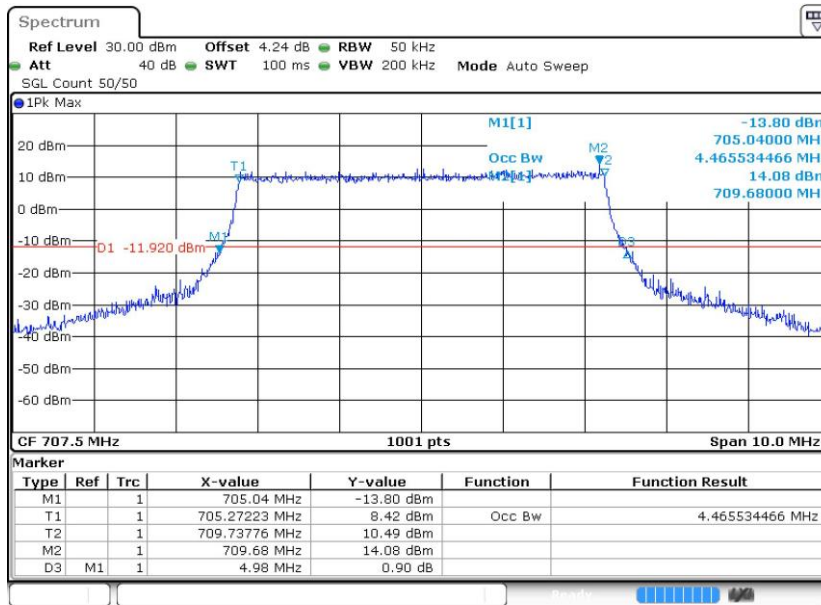




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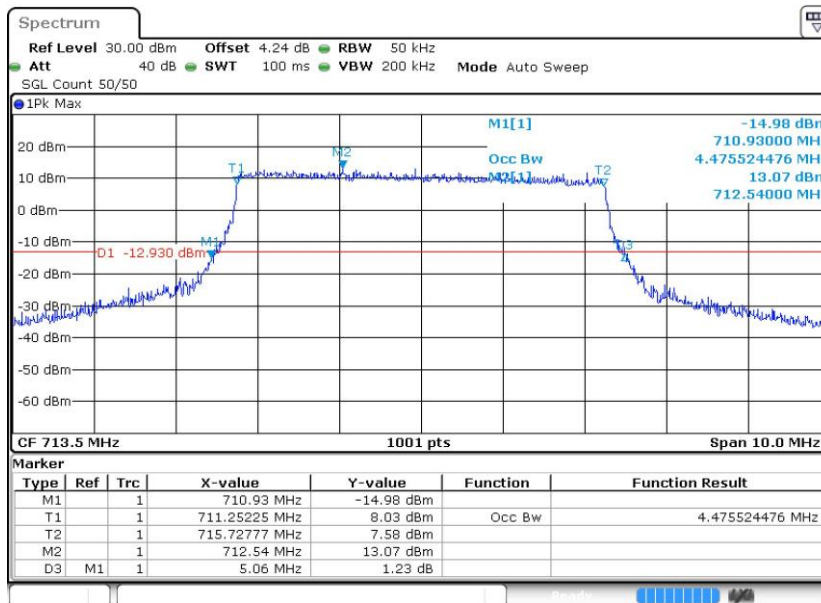
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Date: 19.DEC.2023 05:53:59

Band12-5MHz-16QAM-23155-25RB#0



Date: 19.DEC.2023 05:54:36



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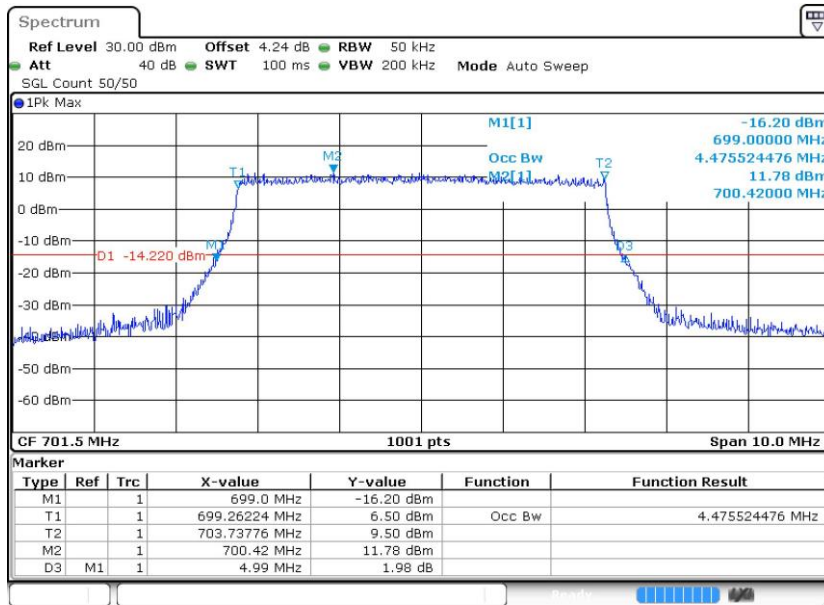
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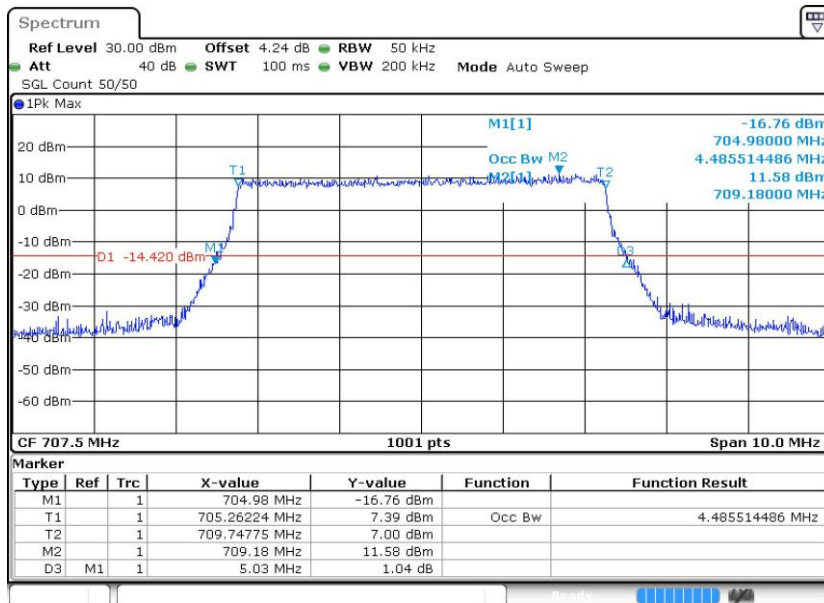
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Date: 19.DEC.2023 15:18:05

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Date: 19.DEC.2023 15:18:23



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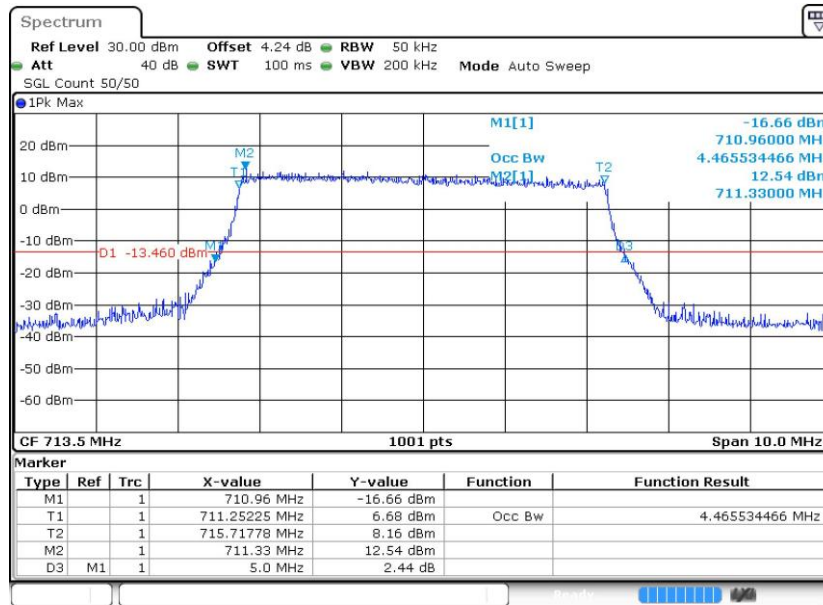
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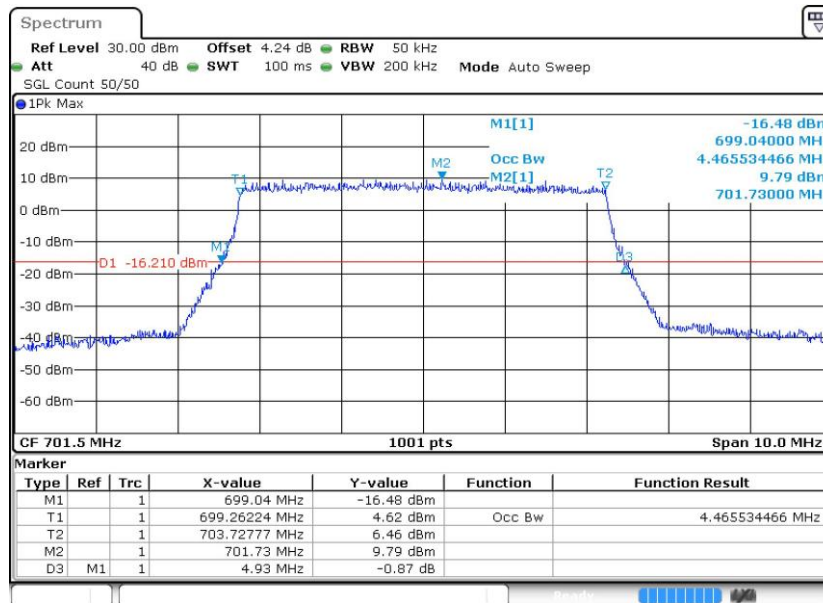
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Date: 19.DEC.2023 15:18:41

