



Report No.: SZCR240100038408
Rev.: 01
Page: 1 of 159

Appendix B.12

LTE Band 30



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Report No.: SZCR240100038408

Rev.: 01

Page: 2 of 159

1. Effective (Isotropic) Radiated Power Output Data

1.1 B30_5MHz_EIRP

1.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2307.5	1	0	22.97	0.40	23.37	<=23.98	Pass		
			13	23.04	0.40	23.44	<=23.98	Pass		
			24	23.03	0.40	23.43	<=23.98	Pass		
		12	0	22.11	0.40	22.51	<=23.98	Pass		
			6	22.11	0.40	22.51	<=23.98	Pass		
			13	22.13	0.40	22.53	<=23.98	Pass		
		25	0	22.15	0.40	22.55	<=23.98	Pass		
		2310	1	0	21.49	0.40	21.89	<=23.98	Pass	
				13	21.41	0.40	21.81	<=23.98	Pass	
	24			21.50	0.40	21.90	<=23.98	Pass		
	12		0	21.47	0.40	21.87	<=23.98	Pass		
			6	21.34	0.40	21.74	<=23.98	Pass		
			13	21.51	0.40	21.91	<=23.98	Pass		
	25		0	21.39	0.40	21.79	<=23.98	Pass		
	2312.5		1	0	21.31	0.40	21.71	<=23.98	Pass	
				13	21.34	0.40	21.74	<=23.98	Pass	
		24		21.25	0.40	21.65	<=23.98	Pass		
		12	0	21.31	0.40	21.71	<=23.98	Pass		
			6	21.22	0.40	21.62	<=23.98	Pass		
			13	21.25	0.40	21.65	<=23.98	Pass		
		25	0	21.42	0.40	21.82	<=23.98	Pass		
		16QAM	2307.5	1	0	22.35	0.40	22.75	<=23.98	Pass
					13	22.39	0.40	22.79	<=23.98	Pass
	24				22.31	0.40	22.71	<=23.98	Pass	
12	0			21.18	0.40	21.58	<=23.98	Pass		
	6			21.25	0.40	21.65	<=23.98	Pass		
	13			21.18	0.40	21.58	<=23.98	Pass		
25	0			21.19	0.40	21.59	<=23.98	Pass		
2310	1			0	21.34	0.40	21.74	<=23.98	Pass	
				13	21.39	0.40	21.79	<=23.98	Pass	
			24	21.50	0.40	21.90	<=23.98	Pass		
	12		0	21.39	0.40	21.79	<=23.98	Pass		
			6	21.42	0.40	21.82	<=23.98	Pass		
			13	21.46	0.40	21.86	<=23.98	Pass		
	25		0	21.39	0.40	21.79	<=23.98	Pass		
	2312.5		1	0	21.41	0.40	21.81	<=23.98	Pass	
				13	21.26	0.40	21.66	<=23.98	Pass	



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Report No.: SZCR240100038408

Rev.: 01

Page: 3 of 159

64QAM	2307.5	12	24	21.30	0.40	21.70	<=23.98	Pass
			0	21.21	0.40	21.61	<=23.98	Pass
			6	21.32	0.40	21.72	<=23.98	Pass
		25	13	21.24	0.40	21.64	<=23.98	Pass
			0	21.25	0.40	21.65	<=23.98	Pass
			1	21.33	0.40	21.73	<=23.98	Pass
	2310	1	13	21.44	0.40	21.84	<=23.98	Pass
			24	21.36	0.40	21.76	<=23.98	Pass
			0	20.22	0.40	20.62	<=23.98	Pass
		12	6	20.23	0.40	20.63	<=23.98	Pass
			13	20.20	0.40	20.60	<=23.98	Pass
			25	0	20.22	0.40	20.62	<=23.98
2312.5	1	0	21.40	0.40	21.80	<=23.98	Pass	
		13	21.49	0.40	21.89	<=23.98	Pass	
		24	21.41	0.40	21.81	<=23.98	Pass	
	12	0	21.52	0.40	21.92	<=23.98	Pass	
		6	21.41	0.40	21.81	<=23.98	Pass	
		13	21.40	0.40	21.80	<=23.98	Pass	
25	0	21.53	0.40	21.93	<=23.98	Pass		
256QAM	2307.5	1	0	21.30	0.40	21.70	<=23.98	Pass
			13	21.26	0.40	21.66	<=23.98	Pass
			24	21.31	0.40	21.71	<=23.98	Pass
		12	0	21.28	0.40	21.68	<=23.98	Pass
			6	21.34	0.40	21.74	<=23.98	Pass
			13	21.26	0.40	21.66	<=23.98	Pass
	25	0	21.29	0.40	21.69	<=23.98	Pass	
	2310	1	0	18.29	0.40	18.69	<=23.98	Pass
			13	18.41	0.40	18.81	<=23.98	Pass
			24	18.36	0.40	18.76	<=23.98	Pass
		12	0	18.17	0.40	18.57	<=23.98	Pass
			6	18.26	0.40	18.66	<=23.98	Pass
			13	18.17	0.40	18.57	<=23.98	Pass
	25	0	18.16	0.40	18.56	<=23.98	Pass	
	2312.5	1	0	18.18	0.40	18.58	<=23.98	Pass
			13	18.22	0.40	18.62	<=23.98	Pass
			24	18.09	0.40	18.49	<=23.98	Pass
		12	0	18.19	0.40	18.59	<=23.98	Pass
6			18.20	0.40	18.60	<=23.98	Pass	
13			18.13	0.40	18.53	<=23.98	Pass	
25	0	18.11	0.40	18.51	<=23.98	Pass		
2312.5	1	0	17.93	0.40	18.33	<=23.98	Pass	
		13	18.03	0.40	18.43	<=23.98	Pass	
		24	17.75	0.40	18.15	<=23.98	Pass	
	12	0	18.16	0.40	18.56	<=23.98	Pass	
		6	18.28	0.40	18.68	<=23.98	Pass	
		13	18.15	0.40	18.55	<=23.98	Pass	
25	0	18.21	0.40	18.61	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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Report No.: SZCR240100038408

Rev.: 01

Page: 4 of 159

1.2 B30_5MHz_EIRP/5MHz

1.2.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2307.5	1	0	23.02	0.40	23.42	<=23.98	Pass		
			13	23.54	0.40	23.94	<=23.98	Pass		
			24	23.18	0.40	23.58	<=23.98	Pass		
		12	0	22.35	0.40	22.75	<=23.98	Pass		
			6	22.35	0.40	22.75	<=23.98	Pass		
			13	22.25	0.40	22.65	<=23.98	Pass		
		25	0	21.73	0.40	22.13	<=23.98	Pass		
		2310	1	0	21.96	0.40	22.36	<=23.98	Pass	
				13	21.90	0.40	22.30	<=23.98	Pass	
	24			21.98	0.40	22.38	<=23.98	Pass		
	12		0	22.02	0.40	22.42	<=23.98	Pass		
			6	21.80	0.40	22.20	<=23.98	Pass		
			13	21.95	0.40	22.35	<=23.98	Pass		
	25		0	21.87	0.40	22.27	<=23.98	Pass		
	2312.5		1	0	22.16	0.40	22.56	<=23.98	Pass	
				13	22.05	0.40	22.45	<=23.98	Pass	
		24		22.00	0.40	22.40	<=23.98	Pass		
		12	0	22.20	0.40	22.60	<=23.98	Pass		
			6	22.15	0.40	22.55	<=23.98	Pass		
			13	22.25	0.40	22.65	<=23.98	Pass		
		25	0	22.07	0.40	22.47	<=23.98	Pass		
		16QAM	2307.5	1	0	22.77	0.40	23.17	<=23.98	Pass
					13	23.03	0.40	23.43	<=23.98	Pass
	24				22.82	0.40	23.22	<=23.98	Pass	
12	0			21.37	0.40	21.77	<=23.98	Pass		
	6			21.47	0.40	21.87	<=23.98	Pass		
	13			21.37	0.40	21.77	<=23.98	Pass		
25	0			20.74	0.40	21.14	<=23.98	Pass		
2310	1			0	22.10	0.40	22.50	<=23.98	Pass	
				13	21.83	0.40	22.23	<=23.98	Pass	
			24	21.76	0.40	22.16	<=23.98	Pass		
	12		0	21.86	0.40	22.26	<=23.98	Pass		
			6	21.94	0.40	22.34	<=23.98	Pass		
			13	22.00	0.40	22.40	<=23.98	Pass		
	25		0	22.01	0.40	22.41	<=23.98	Pass		
	2312.5		1	0	21.87	0.40	22.27	<=23.98	Pass	
				13	22.08	0.40	22.48	<=23.98	Pass	
24				22.17	0.40	22.57	<=23.98	Pass		



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Report No.: SZCR240100038408

Rev.: 01

Page: 5 of 159

64QAM	2307.5	12	0	22.16	0.40	22.56	<=23.98	Pass	
			6	22.11	0.40	22.51	<=23.98	Pass	
			13	22.05	0.40	22.45	<=23.98	Pass	
		25	0	22.07	0.40	22.47	<=23.98	Pass	
			1	0	21.75	0.40	22.15	<=23.98	Pass
			13	21.98	0.40	22.38	<=23.98	Pass	
	2310	12	24	22.01	0.40	22.41	<=23.98	Pass	
			0	20.34	0.40	20.74	<=23.98	Pass	
			6	20.41	0.40	20.81	<=23.98	Pass	
		25	13	20.38	0.40	20.78	<=23.98	Pass	
			0	19.84	0.40	20.24	<=23.98	Pass	
			1	0	21.78	0.40	22.18	<=23.98	Pass
2312.5	12	13	21.90	0.40	22.30	<=23.98	Pass		
		24	22.00	0.40	22.40	<=23.98	Pass		
		0	22.08	0.40	22.48	<=23.98	Pass		
	25	6	21.93	0.40	22.33	<=23.98	Pass		
		13	21.92	0.40	22.32	<=23.98	Pass		
		0	21.94	0.40	22.34	<=23.98	Pass		
256QAM	2307.5	1	0	22.16	0.40	22.56	<=23.98	Pass	
			13	22.23	0.40	22.63	<=23.98	Pass	
			24	21.98	0.40	22.38	<=23.98	Pass	
		12	0	22.06	0.40	22.46	<=23.98	Pass	
			6	22.13	0.40	22.53	<=23.98	Pass	
			13	22.13	0.40	22.53	<=23.98	Pass	
	2310	25	0	22.12	0.40	22.52	<=23.98	Pass	
			1	0	18.67	0.40	19.07	<=23.98	Pass
			13	18.85	0.40	19.25	<=23.98	Pass	
		12	24	18.99	0.40	19.39	<=23.98	Pass	
			0	18.43	0.40	18.83	<=23.98	Pass	
			6	18.44	0.40	18.84	<=23.98	Pass	
2312.5	25	13	18.40	0.40	18.80	<=23.98	Pass		
		0	17.75	0.40	18.15	<=23.98	Pass		
		1	0	18.83	0.40	19.23	<=23.98	Pass	
	12	13	18.91	0.40	19.31	<=23.98	Pass		
		24	18.77	0.40	19.17	<=23.98	Pass		
		0	18.44	0.40	18.84	<=23.98	Pass		
2312.5	25	6	18.35	0.40	18.75	<=23.98	Pass		
		13	18.42	0.40	18.82	<=23.98	Pass		
		0	17.76	0.40	18.16	<=23.98	Pass		
	1	0	18.89	0.40	19.29	<=23.98	Pass		
		13	18.80	0.40	19.20	<=23.98	Pass		
		24	18.66	0.40	19.06	<=23.98	Pass		
12	0	18.41	0.40	18.81	<=23.98	Pass			
	6	18.53	0.40	18.93	<=23.98	Pass			
	13	18.42	0.40	18.82	<=23.98	Pass			
25	0	17.93	0.40	18.33	<=23.98	Pass			

Note 1: EIRP/5MHz=Conducted Power+Antenna Gain



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Report No.: SZCR240100038408
Rev.: 01
Page: 6 of 159

1.3 B30_10MHz_EIRP

1.3.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2310	1	0	22.98	0.40	23.38	<=23.98	Pass		
			25	23.16	0.40	23.56	<=23.98	Pass		
			49	23.08	0.40	23.48	<=23.98	Pass		
		25	0	22.18	0.40	22.58	<=23.98	Pass		
			13	22.16	0.40	22.56	<=23.98	Pass		
			25	22.13	0.40	22.53	<=23.98	Pass		
		50	0	22.10	0.40	22.50	<=23.98	Pass		
		16QAM	2310	1	0	22.79	0.40	23.19	<=23.98	Pass
					25	22.70	0.40	23.10	<=23.98	Pass
49	22.77				0.40	23.17	<=23.98	Pass		
25	0			21.29	0.40	21.69	<=23.98	Pass		
	13			21.25	0.40	21.65	<=23.98	Pass		
	25			21.18	0.40	21.58	<=23.98	Pass		
50	0			21.18	0.40	21.58	<=23.98	Pass		
64QAM	2310			1	0	21.42	0.40	21.82	<=23.98	Pass
					25	21.35	0.40	21.75	<=23.98	Pass
		49	21.35		0.40	21.75	<=23.98	Pass		
		25	0	20.25	0.40	20.65	<=23.98	Pass		
			13	20.21	0.40	20.61	<=23.98	Pass		
			25	20.21	0.40	20.61	<=23.98	Pass		
		50	0	20.19	0.40	20.59	<=23.98	Pass		
		256QAM	2310	1	0	18.68	0.40	19.08	<=23.98	Pass
					25	18.62	0.40	19.02	<=23.98	Pass
49	18.62				0.40	19.02	<=23.98	Pass		
25	0			18.30	0.40	18.70	<=23.98	Pass		
	13			18.23	0.40	18.63	<=23.98	Pass		
	25			18.20	0.40	18.60	<=23.98	Pass		
50	0			18.18	0.40	18.58	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B30_10MHz_EIRP/5MHz

1.4.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	EIRP/5MHz (dBm/5MHz)	Verdict



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038408

Rev.: 01

Page: 7 of 159

	(MHz)	Size	Offset	(dBm/5MHz)	(dBi)	Result	Limit	Pass		
QPSK	2310	1	0	23.47	0.40	23.87	<=23.98	Pass		
			25	23.44	0.40	23.84	<=23.98	Pass		
			49	23.41	0.40	23.81	<=23.98	Pass		
		25	0	21.68	0.40	22.08	<=23.98	Pass		
			13	21.69	0.40	22.09	<=23.98	Pass		
			25	21.70	0.40	22.10	<=23.98	Pass		
		50	0	19.57	0.40	19.97	<=23.98	Pass		
		16QAM	2310	1	0	23.01	0.40	23.41	<=23.98	Pass
					25	22.94	0.40	23.34	<=23.98	Pass
49	22.79				0.40	23.19	<=23.98	Pass		
25	0			20.88	0.40	21.28	<=23.98	Pass		
	13			20.79	0.40	21.19	<=23.98	Pass		
	25			20.76	0.40	21.16	<=23.98	Pass		
50	0			18.54	0.40	18.94	<=23.98	Pass		
64QAM	2310			1	0	21.70	0.40	22.10	<=23.98	Pass
					25	21.90	0.40	22.30	<=23.98	Pass
		49	21.58		0.40	21.98	<=23.98	Pass		
		25	0	19.87	0.40	20.27	<=23.98	Pass		
			13	19.82	0.40	20.22	<=23.98	Pass		
			25	19.77	0.40	20.17	<=23.98	Pass		
		50	0	17.55	0.40	17.95	<=23.98	Pass		
		256QAM	2310	1	0	18.74	0.40	19.14	<=23.98	Pass
					25	18.75	0.40	19.15	<=23.98	Pass
49	18.80				0.40	19.20	<=23.98	Pass		
25	0			17.81	0.40	18.21	<=23.98	Pass		
	13			17.75	0.40	18.15	<=23.98	Pass		
	25			17.79	0.40	18.19	<=23.98	Pass		
50	0			15.58	0.40	15.98	<=23.98	Pass		

Note1: EIRP/5MHz=Conducted Power+Antenna Gain



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Report No.: SZCR240100038408

Rev.: 01

Page: 8 of 159

2. Frequency Stability

2.1 B30_5MHz

2.1.1 Test Result

Band: 30 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2307.5	25	0	20	3.55	-1.114	-0.0005	/	Pass	
					4.0	-1.234	-0.0005	/	Pass	
					4.4	-0.768	-0.0003	/	Pass	
				-30	4.0	-1.537	-0.0007	/	Pass	
					-20	4.0	-1.675	-0.0007	/	Pass
						4.0	-1.006	-0.0004	/	Pass
				0	4.0	-1.811	-0.0008	/	Pass	
					4.0	-0.630	-0.0003	/	Pass	
				30	4.0	-0.228	-0.0001	/	Pass	
				40	4.0	-0.334	-0.0001	/	Pass	
	50	4.0	0.249	0.0001	/	Pass				
	2310	25	0	20	3.55	1.538	0.0007	/	Pass	
					4.0	0.464	0.0002	/	Pass	
					4.4	0.251	0.0001	/	Pass	
				-30	4.0	0.243	0.0001	/	Pass	
					-20	4.0	0.712	0.0003	/	Pass
						4.0	0.615	0.0003	/	Pass
				-10	4.0	0.735	0.0003	/	Pass	
					4.0	0.947	0.0004	/	Pass	
				30	4.0	0.897	0.0004	/	Pass	
				40	4.0	0.490	0.0002	/	Pass	
	50	4.0	1.212	0.0005	/	Pass				
	2312.5	25	0	20	3.55	0.066	0.0000	/	Pass	
					4.0	-1.586	-0.0007	/	Pass	
					4.4	-1.281	-0.0006	/	Pass	
				-30	4.0	-0.219	-0.0001	/	Pass	
					-20	4.0	-1.834	-0.0008	/	Pass
						4.0	-1.058	-0.0005	/	Pass
				-10	4.0	-0.670	-0.0003	/	Pass	
					4.0	-0.542	-0.0002	/	Pass	
30				4.0	-1.253	-0.0005	/	Pass		
40				4.0	-2.826	-0.0012	/	Pass		
50	4.0	-0.018	0.0000	/	Pass					
16QAM	2307.5	25	0	20	3.55	-0.970	-0.0004	/	Pass	
					4.0	-0.947	-0.0004	/	Pass	
					4.4	-1.623	-0.0007	/	Pass	
				-30	4.0	-0.787	-0.0003	/	Pass	



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Shenzhen Branch

Report No.: SZCR240100038408

Rev.: 01

Page: 9 of 159

64QAM	2310	25	0	-20	4.0	-2.884	-0.0012	/	Pass
				-10	4.0	-1.362	-0.0006	/	Pass
				0	4.0	-0.149	-0.0001	/	Pass
				10	4.0	-0.519	-0.0002	/	Pass
				30	4.0	-1.100	-0.0005	/	Pass
				40	4.0	-1.052	-0.0005	/	Pass
				50	4.0	-0.286	-0.0001	/	Pass
	2312.5	25	0	20	3.55	0.956	0.0004	/	Pass
					4.0	0.030	0.0000	/	Pass
					4.4	2.093	0.0009	/	Pass
				-30	4.0	0.570	0.0002	/	Pass
				-20	4.0	0.670	0.0003	/	Pass
				-10	4.0	0.264	0.0001	/	Pass
				0	4.0	1.583	0.0007	/	Pass
				10	4.0	-0.183	-0.0001	/	Pass
				30	4.0	0.682	0.0003	/	Pass
				40	4.0	-0.449	-0.0002	/	Pass
				50	4.0	0.828	0.0004	/	Pass
	2307.5	25	0	20	3.55	-1.124	-0.0005	/	Pass
					4.0	0.629	0.0003	/	Pass
					4.4	-0.473	-0.0002	/	Pass
				-30	4.0	-0.405	-0.0002	/	Pass
				-20	4.0	-1.865	-0.0008	/	Pass
				-10	4.0	0.085	0.0000	/	Pass
				0	4.0	-0.601	-0.0003	/	Pass
				10	4.0	-1.367	-0.0006	/	Pass
				30	4.0	-1.135	-0.0005	/	Pass
				40	4.0	-0.941	-0.0004	/	Pass
50				4.0	-0.443	-0.0002	/	Pass	
2310	25	0	20	3.55	-1.511	-0.0007	/	Pass	
				4.0	-2.870	-0.0012	/	Pass	
				4.4	-1.906	-0.0008	/	Pass	
			-30	4.0	-1.182	-0.0005	/	Pass	
			-20	4.0	-1.593	-0.0007	/	Pass	
			-10	4.0	-0.515	-0.0002	/	Pass	
			0	4.0	-0.725	-0.0003	/	Pass	
			10	4.0	-0.119	-0.0001	/	Pass	
			30	4.0	-1.672	-0.0007	/	Pass	
			40	4.0	-1.197	-0.0005	/	Pass	
			50	4.0	-2.502	-0.0011	/	Pass	
2310	25	0	20	3.55	-1.240	-0.0005	/	Pass	
				4.0	-0.632	-0.0003	/	Pass	
				4.4	0.736	0.0003	/	Pass	
			-30	4.0	-0.574	-0.0002	/	Pass	
			-20	4.0	0.389	0.0002	/	Pass	
			-10	4.0	-1.542	-0.0007	/	Pass	
			0	4.0	-0.163	-0.0001	/	Pass	
10	4.0	-0.717	-0.0003	/	Pass				



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Shenzhen Branch

Report No.: SZCR240100038408

Rev.: 01

Page: 10 of 159

				30	4.0	-0.297	-0.0001	/	Pass				
				40	4.0	-0.271	-0.0001	/	Pass				
				50	4.0	-0.263	-0.0001	/	Pass				
				2312.5	25	0	20	3.55	0.656	0.0003	/	Pass	
							4.0	0.093	0.0000	/	Pass		
							4.4	0.385	0.0002	/	Pass		
								-30	4.0	1.470	0.0006	/	Pass
								-20	4.0	0.321	0.0001	/	Pass
								-10	4.0	1.010	0.0004	/	Pass
								0	4.0	0.789	0.0003	/	Pass
								10	4.0	0.678	0.0003	/	Pass
								30	4.0	-0.952	-0.0004	/	Pass
				40	4.0	1.113	0.0005	/	Pass				
				50	4.0	1.188	0.0005	/	Pass				
256QAM	2307.5	25	0	20	3.55	-2.530	-0.0011	/	Pass				
					4.0	-2.603	-0.0011	/	Pass				
					4.4	-2.142	-0.0009	/	Pass				
								-30	4.0	-2.217	-0.0010	/	Pass
								-20	4.0	-1.222	-0.0005	/	Pass
								-10	4.0	-1.158	-0.0005	/	Pass
								0	4.0	-2.127	-0.0009	/	Pass
								10	4.0	-2.687	-0.0012	/	Pass
								30	4.0	-0.214	-0.0001	/	Pass
								40	4.0	-2.673	-0.0012	/	Pass
								50	4.0	-1.528	-0.0007	/	Pass
				2310	25	0	20	3.55	-0.351	-0.0002	/	Pass	
	4.0	-1.144	-0.0005					/	Pass				
	4.4	0.350	0.0002					/	Pass				
								-30	4.0	-0.519	-0.0002	/	Pass
								-20	4.0	-0.217	-0.0001	/	Pass
								-10	4.0	0.695	0.0003	/	Pass
								0	4.0	0.381	0.0002	/	Pass
								10	4.0	0.154	0.0001	/	Pass
								30	4.0	0.294	0.0001	/	Pass
								40	4.0	-0.372	-0.0002	/	Pass
								50	4.0	-1.211	-0.0005	/	Pass
	2312.5	25	0				20	3.55	-0.235	-0.0001	/	Pass	
				4.0	0.841	0.0004		/	Pass				
4.4				-0.158	-0.0001	/		Pass					
							-30	4.0	1.493	0.0006	/	Pass	
							-20	4.0	0.626	0.0003	/	Pass	
							-10	4.0	0.674	0.0003	/	Pass	
							0	4.0	0.725	0.0003	/	Pass	
							10	4.0	1.478	0.0006	/	Pass	
							30	4.0	0.758	0.0003	/	Pass	
							40	4.0	0.732	0.0003	/	Pass	
							50	4.0	0.717	0.0003	/	Pass	



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Report No.: SZCR240100038408

Rev.: 01

Page: 11 of 159

2.2 B30_10MHz

2.2.1 Test Result

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	3.55	-0.663	-0.0003	/	Pass
					4.0	0.930	0.0004	/	Pass
					4.4	-0.313	-0.0001	/	Pass
				-30	4.0	0.656	0.0003	/	Pass
					4.0	-1.339	-0.0006	/	Pass
				-10	4.0	1.138	0.0005	/	Pass
					4.0	-0.479	-0.0002	/	Pass
				10	4.0	-0.712	-0.0003	/	Pass
				30	4.0	0.070	0.0000	/	Pass
				40	4.0	-0.449	-0.0002	/	Pass
50	4.0	0.436	0.0002	/	Pass				
16QAM	2310	50	0	20	3.55	-0.364	-0.0002	/	Pass
					4.0	-0.902	-0.0004	/	Pass
					4.4	1.140	0.0005	/	Pass
				-30	4.0	-1.645	-0.0007	/	Pass
					4.0	-0.384	-0.0002	/	Pass
				-10	4.0	-1.160	-0.0005	/	Pass
					4.0	-0.794	-0.0003	/	Pass
				10	4.0	-1.159	-0.0005	/	Pass
				30	4.0	0.434	0.0002	/	Pass
				40	4.0	-0.529	-0.0002	/	Pass
50	4.0	-1.510	-0.0007	/	Pass				
64QAM	2310	50	0	20	3.55	-1.500	-0.0006	/	Pass
					4.0	-0.410	-0.0002	/	Pass
					4.4	-0.029	0.0000	/	Pass
				-30	4.0	0.853	0.0004	/	Pass
					4.0	-1.004	-0.0004	/	Pass
				-10	4.0	-1.047	-0.0005	/	Pass
					4.0	-0.539	-0.0002	/	Pass
				10	4.0	-1.394	-0.0006	/	Pass
				30	4.0	-0.010	0.0000	/	Pass
				40	4.0	-0.864	-0.0004	/	Pass
50	4.0	0.219	0.0001	/	Pass				
256QAM	2310	50	0	20	3.55	-0.920	-0.0004	/	Pass
					4.0	-0.100	0.0000	/	Pass
					4.4	-0.563	-0.0002	/	Pass
				-30	4.0	0.733	0.0003	/	Pass
					4.0	-1.366	-0.0006	/	Pass
				-10	4.0	-0.970	-0.0004	/	Pass
0	4.0	-0.785	-0.0003	/	Pass				



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Report No.: SZCR240100038408

Rev.: 01

Page: 12 of 159

				10	4.0	-1.163	-0.0005	/	Pass
				30	4.0	-0.896	-0.0004	/	Pass
				40	4.0	0.568	0.0002	/	Pass
				50	4.0	-0.638	-0.0003	/	Pass



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Report No.: SZCR240100038408

Rev.: 01

Page: 13 of 159

3. 99% & 26dB Bandwidth

3.1 Band30_OBW

3.1.1 Test Result

Band: 30 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.557	/	Pass
		2310	25	0	4.552	/	Pass
		2312.5	25	0	4.560	/	Pass
	16QAM	2307.5	25	0	4.588	/	Pass
		2310	25	0	4.563	/	Pass
		2312.5	25	0	4.558	/	Pass
	64QAM	2307.5	25	0	4.554	/	Pass
		2310	25	0	4.552	/	Pass
		2312.5	25	0	4.551	/	Pass
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		2310	25	0	4.574	/	Pass
		2312.5	25	0	4.562	/	Pass
10	QPSK	2310	50	0	9.118	/	Pass
	16QAM	2310	50	0	9.110	/	Pass
	64QAM	2310	50	0	9.050	/	Pass
	256QAM	2310	50	0	9.071	/	Pass



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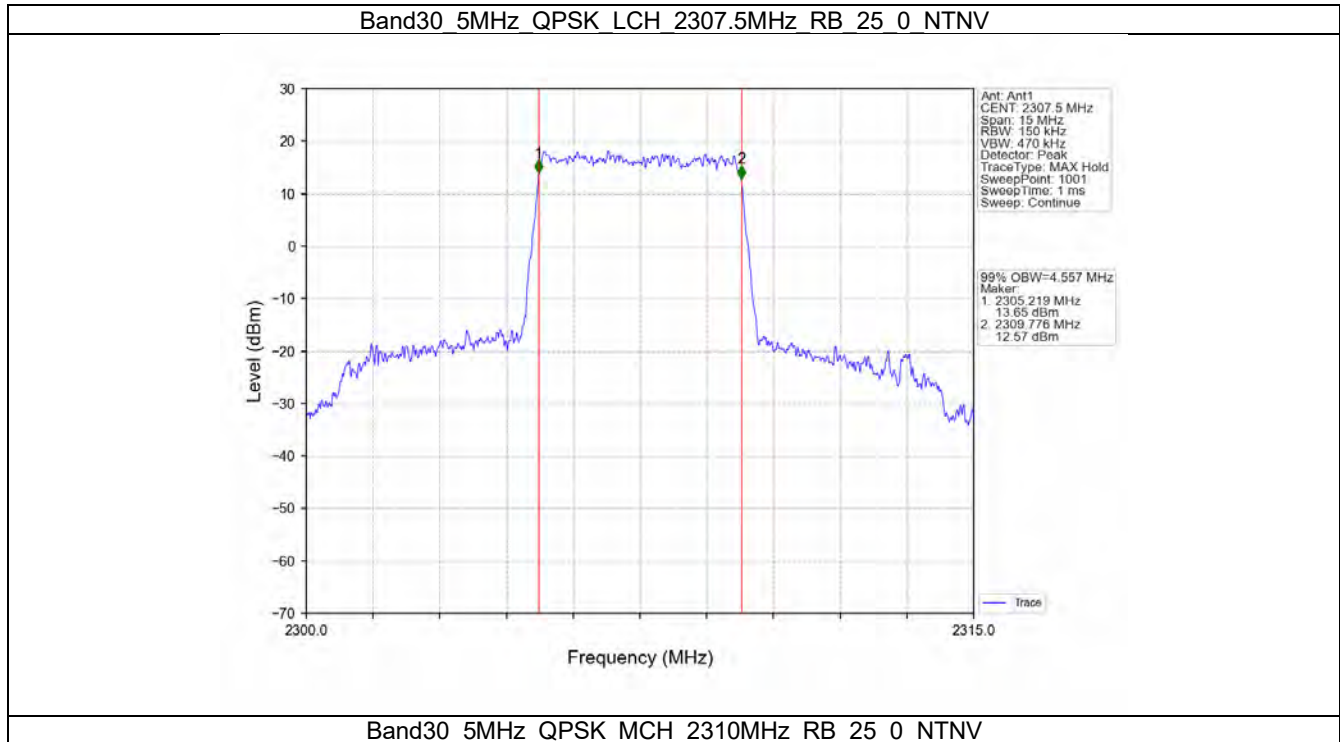
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Report No.: SZCR240100038408

Rev.: 01

Page: 14 of 159

3.1.2 Test Graph



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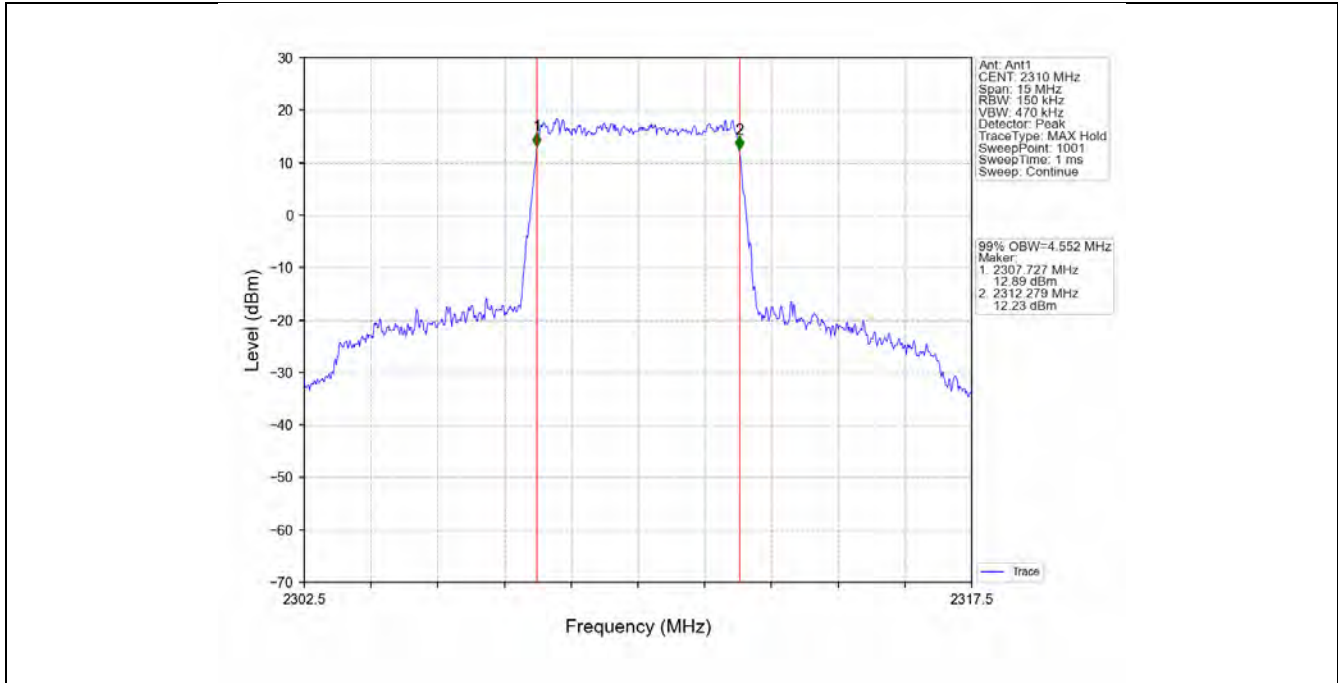


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Report No.: SZCR240100038408

Rev.: 01

Page: 15 of 159



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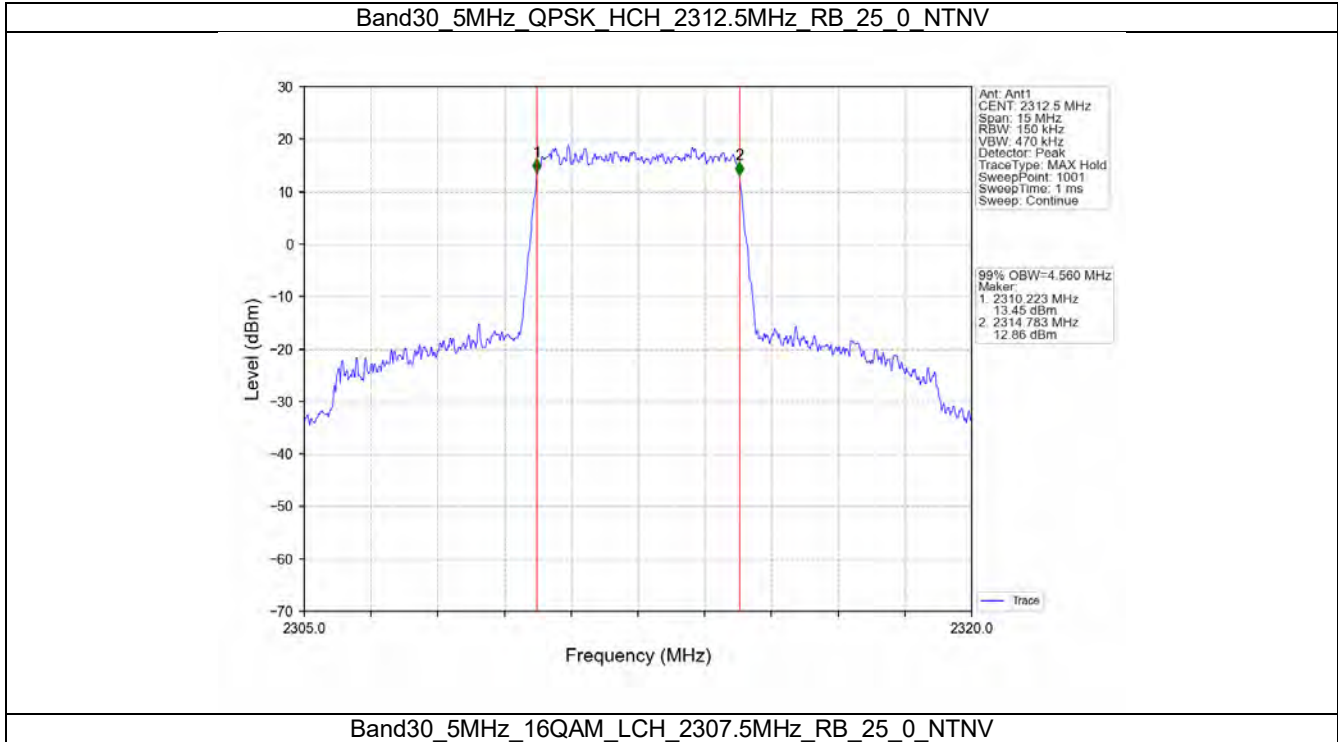


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Report No.: SZCR240100038408

Rev.: 01

Page: 16 of 159



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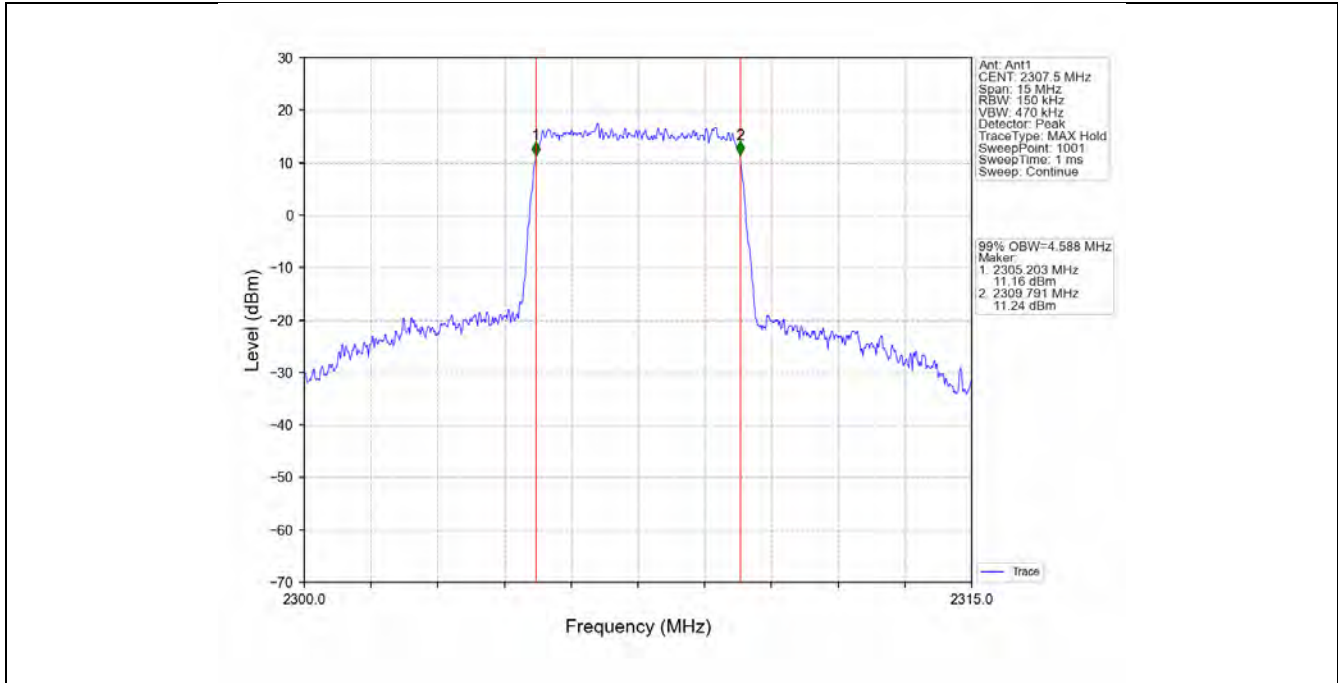


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Report No.: SZCR240100038408

Rev.: 01

Page: 17 of 159



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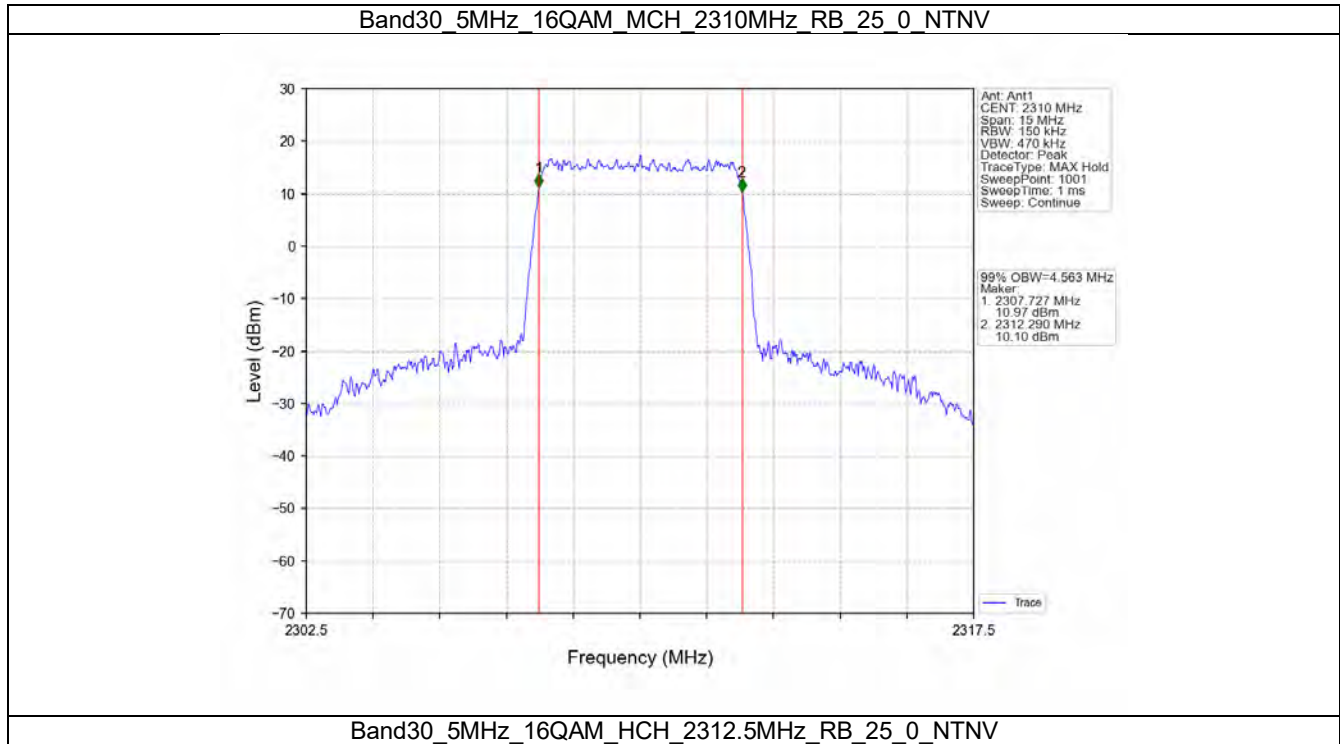


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Report No.: SZCR240100038408

Rev.: 01

Page: 18 of 159



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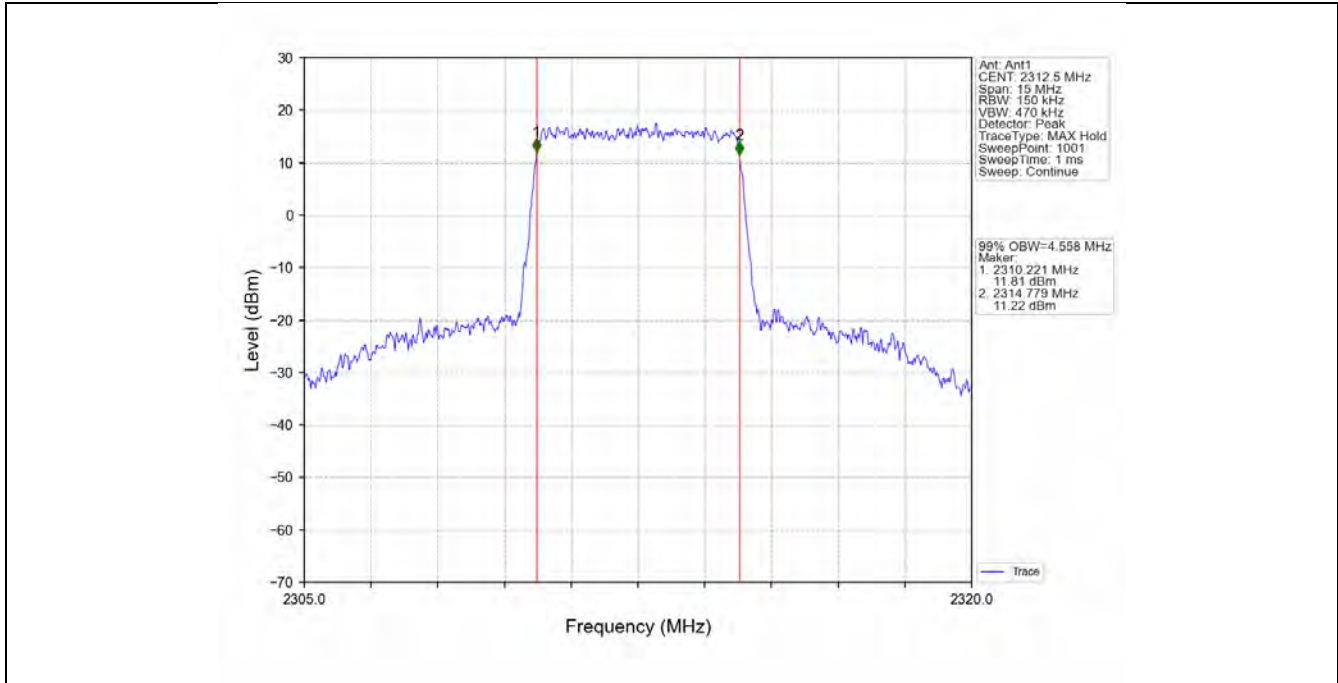


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Report No.: SZCR240100038408

Rev.: 01

Page: 19 of 159



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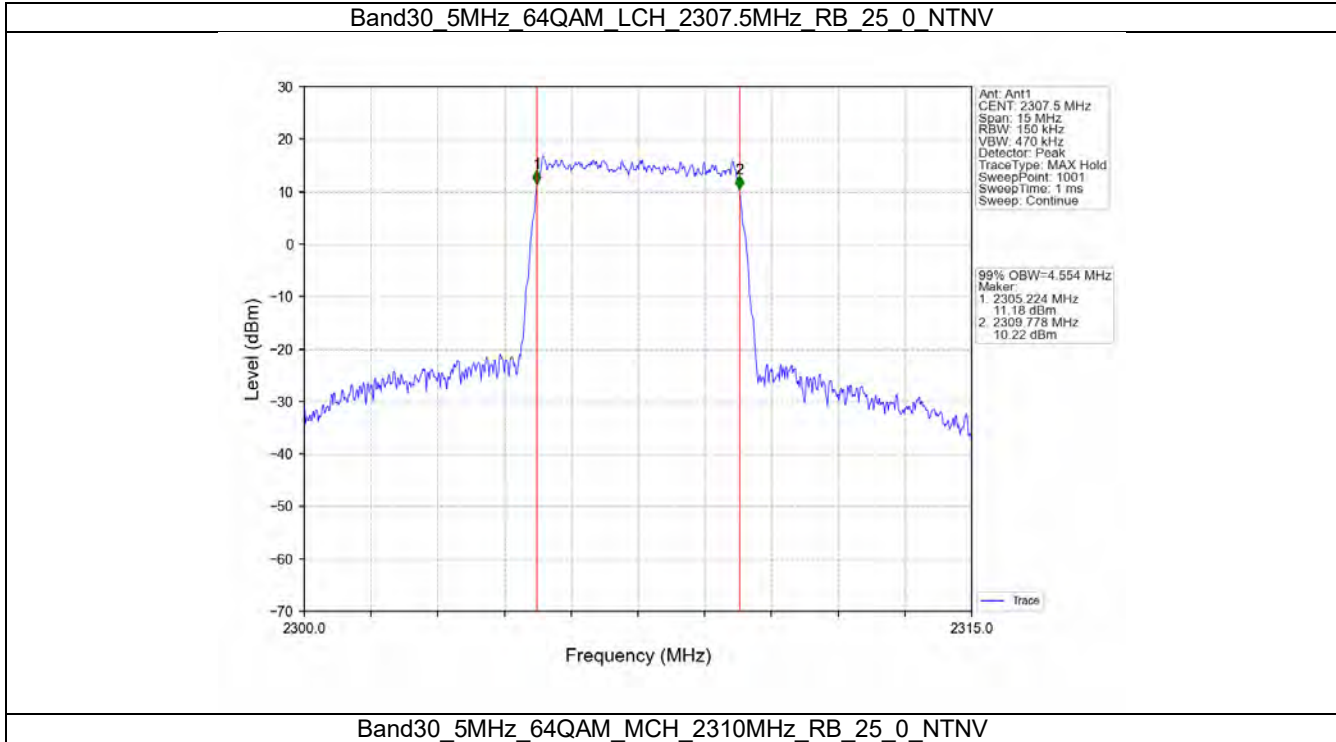


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Report No.: SZCR240100038408

Rev.: 01

Page: 20 of 159



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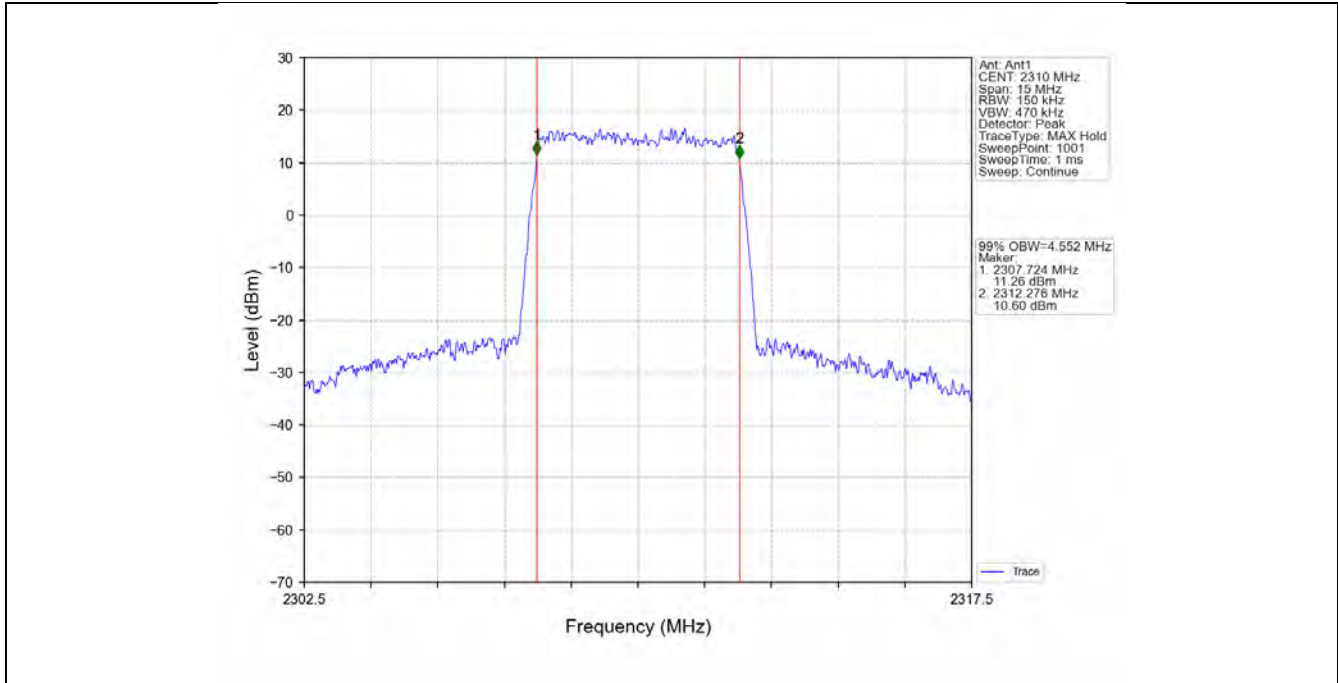


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Report No.: SZCR240100038408

Rev.: 01

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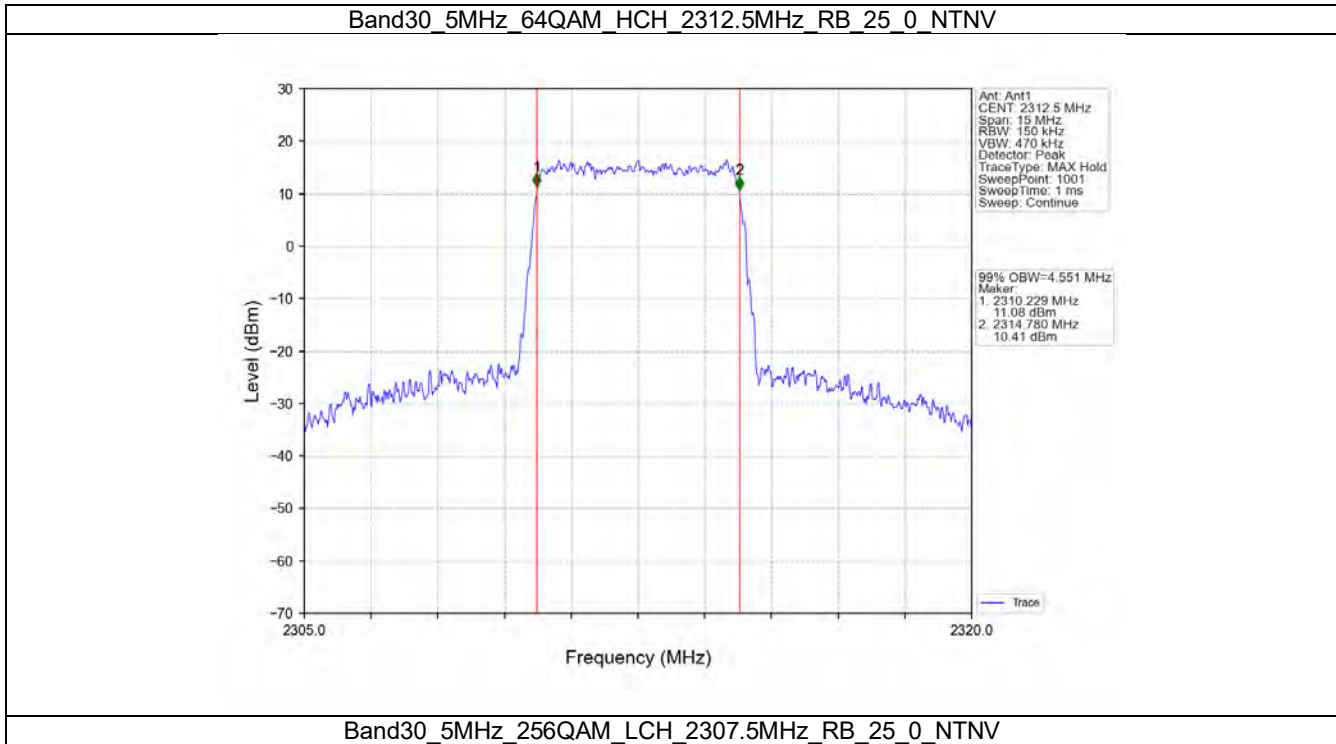


