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VERITAS

Test Report No.: W7L-P20210616-3RF02

FCC TEST REPORT (PART 24)

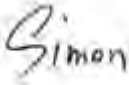

Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0020
Brand Name:	Continental
Model Name:	FE5NA0020
FCC ID:	LHJ-FE5NA0020
HW version:	P4.1
SW version:	MODEMSA515M_01.15.62
Registration No:	525120
Designation No:	CN1171
Date of tests:	Jun. 16, 2021 ~ Nov. 03, 2021

The tests have been carried out according to the requirements of the following standard:

- FCC PART 24, Subpart E** **FCC PART 2**
- ANSI/TIA/EIA-603-D** **ANSI/TIA/EIA-603-E** **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to comply with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Nov. 04, 2021	Date: Nov. 04, 2021

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1. Frequency Stability

1.1 PCS1900

1.1.1 Test Result

Band: PCS1900										
Network	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
GPRS	20	3.6	22.150	28.770	17.140	0.04.00	0.0153	0.0090	-2.5 to 2.5	Pass
		4.0	18.530	23.500	17.950	0.0100	0.04.05	0.0094	-2.5 to 2.5	Pass
		4.4	15.660	26.760	20.400	0.0085	0.0142	0.0107	-2.5 to 2.5	Pass
	-10	4.0	29.4.00	30.830	23.020	0.0157	0.0164	0.04.01	-2.5 to 2.5	Pass
	0	4.0	31.450	24.020	14.430	0.0170	0.04.08	0.0076	-2.5 to 2.5	Pass
	10	4.0	19.150	23.920	18.110	0.0104	0.04.07	0.0095	-2.5 to 2.5	Pass
	30	4.0	19.340	26.730	18.270	0.0105	0.0142	0.0096	-2.5 to 2.5	Pass
	40	4.0	23.4.00	22.470	15.170	0.04.05	0.04.00	0.0079	-2.5 to 2.5	Pass
	50	4.0	29.280	31.320	10.690	0.0158	0.0167	0.0056	-2.5 to 2.5	Pass
EGPRS	20	3.6	29.060	34.580	17.500	0.0157	0.0184	0.0092	-2.5 to 2.5	Pass
		4.0	28.930	21.700	21.110	0.0156	0.0115	0.0111	-2.5 to 2.5	Pass
		4.4	27.480	22.790	15.460	0.0149	0.04.01	0.0081	-2.5 to 2.5	Pass
	-10	4.0	28.510	31.510	22.600	0.0154	0.0168	0.0118	-2.5 to 2.5	Pass
	0	4.0	29.480	23.760	19.240	0.0159	0.04.06	0.0101	-2.5 to 2.5	Pass
	10	4.0	29.900	27.570	18.440	0.0162	0.0147	0.0097	-2.5 to 2.5	Pass
	30	4.0	23.280	26.640	21.860	0.04.06	0.0142	0.0114	-2.5 to 2.5	Pass
	40	4.0	23.050	24.800	26.090	0.04.05	0.0132	0.0137	-2.5 to 2.5	Pass
	50	4.0	24.890	25.020	26.890	0.0135	0.0133	0.0141	-2.5 to 2.5	Pass

1.2 WCDMA Band2

1.2.1 Test Result

Band: 2										
Network	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
RMC	20	3.6	13.360	4.0.920	10.450	0.0072	0.0069	0.0055	-2.5 to 2.5	Pass
		4.0	13.550	11.320	9.390	0.0073	0.0060	0.0049	-2.5 to 2.5	Pass
		4.4	13.600	11.4.00	9.540	0.0073	0.0059	0.0050	-2.5 to 2.5	Pass
	-10	4.0	4.0.920	11.870	9.990	0.0070	0.0063	0.0052	-2.5 to 2.5	Pass
	0	4.0	13.950	11.470	9.310	0.0075	0.0061	0.0049	-2.5 to 2.5	Pass
	10	4.0	13.410	10.610	9.590	0.0072	0.0056	0.0050	-2.5 to 2.5	Pass
	30	4.0	13.4.00	11.290	9.940	0.0071	0.0060	0.0052	-2.5 to 2.5	Pass
	40	4.0	14.080	11.580	10.450	0.0076	0.0062	0.0055	-2.5 to 2.5	Pass
	50	4.0	13.530	10.810	10.060	0.0073	0.0058	0.0053	-2.5 to 2.5	Pass



1.3 LTE Band 2

1.3.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTNV													
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
QPSK	6	0	20	3.6	9.510	15.710	-23.050	0.0051	0.0084	-0.04.01	-2.5 to 2.5	Pass	
				4.0	10.170	4.0.700	-16.990	0.0055	0.0068	-0.0089	-2.5 to 2.5	Pass	
				4.4	6.820	4.450	-16.510	0.0037	0.0024	-0.0086	-2.5 to 2.5	Pass	
			-10	4.0	4.710	11.500	-22.770	0.0025	0.0061	-0.0119	-2.5 to 2.5	Pass	
				0	4.0	0.540	10.800	-19.250	0.0003	0.0057	-0.0101	-2.5 to 2.5	Pass
				10	4.0	8.650	4.690	-17.280	0.0047	0.0025	-0.0091	-2.5 to 2.5	Pass
				30	4.0	1.900	2.570	-4.0.200	0.0010	0.0014	-0.0064	-2.5 to 2.5	Pass
				40	4.0	-2.790	6.170	-7.680	-0.0015	0.0033	-0.0040	-2.5 to 2.5	Pass
50	4.0	-5.620	-4.480	-8.330	-0.0030	-0.0024	-0.0044	-2.5 to 2.5	Pass				
16QAM	6	0	20	3.6	-6.490	6.340	5.390	-0.0035	0.0034	0.0028	-2.5 to 2.5	Pass	
				4.0	3.020	-2.490	-7.520	0.0016	-0.0013	-0.0039	-2.5 to 2.5	Pass	
				4.4	-4.280	0.920	1.040	-0.0023	0.0005	0.0005	-2.5 to 2.5	Pass	
			-10	4.0	-2.330	0.300	-1.140	-0.0013	0.0002	-0.0006	-2.5 to 2.5	Pass	
				0	4.0	5.750	-0.840	2.050	0.0031	-0.0004	0.0011	-2.5 to 2.5	Pass
				10	4.0	2.990	0.860	-5.920	0.0016	0.0005	-0.0031	-2.5 to 2.5	Pass
				30	4.0	-0.240	-0.410	-0.800	-0.0001	-0.0002	-0.0004	-2.5 to 2.5	Pass
				40	4.0	0.410	-3.480	-6.510	0.0002	-0.0019	-0.0034	-2.5 to 2.5	Pass
50	4.0	-5.940	2.290	3.200	-0.0032	0.004.0	0.0017	-2.5 to 2.5	Pass				
64QAM	6	0	20	3.6	19.500	10.030	7.420	0.0105	0.0053	0.0039	-2.5 to 2.5	Pass	
				4.0	15.360	17.190	11.010	0.0083	0.0091	0.0058	-2.5 to 2.5	Pass	
				4.4	13.250	10.690	17.840	0.0072	0.0057	0.0093	-2.5 to 2.5	Pass	
			-10	4.0	8.610	15.710	10.660	0.0047	0.0084	0.0056	-2.5 to 2.5	Pass	
				0	4.0	9.080	7.610	11.960	0.0049	0.0040	0.0063	-2.5 to 2.5	Pass
				10	4.0	13.350	16.920	17.580	0.0072	0.0090	0.0092	-2.5 to 2.5	Pass
				30	4.0	7.280	8.930	10.260	0.0039	0.0048	0.0054	-2.5 to 2.5	Pass
				40	4.0	10.440	5.310	11.4.00	0.0056	0.0028	0.0058	-2.5 to 2.5	Pass
50	4.0	11.660	14.550	4.0.190	0.0063	0.0077	0.0064	-2.5 to 2.5	Pass				
Band: 2 / Bandwidth: 3MHz / NTNV													
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
QPSK	15	0	20	3.6	-5.460	-1.360	2.300	-0.0029	-0.0007	0.004.0	-2.5 to 2.5	Pass	
				4.0	-9.110	-1.590	2.450	-0.0049	-0.0008	0.0013	-2.5 to 2.5	Pass	
				4.4	-6.780	4.880	3.650	-0.0037	0.0026	0.0019	-2.5 to 2.5	Pass	
			-10	4.0	4.980	-0.290	-1.660	0.0027	-0.0002	-0.0009	-2.5 to 2.5	Pass	
				0	4.0	3.230	1.340	-6.840	0.0017	0.0007	-0.0036	-2.5 to 2.5	Pass
				10	4.0	-2.900	5.020	-5.750	-0.0016	0.0027	-0.0030	-2.5 to 2.5	Pass
				30	4.0	1.140	-2.930	-1.690	0.0006	-0.0016	-0.0009	-2.5 to 2.5	Pass
				40	4.0	-3.260	5.350	-1.500	-0.0018	0.0028	-0.0008	-2.5 to 2.5	Pass
50	4.0	-7.380	2.350	4.410	-0.0040	0.0013	0.0023	-2.5 to 2.5	Pass				
16QAM	15	0	20	3.6	0.490	-5.620	-5.190	0.0003	-0.0030	-0.0027	-2.5 to 2.5	Pass	
				4.0	-7.930	-5.140	-4.660	-0.0043	-0.0027	-0.0024	-2.5 to 2.5	Pass	
				4.4	-1.970	5.250	-7.110	-0.0011	0.0028	-0.0037	-2.5 to 2.5	Pass	
			-10	4.0	-3.560	-7.880	0.060	-0.0019	-0.0042	0.0000	-2.5 to 2.5	Pass	
0	4.0	1.750	-3.680	1.820	0.0009	-0.0020	0.0010	-2.5 to 2.5	Pass				

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64QAM	15	0	10	4.0	0.630	0.270	4.920	0.0003	0.0001	0.0026	-2.5 to 2.5	Pass
			30	4.0	-8.050	-0.990	1.850	-0.0043	-0.0005	0.0010	-2.5 to 2.5	Pass
			40	4.0	-3.290	2.820	-6.290	-0.0018	0.0015	-0.0033	-2.5 to 2.5	Pass
			50	4.0	-3.520	3.360	2.550	-0.0019	0.0018	0.0013	-2.5 to 2.5	Pass
			20	3.6	5.950	0.970	-2.790	0.0032	0.0005	-0.0015	-2.5 to 2.5	Pass
				4.0	6.070	6.570	-3.550	0.0033	0.0035	-0.0019	-2.5 to 2.5	Pass
				4.4	-2.350	-4.290	-5.610	-0.0013	-0.0023	-0.0029	-2.5 to 2.5	Pass
			-10	4.0	-0.240	0.970	-0.210	-0.0001	0.0005	-0.0001	-2.5 to 2.5	Pass
			0	4.0	1.360	-1.140	6.970	0.0007	-0.0006	0.0037	-2.5 to 2.5	Pass
			10	4.0	-4.210	-1.240	-0.060	-0.0023	-0.0007	0.0000	-2.5 to 2.5	Pass
			30	4.0	-4.320	4.810	-5.060	-0.0023	0.0026	-0.0027	-2.5 to 2.5	Pass
			40	4.0	-2.190	4.730	6.190	-0.004.0	0.0025	0.0032	-2.5 to 2.5	Pass
			50	4.0	-0.940	-3.920	3.520	-0.0005	-0.0021	0.0018	-2.5 to 2.5	Pass

Band: 2 / Bandwidth: 5MHz / NTV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	25	0	20	3.6	4.890	-6.900	-7.420	0.0026	-0.0037	-0.0039	-2.5 to 2.5	Pass
				4.0	-7.140	-6.670	4.890	-0.0039	-0.0035	0.0026	-2.5 to 2.5	Pass
				4.4	-1.170	-7.380	-3.000	-0.0006	-0.0039	-0.0016	-2.5 to 2.5	Pass
			-10	4.0	-8.980	0.820	-0.840	-0.0048	0.0004	-0.0004	-2.5 to 2.5	Pass
			0	4.0	2.790	4.780	1.240	0.0015	0.0025	0.0007	-2.5 to 2.5	Pass
			10	4.0	-6.680	1.960	2.550	-0.0036	0.0010	0.0013	-2.5 to 2.5	Pass
			30	4.0	-2.200	3.560	-2.200	-0.004.0	0.0019	-0.004.0	-2.5 to 2.5	Pass
			40	4.0	-3.280	4.210	-0.110	-0.0018	0.0022	-0.0001	-2.5 to 2.5	Pass
16QAM	25	0	20	3.6	-1.500	2.170	-0.030	-0.0008	0.004.0	0.0000	-2.5 to 2.5	Pass
				4.0	-1.820	5.180	-0.090	-0.0010	0.0028	0.0000	-2.5 to 2.5	Pass
				4.4	-2.090	2.900	2.160	-0.0011	0.0015	0.0011	-2.5 to 2.5	Pass
			-10	4.0	-6.210	8.140	7.400	-0.0034	0.0043	0.0039	-2.5 to 2.5	Pass
			0	4.0	-0.510	-7.150	-6.010	-0.0003	-0.0038	-0.0032	-2.5 to 2.5	Pass
			10	4.0	-0.130	-6.900	-8.850	-0.0001	-0.0037	-0.0046	-2.5 to 2.5	Pass
			30	4.0	0.560	-5.910	-6.480	0.0003	-0.0031	-0.0034	-2.5 to 2.5	Pass
			40	4.0	6.140	-3.360	-7.400	0.0033	-0.0018	-0.0039	-2.5 to 2.5	Pass
64QAM	25	0	20	3.6	-7.150	-3.690	0.860	-0.0039	-0.0020	0.0005	-2.5 to 2.5	Pass
				4.0	4.680	-2.260	-4.910	0.0025	-0.004.0	-0.0026	-2.5 to 2.5	Pass
				4.4	-3.320	-4.850	8.960	-0.0018	-0.0026	0.0047	-2.5 to 2.5	Pass
			-10	4.0	-2.170	-4.560	8.100	-0.004.0	-0.0024	0.0042	-2.5 to 2.5	Pass
			0	4.0	3.030	6.950	10.910	0.0016	0.0037	0.0057	-2.5 to 2.5	Pass
			10	4.0	-3.750	1.440	7.110	-0.0020	0.0008	0.0037	-2.5 to 2.5	Pass
			30	4.0	6.310	3.860	-2.190	0.0034	0.0021	-0.0011	-2.5 to 2.5	Pass
			40	4.0	0.960	8.470	1.500	0.0005	0.0045	0.0008	-2.5 to 2.5	Pass
50	4.0	0.820	3.960	8.800	0.0004	0.0021	0.0046	-2.5 to 2.5	Pass			

Band: 2 / Bandwidth: 10MHz / NTV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	50	0	20	3.6	2.190	-1.630	-5.010	0.004.0	-0.0009	-0.0026	-2.5 to 2.5	Pass
				4.0	-6.910	4.020	-1.630	-0.0037	0.0021	-0.0009	-2.5 to 2.5	Pass
				4.4	-2.930	4.250	5.480	-0.0016	0.0023	0.0029	-2.5 to 2.5	Pass
			-10	4.0	-9.800	0.110	2.320	-0.0053	0.0001	0.004.0	-2.5 to 2.5	Pass

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			0	4.0	1.170	-7.110	2.960	0.0006	-0.0038	0.0016	-2.5 to 2.5	Pass
			10	4.0	-8.030	-8.230	-6.900	-0.0043	-0.0044	-0.0036	-2.5 to 2.5	Pass
			30	4.0	-6.490	6.740	-7.810	-0.0035	0.0036	-0.0041	-2.5 to 2.5	Pass
			40	4.0	1.460	0.660	0.360	0.0008	0.0004	0.0002	-2.5 to 2.5	Pass
			50	4.0	-6.490	-1.330	4.050	-0.0035	-0.0007	0.0021	-2.5 to 2.5	Pass
16QAM	50	0	20	3.6	1.660	-5.340	3.990	0.0009	-0.0028	0.0021	-2.5 to 2.5	Pass
				4.0	2.350	2.930	1.320	0.0013	0.0007	-2.5 to 2.5	Pass	
				4.4	4.990	-4.410	-4.060	0.0027	-0.0023	-2.5 to 2.5	Pass	
			-10	4.0	3.150	-1.000	2.860	0.0017	-0.0005	0.0015	-2.5 to 2.5	Pass
			0	4.0	-5.610	3.630	-7.100	-0.0030	0.0019	-0.0037	-2.5 to 2.5	Pass
			10	4.0	-1.020	4.4.00	5.440	-0.0005	0.0022	0.0029	-2.5 to 2.5	Pass
			30	4.0	-3.190	-5.680	-7.450	-0.0017	-0.0030	-0.0039	-2.5 to 2.5	Pass
			40	4.0	7.270	-0.760	-1.620	0.0039	-0.0004	-0.0009	-2.5 to 2.5	Pass
			50	4.0	0.530	0.130	3.130	0.0003	0.0001	0.0016	-2.5 to 2.5	Pass
64QAM	50	0	20	3.6	2.330	-6.310	-10.010	0.0013	-0.0034	-0.0053	-2.5 to 2.5	Pass
				4.0	-2.060	-0.540	-5.920	-0.0011	-0.0003	-0.0031	-2.5 to 2.5	Pass
				4.4	4.880	2.190	-7.770	0.0026	0.004.0	-0.0041	-2.5 to 2.5	Pass
			-10	4.0	-4.150	-7.000	-6.390	-0.0022	-0.0037	-0.0034	-2.5 to 2.5	Pass
			0	4.0	-8.000	4.250	4.260	-0.0043	0.0023	0.0022	-2.5 to 2.5	Pass
			10	4.0	-4.850	1.870	3.4.00	-0.0026	0.0010	0.0016	-2.5 to 2.5	Pass
			30	4.0	0.440	-0.860	-0.440	0.0002	-0.0005	-0.0002	-2.5 to 2.5	Pass
			40	4.0	-6.650	0.470	-5.590	-0.0036	0.0003	-0.0029	-2.5 to 2.5	Pass
			50	4.0	2.780	4.530	-0.010	0.0015	0.0024	0.0000	-2.5 to 2.5	Pass
Band: 2 / Bandwidth: 15MHz / NTN												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	75	0	20	3.6	4.950	-8.210	0.740	0.0027	-0.0044	0.0004	-2.5 to 2.5	Pass
				4.0	-0.830	-7.470	2.130	-0.0004	-0.0040	0.0011	-2.5 to 2.5	Pass
				4.4	1.430	-8.500	4.840	0.0008	-0.0045	0.0025	-2.5 to 2.5	Pass
			-10	4.0	-3.290	1.140	-8.680	-0.0018	0.0006	-0.0046	-2.5 to 2.5	Pass
			0	4.0	3.450	-3.530	-7.610	0.0019	-0.0019	-0.0040	-2.5 to 2.5	Pass
			10	4.0	-6.180	2.230	-8.430	-0.0033	0.004.0	-0.0044	-2.5 to 2.5	Pass
			30	4.0	-7.080	-6.490	-1.090	-0.0038	-0.0035	-0.0006	-2.5 to 2.5	Pass
			40	4.0	3.750	-10.930	5.320	0.0020	-0.0058	0.0028	-2.5 to 2.5	Pass
			50	4.0	-2.730	3.910	5.550	-0.0015	0.0021	0.0029	-2.5 to 2.5	Pass
16QAM	75	0	20	3.6	-6.170	1.950	0.800	-0.0033	0.0010	0.0004	-2.5 to 2.5	Pass
				4.0	4.180	-6.590	-7.100	0.0023	-0.0035	-0.0037	-2.5 to 2.5	Pass
				4.4	-3.350	2.220	1.020	-0.0018	0.004.0	0.0005	-2.5 to 2.5	Pass
			-10	4.0	3.530	-0.460	0.890	0.0019	-0.0002	0.0005	-2.5 to 2.5	Pass
			0	4.0	-2.390	-5.150	3.220	-0.0013	-0.0027	0.0017	-2.5 to 2.5	Pass
			10	4.0	0.490	5.590	-9.040	0.0003	0.0030	-0.0048	-2.5 to 2.5	Pass
			30	4.0	-3.380	3.950	1.160	-0.0018	0.0021	0.0006	-2.5 to 2.5	Pass
			40	4.0	-4.210	6.140	-0.400	-0.0023	0.0033	-0.0002	-2.5 to 2.5	Pass
			50	4.0	-2.850	4.430	-0.430	-0.0015	0.0024	-0.0002	-2.5 to 2.5	Pass
64QAM	75	0	20	3.6	4.220	6.550	-1.240	0.0023	0.0035	-0.0007	-2.5 to 2.5	Pass
				4.0	-0.170	-6.140	-2.460	-0.0001	-0.0033	-0.0013	-2.5 to 2.5	Pass
				4.4	-9.630	-3.330	-4.810	-0.0052	-0.0018	-0.0025	-2.5 to 2.5	Pass
			-10	4.0	5.440	4.420	0.340	0.0029	0.0024	0.0002	-2.5 to 2.5	Pass
			0	4.0	-1.430	2.900	-0.620	-0.0008	0.0015	-0.0003	-2.5 to 2.5	Pass
			10	4.0	-5.420	-2.650	-5.870	-0.0029	-0.0014	-0.0031	-2.5 to 2.5	Pass
			30	4.0	-6.370	-3.420	2.920	-0.0034	-0.0018	0.0015	-2.5 to 2.5	Pass
			40	4.0	4.390	5.920	-6.540	0.0024	0.0031	-0.0034	-2.5 to 2.5	Pass
			50	4.0	-4.130	4.150	7.850	-0.0022	0.0022	0.0041	-2.5 to 2.5	Pass
Band: 2 / Bandwidth: 20MHz / NTN												

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BUREAU VERITAS Test Report No.: W7L-P20210616-3RF02

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
QPSK	100	0	20	3.6	-0.620	-0.230	1.620	-0.0003	-0.0001	0.0009	-2.5 to 2.5	Pass	
				4.0	0.940	-4.180	7.020	0.0005	-0.0022	0.0037	-2.5 to 2.5	Pass	
				4.4	4.320	1.800	2.520	0.0023	0.0010	0.0013	-2.5 to 2.5	Pass	
			-10	4.0	-3.160	4.980	-6.310	-0.0017	0.0026	-0.0033	-2.5 to 2.5	Pass	
				0	4.0	1.220	3.080	-6.020	0.0007	0.0016	-0.0032	-2.5 to 2.5	Pass
				10	4.0	-6.820	-1.860	-3.730	-0.0037	-0.0010	-0.0020	-2.5 to 2.5	Pass
				30	4.0	1.500	1.390	-2.500	0.0008	0.0007	-0.0013	-2.5 to 2.5	Pass
				40	4.0	-4.090	3.230	2.500	-0.0022	0.0017	0.0013	-2.5 to 2.5	Pass
50	4.0	5.750	-1.990	-7.600	0.0031	-0.0011	-0.0040	-2.5 to 2.5	Pass				
16QAM	100	0	20	3.6	-3.180	4.030	-2.350	-0.0017	0.0021	-0.0040	-2.5 to 2.5	Pass	
				4.0	0.130	-3.910	-9.140	0.0001	-0.0021	-0.0048	-2.5 to 2.5	Pass	
				4.4	-2.150	-7.910	5.310	-0.0040	-0.0042	0.0028	-2.5 to 2.5	Pass	
			-10	4.0	1.060	-6.720	1.100	0.0006	-0.0036	0.0006	-2.5 to 2.5	Pass	
				0	4.0	-7.740	-7.950	5.710	-0.0042	-0.0042	0.0030	-2.5 to 2.5	Pass
				10	4.0	3.930	-5.710	-5.810	0.0021	-0.0030	-0.0031	-2.5 to 2.5	Pass
				30	4.0	0.230	1.400	-1.360	0.0001	0.0006	-0.0007	-2.5 to 2.5	Pass
				40	4.0	-2.330	-2.860	-5.650	-0.0013	-0.0015	-0.0030	-2.5 to 2.5	Pass
50	4.0	-0.260	-1.990	-3.000	-0.0001	-0.0011	-0.0016	-2.5 to 2.5	Pass				
64QAM	100	0	20	3.6	4.820	-7.210	3.080	0.0026	-0.0038	0.0016	-2.5 to 2.5	Pass	
				4.0	-5.740	-4.250	-9.370	-0.0031	-0.0023	-0.0049	-2.5 to 2.5	Pass	
				4.4	-6.350	-1.820	2.100	-0.0034	-0.0010	0.0011	-2.5 to 2.5	Pass	
			-10	4.0	2.690	4.940	-7.400	0.0014	0.0026	-0.0039	-2.5 to 2.5	Pass	
				0	4.0	-8.070	-0.800	-7.380	-0.0043	-0.0004	-0.0039	-2.5 to 2.5	Pass
				10	4.0	-7.210	-4.650	-6.390	-0.0039	-0.0025	-0.0034	-2.5 to 2.5	Pass
				30	4.0	4.580	-4.220	-5.360	0.0025	-0.0022	-0.0028	-2.5 to 2.5	Pass
				40	4.0	-0.010	-0.720	2.400	0.0000	-0.0004	0.0013	-2.5 to 2.5	Pass
50	4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass				

1.4 LTE Band 25

1.4.1 Test Result

Band: 25 / Bandwidth: 1.4MHz / NTV													
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
QPSK	6	0	20	3.6	2.780	-4.840	-1.970	0.0015	-0.0026	-0.0010	-2.5 to 2.5	Pass	
				4.0	3.080	10.760	-2.450	0.0017	0.0057	-0.0013	-2.5 to 2.5	Pass	
				4.4	-8.400	-0.270	5.360	-0.0045	-0.0001	0.0028	-2.5 to 2.5	Pass	
			-10	4.0	-7.740	-4.910	2.730	-0.0042	-0.0026	0.0014	-2.5 to 2.5	Pass	
				0	4.0	3.950	-6.110	2.450	0.0021	-0.0032	0.0013	-2.5 to 2.5	Pass
				10	4.0	-4.220	-7.900	-1.560	-0.0023	-0.0042	-0.0008	-2.5 to 2.5	Pass
				30	4.0	4.650	7.250	3.830	0.0025	0.0039	0.0020	-2.5 to 2.5	Pass
				40	4.0	-1.790	-0.560	-0.730	-0.0010	-0.0003	-0.0004	-2.5 to 2.5	Pass
50	4.0	5.540	-3.230	-4.490	0.0030	-0.0017	-0.0023	-2.5 to 2.5	Pass				
16QAM	6	0	20	3.6	2.420	2.950	-4.960	0.0013	0.0016	-0.0026	-2.5 to 2.5	Pass	
				4.0	3.560	-5.820	5.970	0.0019	-0.0031	0.0031	-2.5 to 2.5	Pass	
				4.4	-1.750	-0.240	6.610	-0.0009	-0.0001	0.0035	-2.5 to 2.5	Pass	
			-10	4.0	-2.980	-0.890	-2.980	-0.0016	-0.0005	-0.0016	-2.5 to 2.5	Pass	
				0	4.0	1.820	7.500	5.220	0.0010	0.0040	0.0027	-2.5 to 2.5	Pass
10	4.0	-4.980	1.760	-3.100	-0.0027	0.0009	-0.0016	-2.5 to 2.5	Pass				

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64QAM	6	0	30	4.0	-9.140	-0.960	5.740	-0.0049	-0.0005	0.0030	-2.5 to 2.5	Pass
			40	4.0	-2.720	6.380	-5.540	-0.0015	0.0034	-0.0029	-2.5 to 2.5	Pass
			50	4.0	4.010	2.530	-7.420	0.0022	0.0013	-0.0039	-2.5 to 2.5	Pass
			20	3.6	3.180	0.960	-4.950	0.0017	0.0005	-0.0026	-2.5 to 2.5	Pass
				4.0	-4.880	-5.990	3.690	-0.0026	-0.0032	0.0019	-2.5 to 2.5	Pass
				4.4	0.660	-10.510	-3.080	0.0004	-0.0056	-0.0016	-2.5 to 2.5	Pass
			-10	4.0	6.040	-0.500	-4.890	0.0033	-0.0003	-0.0026	-2.5 to 2.5	Pass
			0	4.0	0.230	-4.360	-3.100	0.0001	-0.0023	-0.0016	-2.5 to 2.5	Pass
			10	4.0	-2.830	1.660	-6.480	-0.0015	0.0009	-0.0034	-2.5 to 2.5	Pass
30	4.0	-7.770	4.210	3.720	-0.0042	0.0022	0.0019	-2.5 to 2.5	Pass			
40	4.0	-0.240	-3.450	4.310	-0.0001	-0.0018	0.0023	-2.5 to 2.5	Pass			
50	4.0	-5.210	5.920	3.710	-0.0028	0.0031	0.0019	-2.5 to 2.5	Pass			

Band: 25 / Bandwidth: 3MHz / NTN

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	15	0	20	3.6	4.920	-6.210	3.650	0.0027	-0.0033	0.0019	-2.5 to 2.5	Pass
				4.0	-5.050	-6.610	1.090	-0.0027	-0.0035	0.0006	-2.5 to 2.5	Pass
				4.4	5.920	4.410	4.460	0.0032	0.0023	0.0023	-2.5 to 2.5	Pass
			-10	4.0	7.750	-7.620	7.240	0.0042	-0.0040	0.0038	-2.5 to 2.5	Pass
			0	4.0	-5.910	-8.740	-8.830	-0.0032	-0.0046	-0.0046	-2.5 to 2.5	Pass
			10	4.0	-2.400	-6.070	-5.240	-0.0013	-0.0032	-0.0027	-2.5 to 2.5	Pass
			30	4.0	-7.850	8.800	5.590	-0.0042	0.0047	0.0029	-2.5 to 2.5	Pass
			40	4.0	5.160	5.320	4.360	0.0028	0.0028	0.0023	-2.5 to 2.5	Pass
16QAM	15	0	20	3.6	-6.370	5.260	-7.480	-0.0034	0.0028	-0.0039	-2.5 to 2.5	Pass
				4.0	-6.250	5.840	3.280	-0.0034	0.0031	0.0017	-2.5 to 2.5	Pass
				4.4	5.690	-11.420	-5.050	0.0031	-0.0061	-0.0026	-2.5 to 2.5	Pass
			-10	4.0	-1.520	-4.0670	6.720	-0.0008	-0.0067	0.0035	-2.5 to 2.5	Pass
			0	4.0	7.610	-11.070	-0.230	0.0041	-0.0059	-0.0001	-2.5 to 2.5	Pass
			10	4.0	-1.000	-7.900	-0.740	-0.0005	-0.0042	-0.0004	-2.5 to 2.5	Pass
			30	4.0	-4.380	-8.400	-2.680	-0.0024	-0.0045	-0.0014	-2.5 to 2.5	Pass
			40	4.0	5.400	-10.210	3.910	0.0028	-0.0054	0.0020	-2.5 to 2.5	Pass
64QAM	15	0	20	3.6	-7.470	-7.210	4.510	-0.0040	-0.0038	0.0024	-2.5 to 2.5	Pass
				4.0	2.690	1.600	-7.940	0.0015	0.0008	-0.0041	-2.5 to 2.5	Pass
				4.4	-0.470	3.550	-2.850	-0.0003	0.0019	-0.0015	-2.5 to 2.5	Pass
			-10	4.0	-7.150	8.000	1.390	-0.0039	0.0042	0.0007	-2.5 to 2.5	Pass
			0	4.0	3.150	8.240	-0.370	0.0017	0.0044	-0.0002	-2.5 to 2.5	Pass
			10	4.0	6.380	6.940	0.990	0.0034	0.0037	0.0005	-2.5 to 2.5	Pass
			30	4.0	-1.420	7.070	5.060	-0.0008	0.0038	0.0026	-2.5 to 2.5	Pass
			40	4.0	-1.900	2.600	3.160	-0.0010	0.0014	0.0017	-2.5 to 2.5	Pass
50	4.0	-7.640	3.360	3.050	-0.0041	0.0018	0.0016	-2.5 to 2.5	Pass			

Band: 25 / Bandwidth: 5MHz / NTN

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	25	0	20	3.6	3.910	-0.620	4.980	0.0021	-0.0003	0.0026	-2.5 to 2.5	Pass
				4.0	-6.610	-7.480	2.290	-0.0036	-0.0040	0.0040	-2.5 to 2.5	Pass
				4.4	-3.720	0.140	2.880	-0.0020	0.0001	0.0015	-2.5 to 2.5	Pass
			-10	4.0	-7.800	-8.110	2.470	-0.0042	-0.0043	0.0013	-2.5 to 2.5	Pass
			0	4.0	1.220	0.760	-3.430	0.0007	0.0004	-0.0018	-2.5 to 2.5	Pass
			10	4.0	-4.020	3.560	4.610	-0.0022	0.0019	0.0024	-2.5 to 2.5	Pass
			30	4.0	5.620	-4.260	0.110	0.0030	-0.0023	0.0001	-2.5 to 2.5	Pass
			40	4.0	7.200	-9.160	-1.530	0.0039	-0.0049	-0.0008	-2.5 to 2.5	Pass
50	4.0	6.620	-3.200	3.100	0.0036	-0.0017	0.0016	-2.5 to 2.5	Pass			

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16QAM	25	0	20	3.6	-8.980	-0.900	-6.550	-0.0048	-0.0005	-0.0034	-2.5 to 2.5	Pass	
				4.0	-3.760	-6.220	-5.080	-0.0020	-0.0033	-0.0027	-2.5 to 2.5	Pass	
				4.4	1.000	2.260	-6.900	0.0005	0.004.0	-0.0036	-2.5 to 2.5	Pass	
			-10	4.0	-6.390	-7.640	-2.890	-0.0034	-0.0041	-0.0015	-2.5 to 2.5	Pass	
				0	4.0	-0.770	-2.450	-4.410	-0.0004	-0.0013	-0.0023	-2.5 to 2.5	Pass
				10	4.0	-1.920	0.700	-0.890	-0.0010	0.0004	-0.0005	-2.5 to 2.5	Pass
				30	4.0	3.260	-4.850	-7.180	0.0018	-0.0026	-0.0038	-2.5 to 2.5	Pass
				40	4.0	-5.440	-0.310	-3.060	-0.0029	-0.0002	-0.0016	-2.5 to 2.5	Pass
50	4.0	-9.180	8.210	-6.940	-0.0050	0.0044	-0.0036	-2.5 to 2.5	Pass				

Band: 25 / Bandwidth: 10MHz / NTV

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
QPSK	50	0	20	3.6	5.640	-2.650	2.530	0.0030	-0.0014	0.0013	-2.5 to 2.5	Pass	
				4.0	7.820	-2.070	-2.000	0.0042	-0.0011	-0.0010	-2.5 to 2.5	Pass	
				4.4	-6.900	-11.600	3.860	-0.0037	-0.0062	0.0020	-2.5 to 2.5	Pass	
			-10	4.0	2.680	-8.850	-6.280	0.0014	-0.0047	-0.0033	-2.5 to 2.5	Pass	
				0	4.0	-0.840	-13.320	-1.720	-0.0005	-0.0071	-0.0009	-2.5 to 2.5	Pass
				10	4.0	1.490	0.800	-2.950	0.0008	0.0004	-0.0015	-2.5 to 2.5	Pass
				30	4.0	-0.410	-1.370	-7.050	-0.0002	-0.0007	-0.0037	-2.5 to 2.5	Pass
				40	4.0	1.320	-0.830	-5.840	0.0007	-0.0004	-0.0031	-2.5 to 2.5	Pass
50	4.0	-4.290	-5.080	-5.080	-0.0023	-0.0027	-0.0027	-2.5 to 2.5	Pass				
16QAM	50	0	20	3.6	-5.240	1.700	0.030	-0.0028	0.0009	0.0000	-2.5 to 2.5	Pass	
				4.0	-4.430	2.790	-9.700	-0.0024	0.0015	-0.0051	-2.5 to 2.5	Pass	
				4.4	-0.140	-10.600	5.290	-0.0001	-0.0056	0.0028	-2.5 to 2.5	Pass	
			-10	4.0	6.520	5.880	-0.190	0.0035	0.0031	-0.0001	-2.5 to 2.5	Pass	
				0	4.0	-2.620	5.840	0.060	-0.0014	0.0031	0.0000	-2.5 to 2.5	Pass
				10	4.0	0.970	-6.450	-5.680	0.0005	-0.0034	-0.0030	-2.5 to 2.5	Pass
				30	4.0	1.390	-2.990	-4.990	0.0007	-0.0016	-0.0026	-2.5 to 2.5	Pass
				40	4.0	-8.100	-8.970	3.760	-0.0044	-0.0048	0.0020	-2.5 to 2.5	Pass
50	4.0	6.690	-10.240	-4.360	0.0036	-0.0054	-0.0023	-2.5 to 2.5	Pass				
64QAM	50	0	20	3.6	-4.480	9.230	2.600	-0.0024	0.0049	0.0014	-2.5 to 2.5	Pass	
				4.0	-3.780	-7.320	-3.550	-0.0020	-0.0039	-0.0019	-2.5 to 2.5	Pass	
				4.4	0.840	-6.980	-8.480	0.0005	-0.0037	-0.0044	-2.5 to 2.5	Pass	
			-10	4.0	0.230	-8.140	5.910	0.0001	-0.0043	0.0031	-2.5 to 2.5	Pass	
				0	4.0	-5.050	7.980	1.820	-0.0027	0.0042	0.0010	-2.5 to 2.5	Pass
				10	4.0	4.030	6.390	-2.590	0.0022	0.0034	-0.0014	-2.5 to 2.5	Pass
				30	4.0	1.760	7.350	-7.550	0.0009	0.0039	-0.0040	-2.5 to 2.5	Pass
				40	4.0	0.660	6.980	6.570	0.0004	0.0037	0.0034	-2.5 to 2.5	Pass
50	4.0	0.300	4.750	6.650	0.0002	0.0025	0.0035	-2.5 to 2.5	Pass				

Band: 25 / Bandwidth: 15MHz / NTV

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	75	0	20	3.6	-5.110	-2.520	3.880	-0.0028	-0.0013	0.0020	-2.5 to 2.5	Pass
				4.0	0.400	-9.380	-2.550	0.0002	-0.0050	-0.0013	-2.5 to 2.5	Pass
				4.4	-6.920	-9.360	-1.390	-0.0037	-0.0050	-0.0007	-2.5 to 2.5	Pass

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Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)			Verdict		
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		Limit	
16QAM	75	0	20	3.6	6.720	-11.990	-2.350	0.0036	-0.0064	-0.004.0	-2.5 to 2.5	Pass	
				4.0	-5.560	-11.360	-8.180	-0.0030	-0.0060	-0.0043	-2.5 to 2.5	Pass	
				4.4	3.560	-9.130	3.220	0.0019	-0.0048	-0.0017	-2.5 to 2.5	Pass	
				-10	4.0	-6.140	-7.950	0.410	-0.0033	-0.0042	0.0002	-2.5 to 2.5	Pass
				0	4.0	5.040	-6.640	0.560	0.0027	-0.0035	0.0003	-2.5 to 2.5	Pass
				10	4.0	-3.350	3.380	-2.780	-0.0018	0.0018	-0.0015	-2.5 to 2.5	Pass
				30	4.0	-4.610	-11.330	0.830	-0.0025	-0.0060	0.0004	-2.5 to 2.5	Pass
				40	4.0	-5.660	0.170	1.930	-0.0030	0.0001	0.0010	-2.5 to 2.5	Pass
				50	4.0	-5.640	7.910	3.860	-0.0030	0.0042	0.0020	-2.5 to 2.5	Pass
				Band: 25 / Bandwidth: 20MHz / NTNV									
QPSK	100	0	20	3.6	-4.080	-10.060	-4.510	-0.0022	-0.0053	-0.0024	-2.5 to 2.5	Pass	
				4.0	-4.940	-7.300	4.920	-0.0027	-0.0039	0.0026	-2.5 to 2.5	Pass	
				4.4	-1.240	-6.290	5.4.00	-0.0007	-0.0033	0.0027	-2.5 to 2.5	Pass	
				-10	4.0	-2.520	0.760	3.680	-0.0014	0.0004	0.0019	-2.5 to 2.5	Pass
				0	4.0	0.800	5.040	-2.130	0.0004	0.0027	-0.0011	-2.5 to 2.5	Pass
				10	4.0	-1.090	-0.390	2.400	-0.0006	-0.0002	0.0013	-2.5 to 2.5	Pass
				30	4.0	-4.910	-0.190	-7.450	-0.0026	-0.0001	-0.0039	-2.5 to 2.5	Pass
				40	4.0	-1.220	3.960	-5.510	-0.0007	0.0021	-0.0029	-2.5 to 2.5	Pass
				50	4.0	-2.920	2.550	-0.510	-0.0016	0.0014	-0.0003	-2.5 to 2.5	Pass
				16QAM	100	0	20	3.6	-0.670	1.790	3.560	-0.0004	0.0010
4.0	-0.720	-6.280	-7.470					-0.0004	-0.0033	-0.0039	-2.5 to 2.5	Pass	
4.4	-5.840	-3.030	-7.900					-0.0031	-0.0016	-0.0041	-2.5 to 2.5	Pass	
-10	4.0	1.630	1.300					-4.530	0.0009	0.0007	-0.0024	-2.5 to 2.5	Pass
0	4.0	-7.940	-9.830					4.730	-0.0043	-0.0052	0.0025	-2.5 to 2.5	Pass
10	4.0	-8.580	7.4.00					-6.080	-0.0046	0.0038	-0.0032	-2.5 to 2.5	Pass
30	4.0	-7.870	-9.730					-3.200	-0.0042	-0.0052	-0.0017	-2.5 to 2.5	Pass
40	4.0	-5.650	6.250					-2.450	-0.0030	0.0033	-0.0013	-2.5 to 2.5	Pass
50	4.0	-4.510	5.350					-1.420	-0.0024	0.0028	-0.0007	-2.5 to 2.5	Pass
64QAM	100	0	20					3.6	-0.660	-4.820	-3.530	-0.0004	-0.0026
				4.0	-7.840	-8.370	-2.600	-0.0042	-0.0044	-0.0014	-2.5 to 2.5	Pass	
				4.4	0.300	-3.000	-2.520	0.0002	-0.0016	-0.0013	-2.5 to 2.5	Pass	
				-10	4.0	4.420	-3.830	4.680	0.0024	-0.0020	0.0025	-2.5 to 2.5	Pass
				0	4.0	-5.150	-8.210	-6.490	-0.0028	-0.0044	-0.0034	-2.5 to 2.5	Pass
				10	4.0	1.760	-0.330	-6.980	0.0009	-0.0002	-0.0037	-2.5 to 2.5	Pass
				30	4.0	-9.330	-7.700	-1.130	-0.0050	-0.0041	-0.0006	-2.5 to 2.5	Pass
				40	4.0	3.830	-2.570	2.050	0.0021	-0.0014	0.0011	-2.5 to 2.5	Pass
				50	4.0	-2.730	6.070	4.450	-0.0015	0.0032	0.0023	-2.5 to 2.5	Pass

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2. 99% & 26dB Bandwidth

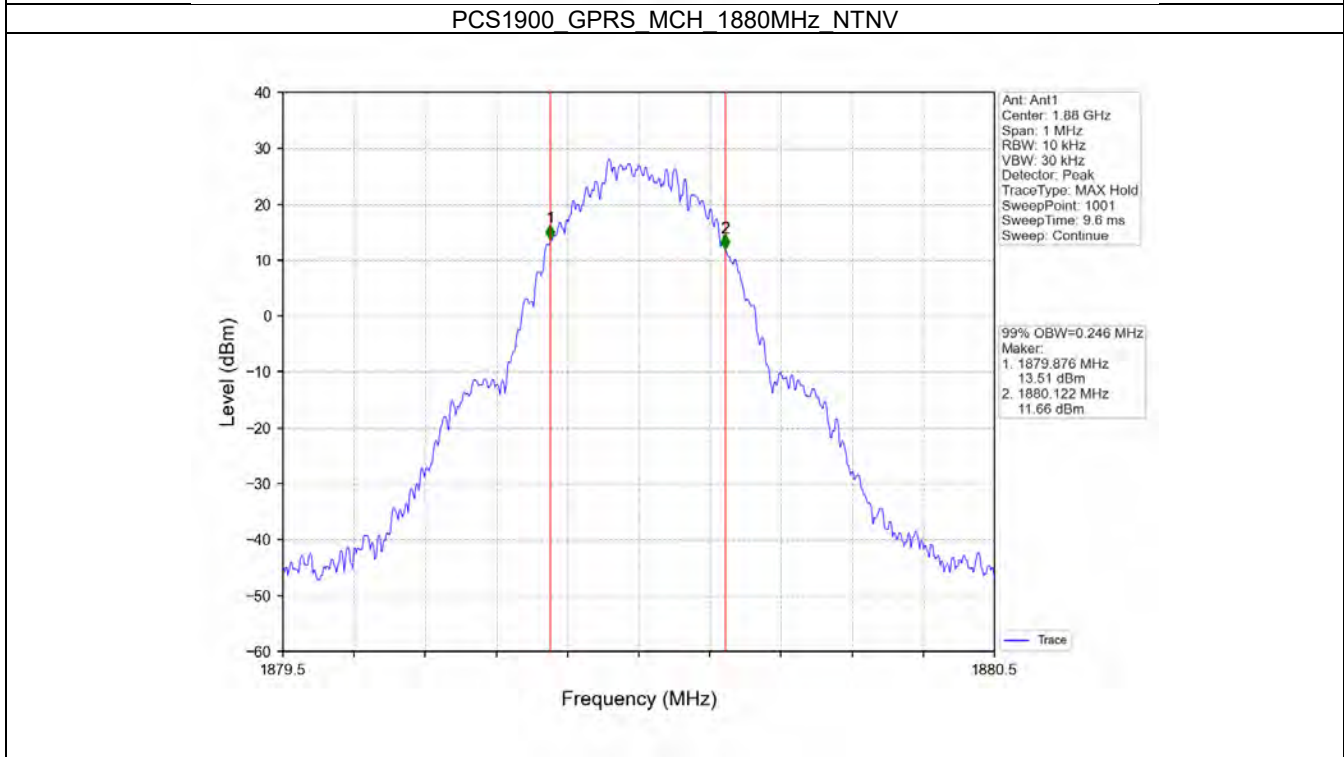
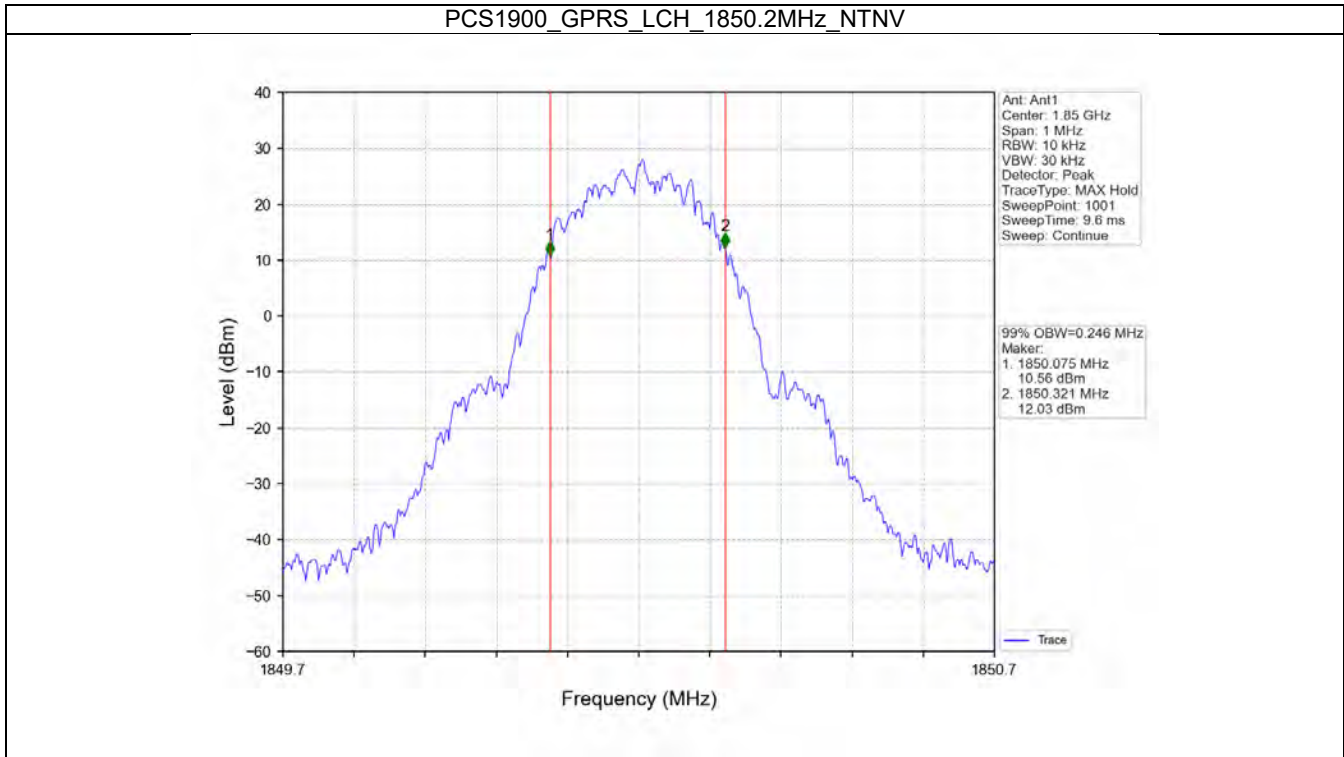
2.1 PCS1900_OBW

2.1.1 Test Result

Band: PCS1900							
ENV	Mode		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	GPRS	/	0.246	0.246	0.240	/	Pass
	EGPRS	/	0.240	0.234	0.242	/	Pass



VERITAS
2.1.2 Test Graph



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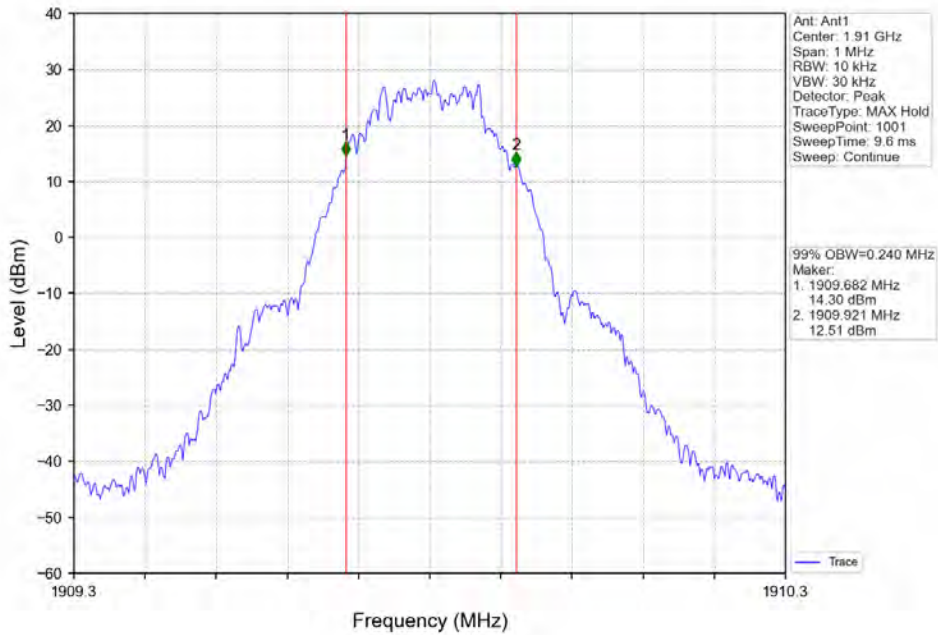
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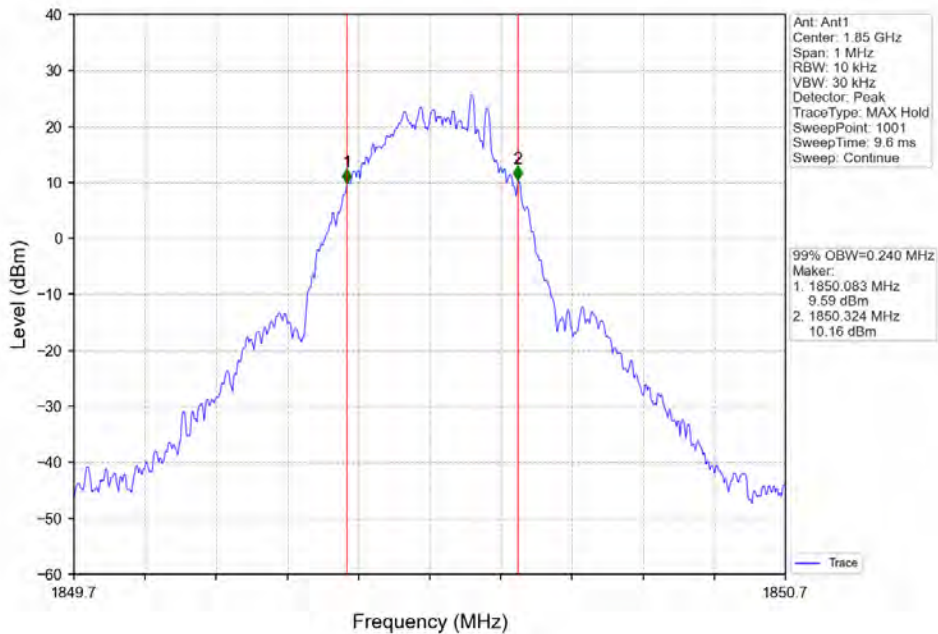
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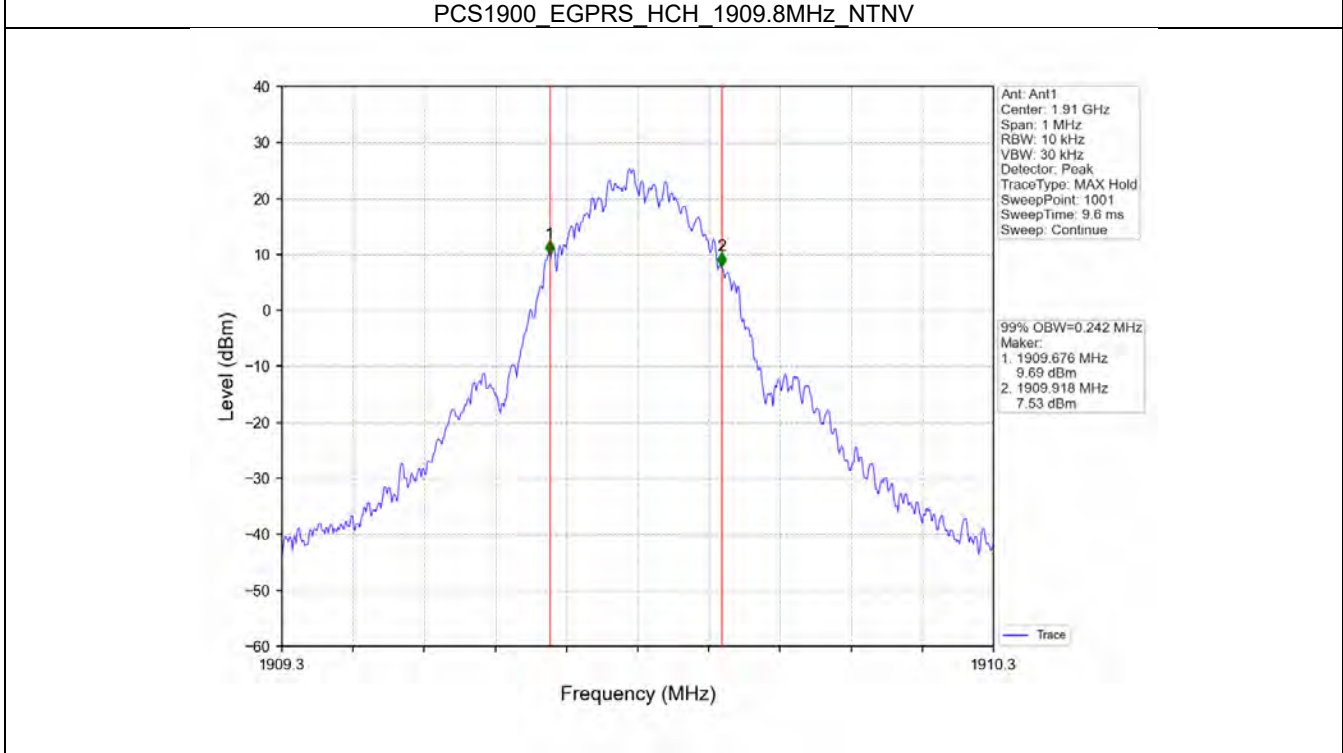
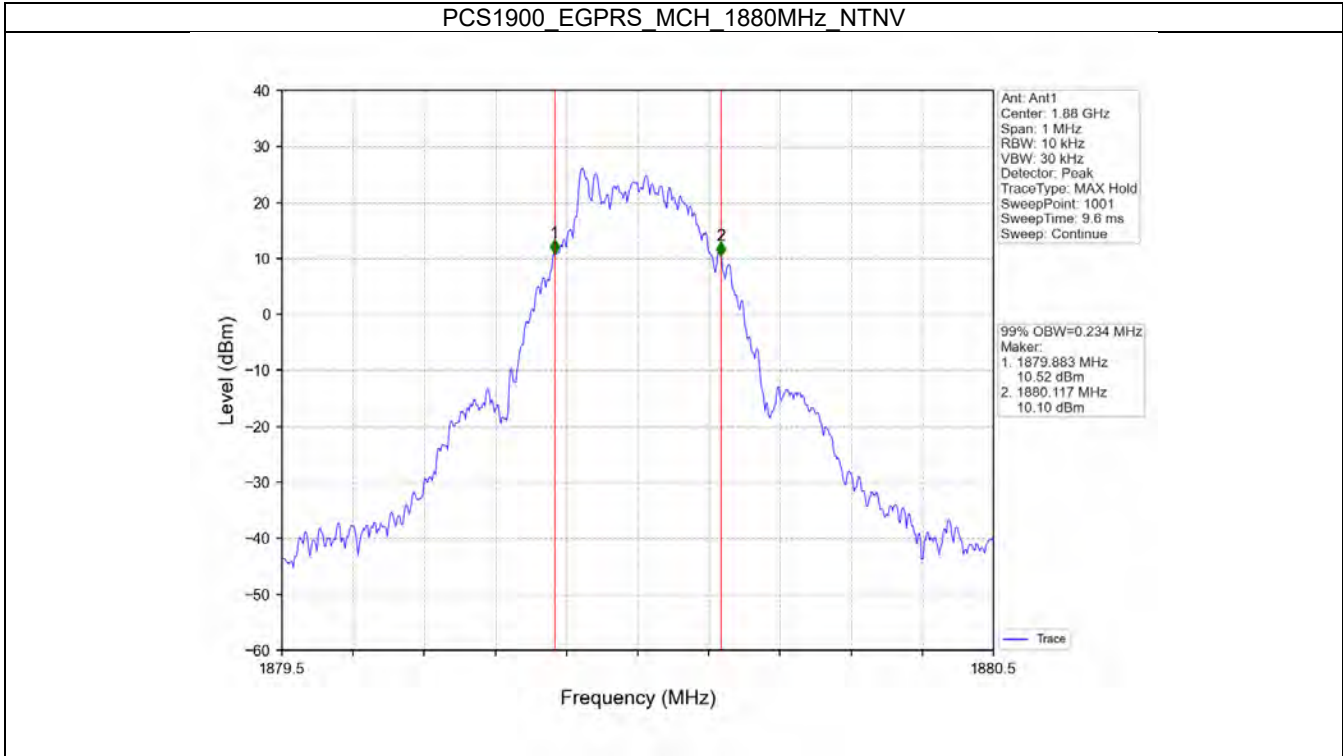


