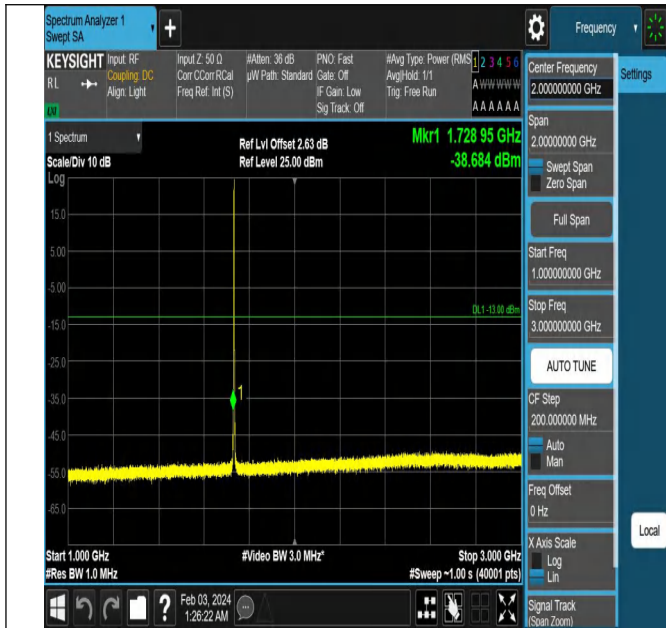
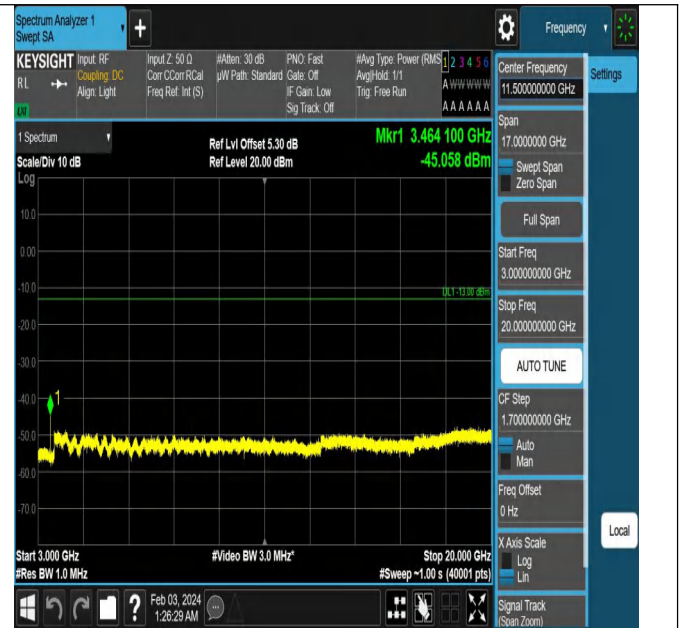




Band4\_1.4MHz\_QPSK\_20175\_1RB#0\_1000~3000\_1000~300

0



Band4\_1.4MHz\_QPSK\_20175\_1RB#0\_3000~20000\_3000~20000

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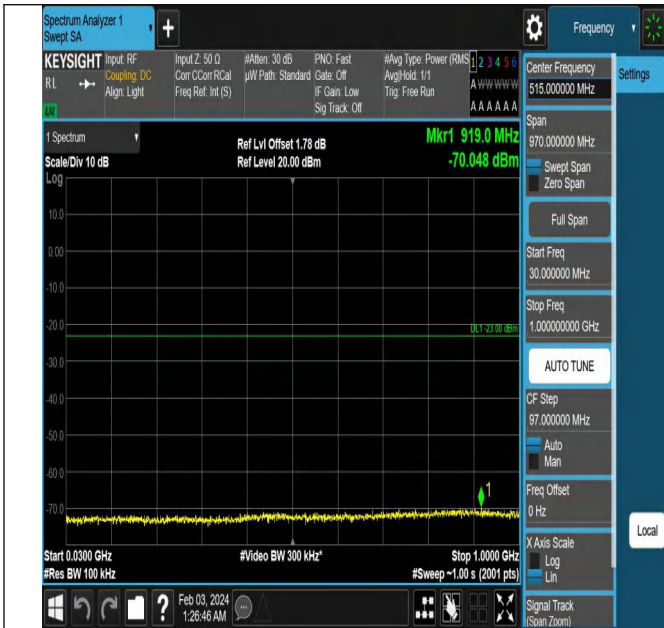


Band4\_1.4MHz\_QPSK\_20393\_1RB#0\_0.009~0.15\_0.009~0.1

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Band4\_1.4MHz\_QPSK\_20393\_1RB#0\_0.15~30\_0.15~30

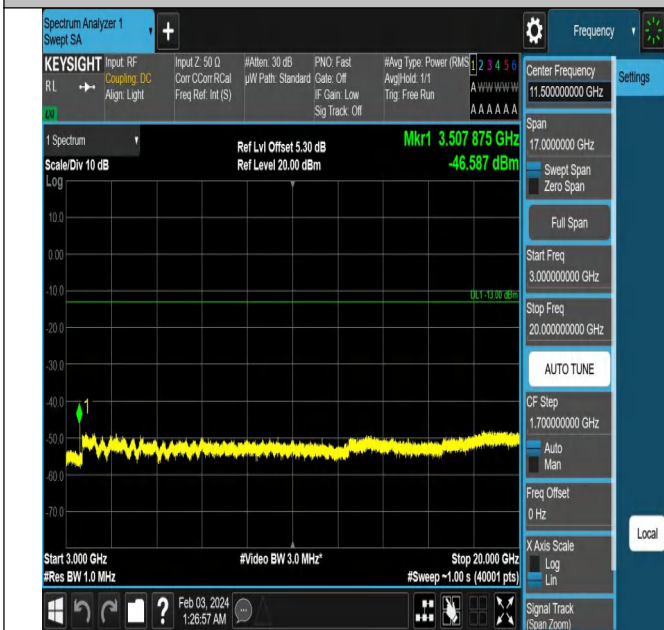


Band4\_1.4MHz\_QPSK\_20393\_1RB#0\_30~1000\_30~1000

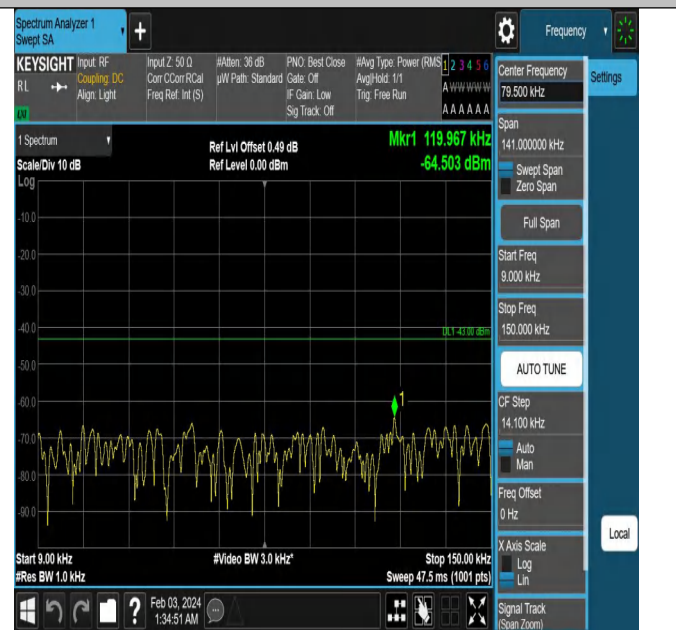


Band4\_1.4MHz\_QPSK\_20393\_1RB#0\_1000~3000\_1000~300

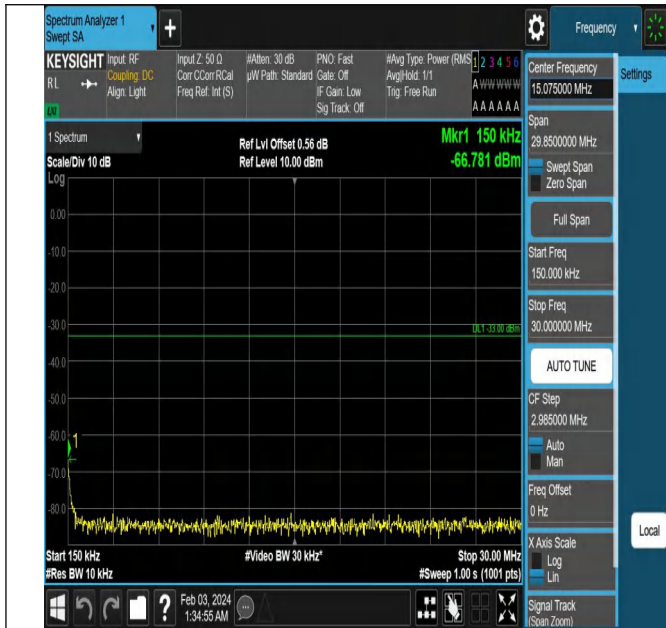
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Band4\_1.4MHz\_QPSK\_20393\_1RB#0\_3000~20000\_3000~20000



