

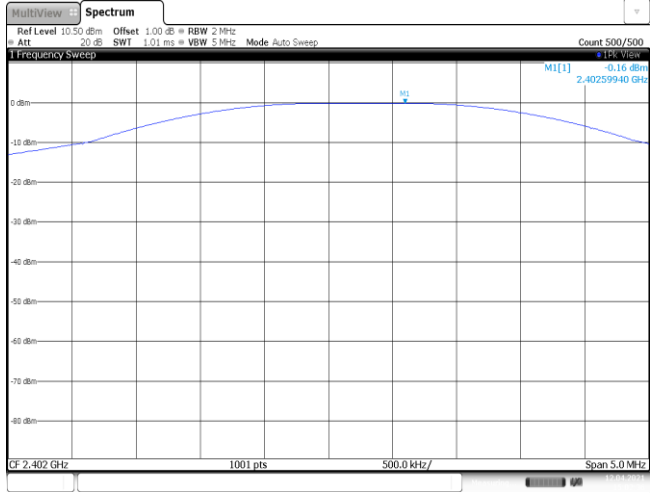
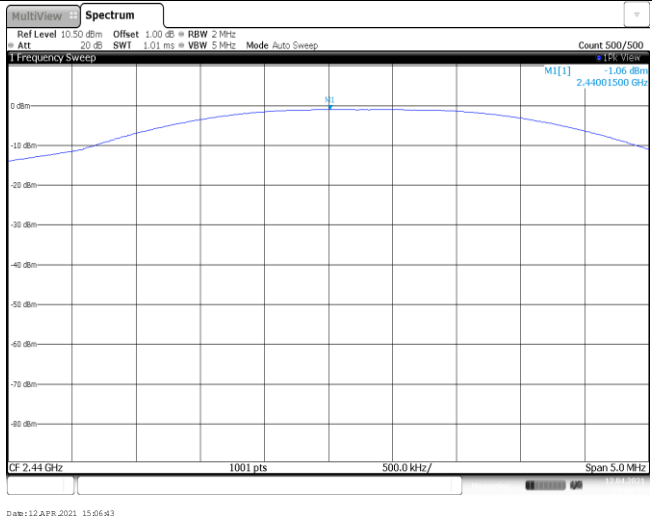
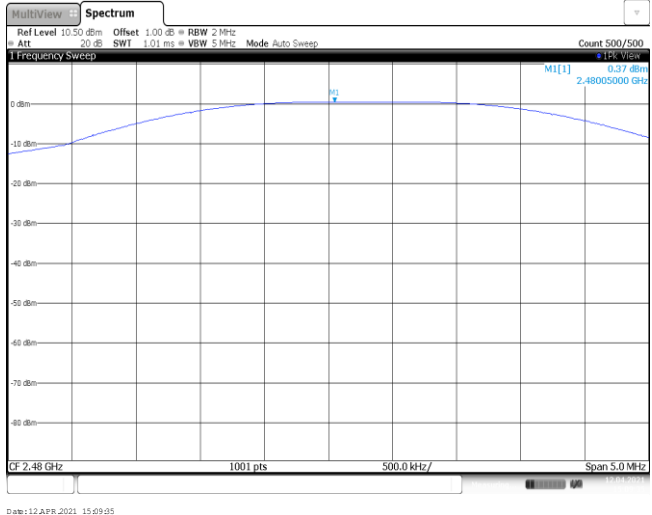
APPENDIX REPORT

| | | | |
|-----------------|-----------------|---------------------|---------------|
| Project No. | SHT2103085501EW | Radio Specification | Bluetooth BLE |
| Test sample No. | YPHT21030855002 | Model No. | E104-BT05 |
| Start test date | 2021-04-12 | Finish date | 2021-04-12 |
| Temperature | 24.1°C | Humidity | 41% |
| Test Engineer | Hailey Chen | Auditor | Xiaodong Zhu |

| Appendix clause | Test item | Result |
|-----------------|--|--------|
| A | Peak Output Power | PASS |
| B | Power Spectral Density | PASS |
| C | 6 dB Bandwidth | PASS |
| D | 99% Occupied Bandwidth | PASS |
| E | Duty cycle | PASS |
| F | Band edge and Spurious Emissions (conducted) | PASS |

