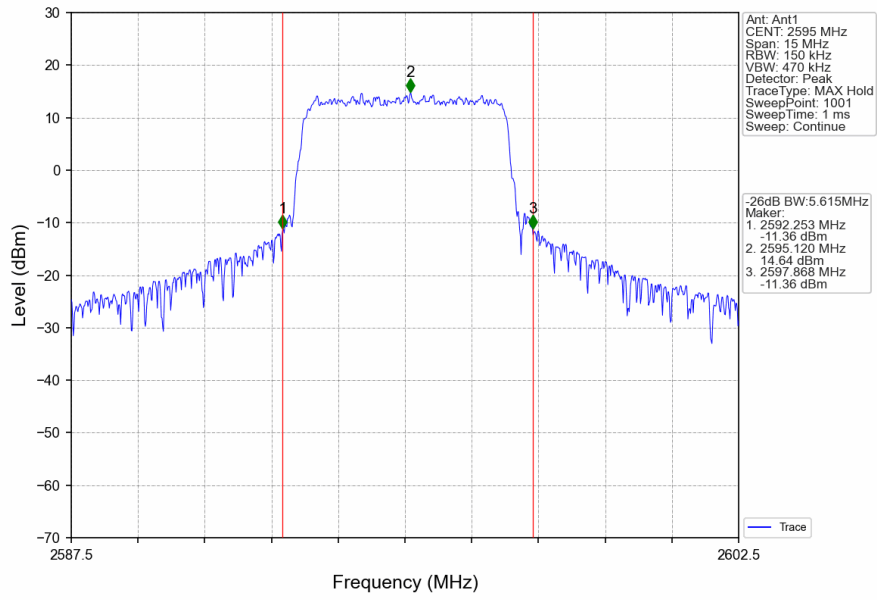
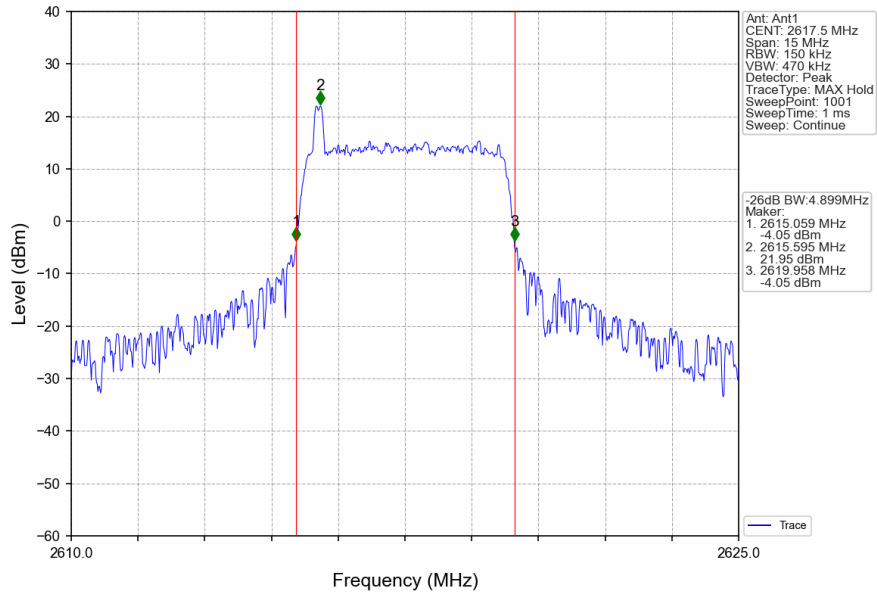


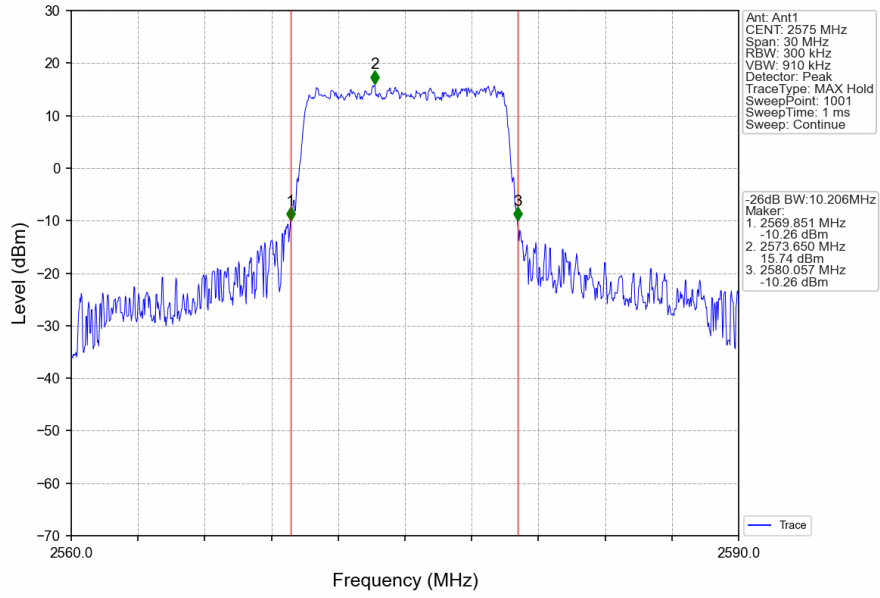
Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



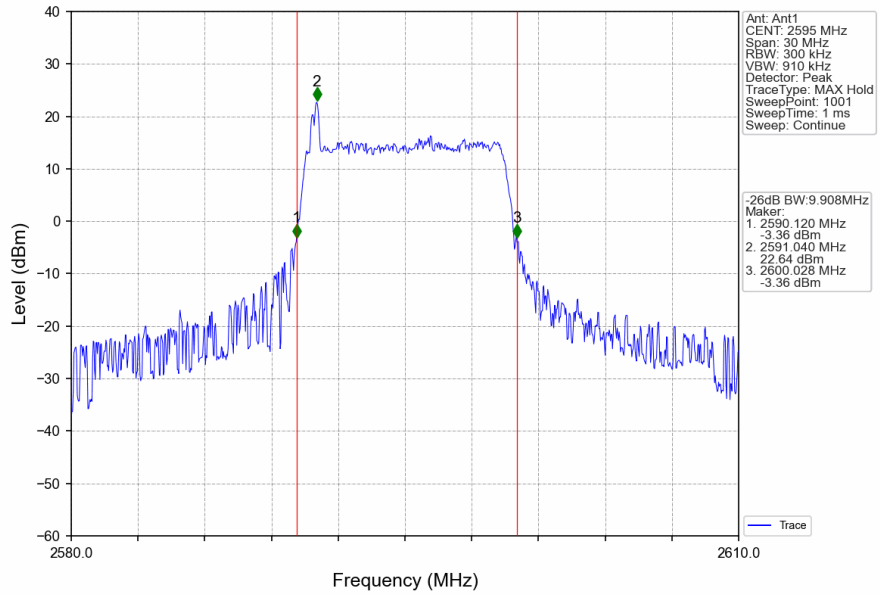
Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



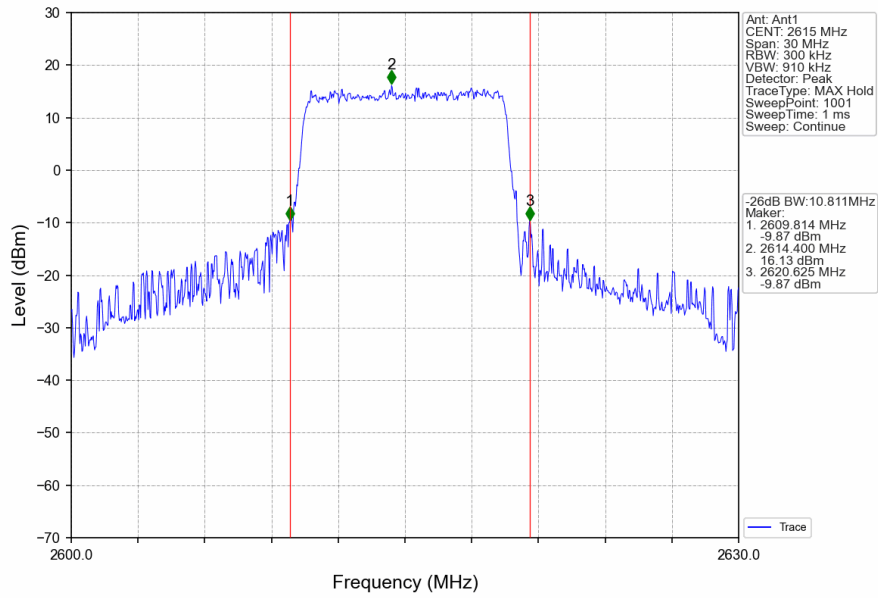
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



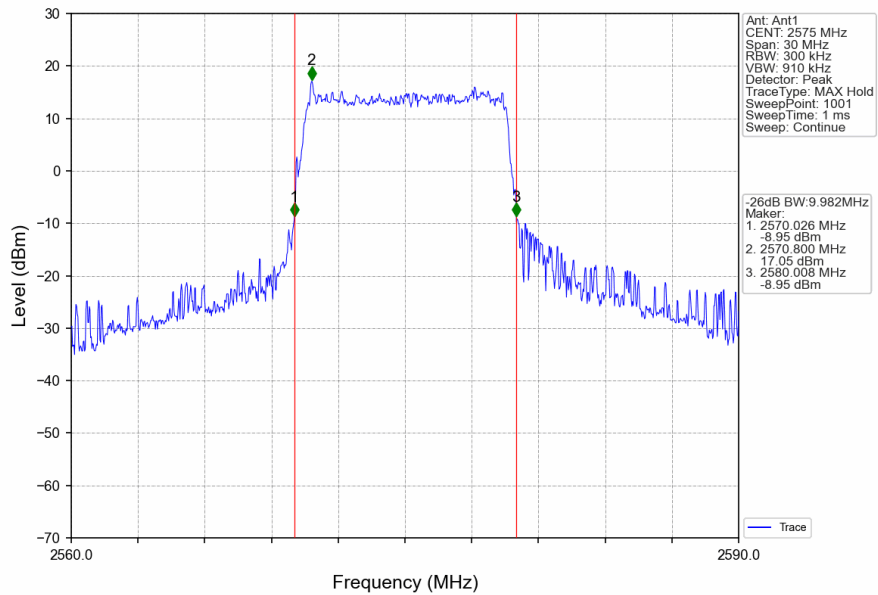
Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



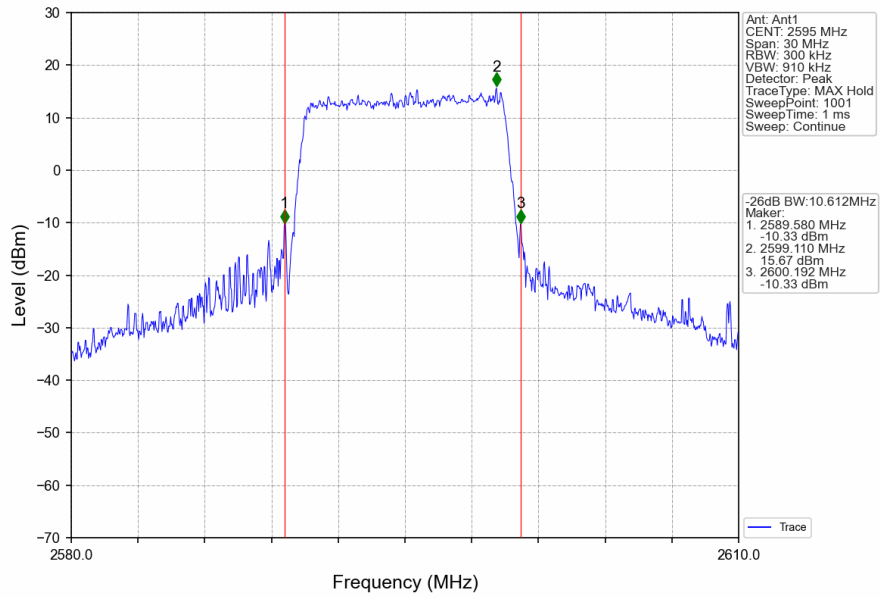
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



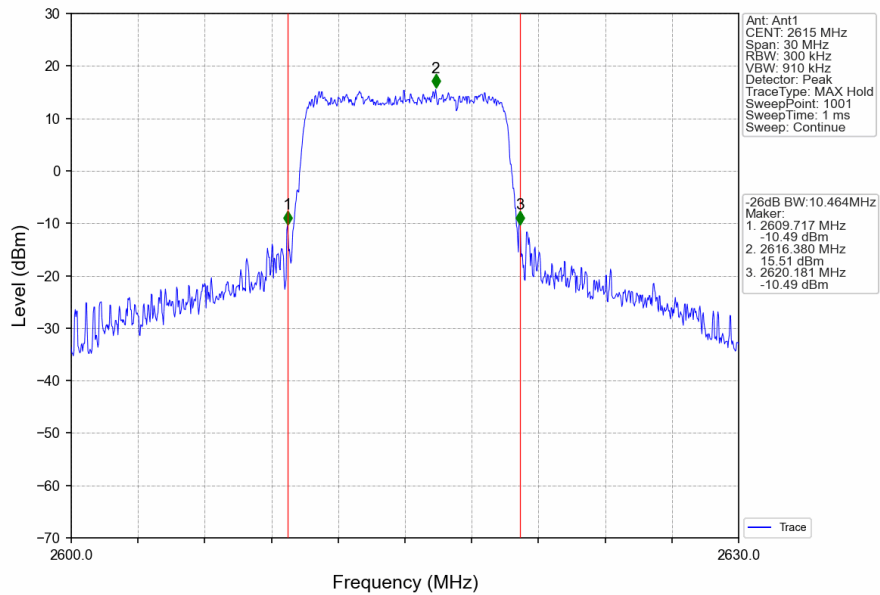
Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



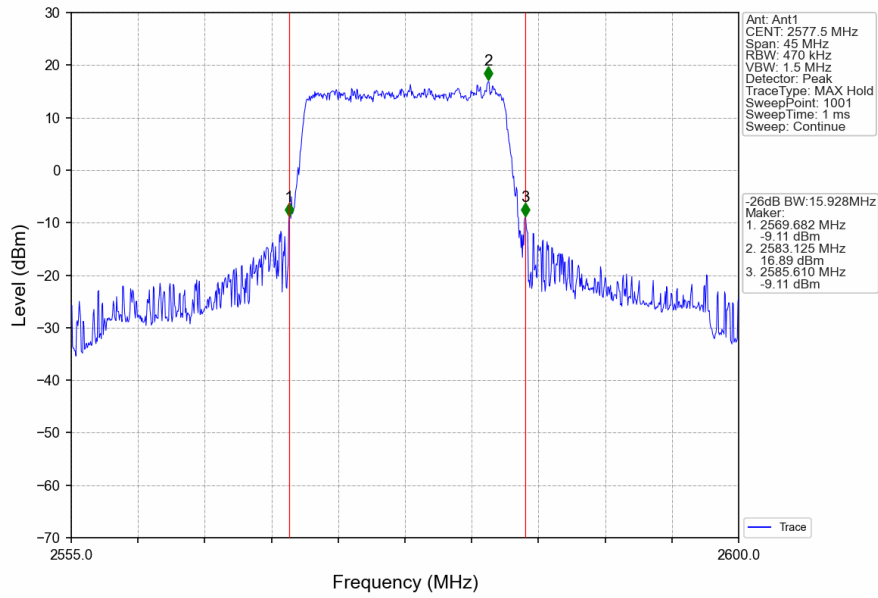
Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



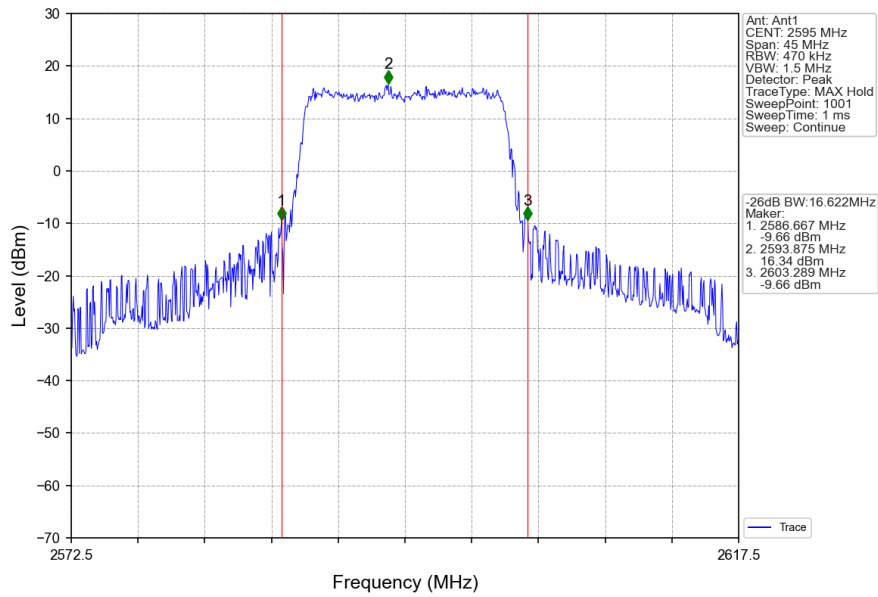
Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



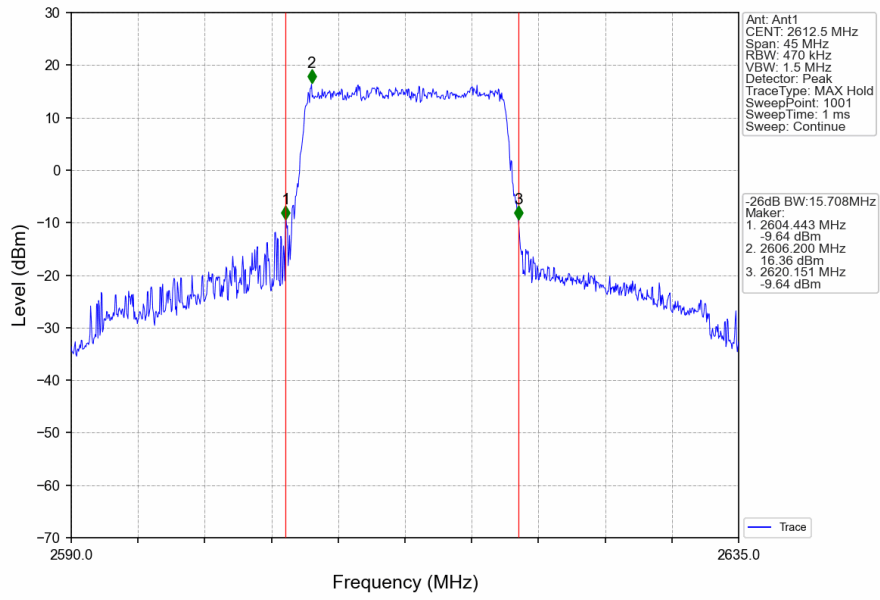
Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



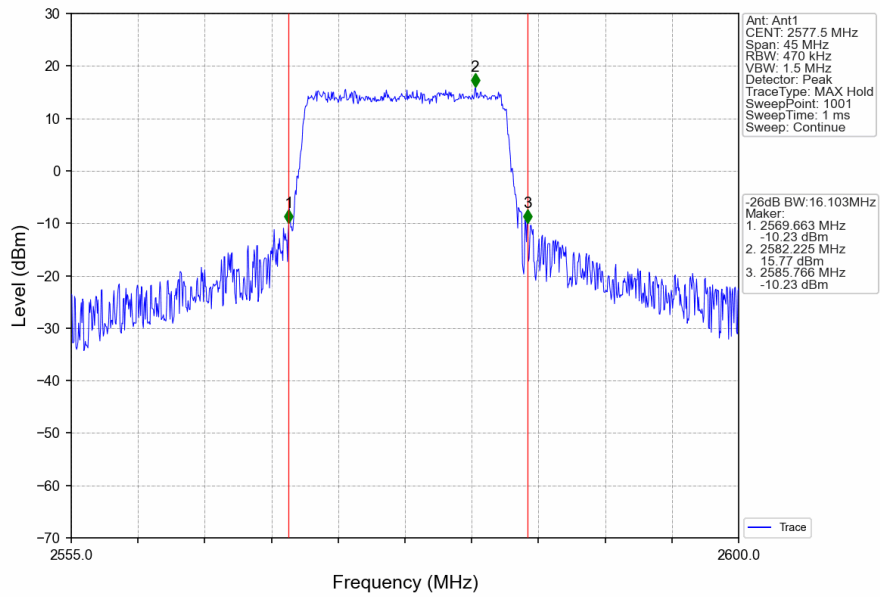
Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_75\_0\_NTNV



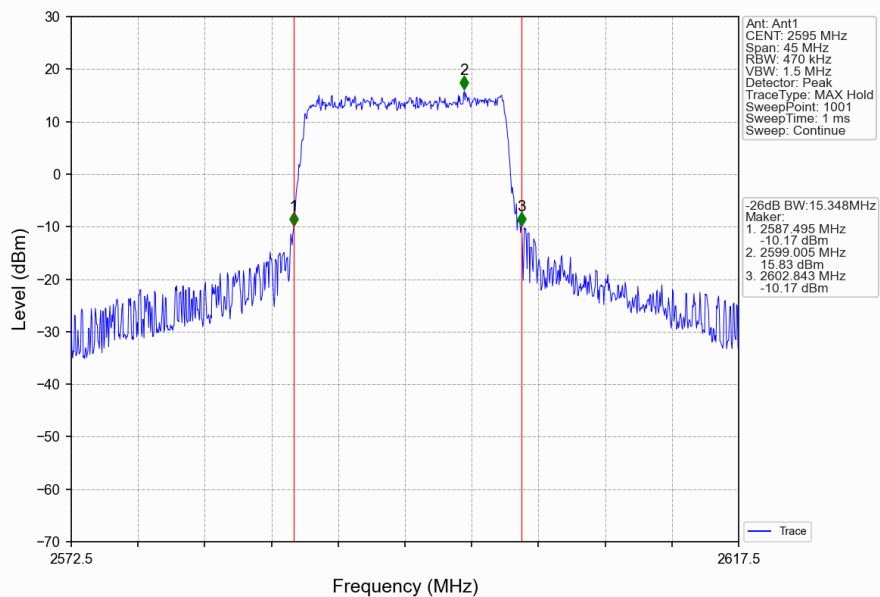
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



