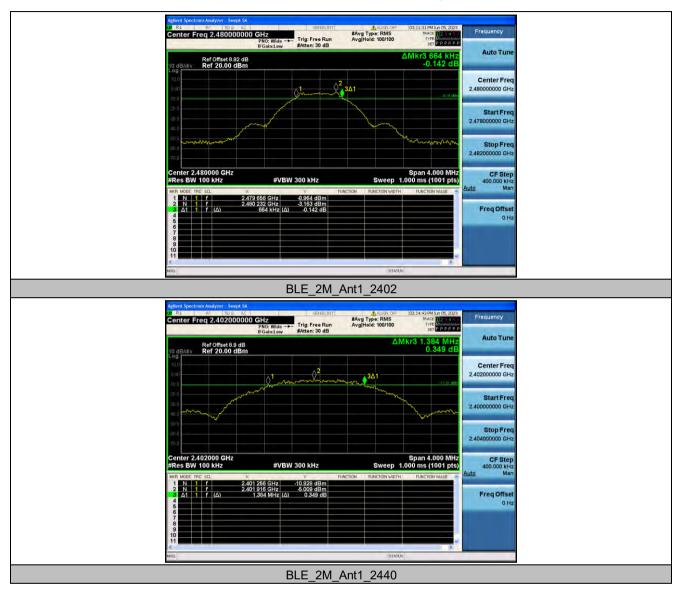


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### 10.2 Appendix B: Occupied Channel Bandwidth

10.2.1 Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|-----------|-----------|------------|---------|
|           |         | 2402    | 1.0327    | 2401.4717 | 2402.5044 |            |         |
| BLE_1M    | Ant1    | 2440    | 1.0114    | 2439.4861 | 2440.4975 |            |         |
|           |         | 2480    | 1.0183    | 2479.4855 | 2480.5038 |            |         |
|           |         | 2402    | 2.0532    | 2400.9722 | 2403.0254 |            |         |
| BLE_2M    | Ant1    | 2440    | 2.0379    | 2438.9746 | 2441.0125 |            |         |
|           |         | 2480    | 2.0457    | 2478.9593 | 2481.0050 |            |         |



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BLE 1M Ant1 2402 Center Freq: 2.402000000 GHz Trig: Free Run Availate 03:07:05 PM Jun 05, Radio Std: None Frequency enter Freq 2.402000000 GHz Id: 100/100 Radio Device: BTS 2.402072 GH -5.0247 dBr Ref Offset 8.9 dB Ref 20.00 dBm Center Free 2,40200000 GH: CF Step 400.000 kH Ma enter 2.402 GHz Res BW 43 kHz Span 4 MHz Sweep 2.067 ms #VBW 130 kHz Total Power 4.73 dBm Occupied Bandwidth 1.0327 MHz Freq Offs Transmit Freq Error -11.944 kHz **OBW Power** 99.00 % 01 x dB Bandwidth 1.327 MHz x dB -26.00 dB BLE 1M Ant1 2440 SENSE VIT Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB 03:09:17 PM Jun 05, 2 Radio Std: None Frequency enter Freq 2.440000000 GH Radio Device: BTS 2.44004 GH -4.3512 dBr Ref Offset 8.92 dB Ref 20.00 dBm Center Fre 2.440000000 GH CF Ster 400.000 kH Ma Span 4 MHz Sweep 2.067 ms enter 2.44 GHz Res BW 43 kHz #VBW 130 kHz Total Power 5.02 dBm Occupied Bandwidth 1.0114 MHz Freq Offs Transmit Freq Error -8.241 kHz **OBW Power** 99.00 % OH 1.282 MHz -26.00 dB x dB Bandwidth x dB BLE\_1M\_Ant1\_2480

#### 10.2.2 Test Graphs



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### 10.3 Appendix C: Maximum conducted output power

10.3.1 Test Result

| Test Mode | Antenna     | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|-------------|---------|-------------|------------|---------|
|           |             | 2402    | -2.46       | ≤30        | PASS    |
| BLE_1M    | BLE_1M Ant1 | 2440    | -2.42       | ≤30        | PASS    |
|           |             | 2480    | -2.77       | ≤30        | PASS    |
|           |             | 2402    | -2.49       | ≤30        | PASS    |
| BLE_2M    | Ant1        | 2440    | -2.47       | ≤30        | PASS    |
|           |             | 2480    | -2.76       | ≤30        | PASS    |



