

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B41\_5MHz\_EIRP

### 1.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2498.5	1	0	25.96	0.57	26.53	<=33.01	Pass		
			13	26.02	0.57	26.59	<=33.01	Pass		
			24	25.90	0.57	26.47	<=33.01	Pass		
		12	0	24.83	0.57	25.40	<=33.01	Pass		
			6	24.85	0.57	25.42	<=33.01	Pass		
			13	24.79	0.57	25.36	<=33.01	Pass		
		25	0	24.80	0.57	25.37	<=33.01	Pass		
		2593	1	0	25.65	0.57	26.22	<=33.01	Pass	
				13	25.79	0.57	26.36	<=33.01	Pass	
	24			25.65	0.57	26.22	<=33.01	Pass		
	12		0	24.59	0.57	25.16	<=33.01	Pass		
			6	24.64	0.57	25.21	<=33.01	Pass		
			13	24.57	0.57	25.14	<=33.01	Pass		
	25		0	24.67	0.57	25.24	<=33.01	Pass		
	2687.5		1	0	25.80	0.57	26.37	<=33.01	Pass	
				13	26.16	0.57	26.73	<=33.01	Pass	
		24		26.19	0.57	26.76	<=33.01	Pass		
		12	0	24.87	0.57	25.44	<=33.01	Pass		
			6	24.94	0.57	25.51	<=33.01	Pass		
			13	24.97	0.57	25.54	<=33.01	Pass		
		25	0	24.95	0.57	25.52	<=33.01	Pass		
		16QAM	2498.5	1	0	24.77	0.57	25.34	<=33.01	Pass
					13	24.82	0.57	25.39	<=33.01	Pass
	24				24.73	0.57	25.30	<=33.01	Pass	
12	0			23.77	0.57	24.34	<=33.01	Pass		
	6			23.79	0.57	24.36	<=33.01	Pass		
	13			23.70	0.57	24.27	<=33.01	Pass		
25	0			23.71	0.57	24.28	<=33.01	Pass		
2593	1			0	24.31	0.57	24.88	<=33.01	Pass	
				13	24.75	0.57	25.32	<=33.01	Pass	
			24	24.69	0.57	25.26	<=33.01	Pass		
	12		0	23.54	0.57	24.11	<=33.01	Pass		
			6	23.51	0.57	24.08	<=33.01	Pass		
			13	23.60	0.57	24.17	<=33.01	Pass		
	25		0	23.62	0.57	24.19	<=33.01	Pass		
	2687.5		1	0	24.58	0.57	25.15	<=33.01	Pass	
				13	25.15	0.57	25.72	<=33.01	Pass	
24				25.27	0.57	25.84	<=33.01	Pass		
12			0	23.86	0.57	24.43	<=33.01	Pass		
			6	24.01	0.57	24.58	<=33.01	Pass		
			13	23.90	0.57	24.47	<=33.01	Pass		
25			0	23.88	0.57	24.45	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B41\_10MHz\_EIRP

### 1.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2501	1	0	26.01	0.57	26.58	<=33.01	Pass		
			25	26.20	0.57	26.77	<=33.01	Pass		
			49	25.87	0.57	26.44	<=33.01	Pass		
		25	0	24.94	0.57	25.51	<=33.01	Pass		
			13	24.91	0.57	25.48	<=33.01	Pass		
			25	24.89	0.57	25.46	<=33.01	Pass		
		50	0	24.84	0.57	25.41	<=33.01	Pass		
		2593	1	0	25.79	0.57	26.36	<=33.01	Pass	
				25	26.02	0.57	26.59	<=33.01	Pass	
	49			25.74	0.57	26.31	<=33.01	Pass		
	25		0	24.70	0.57	25.27	<=33.01	Pass		
			13	24.76	0.57	25.33	<=33.01	Pass		
			25	24.77	0.57	25.34	<=33.01	Pass		
	50		0	24.75	0.57	25.32	<=33.01	Pass		
	2685		1	0	25.48	0.57	26.05	<=33.01	Pass	
				25	26.08	0.57	26.65	<=33.01	Pass	
		49		26.20	0.57	26.77	<=33.01	Pass		
		25	0	24.68	0.57	25.25	<=33.01	Pass		
			13	24.81	0.57	25.38	<=33.01	Pass		
			25	24.91	0.57	25.48	<=33.01	Pass		
		50	0	24.81	0.57	25.38	<=33.01	Pass		
		16QAM	2501	1	0	24.75	0.57	25.32	<=33.01	Pass
					25	25.15	0.57	25.72	<=33.01	Pass
	49				24.50	0.57	25.07	<=33.01	Pass	
25	0			23.85	0.57	24.42	<=33.01	Pass		
	13			23.79	0.57	24.36	<=33.01	Pass		
	25			23.81	0.57	24.38	<=33.01	Pass		
50	0			23.77	0.57	24.34	<=33.01	Pass		
2593	1			0	24.46	0.57	25.03	<=33.01	Pass	
				25	24.77	0.57	25.34	<=33.01	Pass	
			49	24.59	0.57	25.16	<=33.01	Pass		
	25		0	23.58	0.57	24.15	<=33.01	Pass		
			13	23.70	0.57	24.27	<=33.01	Pass		
			25	23.66	0.57	24.23	<=33.01	Pass		
	50		0	23.59	0.57	24.16	<=33.01	Pass		
	2685		1	0	24.17	0.57	24.74	<=33.01	Pass	
				25	24.98	0.57	25.55	<=33.01	Pass	
49				25.08	0.57	25.65	<=33.01	Pass		
25			0	23.61	0.57	24.18	<=33.01	Pass		
			13	23.84	0.57	24.41	<=33.01	Pass		
			25	23.89	0.57	24.46	<=33.01	Pass		
50			0	23.75	0.57	24.32	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

### 1.3 B41\_15MHz\_EIRP

#### 1.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	25.83	0.57	26.40	<=33.01	Pass
			38	25.99	0.57	26.56	<=33.01	Pass
			74	25.64	0.57	26.21	<=33.01	Pass

16QAM	2593	36	0	24.88	0.57	25.45	<=33.01	Pass	
			18	24.88	0.57	25.45	<=33.01	Pass	
			39	24.86	0.57	25.43	<=33.01	Pass	
		75	0	24.87	0.57	25.44	<=33.01	Pass	
			1	0	25.60	0.57	26.17	<=33.01	Pass
				38	25.87	0.57	26.44	<=33.01	Pass
		74		25.66	0.57	26.23	<=33.01	Pass	
		36	0	24.69	0.57	25.26	<=33.01	Pass	
			18	24.76	0.57	25.33	<=33.01	Pass	
	39		24.74	0.57	25.31	<=33.01	Pass		
	75	0	24.73	0.57	25.30	<=33.01	Pass		
		1	0	25.03	0.57	25.60	<=33.01	Pass	
			38	25.73	0.57	26.30	<=33.01	Pass	
	74		25.96	0.57	26.53	<=33.01	Pass		
	2682.5	36	0	24.40	0.57	24.97	<=33.01	Pass	
			18	24.67	0.57	25.24	<=33.01	Pass	
			39	24.79	0.57	25.36	<=33.01	Pass	
		75	0	24.65	0.57	25.22	<=33.01	Pass	
			1	0	24.98	0.57	25.55	<=33.01	Pass
				38	25.13	0.57	25.70	<=33.01	Pass
		74		24.61	0.57	25.18	<=33.01	Pass	
		36	0	23.81	0.57	24.38	<=33.01	Pass	
			18	23.82	0.57	24.39	<=33.01	Pass	
	39		23.75	0.57	24.32	<=33.01	Pass		
2503.5	75	0	23.75	0.57	24.32	<=33.01	Pass		
		1	0	24.17	0.57	24.74	<=33.01	Pass	
			38	24.56	0.57	25.13	<=33.01	Pass	
	74		24.39	0.57	24.96	<=33.01	Pass		
	36	0	23.58	0.57	24.15	<=33.01	Pass		
		18	23.64	0.57	24.21	<=33.01	Pass		
		39	23.63	0.57	24.20	<=33.01	Pass		
	2593	75	0	23.60	0.57	24.17	<=33.01	Pass	
			1	0	23.89	0.57	24.46	<=33.01	Pass
38				24.35	0.57	24.92	<=33.01	Pass	
74		24.61		0.57	25.18	<=33.01	Pass		
36		0	23.32	0.57	23.89	<=33.01	Pass		
		18	23.51	0.57	24.08	<=33.01	Pass		
		39	23.73	0.57	24.30	<=33.01	Pass		
75		0	23.53	0.57	24.10	<=33.01	Pass		
		1	0	23.89	0.57	24.46	<=33.01	Pass	
	38		24.35	0.57	24.92	<=33.01	Pass		
74	24.61		0.57	25.18	<=33.01	Pass			
2682.5	36	0	23.32	0.57	23.89	<=33.01	Pass		
		18	23.51	0.57	24.08	<=33.01	Pass		
		39	23.73	0.57	24.30	<=33.01	Pass		
	75	0	23.53	0.57	24.10	<=33.01	Pass		
		1	0	23.89	0.57	24.46	<=33.01	Pass	
			38	24.35	0.57	24.92	<=33.01	Pass	
	74		24.61	0.57	25.18	<=33.01	Pass		
	36	0	23.32	0.57	23.89	<=33.01	Pass		
		18	23.51	0.57	24.08	<=33.01	Pass		
39		23.73	0.57	24.30	<=33.01	Pass			
75	0	23.53	0.57	24.10	<=33.01	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

## 1.4 B41\_20MHz\_EIRP

### 1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2506	1	0	25.63	0.57	26.20	<=33.01	Pass	
			50	26.02	0.57	26.59	<=33.01	Pass	
			99	25.42	0.57	25.99	<=33.01	Pass	
		50	0	24.77	0.57	25.34	<=33.01	Pass	
			25	24.77	0.57	25.34	<=33.01	Pass	
			50	24.57	0.57	25.14	<=33.01	Pass	
	2593	100	0	24.70	0.57	25.27	<=33.01	Pass	
			1	0	25.41	0.57	25.98	<=33.01	Pass
				50	25.95	0.57	26.52	<=33.01	Pass

16QAM	2680	50	99	25.41	0.57	25.98	<=33.01	Pass	
			0	24.57	0.57	25.14	<=33.01	Pass	
			25	24.70	0.57	25.27	<=33.01	Pass	
			50	24.69	0.57	25.26	<=33.01	Pass	
		100	0	24.66	0.57	25.23	<=33.01	Pass	
		1	0	24.90	0.57	25.47	<=33.01	Pass	
			50	25.72	0.57	26.29	<=33.01	Pass	
			99	25.81	0.57	26.38	<=33.01	Pass	
			0	24.20	0.57	24.77	<=33.01	Pass	
			50	25	24.41	0.57	24.98	<=33.01	Pass
				50	24.58	0.57	25.15	<=33.01	Pass
				100	0	24.40	0.57	24.97	<=33.01
	2506		1	0	24.48	0.57	25.05	<=33.01	Pass
		50		25.02	0.57	25.59	<=33.01	Pass	
		99		24.31	0.57	24.88	<=33.01	Pass	
		0		23.65	0.57	24.22	<=33.01	Pass	
		50	25	23.73	0.57	24.30	<=33.01	Pass	
			50	23.57	0.57	24.14	<=33.01	Pass	
			100	0	23.60	0.57	24.17	<=33.01	Pass
		2593	1	0	24.08	0.57	24.65	<=33.01	Pass
				50	24.94	0.57	25.51	<=33.01	Pass
				99	24.08	0.57	24.65	<=33.01	Pass
				0	23.53	0.57	24.10	<=33.01	Pass
			50	25	23.65	0.57	24.22	<=33.01	Pass
50	23.58			0.57	24.15	<=33.01	Pass		
100	0			23.56	0.57	24.13	<=33.01	Pass	
2680	1		0	23.72	0.57	24.29	<=33.01	Pass	
		50	24.81	0.57	25.38	<=33.01	Pass		
		99	24.68	0.57	25.25	<=33.01	Pass		
		0	23.15	0.57	23.72	<=33.01	Pass		
	50	25	23.34	0.57	23.91	<=33.01	Pass		
		50	23.57	0.57	24.14	<=33.01	Pass		
		100	0	23.31	0.57	23.88	<=33.01	Pass	
		0	23.31	0.57	23.88	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 B41\_5MHz

#### 2.1.1 Test Result

Band: 41 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2498.5	25	0	20	3.27	-15.721	-0.0063	-2.5 to 2.5	Pass	
					3.85	-19.727	-0.0079	-2.5 to 2.5	Pass	
					4.43	-42.486	-0.0170	-2.5 to 2.5	Pass	
				-30	3.85	-43.345	-0.0173	-2.5 to 2.5	Pass	
					-20	3.85	-47.922	-0.0192	-2.5 to 2.5	Pass
						-10	3.85	274.200	0.1097	-2.5 to 2.5
					0	3.85	-1.431	-0.0006	-2.5 to 2.5	Pass
					10	3.85	-17.996	-0.0072	-2.5 to 2.5	Pass
					30	3.85	-13.003	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-8.783	-0.0035	-2.5 to 2.5	Pass	
					3.85	-9.971	-0.0040	-2.5 to 2.5	Pass	
					2593	25	0	20	3.27	-27.223

					3.85	-34.461	-0.0133	-2.5 to 2.5	Pass
					4.43	-28.896	-0.0111	-2.5 to 2.5	Pass
				-30	3.85	-24.862	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-37.293	-0.0144	-2.5 to 2.5	Pass
				-10	3.85	-39.153	-0.0151	-2.5 to 2.5	Pass
				0	3.85	-42.186	-0.0163	-2.5 to 2.5	Pass
				10	3.85	-53.773	-0.0207	-2.5 to 2.5	Pass
				30	3.85	-42.443	-0.0164	-2.5 to 2.5	Pass
				40	3.85	-55.704	-0.0215	-2.5 to 2.5	Pass
	50	3.85	-44.689	-0.0172	-2.5 to 2.5	Pass			
	2687.5	25	0	20	3.27	12.245	0.0046	-2.5 to 2.5	Pass
					3.85	-5.322	-0.0020	-2.5 to 2.5	Pass
					4.43	-2.503	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	6.967	0.0026	-2.5 to 2.5	Pass
				-20	3.85	18.783	0.0070	-2.5 to 2.5	Pass
				-10	3.85	28.982	0.0108	-2.5 to 2.5	Pass
				0	3.85	31.614	0.0118	-2.5 to 2.5	Pass
				10	3.85	22.588	0.0084	-2.5 to 2.5	Pass
30				3.85	15.478	0.0058	-2.5 to 2.5	Pass	
40	3.85	12.002	0.0045	-2.5 to 2.5	Pass				
50	3.85	42.615	0.0159	-2.5 to 2.5	Pass				
16QAM	2498.5	25	0	20	3.27	-12.074	-0.0048	-2.5 to 2.5	Pass
					3.85	-13.089	-0.0052	-2.5 to 2.5	Pass
					4.43	-13.719	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-18.511	-0.0074	-2.5 to 2.5	Pass
				-20	3.85	-0.772	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-5.093	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-17.610	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-11.845	-0.0047	-2.5 to 2.5	Pass
				30	3.85	1.559	0.0006	-2.5 to 2.5	Pass
	40	3.85	-19.898	-0.0080	-2.5 to 2.5	Pass			
	50	3.85	3.977	0.0016	-2.5 to 2.5	Pass			
	2593	25	0	20	3.27	-55.232	-0.0213	-2.5 to 2.5	Pass
					3.85	-57.549	-0.0222	-2.5 to 2.5	Pass
					4.43	-37.179	-0.0143	-2.5 to 2.5	Pass
				-30	3.85	-69.680	-0.0269	-2.5 to 2.5	Pass
				-20	3.85	-61.870	-0.0239	-2.5 to 2.5	Pass
				-10	3.85	-46.520	-0.0179	-2.5 to 2.5	Pass
				0	3.85	-54.860	-0.0212	-2.5 to 2.5	Pass
10				3.85	-61.026	-0.0235	-2.5 to 2.5	Pass	
30				3.85	-58.851	-0.0227	-2.5 to 2.5	Pass	
40	3.85	-48.251	-0.0186	-2.5 to 2.5	Pass				
50	3.85	-67.248	-0.0259	-2.5 to 2.5	Pass				
2687.5	25	0	20	3.27	36.750	0.0137	-2.5 to 2.5	Pass	
				3.85	43.430	0.0162	-2.5 to 2.5	Pass	
				4.43	51.098	0.0190	-2.5 to 2.5	Pass	
			-30	3.85	32.601	0.0121	-2.5 to 2.5	Pass	
			-20	3.85	38.280	0.0142	-2.5 to 2.5	Pass	
			-10	3.85	48.923	0.0182	-2.5 to 2.5	Pass	
			0	3.85	38.881	0.0145	-2.5 to 2.5	Pass	
			10	3.85	56.477	0.0210	-2.5 to 2.5	Pass	
			30	3.85	34.704	0.0129	-2.5 to 2.5	Pass	
40	3.85	47.479	0.0177	-2.5 to 2.5	Pass				
50	3.85	52.342	0.0195	-2.5 to 2.5	Pass				

## 2.2 B41\_10MHz

## 2.2.1 Test Result

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	3.27	-10.042	-0.0040	-2.5 to 2.5	Pass
					3.85	-7.210	-0.0029	-2.5 to 2.5	Pass
					4.43	-20.928	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-12.631	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-17.452	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	-9.727	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-31.028	-0.0124	-2.5 to 2.5	Pass
				10	3.85	-22.230	-0.0089	-2.5 to 2.5	Pass
				30	3.85	-10.400	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-17.581	-0.0070	-2.5 to 2.5	Pass
	50	3.85	-14.277	-0.0057	-2.5 to 2.5	Pass			
	2593	50	0	20	3.27	-24.376	-0.0094	-2.5 to 2.5	Pass
					3.85	-25.291	-0.0098	-2.5 to 2.5	Pass
					4.43	-18.182	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-18.811	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-13.790	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-14.577	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-4.864	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-13.604	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-16.351	-0.0063	-2.5 to 2.5	Pass
				40	3.85	-18.911	-0.0073	-2.5 to 2.5	Pass
	50	3.85	-23.074	-0.0089	-2.5 to 2.5	Pass			
	2685	50	0	20	3.27	-13.204	-0.0049	-2.5 to 2.5	Pass
					3.85	-13.947	-0.0052	-2.5 to 2.5	Pass
					4.43	-8.883	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-8.512	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-13.304	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-18.468	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-12.989	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-6.294	-0.0023	-2.5 to 2.5	Pass
30				3.85	-3.018	-0.0011	-2.5 to 2.5	Pass	
40				3.85	-20.170	-0.0075	-2.5 to 2.5	Pass	
50	3.85	-19.212	-0.0072	-2.5 to 2.5	Pass				
16QAM	2501	50	0	20	3.27	0.386	0.0002	-2.5 to 2.5	Pass
					3.85	-12.918	-0.0052	-2.5 to 2.5	Pass
					4.43	-11.358	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-11.187	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-10.643	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-1.960	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-9.055	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-7.024	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-7.954	-0.0032	-2.5 to 2.5	Pass
				40	3.85	-12.503	-0.0050	-2.5 to 2.5	Pass
	50	3.85	-9.613	-0.0038	-2.5 to 2.5	Pass			
	2593	50	0	20	3.27	-7.553	-0.0029	-2.5 to 2.5	Pass
					3.85	-4.091	-0.0016	-2.5 to 2.5	Pass
					4.43	-11.144	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-18.525	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-21.114	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-15.321	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-12.288	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-19.941	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-10.471	-0.0040	-2.5 to 2.5	Pass
40				3.85	-14.935	-0.0058	-2.5 to 2.5	Pass	

