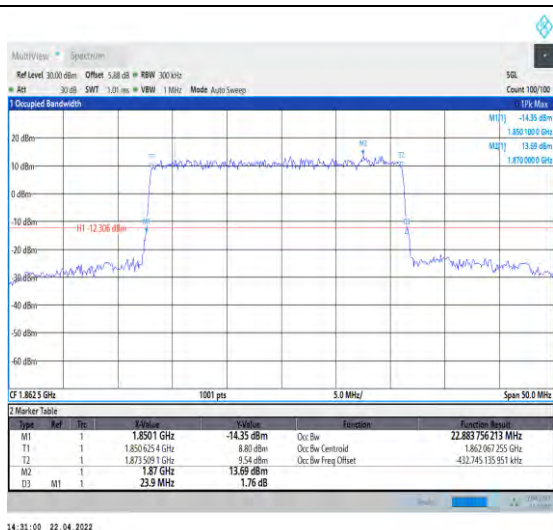


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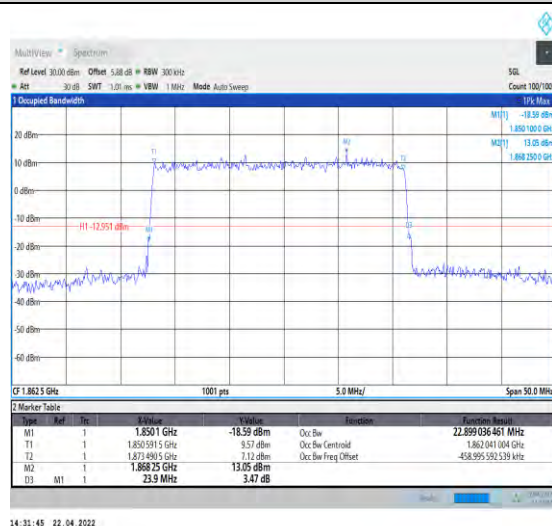
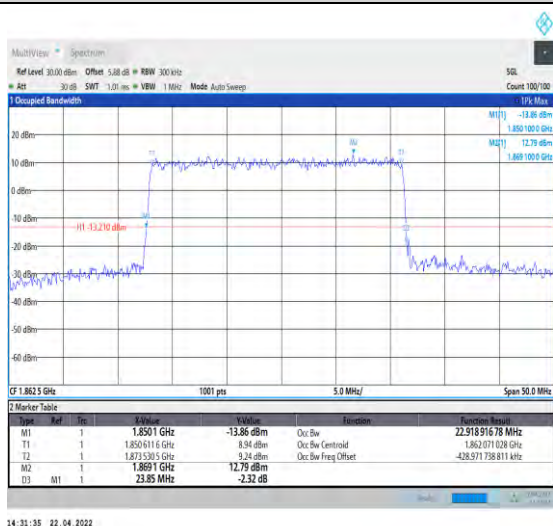
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1-N25--15-25-L-1-DFT-QPSK-Outet_Full-128@0-Ant
0-22.884-23.900-≤25-PASS

1-N25--15-25-L-2-DFT-PI2BPSK-Outet_Full-128@0-Ant
0-22.875-23.900-≤25-PASS



1-N25--15-25-L-3-DFT-16QAM-Outet_Full-128@0-Ant
0-22.919-23.850-≤25-PASS

1-N25--15-25-L-4-DFT-64QAM-Outet_Full-128@0-Ant
0-22.899-23.900-≤25-PASS



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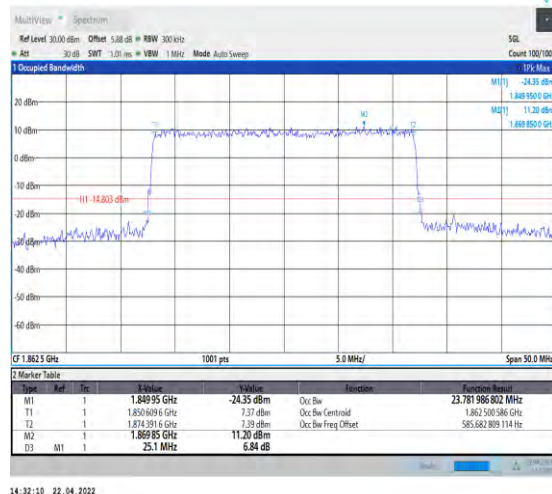
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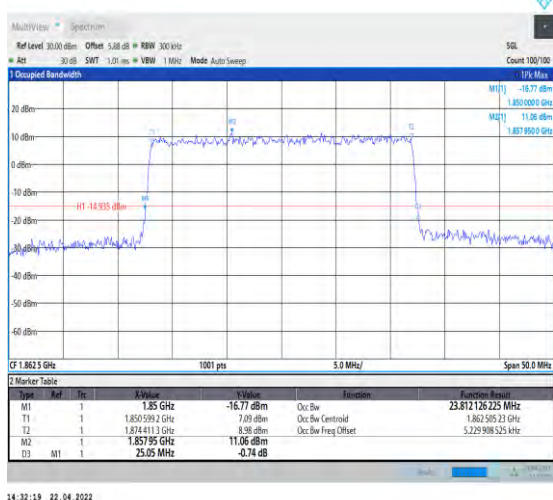
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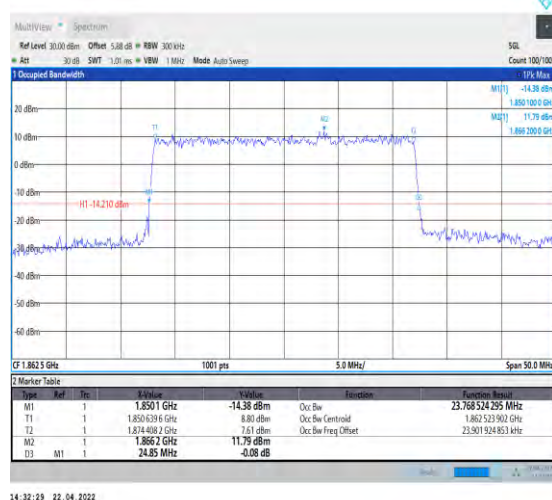
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14:32:19 22.04.2022

1-N25--15-25-L-7-CP-16QAM-Outer_Full-133@0-Ant0-20.812-25.050-<25-PASS



14:32:29 22.04.2022

1-N25--15-25-L-8-CP-64QAM-Outer_Full-133@0-Ant0-23.769-24.850-<25-PASS



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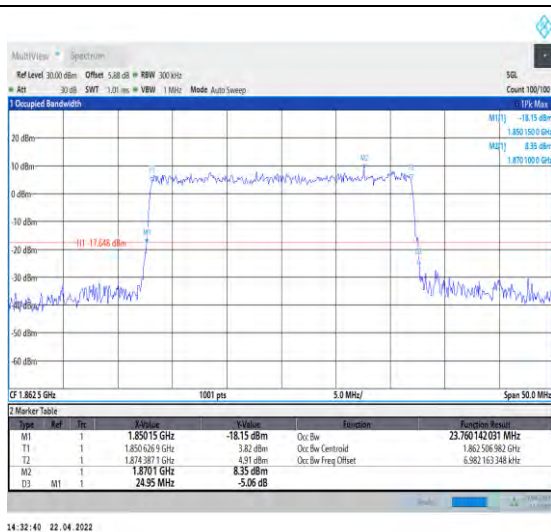
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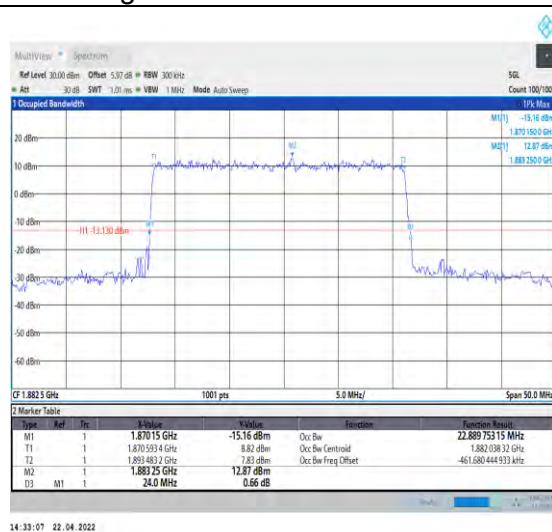
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nt0-23.76-24.950-≤25-PASS



14:33:07 22.04.2022

1-N25--15-25-M-1-DFT-QPSK-Outer_Full-128@0-An
t0-22.89-24.000-≤25-PASS



14:33:24 22.04.2022

1-N25--15-25-M-2-DFT-PI2BPSK-Outer_Full-128@0
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14:36:01 22.04.2022

1-N25--15-25-M-3-DFT-16QAM-Outer_Full-128@0-A
nt0-22.883-24.000-≤25-PASS



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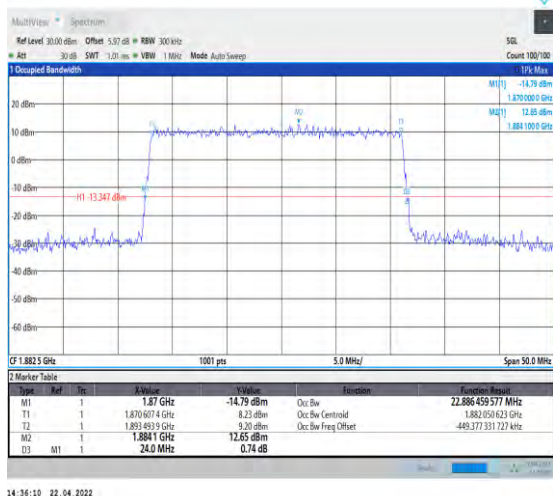
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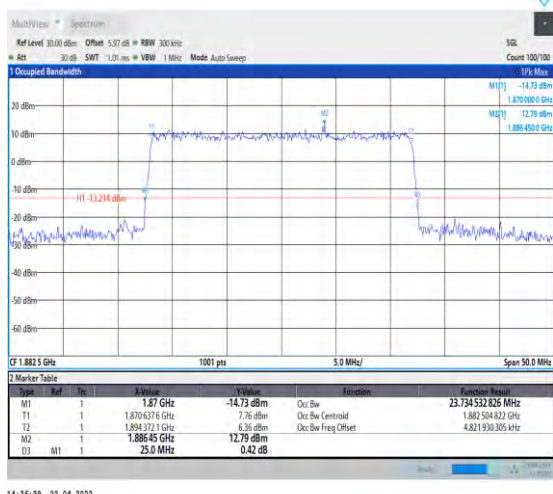
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1-N25--15-25-M-5-DFT-256QAM-Outer_Full-128@0-A
Ant0-22.885-23.850-≤25-PASS



1-N25--15-25-M-6-CP-QPSK-Outer_Full-133@0-Ant
0-23.735-25.000-≤25-PASS



1-N25--15-25-M-7-CP-16QAM-Outer_Full-133@0-A
nt0-23.768-24.850-≤25-PASS



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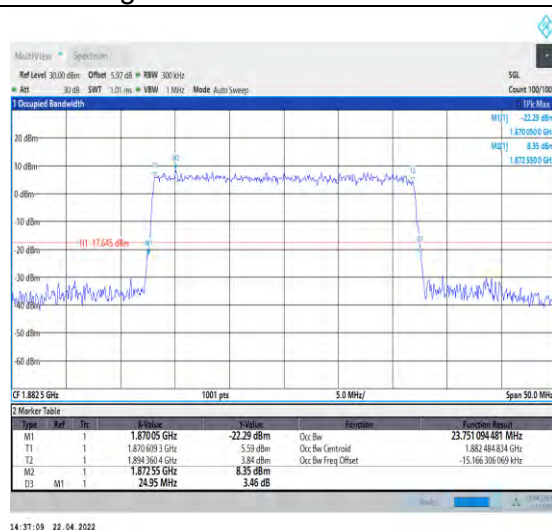
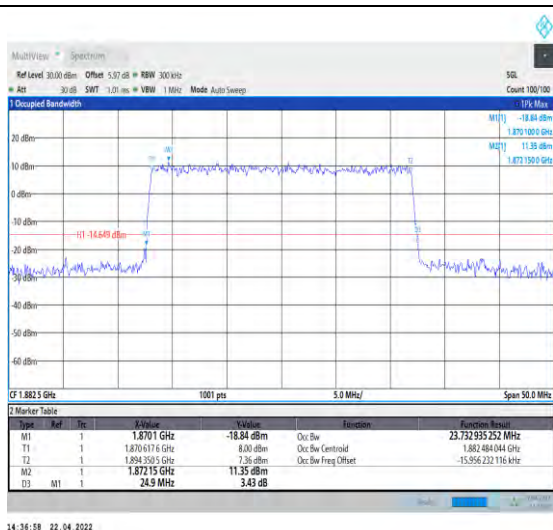
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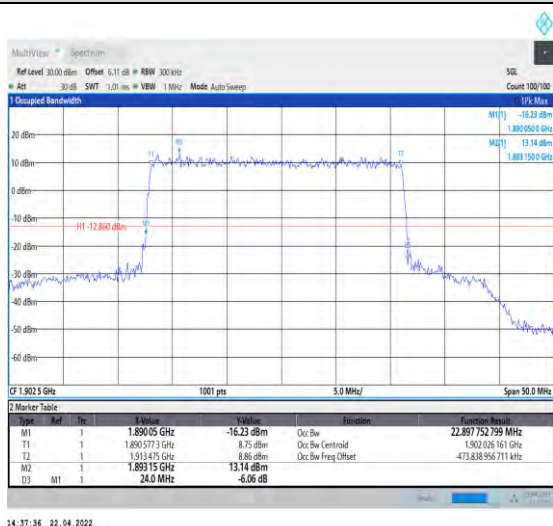
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1-N25--15-25-M-9-CP-256QAM-Outer_Full-133@0-A
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1-N25--15-25-H-1-DFT-QPSK-Outer_Full-128@0-A
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1-N25--15-25-H-2-DFT-PI2BPSK-Outer_Full-128@0-A
Ant0-22.891-23.900-<25-PASS



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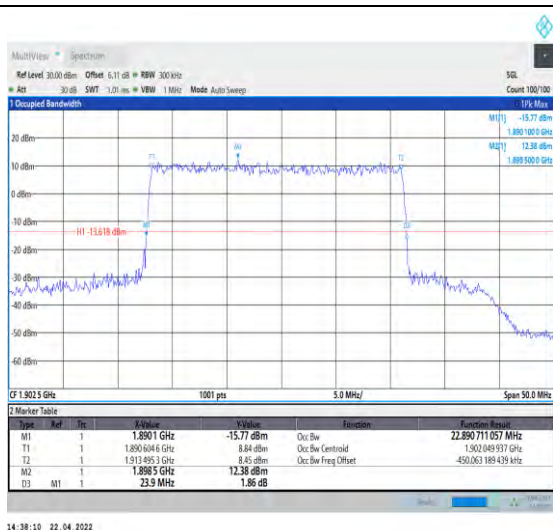
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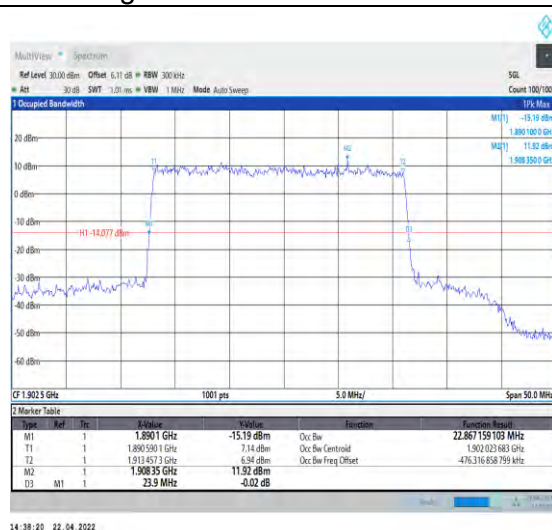
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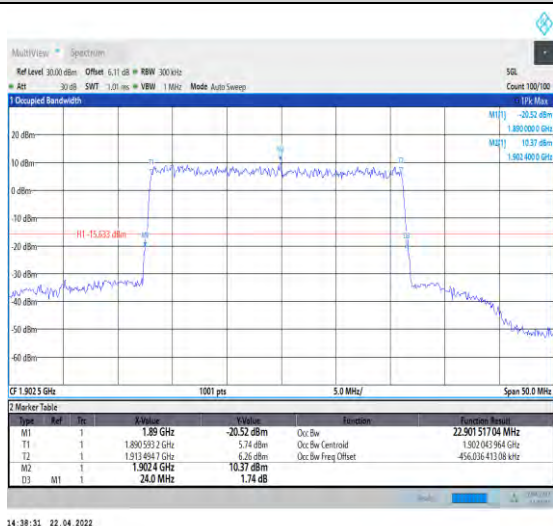
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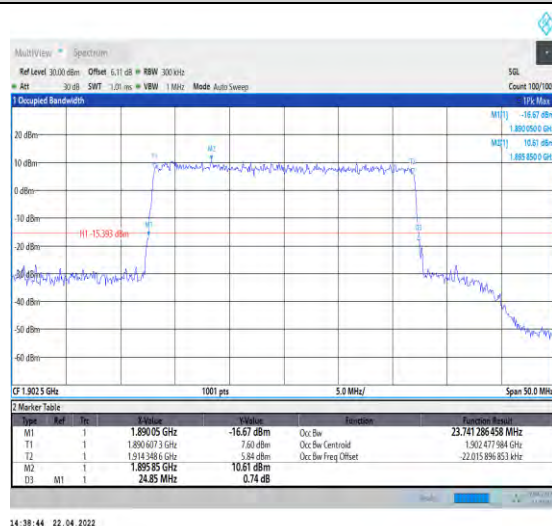
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nt0-22.867-23.900-<25-PASS