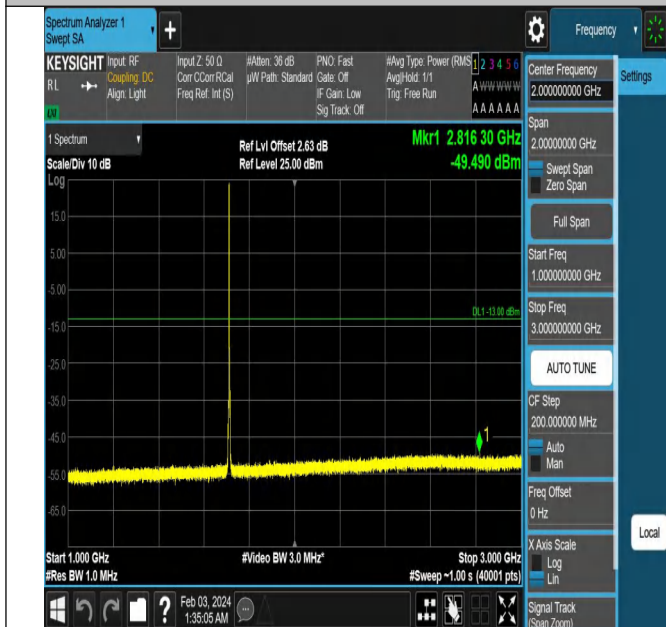
Band4\_3MHz\_QPSK\_19965\_1RB#0\_0.009~0.15\_0.009~0.15



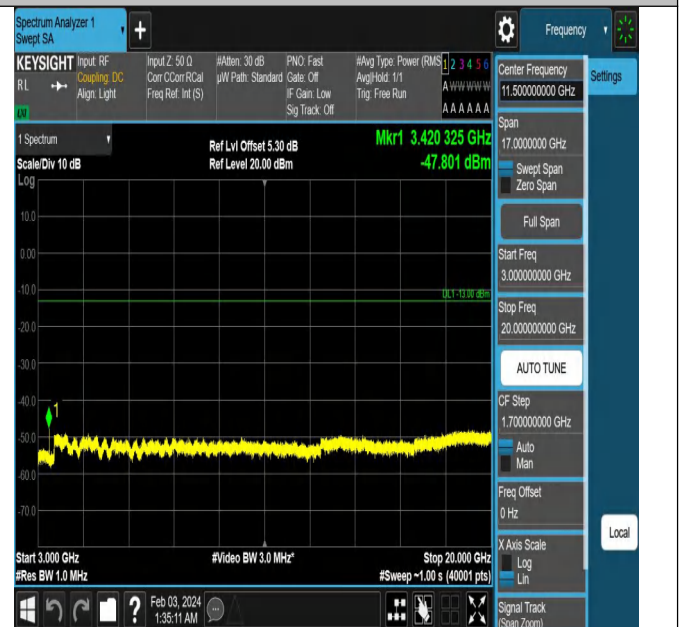
Band4\_3MHz\_QPSK\_19965\_1RB#0\_0.15~30\_0.15~30



Band4\_3MHz\_QPSK\_19965\_1RB#0\_30~1000\_30~1000



Band4\_3MHz\_QPSK\_19965\_1RB#0\_1000~3000\_1000~3000



Band4\_3MHz\_QPSK\_19965\_1RB#0\_3000~20000\_3000~2000



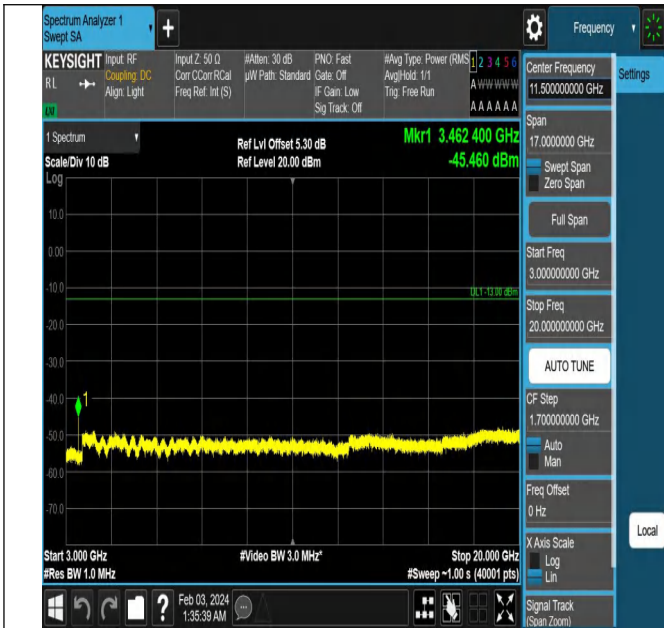
Band4\_3MHz\_QPSK\_20175\_1RB#0\_0.009~0.15\_0.009~0.15

Band4\_3MHz\_QPSK\_20175\_1RB#0\_0.15~30\_0.15~30



Band4\_3MHz\_QPSK\_20175\_1RB#0\_30~1000\_30~1000

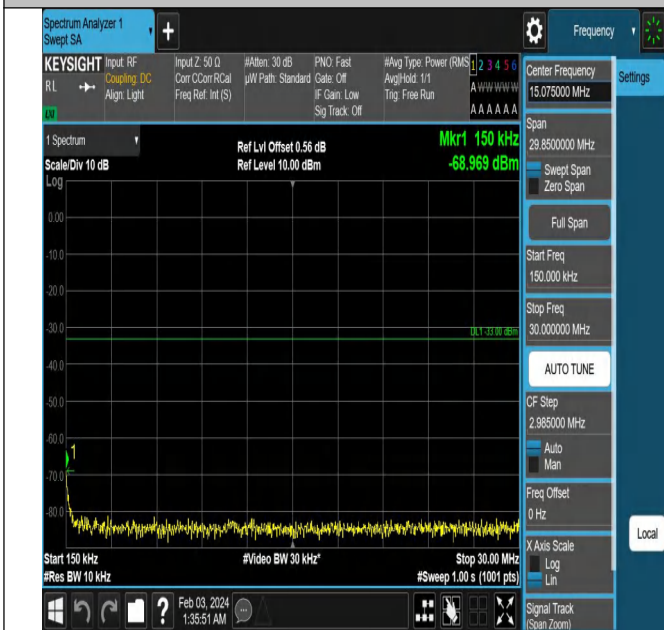
Band4\_3MHz\_QPSK\_20175\_1RB#0\_1000~3000\_1000~3000



Band4\_3MHz\_QPSK\_20175\_1RB#0\_3000~20000\_3000~20000



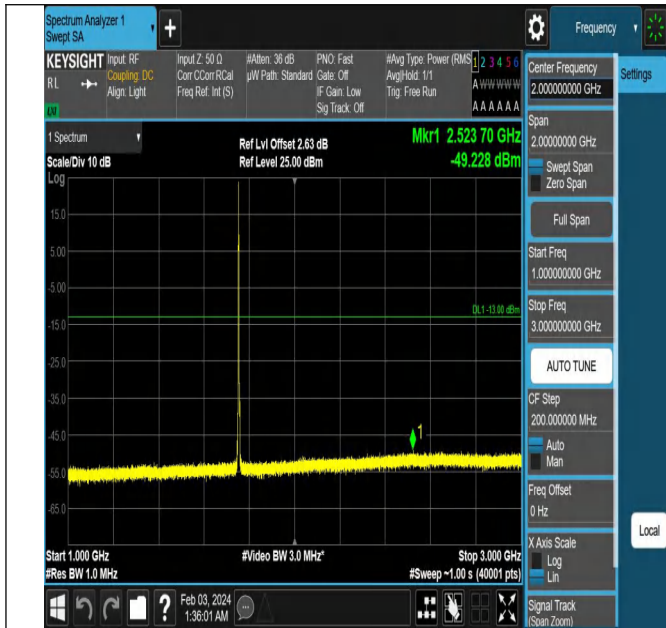
Band4\_3MHz\_QPSK\_20385\_1RB#0\_0.009~0.15\_0.009~0.15



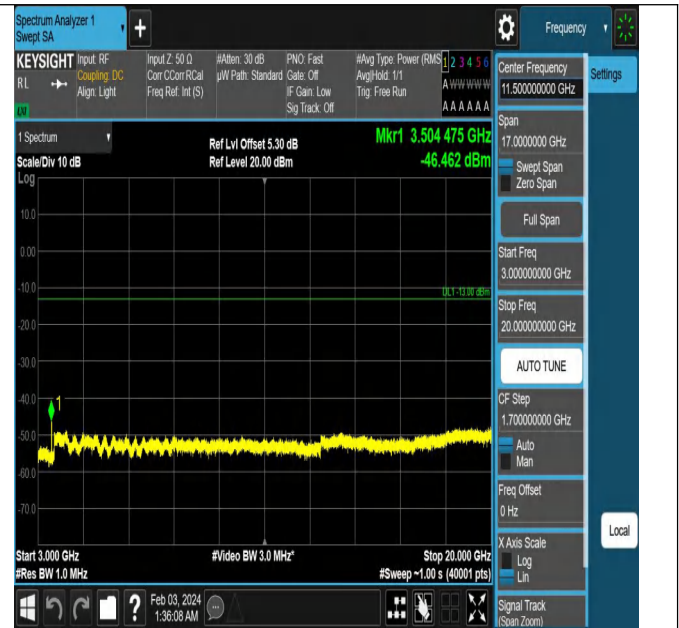
Band4\_3MHz\_QPSK\_20385\_1RB#0\_0.15~30\_0.15~30



