

FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	189	VL	NT	29.03	0.034706	±2.5	PASS
GSM850	189	VN	NT	24.47	0.029260	±2.5	PASS
GSM850	189	VH	NT	27.18	0.032497	±2.5	PASS
GSM850	128	VL	NT	30.17	0.036602	±2.5	PASS
GSM850	128	VN	NT	24.14	0.029288	±2.5	PASS
GSM850	128	VH	NT	31.80	0.038582	±2.5	PASS
GSM850	251	VL	NT	32.64	0.038452	±2.5	PASS
GSM850	251	VN	NT	31.90	0.037587	±2.5	PASS
GSM850	251	VH	NT	31.60	0.037229	±2.5	PASS
EGSM850	189	VL	NT	22.18	0.026519	±2.5	PASS
EGSM850	189	VN	NT	28.03	0.033517	±2.5	PASS
EGSM850	189	VH	NT	26.08	0.031181	±2.5	PASS
EGSM850	128	VL	NT	25.93	0.031457	±2.5	PASS
EGSM850	128	VN	NT	25.73	0.031221	±2.5	PASS
EGSM850	128	VH	NT	24.51	0.029739	±2.5	PASS
EGSM850	251	VL	NT	27.49	0.032384	±2.5	PASS
EGSM850	251	VN	NT	21.44	0.025263	±2.5	PASS
EGSM850	251	VH	NT	25.69	0.030267	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	189	NV	-30	28.09	0.033580	±2.5	PASS
GSM850	189	NV	-20	30.15	0.036050	±2.5	PASS
GSM850	189	NV	-10	28.59	0.034178	±2.5	PASS
GSM850	189	NV	0	29.59	0.035375	±2.5	PASS
GSM850	189	NV	10	24.95	0.029827	±2.5	PASS
GSM850	189	NV	20	31.94	0.038189	±2.5	PASS
GSM850	189	NV	30	24.57	0.029372	±2.5	PASS
GSM850	189	NV	40	30.76	0.036774	±2.5	PASS
GSM850	189	NV	50	29.90	0.035747	±2.5	PASS
GSM850	128	NV	-30	30.97	0.037576	±2.5	PASS
GSM850	128	NV	-20	32.75	0.039739	±2.5	PASS
GSM850	128	NV	-10	29.17	0.035393	±2.5	PASS
GSM850	128	NV	0	26.91	0.032651	±2.5	PASS
GSM850	128	NV	10	24.30	0.029481	±2.5	PASS
GSM850	128	NV	20	27.76	0.033680	±2.5	PASS
GSM850	128	NV	30	29.89	0.036270	±2.5	PASS
GSM850	128	NV	40	27.02	0.032779	±2.5	PASS
GSM850	128	NV	50	28.77	0.034906	±2.5	PASS



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GSM850	251	NV	-30	25.44	0.029974	±2.5	PASS
GSM850	251	NV	-20	33.49	0.039454	±2.5	PASS
GSM850	251	NV	-10	31.12	0.036661	±2.5	PASS
GSM850	251	NV	0	30.26	0.035648	±2.5	PASS
GSM850	251	NV	10	25.53	0.030074	±2.5	PASS
GSM850	251	NV	20	28.15	0.033168	±2.5	PASS
GSM850	251	NV	30	25.65	0.030215	±2.5	PASS
GSM850	251	NV	40	33.05	0.038938	±2.5	PASS
GSM850	251	NV	50	25.62	0.030187	±2.5	PASS
EGSM850	189	NV	-30	21.15	0.025285	±2.5	PASS
EGSM850	189	NV	-20	19.90	0.023789	±2.5	PASS
EGSM850	189	NV	-10	30.41	0.036353	±2.5	PASS
EGSM850	189	NV	0	22.48	0.026877	±2.5	PASS
EGSM850	189	NV	10	22.13	0.026460	±2.5	PASS
EGSM850	189	NV	20	26.41	0.031572	±2.5	PASS
EGSM850	189	NV	30	21.30	0.025460	±2.5	PASS
EGSM850	189	NV	40	26.46	0.031641	±2.5	PASS
EGSM850	189	NV	50	21.49	0.025692	±2.5	PASS
EGSM850	128	NV	-30	21.07	0.025565	±2.5	PASS
EGSM850	128	NV	-20	30.31	0.036776	±2.5	PASS
EGSM850	128	NV	-10	22.01	0.026711	±2.5	PASS
EGSM850	128	NV	0	25.19	0.030567	±2.5	PASS
EGSM850	128	NV	10	25.96	0.031493	±2.5	PASS
EGSM850	128	NV	20	24.20	0.029358	±2.5	PASS
EGSM850	128	NV	30	26.54	0.032200	±2.5	PASS
EGSM850	128	NV	40	29.35	0.035615	±2.5	PASS
EGSM850	128	NV	50	21.92	0.026592	±2.5	PASS
EGSM850	251	NV	-30	22.59	0.026619	±2.5	PASS
EGSM850	251	NV	-20	28.47	0.033541	±2.5	PASS
EGSM850	251	NV	-10	28.88	0.034019	±2.5	PASS
EGSM850	251	NV	0	30.58	0.036022	±2.5	PASS
EGSM850	251	NV	10	23.65	0.027868	±2.5	PASS
EGSM850	251	NV	20	23.66	0.027873	±2.5	PASS
EGSM850	251	NV	30	22.44	0.026433	±2.5	PASS
EGSM850	251	NV	40	22.83	0.026897	±2.5	PASS
EGSM850	251	NV	50	25.96	0.030586	±2.5	PASS



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WCMDA BAND5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.26	13	PASS
Band5	4182	2.88	13	PASS
Band5	4233	2.91	13	PASS

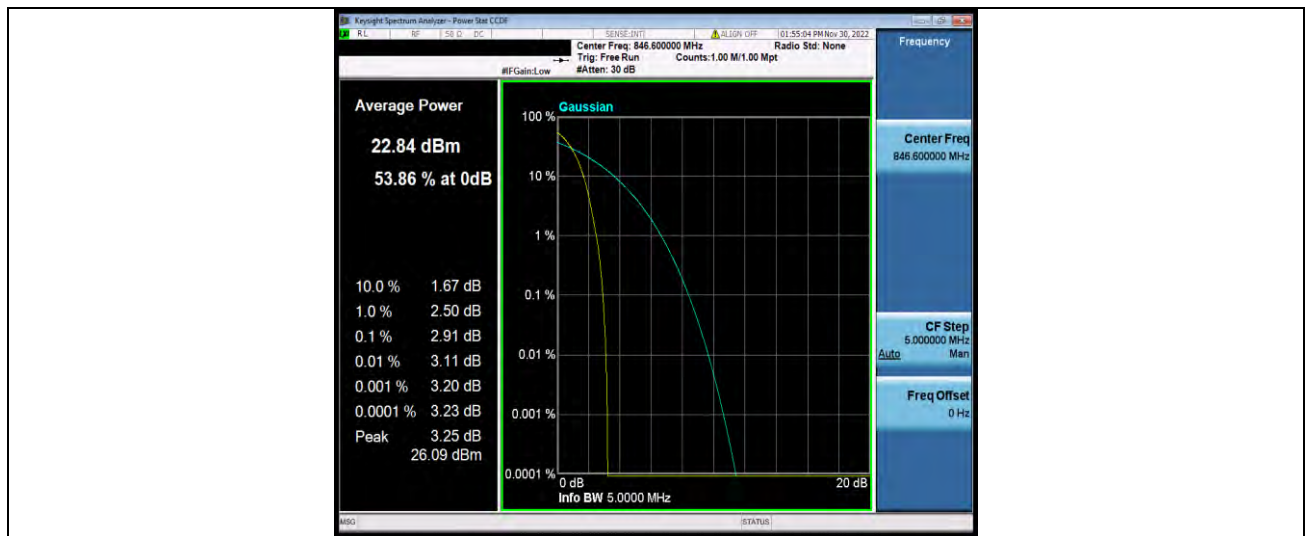
Test Graphs





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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1524	4.727	---	PASS
Band5	4182	4.1521	4.744	---	PASS
Band5	4233	4.1480	4.729	---	PASS