PCS1900_GPRS_HCH_1909.8MHz_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_NTNV







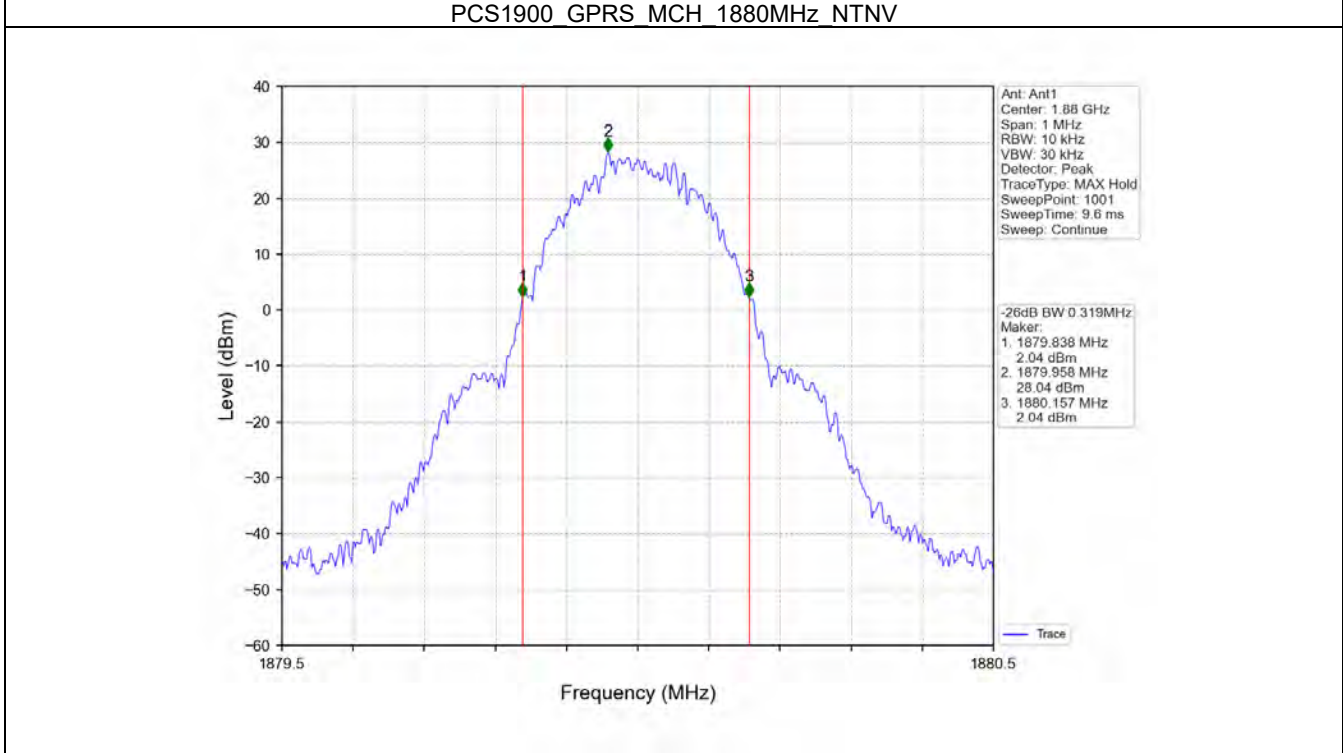
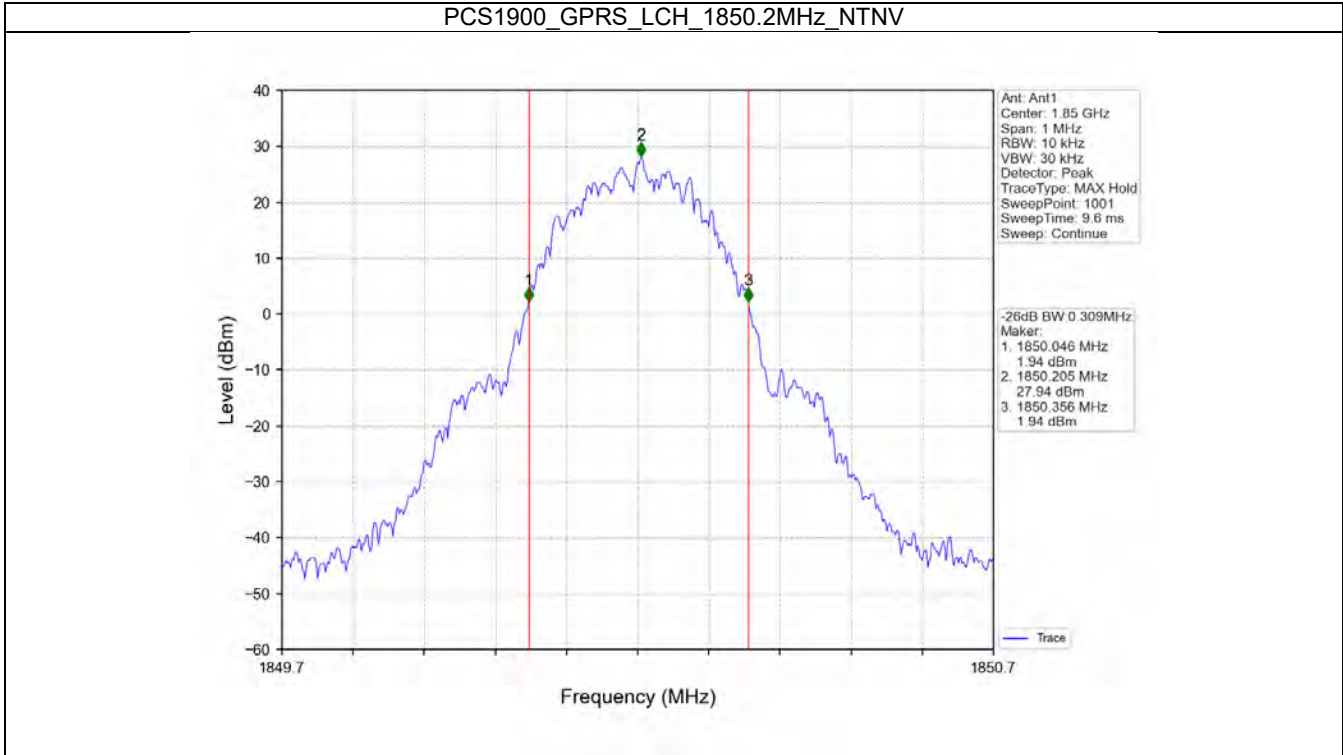
2.2 PCS1900 26DB

2.2.1 Test Result

Band: PCS1900							
ENV	Mode		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	GPRS	/	0.309	0.319	0.310	/	Pass
	EGPRS	/	0.296	0.300	0.298	/	Pass



2.2.2 Test Graph



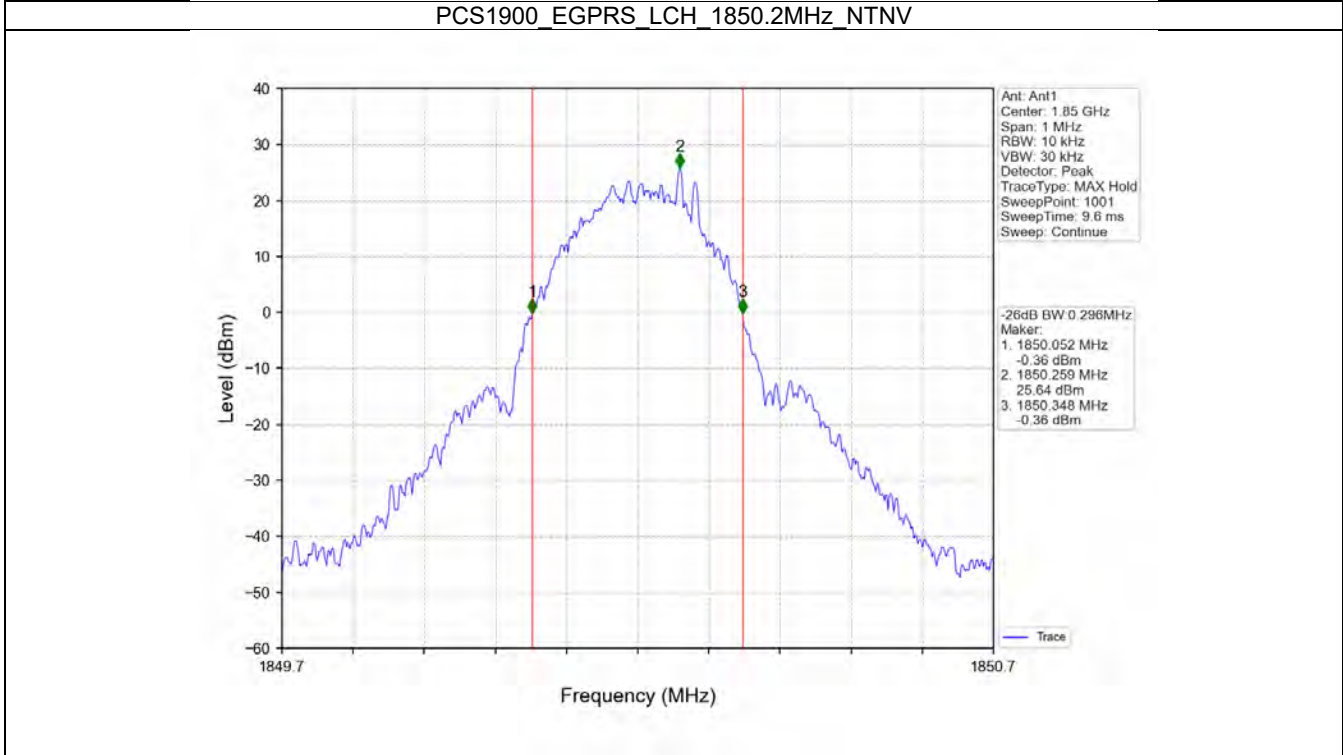
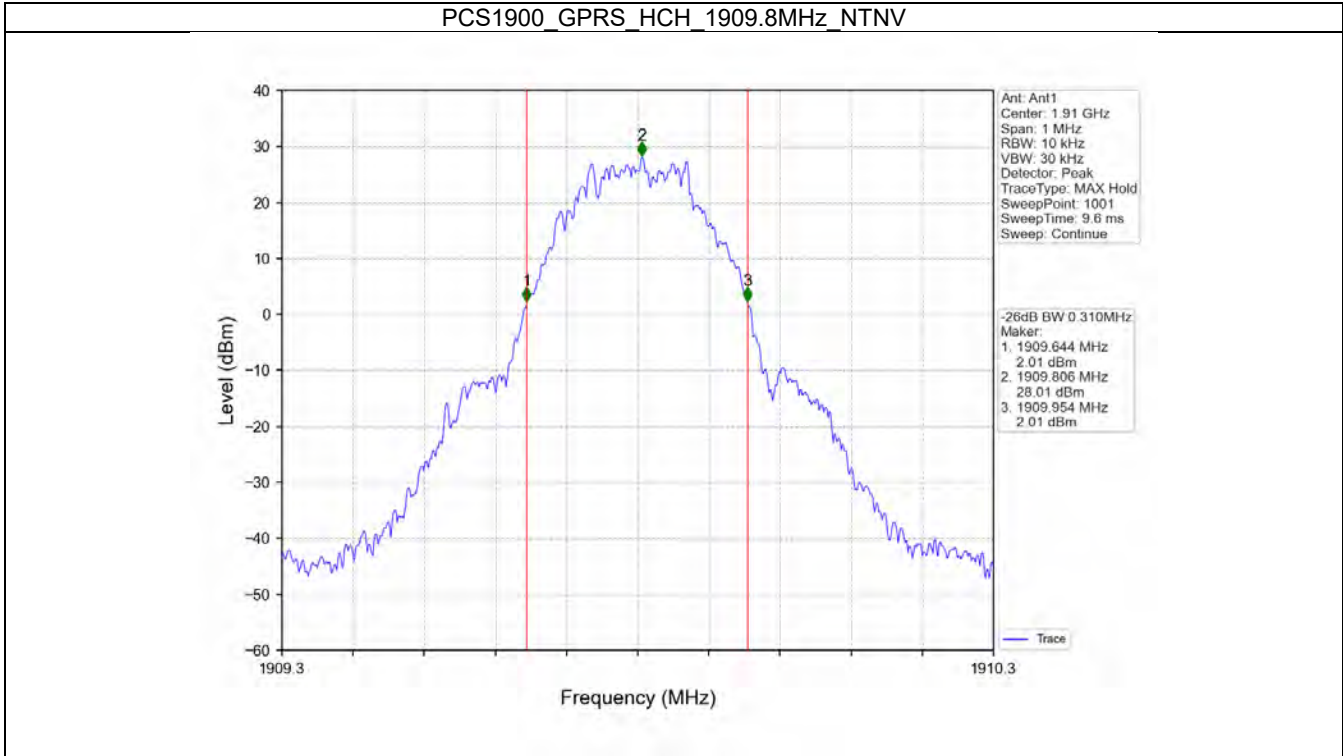
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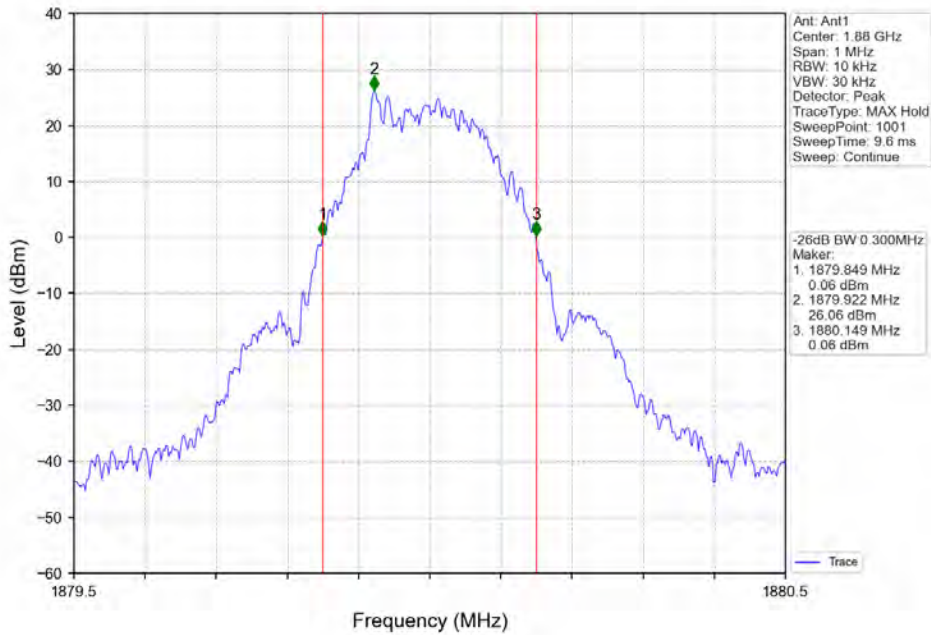
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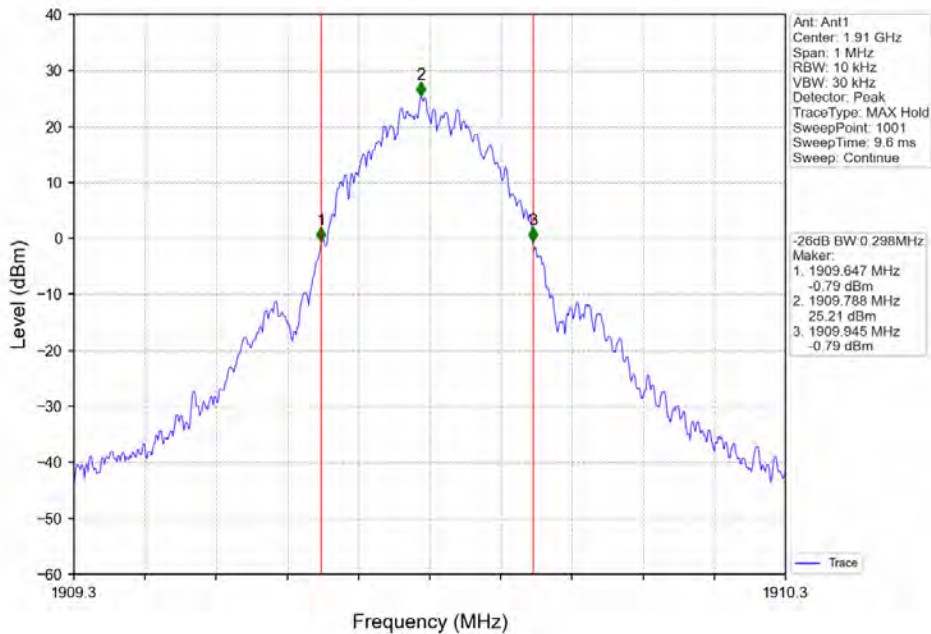
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PCS1900 EGPRS MCH 1880MHz NTN



PCS1900 EGPRS HCH 1909.8MHz NTN



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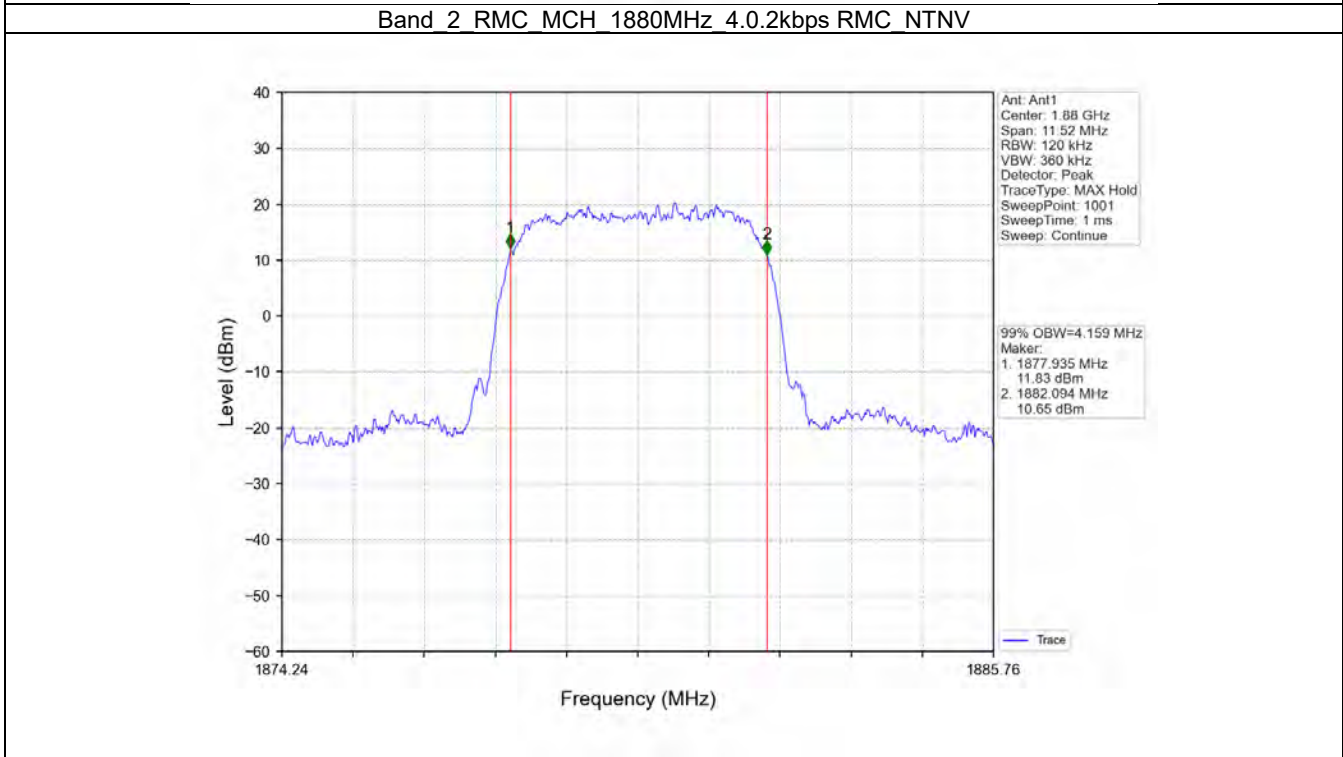
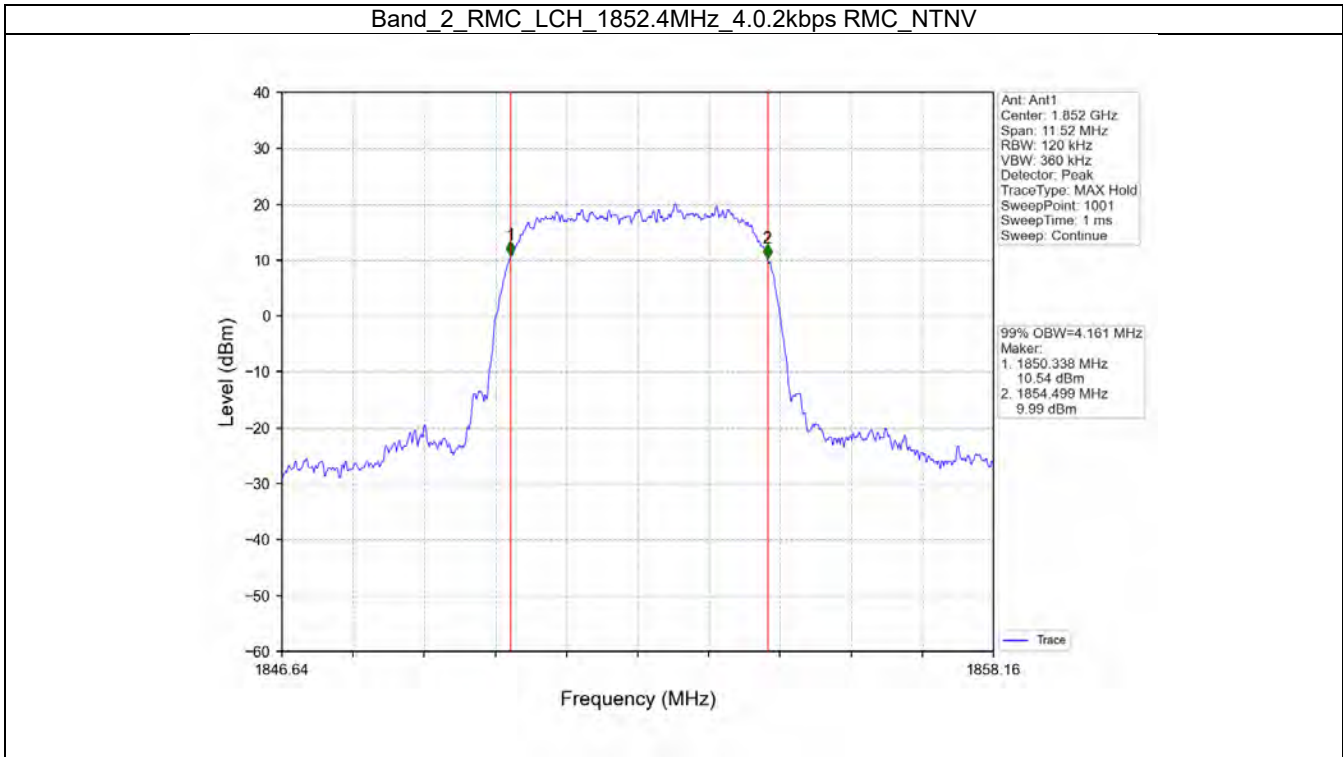
2.3 WCDMA Band2 OBW

2.3.1 Test Result

ENV	Mode		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	RMC	4.0.2kbps RMC	4.161	4.159	4.151	/	Pass



2.3.2 Test Graph



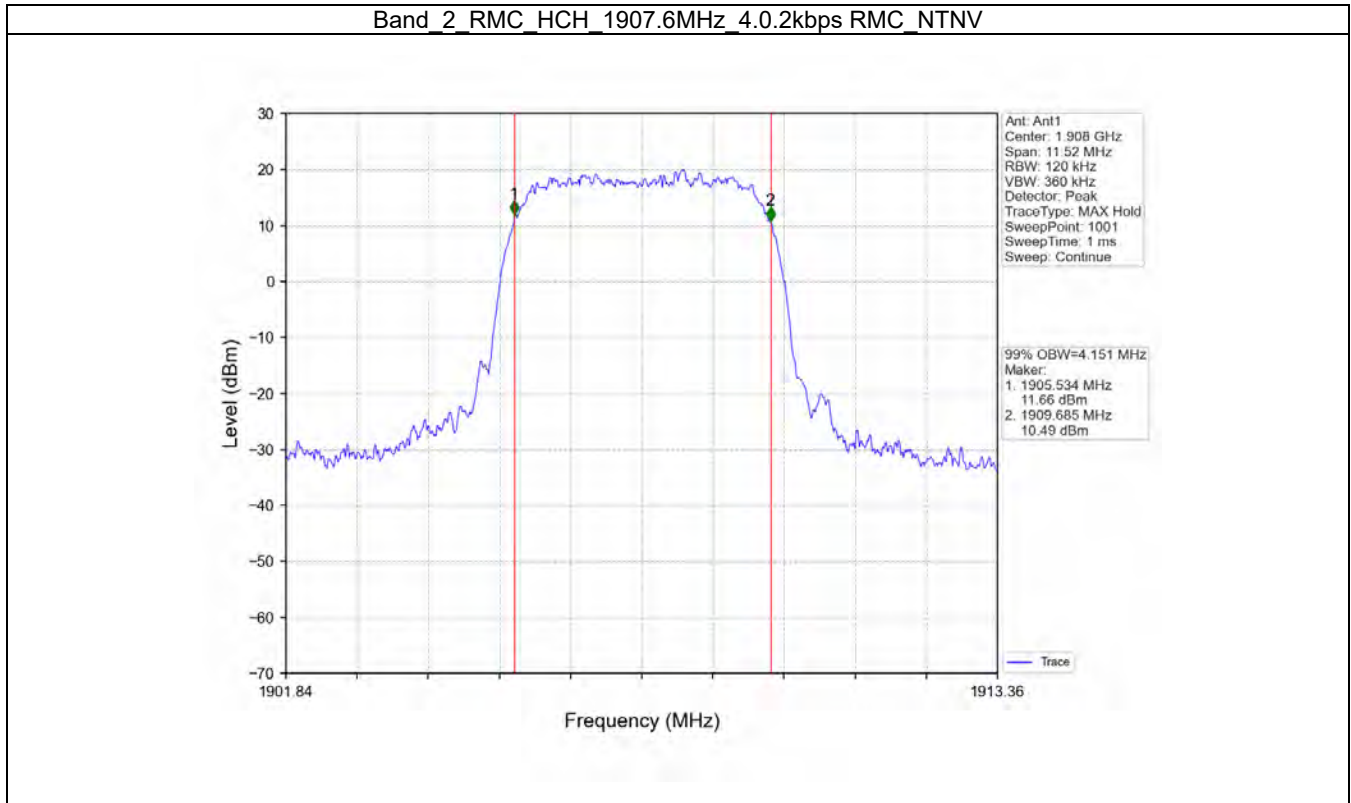
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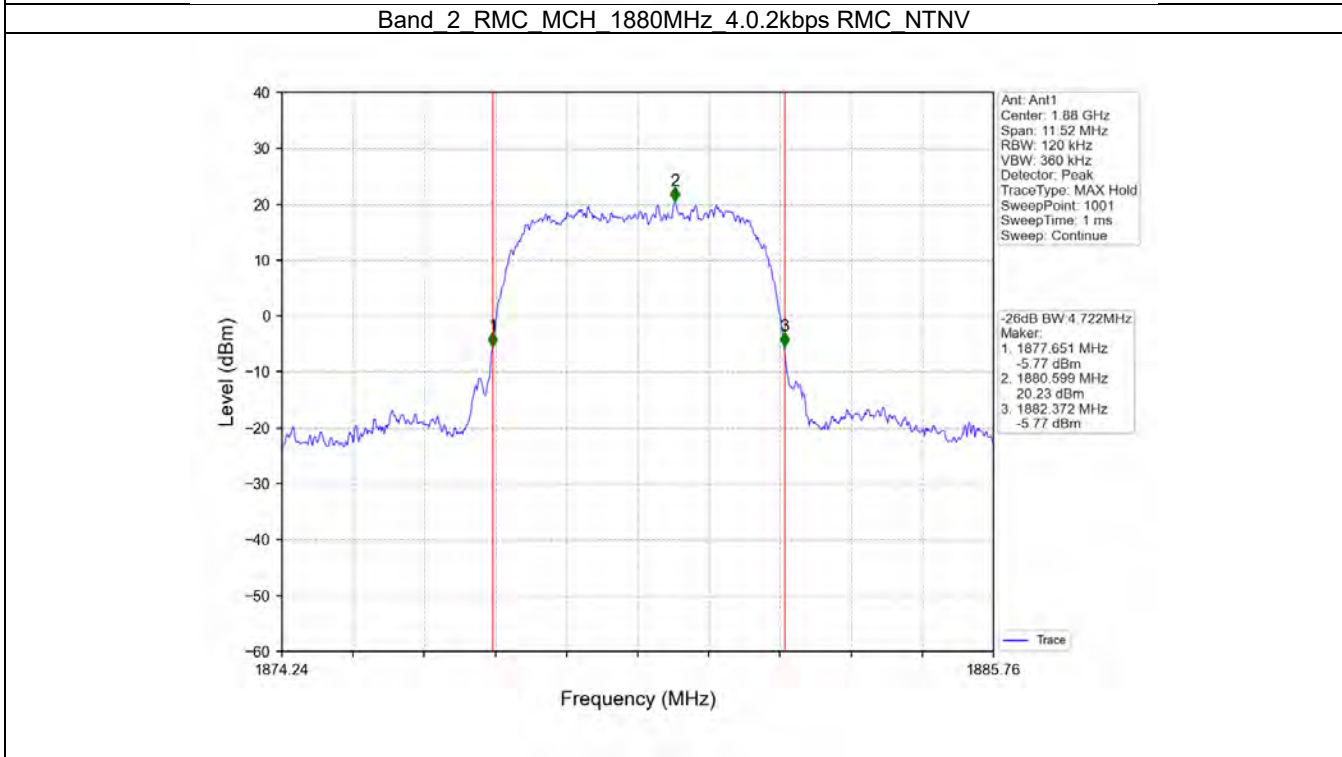
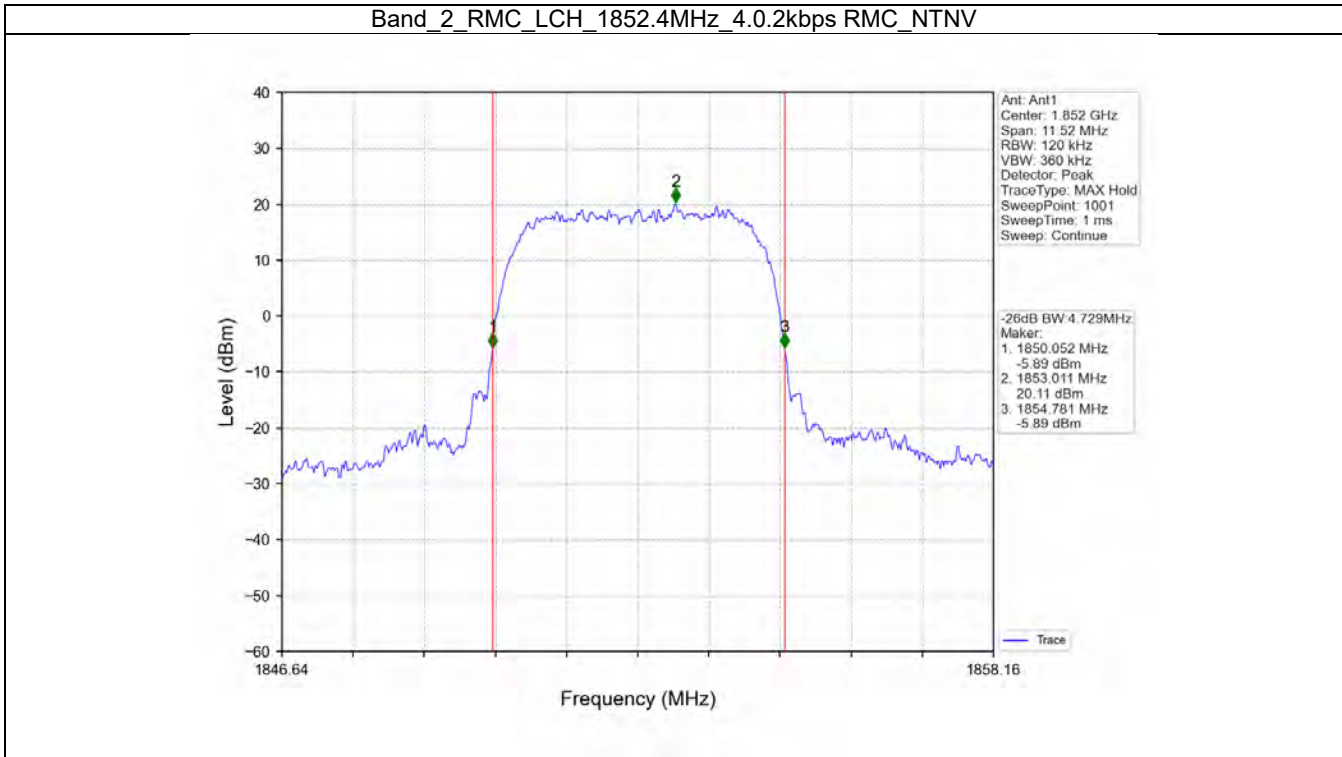
2.4 WCDMA Band2 26DB

2.4.1 Test Result

ENV	Mode		Band: 2 26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	RMC	4.0.2kbps RMC	4.729	4.722	4.747	/	Pass



2.4.2 Test Graph



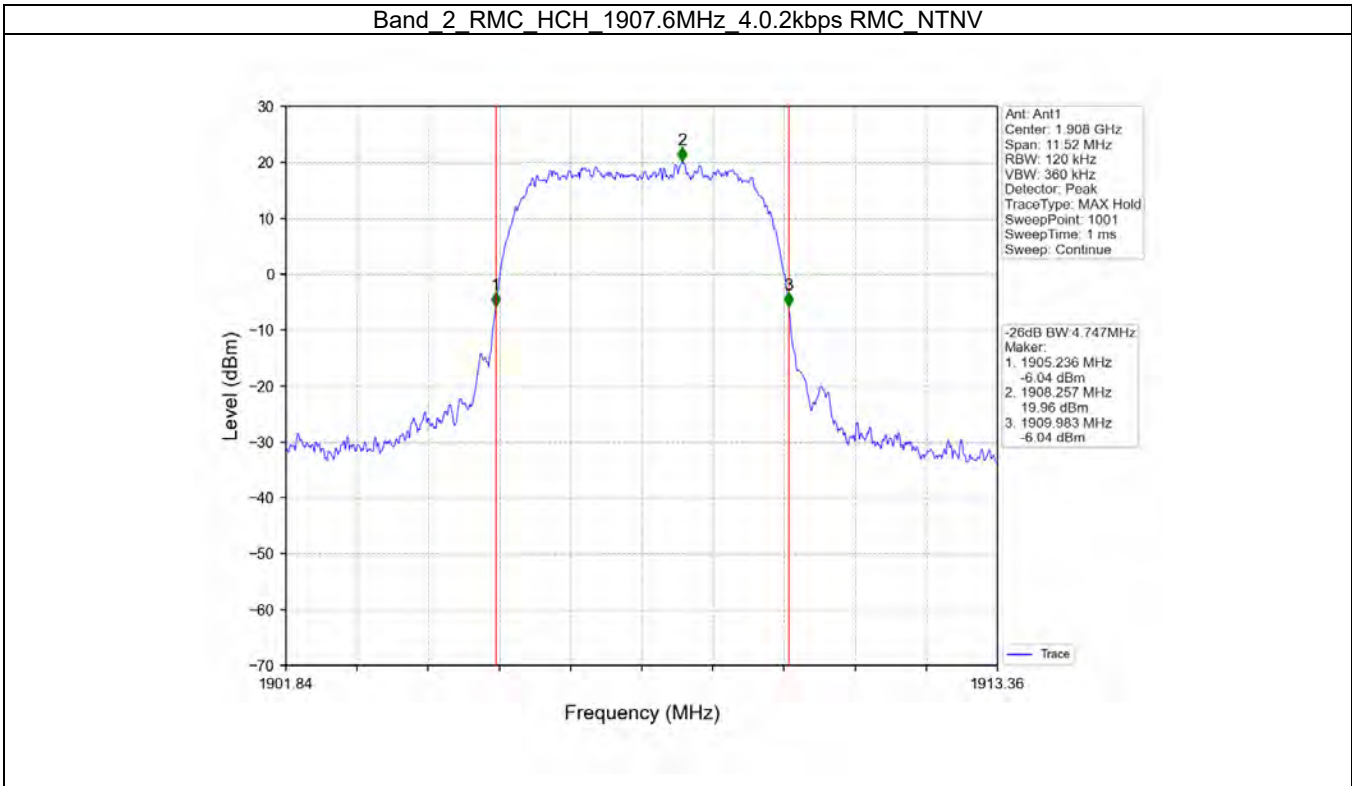
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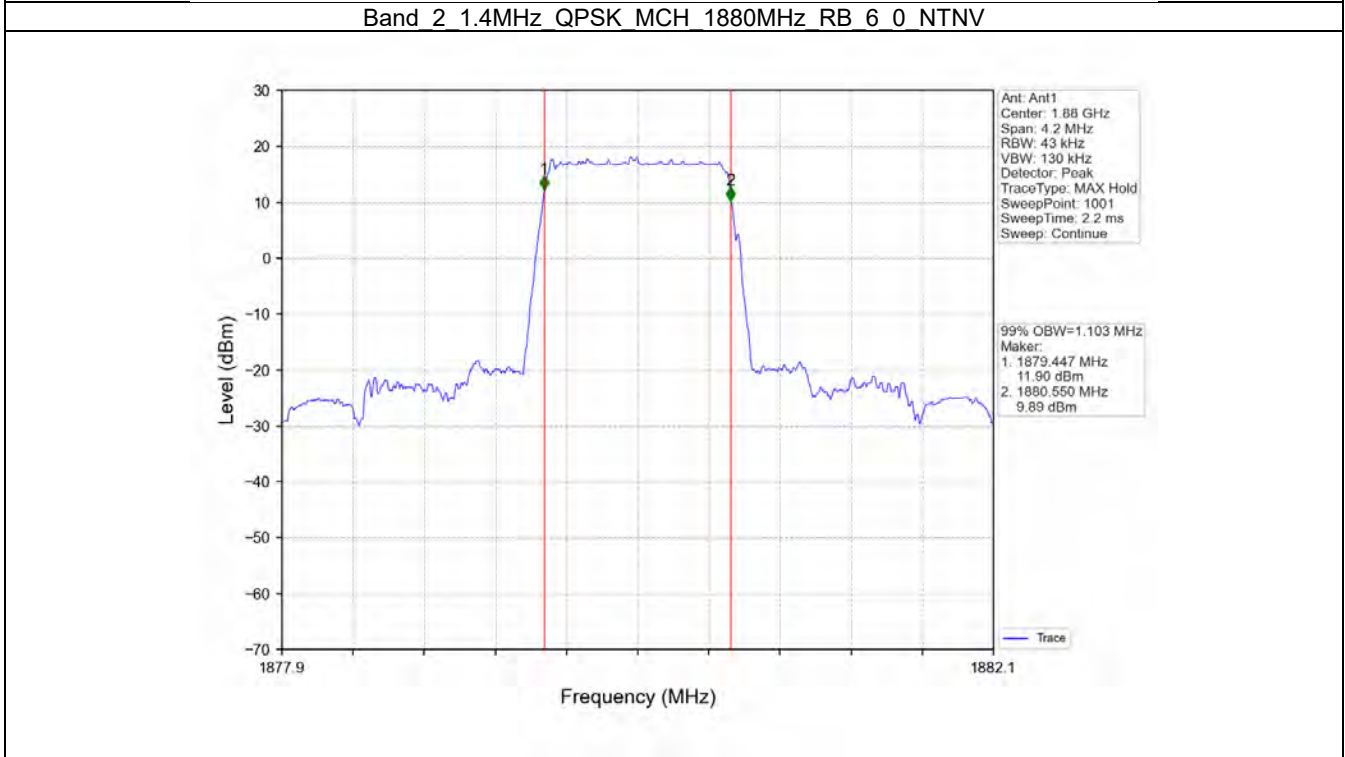
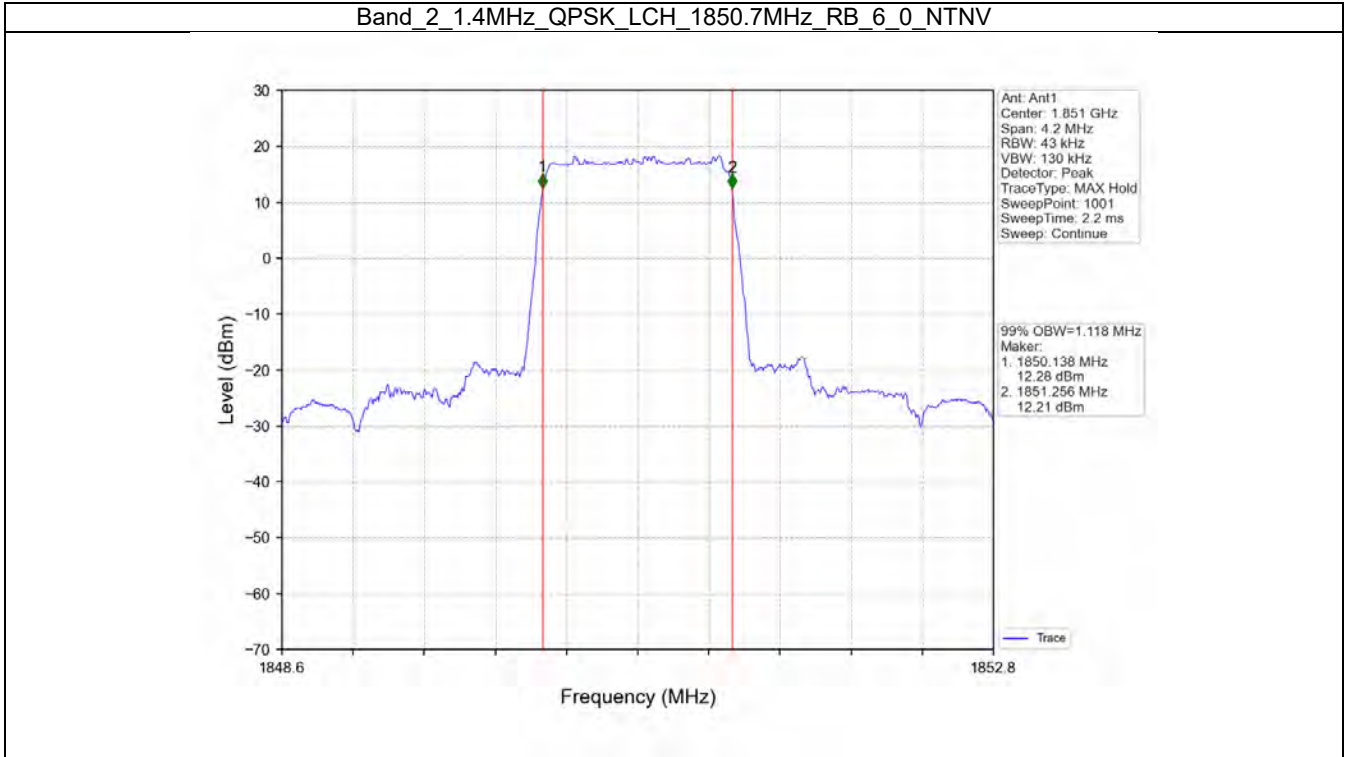
2.5 LTE Band 2 OBW

2.5.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.118	1.103	1.106	/	Pass
16QAM	6	0	1.106	1.104	1.107	/	Pass
64QAM	6	0	1.109	1.104	1.106	/	Pass
Band: 2 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.744	2.748	2.745	/	Pass
16QAM	15	0	2.752	2.743	2.736	/	Pass
64QAM	15	0	2.742	2.748	2.745	/	Pass
Band: 2 / Bandwidth: 5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.556	4.544	4.536	/	Pass
16QAM	25	0	4.528	4.569	4.570	/	Pass
64QAM	25	0	4.569	4.553	4.534	/	Pass
Band: 2 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.041	9.048	9.028	/	Pass
16QAM	50	0	9.051	9.055	9.033	/	Pass
64QAM	50	0	9.036	9.030	9.025	/	Pass
Band: 2 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.568	13.582	13.552	/	Pass
16QAM	75	0	13.566	13.616	13.592	/	Pass
64QAM	75	0	13.554	13.615	13.605	/	Pass
Band: 2 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.031	18.104	18.056	/	Pass
16QAM	100	0	18.138	18.089	18.083	/	Pass



2.5.2 Test Graph



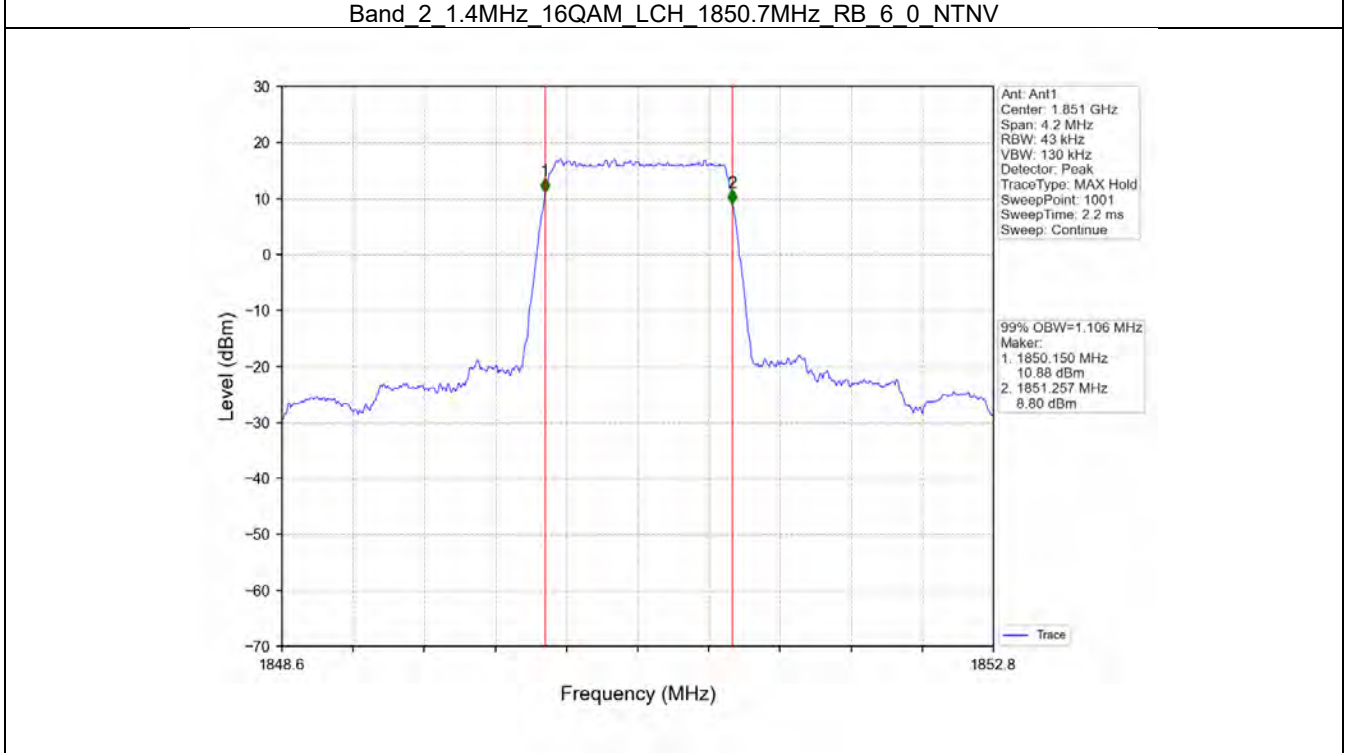
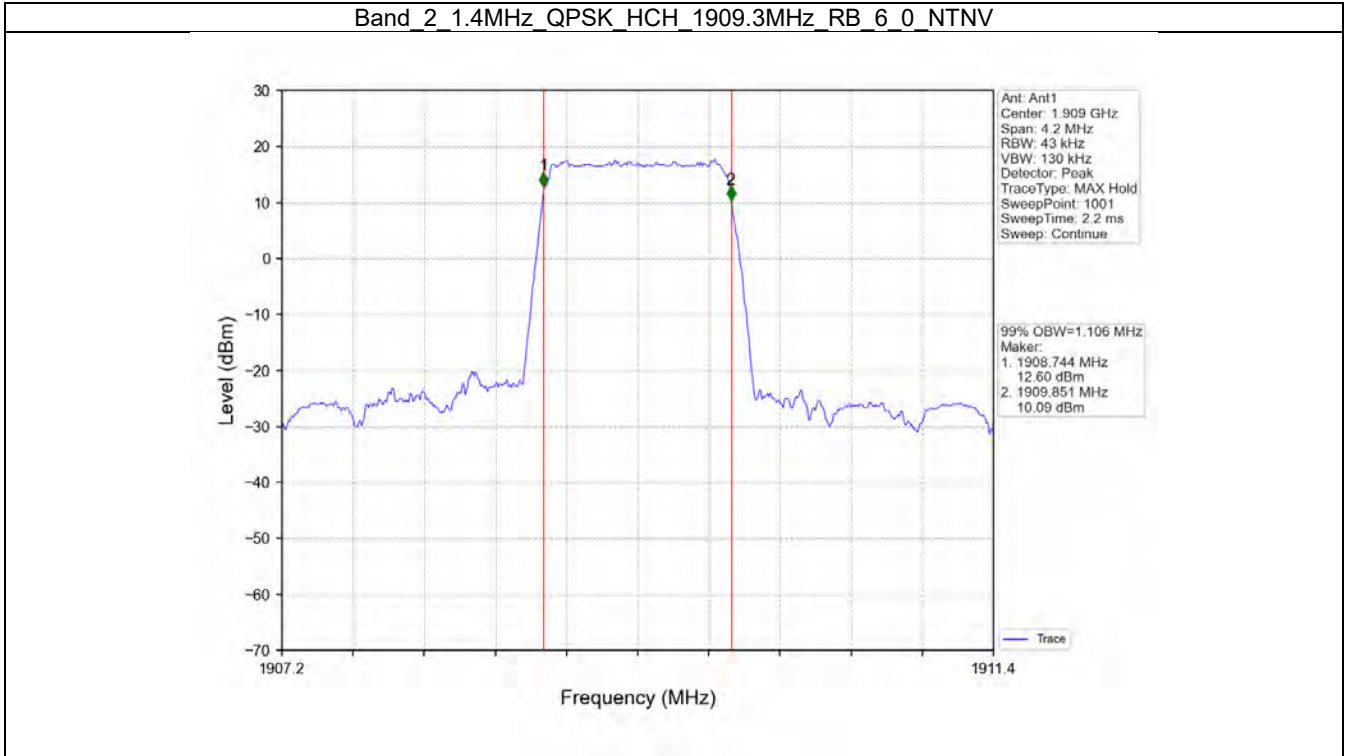
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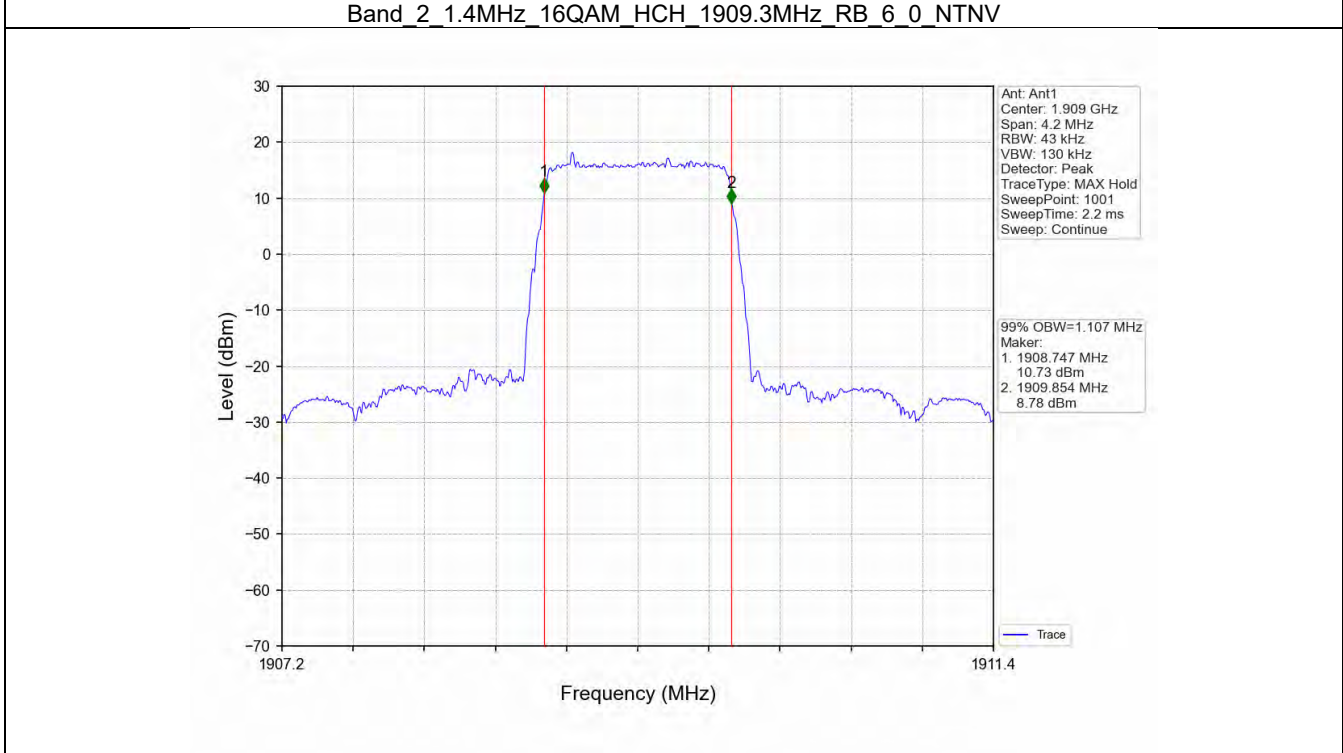
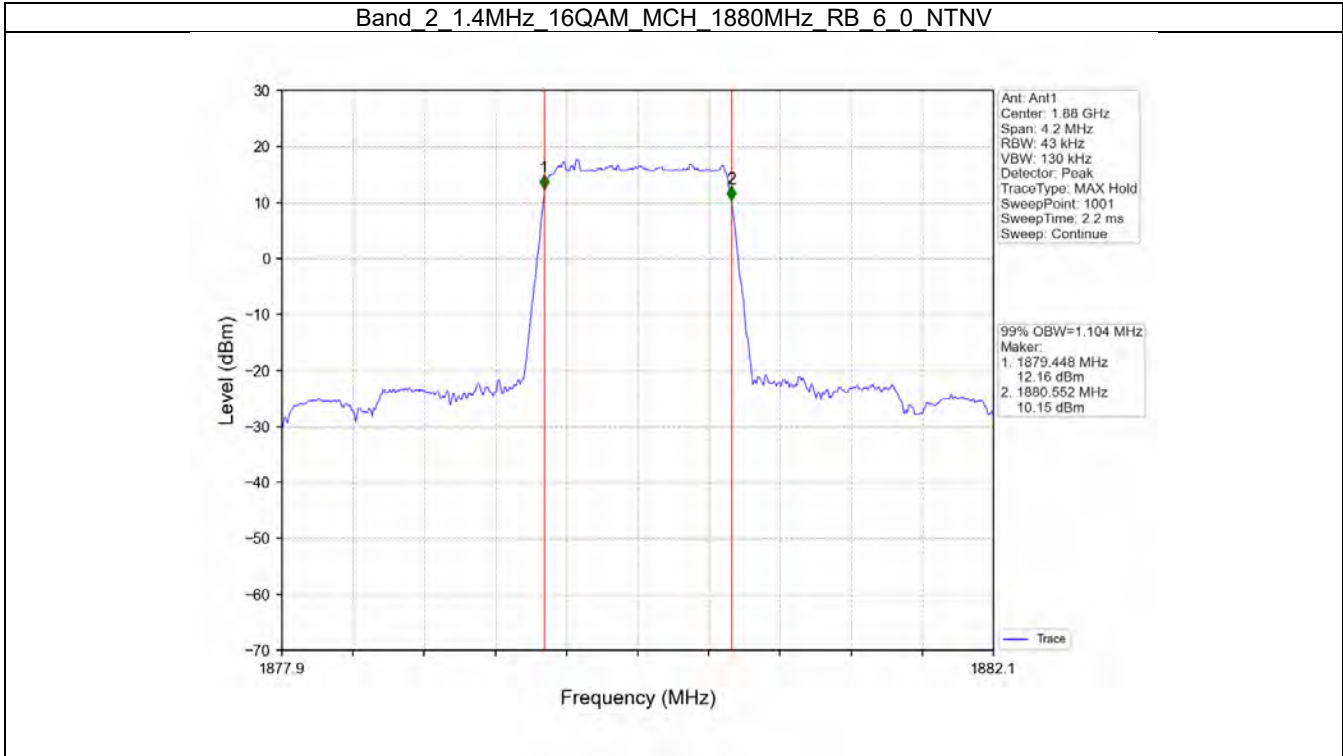
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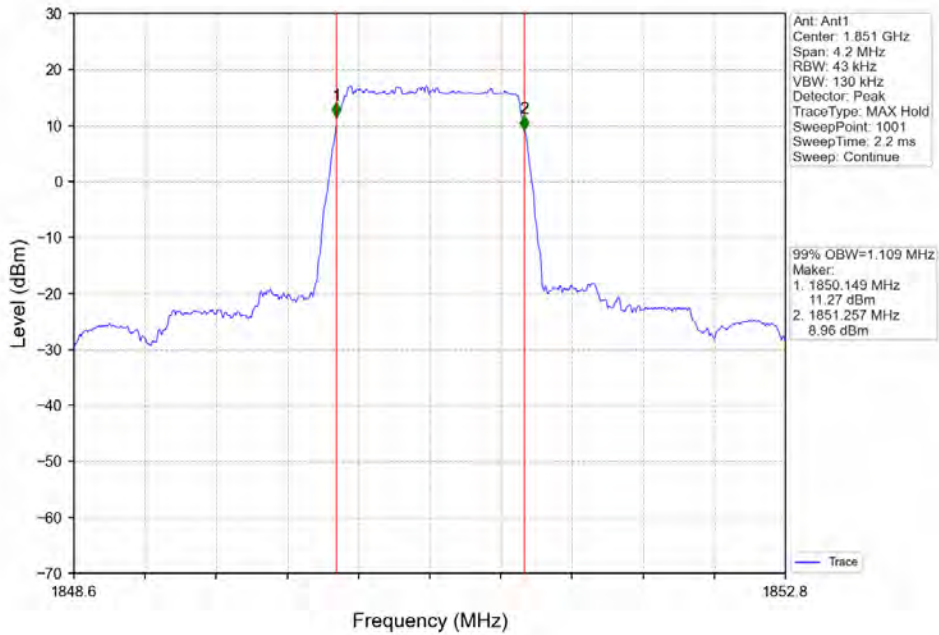
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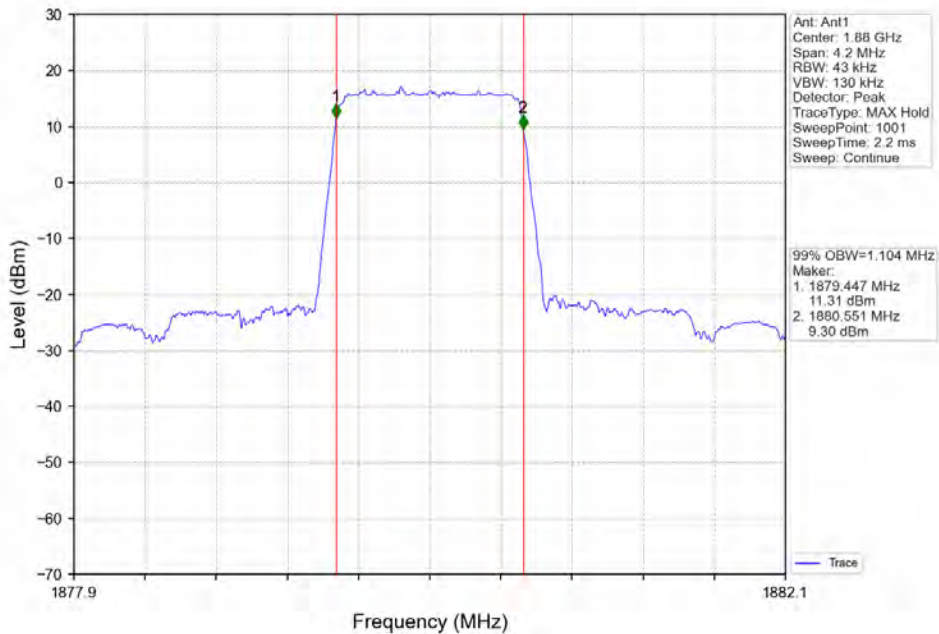
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Band 2 1.4MHz 64QAM LCH 1850.7MHz RB 6 0 NTN



