



Test Report No.: W7L-240204W001RF03

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 Appendix

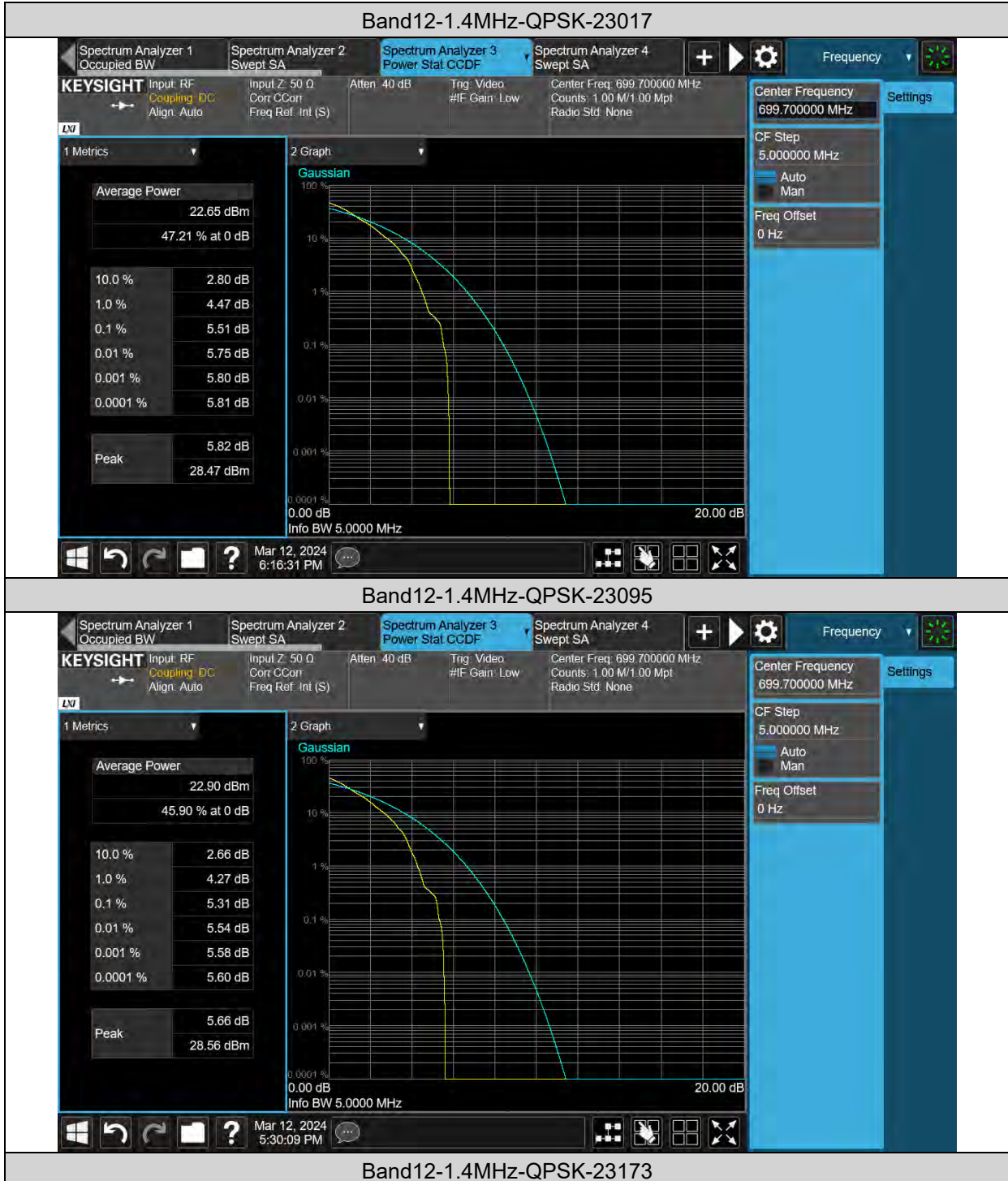
CAT-M: LTE BAND12

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	5.51	13	PASS
Band12	1.4MHz	QPSK	23017	5.31	13	PASS
Band12	1.4MHz	QPSK	23173	5.50	13	PASS
Band12	1.4MHz	16QAM	23095	6.88	13	PASS
Band12	1.4MHz	16QAM	23017	6.90	13	PASS
Band12	1.4MHz	16QAM	23173	6.84	13	PASS
Band12	3MHz	QPSK	23025	6.06	13	PASS
Band12	3MHz	QPSK	23095	6.69	13	PASS
Band12	3MHz	QPSK	23165	6.29	13	PASS
Band12	3MHz	16QAM	23025	6.81	13	PASS
Band12	3MHz	16QAM	23095	7.42	13	PASS
Band12	3MHz	16QAM	23165	7.10	13	PASS
Band12	5MHz	QPSK	23035	6.64	13	PASS
Band12	5MHz	QPSK	23095	6.75	13	PASS
Band12	5MHz	QPSK	23155	7.06	13	PASS
Band12	5MHz	16QAM	23035	7.48	13	PASS
Band12	5MHz	16QAM	23095	6.98	13	PASS
Band12	5MHz	16QAM	23155	7.63	13	PASS
Band12	10MHz	QPSK	23060	7.27	13	PASS
Band12	10MHz	QPSK	23095	6.56	13	PASS
Band12	10MHz	QPSK	23130	6.81	13	PASS
Band12	10MHz	16QAM	23060	7.68	13	PASS
Band12	10MHz	16QAM	23095	7.19	13	PASS
Band12	10MHz	16QAM	23130	6.72	13	PASS

