

Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b SISO	2412	Ant1	99.45	0.02	0.12
NVNT	b SISO	2412	Ant2	99.45	0.02	0.12
NVNT	b SISO	2437	Ant1	99.45	0.02	0.12
NVNT	b SISO	2437	Ant2	99.45	0.02	0.12
NVNT	b SISO	2462	Ant1	99.45	0.02	0.12
NVNT	b SISO	2462	Ant2	99.45	0.02	0.12
NVNT	g SISO	2412	Ant1	96.27	0.17	0.72
NVNT	g SISO	2412	Ant2	96.27	0.17	0.72
NVNT	g SISO	2437	Ant1	96.27	0.17	0.72
NVNT	g SISO	2437	Ant2	96.27	0.17	0.72
NVNT	g SISO	2462	Ant1	96.4	0.16	0.72
NVNT	g SISO	2462	Ant2	96.4	0.16	0.72
NVNT	n20 SISO	2412	Ant1	96.01	0.18	0.77
NVNT	n20 SISO	2412	Ant2	96.16	0.17	0.77
NVNT	n20 MIMO	2412	Sum	96.01	0.18	0.77
NVNT	n20 SISO	2437	Ant1	96.16	0.17	0.77
NVNT	n20 SISO	2437	Ant2	96.16	0.17	0.77
NVNT	n20 MIMO	2437	Sum	96.01	0.18	0.77
NVNT	n20 SISO	2462	Ant1	96.16	0.17	0.77
NVNT	n20 SISO	2462	Ant2	96.01	0.18	0.77
NVNT	n20 MIMO	2462	Sum	96.16	0.17	0.77
NVNT	n40 SISO	2422	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2422	Ant2	92.31	0.35	1.54
NVNT	n40 MIMO	2422	Sum	92.31	0.35	1.54
NVNT	n40 SISO	2437	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2437	Ant2	92.57	0.34	1.54
NVNT	n40 MIMO	2437	Sum	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant1	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant2	92.31	0.35	1.54
NVNT	n40 MIMO	2452	Sum	92.57	0.34	1.54

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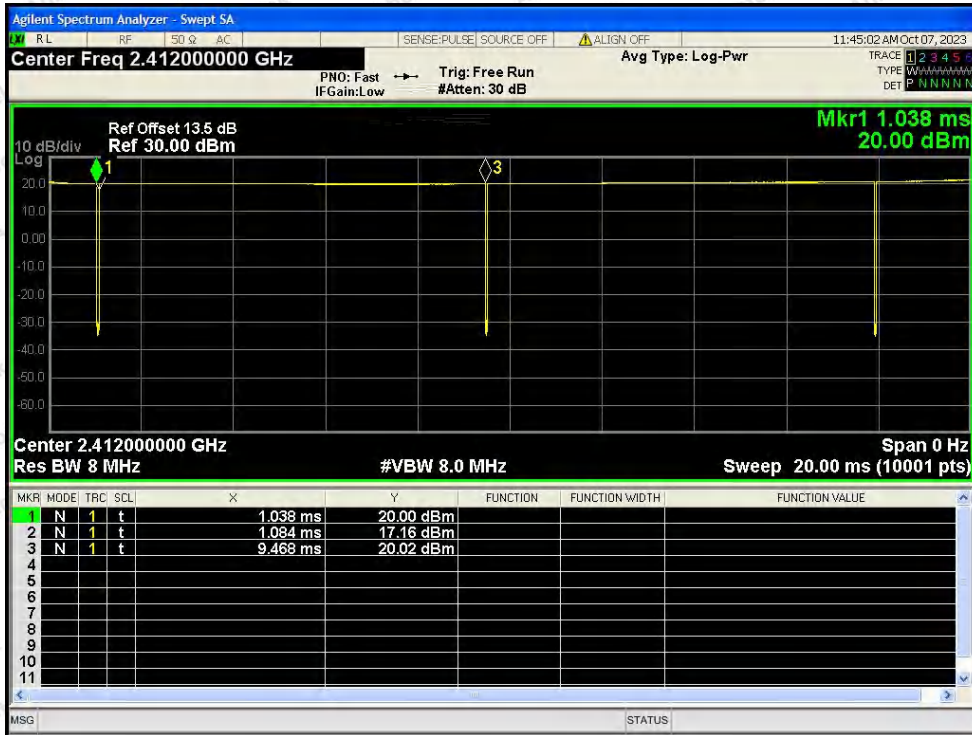
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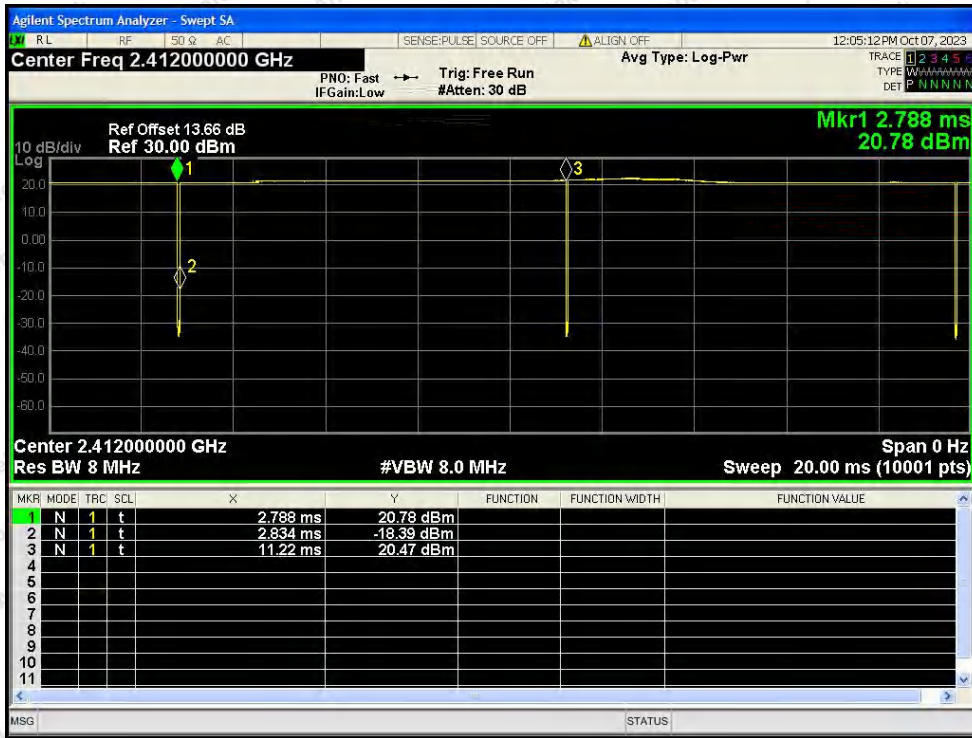