Band 2 1.4MHz 64QAM MCH 1880MHz RB 6 0 NTN



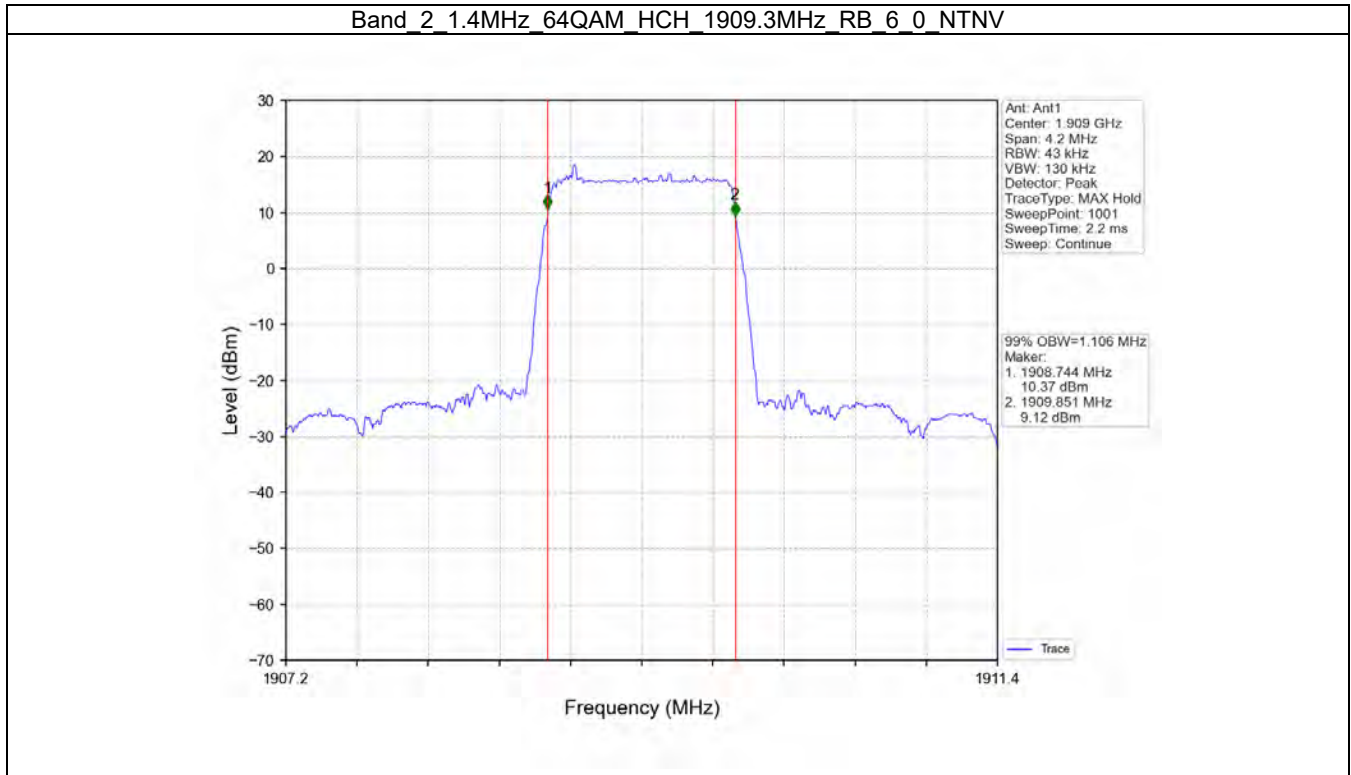
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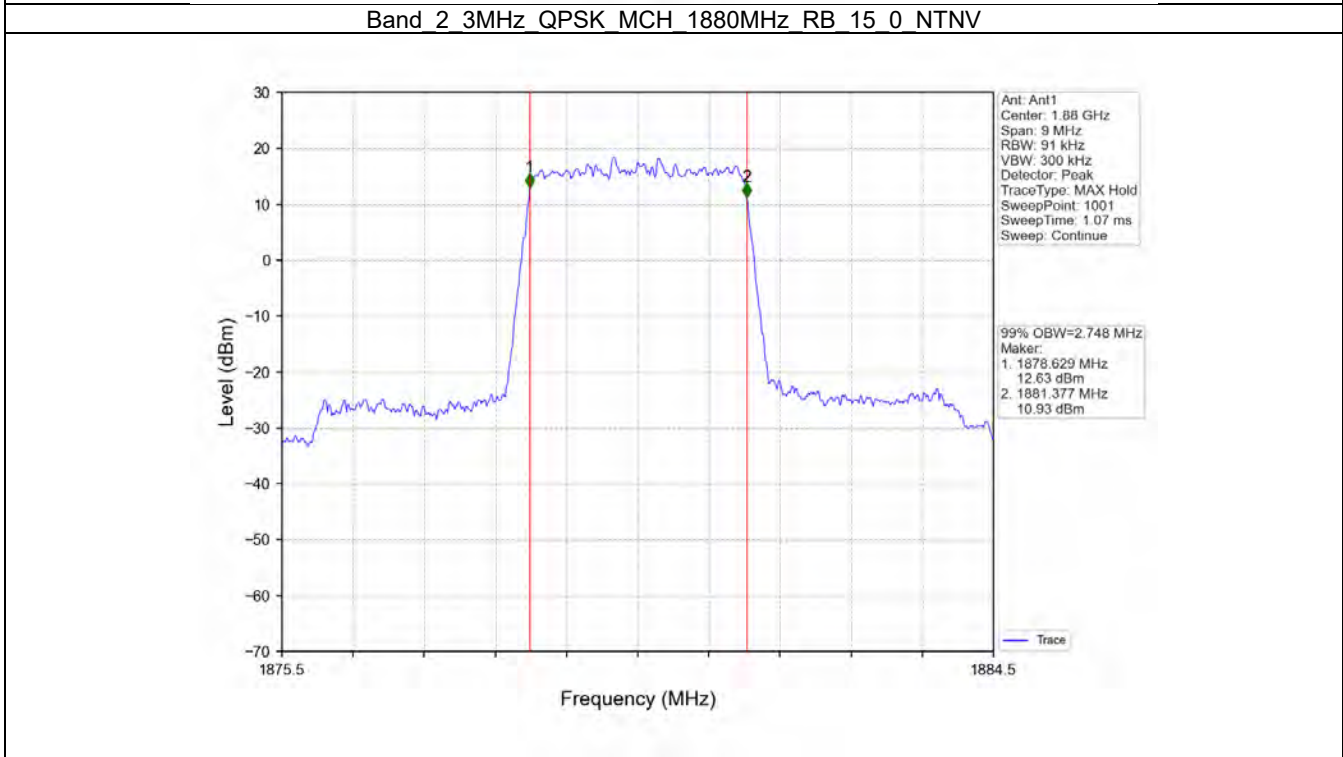
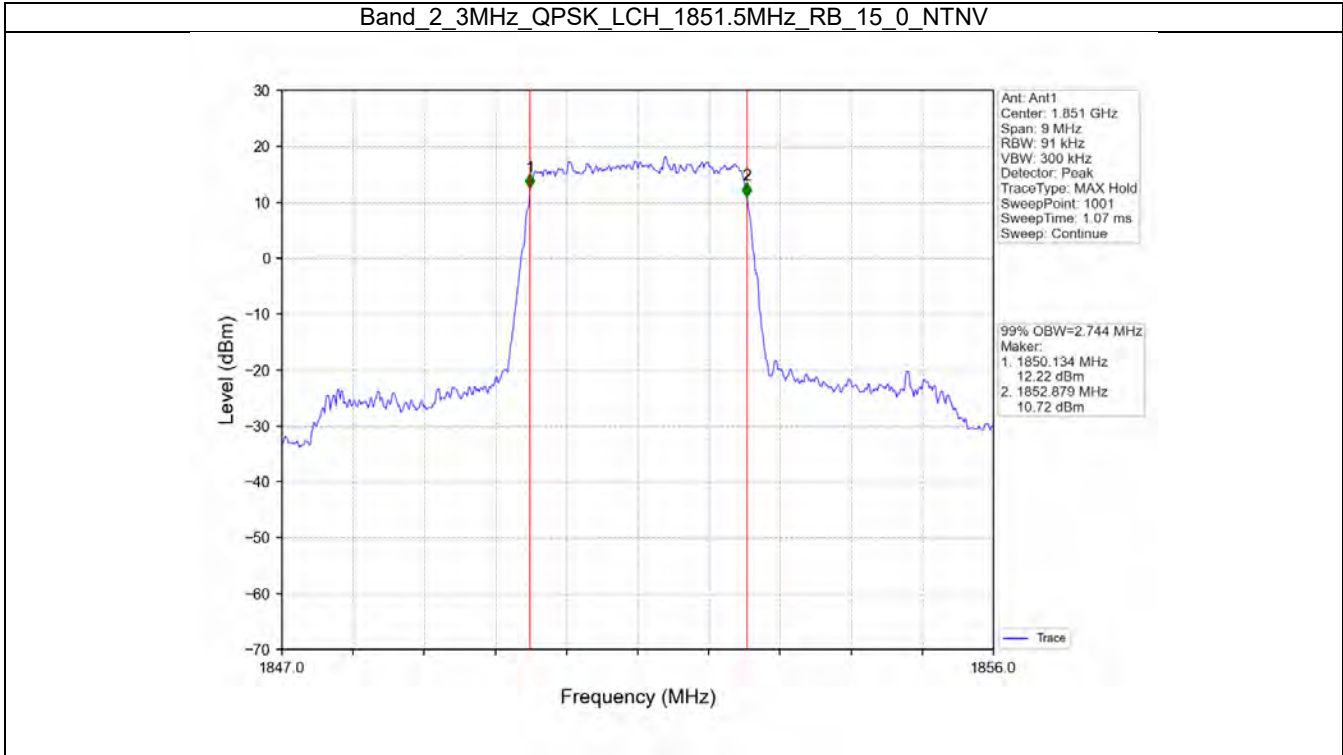
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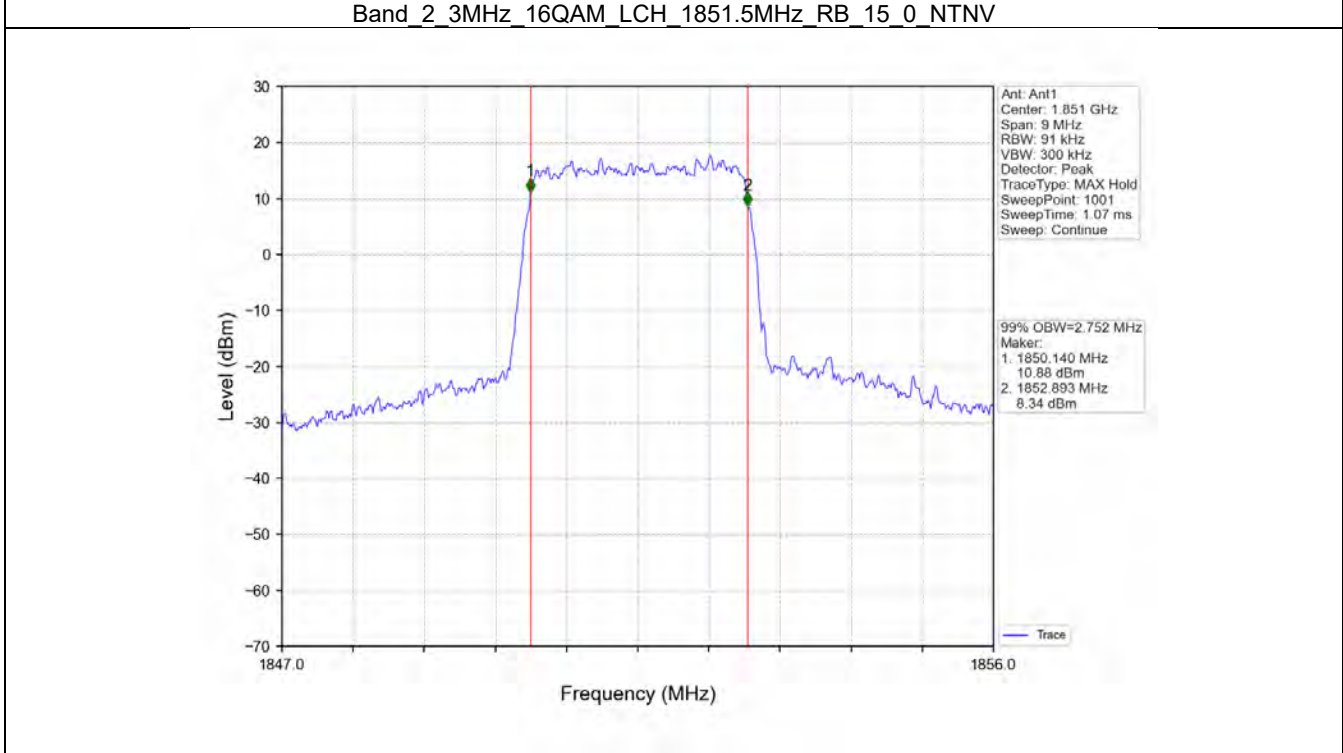
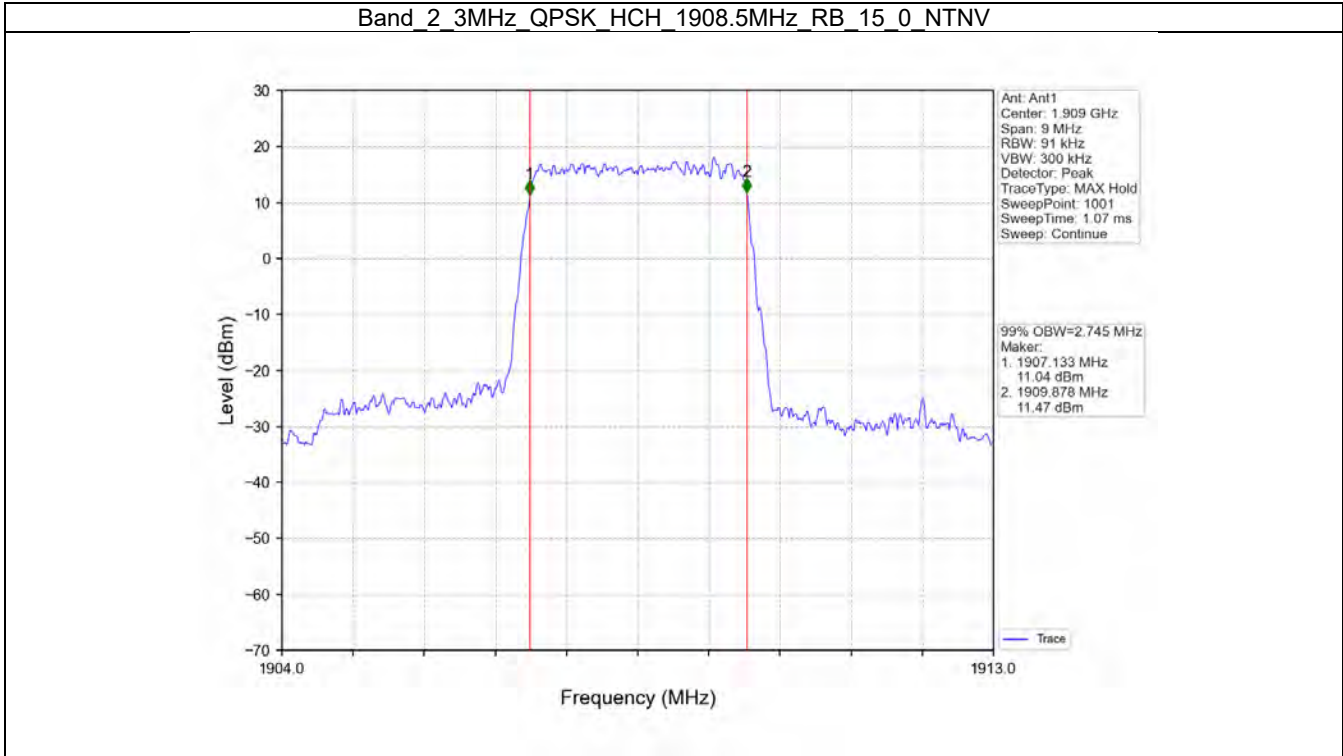
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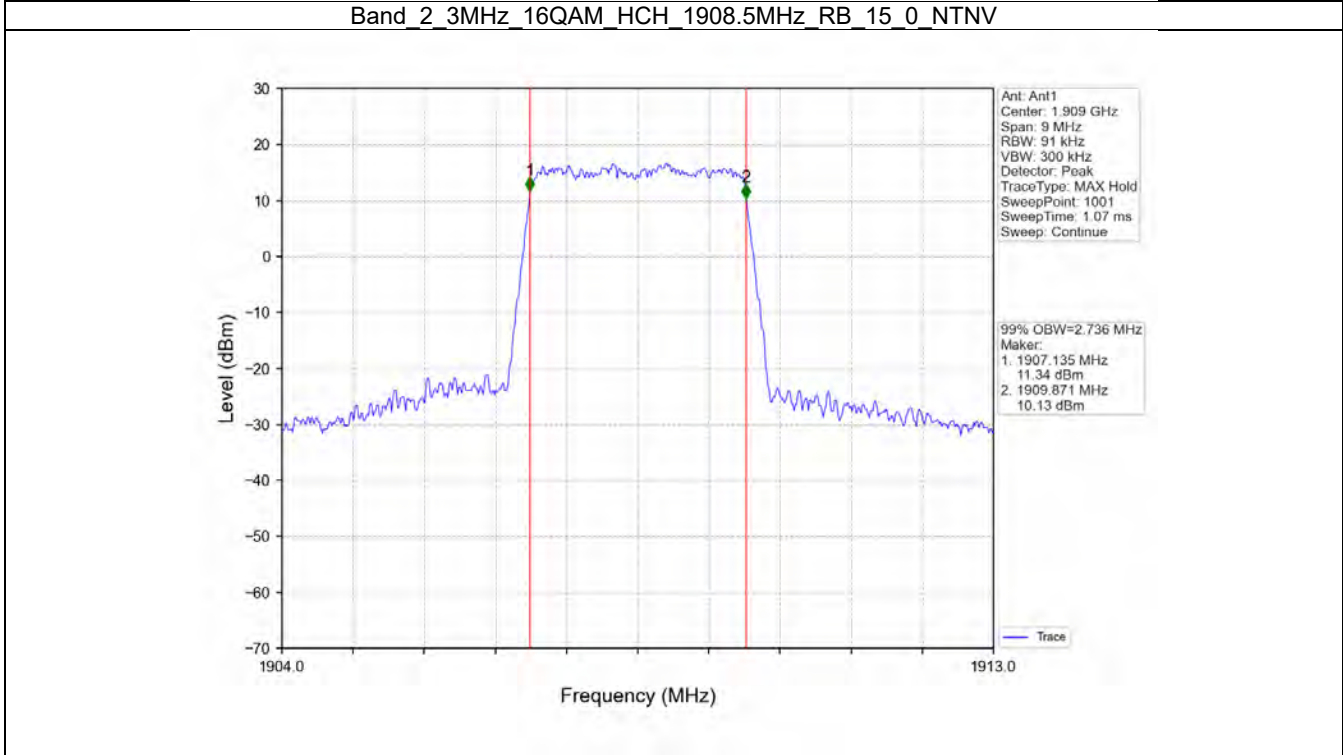
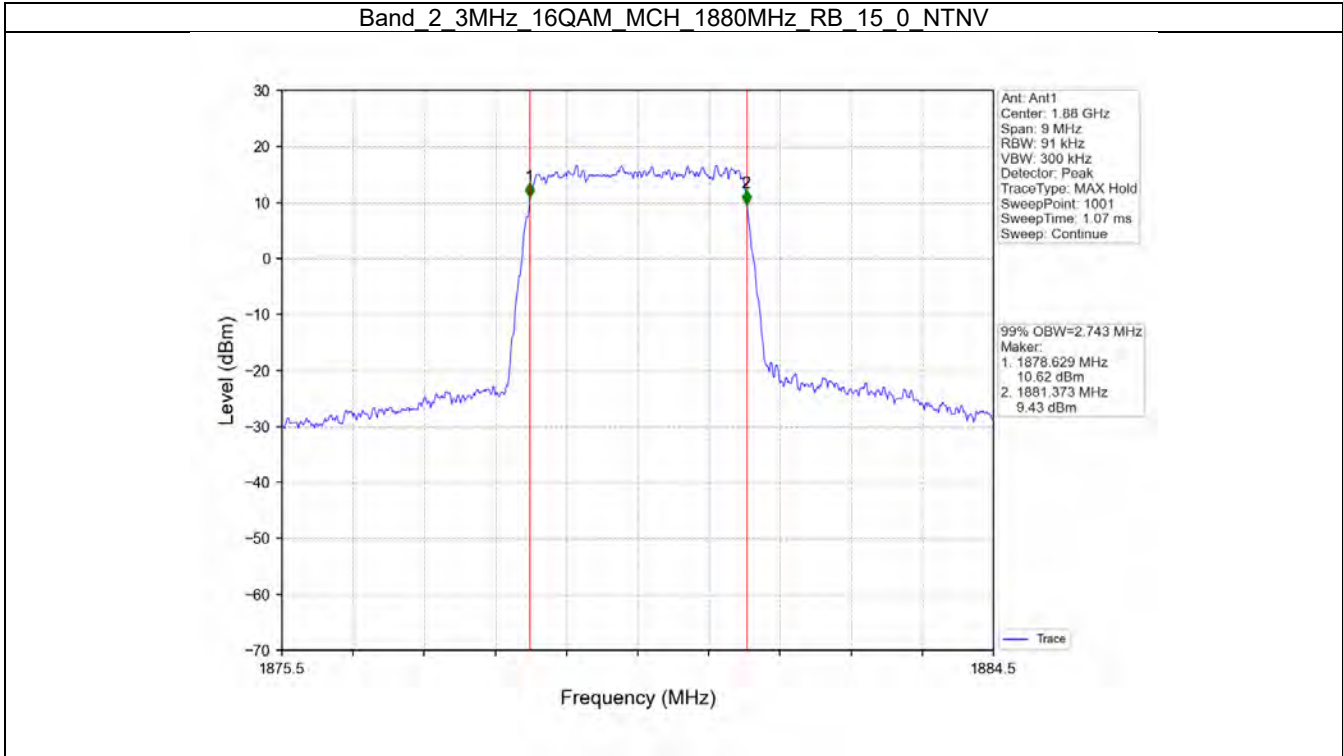
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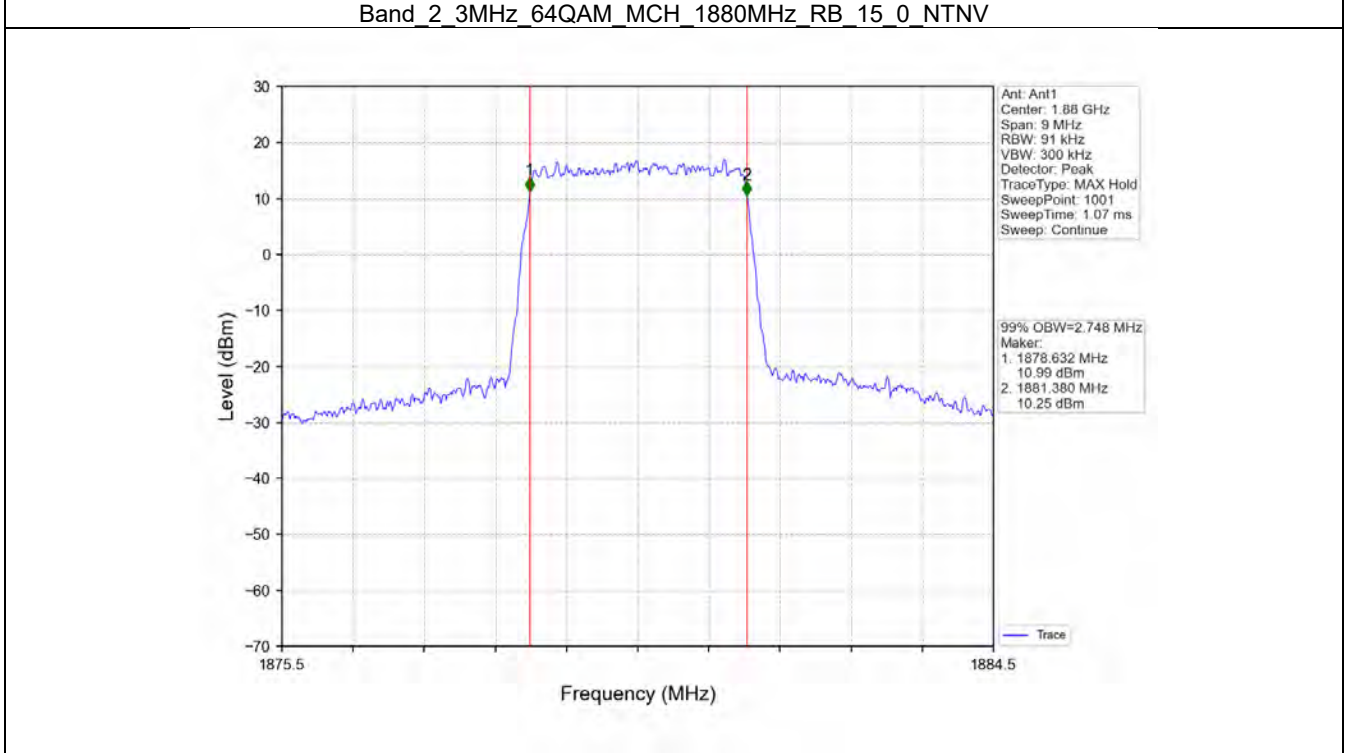
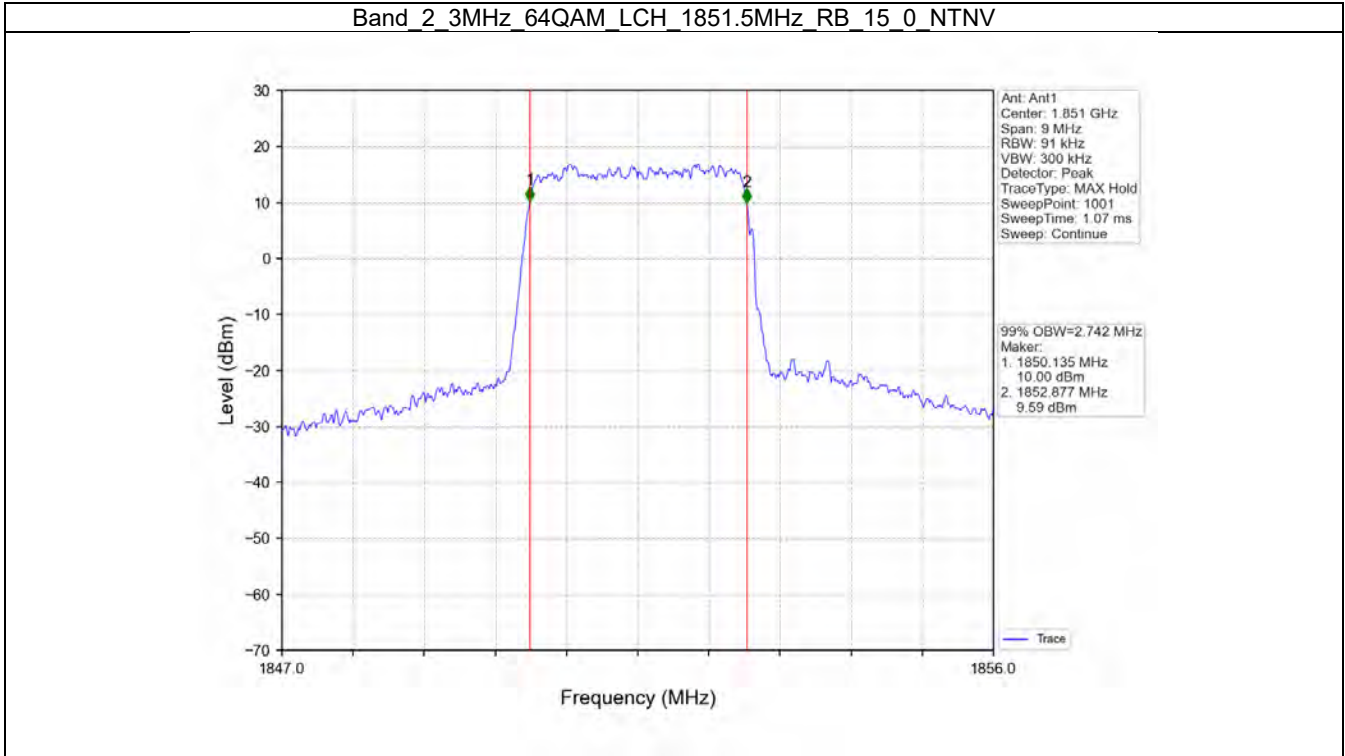
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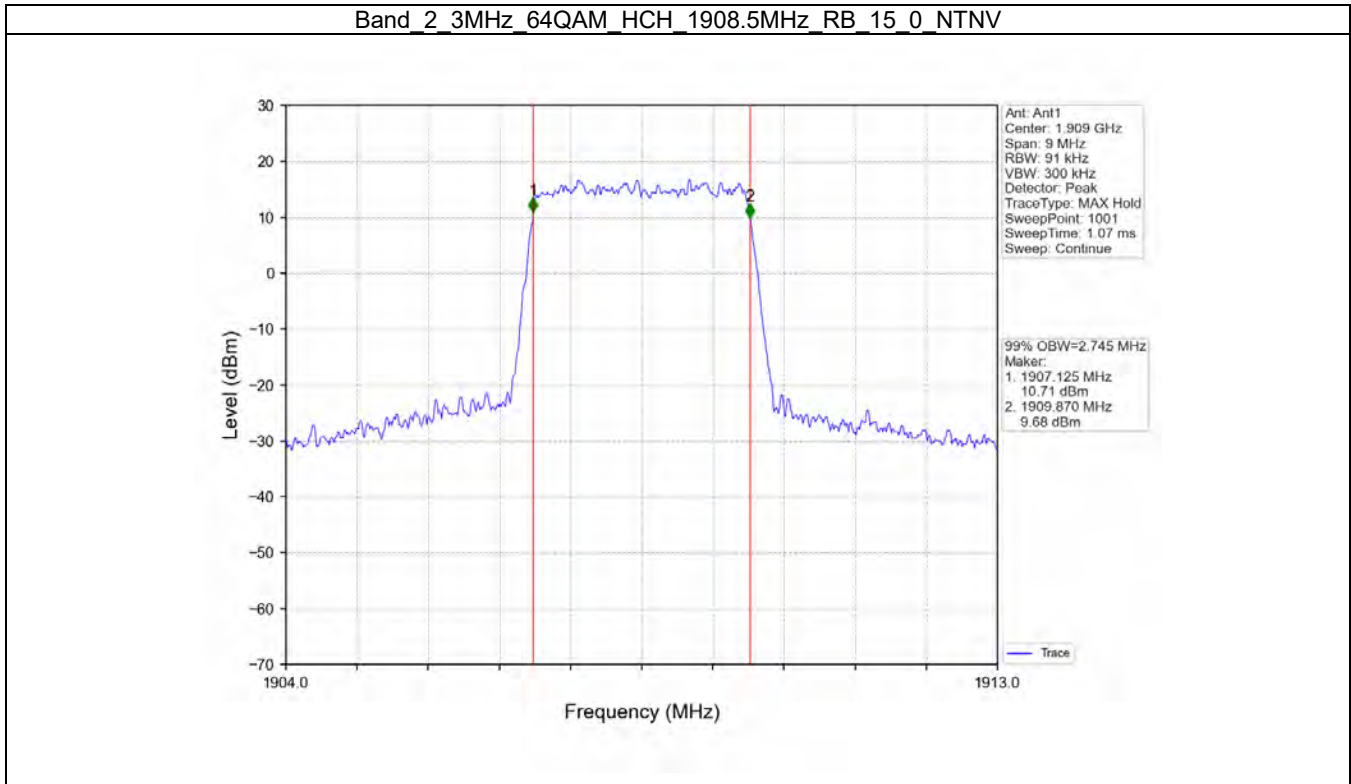
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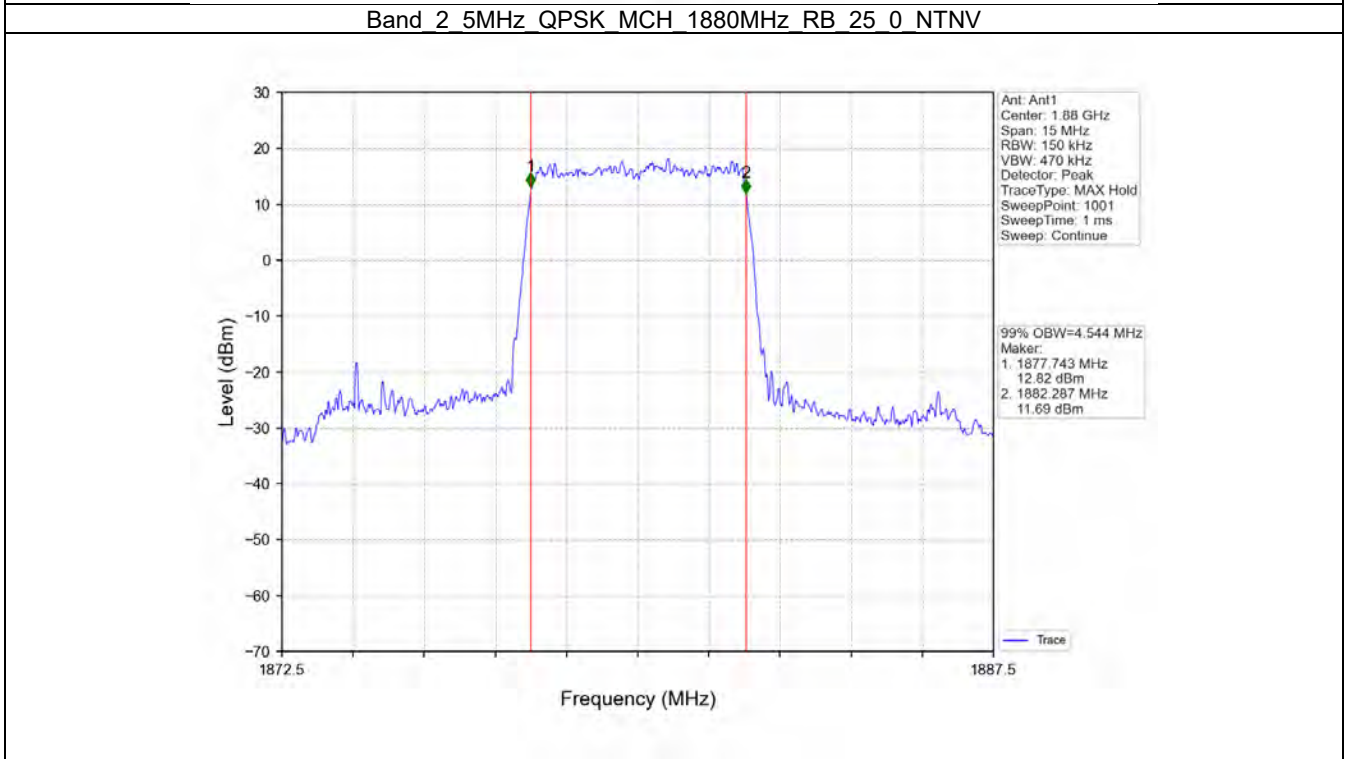
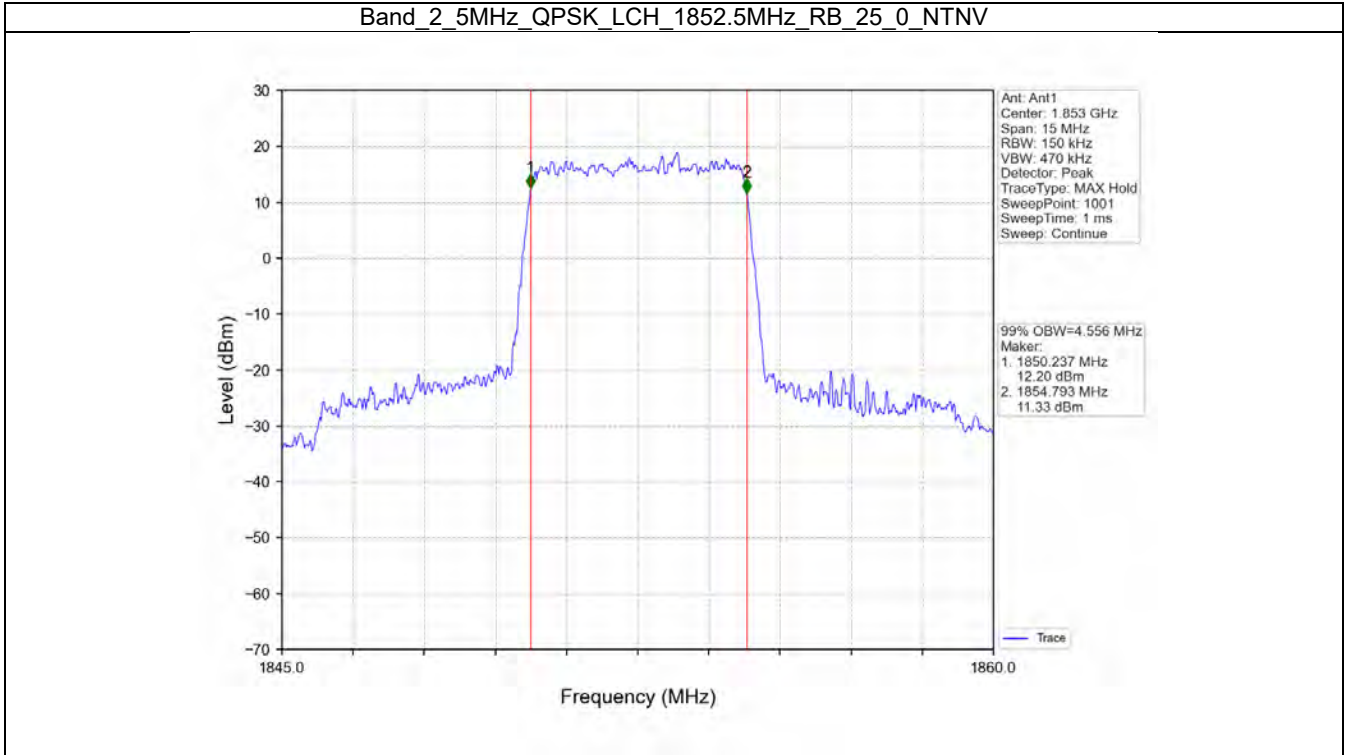
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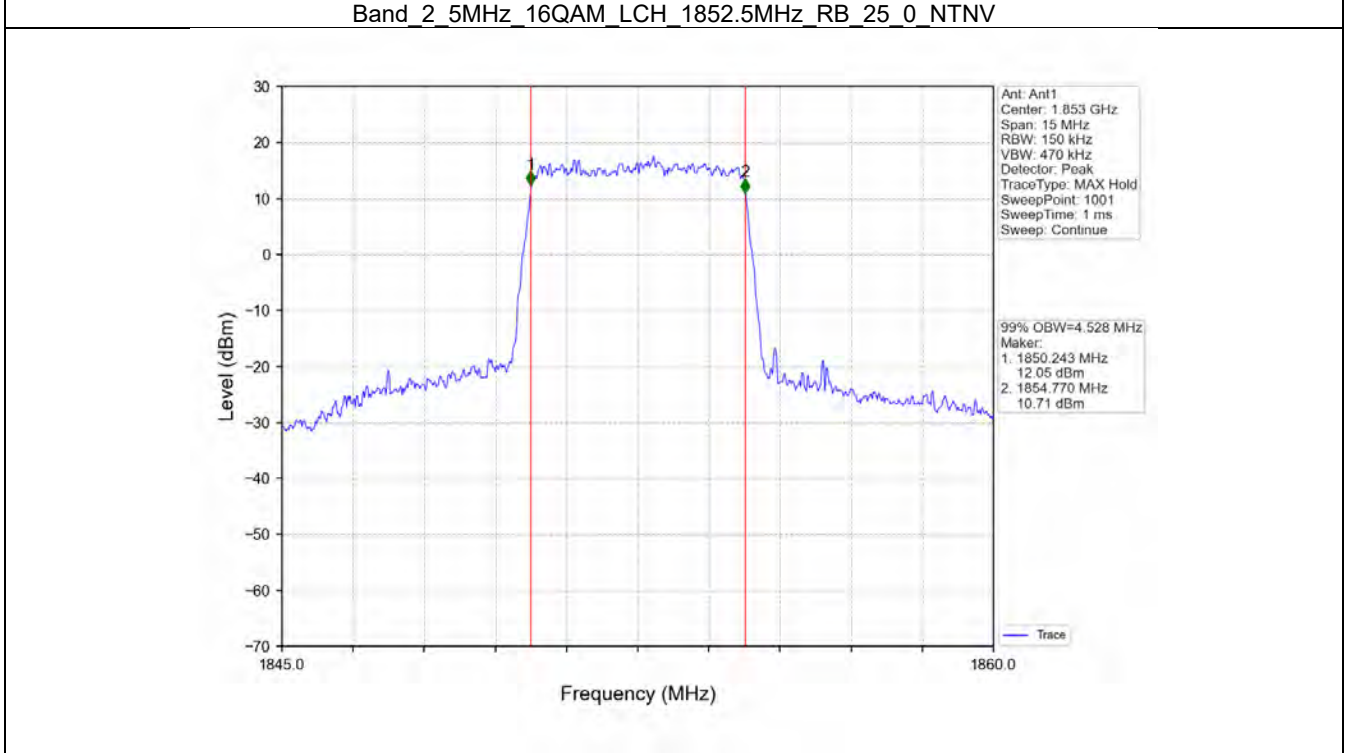
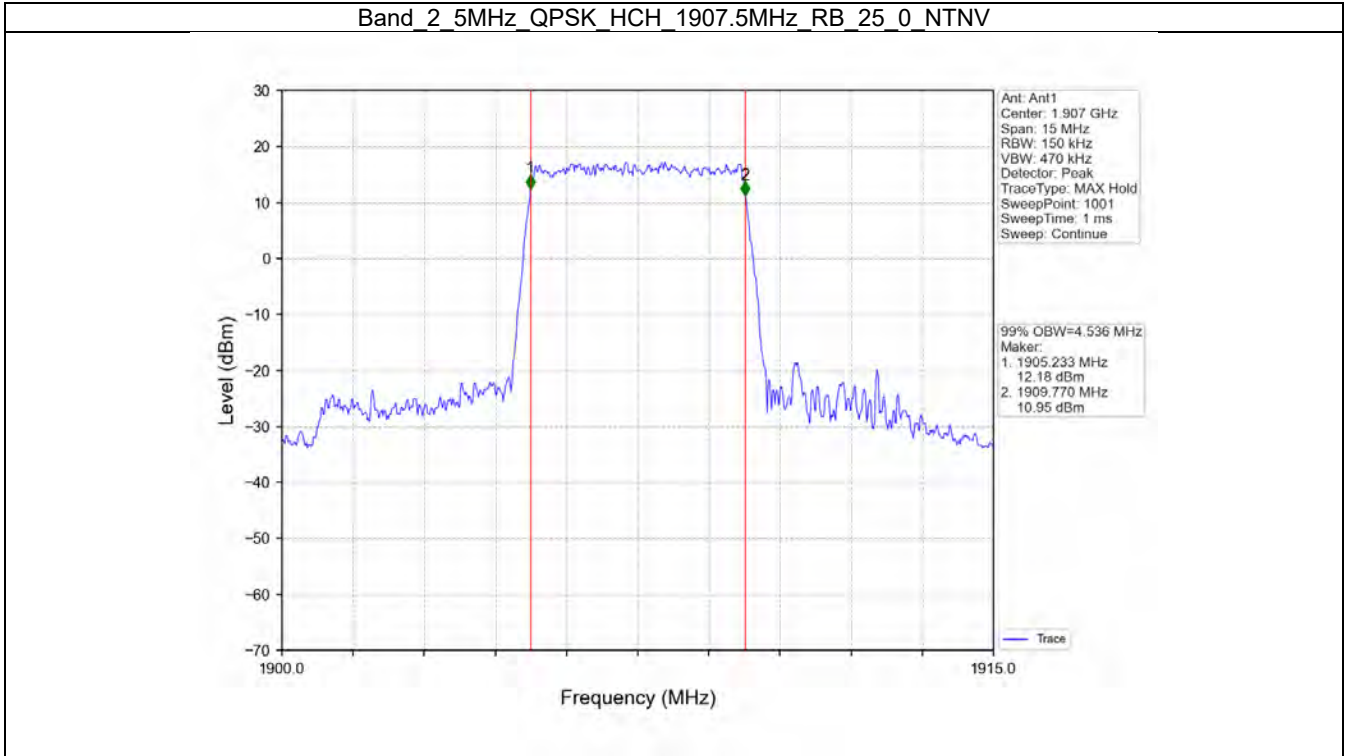
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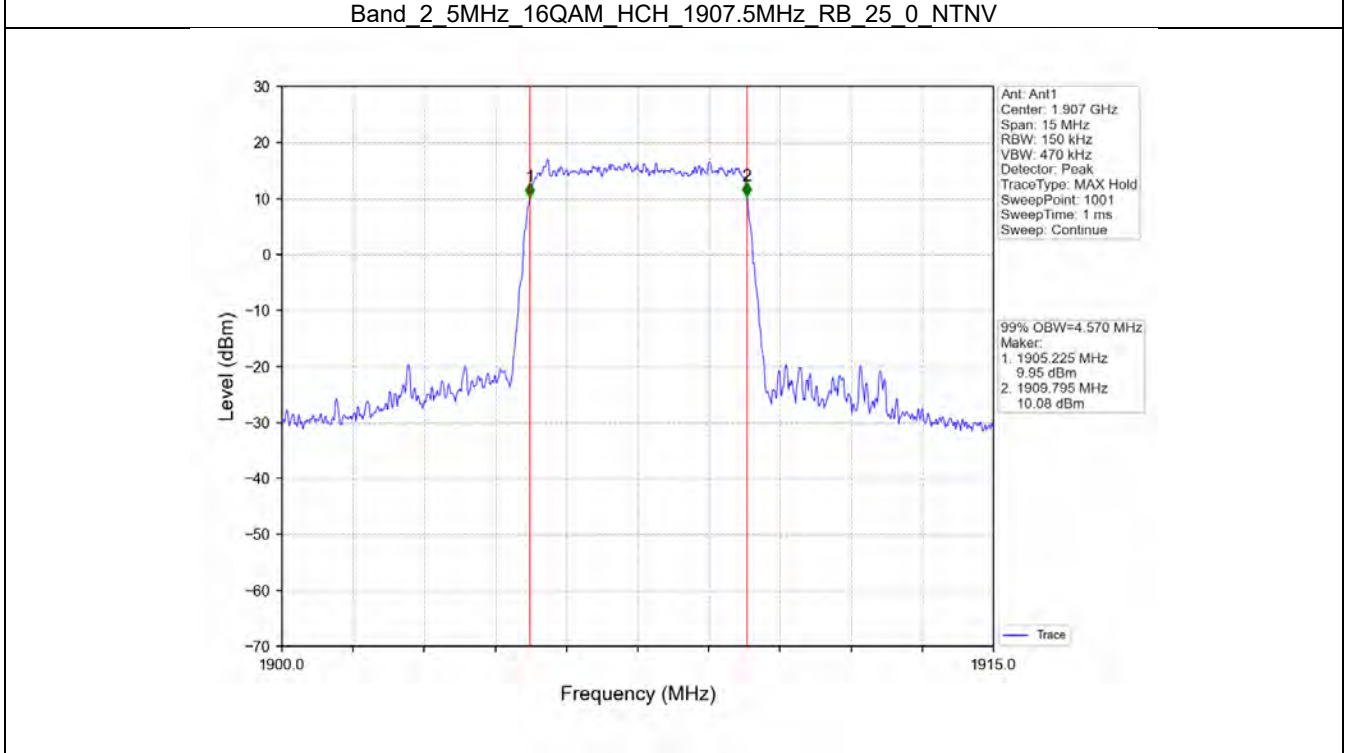
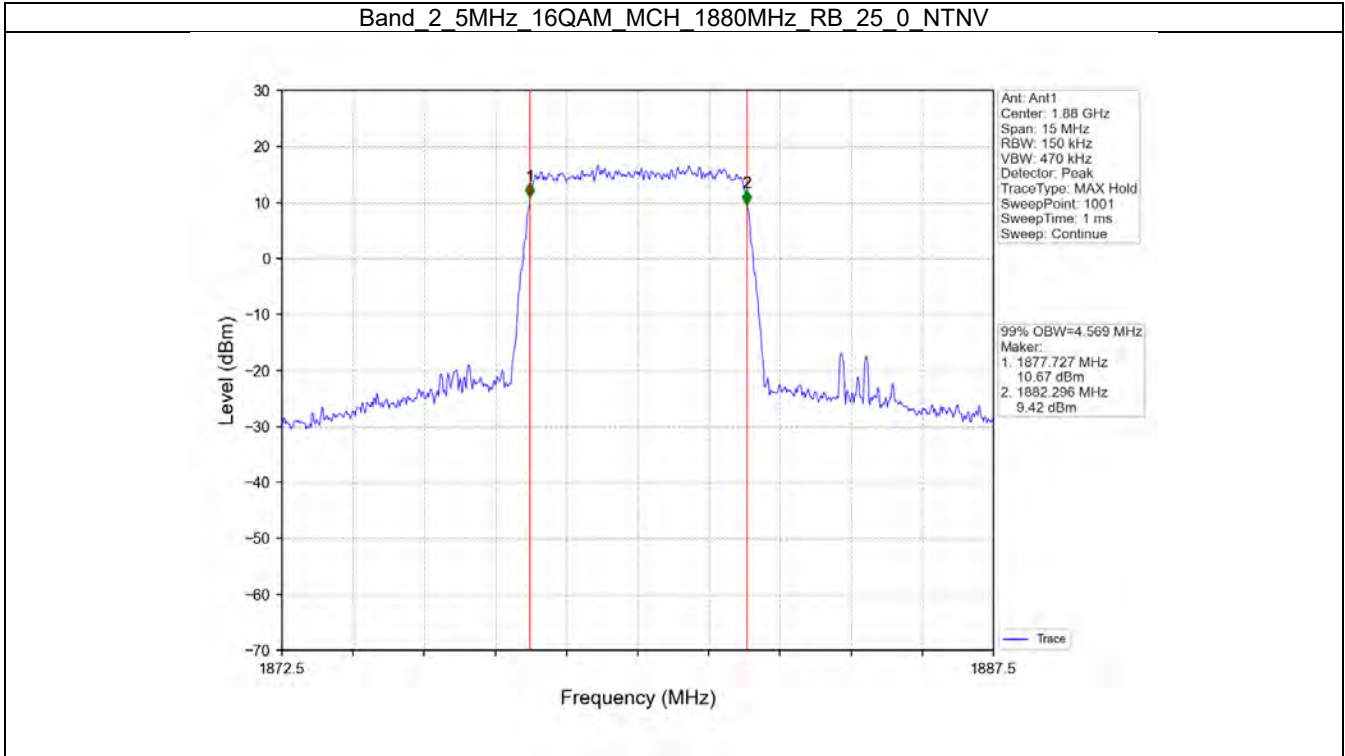
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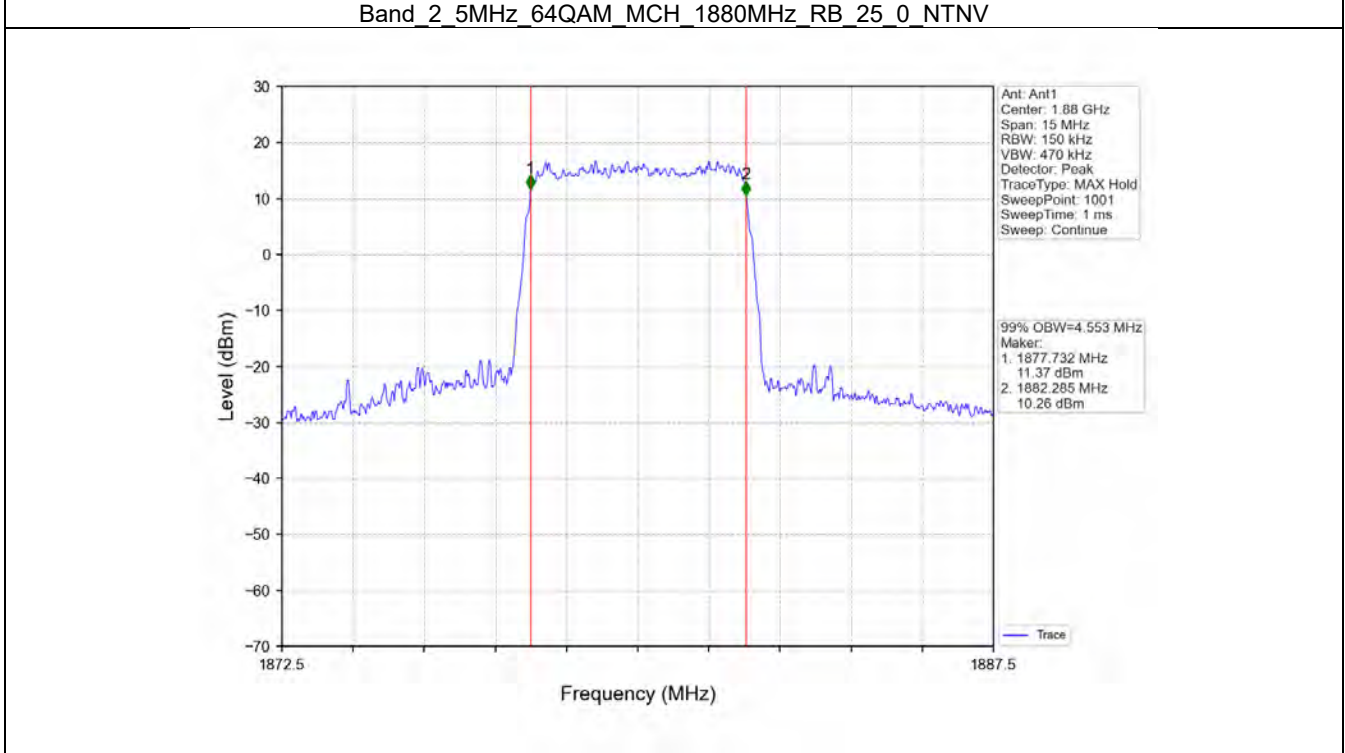
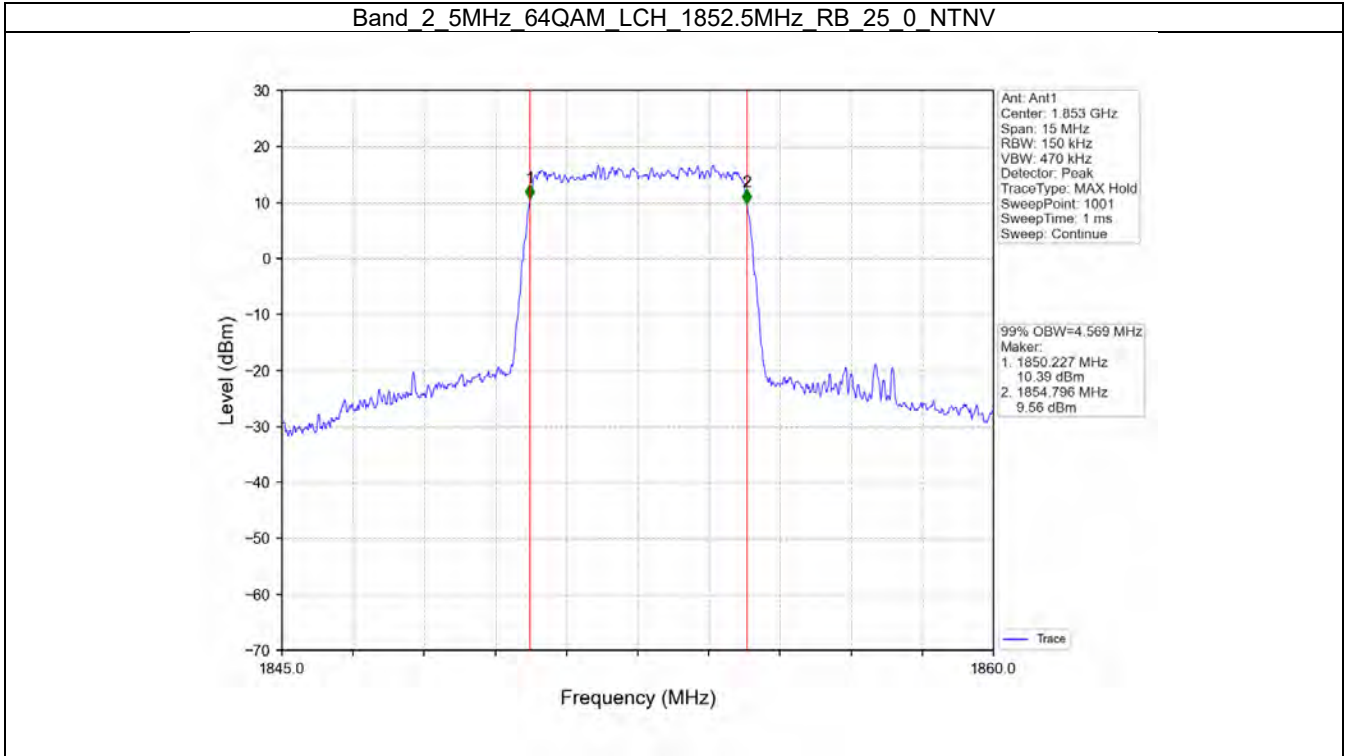
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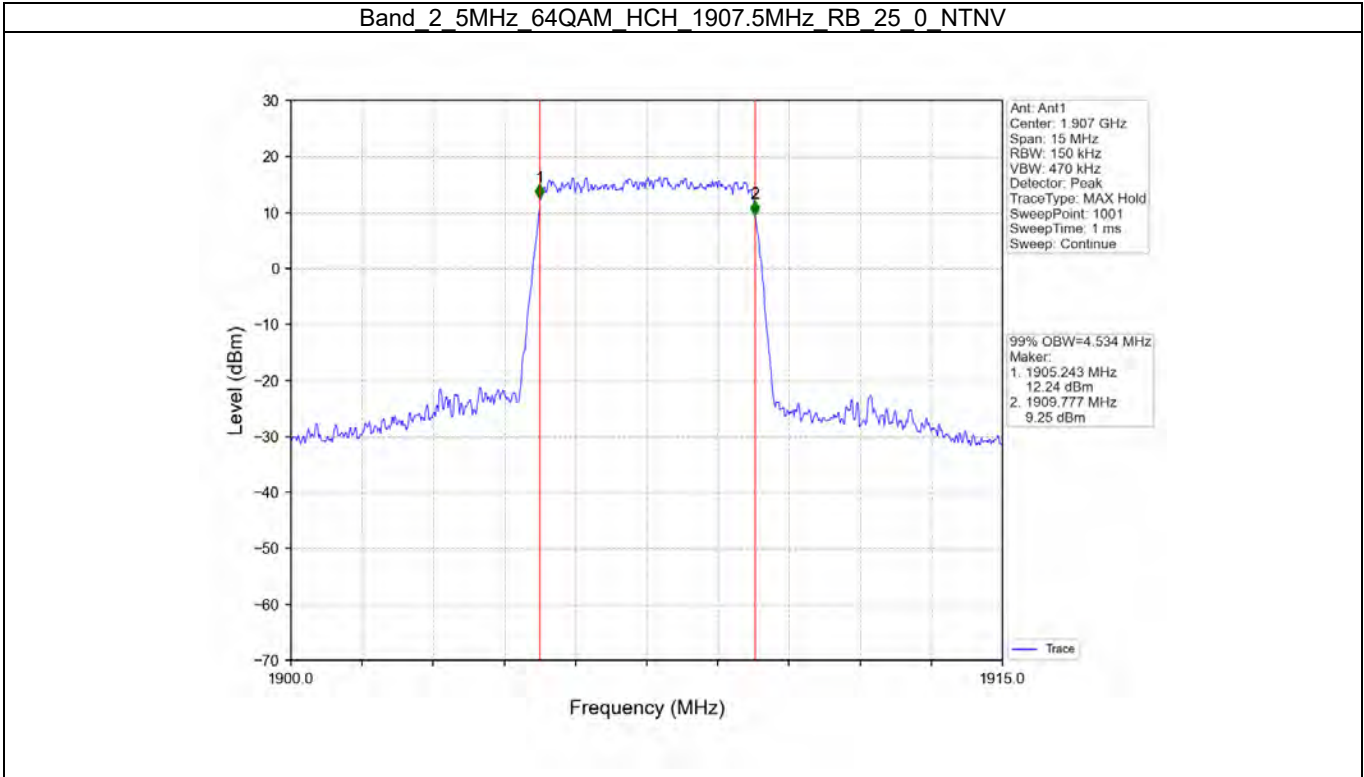
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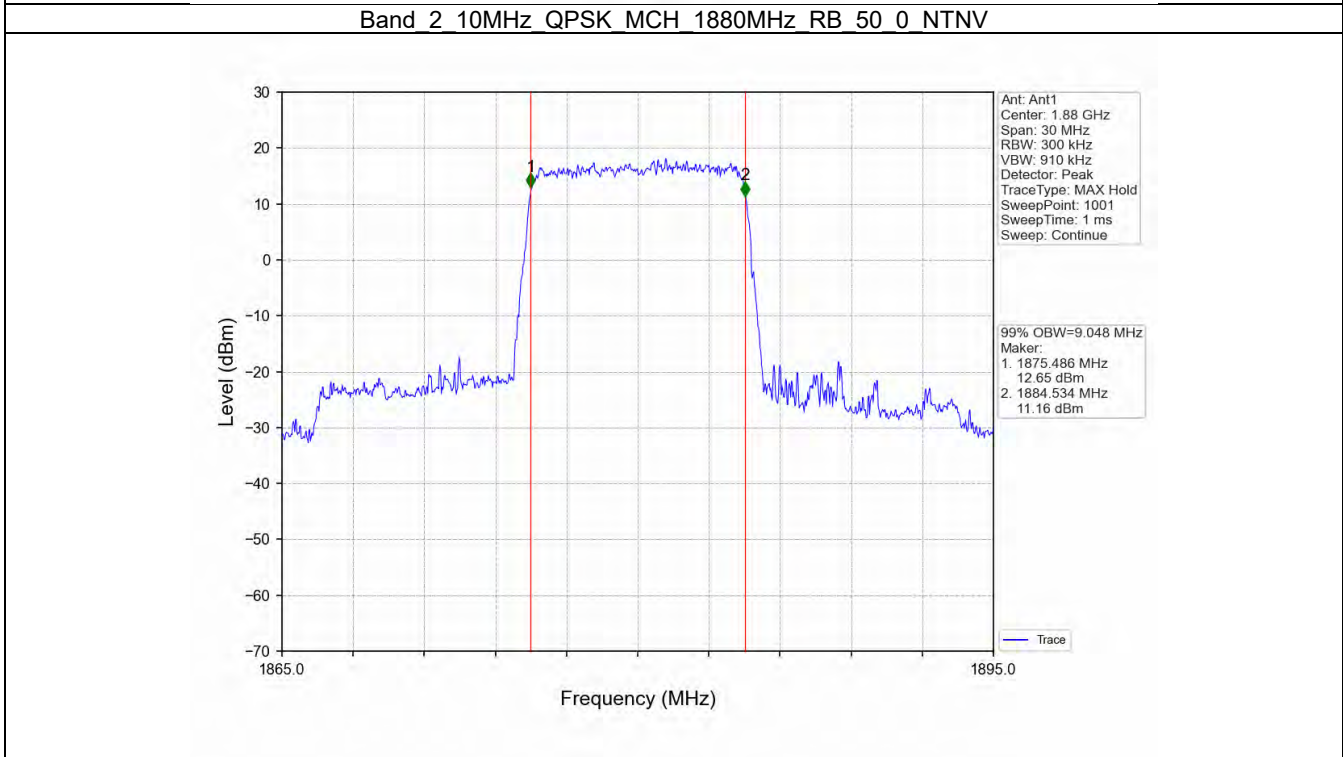
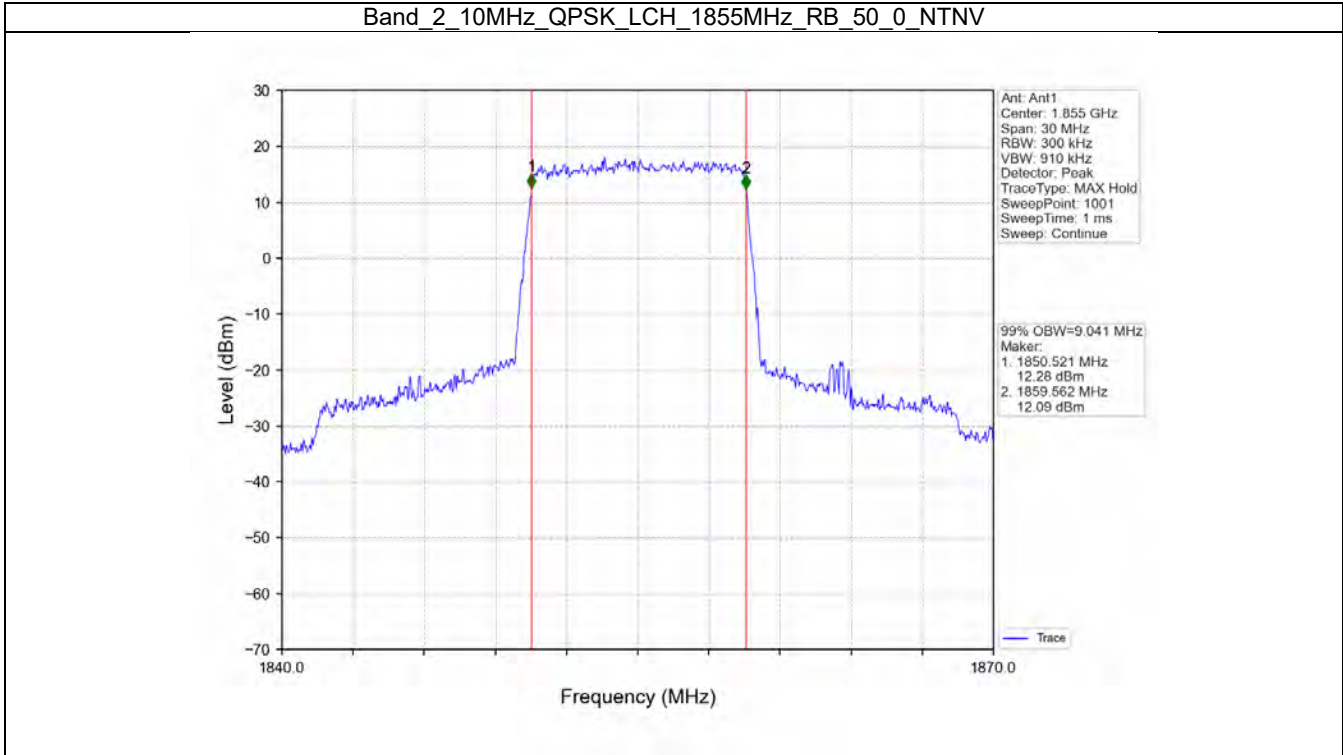
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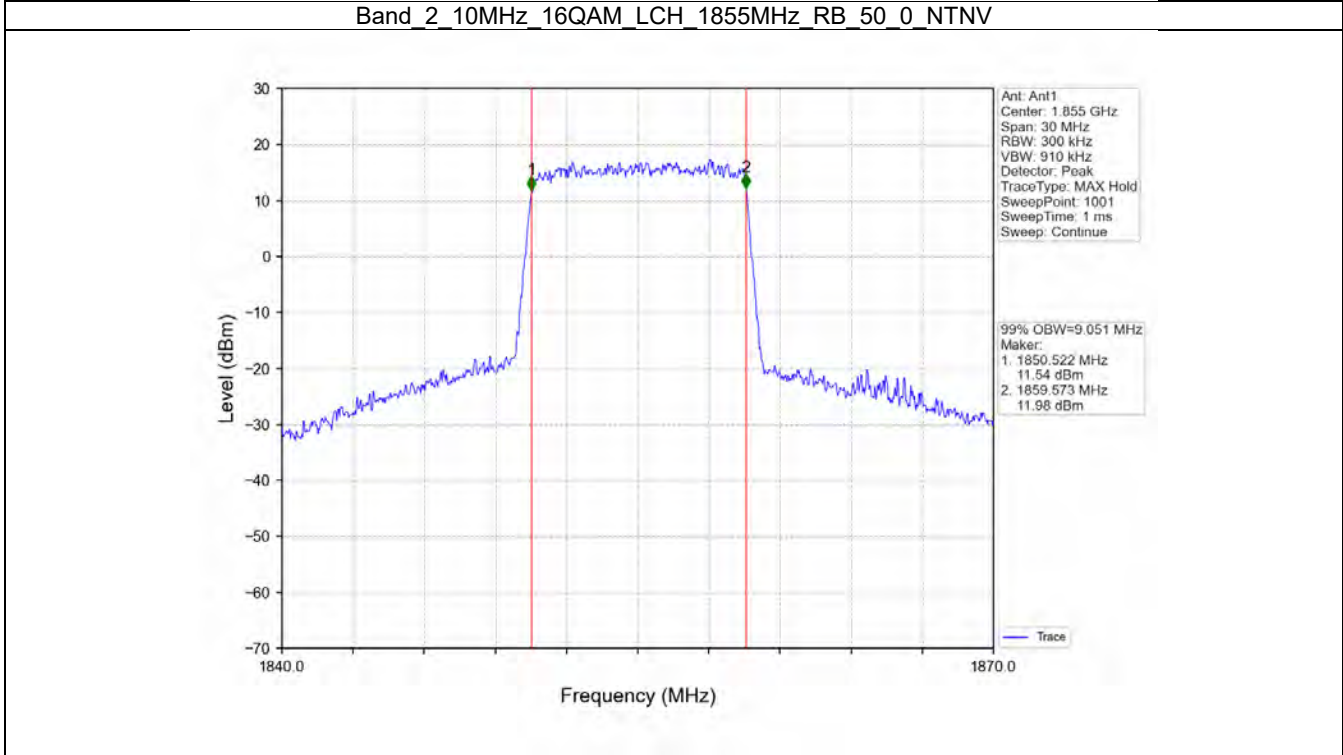
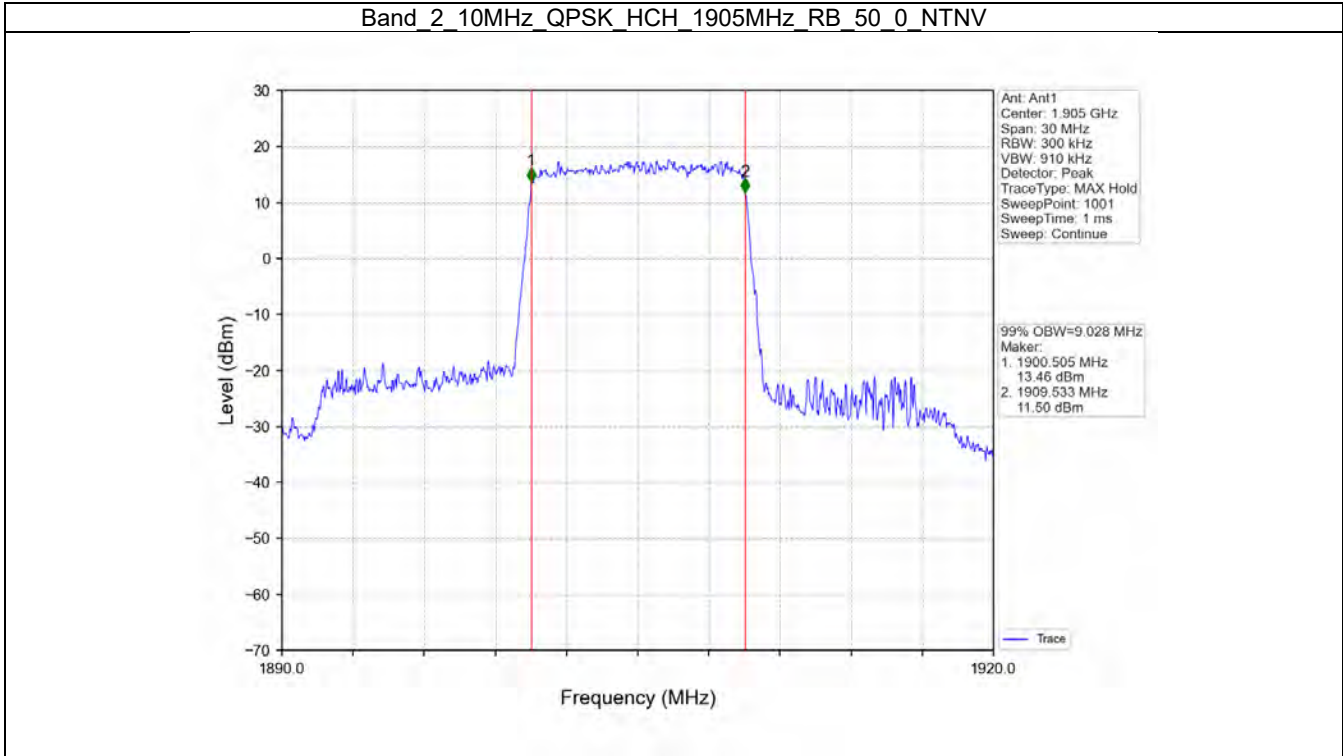
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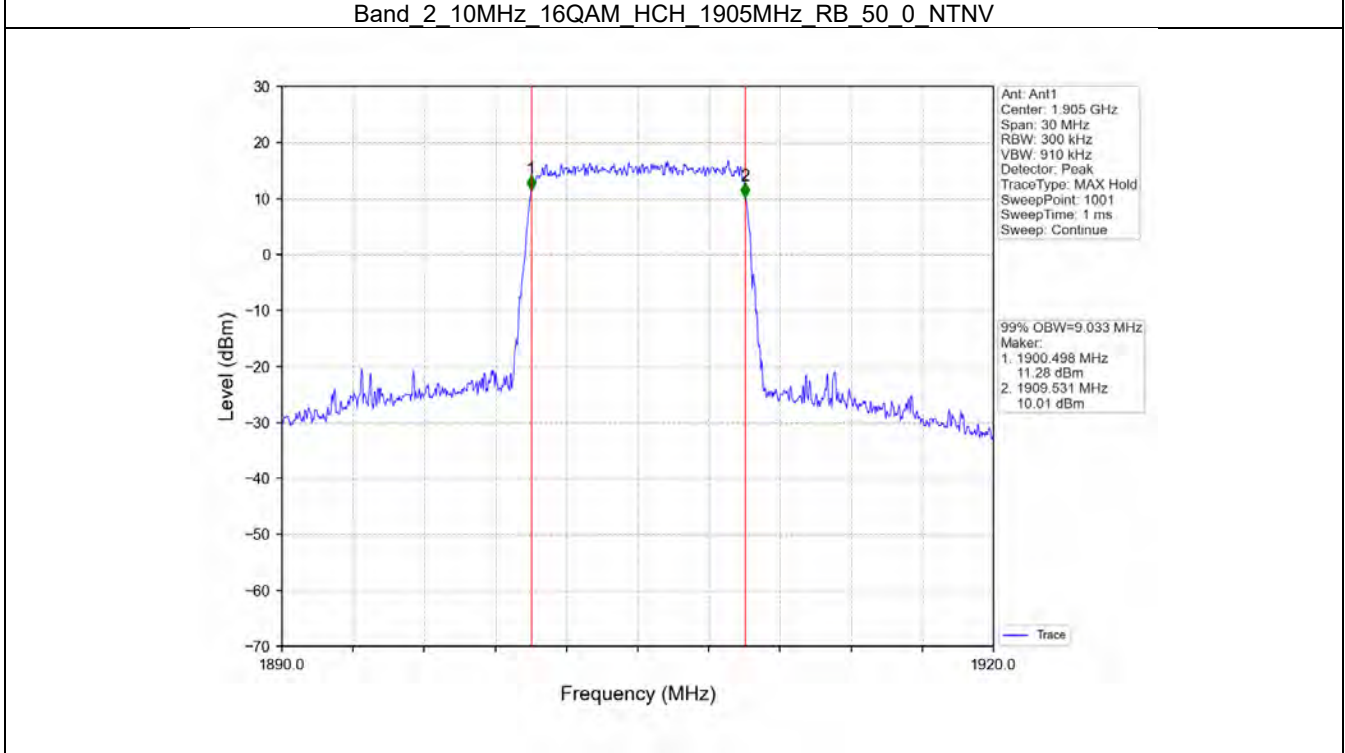
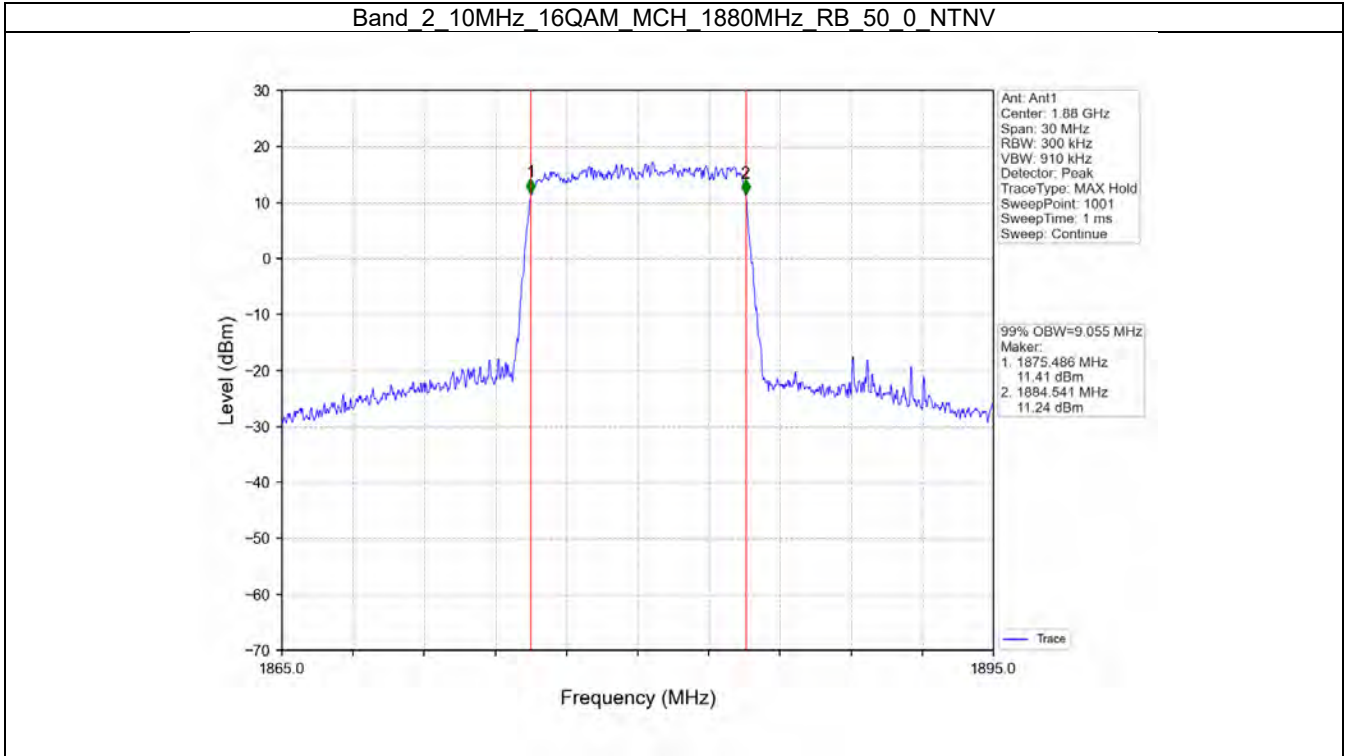
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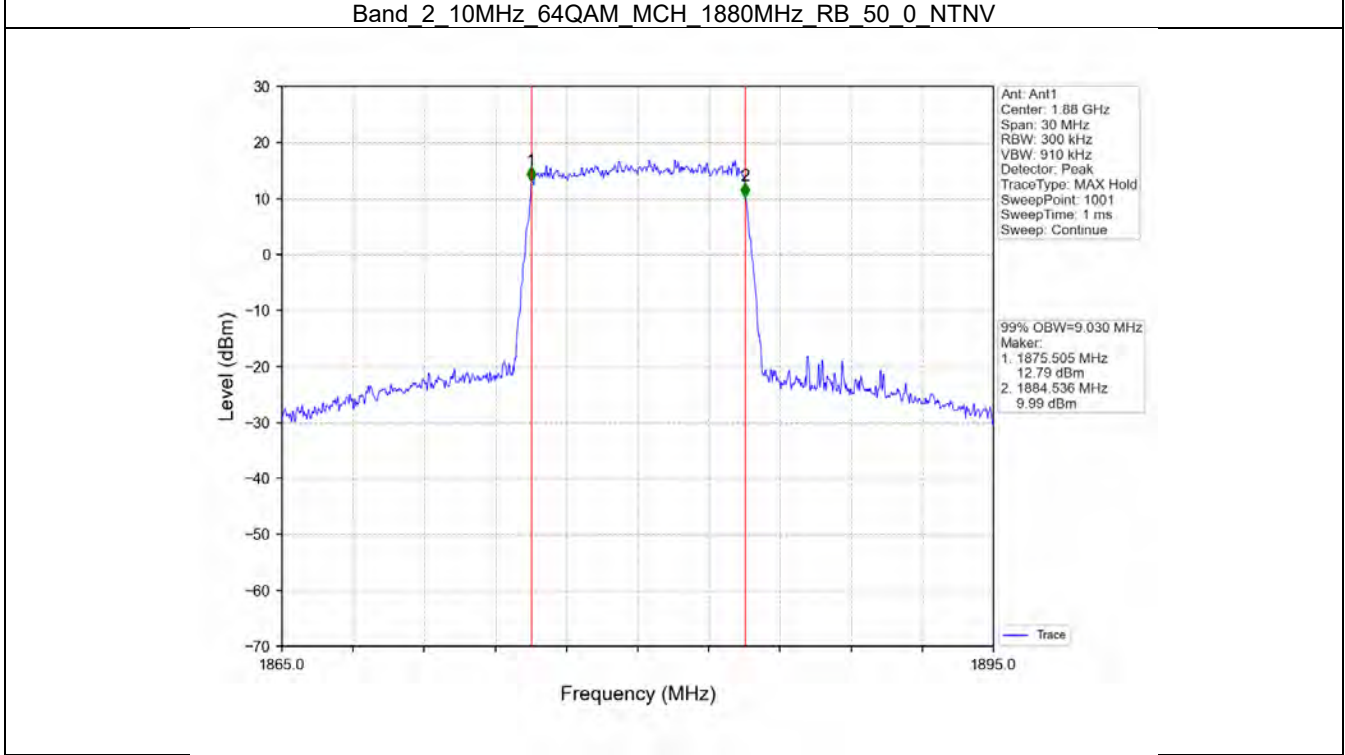
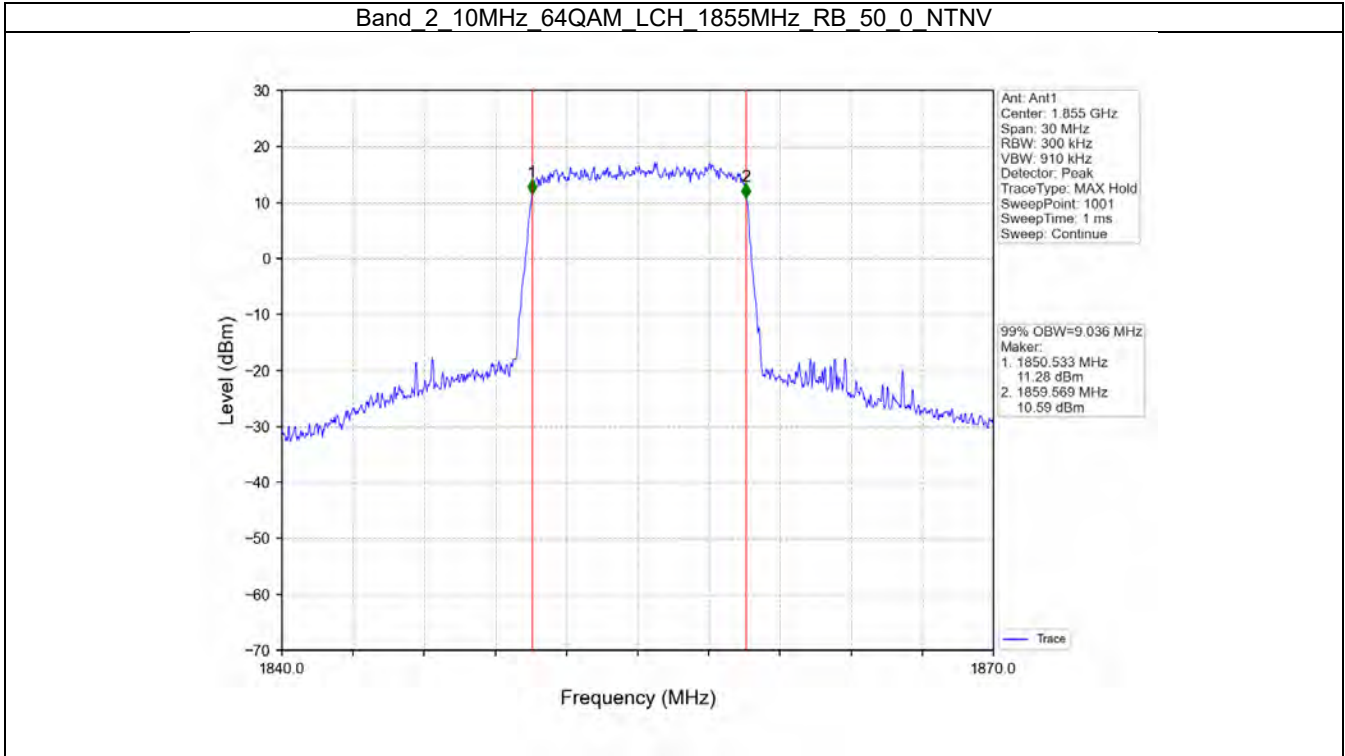
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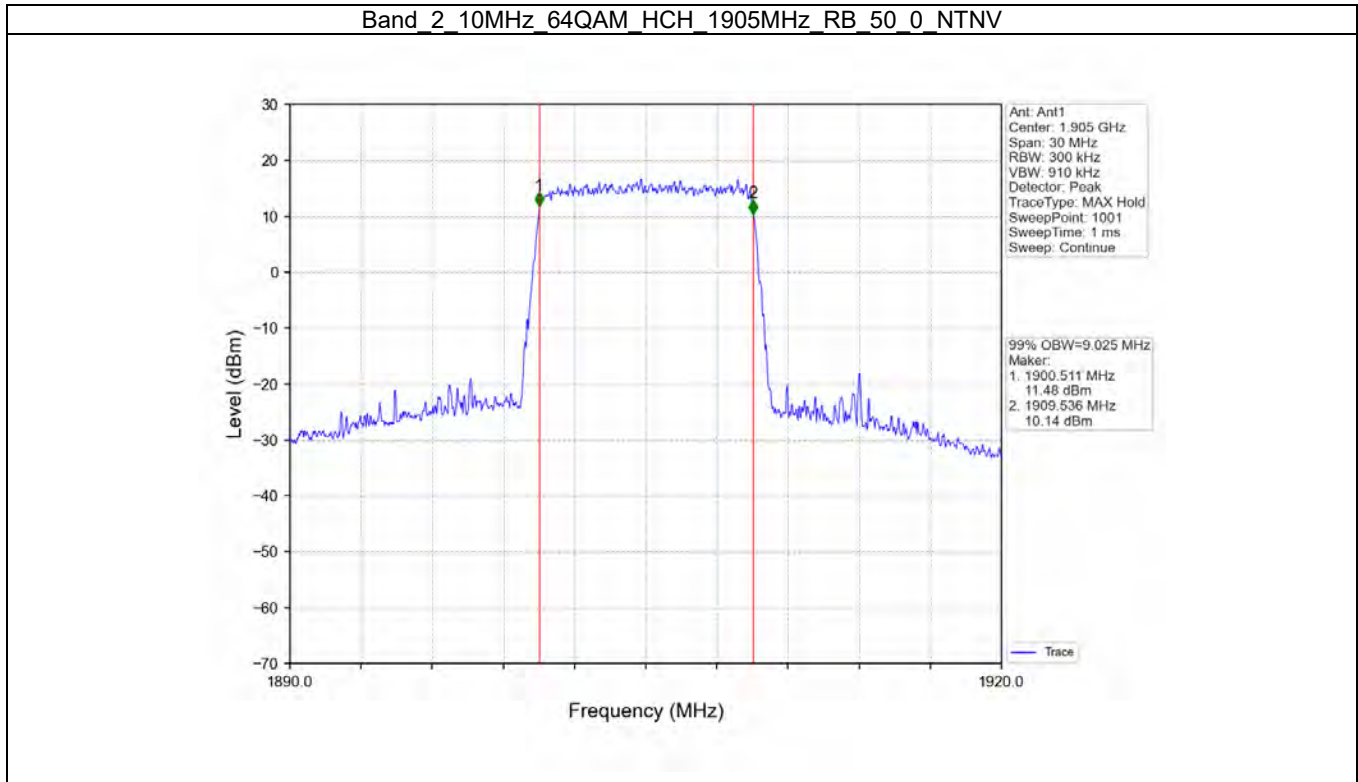
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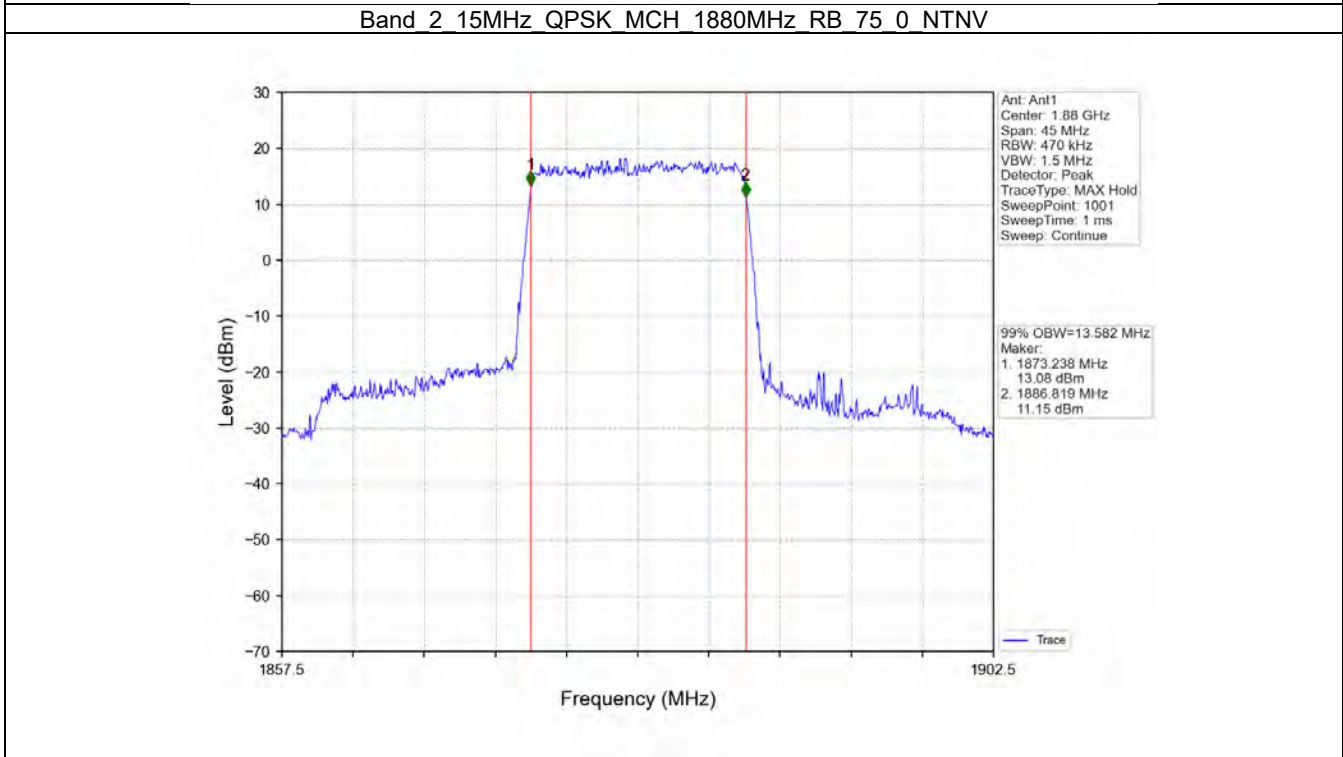
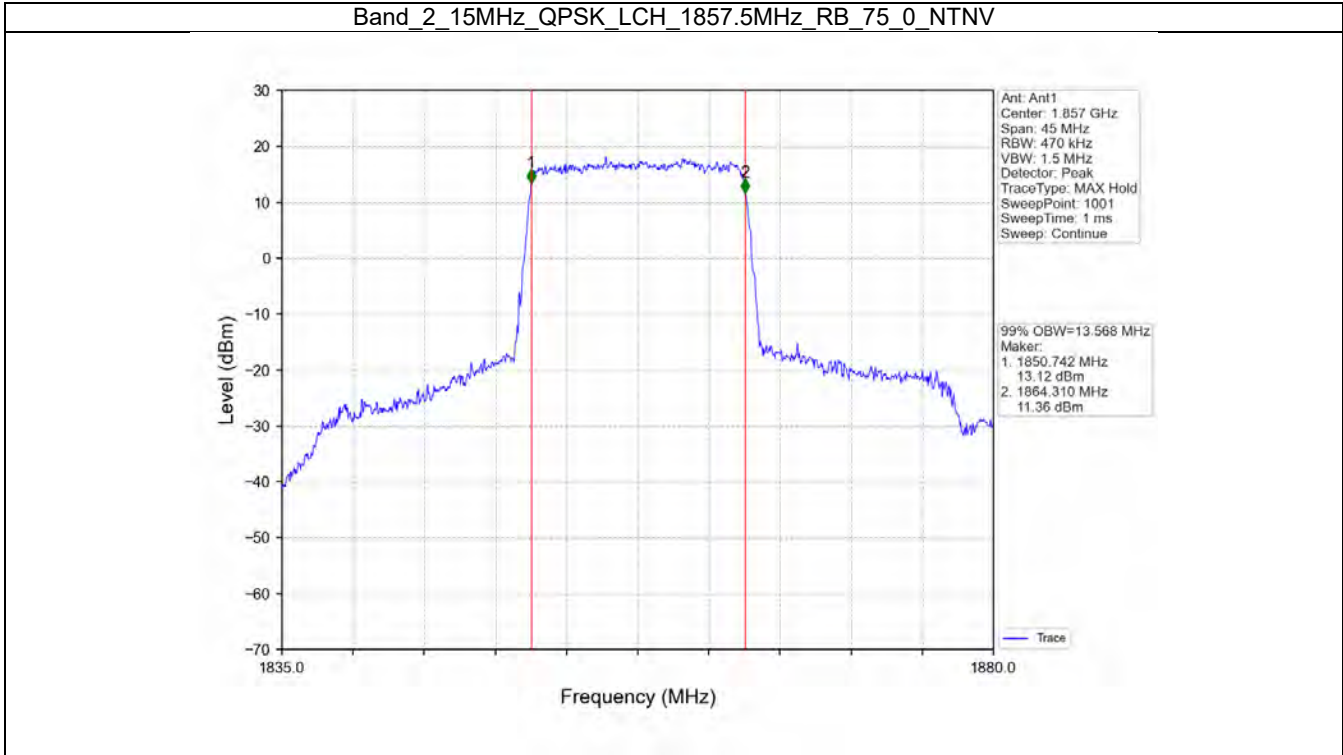
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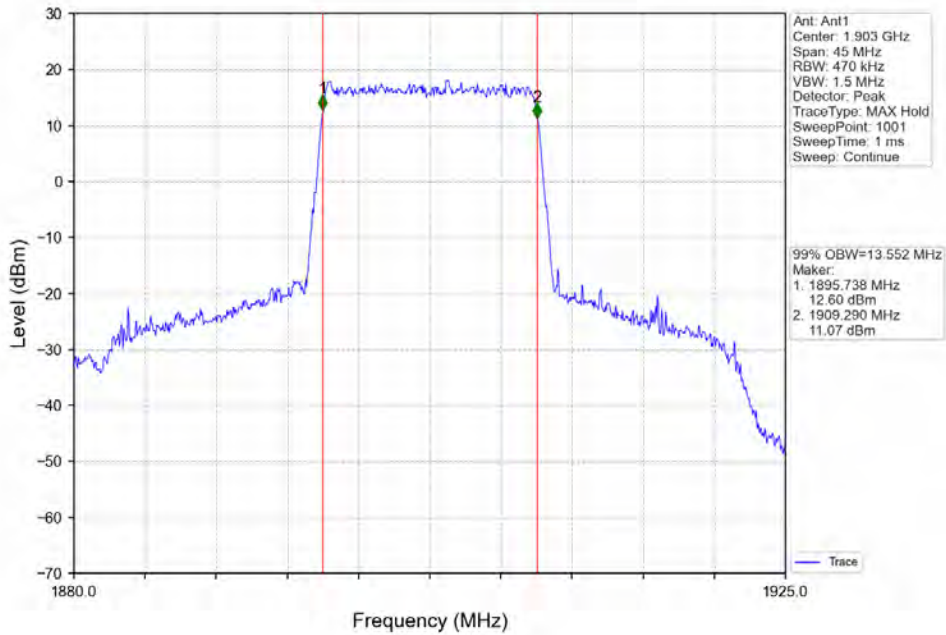
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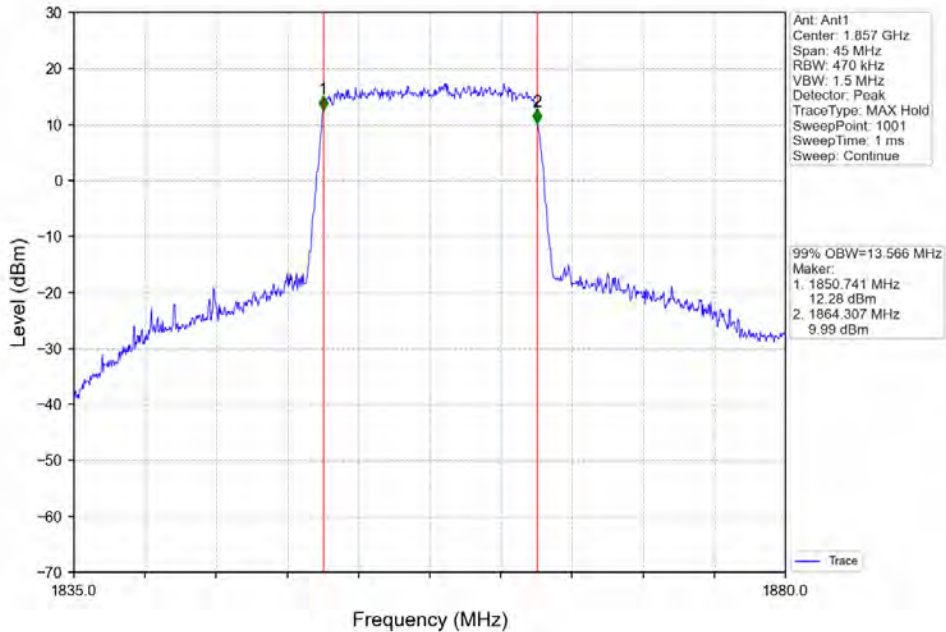
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Band 2 15MHz QPSK HCH 1902.5MHz RB 75 0 NTN