1-N25--15-25-H-5-DFT-256QAM-Outer_Full-128@0-A
Ant0-22.902-24.000-<25-PASS



1-N25--15-25-H-6-CP-QPSK-Outer_Full-133@0-Ant
0-23.741-24.850-<25-PASS



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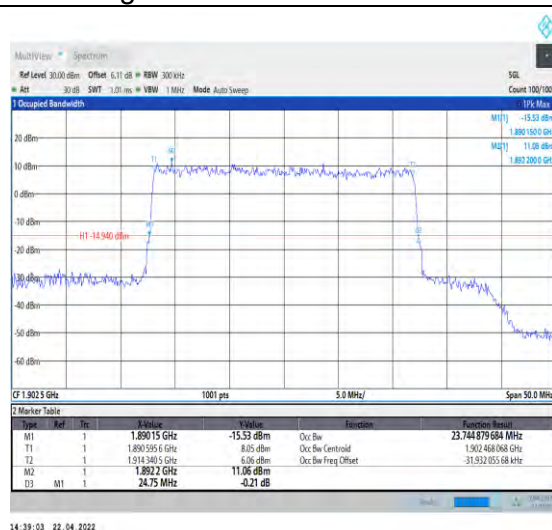
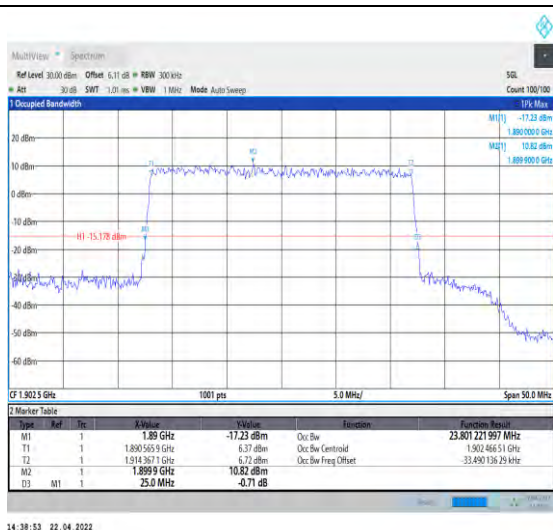
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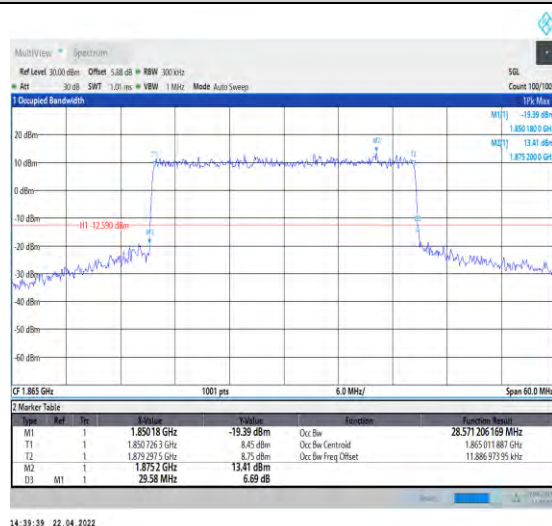
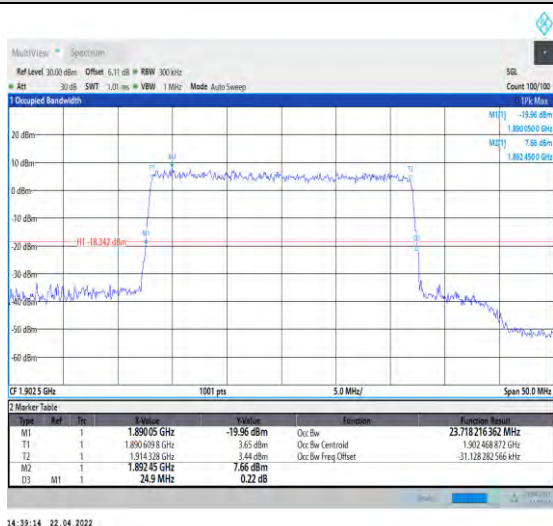
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1-N25--15-25-H-8-CP-64QAM-Outer_Full-133@0-An
t0-23.745-24.750-≤25-PASS



1-N25--15-25-H-9-CP-256QAM-Outer_Full-133@0-A
nt0-23.718-24.900-≤25-PASS

1-N25--15-30-L-1-DFT-QPSK-Outer_Full-160@0-Ant
0-28.571-29.580-≤30-PASS



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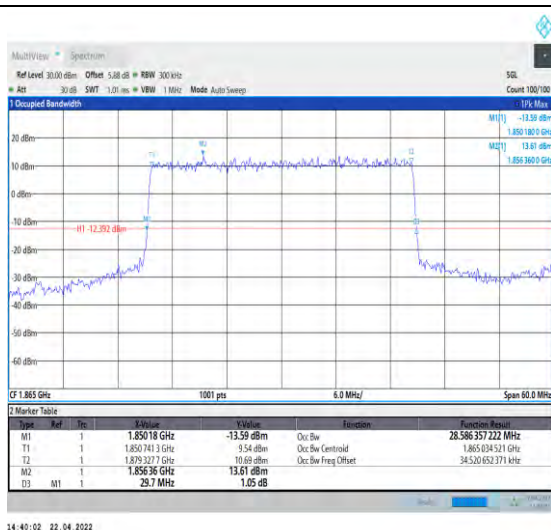
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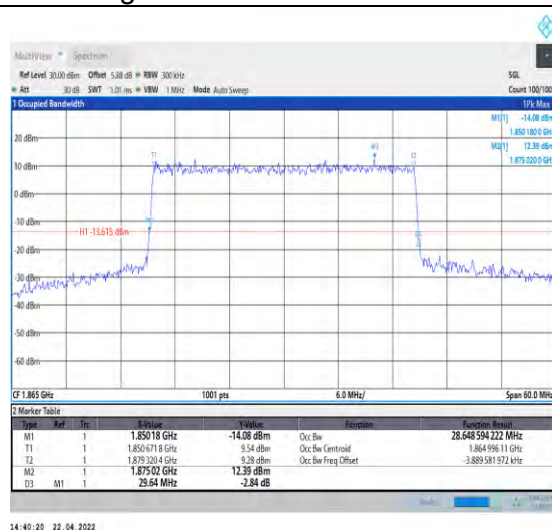
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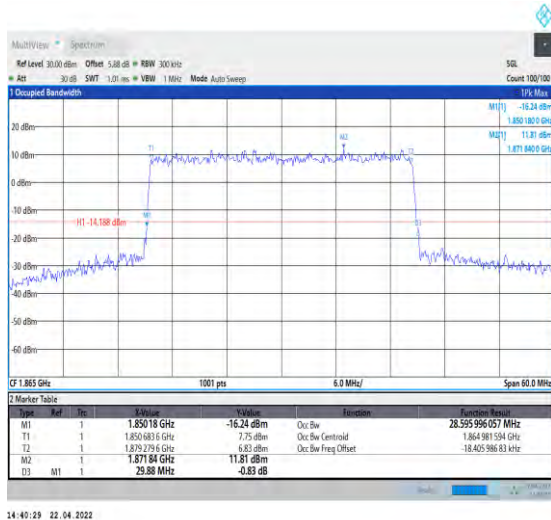
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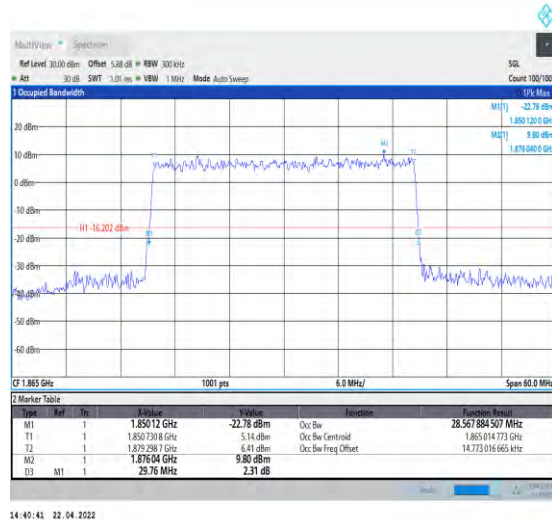
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14-40:29 22.04.2022

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14-40:41 22.04.2022

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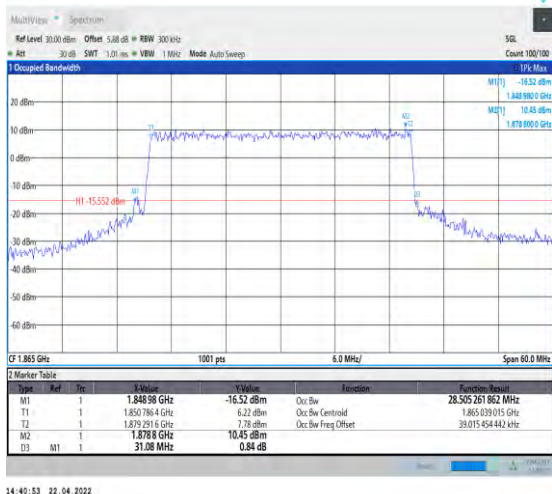
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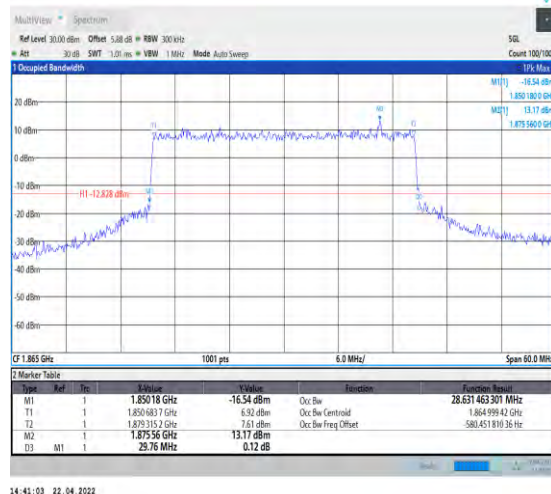
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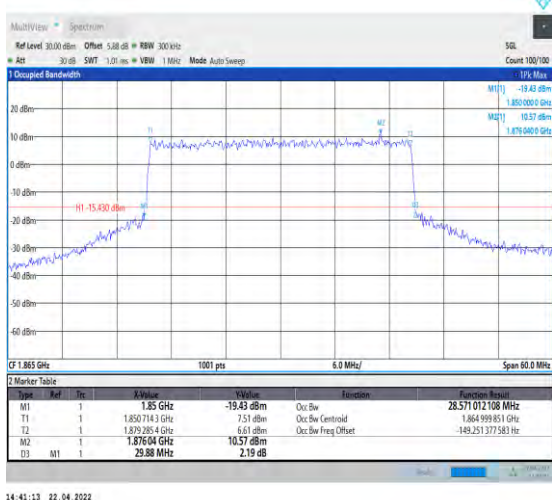
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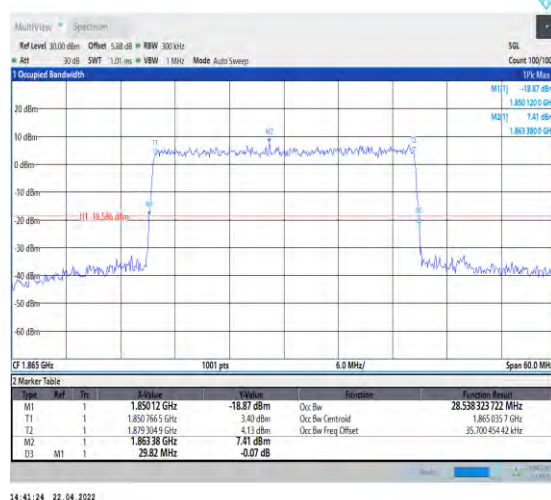
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1-N25--15-30-L-8-CP-64QAM-Outter_Full-160@0-Ant0
-28.571-29.880-≤30-PASS



14:41:24 22.04.2022

1-N25--15-30-L-9-CP-256QAM-Outter_Full-160@0-Ant0
-28.538-29.820-≤30-PASS



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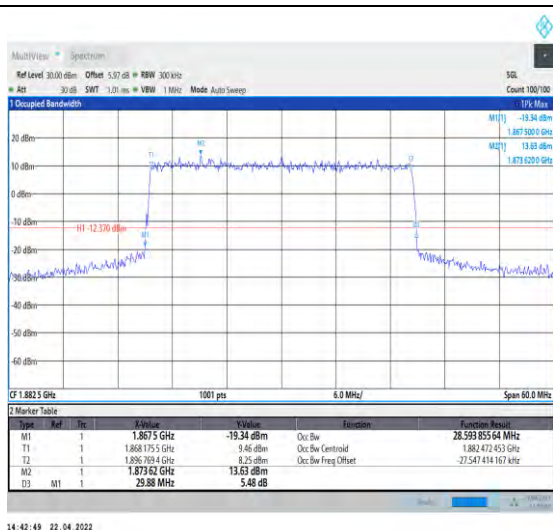
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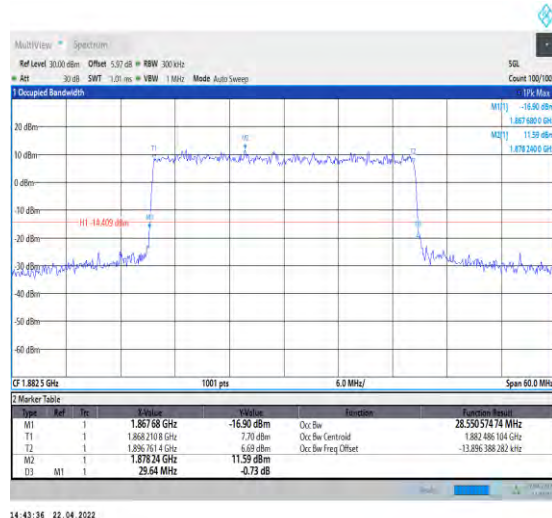
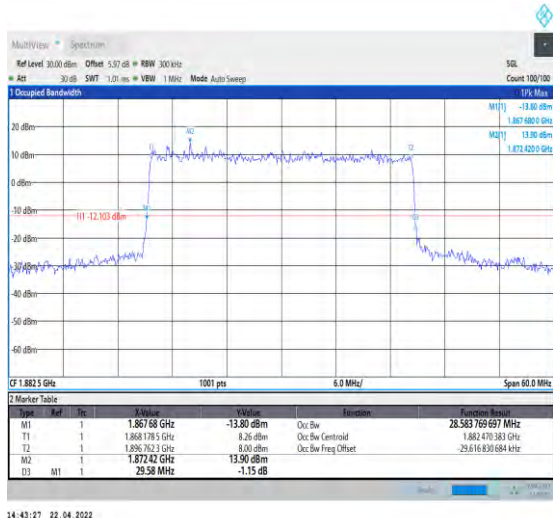
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1-N25--15-30-M-1-DFT-QPSK-Outer_Full-160@0-An
t0-28.594-29.880-<30-PASS