Band4\_3MHz\_QPSK\_20385\_1RB#0\_30~1000\_30~1000



Band4\_3MHz\_QPSK\_20385\_1RB#0\_1000~3000\_1000~3000



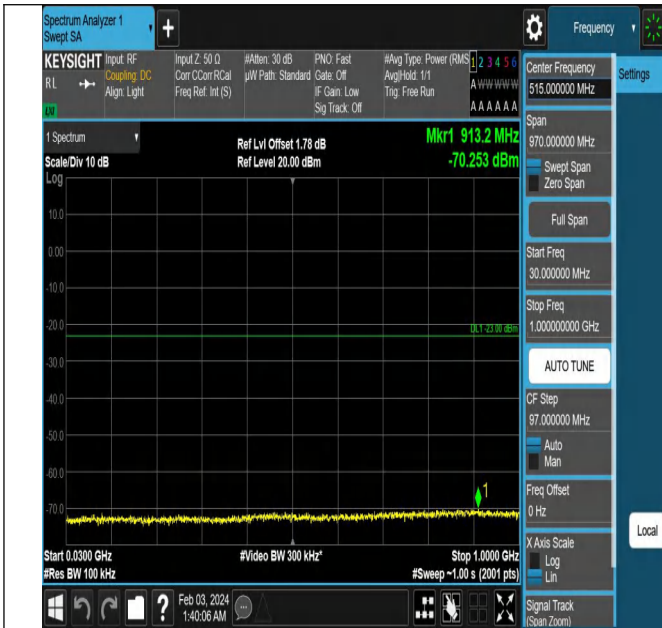
Band4\_3MHz\_QPSK\_20385\_1RB#0\_3000~20000\_3000~20000



Band4\_5MHz\_QPSK\_19975\_1RB#0\_0.009~0.15\_0.009~0.15



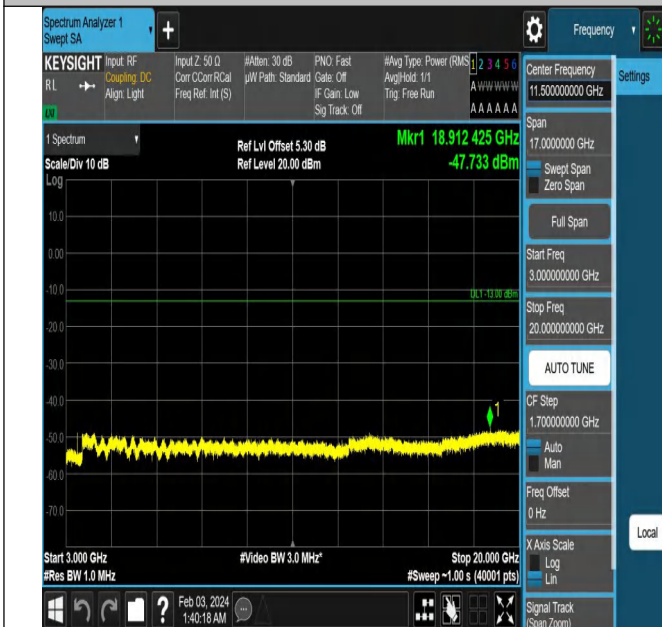
Band4\_5MHz\_QPSK\_19975\_1RB#0\_0.15~30\_0.15~30



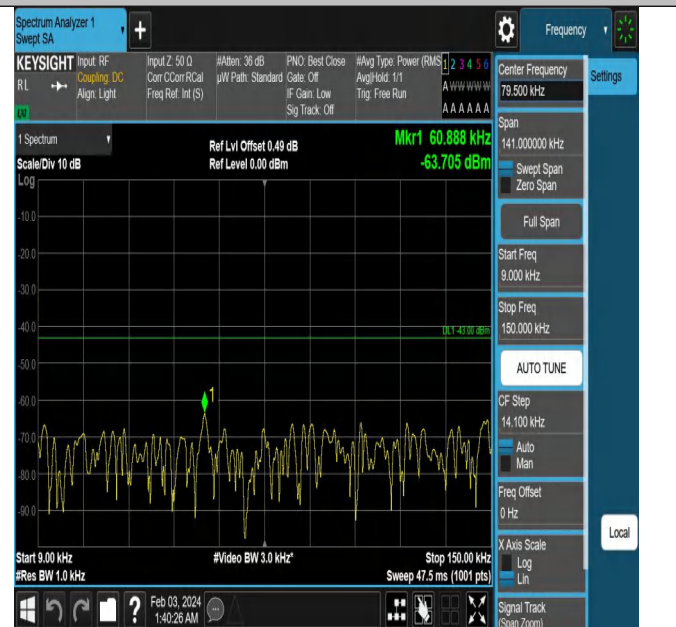
Band4\_5MHz\_QPSK\_19975\_1RB#0\_30~1000\_30~1000



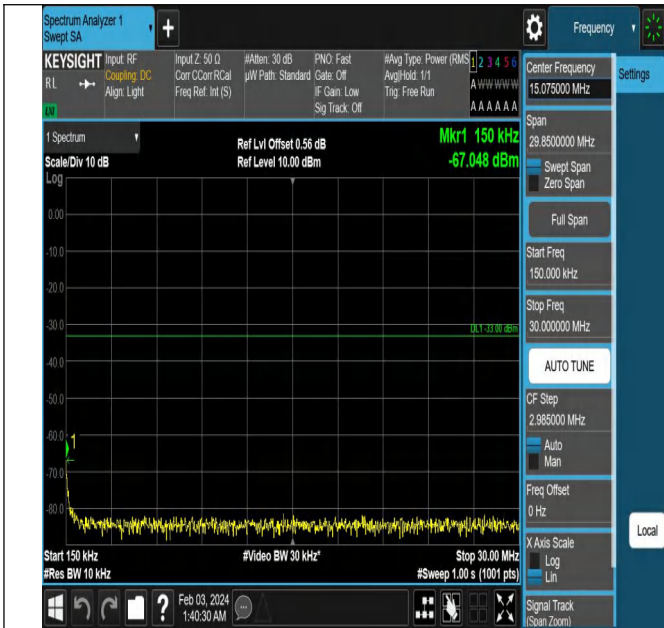
Band4\_5MHz\_QPSK\_19975\_1RB#0\_1000~3000\_1000~3000



Band4\_5MHz\_QPSK\_19975\_1RB#0\_3000~20000\_3000~200



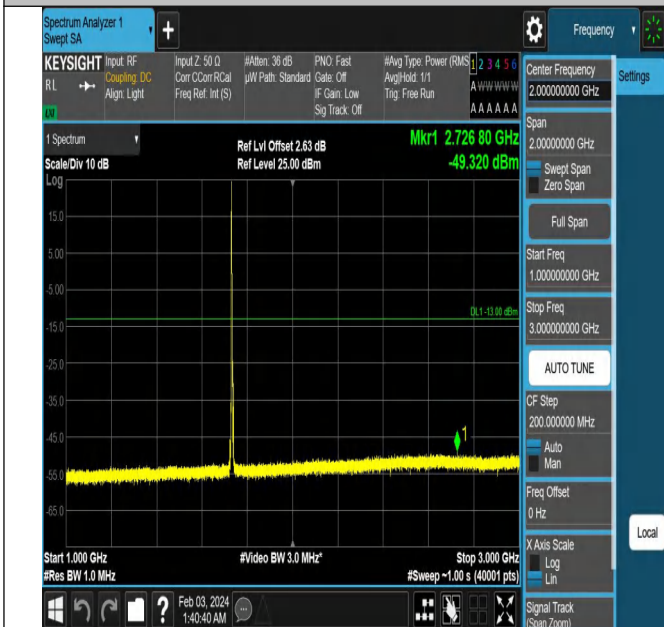
Band4\_5MHz\_QPSK\_20175\_1RB#0\_0.009~0.15\_0.009~0.15



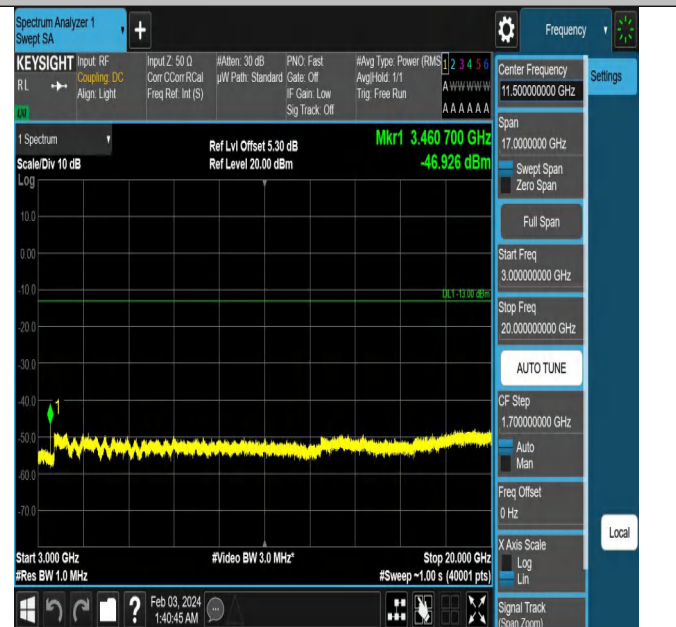
Band4\_5MHz\_QPSK\_20175\_1RB#0\_0.15~30\_0.15~30



