



Annex for LTE Band 38

Test Report No.: CTL2405163031-WF

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	21.65	1.08	22.73	<=33.01	Pass
			13	21.69	1.08	22.77	<=33.01	Pass
			24	21.54	1.08	22.62	<=33.01	Pass
		12	0	20.85	1.08	21.93	<=33.01	Pass
			6	20.87	1.08	21.95	<=33.01	Pass
			13	20.78	1.08	21.86	<=33.01	Pass
		25	0	20.89	1.08	21.97	<=33.01	Pass
	2595	1	0	21.93	1.08	23.01	<=33.01	Pass
			13	21.86	1.08	22.94	<=33.01	Pass
			24	22.04	1.08	23.12	<=33.01	Pass
		12	0	20.92	1.08	22.00	<=33.01	Pass
			6	20.95	1.08	22.03	<=33.01	Pass
			13	20.92	1.08	22.00	<=33.01	Pass
		25	0	20.92	1.08	22.00	<=33.01	Pass
	2617.5	1	0	22.04	1.08	23.12	<=33.01	Pass
			13	21.99	1.08	23.07	<=33.01	Pass
			24	21.98	1.08	23.06	<=33.01	Pass
		12	0	21.12	1.08	22.20	<=33.01	Pass
			6	21.15	1.08	22.23	<=33.01	Pass
			13	21.05	1.08	22.13	<=33.01	Pass
		25	0	21.06	1.08	22.14	<=33.01	Pass
16QAM	2572.5	1	0	20.43	1.08	21.51	<=33.01	Pass
			13	20.76	1.08	21.84	<=33.01	Pass
			24	20.23	1.08	21.31	<=33.01	Pass
		12	0	19.80	1.08	20.88	<=33.01	Pass
			6	19.85	1.08	20.93	<=33.01	Pass
			13	19.71	1.08	20.79	<=33.01	Pass
		25	0	19.72	1.08	20.80	<=33.01	Pass
	2595	1	0	20.70	1.08	21.78	<=33.01	Pass
			13	20.67	1.08	21.75	<=33.01	Pass
			24	20.75	1.08	21.83	<=33.01	Pass
		12	0	19.84	1.08	20.92	<=33.01	Pass
			6	19.86	1.08	20.94	<=33.01	Pass
			13	19.80	1.08	20.88	<=33.01	Pass
		25	0	19.89	1.08	20.97	<=33.01	Pass
	2617.5	1	0	21.16	1.08	22.24	<=33.01	Pass
			13	21.22	1.08	22.30	<=33.01	Pass
			24	21.24	1.08	22.32	<=33.01	Pass
		12	0	19.81	1.08	20.89	<=33.01	Pass
			6	20.13	1.08	21.21	<=33.01	Pass
			13	19.79	1.08	20.87	<=33.01	Pass
		25	0	20.00	1.08	21.08	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

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1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	21.81	1.08	22.89	<=33.01	Pass
			25	21.81	1.08	22.89	<=33.01	Pass
			49	21.98	1.08	23.06	<=33.01	Pass
		25	0	20.92	1.08	22.00	<=33.01	Pass
			13	20.91	1.08	21.99	<=33.01	Pass
			25	20.97	1.08	22.05	<=33.01	Pass
		50	0	20.98	1.08	22.06	<=33.01	Pass
	2595	1	0	21.85	1.08	22.93	<=33.01	Pass
			25	22.03	1.08	23.11	<=33.01	Pass
			49	21.76	1.08	22.84	<=33.01	Pass
		25	0	21.02	1.08	22.10	<=33.01	Pass
			13	20.95	1.08	22.03	<=33.01	Pass
			25	20.91	1.08	21.99	<=33.01	Pass
		50	0	21.03	1.08	22.11	<=33.01	Pass
	2615	1	0	21.97	1.08	23.05	<=33.01	Pass
			25	22.16	1.08	23.24	<=33.01	Pass
			49	21.93	1.08	23.01	<=33.01	Pass
		25	0	20.90	1.08	21.98	<=33.01	Pass
			13	21.01	1.08	22.09	<=33.01	Pass
			25	20.97	1.08	22.05	<=33.01	Pass
		50	0	21.01	1.08	22.09	<=33.01	Pass
16QAM	2575	1	0	20.74	1.08	21.82	<=33.01	Pass
			25	20.76	1.08	21.84	<=33.01	Pass
			49	20.87	1.08	21.95	<=33.01	Pass
		25	0	19.93	1.08	21.01	<=33.01	Pass
			13	19.92	1.08	21.00	<=33.01	Pass
			25	19.92	1.08	21.00	<=33.01	Pass
		50	0	20.02	1.08	21.10	<=33.01	Pass
	2595	1	0	21.01	1.08	22.09	<=33.01	Pass
			25	20.96	1.08	22.04	<=33.01	Pass
			49	20.99	1.08	22.07	<=33.01	Pass
		25	0	20.05	1.08	21.13	<=33.01	Pass
			13	19.97	1.08	21.05	<=33.01	Pass
			25	19.93	1.08	21.01	<=33.01	Pass
		50	0	20.01	1.08	21.09	<=33.01	Pass
	2615	1	0	21.42	1.08	22.50	<=33.01	Pass
			25	21.46	1.08	22.54	<=33.01	Pass
			49	21.53	1.08	22.61	<=33.01	Pass
		25	0	19.96	1.08	21.04	<=33.01	Pass
			13	20.00	1.08	21.08	<=33.01	Pass
			25	20.19	1.08	21.27	<=33.01	Pass
		50	0	20.02	1.08	21.10	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	21.89	1.08	22.97	<=33.01	Pass
			38	22.05	1.08	23.13	<=33.01	Pass
			74	22.02	1.08	23.10	<=33.01	Pass
		36	0	21.02	1.08	22.10	<=33.01	Pass

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16QAM	2595	75	18	21.06	1.08	22.14	<=33.01	Pass
			39	20.87	1.08	21.95	<=33.01	Pass
			0	21.01	1.08	22.09	<=33.01	Pass
		1	0	22.01	1.08	23.09	<=33.01	Pass
			38	21.80	1.08	22.88	<=33.01	Pass
			74	21.79	1.08	22.87	<=33.01	Pass
		36	0	21.04	1.08	22.12	<=33.01	Pass
			18	20.98	1.08	22.06	<=33.01	Pass
			39	20.94	1.08	22.02	<=33.01	Pass
		75	0	20.98	1.08	22.06	<=33.01	Pass
	2612.5	1	0	21.90	1.08	22.98	<=33.01	Pass
			38	21.98	1.08	23.06	<=33.01	Pass
			74	22.10	1.08	23.18	<=33.01	Pass
		36	0	20.92	1.08	22.00	<=33.01	Pass
			18	21.03	1.08	22.11	<=33.01	Pass
			39	20.98	1.08	22.06	<=33.01	Pass
		75	0	20.97	1.08	22.05	<=33.01	Pass
	2577.5	1	0	20.76	1.08	21.84	<=33.01	Pass
			38	20.79	1.08	21.87	<=33.01	Pass
			74	21.11	1.08	22.19	<=33.01	Pass
		36	0	19.88	1.08	20.96	<=33.01	Pass
			18	19.91	1.08	20.99	<=33.01	Pass
			39	19.78	1.08	20.86	<=33.01	Pass
		75	0	19.97	1.08	21.05	<=33.01	Pass
	2595	1	0	21.37	1.08	22.45	<=33.01	Pass
			38	20.63	1.08	21.71	<=33.01	Pass
			74	21.18	1.08	22.26	<=33.01	Pass
		36	0	19.82	1.08	20.90	<=33.01	Pass
			18	19.96	1.08	21.04	<=33.01	Pass
			39	19.87	1.08	20.95	<=33.01	Pass
		75	0	20.06	1.08	21.14	<=33.01	Pass
	2612.5	1	0	21.32	1.08	22.40	<=33.01	Pass
			38	20.94	1.08	22.02	<=33.01	Pass
			74	21.46	1.08	22.54	<=33.01	Pass
		36	0	19.99	1.08	21.07	<=33.01	Pass
			18	20.19	1.08	21.27	<=33.01	Pass
			39	19.96	1.08	21.04	<=33.01	Pass
		75	0	19.99	1.08	21.07	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	21.76	1.08	22.84	<=33.01	Pass
			50	22.11	1.08	23.19	<=33.01	Pass
			99	21.67	1.08	22.75	<=33.01	Pass
		50	0	20.93	1.08	22.01	<=33.01	Pass
			25	20.94	1.08	22.02	<=33.01	Pass
			50	20.88	1.08	21.96	<=33.01	Pass
	2595	100	0	20.90	1.08	21.98	<=33.01	Pass
		1	0	21.84	1.08	22.92	<=33.01	Pass
			50	21.89	1.08	22.97	<=33.01	Pass
			99	21.68	1.08	22.76	<=33.01	Pass
		50	0	20.92	1.08	22.00	<=33.01	Pass
			25	20.85	1.08	21.93	<=33.01	Pass

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16QAM	2610	100	50	20.75	1.08	21.83	<=33.01	Pass
			0	20.77	1.08	21.85	<=33.01	Pass
			0	21.53	1.08	22.61	<=33.01	Pass
		1	50	21.68	1.08	22.76	<=33.01	Pass
			99	21.68	1.08	22.76	<=33.01	Pass
			0	20.68	1.08	21.76	<=33.01	Pass
		50	25	20.85	1.08	21.93	<=33.01	Pass
			50	20.71	1.08	21.79	<=33.01	Pass
		100	0	20.72	1.08	21.80	<=33.01	Pass
	2580	1	0	21.18	1.08	22.26	<=33.01	Pass
			50	21.42	1.08	22.50	<=33.01	Pass
			99	21.04	1.08	22.12	<=33.01	Pass
		50	0	20.09	1.08	21.17	<=33.01	Pass
			25	19.96	1.08	21.04	<=33.01	Pass
			50	20.05	1.08	21.13	<=33.01	Pass
		100	0	19.95	1.08	21.03	<=33.01	Pass
	2595	1	0	20.92	1.08	22.00	<=33.01	Pass
			50	20.95	1.08	22.03	<=33.01	Pass
			99	20.72	1.08	21.80	<=33.01	Pass
		50	0	19.90	1.08	20.98	<=33.01	Pass
			25	20.05	1.08	21.13	<=33.01	Pass
			50	19.72	1.08	20.80	<=33.01	Pass
		100	0	19.97	1.08	21.05	<=33.01	Pass
	2610	1	0	21.08	1.08	22.16	<=33.01	Pass
			50	20.86	1.08	21.94	<=33.01	Pass
			99	20.64	1.08	21.72	<=33.01	Pass
		50	0	19.93	1.08	21.01	<=33.01	Pass
			25	19.92	1.08	21.00	<=33.01	Pass
			50	19.92	1.08	21.00	<=33.01	Pass
		100	0	19.79	1.08	20.87	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.27	9.155	0.0036	-2.5 to 2.5	Pass
					3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
					4.43	6.480	0.0025	-2.5 to 2.5	Pass
				-30	3.85	-3.591	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-5.236	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	6.022	0.0023	-2.5 to 2.5	Pass
				0	3.85	7.868	0.0031	-2.5 to 2.5	Pass
				10	3.85	9.670	0.0038	-2.5 to 2.5	Pass
				30	3.85	-1.860	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-4.749	-0.0018	-2.5 to 2.5	Pass
				50	3.85	6.495	0.0025	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	8.225	0.0032	-2.5 to 2.5	Pass
					3.85	-1.745	-0.0007	-2.5 to 2.5	Pass
					4.43	-2.260	-0.0009	-2.5 to 2.5	Pass

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				-30	3.85	10.300	0.0040	-2.5 to 2.5	Pass
				-20	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				-10	3.85	7.668	0.0030	-2.5 to 2.5	Pass
				0	3.85	-2.432	-0.0009	-2.5 to 2.5	Pass
				10	3.85	5.779	0.0022	-2.5 to 2.5	Pass
				30	3.85	-4.849	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-4.077	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-2.947	-0.0011	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	-4.435	-0.0017	-2.5 to 2.5	Pass
					3.85	-3.991	-0.0015	-2.5 to 2.5	Pass
					4.43	9.027	0.0034	-2.5 to 2.5	Pass
				-30	3.85	6.881	0.0026	-2.5 to 2.5	Pass
				-20	3.85	7.253	0.0028	-2.5 to 2.5	Pass
				-10	3.85	-3.262	-0.0012	-2.5 to 2.5	Pass
				0	3.85	7.224	0.0028	-2.5 to 2.5	Pass
				10	3.85	-2.103	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-6.266	-0.0024	-2.5 to 2.5	Pass
				40	3.85	6.809	0.0026	-2.5 to 2.5	Pass
				50	3.85	-4.249	-0.0016	-2.5 to 2.5	Pass
	16QAM	25	0	20	3.27	9.756	0.0038	-2.5 to 2.5	Pass
					3.85	-4.463	-0.0017	-2.5 to 2.5	Pass
					4.43	-3.061	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-6.266	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	6.909	0.0027	-2.5 to 2.5	Pass
				0	3.85	9.956	0.0039	-2.5 to 2.5	Pass
				10	3.85	8.798	0.0034	-2.5 to 2.5	Pass
				30	3.85	-3.047	-0.0012	-2.5 to 2.5	Pass
				40	3.85	8.769	0.0034	-2.5 to 2.5	Pass
				50	3.85	-2.546	-0.0010	-2.5 to 2.5	Pass
		2595	0	20	3.27	-3.419	-0.0013	-2.5 to 2.5	Pass
					3.85	-1.731	-0.0007	-2.5 to 2.5	Pass
					4.43	4.835	0.0019	-2.5 to 2.5	Pass
				-30	3.85	7.281	0.0028	-2.5 to 2.5	Pass
				-20	3.85	5.507	0.0021	-2.5 to 2.5	Pass
				-10	3.85	-2.432	-0.0009	-2.5 to 2.5	Pass
				0	3.85	9.041	0.0035	-2.5 to 2.5	Pass
				10	3.85	9.227	0.0036	-2.5 to 2.5	Pass
				30	3.85	6.251	0.0024	-2.5 to 2.5	Pass
				40	3.85	-2.789	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
		2617.5	0	20	3.27	-3.505	-0.0013	-2.5 to 2.5	Pass
					3.85	10.643	0.0041	-2.5 to 2.5	Pass
					4.43	7.038	0.0027	-2.5 to 2.5	Pass
				-30	3.85	-2.432	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-5.479	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-1.144	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass
				10	3.85	9.012	0.0034	-2.5 to 2.5	Pass
				30	3.85	-2.232	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-3.333	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-0.958	-0.0004	-2.5 to 2.5	Pass

2.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

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	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	2575	50	0	20	3.27	1.831	0.0007	-2.5 to 2.5	Pass
					3.85	10.715	0.0042	-2.5 to 2.5	Pass
					4.43	9.727	0.0038	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	9.713	0.0038	-2.5 to 2.5	Pass
				-10	3.85	-1.802	-0.0007	-2.5 to 2.5	Pass
				0	3.85	3.262	0.0013	-2.5 to 2.5	Pass
				10	3.85	2.060	0.0008	-2.5 to 2.5	Pass
				30	3.85	1.988	0.0008	-2.5 to 2.5	Pass
				40	3.85	14.191	0.0055	-2.5 to 2.5	Pass
				50	3.85	12.274	0.0048	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	4.048	0.0016	-2.5 to 2.5	Pass
					3.85	8.469	0.0033	-2.5 to 2.5	Pass
					4.43	7.596	0.0029	-2.5 to 2.5	Pass
				-30	3.85	6.480	0.0025	-2.5 to 2.5	Pass
				-20	3.85	3.991	0.0015	-2.5 to 2.5	Pass
				-10	3.85	-2.632	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-3.505	-0.0014	-2.5 to 2.5	Pass
				10	3.85	5.121	0.0020	-2.5 to 2.5	Pass
				30	3.85	-4.420	-0.0017	-2.5 to 2.5	Pass
				40	3.85	6.137	0.0024	-2.5 to 2.5	Pass
				50	3.85	-2.518	-0.0010	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	2.260	0.0009	-2.5 to 2.5	Pass
					3.85	9.427	0.0036	-2.5 to 2.5	Pass
					4.43	2.918	0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.760	0.0007	-2.5 to 2.5	Pass
				-20	3.85	11.487	0.0044	-2.5 to 2.5	Pass
				-10	3.85	3.219	0.0012	-2.5 to 2.5	Pass
				0	3.85	10.800	0.0041	-2.5 to 2.5	Pass
				10	3.85	16.050	0.0061	-2.5 to 2.5	Pass
				30	3.85	12.560	0.0048	-2.5 to 2.5	Pass
				40	3.85	12.102	0.0046	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.27	0.186	0.0001	-2.5 to 2.5	Pass
					3.85	9.656	0.0037	-2.5 to 2.5	Pass
					4.43	0.515	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0002	-2.5 to 2.5	Pass
				-10	3.85	1.845	0.0007	-2.5 to 2.5	Pass
				0	3.85	14.420	0.0056	-2.5 to 2.5	Pass
				10	3.85	15.693	0.0061	-2.5 to 2.5	Pass
				30	3.85	13.647	0.0053	-2.5 to 2.5	Pass
				40	3.85	12.889	0.0050	-2.5 to 2.5	Pass
				50	3.85	0.658	0.0003	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	4.635	0.0018	-2.5 to 2.5	Pass
					3.85	-4.249	-0.0016	-2.5 to 2.5	Pass
					4.43	8.869	0.0034	-2.5 to 2.5	Pass
				-30	3.85	4.435	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-2.117	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-2.818	-0.0011	-2.5 to 2.5	Pass
				10	3.85	7.238	0.0028	-2.5 to 2.5	Pass
				30	3.85	-2.489	-0.0010	-2.5 to 2.5	Pass
				40	3.85	7.954	0.0031	-2.5 to 2.5	Pass
				50	3.85	-2.475	-0.0010	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-0.472	-0.0002	-2.5 to 2.5	Pass
					3.85	4.177	0.0016	-2.5 to 2.5	Pass

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					4.43	3.476	0.0013	-2.5 to 2.5	Pass
				-30	3.85	1.016	0.0004	-2.5 to 2.5	Pass
				-20	3.85	10.972	0.0042	-2.5 to 2.5	Pass
				-10	3.85	5.550	0.0021	-2.5 to 2.5	Pass
				0	3.85	15.249	0.0058	-2.5 to 2.5	Pass
				10	3.85	3.963	0.0015	-2.5 to 2.5	Pass
				30	3.85	3.176	0.0012	-2.5 to 2.5	Pass
				40	3.85	9.441	0.0036	-2.5 to 2.5	Pass
				50	3.85	13.704	0.0052	-2.5 to 2.5	Pass

2.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.27	2.418	0.0009	-2.5 to 2.5	Pass
					3.85	1.559	0.0006	-2.5 to 2.5	Pass
					4.43	12.045	0.0047	-2.5 to 2.5	Pass
				-30	3.85	2.389	0.0009	-2.5 to 2.5	Pass
				-20	3.85	16.193	0.0063	-2.5 to 2.5	Pass
				-10	3.85	0.844	0.0003	-2.5 to 2.5	Pass
				0	3.85	15.907	0.0062	-2.5 to 2.5	Pass
				10	3.85	12.016	0.0047	-2.5 to 2.5	Pass
				30	3.85	11.859	0.0046	-2.5 to 2.5	Pass
				40	3.85	14.062	0.0055	-2.5 to 2.5	Pass
				50	3.85	10.901	0.0042	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-1.931	-0.0007	-2.5 to 2.5	Pass
					3.85	0.043	0.0000	-2.5 to 2.5	Pass
					4.43	-2.518	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-2.060	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	9.699	0.0037	-2.5 to 2.5	Pass
				0	3.85	6.824	0.0026	-2.5 to 2.5	Pass
				10	3.85	-4.478	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-4.506	-0.0017	-2.5 to 2.5	Pass
				40	3.85	7.210	0.0028	-2.5 to 2.5	Pass
				50	3.85	-0.587	-0.0002	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	12.960	0.0050	-2.5 to 2.5	Pass
					3.85	-2.174	-0.0008	-2.5 to 2.5	Pass
					4.43	2.174	0.0008	-2.5 to 2.5	Pass
				-30	3.85	9.456	0.0036	-2.5 to 2.5	Pass
				-20	3.85	11.916	0.0046	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0002	-2.5 to 2.5	Pass
				0	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				10	3.85	-1.945	-0.0007	-2.5 to 2.5	Pass
				30	3.85	10.142	0.0039	-2.5 to 2.5	Pass
				40	3.85	10.858	0.0042	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.27	2.546	0.0010	-2.5 to 2.5	Pass
					3.85	12.317	0.0048	-2.5 to 2.5	Pass
					4.43	1.502	0.0006	-2.5 to 2.5	Pass
				-30	3.85	9.384	0.0036	-2.5 to 2.5	Pass
				-20	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.687	0.0003	-2.5 to 2.5	Pass
				0	3.85	11.687	0.0045	-2.5 to 2.5	Pass
				10	3.85	1.144	0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.087	-0.0004	-2.5 to 2.5	Pass

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				40	3.85	4.420	0.0017	-2.5 to 2.5	Pass
				50	3.85	14.048	0.0055	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	5.164	0.0020	-2.5 to 2.5	Pass
					3.85	-2.103	-0.0008	-2.5 to 2.5	Pass
					4.43	10.171	0.0039	-2.5 to 2.5	Pass
				-30	3.85	5.522	0.0021	-2.5 to 2.5	Pass
				-20	3.85	7.854	0.0030	-2.5 to 2.5	Pass
				-10	3.85	4.807	0.0019	-2.5 to 2.5	Pass
				0	3.85	6.180	0.0024	-2.5 to 2.5	Pass
				10	3.85	-0.873	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-3.605	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.958	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-3.648	-0.0014	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-2.446	-0.0009	-2.5 to 2.5	Pass
					3.85	11.673	0.0045	-2.5 to 2.5	Pass
					4.43	11.587	0.0044	-2.5 to 2.5	Pass
				-30	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-2.275	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	10.514	0.0040	-2.5 to 2.5	Pass
				0	3.85	2.317	0.0009	-2.5 to 2.5	Pass
				10	3.85	9.141	0.0035	-2.5 to 2.5	Pass
				30	3.85	0.315	0.0001	-2.5 to 2.5	Pass
				40	3.85	13.776	0.0053	-2.5 to 2.5	Pass
				50	3.85	-0.100	0.0000	-2.5 to 2.5	Pass