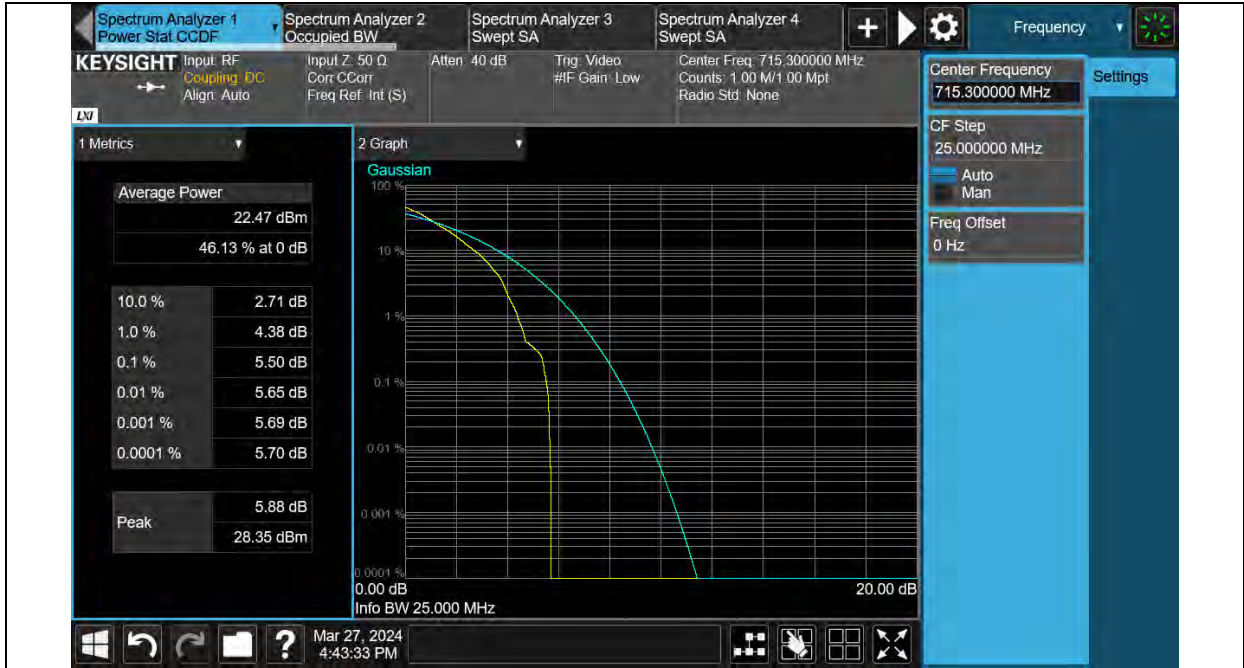
Test Graphs



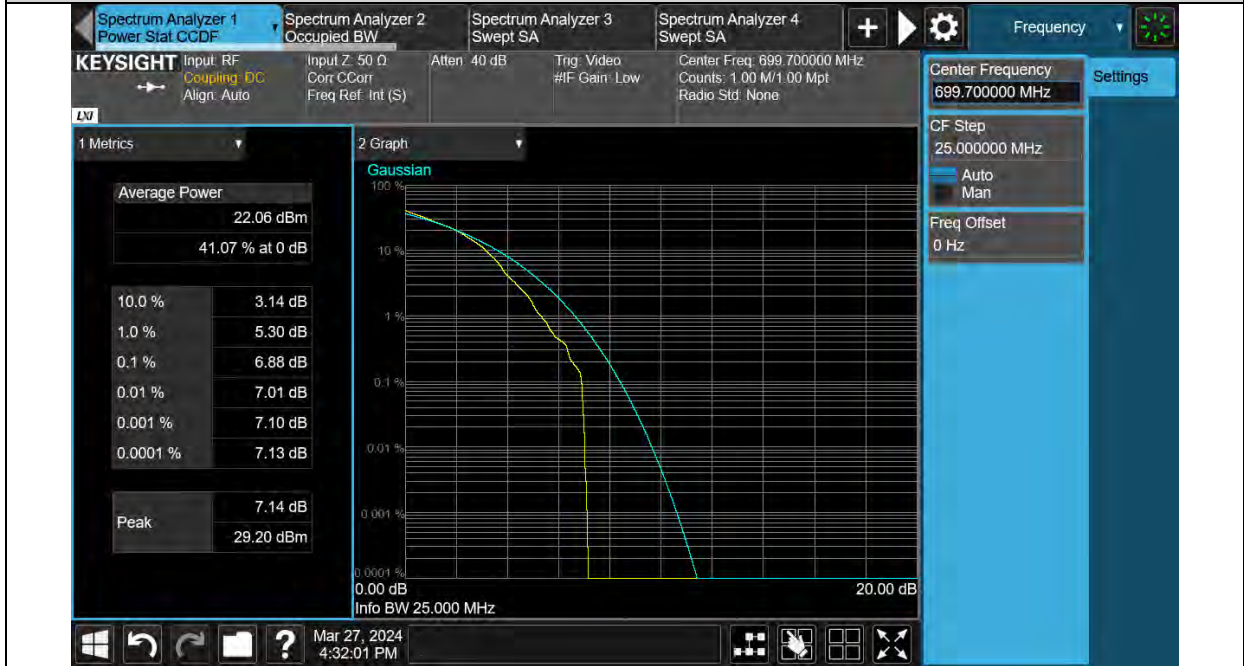


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Band12-1.4MHz-16QAM-23017



Band12-1.4MHz-16QAM-23095

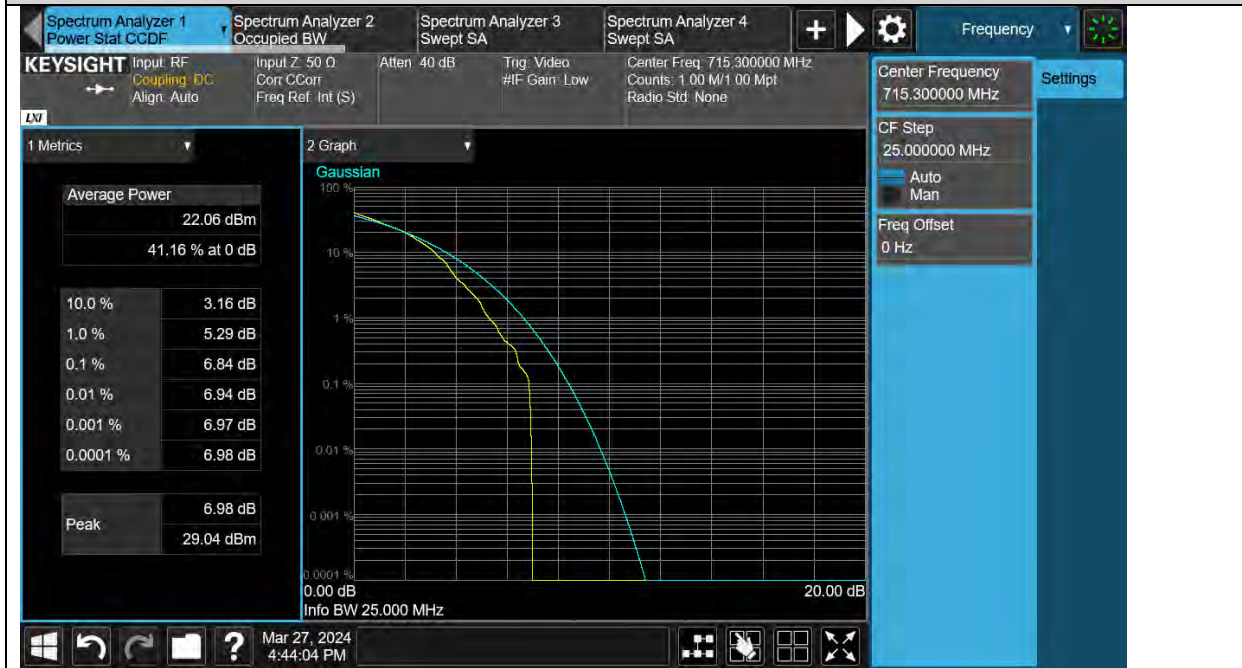


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Band12-1.4MHz-16QAM-23173

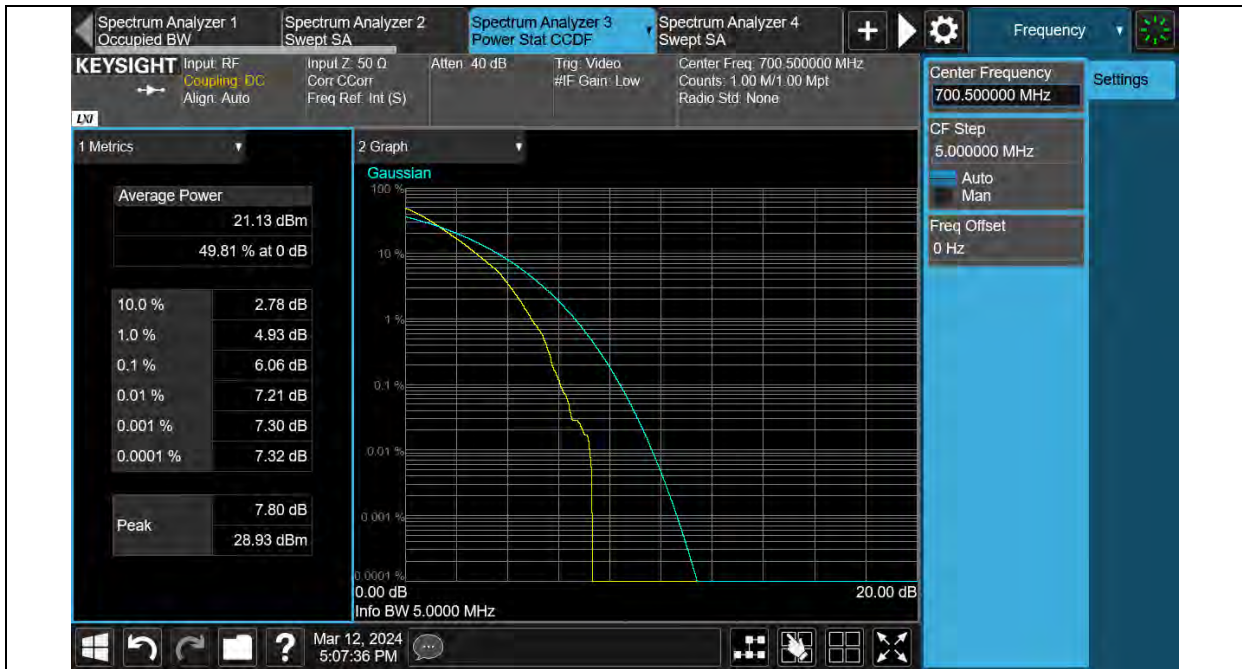


Band12-3MHz-QPSK-23025



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Band12-3MHz-QPSK-23095

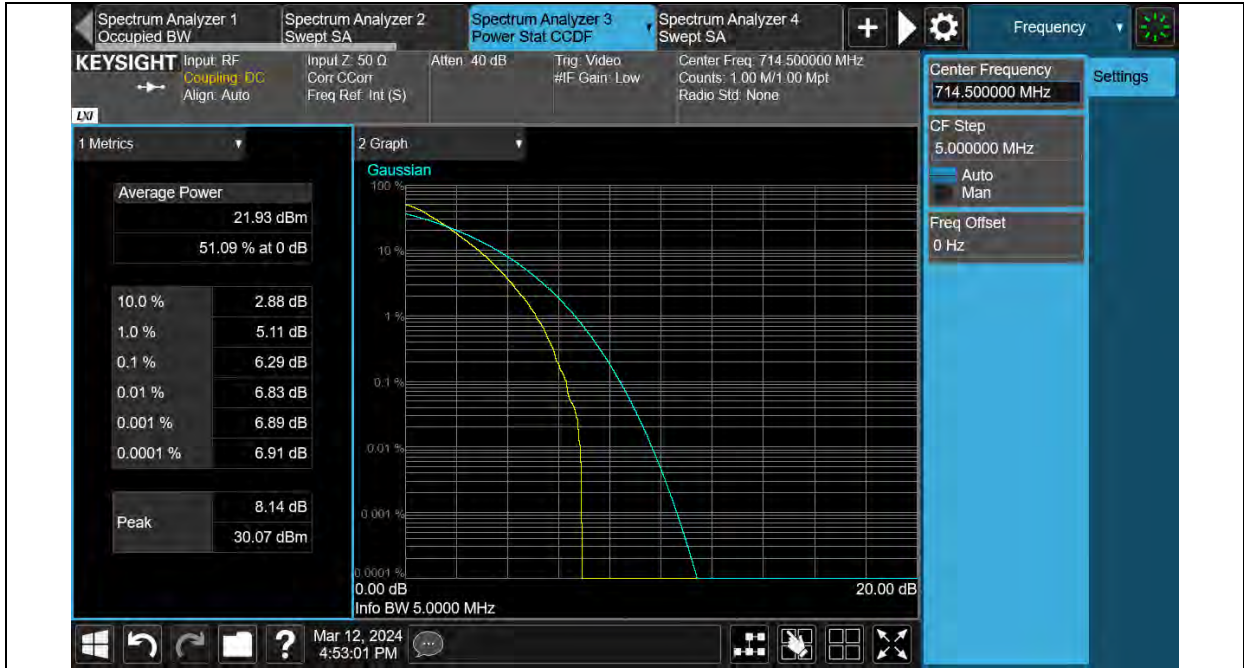


Band12-3MHz-QPSK-23165

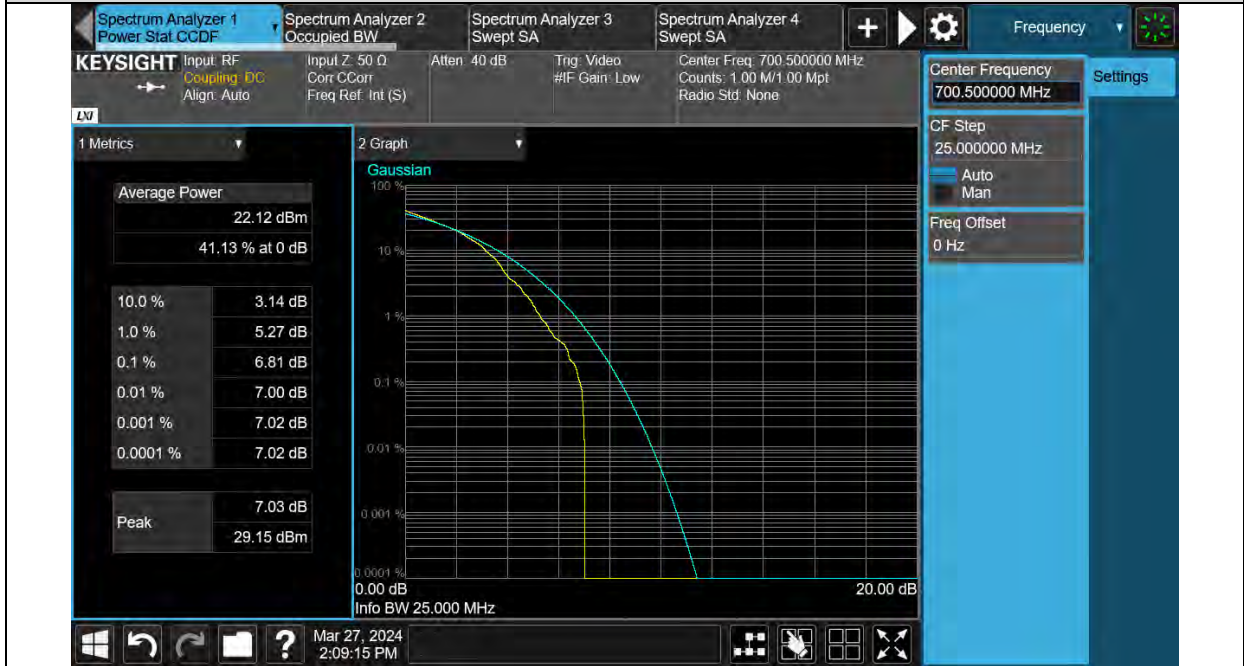


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Band12-3MHz-16QAM-23025

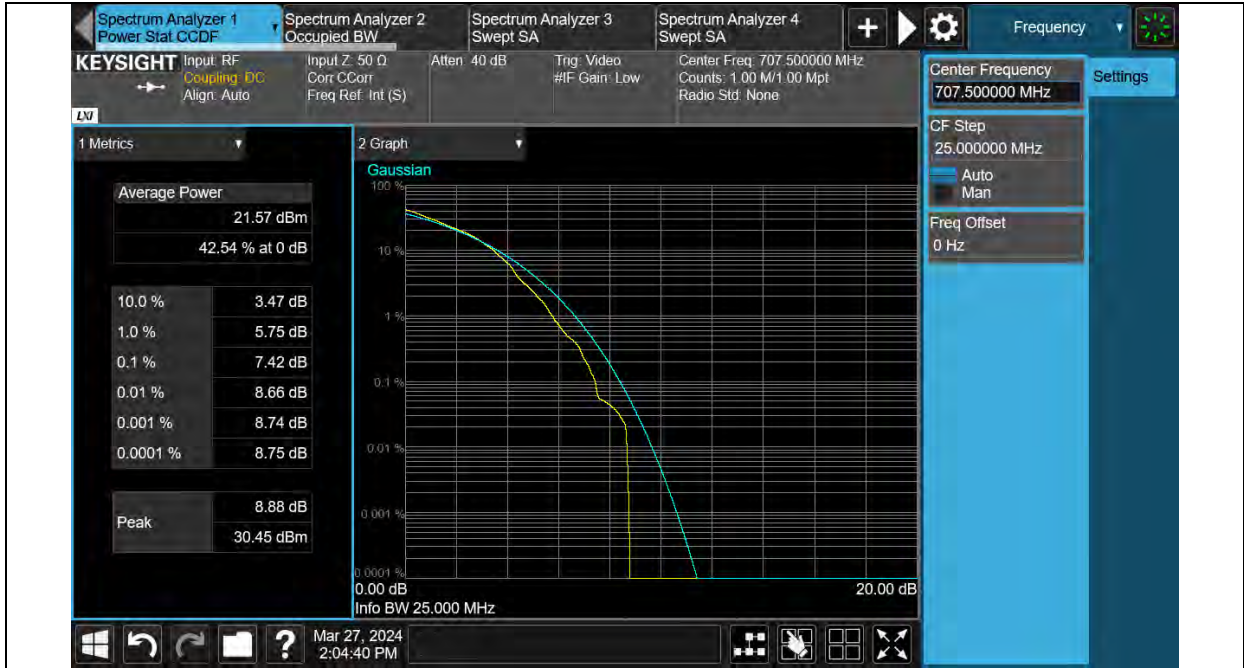


Band12-3MHz-16QAM-23095

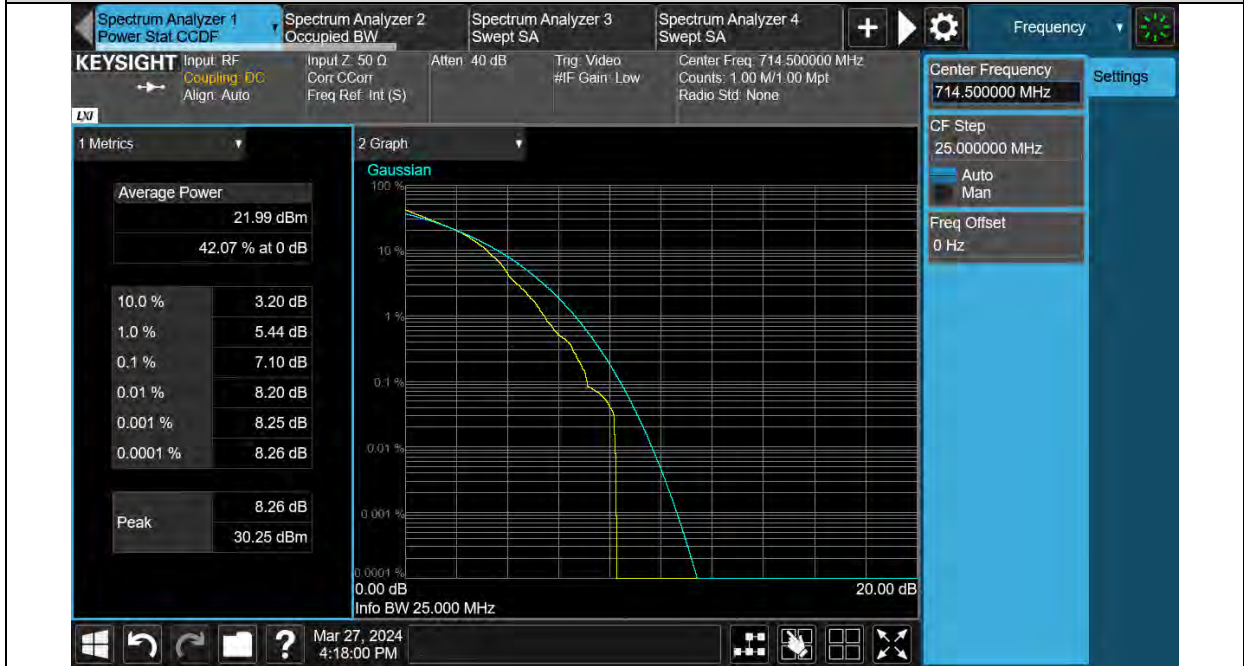


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Band 12-3MHz-16QAM-23165

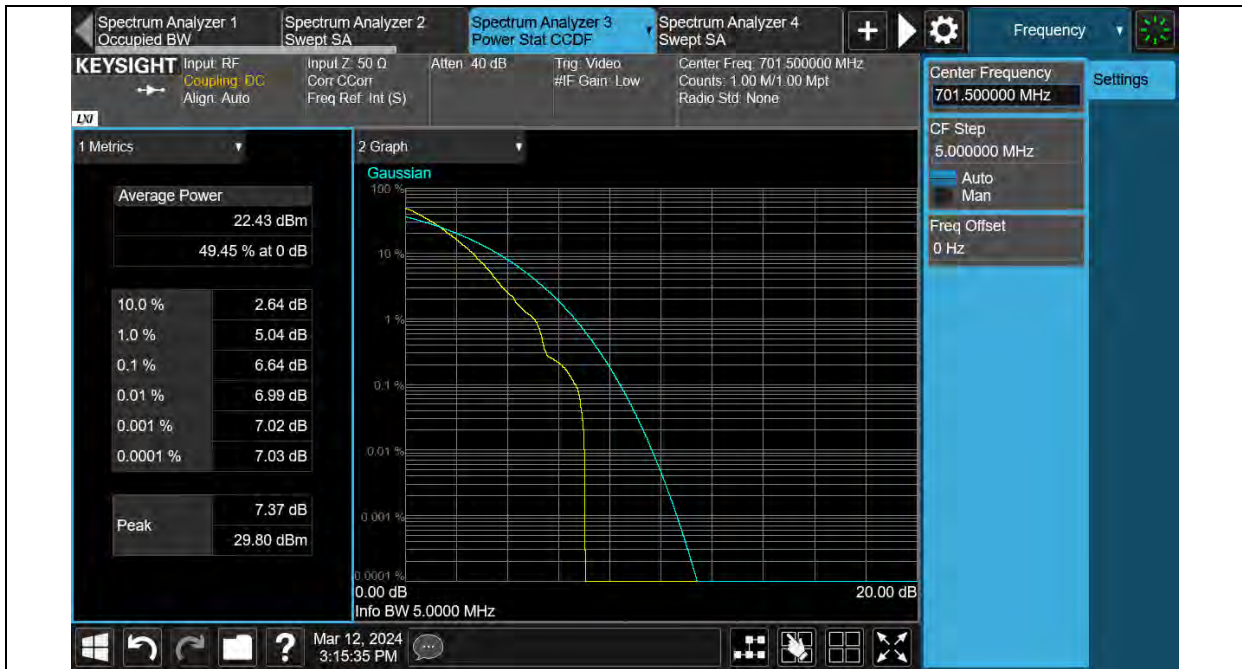


Band 12-5MHz-QPSK-23035



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Band12-5MHz-QPSK-23095

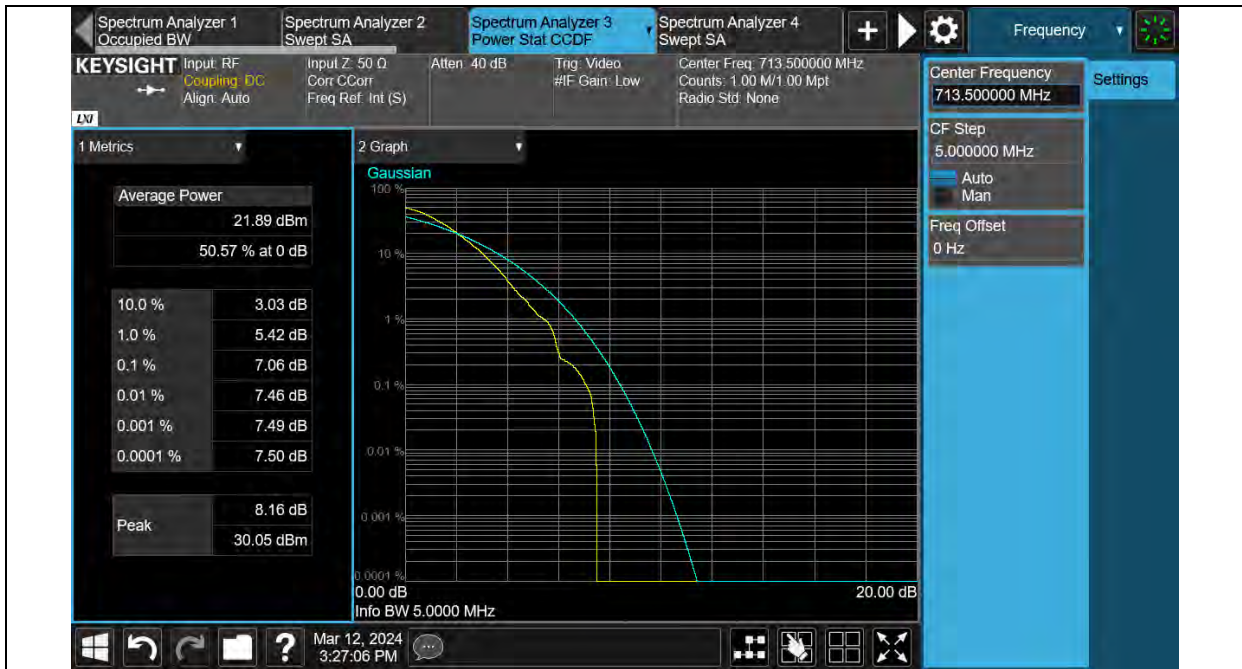


Band12-5MHz-QPSK-23155

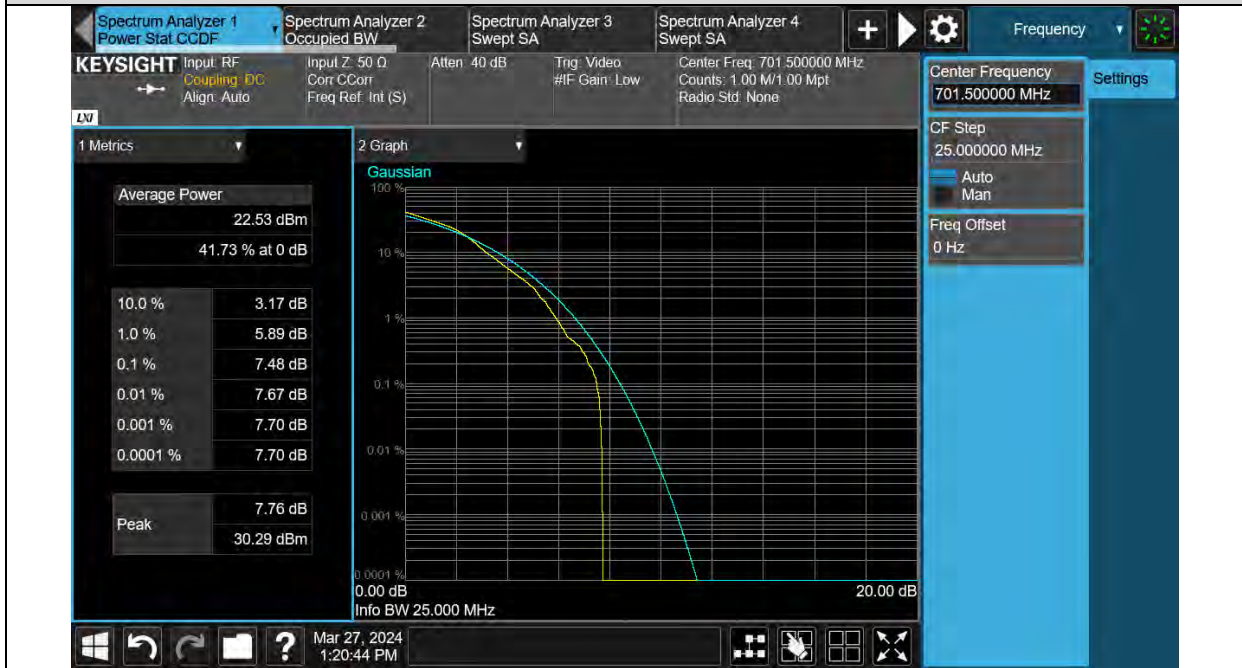


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Test Report No.: W7L-240204W001RF03



Band12-5MHz-16QAM-23035

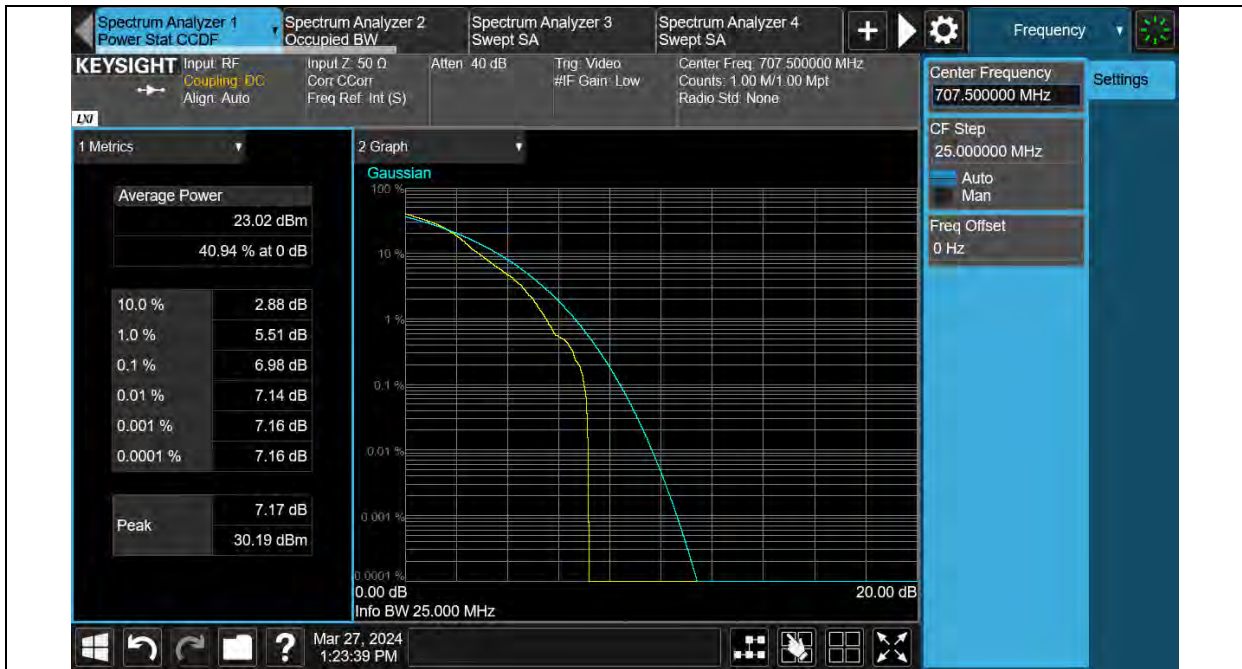


Band12-5MHz-16QAM-23095

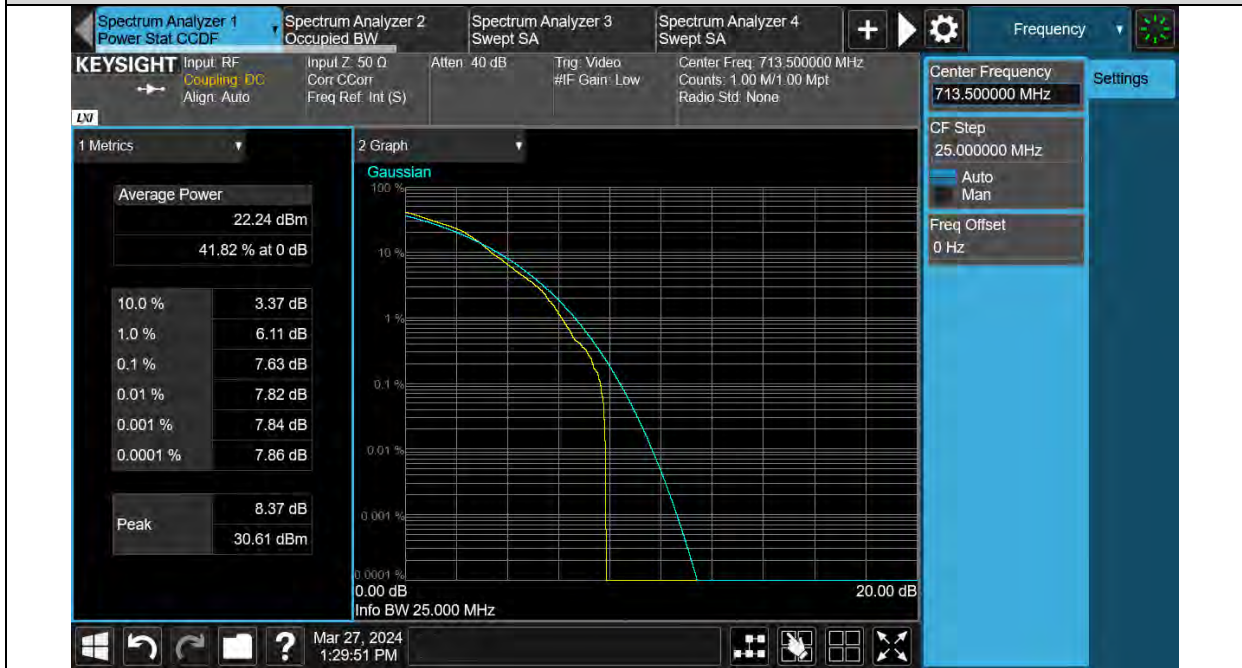


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Band 12-5MHz-16QAM-23155



Band 12-10MHz-QPSK-23060



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Band12-10MHz-QPSK-23095



Band12-10MHz-QPSK-23130

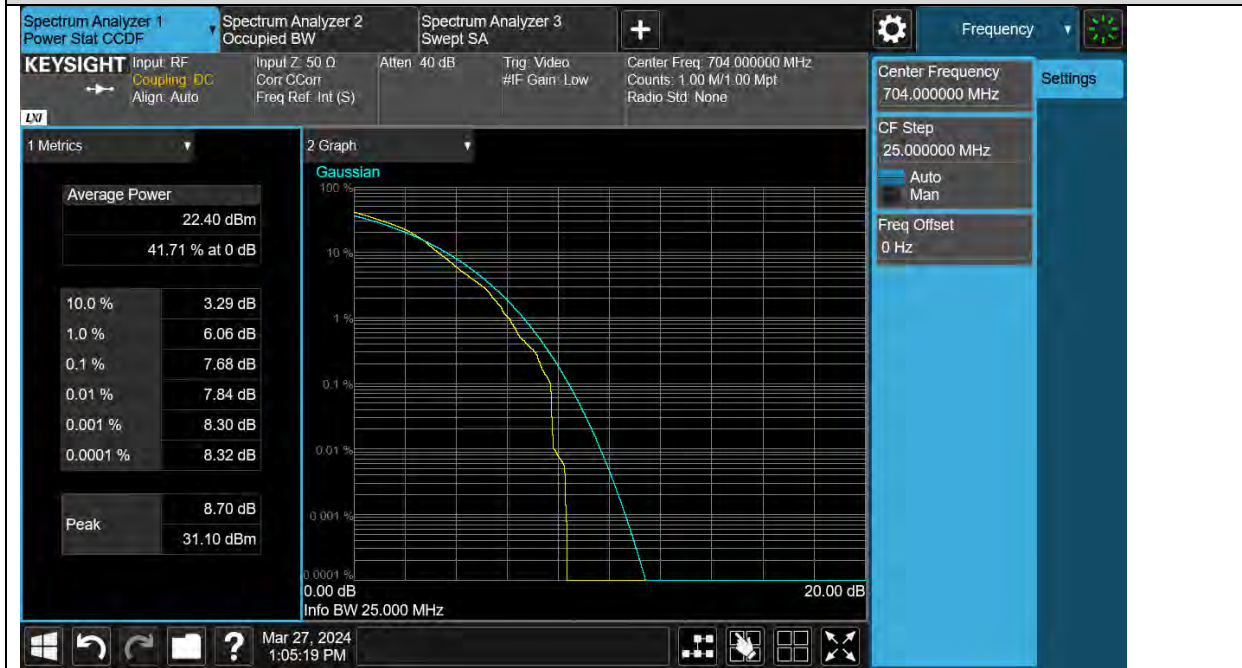


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Band12-10MHz-16QAM-23060

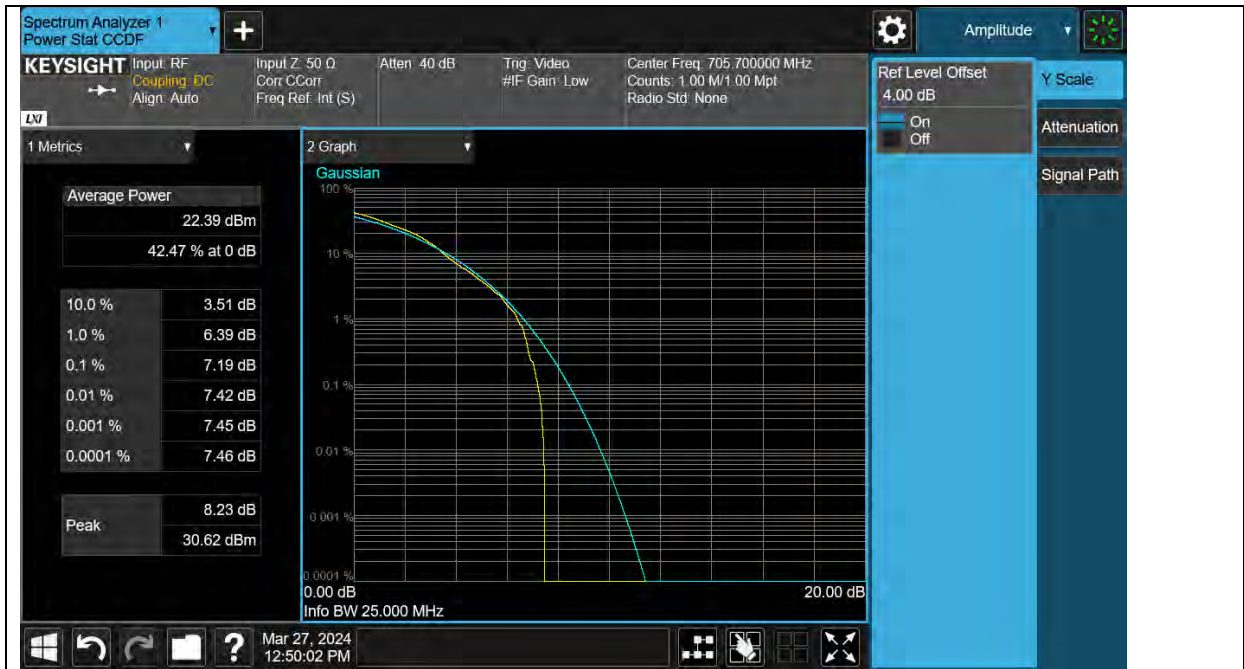


Band12-10MHz-16QAM-23095



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Band12-10MHz-16QAM-23130



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0689	1.271	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0802	1.260	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0806	1.248	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0755	1.271	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0721	1.256	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0736	1.263	PASS
Band12	3MHz	QPSK	23025	6RB#0	1.0785	1.263	PASS
Band12	3MHz	QPSK	23095	6RB#0	1.0692	1.273	PASS
Band12	3MHz	QPSK	23165	6RB#0	1.0815	1.263	PASS
Band12	3MHz	16QAM	23025	6RB#0	1.0705	1.265	PASS
Band12	3MHz	16QAM	23095	6RB#0	1.0583	1.262	PASS
Band12	3MHz	16QAM	23165	6RB#0	1.0735	1.259	PASS
Band12	5MHz	QPSK	23035	6RB#0	1.0818	1.264	PASS
Band12	5MHz	QPSK	23095	6RB#0	1.0809	1.263	PASS
Band12	5MHz	QPSK	23155	6RB#0	1.0787	1.260	PASS
Band12	5MHz	16QAM	23035	6RB#0	1.0752	1.287	PASS
Band12	5MHz	16QAM	23095	6RB#0	1.0804	1.291	PASS
Band12	5MHz	16QAM	23155	6RB#0	1.0756	1.279	PASS
Band12	10MHz	QPSK	23060	6RB#0	1.0617	1.161	PASS
Band12	10MHz	QPSK	23095	6RB#0	1.0746	1.252	PASS
Band12	10MHz	QPSK	23130	6RB#0	1.0551	1.200	PASS
Band12	10MHz	16QAM	23060	6RB#0	1.0742	1.278	PASS
Band12	10MHz	16QAM	23095	6RB#0	1.0713	1.280	PASS
Band12	10MHz	16QAM	23130	6RB#0	1.0717	1.271	PASS