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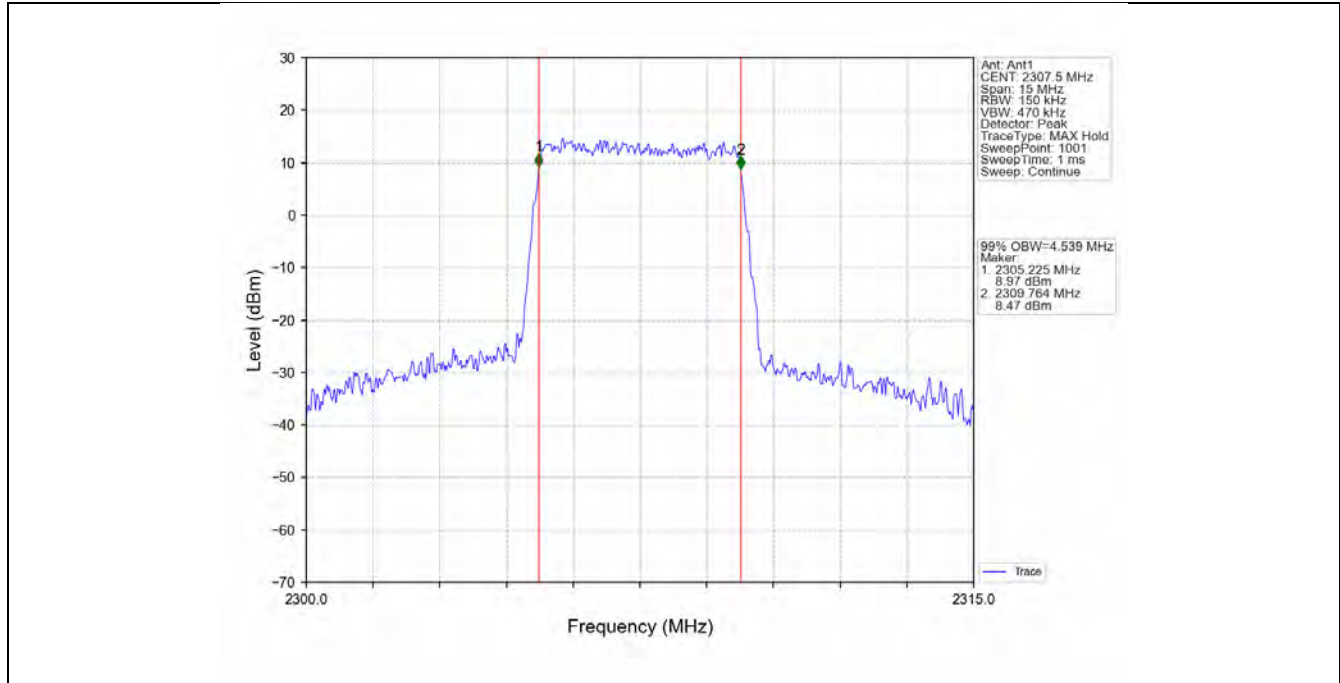


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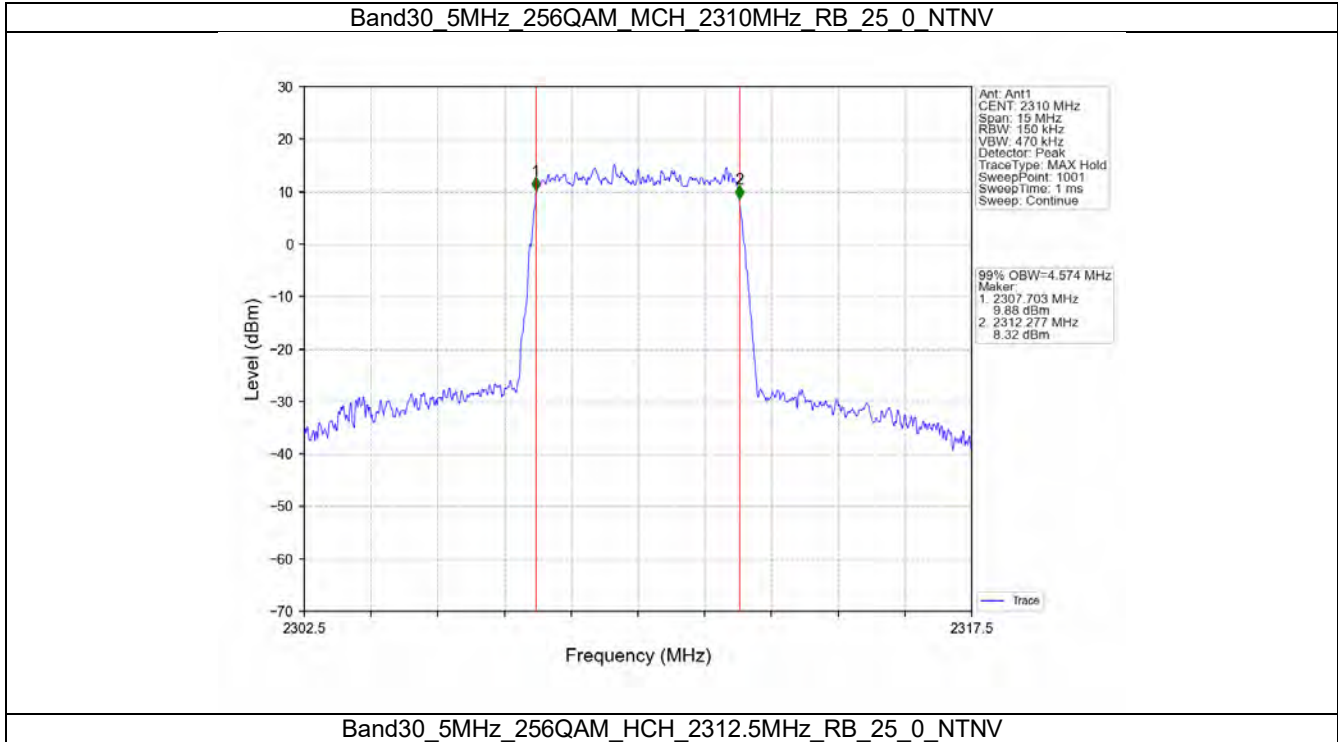


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Report No.: SZCR240100038408

Rev.: 01

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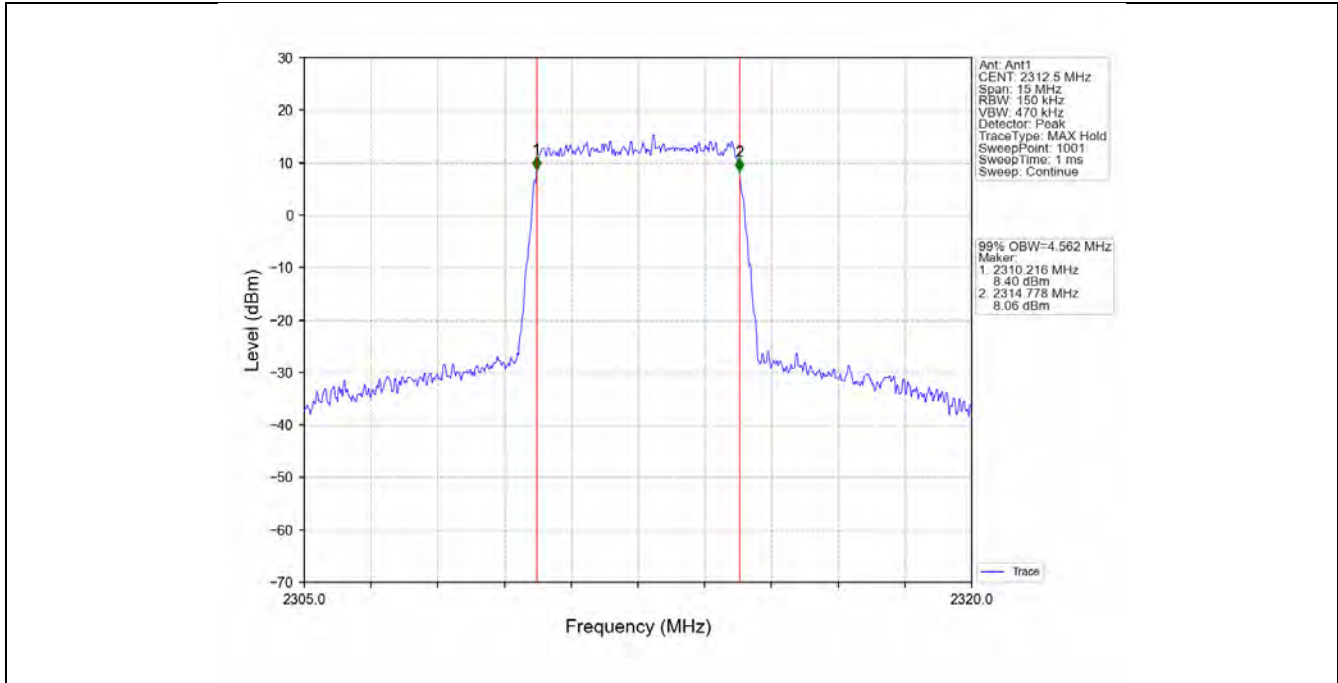


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Report No.: SZCR240100038408

Rev.: 01

Page: 25 of 159



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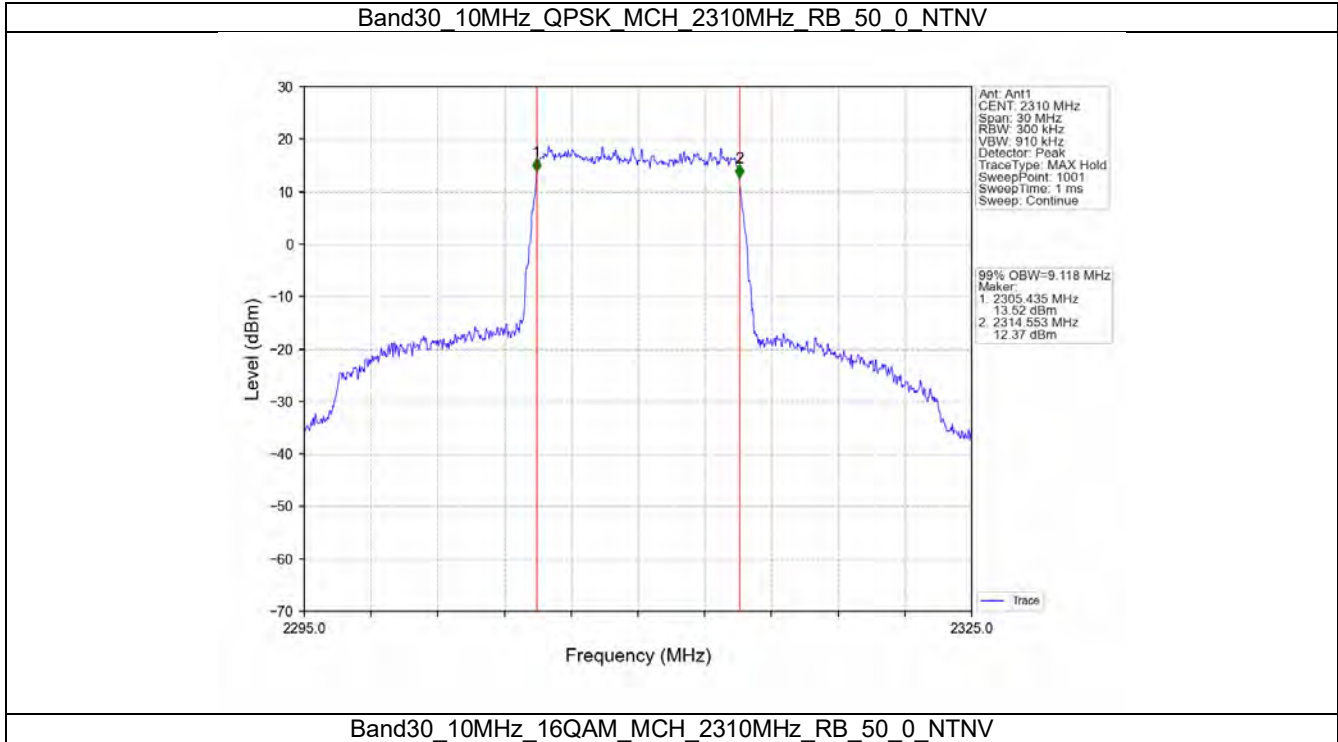


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Report No.: SZCR240100038408

Rev.: 01

Page: 26 of 159



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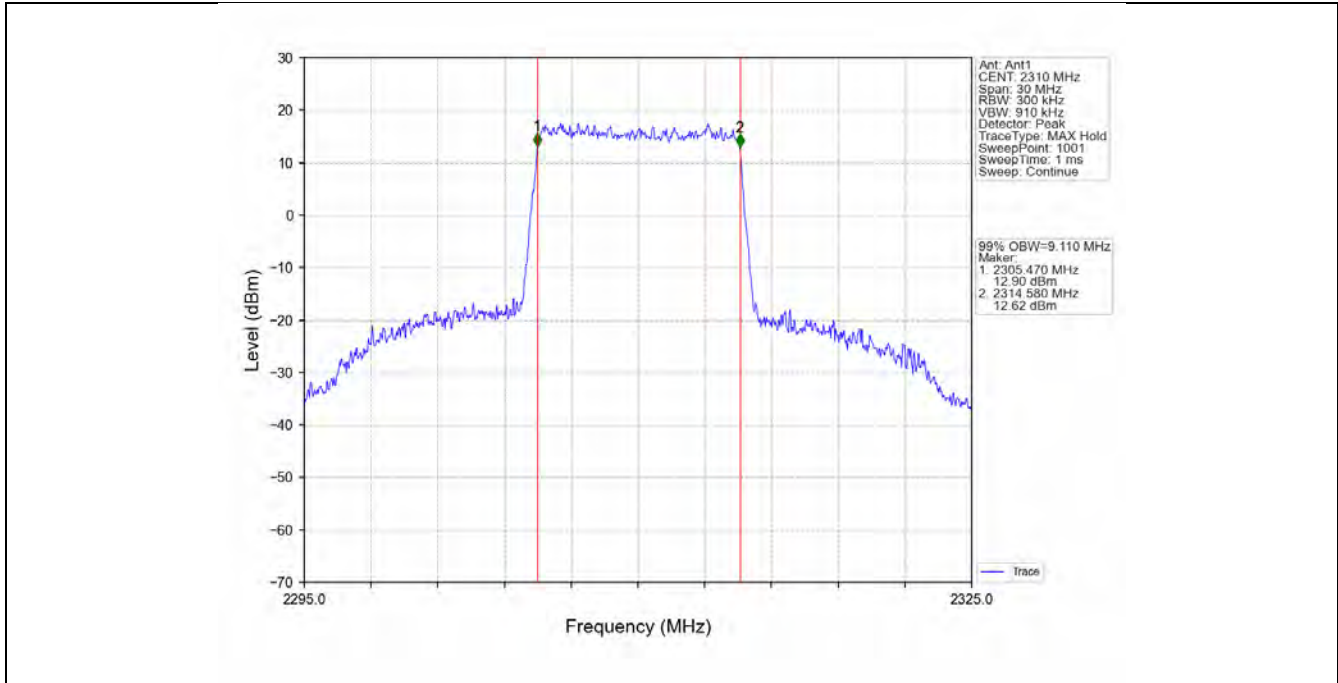


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Report No.: SZCR240100038408

Rev.: 01

Page: 27 of 159



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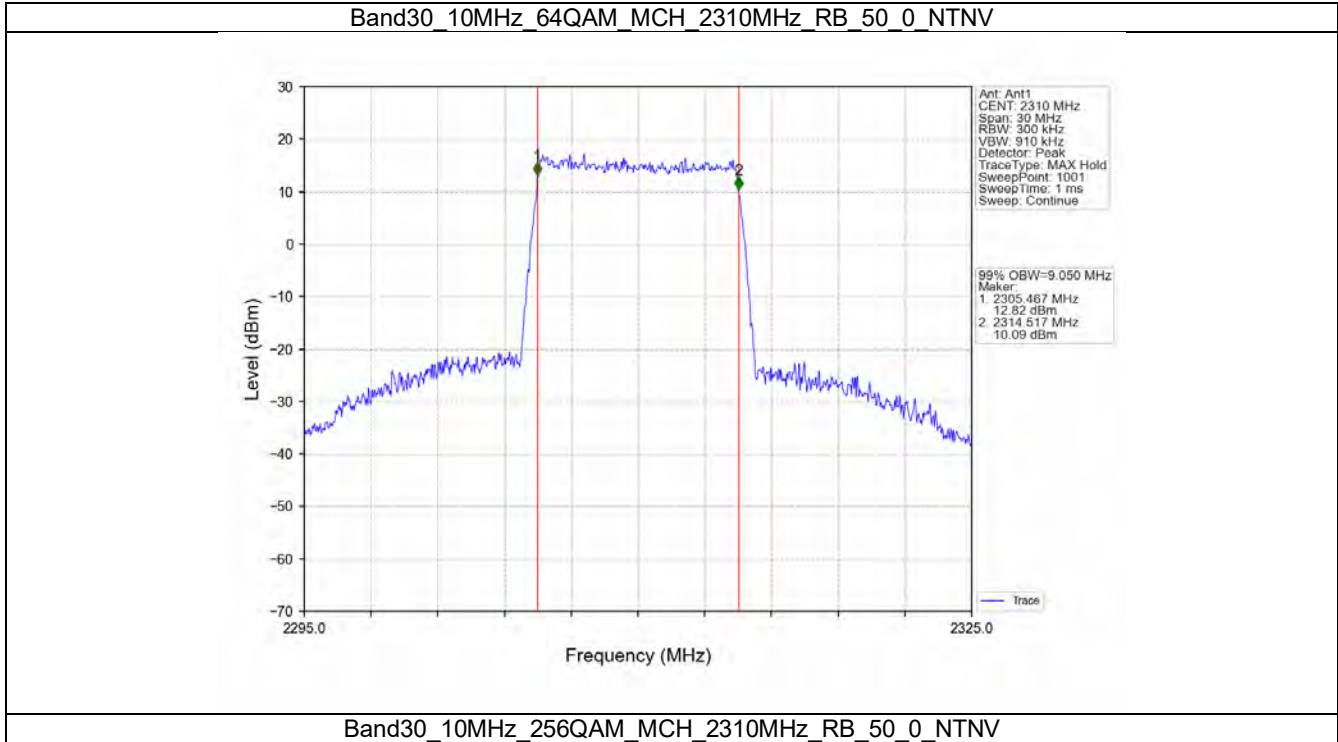


**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: SZCR240100038408

Rev.: 01

Page: 28 of 159



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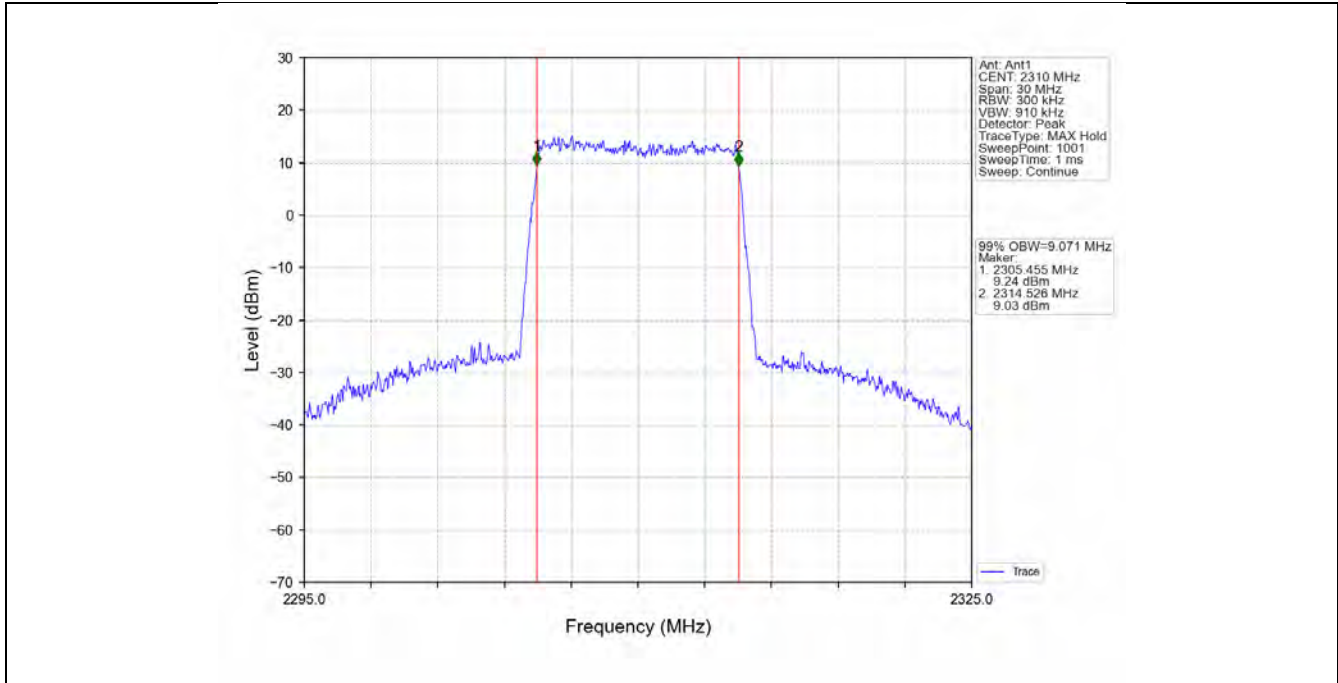


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Report No.: SZCR240100038408

Rev.: 01

Page: 29 of 159



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038408

Rev.: 01

Page: 30 of 159

3.2 Band30_XDB

3.2.1 Test Result

Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.049	/	Pass
		2310	25	0	5.083	/	Pass
		2312.5	25	0	5.056	/	Pass
	16QAM	2307.5	25	0	5.047	/	Pass
		2310	25	0	5.059	/	Pass
		2312.5	25	0	5.030	/	Pass
	64QAM	2307.5	25	0	5.023	/	Pass
		2310	25	0	5.053	/	Pass
		2312.5	25	0	5.053	/	Pass
256QAM	2307.5	25	0	5.009	/	Pass	
	2310	25	0	5.011	/	Pass	
	2312.5	25	0	5.061	/	Pass	
10	QPSK	2310	50	0	10.110	/	Pass
	16QAM	2310	50	0	9.984	/	Pass
	64QAM	2310	50	0	10.009	/	Pass
	256QAM	2310	50	0	10.004	/	Pass



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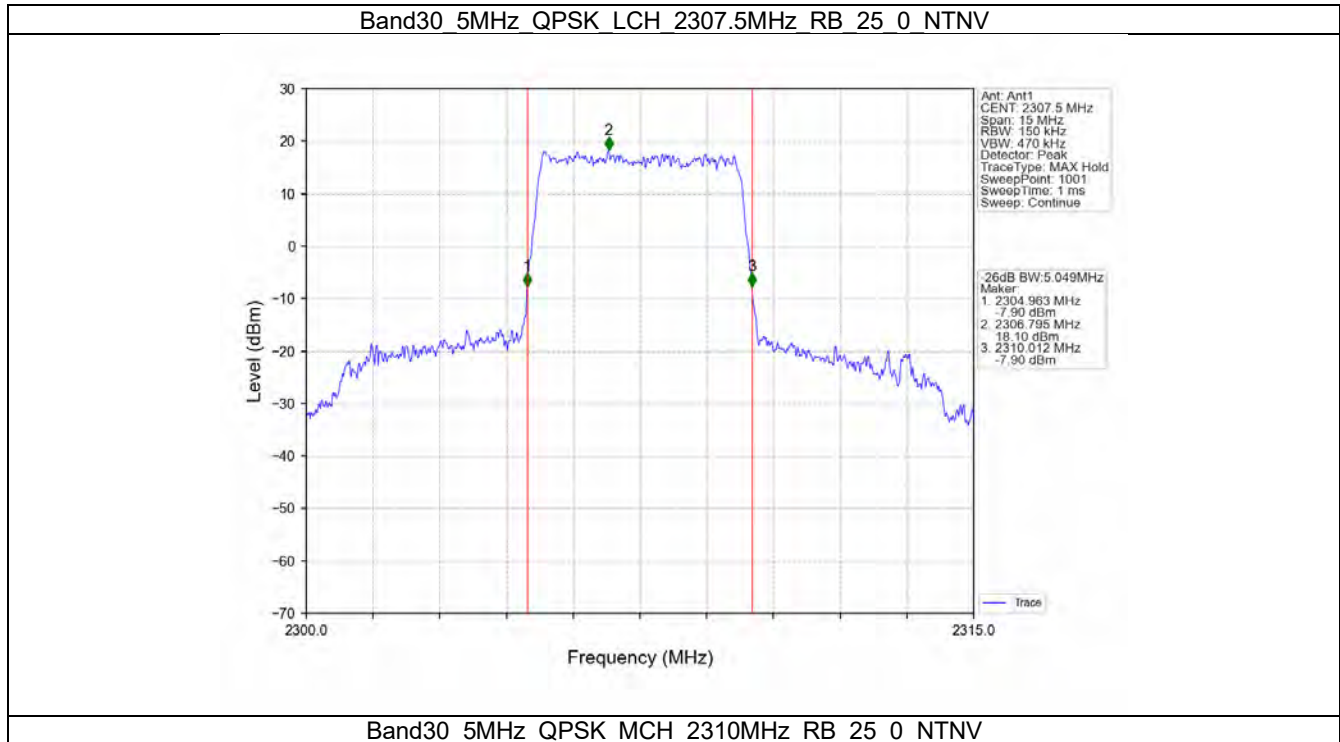
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Report No.: SZCR240100038408

Rev.: 01

Page: 31 of 159

3.2.2 Test Graph



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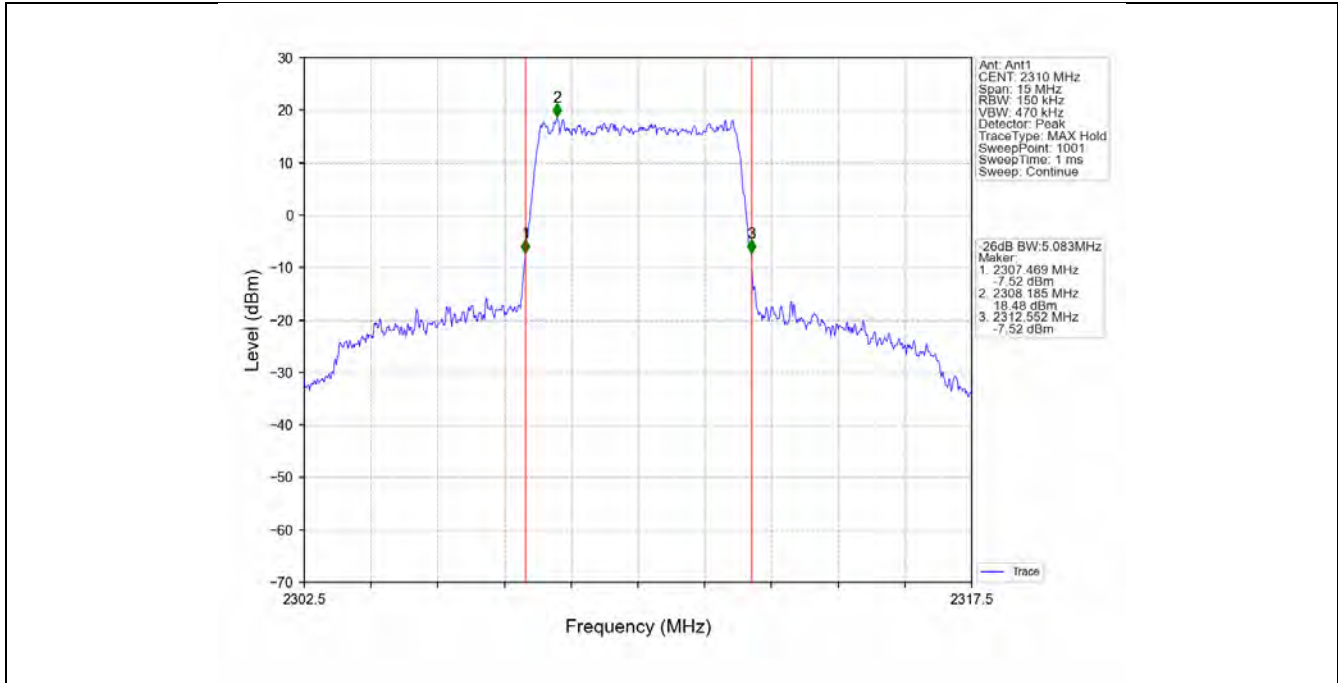


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Report No.: SZCR240100038408

Rev.: 01

Page: 32 of 159



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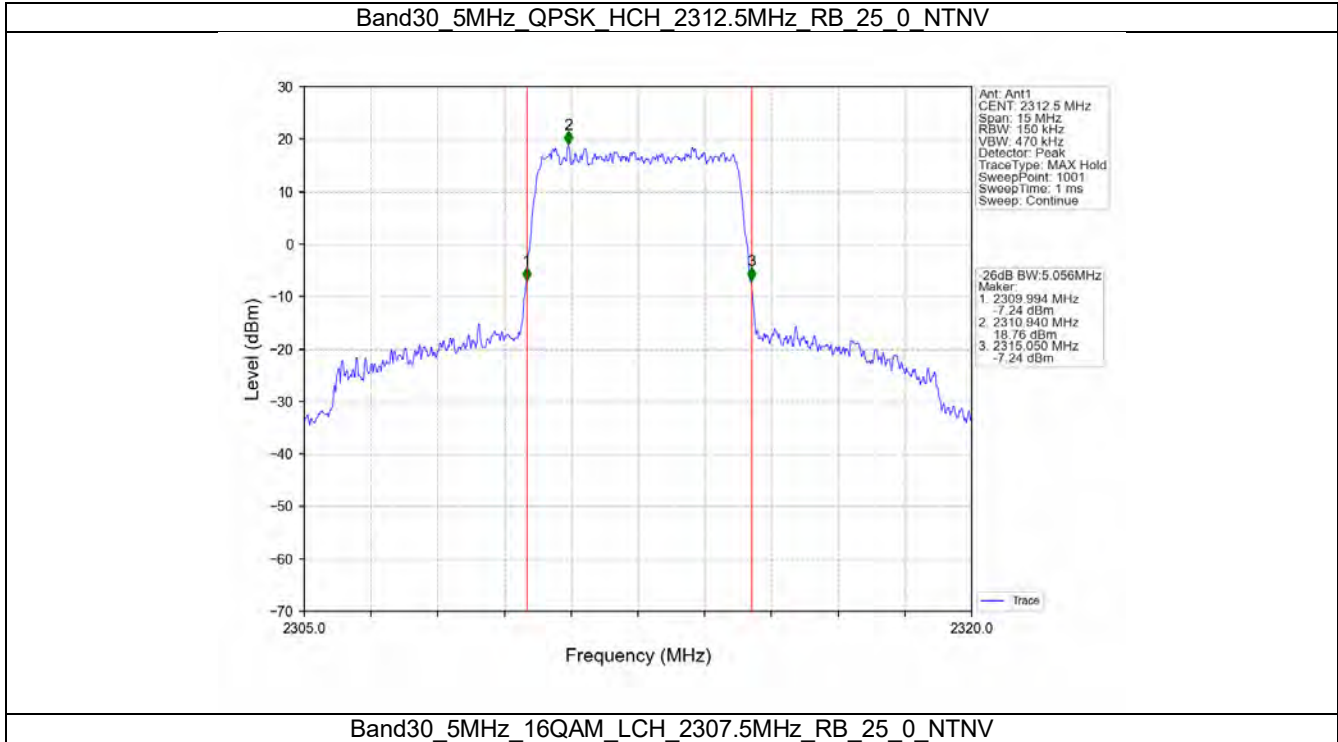


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Report No.: SZCR240100038408

Rev.: 01

Page: 33 of 159



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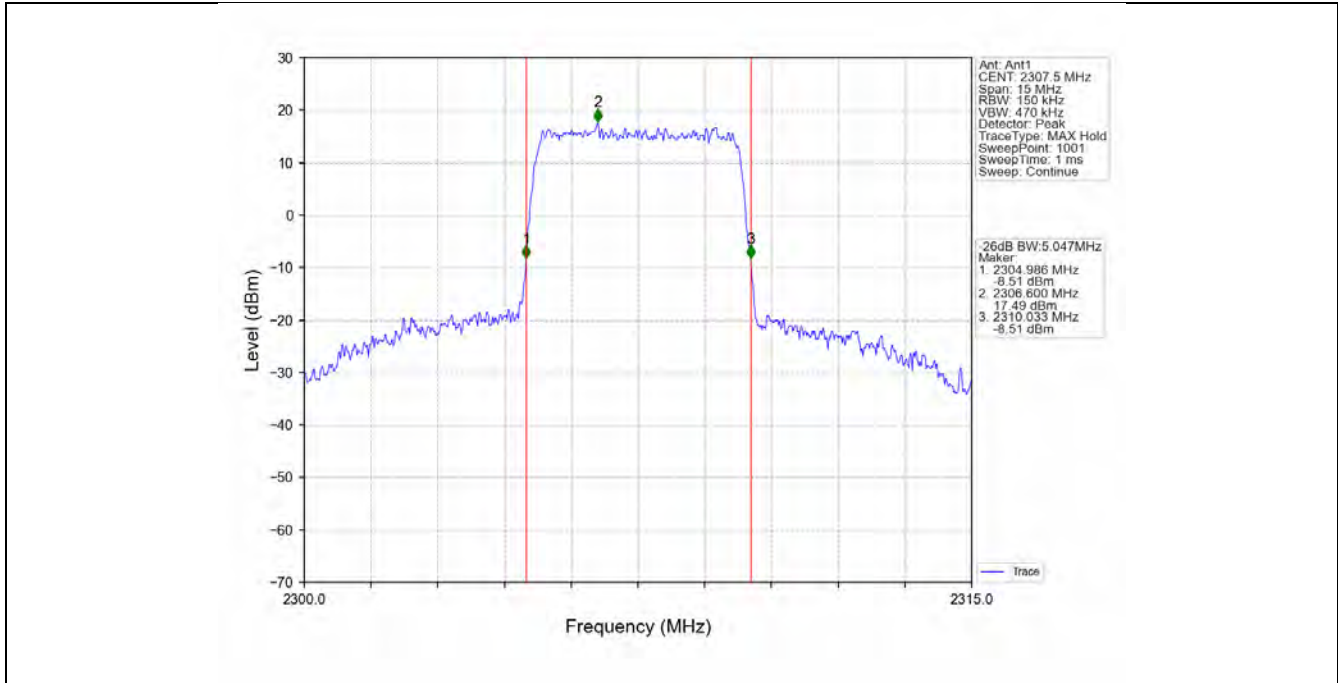


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Report No.: SZCR240100038408

Rev.: 01

Page: 34 of 159



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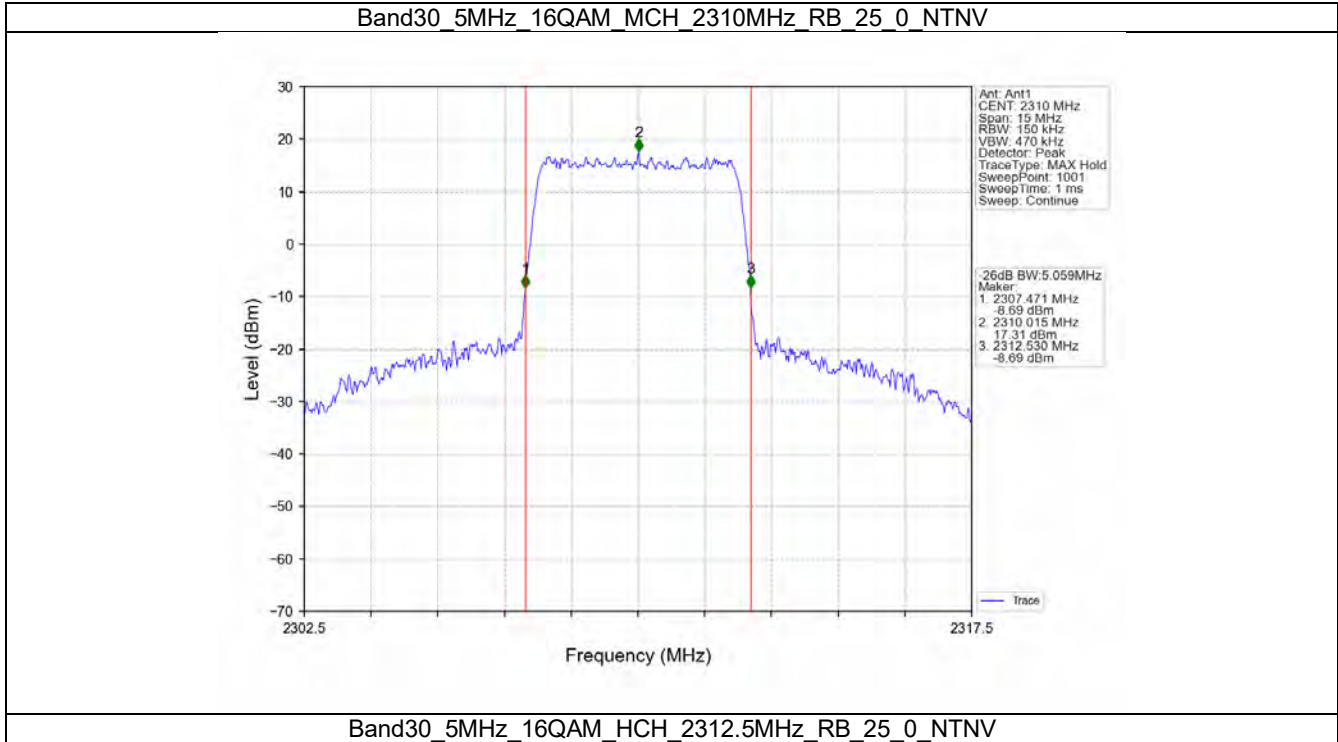


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Report No.: SZCR240100038408

Rev.: 01

Page: 35 of 159



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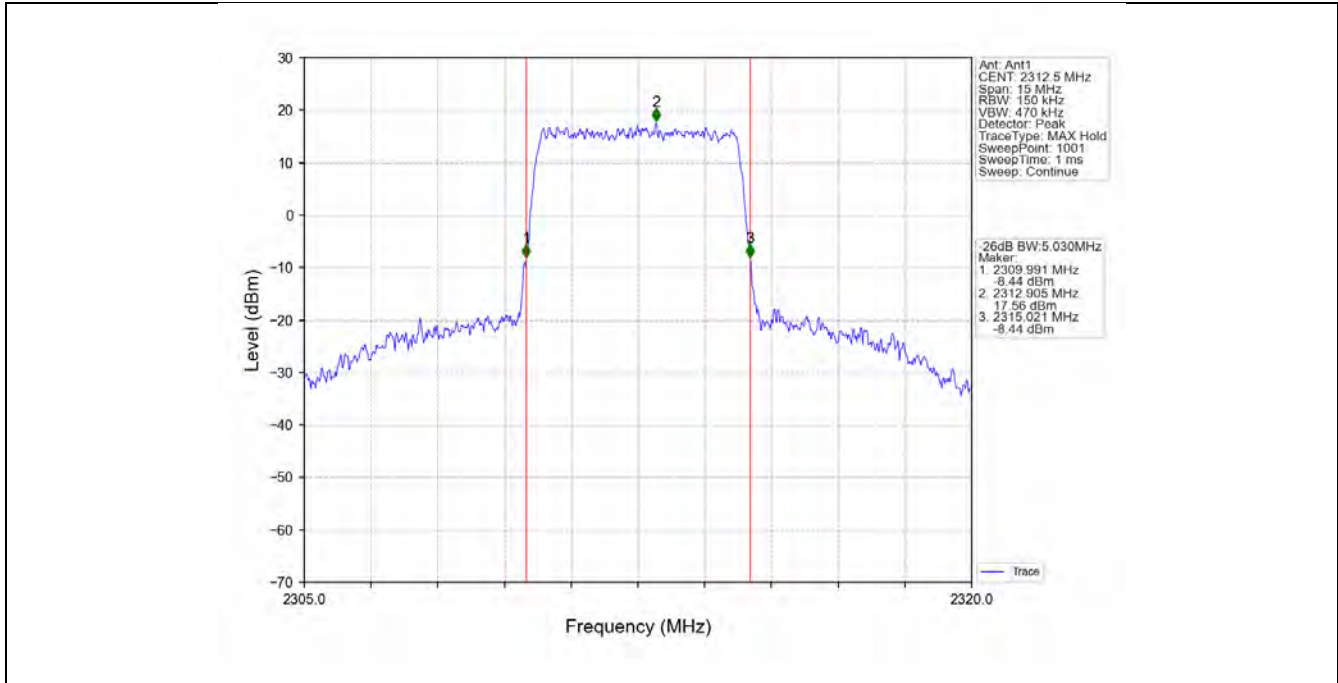


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Rev.: 01

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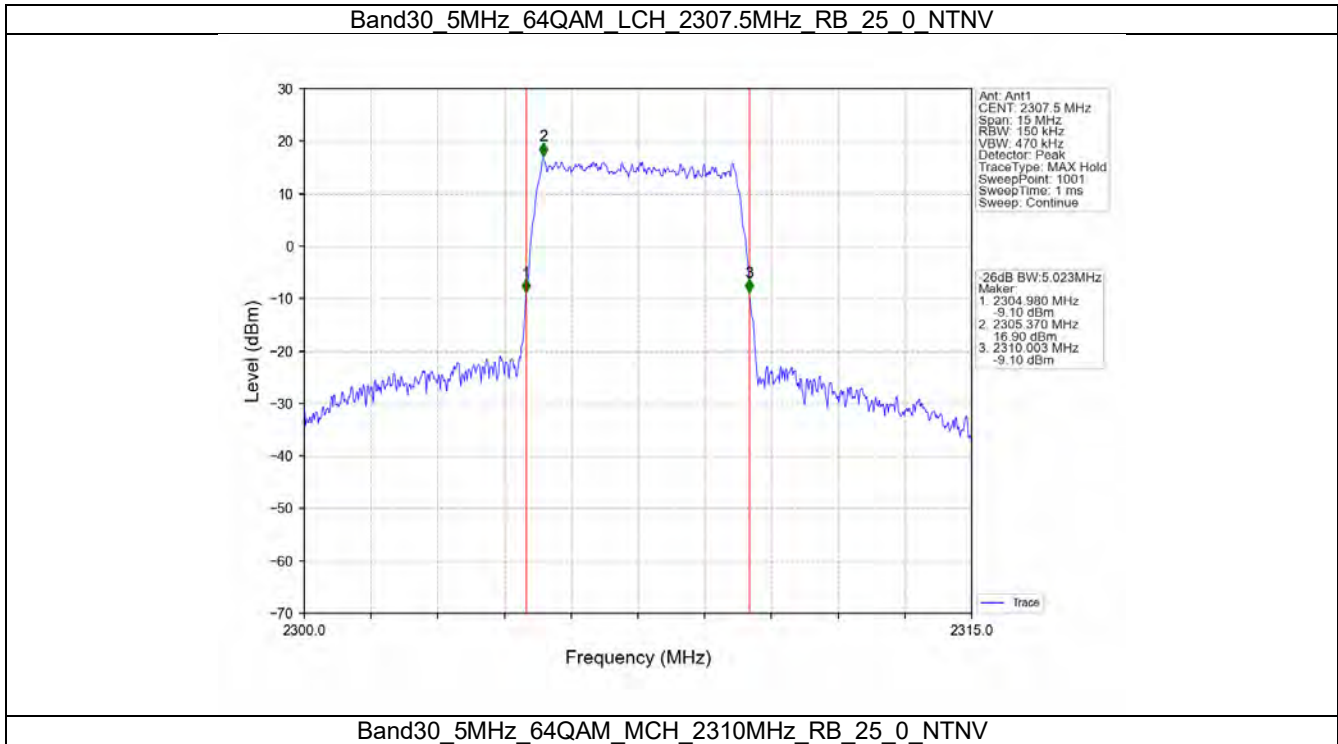


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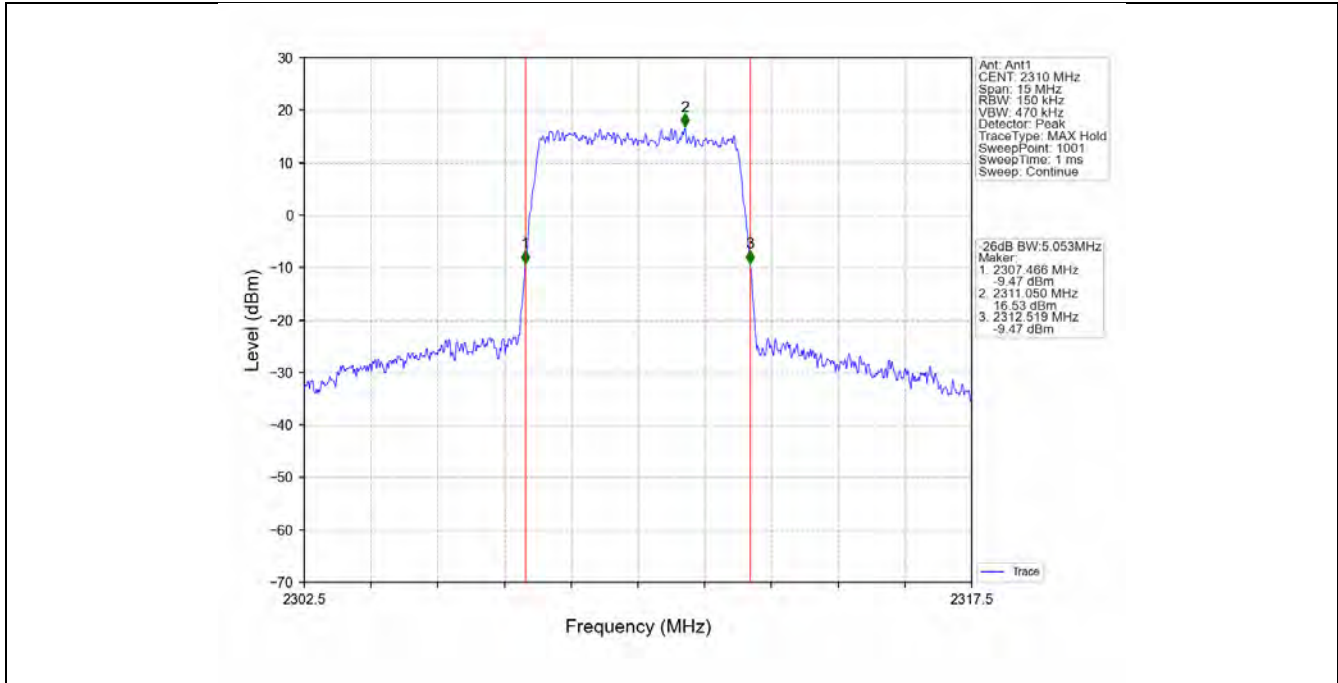


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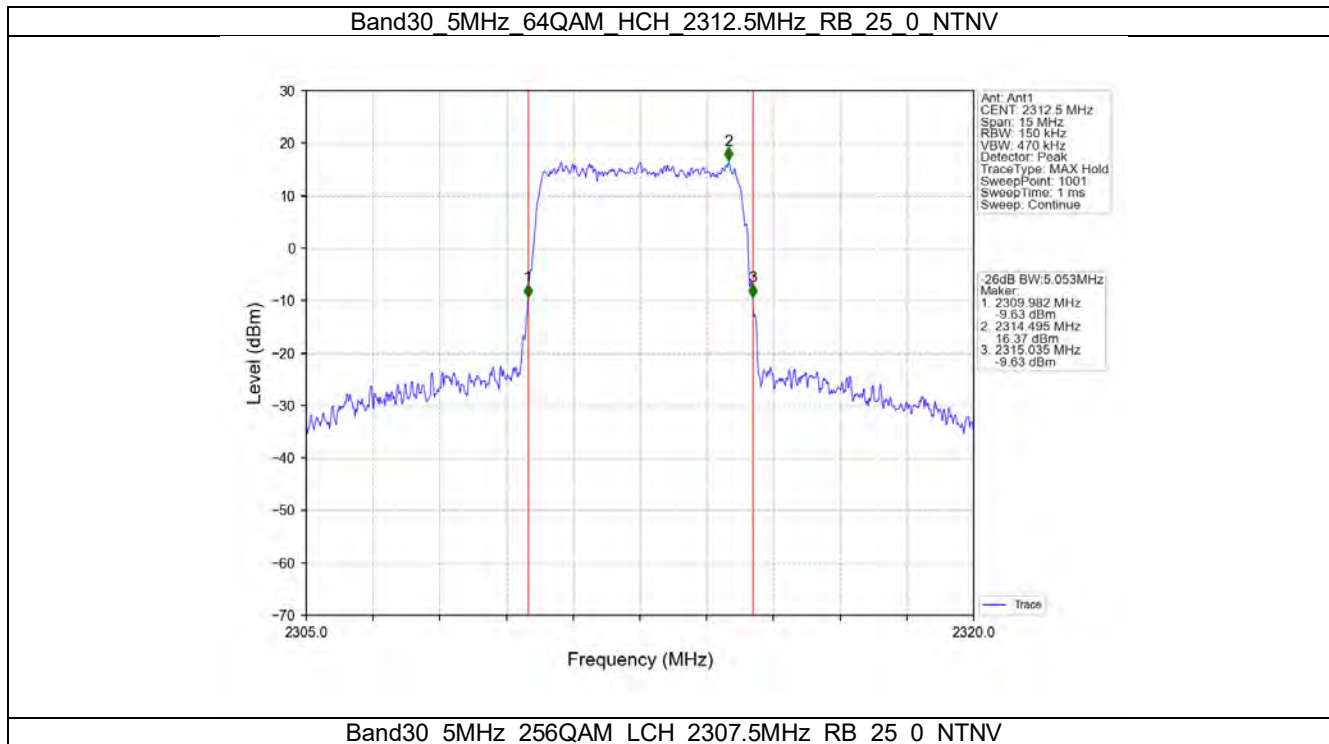
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Rev.: 01
Page: 39 of 159



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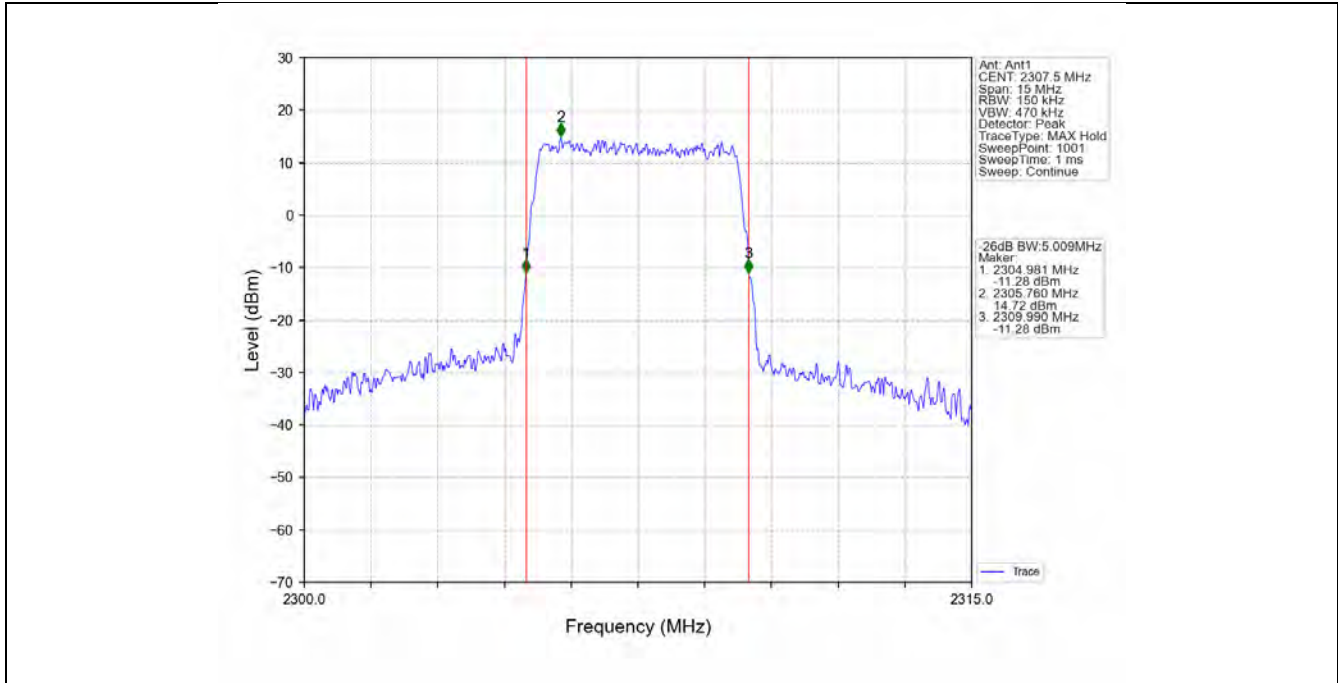


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Rev.: 01

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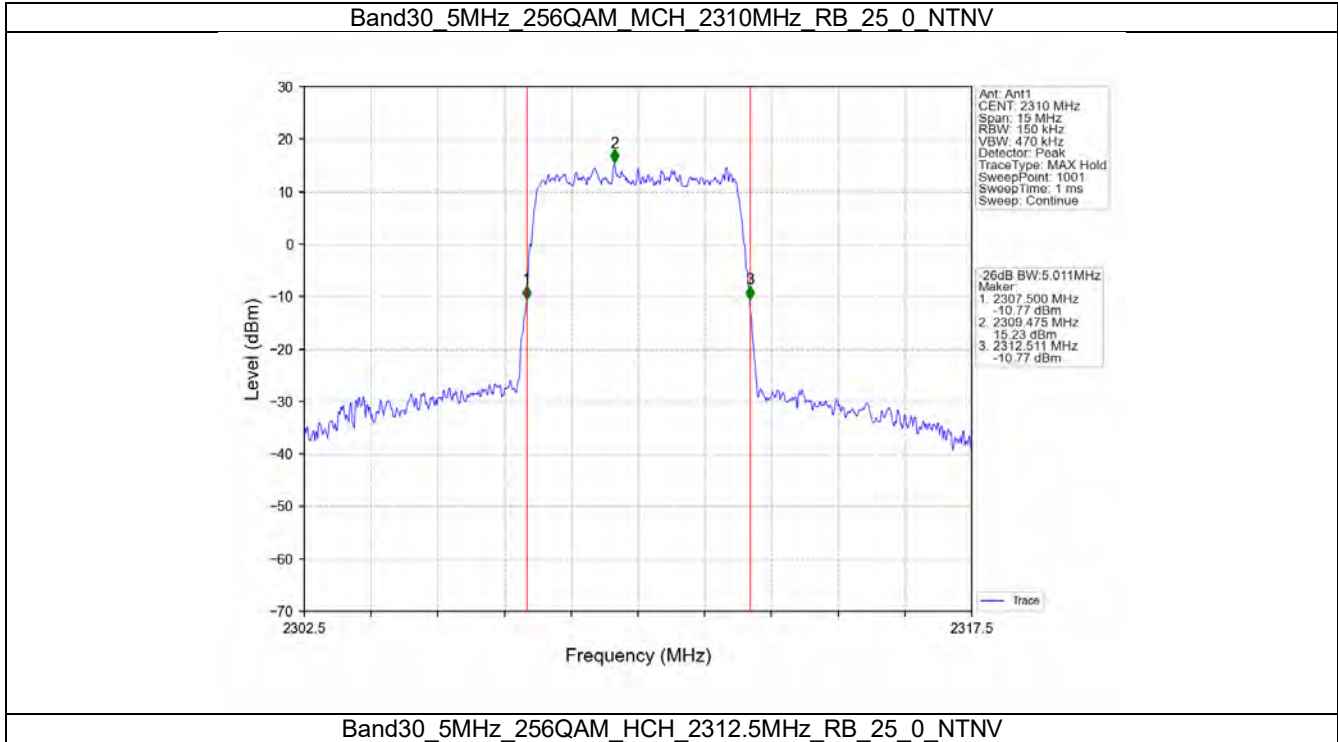