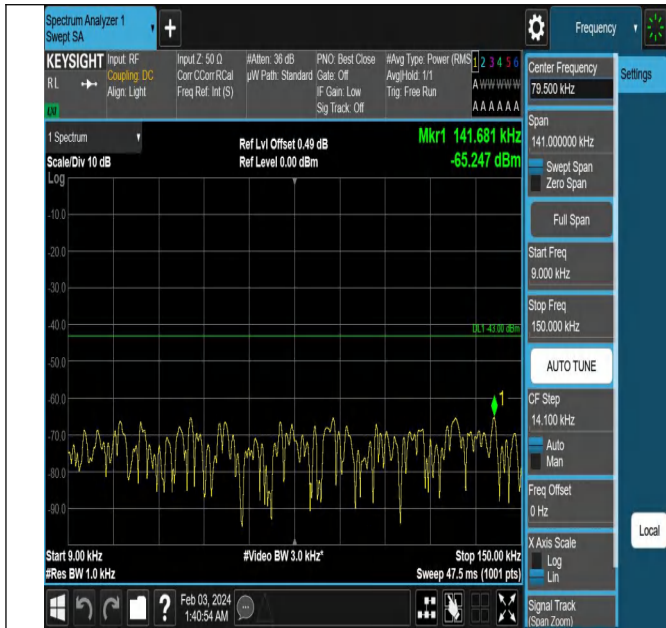
Band4\_5MHz\_QPSK\_20175\_1RB#0\_30~1000\_30~1000



Band4\_5MHz\_QPSK\_20175\_1RB#0\_1000~3000\_1000~3000

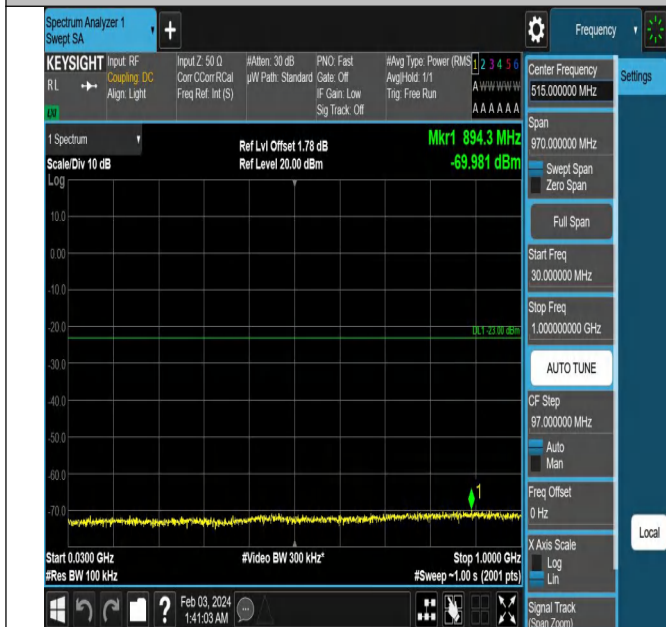


Band4\_5MHz\_QPSK\_20175\_1RB#0\_3000~20000\_3000~20000



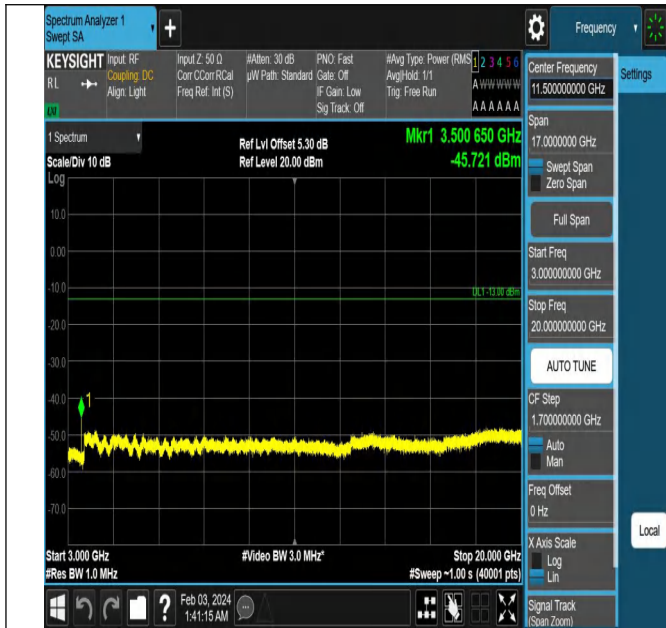
Band4\_5MHz\_QPSK\_20375\_1RB#0\_0.009~0.15\_0.009~0.15

Band4\_5MHz\_QPSK\_20375\_1RB#0\_0.15~30\_0.15~30



Band4\_5MHz\_QPSK\_20375\_1RB#0\_30~1000\_30~1000

Band4\_5MHz\_QPSK\_20375\_1RB#0\_1000~3000\_1000~3000



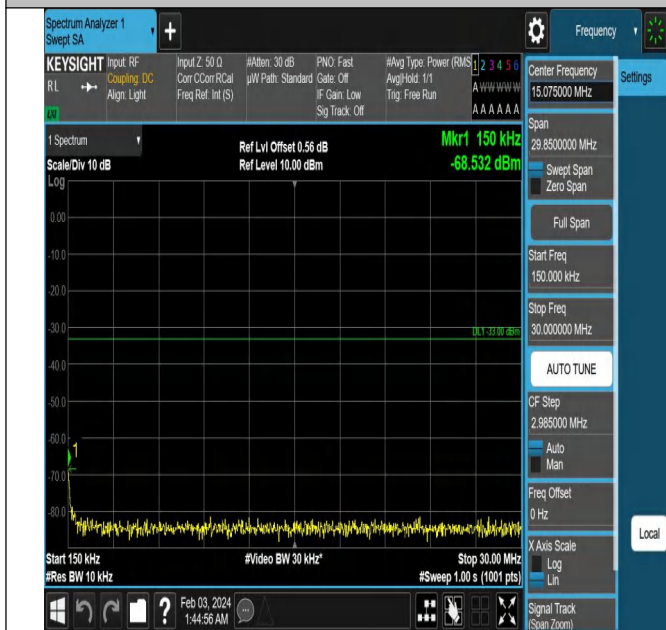
Band4\_5MHz\_QPSK\_20375\_1RB#0\_3000~20000\_3000~200

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Band4\_10MHz\_QPSK\_20000\_1RB#0\_0.009~0.15\_0.009~0.1

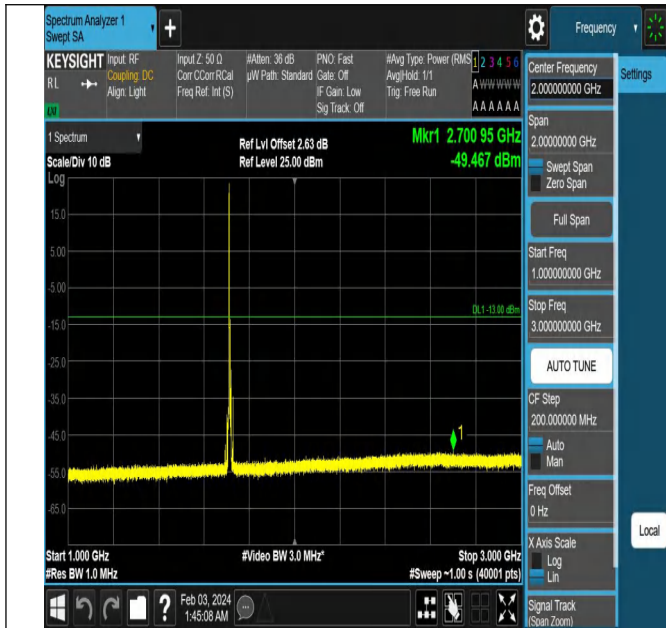
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Band4\_10MHz\_QPSK\_20000\_1RB#0\_0.15~30\_0.15~30

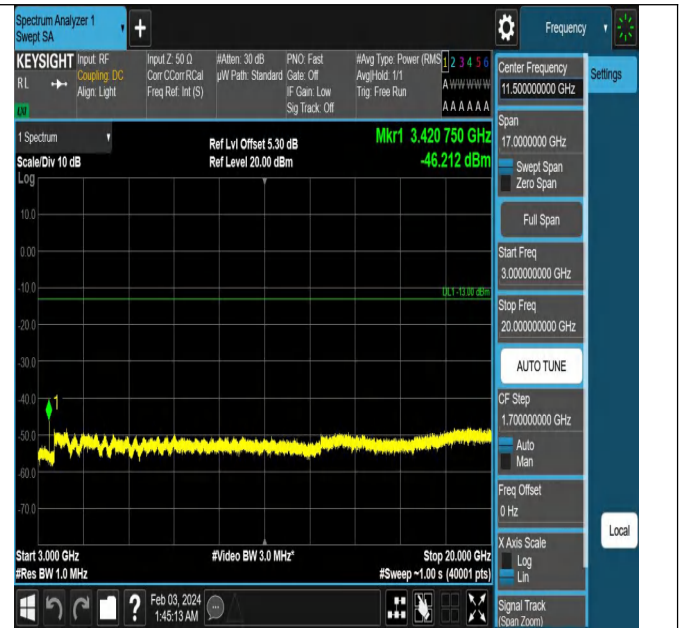


Band4\_10MHz\_QPSK\_20000\_1RB#0\_30~1000\_30~1000



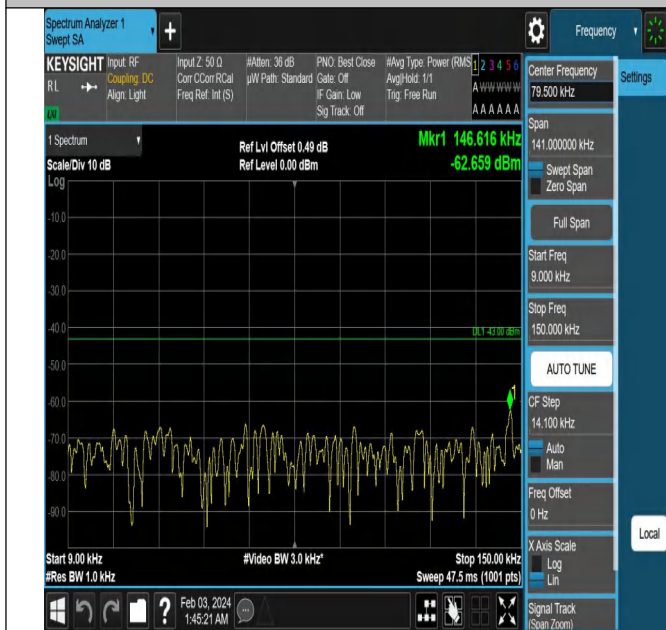
Band4\_10MHz\_QPSK\_20000\_1RB#0\_1000~3000\_1000~300