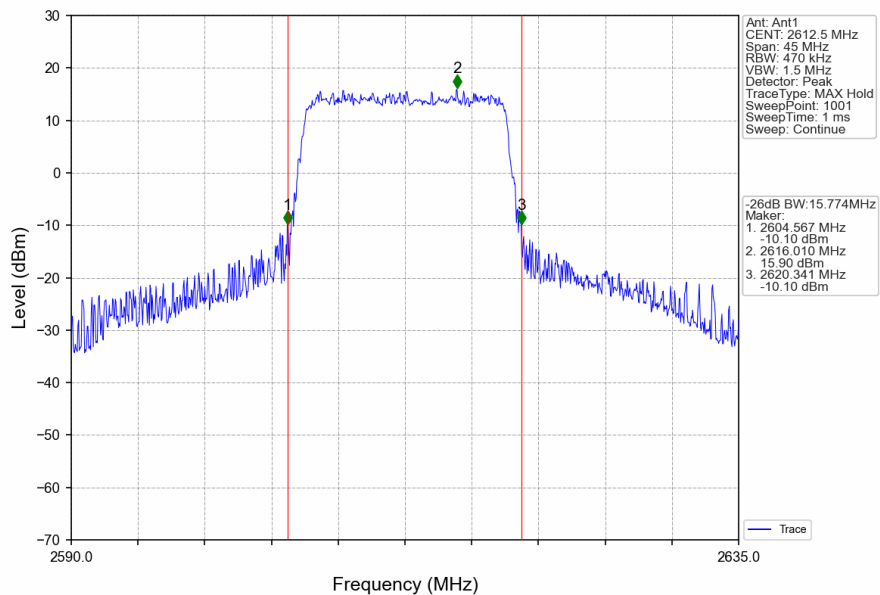
Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



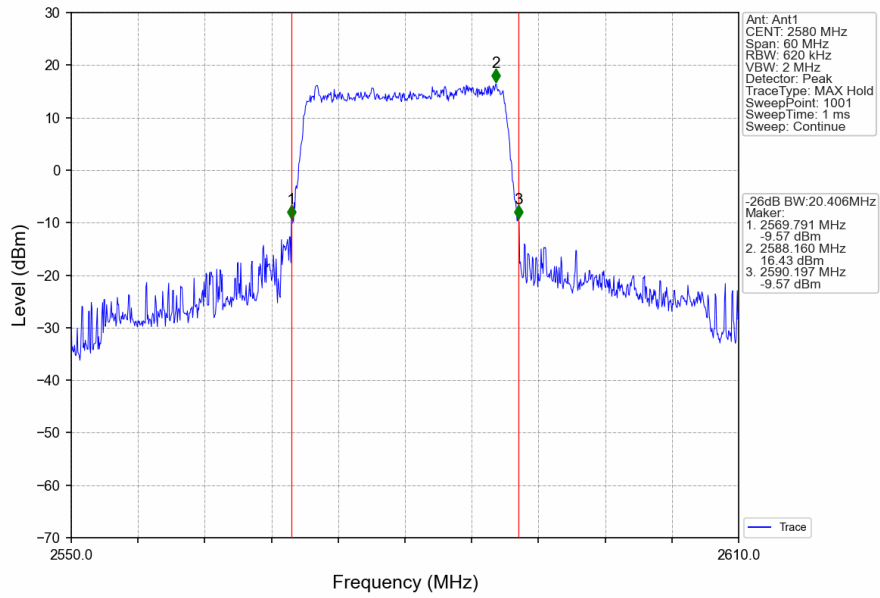
Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



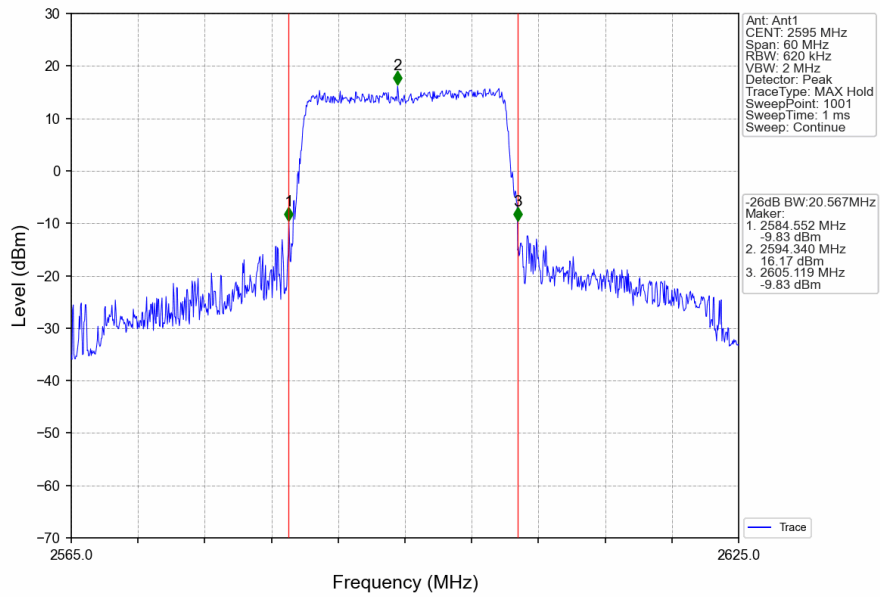
Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV

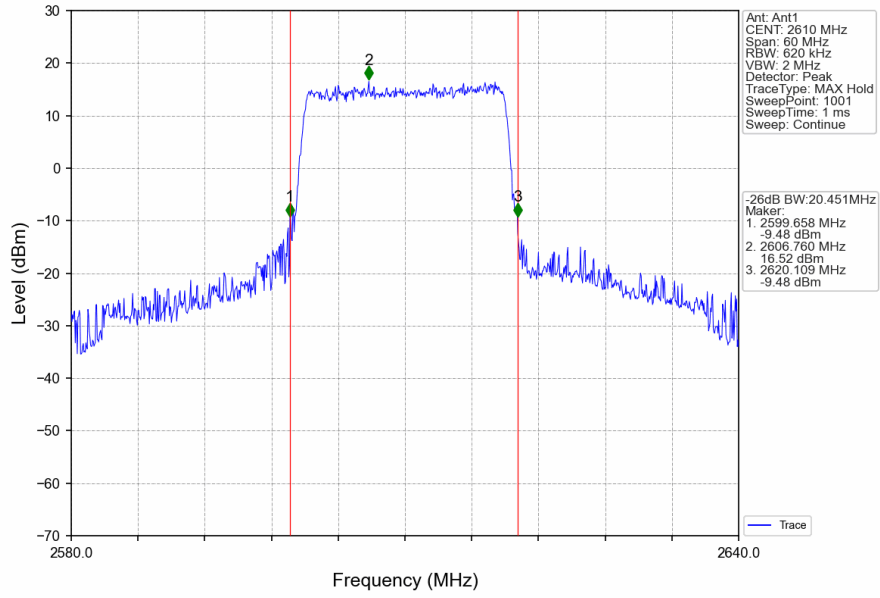


Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV

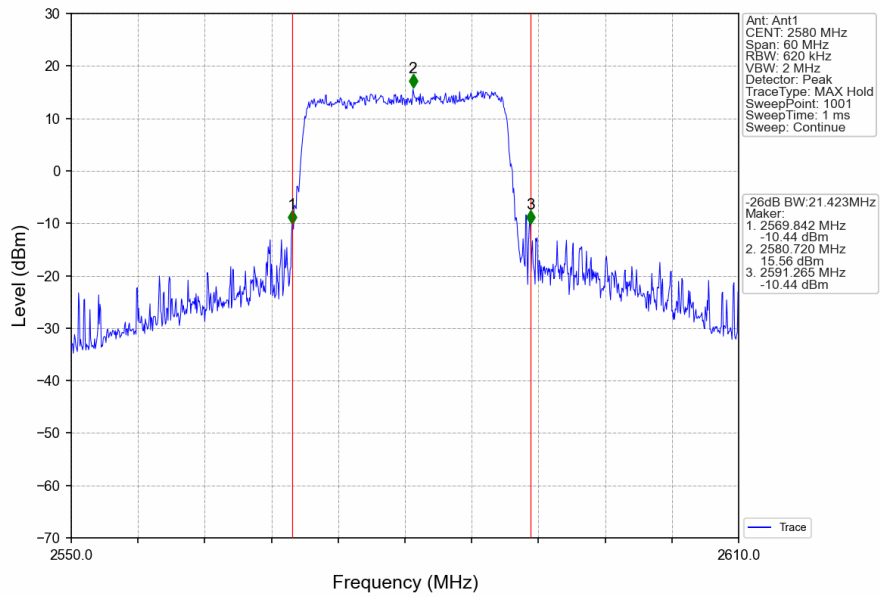




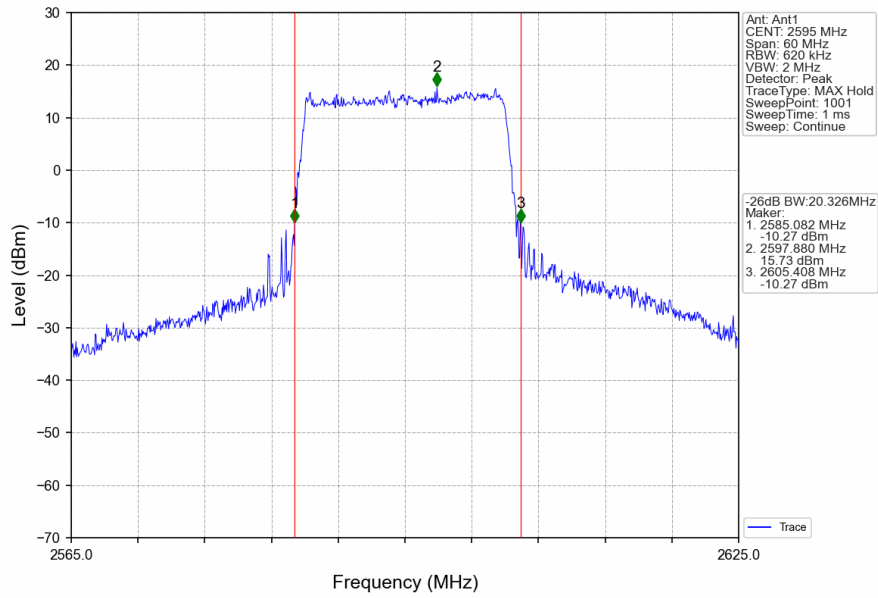
Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV



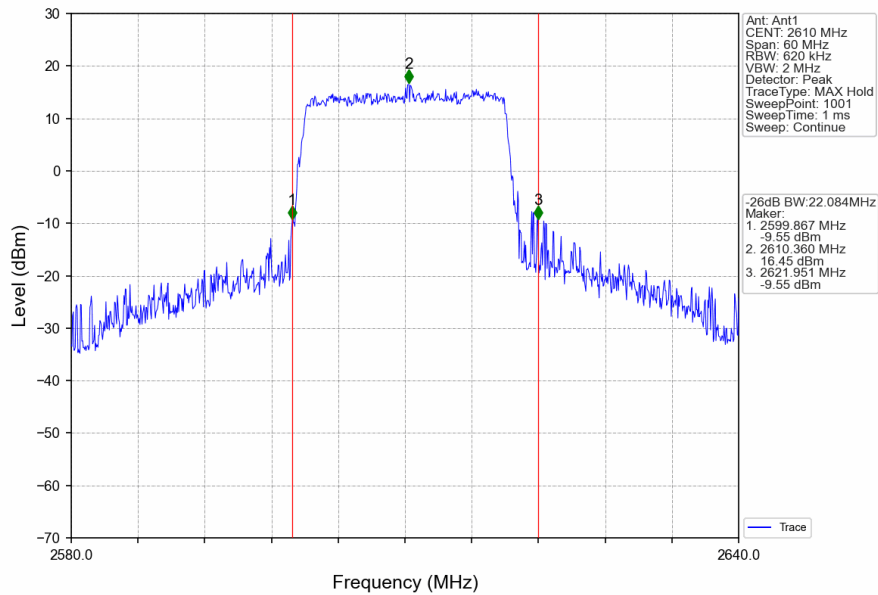
Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



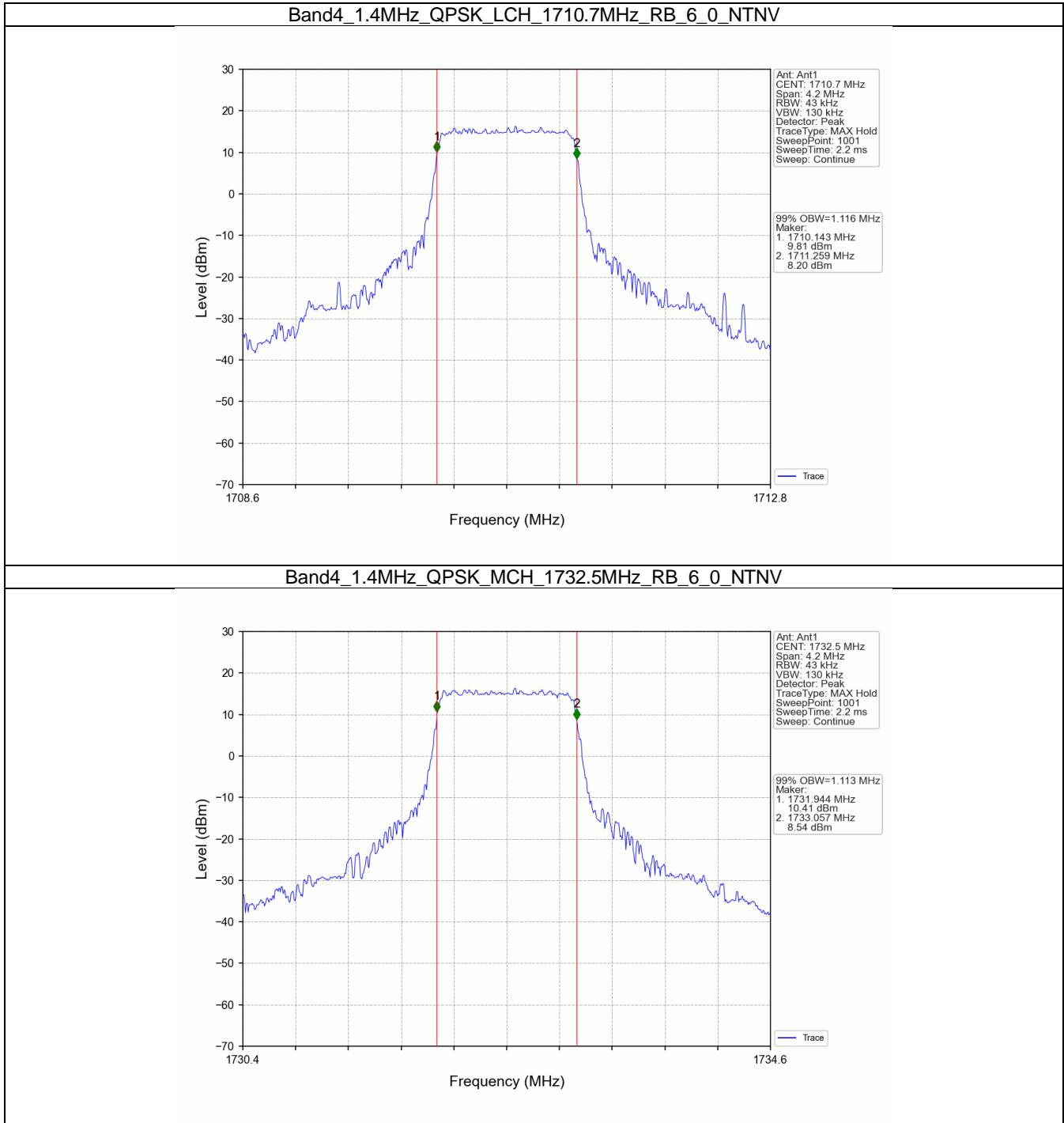
### 3. 99% & 26dB Bandwidth

#### 3.1 Band4\_OBW

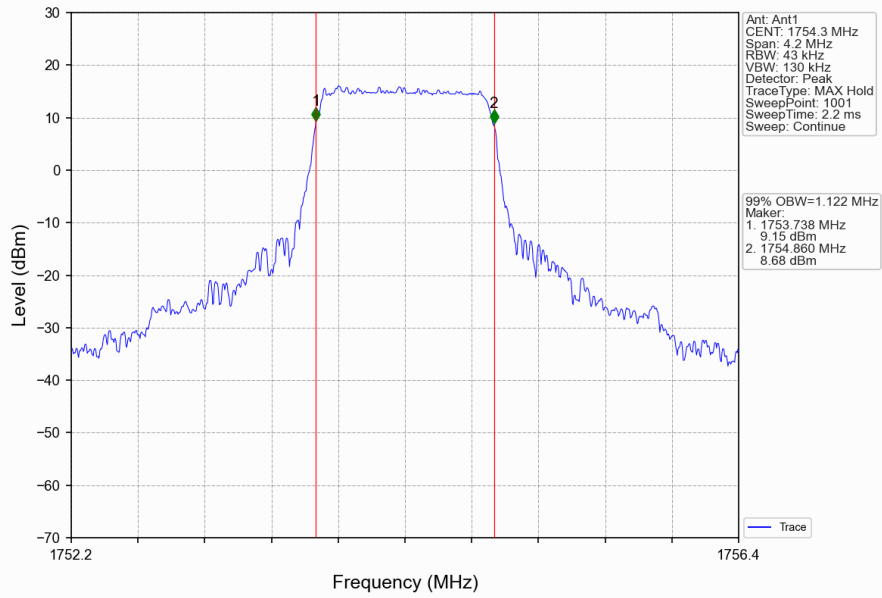
##### 3.1.1 Test Result

Band: 4 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.116	Pass
		1732.5	6	0	1.113	Pass
		1754.3	6	0	1.122	Pass
	16QAM	1710.7	6	0	1.110	Pass
		1732.5	6	0	1.110	Pass
		1754.3	6	0	1.115	Pass
3	QPSK	1711.5	15	0	2.752	Pass
		1732.5	15	0	2.763	Pass
		1753.5	15	0	2.759	Pass
	16QAM	1711.5	15	0	2.751	Pass
		1732.5	15	0	2.771	Pass
		1753.5	15	0	2.750	Pass
5	QPSK	1712.5	25	0	4.575	Pass
		1732.5	25	0	4.575	Pass
		1752.5	25	0	4.596	Pass
	16QAM	1712.5	25	0	4.605	Pass
		1732.5	25	0	4.618	Pass
		1752.5	25	0	4.574	Pass
10	QPSK	1715	50	0	9.068	Pass
		1732.5	50	0	9.079	Pass
		1750	50	0	9.066	Pass
	16QAM	1715	50	0	9.071	Pass
		1732.5	50	0	9.118	Pass
		1750	50	0	9.074	Pass
15	QPSK	1717.5	75	0	13.614	Pass
		1732.5	75	0	13.643	Pass
		1747.5	75	0	13.544	Pass
	16QAM	1717.5	75	0	13.598	Pass
		1732.5	75	0	13.655	Pass
		1747.5	75	0	13.580	Pass
20	QPSK	1720	100	0	18.101	Pass
		1732.5	100	0	18.239	Pass
		1745	100	0	18.080	Pass
	16QAM	1720	100	0	18.176	Pass
		1732.5	100	0	18.231	Pass
		1745	100	0	18.075	Pass

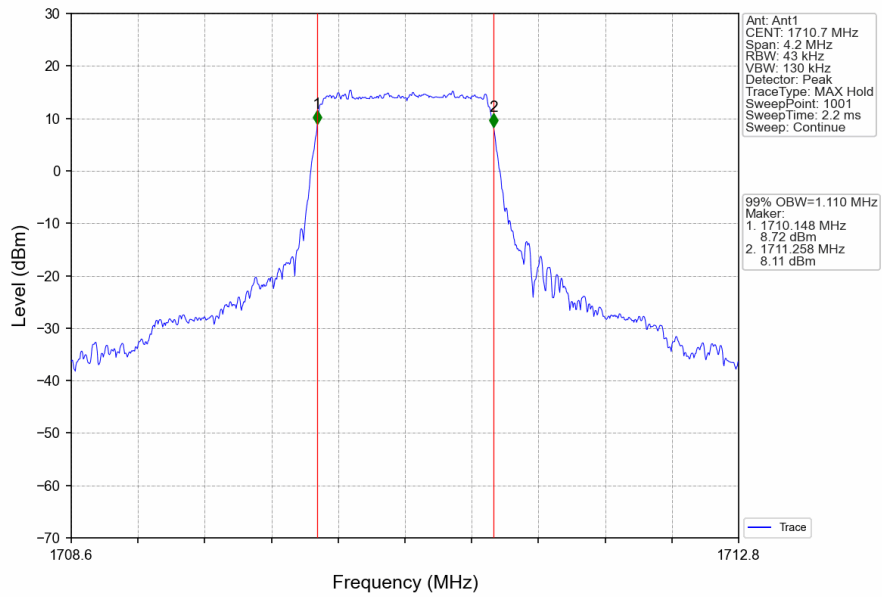
### 3.1.2 Test Graph



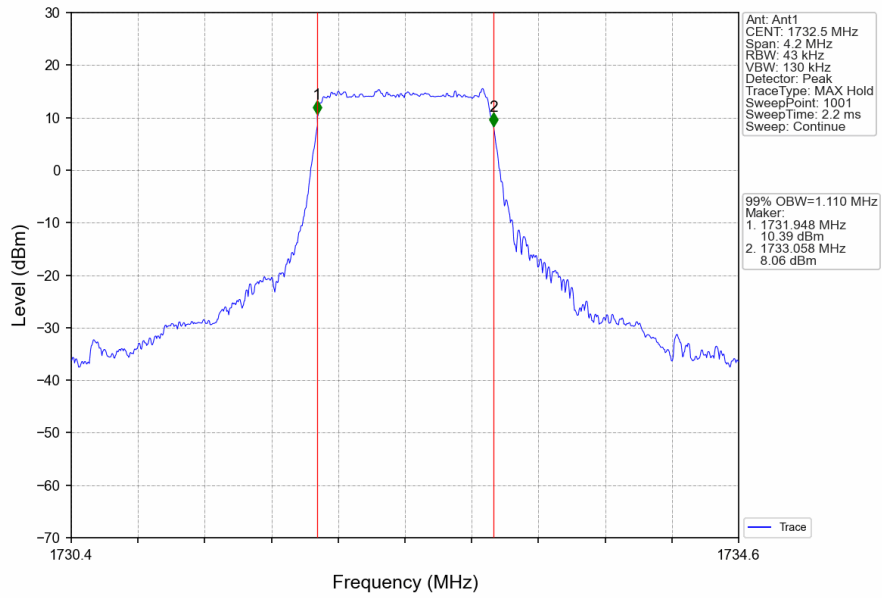
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



