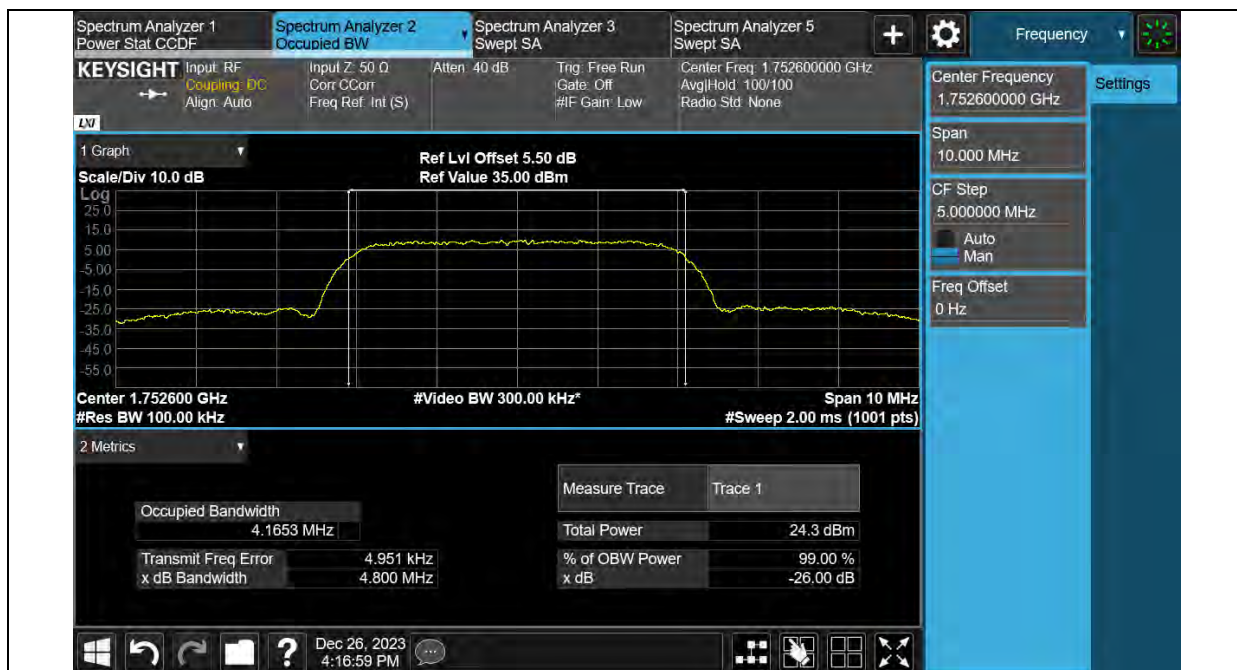


Test Graphs







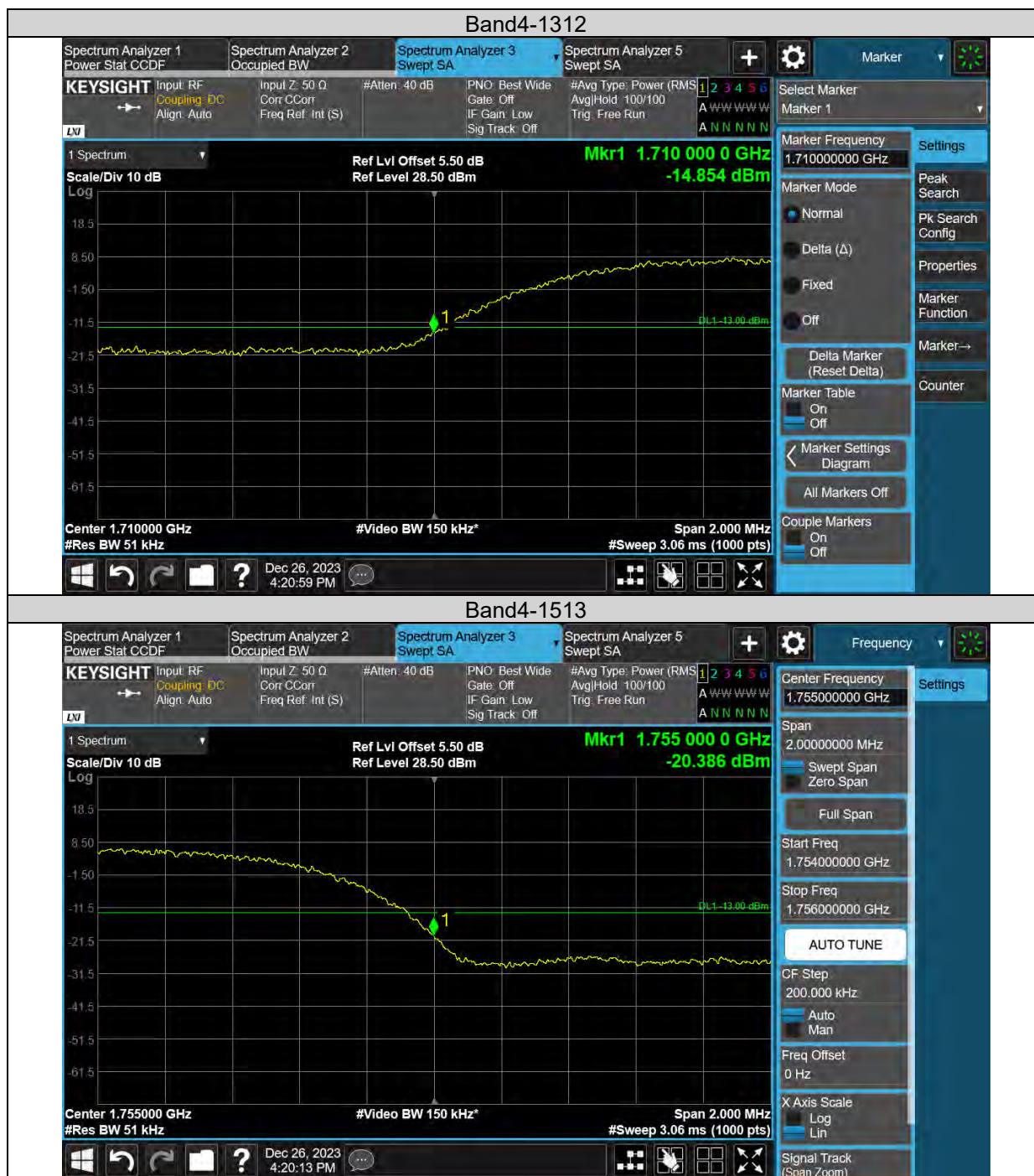
Test Report No.: PSU-QSU2312200110RF03

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	See graph	See graph	-13	PASS
Band4	1513	See graph	See graph	-13	PASS

Test Graphs

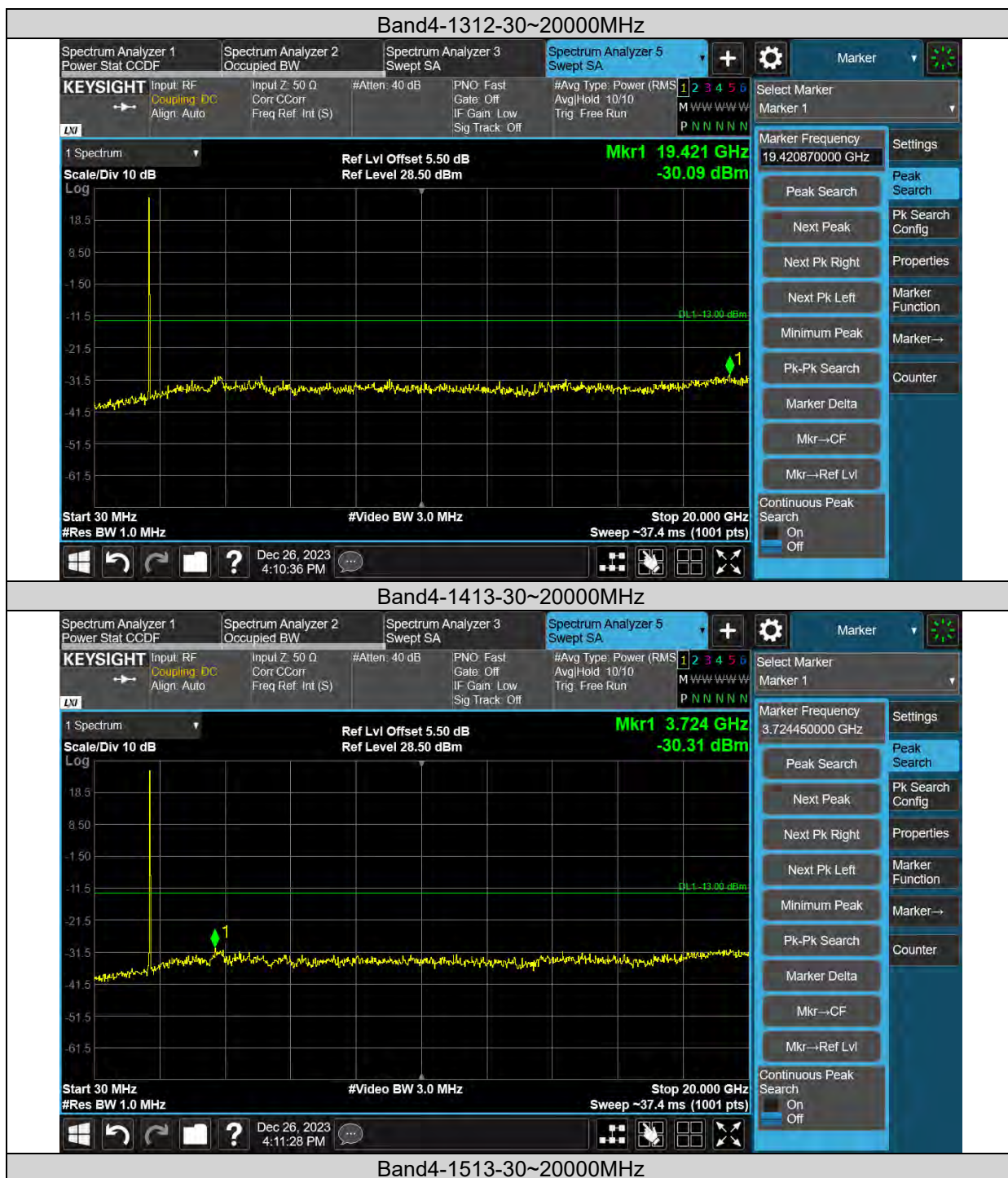


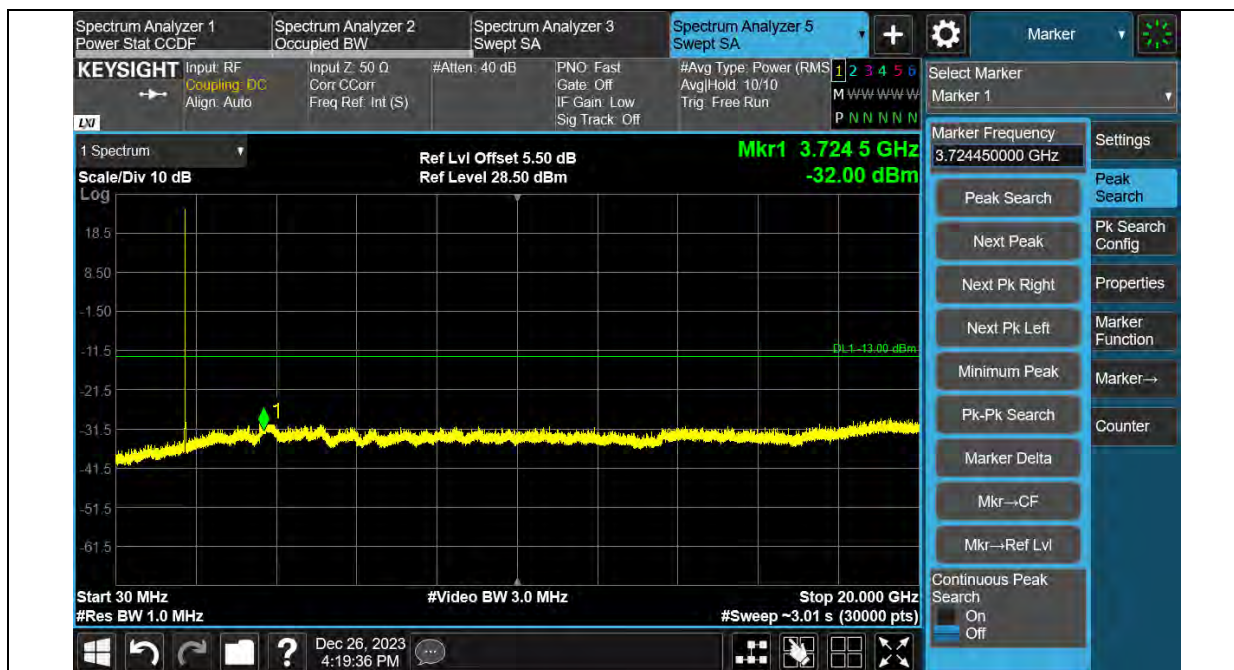
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~20000MHz	See graph	See graph	-13	PASS
Band4	1413	30~20000MHz	See graph	See graph	-13	PASS
Band4	1513	30~20000MHz	See graph	See graph	-13	PASS

Test Graphs





FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	-9.23	-0.005390	±2.5	PASS
Band4	1312	VN	NT	1.72	0.001004	±2.5	PASS
Band4	1312	VH	NT	-3.23	-0.001886	±2.5	PASS
Band4	1413	VL	NT	7.96	0.004555	±2.5	PASS
Band4	1413	VN	NT	-9.71	-0.005556	±2.5	PASS
Band4	1413	VH	NT	4.39	0.002512	±2.5	PASS
Band4	1513	VL	NT	4.46	0.002502	±2.5	PASS
Band4	1513	VN	NT	3	0.001683	±2.5	PASS
Band4	1513	VH	NT	9.65	0.005413	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1712.4	NV	-30	-6.5	-0.003796	±2.5	PASS
Band4	1712.4	NV	-20	6.17	0.003603	±2.5	PASS
Band4	1712.4	NV	0	0.61	0.000356	±2.5	PASS
Band4	1712.4	NV	10	-1.87	-0.001092	±2.5	PASS
Band4	1712.4	NV	20	2.54	0.001483	±2.5	PASS
Band4	1712.4	NV	30	-6.07	-0.003545	±2.5	PASS
Band4	1712.4	NV	40	-2.32	-0.001355	±2.5	PASS
Band4	1712.4	NV	50	9.43	0.005507	±2.5	PASS
Band4	1747.6	NV	-30	5.36	0.003067	±2.5	PASS
Band4	1747.6	NV	-20	-3.27	-0.001871	±2.5	PASS
Band4	1747.6	NV	0	-7.93	-0.004538	±2.5	PASS
Band4	1747.6	NV	10	7.96	0.004555	±2.5	PASS
Band4	1747.6	NV	20	6.14	0.003513	±2.5	PASS
Band4	1747.6	NV	30	4.42	0.002529	±2.5	PASS
Band4	1747.6	NV	40	-9.08	-0.005196	±2.5	PASS
Band4	1747.6	NV	50	-7.75	-0.004435	±2.5	PASS
Band4	1782.6	NV	-30	5.32	0.002984	±2.5	PASS
Band4	1782.6	NV	-20	-4.53	-0.002541	±2.5	PASS
Band4	1782.6	NV	0	9.06	0.005082	±2.5	PASS
Band4	1782.6	NV	10	-1.51	-0.000847	±2.5	PASS
Band4	1782.6	NV	20	5	0.002805	±2.5	PASS
Band4	1782.6	NV	30	5.81	0.003259	±2.5	PASS
Band4	1782.6	NV	40	5.94	0.003332	±2.5	PASS
Band4	1782.6	NV	50	5	0.002805	±2.5	PASS

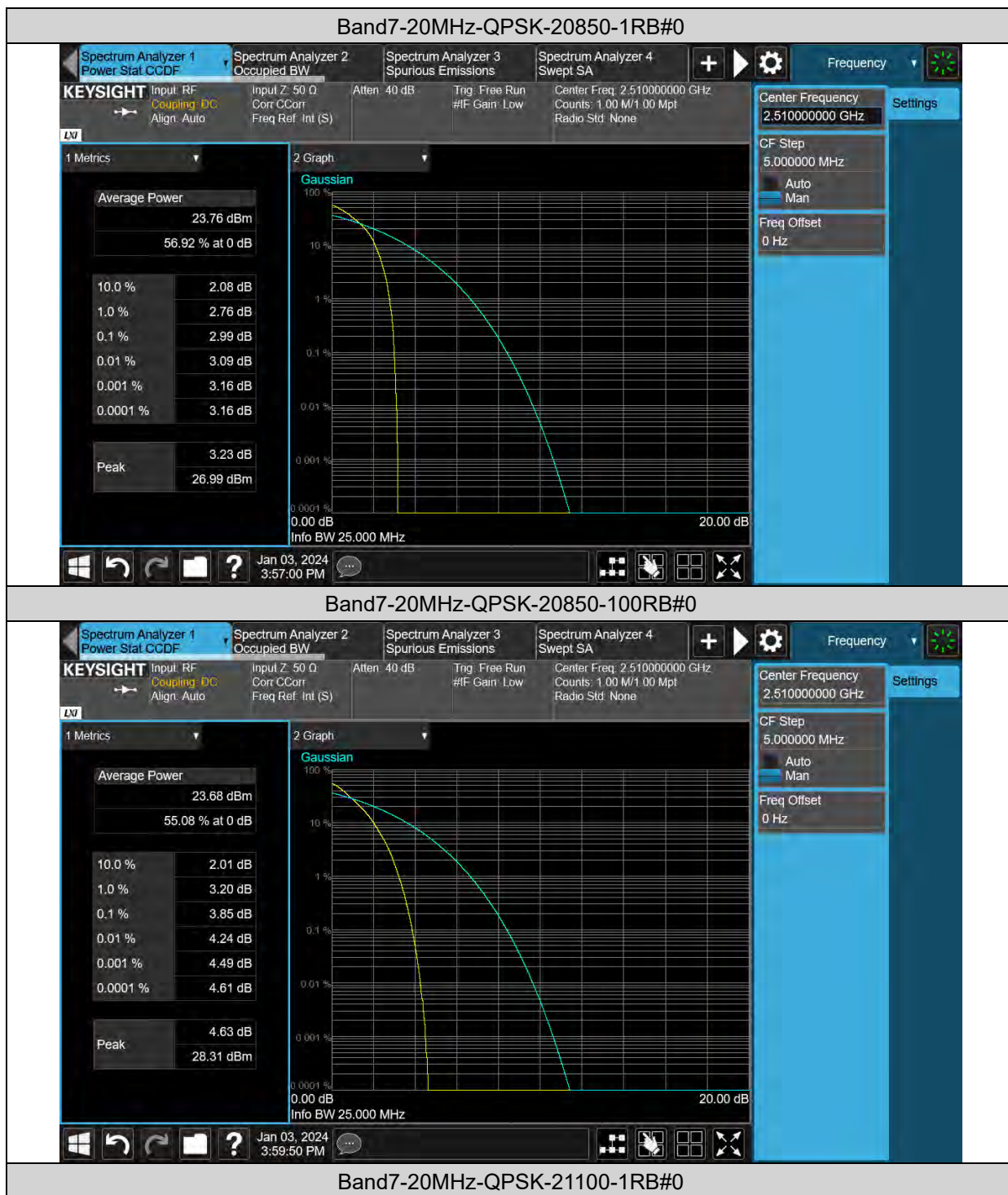
LTE BAND7

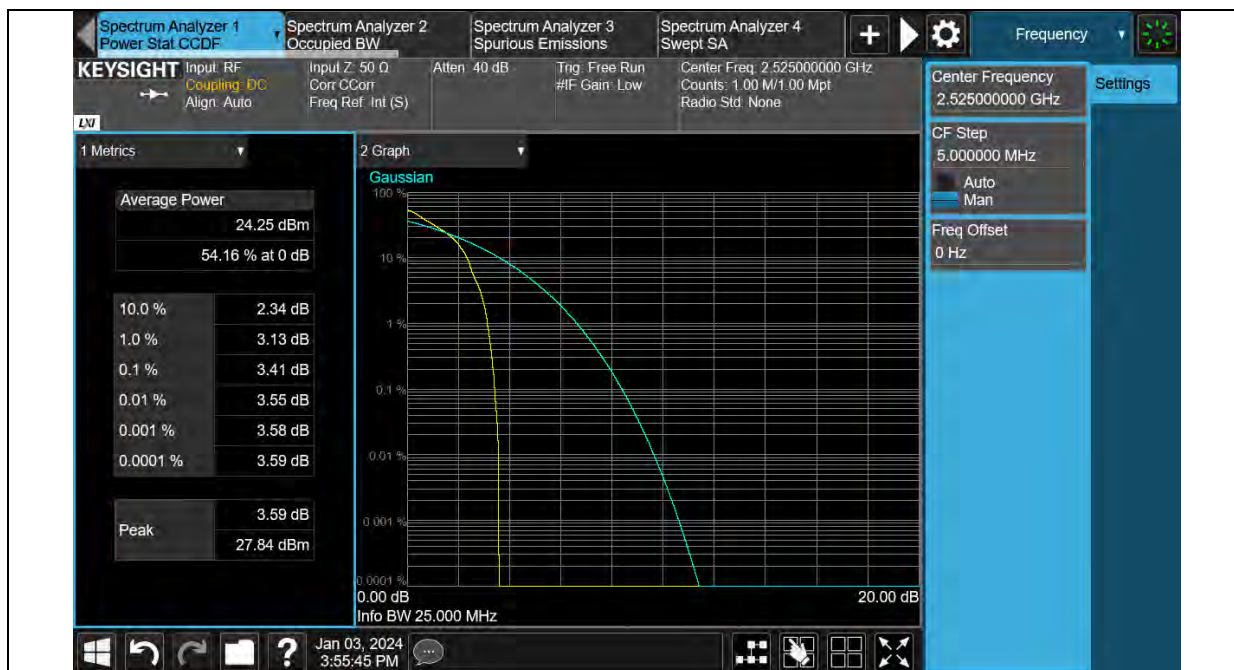
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

