

## LTE B48

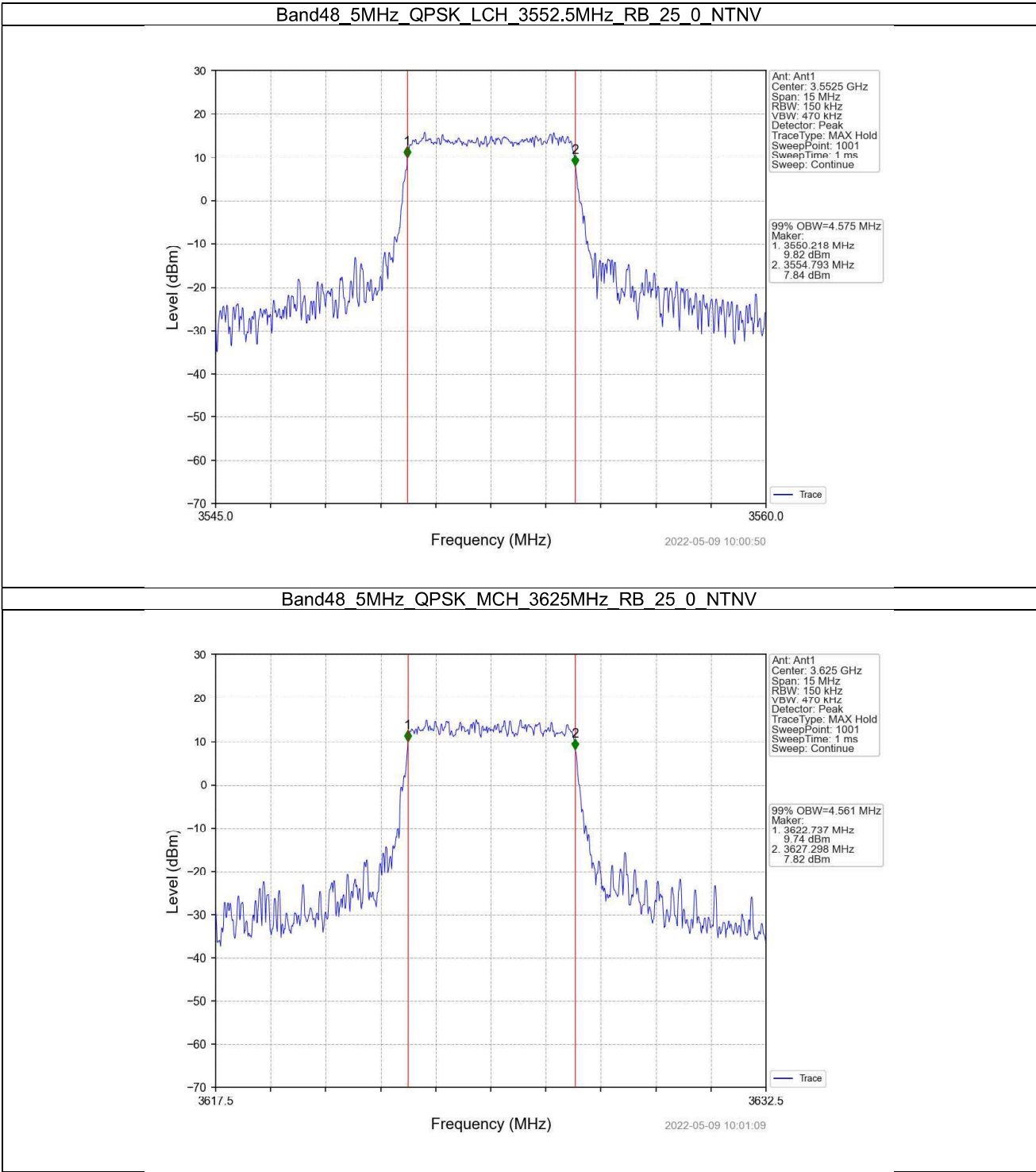
### 1. 99% & 26dB Bandwidth

#### 1.1 Band48\_OBW

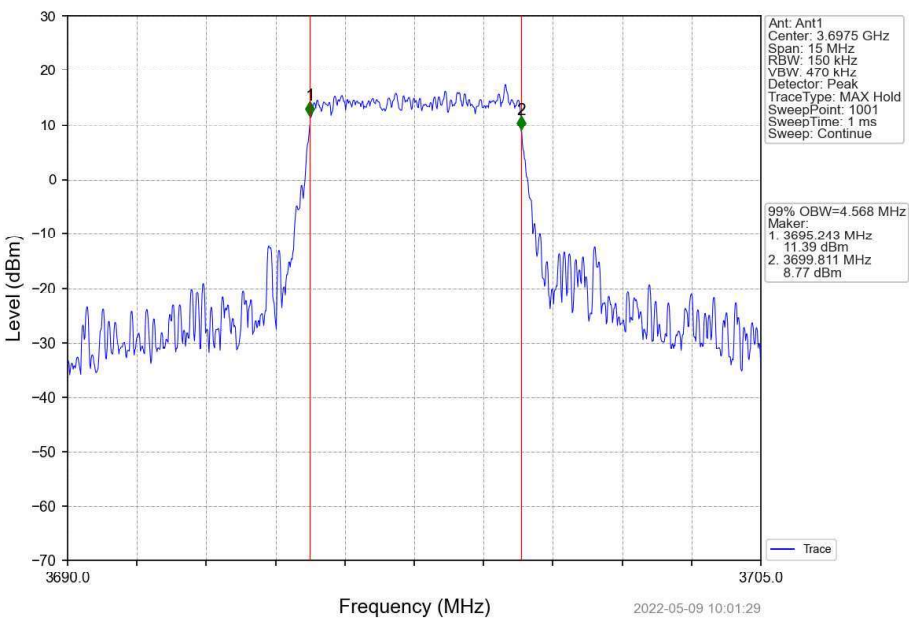
##### 1.1.1 Test Result

| Band: 48 / NTNV |            |                 |               |        |                              |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) | Verdict |
|                 |            |                 | Size          | Offset | Result                       |         |
| 5               | QPSK       | 3552.5          | 25            | 0      | 4.575                        | Pass    |
|                 |            | 3625            | 25            | 0      | 4.561                        | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.568                        | Pass    |
|                 | 16QAM      | 3552.5          | 25            | 0      | 4.569                        | Pass    |
|                 |            | 3625            | 25            | 0      | 4.567                        | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.554                        | Pass    |
| 10              | QPSK       | 3555            | 50            | 0      | 9.090                        | Pass    |
|                 |            | 3625            | 50            | 0      | 9.043                        | Pass    |
|                 |            | 3695            | 50            | 0      | 9.051                        | Pass    |
|                 | 16QAM      | 3555            | 50            | 0      | 9.115                        | Pass    |
|                 |            | 3625            | 50            | 0      | 9.064                        | Pass    |
|                 |            | 3695            | 50            | 0      | 9.074                        | Pass    |
| 15              | QPSK       | 3557.5          | 75            | 0      | 13.638                       | Pass    |
|                 |            | 3625            | 75            | 0      | 13.576                       | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.615                       | Pass    |
|                 | 16QAM      | 3557.5          | 75            | 0      | 13.617                       | Pass    |
|                 |            | 3625            | 75            | 0      | 13.550                       | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.629                       | Pass    |
| 20              | QPSK       | 3560            | 100           | 0      | 18.155                       | Pass    |
|                 |            | 3625            | 100           | 0      | 18.066                       | Pass    |
|                 |            | 3690            | 100           | 0      | 18.045                       | Pass    |
|                 | 16QAM      | 3560            | 100           | 0      | 18.125                       | Pass    |
|                 |            | 3625            | 100           | 0      | 18.171                       | Pass    |
|                 |            | 3690            | 100           | 0      | 18.082                       | Pass    |

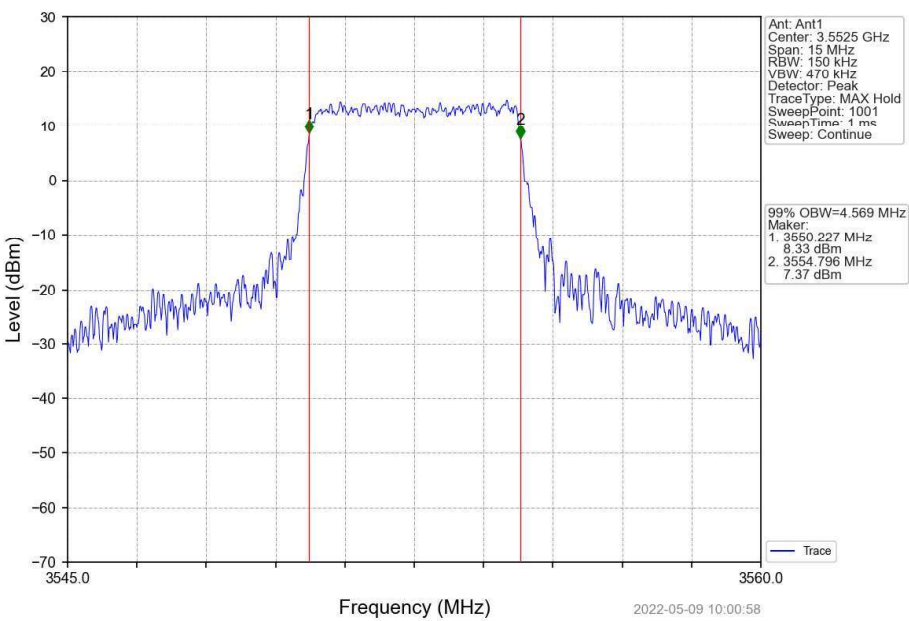
1.1.2 Test Graph



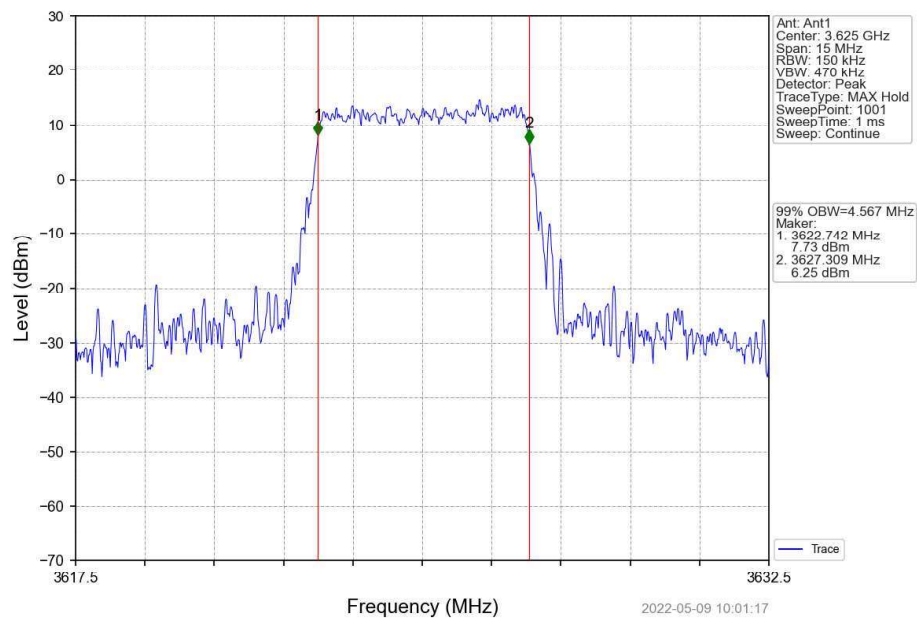
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



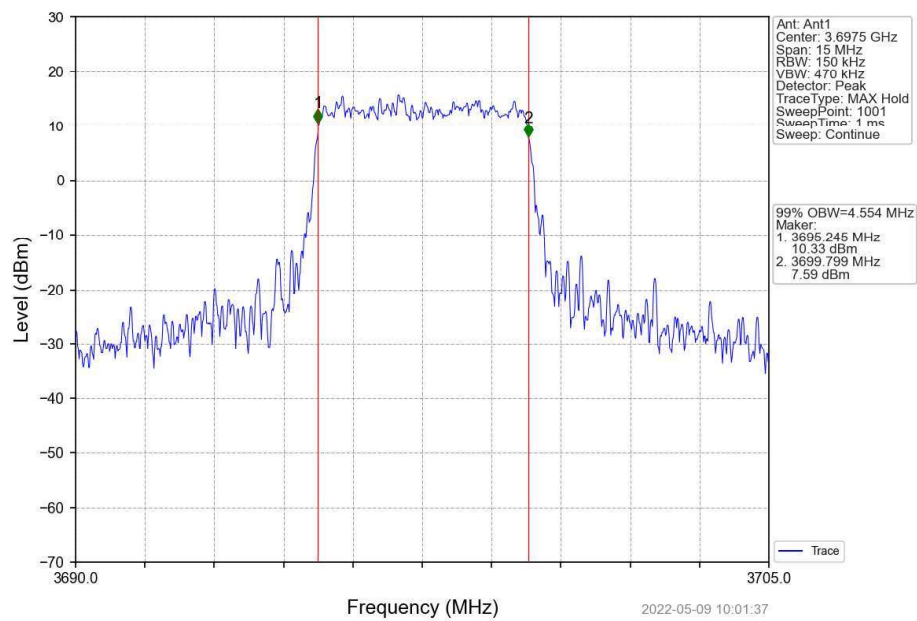
Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



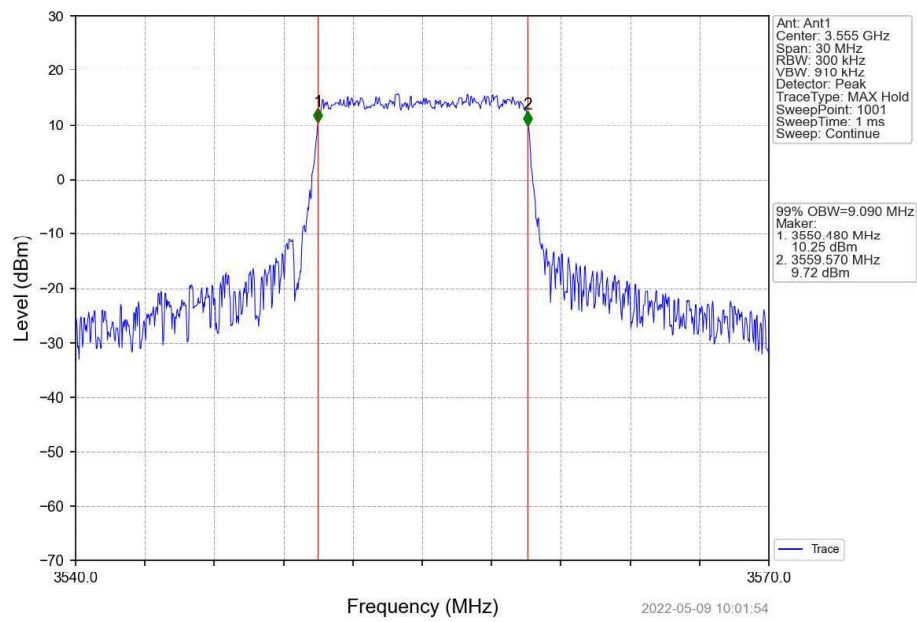
# Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



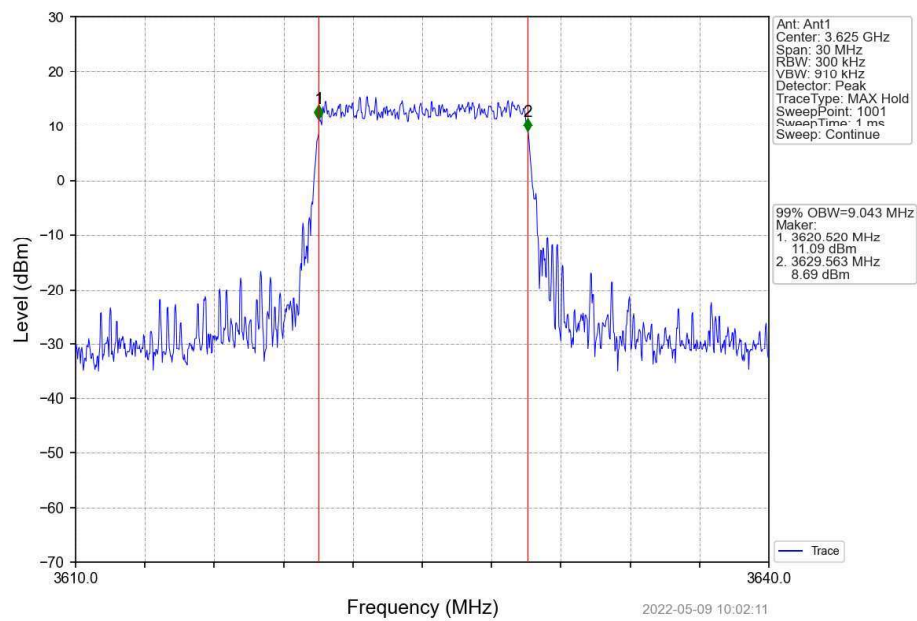
# Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



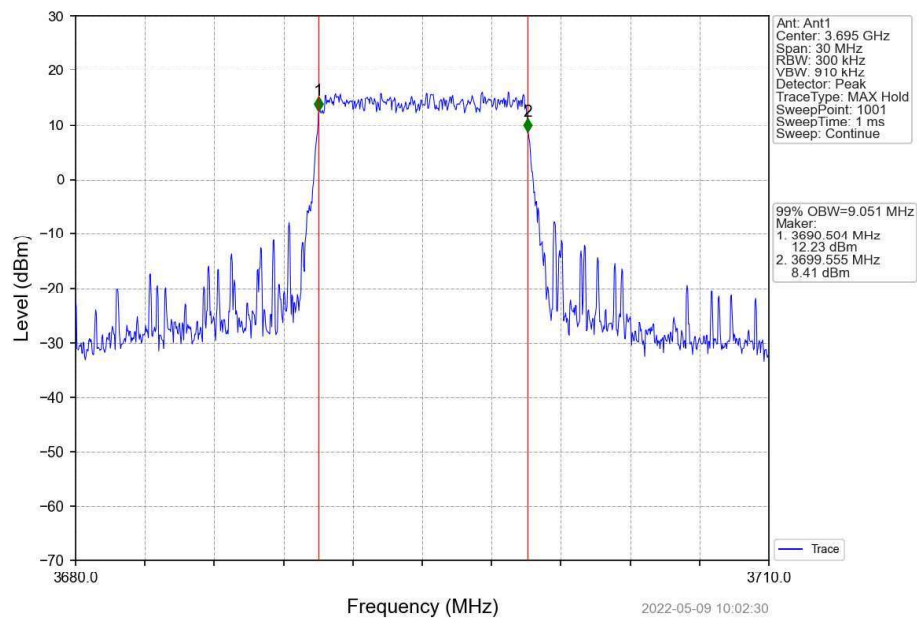
# Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



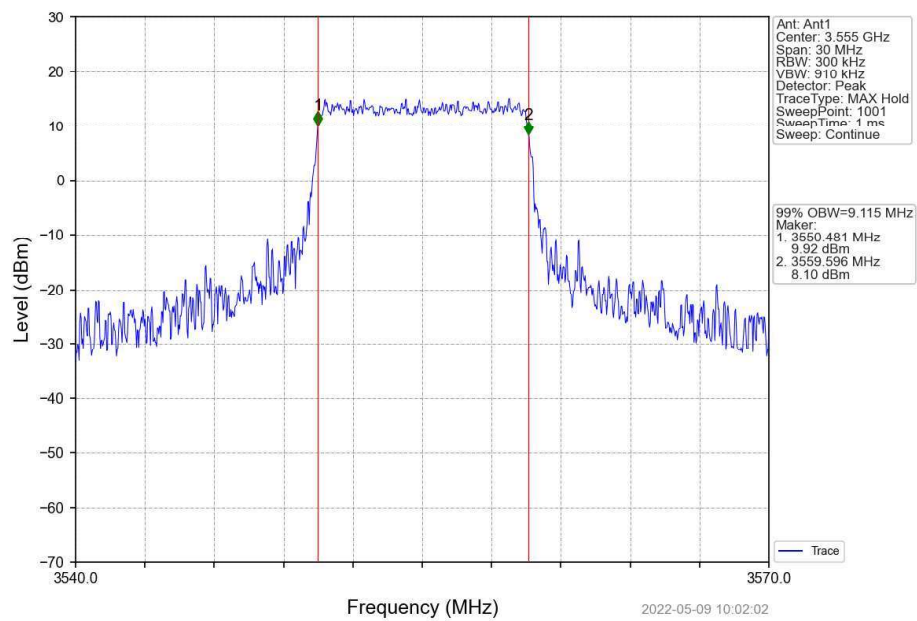
# Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



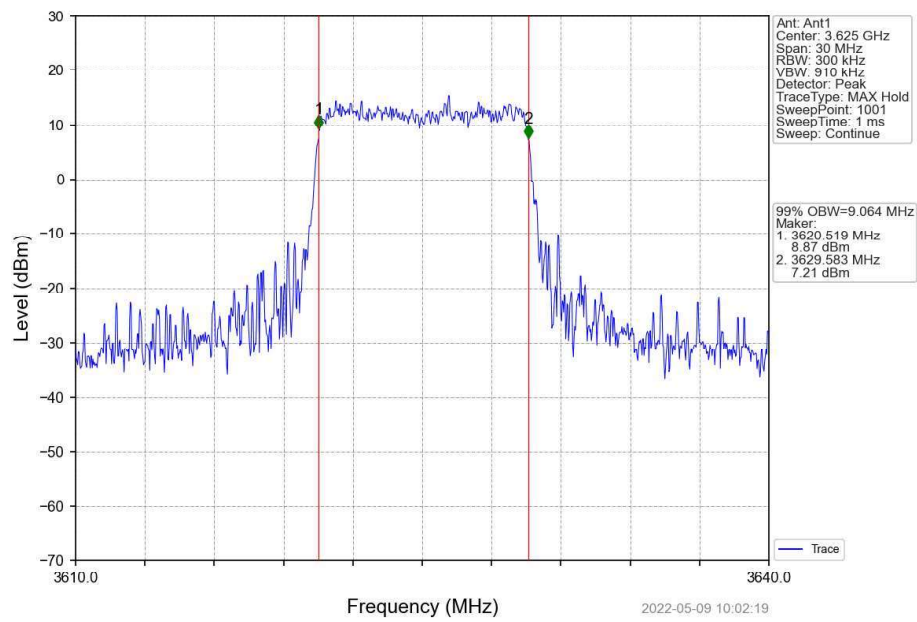
# Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