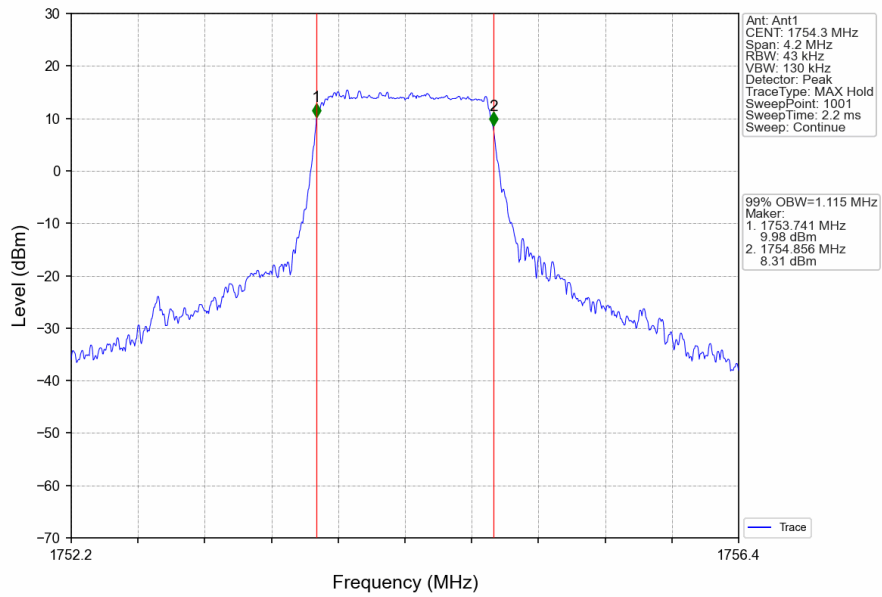
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



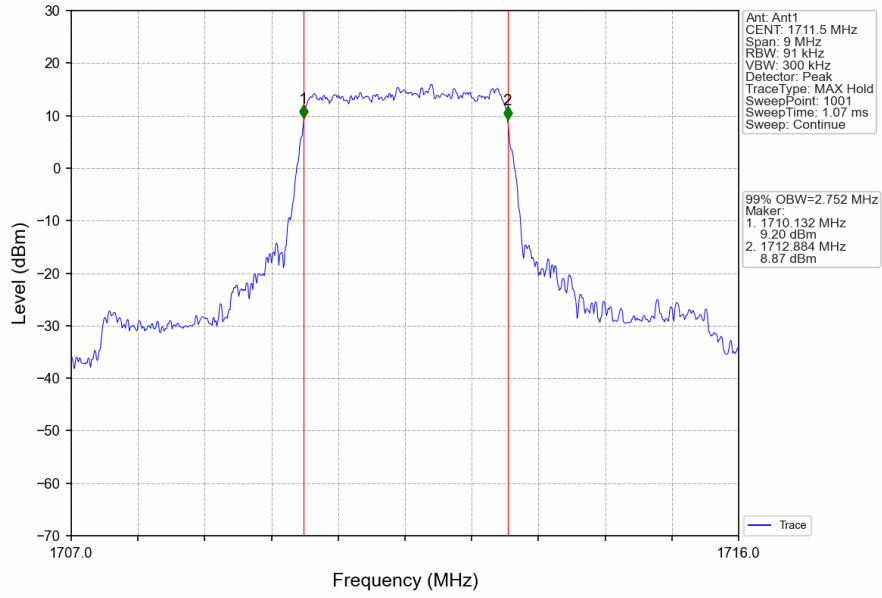
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



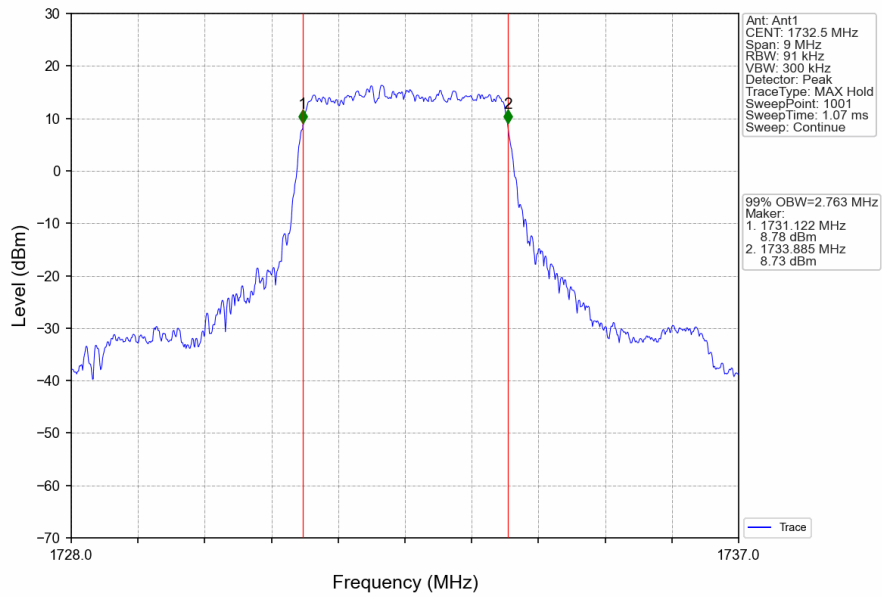
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



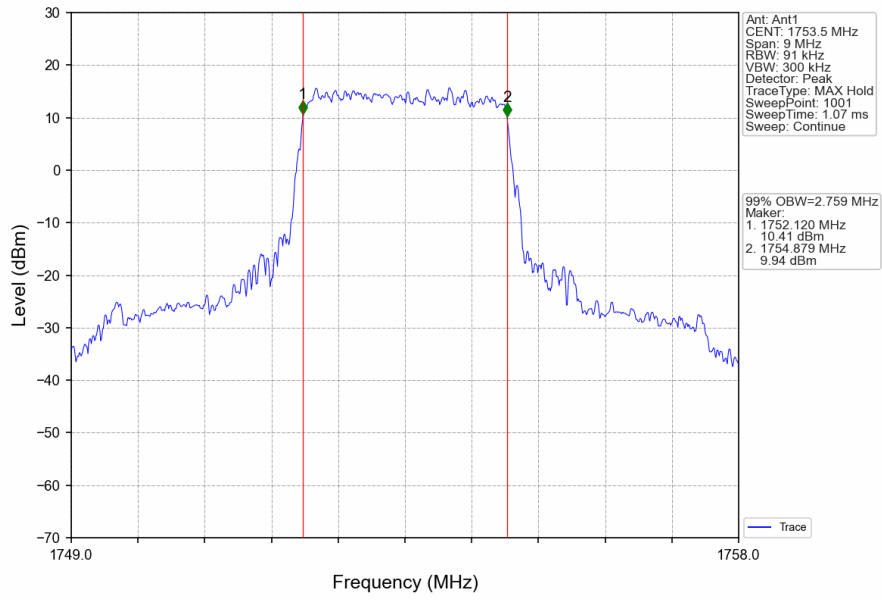
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



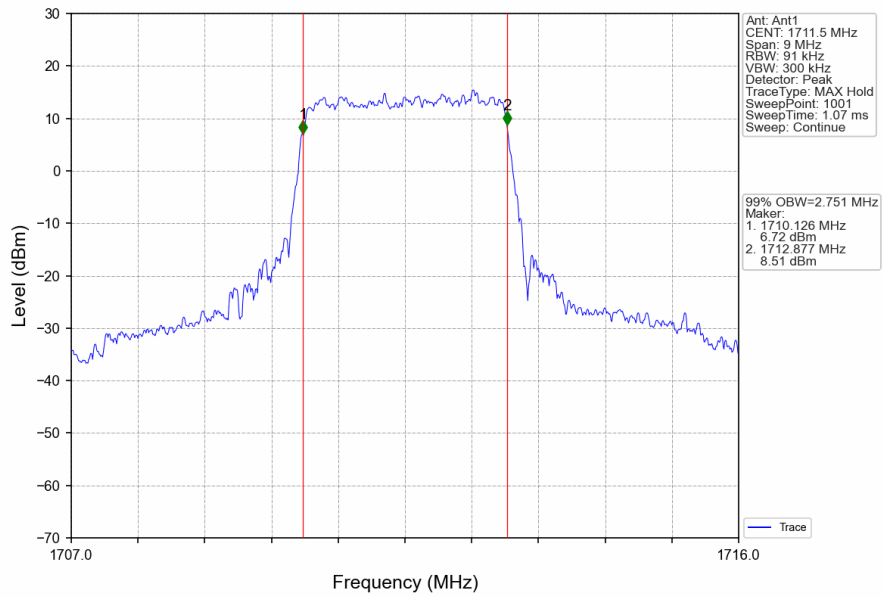
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV

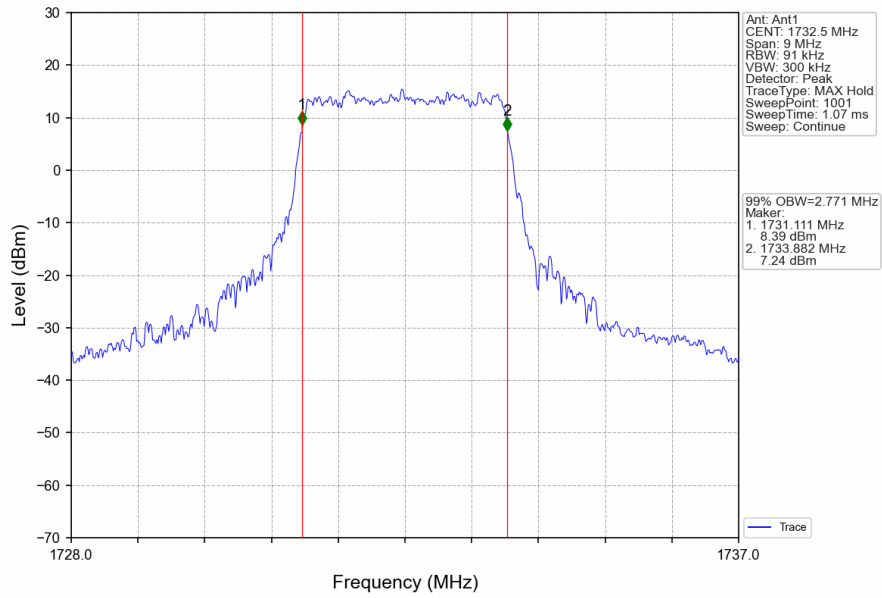


Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

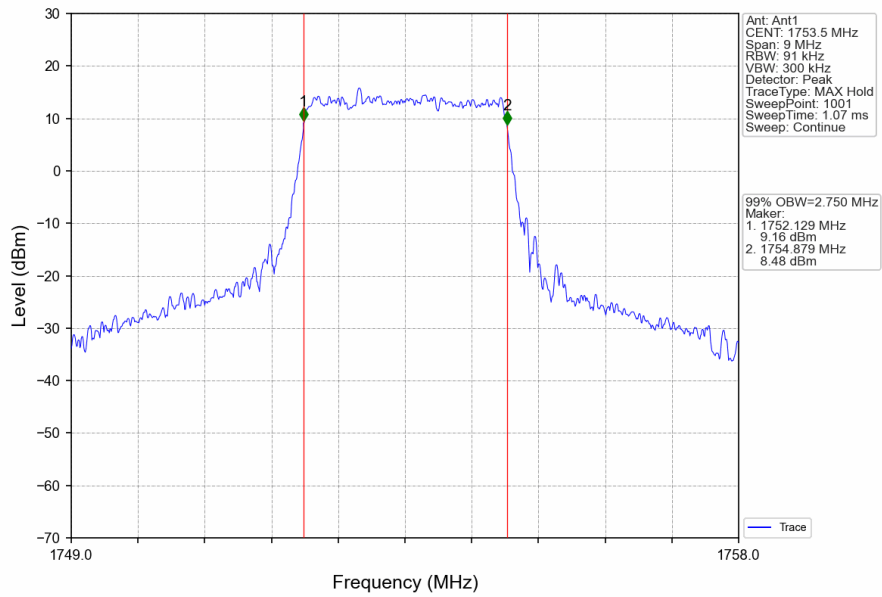




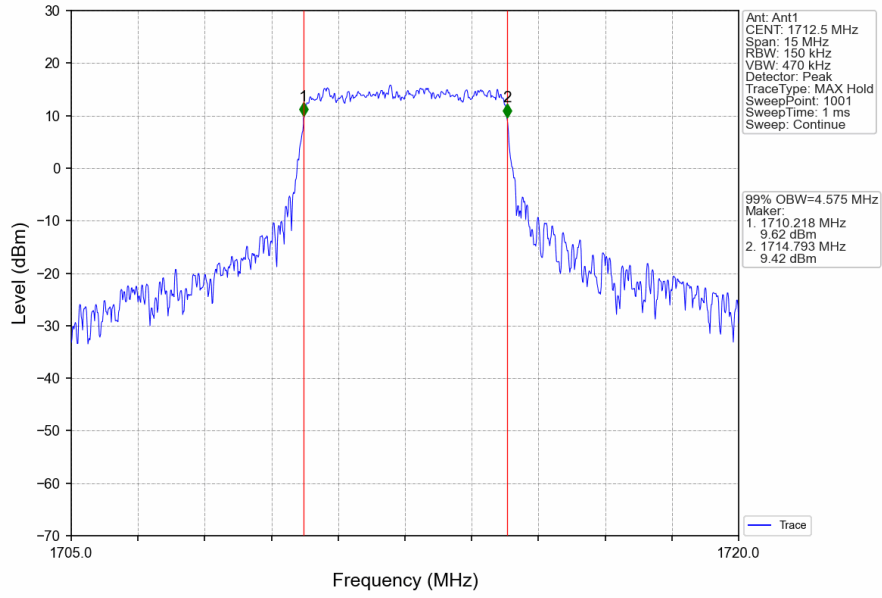
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



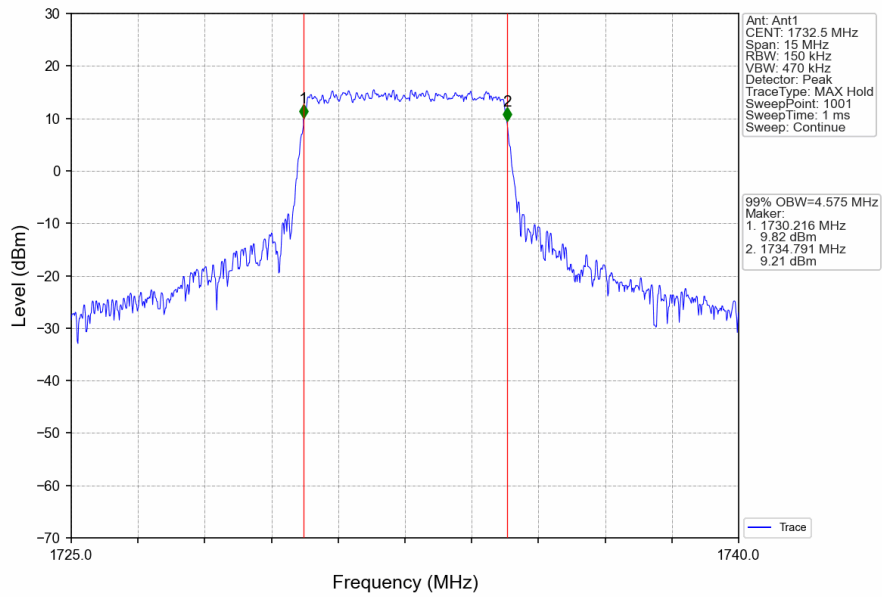
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



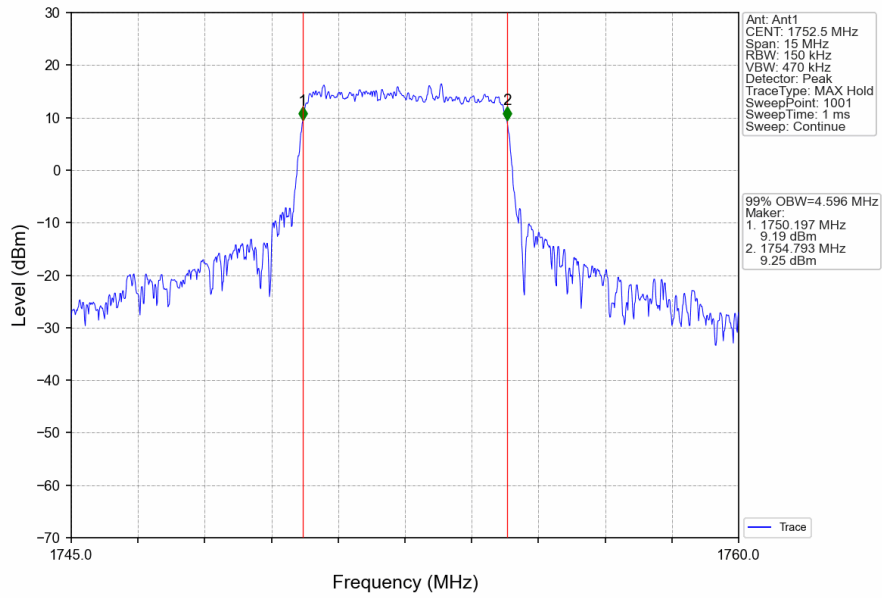
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



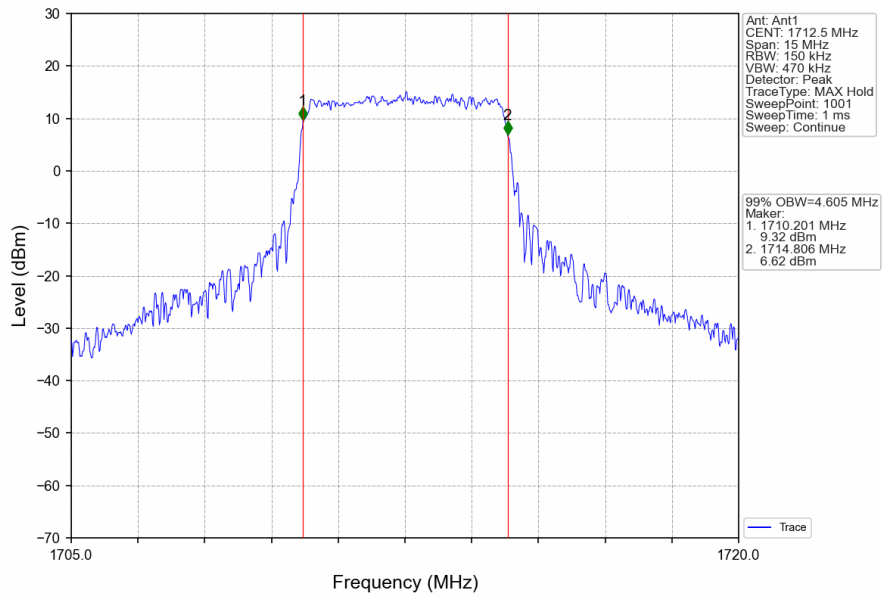
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



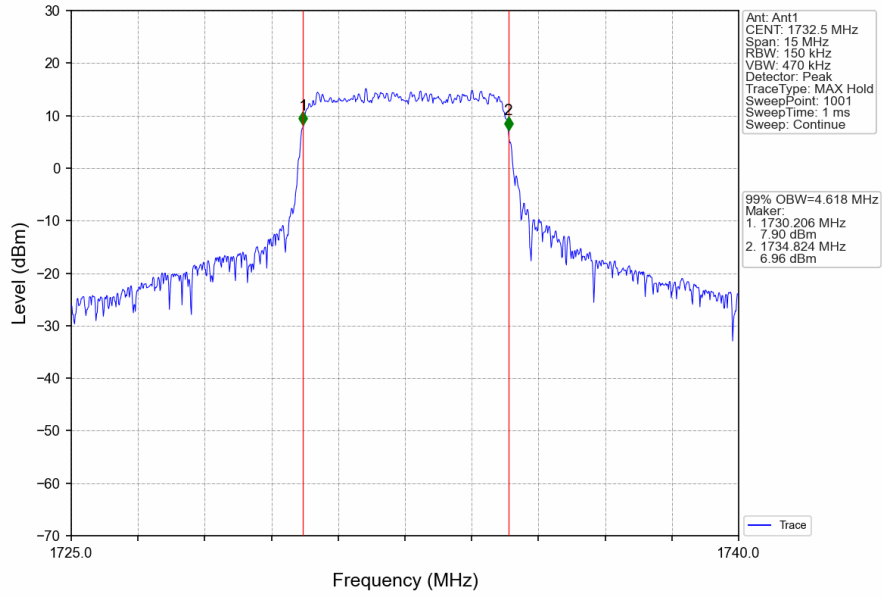
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



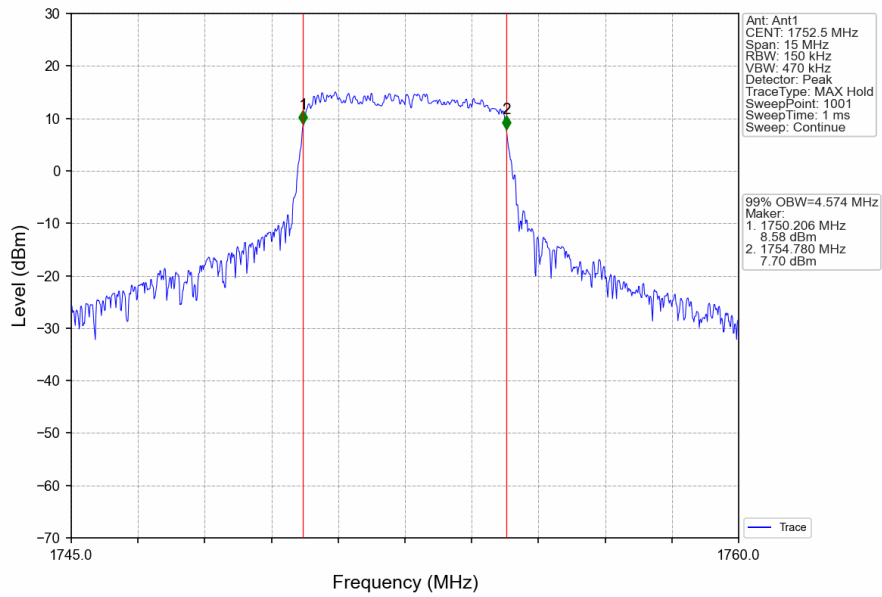
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