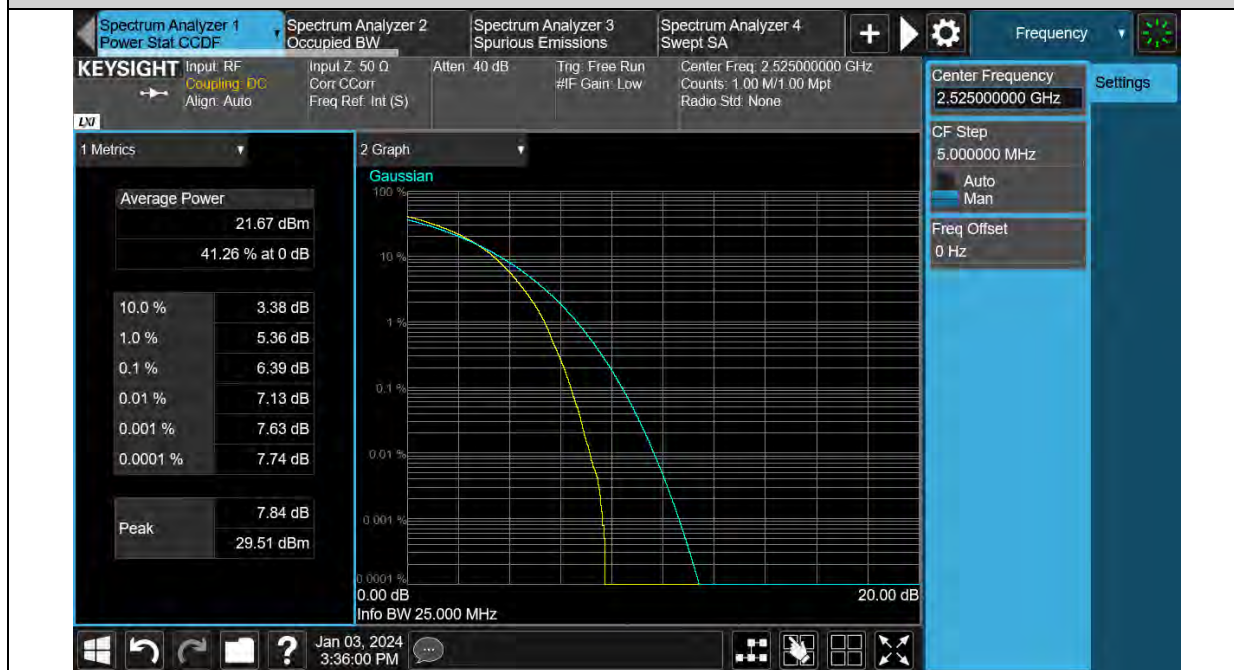
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	2.99	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	3.85	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.41	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	6.39	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	2.87	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.10	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	3.59	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	4.79	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.31	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	7.05	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	3.83	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.22	13	PASS
Band7	20MHz	64QAM	20850	1RB#0	4.35	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	5.58	13	PASS
Band7	20MHz	64QAM	21100	1RB#0	5.24	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	7.32	13	PASS
Band7	20MHz	64QAM	21350	1RB#0	4.45	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.07	13	PASS

Test Graphs

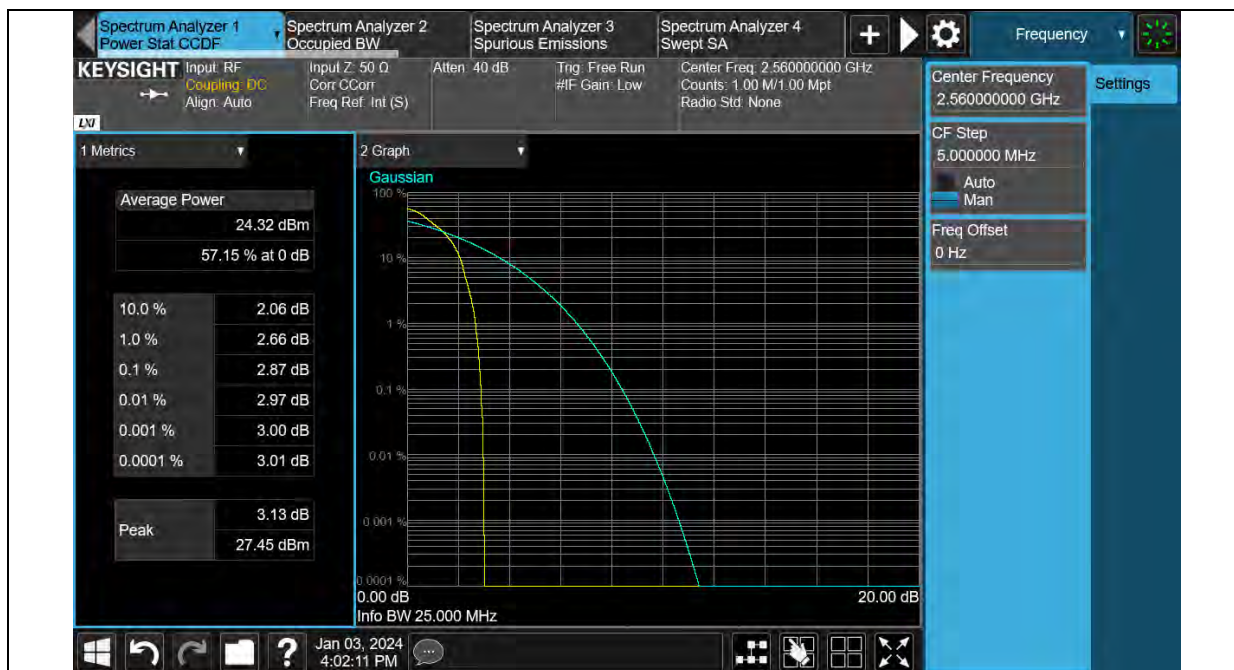




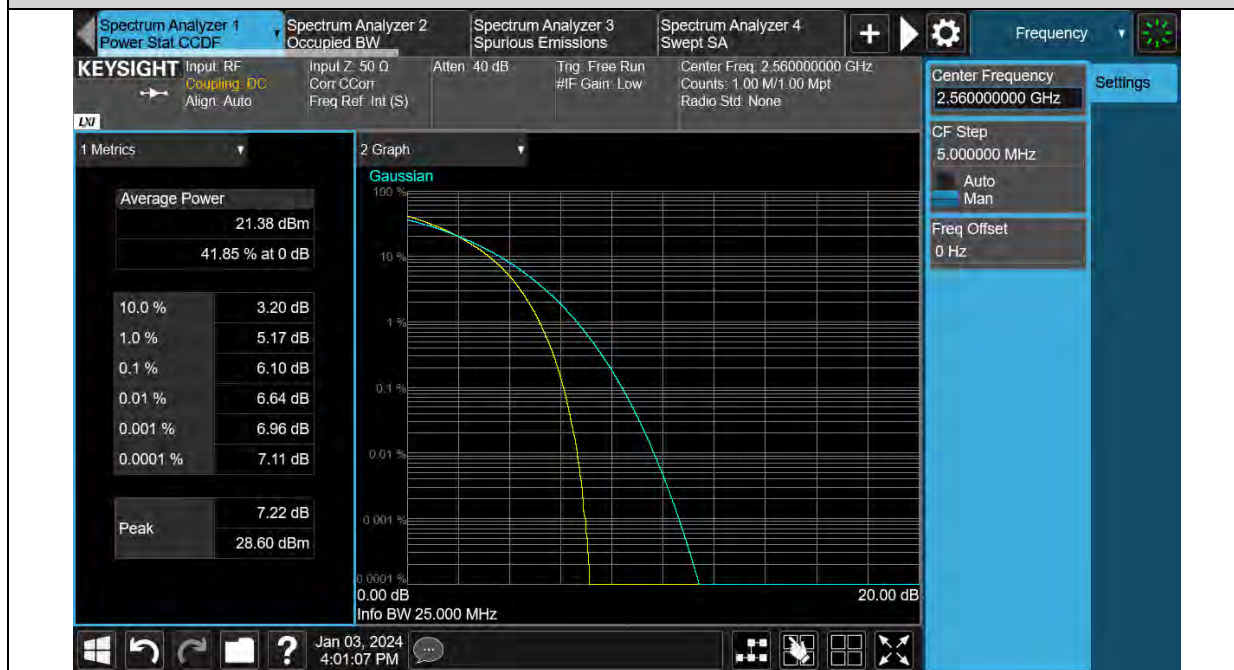
Band7-20MHz-QPSK-21100-100RB#0



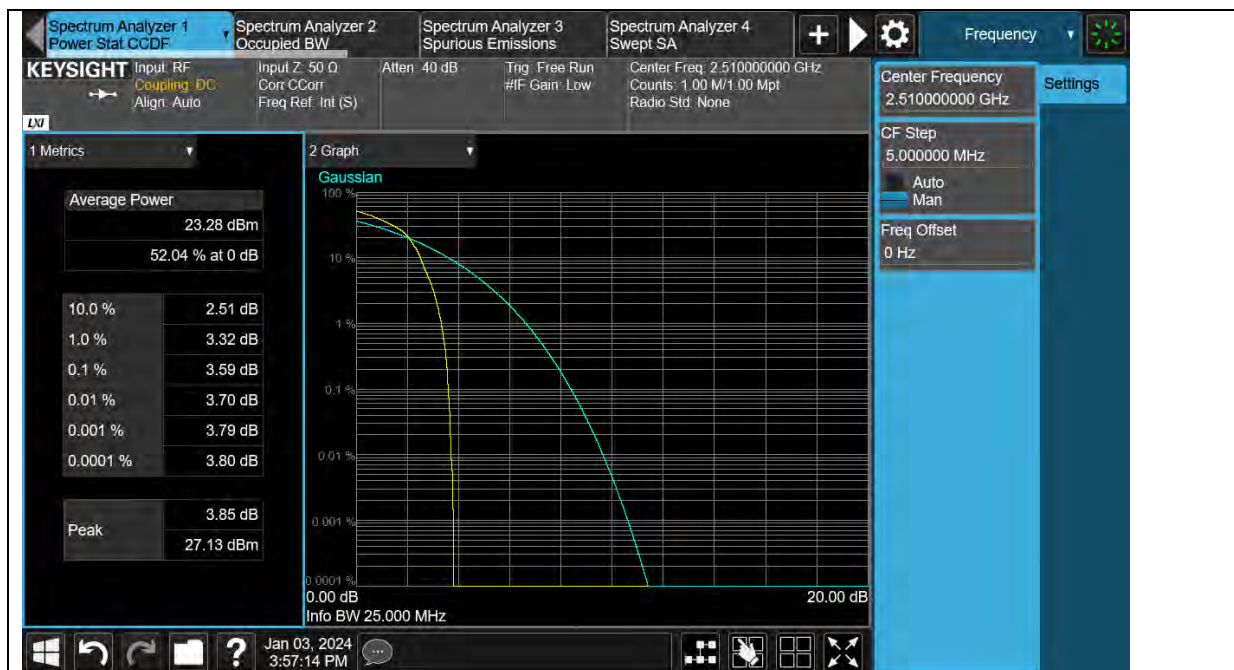
Band7-20MHz-QPSK-21350-1RB#0



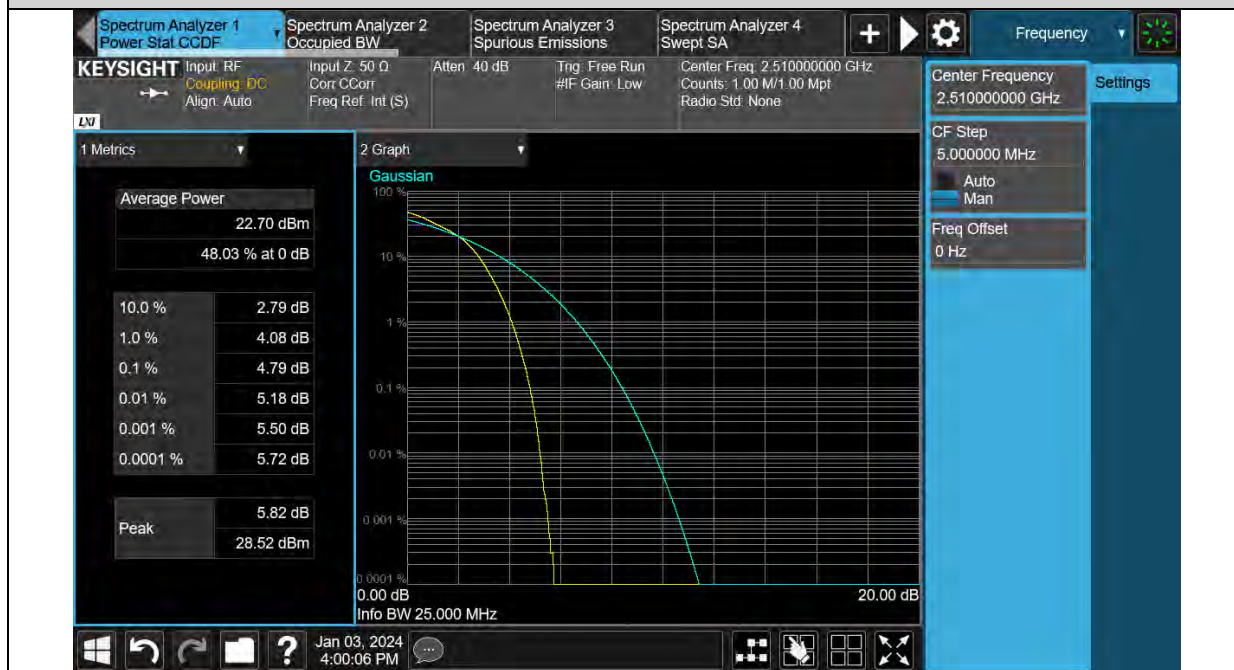
Band7-20MHz-QPSK-21350-100RB#0



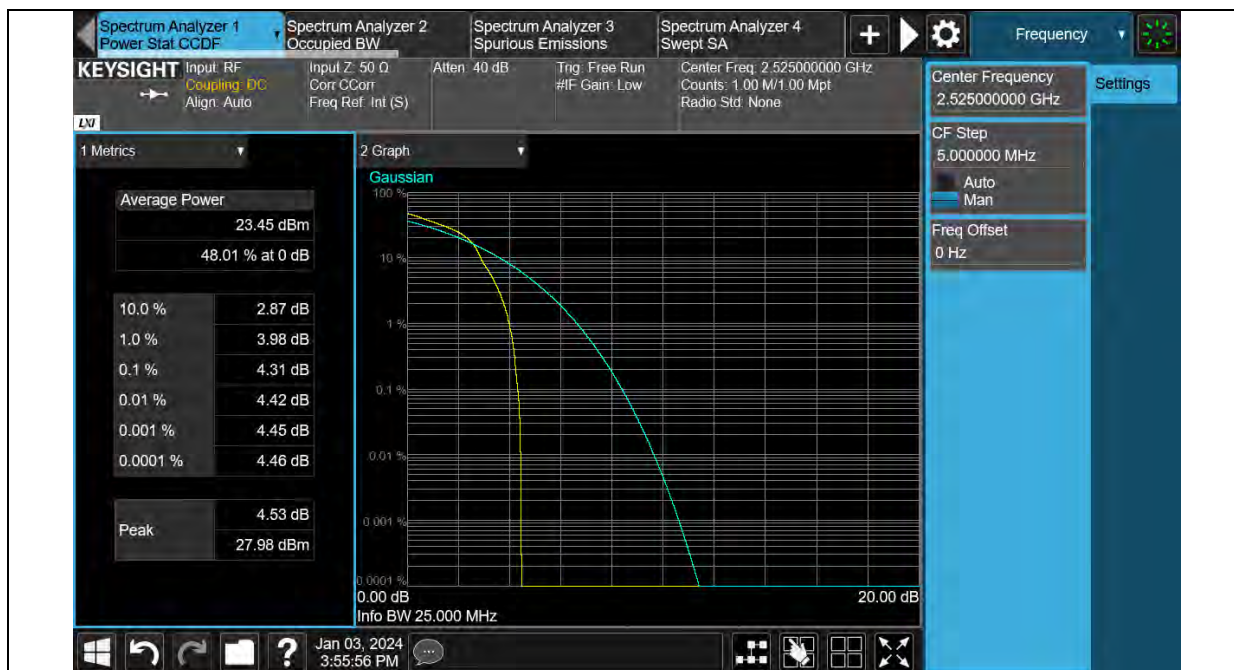
Band7-20MHz-16QAM-20850-1RB#0



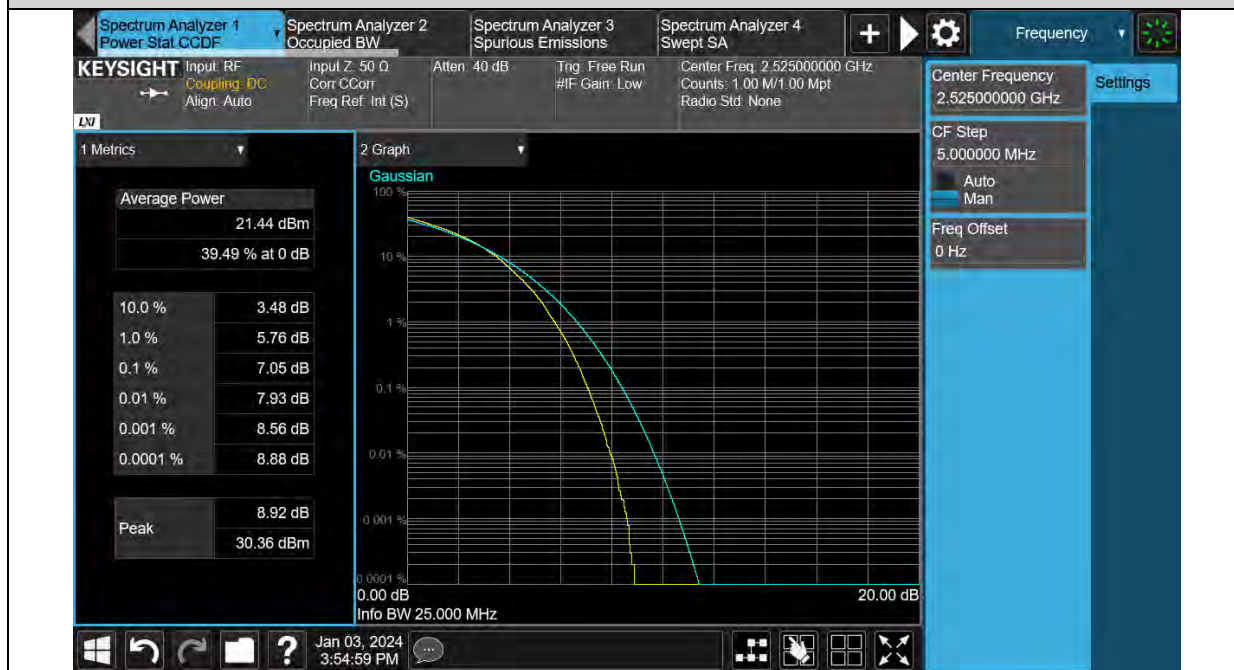
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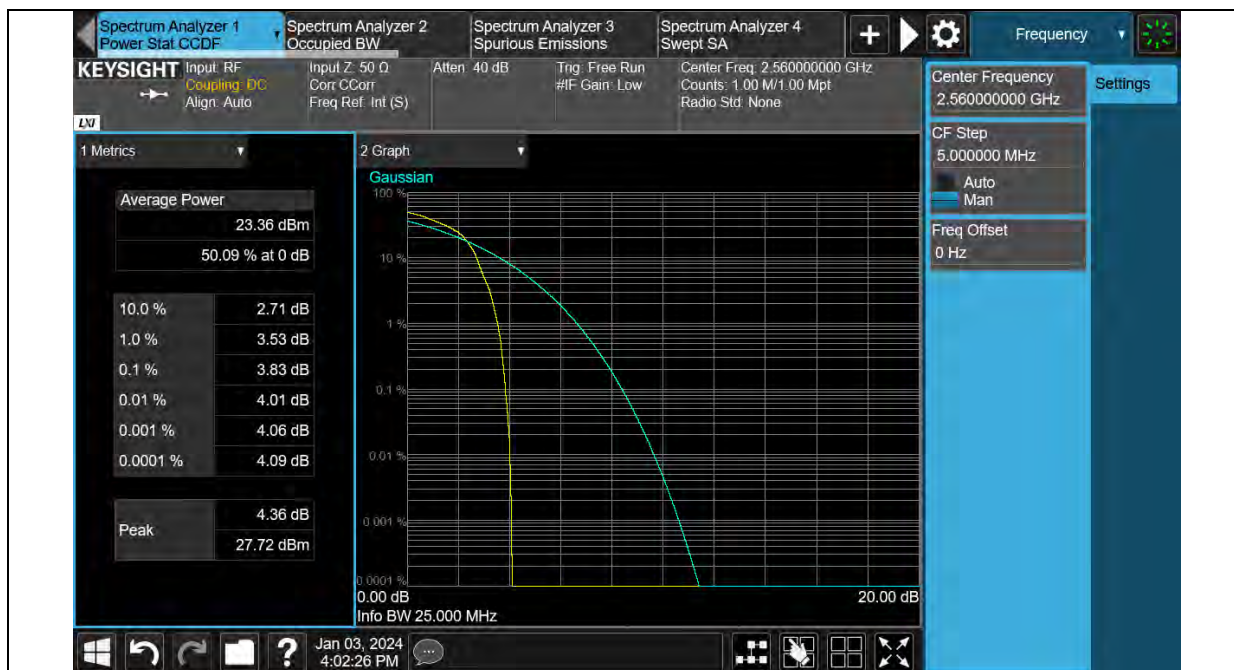
Band7-20MHz-16QAM-21100-1RB#0



