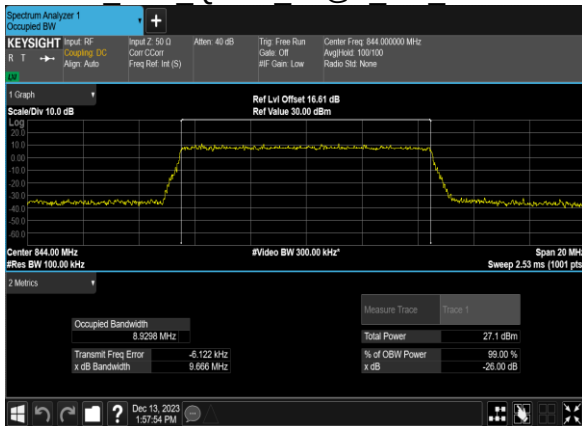
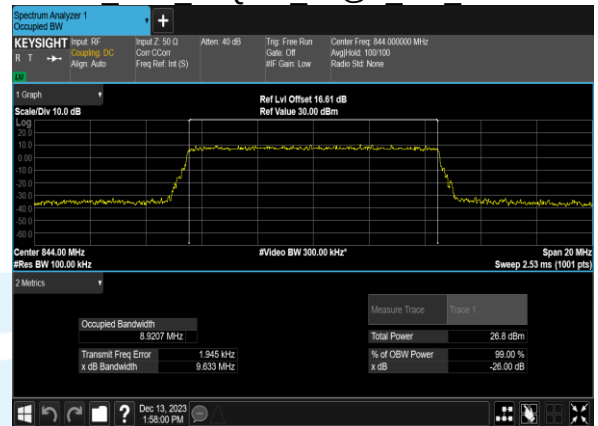


