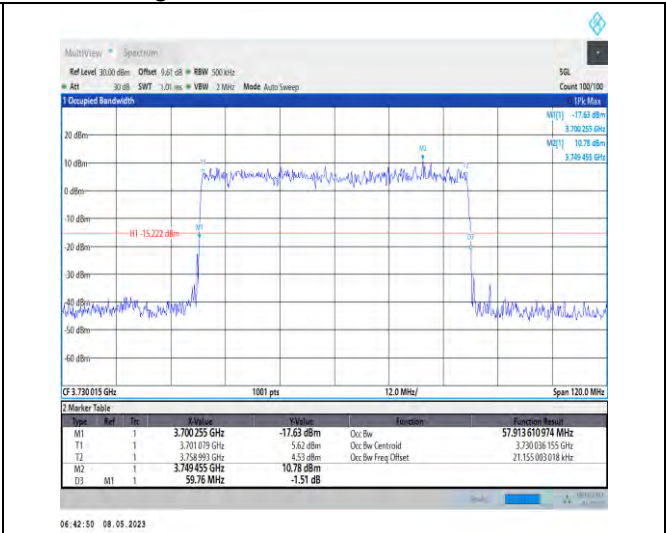
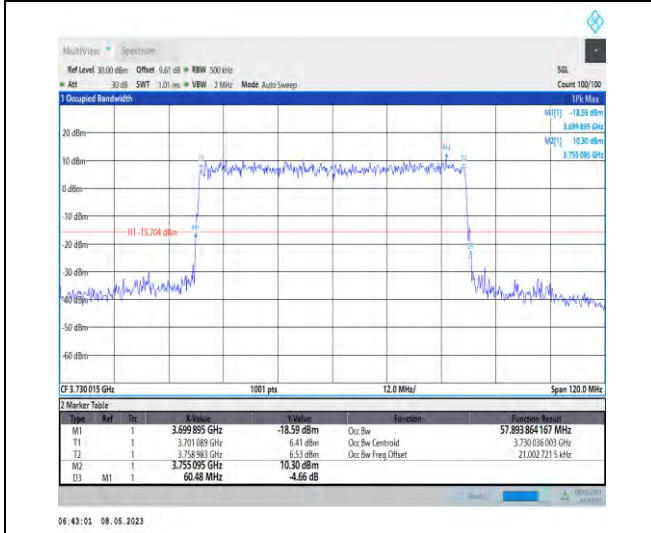


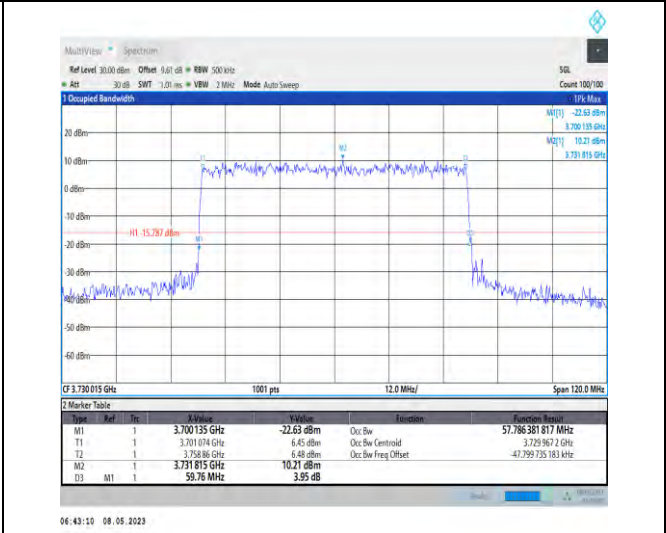
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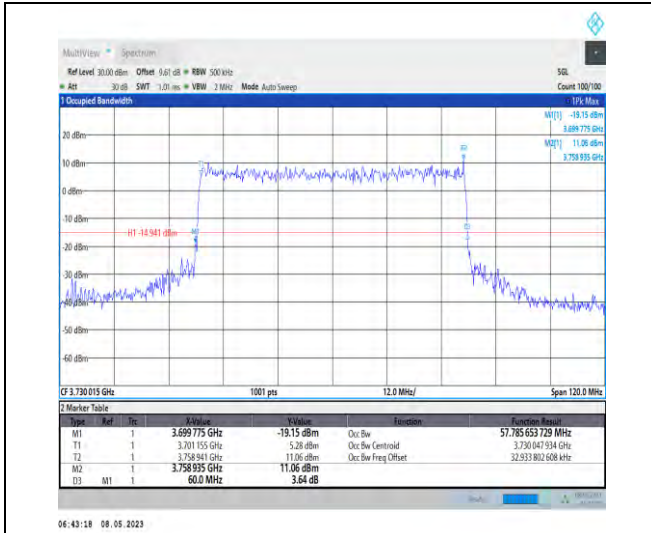


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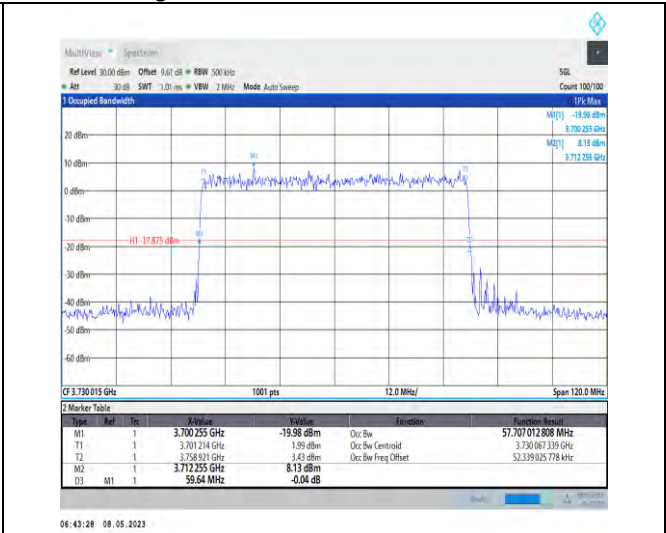


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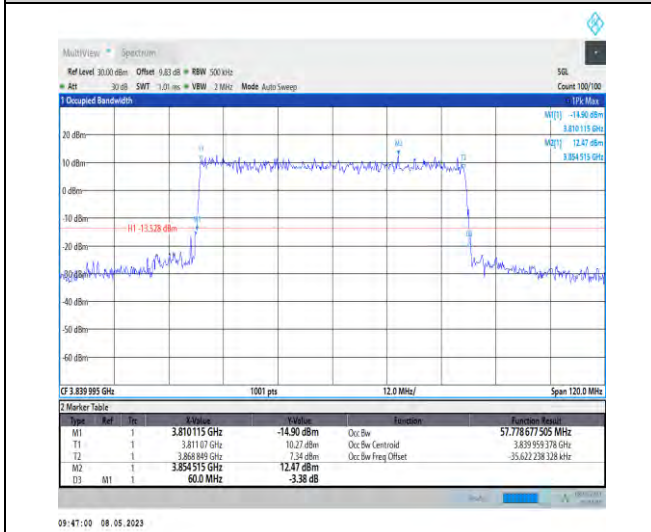
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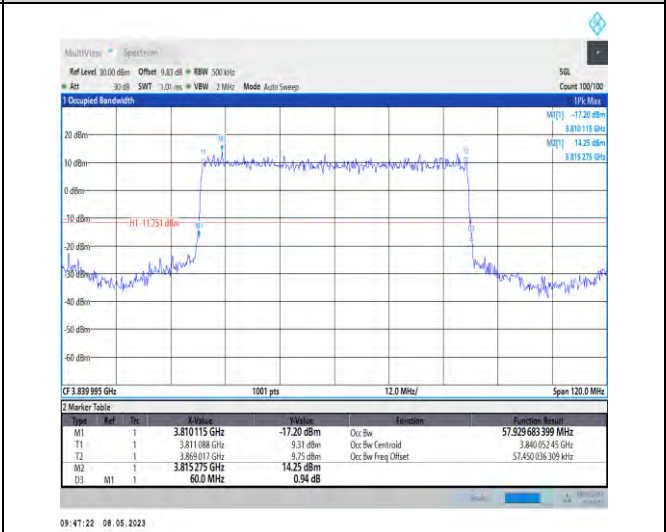
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\_Full-162@0-Ant1-57.707-59.640-≤60-PASS



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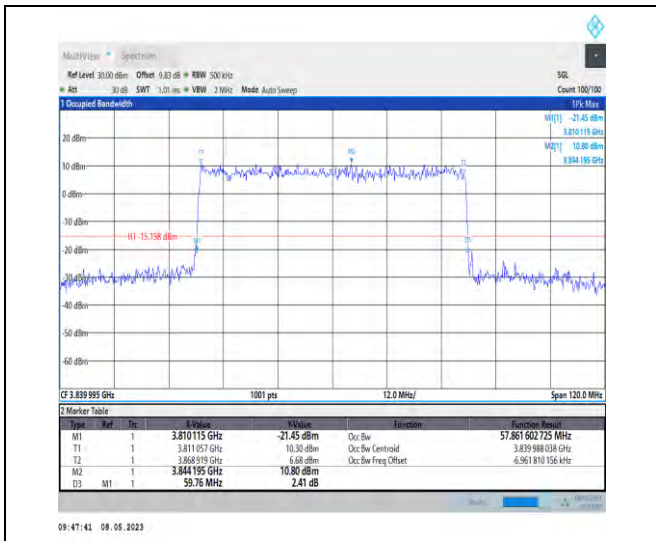
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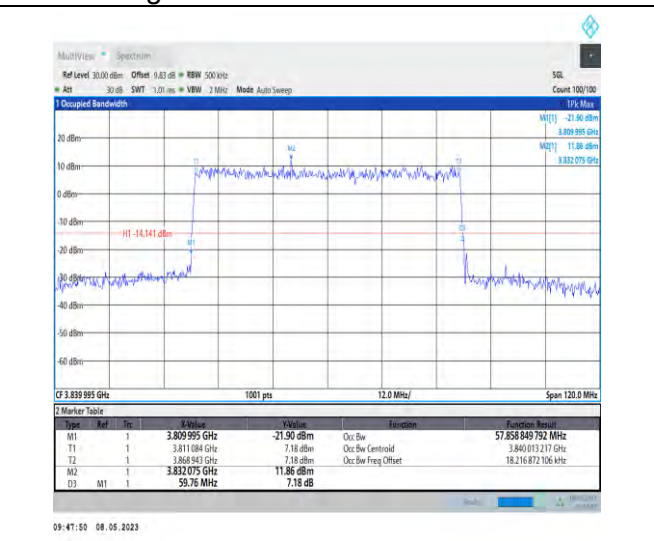
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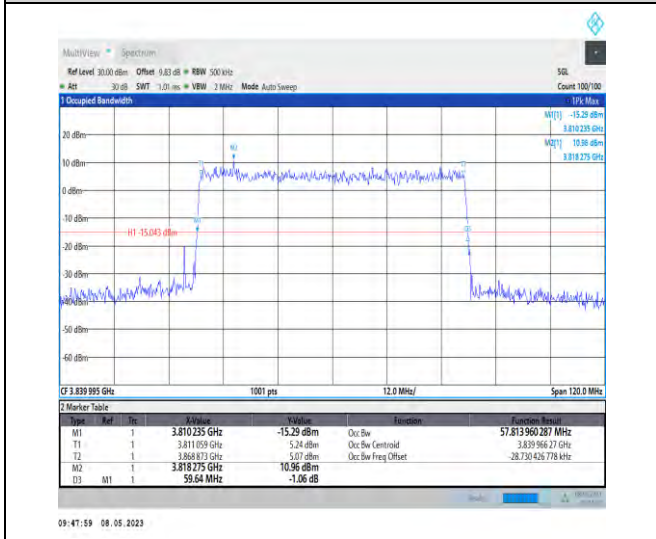




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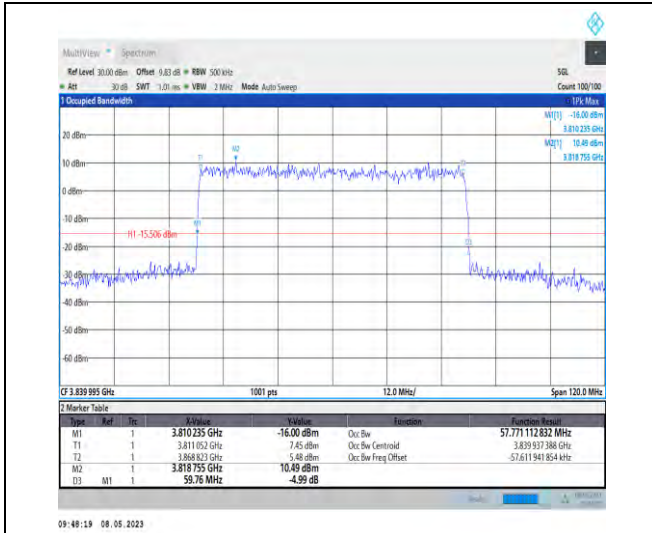


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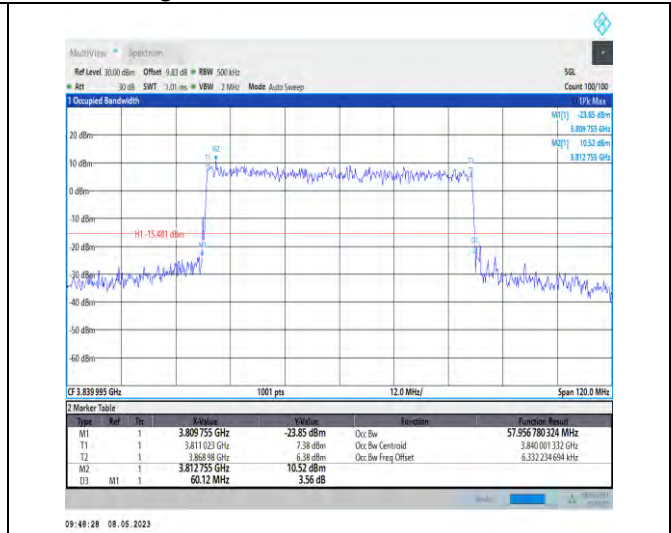