Test Graphs

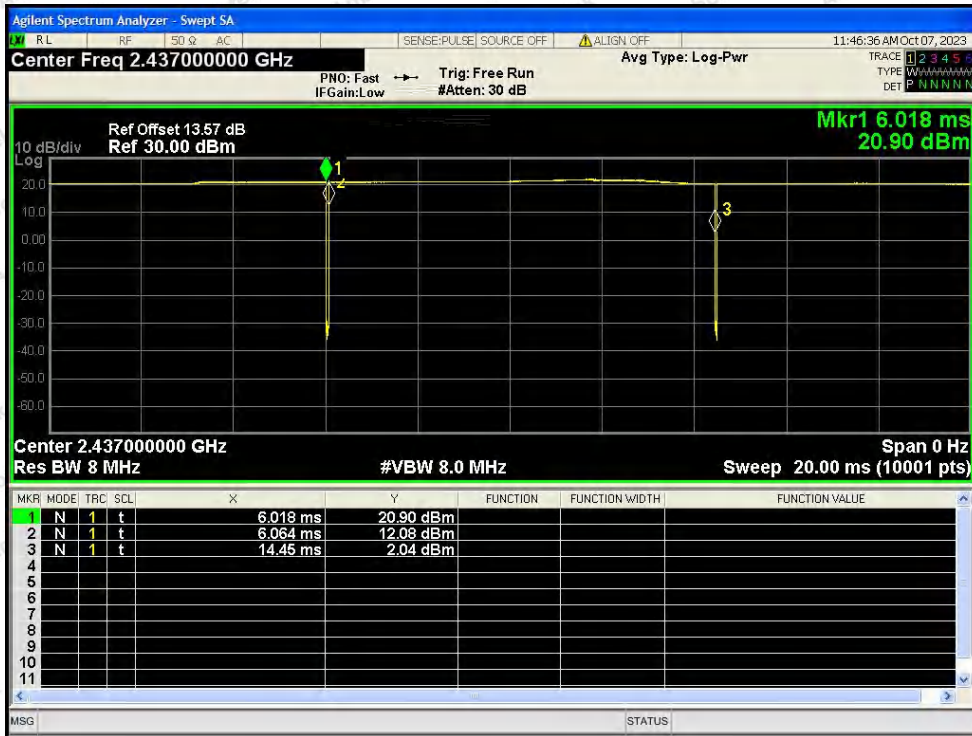
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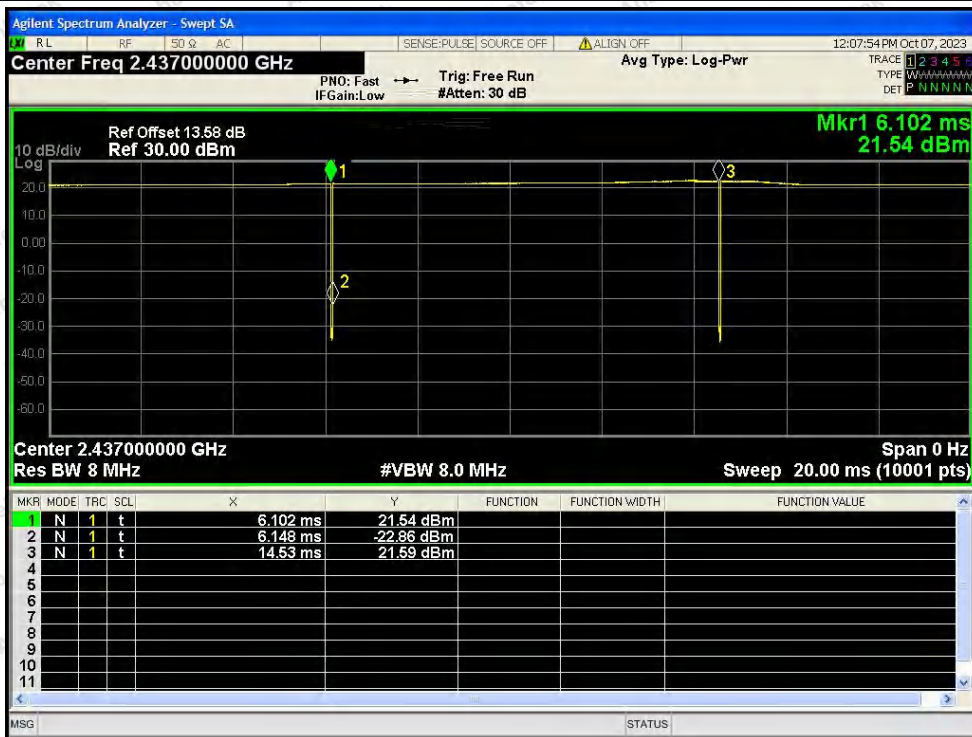
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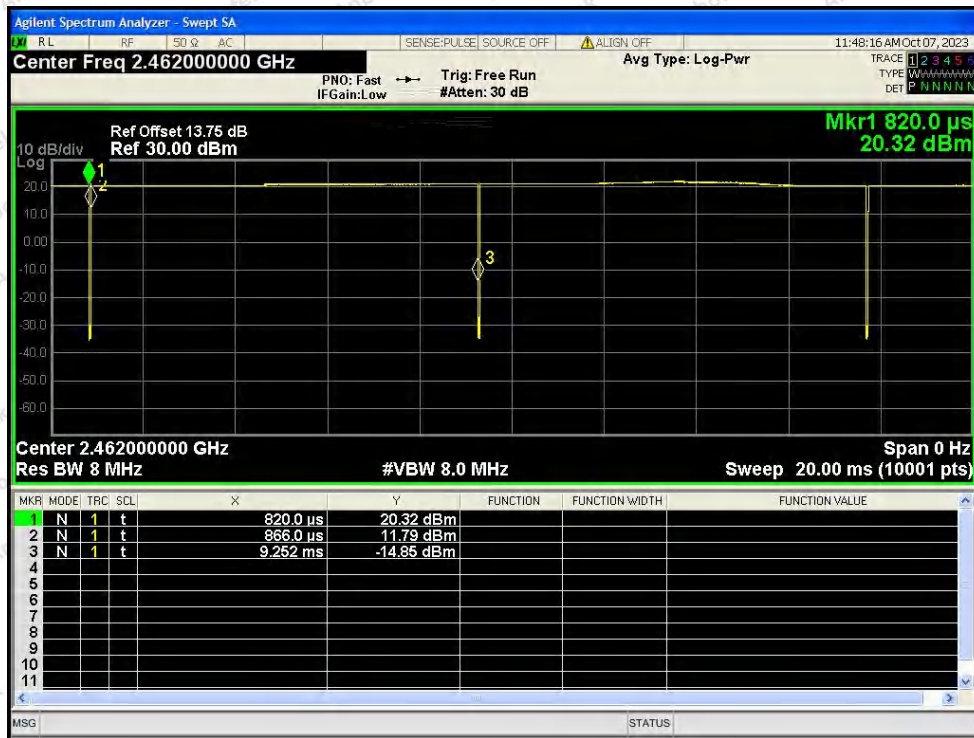
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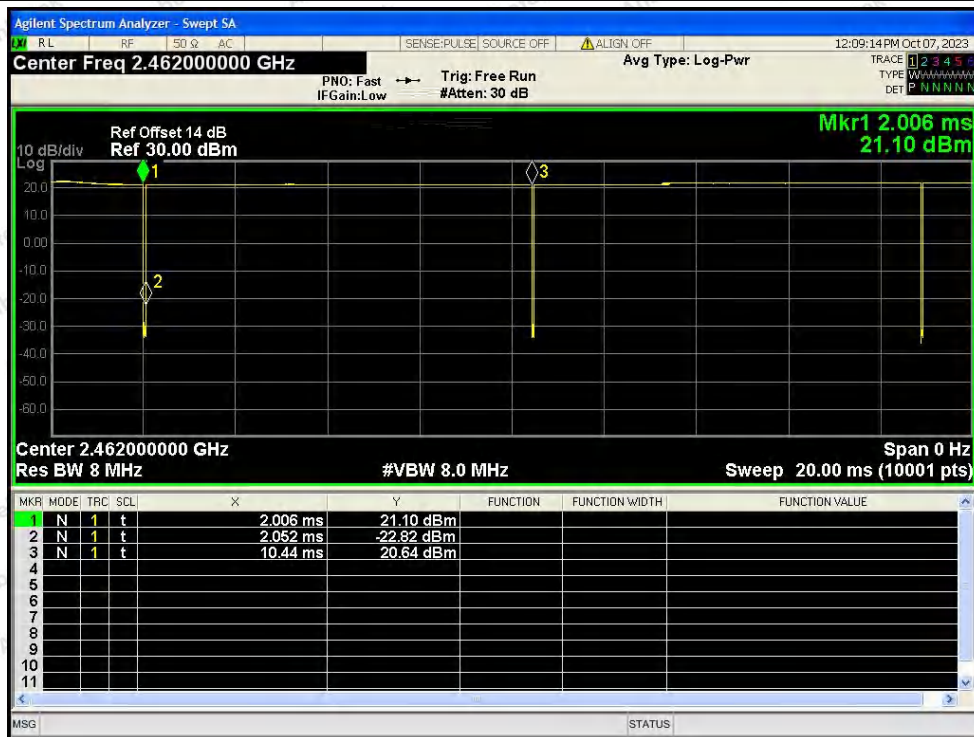
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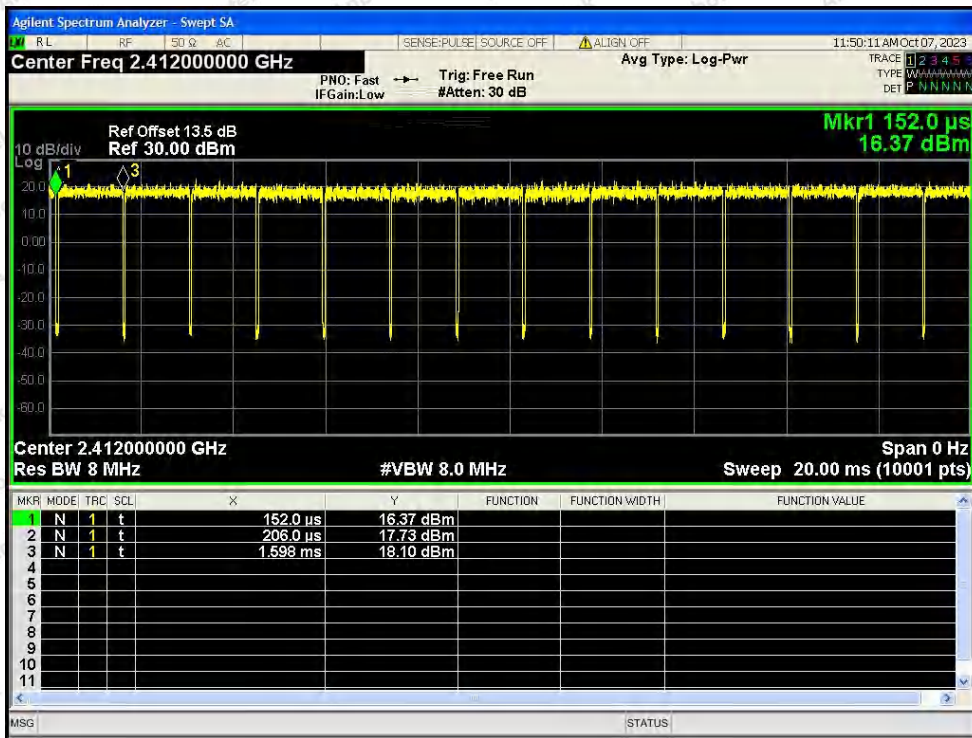
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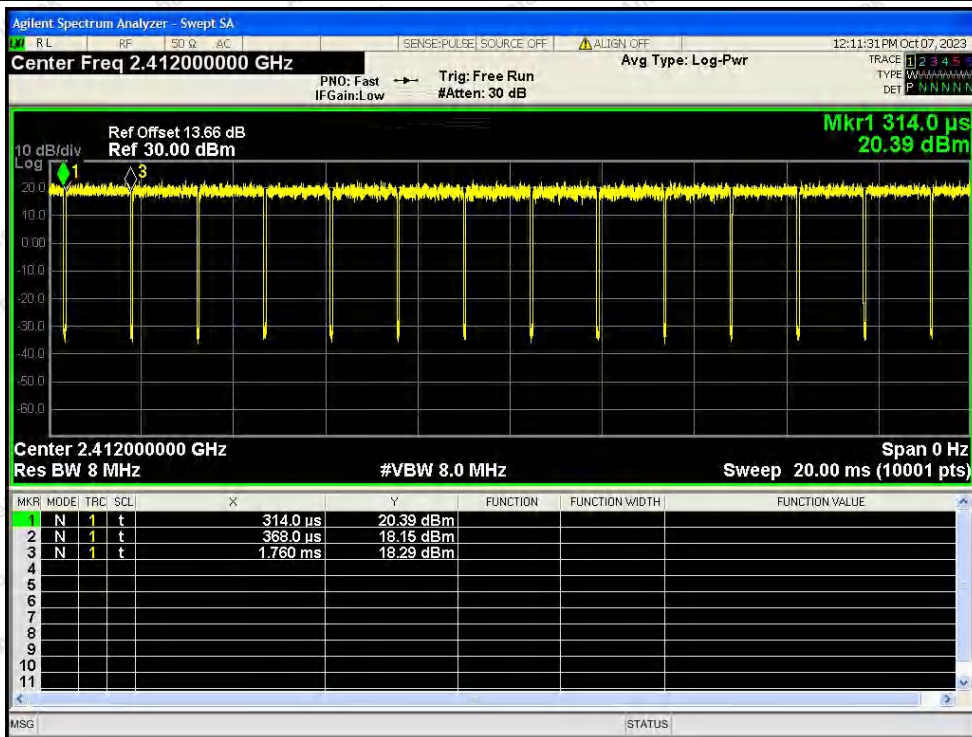
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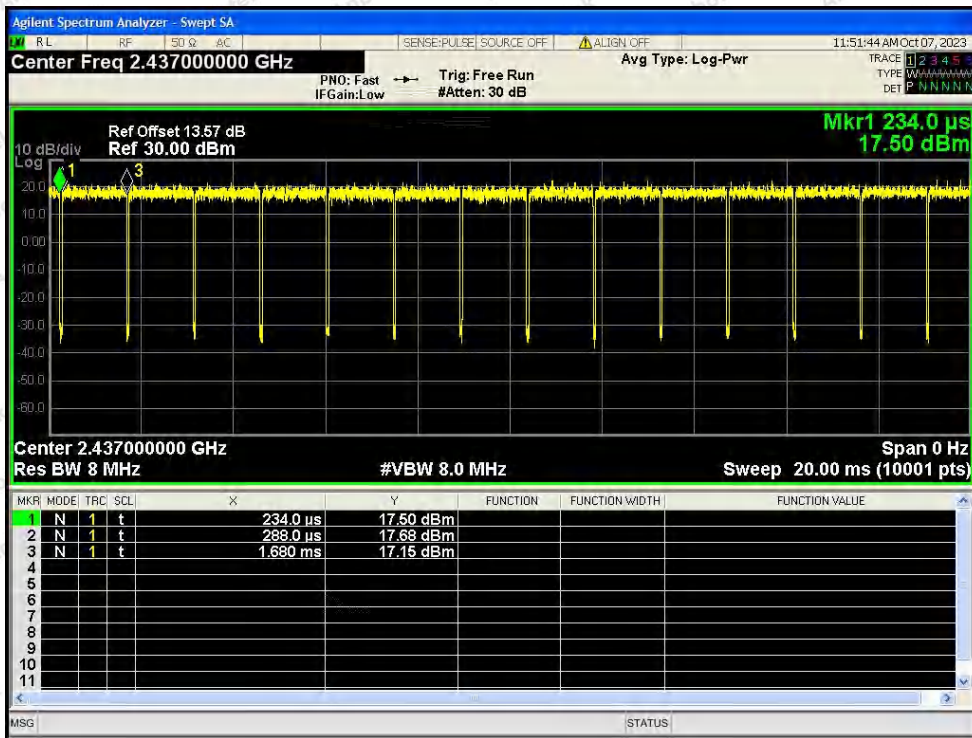
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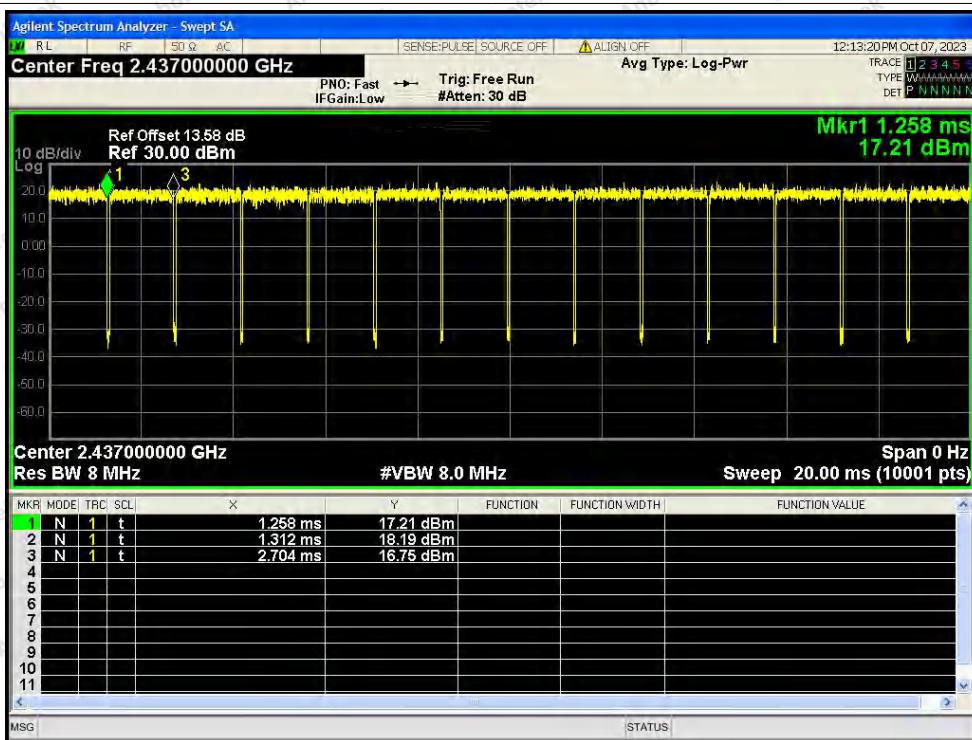
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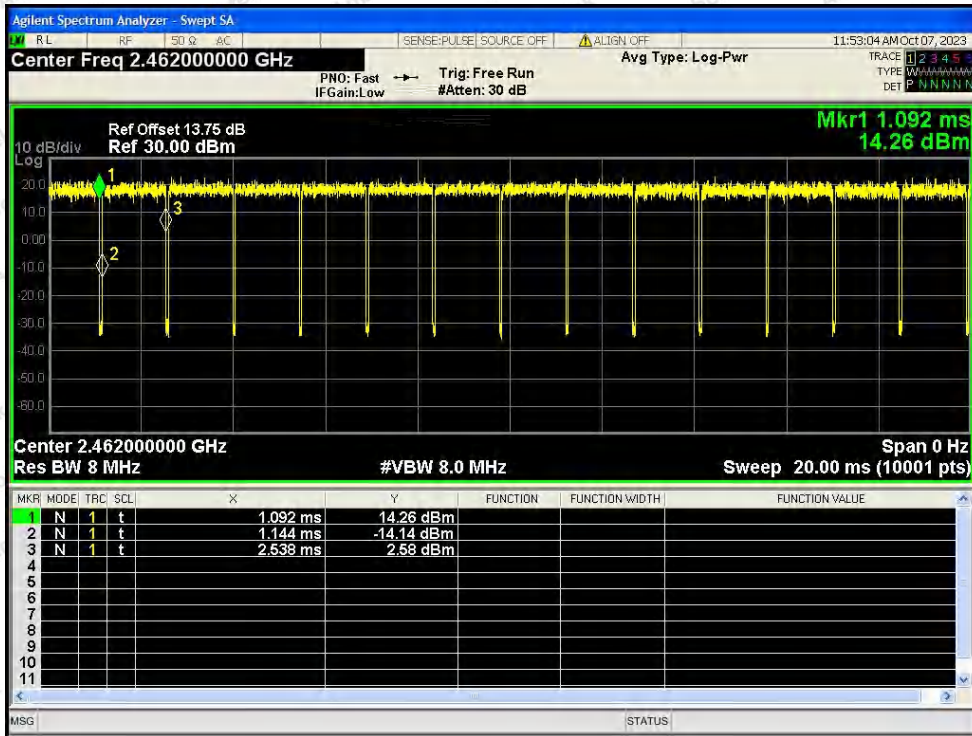
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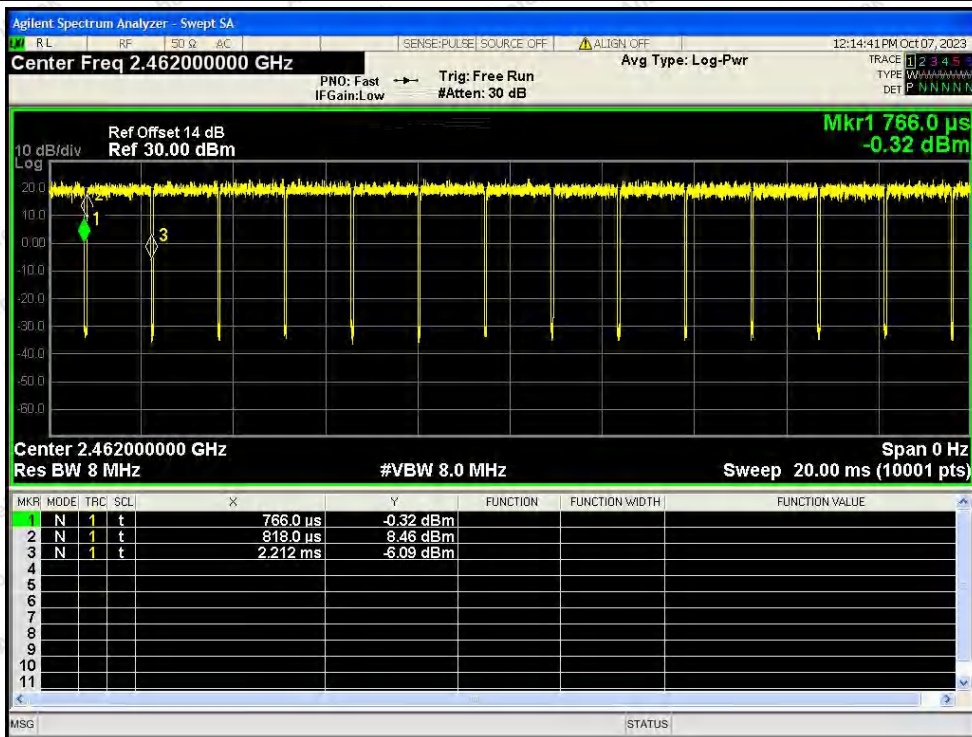
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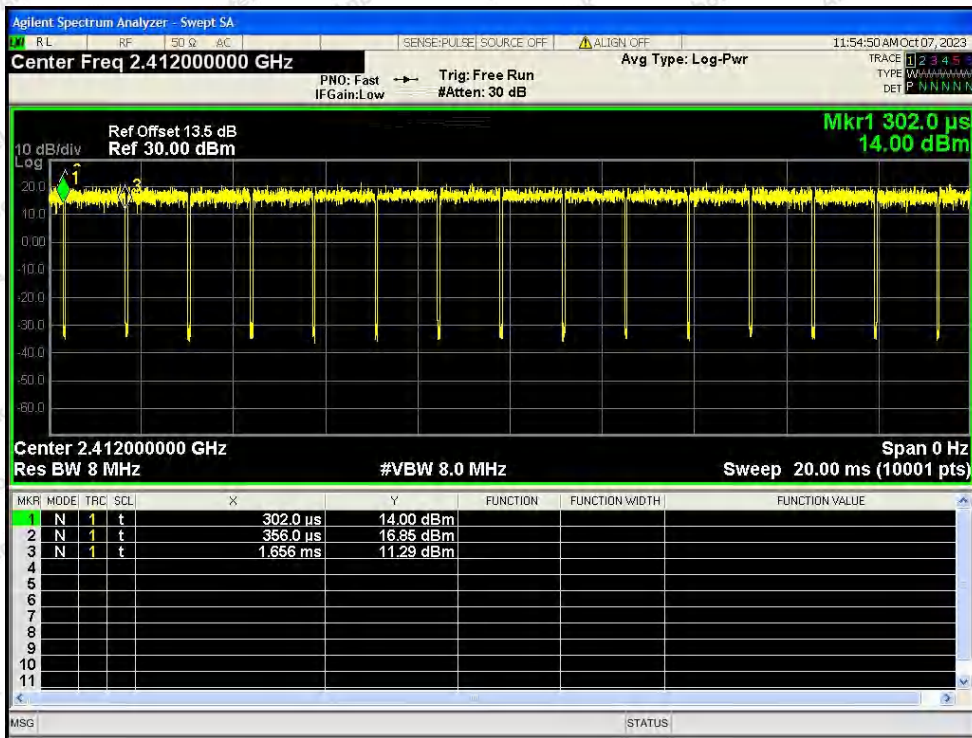
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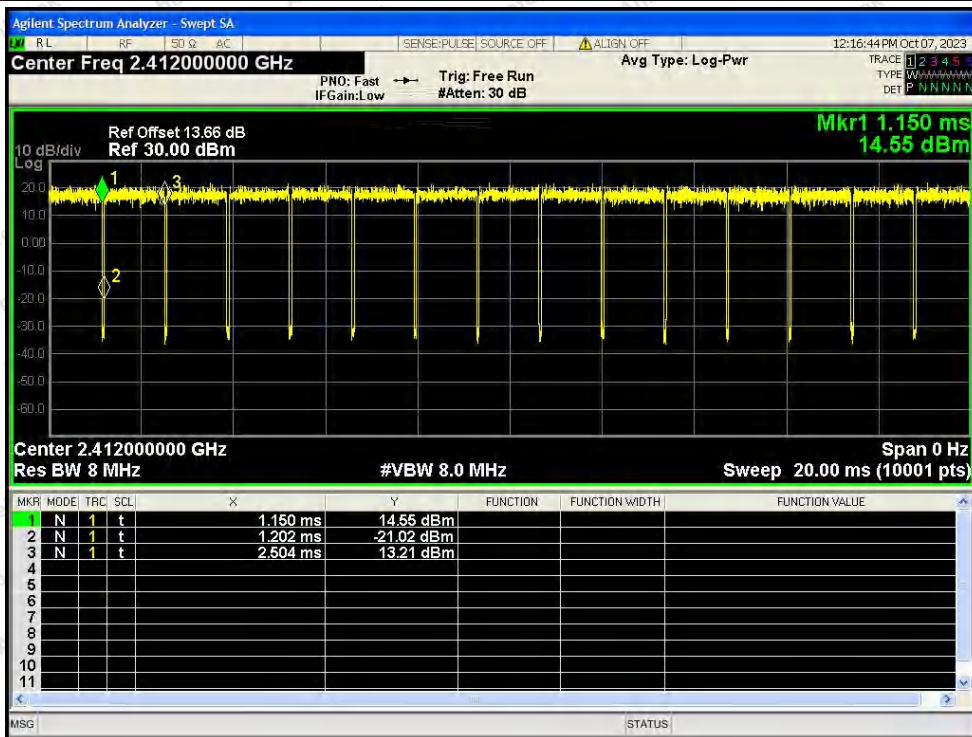
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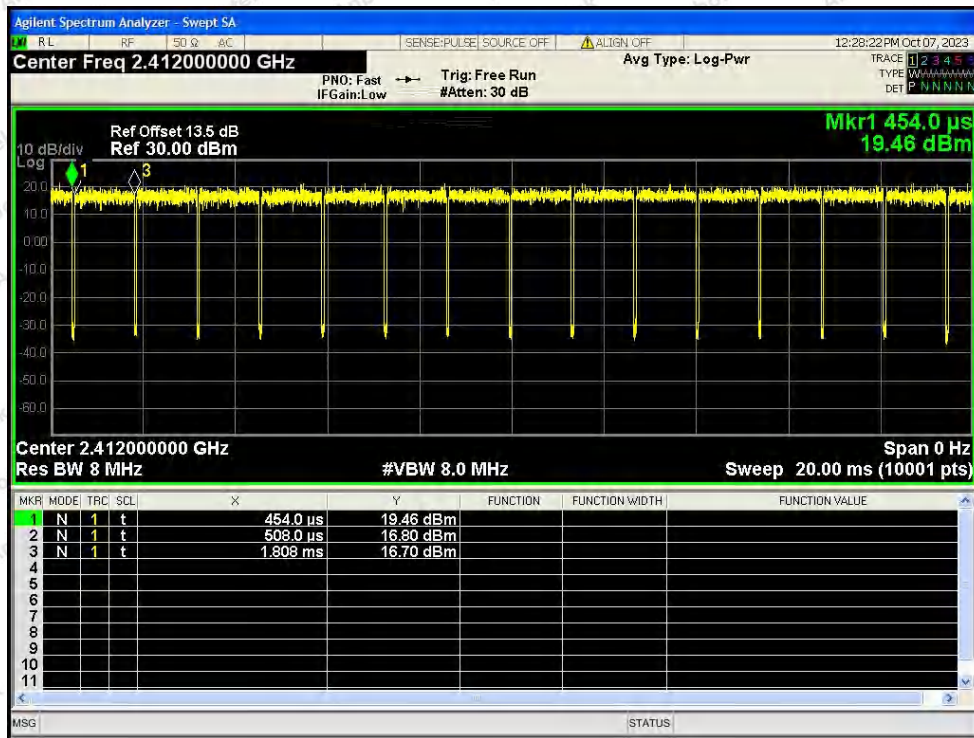
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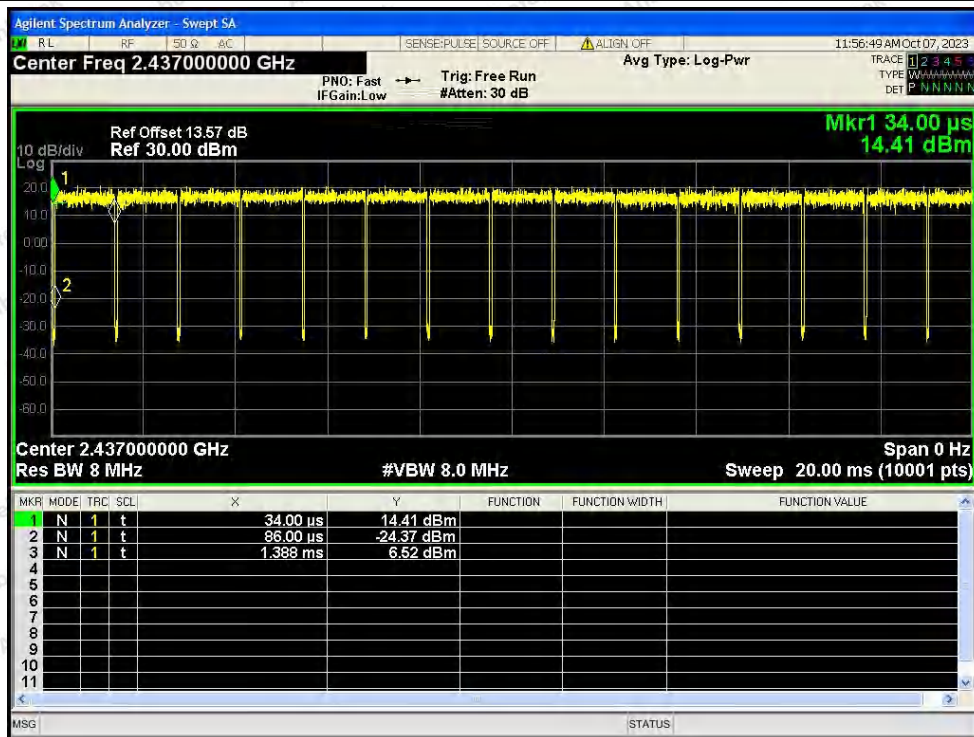
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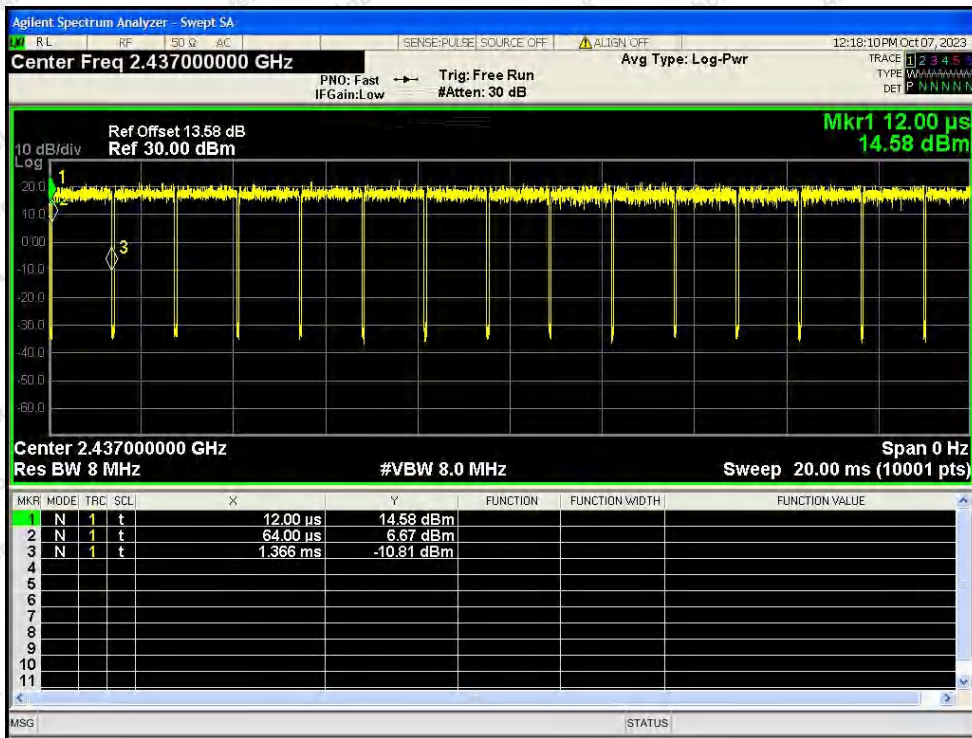
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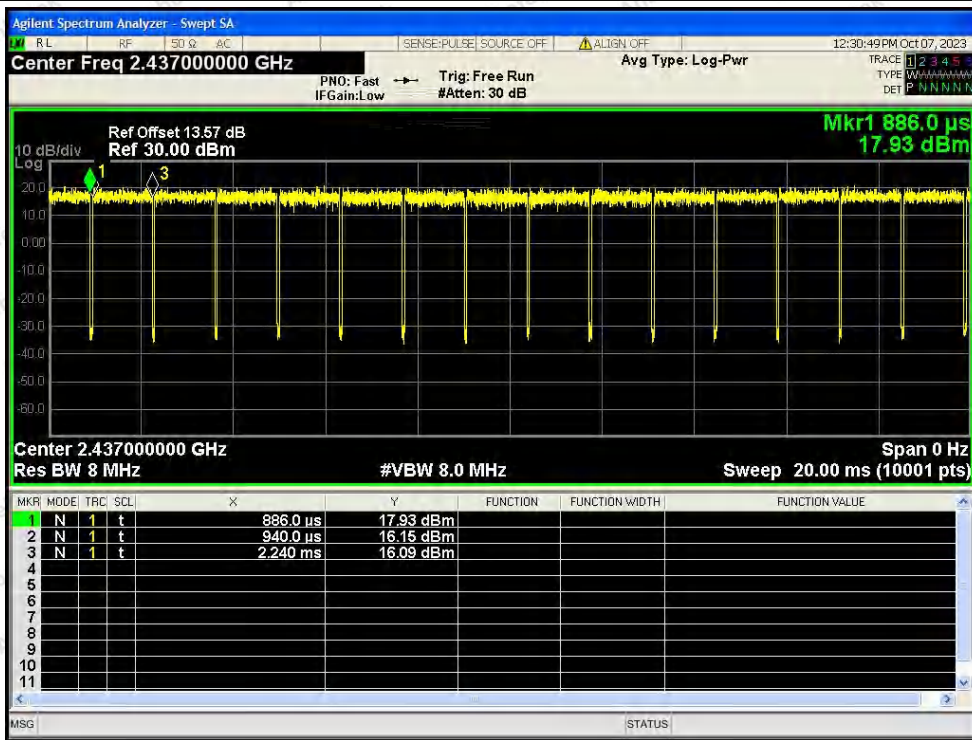
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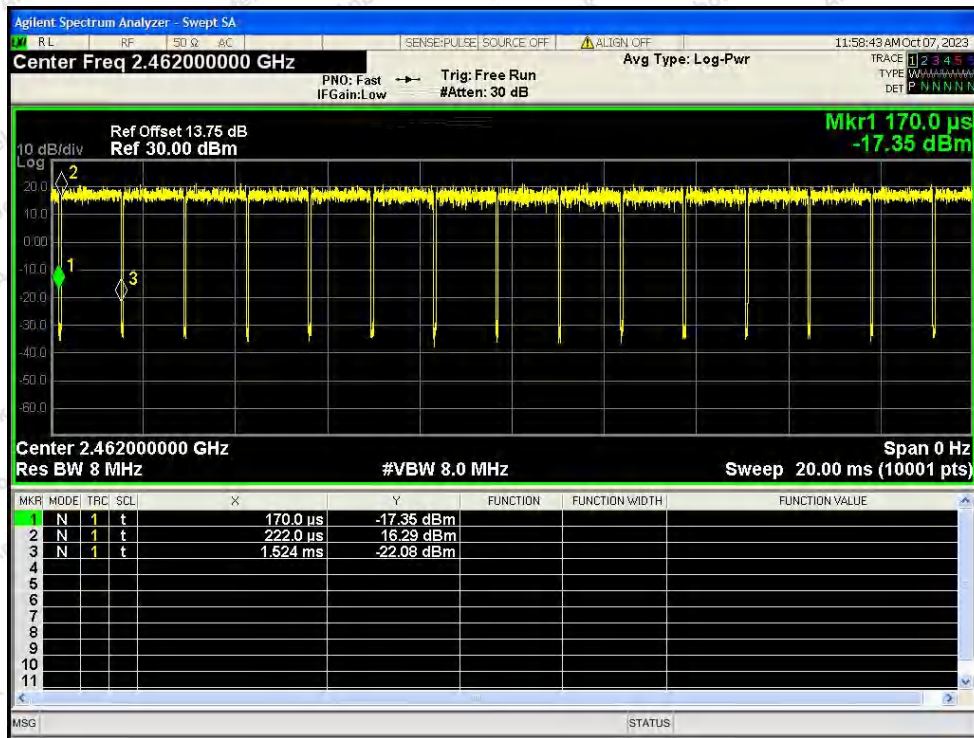
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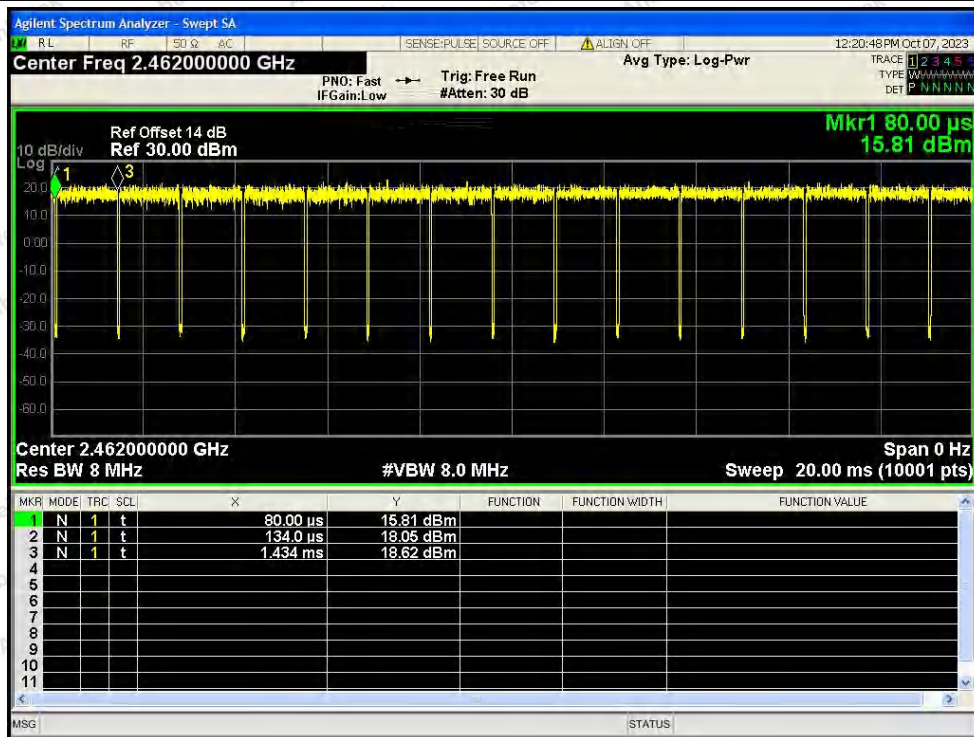
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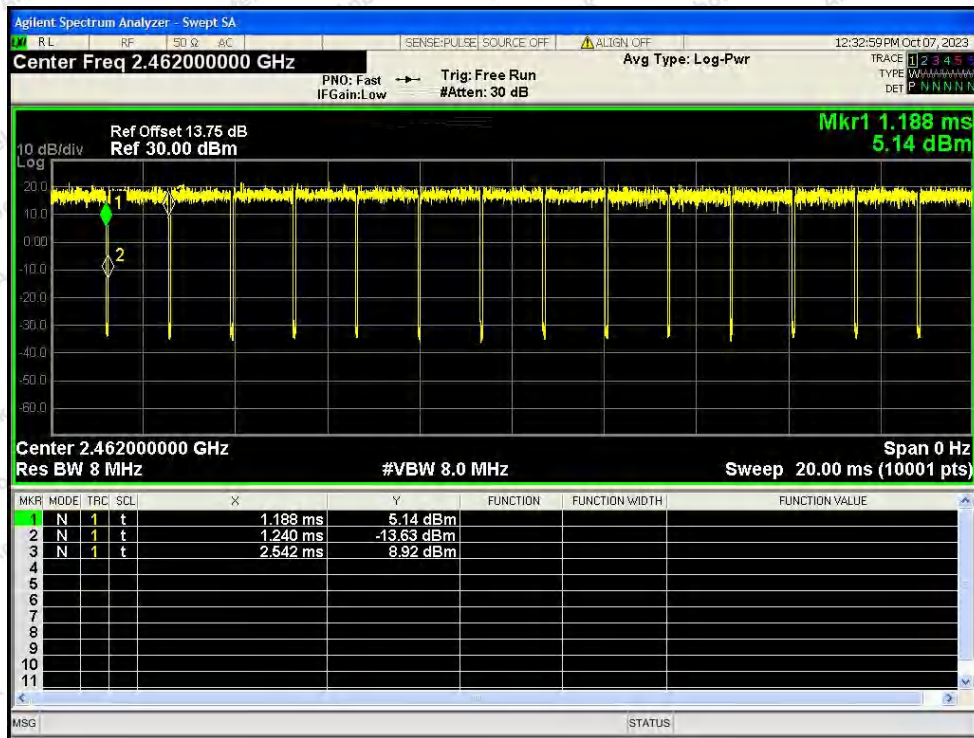
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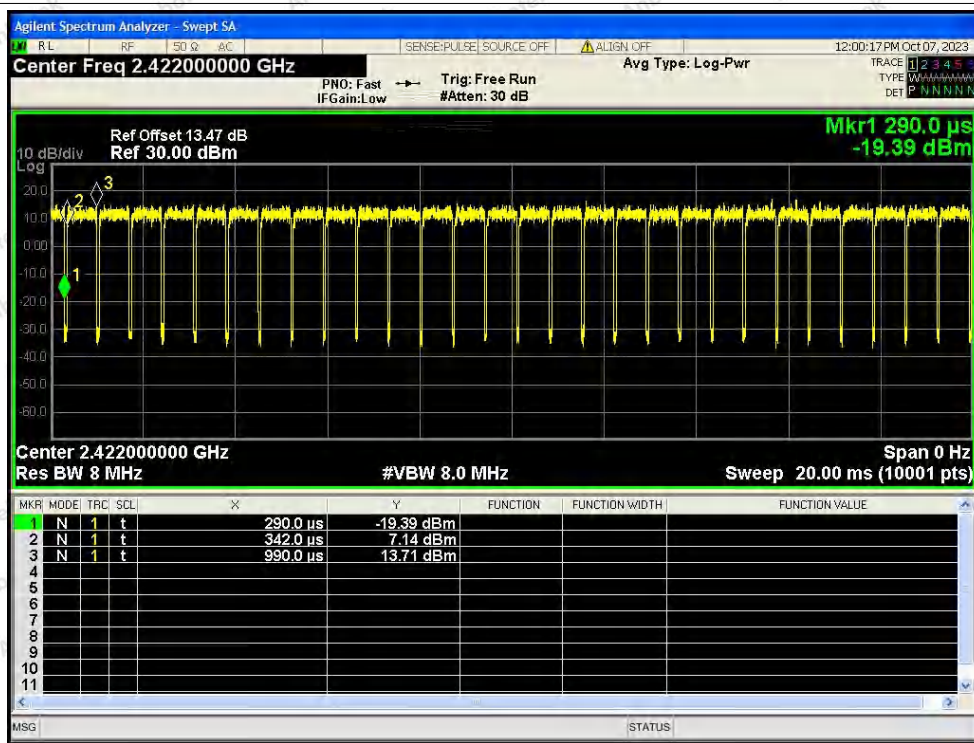
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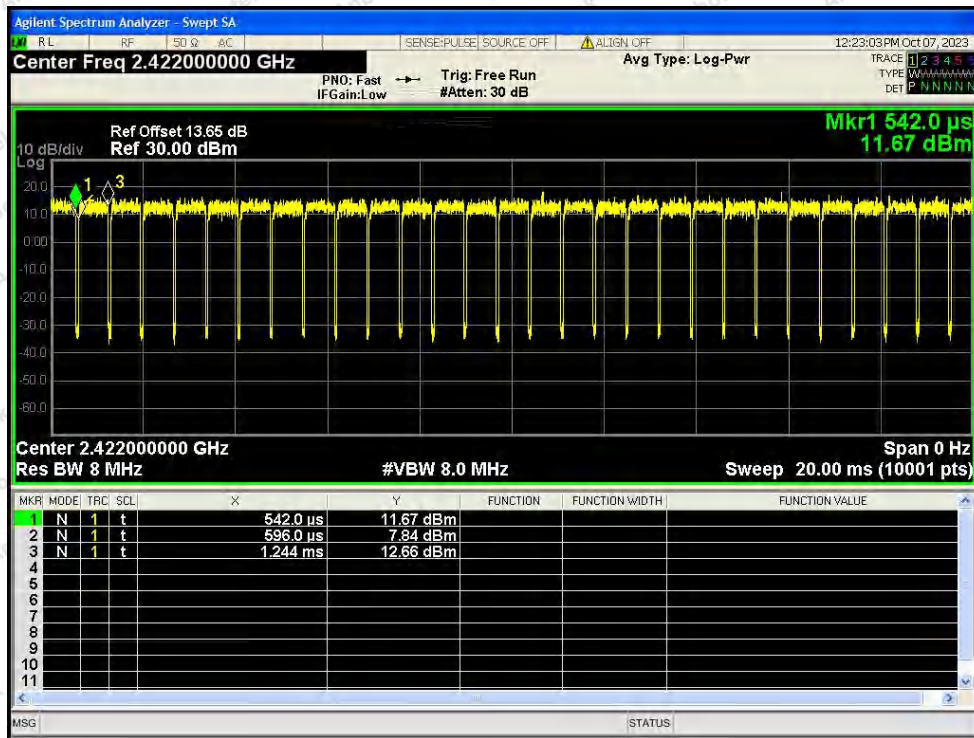
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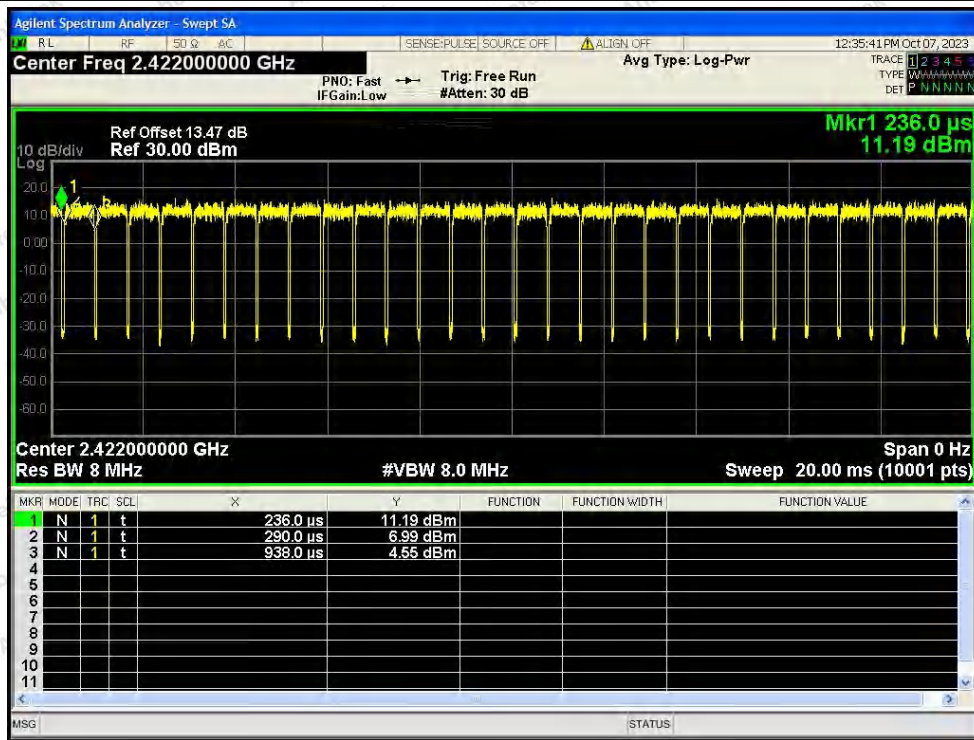
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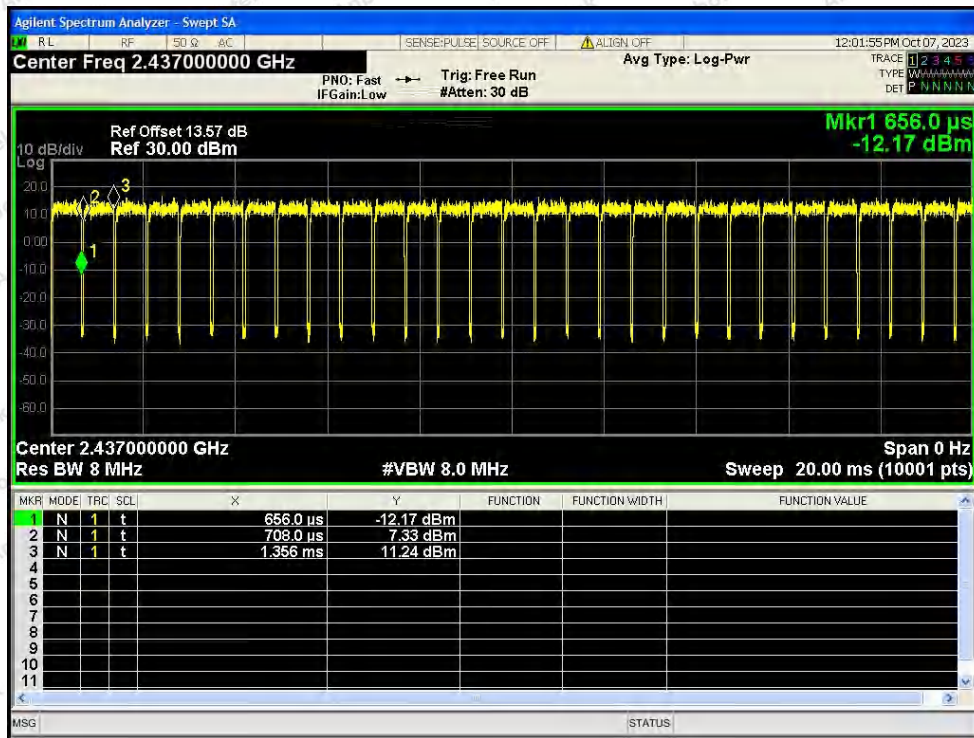
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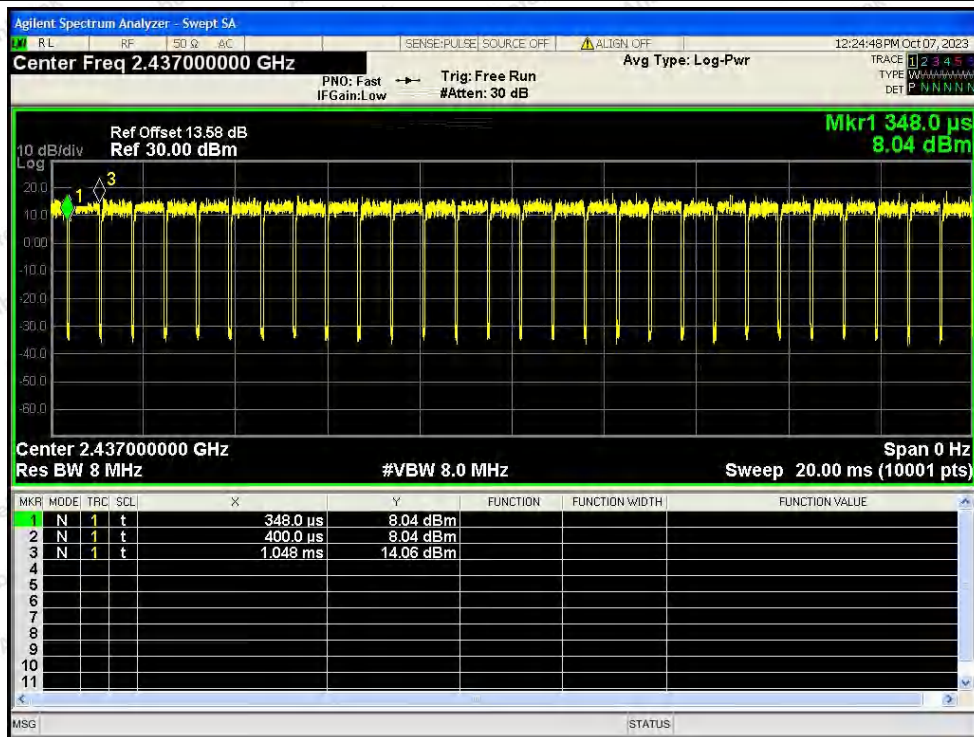
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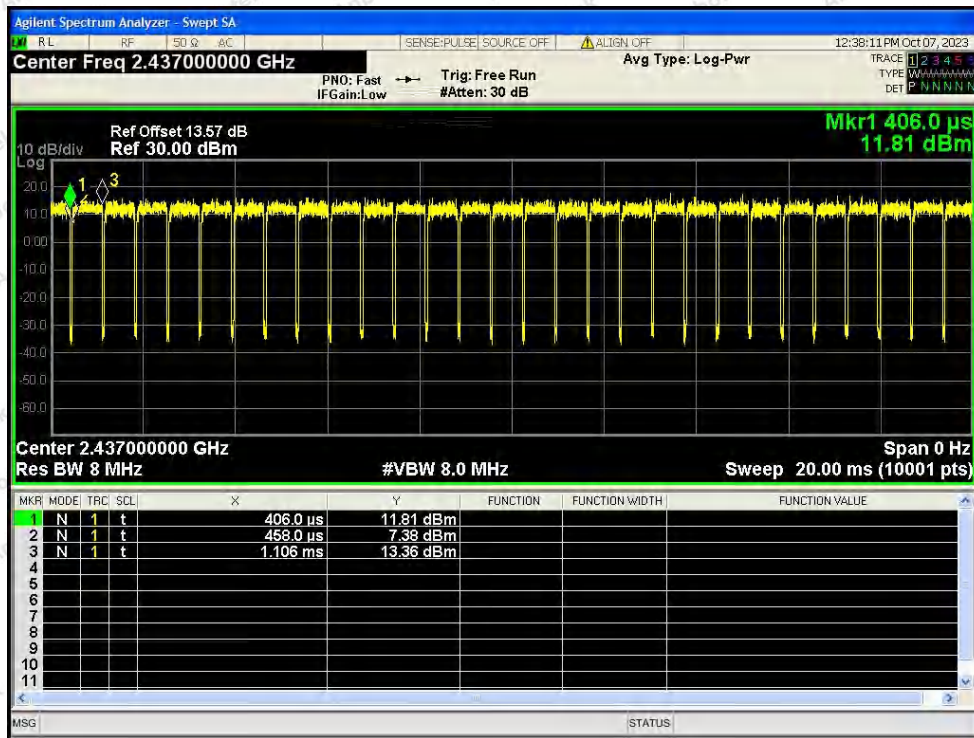
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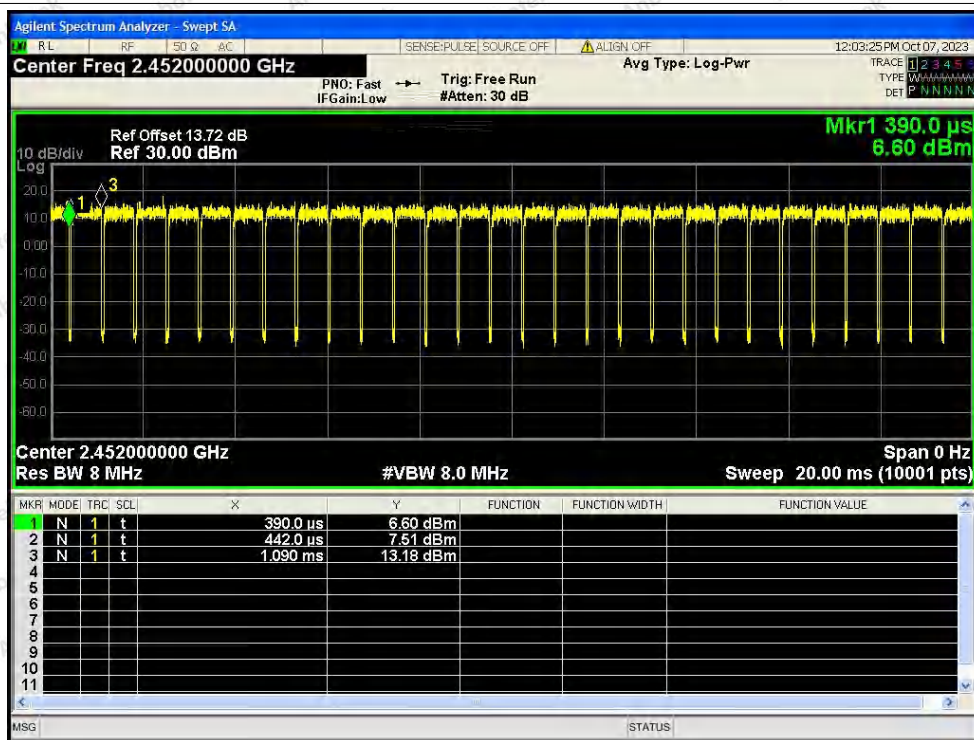
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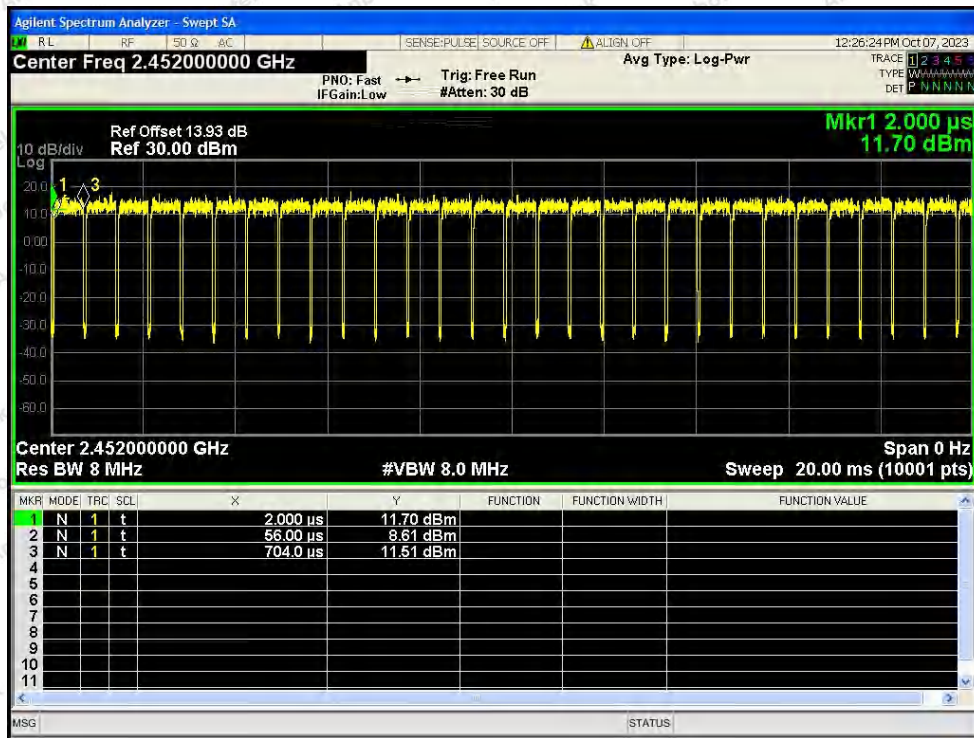
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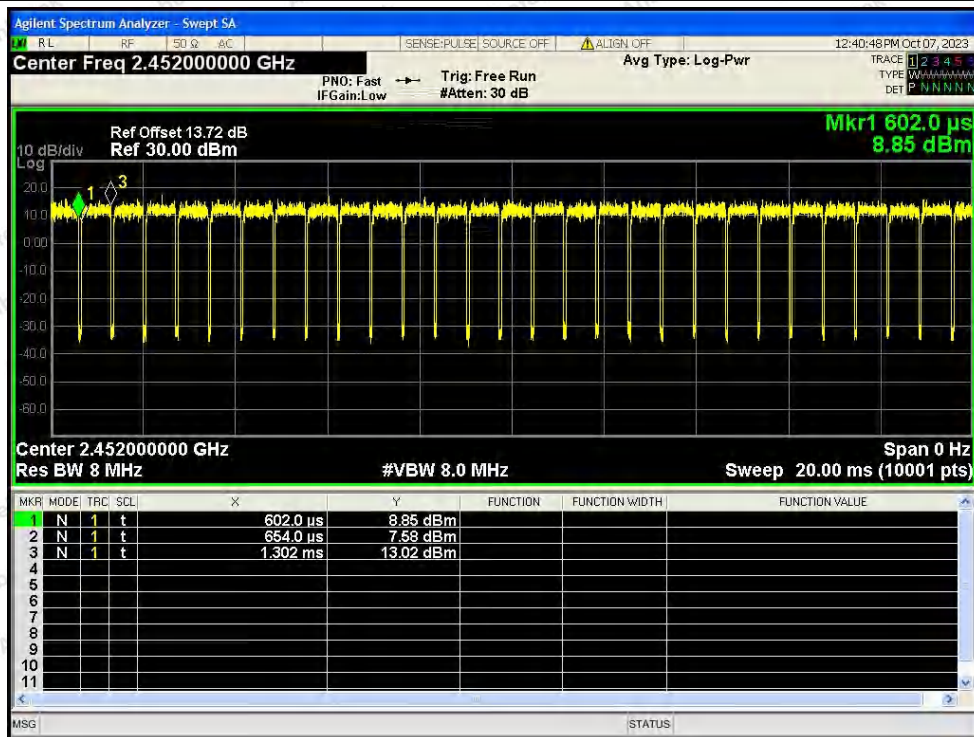
Duty Cycle NVNT n40 2452MHz Ant1 SISO