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Rev.: 01

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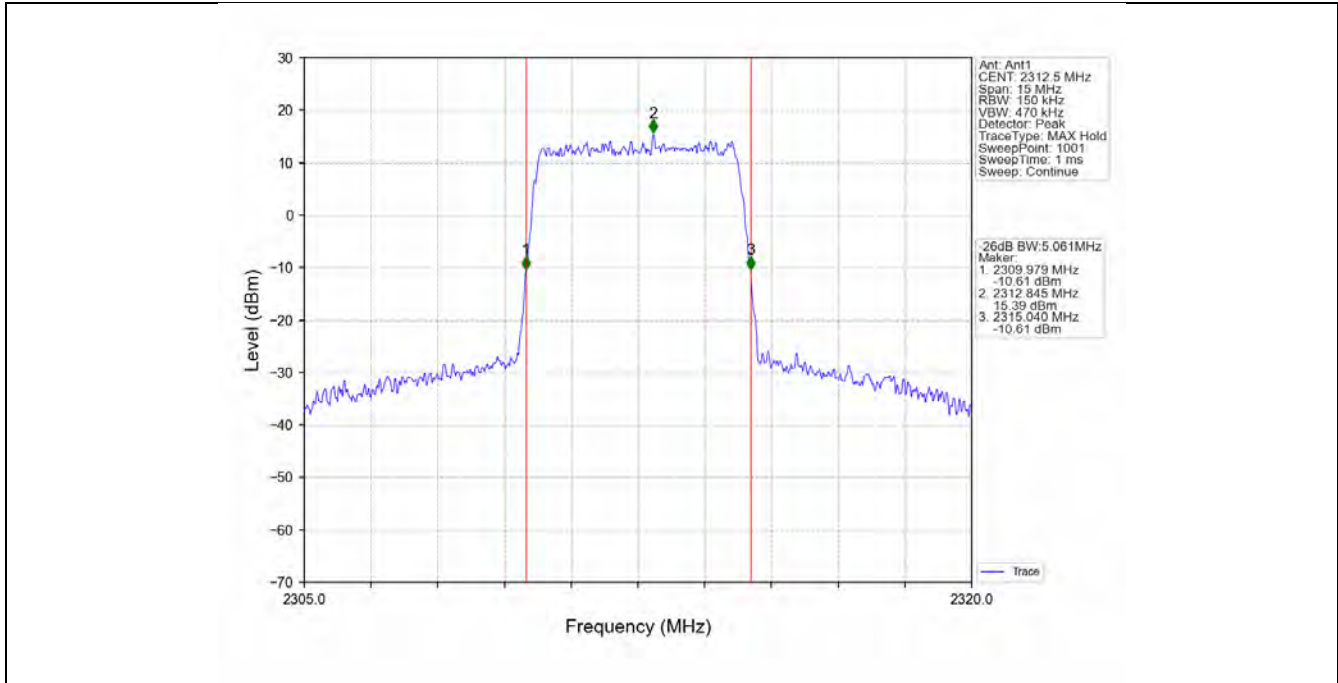


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Rev.: 01

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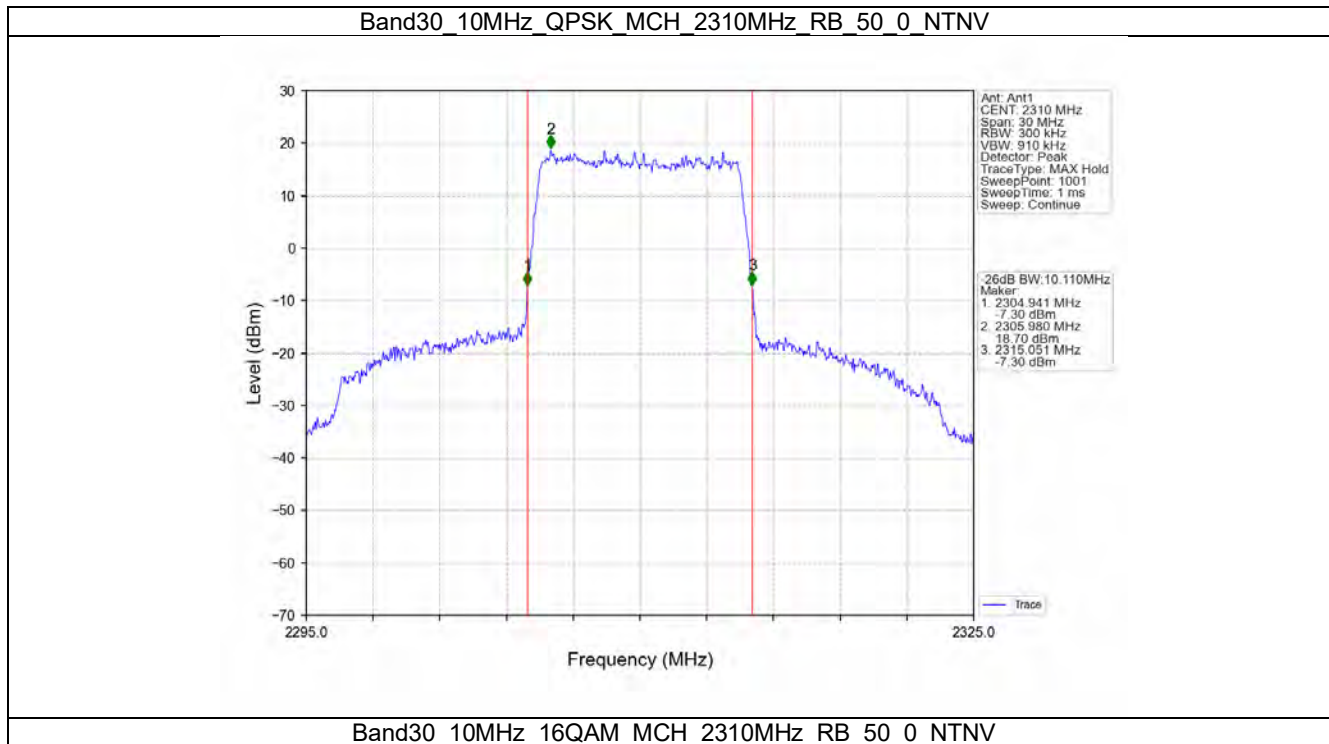
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Report No.: SZCR240100038408
Rev.: 01
Page: 43 of 159



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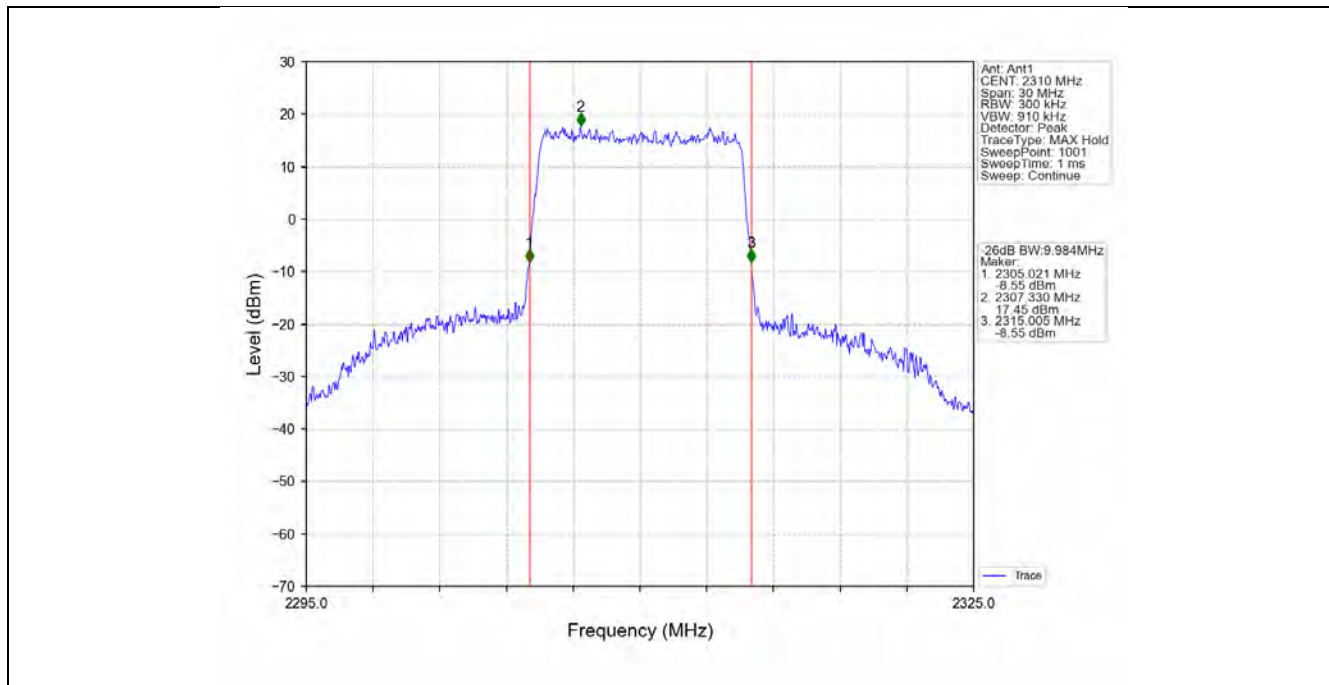
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Report No.: SZCR240100038408
Rev.: 01
Page: 44 of 159



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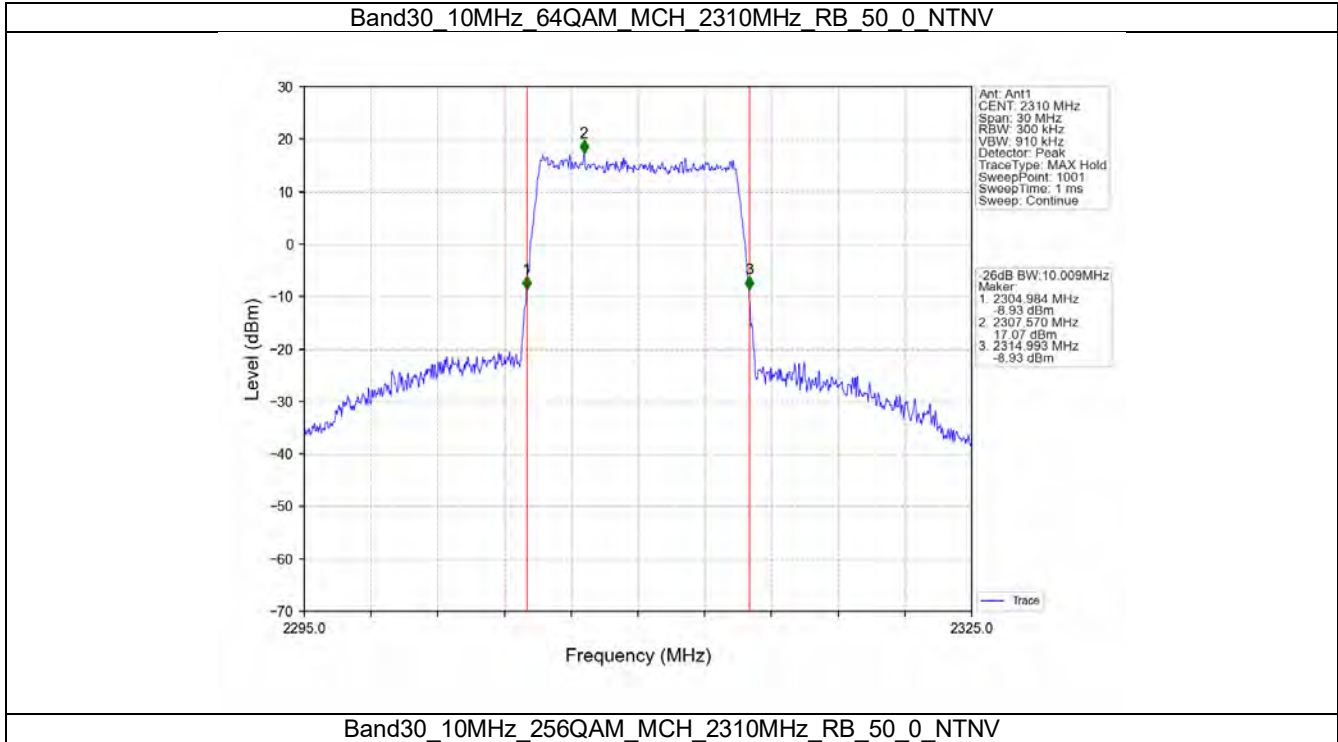


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Report No.: SZCR240100038408

Rev.: 01

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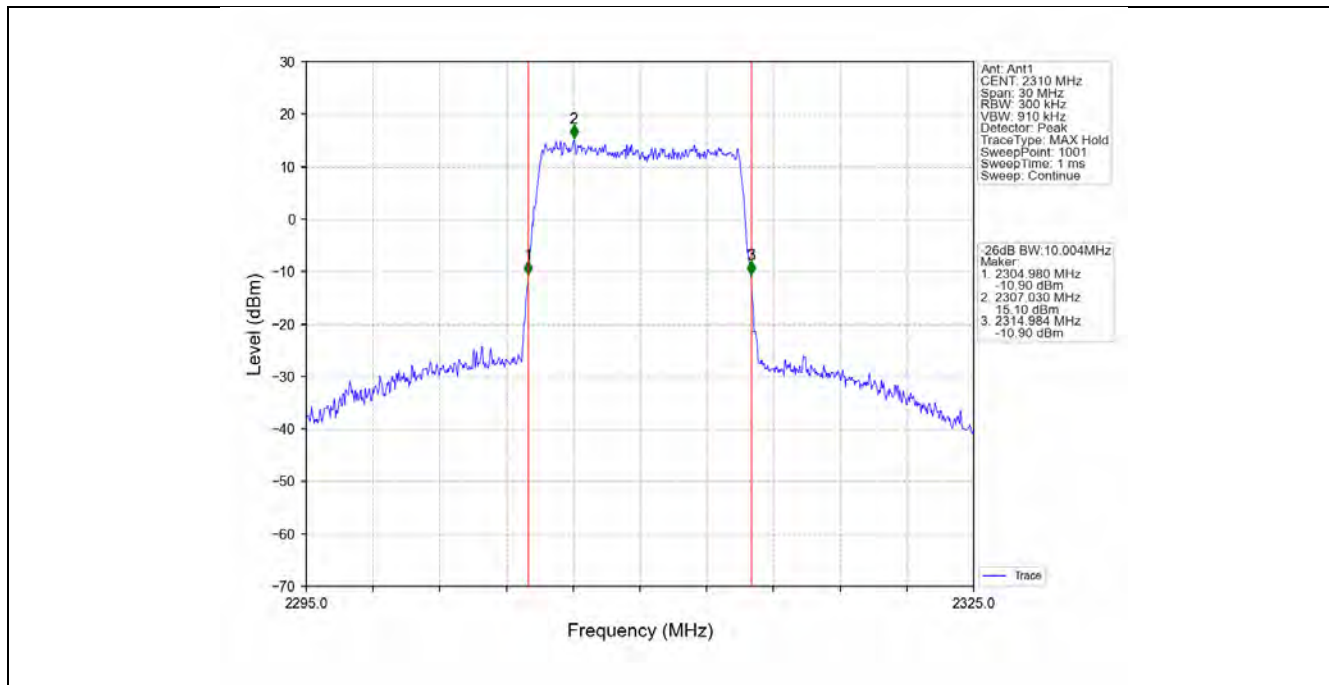
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Report No.: SZCR240100038408
Rev.: 01
Page: 46 of 159



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Report No.: SZCR240100038408
Rev.: 01
Page: 47 of 159

4. Peak-Average Ratio

4.1 B30_5MHz

4.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	4.69	<=13	Pass
	2310	25	0	4.68	<=13	Pass
	2312.5	25	0	4.67	<=13	Pass
16QAM	2307.5	25	0	5.50	<=13	Pass
	2310	25	0	5.51	<=13	Pass
	2312.5	25	0	5.47	<=13	Pass
64QAM	2307.5	25	0	6.40	<=13	Pass
	2310	25	0	6.38	<=13	Pass
	2312.5	25	0	6.30	<=13	Pass
256QAM	2307.5	25	0	6.80	<=13	Pass
	2310	25	0	6.78	<=13	Pass
	2312.5	25	0	6.71	<=13	Pass



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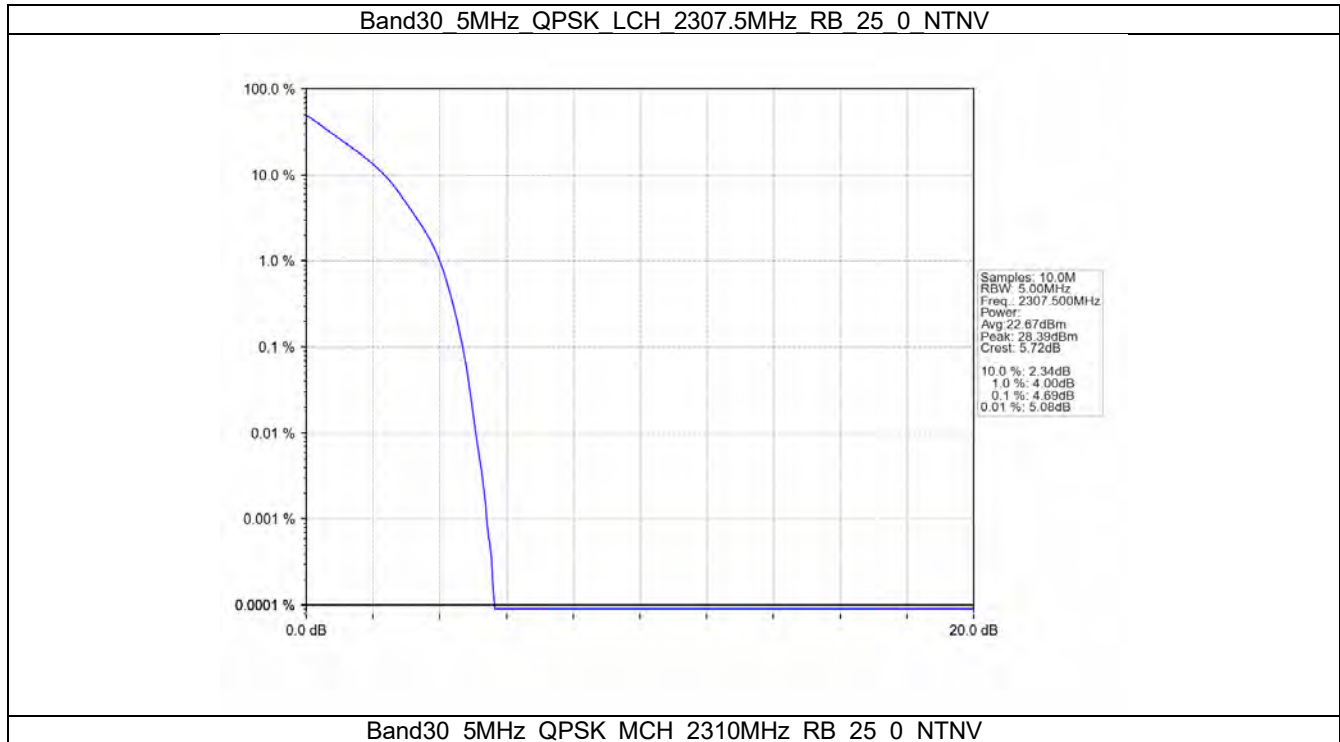
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Report No.: SZCR240100038408

Rev.: 01

Page: 48 of 159

4.1.2 Test Graph



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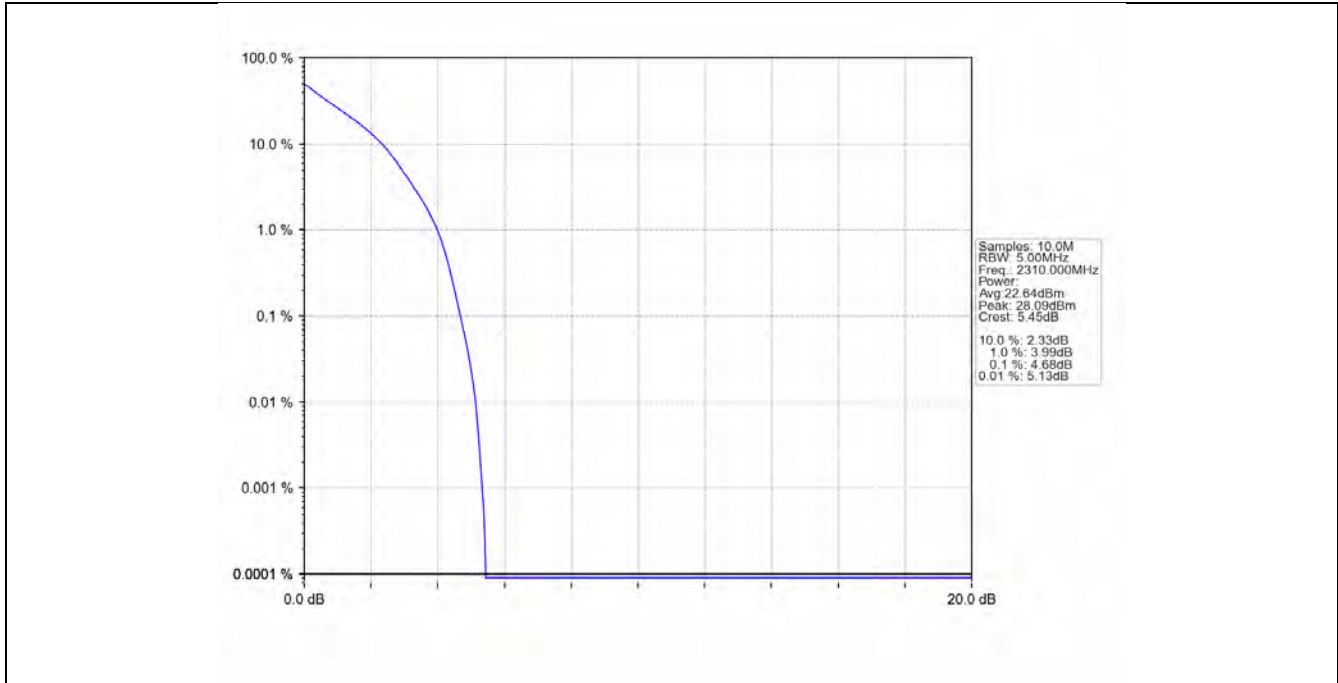


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Report No.: SZCR240100038408

Rev.: 01

Page: 49 of 159



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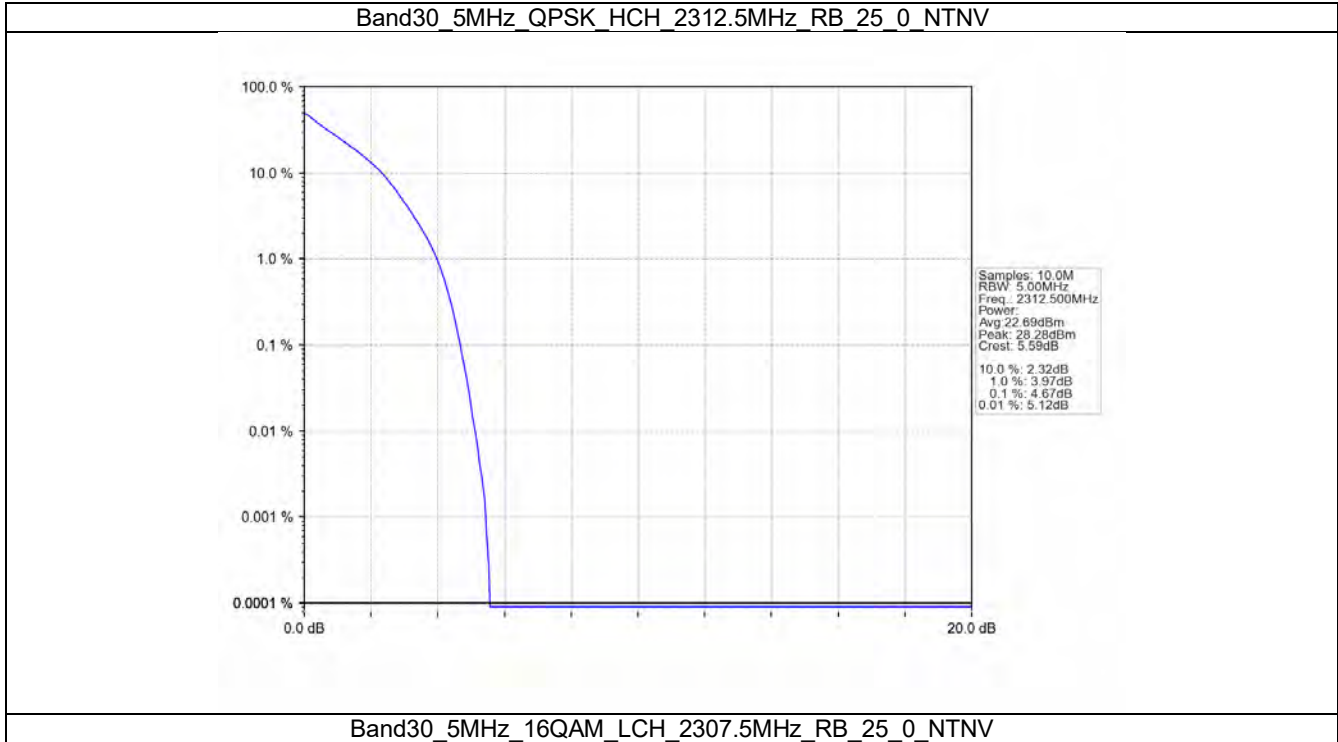


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Rev.: 01

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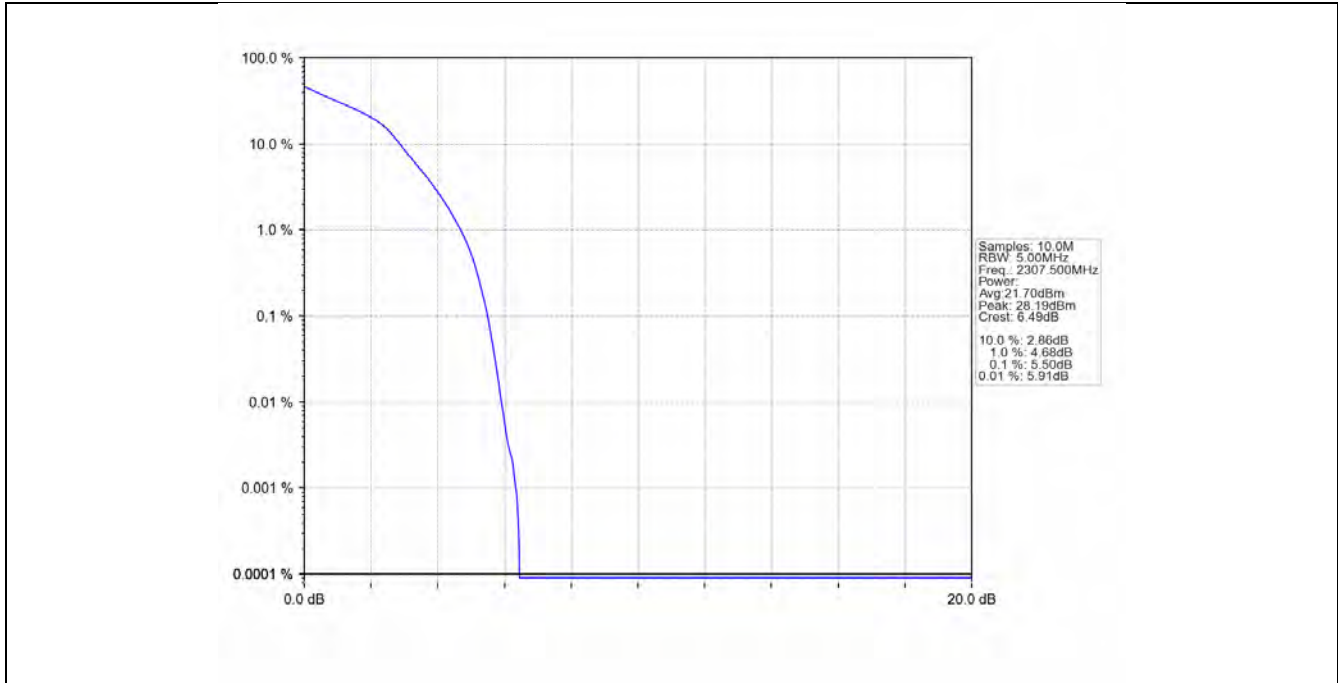


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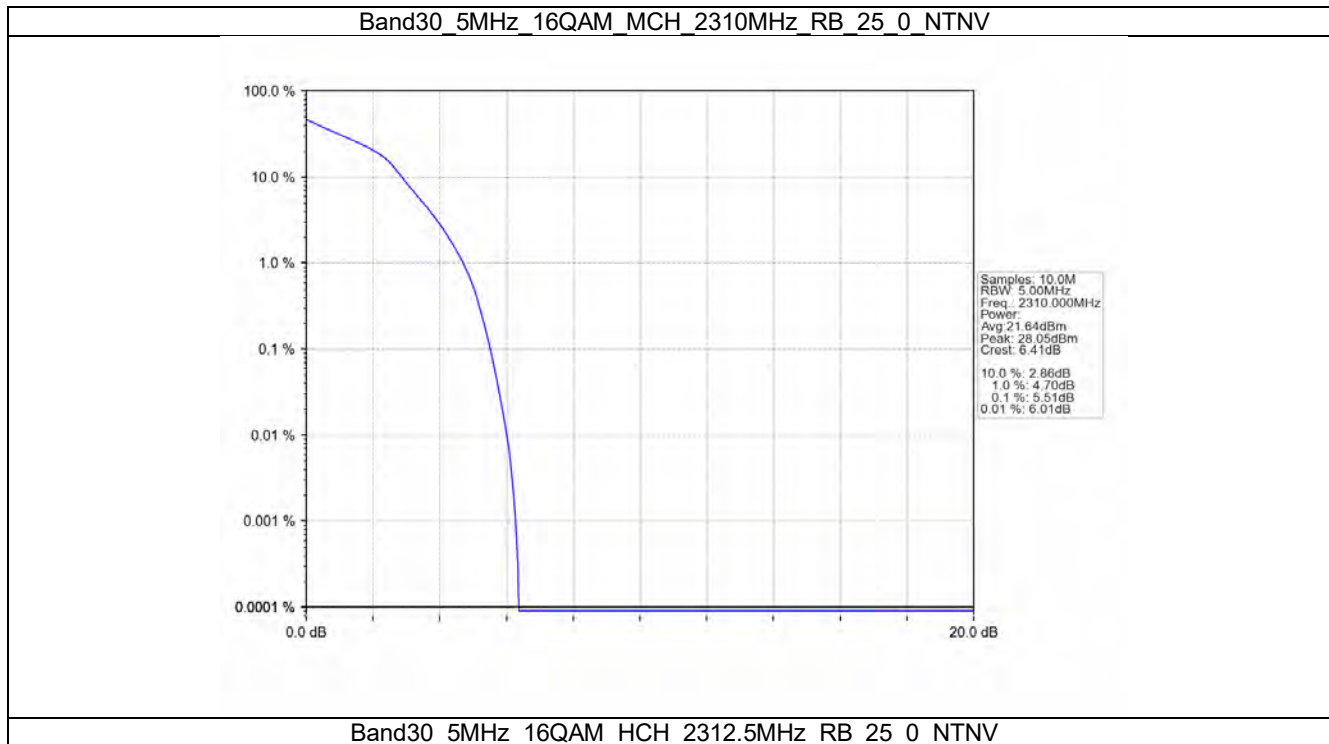
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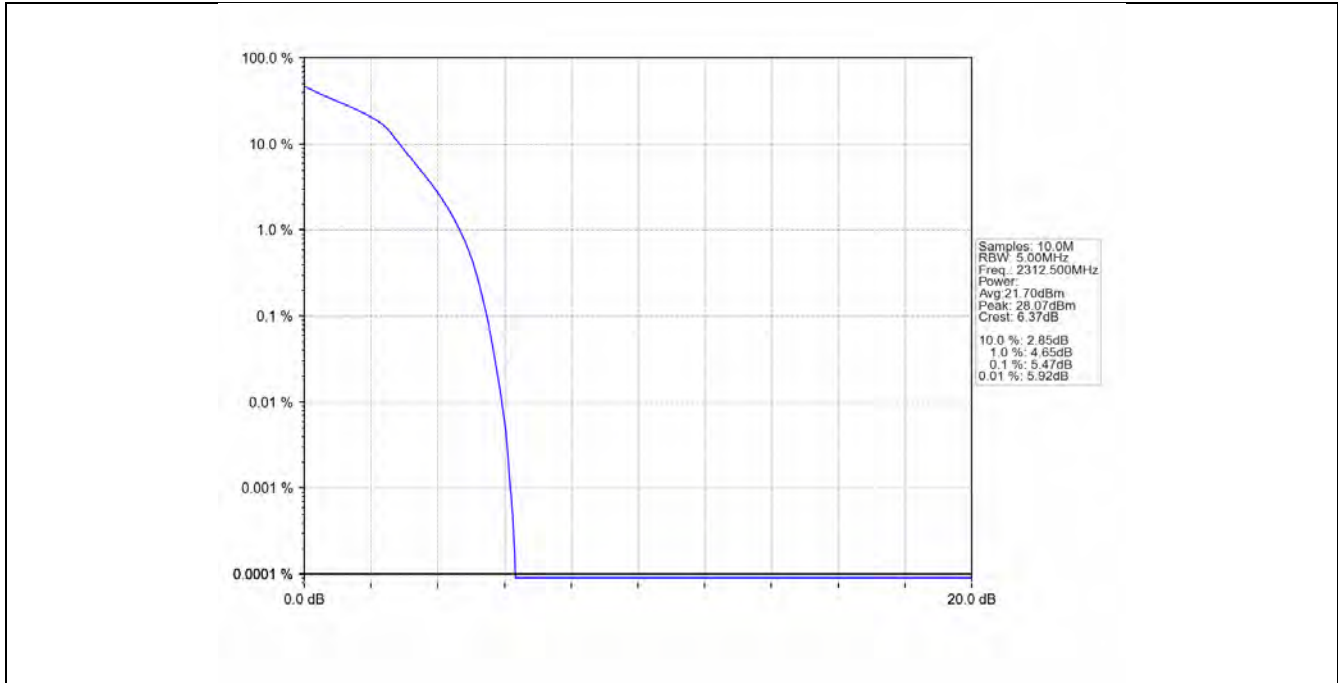


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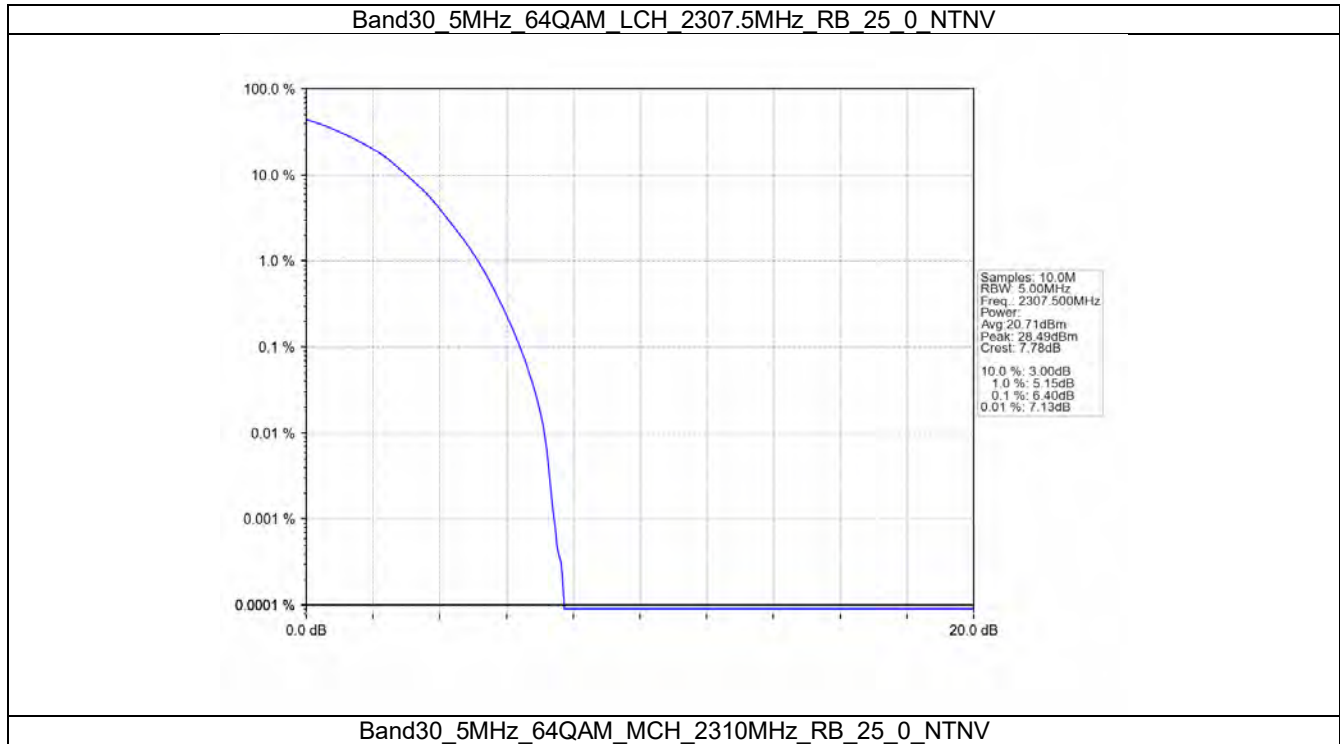


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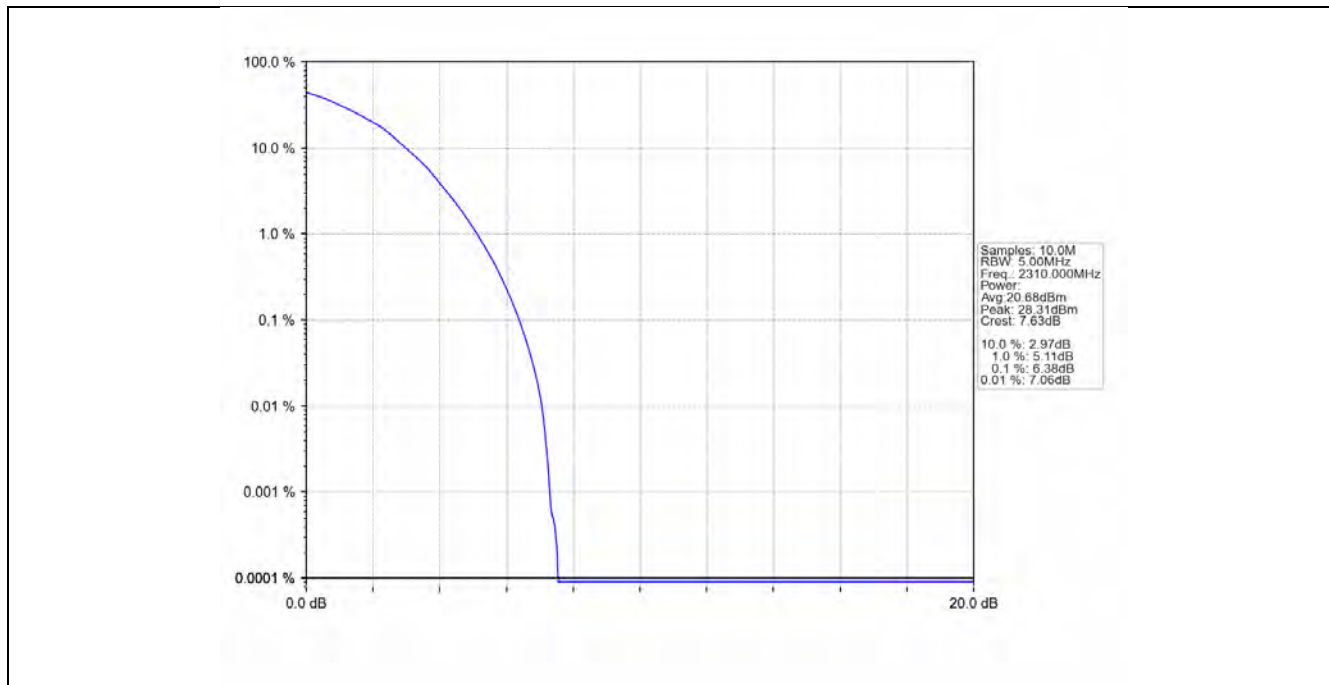
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Rev.: 01
Page: 55 of 159



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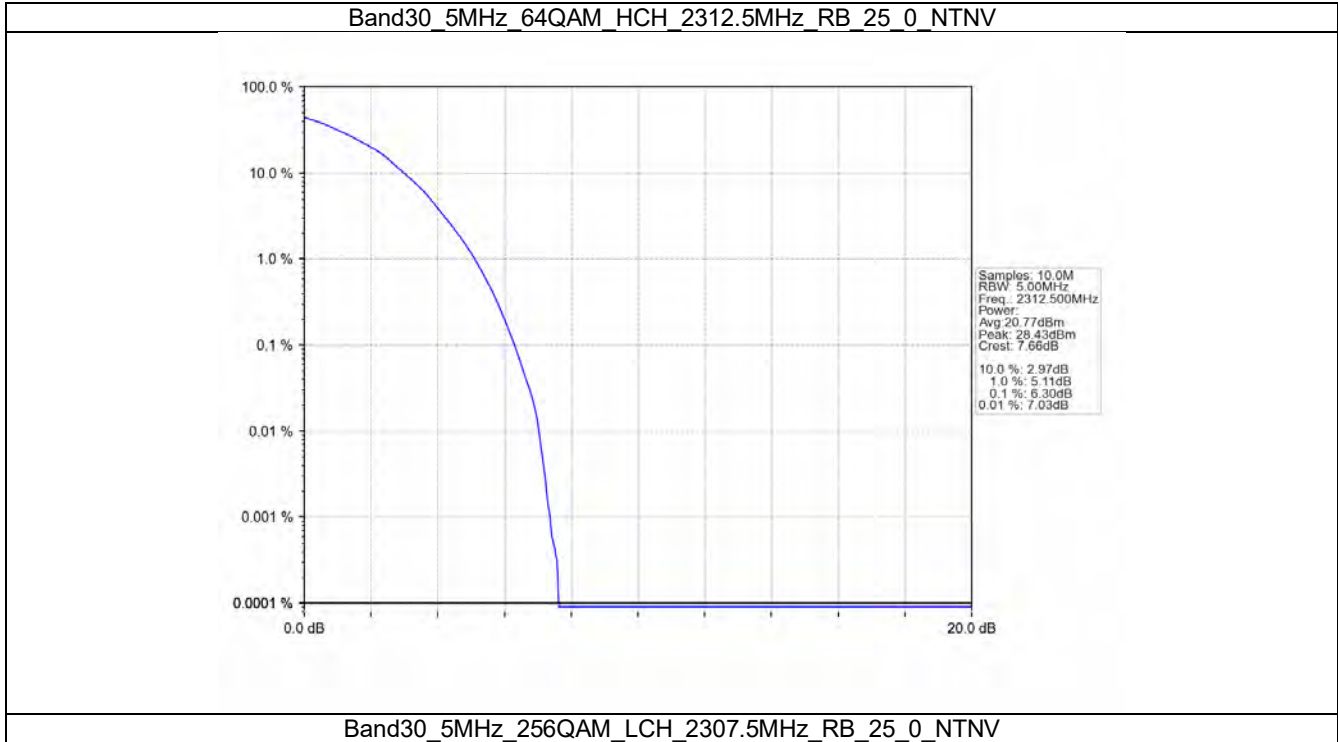


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Report No.: SZCR240100038408

Rev.: 01

Page: 56 of 159



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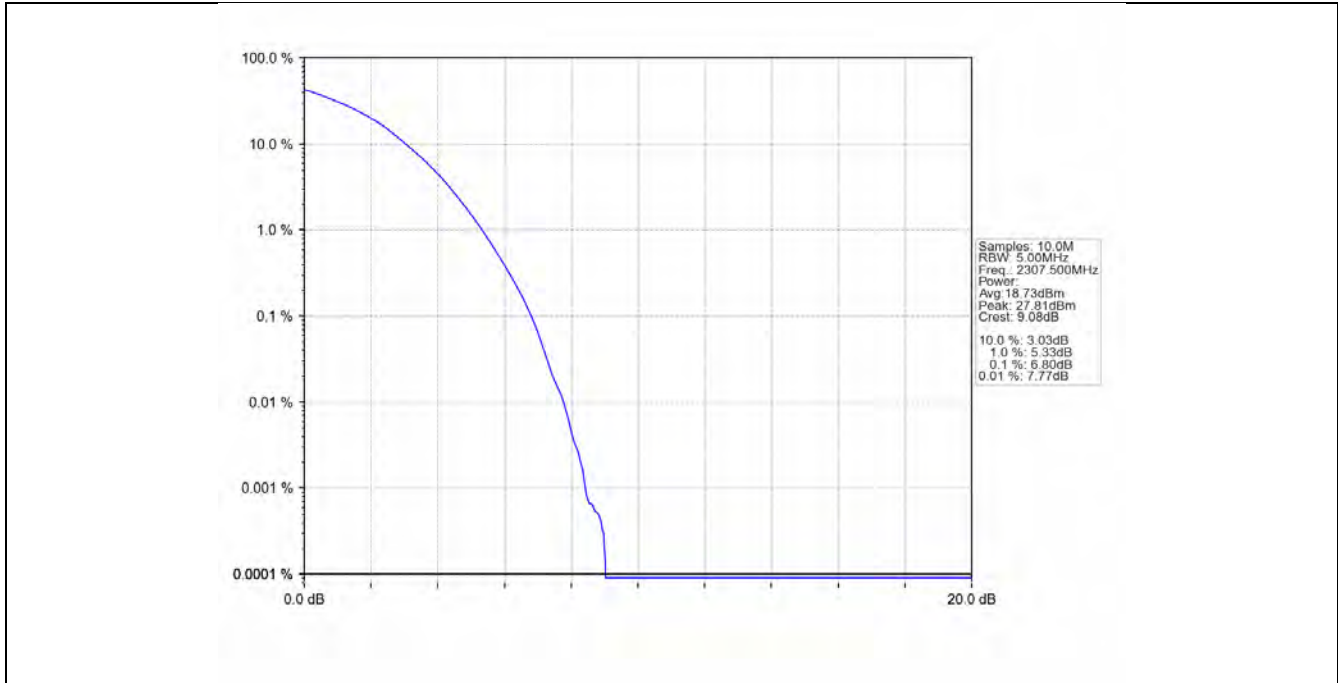


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Report No.: SZCR240100038408

Rev.: 01

Page: 57 of 159



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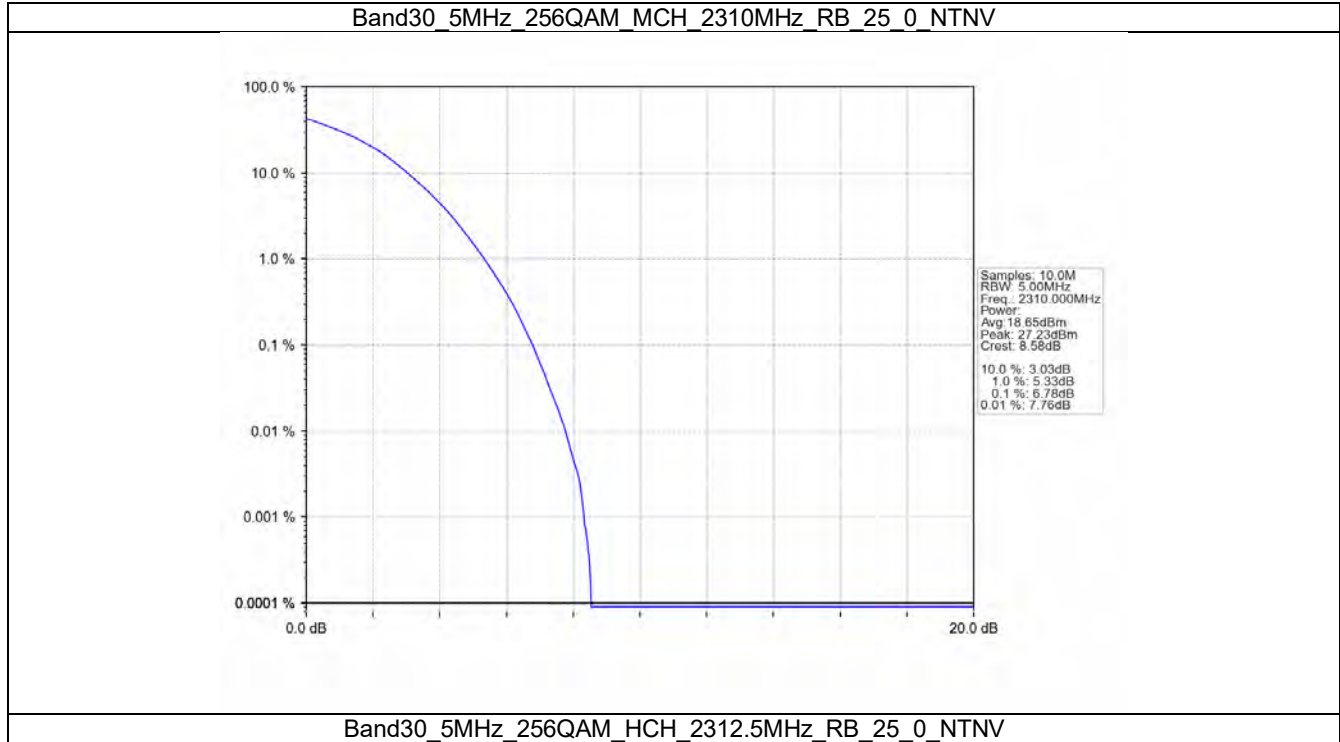


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Report No.: SZCR240100038408

Rev.: 01

Page: 58 of 159



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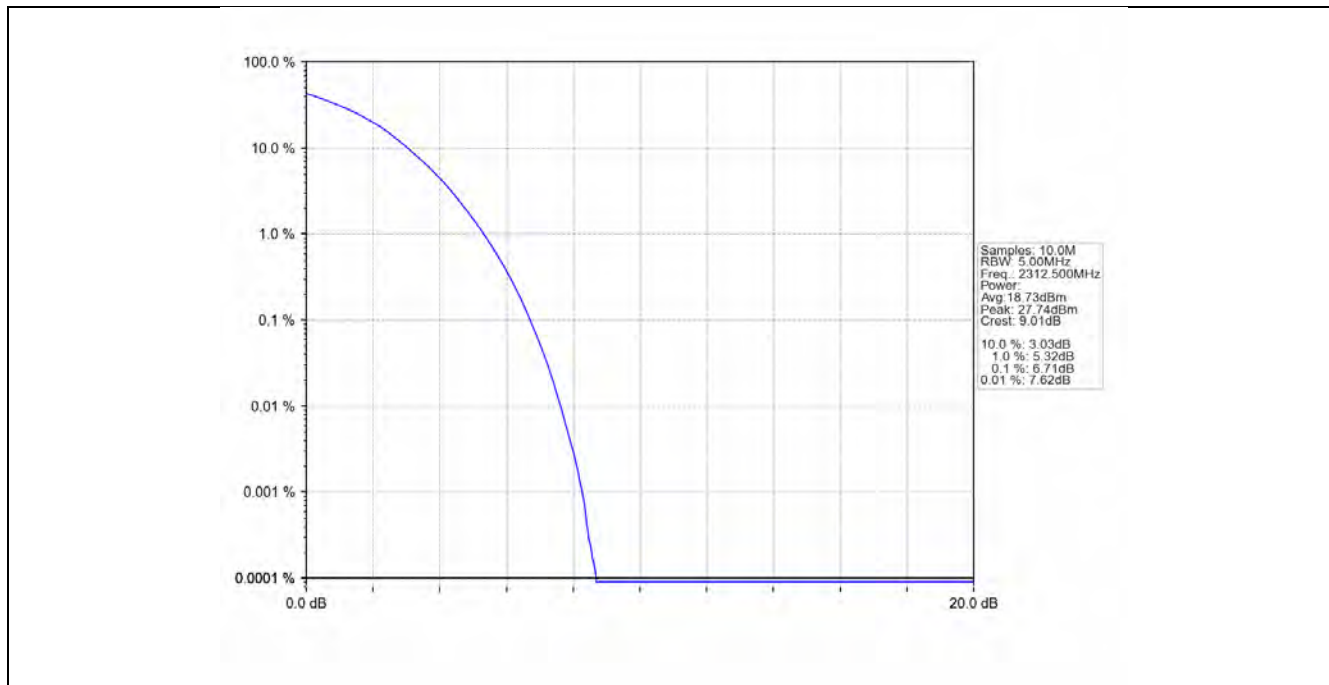
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Report No.: SZCR240100038408
Rev.: 01
Page: 59 of 159



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Report No.: SZCR240100038408

Rev.: 01

Page: 60 of 159

4.2 B30_10MHz

4.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	4.80	<=13	Pass
16QAM	2310	50	0	5.54	<=13	Pass
64QAM	2310	50	0	6.35	<=13	Pass
256QAM	2310	50	0	6.73	<=13	Pass