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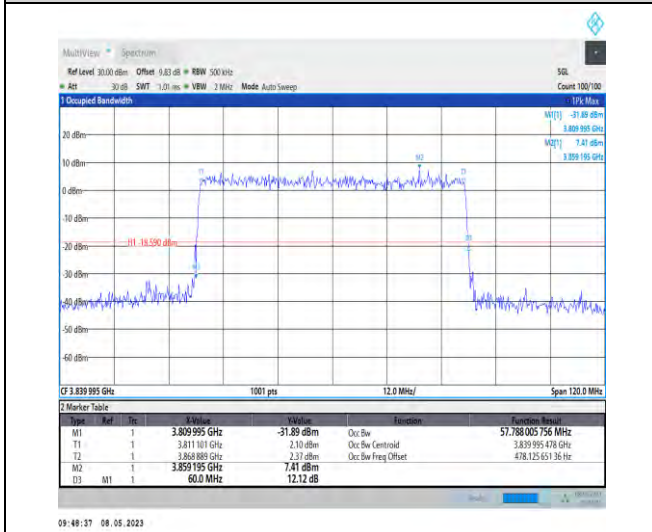
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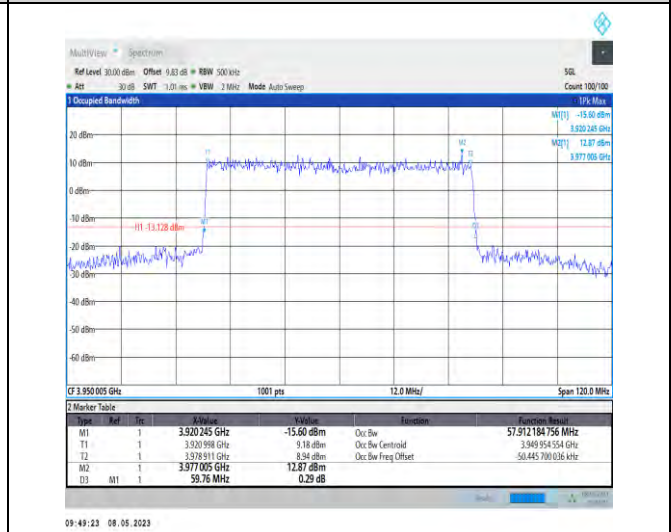
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1-N77-3700-3980-PC2-30-60-M-9-CP-256QAM-Outer\_Full-162@0-Ant1-57.788-60.000-≤60-PASS



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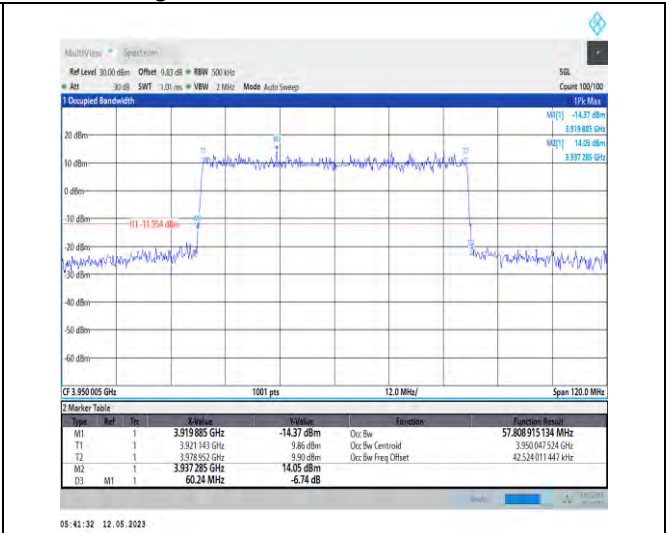
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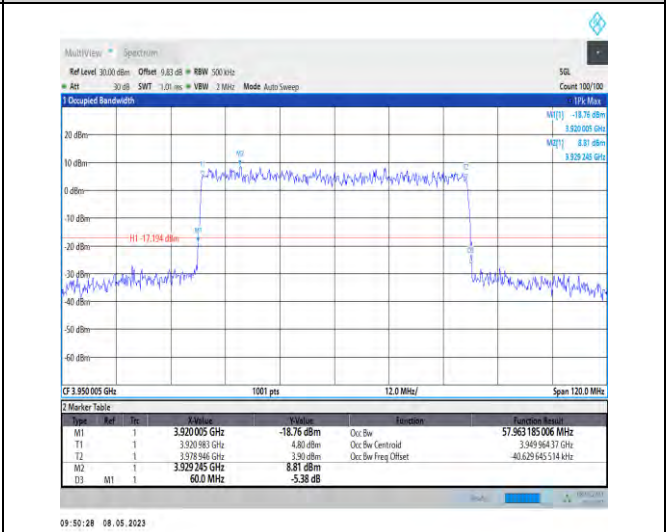
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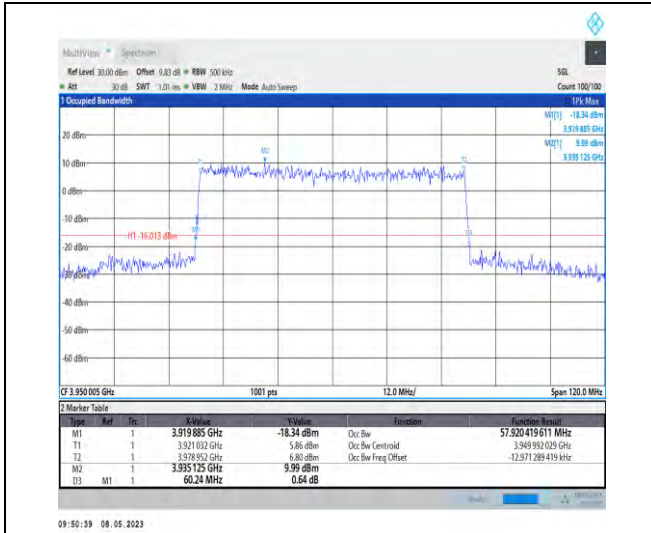


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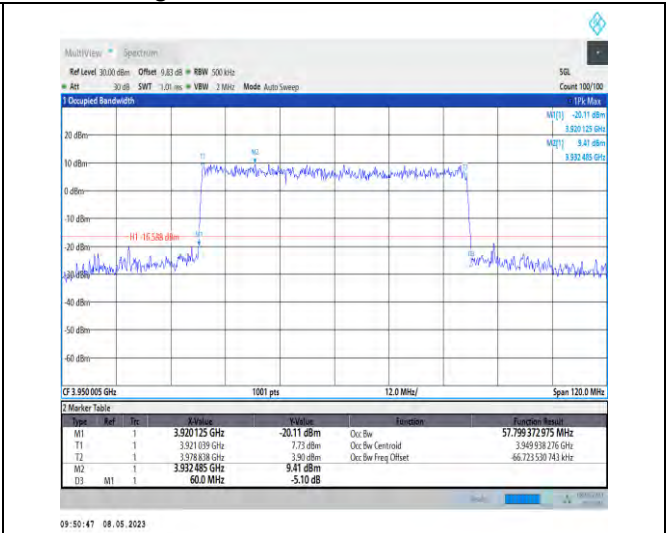


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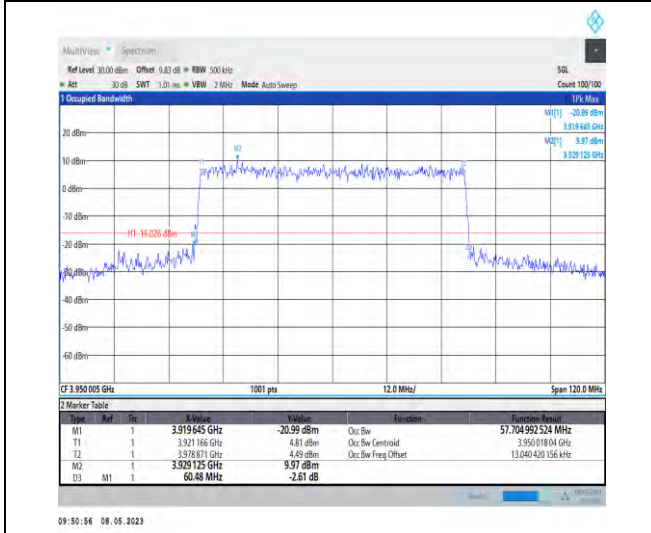
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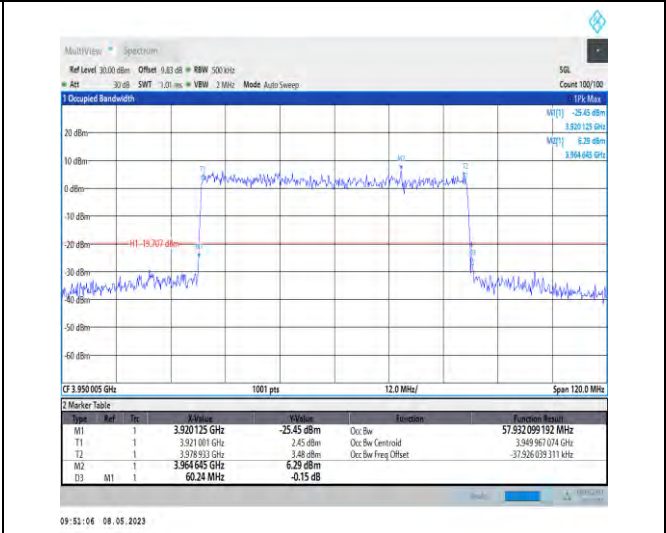
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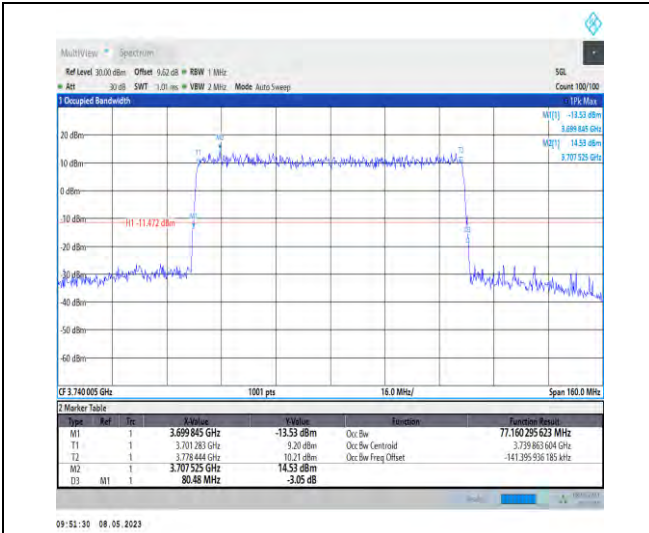
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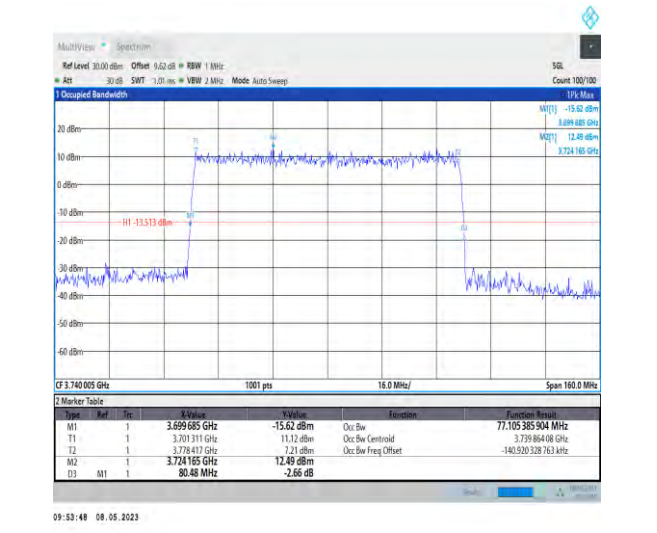
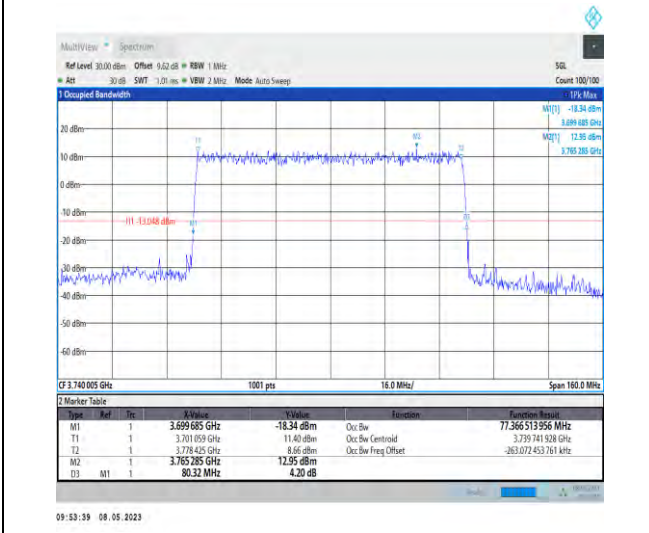
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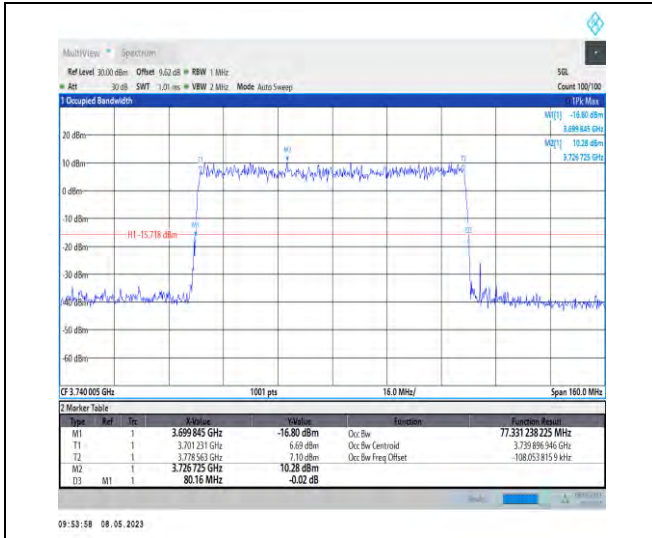
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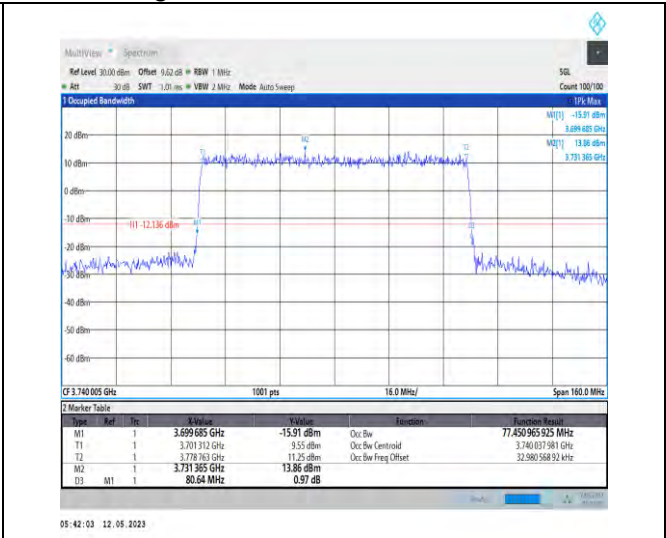