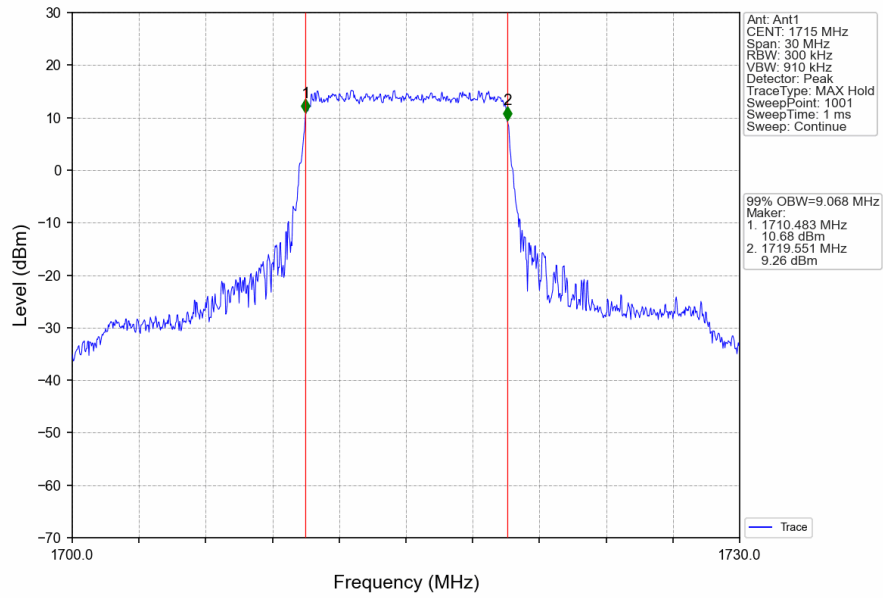
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



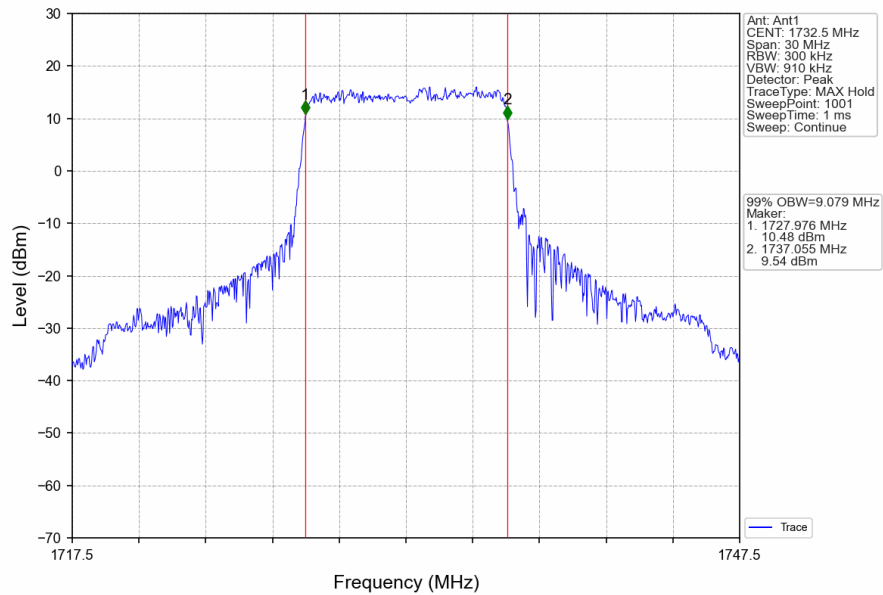
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



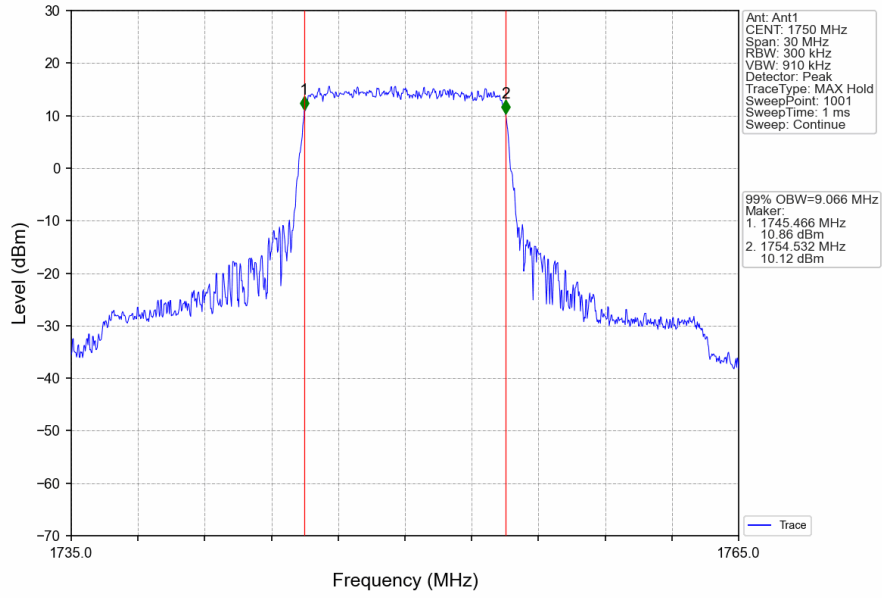
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



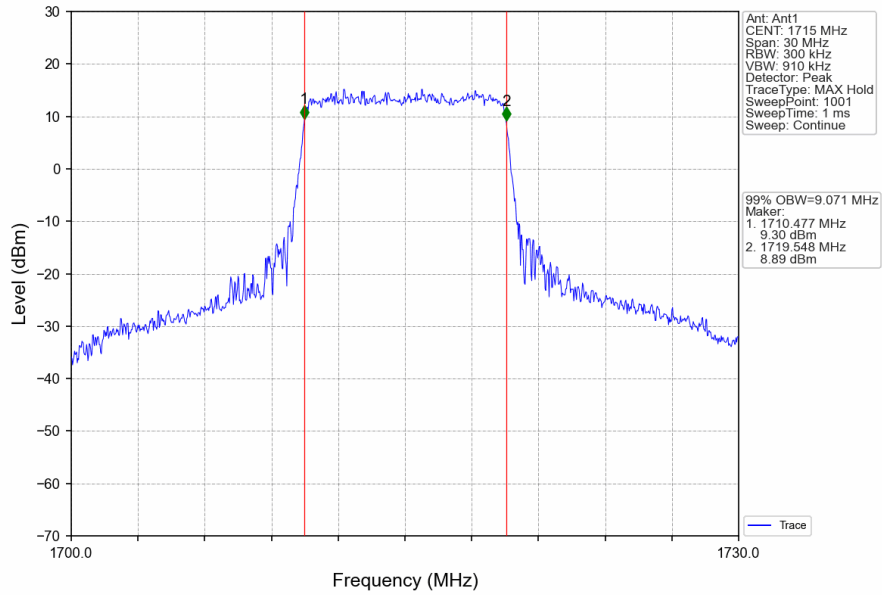
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



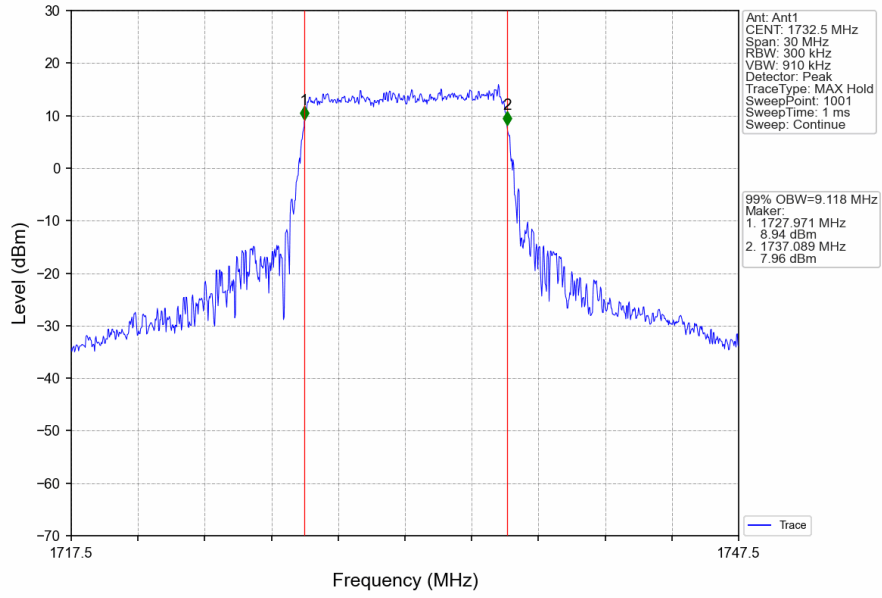
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



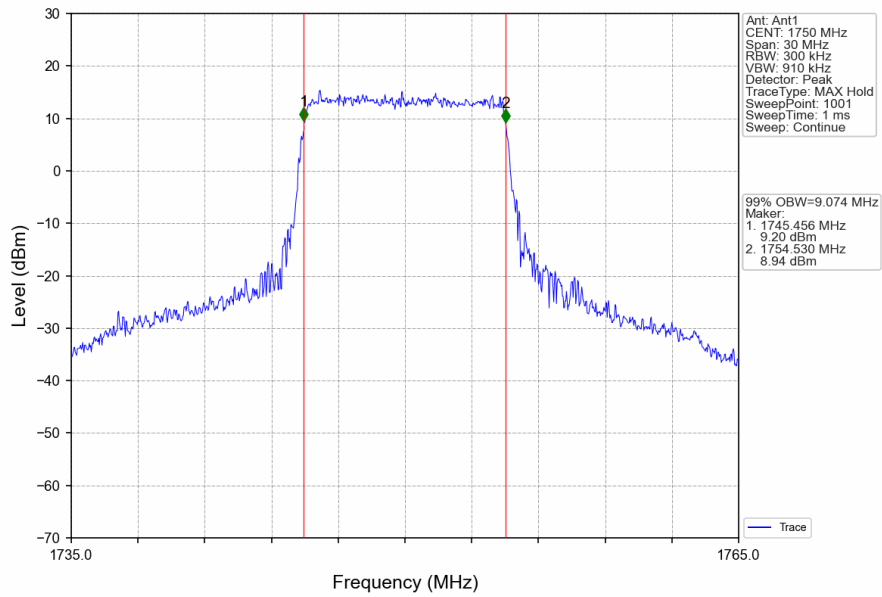
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



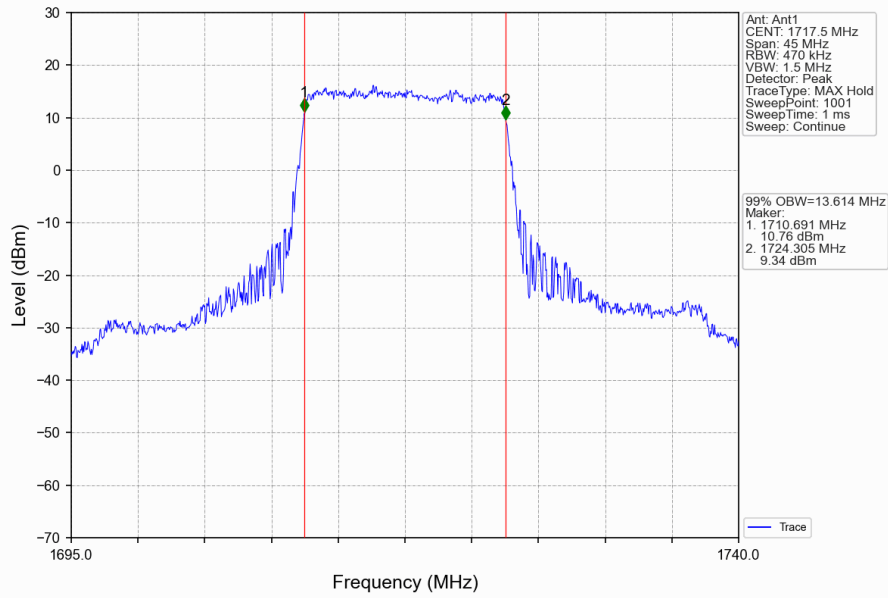
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



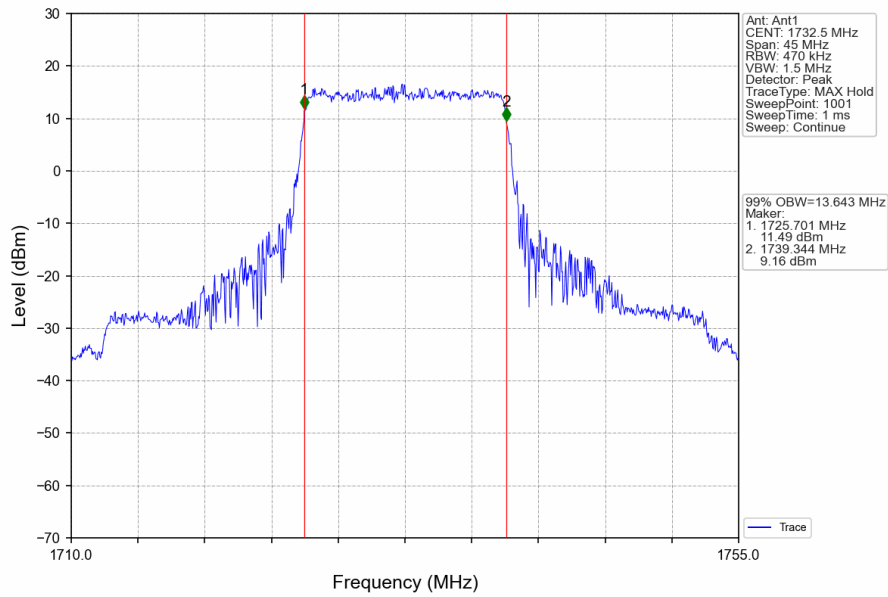
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

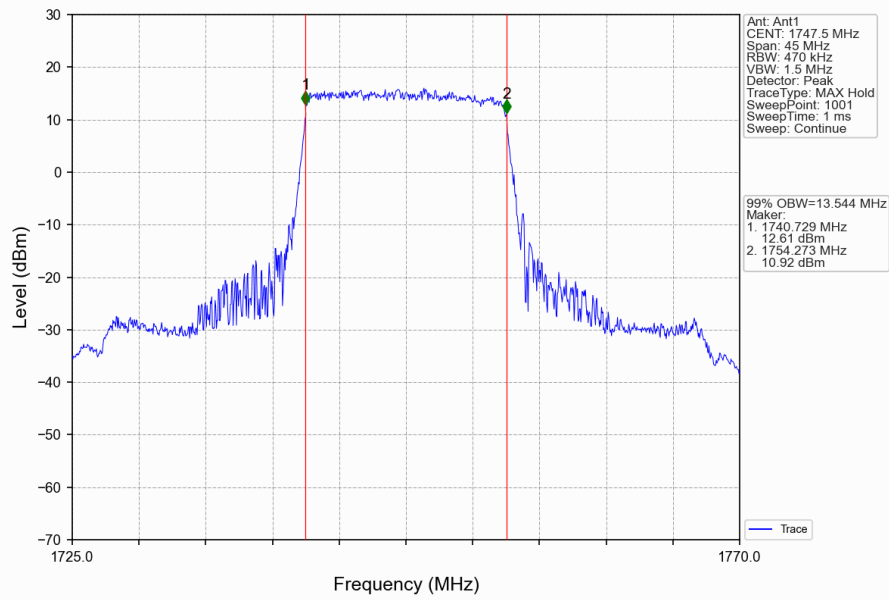


Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV

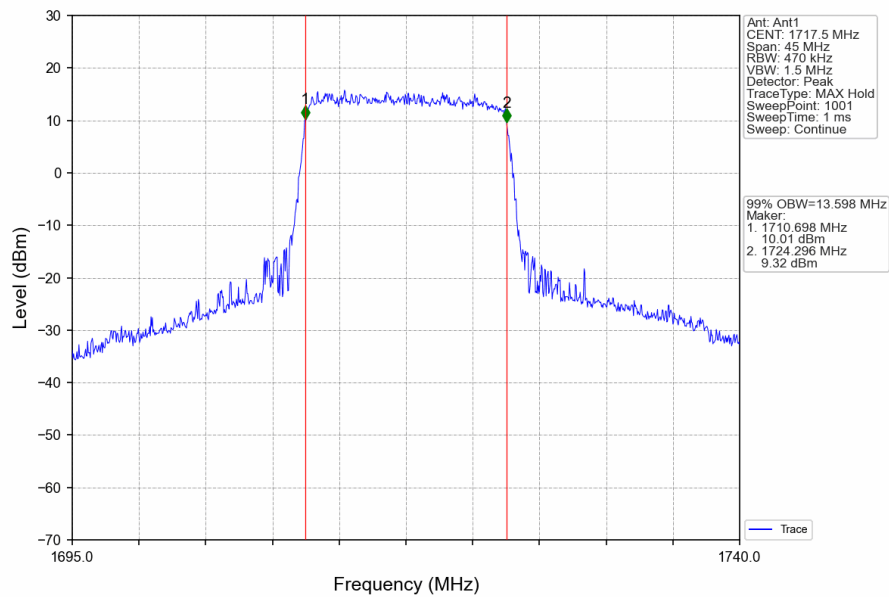




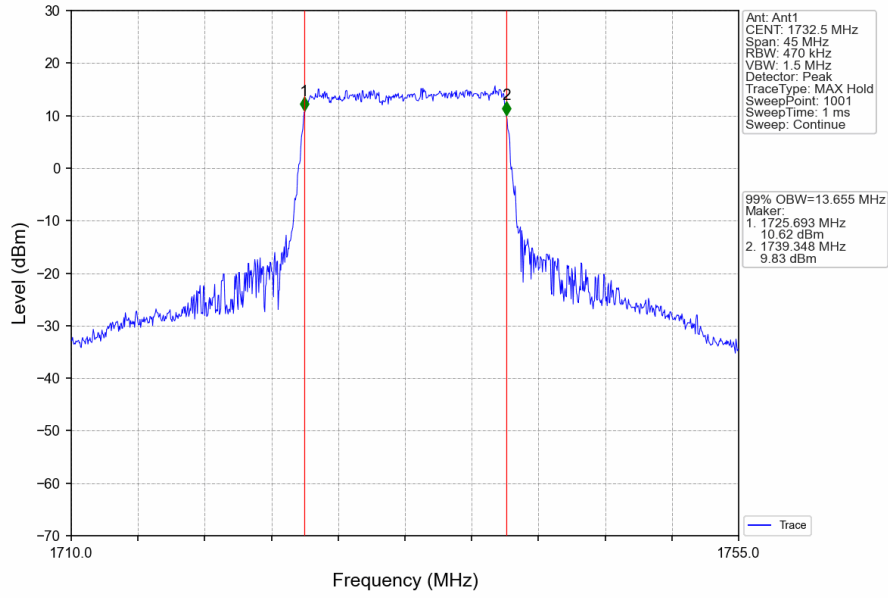
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



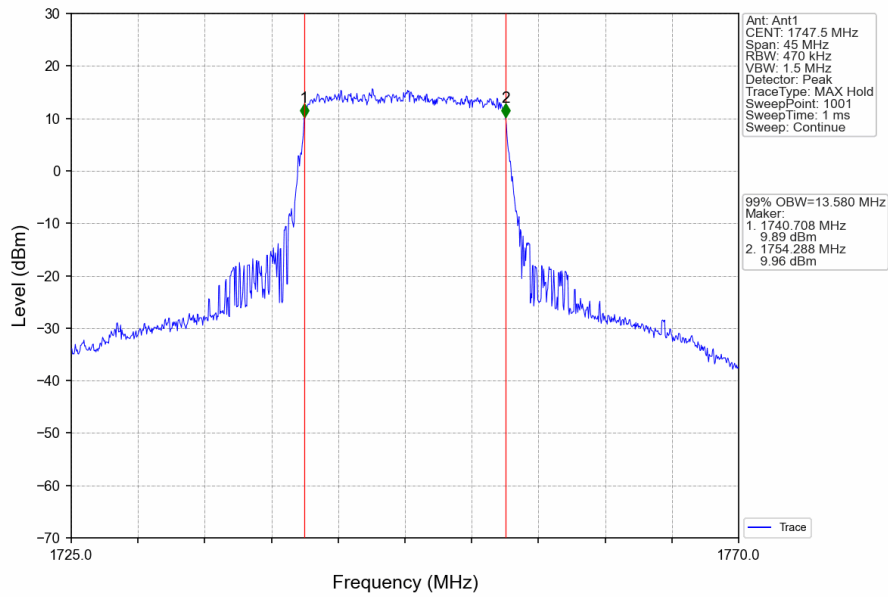
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