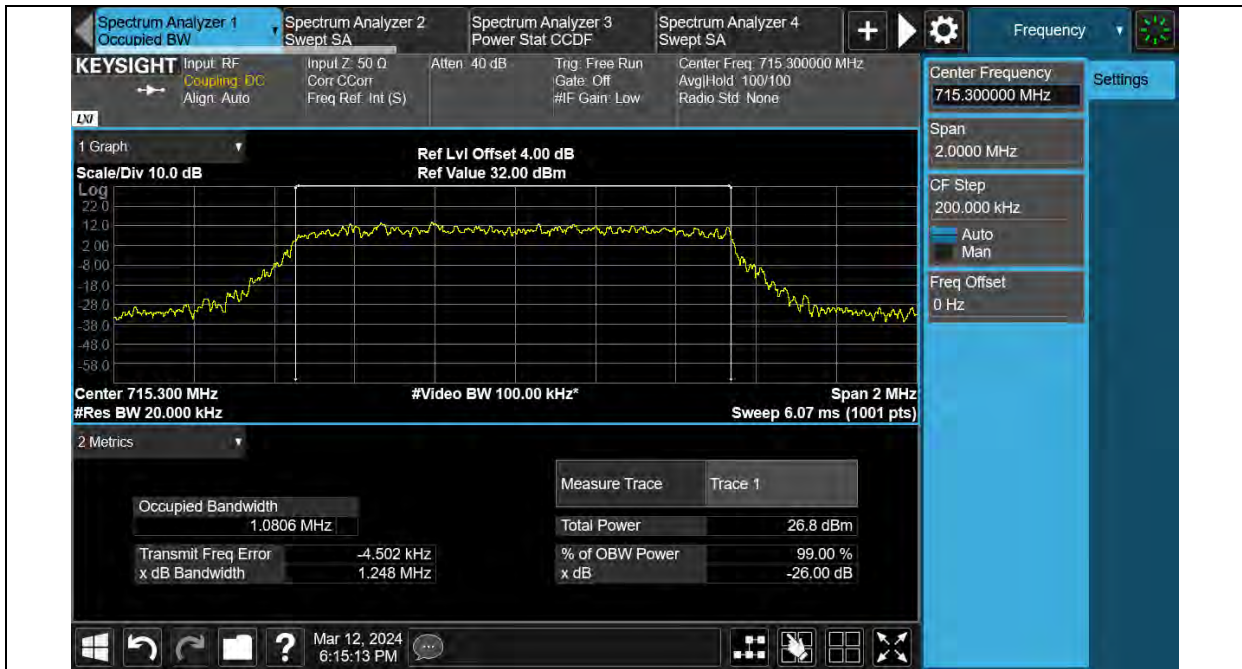
Test Graphs



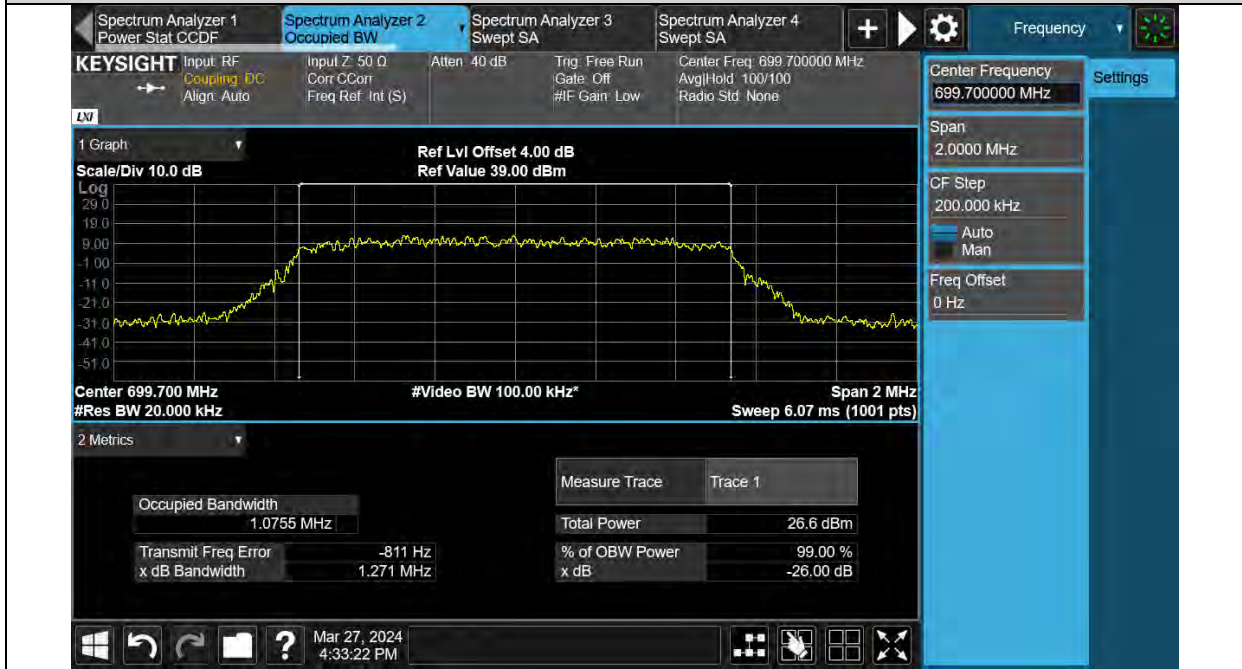


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Band 12-1.4MHz-16QAM-23017-6RB#0

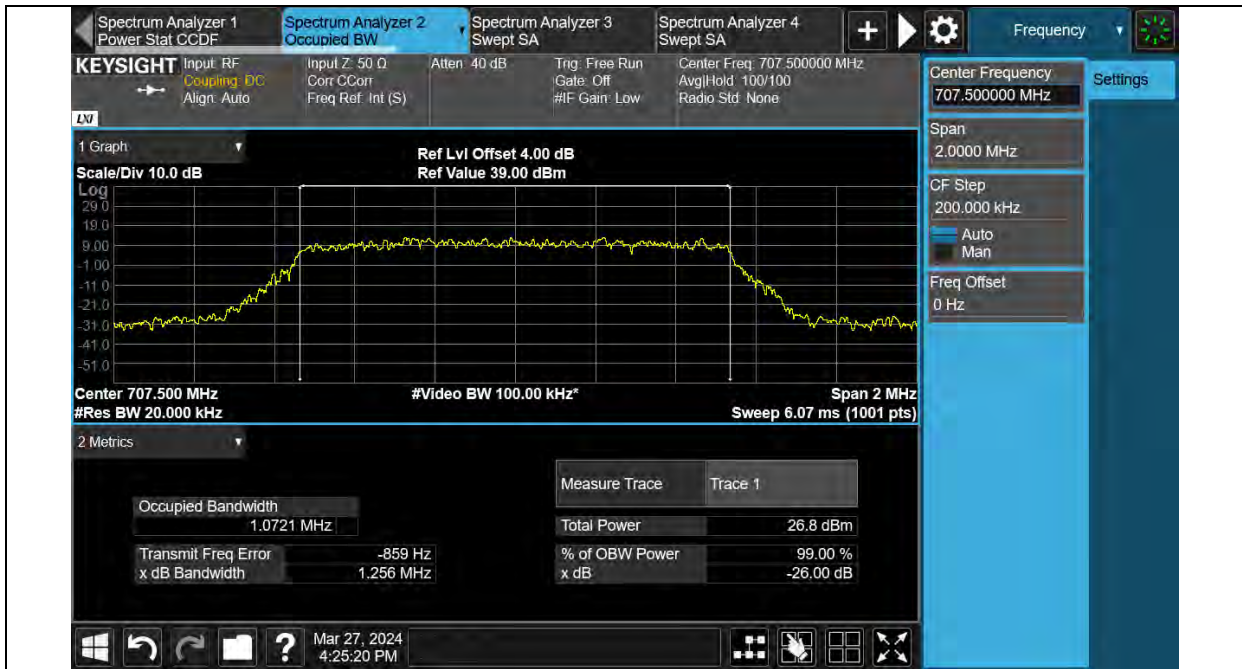


Band 12-1.4MHz-16QAM-23095-6RB#0

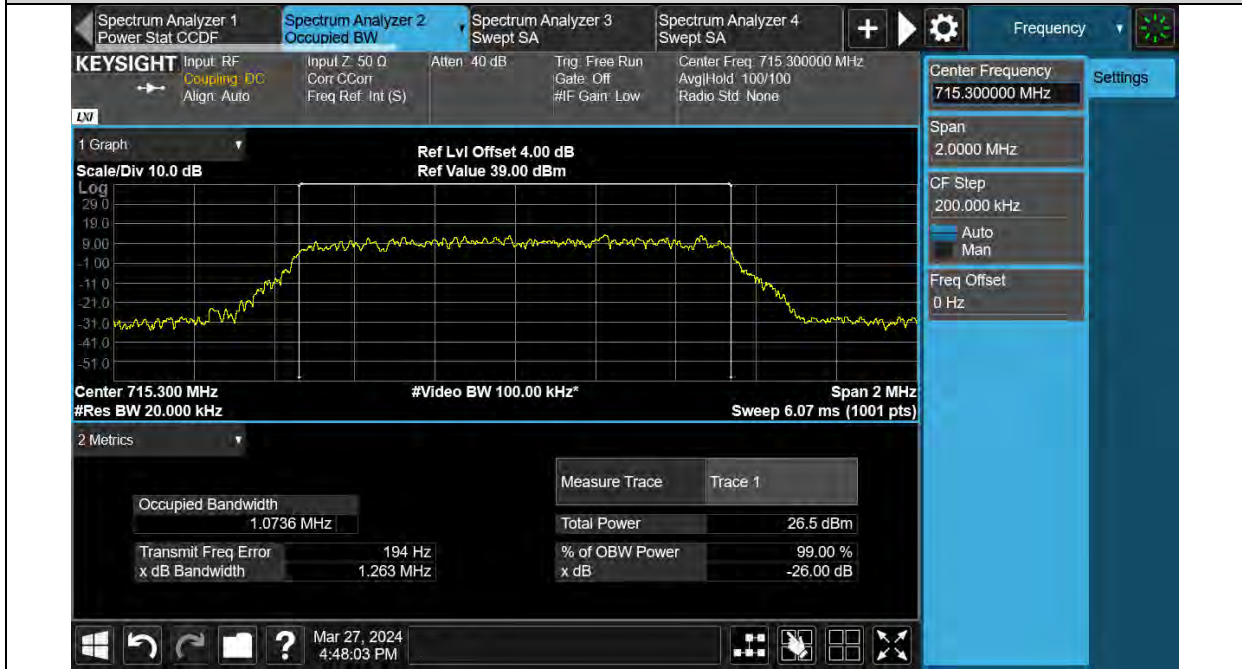


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Test Report No.: W7L-240204W001RF03



Band12-1.4MHz-16QAM-23173-6RB#0

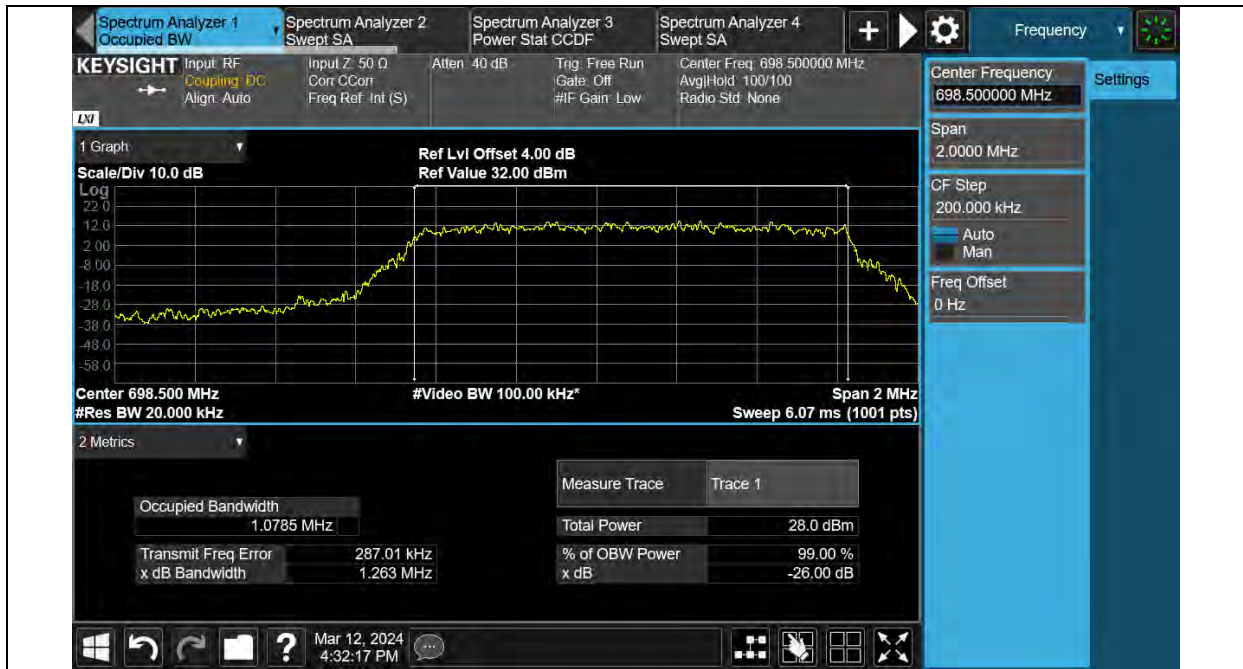


Band12-3MHz-QPSK-23025-15RB#0



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Band12-3MHz-QPSK-23095-15RB#0

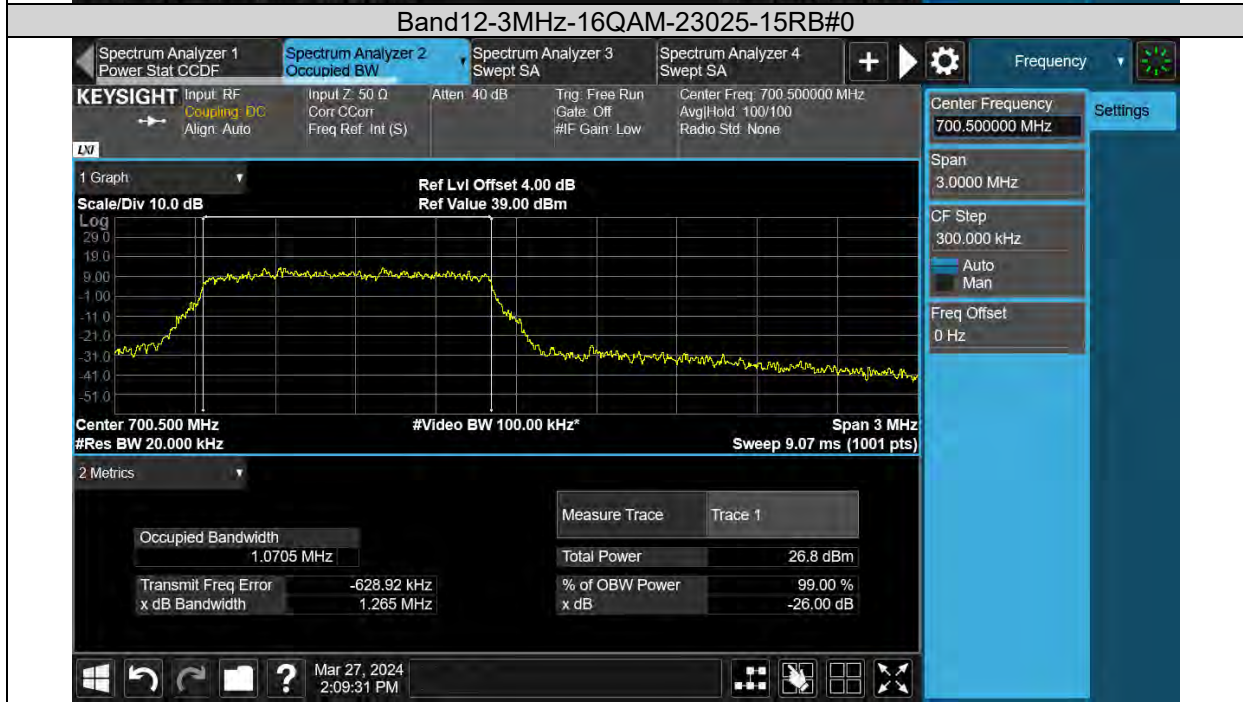
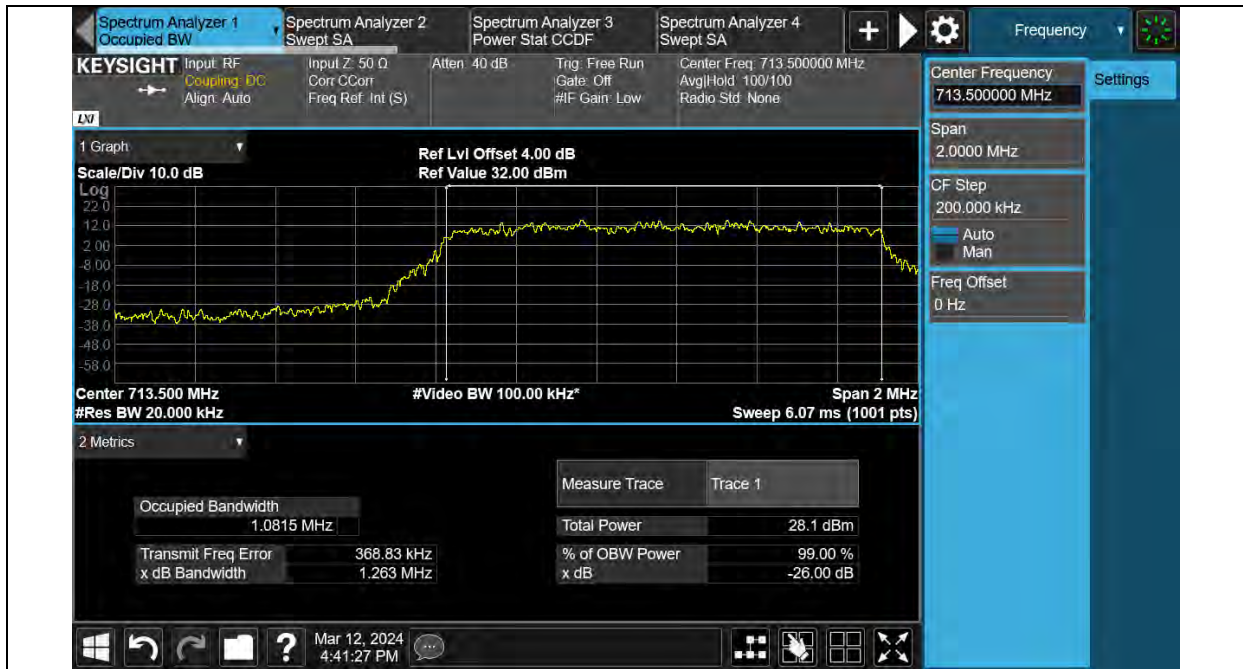


