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# Appendix B.15

## LTE Band 42(3450-3550)



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 B42a\_5MHz\_EIRP

#### 1.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	3452.5	1	0	25.93	-0.13	25.80	<=30	Pass		
			13	25.97	-0.13	25.84	<=30	Pass		
			24	25.83	-0.13	25.70	<=30	Pass		
		12	0	24.82	-0.13	24.69	<=30	Pass		
			6	24.86	-0.13	24.73	<=30	Pass		
			13	24.84	-0.13	24.71	<=30	Pass		
		25	0	24.84	-0.13	24.71	<=30	Pass		
		3500	1	0	25.73	-0.13	25.60	<=30	Pass	
				13	25.79	-0.13	25.66	<=30	Pass	
	24			25.73	-0.13	25.60	<=30	Pass		
	12		0	24.69	-0.13	24.56	<=30	Pass		
			6	24.69	-0.13	24.56	<=30	Pass		
			13	24.67	-0.13	24.54	<=30	Pass		
	25		0	24.70	-0.13	24.57	<=30	Pass		
	3547.5		1	0	25.53	-0.13	25.40	<=30	Pass	
				13	25.63	-0.13	25.50	<=30	Pass	
		24		25.48	-0.13	25.35	<=30	Pass		
		12	0	24.54	-0.13	24.41	<=30	Pass		
			6	24.54	-0.13	24.41	<=30	Pass		
			13	24.53	-0.13	24.40	<=30	Pass		
		25	0	24.49	-0.13	24.36	<=30	Pass		
		16QAM	3452.5	1	0	25.19	-0.13	25.06	<=30	Pass
					13	25.16	-0.13	25.03	<=30	Pass
	24				25.00	-0.13	24.87	<=30	Pass	
12	0			23.94	-0.13	23.81	<=30	Pass		
	6			23.93	-0.13	23.80	<=30	Pass		
	13			23.82	-0.13	23.69	<=30	Pass		
25	0			23.89	-0.13	23.76	<=30	Pass		
3500	1			0	24.93	-0.13	24.80	<=30	Pass	
				13	24.95	-0.13	24.82	<=30	Pass	
			24	24.98	-0.13	24.85	<=30	Pass		
	12		0	23.69	-0.13	23.56	<=30	Pass		
			6	23.72	-0.13	23.59	<=30	Pass		
			13	23.72	-0.13	23.59	<=30	Pass		
	25		0	23.69	-0.13	23.56	<=30	Pass		
	3547.5		1	0	24.77	-0.13	24.64	<=30	Pass	
				13	24.92	-0.13	24.79	<=30	Pass	



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Modulation	Frequency (MHz)	RB Allocation	Conducted Power (dBm)					Verdict	
			Size	Offset	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		
64QAM	3452.5	12	24	0	24.74	-0.13	24.61	<=30	Pass
			0	23.55	-0.13	23.42	<=30	Pass	
			6	23.57	-0.13	23.44	<=30	Pass	
		25	13	23.57	-0.13	23.44	<=30	Pass	
			0	23.55	-0.13	23.42	<=30	Pass	
			24	23.83	-0.13	23.70	<=30	Pass	
	3500	1	0	24.94	-0.13	24.81	<=30	Pass	
			13	24.92	-0.13	24.79	<=30	Pass	
			24	23.83	-0.13	23.70	<=30	Pass	
		12	0	22.87	-0.13	22.74	<=30	Pass	
			6	22.85	-0.13	22.72	<=30	Pass	
			13	22.88	-0.13	22.75	<=30	Pass	
	25	0	22.90	-0.13	22.77	<=30	Pass		
		1	0	23.93	-0.13	23.80	<=30	Pass	
			13	23.86	-0.13	23.73	<=30	Pass	
	24		23.87	-0.13	23.74	<=30	Pass		
	3547.5	12	0	22.71	-0.13	22.58	<=30	Pass	
			6	22.73	-0.13	22.60	<=30	Pass	
			13	22.70	-0.13	22.57	<=30	Pass	
		25	0	22.75	-0.13	22.62	<=30	Pass	
			1	0	23.64	-0.13	23.51	<=30	Pass
				13	23.69	-0.13	23.56	<=30	Pass
	24	23.63		-0.13	23.50	<=30	Pass		
	12	0	22.57	-0.13	22.44	<=30	Pass		
6		22.54	-0.13	22.41	<=30	Pass			
13		22.56	-0.13	22.43	<=30	Pass			
25	0	22.58	-0.13	22.45	<=30	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B42a\_10MHz\_EIRP

### 1.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	3455	1	0	25.76	-0.13	25.63	<=30	Pass	
			25	25.76	-0.13	25.63	<=30	Pass	
			49	25.69	-0.13	25.56	<=30	Pass	
		25	0	24.88	-0.13	24.75	<=30	Pass	
			13	24.92	-0.13	24.79	<=30	Pass	
			25	24.84	-0.13	24.71	<=30	Pass	
	3500	50	0	24.97	-0.13	24.84	<=30	Pass	
			1	0	25.79	-0.13	25.66	<=30	Pass
				25	25.77	-0.13	25.64	<=30	Pass
		49		25.77	-0.13	25.64	<=30	Pass	
		25	0	24.73	-0.13	24.60	<=30	Pass	



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16QAM	3545	50	13	24.73	-0.13	24.60	<=30	Pass	
			25	24.74	-0.13	24.61	<=30	Pass	
		25	1	0	24.84	-0.13	24.71	<=30	Pass
				0	25.55	-0.13	25.42	<=30	Pass
			25	25.60	-0.13	25.47	<=30	Pass	
			49	25.58	-0.13	25.45	<=30	Pass	
	50		0	24.51	-0.13	24.38	<=30	Pass	
			13	24.55	-0.13	24.42	<=30	Pass	
	64QAM	3455	1	0	25.09	-0.13	24.96	<=30	Pass
				25	25.07	-0.13	24.94	<=30	Pass
				49	25.19	-0.13	25.06	<=30	Pass
			25	0	23.88	-0.13	23.75	<=30	Pass
13				23.89	-0.13	23.76	<=30	Pass	
25				23.89	-0.13	23.76	<=30	Pass	
50			0	24.03	-0.13	23.90	<=30	Pass	
3500			1	0	24.95	-0.13	24.82	<=30	Pass
				25	24.95	-0.13	24.82	<=30	Pass
		49		24.92	-0.13	24.79	<=30	Pass	
		25	0	23.71	-0.13	23.58	<=30	Pass	
			13	23.77	-0.13	23.64	<=30	Pass	
			25	23.69	-0.13	23.56	<=30	Pass	
50		0	23.81	-0.13	23.68	<=30	Pass		
3545		1	0	24.80	-0.13	24.67	<=30	Pass	
			25	24.67	-0.13	24.54	<=30	Pass	
			49	24.85	-0.13	24.72	<=30	Pass	
		25	0	23.44	-0.13	23.31	<=30	Pass	
	13		23.57	-0.13	23.44	<=30	Pass		
	25		23.53	-0.13	23.40	<=30	Pass		
	50	0	23.65	-0.13	23.52	<=30	Pass		
	64QAM	3455	1	0	24.10	-0.13	23.97	<=30	Pass
				25	24.08	-0.13	23.95	<=30	Pass
49				24.00	-0.13	23.87	<=30	Pass	
25			0	22.88	-0.13	22.75	<=30	Pass	
			13	22.93	-0.13	22.80	<=30	Pass	
			25	22.89	-0.13	22.76	<=30	Pass	
50		0	23.05	-0.13	22.92	<=30	Pass		
3500		1	0	23.73	-0.13	23.60	<=30	Pass	
			25	23.83	-0.13	23.70	<=30	Pass	
			49	23.86	-0.13	23.73	<=30	Pass	
		25	0	22.76	-0.13	22.63	<=30	Pass	
			13	22.77	-0.13	22.64	<=30	Pass	
			25	22.75	-0.13	22.62	<=30	Pass	
50		0	22.84	-0.13	22.71	<=30	Pass		
3545		1	0	23.78	-0.13	23.65	<=30	Pass	
	25		23.73	-0.13	23.60	<=30	Pass		
	49		23.75	-0.13	23.62	<=30	Pass		



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		25	0	22.53	-0.13	22.40	<=30	Pass
			13	22.56	-0.13	22.43	<=30	Pass
			25	22.56	-0.13	22.43	<=30	Pass
		50	0	22.71	-0.13	22.58	<=30	Pass

Note 1: EIRP=Conducted Power+Antenna Gain

## 1.3 B42a\_15MHz\_EIRP

### 1.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	3457.5	1	0	25.68	-0.13	25.55	<=30	Pass	
			38	25.69	-0.13	25.56	<=30	Pass	
			74	25.62	-0.13	25.49	<=30	Pass	
		36	0	24.84	-0.13	24.71	<=30	Pass	
			18	24.88	-0.13	24.75	<=30	Pass	
			39	24.81	-0.13	24.68	<=30	Pass	
		75	0	24.93	-0.13	24.80	<=30	Pass	
			0	25.79	-0.13	25.66	<=30	Pass	
			1	38	25.81	-0.13	25.68	<=30	Pass
	74	25.77		-0.13	25.64	<=30	Pass		
	36	0		24.68	-0.13	24.55	<=30	Pass	
		18	24.68	-0.13	24.55	<=30	Pass		
		39	24.67	-0.13	24.54	<=30	Pass		
	3542.5	75	0	24.82	-0.13	24.69	<=30	Pass	
			1	0	25.47	-0.13	25.34	<=30	Pass
				38	25.55	-0.13	25.42	<=30	Pass
		74		25.60	-0.13	25.47	<=30	Pass	
		36	0	24.45	-0.13	24.32	<=30	Pass	
			18	24.47	-0.13	24.34	<=30	Pass	
			39	24.51	-0.13	24.38	<=30	Pass	
		75	0	24.62	-0.13	24.49	<=30	Pass	
			1	0	25.06	-0.13	24.93	<=30	Pass
	38			24.96	-0.13	24.83	<=30	Pass	
	74	25.01		-0.13	24.88	<=30	Pass		
16QAM	3457.5	36	0	23.88	-0.13	23.75	<=30	Pass	
			18	23.80	-0.13	23.67	<=30	Pass	
			39	23.80	-0.13	23.67	<=30	Pass	
		75	0	23.92	-0.13	23.79	<=30	Pass	
			1	0	24.96	-0.13	24.83	<=30	Pass
				38	24.78	-0.13	24.65	<=30	Pass
	74	24.72		-0.13	24.59	<=30	Pass		
	36	0	23.67	-0.13	23.54	<=30	Pass		
		18	23.72	-0.13	23.59	<=30	Pass		



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64QAM	3542.5	75	39	23.57	-0.13	23.44	<=30	Pass	
			0	23.79	-0.13	23.66	<=30	Pass	
			74	24.74	-0.13	24.61	<=30	Pass	
		36	1	0	24.53	-0.13	24.40	<=30	Pass
			38	24.71	-0.13	24.58	<=30	Pass	
			74	24.71	-0.13	24.58	<=30	Pass	
	75	0	23.45	-0.13	23.32	<=30	Pass		
		18	23.52	-0.13	23.39	<=30	Pass		
		39	23.51	-0.13	23.38	<=30	Pass		
	3457.5	3500	1	0	23.62	-0.13	23.49	<=30	Pass
				38	23.96	-0.13	23.83	<=30	Pass
				74	24.04	-0.13	23.91	<=30	Pass
			36	0	23.73	-0.13	23.60	<=30	Pass
				38	22.84	-0.13	22.71	<=30	Pass
				74	22.84	-0.13	22.71	<=30	Pass
75		0	22.85	-0.13	22.72	<=30	Pass		
		39	22.85	-0.13	22.72	<=30	Pass		
		75	0	22.95	-0.13	22.82	<=30	Pass	
3542.5		1	0	23.80	-0.13	23.67	<=30	Pass	
			38	23.88	-0.13	23.75	<=30	Pass	
			74	23.80	-0.13	23.67	<=30	Pass	
		36	0	22.68	-0.13	22.55	<=30	Pass	
			18	22.69	-0.13	22.56	<=30	Pass	
			39	22.71	-0.13	22.58	<=30	Pass	
	75	0	22.82	-0.13	22.69	<=30	Pass		
		1	0	23.67	-0.13	23.54	<=30	Pass	
		38	23.54	-0.13	23.41	<=30	Pass		
3542.5	36	74	23.68	-0.13	23.55	<=30	Pass		
		0	22.47	-0.13	22.34	<=30	Pass		
		18	22.53	-0.13	22.40	<=30	Pass		
	75	39	22.50	-0.13	22.37	<=30	Pass		
		0	22.64	-0.13	22.51	<=30	Pass		
		75	0	22.64	-0.13	22.51	<=30	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

## 1.4 B42a\_20MHz\_EIRP

### 1.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	3460	1	0	25.77	-0.13	25.64	<=30	Pass
			50	25.74	-0.13	25.61	<=30	Pass
			99	25.68	-0.13	25.55	<=30	Pass
		50	0	24.84	-0.13	24.71	<=30	Pass
			25	24.96	-0.13	24.83	<=30	Pass
			50	24.85	-0.13	24.72	<=30	Pass
		100	0	25.03	-0.13	24.90	<=30	Pass



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	3500	1	0	25.88	-0.13	25.75	<=30	Pass	
			50	25.96	-0.13	25.83	<=30	Pass	
			99	25.79	-0.13	25.66	<=30	Pass	
		50	0	24.66	-0.13	24.53	<=30	Pass	
			25	24.75	-0.13	24.62	<=30	Pass	
			50	24.62	-0.13	24.49	<=30	Pass	
	100	0	24.79	-0.13	24.66	<=30	Pass		
	3540	1	0	25.57	-0.13	25.44	<=30	Pass	
			50	25.68	-0.13	25.55	<=30	Pass	
			99	25.59	-0.13	25.46	<=30	Pass	
		50	0	24.57	-0.13	24.44	<=30	Pass	
			25	24.59	-0.13	24.46	<=30	Pass	
			50	24.53	-0.13	24.40	<=30	Pass	
	100	0	24.66	-0.13	24.53	<=30	Pass		
	16QAM	3460	1	0	24.99	-0.13	24.86	<=30	Pass
				50	25.00	-0.13	24.87	<=30	Pass
				99	24.94	-0.13	24.81	<=30	Pass
			50	0	23.89	-0.13	23.76	<=30	Pass
25				23.89	-0.13	23.76	<=30	Pass	
50				23.85	-0.13	23.72	<=30	Pass	
100		0	24.03	-0.13	23.90	<=30	Pass		
3500		1	0	24.97	-0.13	24.84	<=30	Pass	
			50	24.69	-0.13	24.56	<=30	Pass	
			99	24.94	-0.13	24.81	<=30	Pass	
		50	0	23.77	-0.13	23.64	<=30	Pass	
			25	23.80	-0.13	23.67	<=30	Pass	
			50	23.65	-0.13	23.52	<=30	Pass	
100		0	23.78	-0.13	23.65	<=30	Pass		
3540		1	0	24.80	-0.13	24.67	<=30	Pass	
			50	24.76	-0.13	24.63	<=30	Pass	
			99	24.65	-0.13	24.52	<=30	Pass	
		50	0	23.56	-0.13	23.43	<=30	Pass	
			25	23.59	-0.13	23.46	<=30	Pass	
			50	23.54	-0.13	23.41	<=30	Pass	
100		0	23.68	-0.13	23.55	<=30	Pass		
64QAM		3460	1	0	23.87	-0.13	23.74	<=30	Pass
				50	24.13	-0.13	24.00	<=30	Pass
				99	23.98	-0.13	23.85	<=30	Pass
	50		0	22.85	-0.13	22.72	<=30	Pass	
			25	22.96	-0.13	22.83	<=30	Pass	
			50	22.83	-0.13	22.70	<=30	Pass	
	100	0	23.00	-0.13	22.87	<=30	Pass		
	3500	1	0	23.90	-0.13	23.77	<=30	Pass	
			50	23.93	-0.13	23.80	<=30	Pass	
			99	23.90	-0.13	23.77	<=30	Pass	
		50	0	22.79	-0.13	22.66	<=30	Pass	
			25	22.80	-0.13	22.67	<=30	Pass	
			50	22.71	-0.13	22.58	<=30	Pass	



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3540	100	0	22.77	-0.13	22.64	<=30	Pass
	1	0	23.69	-0.13	23.56	<=30	Pass
		50	23.72	-0.13	23.59	<=30	Pass
		99	23.57	-0.13	23.44	<=30	Pass
	50	0	22.58	-0.13	22.45	<=30	Pass
		25	22.61	-0.13	22.48	<=30	Pass
		50	22.59	-0.13	22.46	<=30	Pass
	100	0	22.67	-0.13	22.54	<=30	Pass
	Note1: EIRP=Conducted Power+Antenna Gain						



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## 2. Frequency Stability

### 2.1 B42a\_5MHz

#### 2.1.1 Test Result

Band: 42a / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3452.5	25	0	20	3.3	-1.200	-0.0003	/	Pass
					3.8	2.200	0.0006	/	Pass
					4.3	10.000	0.0029	/	Pass
				-30	3.8	-0.200	-0.0001	/	Pass
				-20	3.8	-1.900	-0.0006	/	Pass
				-10	3.8	0.400	0.0001	/	Pass
				0	3.8	3.100	0.0009	/	Pass
				10	3.8	0.800	0.0002	/	Pass
				30	3.8	-0.200	-0.0001	/	Pass
	40	3.8	-0.800	-0.0002	/	Pass			
	50	3.8	0.700	0.0002	/	Pass			
	3500	25	0	20	3.3	1.100	0.0003	/	Pass
					3.8	-1.200	-0.0003	/	Pass
					4.3	0.200	0.0001	/	Pass
				-30	3.8	3.600	0.0010	/	Pass
				-20	3.8	-4.700	-0.0013	/	Pass
				-10	3.8	0.600	0.0002	/	Pass
				0	3.8	-5.300	-0.0015	/	Pass
				10	3.8	6.900	0.0020	/	Pass
				30	3.8	2.300	0.0007	/	Pass
	40	3.8	3.100	0.0009	/	Pass			
	50	3.8	2.400	0.0007	/	Pass			
	3547.5	25	0	20	3.3	0.500	0.0001	/	Pass
					3.8	0.800	0.0002	/	Pass
					4.3	3.100	0.0009	/	Pass
				-30	3.8	0.800	0.0002	/	Pass
				-20	3.8	2.700	0.0008	/	Pass
-10				3.8	-0.900	-0.0003	/	Pass	
0				3.8	-1.800	-0.0005	/	Pass	
10				3.8	-1.700	-0.0005	/	Pass	
30				3.8	-5.700	-0.0016	/	Pass	
40	3.8	0.000	0.0000	/	Pass				
50	3.8	-0.500	-0.0001	/	Pass				
16QAM	3452.5	25	0	20	3.3	2.700	0.0008	/	Pass
					3.8	-1.900	-0.0006	/	Pass
					4.3	1.100	0.0003	/	Pass
				-30	3.8	-2.300	-0.0007	/	Pass



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64QAM	3500	25	0	-20	3.8	2.000	0.0006	/	Pass		
				-10	3.8	0.300	0.0001	/	Pass		
				0	3.8	1.800	0.0005	/	Pass		
				10	3.8	4.900	0.0014	/	Pass		
				30	3.8	0.100	0.0000	/	Pass		
				40	3.8	2.000	0.0006	/	Pass		
				50	3.8	3.100	0.0009	/	Pass		
	3500	25	0	20	3.3	2.500	0.0007	/	Pass		
					3.8	1.200	0.0003	/	Pass		
					4.3	0.200	0.0001	/	Pass		
				-30	3.8	-3.000	-0.0009	/	Pass		
				-20	3.8	-0.400	-0.0001	/	Pass		
				-10	3.8	1.100	0.0003	/	Pass		
				0	3.8	-2.300	-0.0007	/	Pass		
				10	3.8	-3.800	-0.0011	/	Pass		
				30	3.8	5.400	0.0015	/	Pass		
				40	3.8	0.600	0.0002	/	Pass		
				50	3.8	3.700	0.0011	/	Pass		
	3547.5	25	0	20	3.3	0.200	0.0001	/	Pass		
					3.8	-1.400	-0.0004	/	Pass		
					4.3	-0.500	-0.0001	/	Pass		
				-30	3.8	3.100	0.0009	/	Pass		
				-20	3.8	0.700	0.0002	/	Pass		
				-10	3.8	-4.500	-0.0013	/	Pass		
				0	3.8	-0.600	-0.0002	/	Pass		
				10	3.8	-2.500	-0.0007	/	Pass		
				30	3.8	8.700	0.0025	/	Pass		
				40	3.8	1.400	0.0004	/	Pass		
50				3.8	0.200	0.0001	/	Pass			
3452.5	25	0	20	3.3	-3.400	-0.0010	/	Pass			
				3.8	1.400	0.0004	/	Pass			
				4.3	-0.300	-0.0001	/	Pass			
			-30	3.8	-2.800	-0.0008	/	Pass			
			-20	3.8	5.100	0.0015	/	Pass			
			-10	3.8	2.000	0.0006	/	Pass			
			0	3.8	0.600	0.0002	/	Pass			
			10	3.8	2.700	0.0008	/	Pass			
			30	3.8	2.000	0.0006	/	Pass			
			40	3.8	-4.100	-0.0012	/	Pass			
			50	3.8	-1.100	-0.0003	/	Pass			
			3500	25	0	20	3.3	3.000	0.0009	/	Pass
							3.8	-1.400	-0.0004	/	Pass
							4.3	-1.600	-0.0005	/	Pass
-30	3.8	2.400				0.0007	/	Pass			
-20	3.8	7.000				0.0020	/	Pass			
-10	3.8	3.000				0.0009	/	Pass			
0	3.8	-0.100				0.0000	/	Pass			
10	3.8	3.100	0.0009	/	Pass						



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3547.5	25	0	30	3.8	2.400	0.0007	/	Pass
			40	3.8	-1.500	-0.0004	/	Pass
			50	3.8	-0.200	-0.0001	/	Pass
			20	3.3	-0.500	-0.0001	/	Pass
				3.8	1.200	0.0003	/	Pass
				4.3	-2.800	-0.0008	/	Pass
			-30	3.8	-1.200	-0.0003	/	Pass
			-20	3.8	-0.500	-0.0001	/	Pass
			-10	3.8	-0.200	-0.0001	/	Pass
			0	3.8	-1.600	-0.0005	/	Pass
			10	3.8	-0.700	-0.0002	/	Pass
			30	3.8	-1.300	-0.0004	/	Pass
			40	3.8	-4.100	-0.0012	/	Pass
50	3.8	1.200	0.0003	/	Pass			

## 2.2 B42a\_10MHz

### 2.2.1 Test Result

Band: 42a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3455	50	0	20	3.3	2.300	0.0007	/	Pass
					3.8	6.200	0.0018	/	Pass
					4.3	-3.100	-0.0009	/	Pass
				-30	3.8	0.200	0.0001	/	Pass
				-20	3.8	-2.800	-0.0008	/	Pass
				-10	3.8	1.100	0.0003	/	Pass
				0	3.8	1.300	0.0004	/	Pass
				10	3.8	-3.000	-0.0009	/	Pass
				30	3.8	-1.400	-0.0004	/	Pass
				40	3.8	-0.900	-0.0003	/	Pass
	50	3.8	-1.000	-0.0003	/	Pass			
	3500	50	0	20	3.3	1.400	0.0004	/	Pass
					3.8	2.300	0.0007	/	Pass
					4.3	1.400	0.0004	/	Pass
				-30	3.8	3.000	0.0009	/	Pass
				-20	3.8	-0.100	0.0000	/	Pass
				-10	3.8	-0.700	-0.0002	/	Pass
				0	3.8	0.200	0.0001	/	Pass
				10	3.8	-2.800	-0.0008	/	Pass
				30	3.8	1.400	0.0004	/	Pass
40				3.8	6.000	0.0017	/	Pass	
50	3.8	-2.300	-0.0007	/	Pass				
3545	50	0	20	3.3	1.900	0.0005	/	Pass	
				3.8	1.000	0.0003	/	Pass	



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					4.3	-2.900	-0.0008	/	Pass
				-30	3.8	2.900	0.0008	/	Pass
				-20	3.8	-0.600	-0.0002	/	Pass
				-10	3.8	1.700	0.0005	/	Pass
				0	3.8	-2.700	-0.0008	/	Pass
				10	3.8	0.600	0.0002	/	Pass
				30	3.8	-1.300	-0.0004	/	Pass
				40	3.8	-0.500	-0.0001	/	Pass
				50	3.8	-3.900	-0.0011	/	Pass
16QAM	3455	50	0	20	3.3	-3.000	-0.0009	/	Pass
					3.8	0.100	0.0000	/	Pass
					4.3	-1.600	-0.0005	/	Pass
				-30	3.8	-1.000	-0.0003	/	Pass
				-20	3.8	-0.200	-0.0001	/	Pass
				-10	3.8	3.900	0.0011	/	Pass
				0	3.8	-0.200	-0.0001	/	Pass
				10	3.8	1.900	0.0005	/	Pass
				30	3.8	0.200	0.0001	/	Pass
				40	3.8	-0.600	-0.0002	/	Pass
				50	3.8	0.800	0.0002	/	Pass
				3500	50	0	20	3.3	0.800
	3.8	2.700	0.0008					/	Pass
	4.3	-4.000	-0.0011					/	Pass
	-30	3.8	-1.600				-0.0005	/	Pass
	-20	3.8	1.700				0.0005	/	Pass
	-10	3.8	-1.300				-0.0004	/	Pass
	0	3.8	1.500				0.0004	/	Pass
	10	3.8	0.900				0.0003	/	Pass
	30	3.8	-1.300				-0.0004	/	Pass
	40	3.8	4.200				0.0012	/	Pass
	50	3.8	5.200				0.0015	/	Pass
	3545	50	0				20	3.3	-2.100
				3.8	-0.900	-0.0003		/	Pass
4.3				-1.200	-0.0003	/		Pass	
-30				3.8	-0.500	-0.0001	/	Pass	
-20				3.8	-2.800	-0.0008	/	Pass	
-10				3.8	-1.100	-0.0003	/	Pass	
0				3.8	-2.700	-0.0008	/	Pass	
10				3.8	1.300	0.0004	/	Pass	
30				3.8	-2.100	-0.0006	/	Pass	
40				3.8	0.100	0.0000	/	Pass	
50				3.8	-3.000	-0.0008	/	Pass	
64QAM				3455	50	0	20	3.3	1.900
	3.8	0.700	0.0002					/	Pass
	4.3	3.700	0.0011					/	Pass
	-30	3.8	-1.600				-0.0005	/	Pass
	-20	3.8	-2.700				-0.0008	/	Pass
	-10	3.8	-4.100				-0.0012	/	Pass



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3500	50	0	0	3.8	3.900	0.0011	/	Pass				
			10	3.8	-2.600	-0.0008	/	Pass				
			30	3.8	0.900	0.0003	/	Pass				
			40	3.8	2.500	0.0007	/	Pass				
			50	3.8	3.100	0.0009	/	Pass				
	3545	50	0	20	3.3	1.600	0.0005	/	Pass			
					3.8	2.700	0.0008	/	Pass			
					4.3	-1.800	-0.0005	/	Pass			
				-30	3.8	3.200	0.0009	/	Pass			
				-20	3.8	-1.700	-0.0005	/	Pass			
				-10	3.8	2.100	0.0006	/	Pass			
				0	3.8	-0.600	-0.0002	/	Pass			
				10	3.8	-5.000	-0.0014	/	Pass			
				30	3.8	-2.500	-0.0007	/	Pass			
				40	3.8	4.100	0.0012	/	Pass			
				50	3.8	-1.300	-0.0004	/	Pass			
				3545	50	0	20	3.3	-2.600	-0.0007	/	Pass
								3.8	-1.500	-0.0004	/	Pass
								4.3	0.500	0.0001	/	Pass
-30	3.8	0.800	0.0002				/	Pass				
-20	3.8	-0.600	-0.0002				/	Pass				
-10	3.8	-1.200	-0.0003				/	Pass				
0	3.8	5.000	0.0014				/	Pass				
10	3.8	1.700	0.0005				/	Pass				
30	3.8	0.600	0.0002				/	Pass				
40	3.8	0.200	0.0001	/	Pass							
50	3.8	1.700	0.0005	/	Pass							

## 2.3 B42a\_15MHz

### 2.3.1 Test Result

Band: 42a / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3457.5	75	0	20	3.3	1.300	0.0004	/	Pass
					3.8	-0.300	-0.0001	/	Pass
					4.3	0.200	0.0001	/	Pass
				-30	3.8	-2.700	-0.0008	/	Pass
				-20	3.8	-0.100	0.0000	/	Pass
				-10	3.8	0.100	0.0000	/	Pass
				0	3.8	0.400	0.0001	/	Pass
				10	3.8	8.400	0.0024	/	Pass
				30	3.8	-3.200	-0.0009	/	Pass
				40	3.8	-0.900	-0.0003	/	Pass
				50	3.8	1.200	0.0003	/	Pass



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16QAM	3500	75	0	20	3.3	0.800	0.0002	/	Pass
					3.8	-2.200	-0.0006	/	Pass
					4.3	1.900	0.0005	/	Pass
				-30	3.8	1.800	0.0005	/	Pass
				-20	3.8	1.900	0.0005	/	Pass
				-10	3.8	-2.400	-0.0007	/	Pass
				0	3.8	-1.000	-0.0003	/	Pass
				10	3.8	0.000	0.0000	/	Pass
				30	3.8	-1.900	-0.0005	/	Pass
	40	3.8	-2.100	-0.0006	/	Pass			
	50	3.8	-0.700	-0.0002	/	Pass			
	3542.5	75	0	20	3.3	-2.200	-0.0006	/	Pass
					3.8	-0.500	-0.0001	/	Pass
					4.3	-4.900	-0.0014	/	Pass
				-30	3.8	-2.700	-0.0008	/	Pass
				-20	3.8	0.300	0.0001	/	Pass
				-10	3.8	-0.900	-0.0003	/	Pass
				0	3.8	-2.600	-0.0007	/	Pass
				10	3.8	-2.500	-0.0007	/	Pass
30				3.8	-2.900	-0.0008	/	Pass	
40	3.8	-1.800	-0.0005	/	Pass				
50	3.8	1.400	0.0004	/	Pass				
16QAM	3457.5	75	0	20	3.3	0.300	0.0001	/	Pass
					3.8	1.300	0.0004	/	Pass
					4.3	-1.000	-0.0003	/	Pass
				-30	3.8	-1.400	-0.0004	/	Pass
				-20	3.8	2.000	0.0006	/	Pass
				-10	3.8	-0.800	-0.0002	/	Pass
				0	3.8	-2.400	-0.0007	/	Pass
				10	3.8	0.300	0.0001	/	Pass
				30	3.8	-2.900	-0.0008	/	Pass
	40	3.8	-1.000	-0.0003	/	Pass			
	50	3.8	0.100	0.0000	/	Pass			
	3500	75	0	20	3.3	-1.300	-0.0004	/	Pass
					3.8	3.500	0.0010	/	Pass
					4.3	3.700	0.0011	/	Pass
				-30	3.8	-1.100	-0.0003	/	Pass
				-20	3.8	-1.300	-0.0004	/	Pass
				-10	3.8	1.200	0.0003	/	Pass
				0	3.8	-2.400	-0.0007	/	Pass
				10	3.8	-2.800	-0.0008	/	Pass
30				3.8	1.200	0.0003	/	Pass	
40	3.8	-1.900	-0.0005	/	Pass				
50	3.8	-2.000	-0.0006	/	Pass				
3542.5	75	0	20	3.3	-1.500	-0.0004	/	Pass	
				3.8	2.600	0.0007	/	Pass	
				4.3	0.400	0.0001	/	Pass	
			-30	3.8	1.400	0.0004	/	Pass	



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				-20	3.8	-2.100	-0.0006	/	Pass	
				-10	3.8	-3.800	-0.0011	/	Pass	
				0	3.8	-1.300	-0.0004	/	Pass	
				10	3.8	-5.400	-0.0015	/	Pass	
				30	3.8	-5.800	-0.0016	/	Pass	
				40	3.8	-0.400	-0.0001	/	Pass	
				50	3.8	-1.400	-0.0004	/	Pass	
64QAM	3457.5	75	0	20	3.3	-0.700	-0.0002	/	Pass	
					3.8	-0.600	-0.0002	/	Pass	
					4.3	5.000	0.0014	/	Pass	
				-30	3.8	1.600	0.0005	/	Pass	
					-20	3.8	-6.100	-0.0018	/	Pass
						3.8	2.000	0.0006	/	Pass
				3.8		1.100	0.0003	/	Pass	
				10	3.8	-3.400	-0.0010	/	Pass	
					30	3.8	2.000	0.0006	/	Pass
	3.8	2.700	0.0008			/	Pass			
	50	3.8	-1.100	-0.0003		/	Pass			
		20	3.3	-0.700	-0.0002	/	Pass			
			3.8	3.400	0.0010	/	Pass			
	4.3		-4.700	-0.0013	/	Pass				
	-30	3.8	2.000	0.0006	/	Pass				
		-20	3.8	-0.800	-0.0002	/	Pass			
			3.8	5.300	0.0015	/	Pass			
	0		3.8	-5.200	-0.0015	/	Pass			
		10	3.8	-0.100	0.0000	/	Pass			
			30	3.8	-0.700	-0.0002	/	Pass		
	40			3.8	-0.800	-0.0002	/	Pass		
		50		3.8	-2.200	-0.0006	/	Pass		
			20	3.3	0.300	0.0001	/	Pass		
	3.8			0.600	0.0002	/	Pass			
	4.3	-4.800		-0.0014	/	Pass				
	-30	3.8	-3.100	-0.0009	/	Pass				
		-20	3.8	4.100	0.0012	/	Pass			
3.8			-3.100	-0.0009	/	Pass				
0	3.8		1.200	0.0003	/	Pass				
	10	3.8	-2.000	-0.0006	/	Pass				
		30	3.8	-2.200	-0.0006	/	Pass			
40			3.8	-2.700	-0.0008	/	Pass			
	50		3.8	-3.300	-0.0009	/	Pass			



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## 2.4 B42a\_20MHz

### 2.4.1 Test Result

Band: 42a / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	3460	100	0	20	3.3	3.900	0.0011	/	Pass	
					3.8	-3.000	-0.0009	/	Pass	
					4.3	-2.800	-0.0008	/	Pass	
				-30	3.8	-1.400	-0.0004	/	Pass	
					-20	3.8	1.800	0.0005	/	Pass
					-10	3.8	-1.100	-0.0003	/	Pass
				0	3.8	-5.200	-0.0015	/	Pass	
					10	3.8	-0.500	-0.0001	/	Pass
					30	3.8	-0.400	-0.0001	/	Pass
	40	3.8	-3.400		-0.0010	/	Pass			
	50	3.8	-2.600		-0.0008	/	Pass			
	3500	100	0		20	3.3	4.600	0.0013	/	Pass
				3.8		-1.900	-0.0005	/	Pass	
				4.3		1.400	0.0004	/	Pass	
				-30	3.8	-2.800	-0.0008	/	Pass	
					-20	3.8	0.900	0.0003	/	Pass
					-10	3.8	0.000	0.0000	/	Pass
				0	3.8	2.200	0.0006	/	Pass	
					10	3.8	-0.500	-0.0001	/	Pass
					30	3.8	1.400	0.0004	/	Pass
	40	3.8	-2.100		-0.0006	/	Pass			
	50	3.8	1.100		0.0003	/	Pass			
	3540	100	0		20	3.3	0.400	0.0001	/	Pass
				3.8		0.700	0.0002	/	Pass	
				4.3		1.000	0.0003	/	Pass	
				-30	3.8	-4.600	-0.0013	/	Pass	
					-20	3.8	0.500	0.0001	/	Pass
-10					3.8	1.000	0.0003	/	Pass	
0				3.8	-4.500	-0.0013	/	Pass		
				10	3.8	1.300	0.0004	/	Pass	
				30	3.8	8.500	0.0024	/	Pass	
	40	3.8	3.300	0.0009	/	Pass				
	50	3.8	-1.000	-0.0003	/	Pass				
	16QAM	3460	100	0	20	3.3	1.000	0.0003	/	Pass
3.8						-3.600	-0.0010	/	Pass	
4.3						-3.600	-0.0010	/	Pass	
-30					3.8	-4.200	-0.0012	/	Pass	
					-20	3.8	0.400	0.0001	/	Pass
					-10	3.8	-2.600	-0.0008	/	Pass
0					3.8	1.600	0.0005	/	Pass	



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64QAM	3500	100	0	10	3.8	-2.500	-0.0007	/	Pass	
				30	3.8	2.900	0.0008	/	Pass	
				40	3.8	-3.100	-0.0009	/	Pass	
				50	3.8	-2.000	-0.0006	/	Pass	
				20	3.3	1.700	0.0005	/	Pass	
					3.8	1.100	0.0003	/	Pass	
					4.3	4.600	0.0013	/	Pass	
					-30	3.8	0.300	0.0001	/	Pass
					-20	3.8	-1.600	-0.0005	/	Pass
					-10	3.8	-1.300	-0.0004	/	Pass
					0	3.8	-1.700	-0.0005	/	Pass
					10	3.8	-3.200	-0.0009	/	Pass
	30	3.8	5.300	0.0015	/	Pass				
		40	3.8	-3.100	-0.0009	/	Pass			
		50	3.8	-2.700	-0.0008	/	Pass			
		20	3.3	-1.900	-0.0005	/	Pass			
			3.8	-2.500	-0.0007	/	Pass			
			4.3	1.300	0.0004	/	Pass			
		-30	3.8	1.000	0.0003	/	Pass			
		-20	3.8	1.300	0.0004	/	Pass			
	-10	3.8	4.000	0.0011	/	Pass				
	0	3.8	2.400	0.0007	/	Pass				
	10	3.8	7.300	0.0021	/	Pass				
	30	3.8	2.100	0.0006	/	Pass				
40	3.8	-0.300	-0.0001	/	Pass					
50	3.8	-0.300	-0.0001	/	Pass					
3460	100	0	20	3.3	-1.900	-0.0005	/	Pass		
				3.8	-1.500	-0.0004	/	Pass		
				4.3	3.300	0.0010	/	Pass		
			-30	3.8	-0.200	-0.0001	/	Pass		
			-20	3.8	-1.200	-0.0003	/	Pass		
			-10	3.8	-2.800	-0.0008	/	Pass		
			0	3.8	-3.900	-0.0011	/	Pass		
			10	3.8	0.200	0.0001	/	Pass		
			30	3.8	-1.600	-0.0005	/	Pass		
			40	3.8	6.600	0.0019	/	Pass		
			50	3.8	-0.400	-0.0001	/	Pass		
			3500	100	0	20	3.3	2.900	0.0008	/
3.8	-3.000	-0.0009					/	Pass		
4.3	2.900	0.0008					/	Pass		
-30	3.8	1.100				0.0003	/	Pass		
-20	3.8	-0.900				-0.0003	/	Pass		
-10	3.8	0.000				0.0000	/	Pass		
0	3.8	-1.000				-0.0003	/	Pass		
10	3.8	-0.100				0.0000	/	Pass		
30	3.8	-0.900				-0.0003	/	Pass		
40	3.8	-1.100				-0.0003	/	Pass		
50	3.8	3.200				0.0009	/	Pass		



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3540	100	0	20	3.3	2.700	0.0008	/	Pass
				3.8	0.900	0.0003	/	Pass
				4.3	-1.000	-0.0003	/	Pass
			-30	3.8	2.100	0.0006	/	Pass
			-20	3.8	2.000	0.0006	/	Pass
			-10	3.8	0.800	0.0002	/	Pass
			0	3.8	-4.300	-0.0012	/	Pass
			10	3.8	-0.200	-0.0001	/	Pass
			30	3.8	2.100	0.0006	/	Pass
			40	3.8	8.200	0.0023	/	Pass
			50	3.8	-0.400	-0.0001	/	Pass



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## 3. 99% & 26dB Bandwidth

### 3.1 Band42a\_OBW

#### 3.1.1 Test Result

Band: 42a / NTNv							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3452.5	25	0	4.577	/	Pass
		3500	25	0	4.546	/	Pass
		3547.5	25	0	4.568	/	Pass
	16QAM	3452.5	25	0	4.559	/	Pass
		3500	25	0	4.578	/	Pass
		3547.5	25	0	4.555	/	Pass
	64QAM	3452.5	25	0	4.564	/	Pass
		3500	25	0	4.551	/	Pass
		3547.5	25	0	4.581	/	Pass
10	QPSK	3455	50	0	9.058	/	Pass
		3500	50	0	9.067	/	Pass
		3545	50	0	9.098	/	Pass
	16QAM	3455	50	0	9.103	/	Pass
		3500	50	0	9.119	/	Pass
		3545	50	0	9.100	/	Pass
	64QAM	3455	50	0	9.103	/	Pass
		3500	50	0	9.082	/	Pass
		3545	50	0	9.092	/	Pass
15	QPSK	3457.5	75	0	13.642	/	Pass
		3500	75	0	13.591	/	Pass
		3542.5	75	0	13.622	/	Pass
	16QAM	3457.5	75	0	13.635	/	Pass
		3500	75	0	13.640	/	Pass
		3542.5	75	0	13.672	/	Pass
	64QAM	3457.5	75	0	13.627	/	Pass
		3500	75	0	13.580	/	Pass
		3542.5	75	0	13.630	/	Pass
20	QPSK	3460	100	0	18.113	/	Pass
		3500	100	0	18.152	/	Pass
		3540	100	0	18.157	/	Pass
	16QAM	3460	100	0	18.123	/	Pass
		3500	100	0	18.094	/	Pass
		3540	100	0	18.138	/	Pass
	64QAM	3460	100	0	18.102	/	Pass
		3500	100	0	18.098	/	Pass
		3540	100	0	18.170	/	Pass



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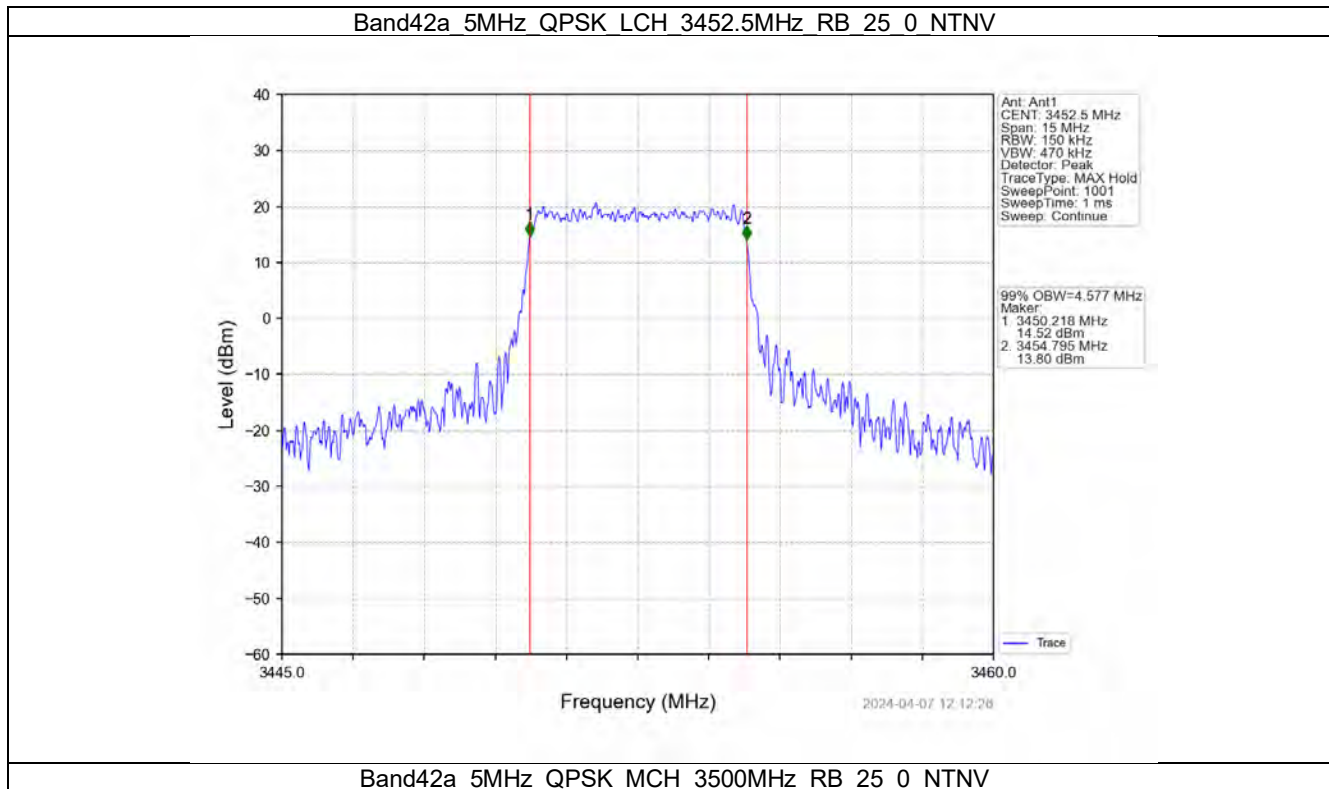
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## 3.1.2 Test Graph



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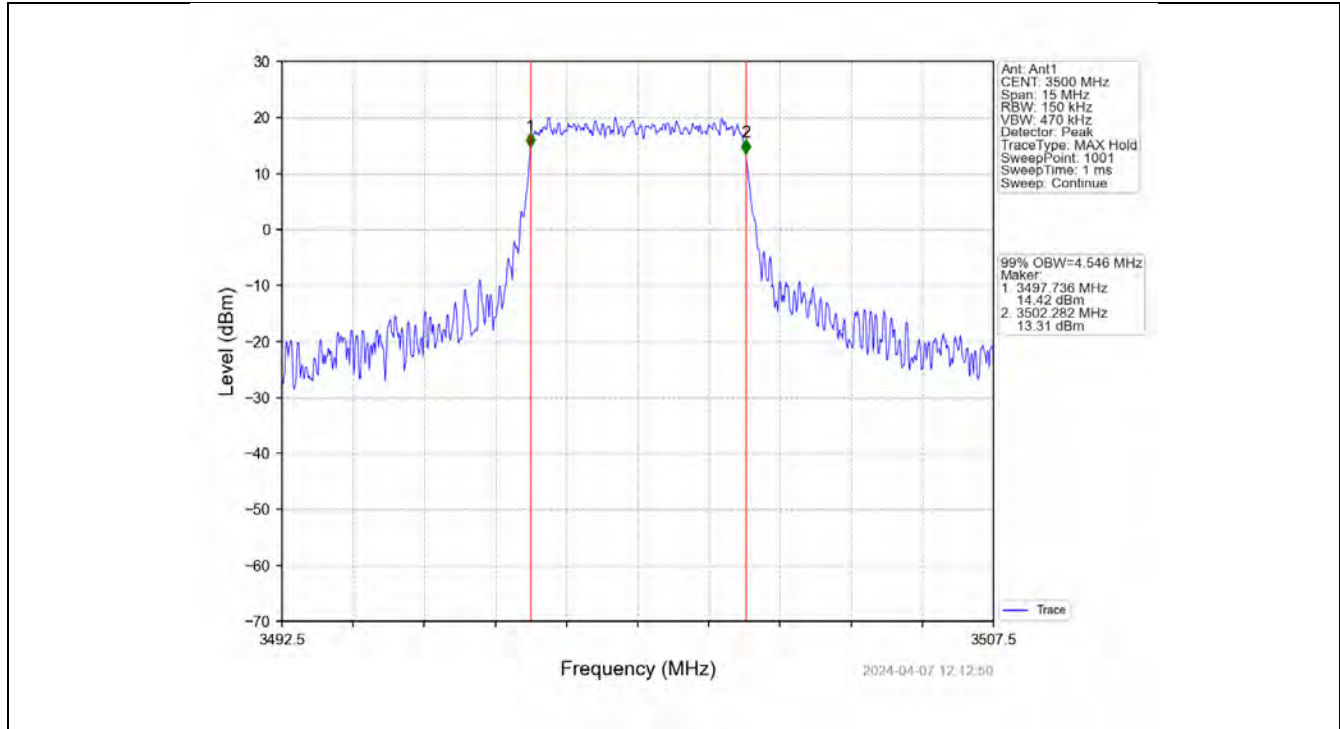


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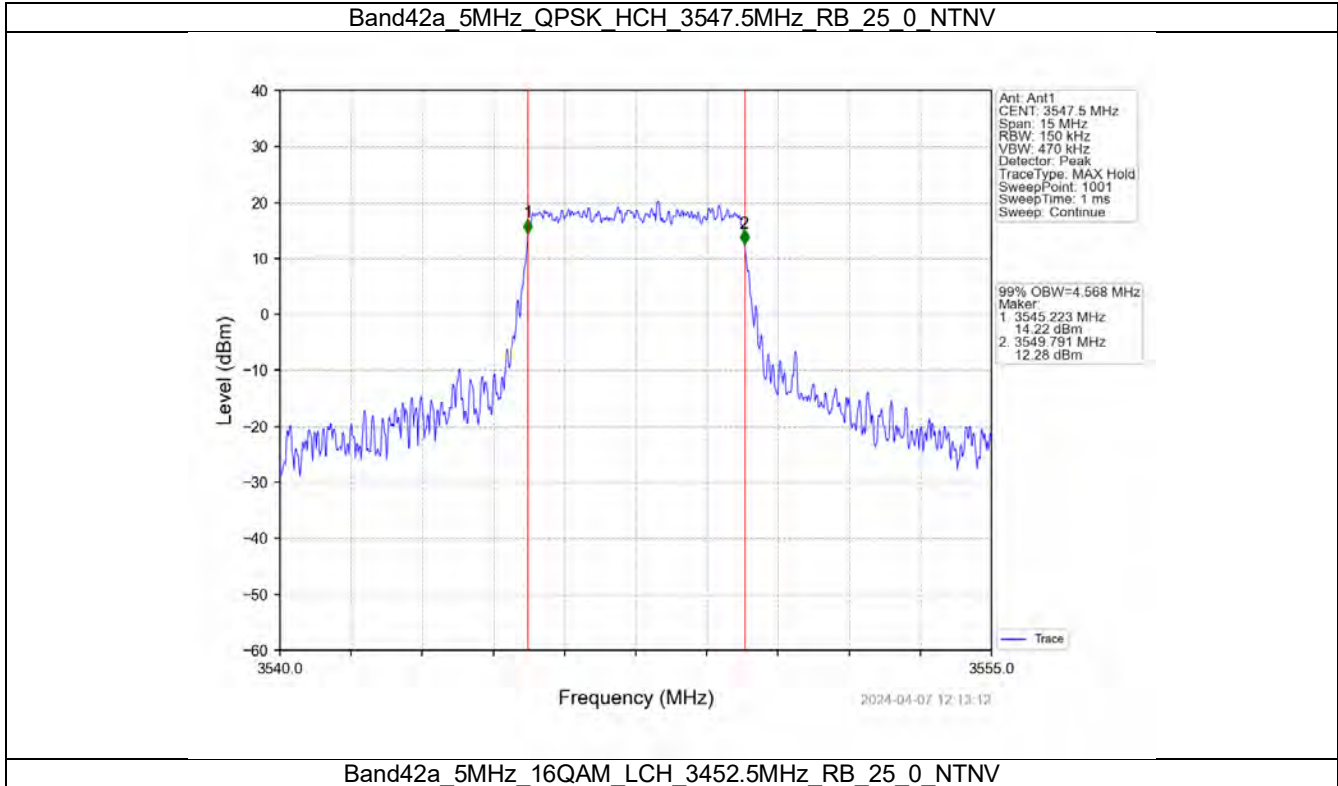


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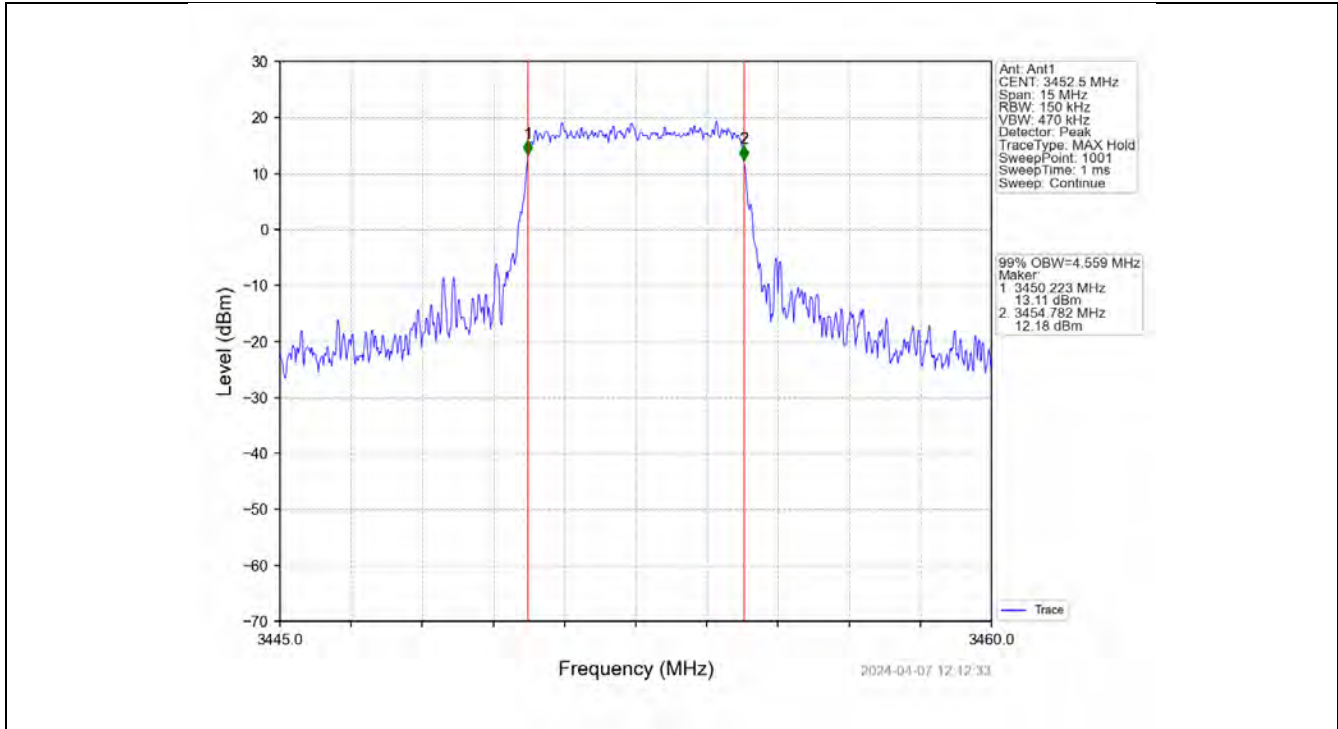


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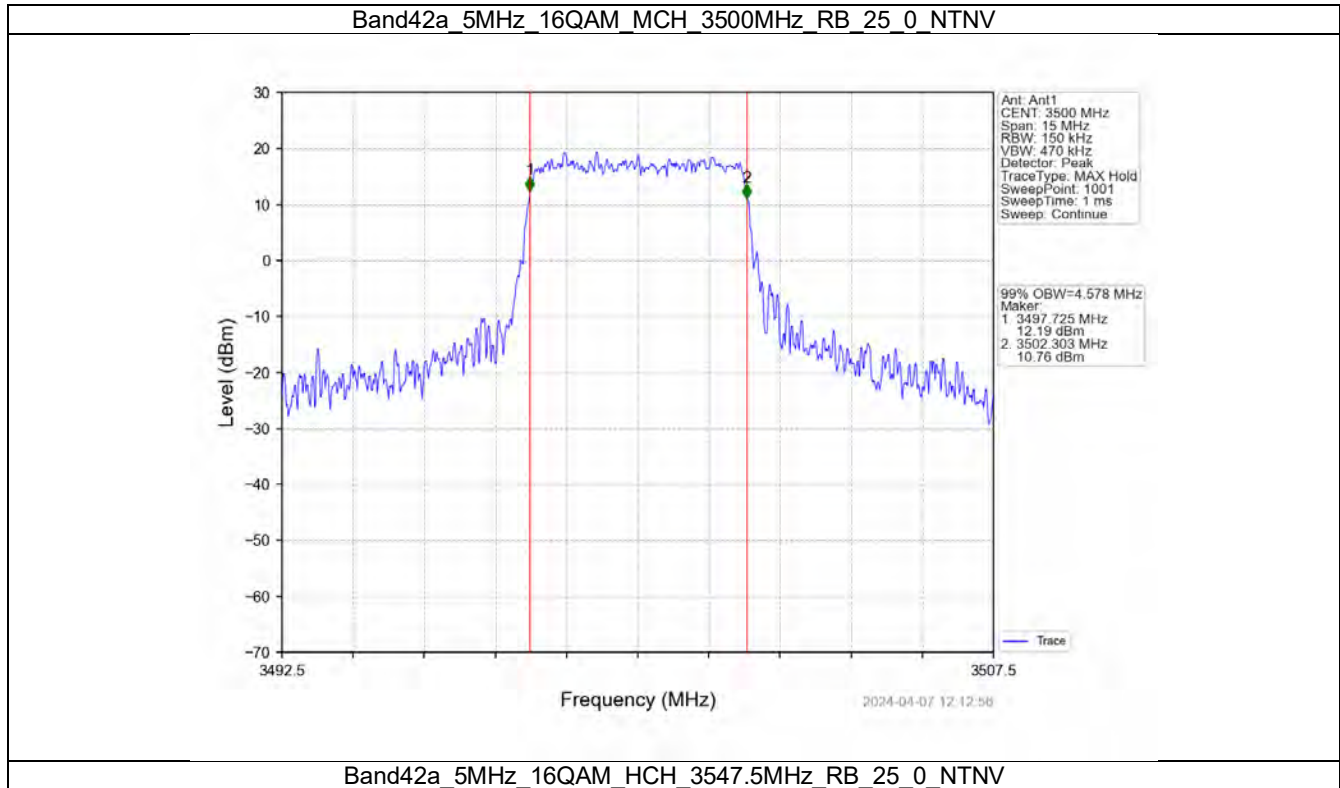


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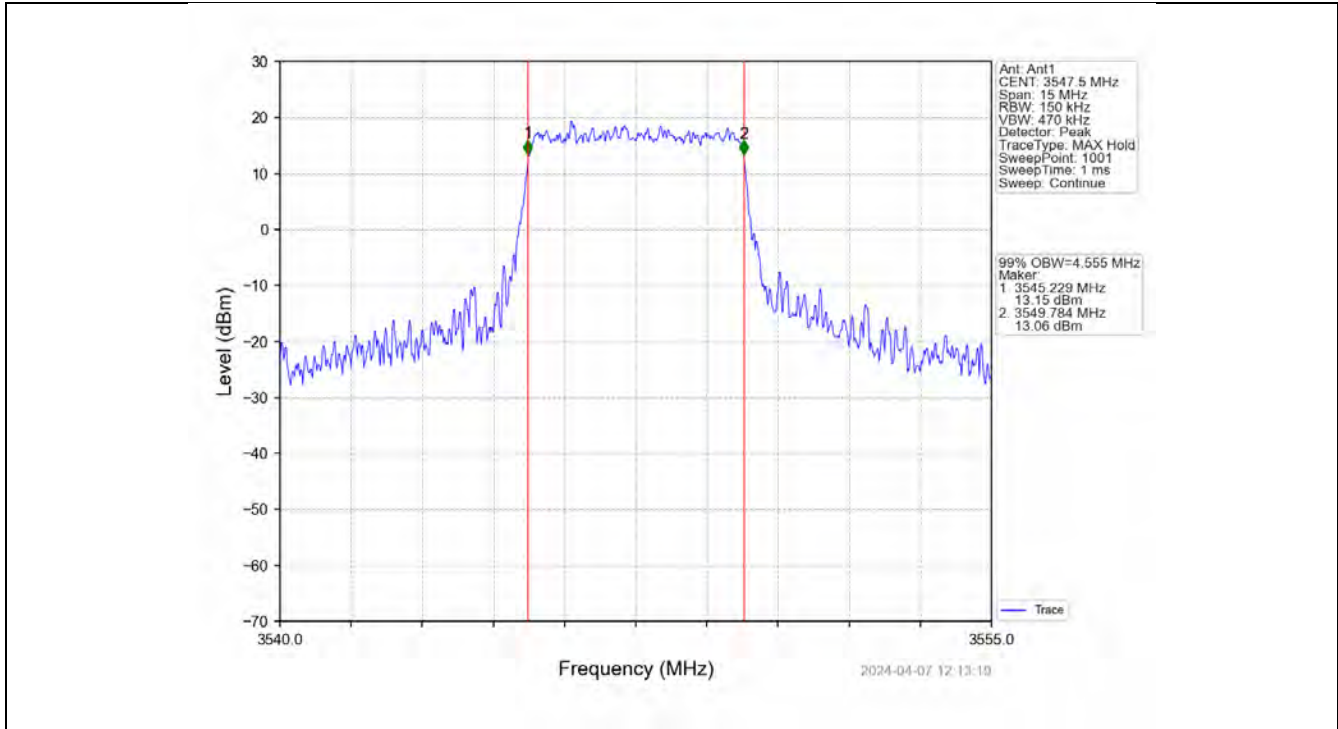


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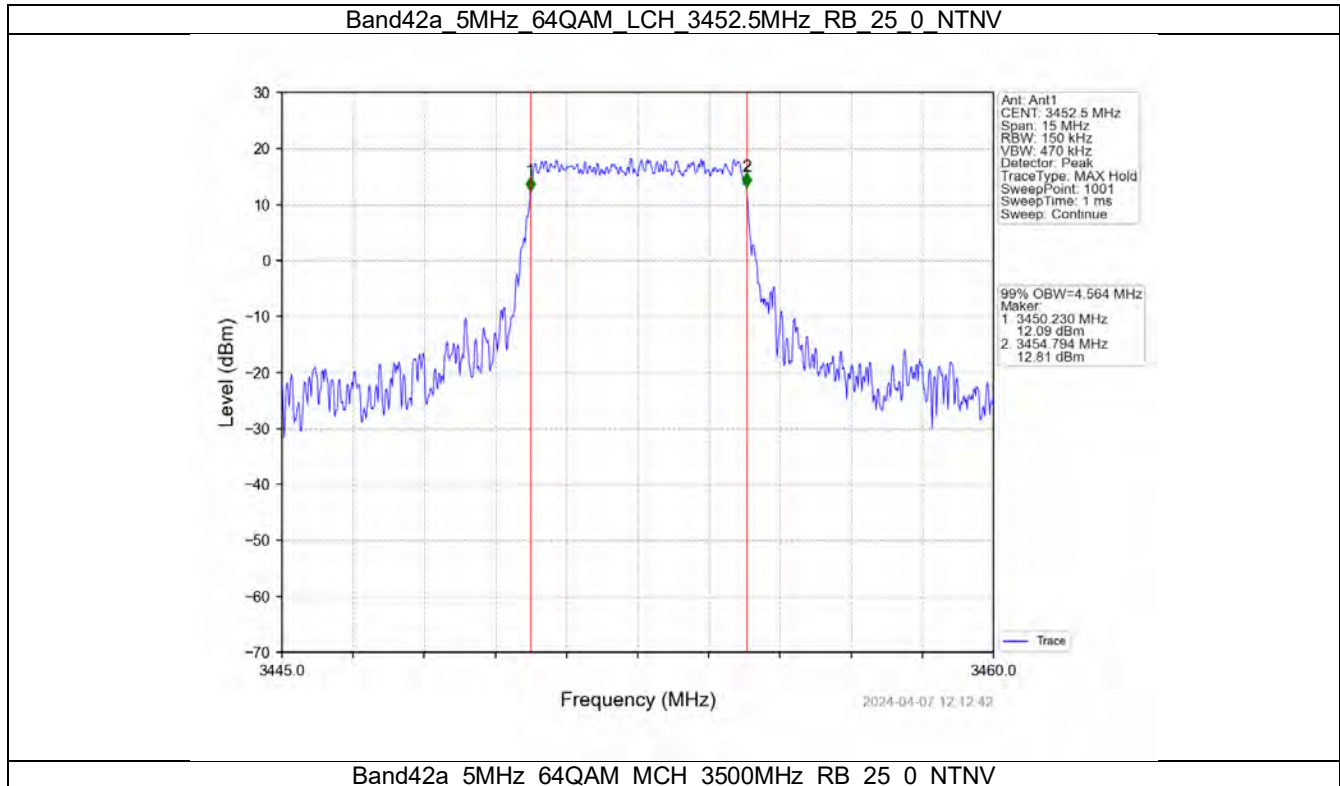


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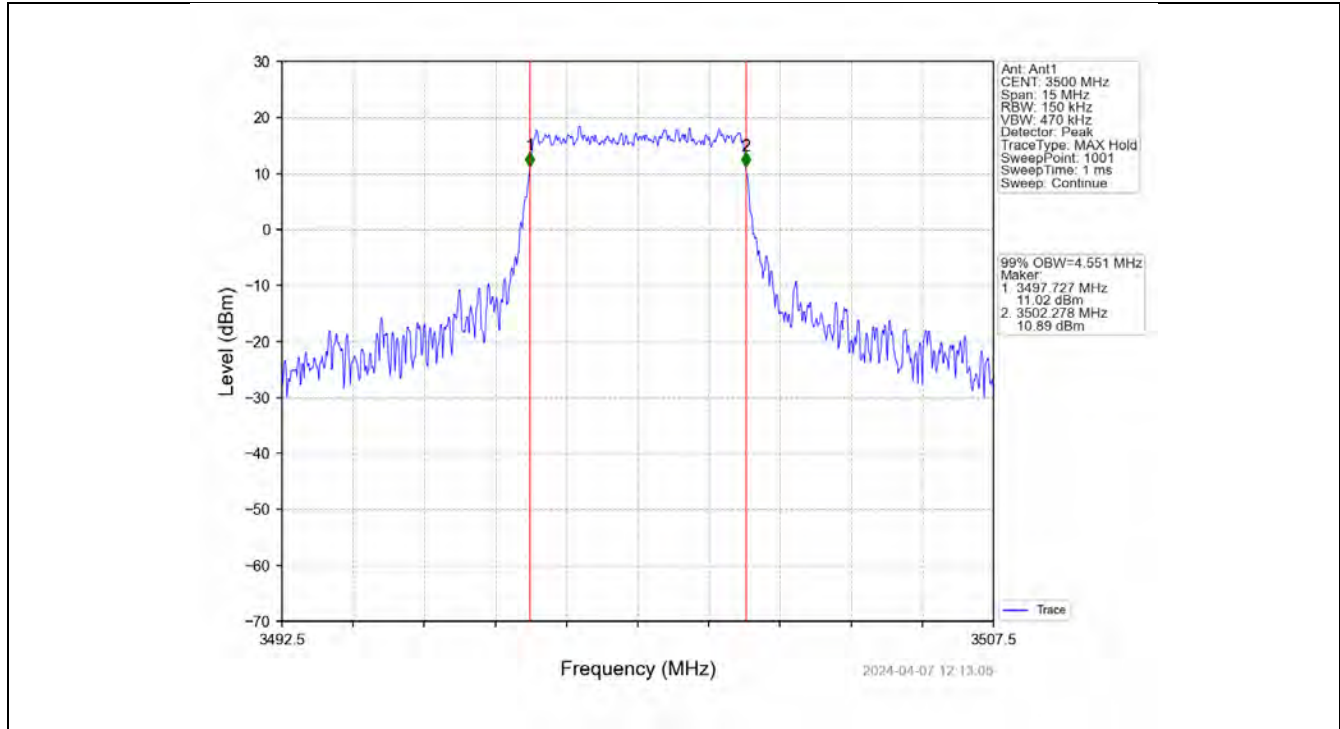


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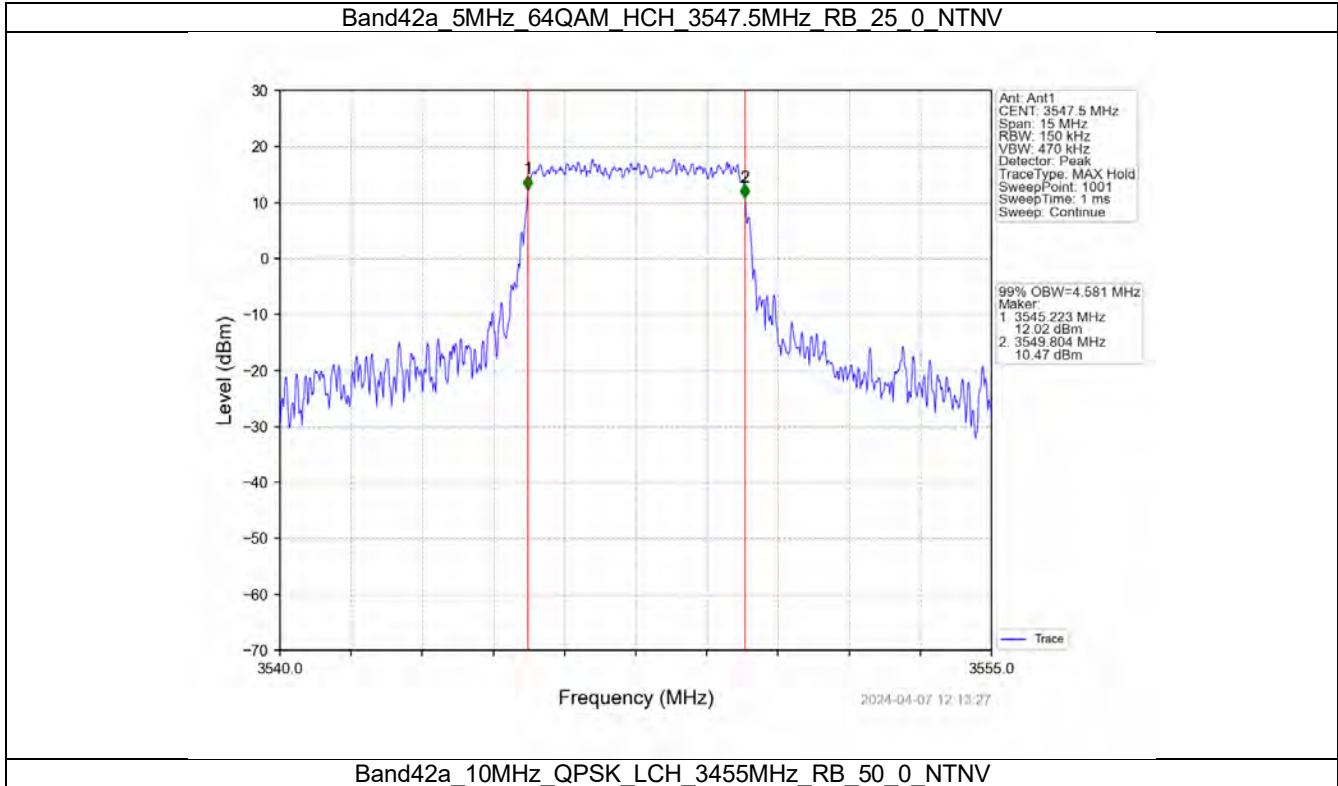


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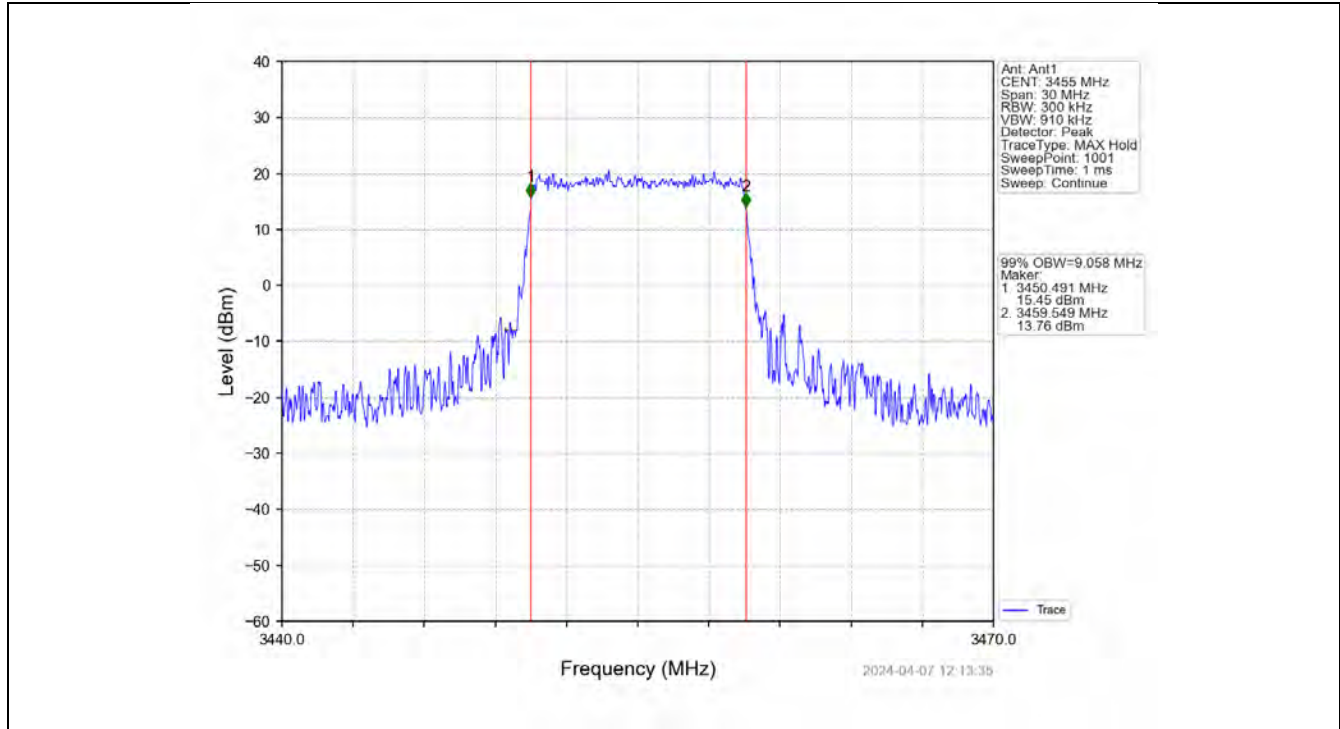


