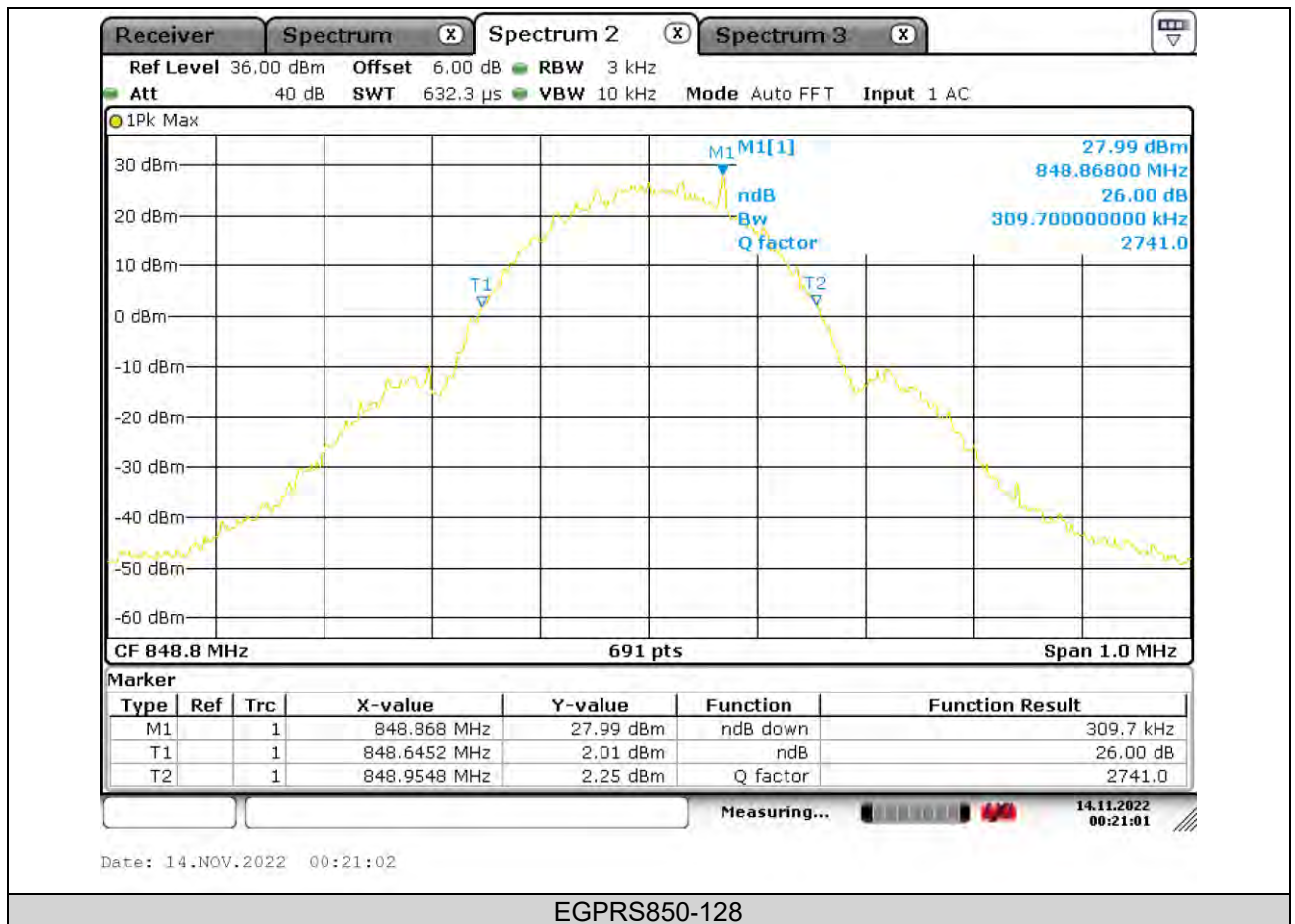




BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