B5 10M QPSK 50@0 CH 20600



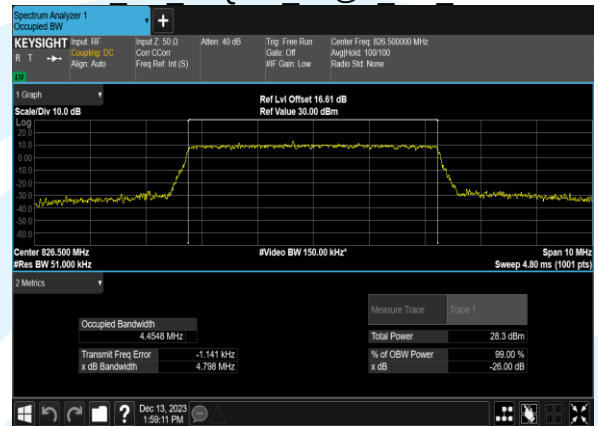
B5 10M 16QAM 50@0 CH 20600



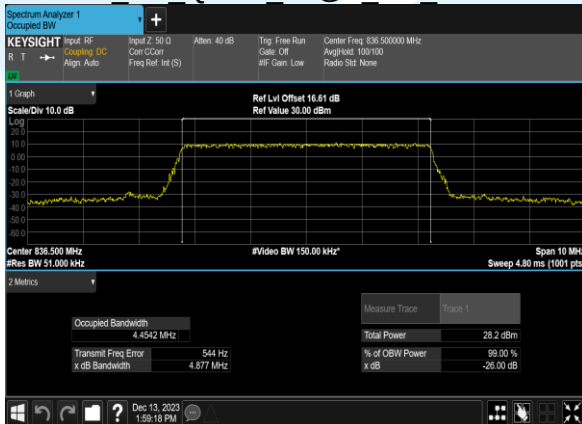
B5 5M QPSK 25@0 CH 20425



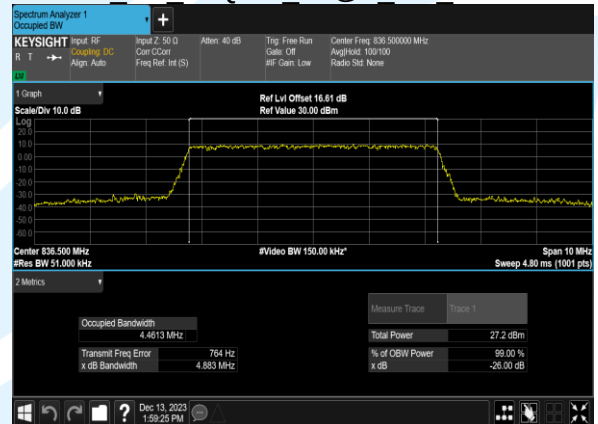
B5 5M 16QAM 25@0 CH 20425



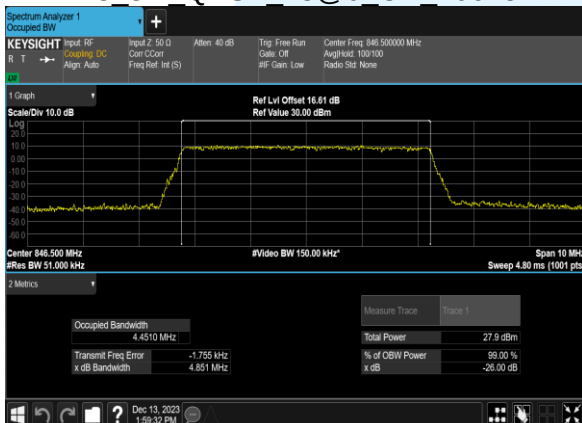
B5 5M QPSK 25@0 CH 20525



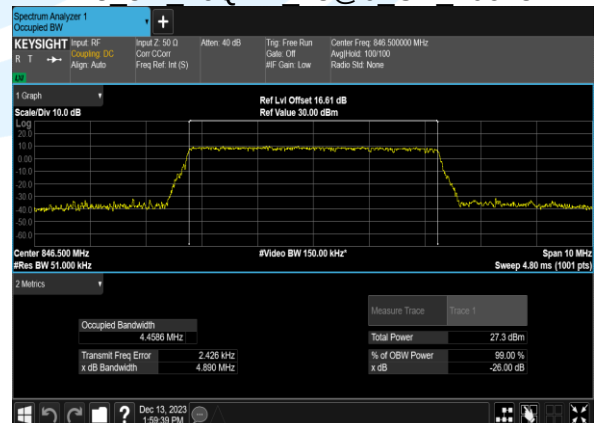
B5 5M 16QAM 25@0 CH 20525



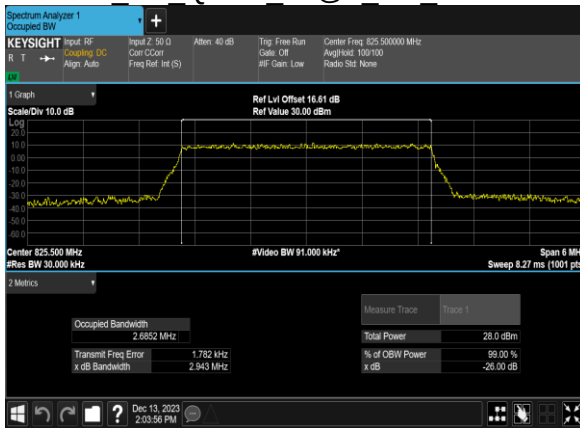
B5 5M QPSK 25@0 CH 20625



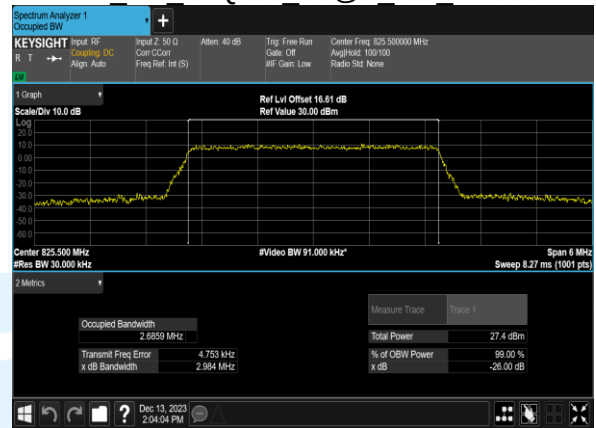
B5 5M 16QAM 25@0 CH 20625



B5 3M QPSK 15@0 CH 20415



B5 3M 16QAM 15@0 CH 20415



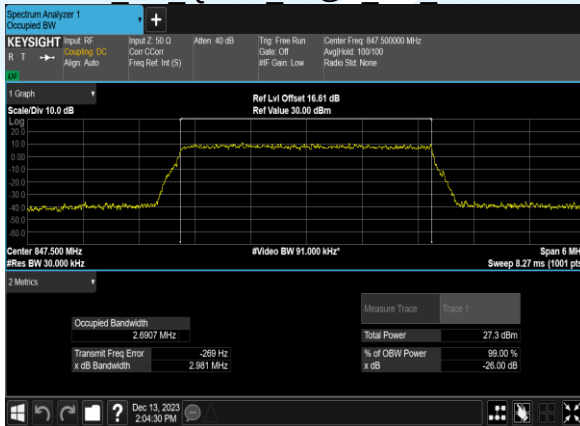
B5 3M QPSK 15@0 CH 20525



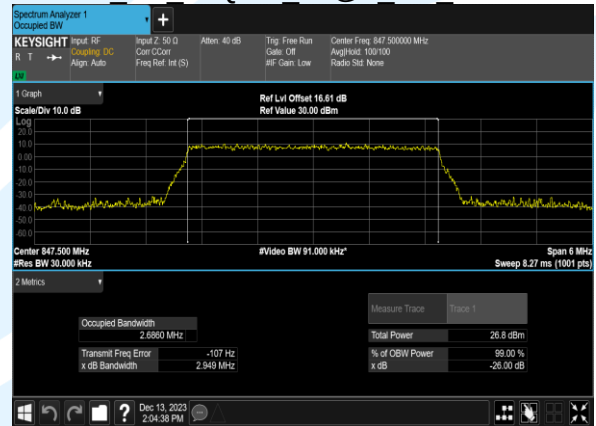
B5 3M 16QAM 15@0 CH 20525



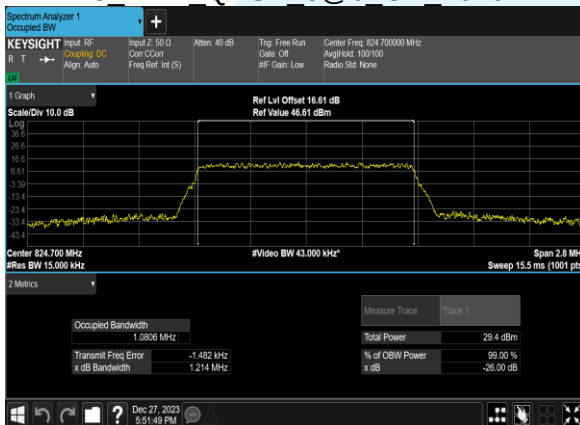
B5 3M QPSK 15@0 CH 20635



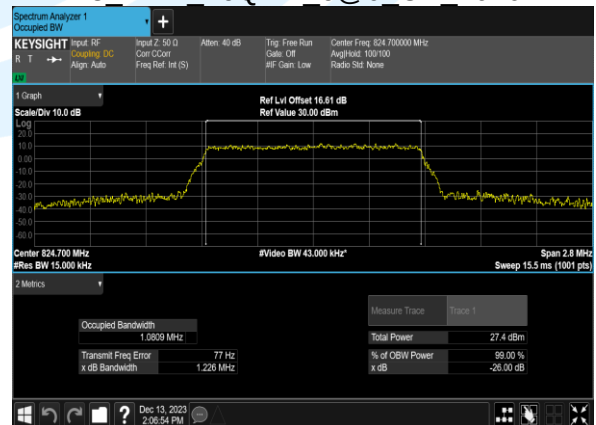
B5 3M 16QAM 15@0 CH 20635



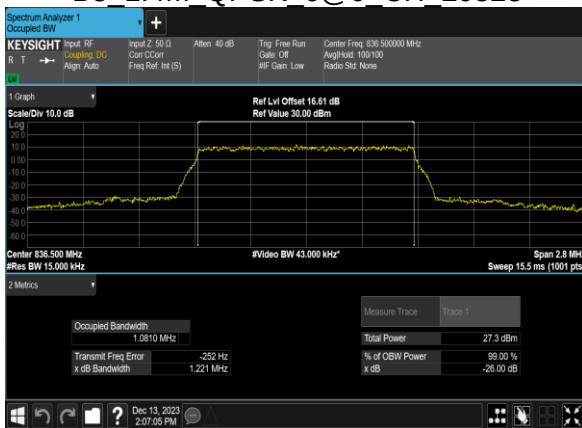
B5 1.4M QPSK 6@0 CH 20407



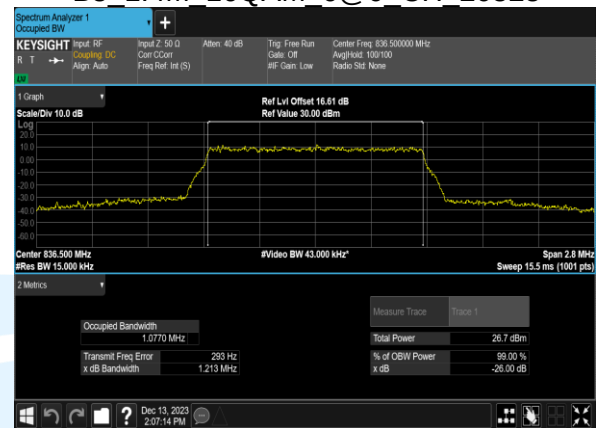
B5 1.4M 16QAM 6@0 CH 20407



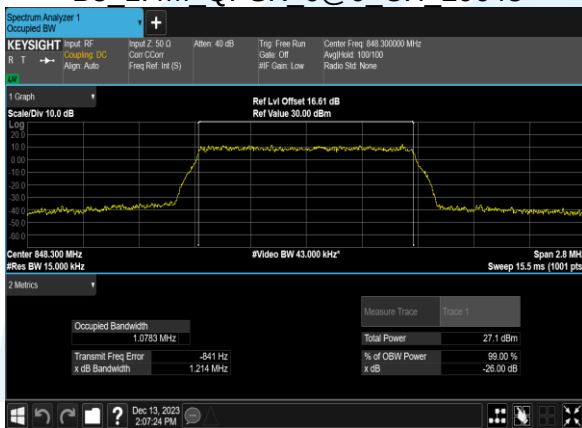
B5 1.4M QPSK 6@0 CH 20525



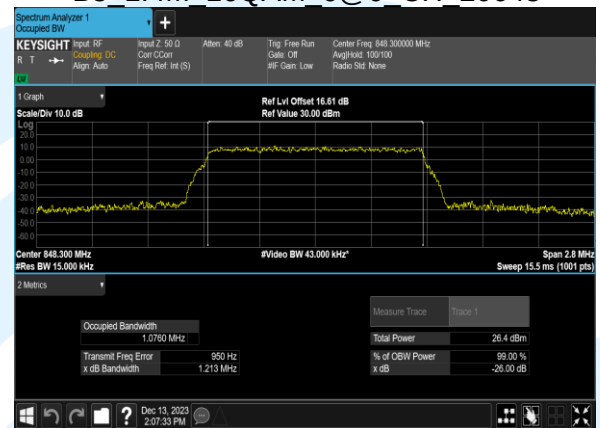
B5 1.4M 16QAM 6@0 CH 20525



B5 1.4M QPSK 6@0 CH 20643



B5 1.4M 16QAM 6@0 CH 20643



## Conducted Spurious Emissions

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB  | Result (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|------------|------------|-----|--------------|-------------|---------|
| 5    | 10.0            | 20450   | 829.0      | QPSK       | 1@0 | -18.77       | -13         | PASS    |
| 5    | 10.0            | 20450   | 829.0      | 16QAM      | 1@0 | -18.76       | -13         | PASS    |
| 5    | 10.0            | 20525   | 836.5      | QPSK       | 1@0 | -18.83       | -13         | PASS    |
| 5    | 10.0            | 20525   | 836.5      | 16QAM      | 1@0 | -18.73       | -13         | PASS    |
| 5    | 10.0            | 20600   | 844.0      | QPSK       | 1@0 | -19.46       | -13         | PASS    |
| 5    | 10.0            | 20600   | 844.0      | 16QAM      | 1@0 | -19.57       | -13         | PASS    |
| 5    | 5.0             | 20425   | 826.5      | QPSK       | 1@0 | -19.61       | -13         | PASS    |