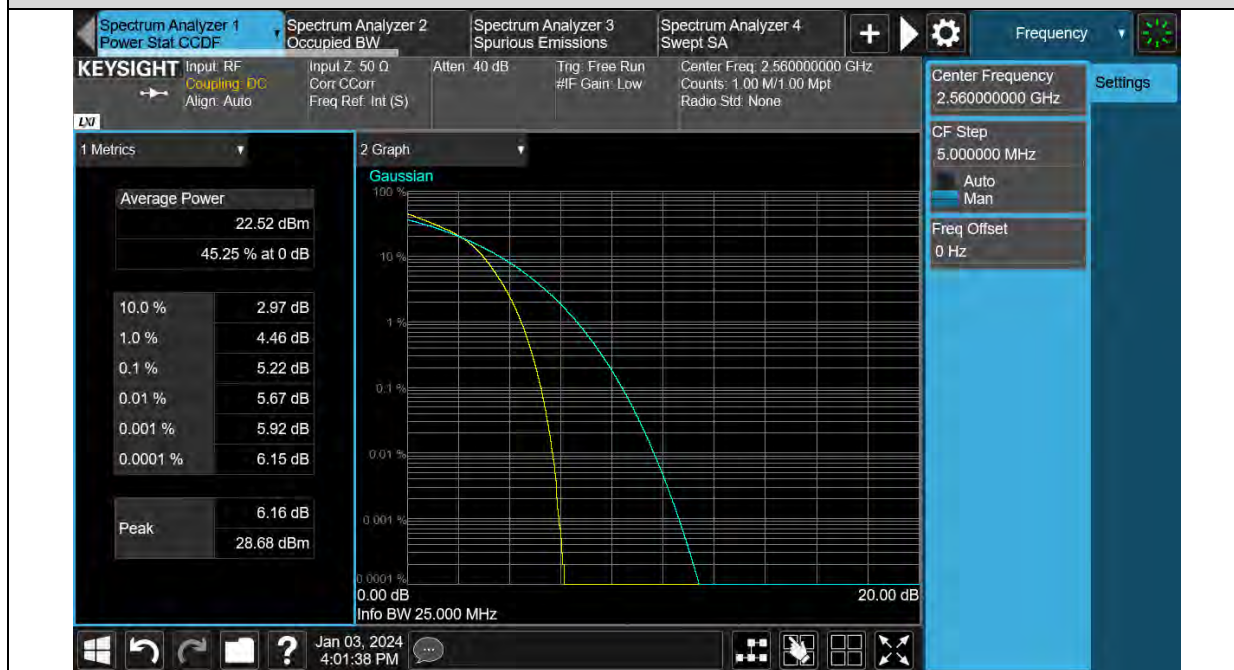
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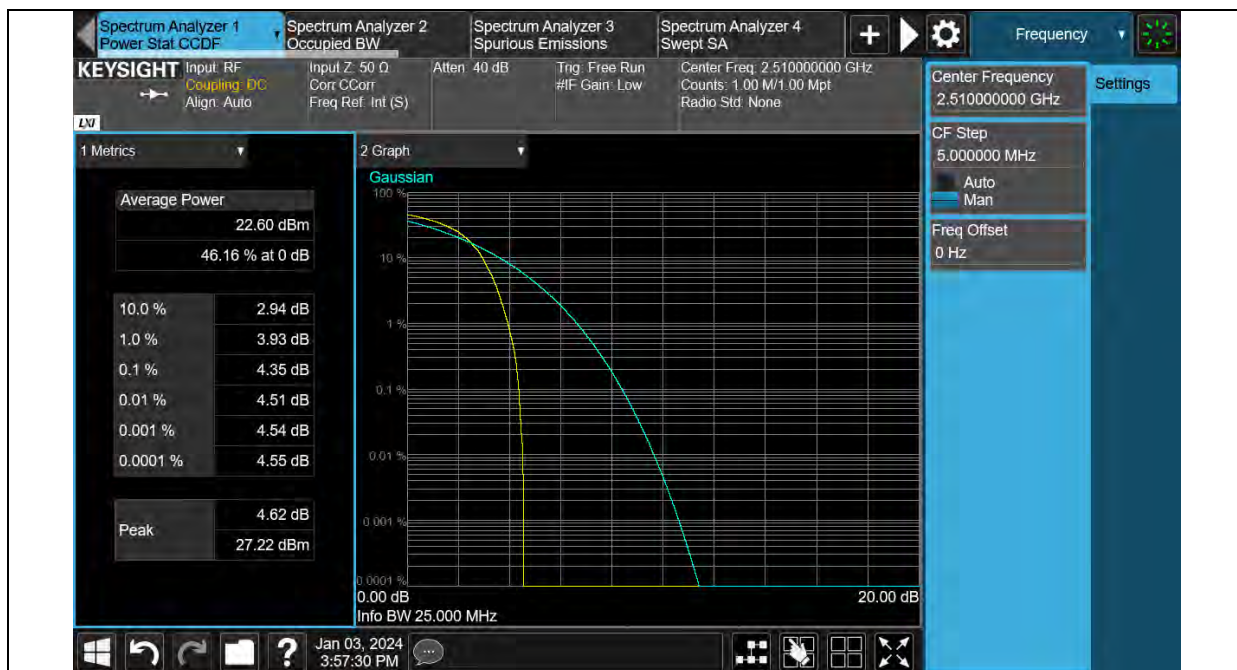
Band7-20MHz-16QAM-21350-1RB#0



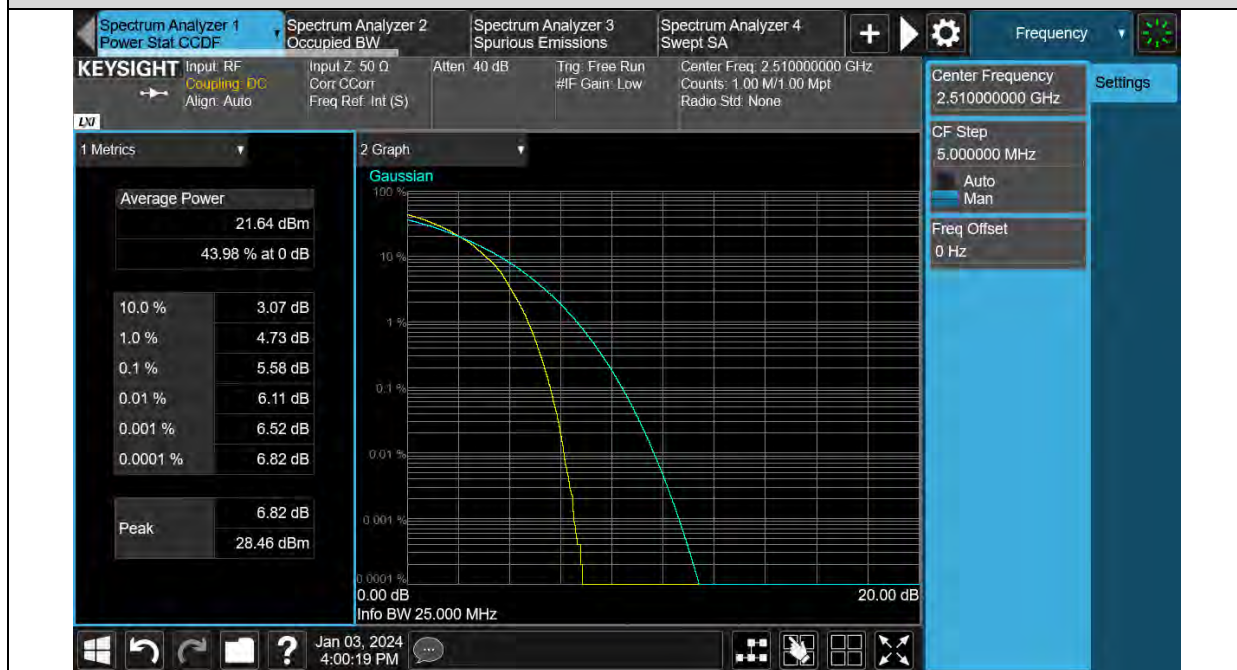
Band7-20MHz-16QAM-21350-100RB#0



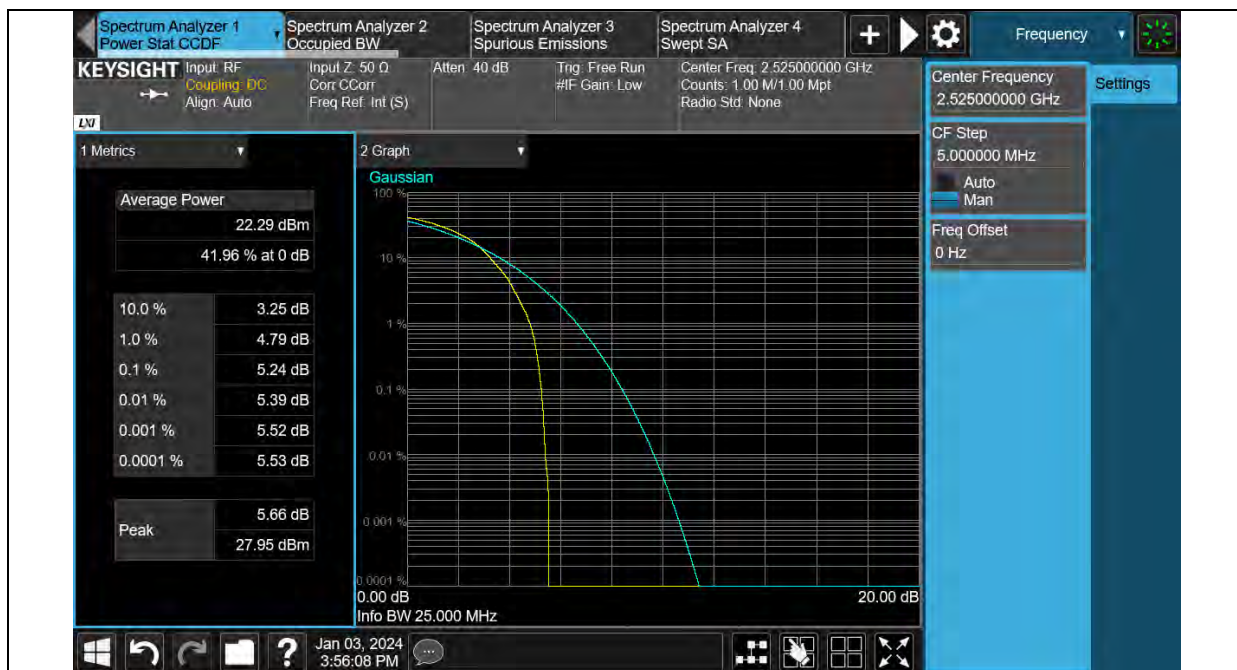
Band7-20MHz-64QAM-20850-1RB#0



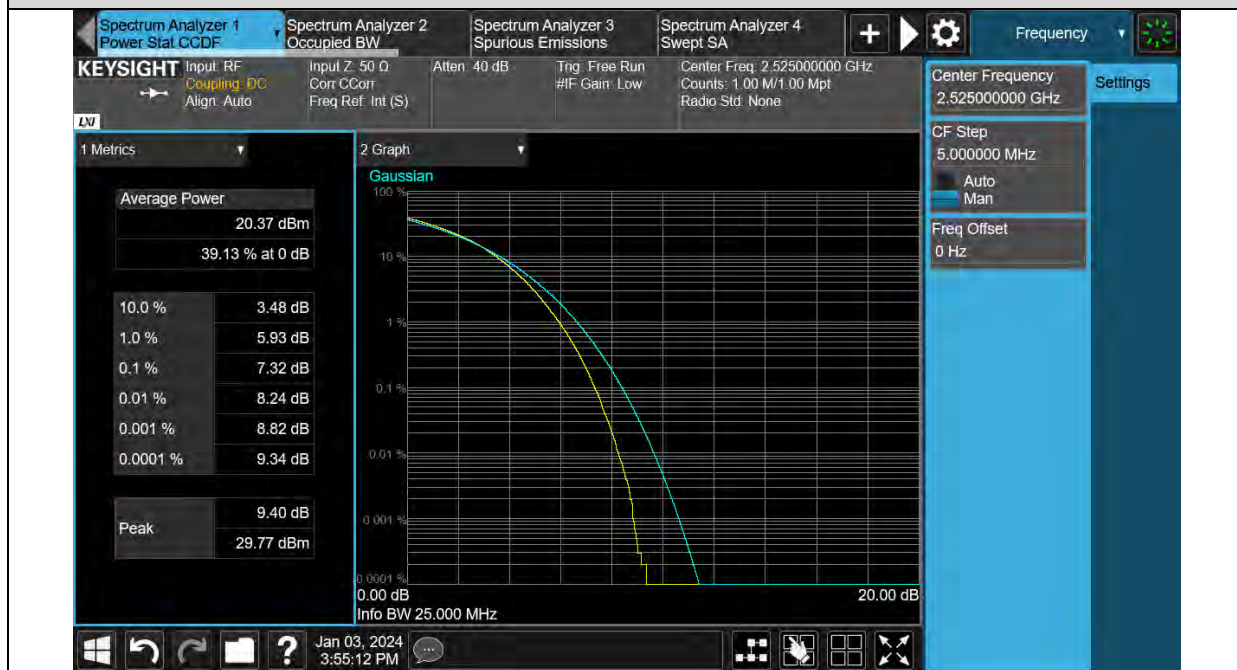
Band7-20MHz-64QAM-20850-100RB#0



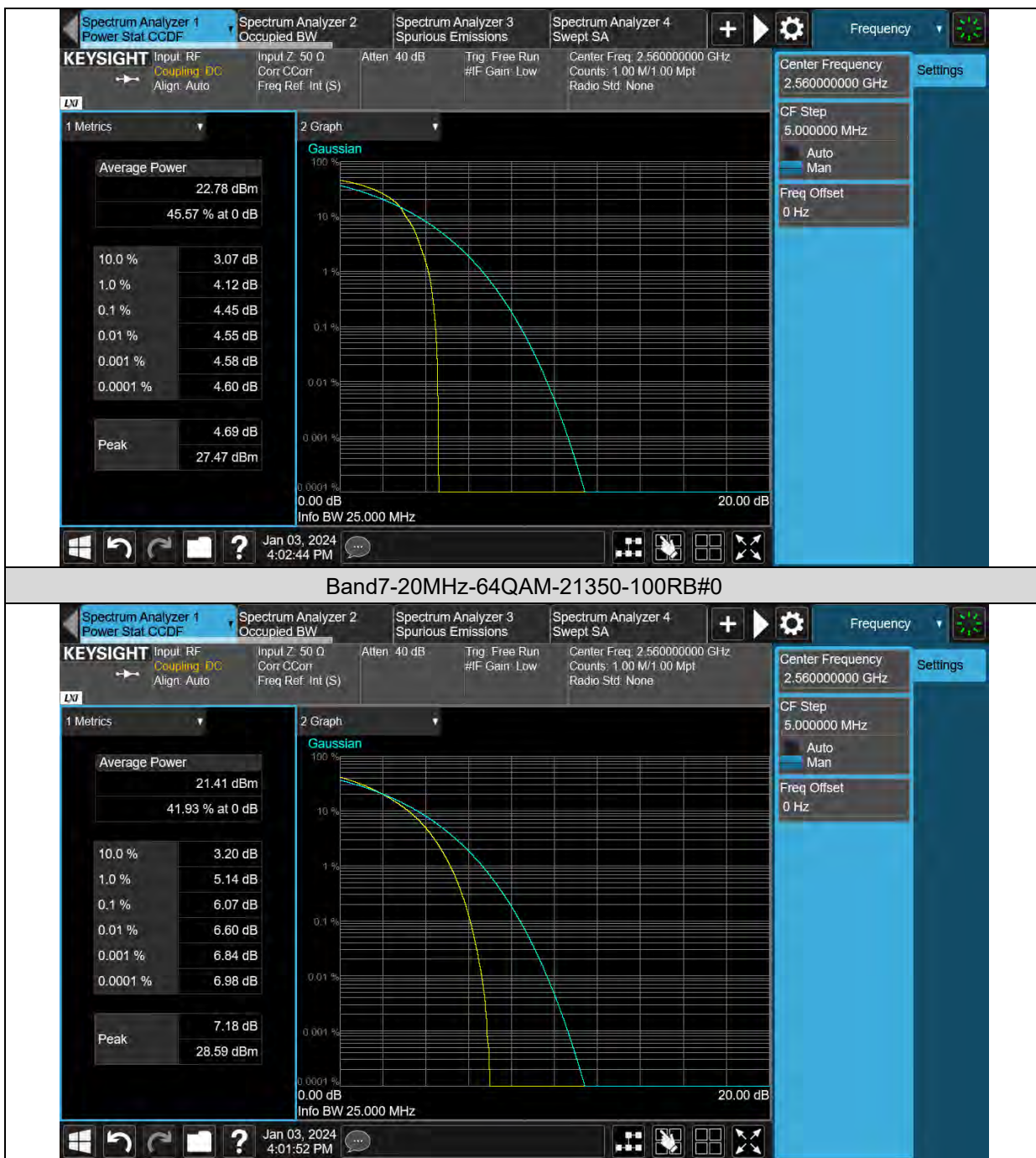
Band7-20MHz-64QAM-21100-1RB#0



Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-64QAM-21350-1RB#0



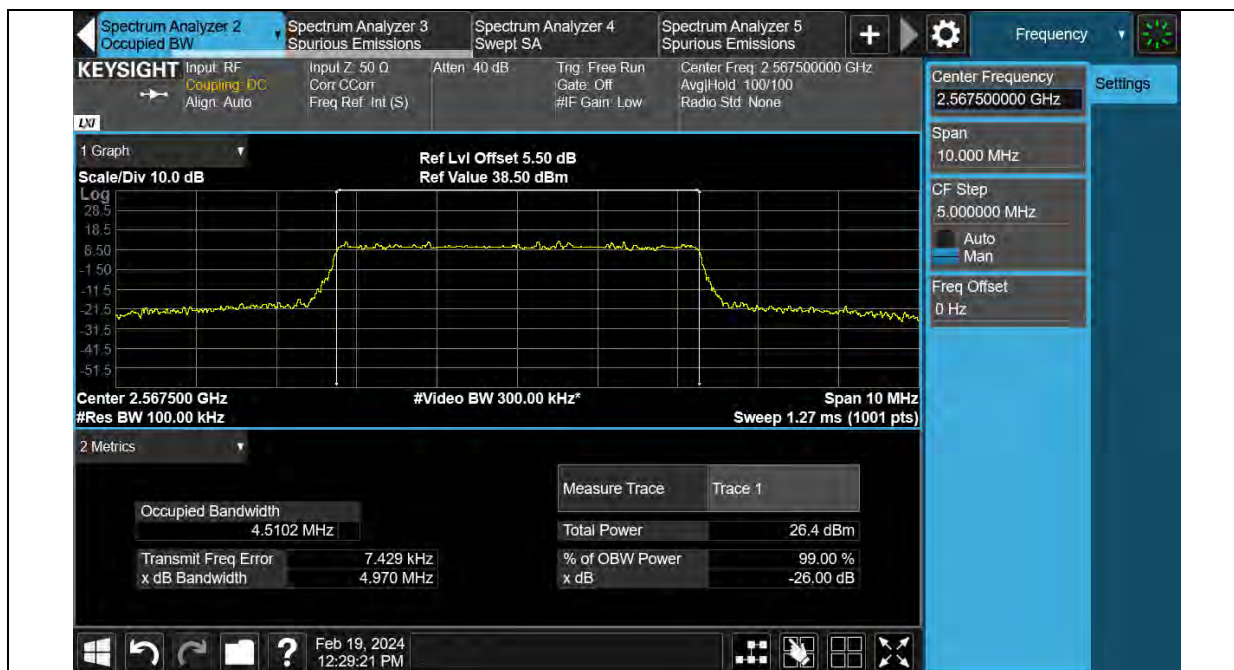
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