Band12-5MHz-256QAM-23035-25RB#0



Date: 19.DEC.2023 20:15:26



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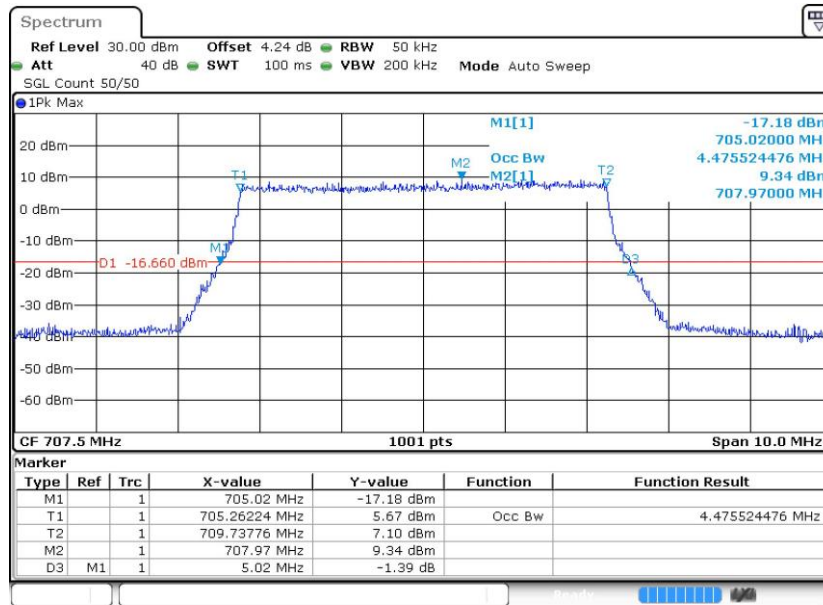
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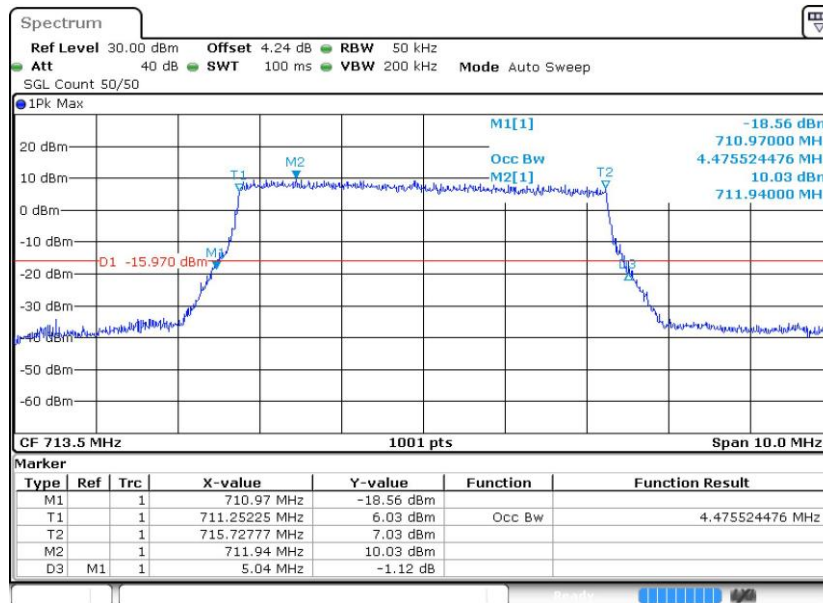
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Band12-5MHz-256QAM-23155-25RB#0



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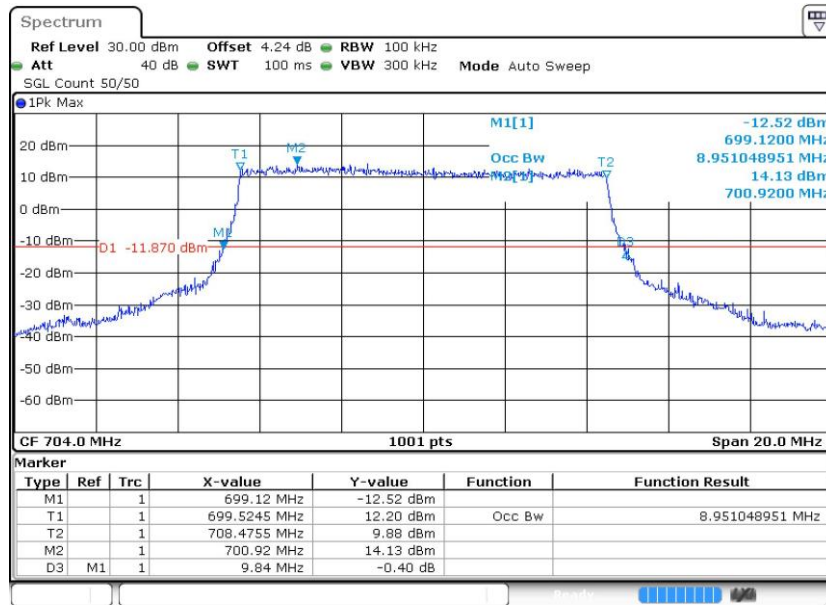
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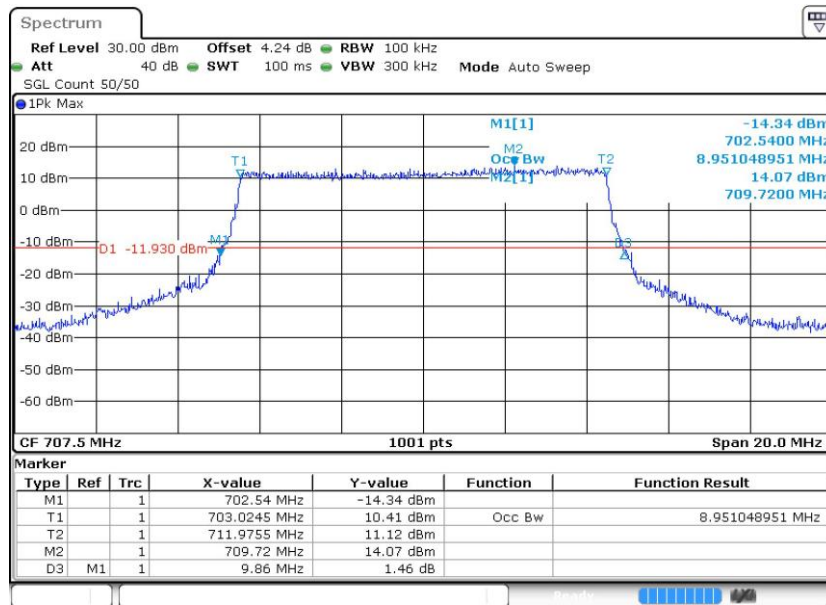
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Band12-10MHz-QPSK-23060-50RB#0



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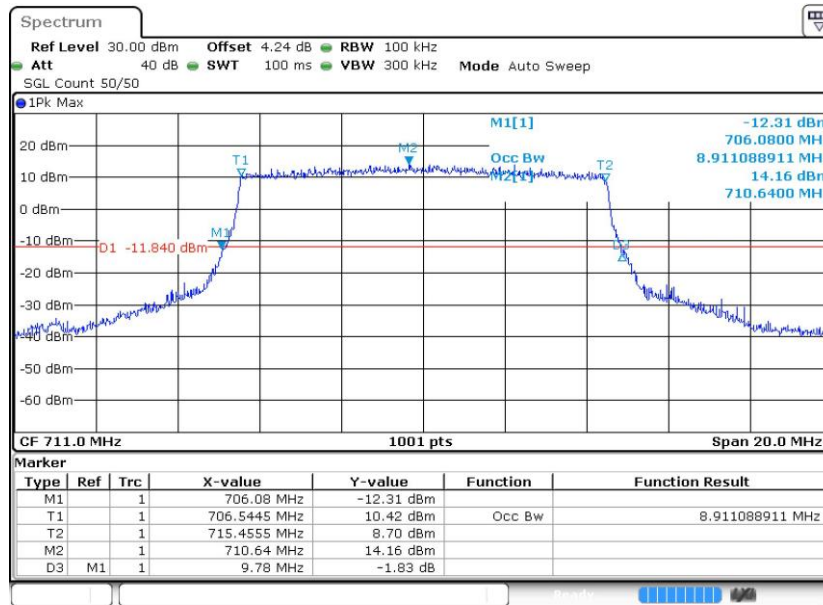
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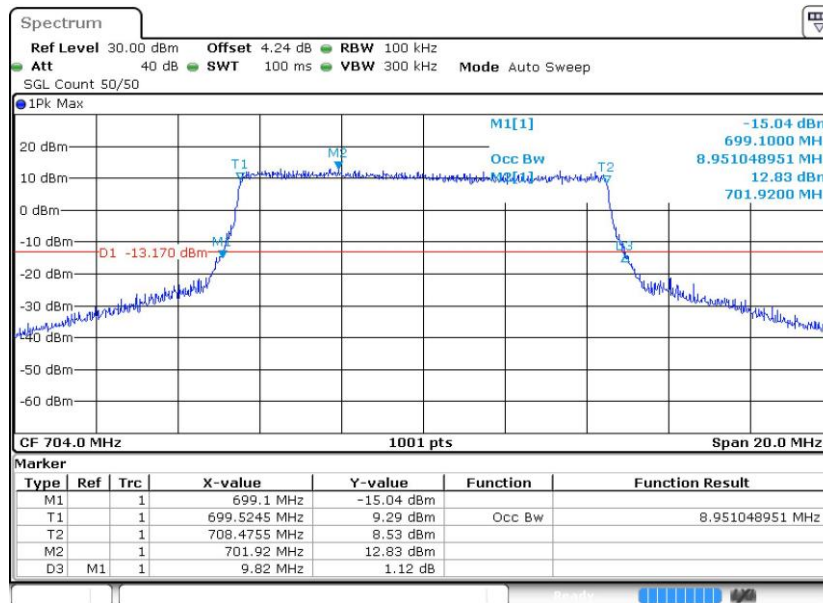
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Date: 19.DEC.2023 05:56:26