| 5    | 5.0             | 20425   | 826.5      | 16QAM      | 1@0 | -19.28       | -13         | PASS    |
| 5    | 5.0             | 20525   | 836.5      | QPSK       | 1@0 | -19.39       | -13         | PASS    |
| 5    | 5.0             | 20525   | 836.5      | 16QAM      | 1@0 | -19.42       | -13         | PASS    |
| 5    | 5.0             | 20625   | 846.5      | QPSK       | 1@0 | -19.6        | -13         | PASS    |
| 5    | 5.0             | 20625   | 846.5      | 16QAM      | 1@0 | -18.96       | -13         | PASS    |
| 5    | 3.0             | 20415   | 825.5      | QPSK       | 1@0 | -18.19       | -13         | PASS    |
| 5    | 3.0             | 20415   | 825.5      | 16QAM      | 1@0 | -18.27       | -13         | PASS    |
| 5    | 3.0             | 20525   | 836.5      | QPSK       | 1@0 | -18.2        | -13         | PASS    |
| 5    | 3.0             | 20525   | 836.5      | 16QAM      | 1@0 | -18.16       | -13         | PASS    |
| 5    | 3.0             | 20635   | 847.5      | QPSK       | 1@0 | -19.08       | -13         | PASS    |
| 5    | 3.0             | 20635   | 847.5      | 16QAM      | 1@0 | -18.66       | -13         | PASS    |
| 5    | 1.4             | 20407   | 824.7      | QPSK       | 1@0 | -19.6        | -13         | PASS    |
| 5    | 1.4             | 20407   | 824.7      | 16QAM      | 1@0 | -19.33       | -13         | PASS    |
| 5    | 1.4             | 20525   | 836.5      | QPSK       | 1@0 | -19.53       | -13         | PASS    |
| 5    | 1.4             | 20525   | 836.5      | 16QAM      | 1@0 | -19.68       | -13         | PASS    |
| 5    | 1.4             | 20643   | 848.3      | QPSK       | 1@0 | -18.89       | -13         | PASS    |
| 5    | 1.4             | 20643   | 848.3      | 16QAM      | 1@0 | -19.14       | -13         | PASS    |

## Test Graphs

B5 10M QPSK 1@0 CH 20450



B5 10M 16QAM 1@0 CH 20450



B5 10M QPSK 1@0 CH 20525



B5 10M 16QAM 1@0 CH 20525



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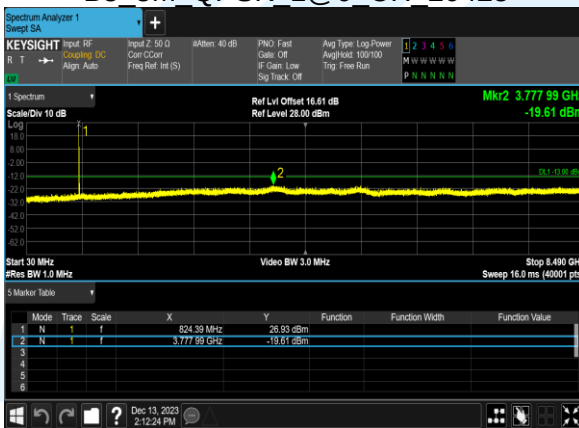
B5\_10M QPSK 1@0 CH 20600