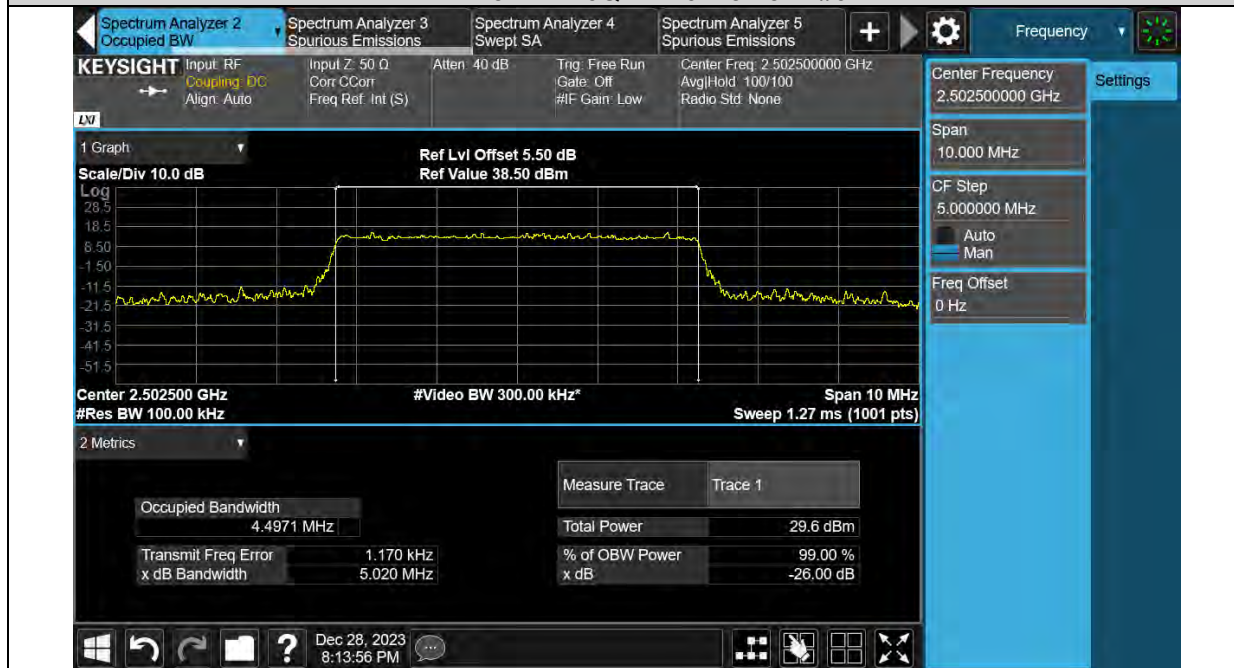
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5195	4.951	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5068	4.857	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5102	4.970	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4971	5.020	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5035	4.954	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5156	4.940	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.5162	4.918	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.5245	4.982	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.5070	4.996	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9934	9.795	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9793	9.678	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9792	9.635	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9558	9.721	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9726	9.770	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9608	9.726	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9827	9.595	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.9738	9.668	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.9714	9.675	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.575	15.55	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.496	14.43	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.480	14.76	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.521	15.11	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.521	14.40	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.508	14.45	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.472	14.66	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.445	14.41	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.435	14.50	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.032	24.93	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.943	19.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.918	19.07	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.010	21.12	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.932	19.17	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.941	19.34	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.989	19.26	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.930	19.15	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.928	19.18	PASS

Test Graphs

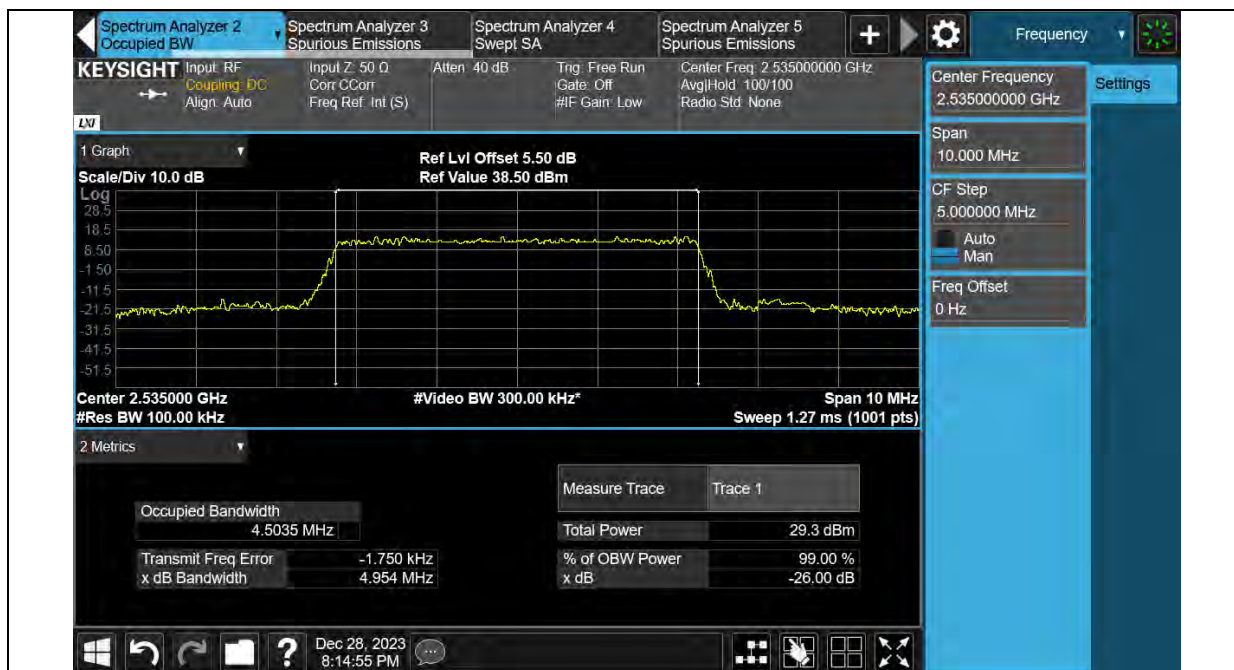




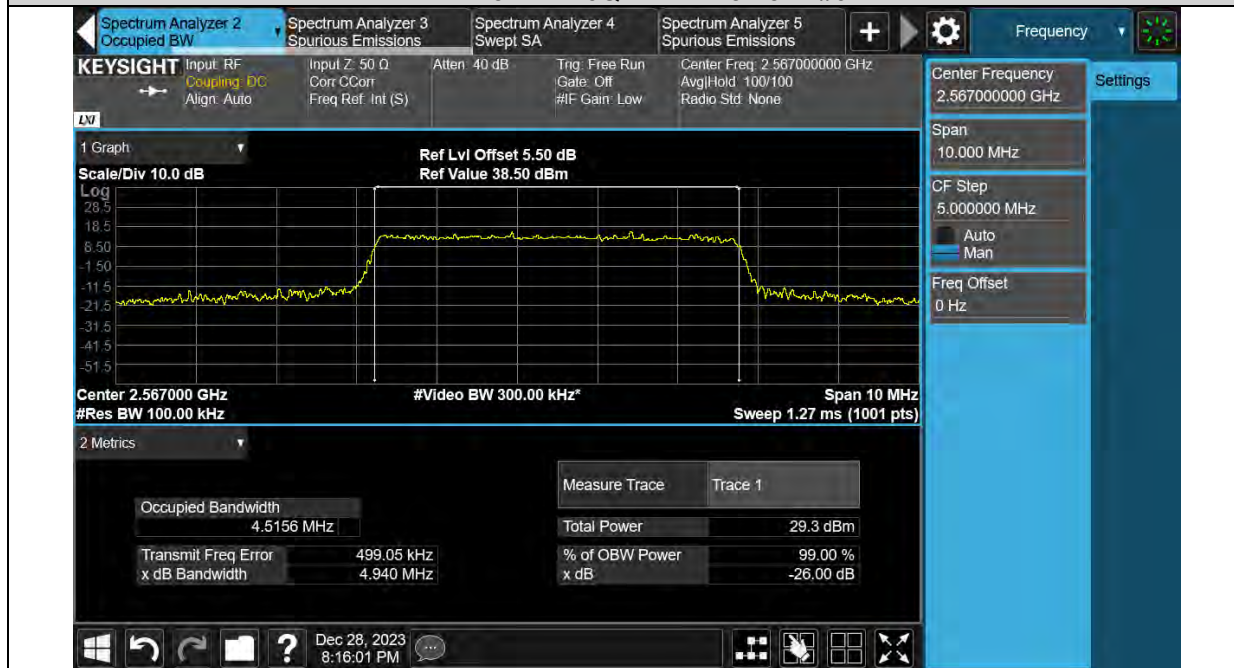
Band7-5MHz-16QAM-20775-25RB#0



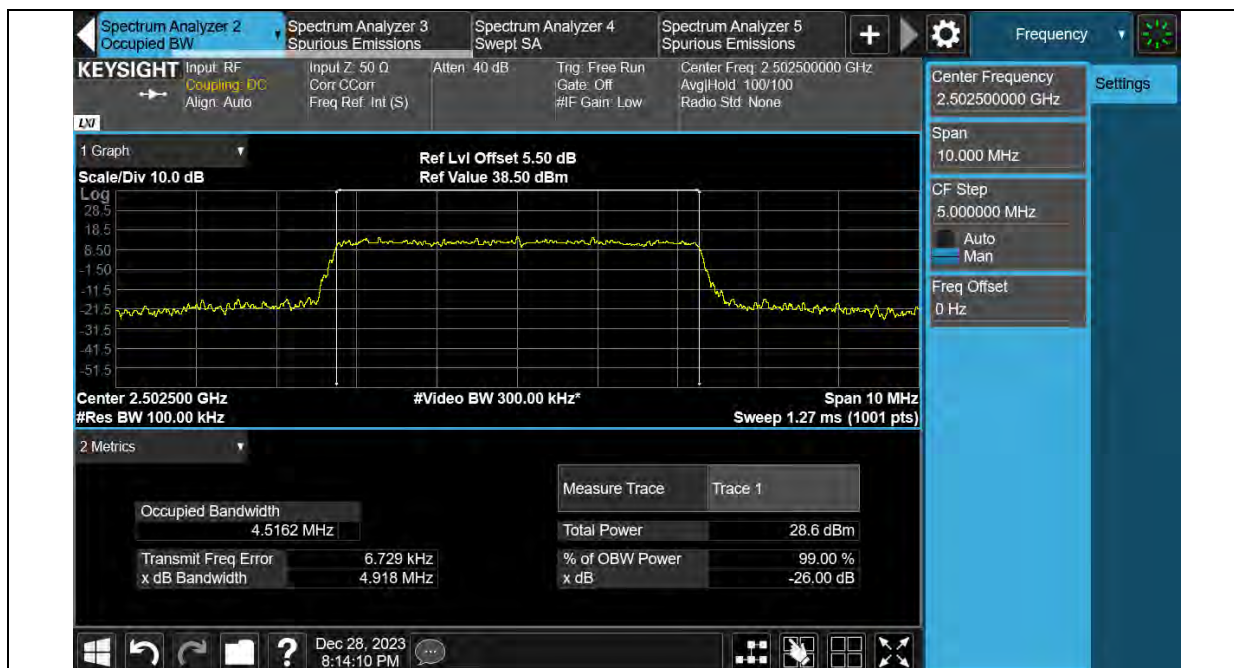
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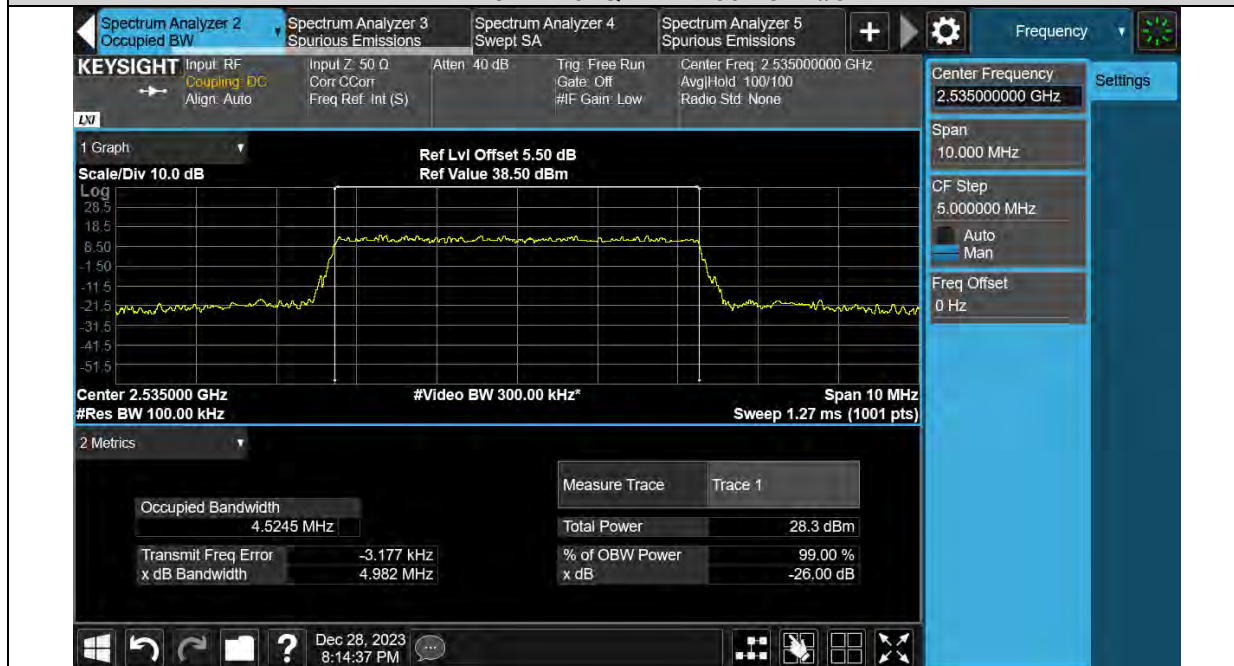
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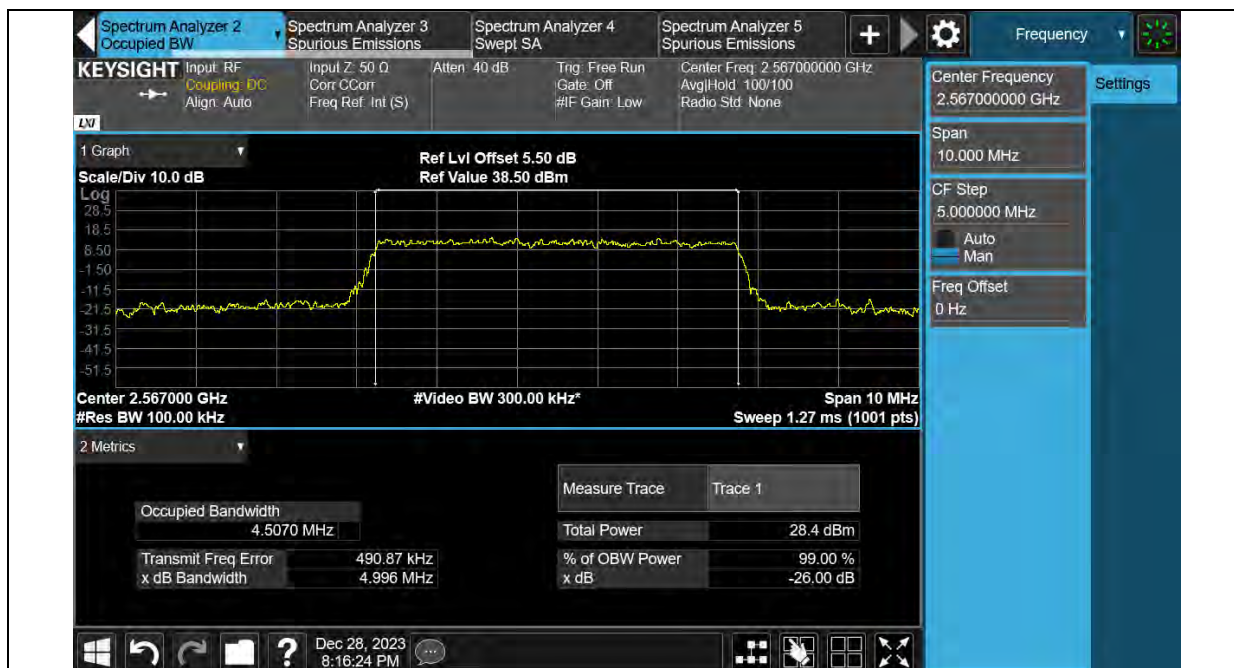
Band7-5MHz-64QAM-20775-25RB#0