Band12-10MHz-16QAM-23060-50RB#0



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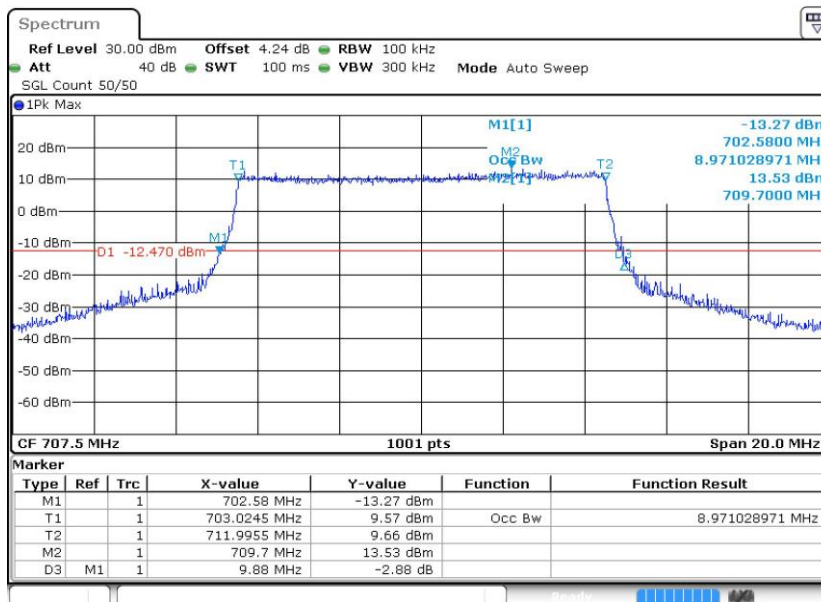
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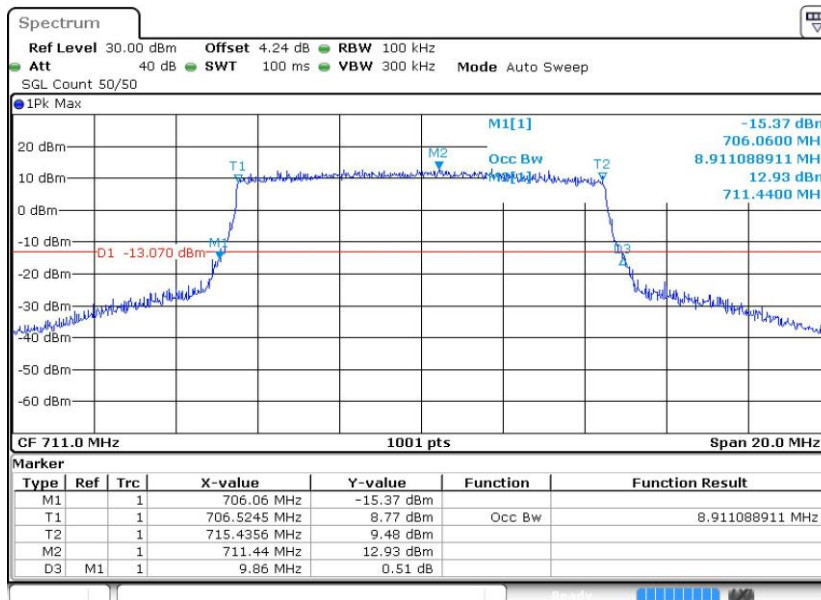
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Band12-10MHz-16QAM-23130-50RB#0



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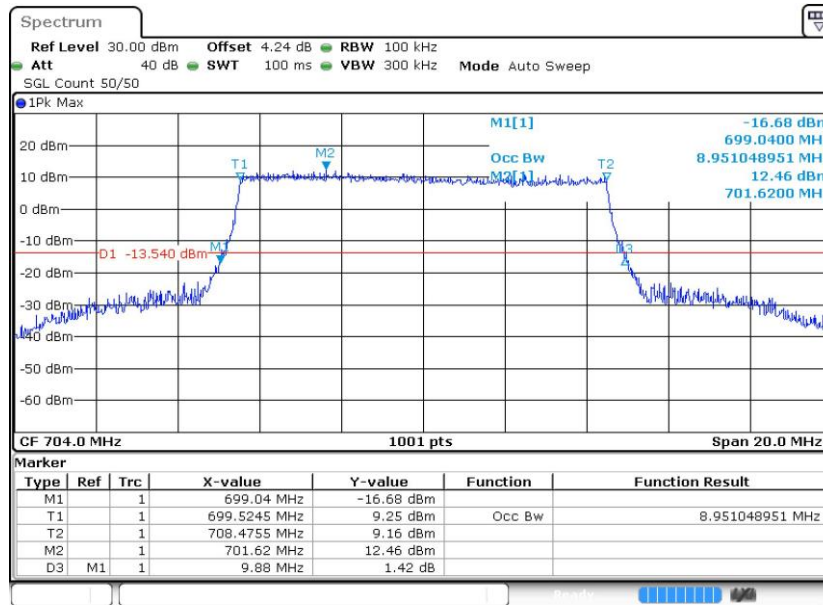
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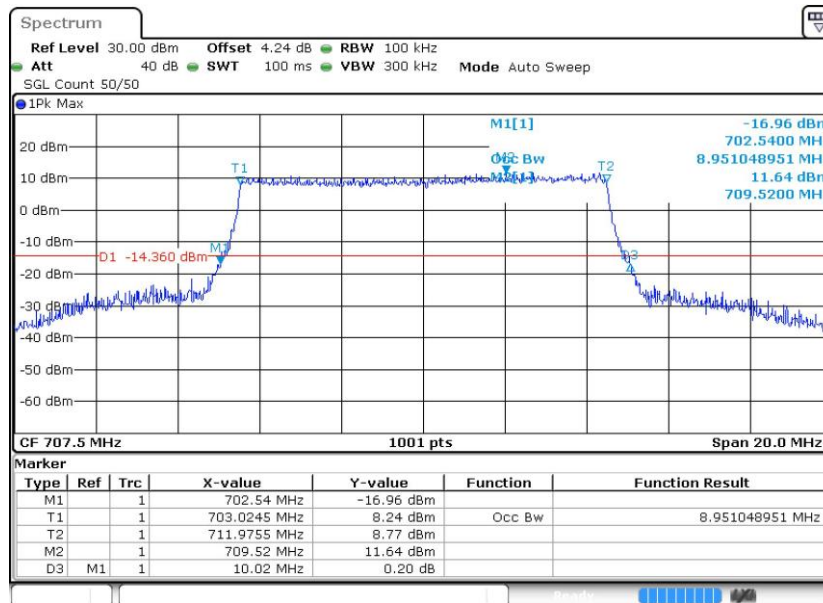
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Date: 19.DEC.2023 15:19:17

Band12-10MHz-64QAM-23095-50RB#0



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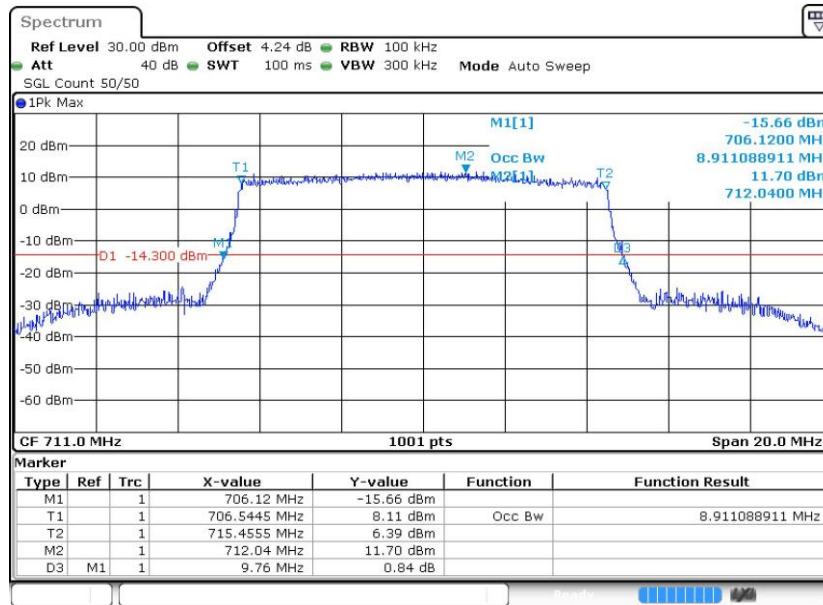
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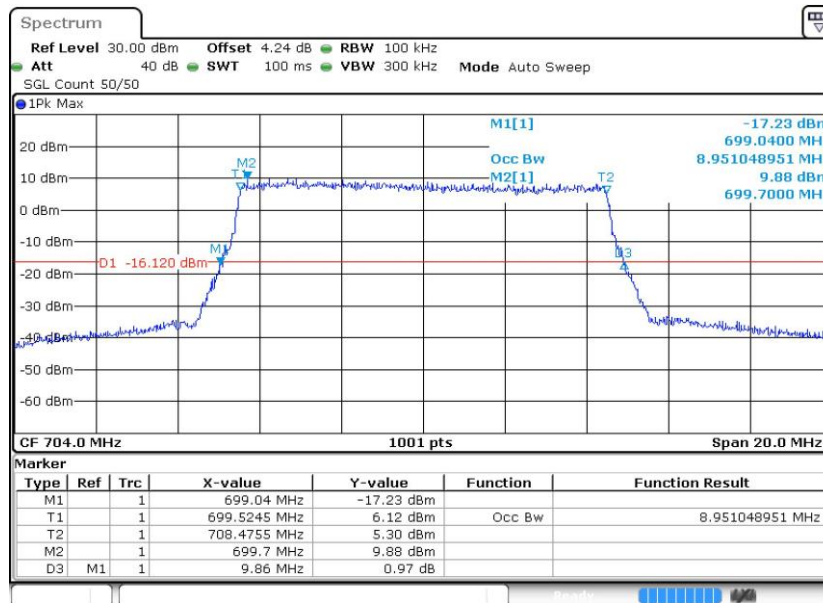
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Band12-10MHz-256QAM-23060-50RB#0