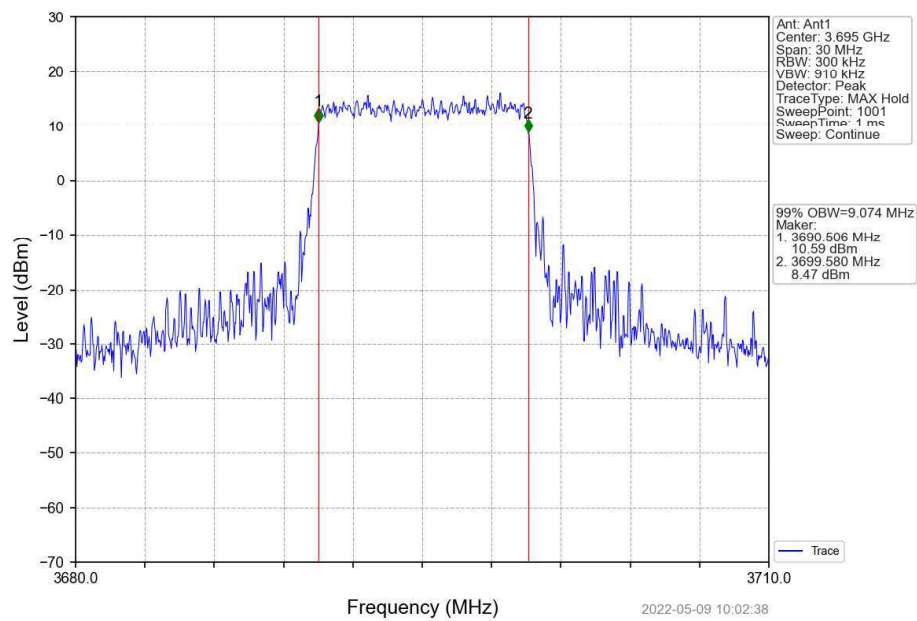
# Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV

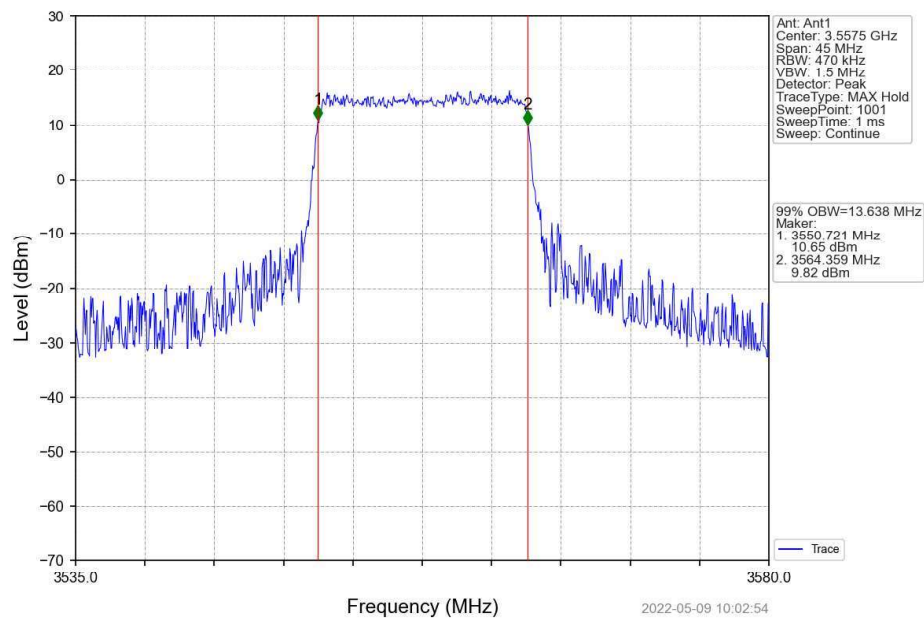


Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV

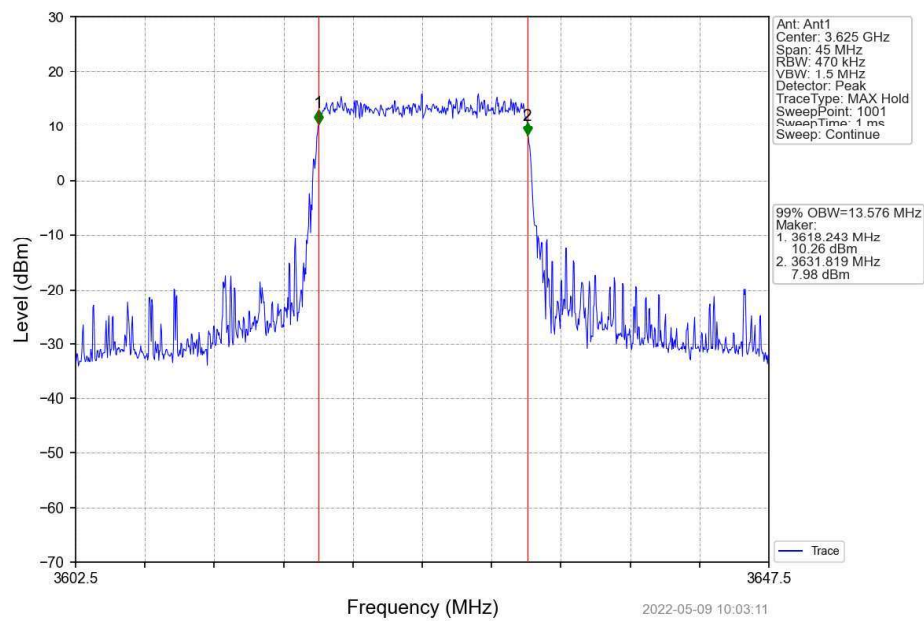




Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

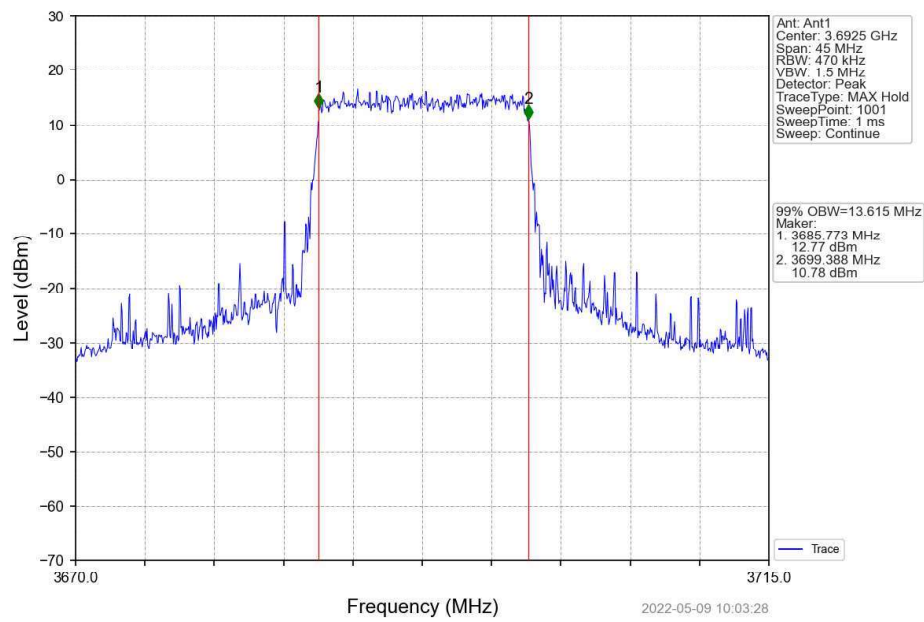


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV

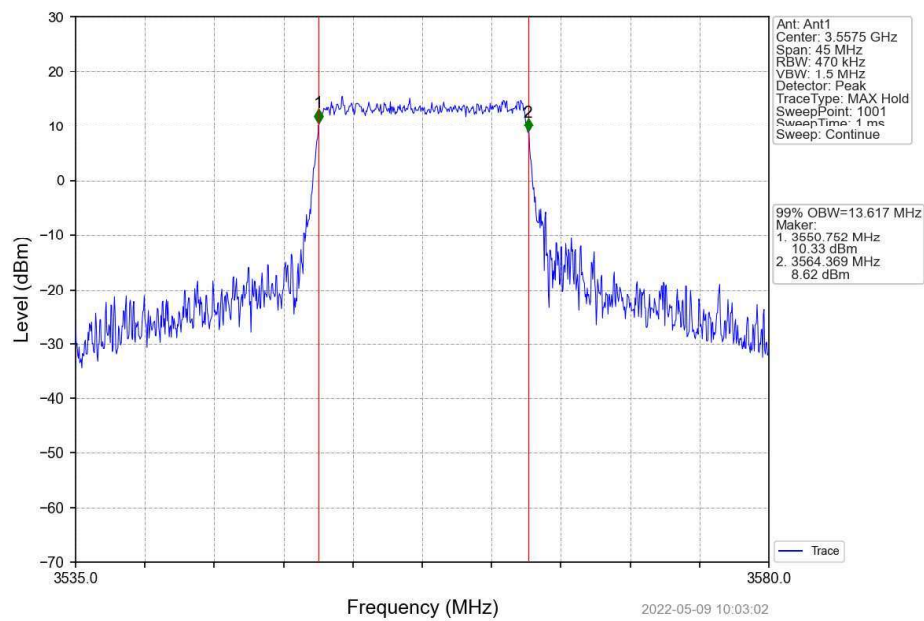




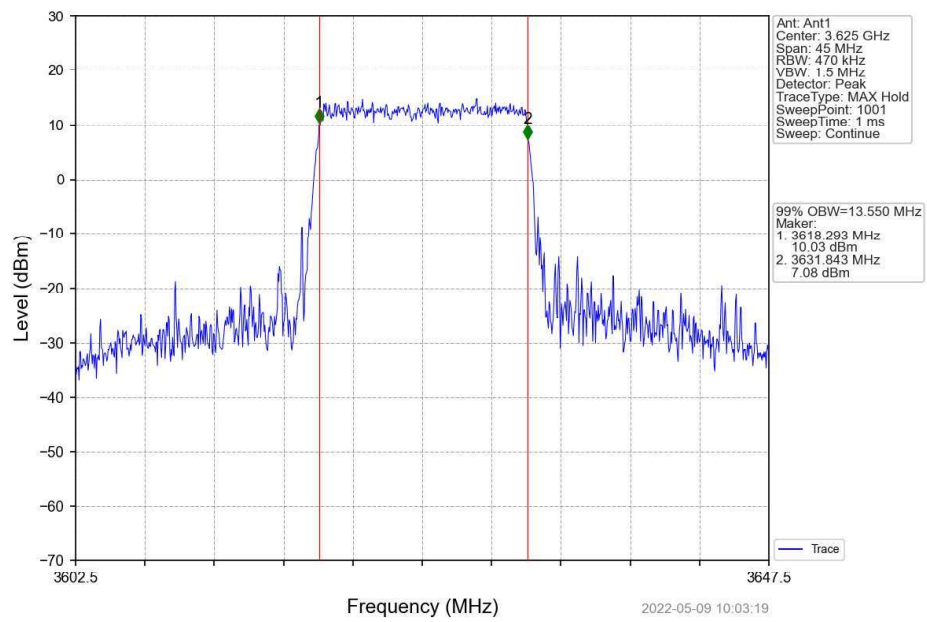
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



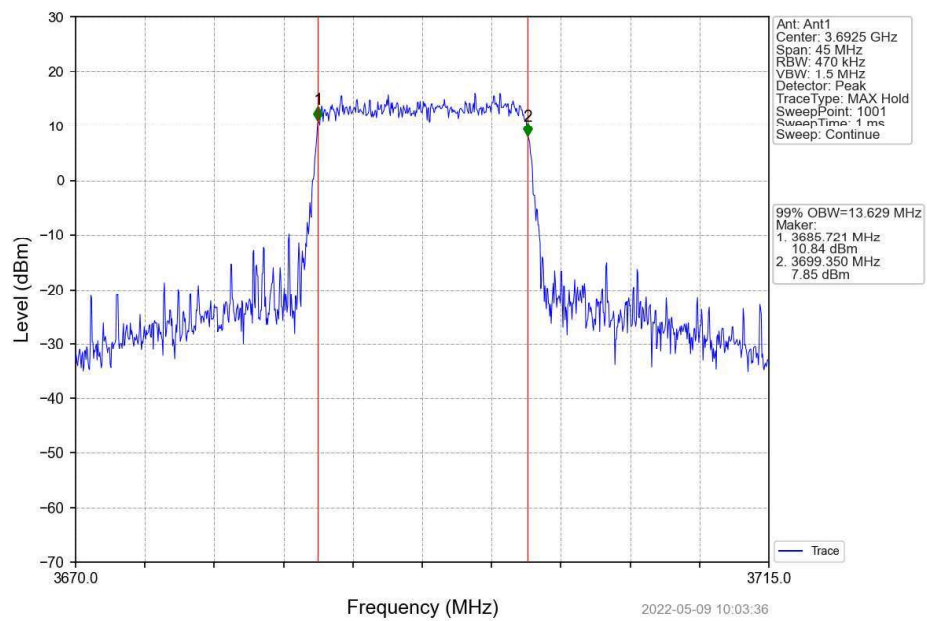
Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



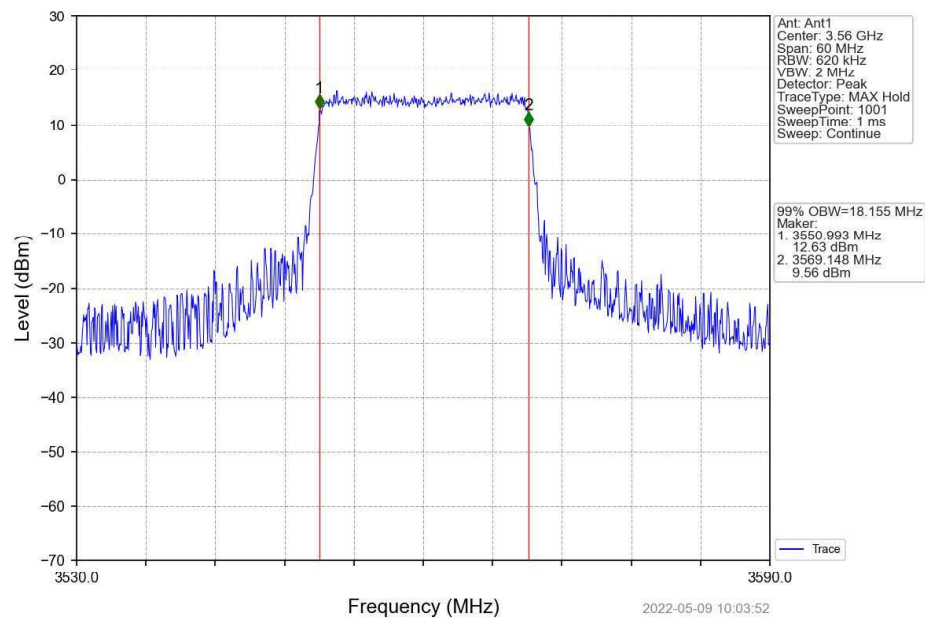
# Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



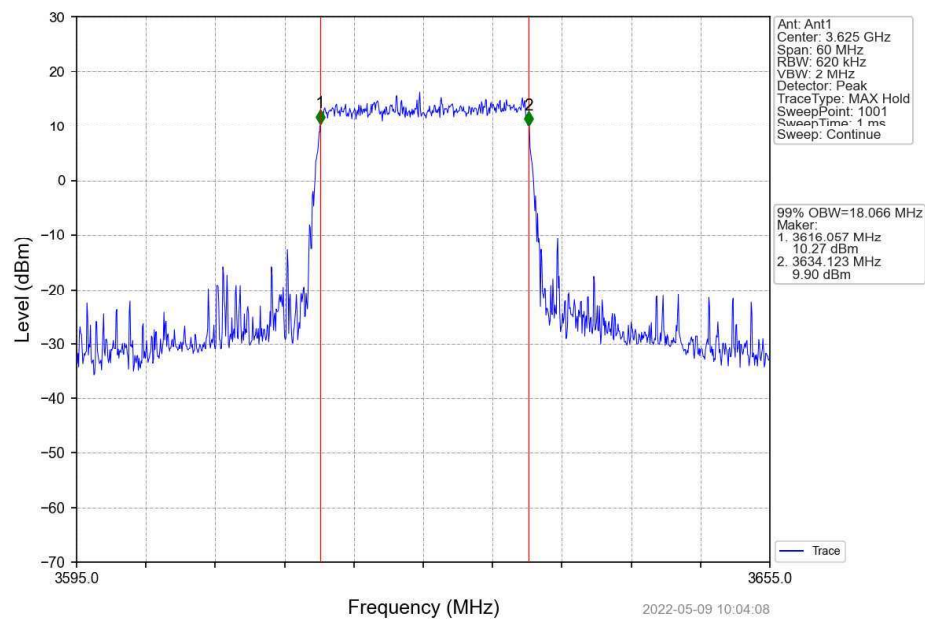
# Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



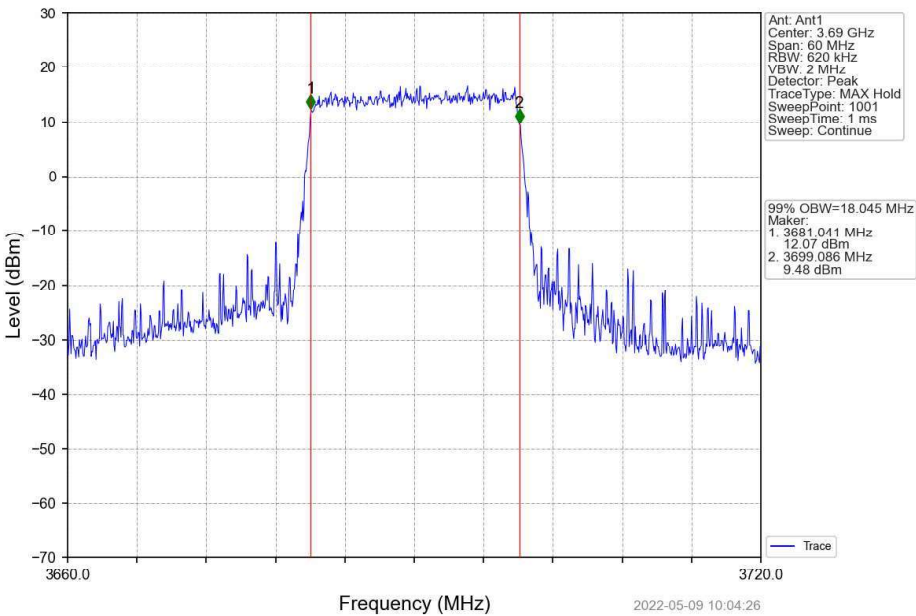
Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



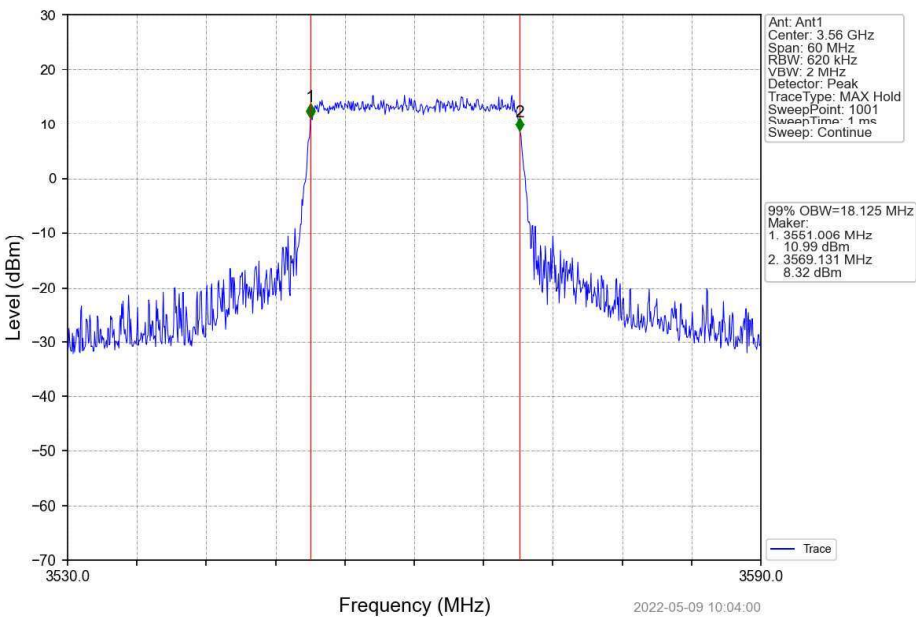
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV



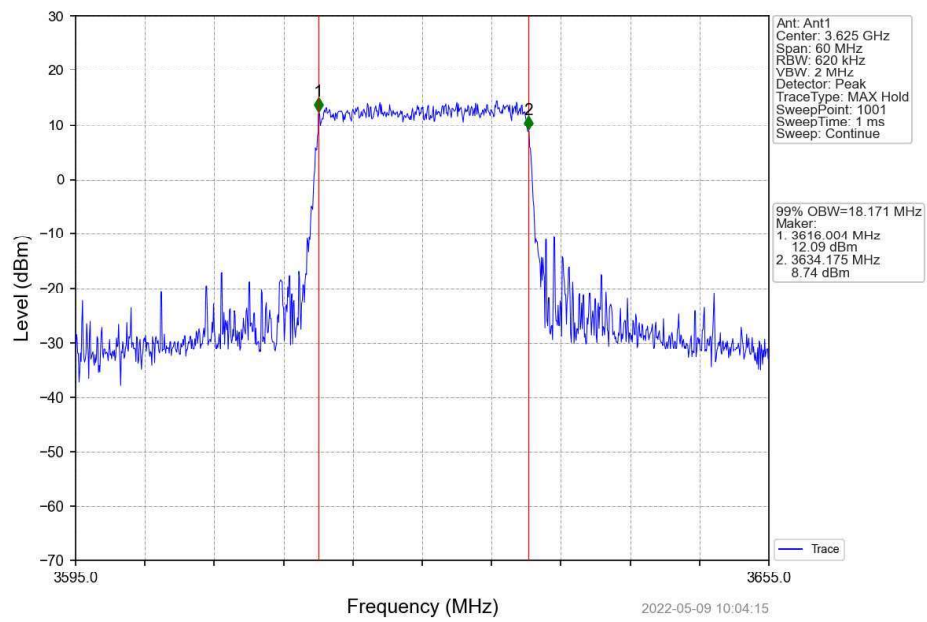
Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