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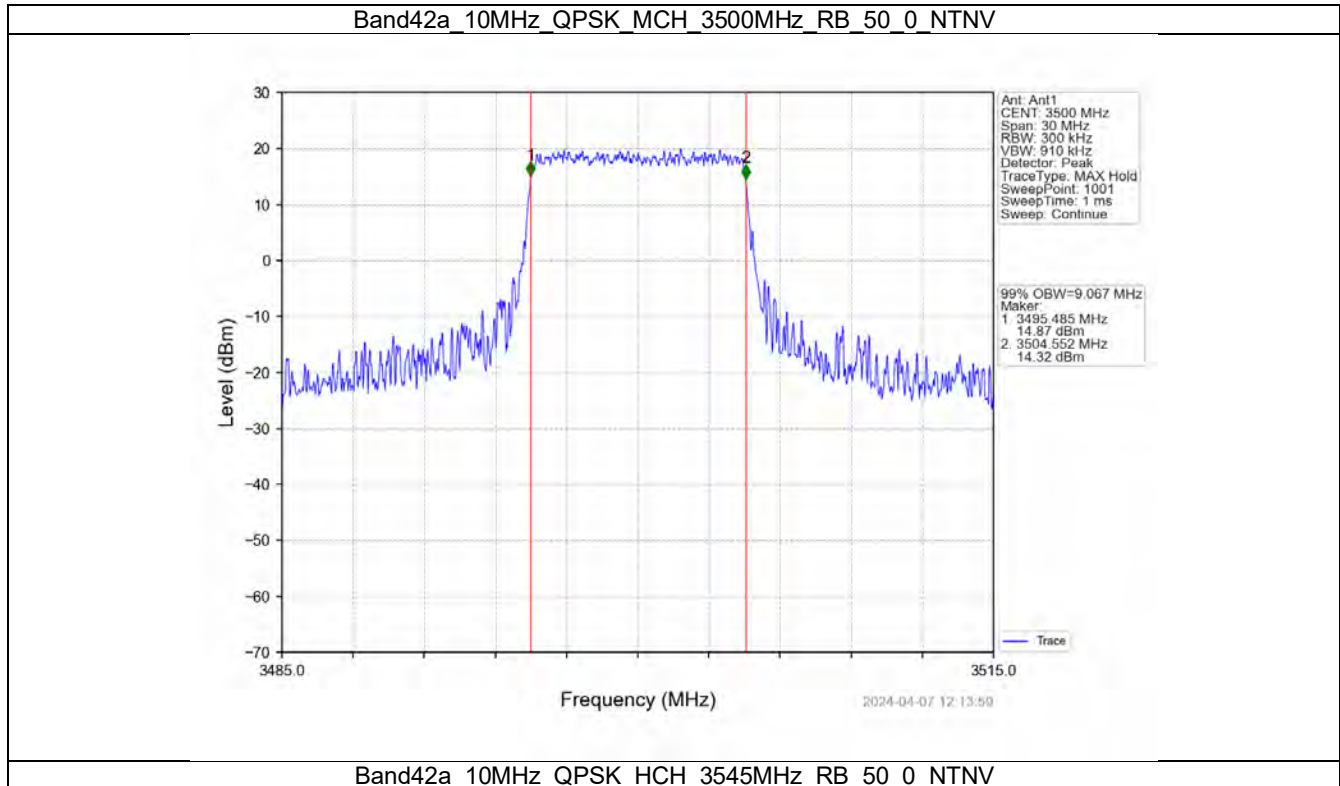


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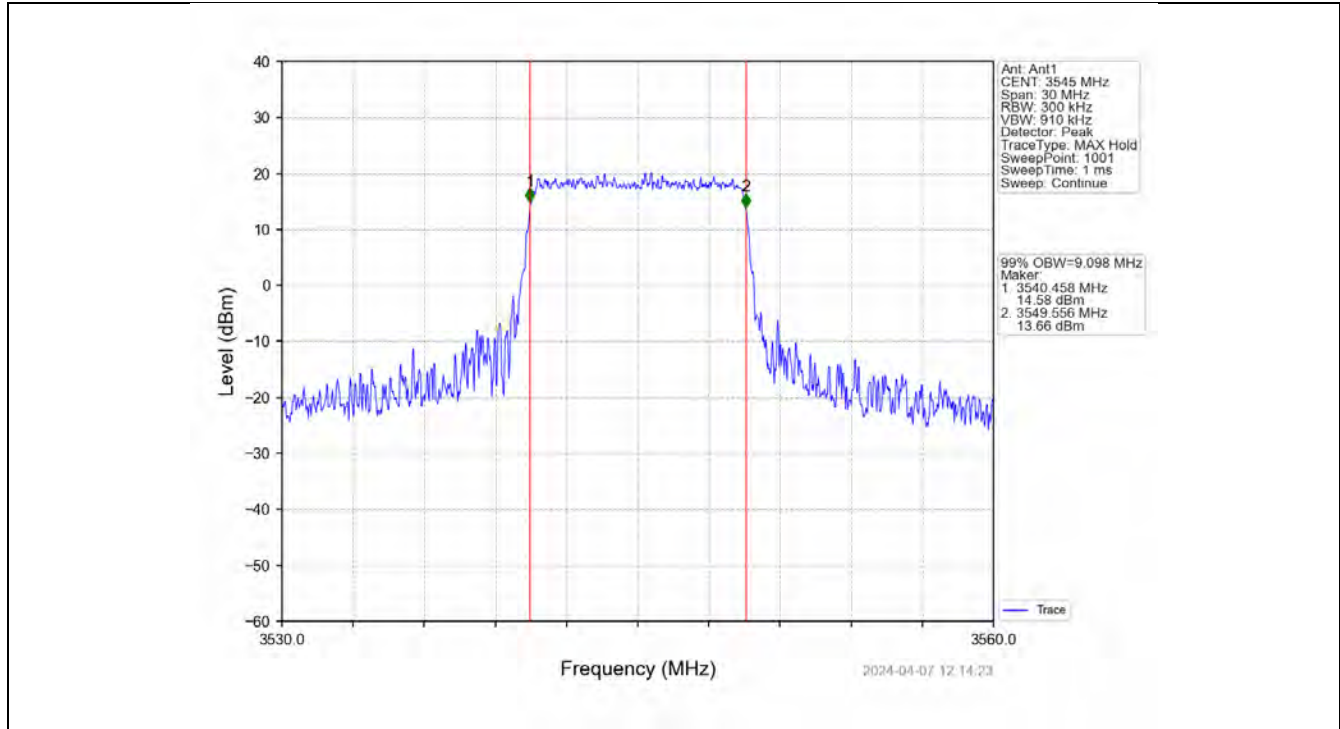


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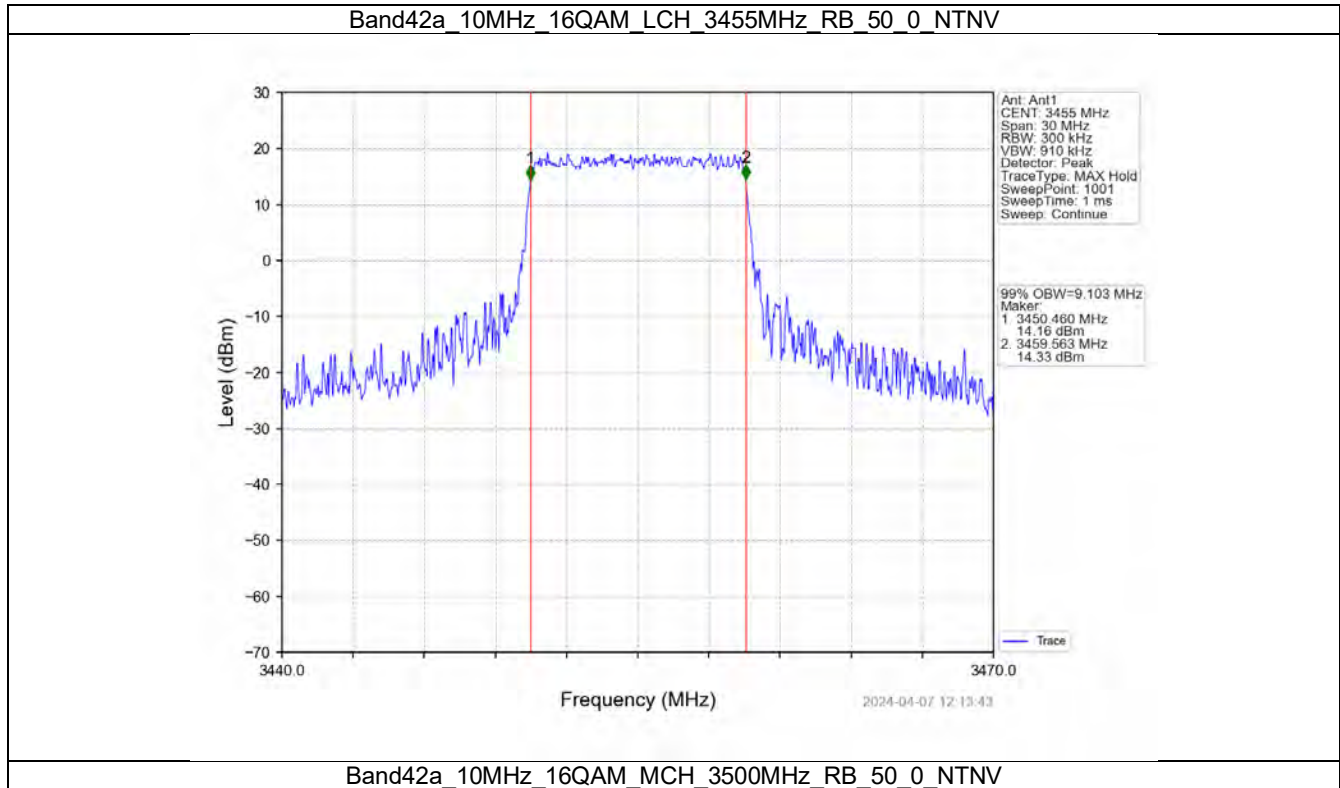


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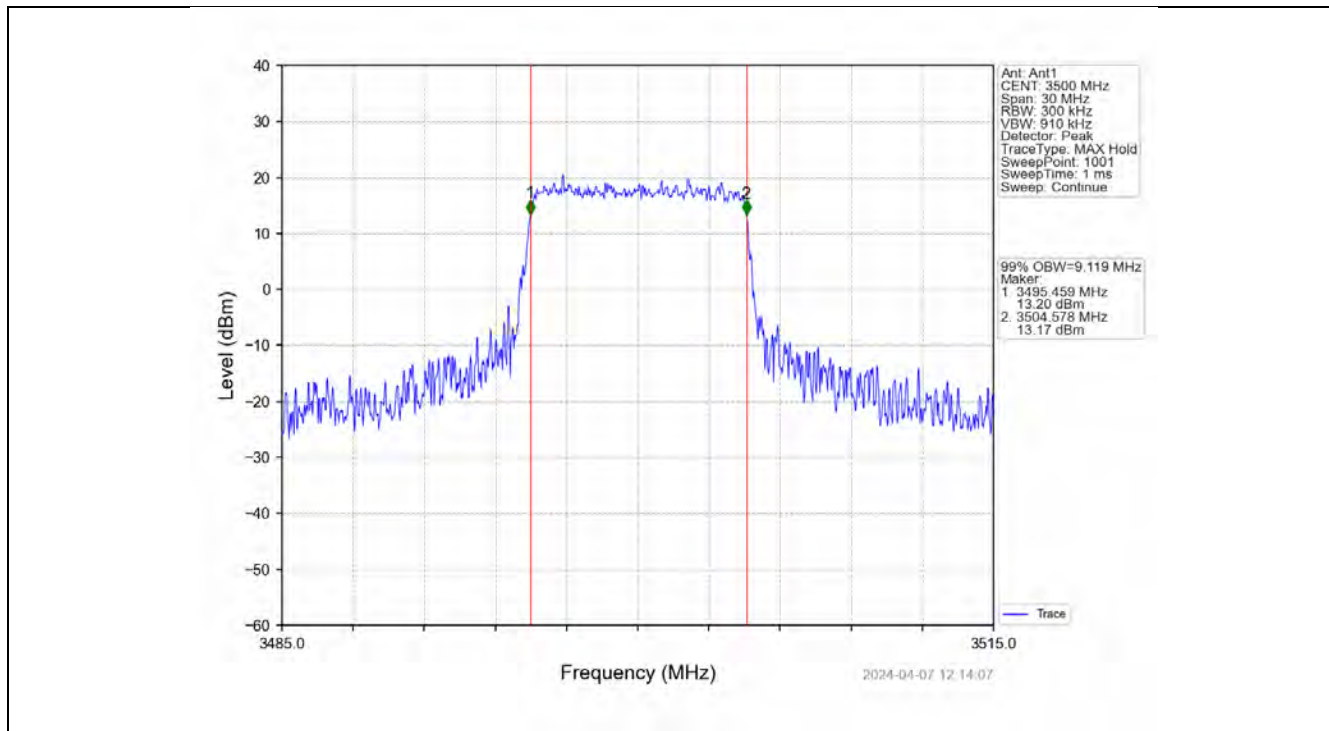
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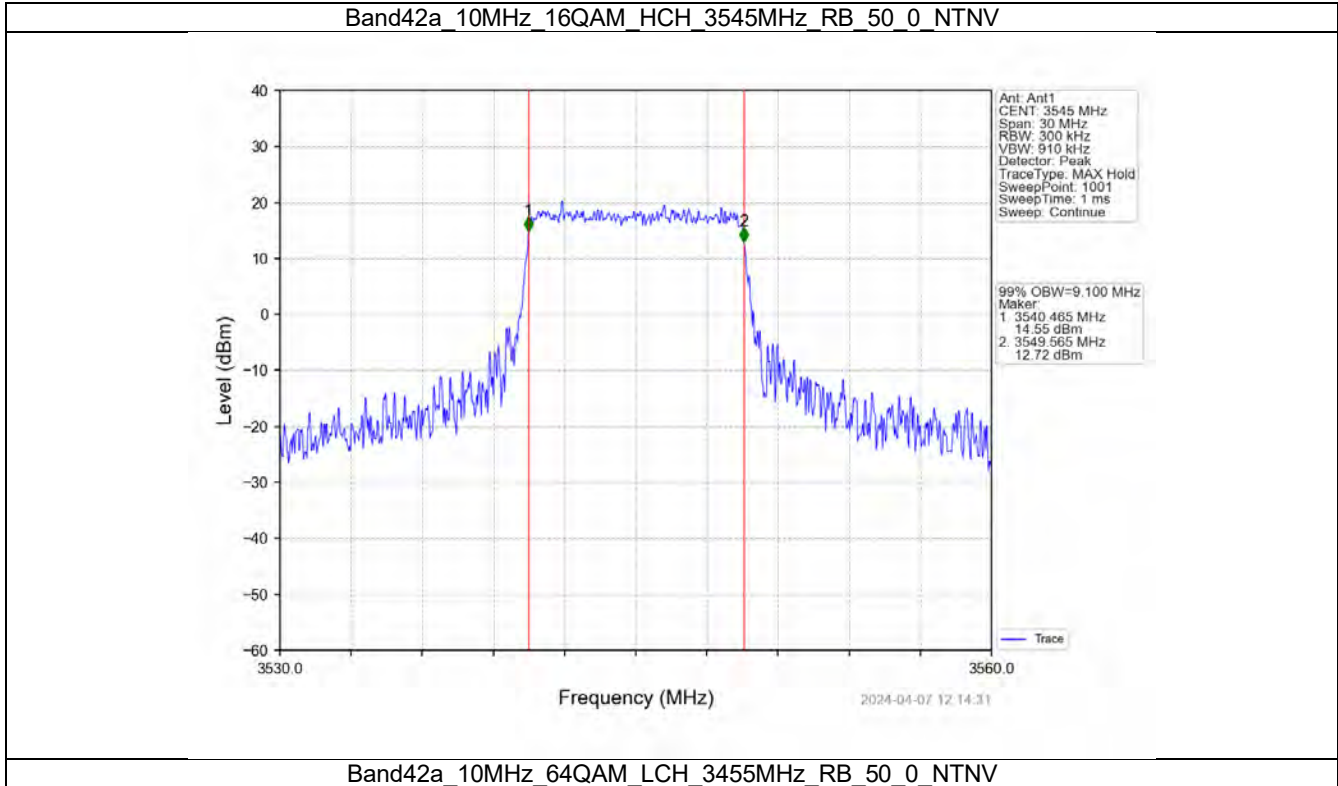


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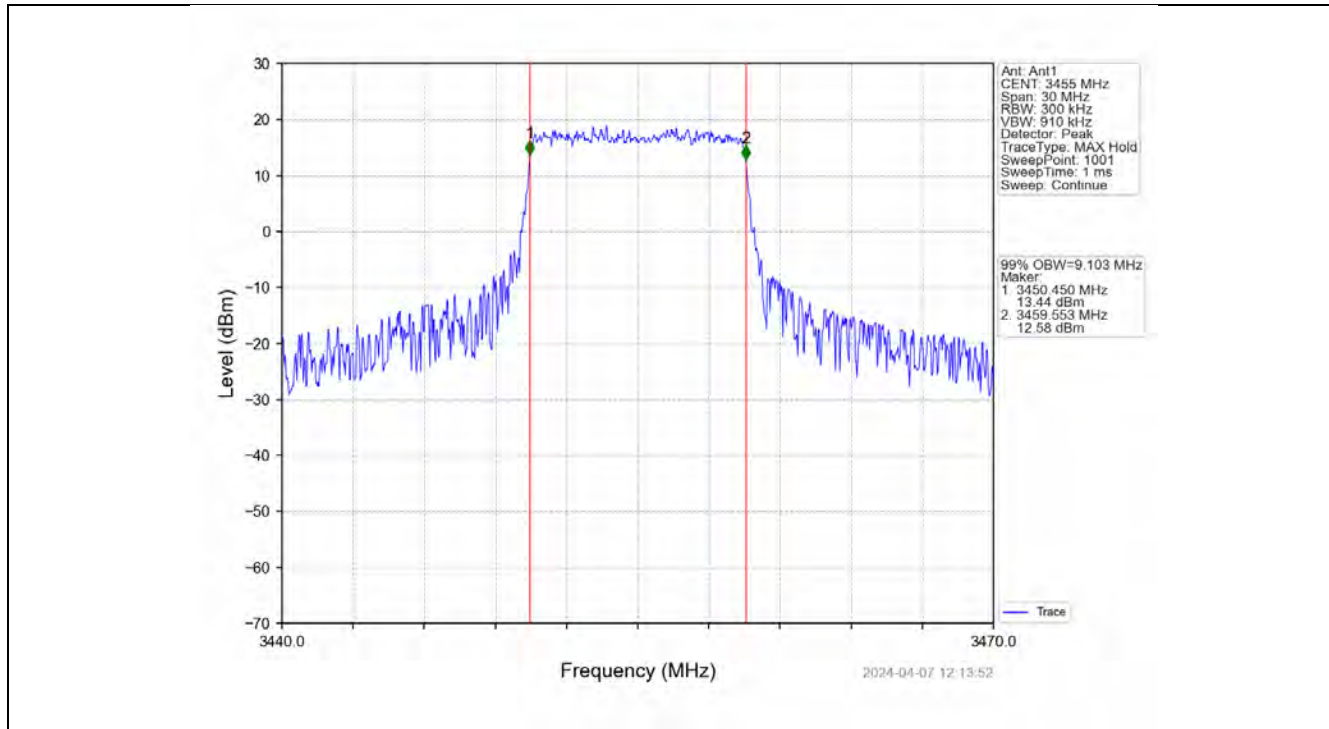
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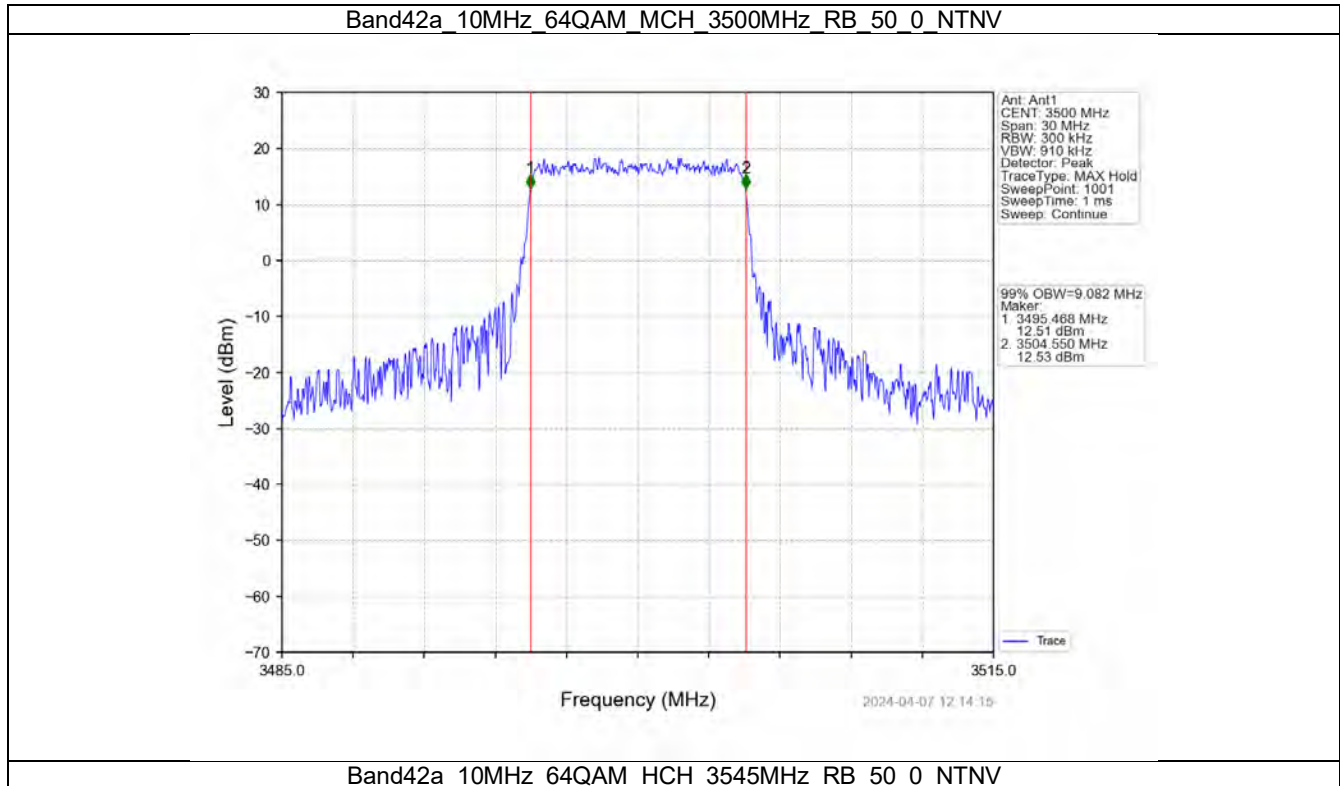


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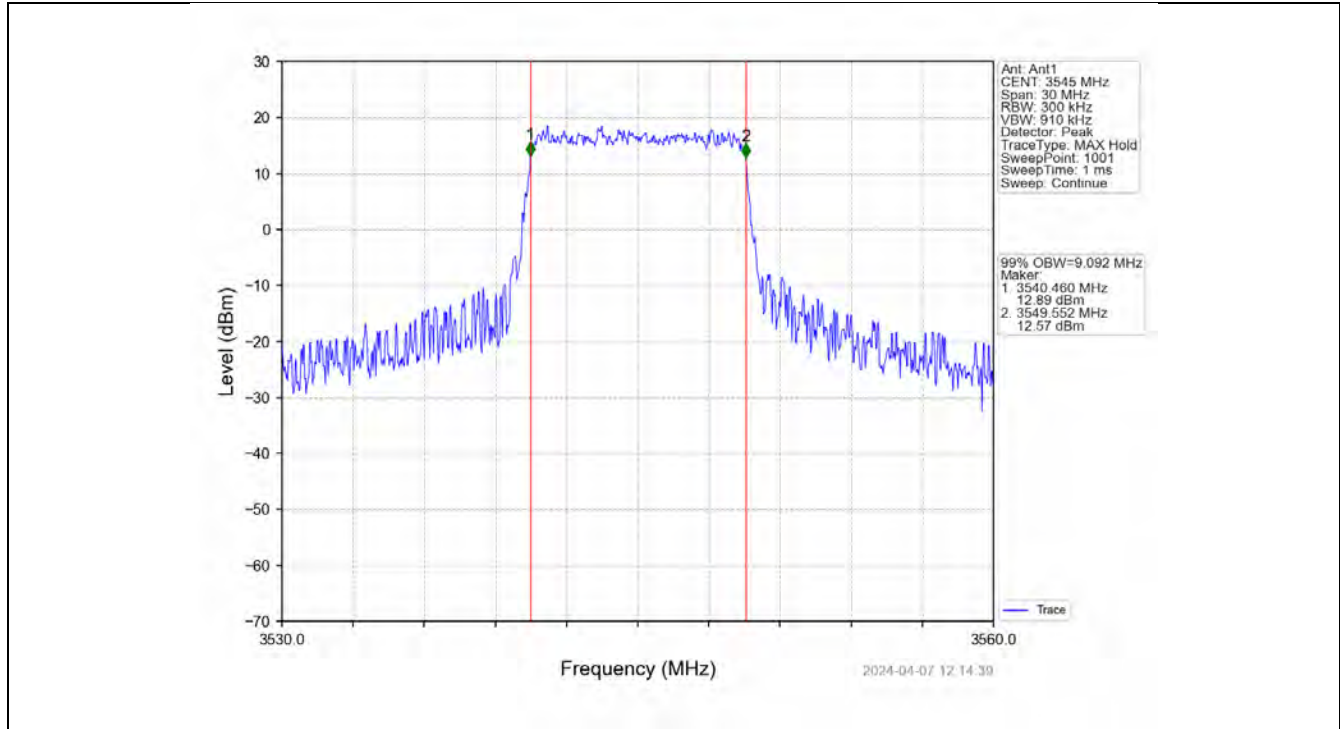


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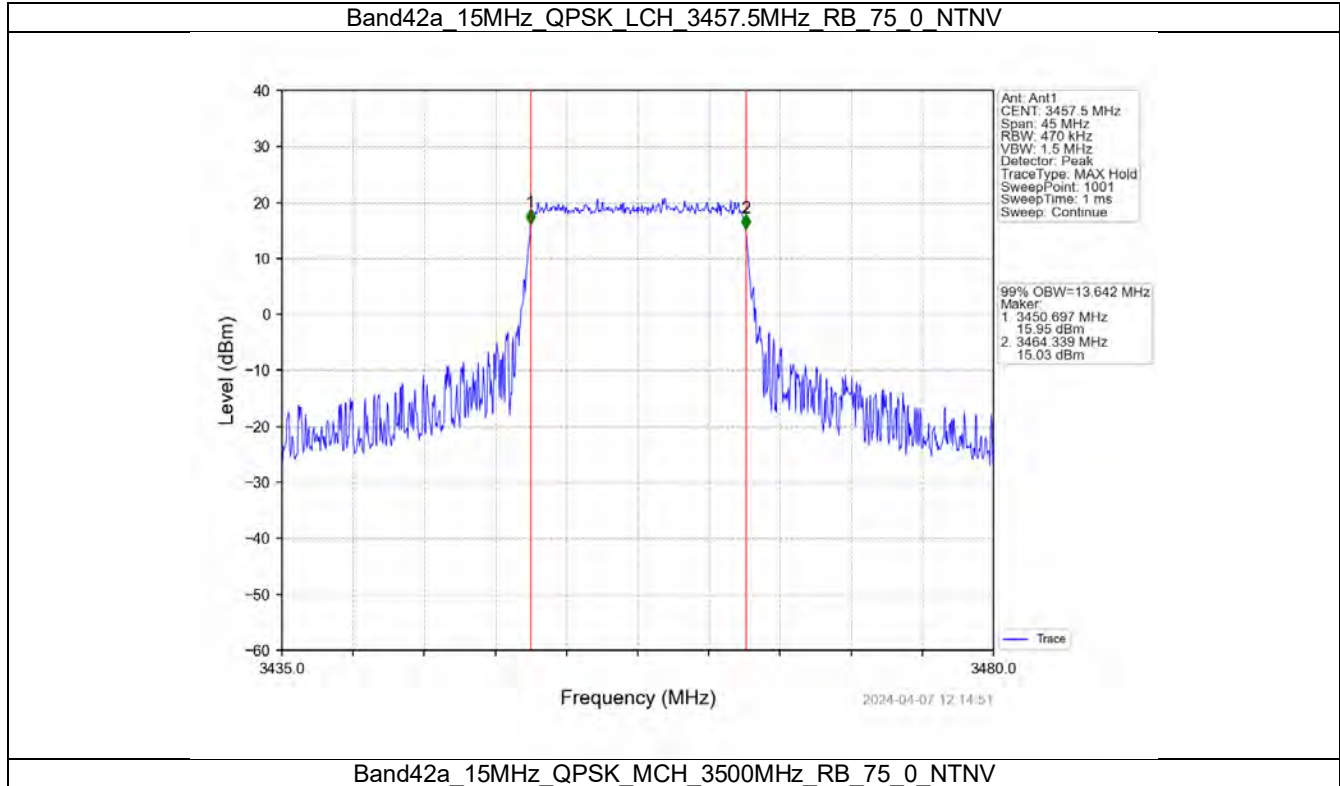


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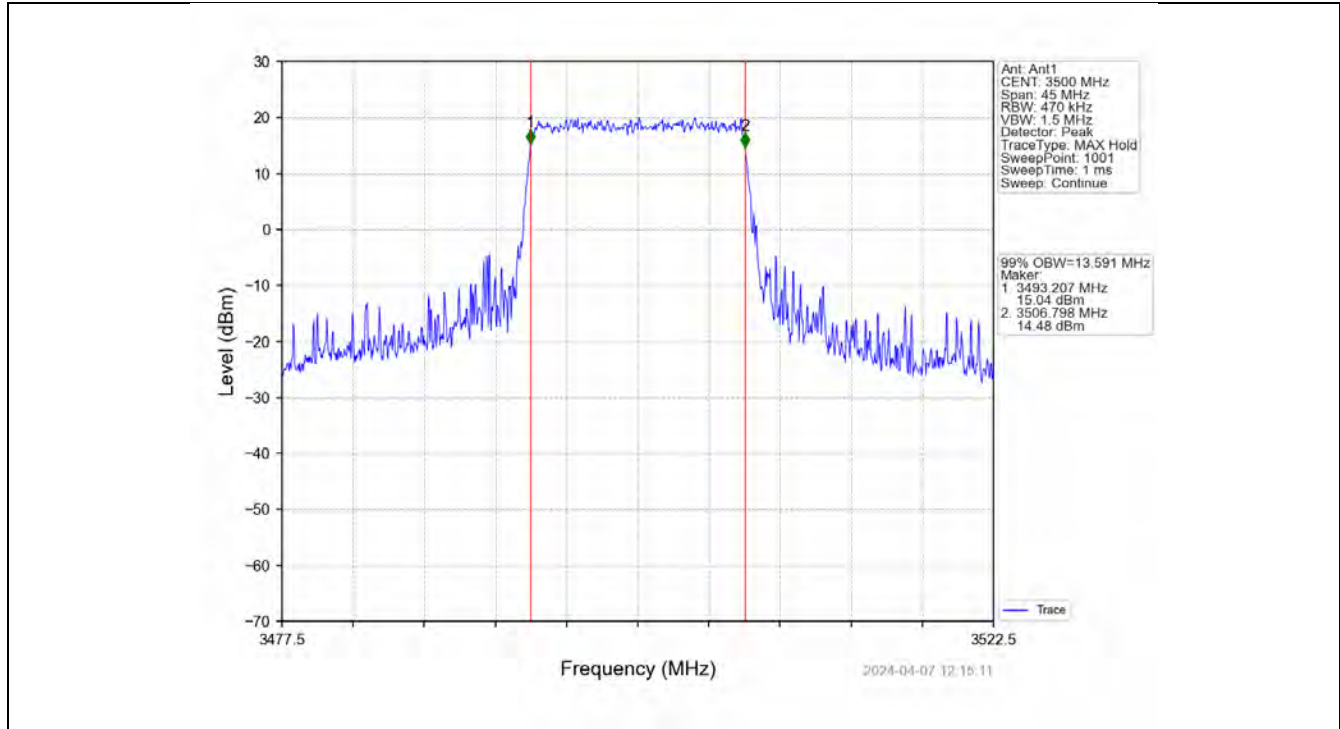


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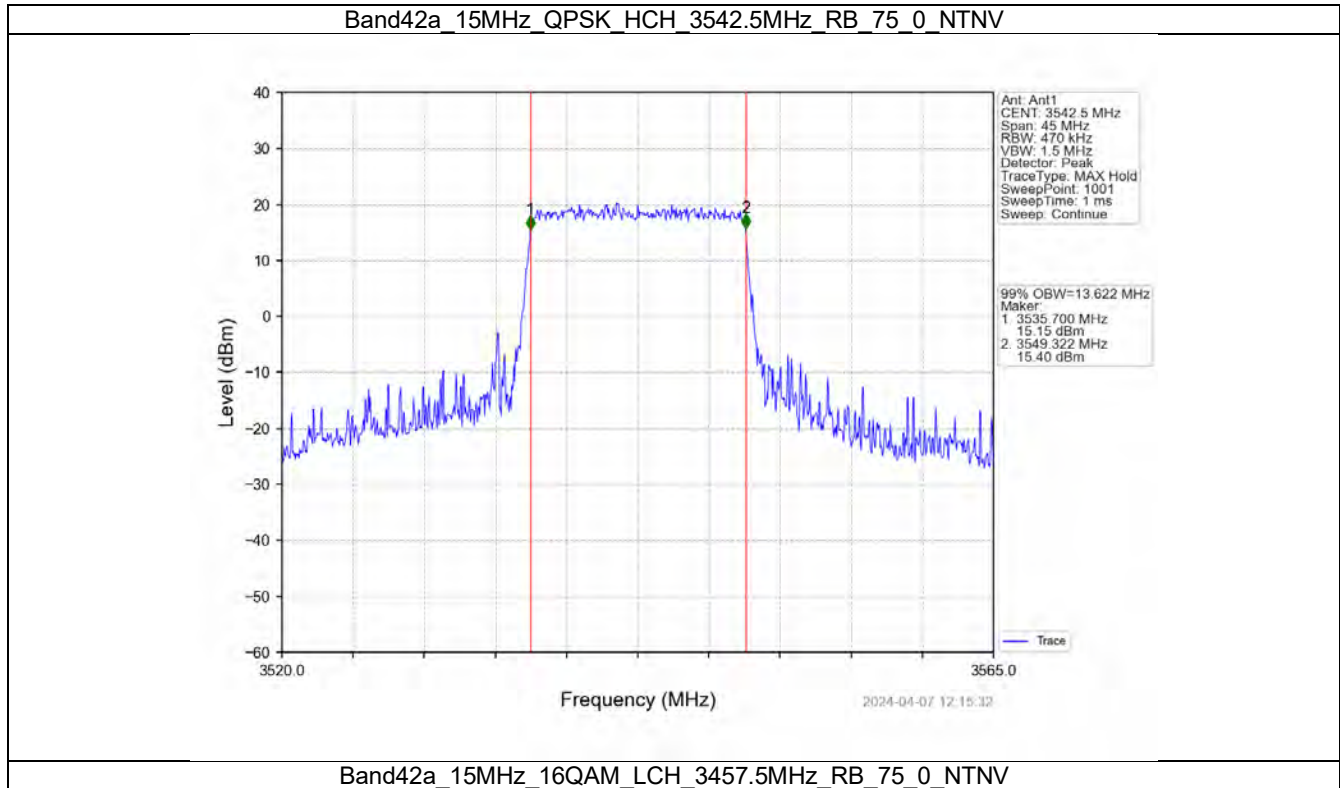


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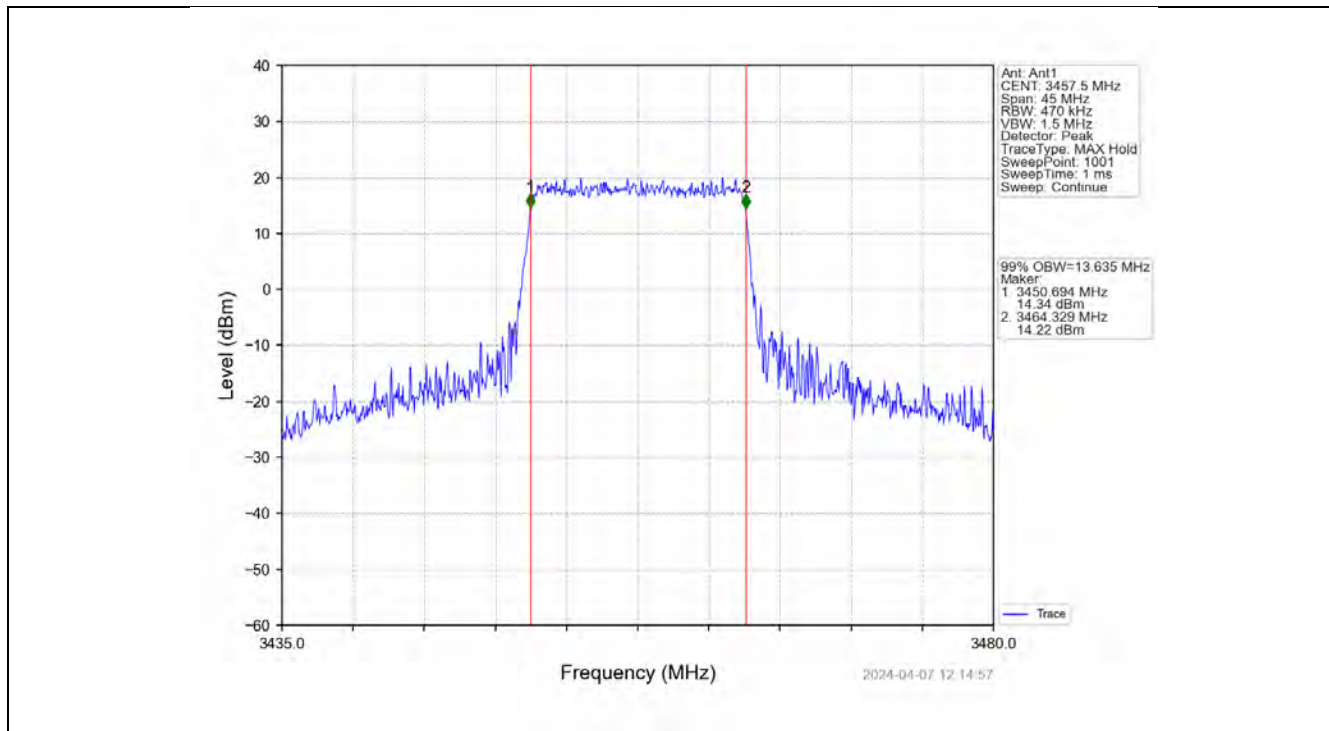
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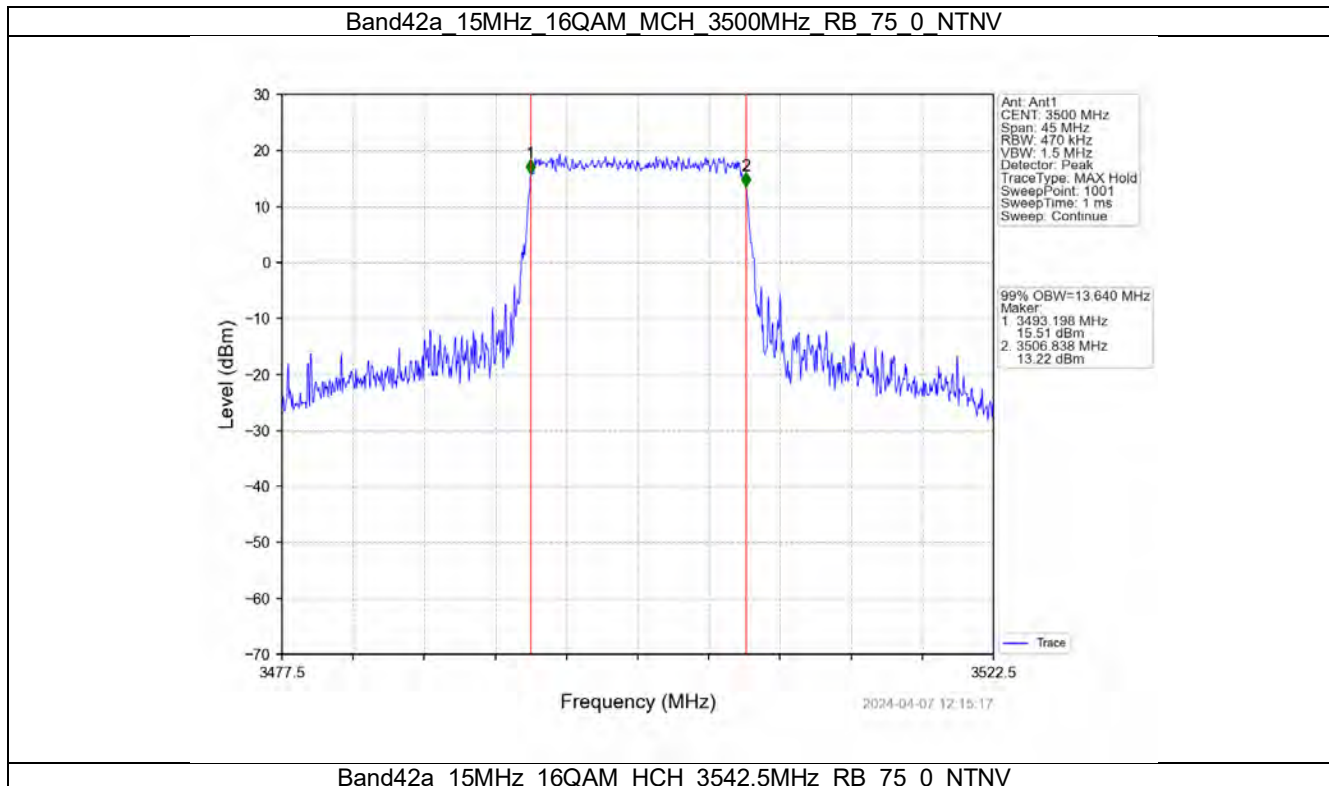
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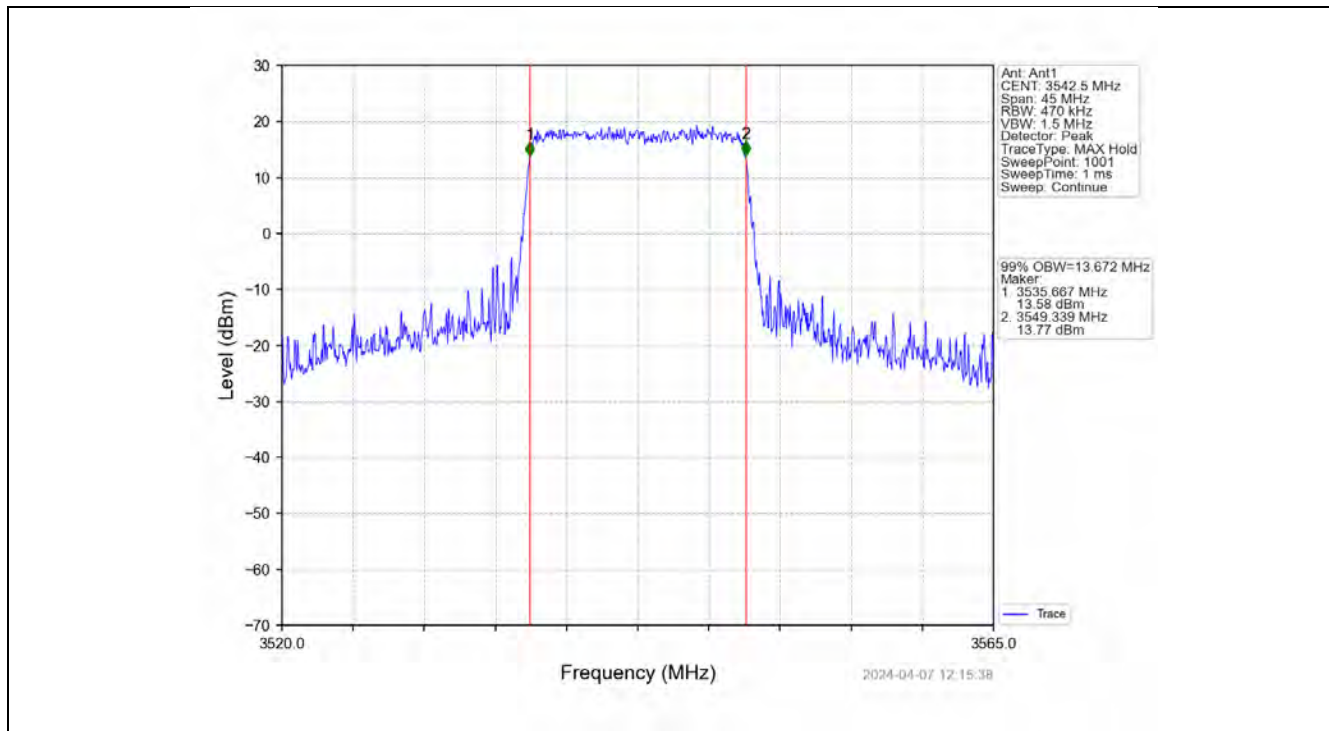
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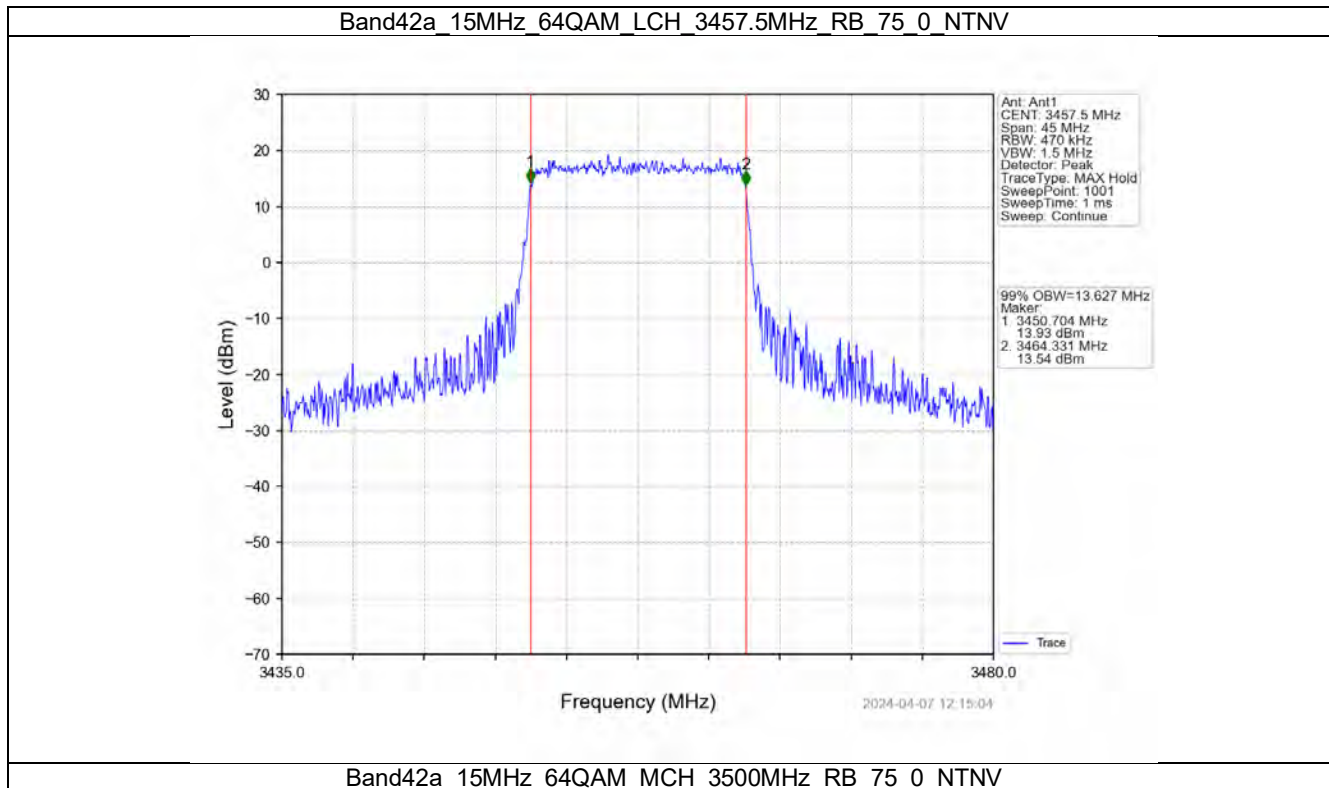
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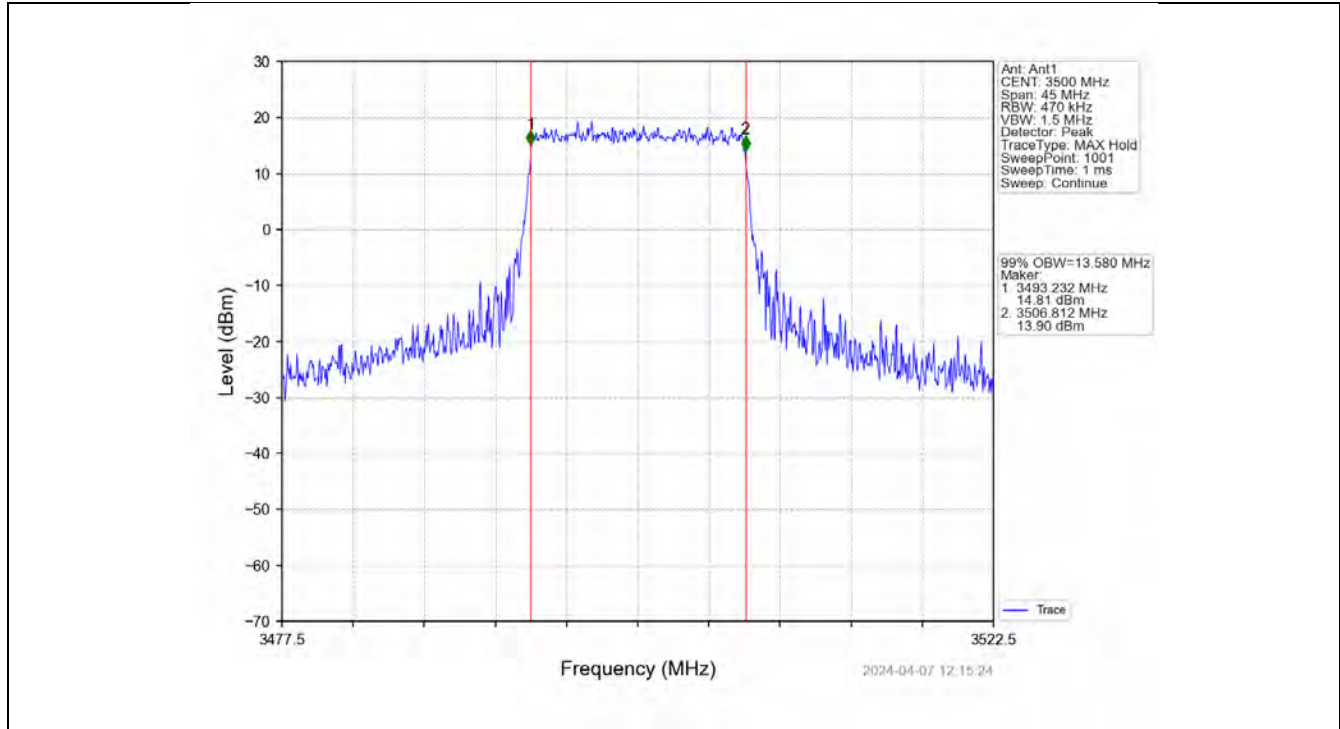


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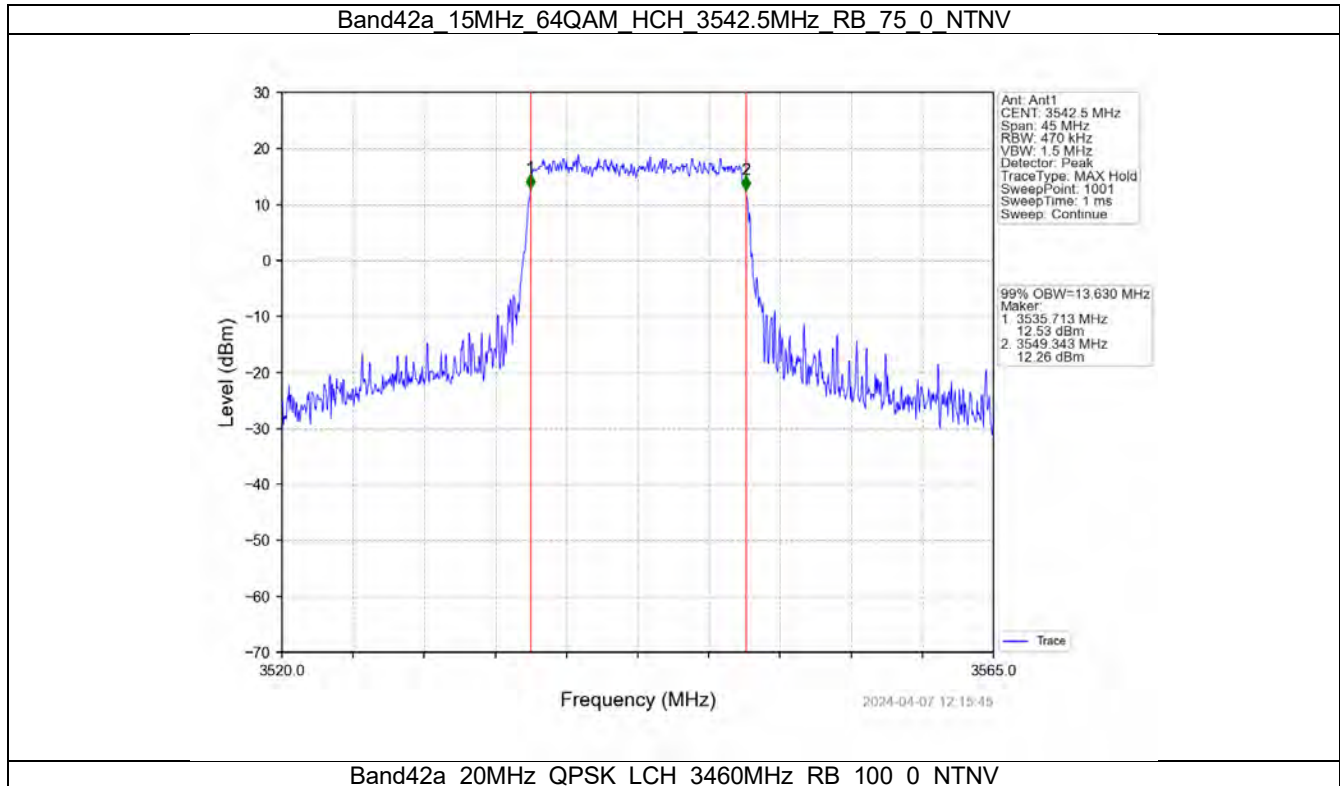


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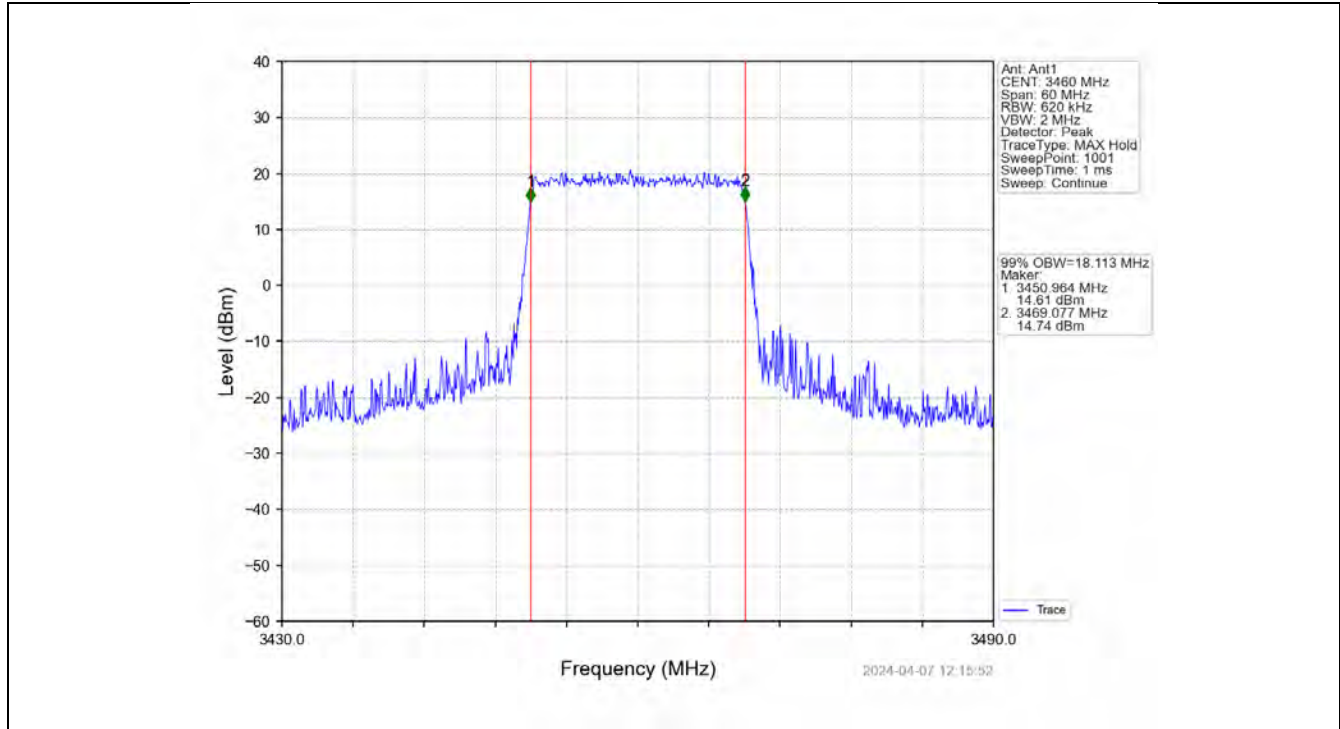


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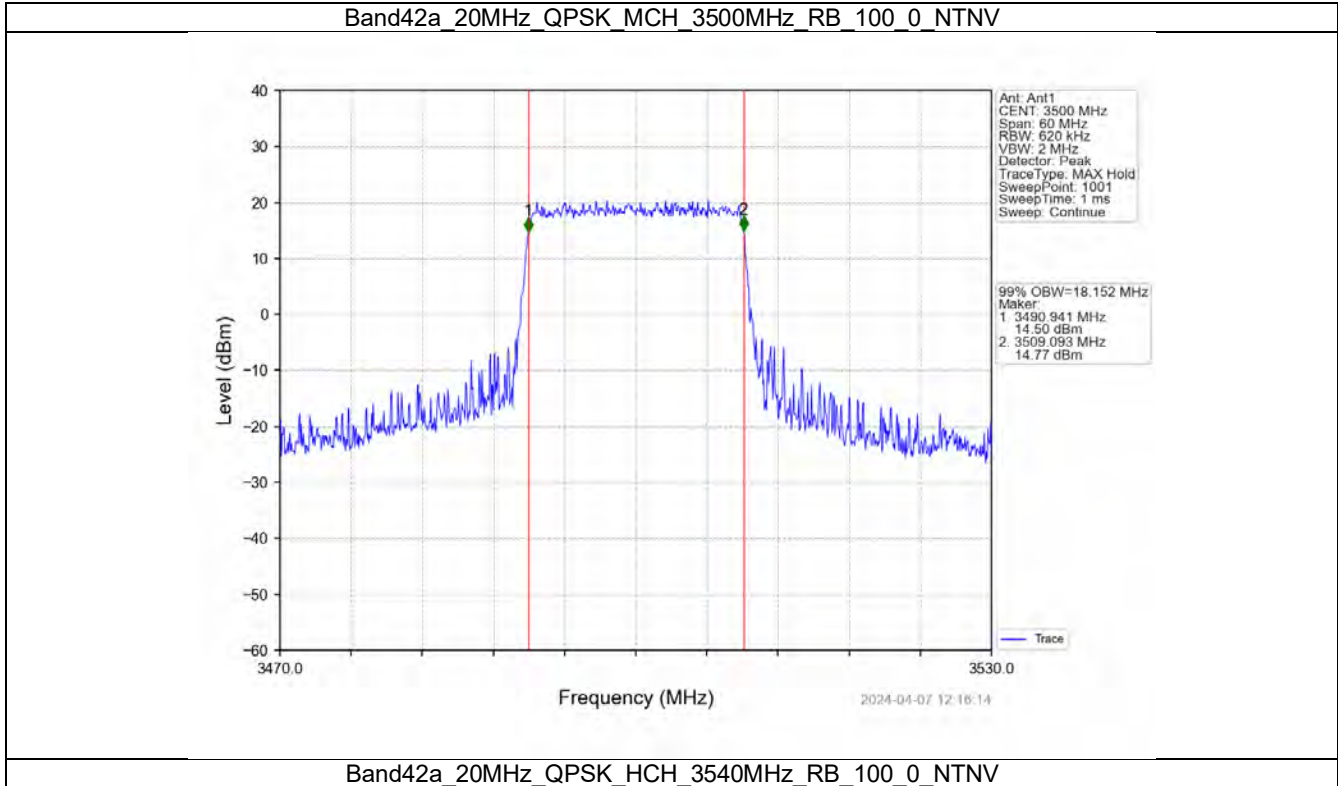


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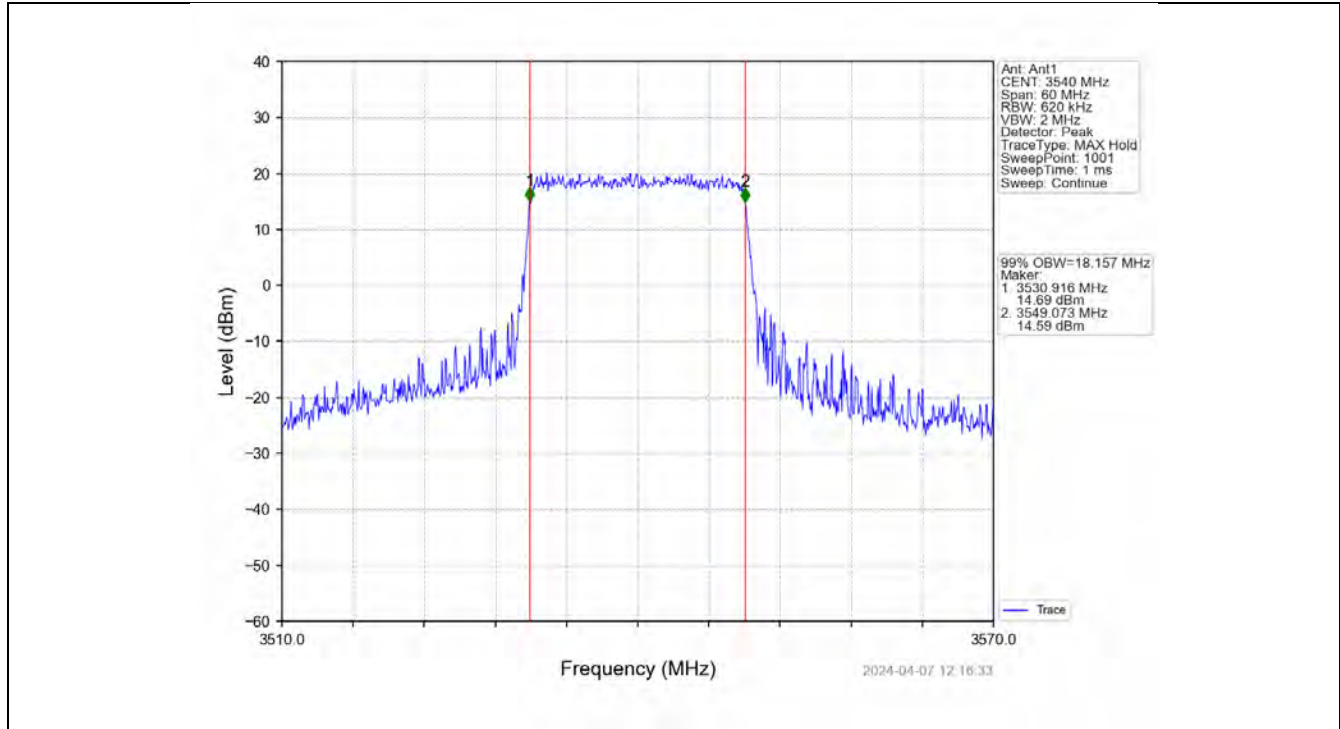


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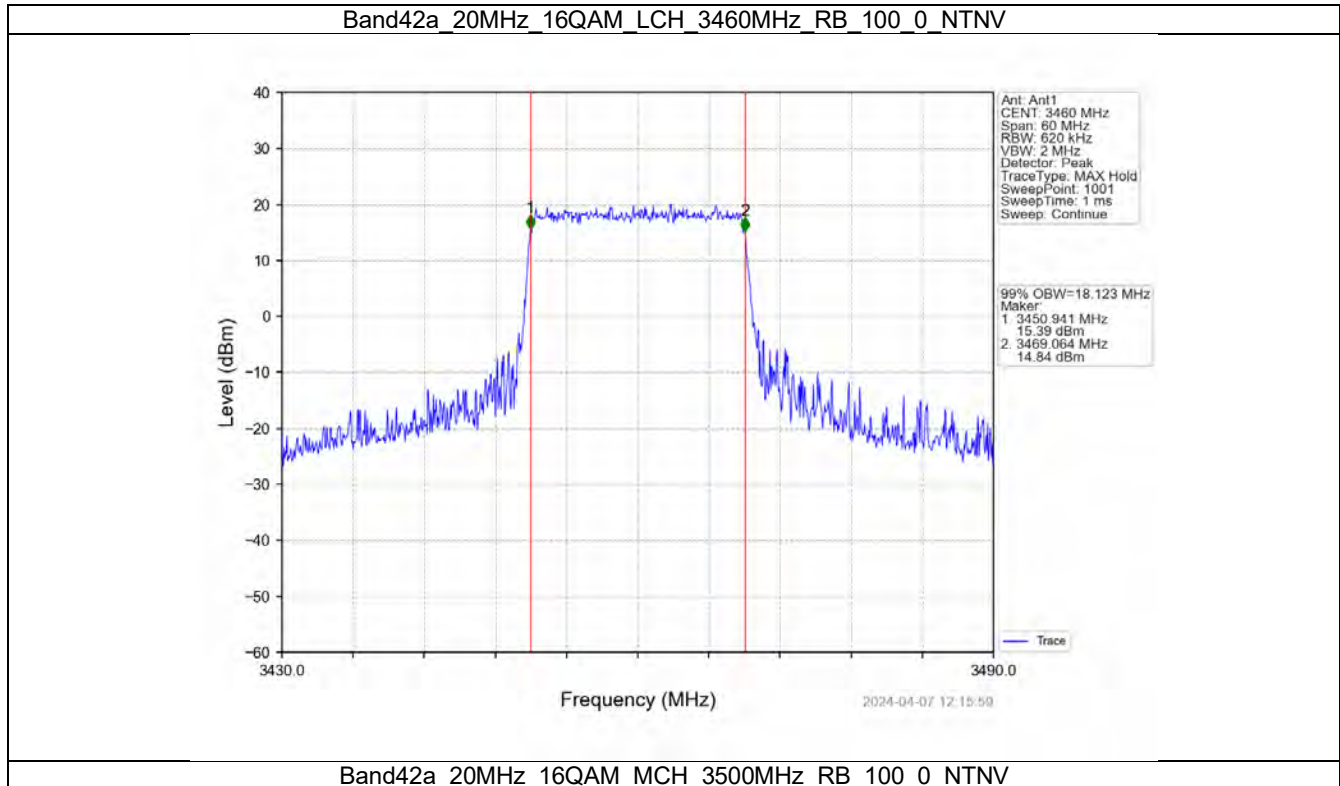


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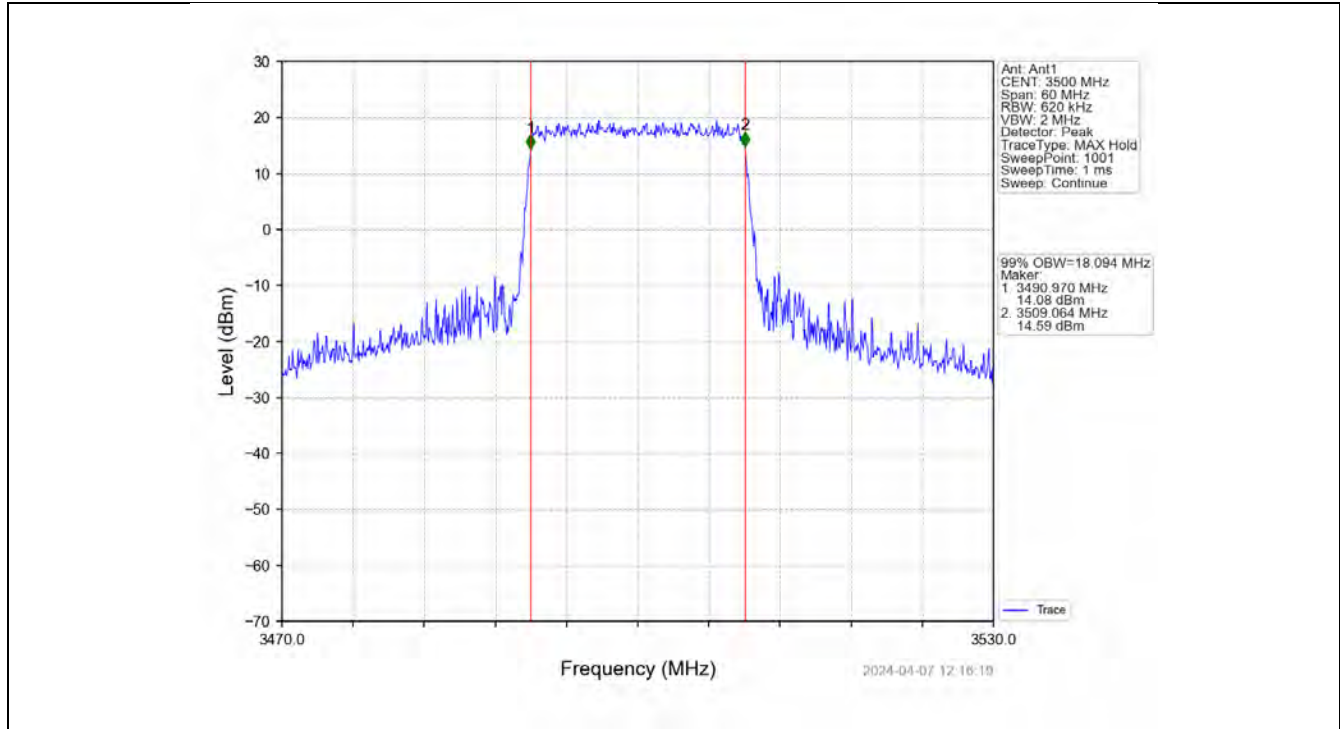