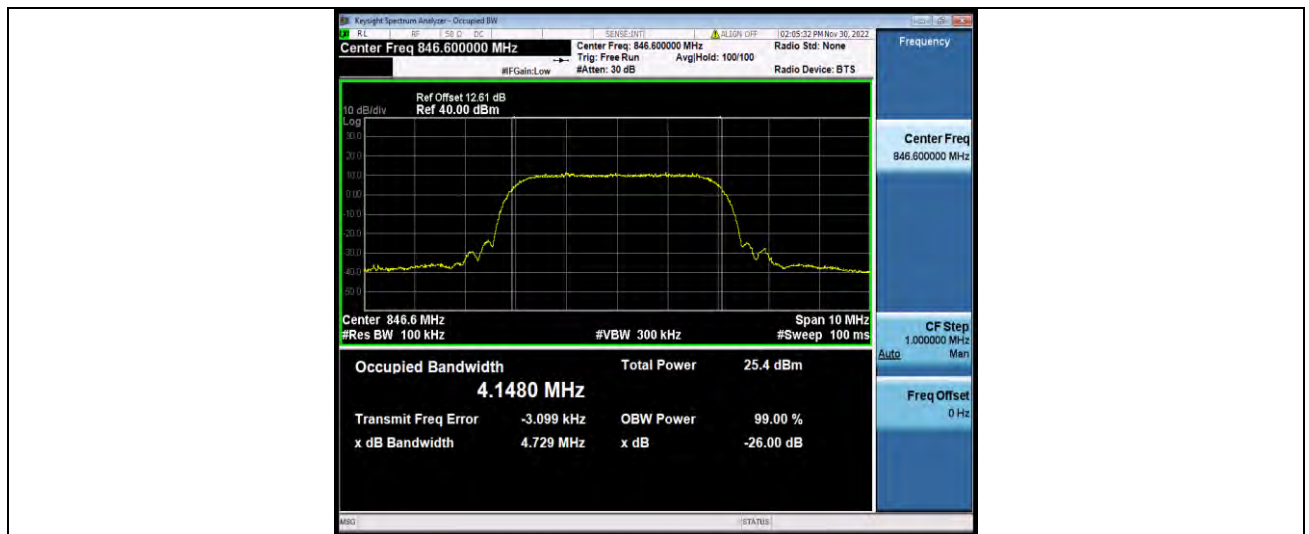
Test Graphs





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BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.85	-27.60	-13	PASS
Band5	4233	849.00	-26.89	-13	PASS

Test Graphs

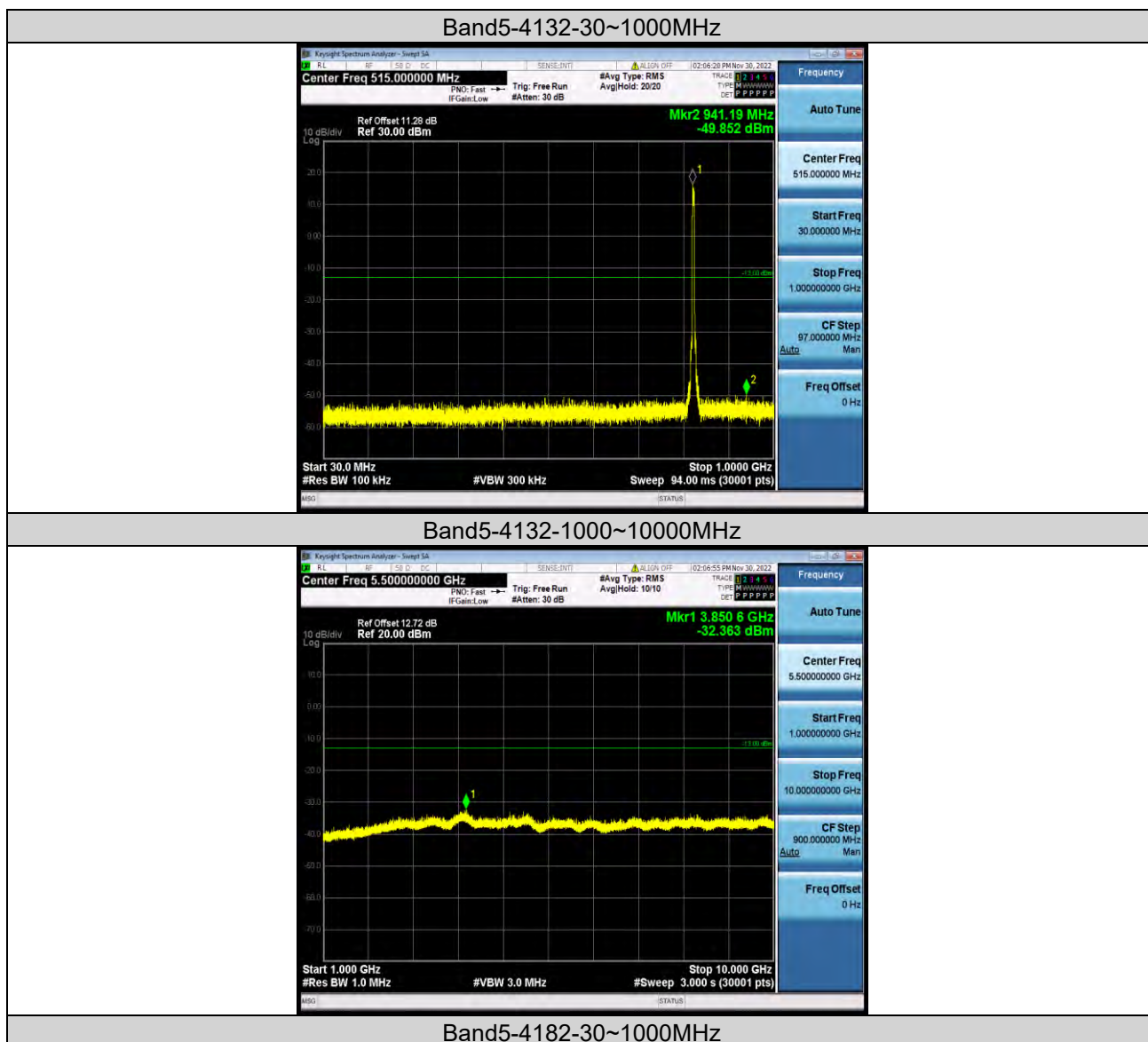


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	941.19	-49.85	-13	PASS
Band5	4132	1000~10000MHz	3850.6	-32.36	-13	PASS
Band5	4182	30~1000MHz	951.66	-50.21	-13	PASS
Band5	4182	1000~10000MHz	3788.5	-32.43	-13	PASS
Band5	4233	30~1000MHz	588.07	-50.42	-13	PASS
Band5	4233	1000~10000MHz	3804.4	-32.59	-13	PASS