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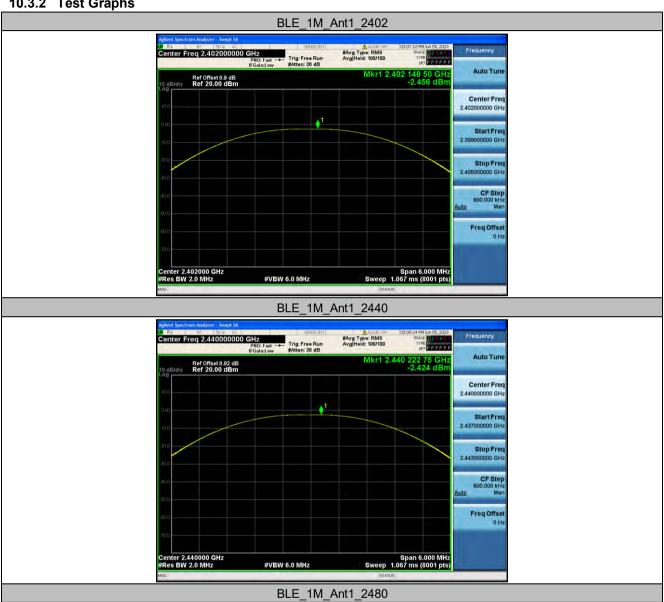
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#### 10.3.2 Test Graphs

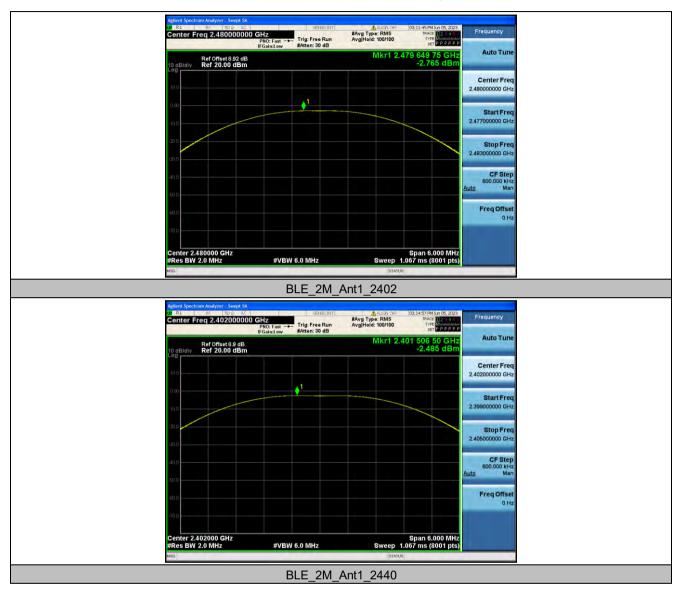


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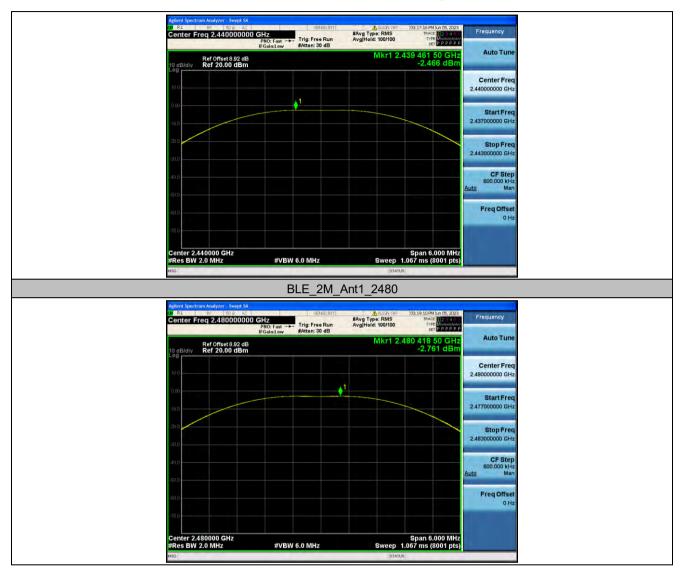