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Band4\_10MHz\_QPSK\_20000\_1RB#0\_3000~20000\_3000~20

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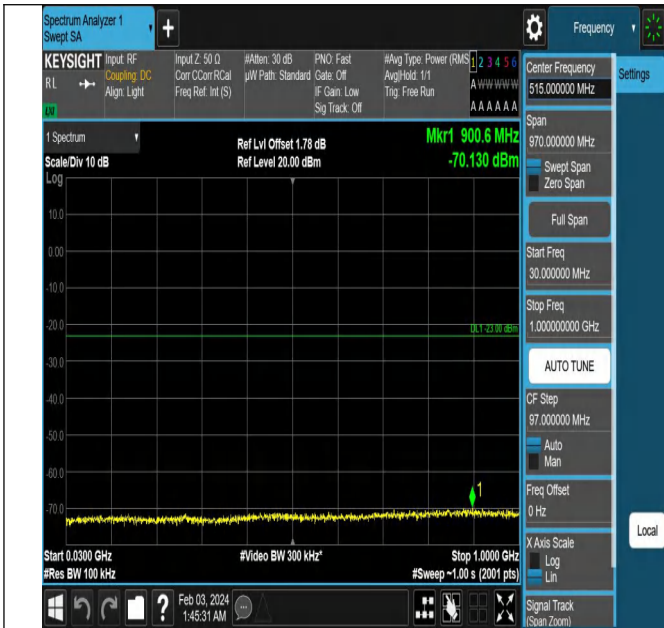


Band4\_10MHz\_QPSK\_20175\_1RB#0\_0.009~0.15\_0.009~0.1

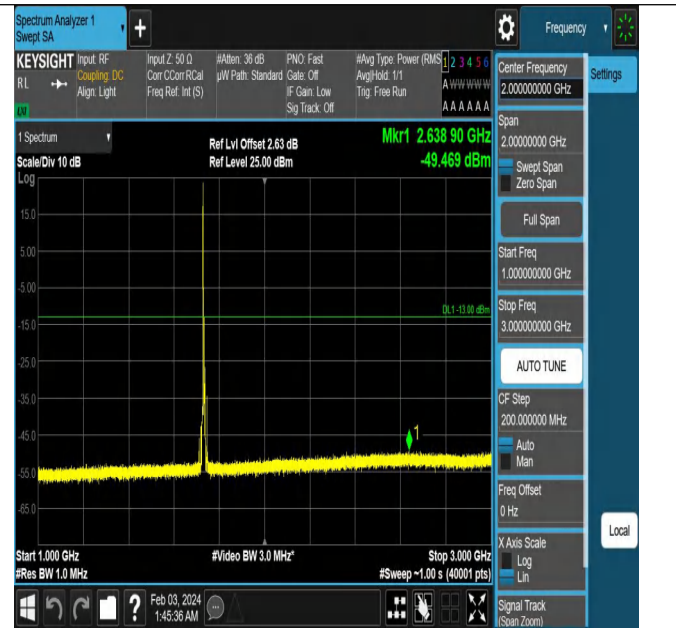
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Band4\_10MHz\_QPSK\_20175\_1RB#0\_0.15~30\_0.15~30

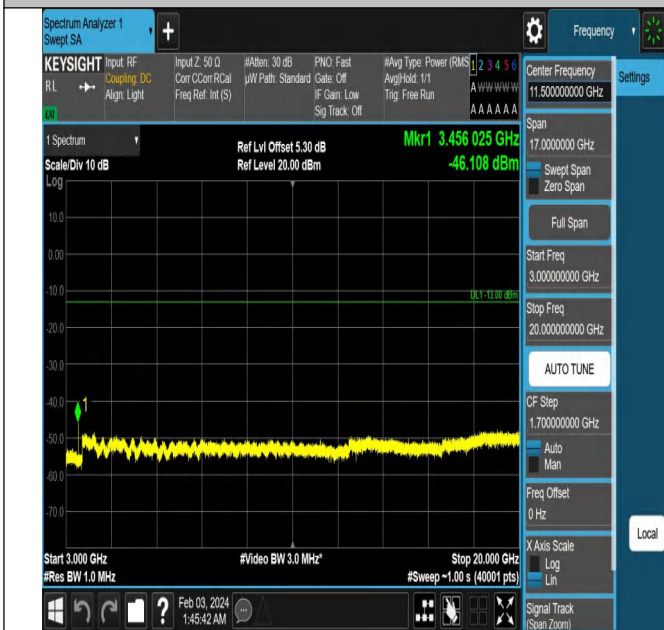


Band4\_10MHz\_QPSK\_20175\_1RB#0\_30~1000\_30~1000



Band4\_10MHz\_QPSK\_20175\_1RB#0\_1000~3000\_1000~300

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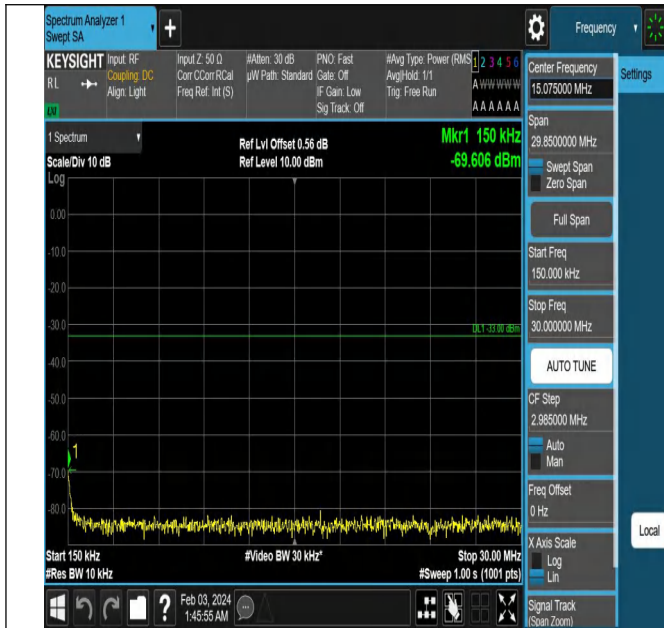
Band4\_10MHz\_QPSK\_20175\_1RB#0\_3000~20000\_3000~20

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Band4\_10MHz\_QPSK\_20350\_1RB#0\_0.009~0.15\_0.009~0.1

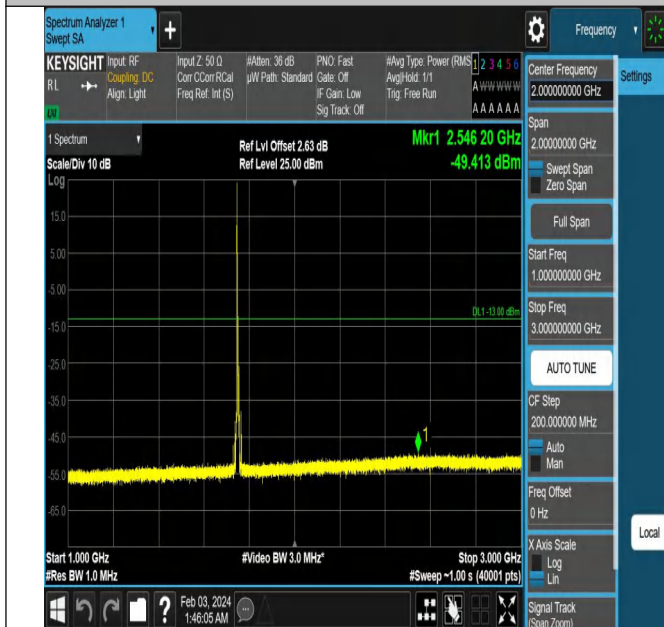
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Band4\_10MHz\_QPSK\_20350\_1RB#0\_0.15~30\_0.15~30