	2685	50	0	50	3.85	-10.071	-0.0039	-2.5 to 2.5	Pass
				20	3.27	1.388	0.0005	-2.5 to 2.5	Pass
					3.85	-3.934	-0.0015	-2.5 to 2.5	Pass
					4.43	0.587	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-17.796	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-7.195	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-11.802	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-11.144	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-14.219	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-1.888	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-3.104	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-10.643	-0.0040	-2.5 to 2.5	Pass

## 2.3 B41\_15MHz

### 2.3.1 Test Result

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2503.5	75	0	20	3.27	-18.983	-0.0076	-2.5 to 2.5	Pass
					3.85	-11.587	-0.0046	-2.5 to 2.5	Pass
					4.43	-12.717	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-3.905	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-10.571	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-5.808	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-17.152	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-9.556	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-8.383	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-14.777	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-10.386	-0.0041	-2.5 to 2.5	Pass
				2593	75	0	20	3.27	-18.697
	3.85	-4.978	-0.0019					-2.5 to 2.5	Pass
	4.43	-12.746	-0.0049					-2.5 to 2.5	Pass
	-30	3.85	-11.001				-0.0042	-2.5 to 2.5	Pass
	-20	3.85	-0.601				-0.0002	-2.5 to 2.5	Pass
	-10	3.85	-2.718				-0.0010	-2.5 to 2.5	Pass
	0	3.85	-15.135				-0.0058	-2.5 to 2.5	Pass
	10	3.85	3.848				0.0015	-2.5 to 2.5	Pass
	30	3.85	-15.249				-0.0059	-2.5 to 2.5	Pass
	40	3.85	-4.120				-0.0016	-2.5 to 2.5	Pass
	50	3.85	-6.495				-0.0025	-2.5 to 2.5	Pass
	2682.5	75	0				20	3.27	-11.787
				3.85	-3.190	-0.0012		-2.5 to 2.5	Pass
				4.43	-4.892	-0.0018		-2.5 to 2.5	Pass
				-30	3.85	-19.412	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-6.251	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-5.422	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-6.580	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-3.619	-0.0013	-2.5 to 2.5	Pass
30				3.85	-14.076	-0.0052	-2.5 to 2.5	Pass	
40				3.85	-2.375	-0.0009	-2.5 to 2.5	Pass	
50				3.85	-6.795	-0.0025	-2.5 to 2.5	Pass	
16QAM				2503.5	75	0	20	3.27	-6.909
	3.85	-13.433	-0.0054					-2.5 to 2.5	Pass
	4.43	-21.944	-0.0088					-2.5 to 2.5	Pass
	-30	3.85	-9.456				-0.0038	-2.5 to 2.5	Pass

	2593	75	0	-20	3.85	-10.242	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-13.304	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-10.371	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-1.960	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-9.842	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-9.899	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-6.523	-0.0026	-2.5 to 2.5	Pass
				20	3.27	-6.423	-0.0025	-2.5 to 2.5	Pass
					3.85	-14.291	-0.0055	-2.5 to 2.5	Pass
					4.43	-0.515	-0.0002	-2.5 to 2.5	Pass
	-30	3.85	-8.912	-0.0034	-2.5 to 2.5	Pass			
	-20	3.85	-7.982	-0.0031	-2.5 to 2.5	Pass			
	-10	3.85	-7.138	-0.0028	-2.5 to 2.5	Pass			
	0	3.85	-7.052	-0.0027	-2.5 to 2.5	Pass			
	10	3.85	-6.437	-0.0025	-2.5 to 2.5	Pass			
	30	3.85	-8.454	-0.0033	-2.5 to 2.5	Pass			
	40	3.85	2.818	0.0011	-2.5 to 2.5	Pass			
	50	3.85	-12.059	-0.0047	-2.5 to 2.5	Pass			
	2682.5	75	0	20	3.27	-3.119	-0.0012	-2.5 to 2.5	Pass
					3.85	-4.249	-0.0016	-2.5 to 2.5	Pass
					4.43	0.086	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-3.319	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-4.034	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-5.164	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-8.798	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-16.308	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-8.297	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-12.975	-0.0048	-2.5 to 2.5	Pass
	50	3.85	-9.527	-0.0036	-2.5 to 2.5	Pass			

## 2.4 B41\_20MHz

### 2.4.1 Test Result

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	3.27	-17.781	-0.0071	-2.5 to 2.5	Pass
					3.85	-13.876	-0.0055	-2.5 to 2.5	Pass
					4.43	-15.607	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-11.344	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-15.450	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-8.883	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-9.313	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-10.414	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-0.343	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-8.855	-0.0035	-2.5 to 2.5	Pass
	50	3.85	-11.287	-0.0045	-2.5 to 2.5	Pass			
	2593	100	0	20	3.27	-17.738	-0.0068	-2.5 to 2.5	Pass
					3.85	-20.728	-0.0080	-2.5 to 2.5	Pass
					4.43	-6.638	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-4.821	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-16.007	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-16.079	-0.0062	-2.5 to 2.5	Pass
				0	3.85	-9.913	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-9.885	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-16.279	-0.0063	-2.5 to 2.5	Pass



	2680	100	0	40	3.85	-7.424	-0.0029	-2.5 to 2.5	Pass			
				50	3.85	-14.877	-0.0057	-2.5 to 2.5	Pass			
				20	3.27	-11.415	-0.0043	-2.5 to 2.5	Pass			
					3.85	-1.631	-0.0006	-2.5 to 2.5	Pass			
					4.43	-13.962	-0.0052	-2.5 to 2.5	Pass			
				-30	3.85	-4.263	-0.0016	-2.5 to 2.5	Pass			
				-20	3.85	-9.956	-0.0037	-2.5 to 2.5	Pass			
				-10	3.85	-10.443	-0.0039	-2.5 to 2.5	Pass			
				0	3.85	-4.148	-0.0015	-2.5 to 2.5	Pass			
				10	3.85	-8.683	-0.0032	-2.5 to 2.5	Pass			
				30	3.85	-16.809	-0.0063	-2.5 to 2.5	Pass			
				40	3.85	-9.499	-0.0035	-2.5 to 2.5	Pass			
				50	3.85	-10.700	-0.0040	-2.5 to 2.5	Pass			
				16QAM	2506	100	0	20	3.27	3.519	0.0014	-2.5 to 2.5
3.85	-2.217	-0.0009	-2.5 to 2.5						Pass			
4.43	-6.380	-0.0025	-2.5 to 2.5						Pass			
-30	3.85	-3.090	-0.0012					-2.5 to 2.5	Pass			
-20	3.85	-7.968	-0.0032					-2.5 to 2.5	Pass			
-10	3.85	-9.112	-0.0036					-2.5 to 2.5	Pass			
0	3.85	-7.110	-0.0028					-2.5 to 2.5	Pass			
10	3.85	-9.112	-0.0036					-2.5 to 2.5	Pass			
30	3.85	-9.370	-0.0037					-2.5 to 2.5	Pass			
40	3.85	-11.144	-0.0044					-2.5 to 2.5	Pass			
50	3.85	-2.375	-0.0009					-2.5 to 2.5	Pass			
2593	100	0	20					3.27	-1.459	-0.0006	-2.5 to 2.5	Pass
								3.85	-7.997	-0.0031	-2.5 to 2.5	Pass
								4.43	-0.401	-0.0002	-2.5 to 2.5	Pass
			-30		3.85	-5.479	-0.0021	-2.5 to 2.5	Pass			
			-20		3.85	-8.497	-0.0033	-2.5 to 2.5	Pass			
			-10		3.85	-11.058	-0.0043	-2.5 to 2.5	Pass			
			0		3.85	-2.260	-0.0009	-2.5 to 2.5	Pass			
			10		3.85	-11.358	-0.0044	-2.5 to 2.5	Pass			
			30		3.85	-8.640	-0.0033	-2.5 to 2.5	Pass			
			40		3.85	-5.565	-0.0021	-2.5 to 2.5	Pass			
			50		3.85	-21.329	-0.0082	-2.5 to 2.5	Pass			
			2680		100	0	20	3.27	-9.642	-0.0036	-2.5 to 2.5	Pass
								3.85	-10.042	-0.0037	-2.5 to 2.5	Pass
								4.43	-5.736	-0.0021	-2.5 to 2.5	Pass
-30	3.85	-4.106					-0.0015	-2.5 to 2.5	Pass			
-20	3.85	-12.059					-0.0045	-2.5 to 2.5	Pass			
-10	3.85	-6.680					-0.0025	-2.5 to 2.5	Pass			
0	3.85	-14.091		-0.0053			-2.5 to 2.5	Pass				
10	3.85	-13.719		-0.0051			-2.5 to 2.5	Pass				
30	3.85	-15.950		-0.0060			-2.5 to 2.5	Pass				
40	3.85	-15.106		-0.0056			-2.5 to 2.5	Pass				
50	3.85	-7.367		-0.0027			-2.5 to 2.5	Pass				

### 3. Modulation Characteristics

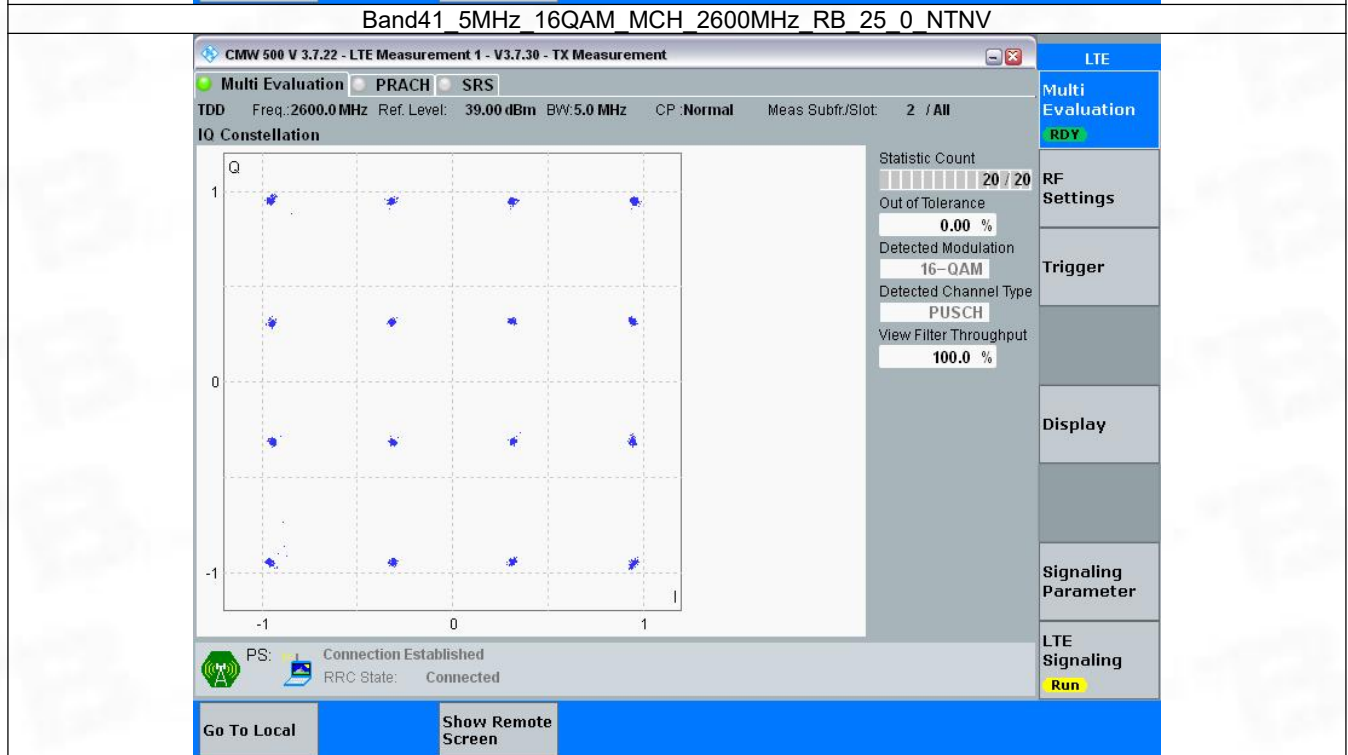
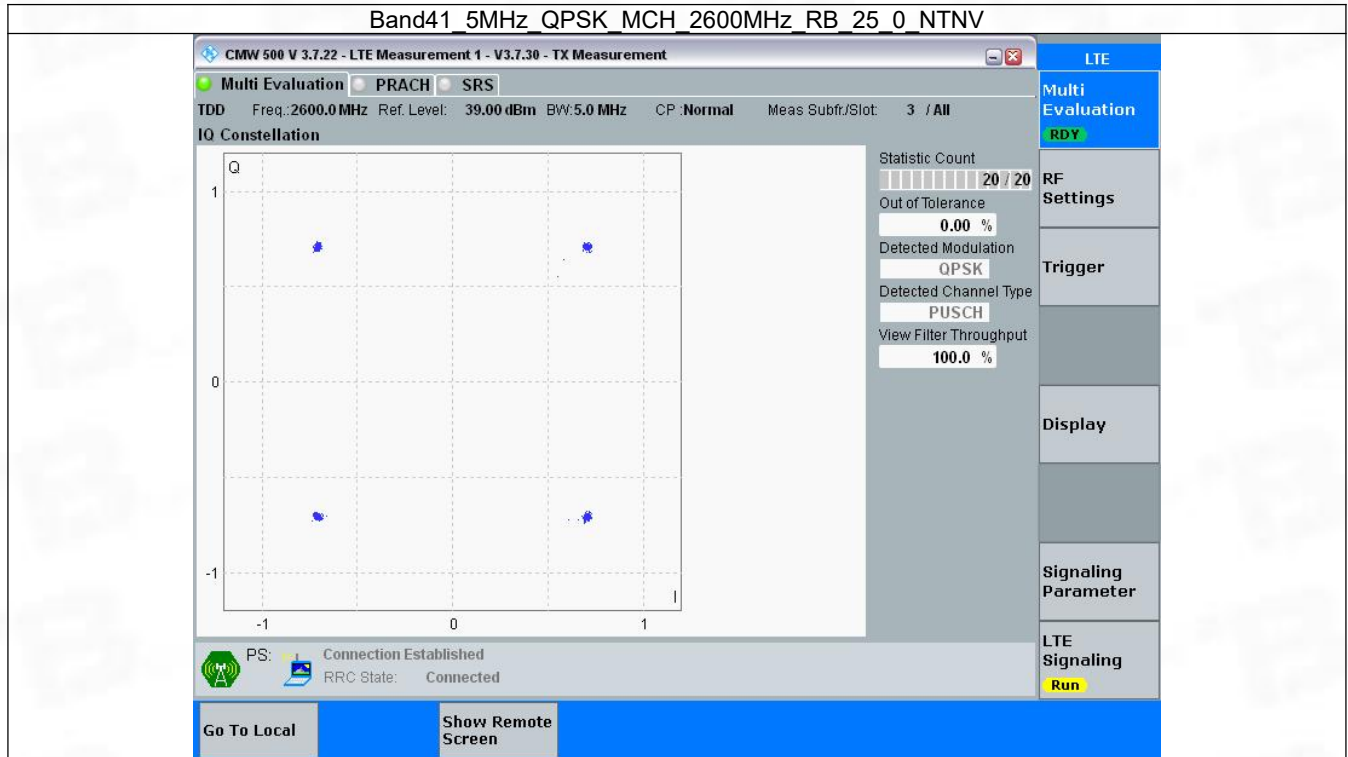
#### 3.1 B41\_5MHz

##### 3.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	

QPSK	2600	25	0	Refer To Test Graph	Pass
16QAM	2600	25	0	Refer To Test Graph	Pass

### 3.1.2 Test Graph

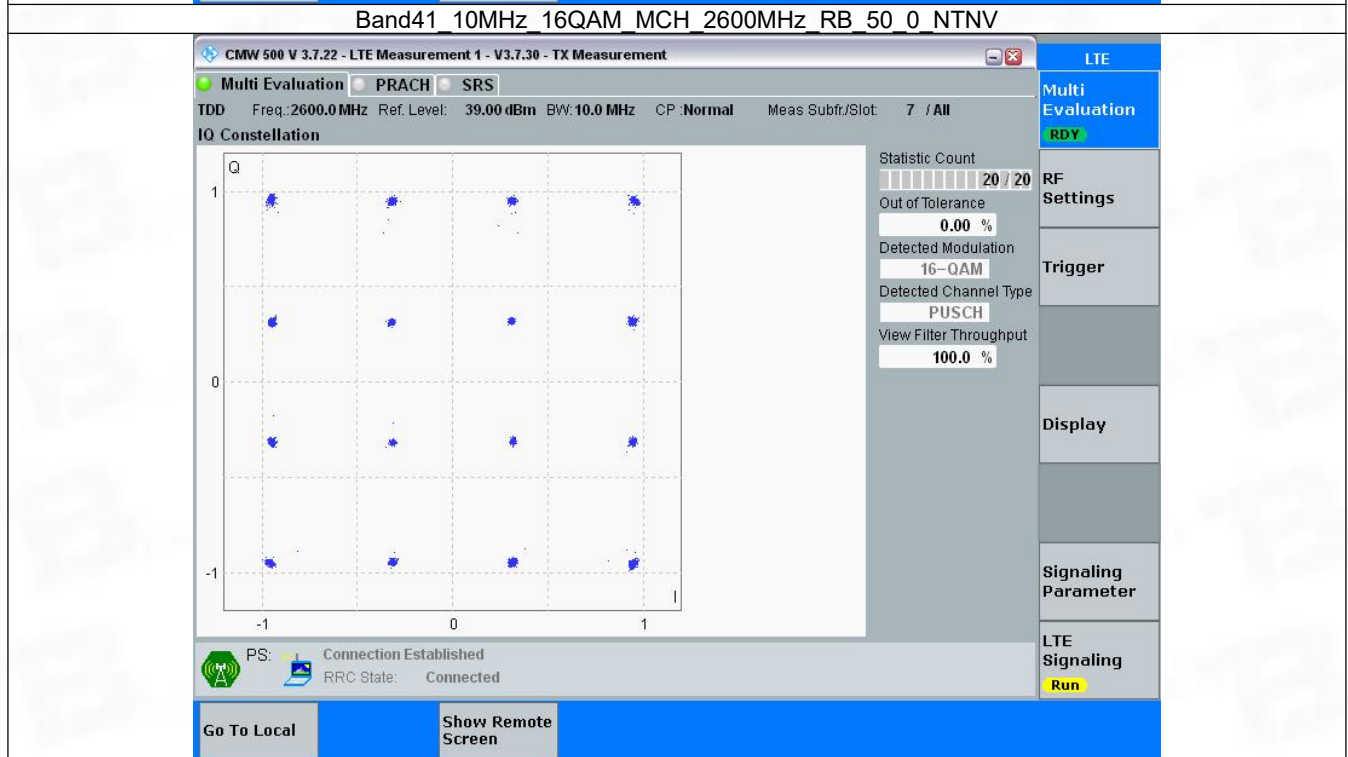
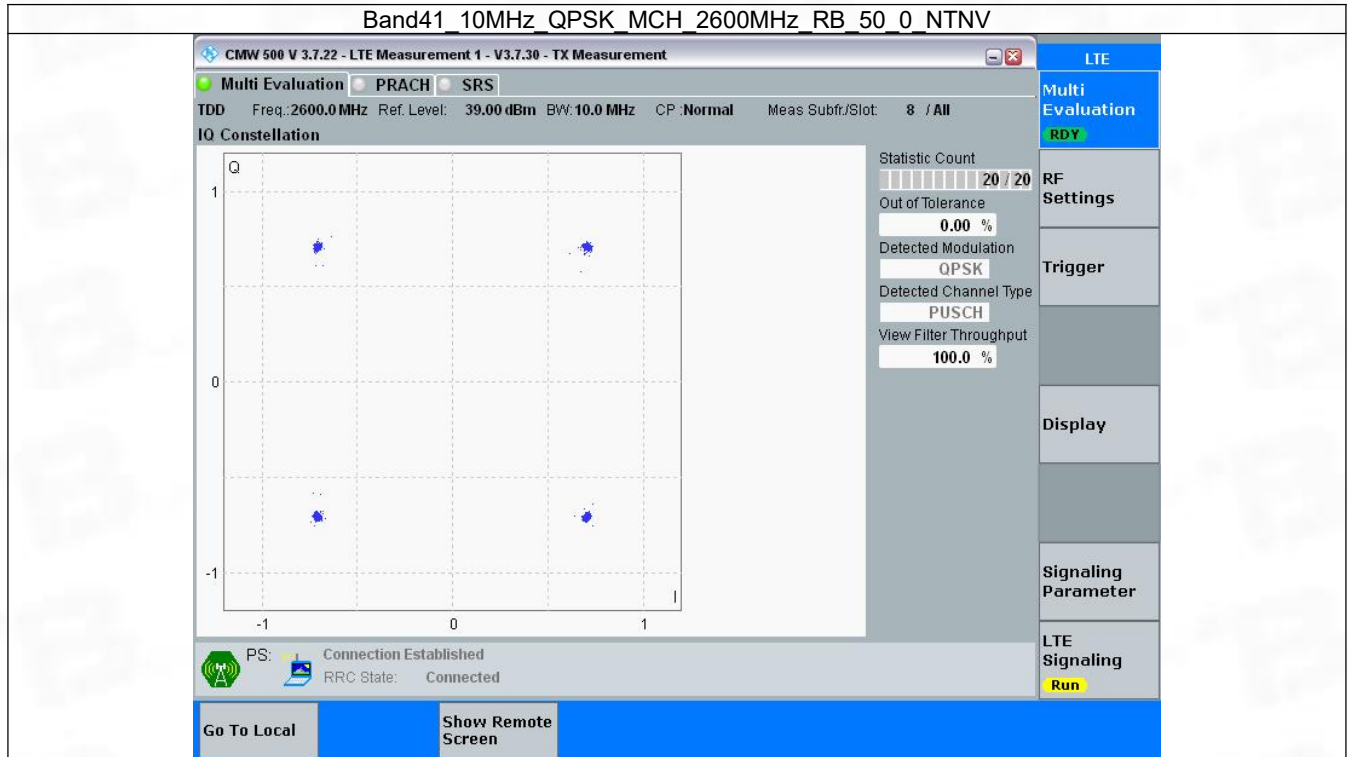