B5\_10M 16QAM 1@0 CH 20600



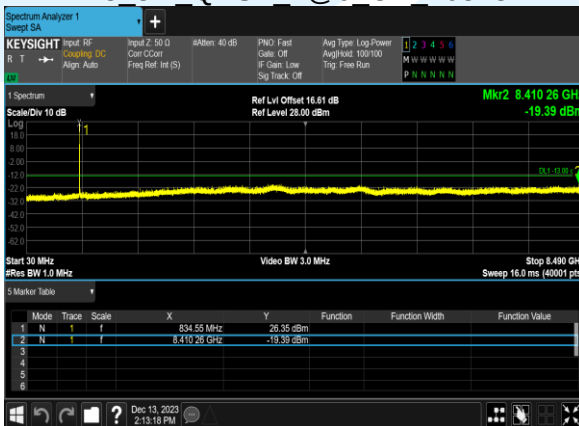
B5\_5M QPSK 1@0 CH 20425



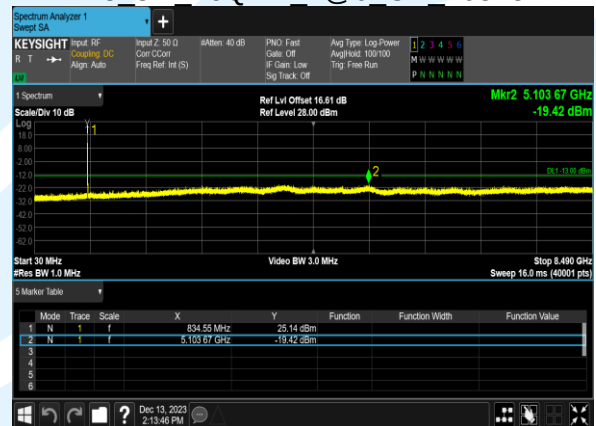
B5\_5M 16QAM 1@0 CH 20425



B5\_5M QPSK 1@0 CH 20525



B5\_5M 16QAM 1@0 CH 20525



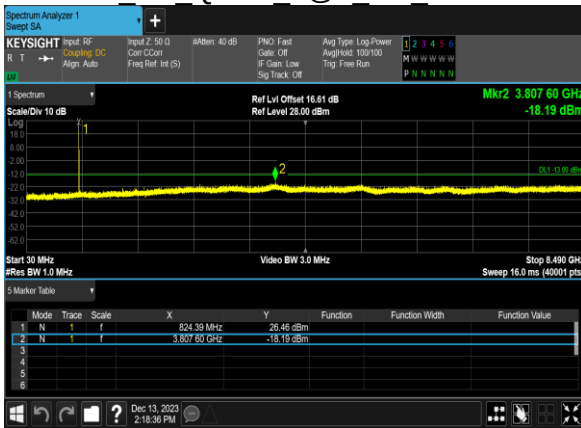
B5\_5M QPSK 1@0 CH 20625



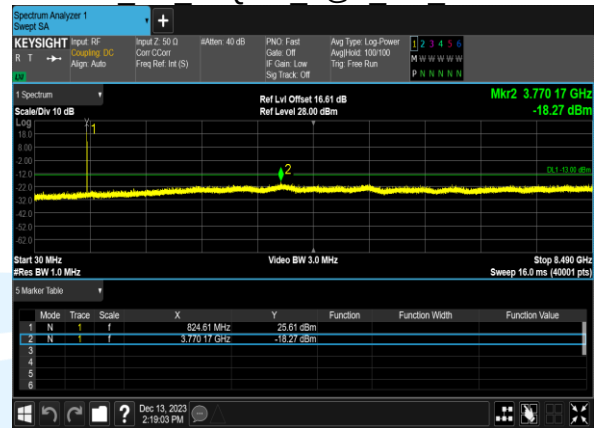
B5\_5M 16QAM 1@0 CH 20625



B5 3M QPSK 1@0 CH 20415



B5 3M 16QAM 1@0 CH 20415



B5 3M QPSK 1@0 CH 20525



B5 3M 16QAM 1@0 CH 20525



B5 3M QPSK 1@0 CH 20635



B5 3M 16QAM 1@0 CH 20635



B5 1.4M QPSK 1@0 CH 20407



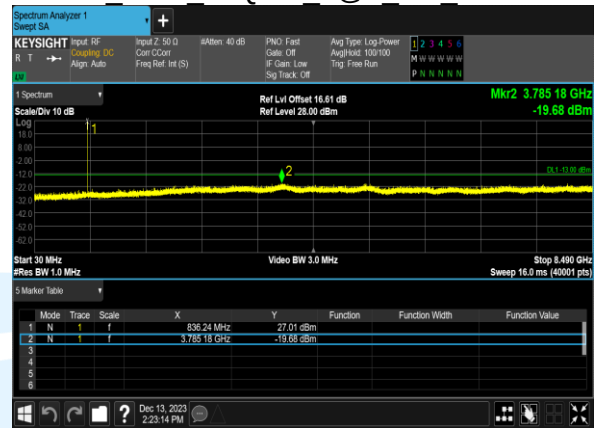
B5 1.4M 16QAM 1@0 CH 20407



B5 1.4M QPSK 1@0 CH 20525



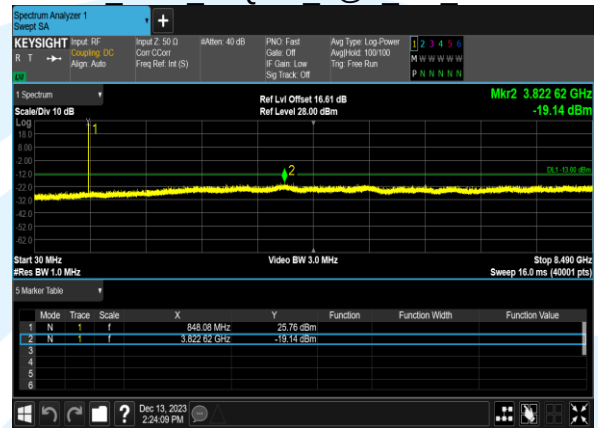
B5 1.4M 16QAM 1@0 CH 20525



B5 1.4M QPSK 1@0 CH 20643



B5 1.4M 16QAM 1@0 CH 20643

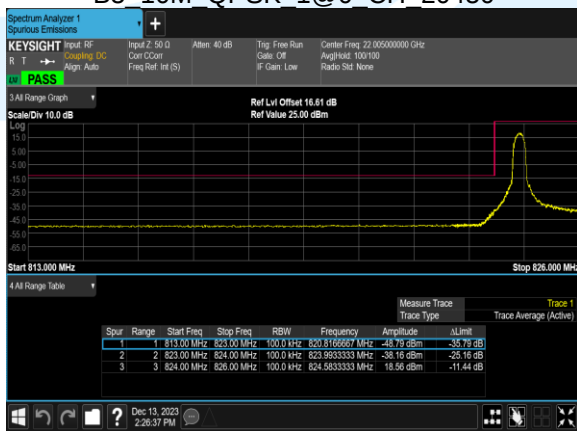


## Conducted Band Edge

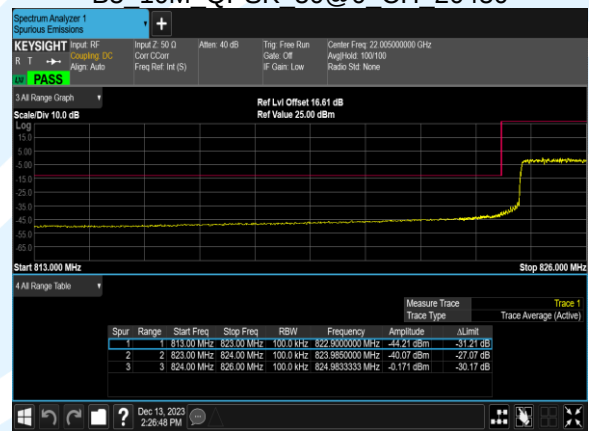
| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB   | Result    | Verdict |
|------|-----------------|---------|------------|------------|------|-----------|---------|
| 5    | 10.0            | 20450   | 829.0      | QPSK       | 1@0  | see graph | PASS    |
| 5    | 10.0            | 20450   | 829.0      | QPSK       | 50@0 | see graph | PASS    |
| 5    | 10.0            | 20450   | 829.0      | 16QAM      | 1@0  | see graph | PASS    |
| 5    | 10.0            | 20450   | 829.0      | 16QAM      | 50@0 | see graph | PASS    |
| 5    | 10.0            | 20600   | 844.0      | QPSK       | 1@49 | see graph | PASS    |
| 5    | 10.0            | 20600   | 844.0      | QPSK       | 50@0 | see graph | PASS    |
| 5    | 10.0            | 20600   | 844.0      | 16QAM      | 1@49 | see graph | PASS    |
| 5    | 10.0            | 20600   | 844.0      | 16QAM      | 50@0 | see graph | PASS    |
| 5    | 5.0             | 20425   | 826.5      | QPSK       | 1@0  | see graph | PASS    |
| 5    | 5.0             | 20425   | 826.5      | QPSK       | 25@0 | see graph | PASS    |
| 5    | 5.0             | 20425   | 826.5      | 16QAM      | 1@0  | see graph | PASS    |
| 5    | 5.0             | 20425   | 826.5      | 16QAM      | 25@0 | see graph | PASS    |
| 5    | 5.0             | 20625   | 846.5      | QPSK       | 1@24 | see graph | PASS    |
| 5    | 5.0             | 20625   | 846.5      | QPSK       | 25@0 | see graph | PASS    |
| 5    | 5.0             | 20625   | 846.5      | 16QAM      | 1@24 | see graph | PASS    |
| 5    | 5.0             | 20625   | 846.5      | 16QAM      | 25@0 | see graph | PASS    |
| 5    | 3.0             | 20415   | 825.5      | QPSK       | 1@0  | see graph | PASS    |
| 5    | 3.0             | 20415   | 825.5      | QPSK       | 15@0 | see graph | PASS    |
| 5    | 3.0             | 20415   | 825.5      | 16QAM      | 1@0  | see graph | PASS    |
| 5    | 3.0             | 20415   | 825.5      | 16QAM      | 15@0 | see graph | PASS    |
| 5    | 3.0             | 20635   | 847.5      | QPSK       | 1@14 | see graph | PASS    |
| 5    | 3.0             | 20635   | 847.5      | QPSK       | 15@0 | see graph | PASS    |
| 5    | 3.0             | 20635   | 847.5      | 16QAM      | 1@14 | see graph | PASS    |
| 5    | 3.0             | 20635   | 847.5      | 16QAM      | 15@0 | see graph | PASS    |
| 5    | 1.4             | 20407   | 824.7      | QPSK       | 1@0  | see graph | PASS    |
| 5    | 1.4             | 20407   | 824.7      | QPSK       | 6@0  | see graph | PASS    |
| 5    | 1.4             | 20407   | 824.7      | 16QAM      | 1@0  | see graph | PASS    |
| 5    | 1.4             | 20407   | 824.7      | 16QAM      | 6@0  | see graph | PASS    |
| 5    | 1.4             | 20643   | 848.3      | QPSK       | 1@5  | see graph | PASS    |
| 5    | 1.4             | 20643   | 848.3      | QPSK       | 6@0  | see graph | PASS    |
| 5    | 1.4             | 20643   | 848.3      | 16QAM      | 1@5  | see graph | PASS    |
| 5    | 1.4             | 20643   | 848.3      | 16QAM      | 6@0  | see graph | PASS    |