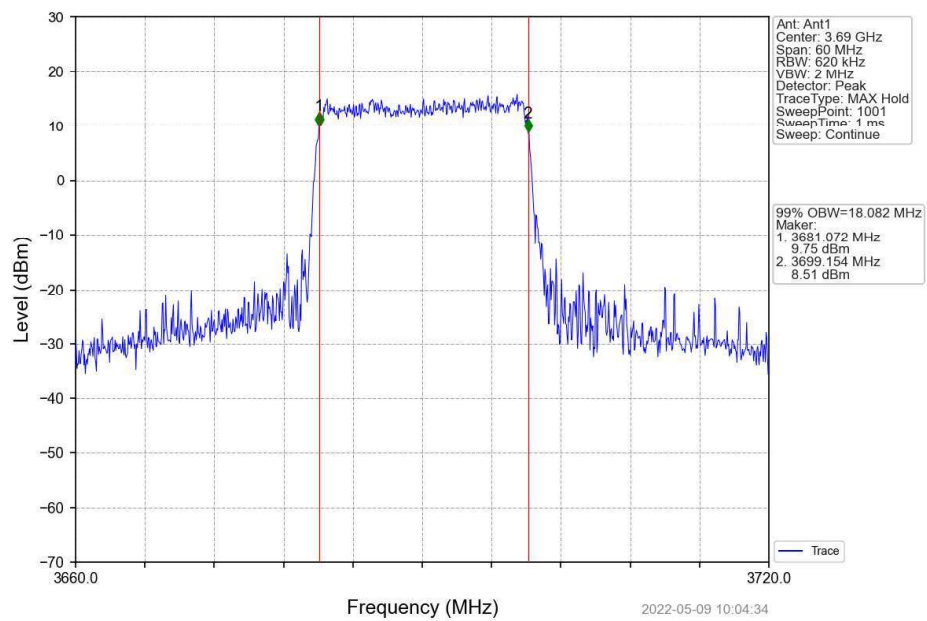
Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV

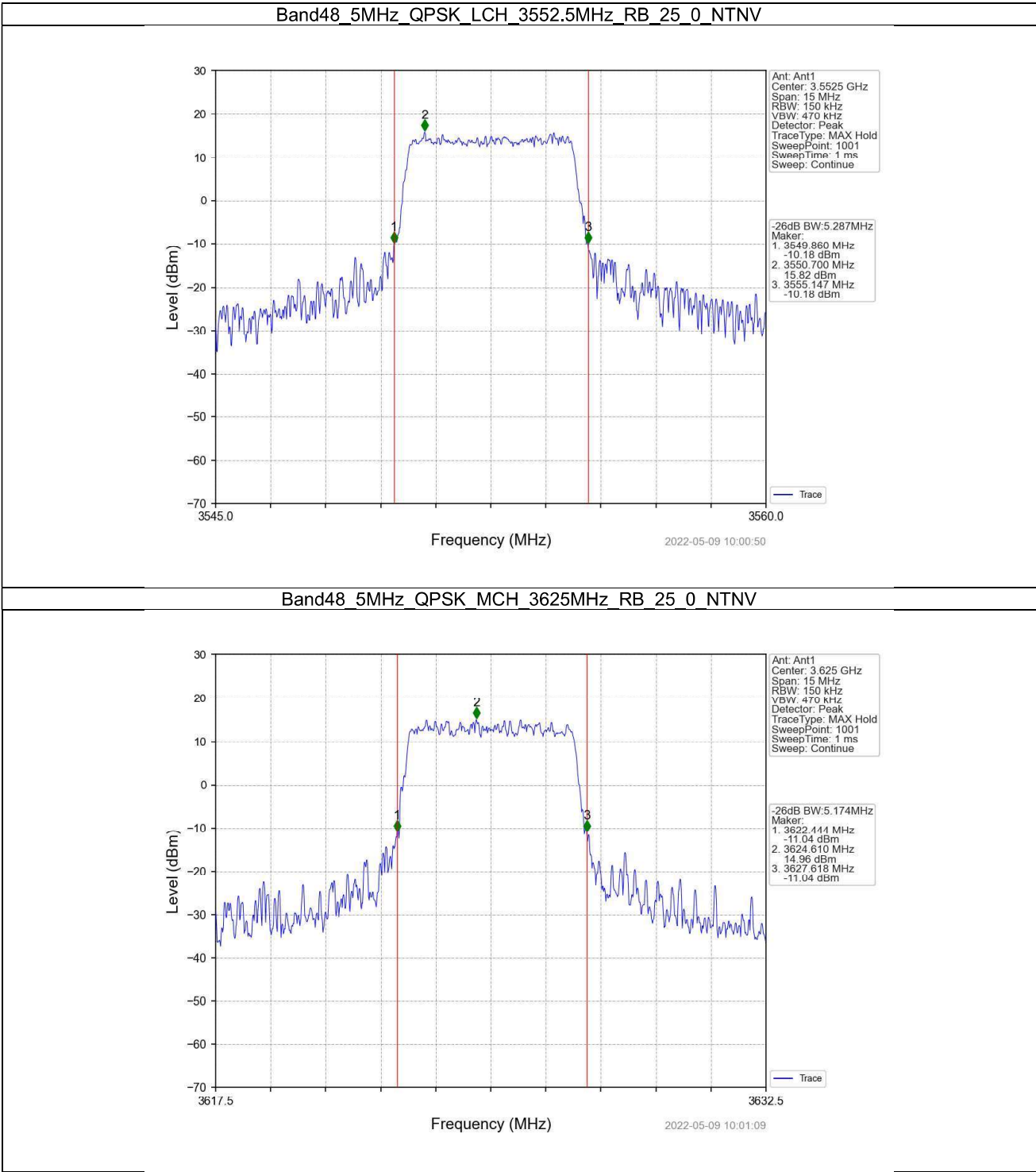


## 1.2 Band48\_XDB

### 1.2.1 Test Result

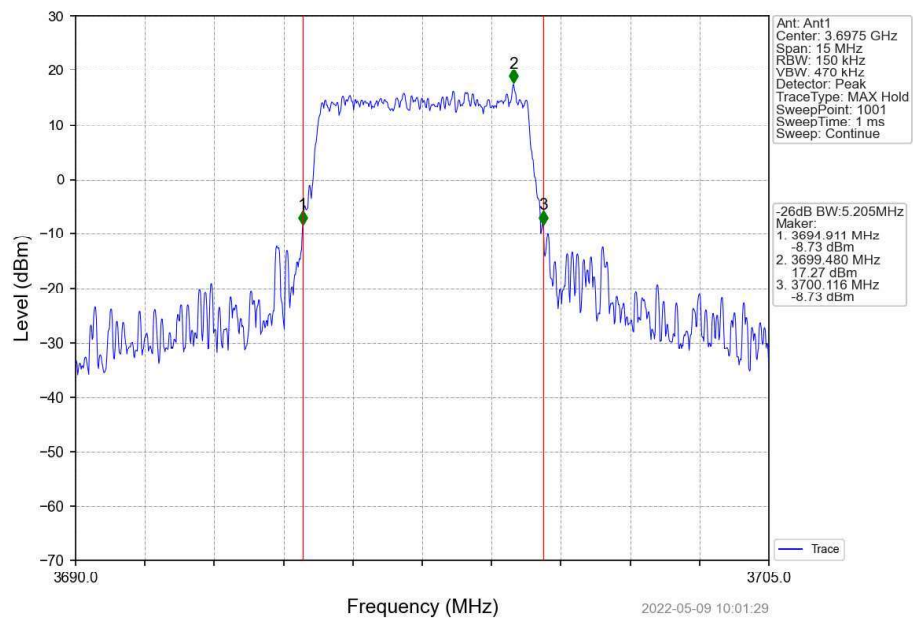
| Band: 48 / NTNV |            |                 |               |        |                      |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) | Verdict |
|                 |            |                 | Size          | Offset | Result               |         |
| 5               | QPSK       | 3552.5          | 25            | 0      | 5.287                | Pass    |
|                 |            | 3625            | 25            | 0      | 5.174                | Pass    |
|                 |            | 3697.5          | 25            | 0      | 5.205                | Pass    |
|                 | 16QAM      | 3552.5          | 25            | 0      | 5.707                | Pass    |
|                 |            | 3625            | 25            | 0      | 5.421                | Pass    |
|                 |            | 3697.5          | 25            | 0      | 5.194                | Pass    |
| 10              | QPSK       | 3555            | 50            | 0      | 10.257               | Pass    |
|                 |            | 3625            | 50            | 0      | 10.632               | Pass    |
|                 |            | 3695            | 50            | 0      | 11.570               | Pass    |
|                 | 16QAM      | 3555            | 50            | 0      | 12.065               | Pass    |
|                 |            | 3625            | 50            | 0      | 10.827               | Pass    |
|                 |            | 3695            | 50            | 0      | 10.556               | Pass    |
| 15              | QPSK       | 3557.5          | 75            | 0      | 16.696               | Pass    |
|                 |            | 3625            | 75            | 0      | 14.878               | Pass    |
|                 |            | 3692.5          | 75            | 0      | 16.584               | Pass    |
|                 | 16QAM      | 3557.5          | 75            | 0      | 17.382               | Pass    |
|                 |            | 3625            | 75            | 0      | 15.512               | Pass    |
|                 |            | 3692.5          | 75            | 0      | 16.249               | Pass    |
| 20              | QPSK       | 3560            | 100           | 0      | 20.761               | Pass    |
|                 |            | 3625            | 100           | 0      | 19.814               | Pass    |
|                 |            | 3690            | 100           | 0      | 19.834               | Pass    |
|                 | 16QAM      | 3560            | 100           | 0      | 21.447               | Pass    |
|                 |            | 3625            | 100           | 0      | 21.440               | Pass    |
|                 |            | 3690            | 100           | 0      | 19.782               | Pass    |

1.2.2 Test Graph

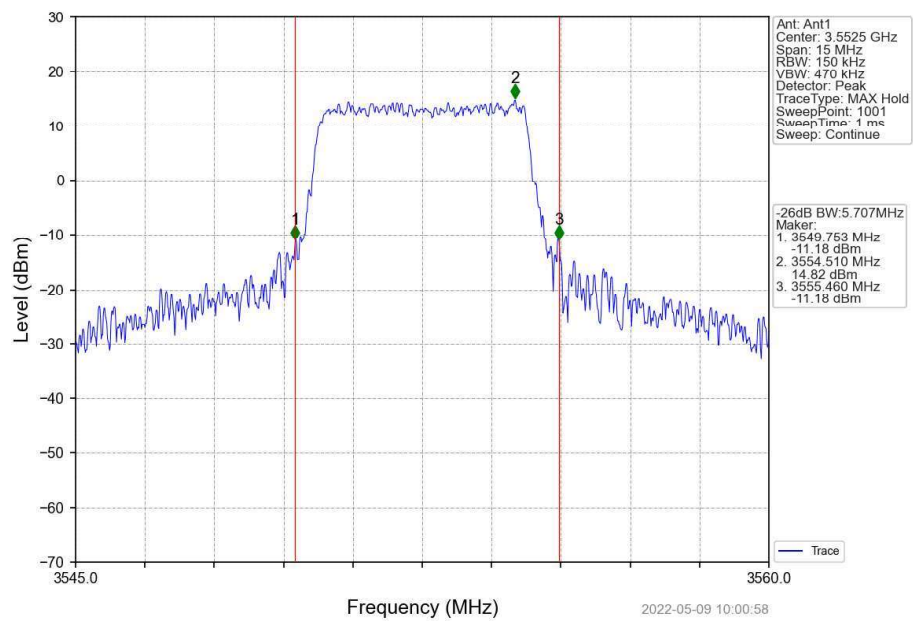




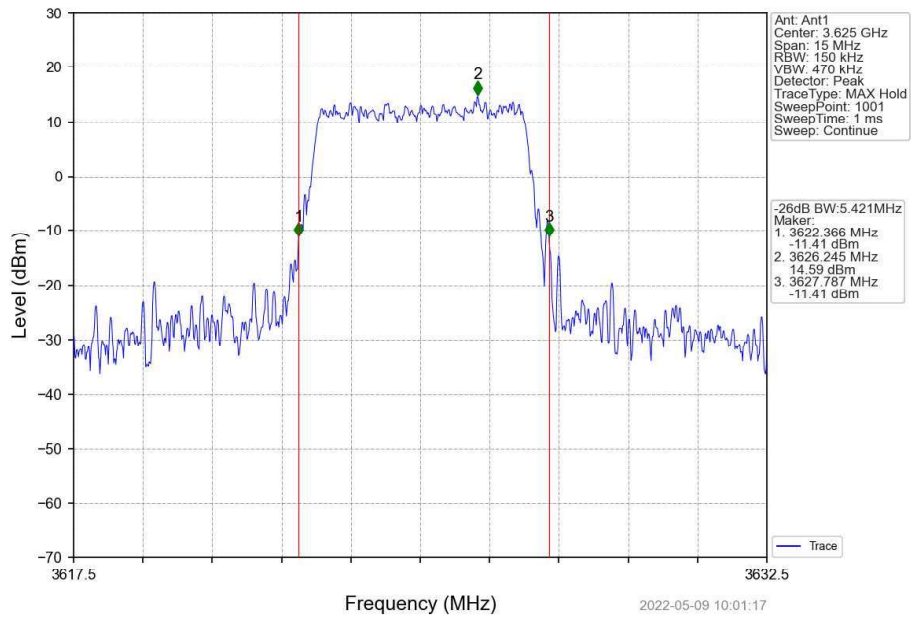
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



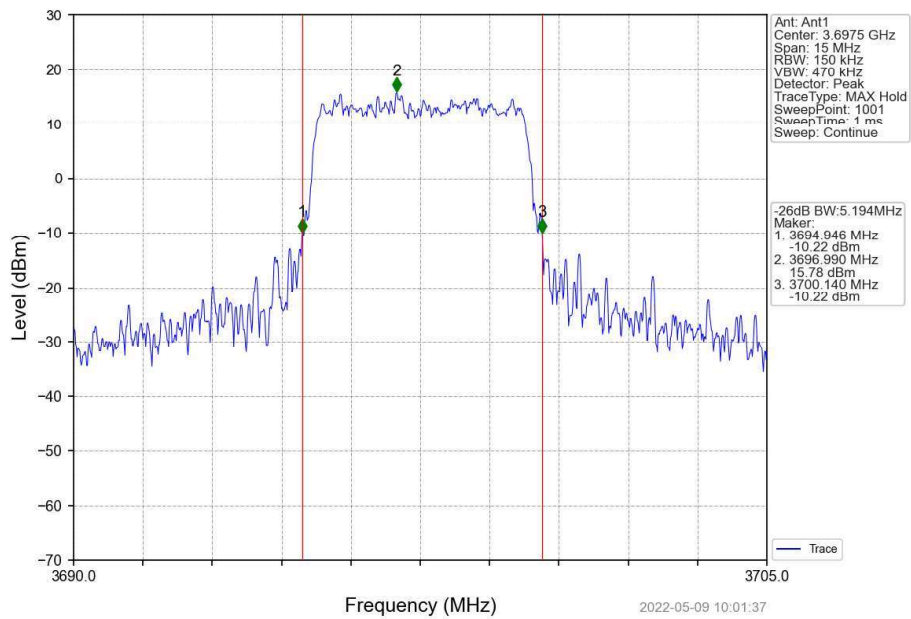
Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



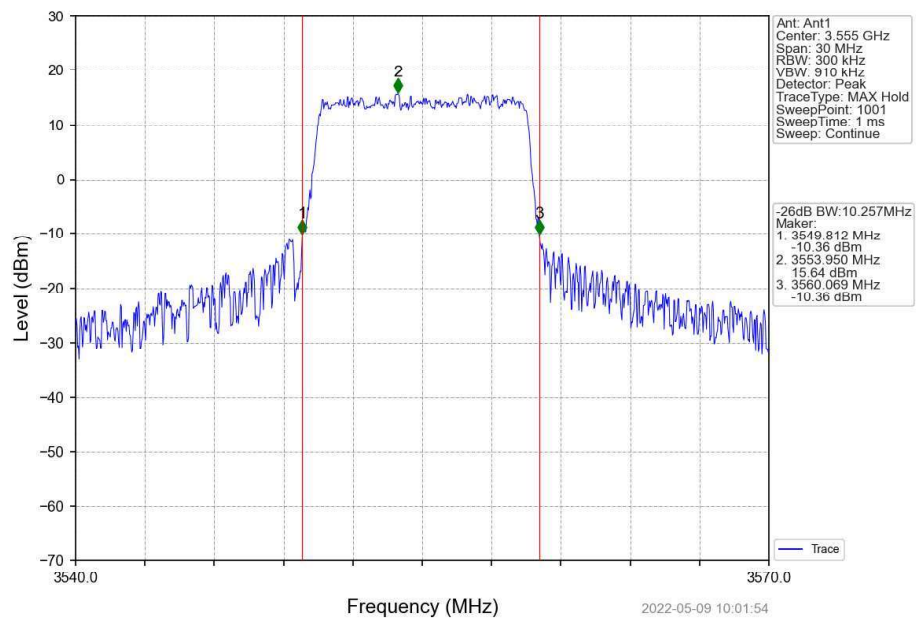
# Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



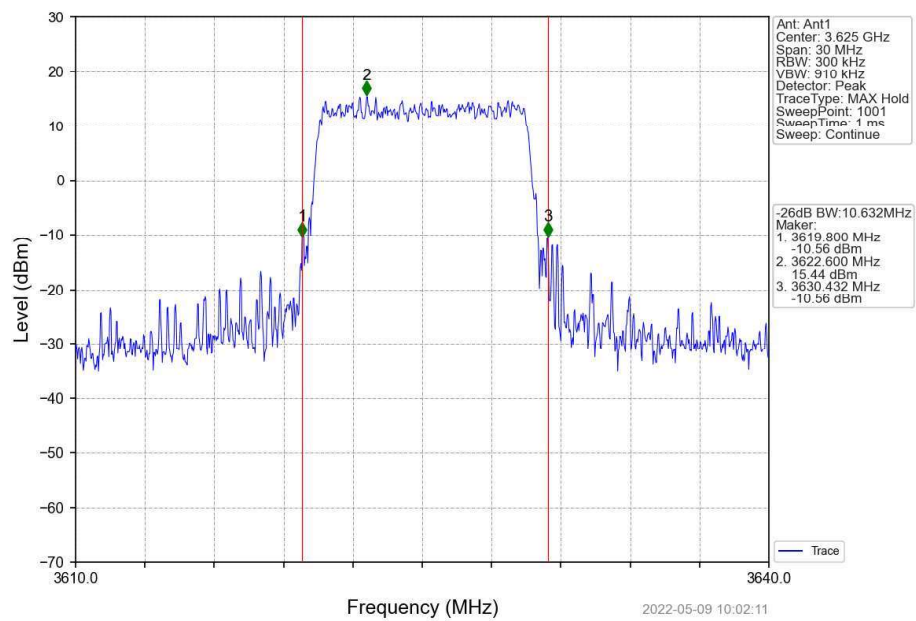
# Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



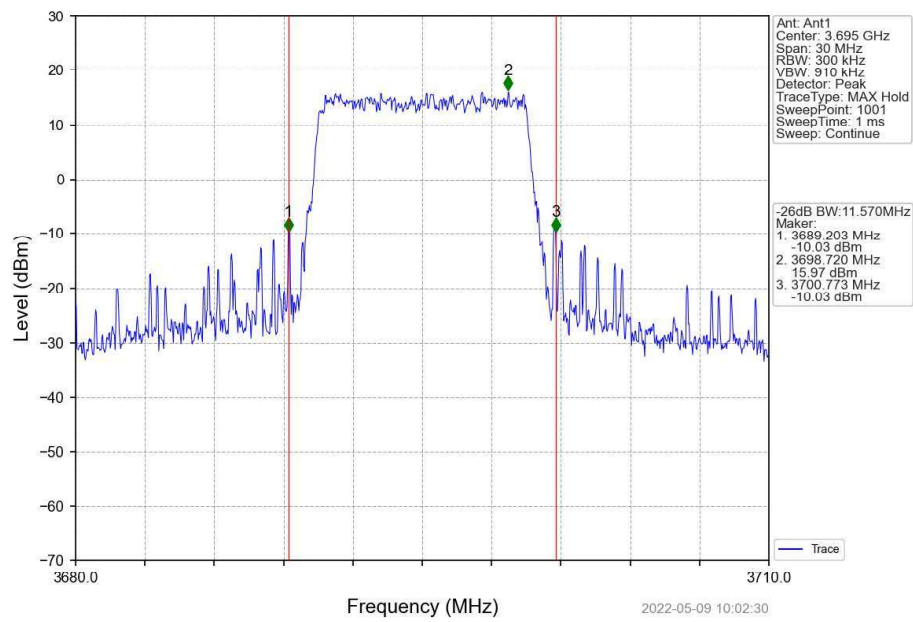
# Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



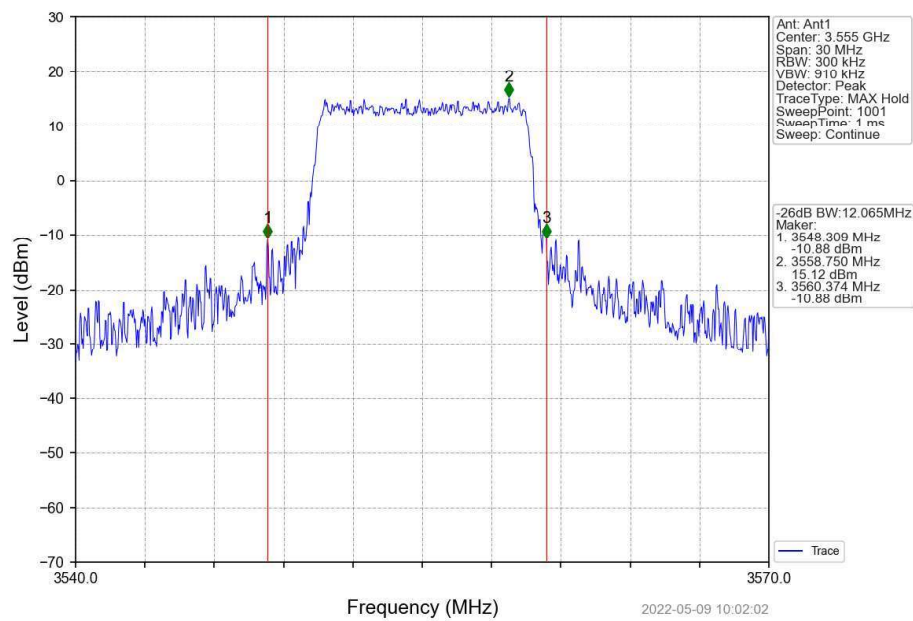
# Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