## 3.2 B41\_10MHz

### 3.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2600	50	0	Refer To Test Graph	Pass	
16QAM	2600	50	0	Refer To Test Graph	Pass	

### 3.2.2 Test Graph

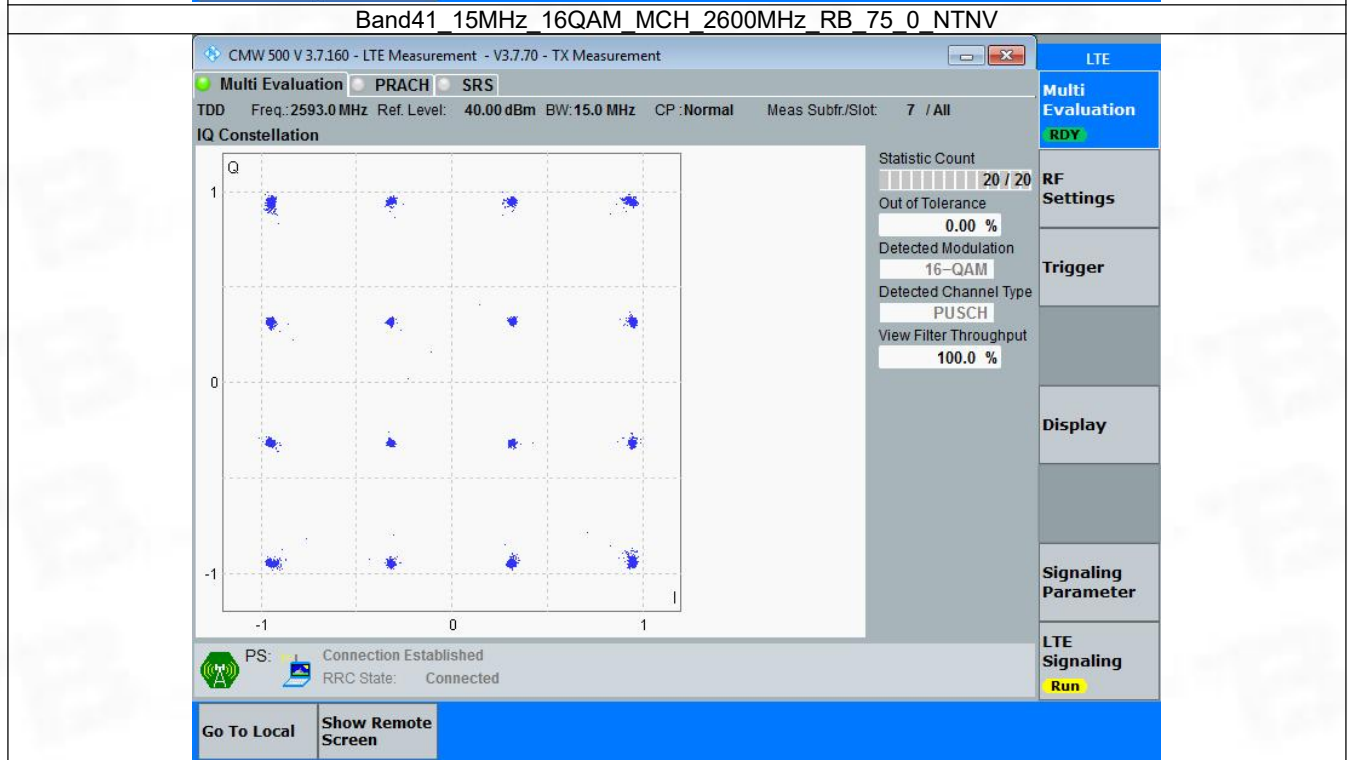
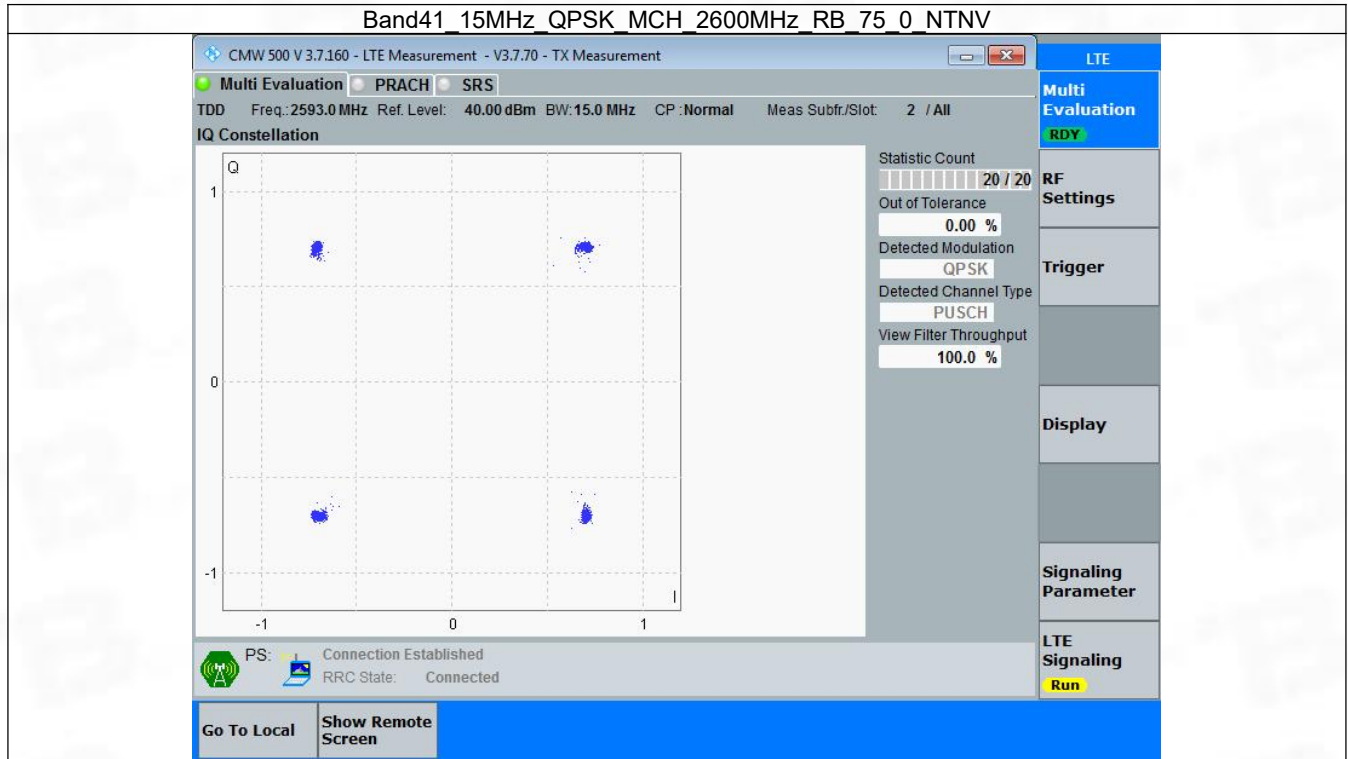


### 3.3 B41\_15MHz

#### 3.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2600	75	0	Refer To Test Graph	Pass	
16QAM	2600	75	0	Refer To Test Graph	Pass	

### 3.3.2 Test Graph



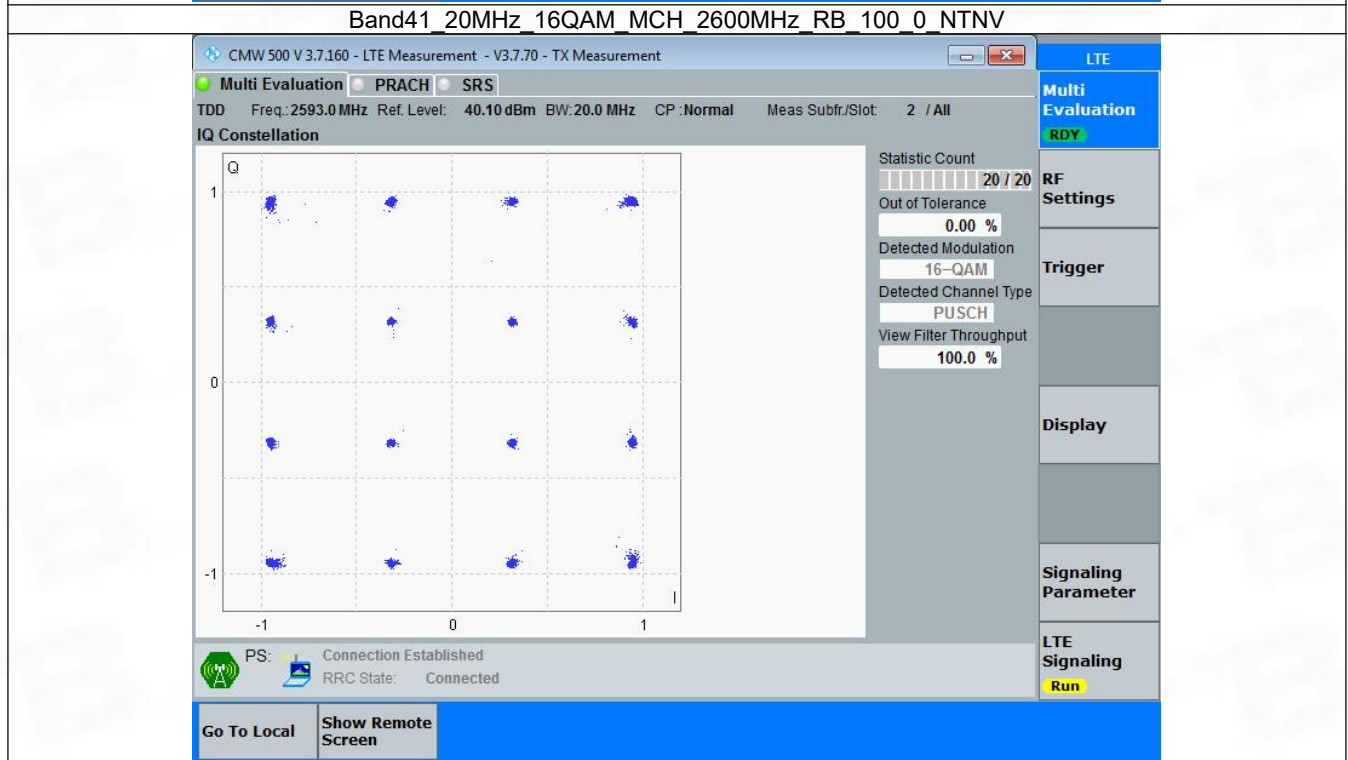
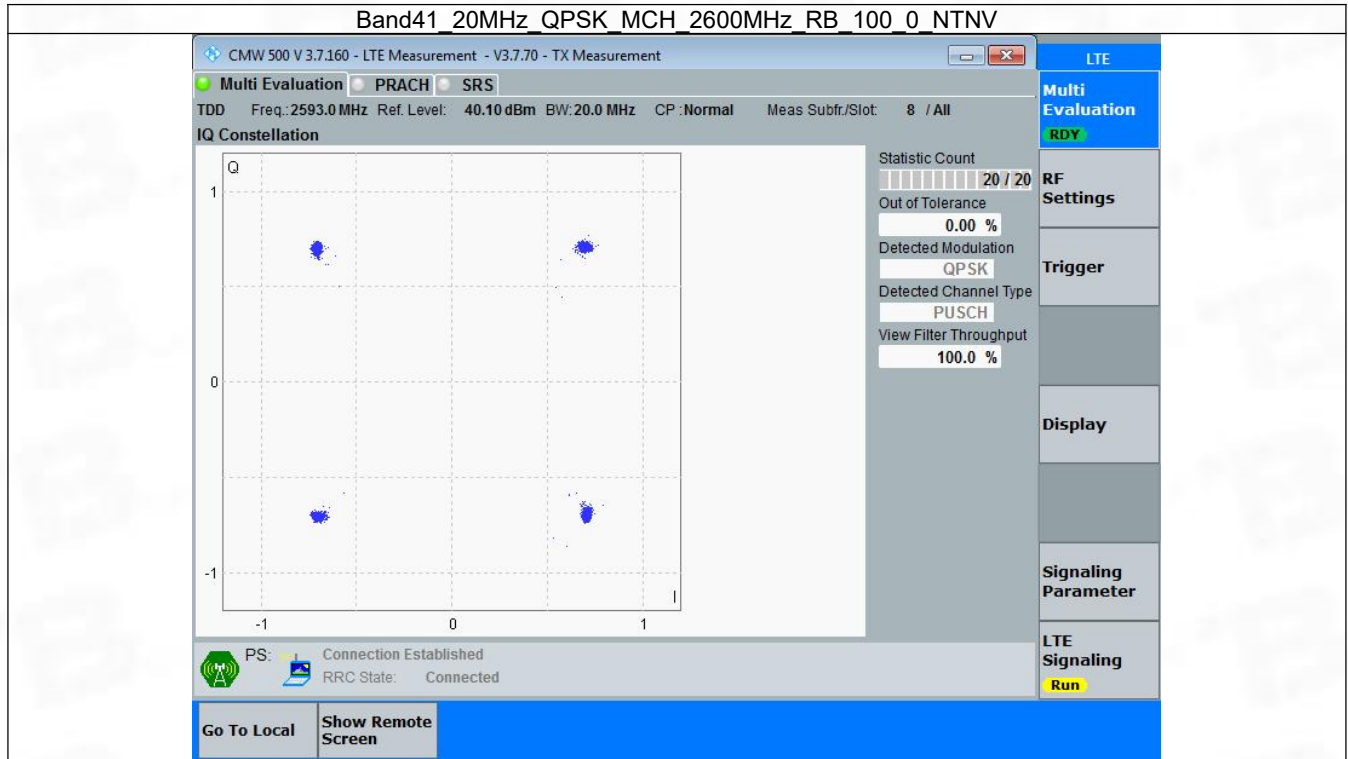
### 3.4 B41\_20MHz

#### 3.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2600	100	0	Refer To Test Graph		Pass
16QAM	2600	100	0	Refer To Test Graph		Pass