Appendix A: Peak Output Power

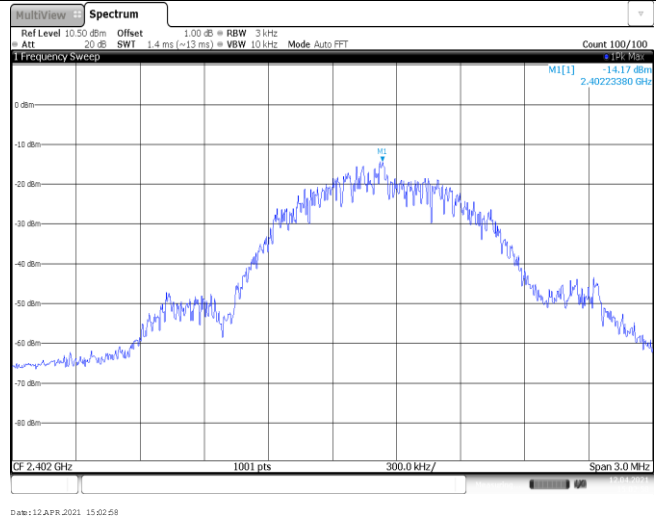
| Type | Channel | Output power (dBm) | Average Output power (dBm) | Limit (dBm) | Result |
|--------|---------|--------------------|----------------------------|-------------|--------|
| BT-BLE | 00 | -0.16 | -0.17 | ≤ 30.00 | Pass |
| | 19 | -1.06 | -1.07 | | |
| | 39 | 0.37 | 0.35 | | |

| | |
|-------------|---|
| <p>CH00</p> |  <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -0.16 dBm 2.40259940 GHz CF 2.402 GHz 1001 pts 500.0 kHz/pt Span 5.0 MHz Date: 12 APR, 2021 15:02:36</p> |
| <p>CH19</p> |  <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -1.06 dBm 2.44001500 GHz CF 2.44 GHz 1001 pts 500.0 kHz/pt Span 5.0 MHz Date: 12 APR, 2021 15:06:43</p> |
| <p>CH39</p> |  <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 0.37 dBm 2.48005000 GHz CF 2.48 GHz 1001 pts 500.0 kHz/pt Span 5.0 MHz Date: 12 APR, 2021 15:09:25</p> |

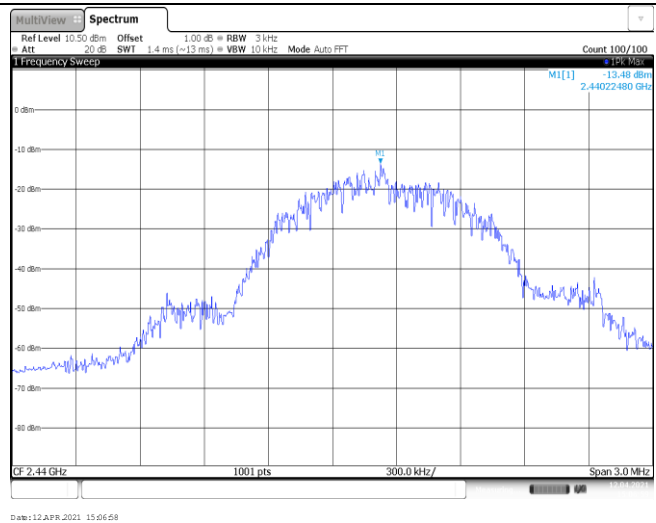
Appendix B: Power Spectral Density

| Type | Channel | Power Spectral Density(dBm/3KHz) | Limit (dBm/3KHz) | Result |
|--------|---------|----------------------------------|------------------|--------|
| BT-BLE | 00 | -14.17 | ≤8.00 | Pass |
| | 19 | -13.48 | | |
| | 39 | -13.41 | | |