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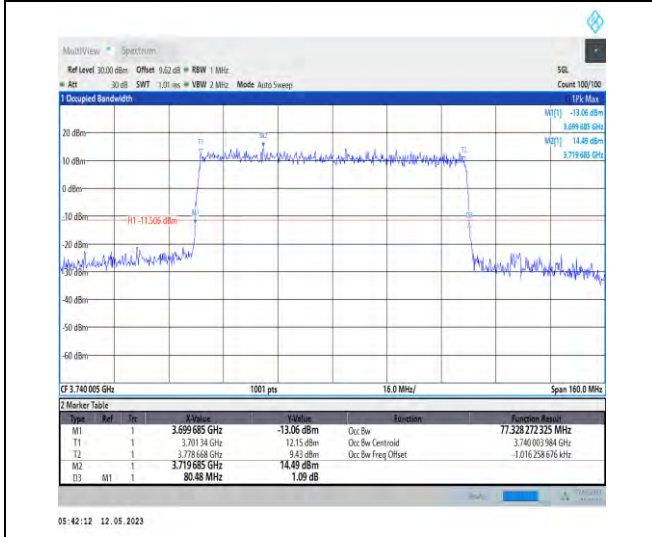
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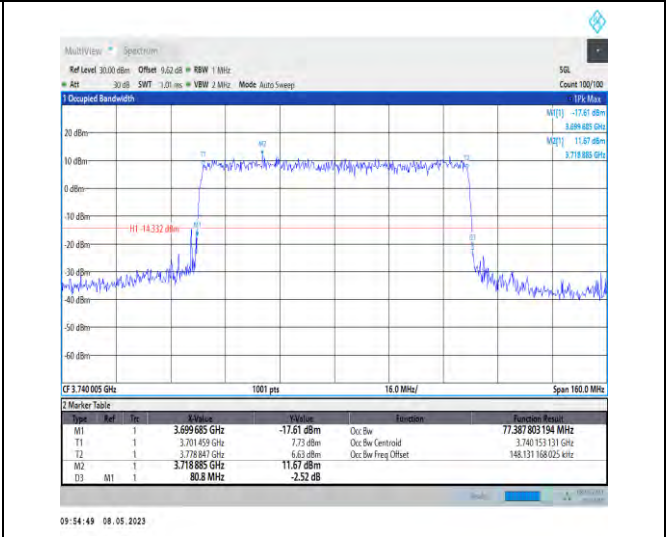
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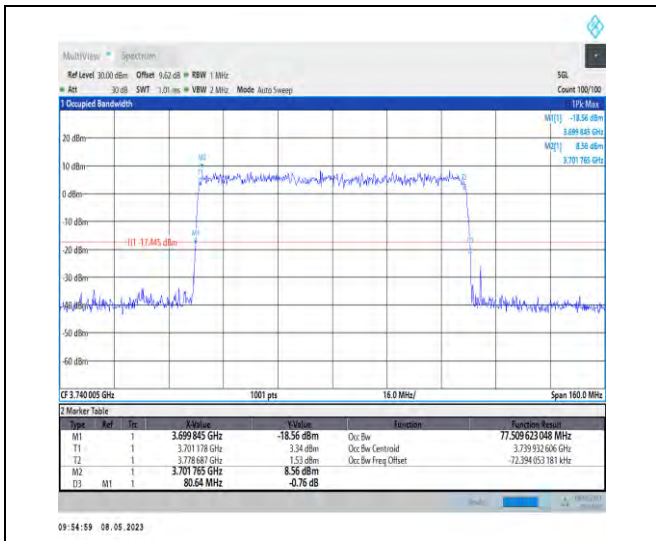
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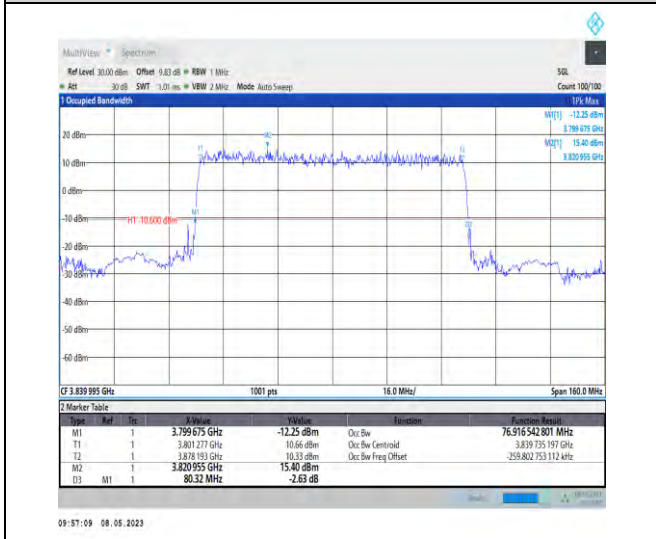




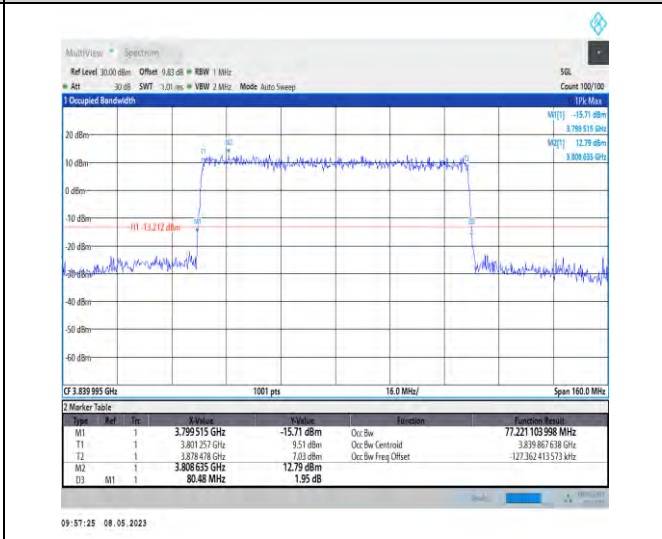
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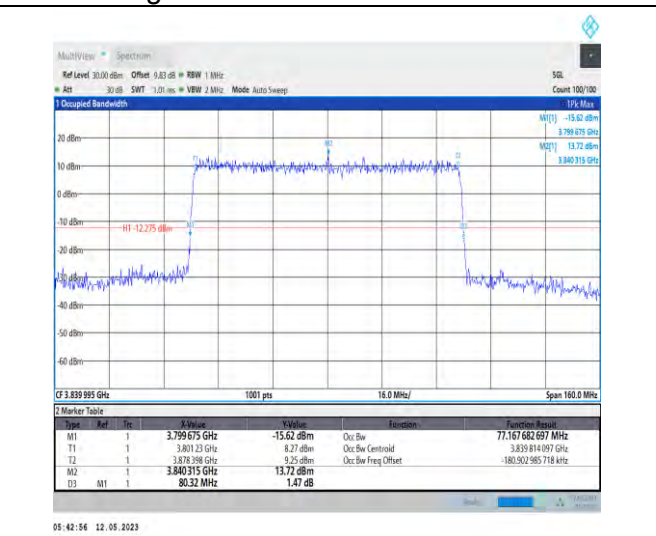
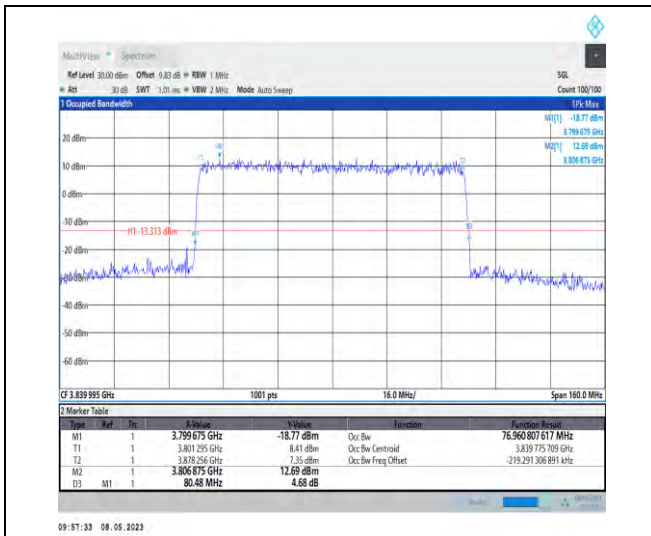
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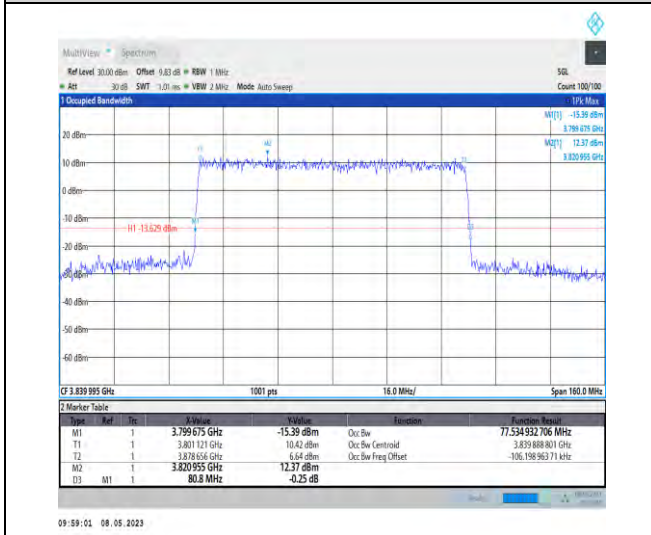
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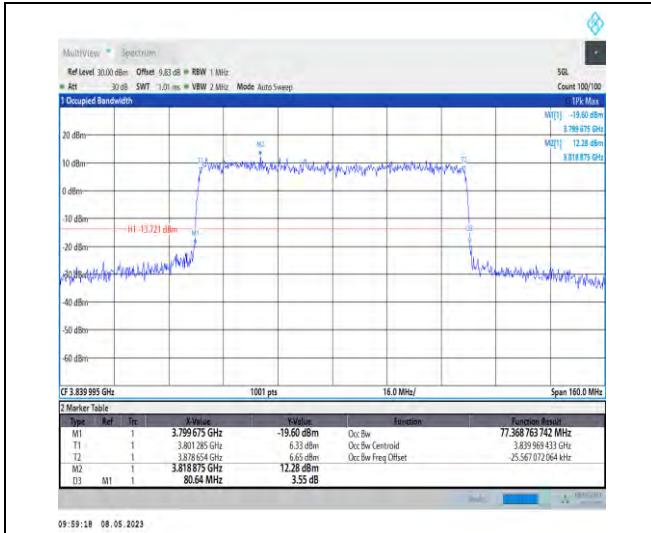
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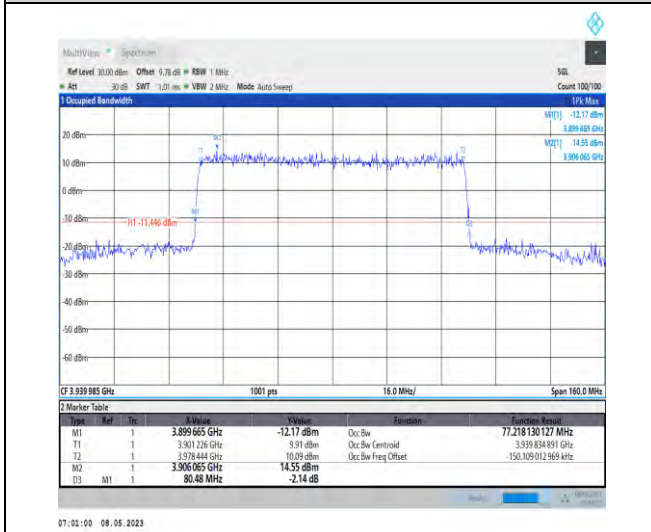




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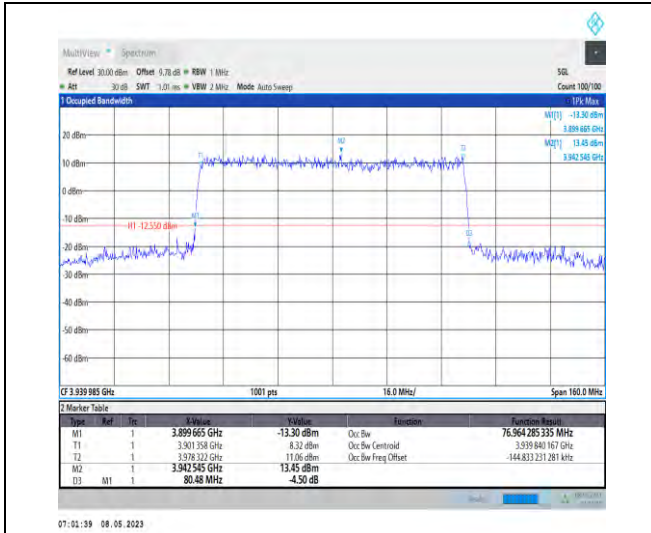