Band12-3MHz-QPSK-23165-15RB#0



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Band12-3MHz-16QAM-23165-15RB#0



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



BUREAU VERITAS

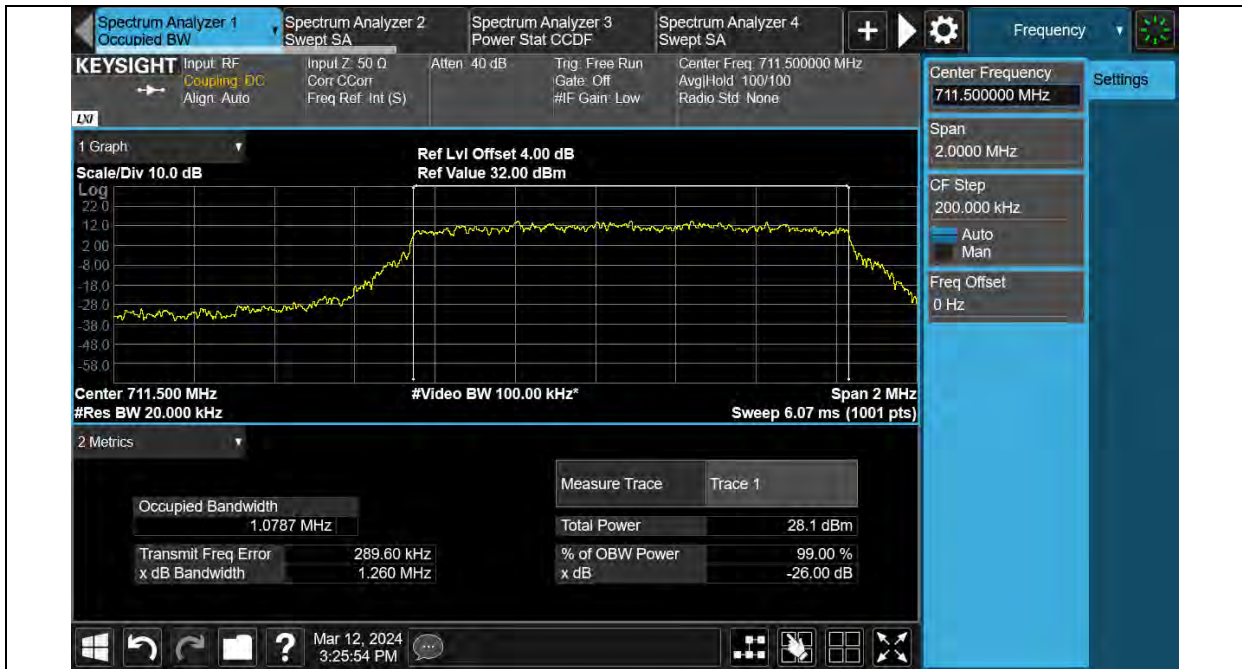
Test Report No.: W7L-240204W001RF03





BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band 12-5MHz-16QAM-23035-25RB#0

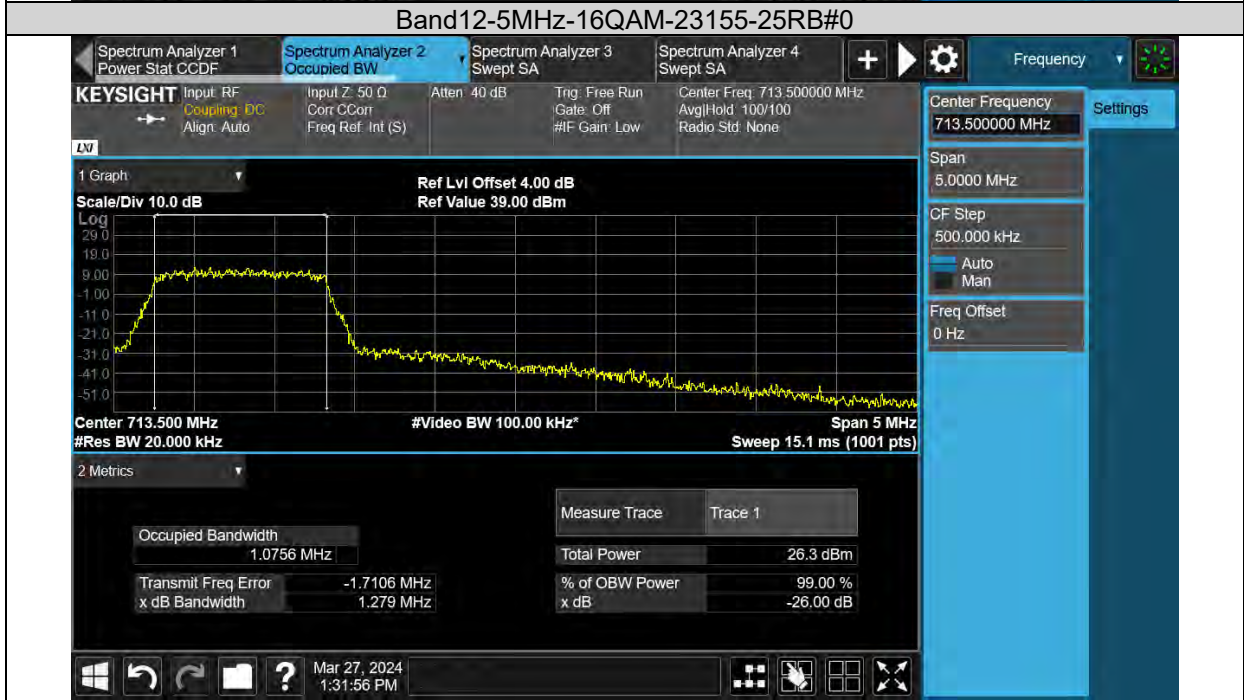


Band 12-5MHz-16QAM-23095-25RB#0



BUREAU VERITAS

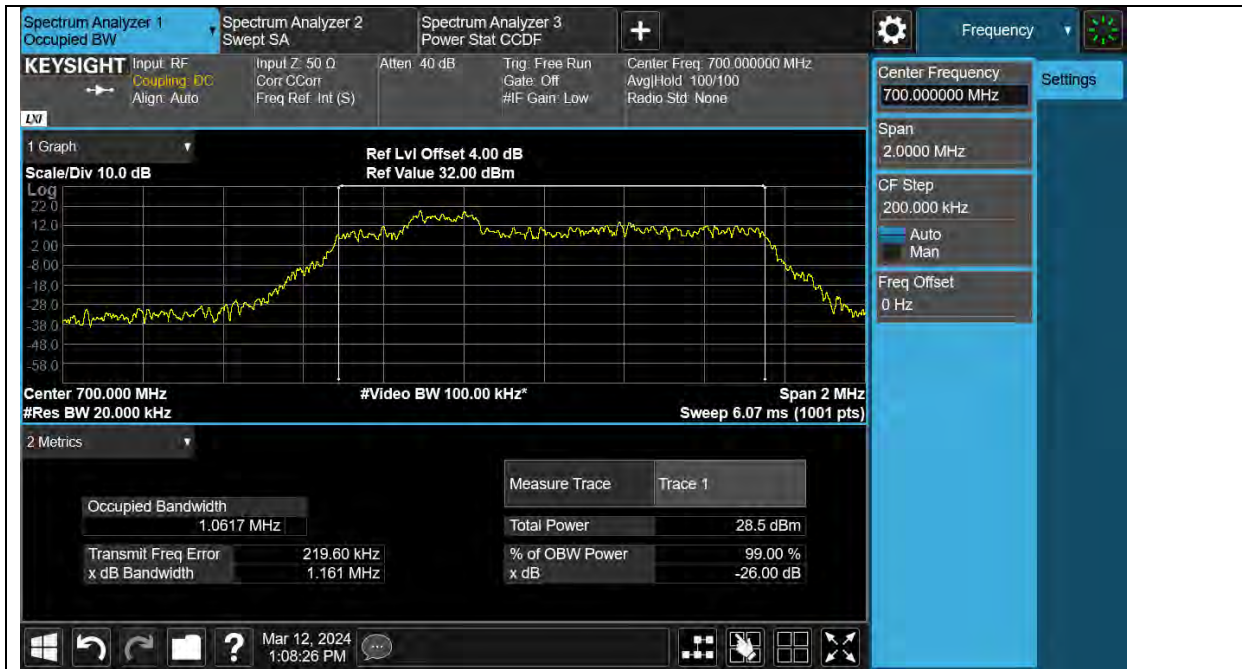
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Band12-10MHz-QPSK-23095-50RB#0



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

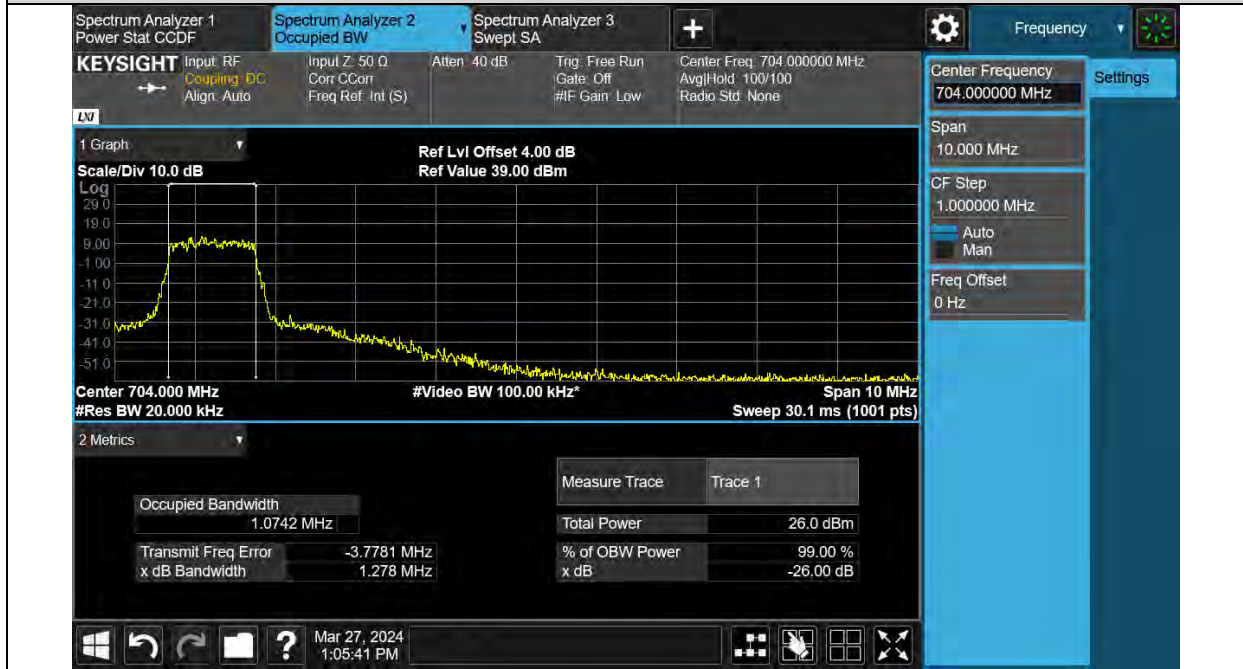


BUREAU VERITAS

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



Band12-10MHz-16QAM-23095-50RB#0



BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



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





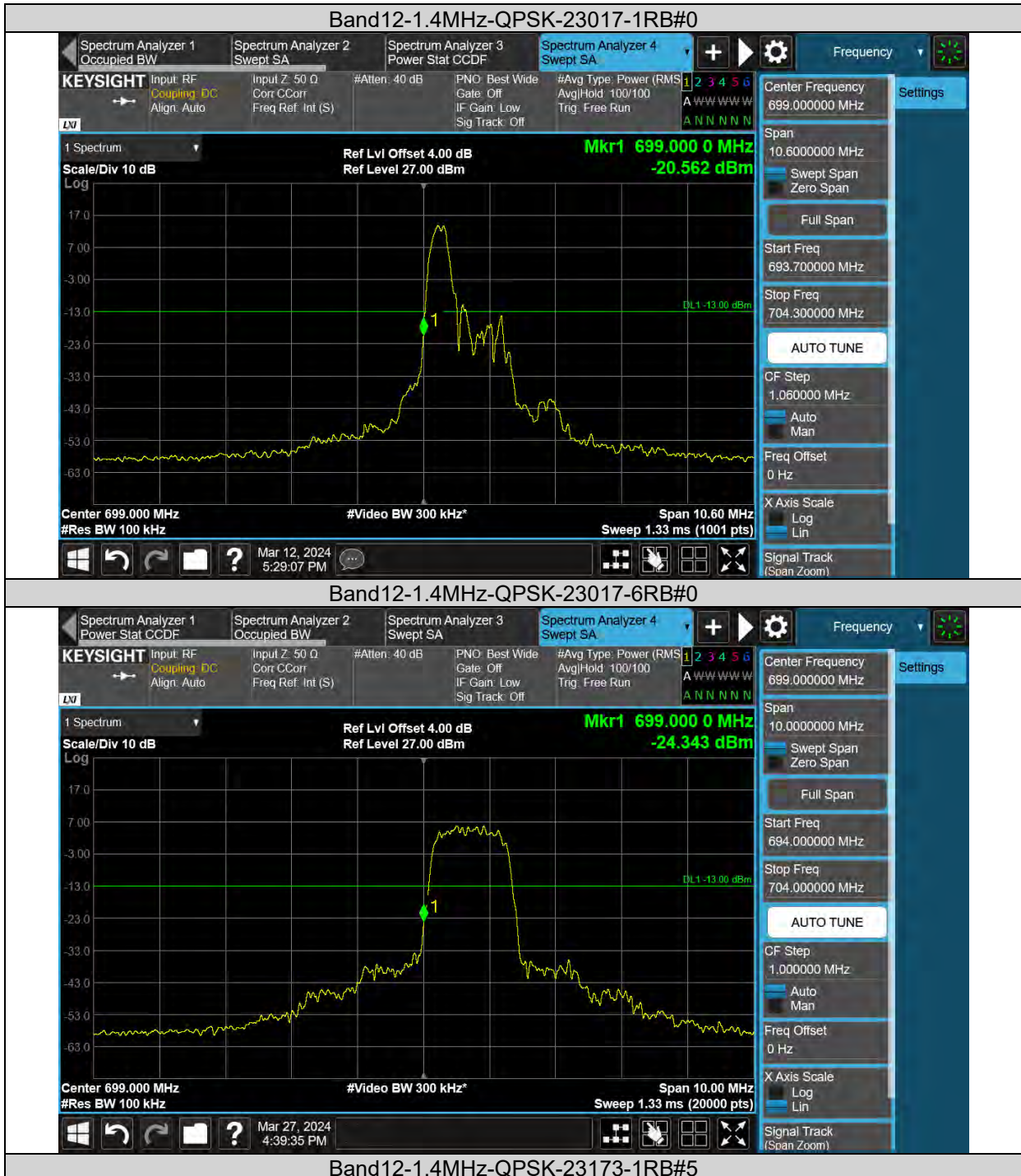
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	See Graph	PASS
Band12	3MHz	QPSK	23025	1RB#0	See Graph	PASS
Band12	3MHz	QPSK	23025	6RB#0	See Graph	PASS
Band12	3MHz	QPSK	23165	1RB#5	See Graph	PASS
Band12	3MHz	QPSK	23165	6RB#0	See Graph	PASS
Band12	3MHz	16QAM	23025	1RB#0	See Graph	PASS
Band12	3MHz	16QAM	23025	6RB#0	See Graph	PASS
Band12	3MHz	16QAM	23165	1RB#5	See Graph	PASS
Band12	3MHz	16QAM	23165	6RB#0	See Graph	PASS
Band12	5MHz	QPSK	23035	1RB#0	See Graph	PASS
Band12	5MHz	QPSK	23035	6RB#0	See Graph	PASS
Band12	5MHz	QPSK	23155	1RB#5	See Graph	PASS
Band12	5MHz	QPSK	23155	6RB#0	See Graph	PASS
Band12	5MHz	16QAM	23035	1RB#0	See Graph	PASS
Band12	5MHz	16QAM	23035	6RB#0	See Graph	PASS
Band12	5MHz	16QAM	23155	1RB#5	See Graph	PASS
Band12	5MHz	16QAM	23155	6RB#0	See Graph	PASS
Band12	10MHz	QPSK	23060	1RB#0	See Graph	PASS
Band12	10MHz	QPSK	23060	6RB#0	See Graph	PASS
Band12	10MHz	QPSK	23130	1RB#5	See Graph	PASS
Band12	10MHz	QPSK	23130	6RB#0	See Graph	PASS
Band12	10MHz	16QAM	23060	1RB#0	See Graph	PASS
Band12	10MHz	16QAM	23060	6RB#0	See Graph	PASS
Band12	10MHz	16QAM	23130	1RB#5	See Graph	PASS
Band12	10MHz	16QAM	23130	6RB#0	See Graph	PASS



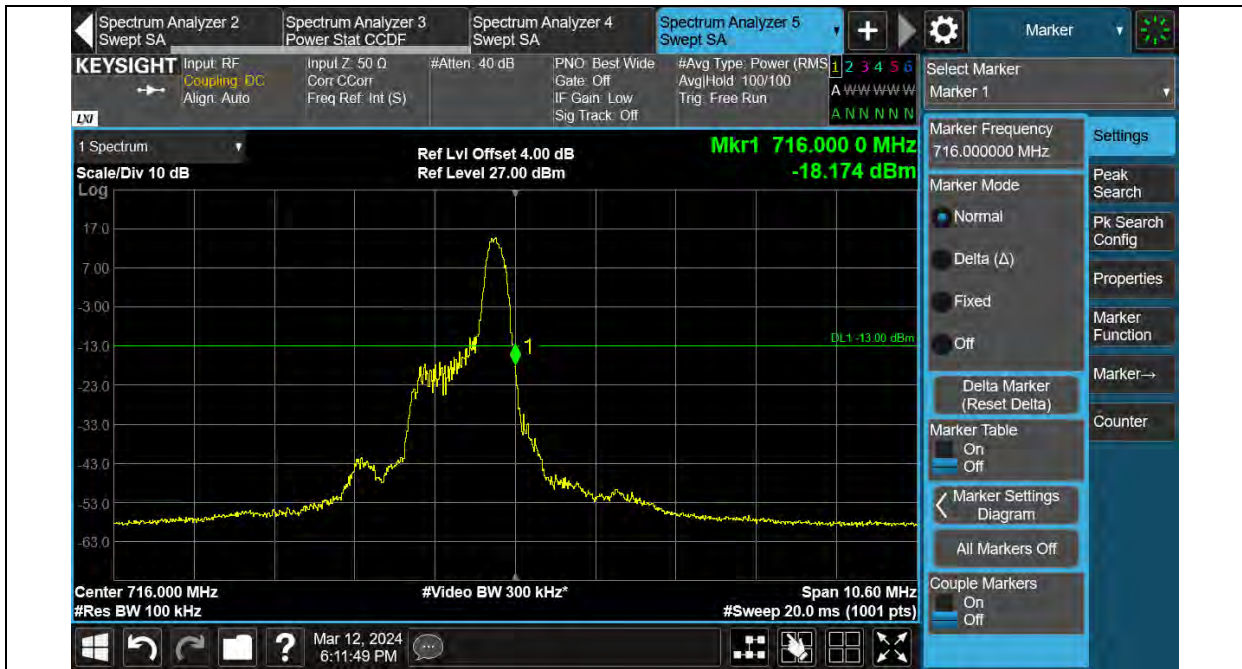
Test Graphs





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



Band12-1.4MHz-16QAM-23017-1RB#0



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Test Report No.: W7L-240204W001RF03



