



Test Report No.: W7L-P23030004RF06

FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-8.41	-0.003351	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-18.11	-0.007215	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-11.01	-0.004386	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-10.73	-0.004233	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	10.04	0.003961	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-9.84	-0.003882	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-20.87	-0.008152	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-19.68	-0.007688	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-20.50	-0.008008	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-14.73	-0.005869	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-10.00	-0.003984	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	-12.82	-0.005108	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-15.01	-0.005980	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-14.19	-0.005653	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-18.97	-0.007558	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-5.68	-0.002263	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-15.02	-0.005984	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	12.73	0.005072	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-5.36	-0.002114	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	13.70	0.005404	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-11.19	-0.004414	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	6.37	0.002513	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-13.15	-0.005187	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	10.67	0.004209	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	16.71	0.006592	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-11.14	-0.004394	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	14.75	0.005819	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-17.52	-0.006844	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-16.79	-0.006559	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	-21.10	-0.008242	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-14.51	-0.005668	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	14.18	0.005539	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	15.01	0.005863	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-13.22	-0.005164	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-7.22	-0.002820	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-8.35	-0.003262	±2.5	PASS



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Note: LV = Low voltage(3.5V); NV = Normal voltage(3.8V); HV = High voltage(4.2V);NT = Normal temperature (25°C).

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L - \text{MAX}(\Delta f) $	2501.026000	≥ 2500	PASS
$f_H - \text{MAX}(\Delta f) $	2568.968000	≤ 2570	

- Note :
- $|\text{MAX}(\Delta f)| = \text{Max Deviation}$
 - $f_L = \text{Occ low channel } f(-13\text{dBm/MHz})$
 - $f_H = \text{Occ High channel } f(-13\text{dBm/MHz})$
 - $|\text{MAX}(\Delta f)| = 16.71 \text{ Hz.}$



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LTE BAND41 (INDCLUDING LTE BAND38)

PEAK-TO-AVERAGE RATIO(CCDF)

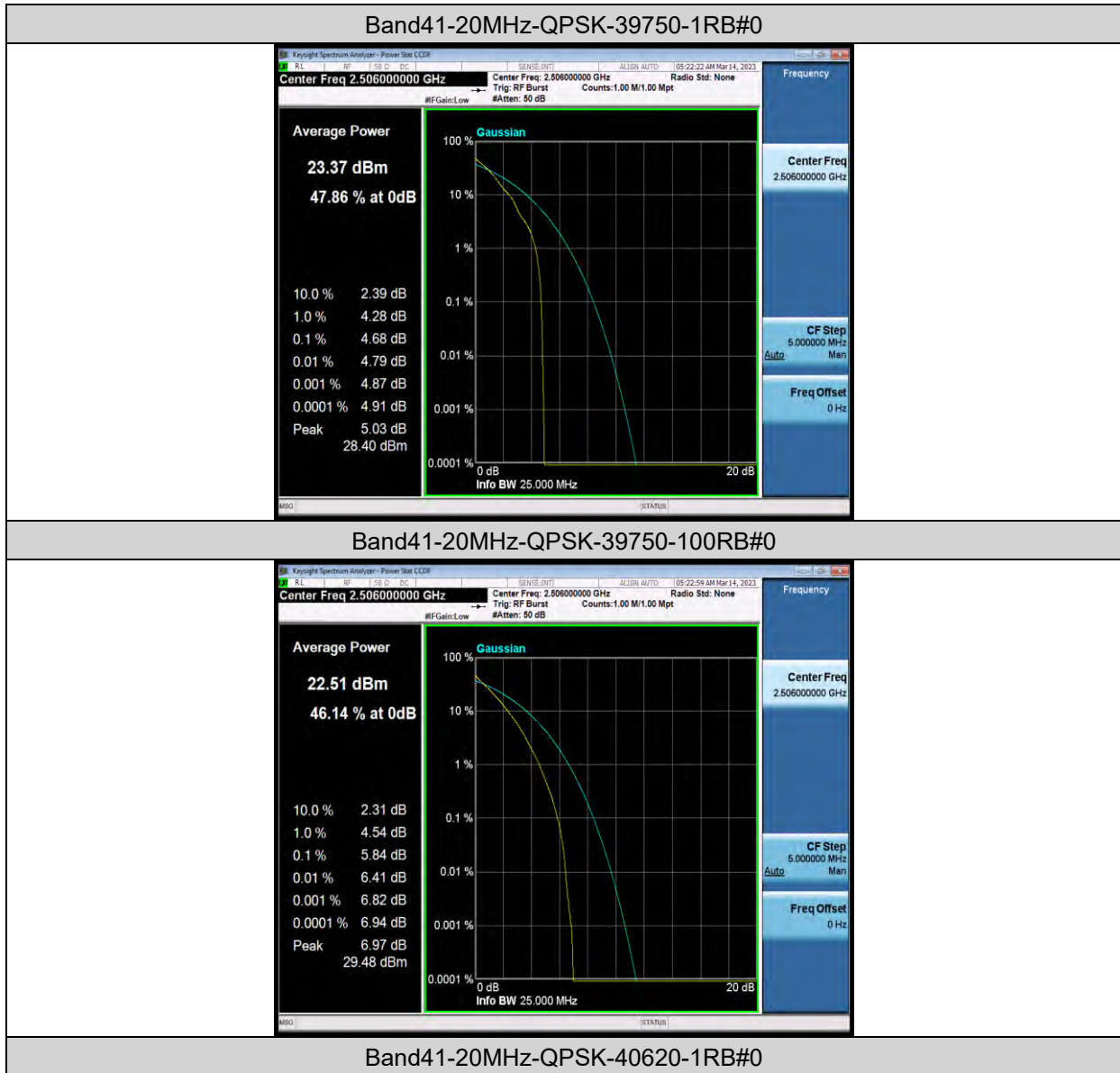
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	1RB#0	4.68	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.84	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	4.62	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.59	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	4.33	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.45	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	5.45	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.52	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	5.72	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.31	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	4.80	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.25	13	PASS
Band41	20MHz	64QAM	39750	1RB#0	6.07	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	6.06	13	PASS
Band41	20MHz	64QAM	40620	1RB#0	6.00	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.26	13	PASS
Band41	20MHz	64QAM	41490	1RB#0	5.79	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	5.85	13	PASS



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Test Graphs



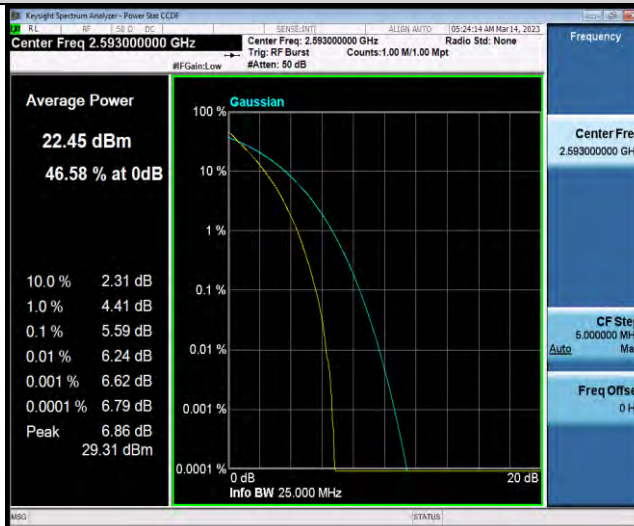


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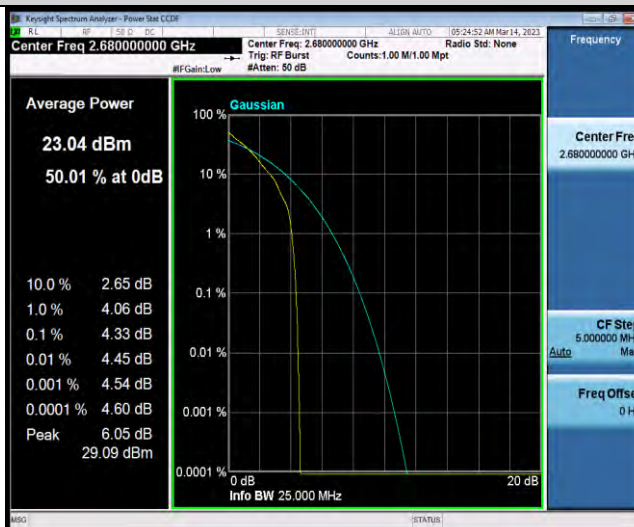
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Band41-20MHz-QPSK-40620-100RB#0



Band41-20MHz-QPSK-41490-1RB#0

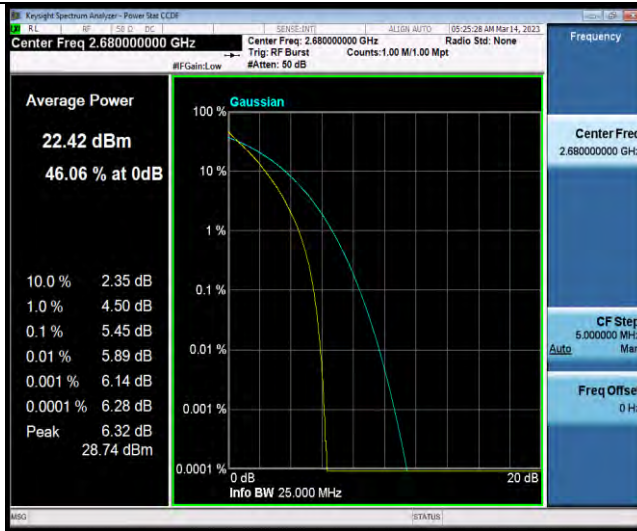


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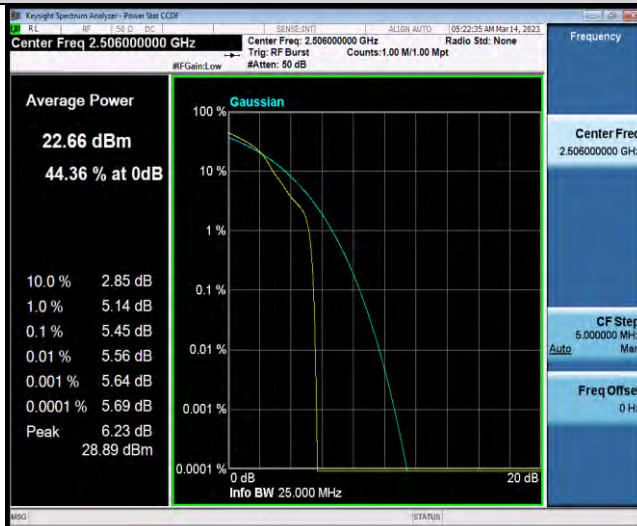


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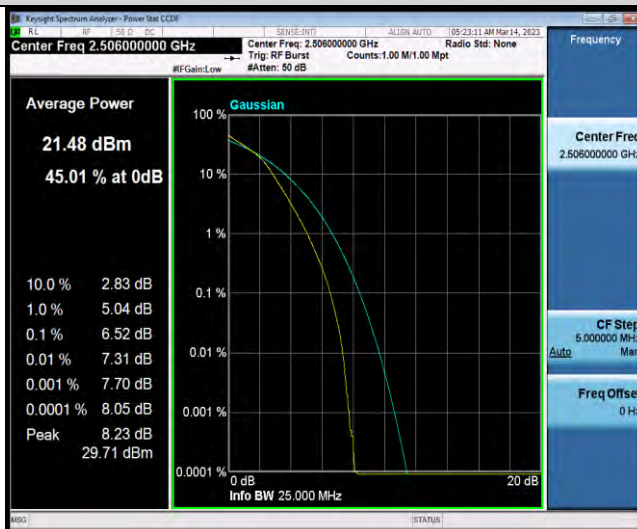
Test Report No.: W7L-P23030004RF06



Band41-20MHz-16QAM-39750-1RB#0



Band41-20MHz-16QAM-39750-100RB#0

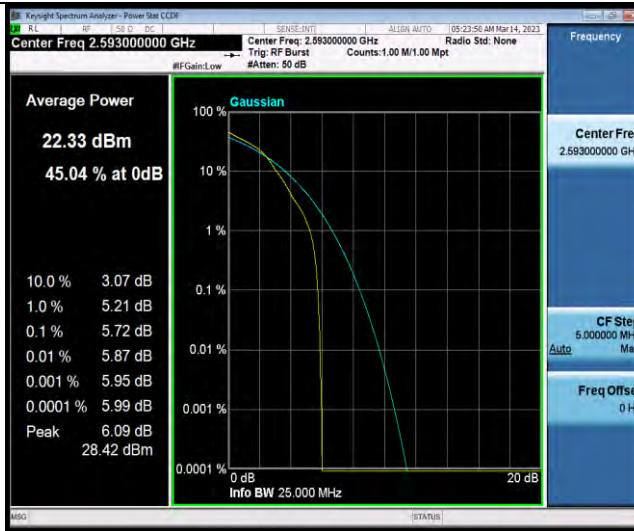


Band41-20MHz-16QAM-40620-1RB#0



BUREAU VERITAS

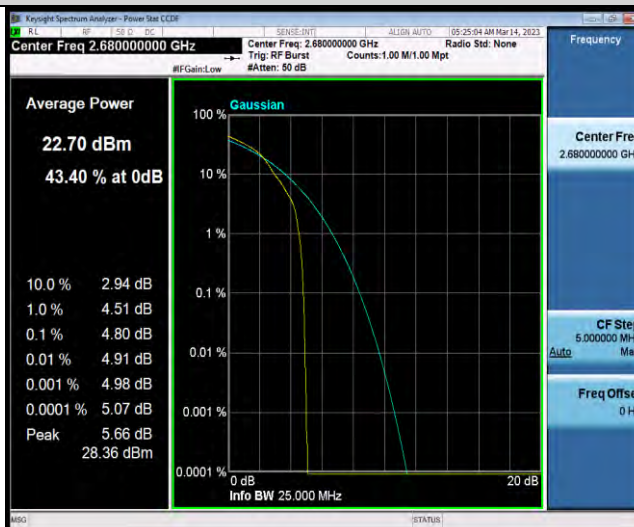
Test Report No.: W7L-P23030004RF06



Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-1RB#0

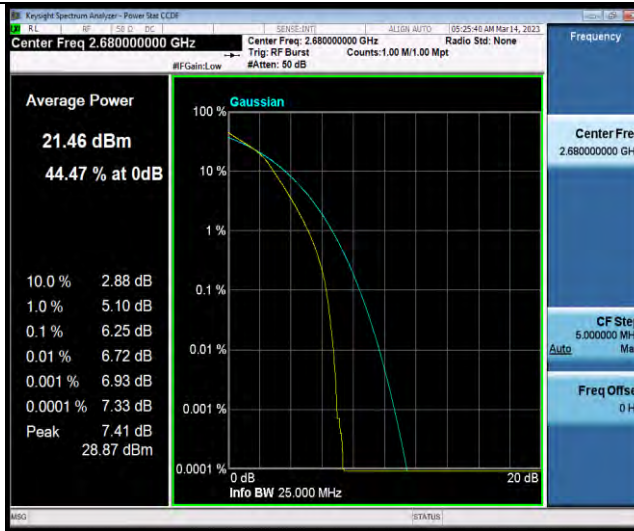


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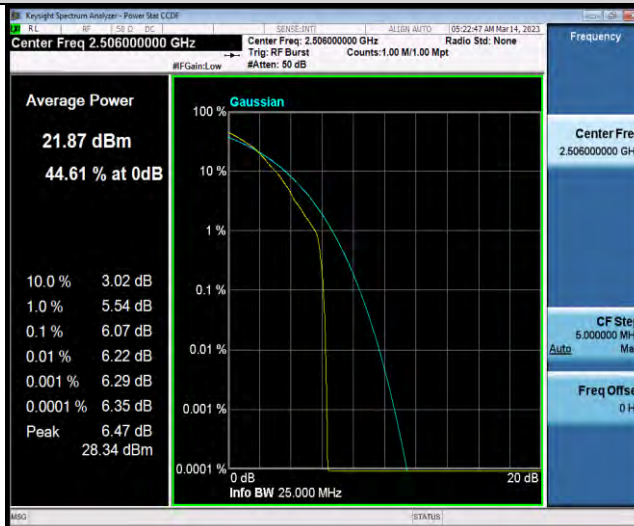


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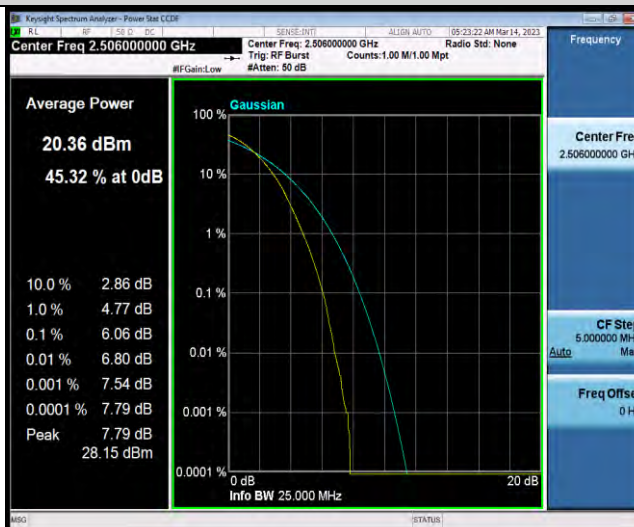
Test Report No.: W7L-P23030004RF06