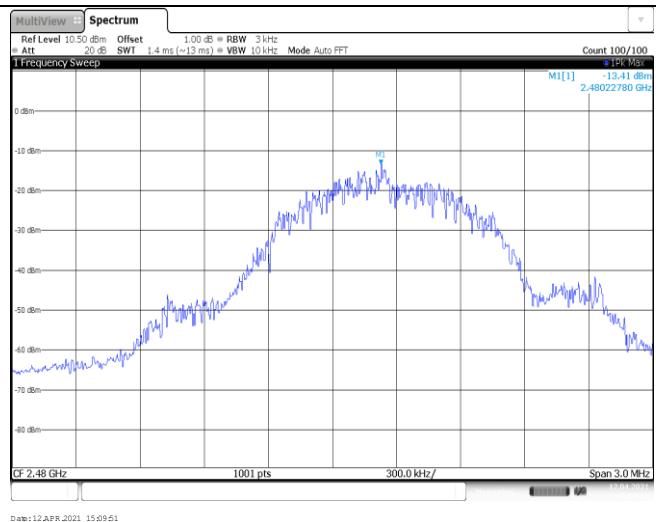
CH00



CH19



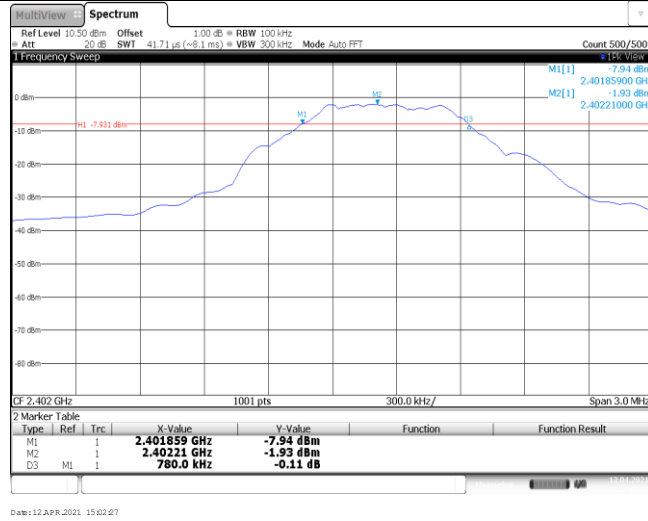
CH39



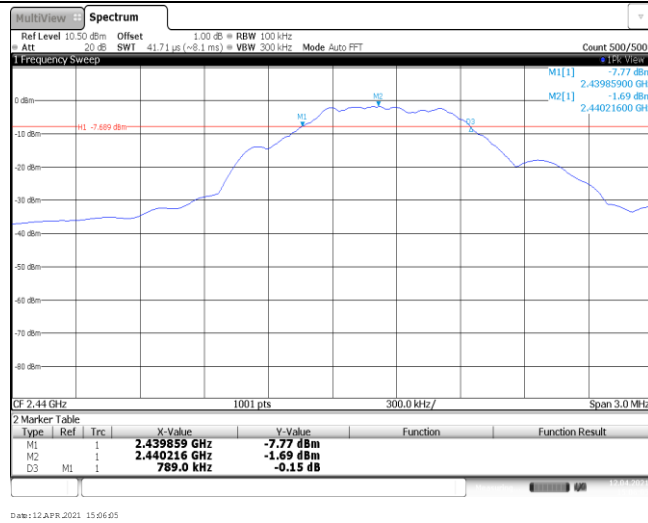
Appendix C: 6dB bandwidth

| Type | Channel | 6dB Bandwidth(kHz) | Limit (kHz) | Result |
|--------|---------|--------------------|-------------|--------|
| BT-BLE | 00 | 780.00 | ≥500 | Pass |
| | 19 | 789.00 | | |
| | 39 | 750.00 | | |

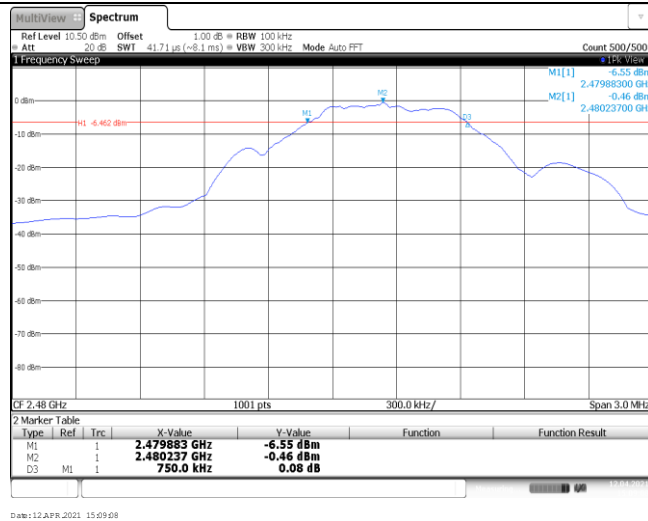
CH00



CH19



CH39



Appendix D: 99% Occupied Bandwidth

| Type | Channel | 99% Occupied Bandwidth(MHz) | Limit (kHz) | Result |
|--------|---------|-----------------------------|-------------|--------|
| BT-BLE | 00 | 1.07 | - | Pass |
| | 19 | 1.10 | | |
| | 39 | 1.12 | | |