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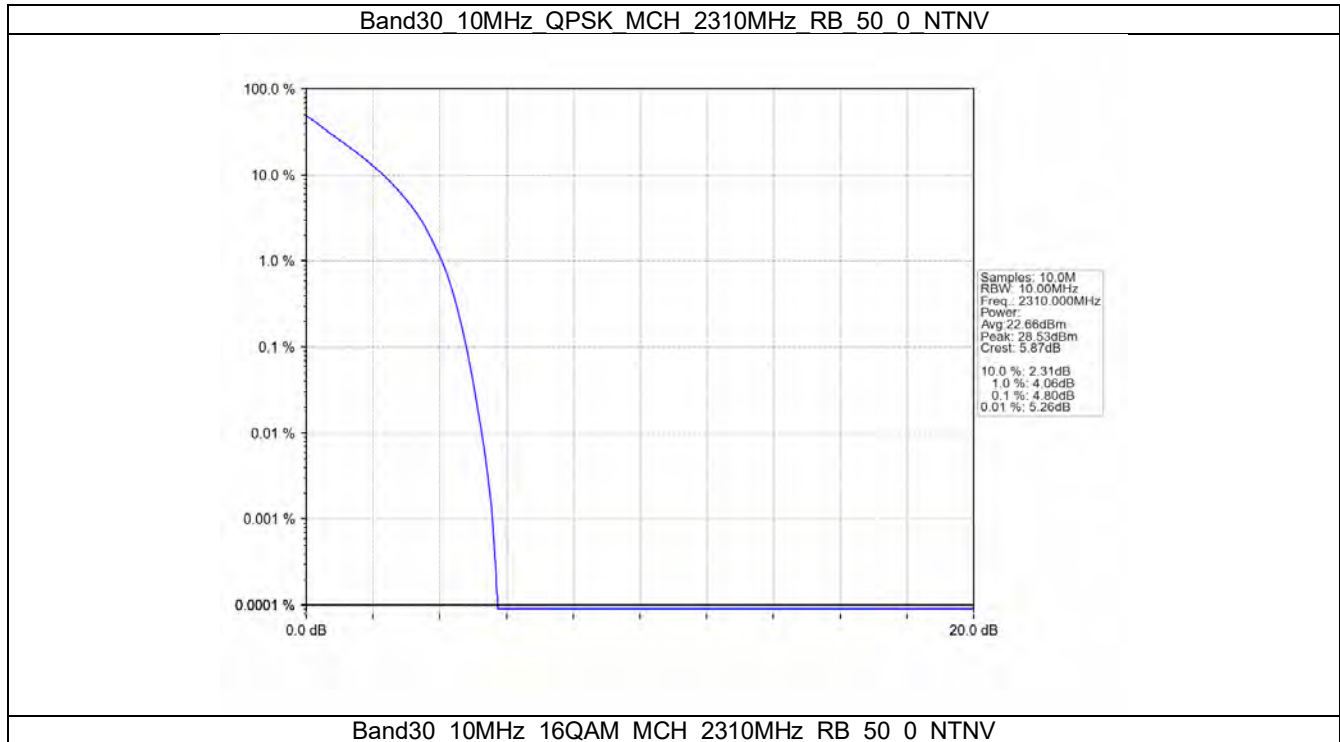


Report No.: SZCR240100038408

Rev.: 01

Page: 61 of 159

4.2.2 Test Graph



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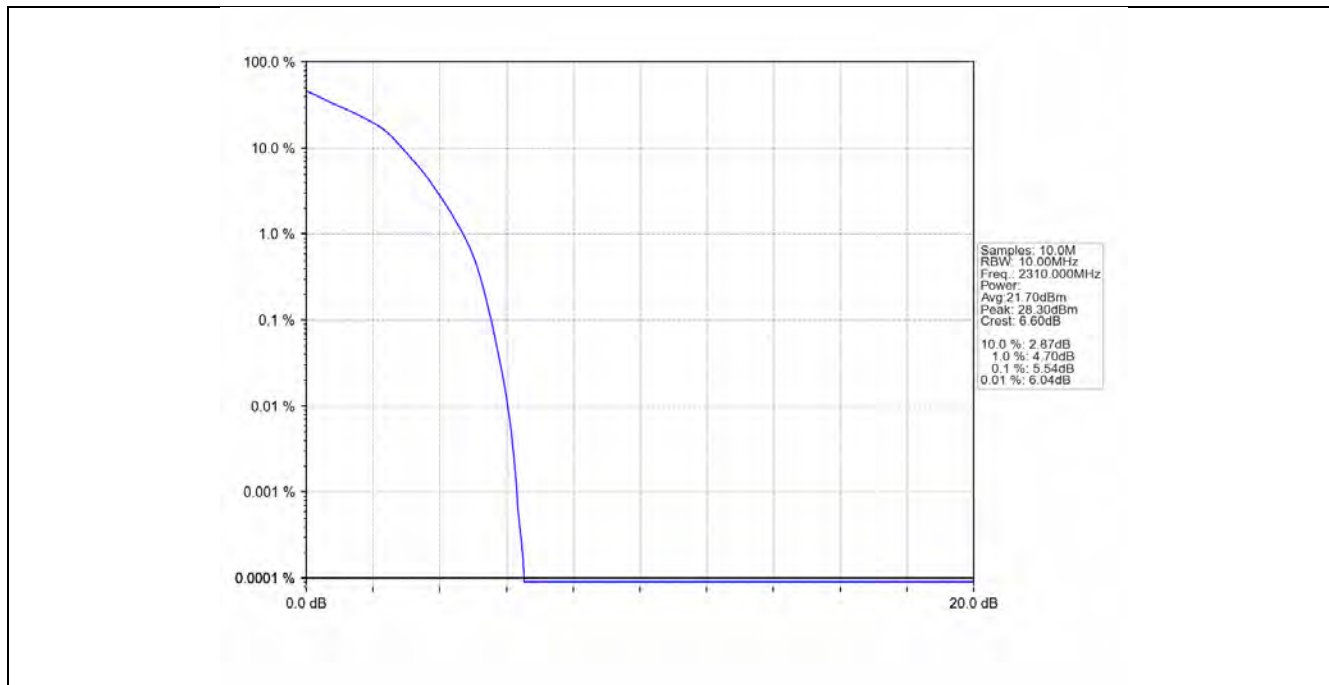
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Report No.: SZCR240100038408
 Rev.: 01
 Page: 62 of 159



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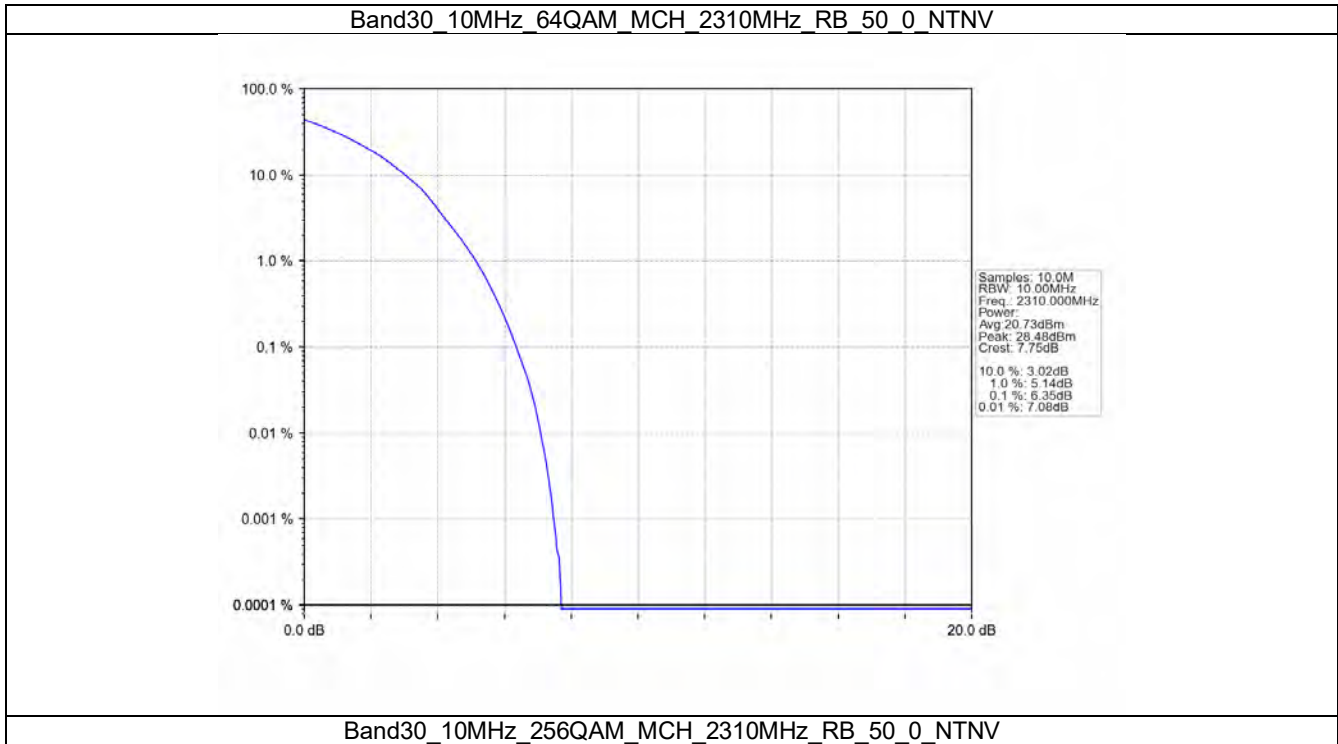


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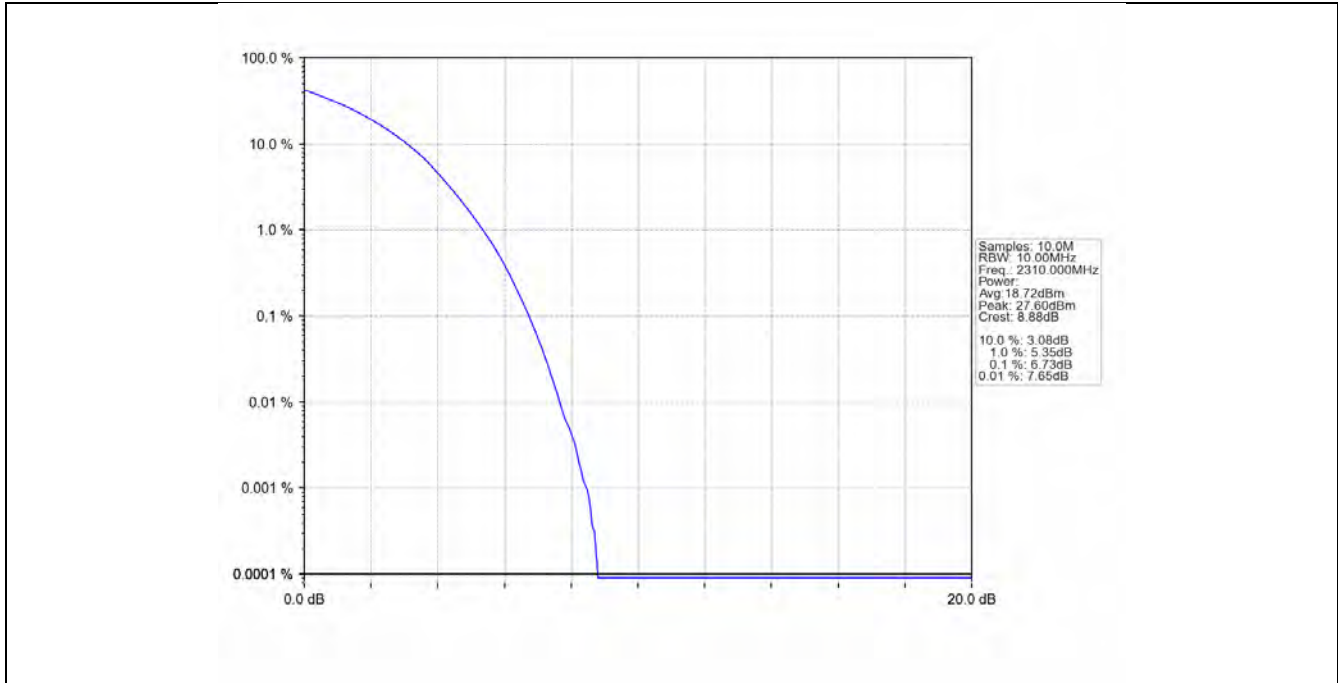


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Report No.: SZCR240100038408

Rev.: 01

Page: 65 of 159

5. Spurious Emission & Band Edges

5.1 B30_5MHz

5.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
256QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2312.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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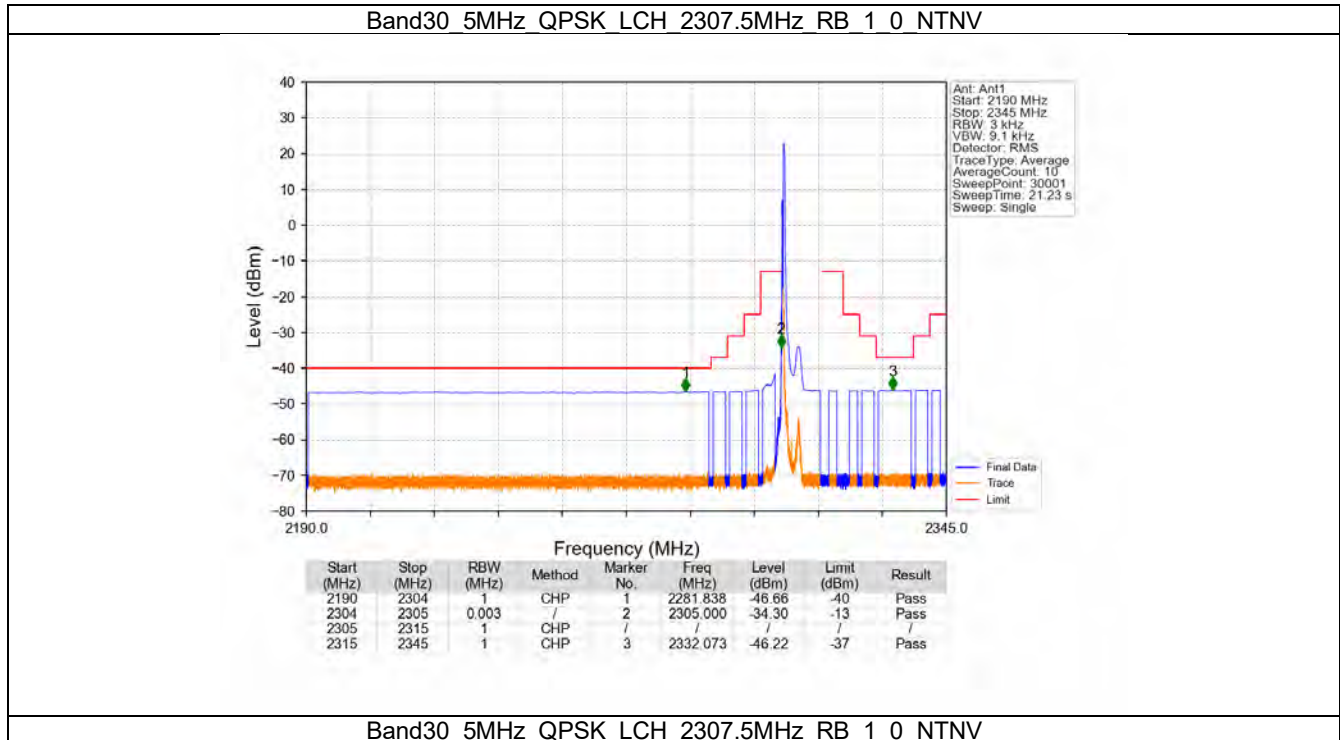
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5.1.2 Test Graph



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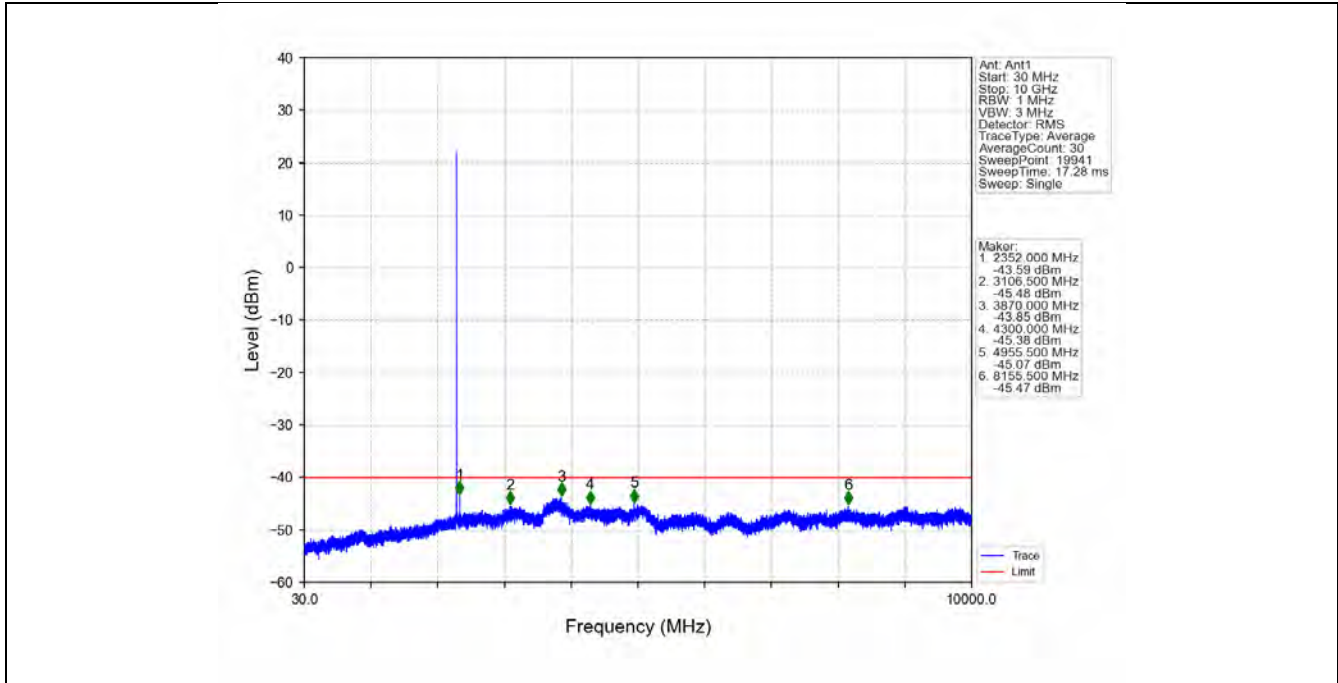


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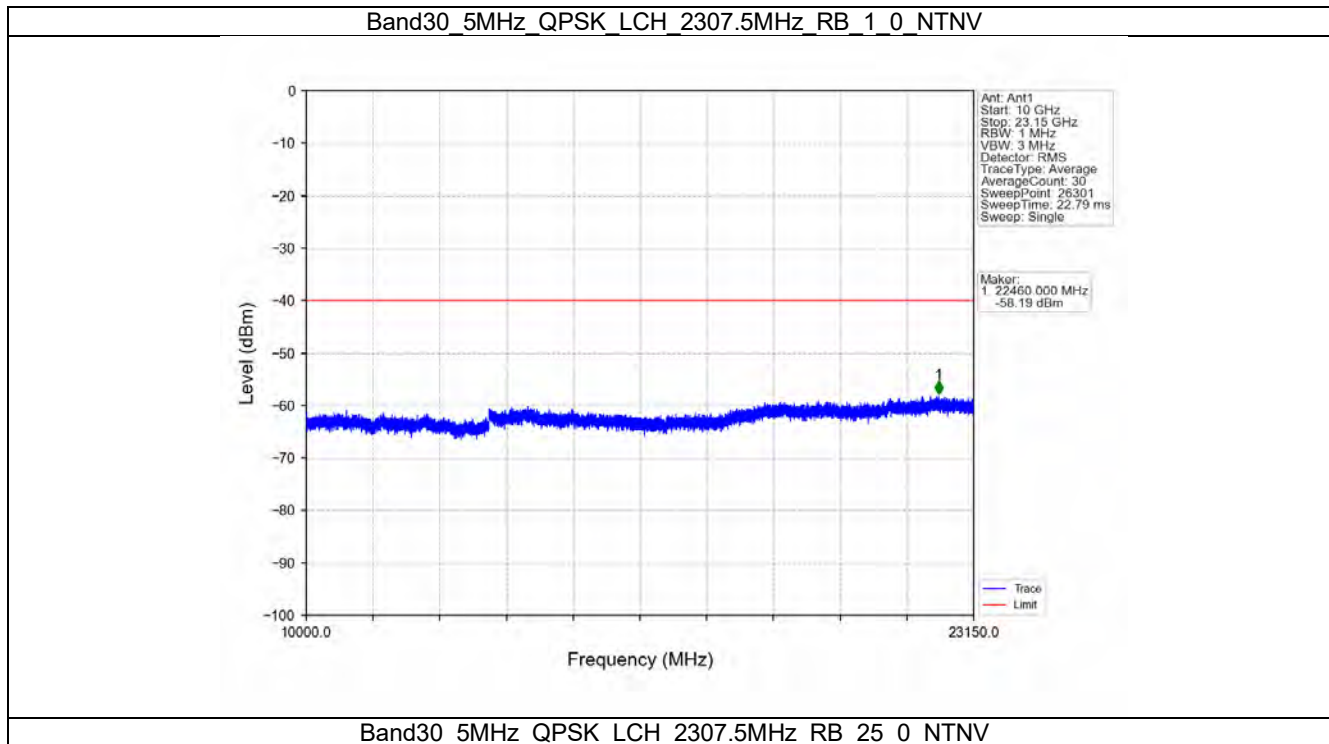
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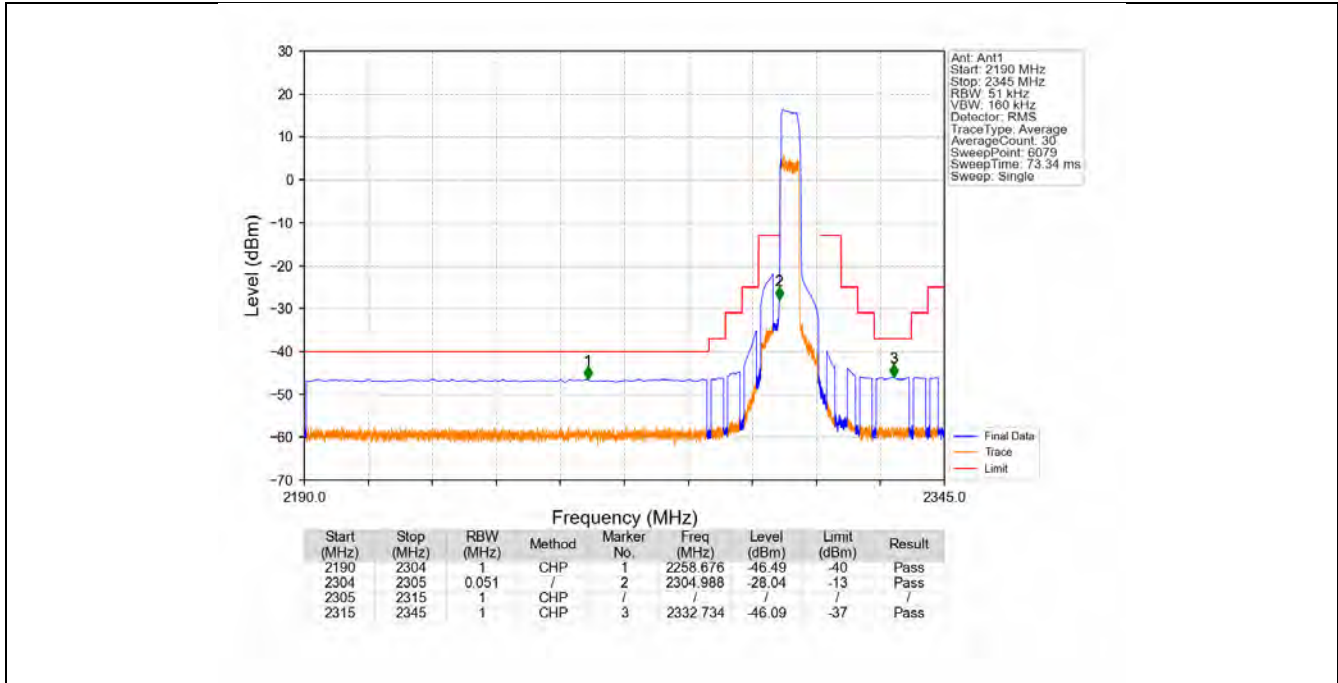


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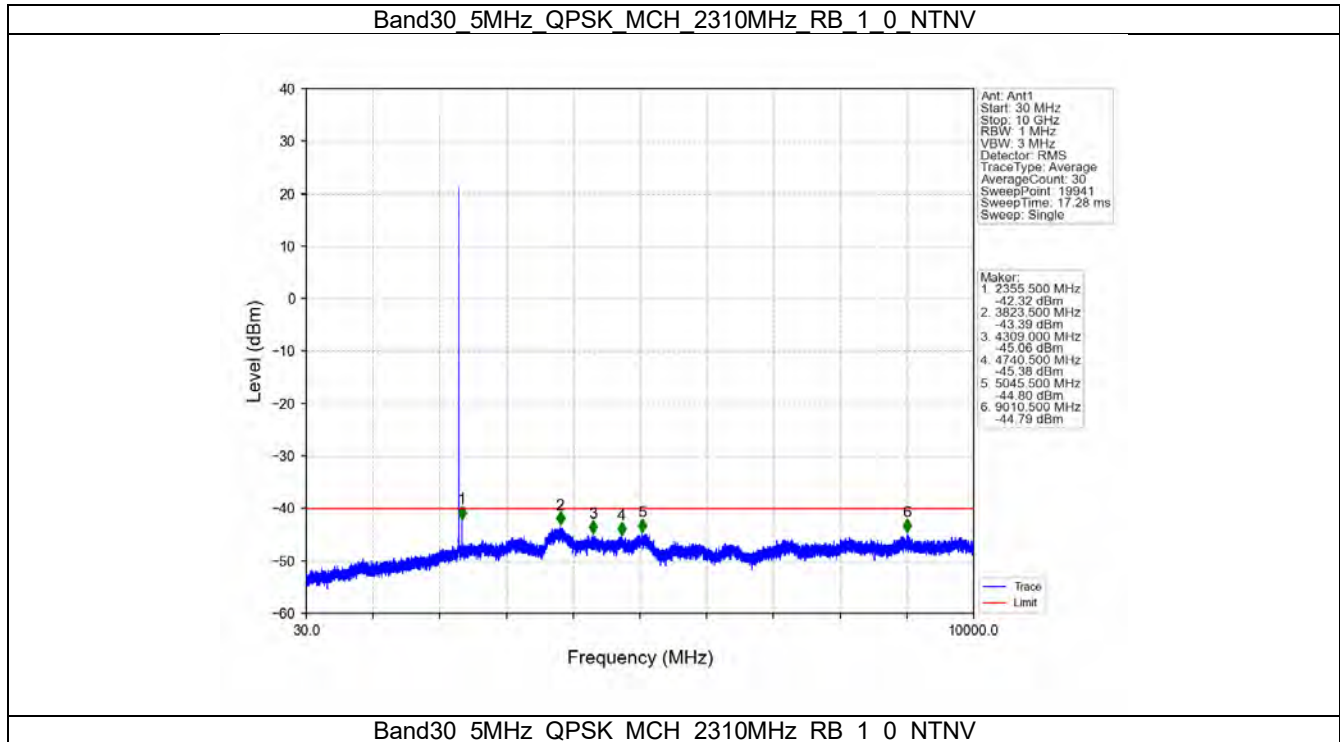


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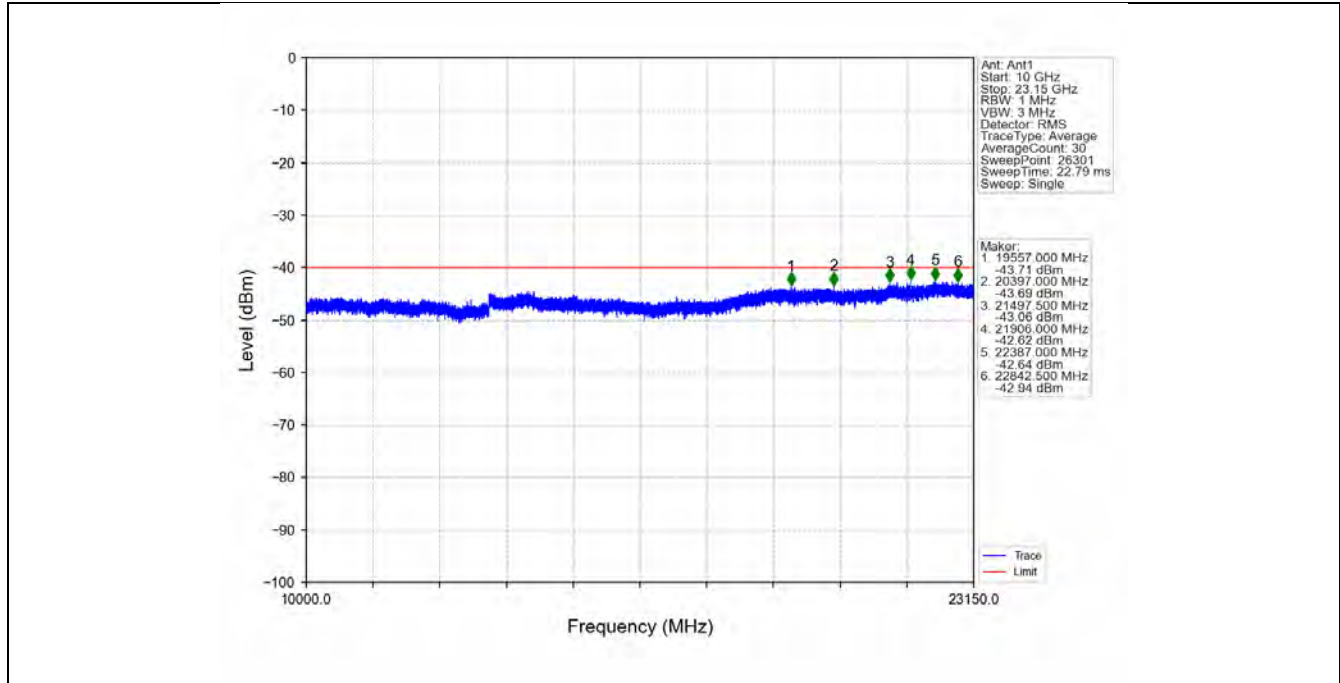


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Rev.: 01

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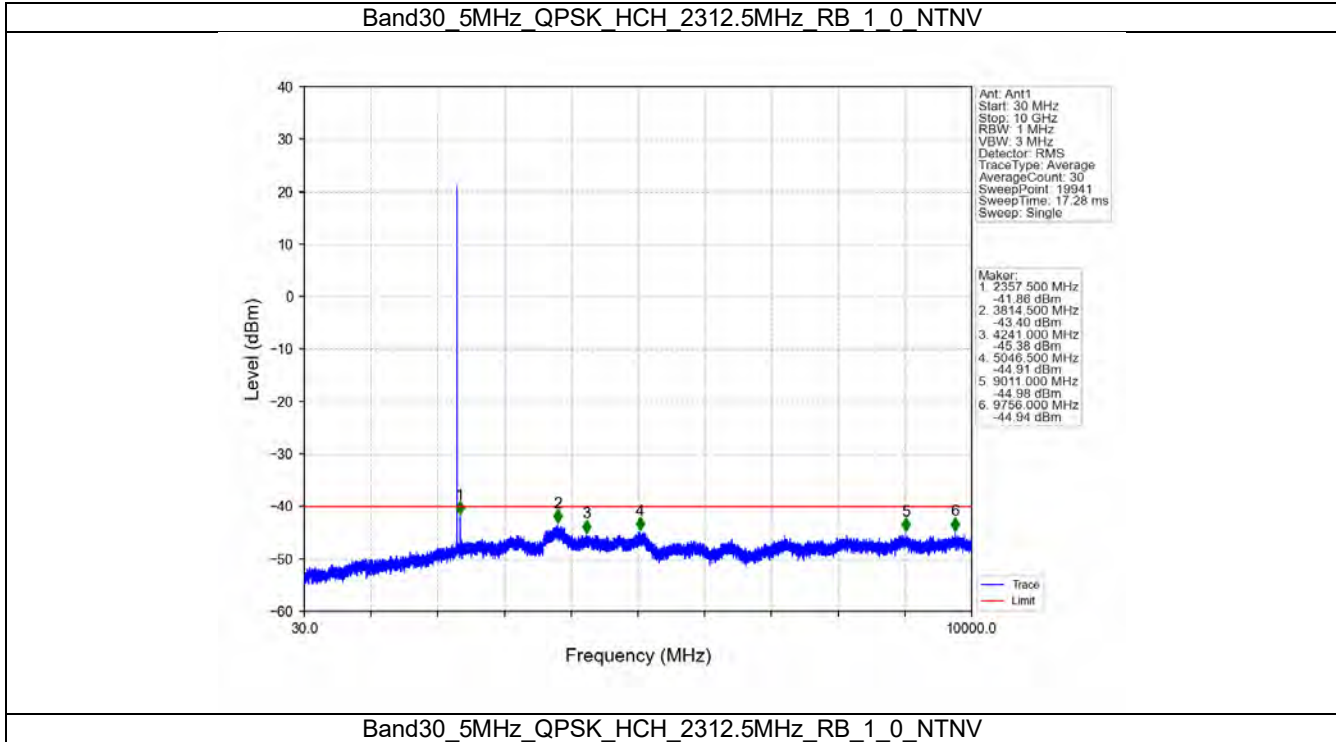


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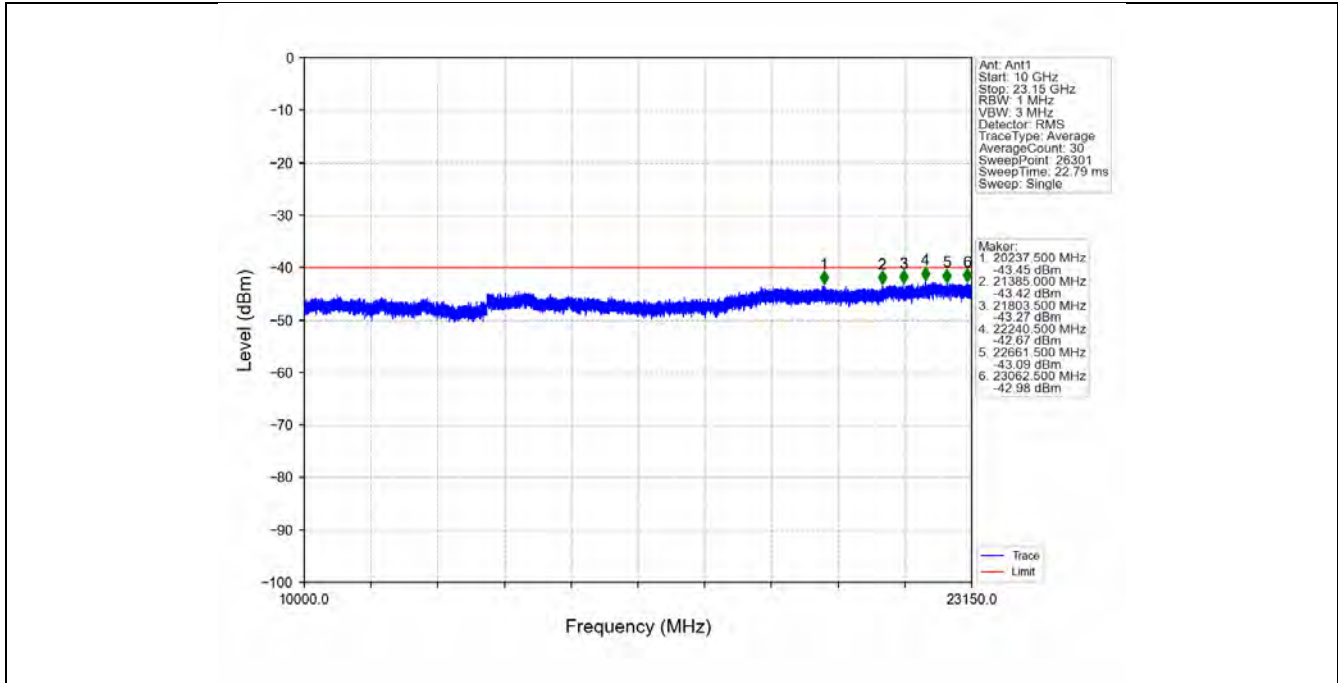


**SGS-CSTC Standards Technical Services Co., Ltd.
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Report No.: SZCR240100038408

Rev.: 01

Page: 73 of 159



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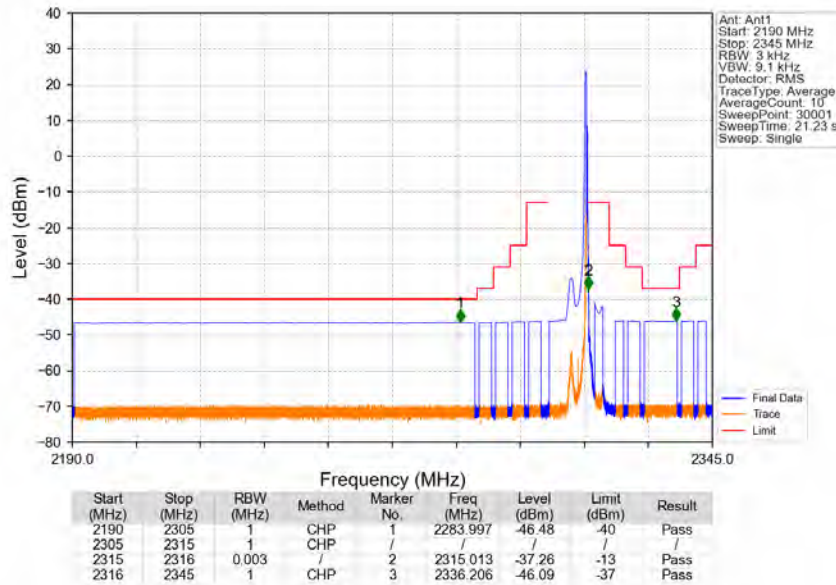
**SGS-CSTC Standards Technical Services Co., Ltd.
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Report No.: SZCR240100038408

Rev.: 01

Page: 74 of 159

Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



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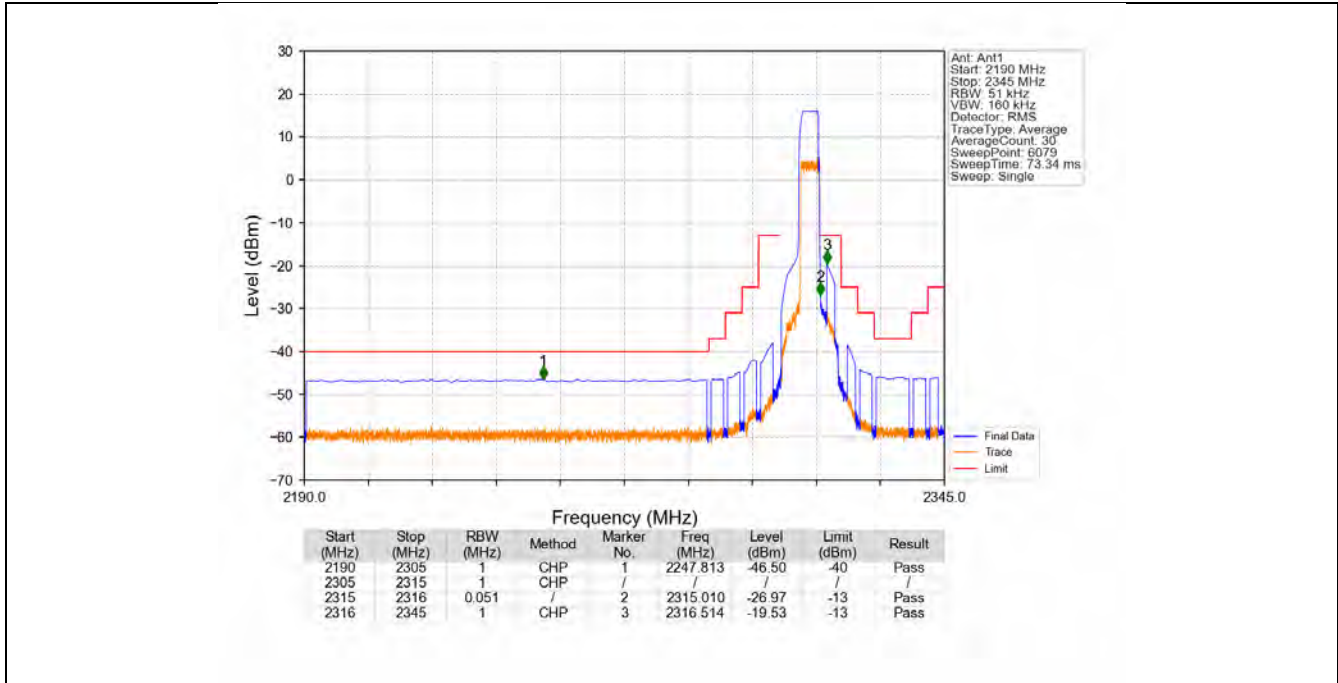


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Report No.: SZCR240100038408

Rev.: 01

Page: 75 of 159



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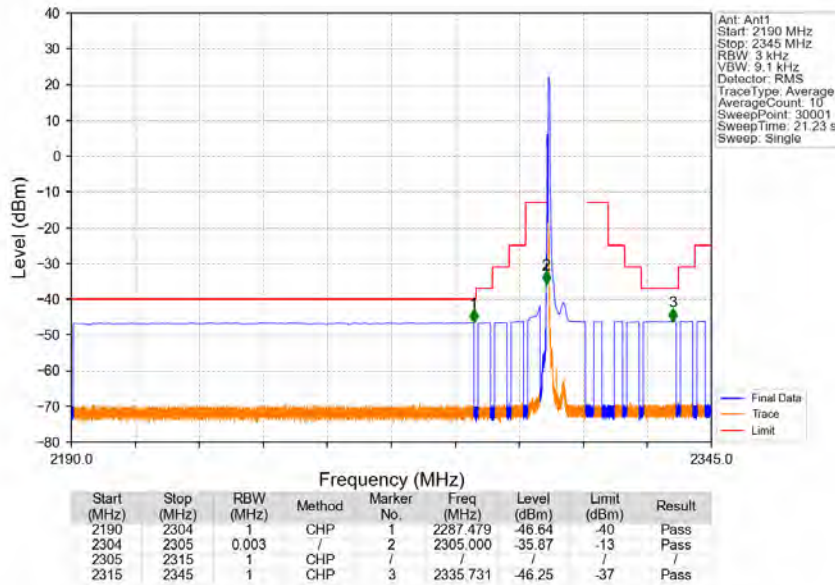
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Report No.: SZCR240100038408

Rev.: 01

Page: 76 of 159

Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



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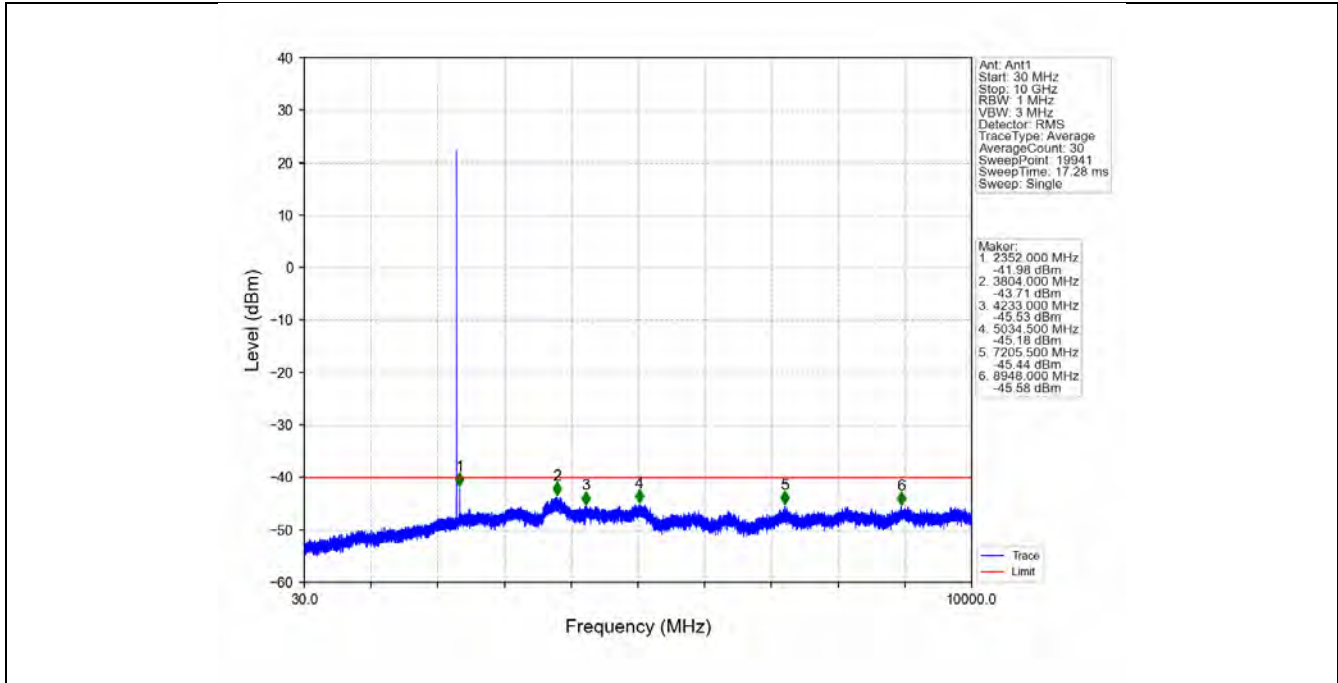


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Report No.: SZCR240100038408

Rev.: 01

Page: 77 of 159



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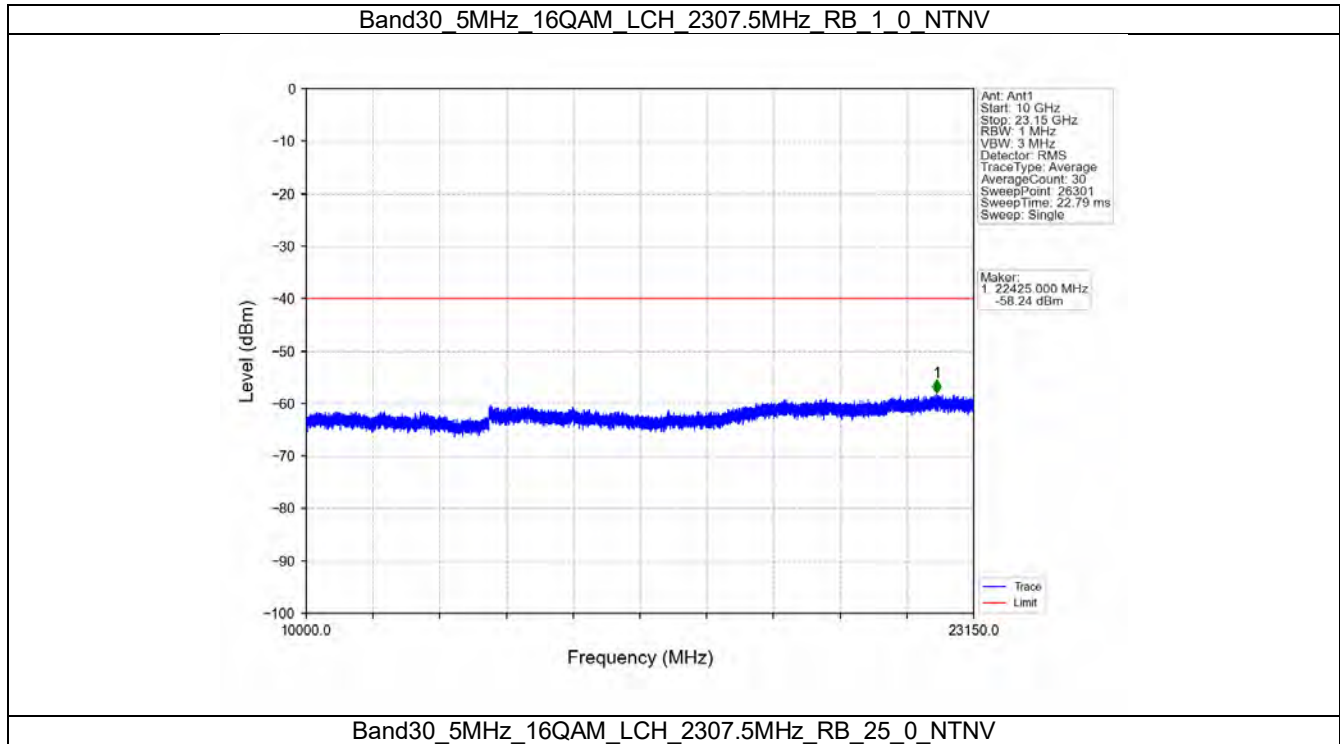


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Report No.: SZCR240100038408

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Page: 78 of 159



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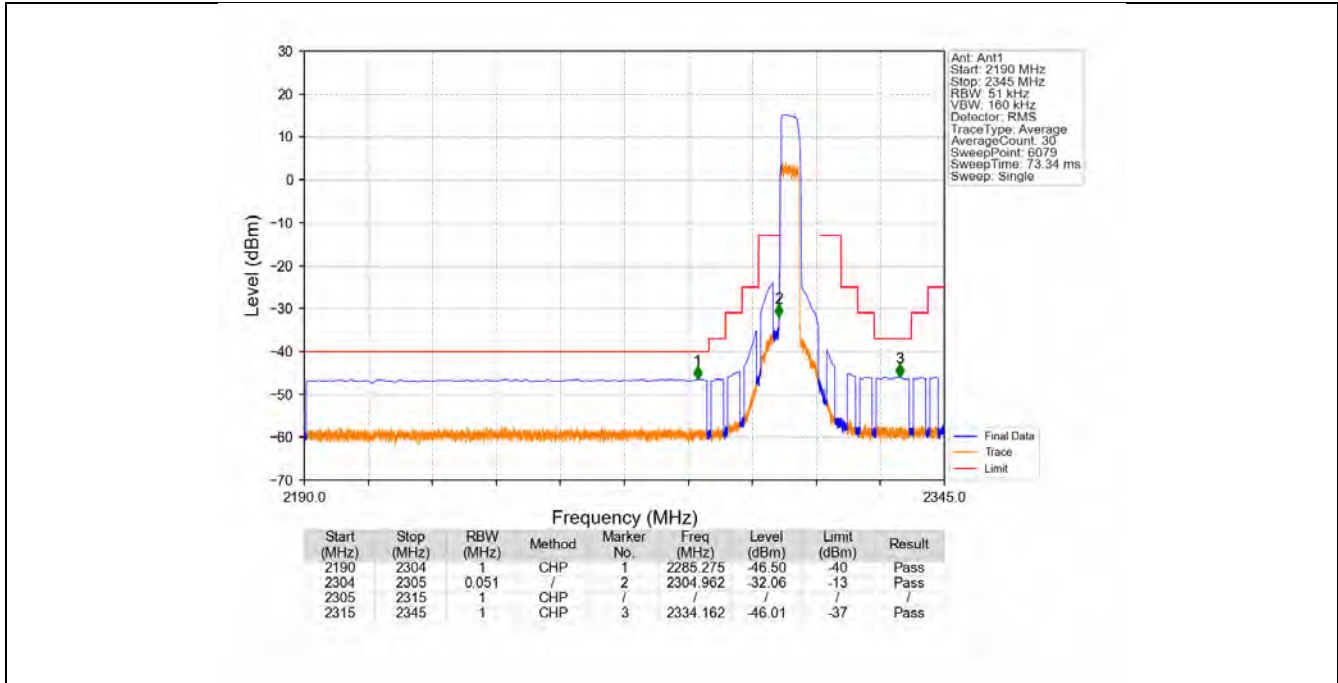


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Report No.: SZCR240100038408

Rev.: 01

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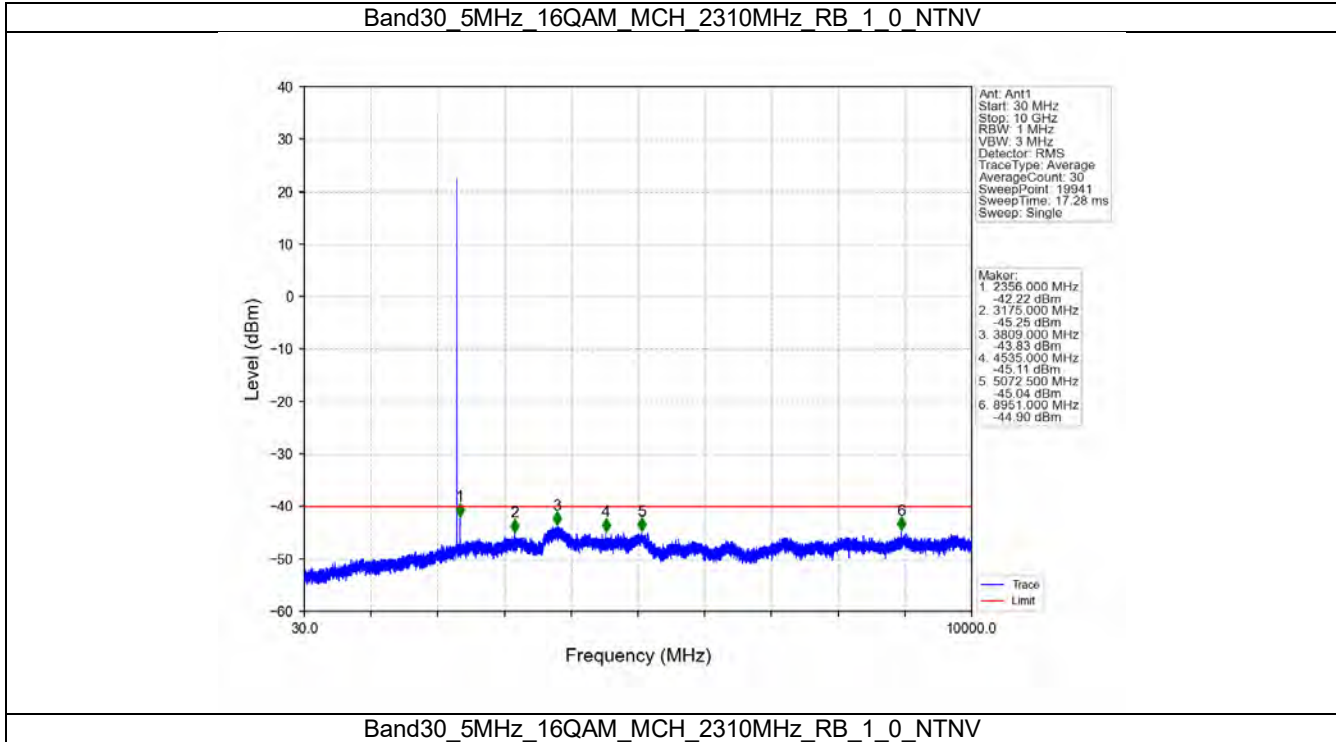