Duty Cycle NVNT n40 2452MHz Ant2 SISO



Duty Cycle NVNT n40 2452MHz Sum MIMO



A.2. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b SISO	2412	Ant1	18.02	0	18.02	0.06339	30	Pass
NVNT	b SISO	2412	Ant2	18.79	0	18.79	0.07568	30	Pass
NVNT	b SISO	2437	Ant1	18.55	0	18.55	0.07161	30	Pass
NVNT	b SISO	2437	Ant2	18.91	0	18.91	0.0778	30	Pass
NVNT	b SISO	2462	Ant1	18.55	0	18.55	0.07161	30	Pass
NVNT	b SISO	2462	Ant2	19.15	0	19.15	0.08222	30	Pass
NVNT	g SISO	2412	Ant1	22.03	0	22.03	0.15959	30	Pass
NVNT	g SISO	2412	Ant2	22.83	0	22.83	0.19187	30	Pass
NVNT	g SISO	2437	Ant1	21.99	0	21.99	0.15812	30	Pass
NVNT	g SISO	2437	Ant2	22.77	0	22.77	0.18923	30	Pass
NVNT	g SISO	2462	Ant1	22.21	0	22.21	0.16634	30	Pass
NVNT	g SISO	2462	Ant2	23.34	0	23.34	0.21577	30	Pass
NVNT	n20 SISO	2412	Ant1	20.64	0	20.64	0.11588	30	Pass
NVNT	n20 SISO	2412	Ant2	21.64	0	21.64	0.14588	30	Pass
NVNT	n20 MIMO	2412	Ant1	21.14	0	21.14	0.13002	30	Pass
NVNT	n20 MIMO	2412	Ant2	22.41	0	22.41	0.17418	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	24.83	0.3042	30	Pass
NVNT	n20 SISO	2437	Ant1	20.72	0	20.72	0.11803	30	Pass
NVNT	n20 SISO	2437	Ant2	21.18	0	21.18	0.13122	30	Pass

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	SISO								
NVNT	n20 MIMO	2437	Ant1	20.87	0	20.87	0.12218	30	Pass
NVNT	n20 MIMO	2437	Ant2	21.96	0	21.96	0.15704	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	24.46	0.27922	30	Pass
NVNT	n20 SISO	2462	Ant1	21.06	0	21.06	0.12764	30	Pass
NVNT	n20 SISO	2462	Ant2	22.02	0	22.02	0.15922	30	Pass
NVNT	n20 MIMO	2462	Ant1	21.21	0	21.21	0.13213	30	Pass
NVNT	n20 MIMO	2462	Ant2	22.62	0	22.62	0.18281	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	24.98	0.31494	30	Pass
NVNT	n40 SISO	2422	Ant1	18.95	0	18.95	0.07852	30	Pass
NVNT	n40 SISO	2422	Ant2	19.78	0	19.78	0.09506	30	Pass
NVNT	n40 MIMO	2422	Ant1	19.02	0	19.02	0.0798	30	Pass
NVNT	n40 MIMO	2422	Ant2	20.48	0	20.48	0.11169	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	22.82	0.19149	30	Pass
NVNT	n40 SISO	2437	Ant1	19.07	0	19.07	0.08072	30	Pass
NVNT	n40 SISO	2437	Ant2	19.85	0	19.85	0.09661	30	Pass
NVNT	n40 MIMO	2437	Ant1	19.23	0	19.23	0.08375	30	Pass
NVNT	n40 MIMO	2437	Ant2	20.33	0	20.33	0.10789	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	22.83	0.19165	30	Pass
NVNT	n40 SISO	2452	Ant1	19.26	0	19.26	0.08433	30	Pass
NVNT	n40 SISO	2452	Ant2	20.23	0	20.23	0.10544	30	Pass
NVNT	n40	2452	Ant1	19.27	0	19.27	0.08453	30	Pass

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NVNT	MIMO n40 MIMO	2452	Ant2	20.63	0	20.63	0.11561	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	23.01	0.20014	30	Pass

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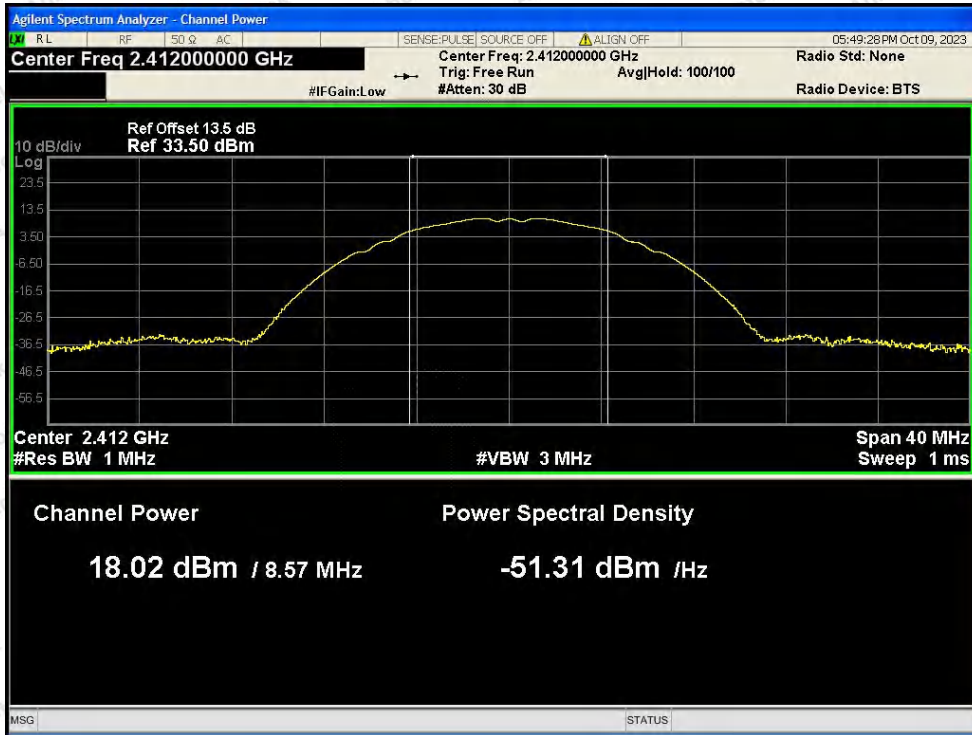


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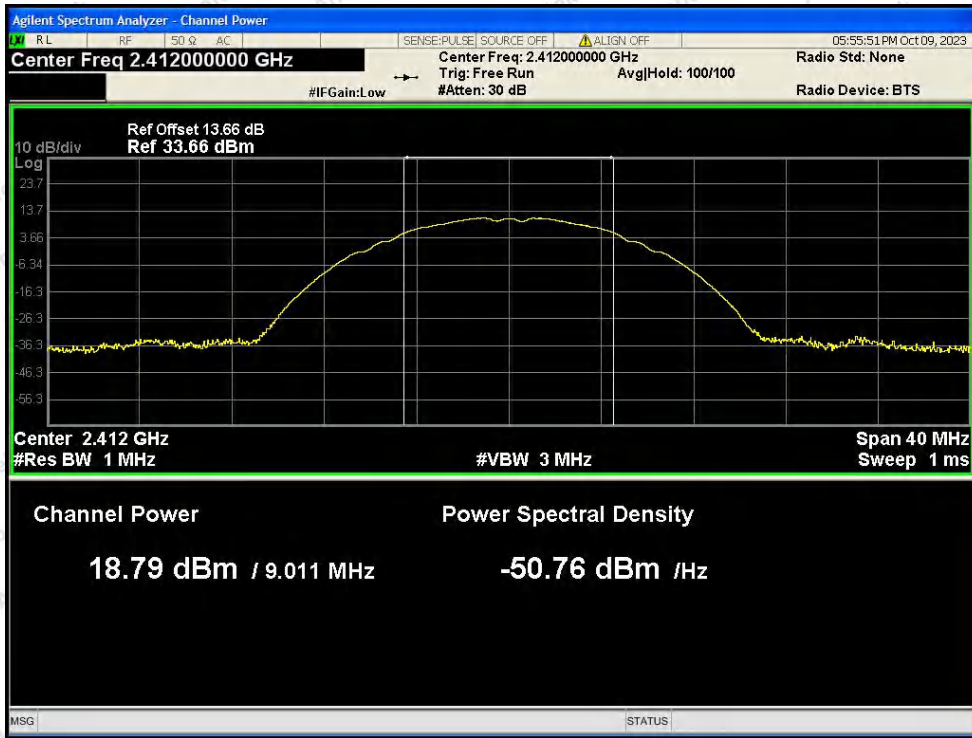