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### 10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

| Test Mode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
|           |         |         | -11.9                | ≤8.00           | PASS    |
| BLE_1M    | Ant1    | 2440    | -11.85               | ≤8.00           | PASS    |
|           |         | 2480    | -12.77               | ≤8.00           | PASS    |
|           |         | 2402    | -15.43               | ≤8.00           | PASS    |
| BLE_2M    | Ant1    | 2440    | -14.06               | ≤8.00           | PASS    |
|           |         | 2480    | -15                  | ≤8.00           | PASS    |



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10.4.2 Test Graphs BLE 1M Ant1 2402 #Avg Type: RMS Avg Hold: 100/100 Frequency nter Freq 2.402000000 GHz Trig: Free Run Auto Tun 2 043 54 GI -11.901 dE Ref Offset 8.9 dB Ref 20.00 dBm Center Free 2,402000000 GH Start Free 1 2.401502000 GH Address - Antes in here and the starting with the Stop Fre 2.40 498000 GH CF Ster 99.600 kH Mar Freq Offs 01 Span 996.0 kHz Sweep 106.0 ms (30000 pts nter 2.4020000 GHz es BW 3.0 kHz #VBW 10 kHz BLE\_1M\_Ant1 2440 Frequency ter Freq 2.44000000 GH #Avg Type: RMS Trig: Free Run Auto Tun Ref Offset 8.92 dB Ref 20.00 dBm 0 012 92 GI -11.851 dB Center Fre 2.440000000 GH Start Free an in the second states and the second 2.439505000 G Liffatel Stop Free 2.440495000 GH CF Step 99.000 kH Ma Freq Offs OH Span 990.0 kHz Sweep 106.0 ms (30000 nter 2.4400000 GHz es BW 3.0 kHz #VBW 10 kHz BLE\_1M\_Ant1\_2480

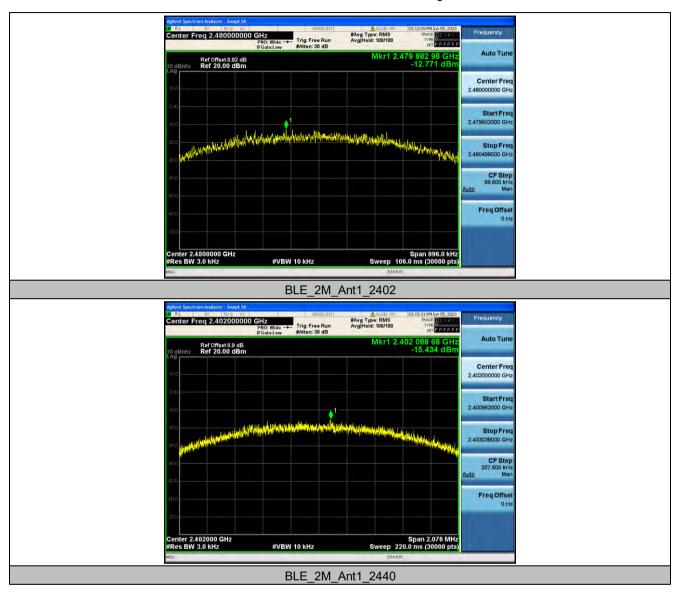


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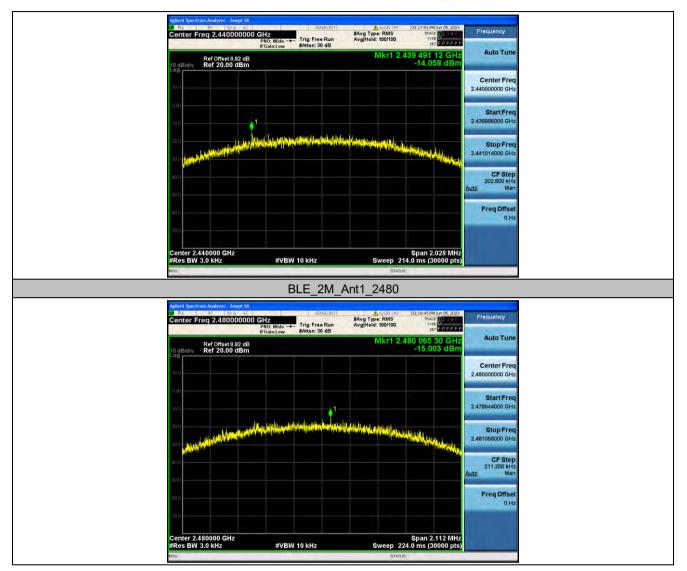