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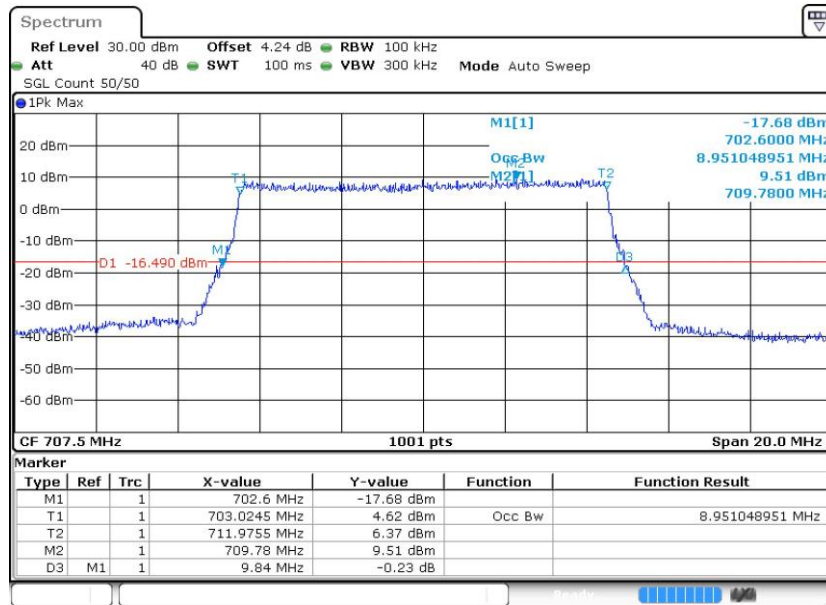
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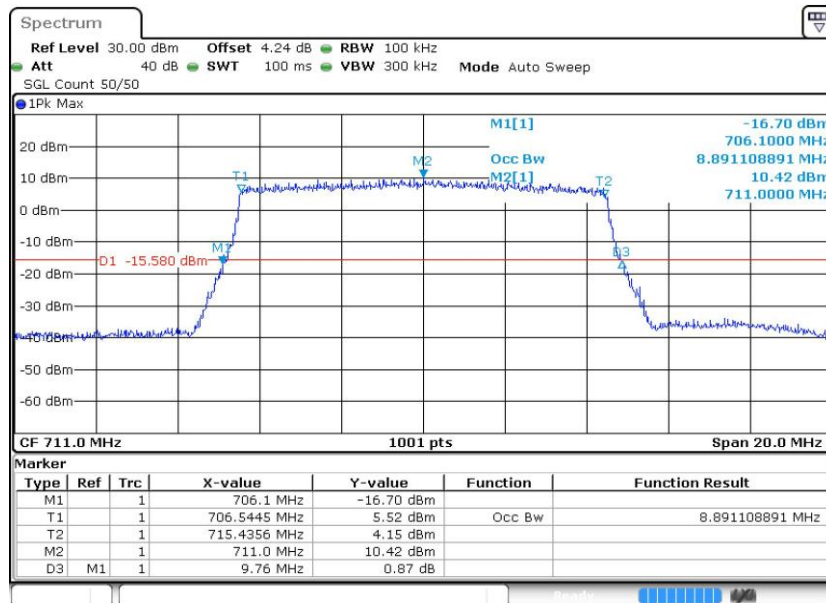
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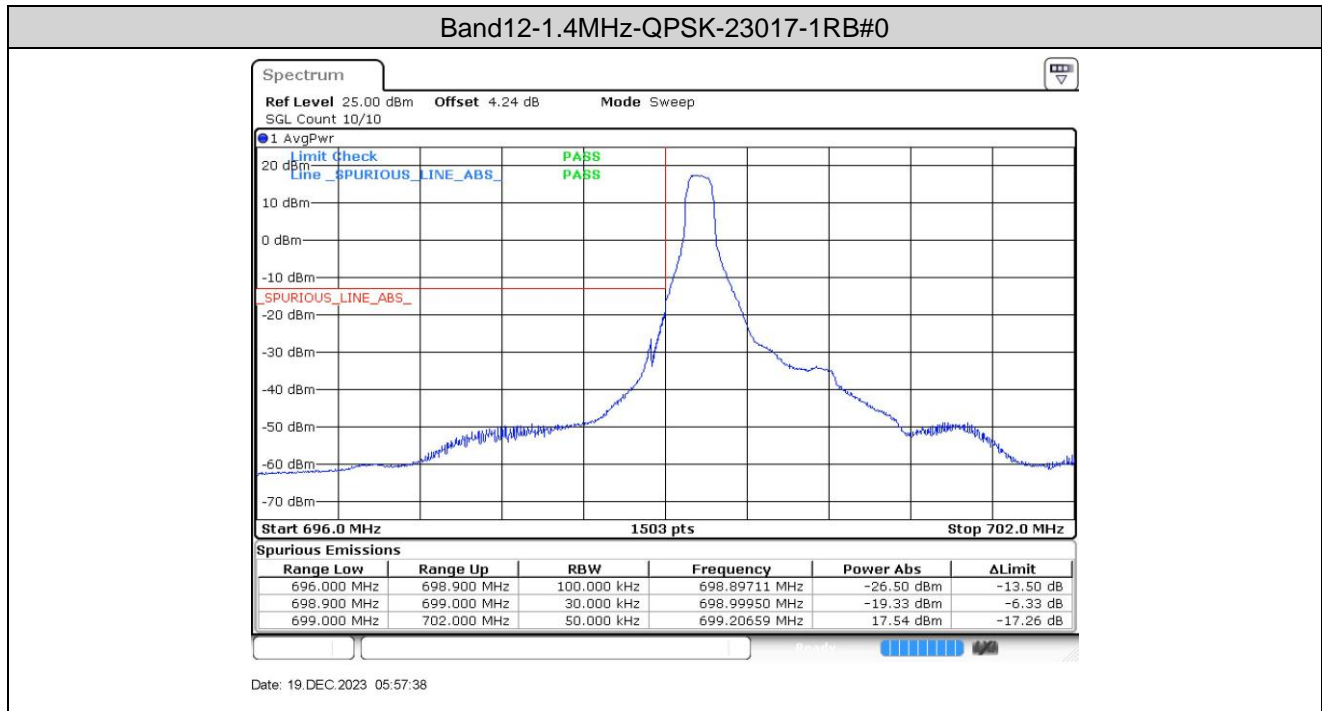


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Test Graphs



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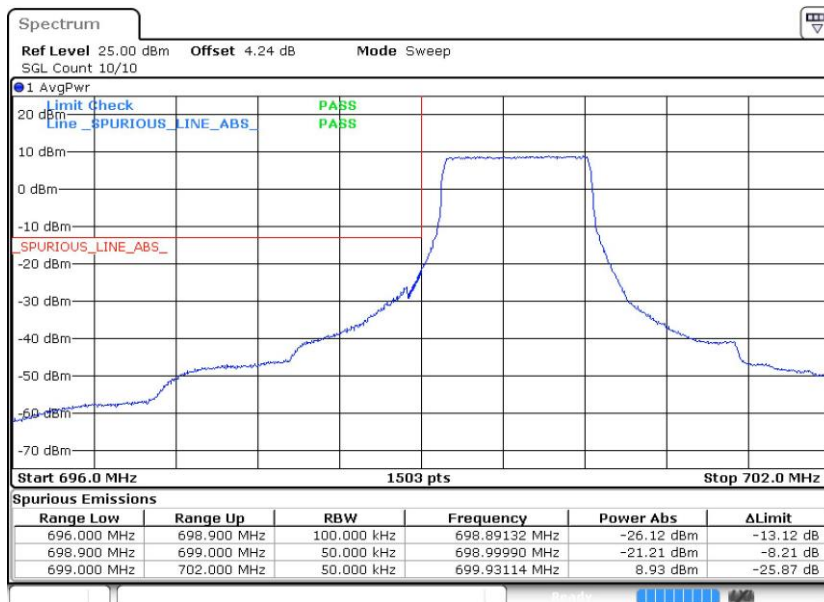
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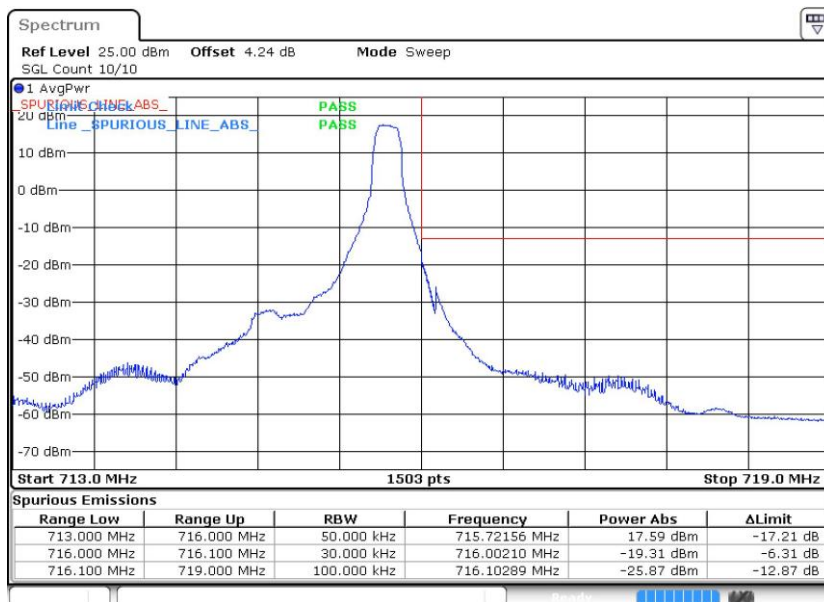
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Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23173-1RB#5



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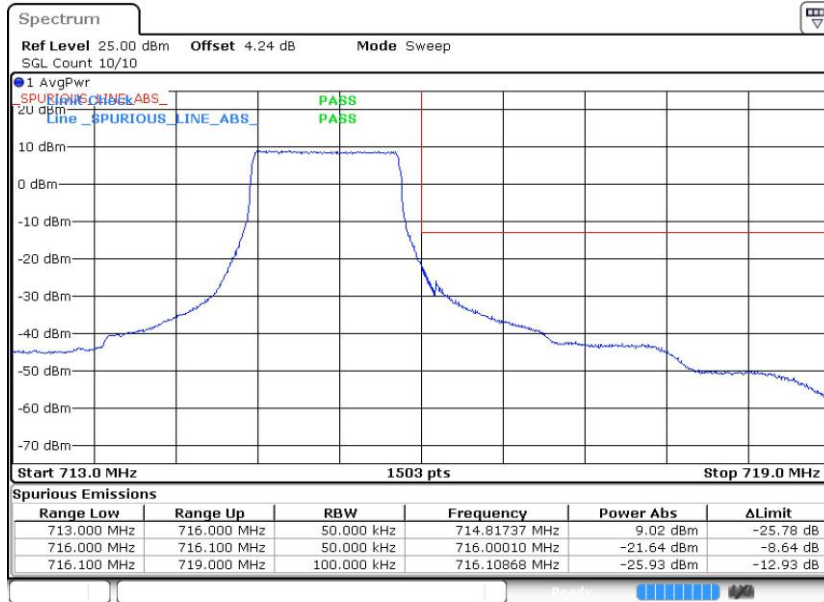
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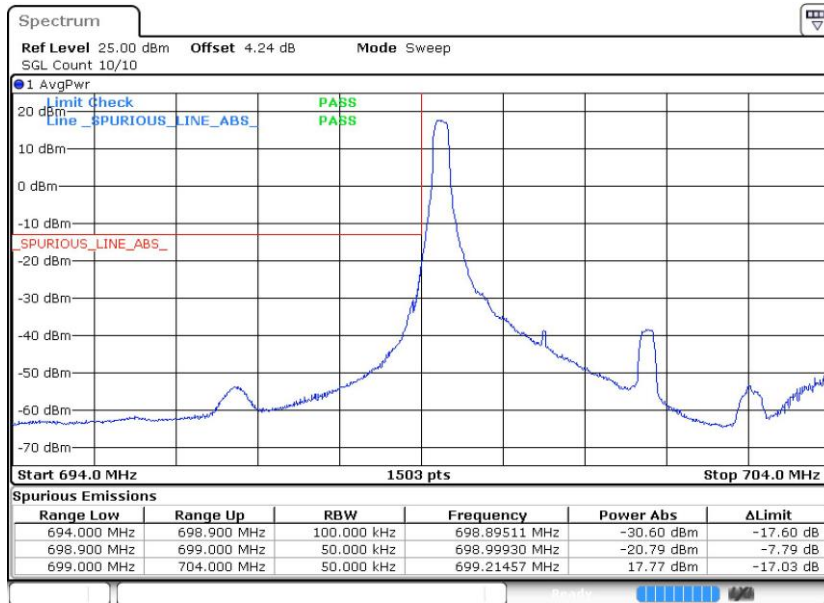
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Band12-1.4MHz-QPSK-23173-6RB#0