Test Graphs

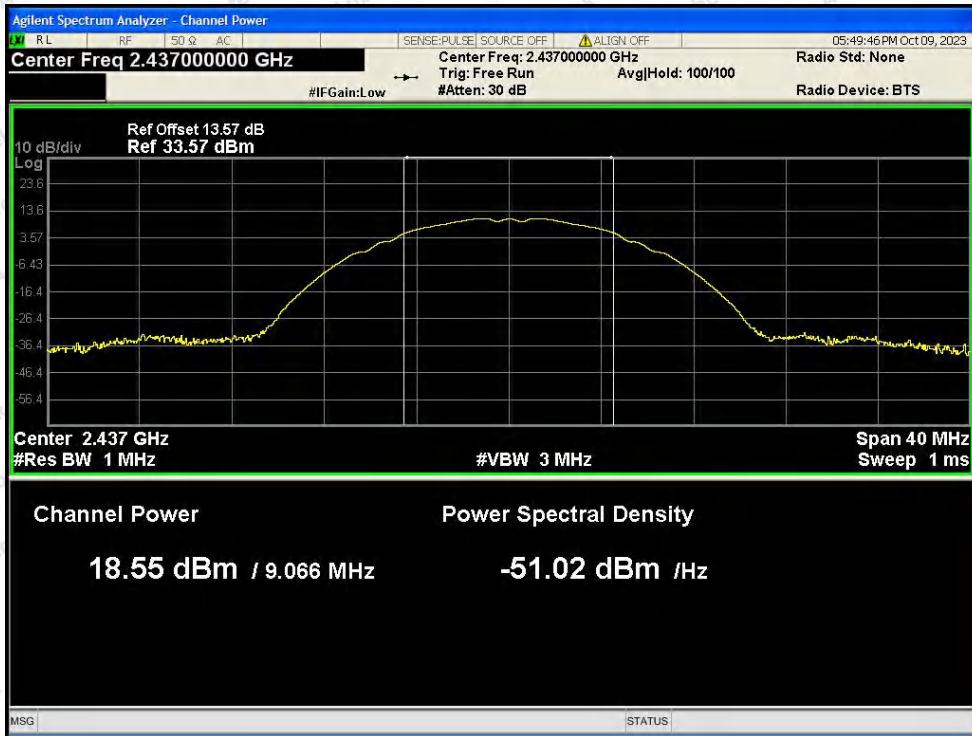
Peak Power NVNT b 2412MHz Ant1 SISO



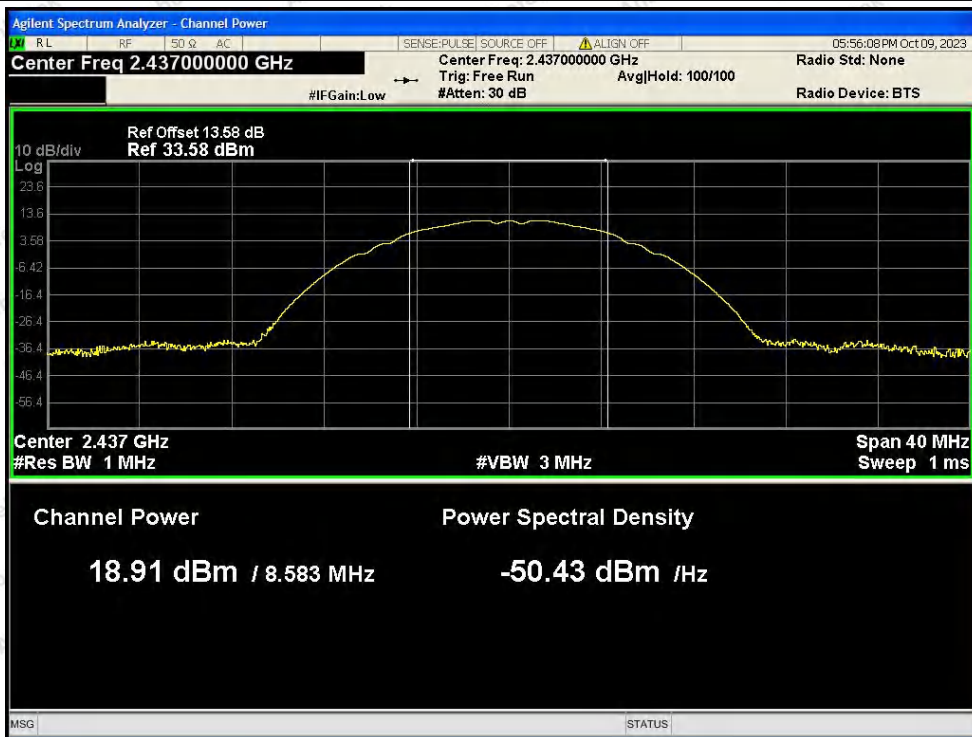
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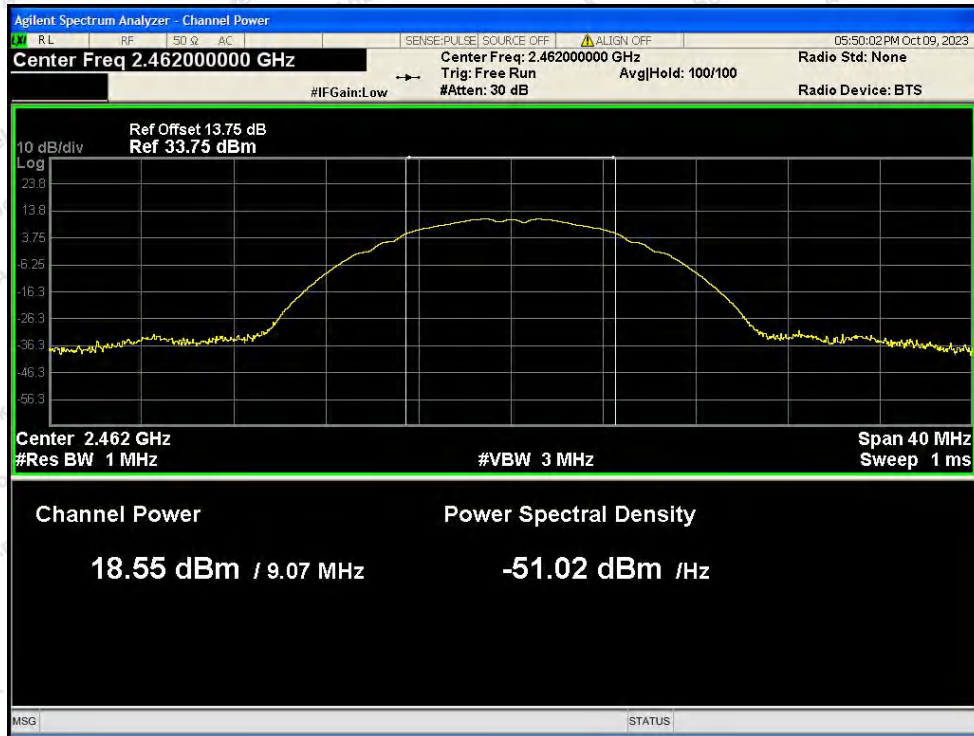
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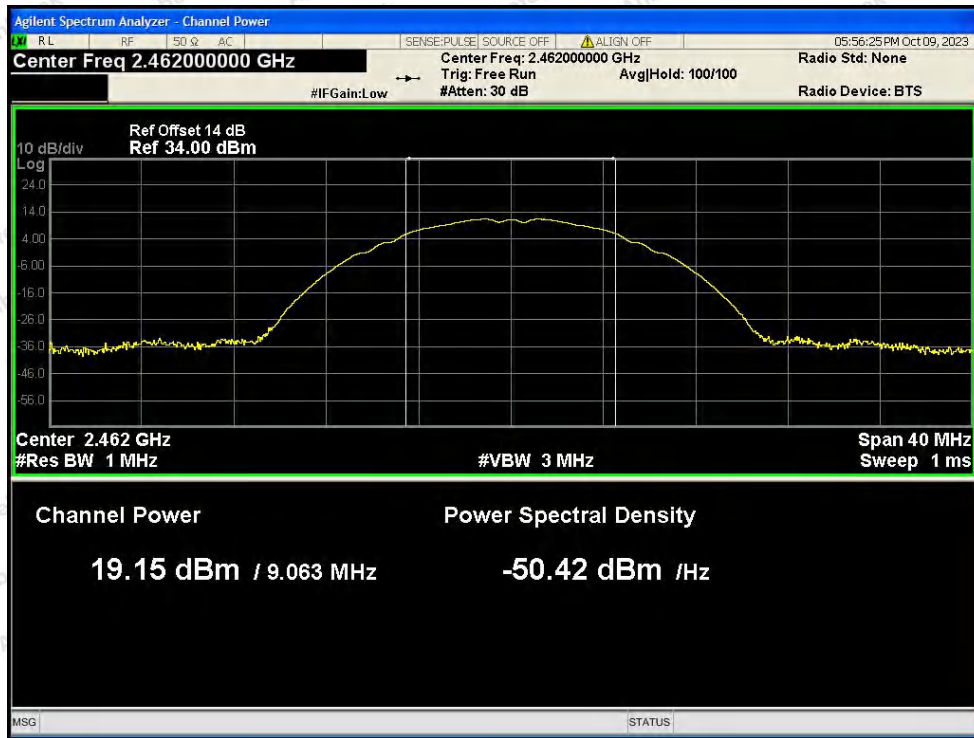
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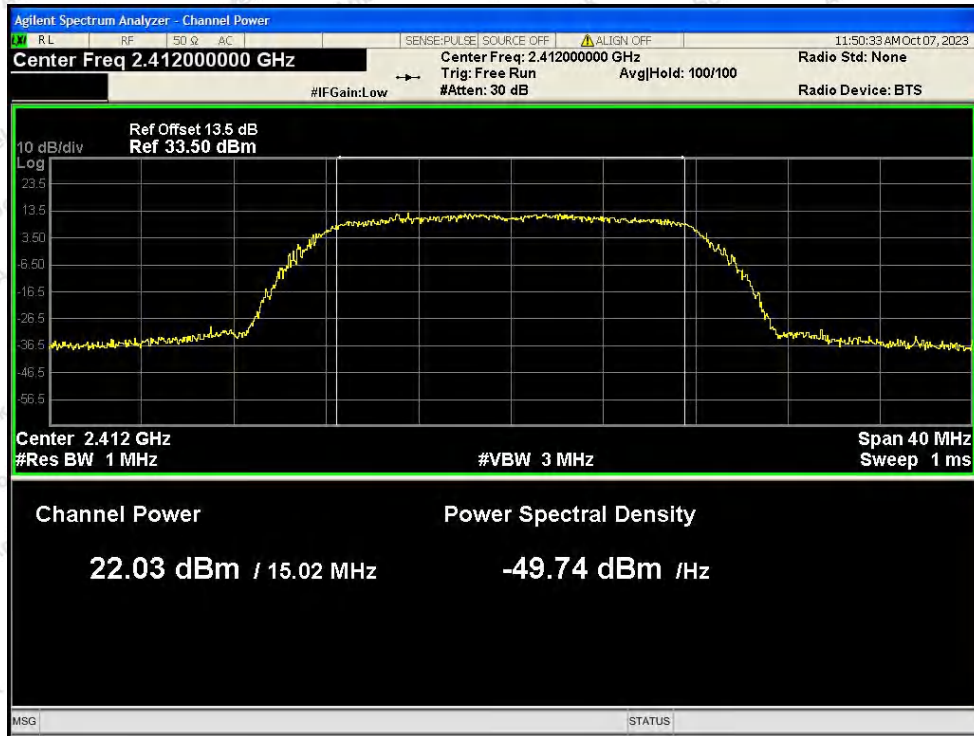
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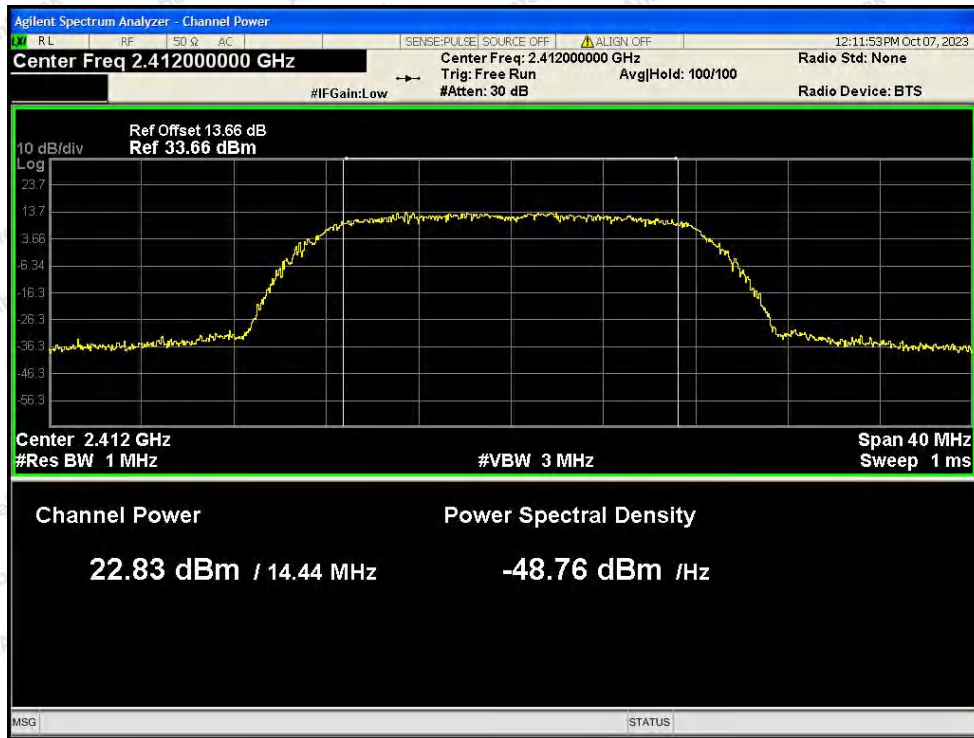
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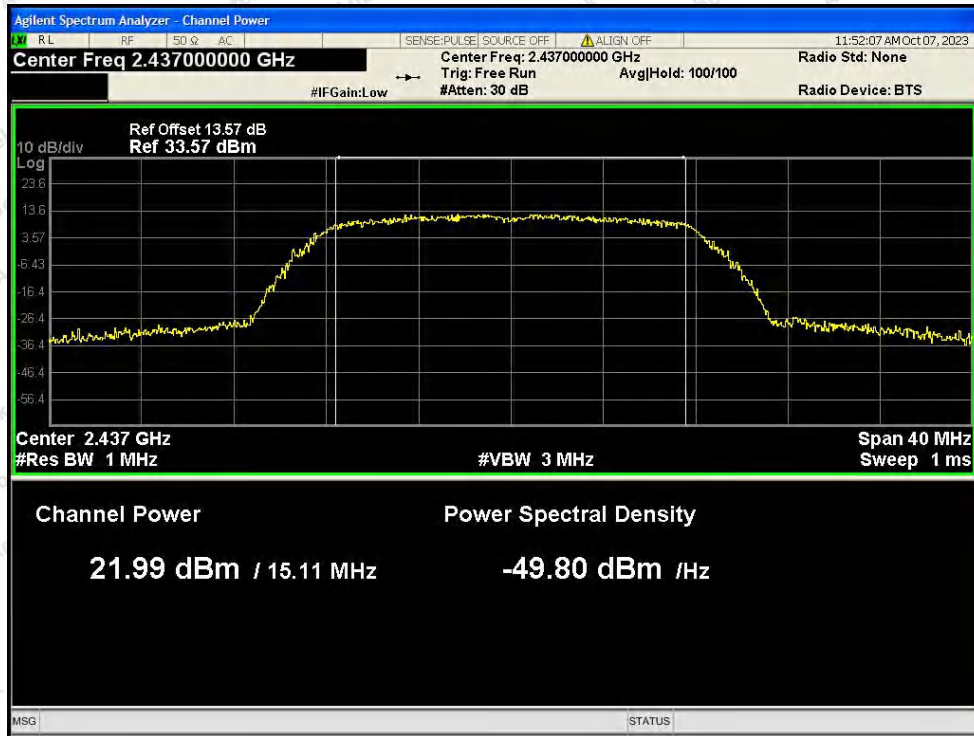
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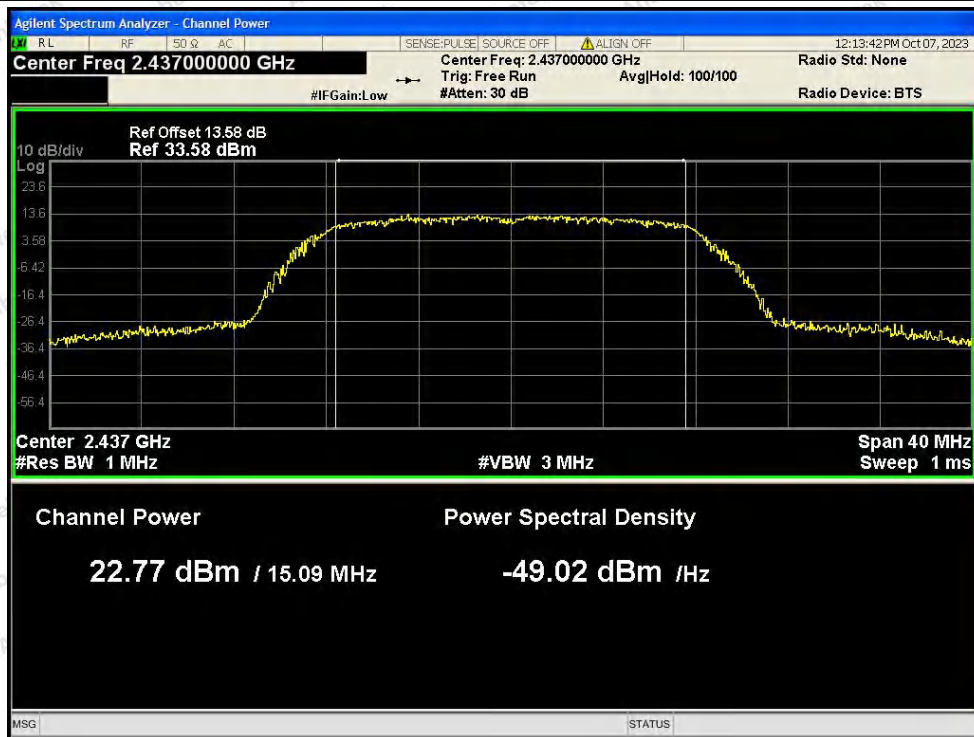
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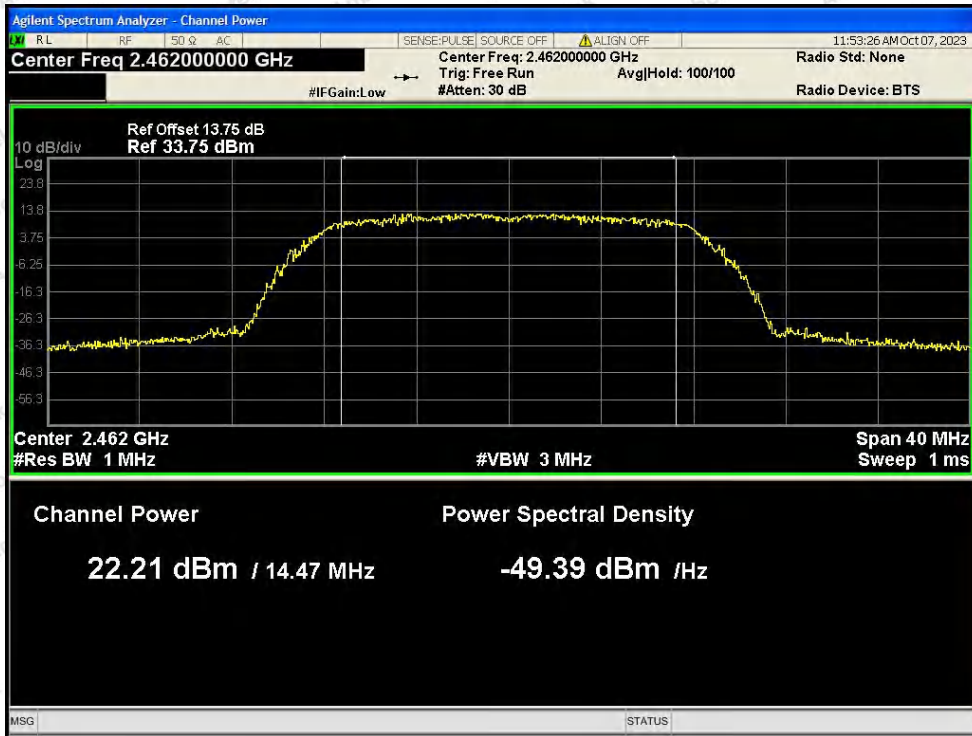
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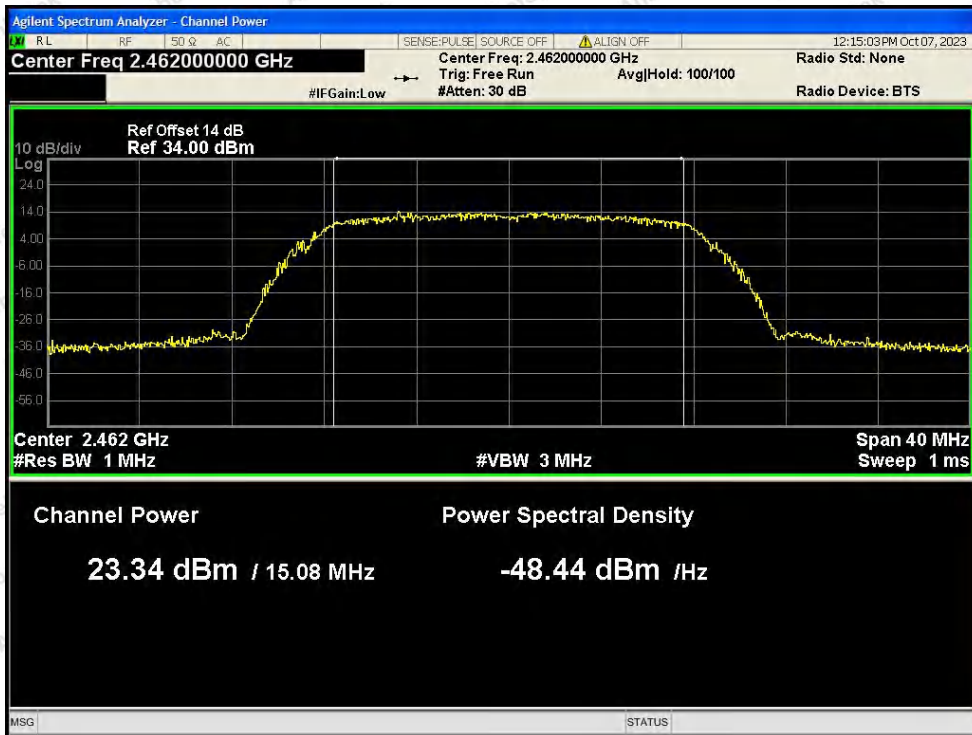
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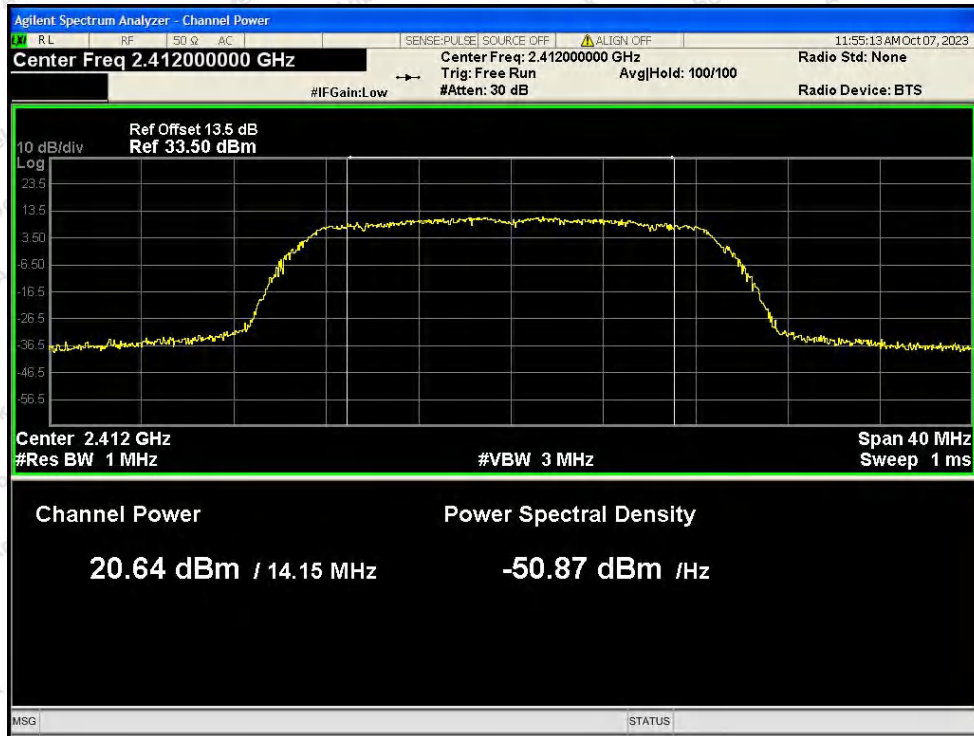
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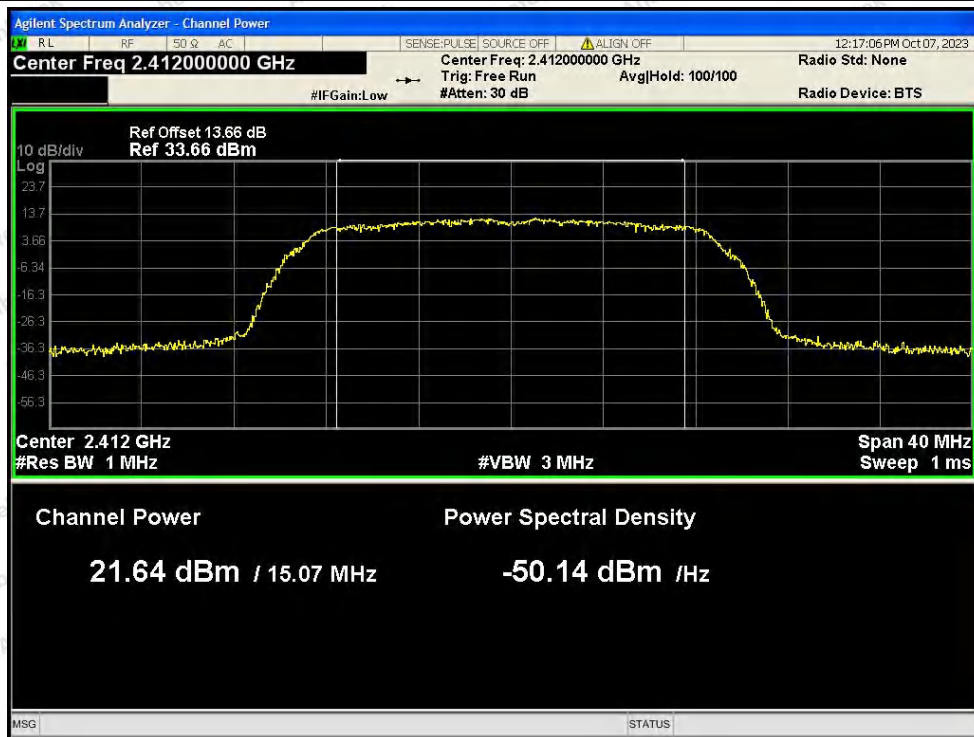
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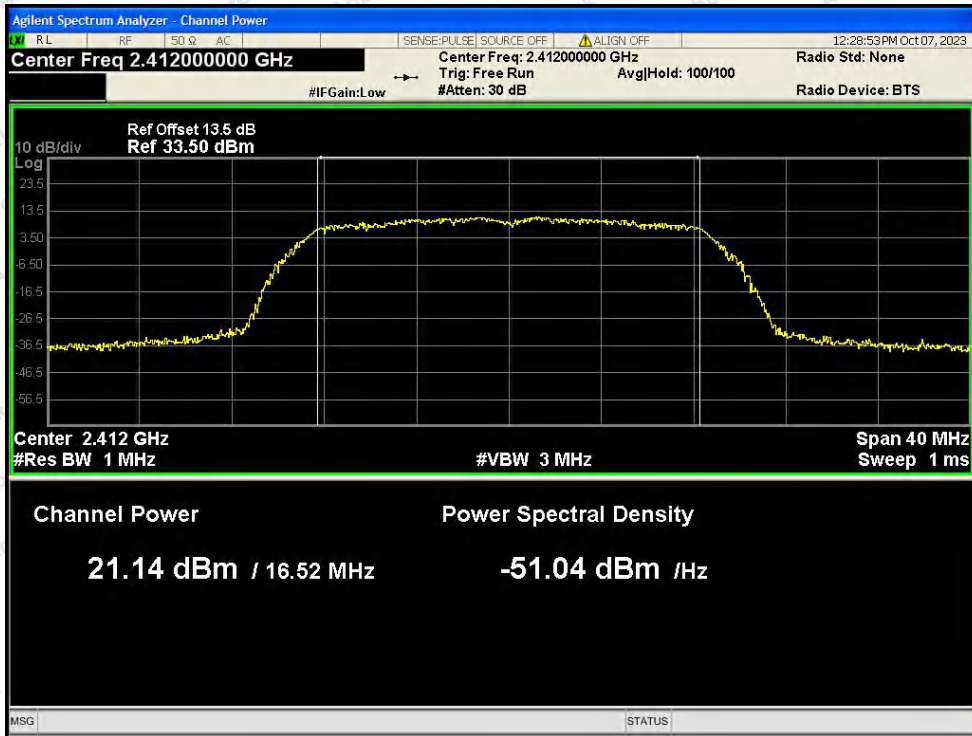
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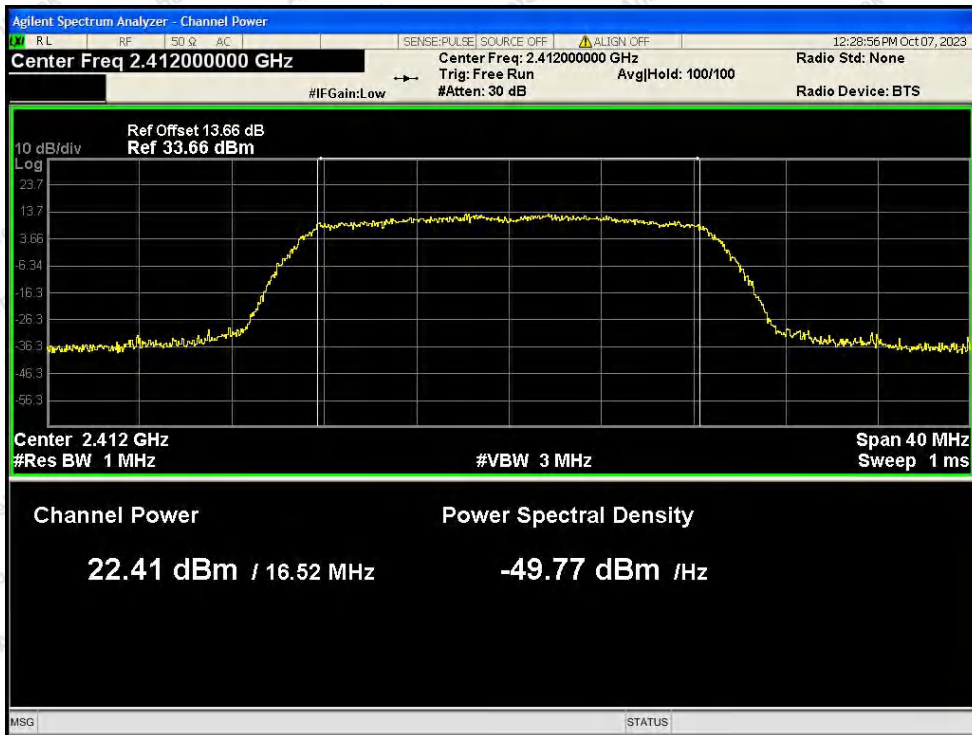
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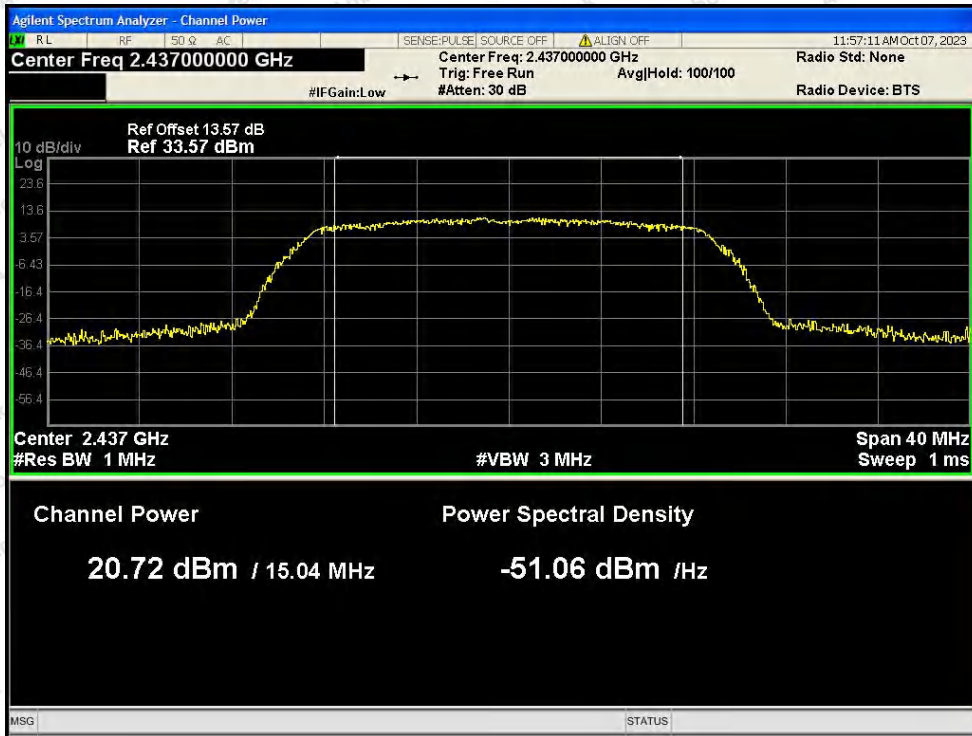
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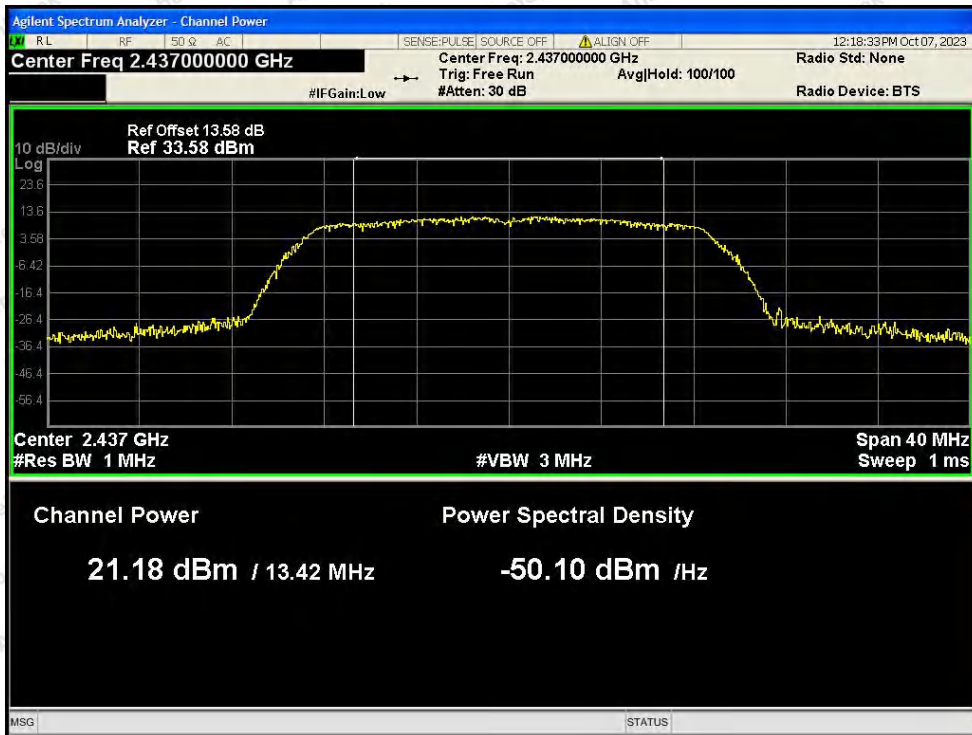
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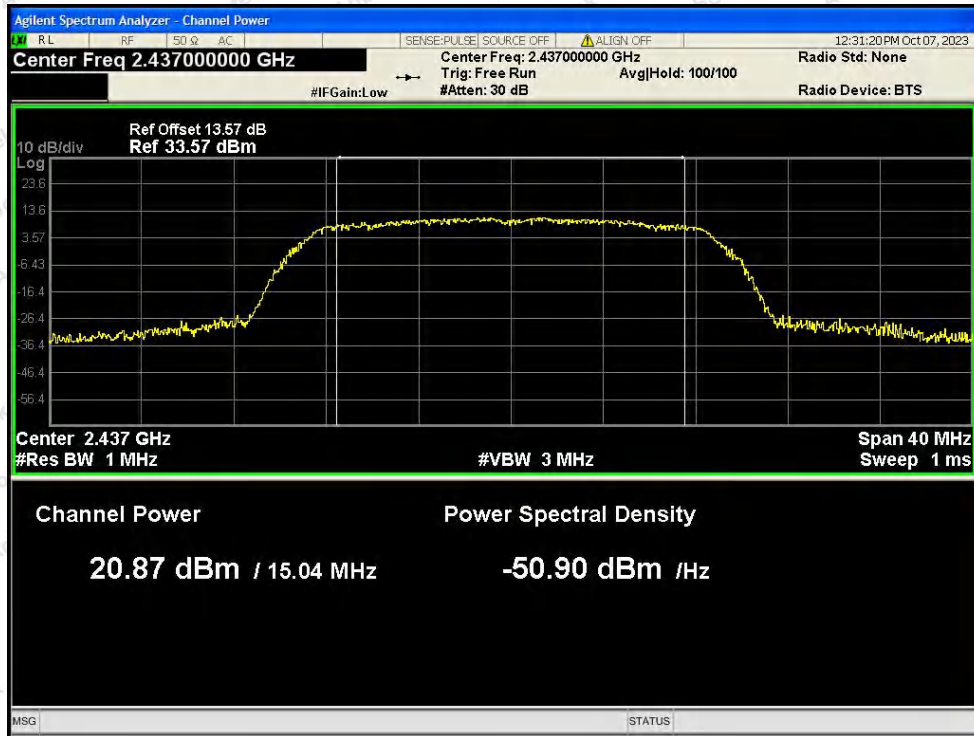
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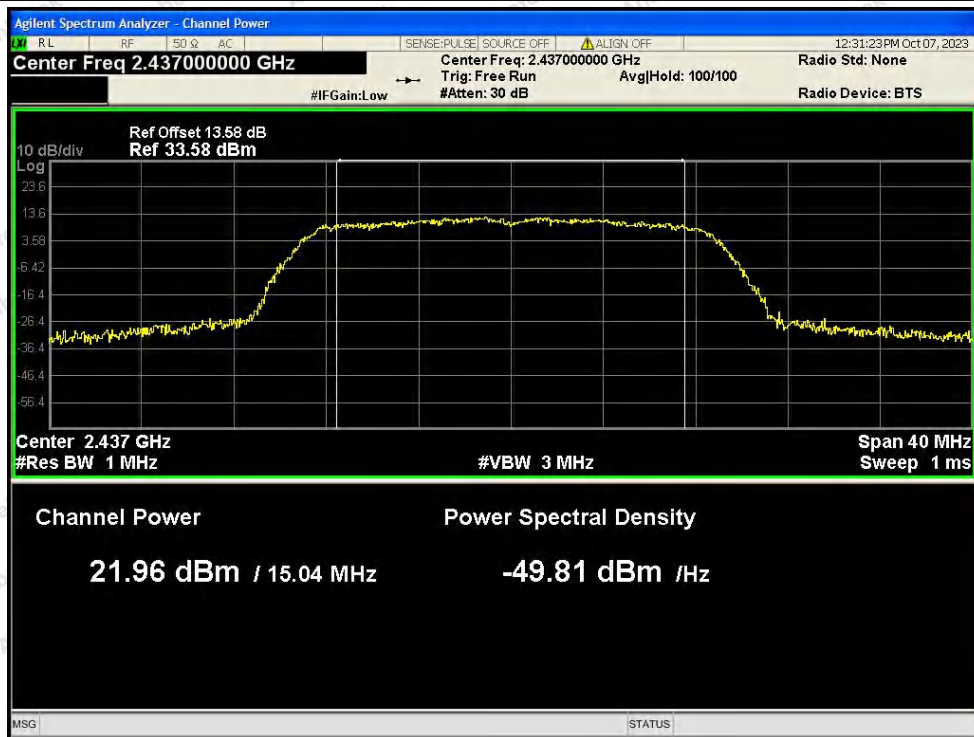
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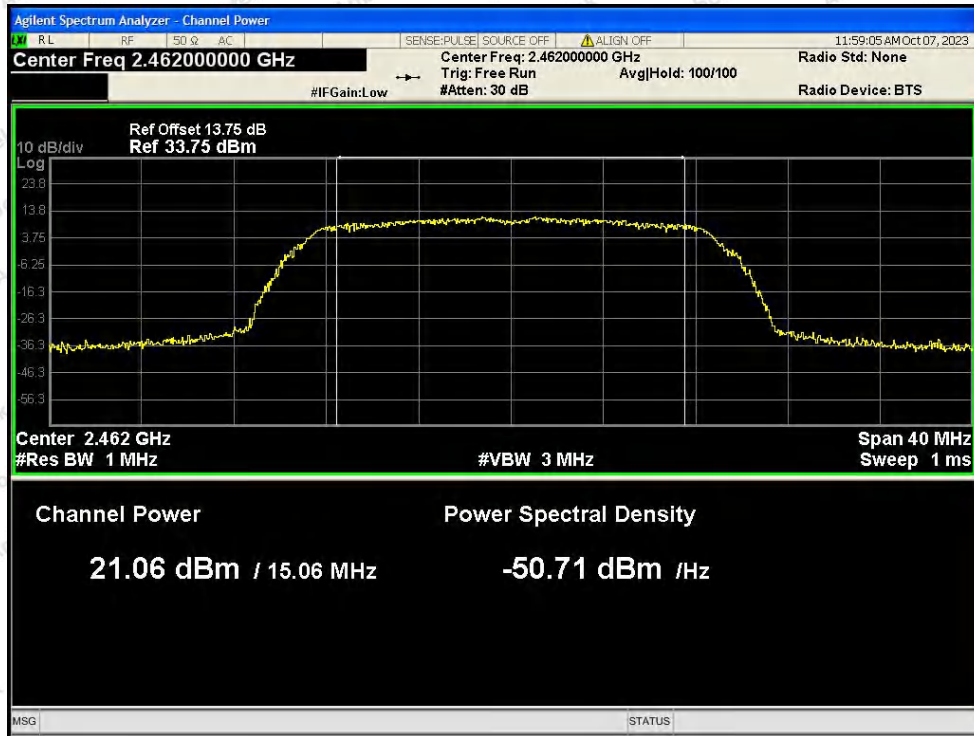
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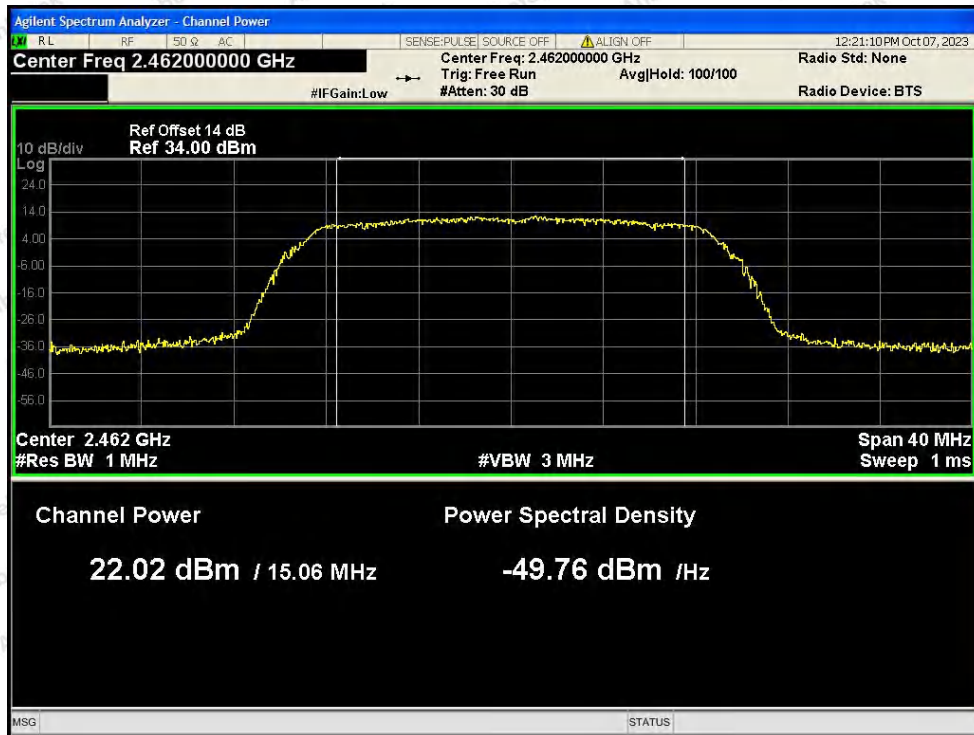
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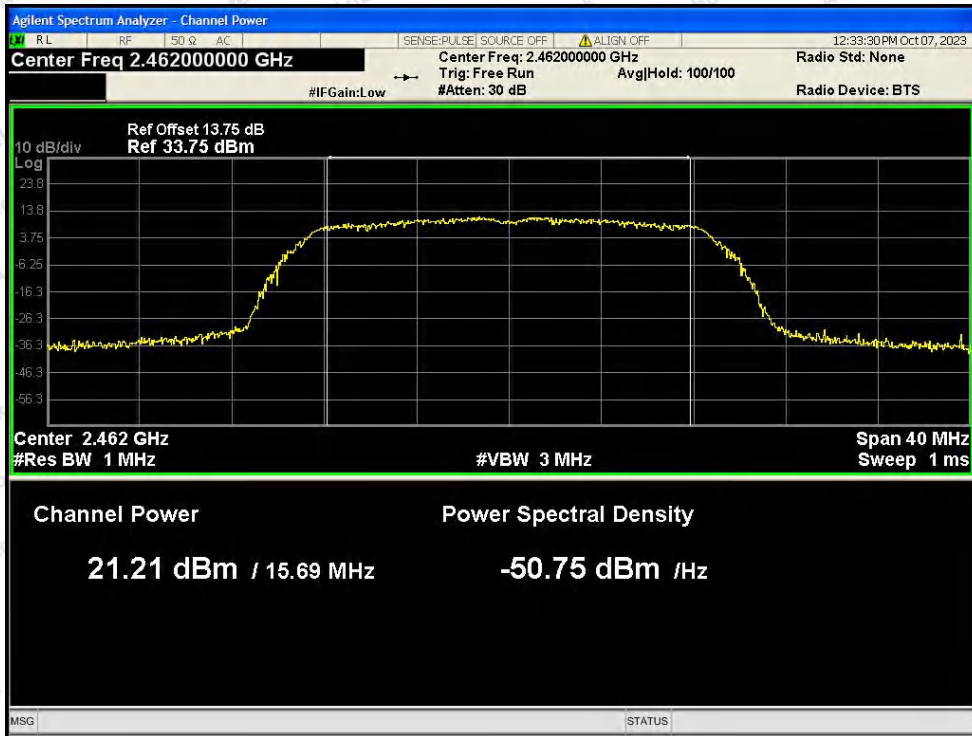
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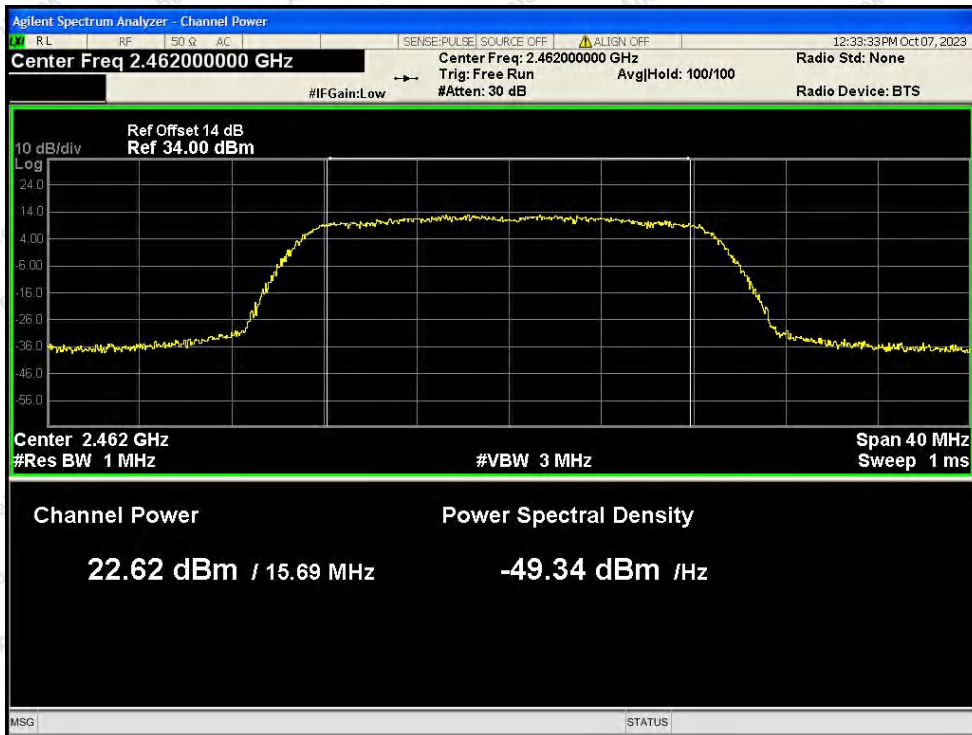
Peak Power NVNT n20 2462MHz Ant2 SISO