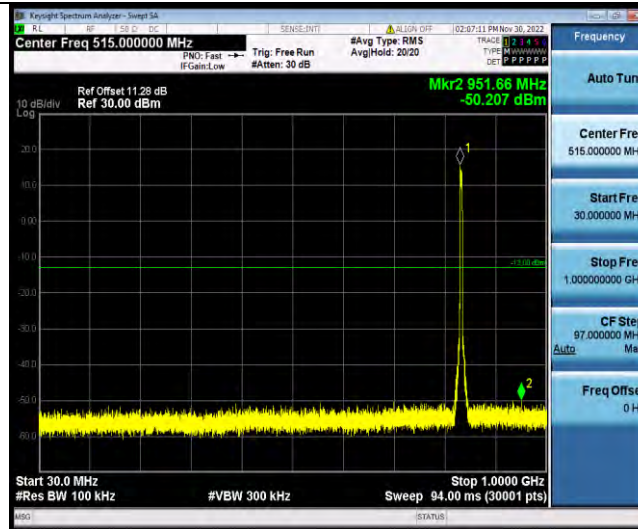
Test Graphs



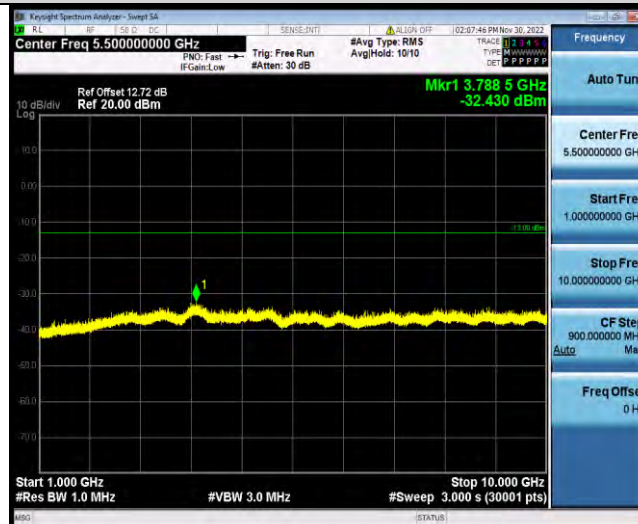


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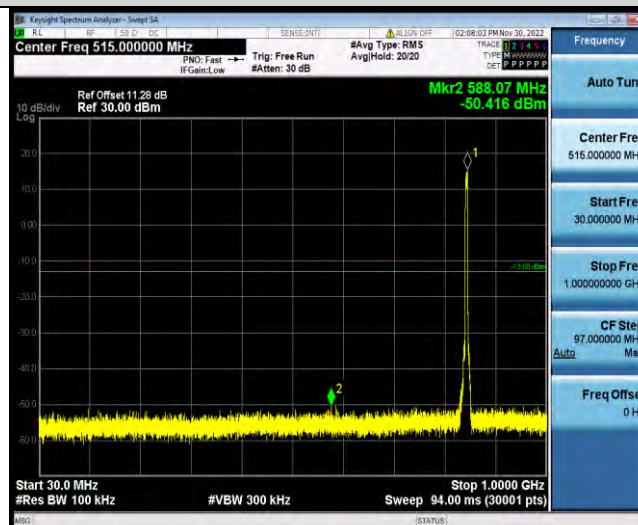
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Band5-4182-1000~10000MHz



Band5-4233-30~1000MHz

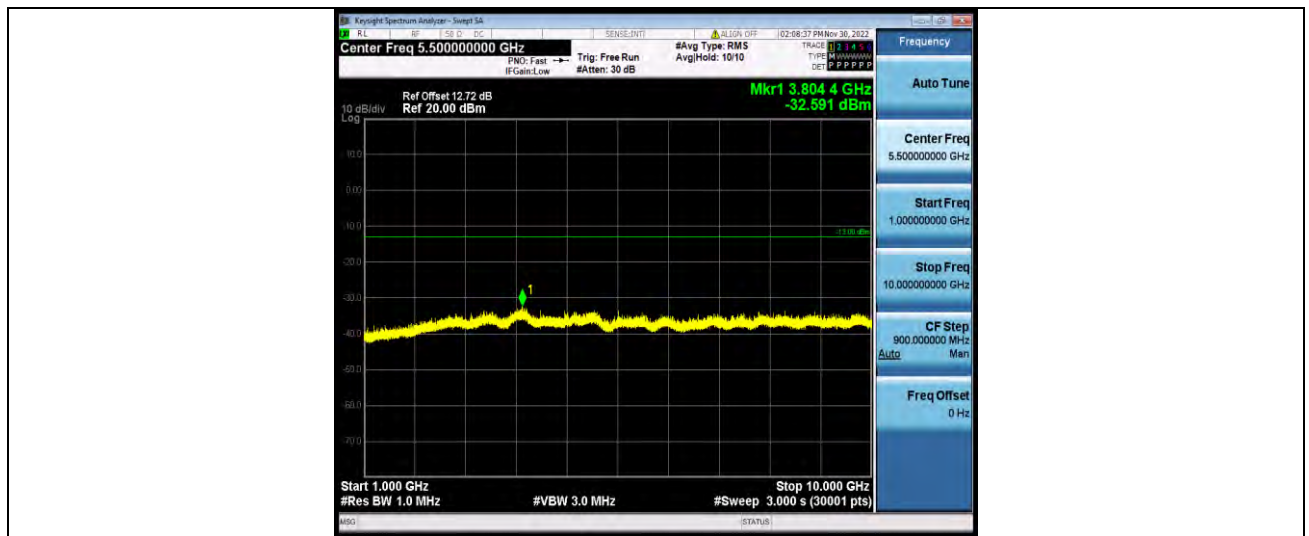


Band5-4233-1000~10000MHz



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FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-0.27	-0.000327	±2.5	PASS
Band5	4132	VN	NT	-0.25	-0.000303	±2.5	PASS
Band5	4132	VH	NT	-0.09	-0.000109	±2.5	PASS
Band5	4182	VL	NT	-0.01	-0.000012	±2.5	PASS
Band5	4182	VN	NT	0.01	0.000012	±2.5	PASS
Band5	4182	VH	NT	0.16	0.000191	±2.5	PASS
Band5	4233	VL	NT	0.07	0.000083	±2.5	PASS
Band5	4233	VN	NT	0.06	0.000071	±2.5	PASS
Band5	4233	VH	NT	0.14	0.000165	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-0.05	-0.000061	±2.5	PASS
Band5	4132	NV	-20	-0.03	-0.000036	±2.5	PASS
Band5	4132	NV	-10	-0.01	-0.000011	±2.5	PASS
Band5	4132	NV	0	0.05	0.000061	±2.5	PASS
Band5	4132	NV	-10	-0.02	-0.000024	±2.5	PASS
Band5	4132	NV	20	-0.04	-0.000048	±2.5	PASS
Band5	4132	NV	30	0.09	0.000109	±2.5	PASS
Band5	4132	NV	40	0.04	0.000048	±2.5	PASS
Band5	4132	NV	50	0.04	0.000048	±2.5	PASS
Band5	4182	NV	-30	0.09	0.000108	±2.5	PASS
Band5	4182	NV	-20	-0.02	-0.000024	±2.5	PASS
Band5	4182	NV	0	0.00	0.000000	±2.5	PASS
Band5	4182	NV	0	0.00	0.000000	±2.5	PASS
Band5	4182	NV	10	-0.01	-0.000012	±2.5	PASS
Band5	4182	NV	20	0.00	0.000000	±2.5	PASS
Band5	4182	NV	30	0.05	0.000060	±2.5	PASS
Band5	4182	NV	40	0.06	0.000072	±2.5	PASS
Band5	4182	NV	50	-0.02	-0.000024	±2.5	PASS
Band5	4233	NV	-30	-0.01	-0.000012	±2.5	PASS
Band5	4233	NV	-20	0.04	0.000047	±2.5	PASS
Band5	4233	NV	-10	0.06	0.000071	±2.5	PASS
Band5	4233	NV	0	-0.06	-0.000071	±2.5	PASS
Band5	4233	NV	10	0.06	0.000071	±2.5	PASS
Band5	4233	NV	20	0.01	0.000012	±2.5	PASS
Band5	4233	NV	30	-0.10	-0.000118	±2.5	PASS
Band5	4233	NV	40	0.01	0.000012	±2.5	PASS