1-N25--15-30-M-2-DFT-PI2BPSK-Outer_Full-160@0
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1-N25--15-30-M-3-DFT-16QAM-Outer_Full-160@0-A
nt0-28.584-29.580-<30-PASS

1-N25--15-30-M-4-DFT-64QAM-Outer_Full-160@0-A
nt0-28.551-29.640-<30-PASS



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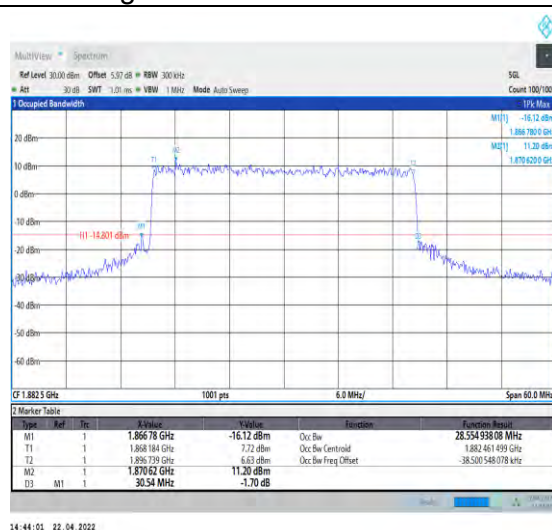
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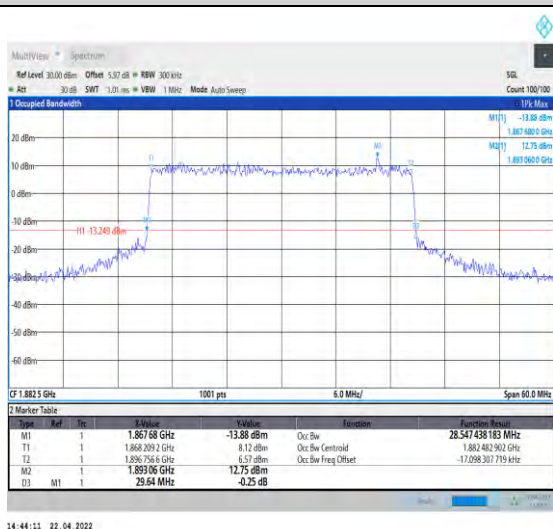
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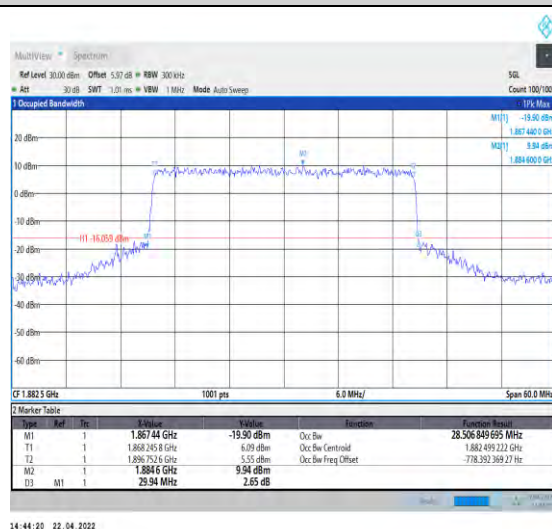
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14-44:11 22.04.2022

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14-44:20 22.04.2022

1-N25--15-30-M-8-CP-64QAM-Outer_Full-160@0-Ant0-28.507-29.940-≤30-PASS



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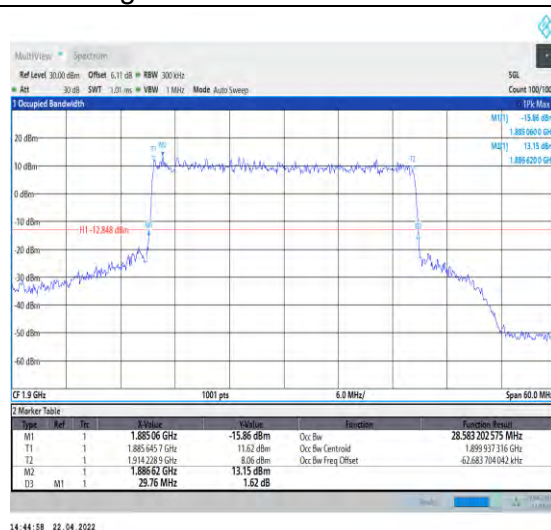
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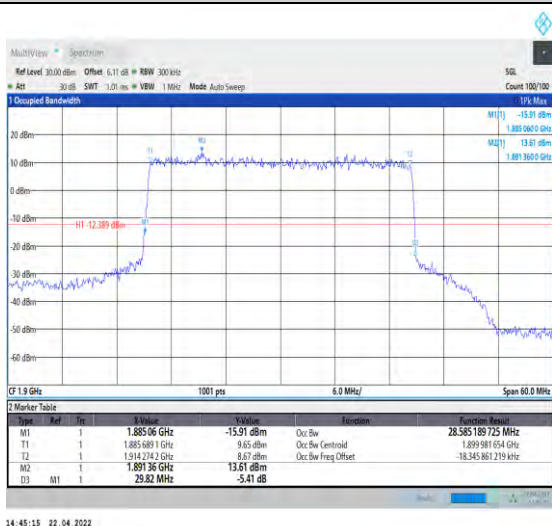
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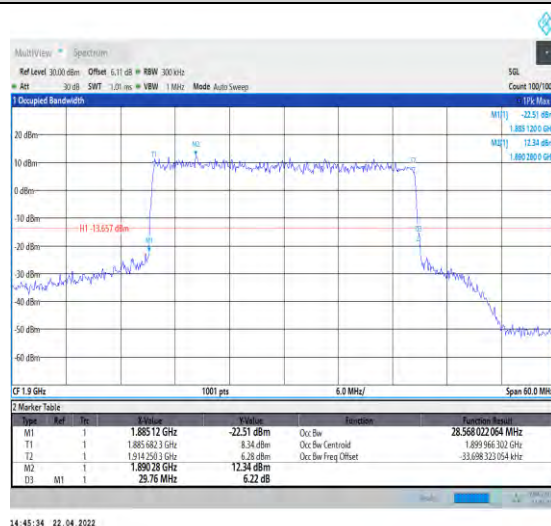
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14:45:15 22.04.2022



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1-N25--15-30-H-3-DFT-16QAM-Outer_Full-160@0-A nt0-28.568-29.760-≤30-PASS



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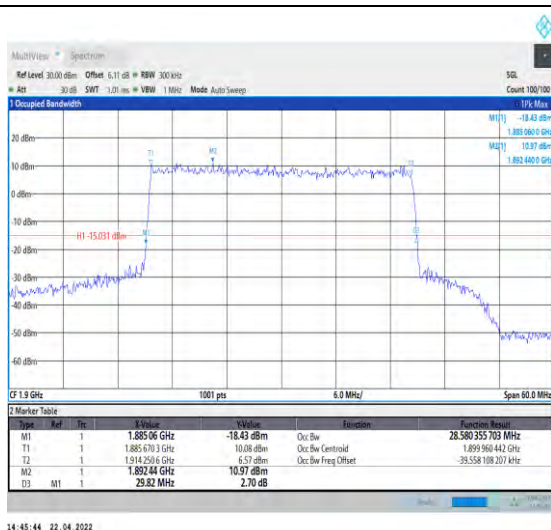
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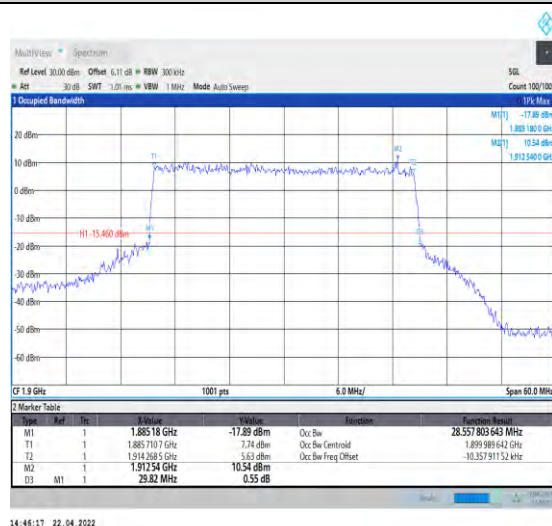
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14:46:17 22.04.2022

1-N25--15-30-H-7-CP-16QAM-Outer_Full-160@0-Ant
t0-28.558-29.820-≤30-PASS



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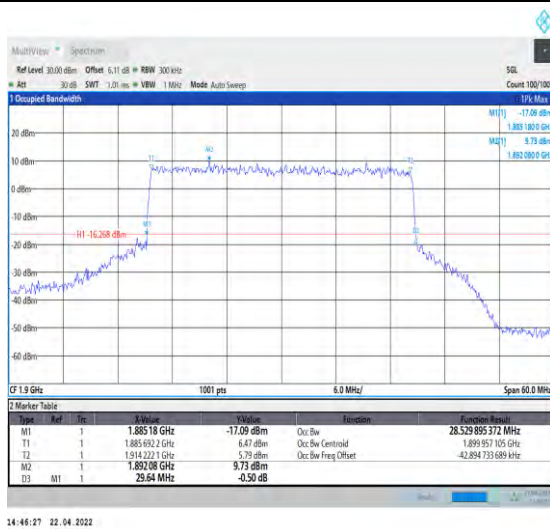
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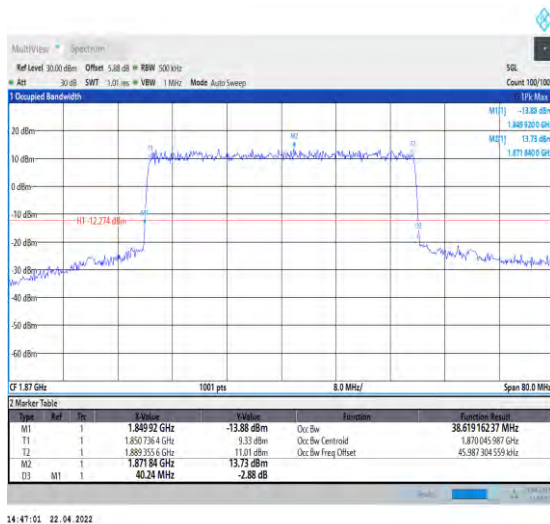
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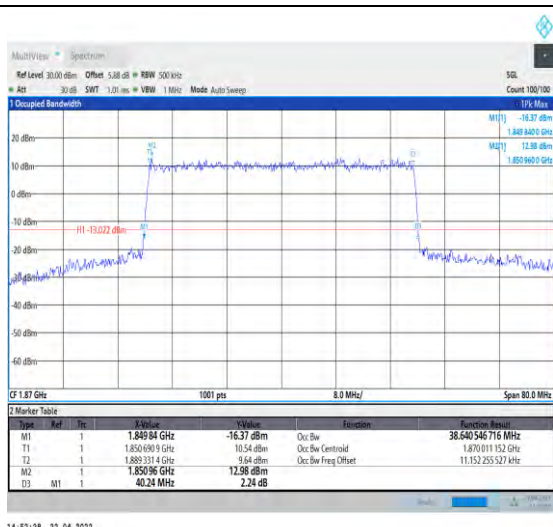
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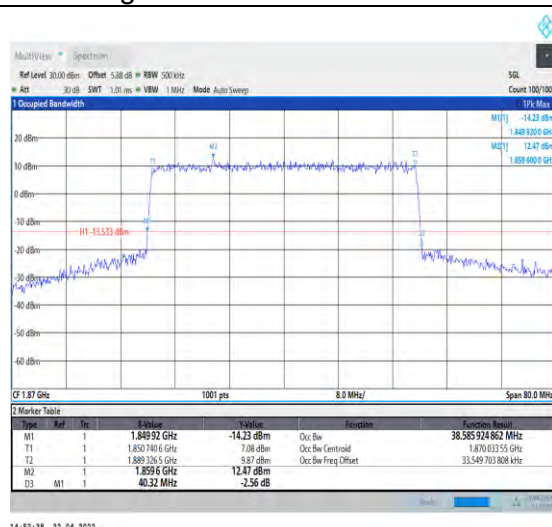
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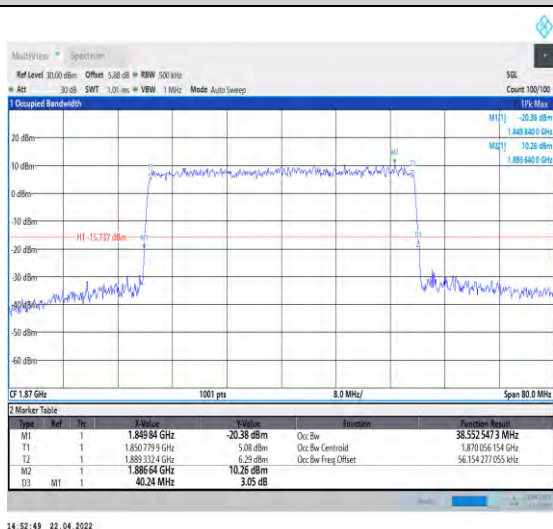
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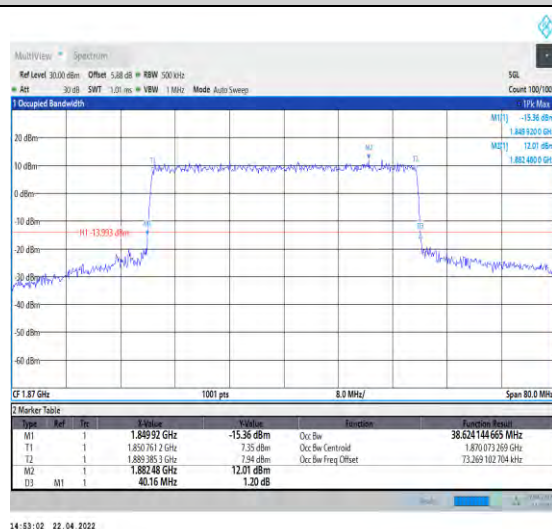
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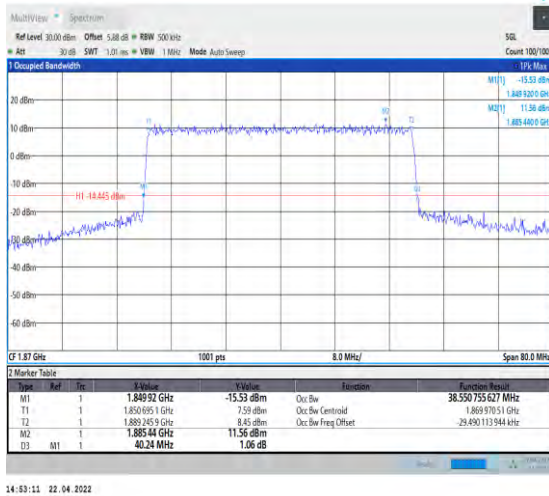
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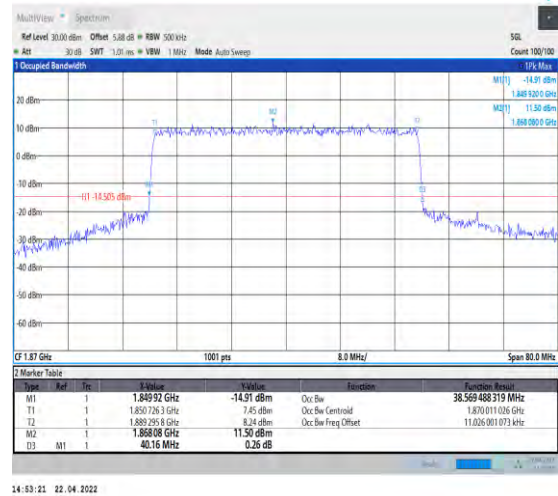
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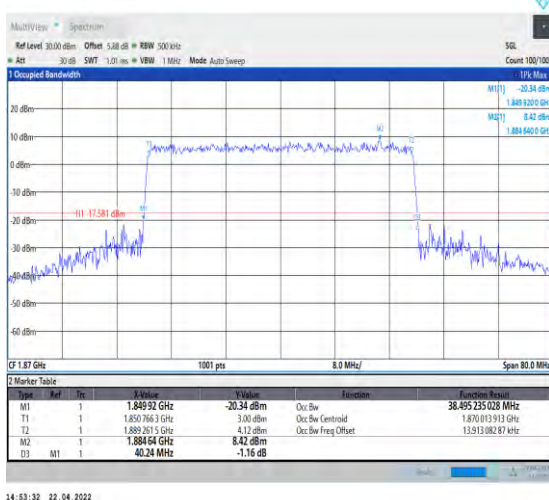
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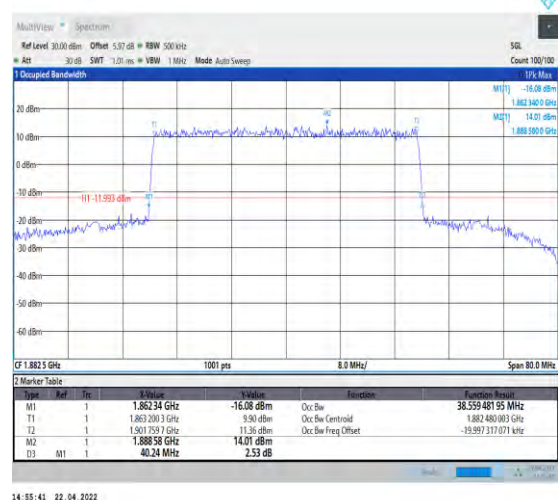
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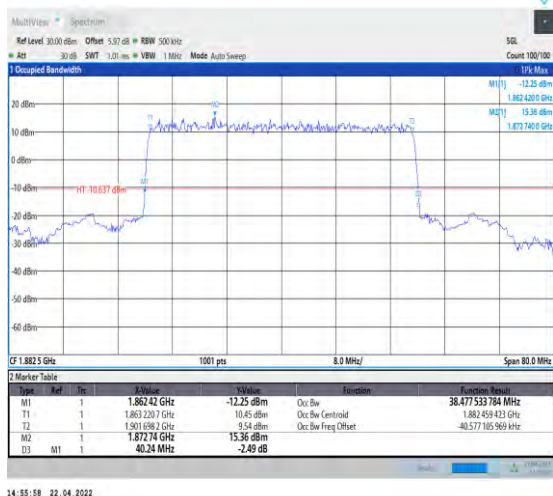
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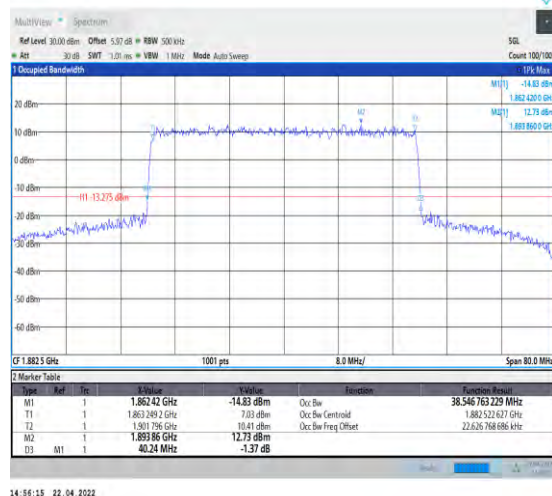
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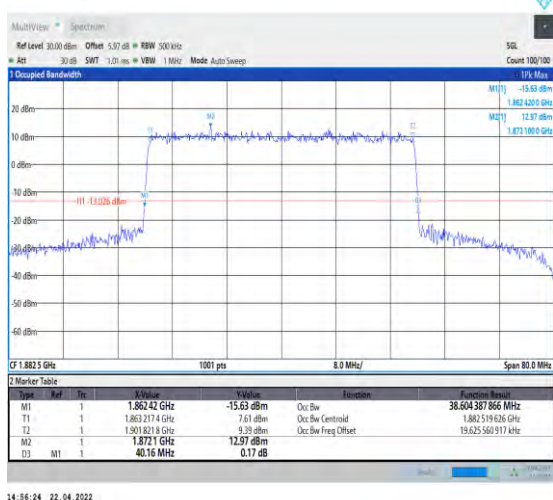
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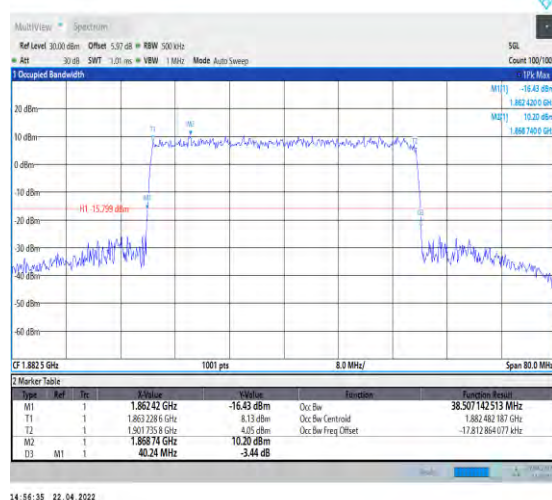
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14:56:35 22.04.2022