### 3.4.2 Test Graph



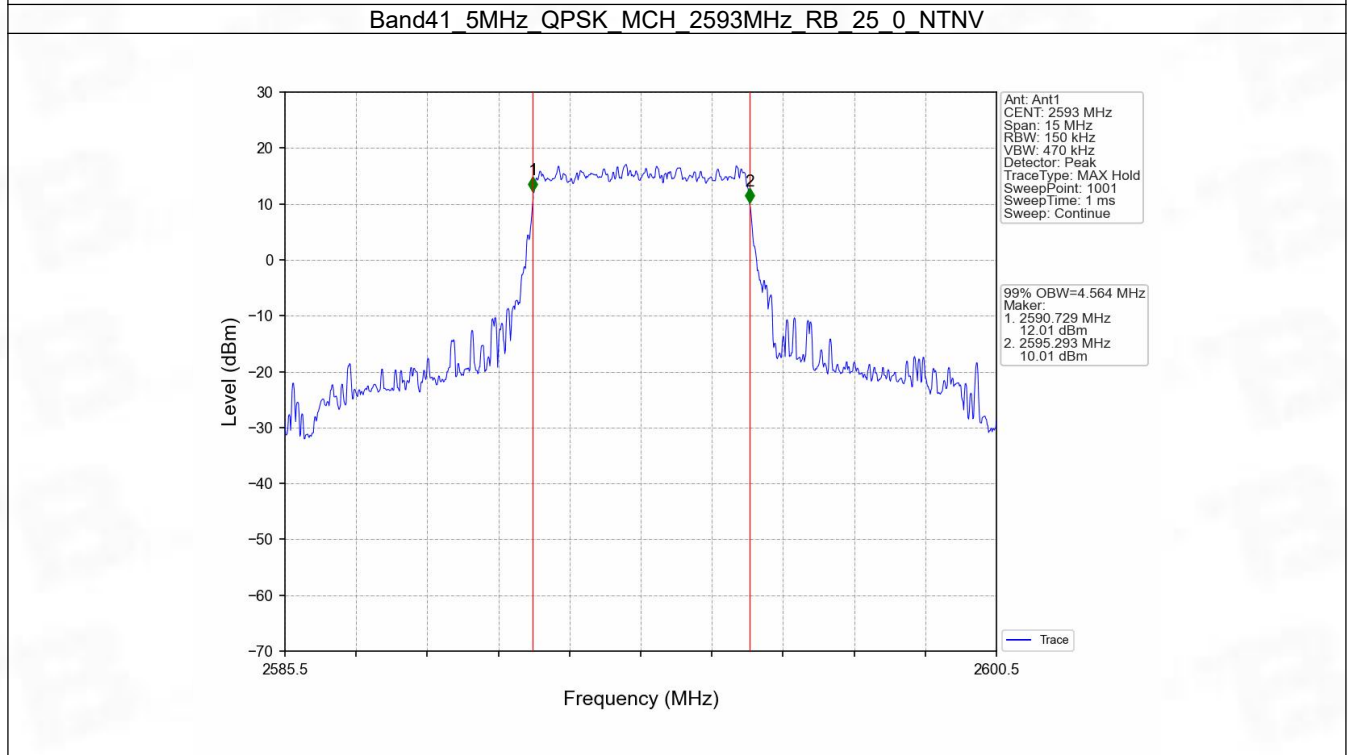
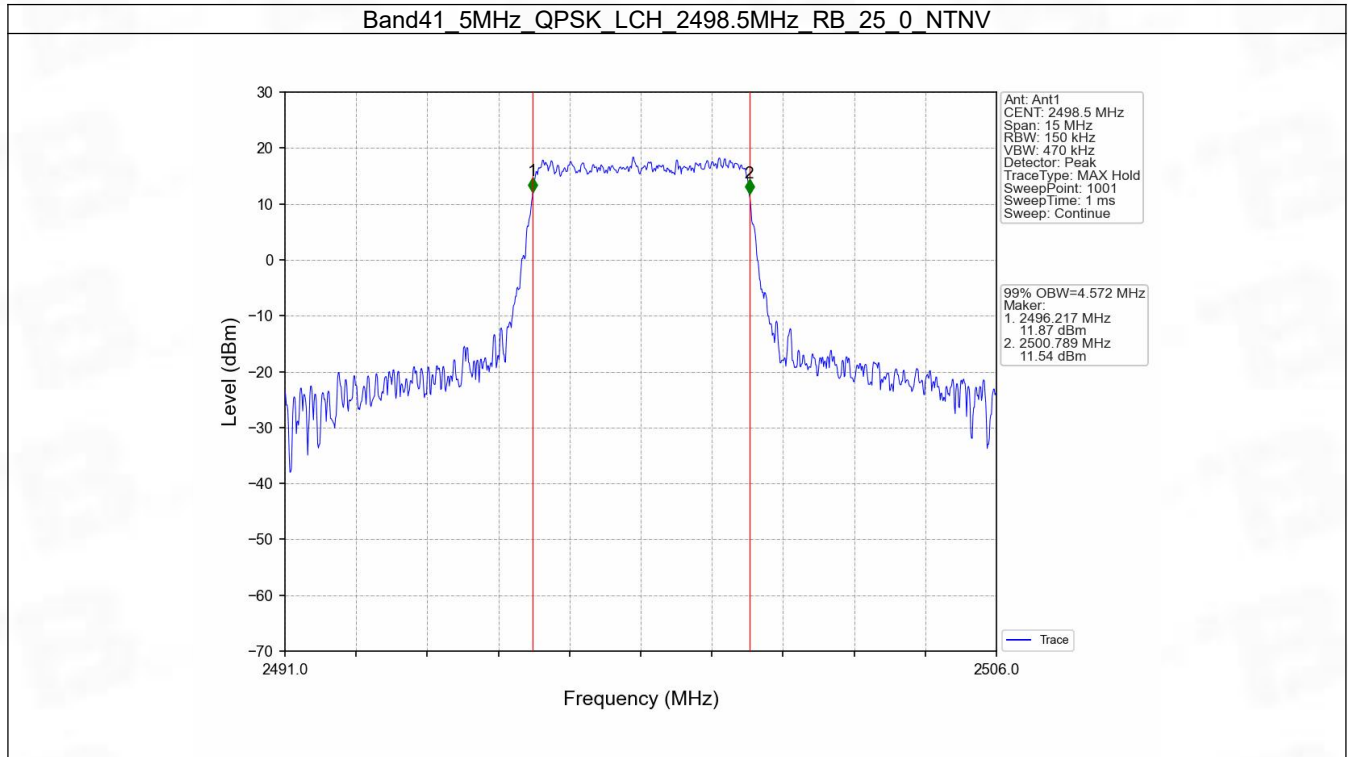
## 4. 99% & 26dB Bandwidth

### 4.1 Band41\_OBW

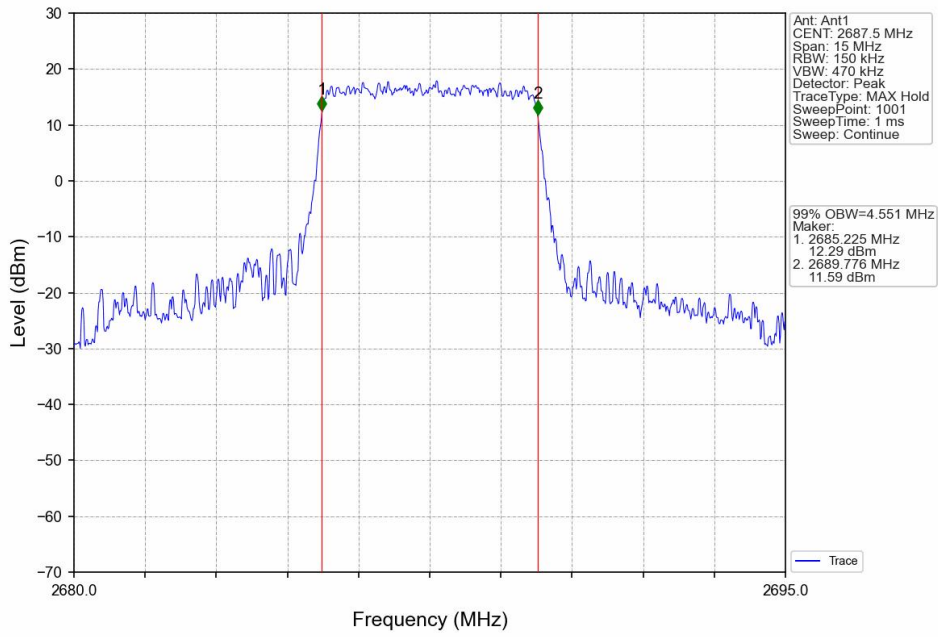
#### 4.1.1 Test Result

Band: 41 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2498.5	25	0	4.572	Pass
		2593	25	0	4.564	Pass
		2687.5	25	0	4.551	Pass
	16QAM	2498.5	25	0	4.566	Pass
		2593	25	0	4.572	Pass
		2687.5	25	0	4.592	Pass
10	QPSK	2501	50	0	9.113	Pass
		2593	50	0	9.095	Pass
		2685	50	0	9.094	Pass
	16QAM	2501	50	0	9.082	Pass
		2593	50	0	9.103	Pass
		2685	50	0	9.074	Pass
15	QPSK	2503.5	75	0	13.589	Pass
		2593	75	0	13.592	Pass
		2682.5	75	0	13.637	Pass
	16QAM	2503.5	75	0	13.630	Pass
		2593	75	0	13.645	Pass
		2682.5	75	0	13.604	Pass
20	QPSK	2506	100	0	18.138	Pass
		2593	100	0	18.115	Pass
		2680	100	0	18.142	Pass
	16QAM	2506	100	0	18.112	Pass
		2593	100	0	18.124	Pass
		2680	100	0	18.101	Pass

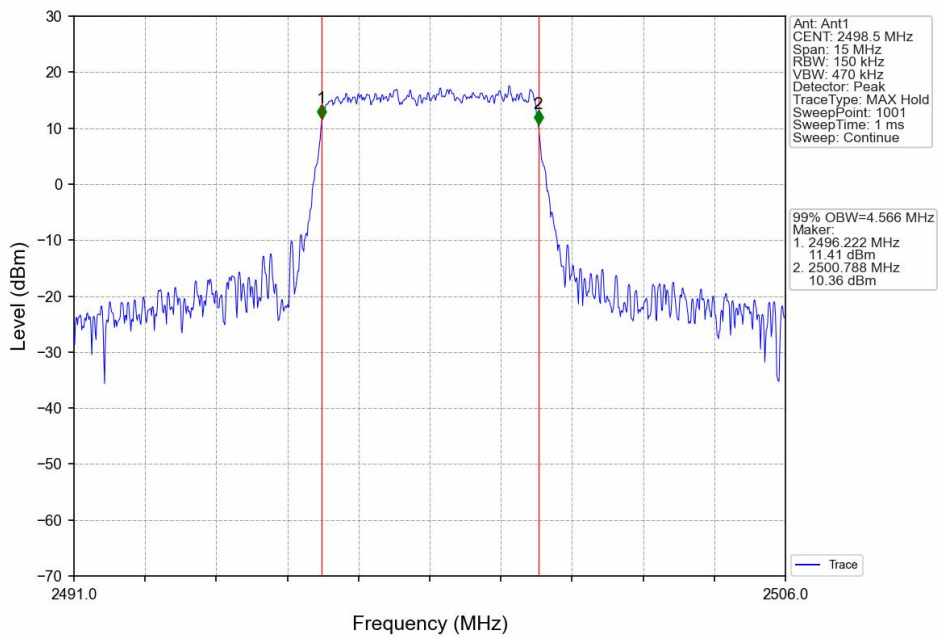
### 4.1.2 Test Graph



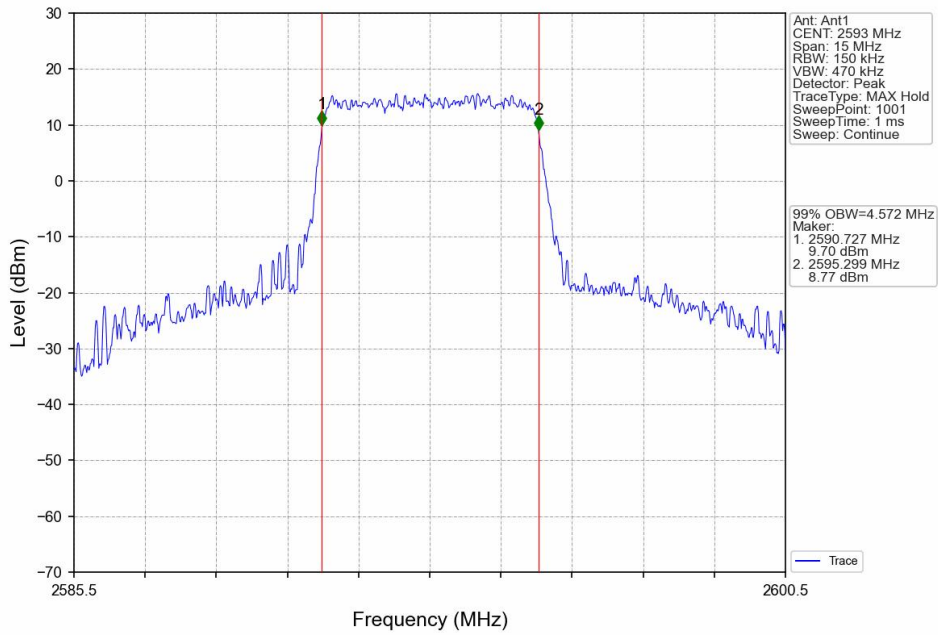
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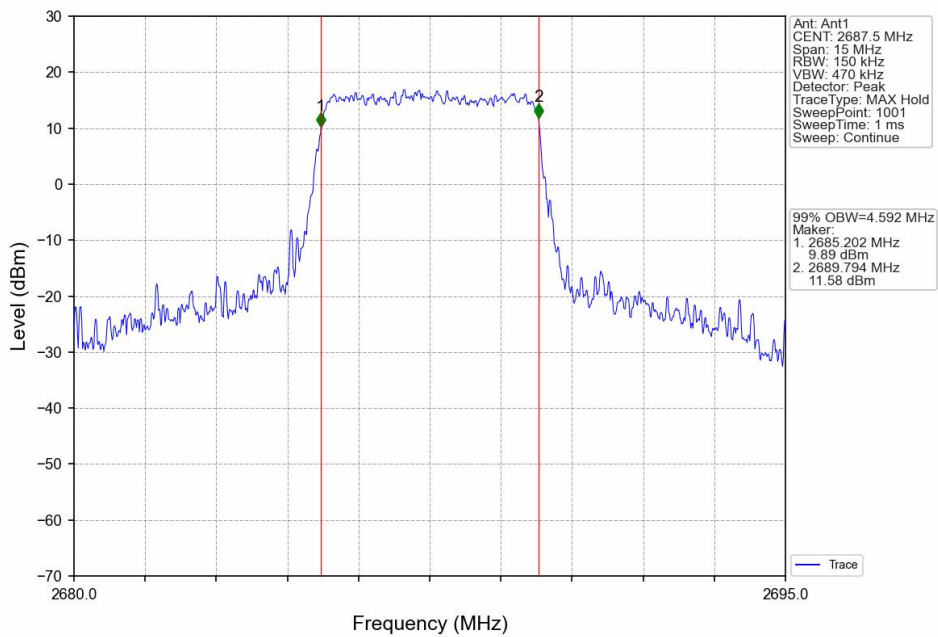
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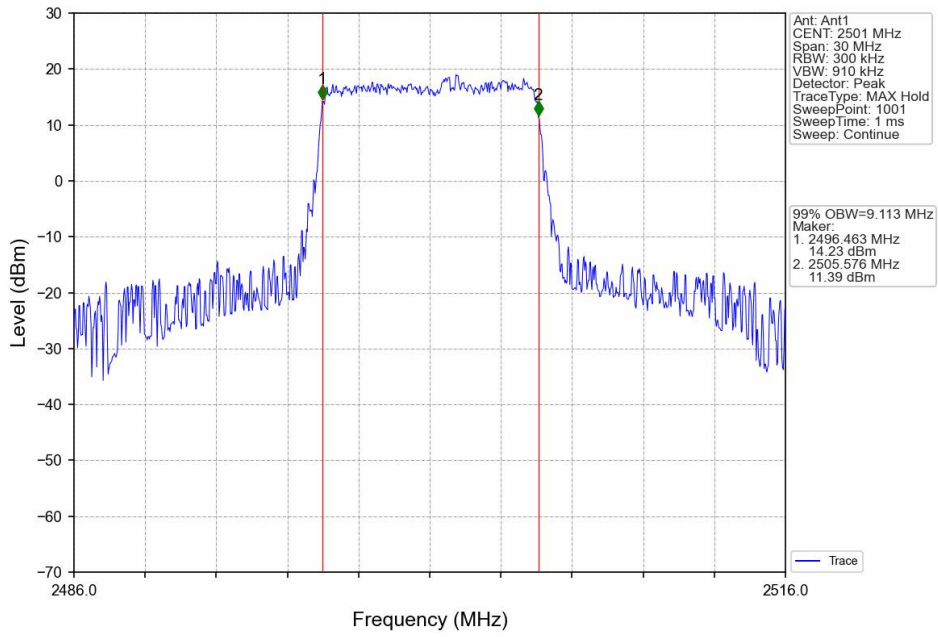
Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



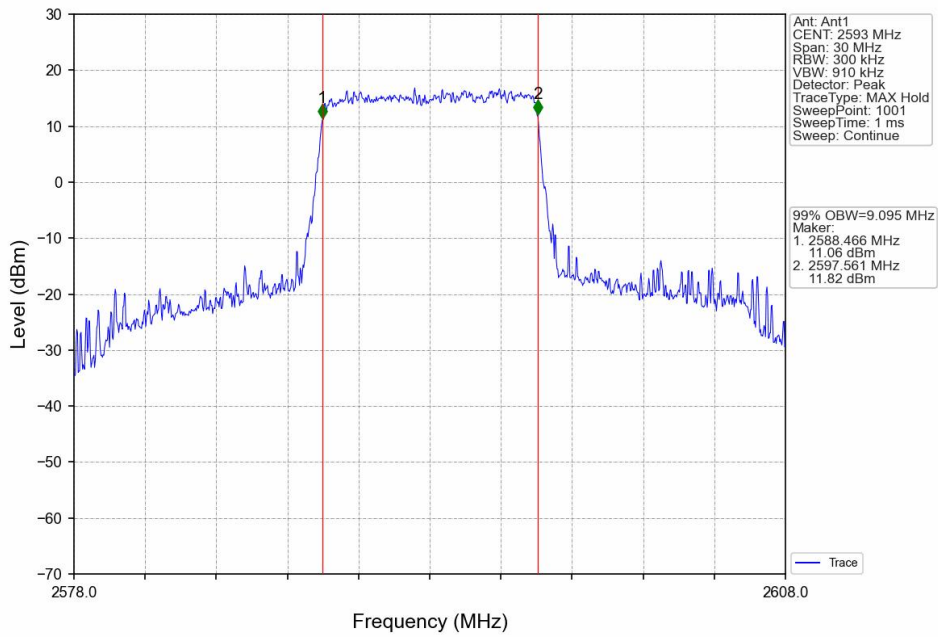
Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



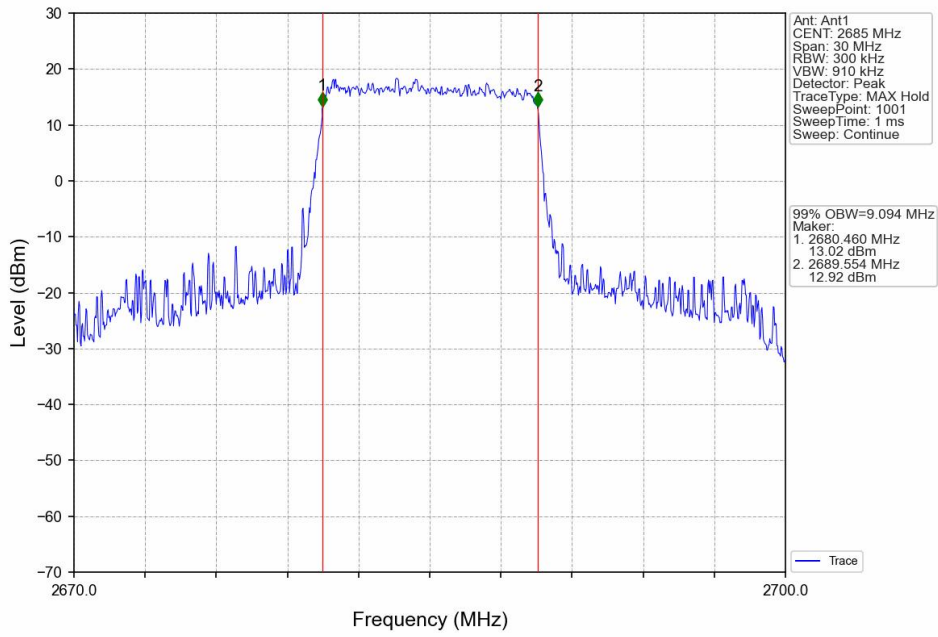
Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



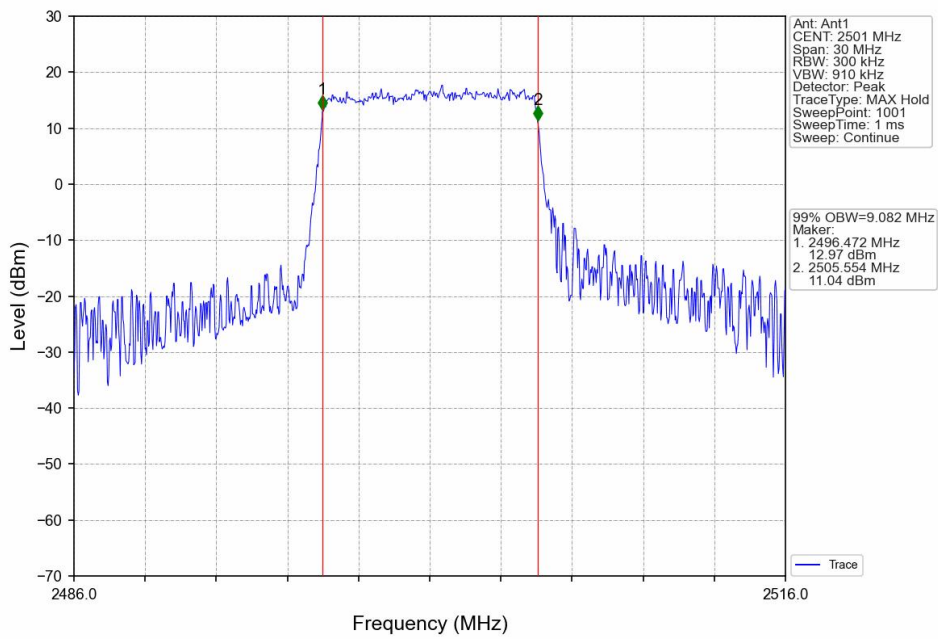
Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV

