

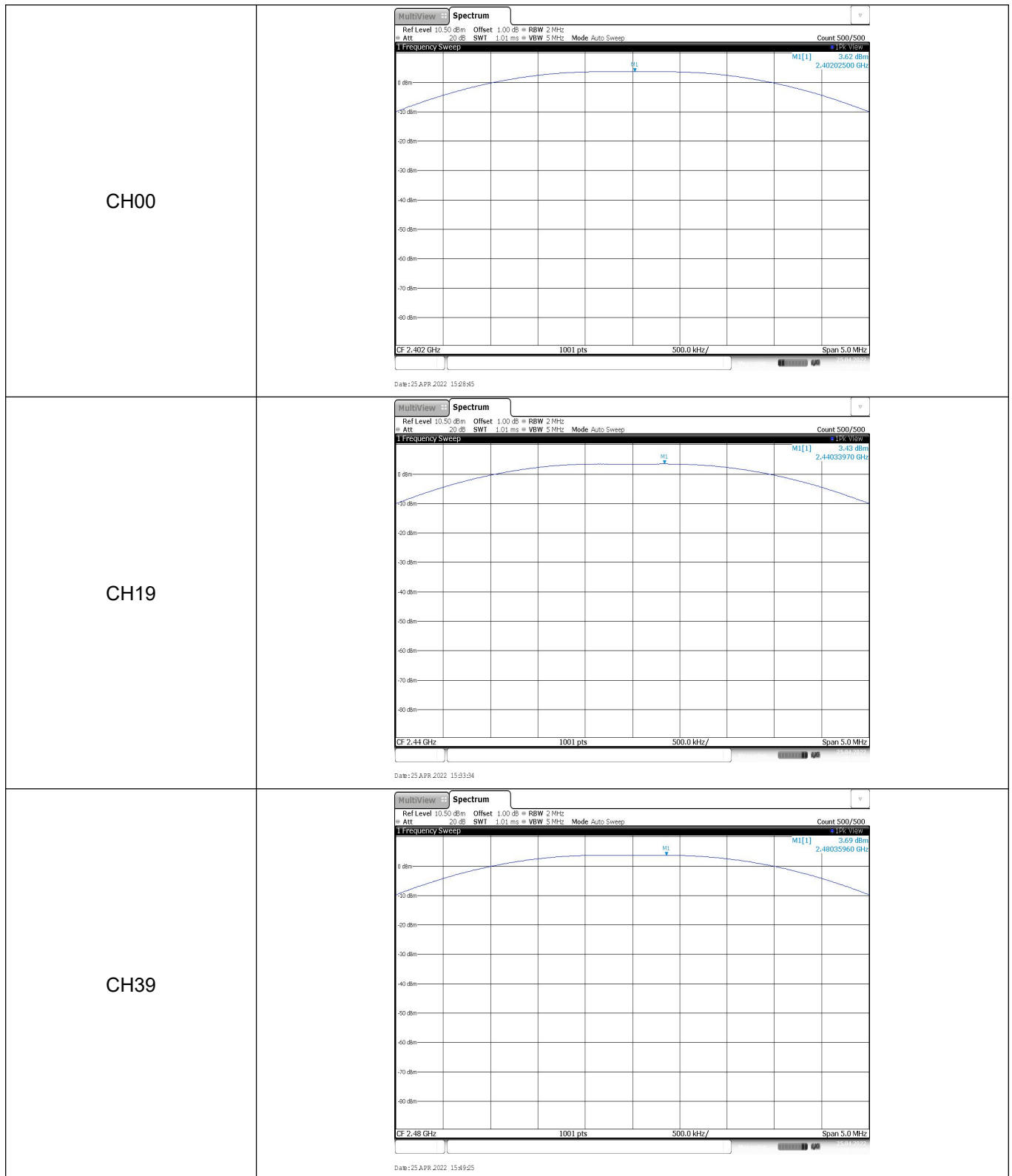
# APPENDIX REPORT

|                 |                 |                     |               |
|-----------------|-----------------|---------------------|---------------|
| Project No.     | SHT2203065706EW | Radio Specification | Bluetooth BLE |
| Test sample No. | YPHT22030657007 | Model No.           | PU100         |
| Start test date | 2022-04-25      | Finish date         | 2022-04-26    |
| Temperature     | 24.4℃           | Humidity            | 40%           |
| Test Engineer   | Xiaoqin Li      | Auditor             | Xiaodong Zhao |