2.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.27	5.550	0.0022	-2.5 to 2.5	Pass
					3.85	-1.488	-0.0006	-2.5 to 2.5	Pass
					4.43	-4.206	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	7.639	0.0030	-2.5 to 2.5	Pass
				-20	3.85	6.552	0.0025	-2.5 to 2.5	Pass
				-10	3.85	6.180	0.0024	-2.5 to 2.5	Pass
				0	3.85	7.267	0.0028	-2.5 to 2.5	Pass
				10	3.85	-5.164	-0.0020	-2.5 to 2.5	Pass
				30	3.85	6.824	0.0026	-2.5 to 2.5	Pass
				40	3.85	7.954	0.0031	-2.5 to 2.5	Pass
				50	3.85	8.969	0.0035	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-2.789	-0.0011	-2.5 to 2.5	Pass
					3.85	8.125	0.0031	-2.5 to 2.5	Pass
					4.43	-6.337	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	4.907	0.0019	-2.5 to 2.5	Pass
				-10	3.85	-2.689	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass
				10	3.85	7.668	0.0030	-2.5 to 2.5	Pass
				30	3.85	-2.618	-0.0010	-2.5 to 2.5	Pass
				40	3.85	8.397	0.0032	-2.5 to 2.5	Pass
				50	3.85	7.668	0.0030	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	9.055	0.0035	-2.5 to 2.5	Pass
					3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
					4.43	10.929	0.0042	-2.5 to 2.5	Pass
				-30	3.85	-2.961	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-1.702	-0.0007	-2.5 to 2.5	Pass

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16QAM				-10	3.85	10.614	0.0041	-2.5 to 2.5	Pass
				0	3.85	-3.090	-0.0012	-2.5 to 2.5	Pass
				10	3.85	10.357	0.0040	-2.5 to 2.5	Pass
				30	3.85	-3.147	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-3.834	-0.0015	-2.5 to 2.5	Pass
	2580	100	0	50	3.85	8.526	0.0033	-2.5 to 2.5	Pass
				20	3.27	5.507	0.0021	-2.5 to 2.5	Pass
					3.85	7.954	0.0031	-2.5 to 2.5	Pass
					4.43	9.398	0.0036	-2.5 to 2.5	Pass
				-30	3.85	-3.977	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	8.211	0.0032	-2.5 to 2.5	Pass
				-10	3.85	-3.133	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-0.987	-0.0004	-2.5 to 2.5	Pass
				10	3.85	7.896	0.0031	-2.5 to 2.5	Pass
				30	3.85	-4.249	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-2.632	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-6.337	-0.0025	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-2.918	-0.0011	-2.5 to 2.5	Pass
					3.85	8.197	0.0032	-2.5 to 2.5	Pass
					4.43	-2.432	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-2.761	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	8.039	0.0031	-2.5 to 2.5	Pass
				-10	3.85	7.124	0.0027	-2.5 to 2.5	Pass
				0	3.85	-2.074	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				30	3.85	7.339	0.0028	-2.5 to 2.5	Pass
				40	3.85	-1.044	-0.0004	-2.5 to 2.5	Pass
	2610	100	0	50	3.85	5.150	0.0020	-2.5 to 2.5	Pass
				20	3.27	7.896	0.0030	-2.5 to 2.5	Pass
					3.85	8.168	0.0031	-2.5 to 2.5	Pass
					4.43	-3.648	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-4.721	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	7.381	0.0028	-2.5 to 2.5	Pass
				-10	3.85	-2.217	-0.0008	-2.5 to 2.5	Pass
				0	3.85	9.699	0.0037	-2.5 to 2.5	Pass
				10	3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-3.204	-0.0012	-2.5 to 2.5	Pass
				40	3.85	9.713	0.0037	-2.5 to 2.5	Pass
				50	3.85	-3.304	-0.0013	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	2595	25	0	Refer To Test Graph	Pass
16QAM	2595	25	0	Refer To Test Graph	Pass

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3.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	50	0	Refer To Test Graph		Pass
16QAM	2595	50	0	Refer To Test Graph		Pass

3.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

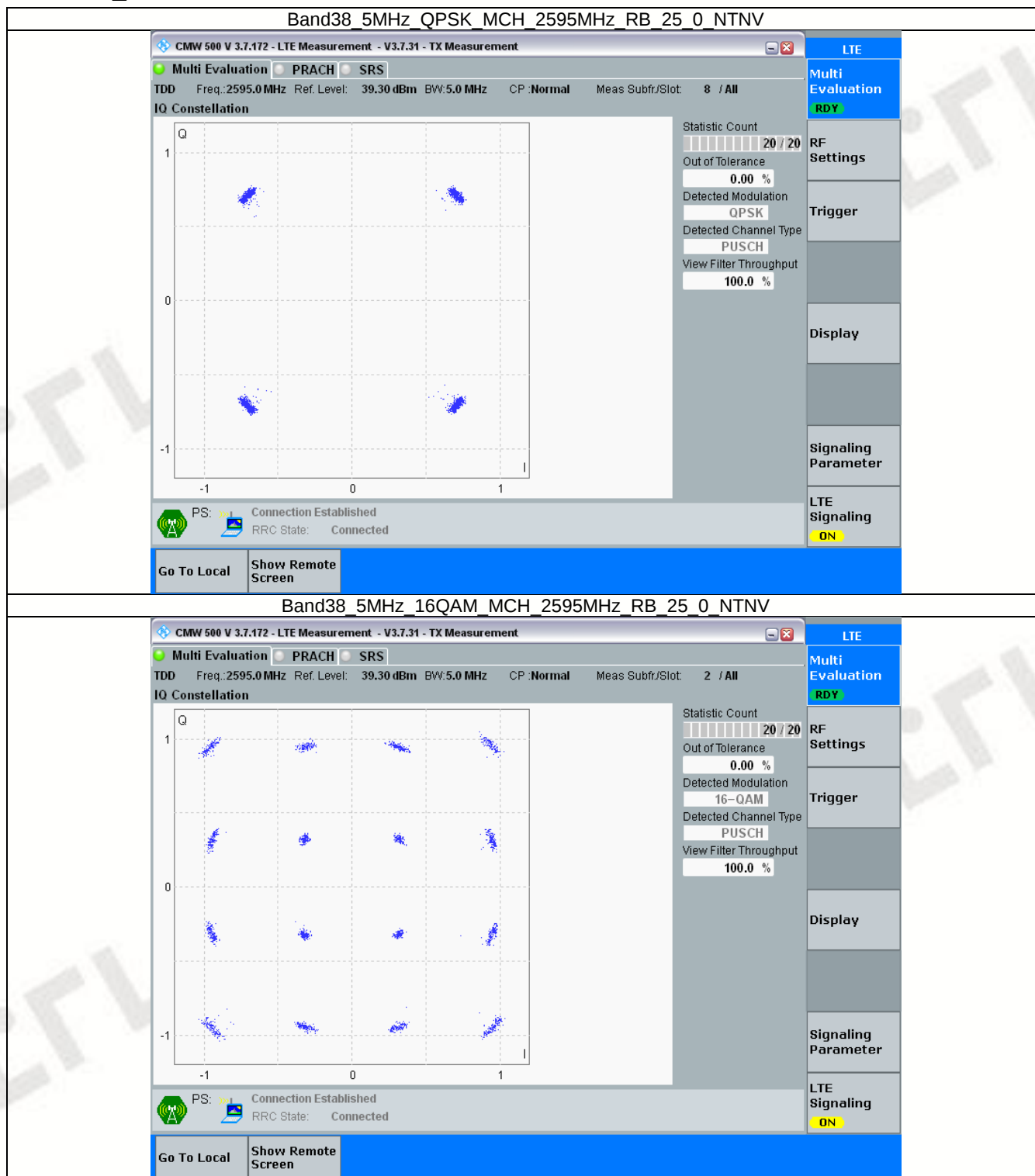
3.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

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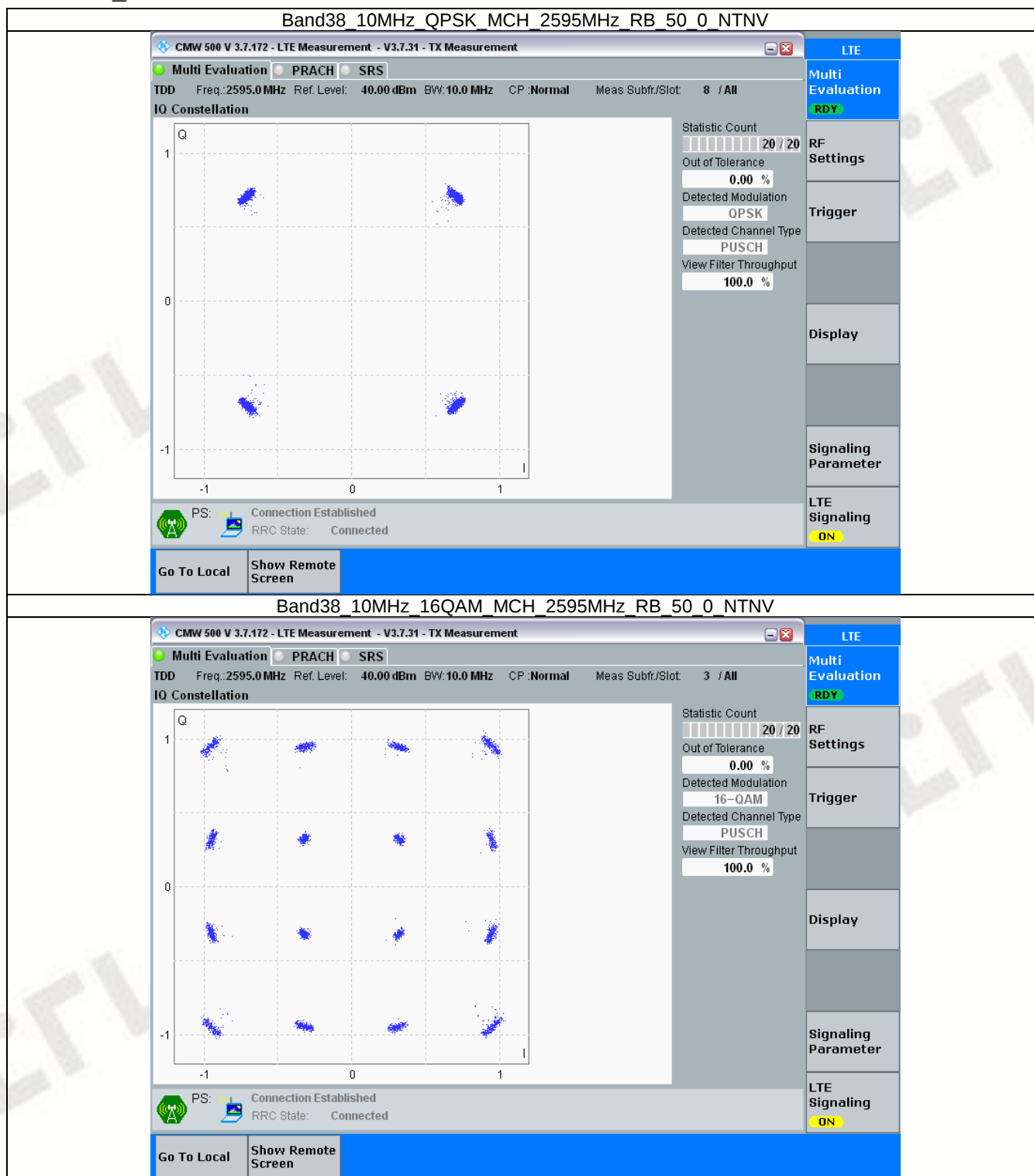
3.2 Test Graph

3.2.1 B38_5MHz



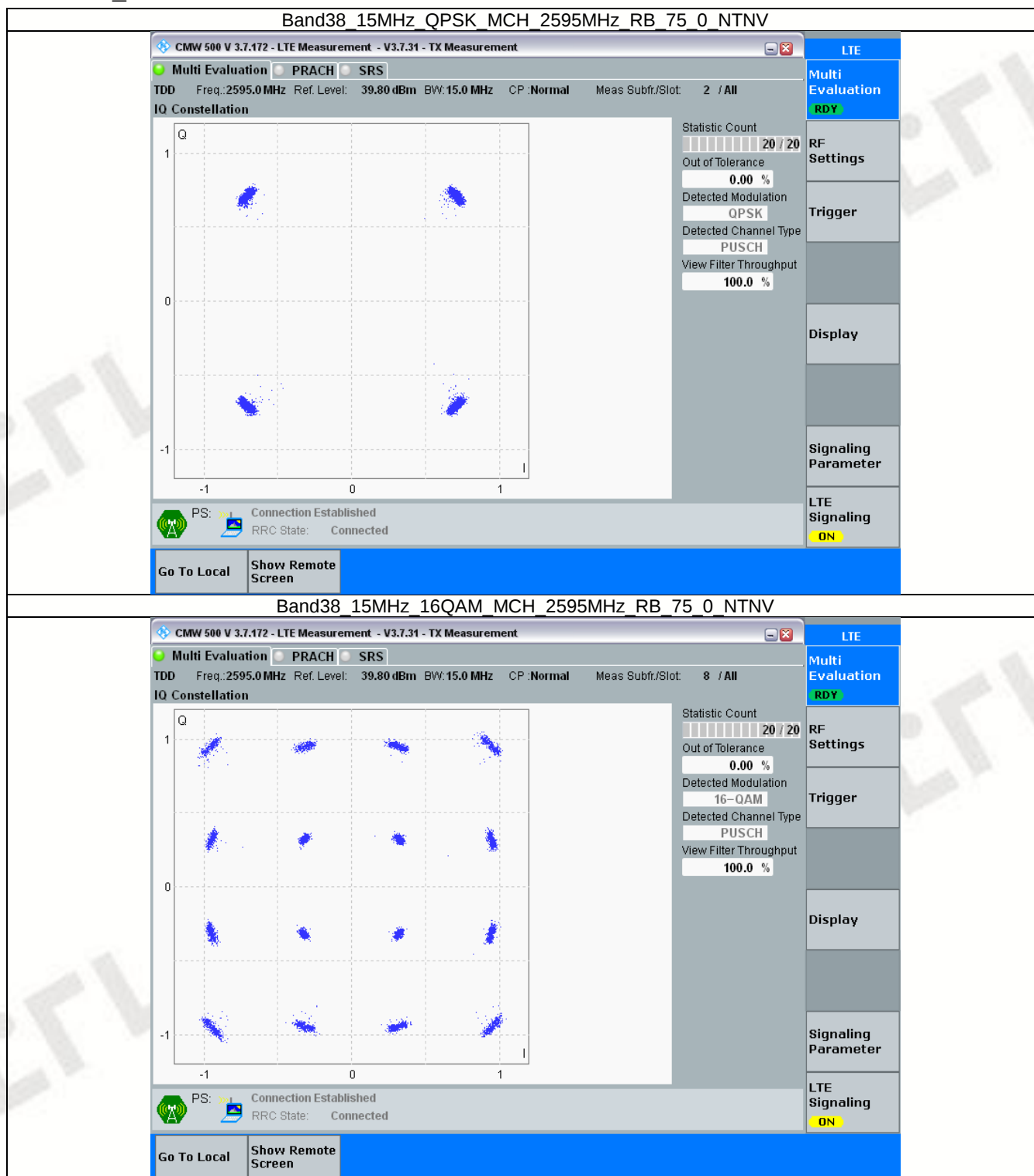
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3.2.2 B38_10MHz



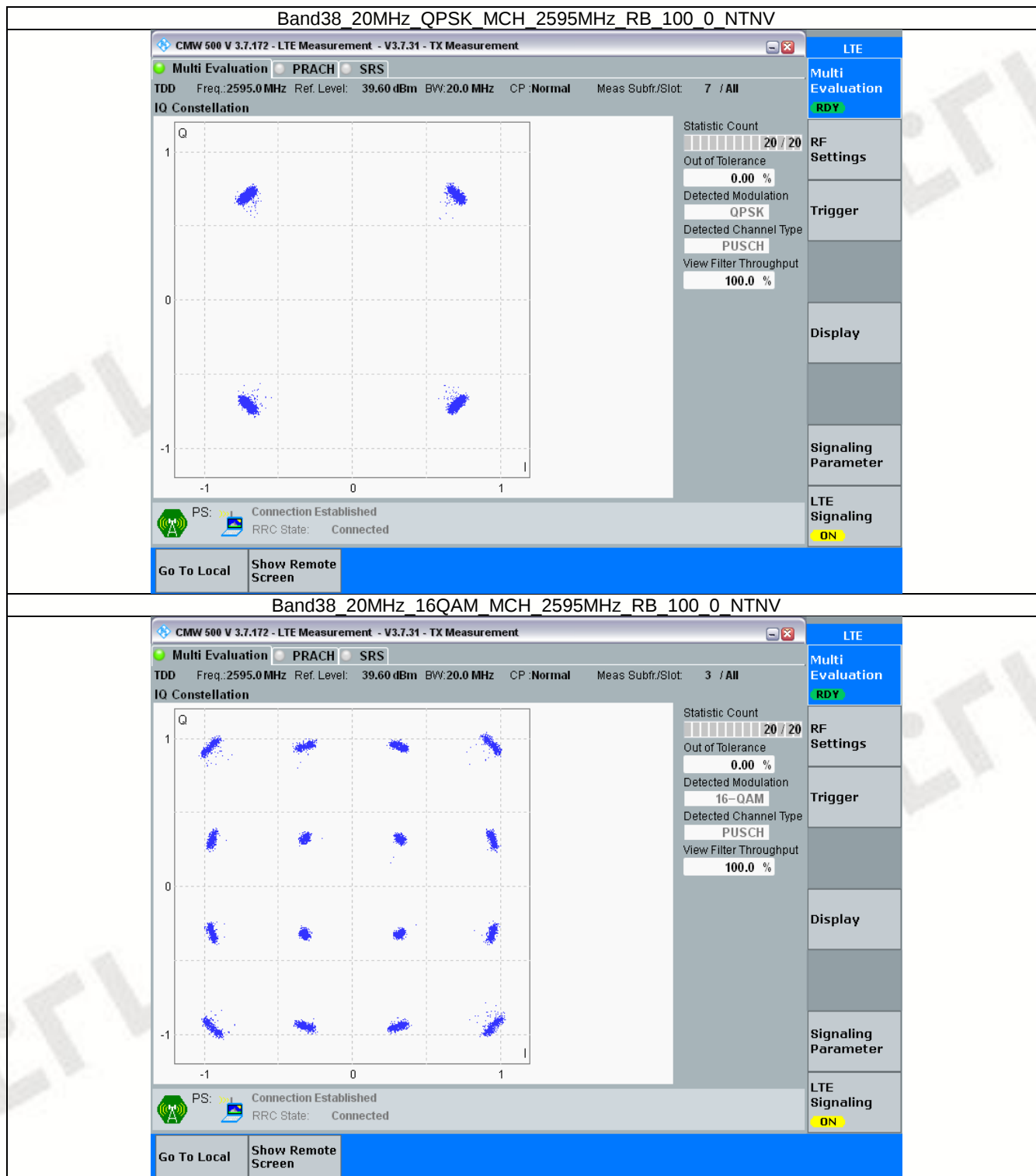
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3.2.3 B38_15MHz



FCCID: 2BCUE-P8GLOBAL

3.2.4 B38_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band38_OBW

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.576	/	Pass
		2595	25	0	4.566	/	Pass
		2617.5	25	0	4.568	/	Pass
	16QAM	2572.5	25	0	4.562	/	Pass
		2595	25	0	4.545	/	Pass
		2617.5	25	0	4.593	/	Pass
10	QPSK	2575	50	0	9.047	/	Pass
		2595	50	0	9.041	/	Pass
		2615	50	0	9.051	/	Pass
	16QAM	2575	50	0	9.065	/	Pass
		2595	50	0	9.092	/	Pass
		2615	50	0	9.038	/	Pass
15	QPSK	2577.5	75	0	13.560	/	Pass
		2595	75	0	13.519	/	Pass
		2612.5	75	0	13.552	/	Pass
	16QAM	2577.5	75	0	13.574	/	Pass
		2595	75	0	13.568	/	Pass
		2612.5	75	0	13.556	/	Pass
20	QPSK	2580	100	0	18.066	/	Pass
		2595	100	0	18.058	/	Pass
		2610	100	0	18.022	/	Pass
	16QAM	2580	100	0	18.039	/	Pass
		2595	100	0	18.014	/	Pass
		2610	100	0	18.054	/	Pass

4.1.2 Band38_XDB

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.830	/	Pass
		2595	25	0	6.065	/	Pass
		2617.5	25	0	6.446	/	Pass
	16QAM	2572.5	25	0	6.055	/	Pass
		2595	25	0	5.279	/	Pass
		2617.5	25	0	5.303	/	Pass
10	QPSK	2575	50	0	10.139	/	Pass
		2595	50	0	10.504	/	Pass
		2615	50	0	10.232	/	Pass
	16QAM	2575	50	0	11.255	/	Pass
		2595	50	0	12.073	/	Pass
		2615	50	0	11.008	/	Pass
15	QPSK	2577.5	75	0	15.809	/	Pass
		2595	75	0	15.831	/	Pass