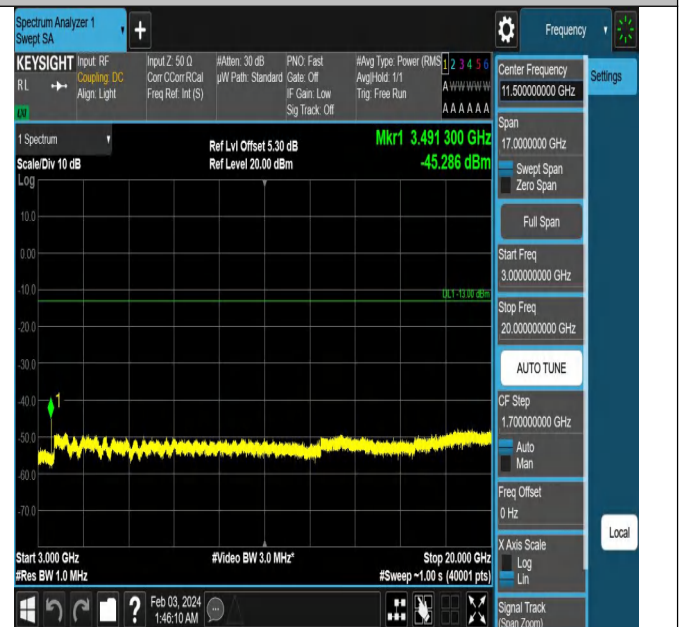


Band4\_10MHz\_QPSK\_20350\_1RB#0\_30~1000\_30~1000



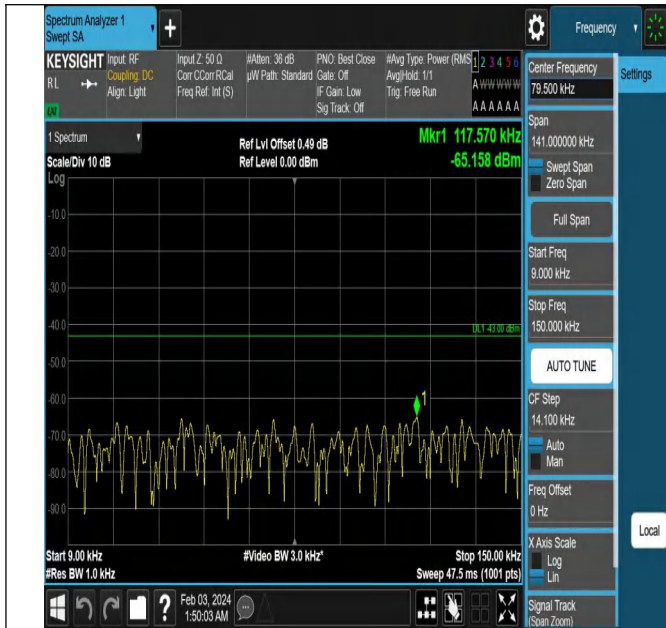
Band4\_10MHz\_QPSK\_20350\_1RB#0\_1000~3000\_1000~300

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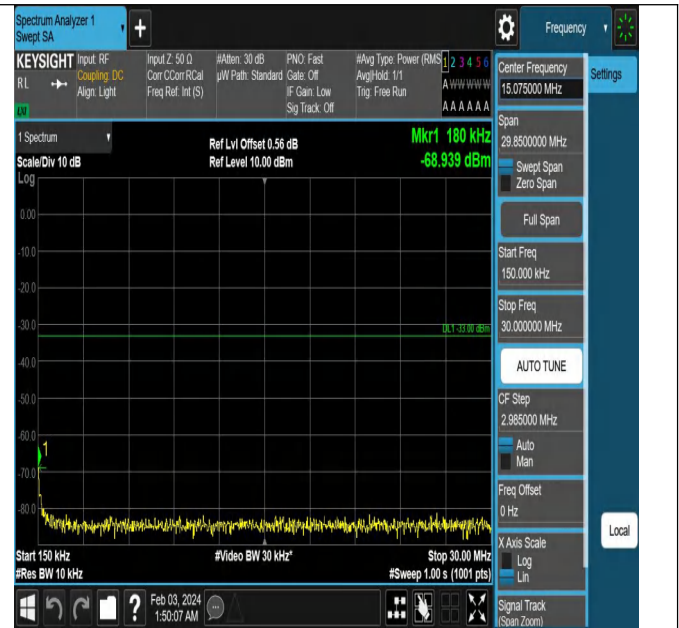
Band4\_10MHz\_QPSK\_20350\_1RB#0\_3000~20000\_3000~20

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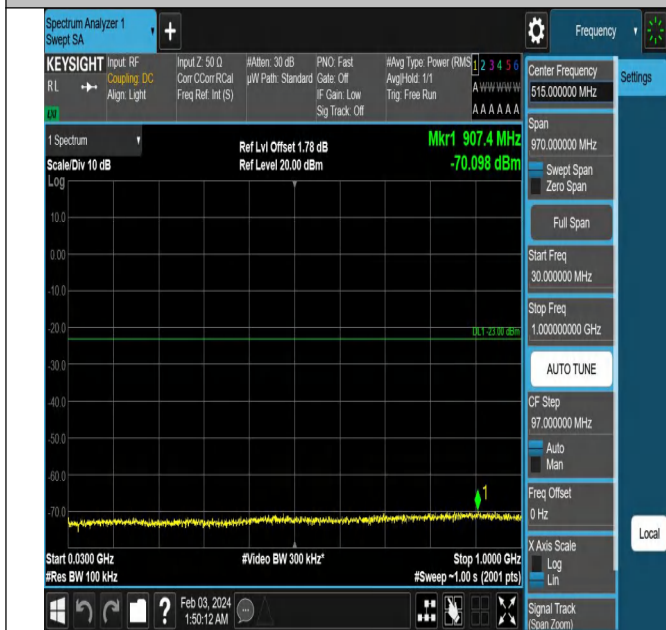


Band4\_15MHz\_QPSK\_20025\_1RB#0\_0.009~0.15\_0.009~0.1

5



Band4\_15MHz\_QPSK\_20025\_1RB#0\_0.15~30\_0.15~30

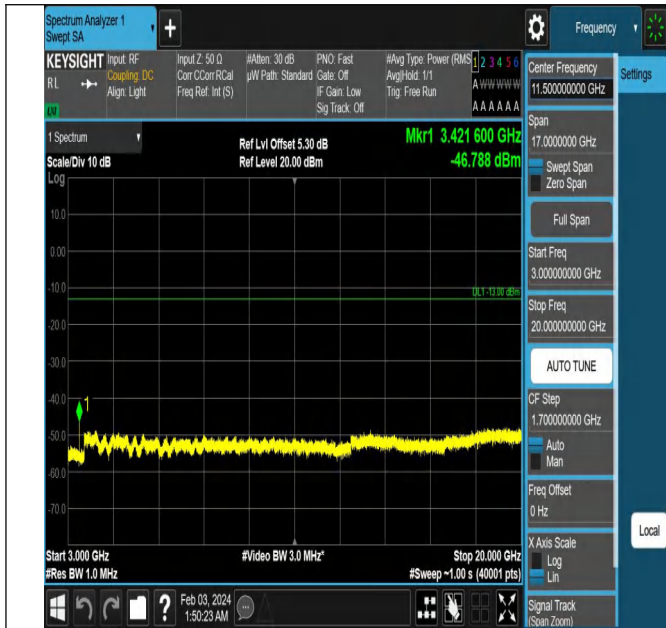


Band4\_15MHz\_QPSK\_20025\_1RB#0\_30~1000\_30~1000



Band4\_15MHz\_QPSK\_20025\_1RB#0\_1000~3000\_1000~300

0



Band4\_15MHz\_QPSK\_20025\_1RB#0\_3000~20000\_3000~20000



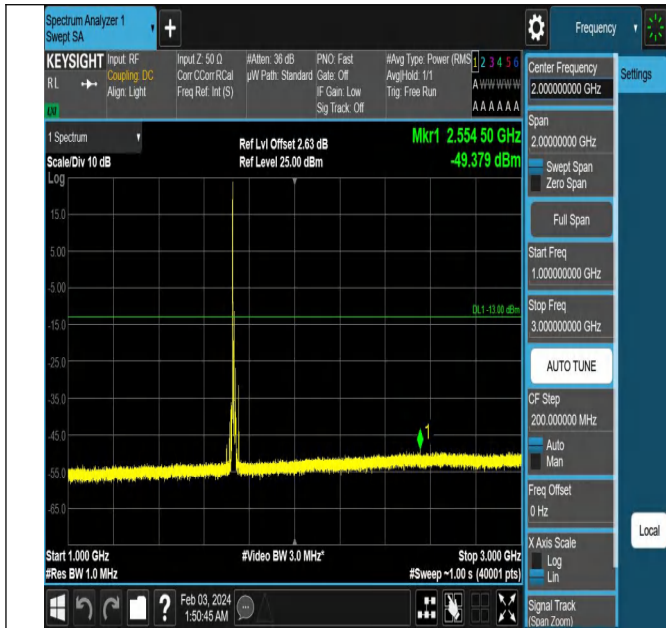
Band4\_15MHz\_QPSK\_20175\_1RB#0\_0.009~0.15\_0.009~0.15



Band4\_15MHz\_QPSK\_20175\_1RB#0\_0.15~30\_0.15~30

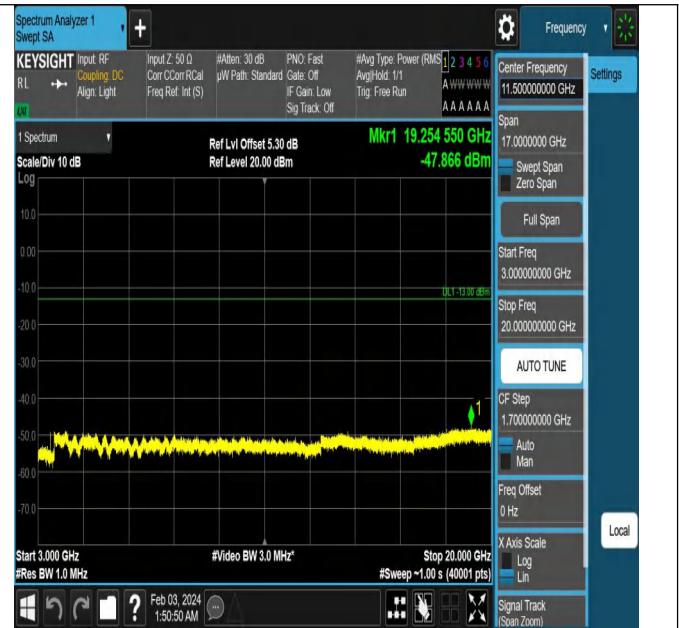


Band4\_15MHz\_QPSK\_20175\_1RB#0\_30~1000\_30~1000



Band4\_15MHz\_QPSK\_20175\_1RB#0\_1000~3000\_1000~300

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Band4\_15MHz\_QPSK\_20175\_1RB#0\_3000~20000\_3000~20