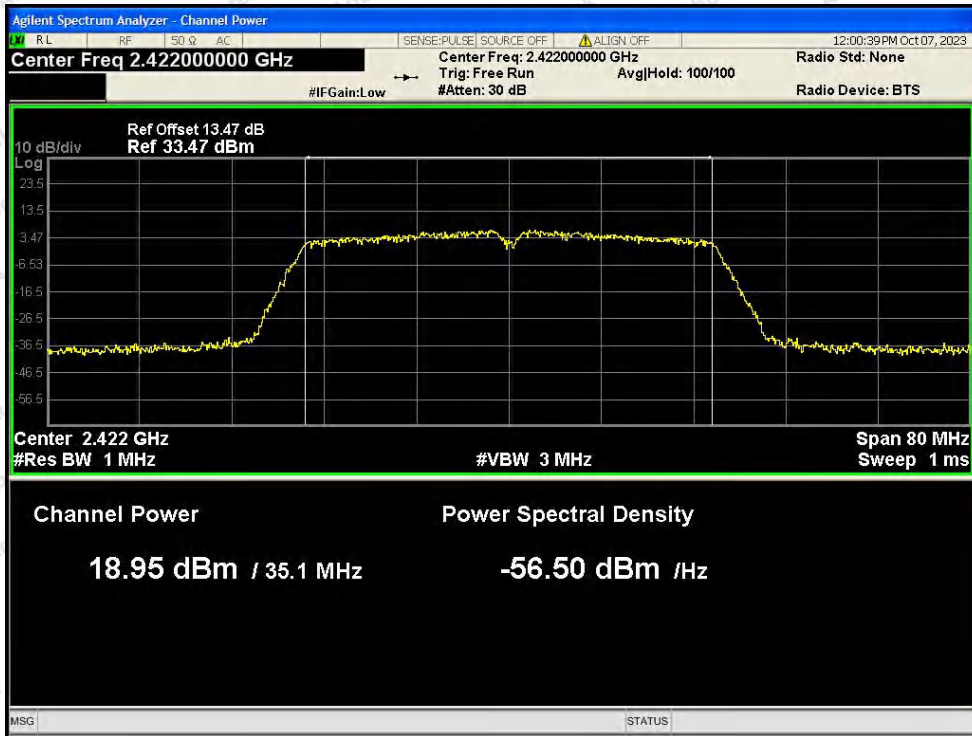
Peak Power NVNT n20 2462MHz Ant1 MIMO



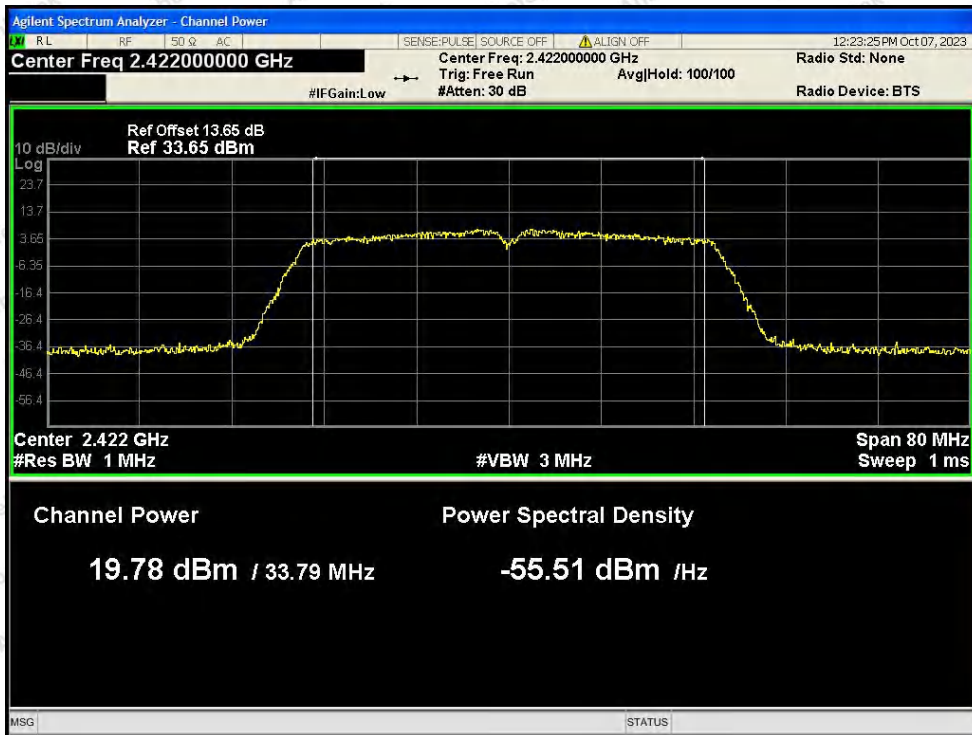
Peak Power NVNT n20 2462MHz Ant2 MIMO



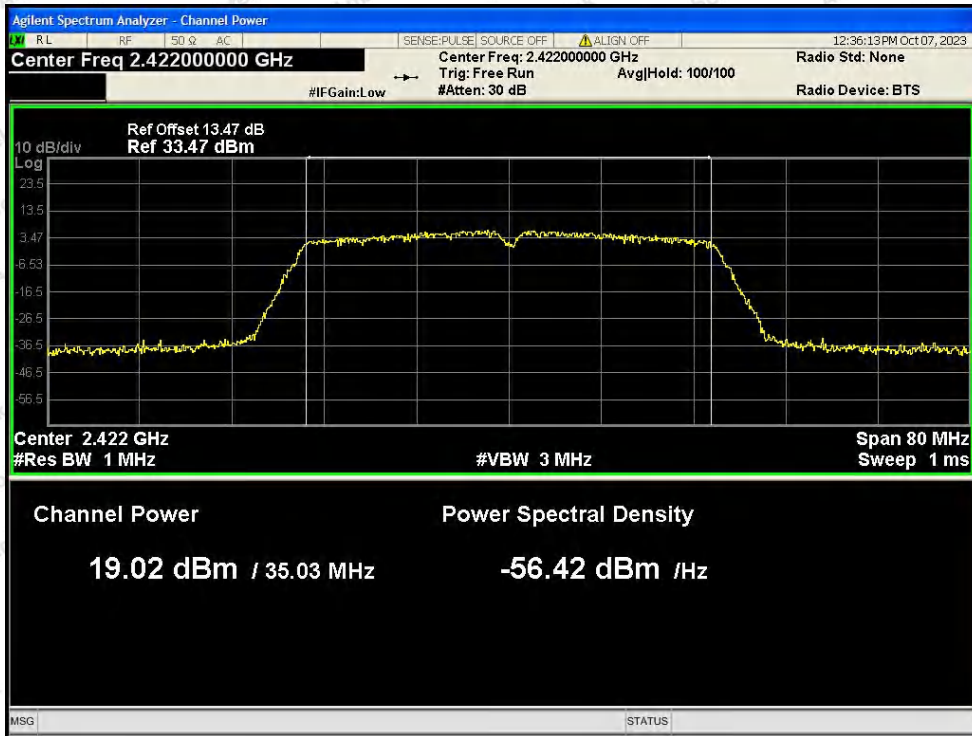
Peak Power NVNT n40 2422MHz Ant1 SISO



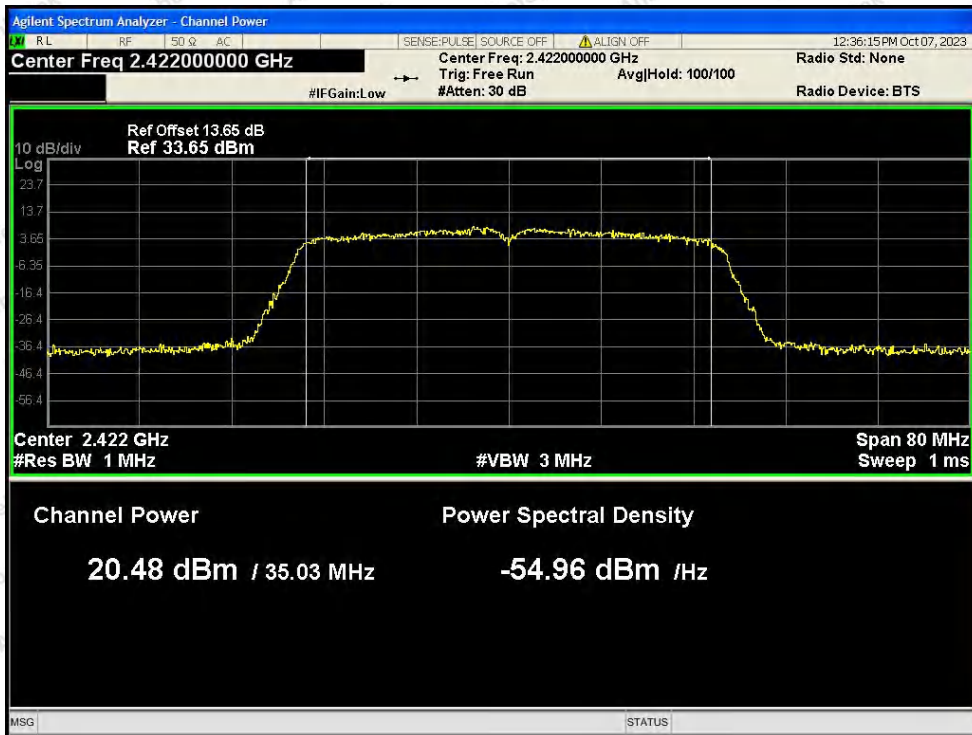
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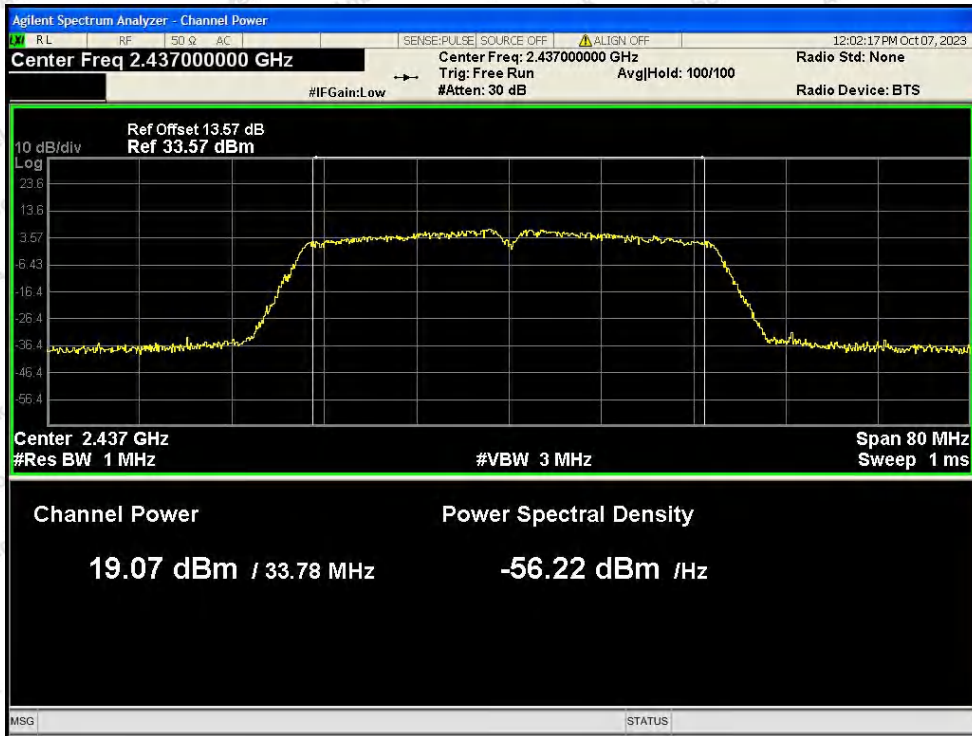
Peak Power NVNT n40 2422MHz Ant1 MIMO



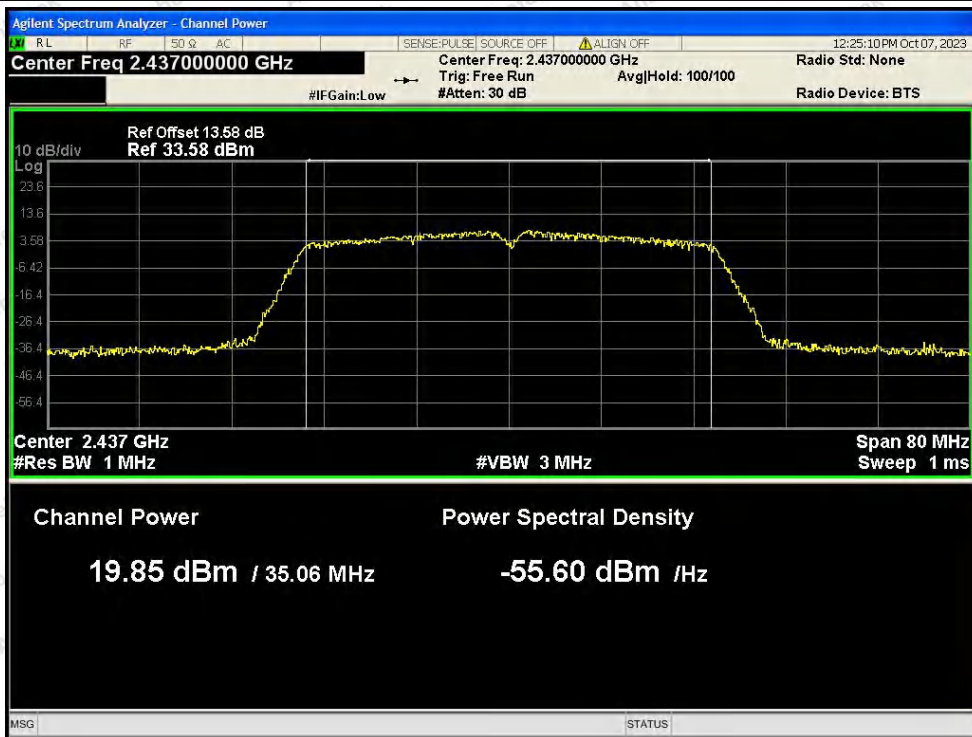
Peak Power NVNT n40 2422MHz Ant2 MIMO



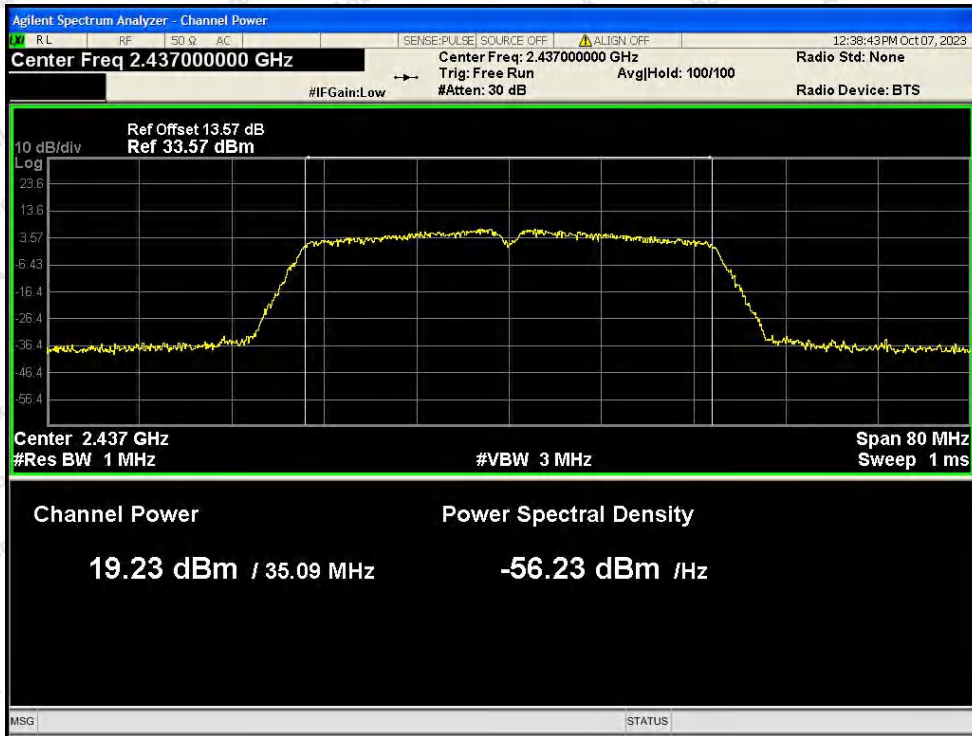
Peak Power NVNT n40 2437MHz Ant1 SISO



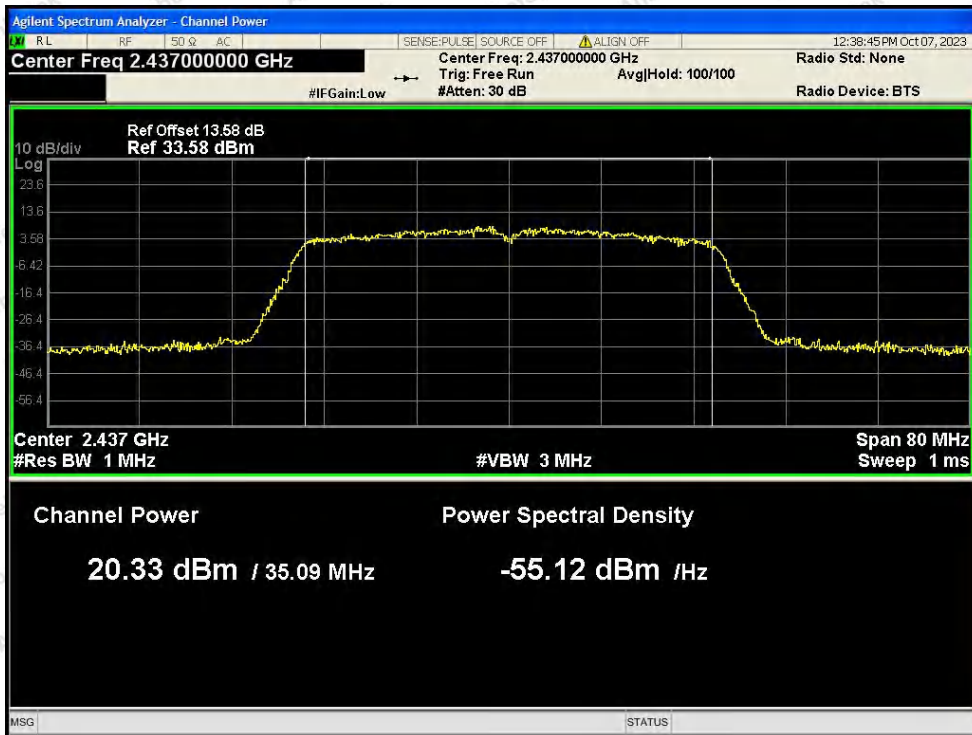
Peak Power NVNT n40 2437MHz Ant2 SISO



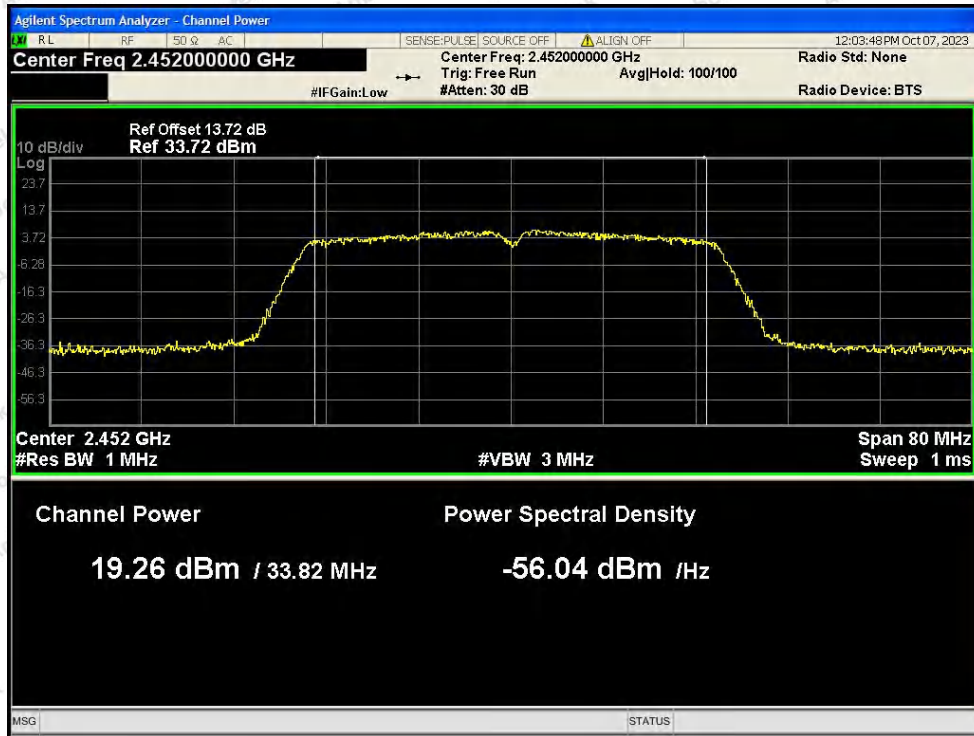
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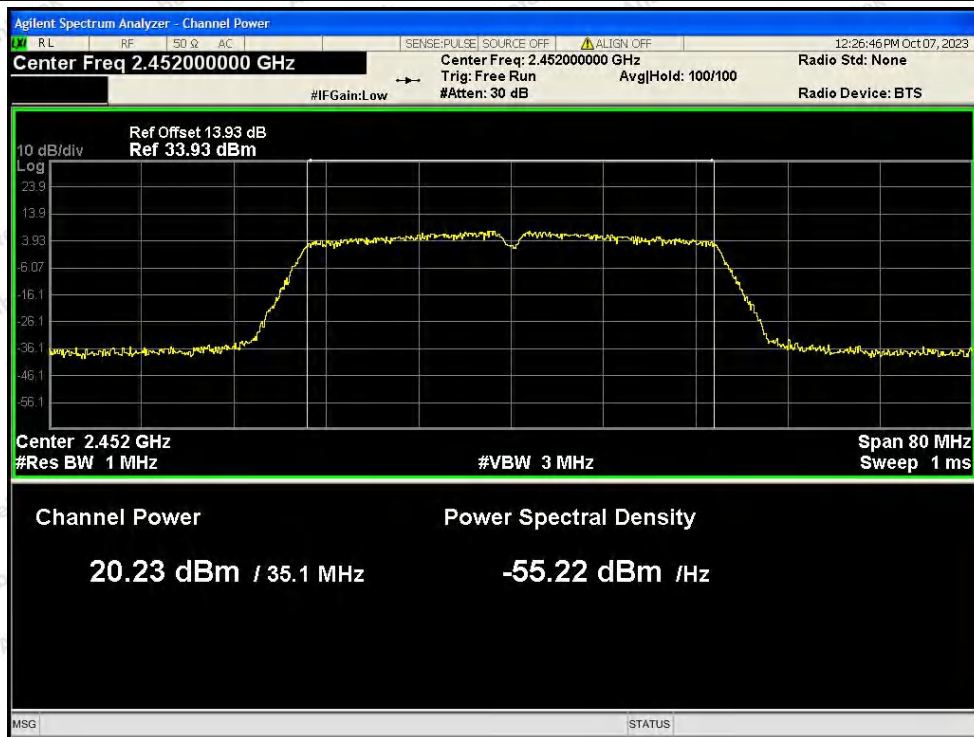
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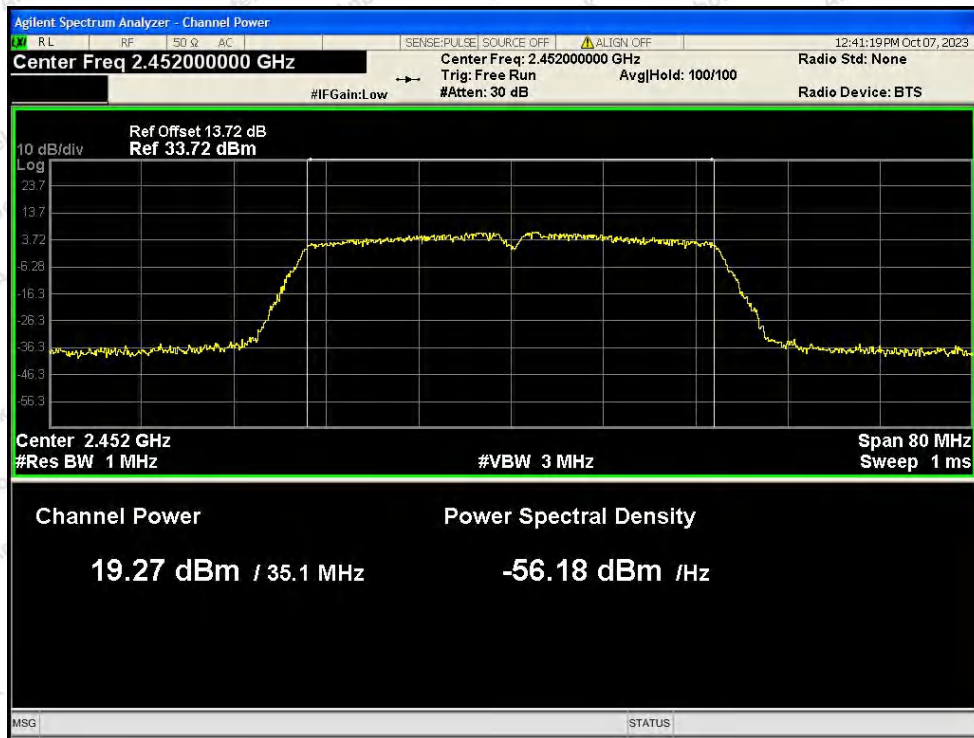
Peak Power NVNT n40 2452MHz Ant1 SISO