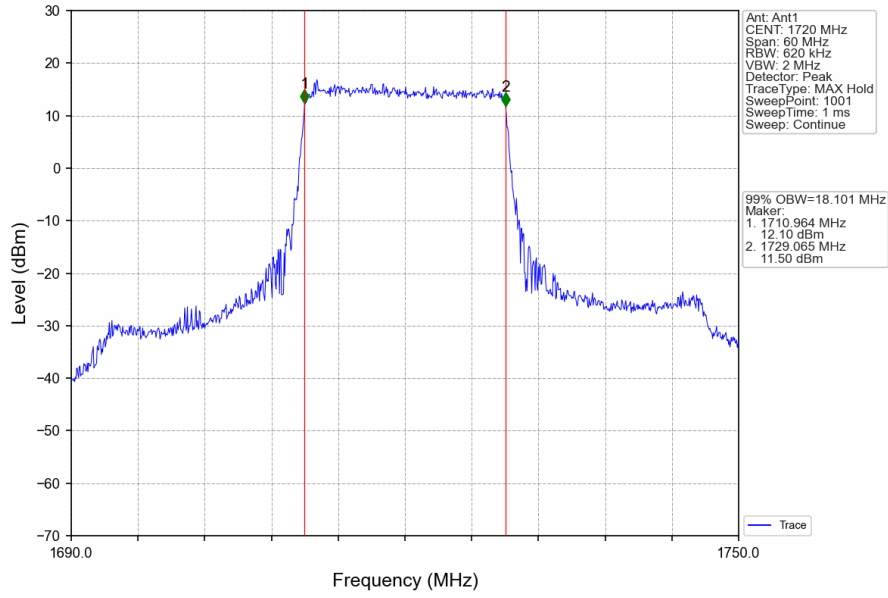
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



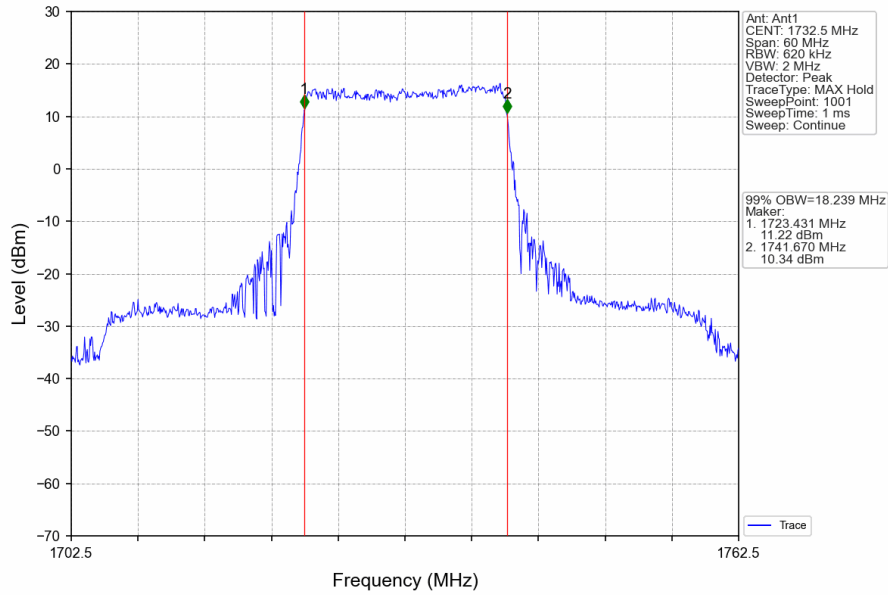
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



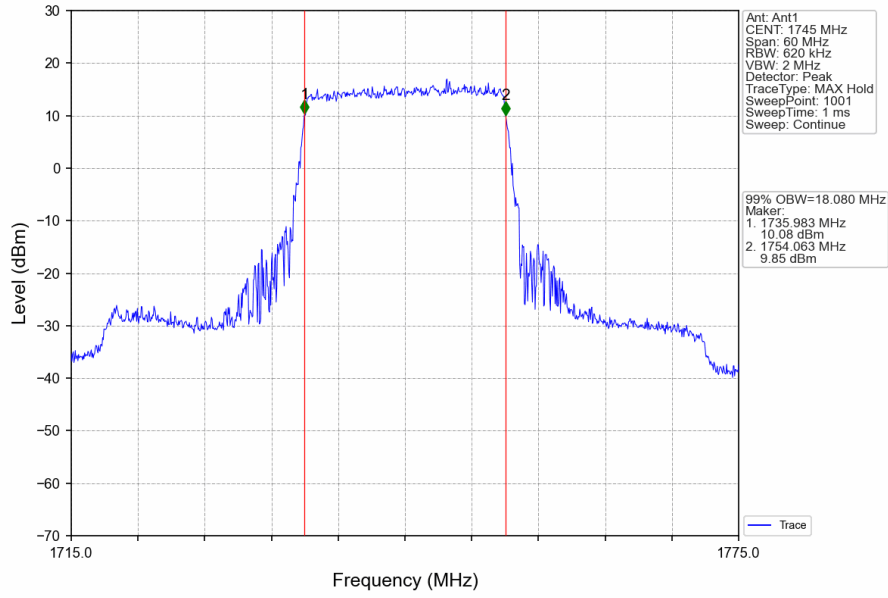
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



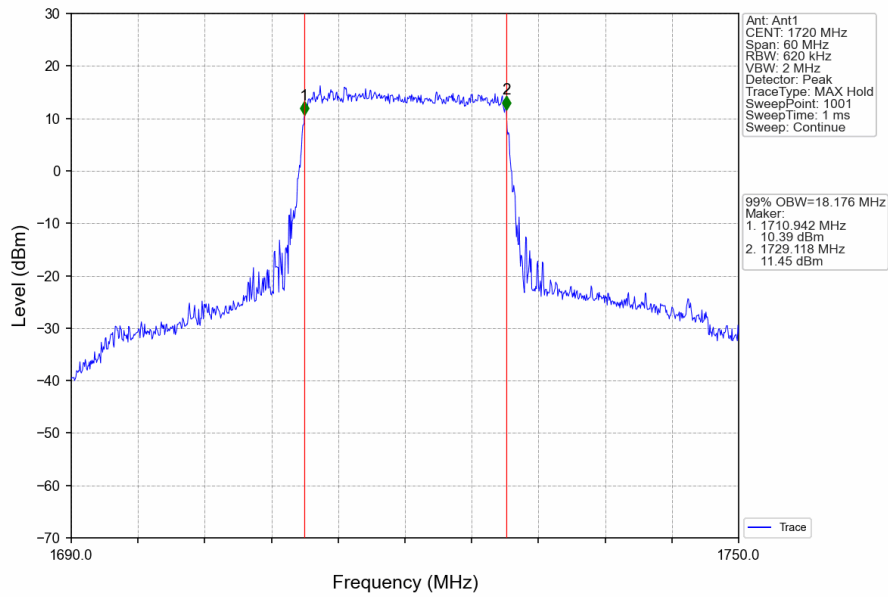
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



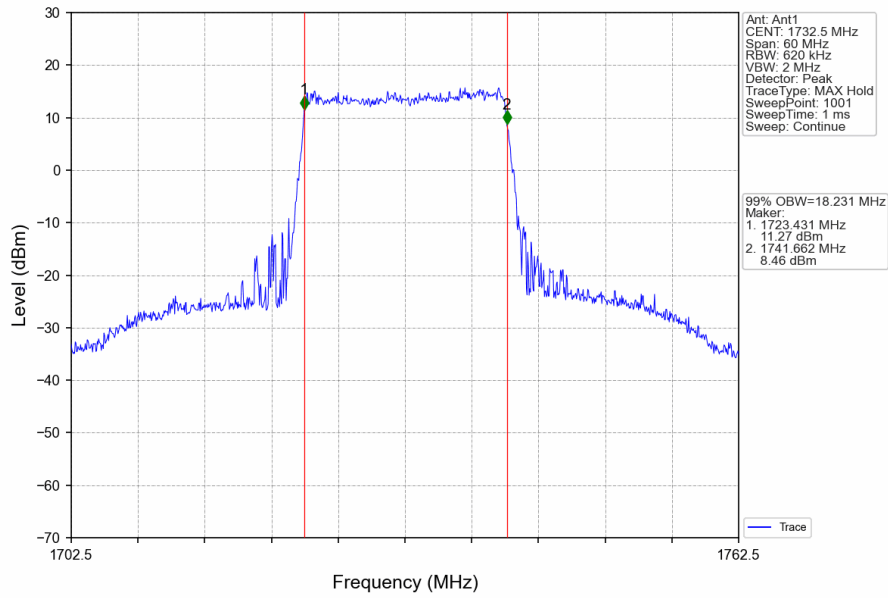
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



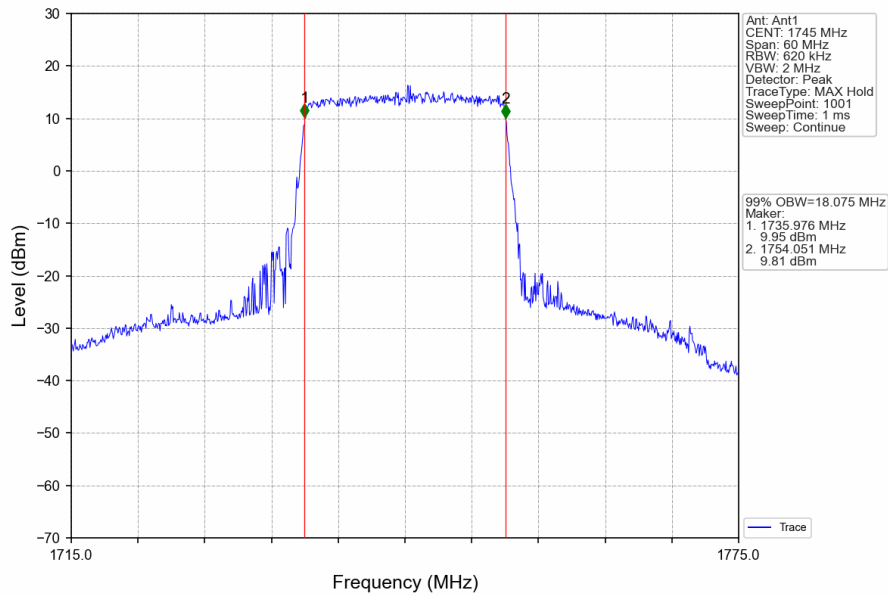
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV

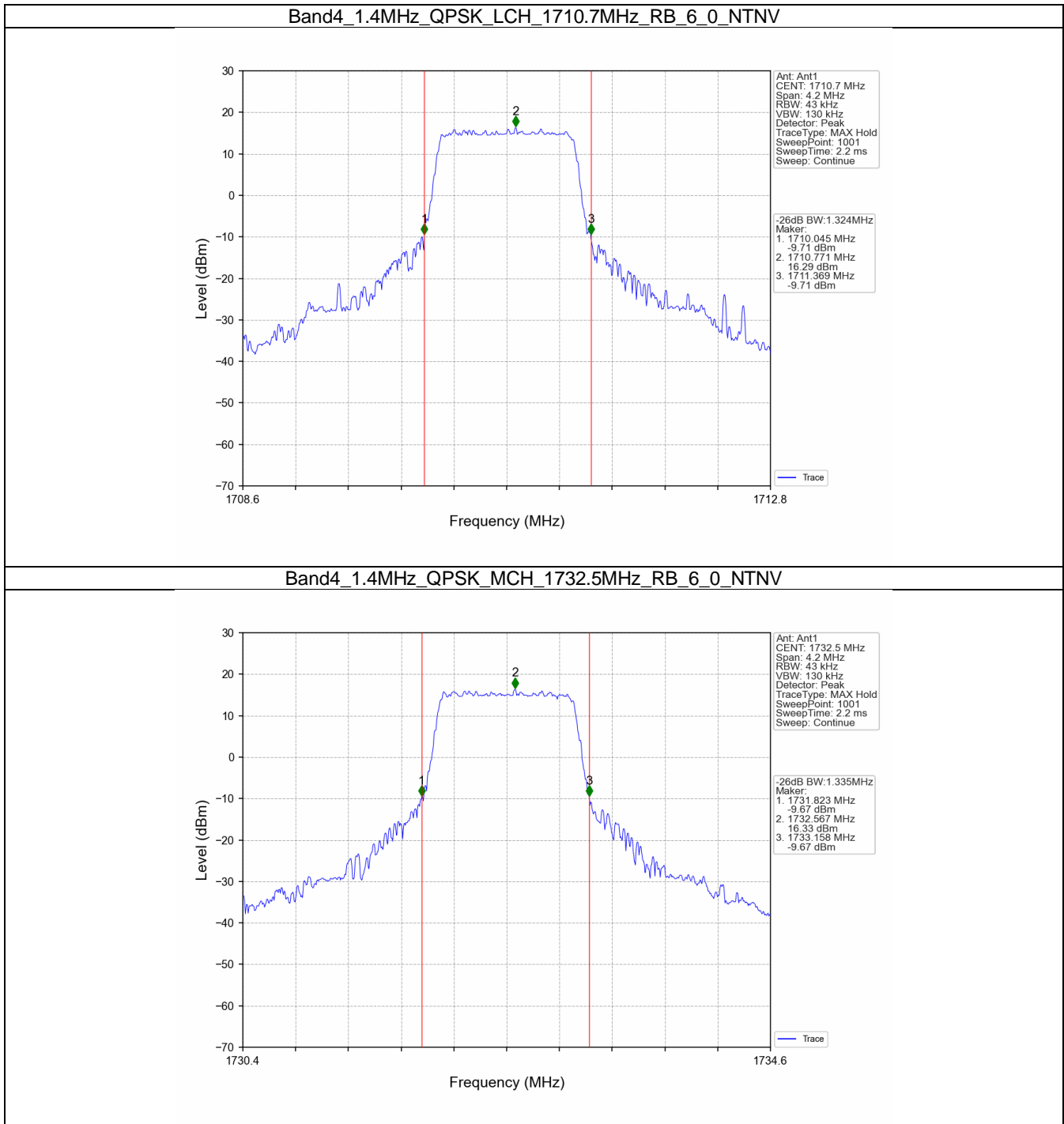


### 3.2 Band4\_XDB

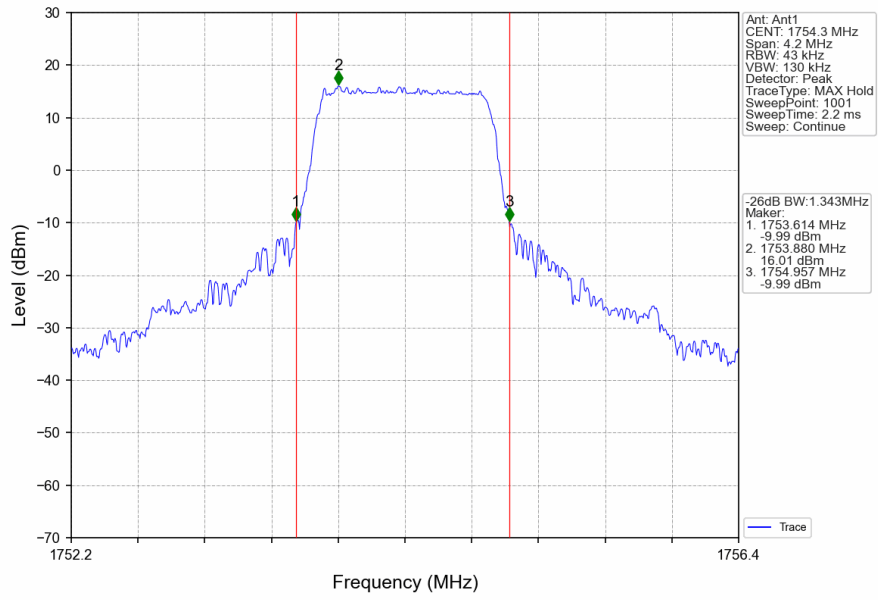
#### 3.2.1 Test Result

Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.324	Pass
		1732.5	6	0	1.335	Pass
		1754.3	6	0	1.343	Pass
	16QAM	1710.7	6	0	1.297	Pass
		1732.5	6	0	1.325	Pass
		1754.3	6	0	1.334	Pass
3	QPSK	1711.5	15	0	3.132	Pass
		1732.5	15	0	3.168	Pass
		1753.5	15	0	3.109	Pass
	16QAM	1711.5	15	0	3.115	Pass
		1732.5	15	0	3.234	Pass
		1753.5	15	0	3.228	Pass
5	QPSK	1712.5	25	0	5.788	Pass
		1732.5	25	0	5.688	Pass
		1752.5	25	0	5.424	Pass
	16QAM	1712.5	25	0	5.727	Pass
		1732.5	25	0	5.685	Pass
		1752.5	25	0	5.617	Pass
10	QPSK	1715	50	0	10.455	Pass
		1732.5	50	0	10.427	Pass
		1750	50	0	10.245	Pass
	16QAM	1715	50	0	10.341	Pass
		1732.5	50	0	10.325	Pass
		1750	50	0	10.307	Pass
15	QPSK	1717.5	75	0	15.621	Pass
		1732.5	75	0	16.231	Pass
		1747.5	75	0	15.631	Pass
	16QAM	1717.5	75	0	15.065	Pass
		1732.5	75	0	15.069	Pass
		1747.5	75	0	15.570	Pass
20	QPSK	1720	100	0	20.114	Pass
		1732.5	100	0	21.263	Pass
		1745	100	0	20.339	Pass
	16QAM	1720	100	0	20.732	Pass
		1732.5	100	0	20.712	Pass
		1745	100	0	19.845	Pass

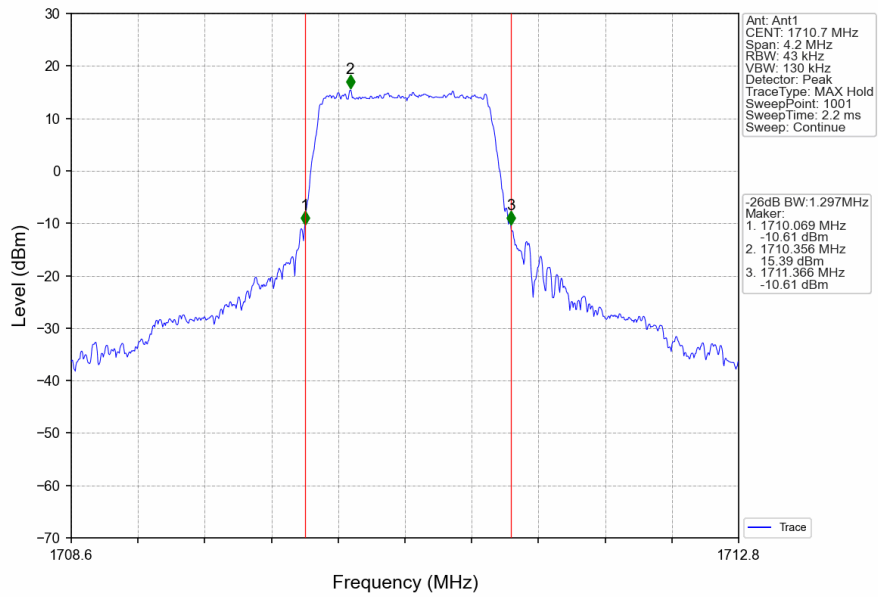
### 3.2.2 Test Graph



Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV

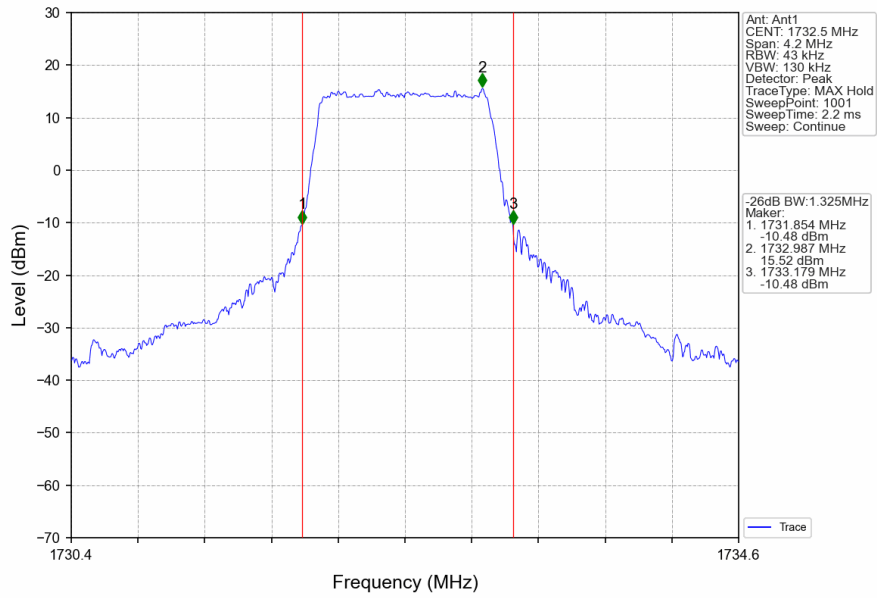


Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV

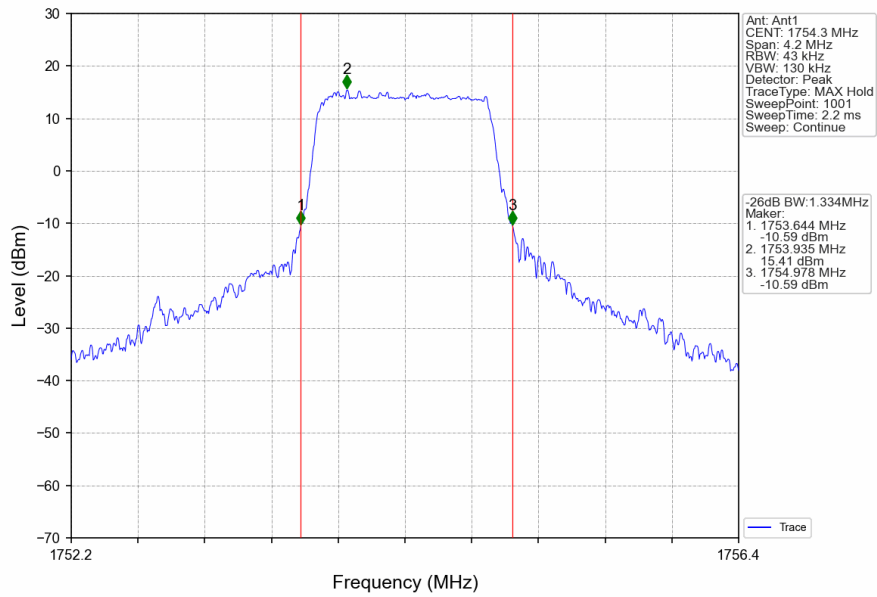




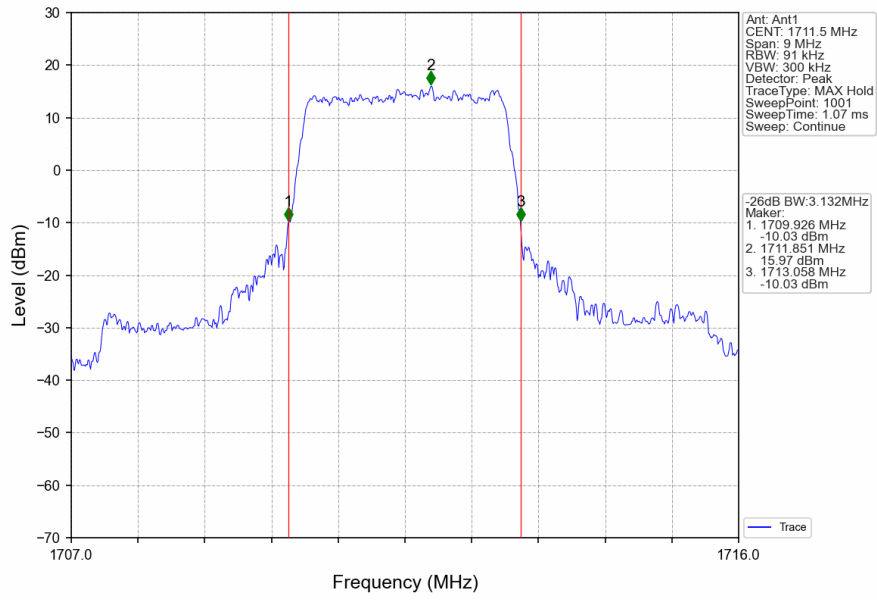
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