## Test Graphs

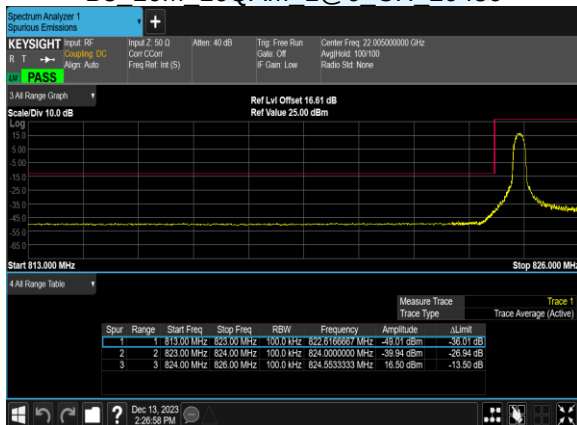
B5 10M QPSK 1@0 CH 20450



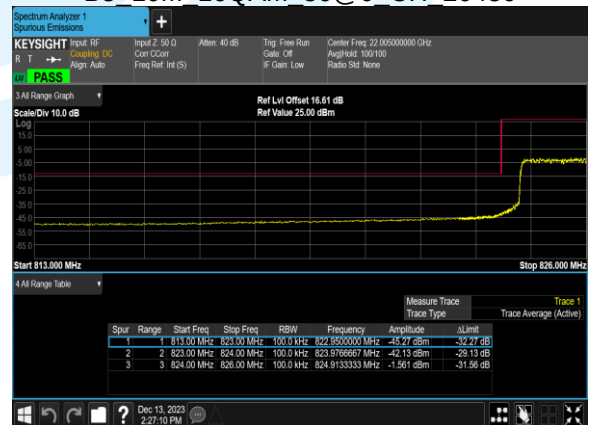
B5 10M QPSK 50@0 CH 20450



B5 10M 16QAM 1@0 CH 20450



B5 10M 16QAM 50@0 CH 20450



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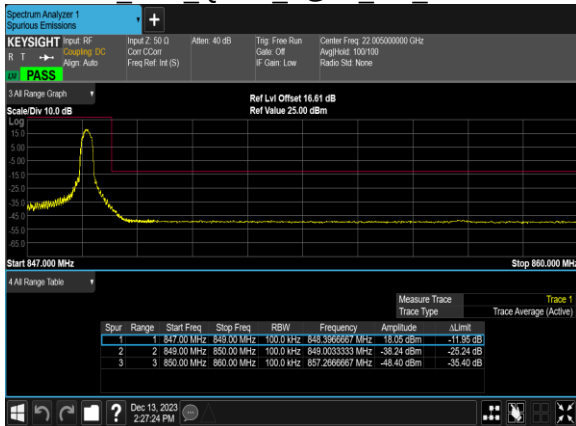
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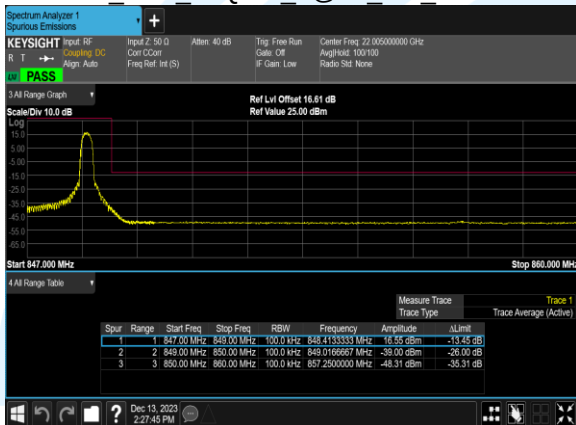
B5 10M QPSK 1@49 CH 20600