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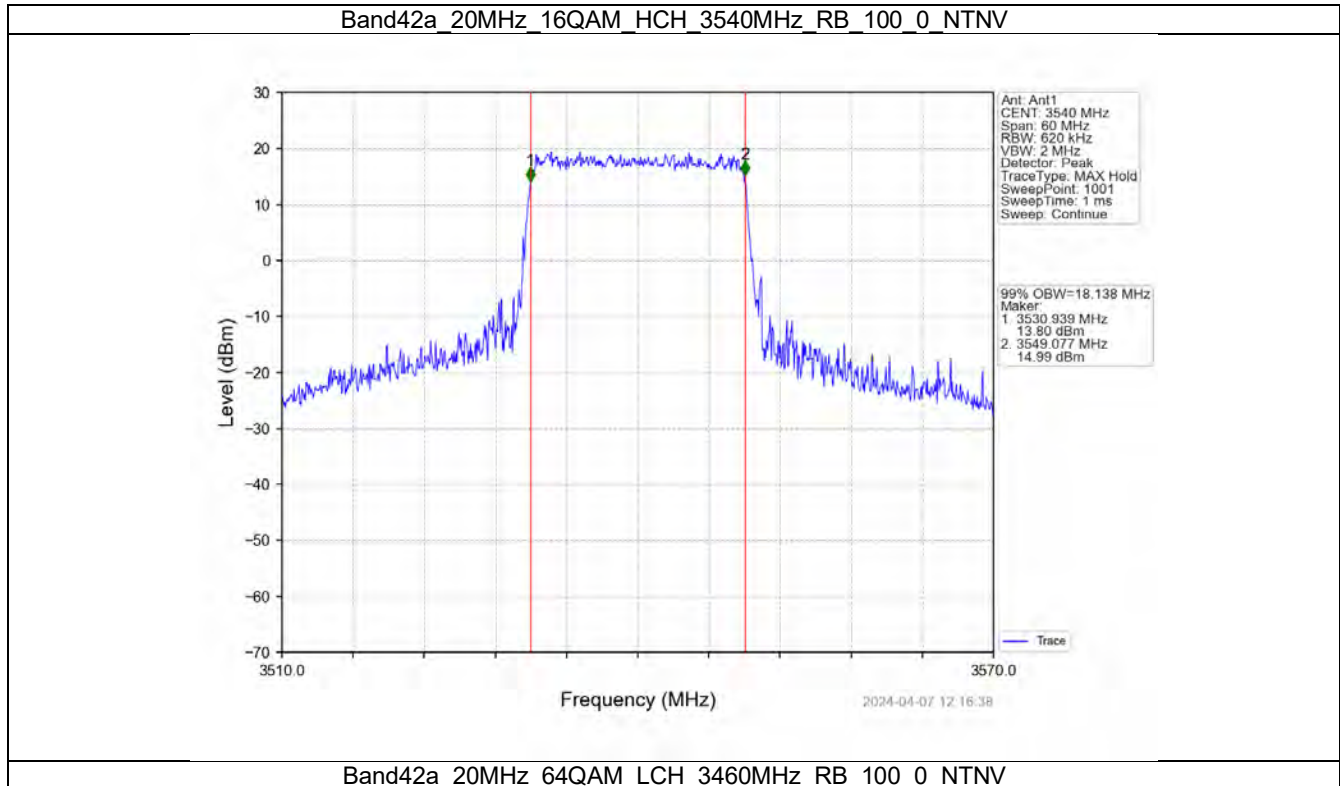


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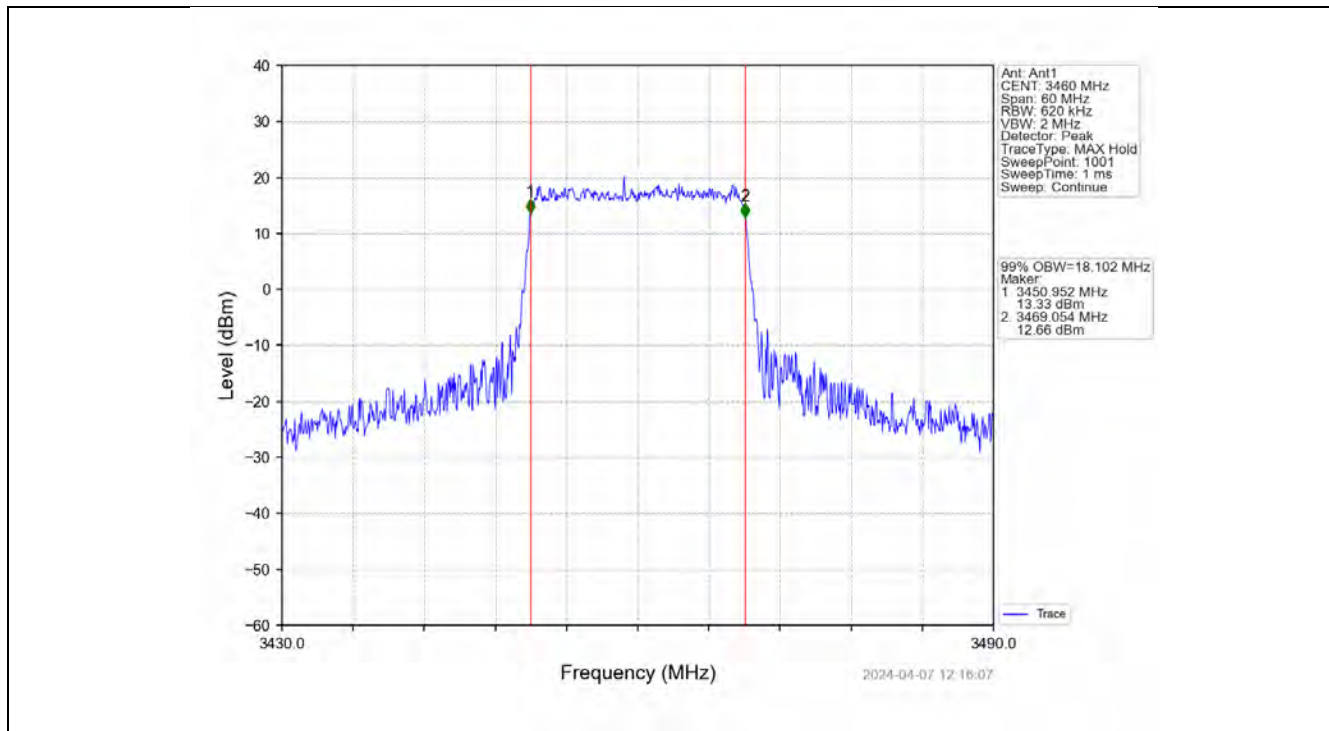
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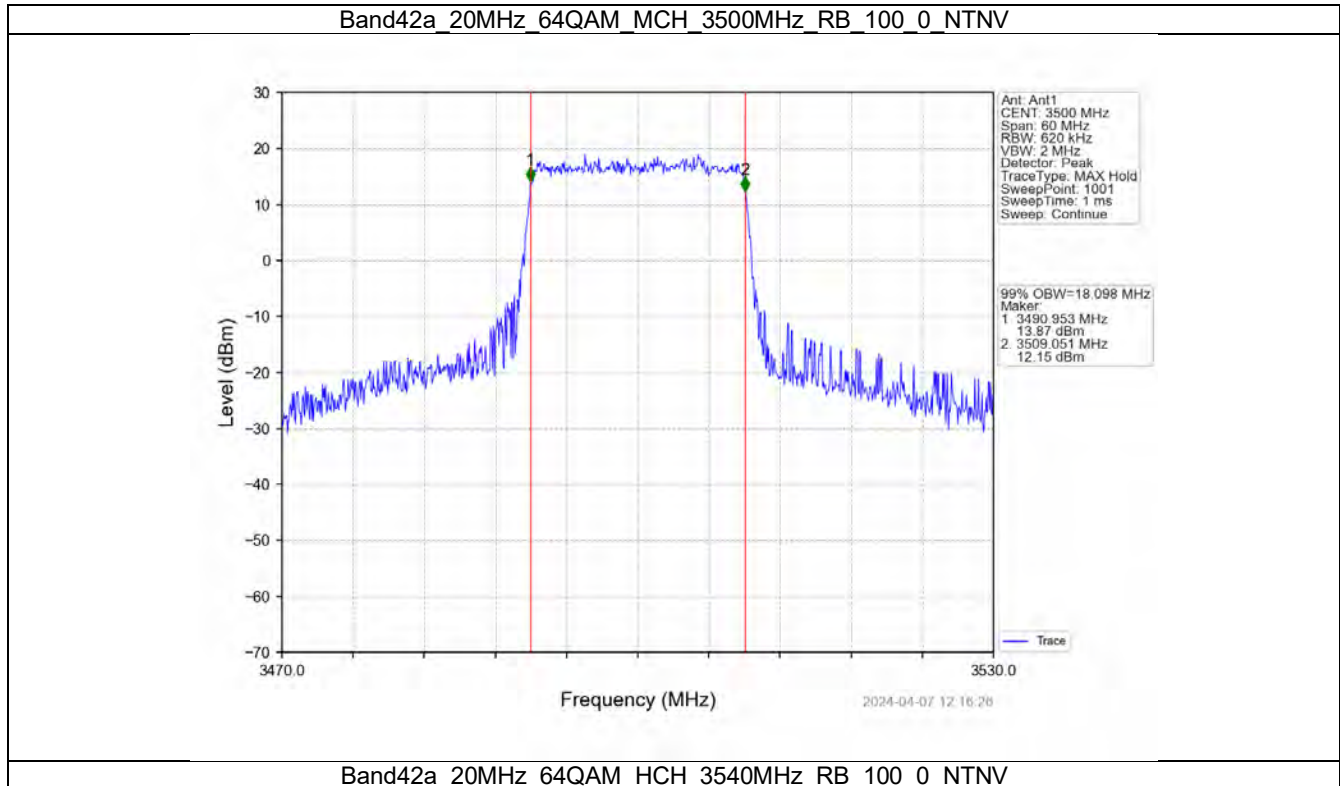


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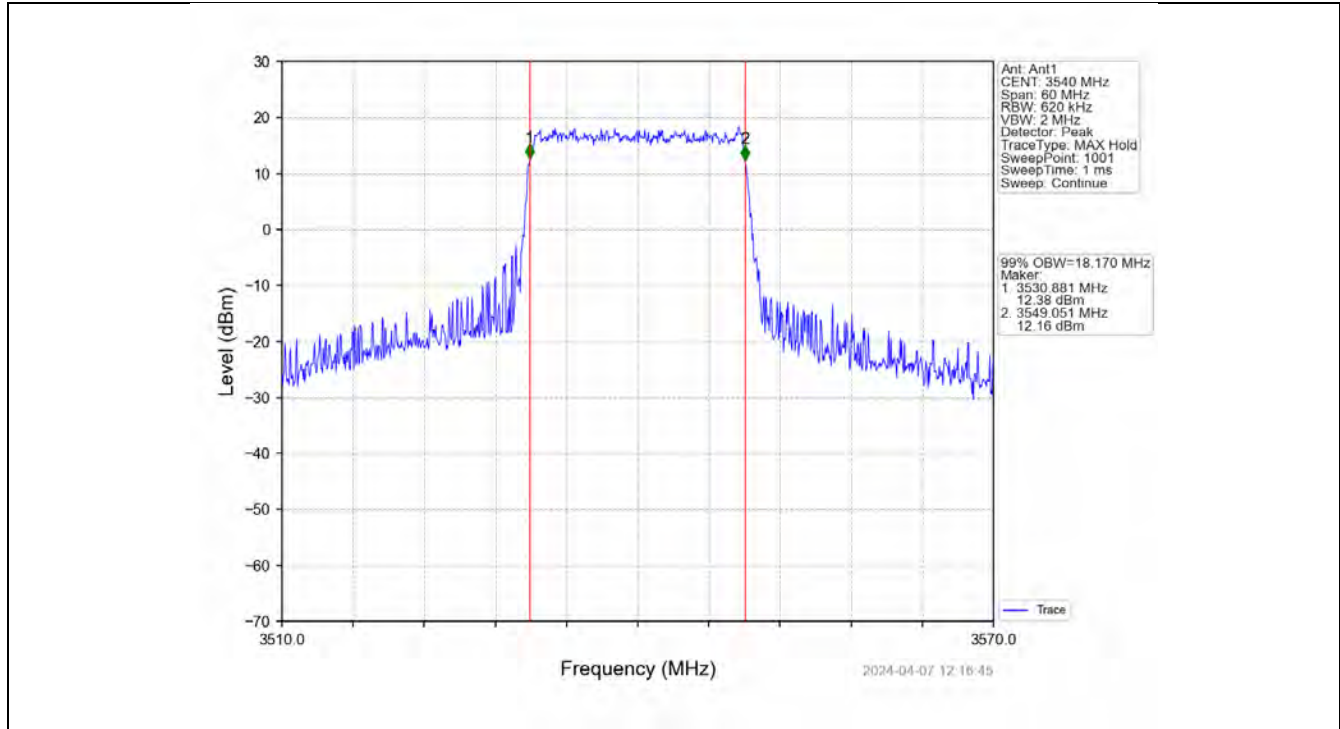


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## 3.2 Band42a\_XDB

### 3.2.1 Test Result

Band: 42a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3452.5	25	0	5.645	/	Pass
		3500	25	0	5.559	/	Pass
		3547.5	25	0	5.284	/	Pass
	16QAM	3452.5	25	0	6.021	/	Pass
		3500	25	0	5.556	/	Pass
		3547.5	25	0	5.417	/	Pass
	64QAM	3452.5	25	0	5.492	/	Pass
		3500	25	0	5.500	/	Pass
		3547.5	25	0	5.786	/	Pass
10	QPSK	3455	50	0	11.237	/	Pass
		3500	50	0	10.830	/	Pass
		3545	50	0	10.566	/	Pass
	16QAM	3455	50	0	12.107	/	Pass
		3500	50	0	10.720	/	Pass
		3545	50	0	11.787	/	Pass
	64QAM	3455	50	0	10.894	/	Pass
		3500	50	0	11.284	/	Pass
		3545	50	0	10.319	/	Pass
15	QPSK	3457.5	75	0	17.547	/	Pass
		3500	75	0	18.509	/	Pass
		3542.5	75	0	16.511	/	Pass
	16QAM	3457.5	75	0	15.969	/	Pass
		3500	75	0	16.869	/	Pass
		3542.5	75	0	16.729	/	Pass
	64QAM	3457.5	75	0	15.420	/	Pass
		3500	75	0	16.010	/	Pass
		3542.5	75	0	15.816	/	Pass
20	QPSK	3460	100	0	20.137	/	Pass
		3500	100	0	21.558	/	Pass
		3540	100	0	21.873	/	Pass
	16QAM	3460	100	0	22.576	/	Pass
		3500	100	0	19.920	/	Pass
		3540	100	0	20.530	/	Pass
	64QAM	3460	100	0	19.925	/	Pass
		3500	100	0	20.493	/	Pass
		3540	100	0	21.598	/	Pass



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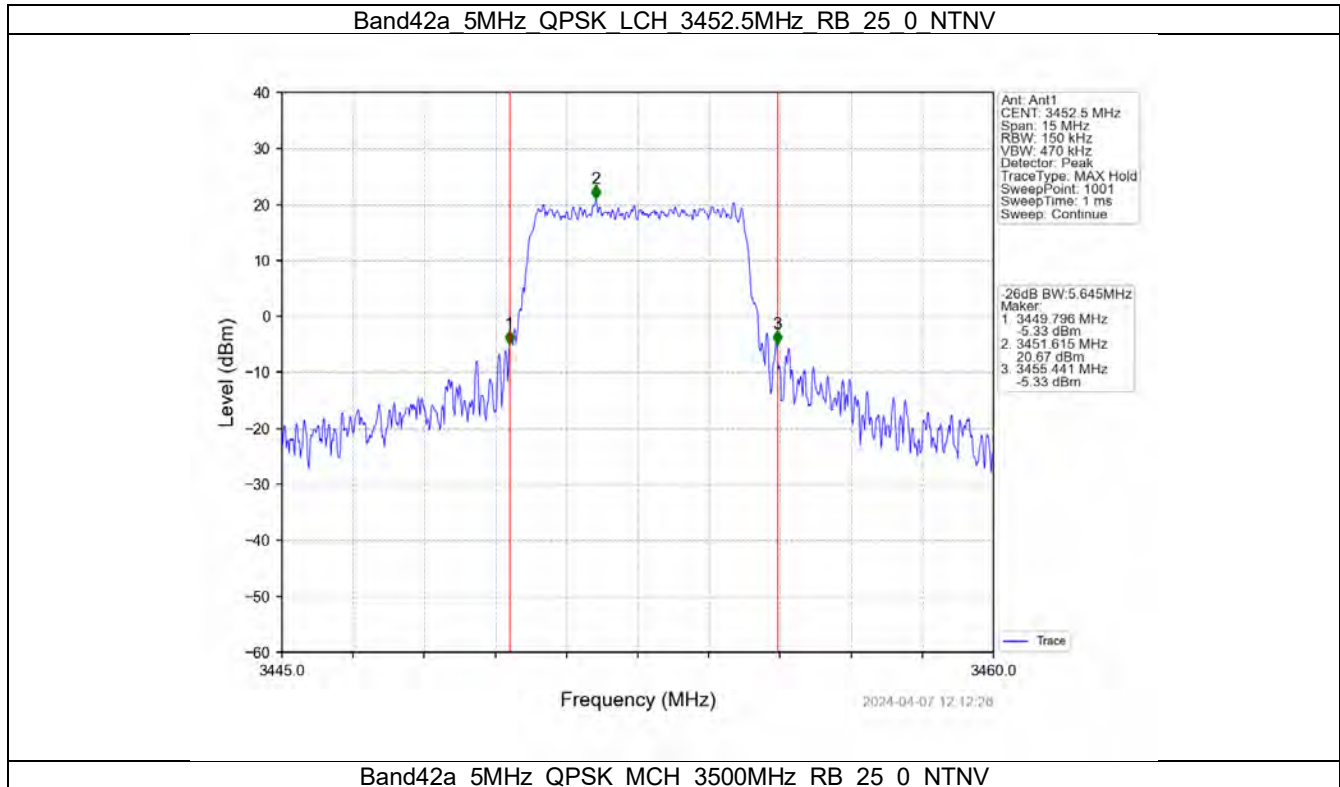
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3.2.2 Test Graph



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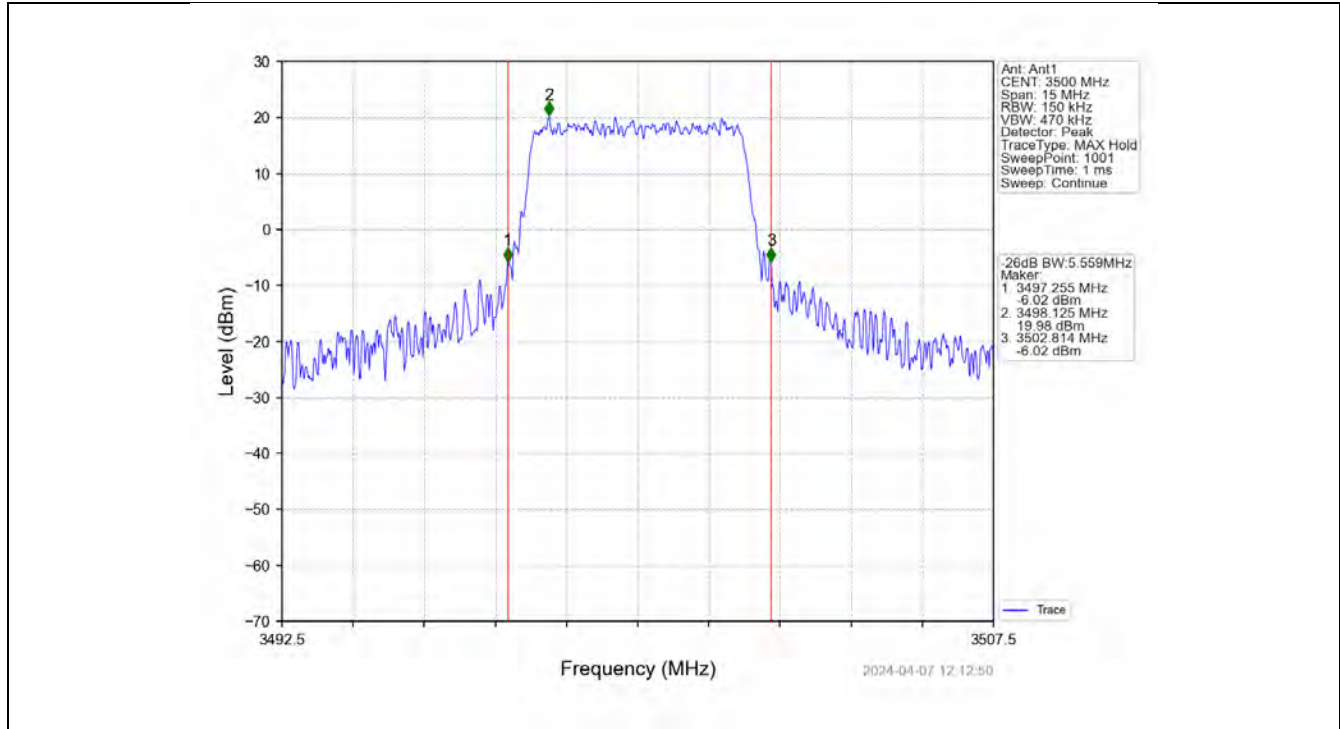


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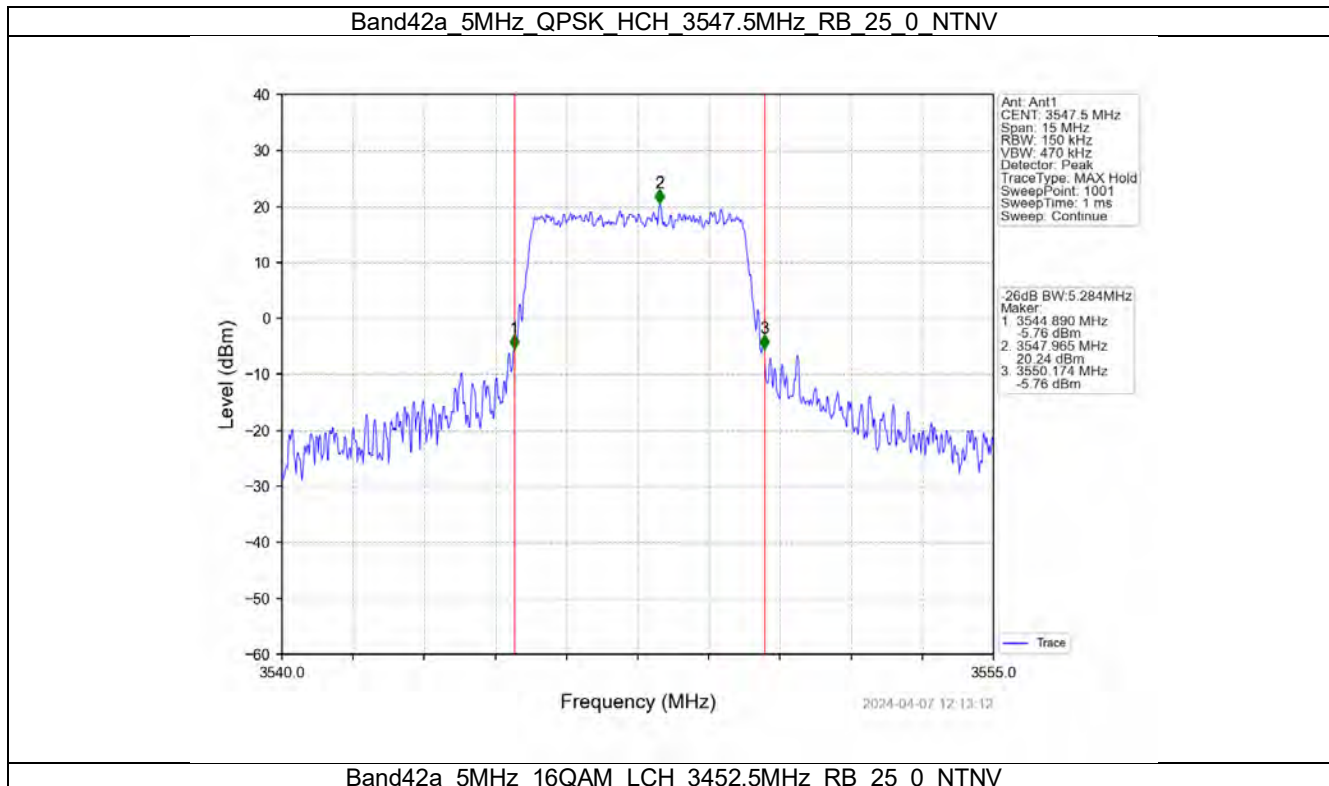
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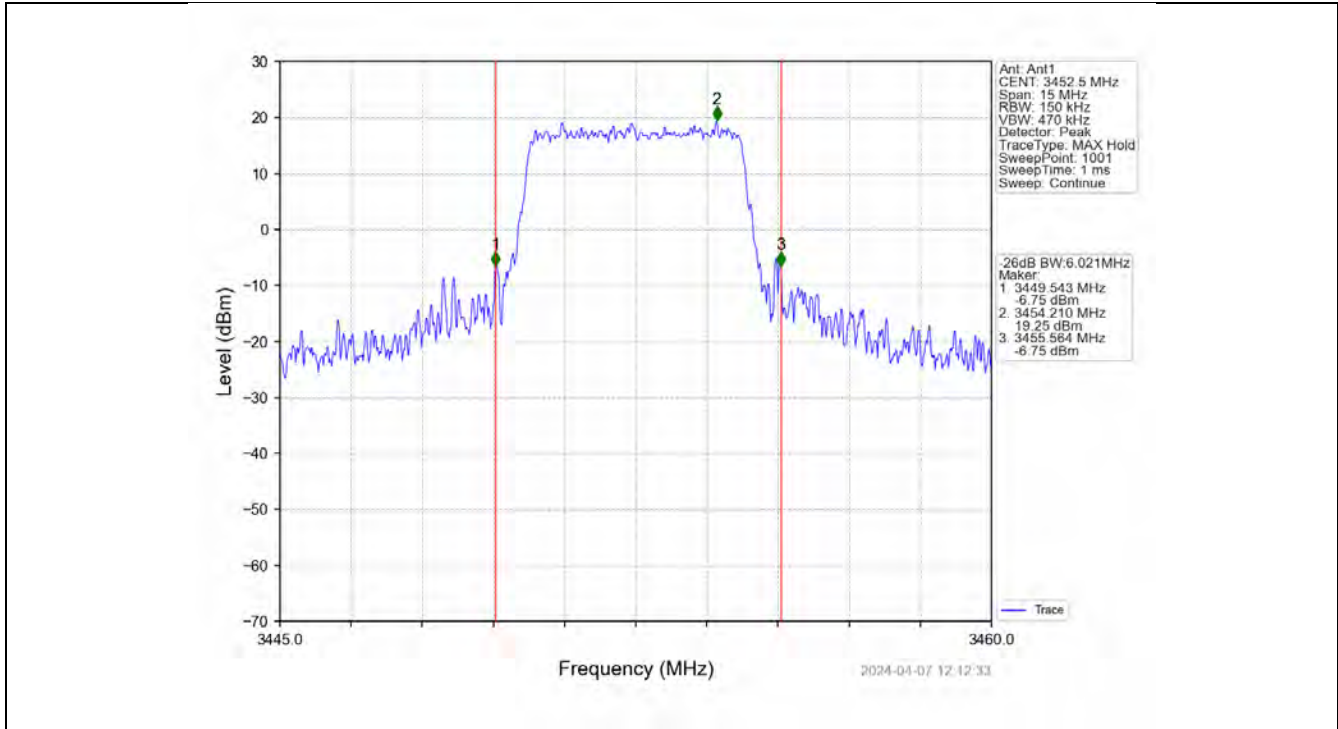


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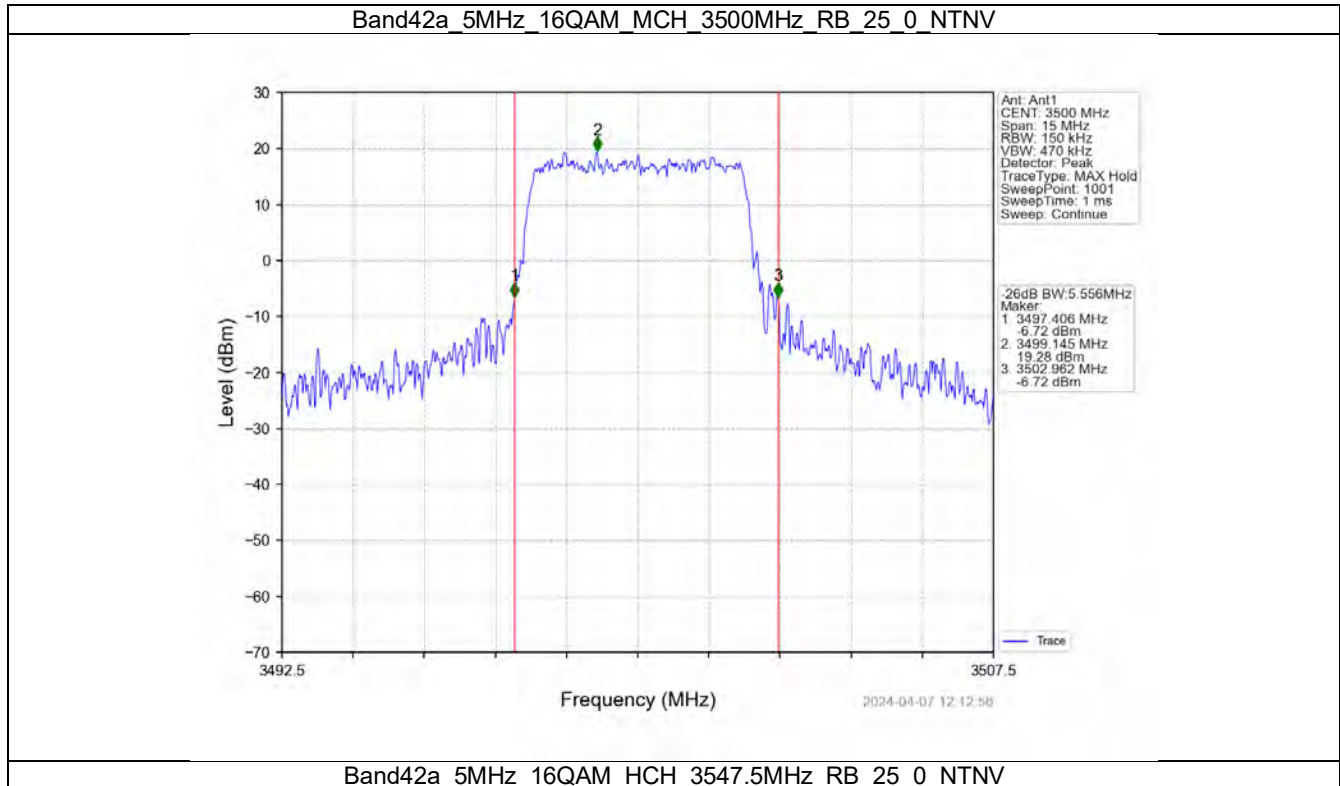


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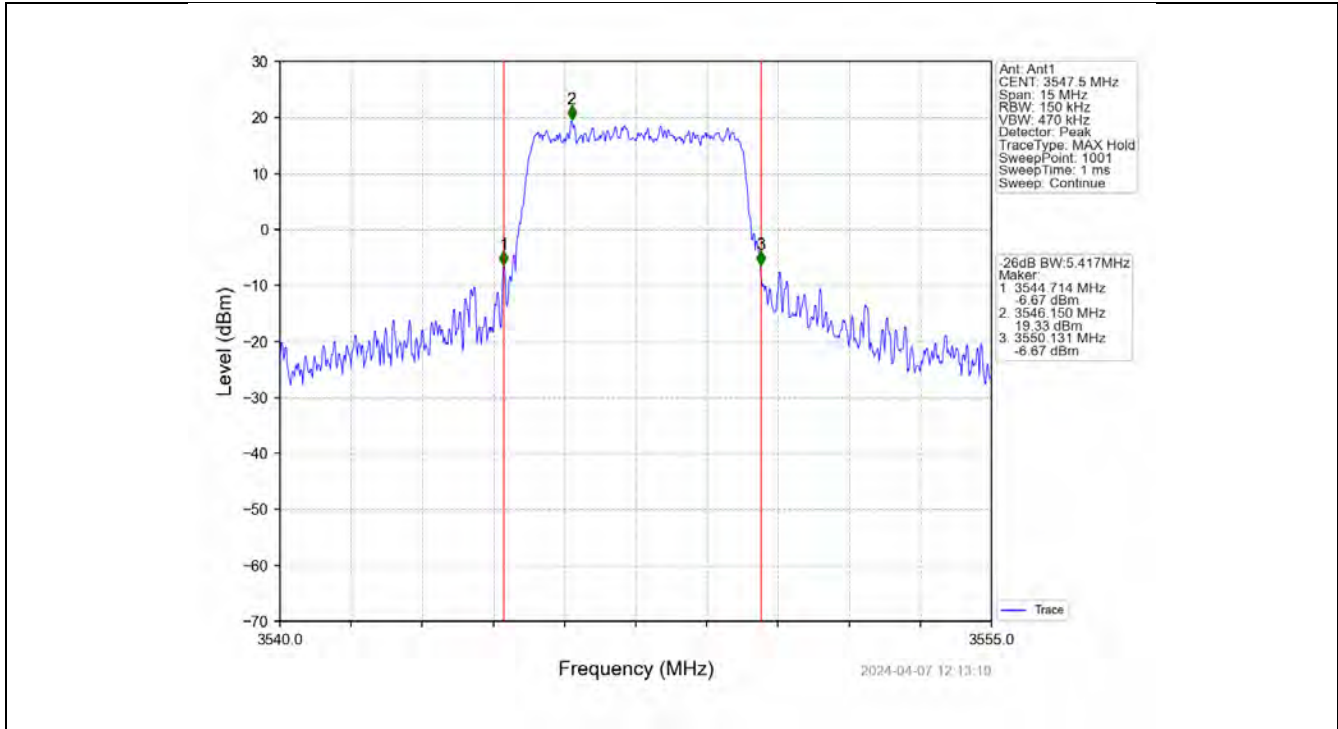


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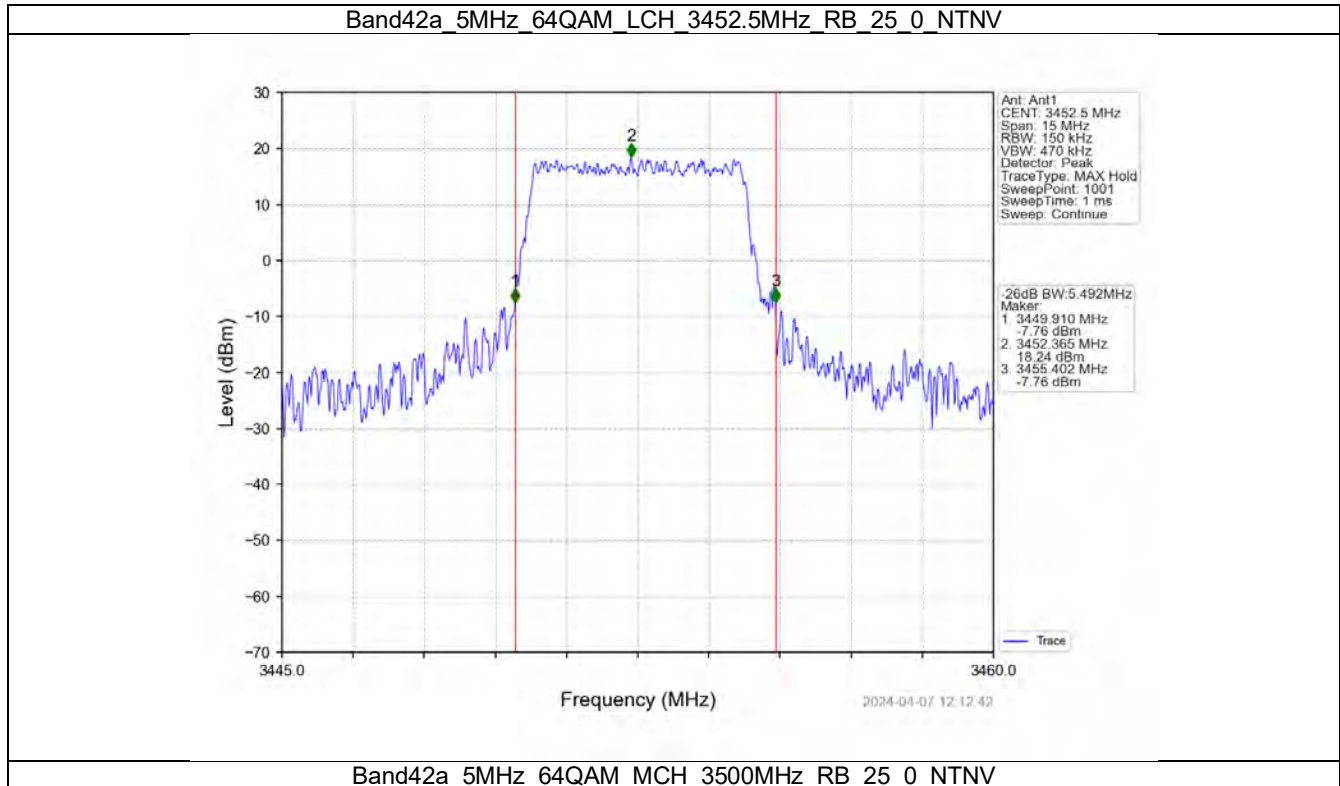


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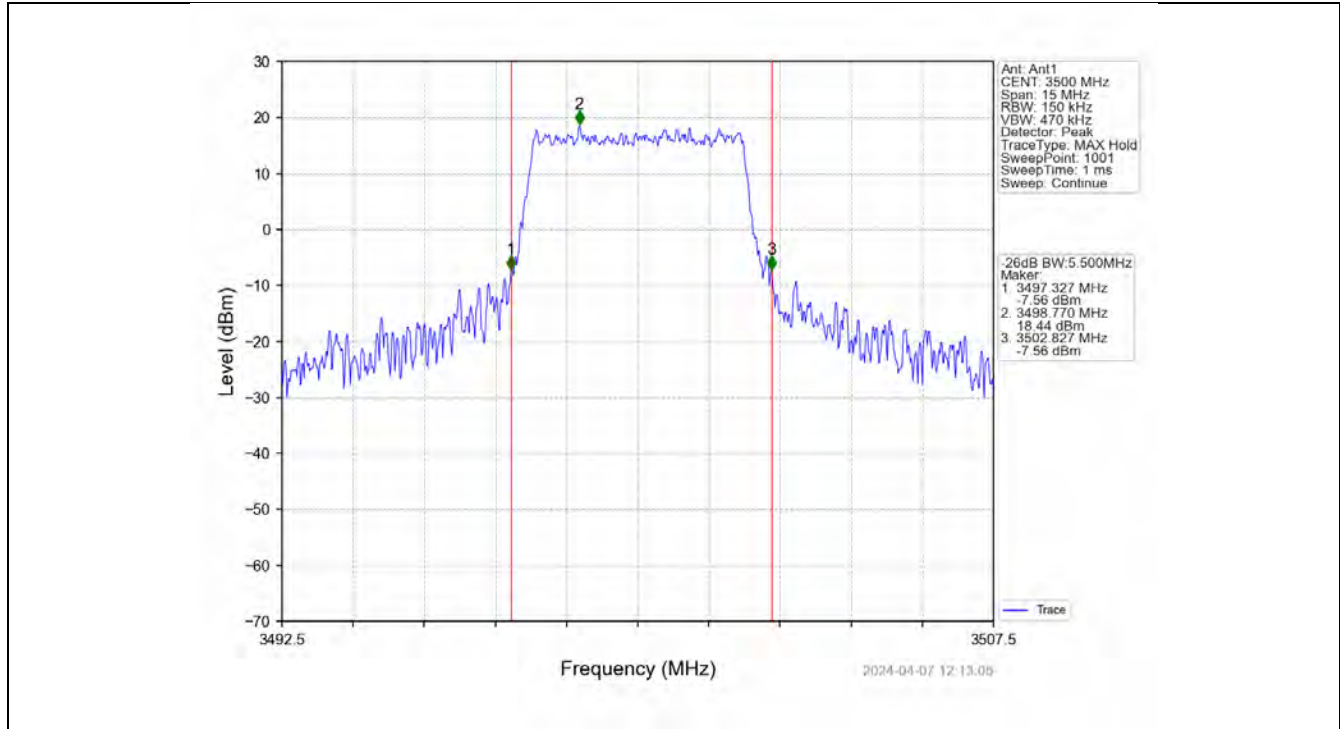


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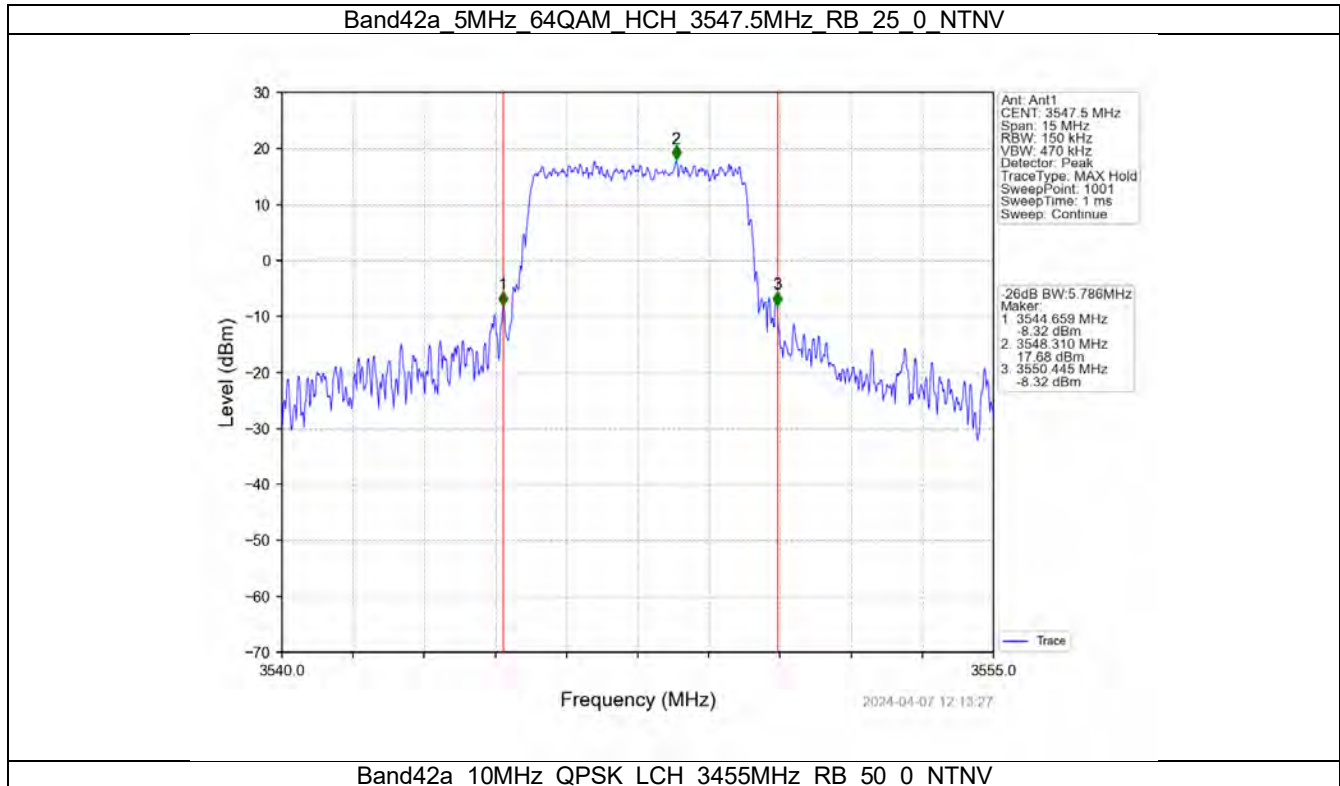


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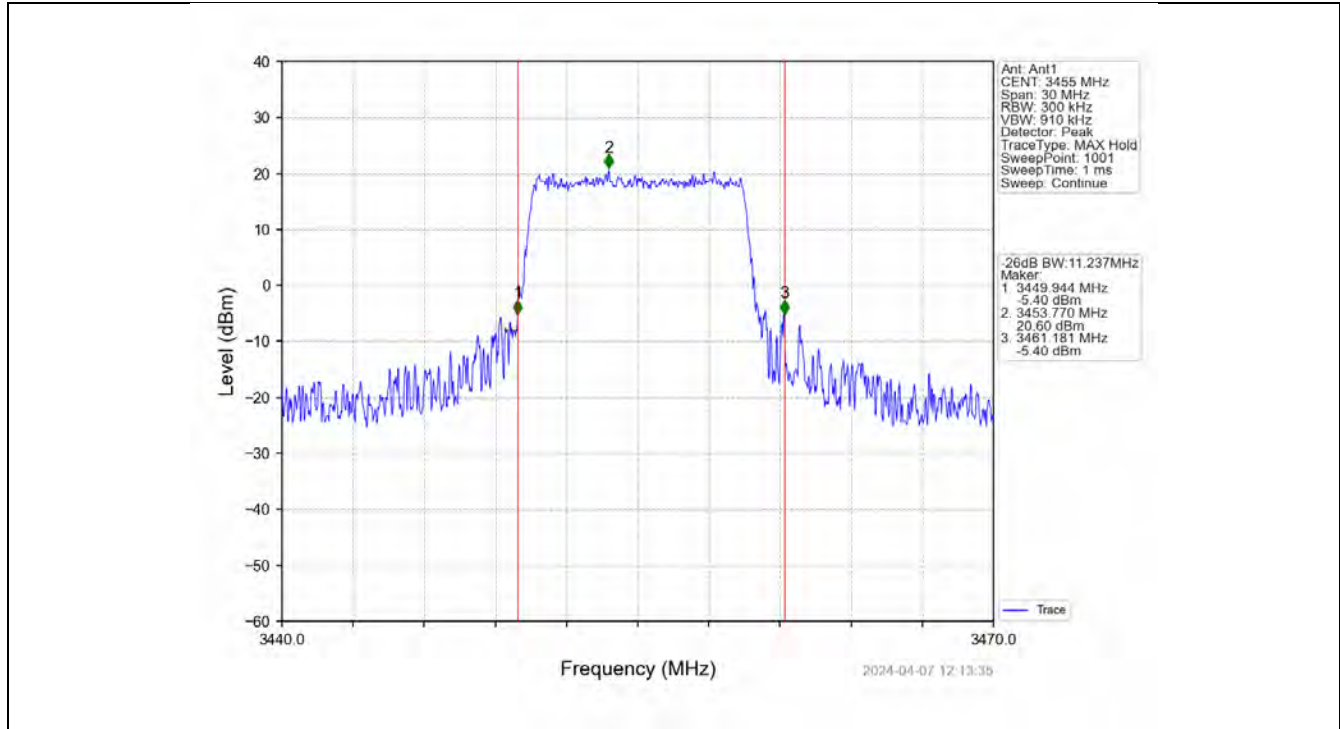


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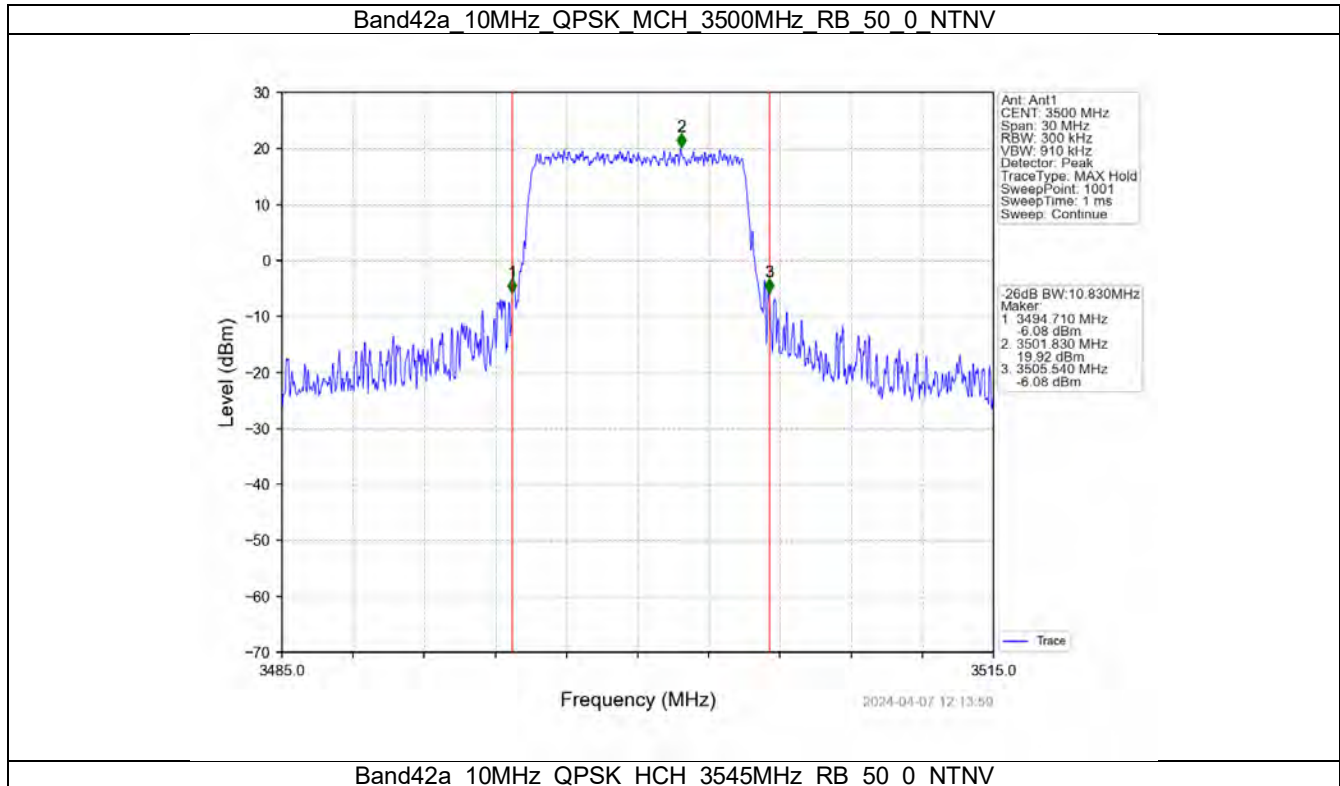


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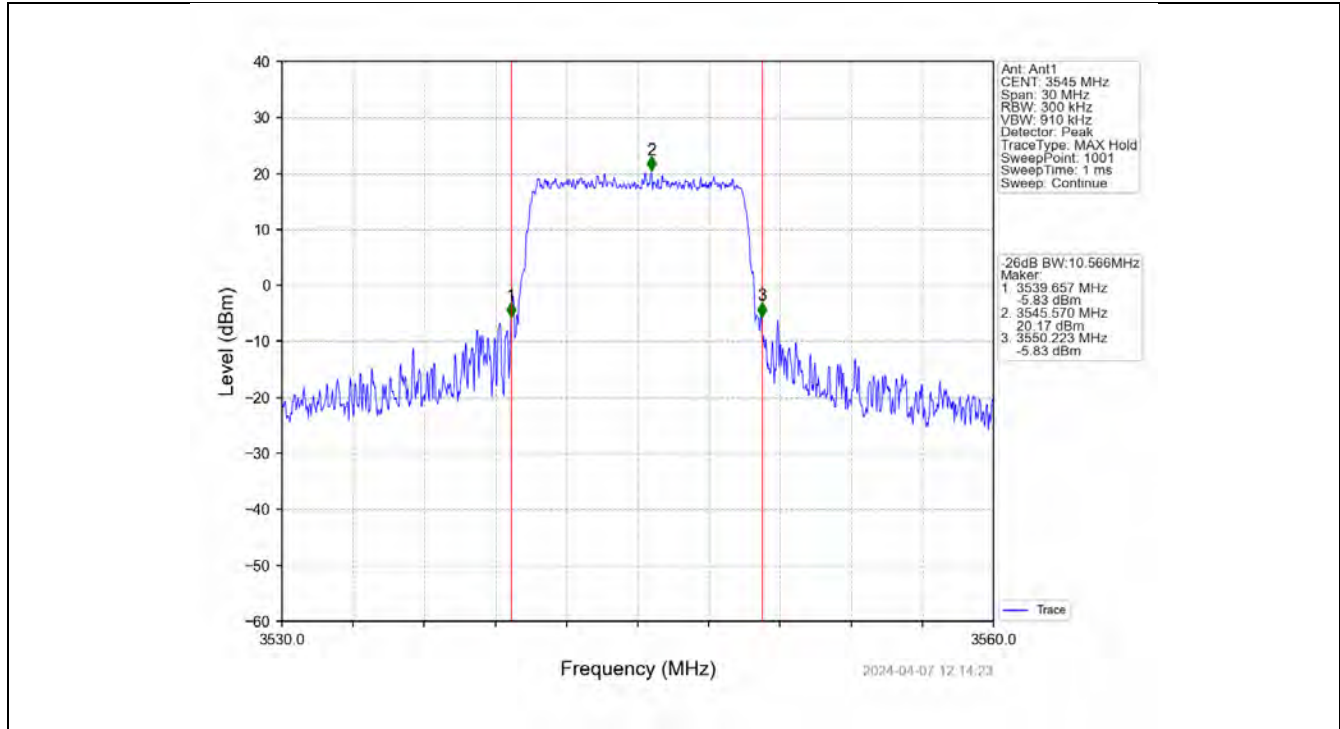


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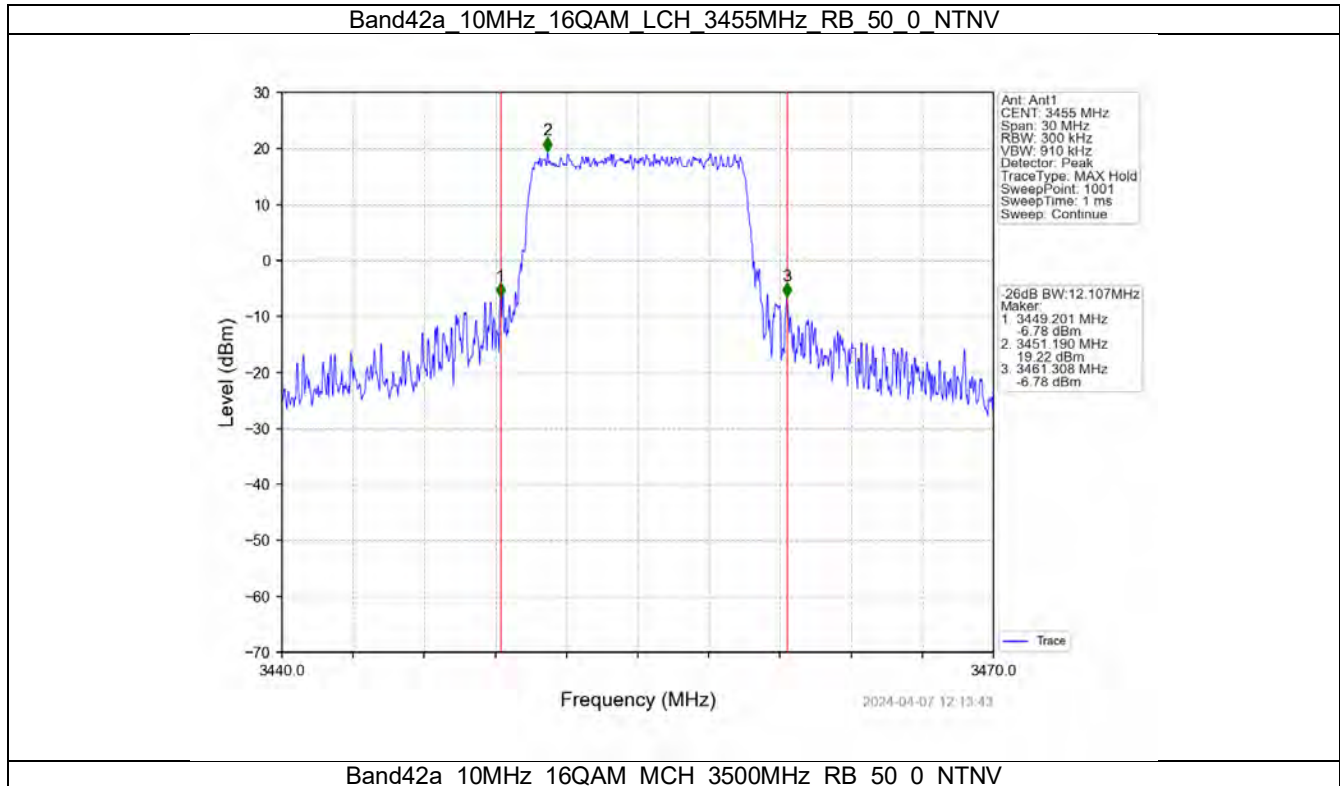


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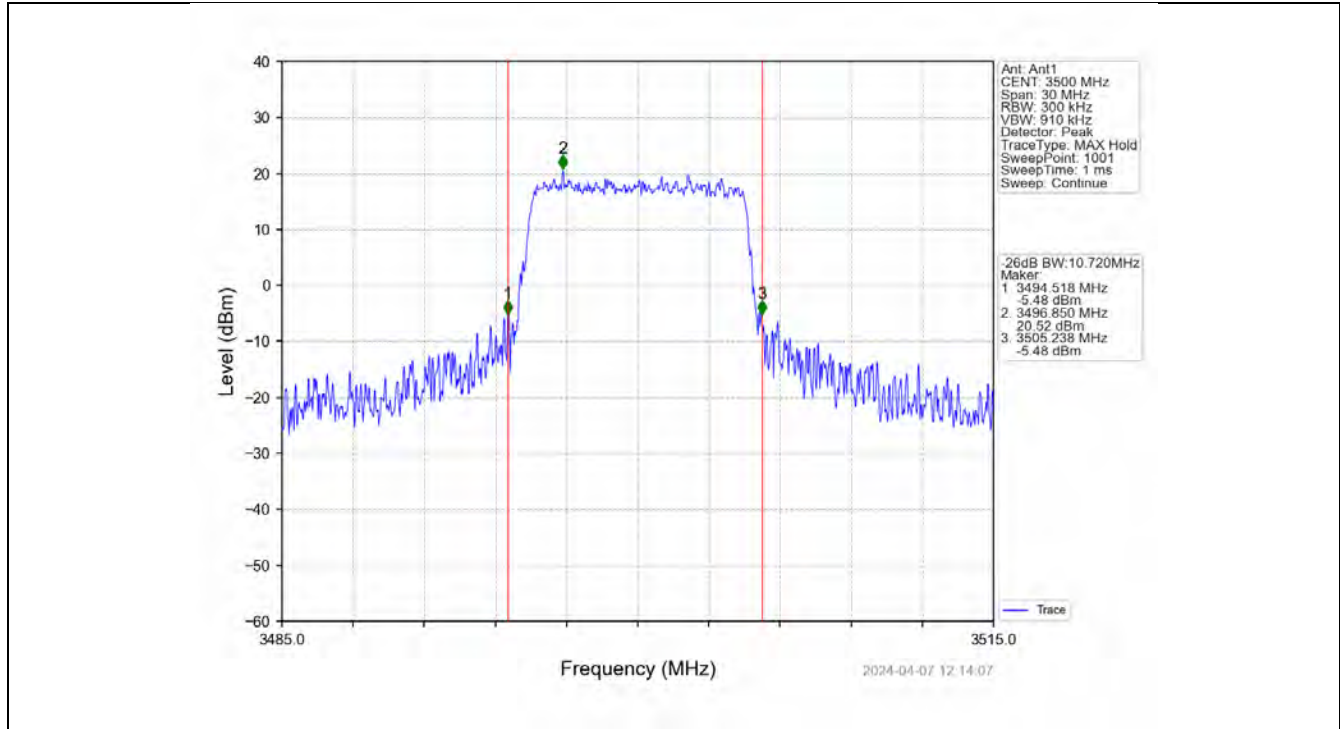


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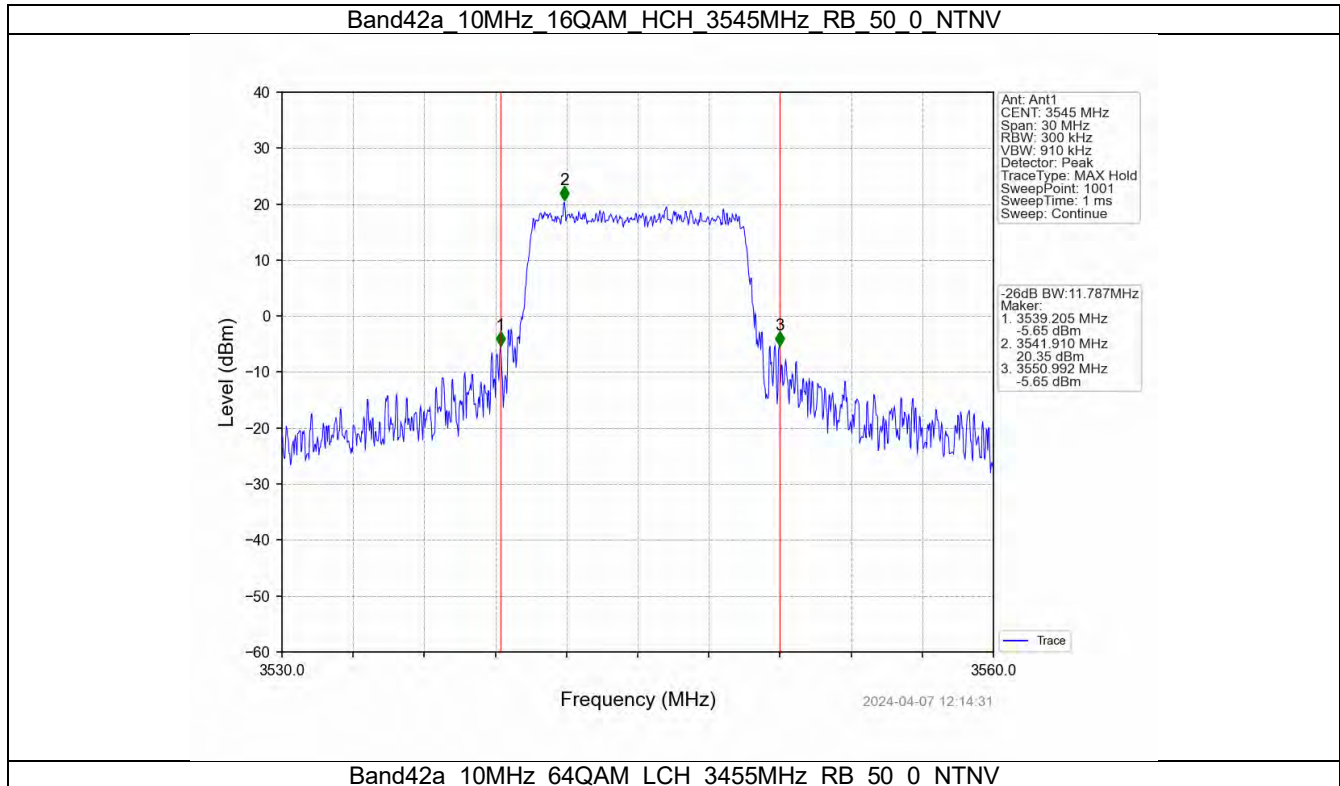


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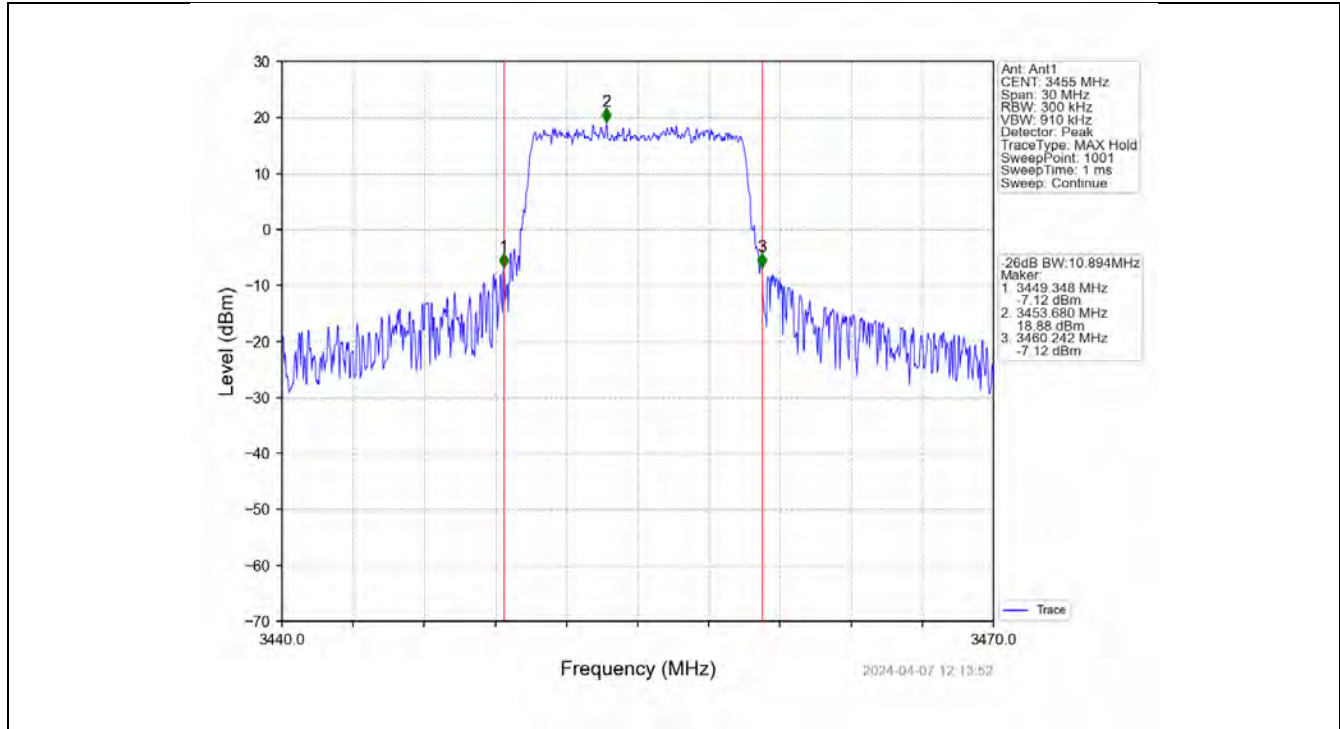


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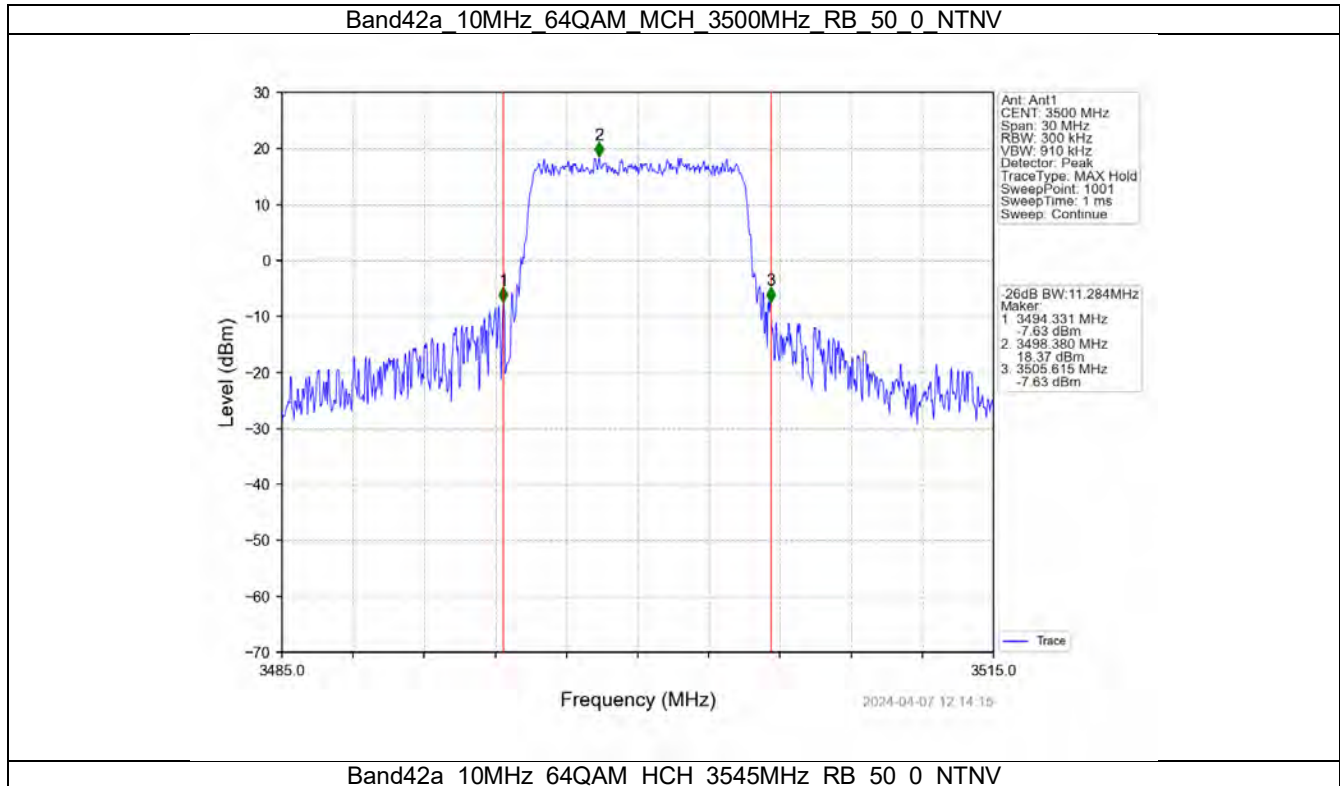


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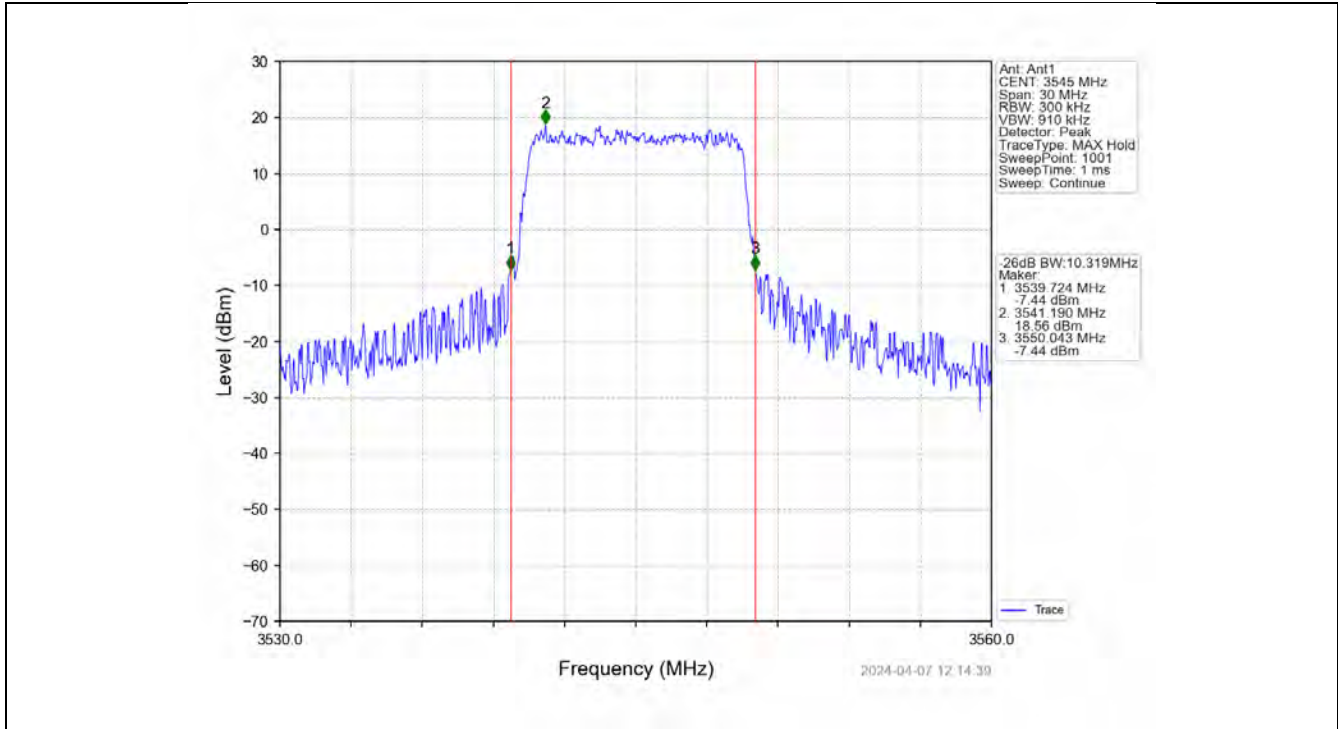