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Band5	4233	NV	50	-0.04	-0.000047	±2.5	PASS
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LTE BAND26 (INCLUDING LTE BAND5)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

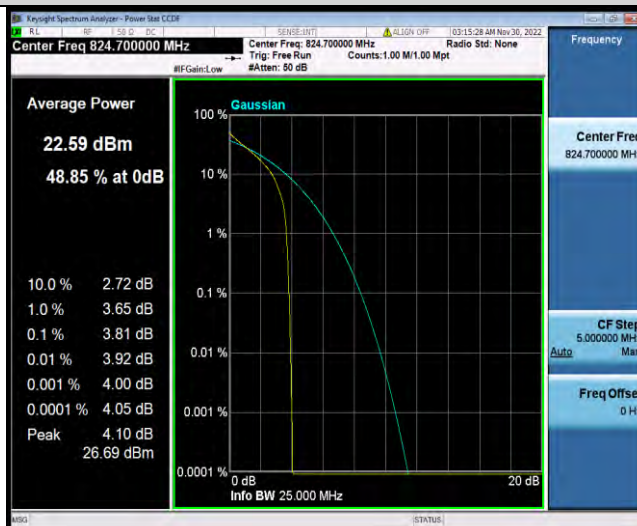
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	1.4MHz	QPSK	26797	1RB#0	3.81	13	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	5.19	13	PASS
Band26	1.4MHz	QPSK	26915	1RB#0	3.86	13	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	5.19	13	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	3.76	13	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	5.09	13	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	5.51	13	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	6.07	13	PASS
Band26	1.4MHz	16QAM	26915	1RB#0	5.54	13	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	6.00	13	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	5.41	13	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	5.99	13	PASS
Band26	1.4MHz	64QAM	26797	1RB#0	6.25	13	PASS
Band26	1.4MHz	64QAM	26797	6RB#0	6.48	13	PASS
Band26	1.4MHz	64QAM	26915	1RB#0	6.75	13	PASS
Band26	1.4MHz	64QAM	26915	6RB#0	6.72	13	PASS
Band26	1.4MHz	64QAM	27033	1RB#0	6.53	13	PASS
Band26	1.4MHz	64QAM	27033	6RB#0	6.42	13	PASS
Band26	3MHz	QPSK	26805	1RB#0	3.65	13	PASS
Band26	3MHz	QPSK	26805	15RB#0	5.12	13	PASS
Band26	3MHz	QPSK	26915	1RB#0	3.63	13	PASS
Band26	3MHz	QPSK	26915	15RB#0	5.13	13	PASS
Band26	3MHz	QPSK	27025	1RB#0	3.68	13	PASS
Band26	3MHz	QPSK	27025	15RB#0	5.08	13	PASS
Band26	3MHz	16QAM	26805	1RB#0	5.31	13	PASS
Band26	3MHz	16QAM	26805	15RB#0	5.96	13	PASS
Band26	3MHz	16QAM	26915	1RB#0	5.33	13	PASS
Band26	3MHz	16QAM	26915	15RB#0	5.98	13	PASS
Band26	3MHz	16QAM	27025	1RB#0	5.29	13	PASS
Band26	3MHz	16QAM	27025	15RB#0	5.88	13	PASS
Band26	3MHz	64QAM	26805	1RB#0	6.42	13	PASS
Band26	3MHz	64QAM	26805	15RB#0	6.79	13	PASS
Band26	3MHz	64QAM	26915	1RB#0	6.54	13	PASS
Band26	3MHz	64QAM	26915	15RB#0	6.64	13	PASS
Band26	3MHz	64QAM	27025	1RB#0	6.16	13	PASS
Band26	3MHz	64QAM	27025	15RB#0	6.66	13	PASS
Band26	5MHz	QPSK	26815	1RB#0	3.66	13	PASS
Band26	5MHz	QPSK	26815	25RB#0	5.15	13	PASS
Band26	5MHz	QPSK	26915	1RB#0	3.64	13	PASS
Band26	5MHz	QPSK	26915	25RB#0	5.19	13	PASS

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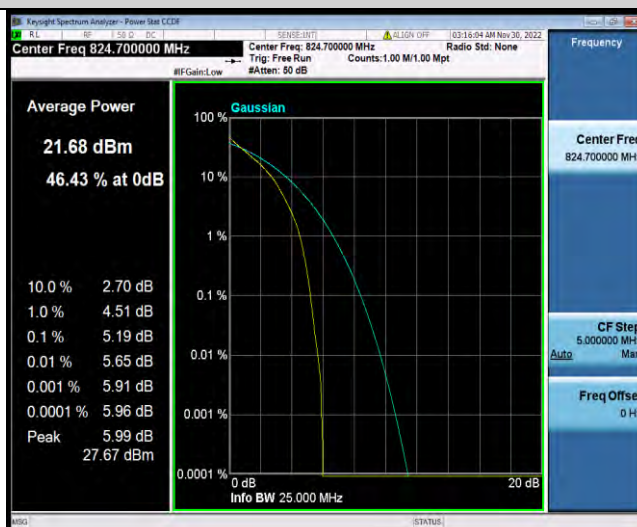
Band26	5MHz	QPSK	27015	1RB#0	3.67	13	PASS
Band26	5MHz	QPSK	27015	25RB#0	5.25	13	PASS
Band26	5MHz	16QAM	26815	1RB#0	5.18	13	PASS
Band26	5MHz	16QAM	26815	25RB#0	5.96	13	PASS
Band26	5MHz	16QAM	26915	1RB#0	5.23	13	PASS
Band26	5MHz	16QAM	26915	25RB#0	5.98	13	PASS
Band26	5MHz	16QAM	27015	1RB#0	5.40	13	PASS
Band26	5MHz	16QAM	27015	25RB#0	6.02	13	PASS
Band26	5MHz	64QAM	26815	1RB#0	6.41	13	PASS
Band26	5MHz	64QAM	26815	25RB#0	6.64	13	PASS
Band26	5MHz	64QAM	26915	1RB#0	6.37	13	PASS
Band26	5MHz	64QAM	26915	25RB#0	6.67	13	PASS
Band26	5MHz	64QAM	27015	1RB#0	6.26	13	PASS
Band26	5MHz	64QAM	27015	25RB#0	6.68	13	PASS
Band26	10MHz	QPSK	26840	1RB#0	3.58	13	PASS
Band26	10MHz	QPSK	26840	50RB#0	5.16	13	PASS
Band26	10MHz	QPSK	26915	1RB#0	3.57	13	PASS
Band26	10MHz	QPSK	26915	50RB#0	5.16	13	PASS
Band26	10MHz	QPSK	26990	1RB#0	3.67	13	PASS
Band26	10MHz	QPSK	26990	50RB#0	5.22	13	PASS
Band26	10MHz	16QAM	26840	1RB#0	5.30	13	PASS
Band26	10MHz	16QAM	26840	50RB#0	5.98	13	PASS
Band26	10MHz	16QAM	26915	1RB#0	5.20	13	PASS
Band26	10MHz	16QAM	26915	50RB#0	6.00	13	PASS
Band26	10MHz	16QAM	26990	1RB#0	5.14	13	PASS
Band26	10MHz	16QAM	26990	50RB#0	6.04	13	PASS
Band26	10MHz	64QAM	26840	1RB#0	6.45	13	PASS
Band26	10MHz	64QAM	26840	50RB#0	6.63	13	PASS
Band26	10MHz	64QAM	26915	1RB#0	6.38	13	PASS
Band26	10MHz	64QAM	26915	50RB#0	6.69	13	PASS
Band26	10MHz	64QAM	26990	1RB#0	6.09	13	PASS
Band26	10MHz	64QAM	26990	50RB#0	6.65	13	PASS
Band26	15MHz	QPSK	26865	1RB#0	3.57	13	PASS
Band26	15MHz	QPSK	26865	75RB#0	5.41	13	PASS
Band26	15MHz	QPSK	26915	1RB#0	3.57	13	PASS
Band26	15MHz	QPSK	26915	75RB#0	5.41	13	PASS
Band26	15MHz	QPSK	26965	1RB#0	3.55	13	PASS
Band26	15MHz	QPSK	26965	75RB#0	5.48	13	PASS
Band26	15MHz	16QAM	26865	1RB#0	5.19	13	PASS
Band26	15MHz	16QAM	26865	75RB#0	6.10	13	PASS
Band26	15MHz	16QAM	26915	1RB#0	5.27	13	PASS
Band26	15MHz	16QAM	26915	75RB#0	6.11	13	PASS
Band26	15MHz	16QAM	26965	1RB#0	5.28	13	PASS
Band26	15MHz	16QAM	26965	75RB#0	6.17	13	PASS
Band26	15MHz	64QAM	26865	1RB#0	6.53	13	PASS
Band26	15MHz	64QAM	26865	75RB#0	6.70	13	PASS
Band26	15MHz	64QAM	26915	1RB#0	6.57	13	PASS
Band26	15MHz	64QAM	26915	75RB#0	6.67	13	PASS
Band26	15MHz	64QAM	26965	1RB#0	6.47	13	PASS
Band26	15MHz	64QAM	26965	75RB#0	6.66	13	PASS