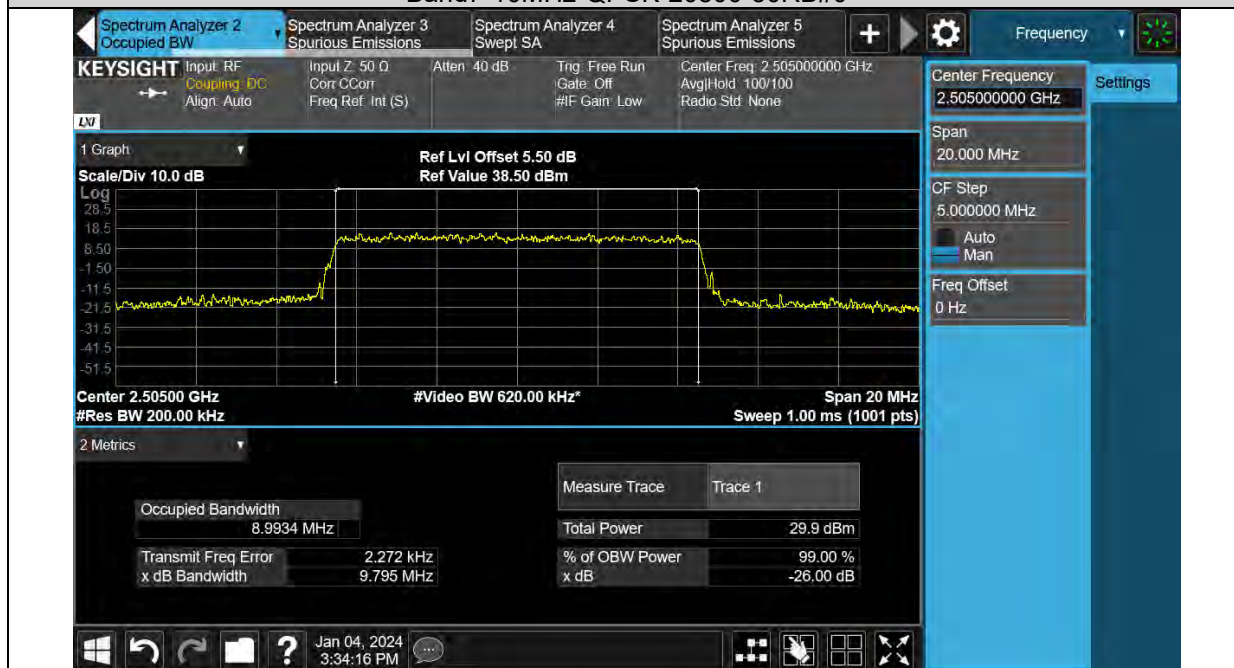
Band7-5MHz-64QAM-21100-25RB#0



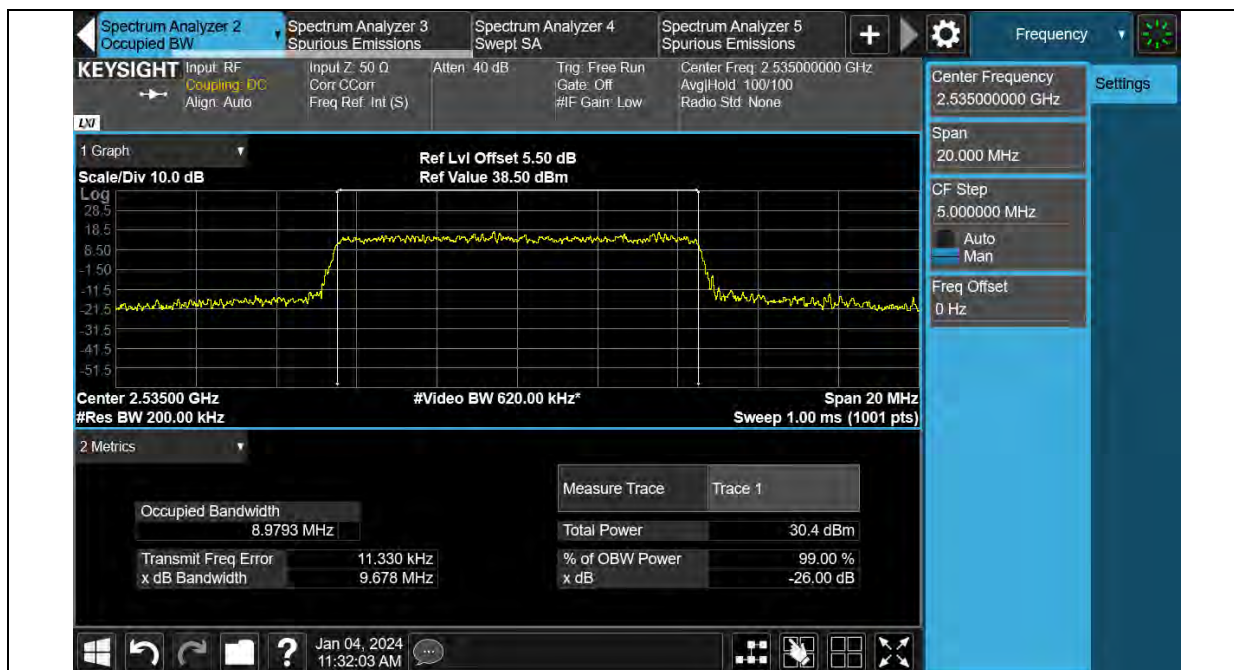
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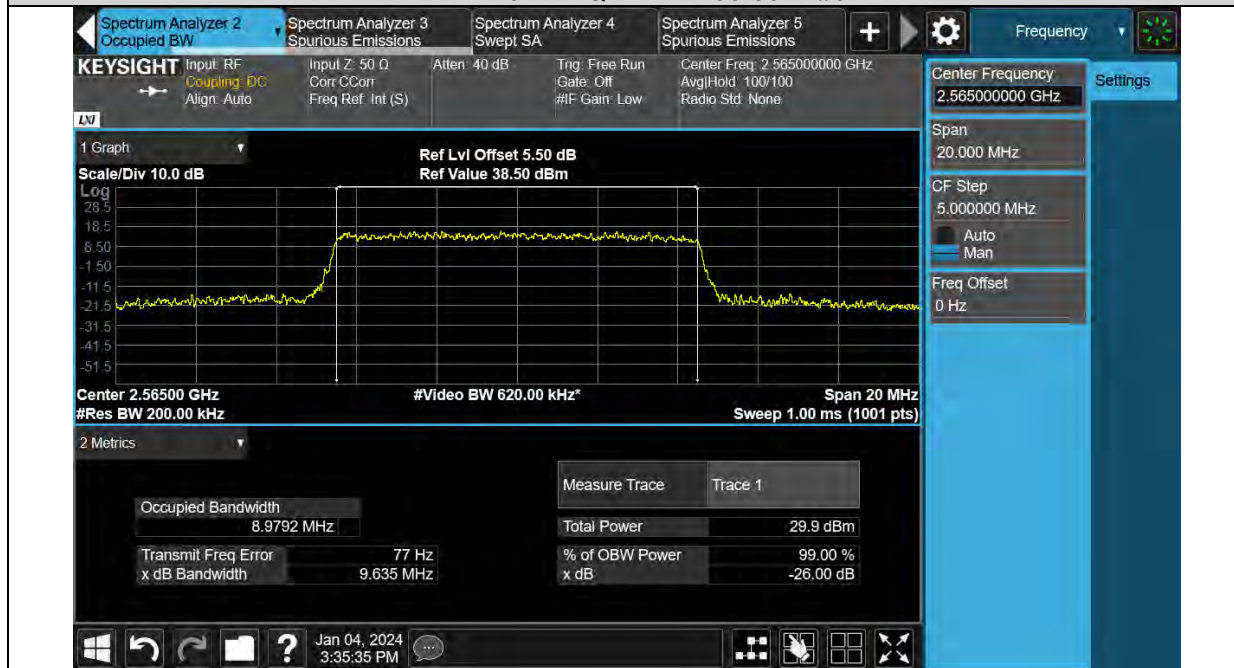
Band7-10MHz-QPSK-20800-50RB#0



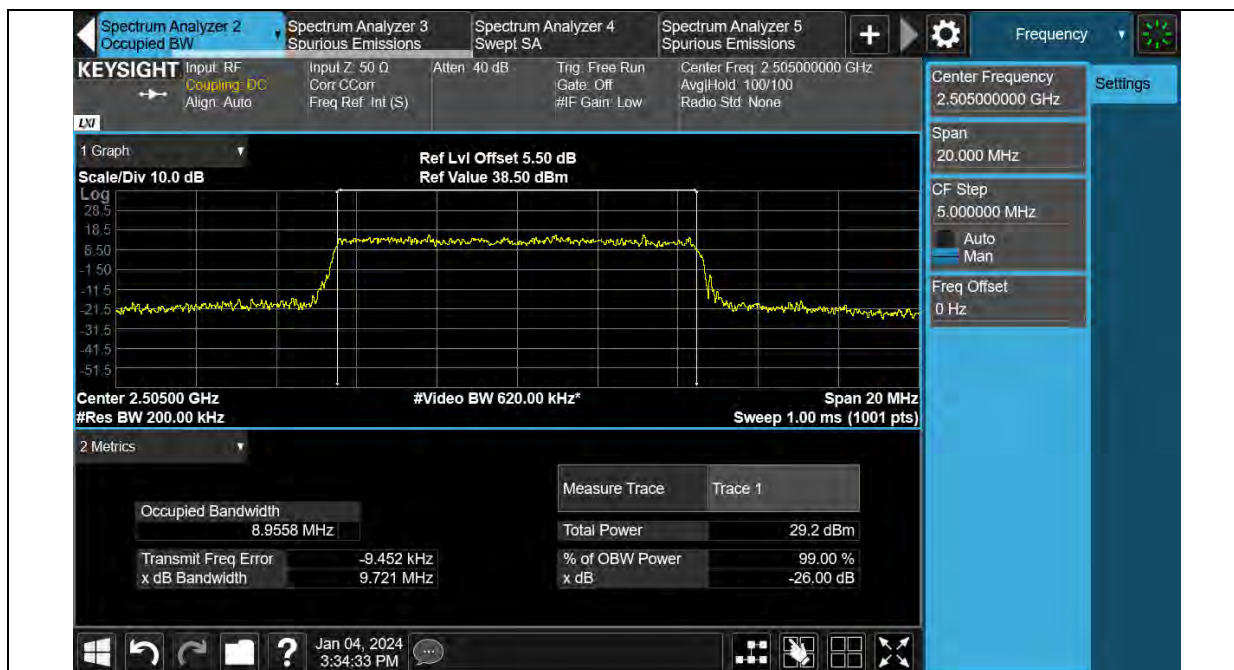
Band7-10MHz-QPSK-21100-50RB#0



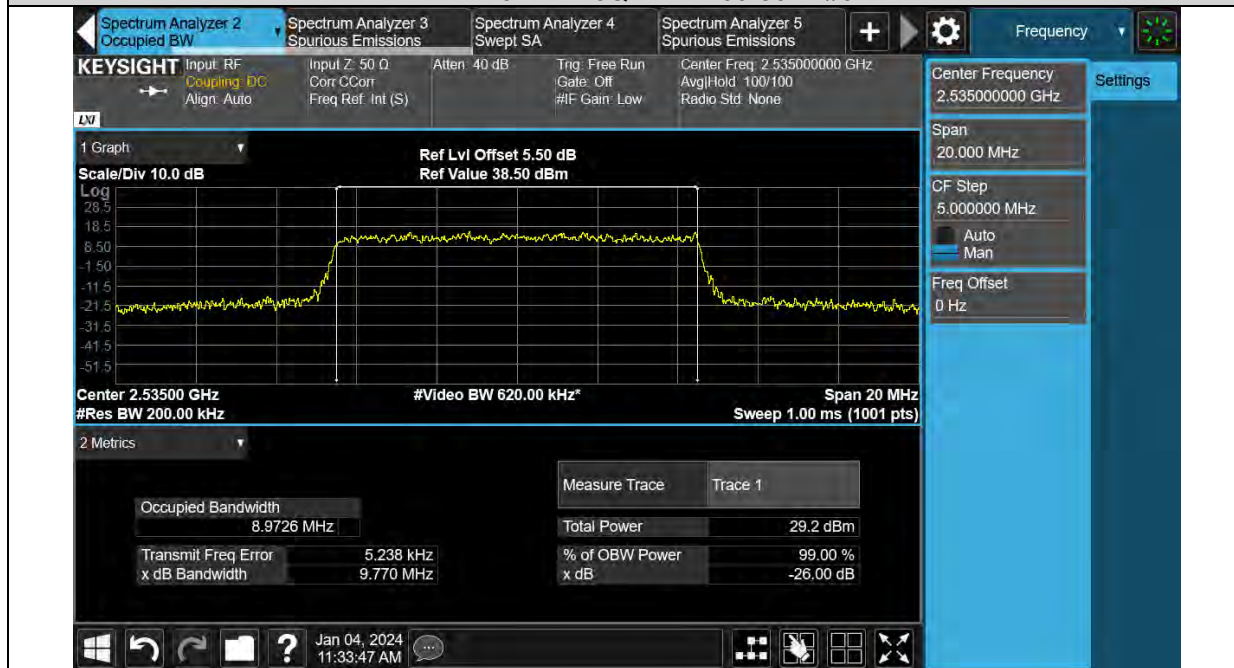
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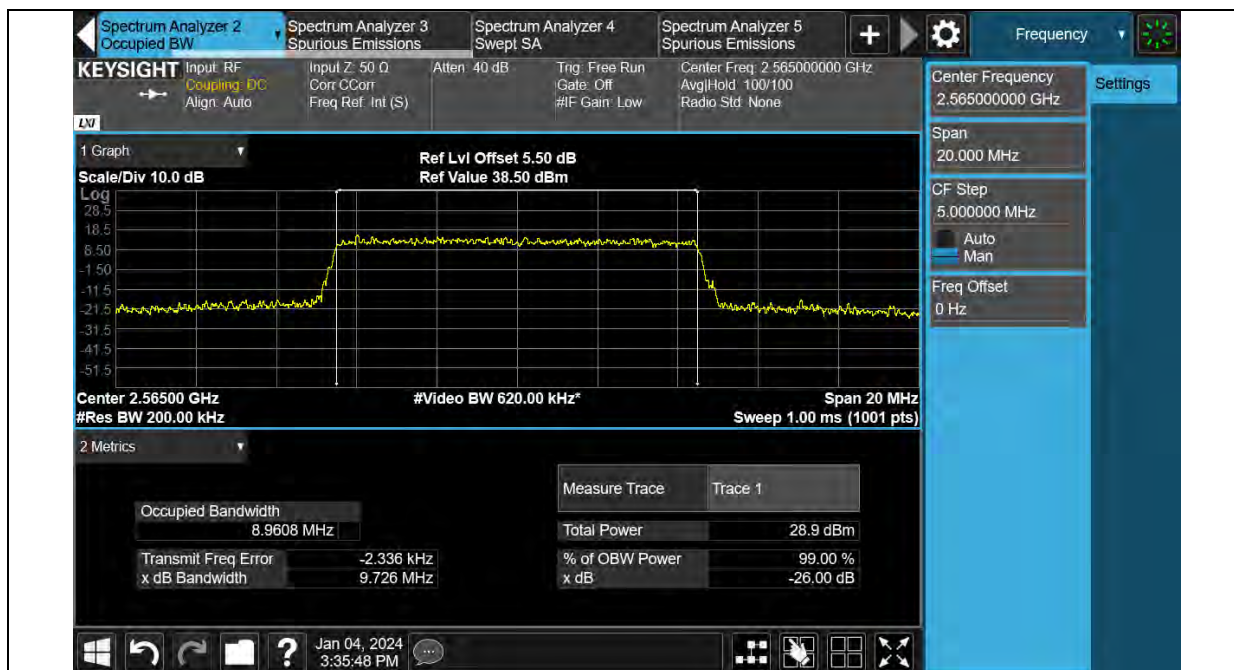
Band7-10MHz-16QAM-20800-50RB#0



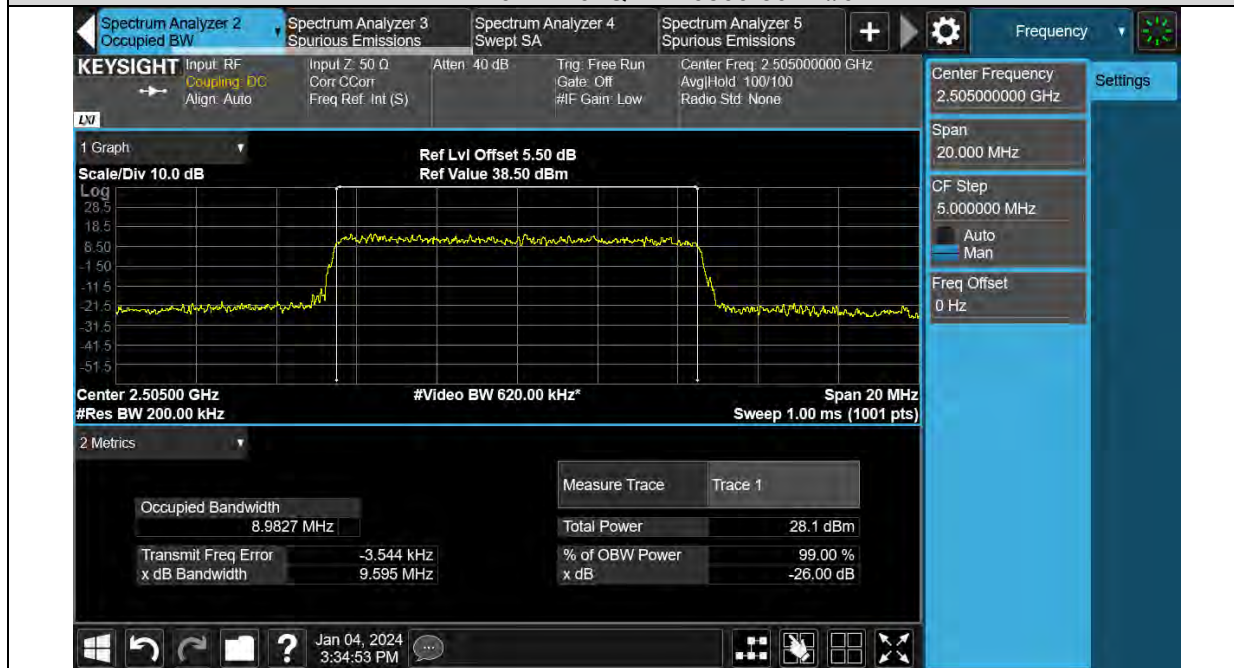
Band7-10MHz-16QAM-21100-50RB#0



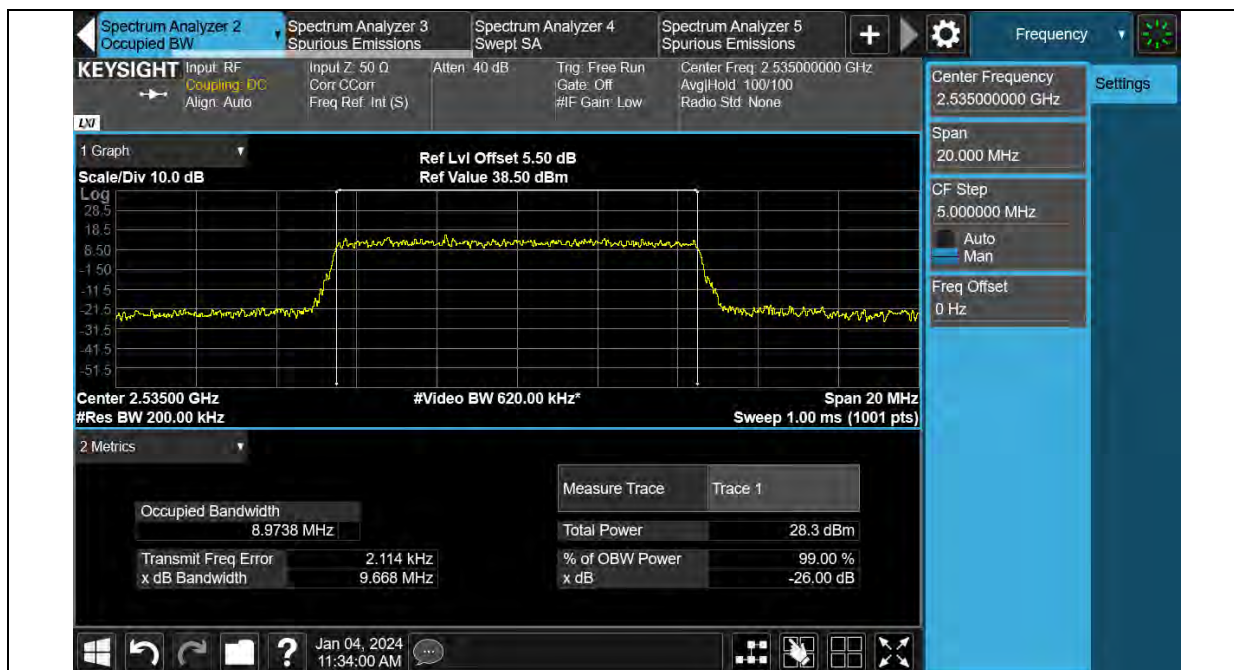
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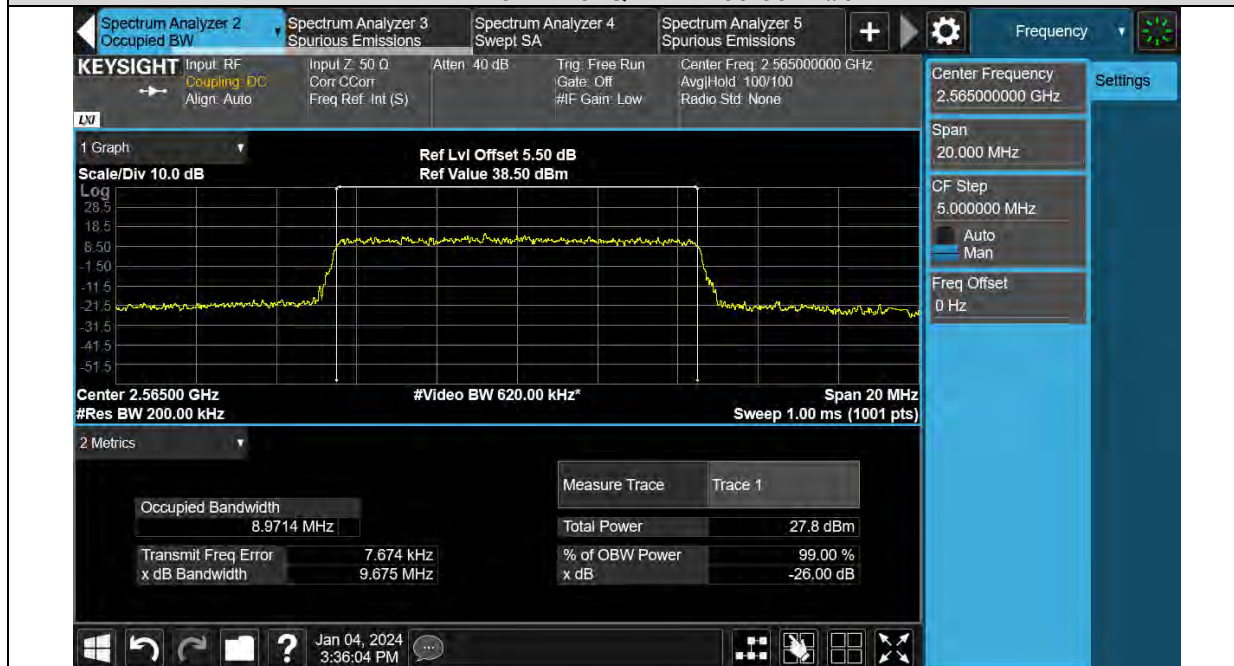
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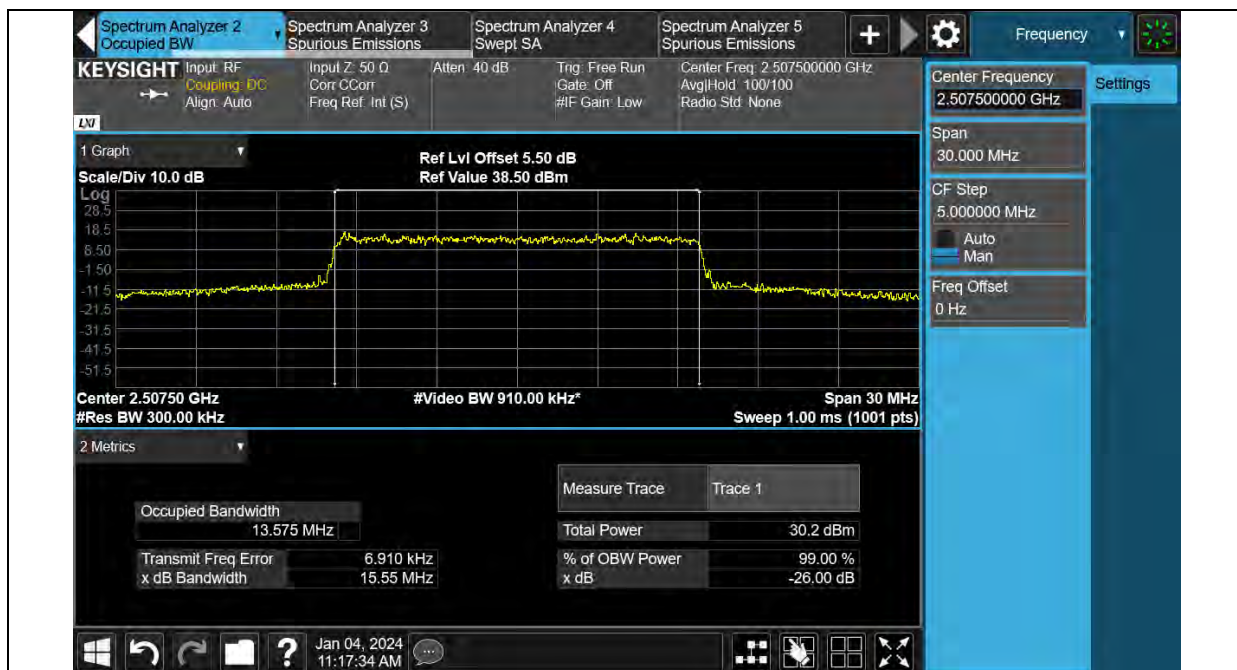
Band7-10MHz-64QAM-21100-50RB#0