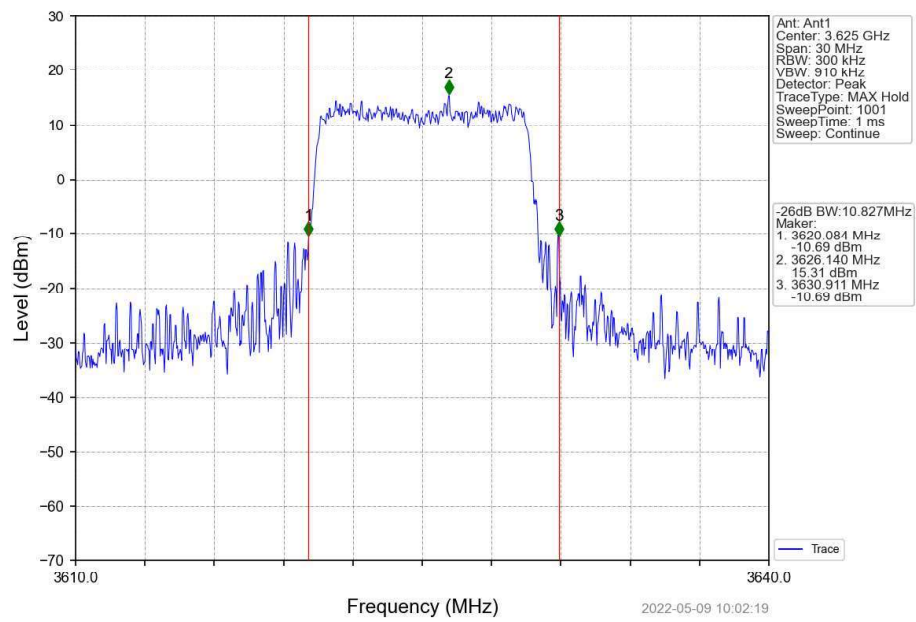
# Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



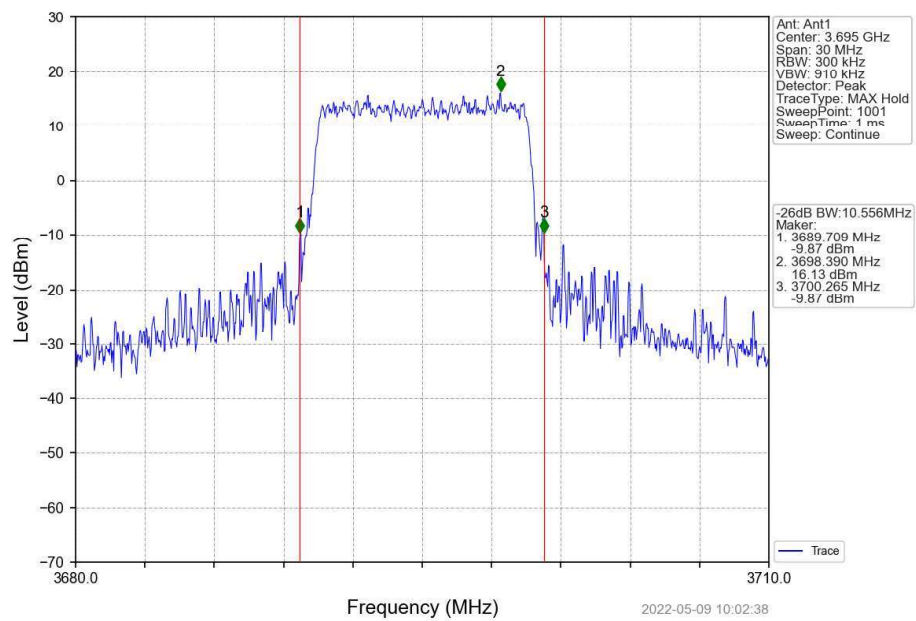
# Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



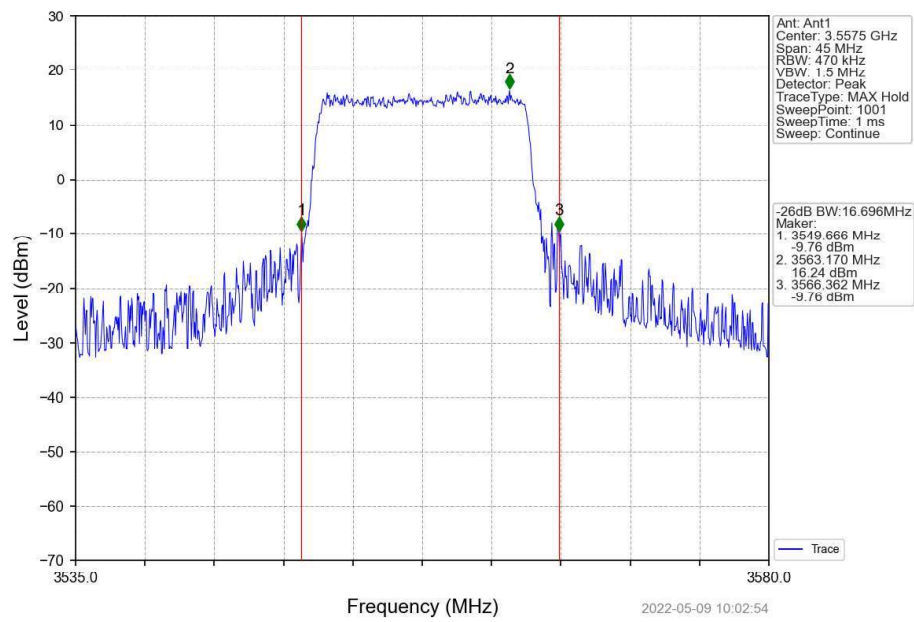
# Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



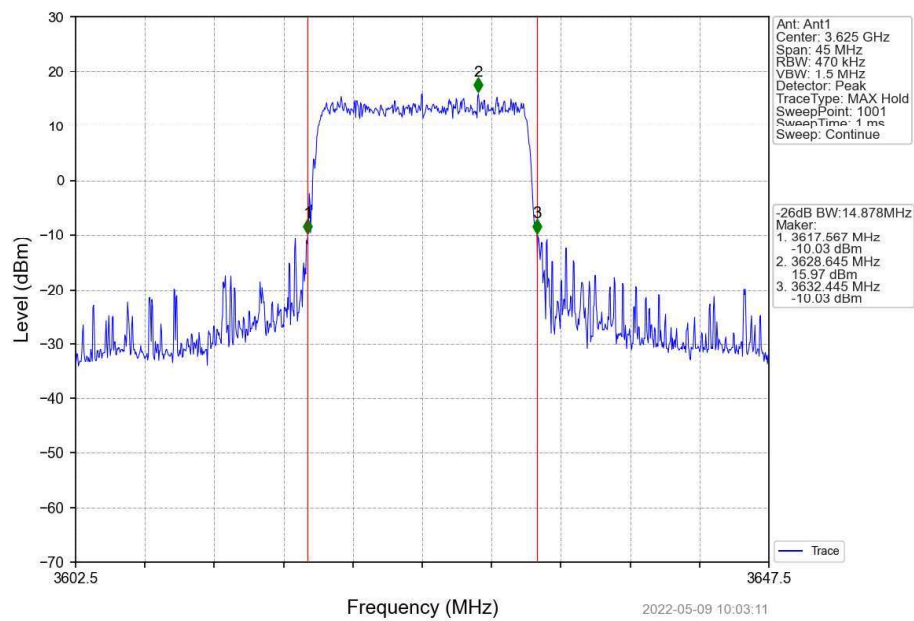
# Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

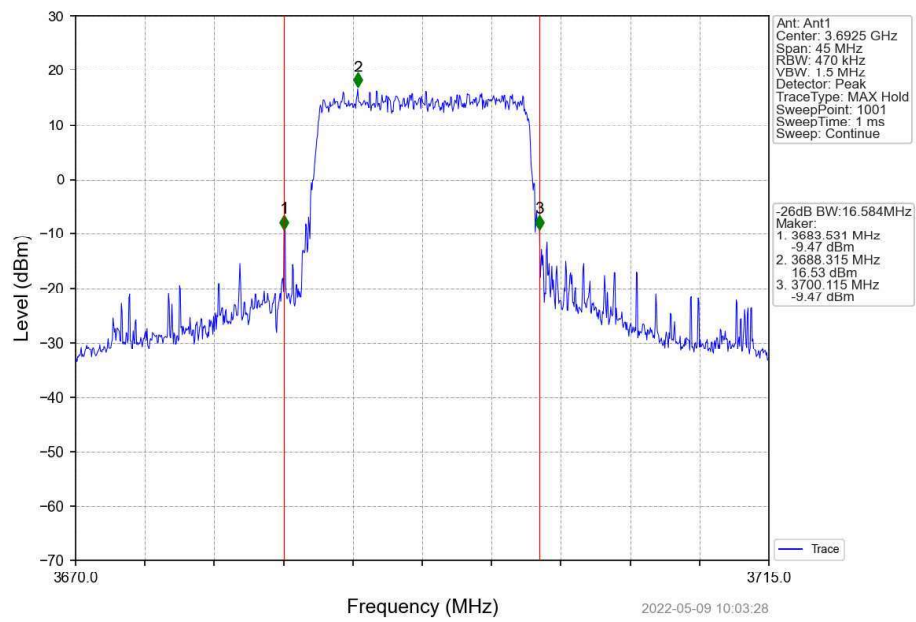


Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV

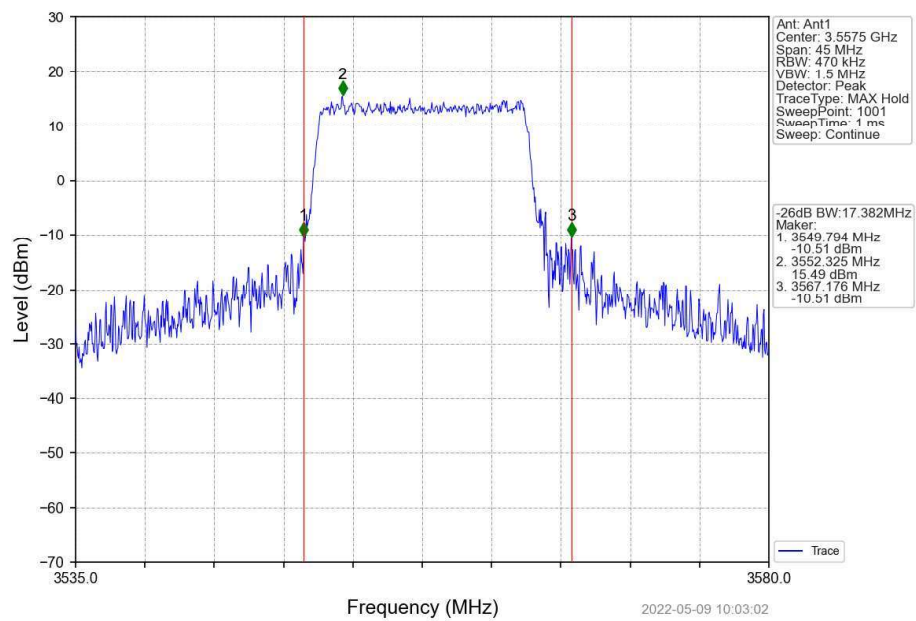




# Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV

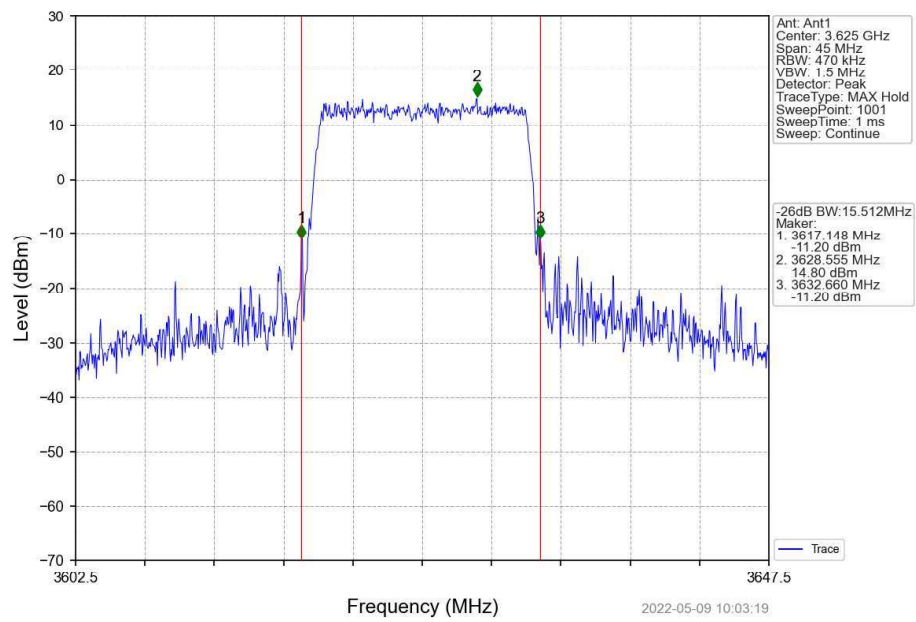


# Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV

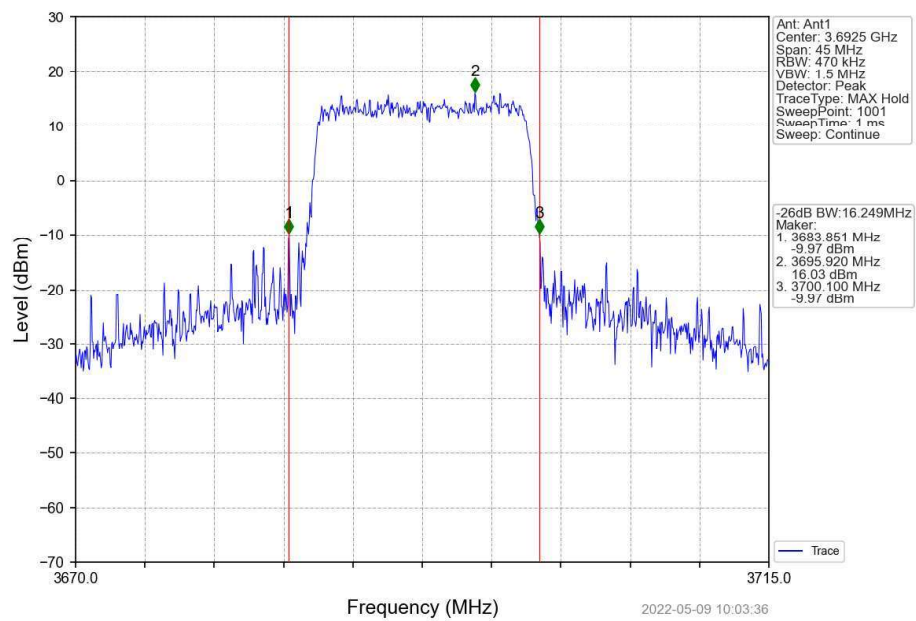




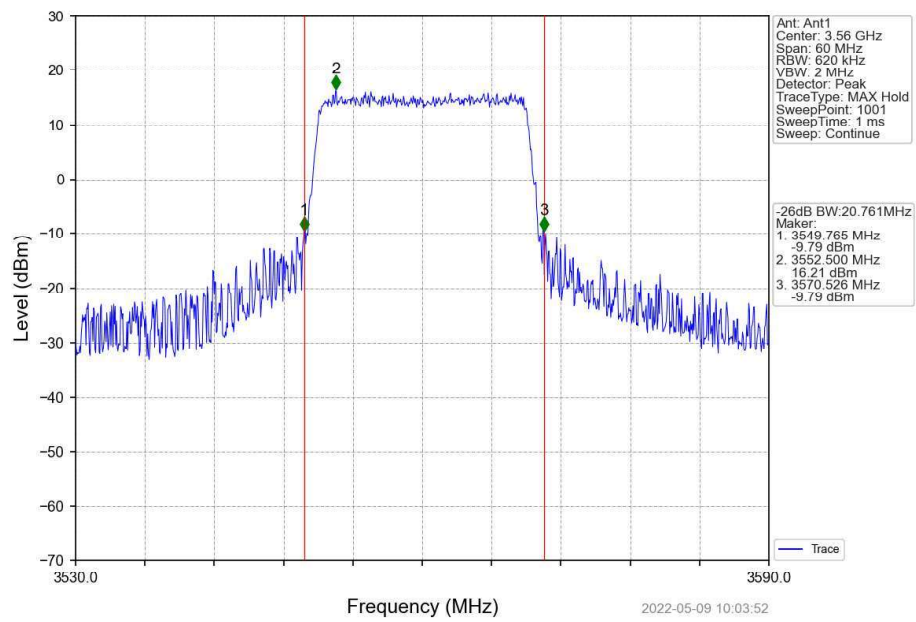
Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



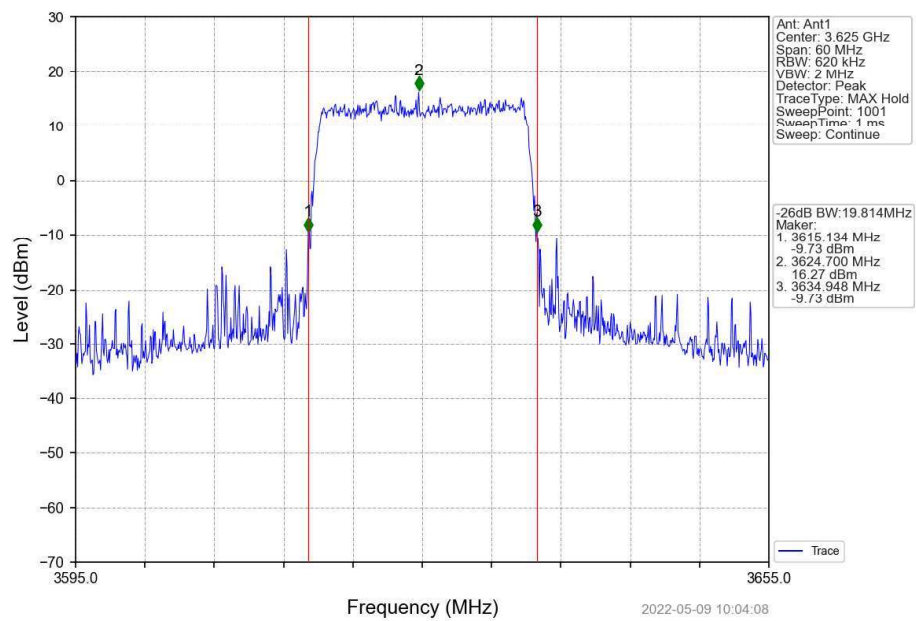
Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



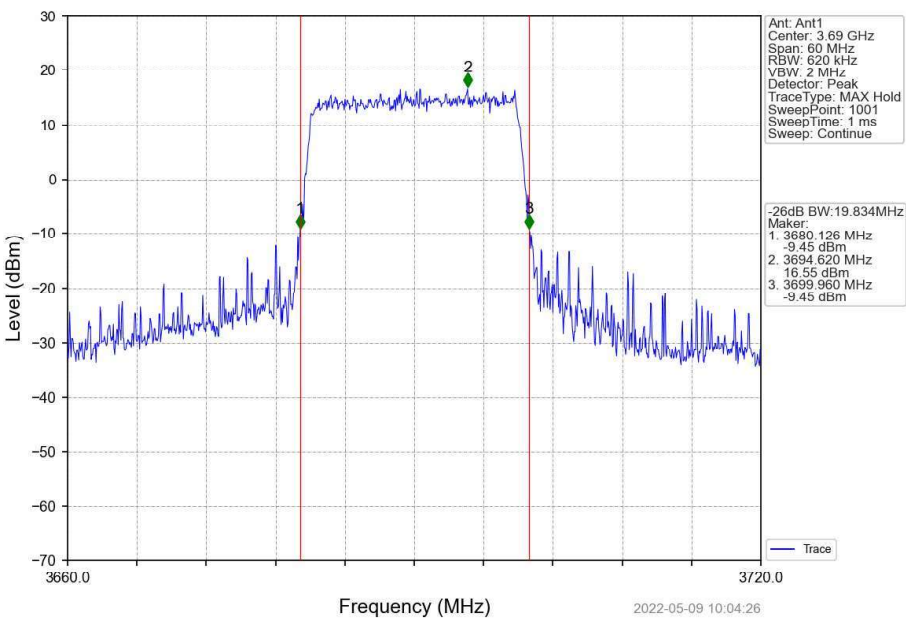
Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



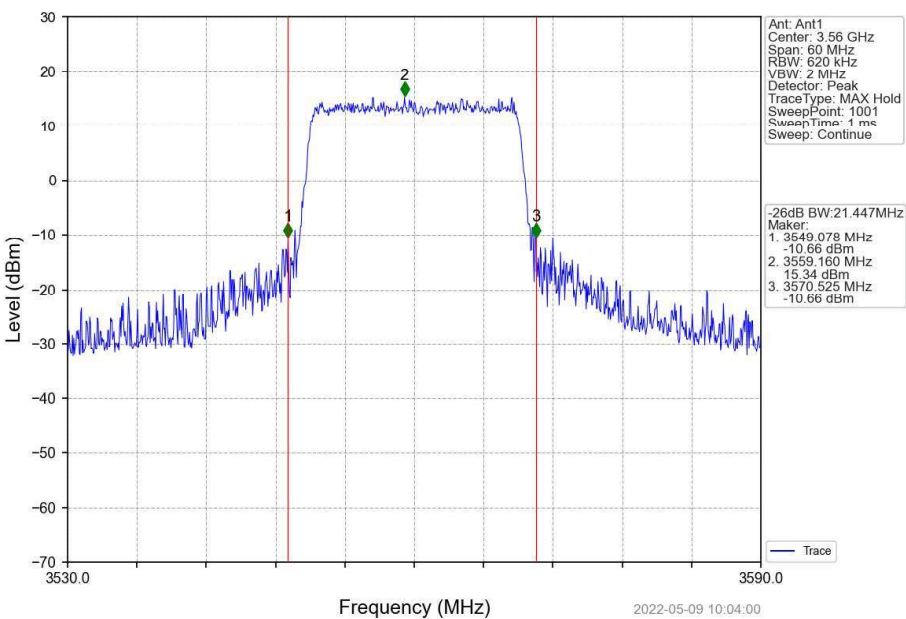
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV



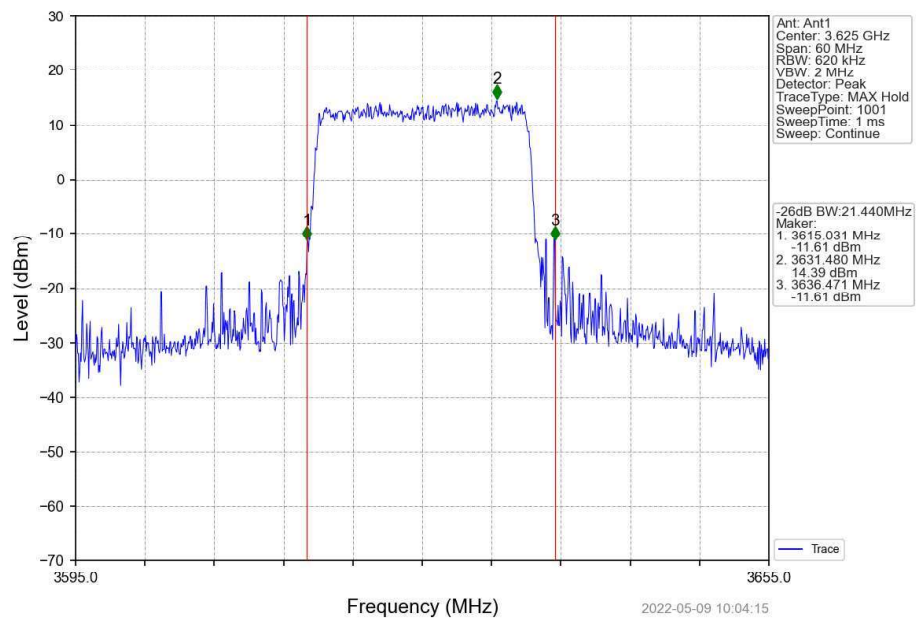
Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



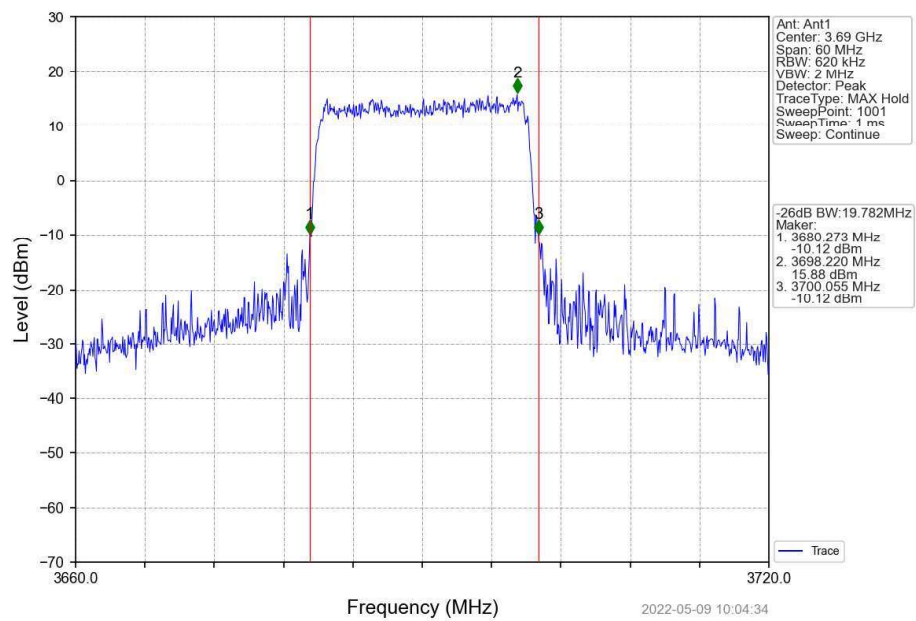
Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



# Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



# Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



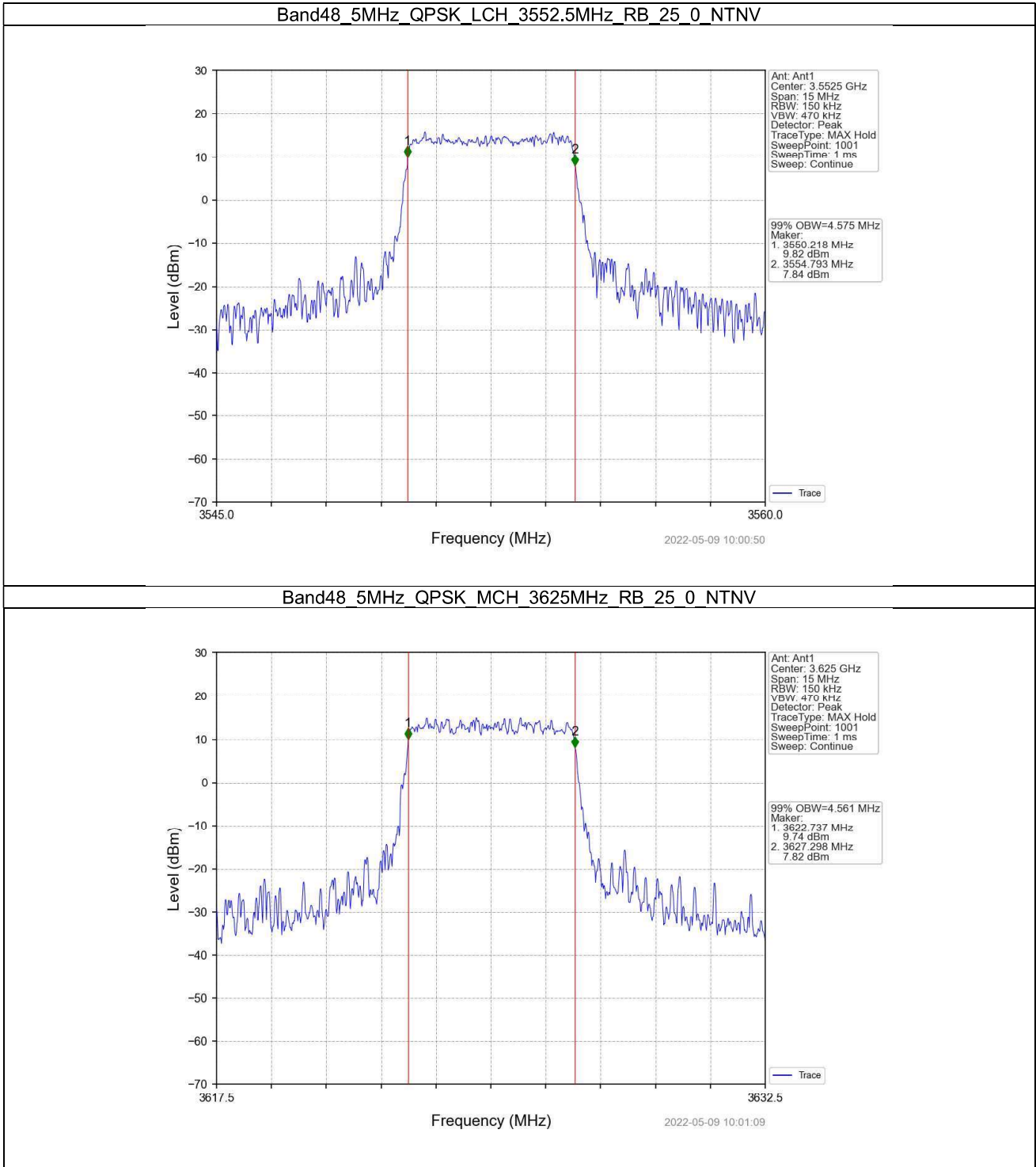
## 4. 99% & 26dB Bandwidth

### 4.1 Band48\_OBW

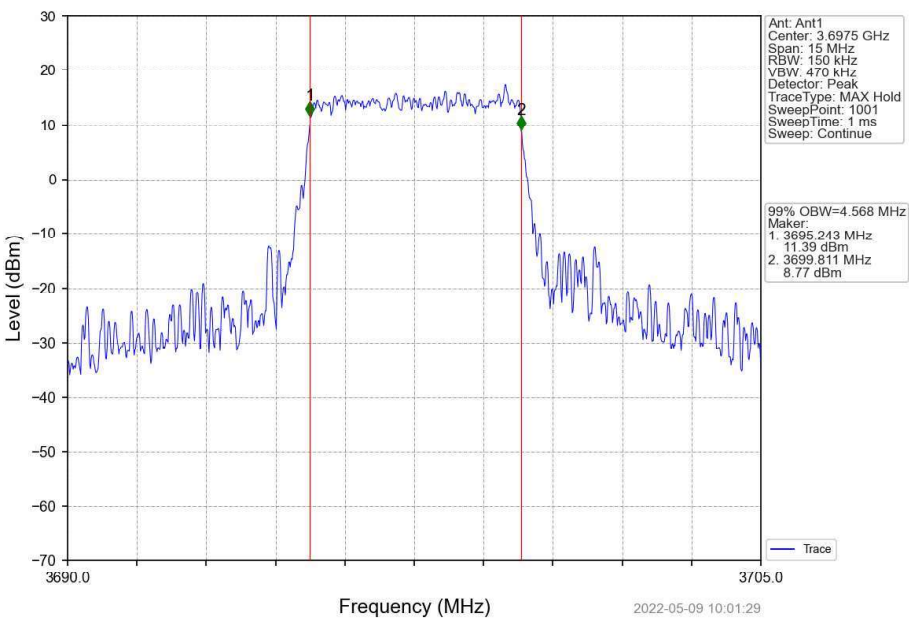
#### 4.1.1 Test Result

|                |                |                |                |                |                              |                |
|----------------|----------------|----------------|----------------|----------------|------------------------------|----------------|
| report_checked | report_checked | report_checked | report_checked | report_checked | report_checked               | report_checked |
| report_checked | report_checked | report_checked | report_checked | report_checked | 99% Occupied Bandwidth (MHz) | report_checked |
| report_checked | report_checked | report_checked | Size           | Offset         | Result                       | report_checked |
| report_checked | report_checked | 3552.5         | 25             | 0              | 4.575                        | Pass           |
| report_checked | report_checked | 3625           | 25             | 0              | 4.561                        | Pass           |
| report_checked | report_checked | 3697.5         | 25             | 0              | 4.568                        | Pass           |
| report_checked | report_checked | 3552.5         | 25             | 0              | 4.569                        | Pass           |
| report_checked | report_checked | 3625           | 25             | 0              | 4.567                        | Pass           |
| report_checked | report_checked | 3697.5         | 25             | 0              | 4.554                        | Pass           |
| report_checked | report_checked | 3555           | 50             | 0              | 9.090                        | Pass           |
| report_checked | report_checked | 3625           | 50             | 0              | 9.043                        | Pass           |
| report_checked | report_checked | 3695           | 50             | 0              | 9.051                        | Pass           |
| report_checked | report_checked | 3555           | 50             | 0              | 9.115                        | Pass           |
| report_checked | report_checked | 3625           | 50             | 0              | 9.064                        | Pass           |
| report_checked | report_checked | 3695           | 50             | 0              | 9.074                        | Pass           |
| report_checked | report_checked | 3557.5         | 75             | 0              | 13.638                       | Pass           |
| report_checked | report_checked | 3625           | 75             | 0              | 13.576                       | Pass           |
| report_checked | report_checked | 3692.5         | 75             | 0              | 13.615                       | Pass           |
| report_checked | report_checked | 3557.5         | 75             | 0              | 13.617                       | Pass           |
| report_checked | report_checked | 3625           | 75             | 0              | 13.550                       | Pass           |
| report_checked | report_checked | 3692.5         | 75             | 0              | 13.629                       | Pass           |
| report_checked | report_checked | 3560           | 100            | 0              | 18.155                       | Pass           |
| report_checked | report_checked | 3625           | 100            | 0              | 18.066                       | Pass           |
| report_checked | report_checked | 3690           | 100            | 0              | 18.045                       | Pass           |
| report_checked | report_checked | 3560           | 100            | 0              | 18.125                       | Pass           |
| report_checked | report_checked | 3625           | 100            | 0              | 18.171                       | Pass           |
| report_checked | report_checked | 3690           | 100            | 0              | 18.082                       | Pass           |

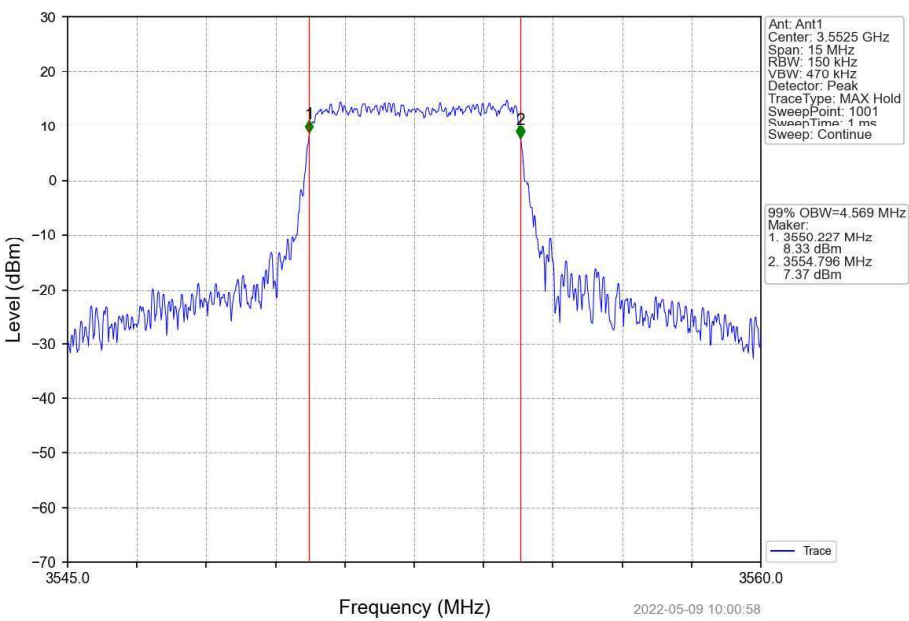
4.1.2 Test Graph



Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

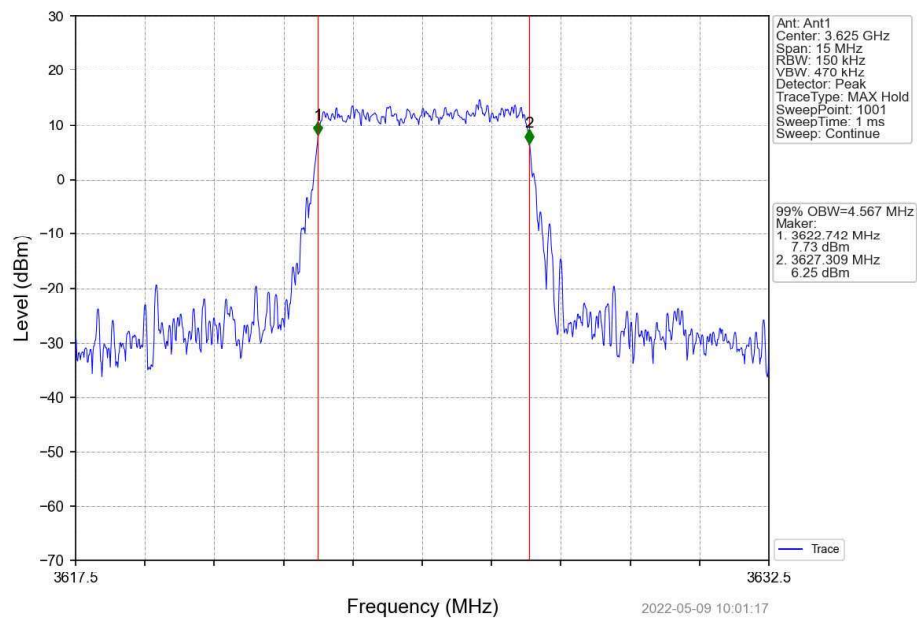


Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV

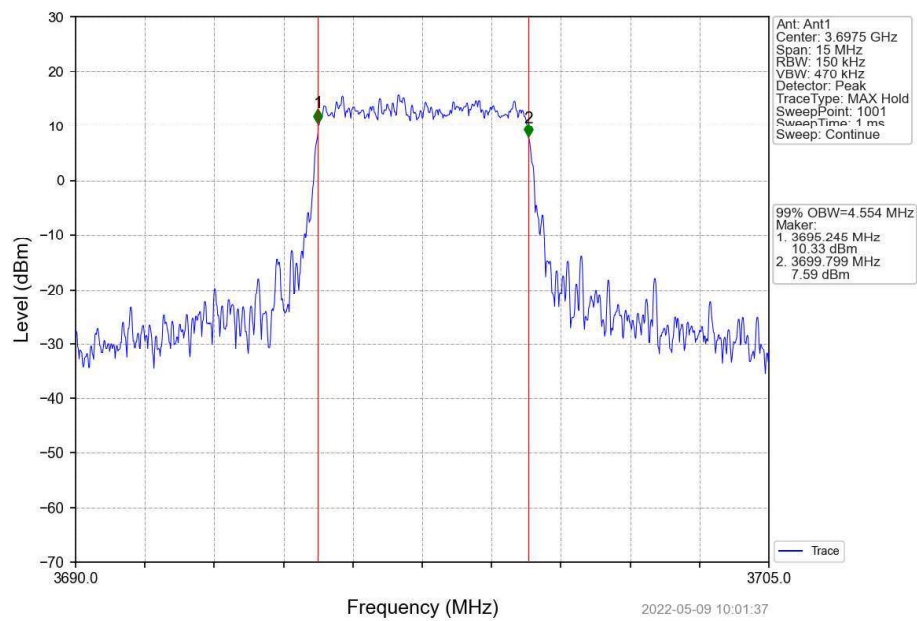




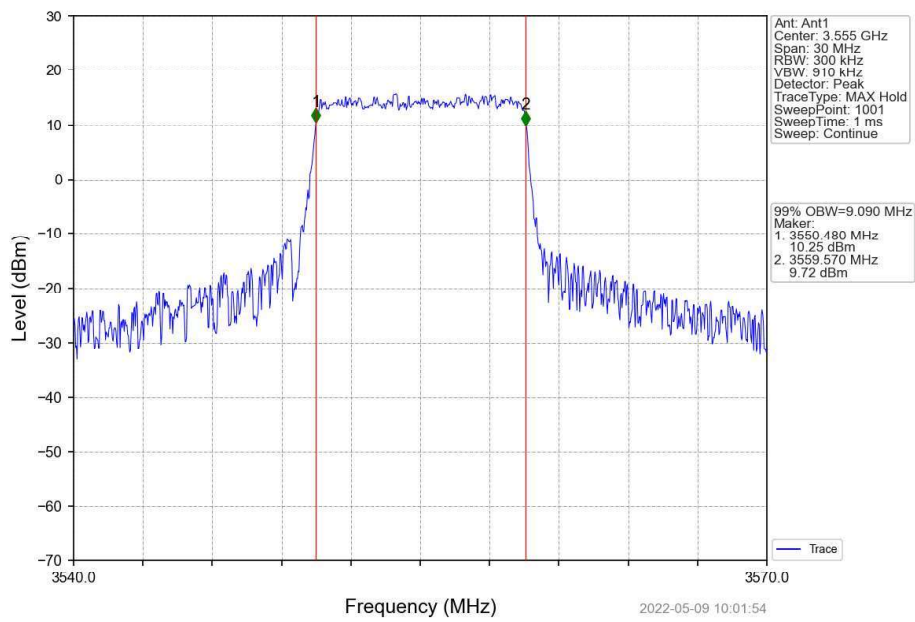
Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



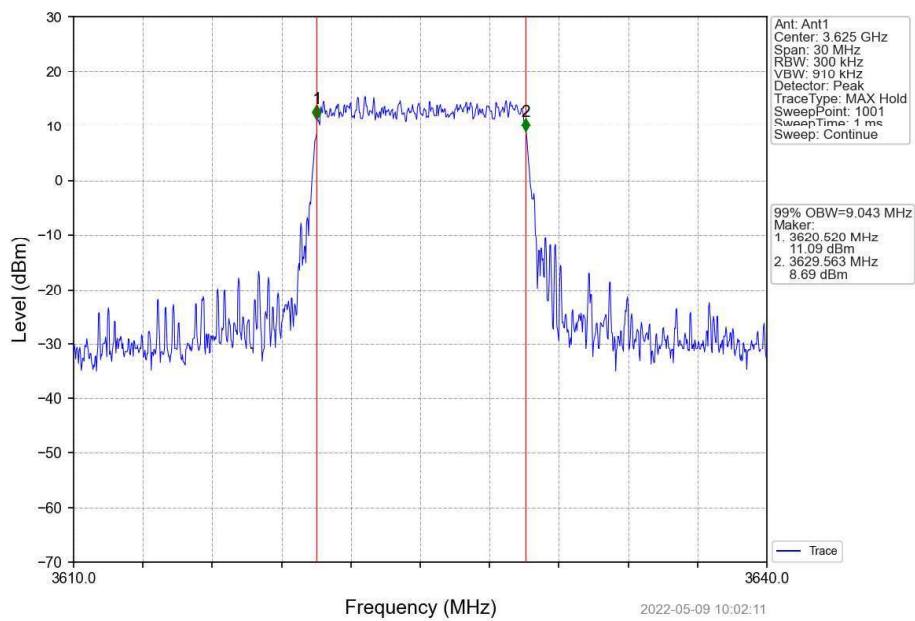
Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