Band12-1.4MHz-16QAM-23017-6RB#0

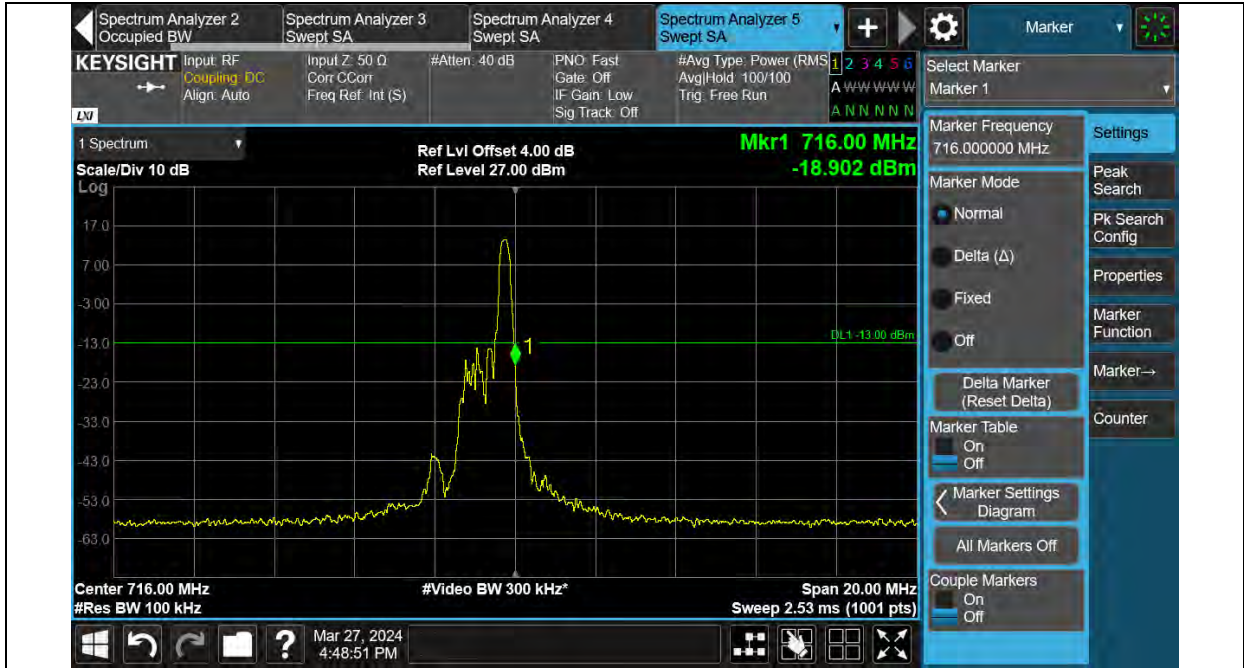


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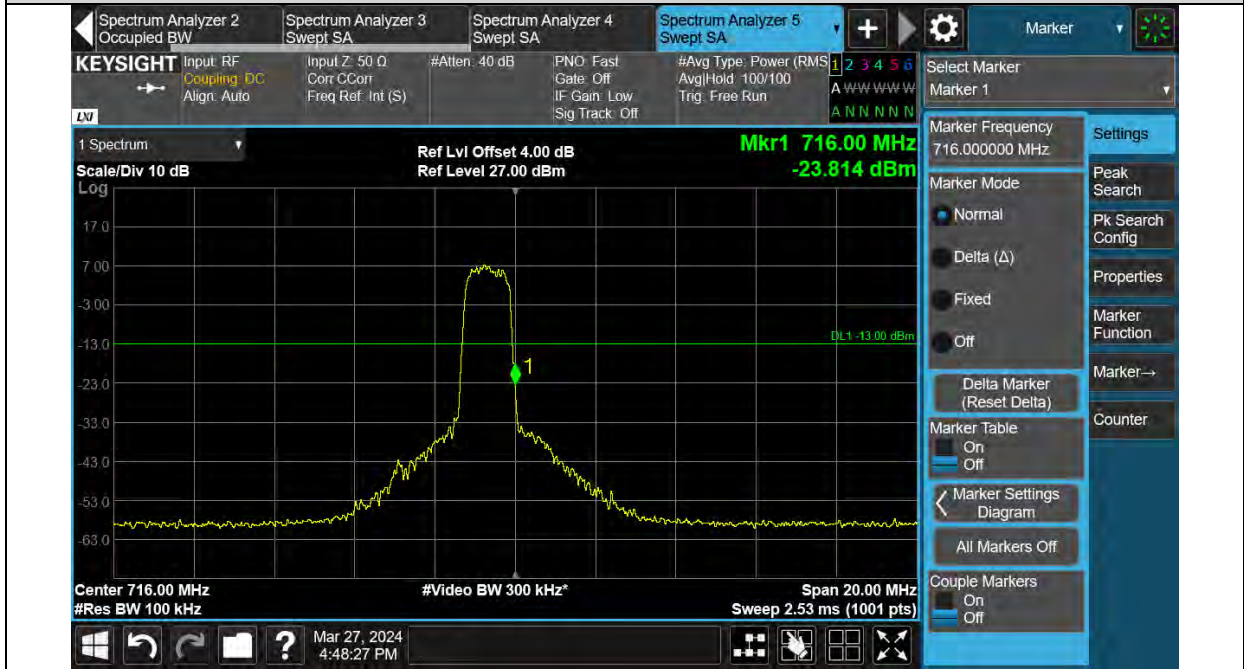


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Test Report No.: W7L-240204W001RF03



Band12-1.4MHz-16QAM-23173-6RB#0

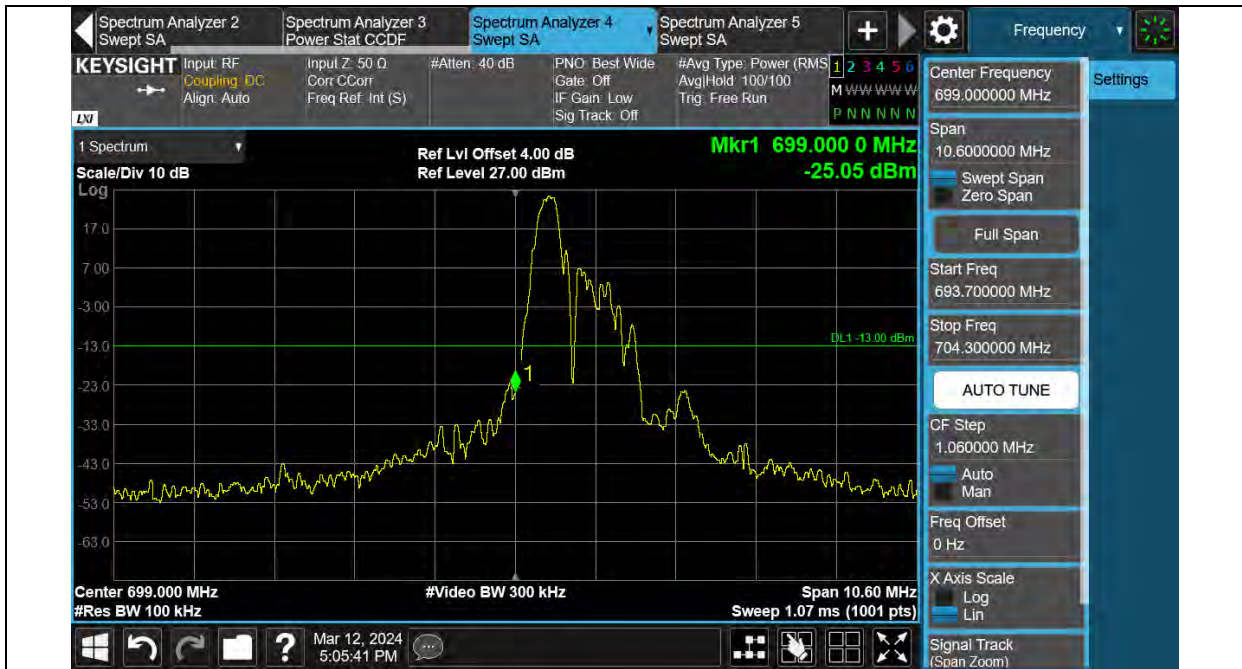


Band12-3MHz-QPSK-23025-1RB#0



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Test Report No.: W7L-240204W001RF03



Band12-3MHz-QPSK-23025-6RB#0

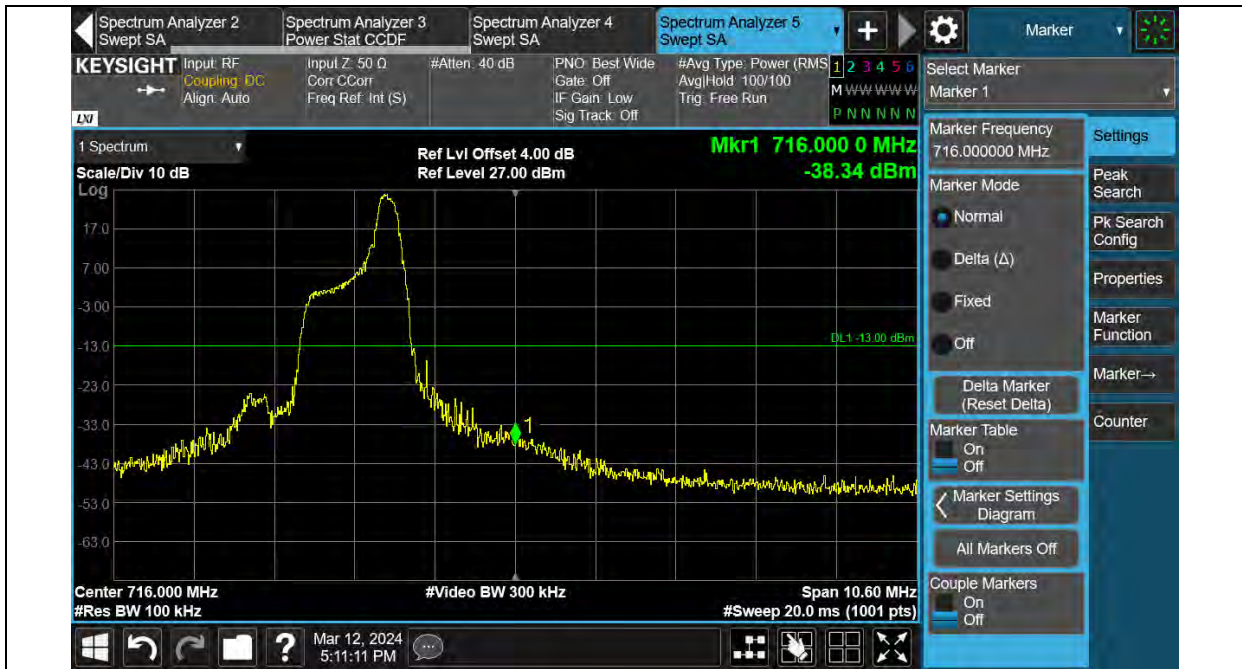


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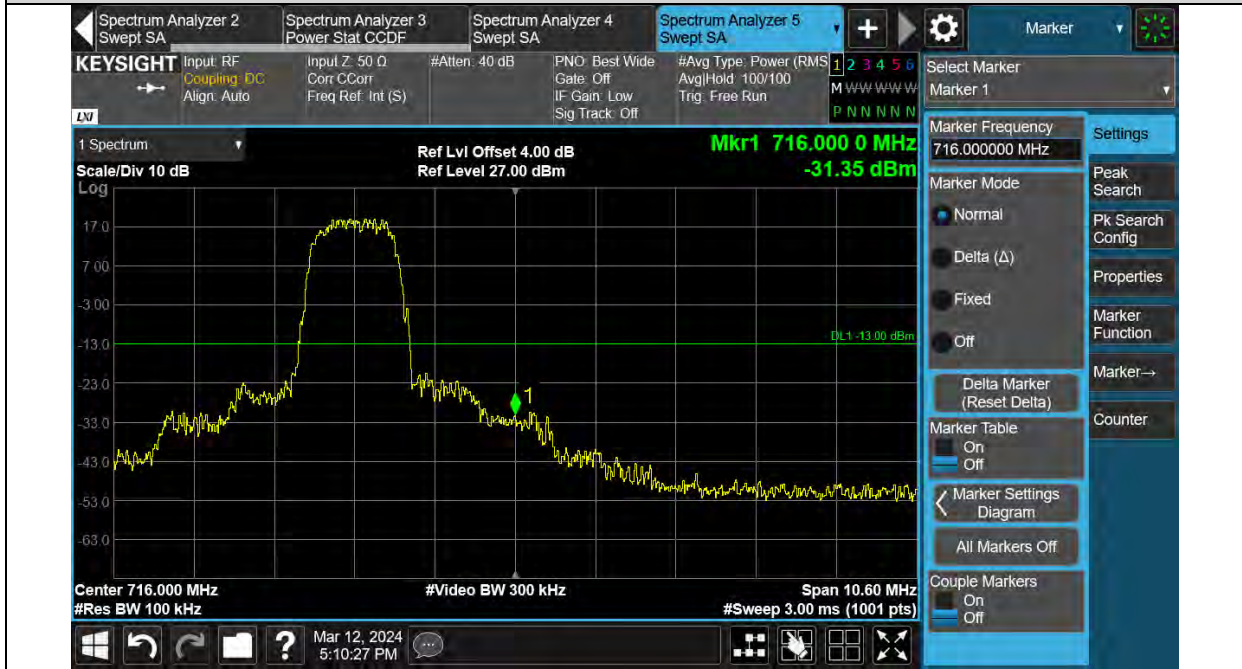


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band 12-3MHz-QPSK-23165-6RB#0



Band 12-3MHz-16QAM-23025-1RB#0

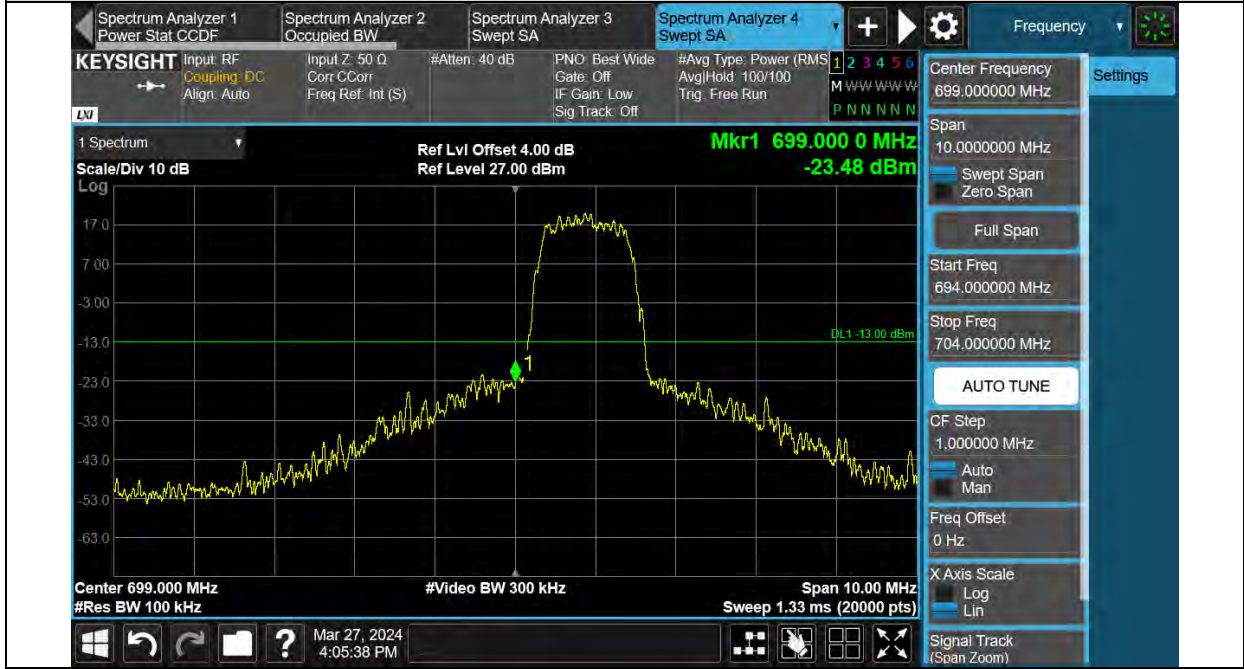


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-3MHz-16QAM-23025-6RB#0

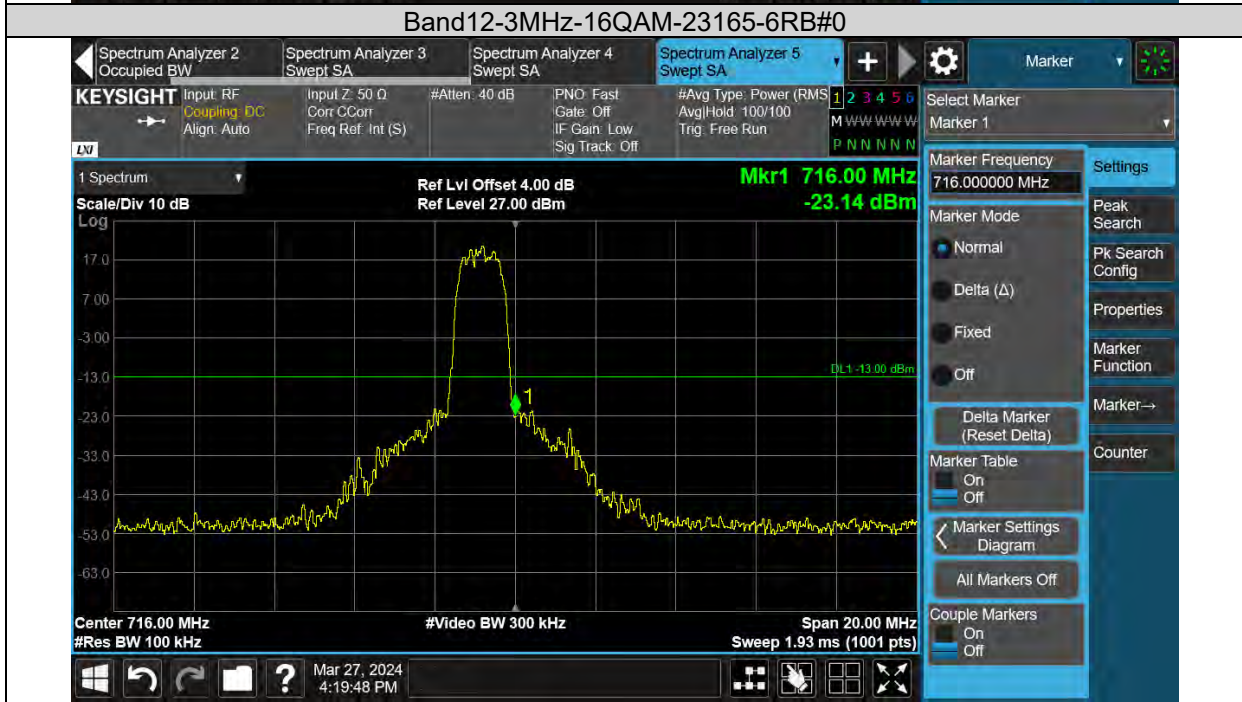


Band12-3MHz-16QAM-23165-1RB#5



BUREAU VERITAS

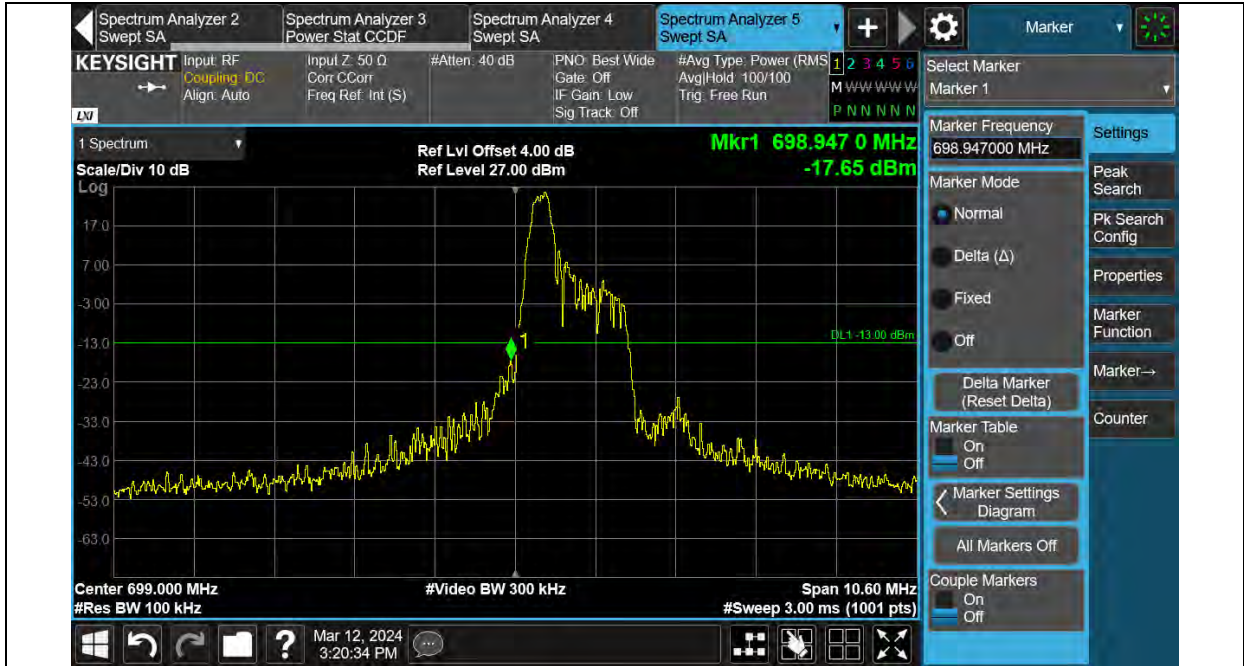
Test Report No.: W7L-240204W001RF03





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Test Report No.: W7L-240204W001RF03