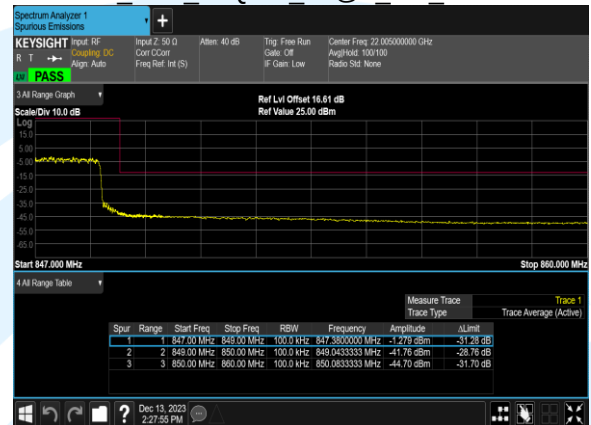
B5 10M QPSK 50@0 CH 20600



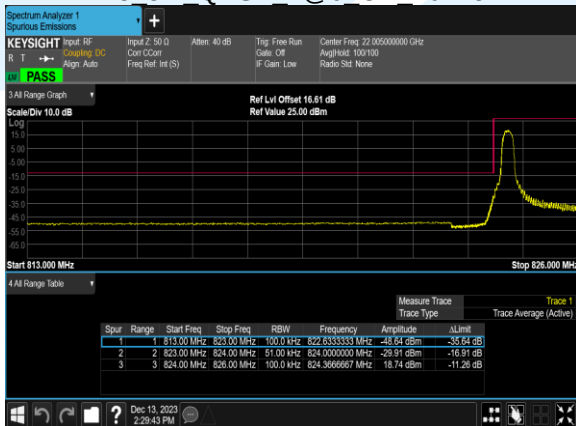
B5 10M 16QAM 1@49 CH 20600



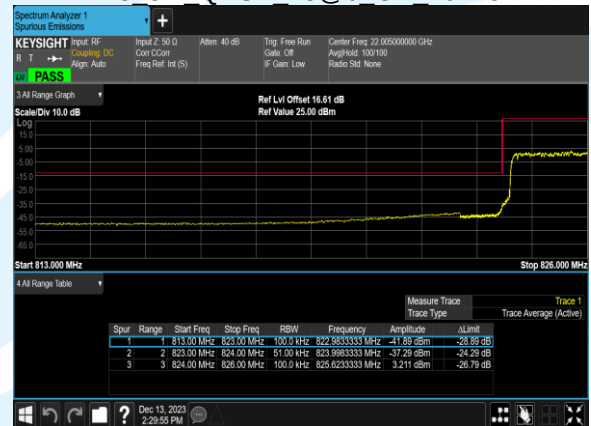
B5 10M 16QAM 50@0 CH 20600



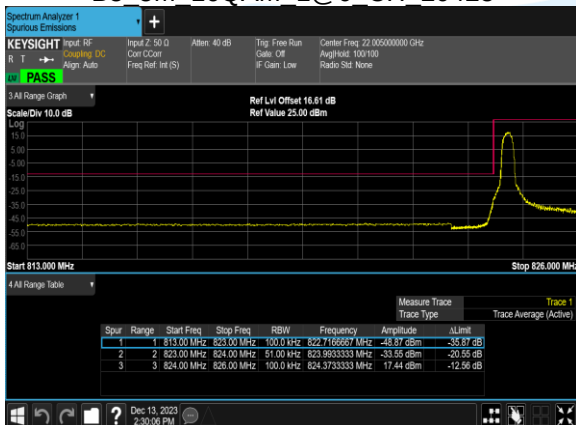
B5 5M QPSK 1@0 CH 20425



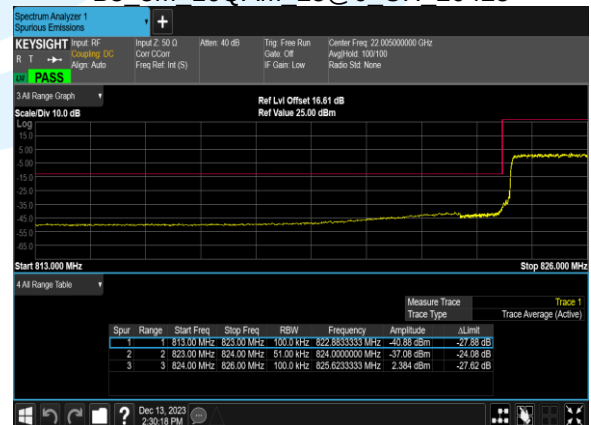
B5 5M QPSK 25@0 CH 20425



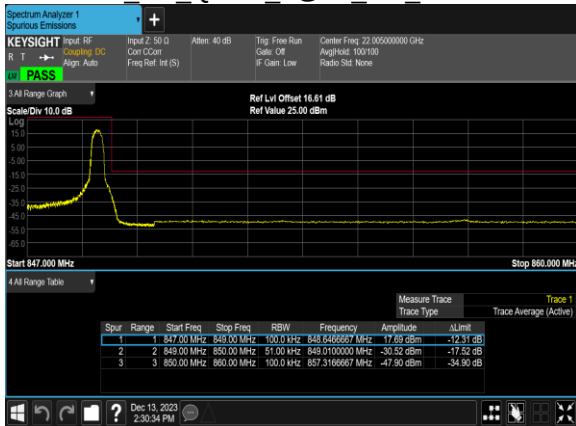
B5 5M 16QAM 1@0 CH 20425



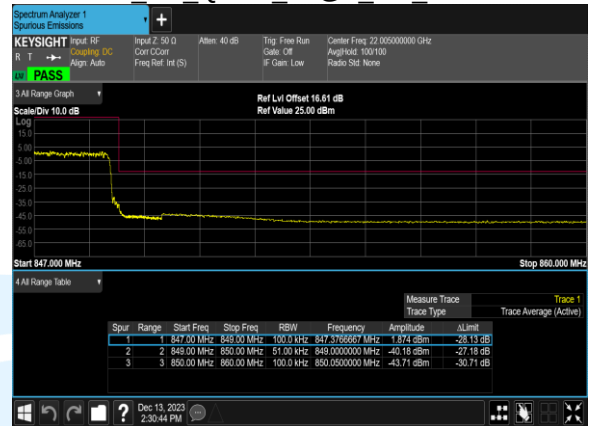
B5 5M 16QAM 25@0 CH 20425



B5 5M QPSK 1@24 CH 20625



B5 5M QPSK 25@0 CH 20625



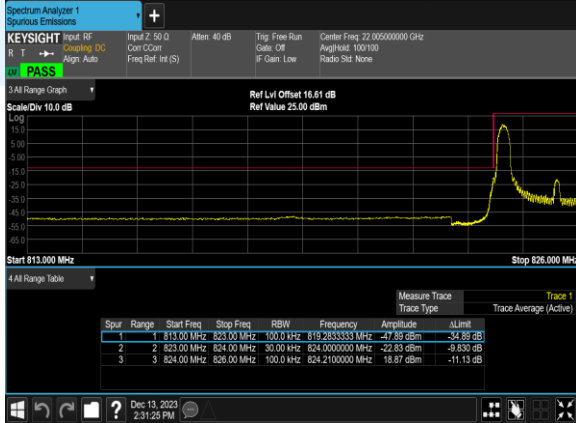
B5 5M 16QAM 1@24 CH 20625



B5 5M 16QAM 25@0 CH 20625



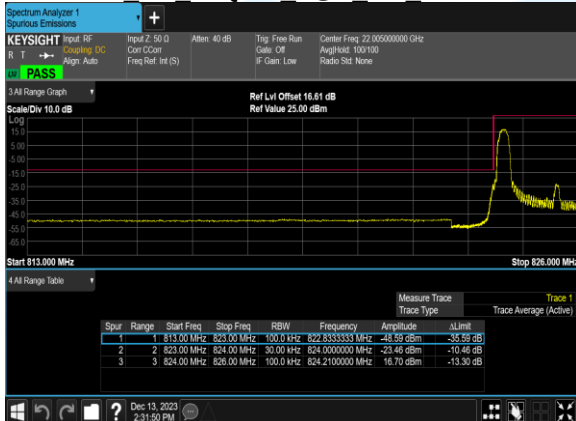
B5 3M QPSK 1@0 CH 20415



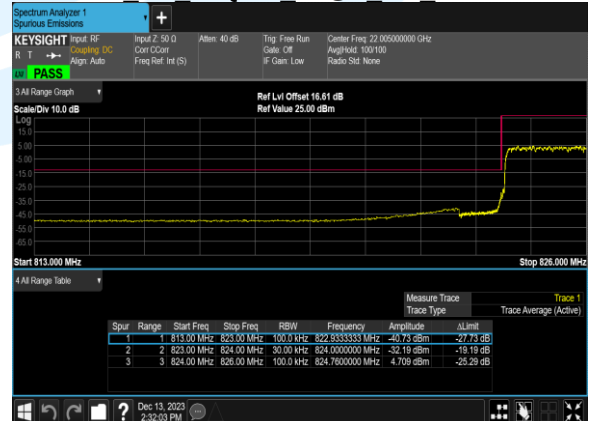
B5 3M QPSK 15@0 CH 20415



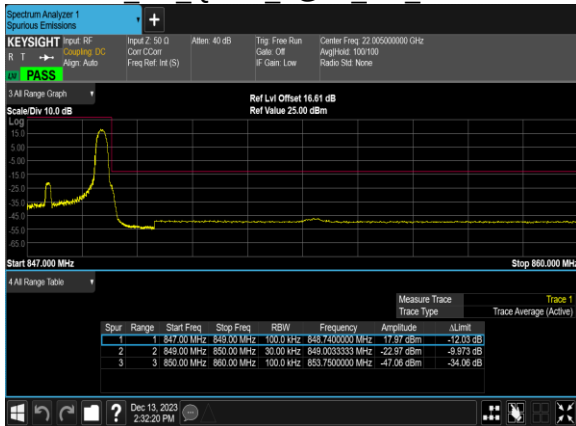
B5 3M 16QAM 1@0 CH 20415



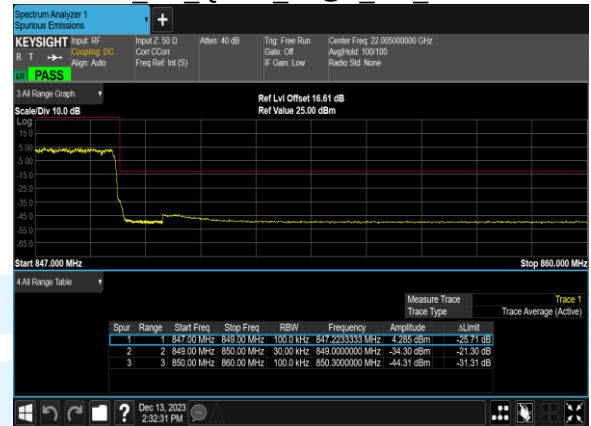
B5 3M 16QAM 15@0 CH 20415



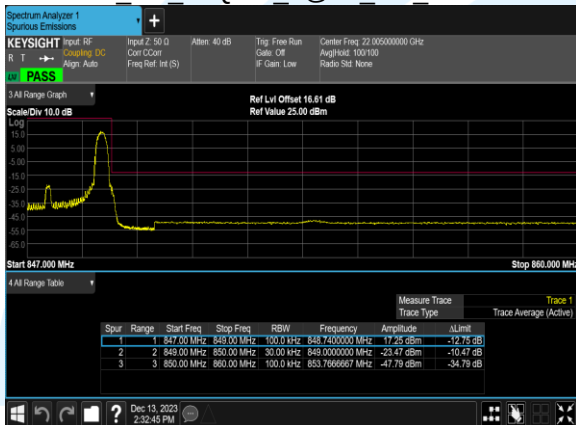
B5 3M QPSK 1@14 CH 20635



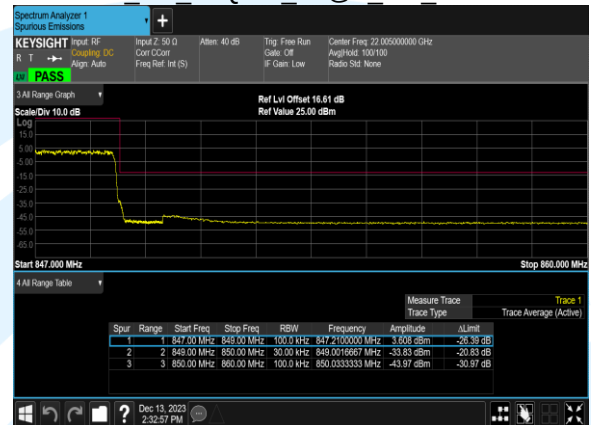
B5 3M QPSK 15@0 CH 20635



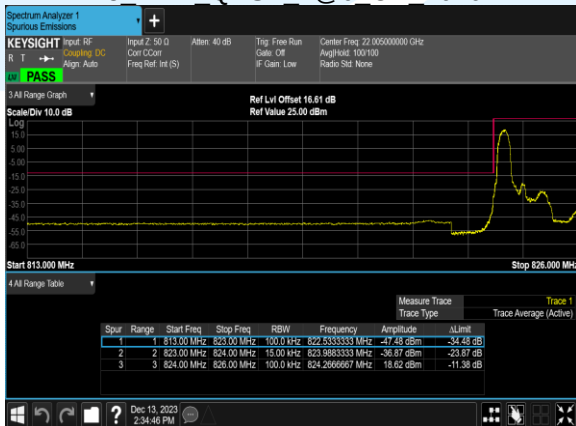
B5 3M 16QAM 1@14 CH 20635



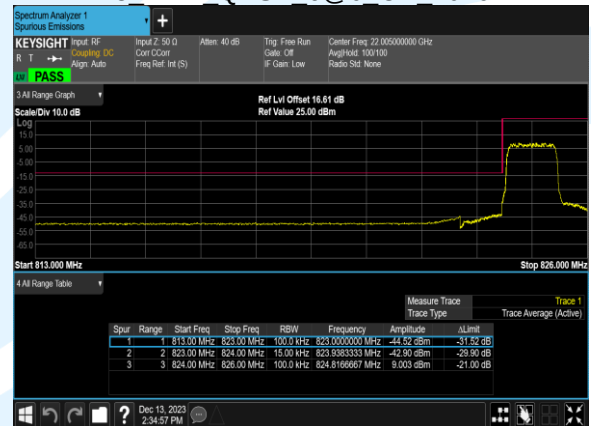
B5 3M 16QAM 15@0 CH 20635



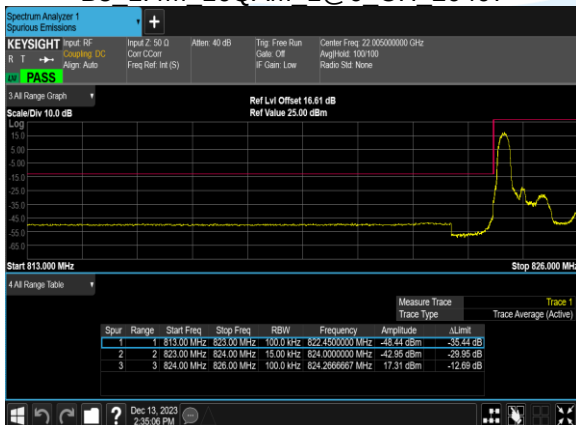
B5 1.4M QPSK 1@0 CH 20407



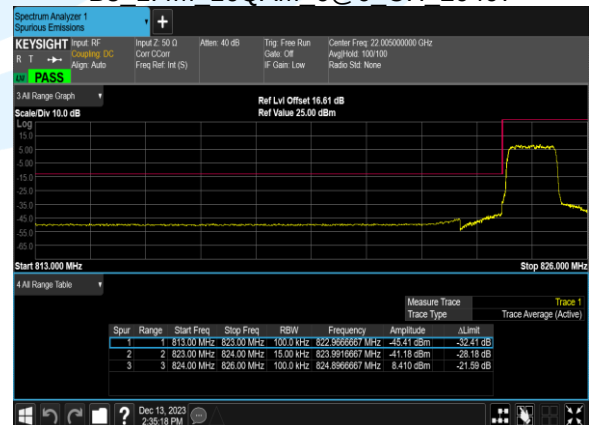
B5 1.4M QPSK 6@0 CH 20407



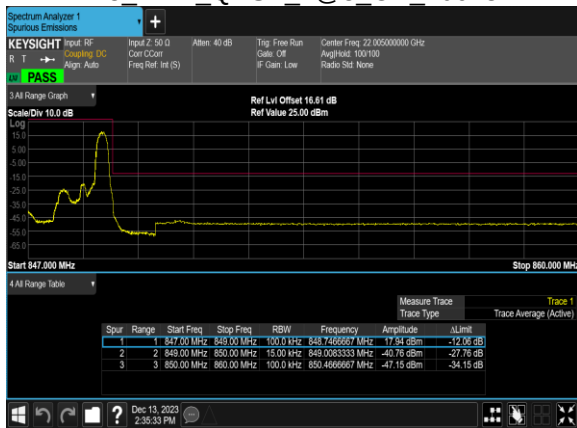
B5 1.4M 16QAM 1@0 CH 20407



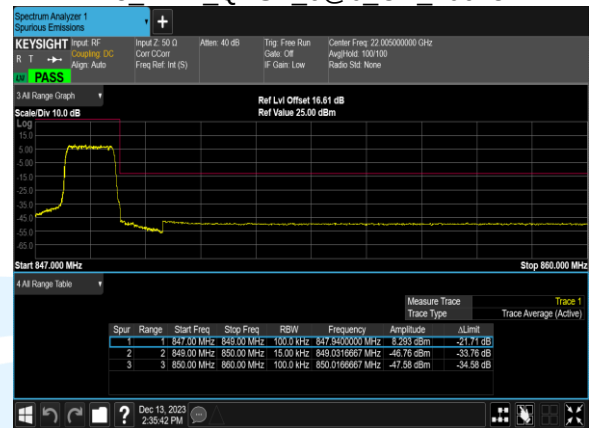
B5 1.4M 16QAM 6@0 CH 20407



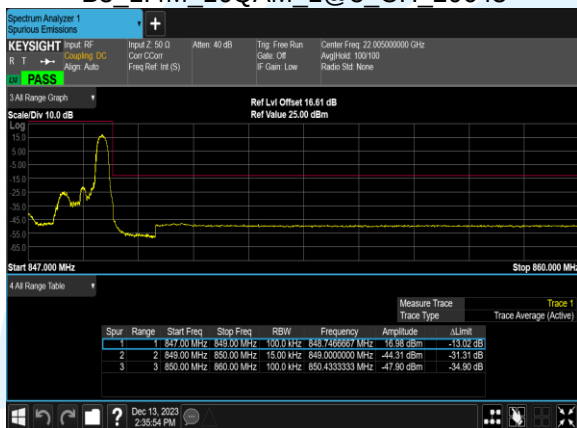
B5 1.4M QPSK 1@5 CH 20643



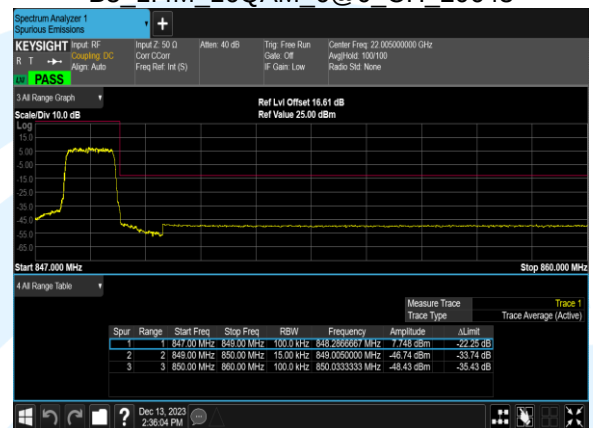
B5 1.4M QPSK 6@0 CH 20643



B5 1.4M 16QAM 1@5 CH 20643



B5 1.4M 16QAM 6@0 CH 20643