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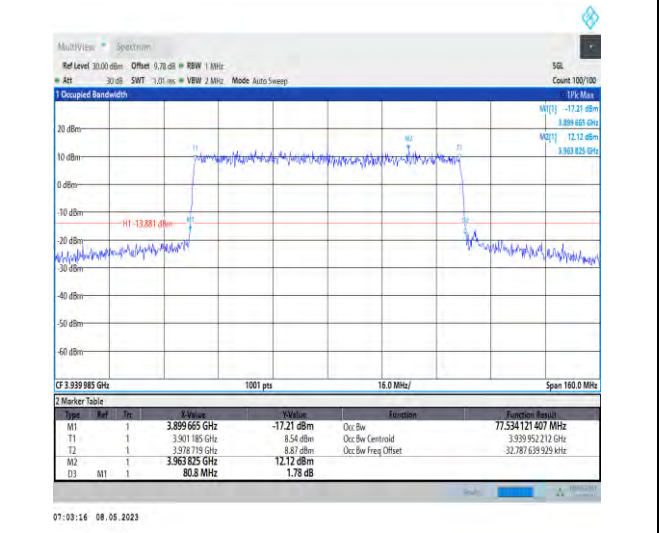
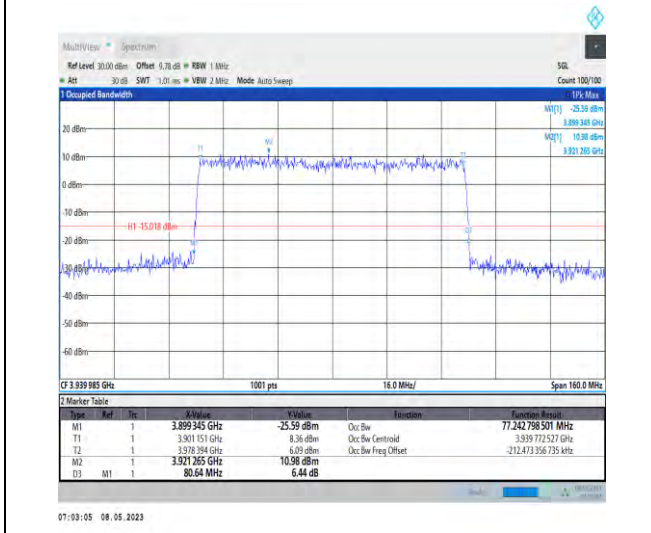
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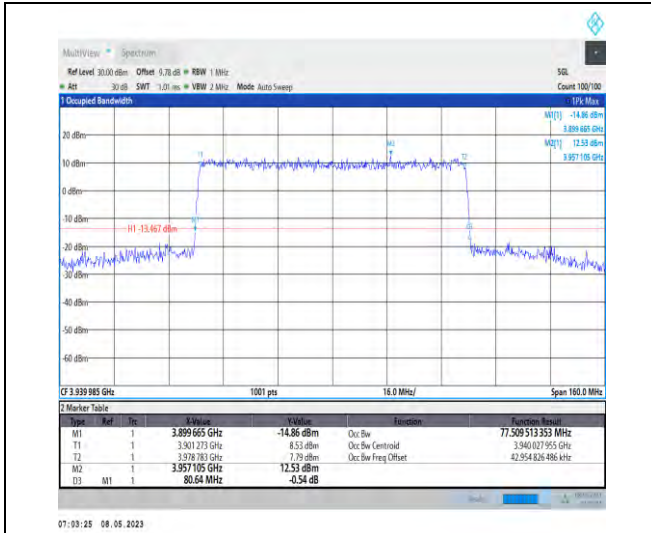
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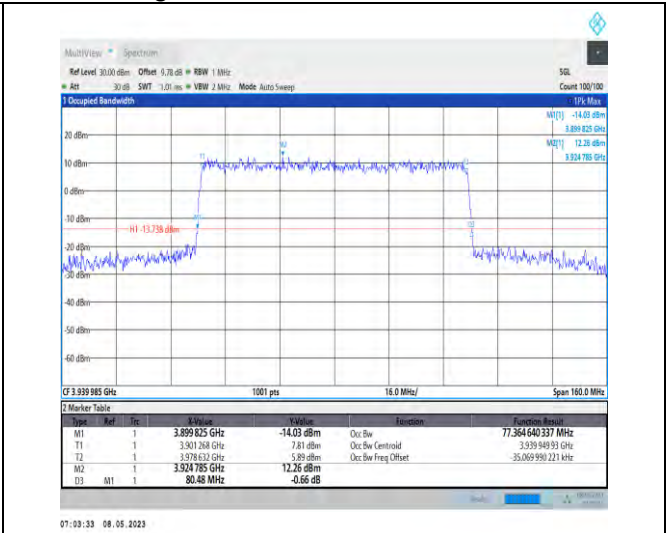
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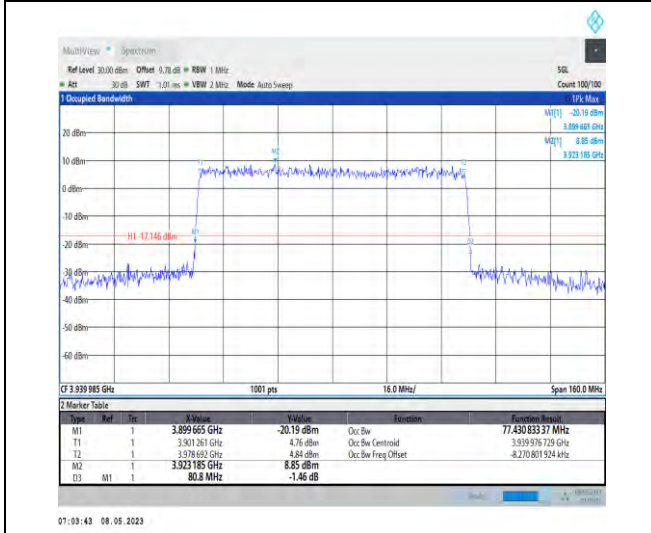




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1-N77-3700-3980-PC2-30-100-L-1-DFT-QPSK-Outer\_Full-270@0-Ant1-96.582-100.000-≤100-PASS



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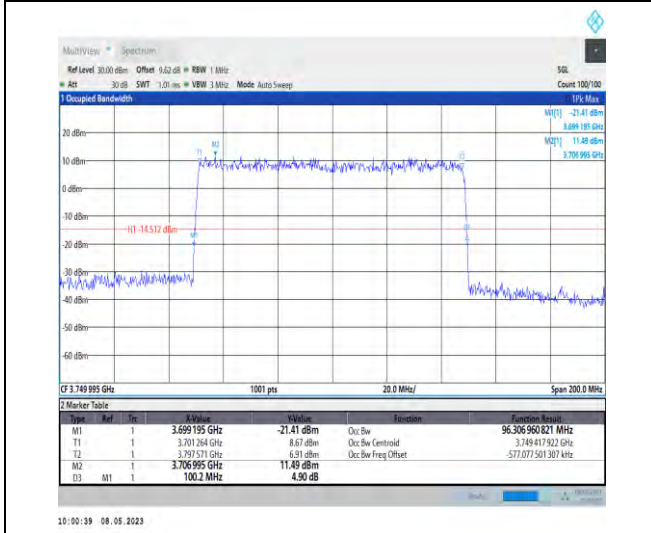
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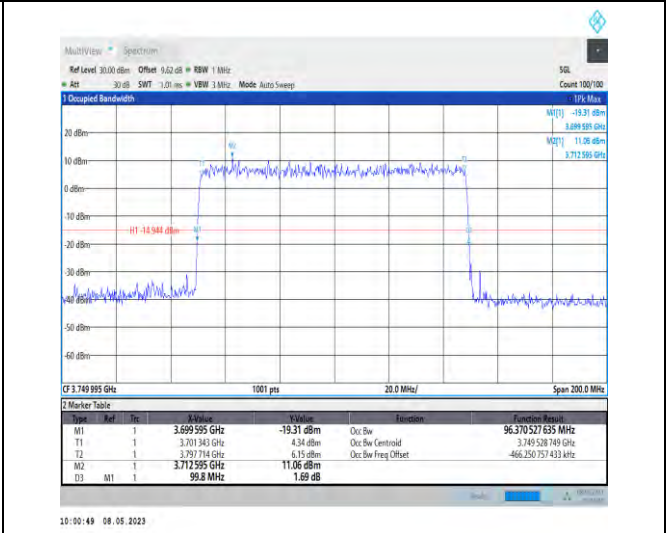
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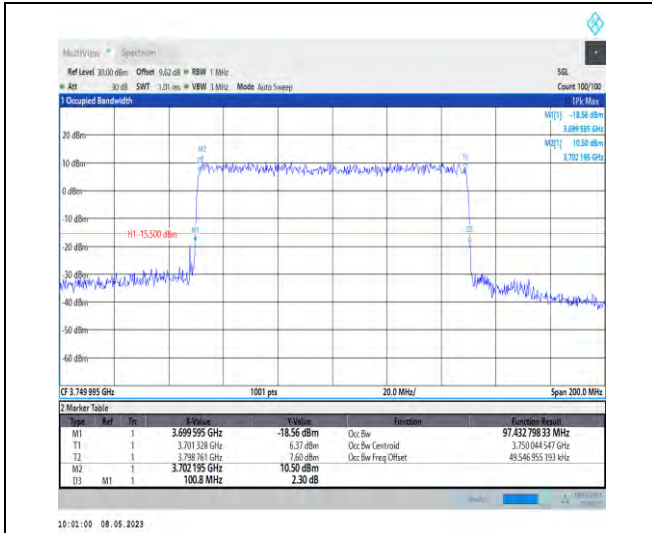
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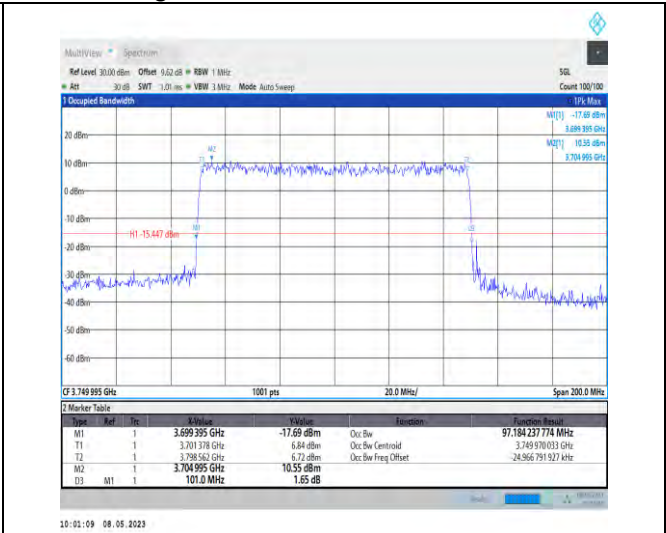
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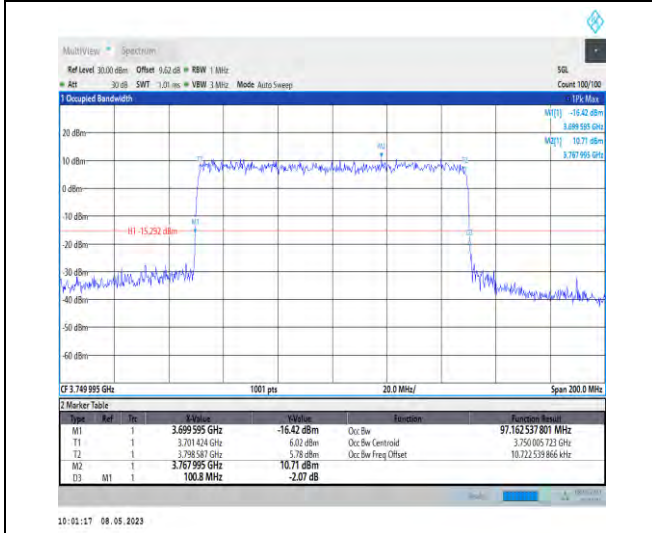




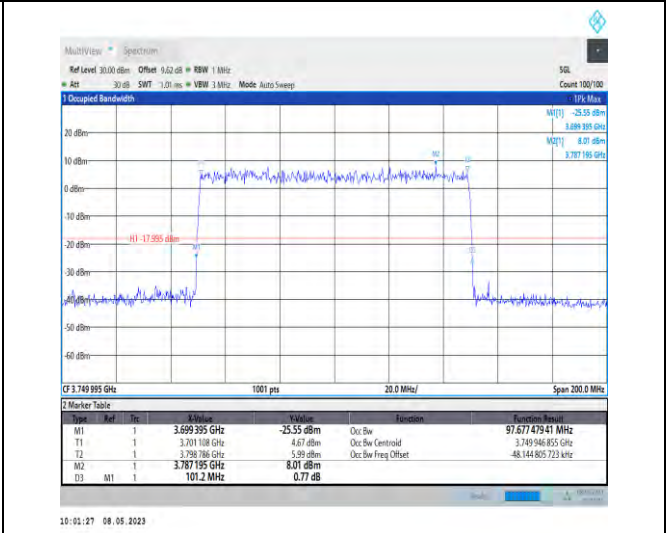
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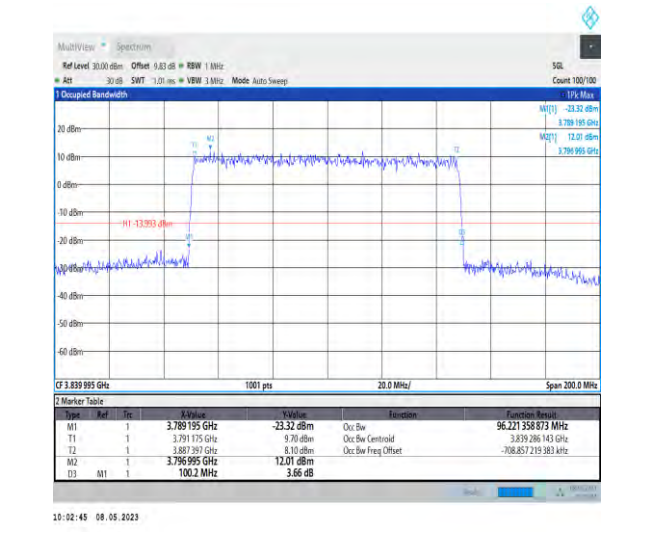
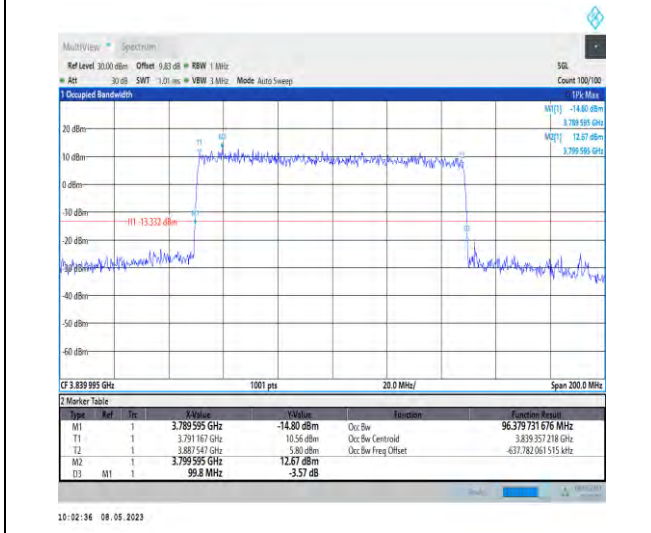
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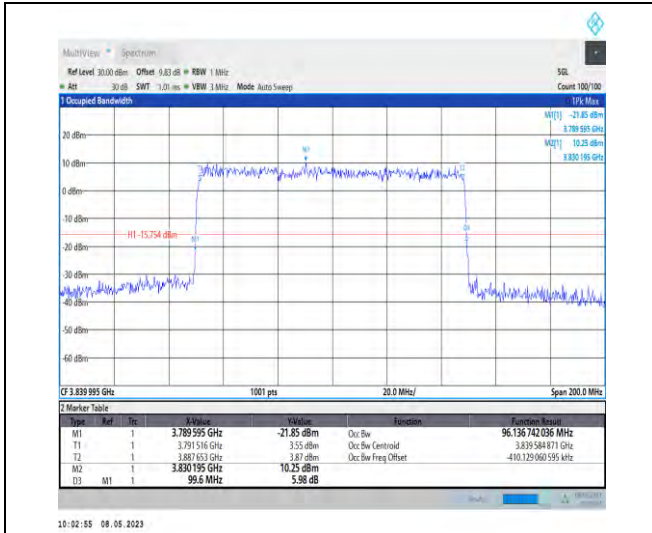
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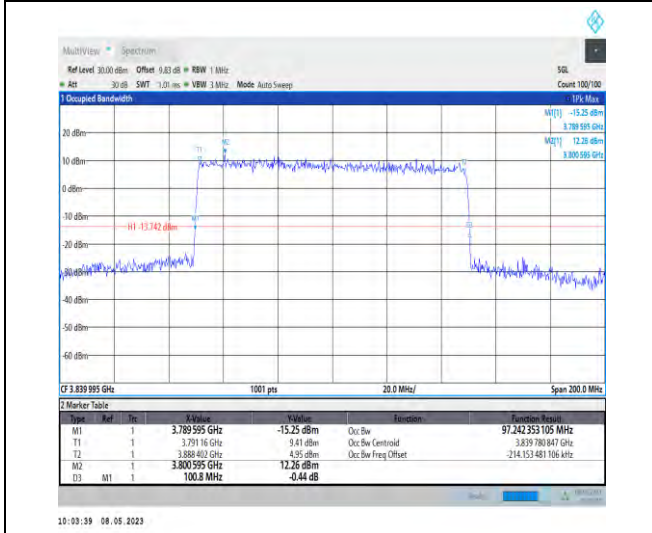