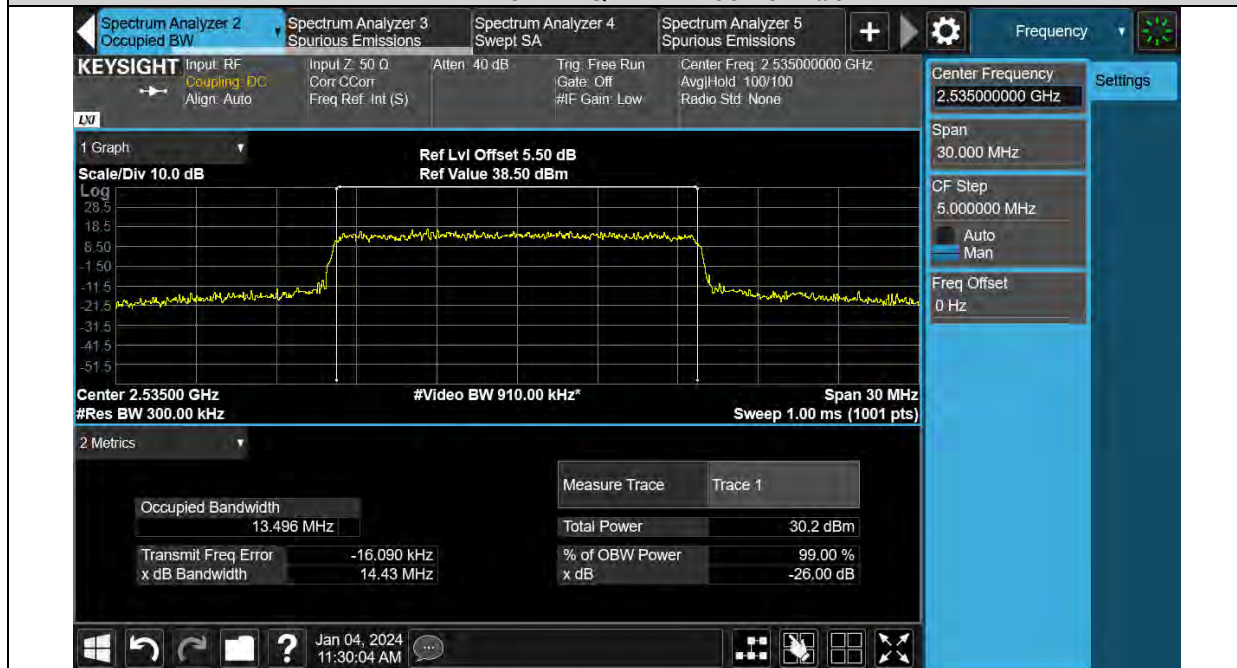
Band7-10MHz-64QAM-21400-50RB#0



Band7-15MHz-QPSK-20825-75RB#0



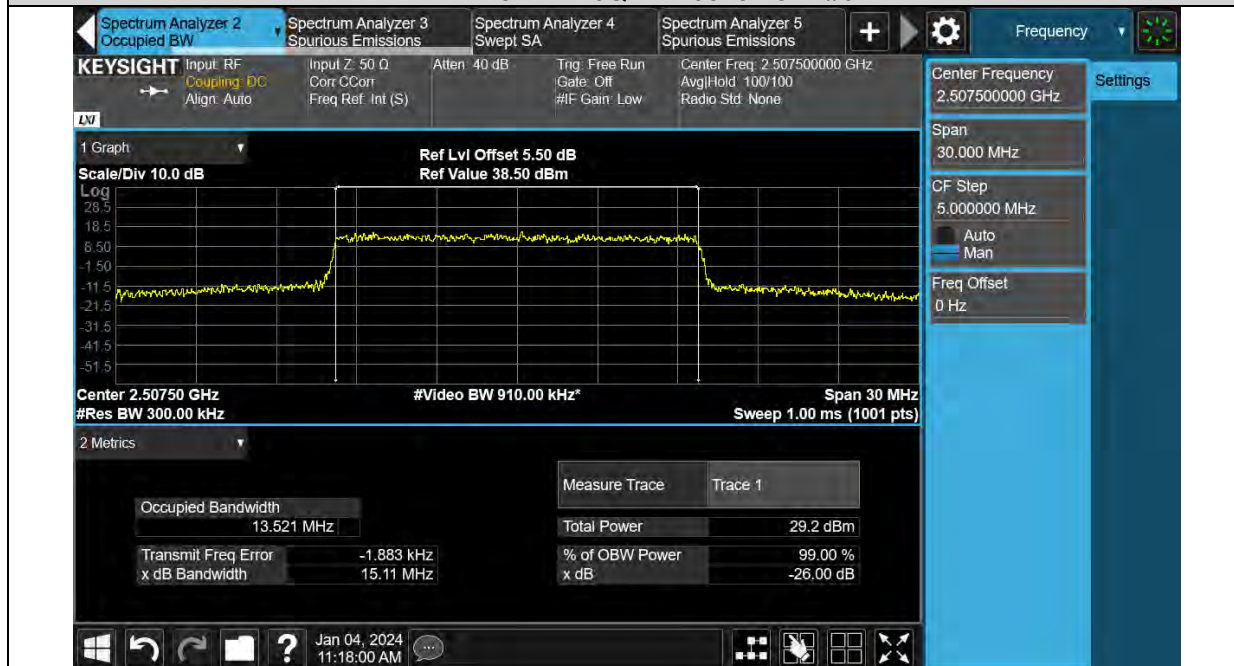
Band7-15MHz-QPSK-21100-75RB#0



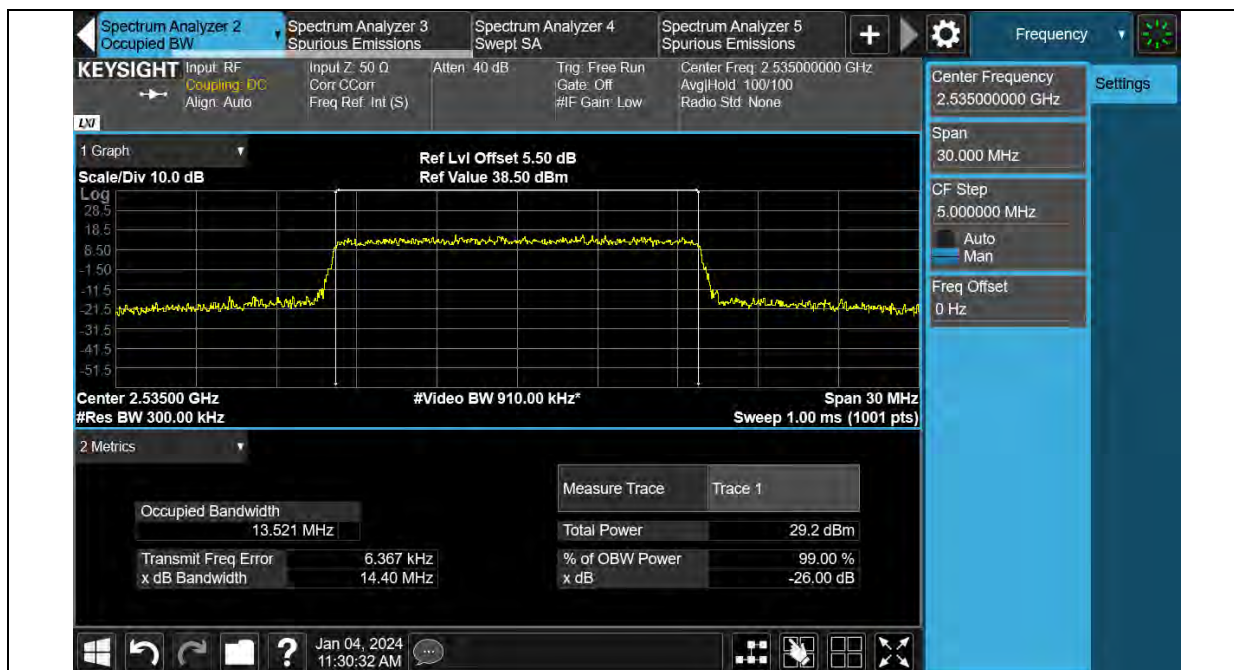
Band7-15MHz-QPSK-21375-75RB#0



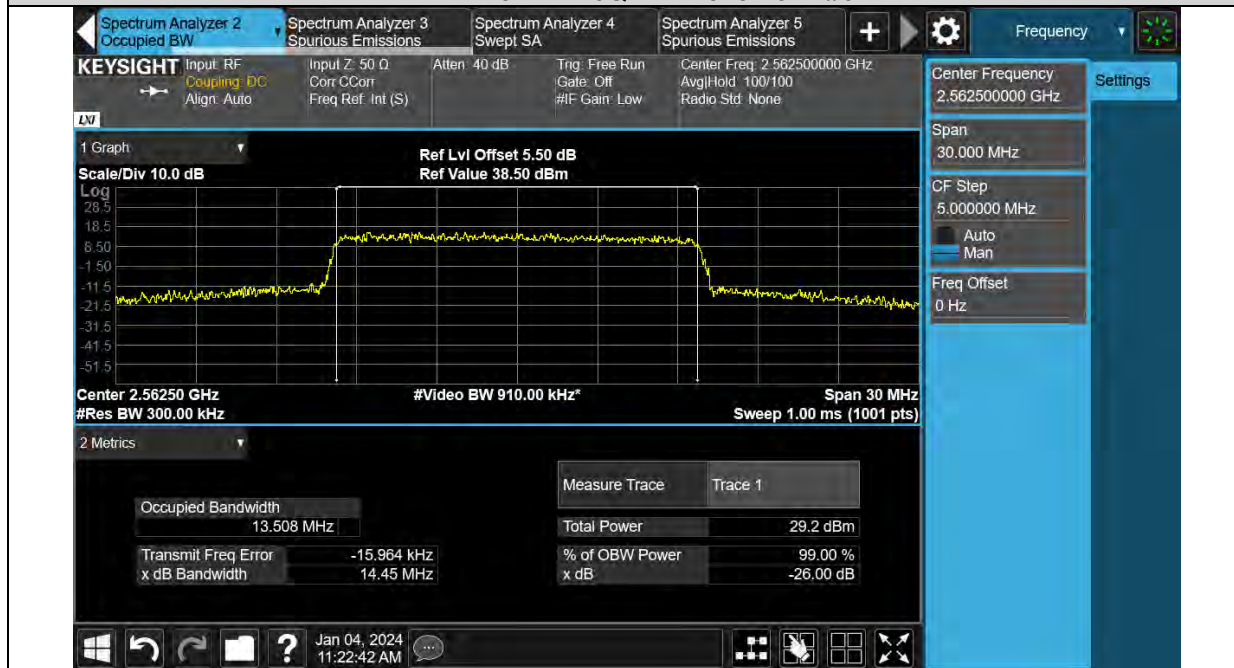
Band7-15MHz-16QAM-20825-75RB#0



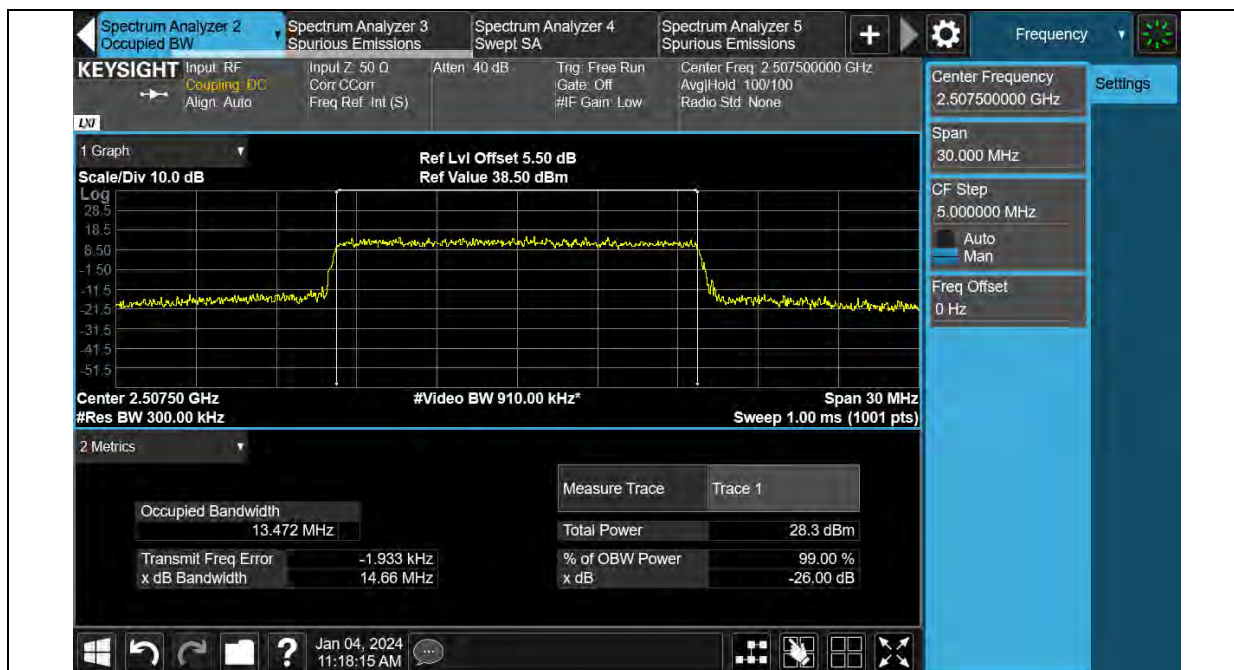
Band7-15MHz-16QAM-21100-75RB#0



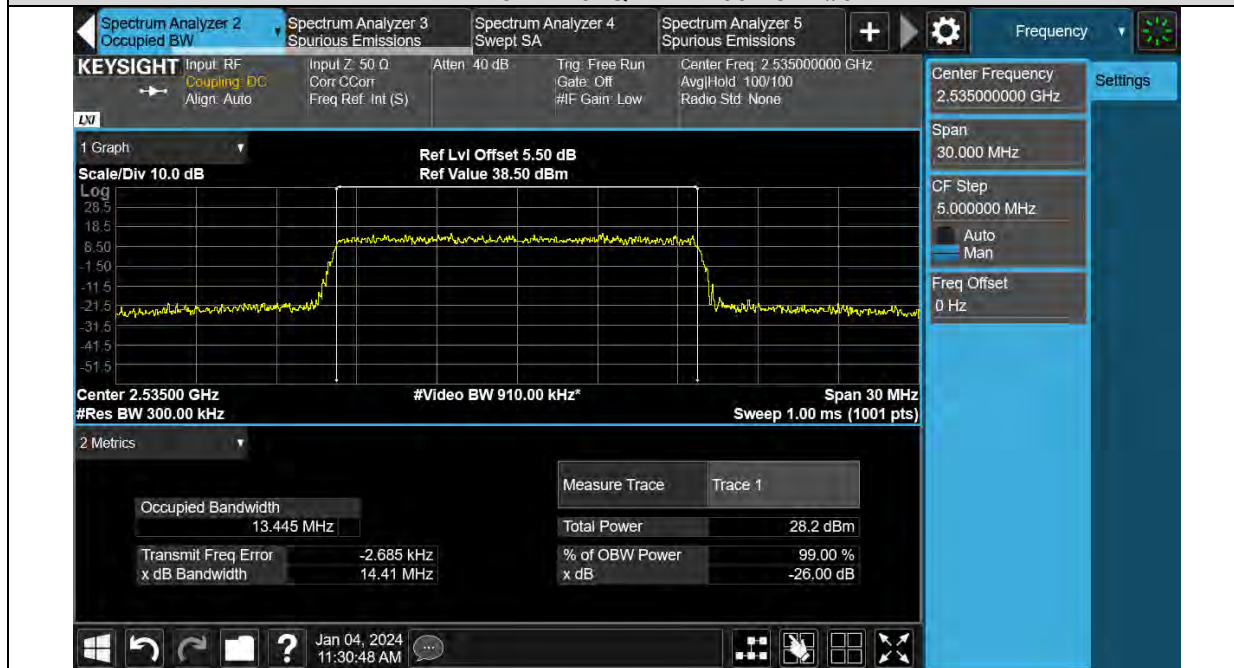
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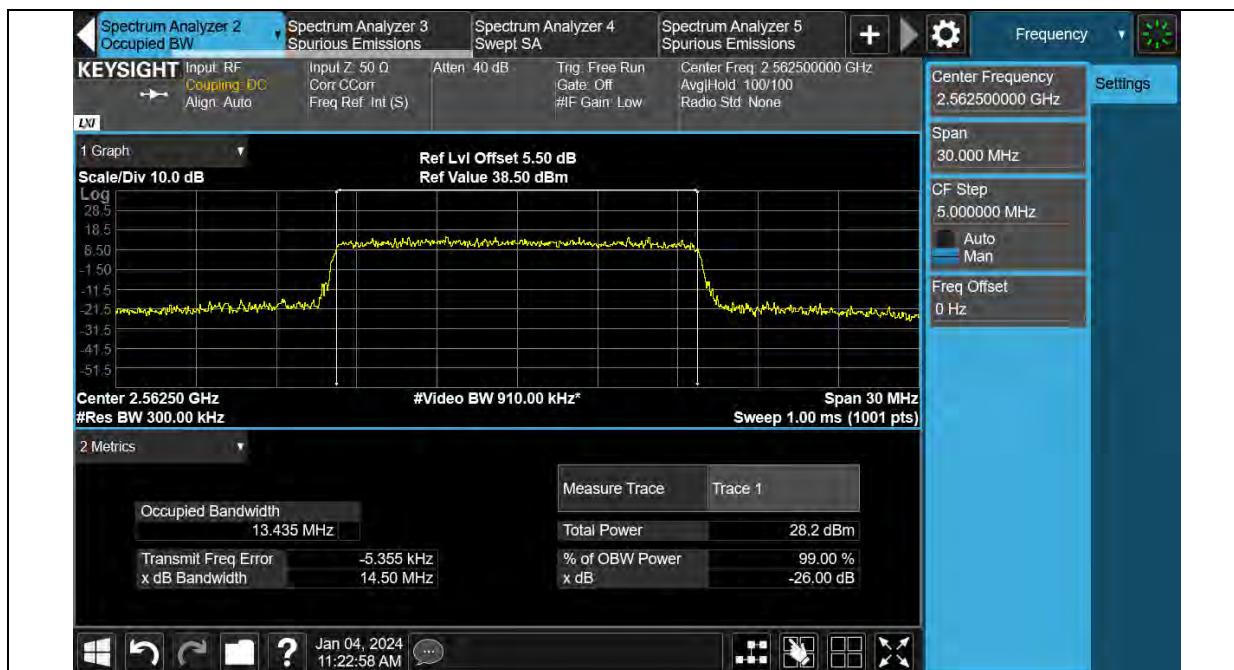
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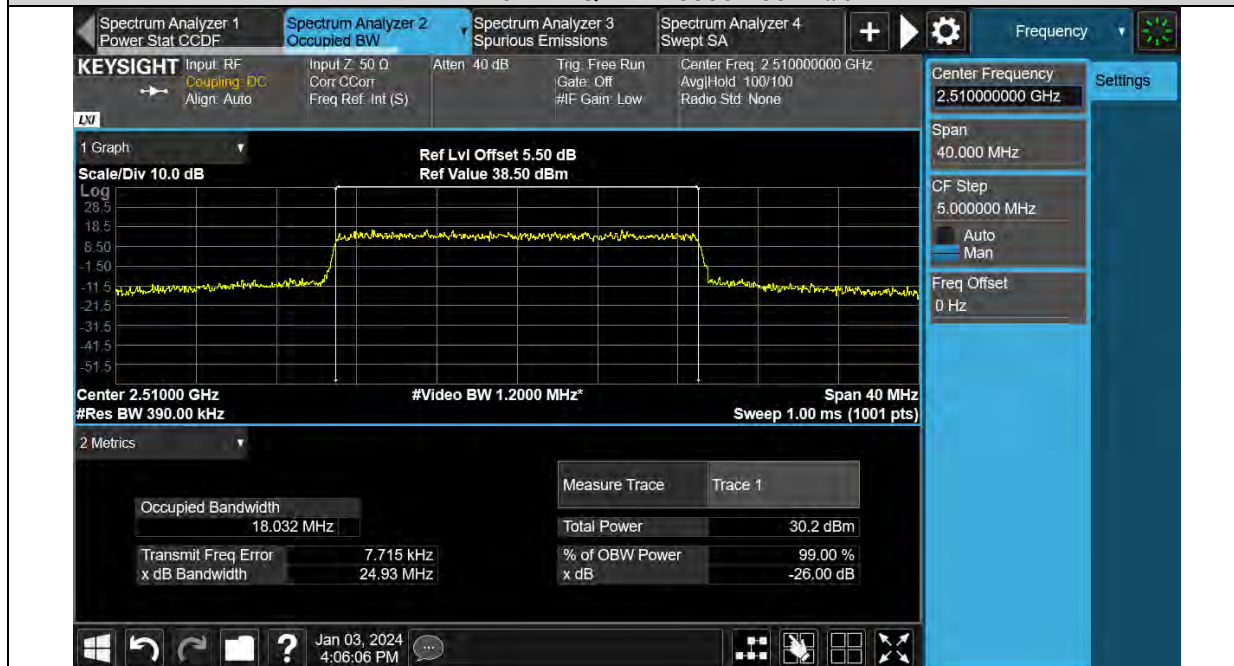
Band7-15MHz-64QAM-21100-75RB#0