Band41-20MHz-64QAM-39750-1RB#0



Band41-20MHz-64QAM-39750-100RB#0

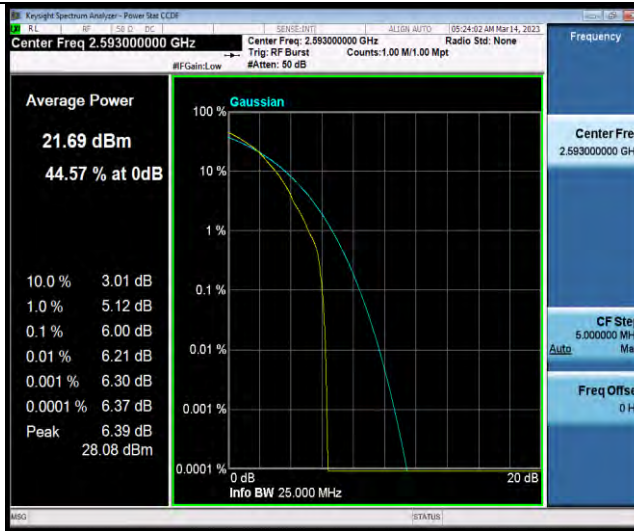


Band41-20MHz-64QAM-40620-1RB#0

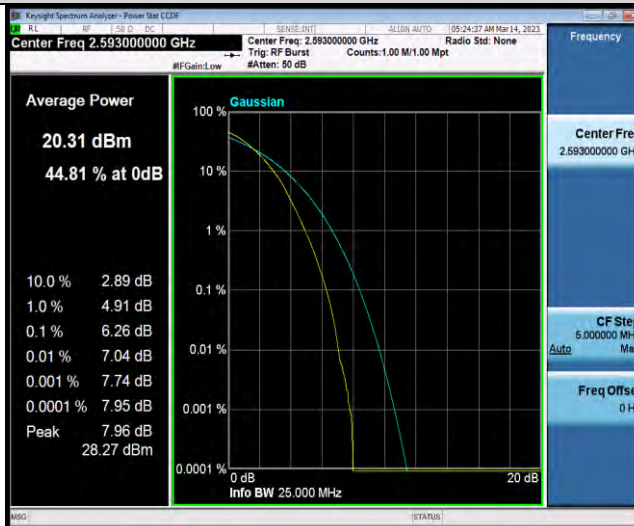


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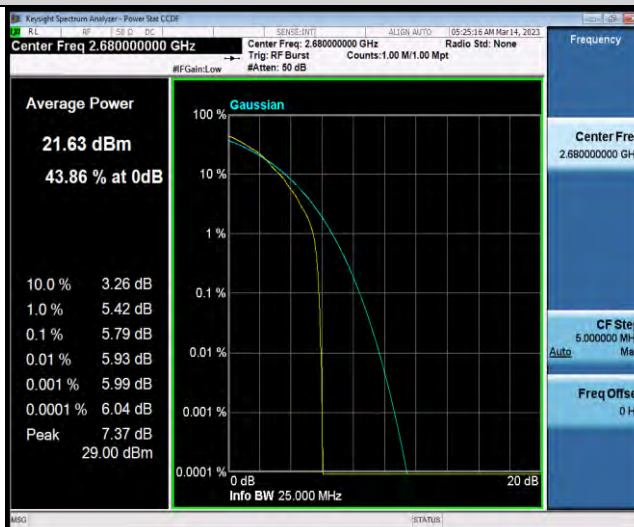
Test Report No.: W7L-P23030004RF06



Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-64QAM-41490-1RB#0

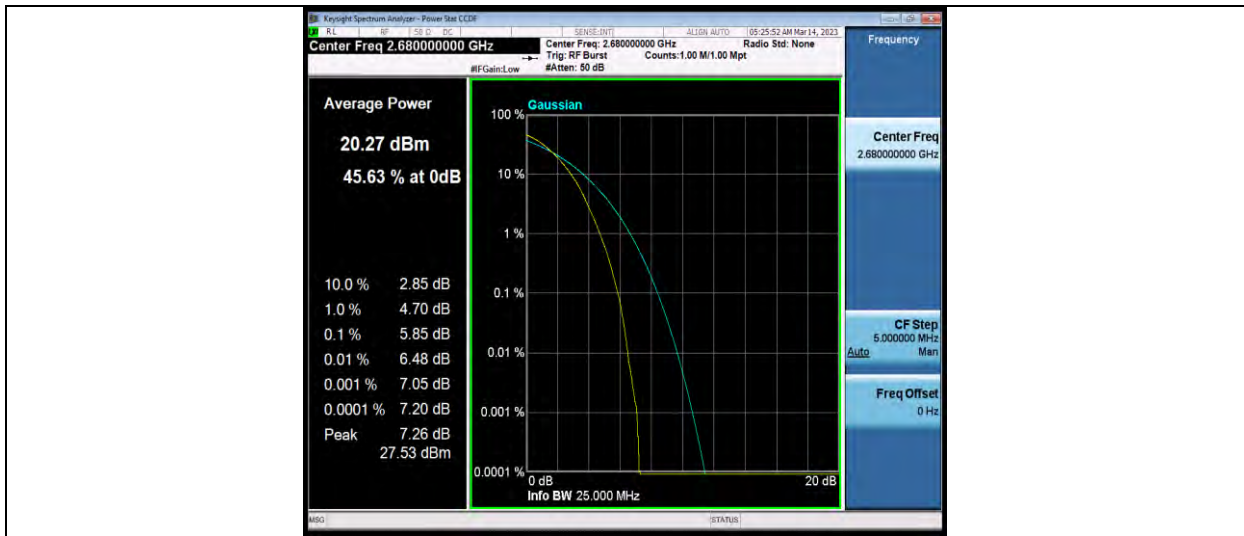


Band41-20MHz-64QAM-41490-100RB#0



BUREAU VERITAS

Test Report No.: W7L-P23030004RF06





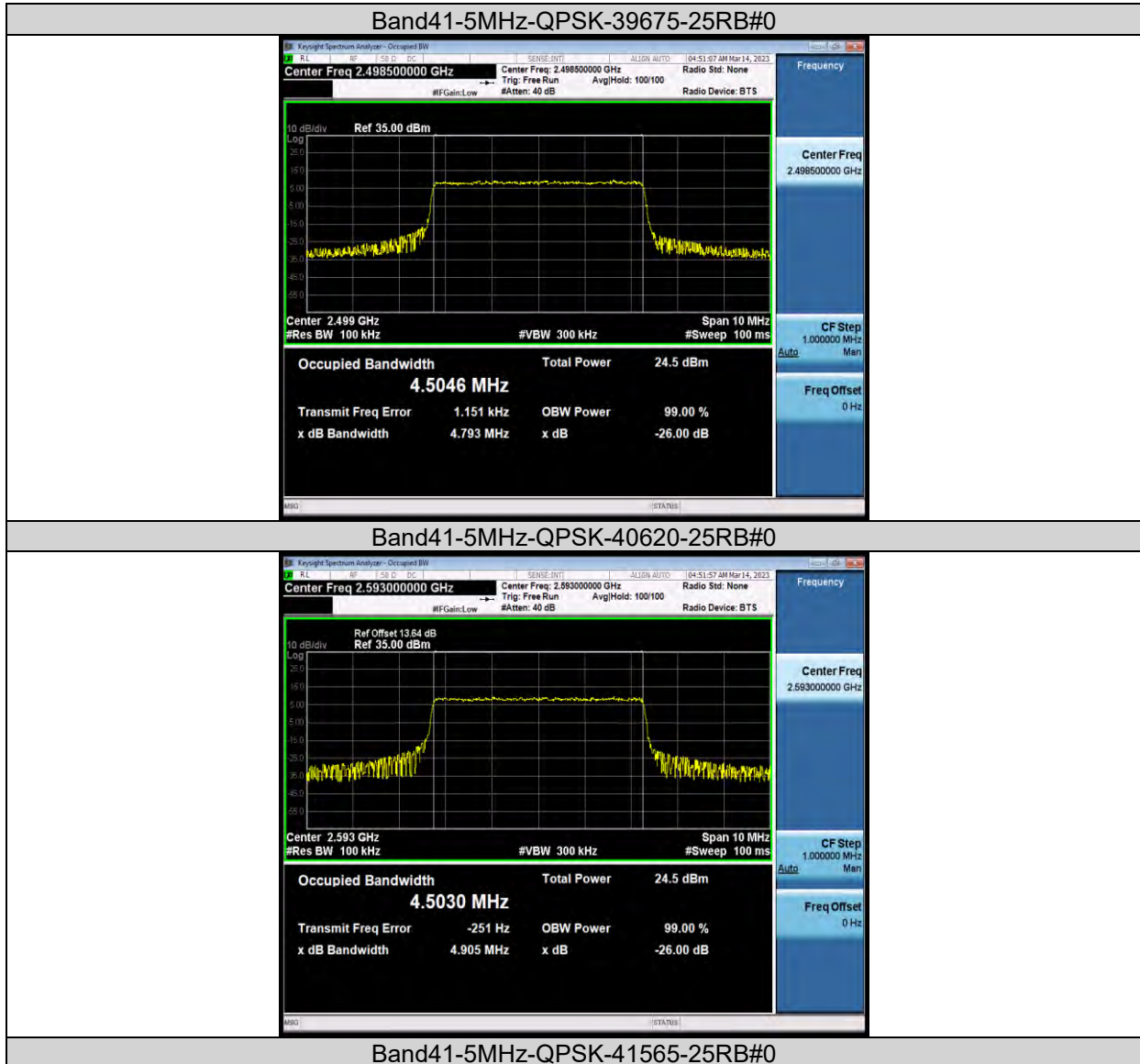
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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5046	4.793	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5030	4.905	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5022	4.832	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4878	4.755	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4869	4.752	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4936	4.761	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.5033	4.780	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.5084	4.769	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.5079	4.783	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9674	9.509	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9718	9.500	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9679	9.499	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9842	9.505	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9695	9.503	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9811	9.494	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.9798	9.507	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.9578	9.517	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.9934	9.522	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.480	14.24	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.479	14.23	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.474	14.25	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.446	14.25	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.467	14.24	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.473	14.24	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.474	14.27	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.464	14.25	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.460	14.25	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.939	18.99	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.940	18.99	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.939	18.98	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.924	18.93	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.923	18.94	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.936	18.93	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.929	18.96	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.961	18.94	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.963	18.96	PASS

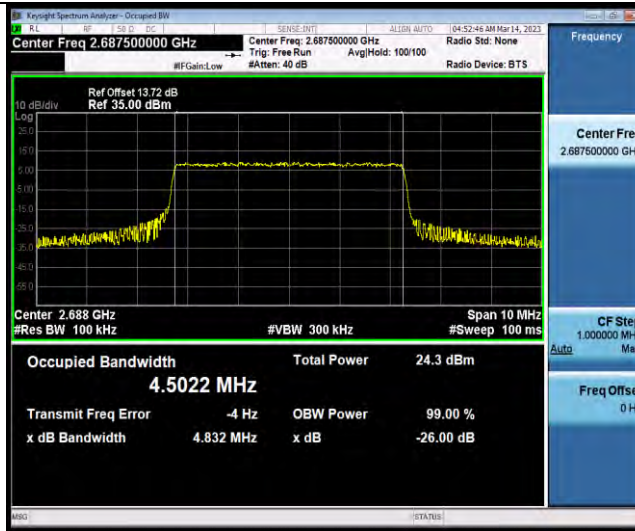
Test Graphs



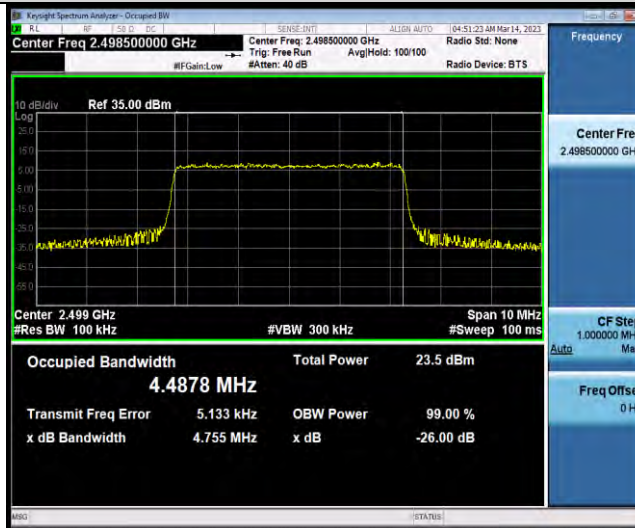


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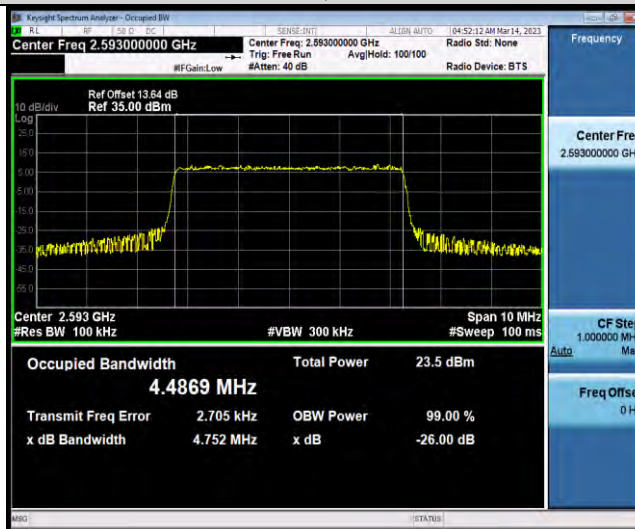
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Band41-5MHz-16QAM-39675-25RB#0



Band41-5MHz-16QAM-40620-25RB#0

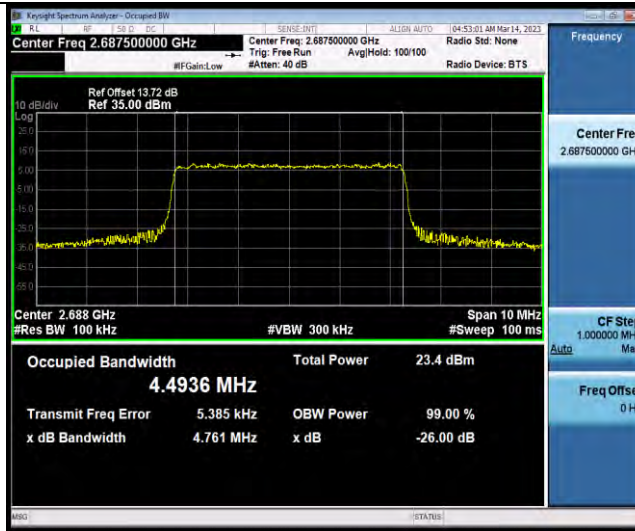


Band41-5MHz-16QAM-41565-25RB#0



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Band41-5MHz-64QAM-39675-25RB#0



Band41-5MHz-64QAM-40620-25RB#0

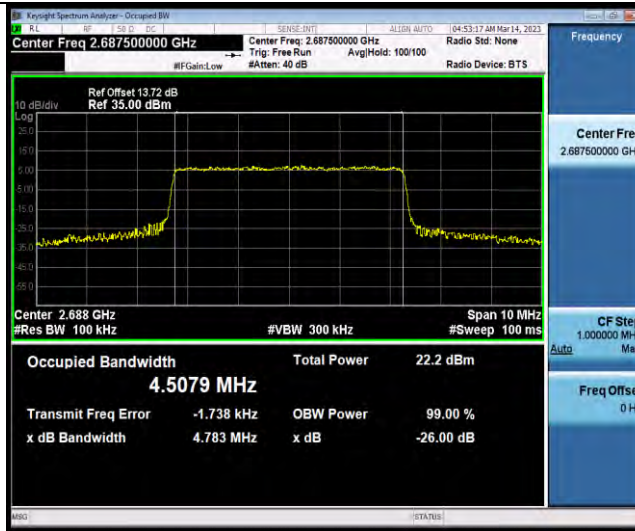


Band41-5MHz-64QAM-41565-25RB#0

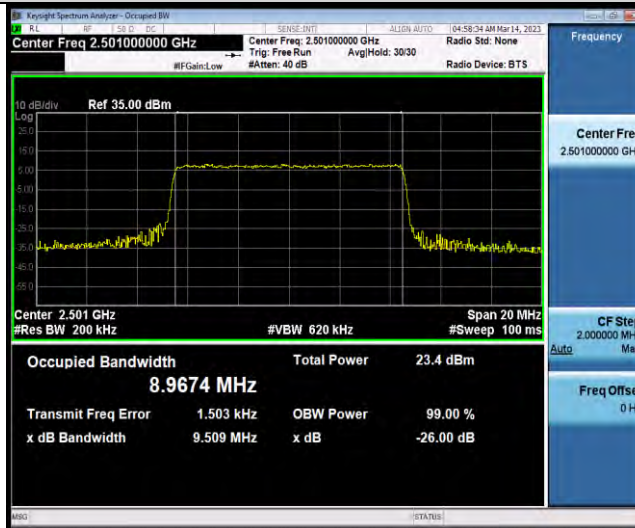


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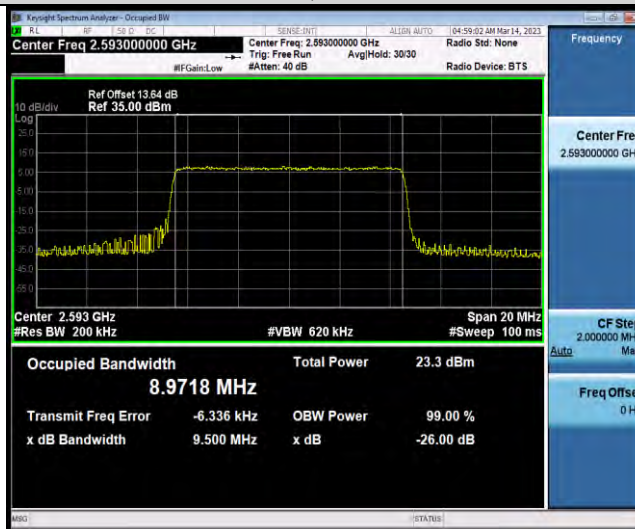
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Band41-10MHz-QPSK-39700-50RB#0