1-N25--15-40-M-5-DFT-256QAM-Outer_Full-216@0-A
Ant0-38.507-40.240-≤40-PASS



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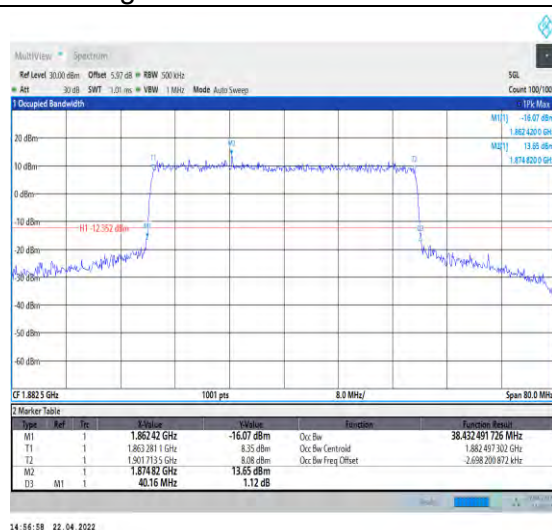
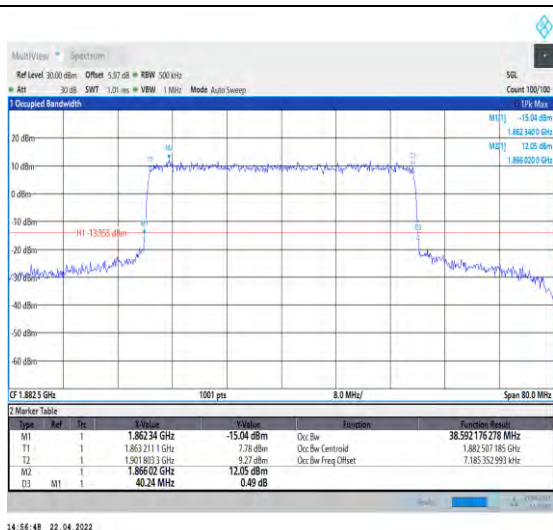
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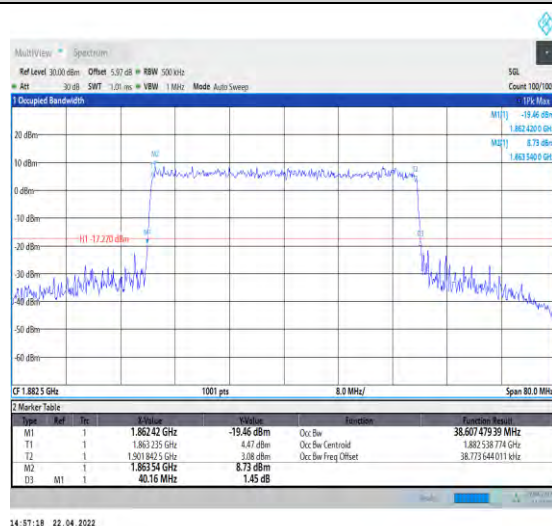
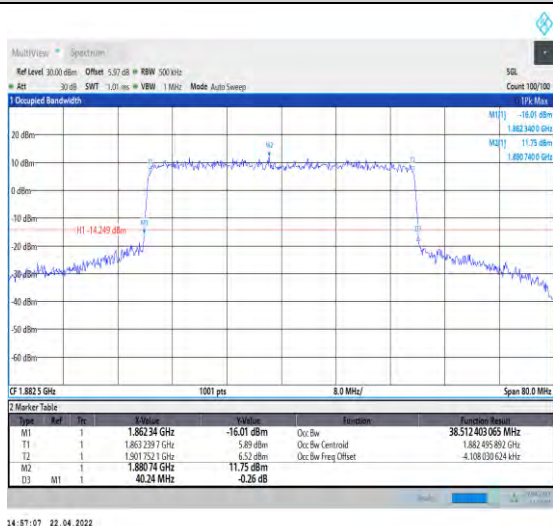
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1-N25--15-40-M-7-CP-16QAM-Outer_Full-216@0-A
nt0-38.432-40.160-≤40-PASS



1-N25--15-40-M-8-CP-64QAM-Outer_Full-216@0-A
nt0-38.512-40.240-≤40-PASS

1-N25--15-40-M-9-CP-256QAM-Outer_Full-216@0-A
Ant0-38.607-40.160-≤40-PASS



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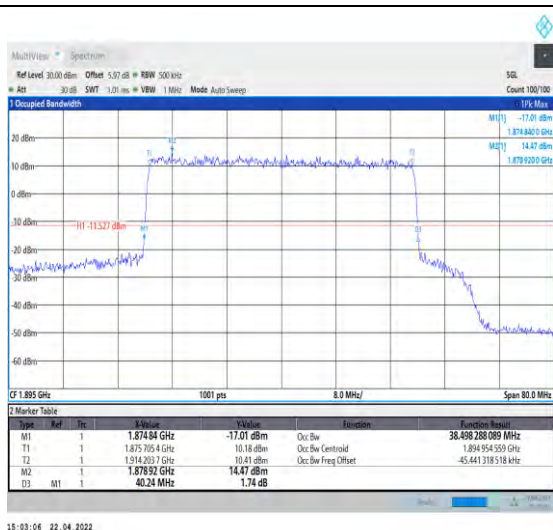
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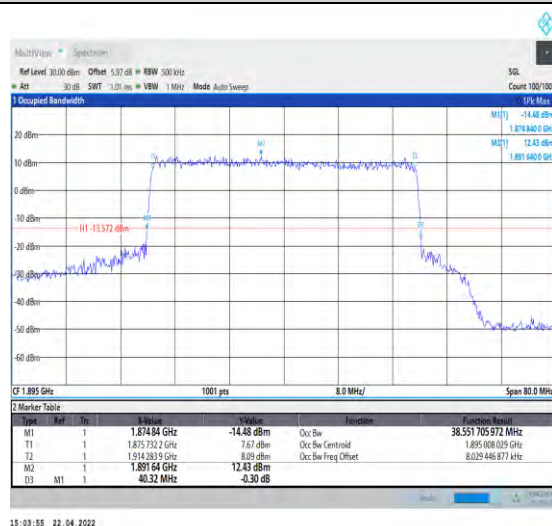
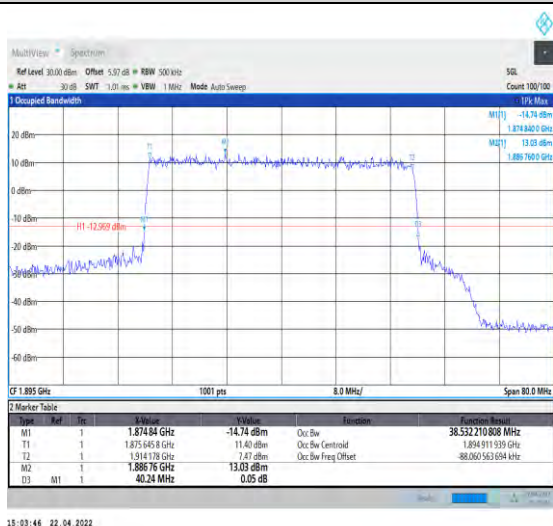
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nt0-38.532-40.240-<40-PASS

1-N25--15-40-H-4-DFT-64QAM-Outer_Full-216@0-A
nt0-38.552-40.320-<40-PASS



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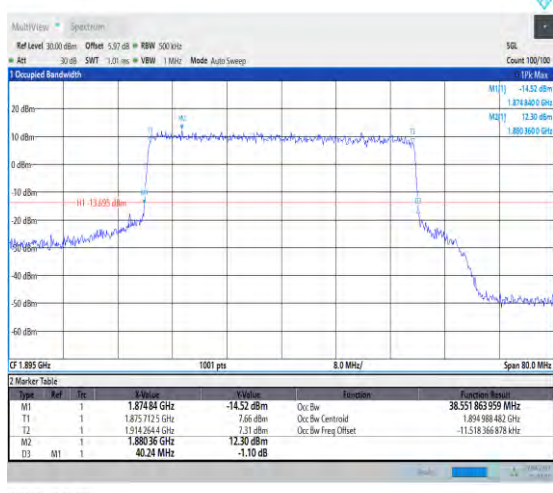
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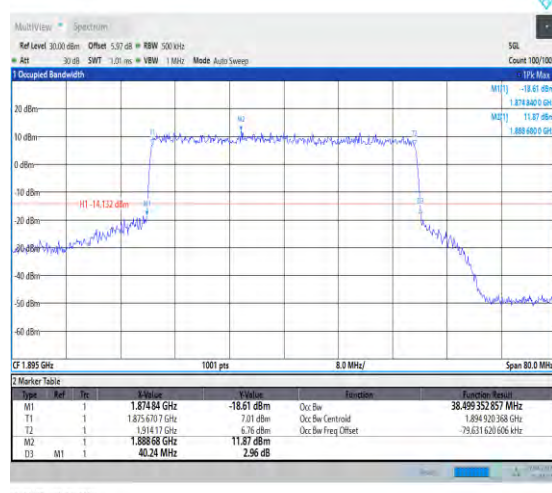
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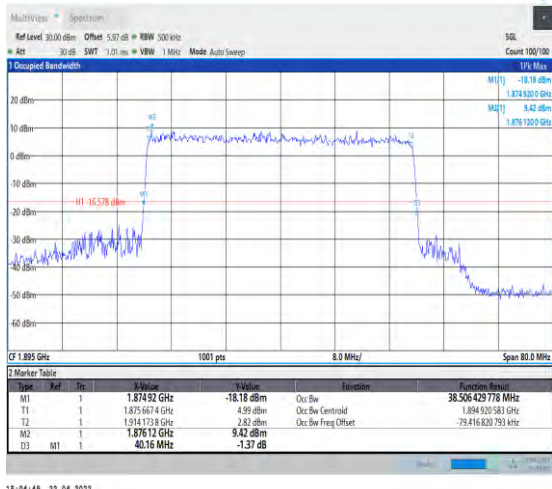
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1-N25--15-40-H-9-CP-256QAM-Outer_Full-216@0-A
nt0-38.506-40.160-≤40-PASS