| 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   |

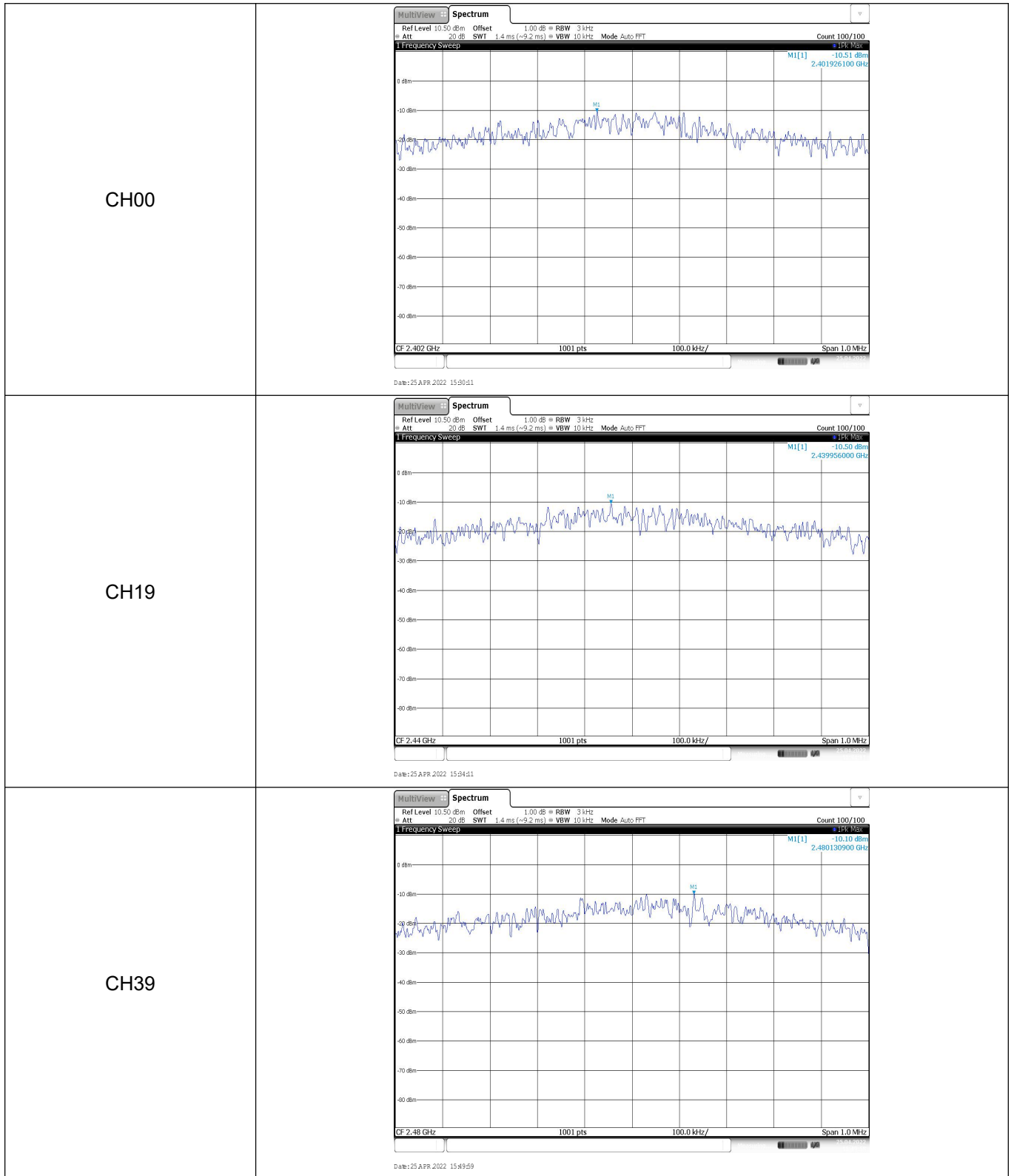
**Appendix A: Peak Output Power**

| Type   | Channel | Peak Output power (dBm) | Average Output power (dBm) | Limit (dBm) | Result |
|--------|---------|-------------------------|----------------------------|-------------|--------|
| BT-BLE | 00      | 3.62                    | 3.61                       | ≤ 30.00     | Pass   |
|        | 19      | 3.43                    | 3.41                       |             |        |
|        | 39      | 3.69                    | 3.67                       |             |        |



**Appendix B: Power Spectral Density**

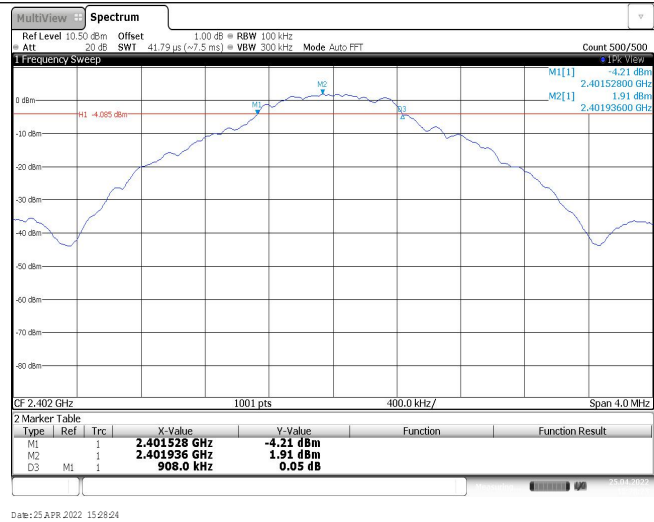
| Type   | Channel | Power Spectral Density(dBm/3KHz) | Limit (dBm/3KHz) | Result |