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#### 10.5 Appendix E: Band edge measurements

10.5.1 Test Result

| Test Mode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE 1M    | Ant1    | Low    | 2402    | -3.04         | -49.52      | ≤-23.04    | PASS    |
| DLC_IM    | Anti    | High   | 2480    | -3.50         | -49.39      | ≤-23.5     | PASS    |
| BLE 2M    | Ant1    | Low    | 2402    | -4.17         | -39.19      | ≤-24.17    | PASS    |
| DLE_2M    |         | High   | 2480    | -5.38         | -49.22      | ≤-25.38    | PASS    |



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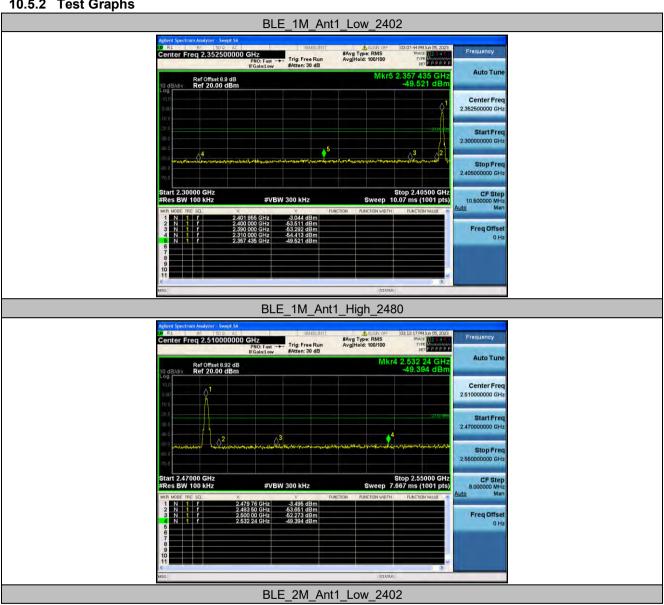
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#### 10.5.2 Test Graphs

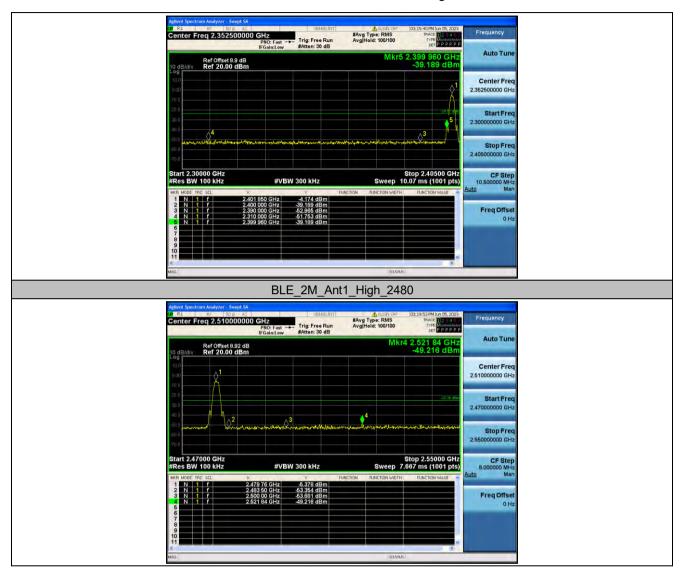


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#### 10.6 Appendix F: Conducted Spurious Emission