Band12-3MHz-QPSK-23025-1RB#0



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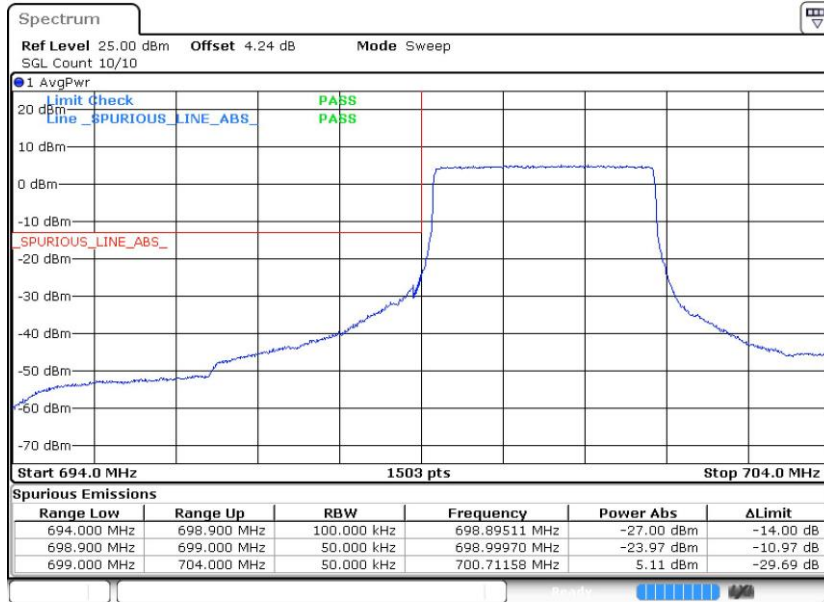
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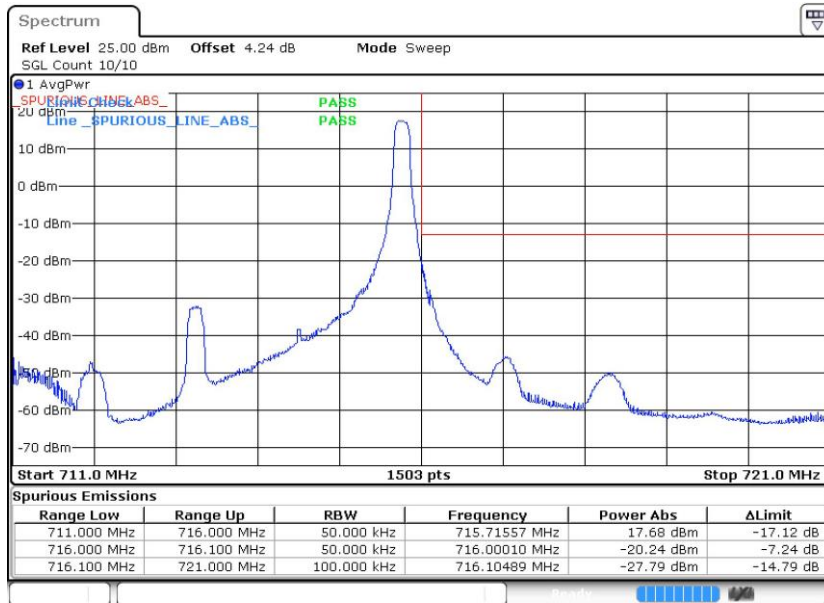
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Band12-3MHz-QPSK-23025-15RB#0



Band12-3MHz-QPSK-23165-1RB#14



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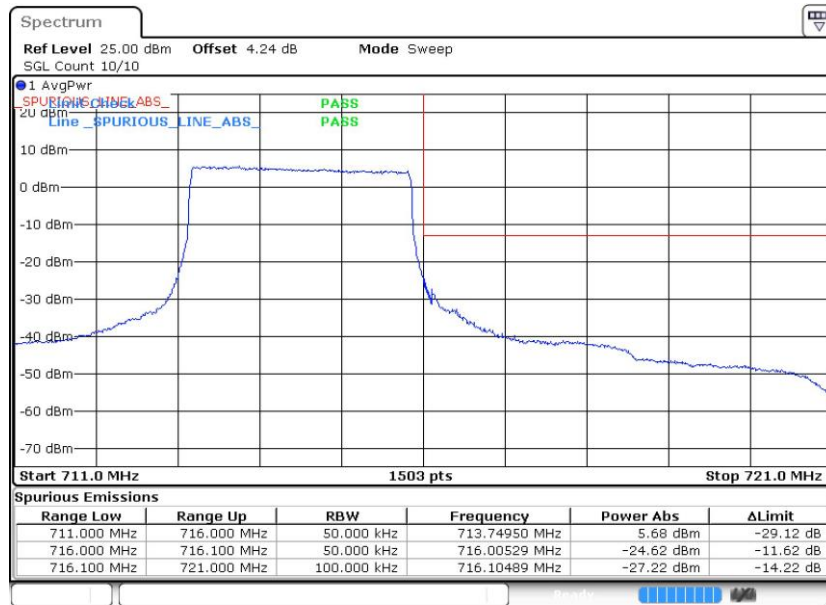
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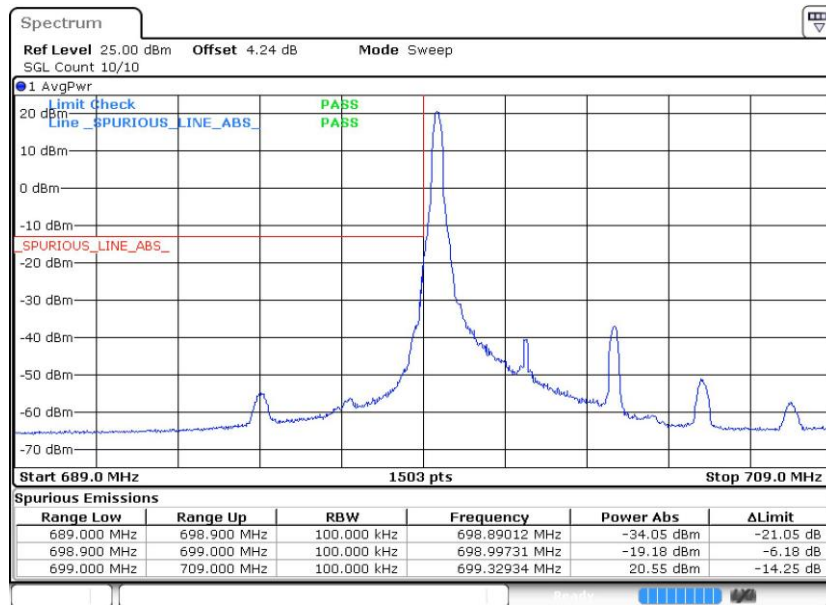
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Band12-3MHz-QPSK-23165-15RB#0



Band12-5MHz-QPSK-23035-1RB#0



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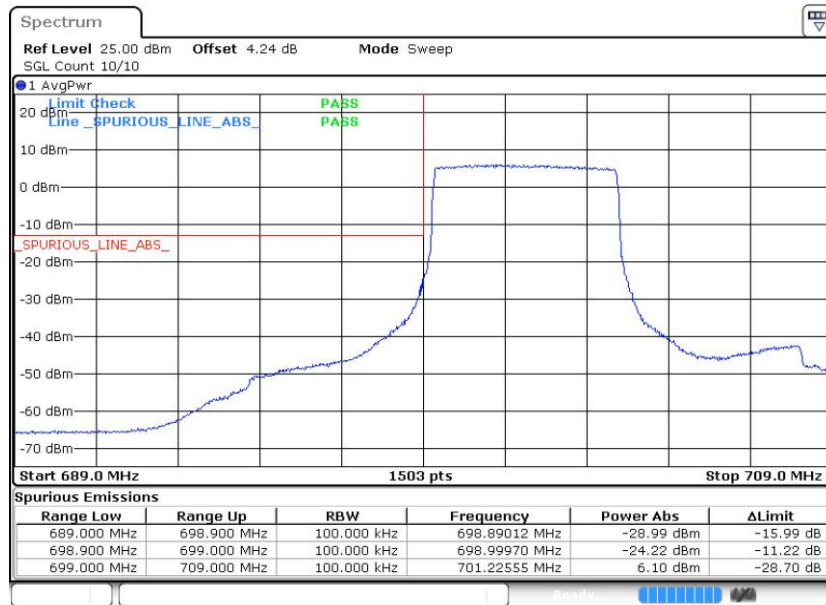
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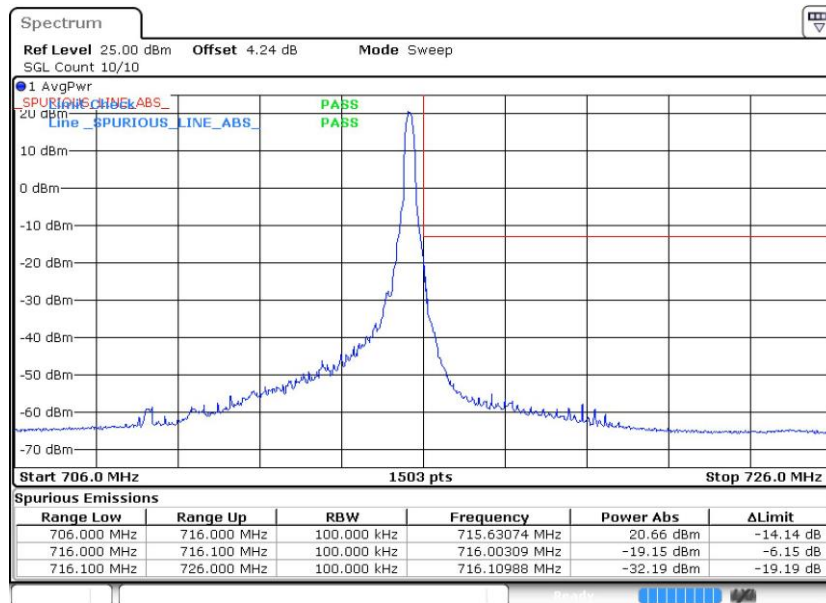
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Band12-5MHz-QPSK-23035-25RB#0



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Band12-5MHz-QPSK-23155-1RB#24