CH00



CH19

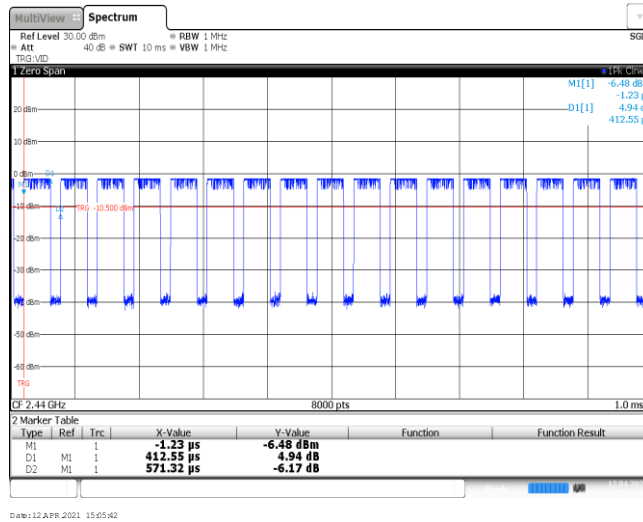


CH39

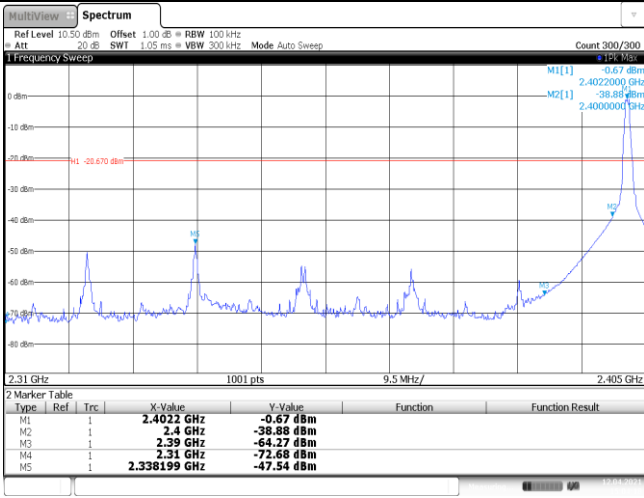
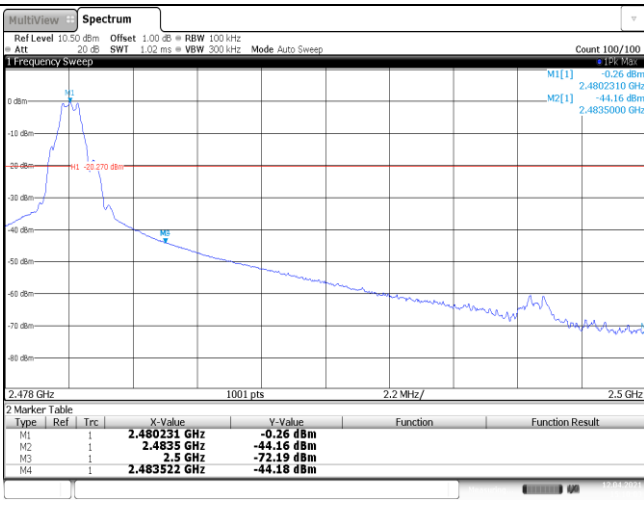