10.6.1 Test Result

| Test Mode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
|           |         |         | Reference          | -4.10             | -4.10       |            | PASS    |
|           |         | 2402    | 30~1000            | -4.10             | -61.81      | ≤-24.1     | PASS    |
|           |         |         | 1000~26500         | -4.10             | -43.04      | ≤-24.1     | PASS    |
|           |         |         | Reference          | -3.01             | -3.01       |            | PASS    |
| BLE_1M    | Ant1    | 2440    | 30~1000            | -3.01             | -62.42      | ≤-23.01    | PASS    |
|           |         |         | 1000~26500         | -3.01             | -42.8       | ≤-23.01    | PASS    |
|           |         | 2480    | Reference          | -3.19             | -3.19       |            | PASS    |
|           |         |         | 30~1000            | -3.19             | -61.98      | ≤-23.19    | PASS    |
|           |         |         | 1000~26500         | -3.19             | -42.93      | ≤-23.19    | PASS    |
|           |         | 2402    | Reference          | -5.09             | -5.09       |            | PASS    |
|           |         |         | 30~1000            | -5.09             | -61.4       | ≤-25.09    | PASS    |
|           |         |         | 1000~26500         | -5.09             | -43.02      | ≤-25.09    | PASS    |
|           |         |         | Reference          | -5.08             | -5.08       |            | PASS    |
| BLE_2M    | Ant1    | 2440    | 30~1000            | -5.08             | -61.6       | ≤-25.08    | PASS    |
|           |         |         | 1000~26500         | -5.08             | -43.08      | ≤-25.08    | PASS    |
|           |         |         | Reference          | -5.65             | -5.65       |            | PASS    |
|           |         | 2480    | 30~1000            | -5.65             | -61.82      | ≤-25.65    | PASS    |
|           |         |         | 1000~26500         | -5.65             | -43.44      | ≤-25.65    | PASS    |



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BLE\_1M\_Ant1\_2402\_0~Reference #Avg Type: RMS AvgHold: 10/10 Frequency nter Freq 2.402000000 GHz Trig: Free Run Auto Tun 02 018 ( -4 095 d Ref Offset 8.9 dB Ref 28.90 dBm Center Free 2,402000000 GH Start Free 2.400500000 GH Stop Fre 2.403500000 GH CF Ster 300.000 kH Mai Freq Offs 01 Span 3.000 MHz Sweep 1.000 ms (1001 pts nter 2.402000 GHz #VBW 300 kHz BLE\_1M\_Ant1\_2402 30~1000 Frequency nter Freq 515.000000 MHz #Avg Type: RMS Trig: Free Run Auto Tun Ref Offset 8.9 dB Ref 18.90 dBm -61.811 dB Center Fre 515.000000 MH Start Free 30.000000 MH Stop Free 1.00000000 GH CF Step 97.00 M Freq Offs 01 Stop 1.0000 GHz Sweep 94.00 ms (30001 pts #VBW 300 kHz BLE\_1M\_Ant1\_2402\_1000~26500

#### 10.6.2 Test Graphs



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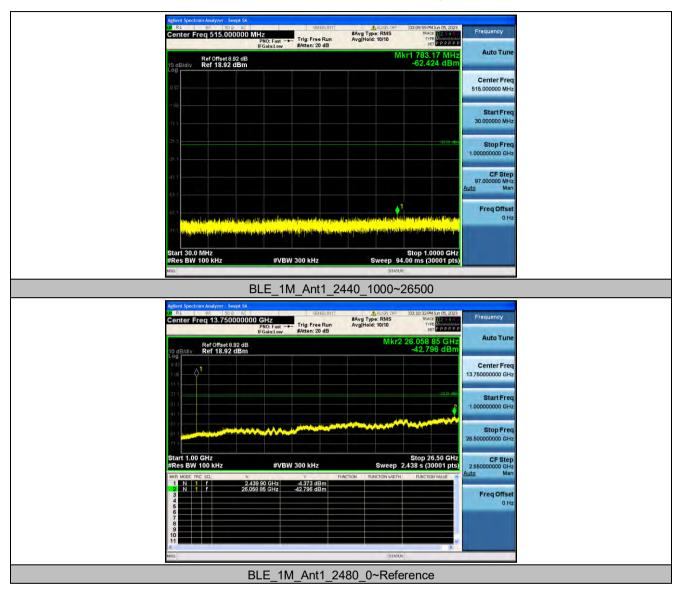