Band41-10MHz-QPSK-40620-50RB#0

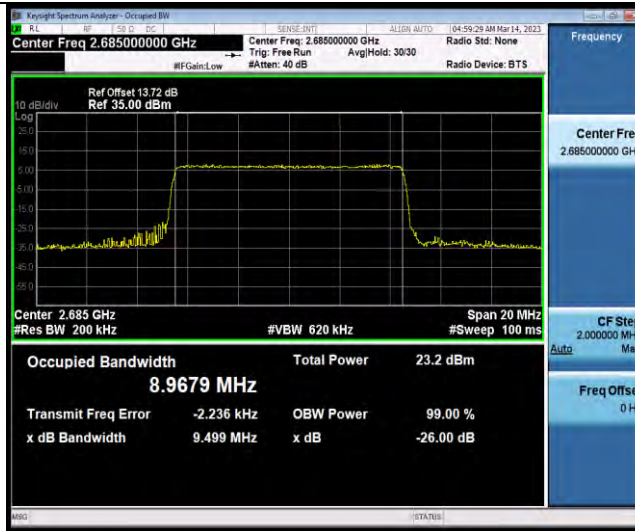


Band41-10MHz-QPSK-41540-50RB#0

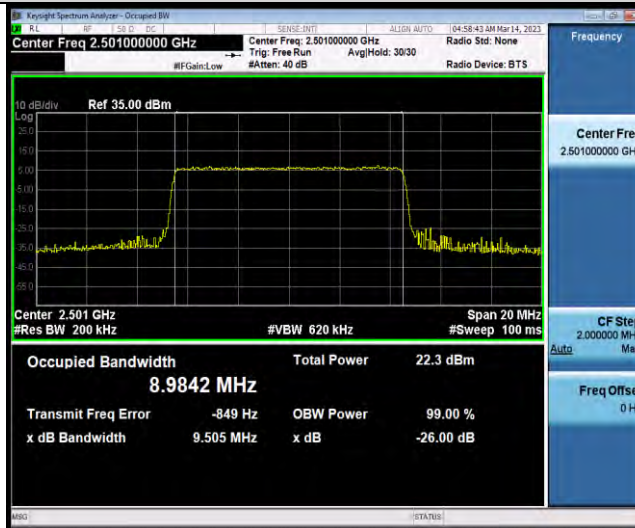


BUREAU VERITAS

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Band41-10MHz-16QAM-39700-50RB#0



Band41-10MHz-16QAM-40620-50RB#0

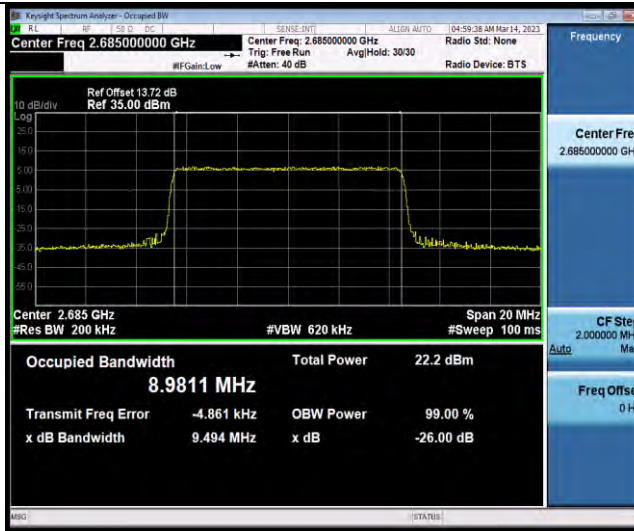


Band41-10MHz-16QAM-41540-50RB#0



BUREAU VERITAS

Test Report No.: W7L-P23030004RF06



Band41-10MHz-64QAM-39700-50RB#0



Band41-10MHz-64QAM-40620-50RB#0



Band41-10MHz-64QAM-41540-50RB#0

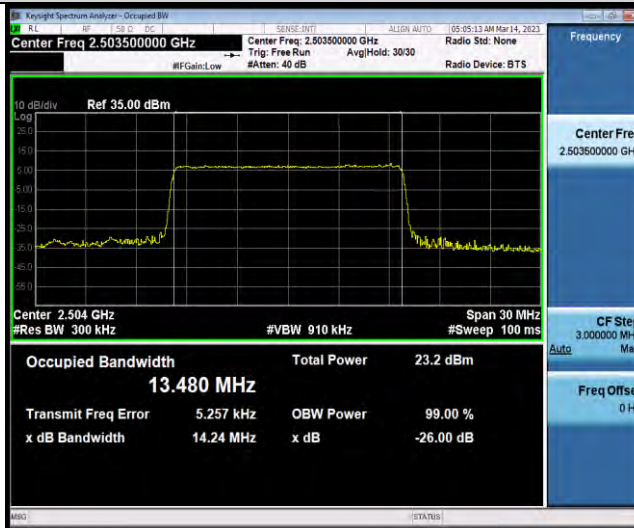


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Band41-15MHz-QPSK-39725-75RB#0



Band41-15MHz-QPSK-40620-75RB#0

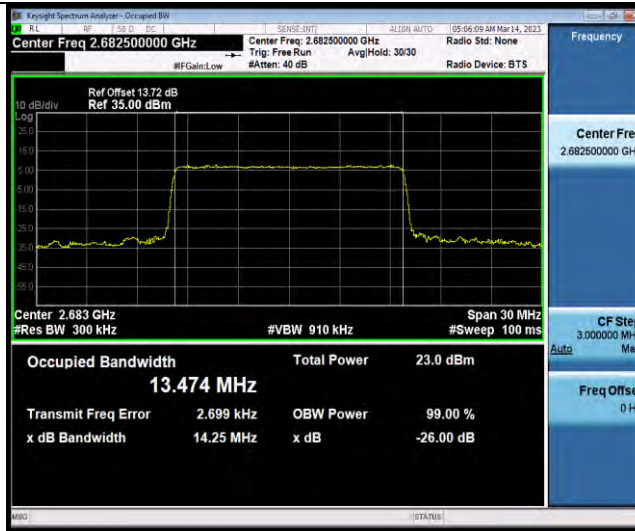


Band41-15MHz-QPSK-41515-75RB#0

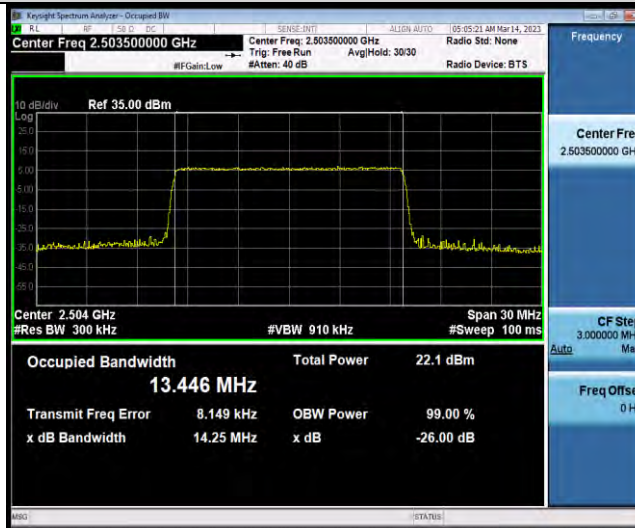


BUREAU VERITAS

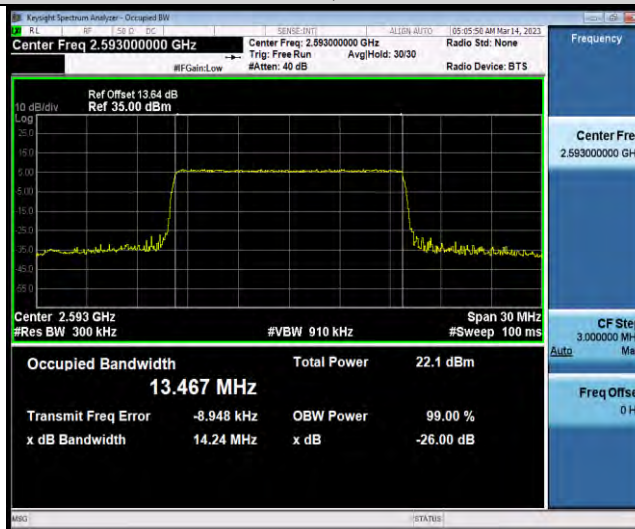
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Band41-15MHz-16QAM-39725-75RB#0



Band41-15MHz-16QAM-40620-75RB#0



Band41-15MHz-16QAM-41515-75RB#0



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Band41-15MHz-64QAM-39725-75RB#0



Band41-15MHz-64QAM-40620-75RB#0

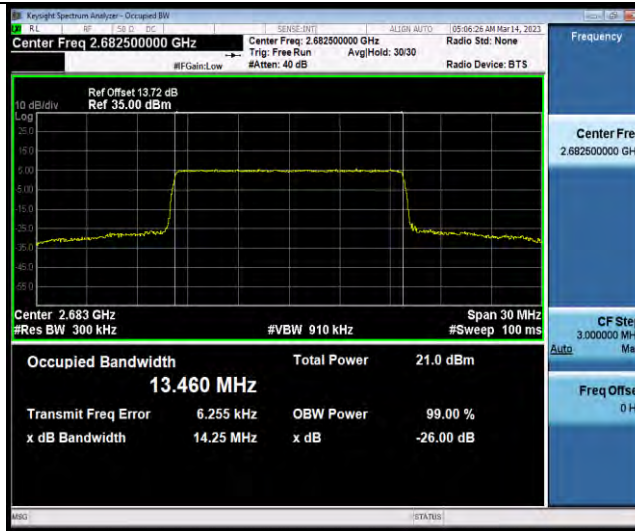


Band41-15MHz-64QAM-41515-75RB#0

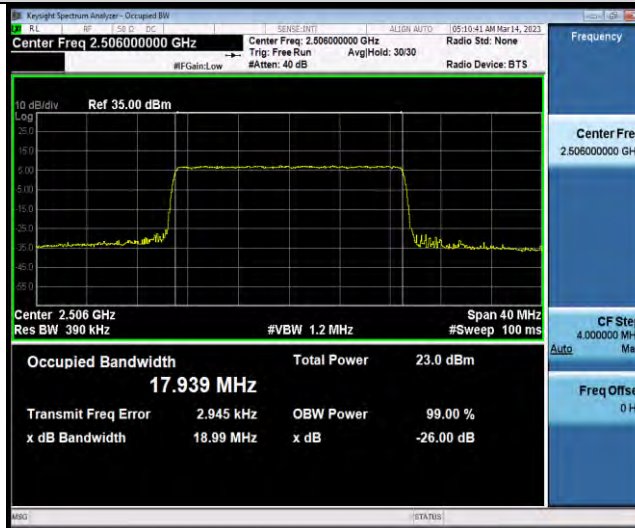


BUREAU VERITAS

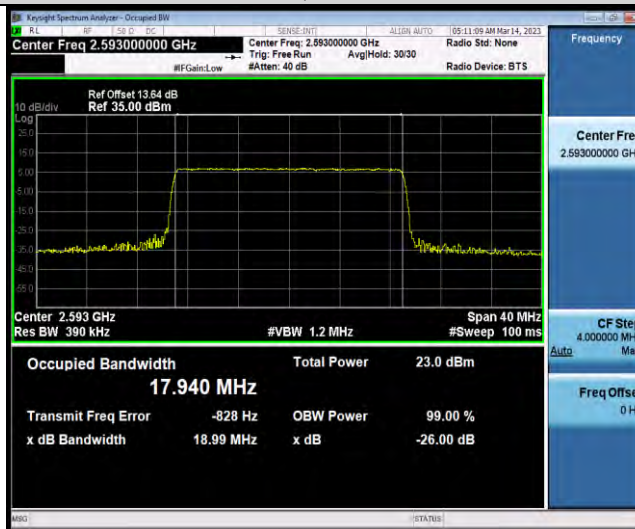
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Band41-20MHz-QPSK-39750-100RB#0



Band41-20MHz-QPSK-40620-100RB#0

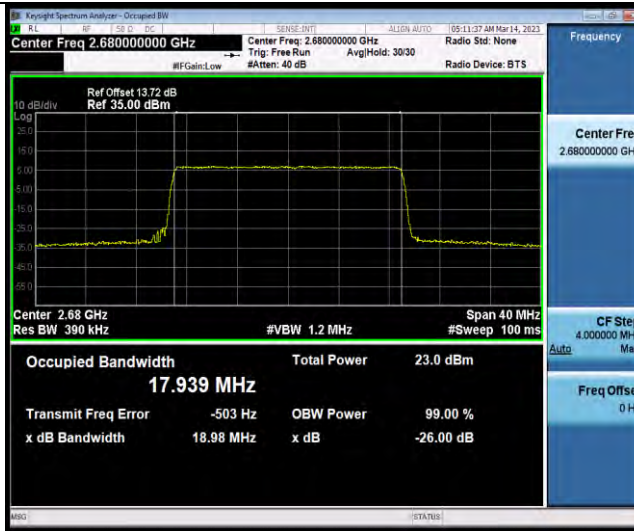


Band41-20MHz-QPSK-41490-100RB#0



BUREAU VERITAS

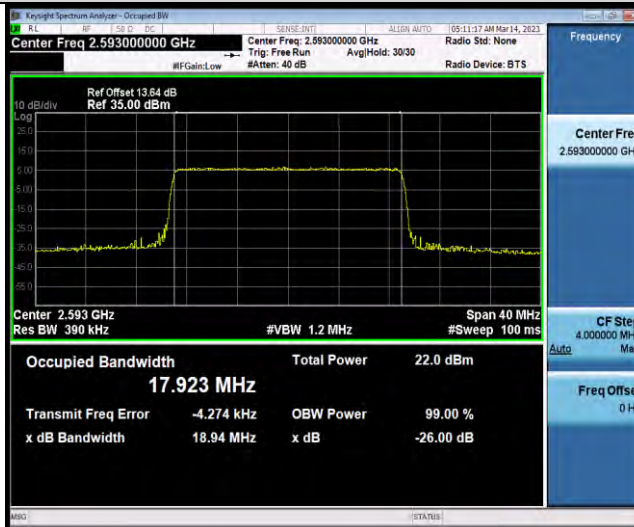
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Band41-20MHz-16QAM-39750-100RB#0



Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0



BUREAU VERITAS

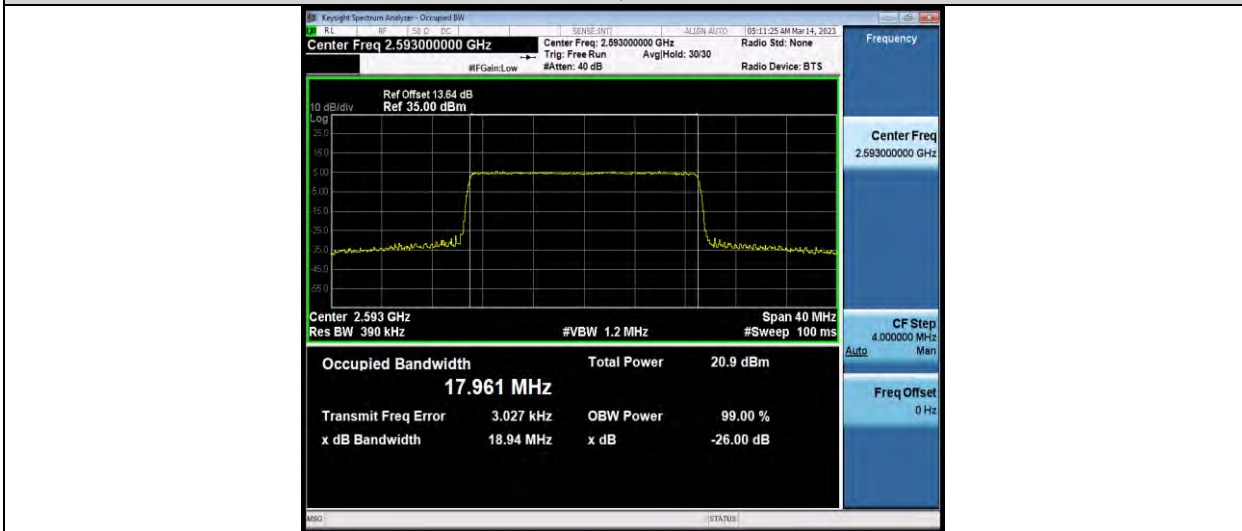
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Band41-20MHz-64QAM-39750-100RB#0



Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-64QAM-41490-100RB#0



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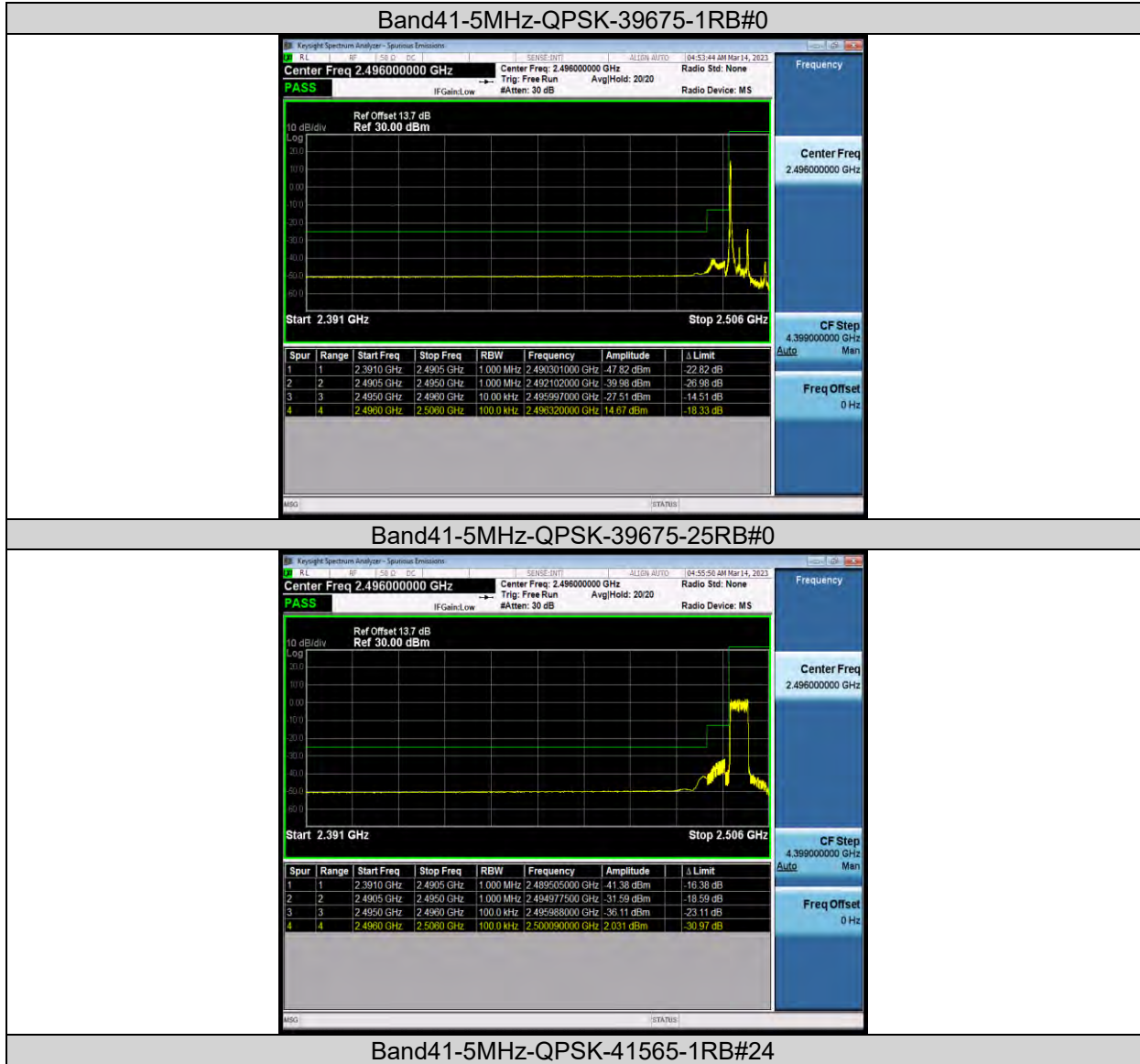
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-47.82,-39.98,-27.51	PASS
Band41	5MHz	QPSK	39675	25RB#0	-41.38,-31.59,-36.11	PASS
Band41	5MHz	QPSK	41565	1RB#24	-31.67,-41.72,-46.39,-47.23	PASS
Band41	5MHz	QPSK	41565	25RB#0	-35.43,-31.78,-40.85,-41.25	PASS
Band41	5MHz	16QAM	39675	1RB#0	-47.25,-40.65,-33.14	PASS
Band41	5MHz	16QAM	39675	25RB#0	-43.78,-33.29,-38.44	PASS
Band41	5MHz	16QAM	41565	1RB#24	-30.24,-42.02,-46.16,-47.13	PASS
Band41	5MHz	16QAM	41565	25RB#0	-37.15,-31.66,-39.68,-43.05	PASS
Band41	5MHz	64QAM	39675	1RB#0	-47.92,-40.96,-30.72	PASS
Band41	5MHz	64QAM	39675	25RB#0	-47.15,-29.52,-35.36	PASS
Band41	5MHz	64QAM	41565	1RB#24	-30.19,-42.58,-46.13,-47.55	PASS
Band41	5MHz	64QAM	41565	25RB#0	-34.62,-28.29,-41.60,-44.18	PASS
Band41	10MHz	QPSK	39700	1RB#0	-44.92,-43.30,-35.06	PASS
Band41	10MHz	QPSK	39700	50RB#0	-36.07,-33.94,-36.78	PASS
Band41	10MHz	QPSK	41540	1RB#49	-36.80,-43.22,-44.84,-48.41	PASS
Band41	10MHz	QPSK	41540	50RB#0	-36.21,-34.08,-34.84,-42.48	PASS
Band41	10MHz	16QAM	39700	1RB#0	-43.43,-42.79,-36.12	PASS
Band41	10MHz	16QAM	39700	50RB#0	-38.08,-33.83,-38.61	PASS
Band41	10MHz	16QAM	41540	1RB#49	-36.22,-43.78,-44.32,-48.47	PASS
Band41	10MHz	16QAM	41540	50RB#0	-37.59,-34.56,-35.80,-42.91	PASS
Band41	10MHz	64QAM	39700	1RB#0	-44.95,-43.74,-37.26	PASS
Band41	10MHz	64QAM	39700	50RB#0	-37.70,-29.35,-32.74	PASS
Band41	10MHz	64QAM	41540	1RB#49	-39.16,-43.67,-44.89,-48.16	PASS
Band41	10MHz	64QAM	41540	50RB#0	-31.33,-29.27,-33.68,-45.20	PASS
Band41	15MHz	QPSK	39725	1RB#0	-46.30,-42.36,-39.12	PASS
Band41	15MHz	QPSK	39725	75RB#0	-33.06,-32.57,-37.56	PASS
Band41	15MHz	QPSK	41515	1RB#74	-40.78,-42.32,-43.19,-48.96	PASS
Band41	15MHz	16QAM	39725	1RB#0	-44.69,-43.08,-41.60	PASS
Band41	15MHz	16QAM	39725	75RB#0	-35.04,-34.54,-39.23	PASS
Band41	15MHz	16QAM	41515	1RB#74	-38.42,-43.60,-42.50,-48.87	PASS
Band41	15MHz	64QAM	39725	1RB#0	-44.61,-43.80,-42.14	PASS
Band41	15MHz	64QAM	39725	75RB#0	-35.69,-30.81,-34.66	PASS
Band41	15MHz	64QAM	41515	1RB#74	-41.28,-43.37,-44.17,-48.66	PASS
Band41	20MHz	QPSK	39750	1RB#0	-46.05,-44.61,-40.90	PASS
Band41	20MHz	QPSK	39750	100RB#0	-35.95,-35.21,-39.58	PASS
Band41	20MHz	QPSK	41490	1RB#99	-41.69,-44.50,-43.33,-46.77	PASS
Band41	20MHz	QPSK	41490	100RB#0	-38.54,-34.29,-36.37,-42.83	PASS
Band41	20MHz	16QAM	39750	1RB#0	-46.57,-44.51,-41.98	PASS
Band41	20MHz	16QAM	39750	100RB#0	-36.84,-36.11,-40.46	PASS
Band41	20MHz	16QAM	41490	1RB#99	-40.71,-45.14,-43.50,-47.96	PASS
Band41	20MHz	16QAM	41490	100RB#0	-39.15,-34.83,-36.30,-44.26	PASS
Band41	20MHz	64QAM	39750	1RB#0	-46.10,-45.63,-40.81	PASS
Band41	20MHz	64QAM	39750	100RB#0	-35.70,-32.99,-36.44	PASS
Band41	20MHz	64QAM	41490	1RB#99	-42.71,-45.27,-44.77,-48.55	PASS
Band41	20MHz	64QAM	41490	100RB#0	-34.56,-30.95,-32.98,-46.94	PASS



Test Graphs





BUREAU VERITAS

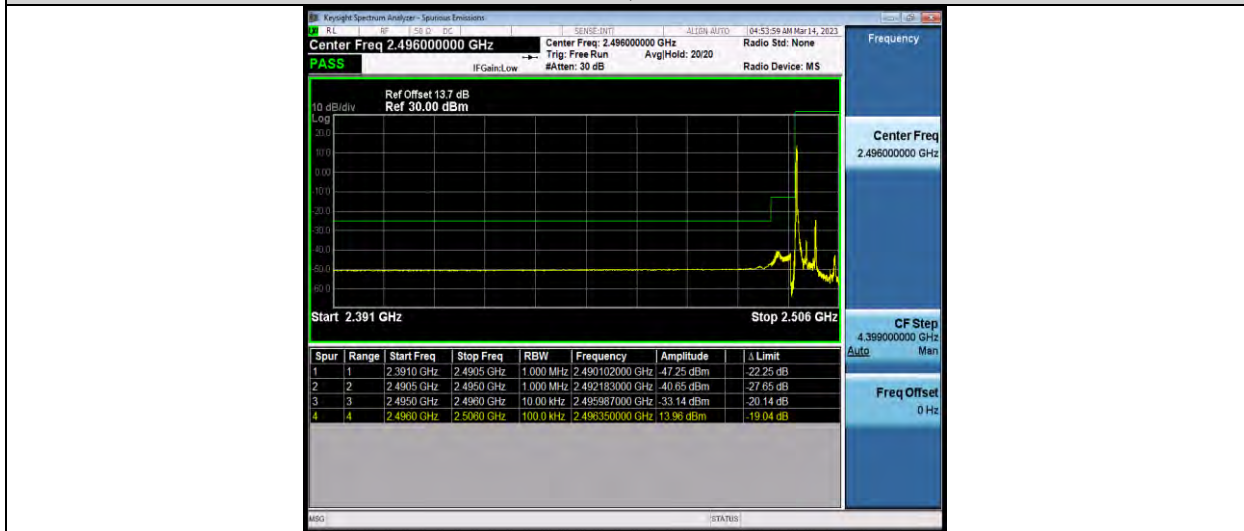
Test Report No.: W7L-P23030004RF06



Band41-5MHz-QPSK-41565-25RB#0



Band41-5MHz-16QAM-39675-1RB#0

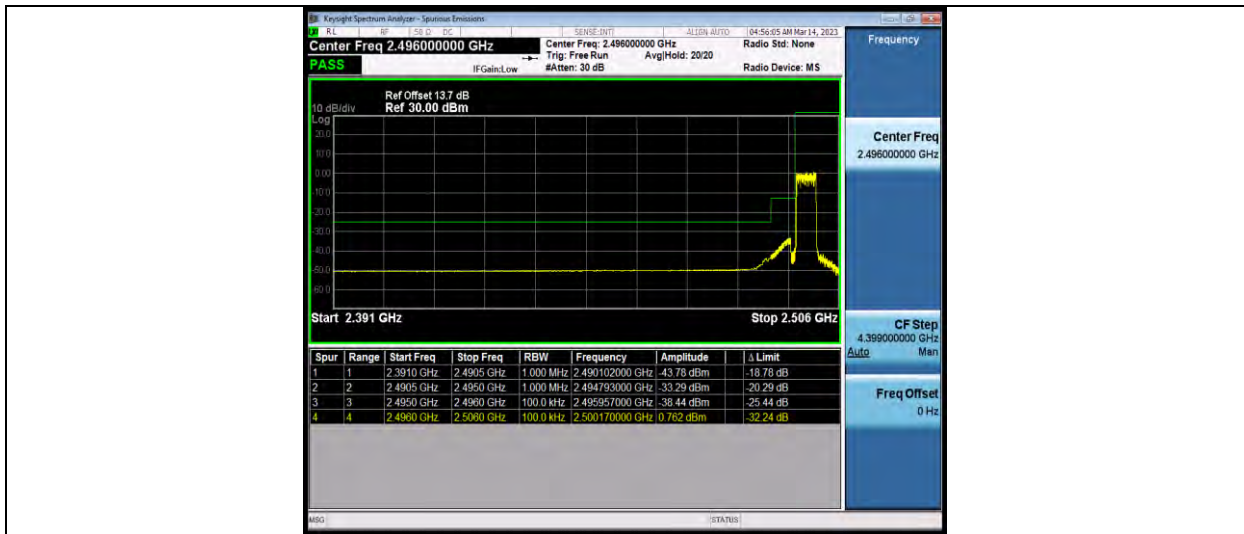


Band41-5MHz-16QAM-39675-25RB#0



BUREAU VERITAS

Test Report No.: W7L-P23030004RF06



Band41-5MHz-16QAM-41565-1RB#24



Band41-5MHz-16QAM-41565-25RB#0

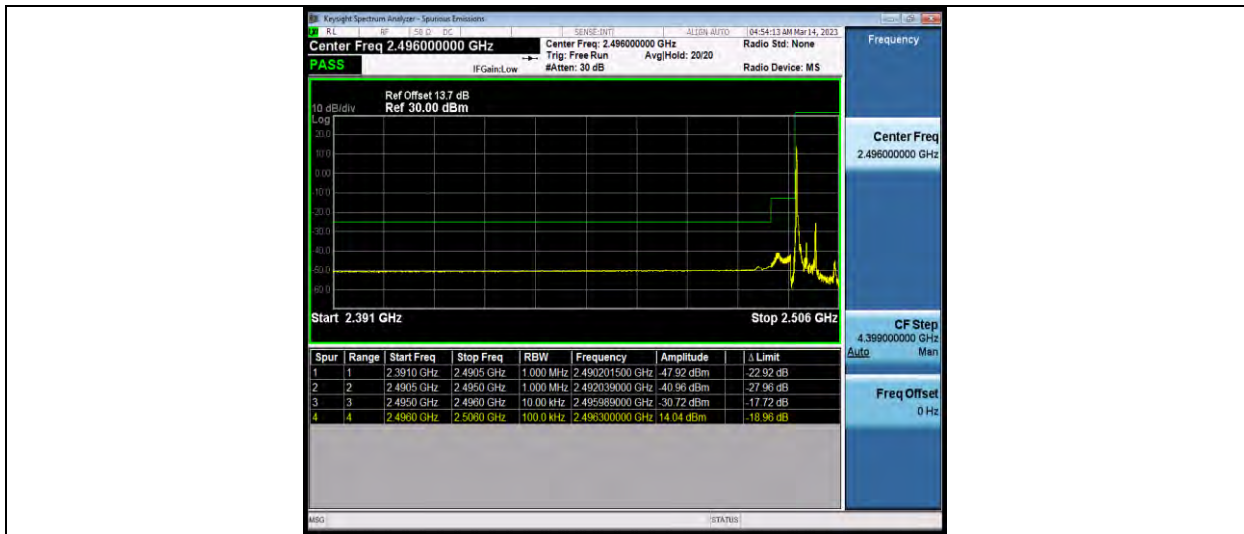


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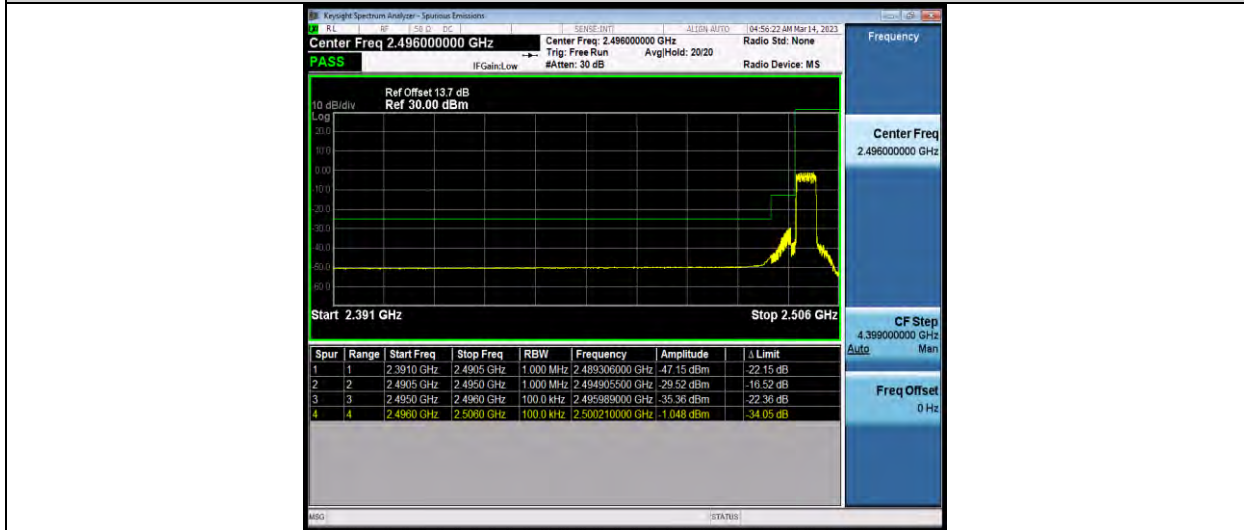