Band 2 15MHz 16QAM LCH 1857.5MHz RB 75 0 NTN



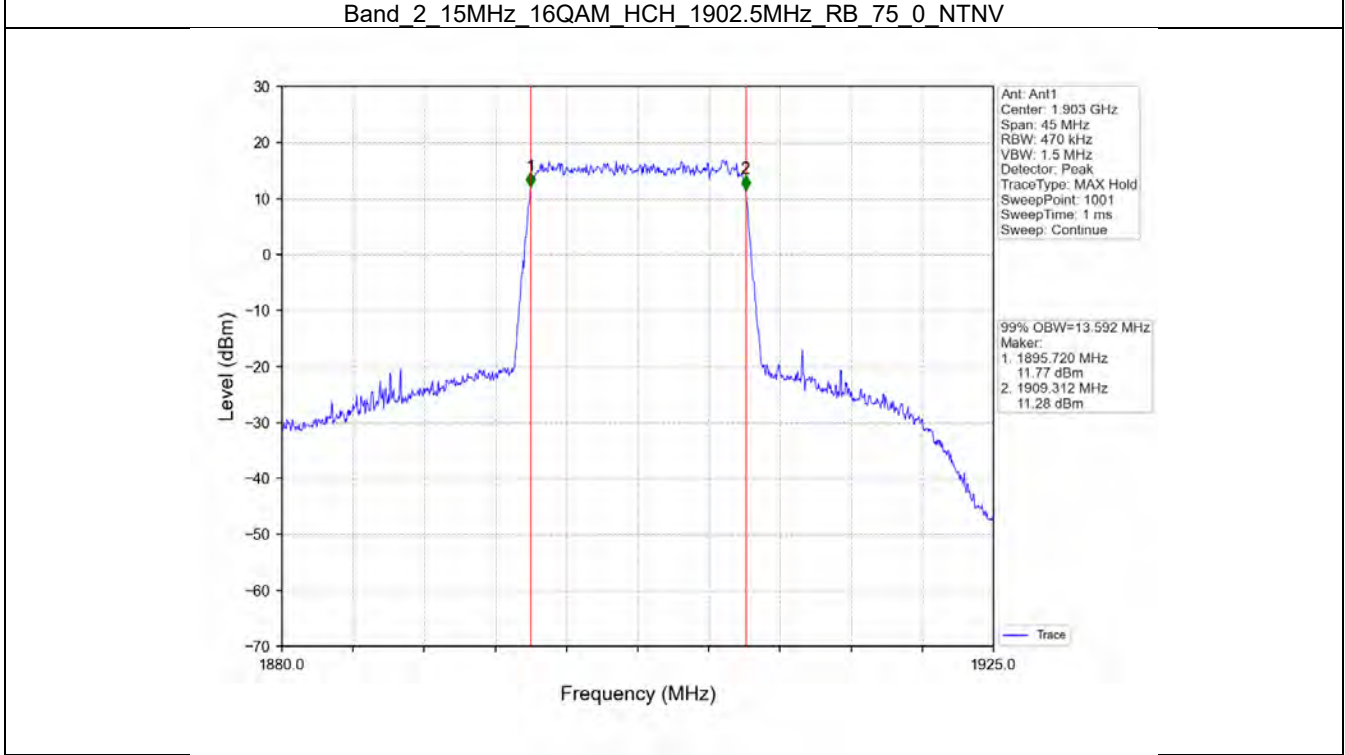
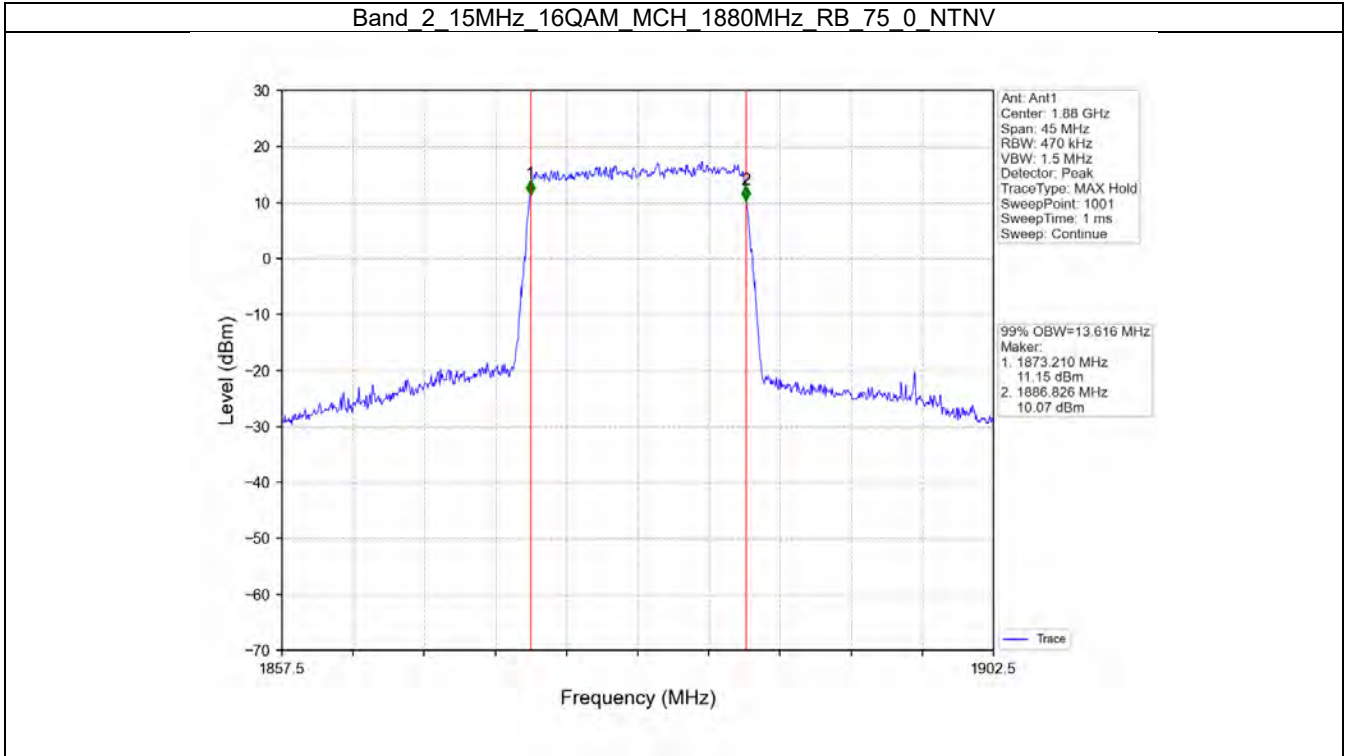
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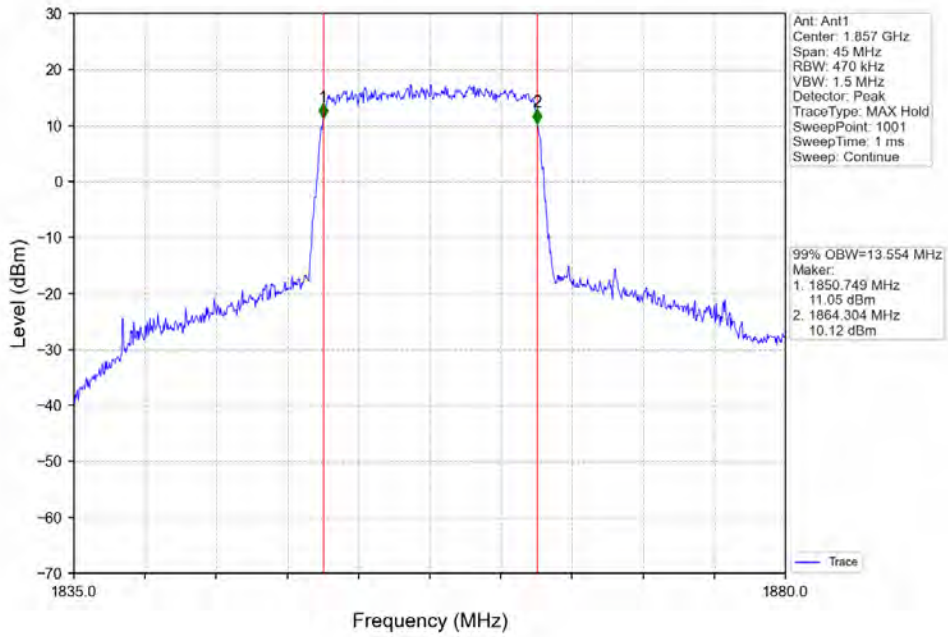
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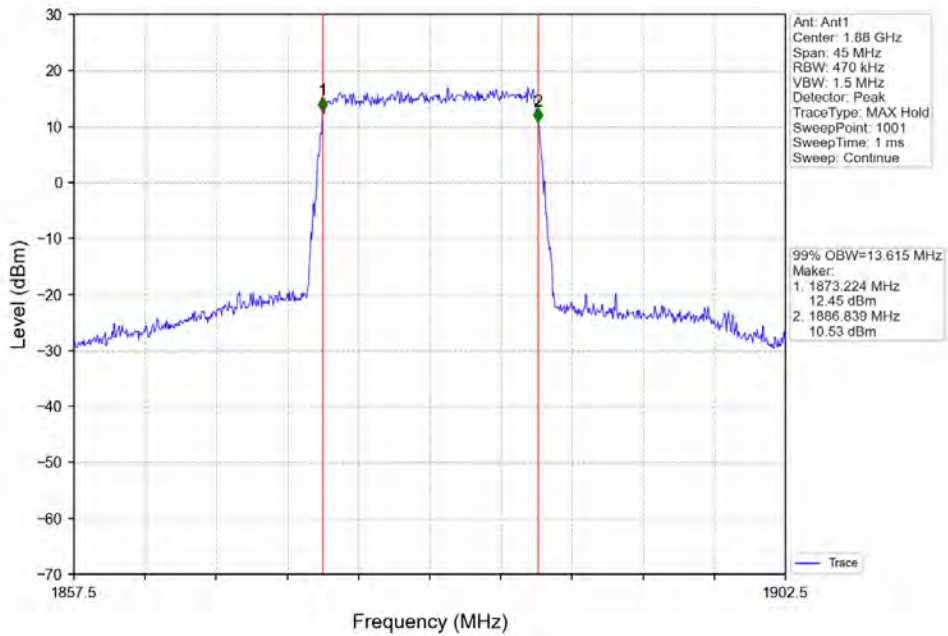
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Band 2 15MHz 64QAM LCH 1857.5MHz RB 75 0 NTNV