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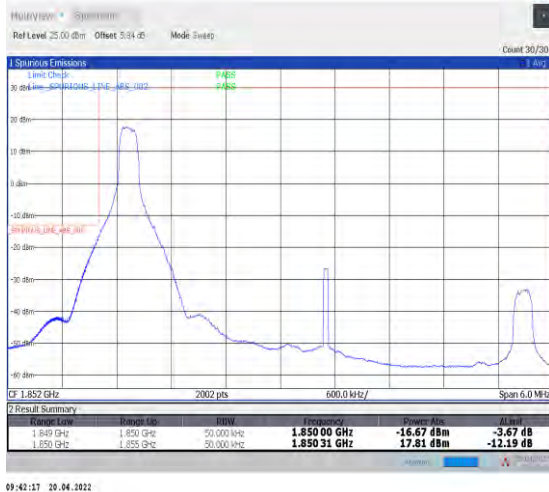
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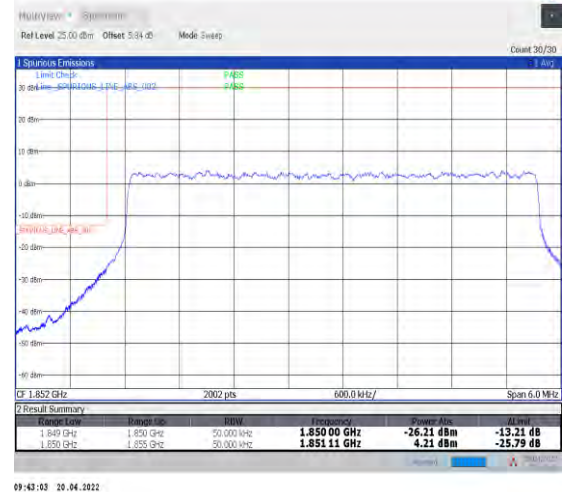
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Band Edge for SA

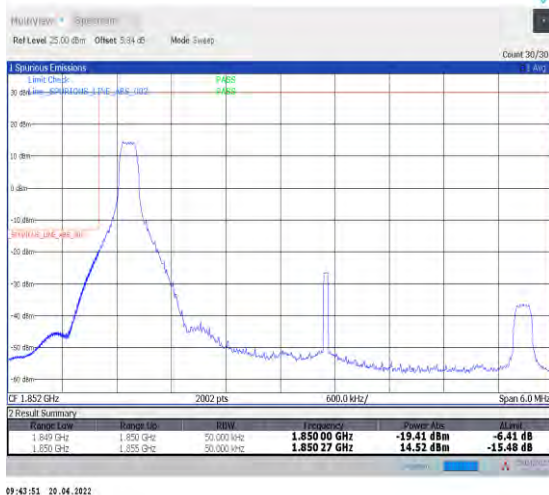
Test Graphs



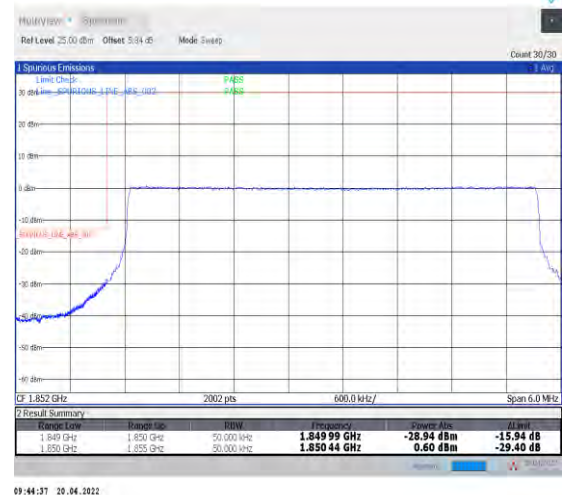
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1-N25--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-seegraph-PASS-see graph



1-N25--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant0-seegraph-PASS-see graph



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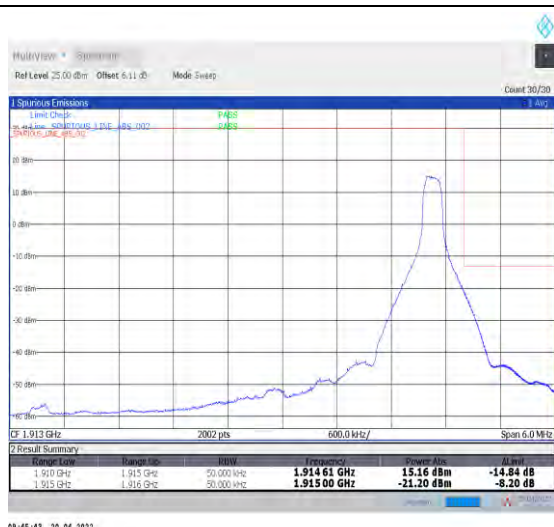
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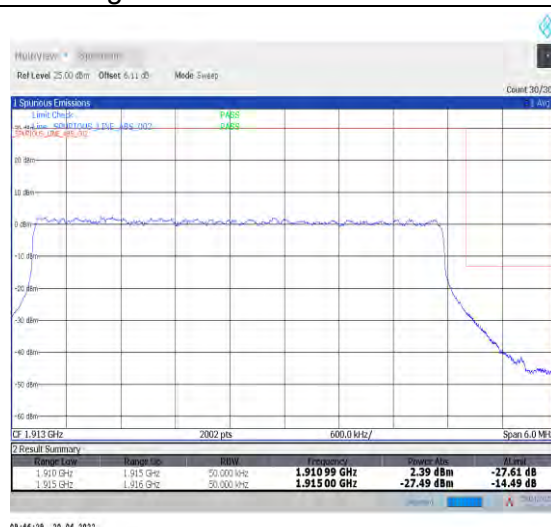
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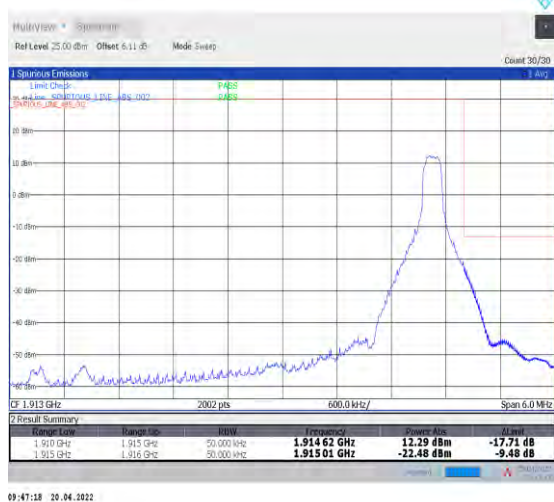
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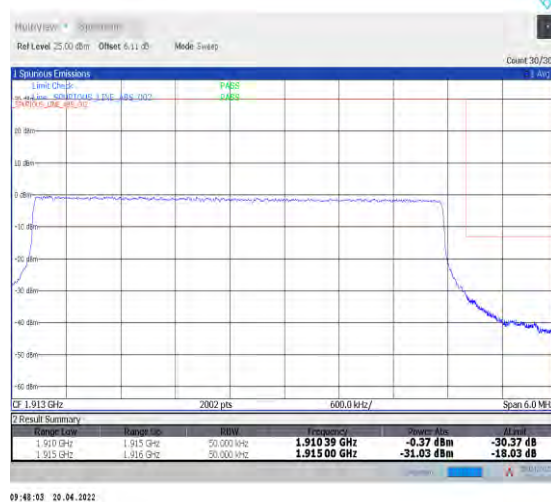
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1-N25--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant
0-seegraph-PASS-see graph



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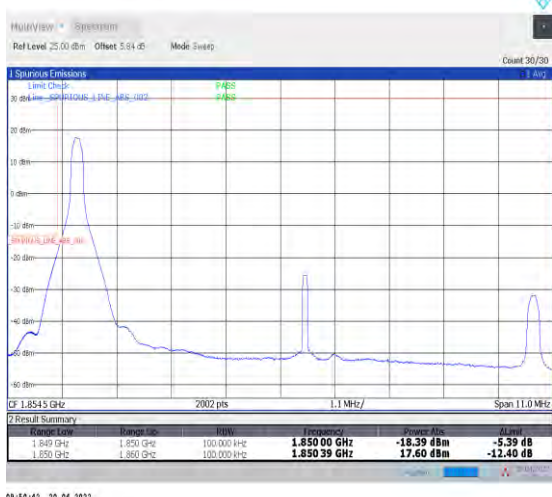
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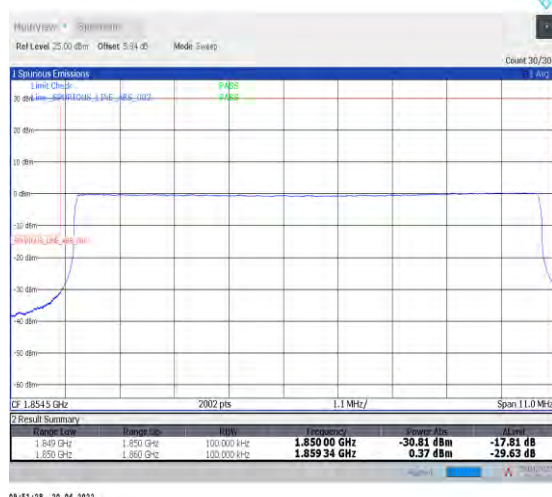
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09:50:42 20.04.2022

1-N25--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant
0-seegraph-PASS-see graph



09:51:28 20.04.2022

1-N25--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant
0-seegraph-PASS-see graph



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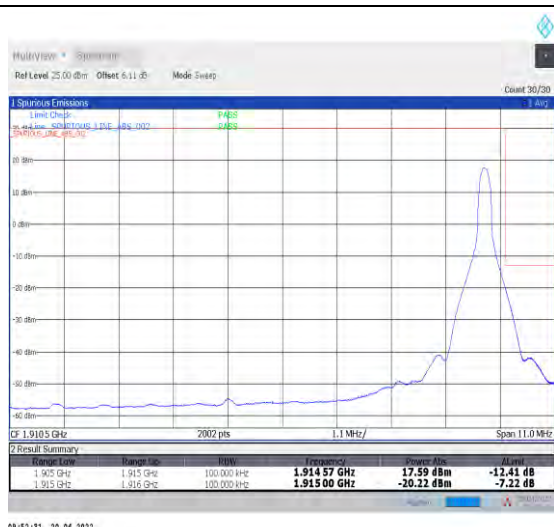
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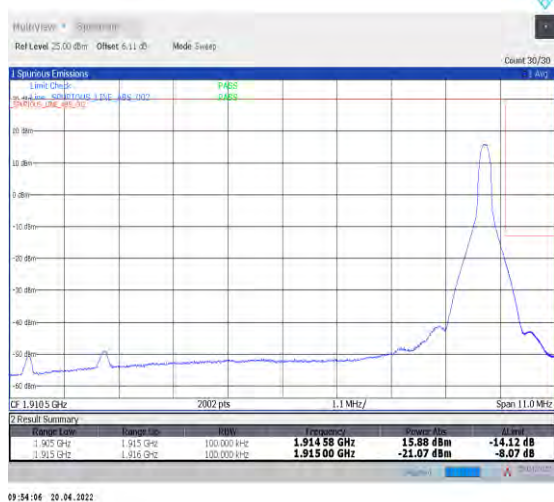
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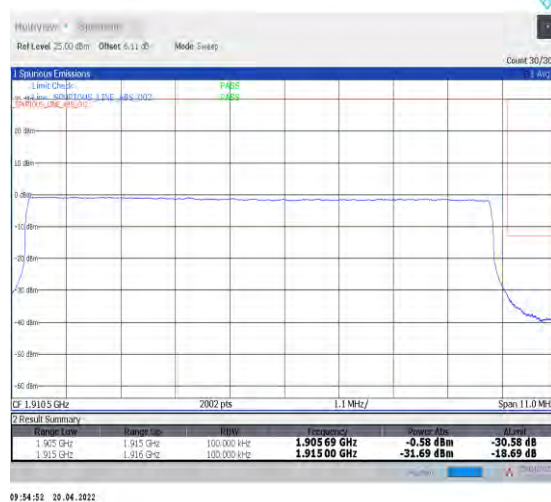
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09:54:52 20.04.2022

1-N25--15-10-H-6-CP-QPSK-Outer_Full-52@0-An
t0-seegraph-PASS-see graph



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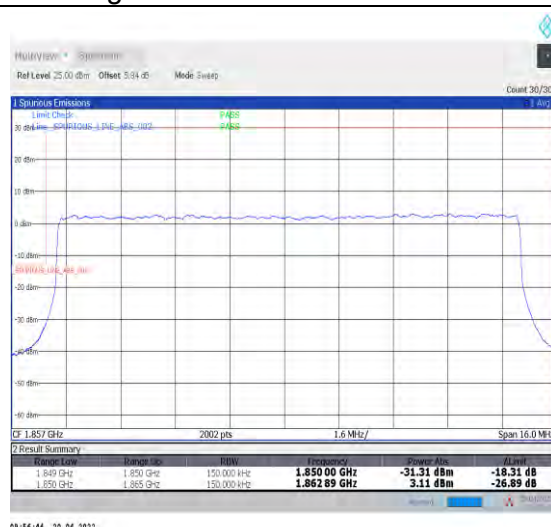
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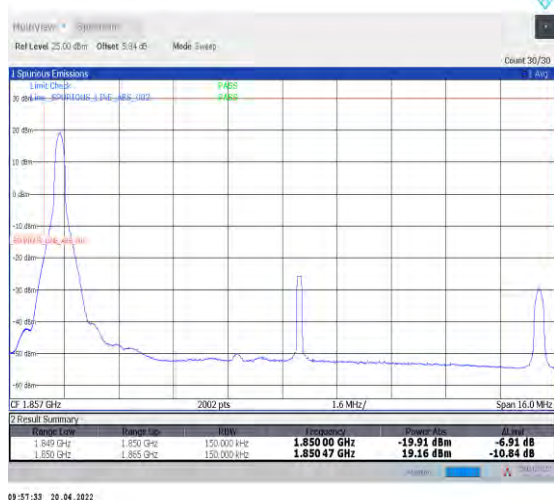
Page: 72 of 91



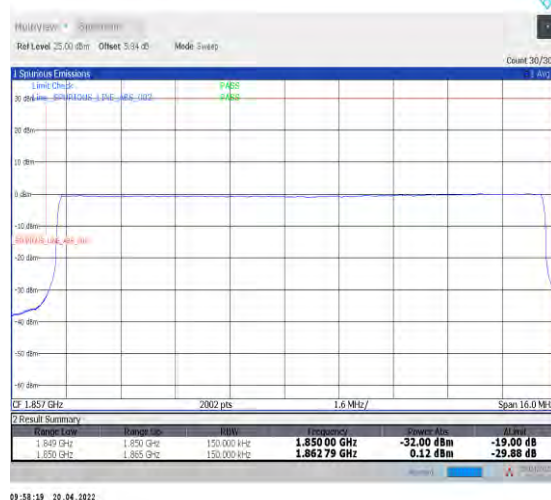
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-Ant0-seegraph-PASS-see graph



1-N25--15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant
0-seegraph-PASS-see graph



1-N25--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant
0-seegraph-PASS-see graph