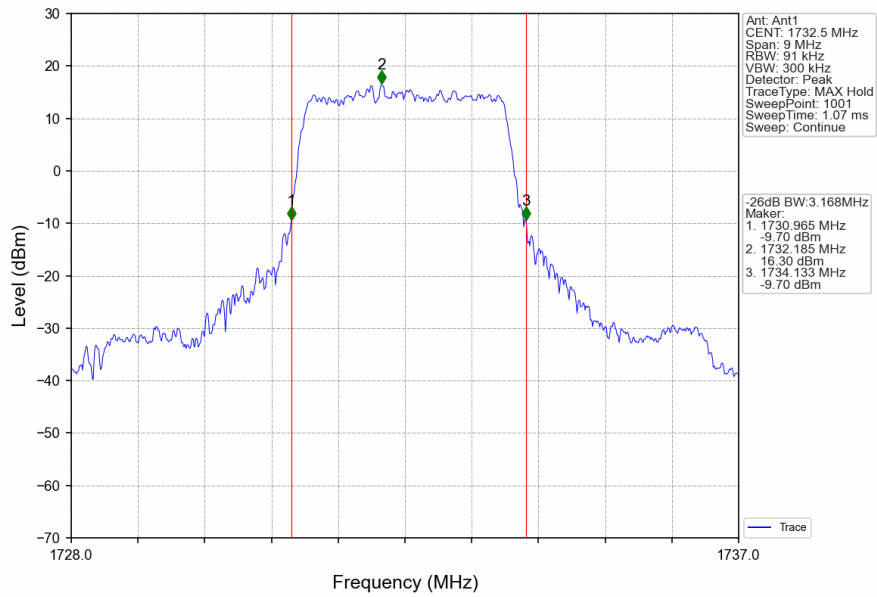
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



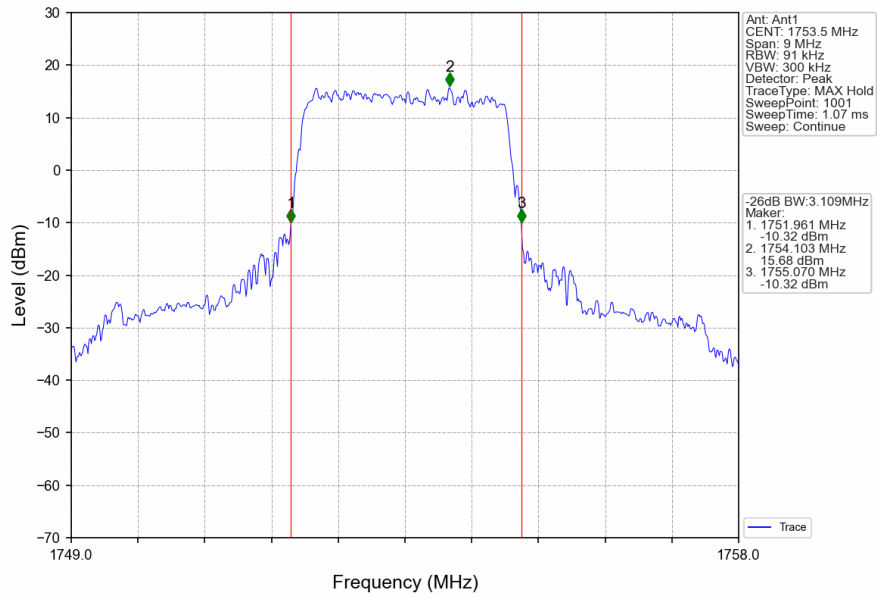
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



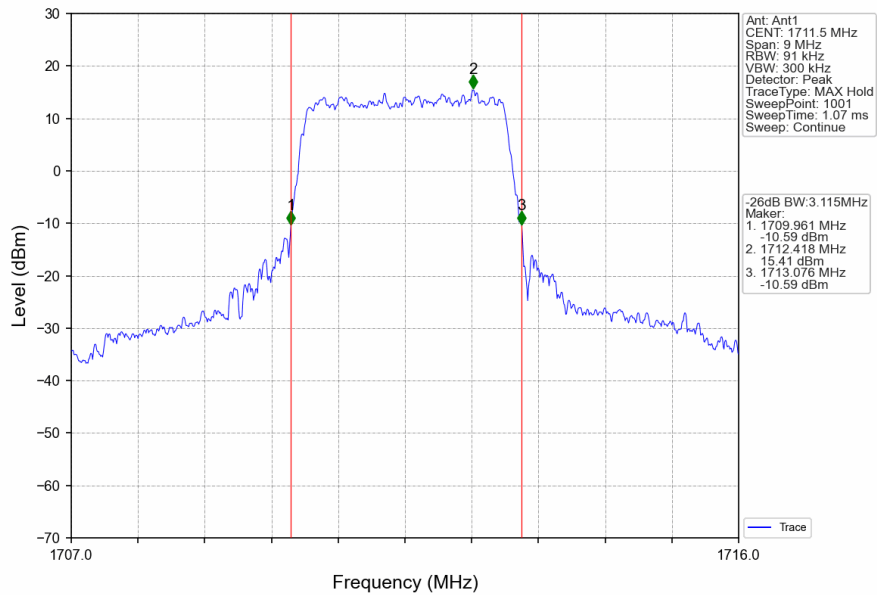
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



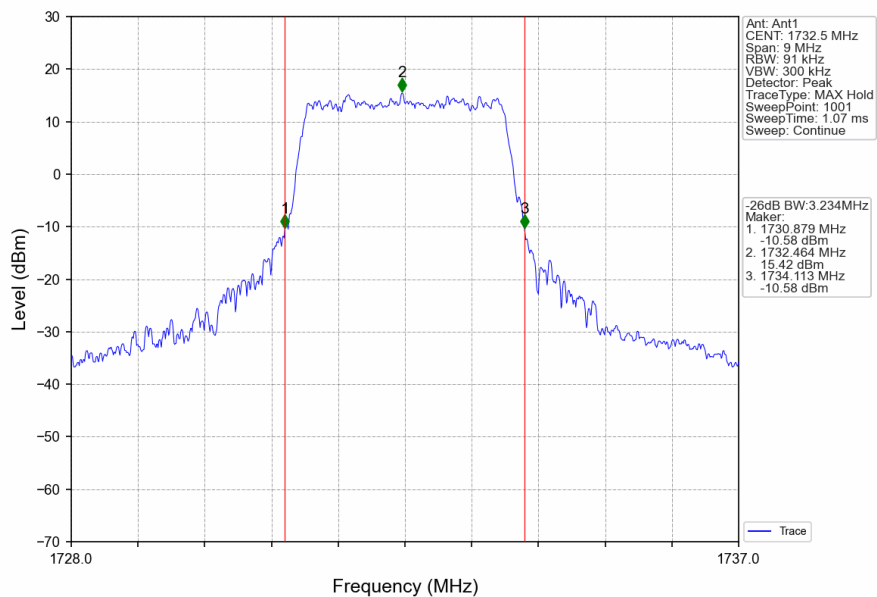
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



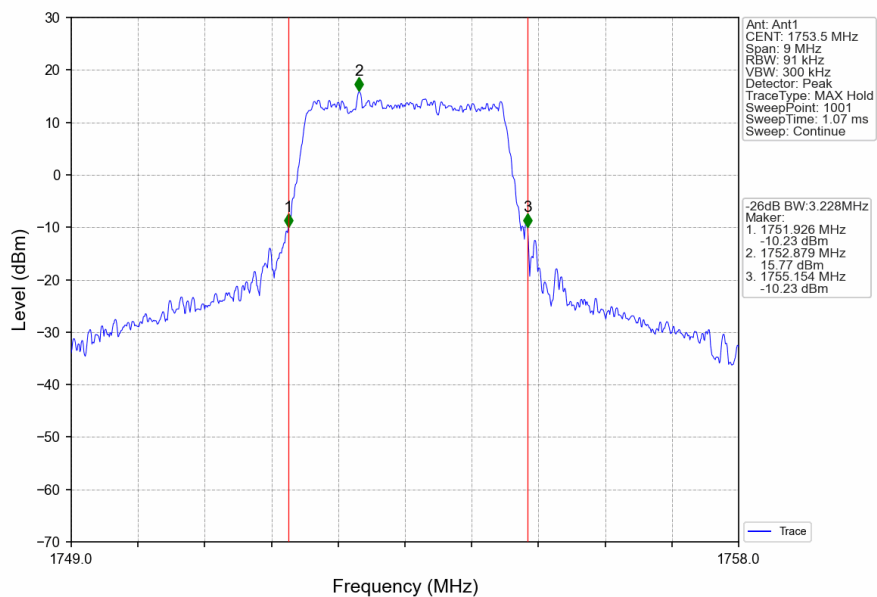
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



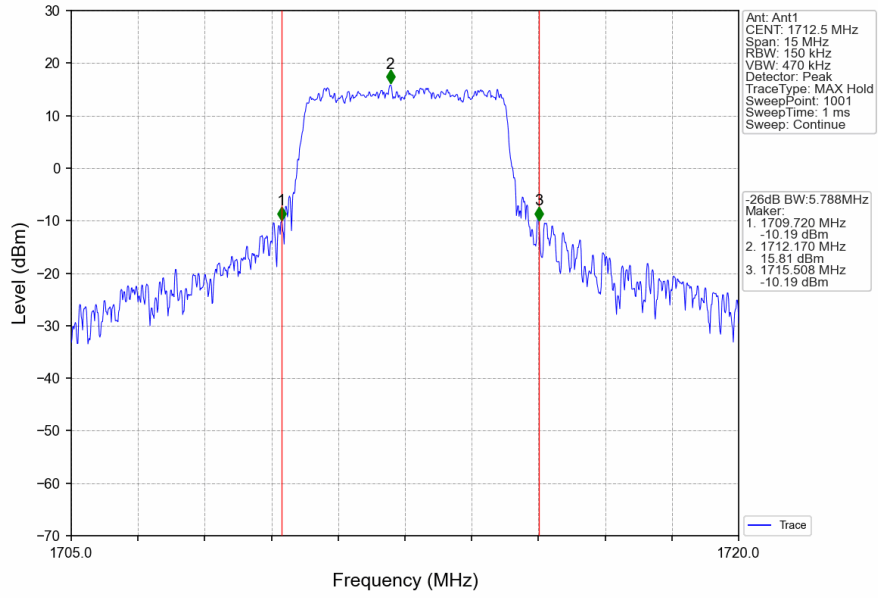
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



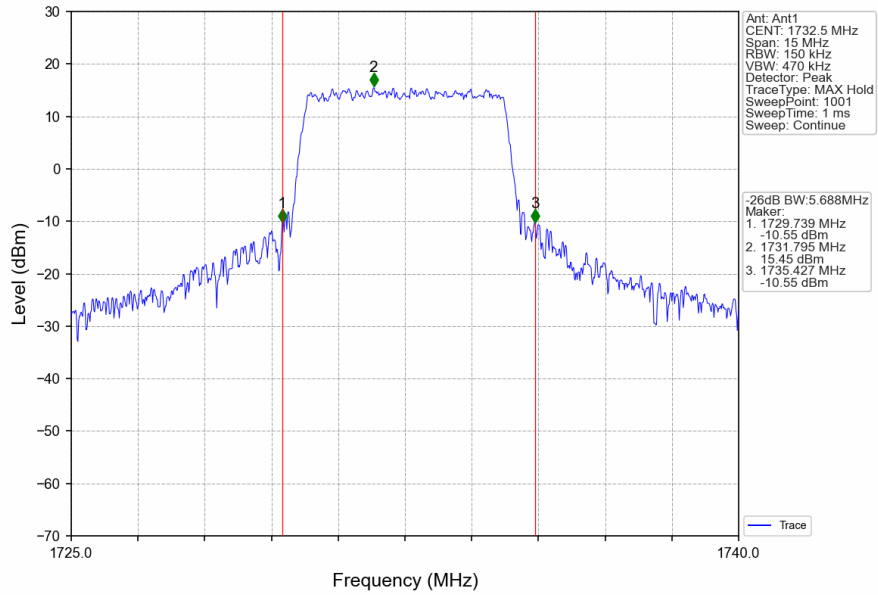
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



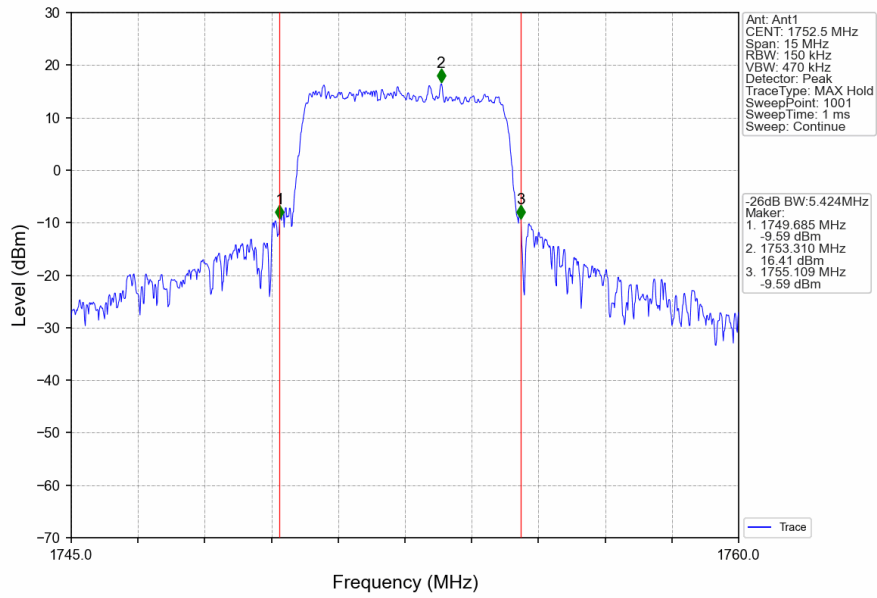
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



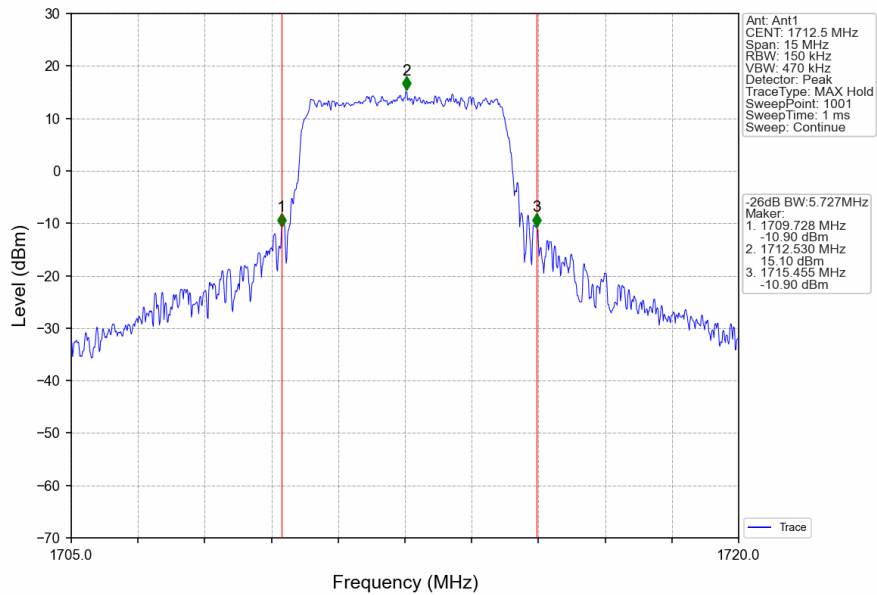
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



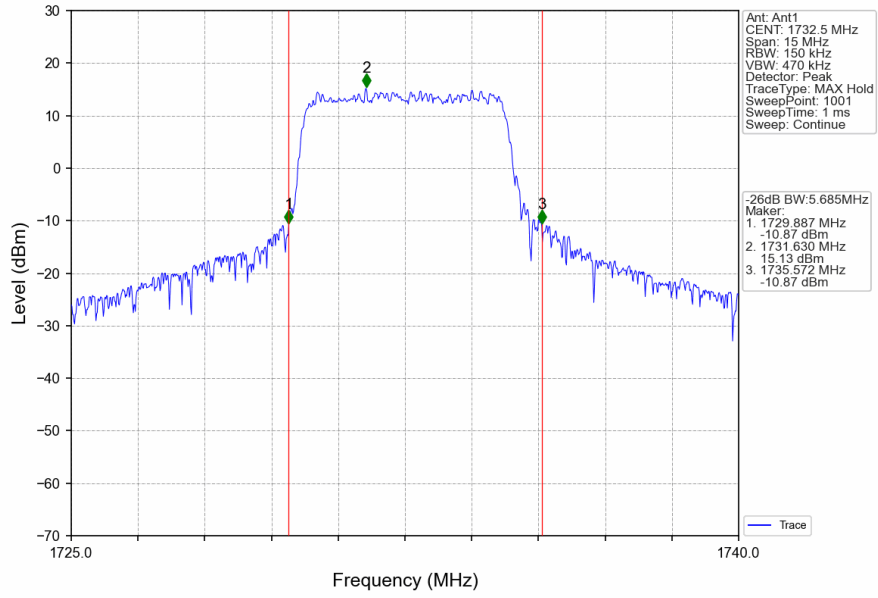
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



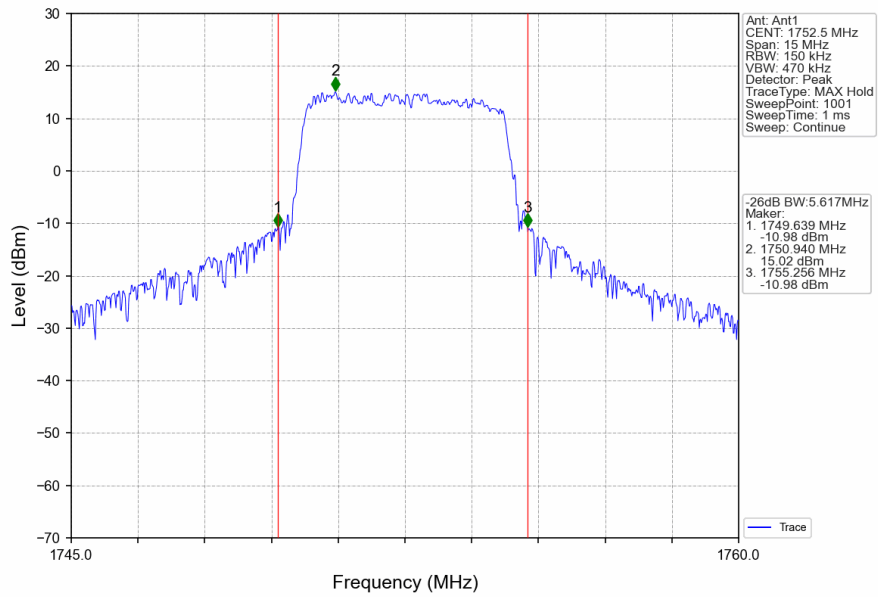
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



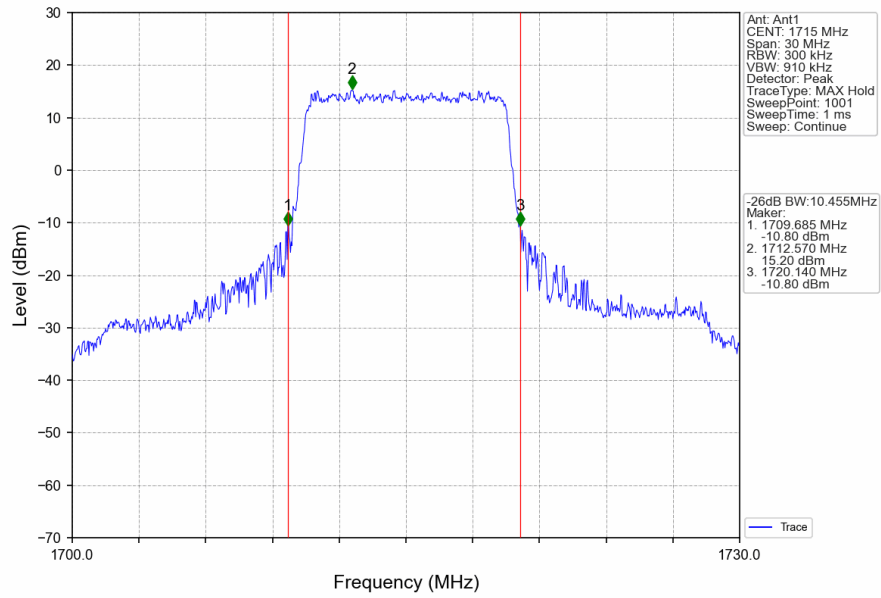
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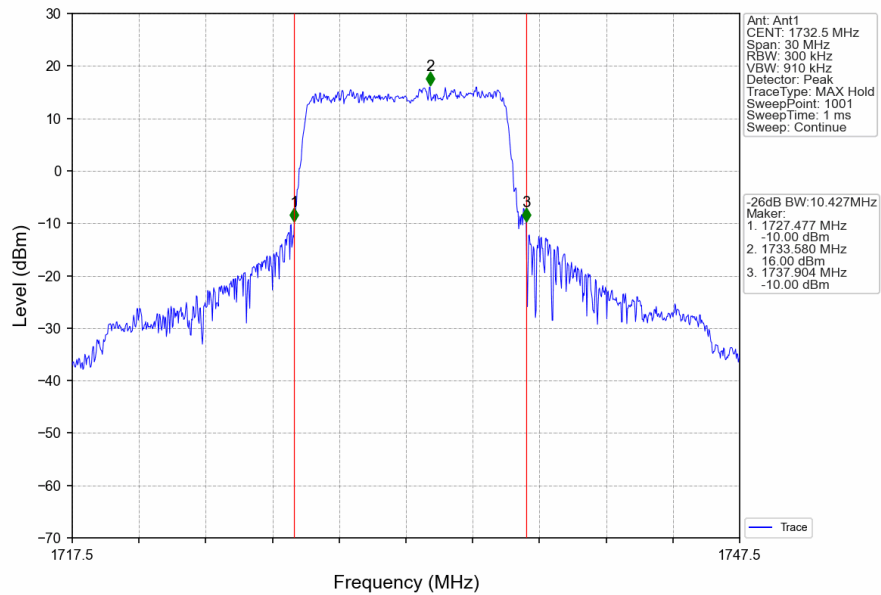
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV

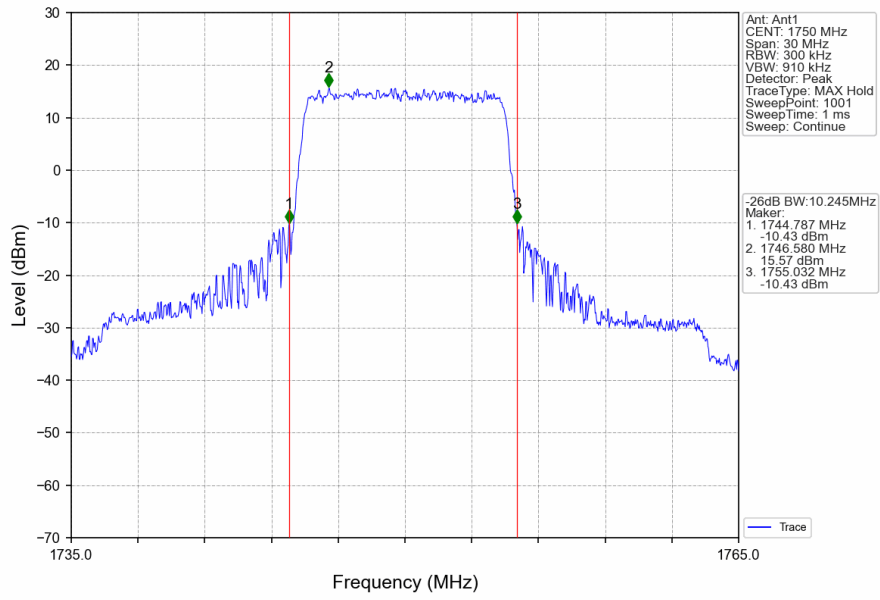


Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV

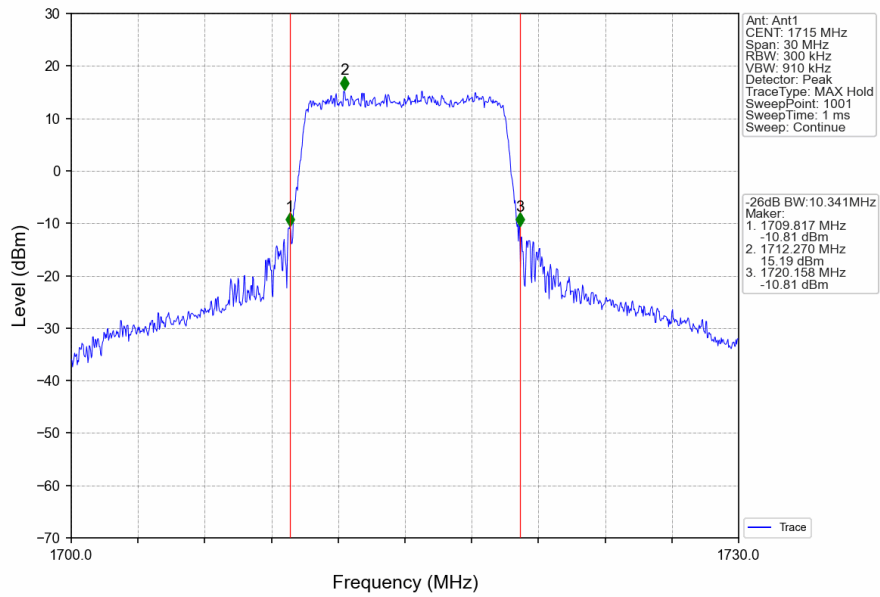




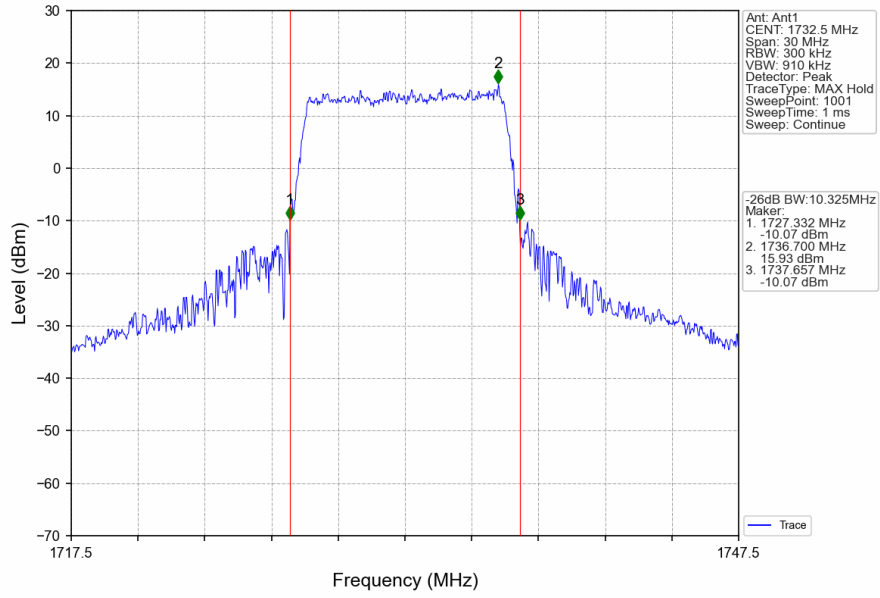
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



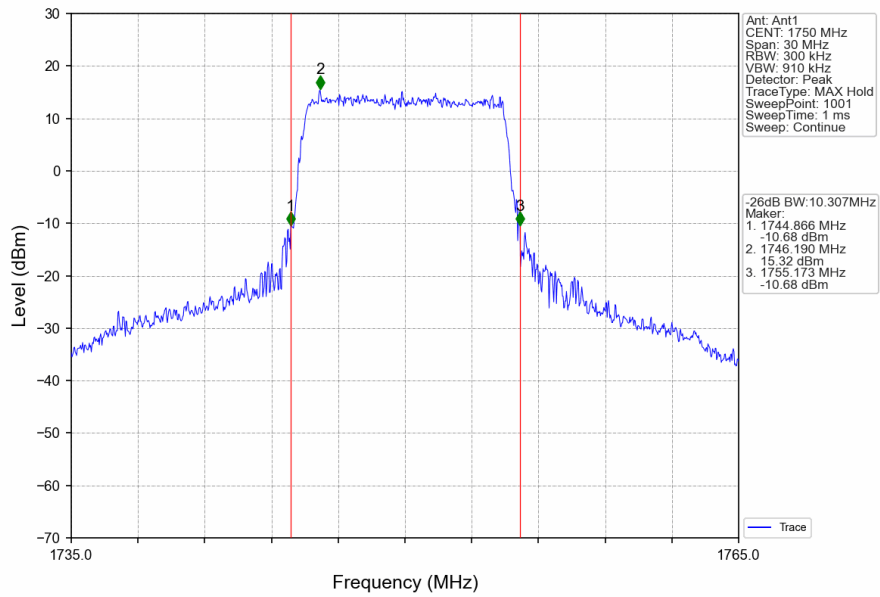
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



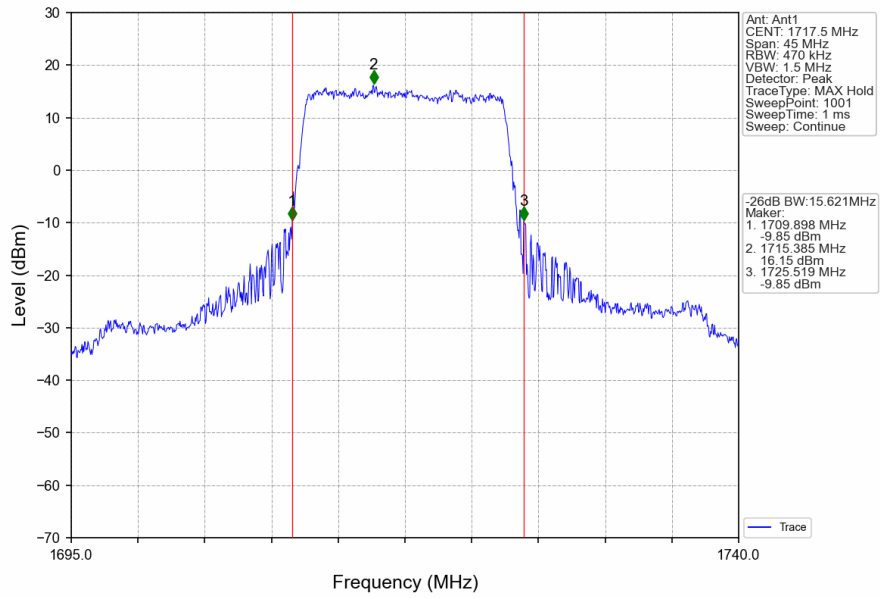
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



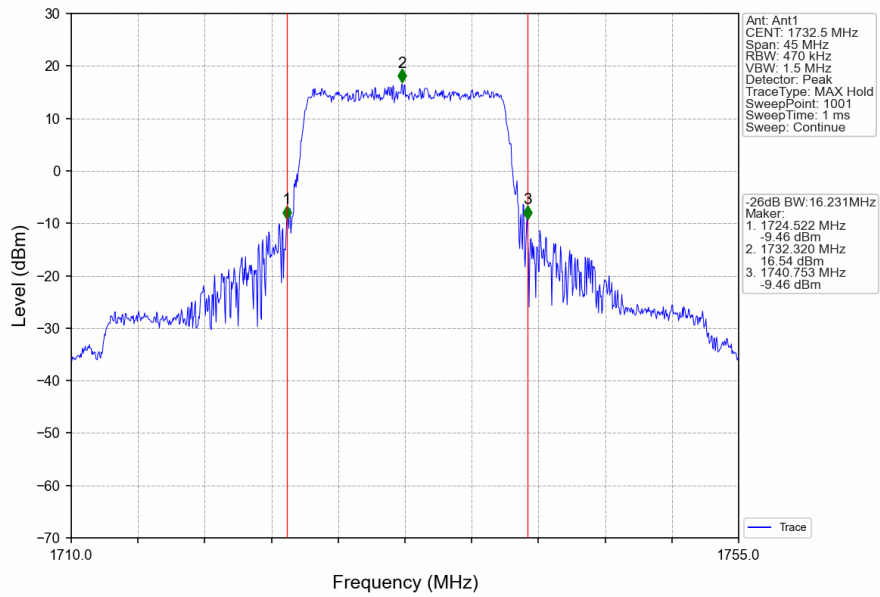
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



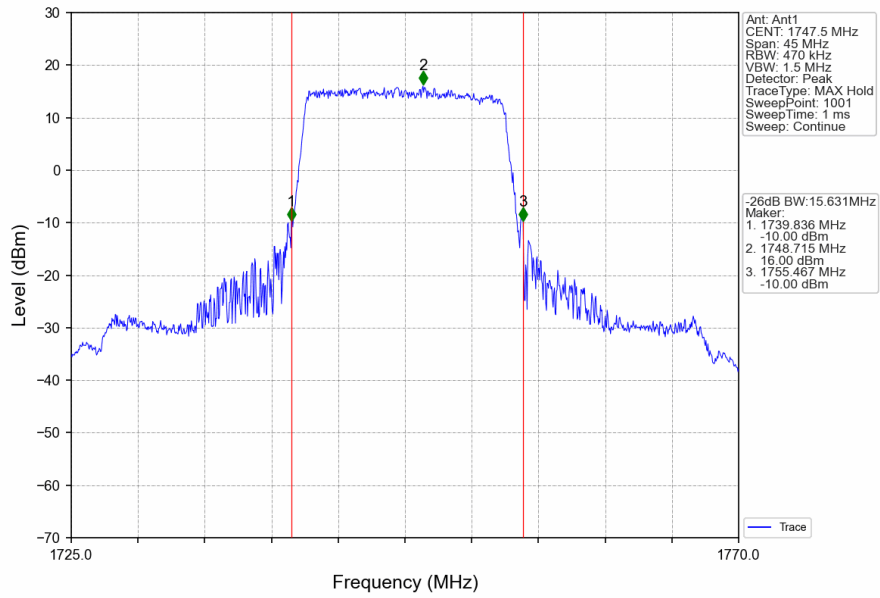
Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



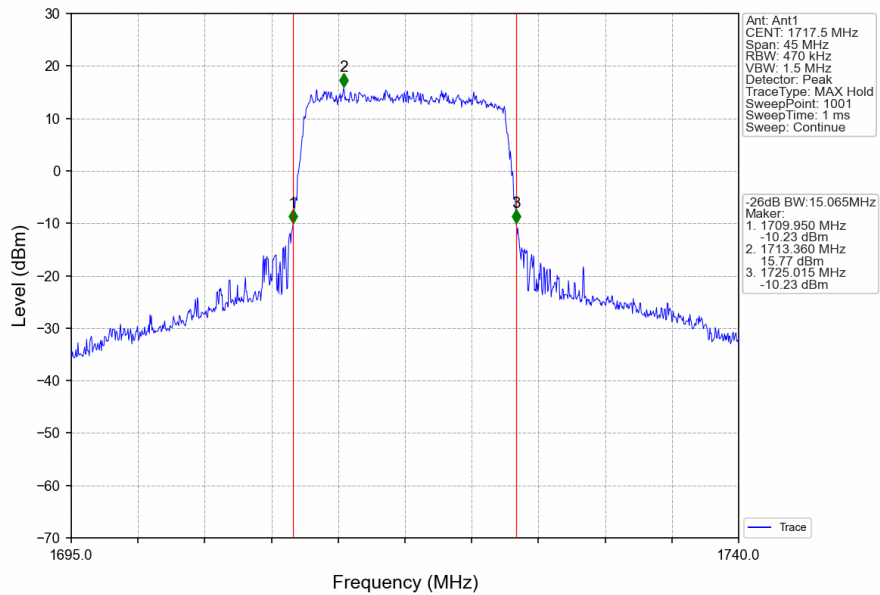
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



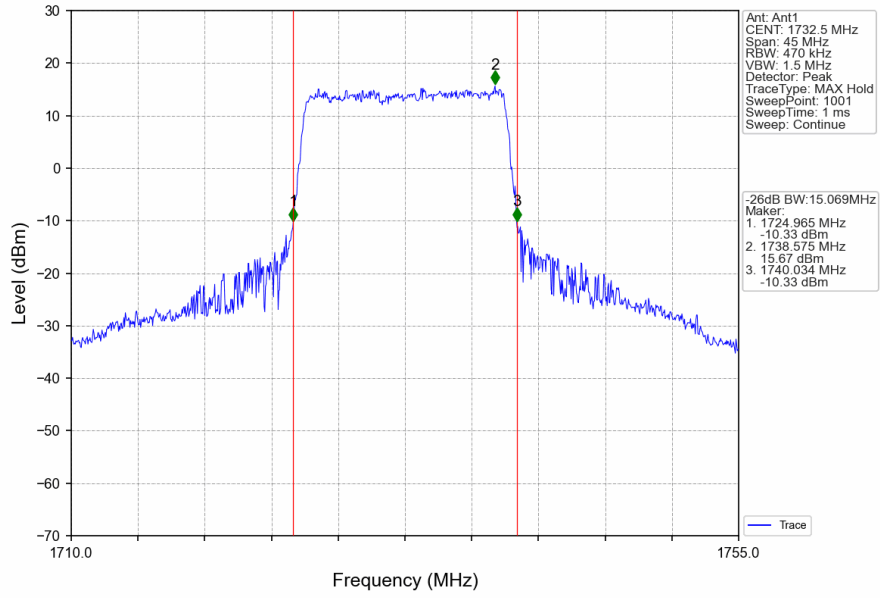
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



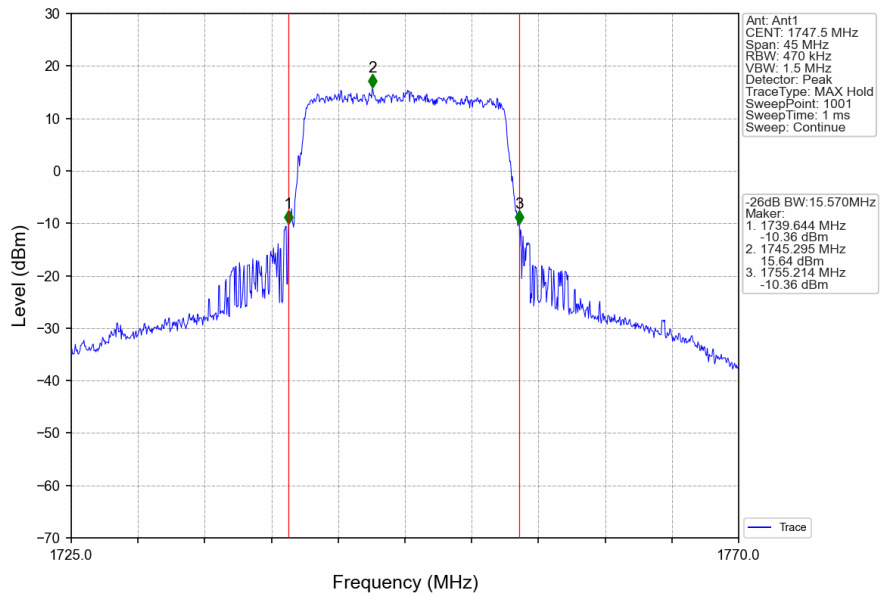
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



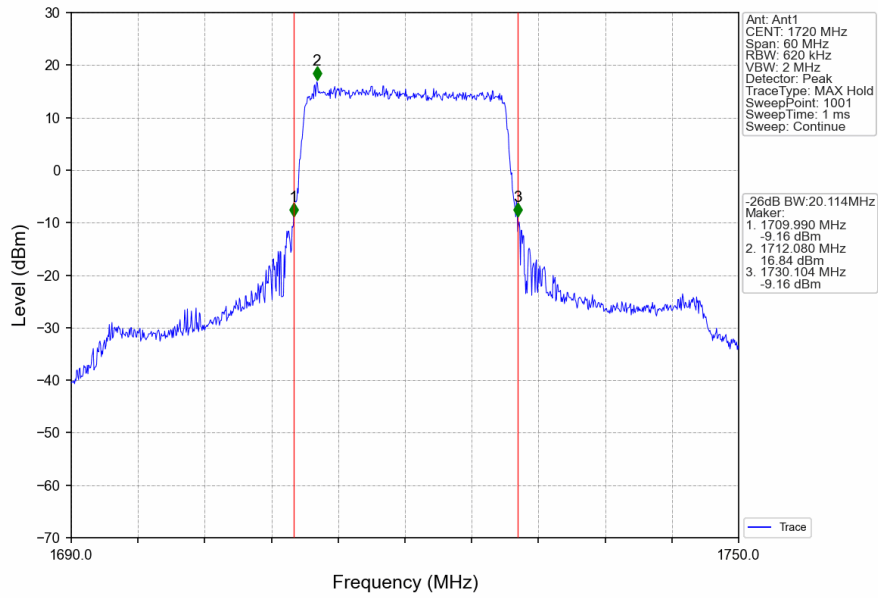
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



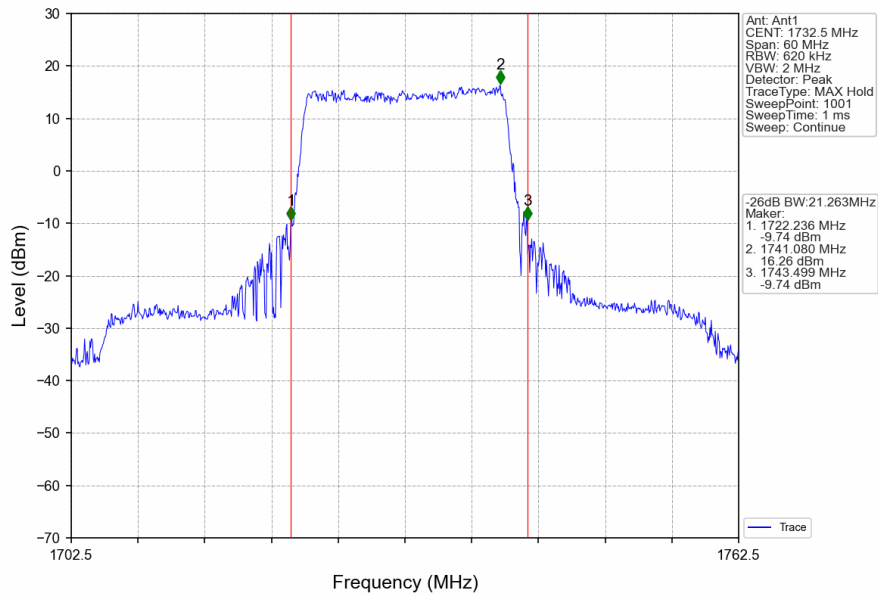
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