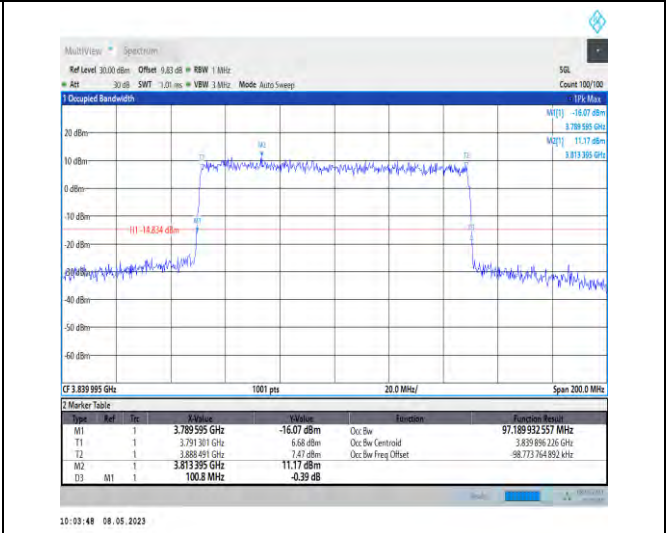
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1-N77-3700-3980-PC2-30-100-M-8-CP-64QAM-Outer\_Full-273@0-Ant1-97.19-100.800-≤100-PASS



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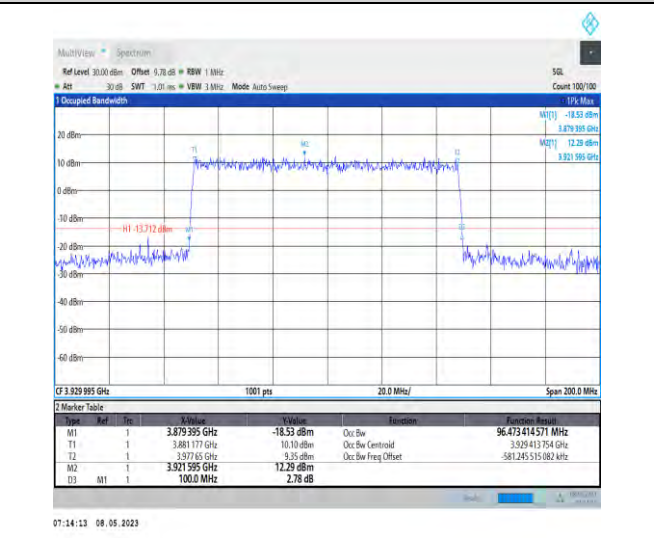
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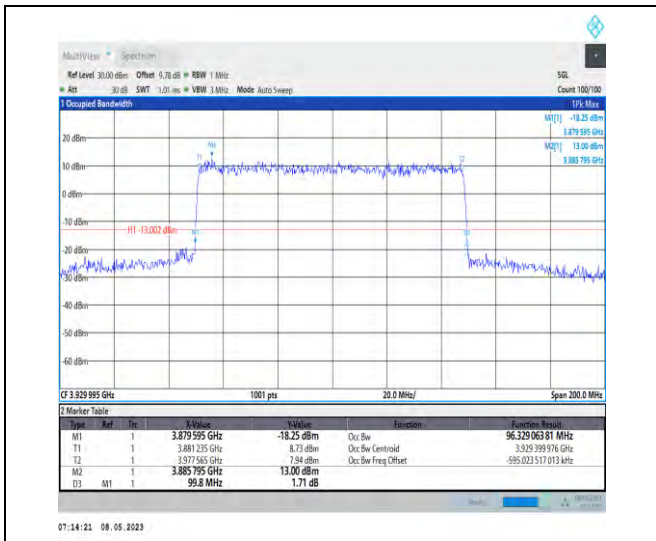
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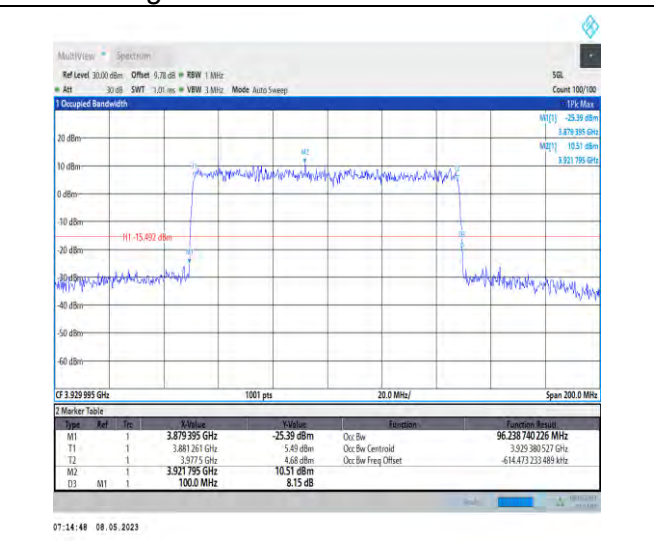
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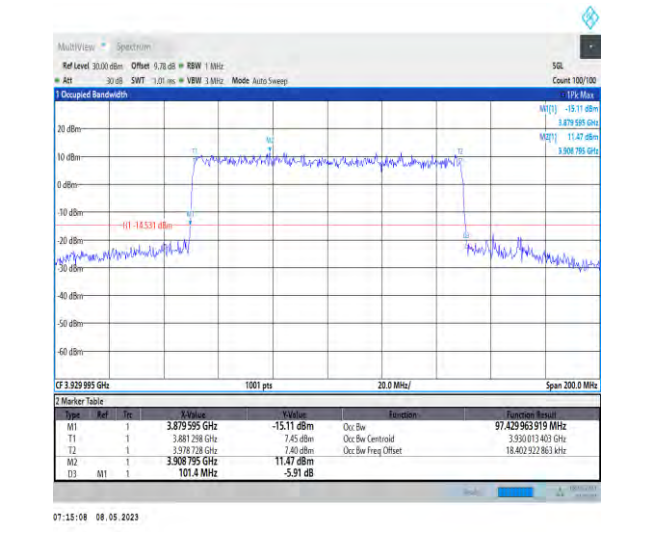
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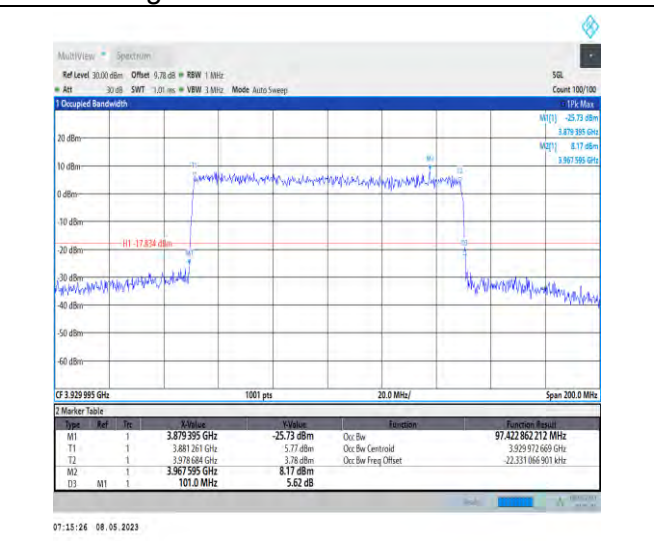
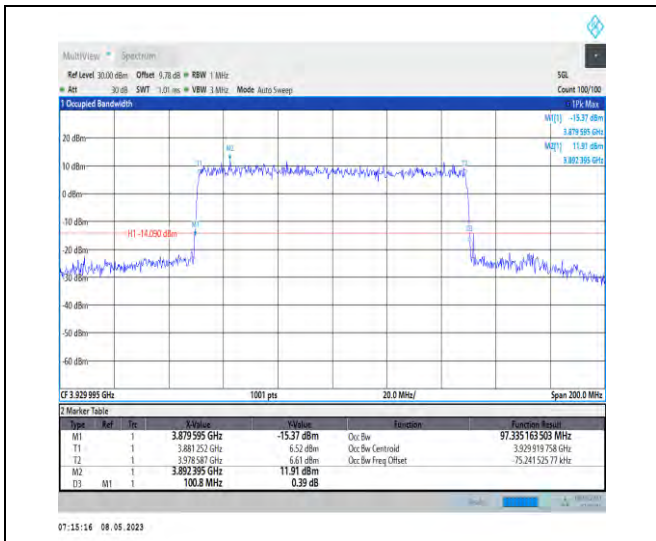


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1-N77-3700-3980-PC2-30-100-H-9-CP-256QAM-Out er\_Full-273@0-Ant1-97.423-101.000-≤100-PASS



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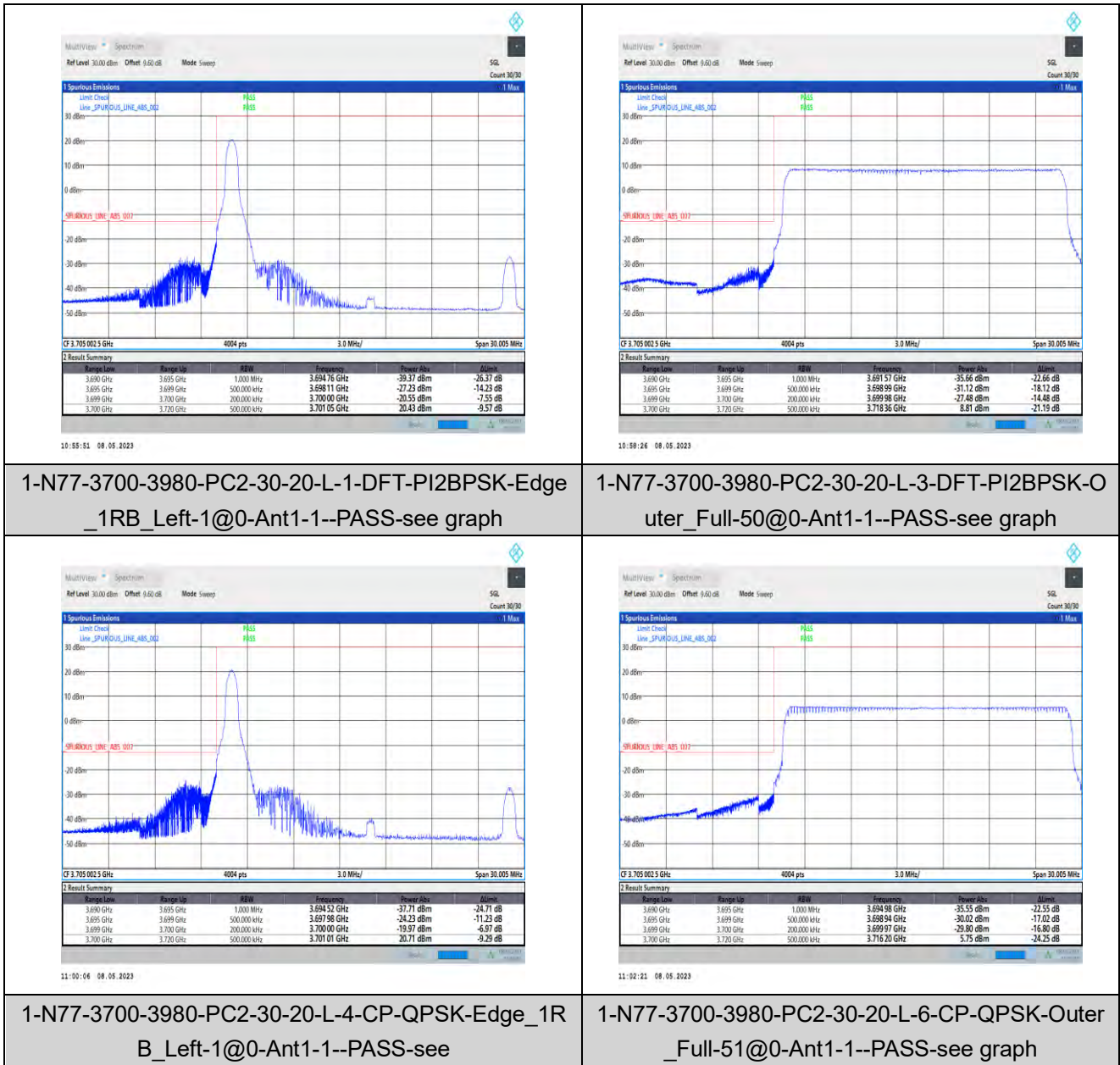
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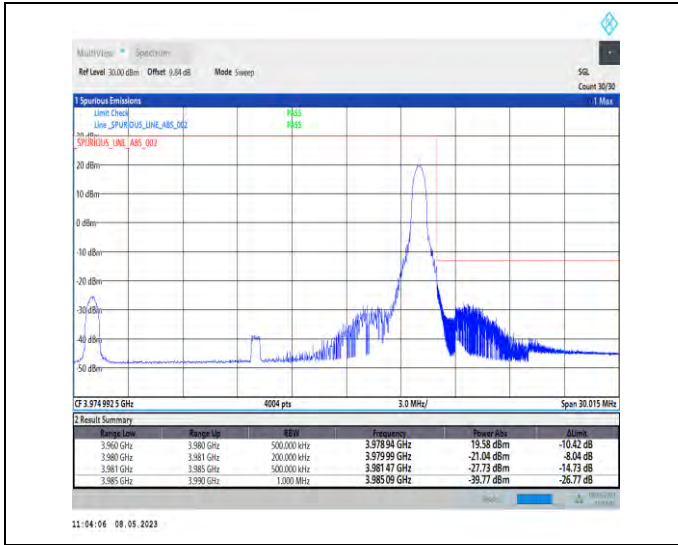
## Band Edge for SA