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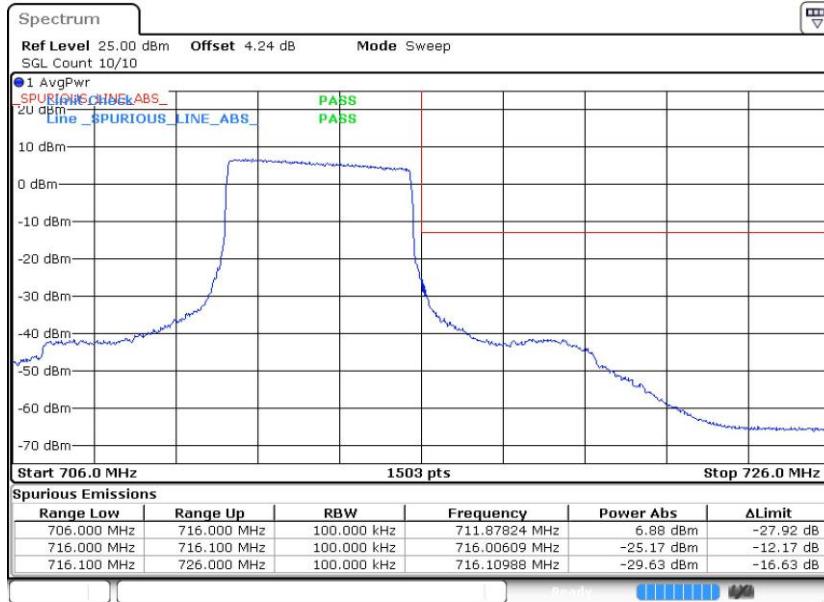
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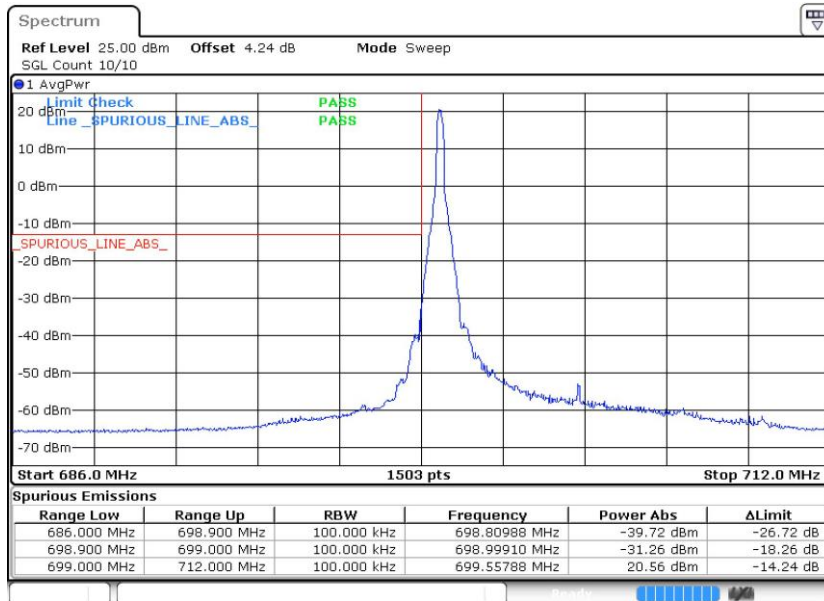
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Band12-5MHz-QPSK-23155-25RB#0



Band12-10MHz-QPSK-23060-1RB#0



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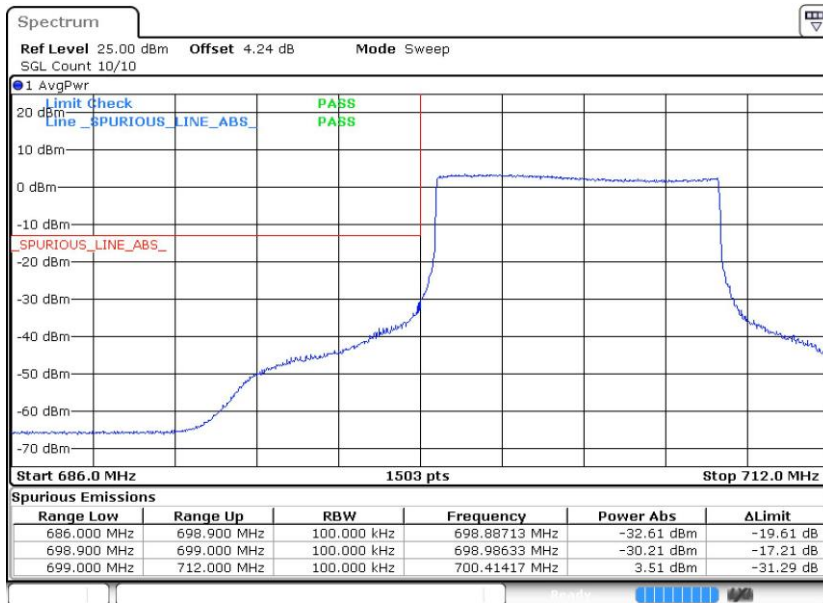
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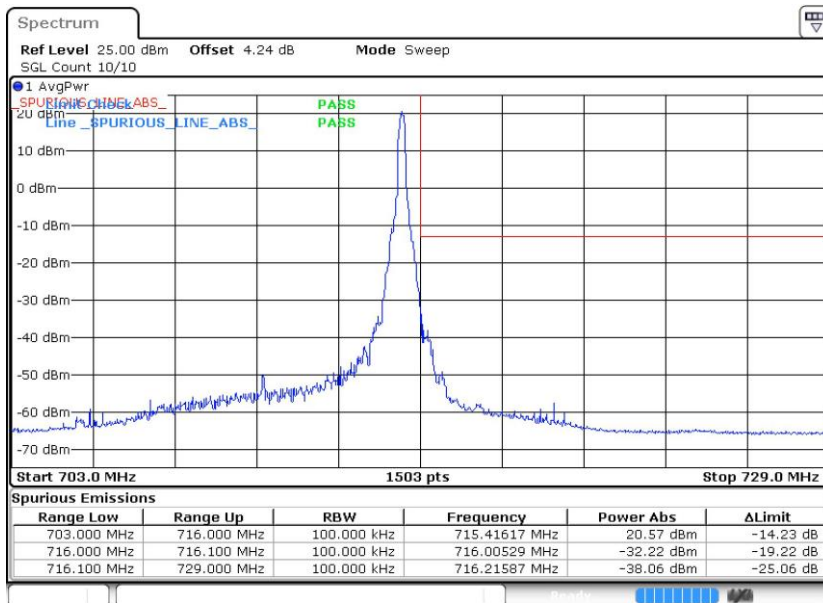
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Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23130-1RB#49



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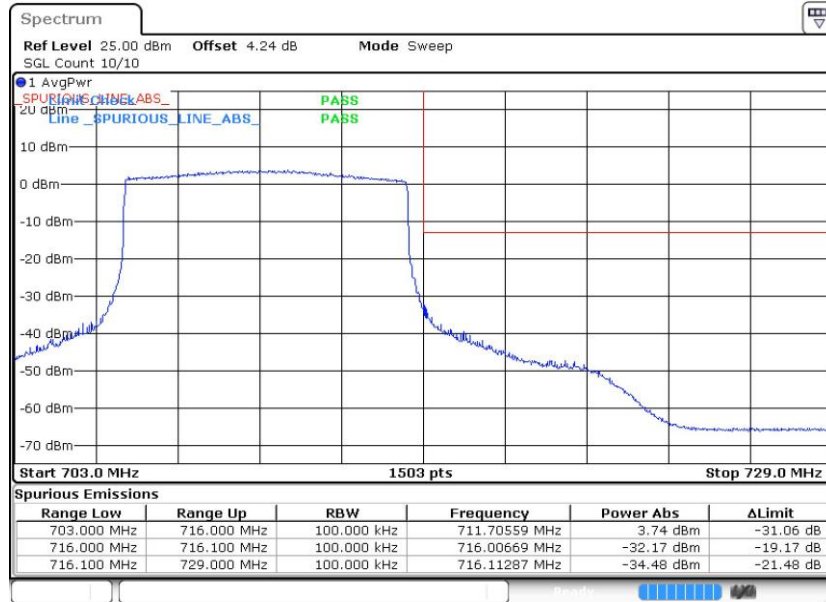
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Band12-10MHz-QPSK-23130-50RB#0



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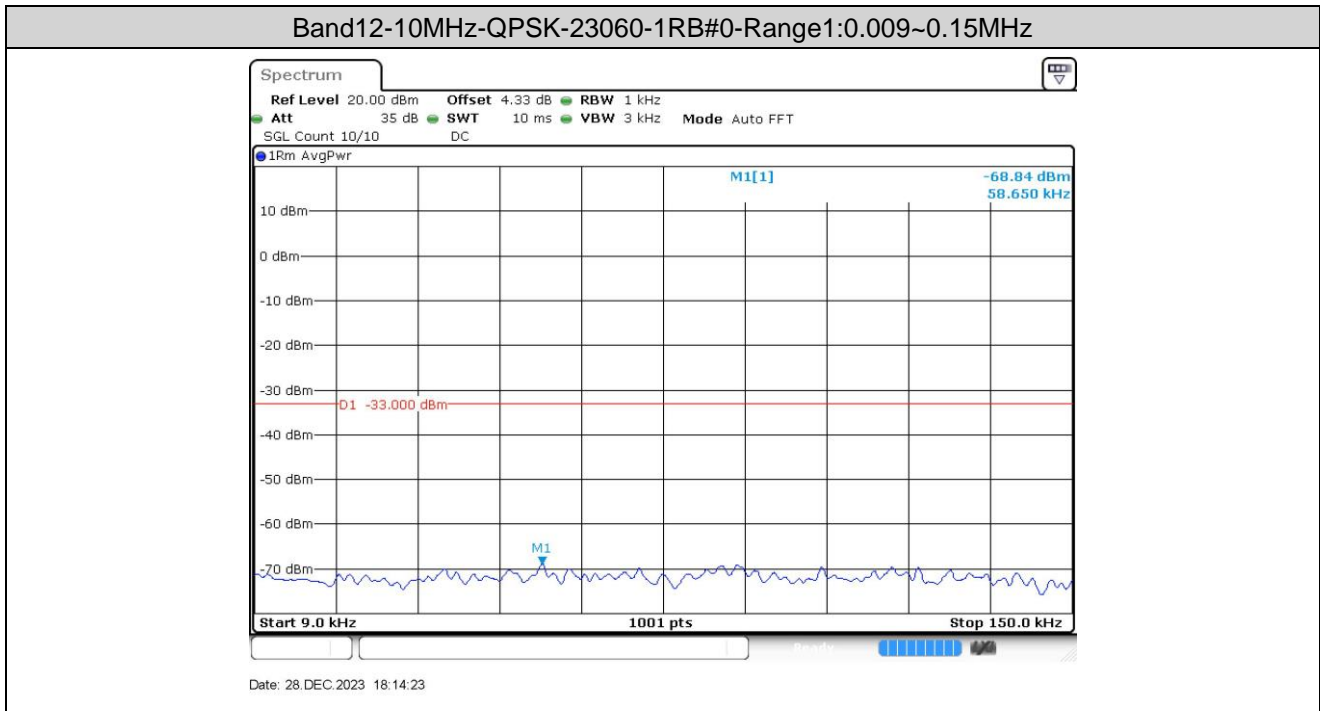