Band 2 15MHz 64QAM MCH 1880MHz RB 75 0 NTNV



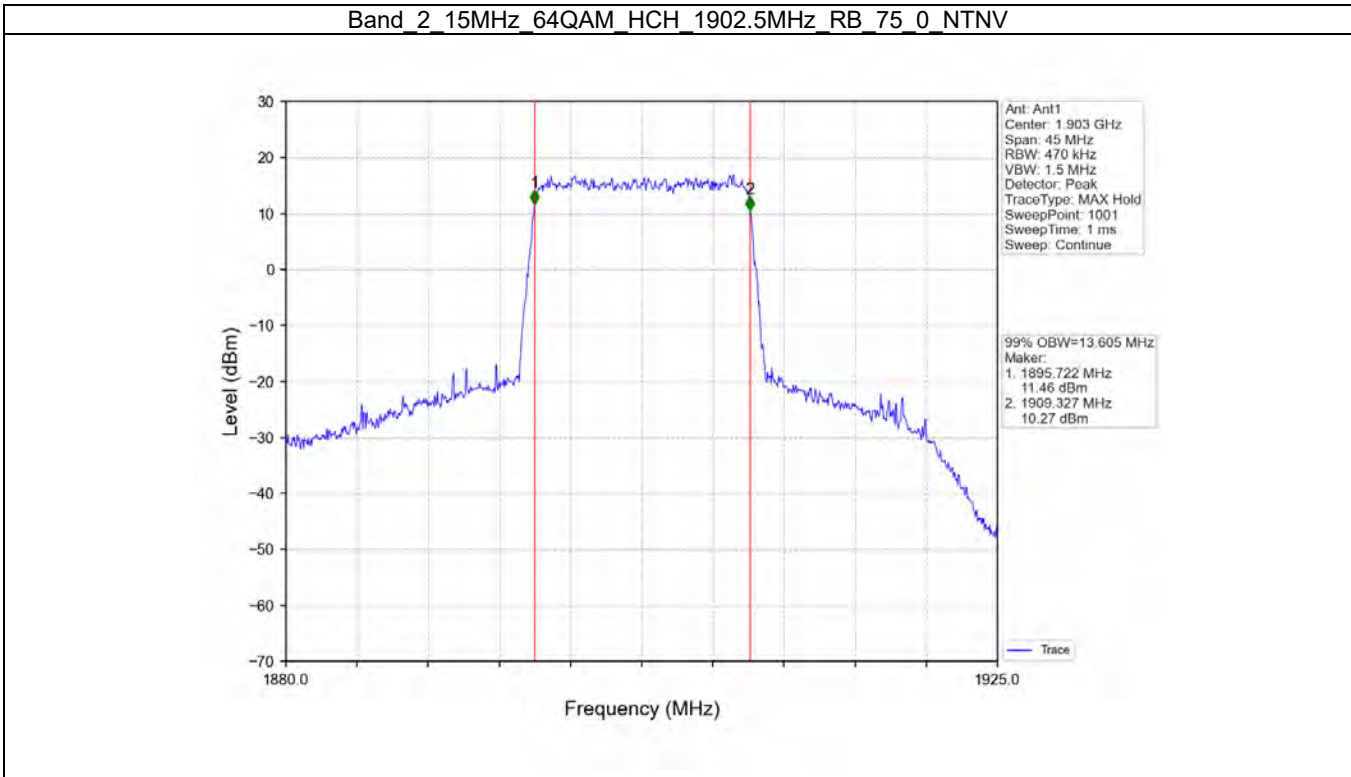
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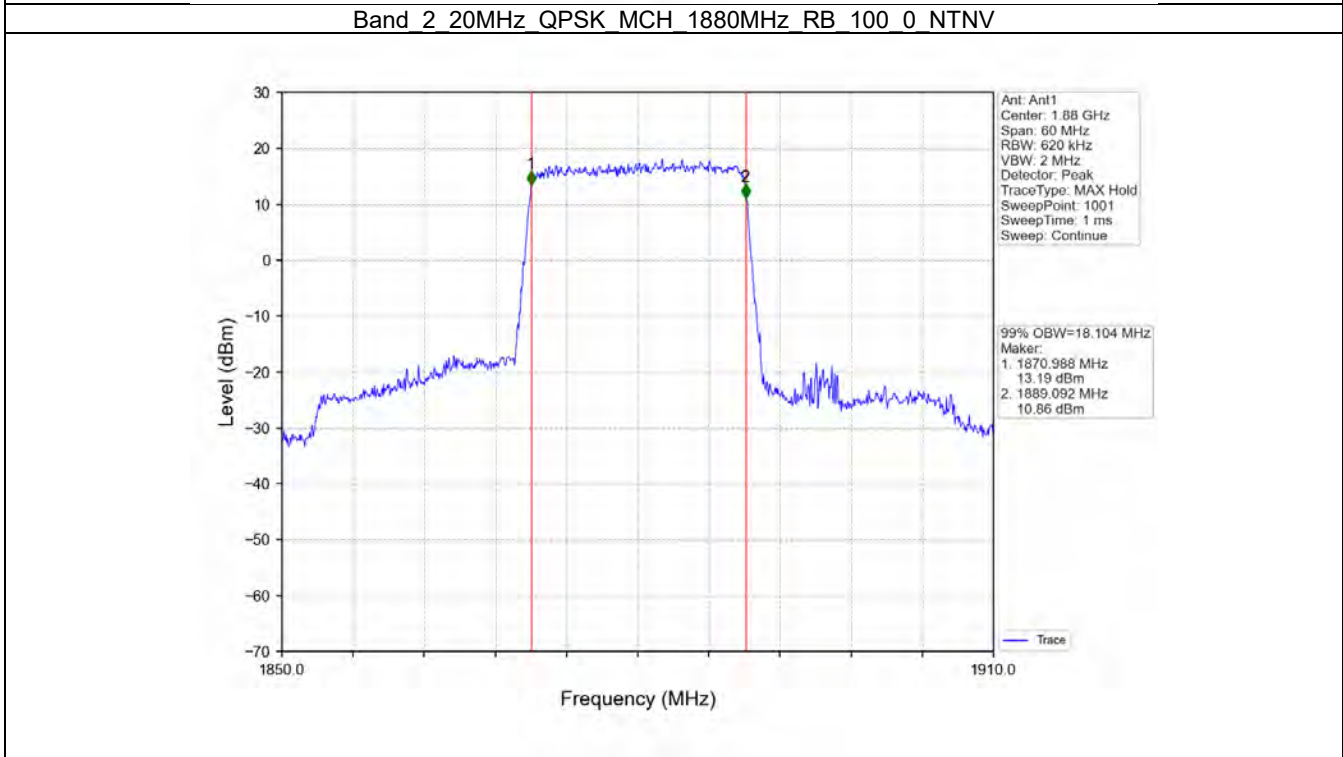
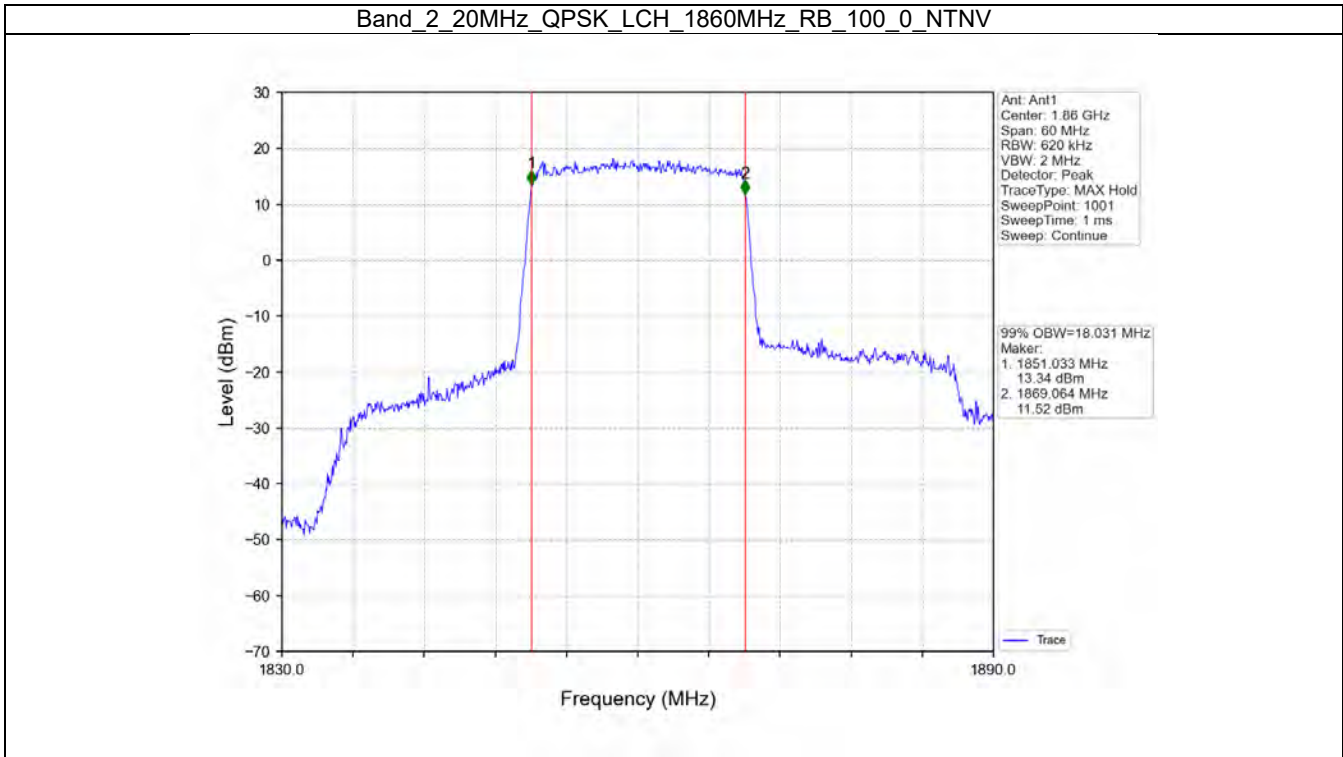
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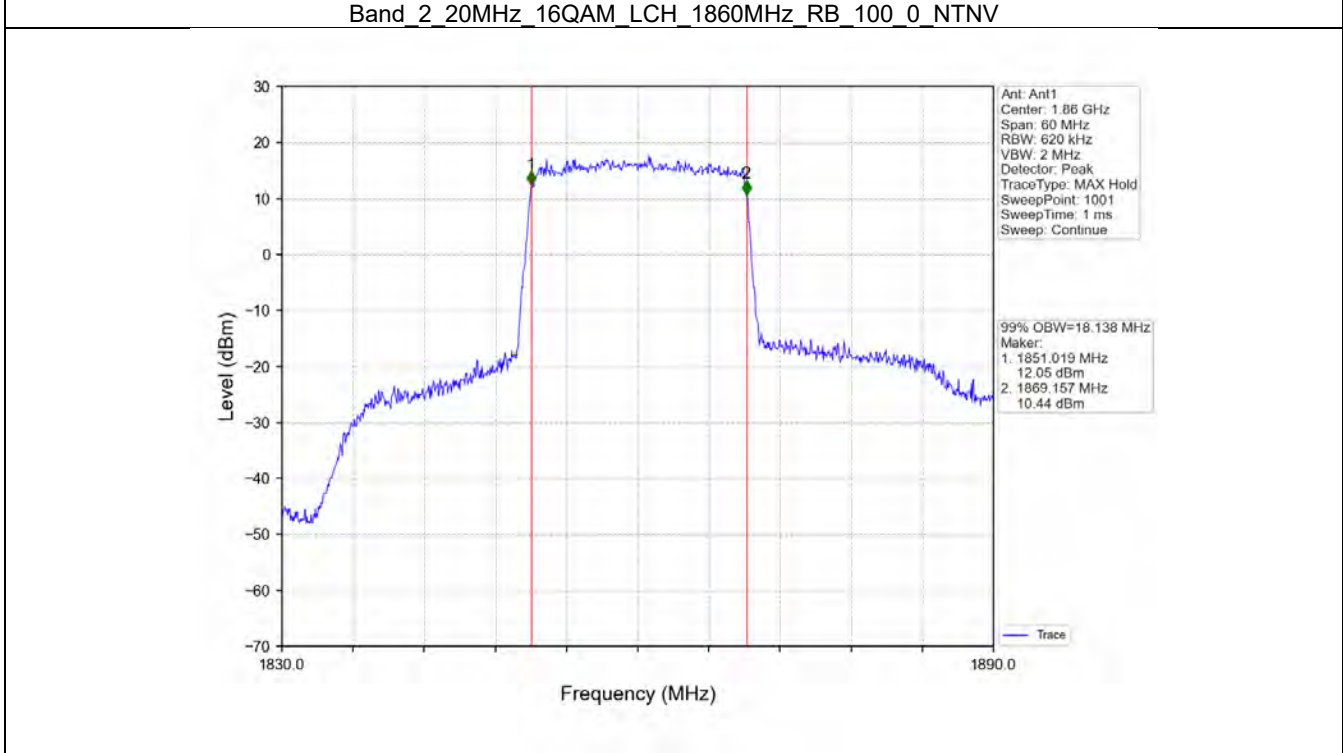
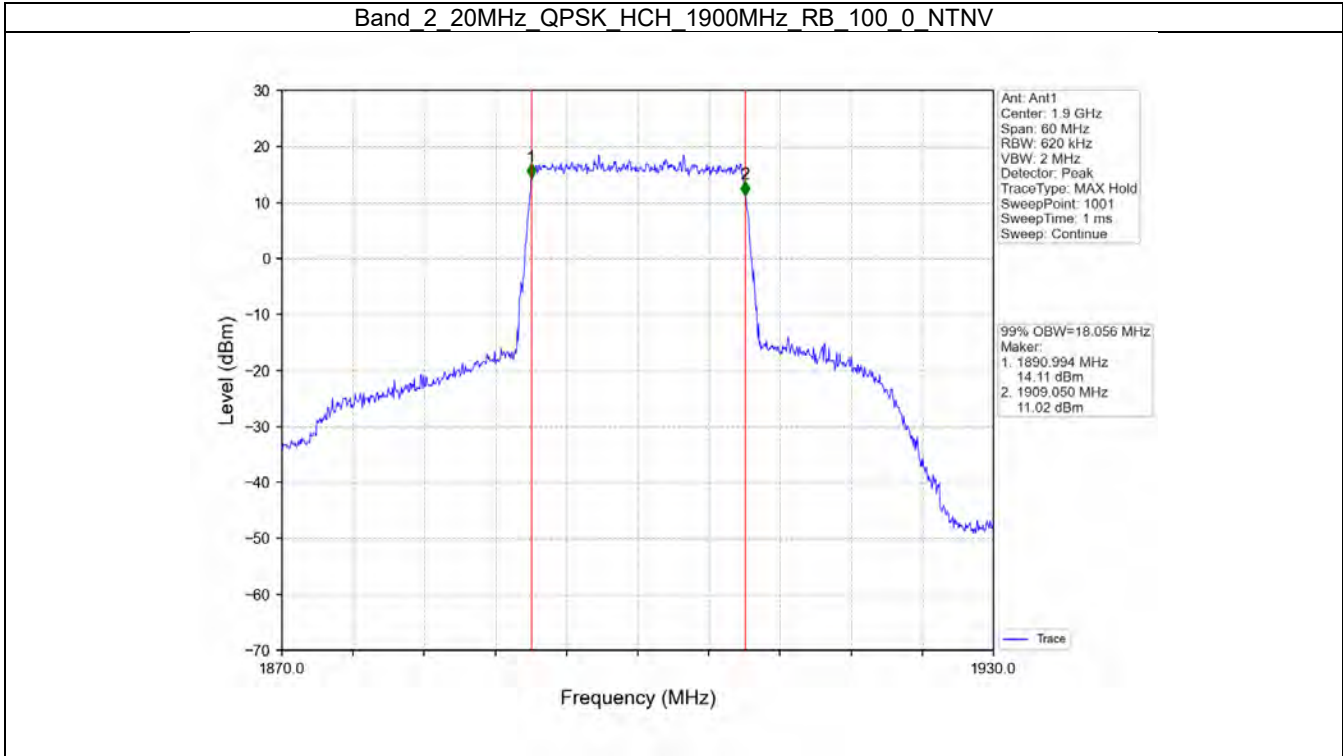
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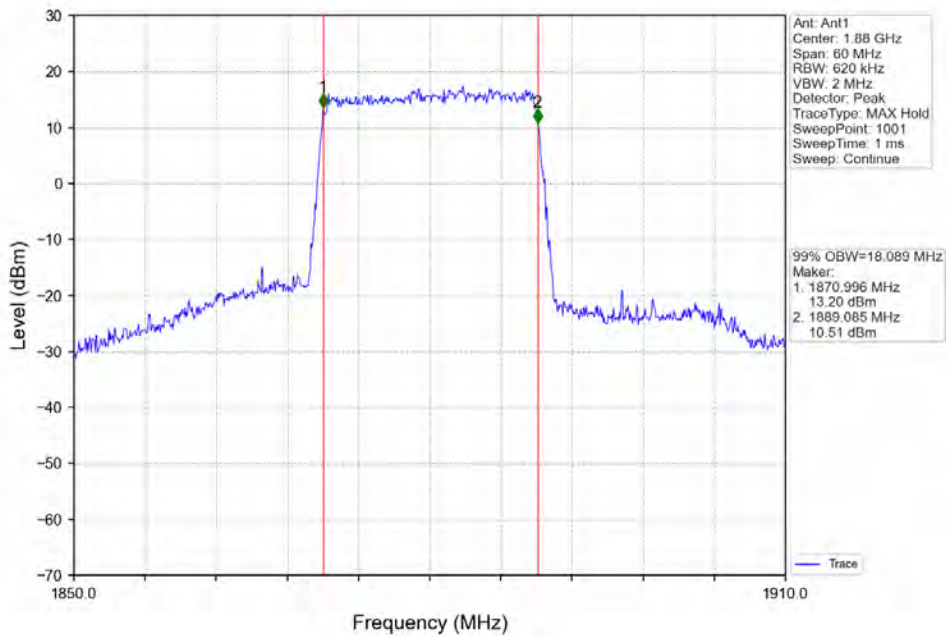
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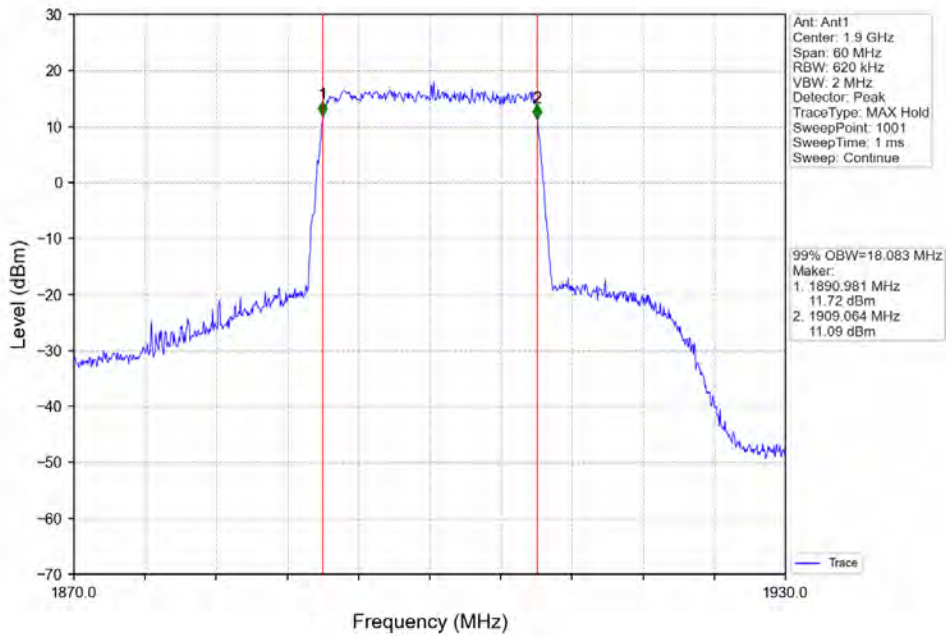
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Band 2 20MHz 16QAM MCH 1880MHz RB 100 0 NTN



Band 2 20MHz 16QAM HCH 1900MHz RB 100 0 NTN



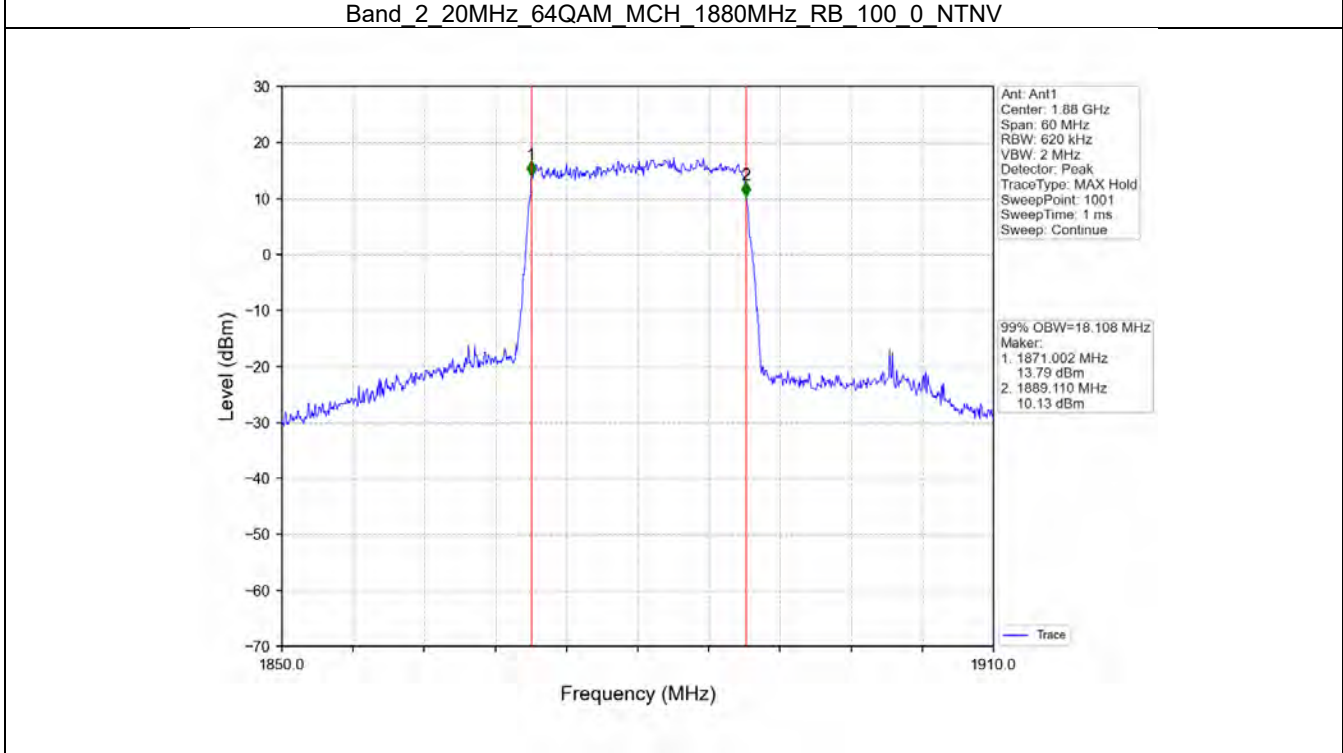
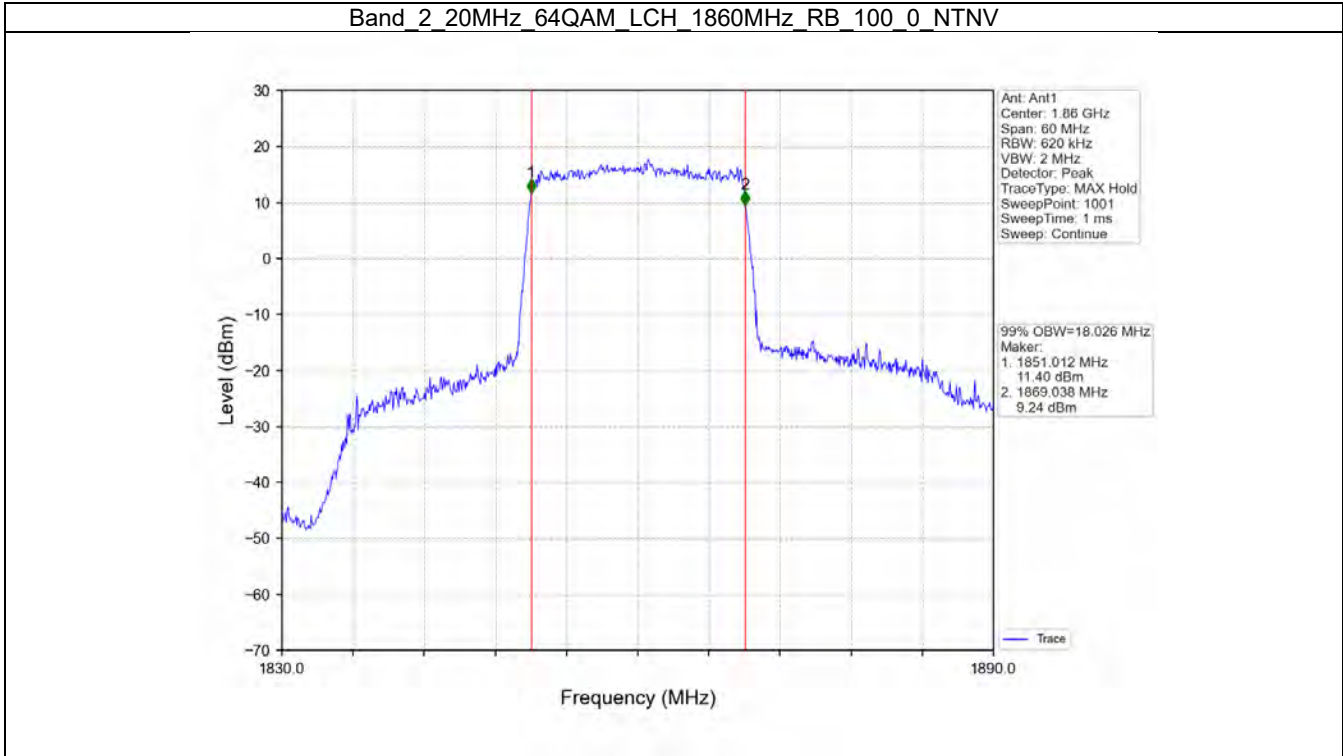
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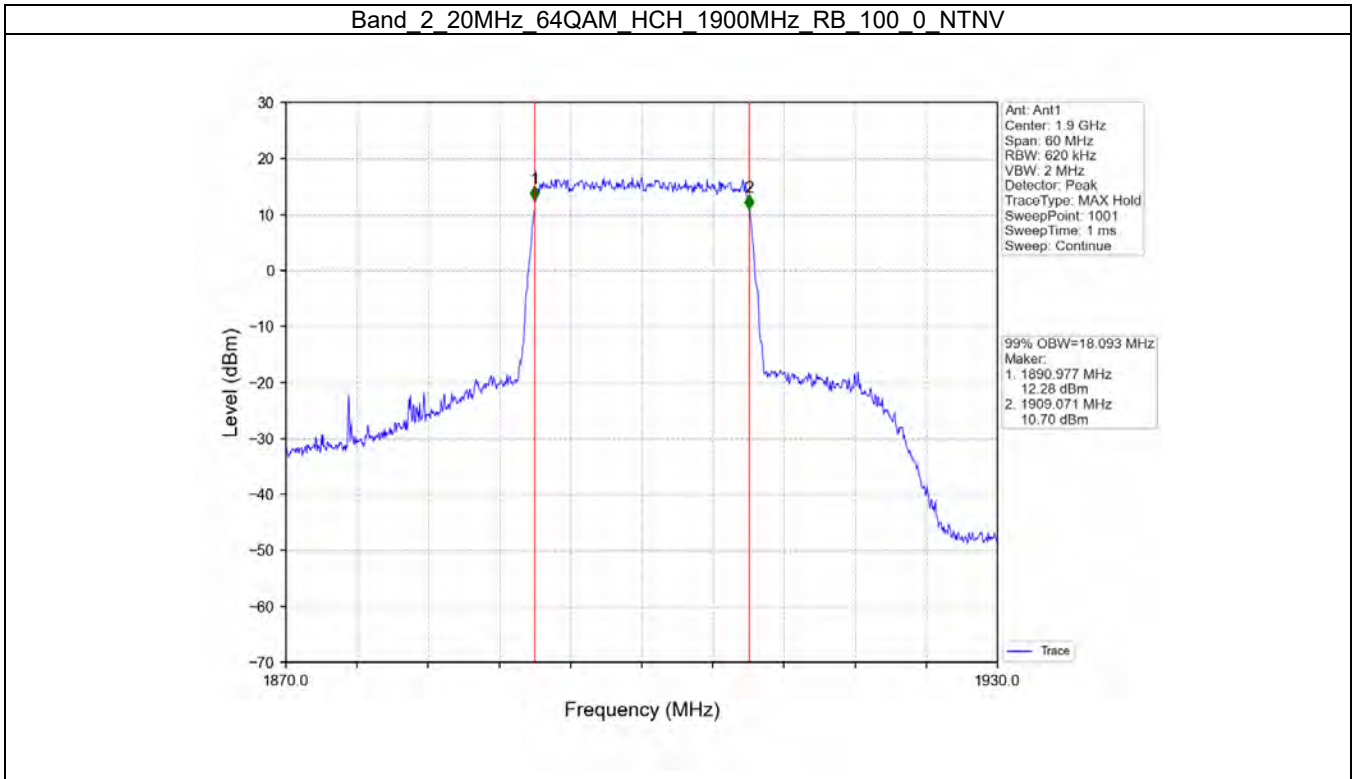
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2.6 LTE Band 2 26DB

2.6.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.262	1.267	1.264	/	Pass
16QAM	6	0	1.270	1.252	1.269	/	Pass
64QAM	6	0	1.271	1.254	1.257	/	Pass
Band: 2 / Bandwidth: 3MHz / NTV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.073	3.060	3.050	/	Pass
16QAM	15	0	3.057	3.096	3.091	/	Pass
64QAM	15	0	3.059	3.057	3.075	/	Pass
Band: 2 / Bandwidth: 5MHz / NTV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.045	5.001	5.074	/	Pass
16QAM	25	0	5.039	5.081	5.056	/	Pass
64QAM	25	0	5.076	5.060	5.043	/	Pass
Band: 2 / Bandwidth: 10MHz / NTV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.972	9.997	10.011	/	Pass
16QAM	50	0	9.942	9.977	9.977	/	Pass
64QAM	50	0	9.925	9.967	10.020	/	Pass
Band: 2 / Bandwidth: 15MHz / NTV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	15.039	15.048	14.963	/	Pass
16QAM	75	0	14.913	14.927	14.969	/	Pass
64QAM	75	0	14.901	14.975	14.985	/	Pass
Band: 2 / Bandwidth: 20MHz / NTV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	19.830	19.863	19.905	/	Pass
16QAM	100	0	19.775	19.765	19.921	/	Pass
64QAM	100	0	19.768	19.751	19.786	/	Pass

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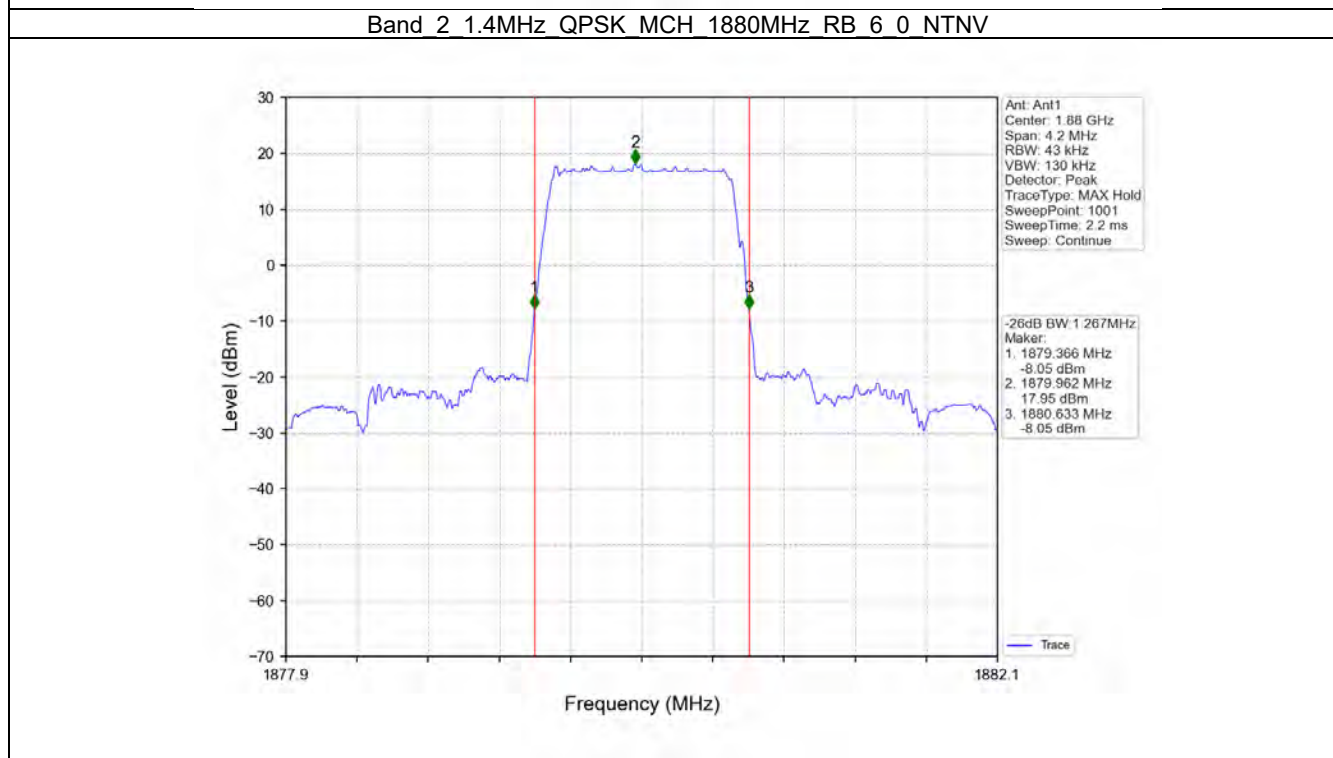
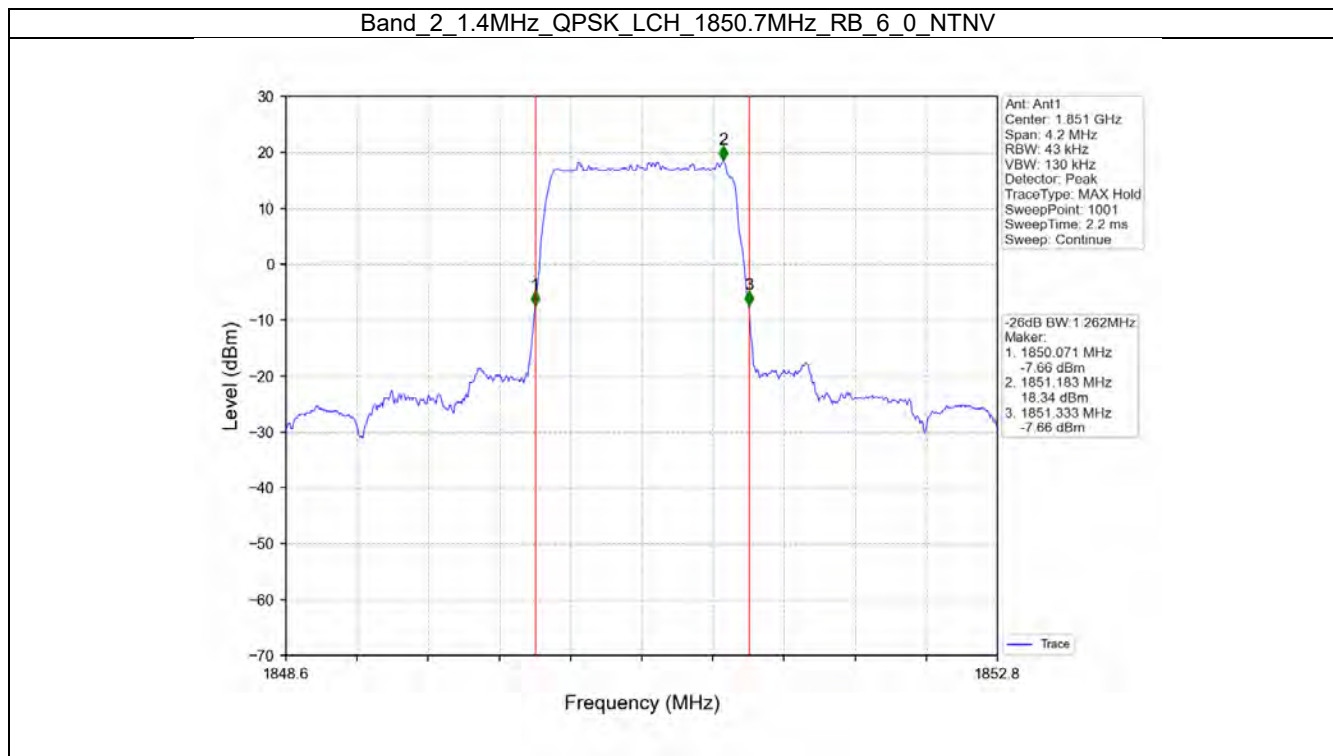
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2.6.2 Test Graph



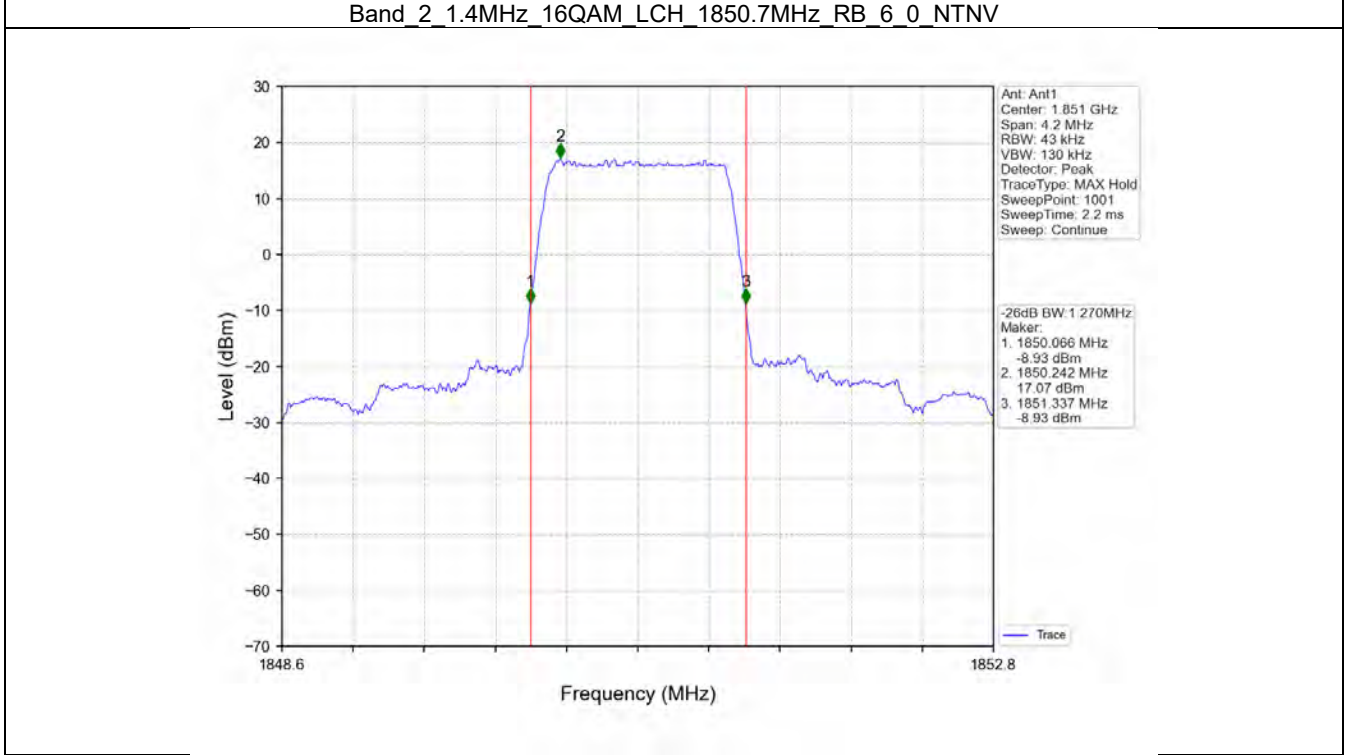
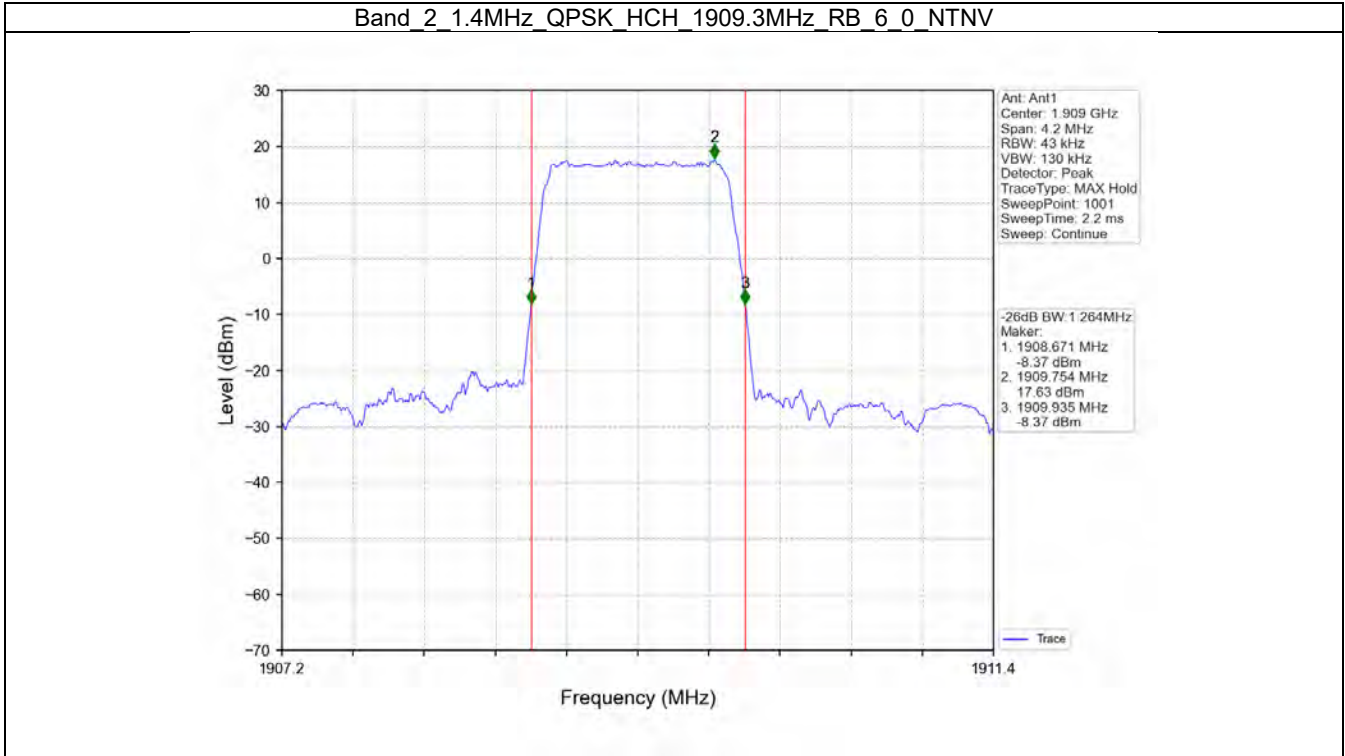
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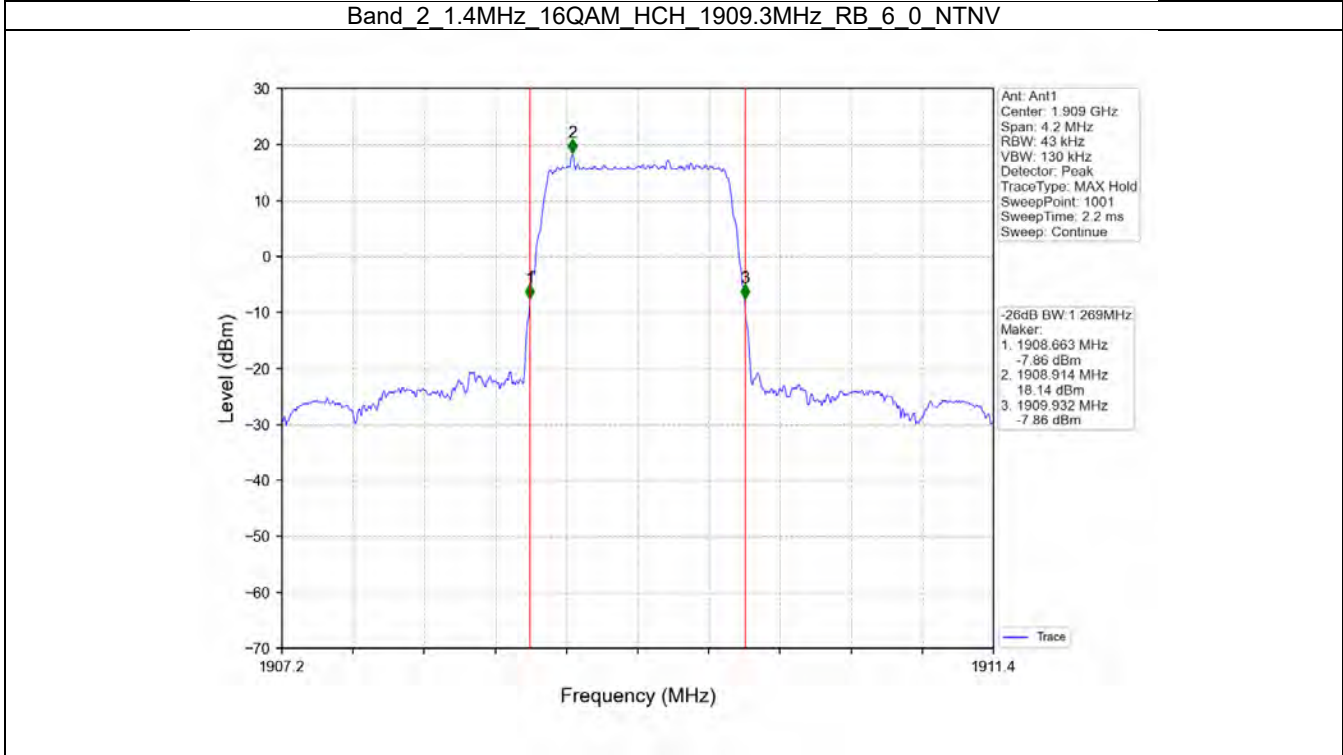
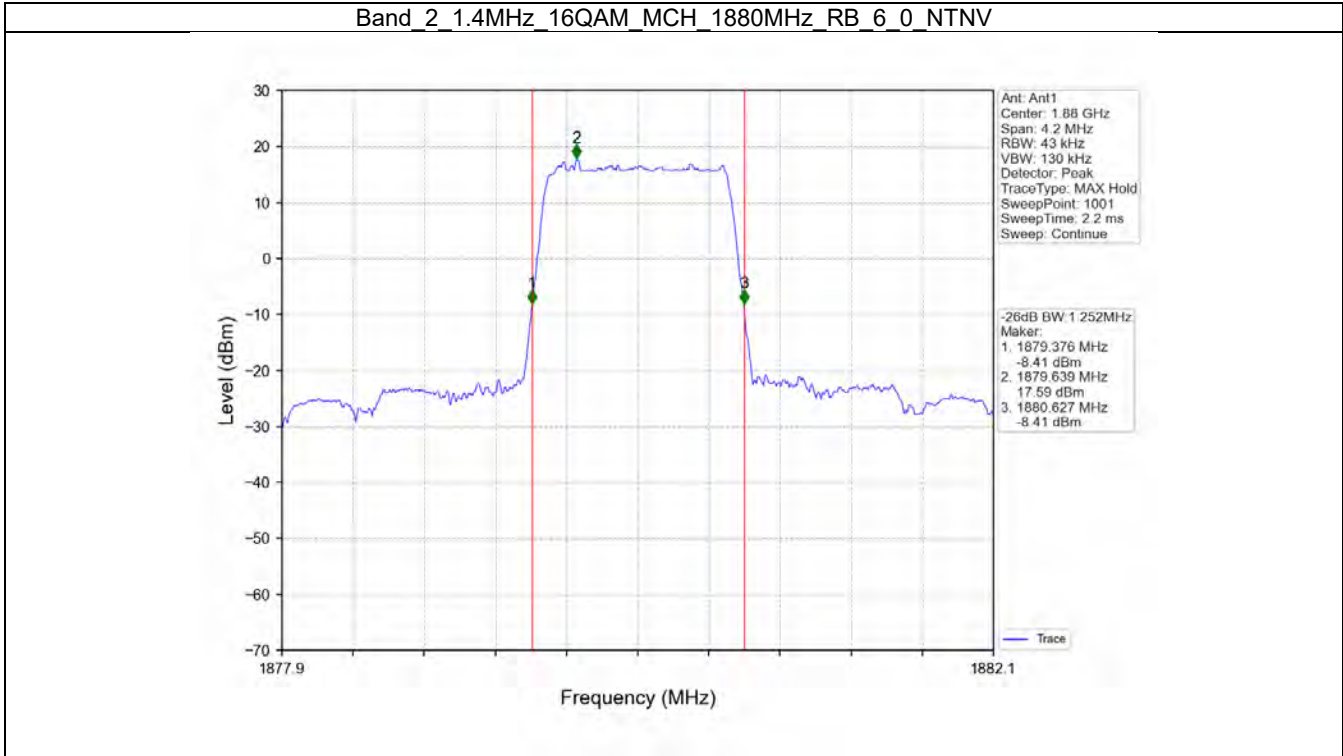
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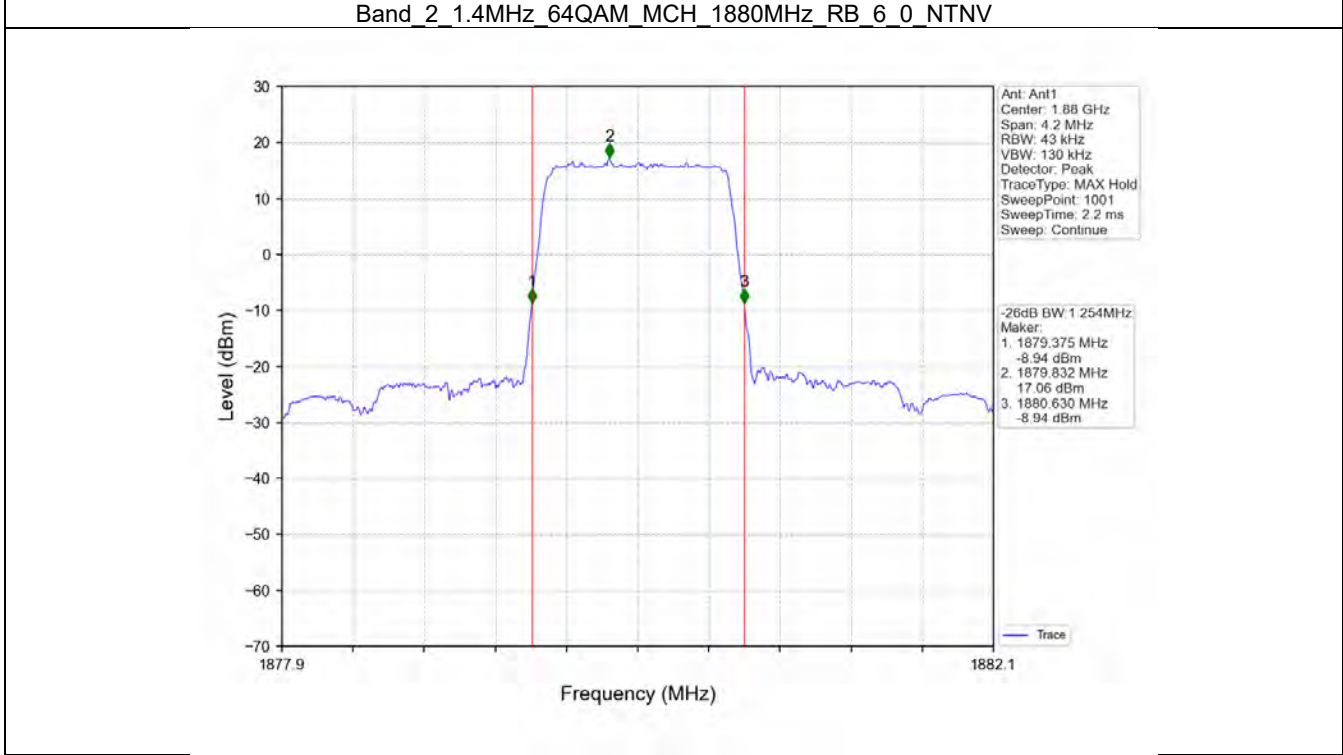
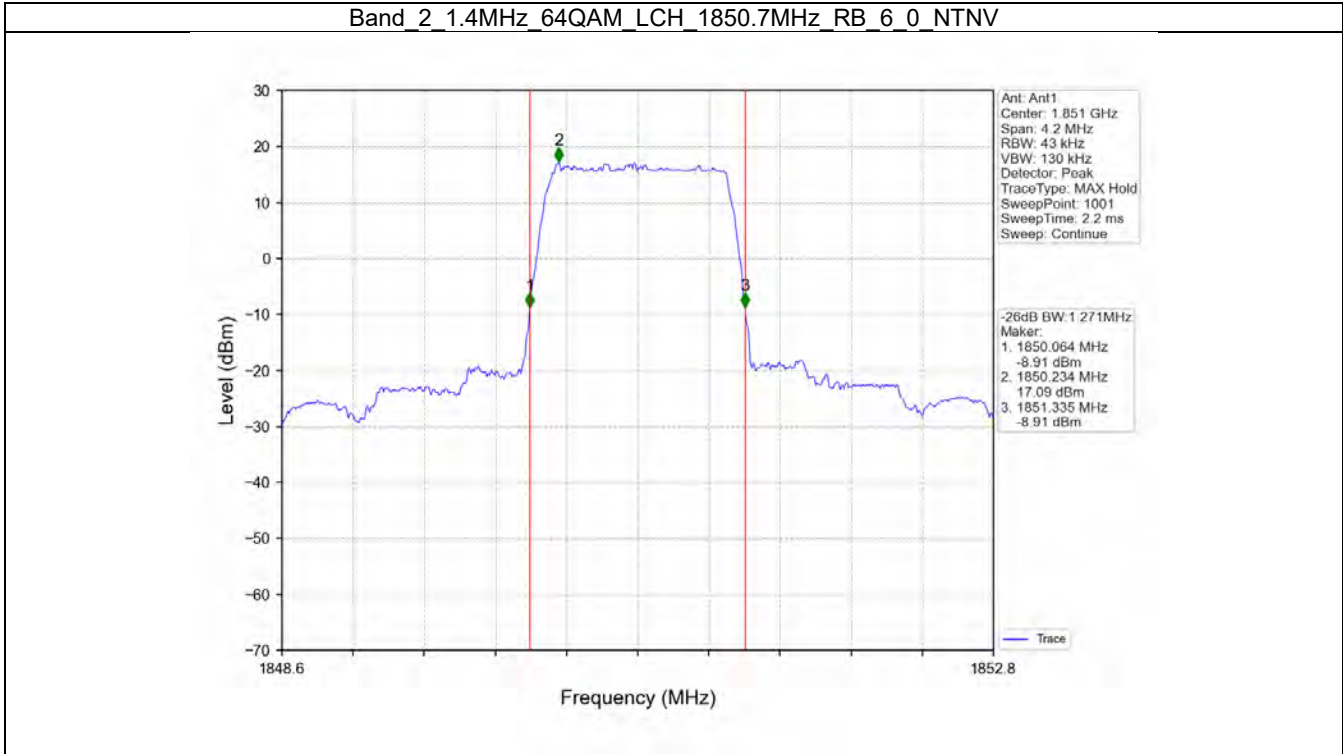
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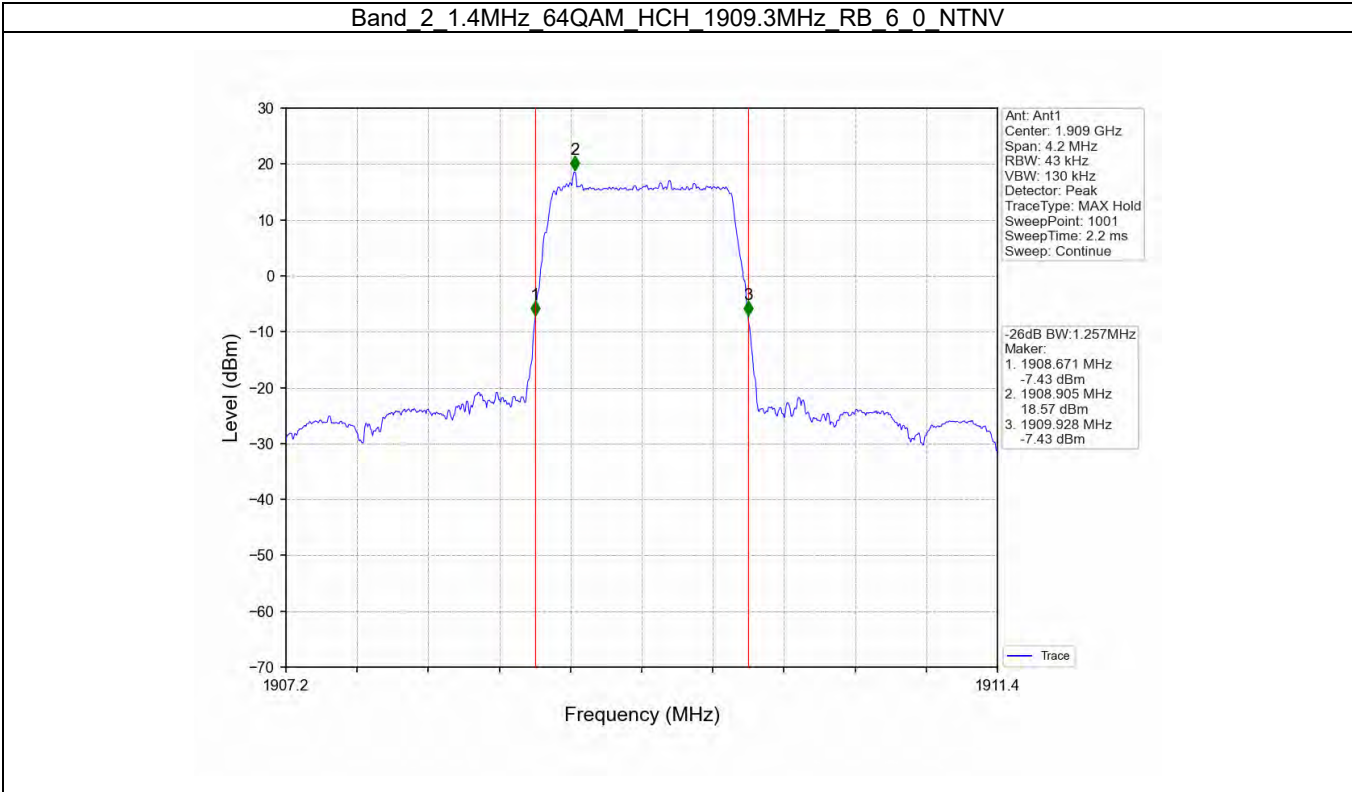
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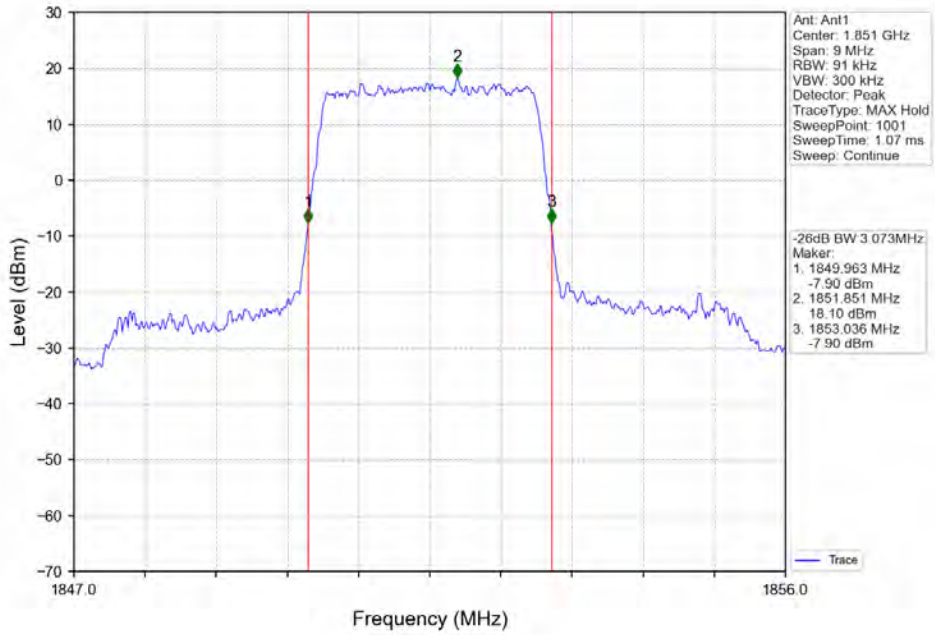
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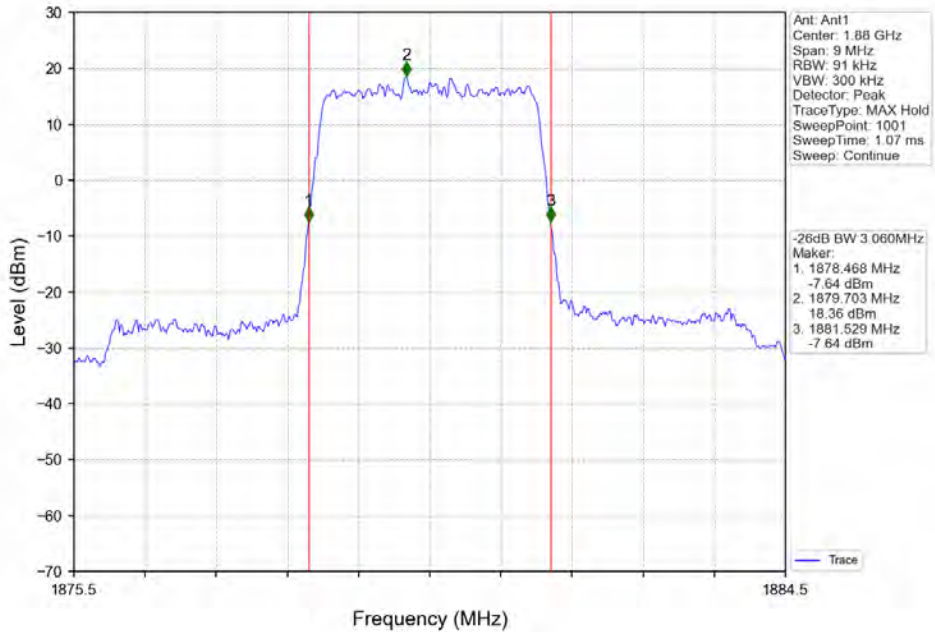