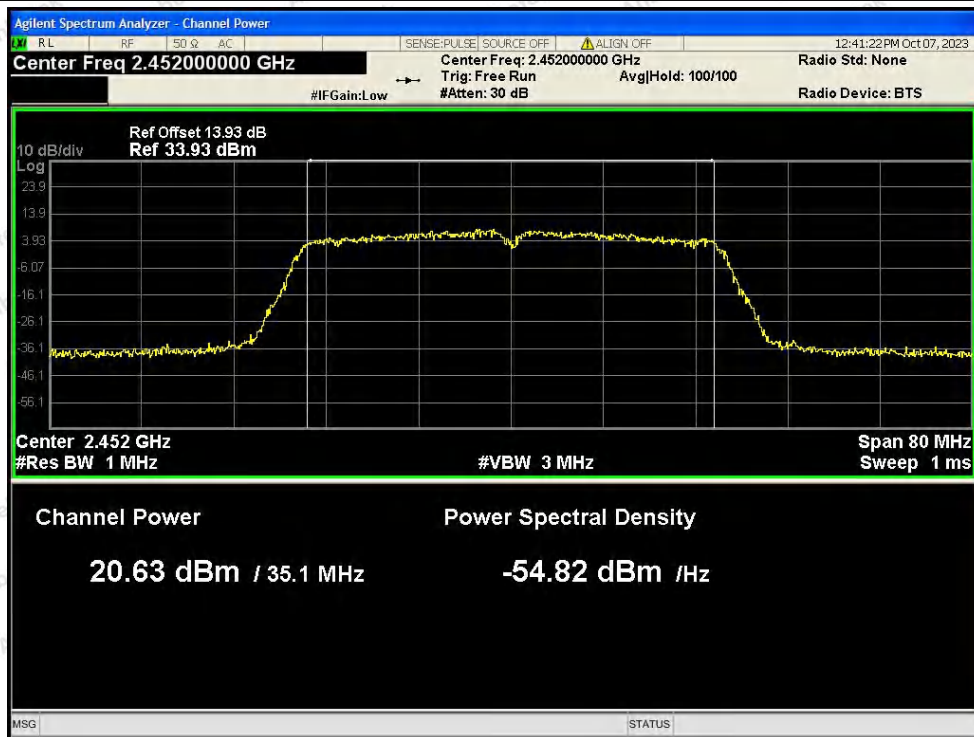
Peak Power NVNT n40 2452MHz Ant2 SISO



Peak Power NVNT n40 2452MHz Ant1 MIMO



Peak Power NVNT n40 2452MHz Ant2 MIMO



A.3. Maximum Average Conducted Output Power

Condition	Mode	Frequency	Antenna	Conducted	Duty	Total	Total	Limit	Verdict
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		(MHz)		Power (dBm)	Factor (dB)	Conducted Power (dBm)	Conducted Power (W)	Conducted (dBm)	
NVNT	b SISO	2412	Ant1	15.52	0.02	15.54	0.03581	30	Pass
NVNT	b SISO	2412	Ant2	16.24	0.02	16.26	0.04227	30	Pass
NVNT	b SISO	2437	Ant1	15.97	0.02	15.99	0.03972	30	Pass
NVNT	b SISO	2437	Ant2	16.43	0.02	16.45	0.04416	30	Pass
NVNT	b SISO	2462	Ant1	15.89	0.02	15.91	0.03899	30	Pass
NVNT	b SISO	2462	Ant2	16.57	0.02	16.59	0.0456	30	Pass
NVNT	g SISO	2412	Ant1	14.84	0.17	15.01	0.0317	30	Pass
NVNT	g SISO	2412	Ant2	15.76	0.17	15.93	0.03917	30	Pass
NVNT	g SISO	2437	Ant1	14.88	0.17	15.05	0.03199	30	Pass
NVNT	g SISO	2437	Ant2	15.66	0.17	15.83	0.03828	30	Pass
NVNT	g SISO	2462	Ant1	15.16	0.16	15.32	0.03404	30	Pass
NVNT	g SISO	2462	Ant2	16.17	0.16	16.33	0.04295	30	Pass
NVNT	n20 SISO	2412	Ant1	13.78	0.18	13.96	0.02489	30	Pass
NVNT	n20 SISO	2412	Ant2	14.48	0.17	14.65	0.02917	30	Pass
NVNT	n20 MIMO	2412	Ant1	13.76	0.18	13.94	0.02477	30	Pass
NVNT	n20 MIMO	2412	Ant2	14.82	0.18	15	0.03162	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	17.51	0.0564	30	Pass
NVNT	n20 SISO	2437	Ant1	13.65	0.17	13.82	0.0241	30	Pass
NVNT	n20 SISO	2437	Ant2	14.46	0.17	14.63	0.02904	30	Pass
NVNT	n20	2437	Ant1	13.81	0.18	13.99	0.02506	30	Pass

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	MIMO								
NVNT	n20 MIMO	2437	Ant2	14.66	0.18	14.84	0.03048	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	17.45	0.05554	30	Pass
NVNT	n20 SISO	2462	Ant1	13.93	0.17	14.1	0.0257	30	Pass
NVNT	n20 SISO	2462	Ant2	14.92	0.18	15.1	0.03236	30	Pass
NVNT	n20 MIMO	2462	Ant1	14.03	0.17	14.2	0.0263	30	Pass
NVNT	n20 MIMO	2462	Ant2	15.19	0.17	15.36	0.03436	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	17.83	0.06066	30	Pass
NVNT	n40 SISO	2422	Ant1	11.53	0.34	11.87	0.01538	30	Pass
NVNT	n40 SISO	2422	Ant2	12.45	0.35	12.8	0.01905	30	Pass
NVNT	n40 MIMO	2422	Ant1	11.56	0.35	11.91	0.01552	30	Pass
NVNT	n40 MIMO	2422	Ant2	12.65	0.35	13	0.01995	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	15.5	0.03548	30	Pass
NVNT	n40 SISO	2437	Ant1	11.76	0.34	12.1	0.01622	30	Pass
NVNT	n40 SISO	2437	Ant2	12.47	0.34	12.81	0.0191	30	Pass
NVNT	n40 MIMO	2437	Ant1	11.76	0.34	12.1	0.01622	30	Pass
NVNT	n40 MIMO	2437	Ant2	12.62	0.34	12.96	0.01977	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	15.56	0.03599	30	Pass
NVNT	n40 SISO	2452	Ant1	11.92	0.34	12.26	0.01683	30	Pass
NVNT	n40 SISO	2452	Ant2	12.9	0.35	13.25	0.02113	30	Pass
NVNT	n40 MIMO	2452	Ant1	11.88	0.34	12.22	0.01667	30	Pass
NVNT	n40	2452	Ant2	12.93	0.34	13.27	0.02123	30	Pass

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	MIMO								
NVNT	n40 MIMO	2452	Sum	NaN	NaN	15.79	0.0379	30	Pass

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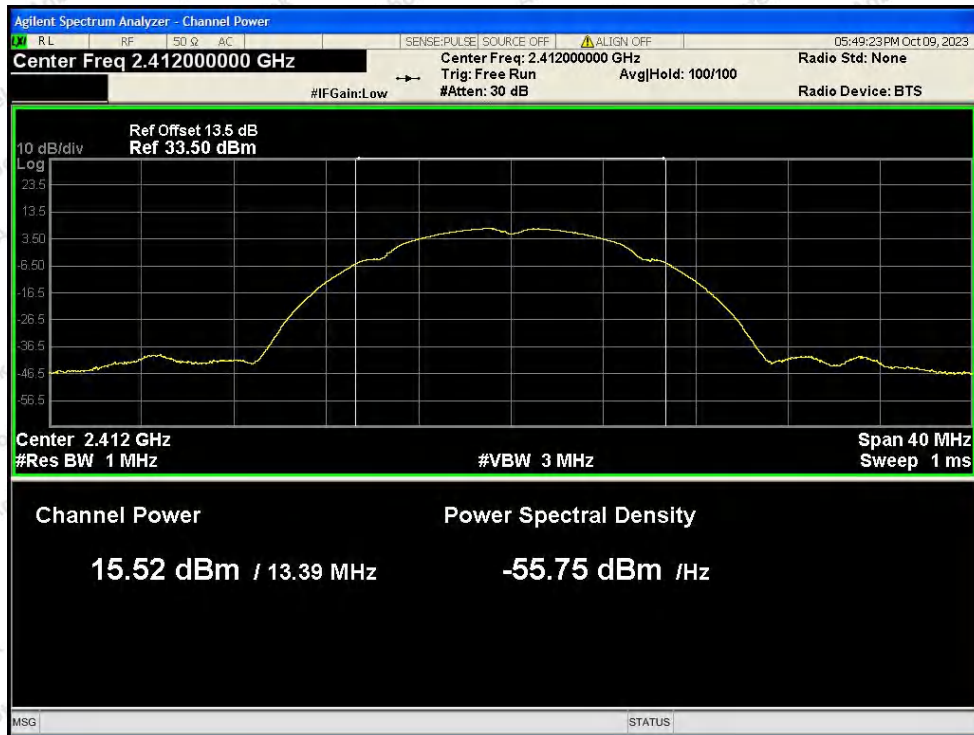


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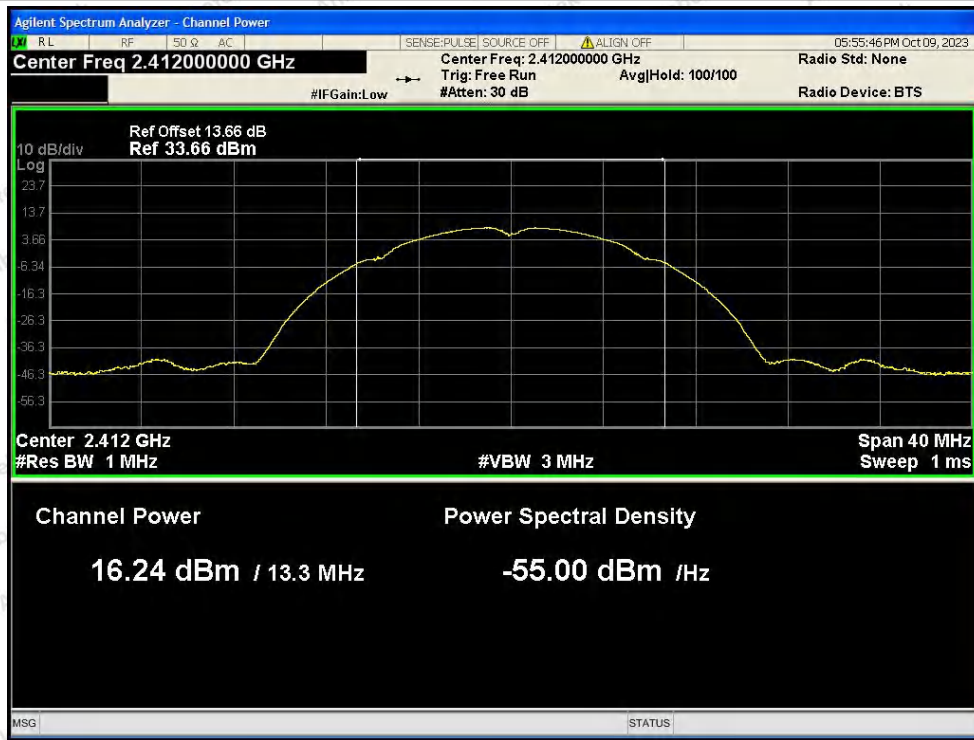


Test Graphs

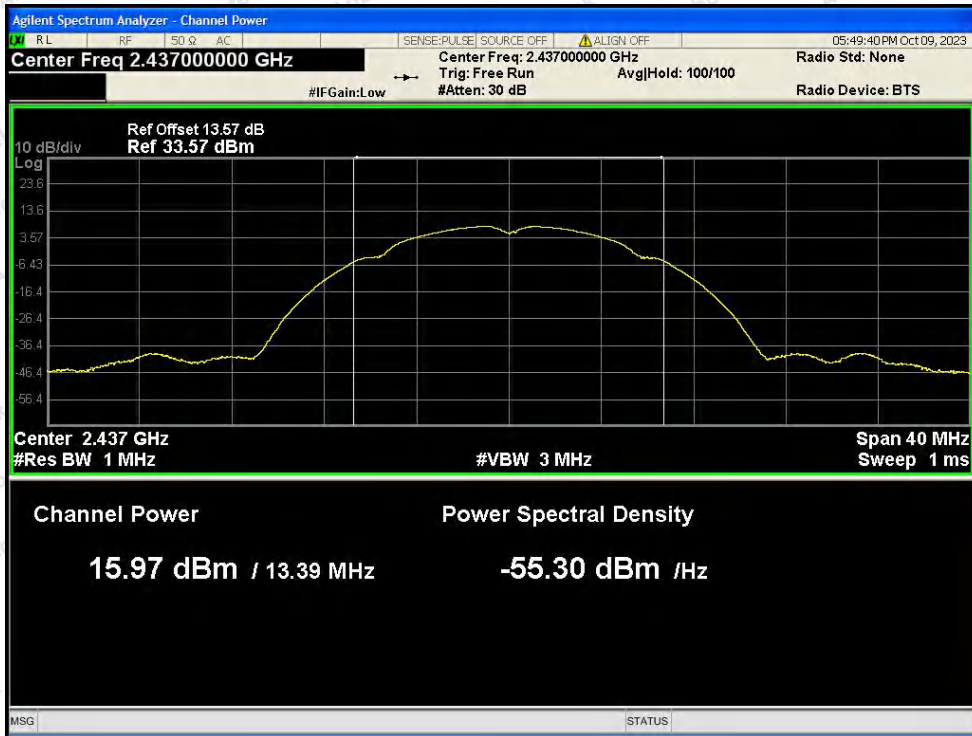
Average Power NVNT b 2412MHz Ant1 SISO



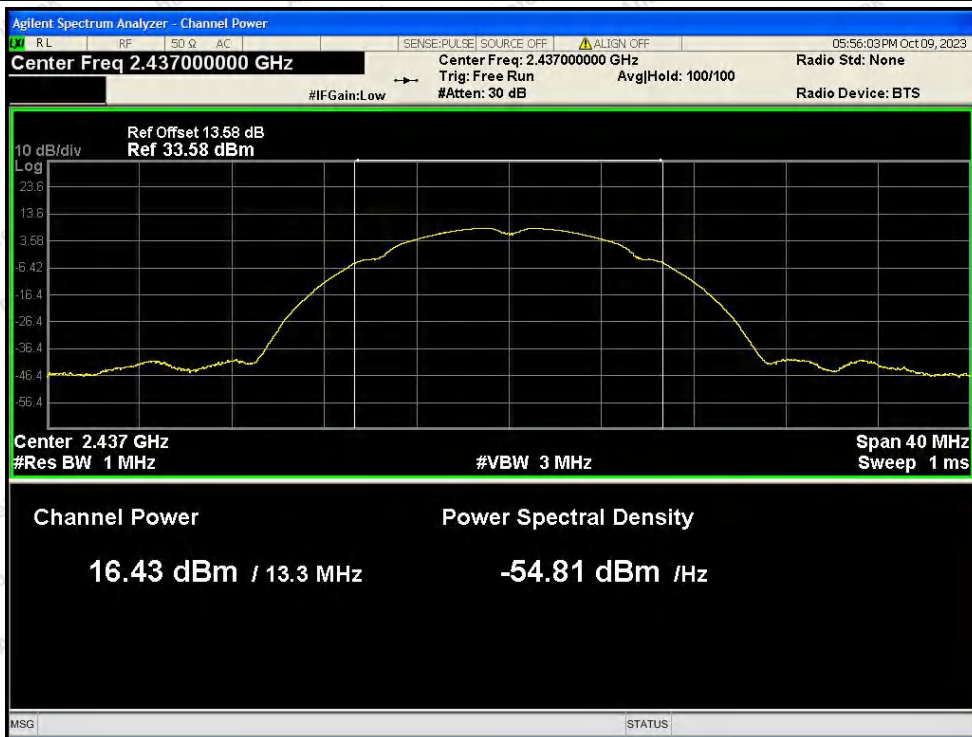
Average Power NVNT b 2412MHz Ant2 SISO



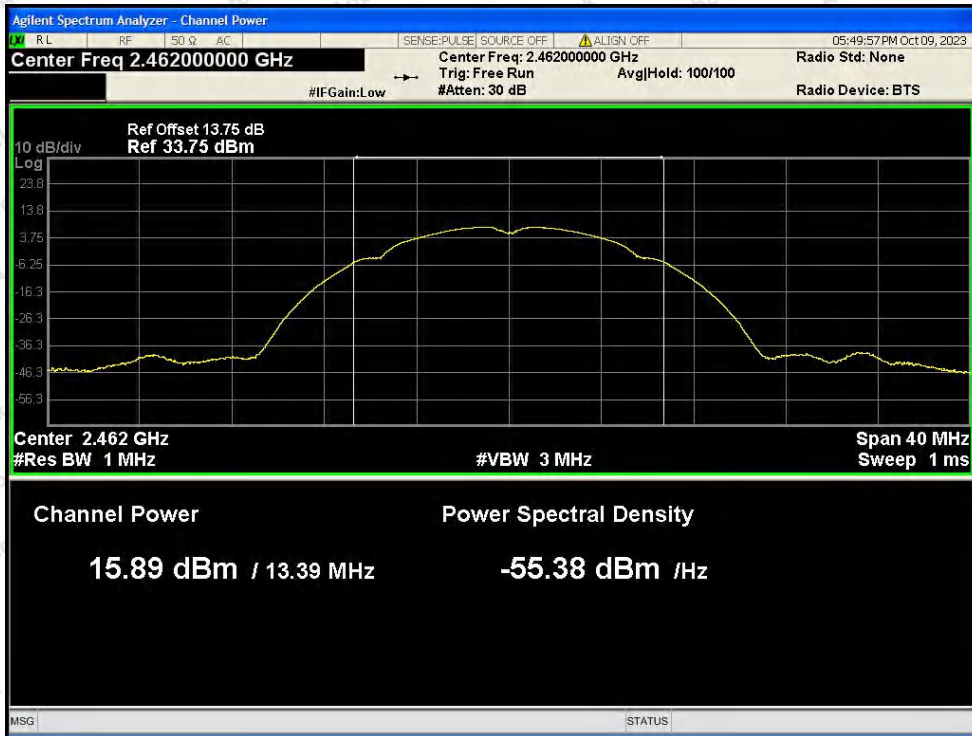
Average Power NVNT b 2437MHz Ant1 SISO



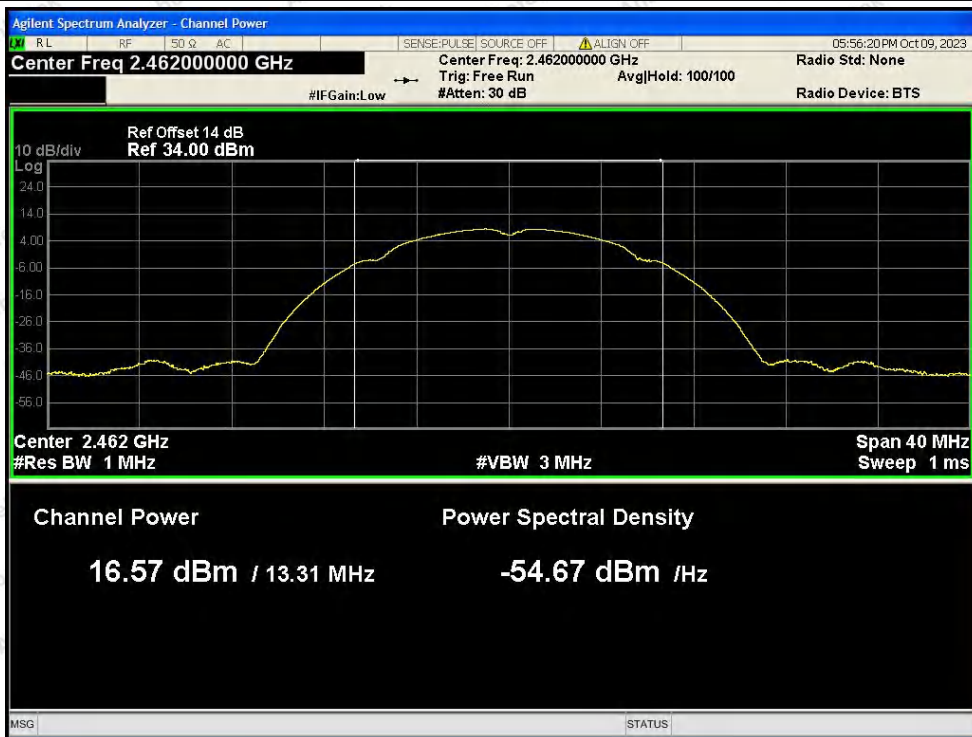
Average Power NVNT b 2437MHz Ant2 SISO



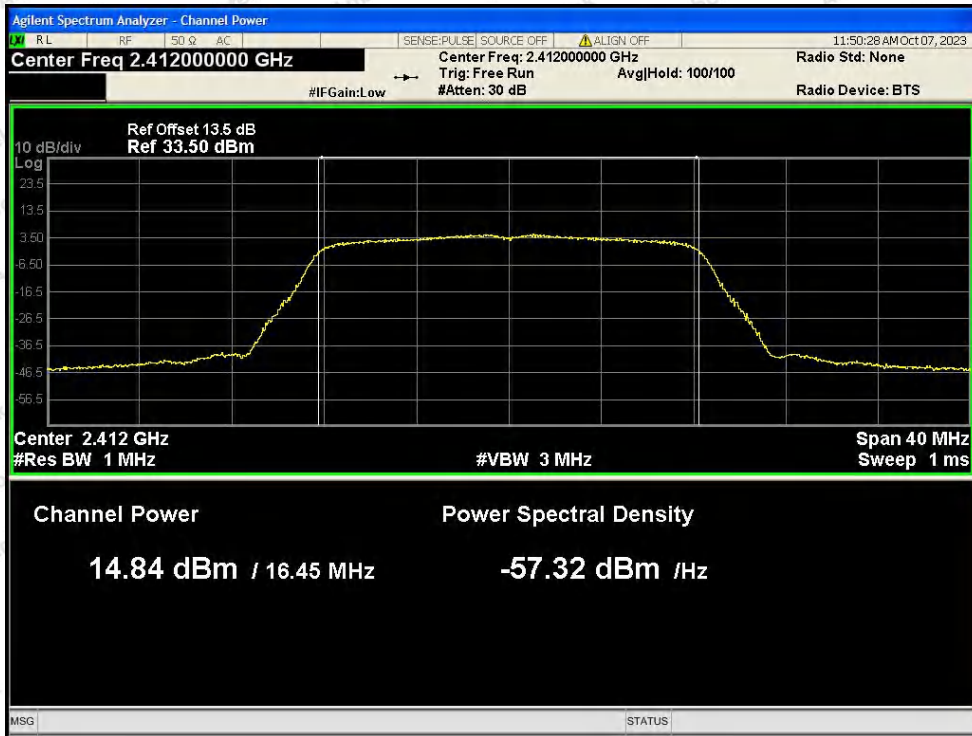
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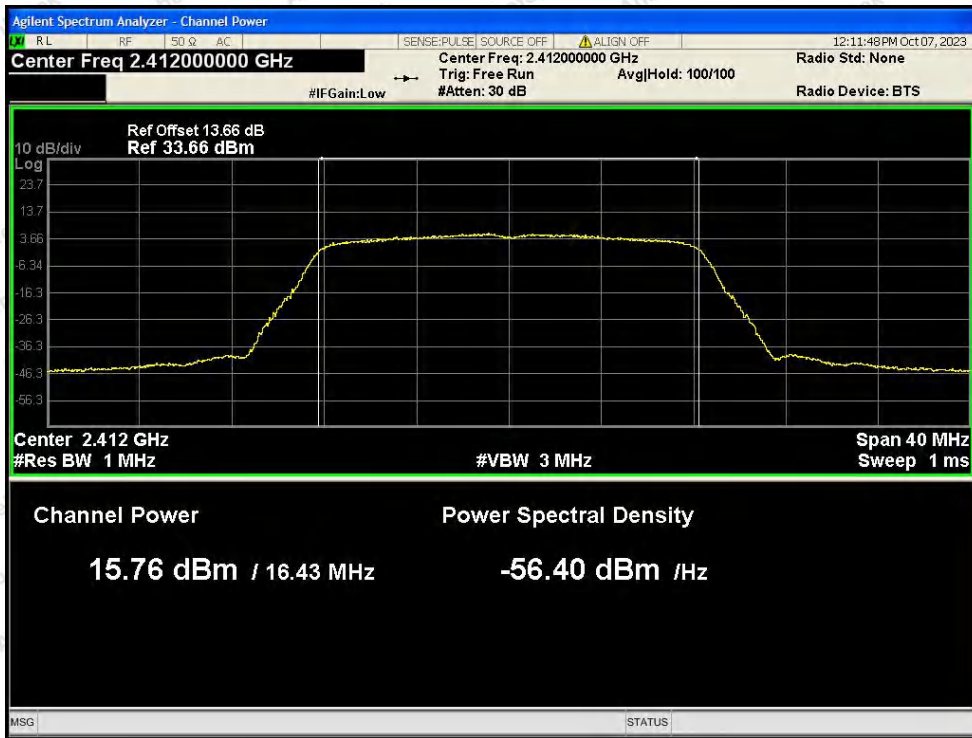
Average Power NVNT b 2462MHz Ant2 SISO