Band12-5MHz-QPSK-23035-6RB#0

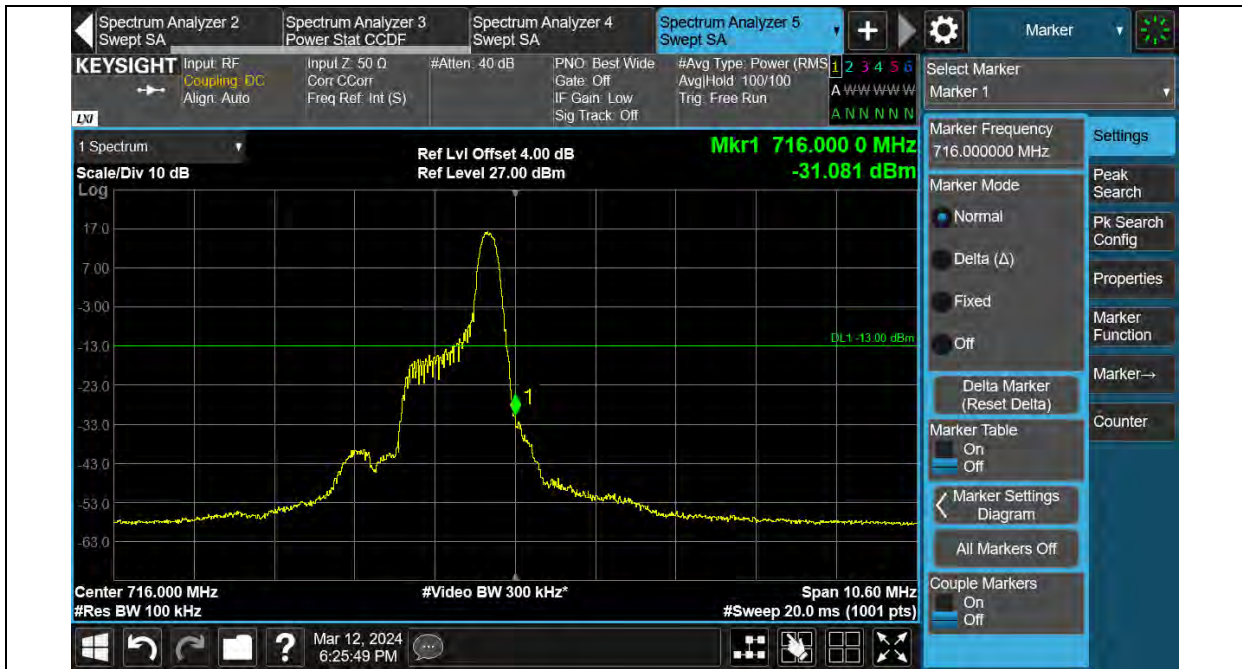


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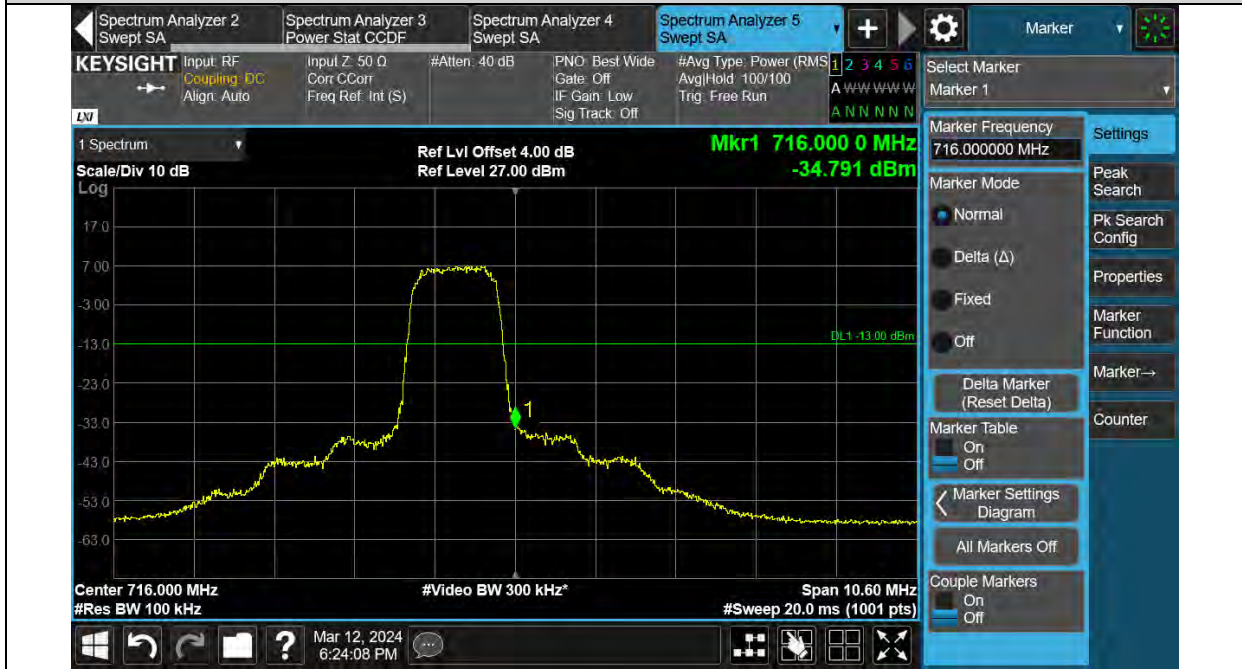


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-5MHz-QPSK-23155-6RB#0

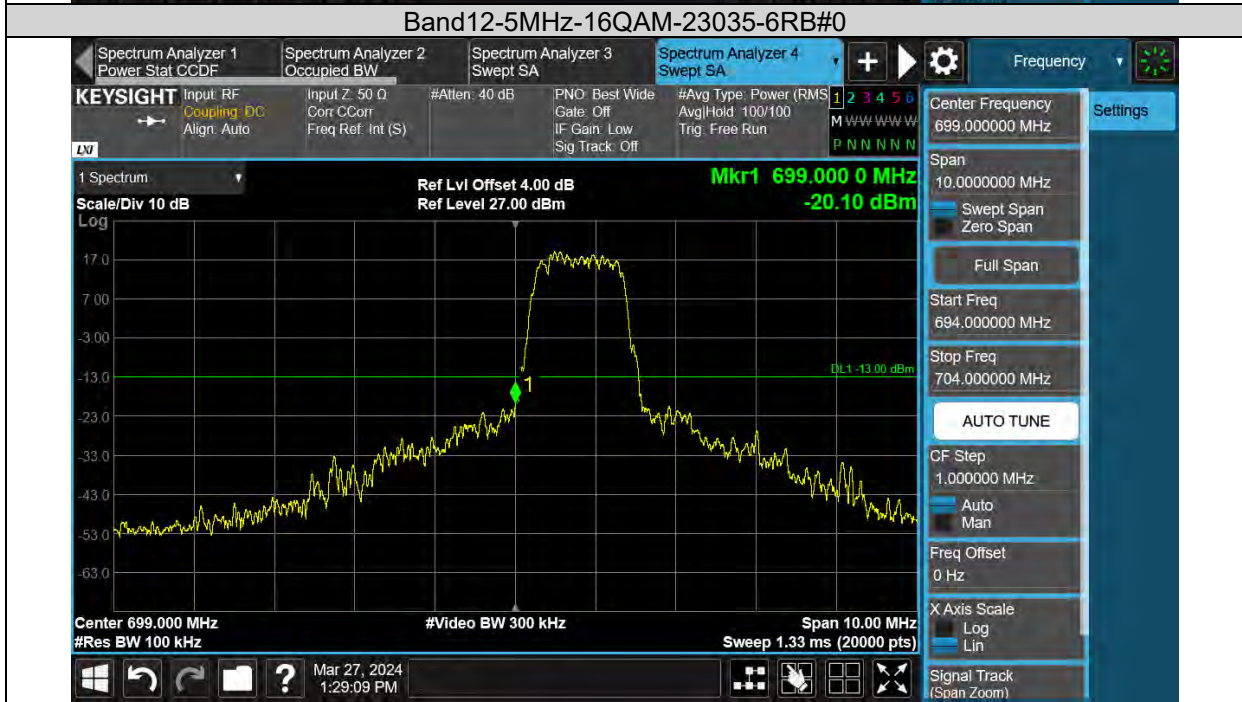
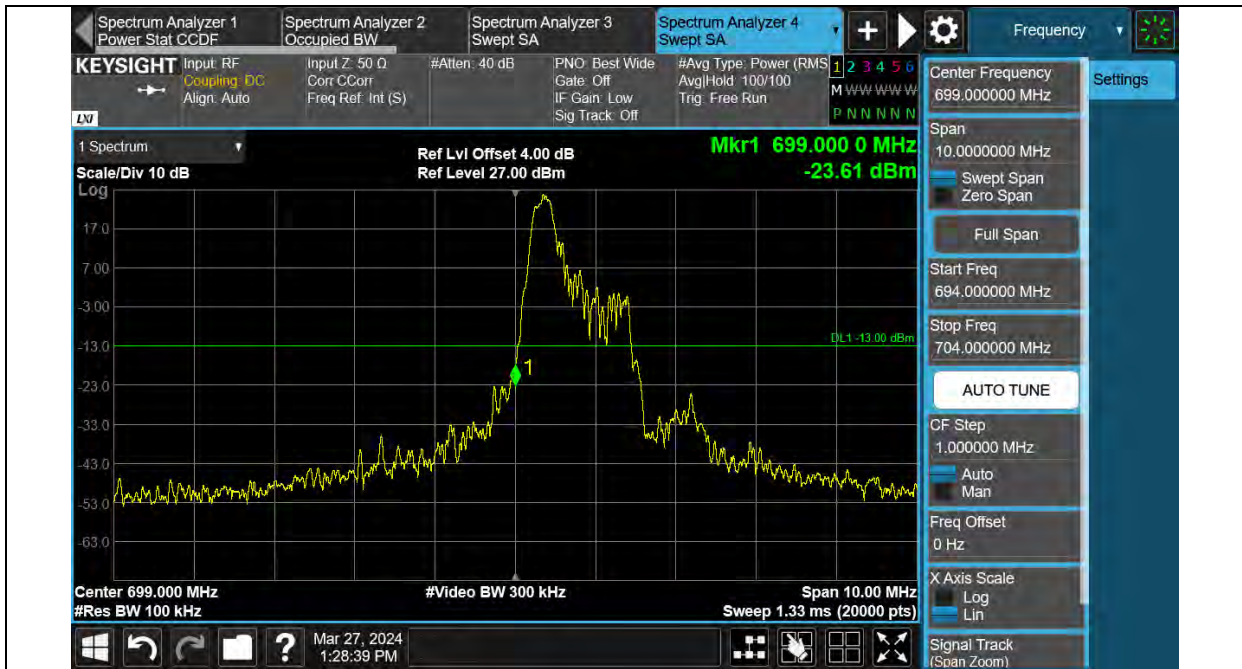


Band12-5MHz-16QAM-23035-1RB#0



BUREAU VERITAS

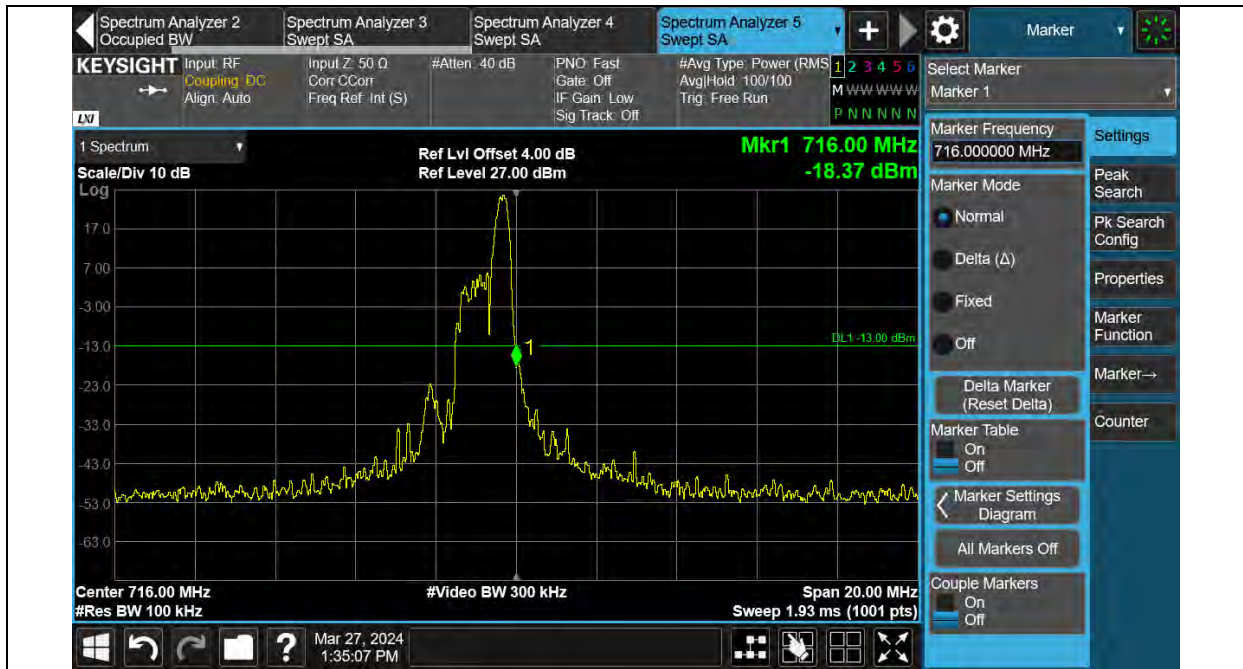
Test Report No.: W7L-240204W001RF03



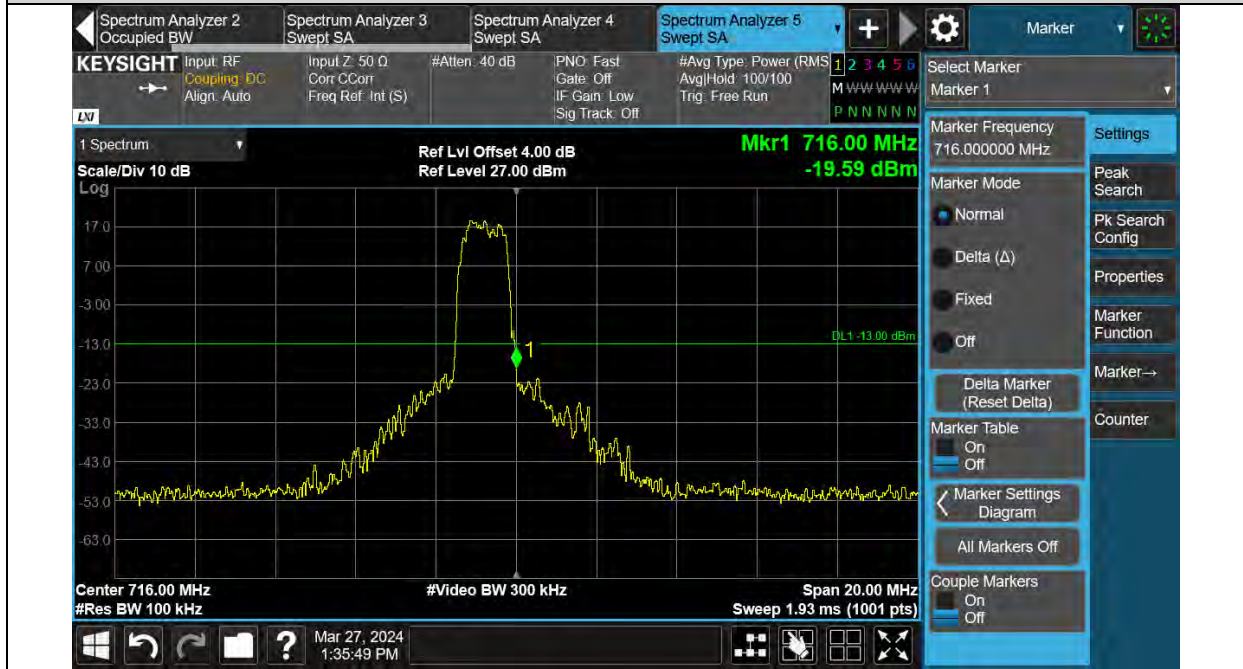


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Test Report No.: W7L-240204W001RF03



Band12-5MHz-16QAM-23155-6RB#0

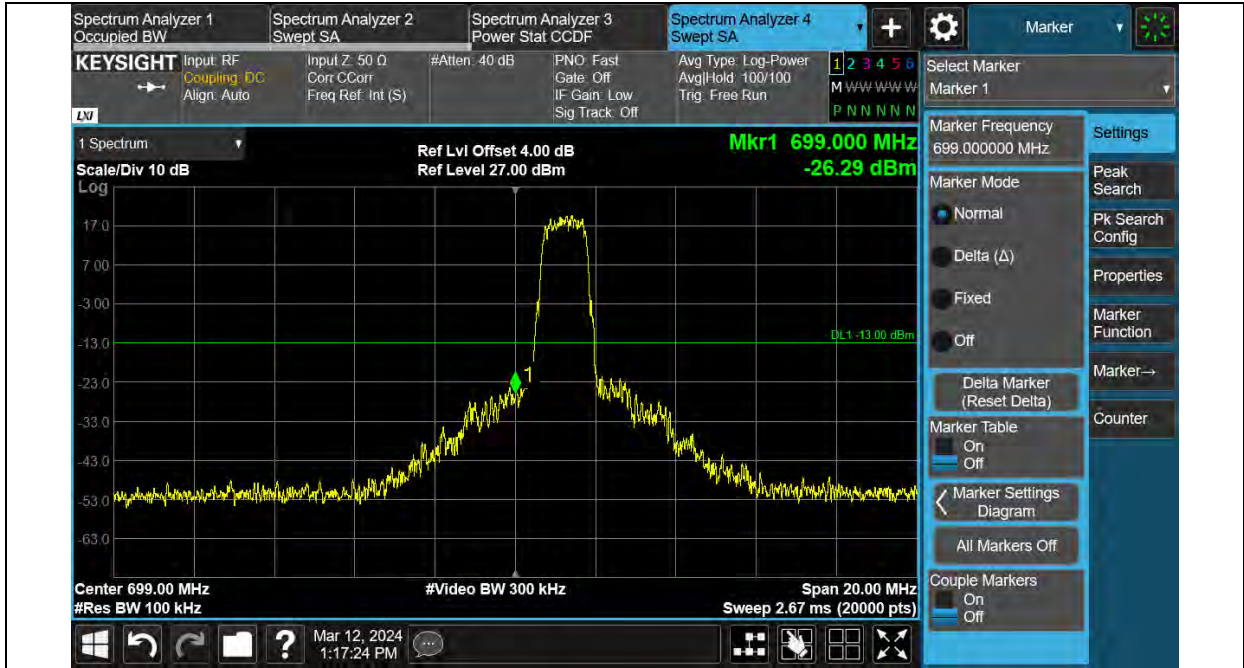


Band12-10MHz-QPSK-23060-1RB#0



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Test Report No.: W7L-240204W001RF03



Band12-10MHz-QPSK-23060-6RB#0

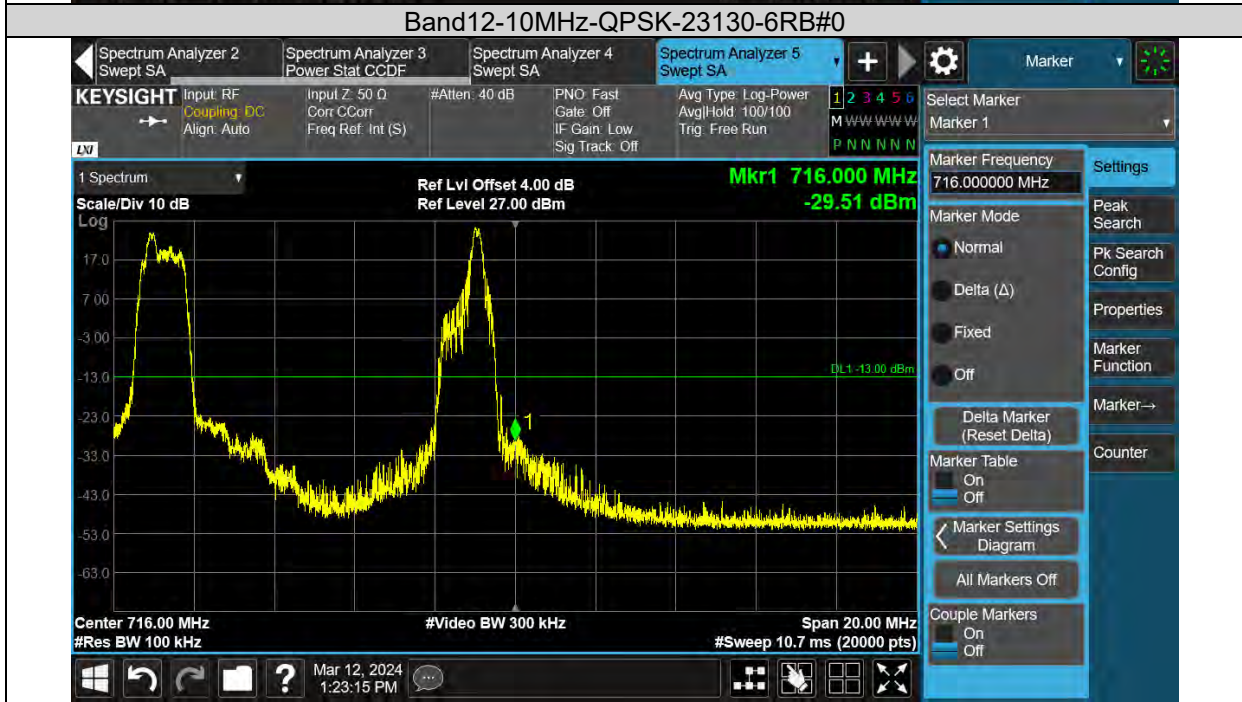
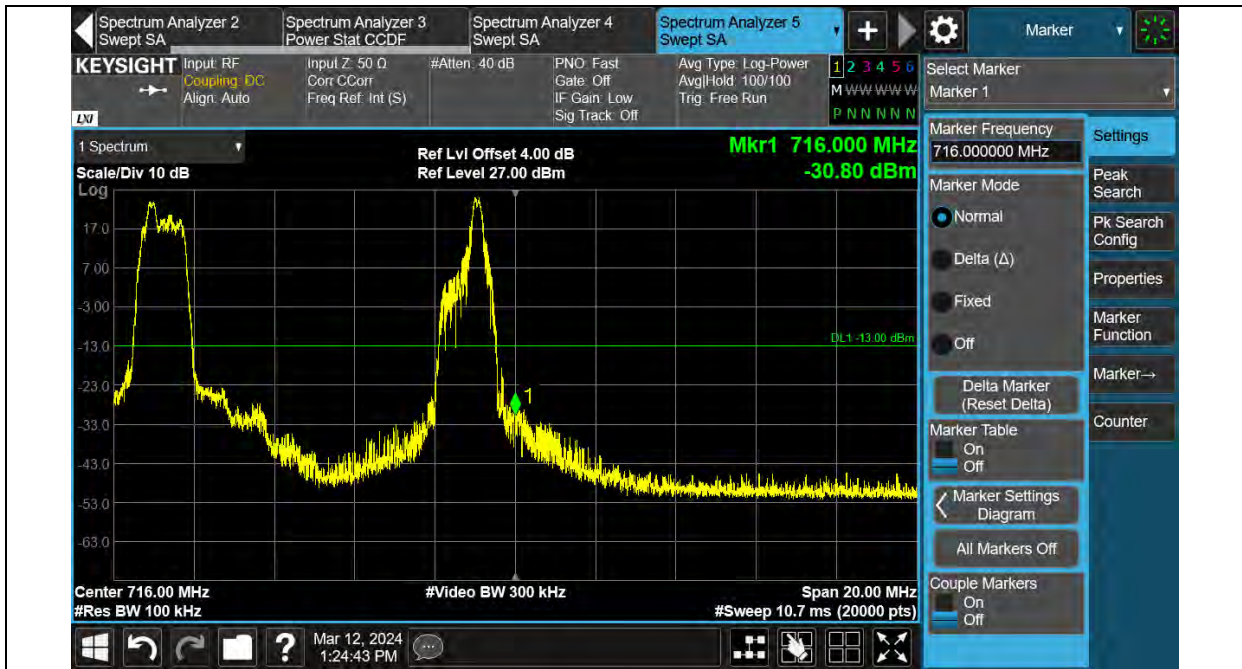