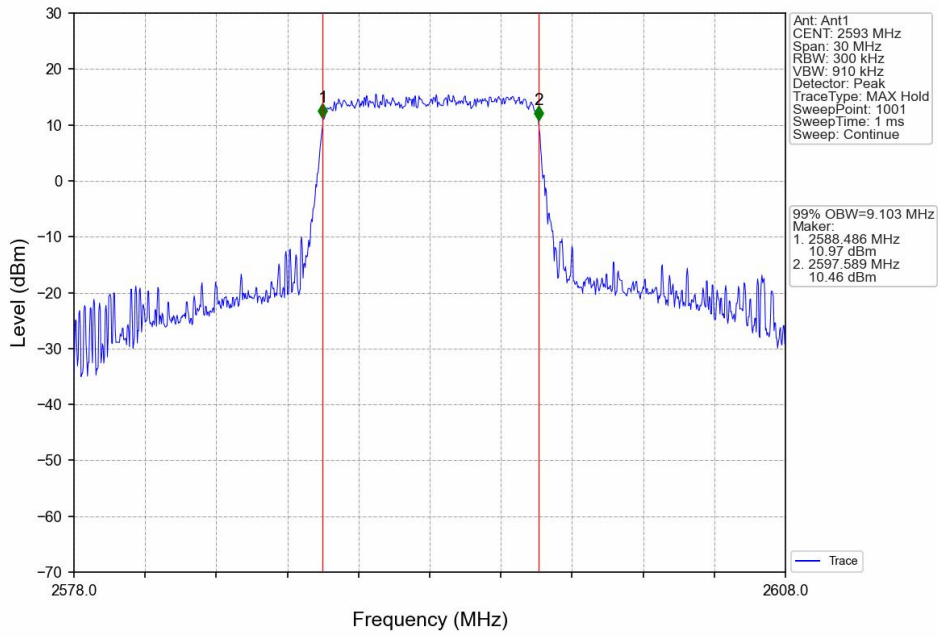


Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_50\_0\_NTNV

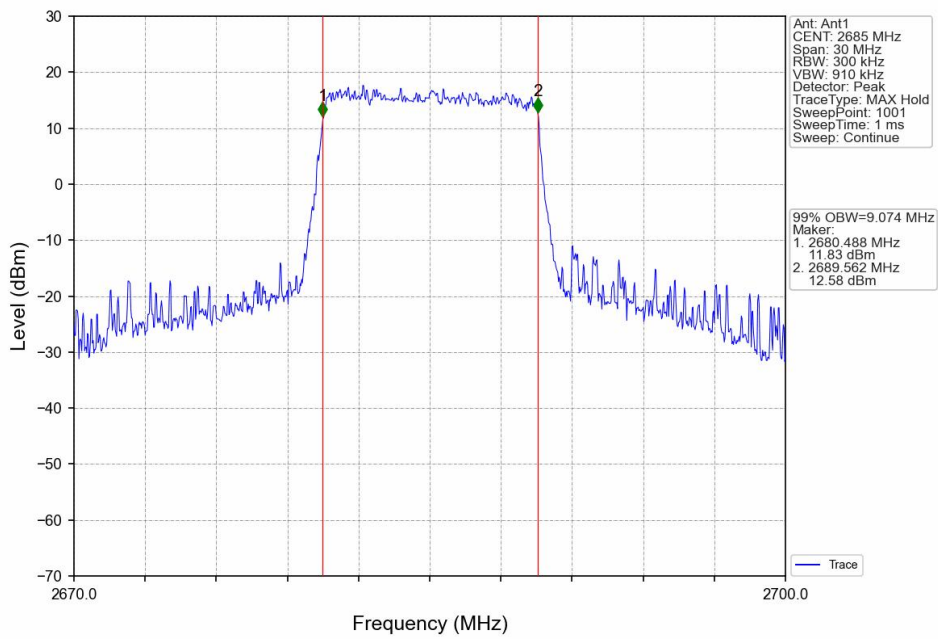




Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTNV

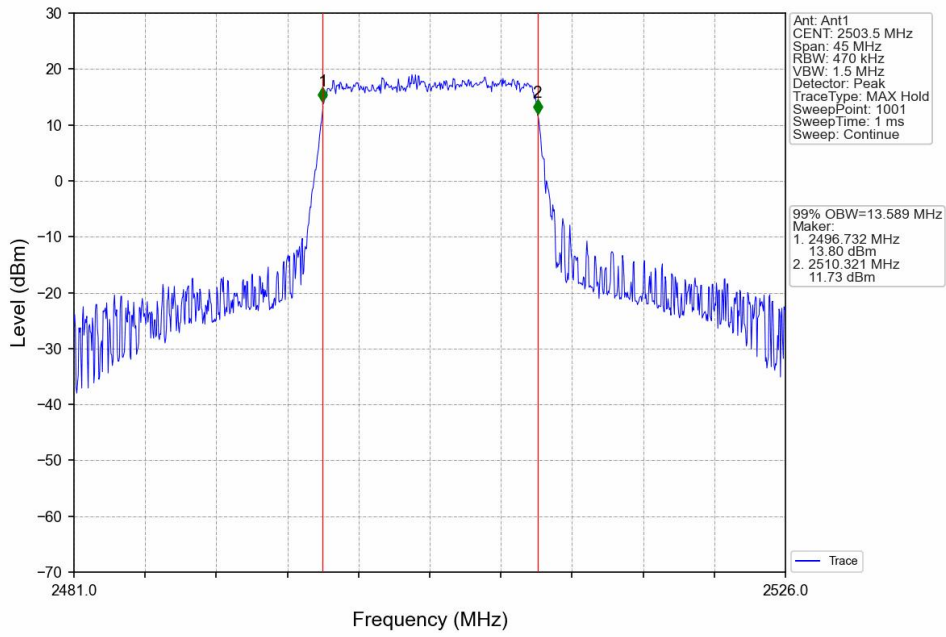


Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTNV

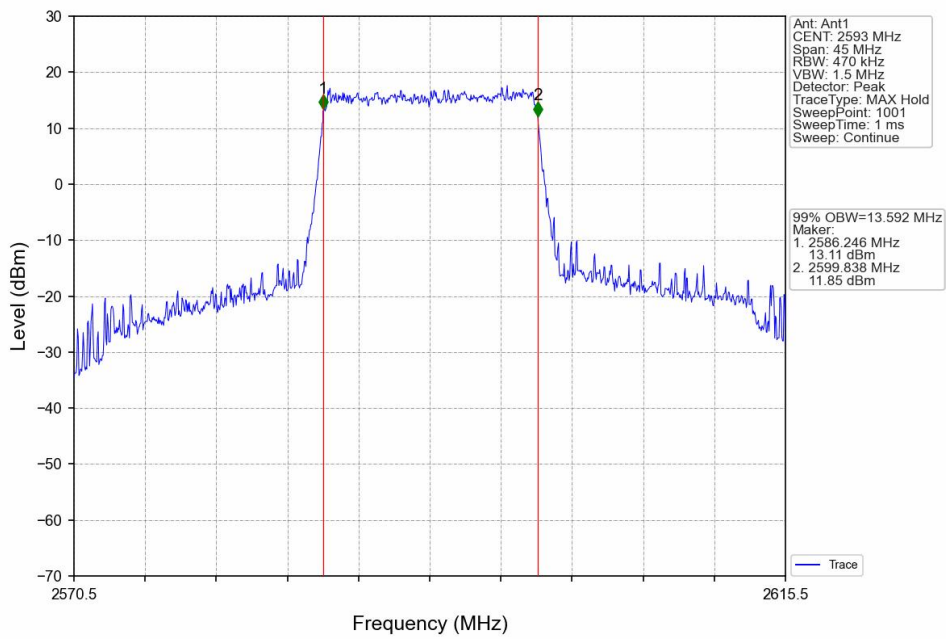




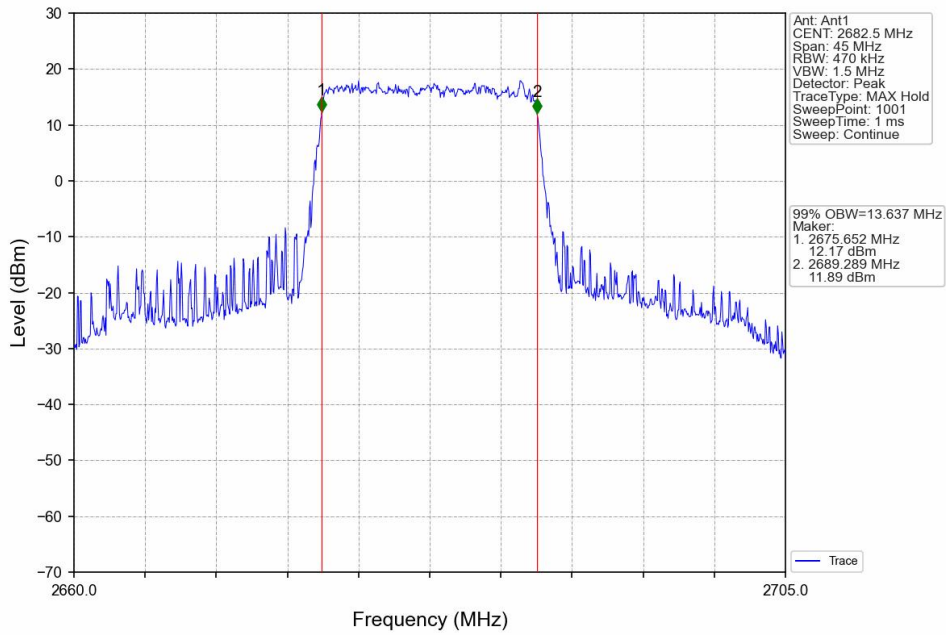
Band41\_15MHz\_QPSK\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



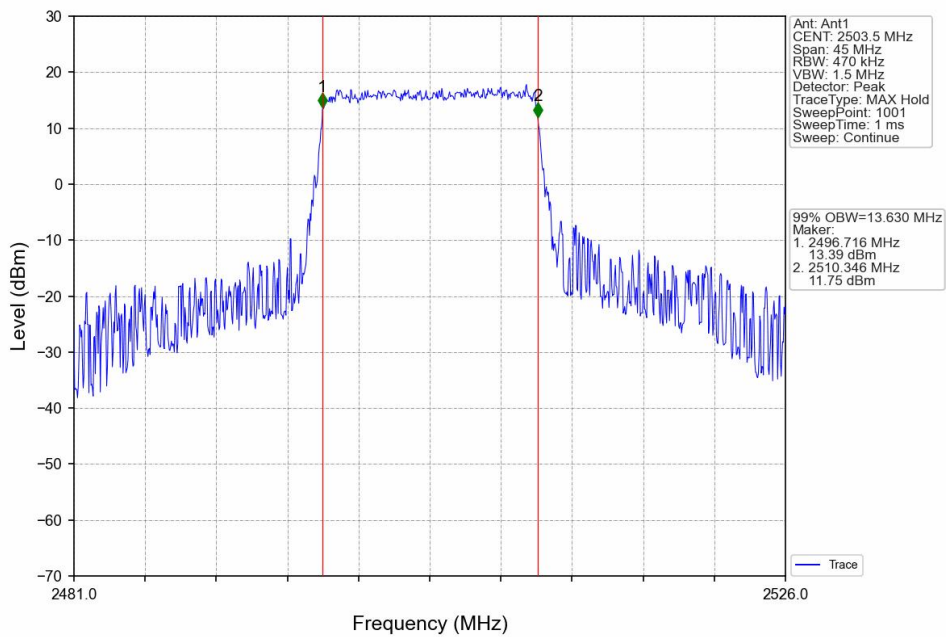
Band41\_15MHz\_QPSK\_MCH\_2593MHz\_RB\_75\_0\_NTNV



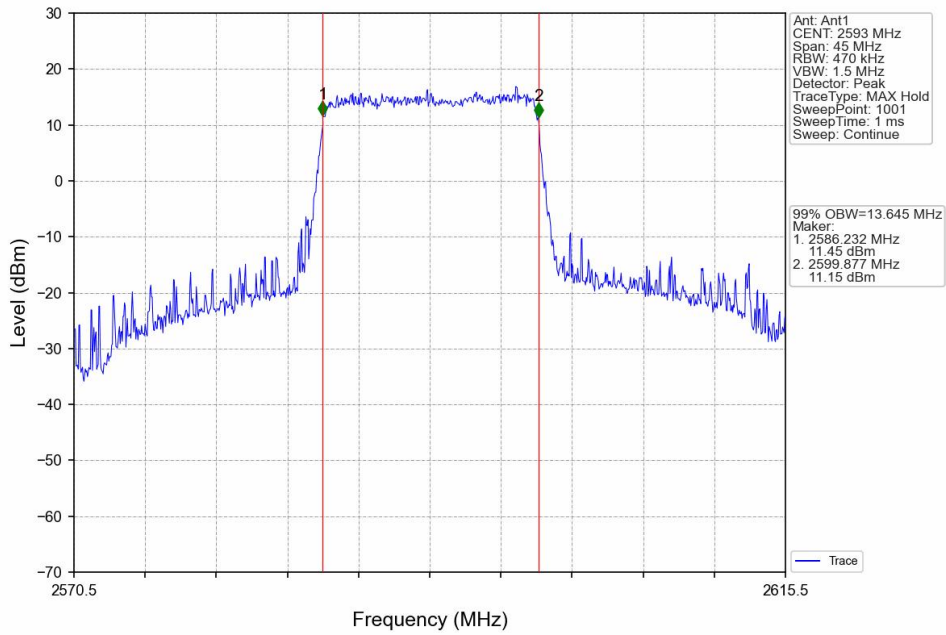
Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



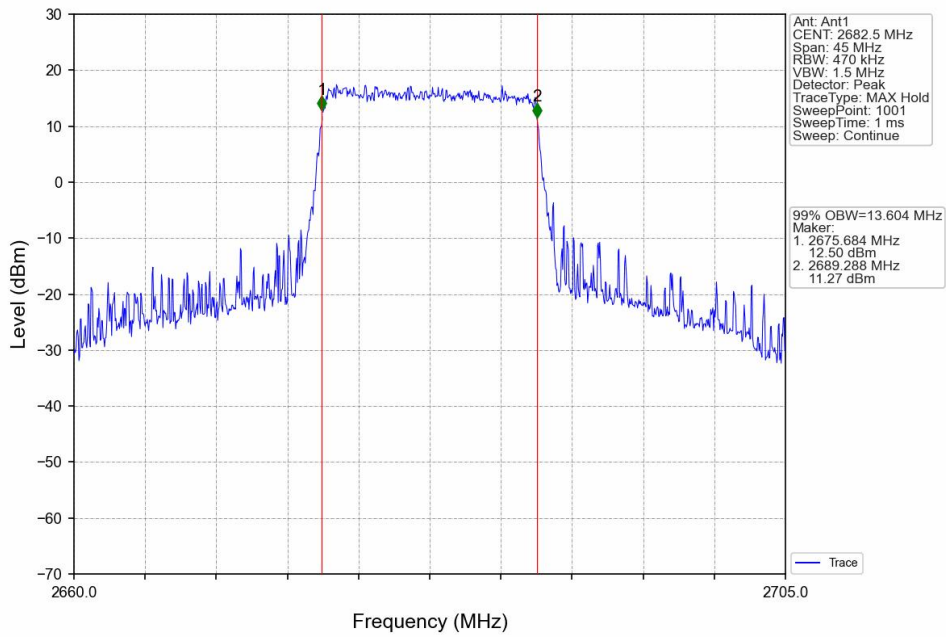
Band41\_15MHz\_16QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



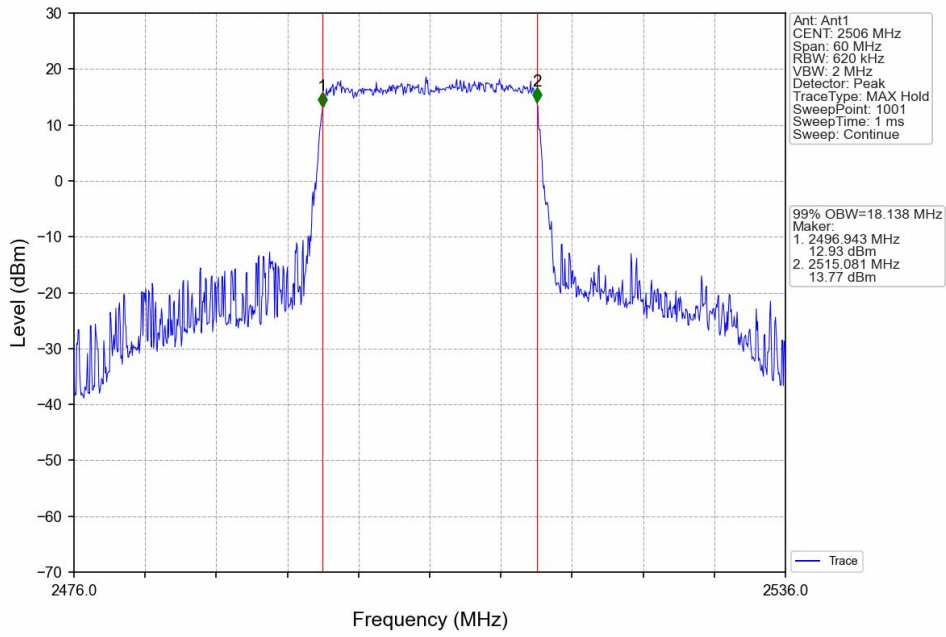
Band41 15MHz 16QAM MCH 2593MHz RB 75 0 NTV



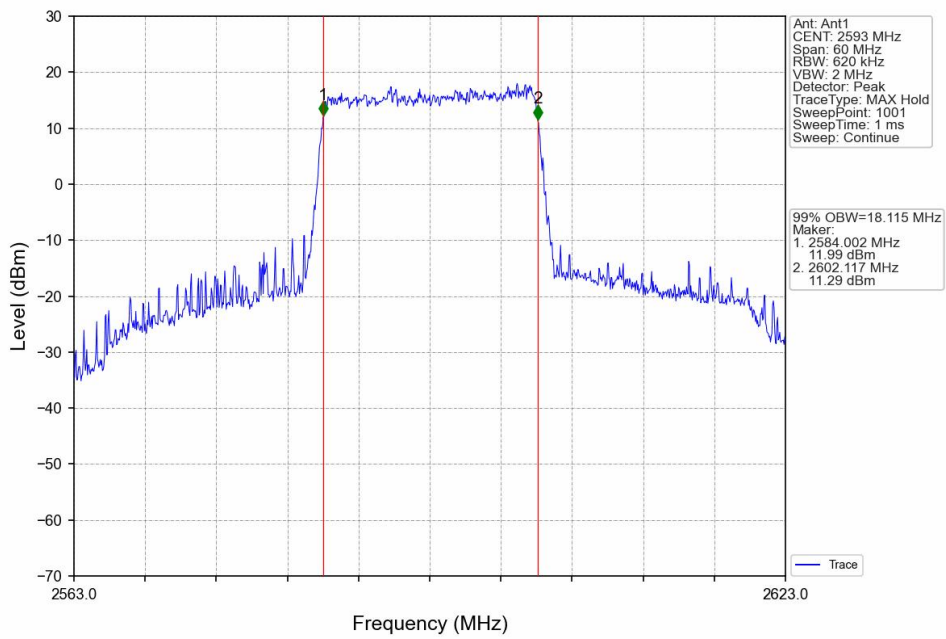
Band41 15MHz 16QAM HCH 2682.5MHz RB 75 0 NTV