BUREAU VERITAS

Test Report No.: W7L-P23030004RF06



Band1-5MHz-64QAM-39675-25RB#0



Band1-5MHz-64QAM-41565-1RB#24



Band1-5MHz-64QAM-41565-25RB#0

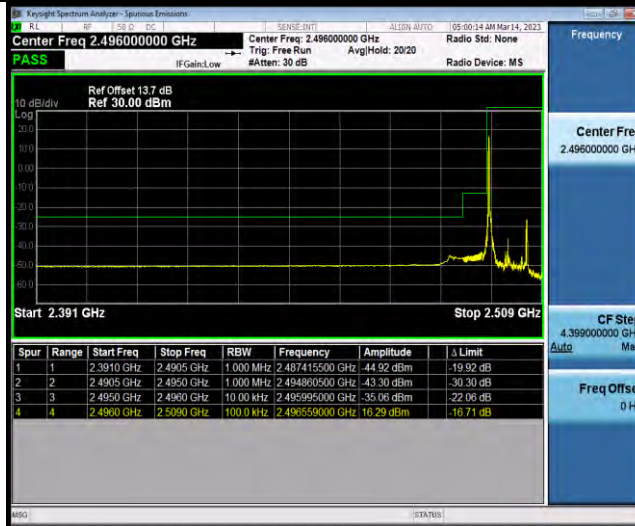


BUREAU VERITAS

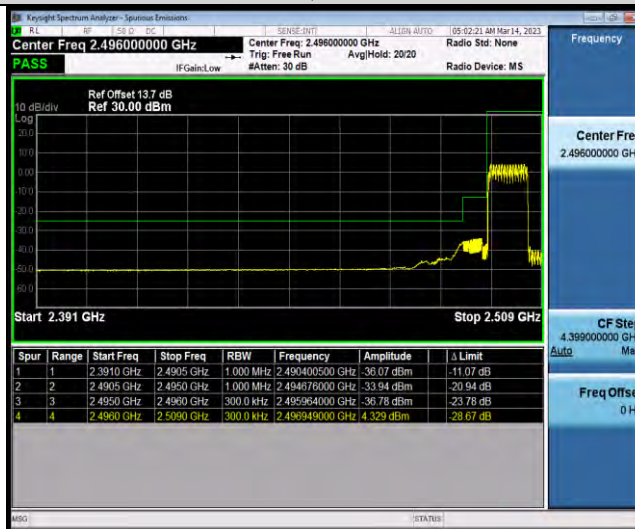
Test Report No.: W7L-P23030004RF06



Band41-10MHz-QPSK-39700-1RB#0



Band41-10MHz-QPSK-39700-50RB#0



Band41-10MHz-QPSK-41540-1RB#49



BUREAU VERITAS

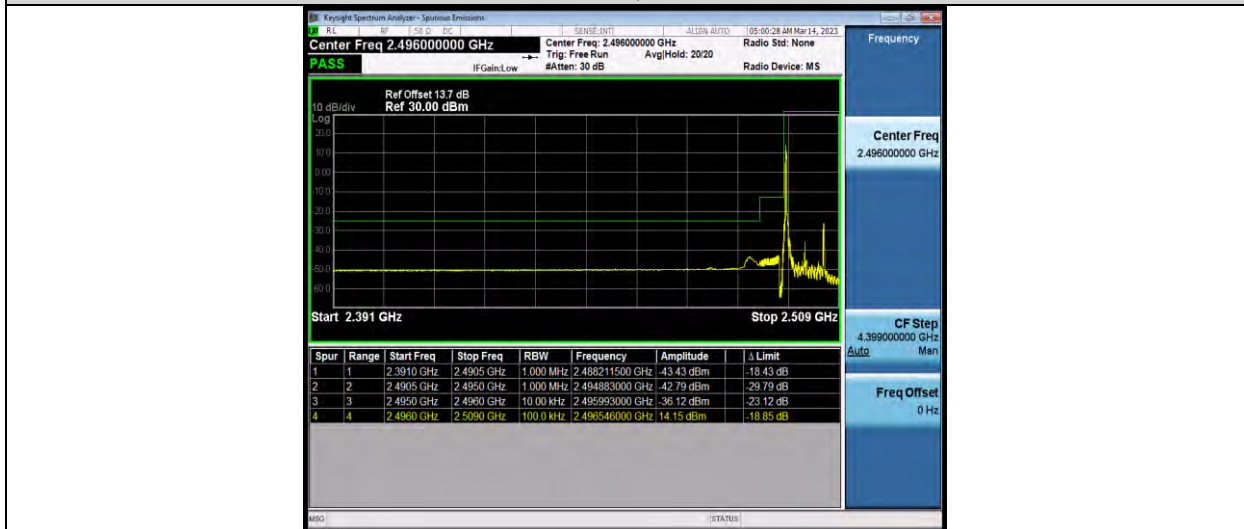
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Band41-10MHz-QPSK-41540-50RB#0



Band41-10MHz-16QAM-39700-1RB#0

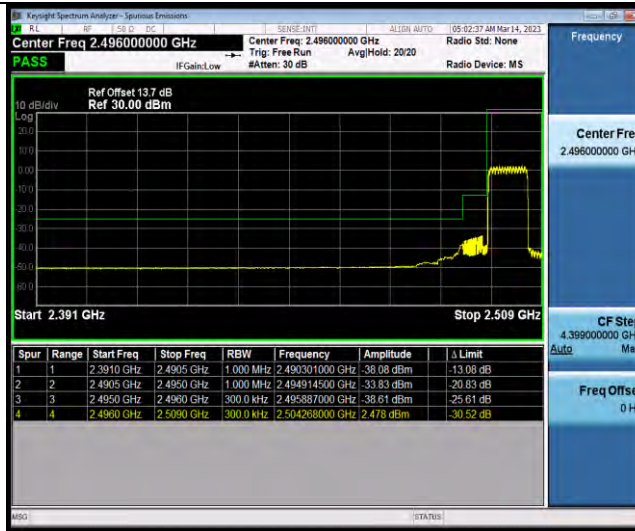


Band41-10MHz-16QAM-39700-50RB#0



BUREAU VERITAS

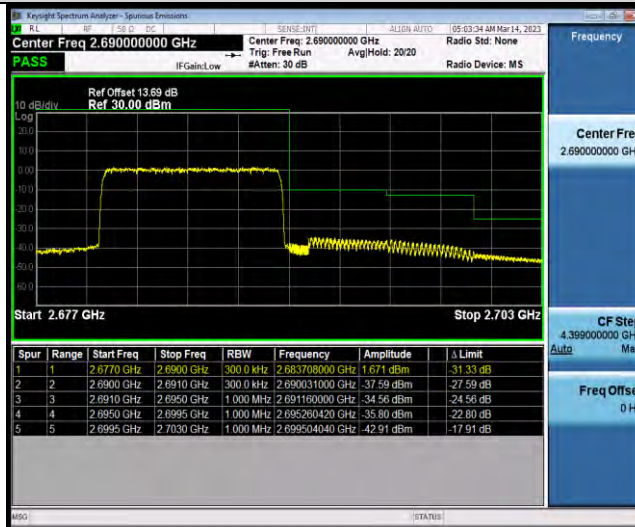
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Band41-10MHz-16QAM-41540-50RB#0

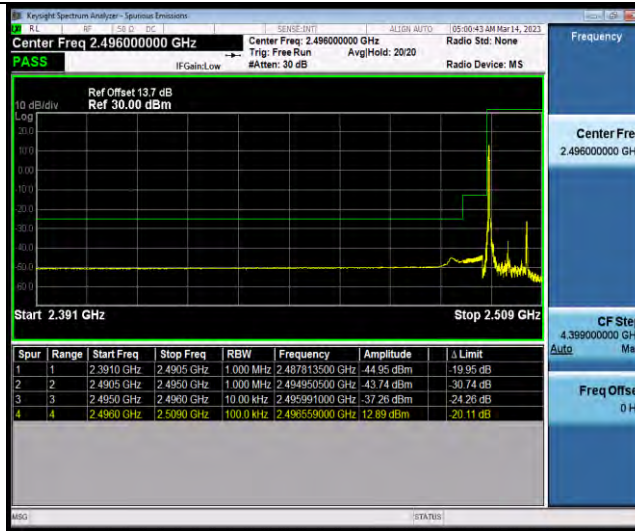


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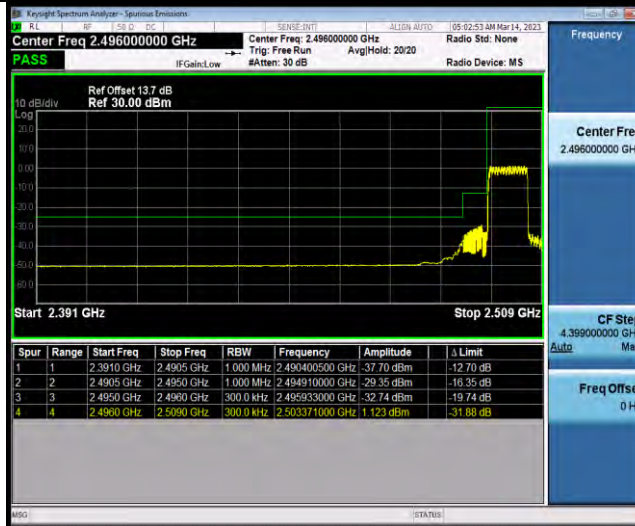


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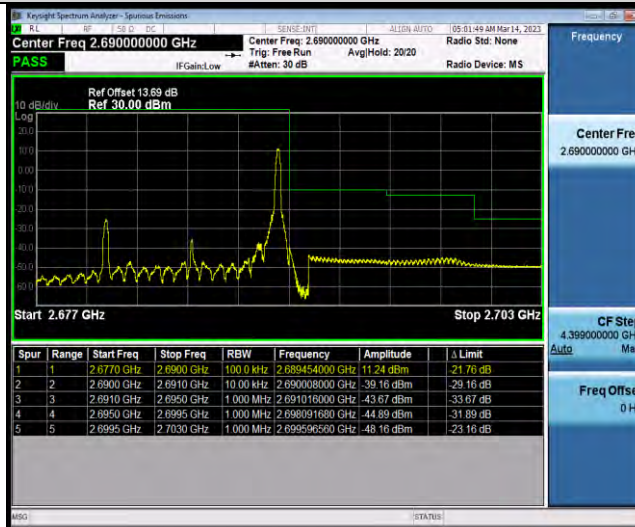
Test Report No.: W7L-P23030004RF06



Band41-10MHz-64QAM-39700-50RB#0



Band41-10MHz-64QAM-41540-1RB#49

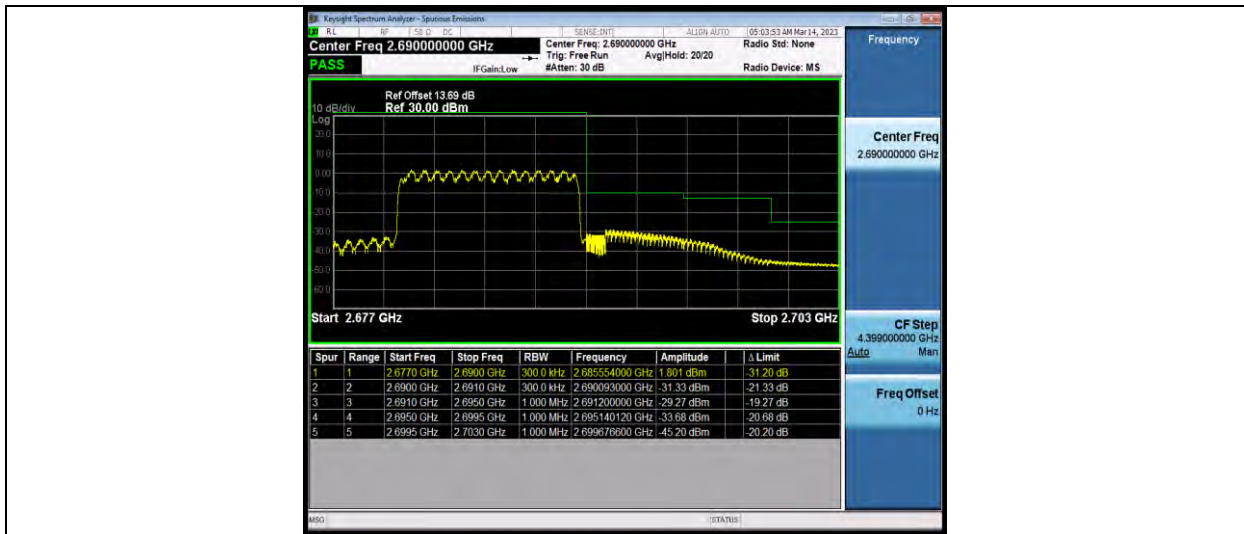


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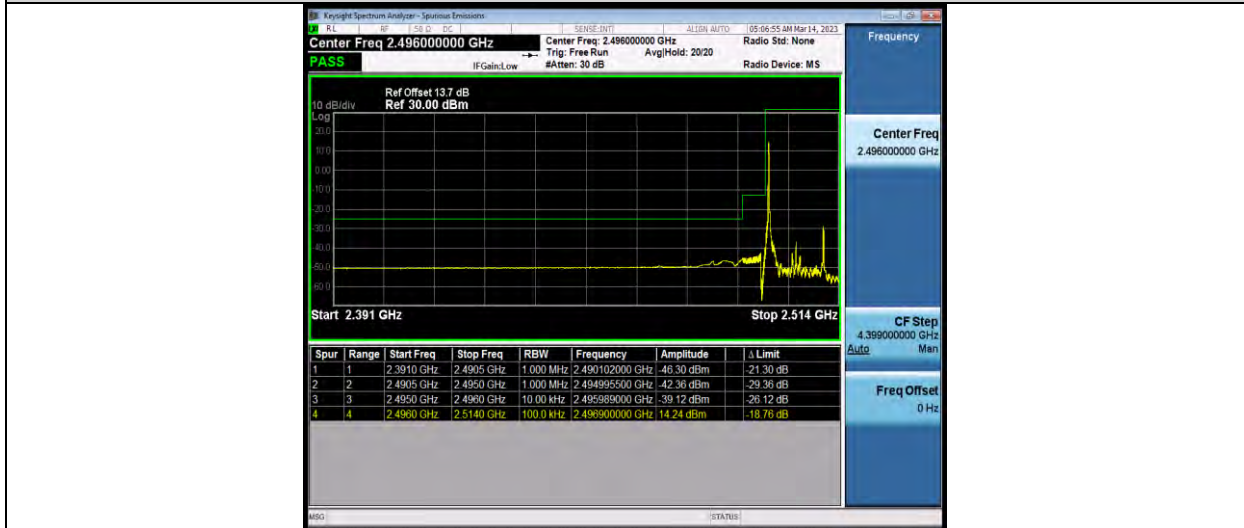