Band12-10MHz-QPSK-23130-1RB#5



BUREAU VERITAS

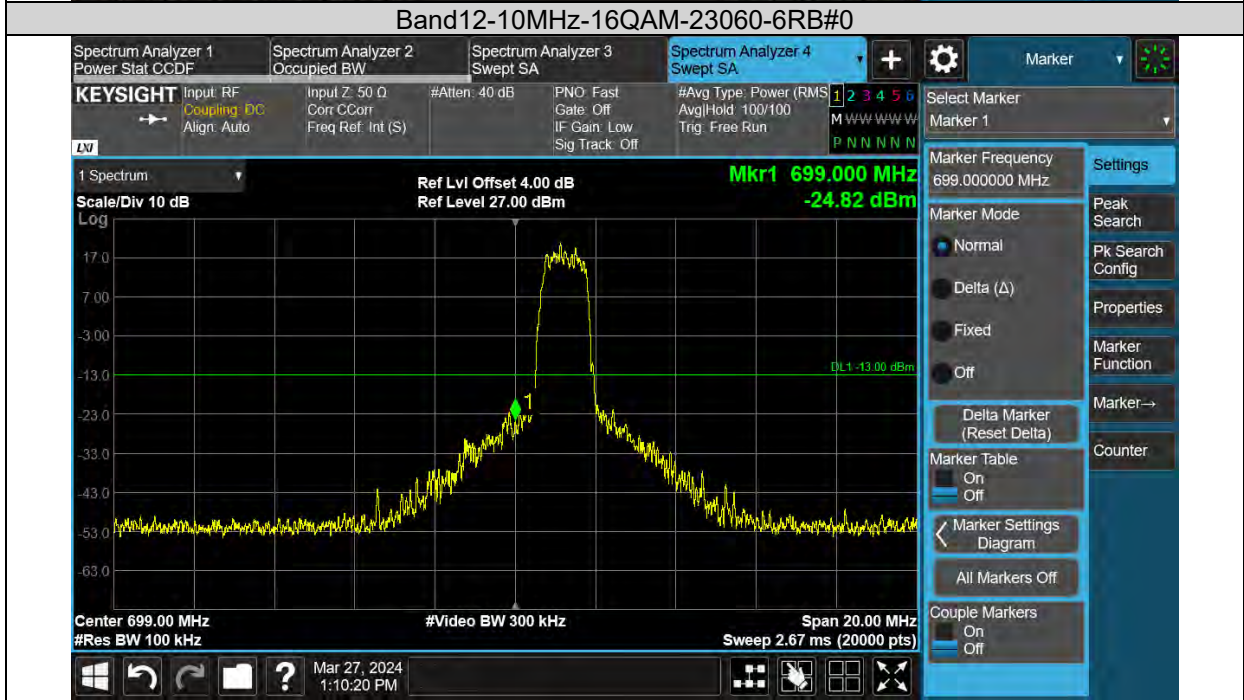
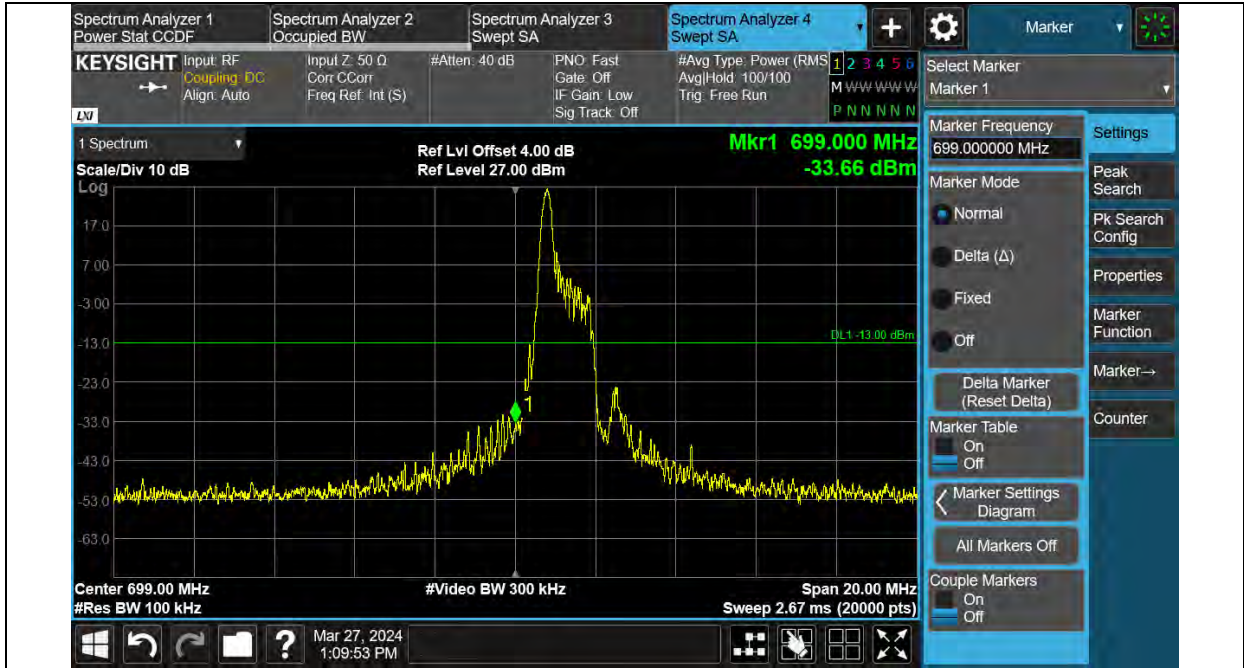
Test Report No.: W7L-240204W001RF03





BUREAU VERITAS

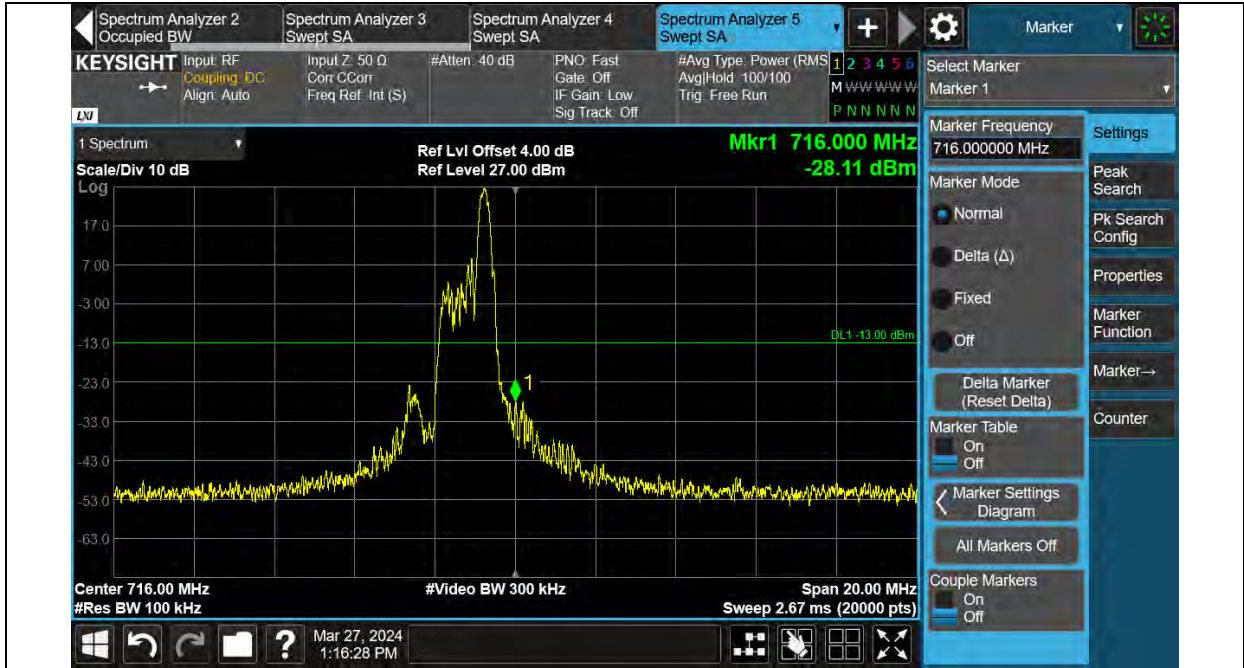
Test Report No.: W7L-240204W001RF03



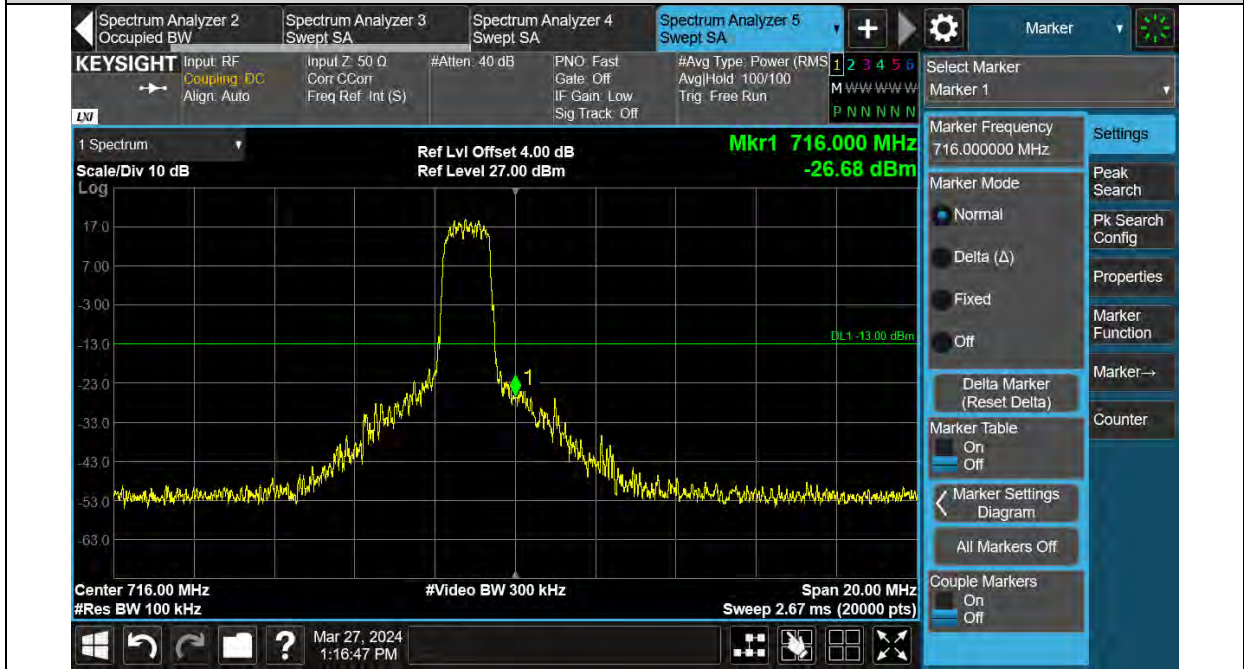


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-10MHz-16QAM-23130-6RB#0





Test Report No.: W7L-240204W001RF03

CONDUCTED SPURIOUS EMISSION

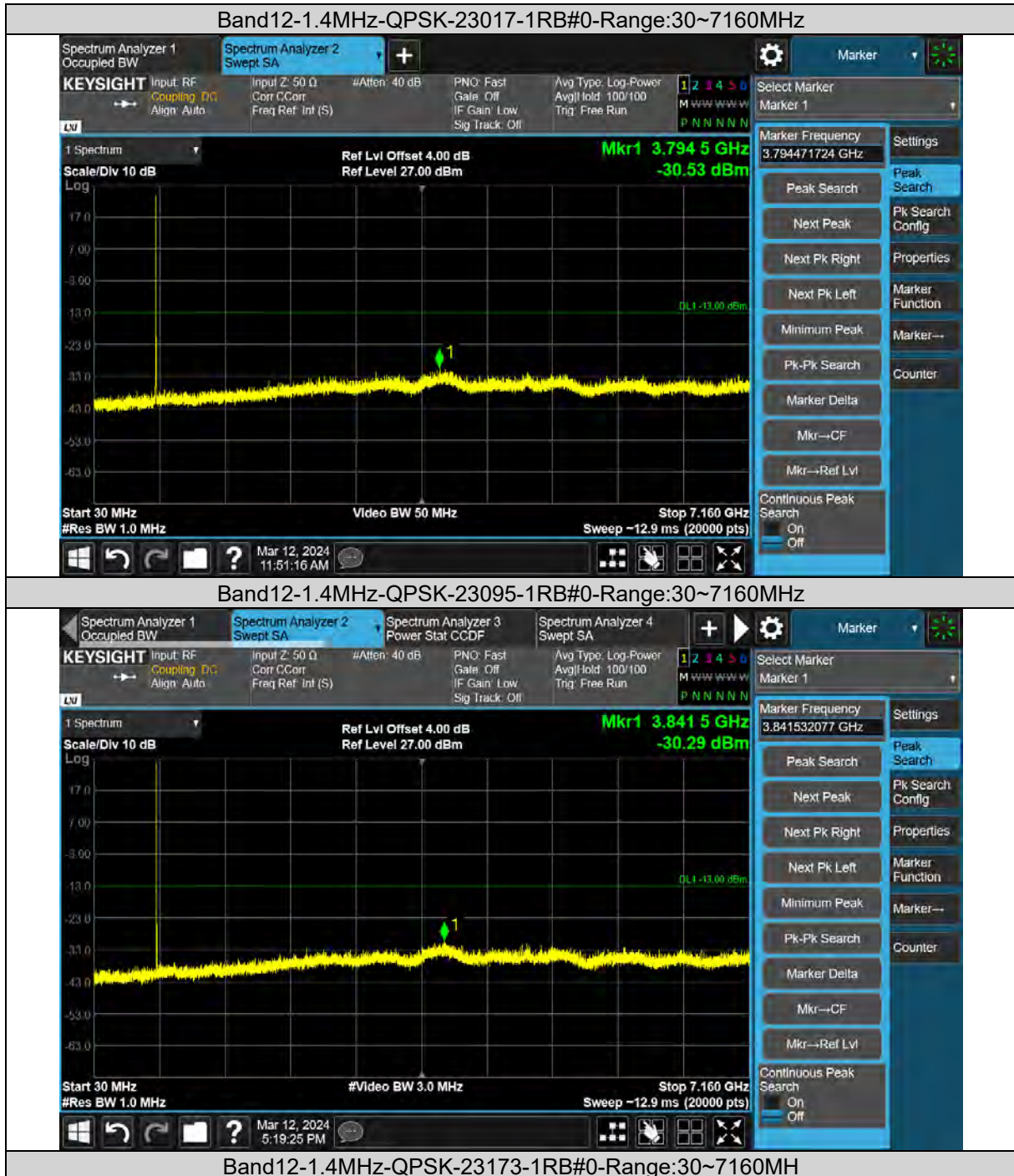
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range:30~7160MHz	See Graph	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range:30~7160MHz	See Graph	PASS



Test Report No.: W7L-240204W001RF03

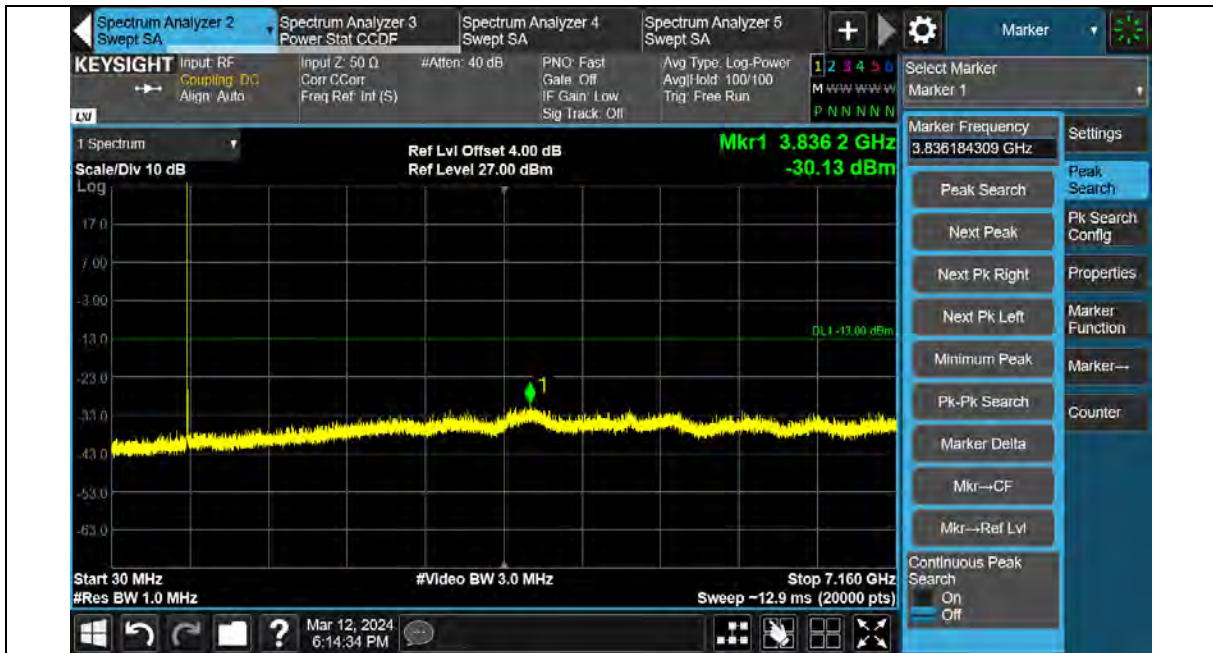
Test Graphs



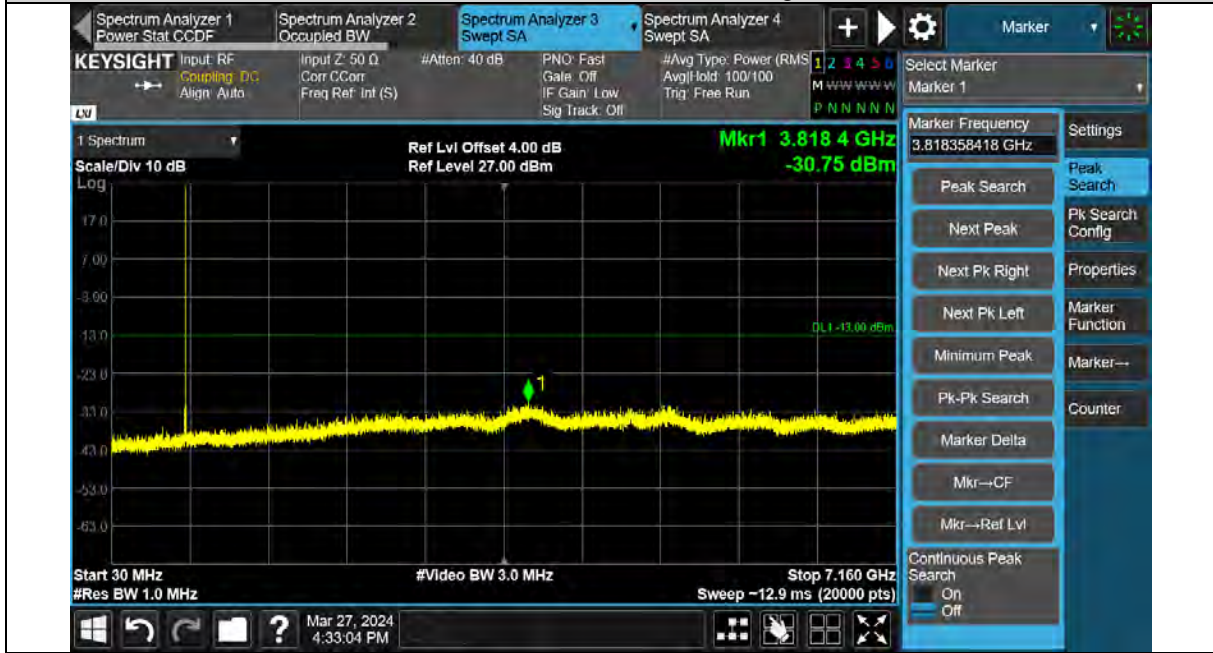


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-1.4MHz-16QAM-23017-1RB#0-Range:30~7160MH



Band12-1.4MHz-16QAM-23095-1RB#0-Range:30~7160MH

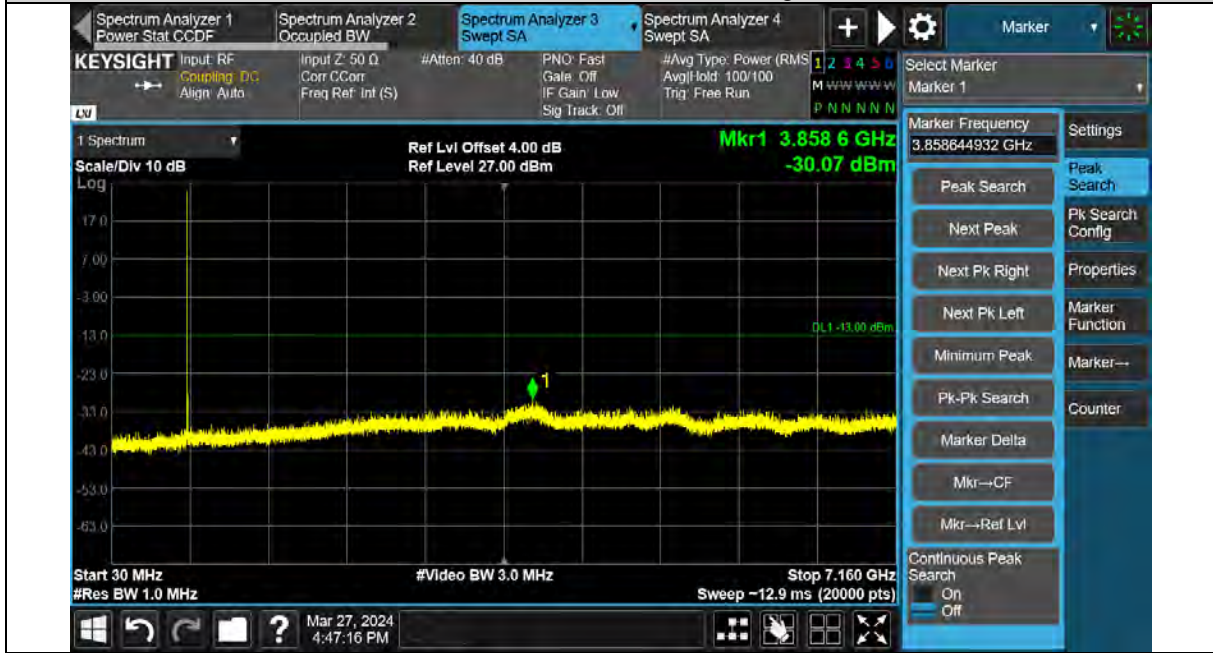


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-1.4MHz-16QAM-23173-1RB#0-Range:30~7160MH