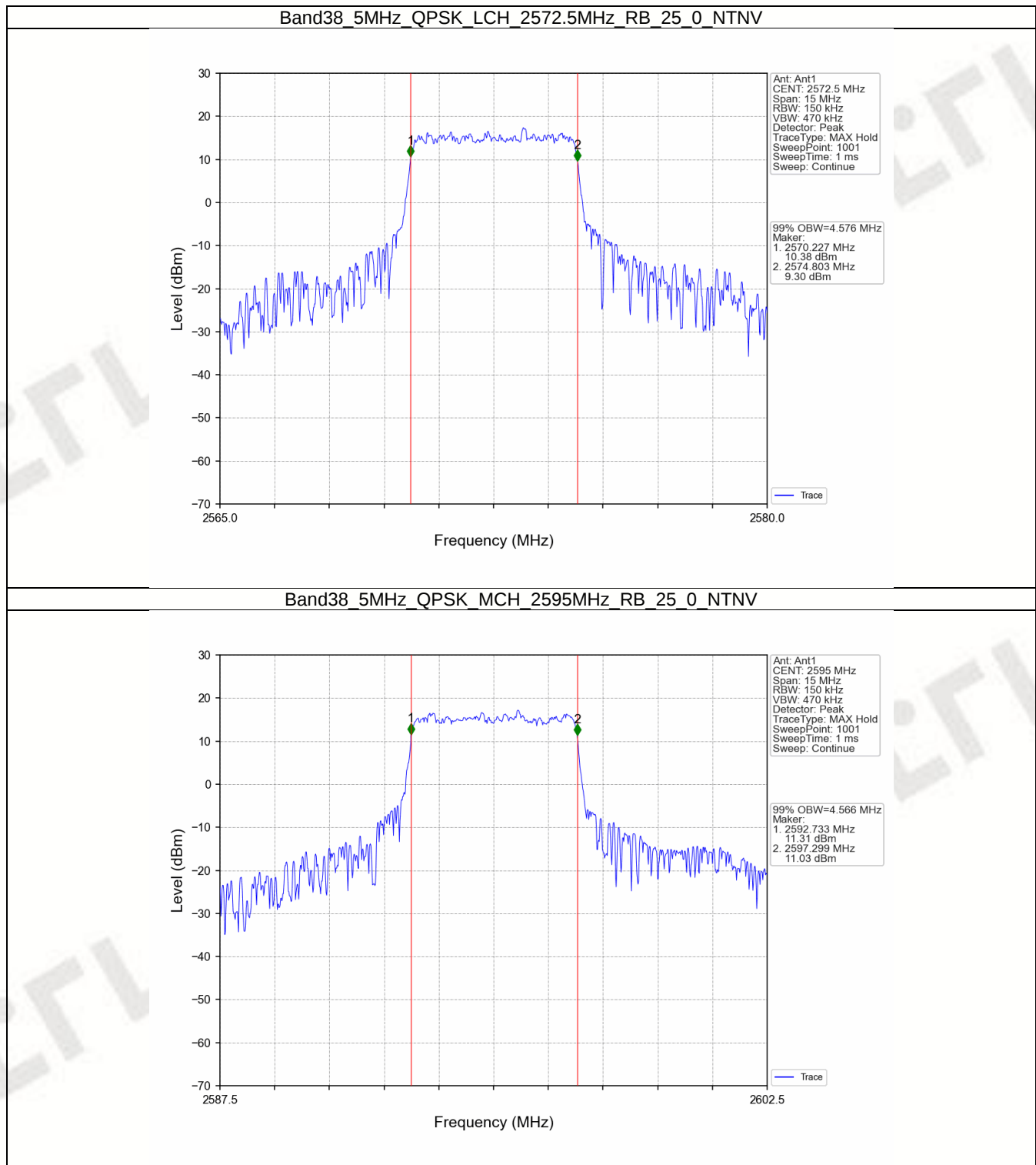
FCCID: 2BCUE-P8GLOBAL

	16QAM	2612.5	75	0	15.545	/	Pass
		2577.5	75	0	15.146	/	Pass
		2595	75	0	15.858	/	Pass
		2612.5	75	0	15.281	/	Pass
20	QPSK	2580	100	0	21.462	/	Pass
		2595	100	0	19.746	/	Pass
		2610	100	0	20.170	/	Pass
	16QAM	2580	100	0	20.625	/	Pass
		2595	100	0	19.792	/	Pass
		2610	100	0	20.559	/	Pass

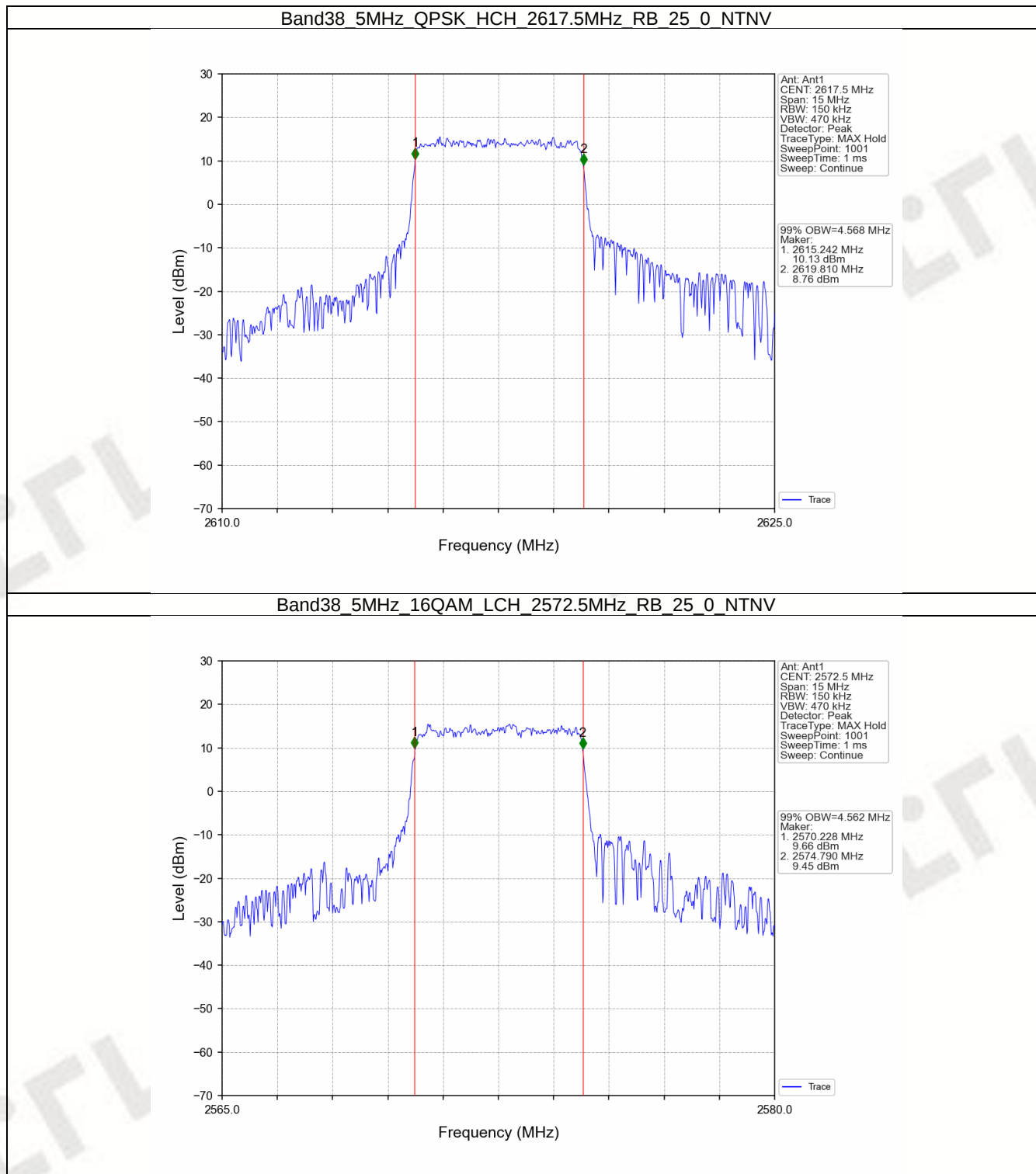
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4.2 Test Graph

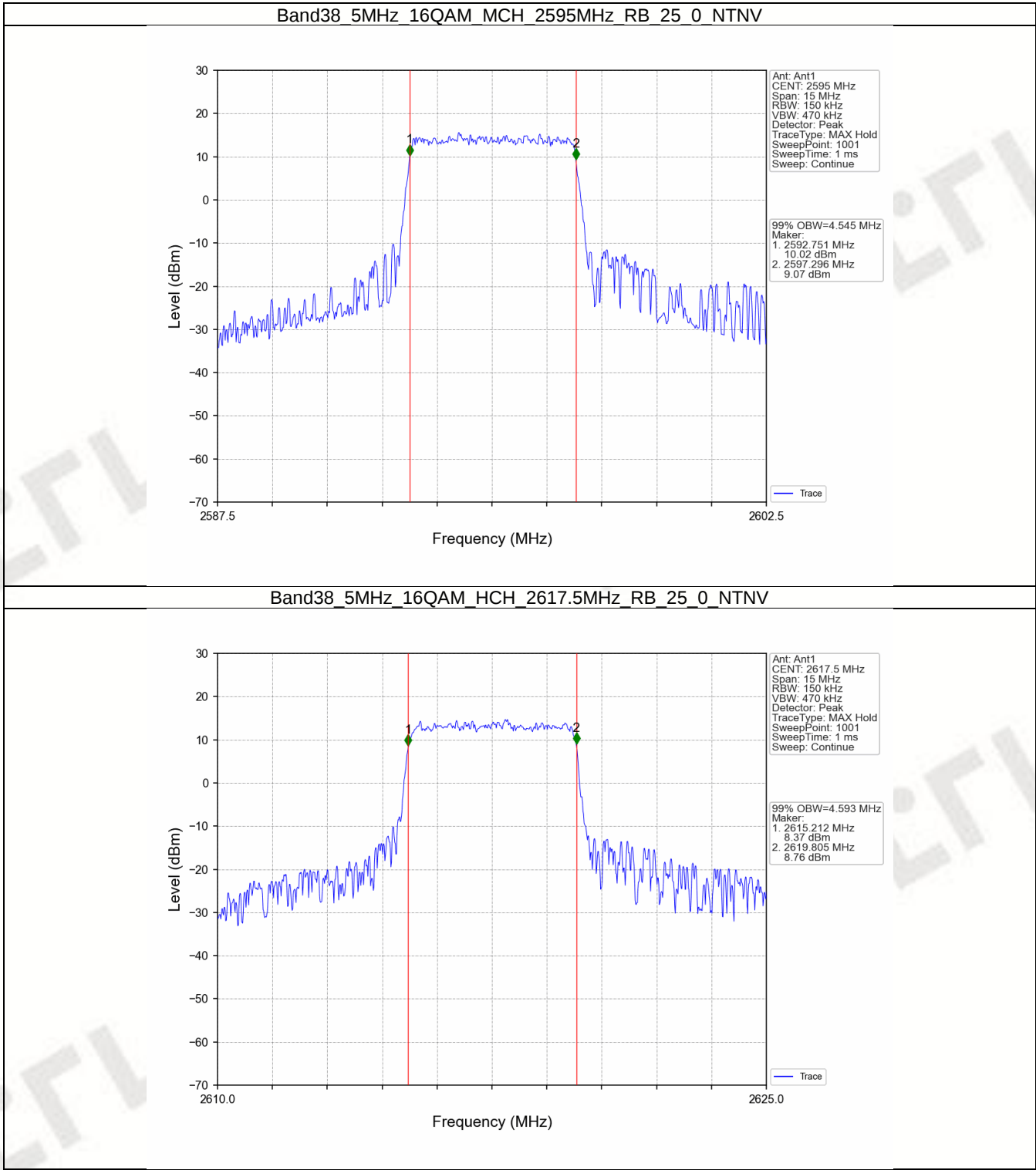
4.2.1 Band38_OBW



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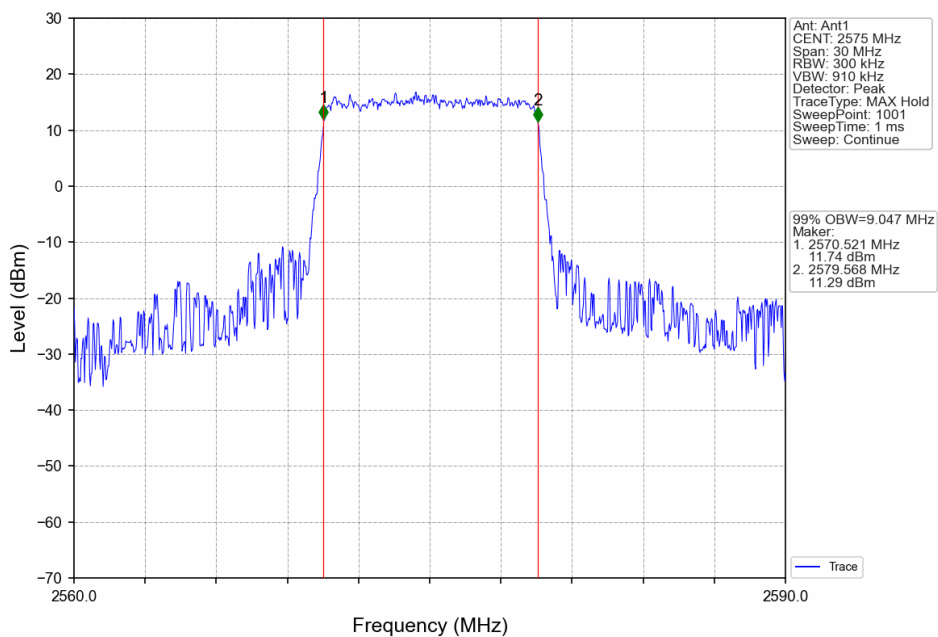


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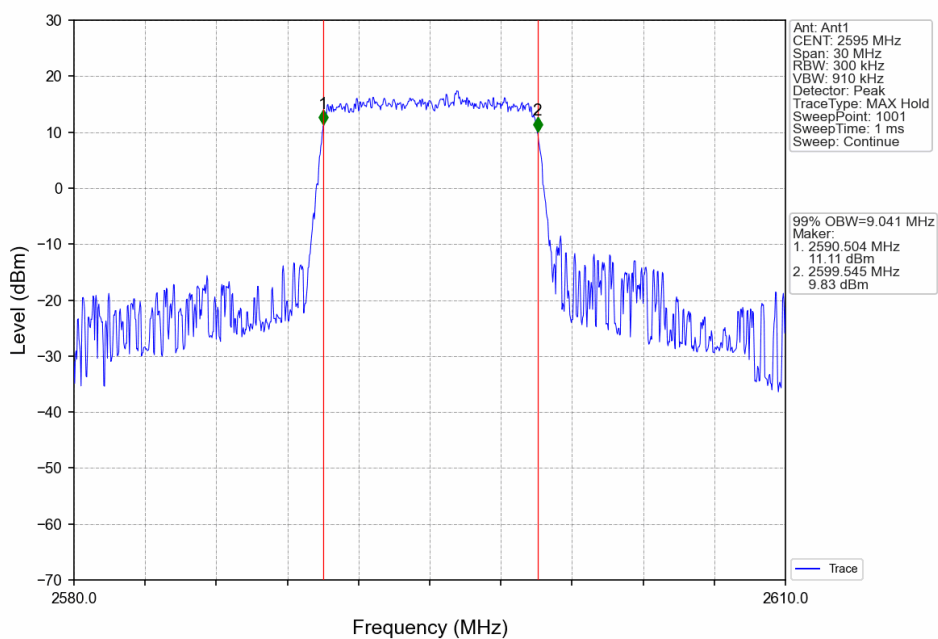


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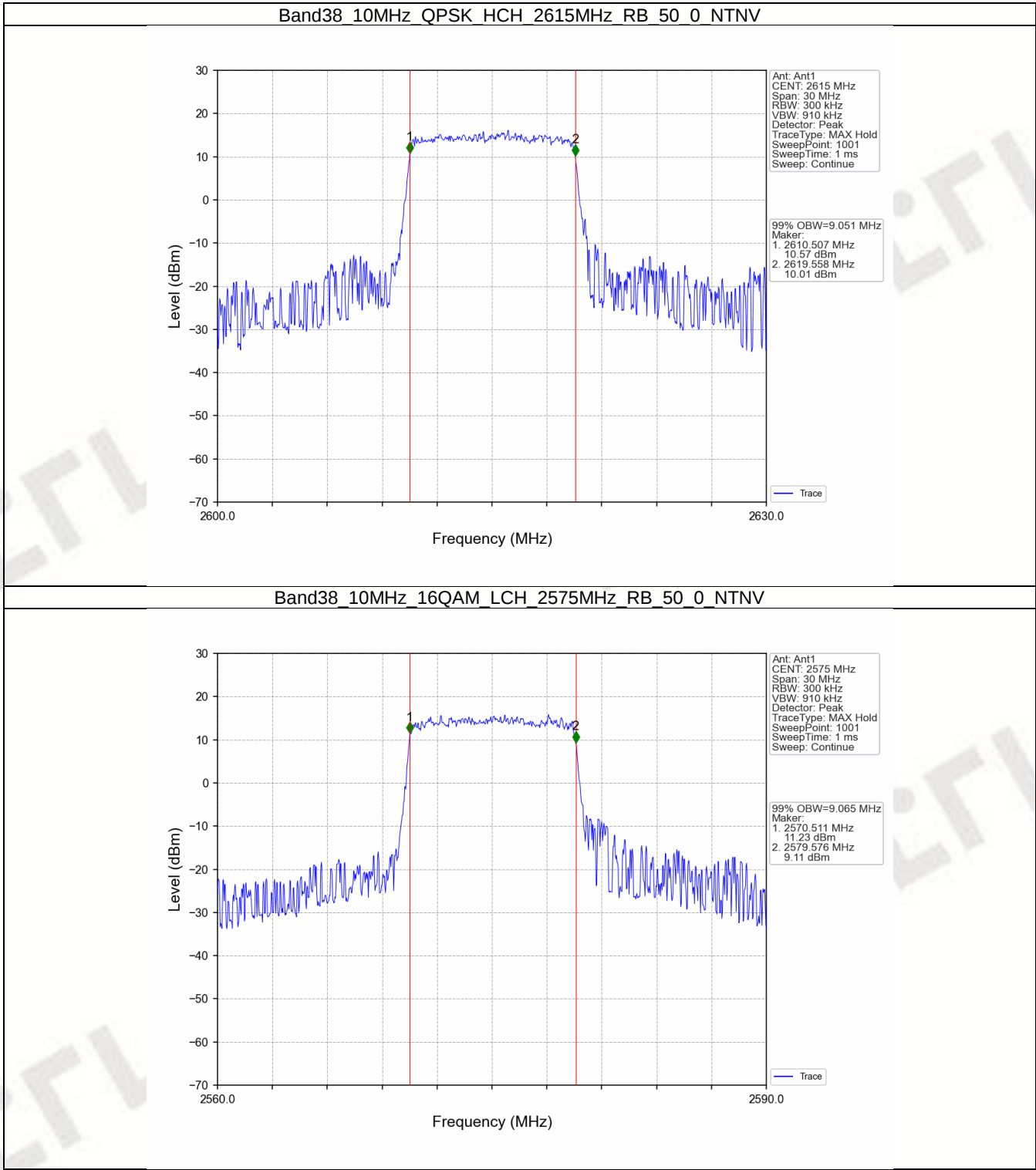
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



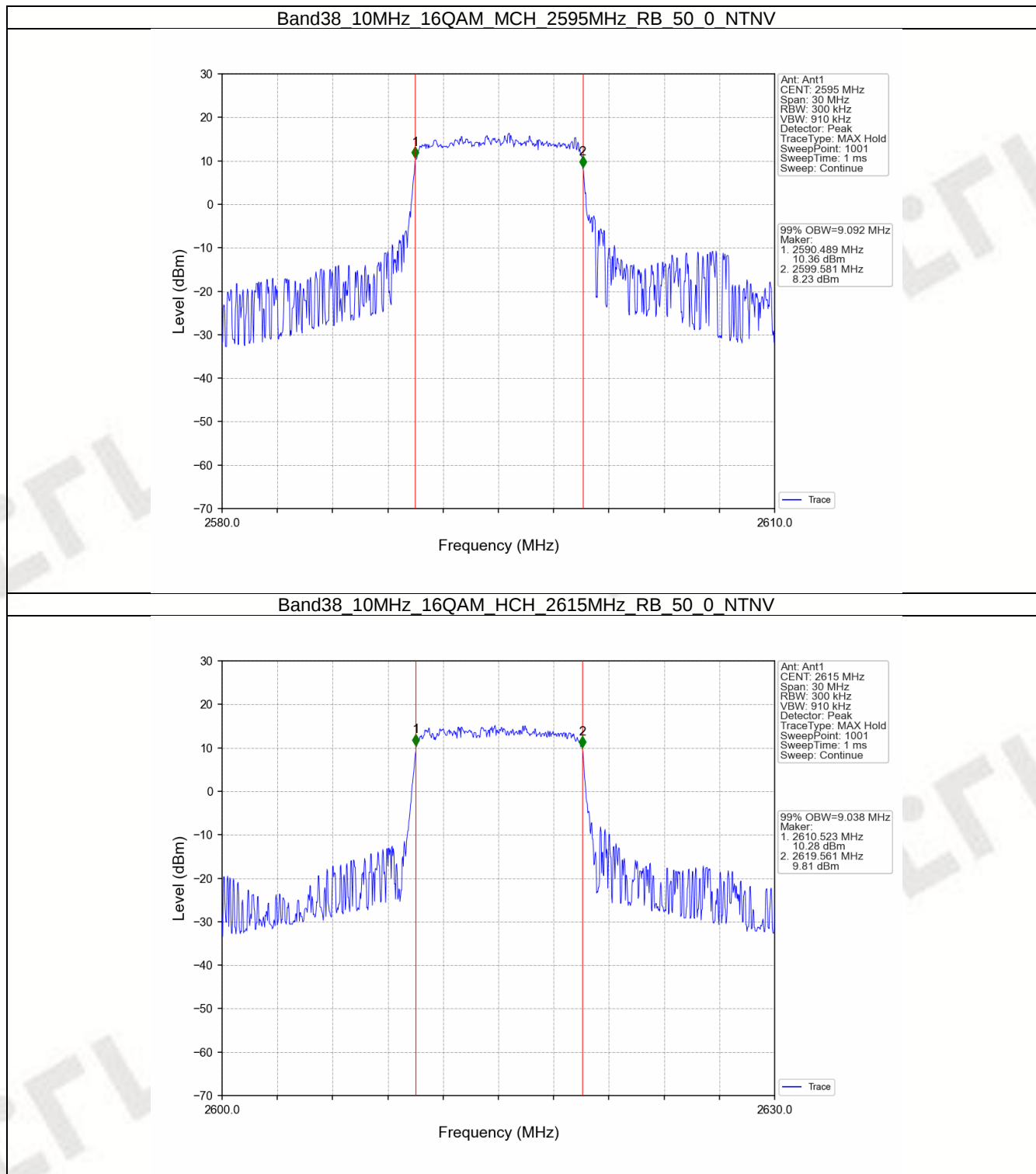
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