Test Graphs

Band26-1.4MHz-QPSK-26797-1RB#0



Band26-1.4MHz-QPSK-26797-6RB#0



Band26-1.4MHz-QPSK-26915-1RB#0



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Band26-1.4MHz-QPSK-26915-6RB#0



Band26-1.4MHz-QPSK-27033-1RB#0



Band26-1.4MHz-QPSK-27033-6RB#0

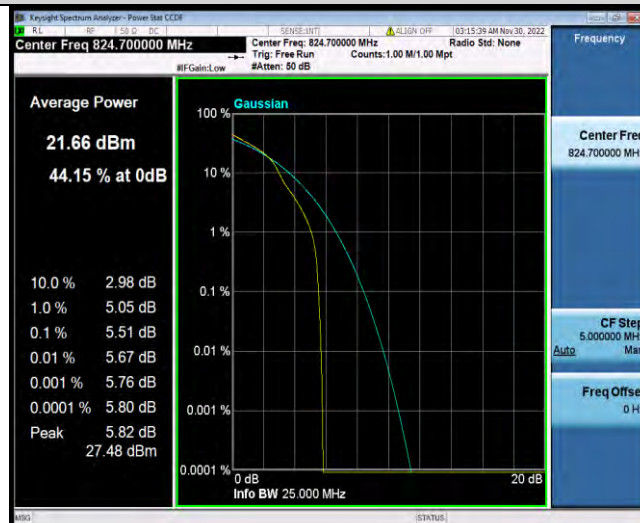


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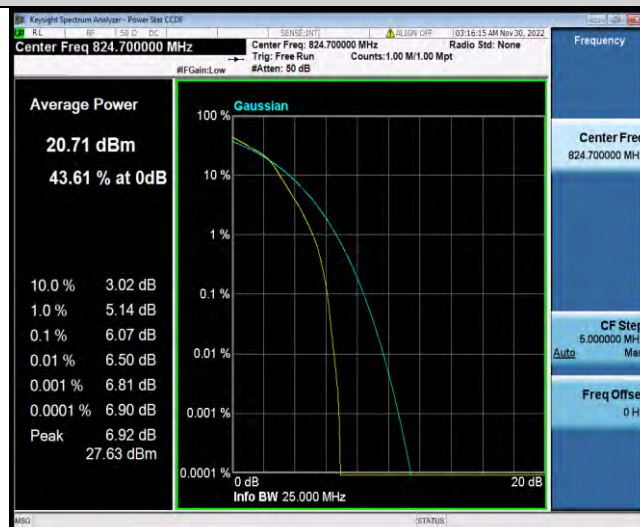
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Band26-1.4MHz-16QAM-26797-1RB#0



Band26-1.4MHz-16QAM-26797-6RB#0

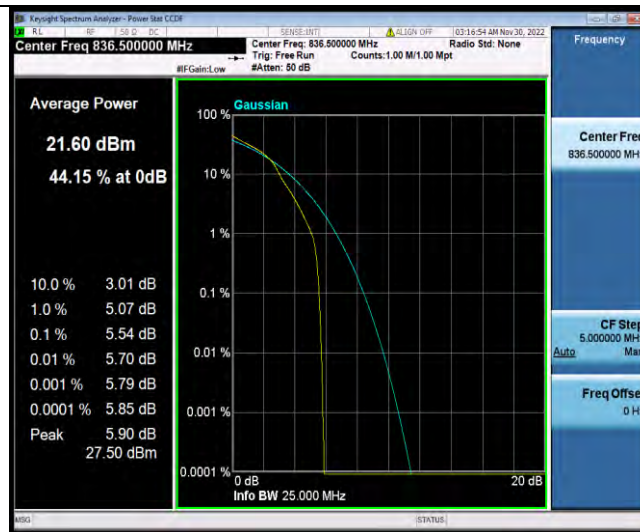


Band26-1.4MHz-16QAM-26915-1RB#0



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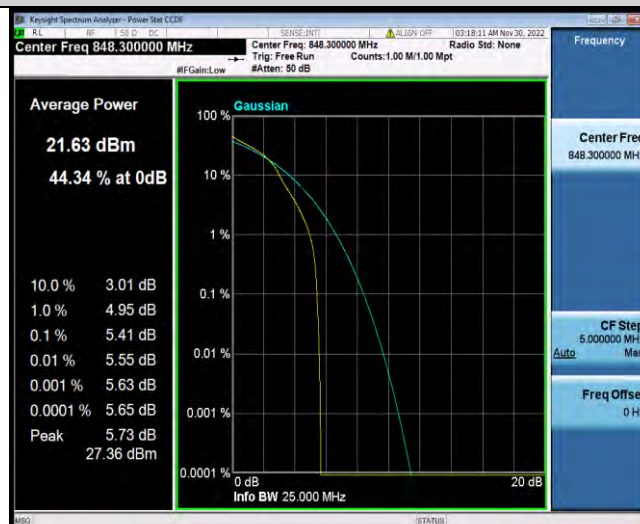
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Band26-1.4MHz-16QAM-26915-6RB#0