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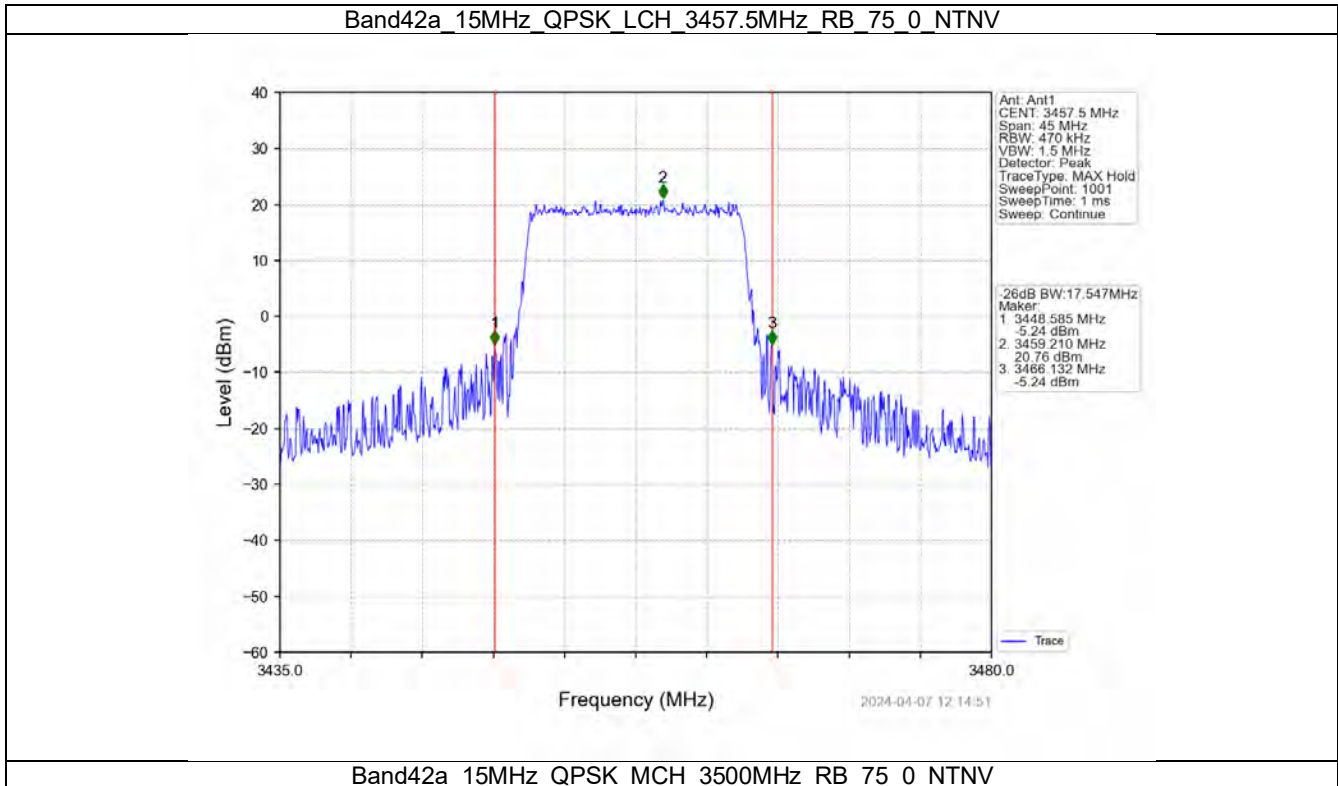


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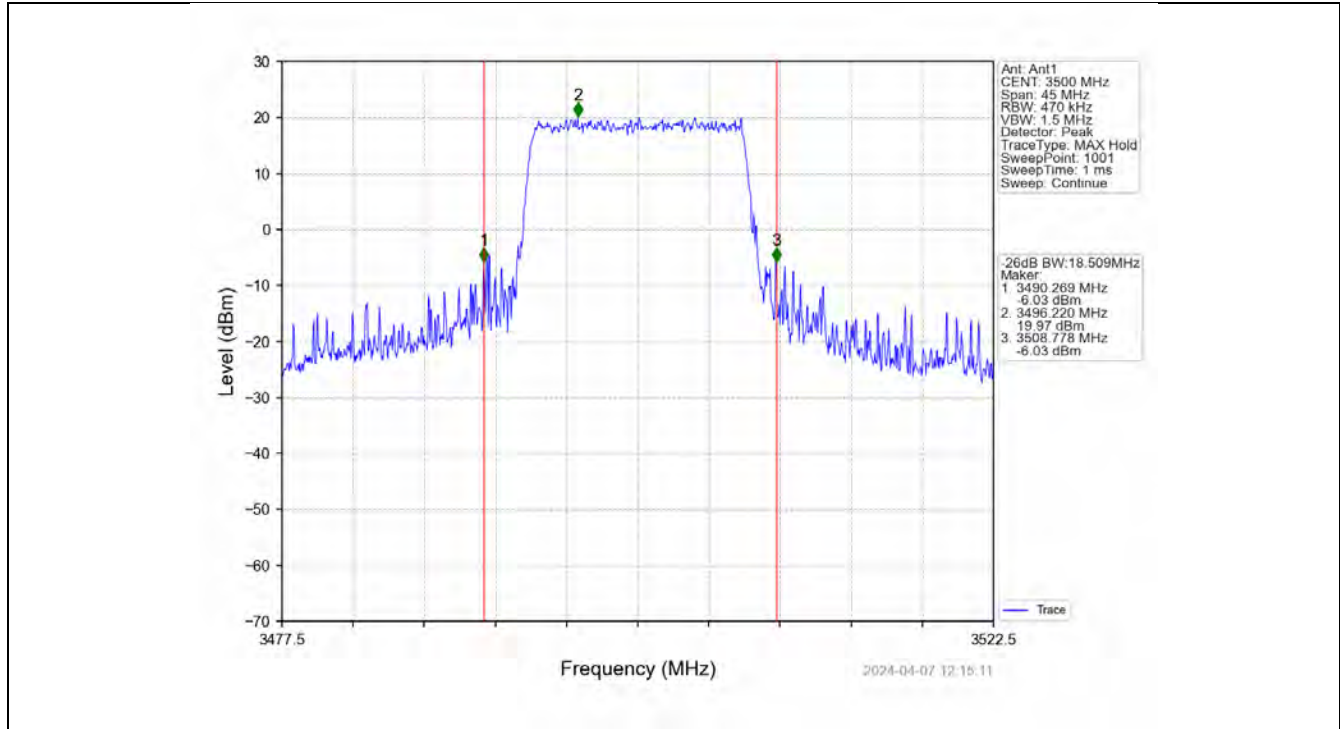


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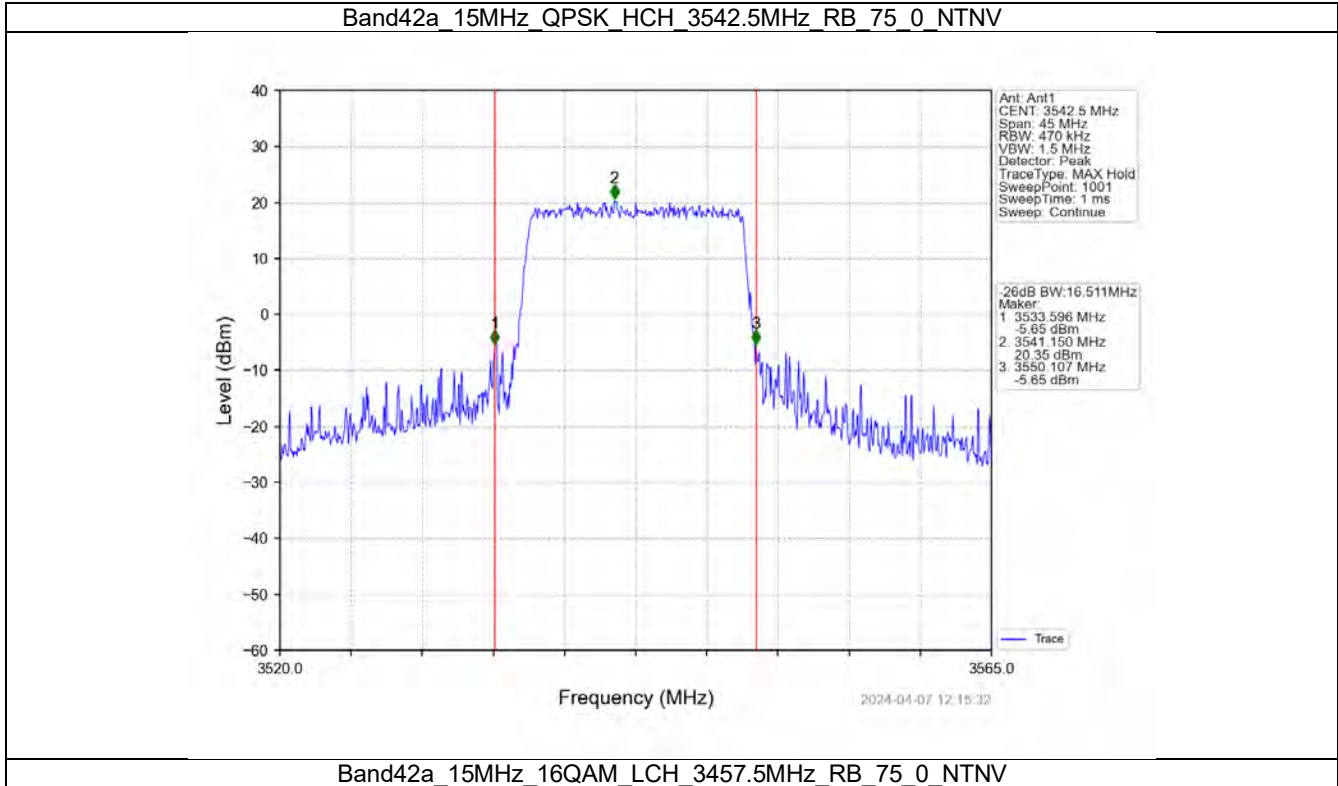


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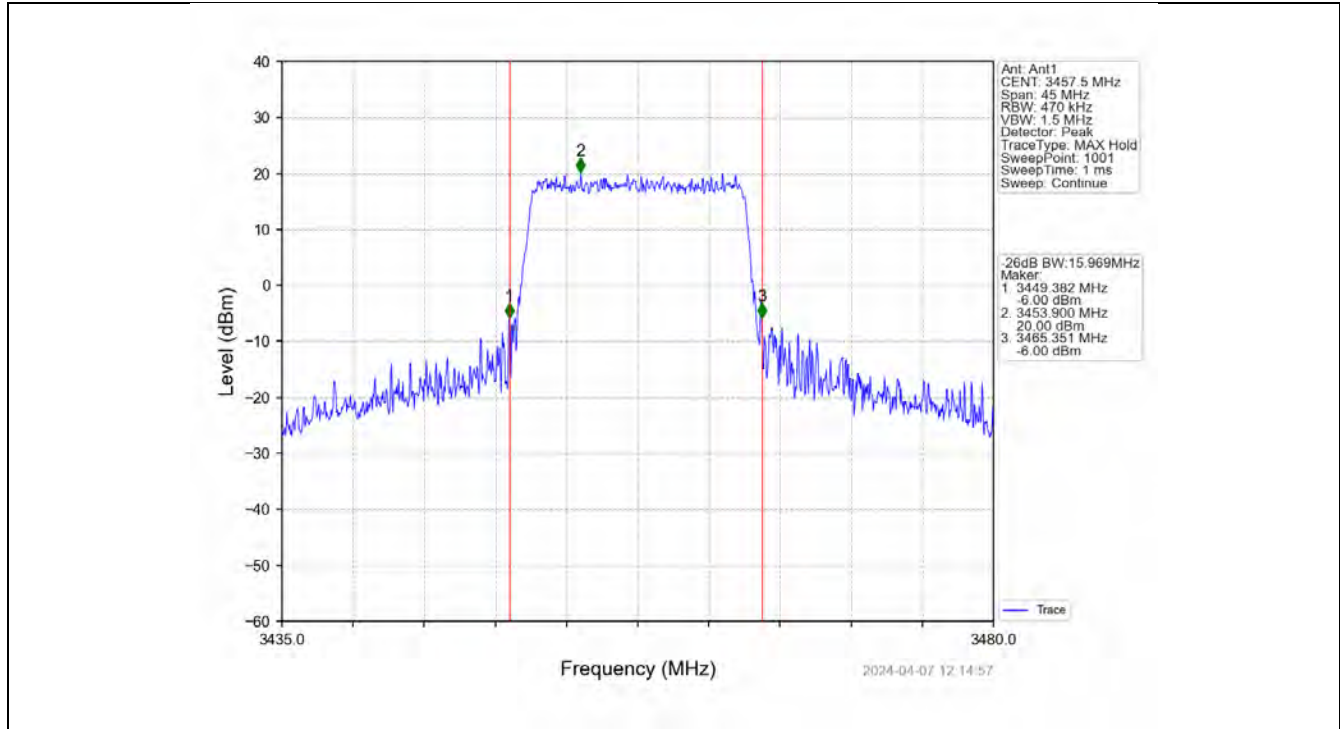


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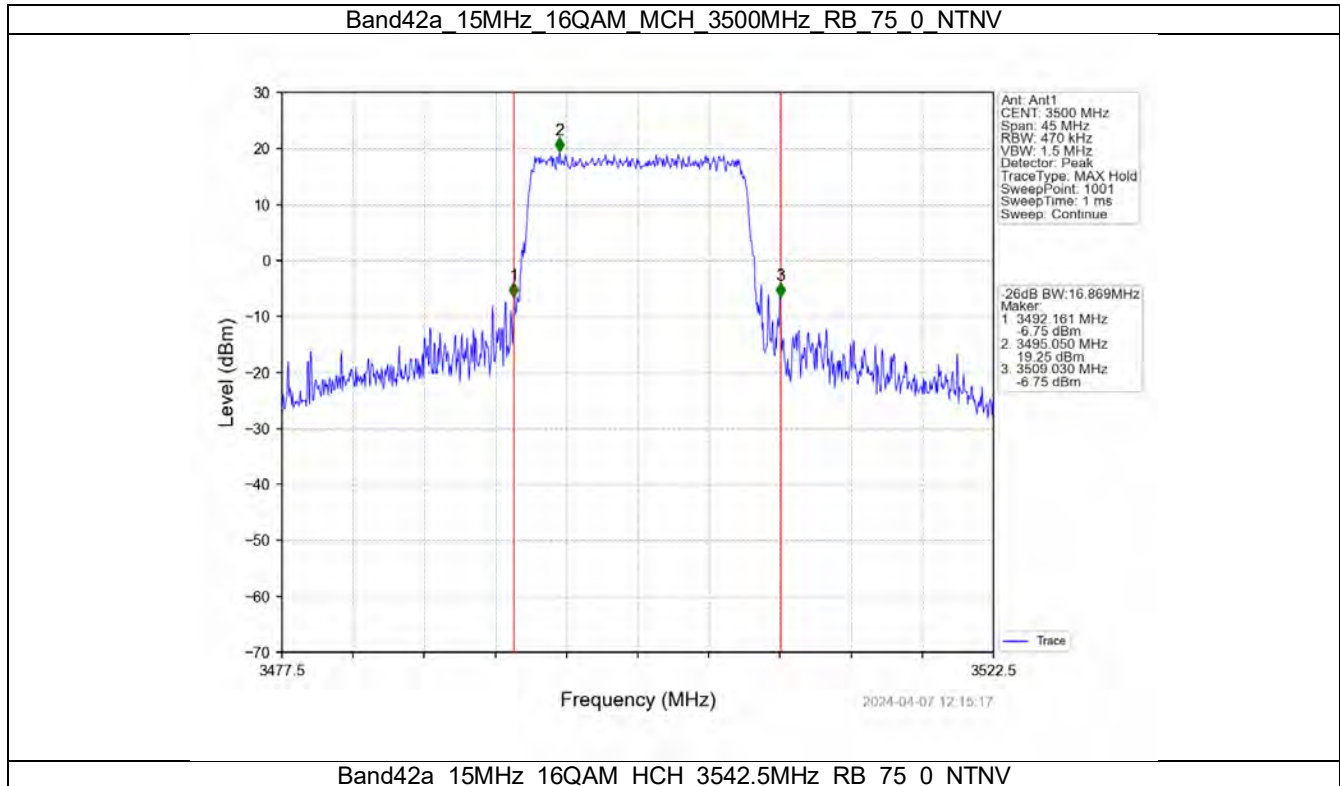


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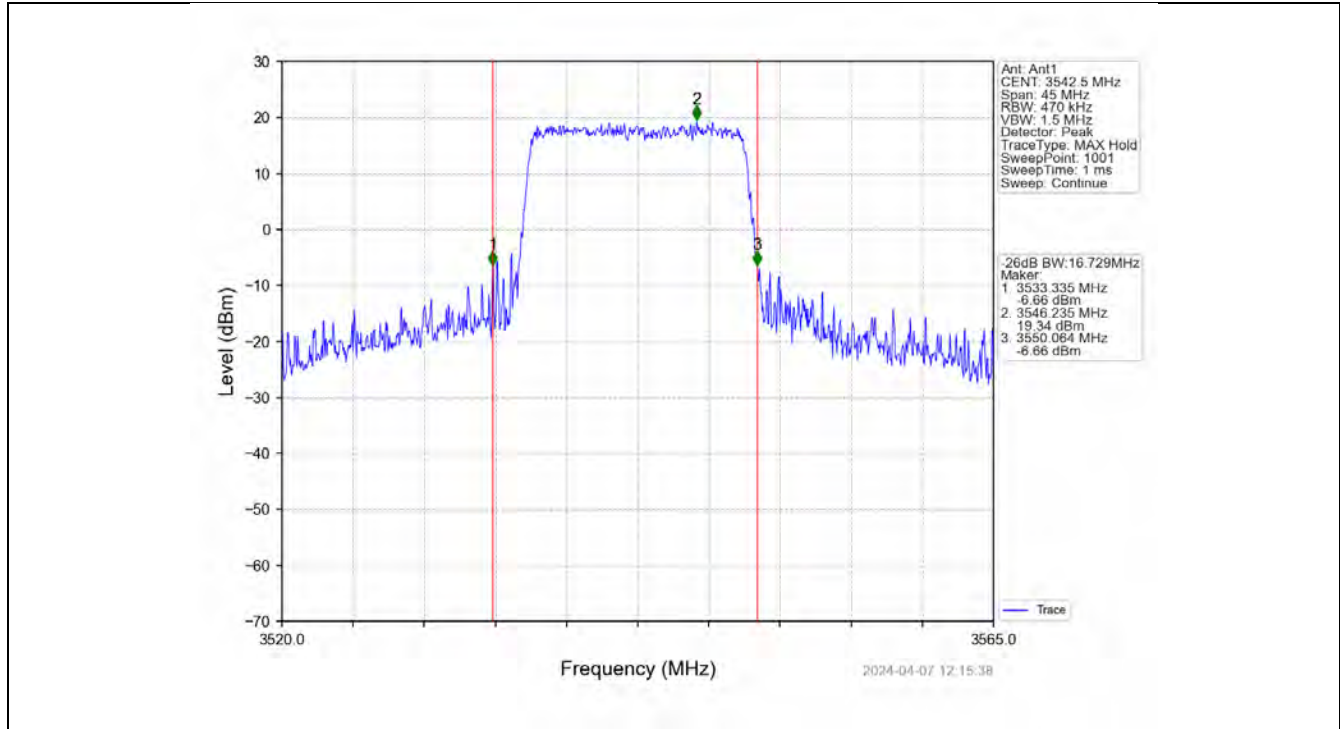


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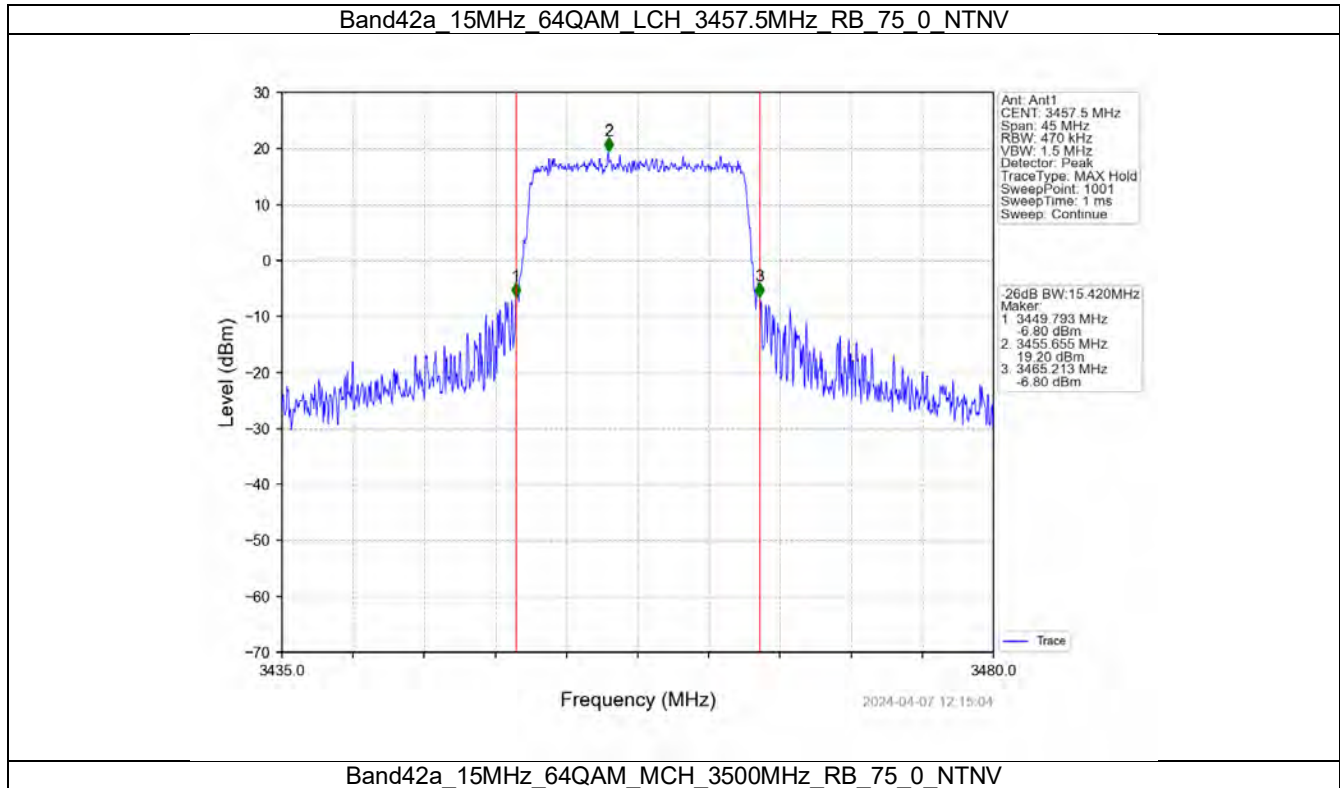


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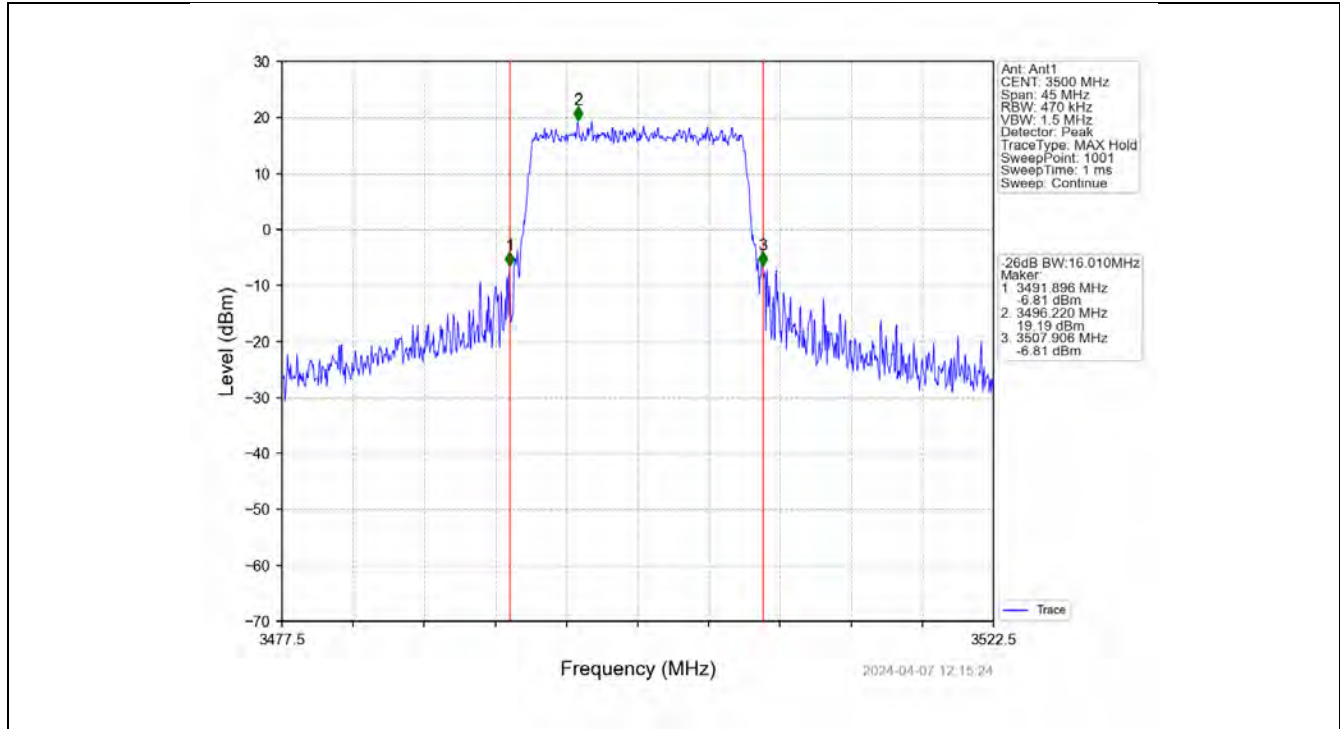


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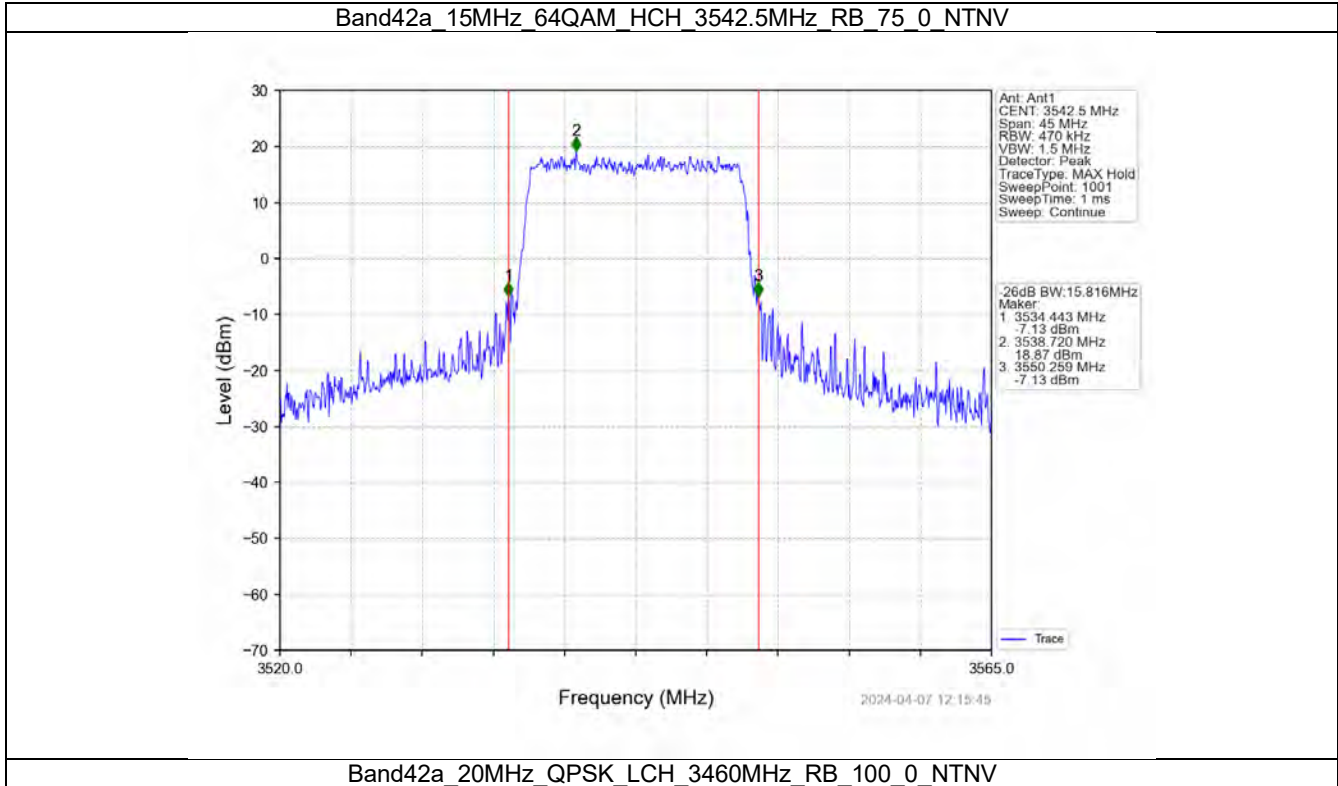


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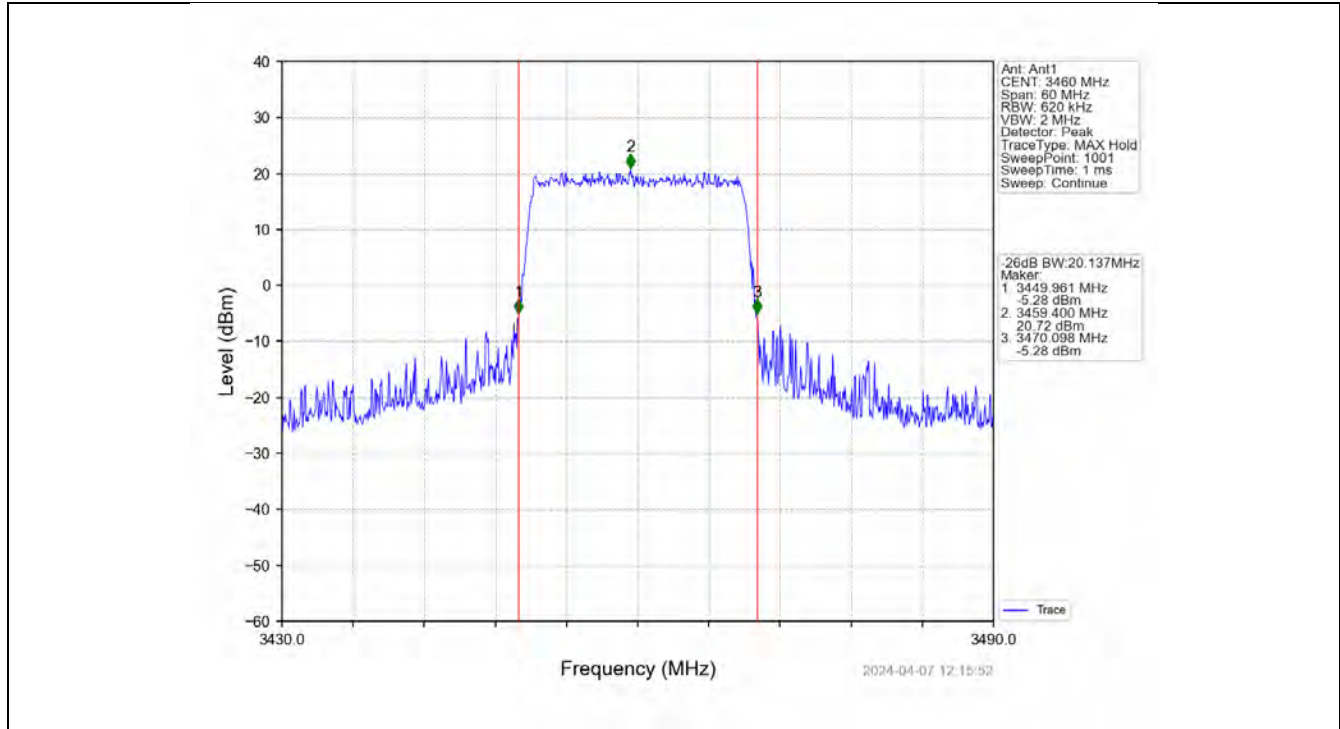


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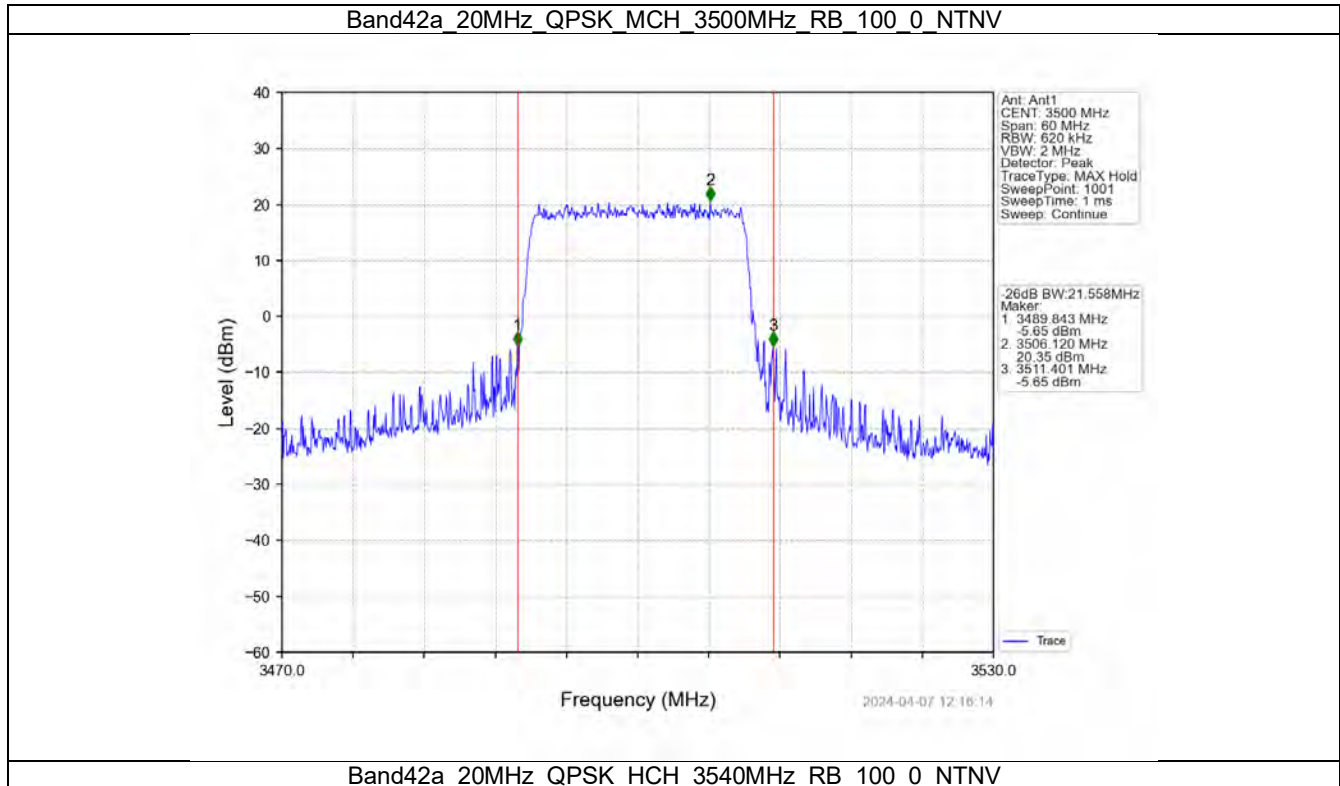


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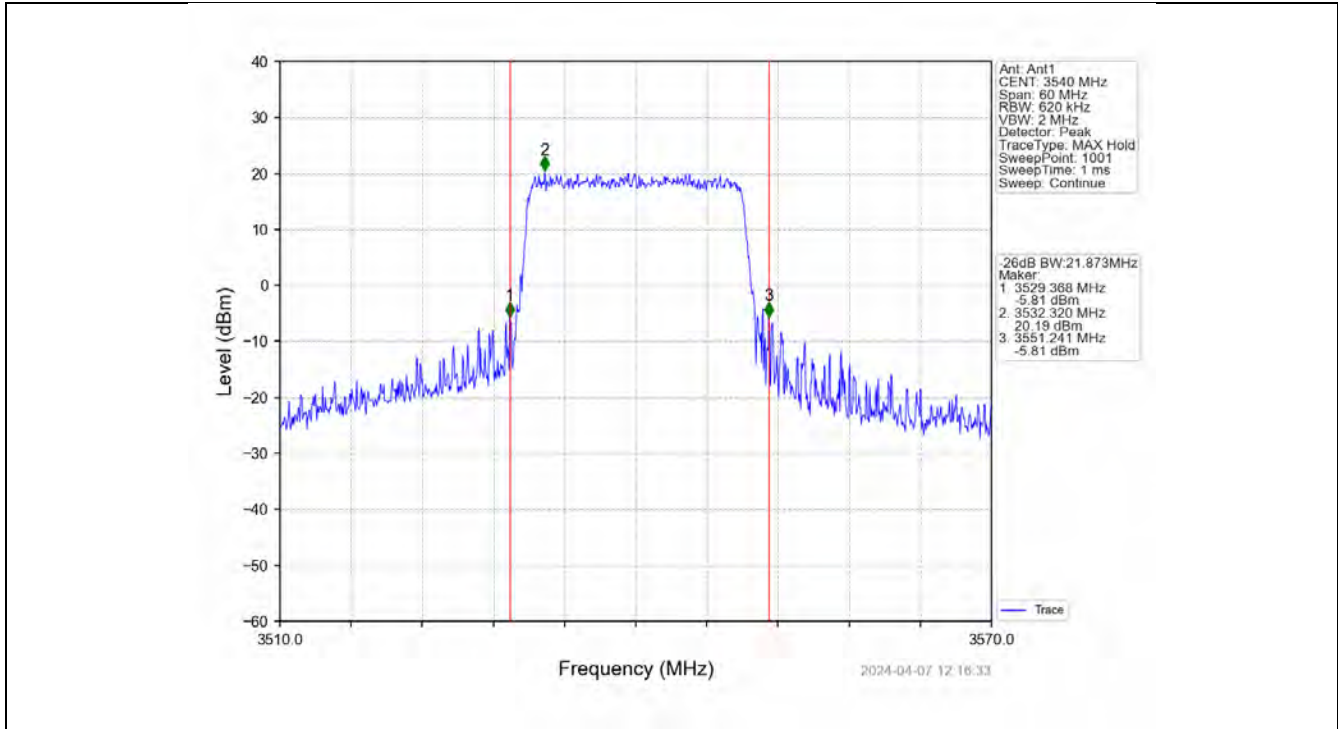


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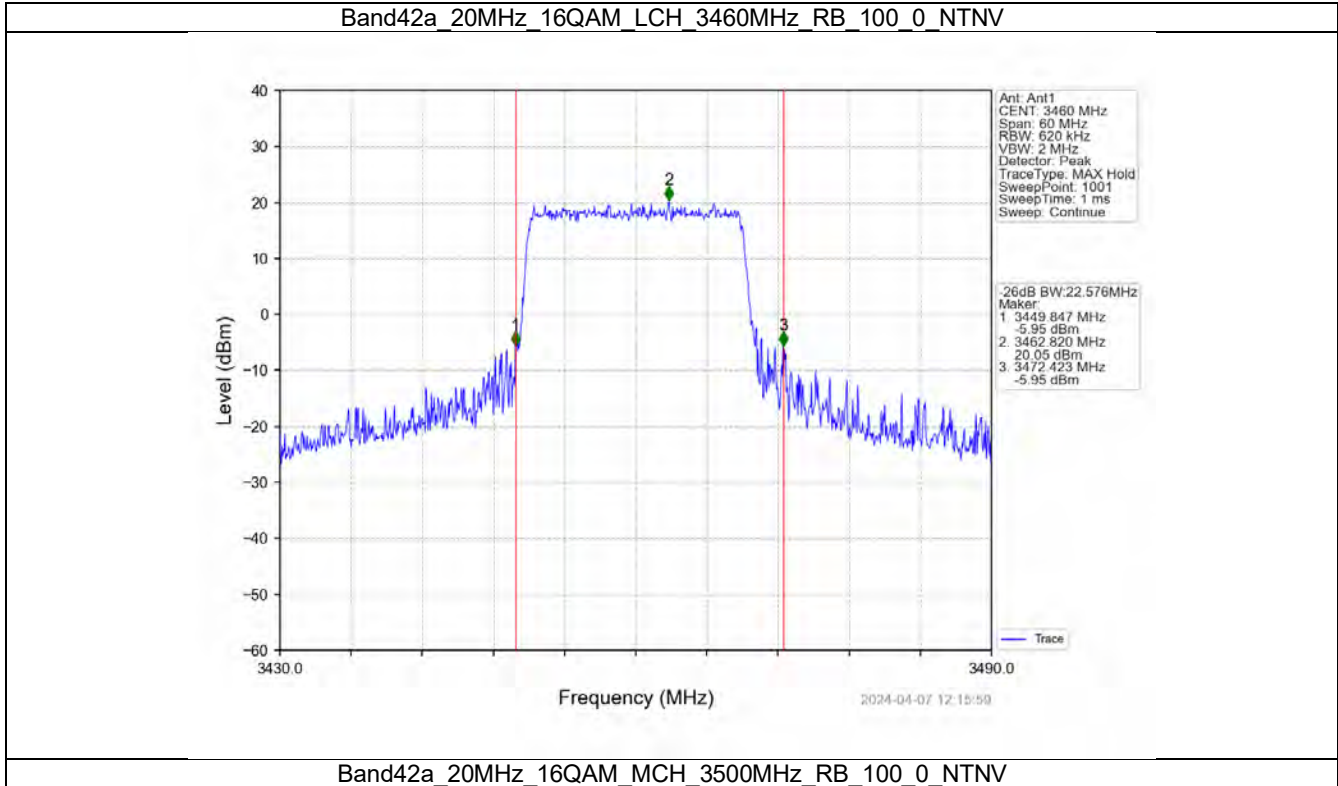


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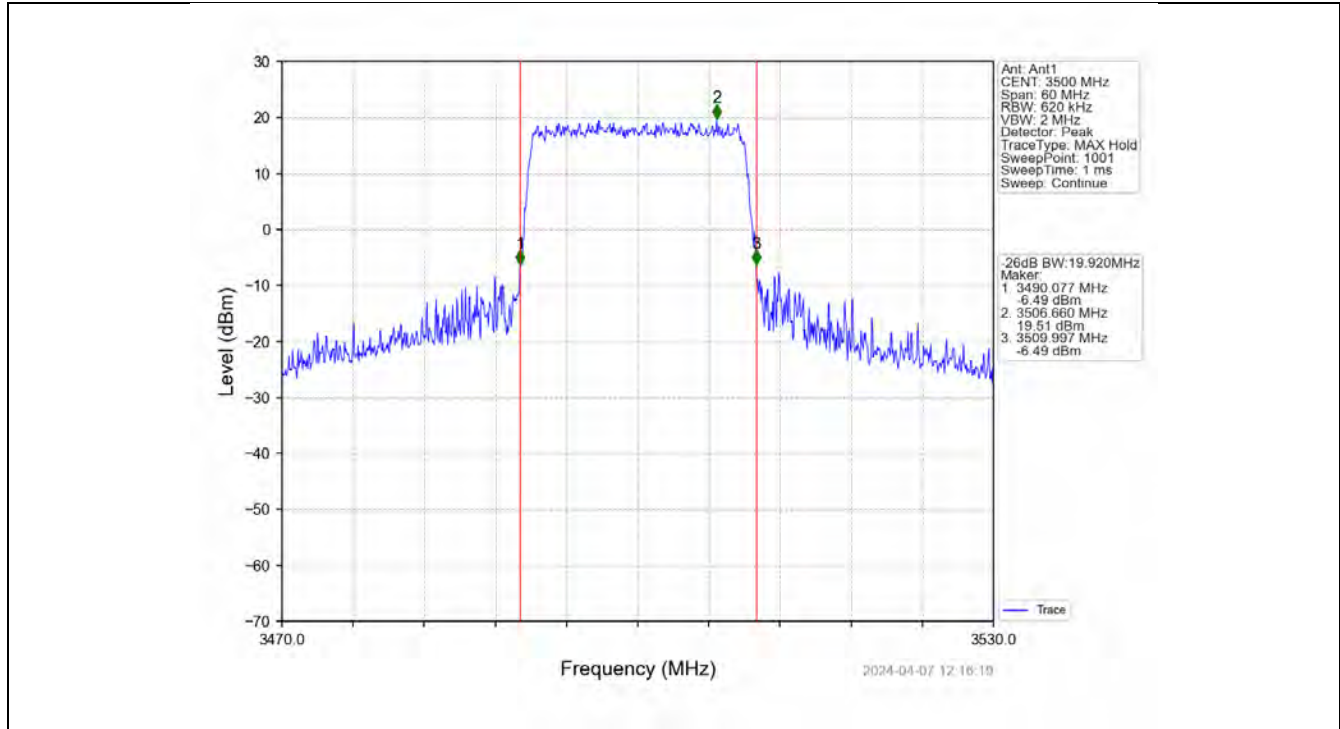


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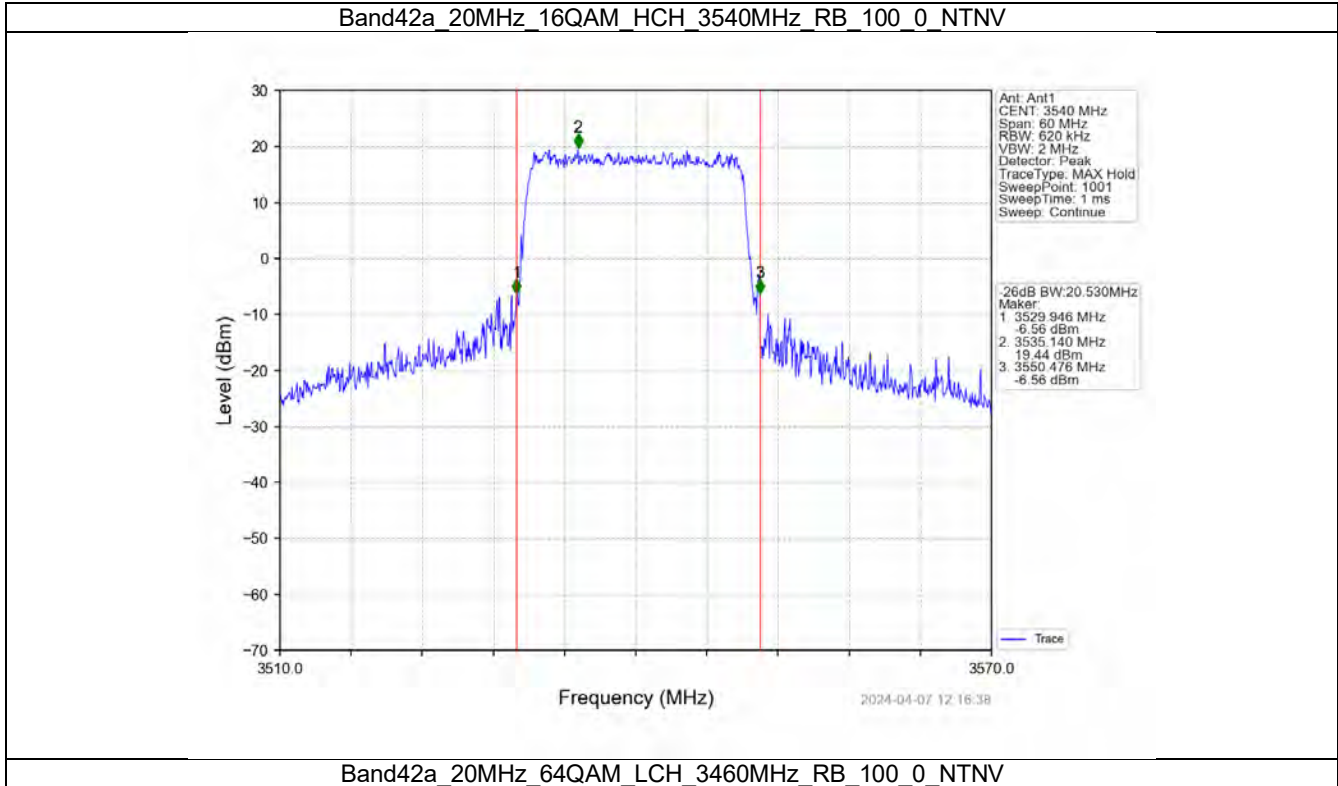


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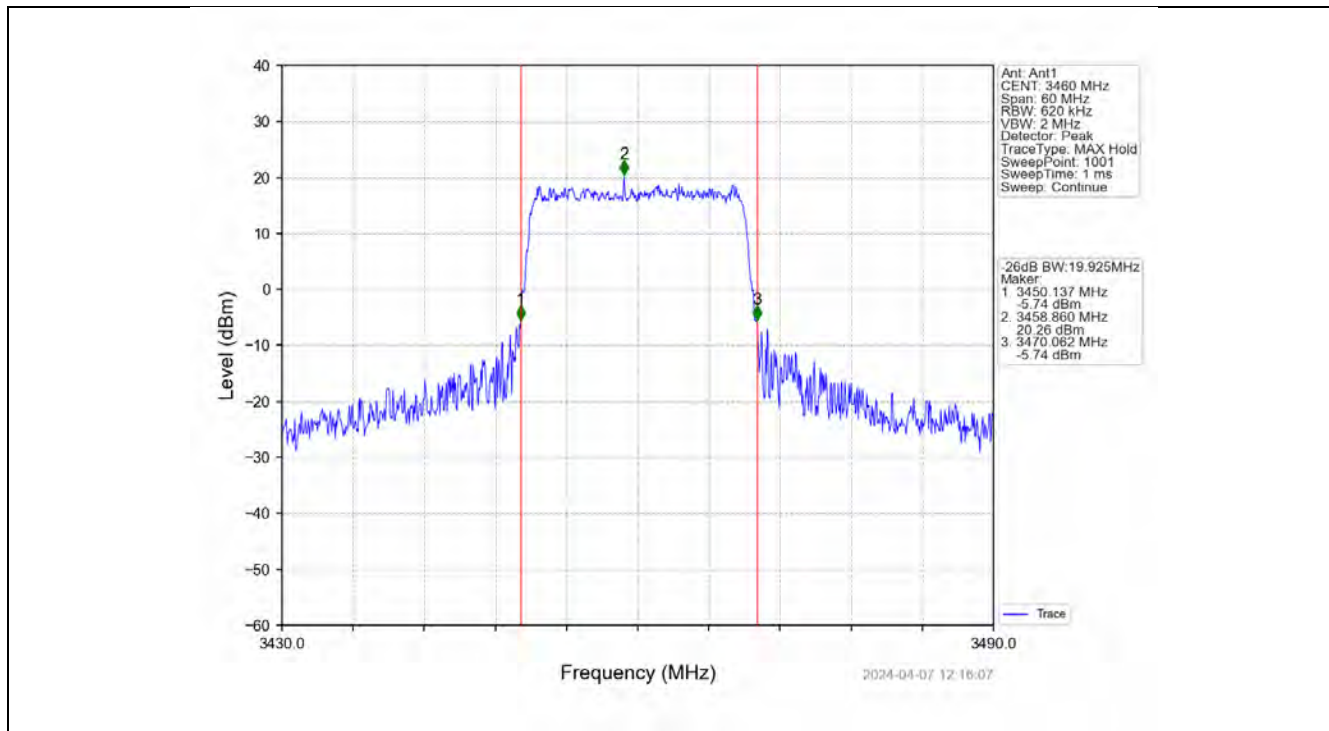
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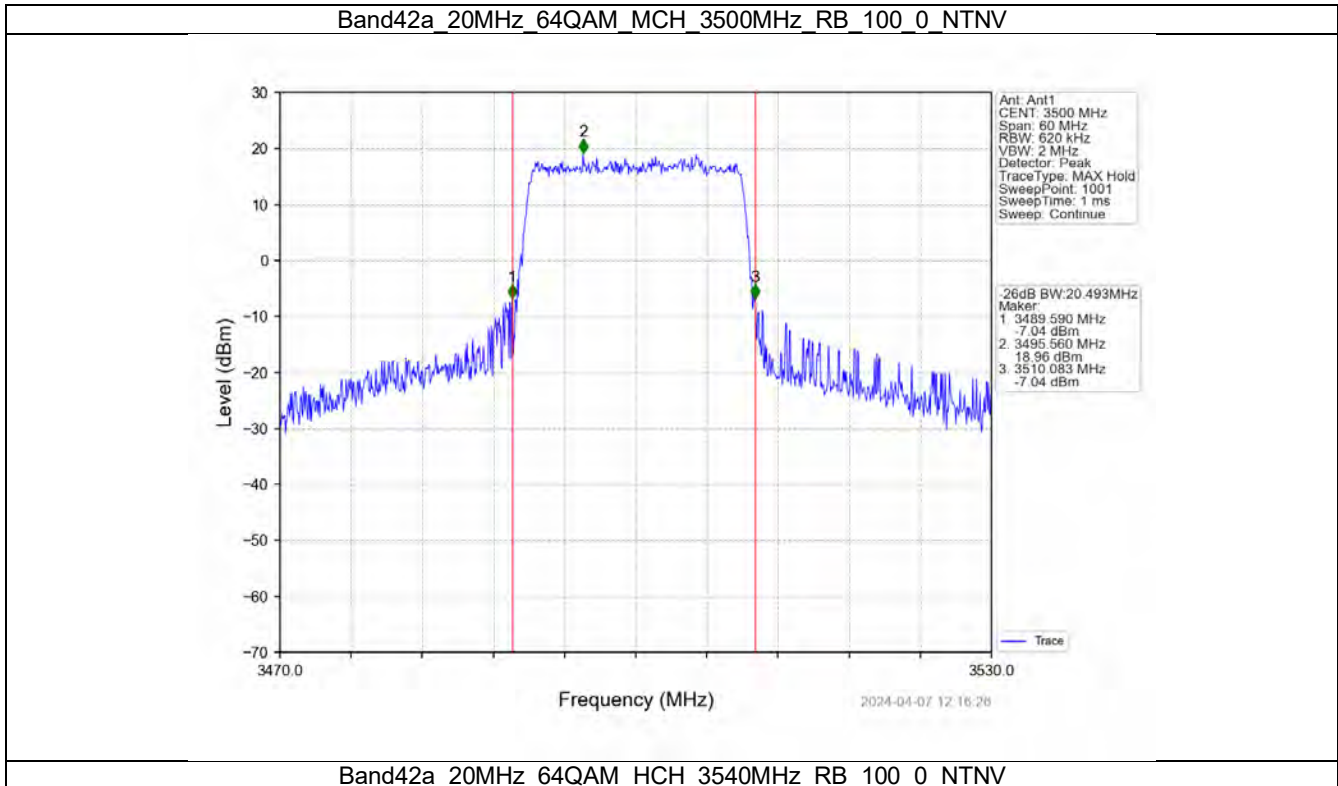


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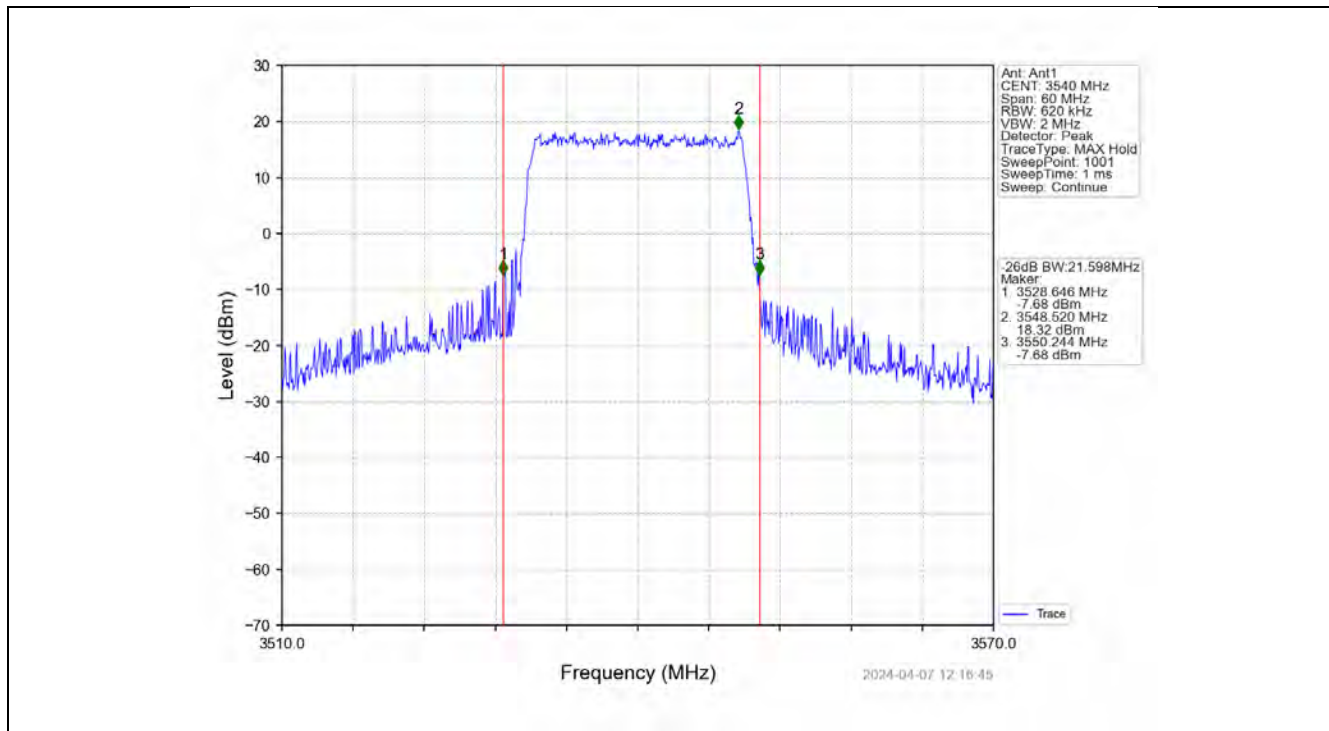
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## 4. Peak-Average Ratio

### 4.1 B42a\_5MHz

#### 4.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	25	0	9.20	<=13	Pass
	3500	25	0	9.76	<=13	Pass
	3547.5	25	0	9.32	<=13	Pass
16QAM	3452.5	25	0	10.20	<=13	Pass
	3500	25	0	10.29	<=13	Pass
	3547.5	25	0	10.13	<=13	Pass
64QAM	3452.5	25	0	10.39	<=13	Pass
	3500	25	0	10.21	<=13	Pass
	3547.5	25	0	10.46	<=13	Pass



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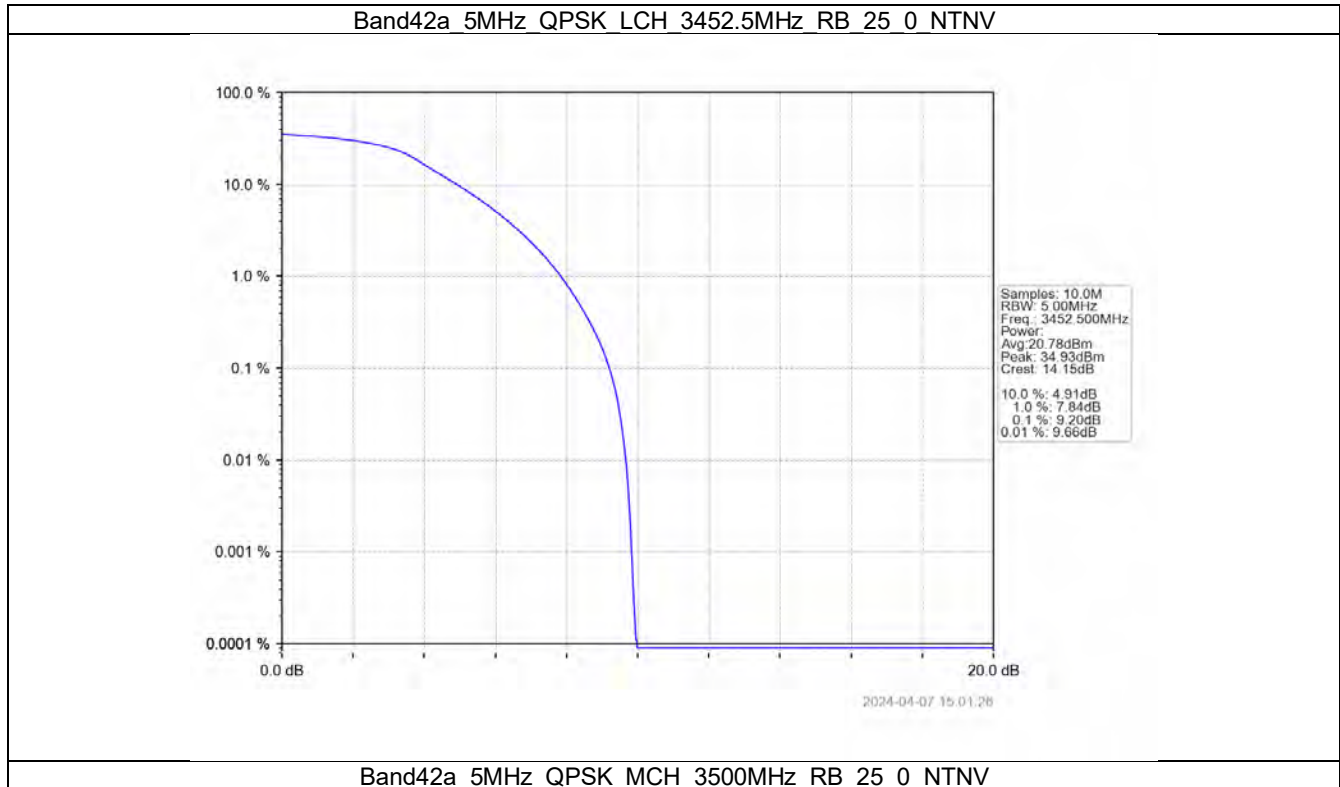
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4.1.2 Test Graph



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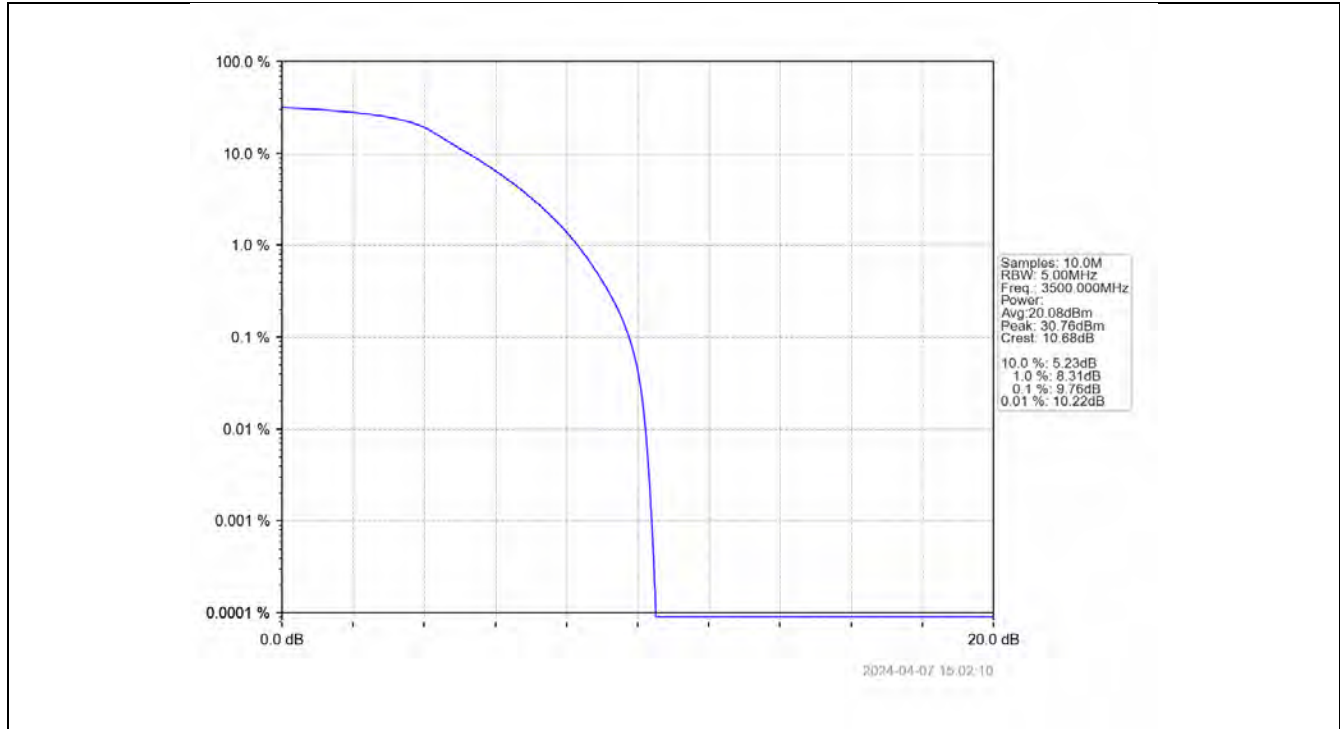


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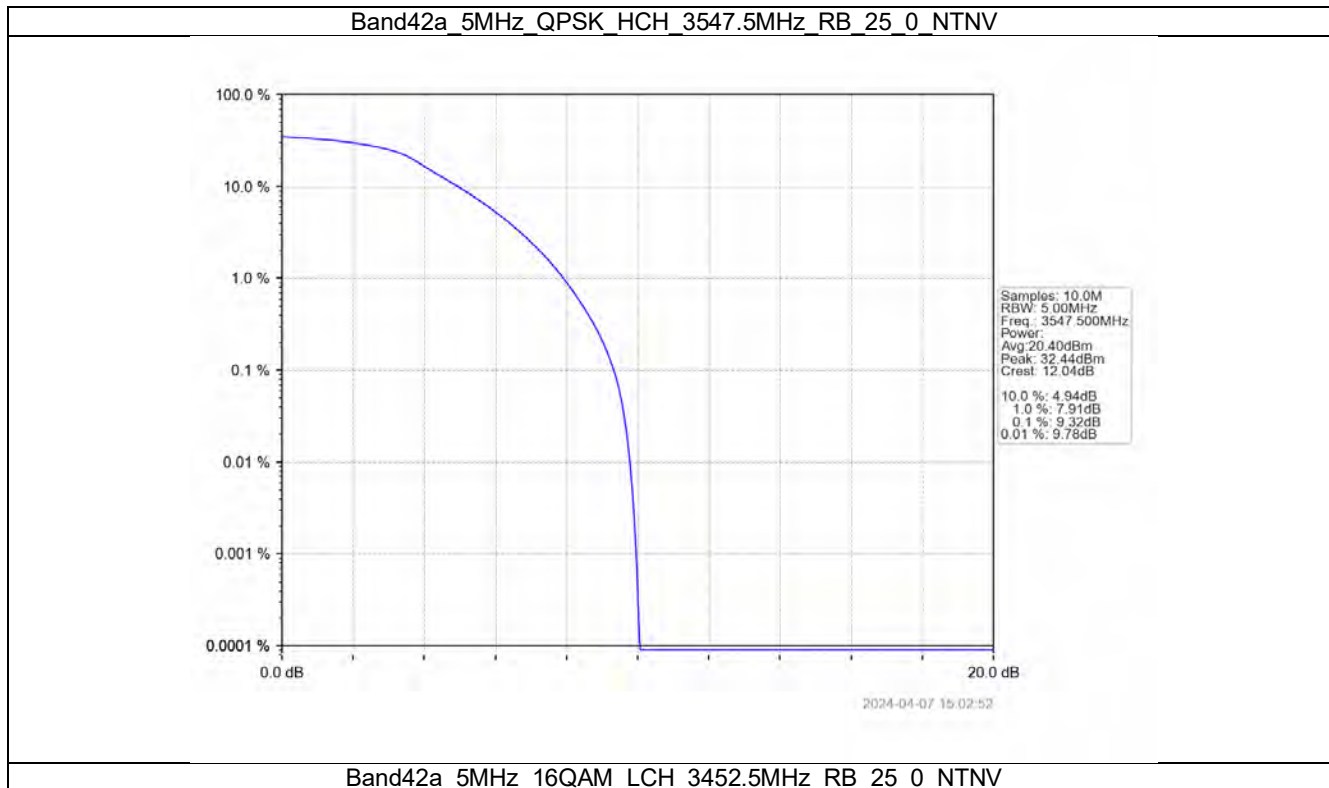
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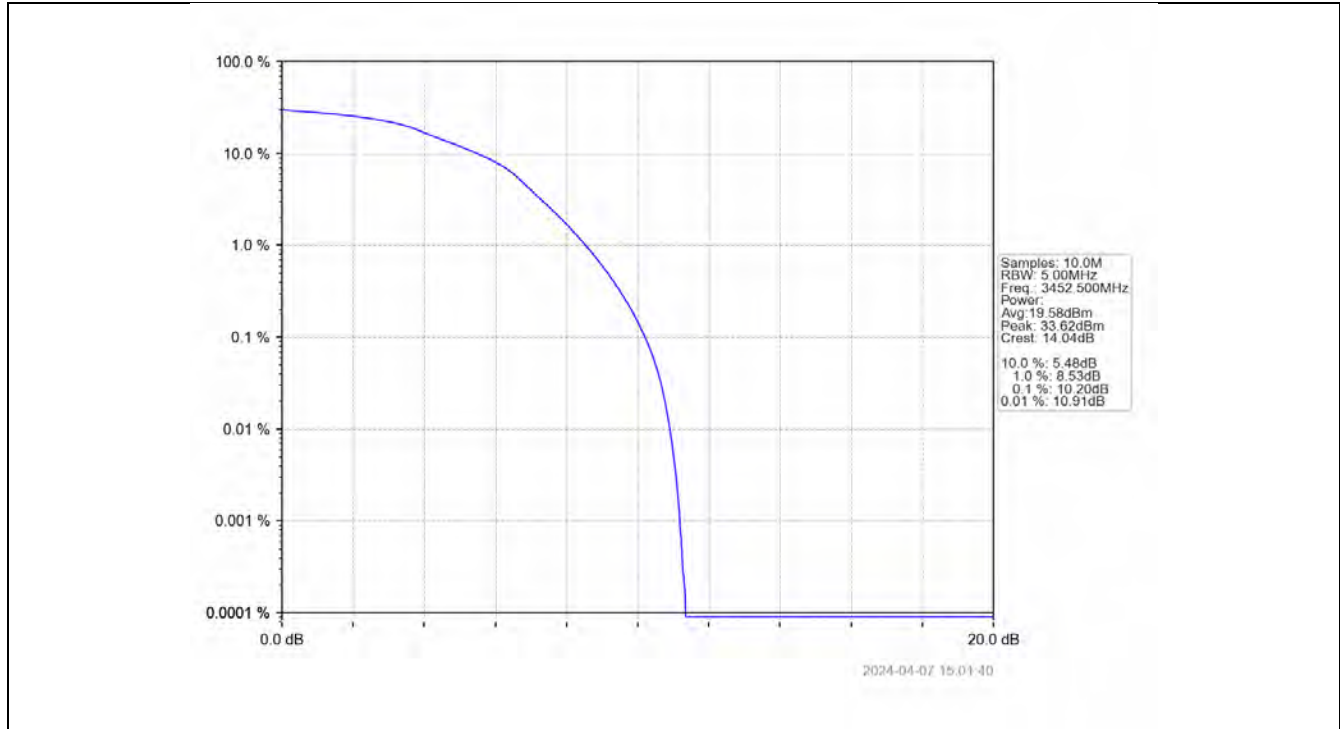