|--------|---------|----------------------------------|------------------|--------|
| BT-BLE | 00      | -10.51                           | ≤8.00            | Pass   |
|        | 19      | -10.50                           |                  |        |
|        | 39      | -10.10                           |                  |        |



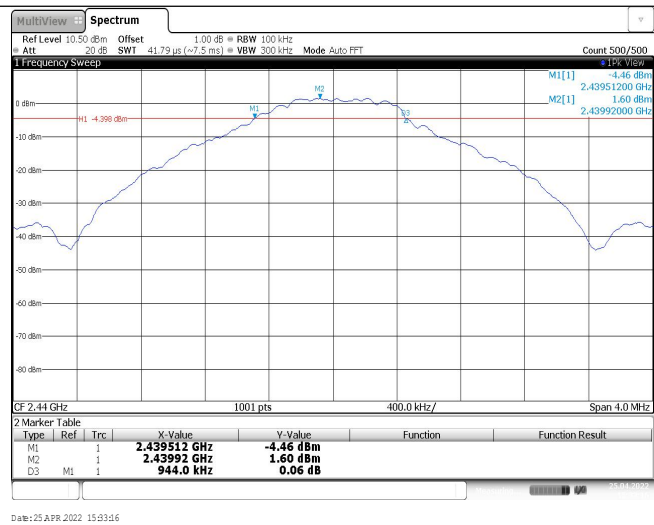
**Appendix C: 6dB bandwidth**

| Type   | Channel | 6dB Bandwidth(kHz) | Limit (kHz) | Result |
|--------|---------|--------------------|-------------|--------|
| BT-BLE | 00      | 908.00             | ≥500        | Pass   |
|        | 19      | 944.00             |             |        |
|        | 39      | 956.00             |             |        |