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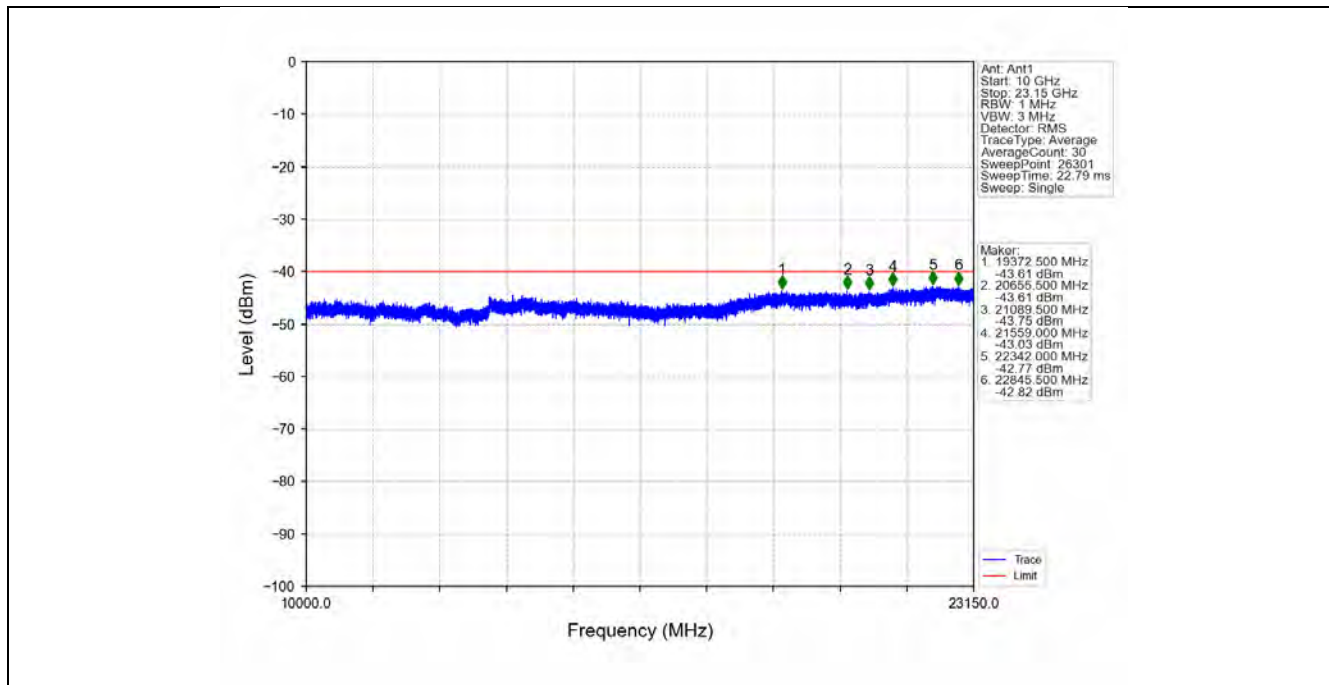
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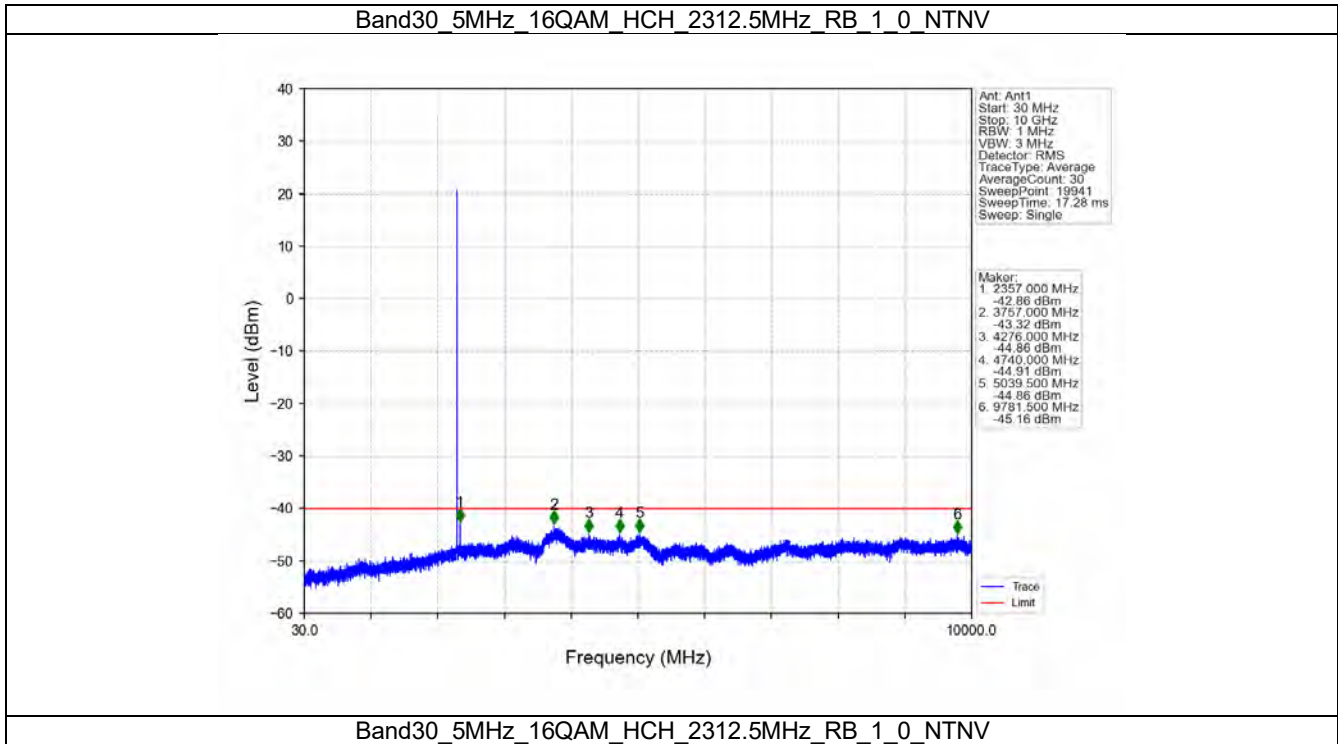


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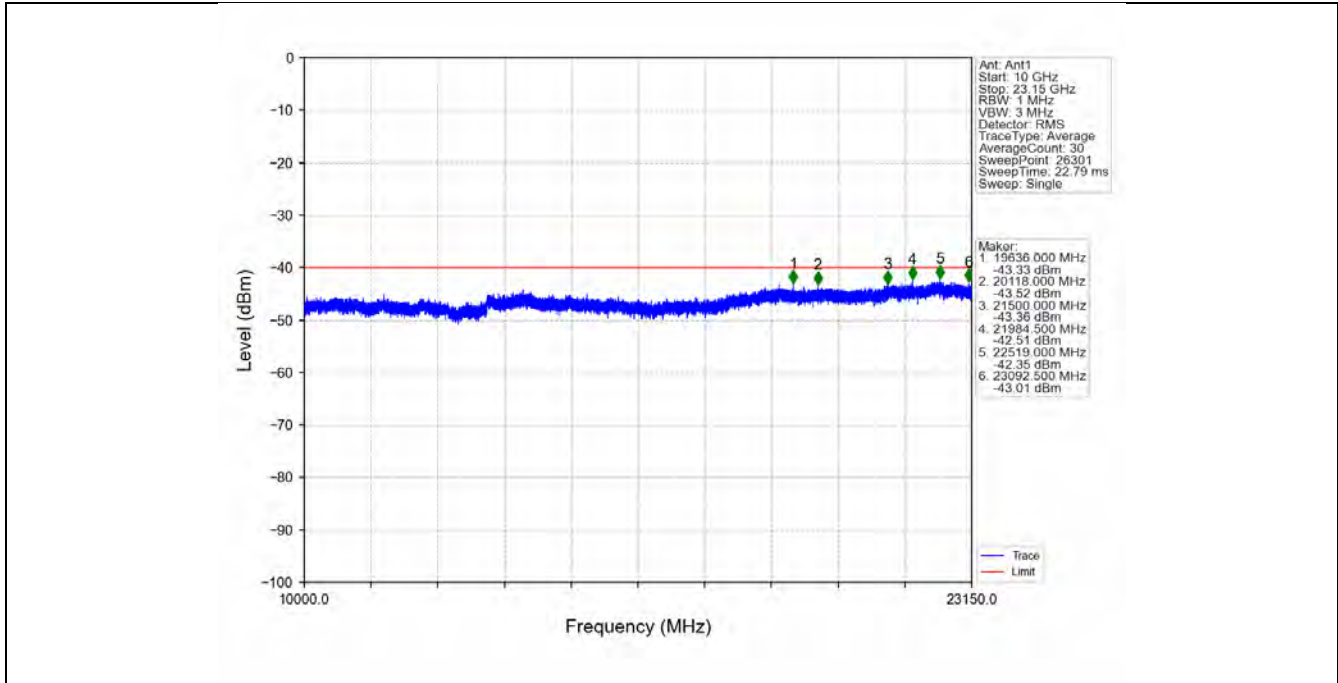


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Rev.: 01

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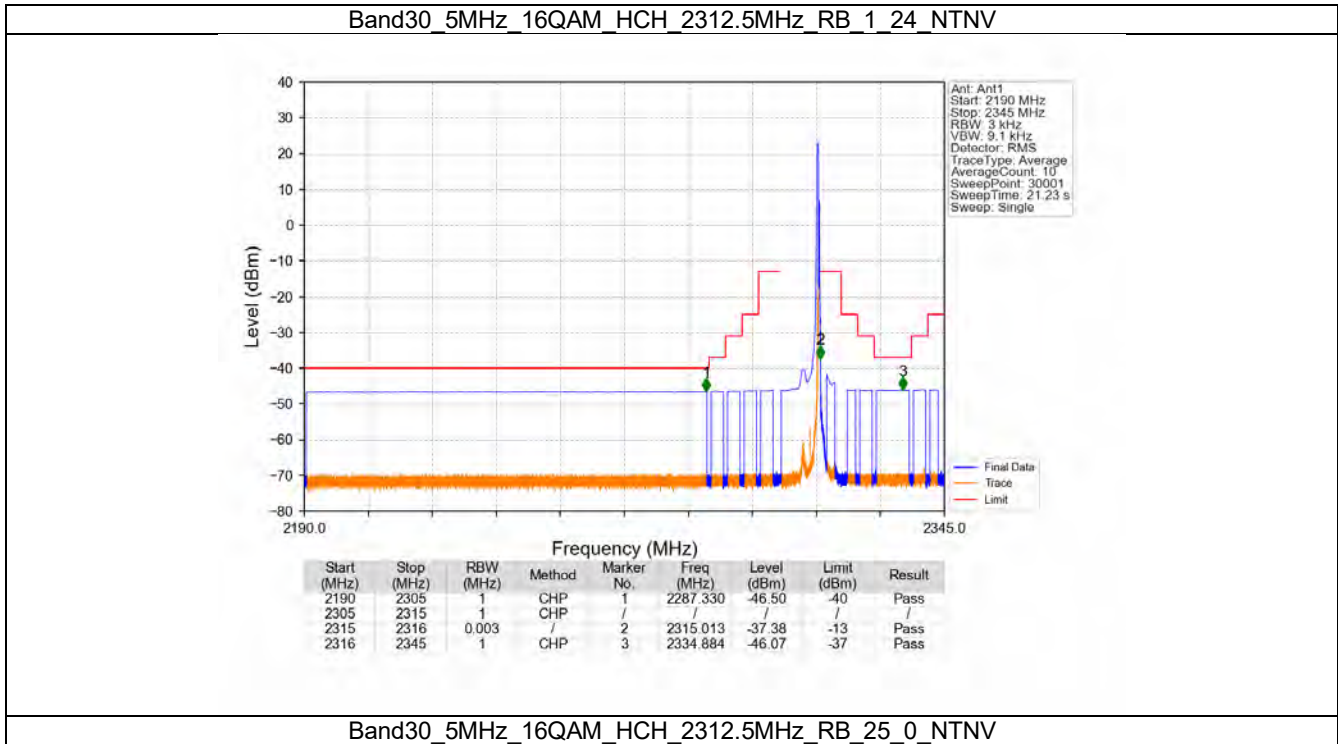


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Report No.: SZCR240100038408

Rev.: 01

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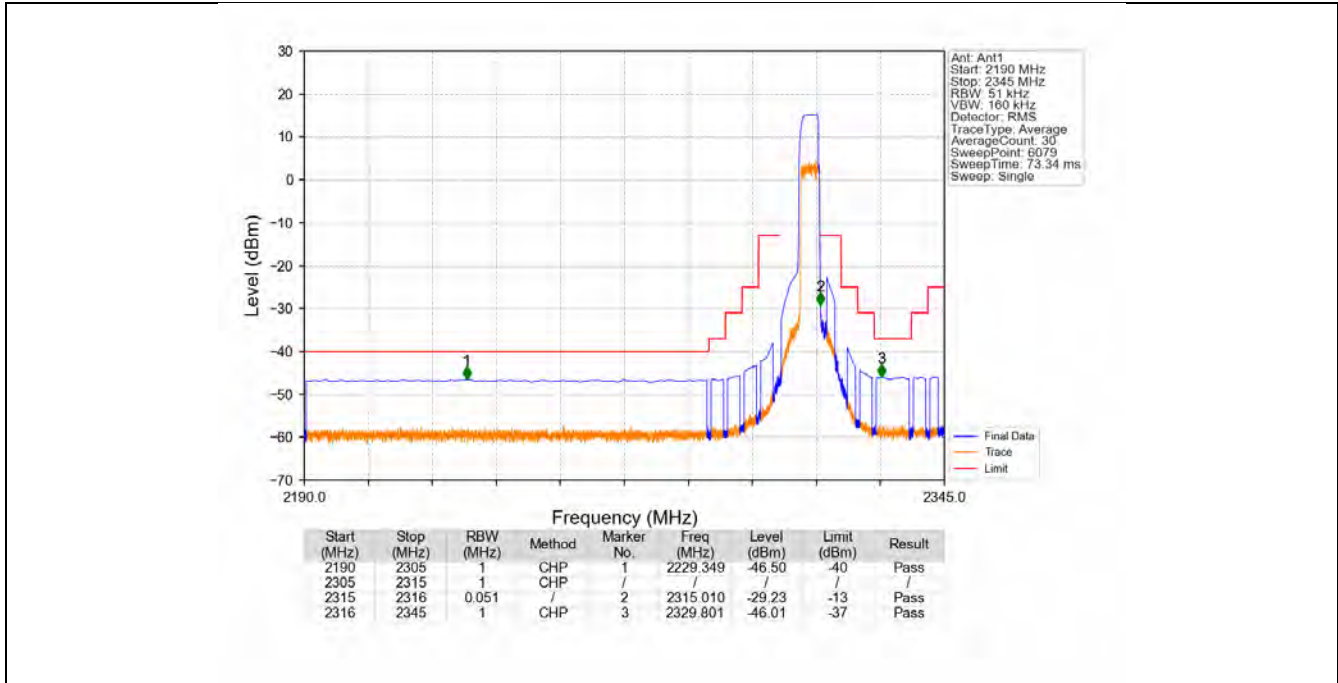


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Report No.: SZCR240100038408

Rev.: 01

Page: 85 of 159



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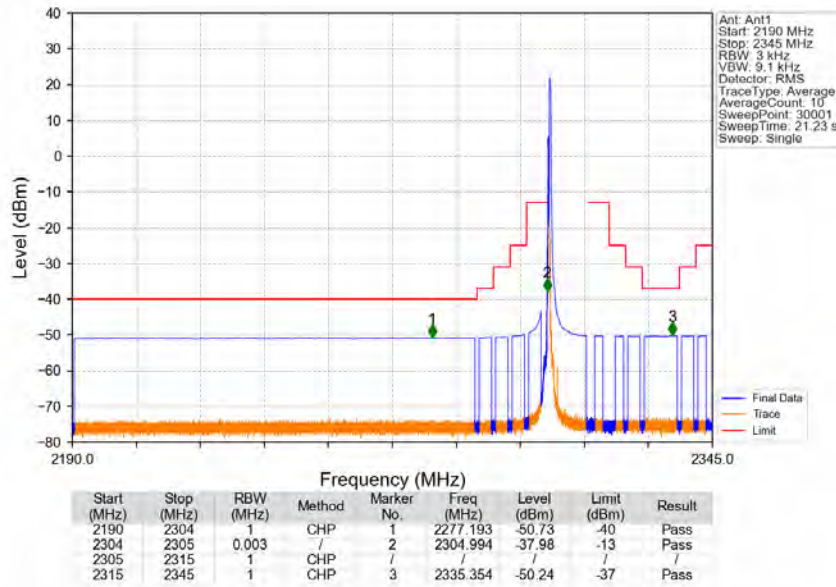
**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: SZCR240100038408

Rev.: 01

Page: 86 of 159

Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



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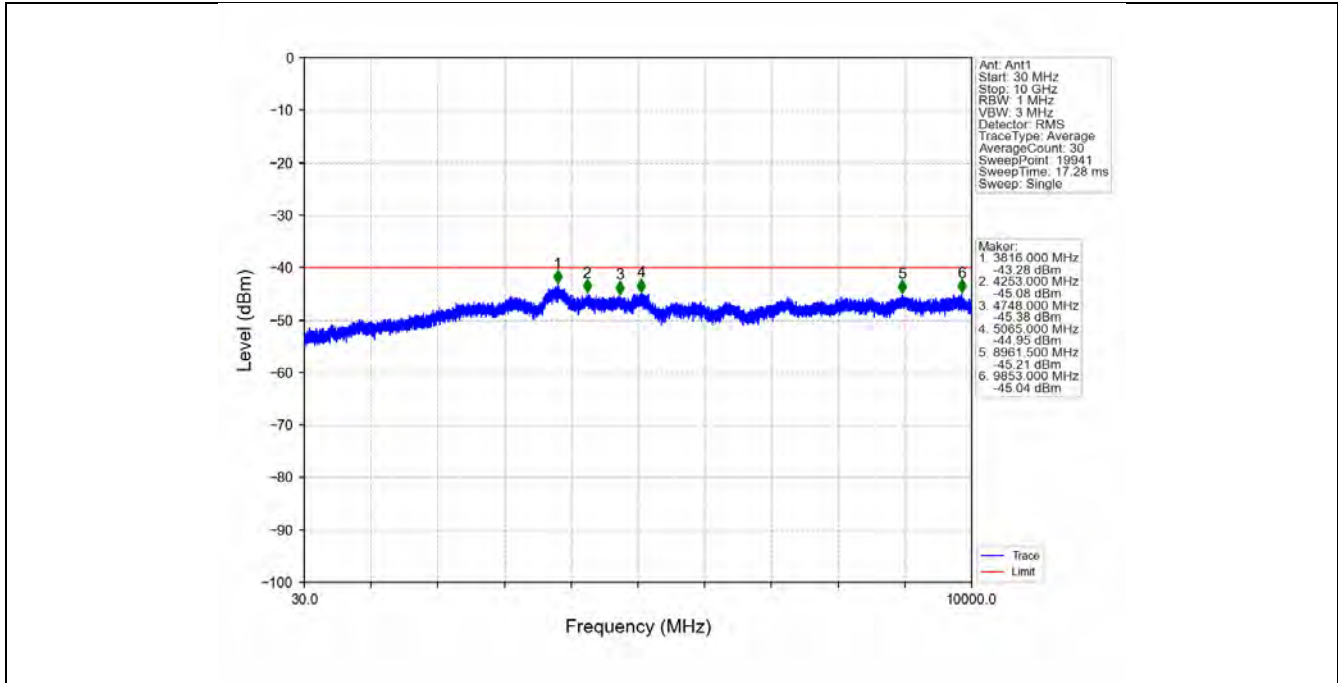


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Report No.: SZCR240100038408

Rev.: 01

Page: 87 of 159



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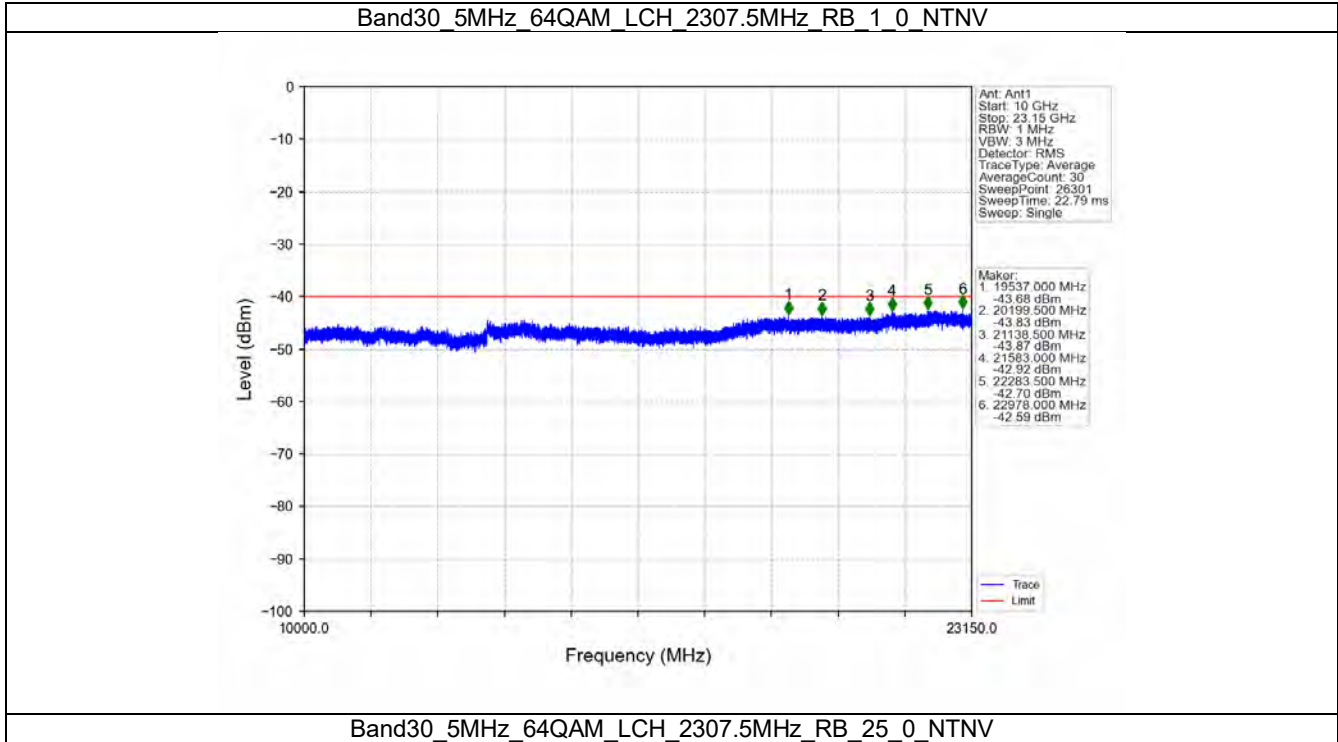


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Report No.: SZCR240100038408

Rev.: 01

Page: 88 of 159



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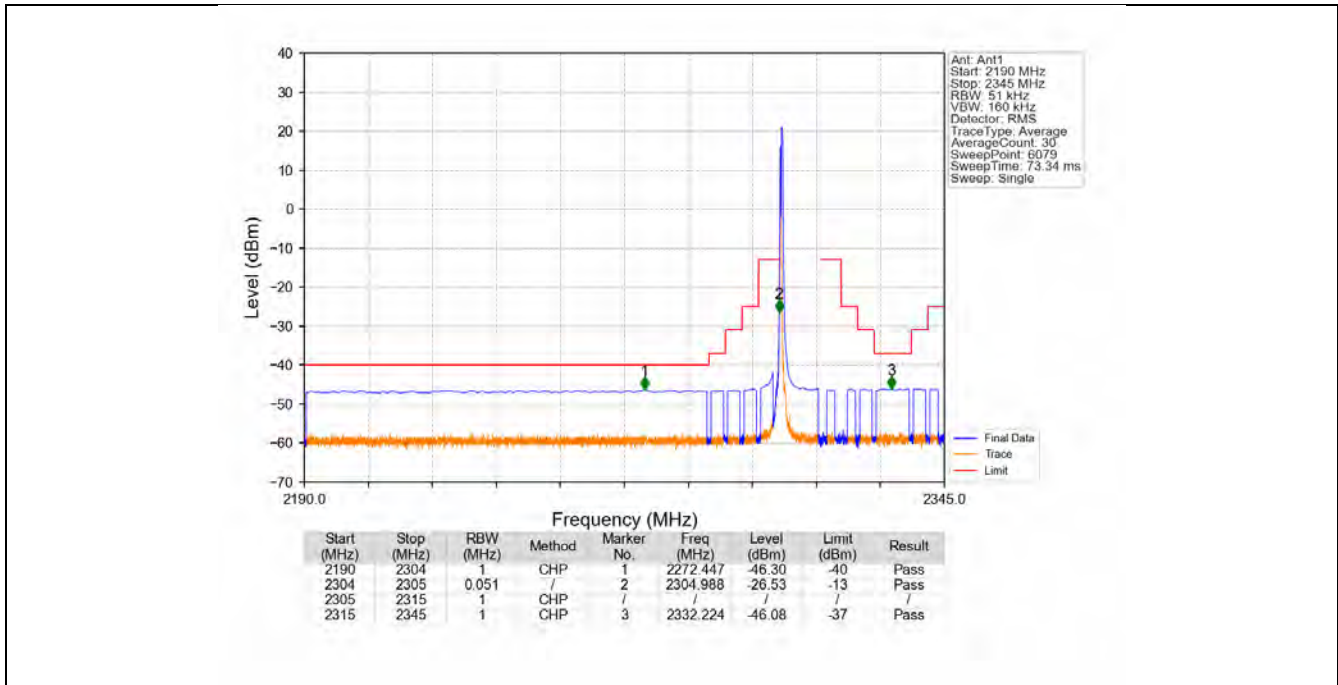


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Report No.: SZCR240100038408

Rev.: 01

Page: 89 of 159



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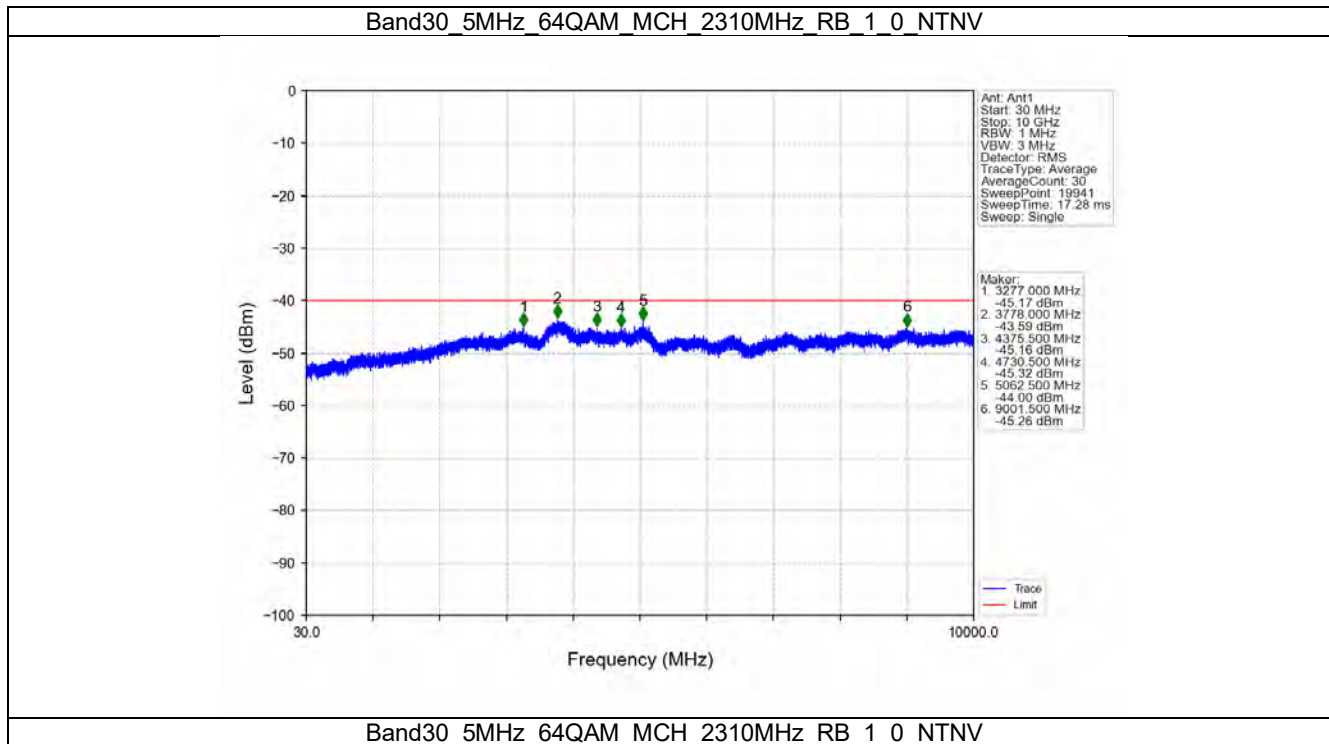
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Report No.: SZCR240100038408
Rev.: 01
Page: 90 of 159



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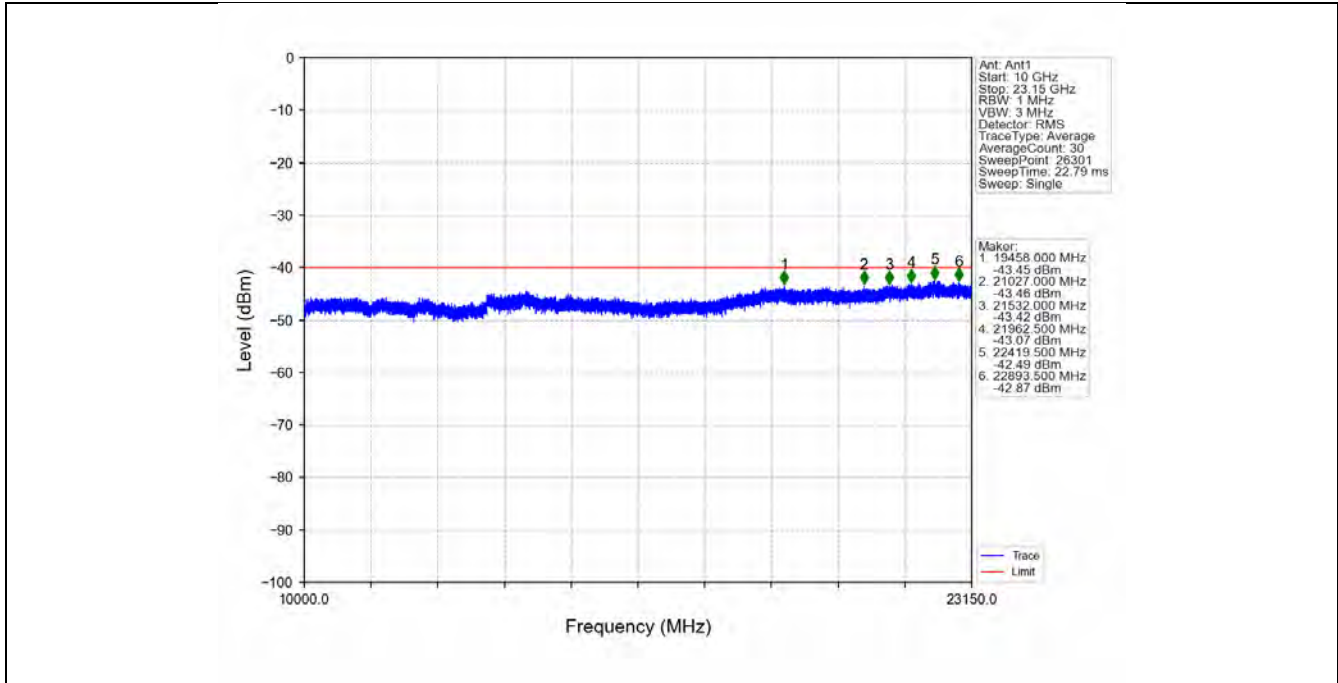


**SGS-CSTC Standards Technical Services Co., Ltd.
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Report No.: SZCR240100038408

Rev.: 01

Page: 91 of 159



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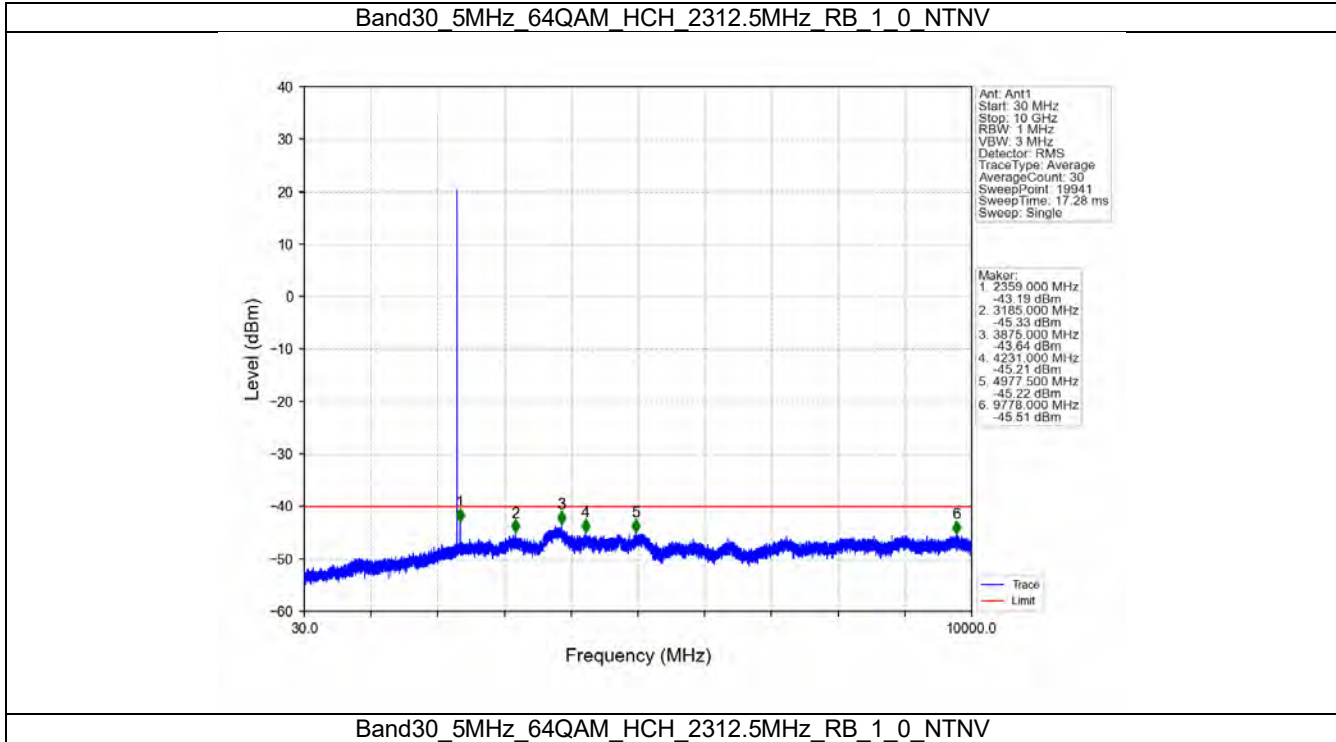


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Report No.: SZCR240100038408

Rev.: 01

Page: 92 of 159



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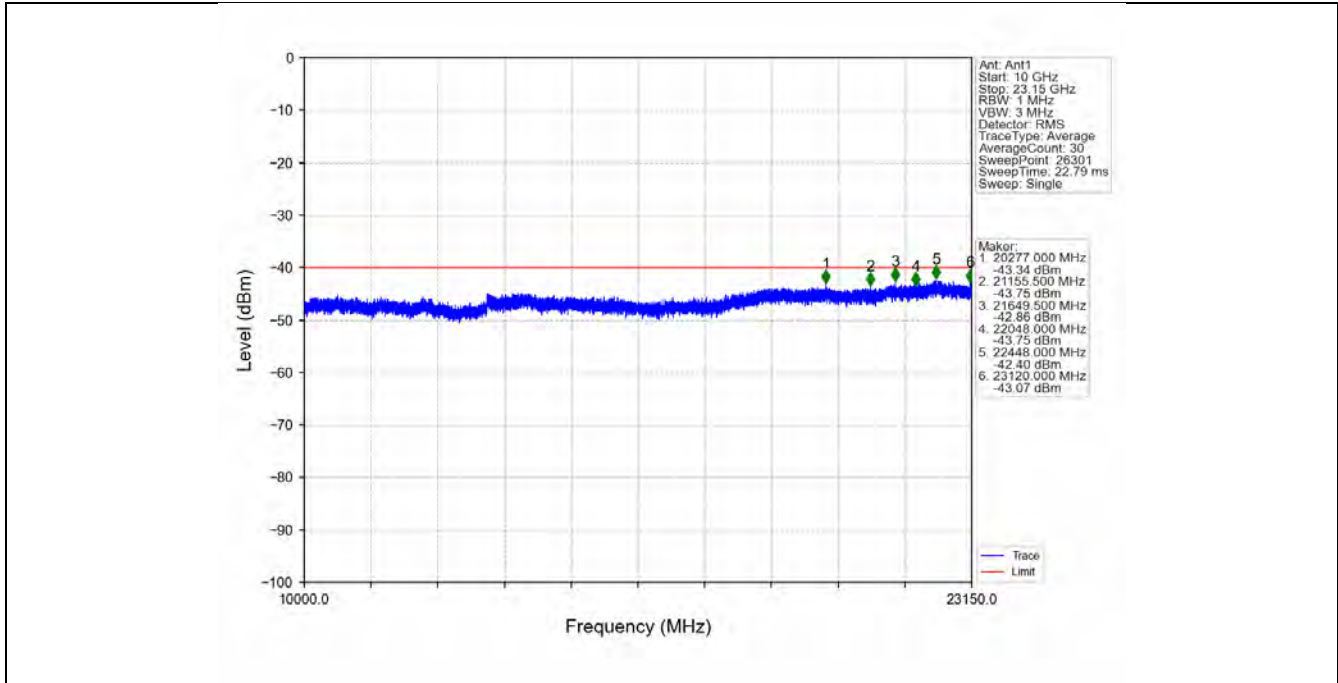


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Report No.: SZCR240100038408

Rev.: 01

Page: 93 of 159



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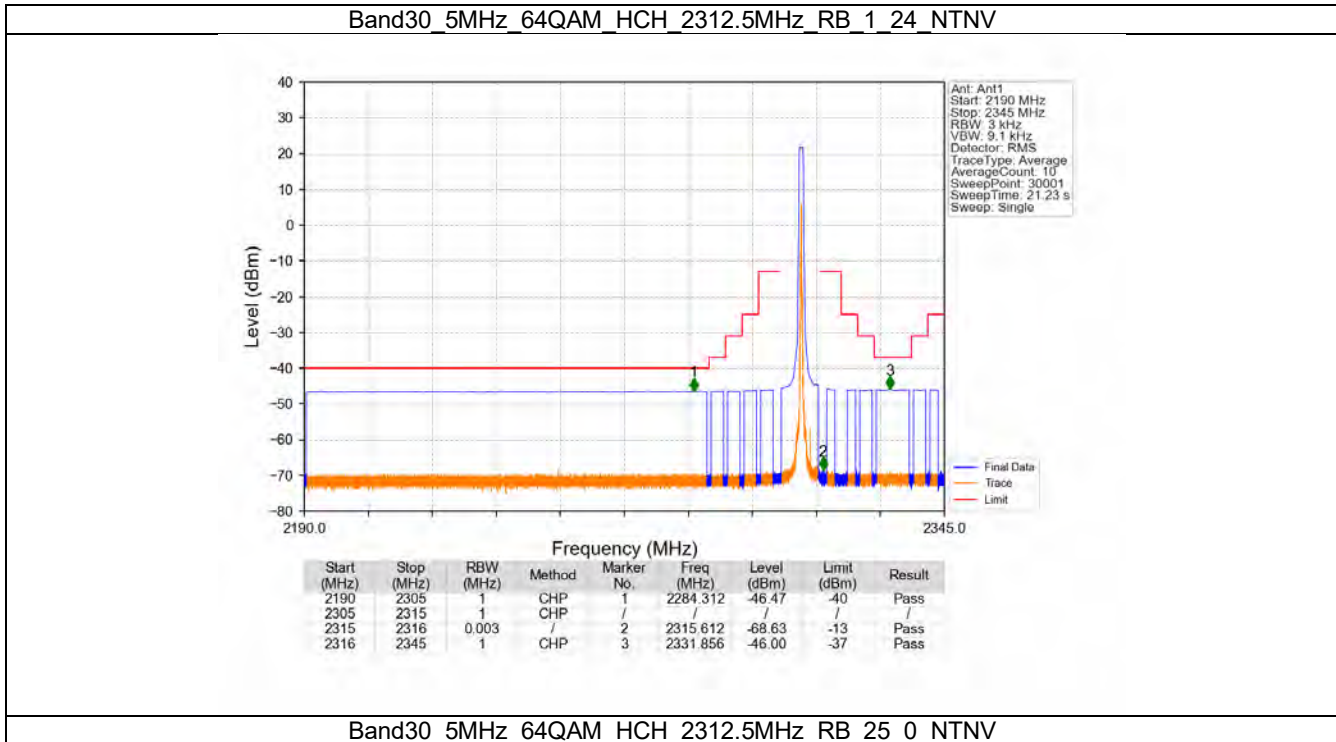


**SGS-CSTC Standards Technical Services Co., Ltd.
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Report No.: SZCR240100038408

Rev.: 01

Page: 94 of 159



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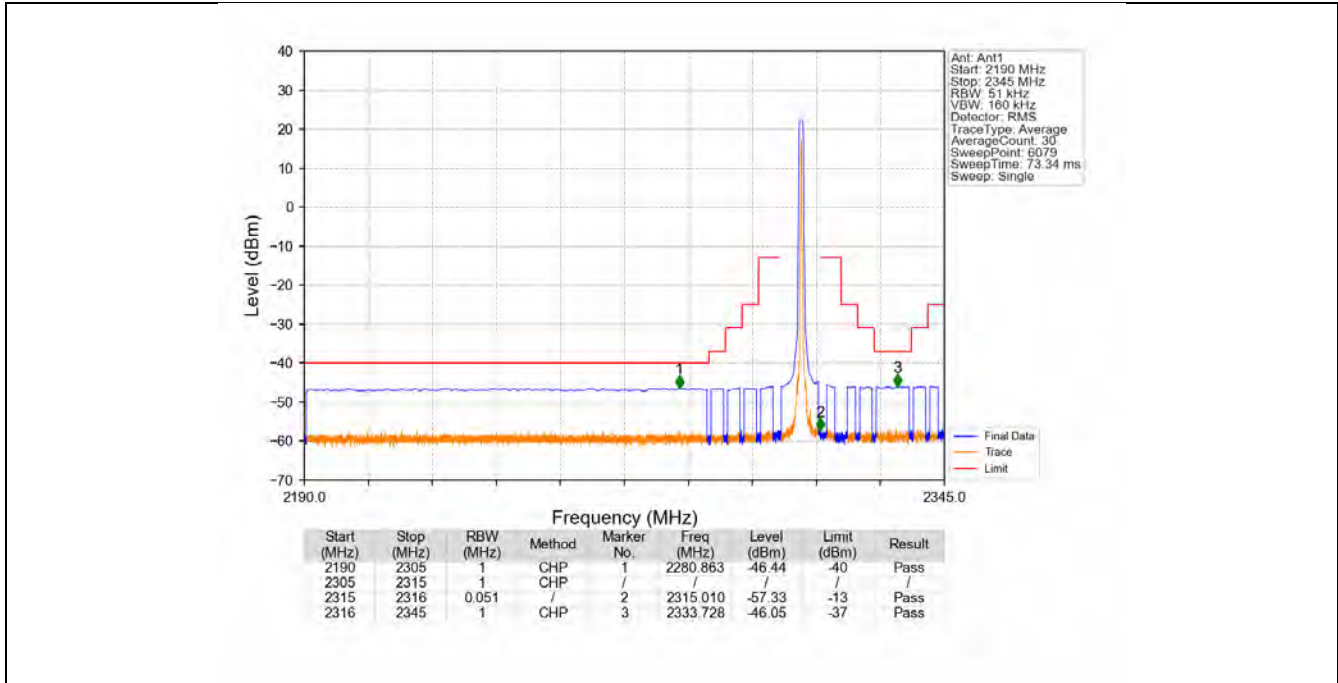


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Report No.: SZCR240100038408

Rev.: 01

Page: 95 of 159



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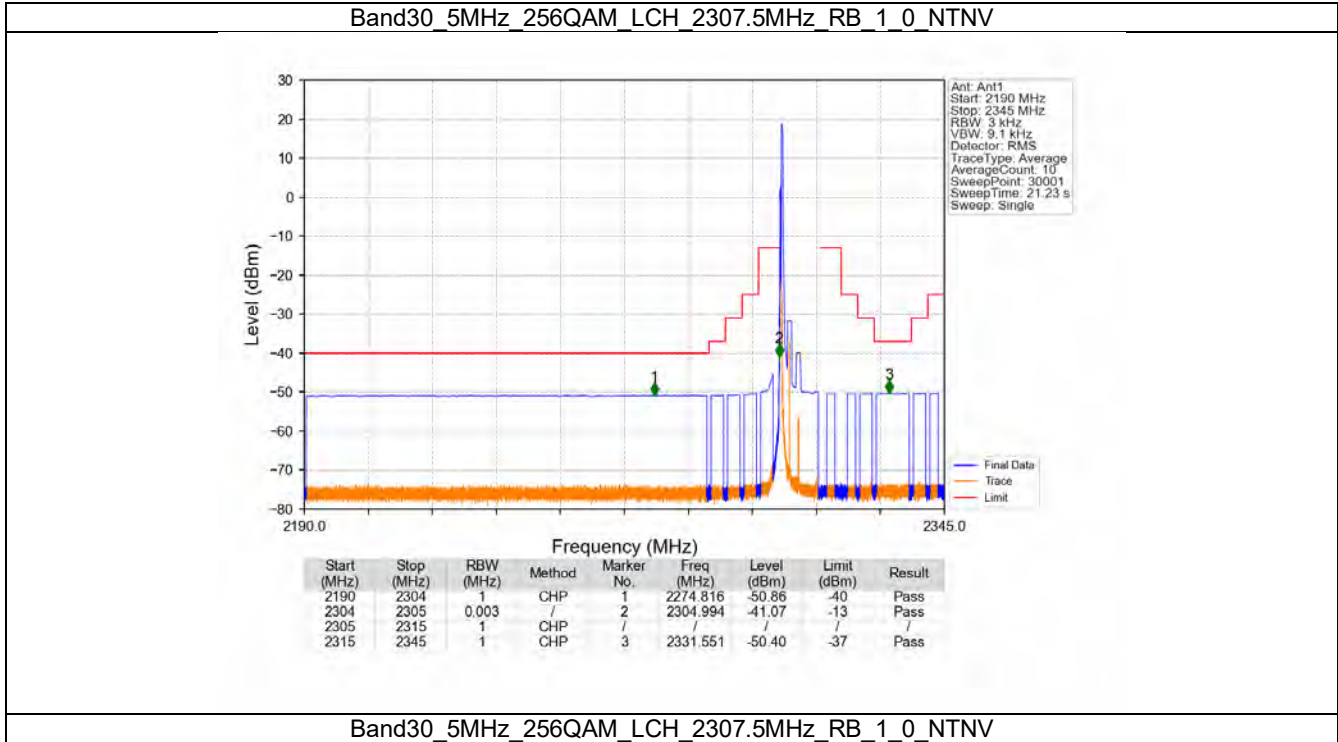


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Report No.: SZCR240100038408

Rev.: 01

Page: 96 of 159



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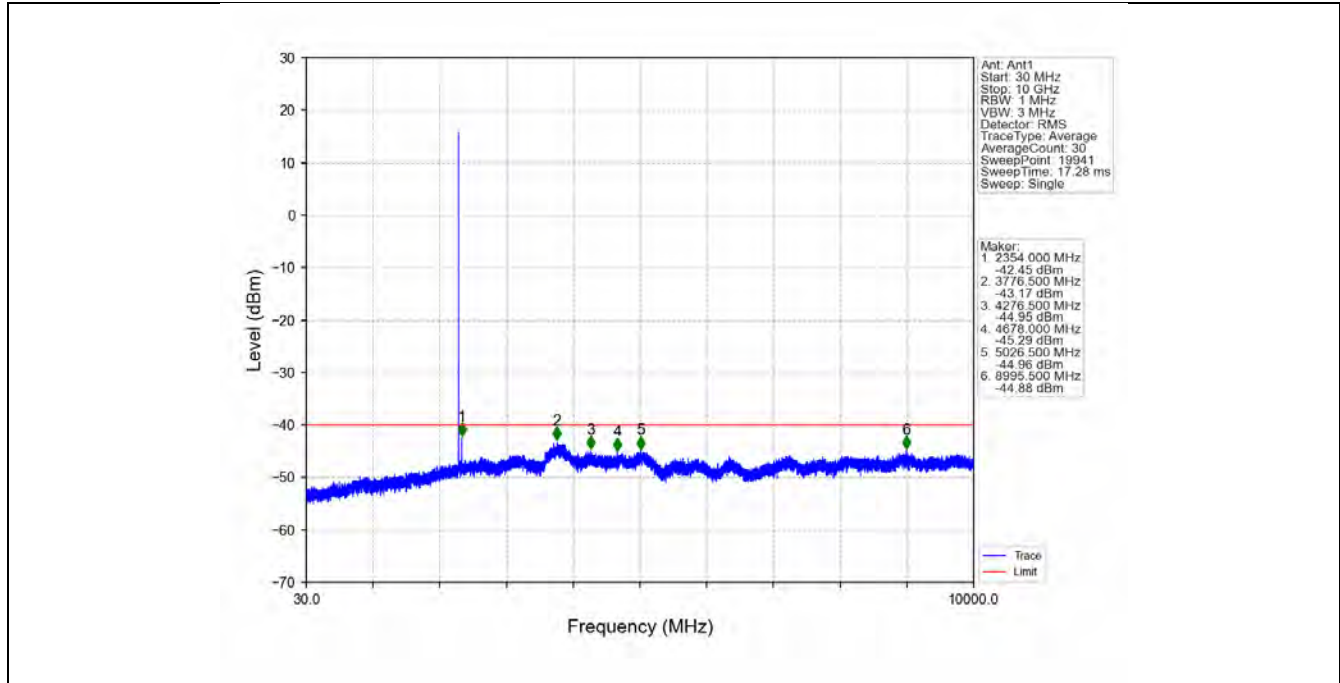


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Report No.: SZCR240100038408

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Page: 97 of 159



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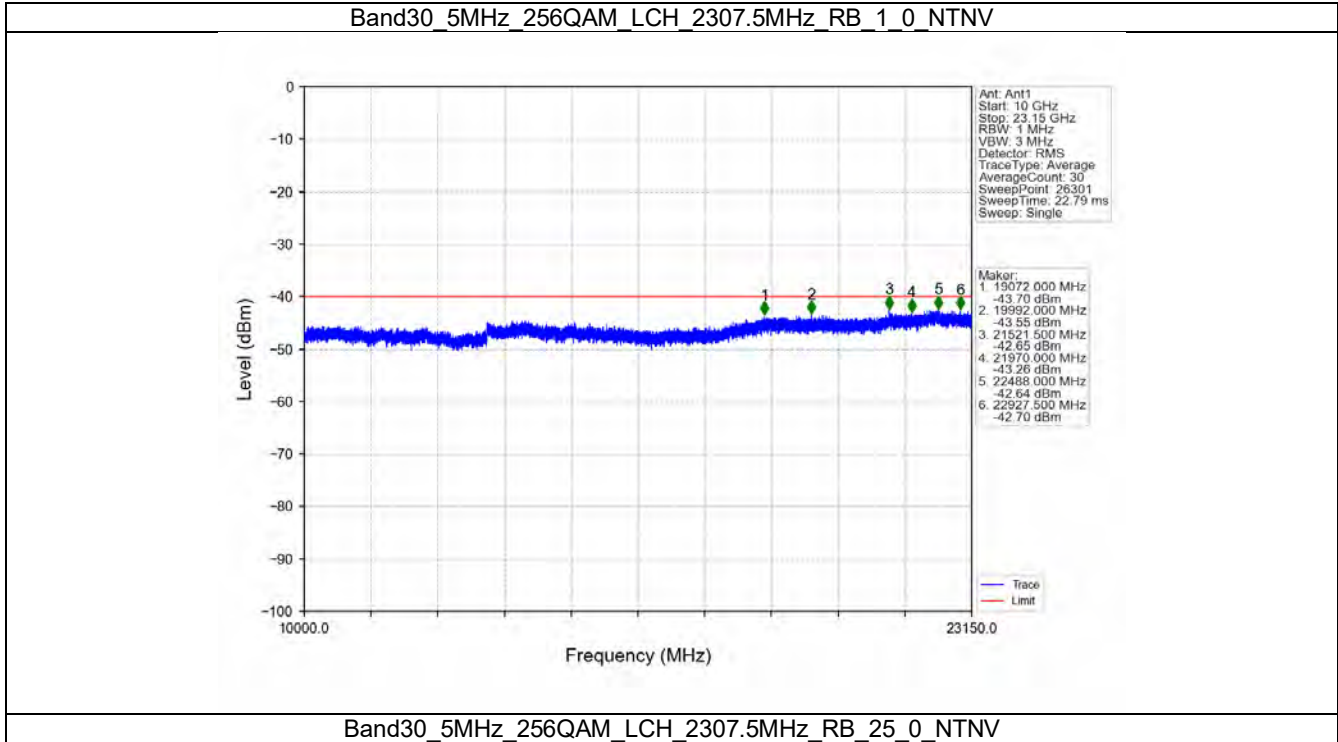


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Report No.: SZCR240100038408

Rev.: 01

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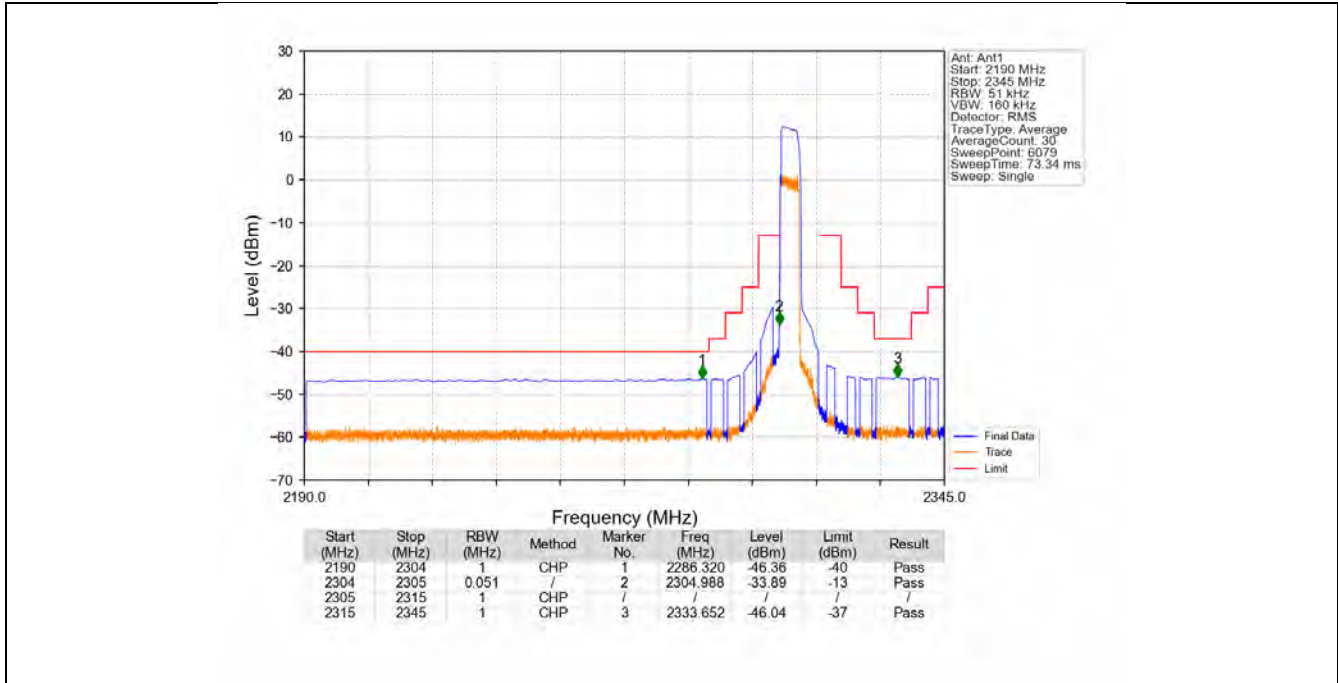