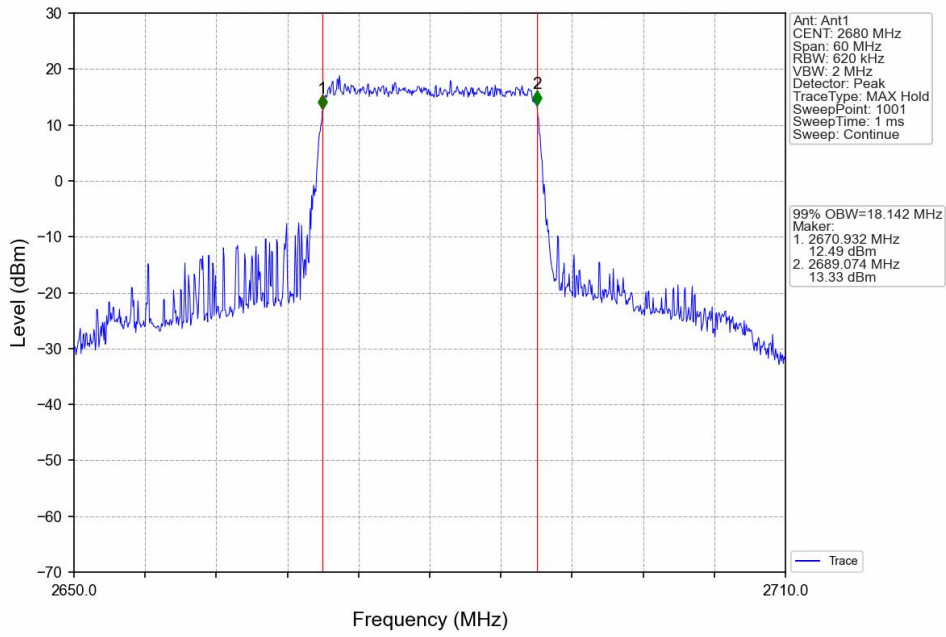
Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV



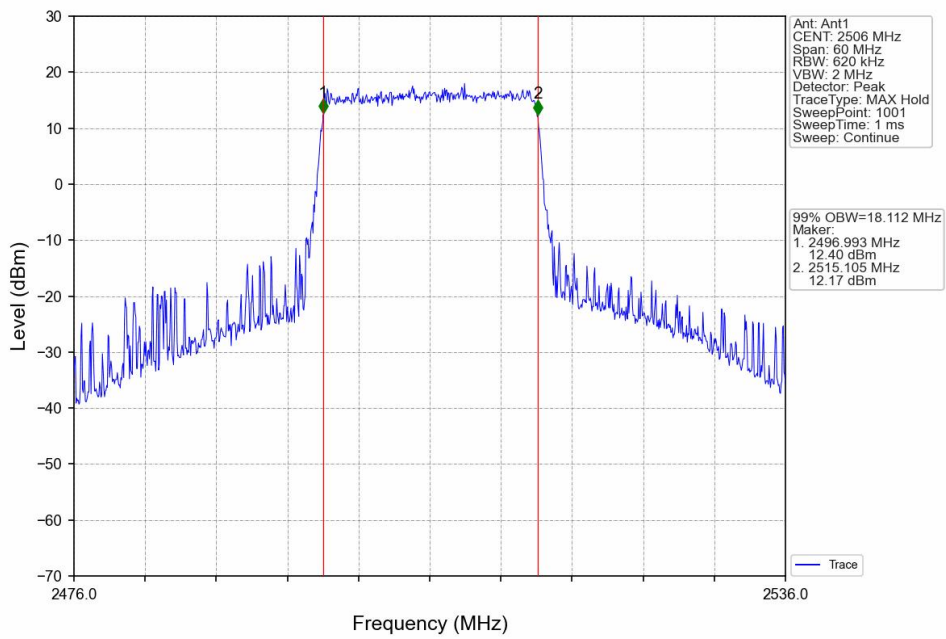
Band41\_20MHz\_QPSK\_MCH\_2593MHz\_RB\_100\_0\_NTNV



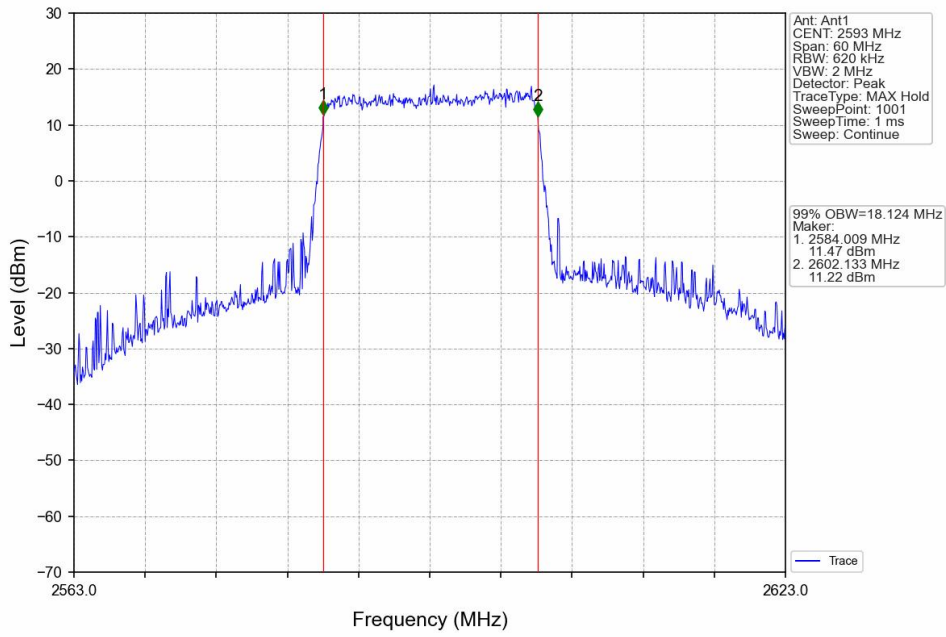
Band41 20MHz QPSK HCH 2680MHz RB 100\_0\_NTNV



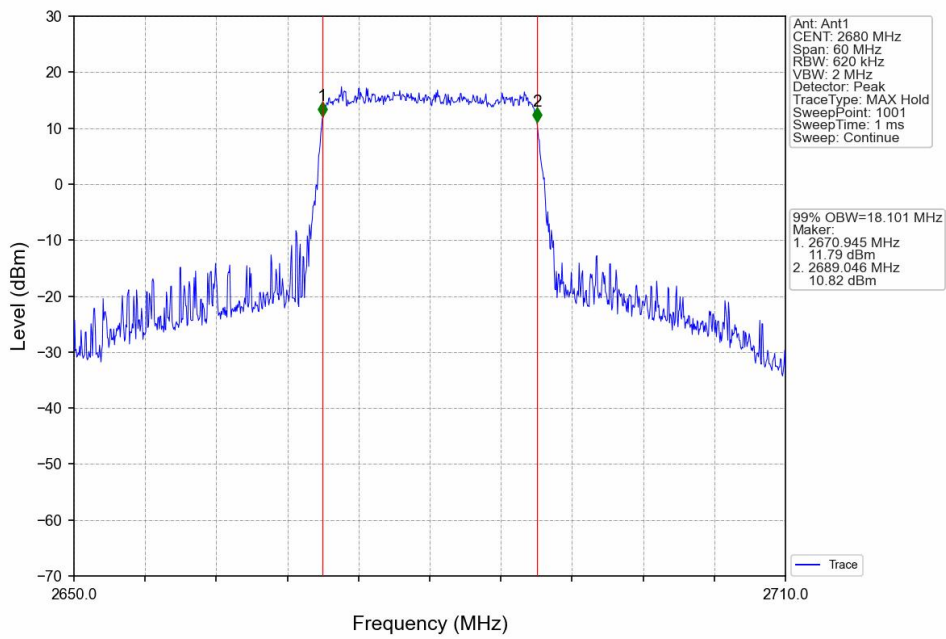
Band41 20MHz 16QAM LCH 2506MHz RB 100\_0\_NTNV



Band41\_20MHz\_16QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



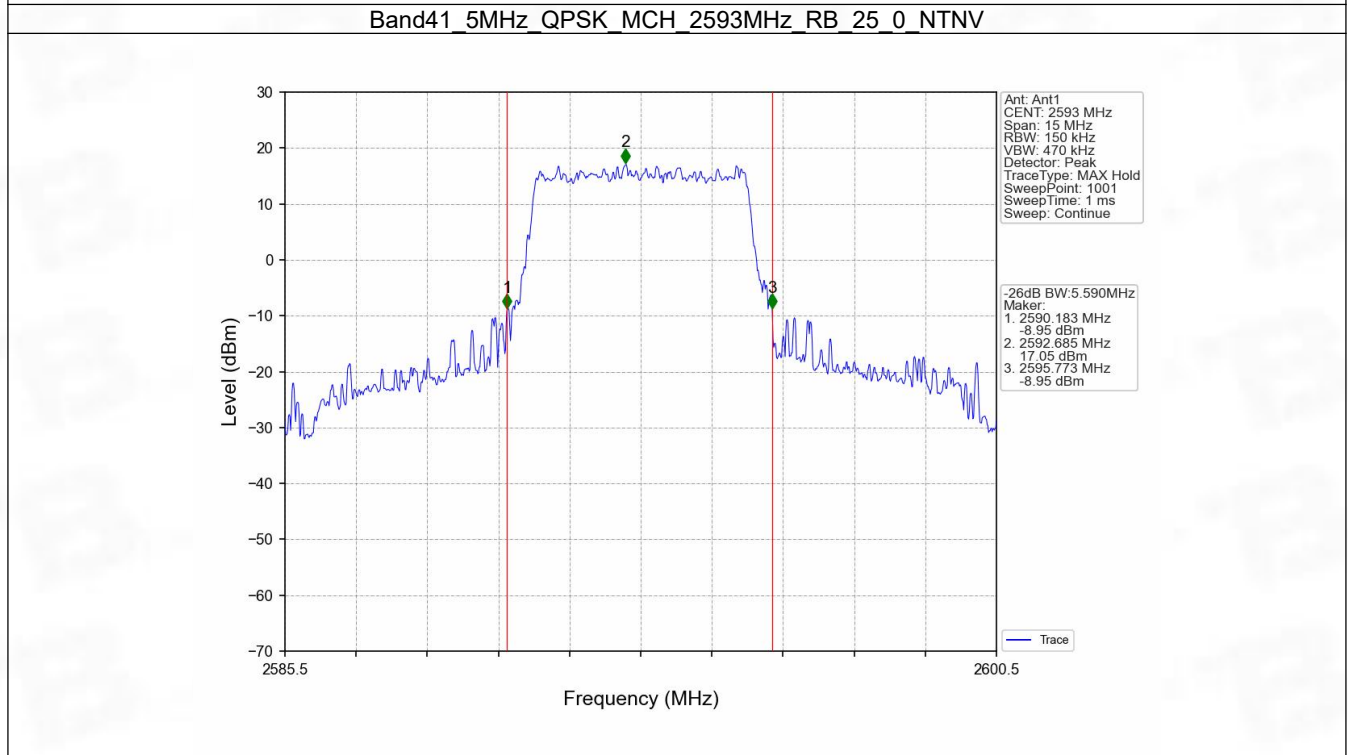
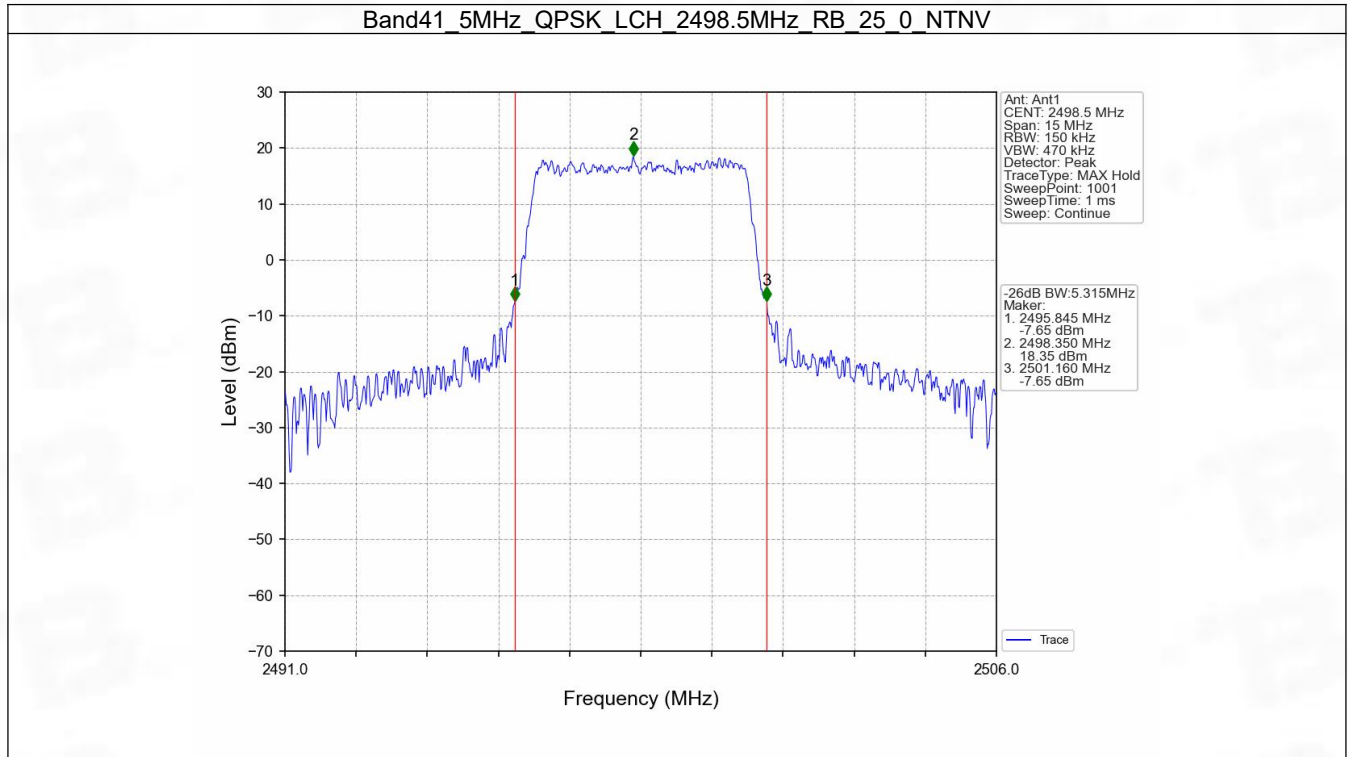
## 4.2 Band41\_XDB

### 4.2.1 Test Result

Band: 41 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2498.5	25	0	5.315	Pass
		2593	25	0	5.590	Pass
		2687.5	25	0	5.200	Pass
	16QAM	2498.5	25	0	5.233	Pass
		2593	25	0	5.328	Pass
		2687.5	25	0	5.559	Pass
10	QPSK	2501	50	0	10.346	Pass
		2593	50	0	10.384	Pass
		2685	50	0	10.526	Pass
	16QAM	2501	50	0	11.205	Pass
		2593	50	0	11.002	Pass
		2685	50	0	10.198	Pass
15	QPSK	2503.5	75	0	16.063	Pass
		2593	75	0	15.511	Pass
		2682.5	75	0	15.295	Pass
	16QAM	2503.5	75	0	17.023	Pass
		2593	75	0	15.788	Pass
		2682.5	75	0	16.659	Pass
20	QPSK	2506	100	0	20.220	Pass
		2593	100	0	19.966	Pass
		2680	100	0	20.022	Pass
	16QAM	2506	100	0	20.043	Pass
		2593	100	0	20.943	Pass
		2680	100	0	21.563	Pass

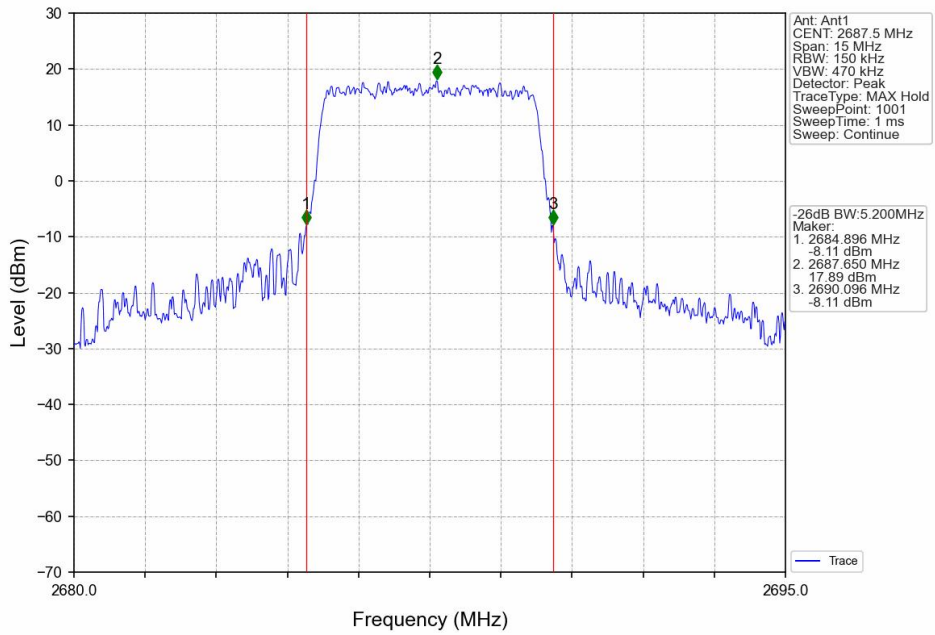


## 4.2.2 Test Graph

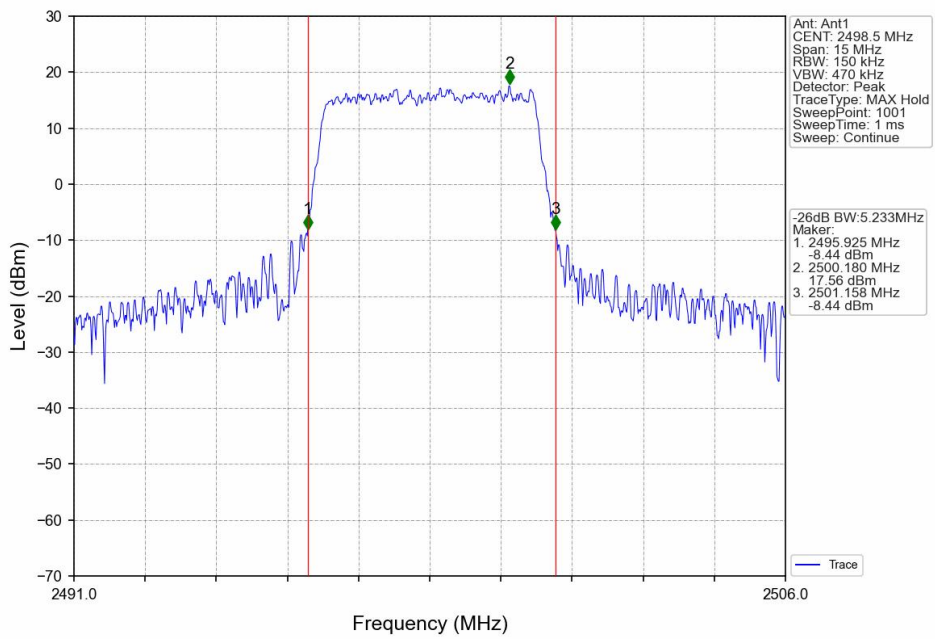




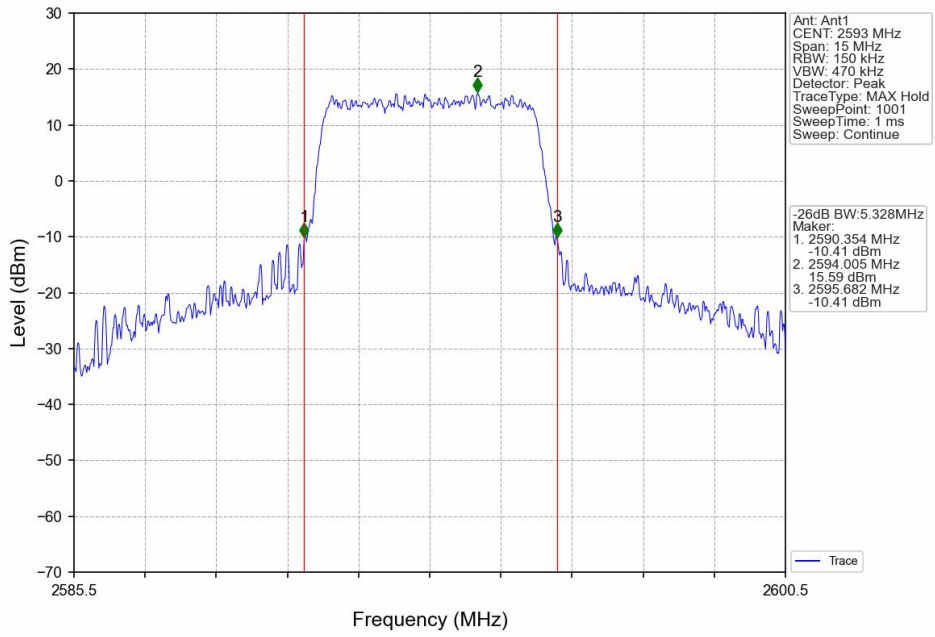
Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