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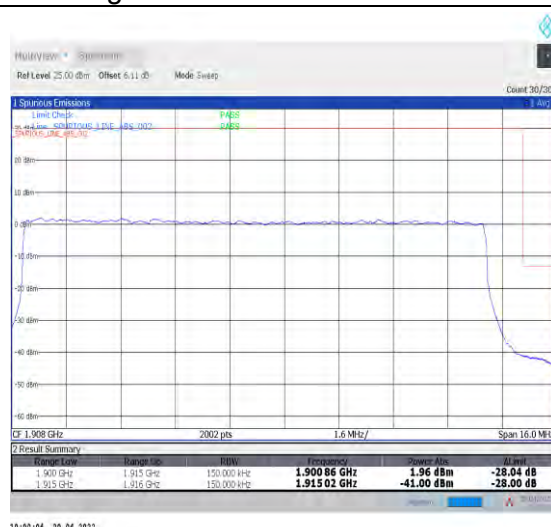
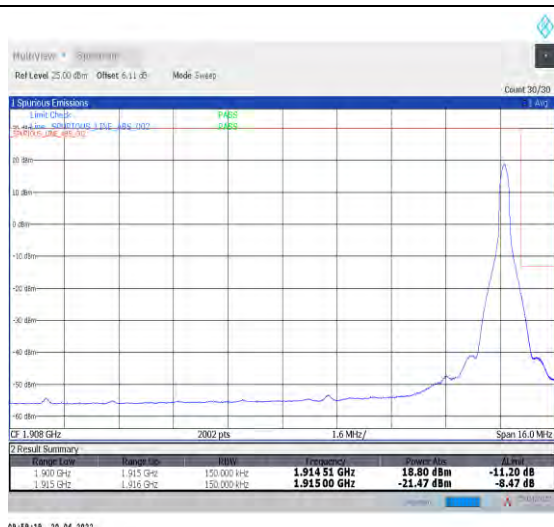
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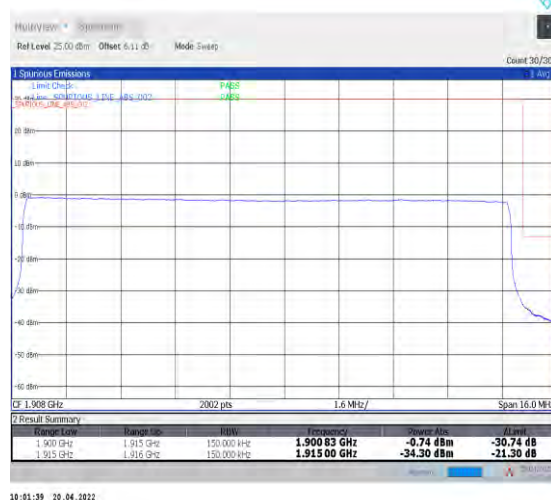
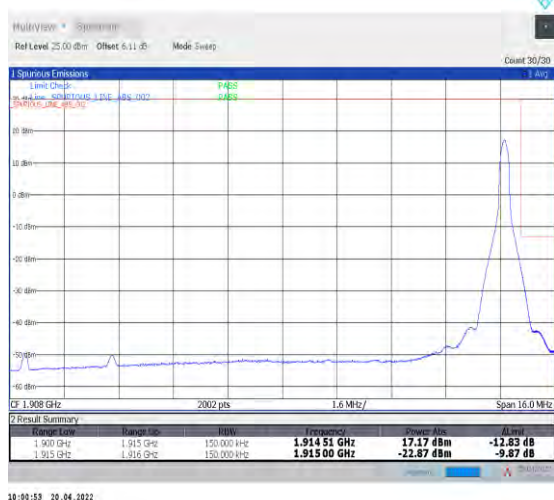
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1-N25--15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1
@78-Ant0-seegraph-PASS-see graph

1-N25--15-15-H-3-DFT-PI2BPSK-Outer_Full-75@
0-Ant0-seegraph-PASS-see graph



1-N25--15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-
Ant0-seegraph-PASS-see graph

1-N25--15-15-H-6-CP-QPSK-Outer_Full-79@0-An
t0-seegraph-PASS-see graph



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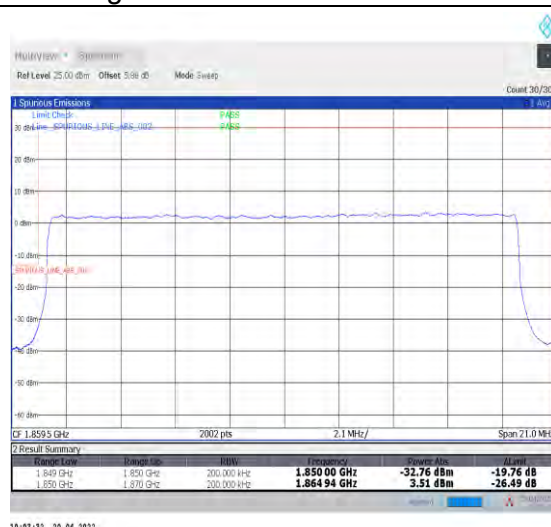
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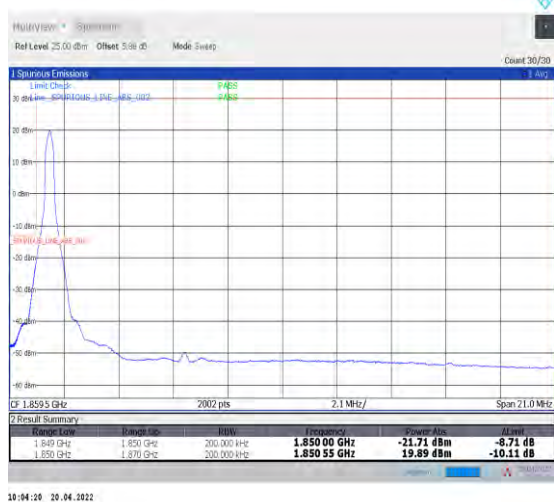
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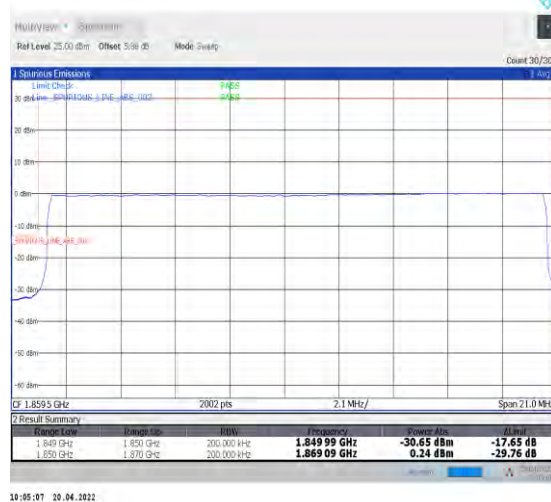
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0-Ant0-seegraph-PASS-see graph



10:04:26 20.04.2022

1-N25--15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant
0-seegraph-PASS-see graph



10:05:07 20.04.2022

1-N25--15-20-L-6-CP-QPSK-Outer_Full-106@0-A
nt0-seegraph-PASS-see graph



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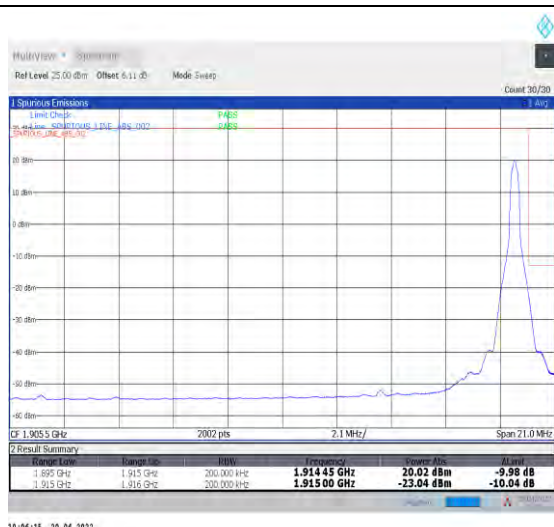
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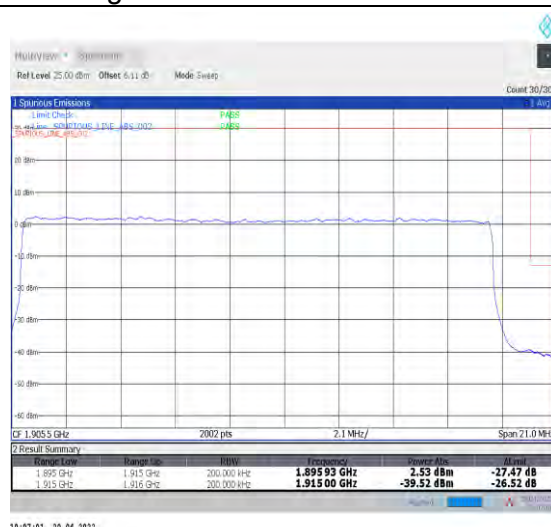
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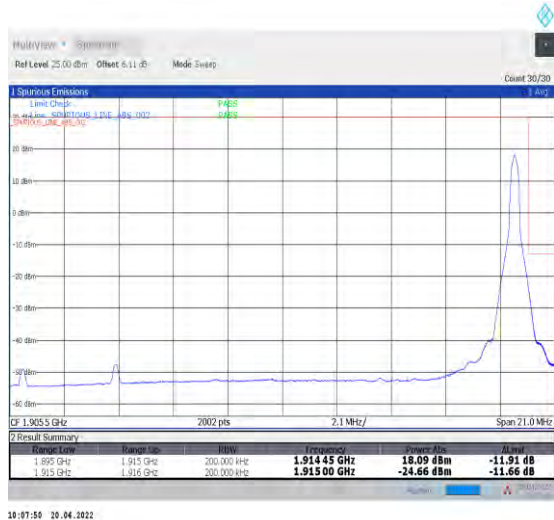
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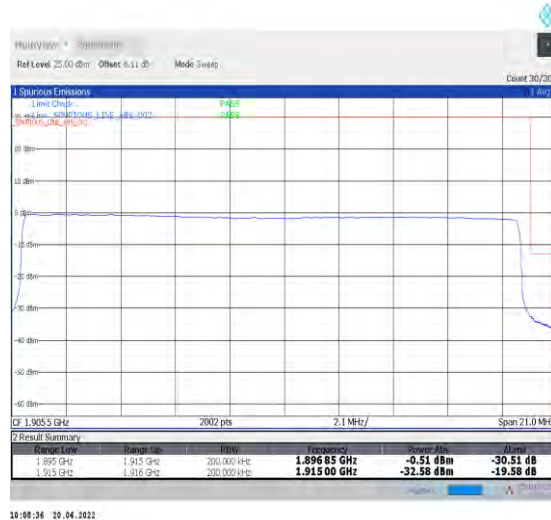
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@105-Ant0-seegraph-PASS-see graph

1-N25--15-20-H-3-DFT-PI2BPSK-Outer_Full-100
@0-Ant0-seegraph-PASS-see graph



10:07:55 20.04.2022



10:08:36 20.04.2022

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1-N25--15-20-H-6-CP-QPSK-Outer_Full-106@0-A
nt0-seegraph-PASS-see graph



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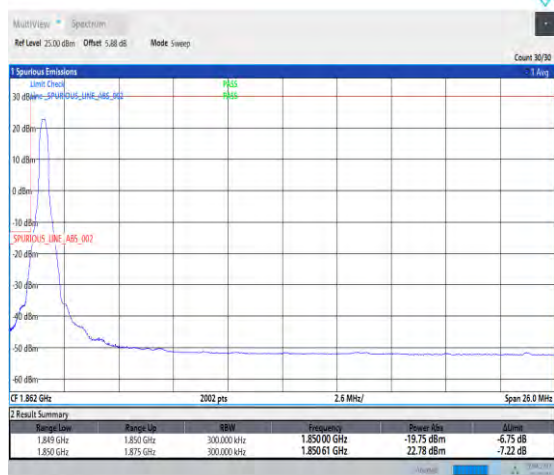
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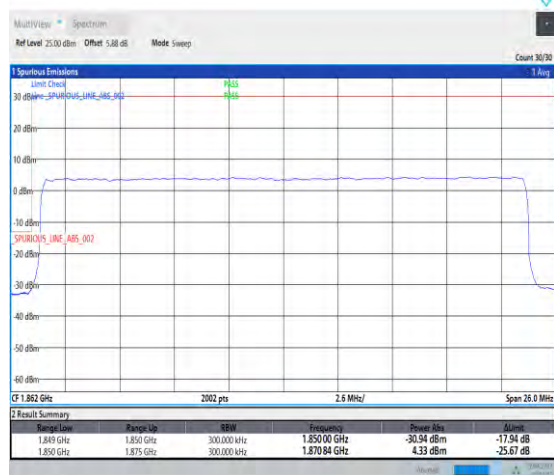
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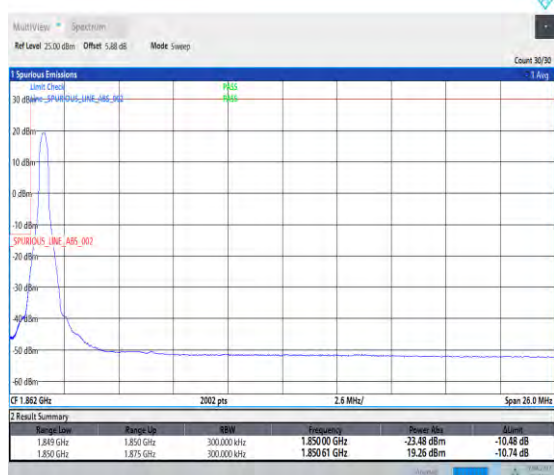
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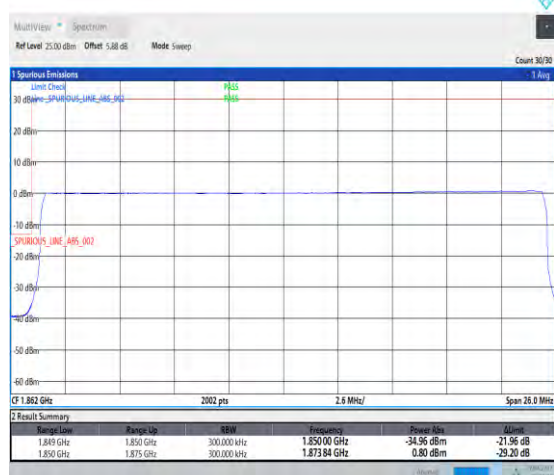
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1-N25--15-25-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant0-seegraph-PASS-see graph



18:21:13 22.04.2022

1-N25--15-25-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-seegraph-PASS-see graph



18:22:00 22.04.2022

1-N25--15-25-L-6-CP-QPSK-Outer_Full-133@0-Ant0-seegraph-PASS-see graph



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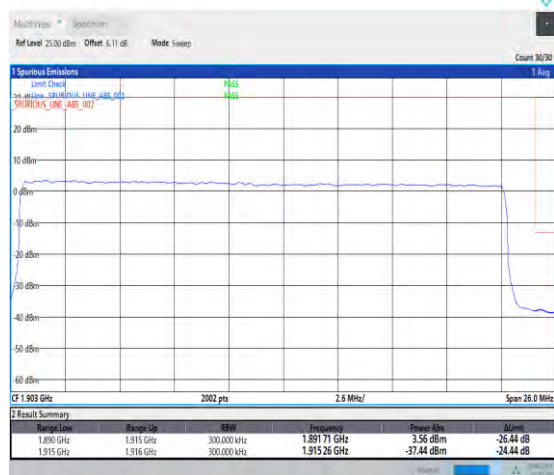
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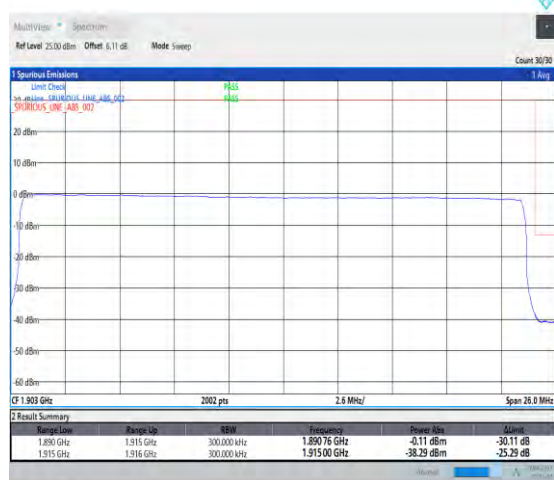
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18:26:10 22.04.2022