### Test Graphs



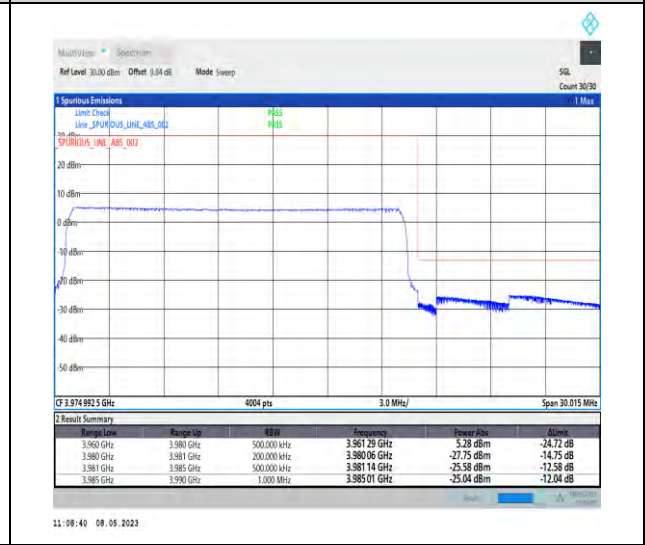
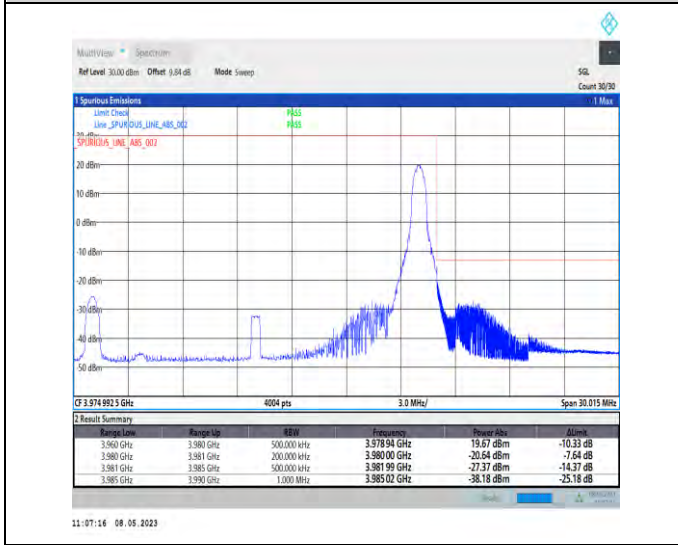
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1-N77-3700-3980-PC2-30-20-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@50-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



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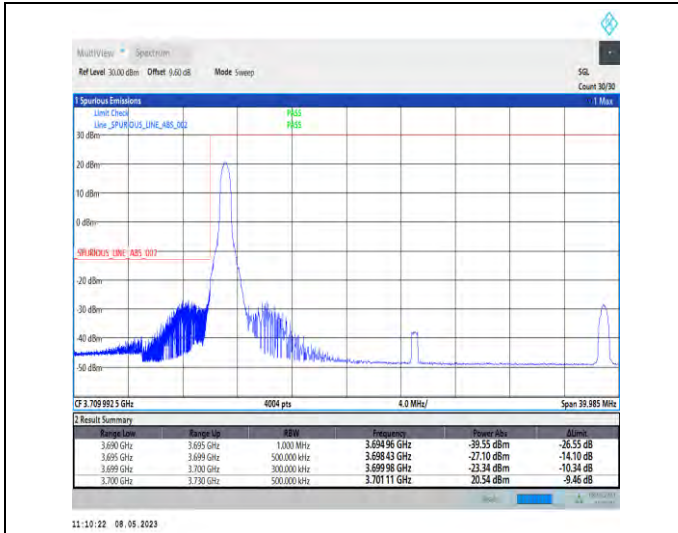
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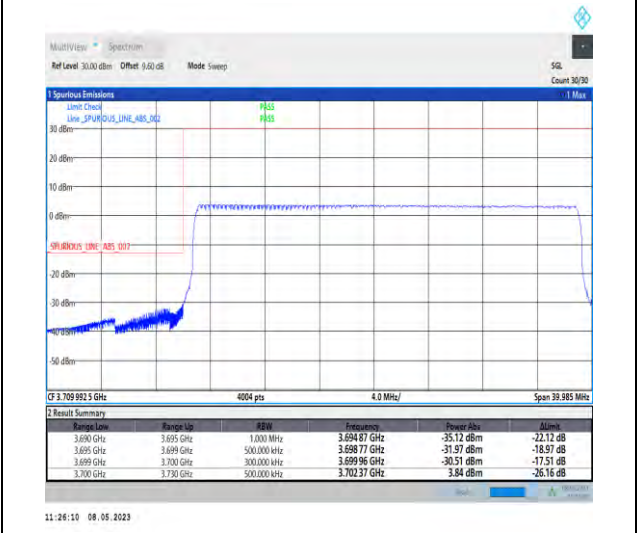
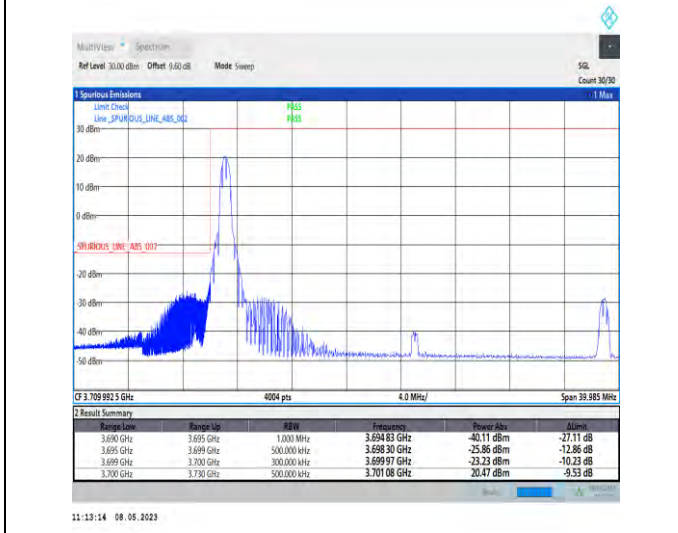
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1-N77-3700-3980-PC2-30-30-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

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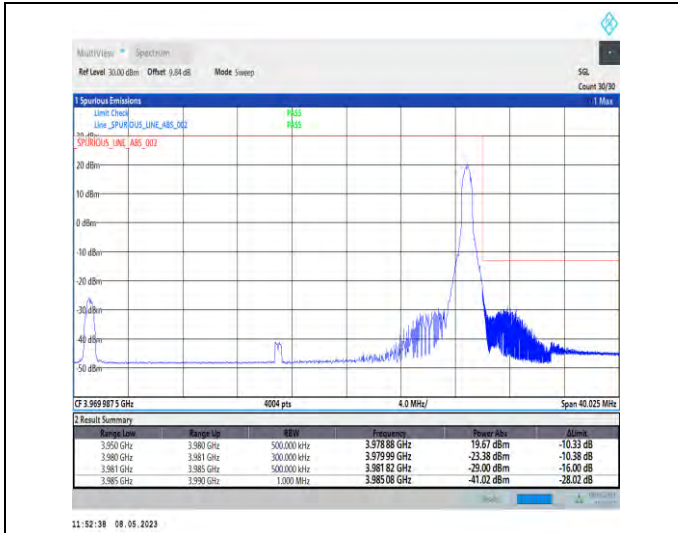
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1-N77-3700-3980-PC2-30-30-L-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



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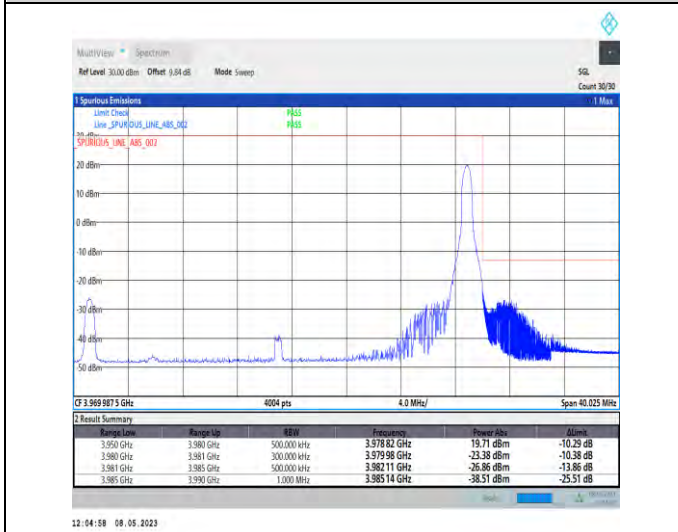
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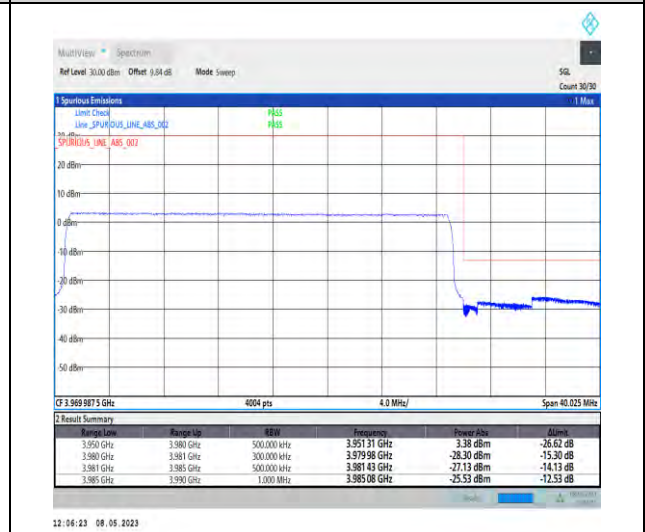
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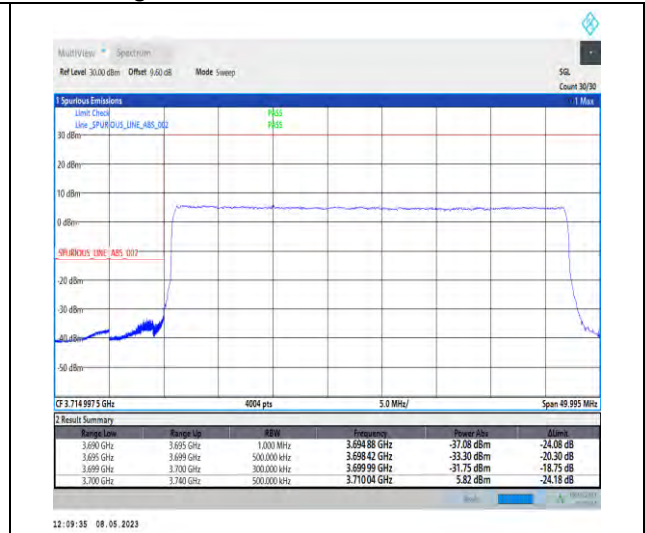
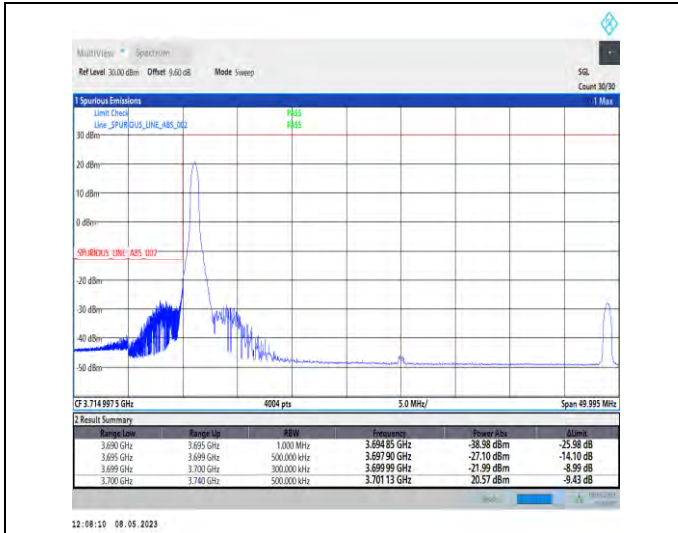
1-N77-3700-3980-PC2-30-30-H-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



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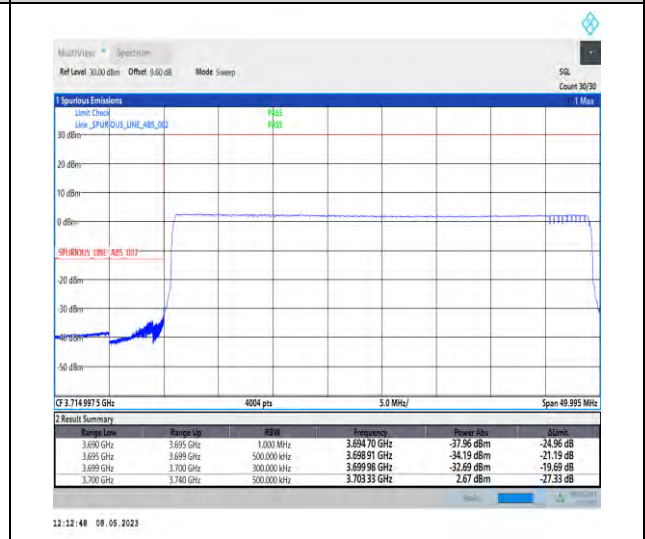
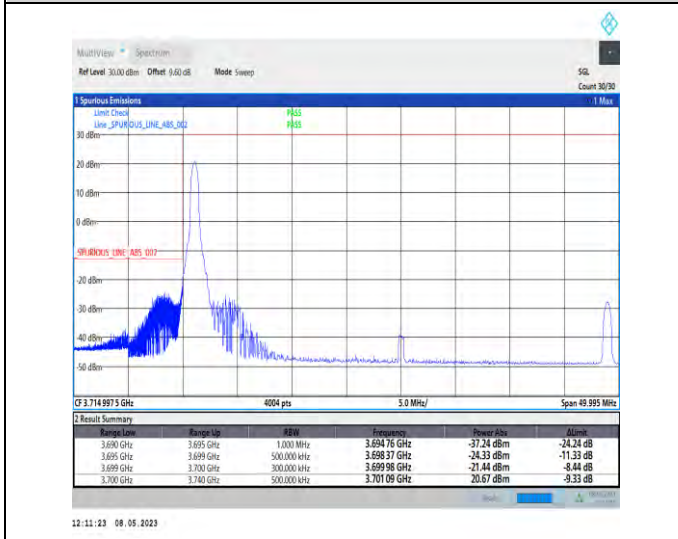
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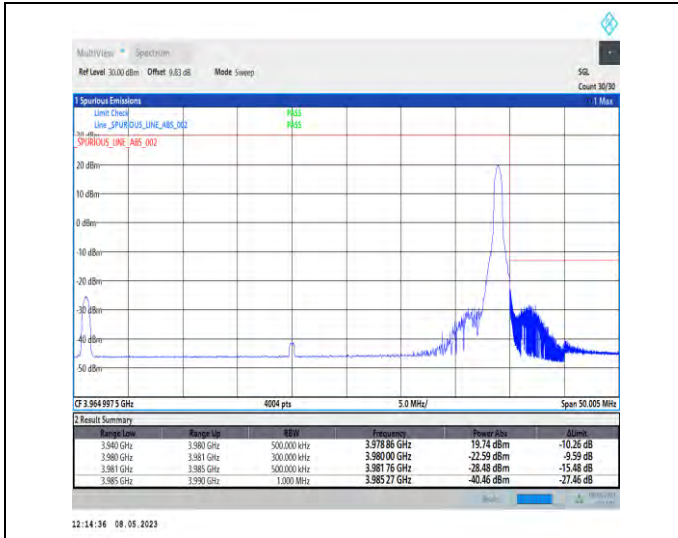
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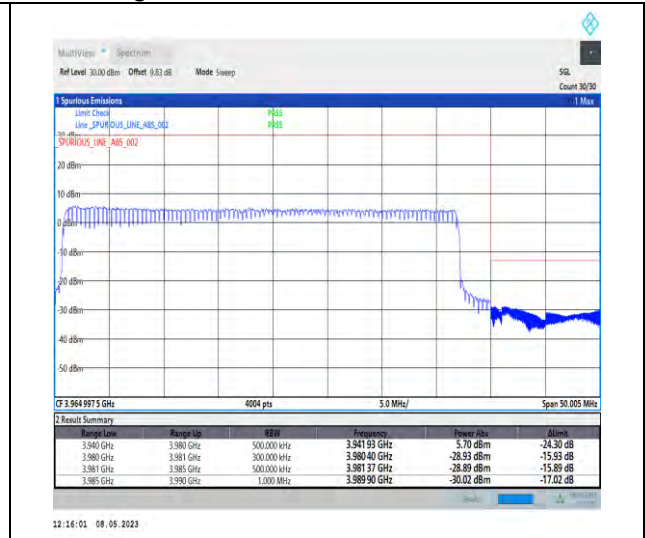