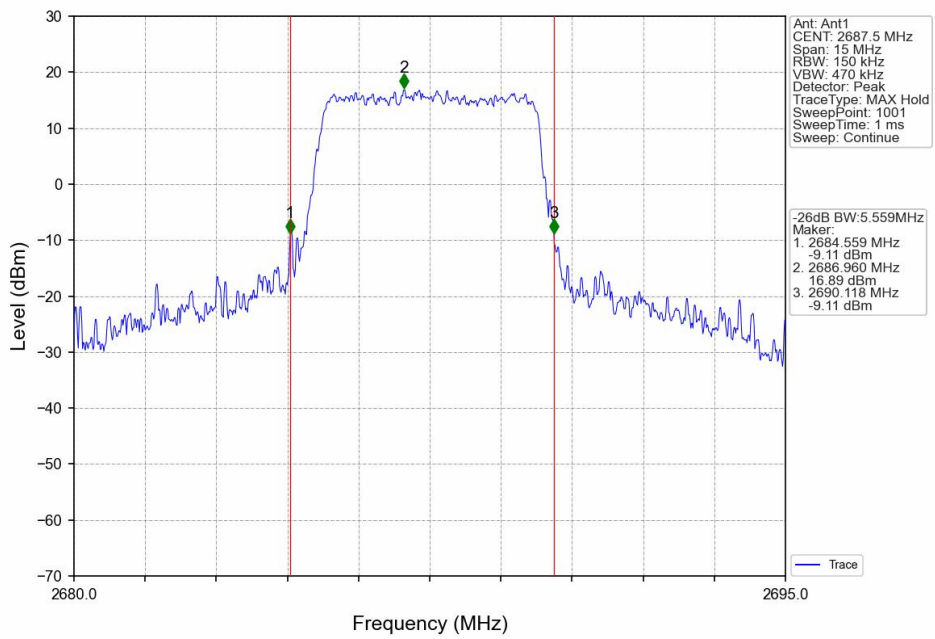
Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



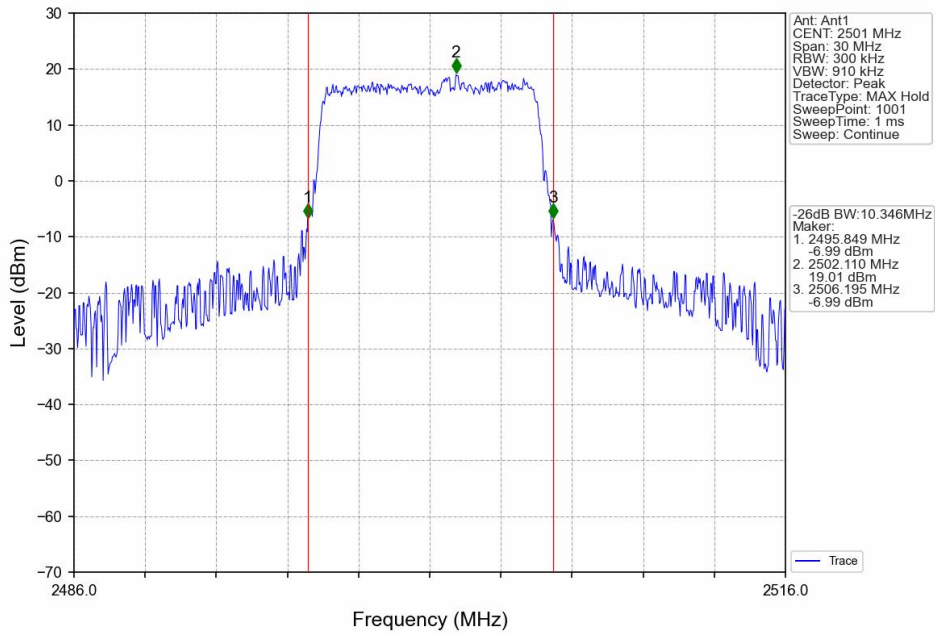
Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



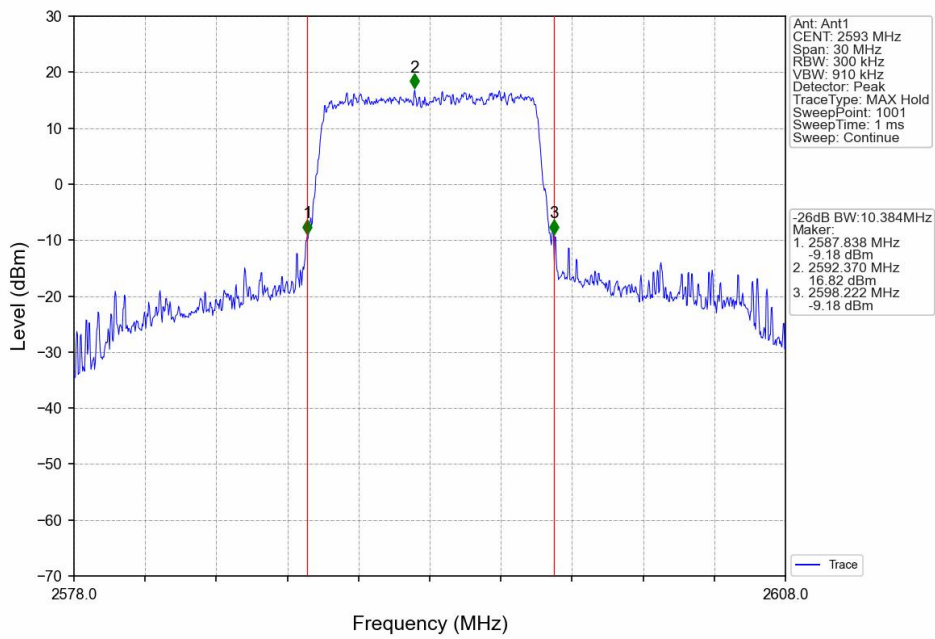
Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



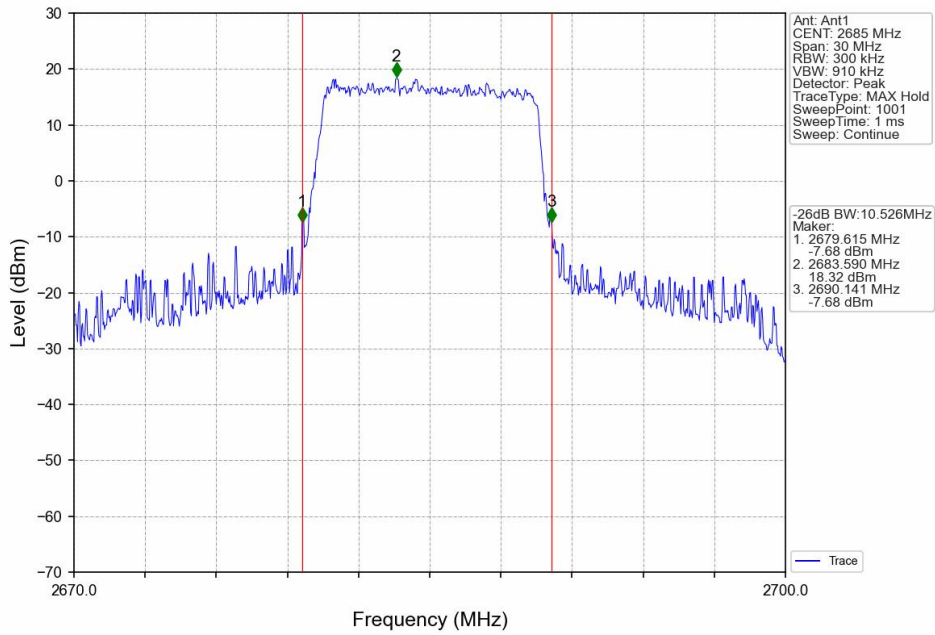
Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



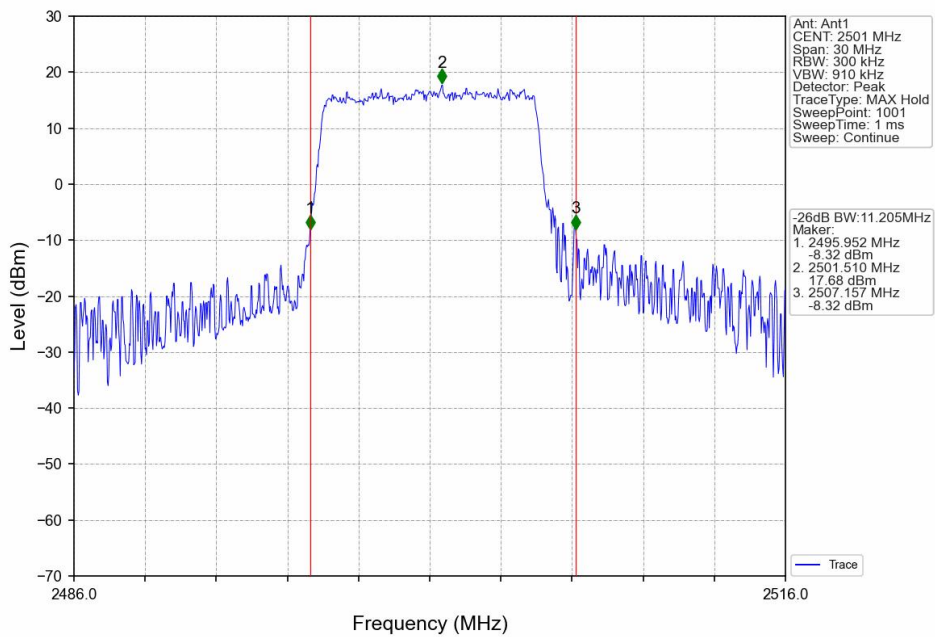
Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_50\_0\_NTNV



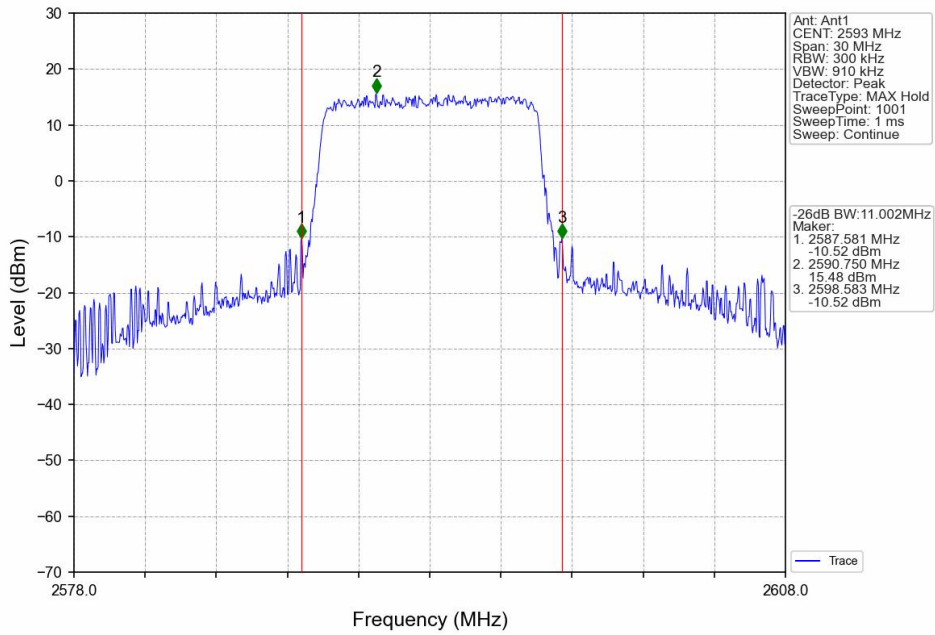
Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV



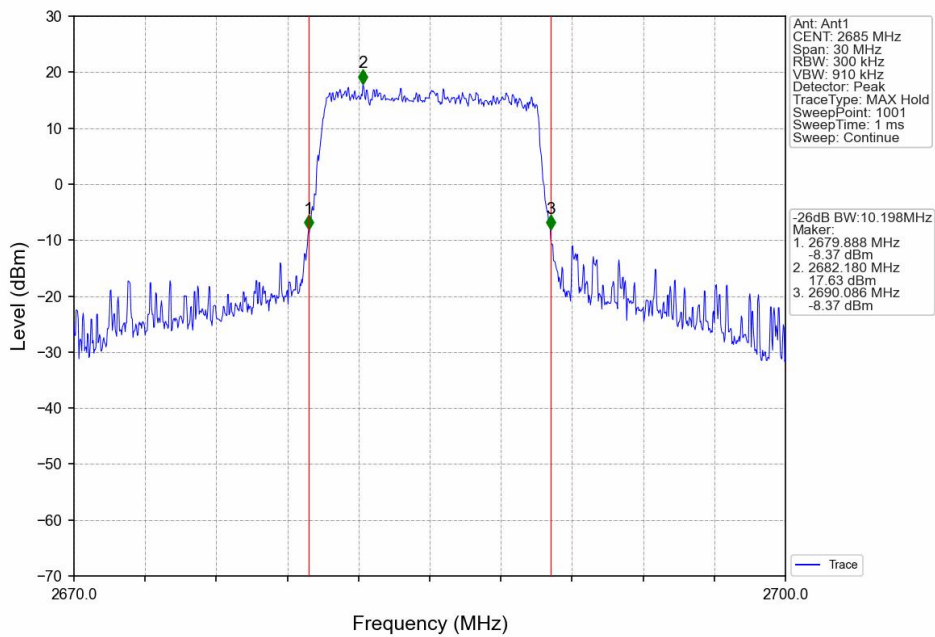
Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_50\_0\_NTNV



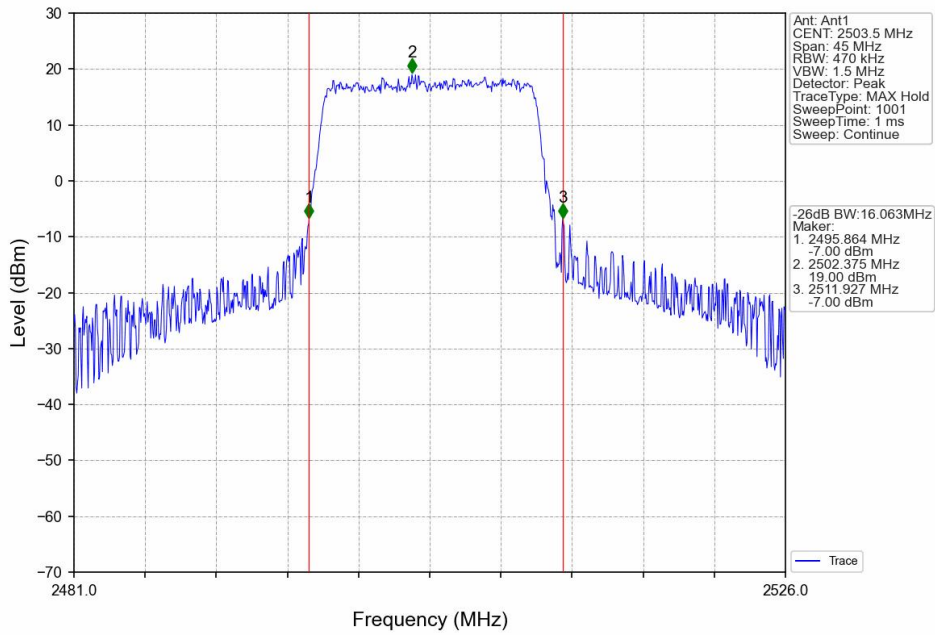
Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



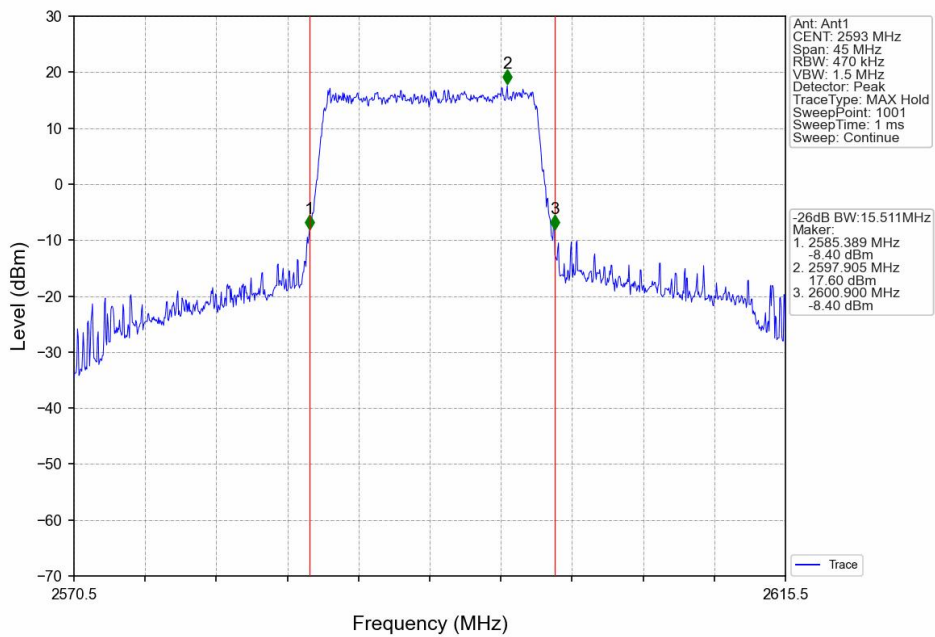
Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTN