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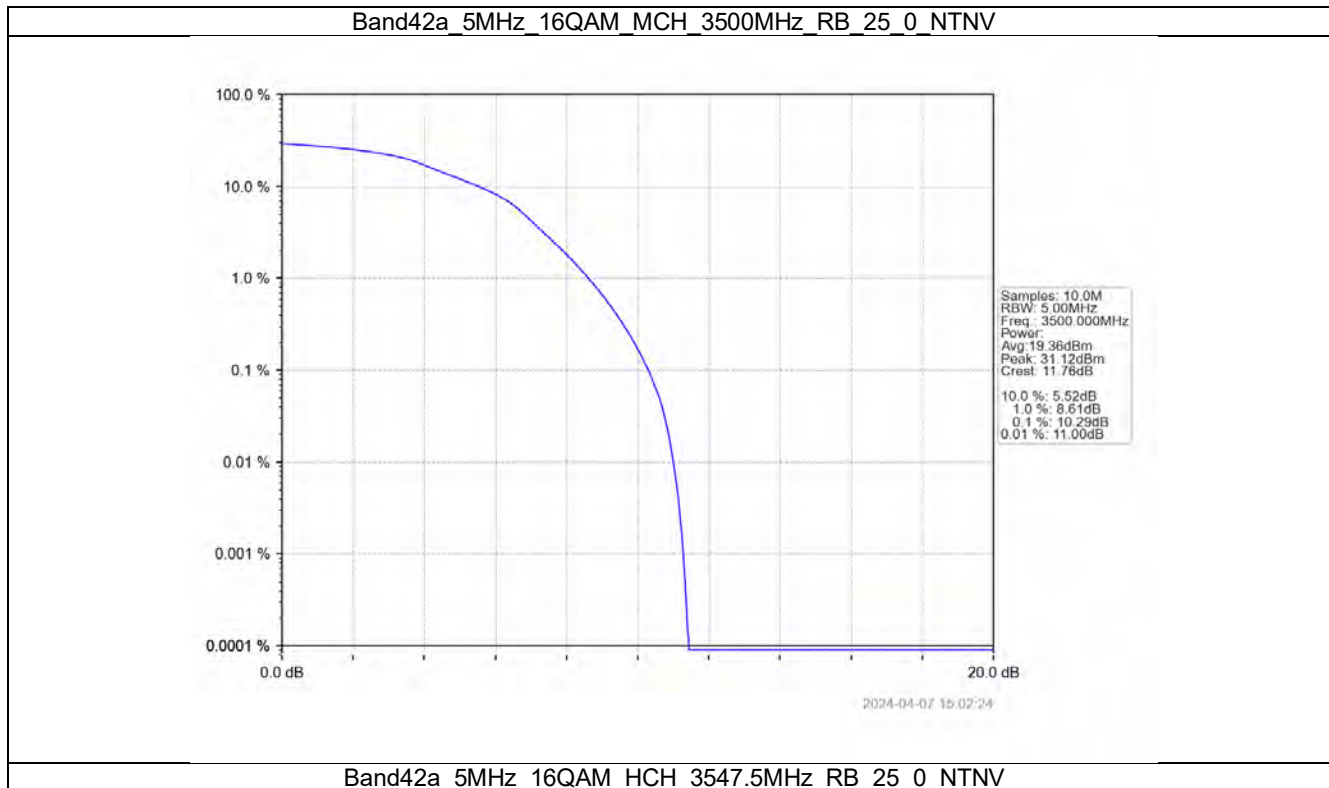
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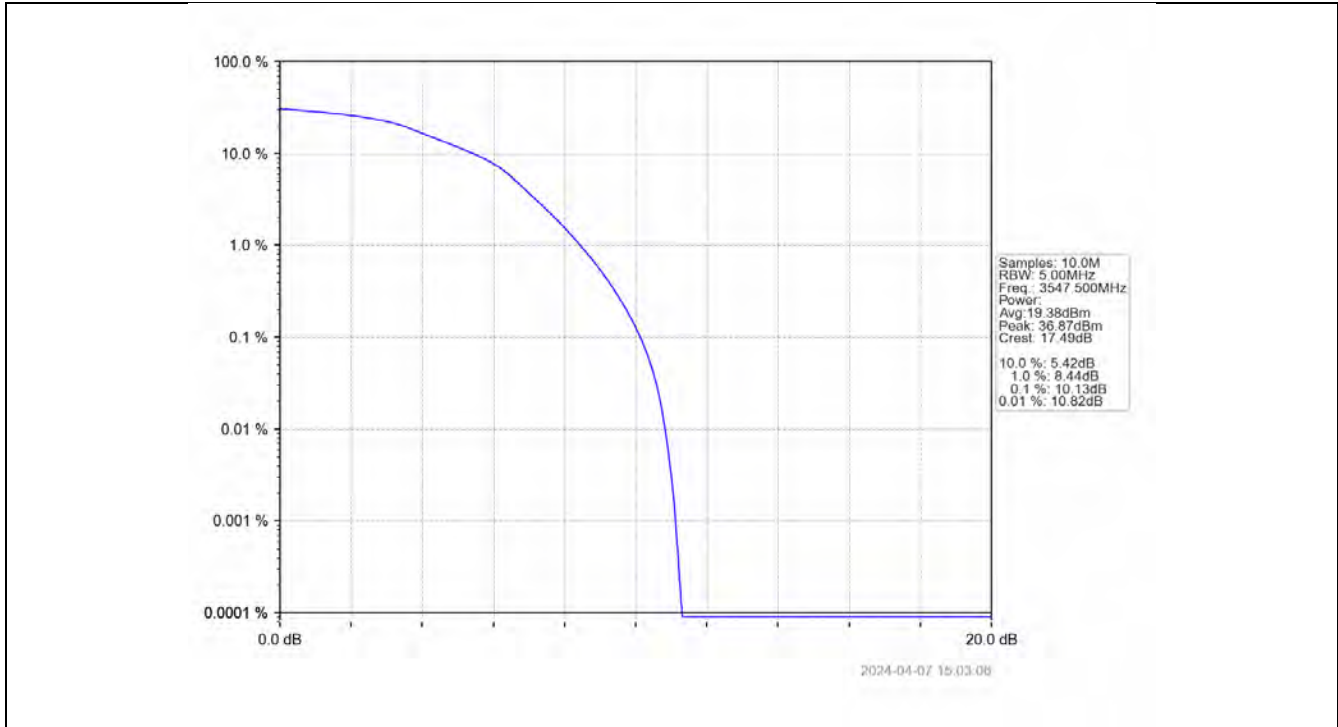


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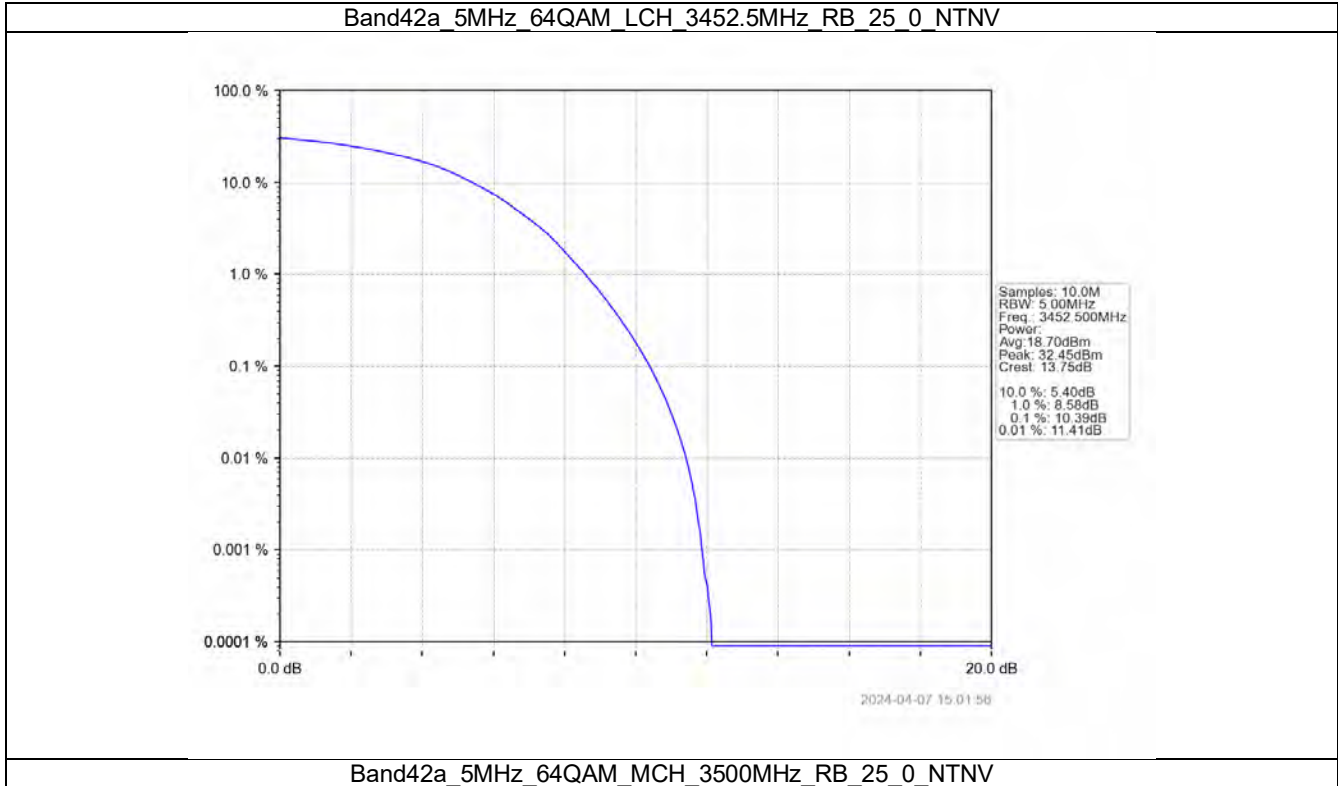


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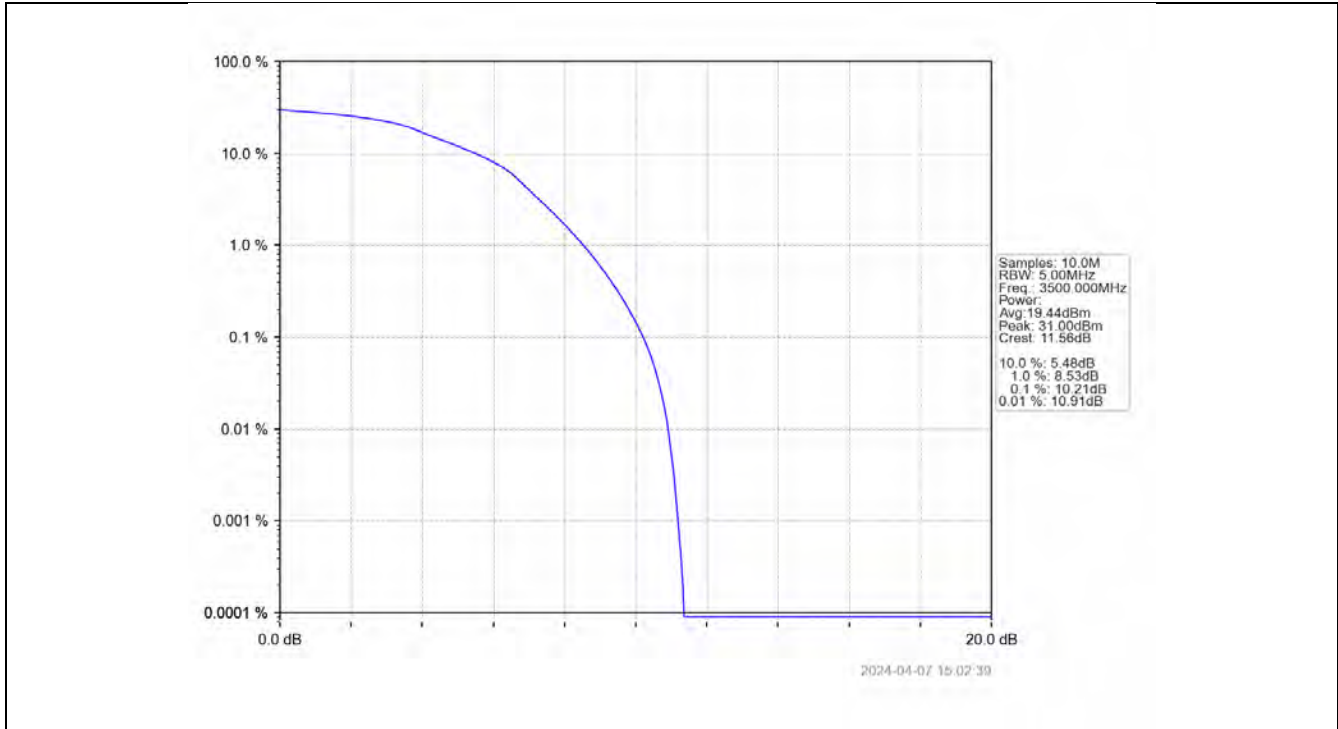


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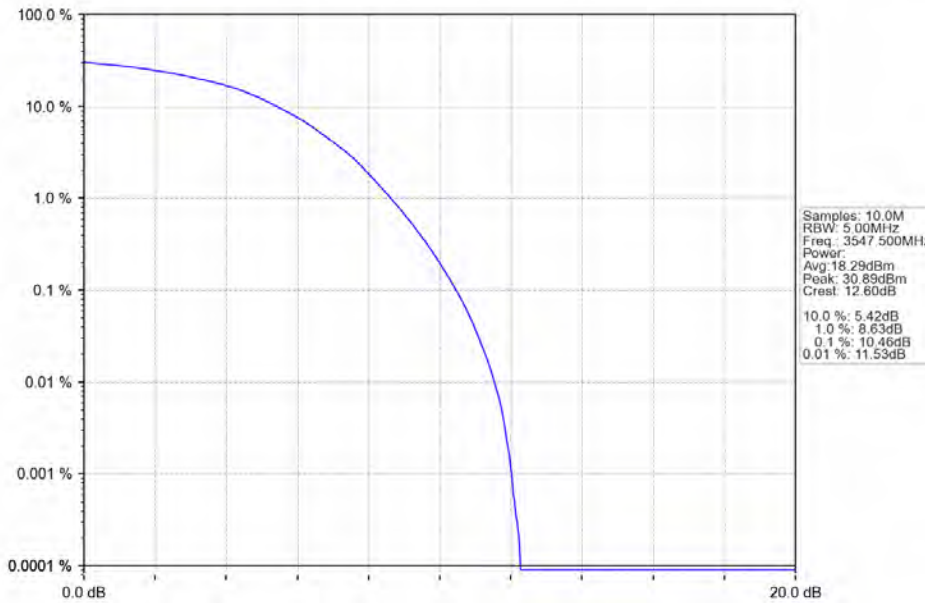
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Band42a\_5MHz\_64QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 3547.500MHz  
Power:  
Avg: 18.29dBm  
Peak: 30.89dBm  
Crest: 12.60dB

2024-04-07 15:03:22



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## 4.2 B42a\_10MHz

### 4.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	50	0	9.37	<=13	Pass
	3500	50	0	9.50	<=13	Pass
	3545	50	0	9.46	<=13	Pass
16QAM	3455	50	0	10.16	<=13	Pass
	3500	50	0	10.03	<=13	Pass
	3545	50	0	10.23	<=13	Pass
64QAM	3455	50	0	10.56	<=13	Pass
	3500	50	0	10.53	<=13	Pass
	3545	50	0	10.47	<=13	Pass



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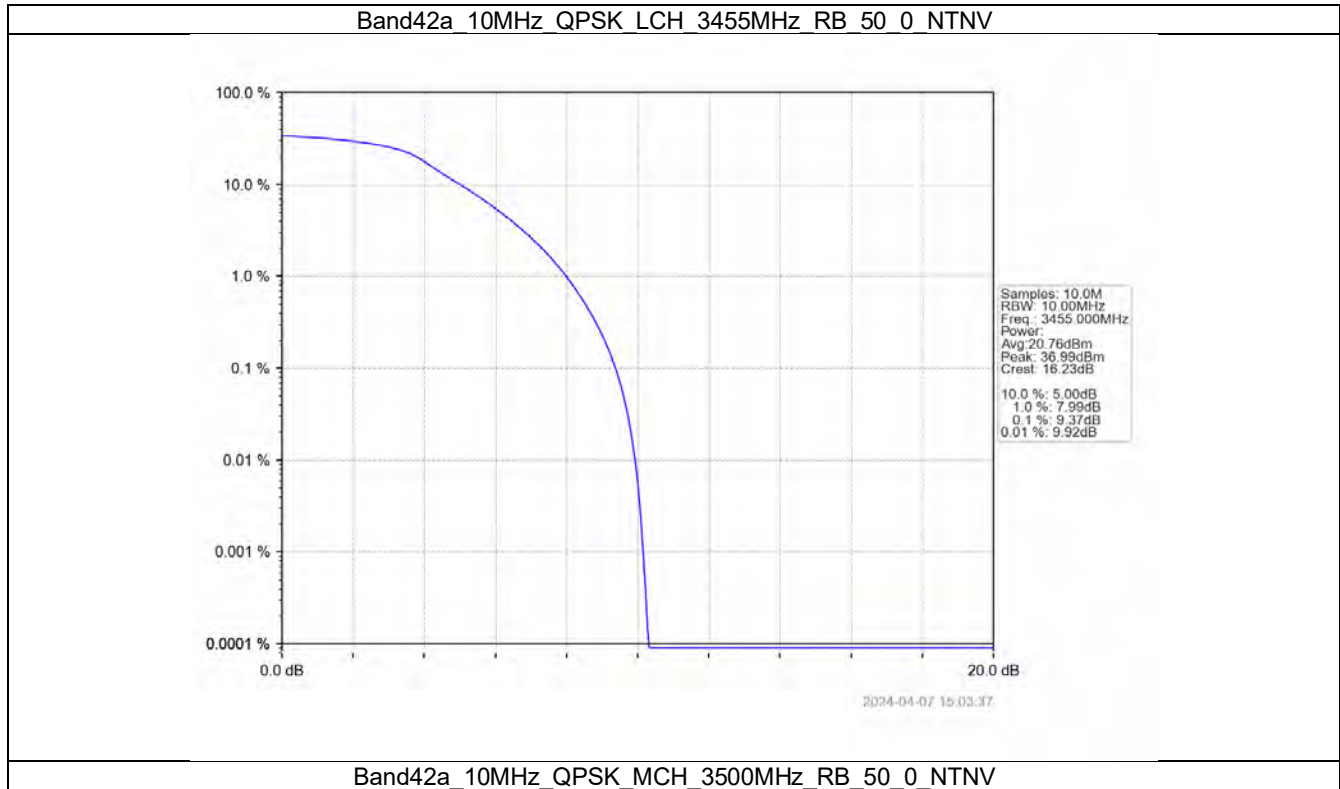
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4.2.2 Test Graph



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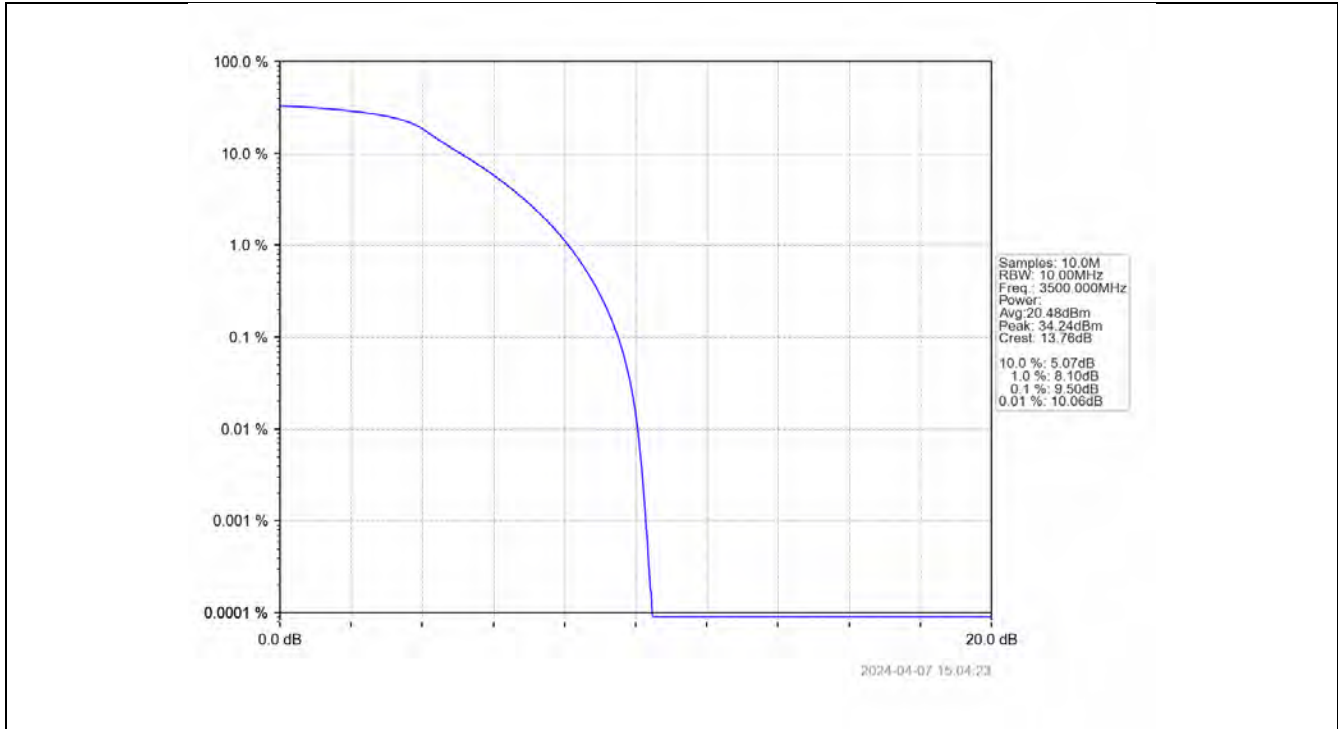


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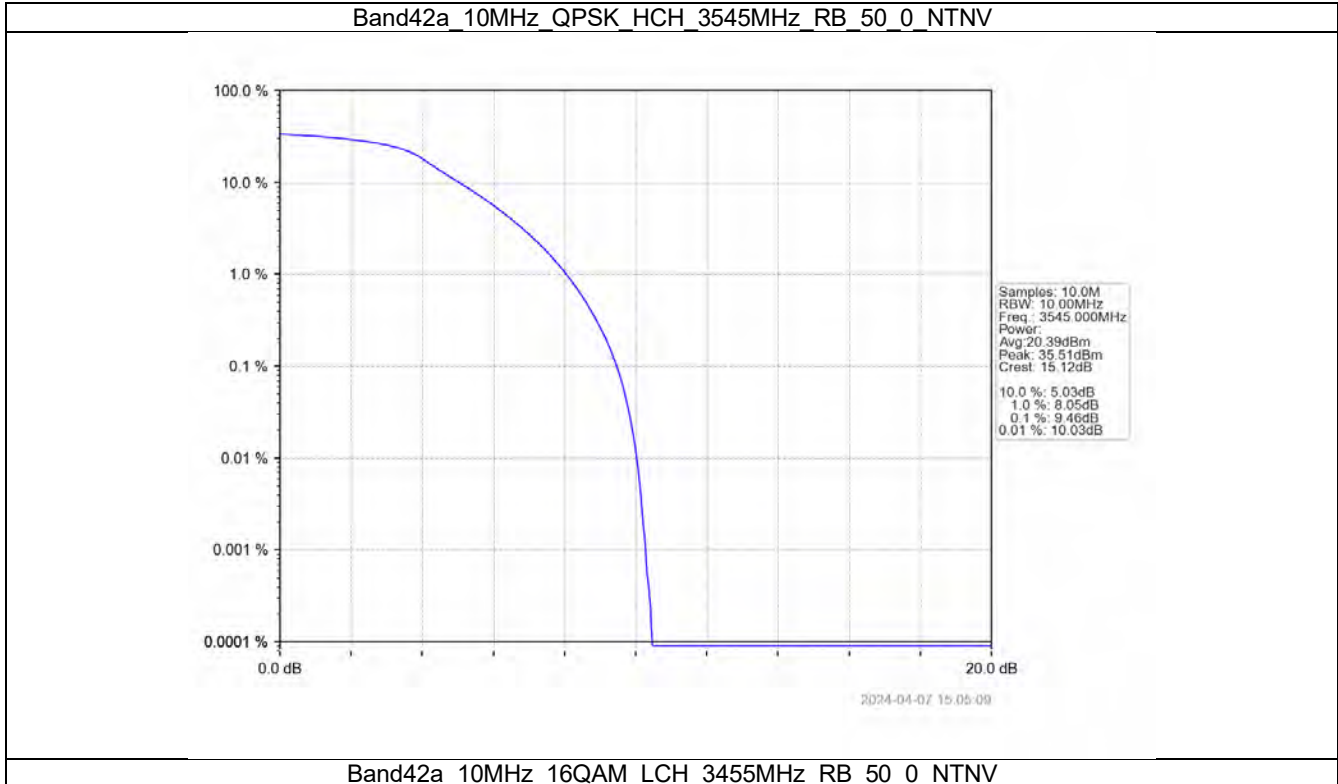


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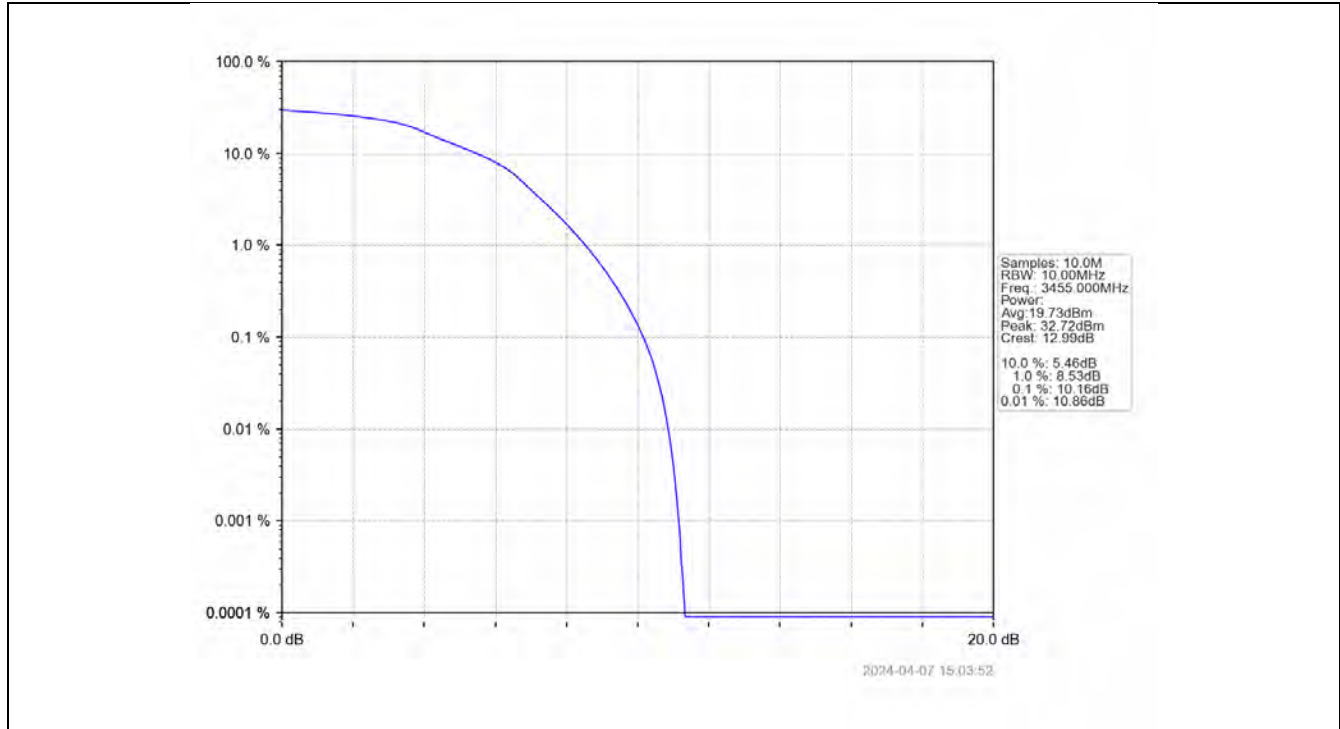


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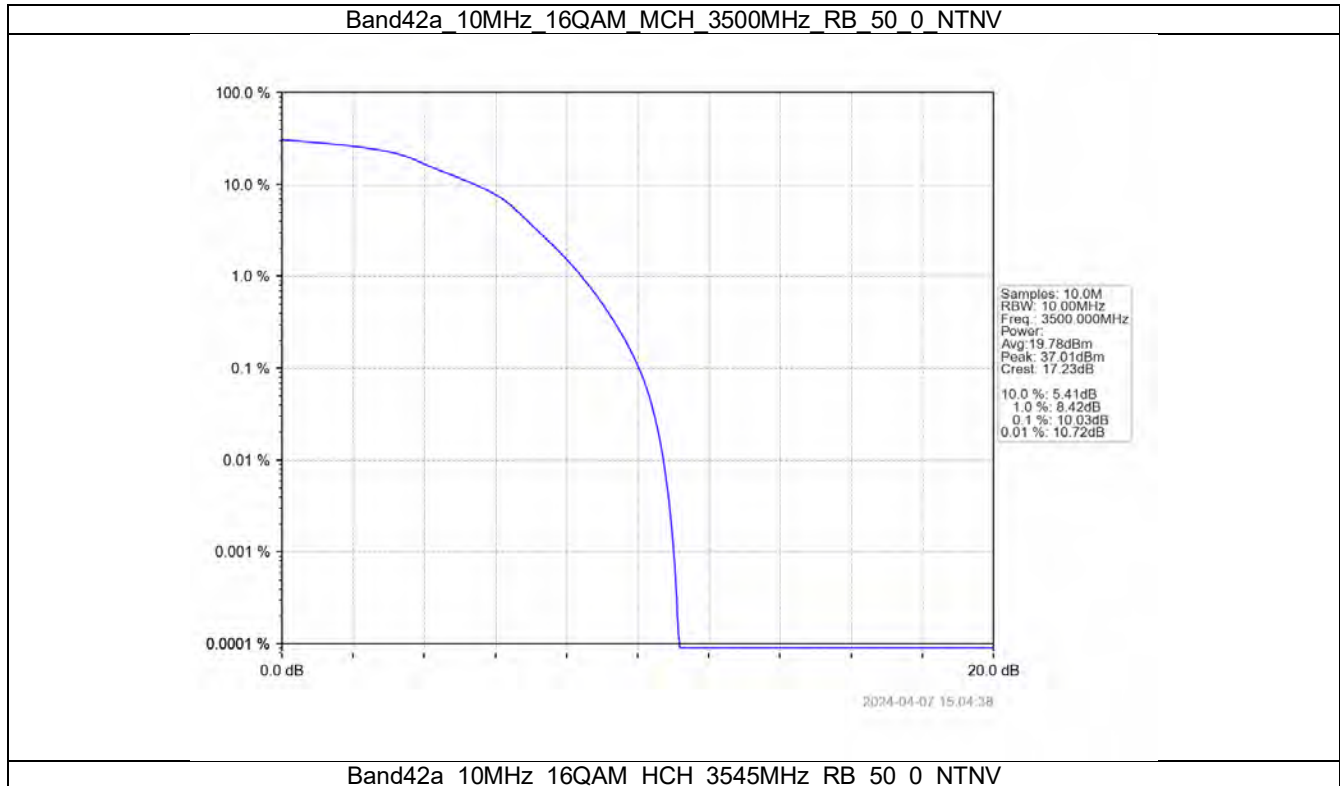
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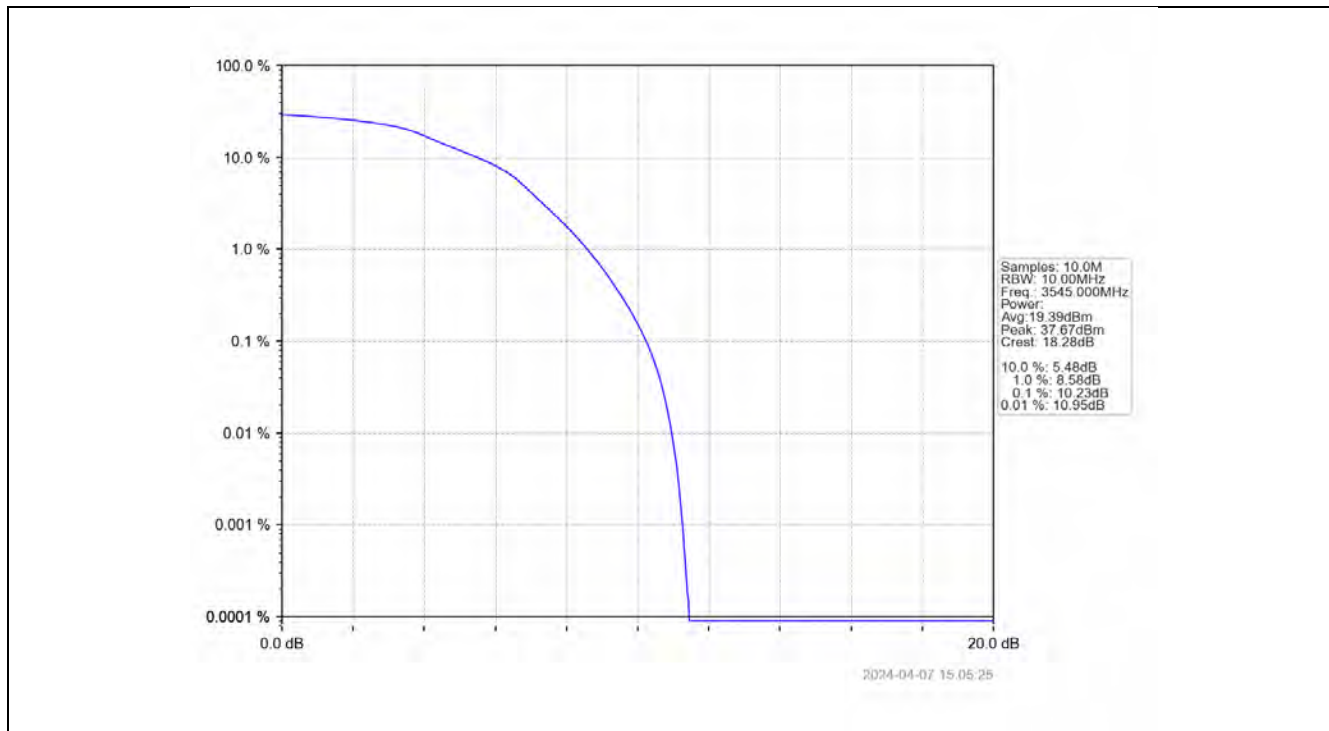
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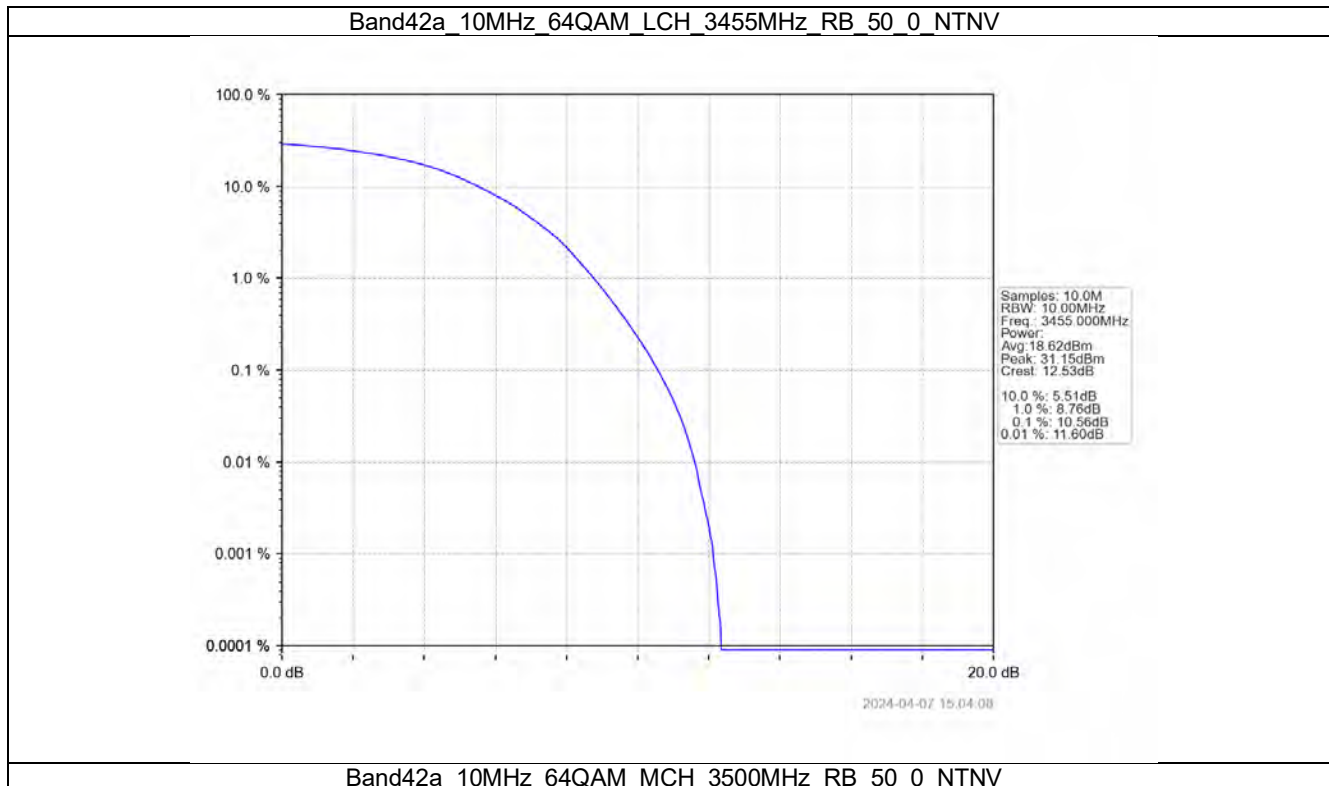
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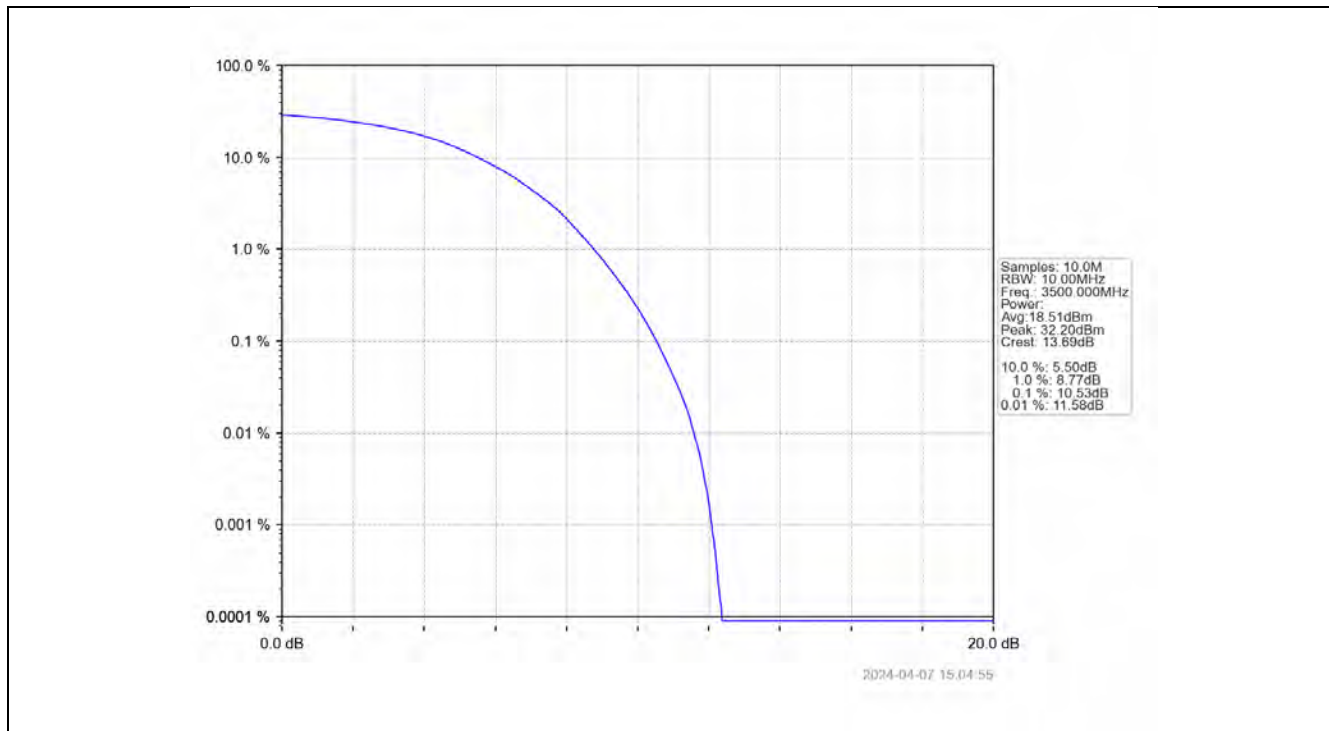
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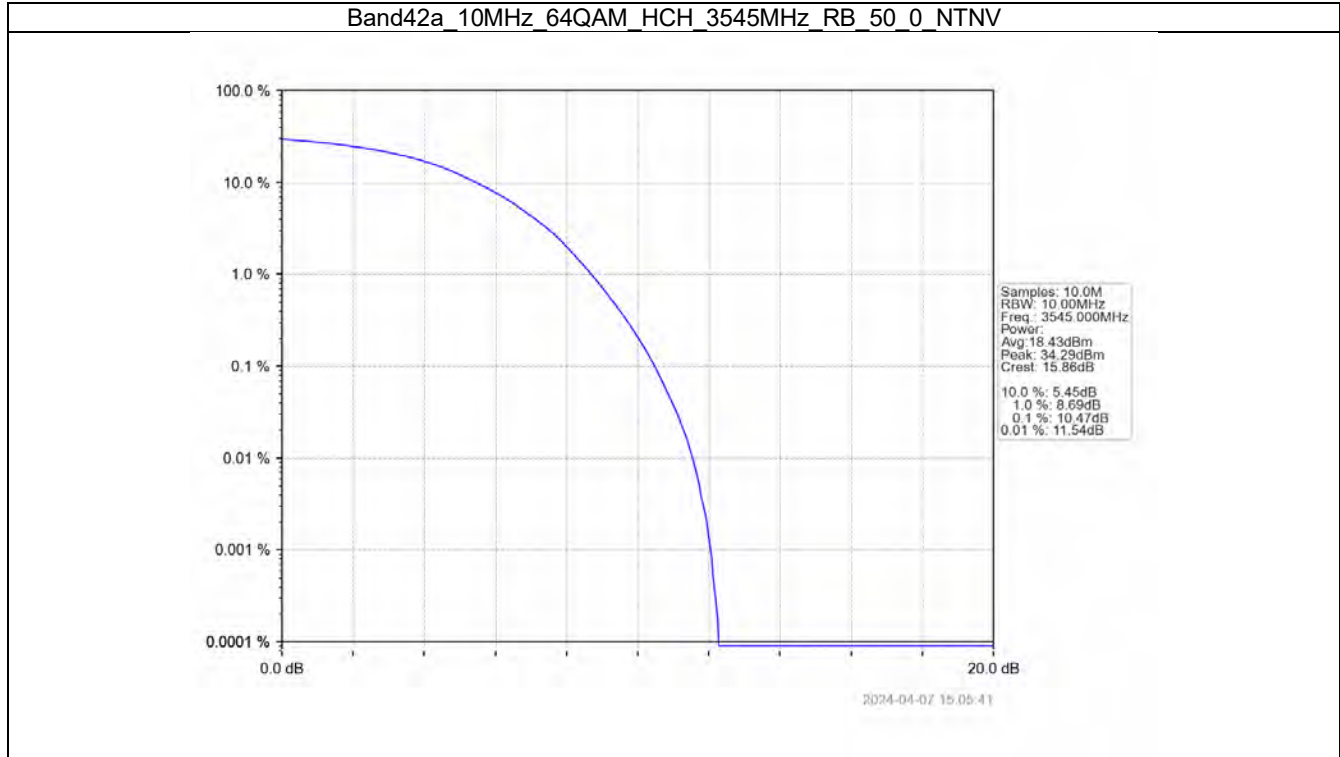


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## 4.3 B42a\_15MHz

### 4.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	75	0	9.34	<=13	Pass
	3500	75	0	8.82	<=13	Pass
	3542.5	75	0	9.25	<=13	Pass
16QAM	3457.5	75	0	10.22	<=13	Pass
	3500	75	0	10.17	<=13	Pass
	3542.5	75	0	9.99	<=13	Pass
64QAM	3457.5	75	0	10.66	<=13	Pass
	3500	75	0	10.96	<=13	Pass
	3542.5	75	0	10.42	<=13	Pass



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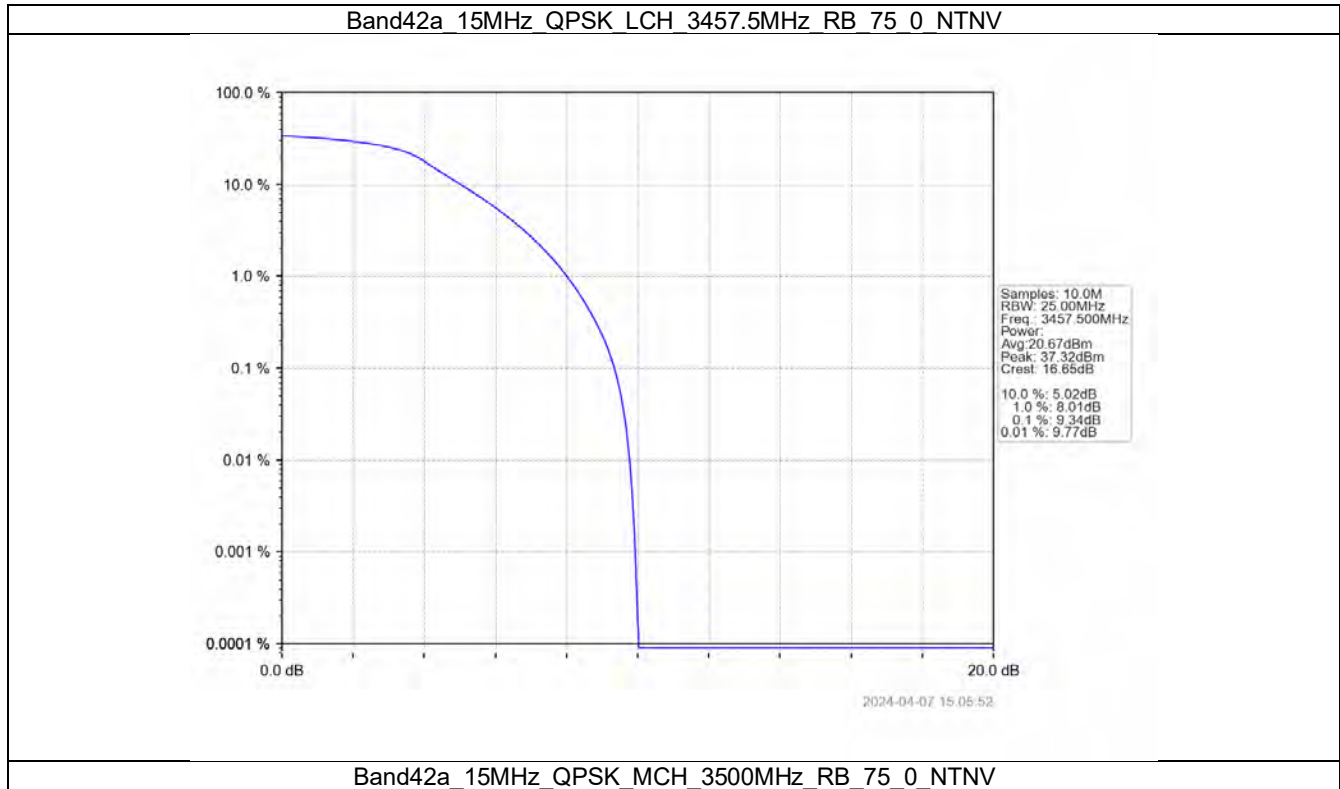
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## 4.3.2 Test Graph



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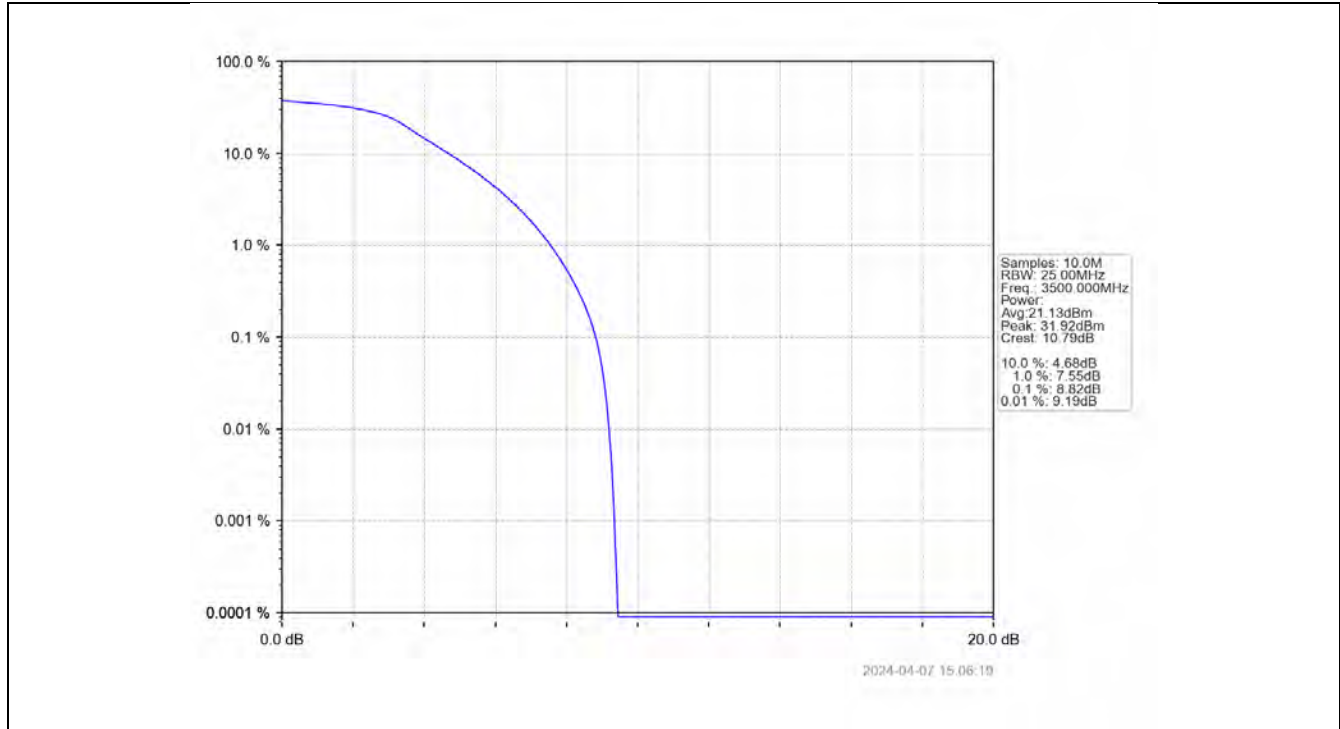


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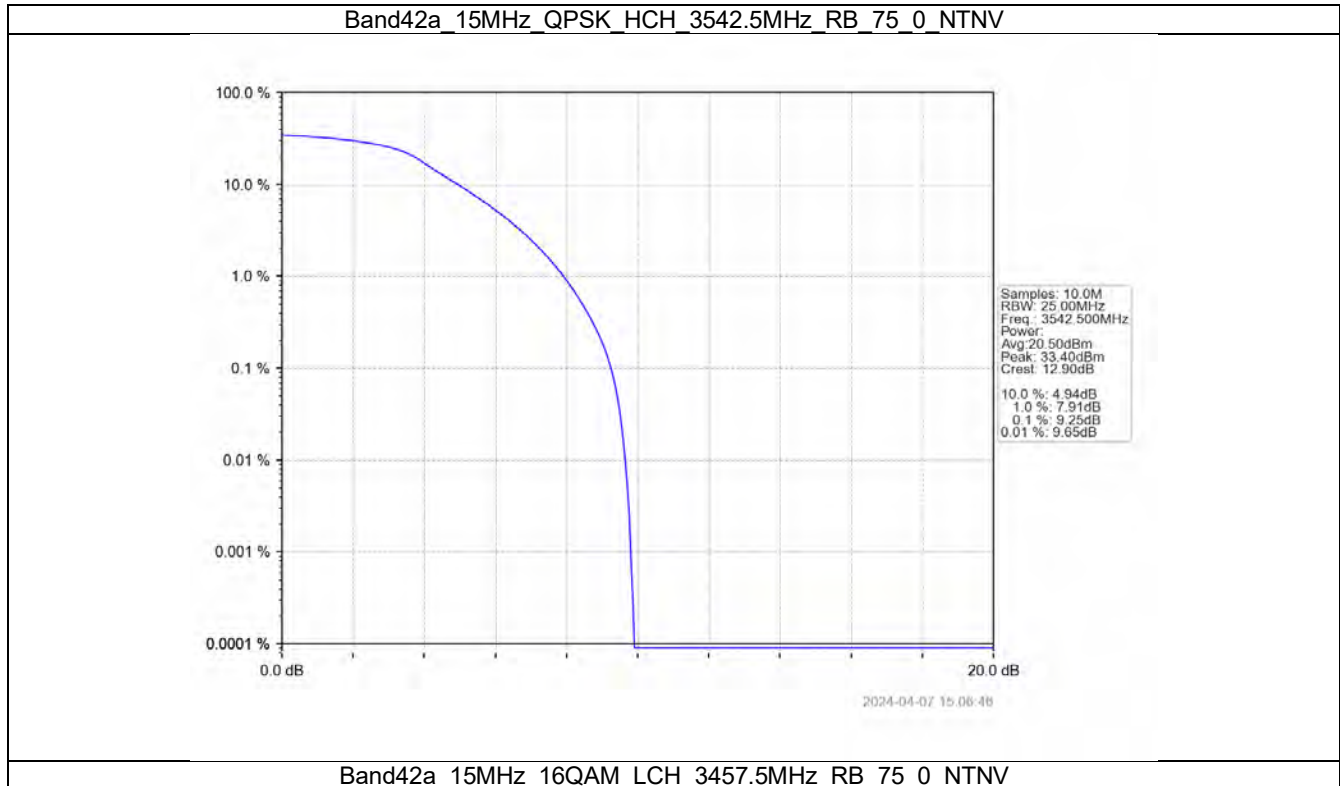


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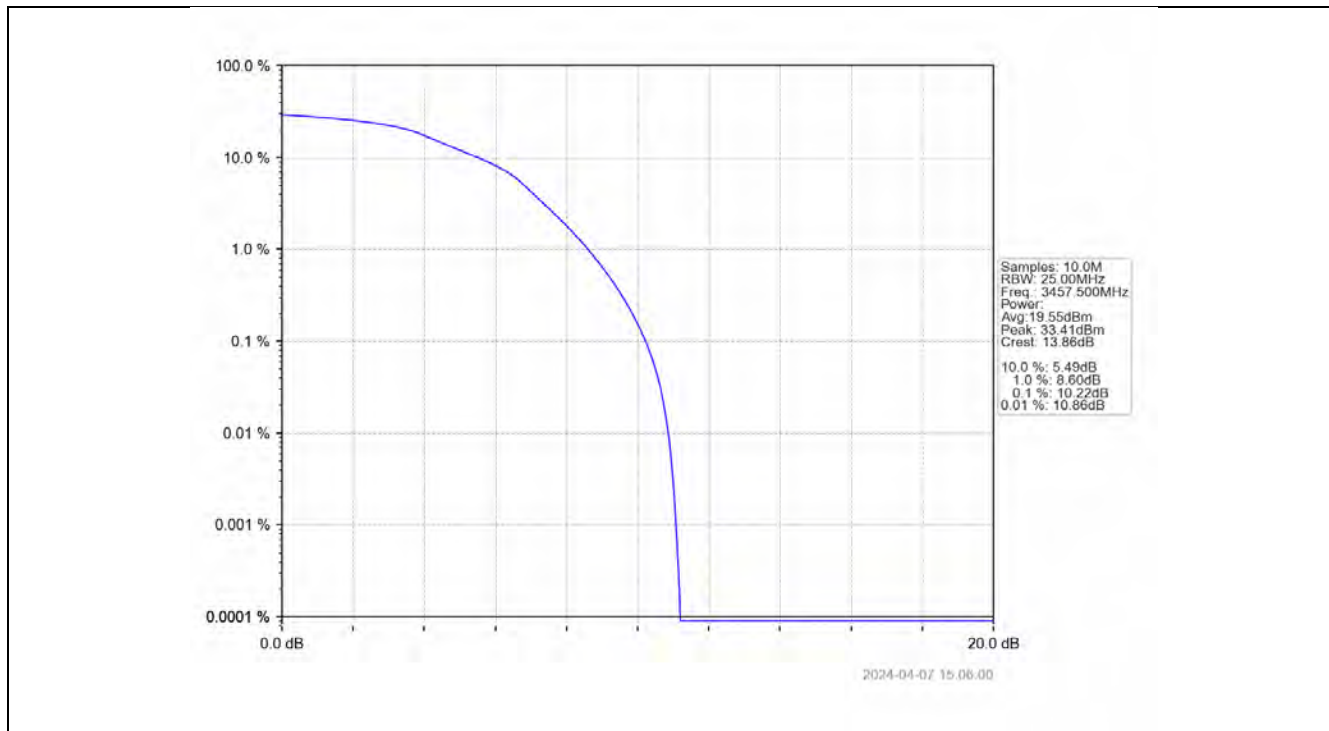
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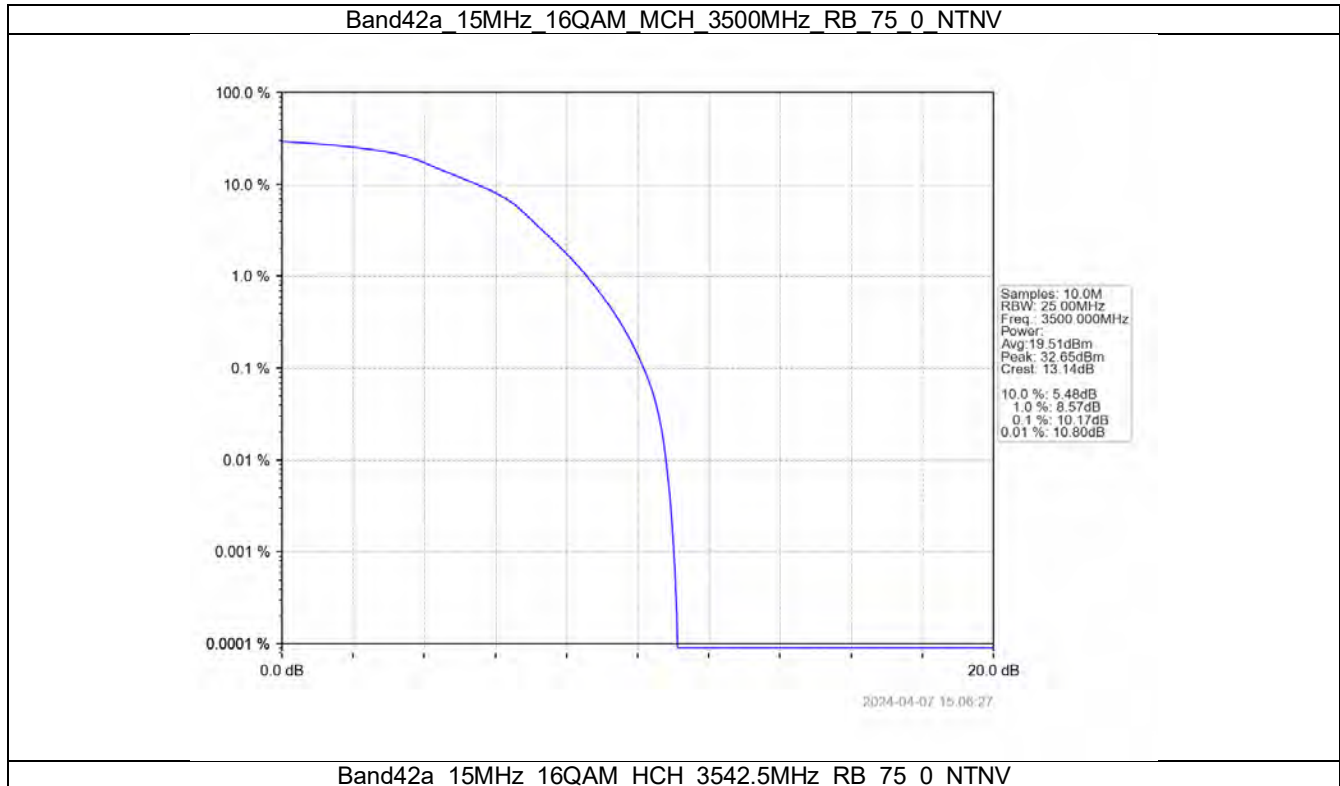


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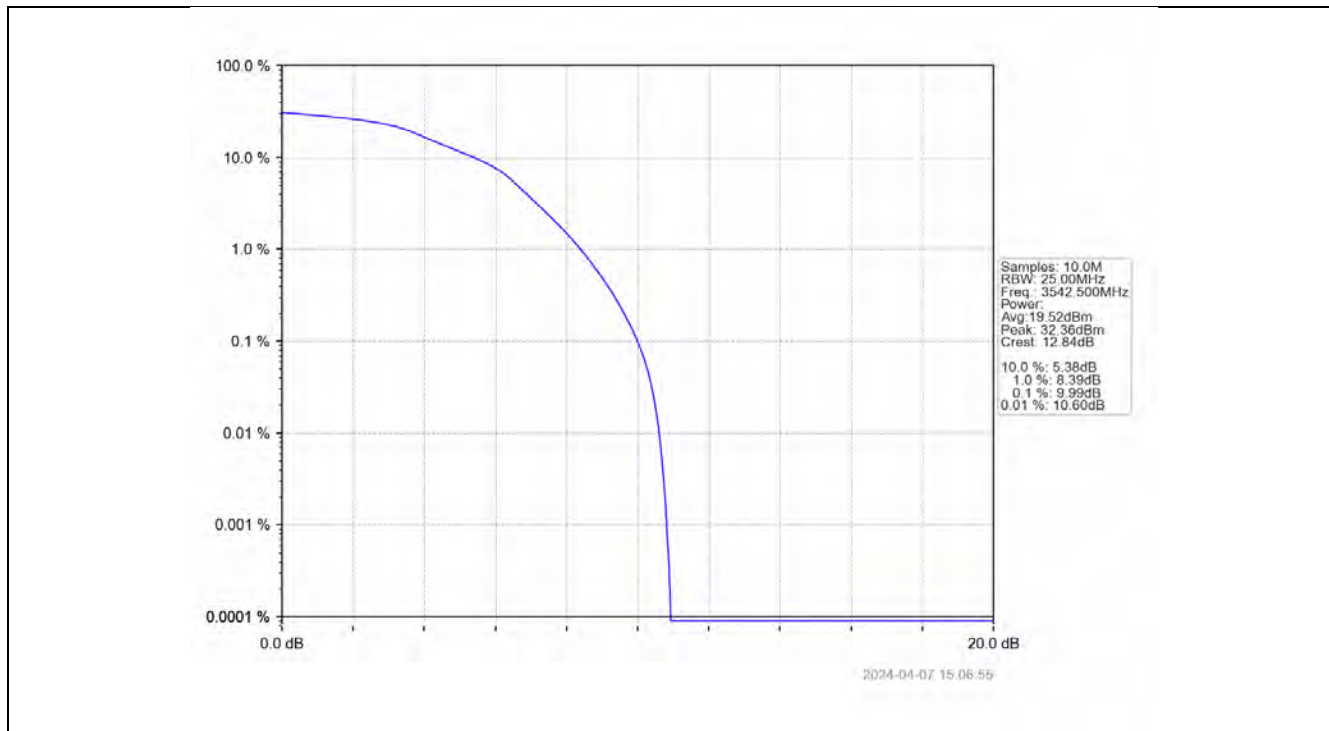
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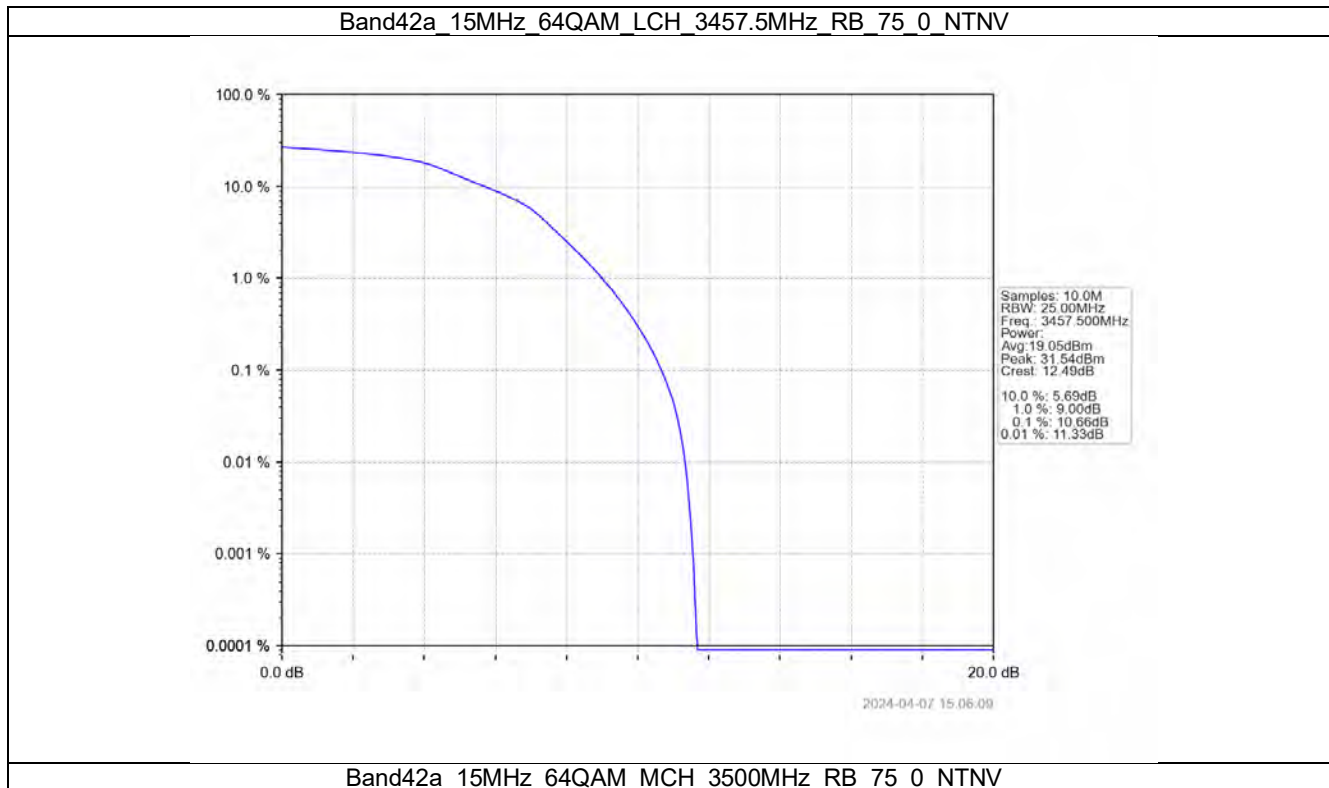
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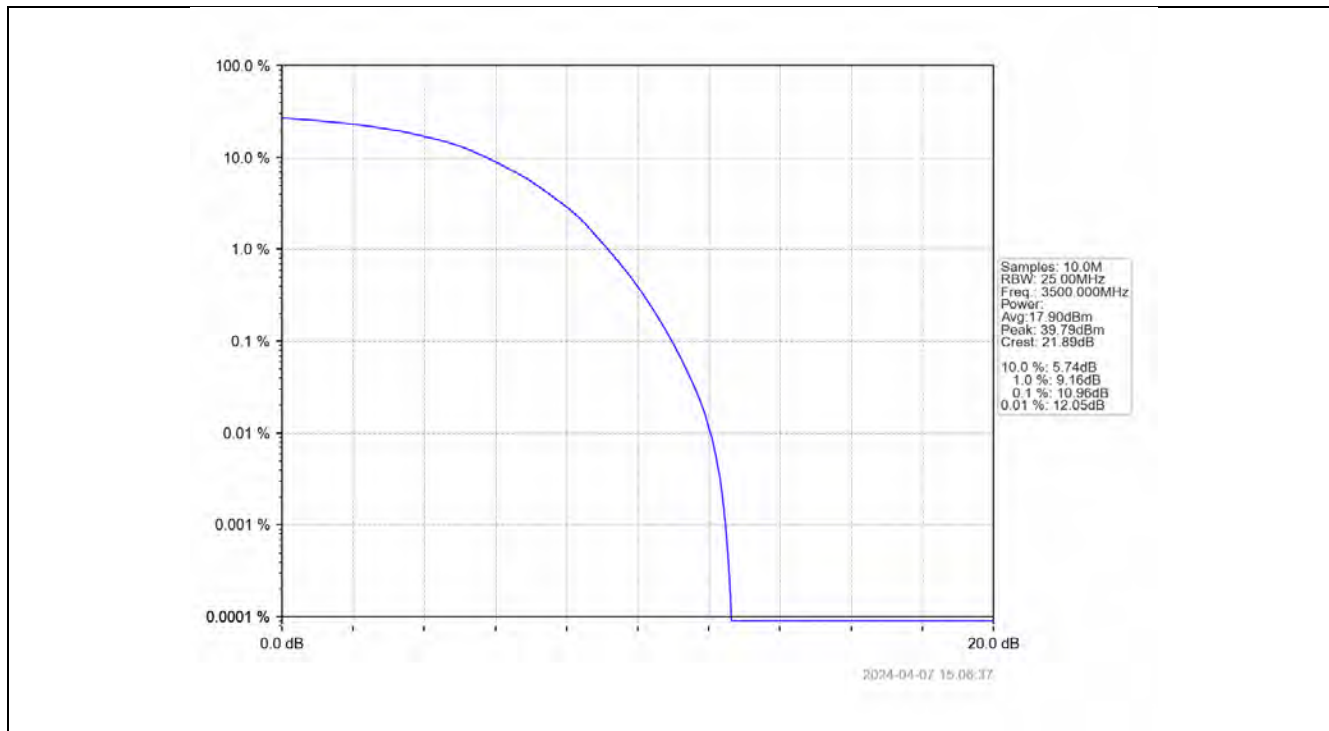
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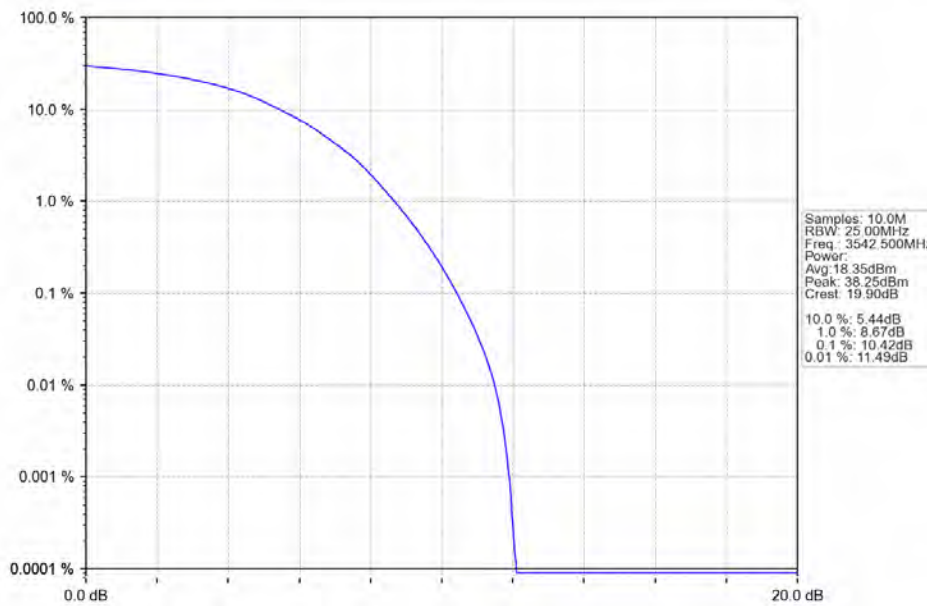
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Band42a 15MHz 64QAM HCH 3542.5MHz RB 75\_0 NTV



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## 4.4 B42a\_20MHz

### 4.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3460	100	0	9.20	<=13	Pass
	3500	100	0	9.01	<=13	Pass
	3540	100	0	9.35	<=13	Pass
16QAM	3460	100	0	9.89	<=13	Pass
	3500	100	0	9.73	<=13	Pass
	3540	100	0	10.02	<=13	Pass
64QAM	3460	100	0	10.18	<=13	Pass
	3500	100	0	10.87	<=13	Pass
	3540	100	0	10.78	<=13	Pass



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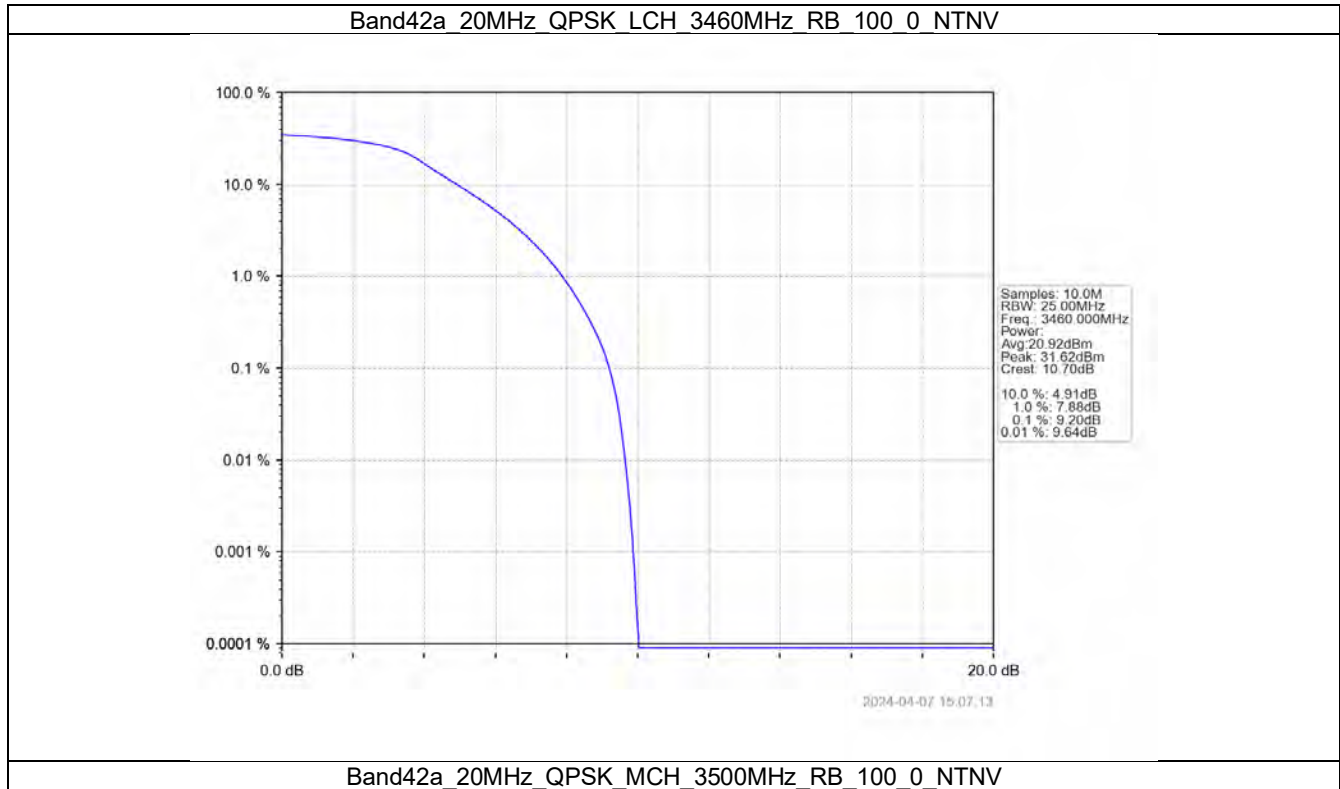
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4.4.2 Test Graph