## A.4 LTE BAND 7

## Peak to Average Ratio

| Band | Bandwidth<br>(MHz) | Channel | Freq<br>(MHz) | Modulation | RB    | Result<br>(dB) | Limit<br>(dB) | Verdict |
|------|--------------------|---------|---------------|------------|-------|----------------|---------------|---------|
| 7    | 20.0               | 20850   | 2510.0        | QPSK       | 100@0 | 5.21           | 13            | PASS    |
| 7    | 20.0               | 20850   | 2510.0        | 16QAM      | 100@0 | 5.86           | 13            | PASS    |
| 7    | 20.0               | 21100   | 2535.0        | QPSK       | 100@0 | 5.32           | 13            | PASS    |
| 7    | 20.0               | 21100   | 2535.0        | 16QAM      | 100@0 | 6.01           | 13            | PASS    |
| 7    | 20.0               | 21350   | 2560.0        | QPSK       | 100@0 | 4.69           | 13            | PASS    |
| 7    | 20.0               | 21350   | 2560.0        | 16QAM      | 100@0 | 5.33           | 13            | PASS    |
| 7    | 15.0               | 20825   | 2507.5        | QPSK       | 75@0  | 5.22           | 13            | PASS    |
| 7    | 15.0               | 20825   | 2507.5        | 16QAM      | 75@0  | 5.96           | 13            | PASS    |
| 7    | 15.0               | 21100   | 2535.0        | QPSK       | 75@0  | 5.22           | 13            | PASS    |
| 7    | 15.0               | 21100   | 2535.0        | 16QAM      | 75@0  | 6.00           | 13            | PASS    |
| 7    | 15.0               | 21375   | 2562.5        | QPSK       | 75@0  | 4.71           | 13            | PASS    |
| 7    | 15.0               | 21375   | 2562.5        | 16QAM      | 75@0  | 5.42           | 13            | PASS    |