BUREAU VERITAS

Test Report No.: W7L-P23030004RF06



Band41-15MHz-QPSK-39725-1RB#0



Band41-15MHz-QPSK-39725-75RB#0

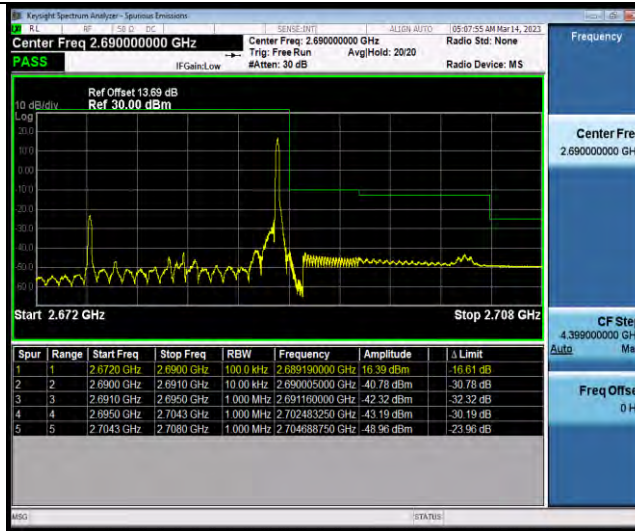


Band41-15MHz-QPSK-41515-1RB#74

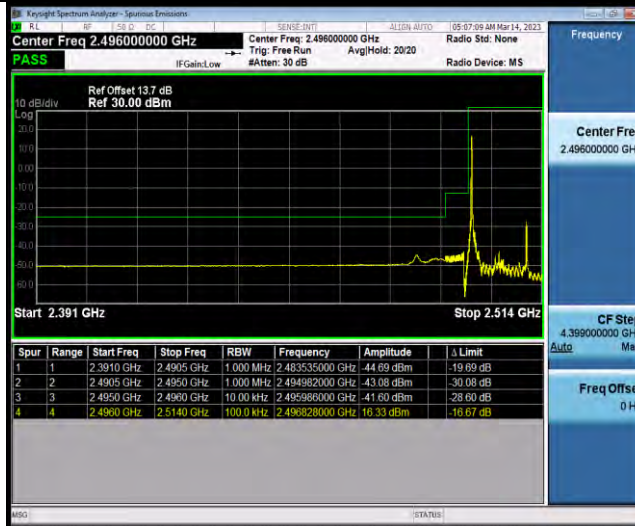


BUREAU VERITAS

Test Report No.: W7L-P23030004RF06



Band41-15MHz-16QAM-39725-1RB#0



Band41-15MHz-16QAM-39725-75RB#0



Band41-15MHz-16QAM-41515-1RB#74

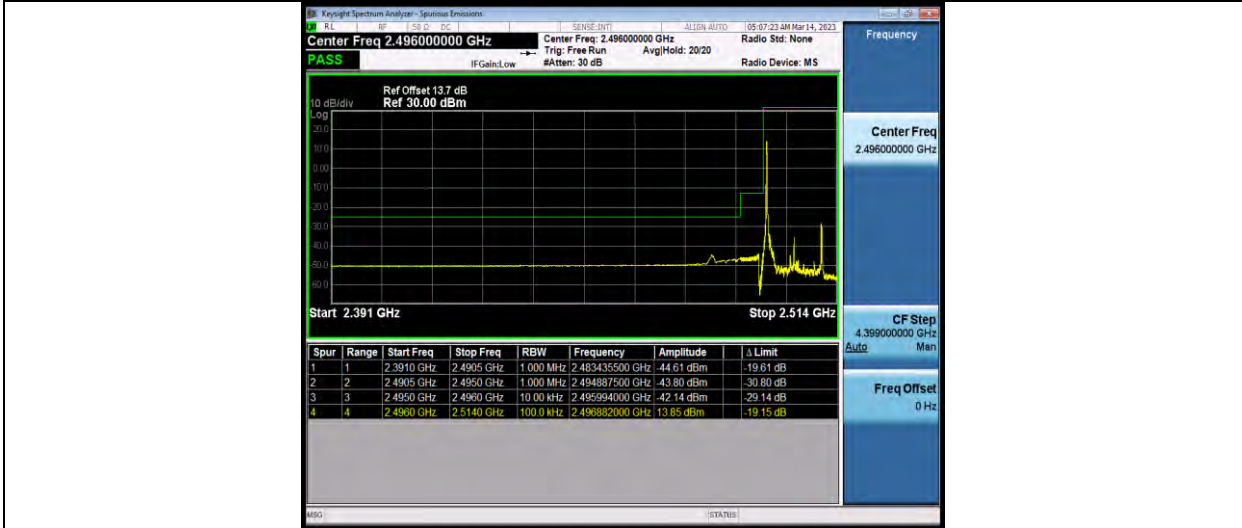


BUREAU VERITAS

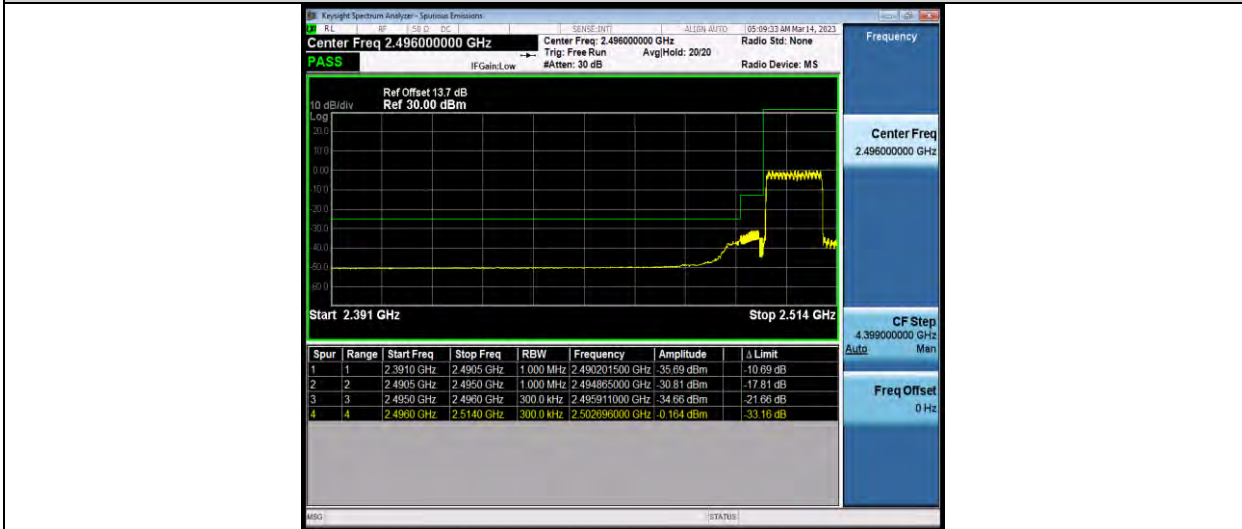
Test Report No.: W7L-P23030004RF06



Band41-15MHz-64QAM-39725-1RB#0



Band41-15MHz-64QAM-39725-75RB#0



Band41-15MHz-64QAM-41515-1RB#74

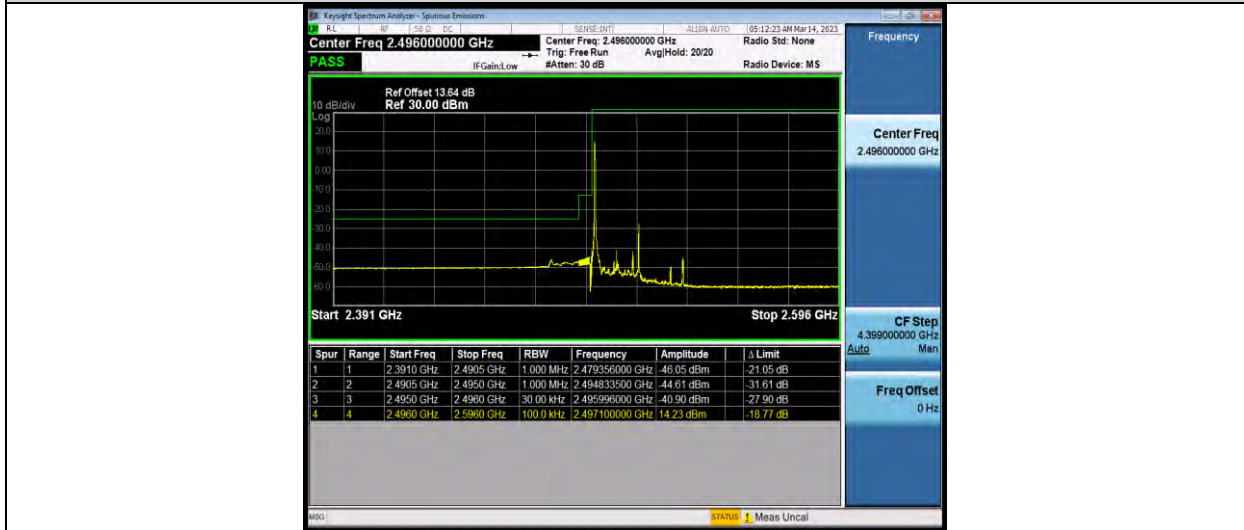


BUREAU VERITAS

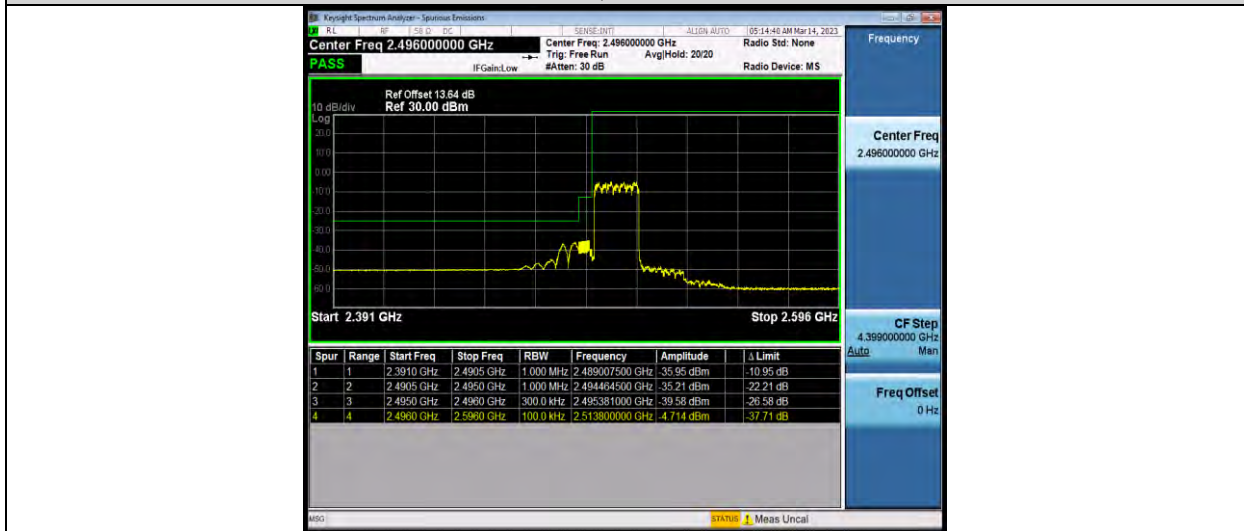
Test Report No.: W7L-P23030004RF06



Band41-20MHz-QPSK-39750-1RB#0



Band41-20MHz-QPSK-39750-100RB#0

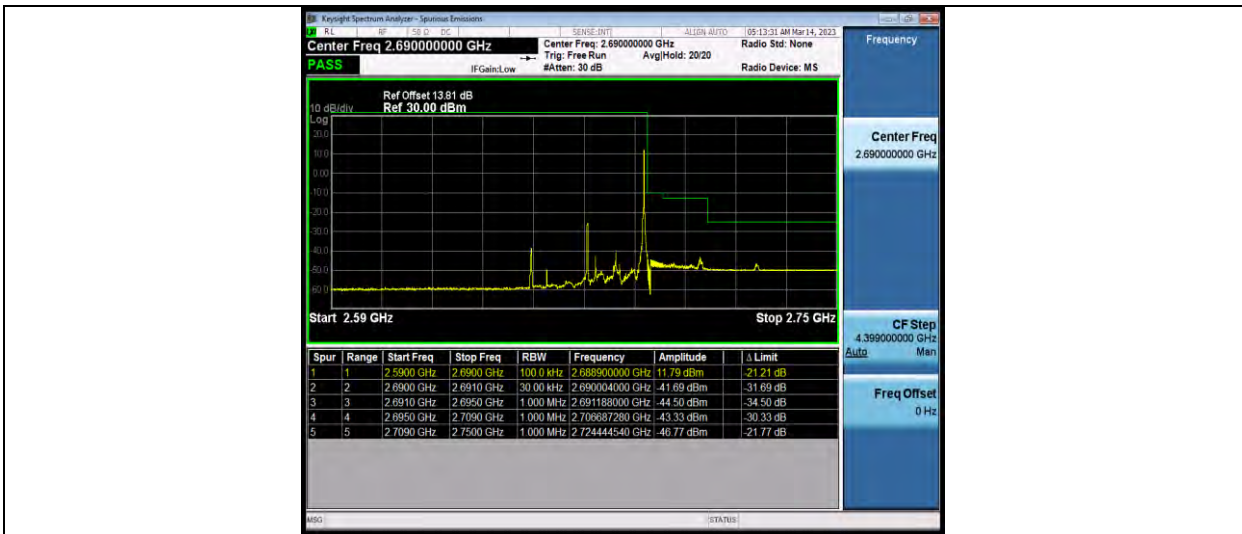


Band41-20MHz-QPSK-41490-1RB#99



BUREAU VERITAS

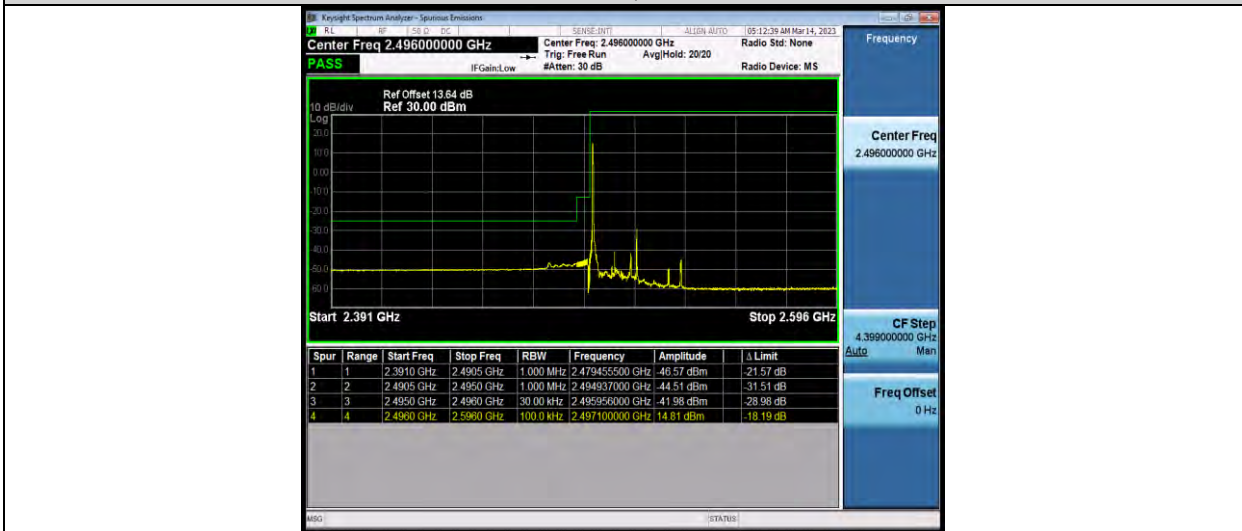
Test Report No.: W7L-P23030004RF06



Band41-20MHz-QPSK-41490-100RB#0



Band41-20MHz-16QAM-39750-1RB#0

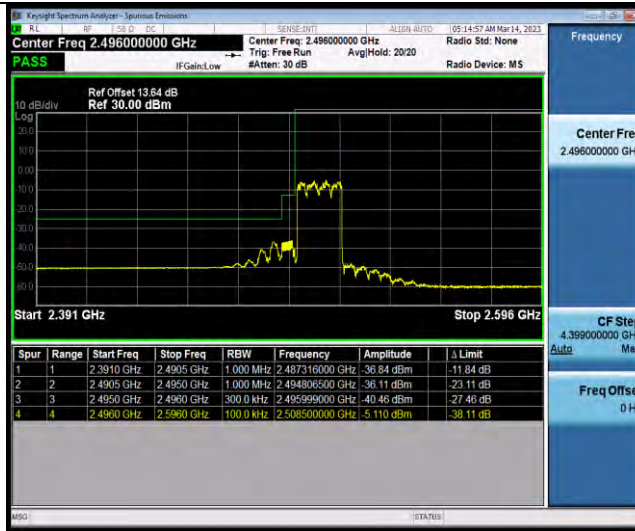


Band41-20MHz-16QAM-39750-100RB#0

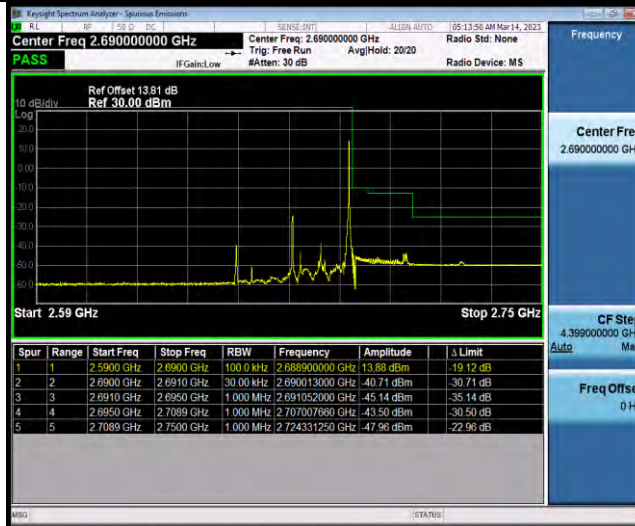


BUREAU VERITAS

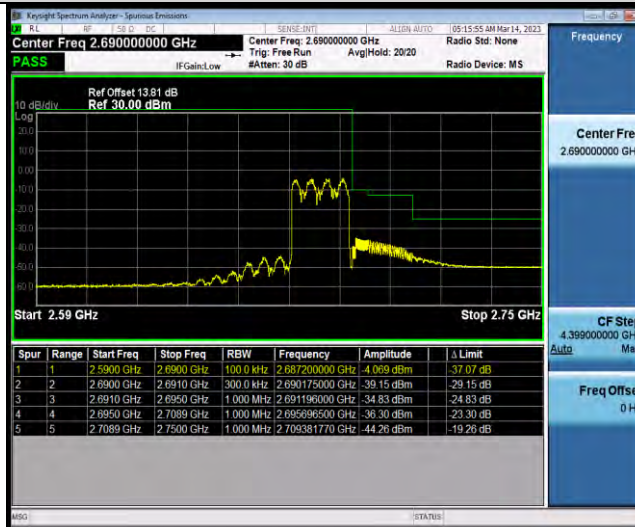
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Band41-20MHz-16QAM-41490-1RB#99



Band41-20MHz-16QAM-41490-100RB#0

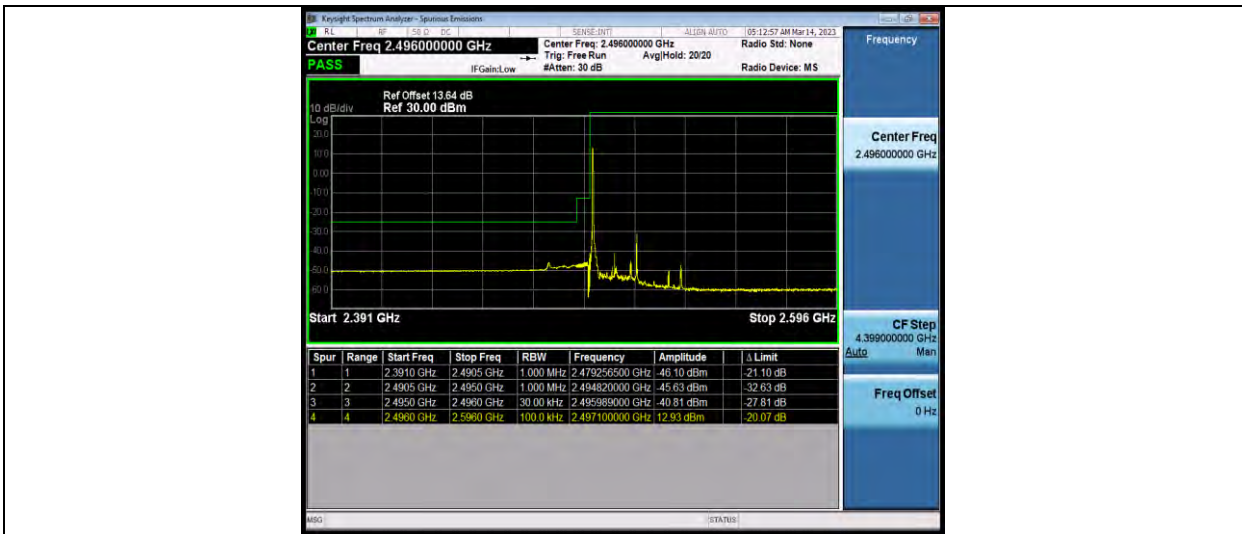


Band41-20MHz-64QAM-39750-1RB#0

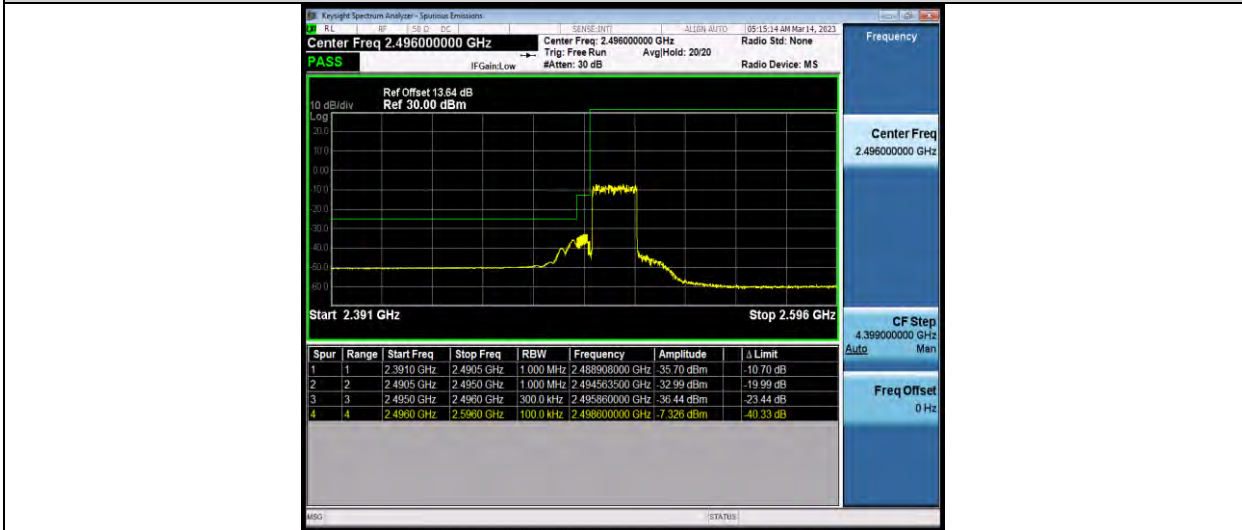


BUREAU VERITAS

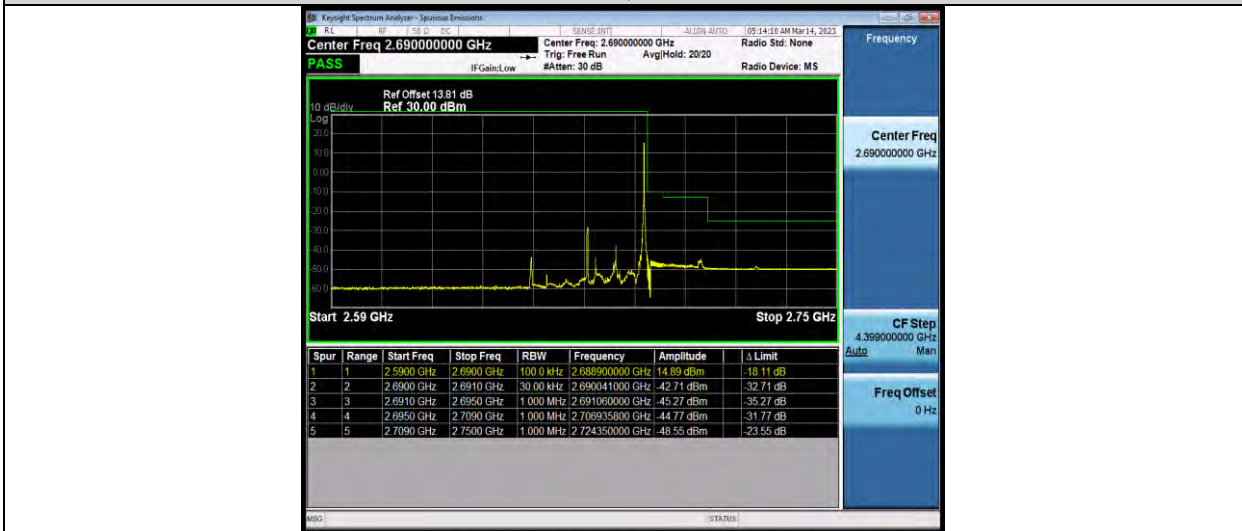
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Band41-20MHz-64QAM-39750-100RB#0