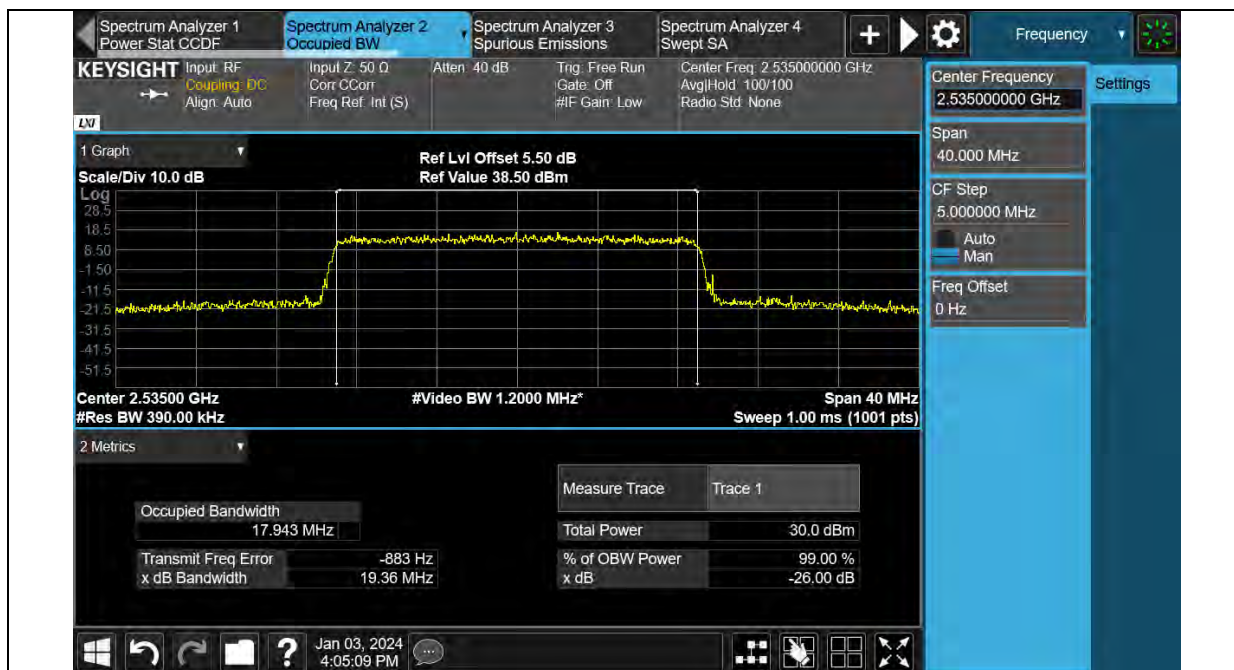
Band7-15MHz-64QAM-21375-75RB#0



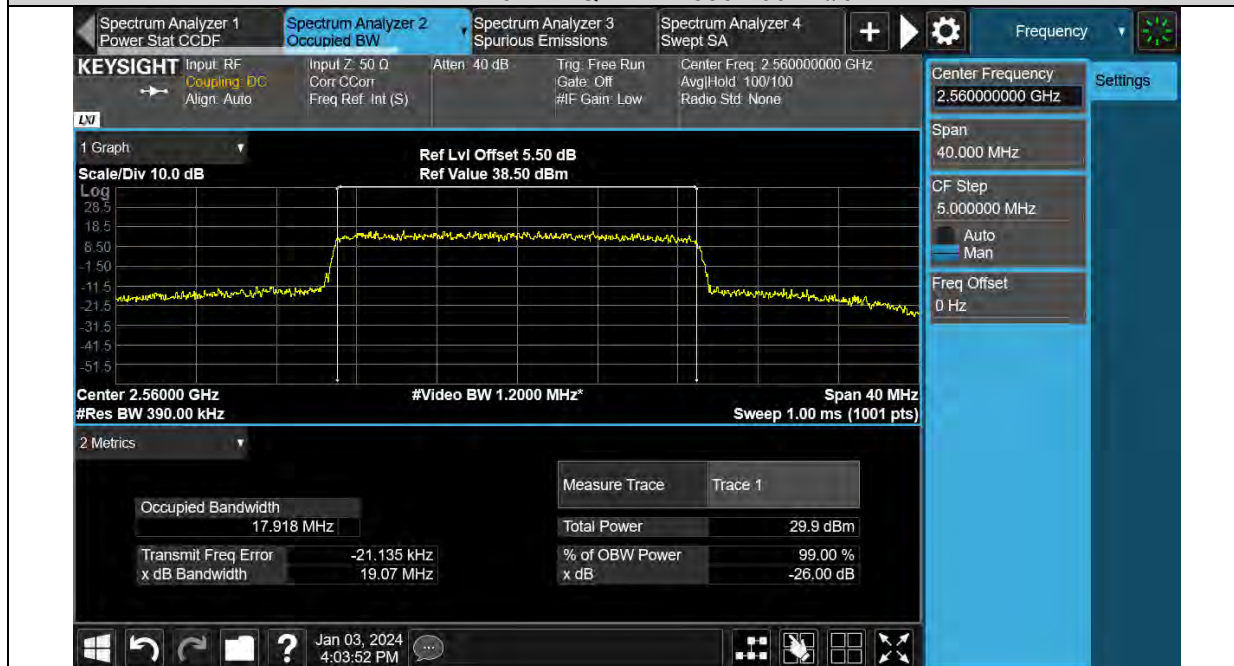
Band7-20MHz-QPSK-20850-100RB#0



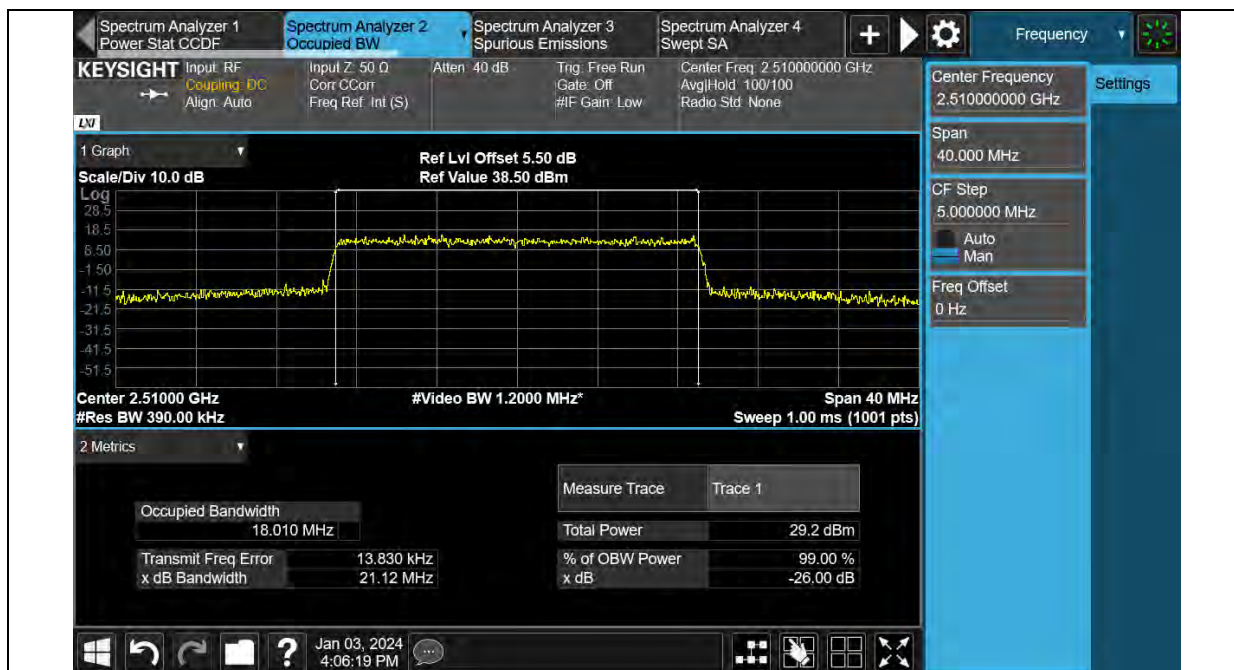
Band7-20MHz-QPSK-21100-100RB#0



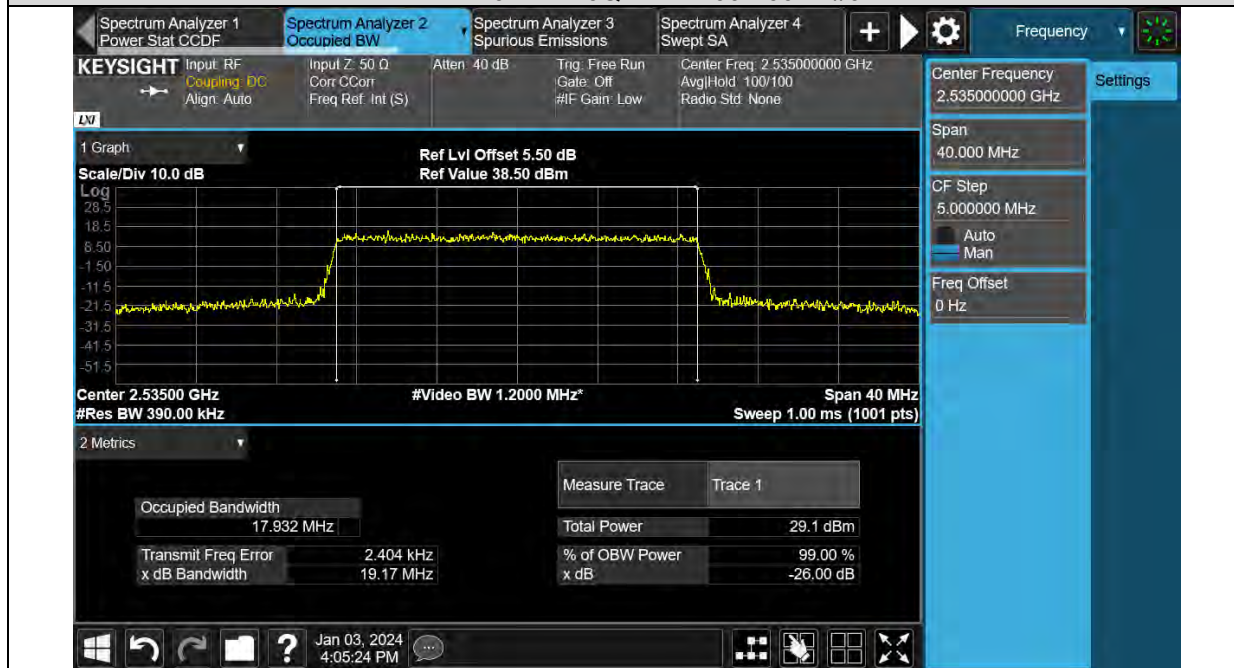
Band7-20MHz-QPSK-21350-100RB#0



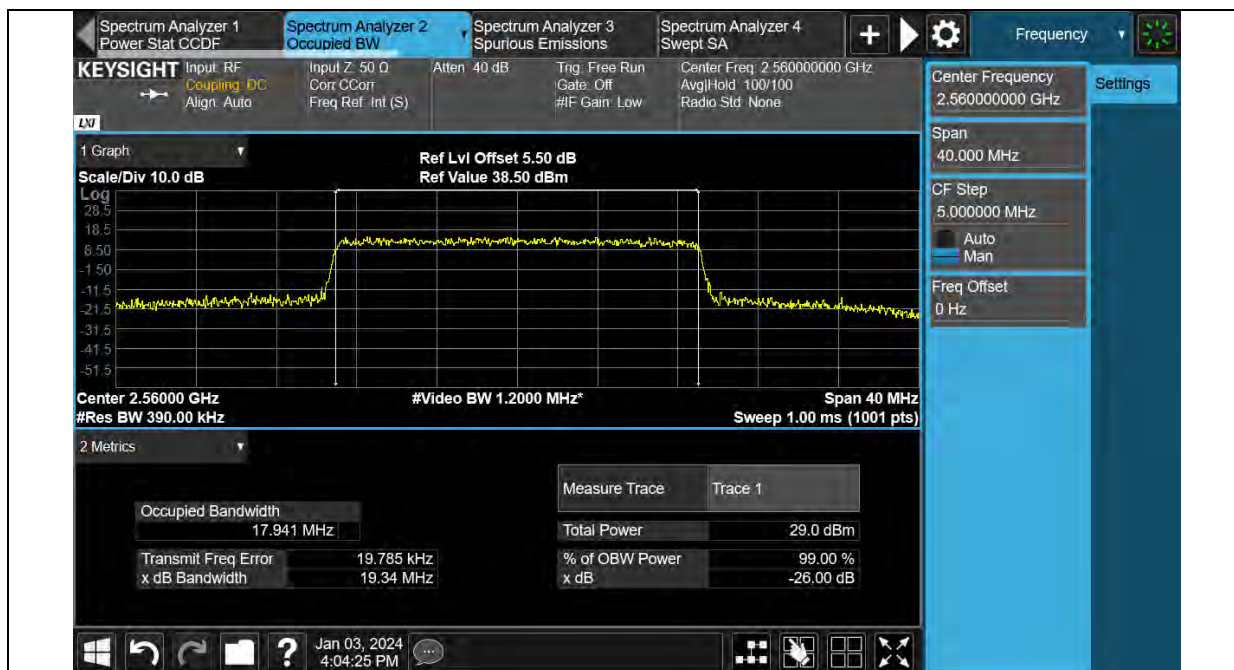
Band7-20MHz-16QAM-20850-100RB#0



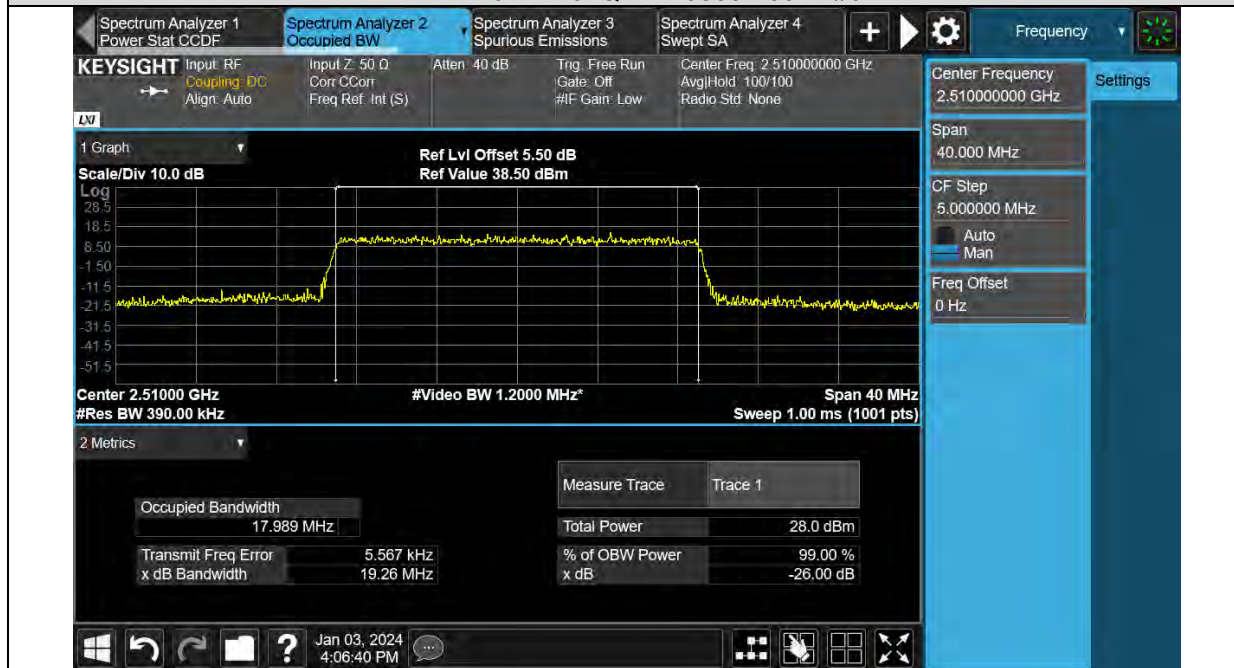
Band7-20MHz-16QAM-21100-100RB#0



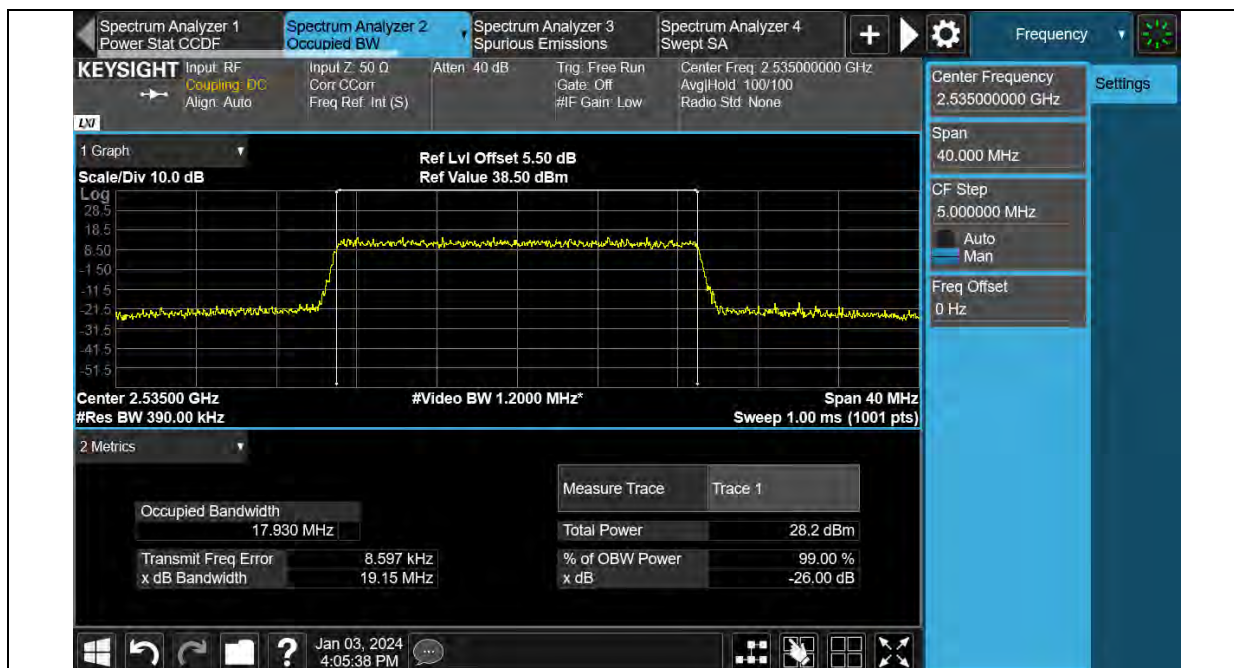
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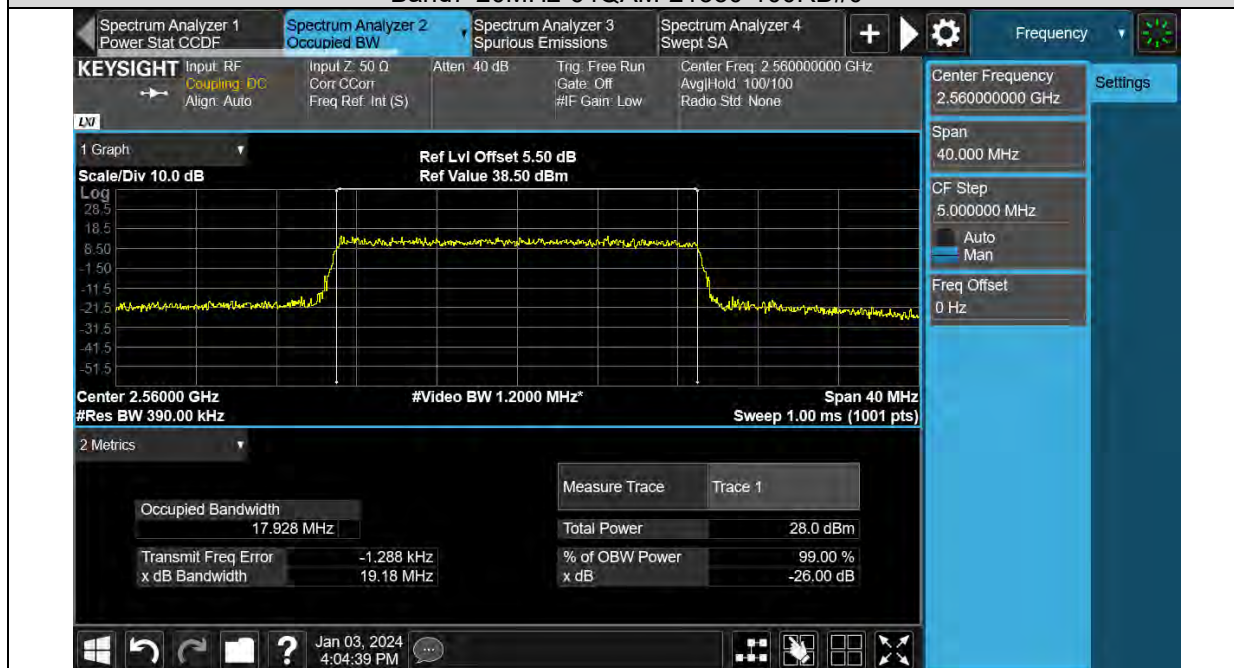
Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-64QAM-21350-100RB#0



BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	See Graph	PASS
Band7	5MHz	QPSK	20775	25RB#0	See Graph	PASS
Band7	5MHz	QPSK	21425	1RB#24	See Graph	PASS
Band7	5MHz	QPSK	21425	25RB#0	See Graph	PASS
Band7	5MHz	16QAM	20775	1RB#0	See Graph	PASS
Band7	5MHz	16QAM	20775	25RB#0	See Graph	PASS
Band7	5MHz	16QAM	21425	1RB#24	See Graph	PASS
Band7	5MHz	16QAM	21425	25RB#0	See Graph	PASS
Band7	5MHz	64QAM	20775	1RB#0	See Graph	PASS
Band7	5MHz	64QAM	20775	25RB#0	See Graph	PASS
Band7	5MHz	64QAM	21425	1RB#24	See Graph	PASS
Band7	5MHz	64QAM	21425	25RB#0	See Graph	PASS
Band7	10MHz	QPSK	20800	1RB#0	See Graph	PASS
Band7	10MHz	QPSK	20800	50RB#0	See Graph	PASS
Band7	10MHz	QPSK	21400	1RB#49	See Graph	PASS
Band7	10MHz	QPSK	21400	50RB#0	See Graph	PASS
Band7	10MHz	16QAM	20800	1RB#0	See Graph	PASS
Band7	10MHz	16QAM	20800	50RB#0	See Graph	PASS
Band7	10MHz	16QAM	21400	1RB#49	See Graph	PASS
Band7	10MHz	16QAM	21400	50RB#0	See Graph	PASS
Band7	10MHz	64QAM	20800	1RB#0	See Graph	PASS
Band7	10MHz	64QAM	20800	50RB#0	See Graph	PASS
Band7	10MHz	64QAM	21400	1RB#49	See Graph	PASS
Band7	10MHz	64QAM	21400	50RB#0	See Graph	PASS
Band7	15MHz	QPSK	20825	1RB#0	See Graph	PASS
Band7	15MHz	QPSK	20825	75RB#0	See Graph	PASS
Band7	15MHz	QPSK	21375	1RB#74	See Graph	PASS
Band7	15MHz	QPSK	21375	75RB#0	See Graph	PASS
Band7	15MHz	16QAM	20825	1RB#0	See Graph	PASS
Band7	15MHz	16QAM	20825	75RB#0	See Graph	PASS
Band7	15MHz	16QAM	21375	1RB#74	See Graph	PASS
Band7	15MHz	16QAM	21375	75RB#0	See Graph	PASS
Band7	15MHz	64QAM	20825	1RB#0	See Graph	PASS
Band7	15MHz	64QAM	20825	75RB#0	See Graph	PASS
Band7	15MHz	64QAM	21375	1RB#74	See Graph	PASS
Band7	15MHz	64QAM	21375	75RB#0	See Graph	PASS
Band7	20MHz	QPSK	20850	1RB#0	See Graph	PASS
Band7	20MHz	QPSK	20850	100RB#0	See Graph	PASS
Band7	20MHz	QPSK	21350	1RB#99	See Graph	PASS
Band7	20MHz	QPSK	21350	100RB#0	See Graph	PASS
Band7	20MHz	16QAM	20850	1RB#0	See Graph	PASS
Band7	20MHz	16QAM	20850	100RB#0	See Graph	PASS
Band7	20MHz	16QAM	21350	1RB#99	See Graph	PASS
Band7	20MHz	16QAM	21350	100RB#0	See Graph	PASS
Band7	20MHz	64QAM	20850	1RB#0	See Graph	PASS



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Band7	20MHz	64QAM	20850	100RB#0	See Graph	PASS
Band7	20MHz	64QAM	21350	1RB#99	See Graph	PASS
Band7	20MHz	64QAM	21350	100RB#0	See Graph	PASS

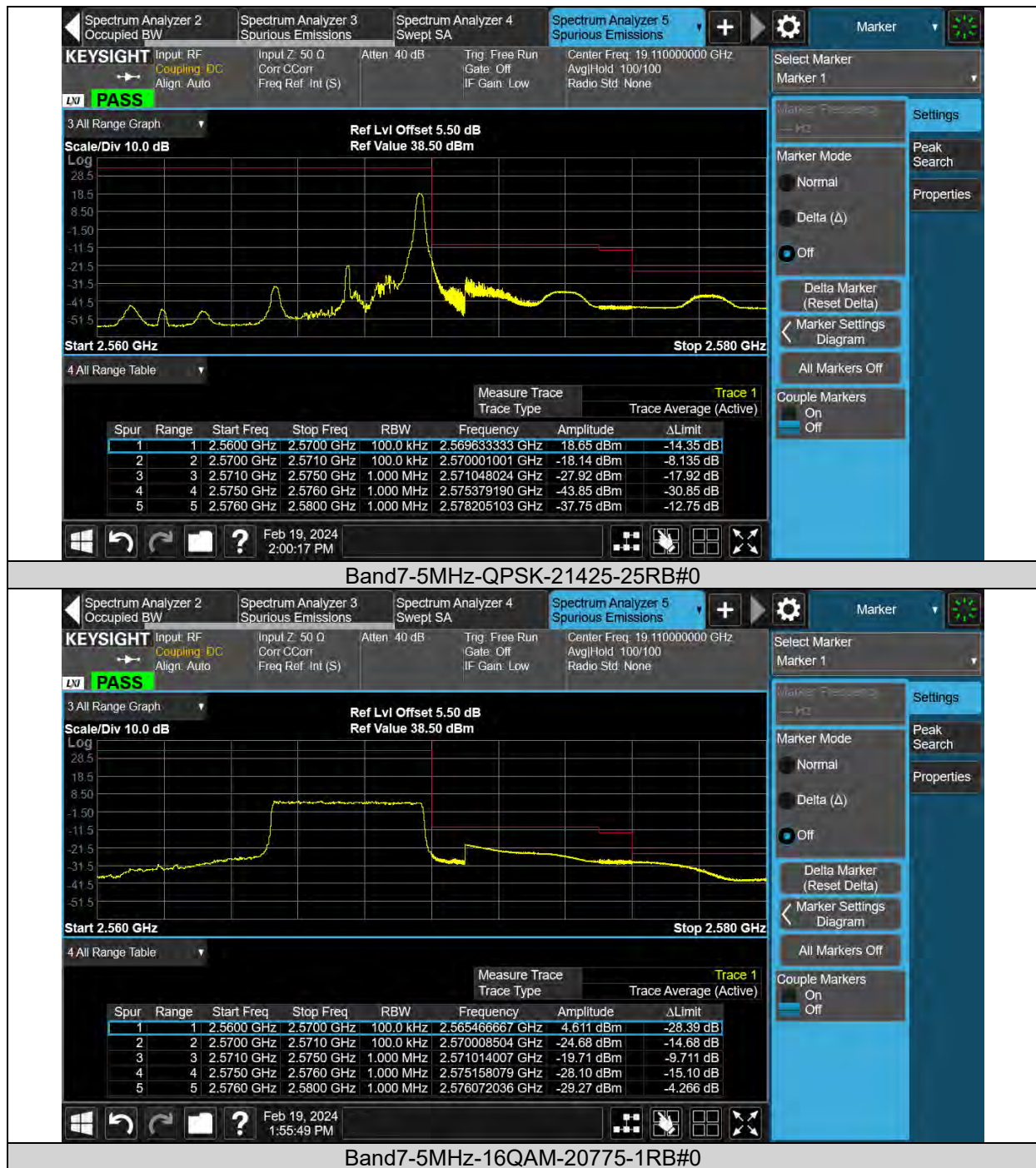
Test Graphs





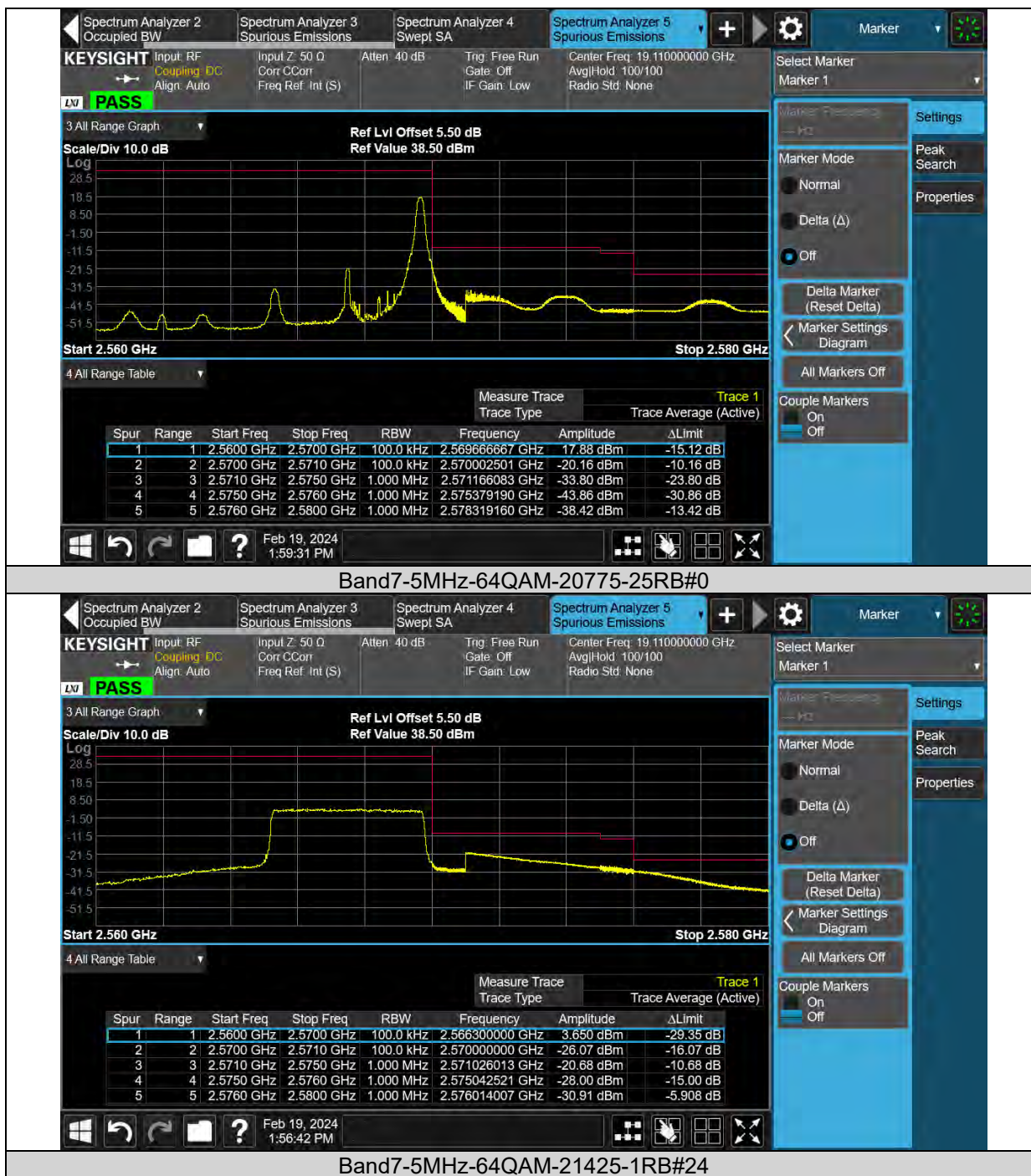
BUREAU
VERITAS

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VERITAS

Test Report No.: PSU-QSU2312200110RF03

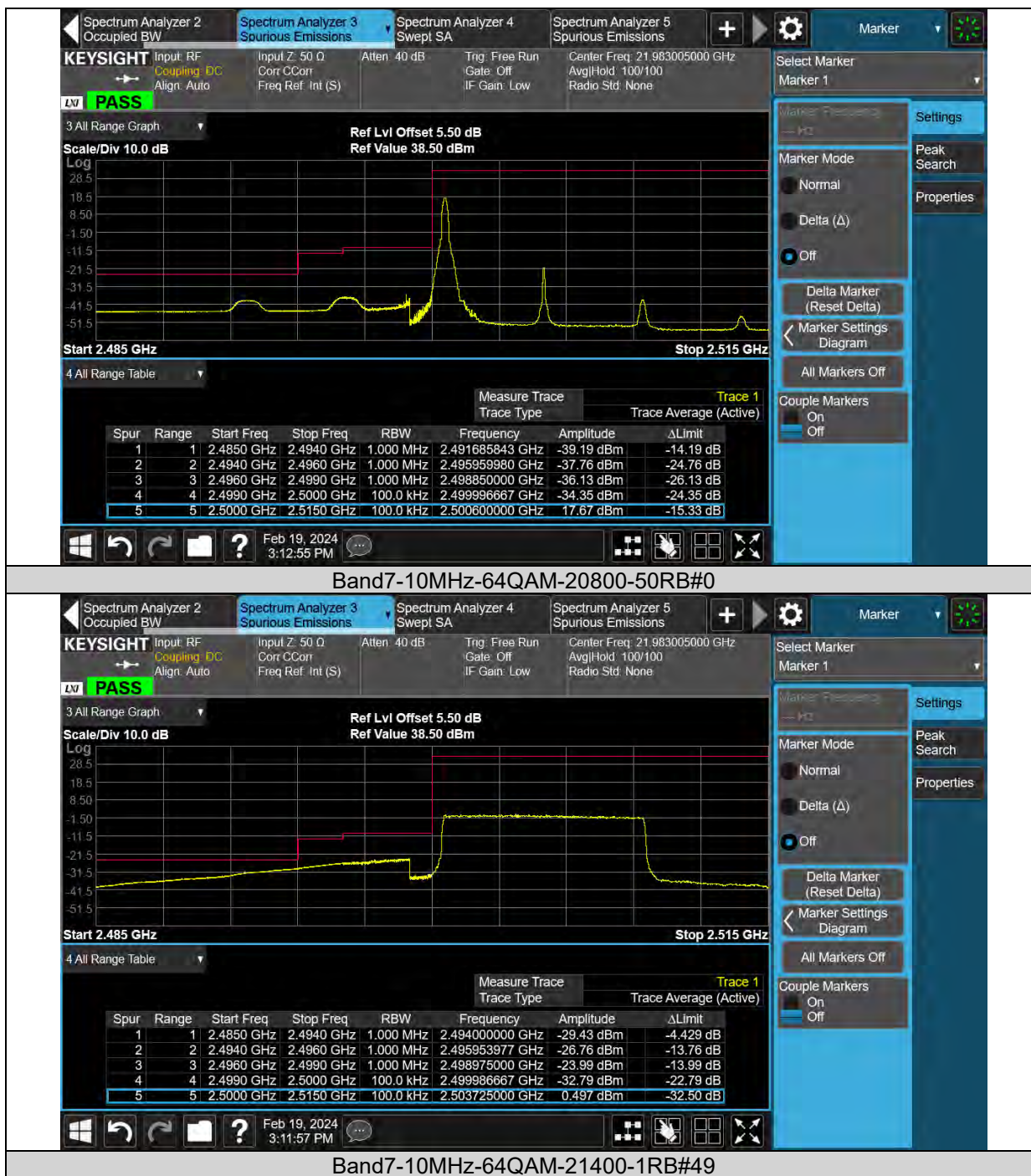




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VERITAS

Test Report No.: PSU-QSU2312200110RF03

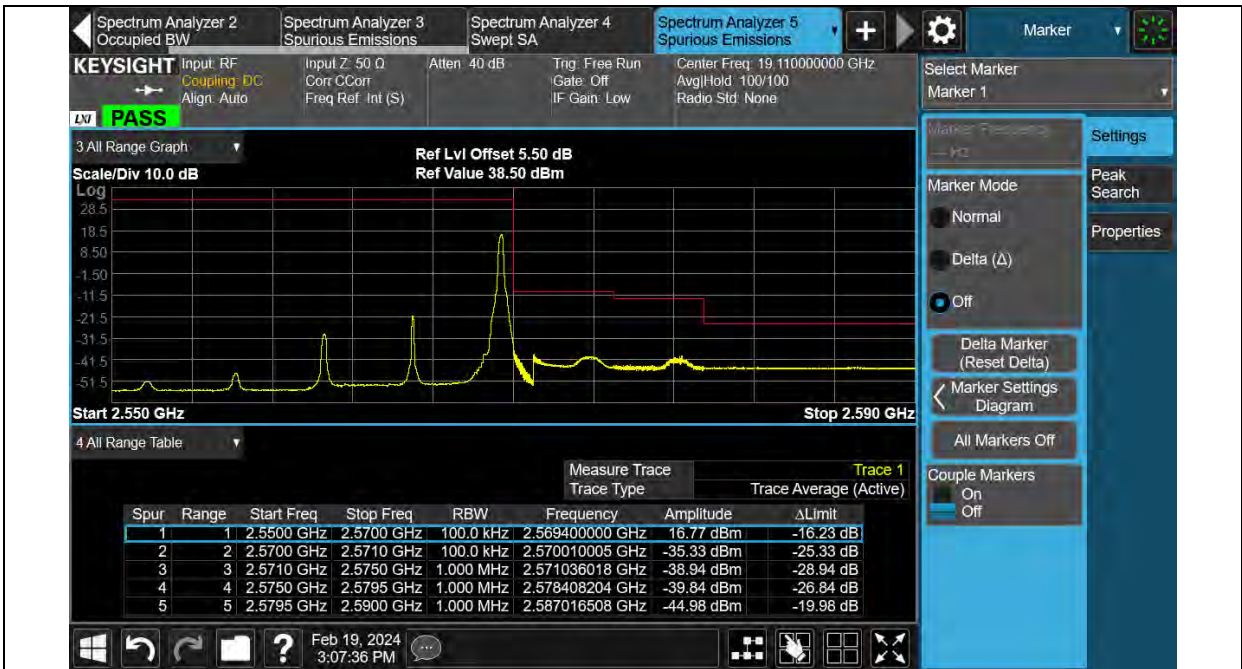






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VERITAS

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Band7-10MHz-64QAM-21400-50RB#0



Band7-15MHz-QPSK-20825-1RB#0



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