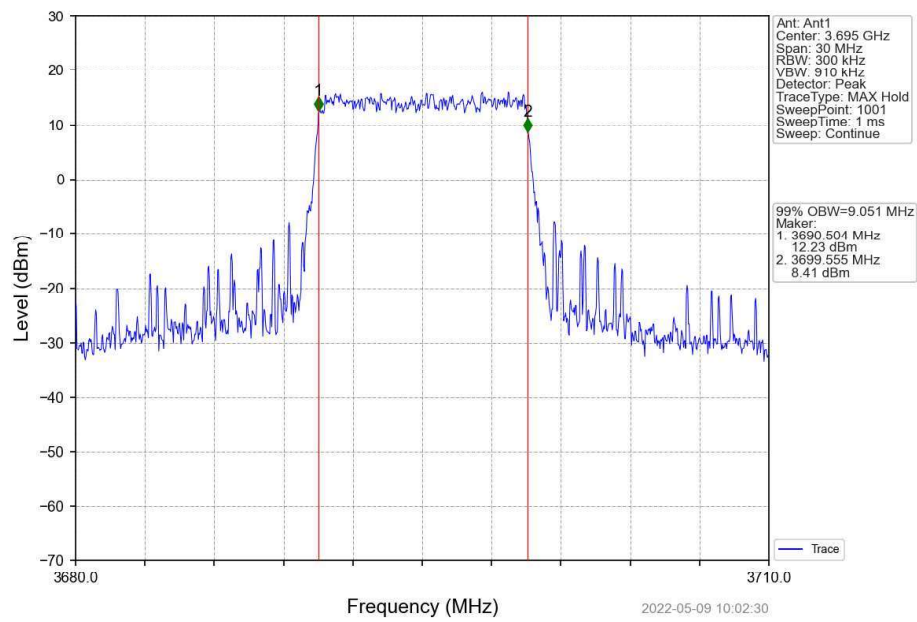
# Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



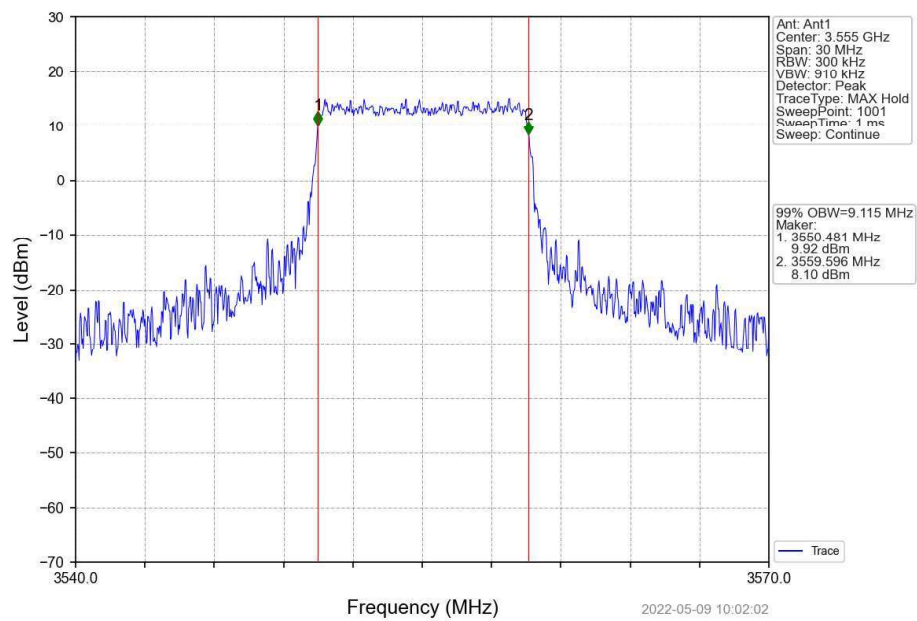
# Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



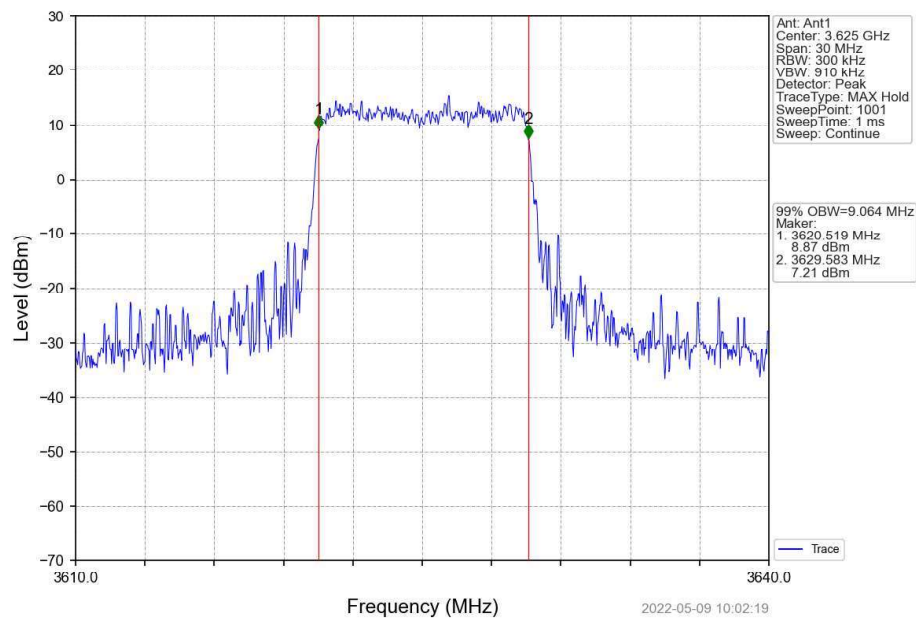
# Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



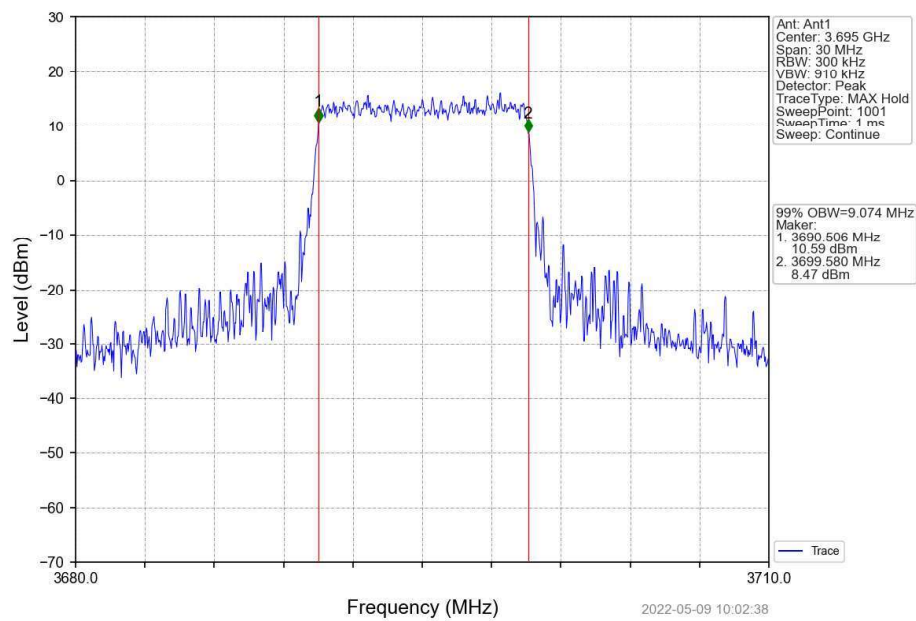
# Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



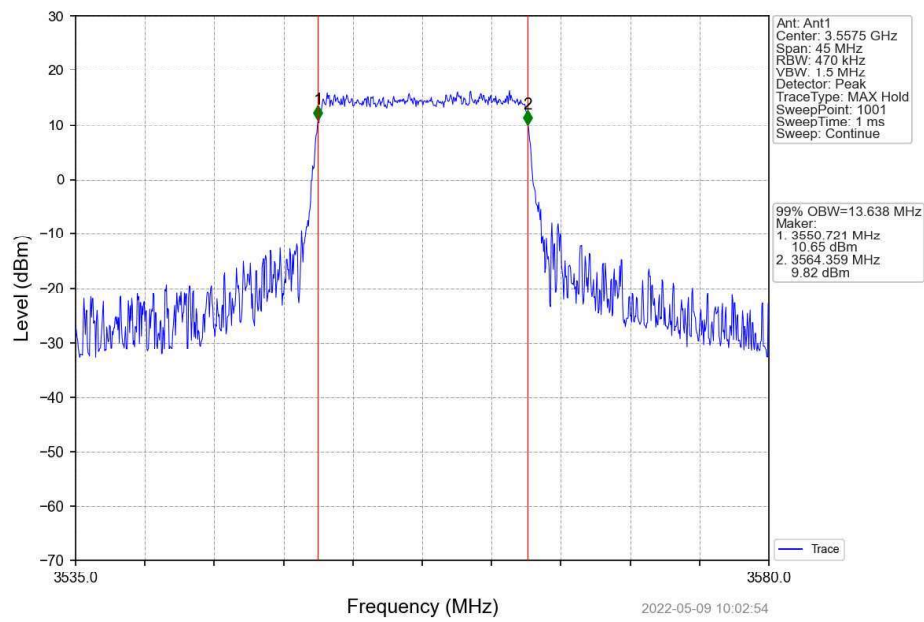
Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



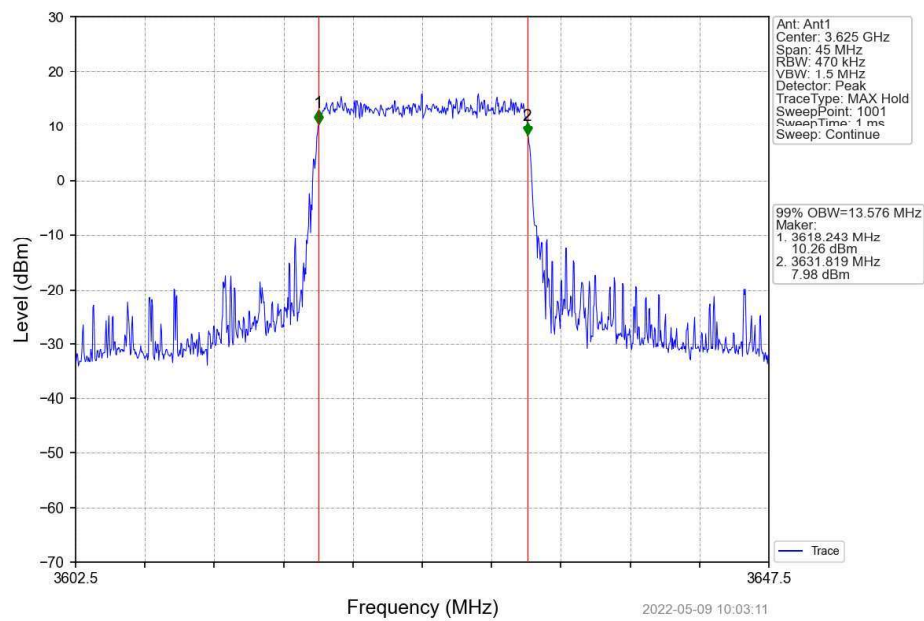
Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



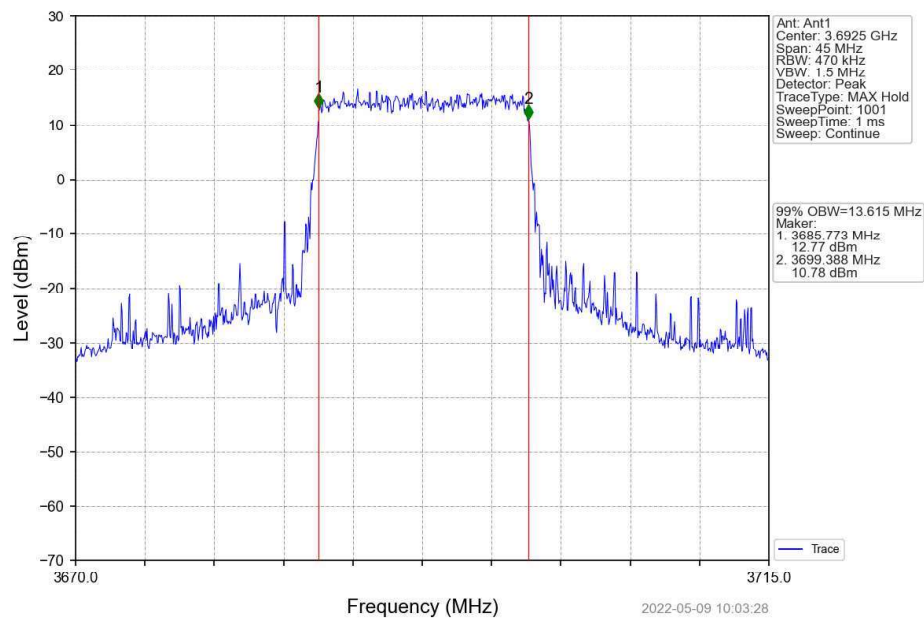
Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



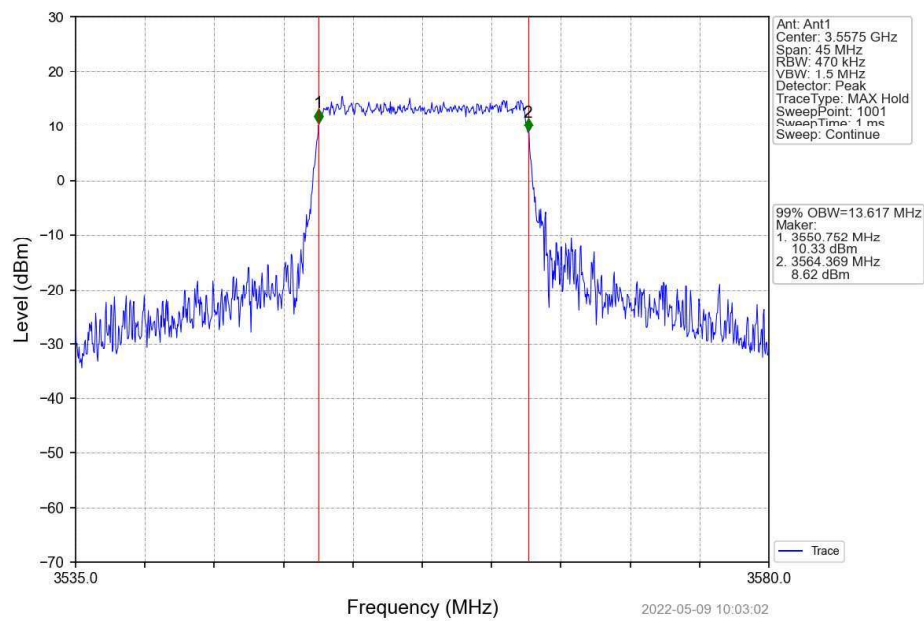
Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV



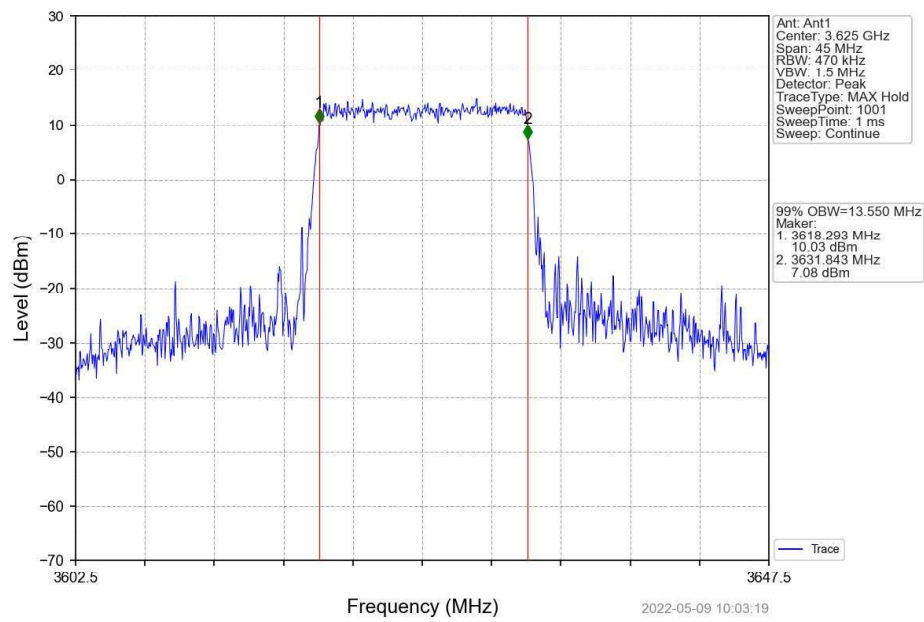
# Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



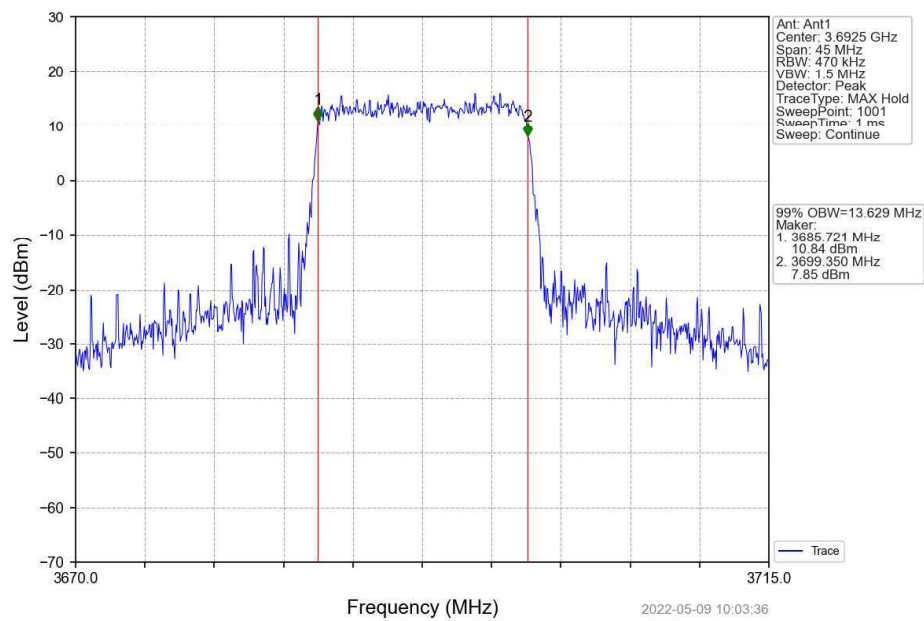
# Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



# Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV

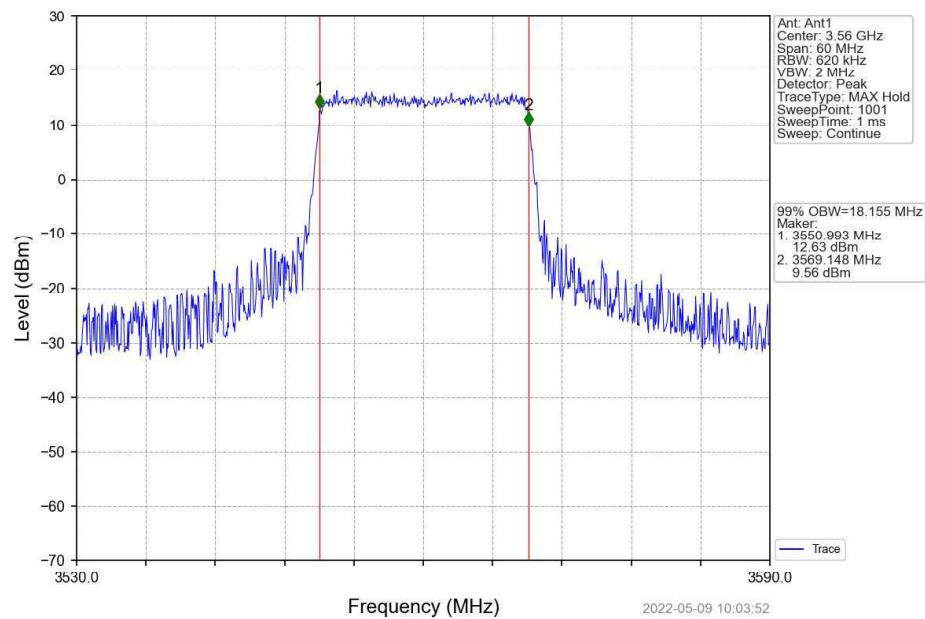


# Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV

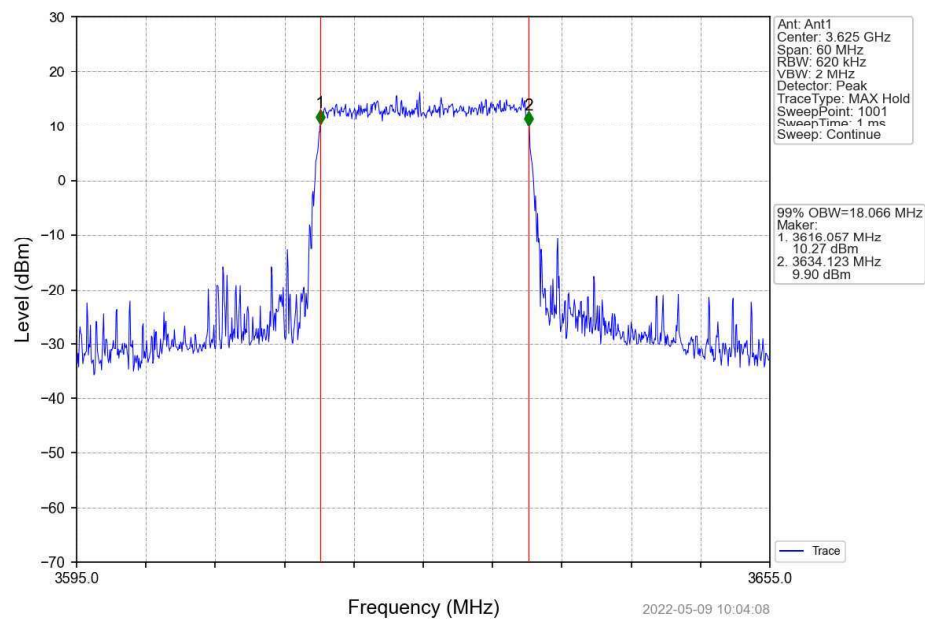




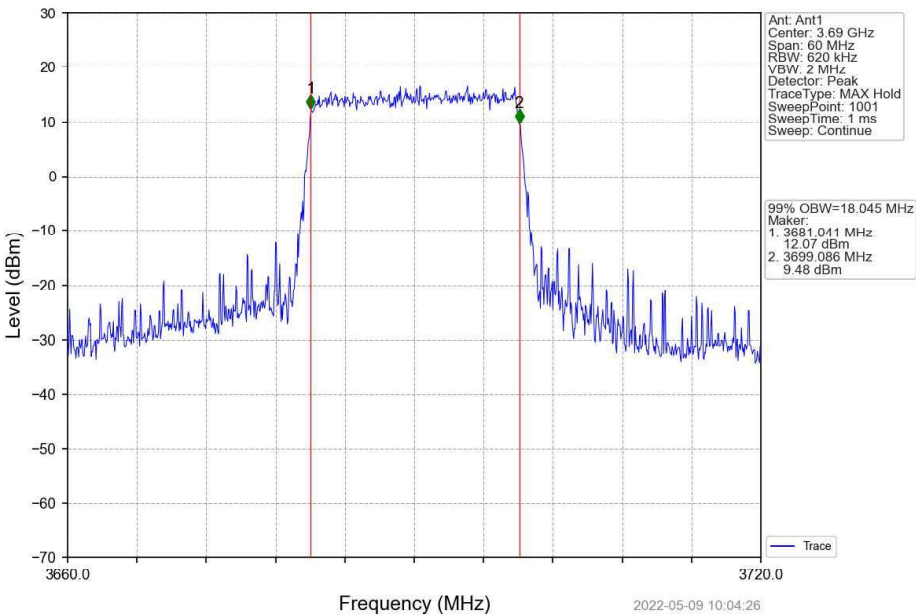
Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