Band_2_3MHz_QPSK_LCH_1851.5MHz_RB_15_0_NTNV



Band 2 3MHz QPSK MCH 1880MHz RB 15 0 NTNv



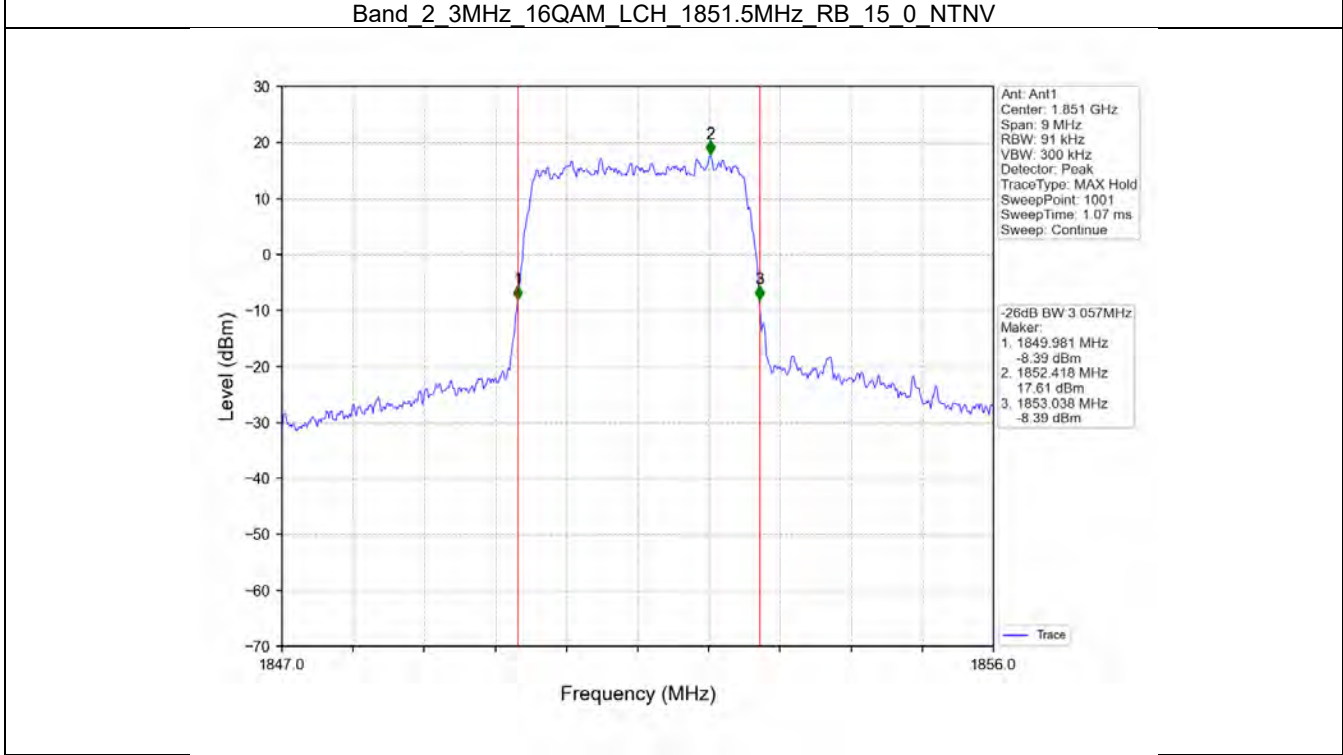
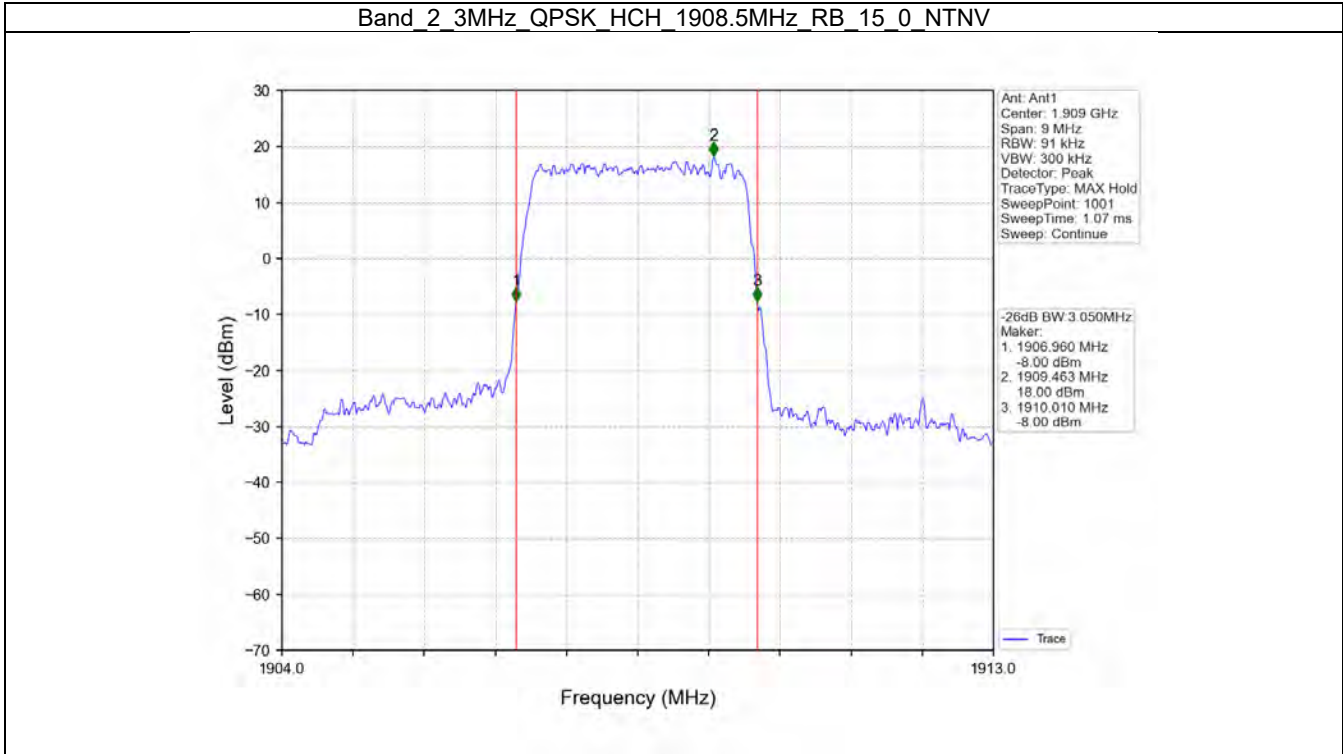
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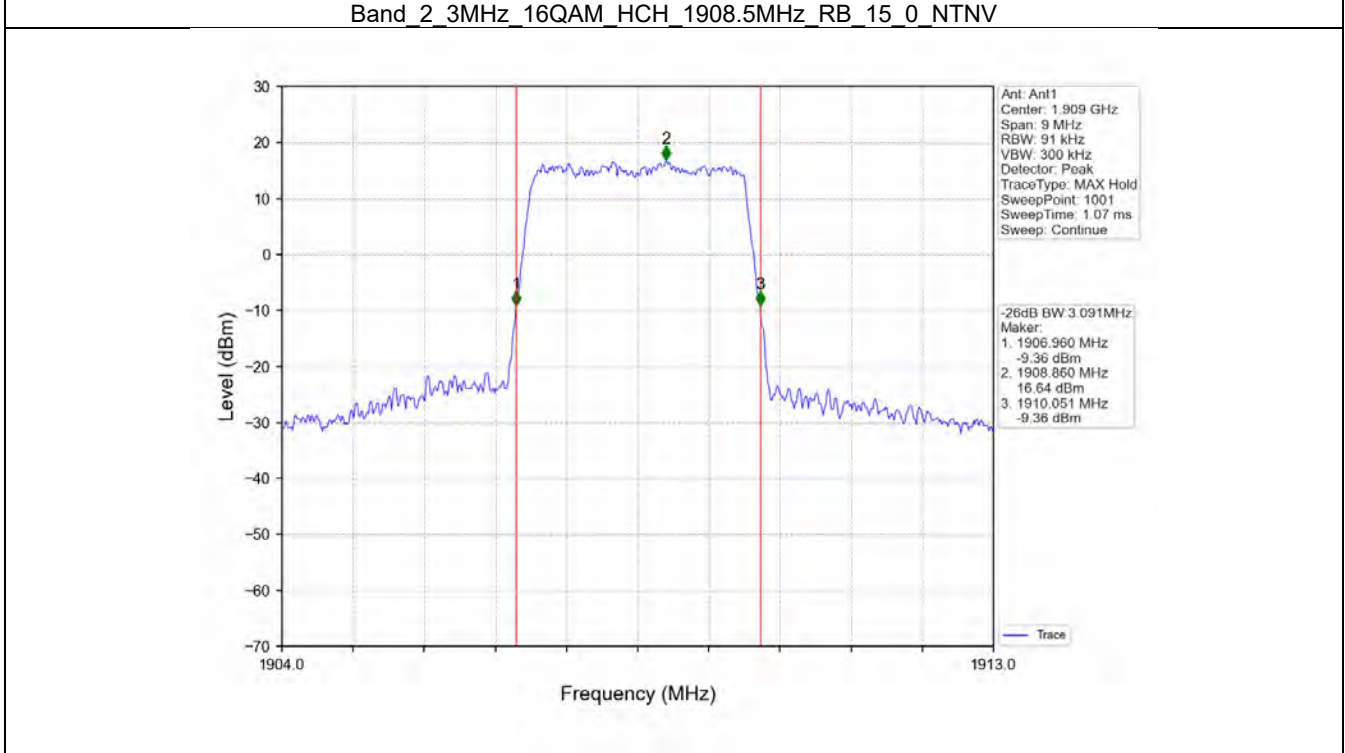
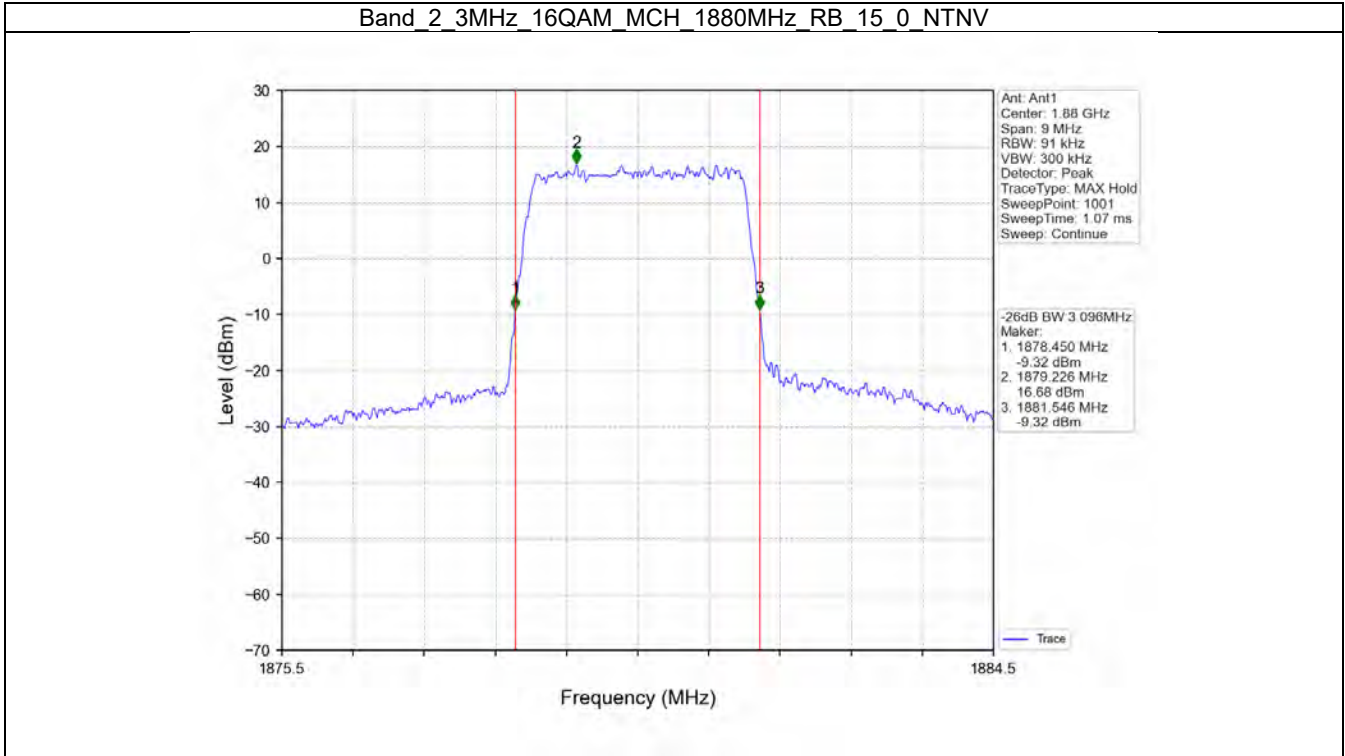
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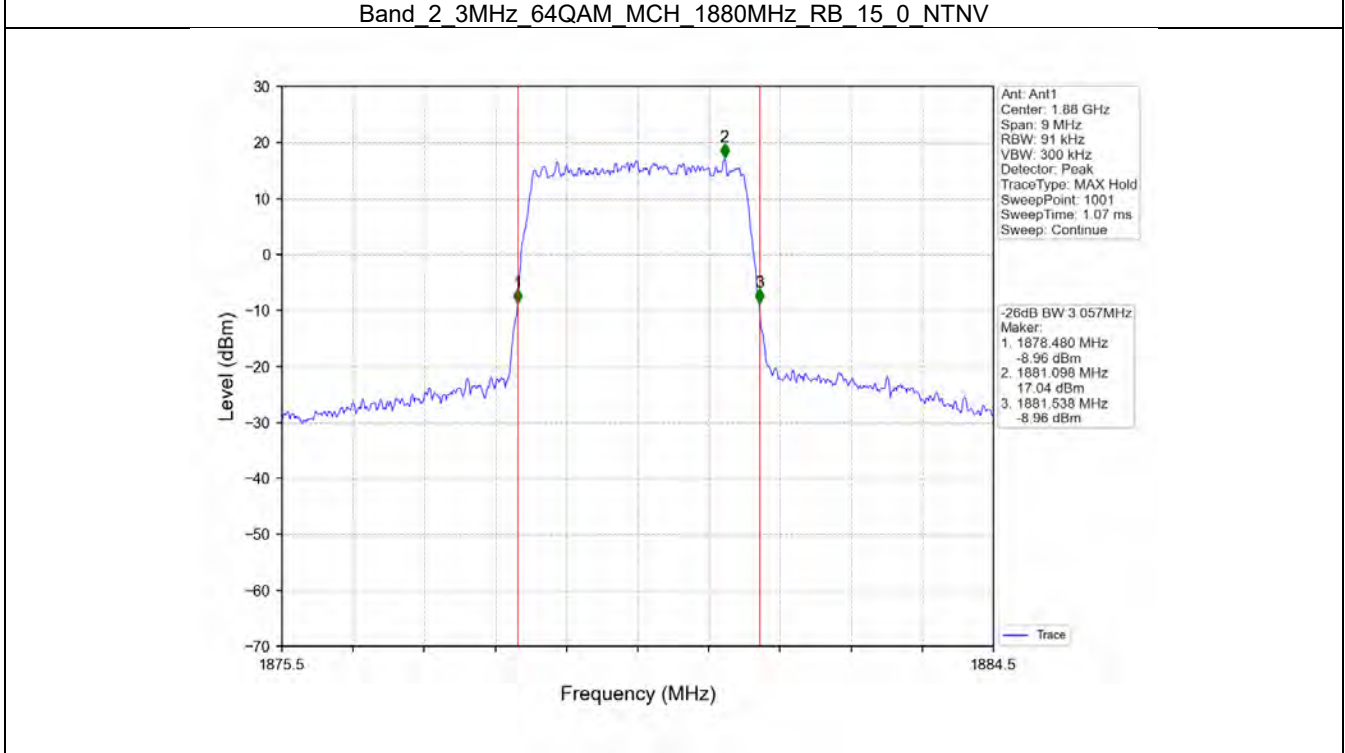
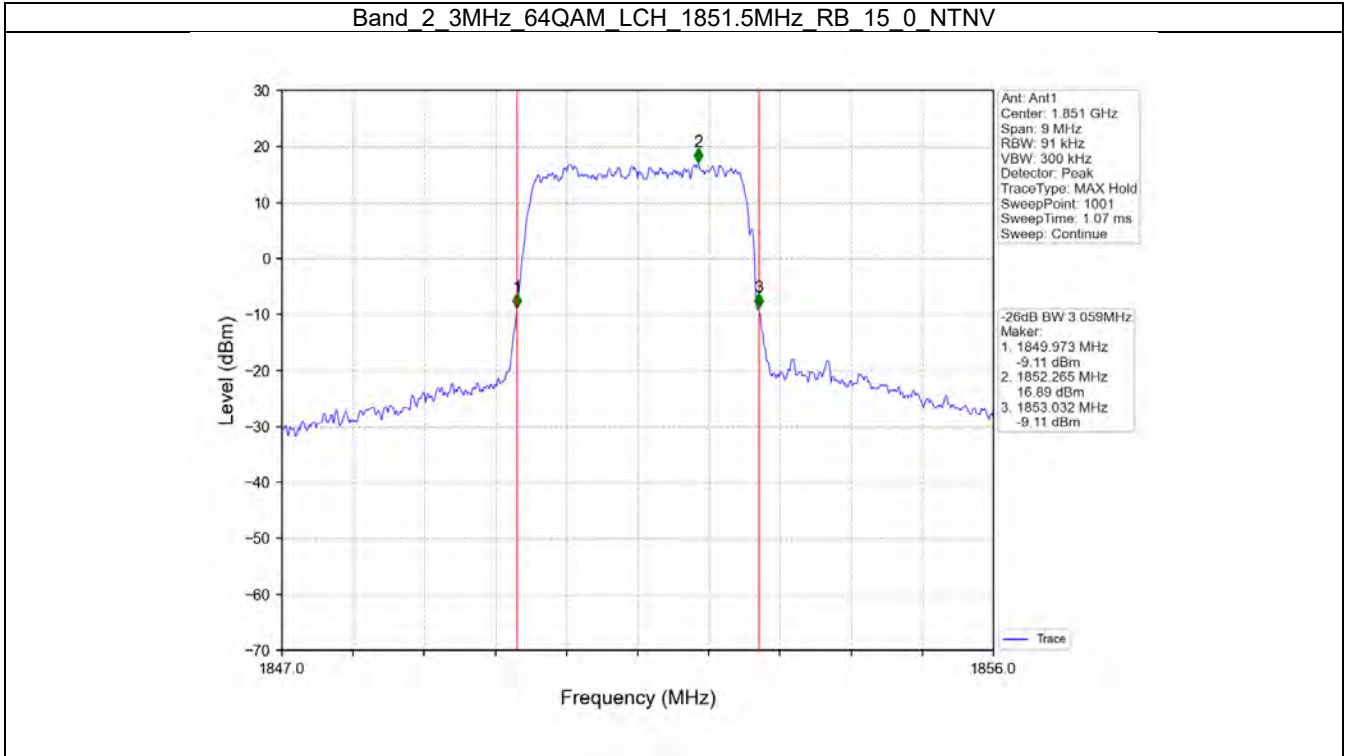
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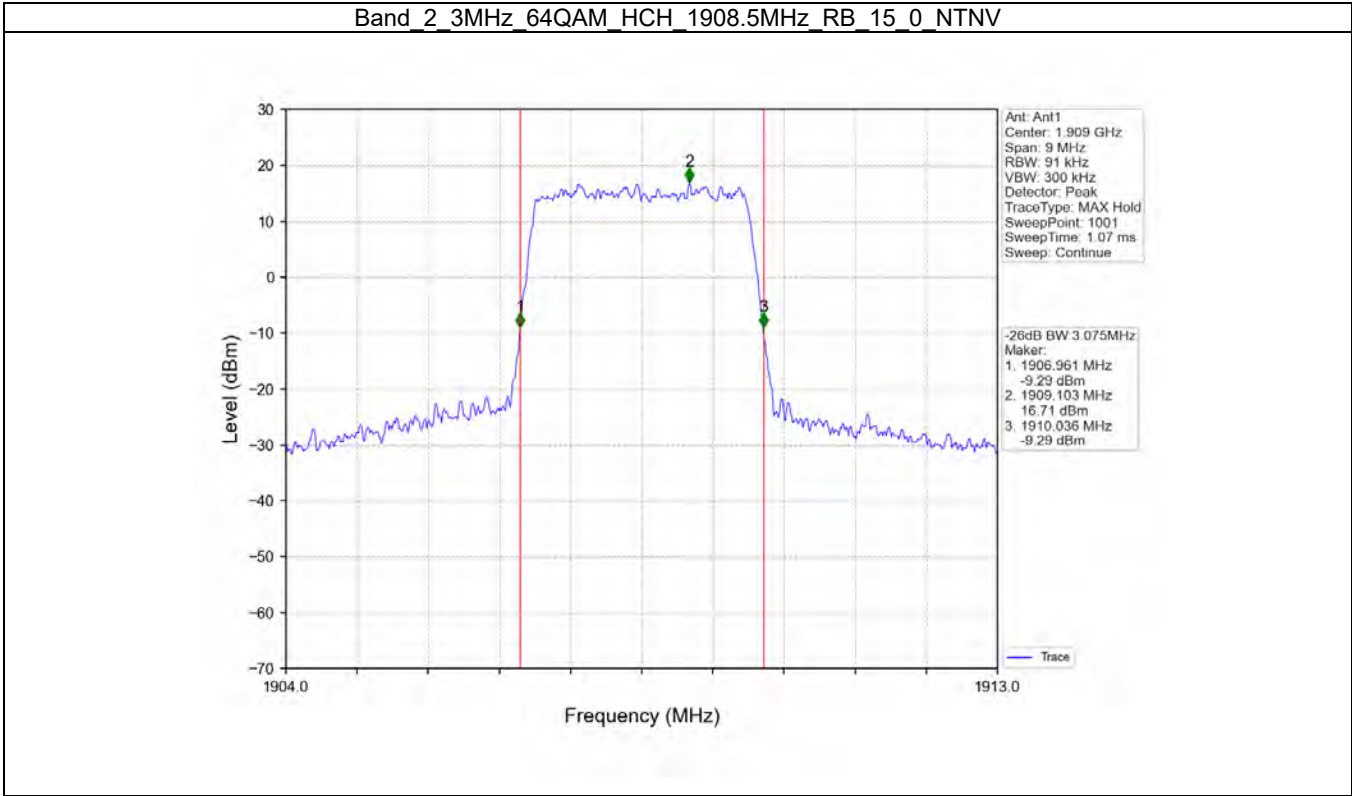
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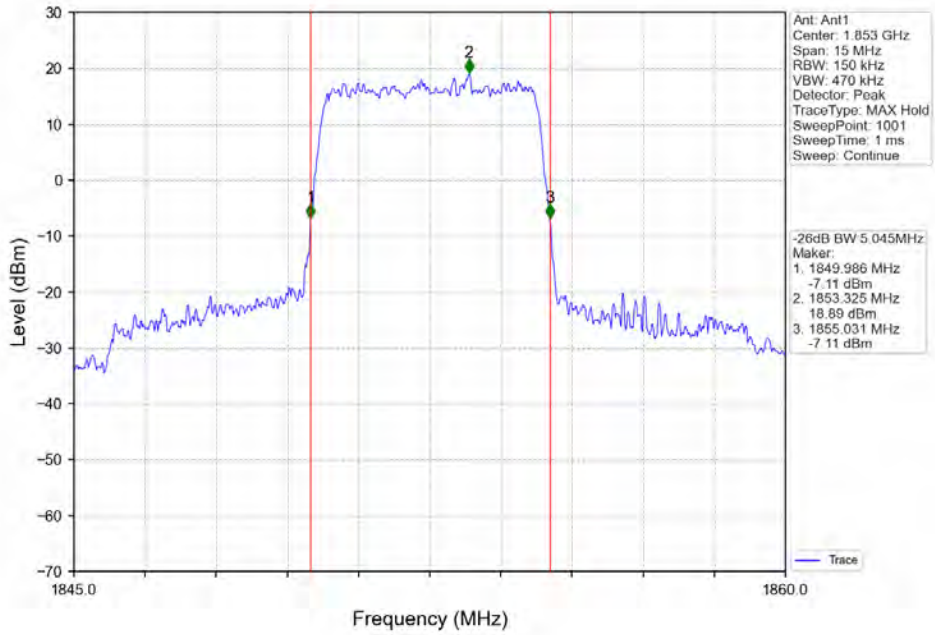
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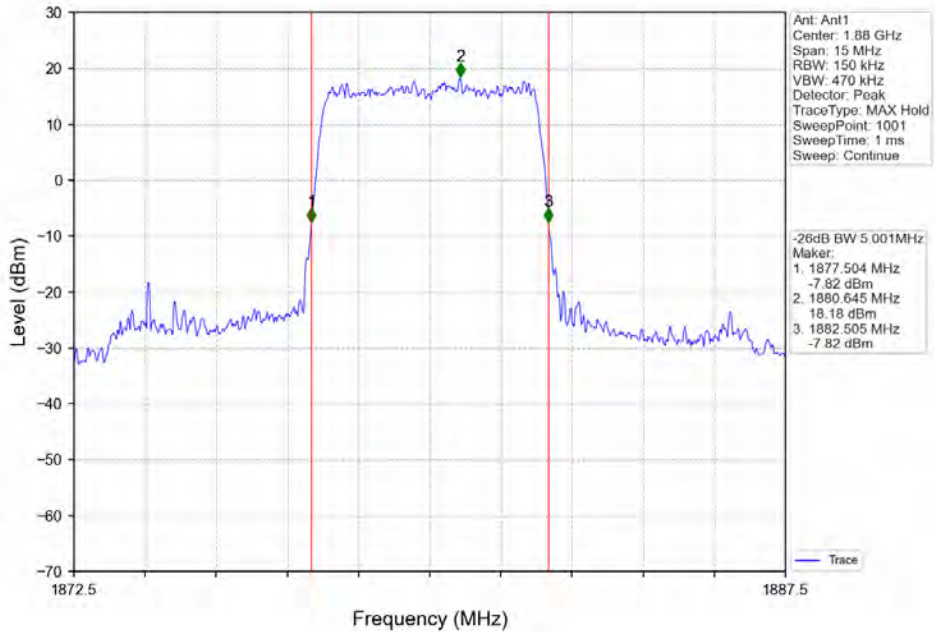




Band_2_5MHz_QPSK_LCH_1852.5MHz_RB_25_0_NTNV



Band_2_5MHz_QPSK_MCH_1880MHz_RB_25_0_NTNV



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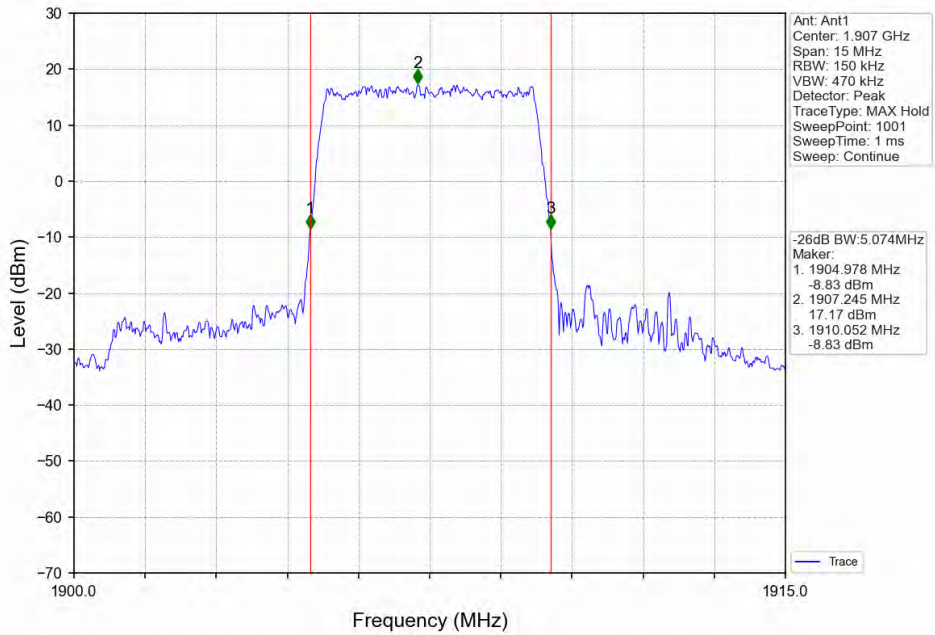
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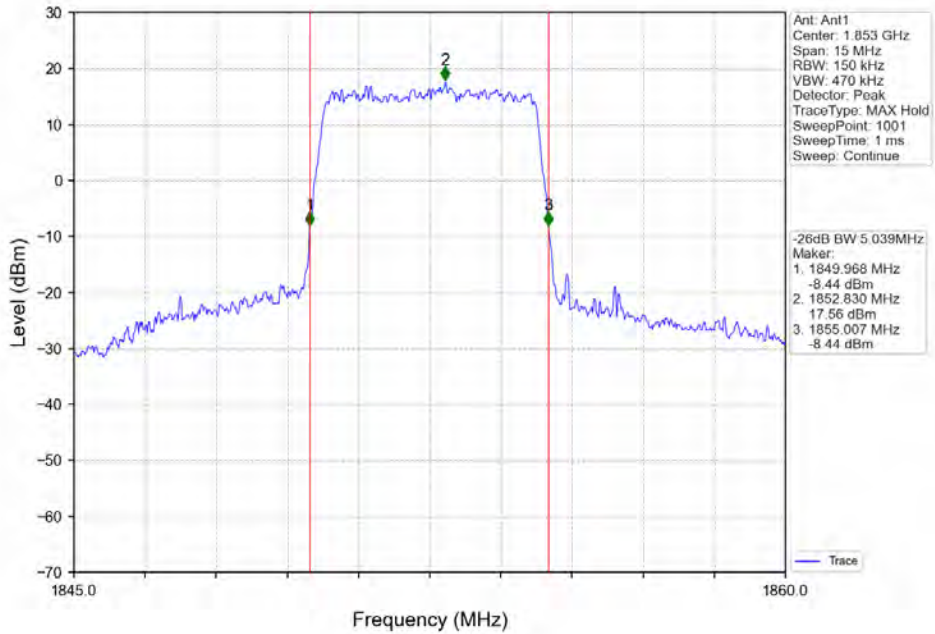
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Band 2 5MHz QPSK HCH 1907.5MHz RB 25 0 NTV



Band 2 5MHz 16QAM LCH 1852.5MHz RB 25 0 NTV



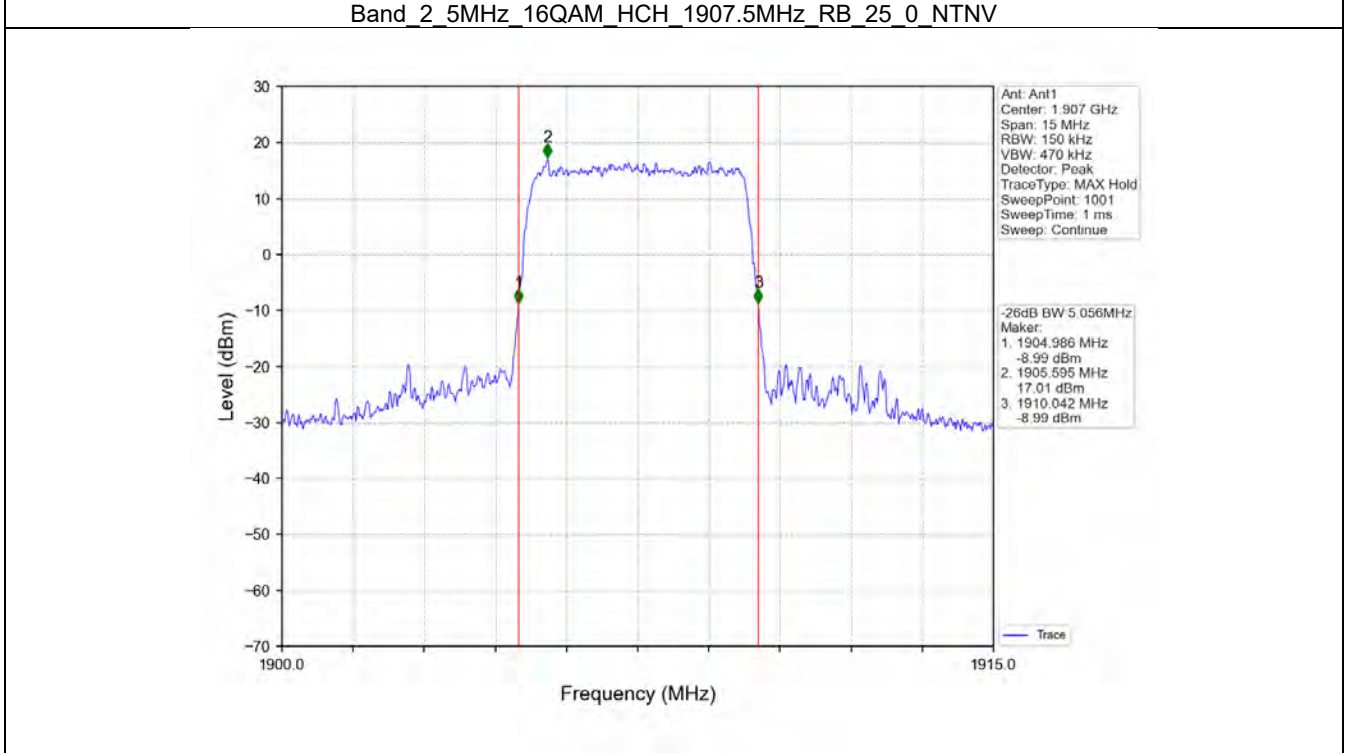
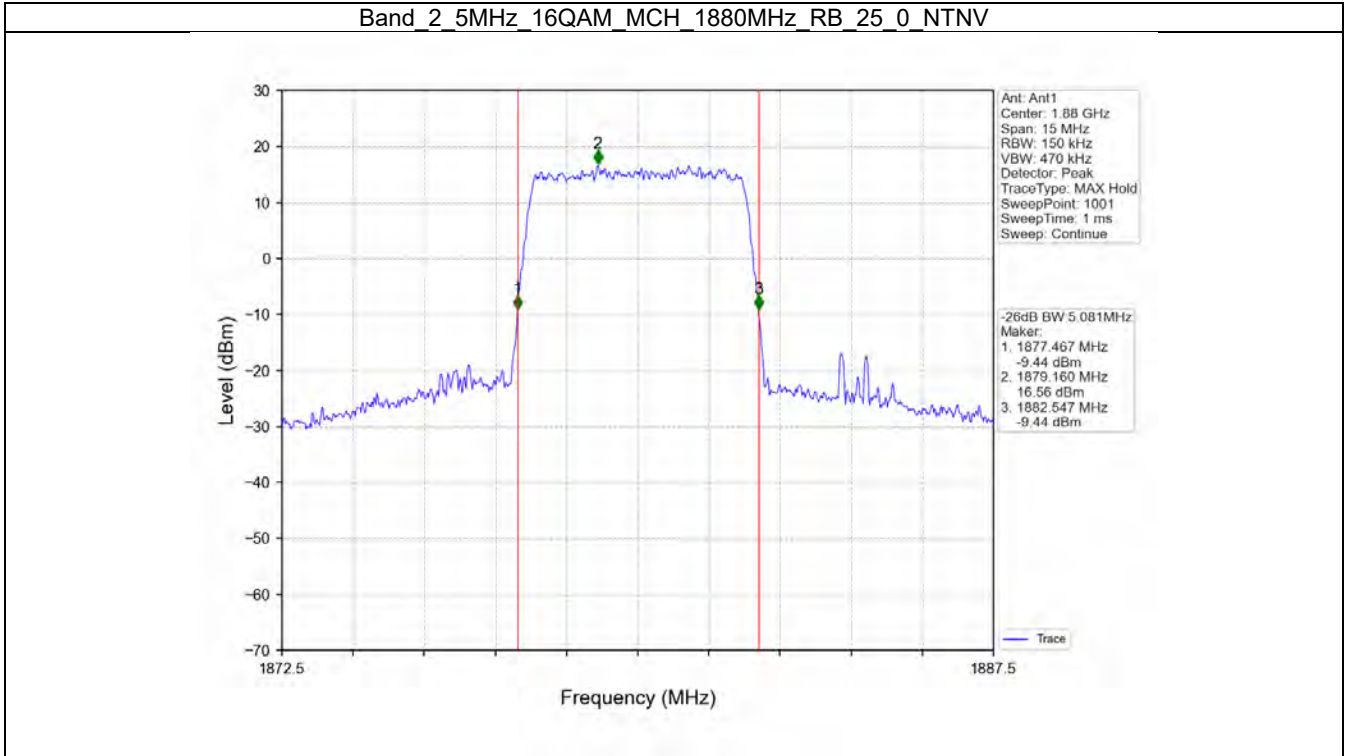
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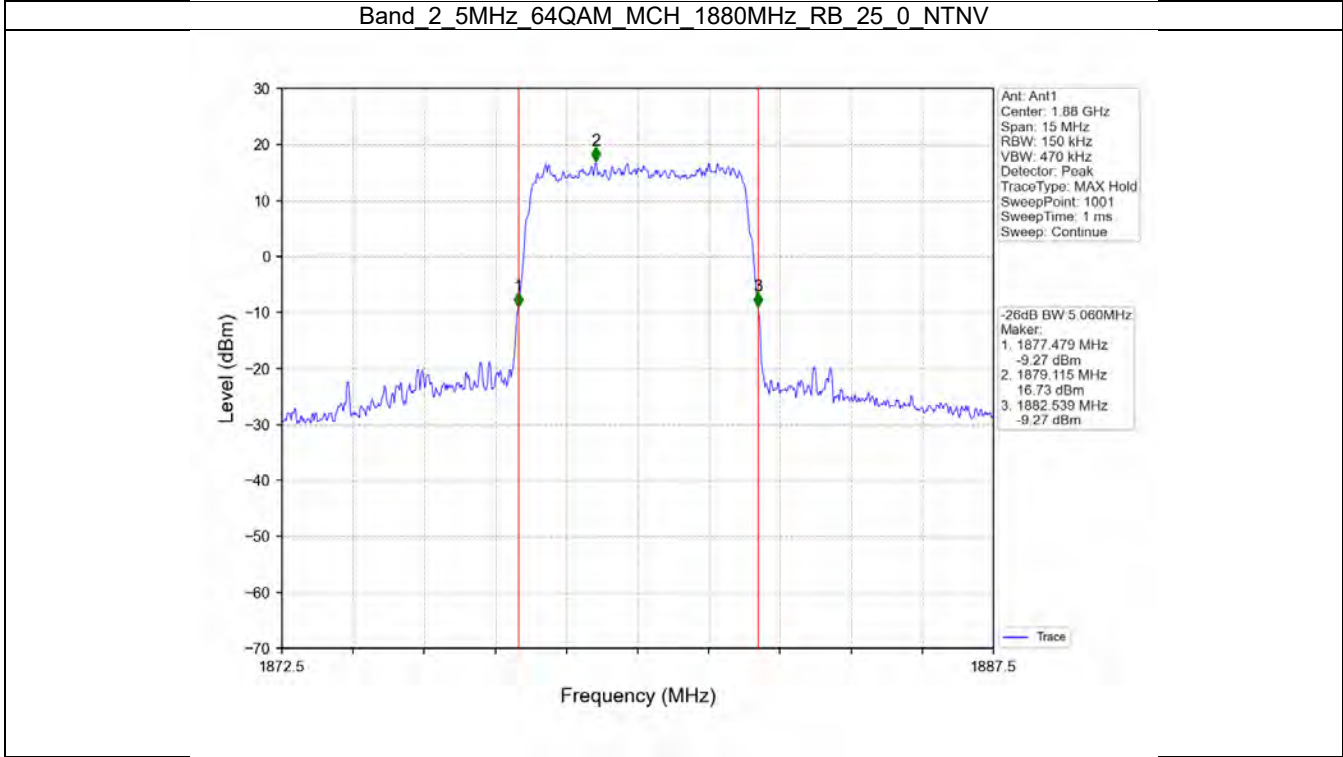
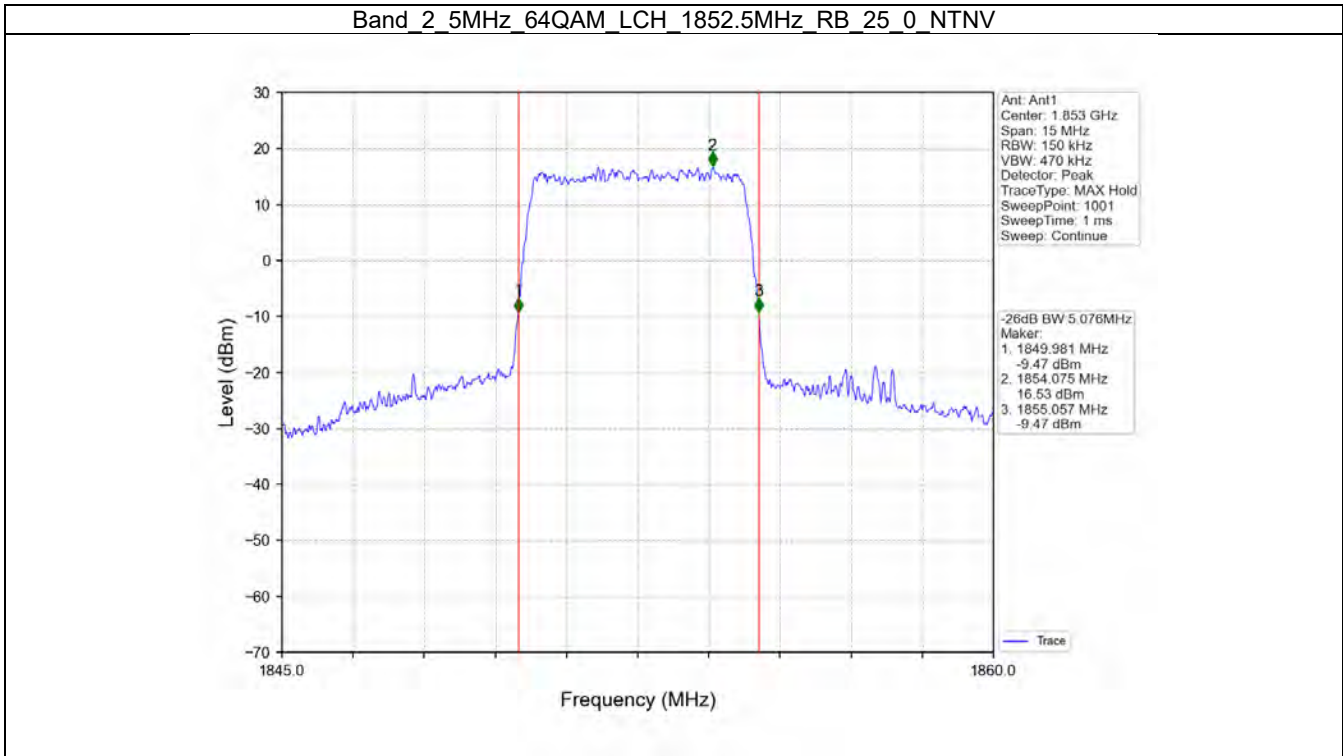
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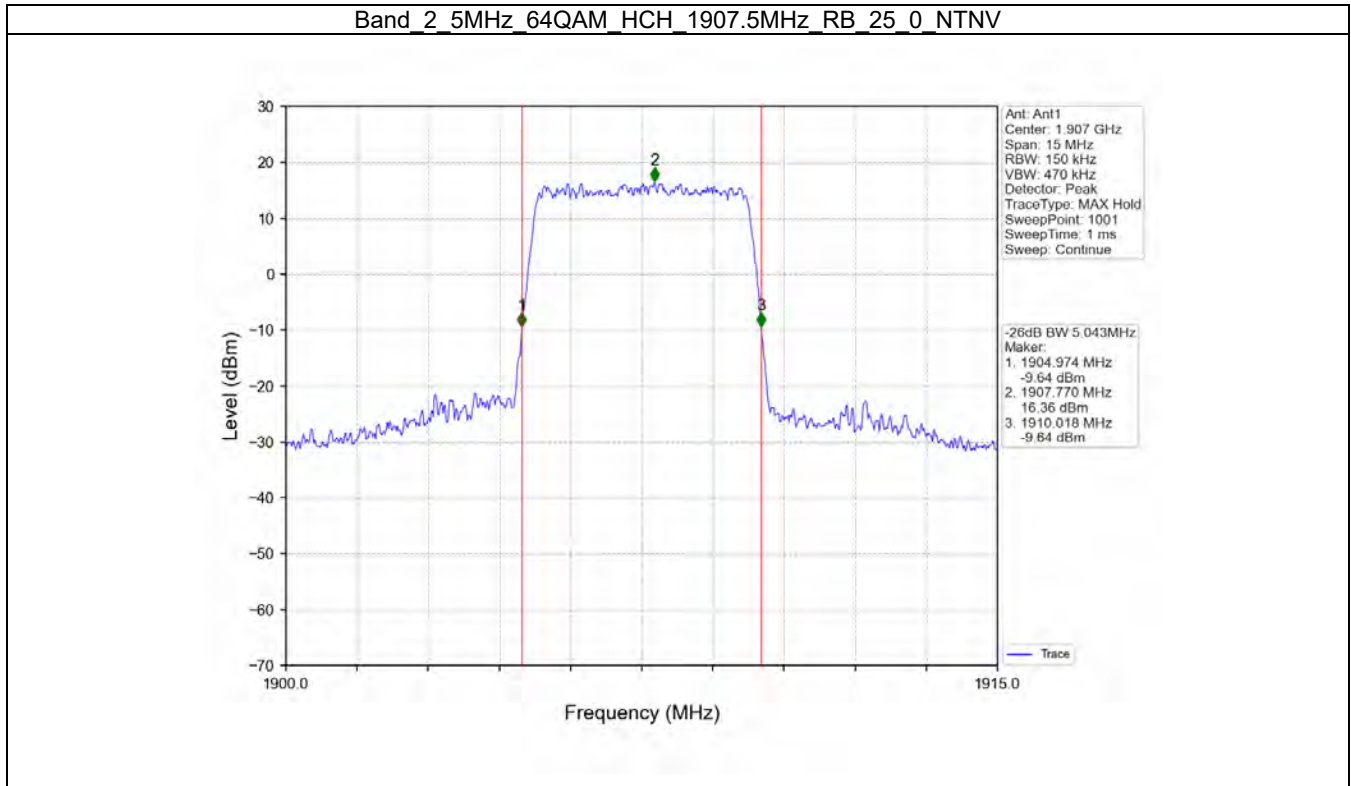
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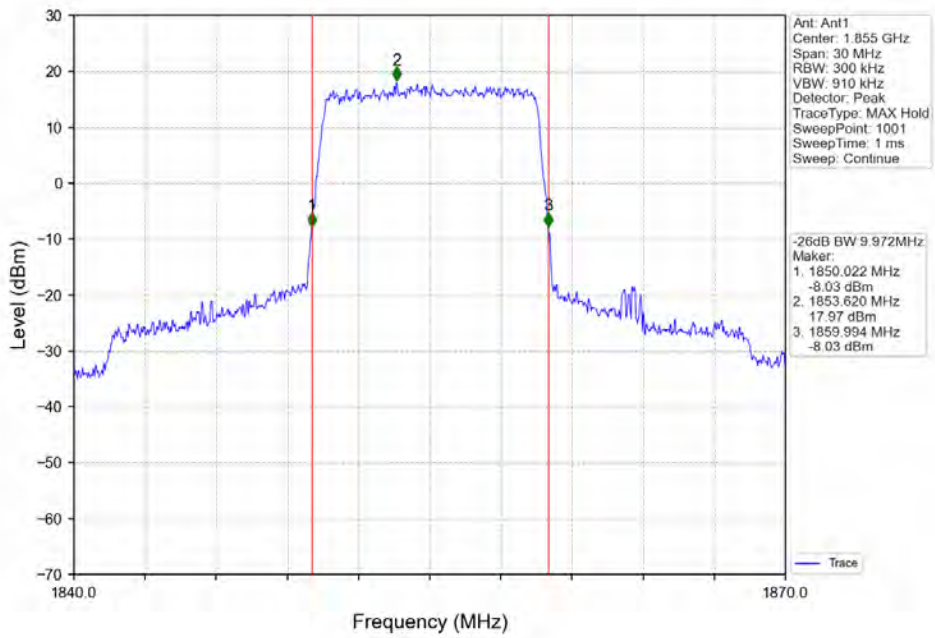
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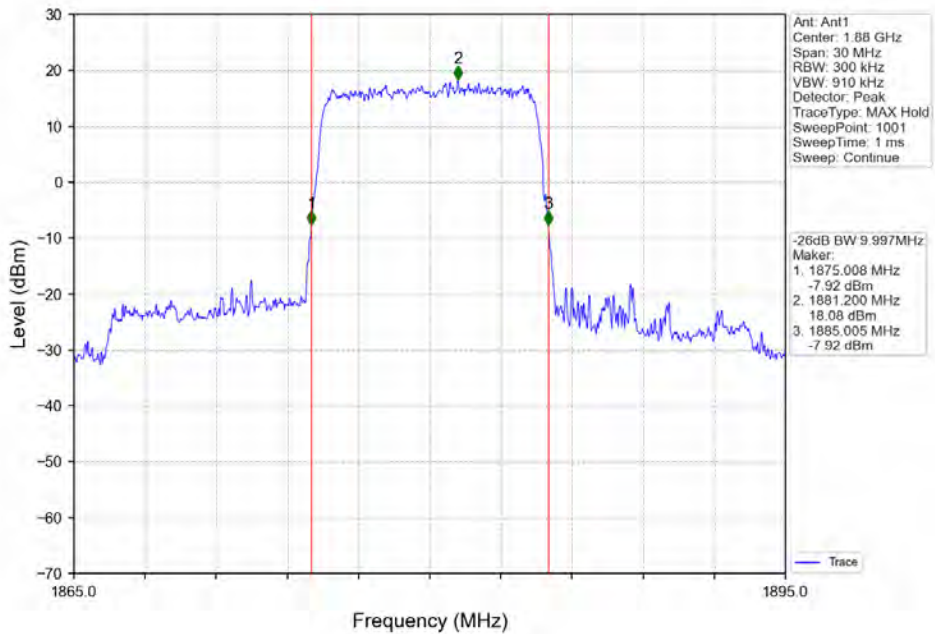