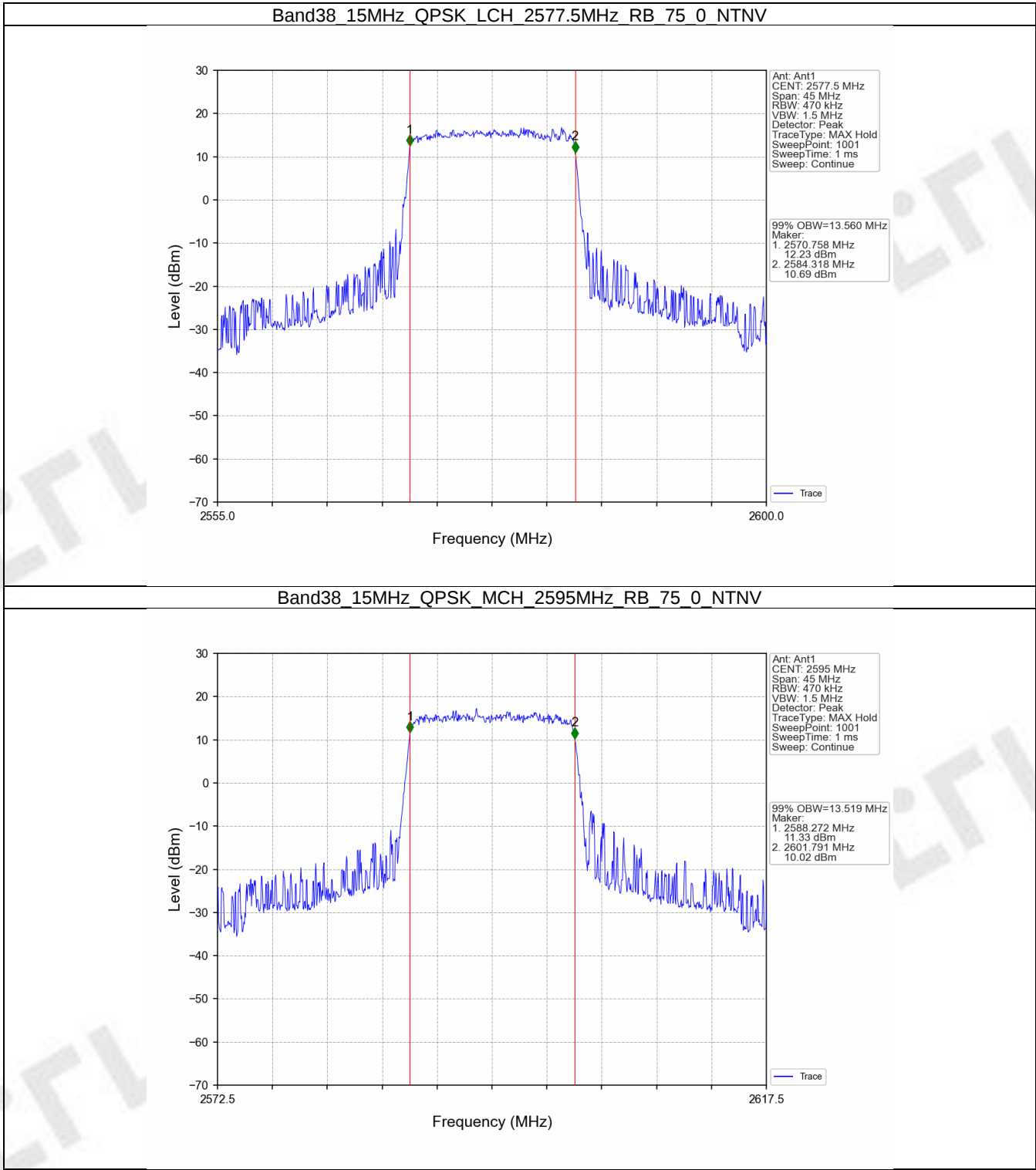
FCCID: 2BCUE-P8GLOBAL



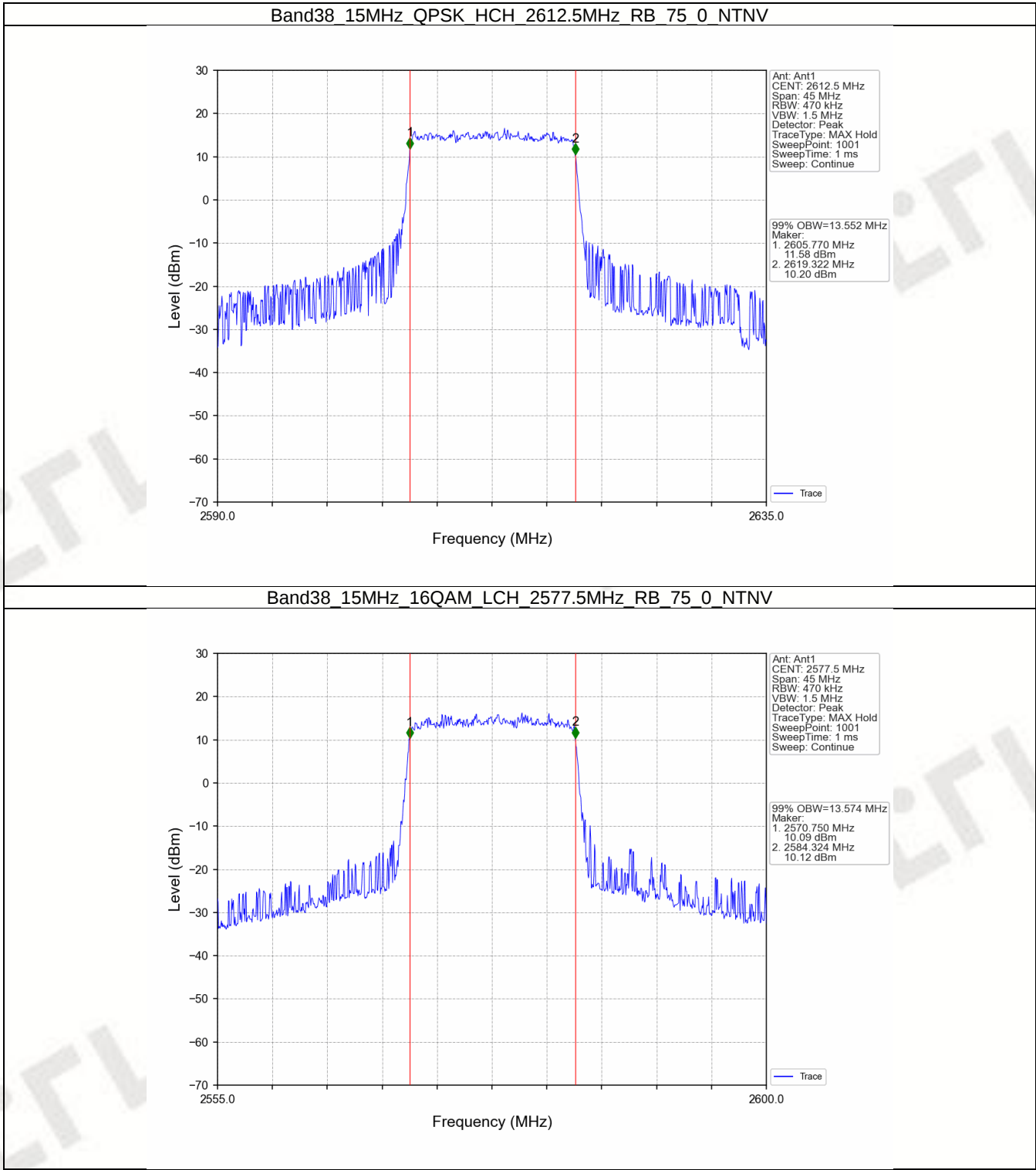
FCCID: 2BCUE-P8GLOBAL



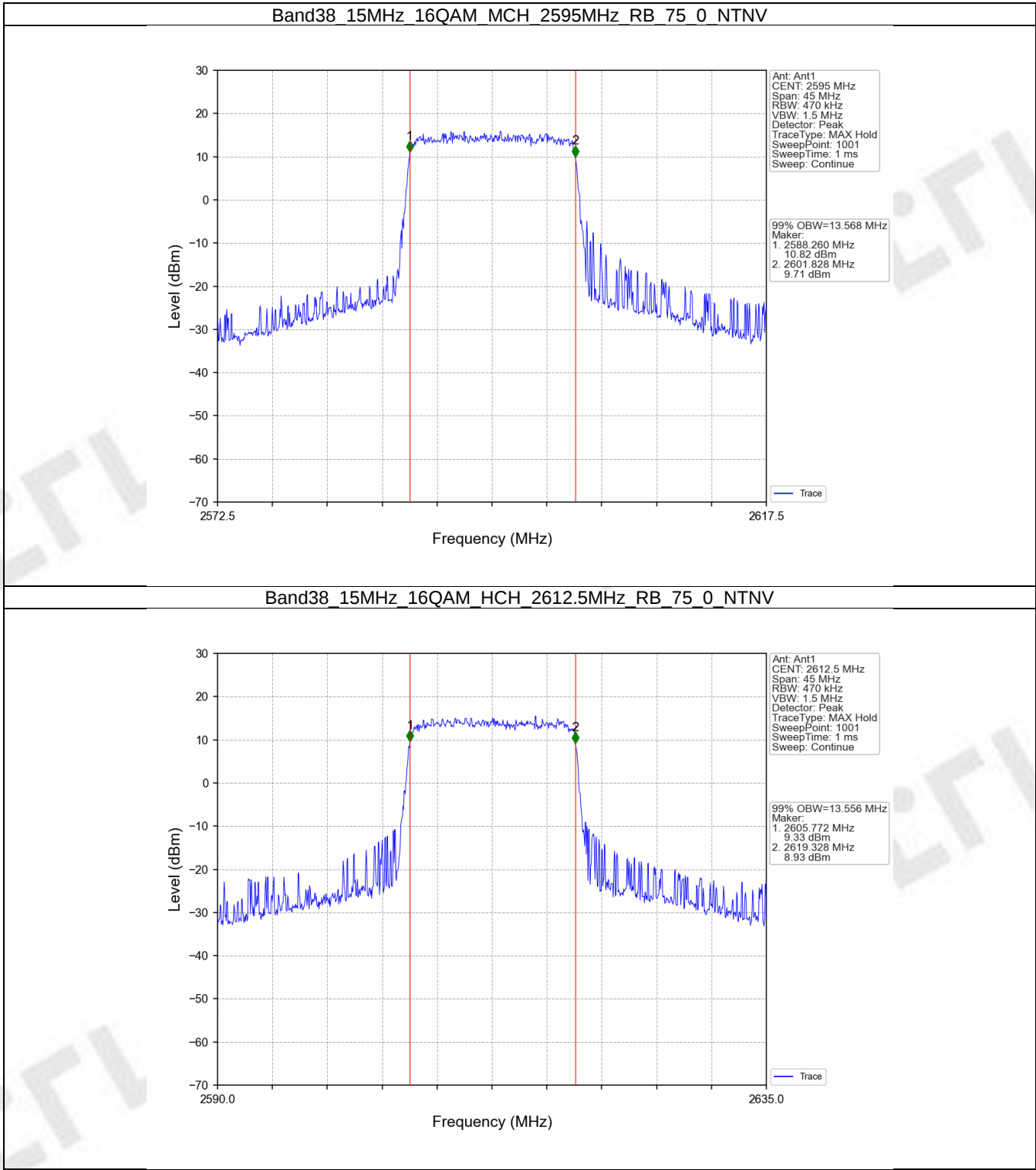
FCCID: 2BCUE-P8GLOBAL



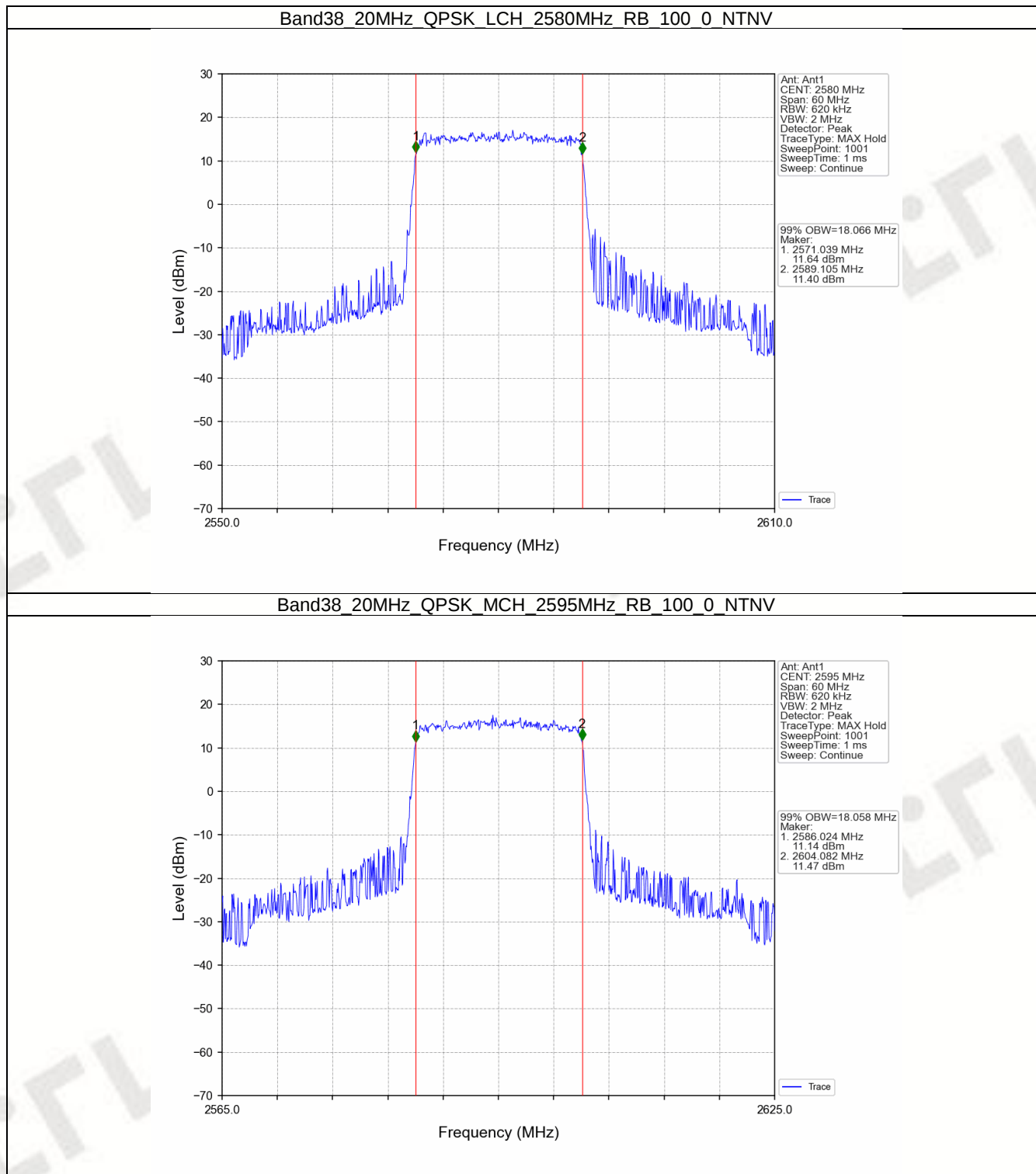
FCCID: 2BCUE-P8GLOBAL



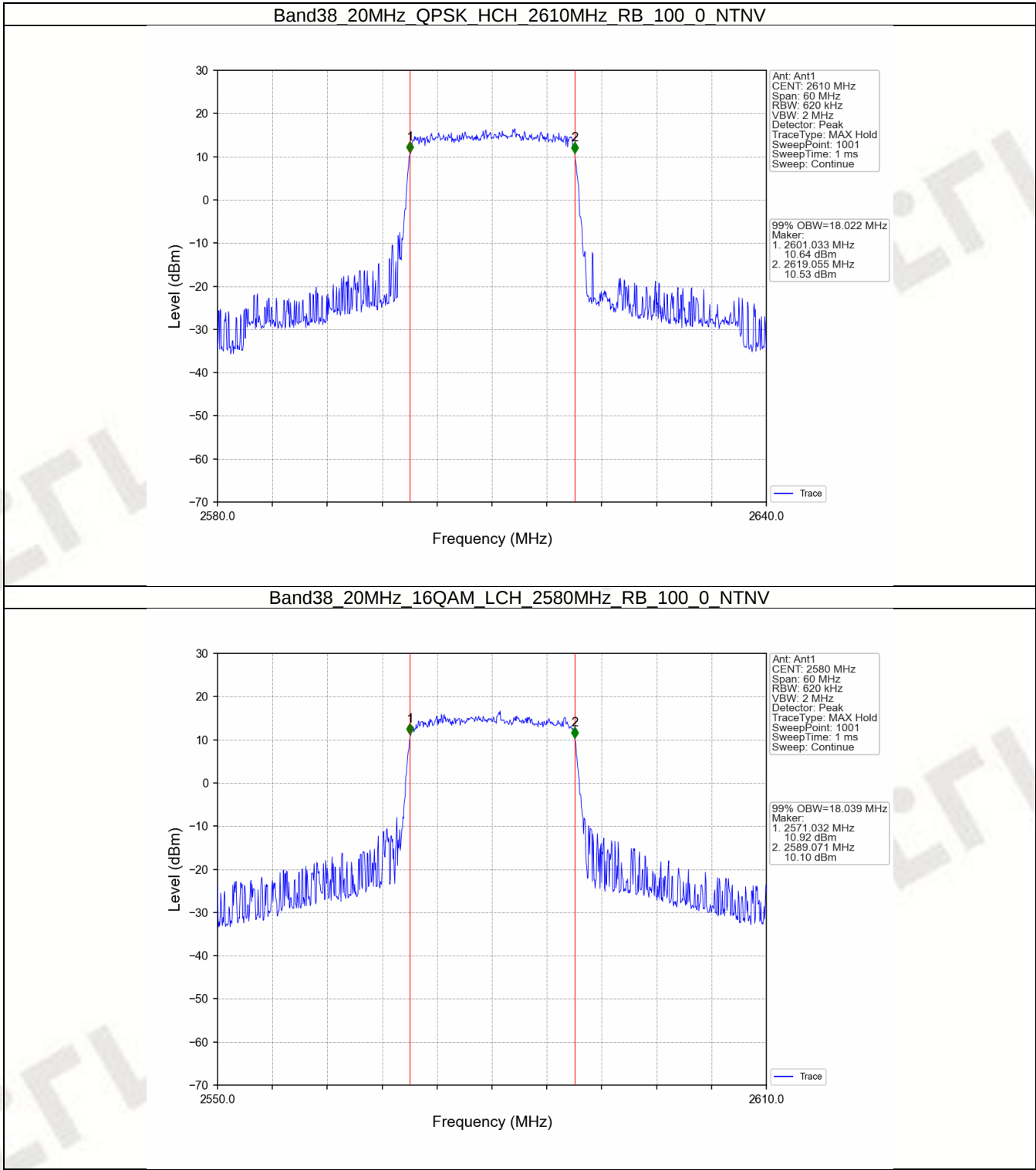
FCCID: 2BCUE-P8GLOBAL



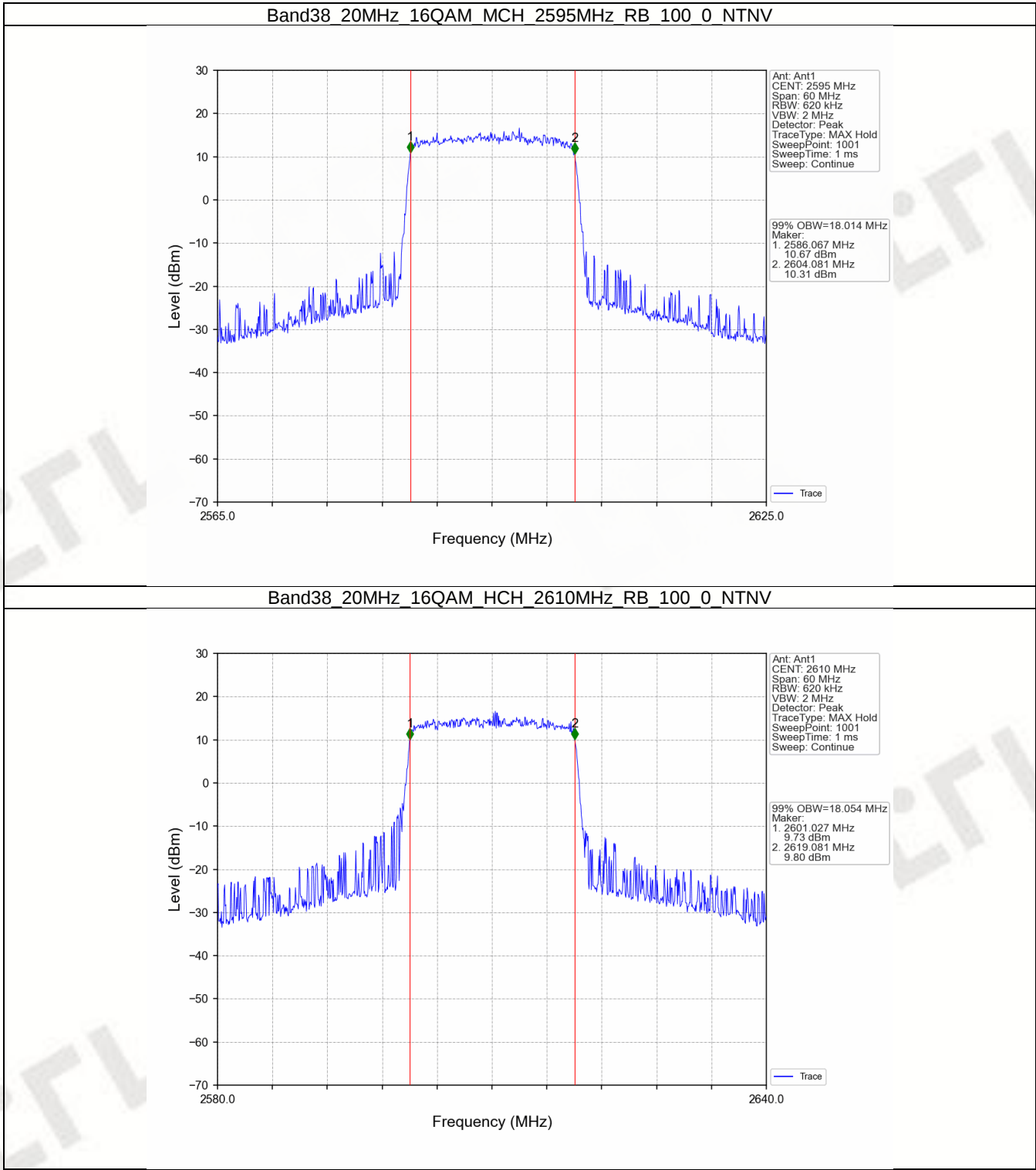
FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