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Conducted Spurious Emission

Test Graphs



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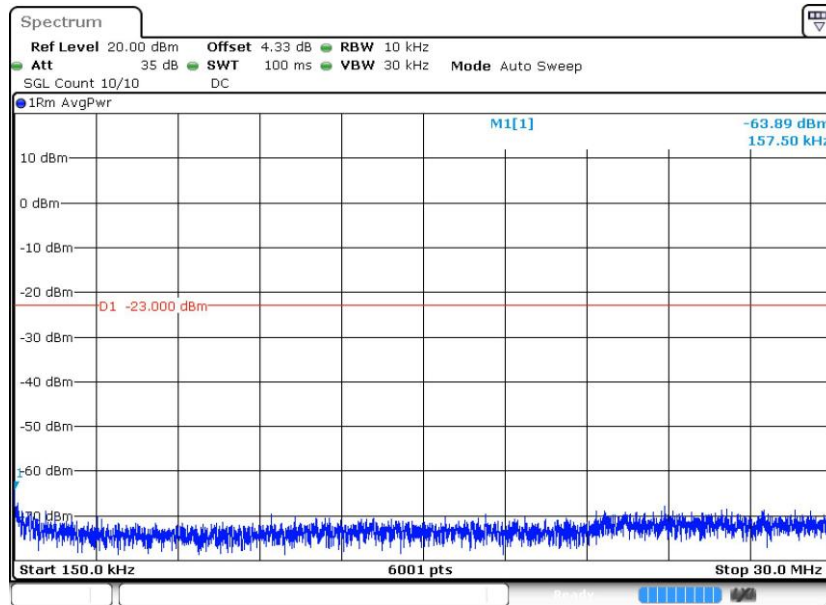
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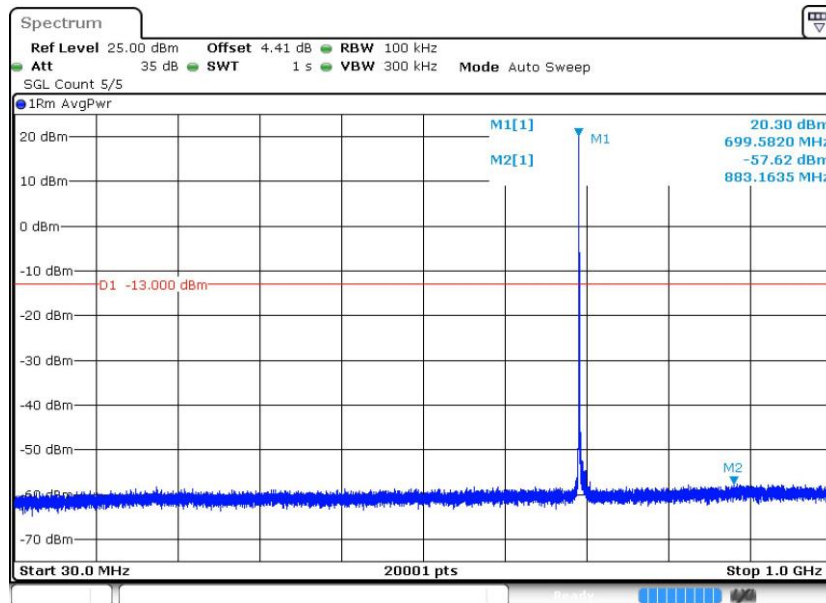
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Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



Date: 28 DEC 2023 18:14:28

Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



Date: 28 DEC 2023 18:14:37



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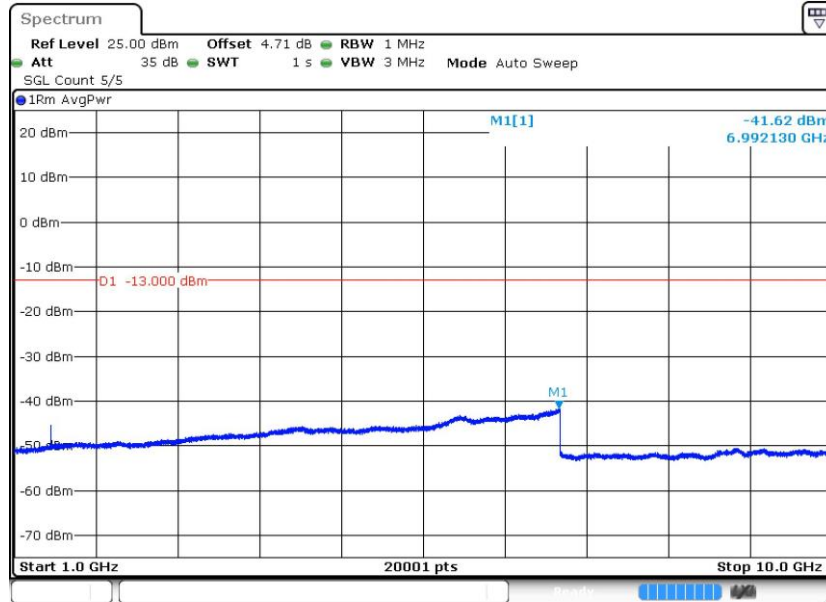
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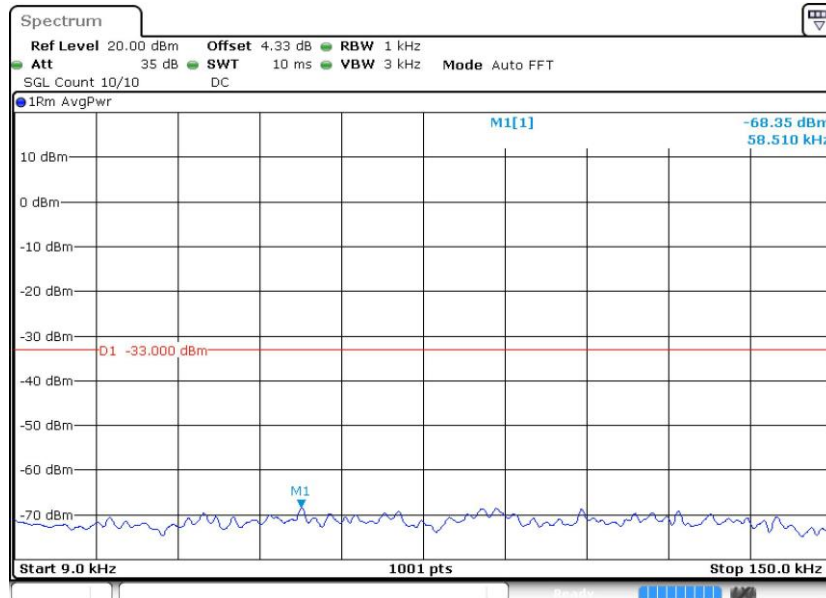
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Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



Date: 28.DEC.2023 18:14:46

Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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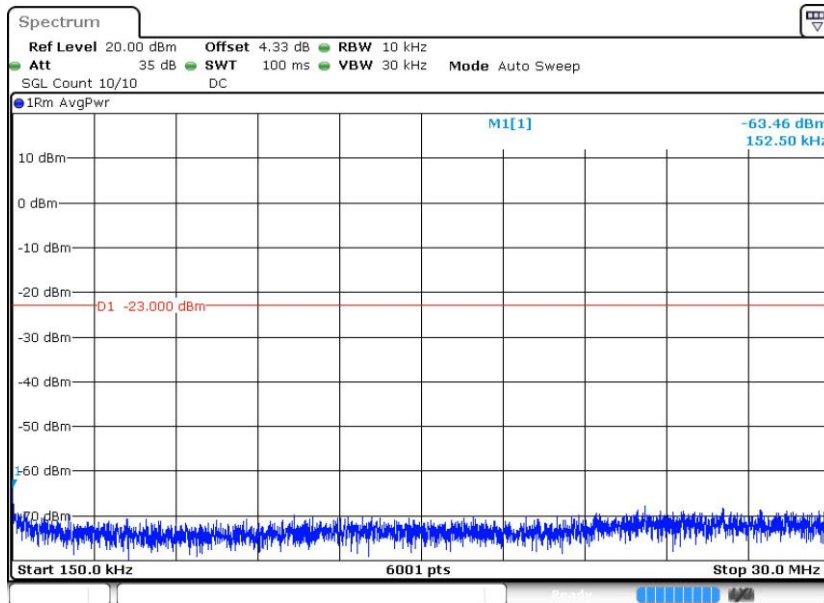
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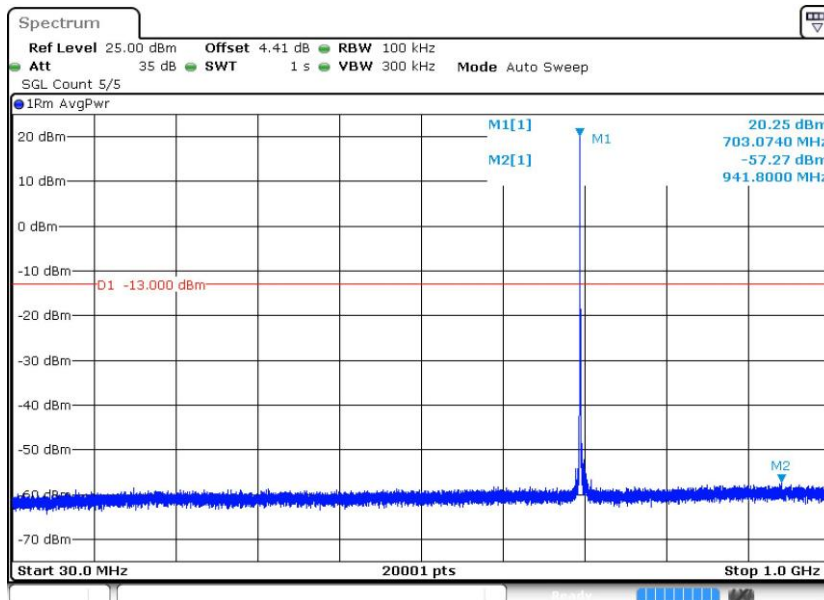
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Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