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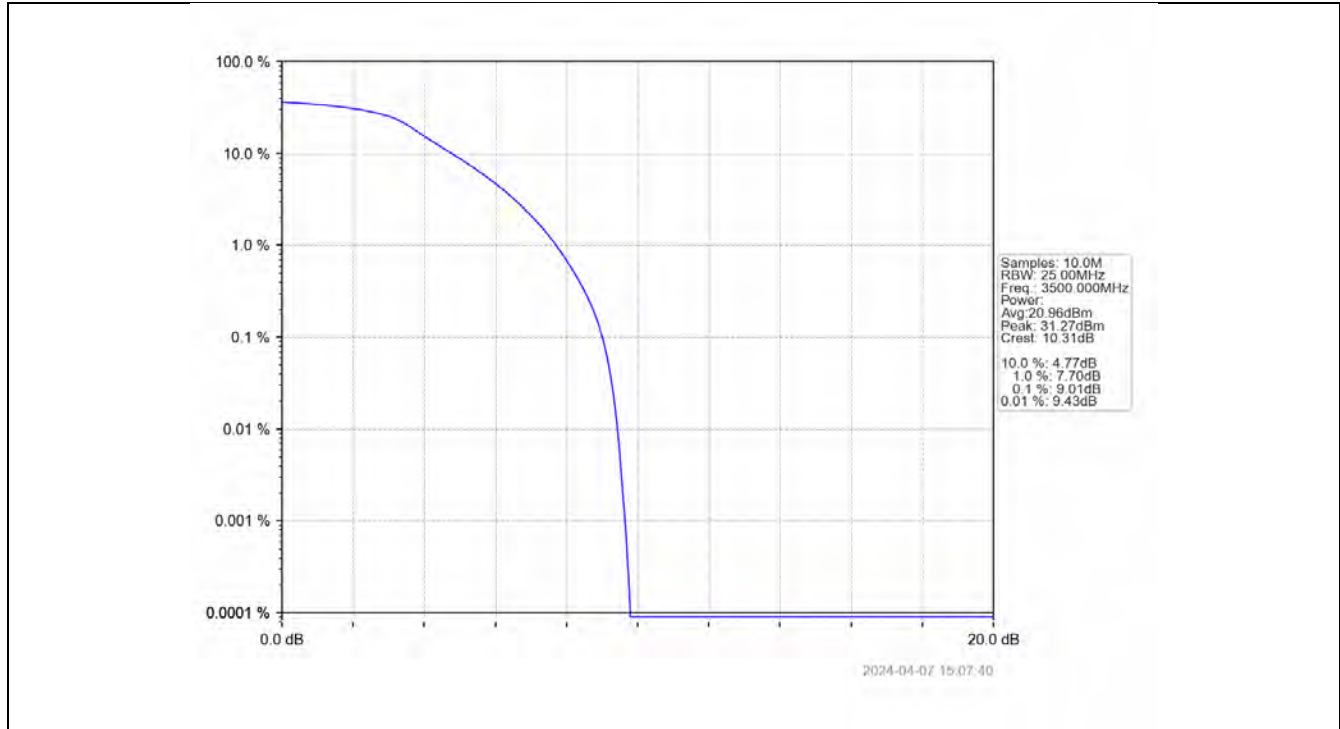


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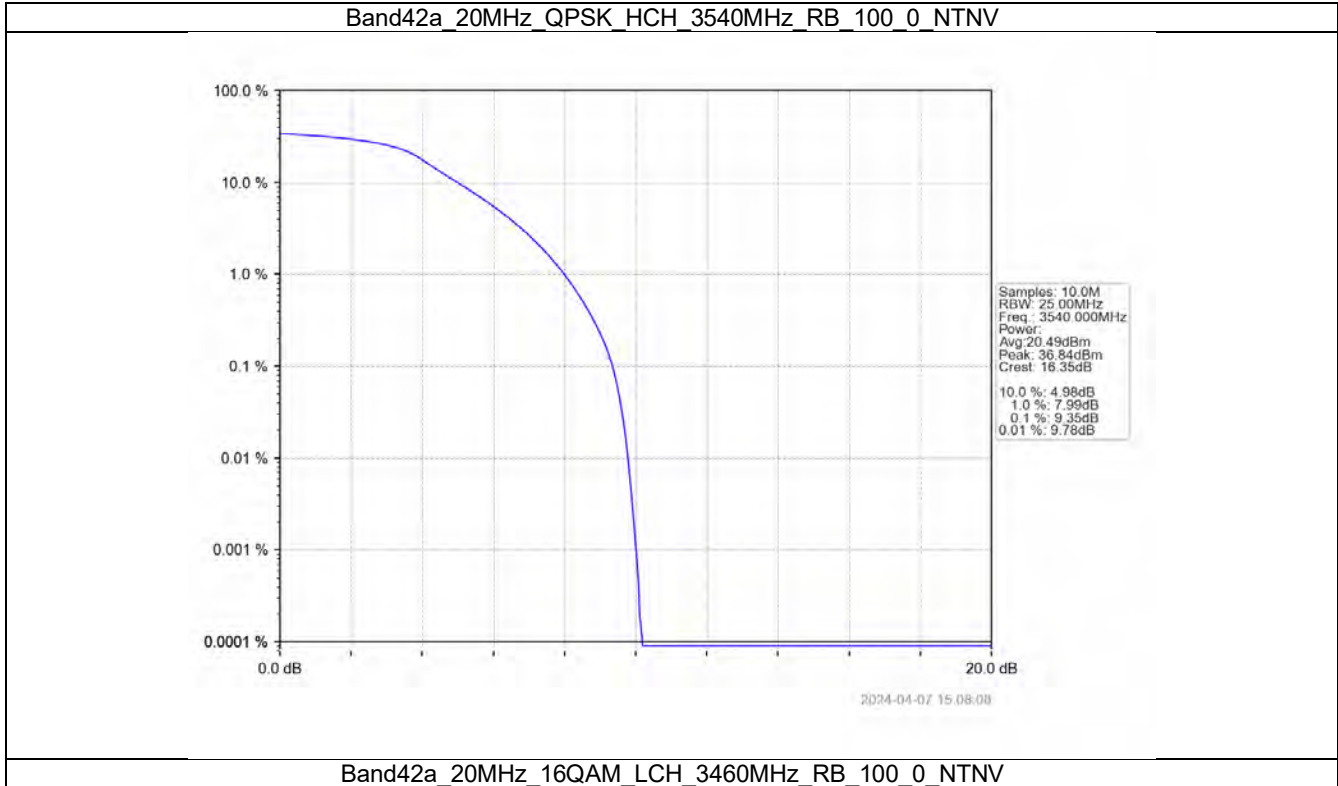


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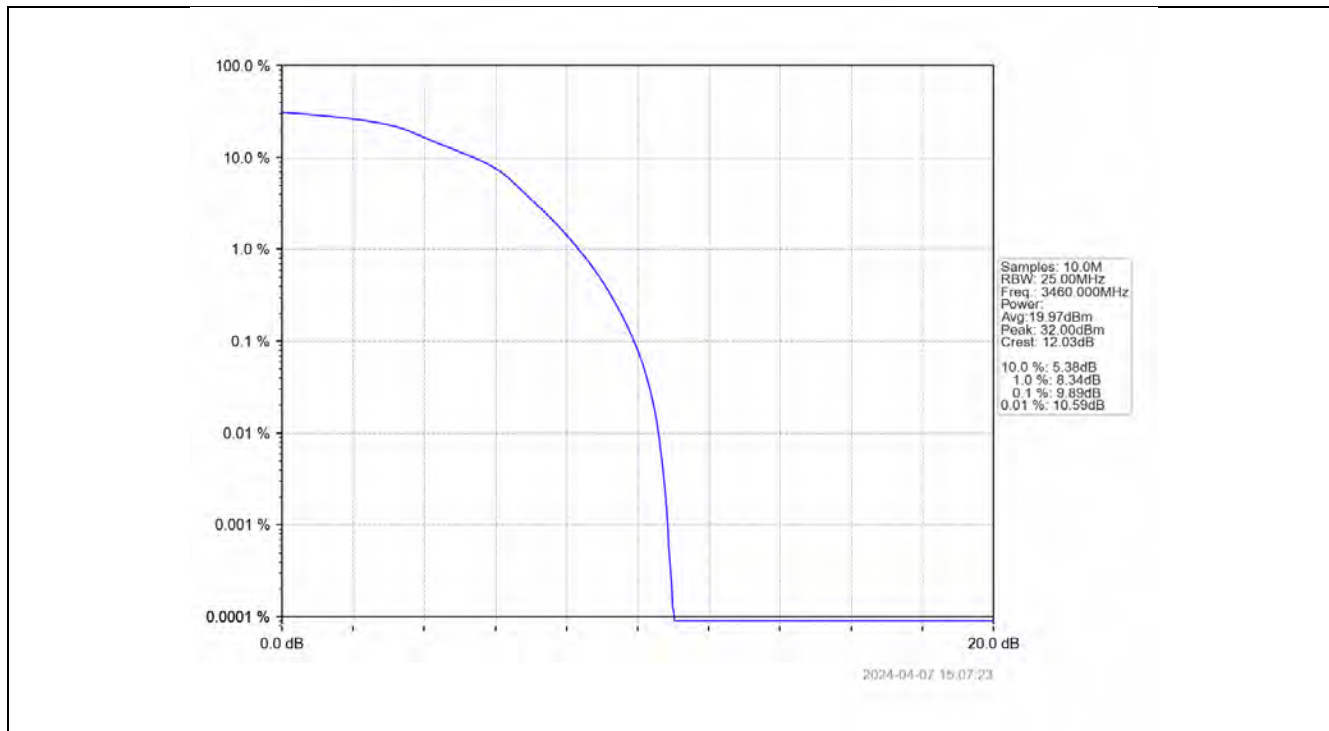
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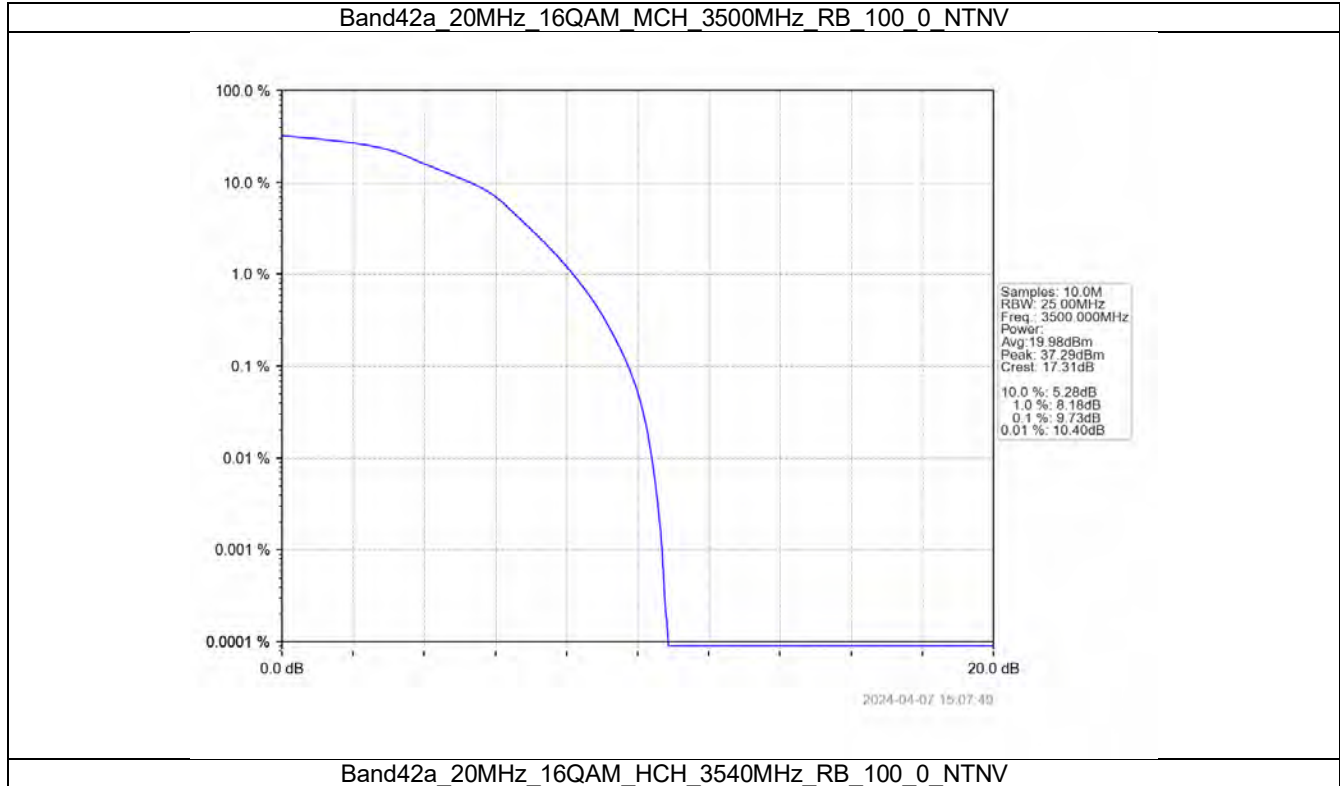
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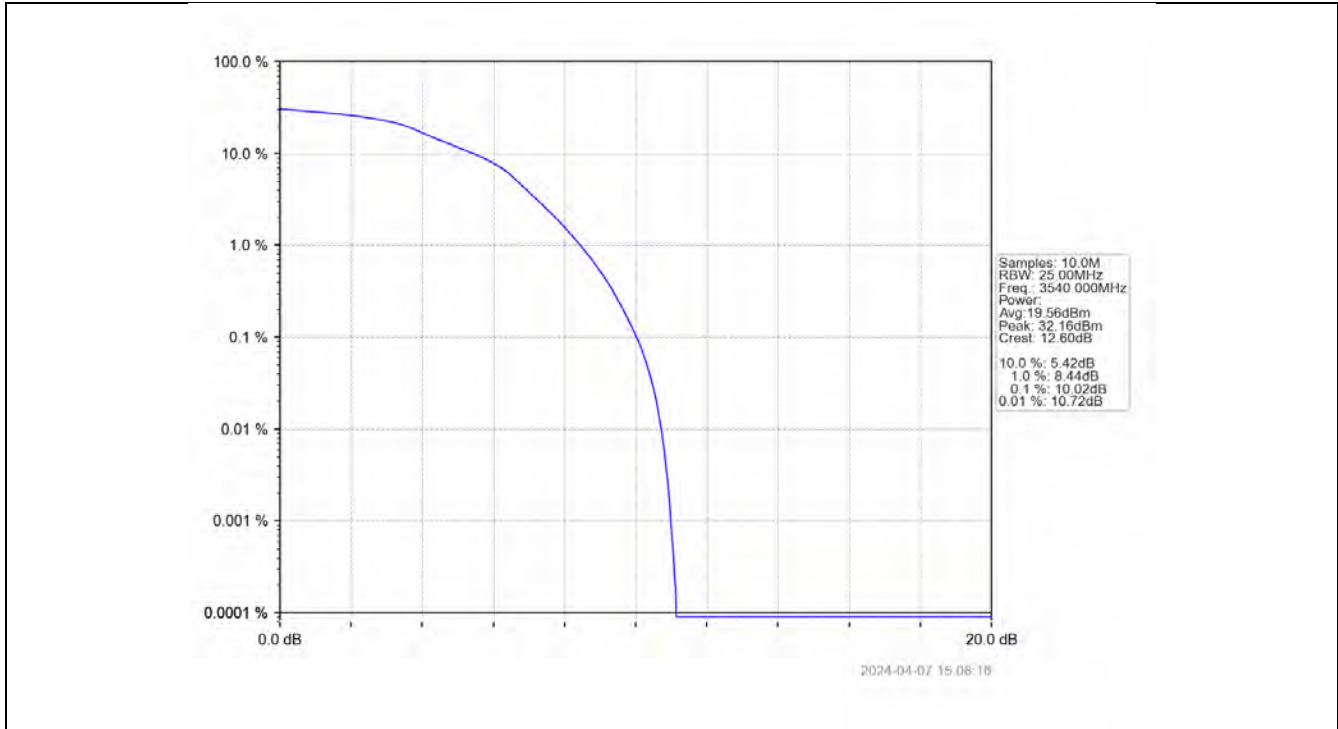
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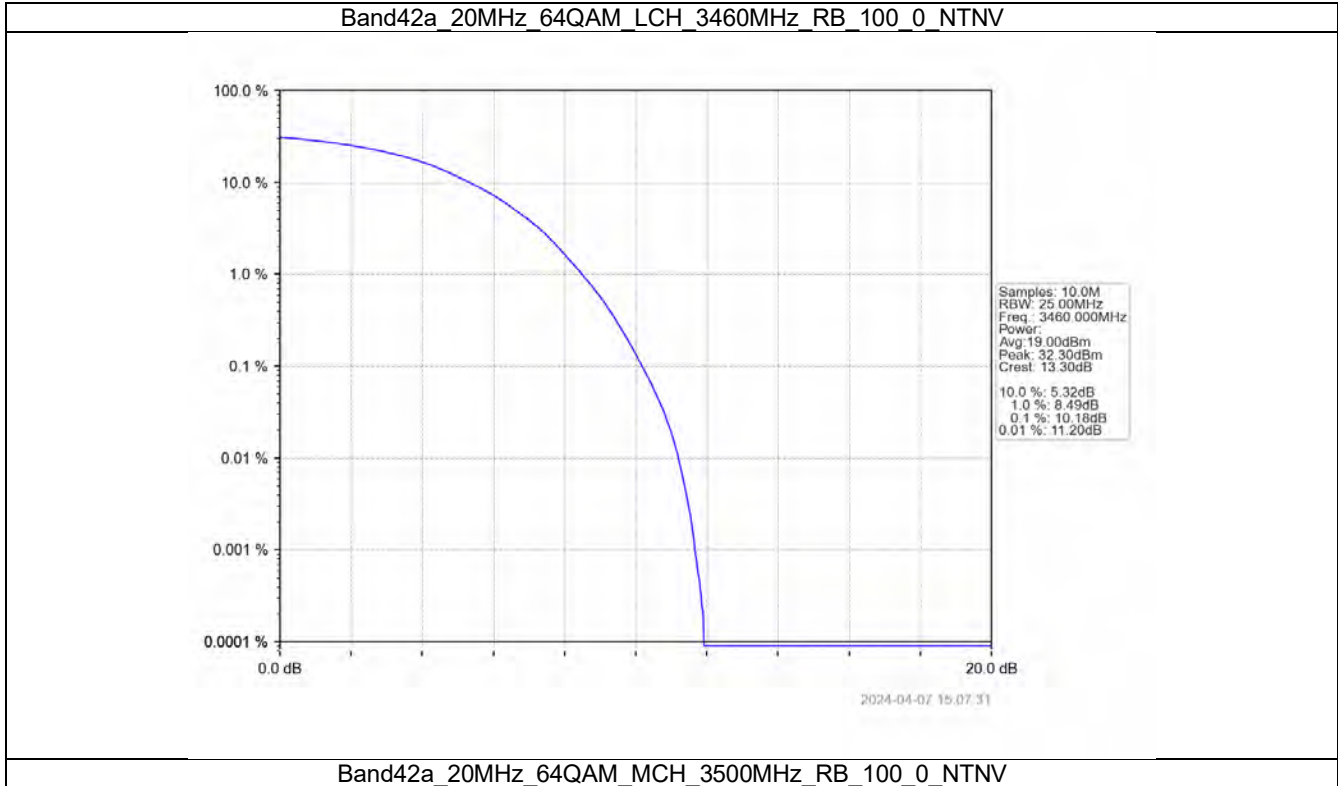


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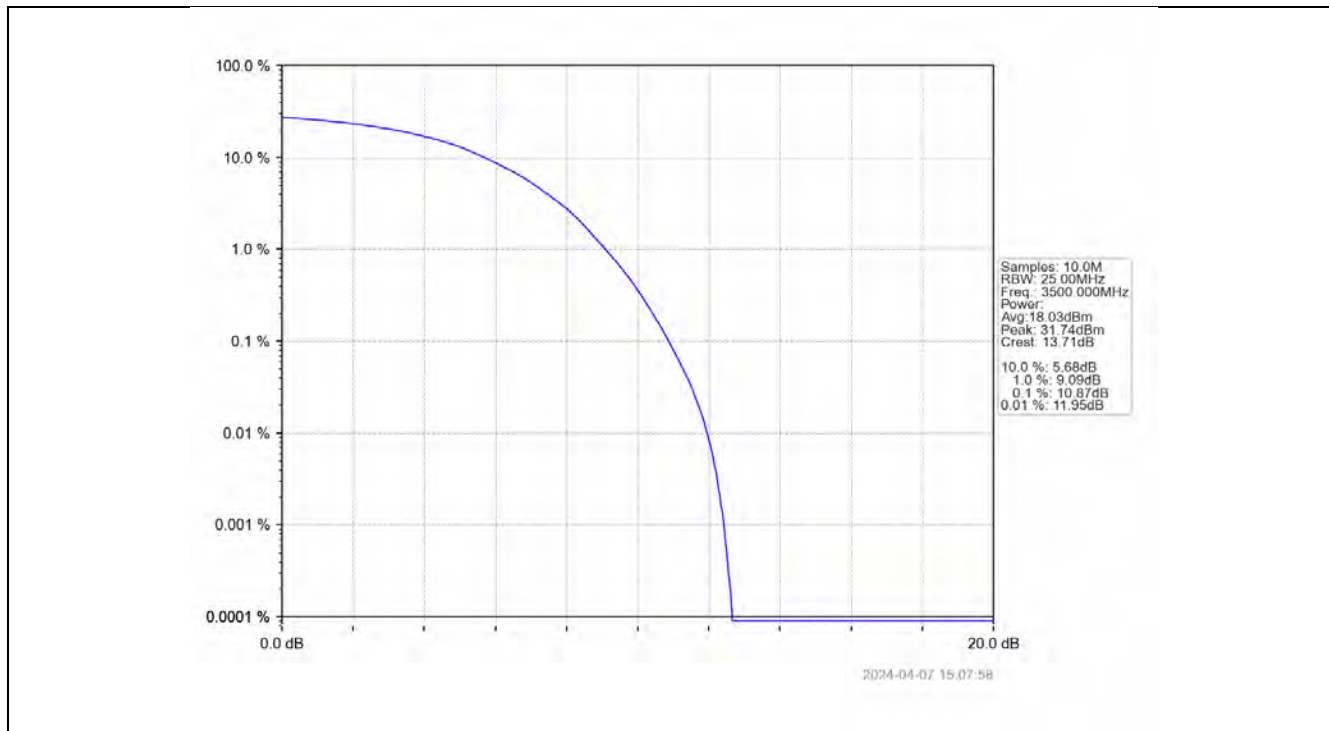
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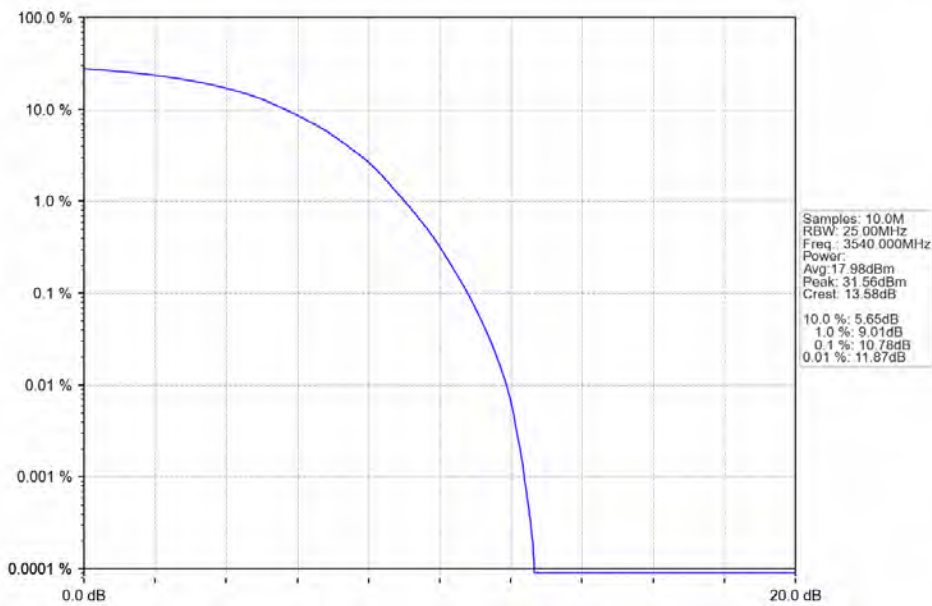
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Band42a\_20MHz\_64QAM\_HCH\_3540MHz\_RB\_100\_0\_NTNV



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## 5. Spurious Emission & Band Edges

### 5.1 B42a\_5MHz

#### 5.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3547.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	3452.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3547.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	3452.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3547.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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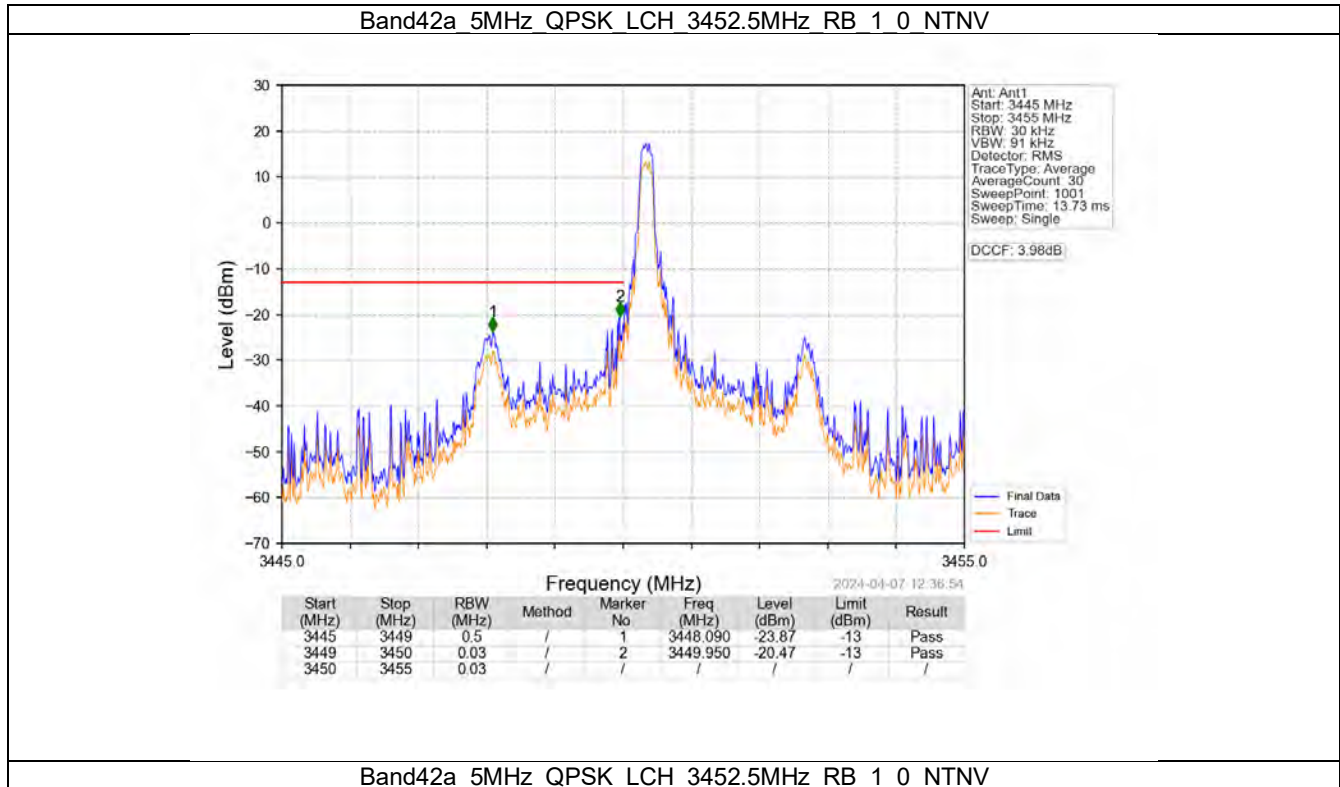
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5.1.2 Test Graph



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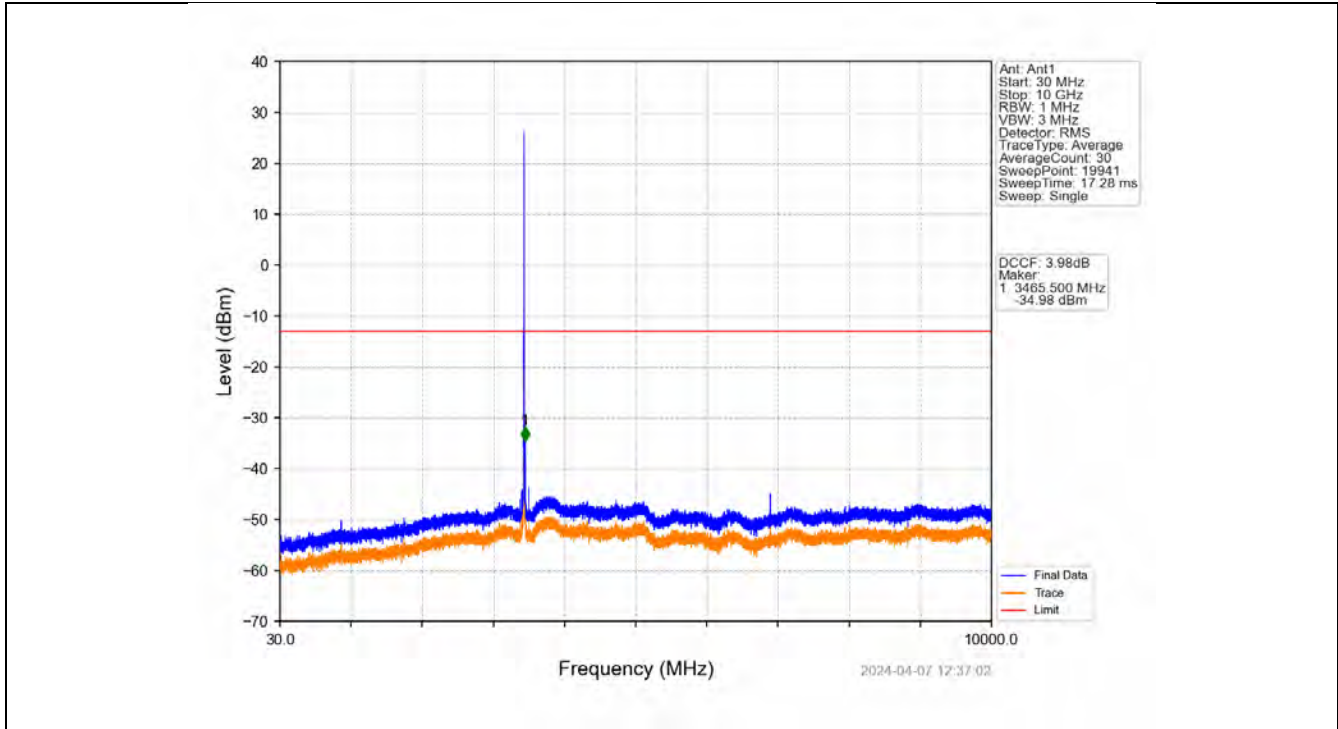


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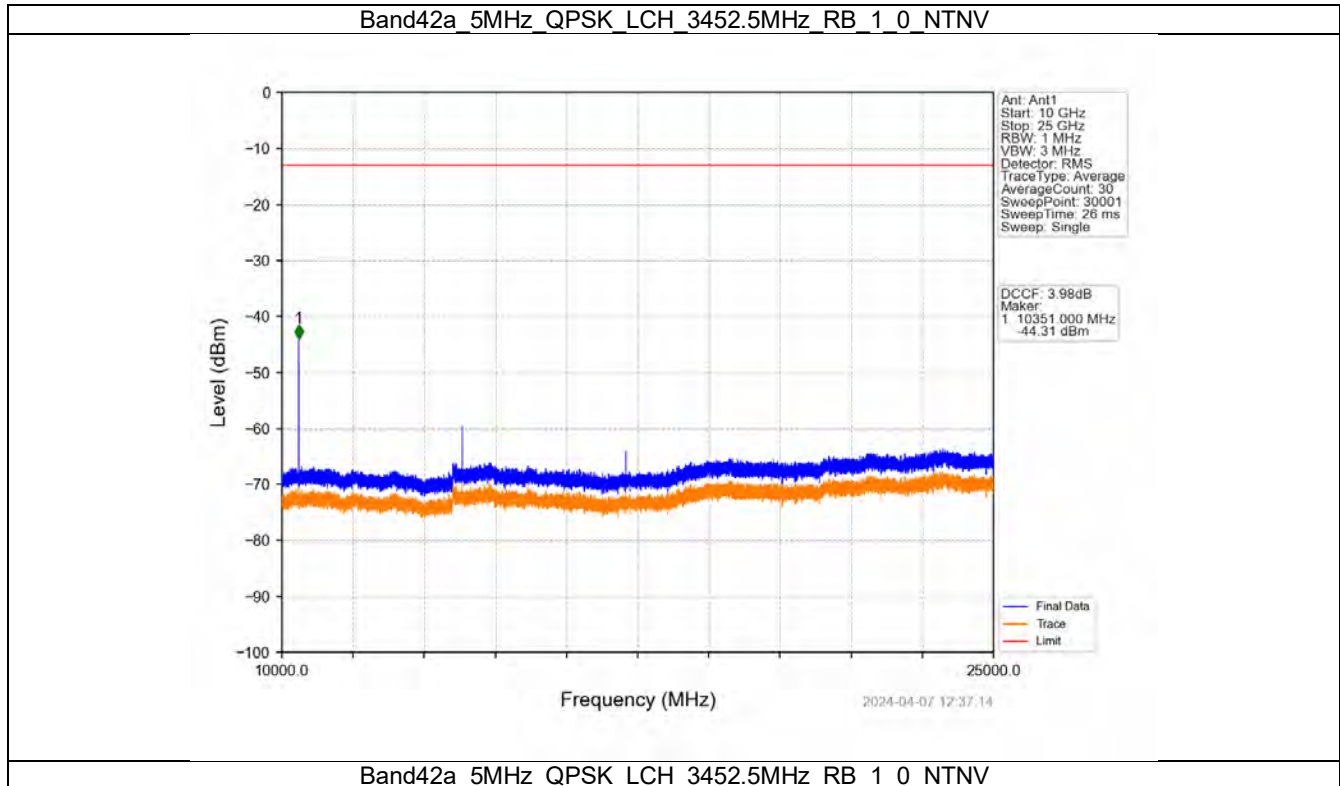


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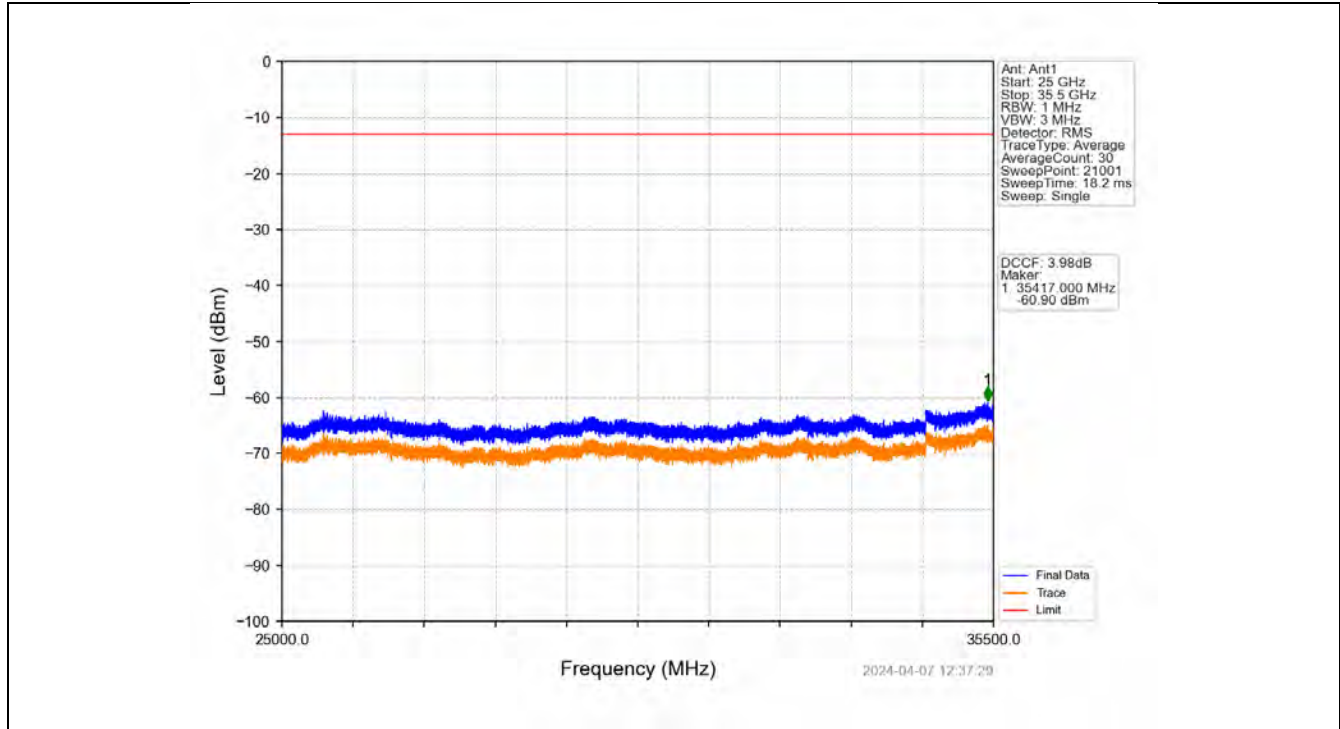


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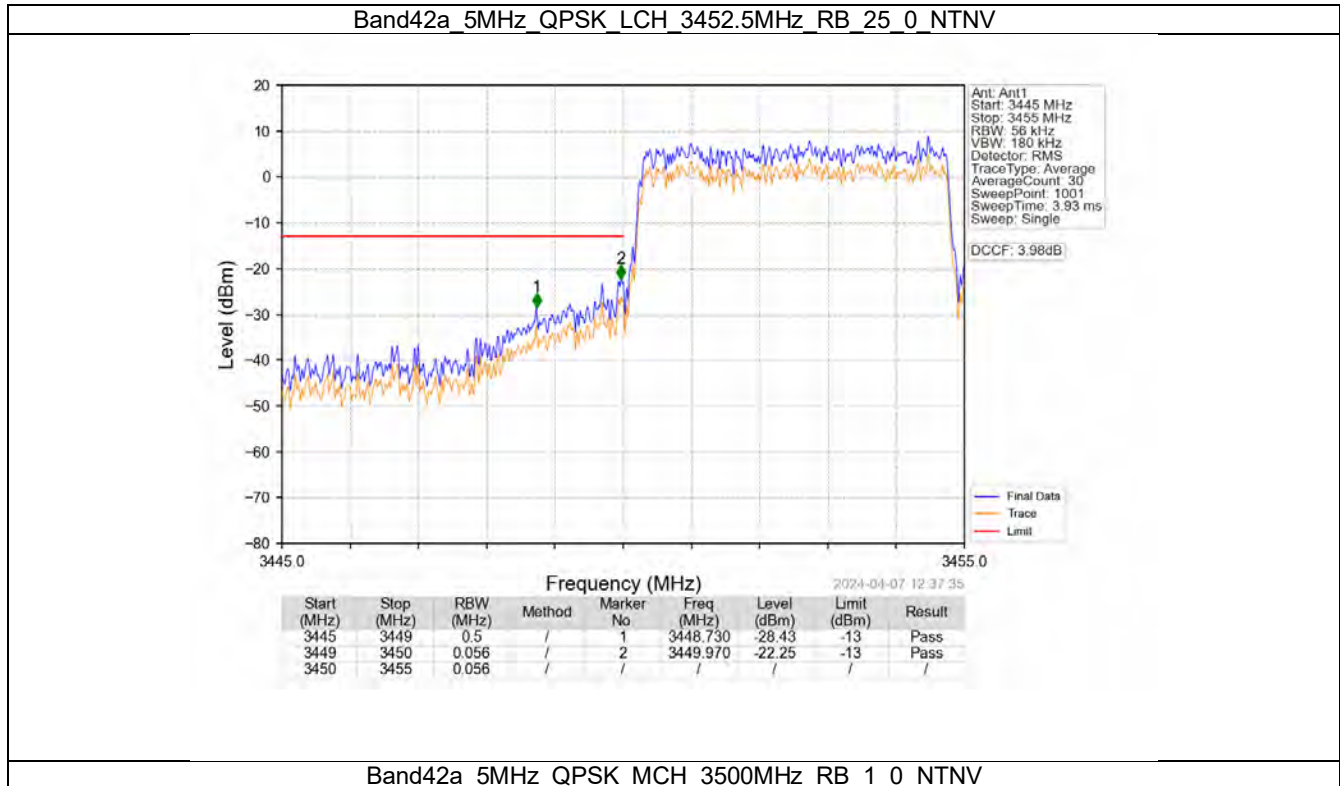


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Band42a 5MHz QPSK MCH 3500MHz RB 1\_0 NTN



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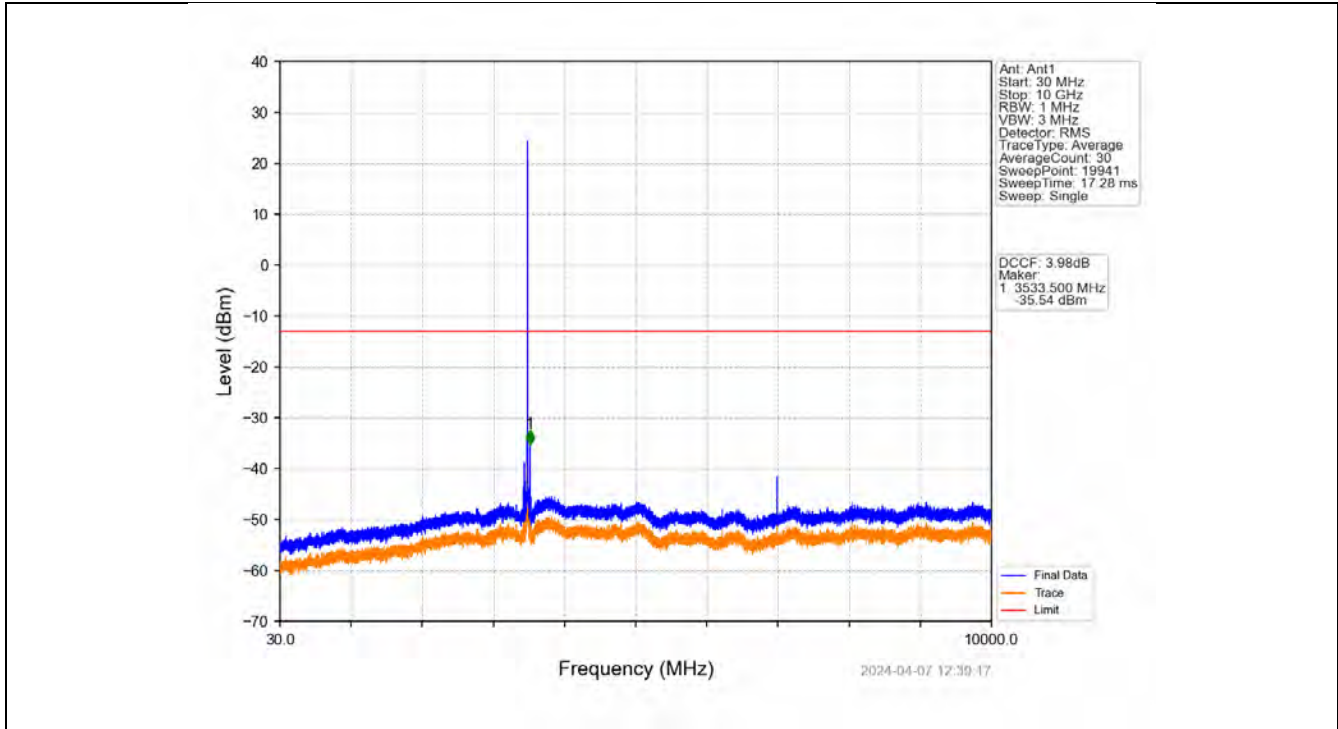


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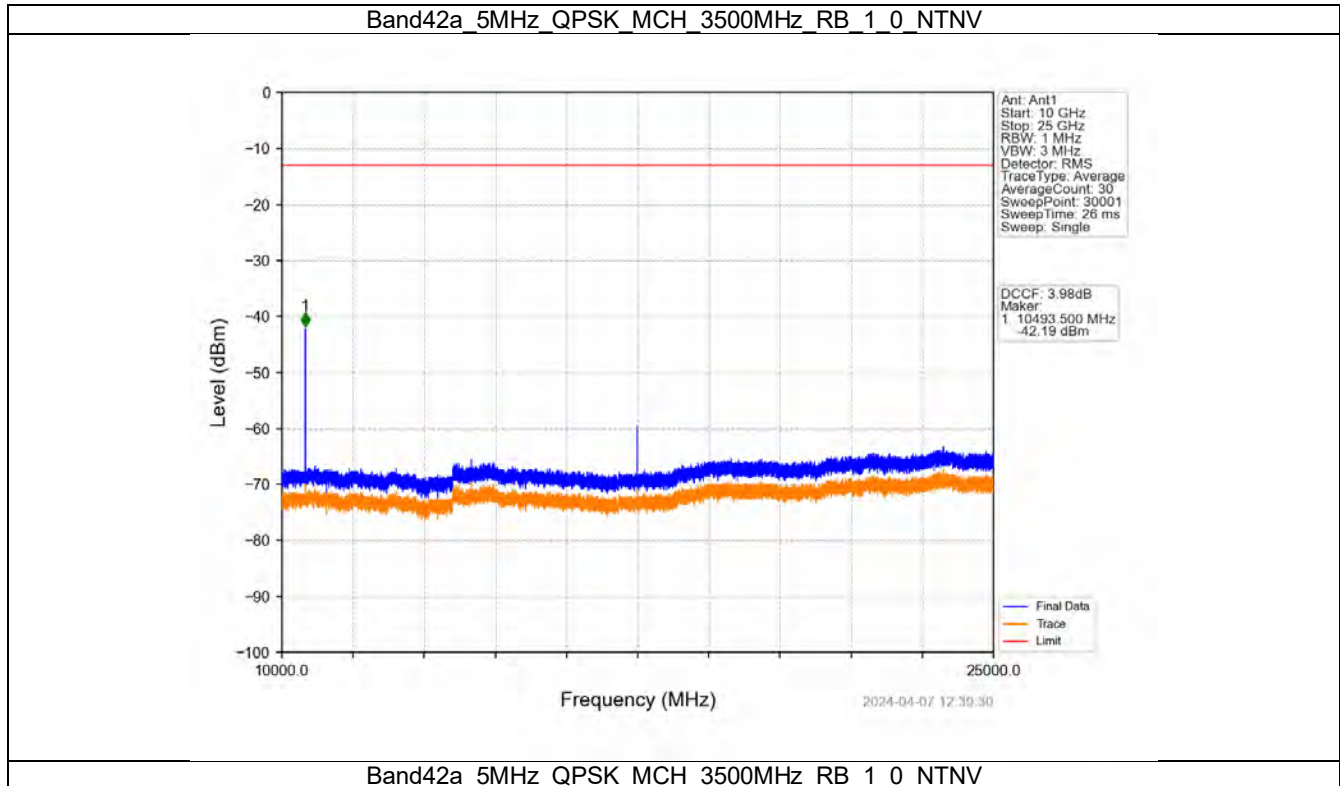


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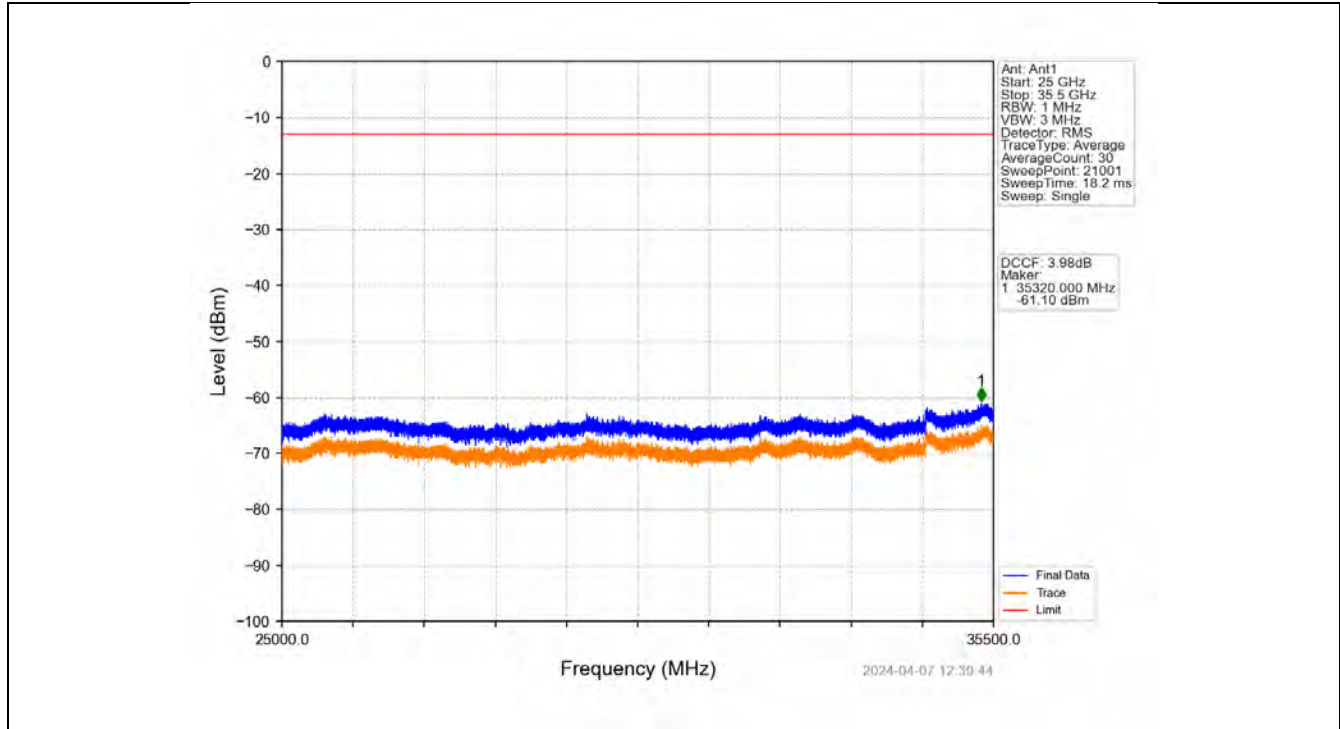


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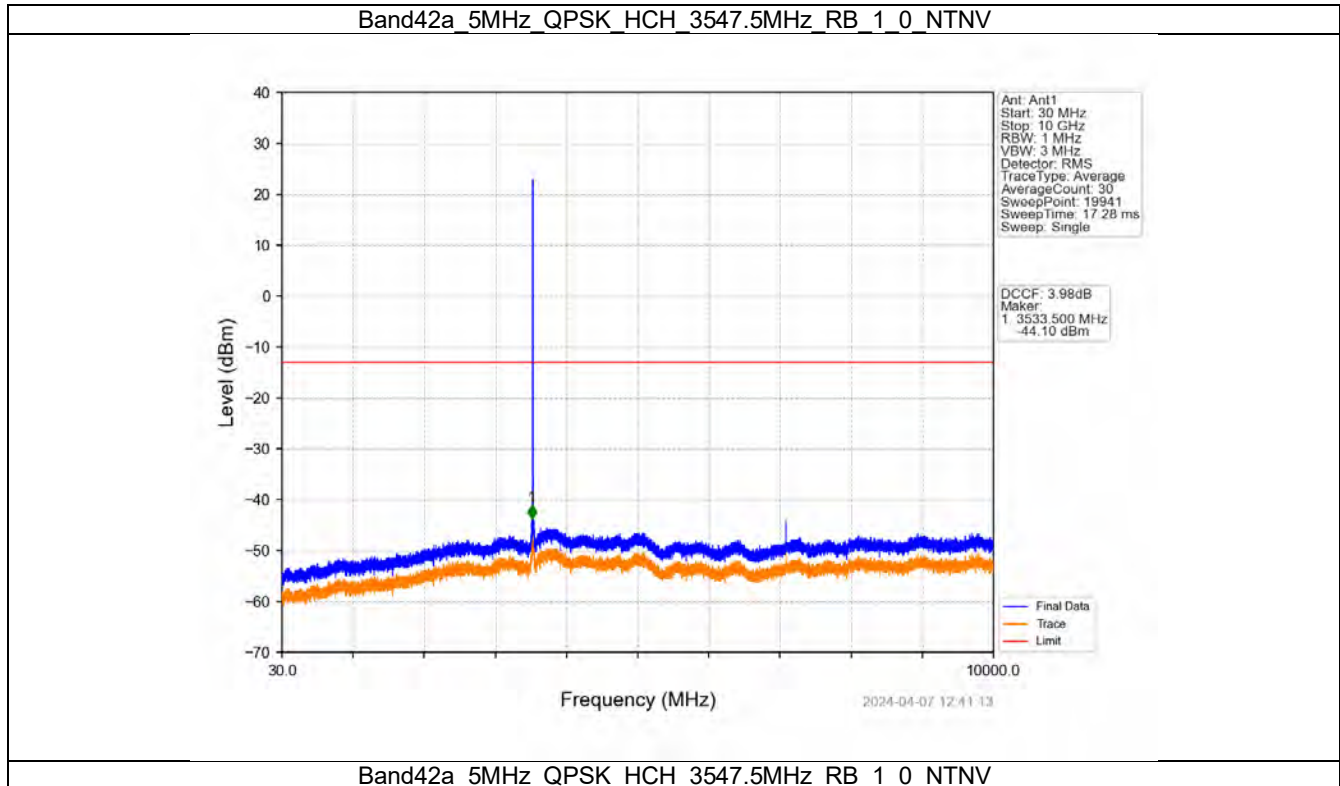


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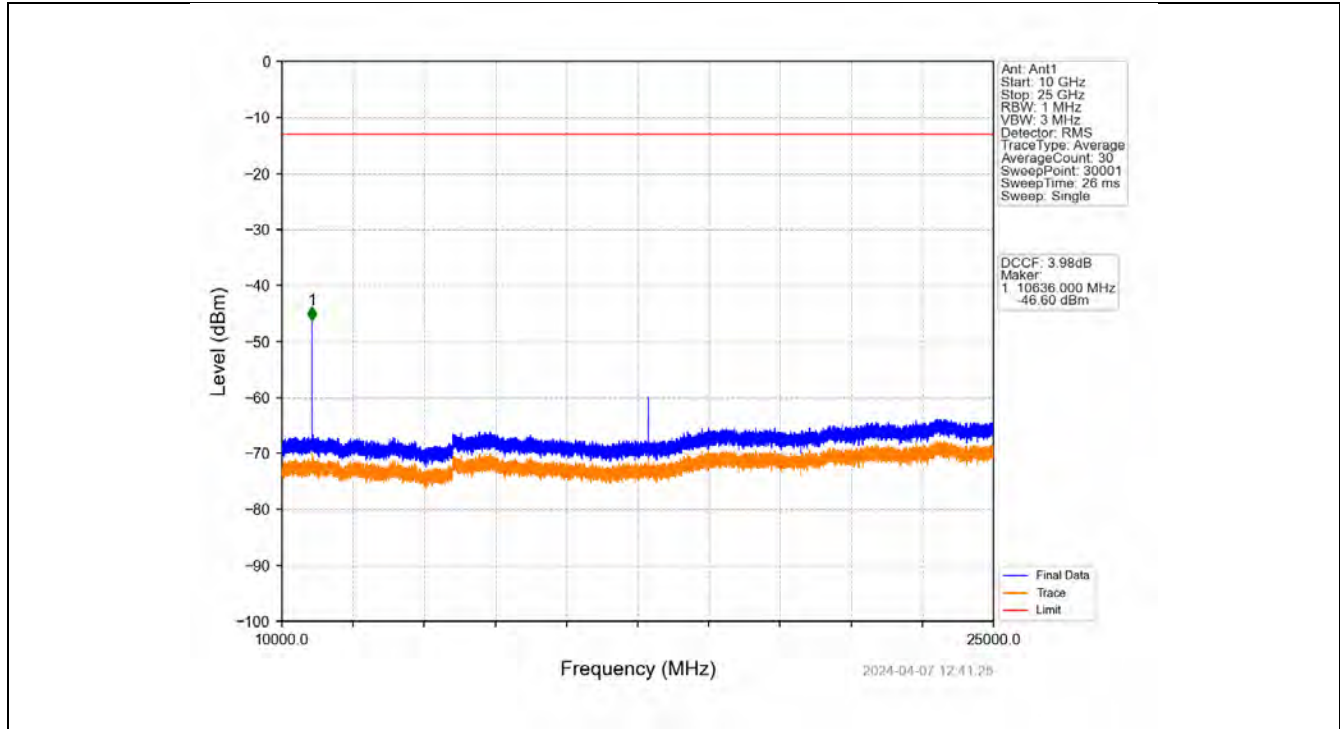


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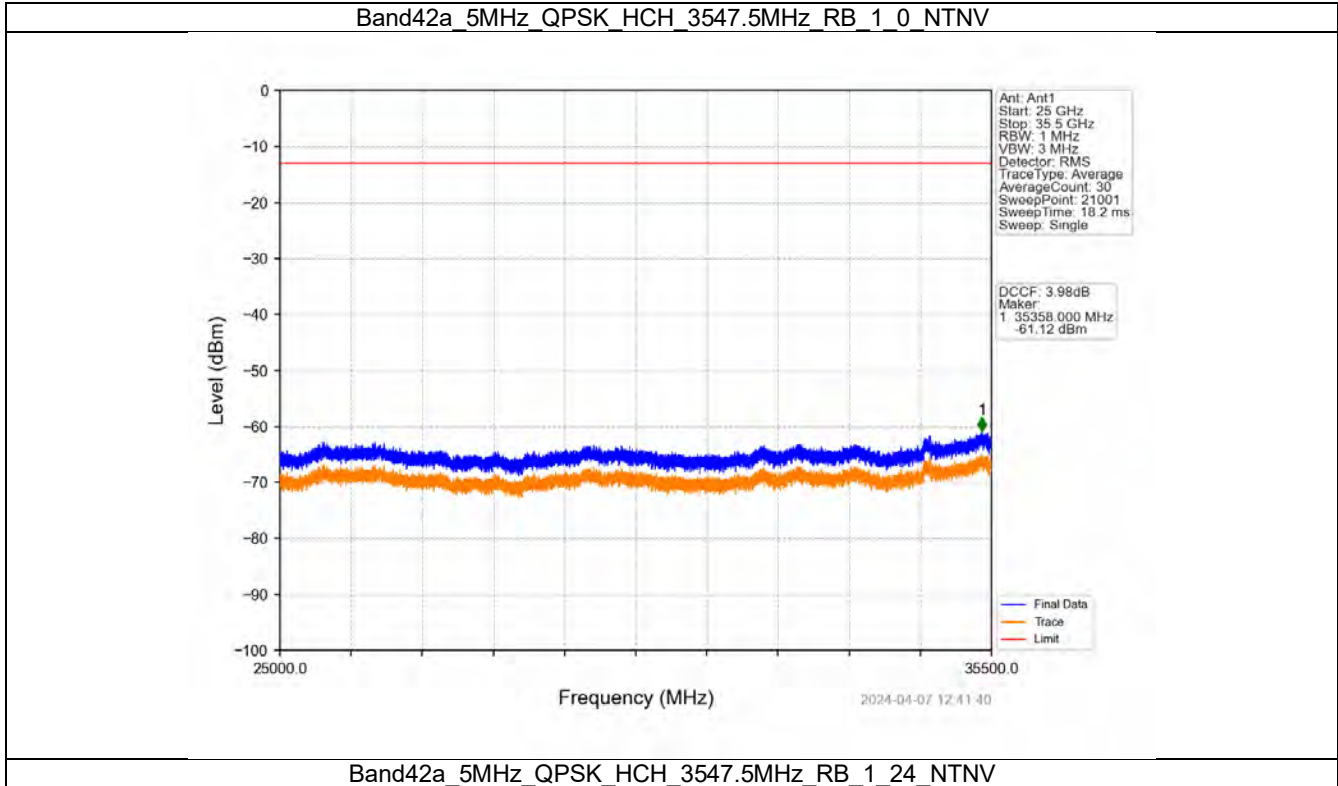


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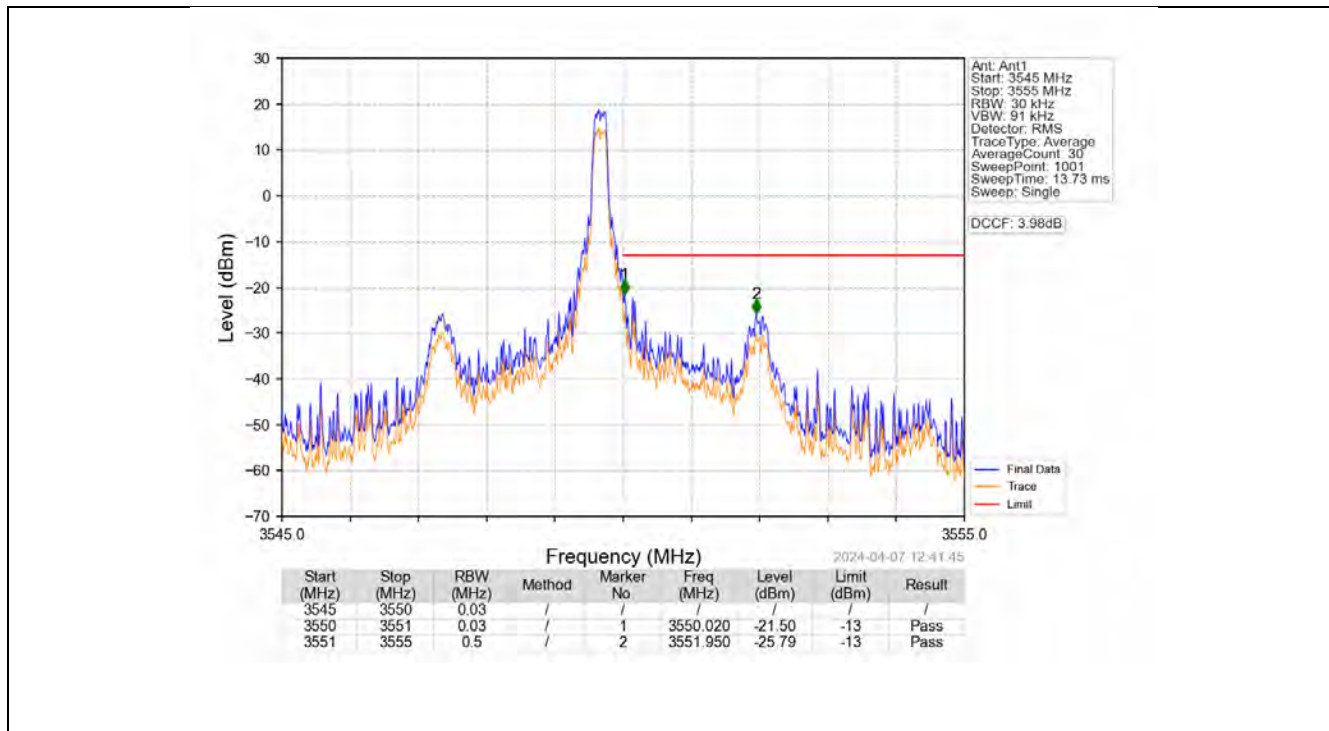
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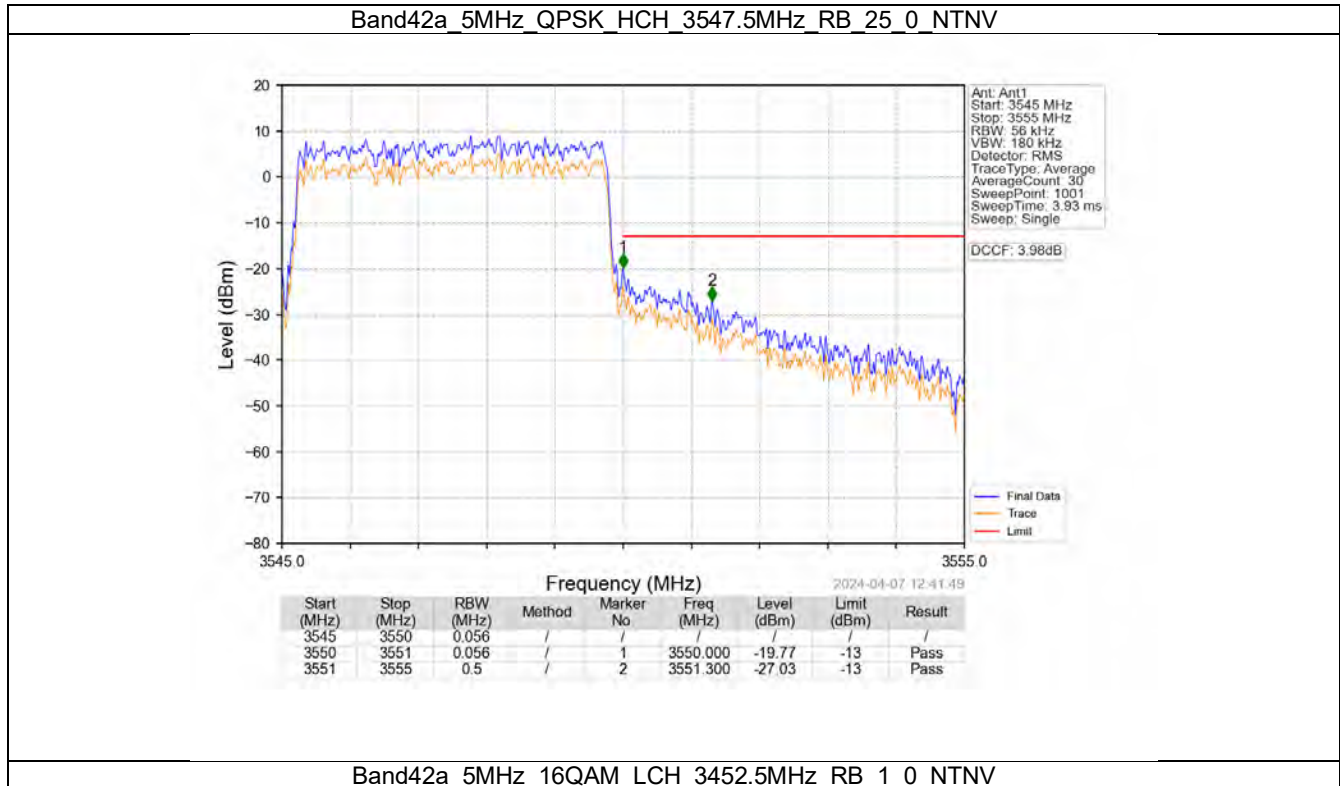


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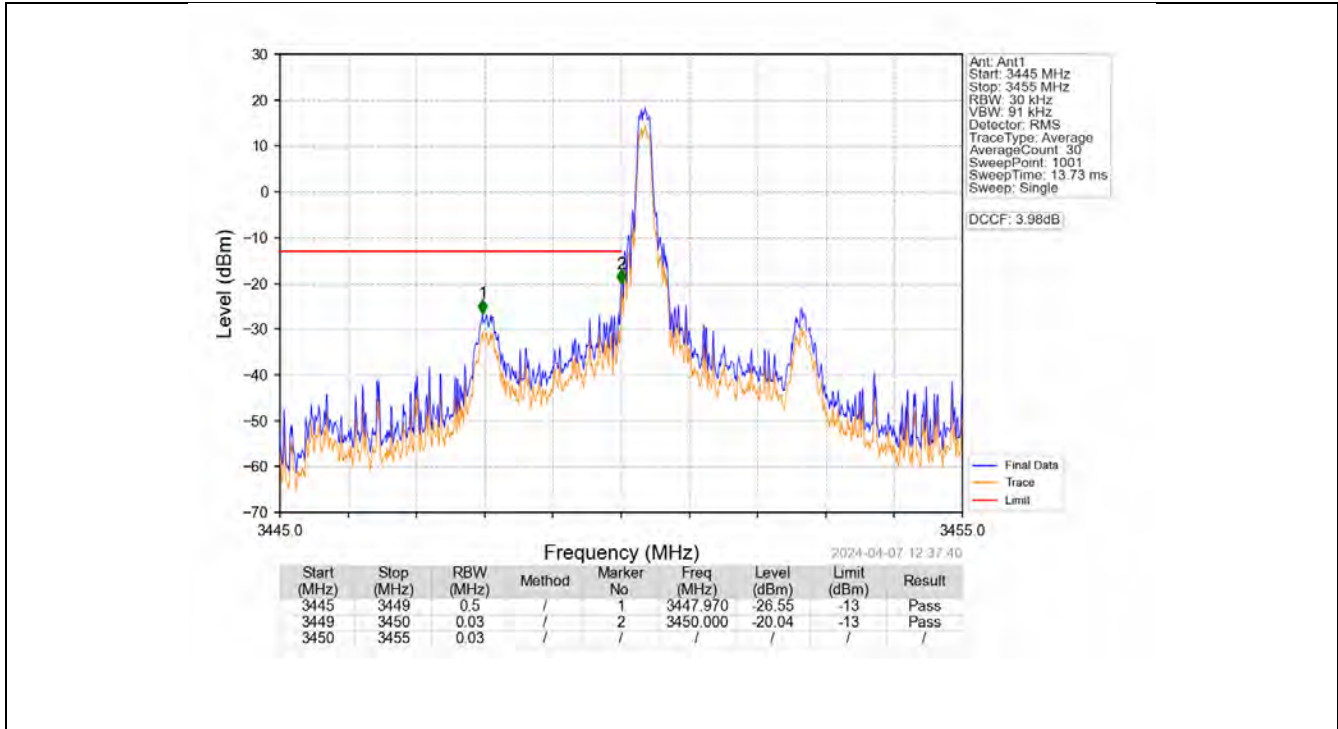


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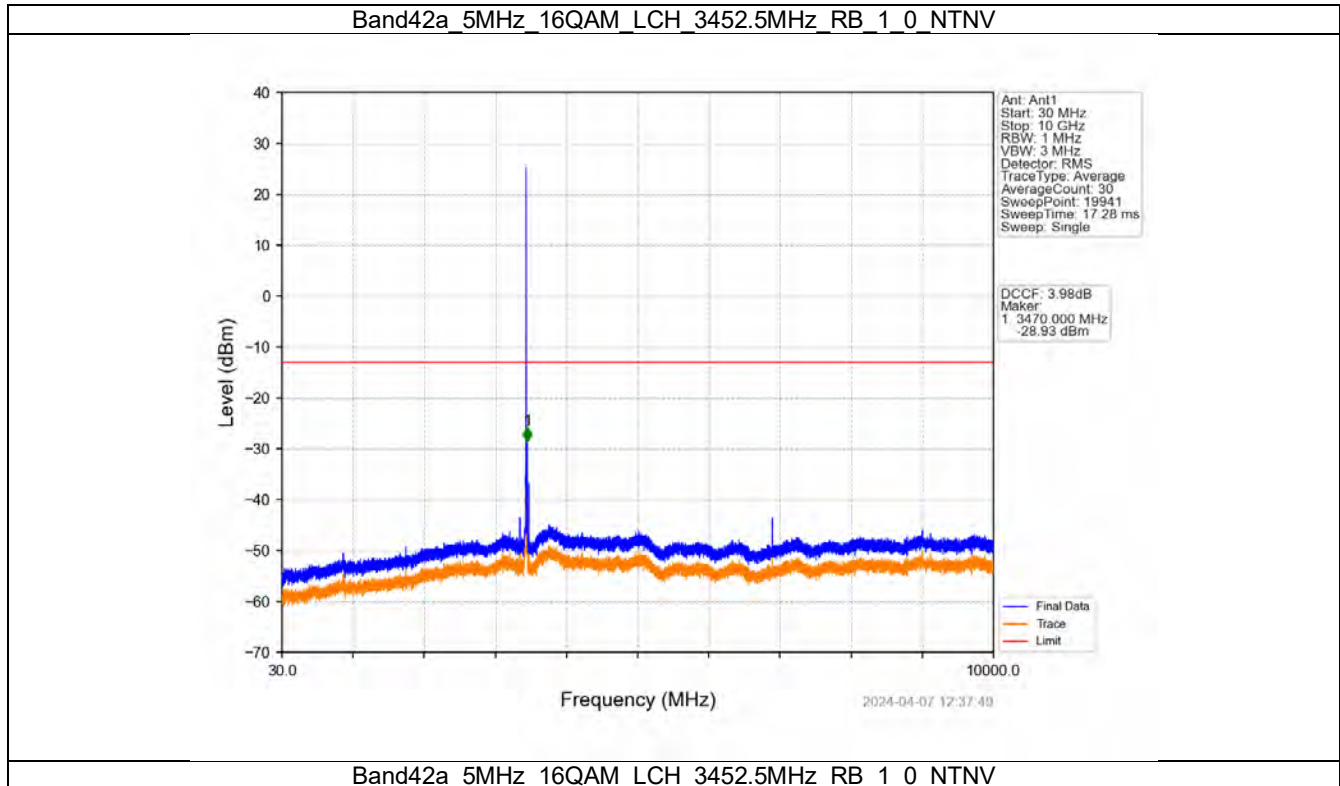