Band26-1.4MHz-16QAM-27033-1RB#0



Band26-1.4MHz-16QAM-27033-6RB#0



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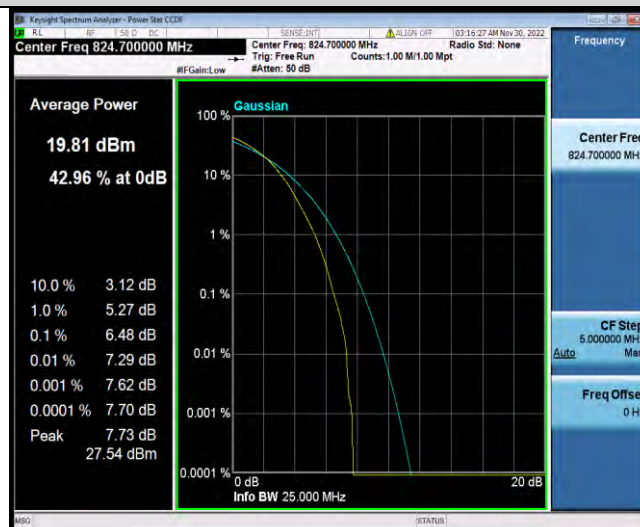
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Band26-1.4MHz-64QAM-26797-1RB#0



Band26-1.4MHz-64QAM-26797-6RB#0



Band26-1.4MHz-64QAM-26915-1RB#0



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VERITAS

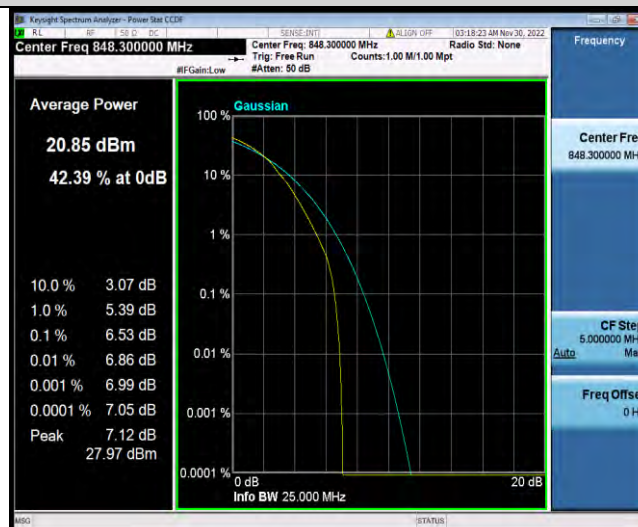
Test Report No.: W7L-P23030016RF04



Band26-1.4MHz-64QAM-26915-6RB#0



Band26-1.4MHz-64QAM-27033-1RB#0



Band26-1.4MHz-64QAM-27033-6RB#0



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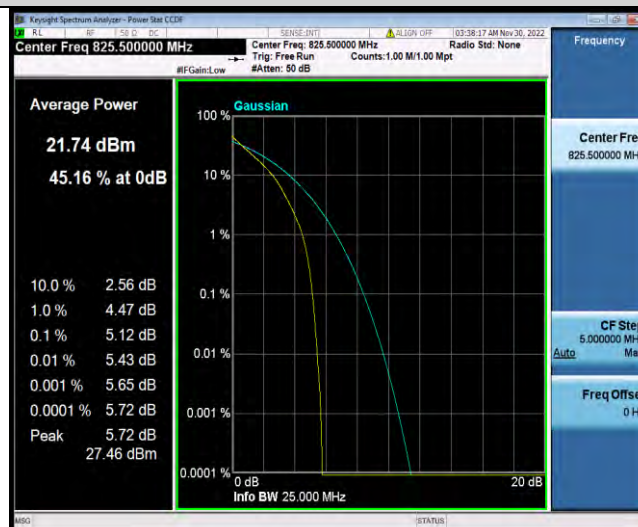
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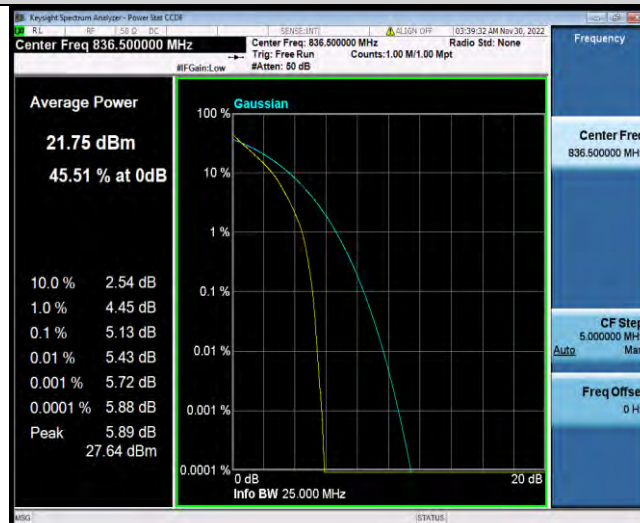


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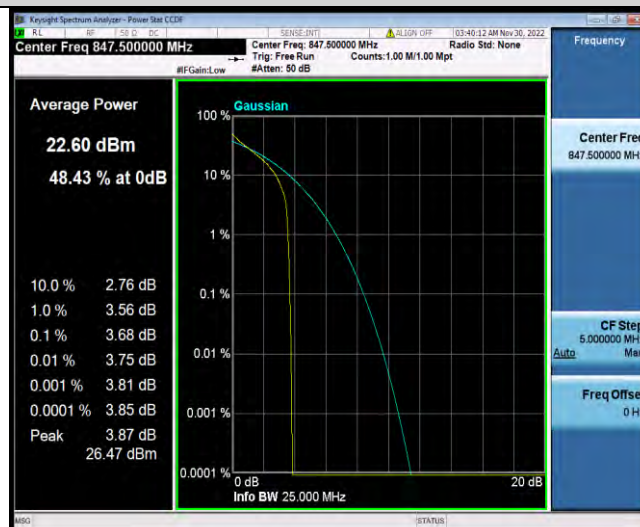
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Band26-3MHz-QPSK-27025-1RB#0