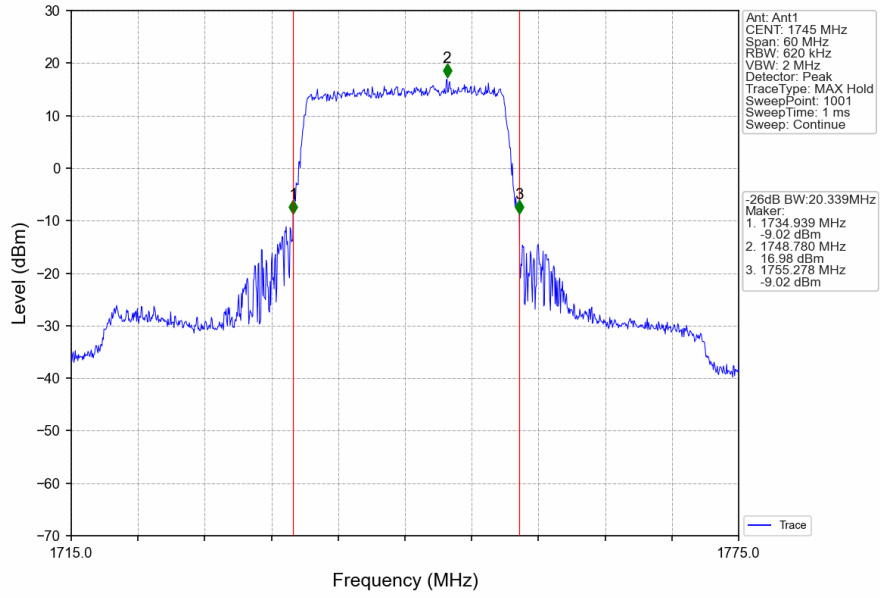
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



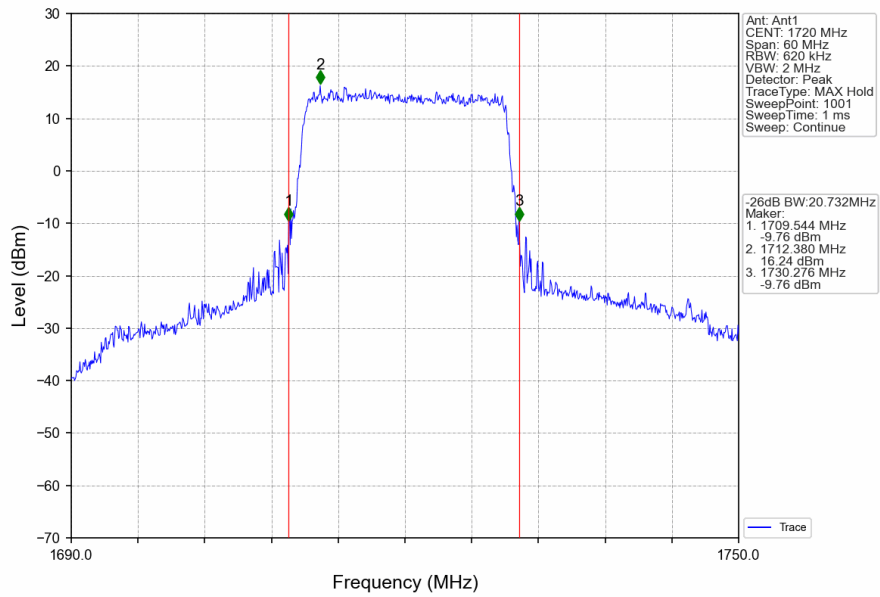
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



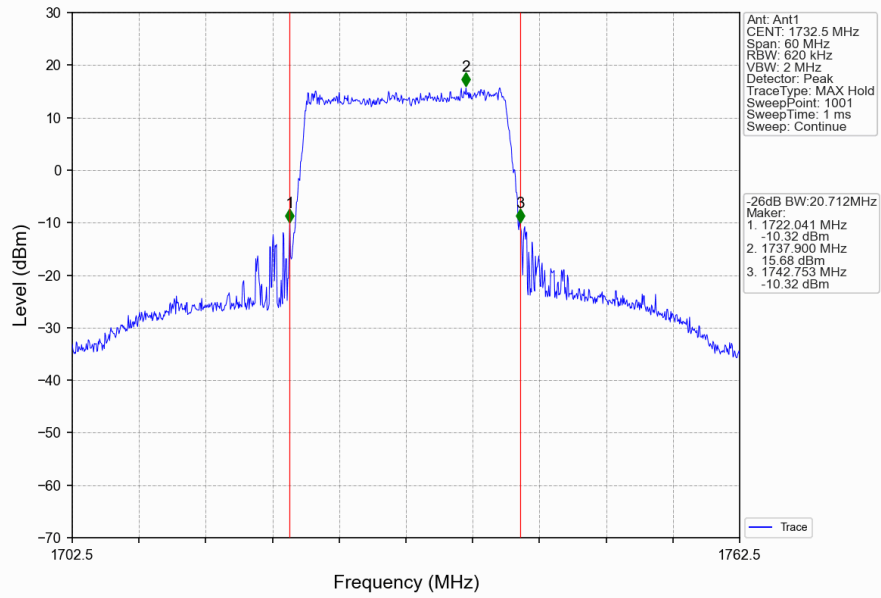
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



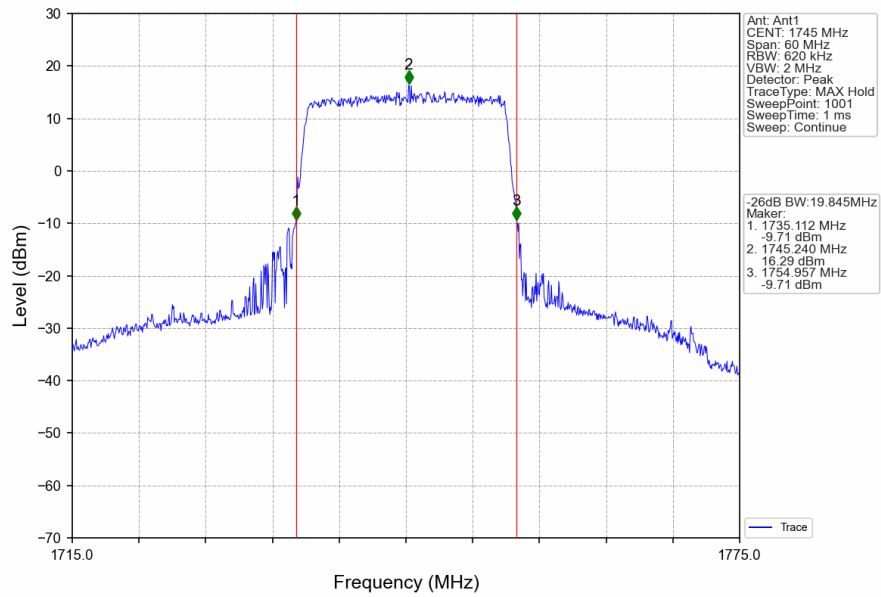
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV





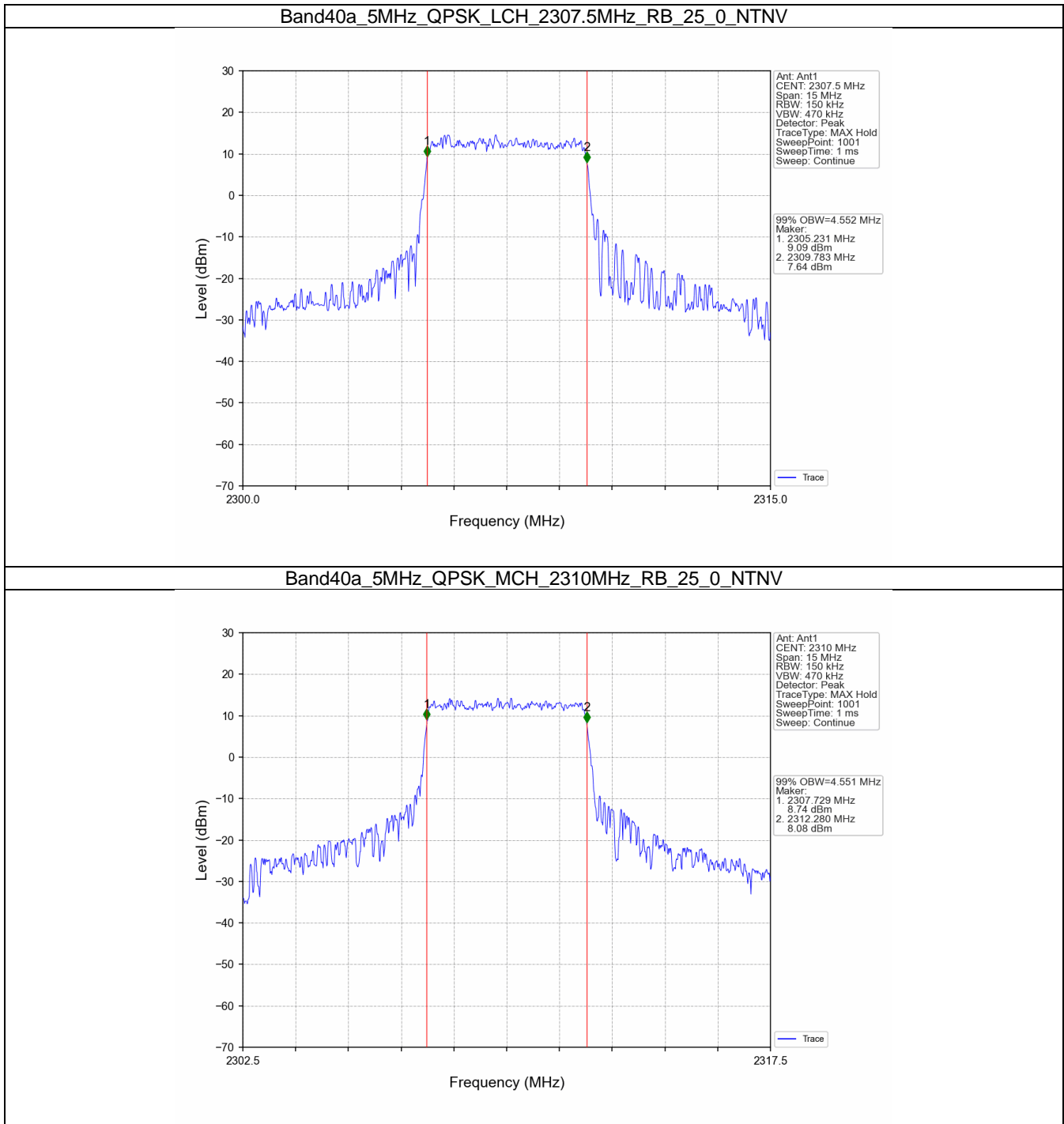
## 4. 99% & 26dB Bandwidth

### 4.1 Band40a\_OBW

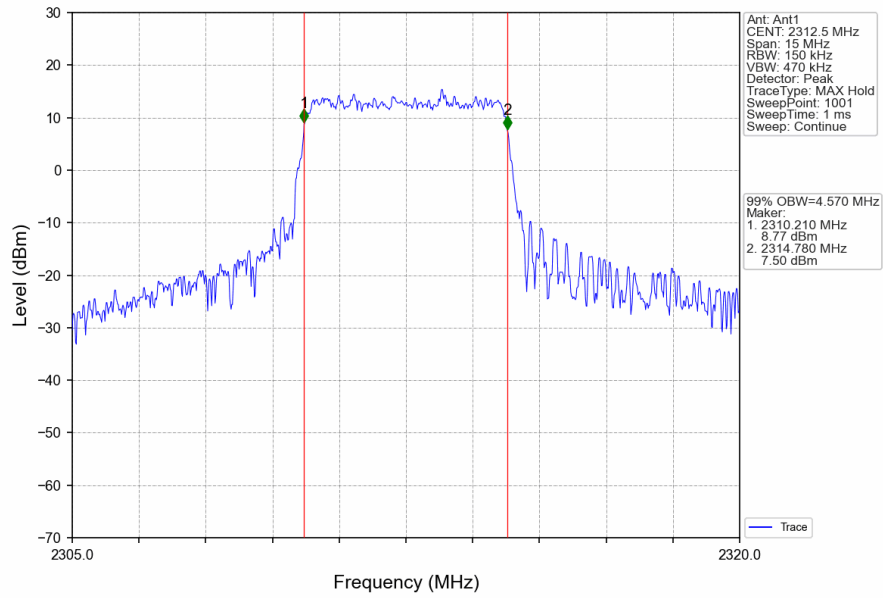
#### 4.1.1 Test Result

Band: 40a / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2307.5	25	0	4.552	Pass
		2310	25	0	4.551	Pass
		2312.5	25	0	4.570	Pass
	16QAM	2307.5	25	0	4.544	Pass
		2310	25	0	4.584	Pass
		2312.5	25	0	4.611	Pass
10	QPSK	2310	50	0	9.102	Pass
	16QAM	2310	50	0	9.062	Pass

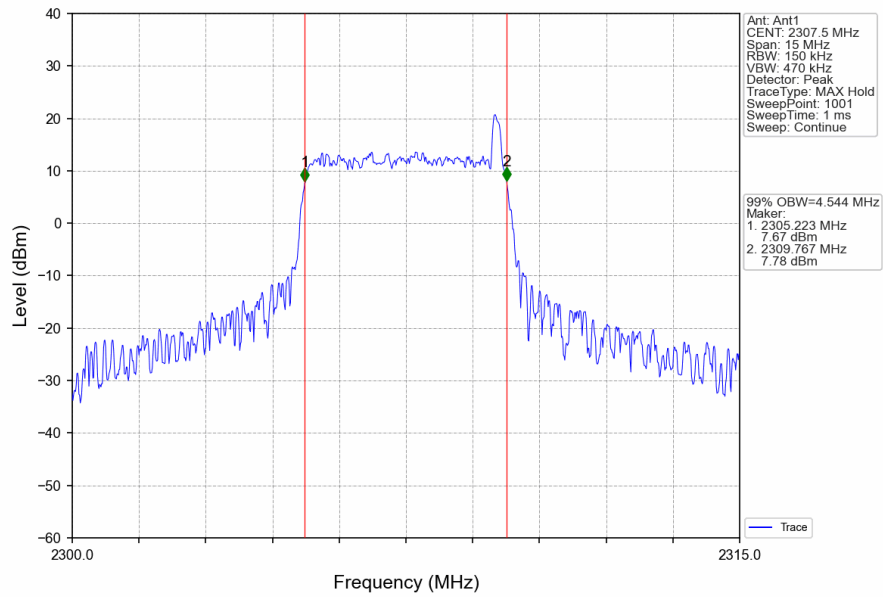
### 4.1.2 Test Graph



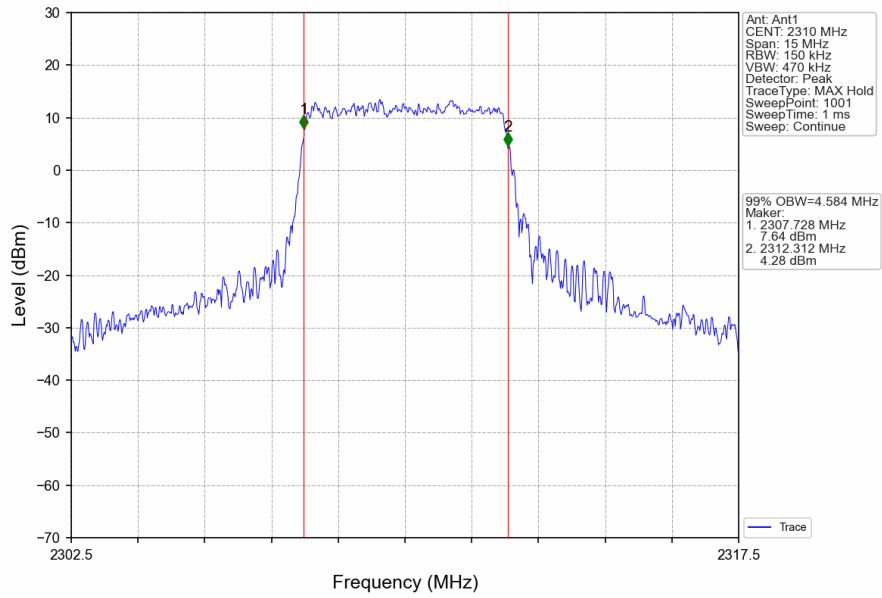
Band40a\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



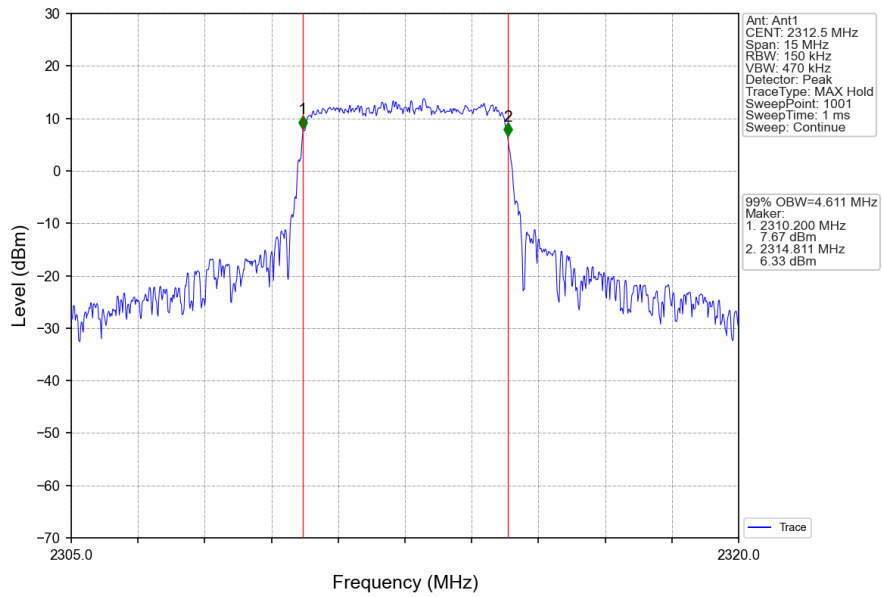
Band40a\_5MHz\_16QAM\_LCH\_2307.5MHz\_RB\_25\_0\_NTNV



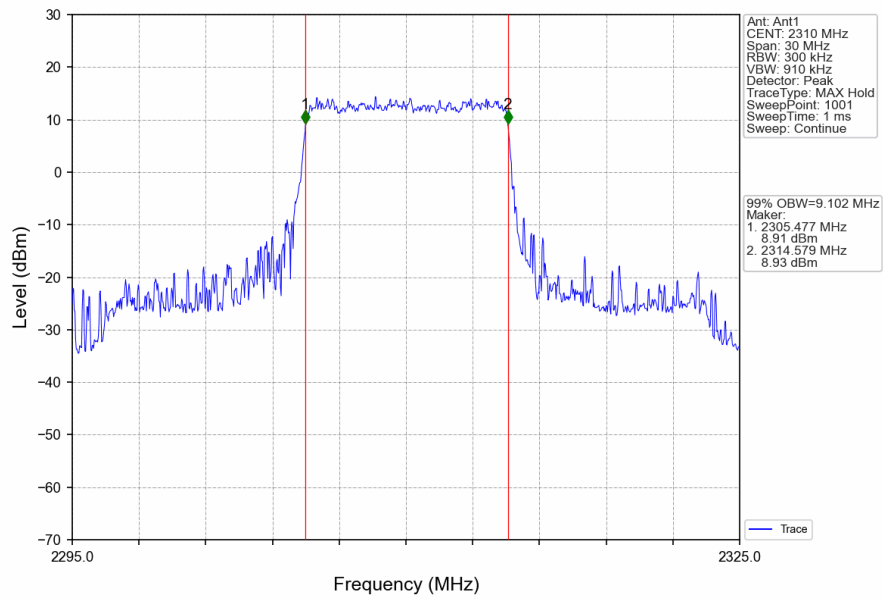
Band40a\_5MHz\_16QAM\_MCH\_2310MHz\_RB\_25\_0\_NTNV



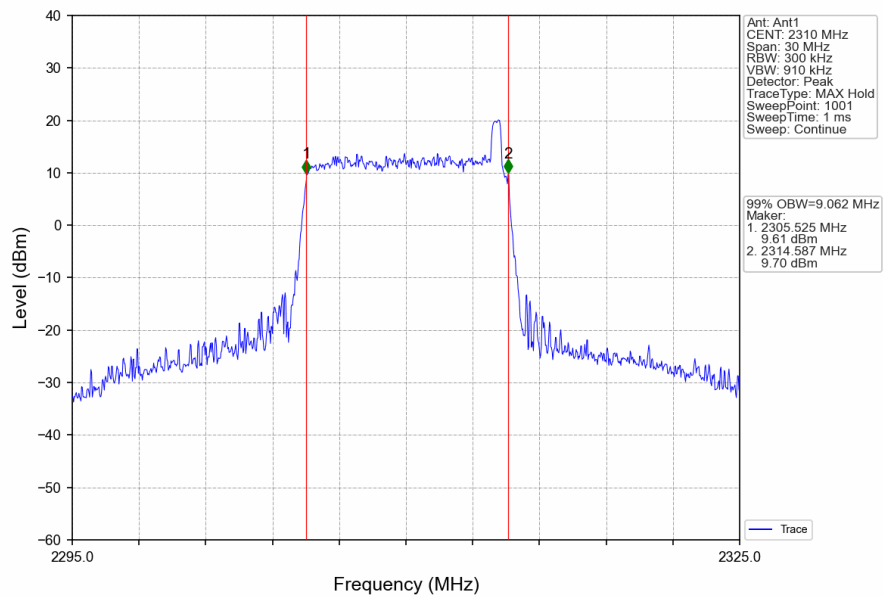
Band40a\_5MHz\_16QAM\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



Band40a\_10MHz\_QPSK\_MCH\_2310MHz\_RB\_50\_0\_NTNV



Band40a\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_50\_0\_NTNV



## 4.2 Band40a\_XDB

### 4.2.1 Test Result

Band: 40a / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2307.5	25	0	5.436	Pass
		2310	25	0	5.646	Pass
		2312.5	25	0	5.626	Pass
	16QAM	2307.5	25	0	4.879	Pass
		2310	25	0	5.376	Pass
		2312.5	25	0	5.730	Pass
10	QPSK	2310	50	0	10.775	Pass
	16QAM	2310	50	0	9.689	Pass