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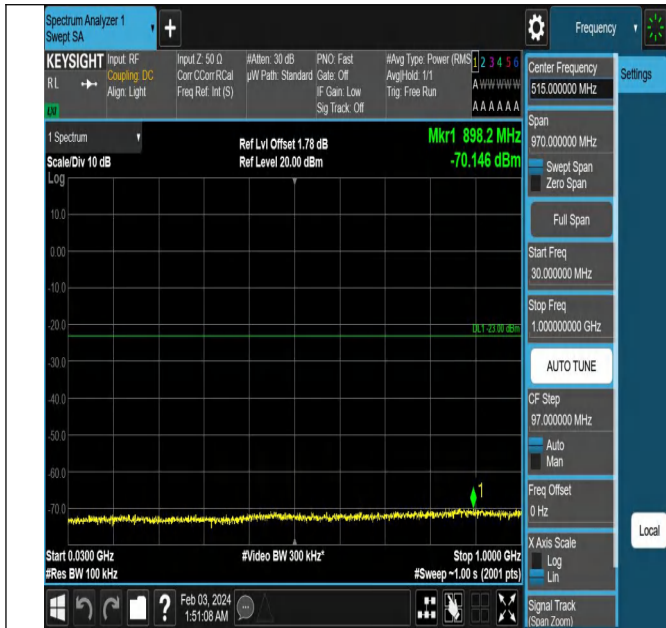


Band4\_15MHz\_QPSK\_20325\_1RB#0\_0.009~0.15\_0.009~0.1

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Band4\_15MHz\_QPSK\_20325\_1RB#0\_0.15~30\_0.15~30

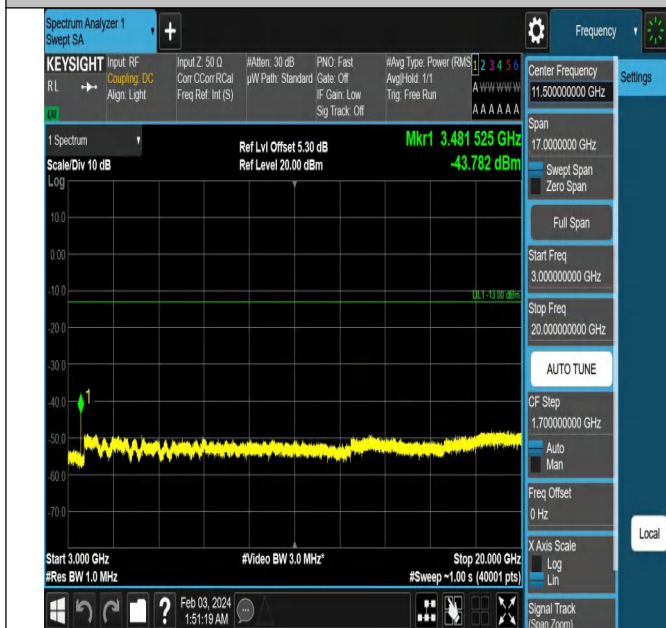


Band4\_15MHz\_QPSK\_20325\_1RB#0\_30~1000\_30~1000



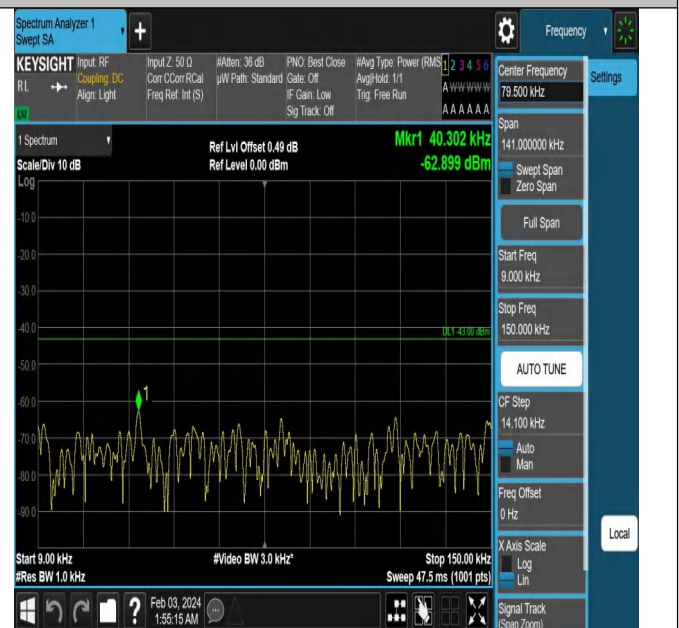
Band4\_15MHz\_QPSK\_20325\_1RB#0\_1000~3000\_1000~300

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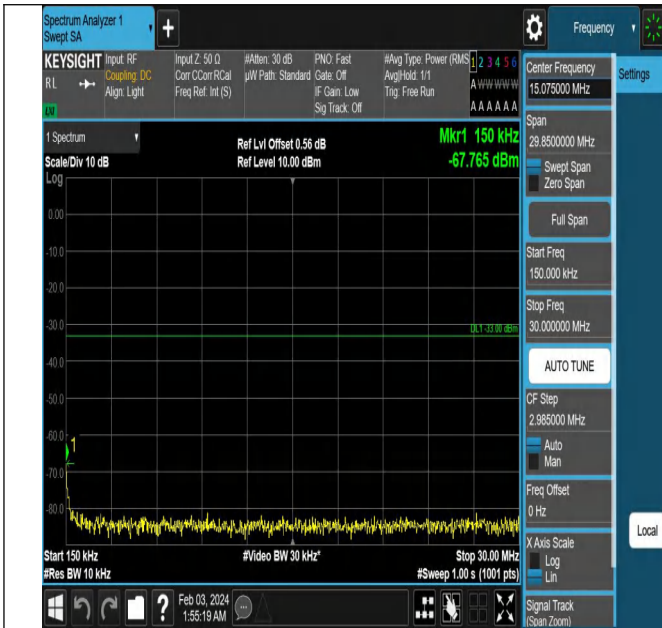
Band4\_15MHz\_QPSK\_20325\_1RB#0\_3000~20000\_3000~20

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Band4\_20MHz\_QPSK\_20050\_1RB#0\_0.009~0.15\_0.009~0.1

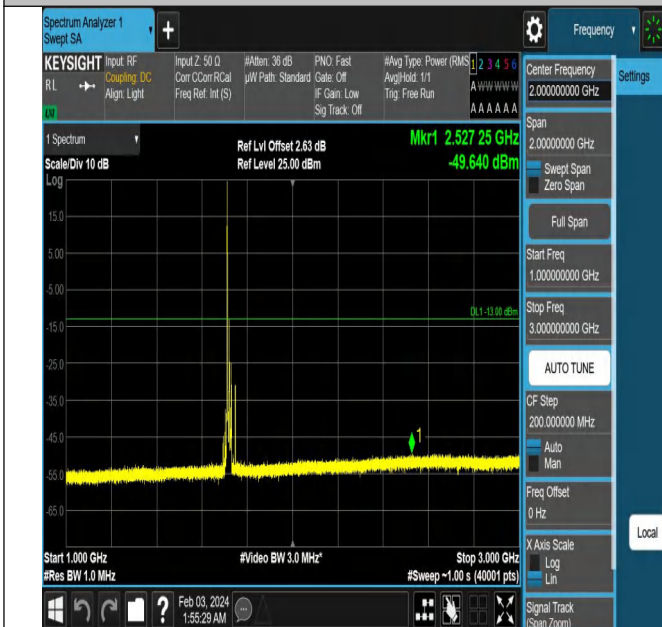
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Band4\_20MHz\_QPSK\_20050\_1RB#0\_0.15~30\_0.15~30