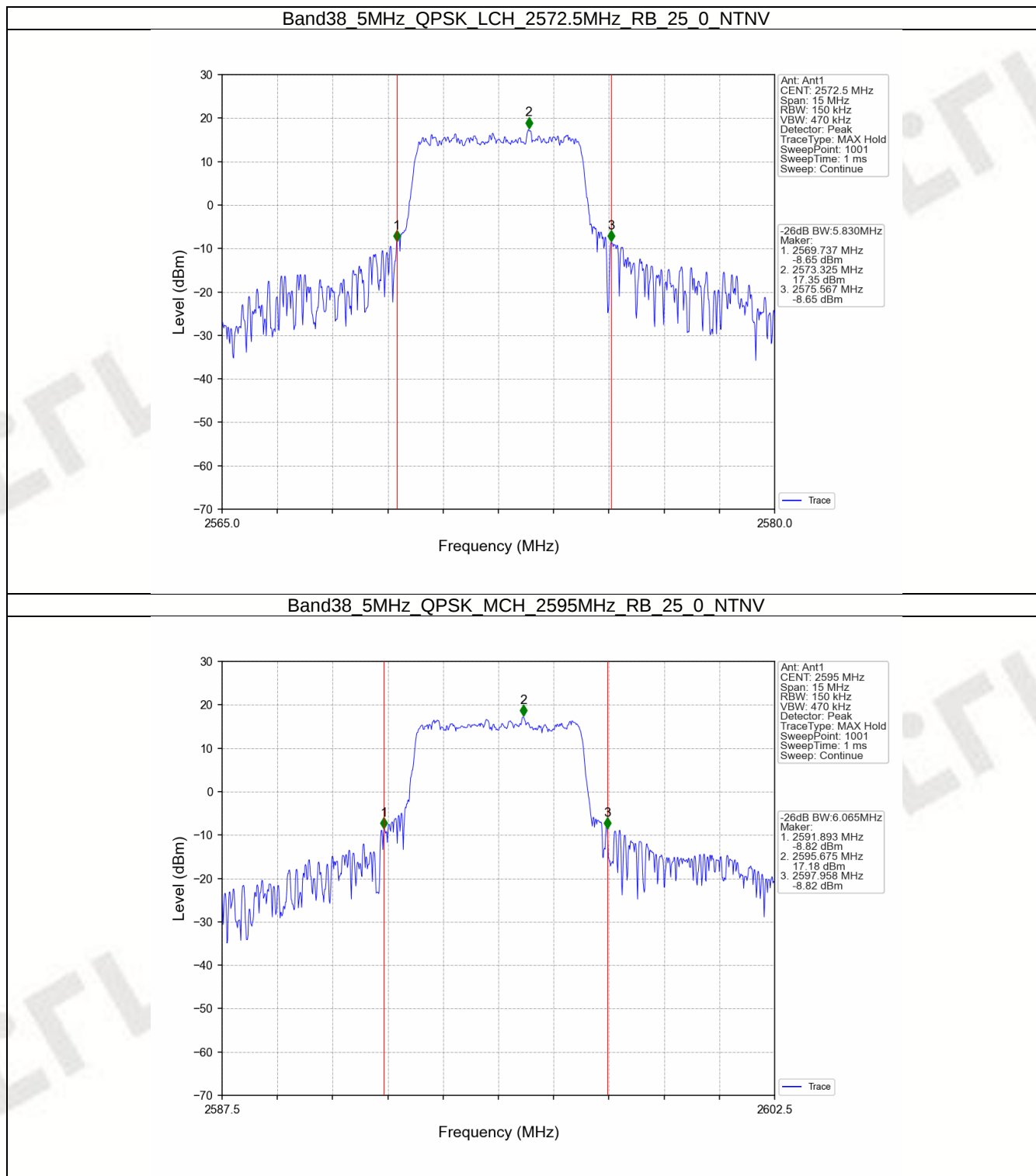


FCCID: 2BCUE-P8GLOBAL

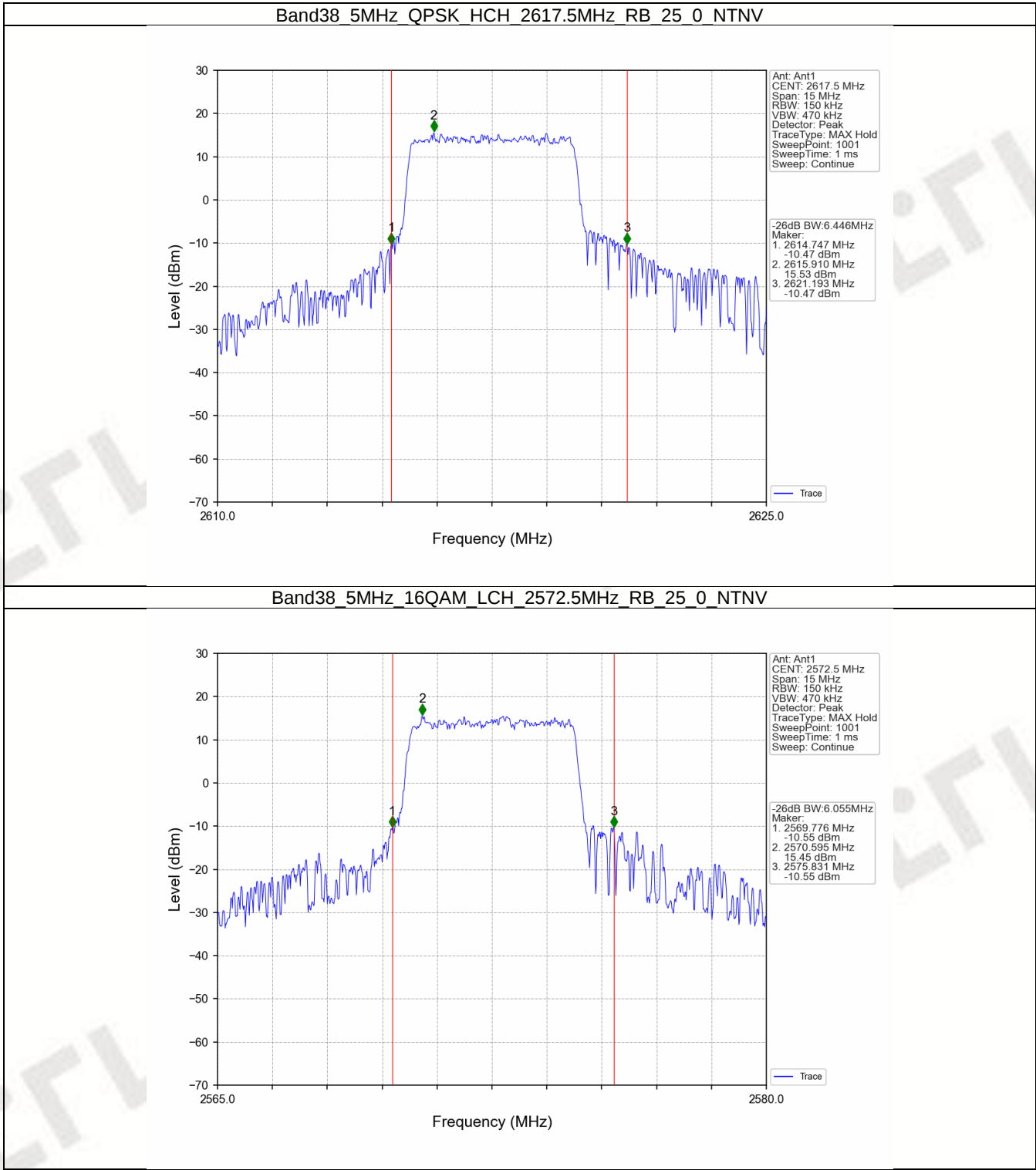


FCCID: 2BCUE-P8GLOBAL

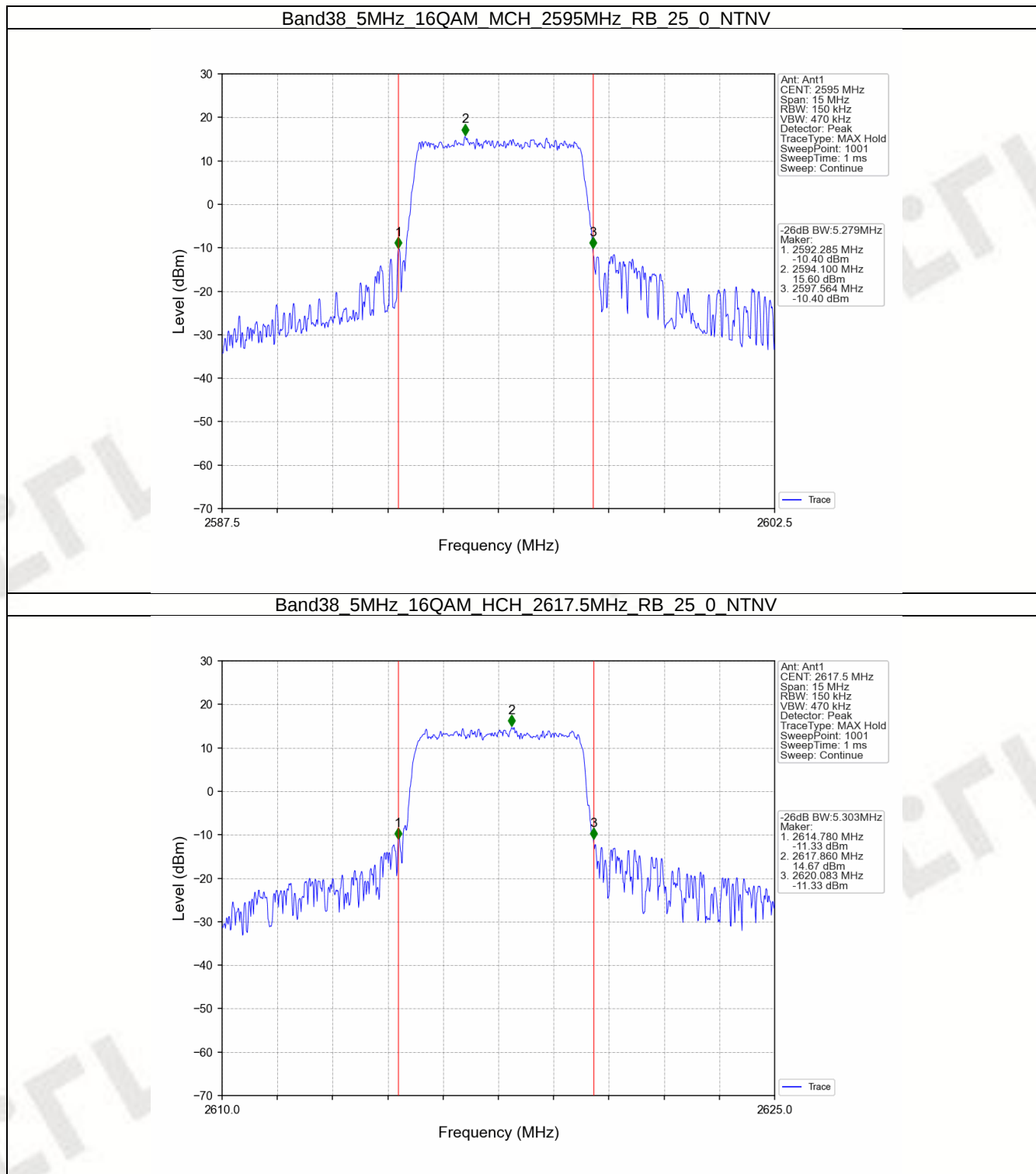
4.2.2 Band38_XDB



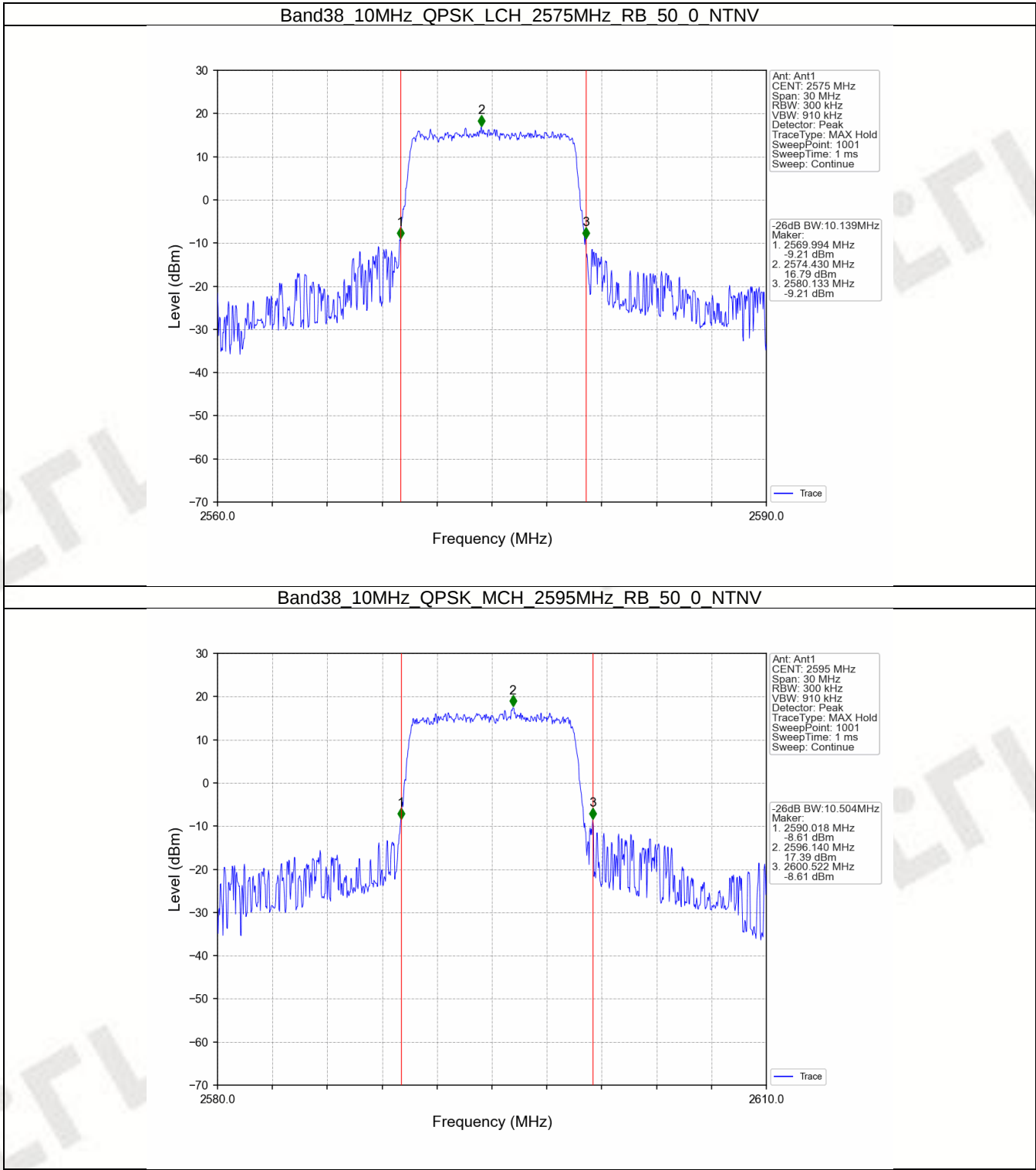
FCCID: 2BCUE-P8GLOBAL



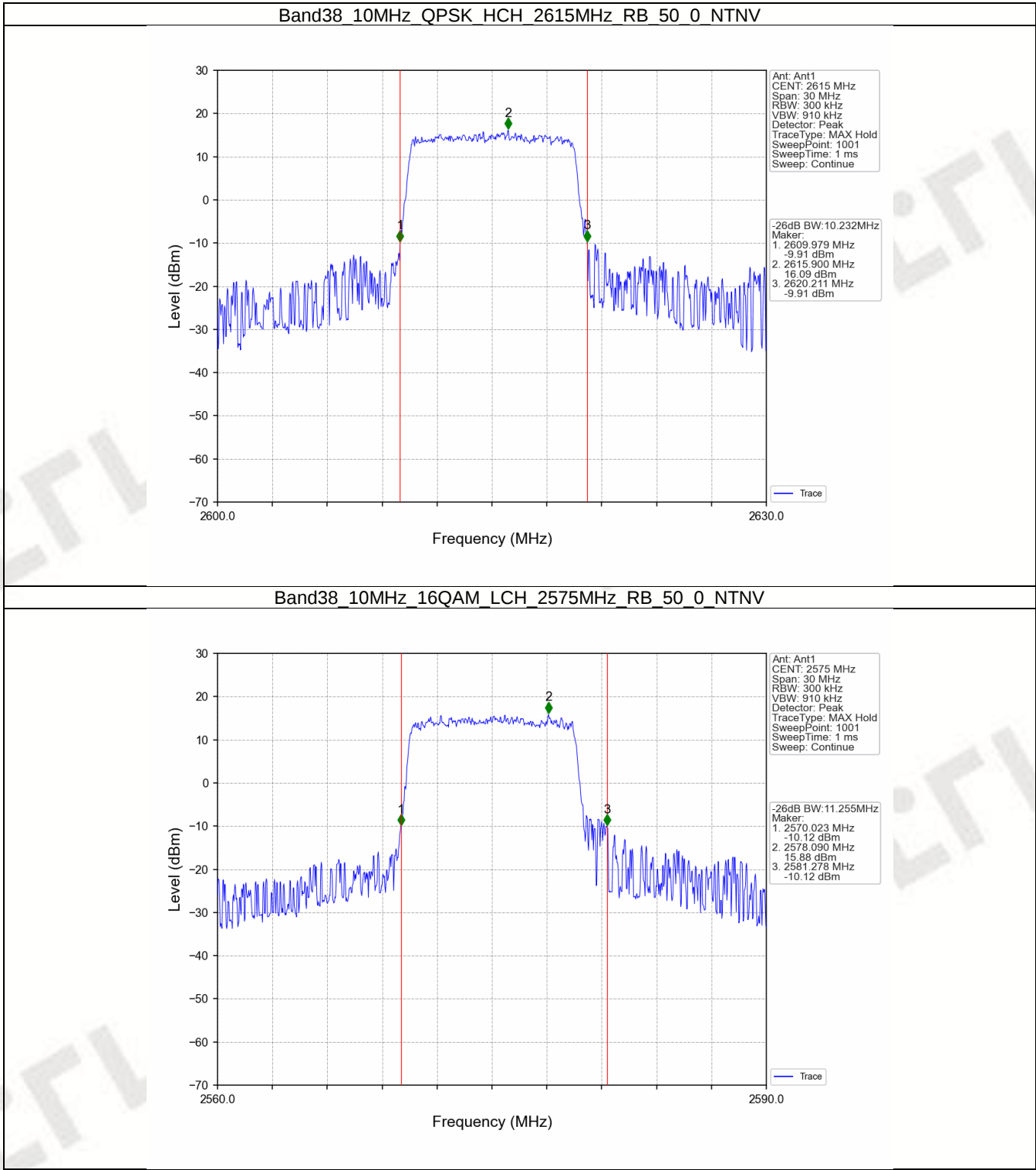
FCCID: 2BCUE-P8GLOBAL



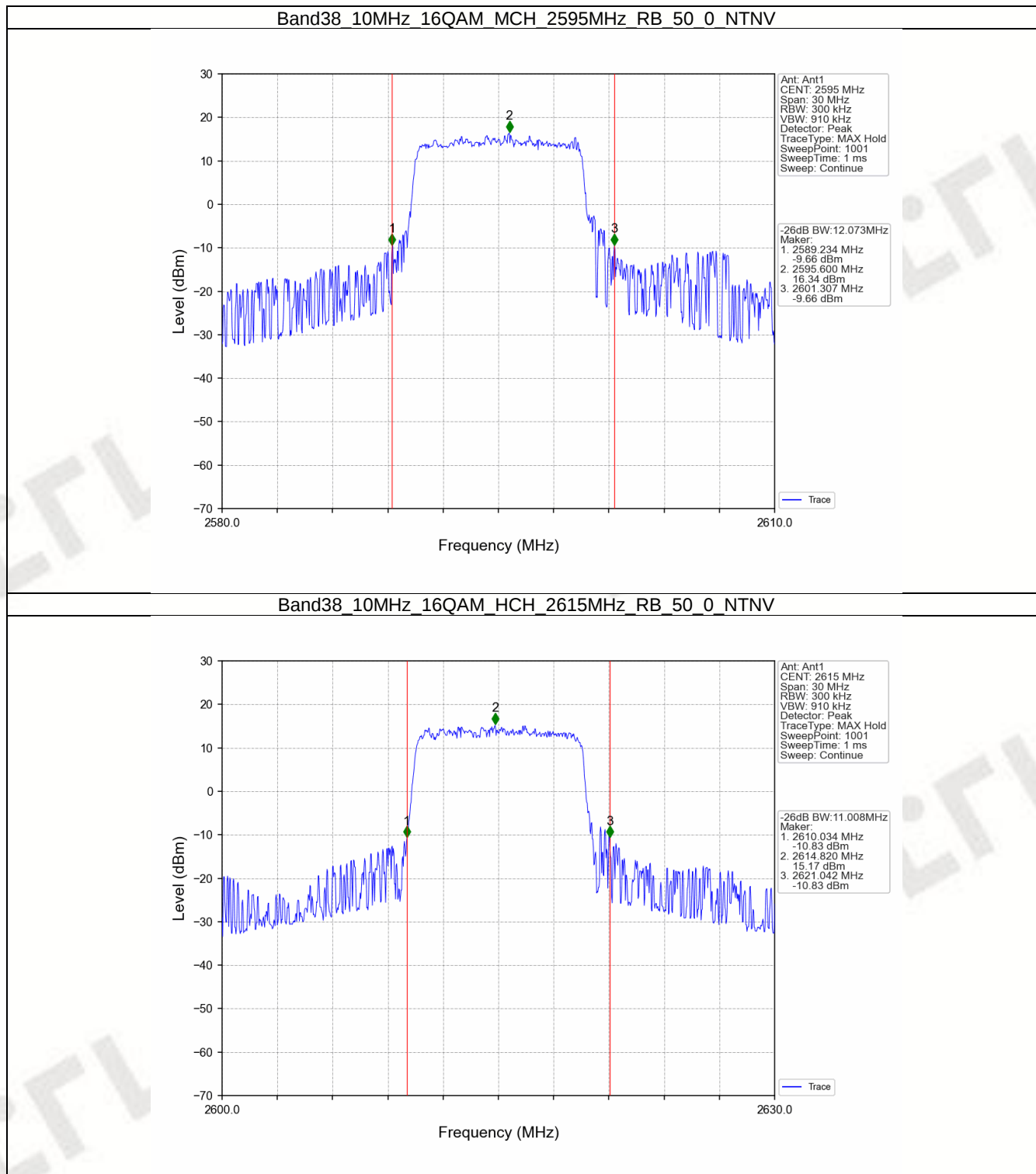
FCCID: 2BCUE-P8GLOBAL



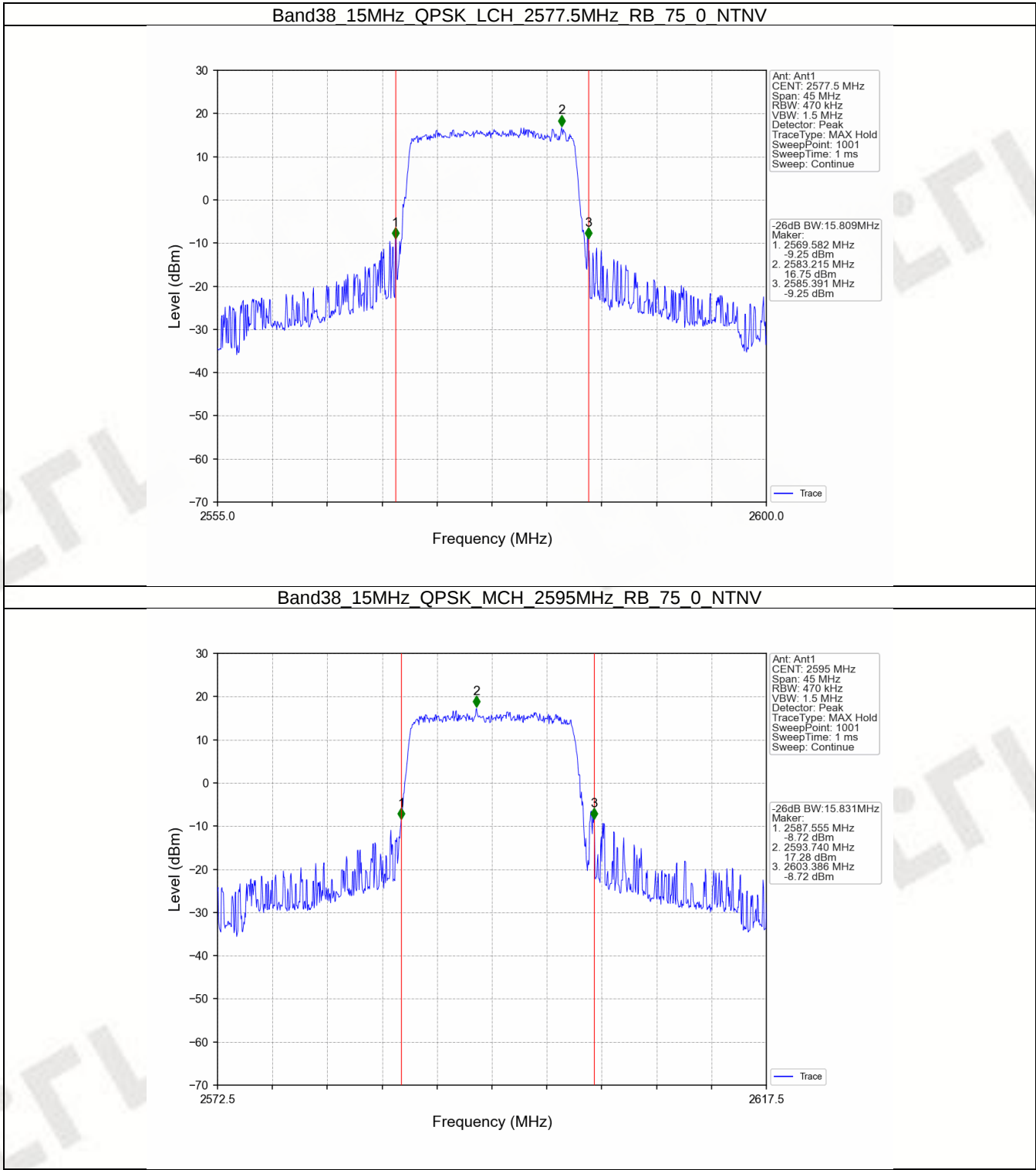
FCCID: 2BCUE-P8GLOBAL



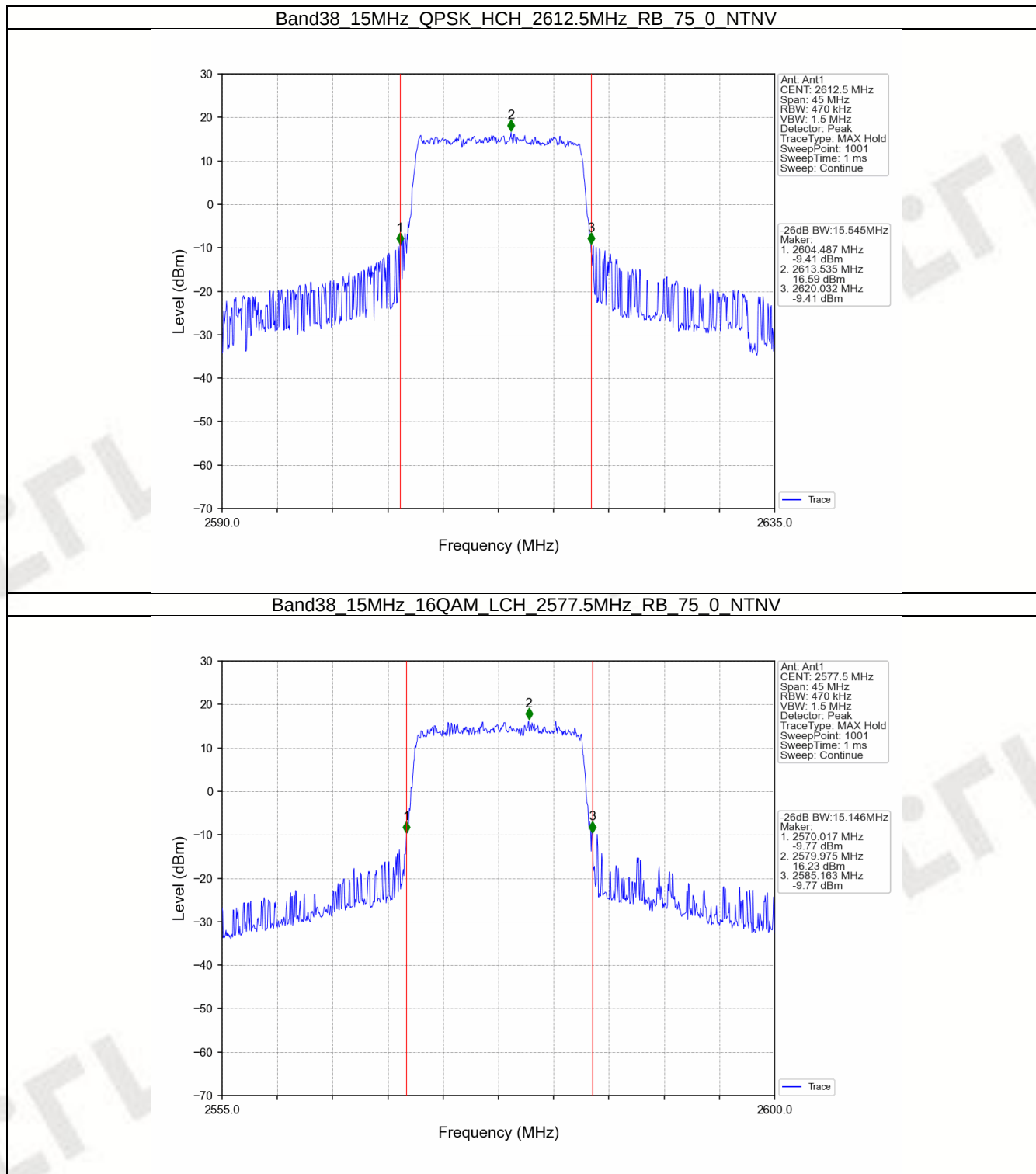
FCCID: 2BCUE-P8GLOBAL



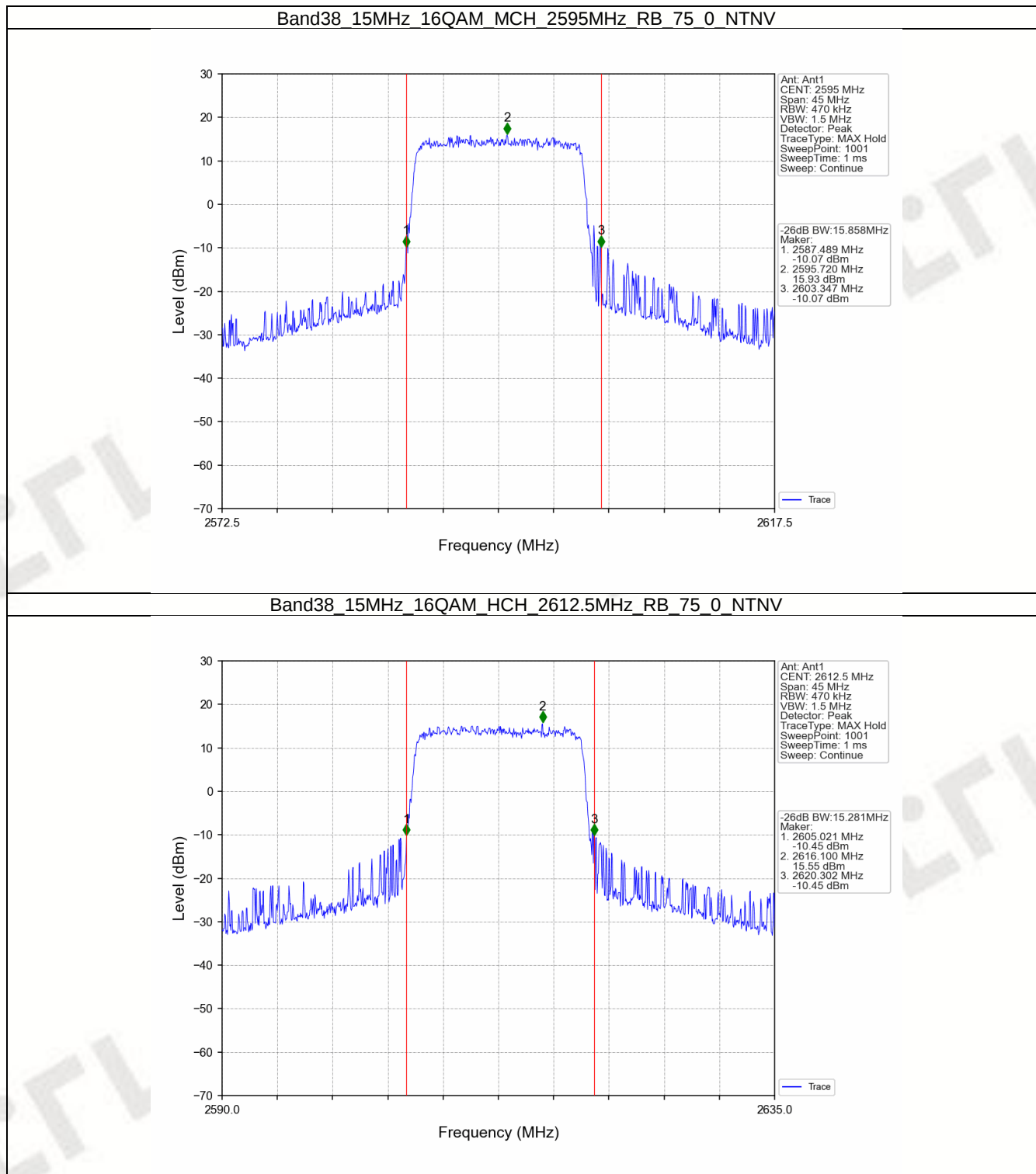
FCCID: 2BCUE-P8GLOBAL



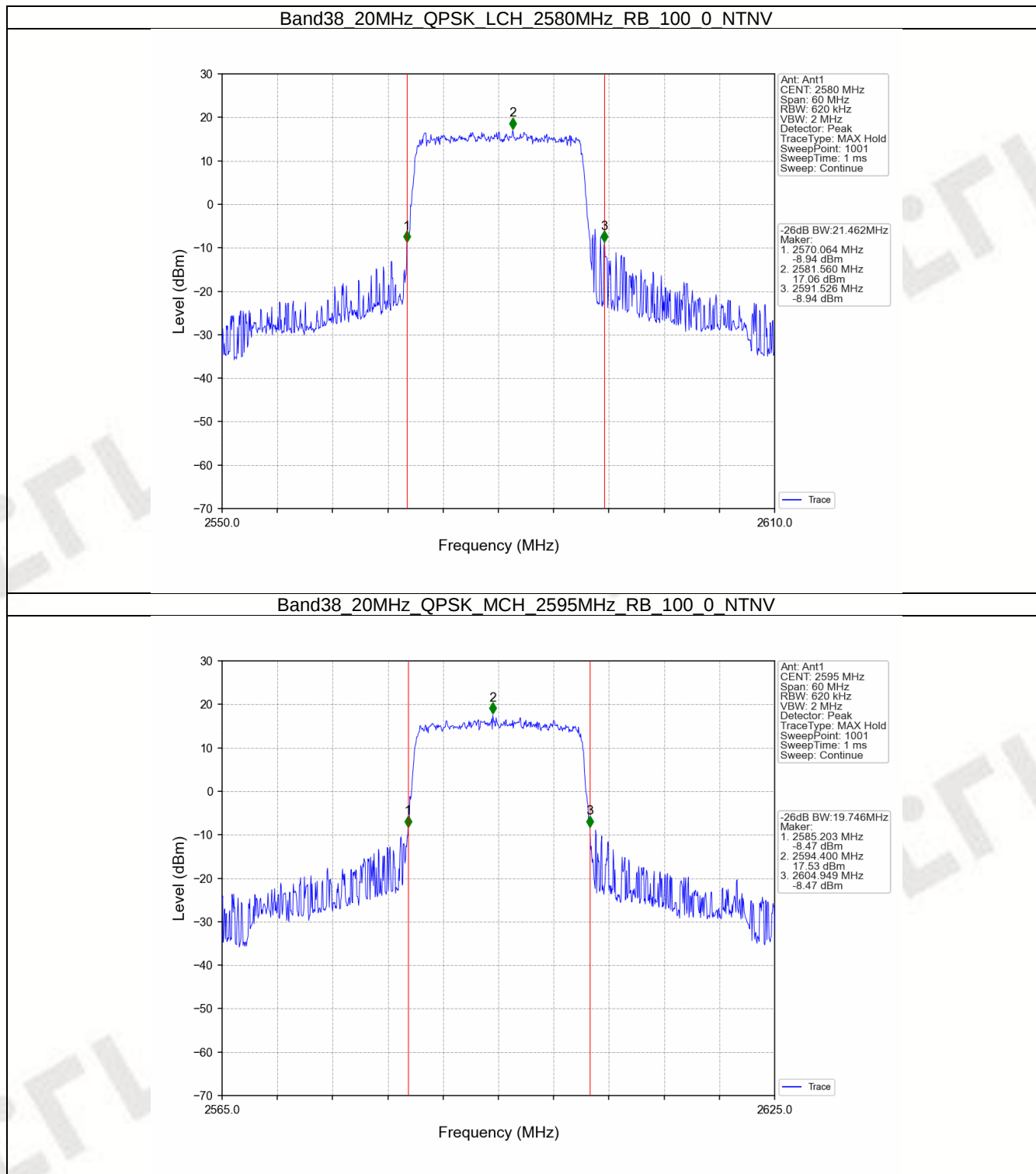
FCCID: 2BCUE-P8GLOBAL



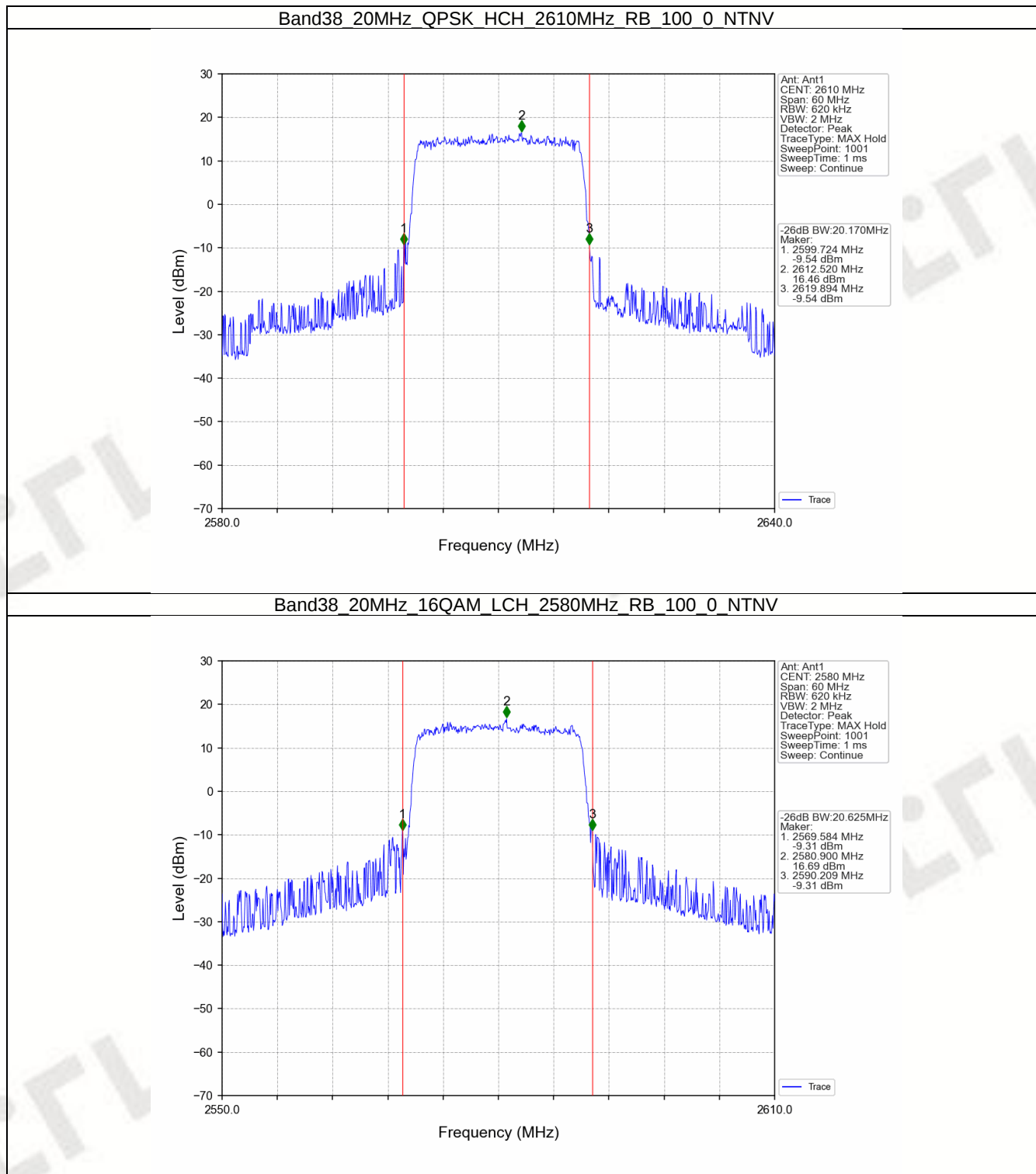