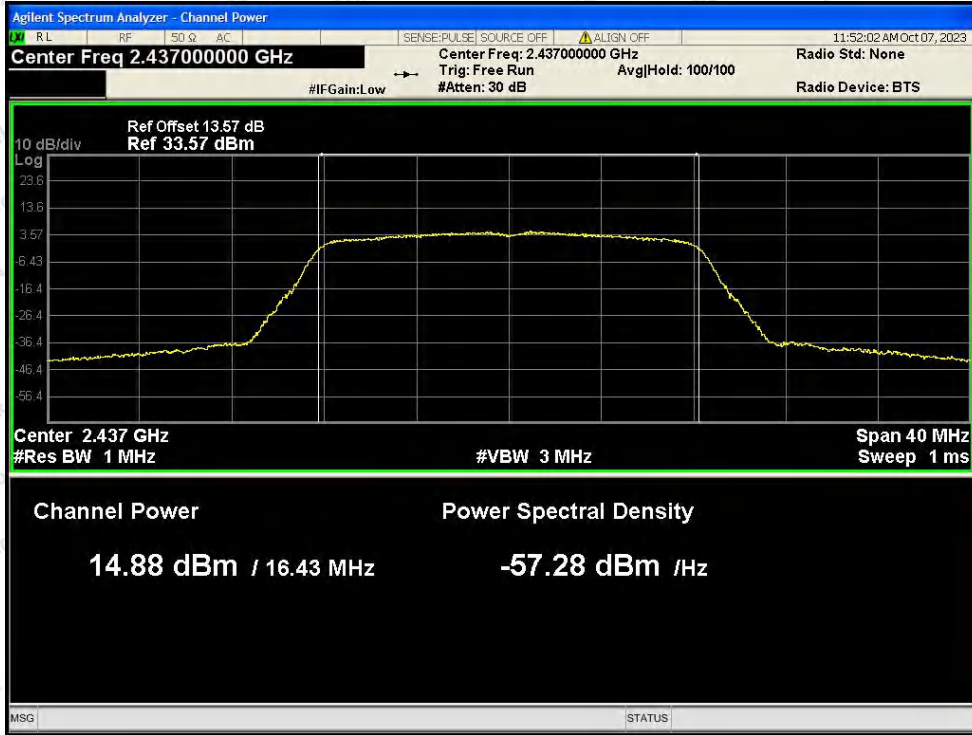
Average Power NVNT g 2412MHz Ant1 SISO



Average Power NVNT g 2412MHz Ant2 SISO



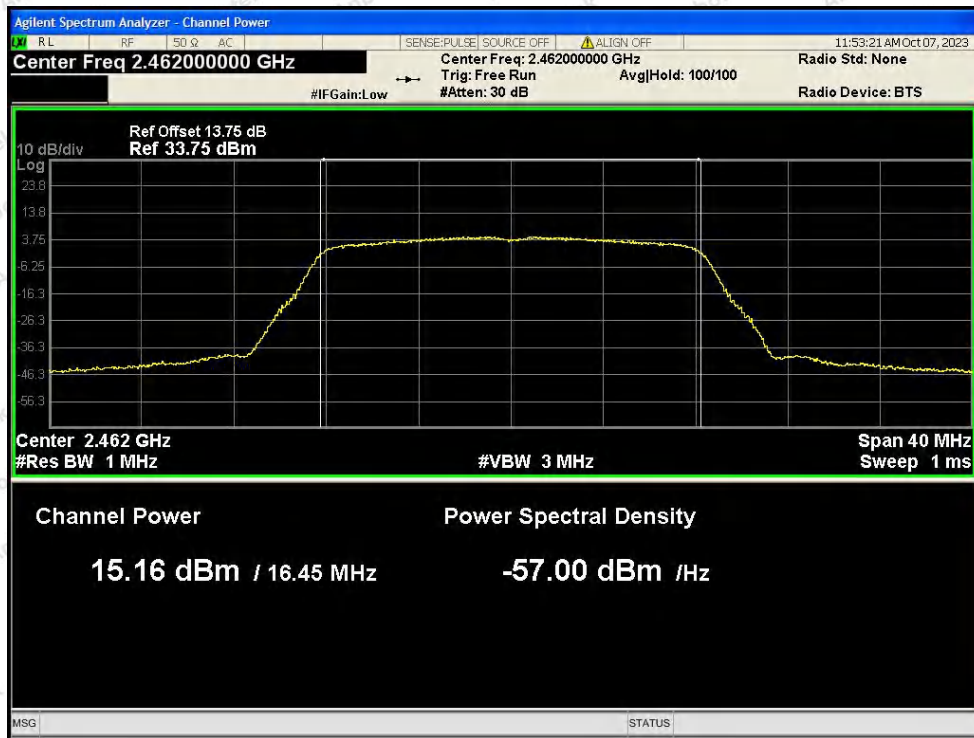
Average Power NVNT g 2437MHz Ant1 SISO



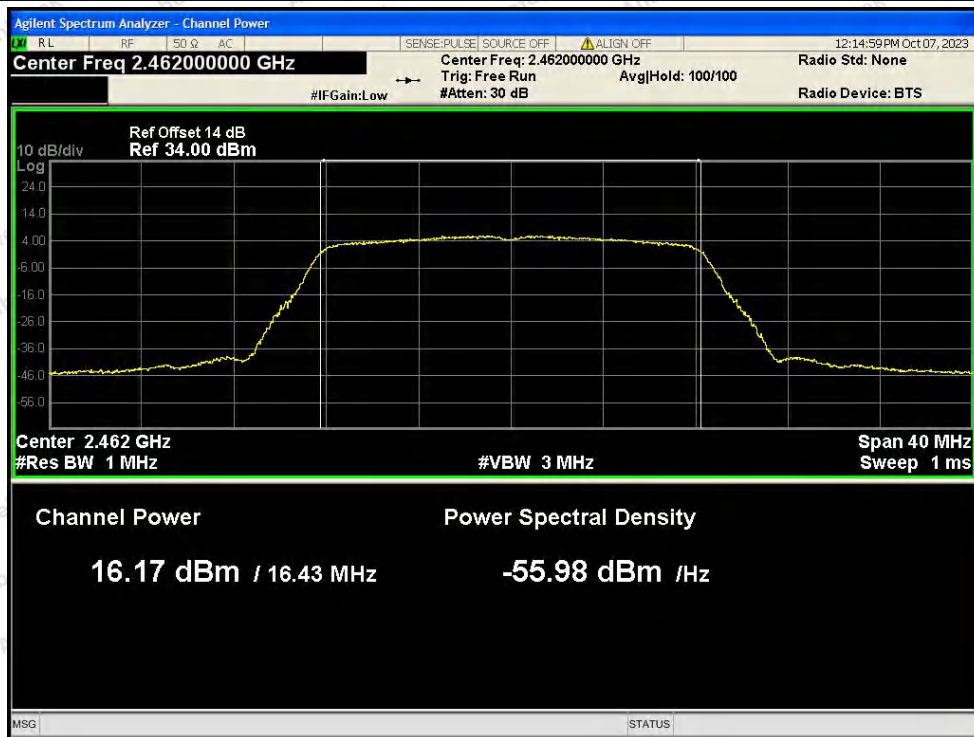
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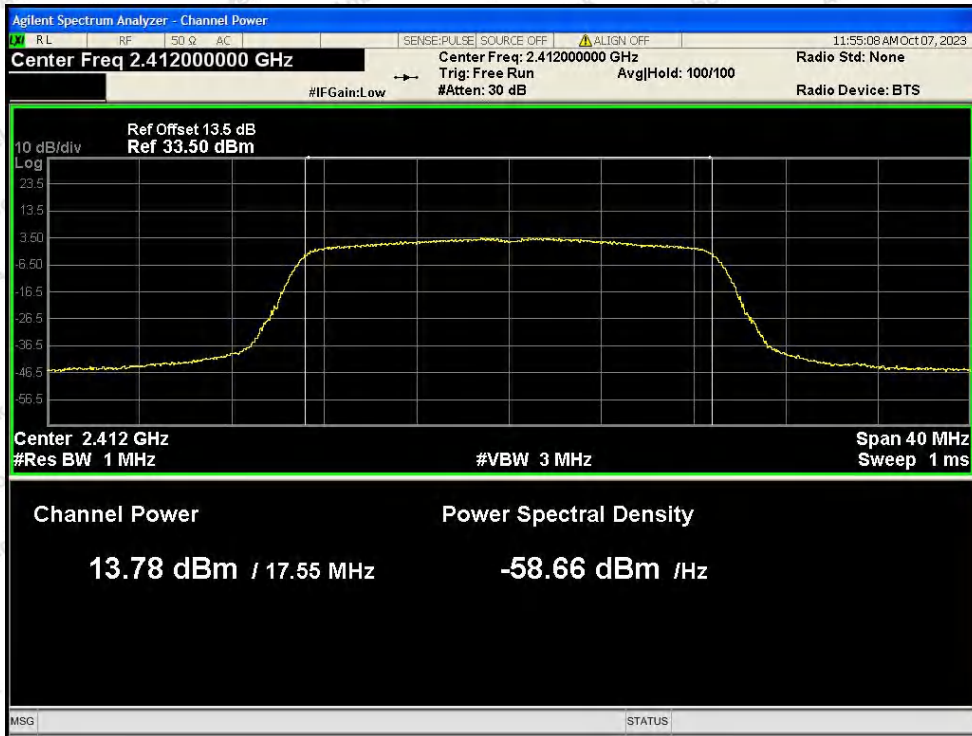
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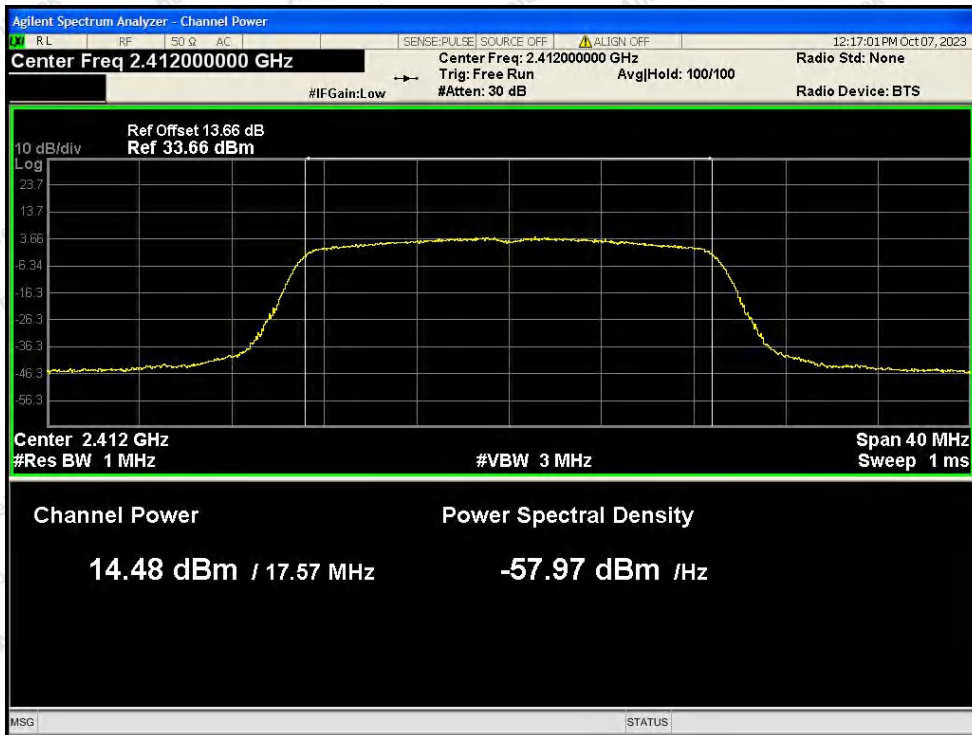
Average Power NVNT g 2462MHz Ant2 SISO



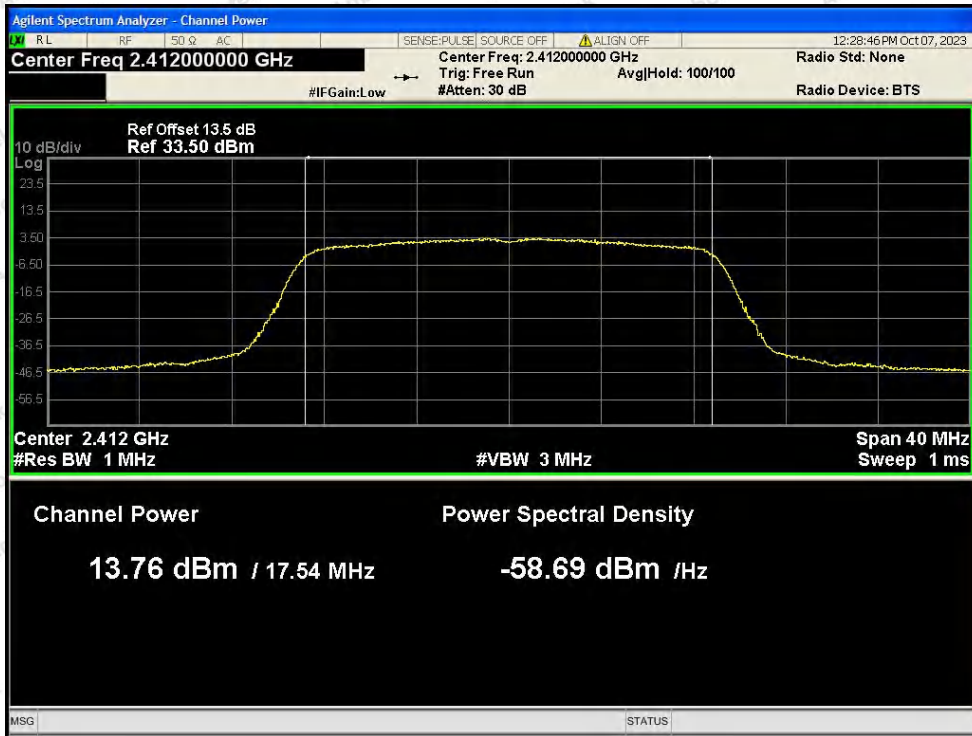
Average Power NVNT n20 2412MHz Ant1 SISO



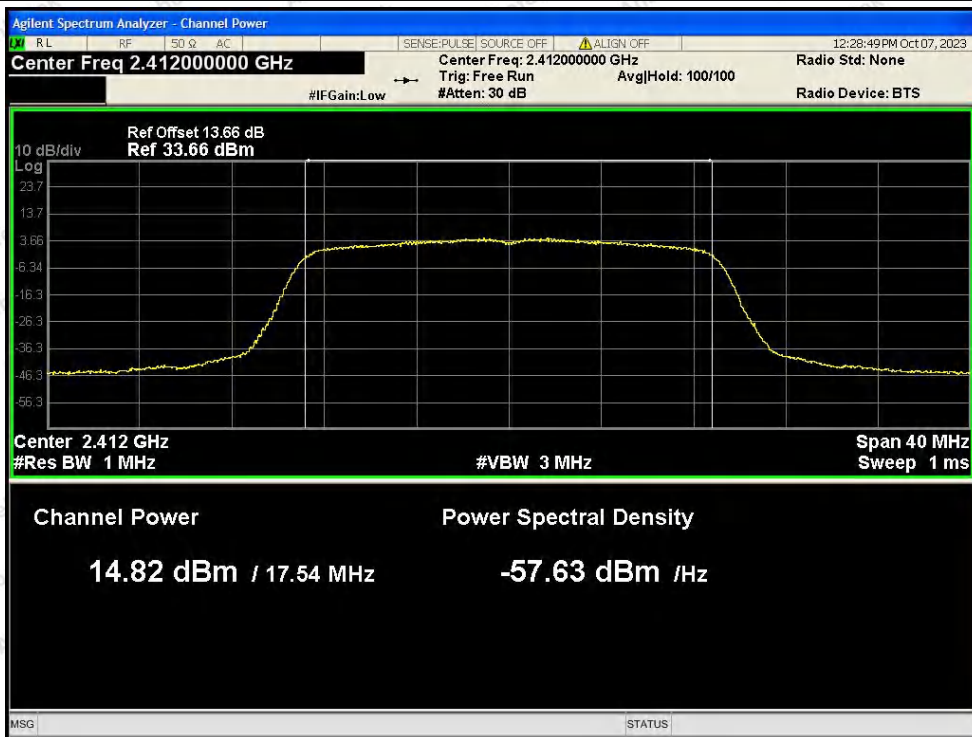
Average Power NVNT n20 2412MHz Ant2 SISO



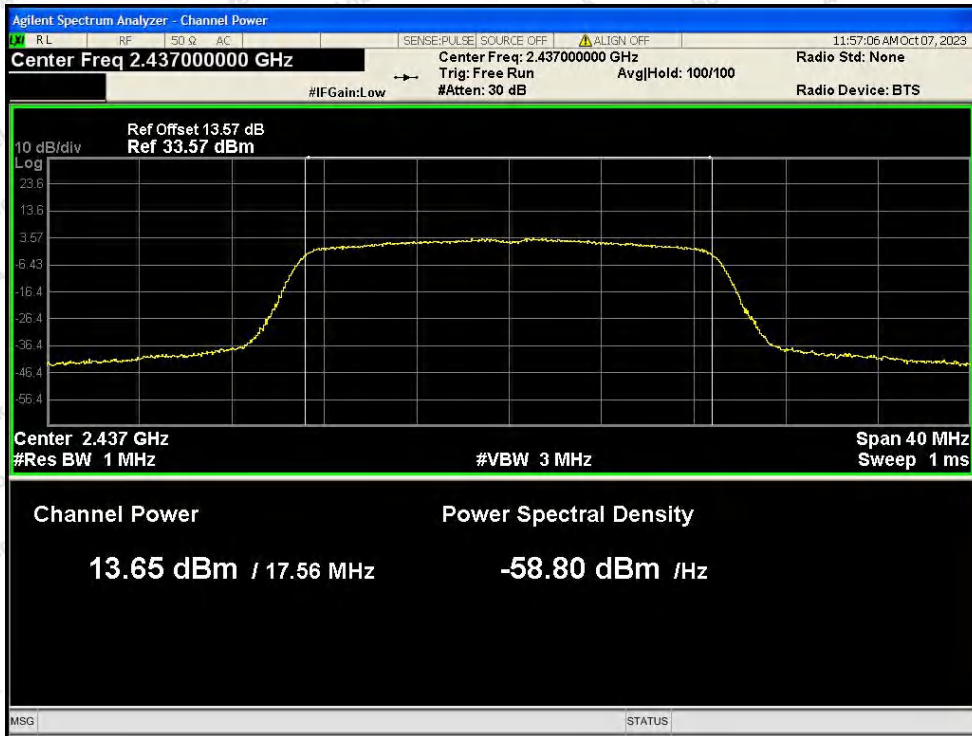
Average Power NVNT n20 2412MHz Ant1 MIMO



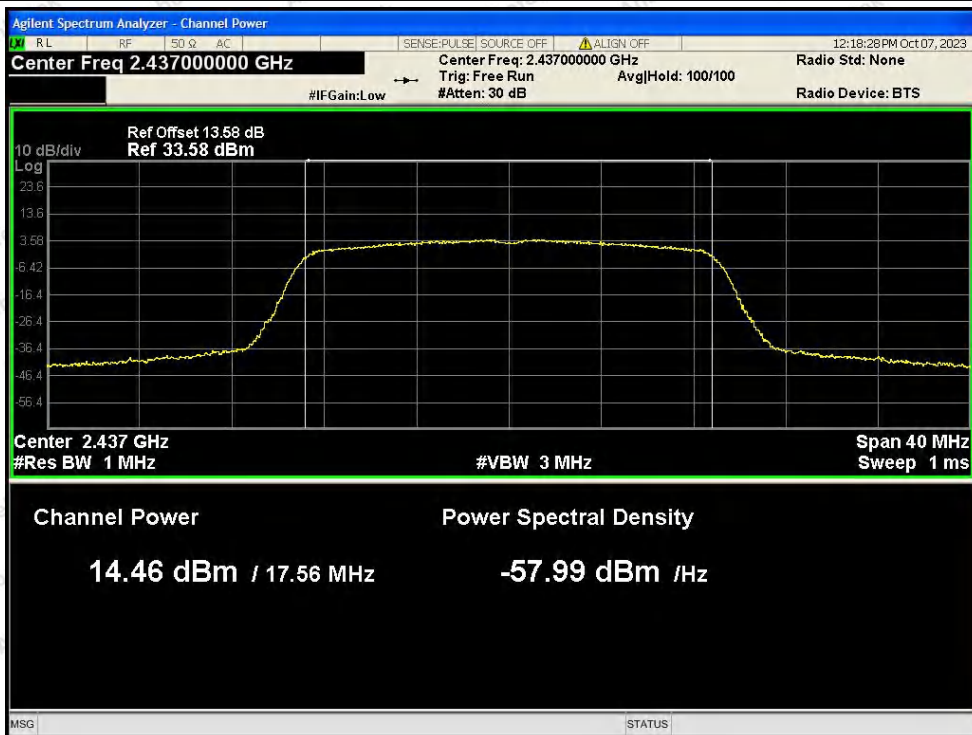
Average Power NVNT n20 2412MHz Ant2 MIMO



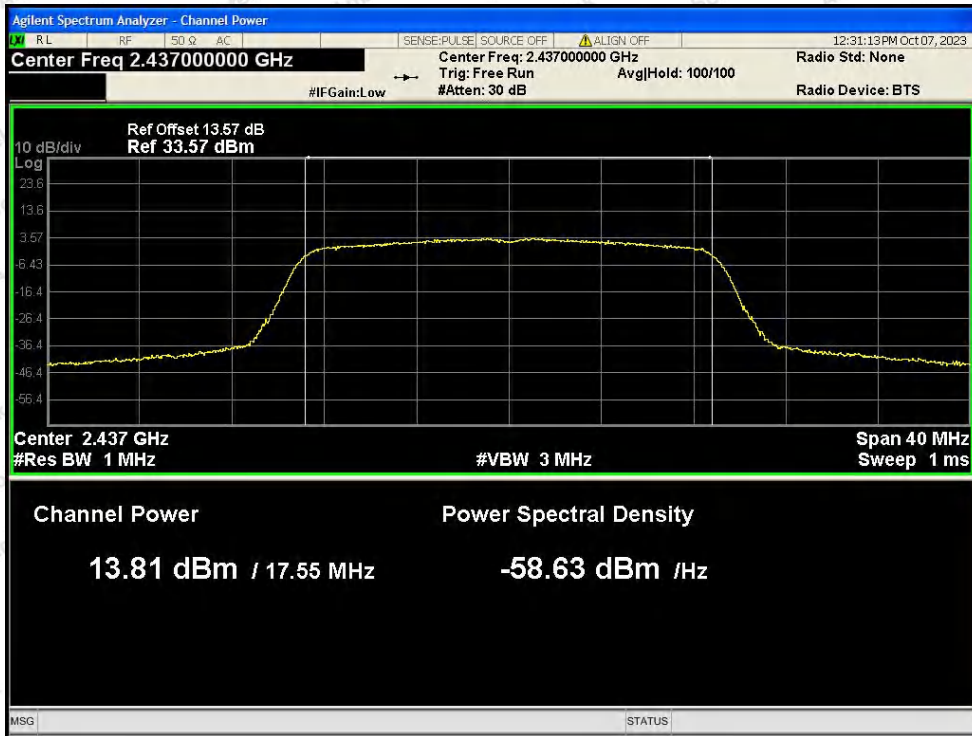
Average Power NVNT n20 2437MHz Ant1 SISO



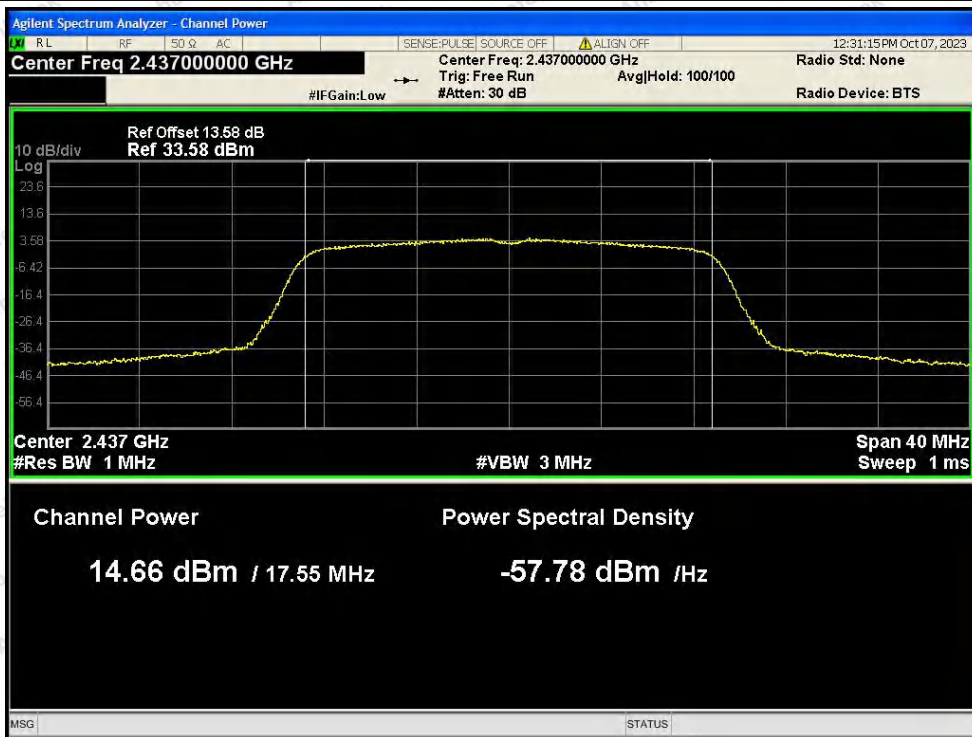
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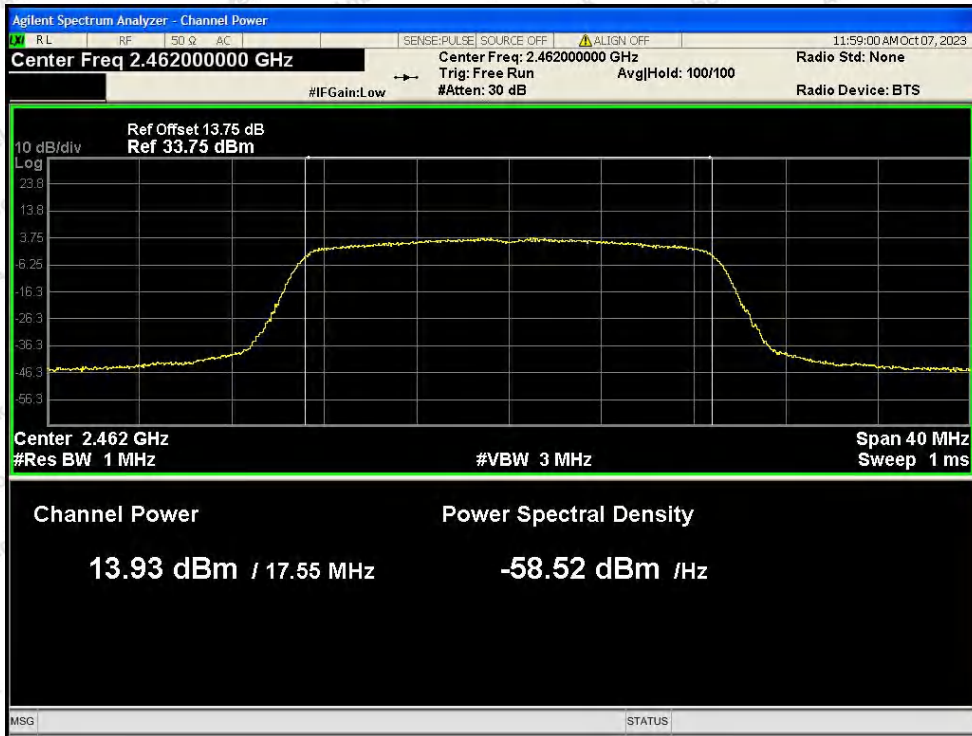
Average Power NVNT n20 2437MHz Ant1 MIMO



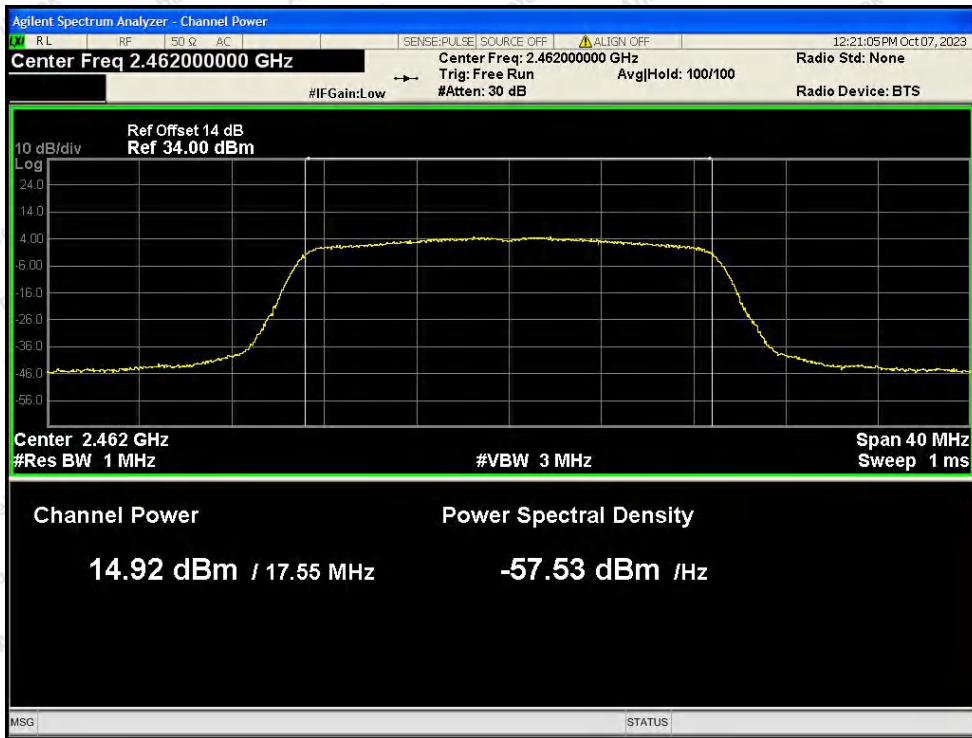
Average Power NVNT n20 2437MHz Ant2 MIMO



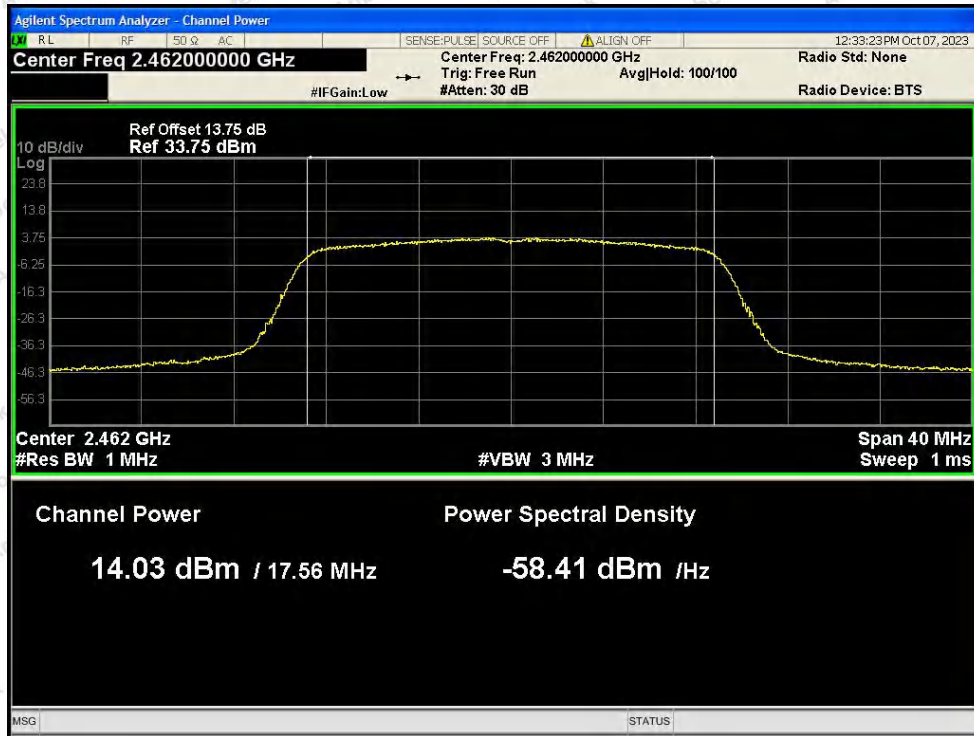
Average Power NVNT n20 2462MHz Ant1 SISO



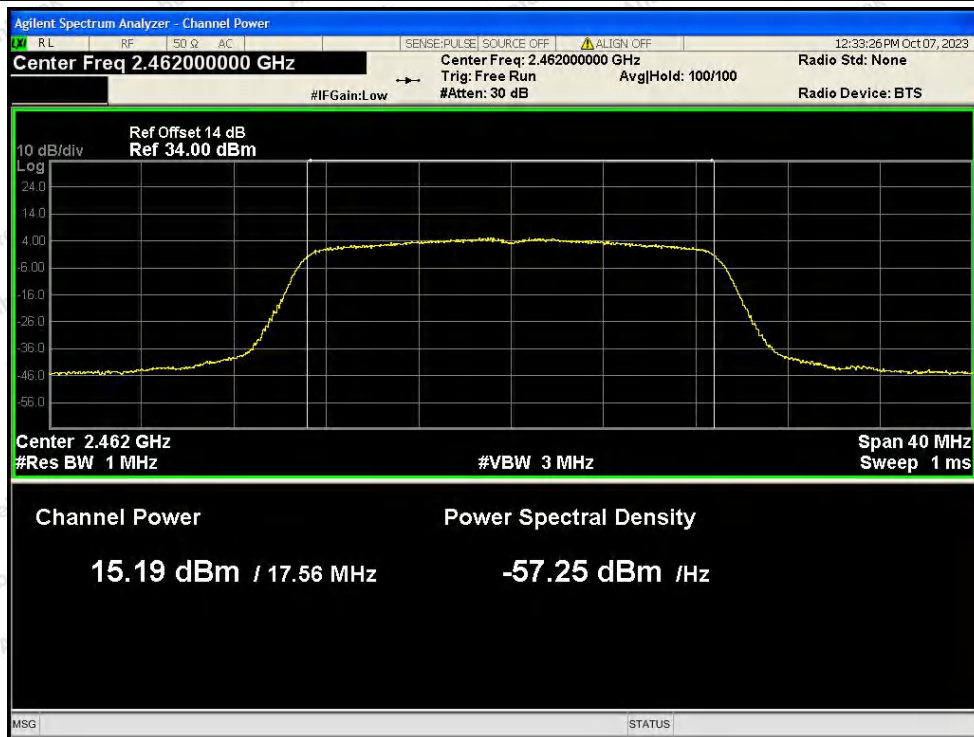
Average Power NVNT n20 2462MHz Ant2 SISO