Band41-20MHz-64QAM-41490-1RB#99

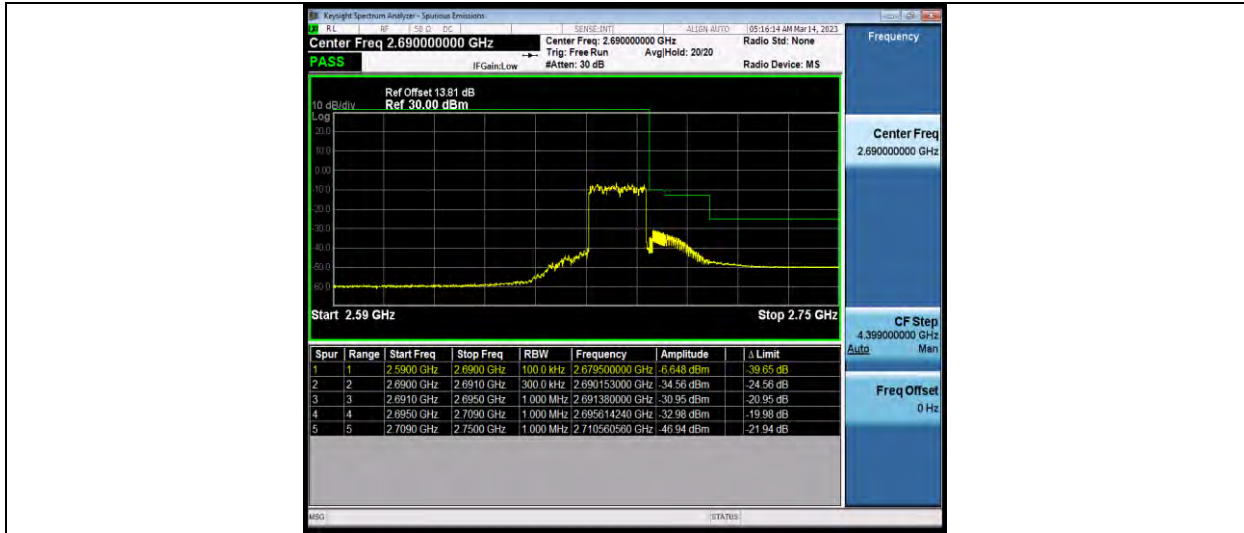


Band41-20MHz-64QAM-41490-100RB#0



BUREAU VERITAS

Test Report No.: W7L-P23030004RF06





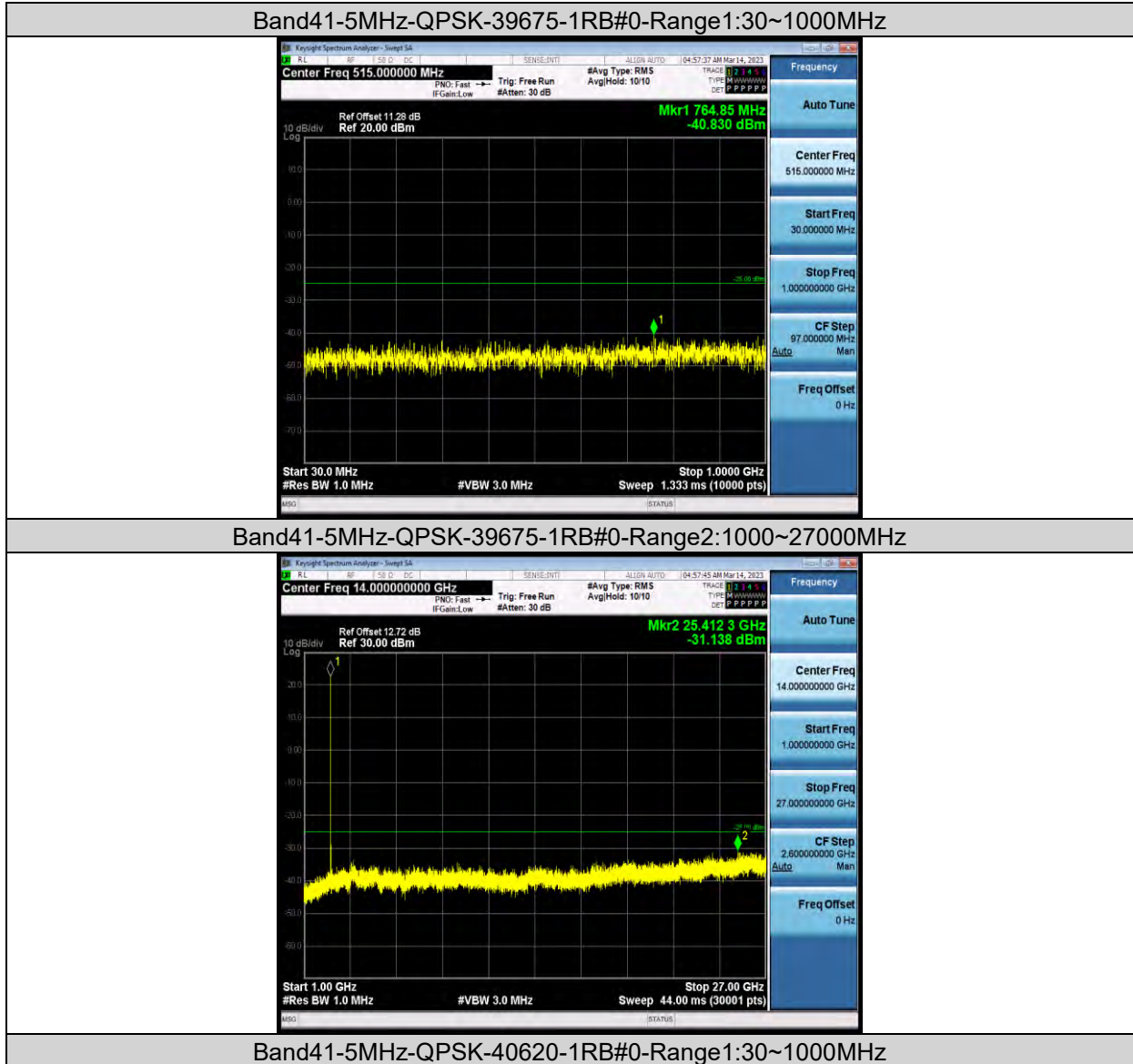
Test Report No.: W7L-P23030004RF06

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	Range1:30~1000MHz	-40.83	PASS
Band41	5MHz	QPSK	39675	1RB#0	Range2:1000~27000MHz	-31.14	PASS
Band41	5MHz	QPSK	40620	1RB#0	Range1:30~1000MHz	-40.66	PASS
Band41	5MHz	QPSK	40620	1RB#0	Range2:1000~27000MHz	-30.38	PASS
Band41	5MHz	QPSK	41565	1RB#0	Range1:30~1000MHz	-40.02	PASS
Band41	5MHz	QPSK	41565	1RB#0	Range2:1000~27000MHz	-30.42	PASS
Band41	10MHz	QPSK	39700	1RB#0	Range1:30~1000MHz	-40.66	PASS
Band41	10MHz	QPSK	39700	1RB#0	Range2:1000~27000MHz	-29.82	PASS
Band41	10MHz	QPSK	40620	1RB#0	Range1:30~1000MHz	-40.47	PASS
Band41	10MHz	QPSK	40620	1RB#0	Range2:1000~27000MHz	-30.33	PASS
Band41	10MHz	QPSK	41540	1RB#0	Range1:30~1000MHz	-39.67	PASS
Band41	10MHz	QPSK	41540	1RB#0	Range2:1000~27000MHz	-31.06	PASS
Band41	15MHz	QPSK	39725	1RB#0	Range1:30~1000MHz	-41.09	PASS
Band41	15MHz	QPSK	39725	1RB#0	Range2:1000~27000MHz	-29.98	PASS
Band41	15MHz	QPSK	40620	1RB#0	Range1:30~1000MHz	-40.9	PASS
Band41	15MHz	QPSK	40620	1RB#0	Range2:1000~27000MHz	-30.58	PASS
Band41	15MHz	QPSK	41515	1RB#0	Range1:30~1000MHz	-40.88	PASS
Band41	15MHz	QPSK	41515	1RB#0	Range2:1000~27000MHz	-30.37	PASS
Band41	20MHz	QPSK	39750	1RB#0	Range1:30~1000MHz	-41.13	PASS
Band41	20MHz	QPSK	39750	1RB#0	Range2:1000~27000MHz	-29.96	PASS
Band41	20MHz	QPSK	40620	1RB#0	Range1:30~1000MHz	-40.7	PASS
Band41	20MHz	QPSK	40620	1RB#0	Range2:1000~27000MHz	-31.12	PASS
Band41	20MHz	QPSK	41490	1RB#0	Range1:30~1000MHz	-40.56	PASS
Band41	20MHz	QPSK	41490	1RB#0	Range2:1000~27000MHz	-30.43	PASS