| 7    | 10.0               | 20800   | 2505.0        | QPSK       | 50@0  | 5.41           | 13            | PASS    |
| 7    | 10.0               | 20800   | 2505.0        | 16QAM      | 50@0  | 6.08           | 13            | PASS    |
| 7    | 10.0               | 21100   | 2535.0        | QPSK       | 50@0  | 5.39           | 13            | PASS    |
| 7    | 10.0               | 21100   | 2535.0        | 16QAM      | 50@0  | 6.14           | 13            | PASS    |
| 7    | 10.0               | 21400   | 2565.0        | QPSK       | 50@0  | 4.62           | 13            | PASS    |
| 7    | 10.0               | 21400   | 2565.0        | 16QAM      | 50@0  | 5.29           | 13            | PASS    |
| 7    | 5.0                | 20775   | 2502.5        | QPSK       | 25@0  | 5.36           | 13            | PASS    |
| 7    | 5.0                | 20775   | 2502.5        | 16QAM      | 25@0  | 5.99           | 13            | PASS    |
| 7    | 5.0                | 21100   | 2535.0        | QPSK       | 25@0  | 5.40           | 13            | PASS    |
| 7    | 5.0                | 21100   | 2535.0        | 16QAM      | 25@0  | 6.06           | 13            | PASS    |
| 7    | 5.0                | 21425   | 2567.5        | QPSK       | 25@0  | 4.66           | 13            | PASS    |
| 7    | 5.0                | 21425   | 2567.5        | 16QAM      | 25@0  | 5.25           | 13            | PASS    |

## Test Graphs

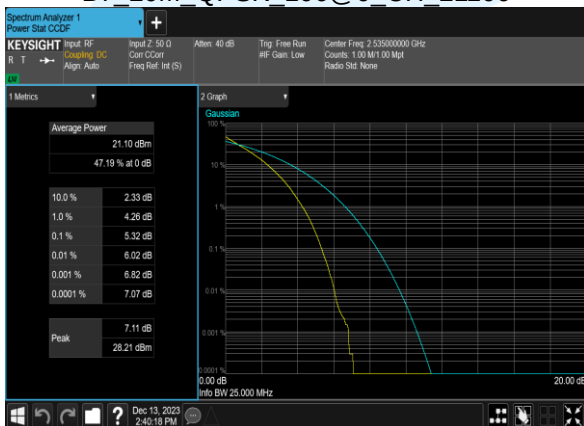
B7 20M QPSK 100@0 CH 20850



B7 20M 16QAM 100@0 CH 20850



B7 20M QPSK 100@0 CH 21100



B7 20M 16QAM 100@0 CH 21100