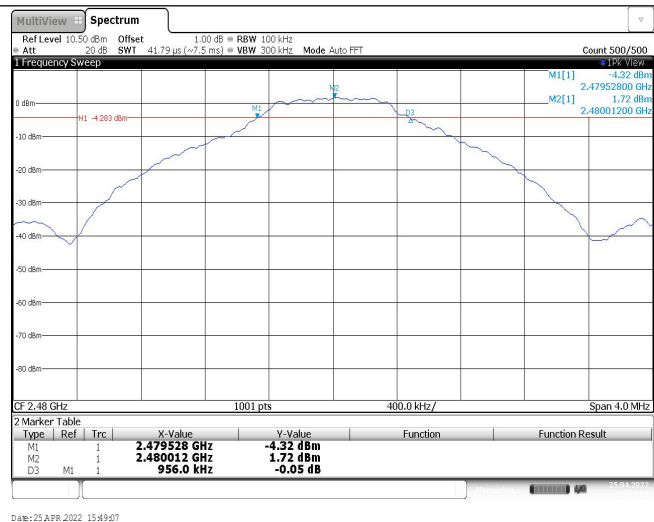
CH00



CH19



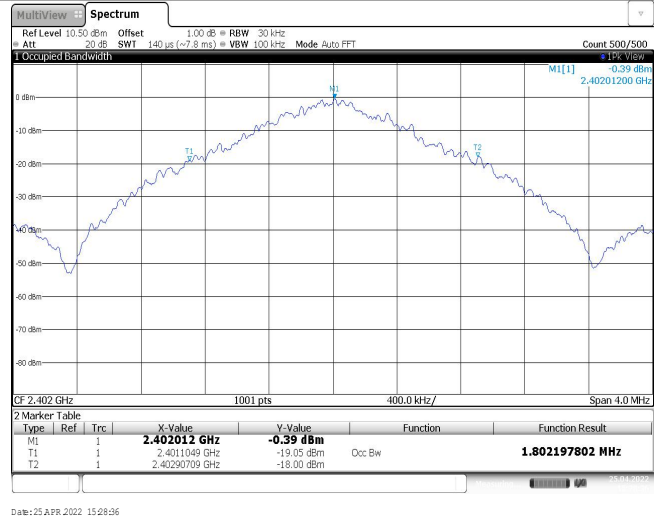
CH39



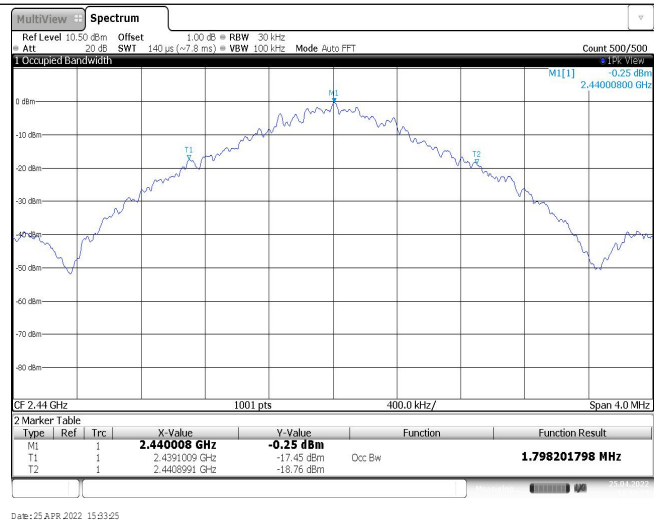
**Appendix D: 99% Occupied Bandwidth**

| Type   | Channel | 99% Occupied Bandwidth(MHz) | Limit (kHz) | Result |
|--------|---------|-----------------------------|-------------|--------|
| BT-BLE | 00      | 1.80                        | -           | Pass   |
|        | 19      | 1.80                        |             |        |
|        | 39      | 1.83                        |             |        |