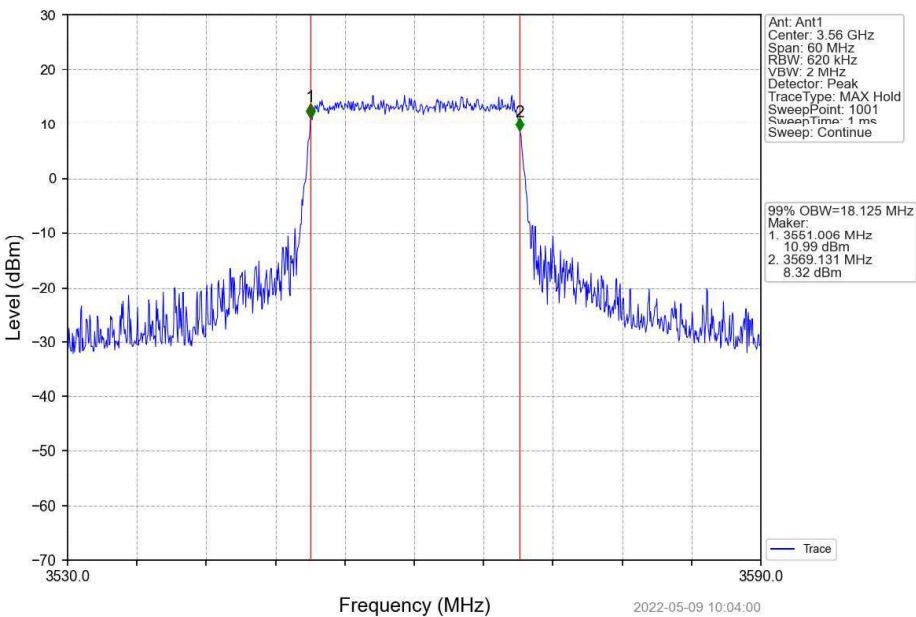
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV



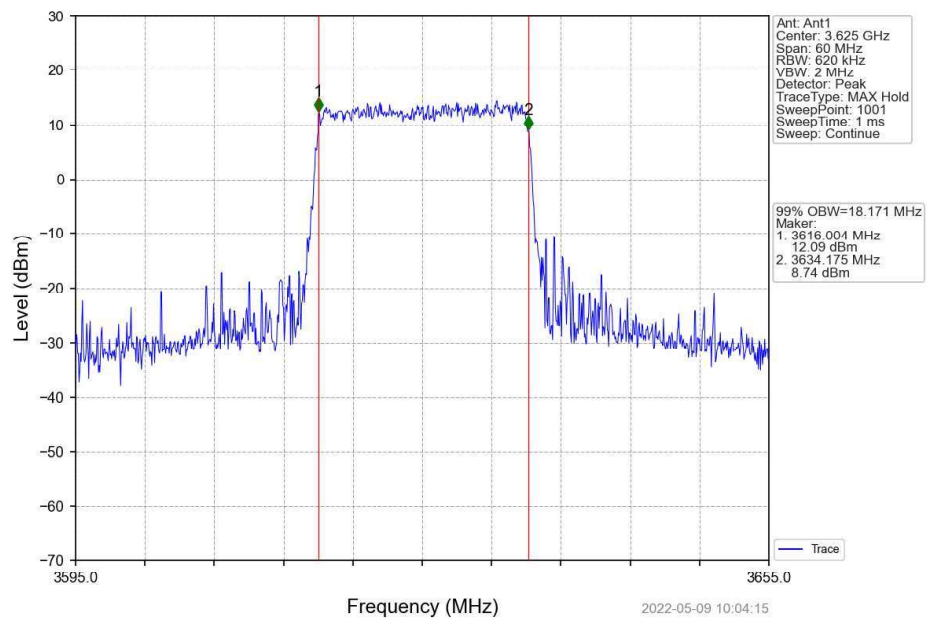
Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



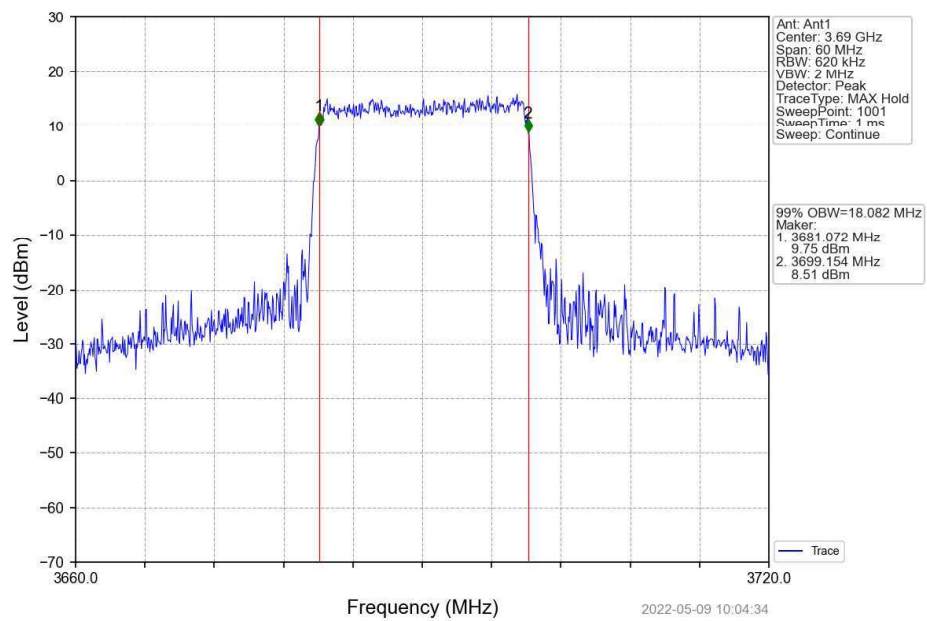
Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV

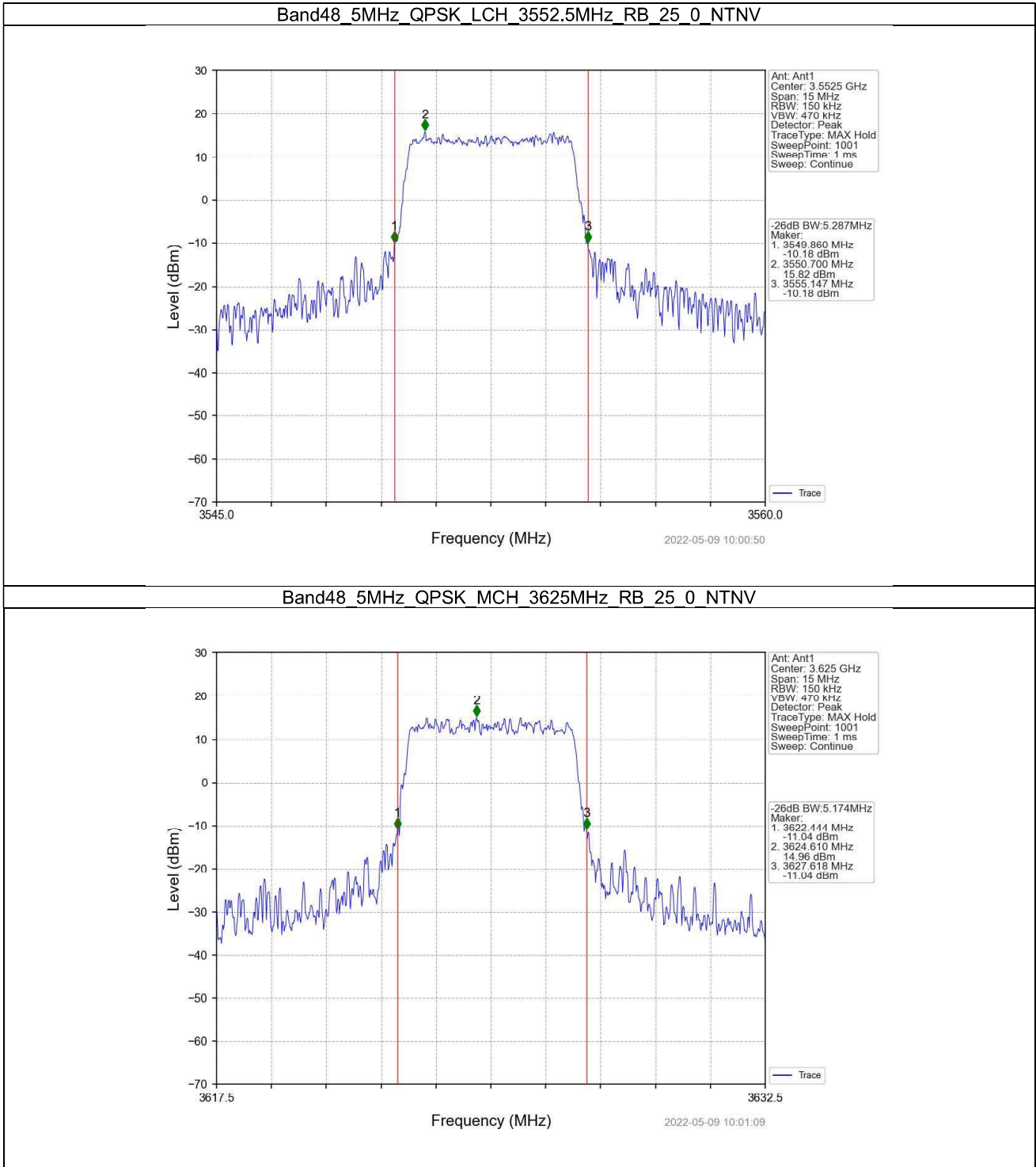


## 4.2 Band48\_XDB

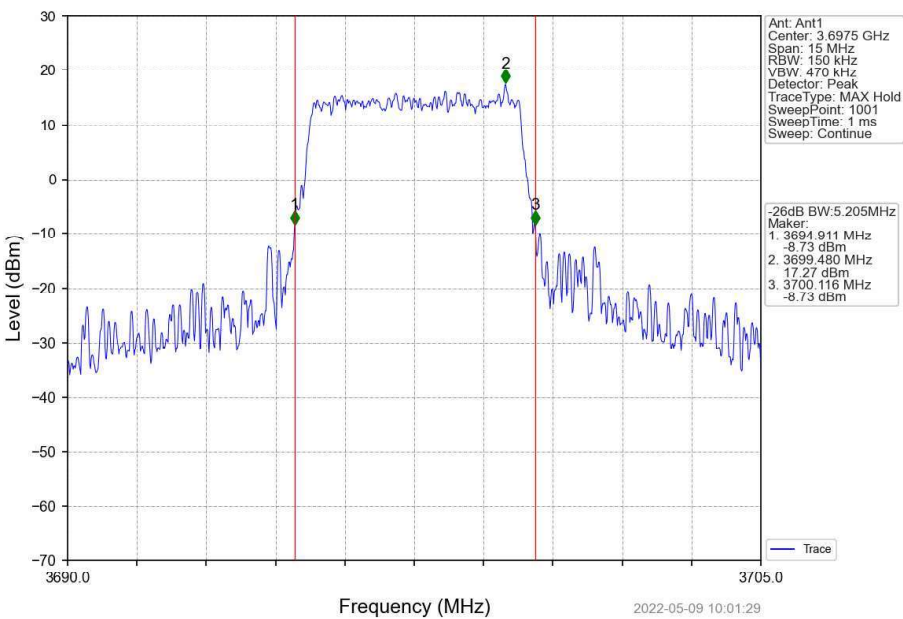
### 4.2.1 Test Result

|                |                |                |                |                |                      |                |
|----------------|----------------|----------------|----------------|----------------|----------------------|----------------|
| report_checked | report_checked | report_checked | report_checked | report_checked | report_checked       | report_checked |
| report_checked | report_checked | report_checked | report_checked | report_checked | 26dB Bandwidth (MHz) | report_checked |
| report_checked | report_checked | report_checked | Size           | Offset         | Result               | report_checked |
| report_checked | report_checked | 3552.5         | 25             | 0              | 5.287                | Pass           |
| report_checked | report_checked | 3625           | 25             | 0              | 5.174                | Pass           |
| report_checked | report_checked | 3697.5         | 25             | 0              | 5.205                | Pass           |
| report_checked | report_checked | 3552.5         | 25             | 0              | 5.707                | Pass           |
| report_checked | report_checked | 3625           | 25             | 0              | 5.421                | Pass           |
| report_checked | report_checked | 3697.5         | 25             | 0              | 5.194                | Pass           |
| report_checked | report_checked | 3555           | 50             | 0              | 10.257               | Pass           |
| report_checked | report_checked | 3625           | 50             | 0              | 10.632               | Pass           |
| report_checked | report_checked | 3695           | 50             | 0              | 11.570               | Pass           |
| report_checked | report_checked | 3555           | 50             | 0              | 12.065               | Pass           |
| report_checked | report_checked | 3625           | 50             | 0              | 10.827               | Pass           |
| report_checked | report_checked | 3695           | 50             | 0              | 10.556               | Pass           |
| report_checked | report_checked | 3557.5         | 75             | 0              | 16.696               | Pass           |
| report_checked | report_checked | 3625           | 75             | 0              | 14.878               | Pass           |
| report_checked | report_checked | 3692.5         | 75             | 0              | 16.584               | Pass           |
| report_checked | report_checked | 3557.5         | 75             | 0              | 17.382               | Pass           |
| report_checked | report_checked | 3625           | 75             | 0              | 15.512               | Pass           |
| report_checked | report_checked | 3692.5         | 75             | 0              | 16.249               | Pass           |
| report_checked | report_checked | 3560           | 100            | 0              | 20.761               | Pass           |
| report_checked | report_checked | 3625           | 100            | 0              | 19.814               | Pass           |
| report_checked | report_checked | 3690           | 100            | 0              | 19.834               | Pass           |
| report_checked | report_checked | 3560           | 100            | 0              | 21.447               | Pass           |
| report_checked | report_checked | 3625           | 100            | 0              | 21.440               | Pass           |
| report_checked | report_checked | 3690           | 100            | 0              | 19.782               | Pass           |

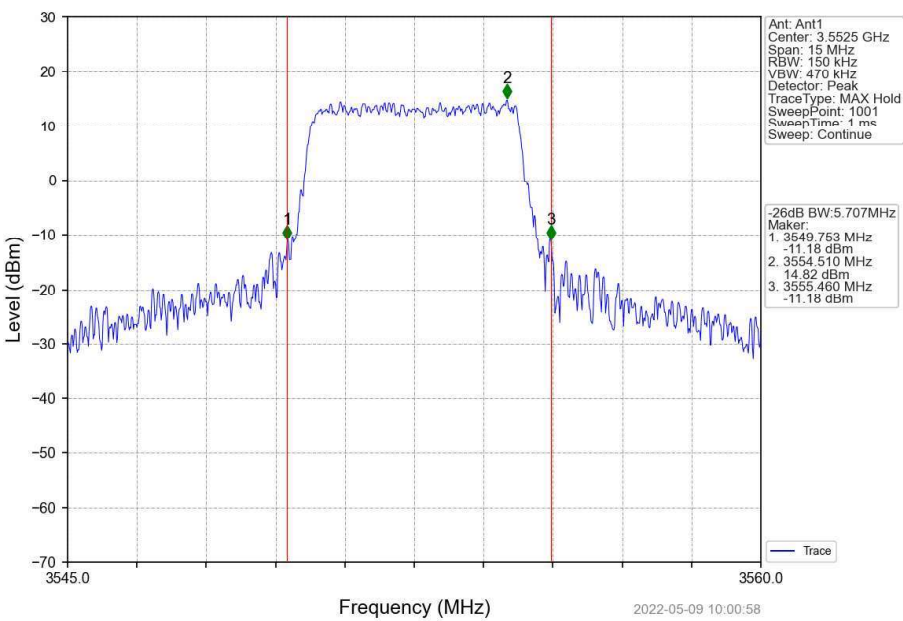
4.2.2 Test Graph



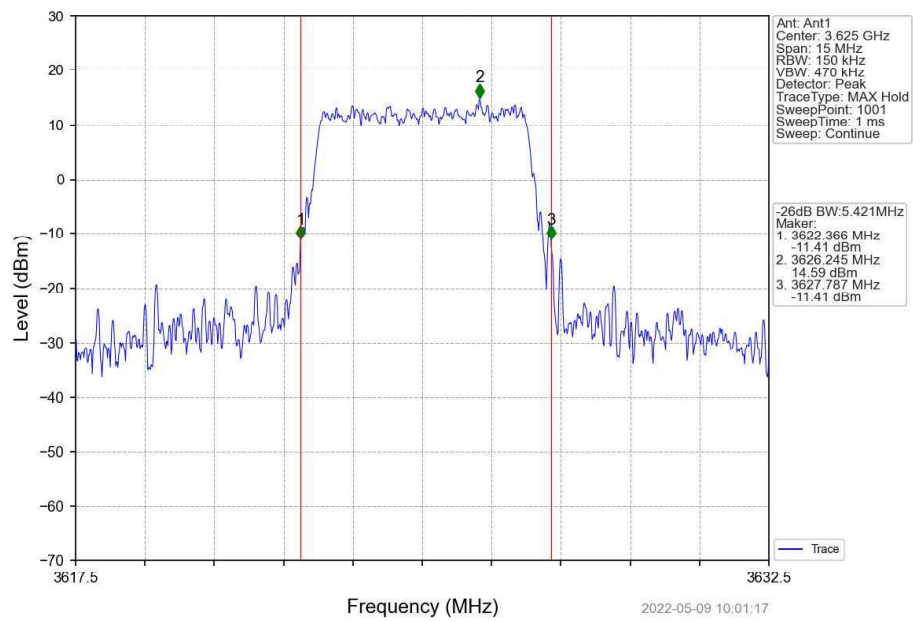
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



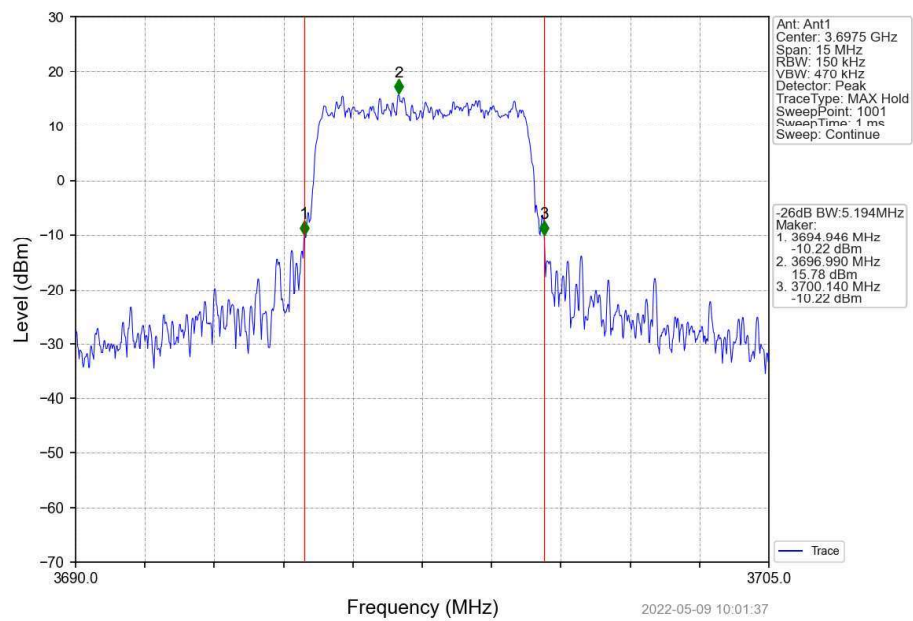
Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



# Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV

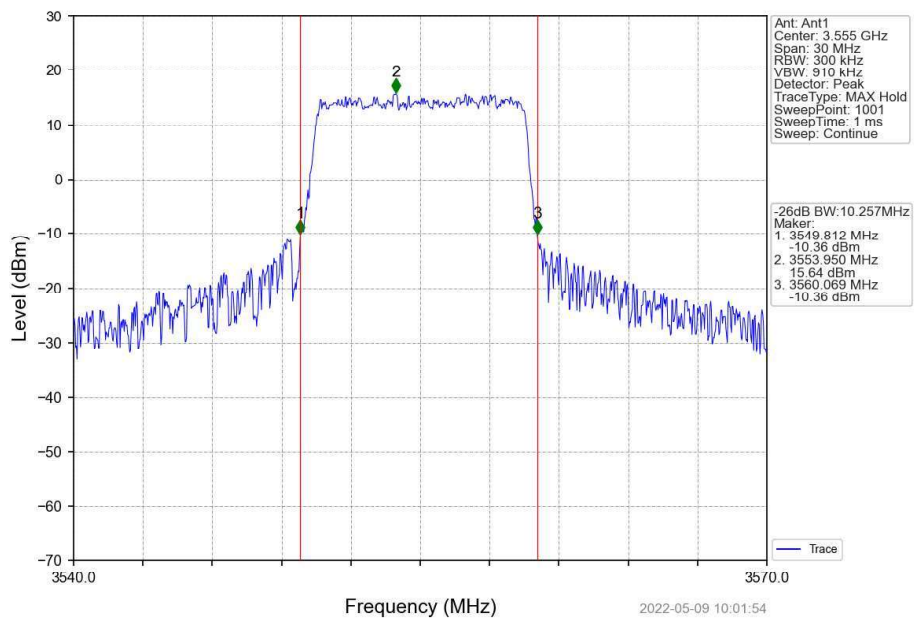


# Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

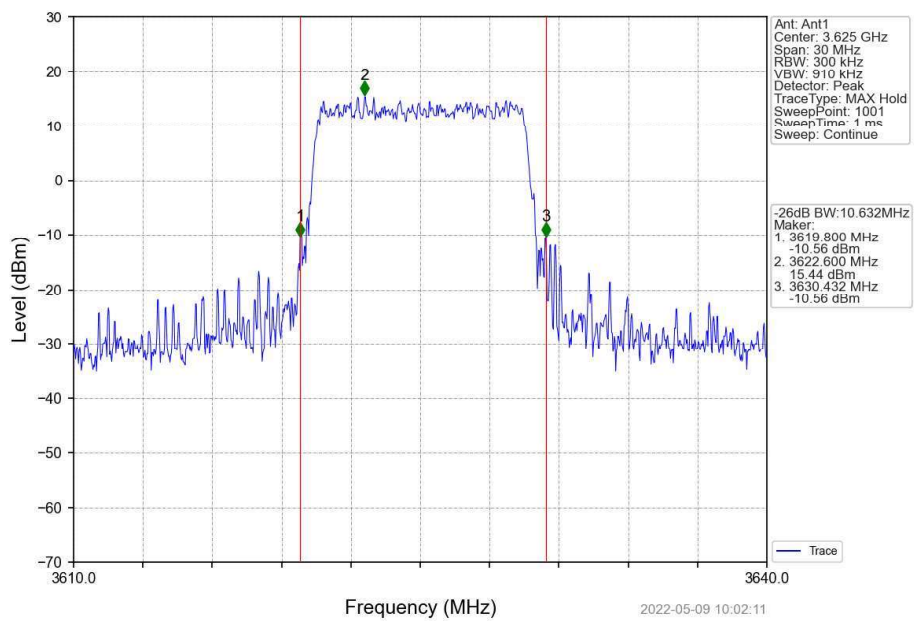




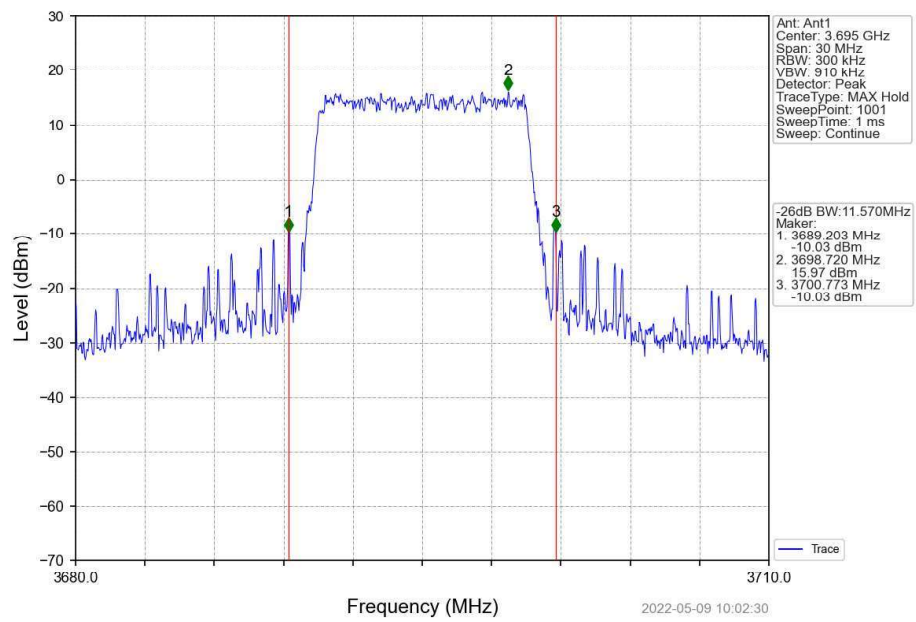
# Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



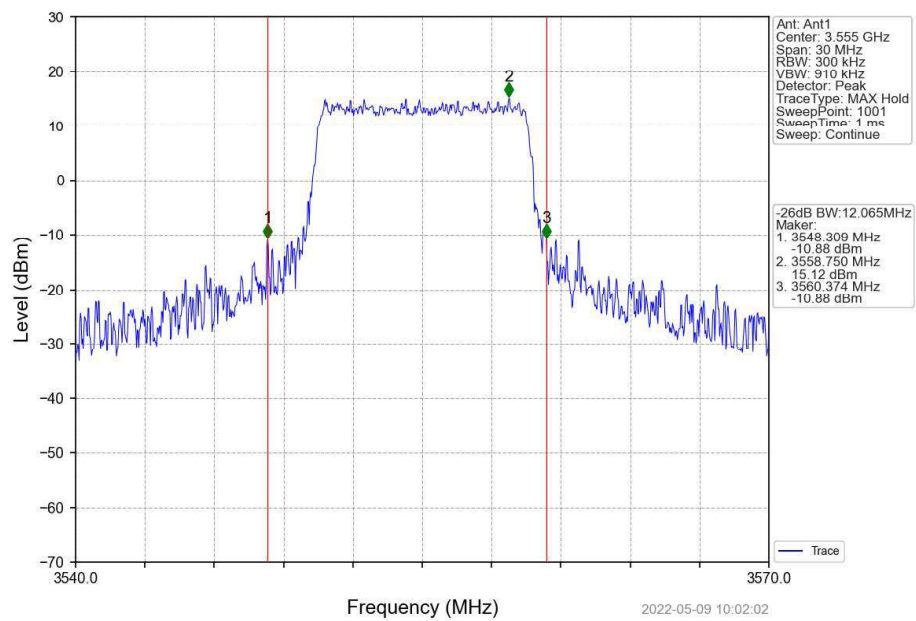
# Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



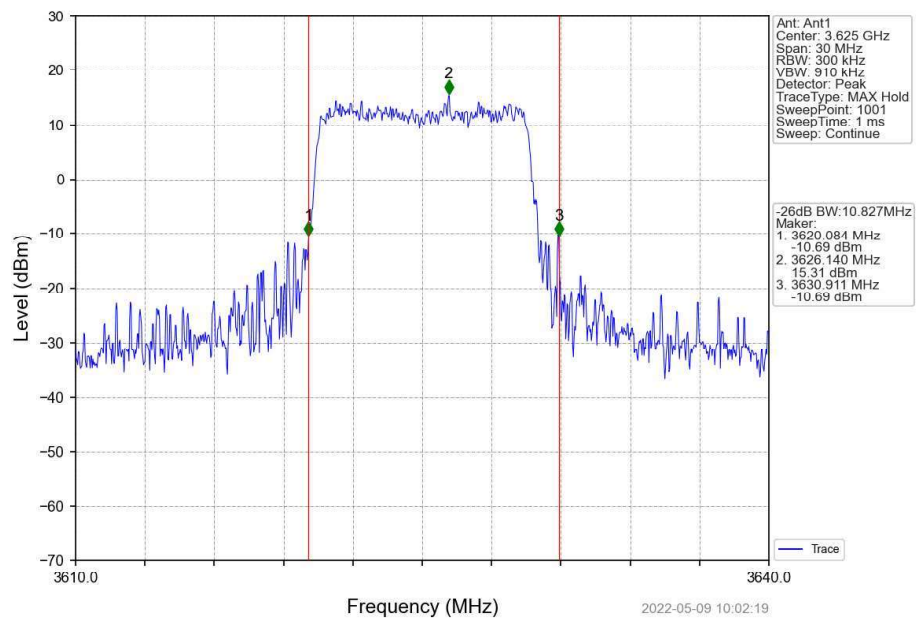
# Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



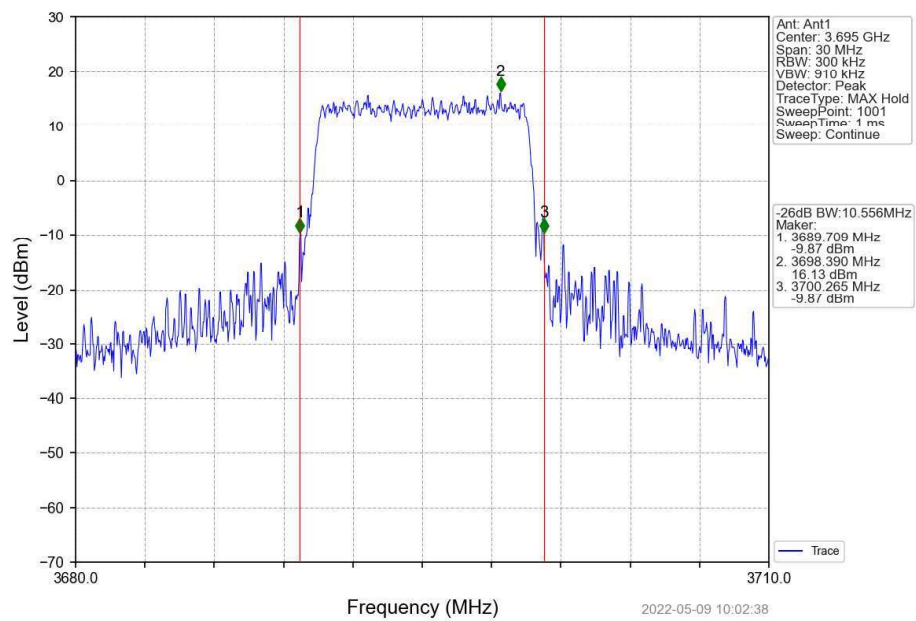
# Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



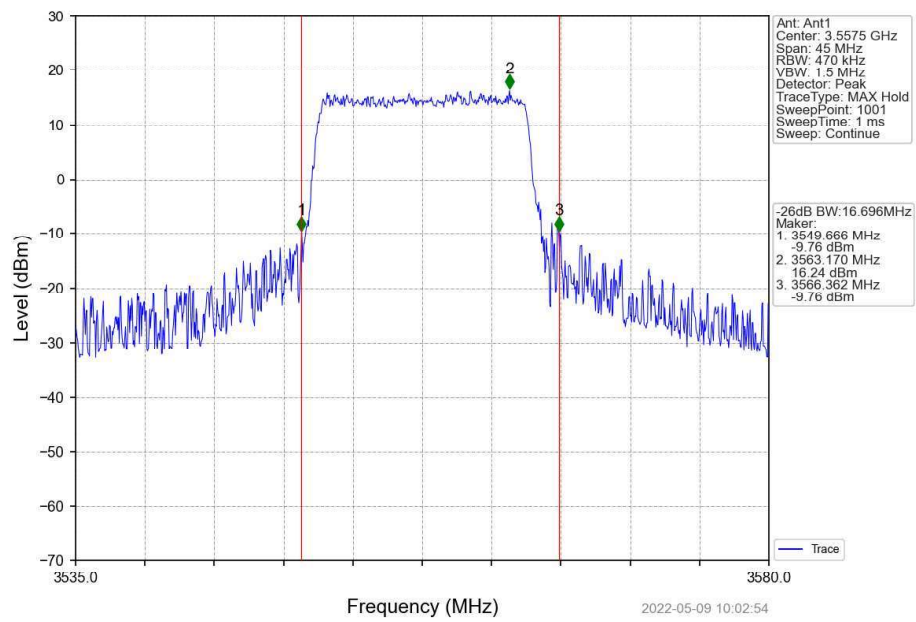
# Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



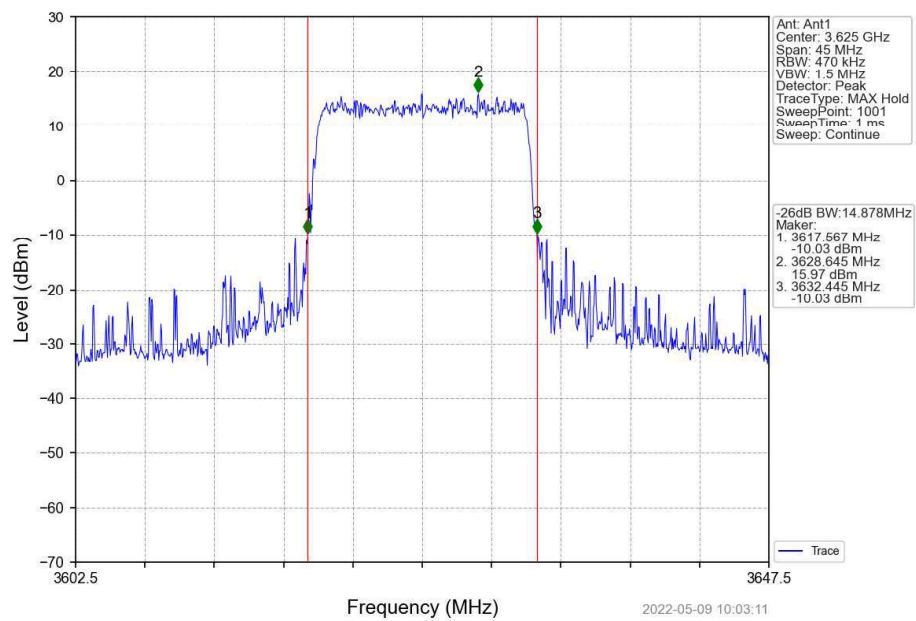
# Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



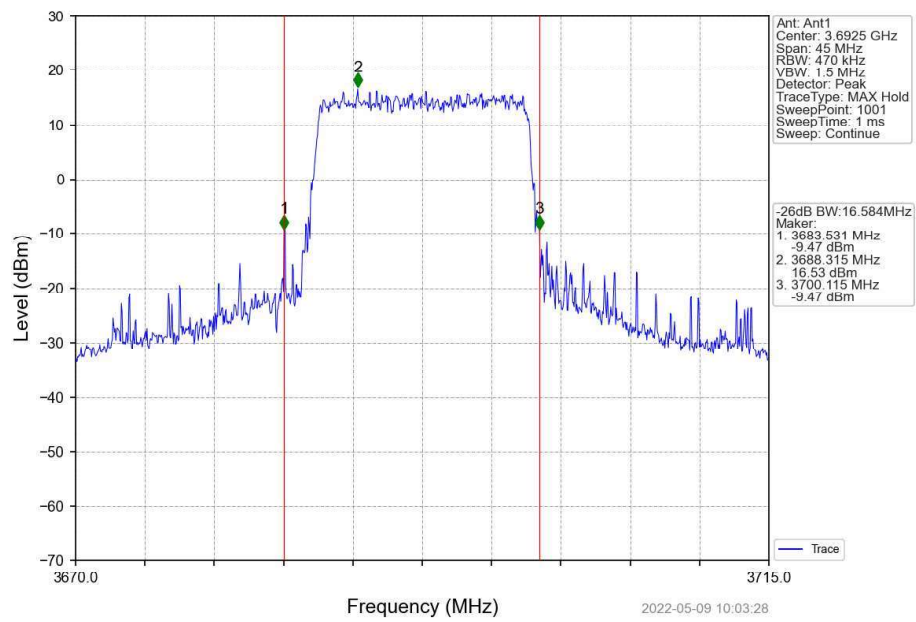
# Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



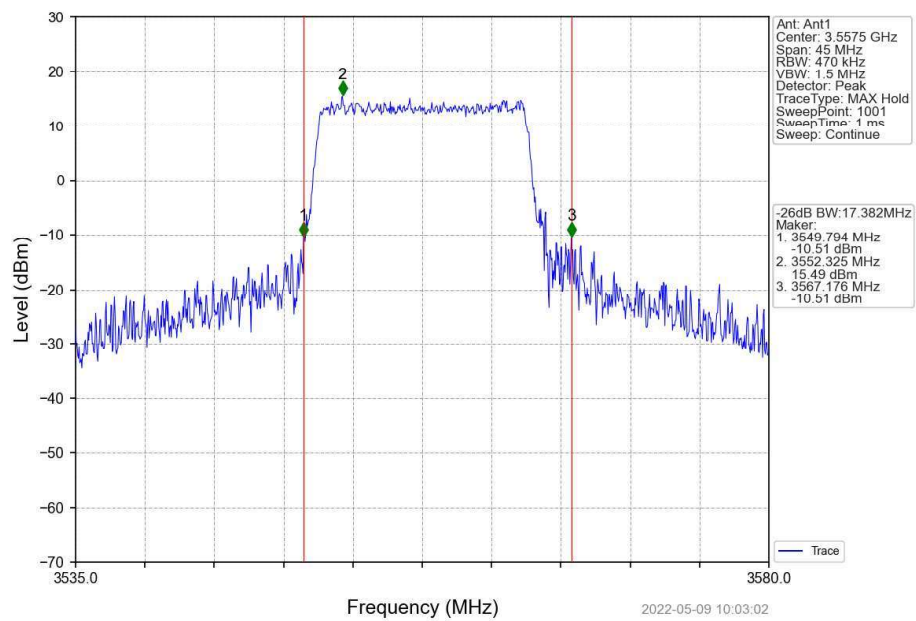
# Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV



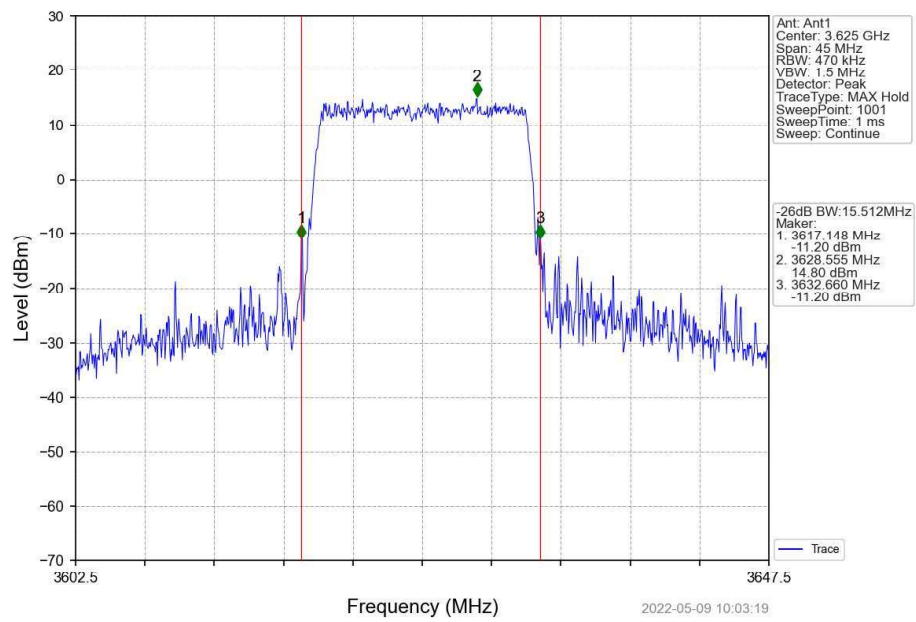
# Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



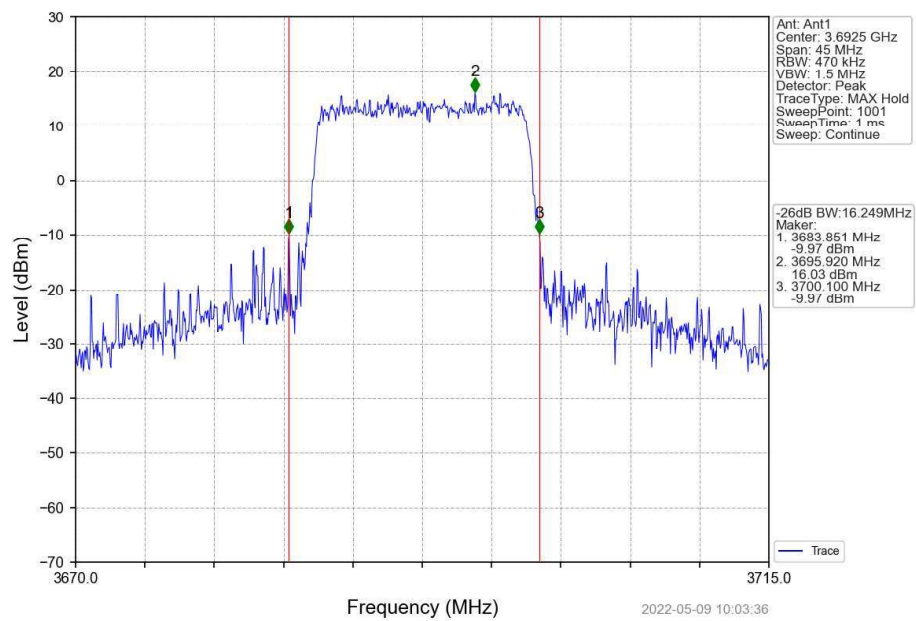
# Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV

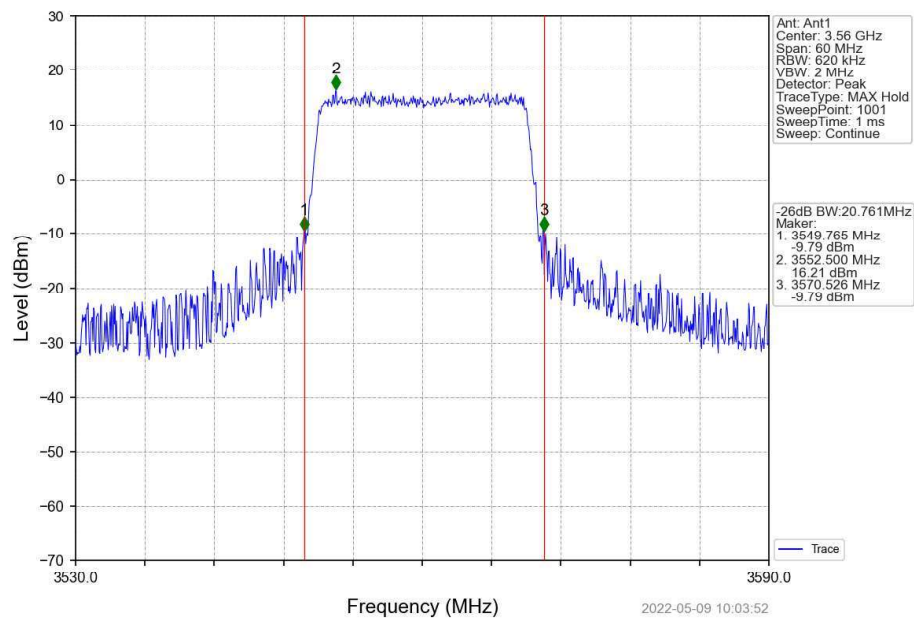


Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV





Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV