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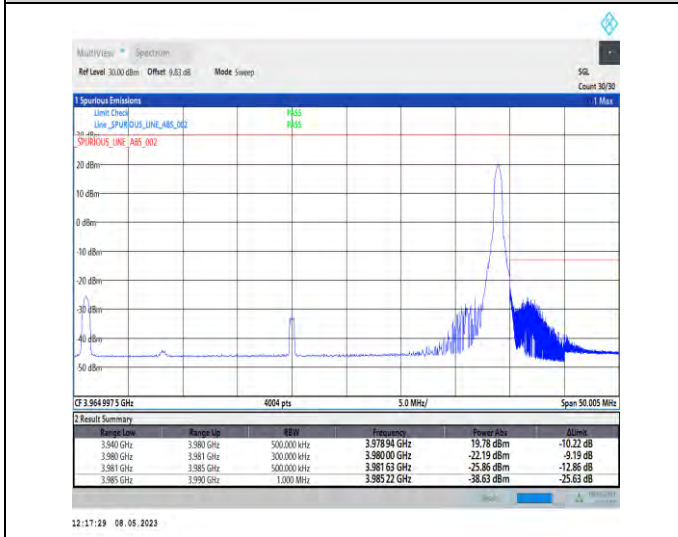
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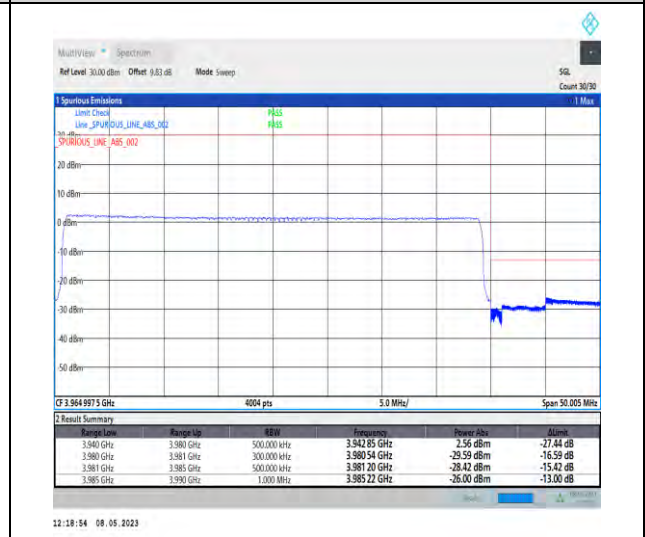
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1-N77-3700-3980-PC2-30-40-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-1--PASS-see graph



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## Conducted Spurious Emission for SA

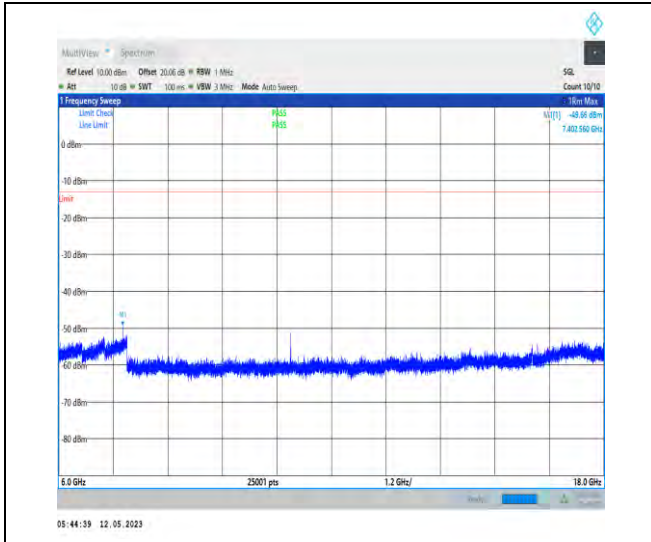
### Test Graphs

<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--80.05--4 3-PASS</p>	<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.30--85.31--33-PA SS</p>
<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-37.28--69.15--13-PASS</p>	<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3545.50--37.72--13-PASS</p>

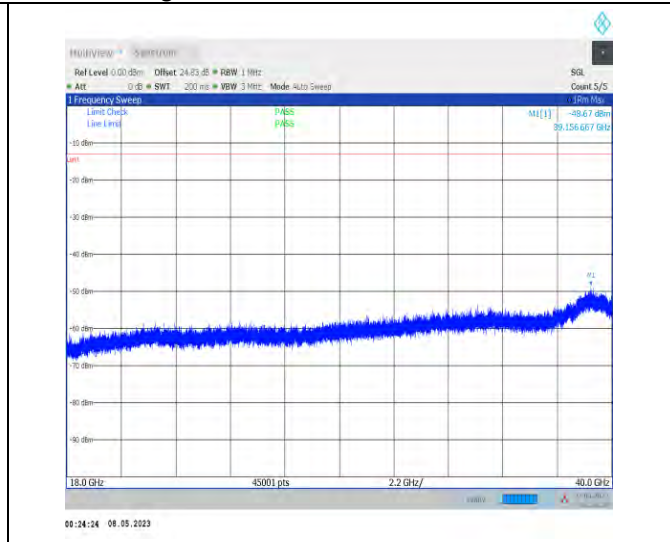


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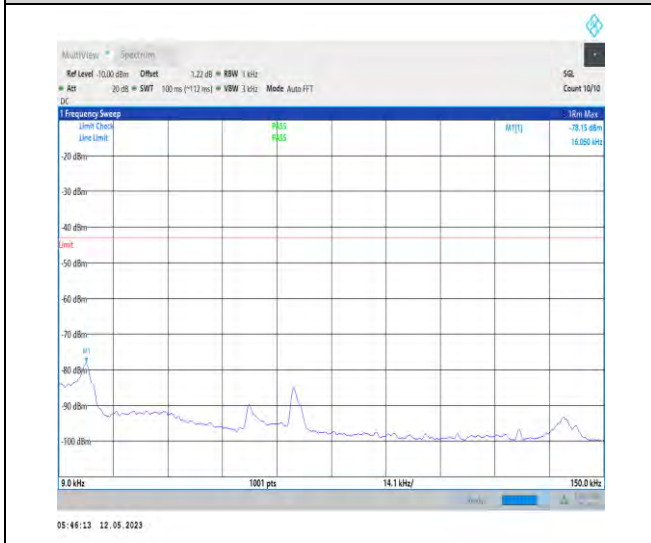
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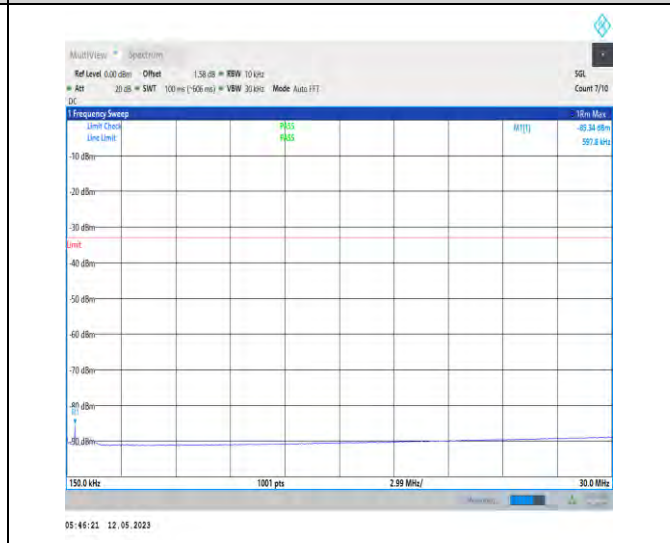
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1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1-18000.00--60.47--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.01--78.15--43-PASS



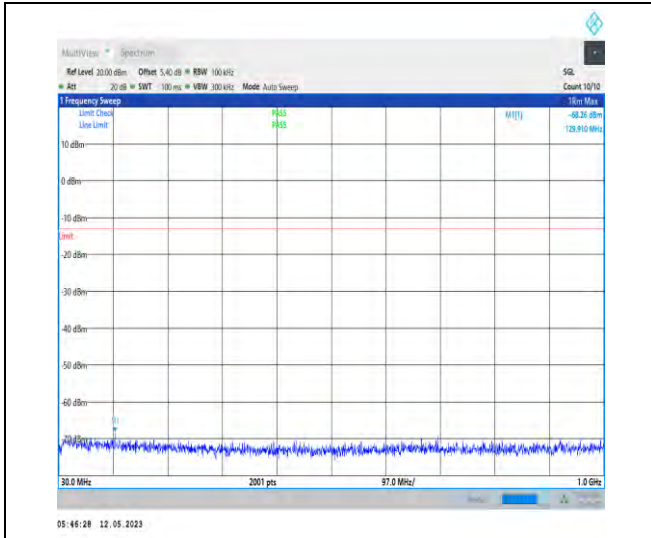
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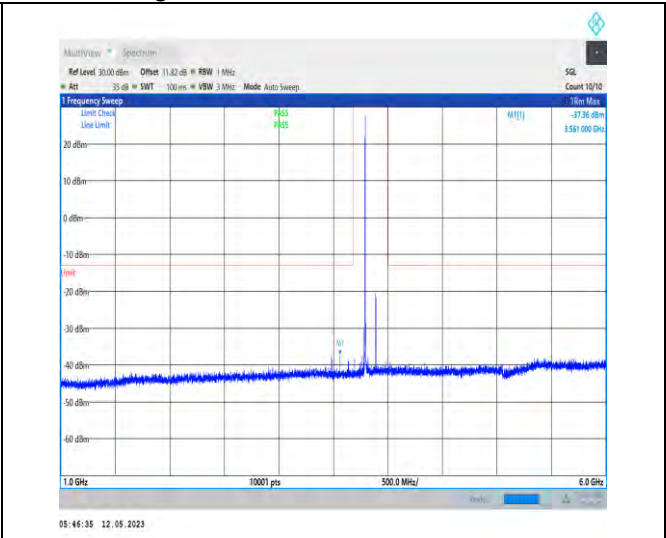
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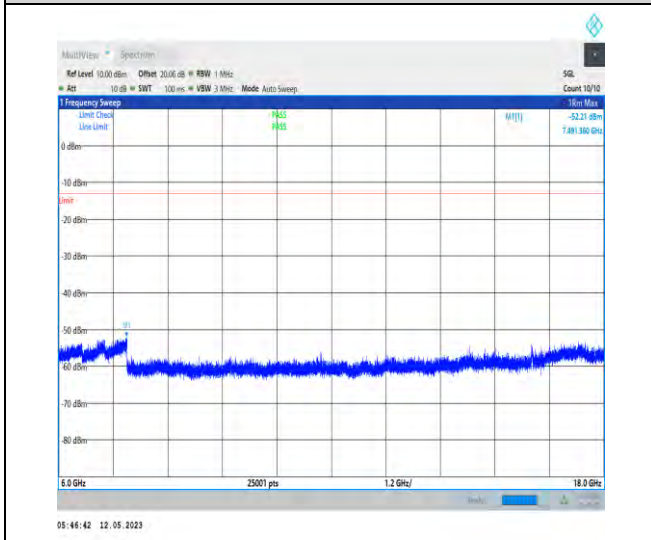




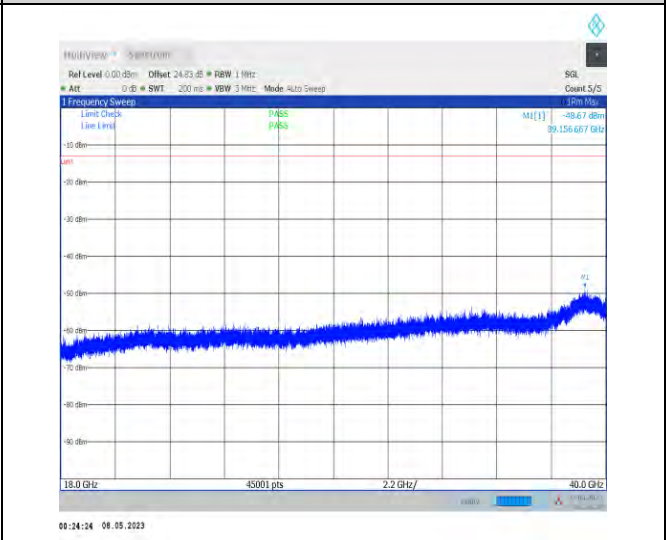
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Inner\_1RB\_Left-1@1-30-1000-Ant1-75.59--68.26--1  
3-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-  
Inner\_1RB\_Left-1@1-1000-6000-Ant1-5296.50--37.36--  
13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-  
Inner\_1RB\_Left-1@1-6000-18000-Ant1-7430.40--52.  
21--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-  
Inner\_1RB\_Left-1@1-18000-40000-Ant1-18000.00--59  
.91--13-PASS