Date: 28.DEC.2023 18:15:03

Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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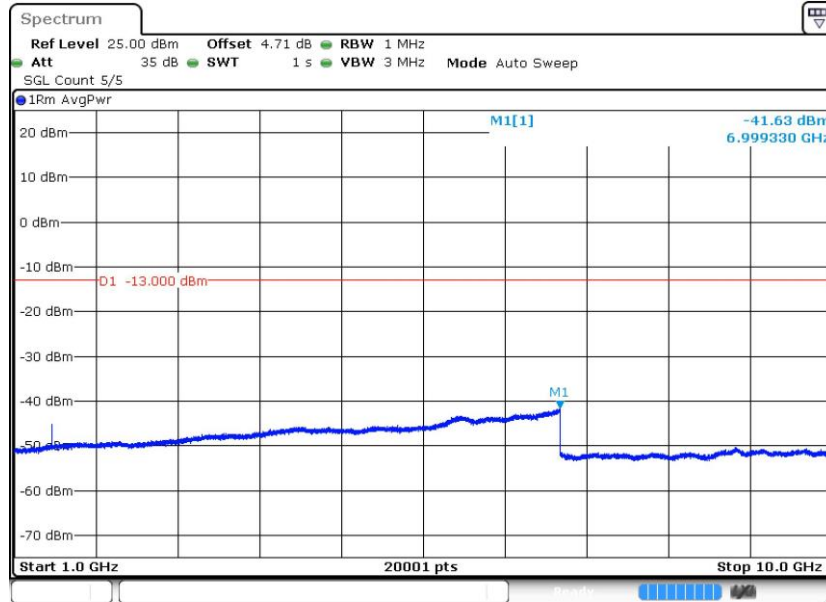
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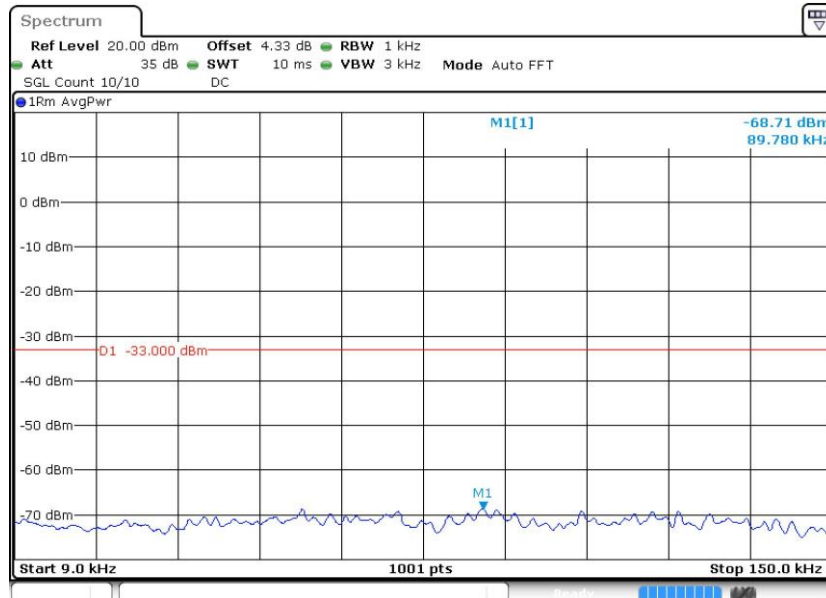
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Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



Date: 28.DEC.2023 18:15:21

Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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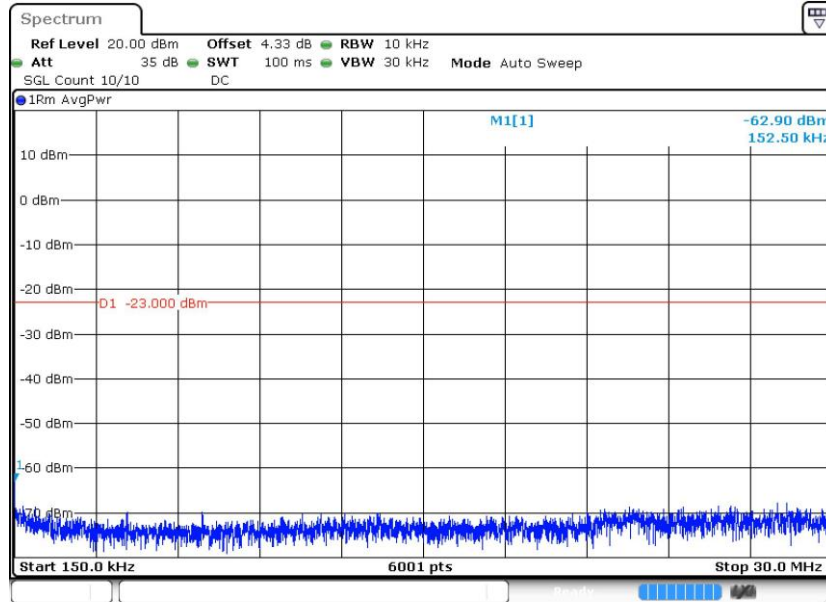
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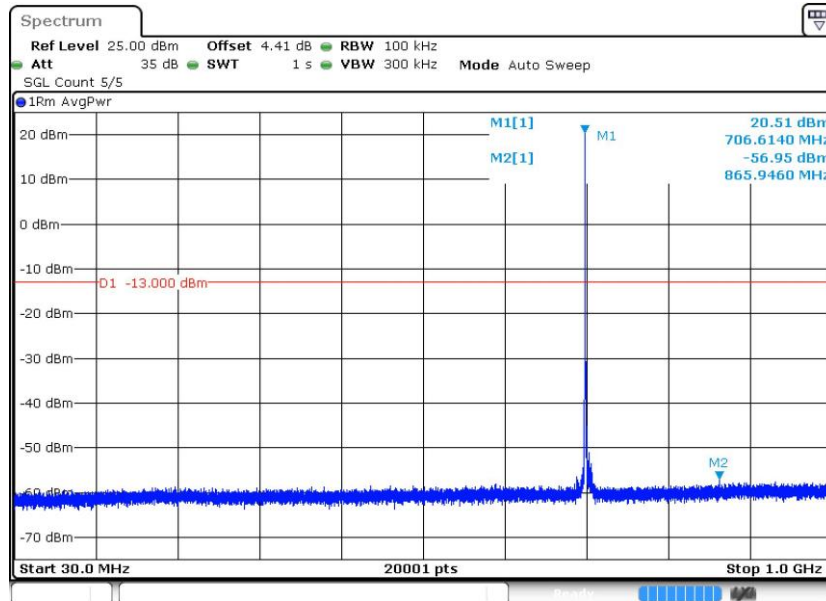
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Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



Date: 28 DEC. 2023 18:15:38

Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



Date: 28 DEC. 2023 18:15:48



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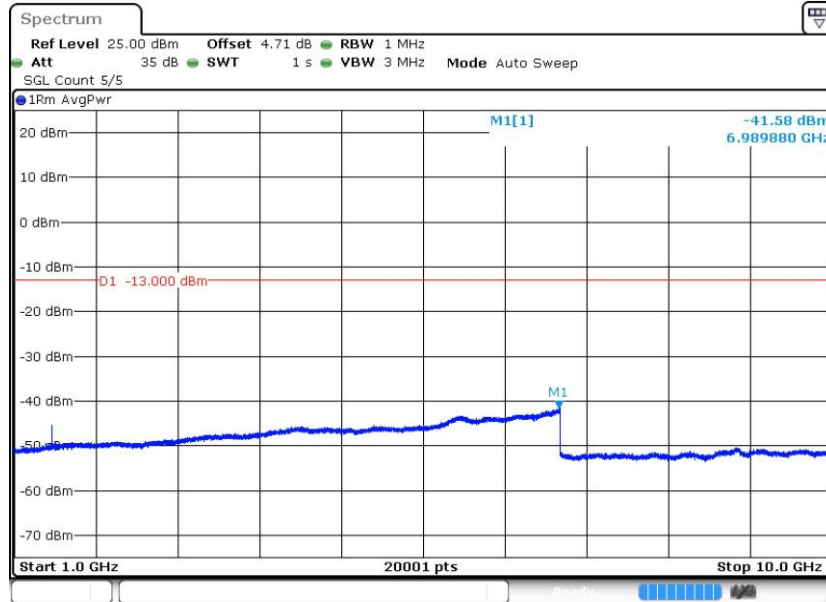
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Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = B12_ TM1

Test Channel = Low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.9125	49.41	24.20	-49.12	-70.77	-13.00	57.77	Horizontal
2	2098.625	48.02	26.44	-48.18	-68.98	-13.00	55.98	Horizontal
3	2798.0000	44.95	28.12	-47.31	-69.50	-13.00	56.50	Horizontal
4	3497.5000	44.80	28.70	-47.38	-69.14	-13.00	56.14	Horizontal
5	4197.0000	44.48	29.78	-47.13	-68.13	-13.00	55.13	Horizontal
6	4896.5000	45.47	31.15	-47.02	-65.66	-13.00	52.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.0000	47.14	24.20	-49.12	-73.04	-13.00	60.04	Vertical
2	2098.5000	46.82	26.44	-48.18	-70.18	-13.00	57.18	Vertical
3	2798.0000	45.96	28.12	-47.31	-68.49	-13.00	55.49	Vertical
4	3497.5000	44.86	28.70	-47.38	-69.08	-13.00	56.08	Vertical
5	4197.0000	44.33	29.78	-47.13	-68.28	-13.00	55.28	Vertical
6	4896.5000	44.81	31.15	-47.02	-66.32	-13.00	53.32	Vertical



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Test Band = B12_TM1
Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.9625	49.72	24.22	-49.11	-70.43	-13.00	57.43	Horizontal
2	2109.0000	45.85	26.46	-48.19	-71.14	-13.00	58.14	Horizontal
3	2812.0000	44.35	28.15	-47.34	-70.10	-13.00	57.10	Horizontal
4	3515.0000	44.60	28.72	-47.43	-69.37	-13.00	56.37	Horizontal
5	4218.0000	44.63	29.81	-47.11	-67.93	-13.00	54.93	Horizontal
6	4921.0000	44.46	31.21	-47.00	-66.59	-13.00	53.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.9625	48.88	24.22	-49.11	-71.27	-13.00	58.27	Vertical
2	2109.0000	45.78	26.46	-48.19	-71.21	-13.00	58.21	Vertical
3	2812.0000	44.67	28.15	-47.34	-69.78	-13.00	56.78	Vertical
4	3515.0000	44.55	28.72	-47.43	-69.42	-13.00	56.42	Vertical
5	4218.0000	44.15	29.81	-47.11	-68.41	-13.00	55.41	Vertical
6	4921.0000	44.25	31.21	-47.00	-66.80	-13.00	53.80	Vertical



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Test Band = B12_TM1
Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0125	50.58	24.24	-49.11	-69.55	-13.00	56.55	Horizontal
2	2119.775	47.21	26.49	-48.22	-69.78	-13.00	56.78	Horizontal
3	2826.0000	44.28	28.18	-47.39	-70.19	-13.00	57.19	Horizontal
4	3532.5000	44.40	28.75	-47.50	-69.61	-13.00	56.61	Horizontal
5	4239.0000	44.47	29.84	-47.10	-68.05	-13.00	55.05	Horizontal
6	4945.5000	44.66	31.27	-46.98	-66.31	-13.00	53.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0125	49.40	24.24	-49.11	-70.73	-13.00	57.73	Vertical
2	2119.5000	46.88	26.49	-48.22	-70.11	-13.00	57.11	Vertical
3	2826.0000	45.47	28.18	-47.39	-69.00	-13.00	56.00	Vertical
4	3532.5000	44.68	28.75	-47.50	-69.33	-13.00	56.33	Vertical
5	4239.0000	44.35	29.84	-47.10	-68.17	-13.00	55.17	Vertical
6	4945.5000	44.52	31.27	-46.98	-66.45	-13.00	53.45	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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.80	0.002544	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	1.40	0.001979	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.40	-0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	2.10	0.002968	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.20	0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.80	-0.001131	PASS

---End of Attachment---



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