Band_2_10MHz_QPSK_LCH_1855MHz_RB_50_0_NTNV



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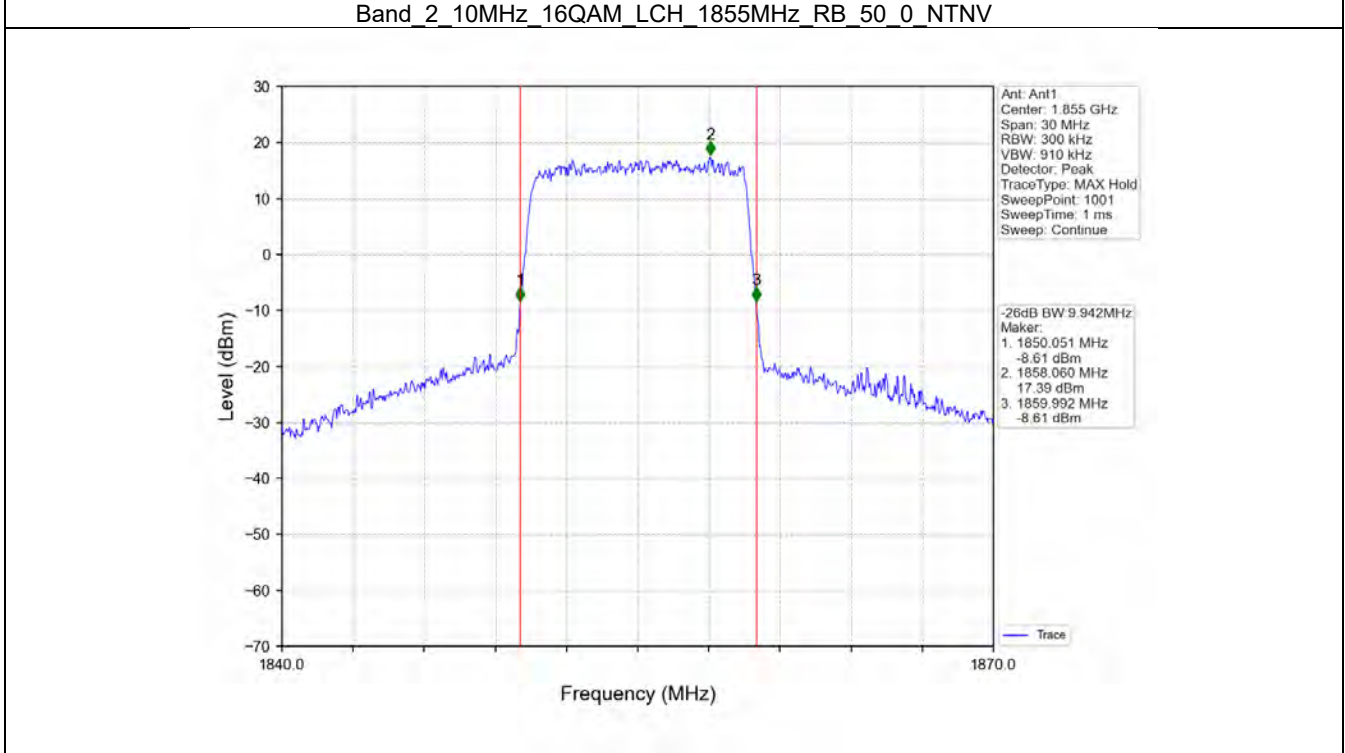
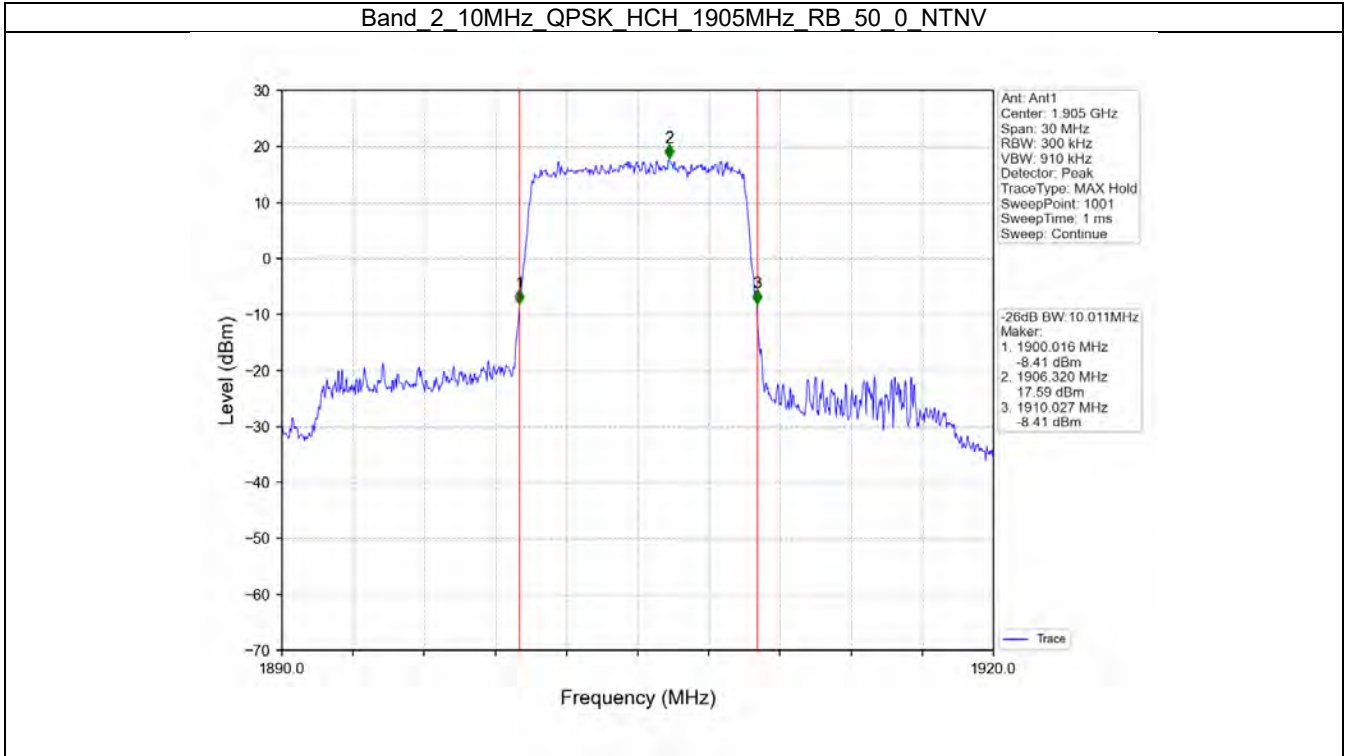
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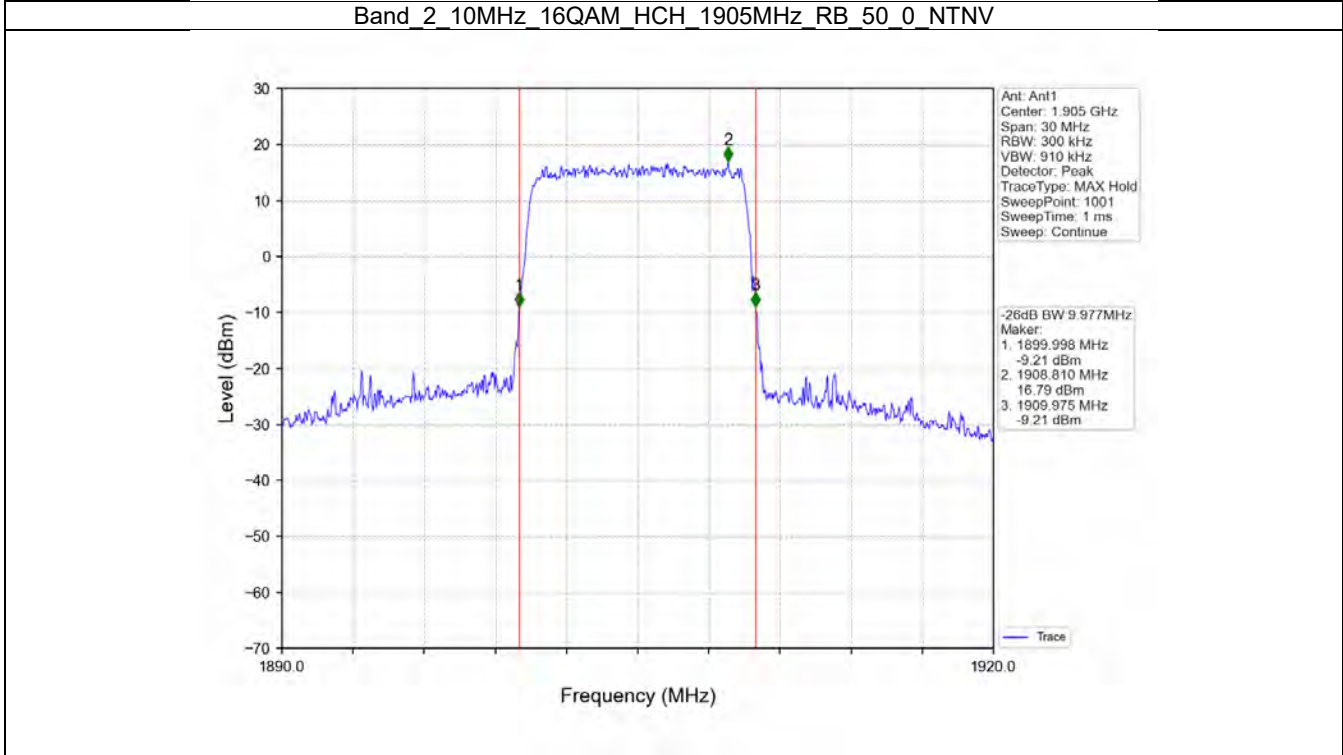
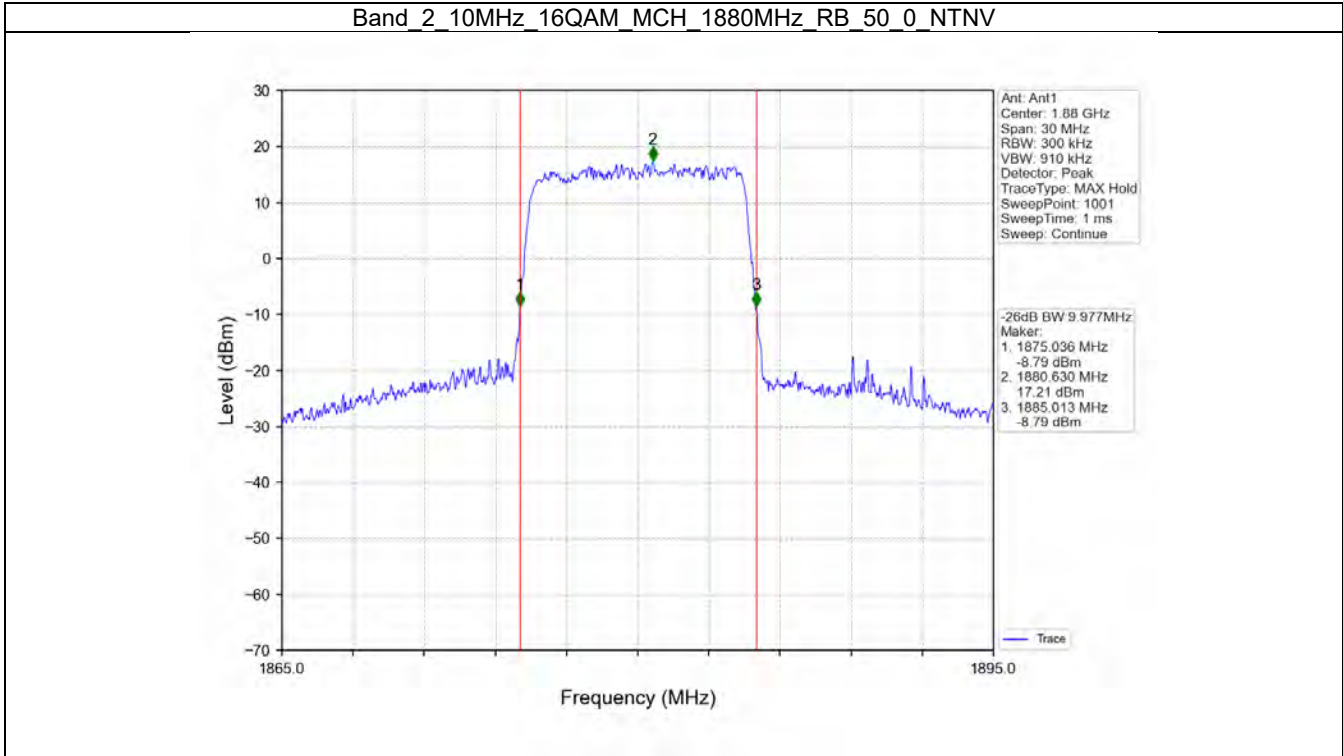
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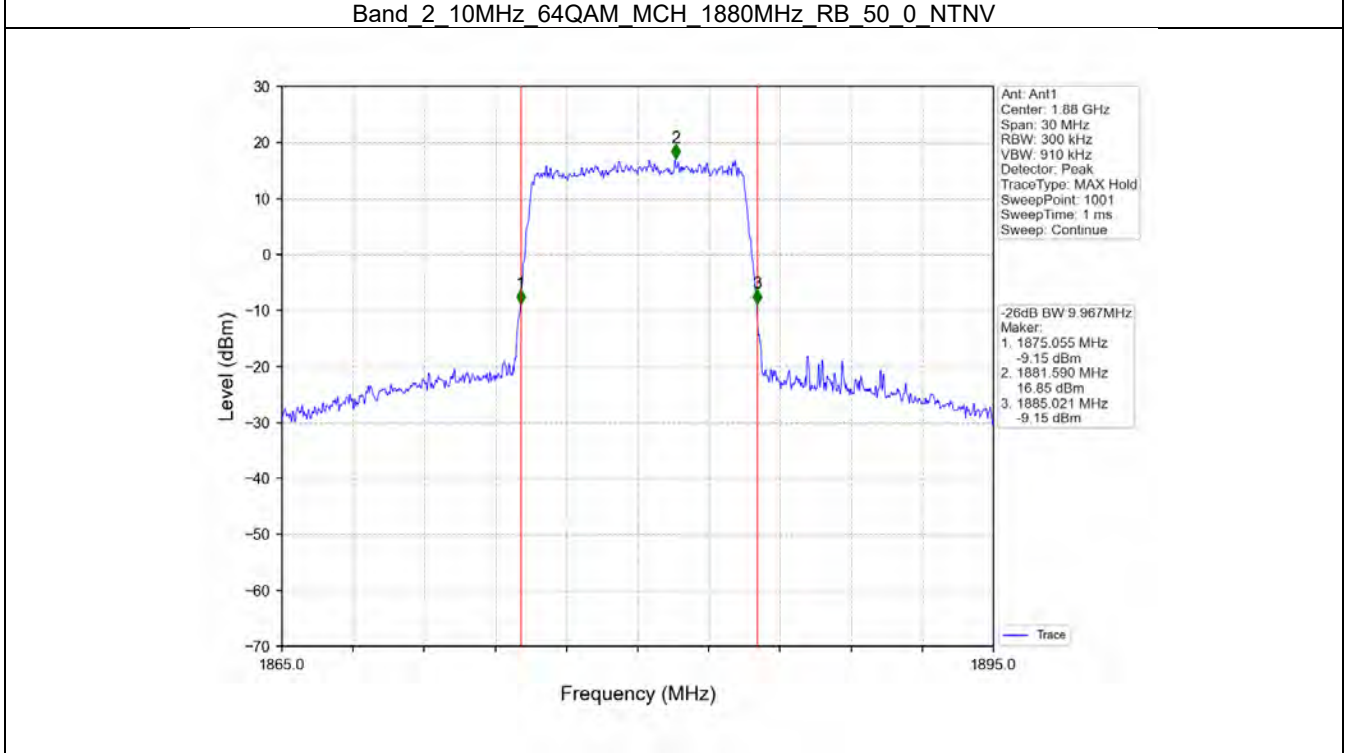
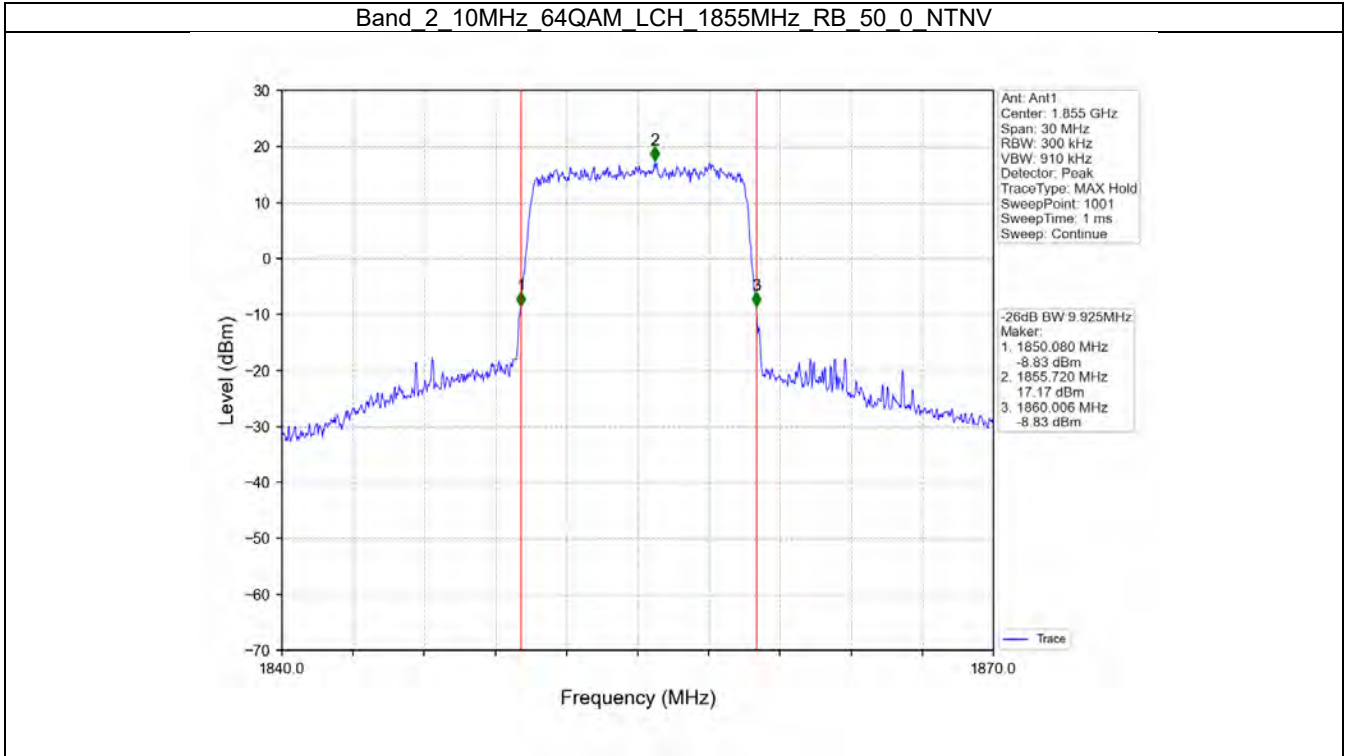
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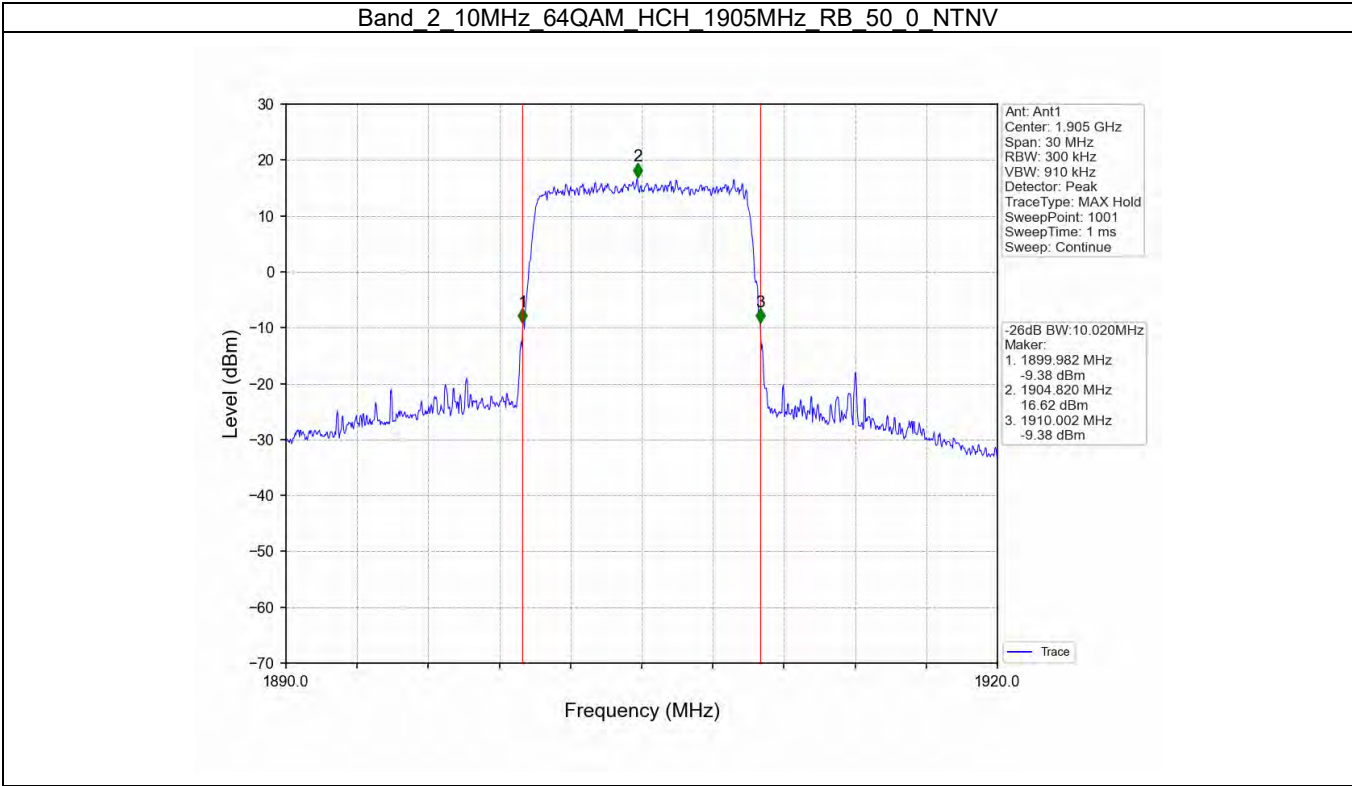
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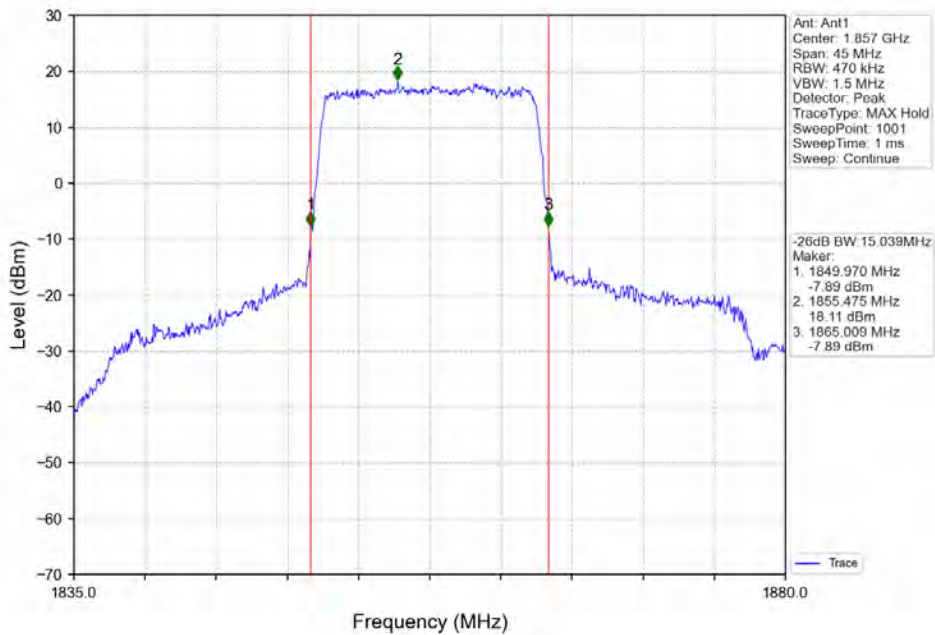
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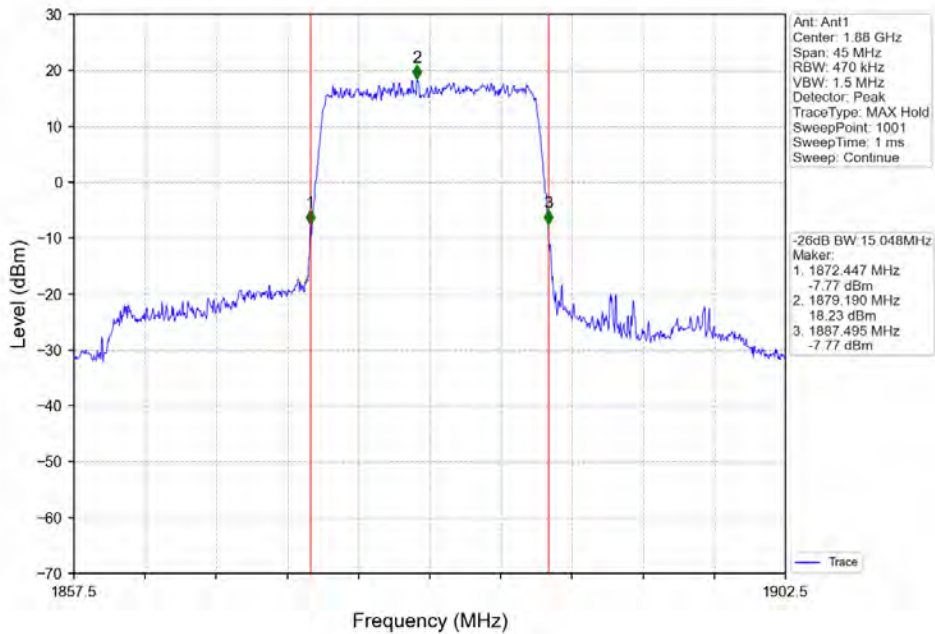
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Band_2_15MHz_QPSK_LCH_1857.5MHz_RB_75_0_NTNV



Band_2_15MHz_QPSK_MCH_1880MHz_RB_75_0_NTNV



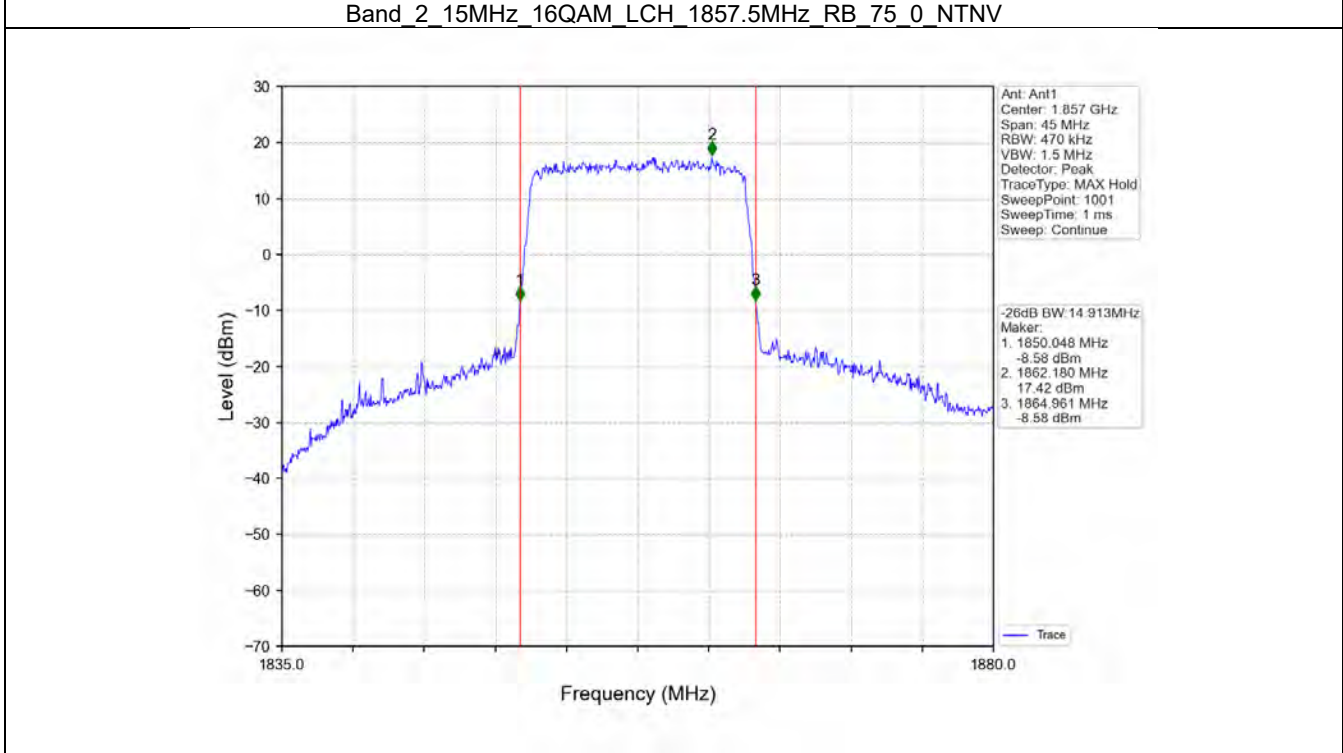
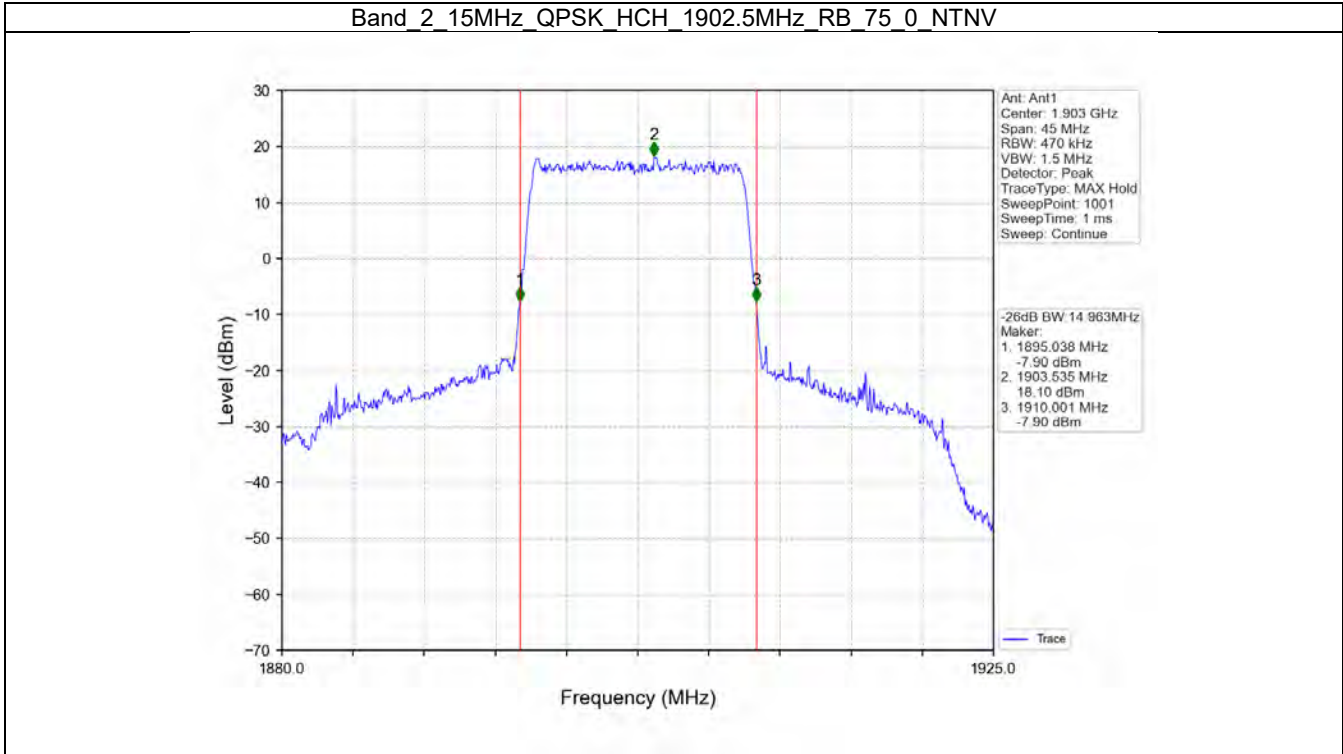
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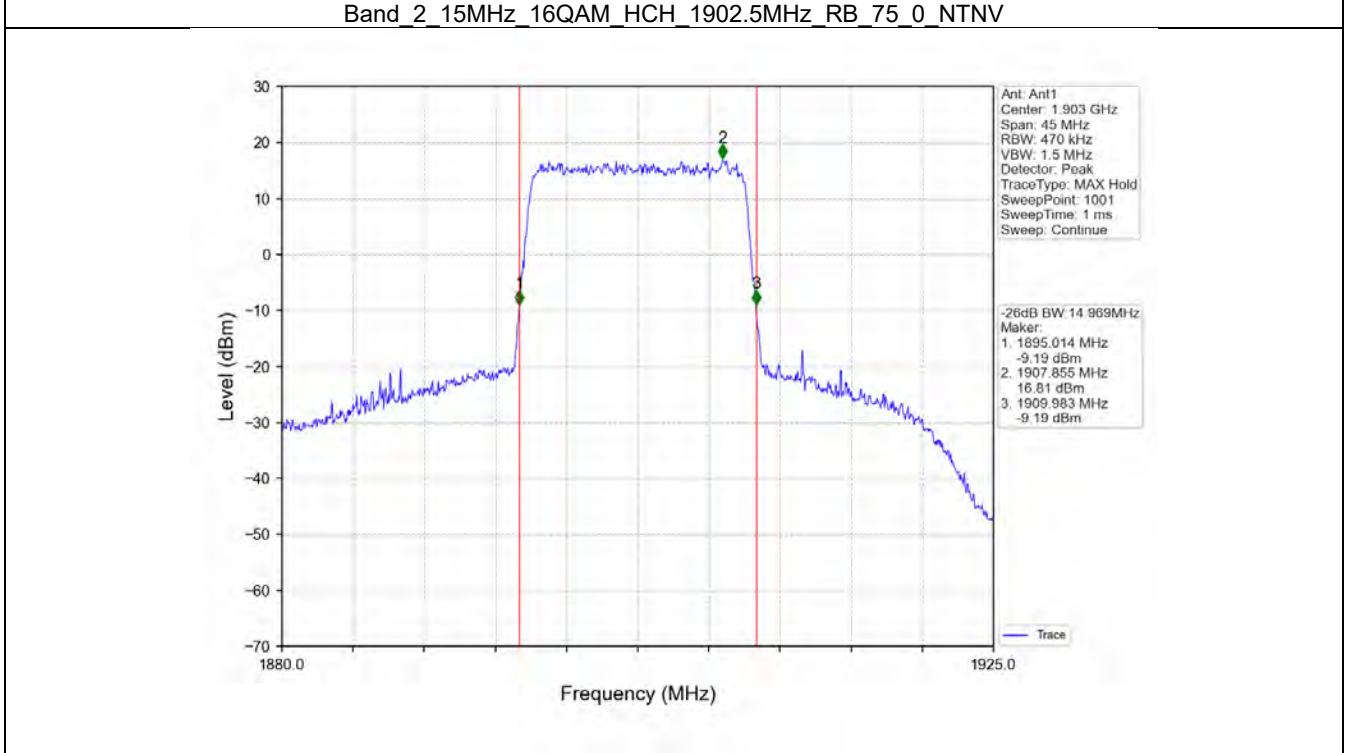
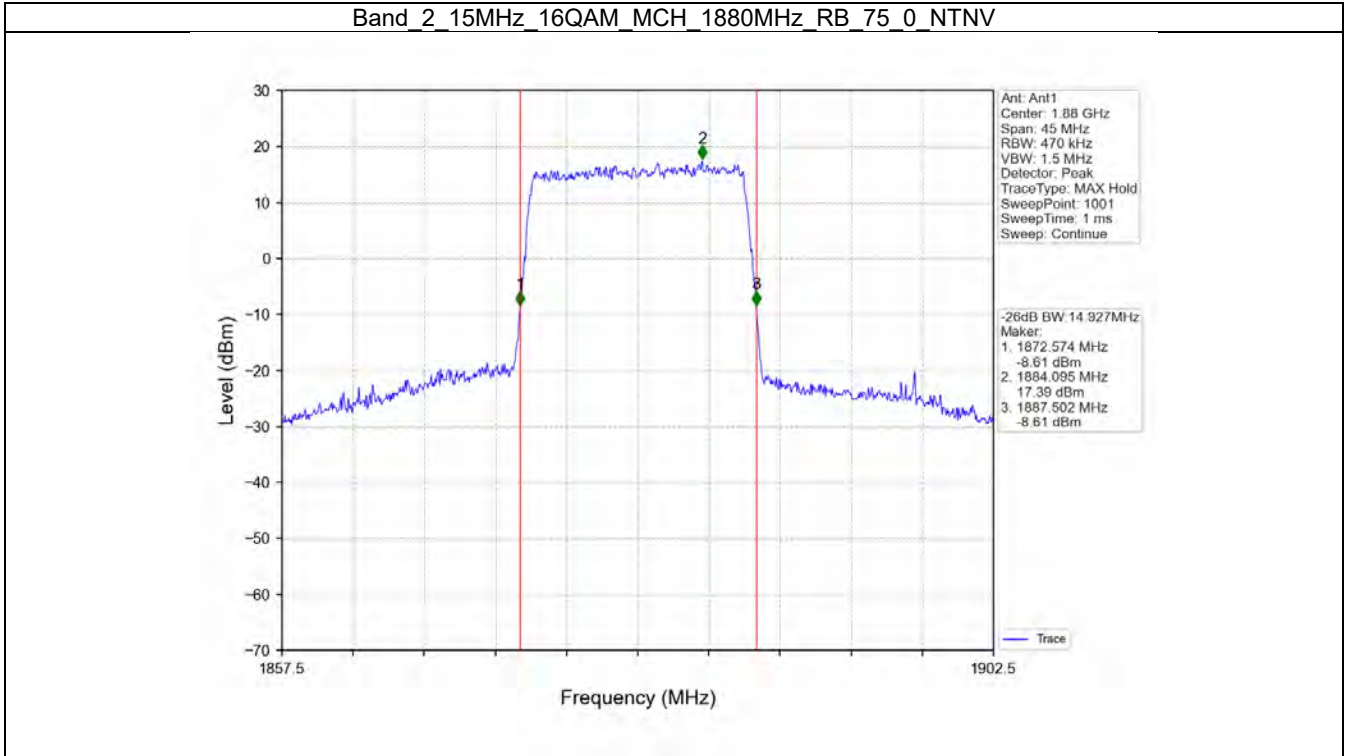
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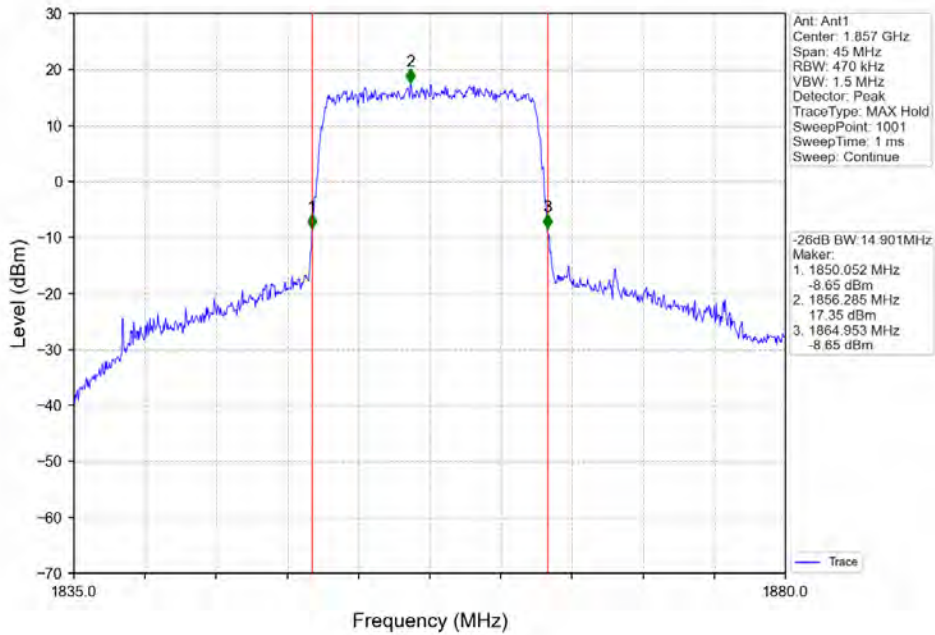
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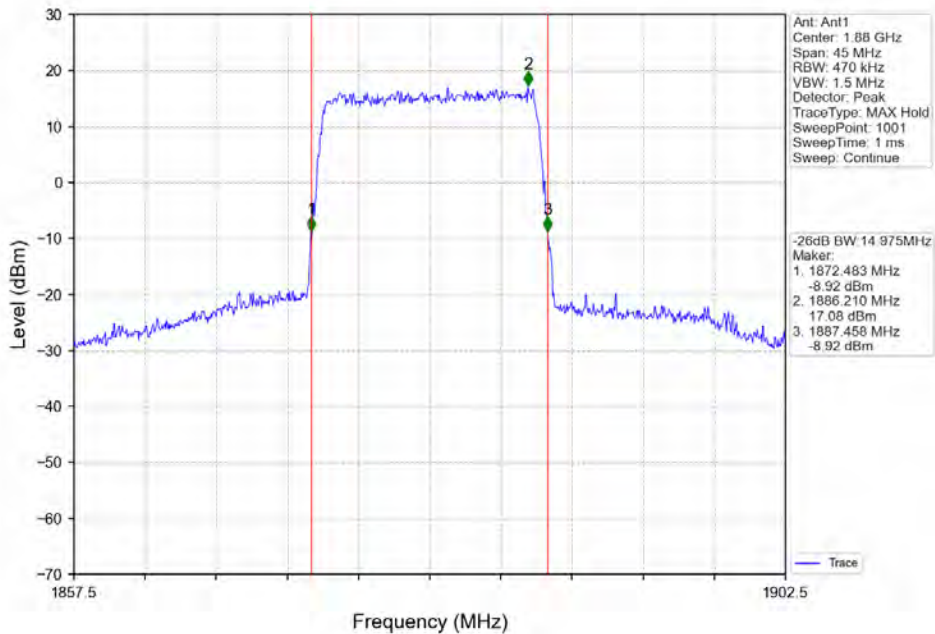
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Band 2 15MHz 64QAM LCH 1857.5MHz RB 75 0 NTNV



Band 2 15MHz 64QAM MCH 1880MHz RB 75 0 NTNV



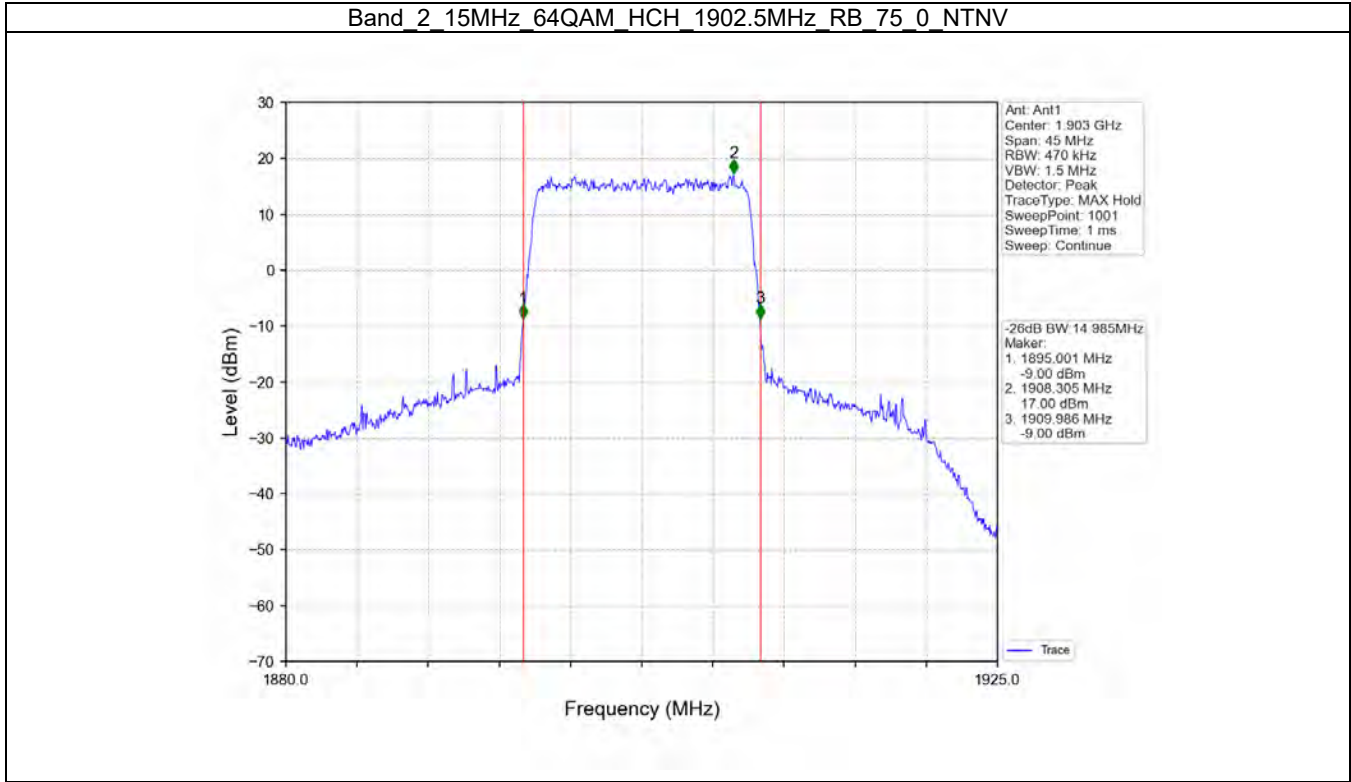
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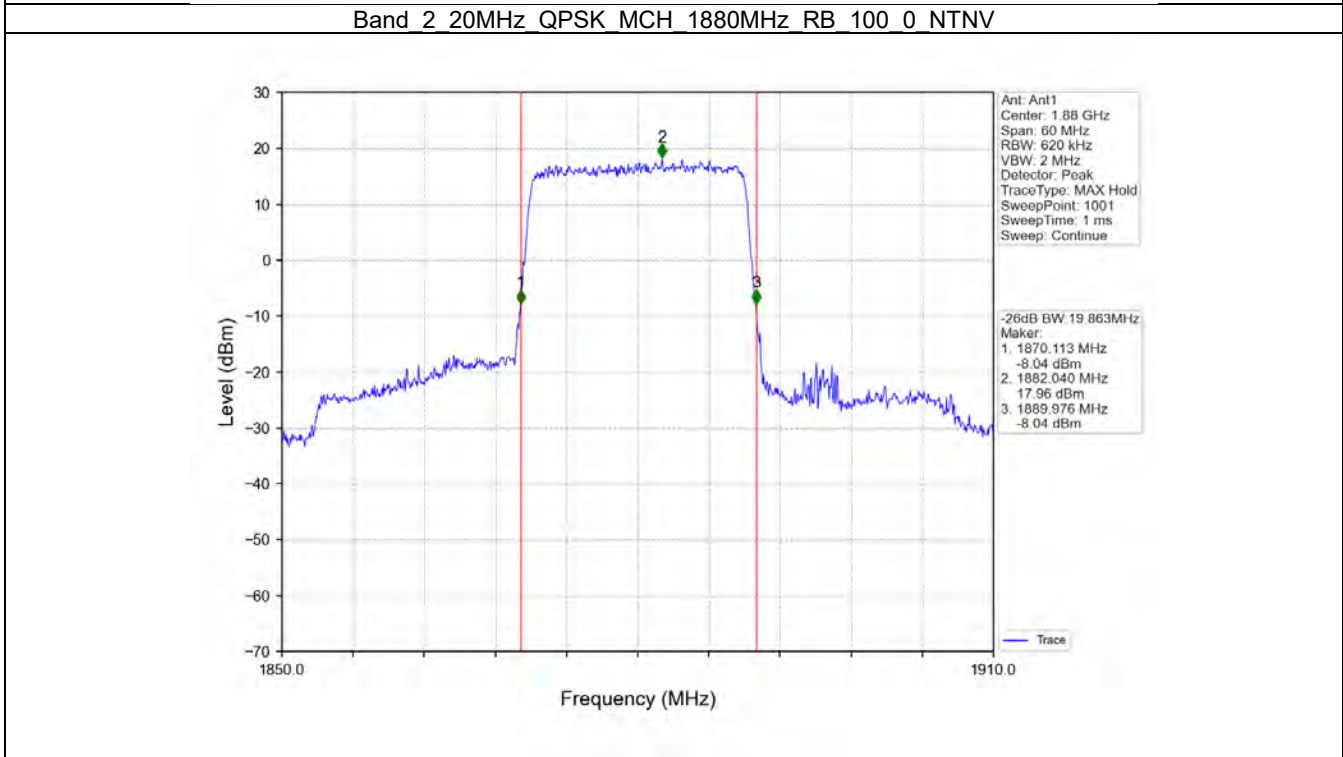
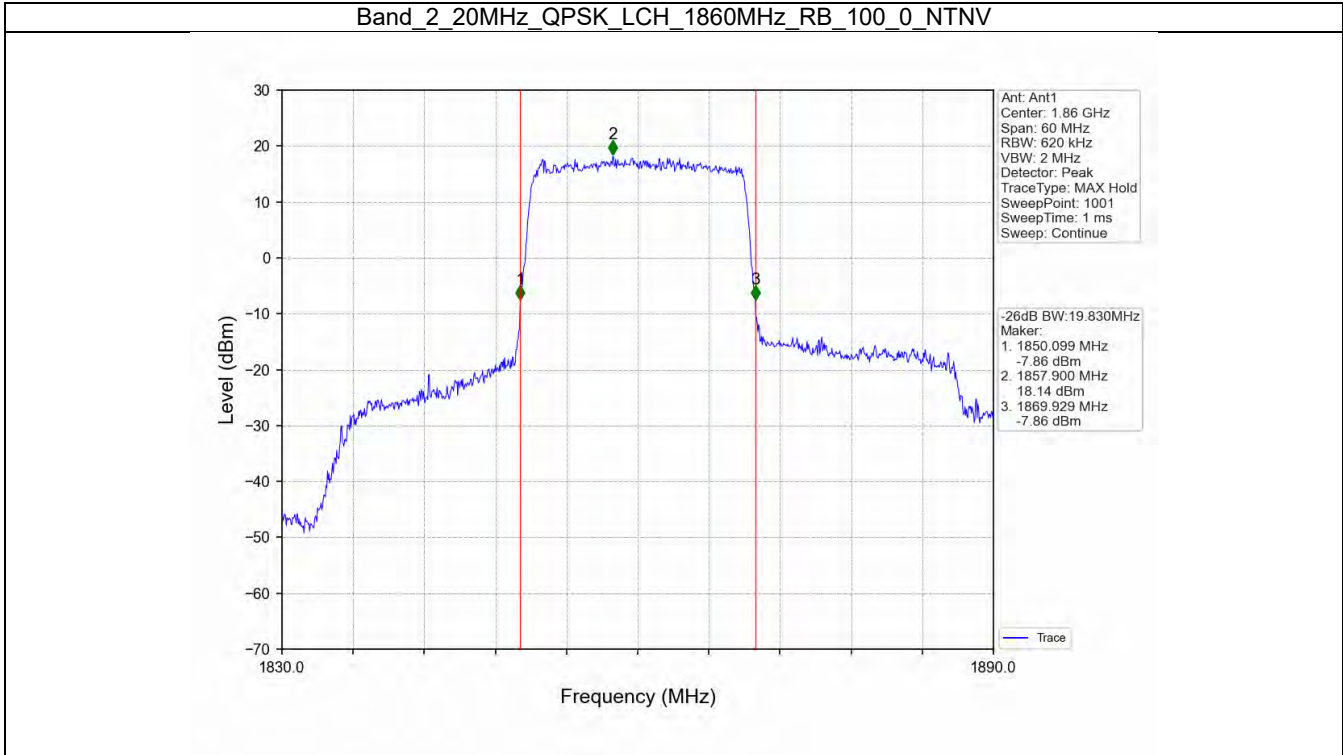
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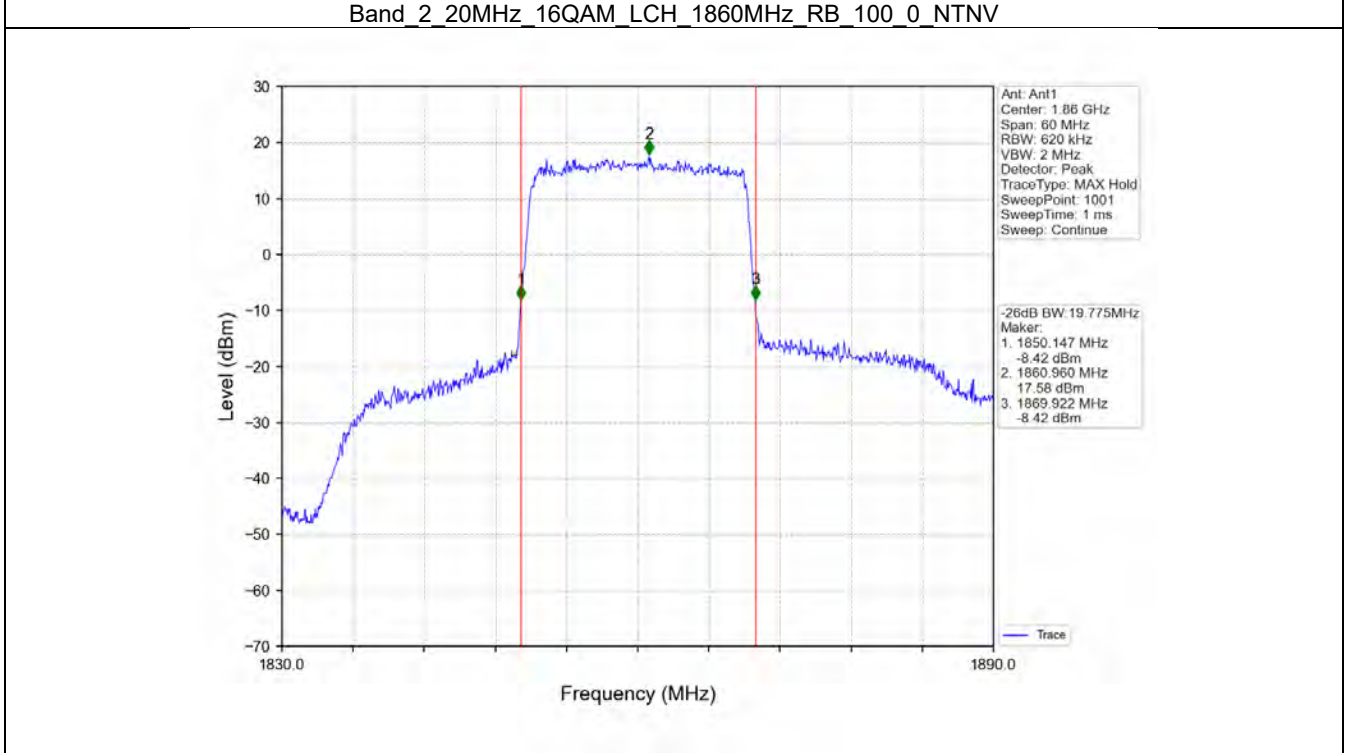
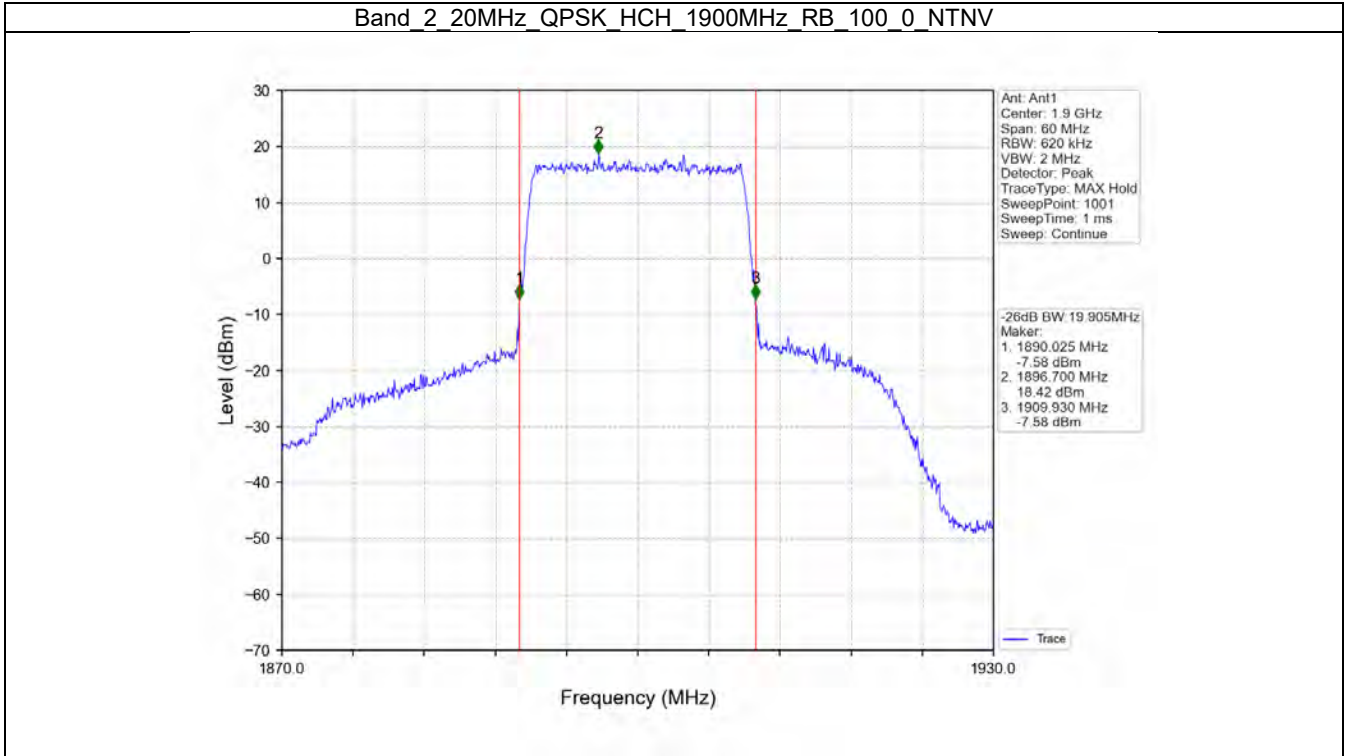
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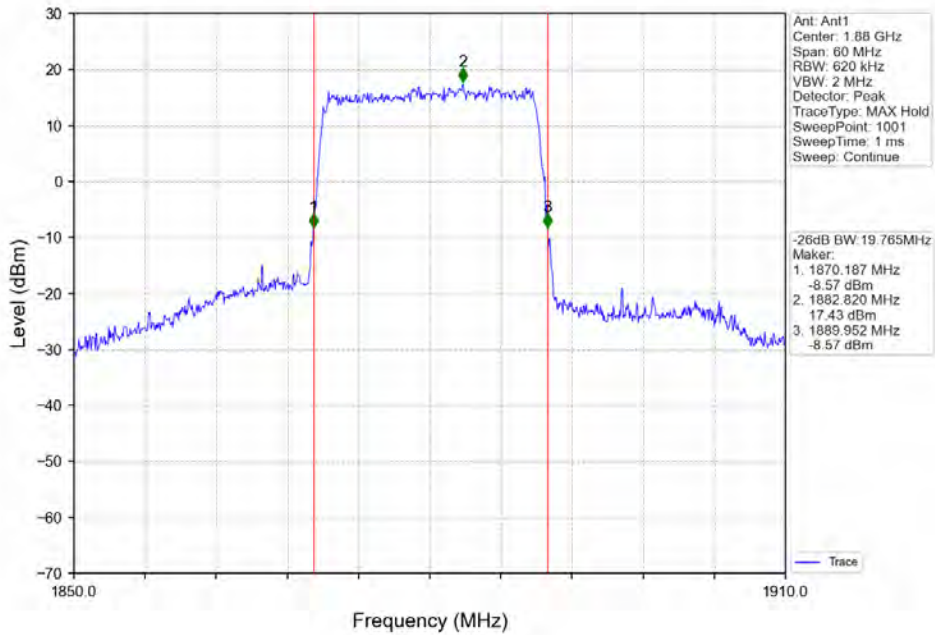
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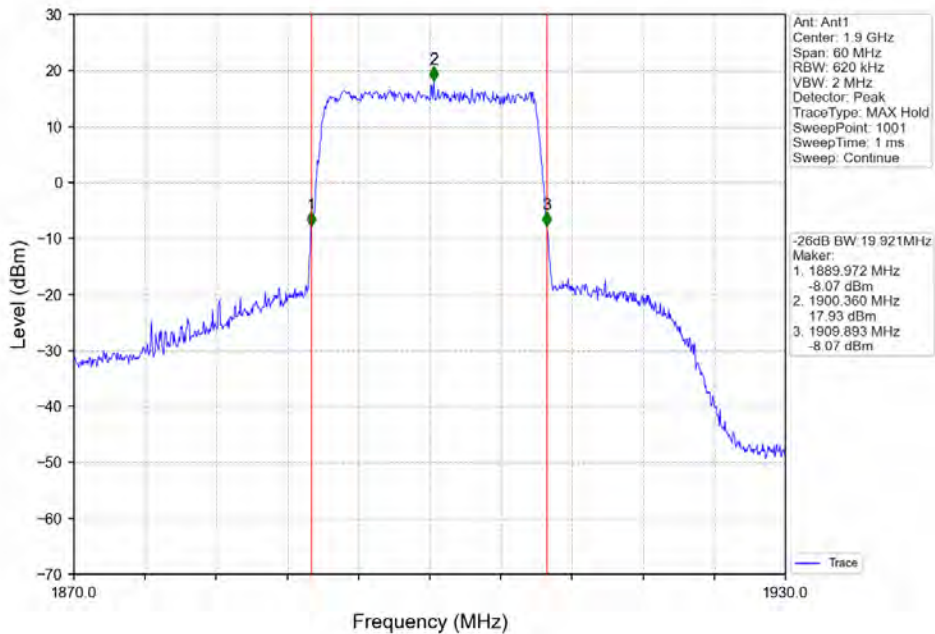
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Band 2 20MHz 16QAM MCH 1880MHz RB 100 0 NTN