1-N25--15-25-H-5-CP-QPSK-Edge_1RB_Right-1@132
-Ant0-seegraph-PASS-see graph



18:26:47 22.04.2022

1-N25--15-25-H-6-CP-QPSK-Outer_Full-133@0-A
nt0-seegraph-PASS-see graph



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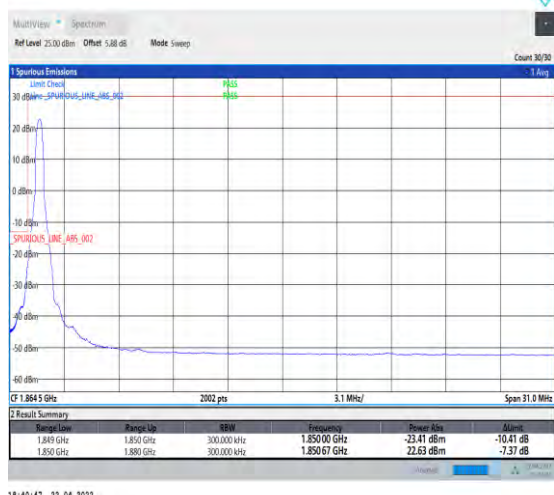
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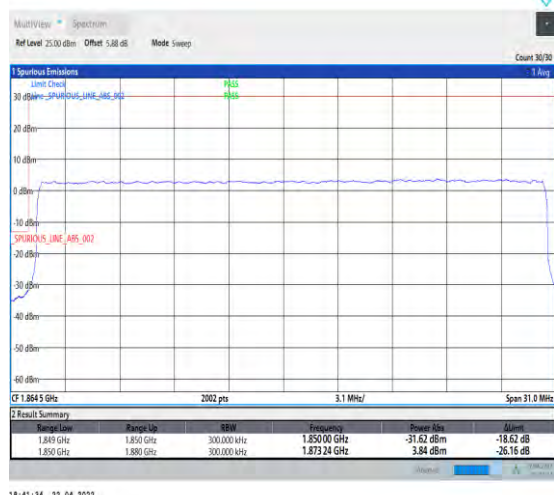
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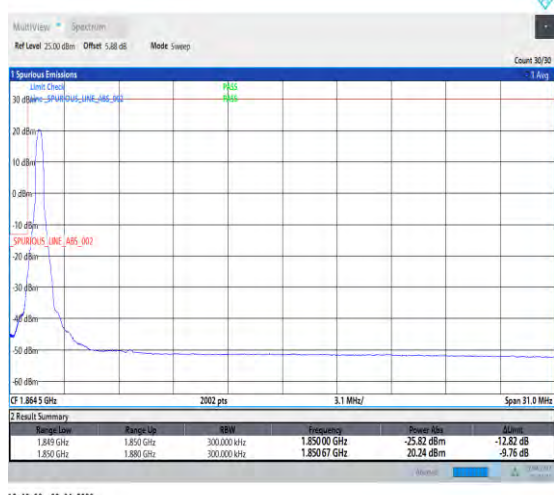
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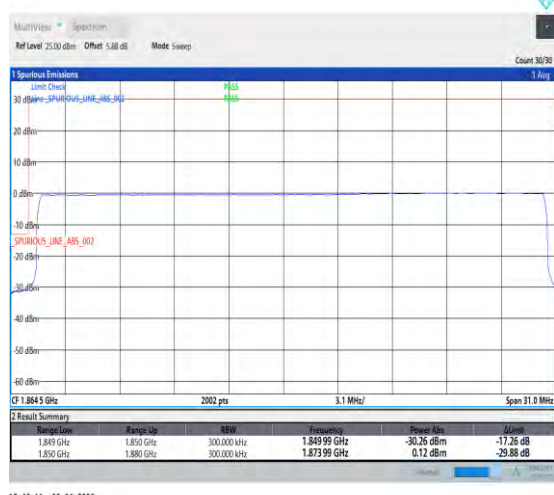
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1-N25--15-30-L-6-CP-QPSK-Outer_Full-160@0-Ant0-seegraph-PASS-see graph



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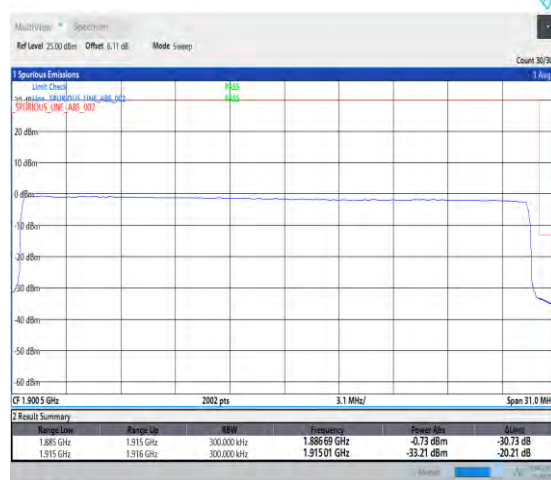
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1-N25--15-30-H-6-CP-QPSK-Outer_Full-160@0-A
nt0-seegraph-PASS-see graph



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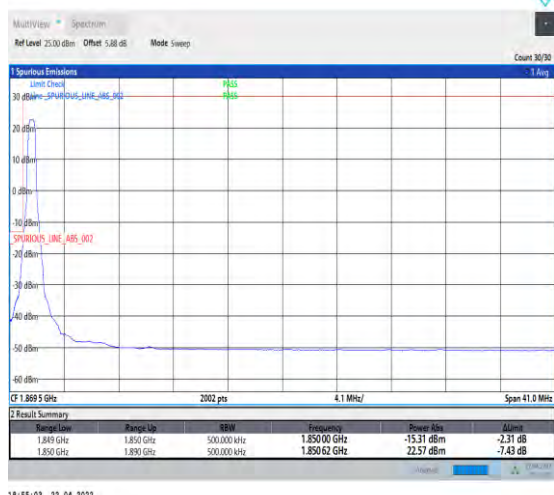
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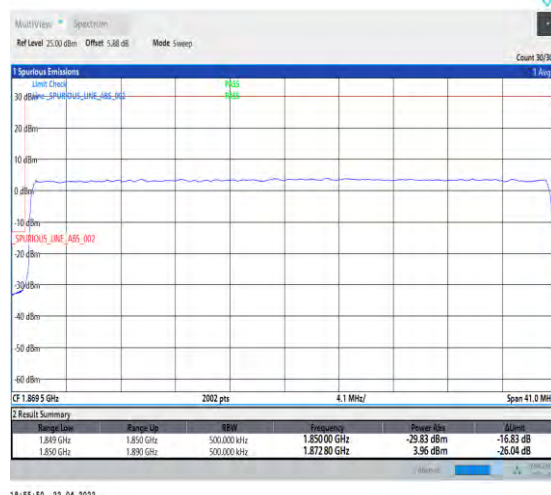
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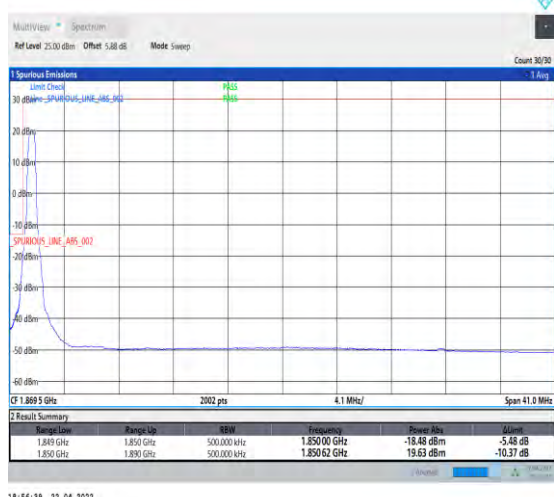
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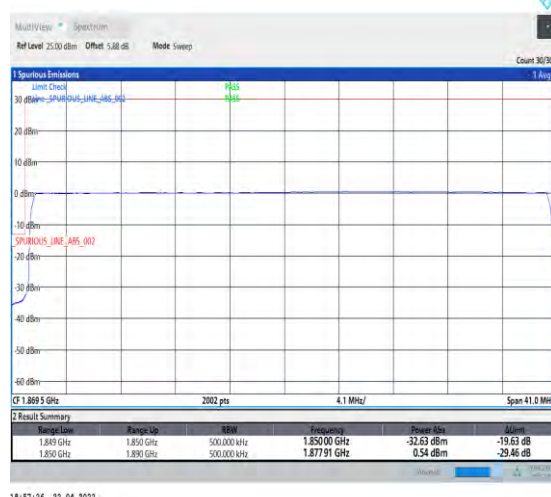
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1-N25--15-40-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant0-seegraph-PASS-see graph



1-N25--15-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-seegraph-PASS-see graph



1-N25--15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant0-seegraph-PASS-see graph



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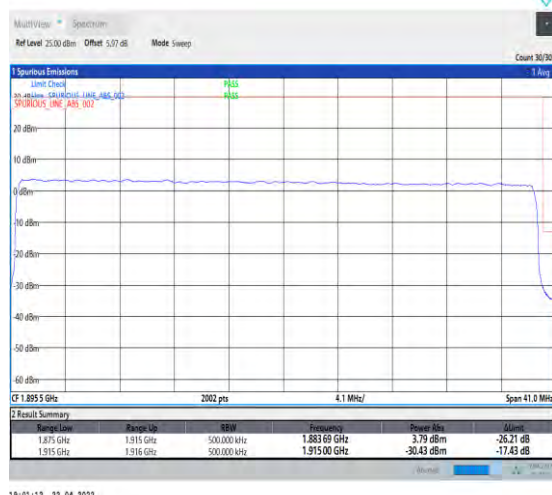
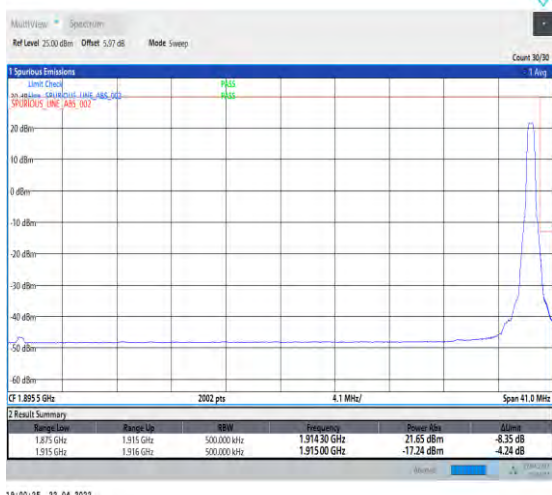
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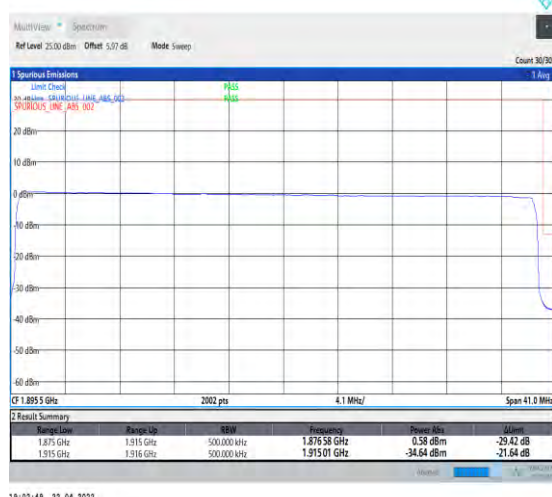
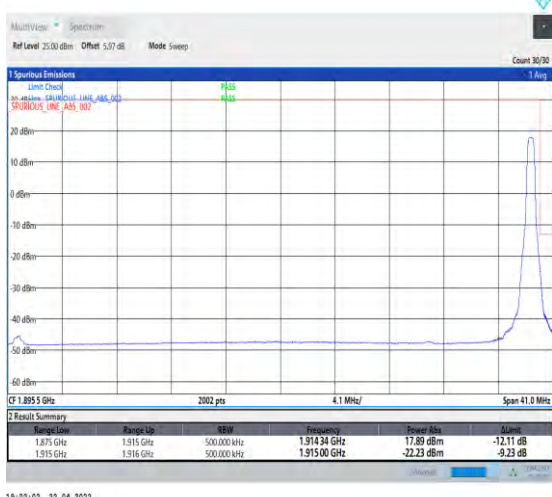
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1-N25--15-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1
@215-Ant0-seegraph-PASS-see graph

1-N25--15-40-H-3-DFT-PI2BPSK-Outer_Full-216
@0-Ant0-seegraph-PASS-see graph



1-N25--15-40-H-5-CP-QPSK-Edge_1RB_Right-1@215
-Ant0-seegraph-PASS-see graph

1-N25--15-40-H-6-CP-QPSK-Outer_Full-216@0-A
nt0-seegraph-PASS-see graph



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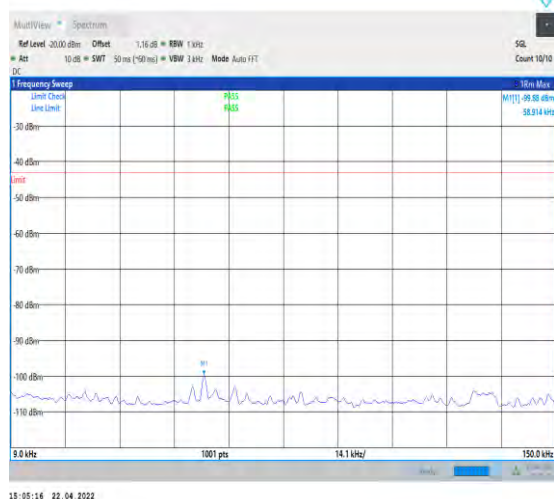
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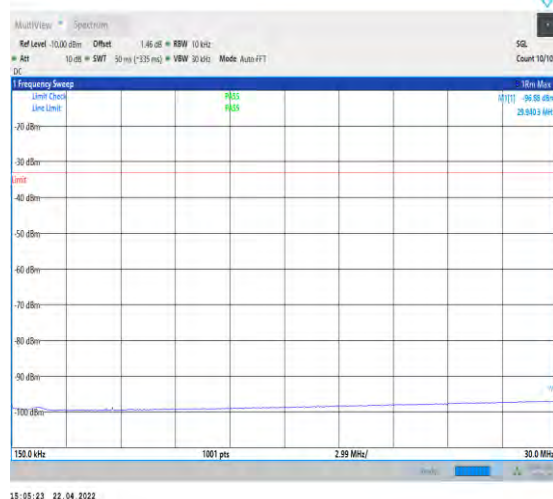
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Conducted Spurious Emission for SA

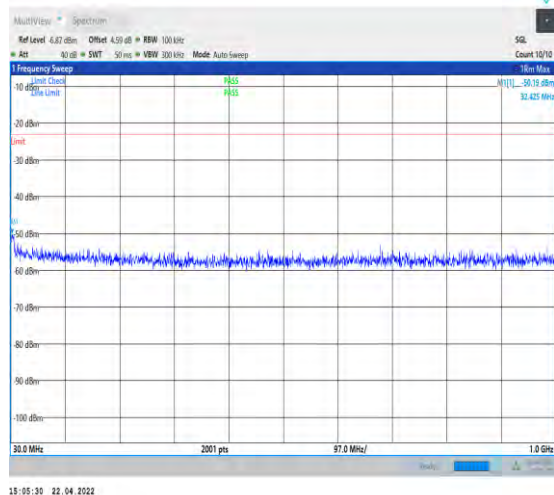
Test Graphs



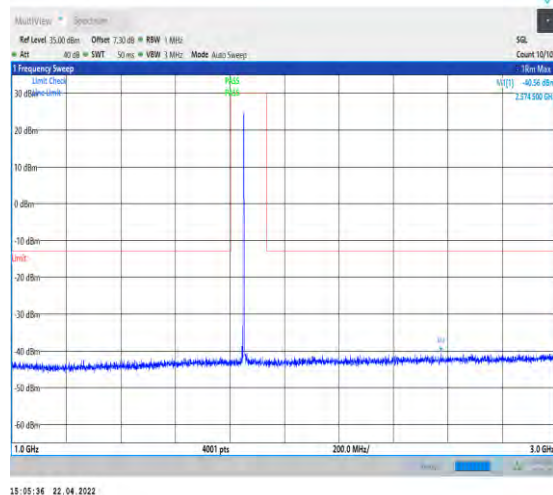
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@1-0.009-0.15-Ant0--99.88--43-PASS



1-N25--15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-0.15-30-Ant0--96.88--33-PASS



1-N25--15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-30-1000-Ant0--50.19--23-PASS



1-N25--15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-1000-3000-Ant0--40.56--13-PASS