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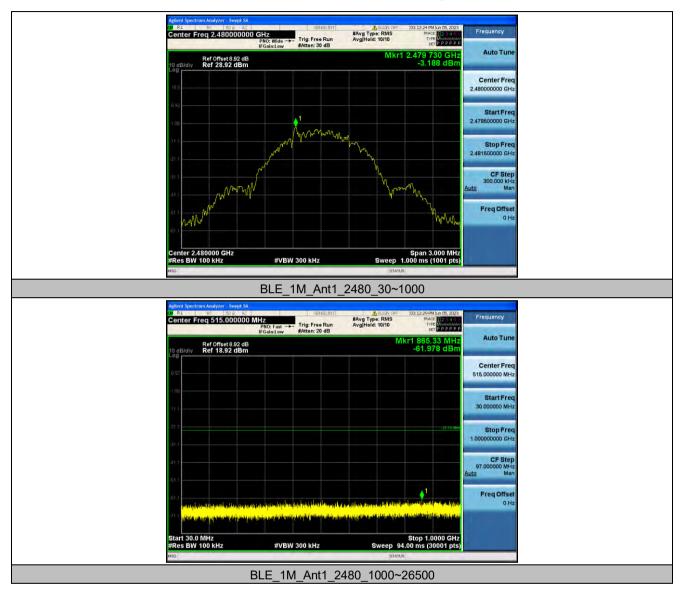


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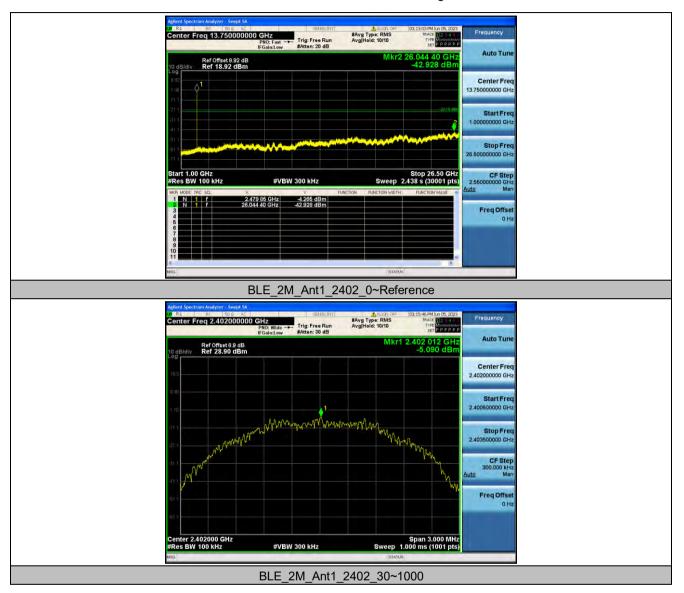


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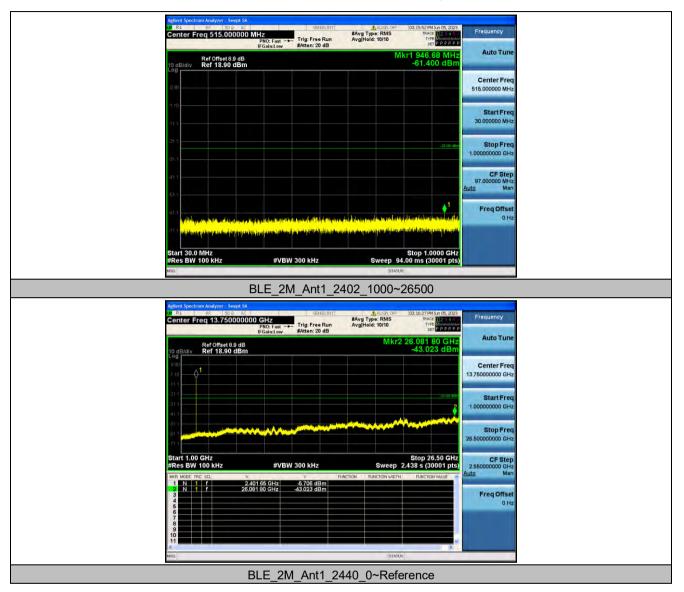