Band 2 20MHz 16QAM HCH 1900MHz RB 100 0 NTN



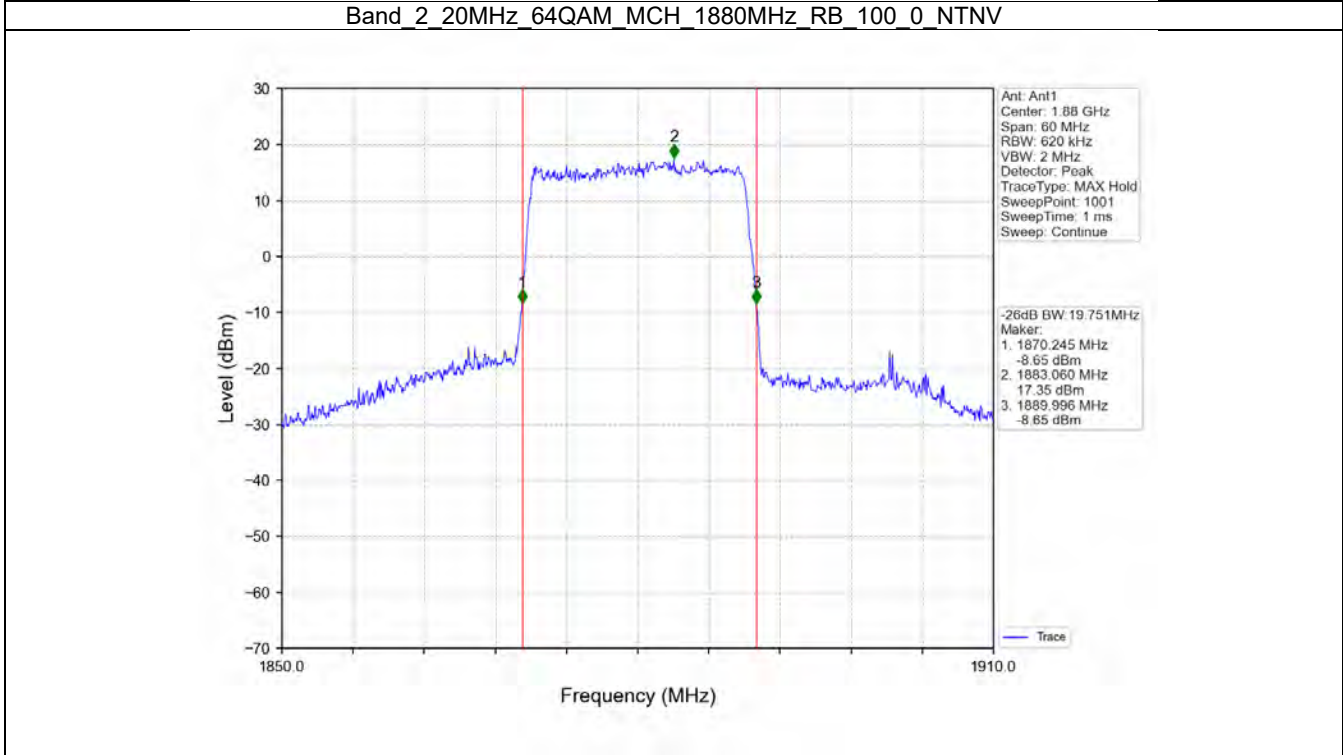
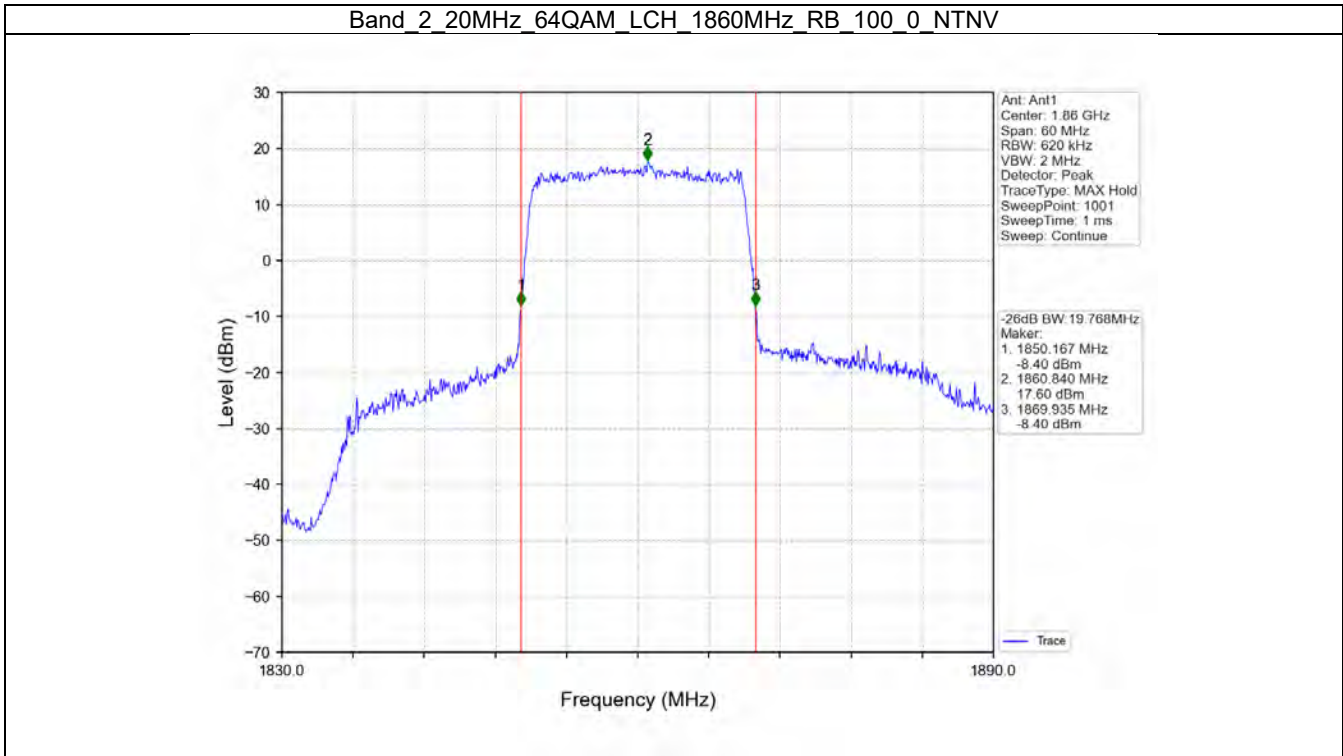
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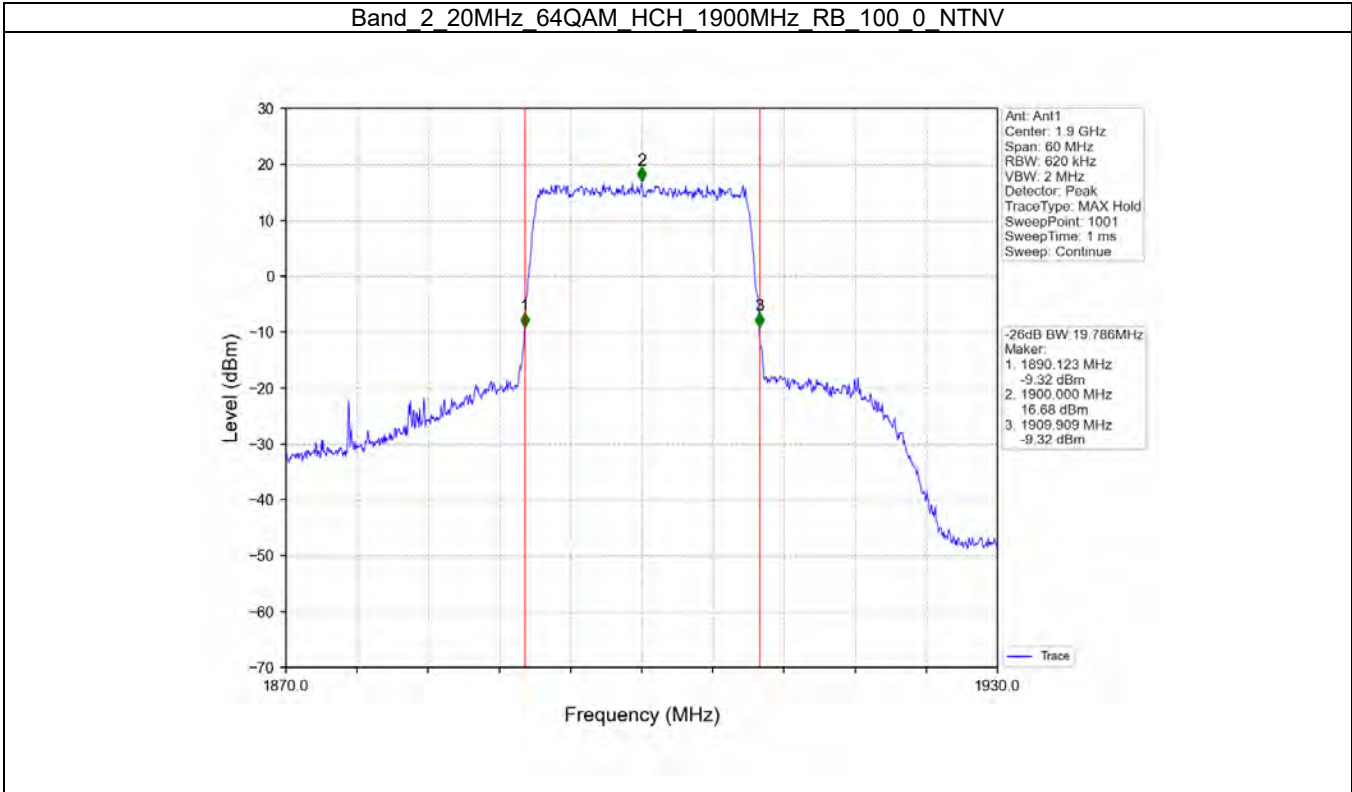
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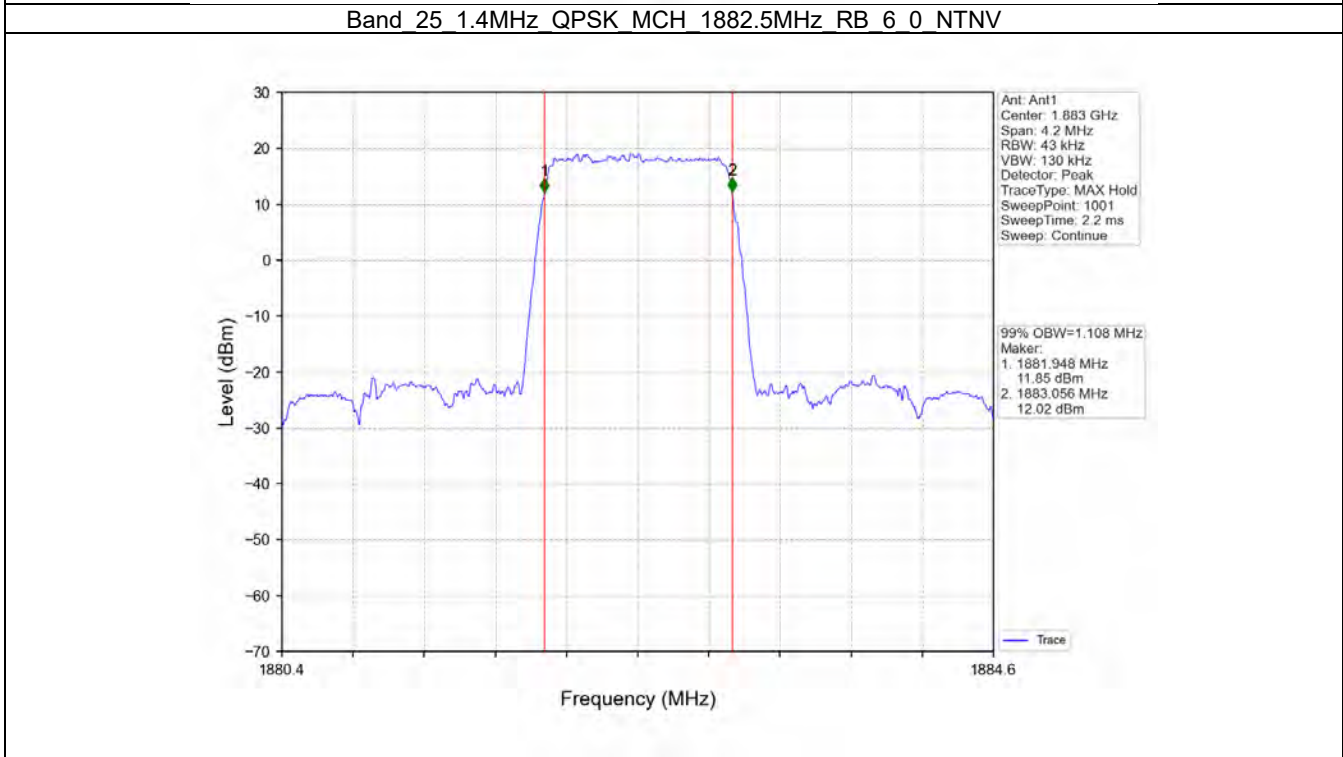
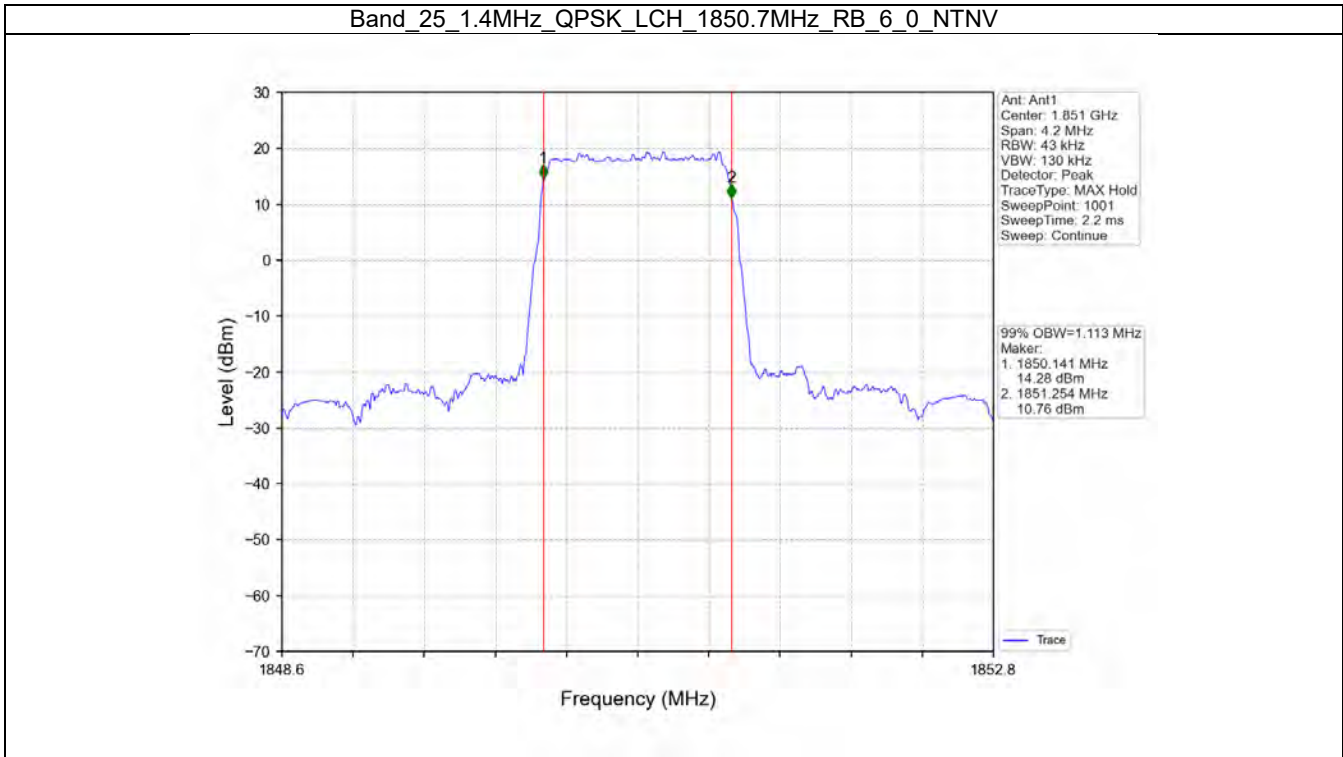
2.7 LTE Band 25 OBW

2.7.1 Test Result

Band: 25 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.113	1.108	1.110	/	Pass
16QAM	6	0	1.108	1.103	1.102	/	Pass
64QAM	6	0	1.101	1.101	1.101	/	Pass
Band: 25 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.739	2.741	2.741	/	Pass
16QAM	15	0	2.755	2.736	2.738	/	Pass
64QAM	15	0	2.741	2.741	2.737	/	Pass
Band: 25 / Bandwidth: 5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.565	4.550	4.547	/	Pass
16QAM	25	0	4.543	4.568	4.569	/	Pass
64QAM	25	0	4.537	4.565	4.559	/	Pass
Band: 25 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.026	9.053	9.019	/	Pass
16QAM	50	0	9.056	9.039	9.031	/	Pass
64QAM	50	0	9.020	9.018	9.001	/	Pass
Band: 25 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.500	13.589	13.545	/	Pass
16QAM	75	0	13.517	13.604	13.579	/	Pass
64QAM	75	0	13.537	13.606	13.566	/	Pass
Band: 25 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.016	18.109	18.090	/	Pass
16QAM	100	0	18.14.0	18.132	18.069	/	Pass
64QAM	100	0	18.063	18.089	18.074	/	Pass



2.7.2 Test Graph



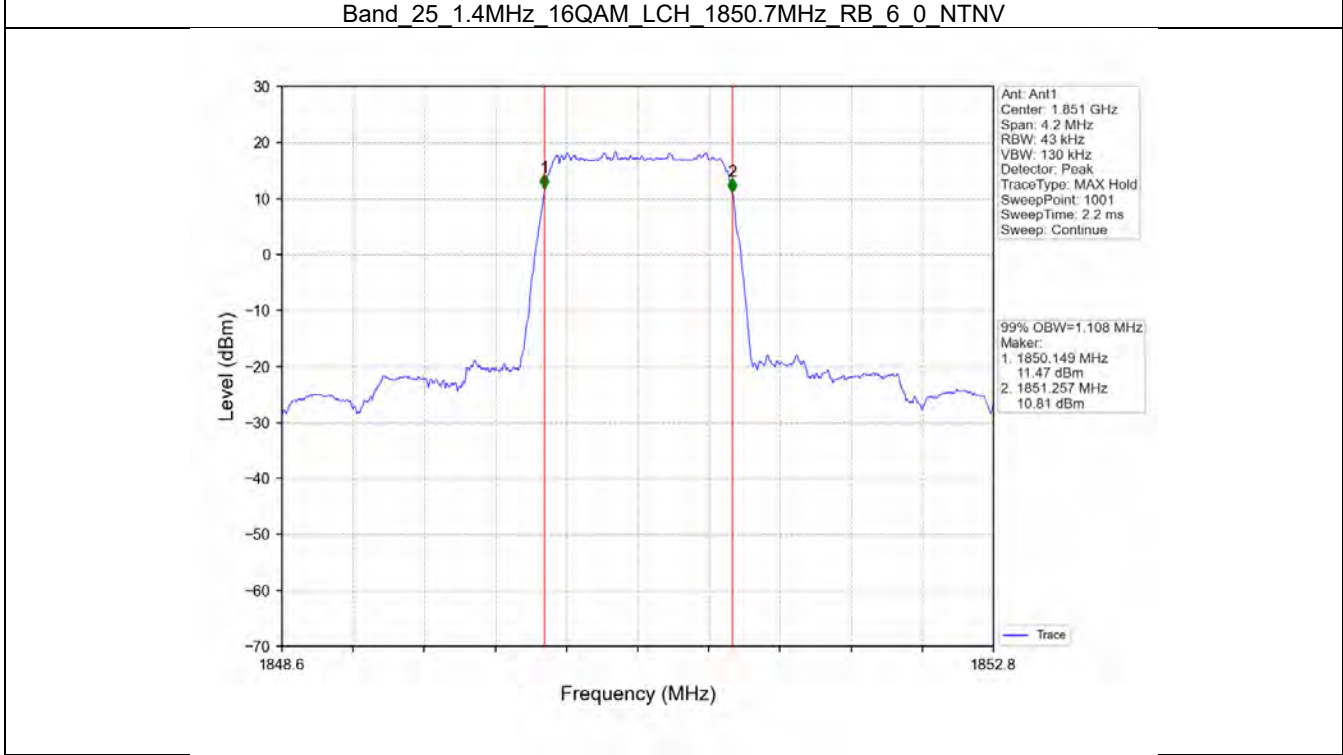
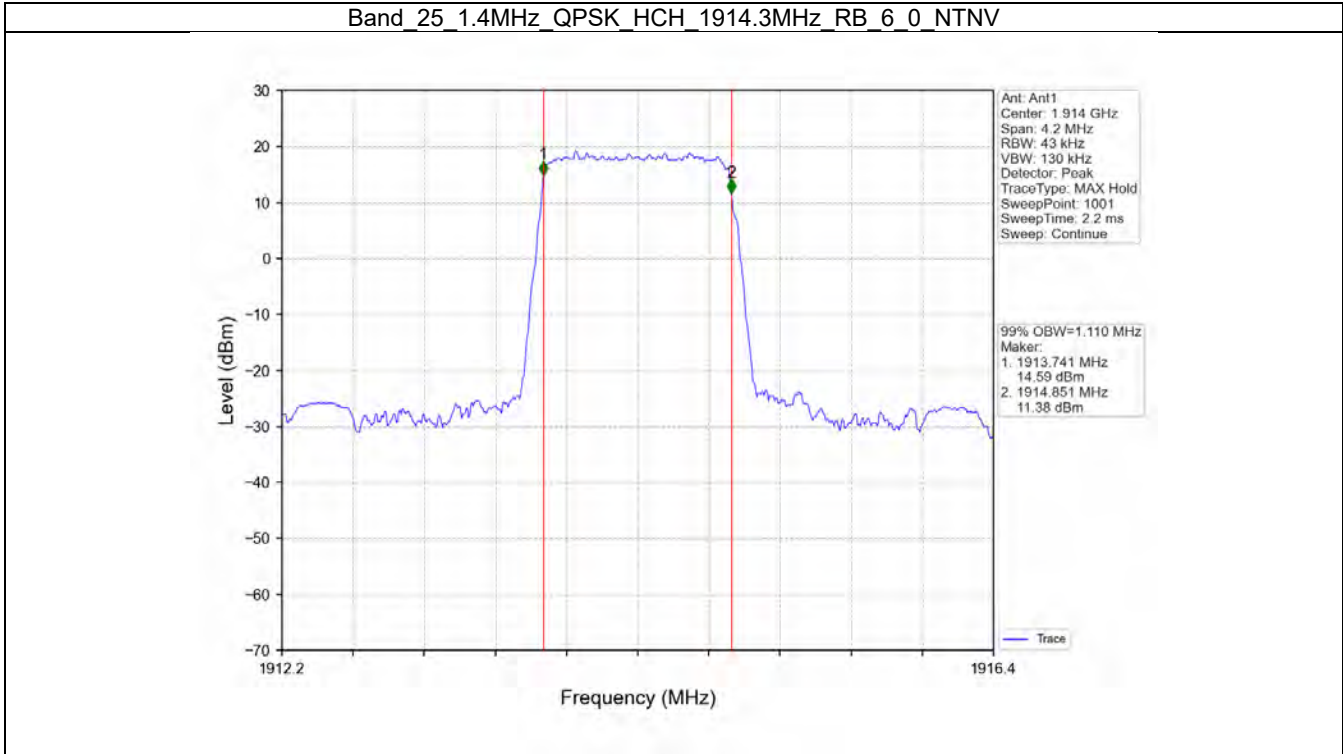
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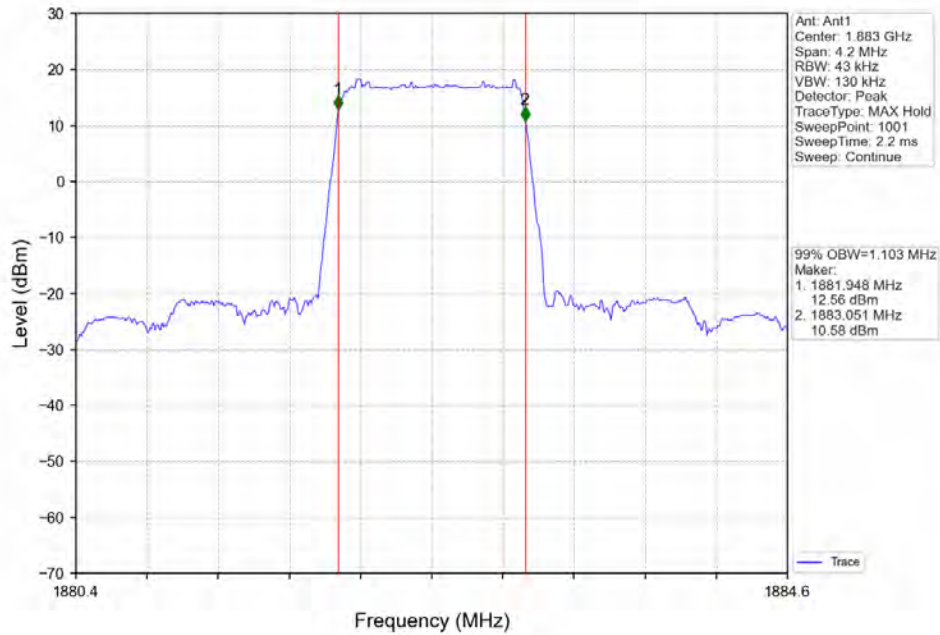
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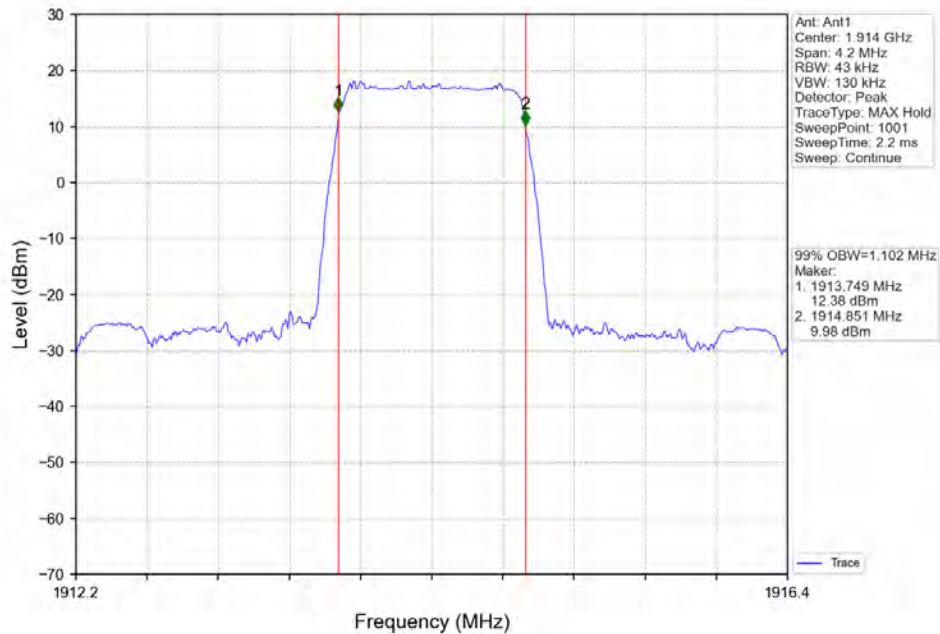
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Band 25 1.4MHz 16QAM MCH 1882.5MHz RB 6 0 NTNV



Band 25 1.4MHz 16QAM HCH 1914.3MHz RB 6 0 NTNV



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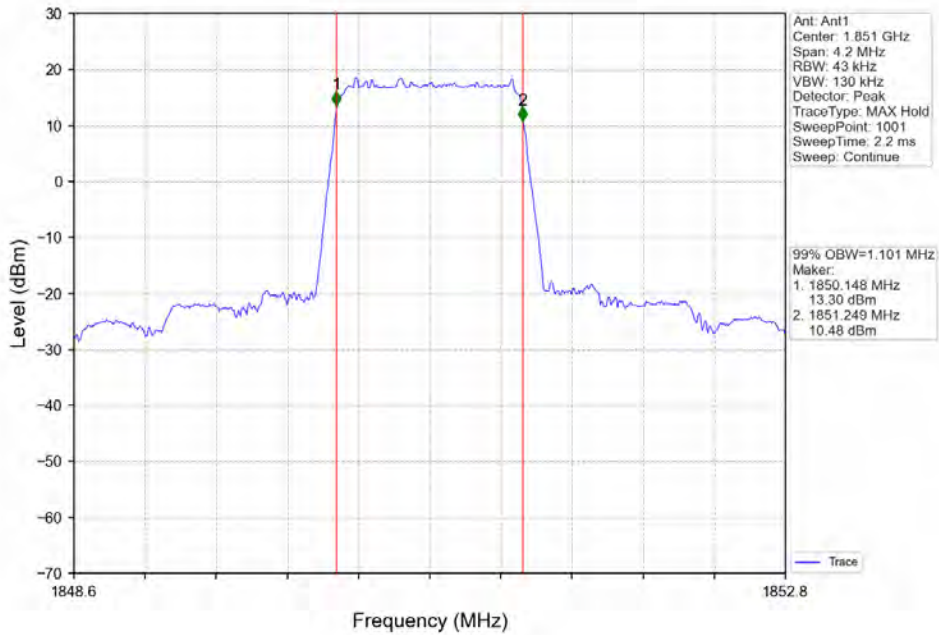
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

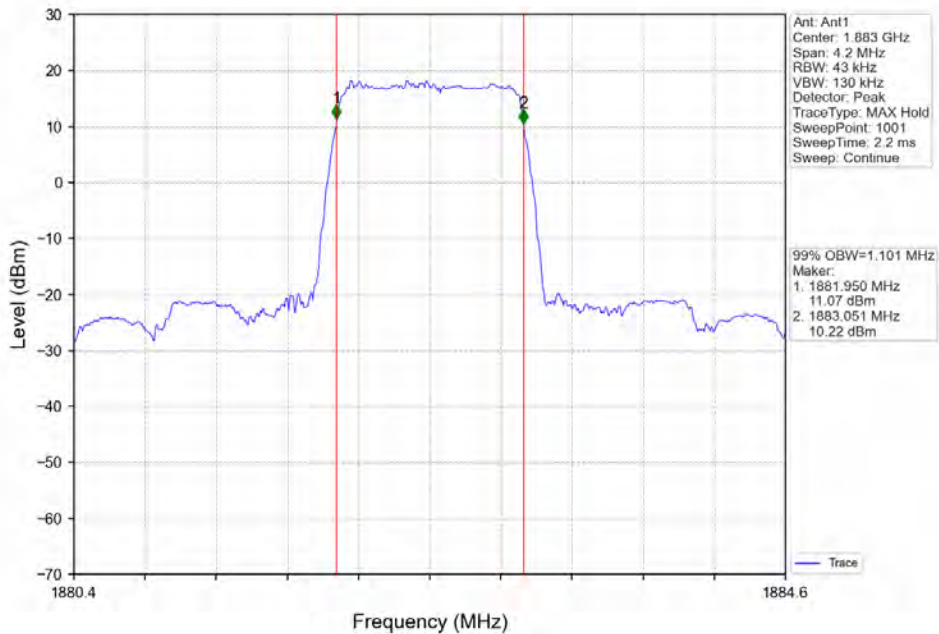
Email: customerservice.sw@bureauveritas.com



Band 25 1.4MHz 64QAM LCH 1850.7MHz RB 6 0 NTNV



Band 25 1.4MHz 64QAM MCH 1882.5MHz RB 6 0 NTNV



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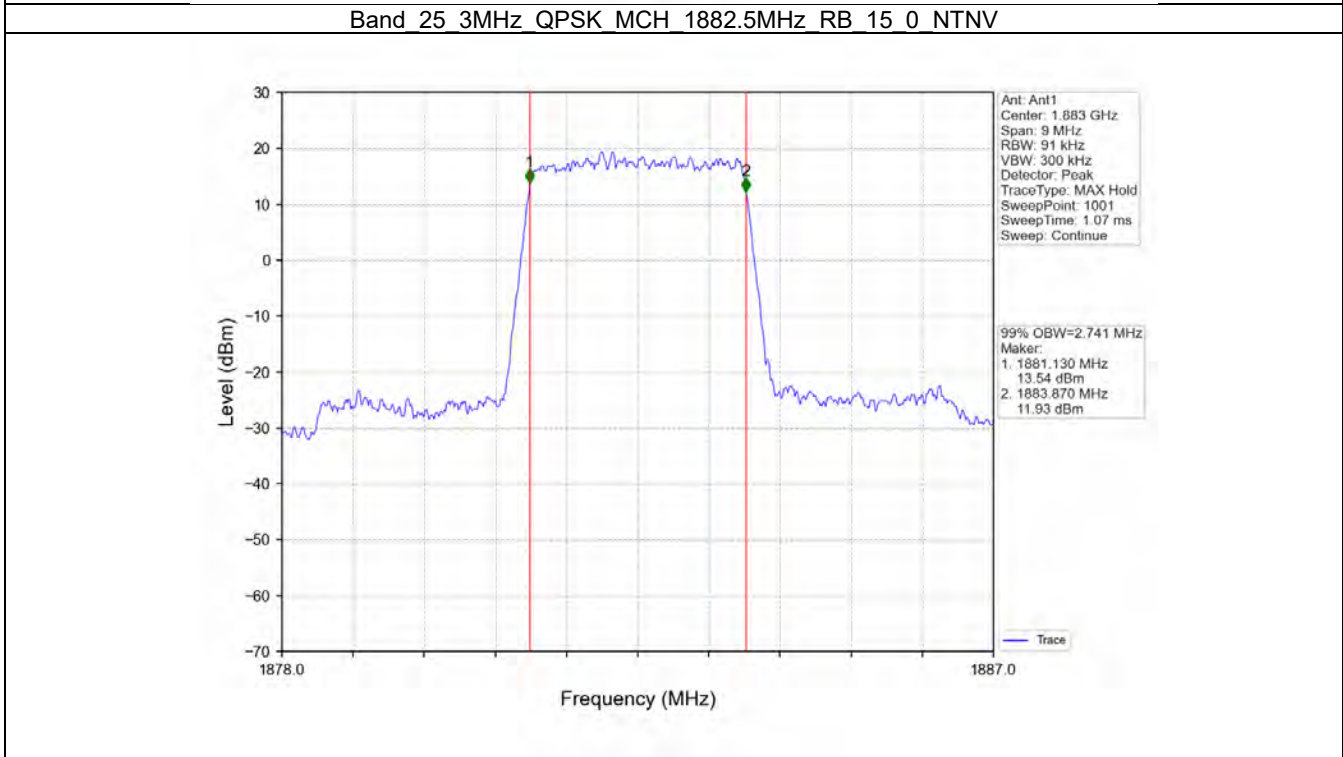
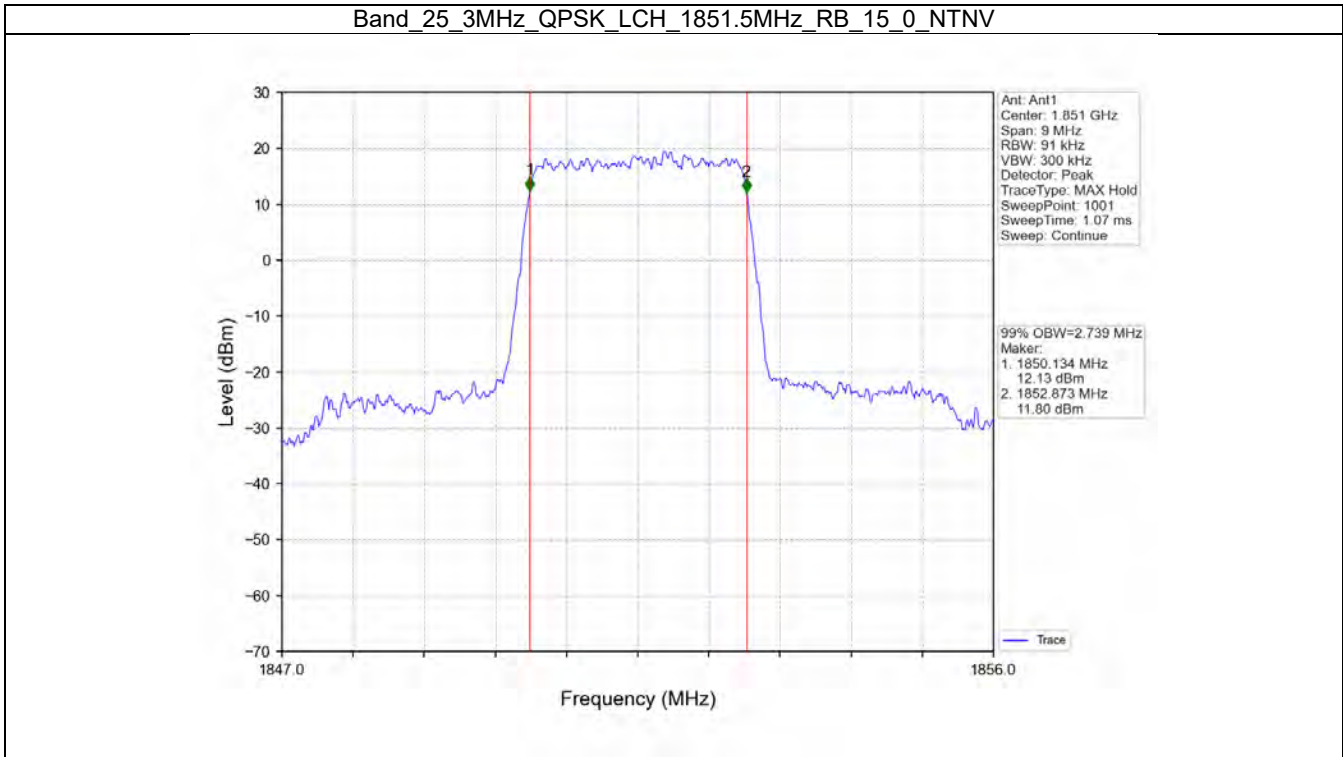
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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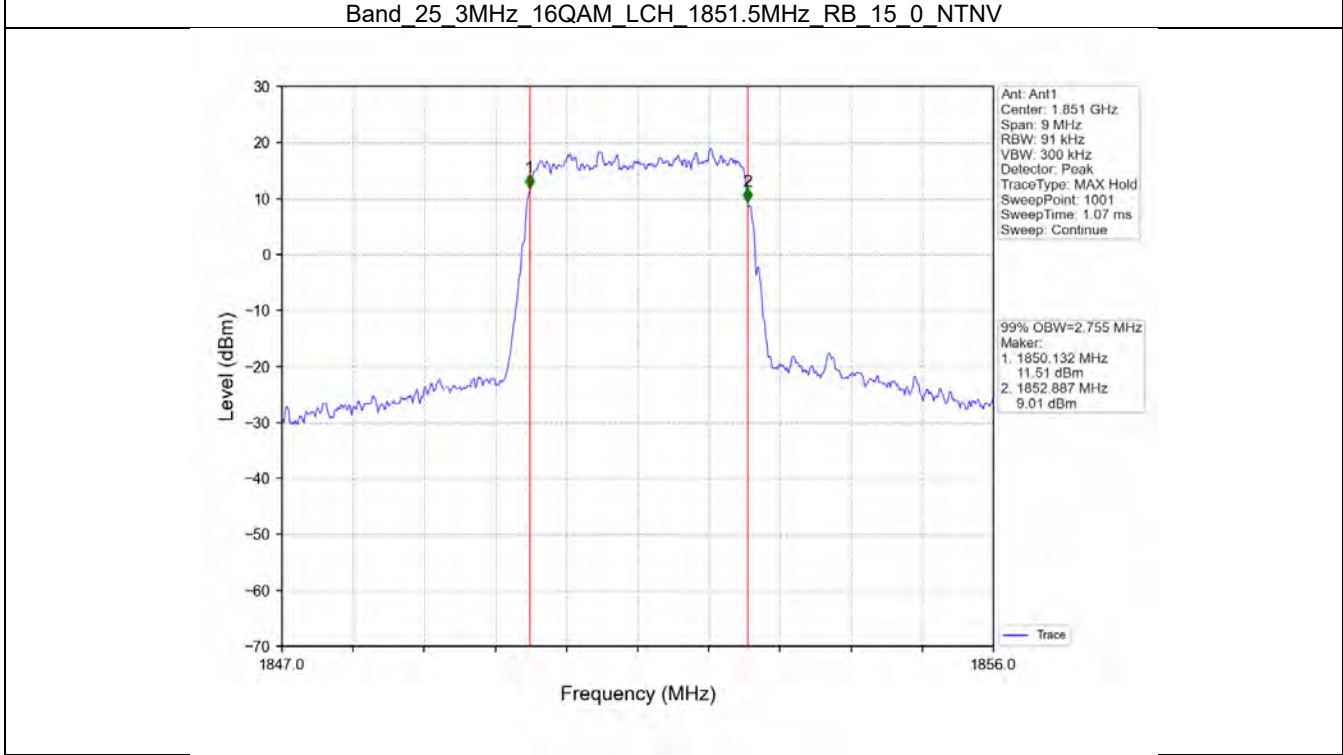
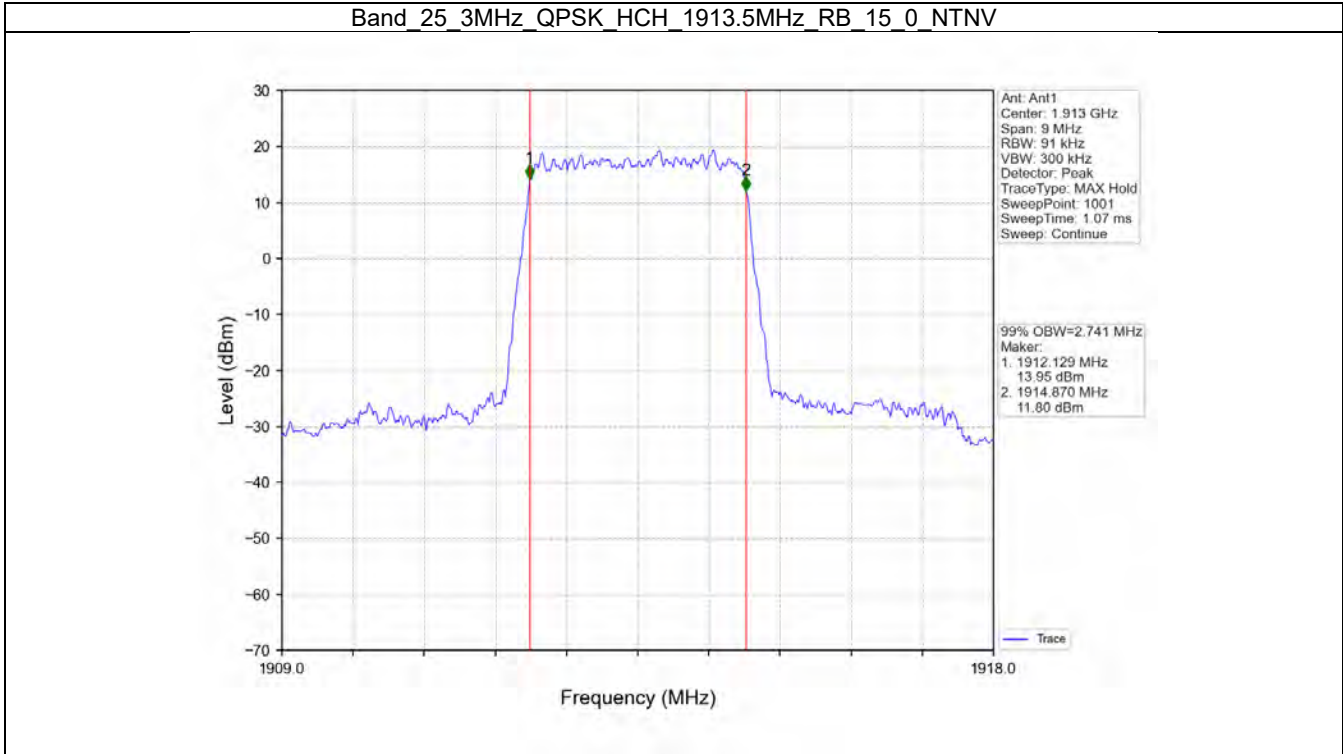
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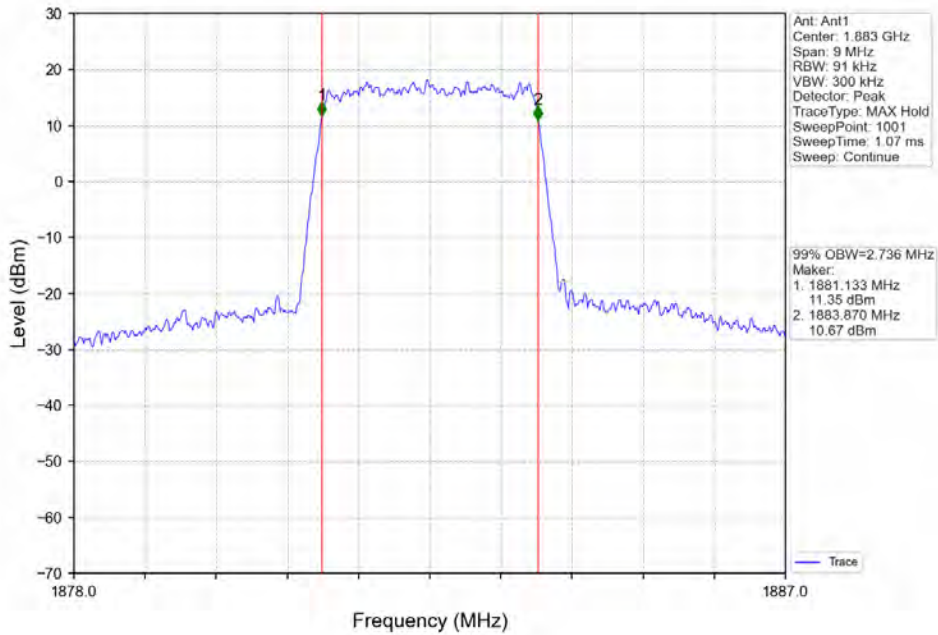
Fax: +86 755 8869 6577

Email: customerservice.sw@bureauveritas.com

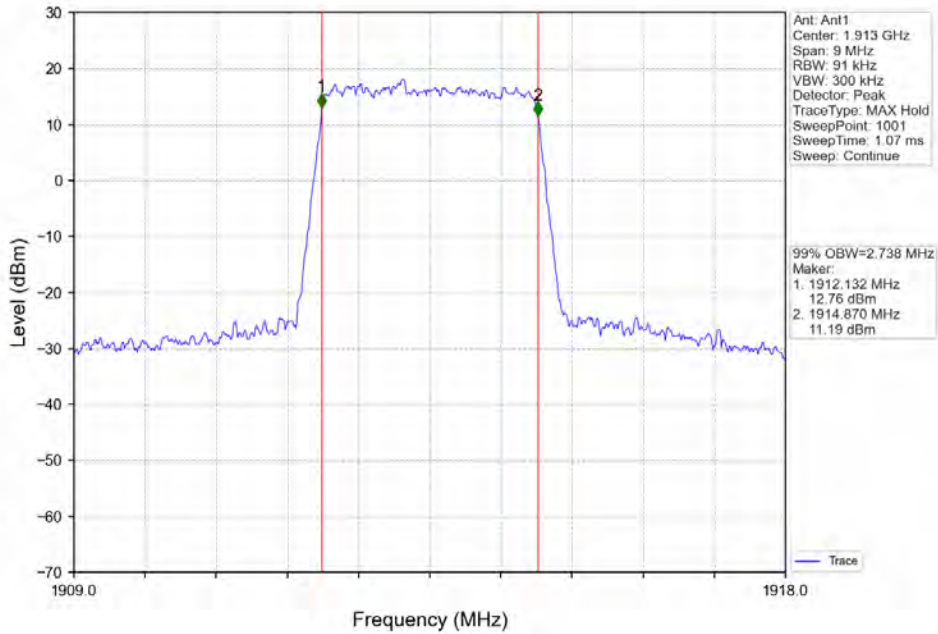




Band 25 3MHz 16QAM MCH 1882.5MHz RB 15 0 NTNV



Band 25 3MHz 16QAM HCH 1913.5MHz RB 15 0 NTNV



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