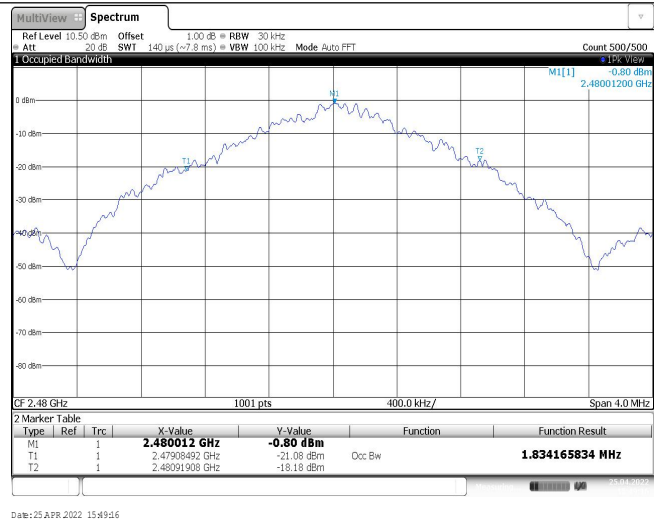
CH00



CH19

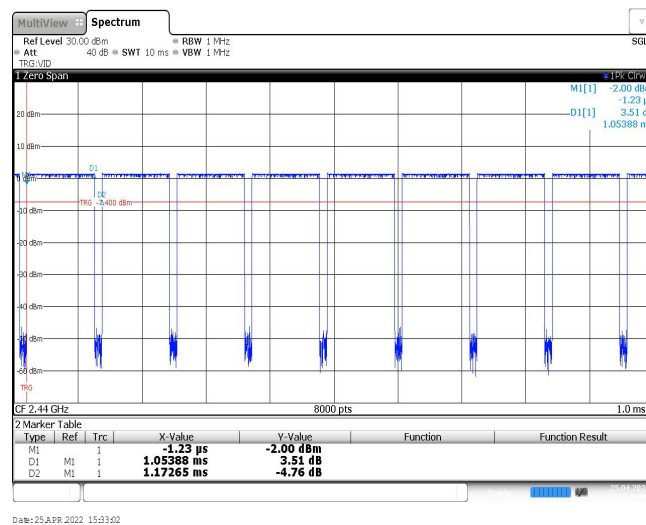


CH39



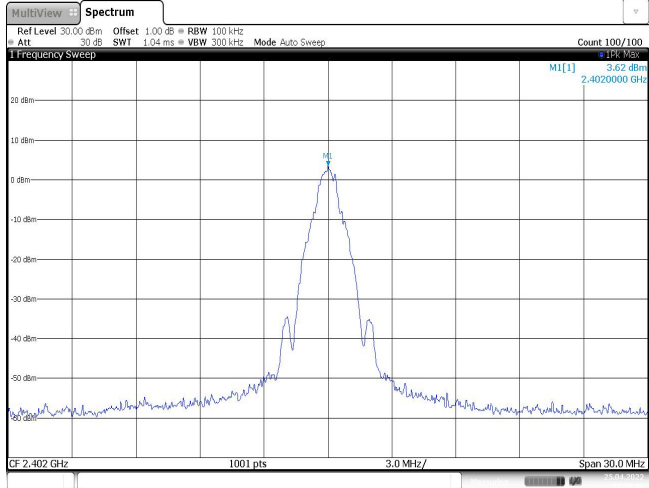
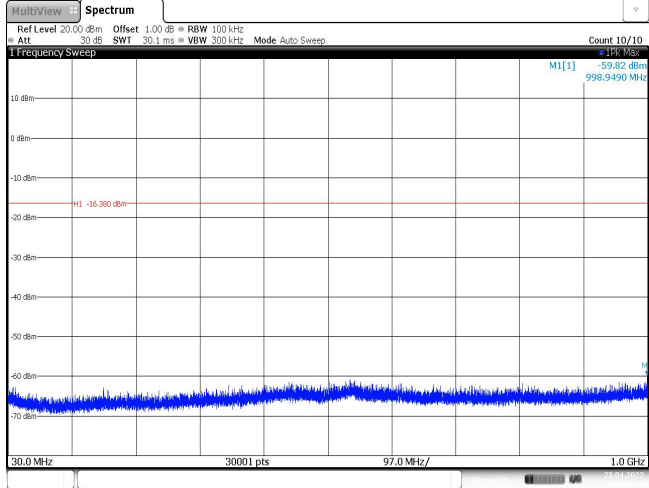
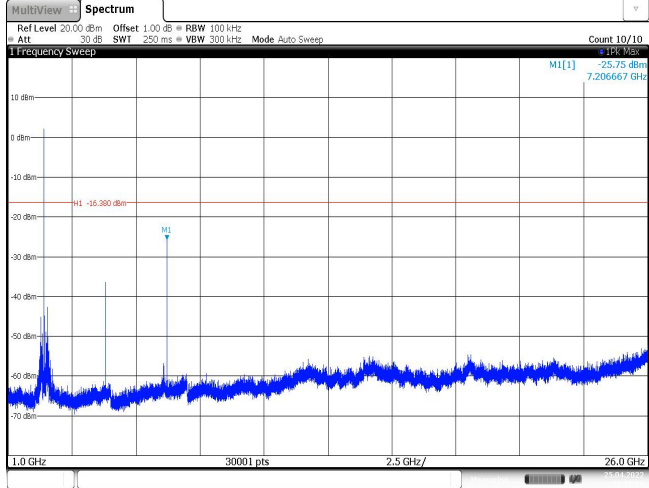
## Appendix E: Duty cycle