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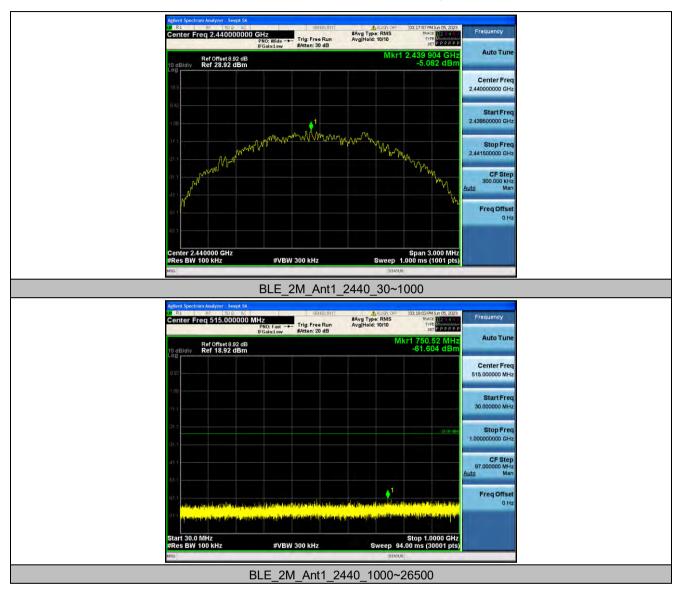


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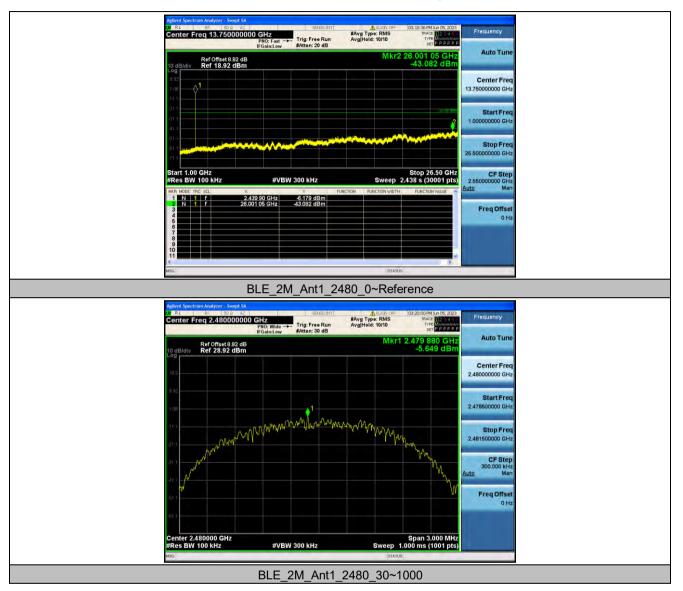


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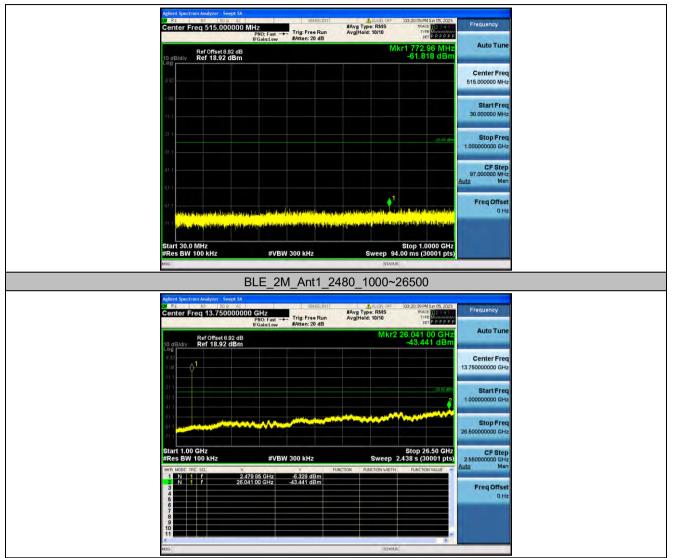


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