Band41\_15MHz\_QPSK\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV

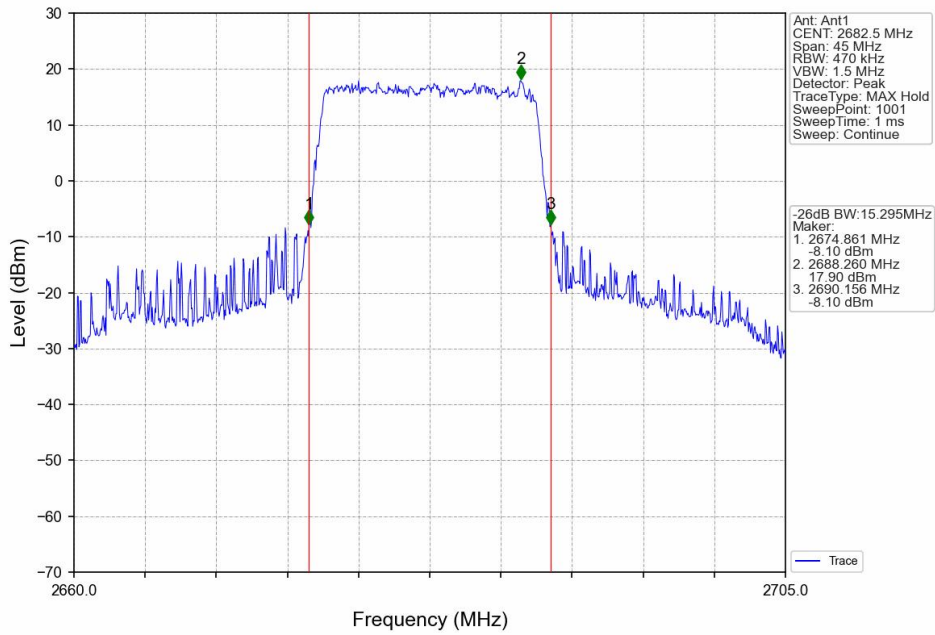


Band41\_15MHz\_QPSK\_MCH\_2593MHz\_RB\_75\_0\_NTNV

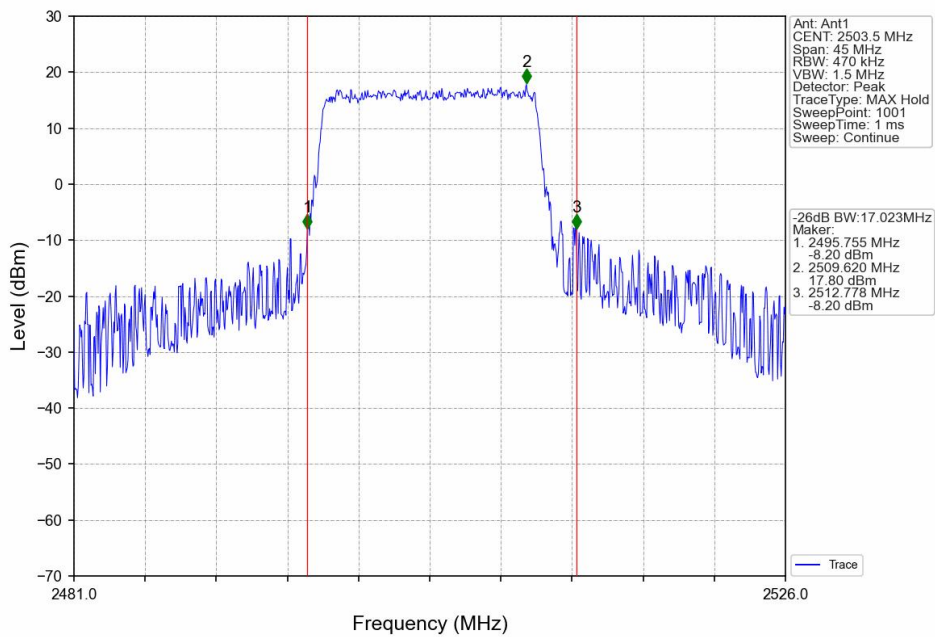




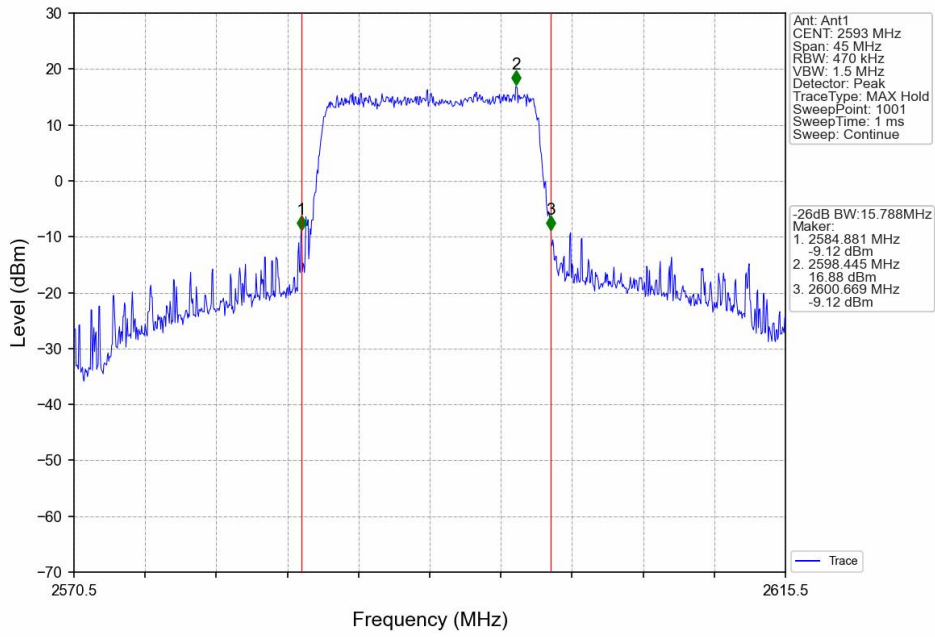
Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



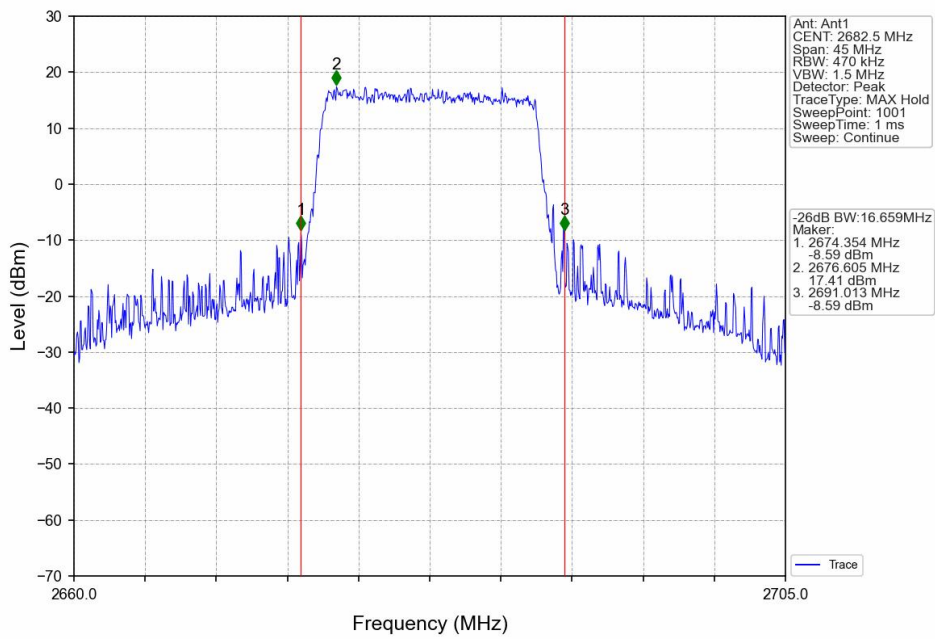
Band41\_15MHz\_16QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Band41 15MHz 16QAM MCH 2593MHz RB 75 0 NTNV

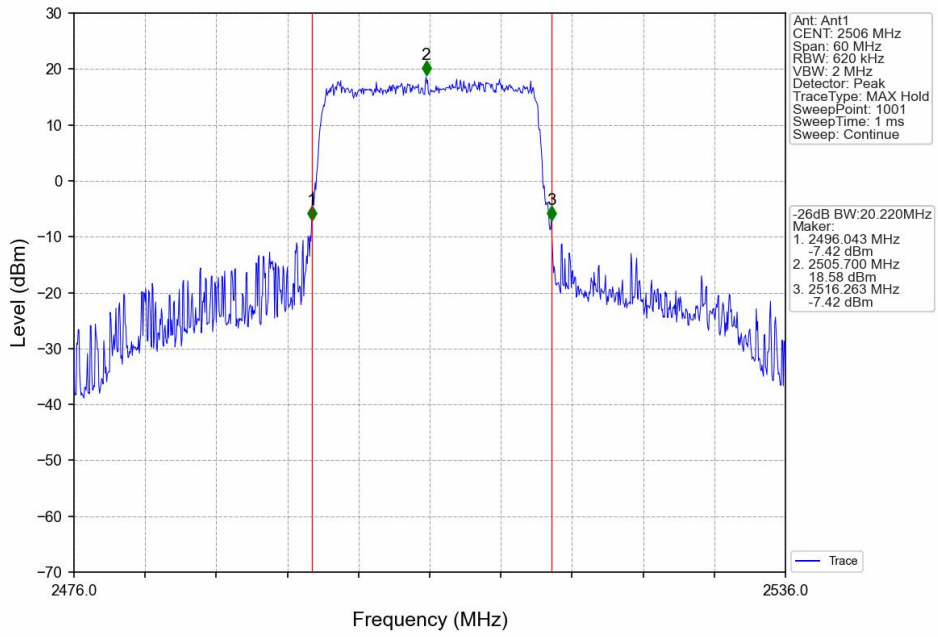


Band41 15MHz 16QAM HCH 2682.5MHz RB 75 0 NTNV

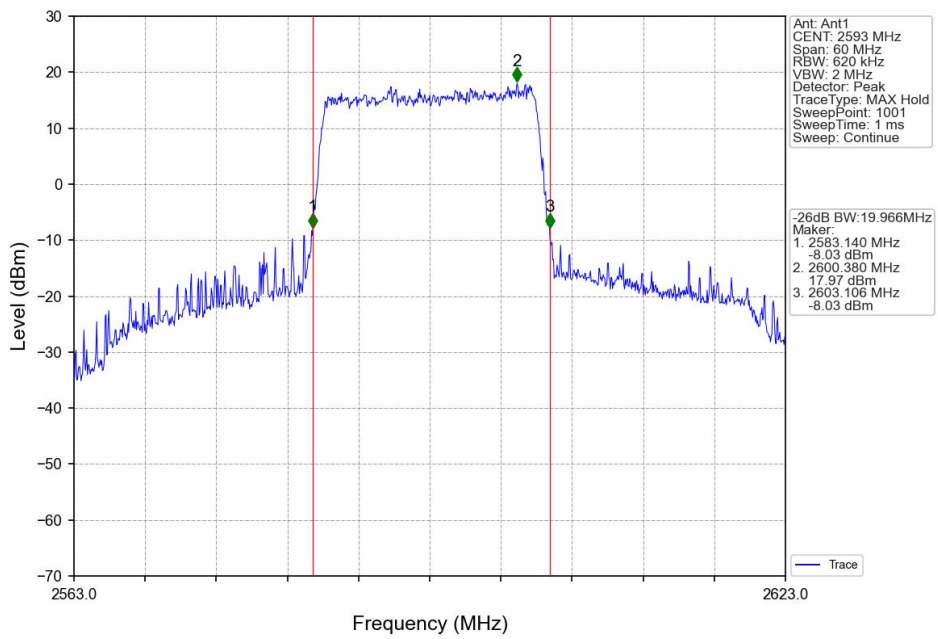




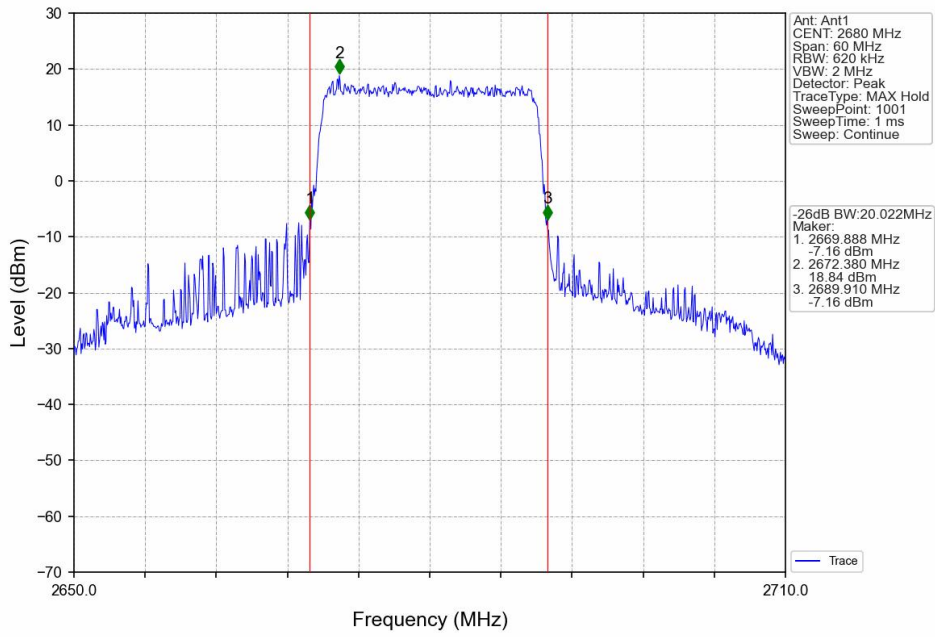
Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV



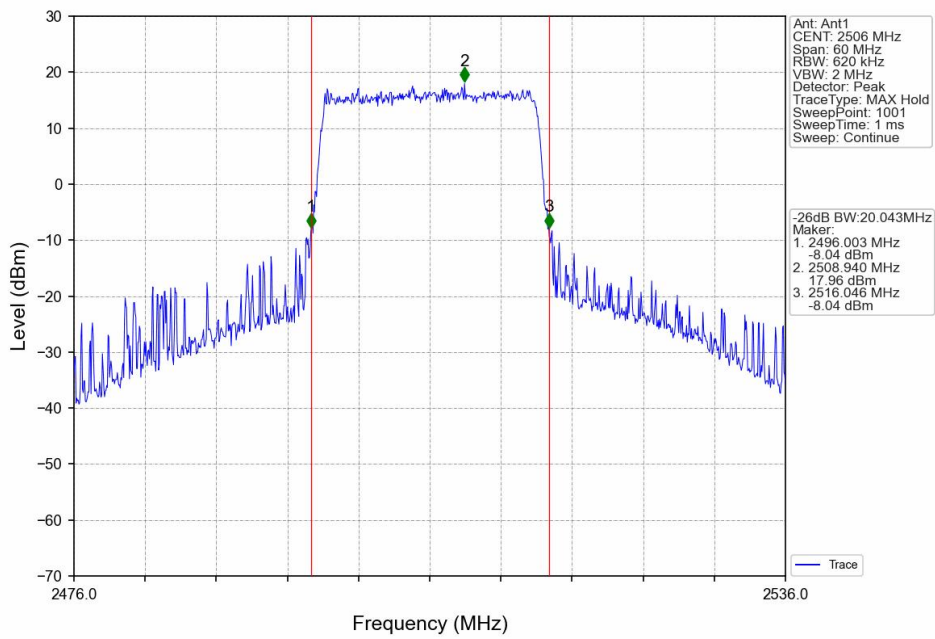
Band41\_20MHz\_QPSK\_MCH\_2593MHz\_RB\_100\_0\_NTNV



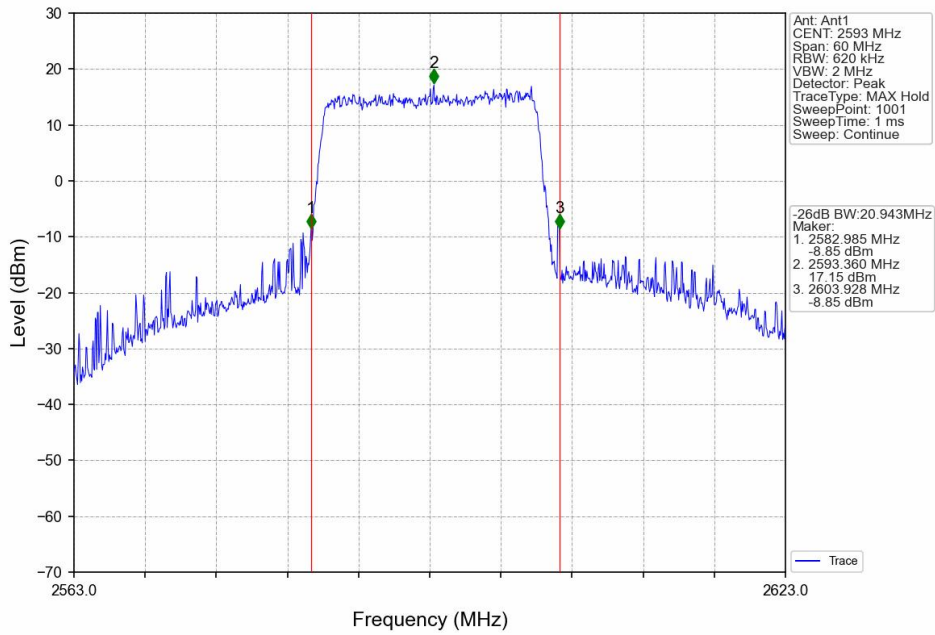
Band41 20MHz QPSK HCH 2680MHz RB 100\_0 NTN



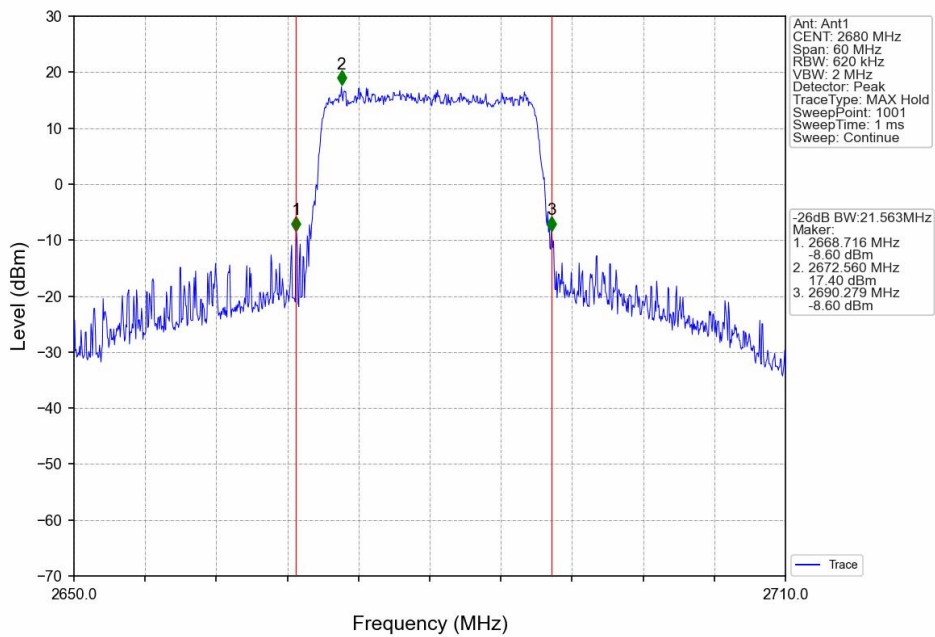
Band41 20MHz 16QAM LCH 2506MHz RB 100\_0 NTN



Band41\_20MHz\_16QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



## 5. Peak-Average Ratio

### 5.1 B41\_5MHz

#### 5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.39	<=13	Pass
	2593	25	0	7.55	<=13	Pass
	2687.5	25	0	7.53	<=13	Pass
16QAM	2498.5	25	0	8.11	<=13	Pass
	2593	25	0	8.33	<=13	Pass
	2687.5	25	0	8.50	<=13	Pass

## 5.1.2 Test Graph