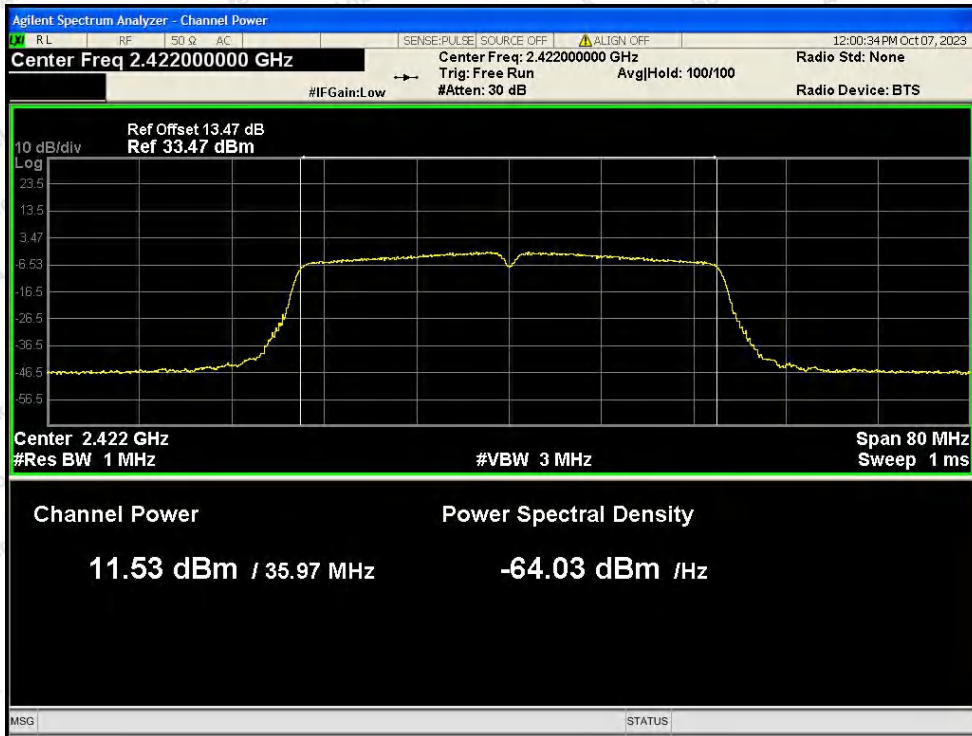
Average Power NVNT n20 2462MHz Ant1 MIMO



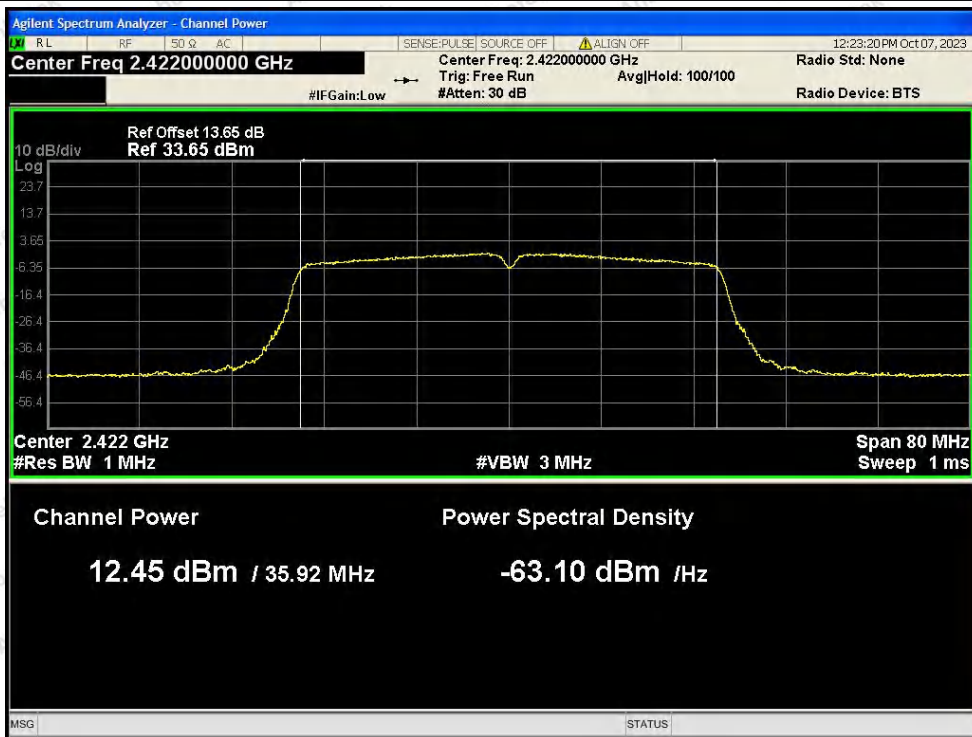
Average Power NVNT n20 2462MHz Ant2 MIMO



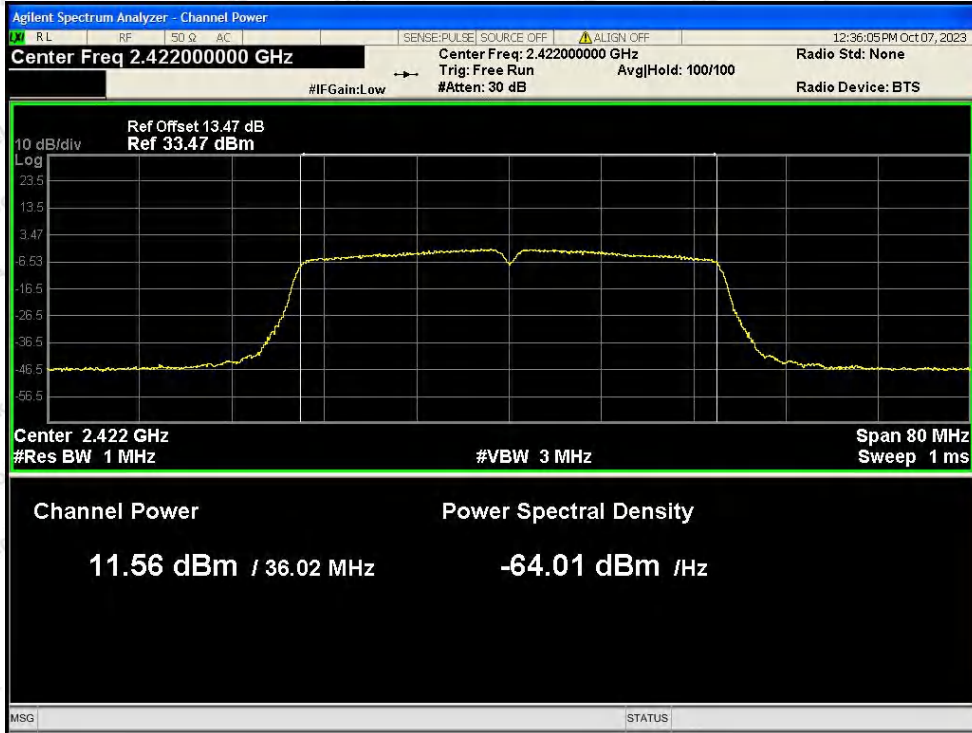
Average Power NVNT n40 2422MHz Ant1 SISO



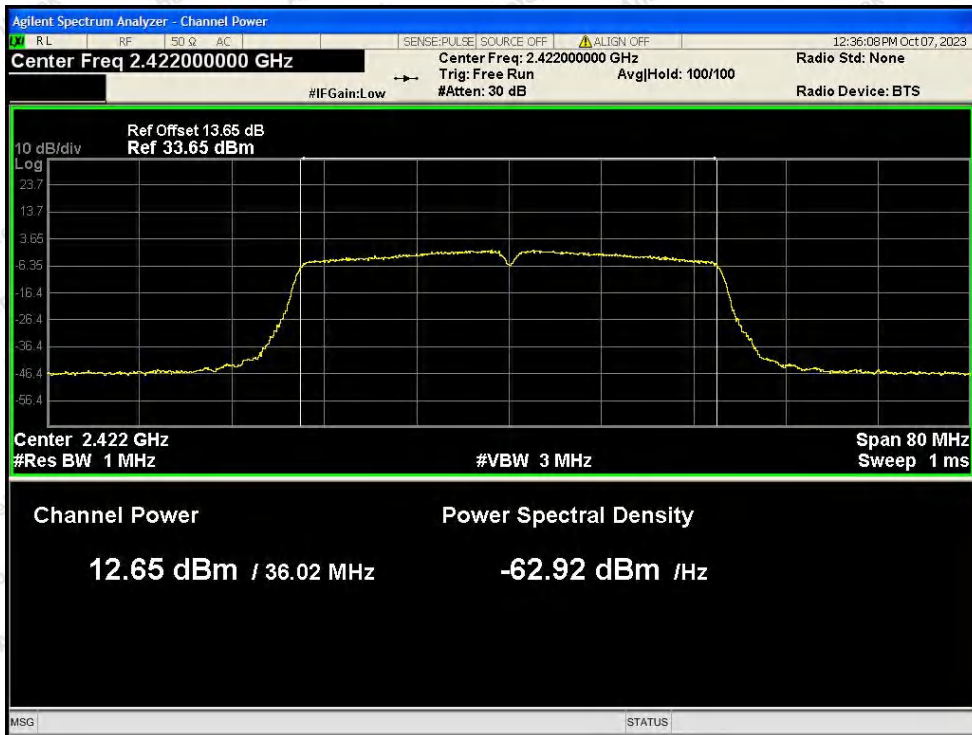
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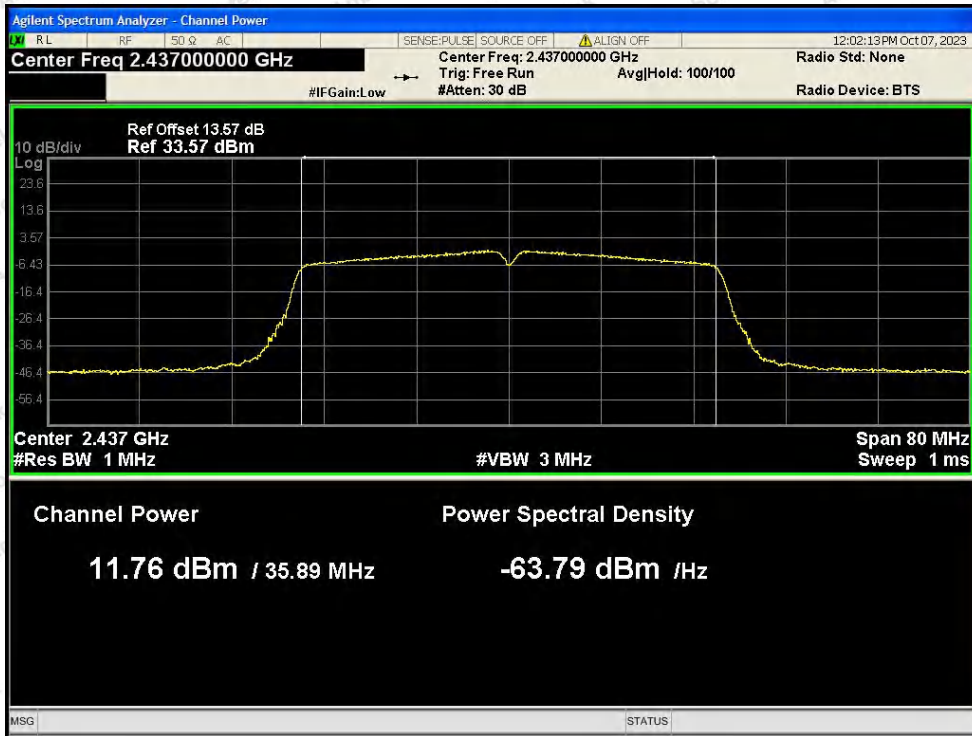
Average Power NVNT n40 2422MHz Ant1 MIMO



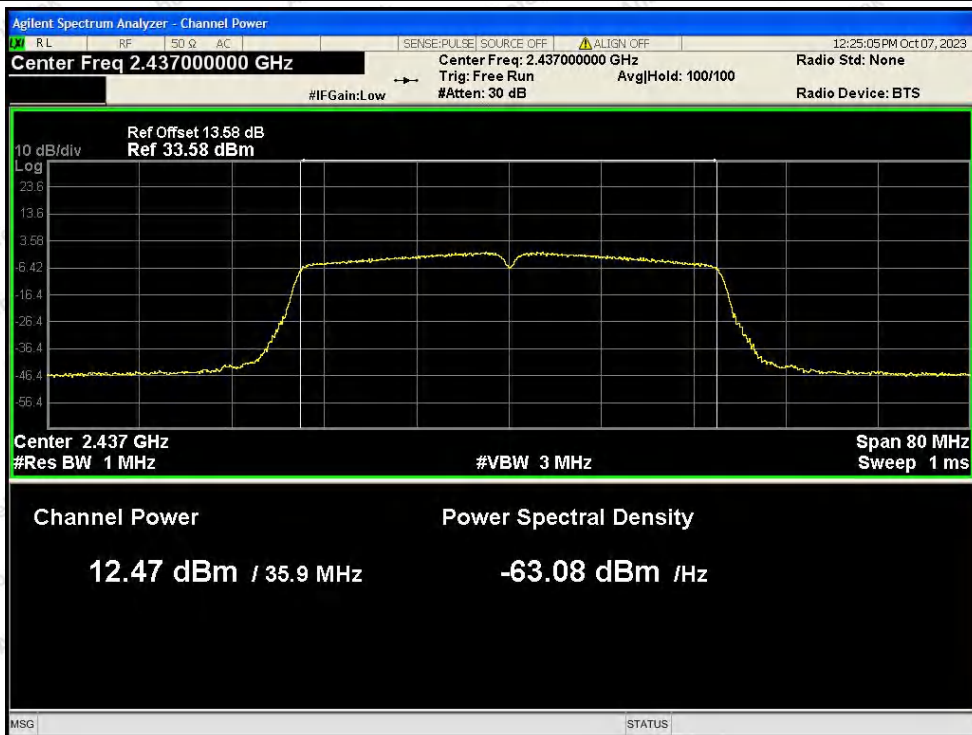
Average Power NVNT n40 2422MHz Ant2 MIMO



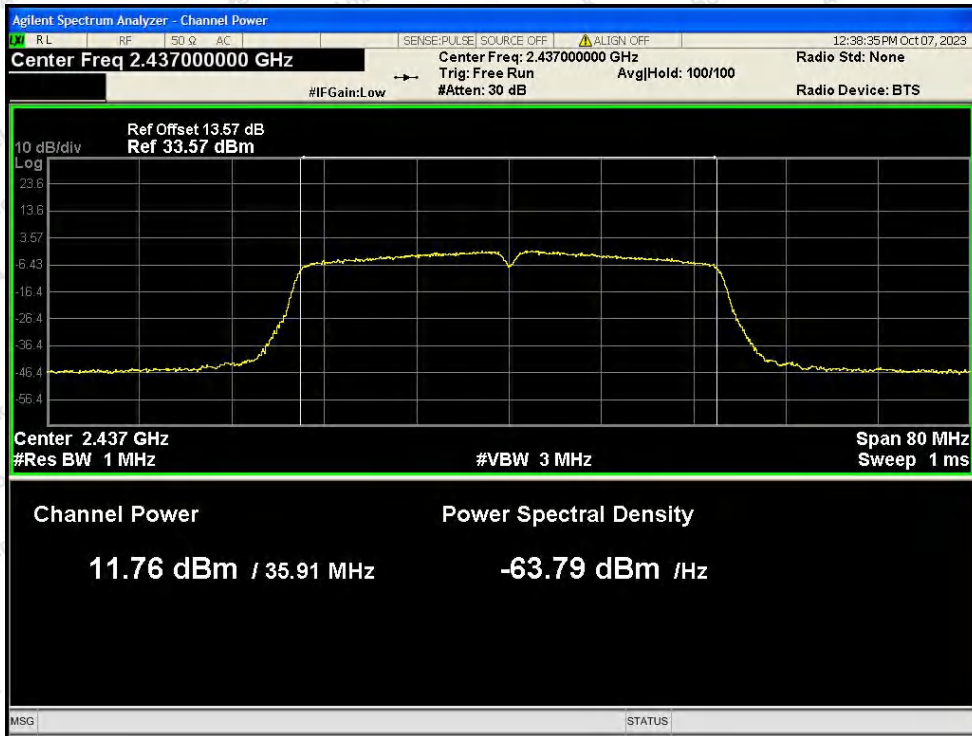
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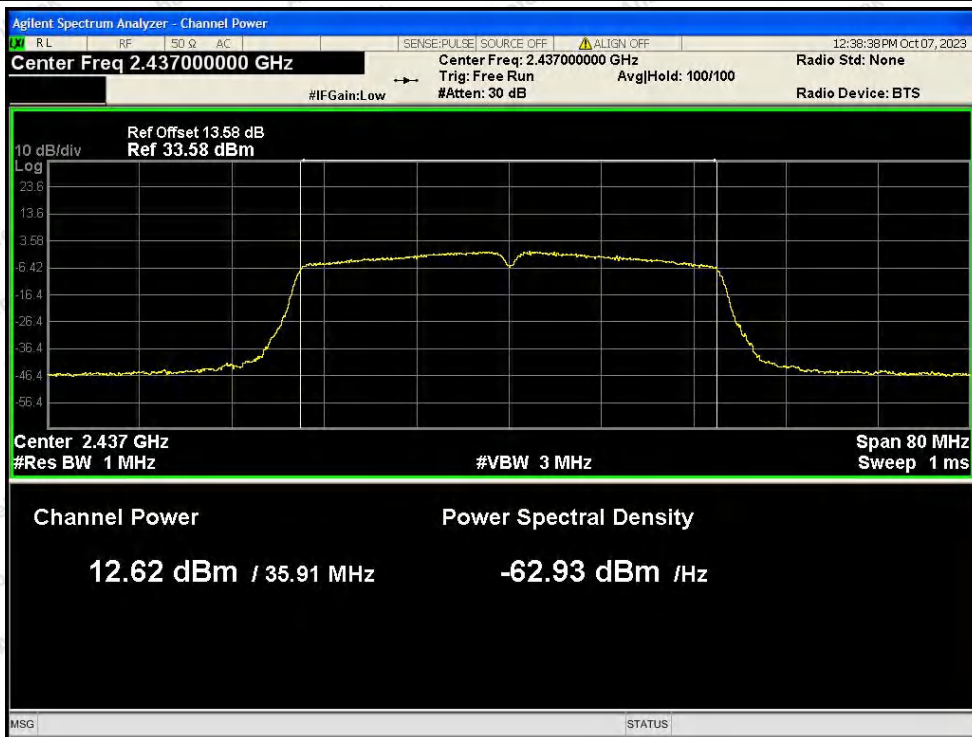
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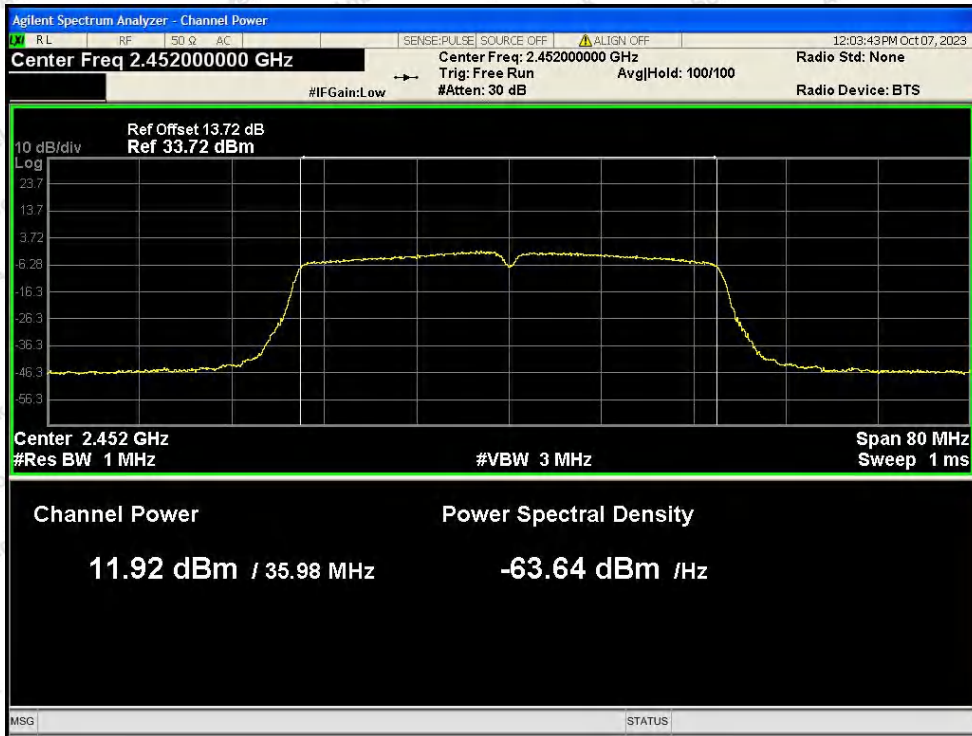
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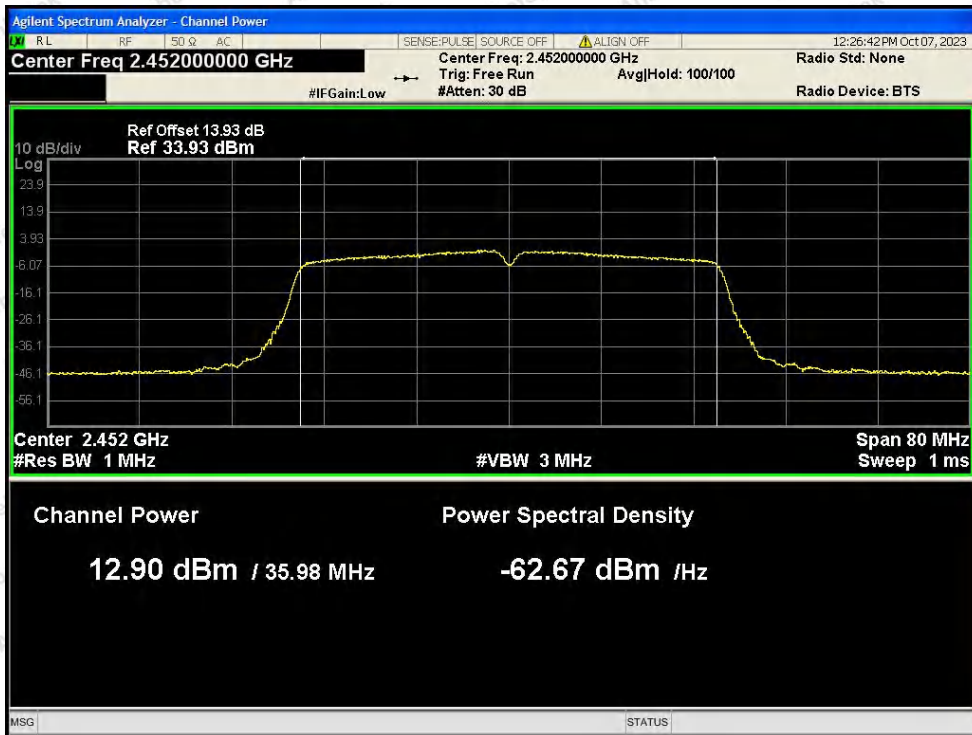
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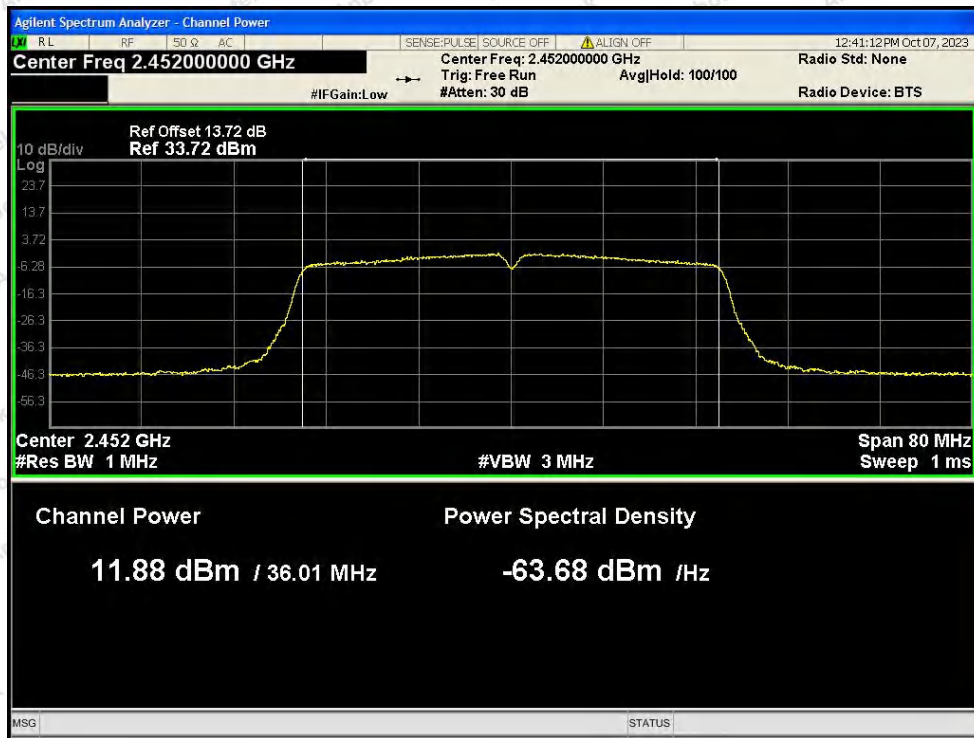
Average Power NVNT n40 2452MHz Ant1 SISO



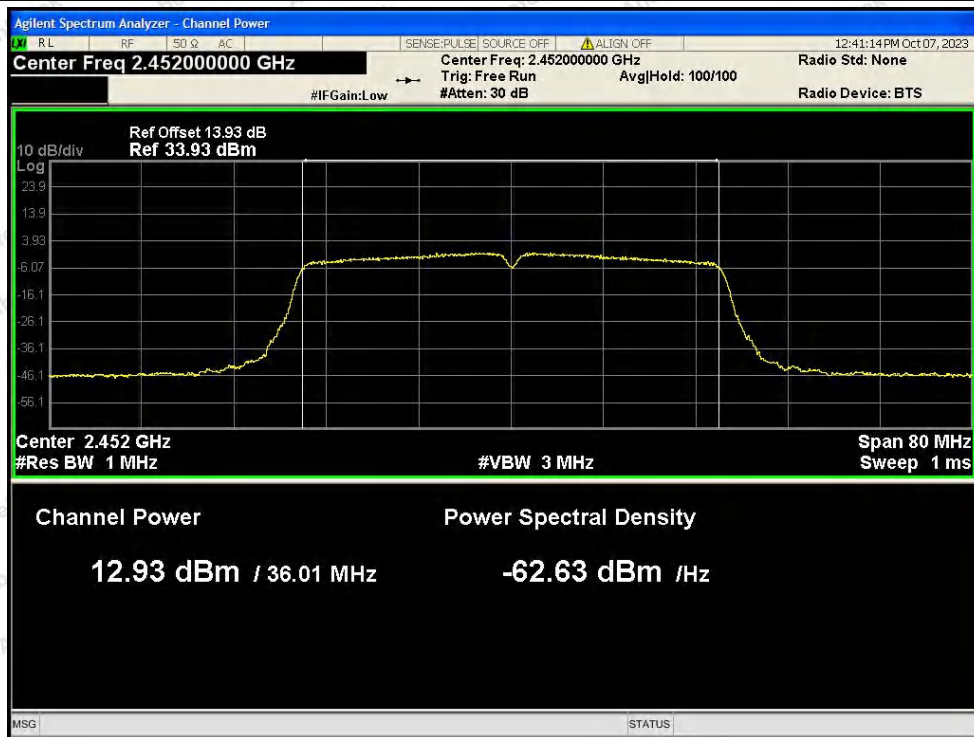
Average Power NVNT n40 2452MHz Ant2 SISO



Average Power NVNT n40 2452MHz Ant1 MIMO



Average Power NVNT n40 2452MHz Ant2 MIMO



A.4. 6 dB Bandwidth and 99% OBW

Condition	Mode	Frequency	Antenna	-6 dB Bandwidth	Limit	Verdict
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		(MHz)		(MHz)	(MHz)	
NVNT	b SISO	2412	Ant1	8.57	0.5	Pass
NVNT	b SISO	2412	Ant2	9.011	0.5	Pass
NVNT	b SISO	2437	Ant1	9.066	0.5	Pass
NVNT	b SISO	2437	Ant2	8.583	0.5	Pass
NVNT	b SISO	2462	Ant1	9.07	0.5	Pass
NVNT	b SISO	2462	Ant2	9.063	0.5	Pass
NVNT	g SISO	2412	Ant1	15.016	0.5	Pass
NVNT	g SISO	2412	Ant2	14.435	0.5	Pass
NVNT	g SISO	2437	Ant1	15.108	0.5	Pass
NVNT	g SISO	2437	Ant2	15.086	0.5	Pass
NVNT	g SISO	2462	Ant1	14.466	0.5	Pass
NVNT	g SISO	2462	Ant2	15.08	0.5	Pass
NVNT	n20 SISO	2412	Ant1	14.152	0.5	Pass
NVNT	n20 SISO	2412	Ant2	15.067	0.5	Pass
NVNT	n20 MIMO	2412	Ant1	15.041	0.5	Pass
NVNT	n20 MIMO	2412	Ant2	16.519	0.5	Pass
NVNT	n20 SISO	2437	Ant1	15.04	0.5	Pass
NVNT	n20 SISO	2437	Ant2	13.423	0.5	Pass
NVNT	n20 MIMO	2437	Ant1	15	0.5	Pass
NVNT	n20 MIMO	2437	Ant2	15.035	0.5	Pass
NVNT	n20 SISO	2462	Ant1	15.057	0.5	Pass
NVNT	n20 SISO	2462	Ant2	15.064	0.5	Pass
NVNT	n20 MIMO	2462	Ant1	14.122	0.5	Pass
NVNT	n20 MIMO	2462	Ant2	15.694	0.5	Pass
NVNT	n40 SISO	2422	Ant1	35.099	0.5	Pass
NVNT	n40 SISO	2422	Ant2	33.785	0.5	Pass
NVNT	n40	2422	Ant1	34.997	0.5	Pass

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	MIMO					
NVNT	n40 MIMO	2422	Ant2	35.028	0.5	Pass
NVNT	n40 SISO	2437	Ant1	33.782	0.5	Pass
NVNT	n40 SISO	2437	Ant2	35.058	0.5	Pass
NVNT	n40 MIMO	2437	Ant1	35.091	0.5	Pass
NVNT	n40 MIMO	2437	Ant2	35.026	0.5	Pass
NVNT	n40 SISO	2452	Ant1	33.82	0.5	Pass
NVNT	n40 SISO	2452	Ant2	35.098	0.5	Pass
NVNT	n40 MIMO	2452	Ant1	35.094	0.5	Pass
NVNT	n40 MIMO	2452	Ant2	35.096	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1 SISO



-6dB Bandwidth NVNT b 2412MHz Ant2 SISO

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