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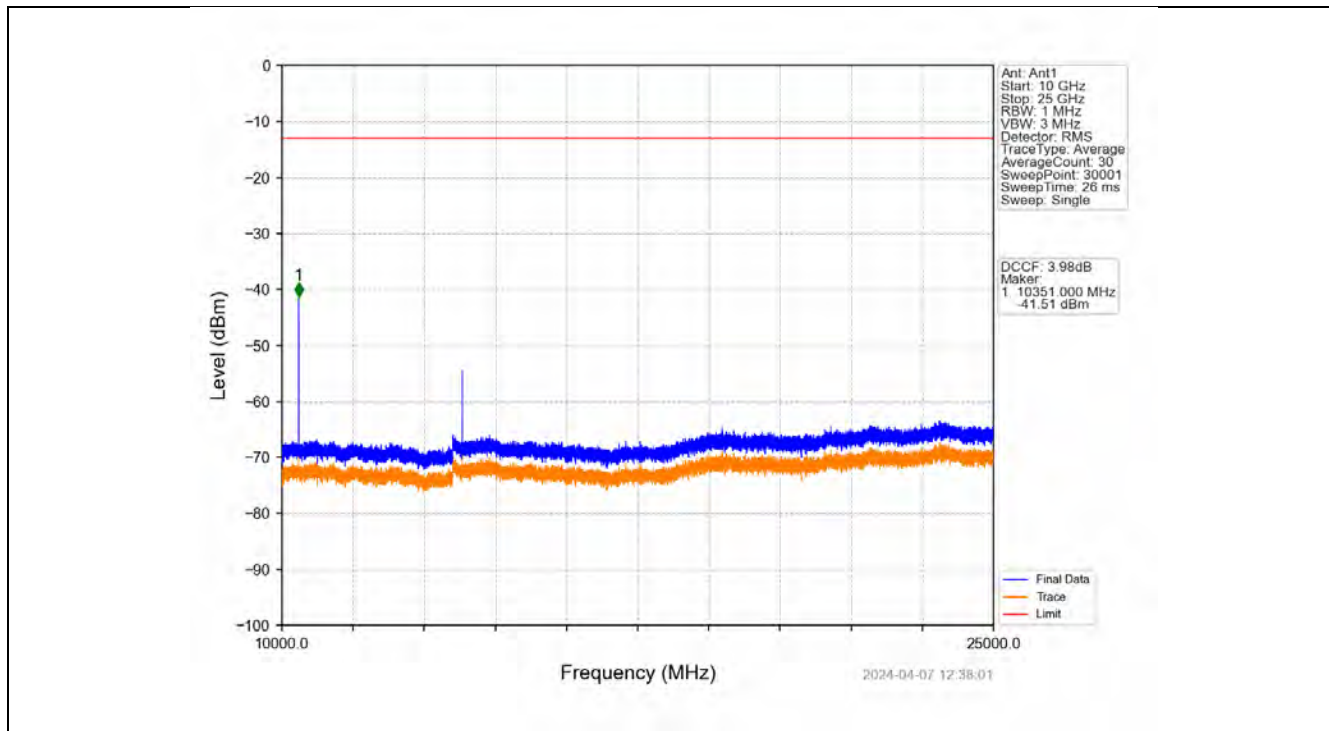
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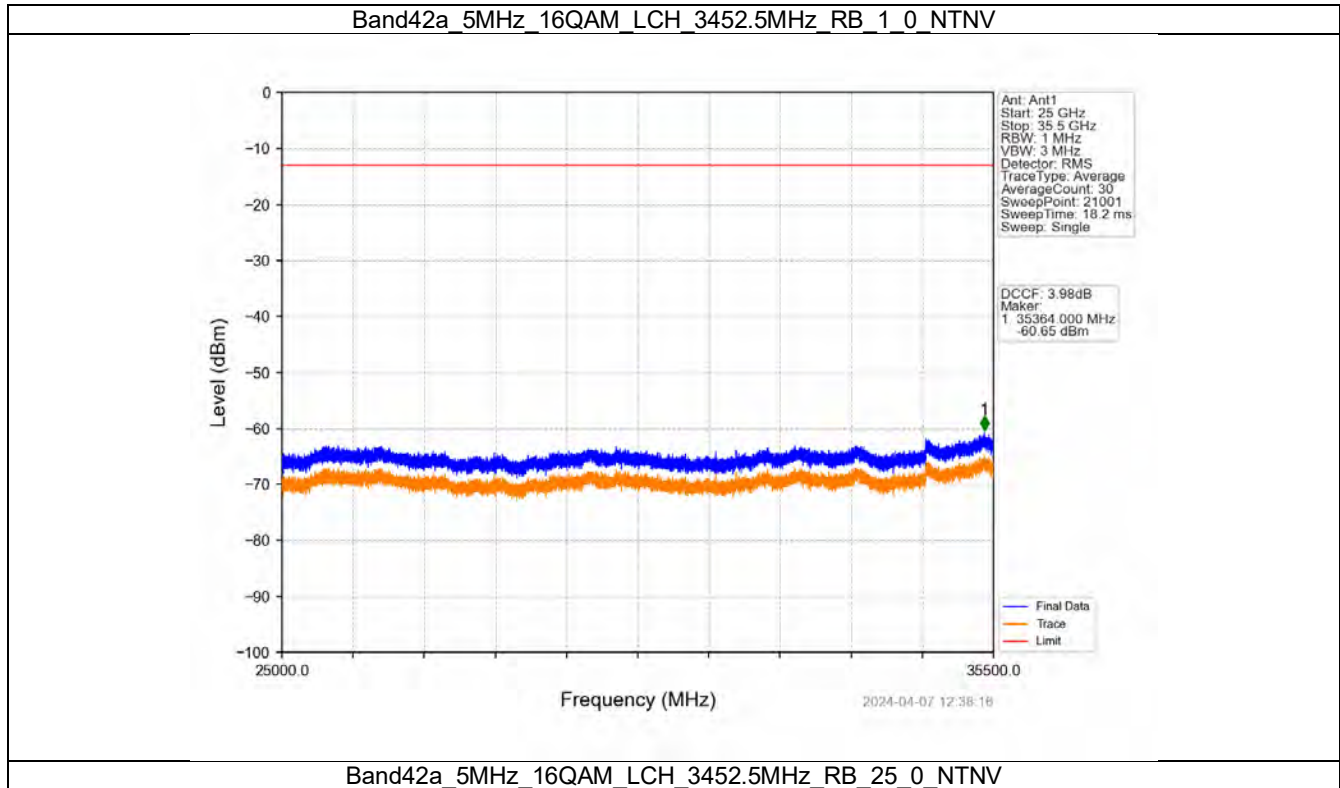


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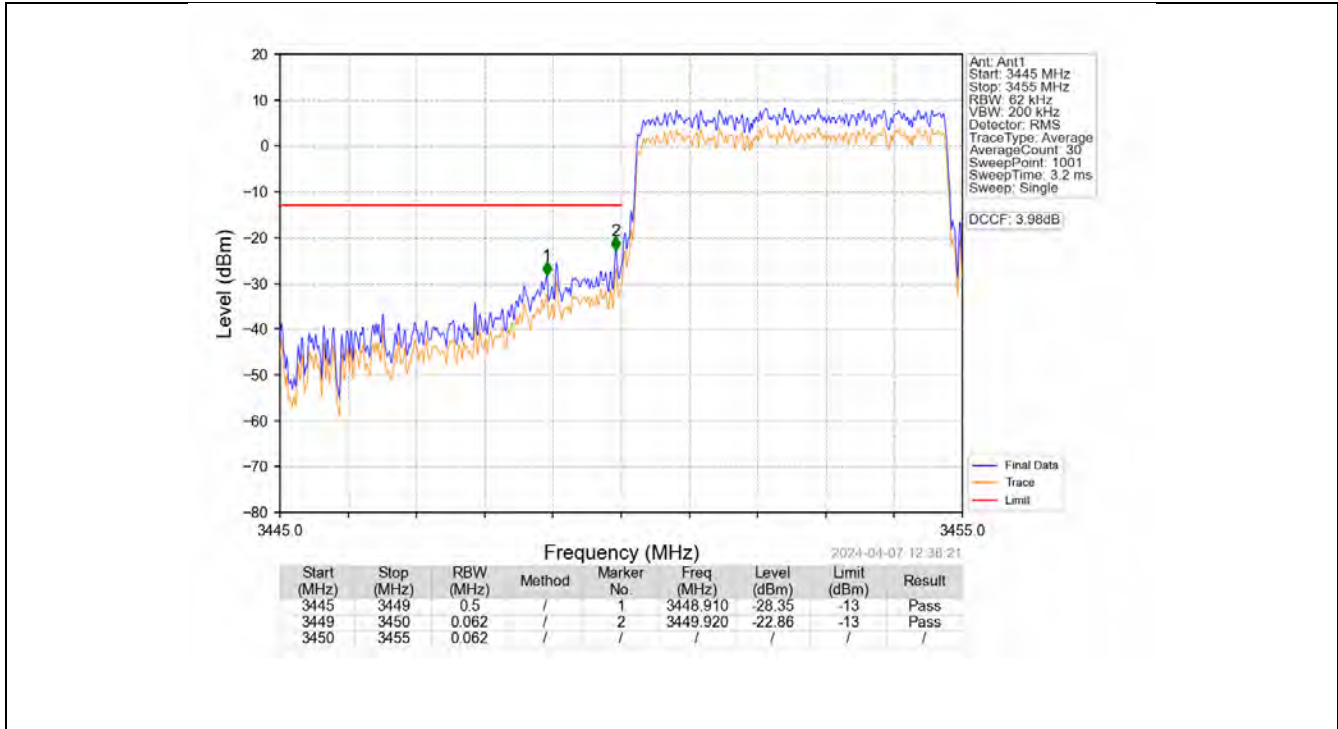


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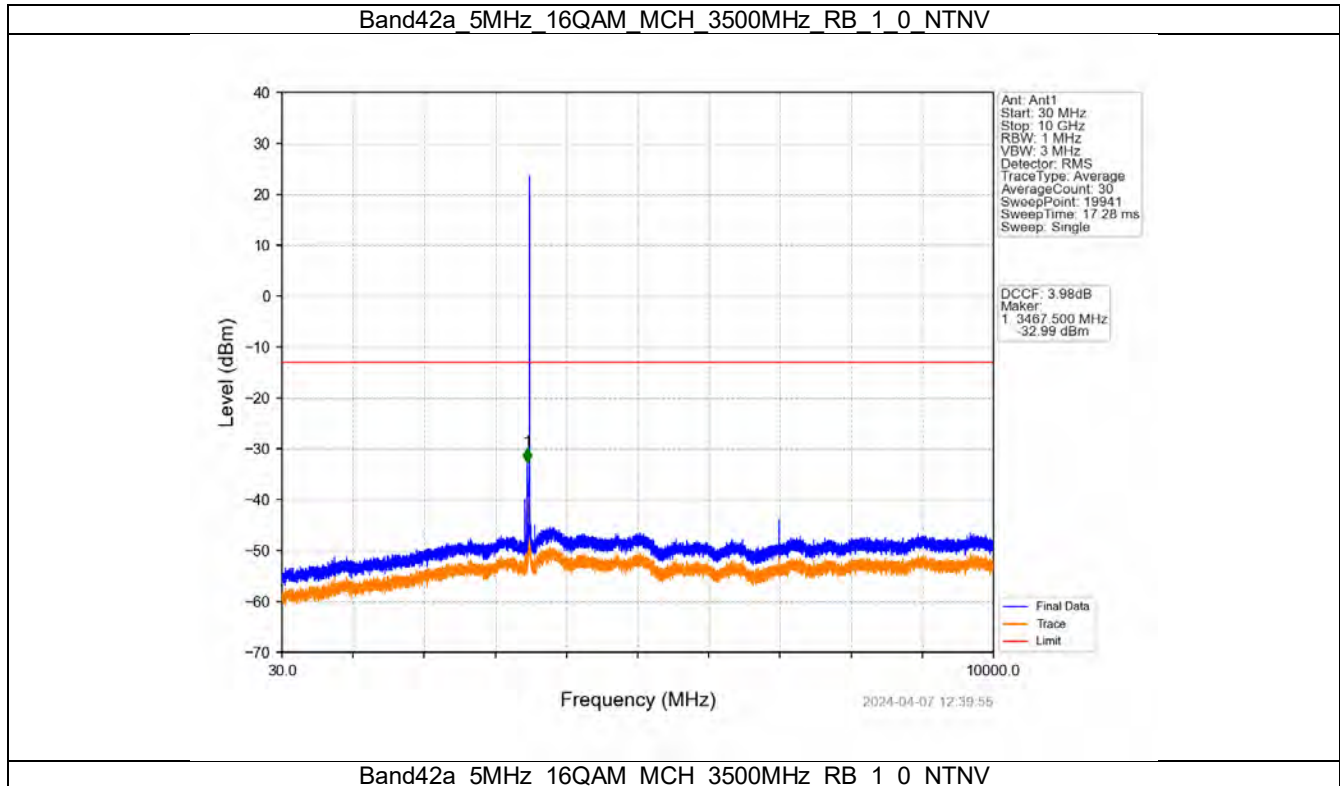


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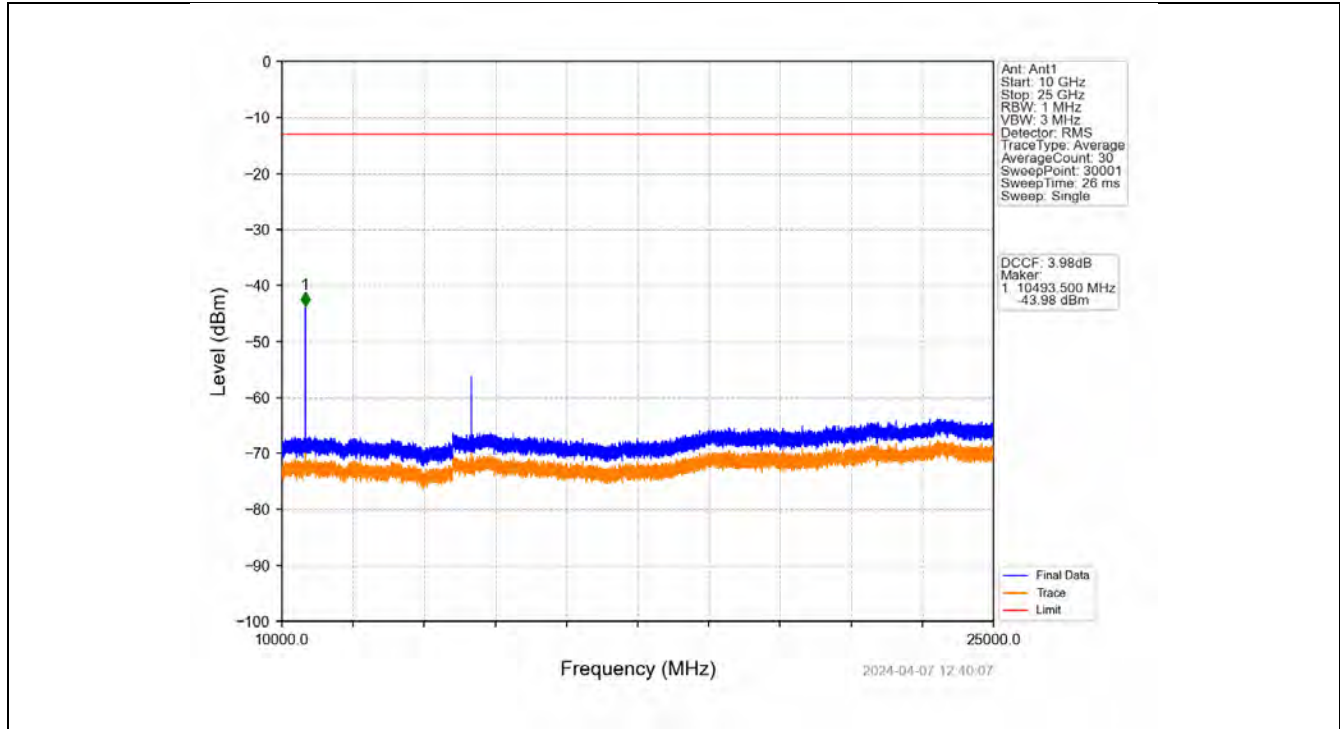


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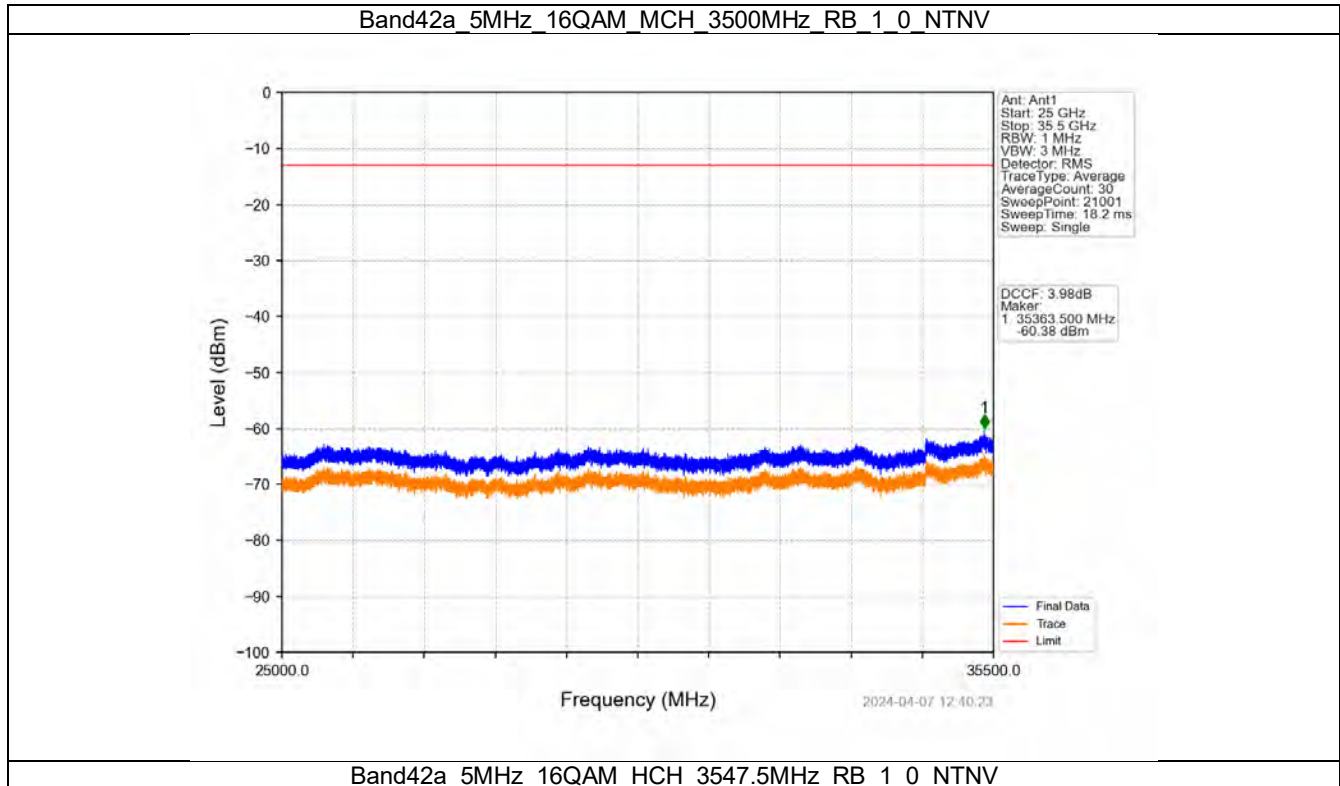


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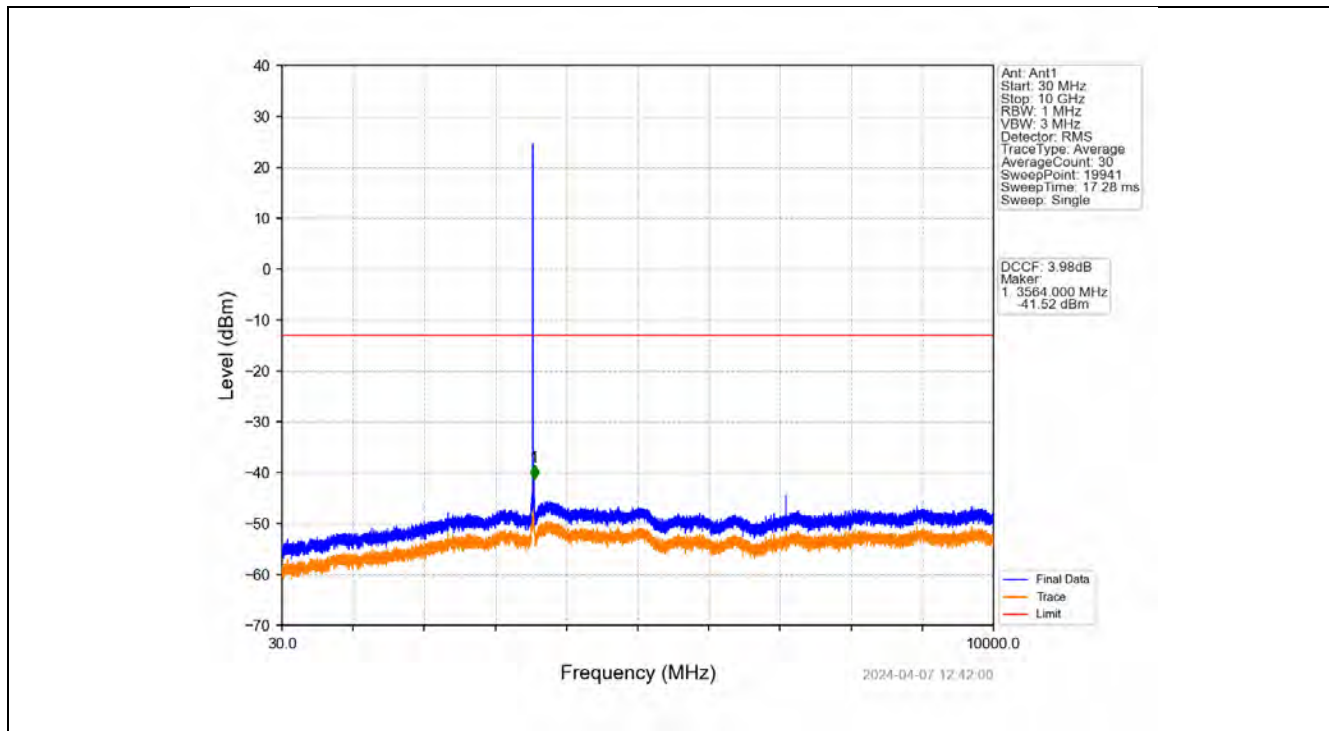
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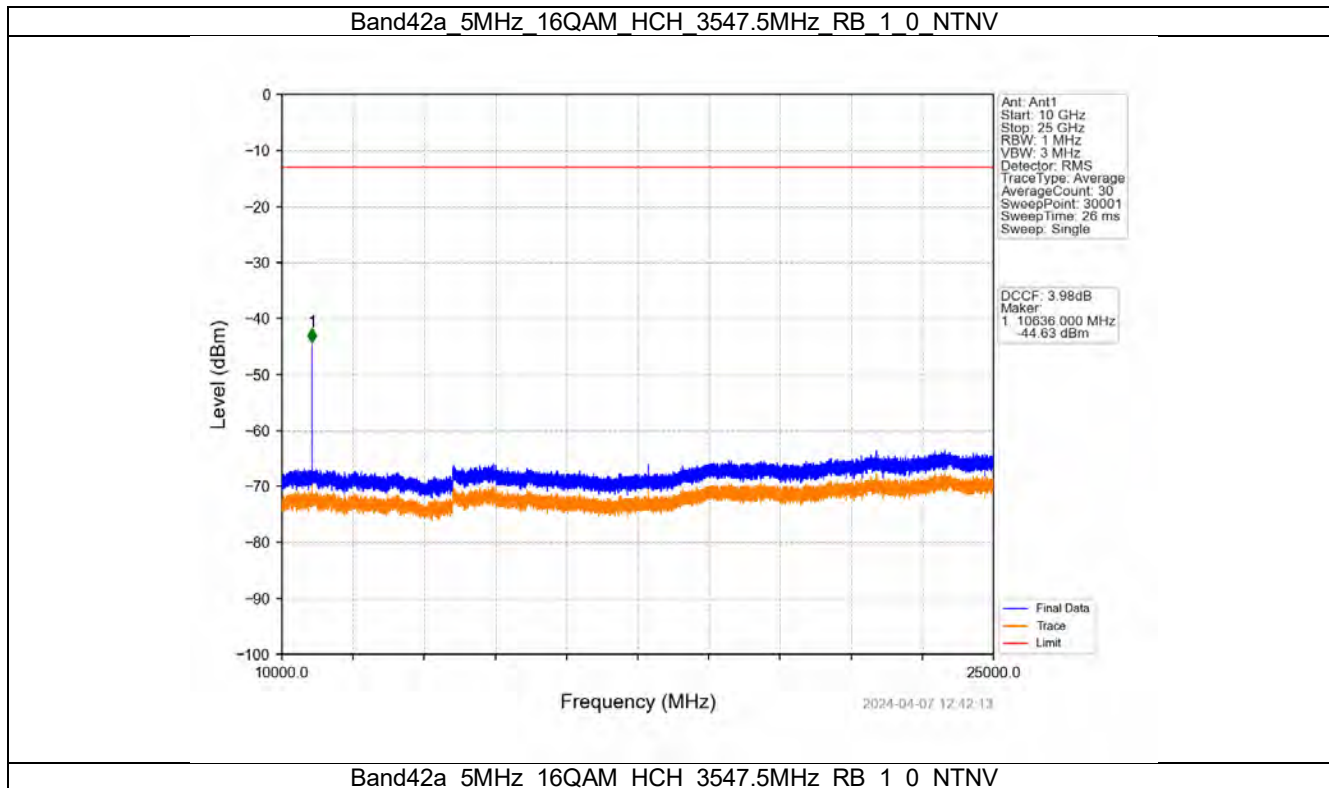
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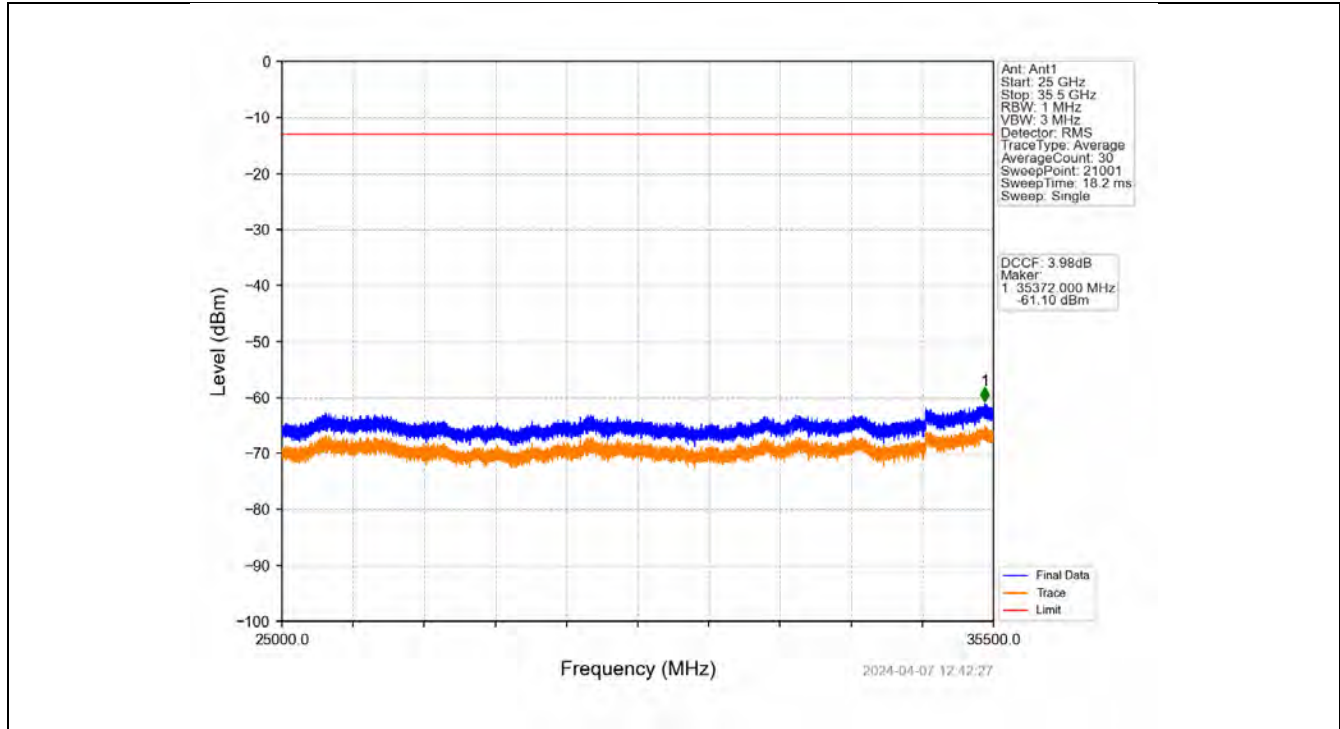


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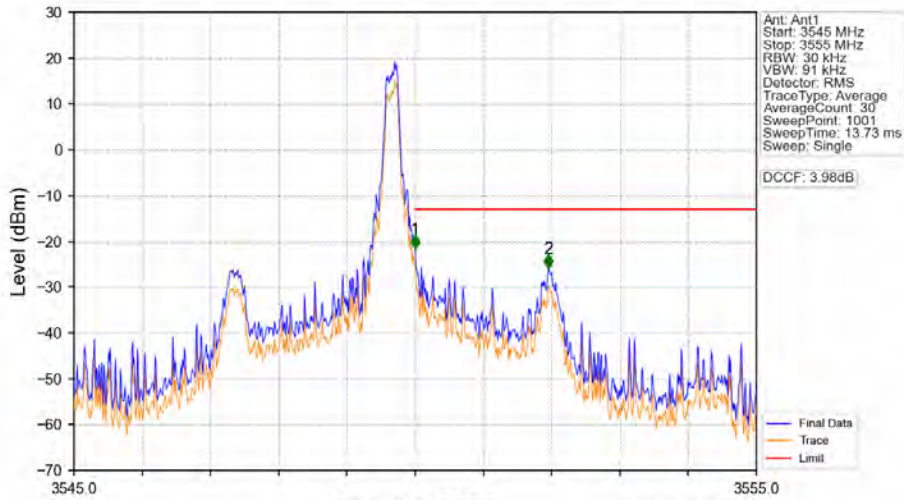
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Band42a\_5MHz\_16QAM\_HCH\_3547.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.03	/	/	/	/	/	/
3550	3551	0.03	/	1	3550.000	-21.73	-13	Pass
3551	3555	0.5	/	2	3551.950	-25.93	-13	Pass

Band42a\_5MHz\_16QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



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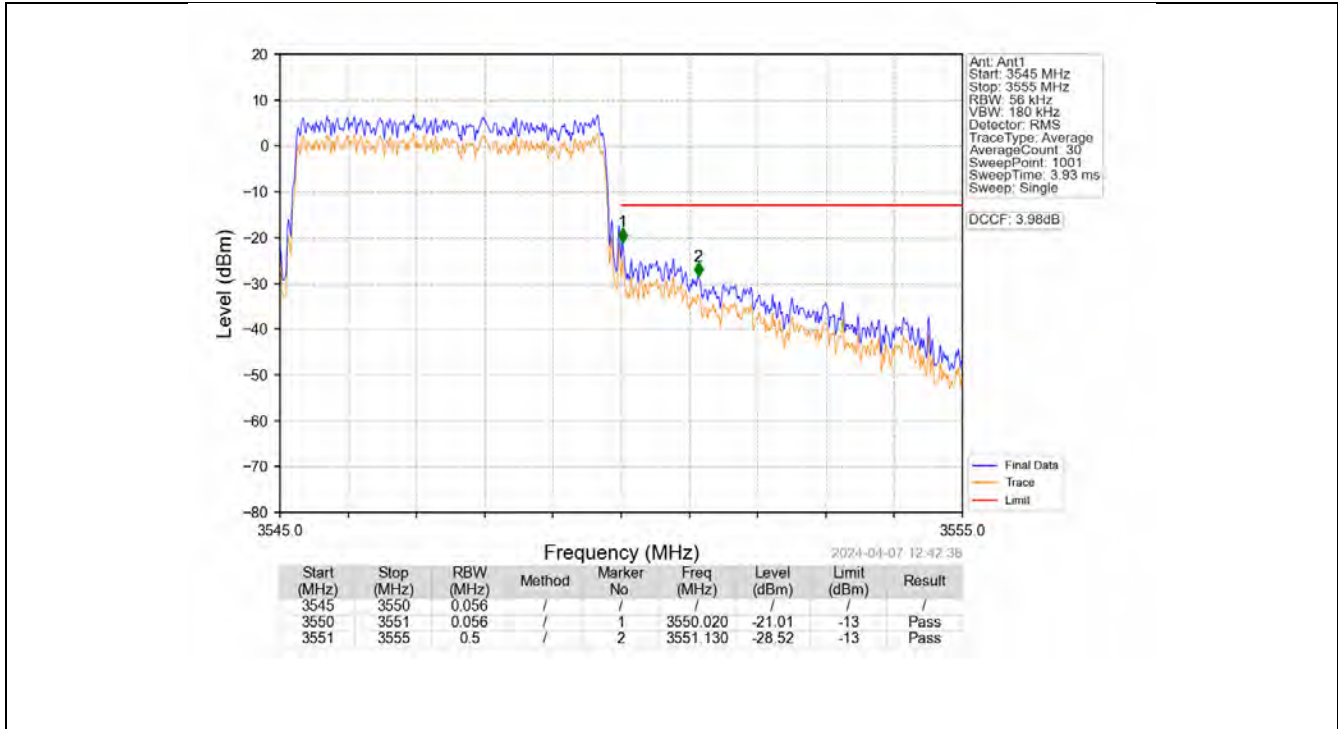


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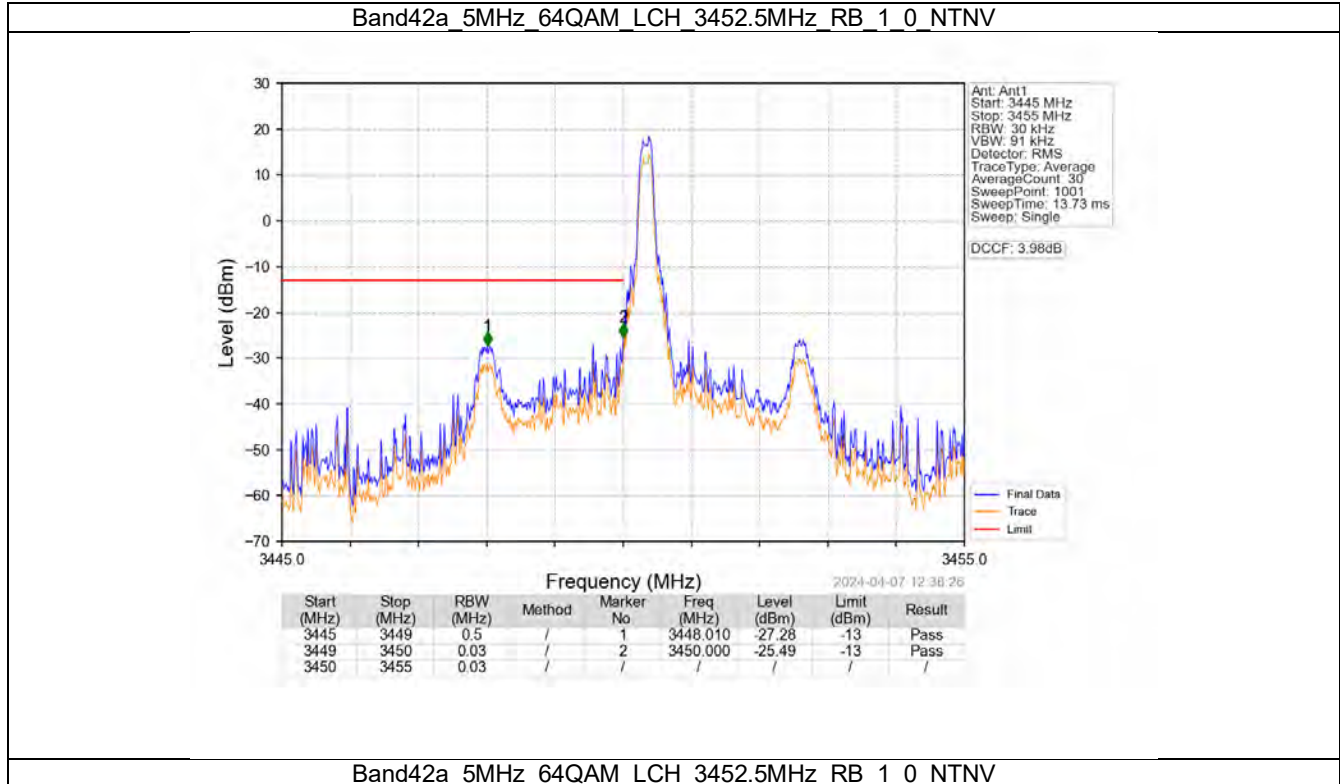


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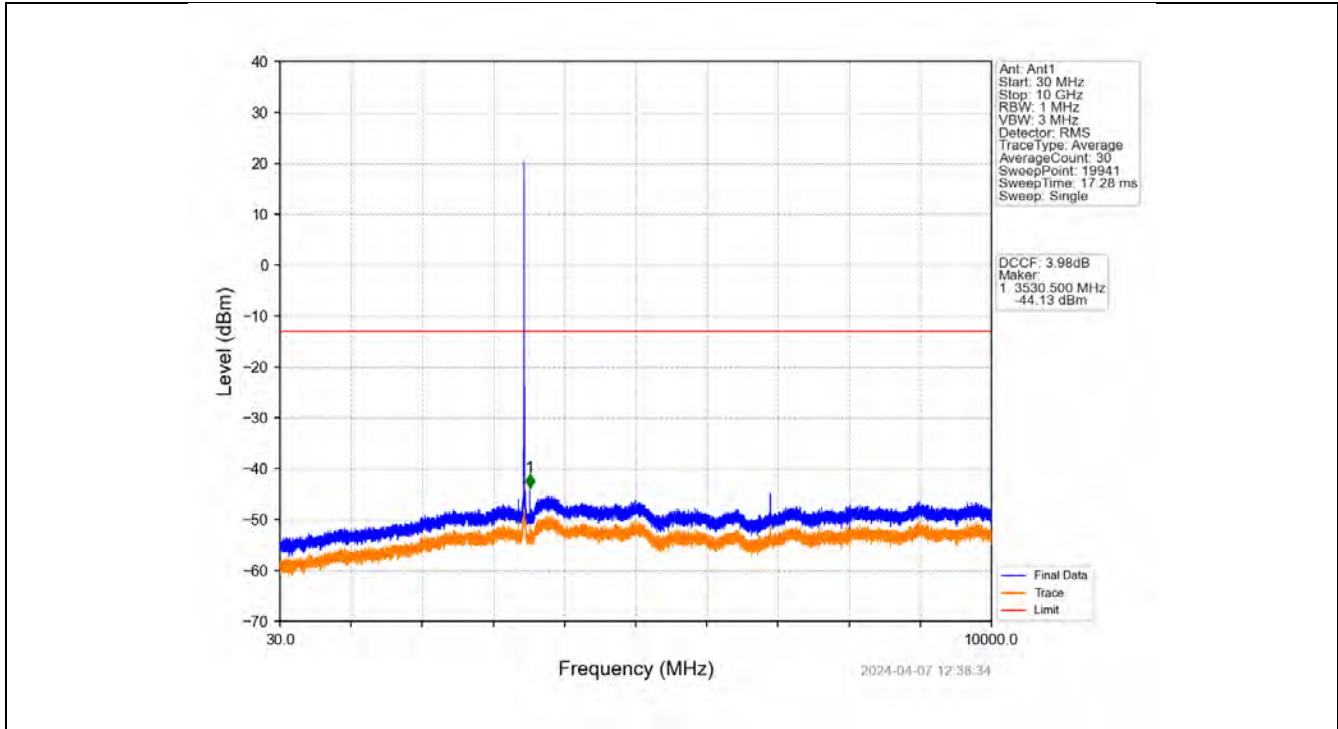
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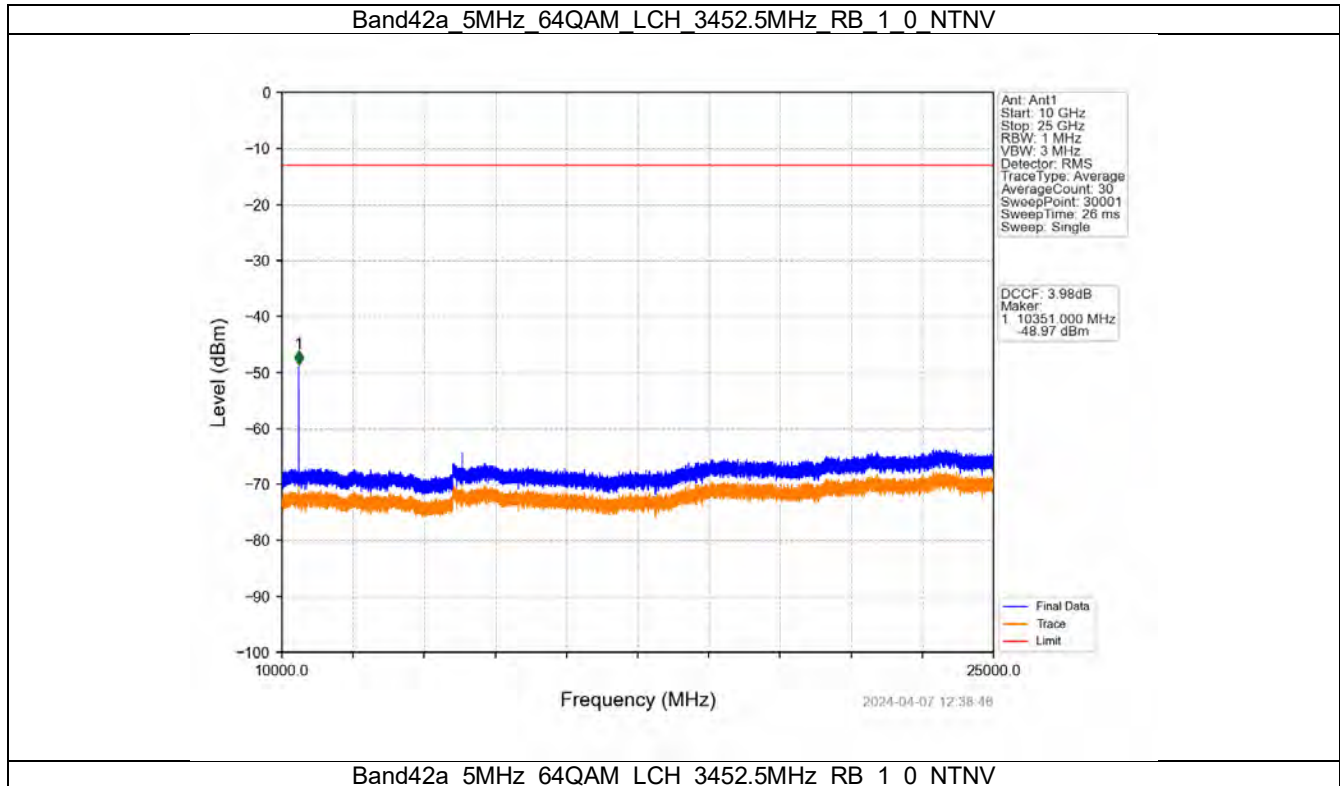


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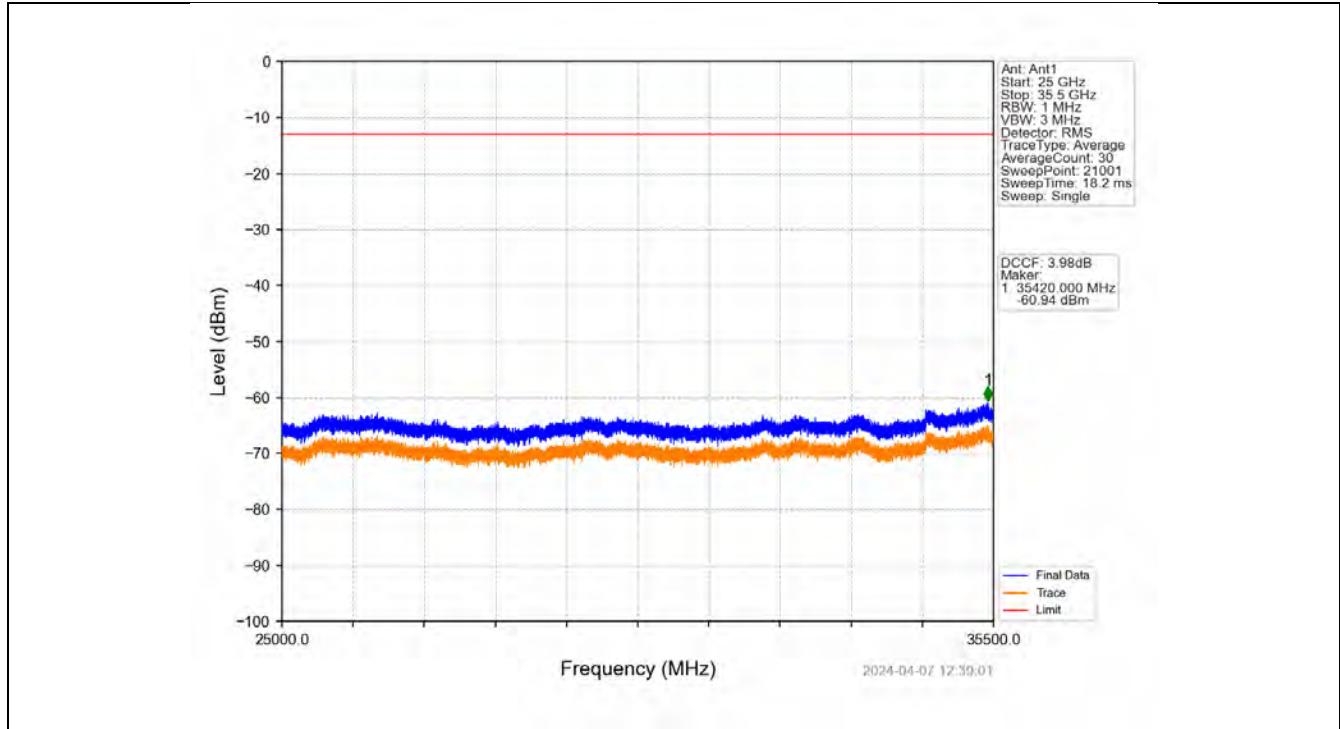


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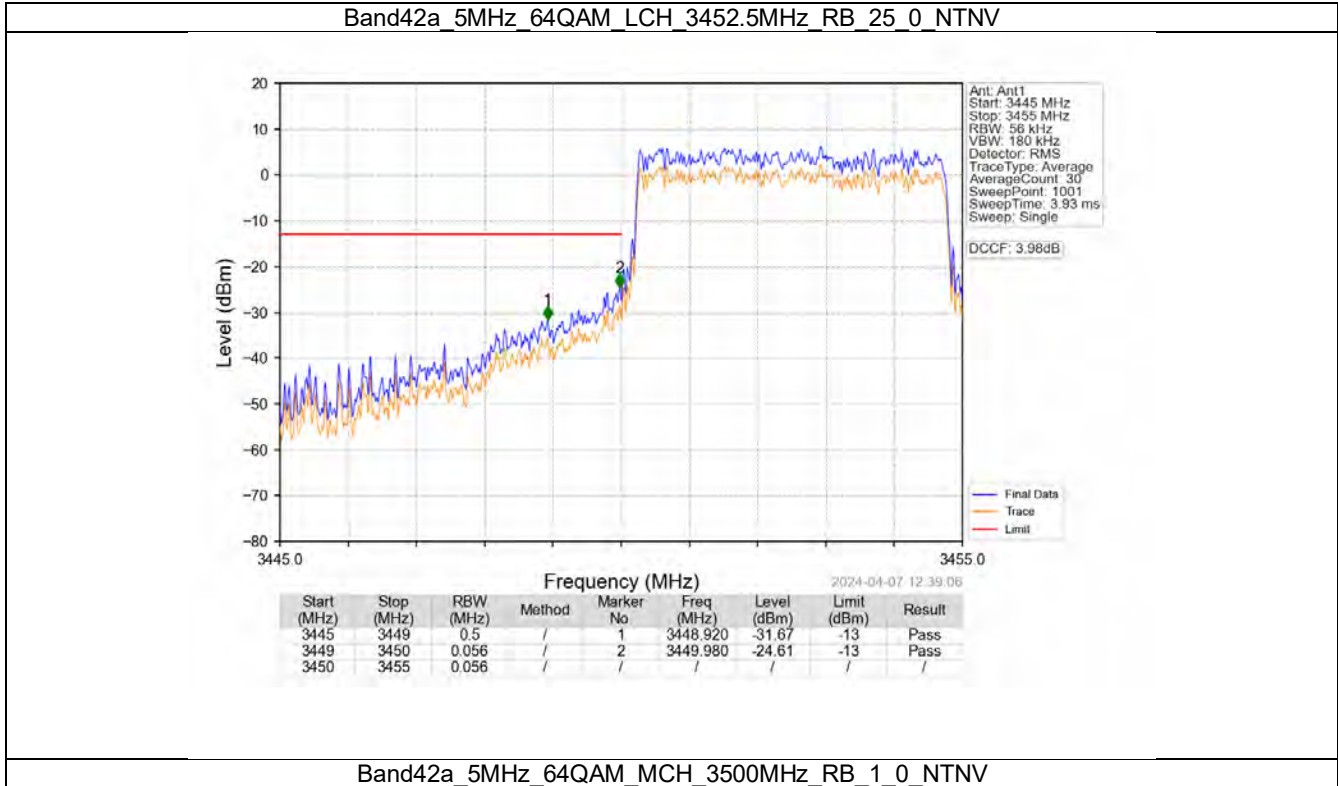


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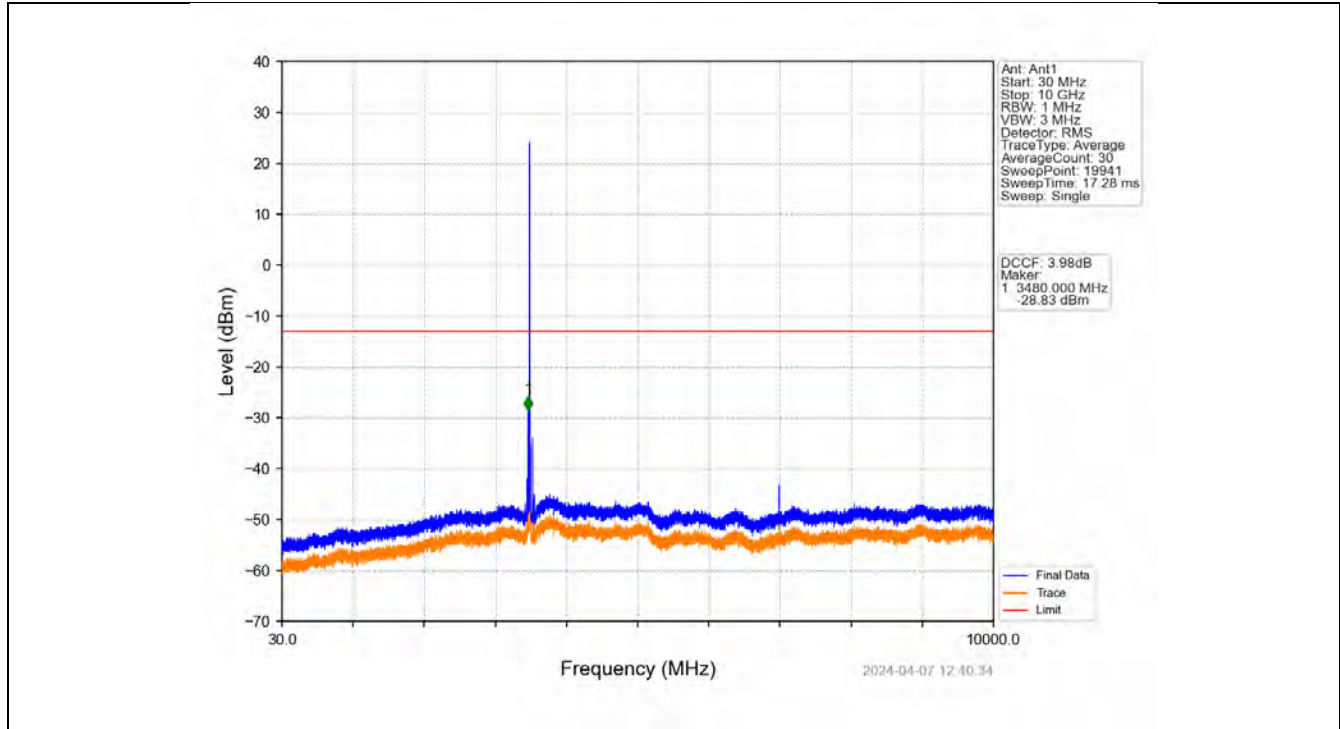


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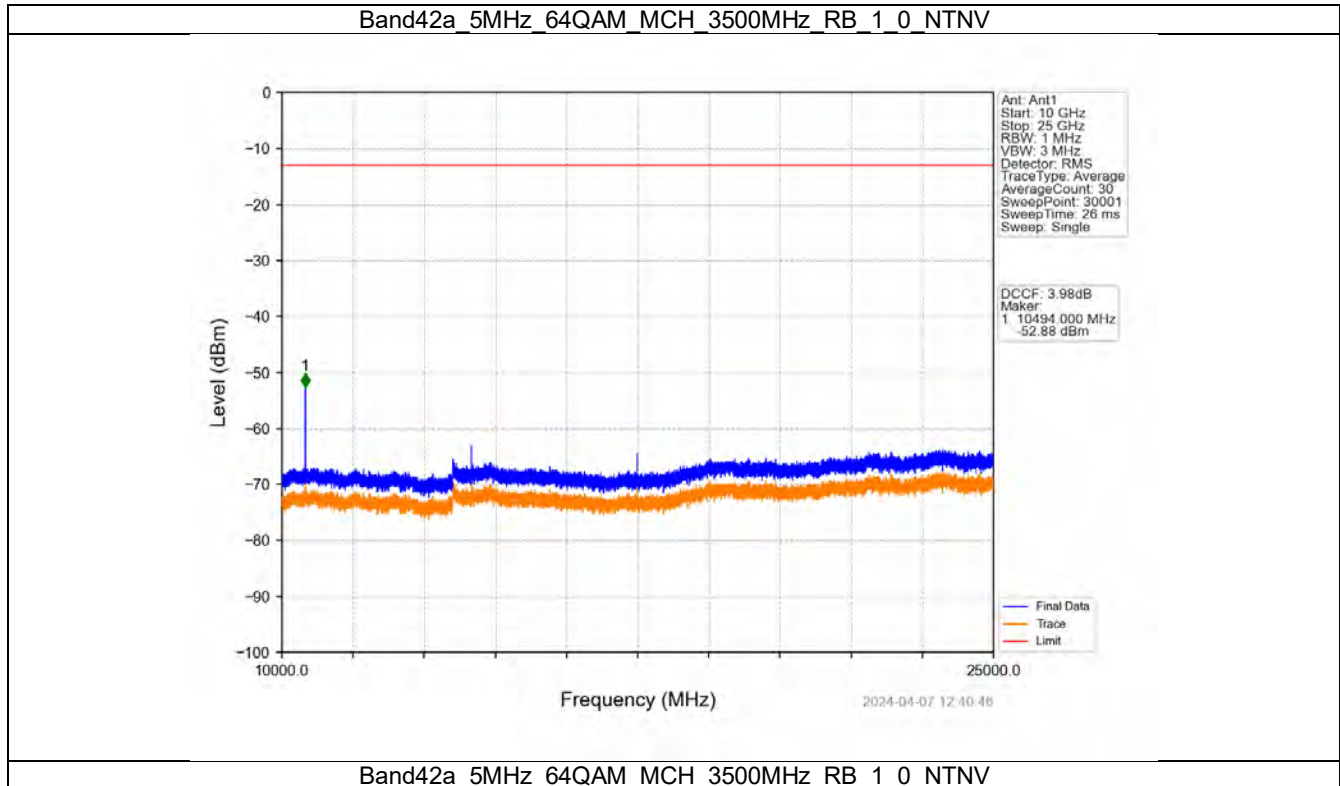


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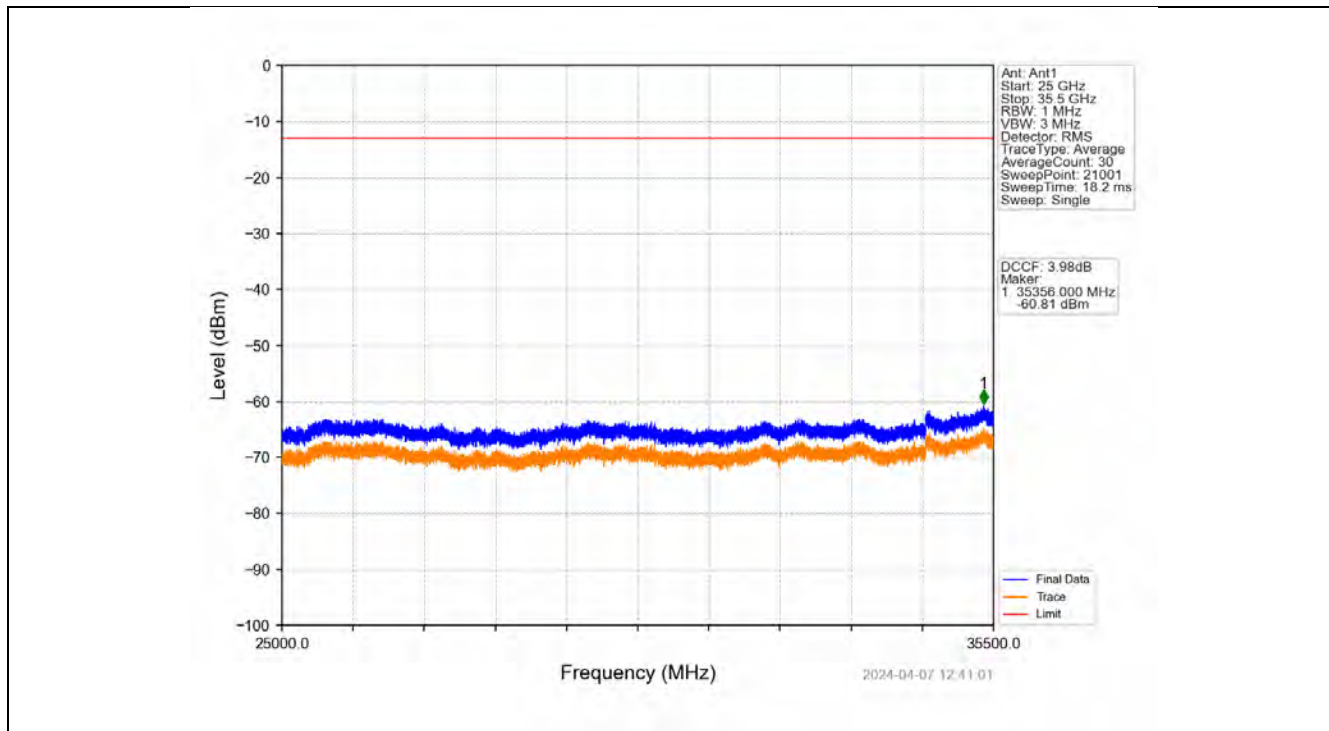
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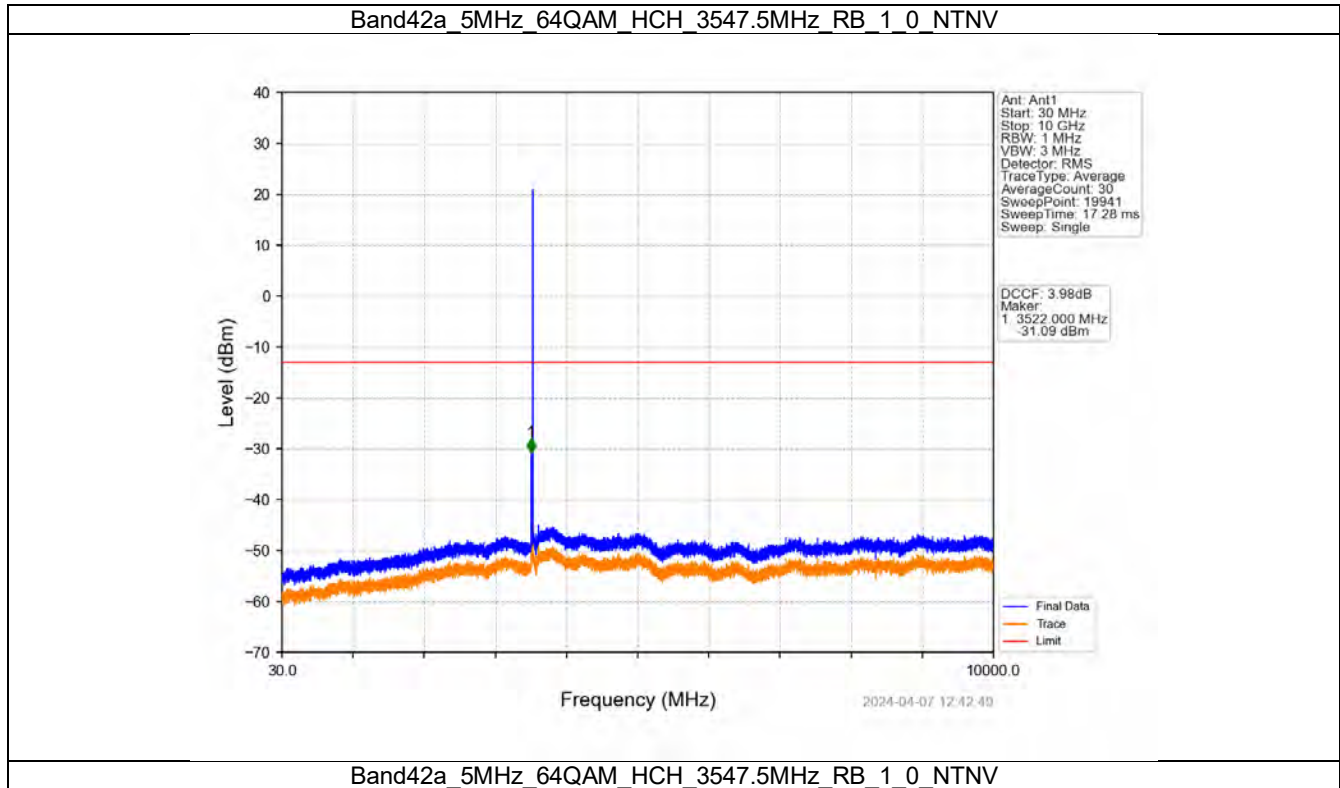


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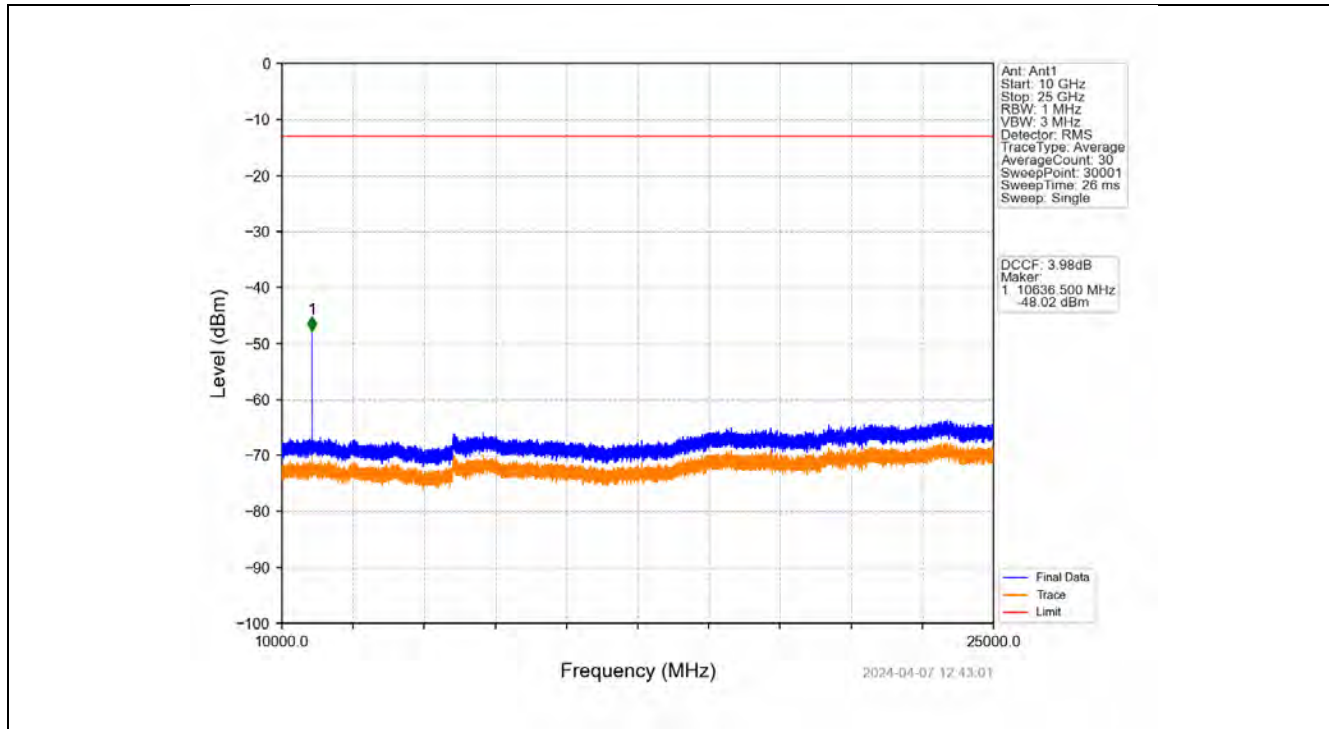
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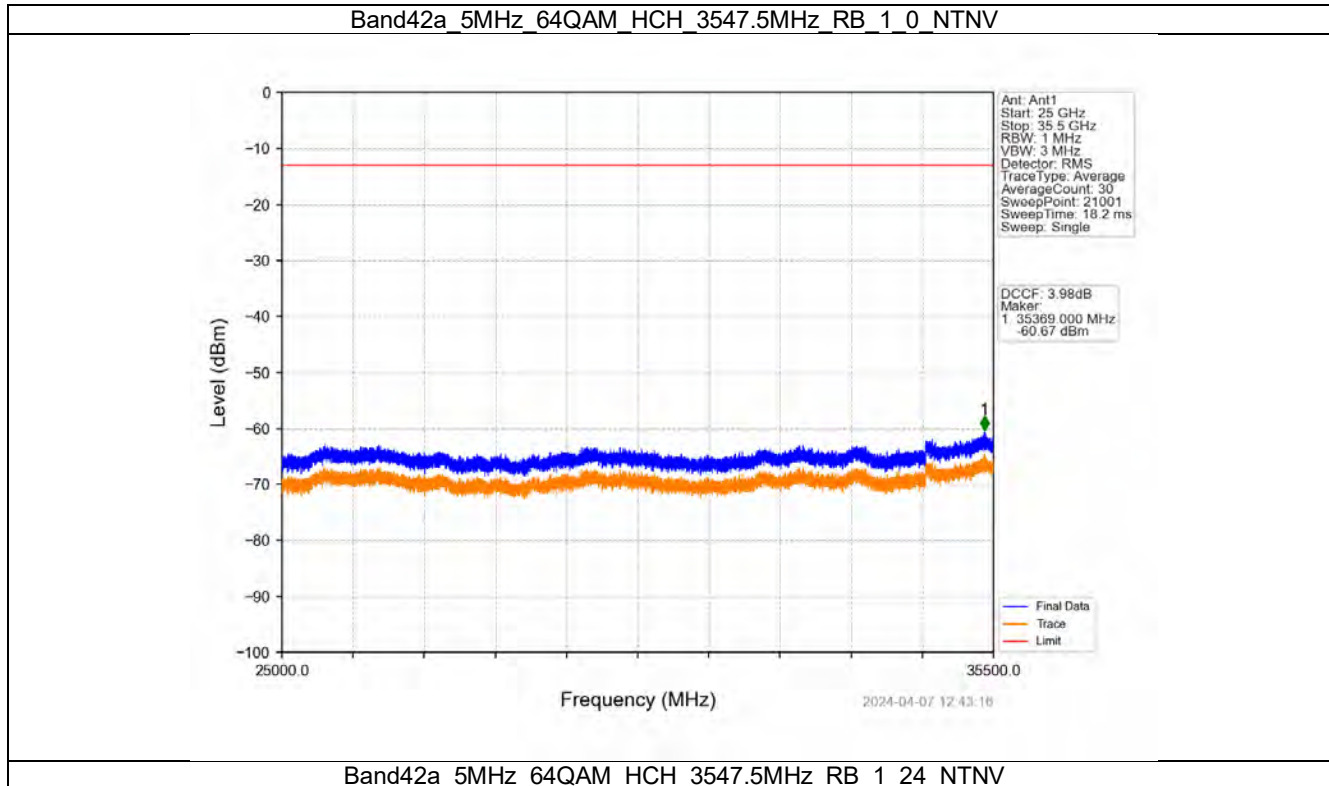
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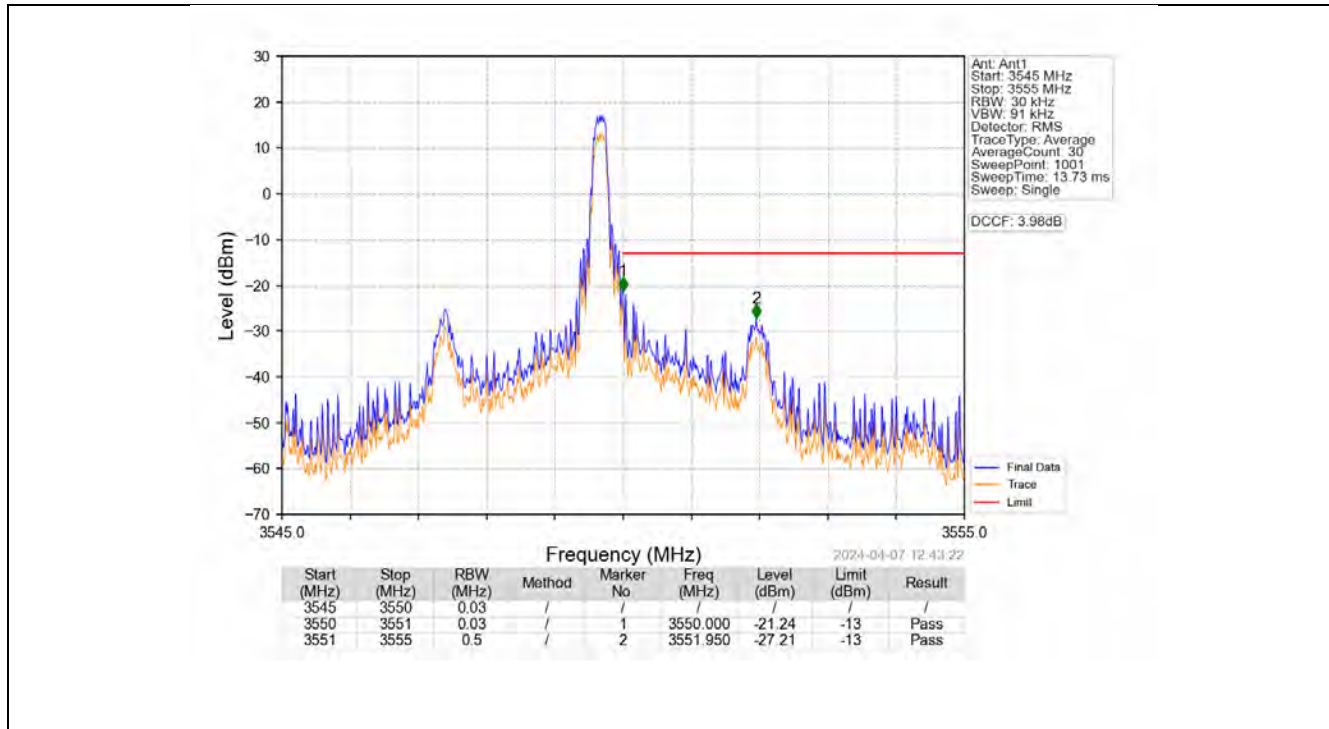
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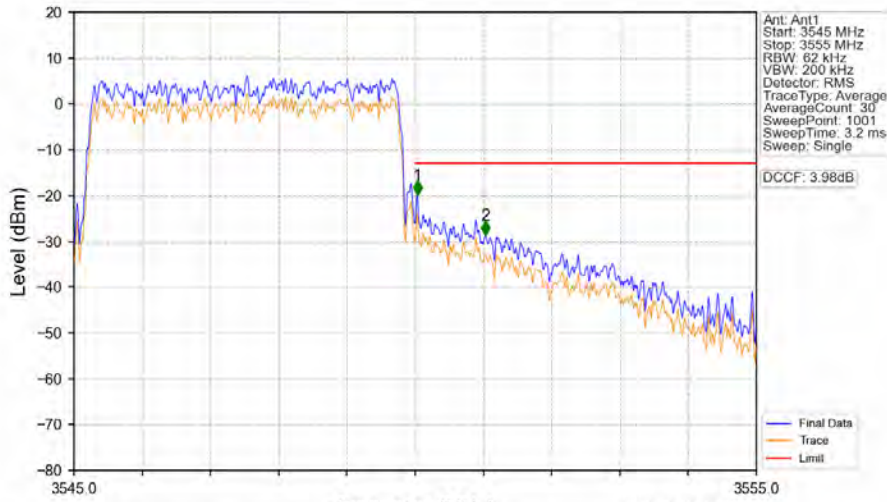
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Band42a\_5MHz\_64QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.062	/	/	/	/	/	/
3550	3551	0.062	/	1	3550.030	-19.87	-13	Pass
3551	3555	0.5	/	2	3551.030	-28.72	-13	Pass