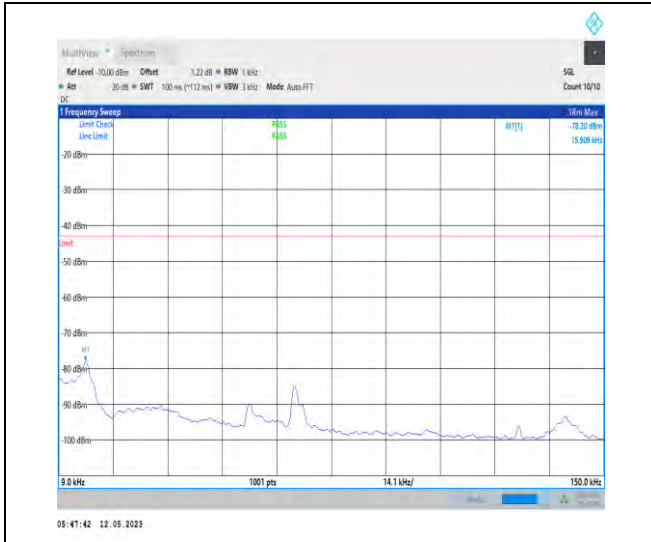


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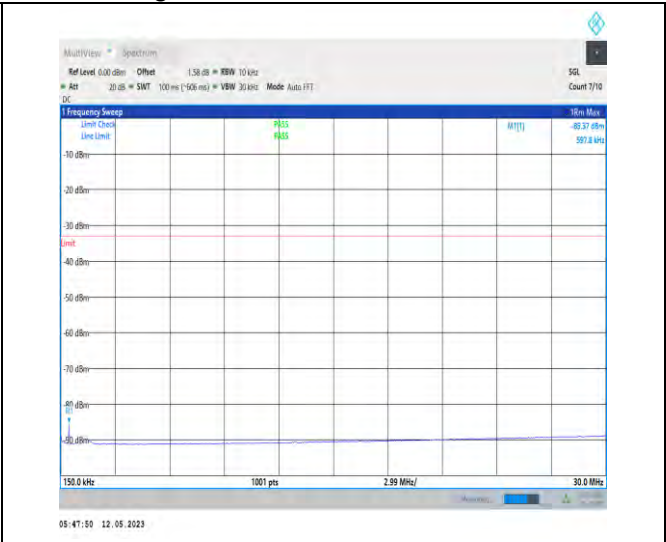
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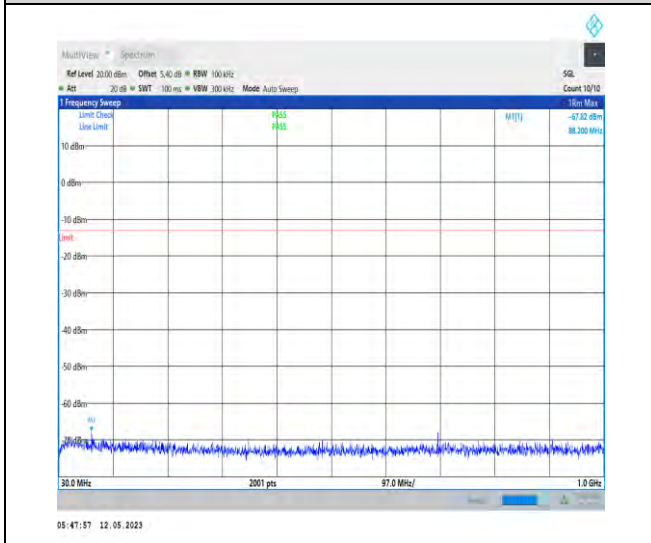
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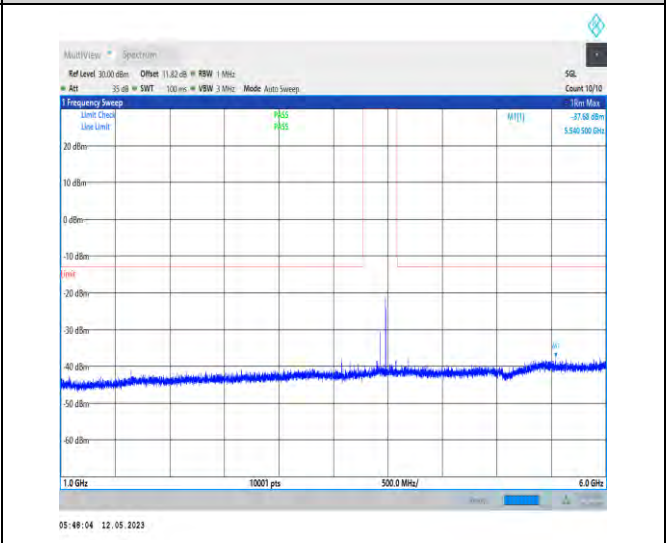
1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.01--78.20--43-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-0.30--85.37--33-PA SS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1-85.29--67.82--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant1-3651.00--37.68--13-PASS



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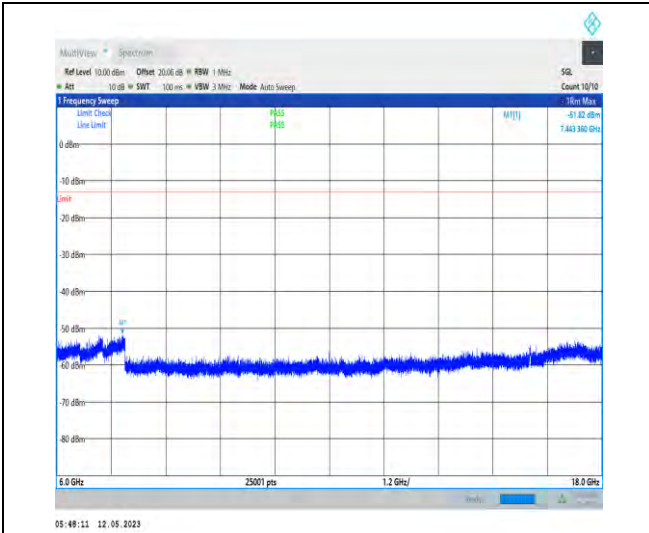
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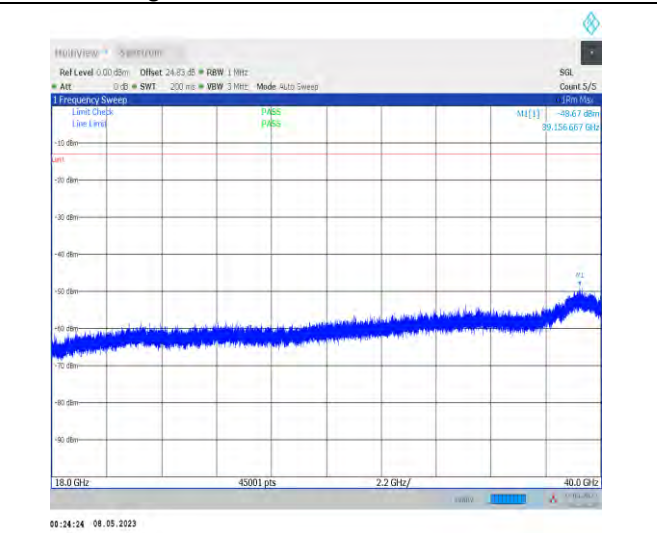
Report No.: SEWM2304000137RG02

Rev.: 01

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1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-I  
 nner\_1RB\_Left-1@1-6000-18000-Ant1-7762.56--51.  
 82--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-In  
 ner\_1RB\_Left-1@1-18000-40000-Ant1-18000.00--60  
 .18--13-PASS



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## Field Strength of Spurious Radiation

Test Band = NR SA Band77\_100MHz \_ TM1

Test Channel = Low 3700-3980 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7898.975	40.67	-42.74	36.89	-60.43	-13.00	47.43	241	358	Horizontal
2	9814.3	35.37	-39.08	38.24	-60.73	-13.00	47.73	152	25	Horizontal
3	10600.325	34.26	-38.01	39.06	-59.95	-13.00	46.95	128	263	Horizontal
4	12836.5	31.58	-36.71	39.67	-60.72	-13.00	47.72	133	211	Horizontal
5	13684.625	31.04	-36.00	40.07	-60.15	-13.00	47.15	259	360	Horizontal
6	15817.3	28.32	-33.25	38.17	-62.01	-13.00	49.01	184	14	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7034.175	41.28	-43.22	36.17	-61.03	-13.00	48.03	245	29	Vertical
2	8814.95	38.25	-41.11	38.09	-60.03	-13.00	47.03	126	14	Vertical
3	10704.975	33.33	-37.54	39.14	-60.32	-13.00	47.32	136	148	Vertical
4	11446.15	32.65	-37.05	39.06	-60.60	-13.00	47.60	258	208	Vertical
5	13703.6	30.92	-36.00	40.05	-60.29	-13.00	47.29	174	88	Vertical
6	15147.425	30.60	-34.14	39.02	-59.78	-13.00	46.78	122	74	Vertical



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Test Band = NR SA Band77\_100MHz\_TM1

Test Channel = Mid 3700-3980 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7501.075	51.21	-43.17	36.44	-50.78	-13.00	37.78	211	30	Horizontal
2	8412.45	40.16	-41.42	37.36	-59.17	-13.00	46.17	146	301	Horizontal
3	9062.2	37.68	-40.58	38.24	-59.92	-13.00	46.92	259	165	Horizontal
4	11218.45	32.92	-36.72	39.11	-59.95	-13.00	46.95	184	16	Horizontal
5	13439.1	30.29	-36.30	40.15	-61.12	-13.00	48.12	175	344	Horizontal
6	15147.425	30.01	-34.14	39.02	-60.37	-13.00	47.37	166	75	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7467.725	42.62	-43.05	36.46	-59.23	-13.00	46.23	255	359	Vertical
2	8932.25	38.06	-40.90	38.16	-59.94	-13.00	46.94	142	118	Vertical
3	10718.775	33.42	-37.67	39.16	-60.36	-13.00	47.36	136	59	Vertical
4	12822.7	31.06	-36.68	39.65	-61.22	-13.00	48.22	266	135	Vertical
5	13973.275	29.86	-34.99	40.12	-60.28	-13.00	47.28	291	239	Vertical
6	15825.925	28.46	-33.34	38.16	-61.98	-13.00	48.98	400	118	Vertical



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Test Band = NR SA Band77\_100MHz\_TM1

Test Channel = High 3700-3980 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6993.35	41.29	-43.05	36.07	-60.95	-13.00	47.95	144	25	Horizontal
2	9129.475	37.63	-40.27	38.29	-59.61	-13.00	46.61	155	12	Horizontal
3	11147.15	33.42	-37.21	39.10	-59.95	-13.00	46.95	186	269	Horizontal
4	12364.425	30.79	-36.87	39.08	-62.25	-13.00	49.25	129	299	Horizontal
5	14315.4	30.41	-35.74	40.14	-60.45	-13.00	47.45	187	360	Horizontal
6	15789.125	27.97	-33.08	38.21	-62.16	-13.00	49.16	132	164	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7072.7	41.39	-43.48	36.27	-61.08	-13.00	48.08	245	60	Vertical
2	8671.775	39.19	-41.21	37.87	-59.41	-13.00	46.41	122	360	Vertical
3	10043.15	35.28	-39.09	38.56	-60.51	-13.00	47.51	184	269	Vertical
4	11243.175	33.07	-36.87	39.11	-59.95	-13.00	46.95	175	4	Vertical
5	13617.35	30.68	-36.03	40.13	-60.48	-13.00	47.48	126	330	Vertical
6	15854.1	28.83	-33.64	38.11	-61.96	-13.00	48.96	253	255	Vertical



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Test Band = NR SA Band77\_100MHz\_TM1

Test Channel = Low 3700-3980 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7506.825	49.54	-43.14	36.44	-52.42	-13.00	39.42	241	29	Horizontal
2	9418.7	36.62	-39.93	38.49	-60.08	-13.00	47.08	125	209	Horizontal
3	11194.3	32.34	-36.67	39.11	-60.48	-13.00	47.48	155	359	Horizontal
4	12819.25	30.69	-36.67	39.65	-61.59	-13.00	48.59	185	180	Horizontal
5	15146.85	30.27	-34.14	39.02	-60.11	-13.00	47.11	126	331	Horizontal
6	15793.725	28.11	-33.07	38.21	-62.02	-13.00	49.02	299	151	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6965.75	41.32	-43.30	36.04	-61.20	-13.00	48.20	211	88	Vertical
2	8408.425	39.82	-41.41	37.35	-59.50	-13.00	46.50	145	360	Vertical
3	10476.125	34.81	-38.75	38.94	-60.26	-13.00	47.26	188	179	Vertical
4	11218.45	32.76	-36.72	39.11	-60.11	-13.00	47.11	142	105	Vertical
5	13906	30.37	-35.52	40.06	-60.36	-13.00	47.36	136	359	Vertical
6	16831.025	30.65	-34.47	38.41	-60.67	-13.00	47.67	259	196	Vertical



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Test Band = NR SA Band77\_100MHz\_TM1

Test Channel = Mid 3700-3980 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7019.225	41.00	-43.12	36.13	-61.25	-13.00	48.25	211	179	Horizontal
2	8407.275	39.60	-41.40	37.35	-59.72	-13.00	46.72	145	104	Horizontal
3	8959.275	38.23	-40.89	38.18	-59.74	-13.00	46.74	126	150	Horizontal
4	10652.65	33.26	-37.74	39.10	-60.63	-13.00	47.63	285	255	Horizontal
5	12789.925	30.26	-36.64	39.61	-62.03	-13.00	49.03	142	59	Horizontal
6	15146.85	29.81	-34.14	39.02	-60.57	-13.00	47.57	136	209	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7499.925	49.18	-43.17	36.44	-52.81	-13.00	39.81	214	118	Vertical
2	9024.25	38.34	-40.76	38.22	-59.46	-13.00	46.46	156	208	Vertical
3	11163.25	32.47	-37.02	39.10	-60.71	-13.00	47.71	236	44	Vertical
4	12354.65	31.36	-36.83	39.08	-61.65	-13.00	48.65	259	284	Vertical
5	13970.4	29.41	-35.01	40.11	-60.75	-13.00	47.75	144	359	Vertical
6	15330.85	28.42	-33.96	38.79	-62.01	-13.00	49.01	188	44	Vertical



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Test Band = NR SA Band77\_100MHz\_TM1

Test Channel = High 3700-3980 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6794.975	41.70	-43.58	35.83	-61.31	-13.00	48.31	211	344	Horizontal
2	8400.375	39.65	-41.37	37.33	-59.65	-13.00	46.65	142	272	Horizontal
3	9606.725	36.47	-39.22	38.43	-59.58	-13.00	46.58	185	301	Horizontal
4	10342.15	34.50	-38.86	38.85	-60.78	-13.00	47.78	136	360	Horizontal
5	12229.3	31.04	-36.97	39.12	-62.07	-13.00	49.07	255	47	Horizontal
6	15147.425	29.38	-34.14	39.02	-61.00	-13.00	48.00	169	227	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7011.75	41.48	-43.07	36.11	-60.74	-13.00	47.74	211	120	Vertical
2	8924.775	38.35	-40.90	38.15	-59.66	-13.00	46.66	148	360	Vertical
3	10692.9	32.97	-37.53	39.13	-60.68	-13.00	47.68	175	91	Vertical
4	12149.95	30.70	-37.15	39.09	-62.62	-13.00	49.62	142	165	Vertical
5	13627.125	30.12	-36.03	40.12	-61.04	-13.00	48.04	195	360	Vertical
6	14995.625	30.87	-34.45	39.23	-59.61	-13.00	46.61	183	210	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-0.200000	-0.000052	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.800000	-0.001250	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.400000	0.000625	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	2.400000	0.000625	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-0.200000	-0.000052	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-3.300000	-0.000859	PASS

#### Frequency Error VS. Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.800000	-0.000729	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-9.300000	-0.002422	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.300000	-0.000859	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.100000	-0.000026	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	1.700000	0.000443	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	2.100000	0.000547	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	1.400000	0.000365	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	0.500000	0.000130	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.200000	-0.000573	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-3.400000	-0.000885	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-3.800000	-0.000990	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	7.100000	0.001849	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	6.500000	0.001693	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-6.400000	-0.001667	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-7.700000	-0.002005	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	1.600000	0.000417	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	2.300000	0.000599	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	2.000000	0.000521	PASS

---End of Attachment---



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