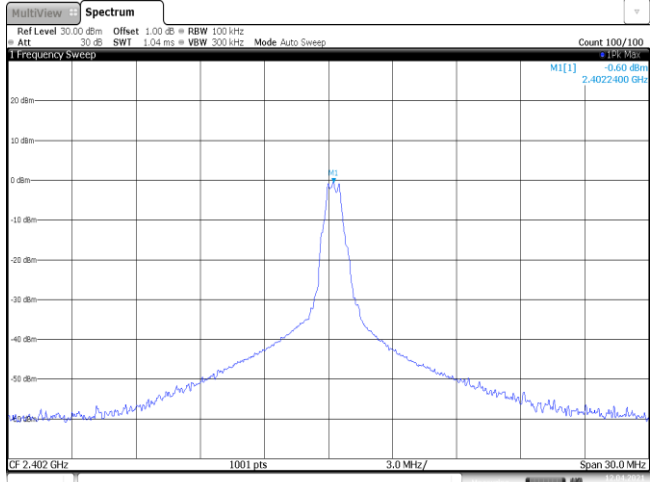
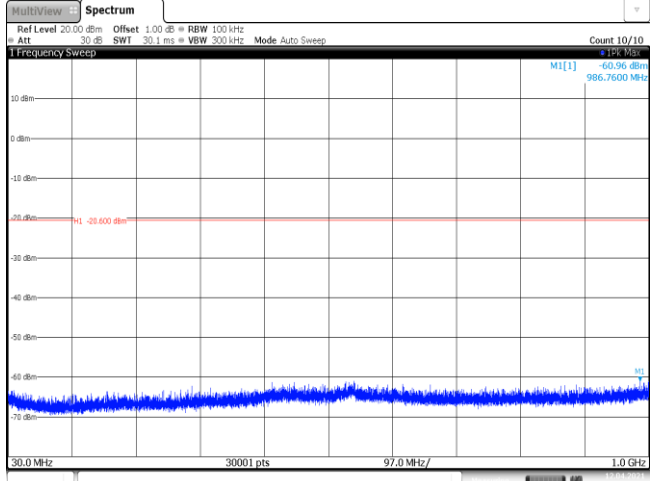
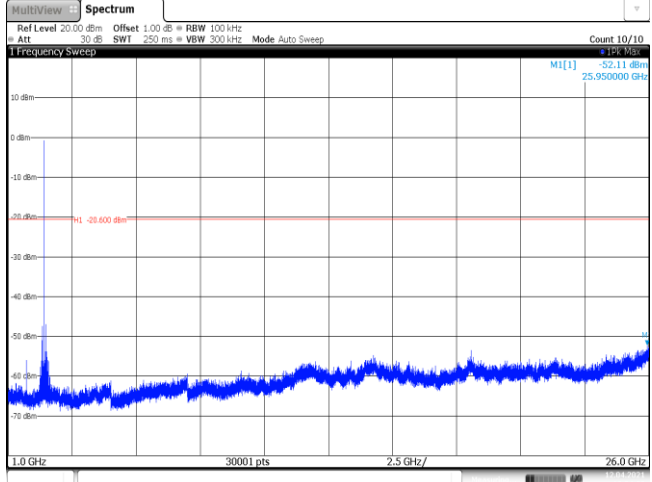
Appendix E: Duty cycle