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## 5.2 B42a\_10MHz

### 5.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	3500	1	0	Refer To Test Graph	Pass	
		3545	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass	
50	0	Refer To Test Graph	Pass			
16QAM	3455	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	3500	1	0	Refer To Test Graph	Pass	
		3545	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass	
50	0	Refer To Test Graph	Pass			
64QAM	3455	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	3500	1	0	Refer To Test Graph	Pass	
		3545	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass	
50	0	Refer To Test Graph	Pass			



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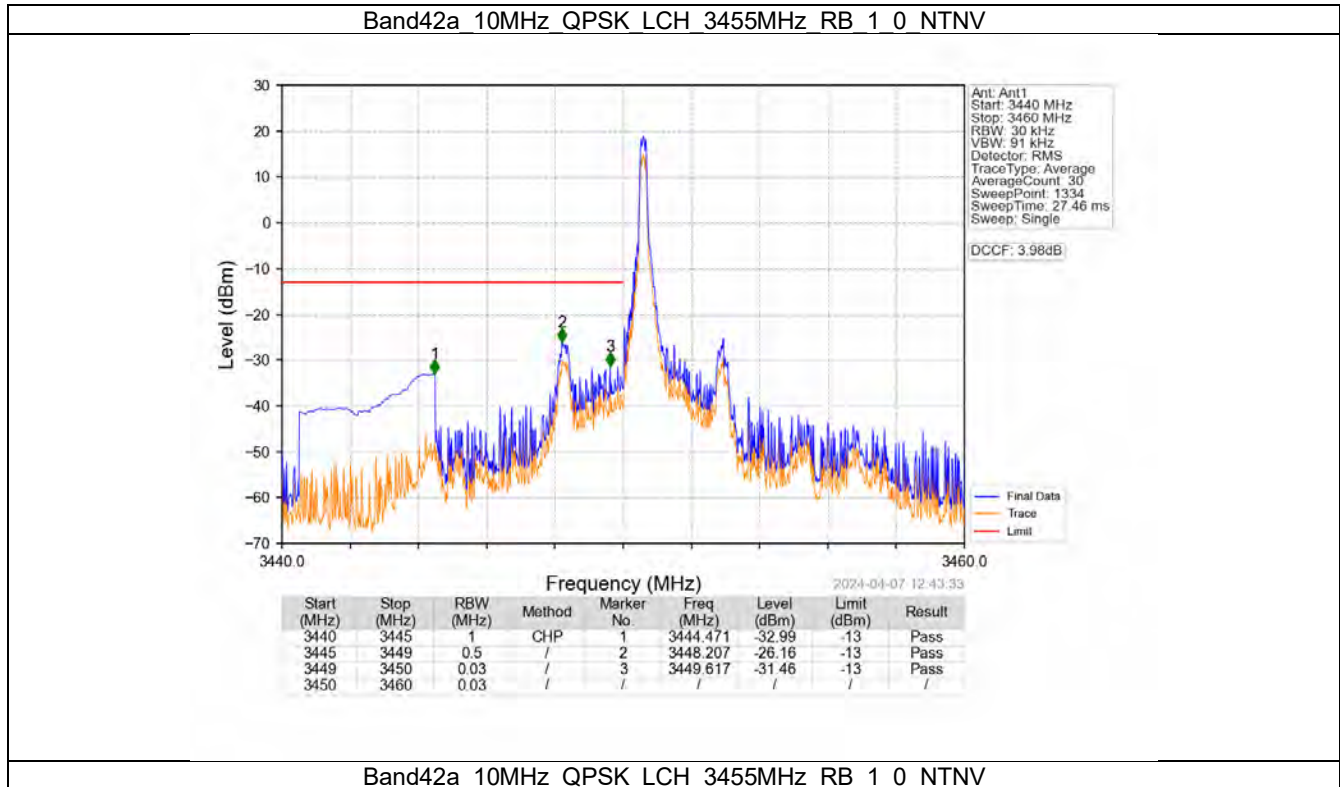
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5.2.2 Test Graph



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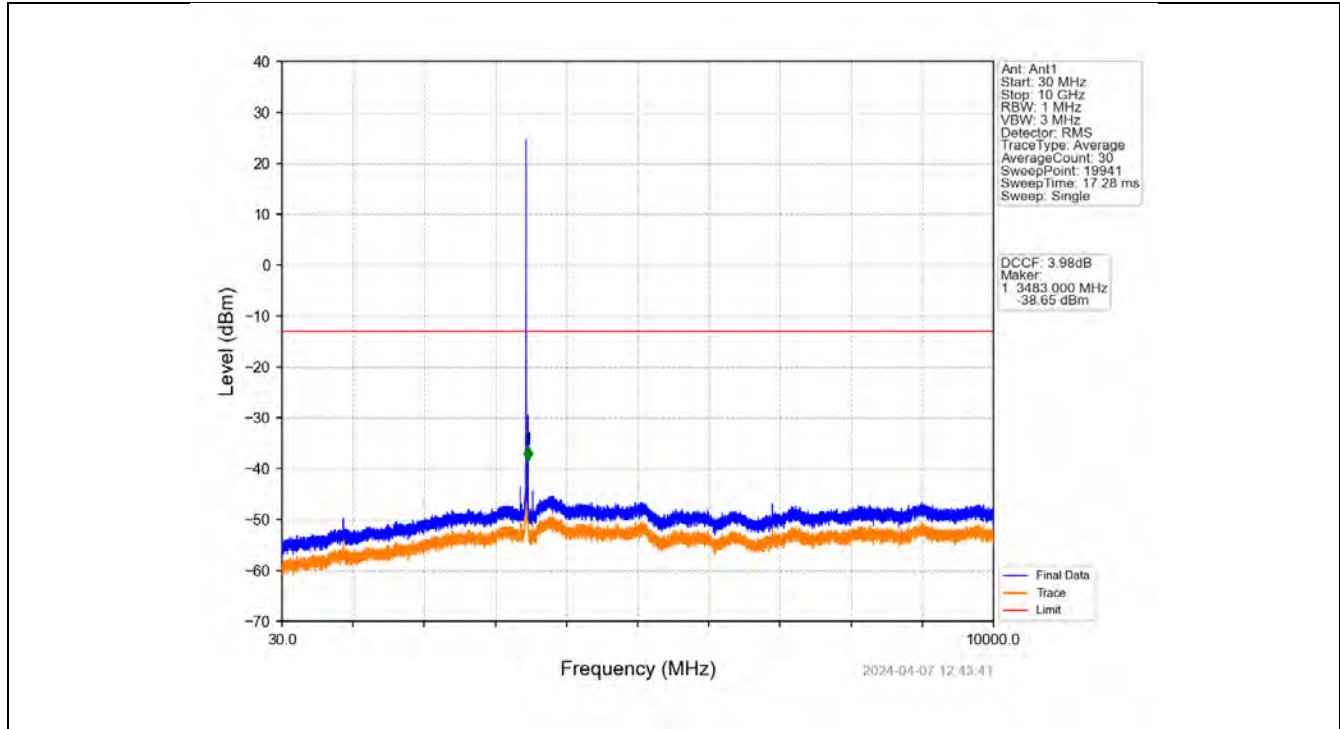


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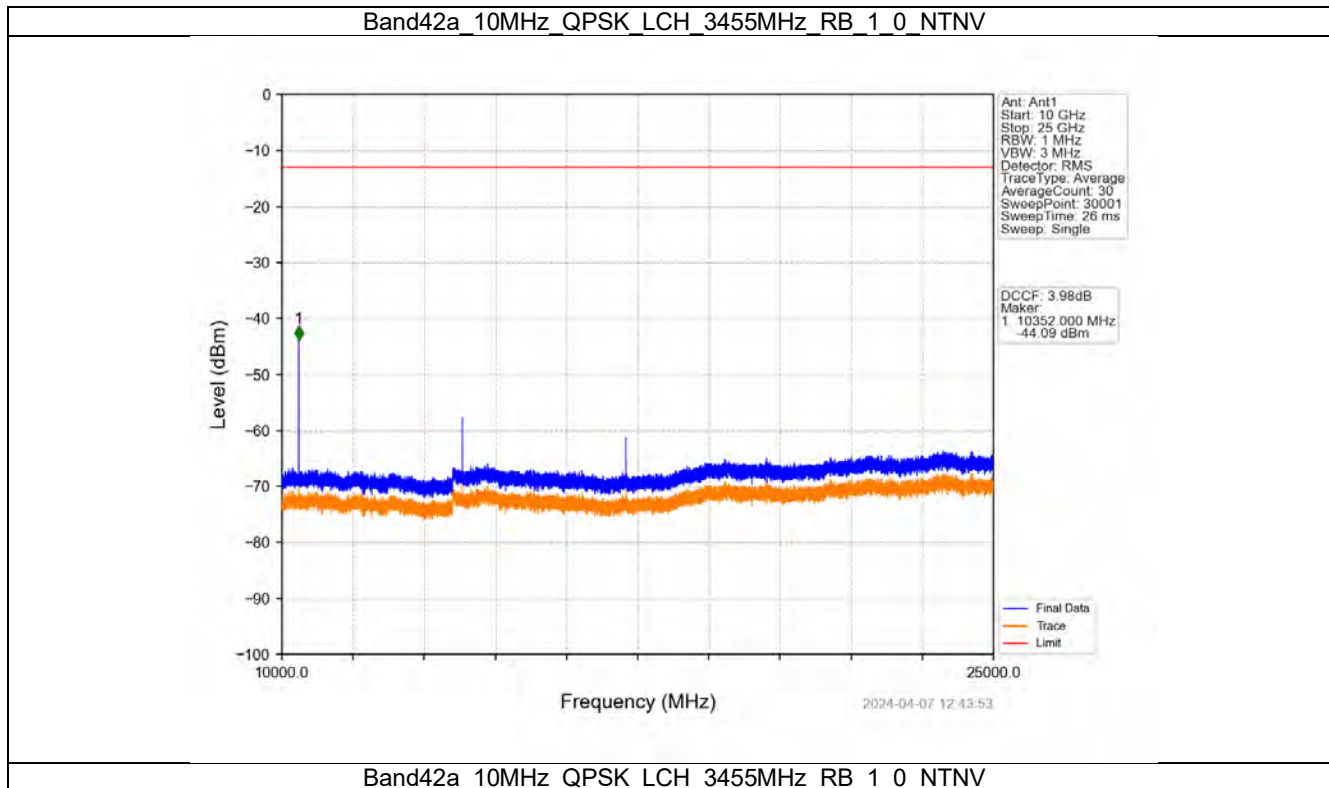
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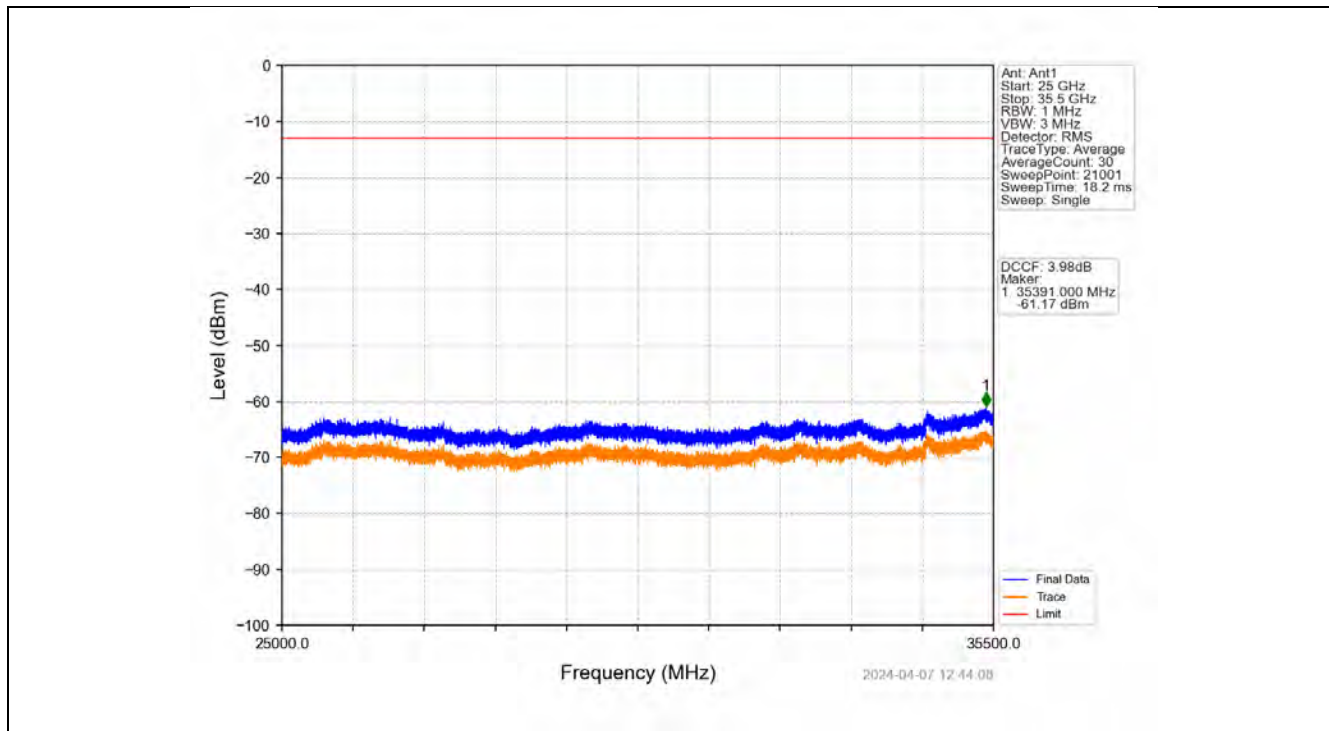
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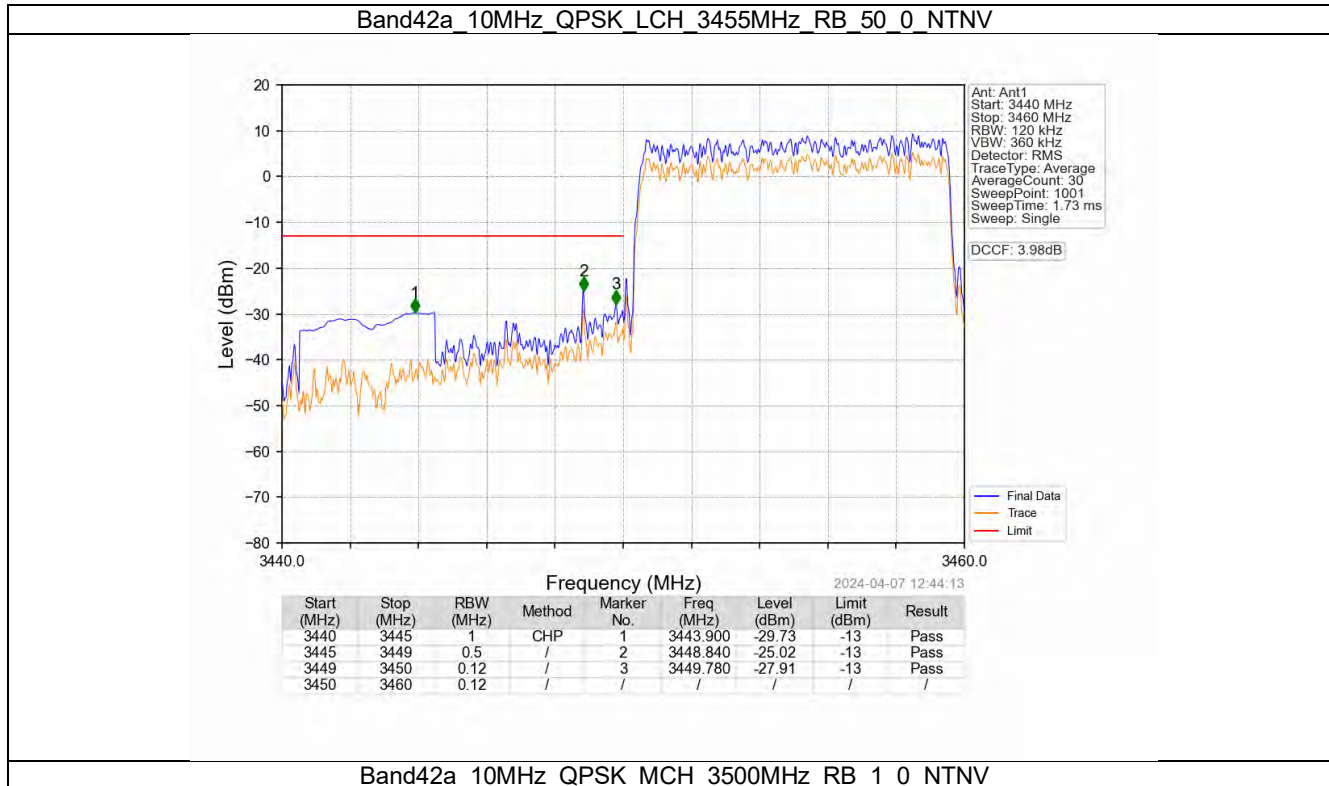
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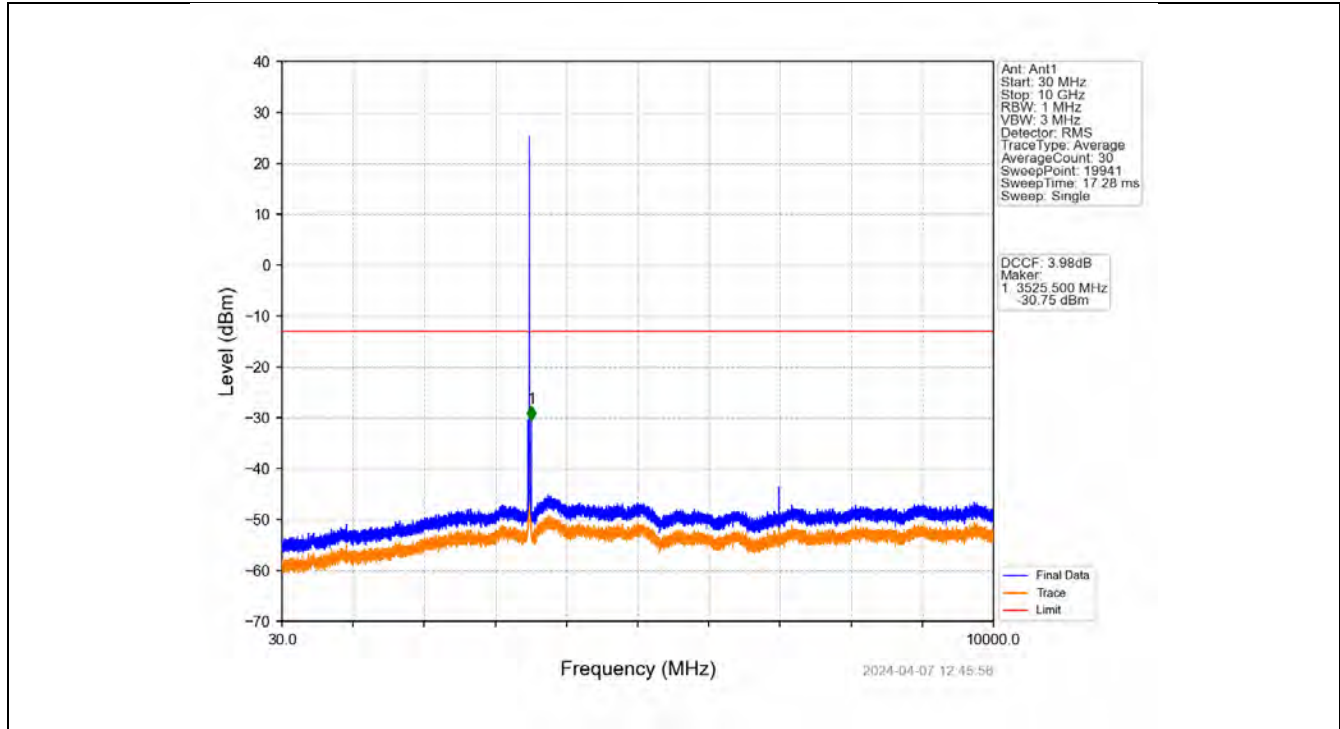


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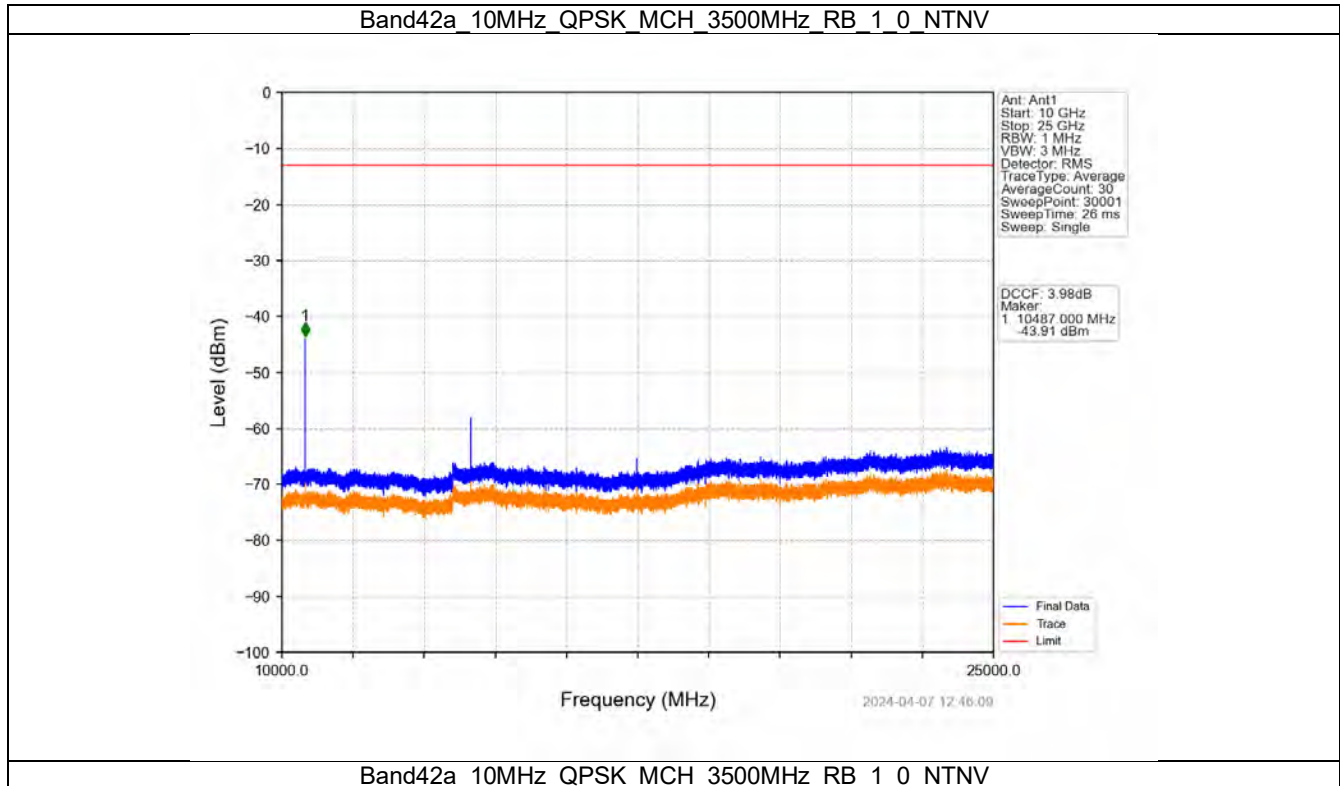


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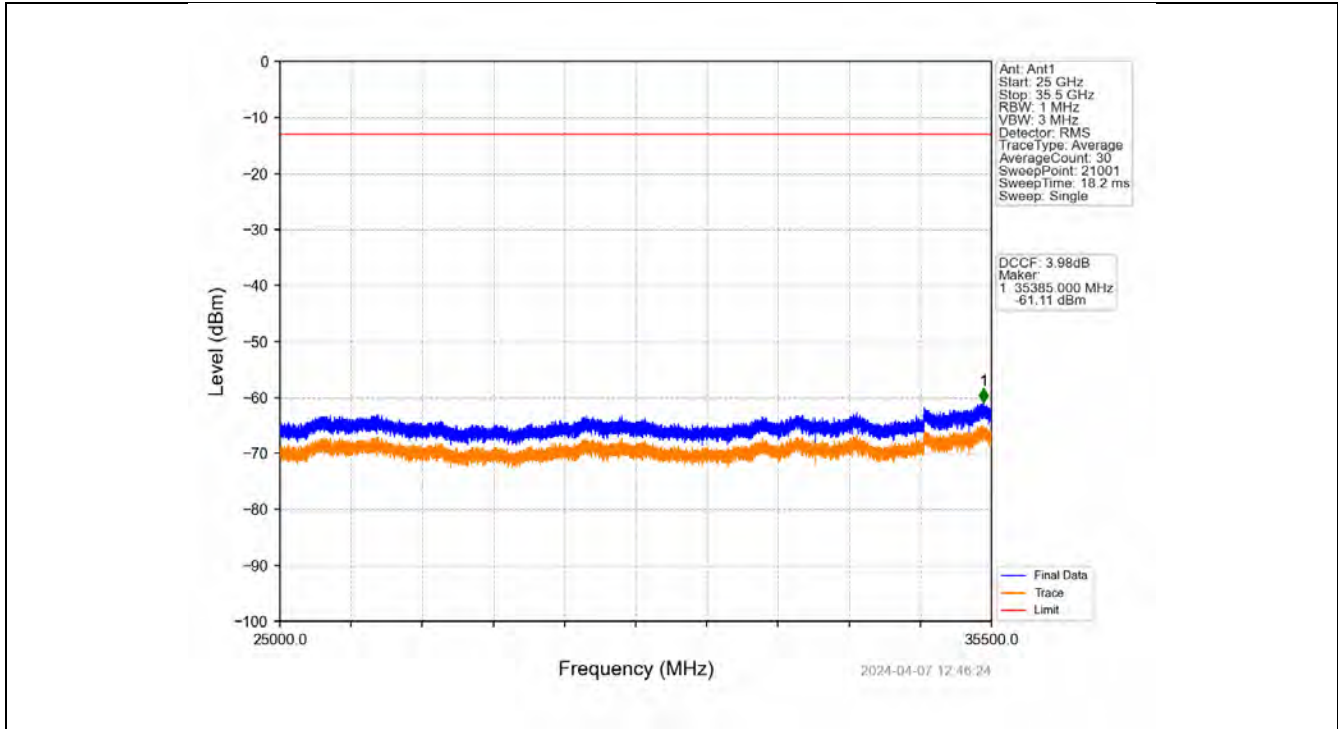
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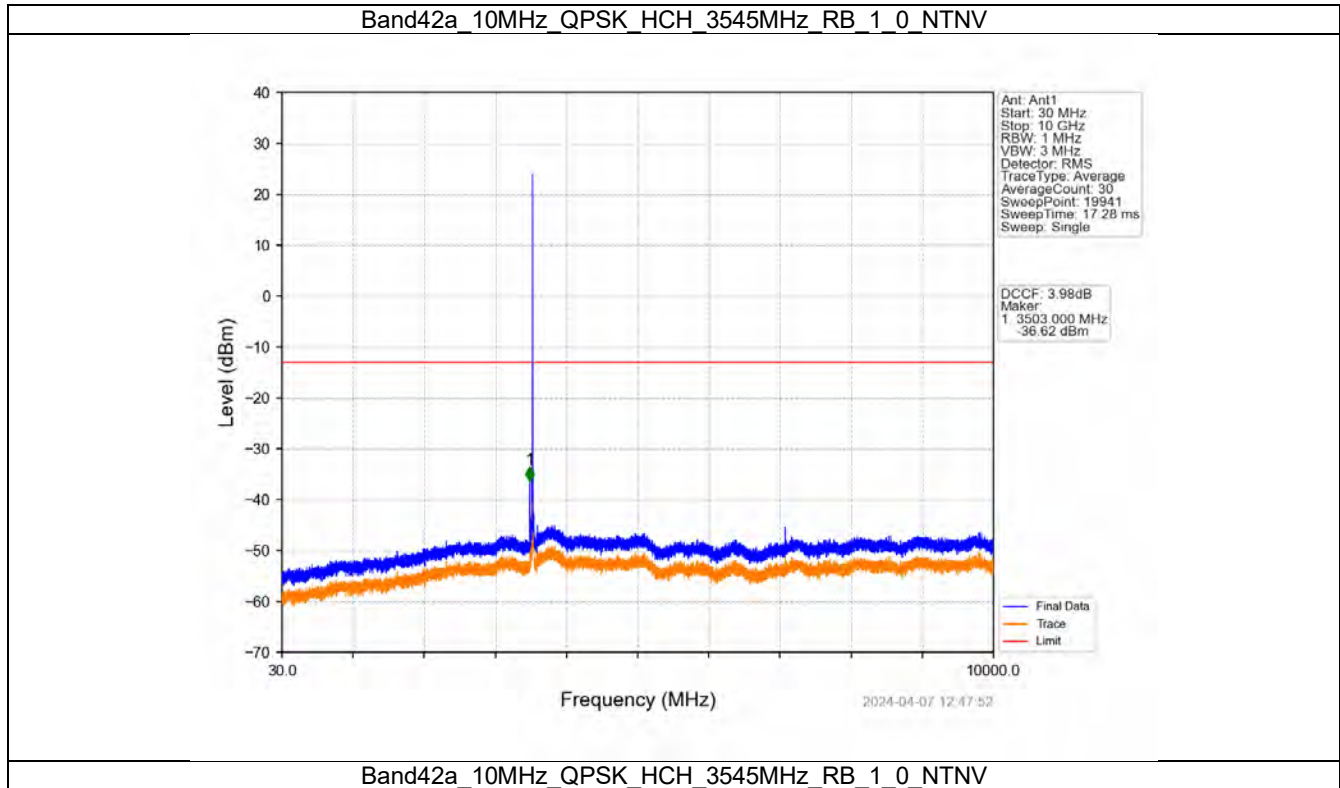


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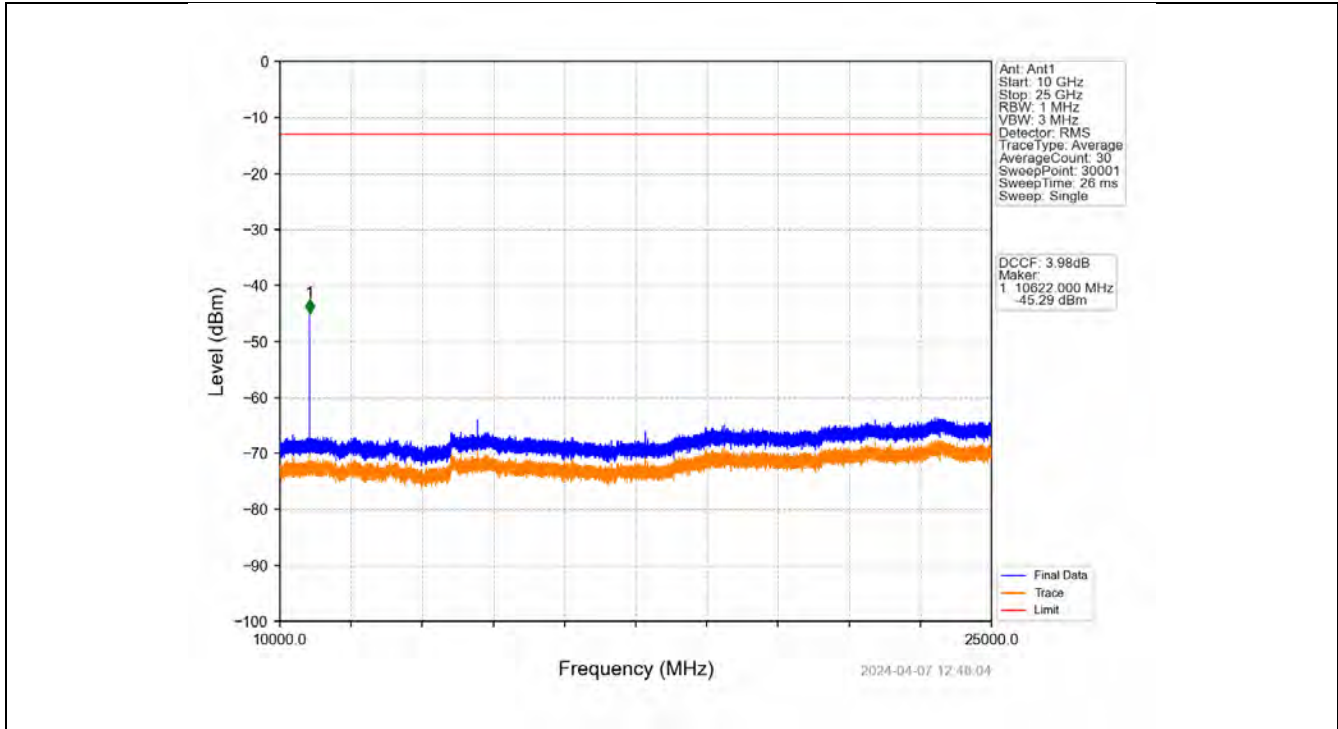


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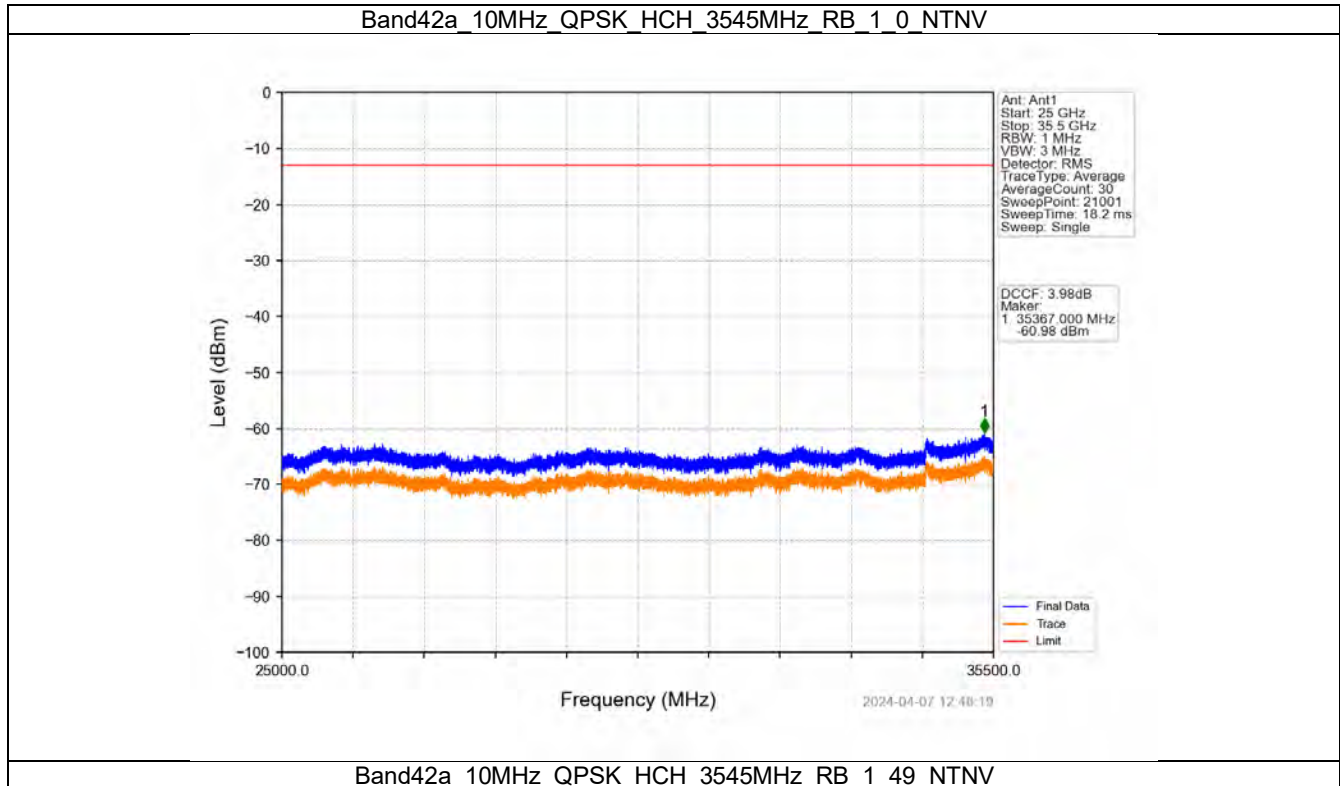


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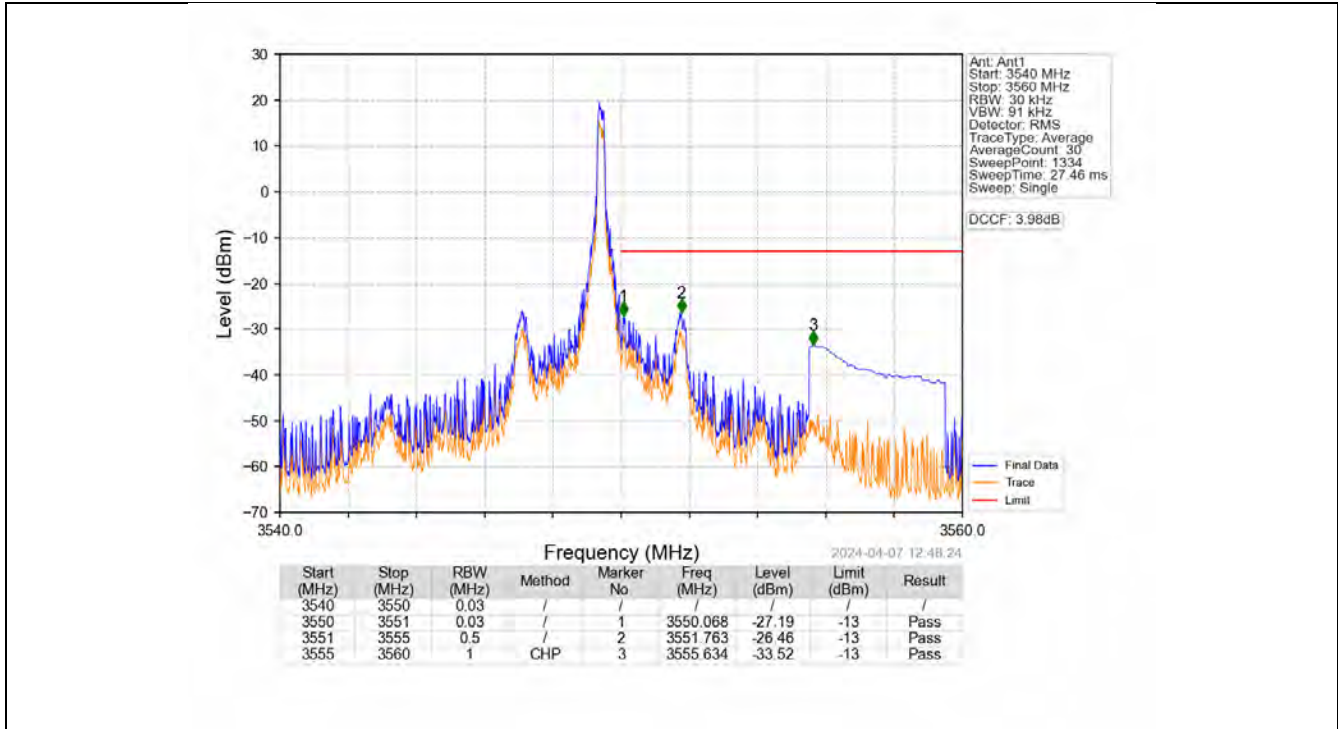


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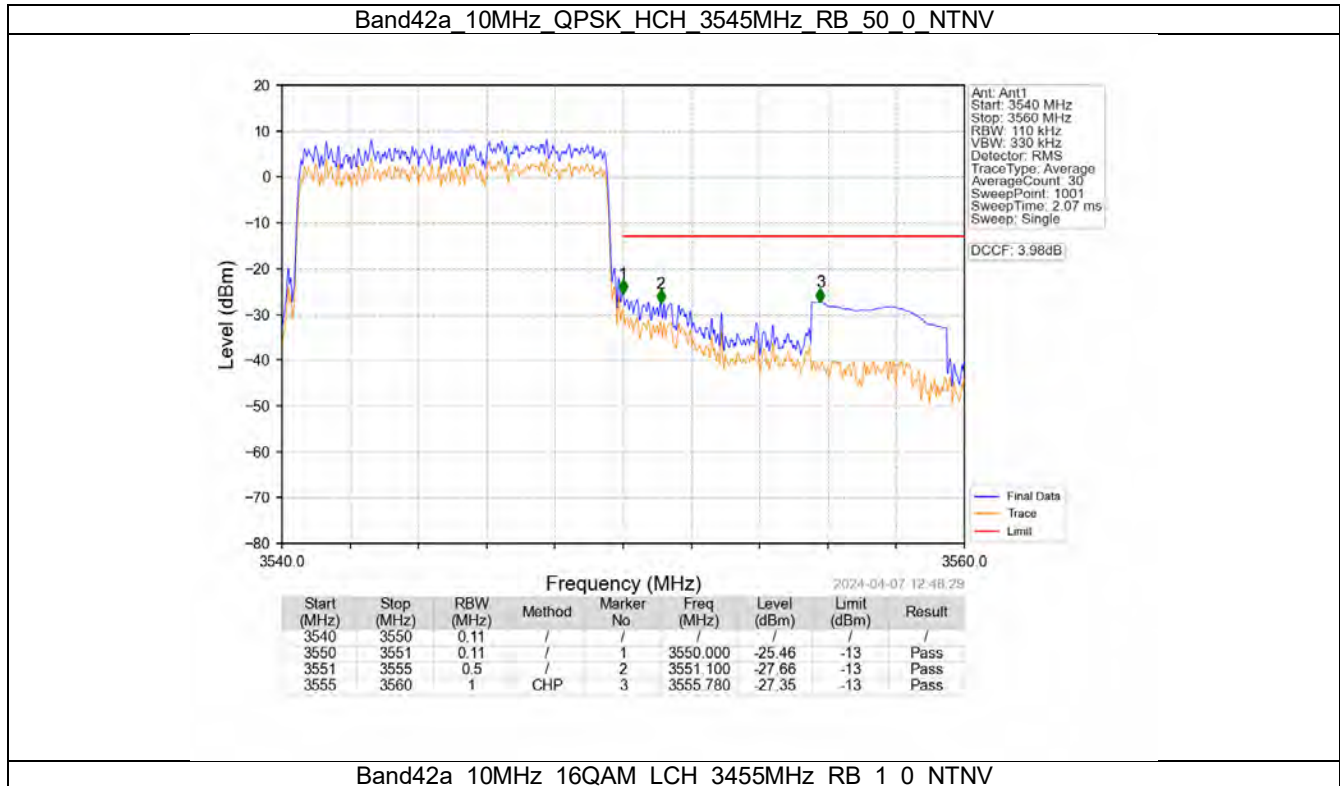


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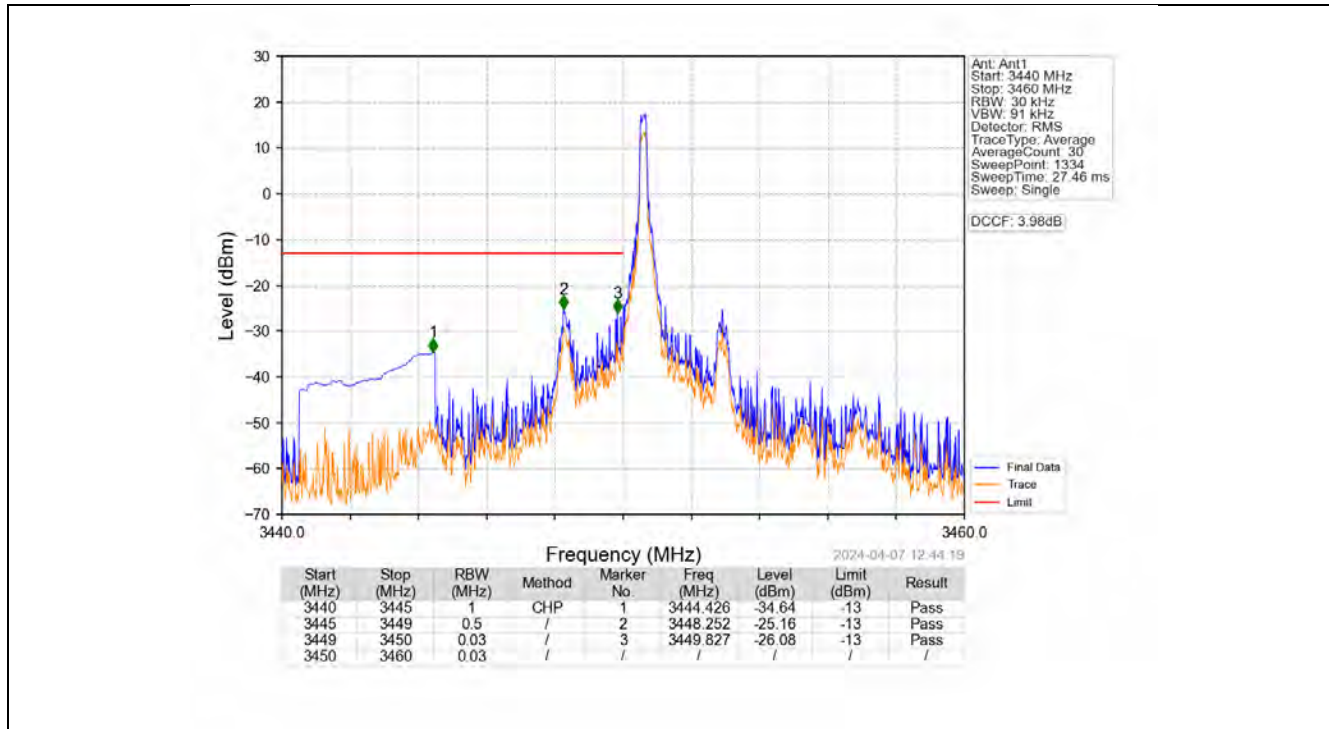
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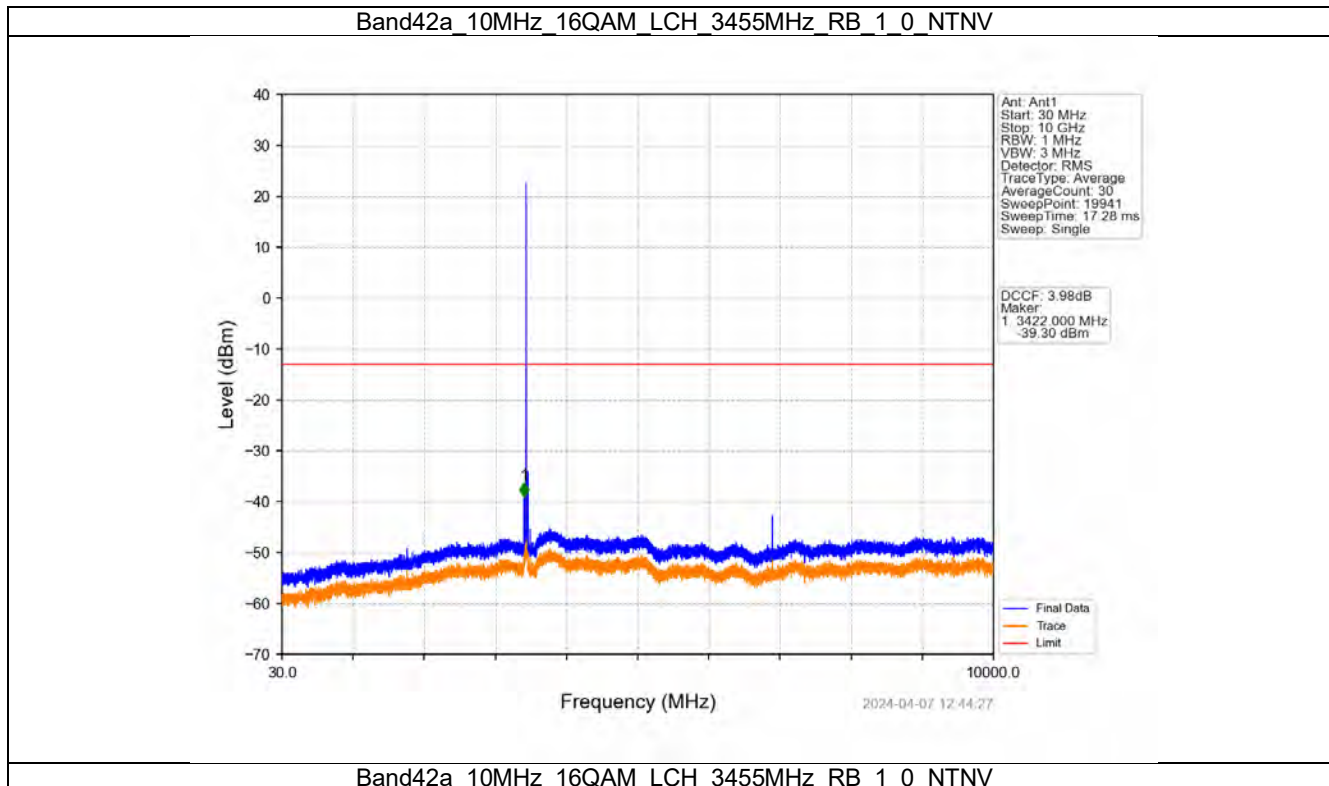
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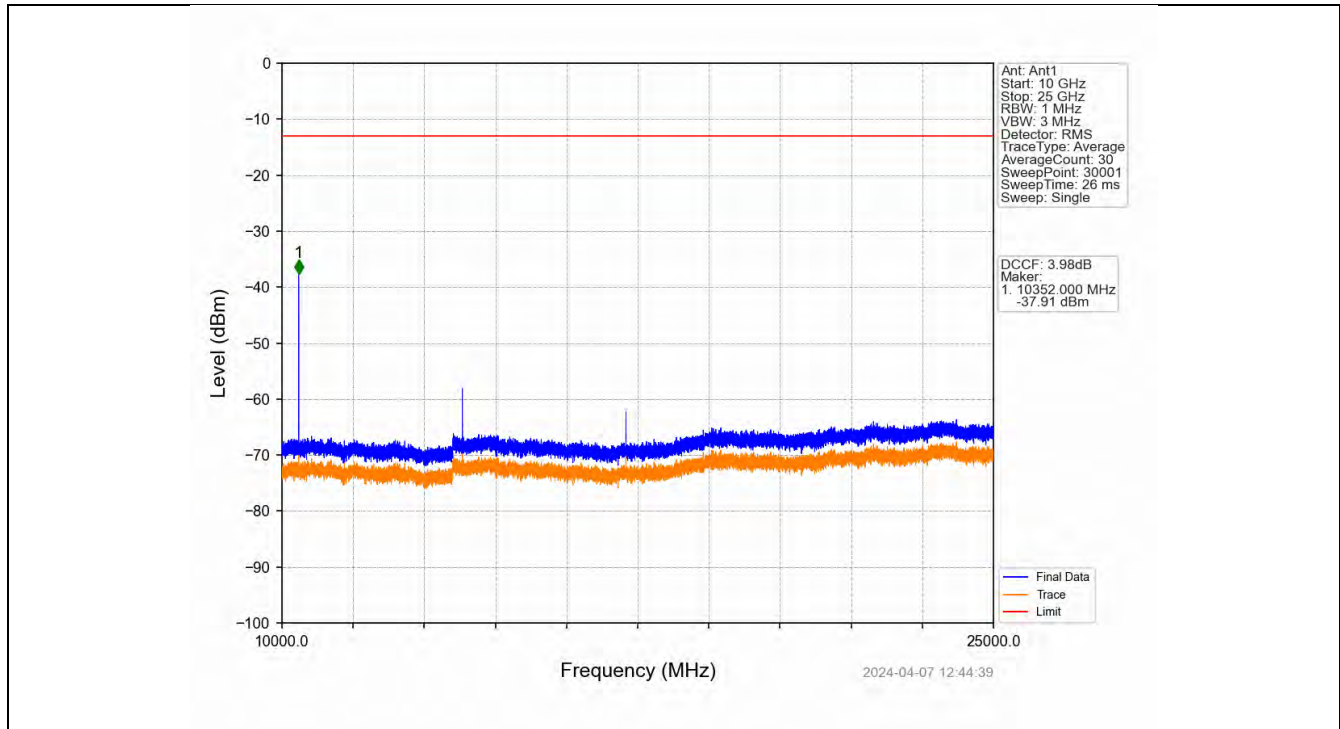


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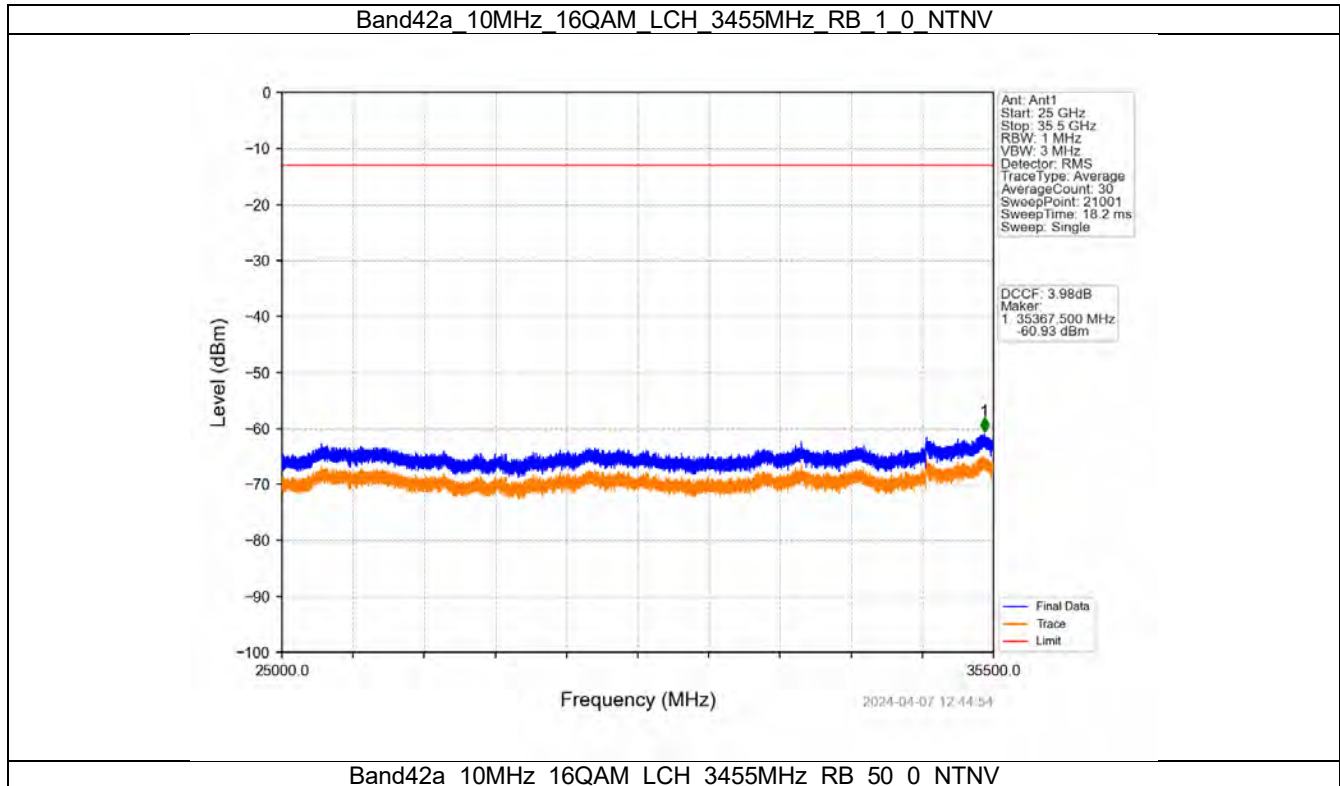


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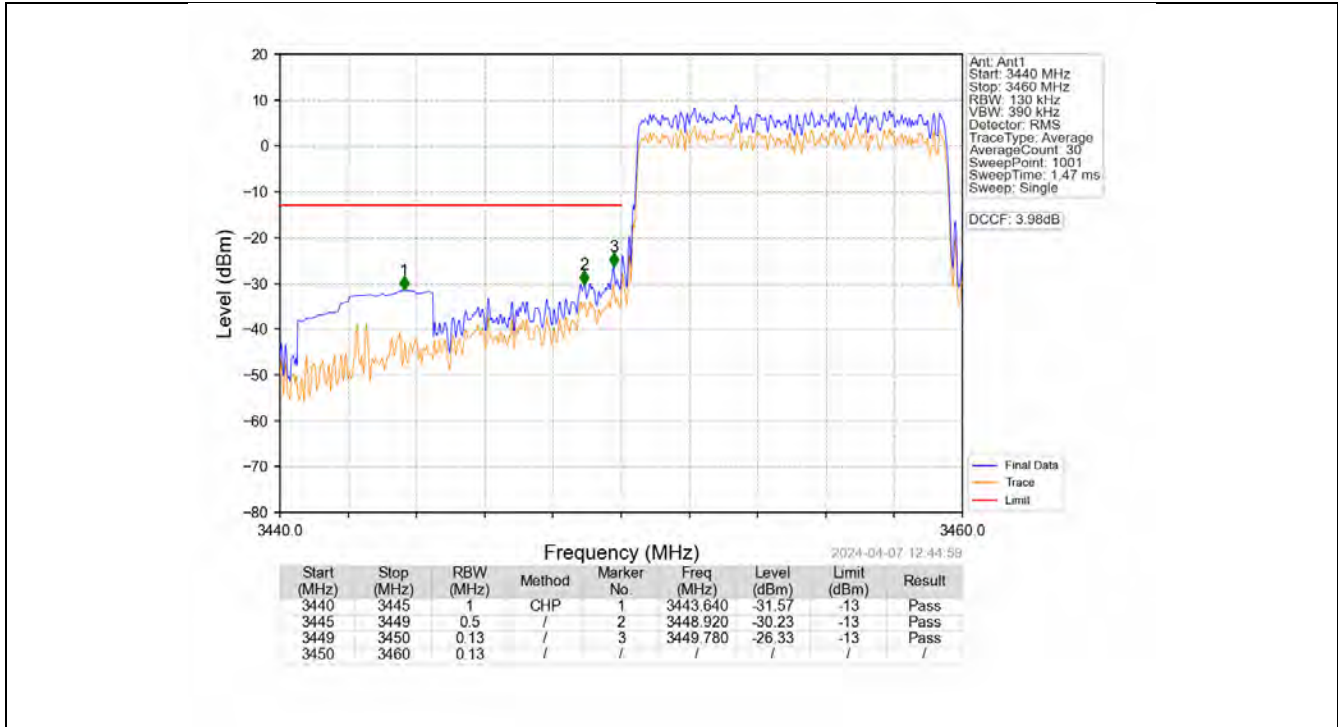


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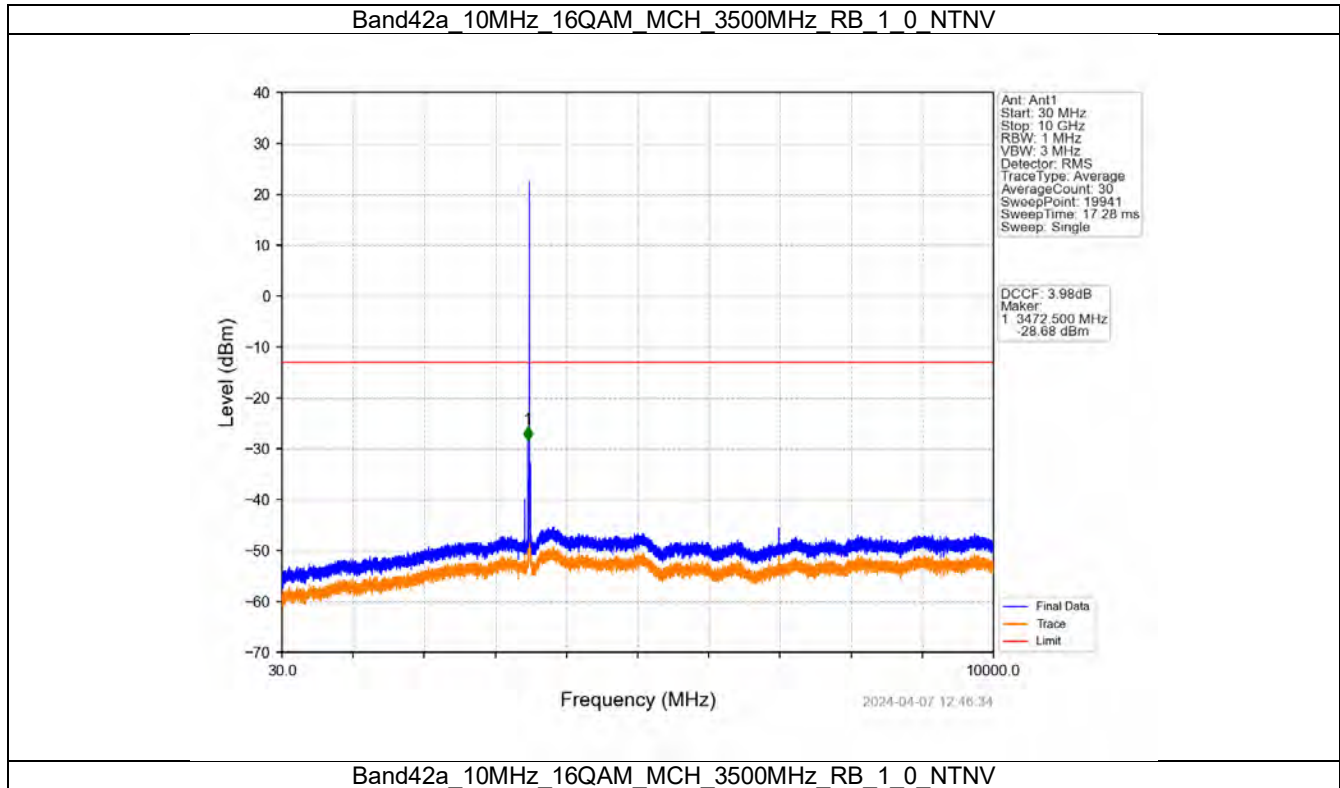


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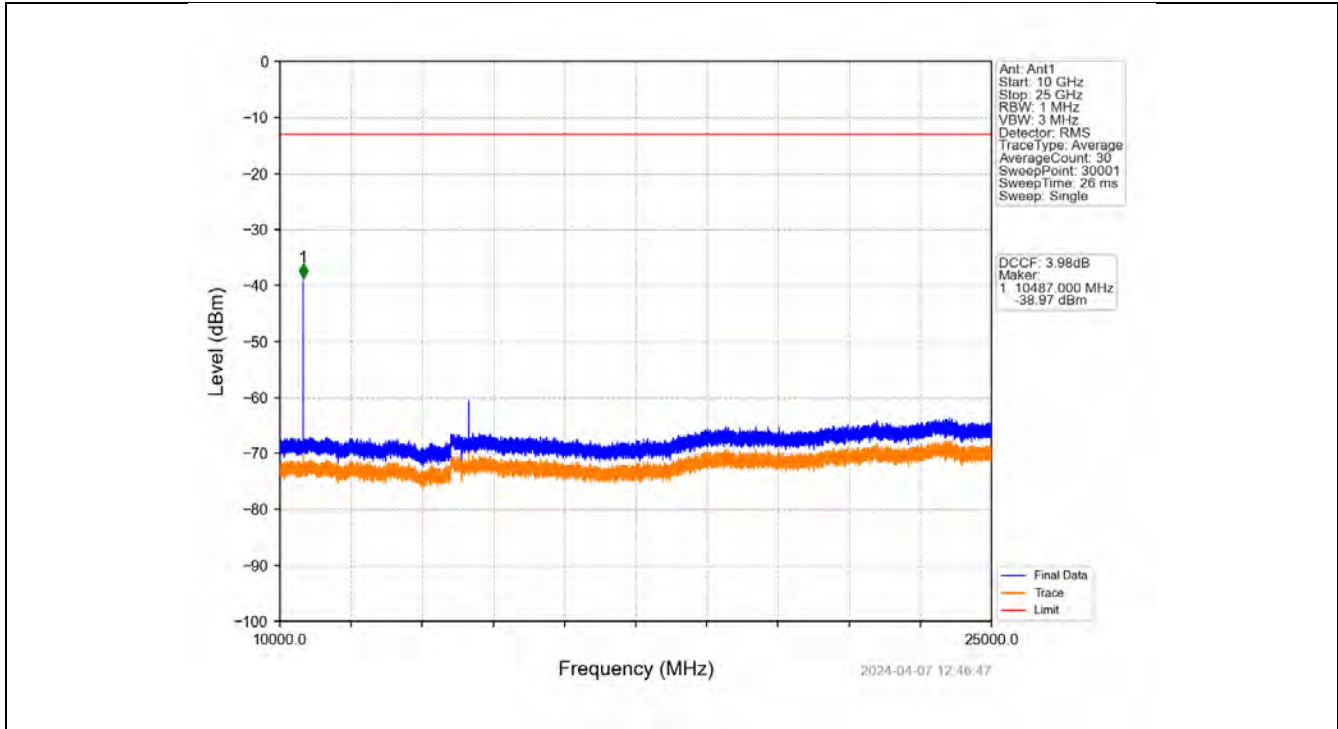


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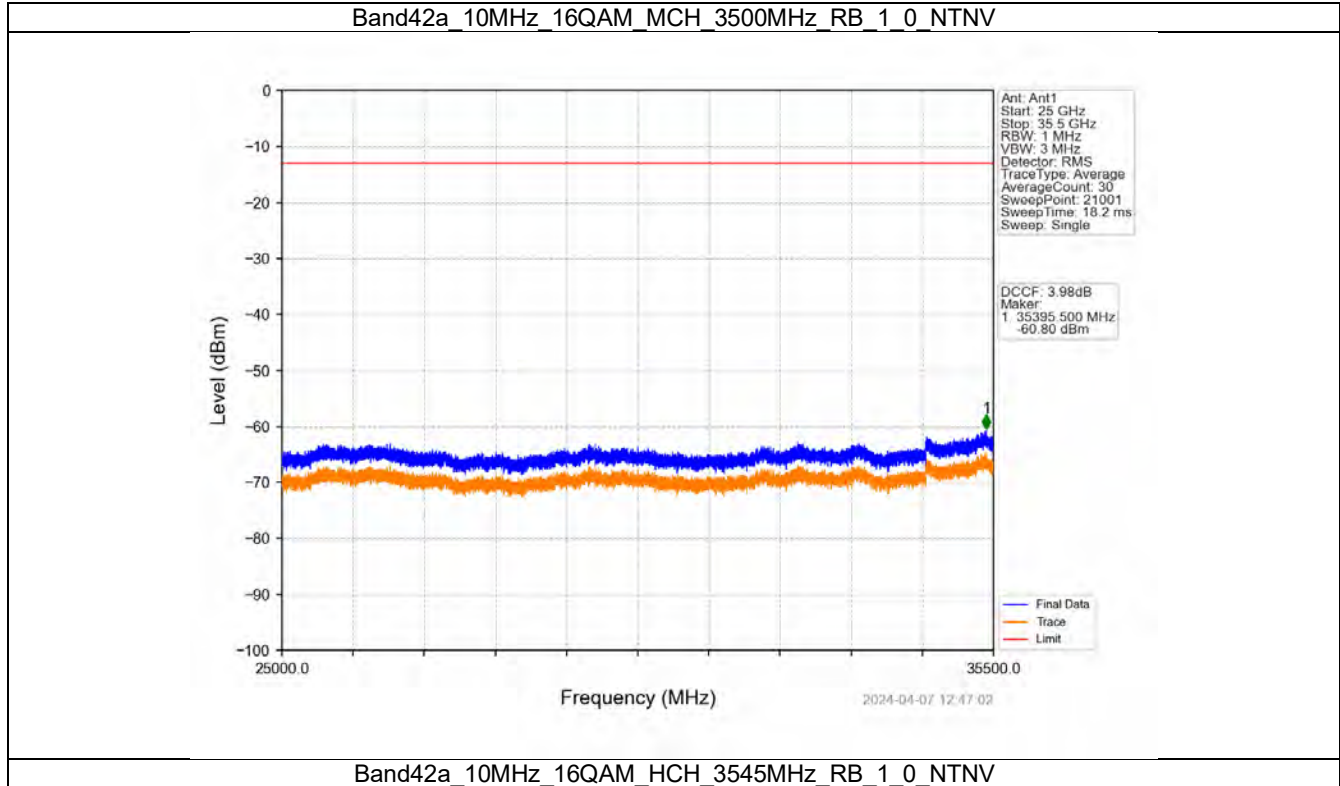


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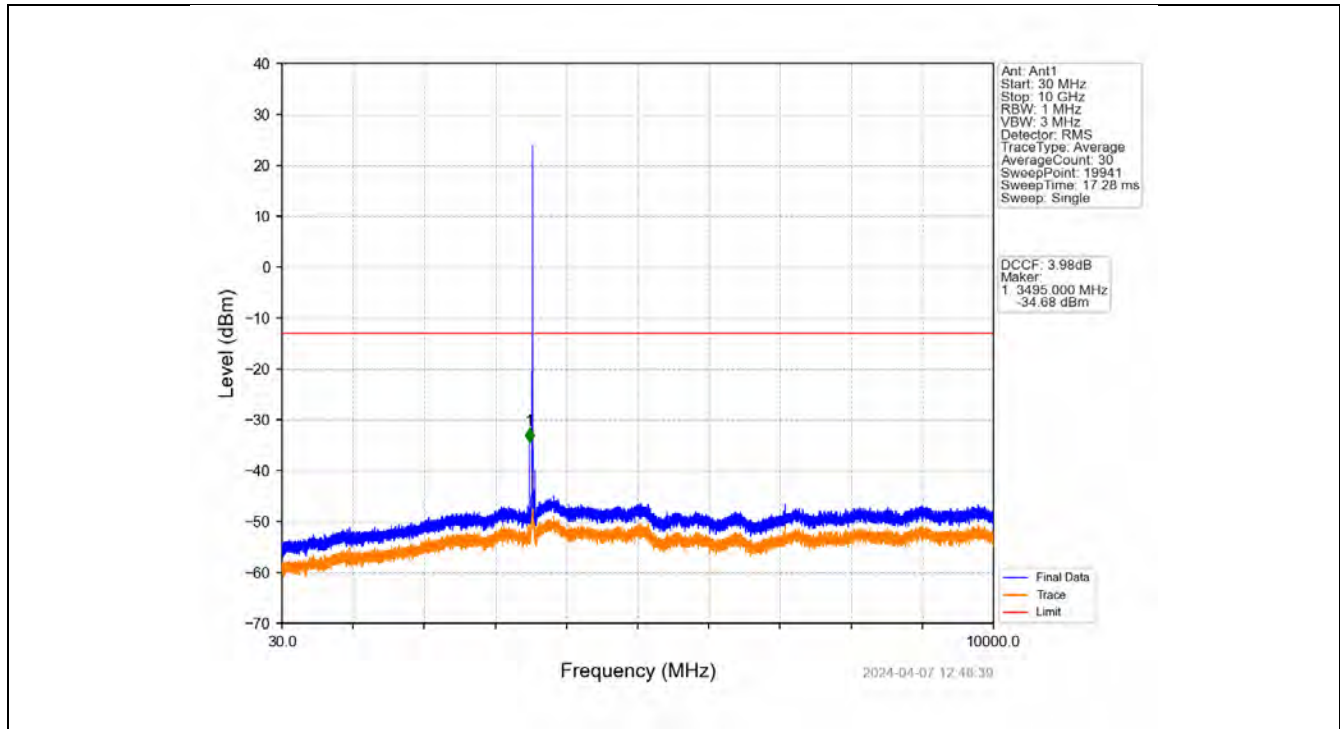


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