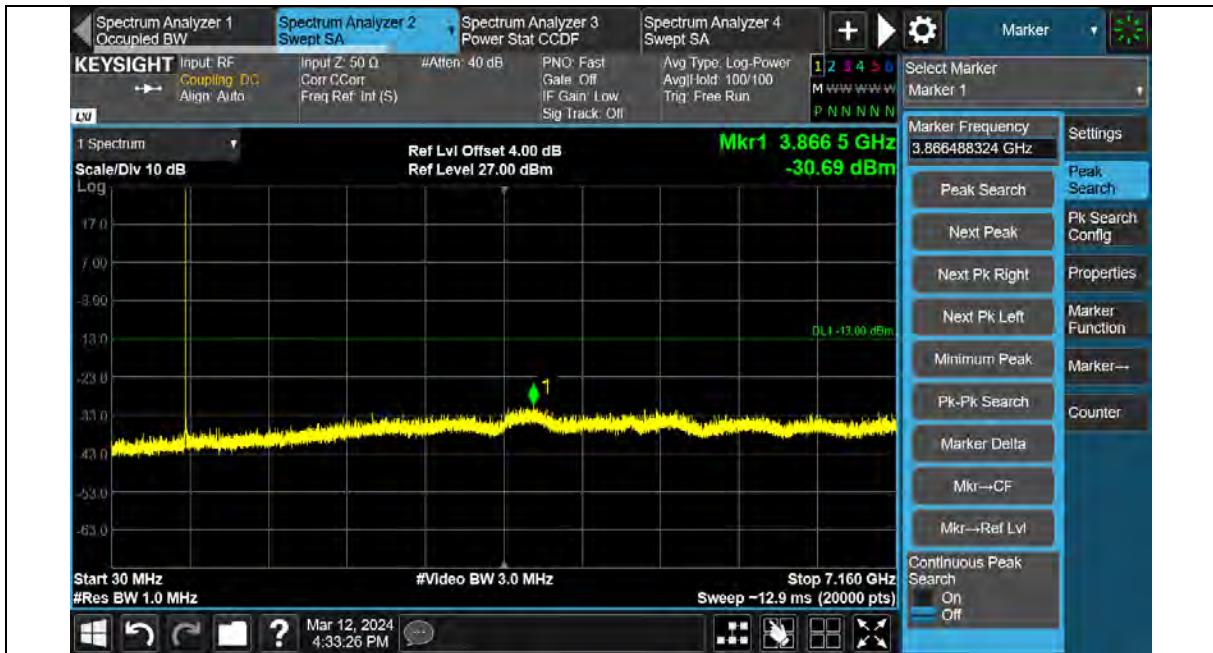


Band12-3MHz-QPSK-23025-1RB#0-Range:30~7160MH

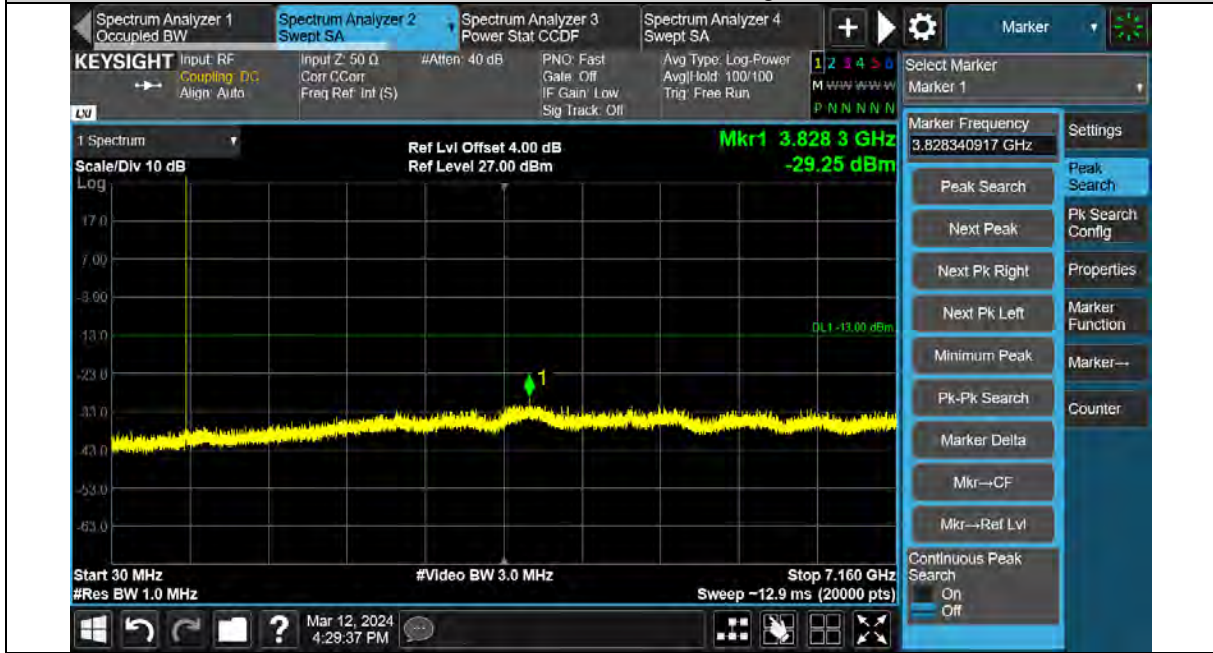


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-3MHz-QPSK-23095-1RB#0-Range:30~7160MH

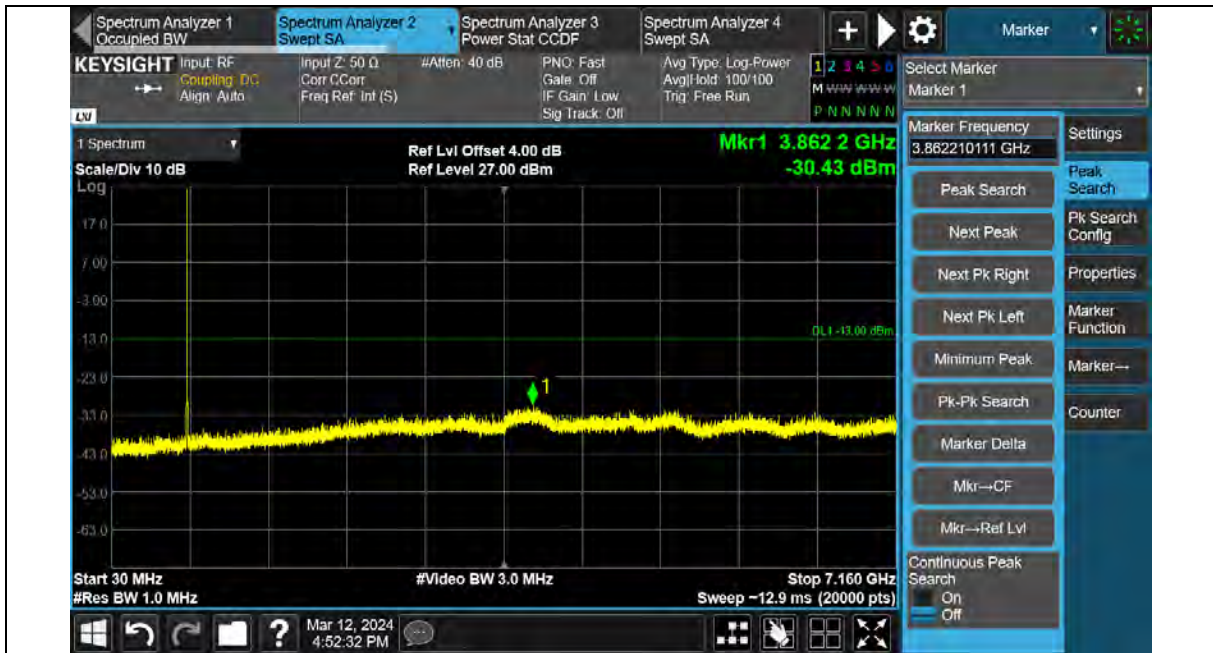


Band12-3MHz-QPSK-23165-1RB#0-Range:30~7160MH

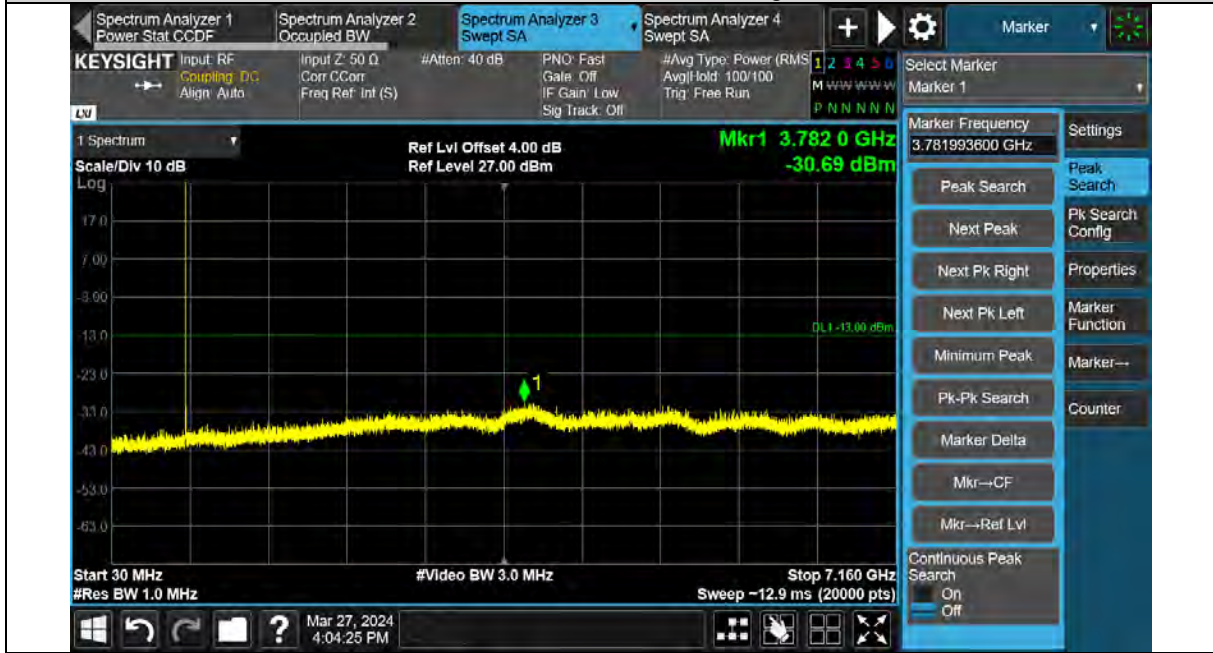


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-3MHz-16QAM-23025-1RB#0-Range:30~7160MH



Band12-3MHz-16QAM-23095-1RB#0-Range:30~7160MH

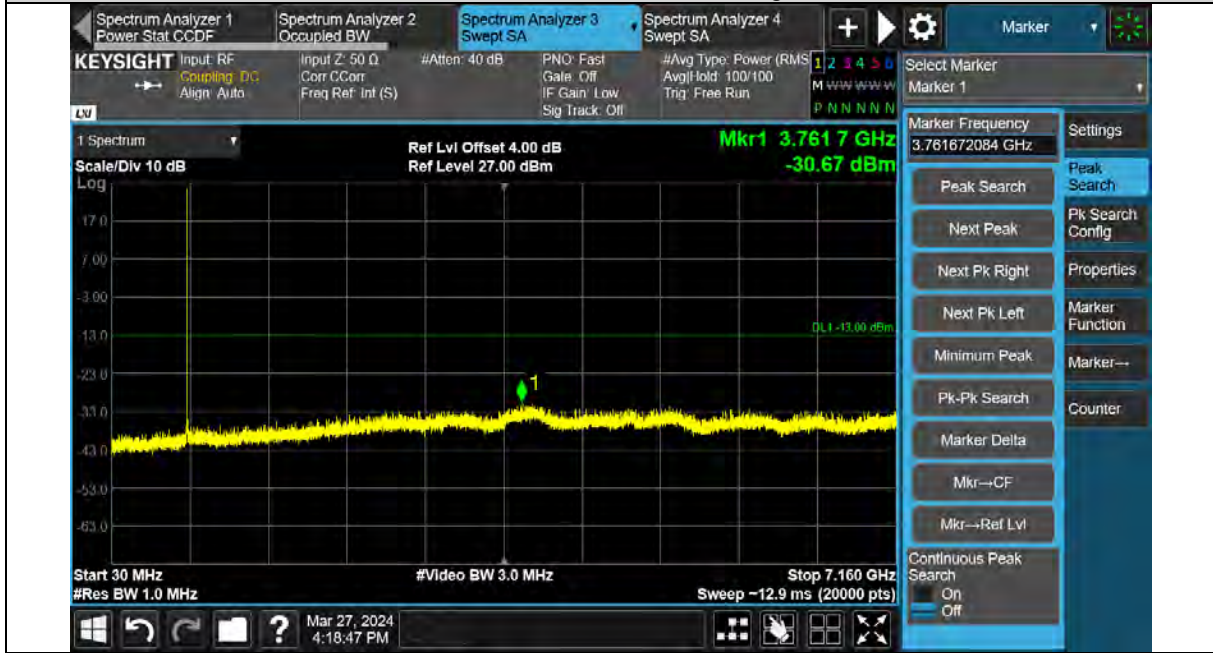


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-3MHz-16QAM-23165-1RB#0-Range:30~7160MH

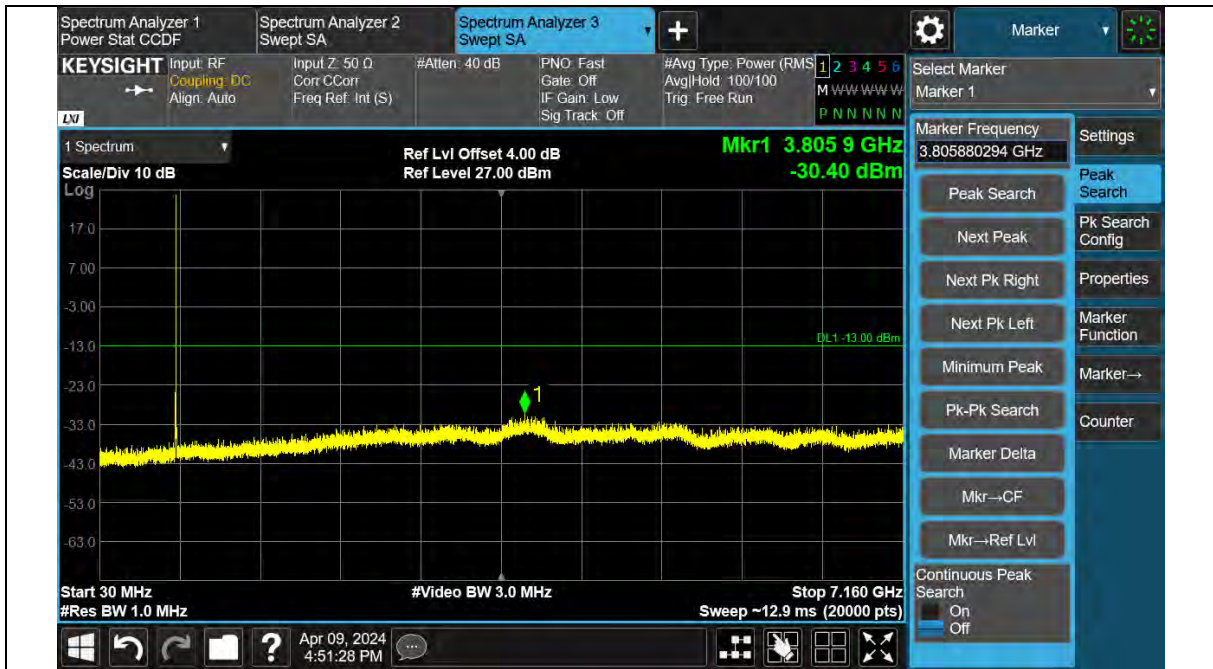


Band12-5MHz-QPSK-23035-1RB#0-Range:30~7160MH

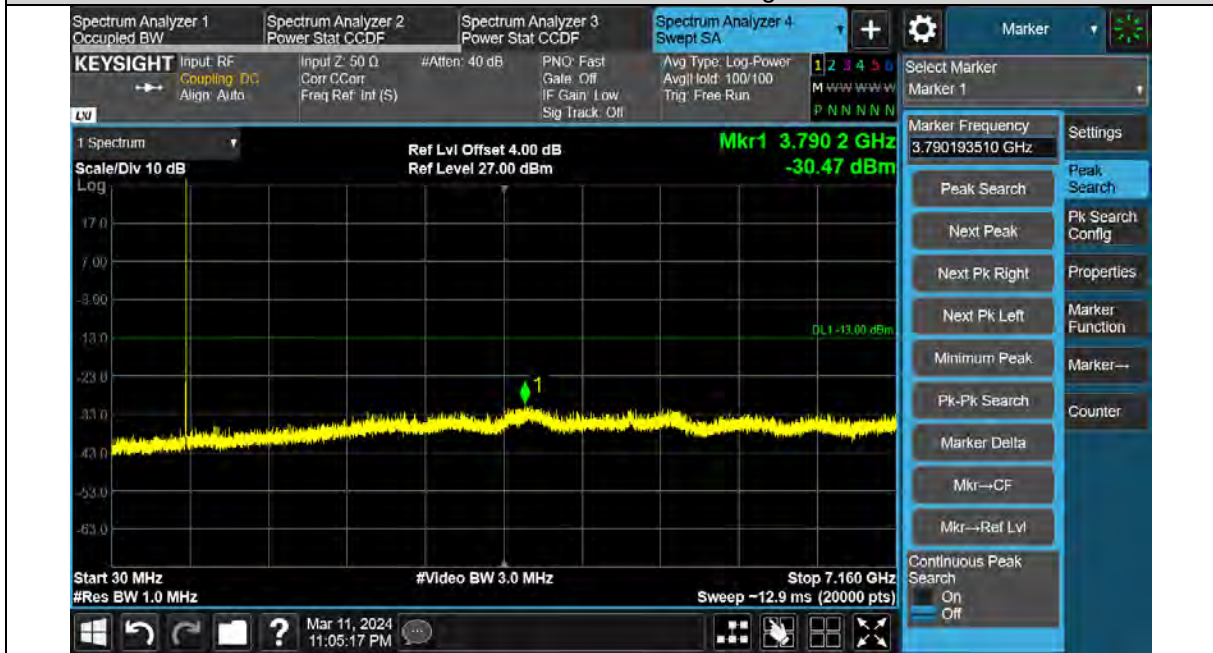


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-5MHz-QPSK-23095-1RB#0-Range:30~7160MH

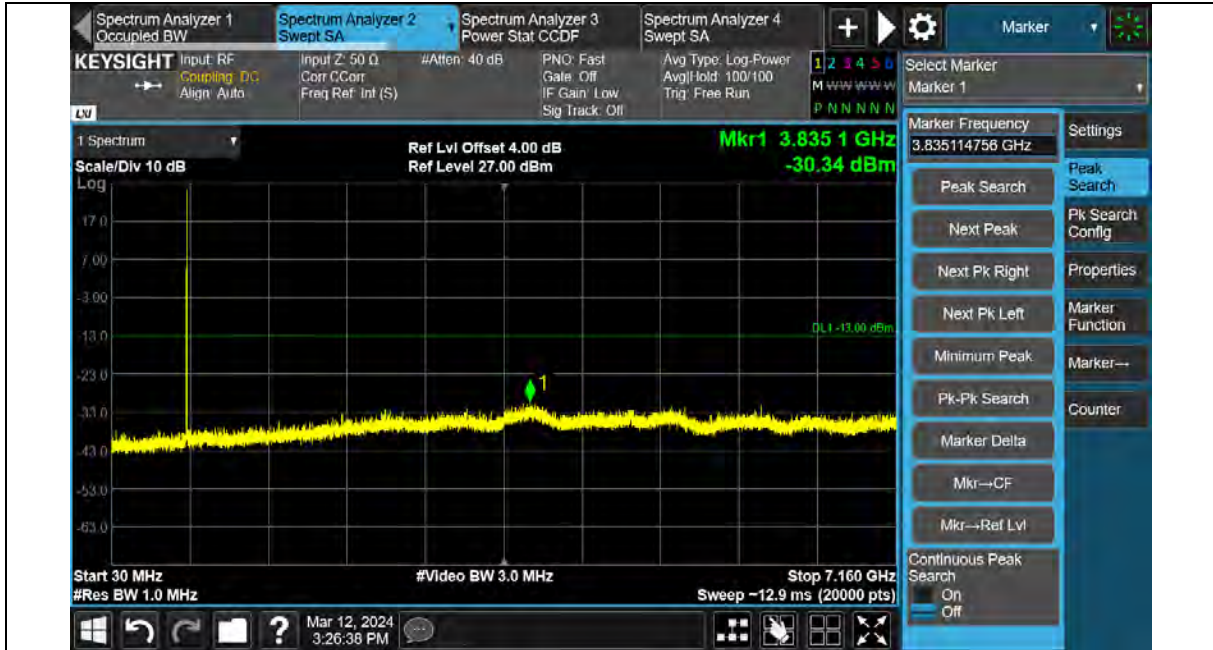


Band12-5MHz-QPSK-23155-1RB#0-Range:30~7160MH



BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band12-5MHz-16QAM-23035-1RB#0-Range:30~7160MH



Band12-5MHz-16QAM-23095-1RB#0-Range:30~7160MH