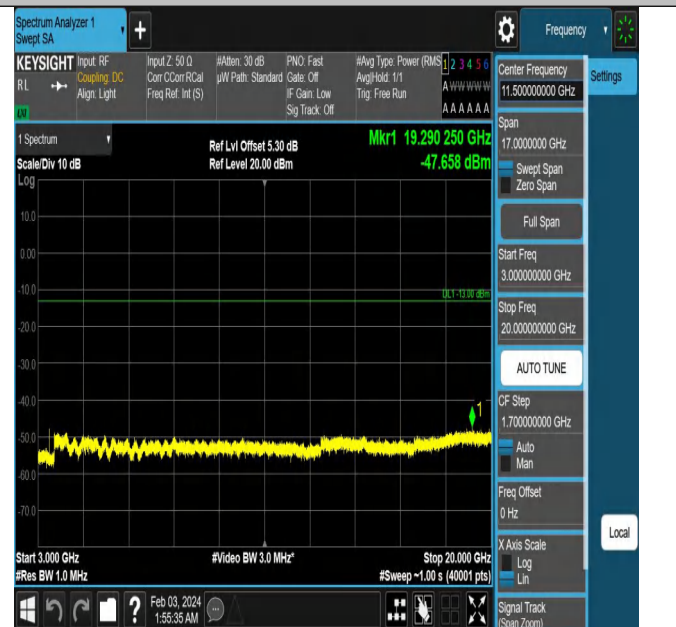


Band4\_20MHz\_QPSK\_20050\_1RB#0\_30~1000\_30~1000



Band4\_20MHz\_QPSK\_20050\_1RB#0\_1000~3000\_1000~300

0



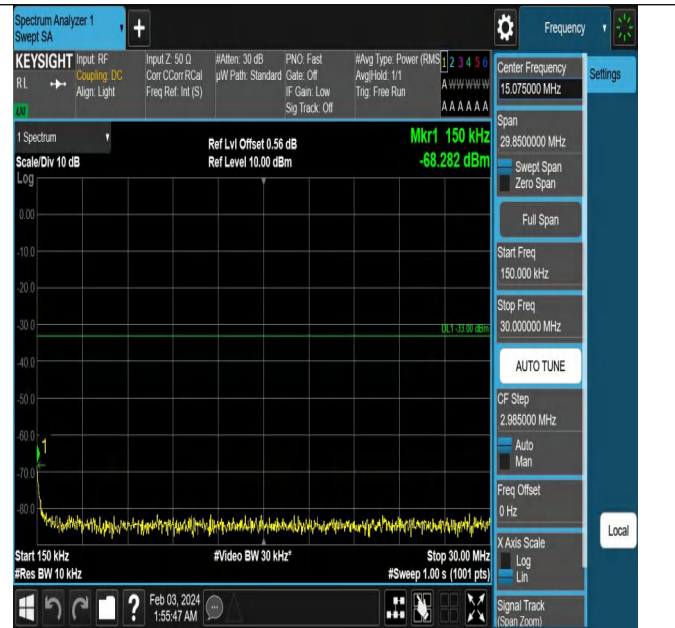
Band4\_20MHz\_QPSK\_20050\_1RB#0\_3000~20000\_3000~20

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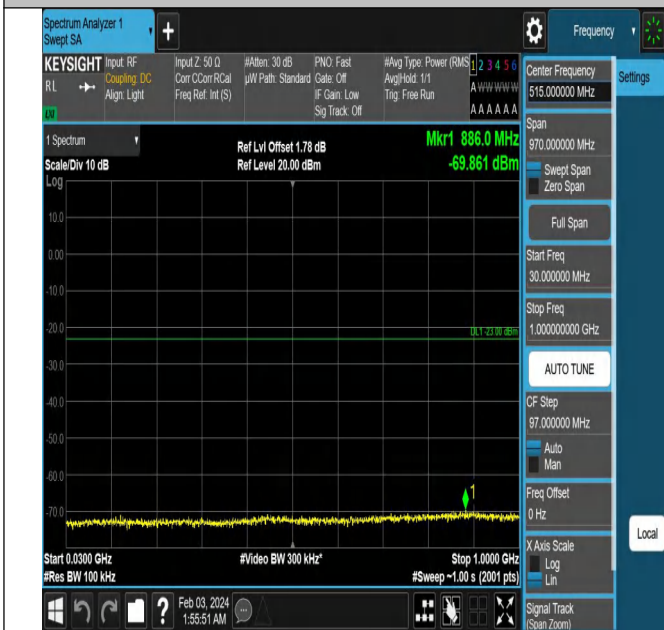


Band4\_20MHz\_QPSK\_20175\_1RB#0\_0.009~0.15\_0.009~0.1

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Band4\_20MHz\_QPSK\_20175\_1RB#0\_0.15~30\_0.15~30

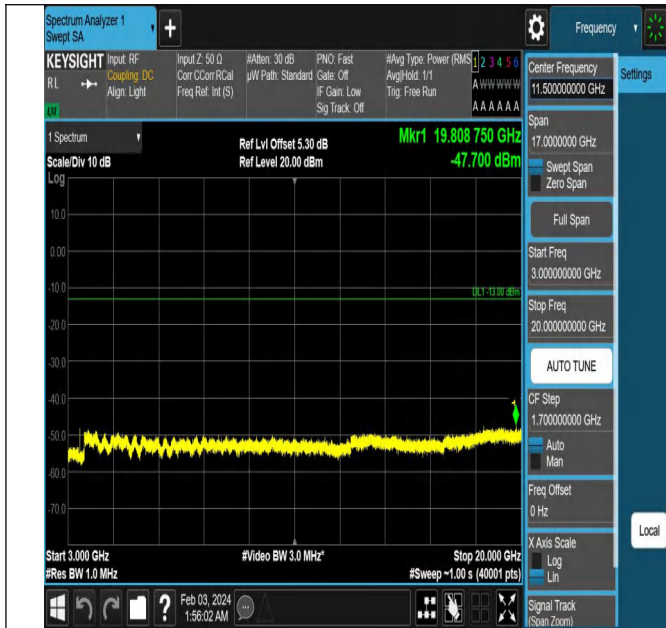


Band4\_20MHz\_QPSK\_20175\_1RB#0\_30~1000\_30~1000



Band4\_20MHz\_QPSK\_20175\_1RB#0\_1000~3000\_1000~300

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Band4\_20MHz\_QPSK\_20175\_1RB#0\_3000~20000\_3000~20000



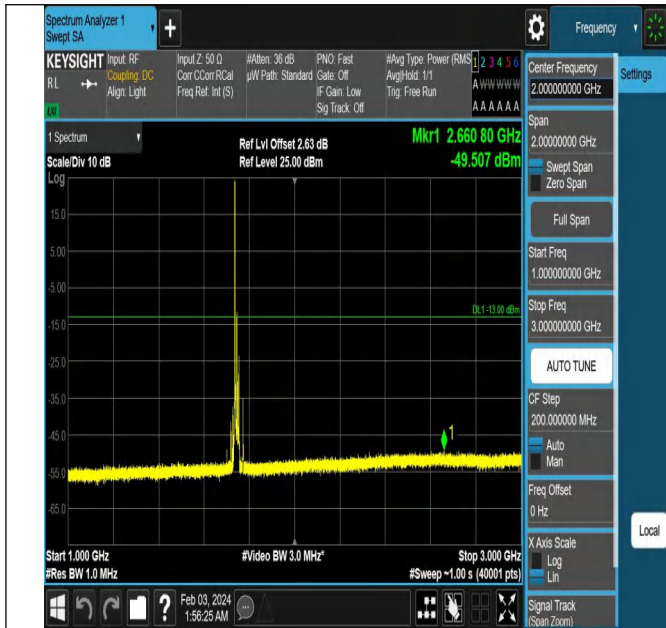
Band4\_20MHz\_QPSK\_20300\_1RB#0\_0.009~0.15\_0.009~0.15



Band4\_20MHz\_QPSK\_20300\_1RB#0\_0.15~30\_0.15~30

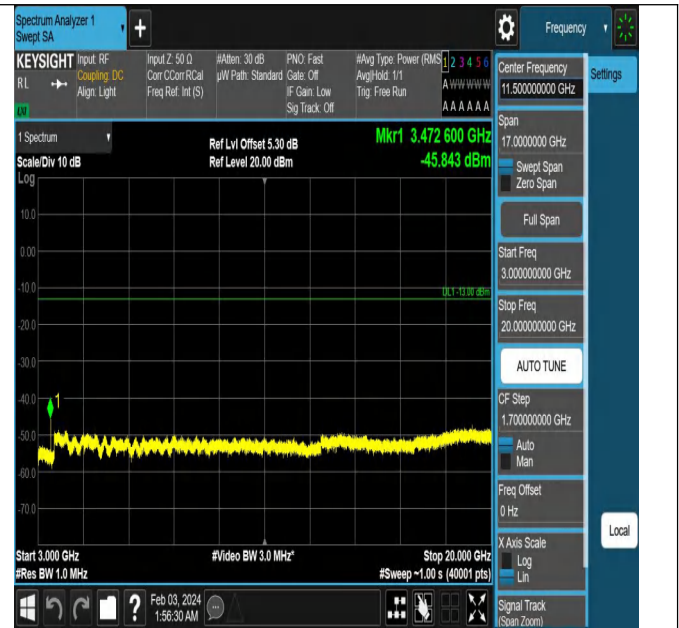


Band4\_20MHz\_QPSK\_20300\_1RB#0\_30~1000\_30~1000



Band4\_20MHz\_QPSK\_20300\_1RB#0\_1000~3000\_1000~300

0



Band4\_20MHz\_QPSK\_20300\_1RB#0\_3000~20000\_3000~20

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## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | 3.02           | 0.001743        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | 4.16           | 0.002401        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | 4.39           | 0.002534        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20175   | 100RB#0      | VN            | NT               | -1.53          | -0.000883       | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20175   | 100RB#0      | VL            | NT               | 5.68           | 0.003278        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20175   | 100RB#0      | VH            | NT               | 2.25           | 0.001299        | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | 2.50           | 0.001443        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -20              | -3.15          | -0.001818       | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -10              | -4.22          | -0.002436       | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 0                | 7.61           | 0.004392        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 10               | 3.10           | 0.001789        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 20               | 3.55           | 0.002049        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 30               | -1.43          | -0.000825       | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 40               | 3.53           | 0.002038        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 50               | 3.63           | 0.002095        | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | -30              | 4.89           | 0.002823        | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | -20              | 3.74           | 0.002159        | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | -10              | -2.23          | -0.001287       | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | 0                | 1.67           | 0.000964        | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | 10               | -2.30          | -0.001328       | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | 20               | 4.94           | 0.002851        | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | 30               | -2.39          | -0.001380       | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | 40               | 3.07           | 0.001772        | ±2.5        | PASS    |
| Band4       | 20MHz     | 16QAM      | 20175   | 100RB#0      | NV            | 50               | 1.88           | 0.001085        | ±2.5        | PASS    |