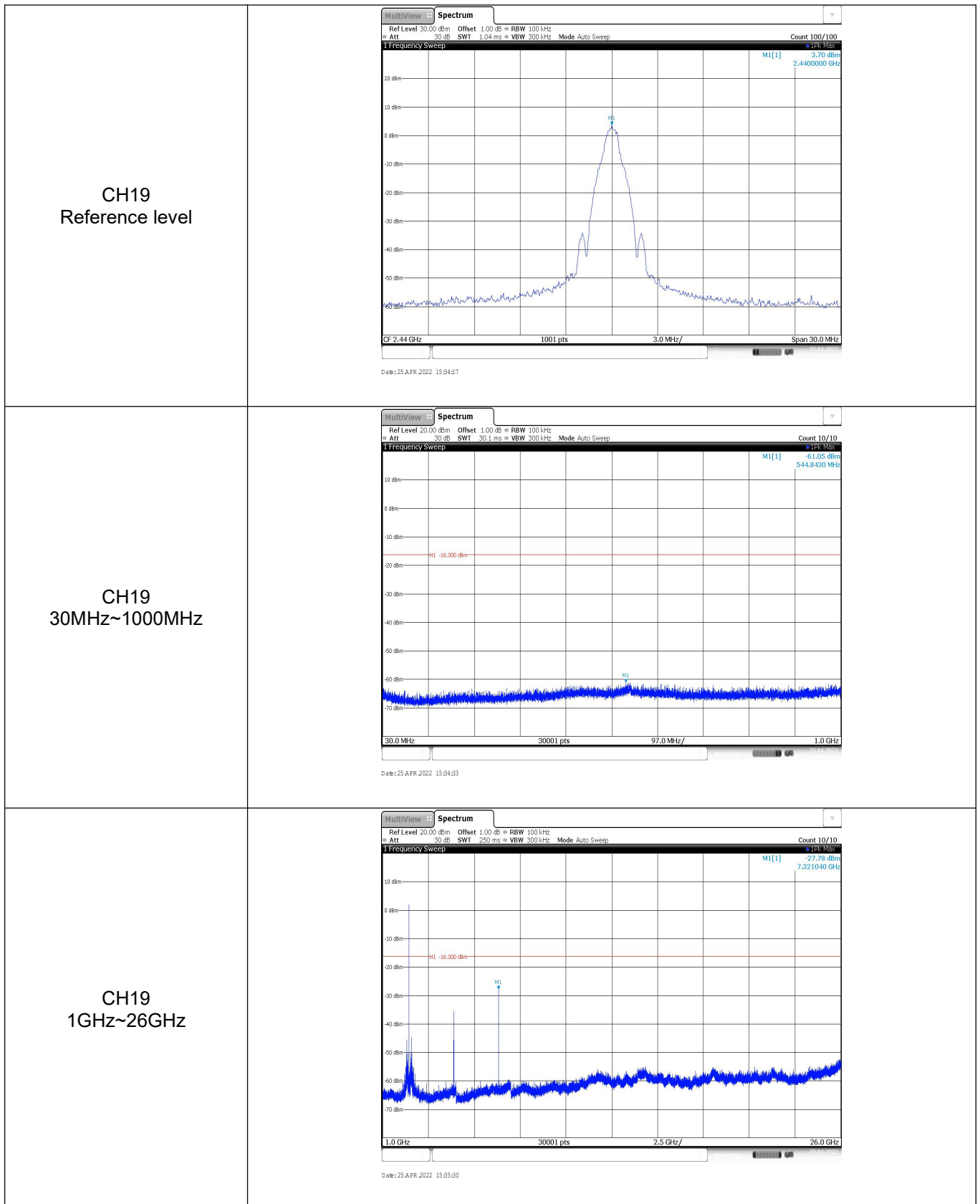
| Test Frequency (MHz) | T <sub>on</sub> time for single burst (ms) | T <sub>period</sub> (ms) | Duty cycle | 1/T <sub>on</sub> time (kHz) |
|----------------------|--------------------------------------------|--------------------------|------------|------------------------------|
| 2440                 | 1.05                                       | 1.17                     | 89.7%      | 0.95                         |