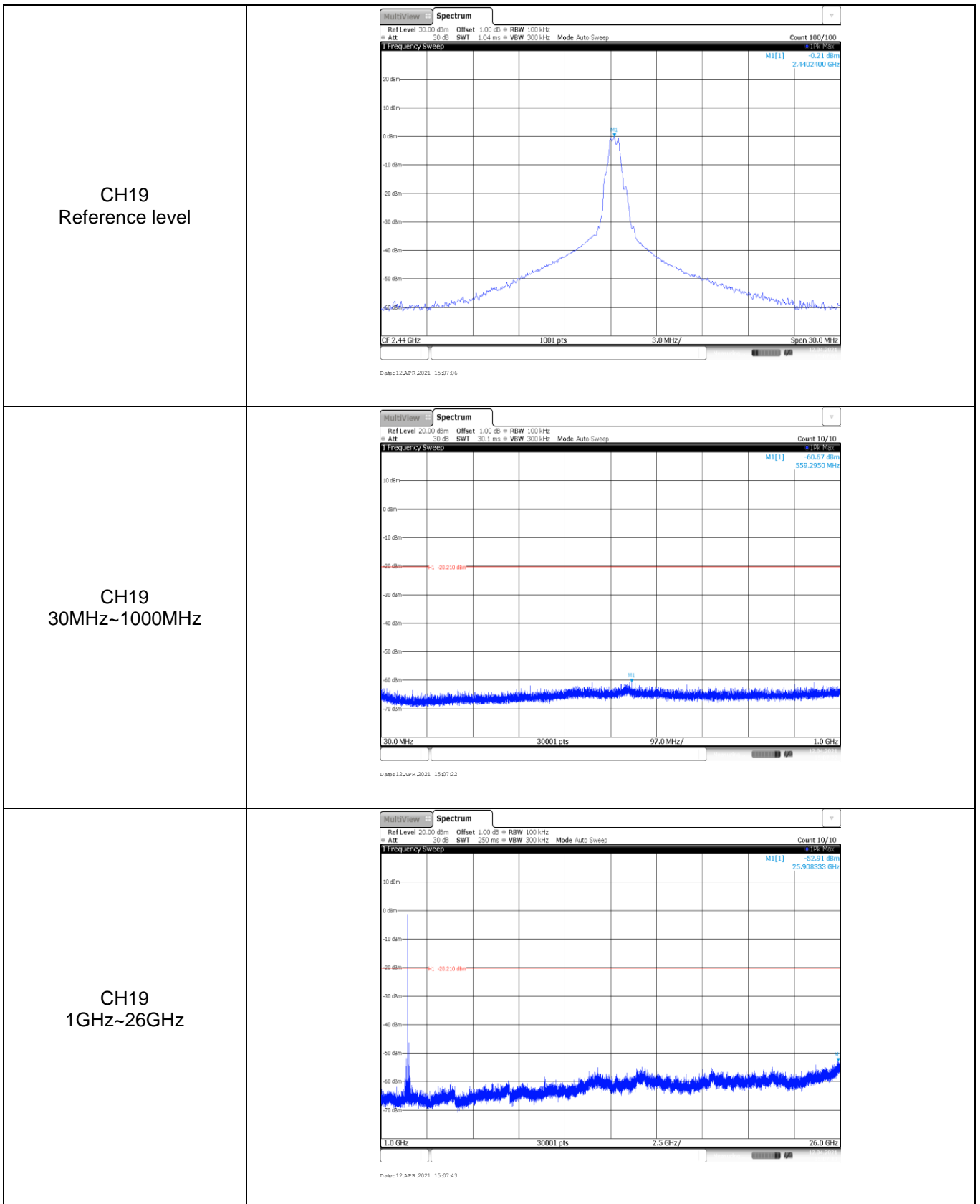
| Test Frequency (MHz) | T _{on} time for single burst (ms) | T _{period} (ms) | Duty cycle | 1/T _{on} time (kHz) |
|----------------------|--|--------------------------|------------|------------------------------|
| 2440 | 0.41 | 0.57 | 71.9% | 2.4 |