FCCID: 2BCUE-P8GLOBAL



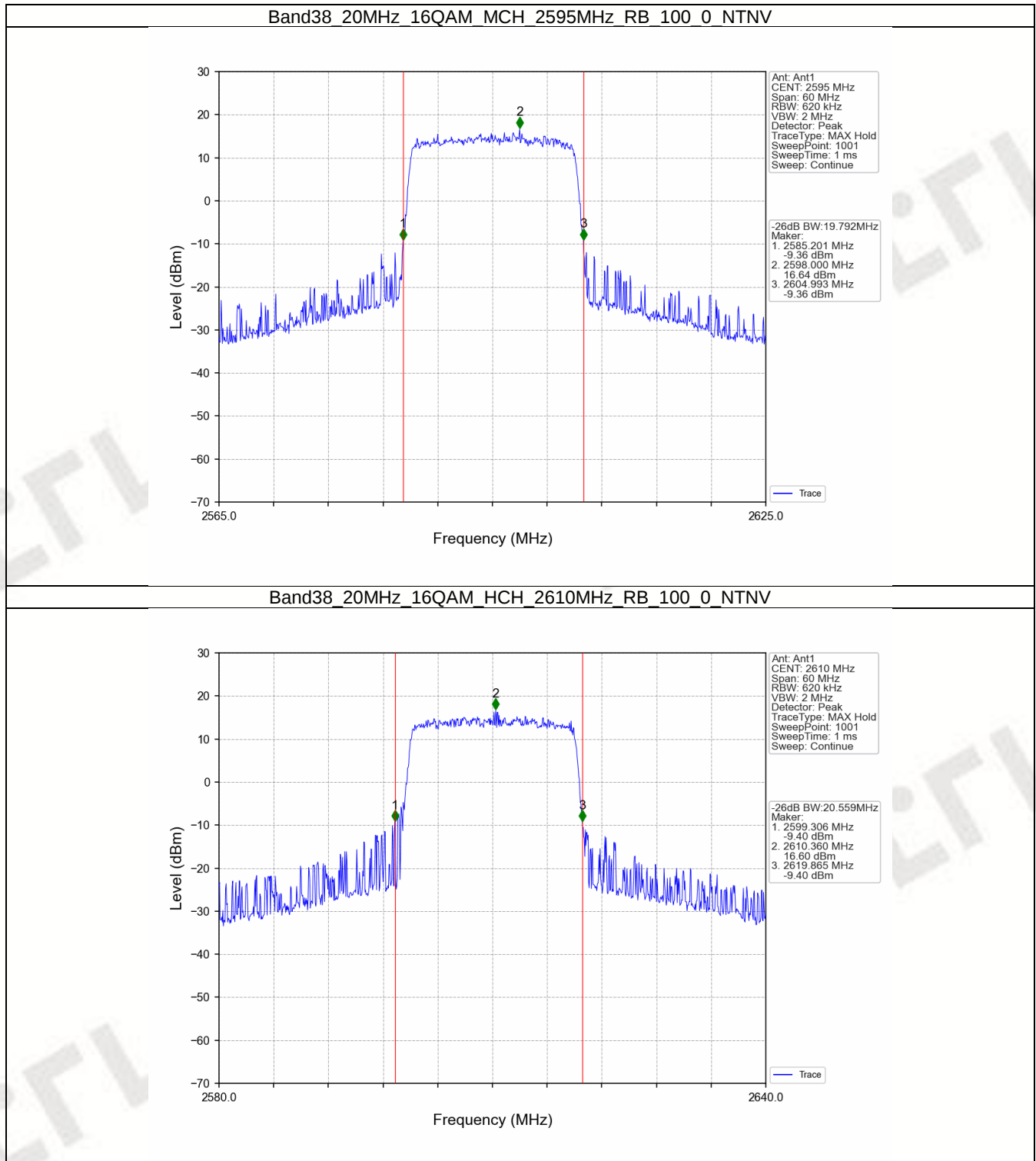
FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.71	<=13	Pass
	2595	25	0	7.34	<=13	Pass
	2617.5	25	0	7.41	<=13	Pass
16QAM	2572.5	25	0	8.21	<=13	Pass
	2595	25	0	8.16	<=13	Pass
	2617.5	25	0	8.21	<=13	Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.31	<=13	Pass
	2595	50	0	7.29	<=13	Pass
	2615	50	0	7.32	<=13	Pass
16QAM	2575	50	0	8.24	<=13	Pass
	2595	50	0	8.16	<=13	Pass
	2615	50	0	8.13	<=13	Pass

5.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.57	<=13	Pass
	2595	75	0	7.55	<=13	Pass
	2612.5	75	0	7.52	<=13	Pass
16QAM	2577.5	75	0	8.12	<=13	Pass
	2595	75	0	8.24	<=13	Pass
	2612.5	75	0	8.20	<=13	Pass