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Report No.: SZCR240100038408

Rev.: 01

Page: 99 of 159



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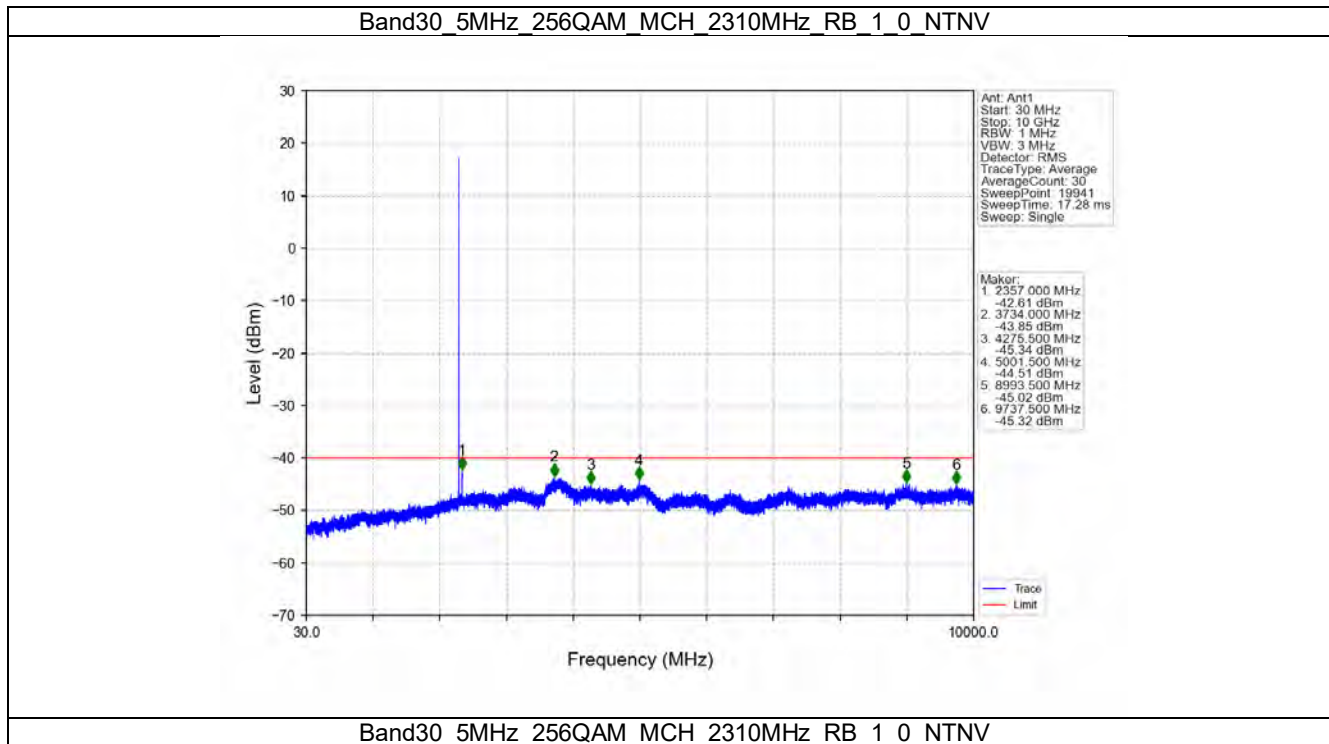
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Report No.: SZCR240100038408
Rev.: 01
Page: 100 of 159



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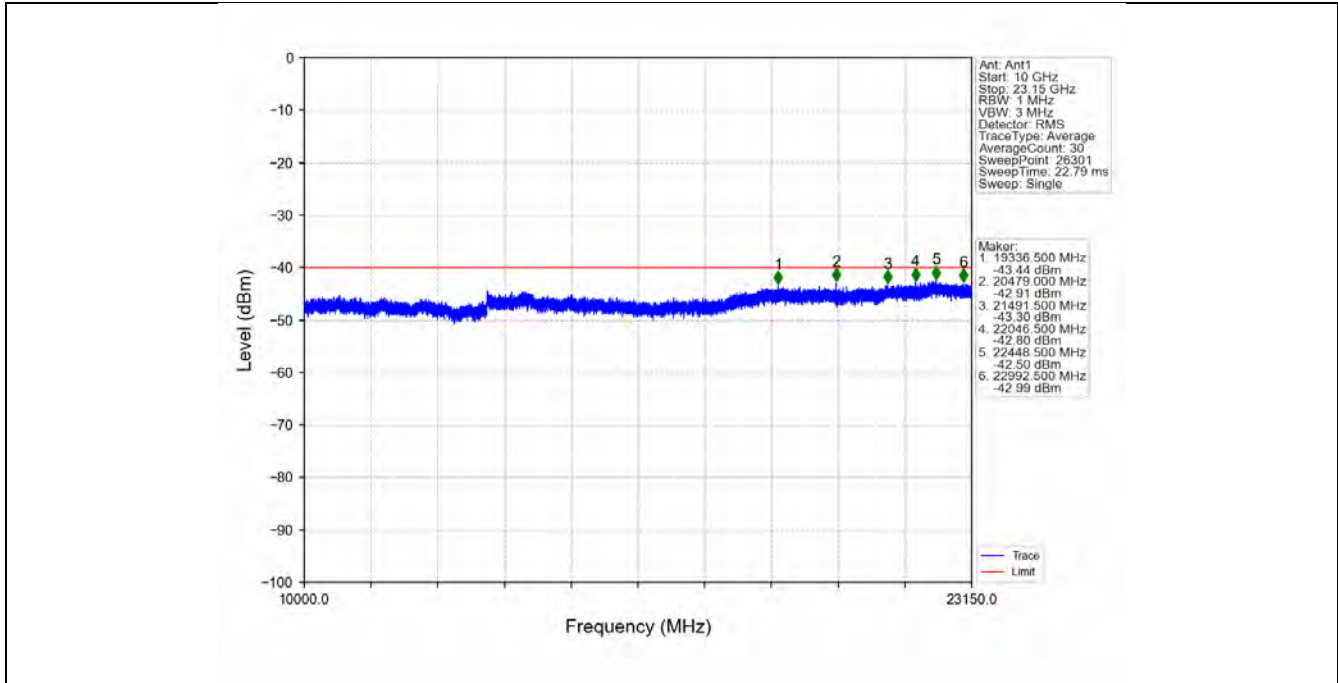


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Report No.: SZCR240100038408

Rev.: 01

Page: 101 of 159



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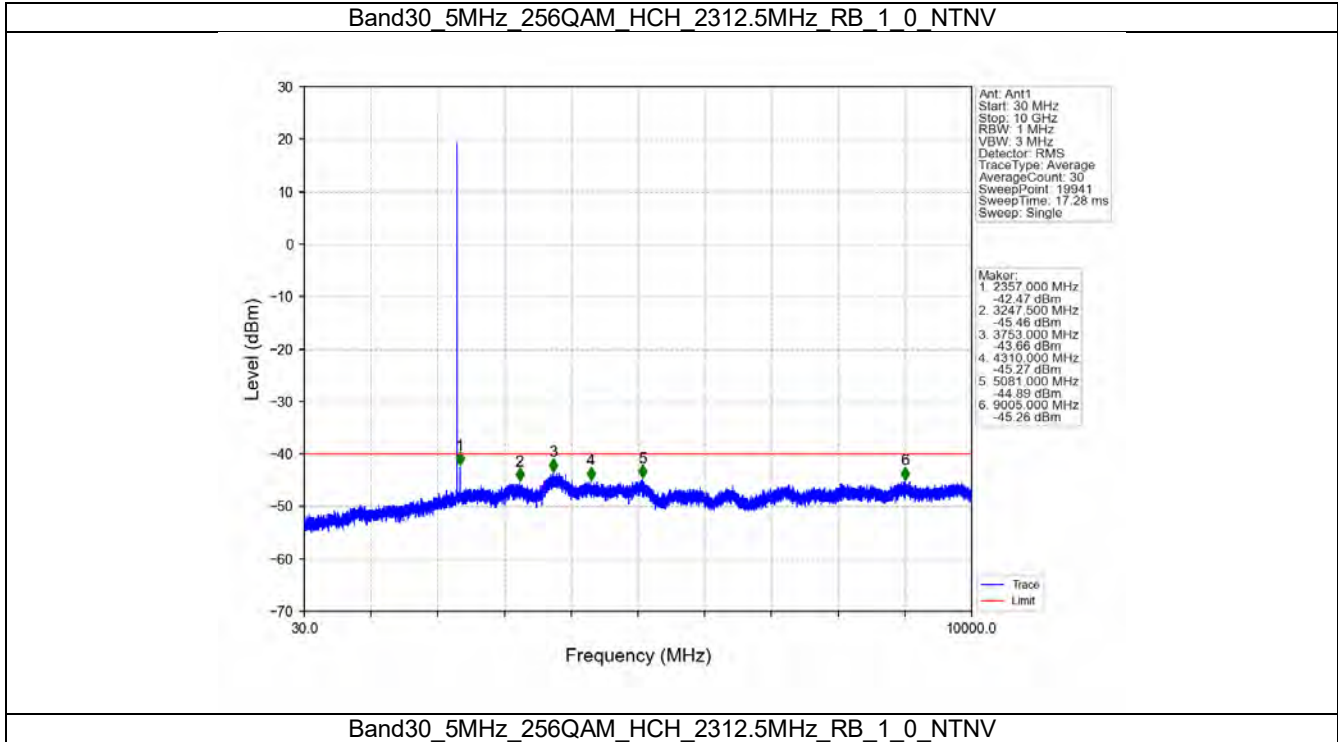


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Report No.: SZCR240100038408

Rev.: 01

Page: 102 of 159



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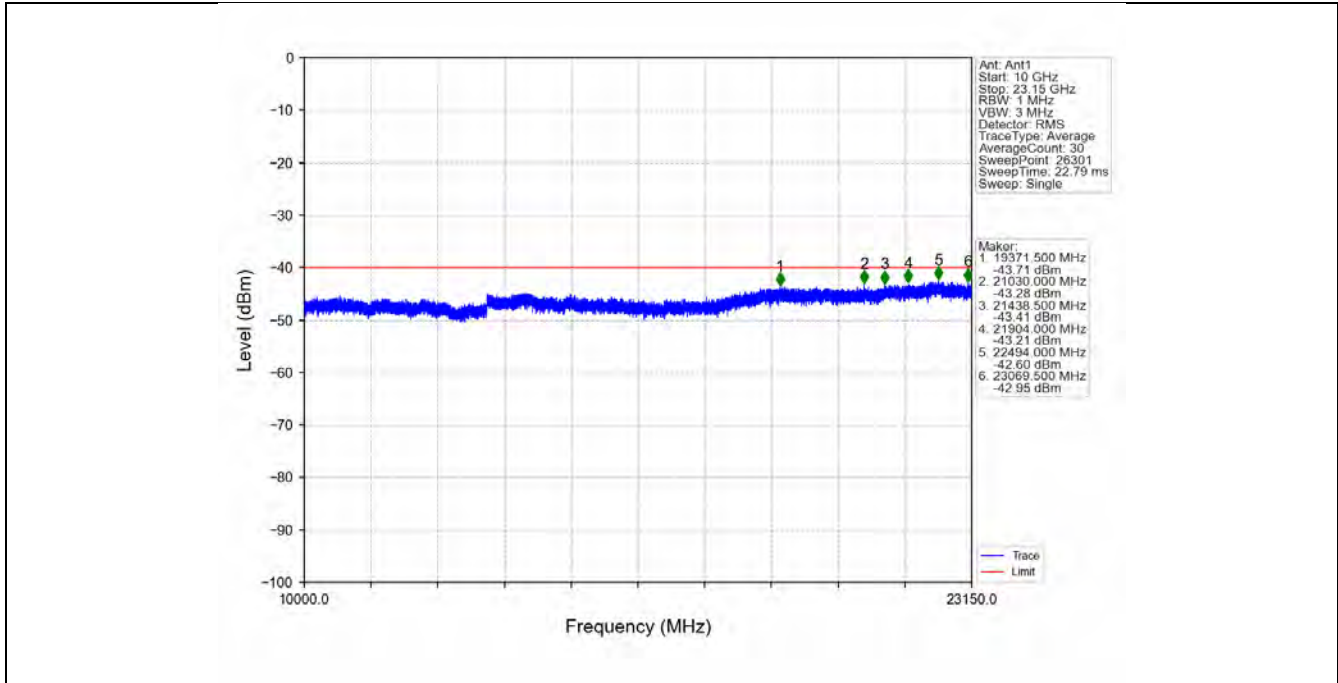


**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: SZCR240100038408

Rev.: 01

Page: 103 of 159



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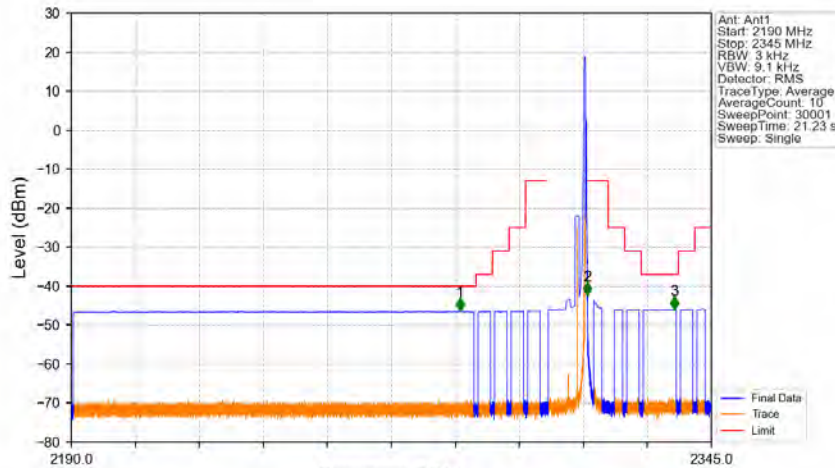
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Report No.: SZCR240100038408

Rev.: 01

Page: 104 of 159

Band30_5MHz_256QAM_HCH_2312.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	CHP	1	2284.095	-46.45	-40	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	2	2315.002	-42.37	-13	Pass
2316	2345	1	CHP	3	2336.098	-46.10	-37	Pass

Band30_5MHz_256QAM_HCH_2312.5MHz_RB_25_0_NTNV



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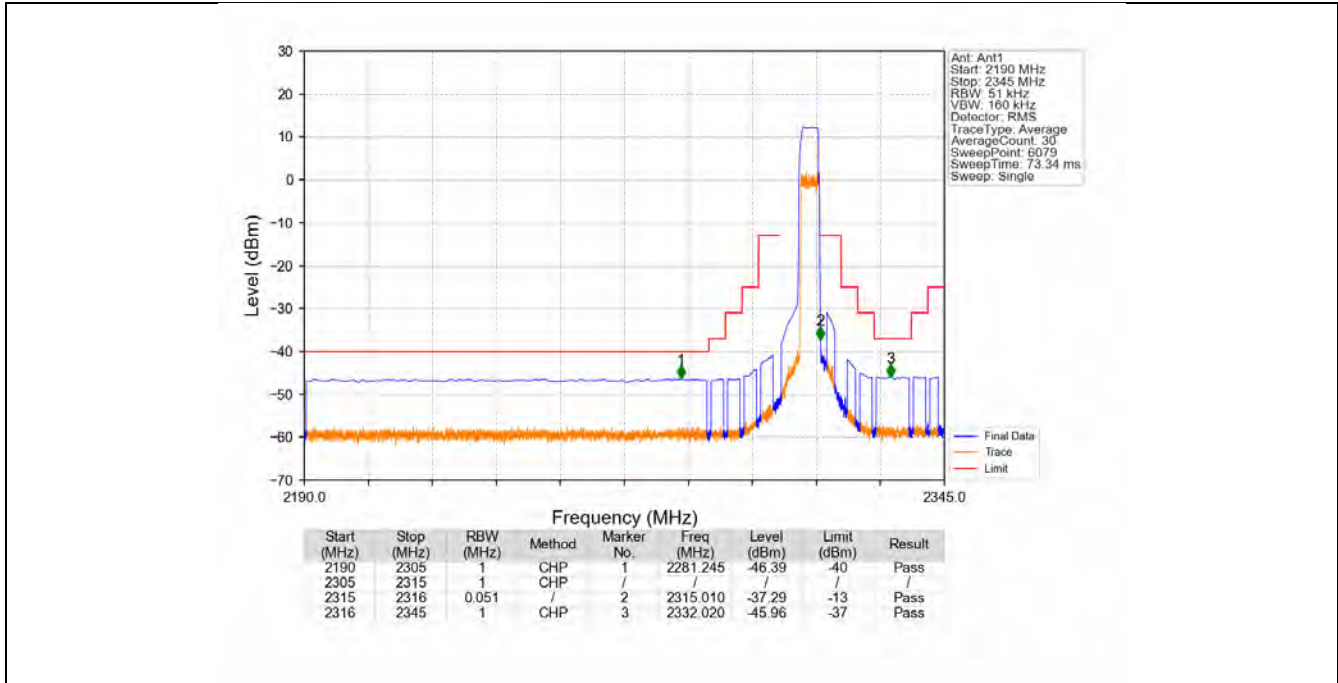


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Report No.: SZCR240100038408

Rev.: 01

Page: 105 of 159



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038408
Rev.: 01
Page: 106 of 159

5.2 B30_10MHz

5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
256QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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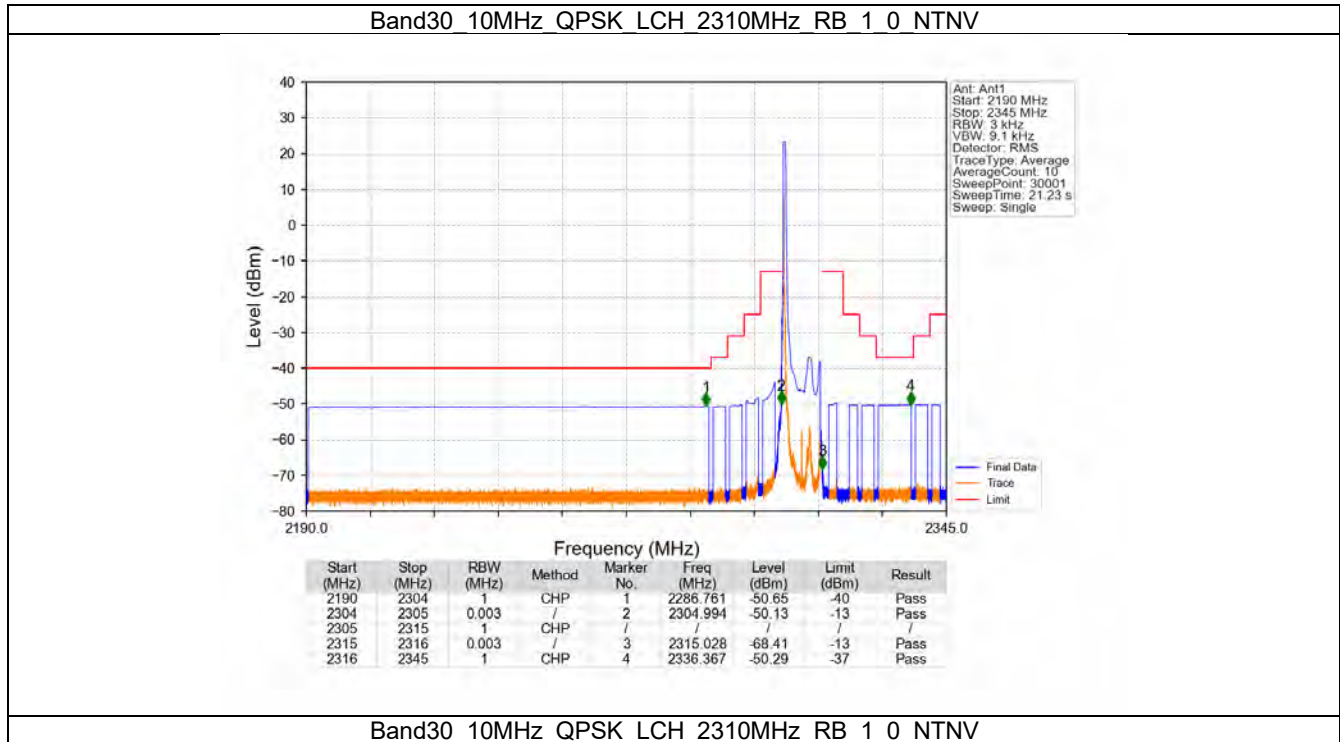
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Report No.: SZCR240100038408

Rev.: 01

Page: 107 of 159

5.2.2 Test Graph



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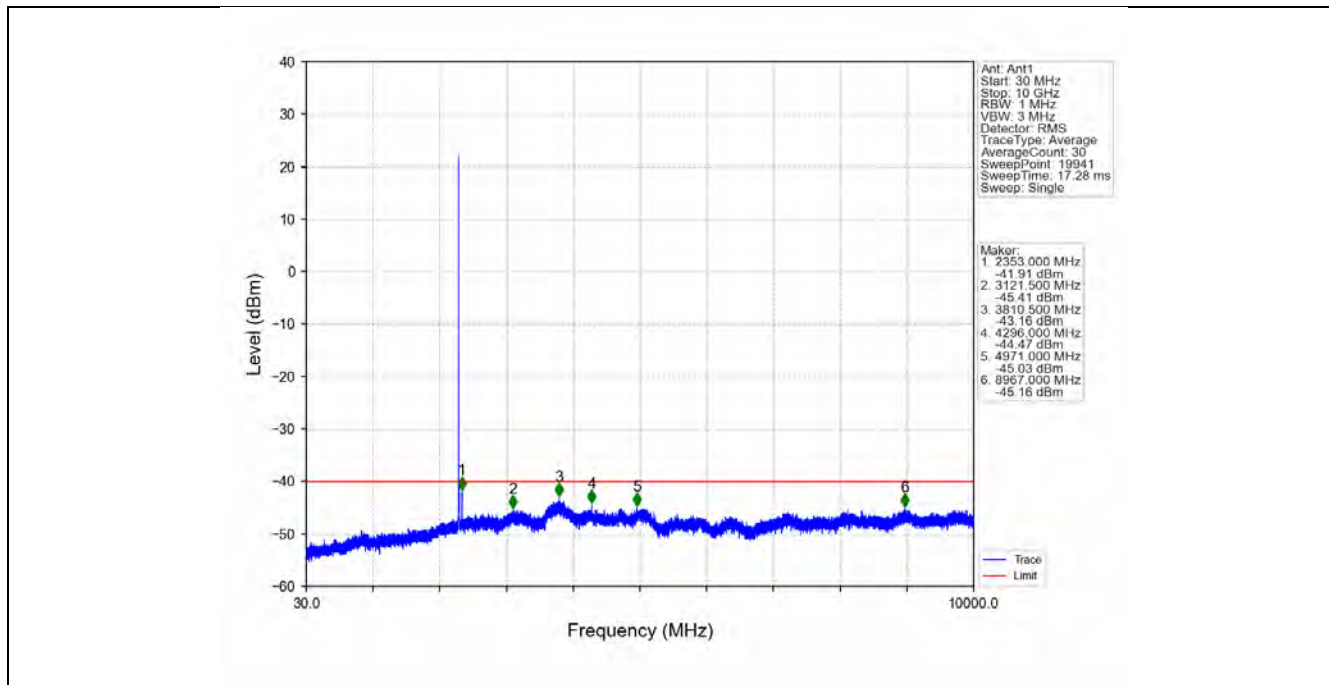
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Report No.: SZCR240100038408
Rev.: 01
Page: 108 of 159



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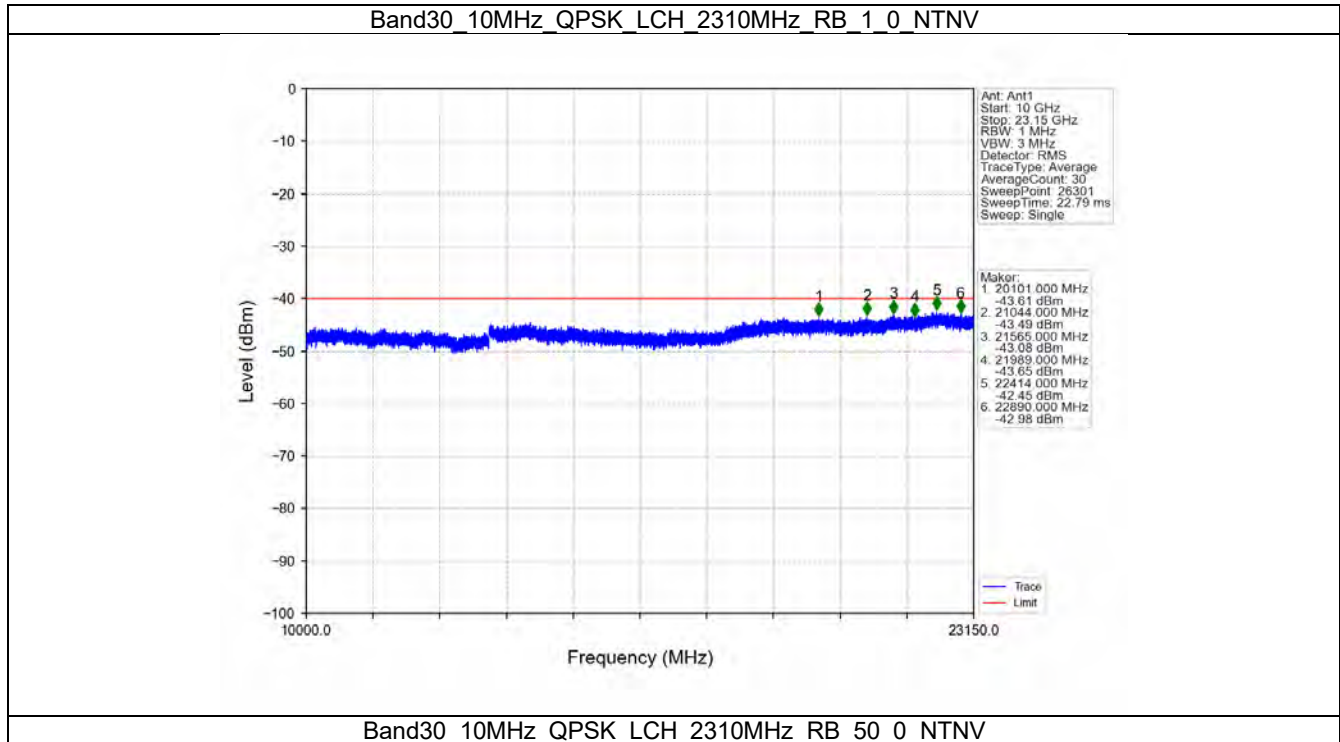


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Rev.: 01

Page: 109 of 159



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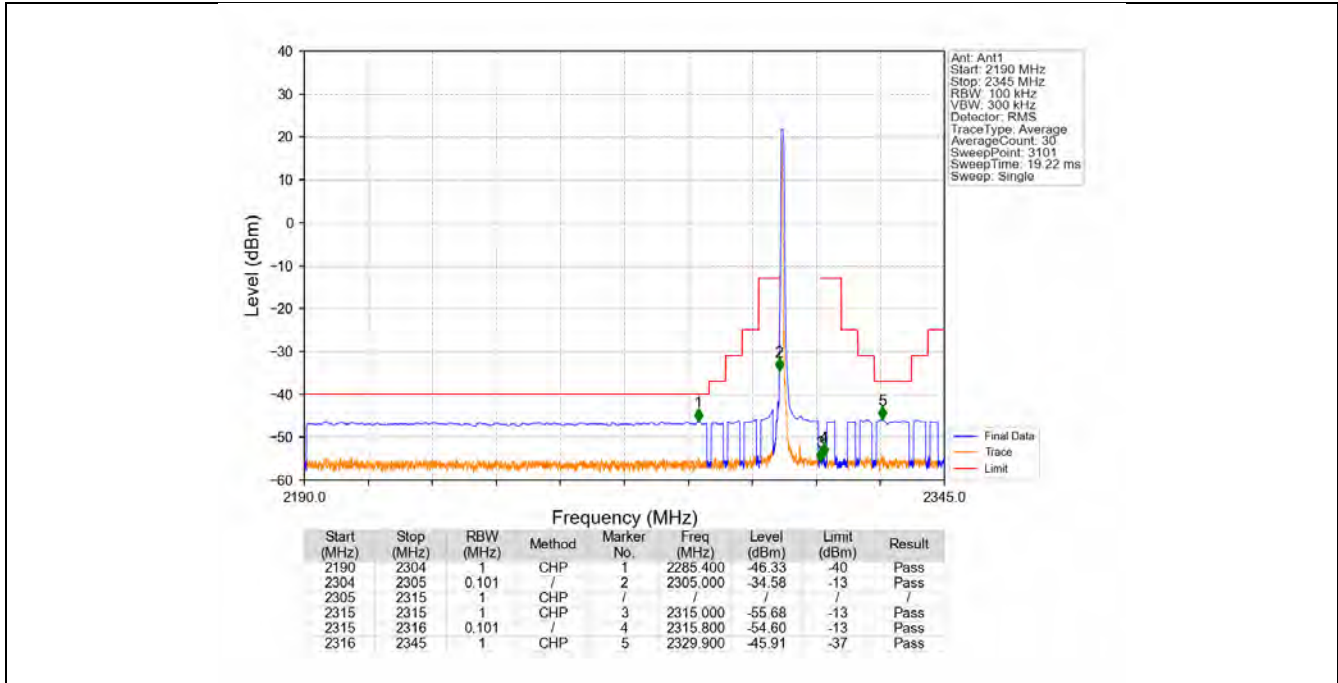


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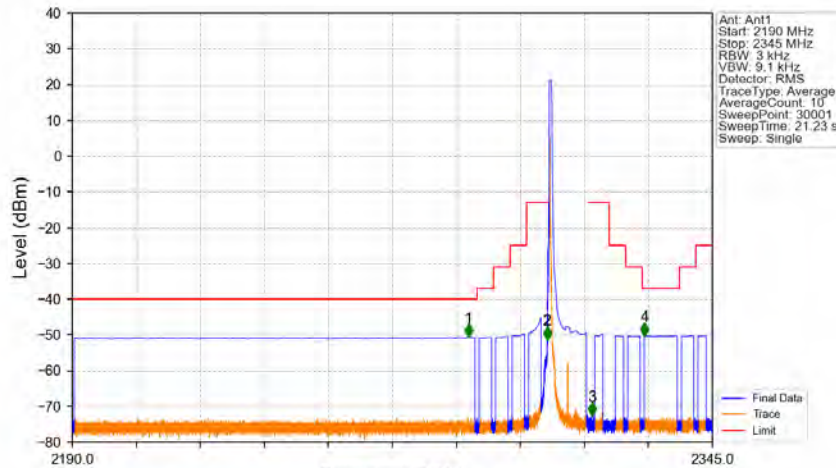
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Report No.: SZCR240100038408

Rev.: 01

Page: 111 of 159

Band30_10MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2286.012	-50.68	-40	Pass
2304	2305	0.003	/	2	2304.994	-51.35	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.782	-72.64	-13	Pass
2316	2345	1	CHP	4	2328.565	-50.30	-37	Pass

Band30_10MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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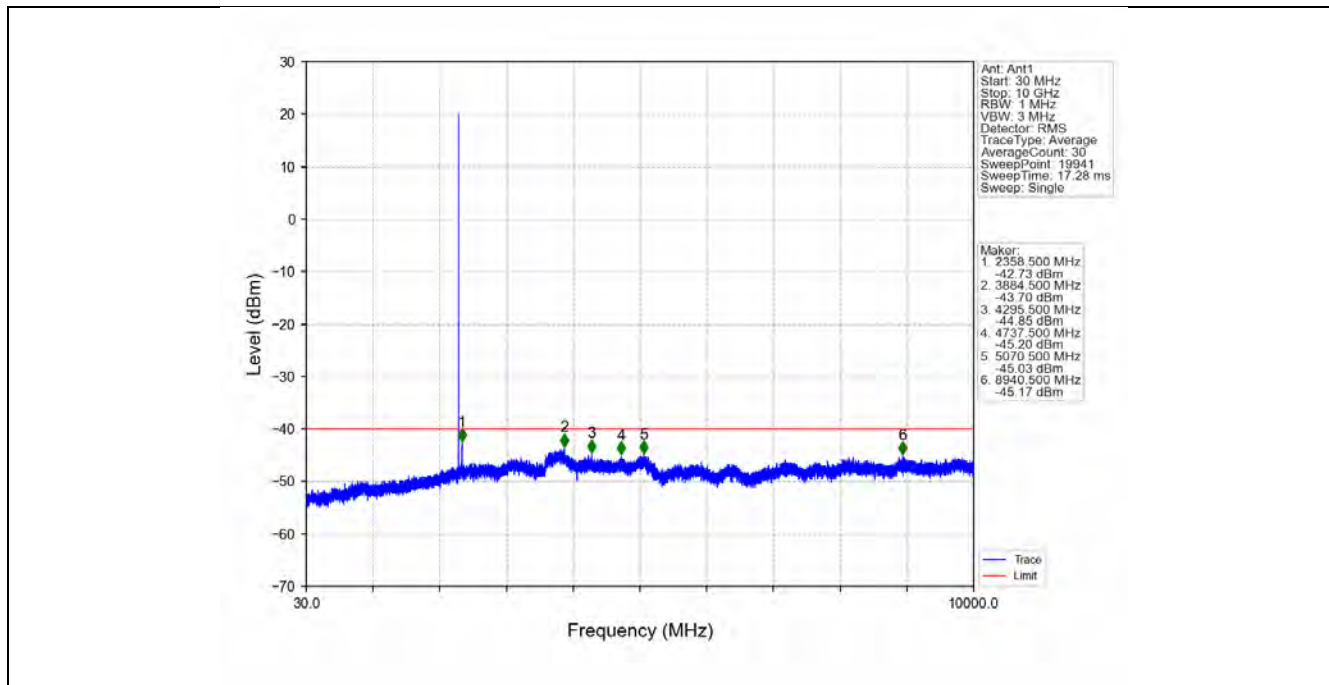
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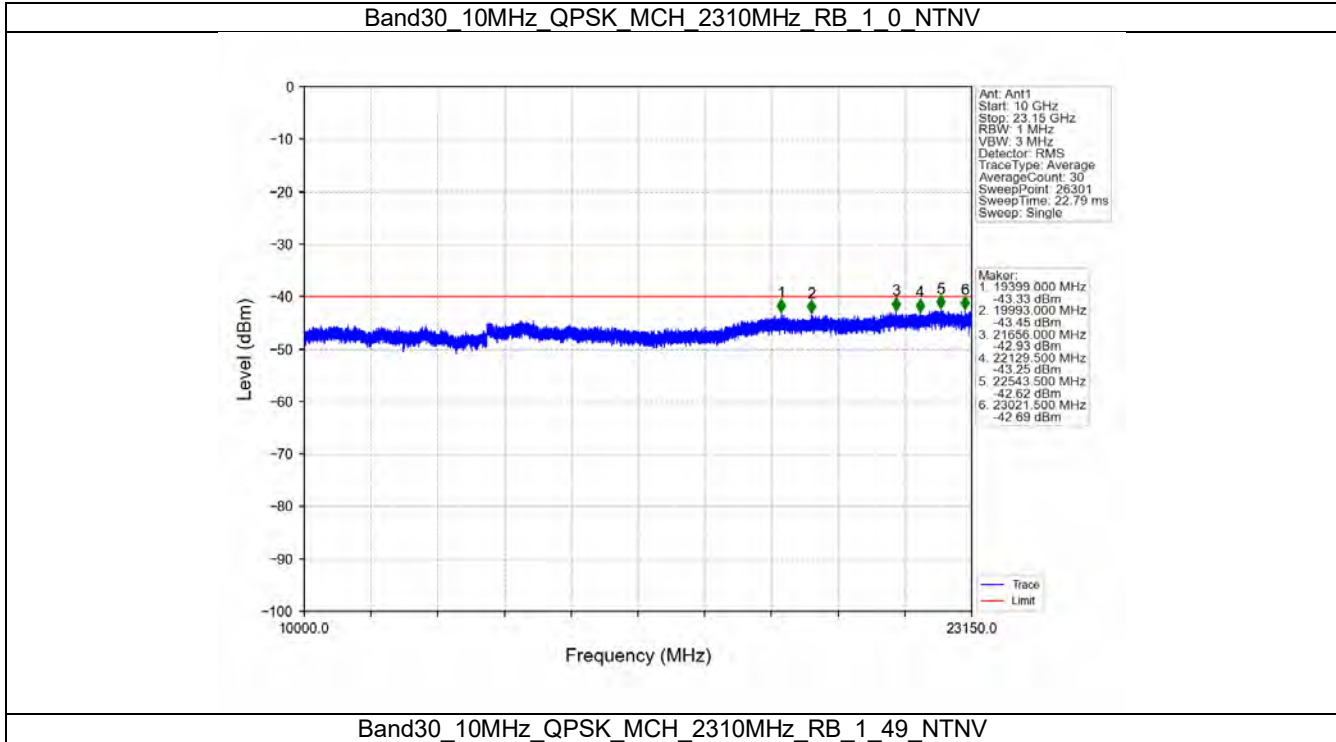


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Rev.: 01

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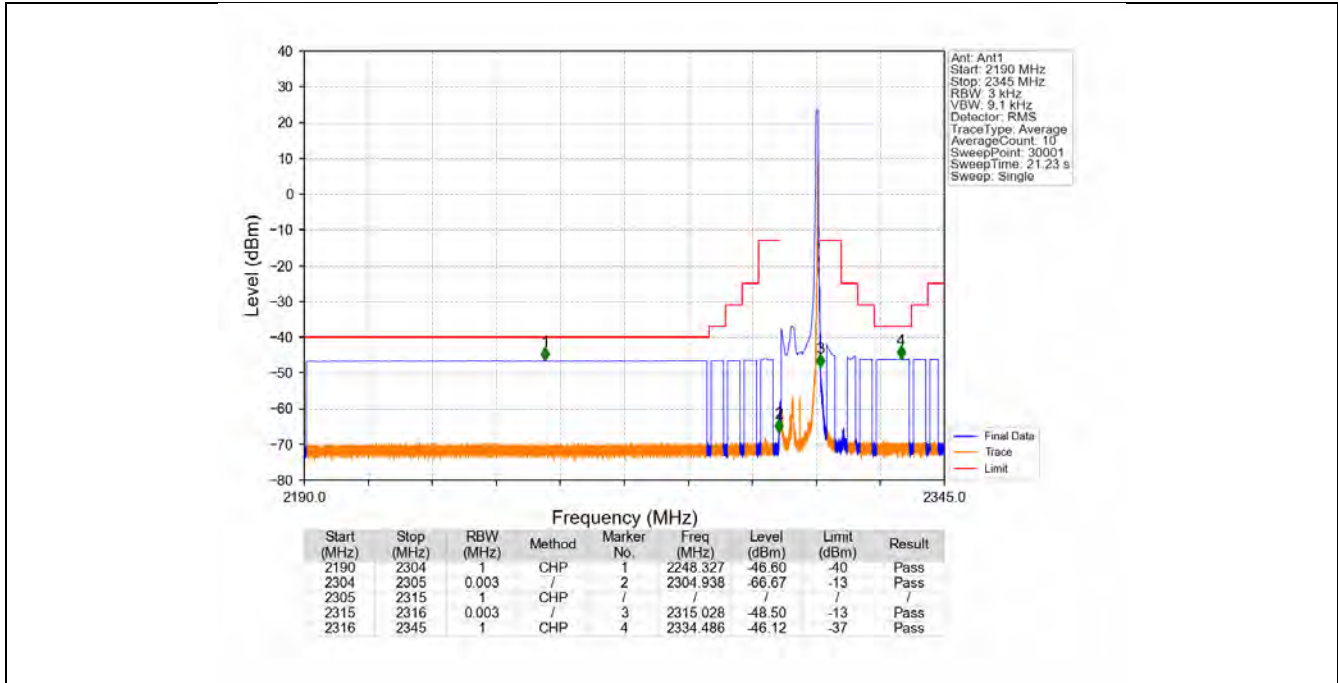


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Report No.: SZCR240100038408

Rev.: 01

Page: 114 of 159



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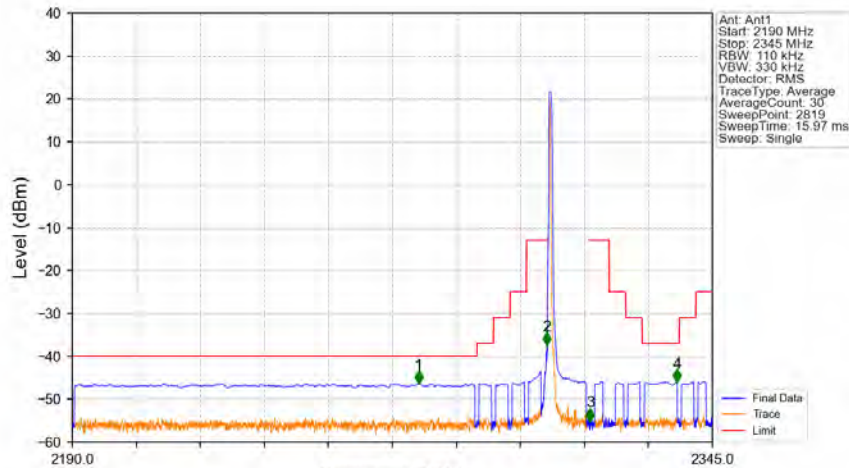
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Report No.: SZCR240100038408

Rev.: 01

Page: 115 of 159

Band30_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2273.880	-46.37	-40	Pass
2304	2305	0.11	/	2	2304.957	-37.40	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.11	/	3	2315.408	-55.16	-13	Pass
2316	2345	1	CHP	4	2336.474	-46.01	-37	Pass

Band30_10MHz_QPSK_HCH_2310MHz_RB_1_0_NTNV



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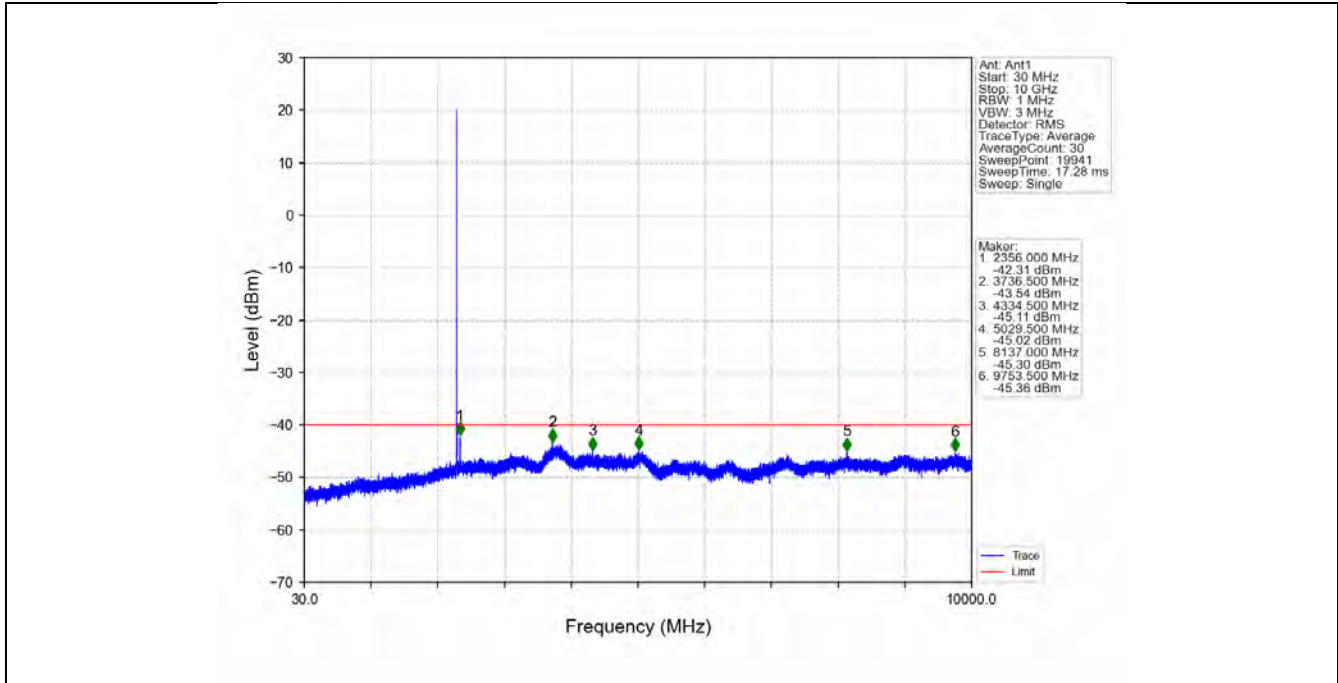


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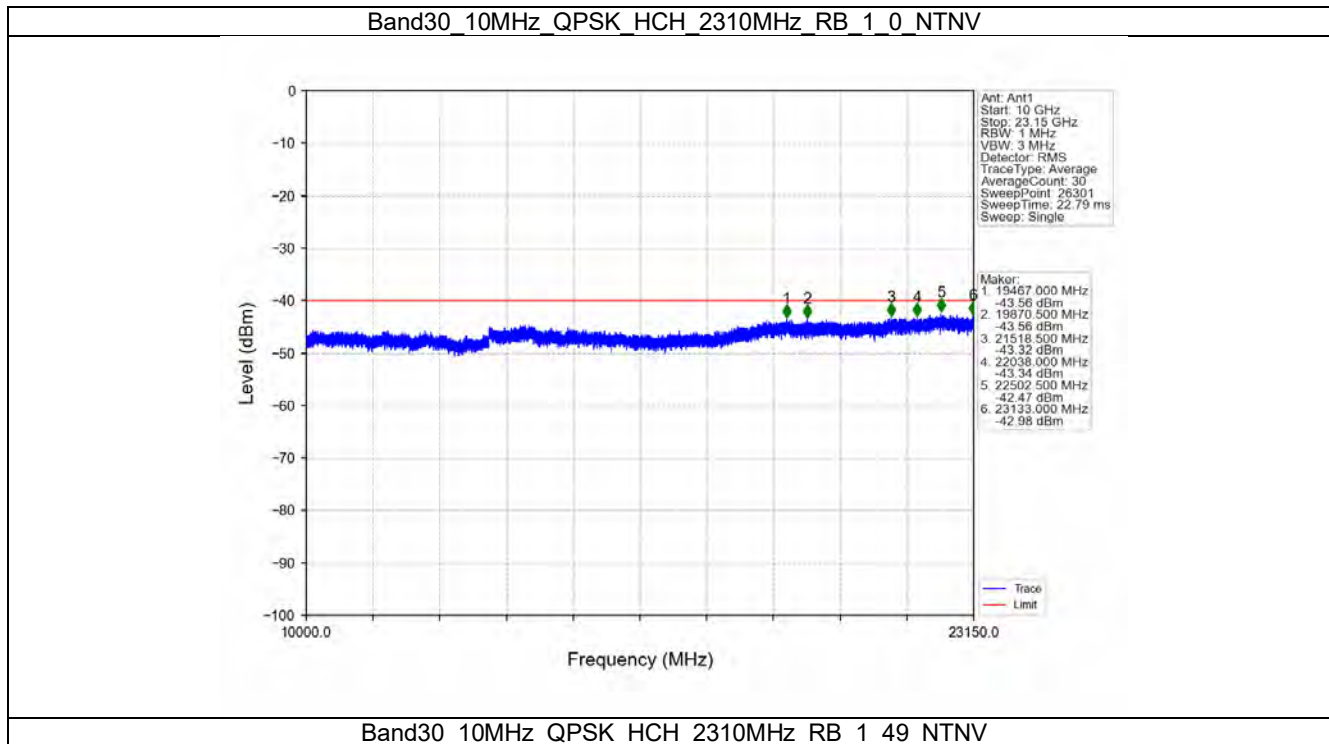
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Report No.: SZCR240100038408
Rev.: 01
Page: 117 of 159



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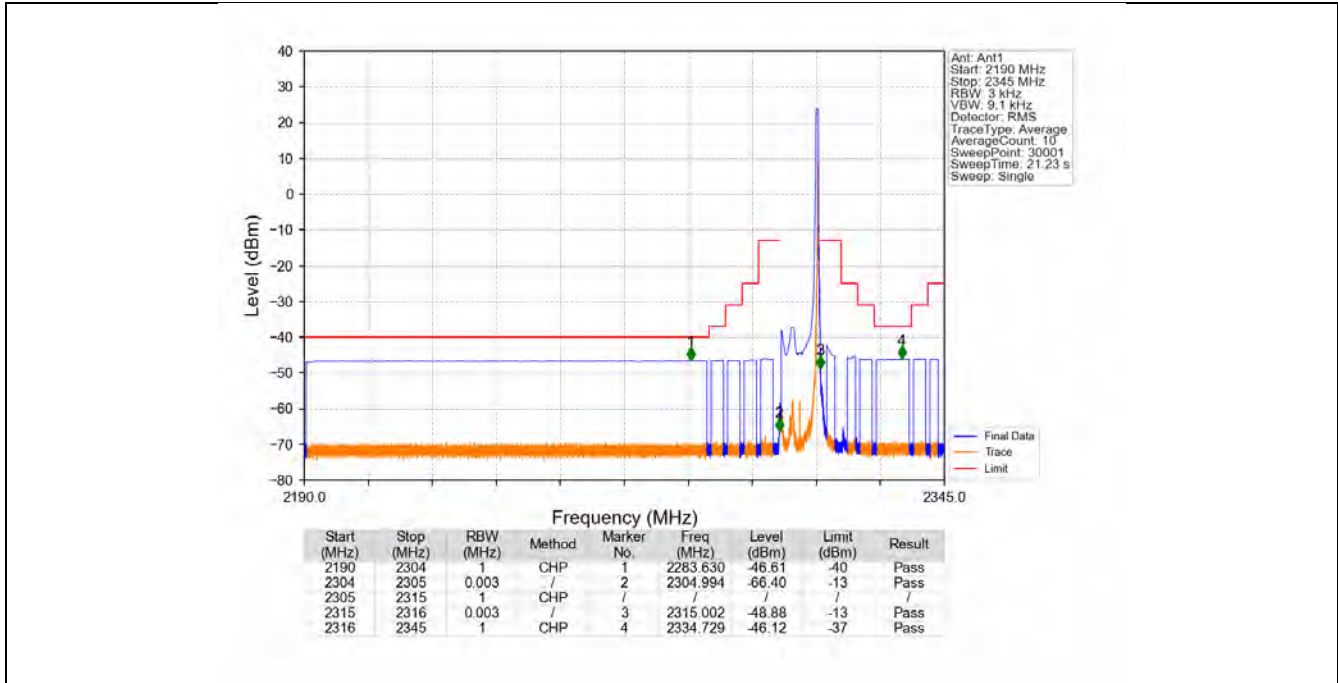


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Report No.: SZCR240100038408

Rev.: 01

Page: 118 of 159



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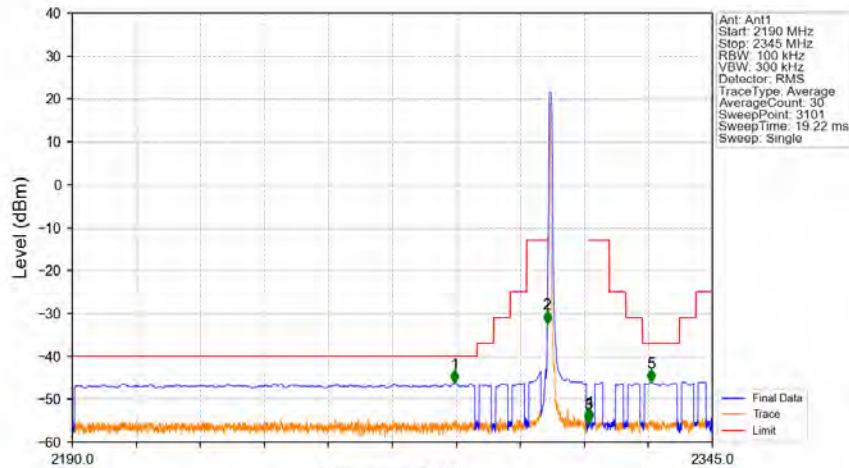
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZCR240100038408

Rev.: 01

Page: 119 of 159

Band30_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2282.550	-46.20	-40	Pass
2304	2305	0.1	/	2	2305.000	-32.39	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-55.69	-13	Pass
2315	2316	0.1	/	4	2315.150	-55.13	-13	Pass
2316	2345	1	CHP	5	2330.100	-46.03	-37	Pass

Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



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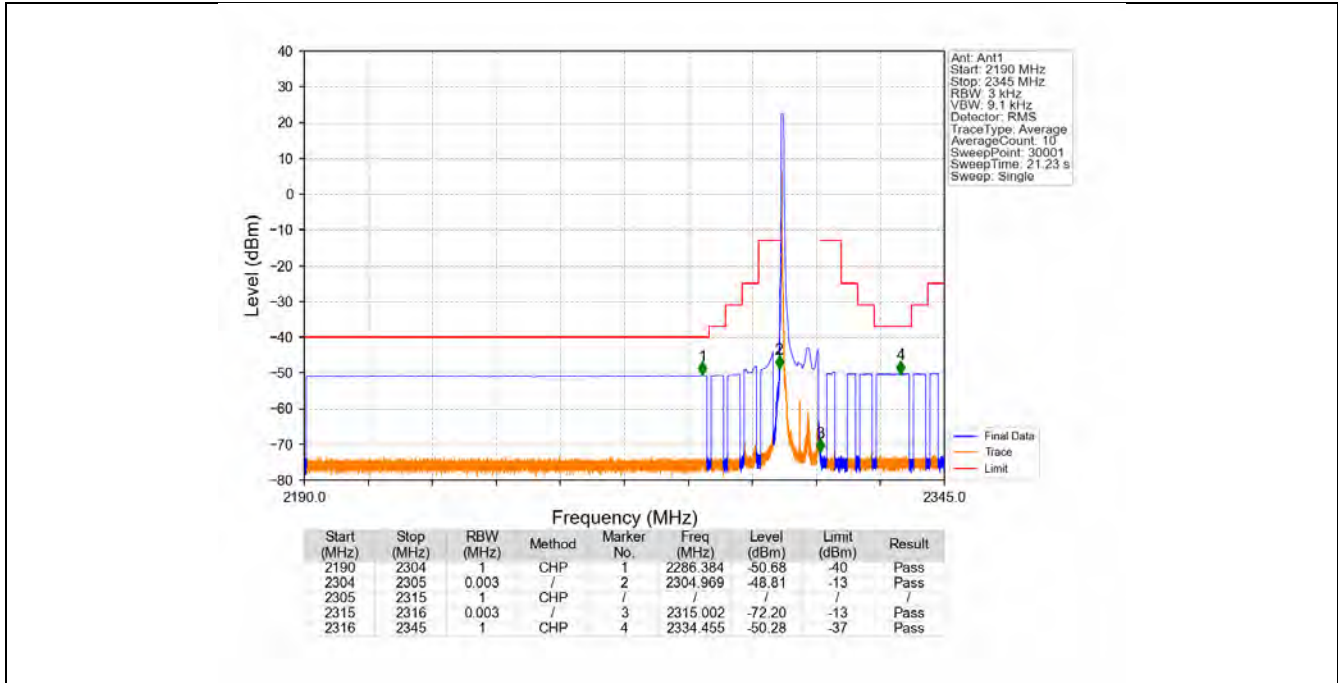