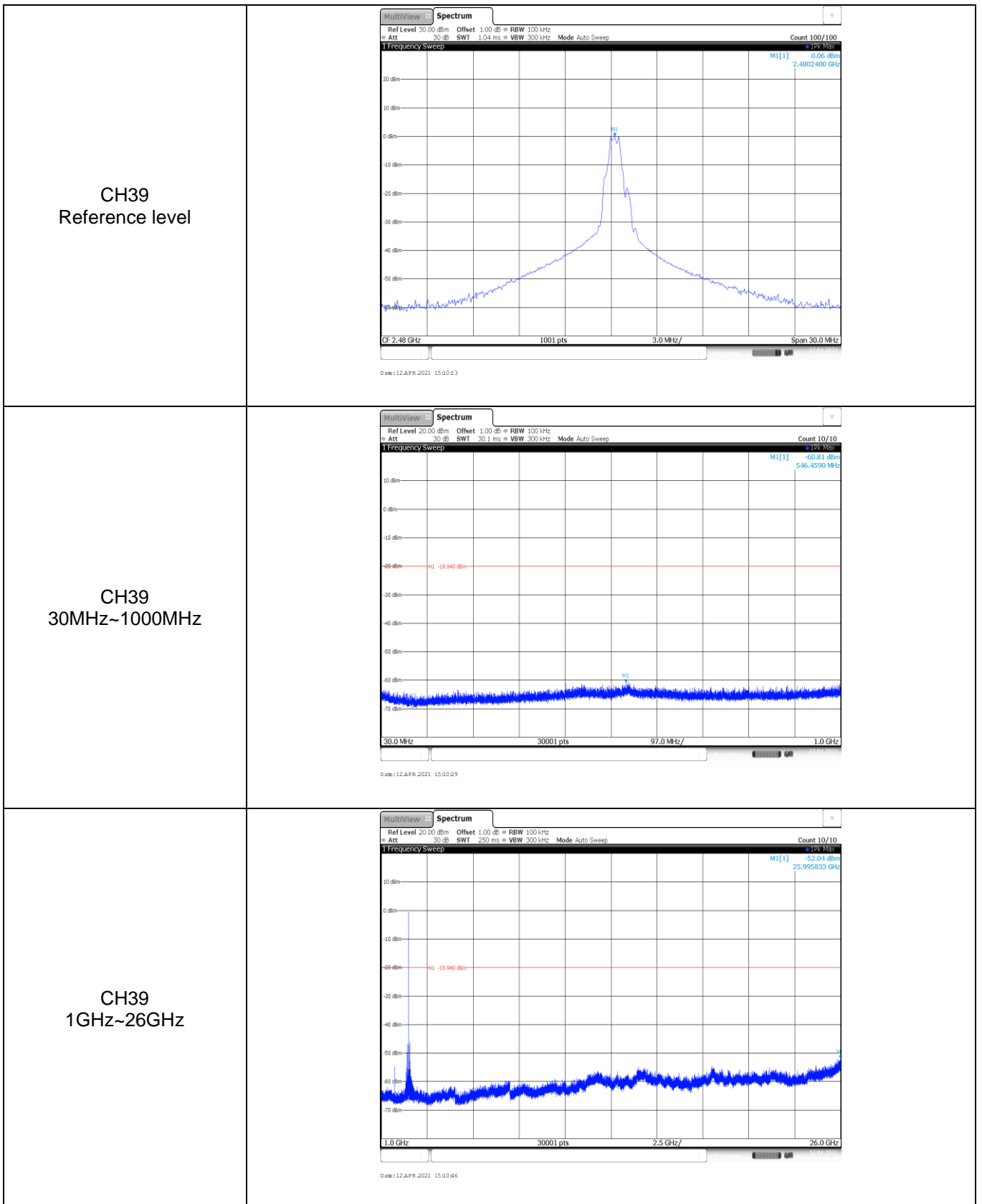


Appendix F: Band edge and Spurious Emissions (conducted)

| Test Item: | Band edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------|--------------|------------|----------|-----------------|----------|-----------------|----|---|--|--------------|-----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| <p style="text-align: center;">CH00</p> |  <p>2 Marker Table</p> <table border="1" data-bbox="686 672 1332 761"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4022 GHz</td> <td>-0.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-38.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-64.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-72.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.338199 GHz</td> <td>-47.54 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 12 APR 2021 15:04:8</p> | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.4022 GHz | -0.67 dBm | | | M2 | 1 | | 2.4 GHz | -38.85 dBm | | | M3 | 1 | | 2.39 GHz | -64.27 dBm | | | M4 | 1 | | 2.31 GHz | -72.68 dBm | | | M5 | 1 | | 2.338199 GHz | -47.54 dBm | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.4022 GHz | -0.67 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4 GHz | -38.85 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.39 GHz | -64.27 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.31 GHz | -72.68 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 | 1 | | 2.338199 GHz | -47.54 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">CH39</p> |  <p>2 Marker Table</p> <table border="1" data-bbox="686 1209 1332 1299"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.480231 GHz</td> <td>-0.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4833 GHz</td> <td>-44.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-72.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483522 GHz</td> <td>-44.18 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 12 APR 2021 15:04:4</p> | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | M1 | 1 | | 2.480231 GHz | -0.26 dBm | | | M2 | 1 | | 2.4833 GHz | -44.16 dBm | | | M3 | 1 | | 2.5 GHz | -72.19 dBm | | | M4 | 1 | | 2.483522 GHz | -44.18 dBm | | | | | | | | | |
| Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M1 | 1 | | 2.480231 GHz | -0.26 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2 | 1 | | 2.4833 GHz | -44.16 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M3 | 1 | | 2.5 GHz | -72.19 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 | 1 | | 2.483522 GHz | -44.18 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Test Item: | SE |
|---------------------------------|---|
| <p>CH00 Reference level</p> |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 0.60 dBm 2.4022400 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 12 APR 2021 15:04:25</p> |
| <p>CH00 30MHz~1000MHz</p> |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.96 dBm 986.7600 MHz CF 30.0 MHz 30001 pts 97.0 MHz/ Span 1.0 GHz Date: 12 APR 2021 15:04:41</p> |
| <p>CH00 1GHz~26GHz</p> |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -52.11 dBm 25.950000 GHz CF 1.0 GHz 30001 pts 2.5 GHz/ Span 26.0 GHz Date: 12 APR 2021 15:04:57</p> |





-----End of Report-----