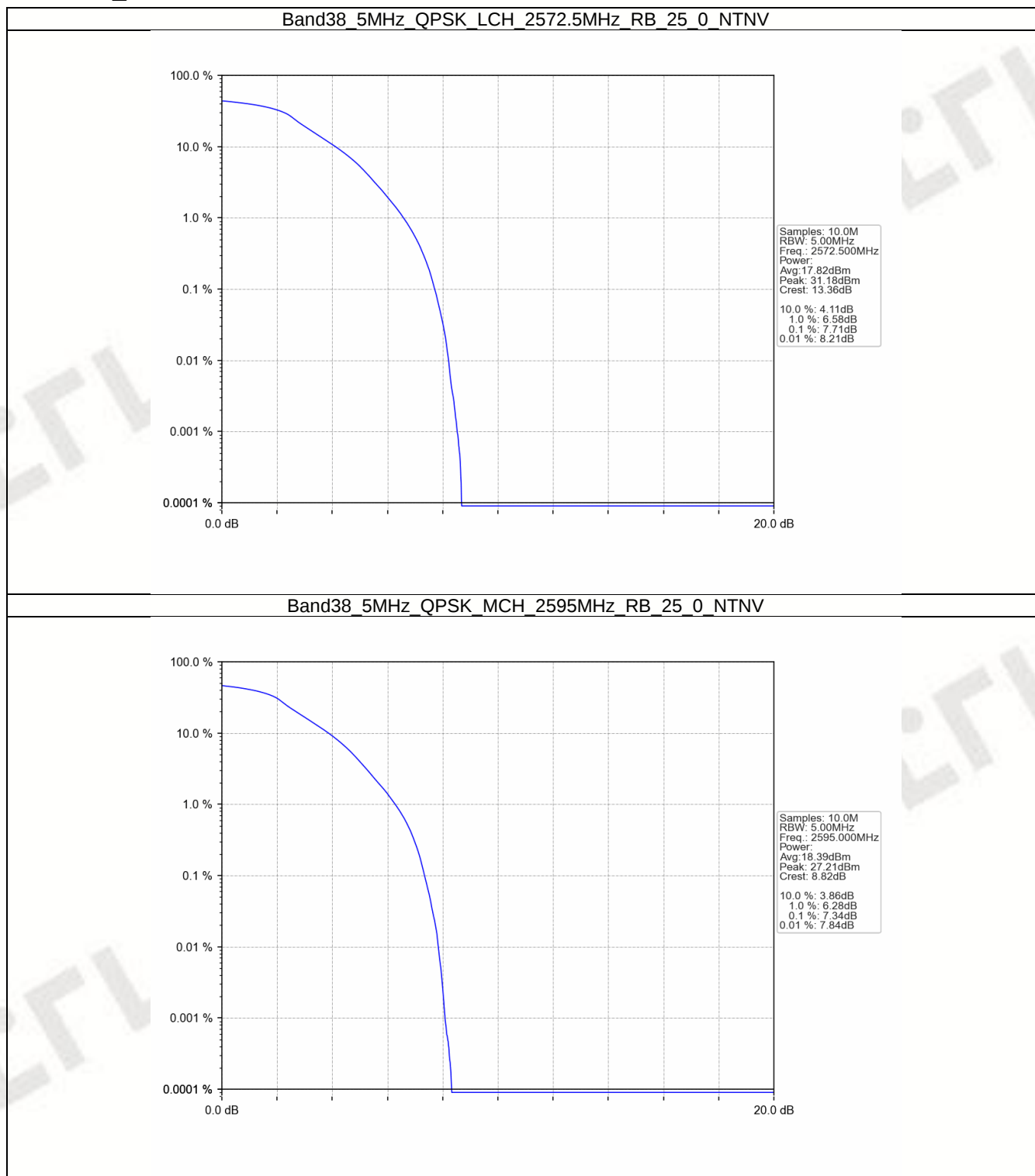
5.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.30	<=13	Pass
	2595	100	0	7.38	<=13	Pass
	2610	100	0	7.35	<=13	Pass
16QAM	2580	100	0	7.95	<=13	Pass
	2595	100	0	8.03	<=13	Pass
	2610	100	0	7.96	<=13	Pass