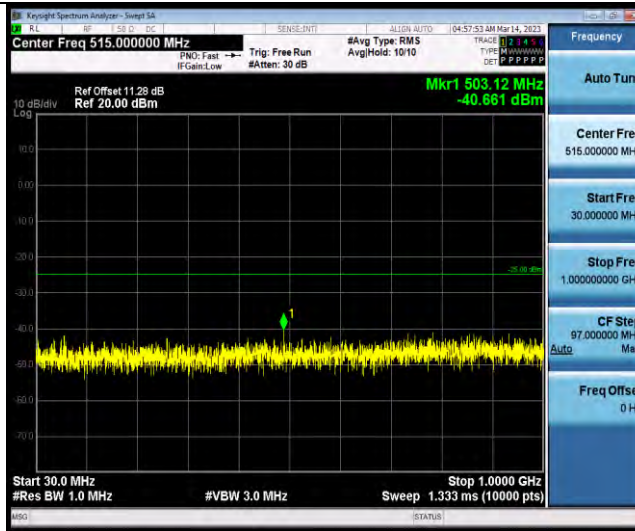
Test Graphs





BUREAU VERITAS

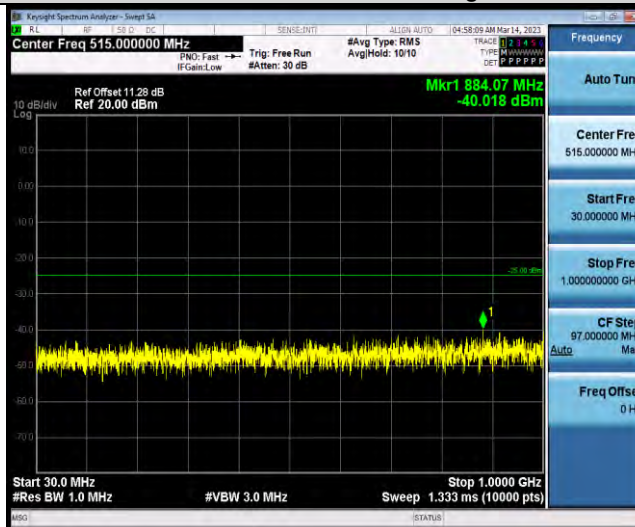
Test Report No.: W7L-P23030004RF06



Band41-5MHz-QPSK-40620-1RB#0-Range2:1000~27000MHz



Band41-5MHz-QPSK-41565-1RB#0-Range1:30~1000MHz

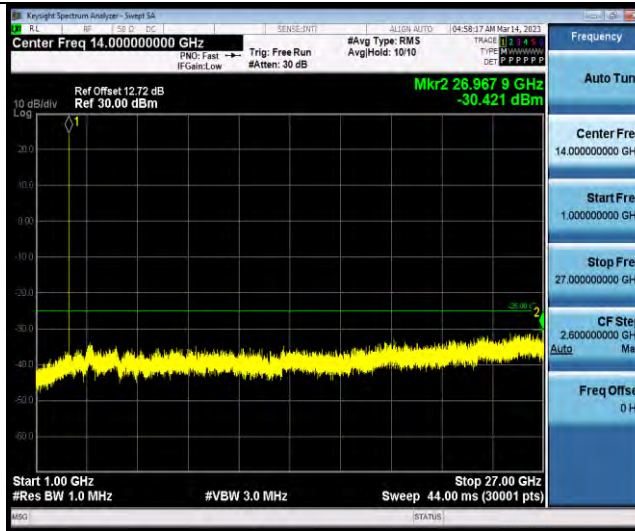


Band41-5MHz-QPSK-41565-1RB#0-Range2:1000~27000MHz

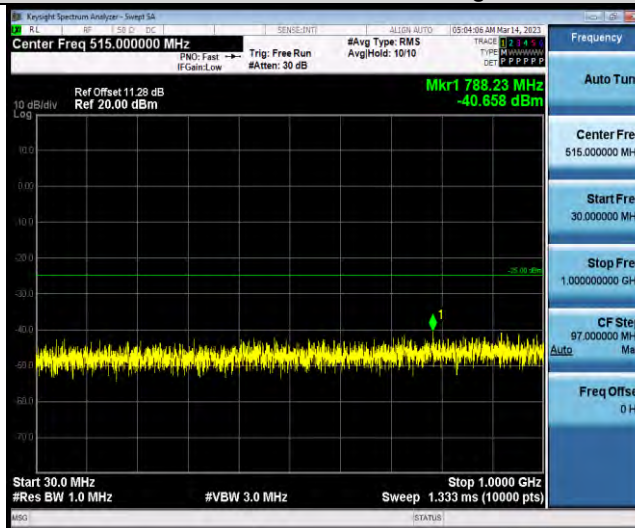


BUREAU VERITAS

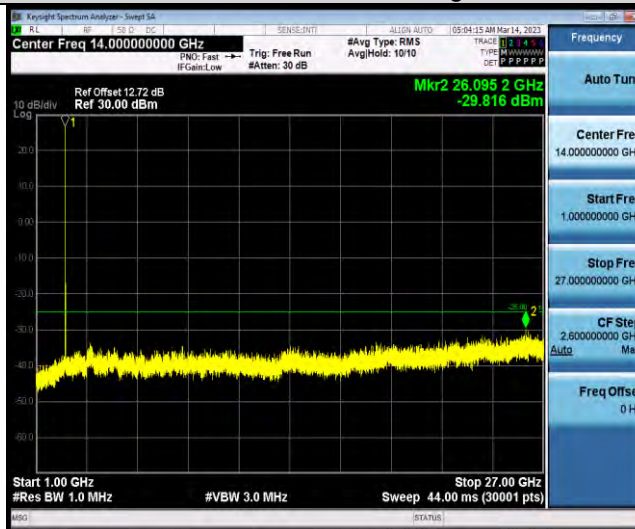
Test Report No.: W7L-P23030004RF06



Band41-10MHz-QPSK-39700-1RB#0-Range1:30~1000MHz



Band41-10MHz-QPSK-39700-1RB#0-Range2:1000~27000MHz

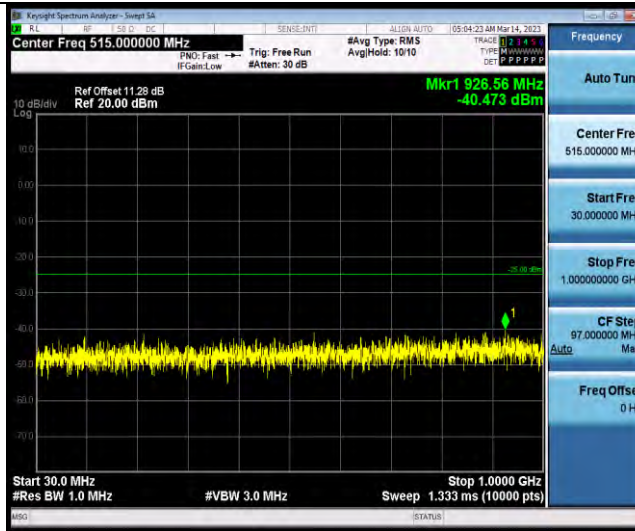


Band41-10MHz-QPSK-40620-1RB#0-Range1:30~1000MHz

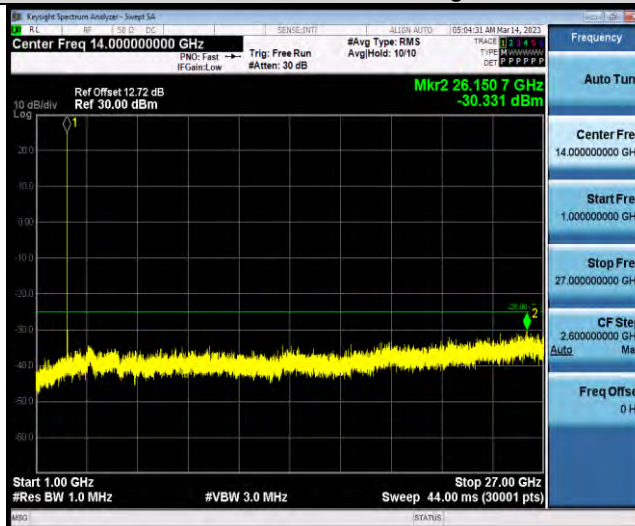


BUREAU VERITAS

Test Report No.: W7L-P23030004RF06



Band41-10MHz-QPSK-40620-1RB#0-Range2:1000~27000MHz



Band41-10MHz-QPSK-41540-1RB#0-Range1:30~1000MHz

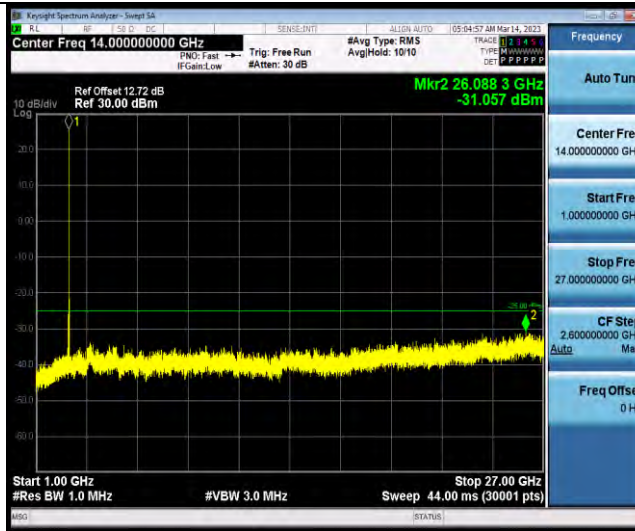


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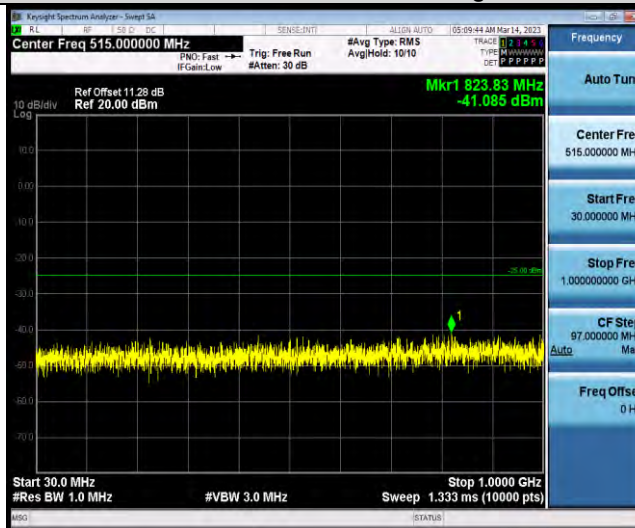


BUREAU VERITAS

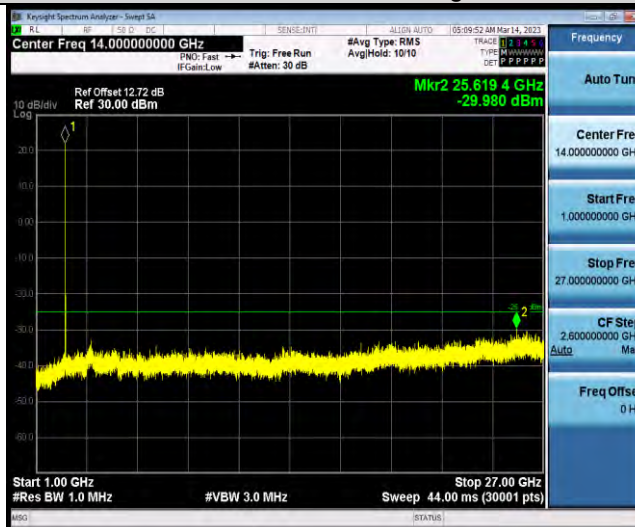
Test Report No.: W7L-P23030004RF06



Band41-15MHz-QPSK-39725-1RB#0-Range1:30~1000MHz



Band41-15MHz-QPSK-39725-1RB#0-Range2:1000~27000MHz

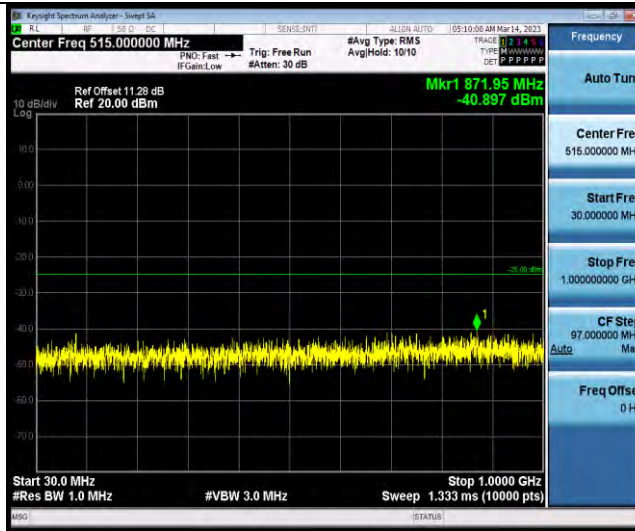


Band41-15MHz-QPSK-40620-1RB#0-Range1:30~1000MHz

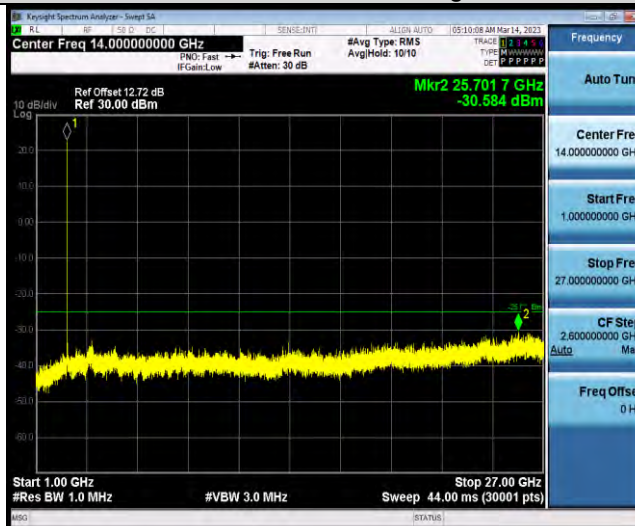


BUREAU VERITAS

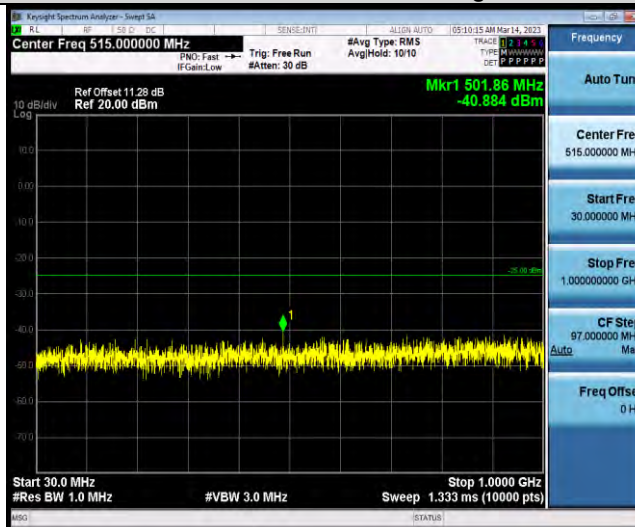
Test Report No.: W7L-P23030004RF06



Band41-15MHz-QPSK-40620-1RB#0-Range2:1000~27000MHz



Band41-15MHz-QPSK-41515-1RB#0-Range1:30~1000MHz

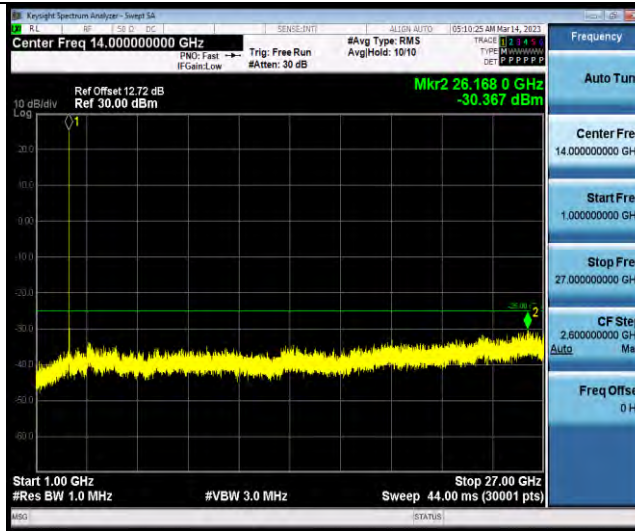


Band41-15MHz-QPSK-41515-1RB#0-Range2:1000~27000MHz

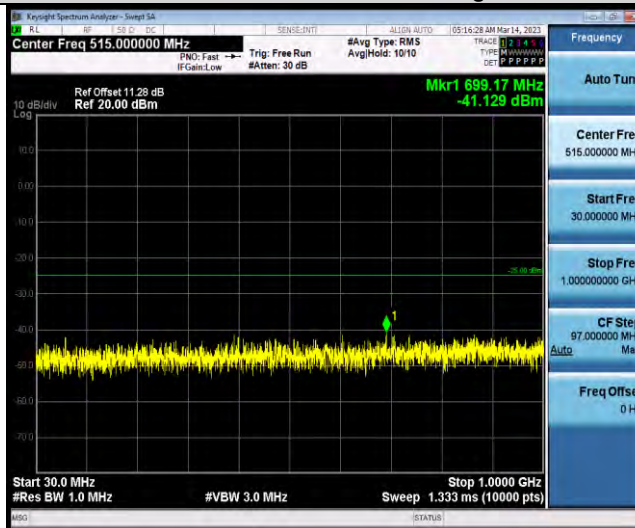


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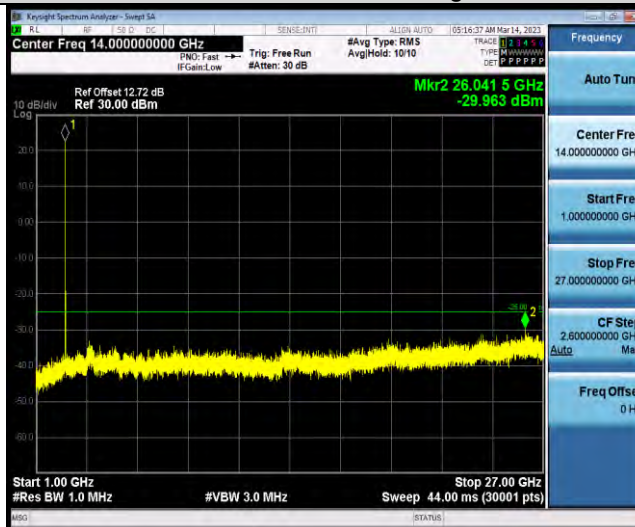
Test Report No.: W7L-P23030004RF06



Band41-20MHz-QPSK-39750-1RB#0-Range1:30~1000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~27000MHz

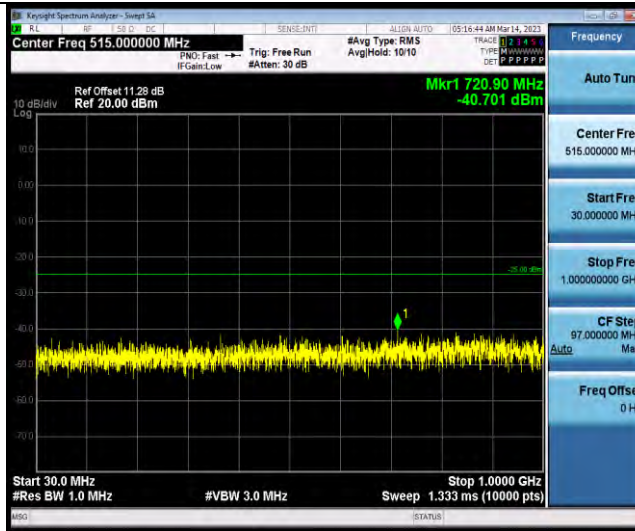


Band41-20MHz-QPSK-40620-1RB#0-Range1:30~1000MHz

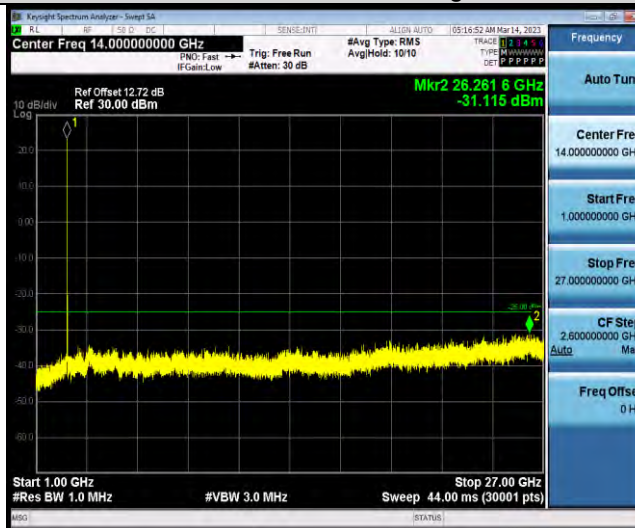


BUREAU VERITAS

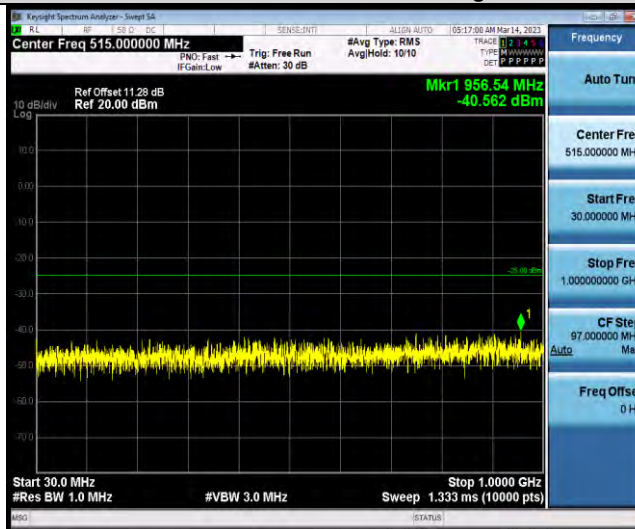
Test Report No.: W7L-P23030004RF06



Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~27000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range1:30~1000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~27000MHz



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FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4_1	20MHz	QPSK	39750	100RB#0	LV	NT	-15.09	-0.006022	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	NT	-10.10	-0.004030	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	HV	NT	-4.65	-0.001856	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	LV	NT	9.27	0.003575	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	NV	NT	4.62	0.001782	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	HV	NT	-3.19	-0.001230	±2.5	PASS
Band4_1	20MHz	QPSK	41490	100RB#0	LV	NT	-8.23	-0.003071	±2.5	PASS
Band4_1	20MHz	QPSK	41490	100RB#0	NV	NT	-12.26	-0.004575	±2.5	PASS
Band4_1	20MHz	QPSK	41490	100RB#0	HV	NT	-14.09	-0.005257	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4_1	20MHz	QPSK	39750	100RB#0	NV	-30	-7.74	-0.003089	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	-20	-9.31	-0.003715	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	-10	-8.20	-0.003272	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	0	-7.74	-0.003089	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	10	-14.89	-0.005942	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	20	-10.43	-0.004162	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	30	-9.03	-0.003603	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	40	-10.10	-0.004030	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	50	-3.32	-0.001325	±2.5	PASS
Band4	20MHz	QPSK	40620	100RB#0	NV	-30	6.68	0.002576	±2.5	PASS



**BUREAU
VERITAS**

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1										
Band4 1	20MHz	QPSK	40620	100RB#0	NV	-20	-7.34	-0.002831	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	-10	-4.71	-0.001816	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	0	-7.31	-0.002819	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	10	-7.61	-0.002935	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	20	-9.21	-0.003552	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	30	-8.83	-0.003405	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	40	-6.27	-0.002418	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB#0	NV	50	-7.88	-0.003039	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	-30	-13.63	-0.005086	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	-20	-14.91	-0.005563	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	-10	-12.16	-0.004537	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	0	-6.85	-0.002556	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	10	-10.41	-0.003884	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	20	-11.67	-0.004354	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	30	-15.84	-0.005910	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	40	-15.76	-0.005881	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB#0	NV	50	-10.91	-0.004071	±2.5	PASS

Note: LV = Low voltage(3.5V); NV = Normal voltage(3.8V); HV = High voltage(4.2V);NT = Normal temperature (25°C).

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
fL- MAX(Δf)	2500.7523	≥2498.5	PASS
fH- MAX(Δf)	2688.9695	≤2690	

Note : 1. |MAX(Δf)| = Max Deviation

2. fL = Occ low channel fL(-13dBm/MHz)

3. fH = Occ High channel fH(-13dBm/MHz)

4. |MAX(Δf)| = -15.84Hz.



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