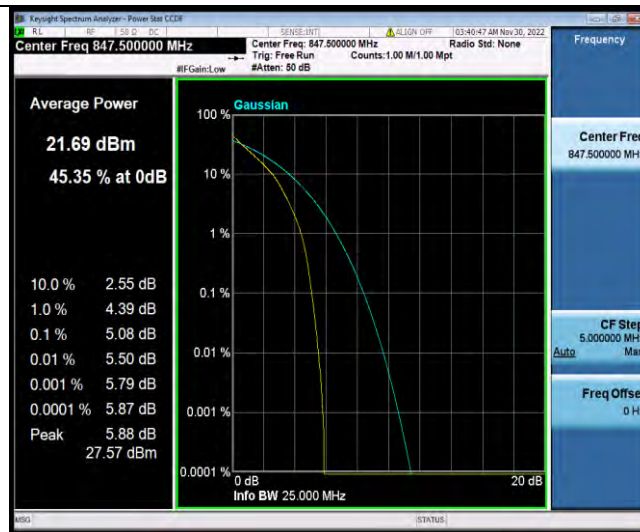


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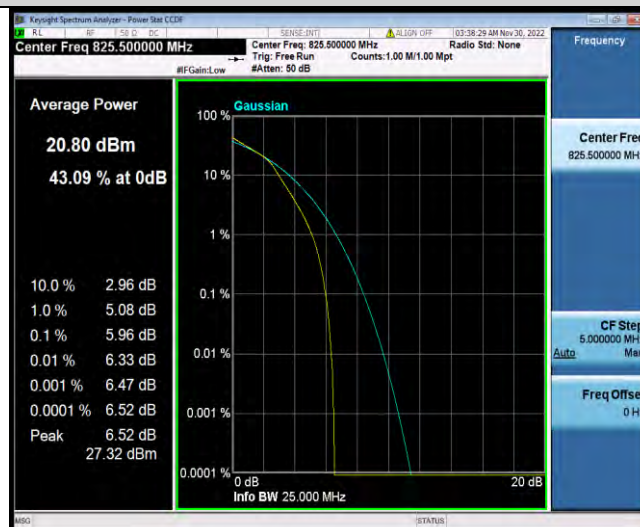
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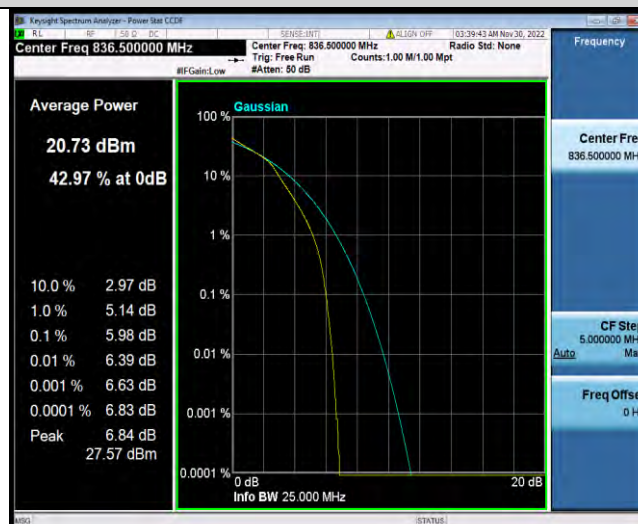


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VERITAS

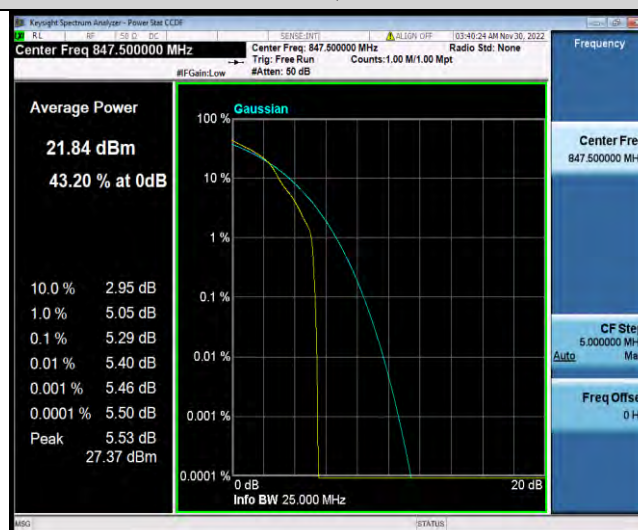
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Band26-3MHz-16QAM-26915-15RB#0



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VERITAS

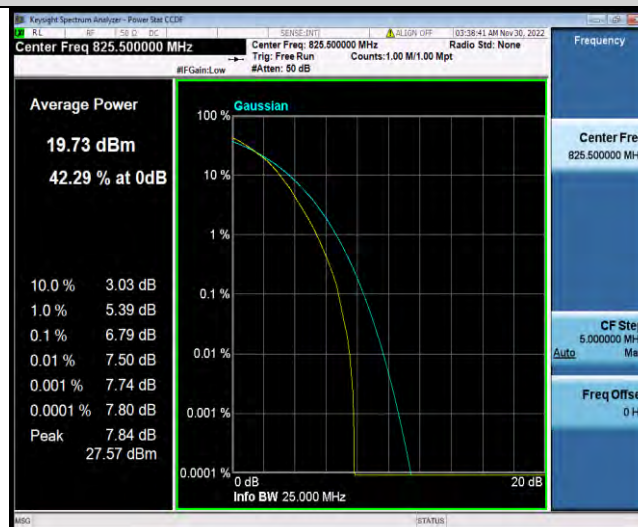
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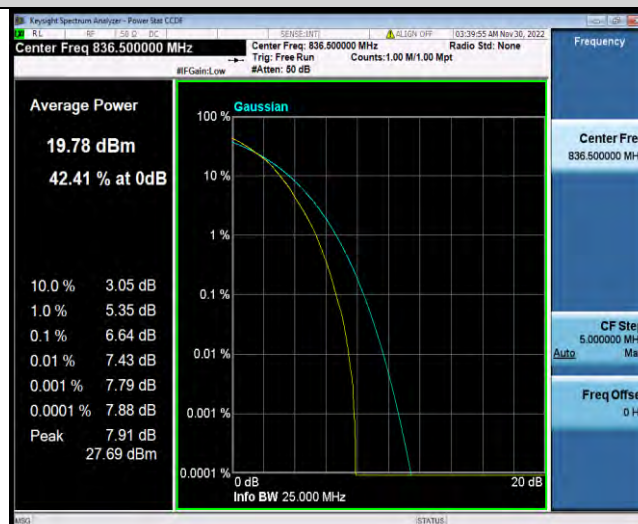


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VERITAS

Test Report No.: W7L-P23030016RF04



Band26-3MHz-64QAM-26915-15RB#0



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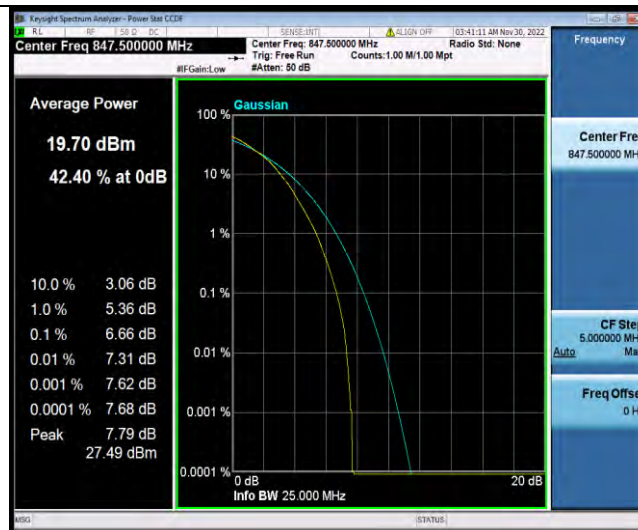


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VERITAS

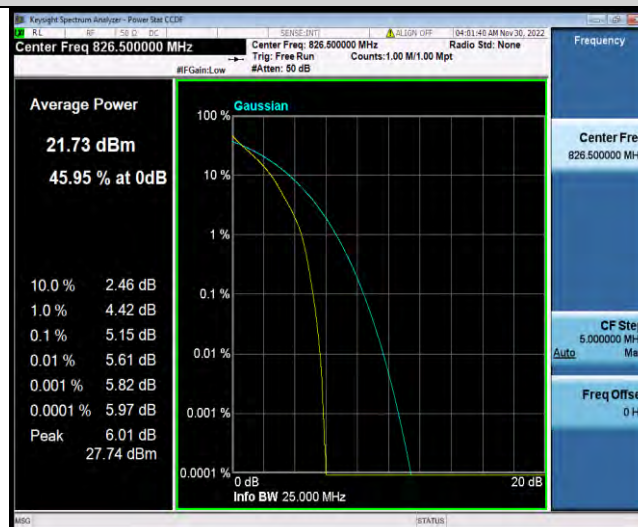
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Band26-5MHz-QPSK-26815-1RB#0