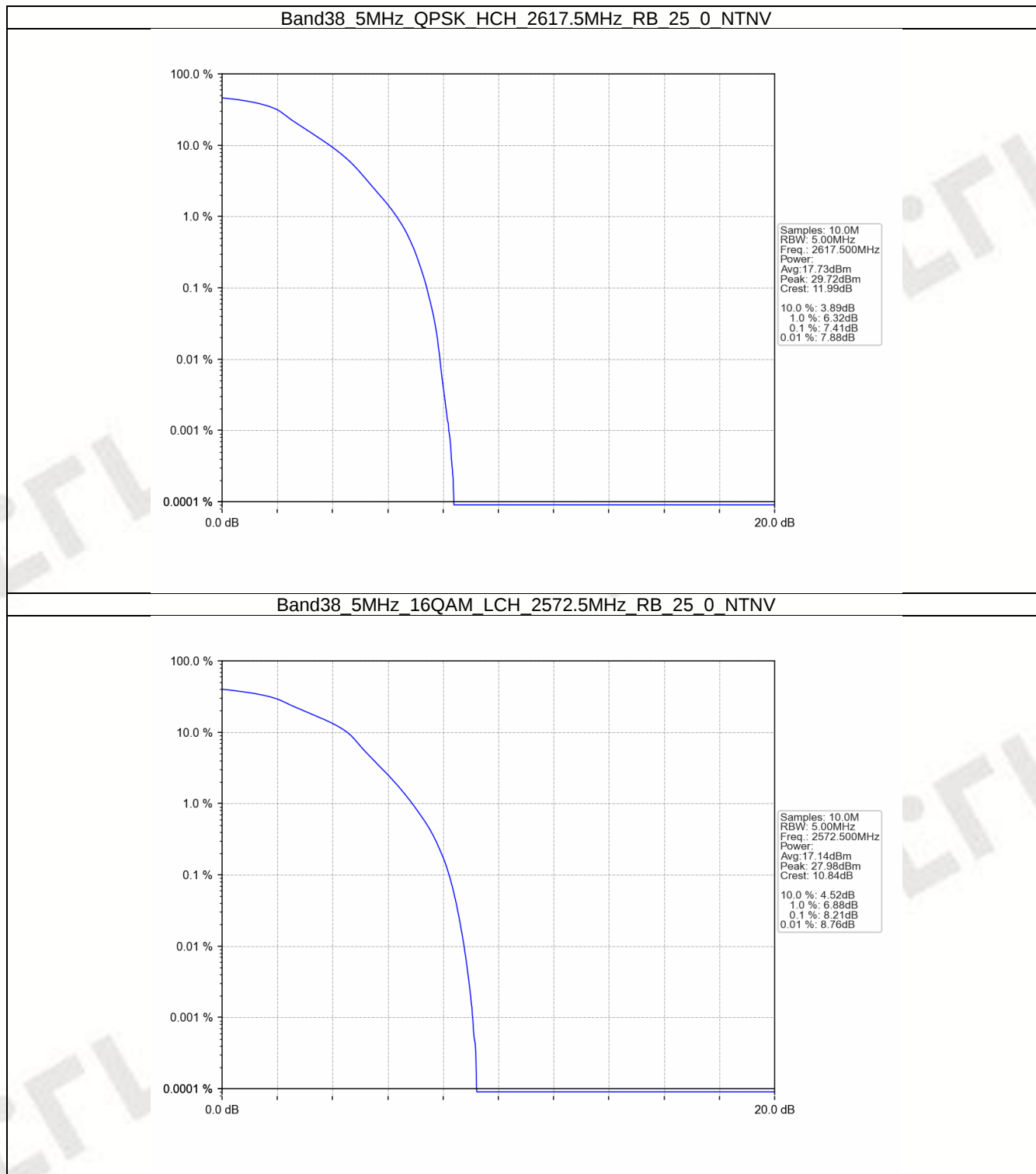
FCCID: 2BCUE-P8GLOBAL

5.2 Test Graph

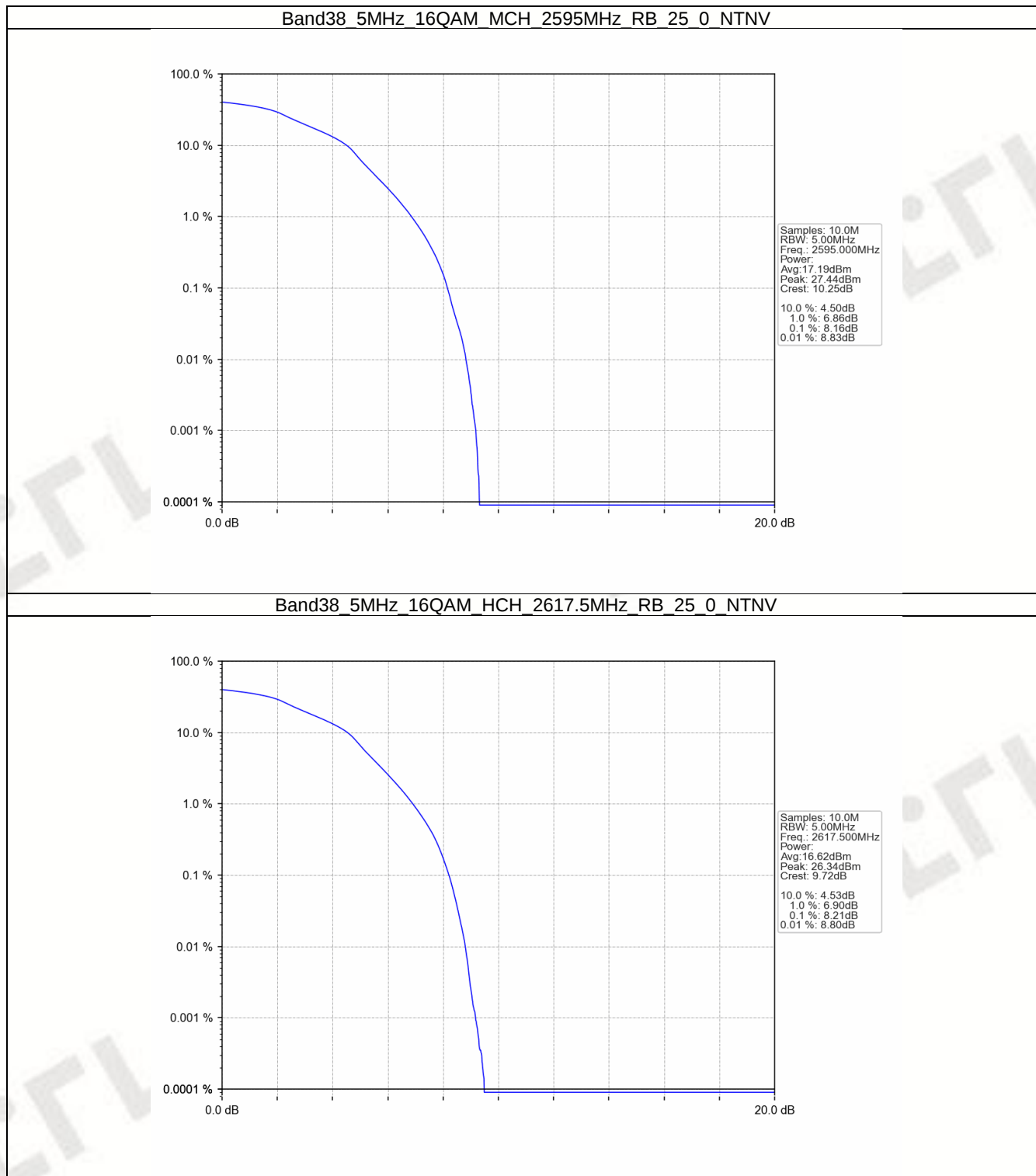
5.2.1 B38_5MHz



FCCID: 2BCUE-P8GLOBAL



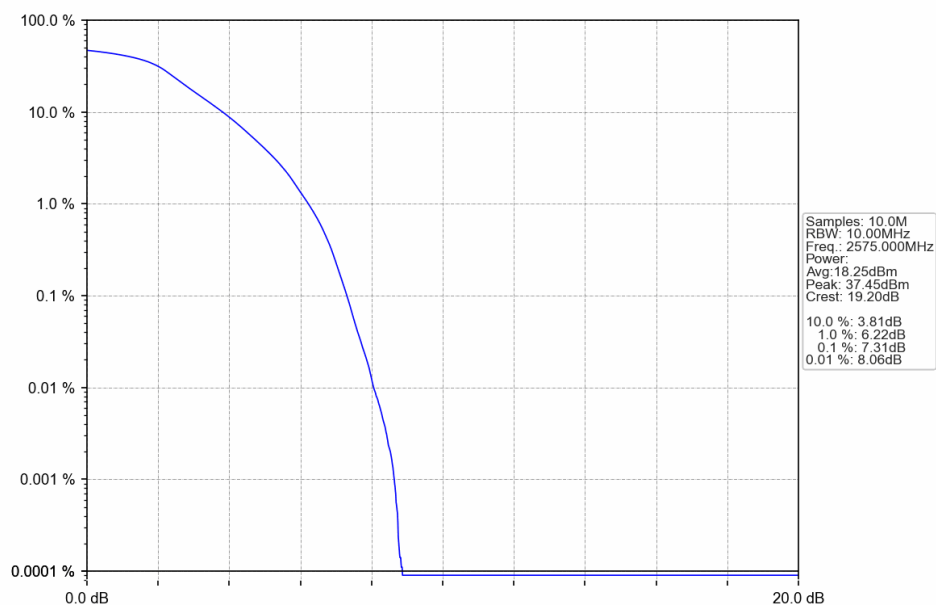
FCCID: 2BCUE-P8GLOBAL



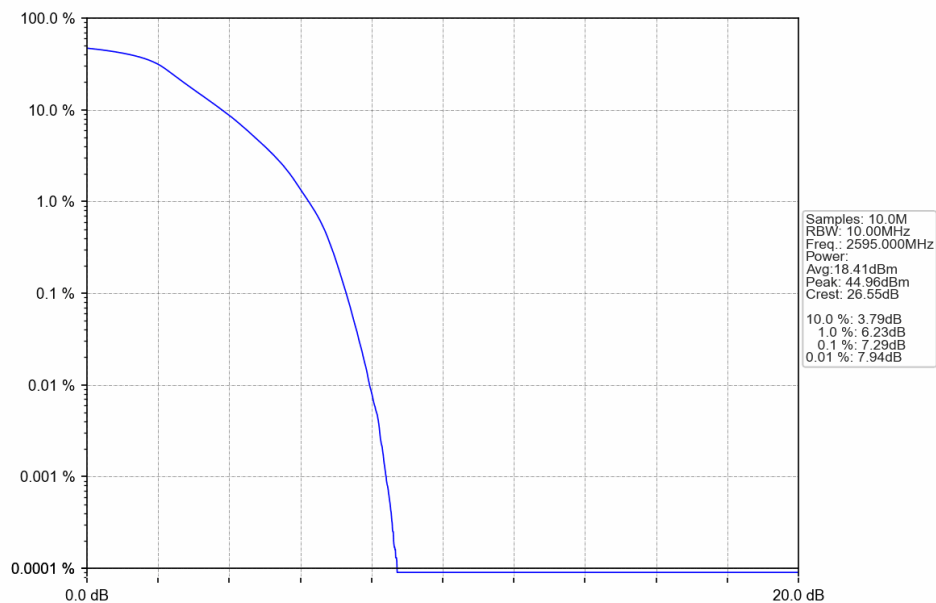
FCCID: 2BCUE-P8GLOBAL

5.2.2 B38_10MHz

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

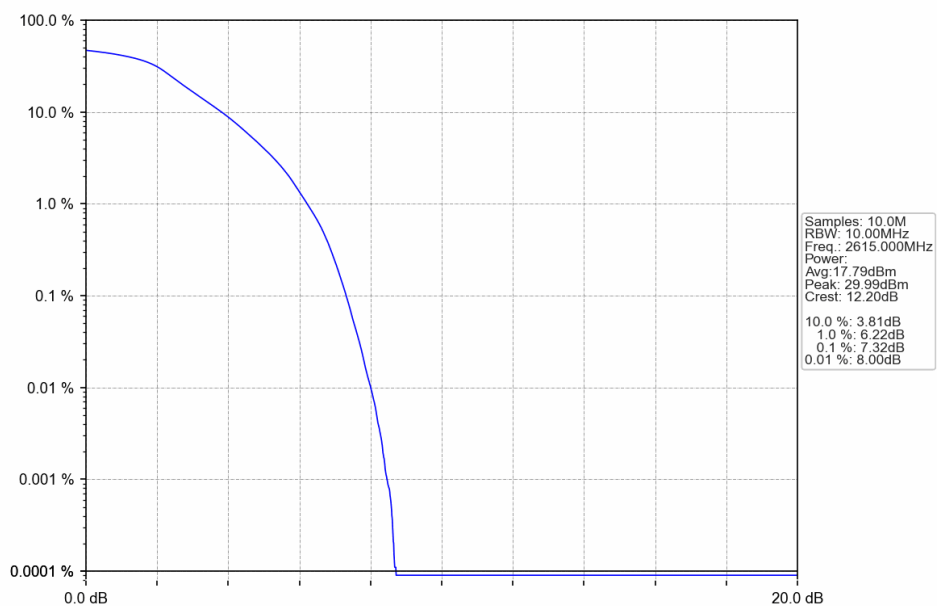


Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV

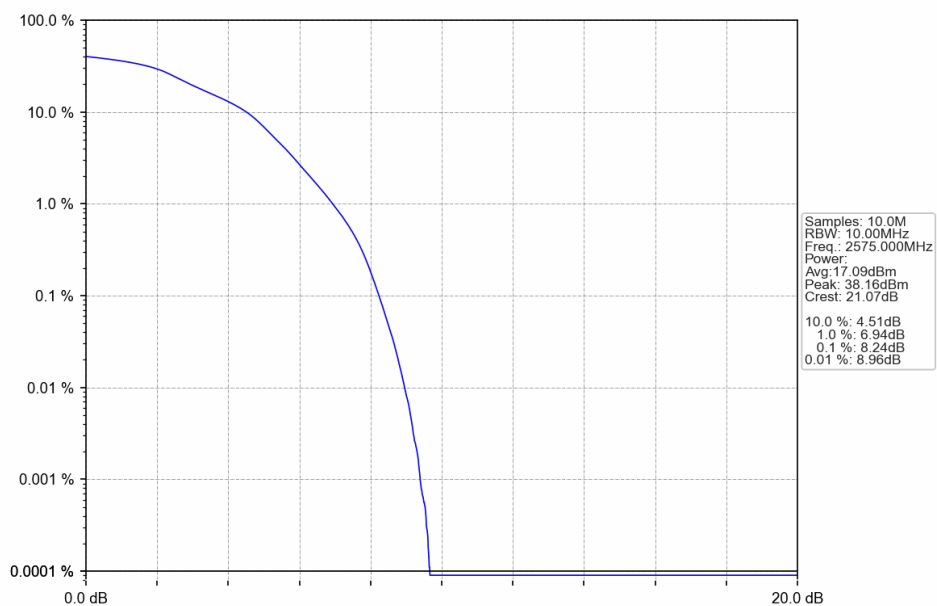


FCCID: 2BCUE-P8GLOBAL

Band38 10MHz QPSK HCH 2615MHz RB 50 0 NTNV

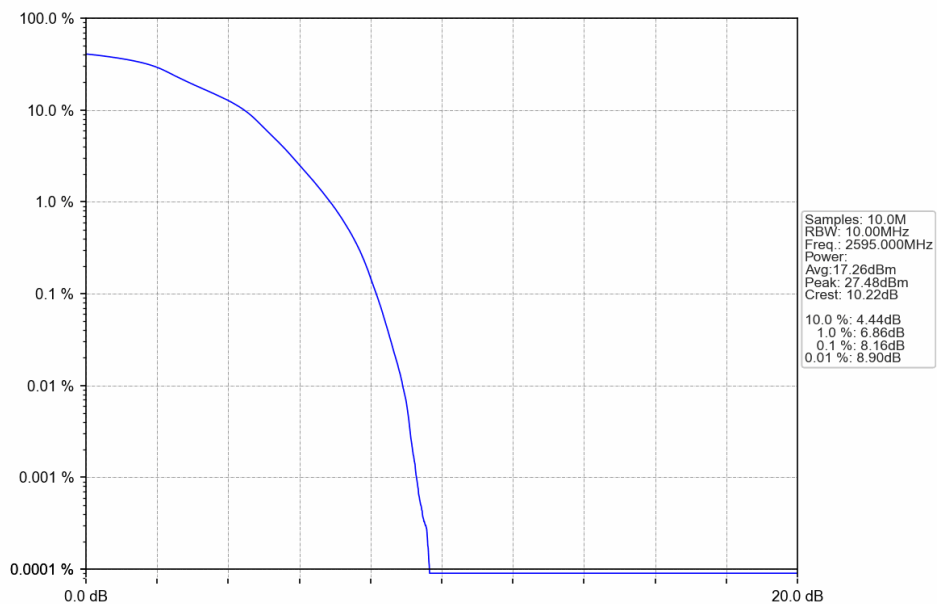


Band38 10MHz 16QAM LCH 2575MHz RB 50 0 NTNV

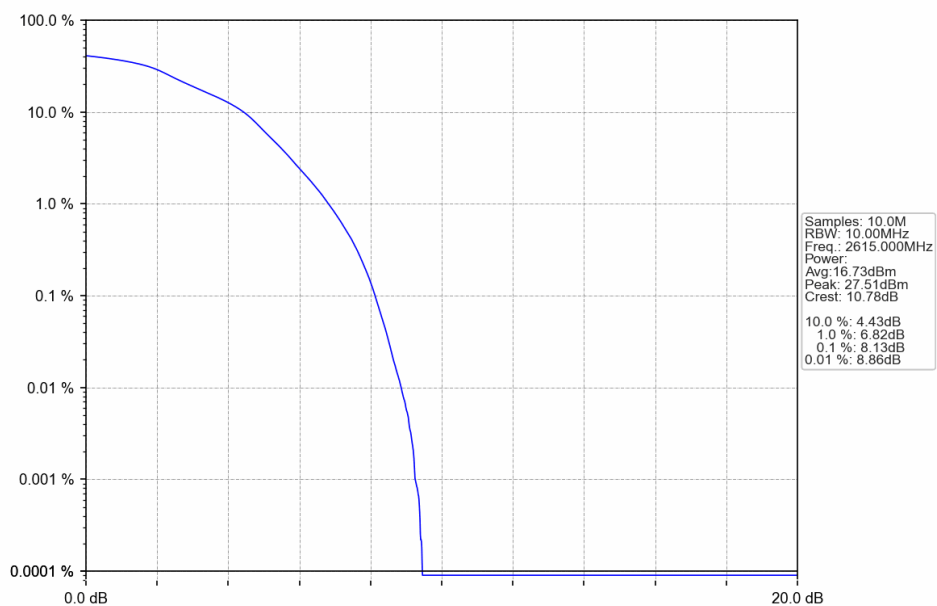


FCCID: 2BCUE-P8GLOBAL

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV

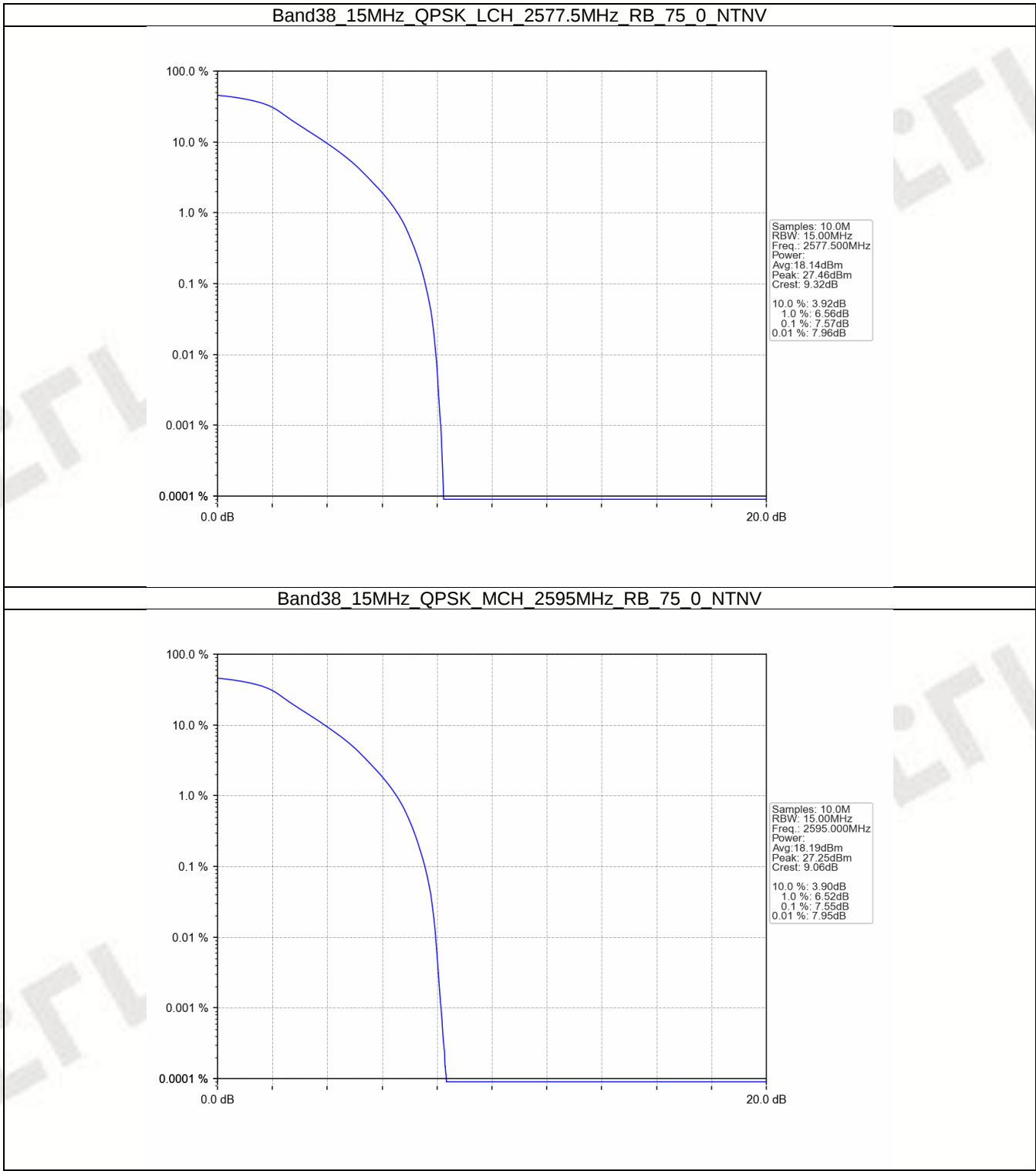


Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



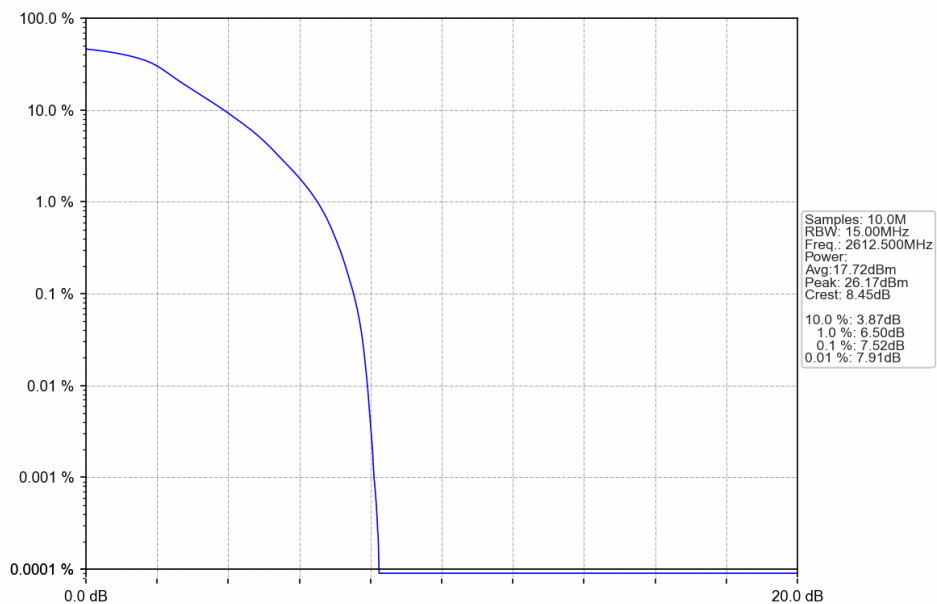
FCCID: 2BCUE-P8GLOBAL

5.2.3 B38_15MHz

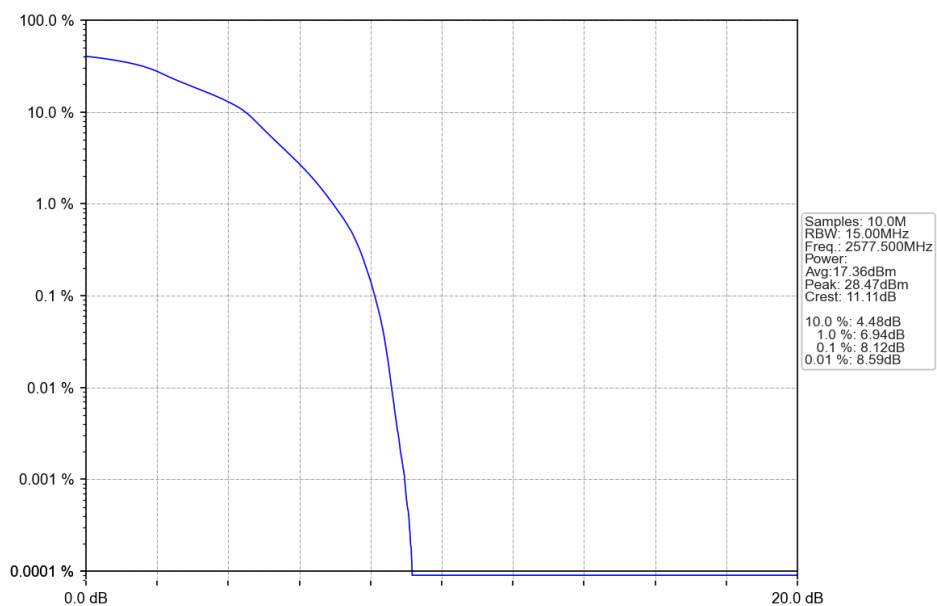


FCCID: 2BCUE-P8GLOBAL

Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTNV

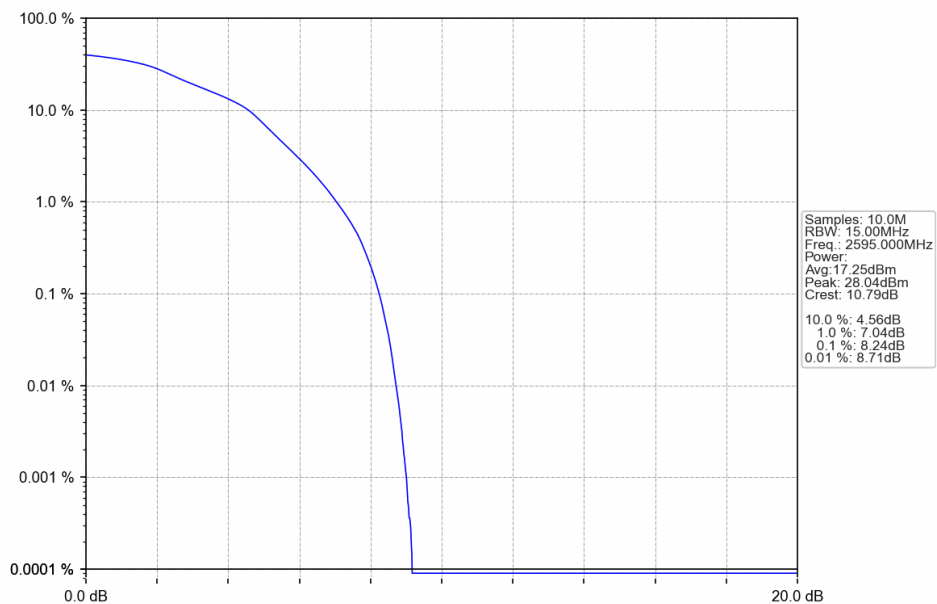


Band38 15MHz 16QAM LCH 2577.5MHz RB 75 0 NTNV

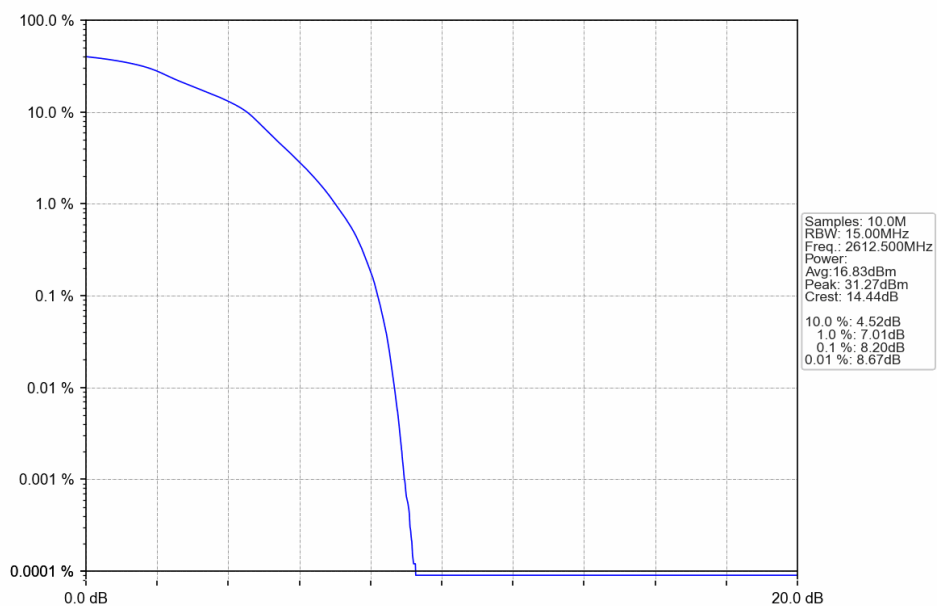


FCCID: 2BCUE-P8GLOBAL

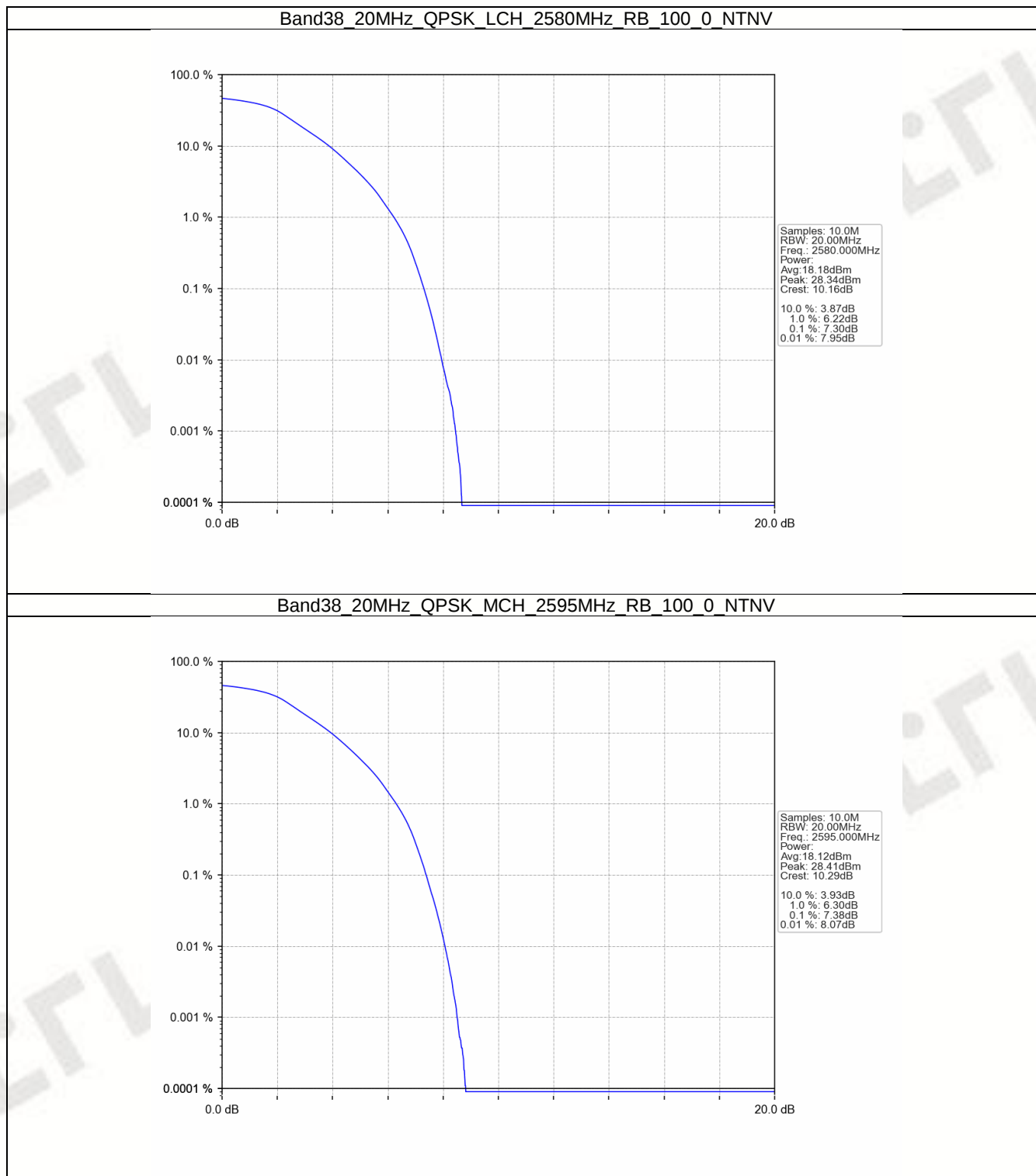
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV

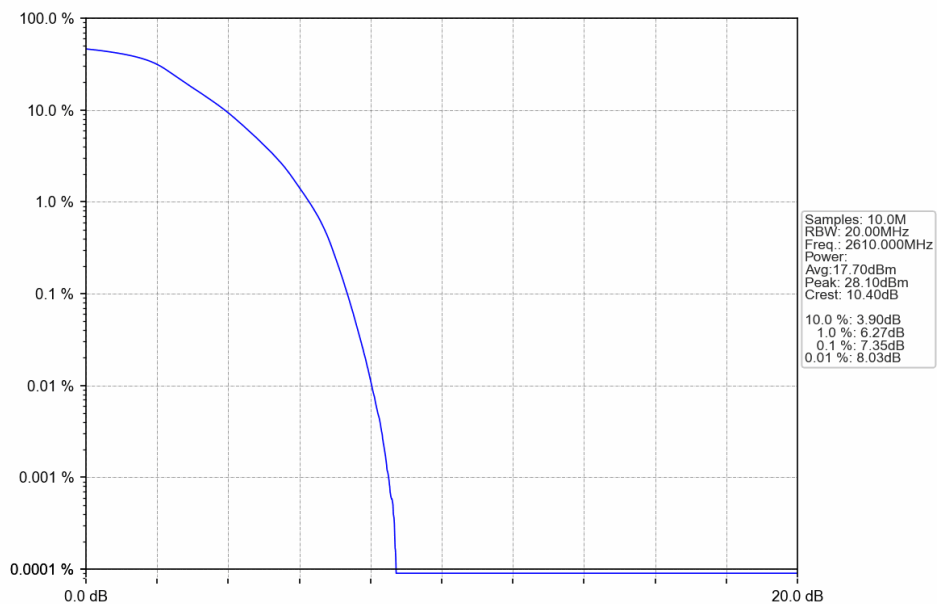


FCCID: 2BCUE-P8GLOBAL

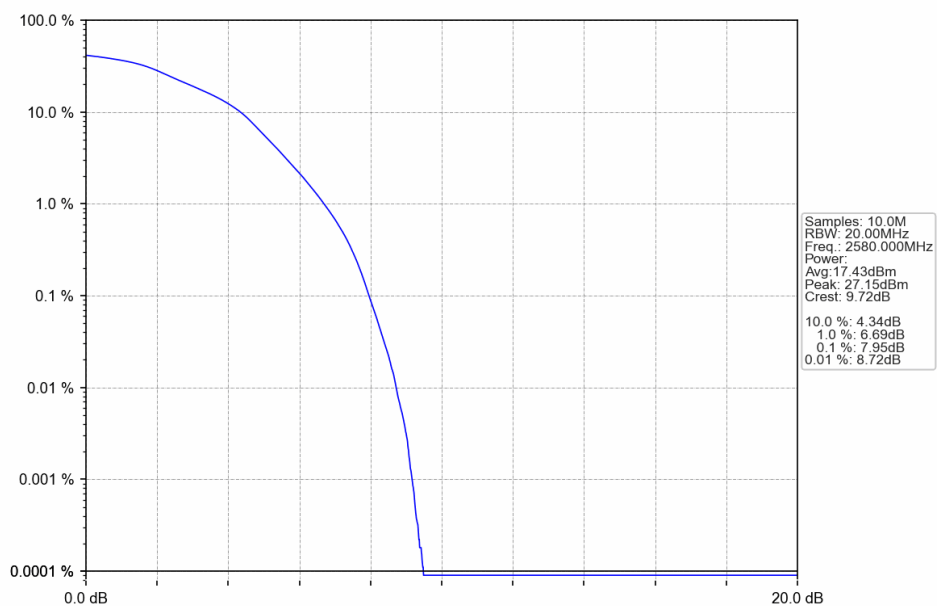
5.2.4 B38_20MHz

FCCID: 2BCUE-P8GLOBAL

Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTNV

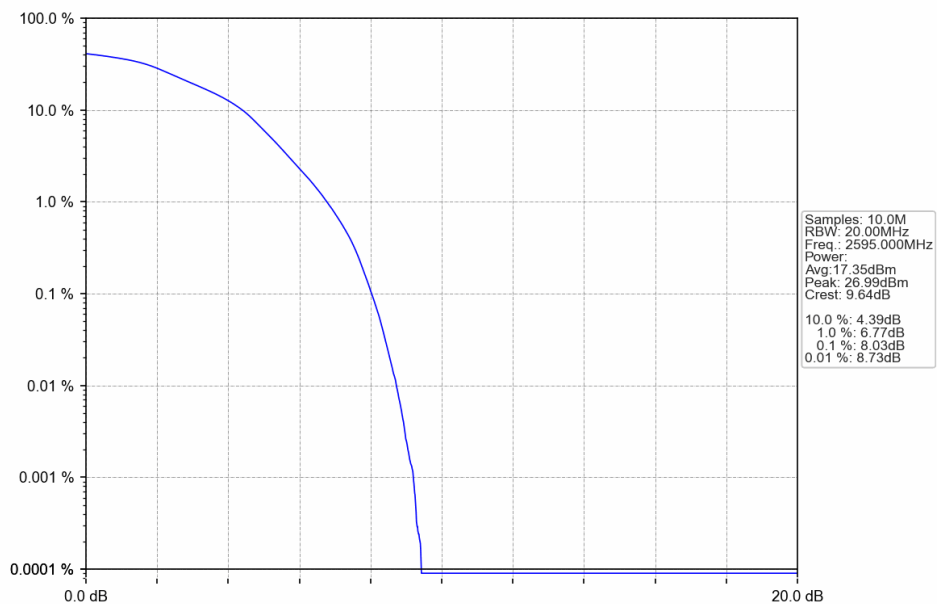


Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTNV

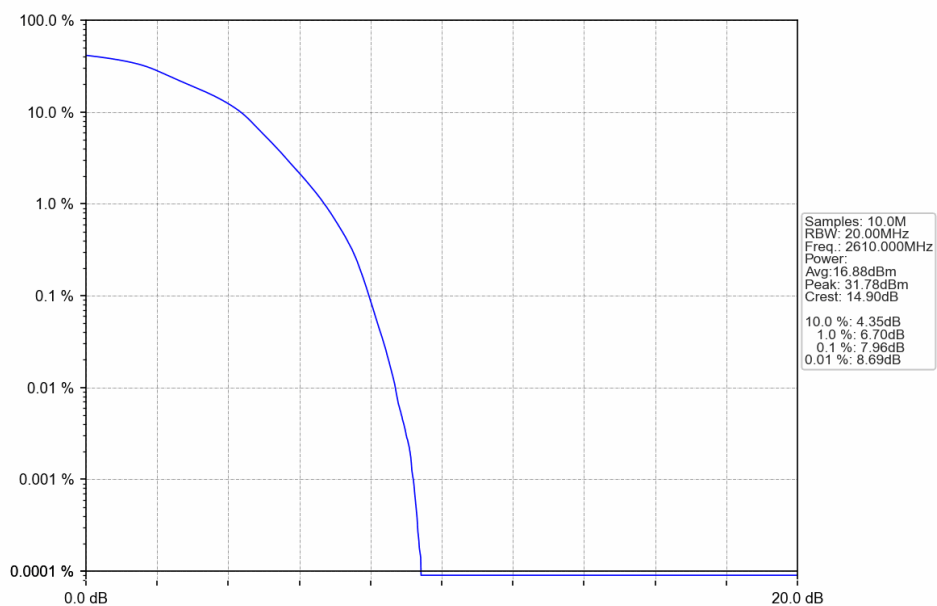


FCCID: 2BCUE-P8GLOBAL

Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2572.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass
16QAM	2572.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass

6.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2575	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass
16QAM	2575	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass

6.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2577.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass
16QAM	2577.5	1	0	Refer To Test Graph	Pass

FCCID: 2BCUE-P8GLOBAL

		75	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2612.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass

6.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

FCCID: 2BCUE-P8GLOBAL

6.2 Test Graph

6.2.1 B38_5MHz