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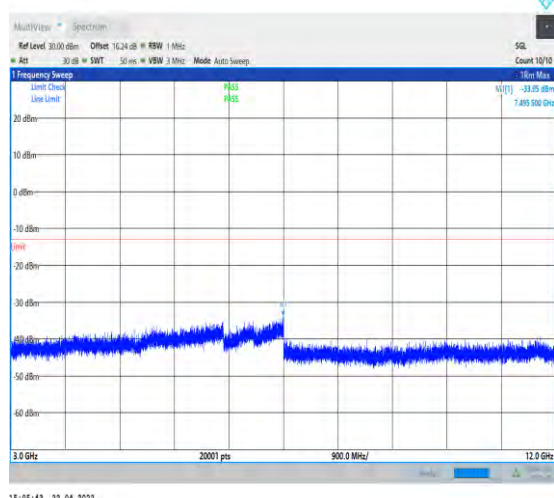
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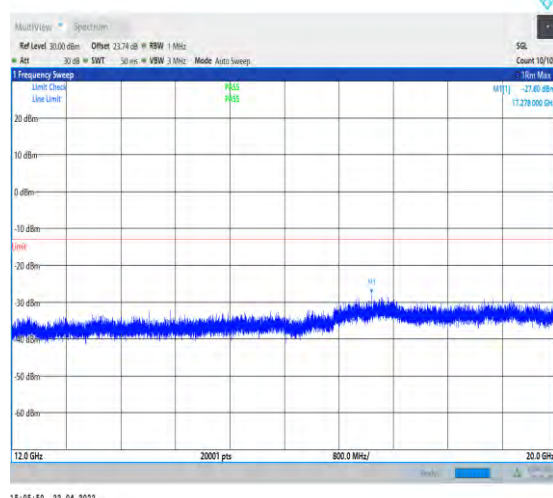
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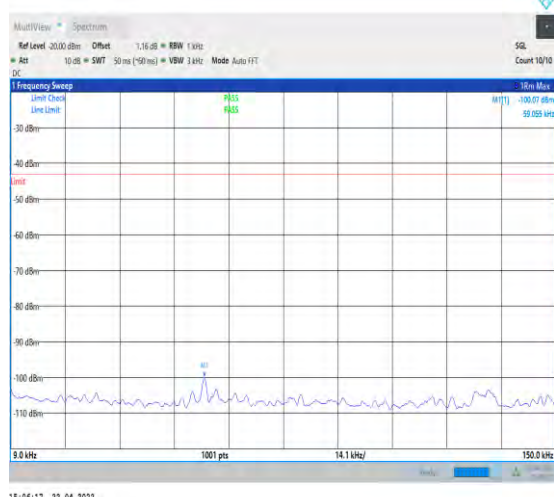
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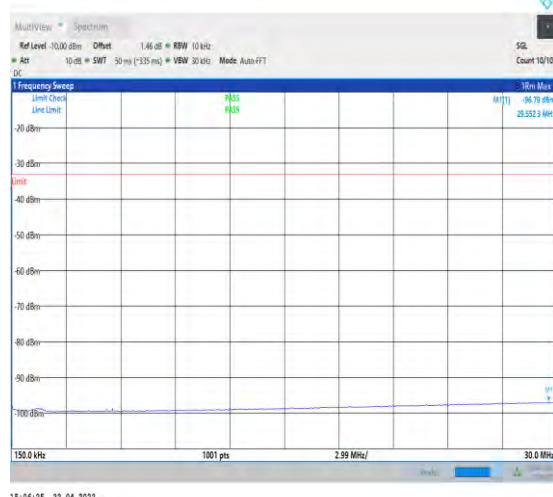
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1-N25--15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-12000-20000-Ant0--27.80--13-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.009-0.15-Ant0--100.07--43-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant0--96.79--33-PASS



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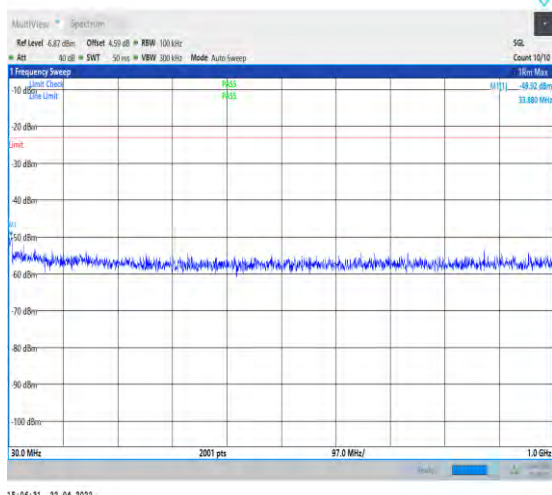
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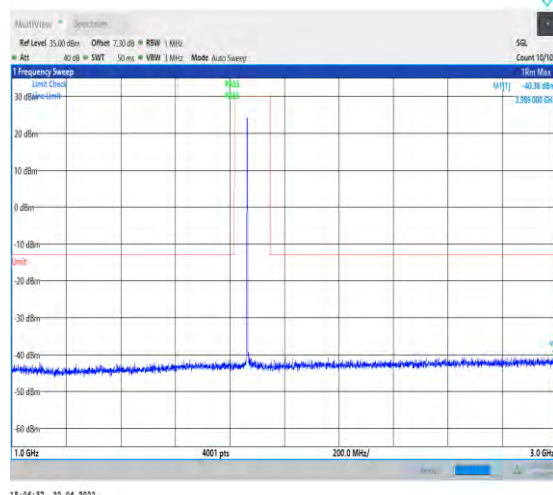
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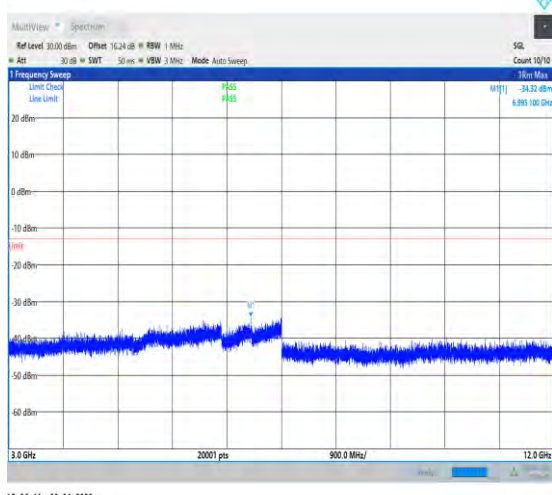
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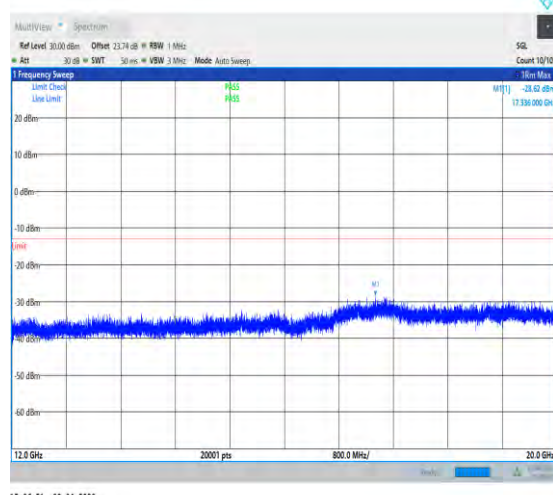
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@1-1000-3000-Ant0--40.38--13-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant0--34.32--13-PASS



1-N25--15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-20000-Ant0--28.62--13-PASS



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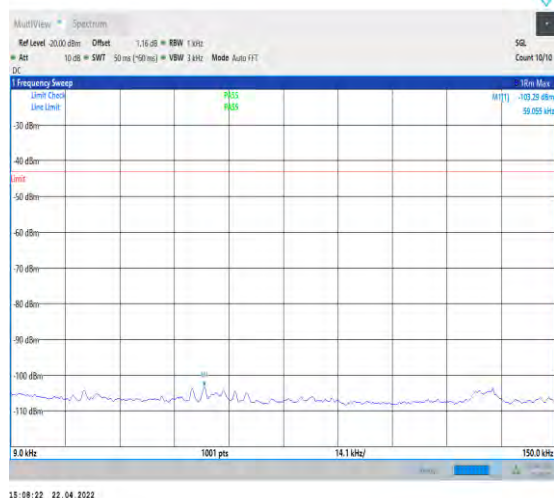
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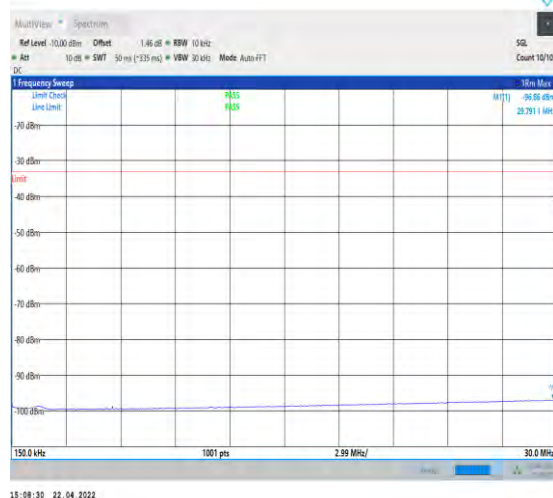
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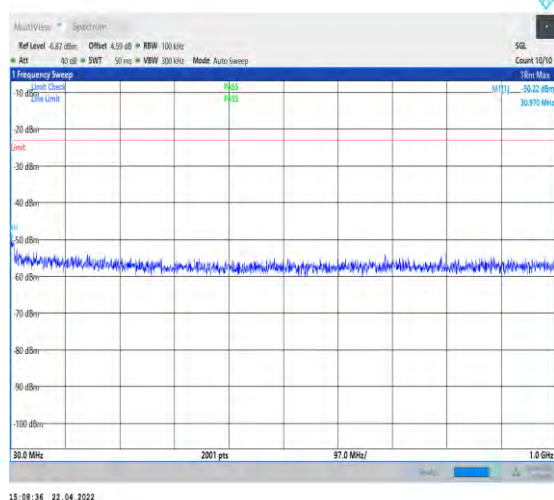
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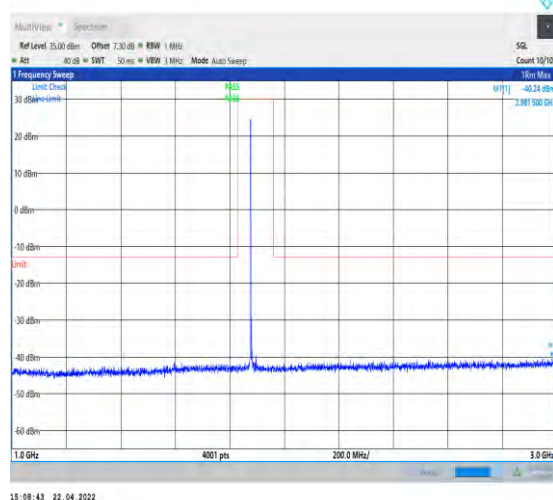
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@1-0.15-30-Ant0--96.86--33-PASS



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-30-1000-Ant0--50.22--23-PASS



1-N25--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant0--40.24--13-PASS



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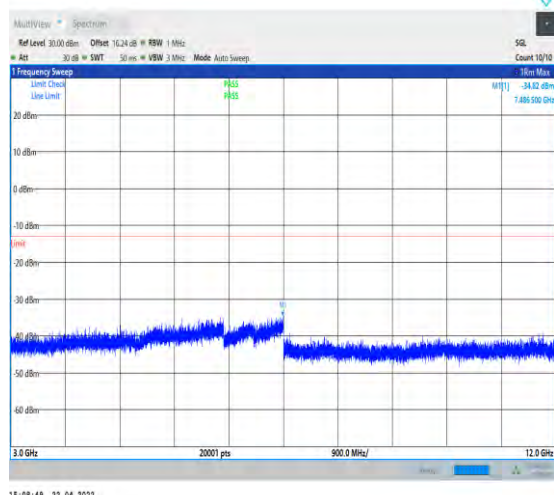
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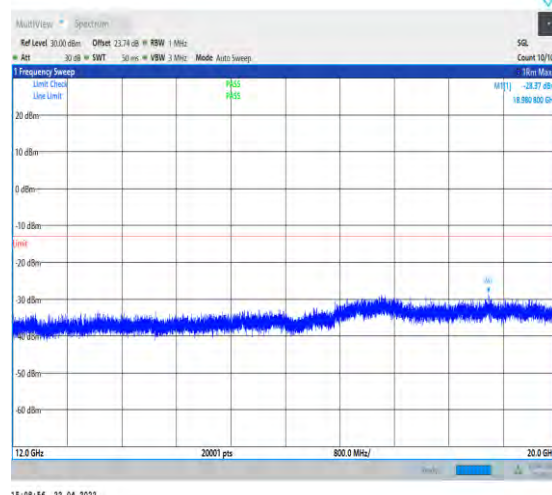
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@1-3000-12000-Ant0--34.82--13-PASS



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@1-12000-20000-Ant0--28.37--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 25_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.18	47.71	-111.06	-63.35	-13.00	50.35	142	85	Horizontal
2	5556.27	49.91	-106.35	-56.44	-13.00	43.44	263	132	Horizontal
3	7408.36	47.69	-100.76	-53.07	-13.00	40.07	251	65	Horizontal
4	9260.45	46.77	-95.08	-48.31	-13.00	35.31	178	245	Horizontal
5	11112.54	41.87	-91.10	-49.23	-13.00	36.23	265	255	Horizontal
6	12964.63	42.13	-90.59	-48.46	-13.00	35.46	284	329	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.18	47.83	-111.06	-63.23	-13.00	50.23	163	230	Vertical
2	5556.27	49.50	-106.35	-56.85	-13.00	43.85	100	357	Vertical
3	7408.36	48.48	-100.76	-52.28	-13.00	39.28	174	357	Vertical
4	9260.45	46.33	-95.08	-48.75	-13.00	35.75	262	1	Vertical
5	11112.54	43.16	-91.10	-47.94	-13.00	34.94	244	312	Vertical
6	12964.63	43.43	-90.59	-47.16	-13.00	34.16	188	6	Vertical



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Test Band = SA Band 25_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.18	47.81	-110.93	-63.12	-13.00	50.12	142	2	Horizontal
2	5593.77	49.63	-106.22	-56.59	-13.00	43.59	265	294	Horizontal
3	7458.36	46.79	-100.54	-53.75	-13.00	40.75	251	47	Horizontal
4	9322.95	46.55	-95.03	-48.48	-13.00	35.48	144	16	Horizontal
5	11187.54	42.75	-90.86	-48.11	-13.00	35.11	185	327	Horizontal
6	13052.13	43.76	-90.31	-46.55	-13.00	33.55	265	228	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.18	48.00	-110.93	-62.93	-13.00	49.93	142	357	Vertical
2	5593.77	51.18	-106.22	-55.04	-13.00	42.04	263	313	Vertical
3	7458.36	46.25	-100.54	-54.29	-13.00	41.29	255	265	Vertical
4	9322.95	47.23	-95.03	-47.80	-13.00	34.80	177	329	Vertical
5	11187.54	42.51	-90.86	-48.35	-13.00	35.35	266	82	Vertical
6	13052.13	43.60	-90.31	-46.71	-13.00	33.71	211	8	Vertical



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Test Band = SA Band 25_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.18	48.21	-110.80	-62.59	-13.00	49.59	263	96	Horizontal
2	5631.27	49.69	-106.06	-56.37	-13.00	43.37	251	80	Horizontal
3	7508.36	47.54	-100.31	-52.77	-13.00	39.77	178	96	Horizontal
4	9385.45	47.03	-94.89	-47.86	-13.00	34.86	268	329	Horizontal
5	11262.54	43.34	-91.13	-47.79	-13.00	34.79	148	0	Horizontal
6	13139.63	43.97	-90.18	-46.21	-13.00	33.21	144	243	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.18	46.92	-110.80	-63.88	-13.00	50.88	263	9	Vertical
2	5631.27	50.12	-106.06	-55.94	-13.00	42.94	284	3	Vertical
3	7508.36	48.22	-100.31	-52.09	-13.00	39.09	175	182	Vertical
4	9385.45	45.80	-94.89	-49.09	-13.00	36.09	298	118	Vertical
5	11262.54	44.14	-91.13	-46.99	-13.00	33.99	244	213	Vertical
6	13139.63	42.97	-90.18	-47.21	-13.00	34.21	144	345	Vertical



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	4.800000	0.002550	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.100000	0.002178	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.300000	0.001222	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VH	NT	2.300000	0.001222	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VN	NT	10.500000	0.005578	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VL	NT	5.900000	0.003134	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.300000	0.004940	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.400000	0.004462	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	15.400000	0.008181	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	18.800000	0.009987	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	17.600000	0.009349	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	15.000000	0.007968	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	16.400000	0.008712	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	11.600000	0.006162	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	5.100000	0.002709	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-30	3.400000	0.001806	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-20	12.000000	0.006375	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-10	3.900000	0.002072	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	0	5.200000	0.002762	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	10	6.300000	0.003347	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	20	4.100000	0.002178	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	30	10.600000	0.005631	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	40	4.200000	0.002231	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	50	8.700000	0.004622	PASS

---End of Attachment---



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