Band26-5MHz-QPSK-26815-25RB#0

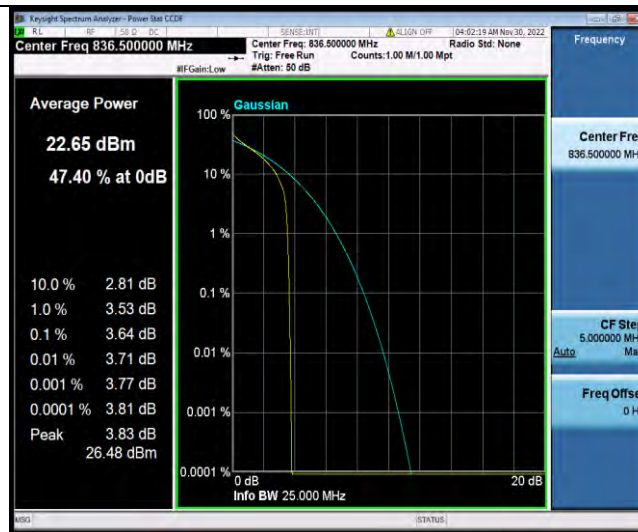


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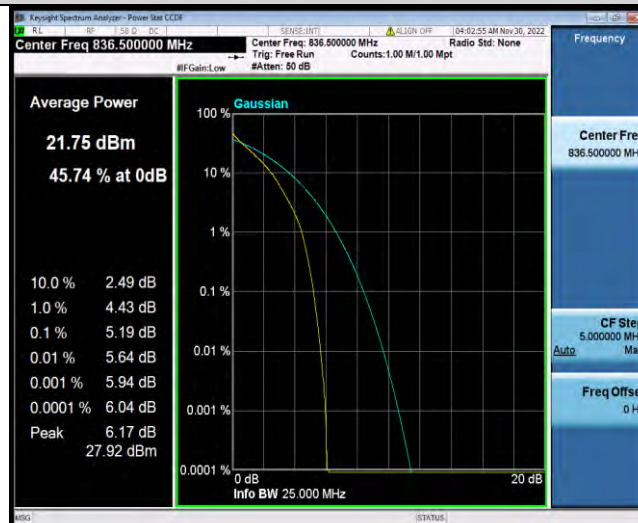


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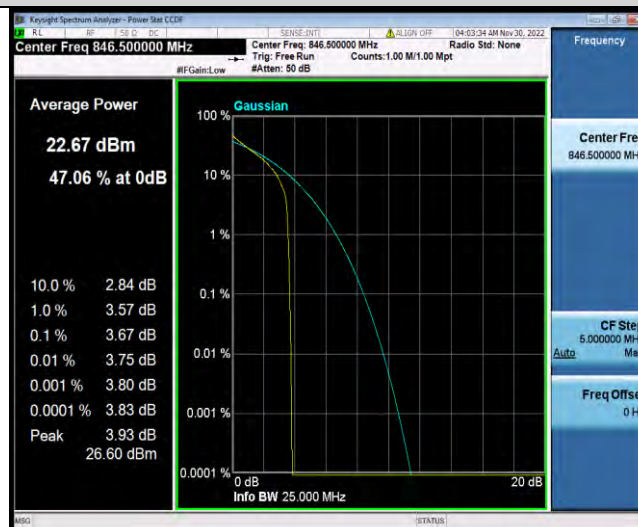
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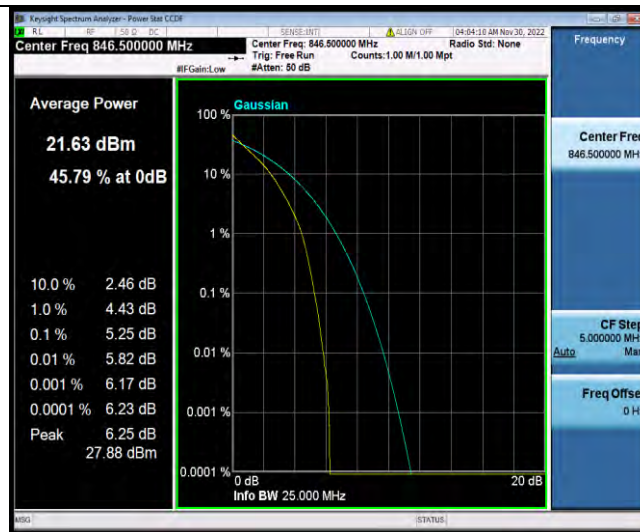


Band26-5MHz-QPSK-27015-25RB#0



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Test Report No.: W7L-P23030016RF04



Band26-5MHz-16QAM-26815-1RB#0



Band26-5MHz-16QAM-26815-25RB#0



Band26-5MHz-16QAM-26915-1RB#0



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VERITAS

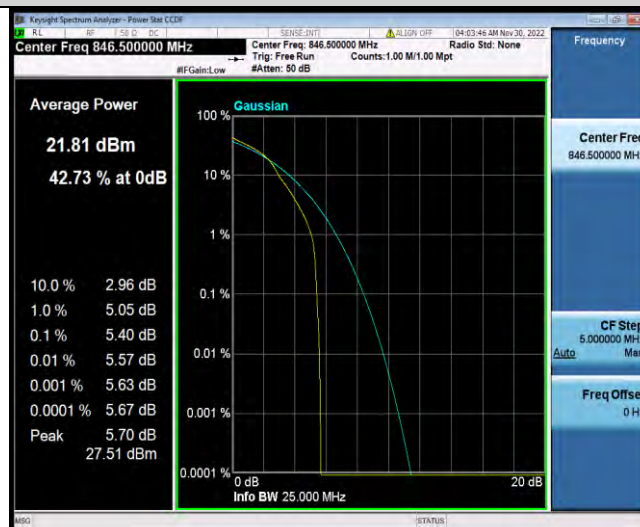
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Band26-5MHz-16QAM-26915-25RB#0



Band26-5MHz-16QAM-27015-1RB#0



Band26-5MHz-16QAM-27015-25RB#0



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VERITAS

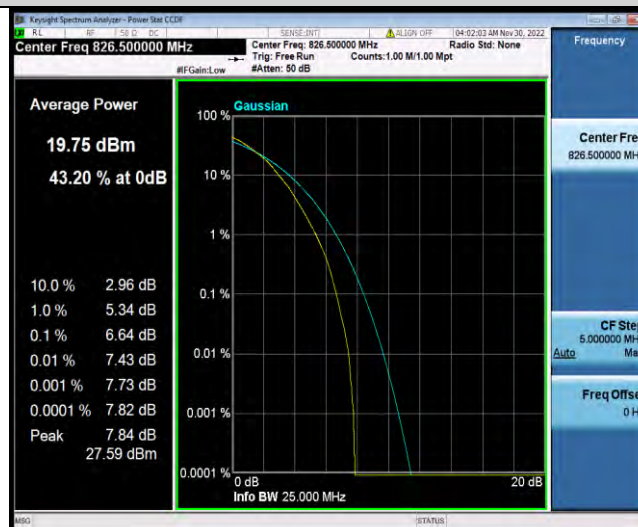
Test Report No.: W7L-P23030016RF04



Band26-5MHz-64QAM-26815-1RB#0



Band26-5MHz-64QAM-26815-25RB#0



Band26-5MHz-64QAM-26915-1RB#0