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Report No.: SZCR240100038408

Rev.: 01

Page: 120 of 159



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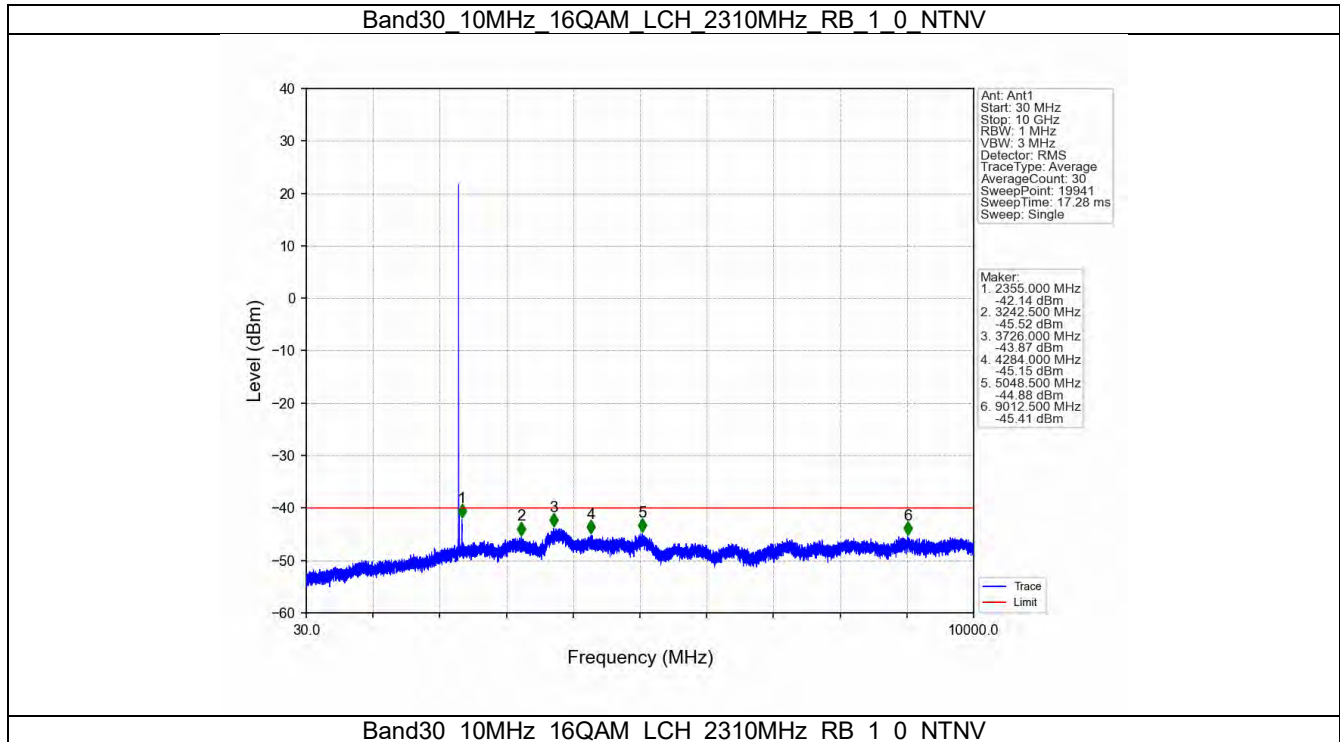


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Report No.: SZCR240100038408

Rev.: 01

Page: 121 of 159



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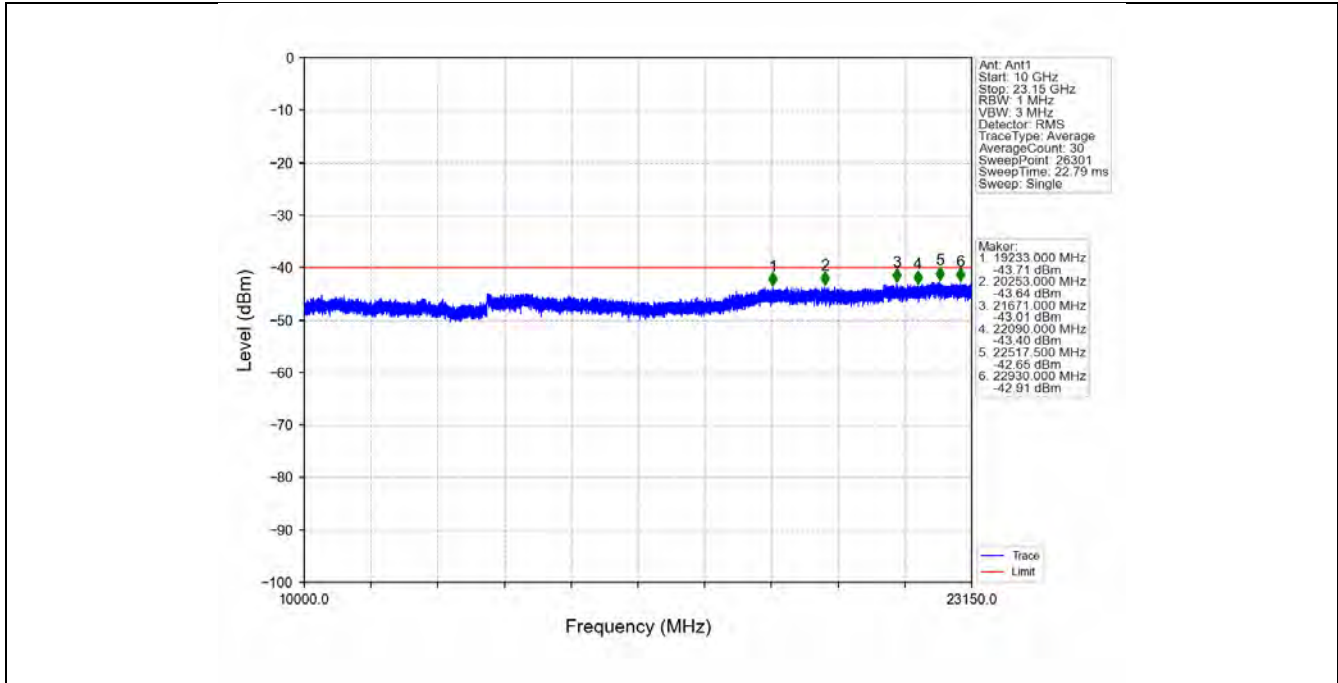


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Report No.: SZCR240100038408

Rev.: 01

Page: 122 of 159



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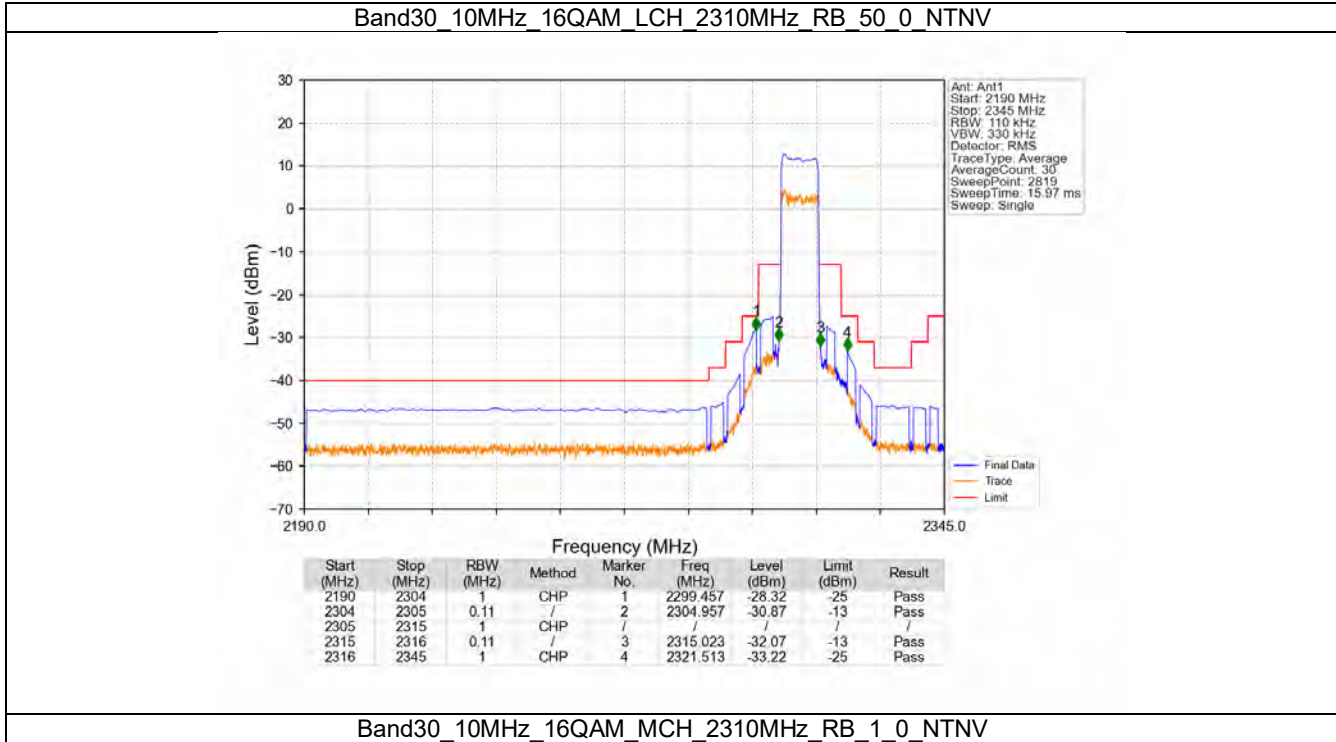


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Report No.: SZCR240100038408

Rev.: 01

Page: 123 of 159



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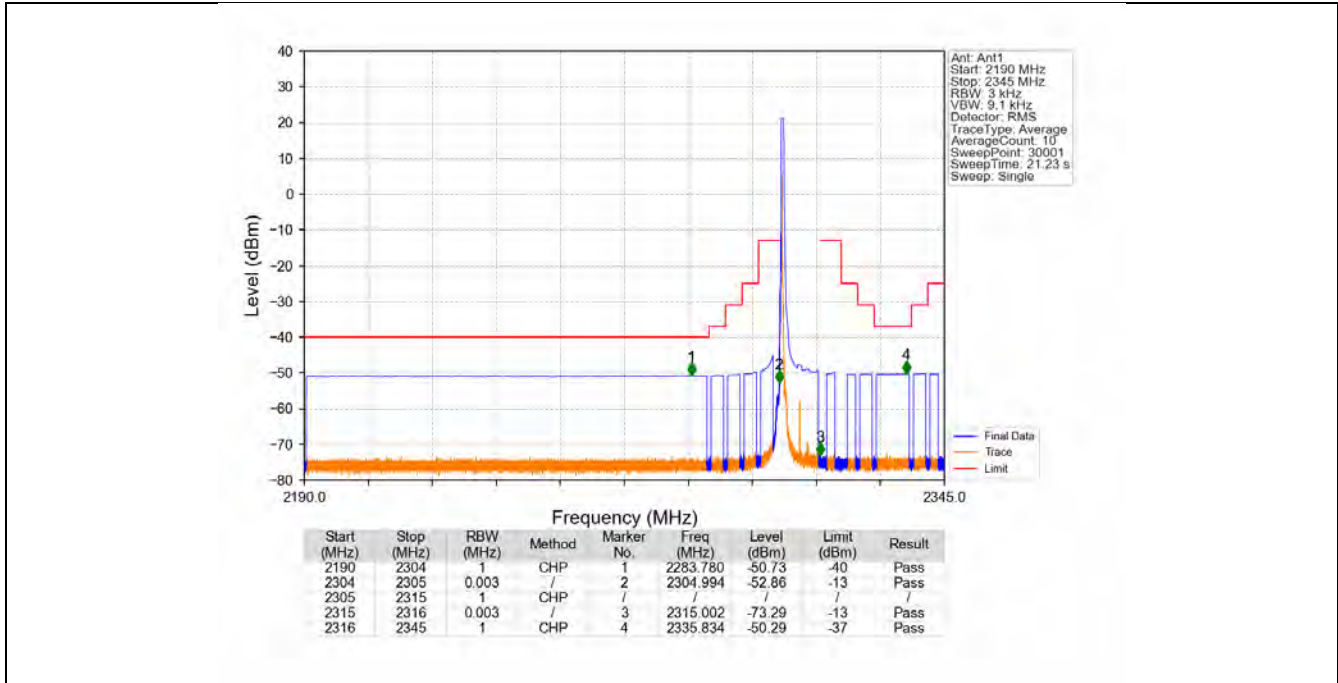


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Report No.: SZCR240100038408

Rev.: 01

Page: 124 of 159



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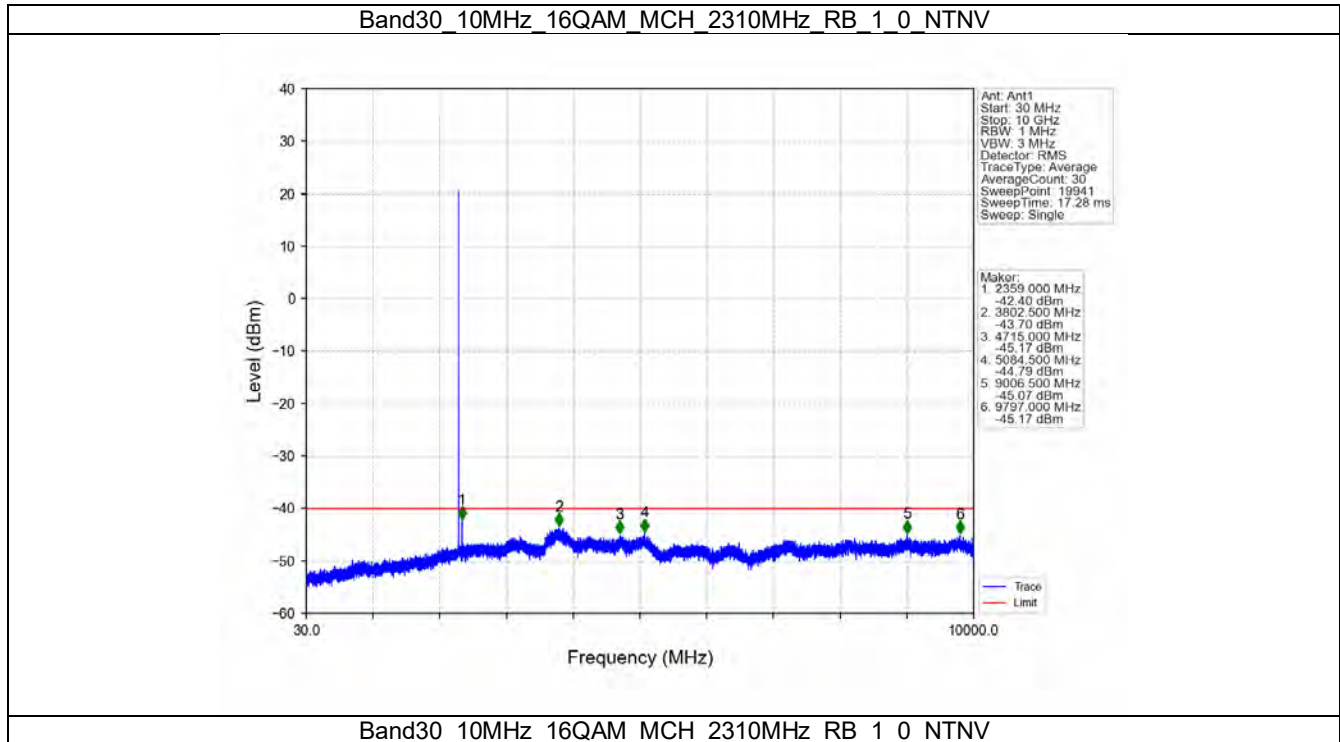


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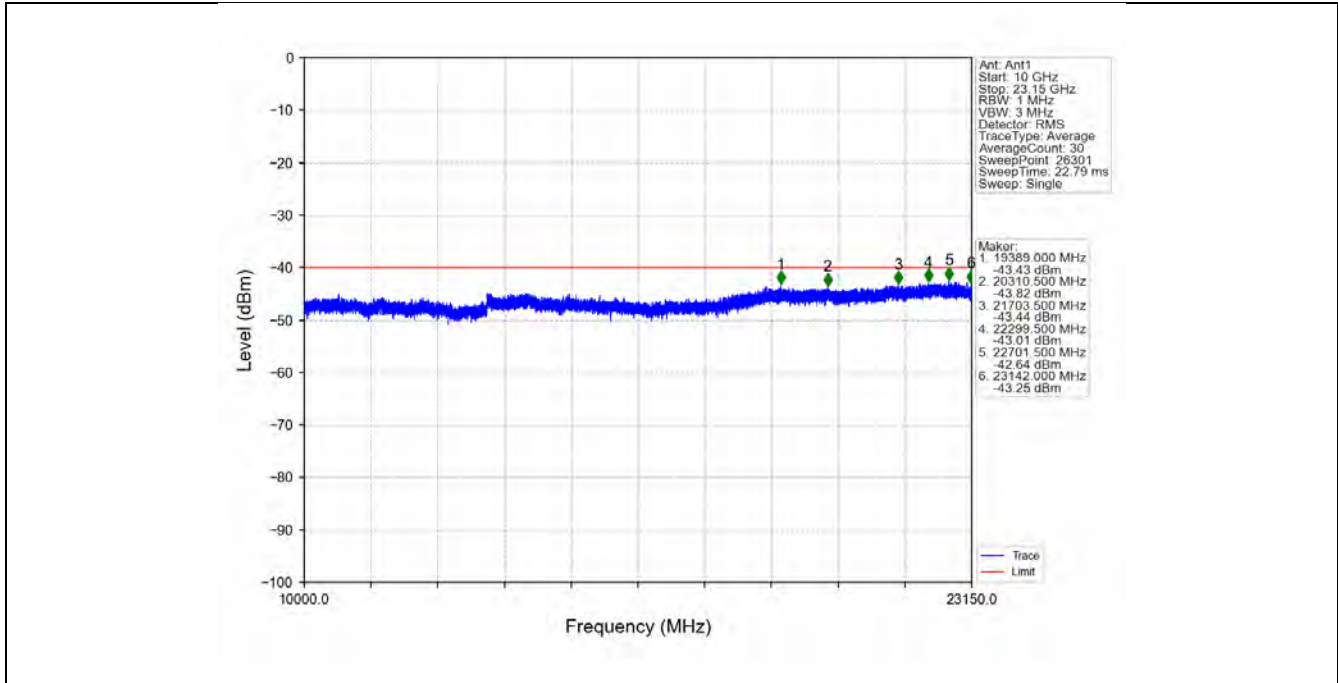


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Report No.: SZCR240100038408

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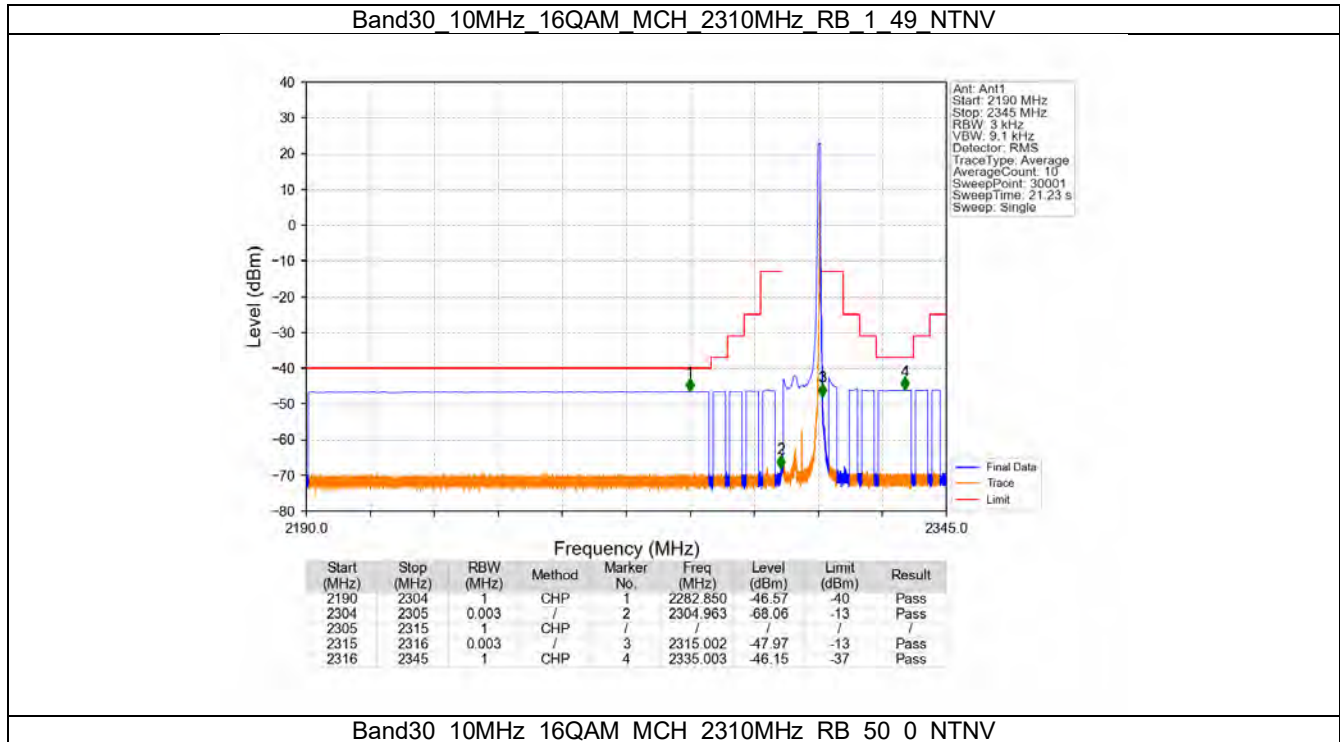


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Report No.: SZCR240100038408

Rev.: 01

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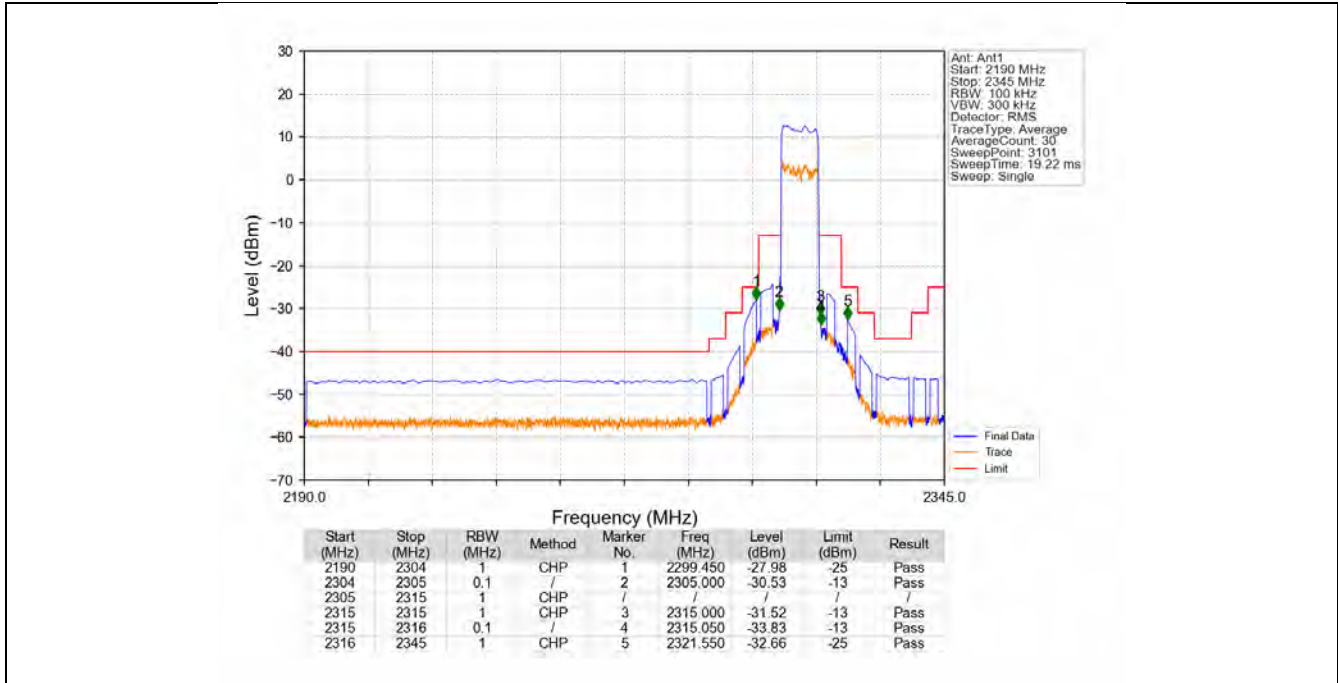


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Report No.: SZCR240100038408

Rev.: 01

Page: 128 of 159



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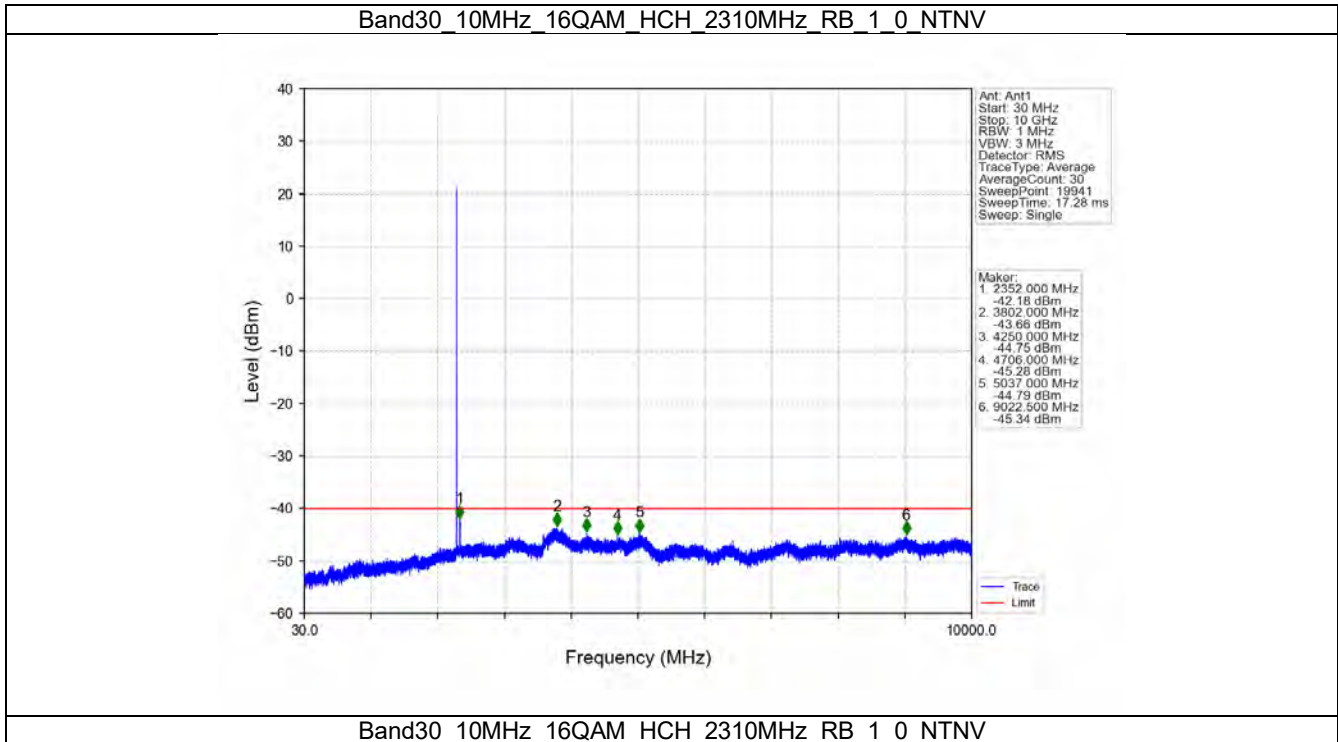


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Report No.: SZCR240100038408

Rev.: 01

Page: 129 of 159



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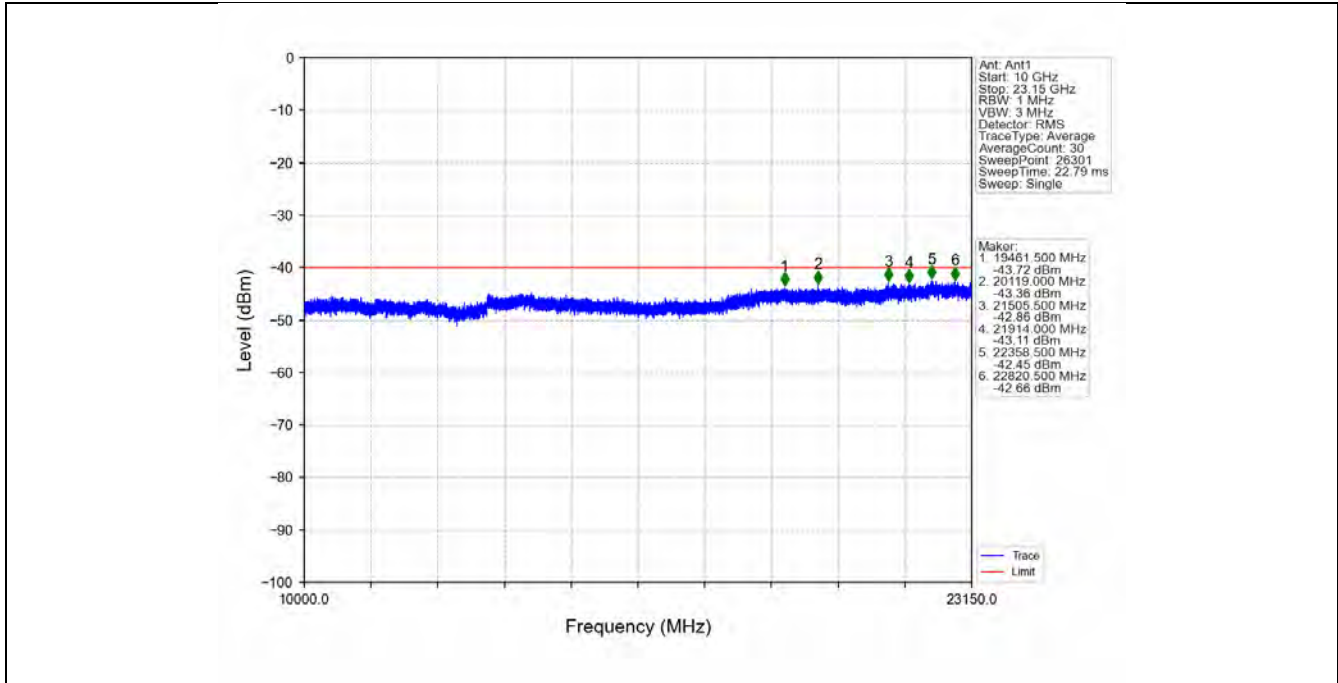


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Report No.: SZCR240100038408

Rev.: 01

Page: 130 of 159



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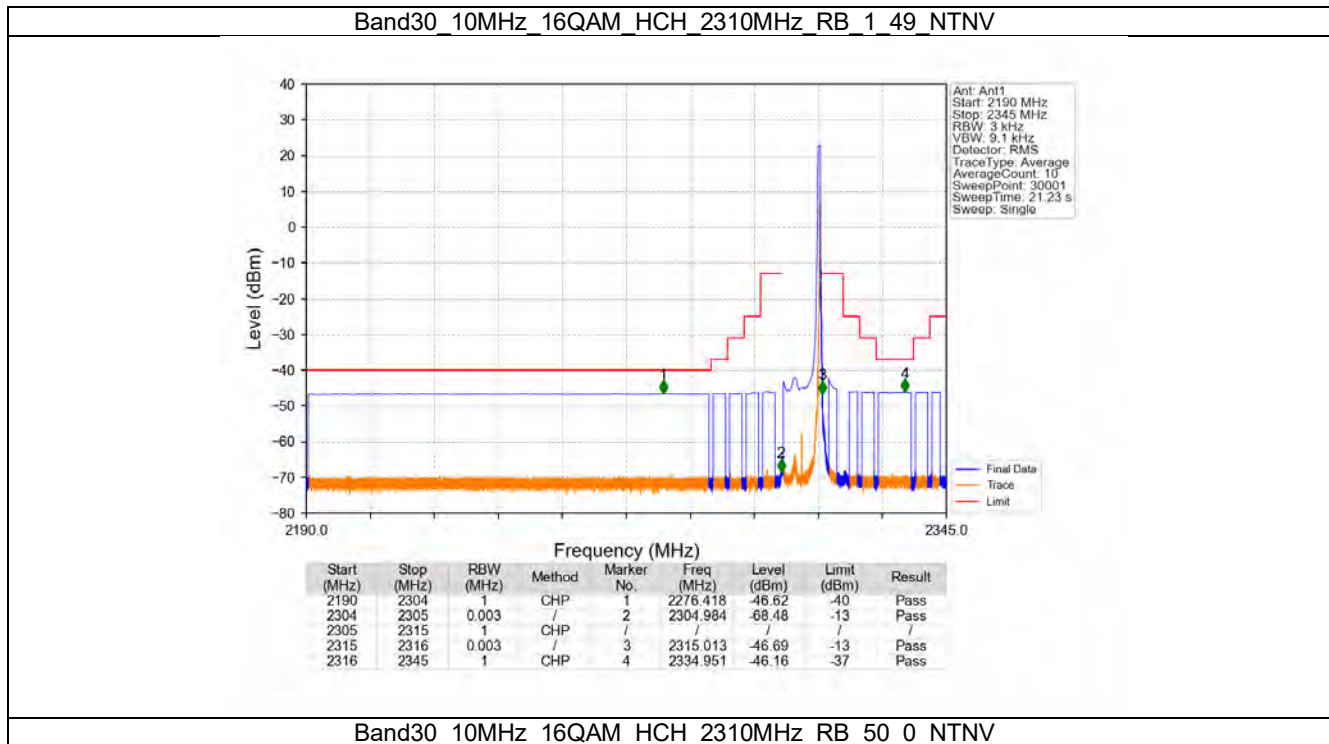
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Shenzhen Branch**

Report No.: SZCR240100038408
Rev.: 01
Page: 131 of 159



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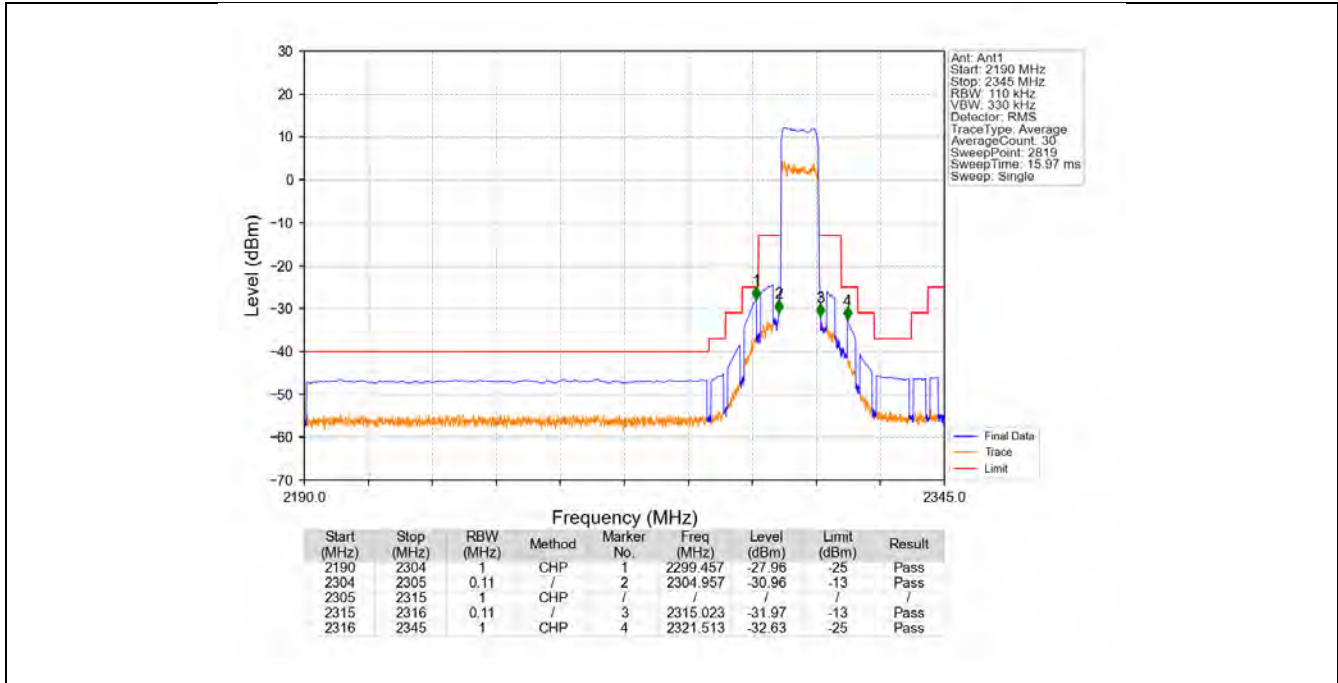


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Report No.: SZCR240100038408

Rev.: 01

Page: 132 of 159



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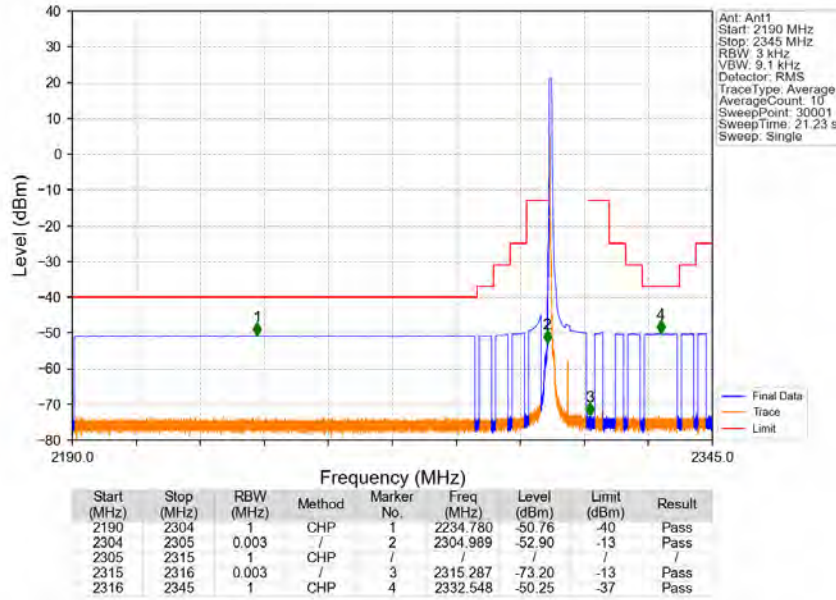
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Report No.: SZCR240100038408

Rev.: 01

Page: 133 of 159

Band30_10MHz_64QAM_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_64QAM_LCH_2310MHz_RB_1_0_NTNV



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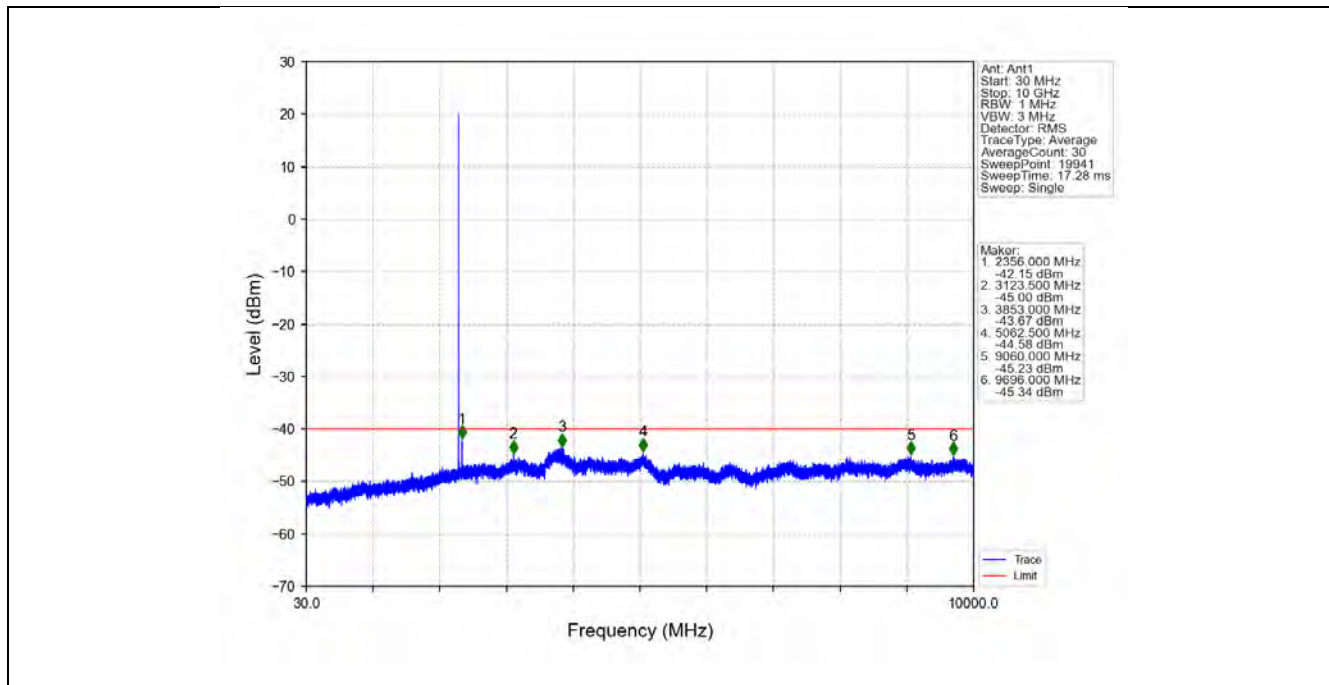
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Report No.: SZCR240100038408
Rev.: 01
Page: 134 of 159



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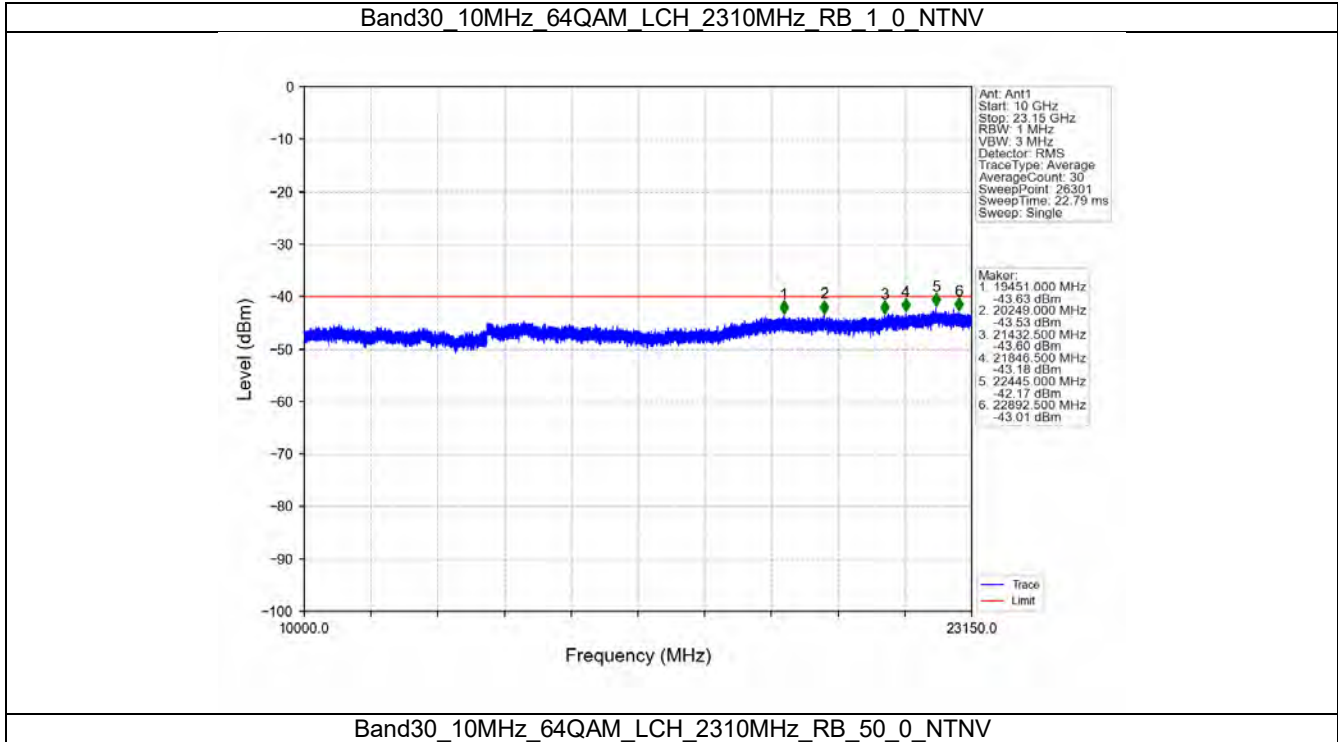


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Report No.: SZCR240100038408

Rev.: 01

Page: 135 of 159



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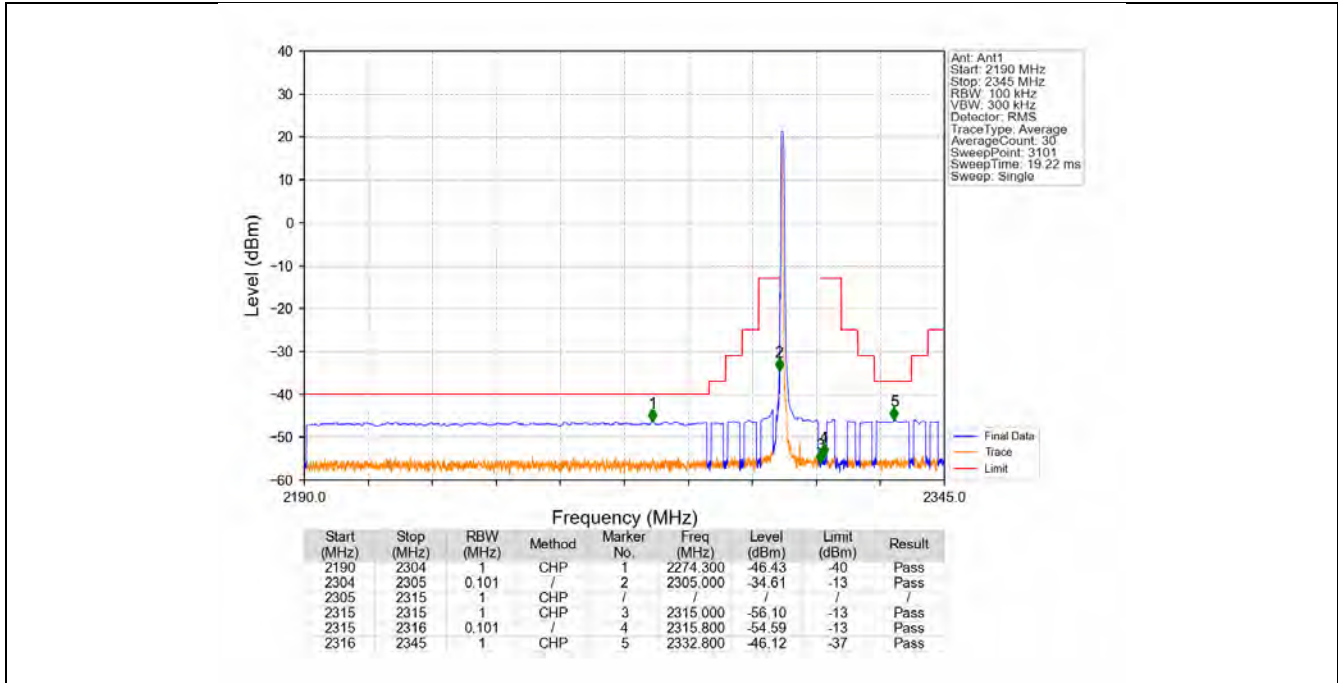


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Report No.: SZCR240100038408

Rev.: 01

Page: 136 of 159



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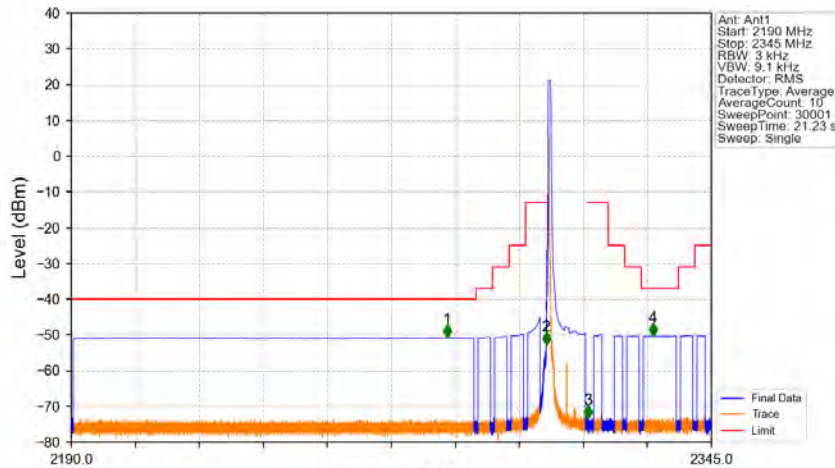
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Report No.: SZCR240100038408

Rev.: 01

Page: 137 of 159

Band30_10MHz_64QAM_MCH_2310MHz_RB_1_0_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2280.980	-50.75	-40	Pass
2304	2305	0.003	/	2	2304.994	-53.00	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.204	-73.44	-13	Pass
2316	2345	1	CHP	4	2330.895	-50.32	-37	Pass

Band30_10MHz_64QAM_MCH_2310MHz_RB_1_0_NTV



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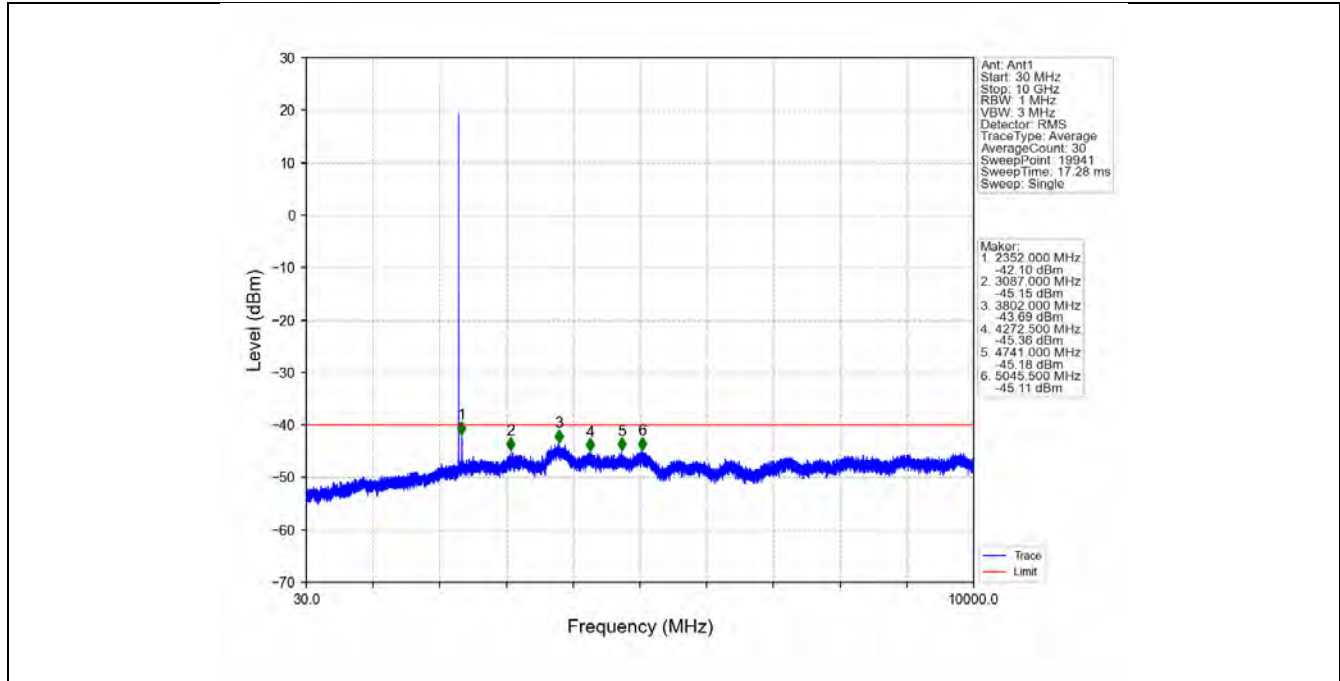


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Report No.: SZCR240100038408