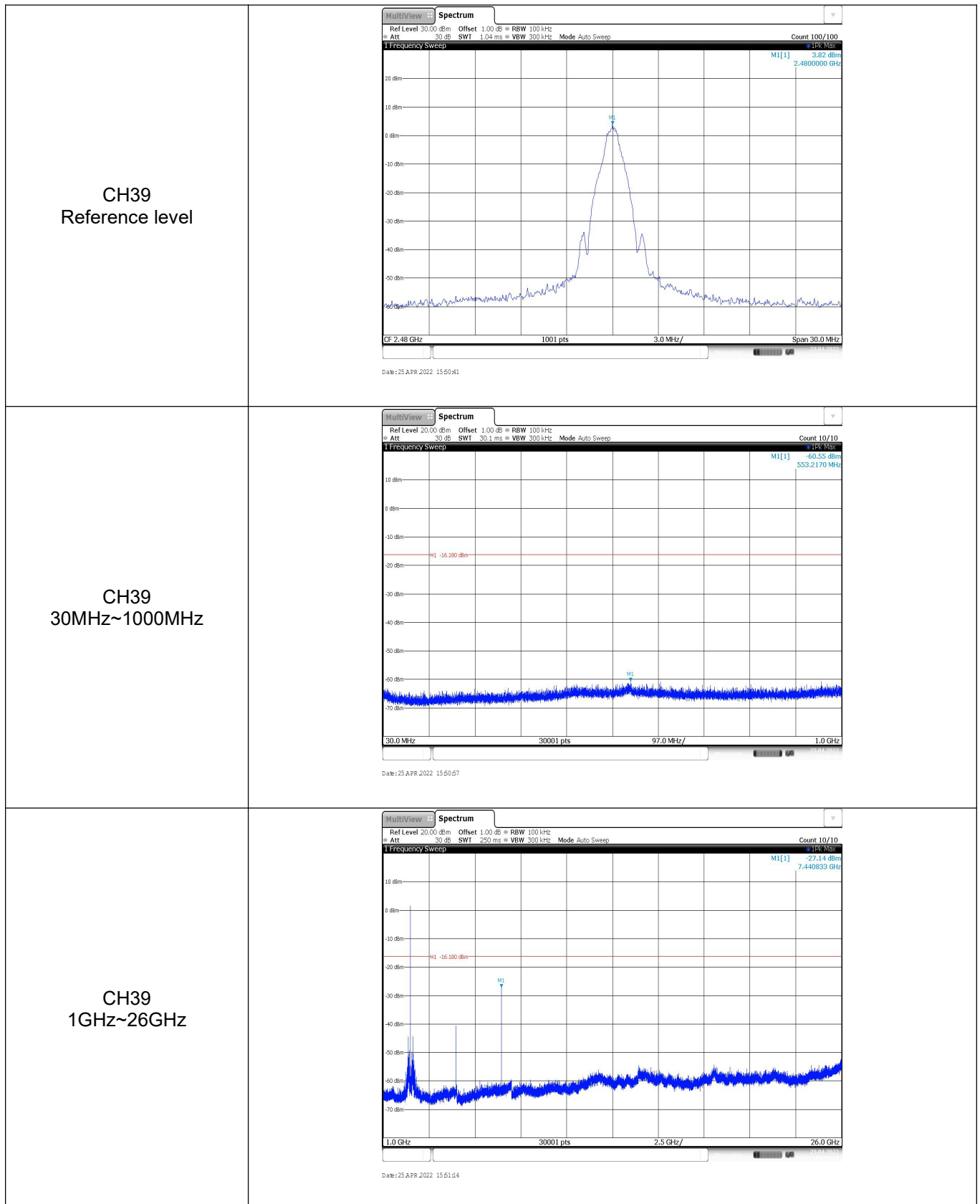


## Appendix F: Band edge and Spurious Emissions (conducted)

| Test Item: | Band edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |              |            |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|----------|-----------------|----------|-----------------|----|---|--|--------------|------------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| CH00       | <div><div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div></div><div><div>1 Frequency Sweep</div><div><div>8 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>-80 dBm</div></div><div><div>2.31 GHz</div><div>1001 pts</div><div>9.5 MHz/</div><div>2.405 GHz</div></div></div><div><div>M1 [1] -35.50 dBm</div><div>M2 [1] -34.17 dBm</div><div>M3 [1] -63.38 dBm</div><div>M4 [1] -35.55 dBm</div></div></div><table><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>2.40201 GHz</td><td>-35.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-34.17 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.38 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.38 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-35.55 dBm</td><td></td><td></td></tr></tbody></table><div>Date: 25 APR 2022 15:50:27</div></div> | Type | Ref          | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.40201 GHz  | -35.50 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -34.17 dBm |  |  | M3 | 1 |  | 2.39 GHz | -63.38 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -63.38 dBm |  |  | M5 | 1 |  | 2.399965 GHz | -35.55 dBm |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Trc  | X-Value      | Y-Value    | Function | Function Result |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.40201 GHz  | -35.50 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.4 GHz      | -34.17 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.39 GHz     | -63.38 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.31 GHz     | -63.38 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.399965 GHz | -35.55 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH39       | <div><div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 100/100</div></div><div><div>1 Frequency Sweep</div><div><div>8 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>-80 dBm</div></div><div><div>2.478 GHz</div><div>1001 pts</div><div>2.2 MHz/</div><div>2.5 GHz</div></div></div><div><div>M1 [1] -35.57 dBm</div><div>M2 [1] -53.74 dBm</div><div>M3 [1] -67.02 dBm</div><div>M4 [1] -52.05 dBm</div></div></div><table><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>2.479989 GHz</td><td>-35.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.74 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-67.02 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483676 GHz</td><td>-52.05 dBm</td><td></td><td></td></tr></tbody></table><div>Date: 25 APR 2022 15:50:28</div></div>                                                                                            | Type | Ref          | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.479989 GHz | -35.57 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -53.74 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -67.02 dBm |  |  | M4 | 1 |  | 2.483676 GHz | -52.05 dBm |  |  |    |   |  |              |            |  |  |
| Type       | Ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Trc  | X-Value      | Y-Value    | Function | Function Result |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.479989 GHz | -35.57 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.4835 GHz   | -53.74 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.5 GHz      | -67.02 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2.483676 GHz | -52.05 dBm |          |                 |          |                 |    |   |  |              |            |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

| Test Item:              | SE                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CH00<br>Reference level |  <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] 3.62 dBm<br/>2.4020000 GHz<br/>CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date: 25 APR 2022 15:30:37</p> |
| CH00<br>30MHz~1000MHz   |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -59.82 dBm<br/>998.9490 MHz<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date: 25 APR 2022 15:30:53</p>         |
| CH00<br>1GHz~26GHz      |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -59.82 dBm<br/>7.206667 GHz<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date: 25 APR 2022 15:31:19</p>          |





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