Rev.: 01

Page: 138 of 159



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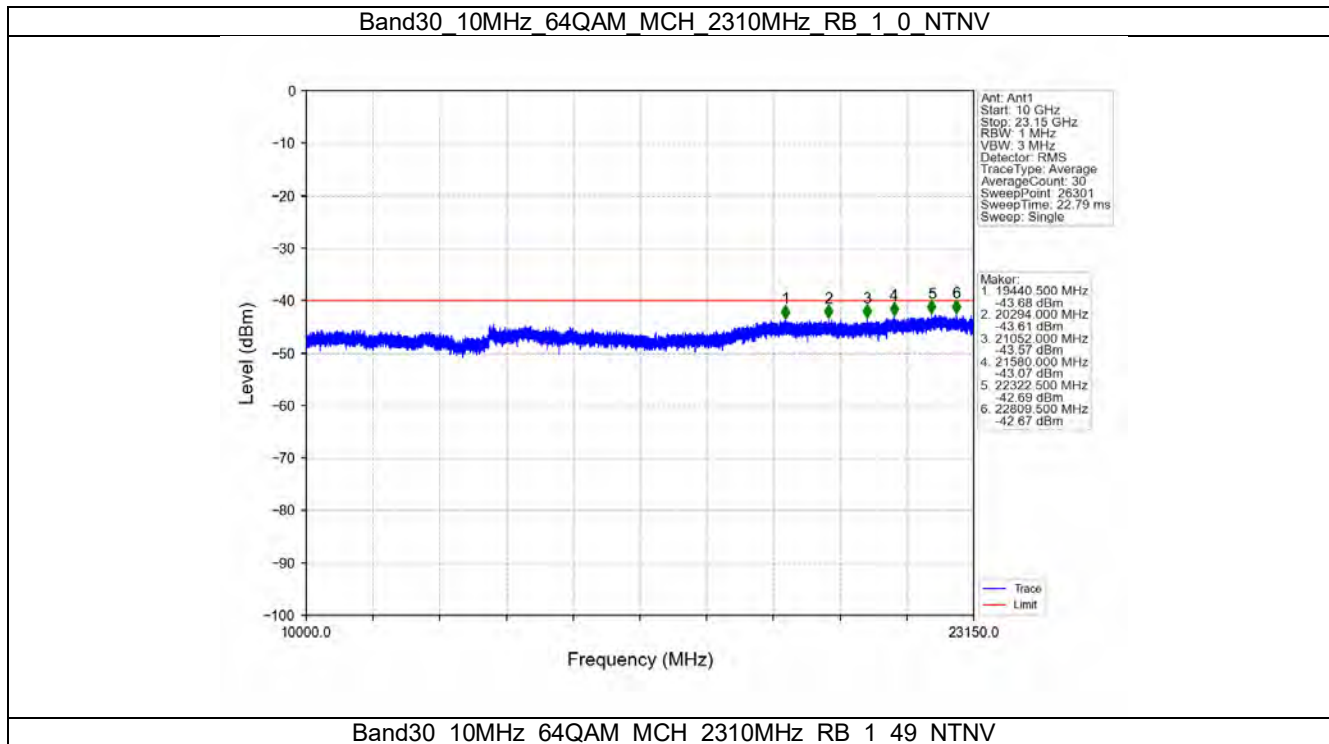
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Rev.: 01
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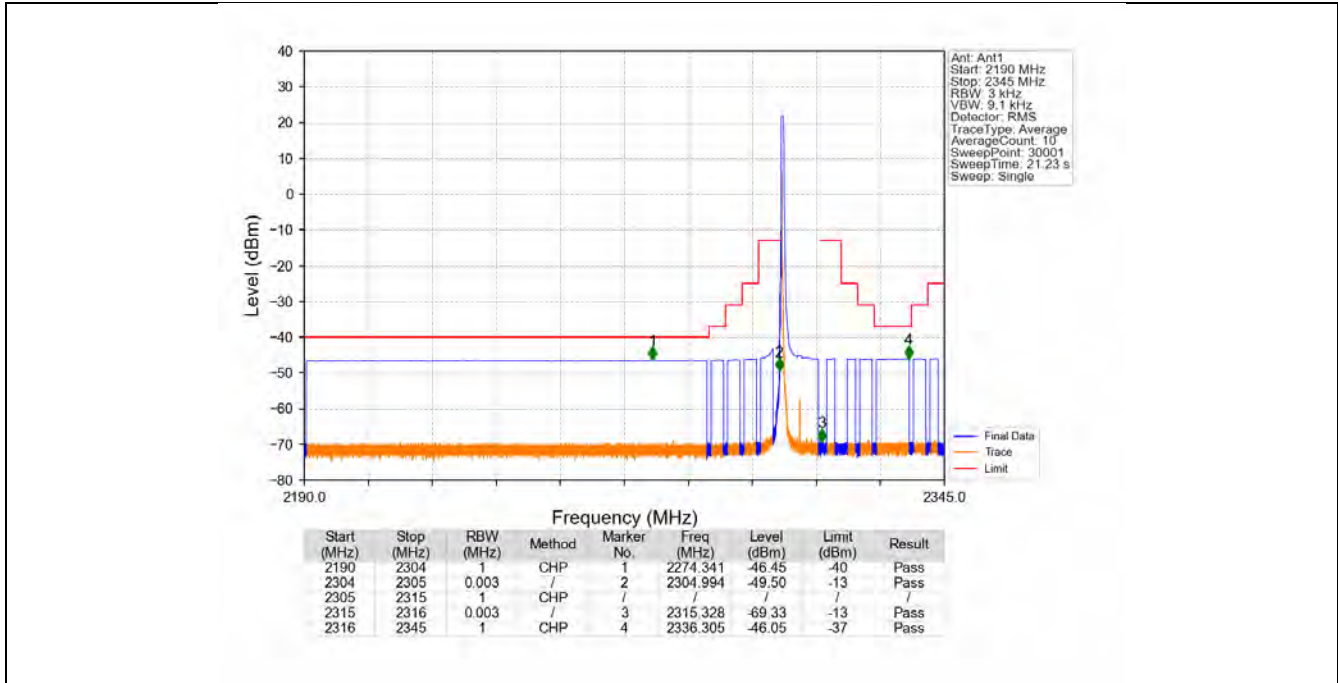


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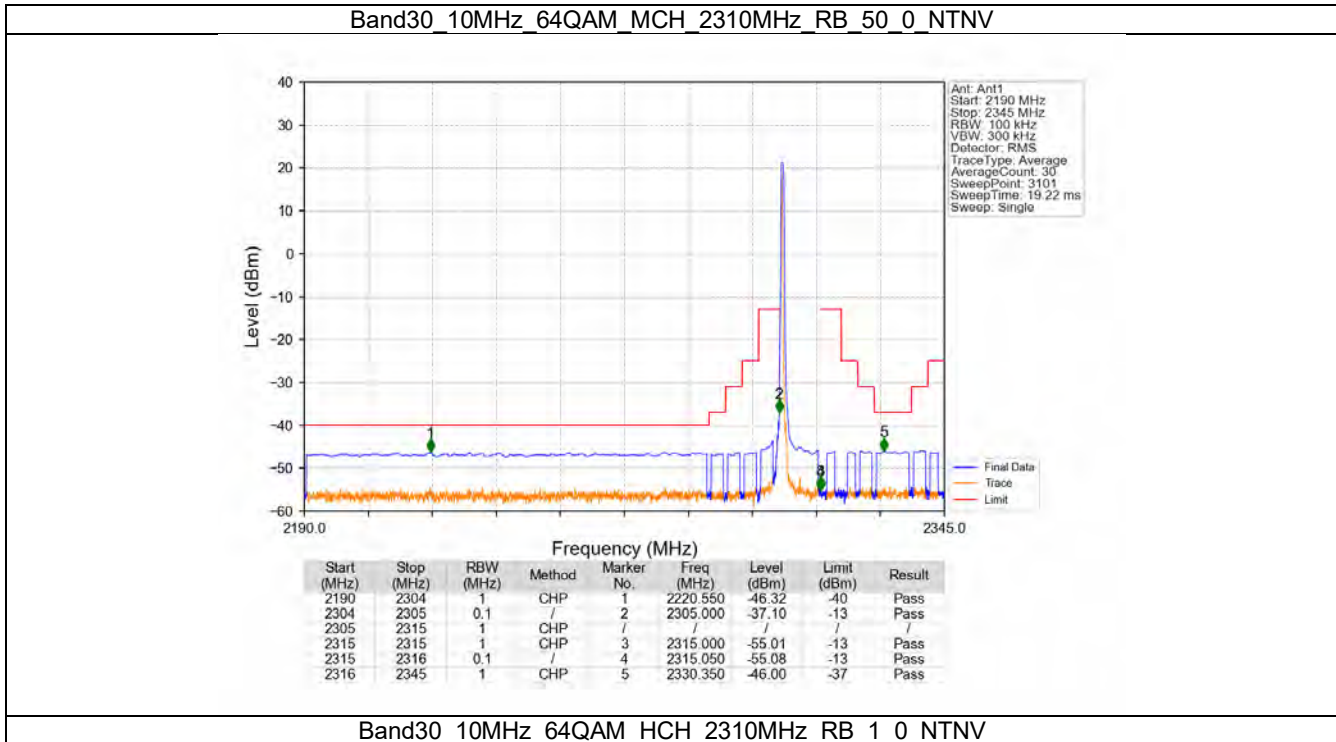


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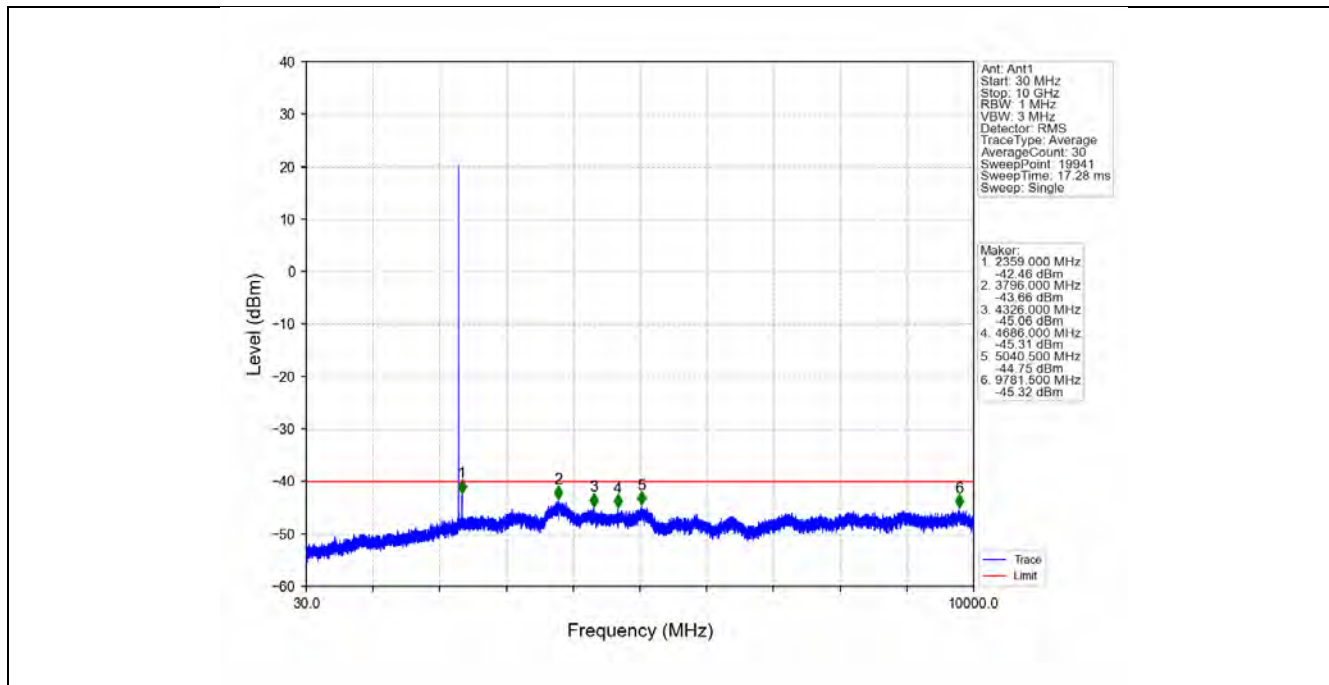
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Rev.: 01
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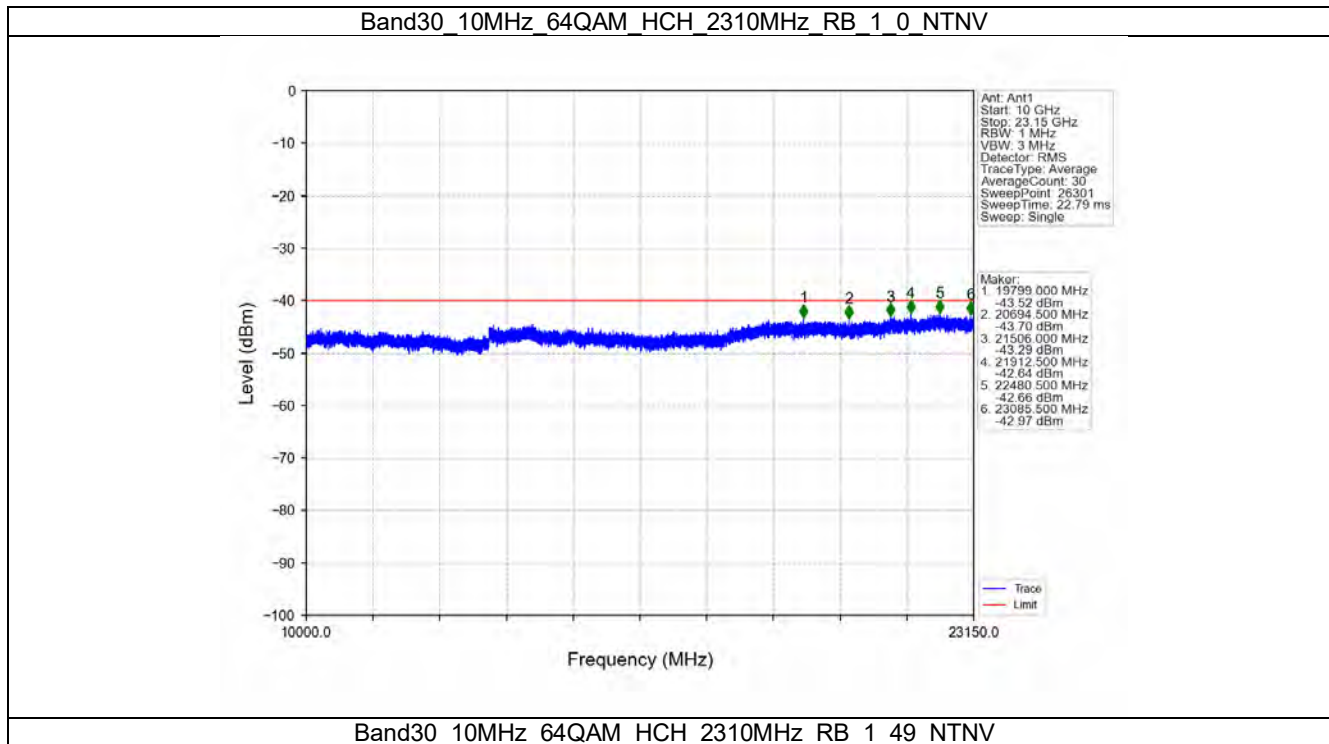
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Rev.: 01
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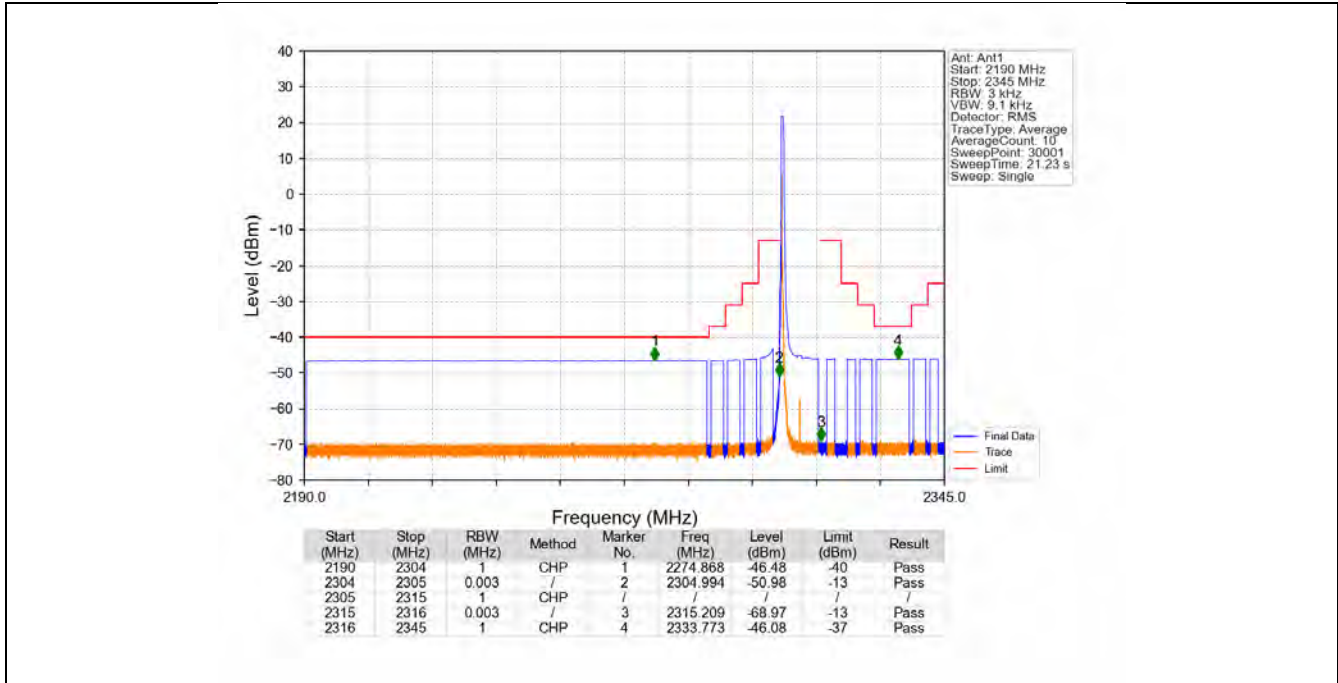


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Report No.: SZCR240100038408

Rev.: 01

Page: 144 of 159



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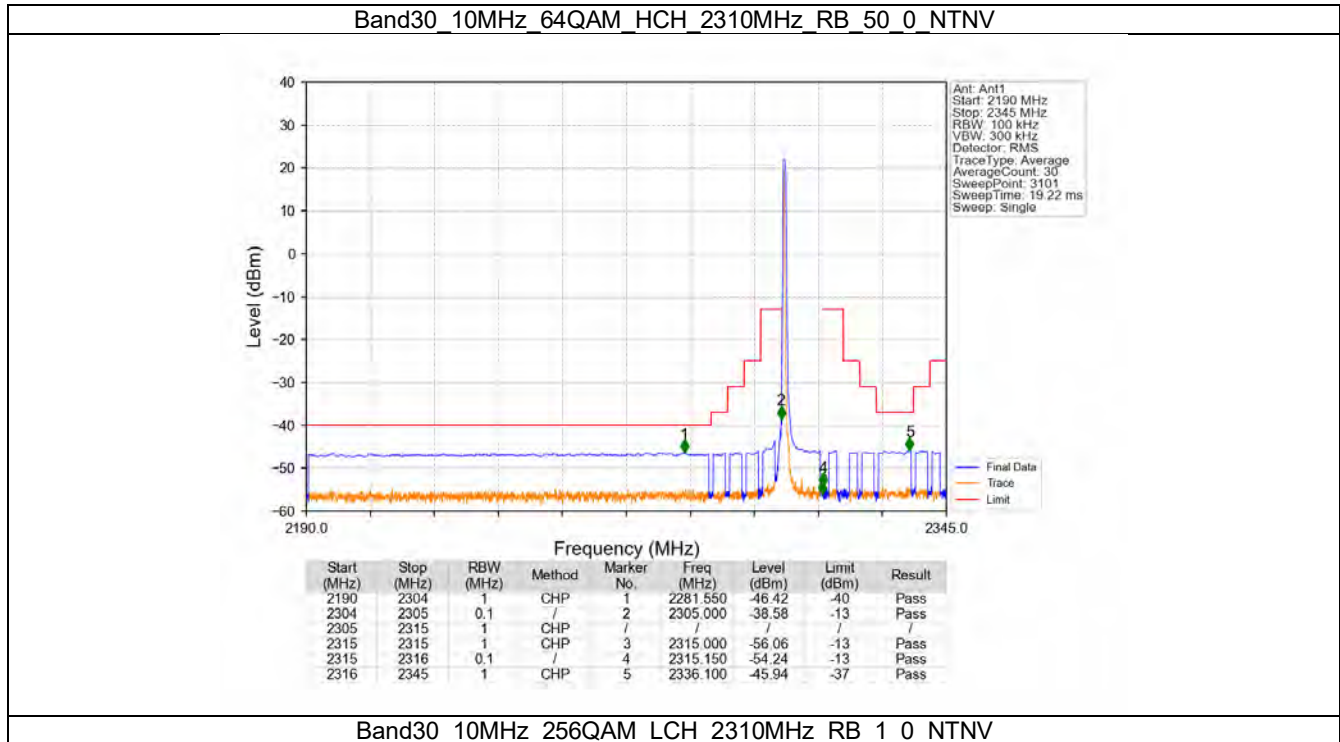


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Report No.: SZCR240100038408

Rev.: 01

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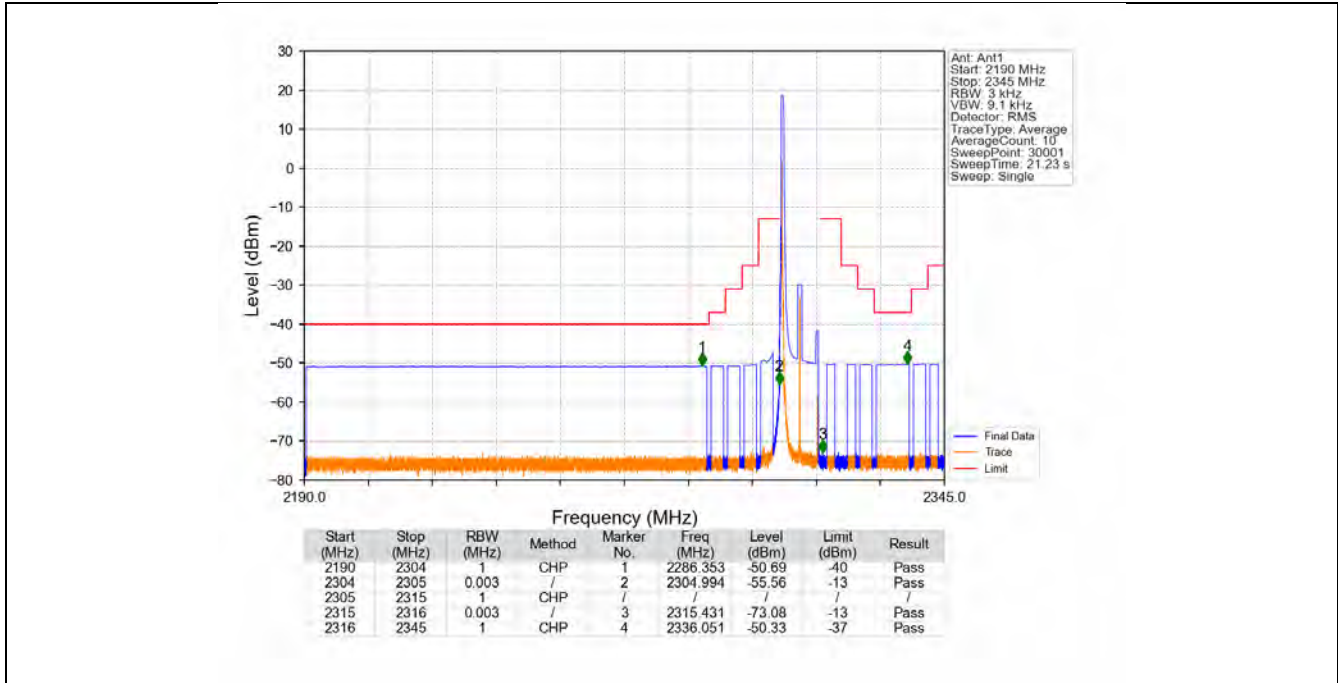


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Report No.: SZCR240100038408

Rev.: 01

Page: 146 of 159



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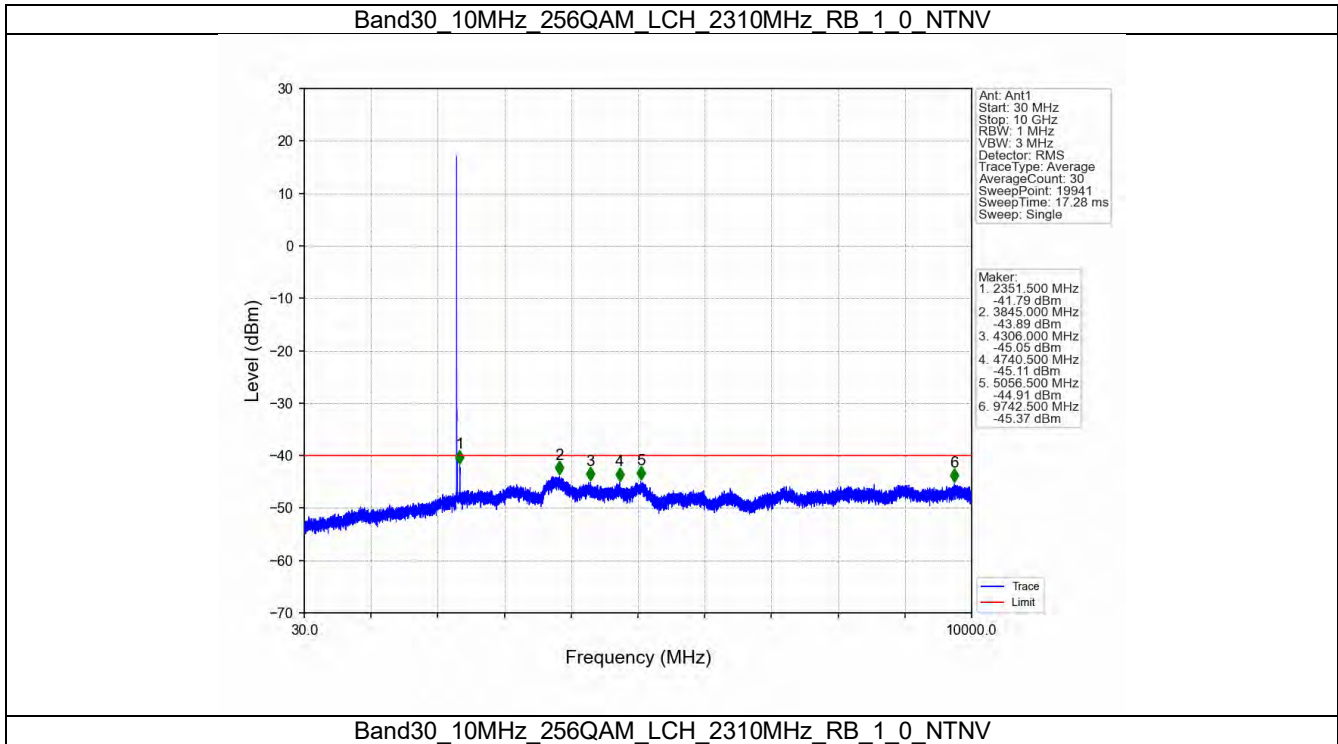


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Report No.: SZCR240100038408

Rev.: 01

Page: 147 of 159



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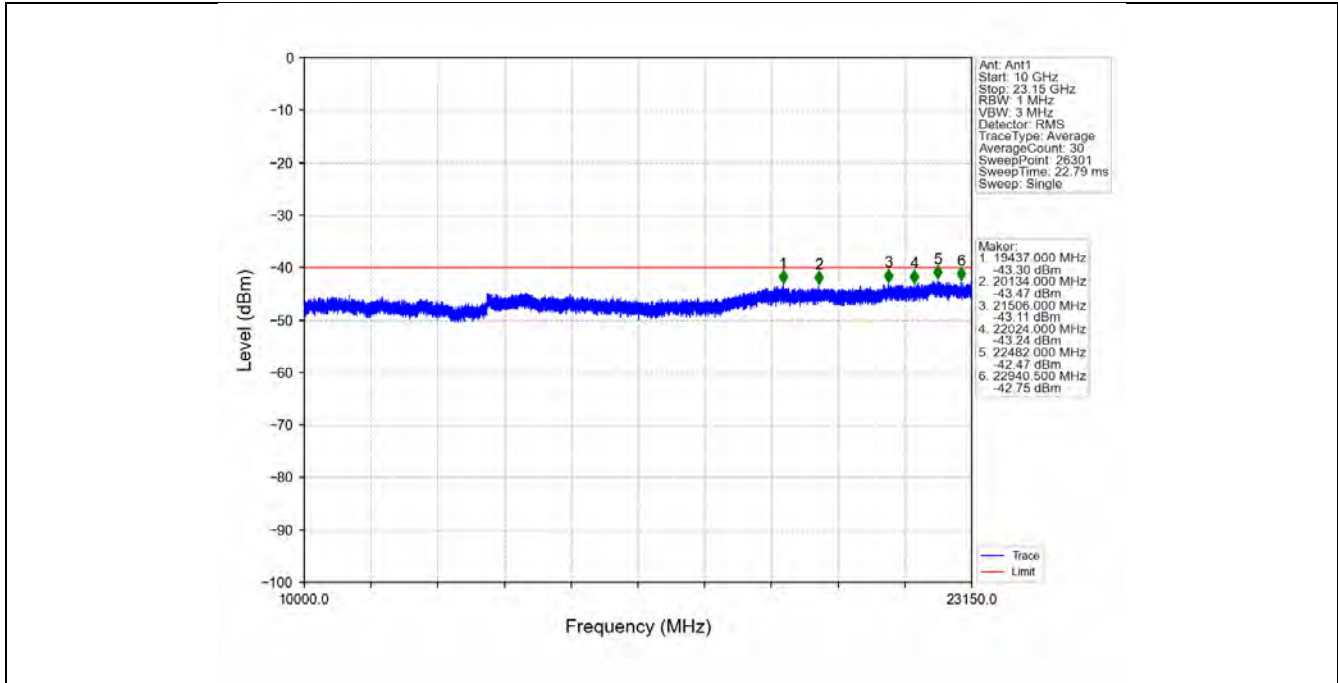


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Report No.: SZCR240100038408

Rev.: 01

Page: 148 of 159



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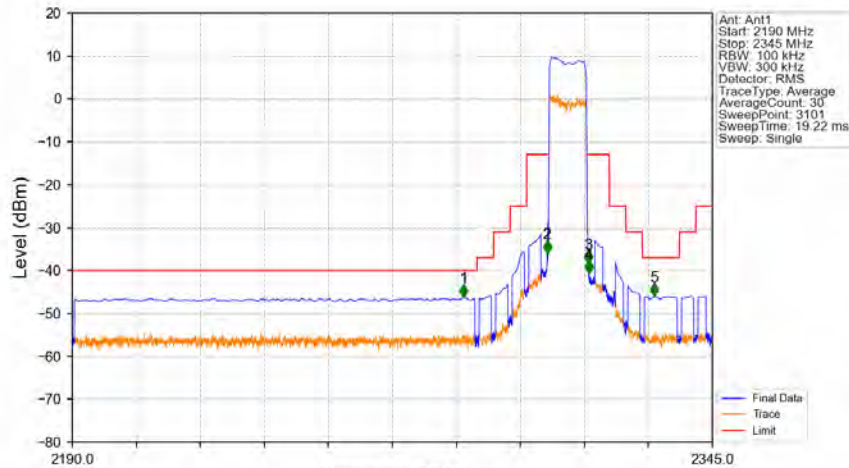
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Shenzhen Branch**

Report No.: SZCR240100038408

Rev.: 01

Page: 149 of 159

Band30_10MHz_256QAM_LCH_2310MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2284.800	-46.24	-40	Pass
2304	2305	0.1	/	2	2305.000	-36.01	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-38.45	-13	Pass
2315	2316	0.1	/	4	2315.050	-40.63	-13	Pass
2316	2345	1	CHP	5	2330.900	-46.04	-37	Pass

Band30_10MHz_256QAM_MCH_2310MHz_RB_1_0_NTNV



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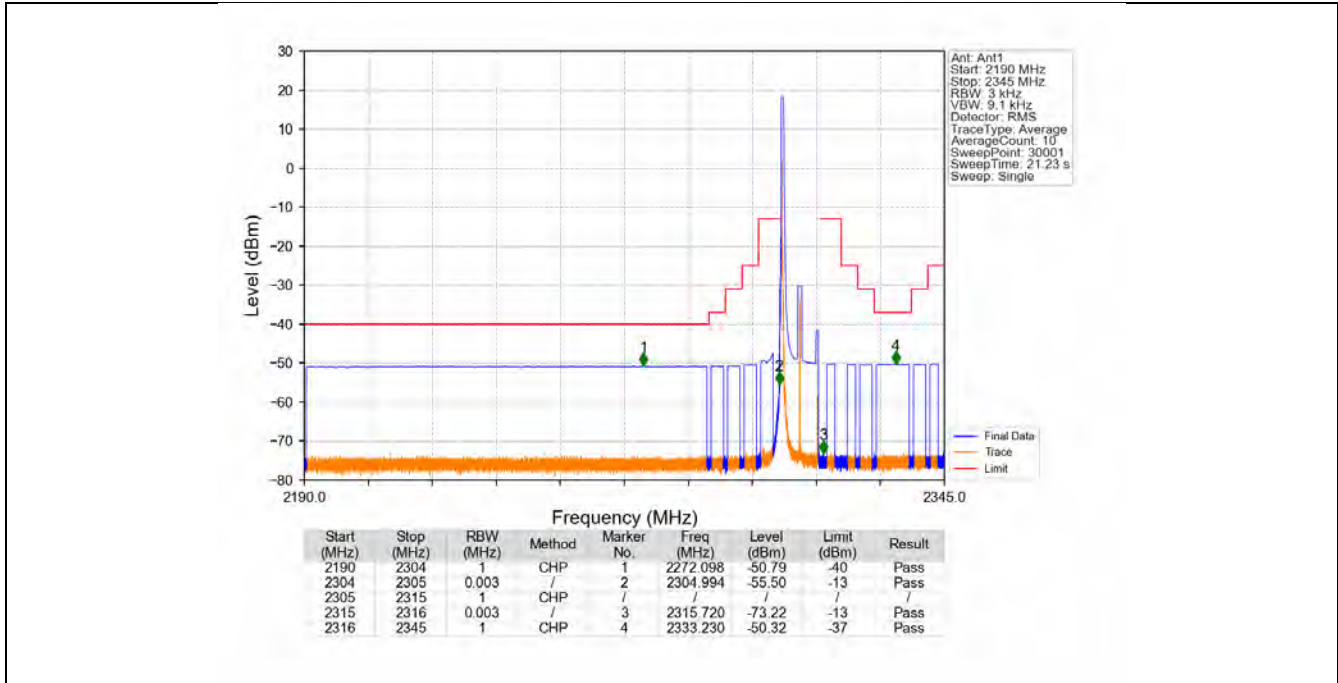


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Report No.: SZCR240100038408

Rev.: 01

Page: 150 of 159



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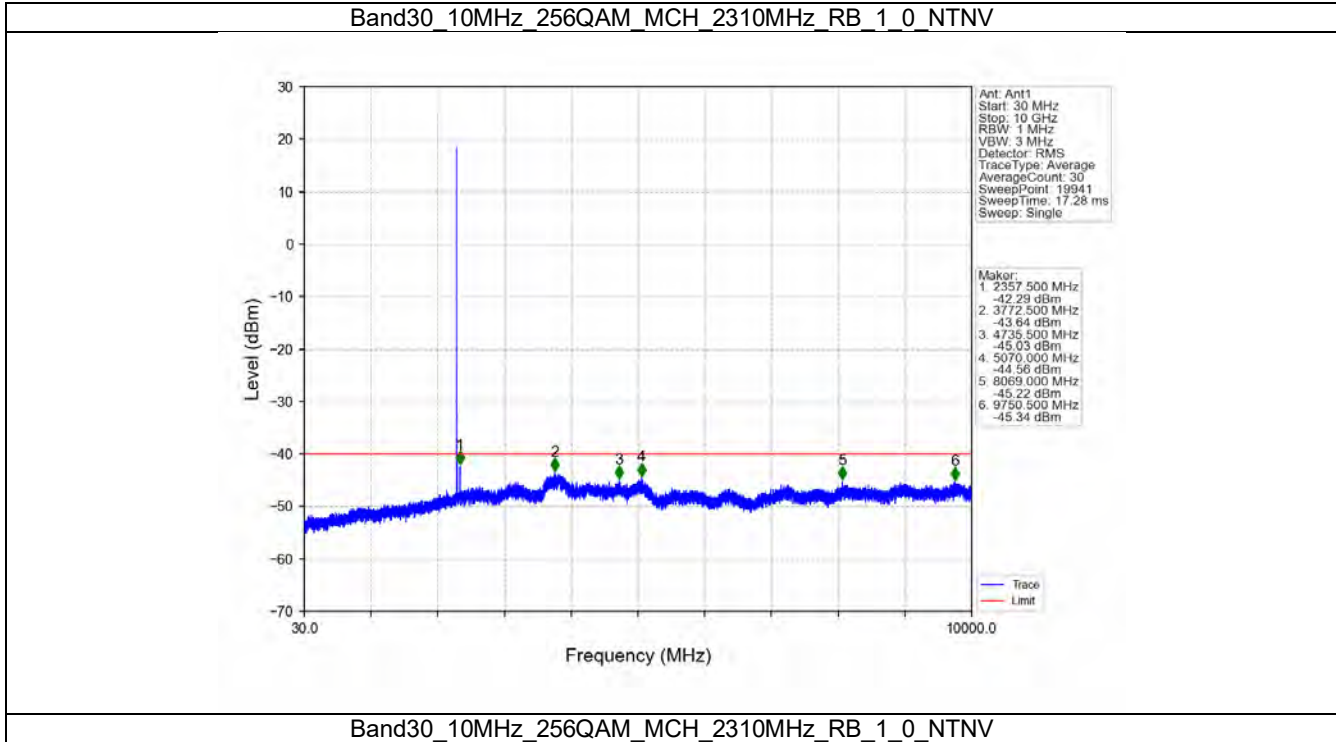


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Report No.: SZCR240100038408

Rev.: 01

Page: 151 of 159



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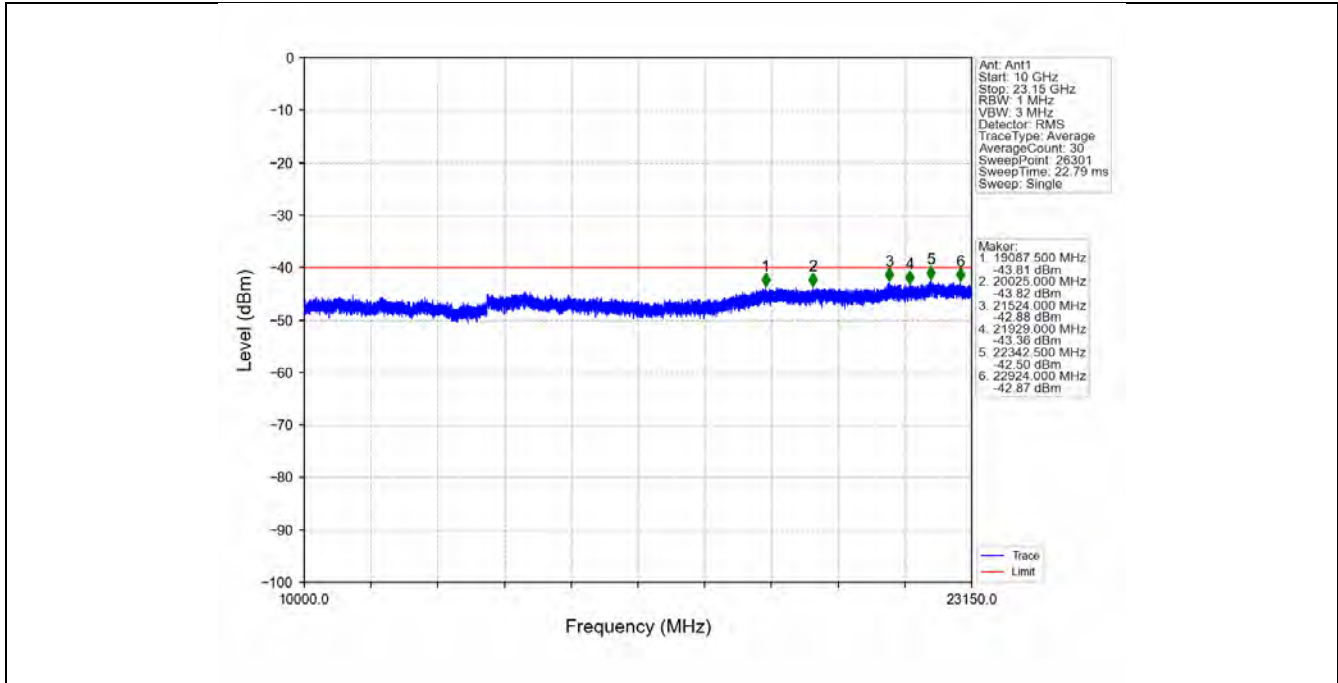


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Rev.: 01

Page: 152 of 159



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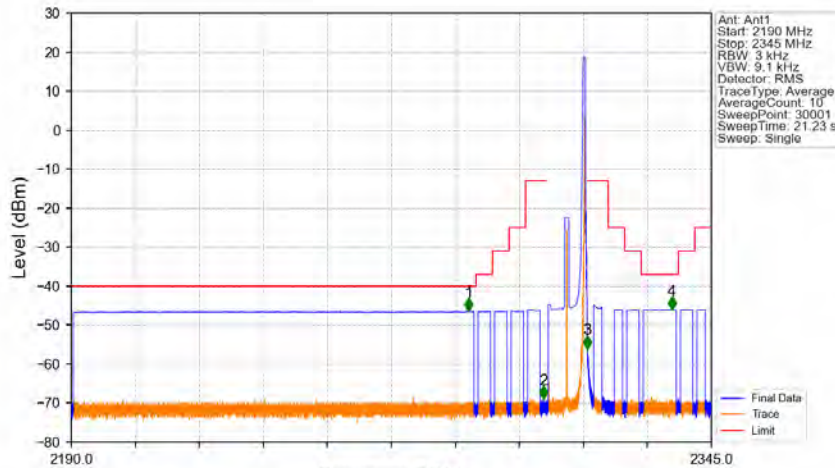
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Shenzhen Branch

Report No.: SZCR240100038408

Rev.: 01

Page: 153 of 159

Band30_10MHz_256QAM_MCH_2310MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2286.260	-46.46	-40	Pass
2304	2305	0.003	/	2	2304.385	-69.02	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-56.05	-13	Pass
2316	2345	1	CHP	4	2335.473	-46.02	-37	Pass

Band30_10MHz_256QAM_MCH_2310MHz_RB_50_0_NTNV



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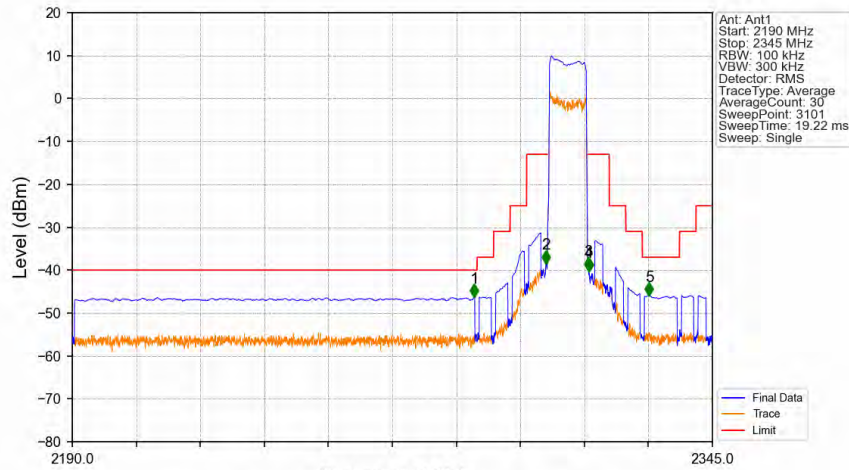


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Report No.: SZCR240100038408

Rev.: 01

Page: 154 of 159



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	/	1	2287.350	-46.31	-40	Pass
2304	2305	0.1	CHP	2	2304.750	-38.47	-13	Pass
2305	2315	1	/	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-40.06	-13	Pass
2315	2316	0.1	/	4	2315.050	-40.28	-13	Pass
2316	2345	1	CHP	5	2329.700	-45.93	-37	Pass



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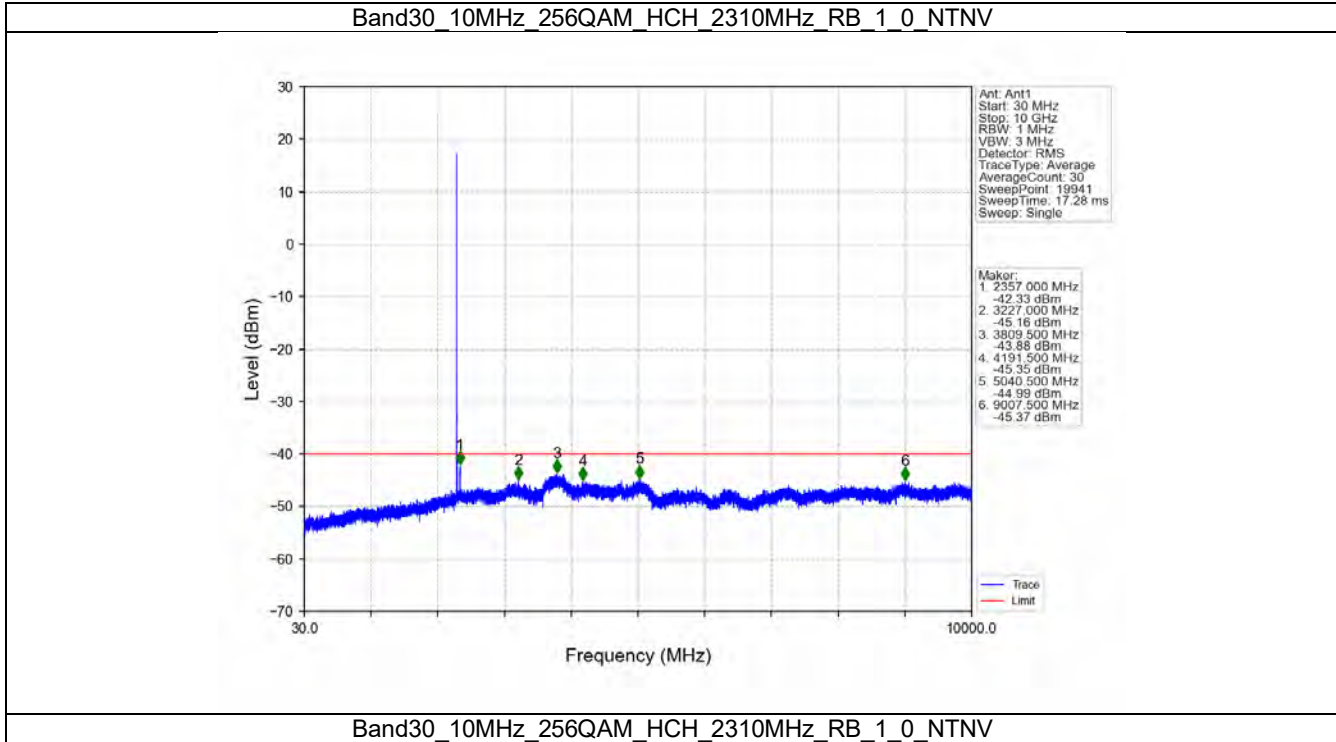


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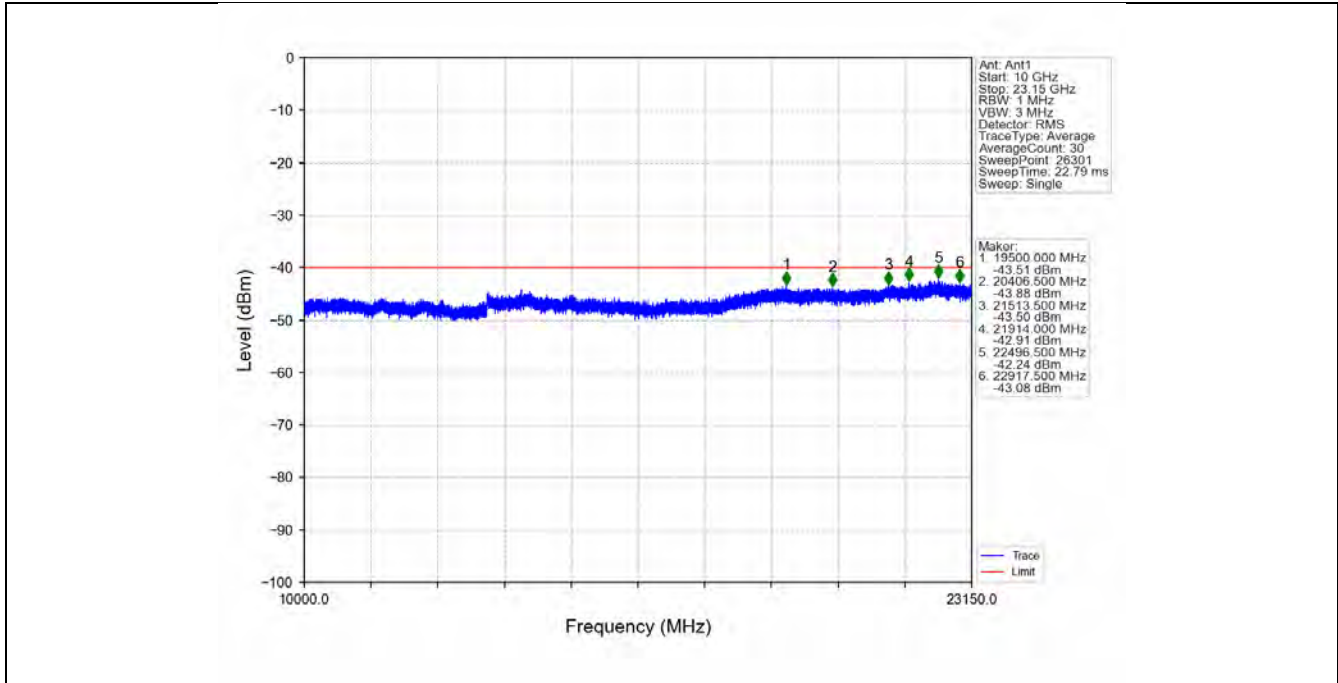


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Rev.: 01

Page: 156 of 159



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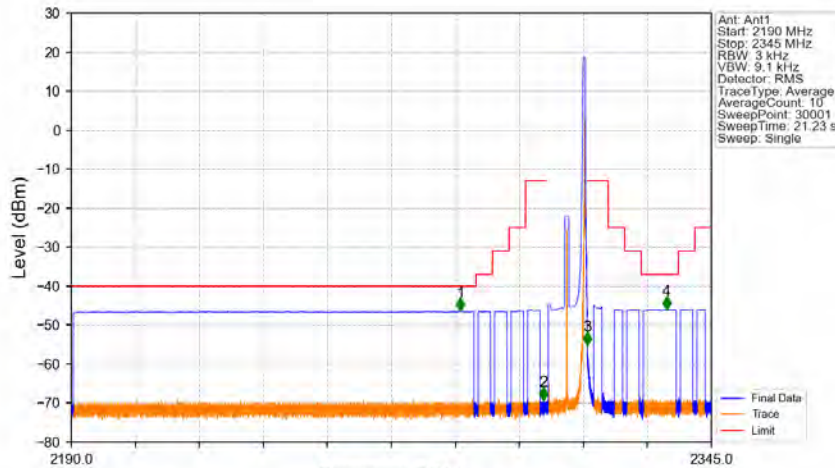
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Report No.: SZCR240100038408

Rev.: 01

Page: 157 of 159

Band30_10MHz_256QAM_HCH_2310MHz_RB_1_49_NTNV



Band30_10MHz_256QAM_HCH_2310MHz_RB_50_0_NTNV



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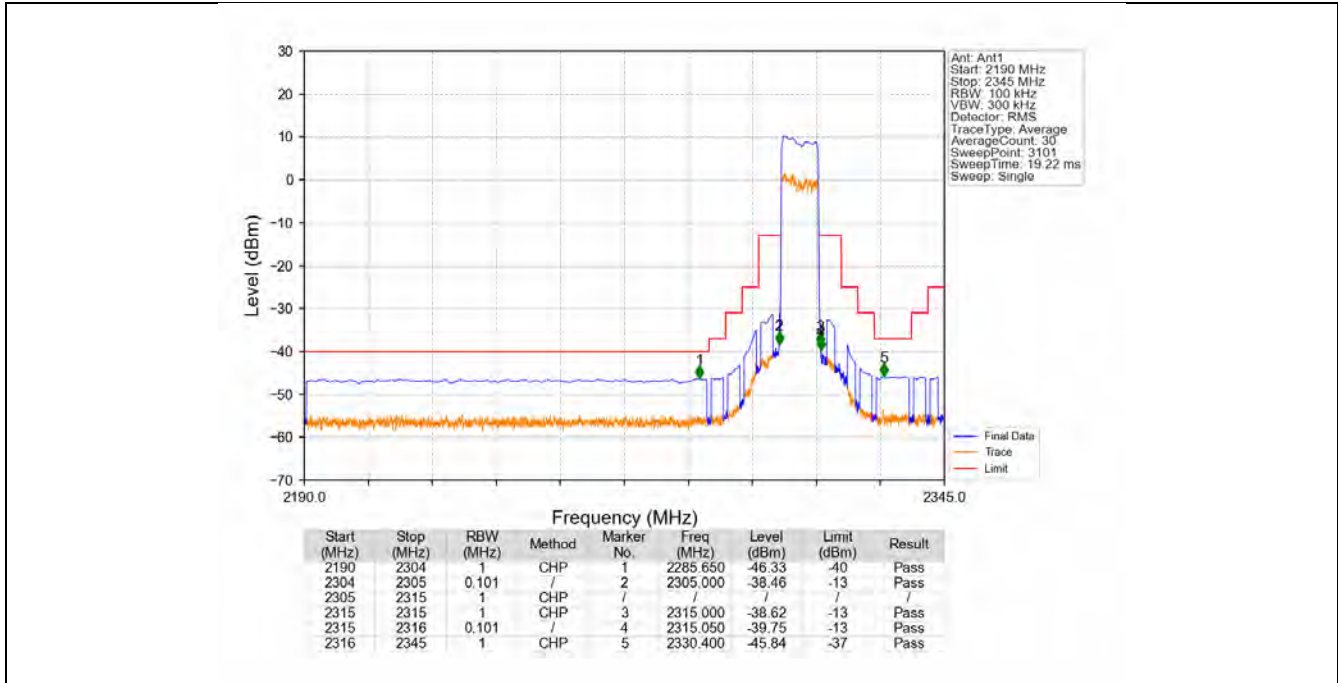


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Report No.: SZCR240100038408

Rev.: 01

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Report No.: SZCR240100038408

Rev.: 01

Page: 159 of 159

6. Field Strength of Spurious Radiation

LTE Band 30-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4610.5	-54.57	-13	-41.57	-60.03	3.94	9.4	Horizontal	Pass
6915.75	-51.01	-13	-38.01	-57.295	4.21	10.49	Horizontal	Pass
9221	-48.53	-13	-35.53	-57.17	4.57	13.21	Horizontal	Pass
4610.5	-54.95	-13	-41.95	-60.41	3.94	9.4	Vertical	Pass
6915.75	-50.82	-13	-37.82	-57.105	4.21	10.49	Vertical	Pass
9221	-48.85	-13	-35.85	-57.49	4.57	13.21	Vertical	Pass

LTE Band 30-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4615.5	-55.58	-13	-42.58	-61.04	3.94	9.4	Horizontal	Pass
6923.25	-50.86	-13	-37.86	-57.145	4.21	10.49	Horizontal	Pass
9231	-48.98	-13	-35.98	-57.62	4.57	13.21	Horizontal	Pass
4615.5	-54.36	-13	-41.36	-59.82	3.94	9.4	Vertical	Pass
6923.25	-51.26	-13	-38.26	-57.545	4.21	10.49	Vertical	Pass
9231	-48.76	-13	-35.76	-57.4	4.57	13.21	Vertical	Pass

LTE Band 30-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4620.5	-55.41	-13	-42.41	-60.87	3.94	9.4	Horizontal	Pass
6930.75	-51.4	-13	-38.4	-57.685	4.21	10.49	Horizontal	Pass
9241	-48.22	-13	-35.22	-56.86	4.57	13.21	Horizontal	Pass
4620.5	-56.13	-13	-43.13	-61.59	3.94	9.4	Vertical	Pass
6930.75	-51.81	-13	-38.81	-58.095	4.21	10.49	Vertical	Pass
9241	-48.07	-13	-35.07	-56.71	4.57	13.21	Vertical	Pass

---End of Attachment---



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