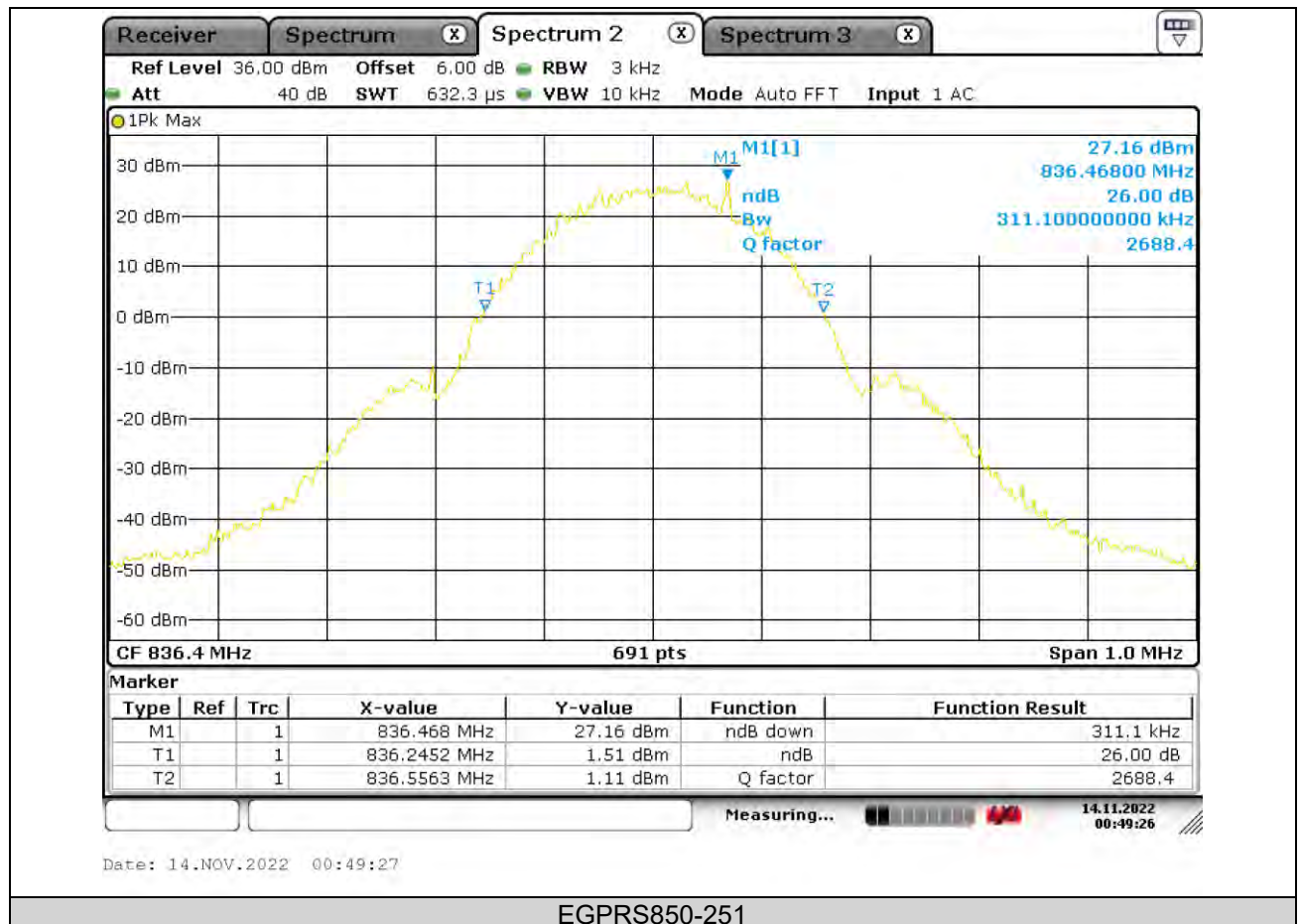
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

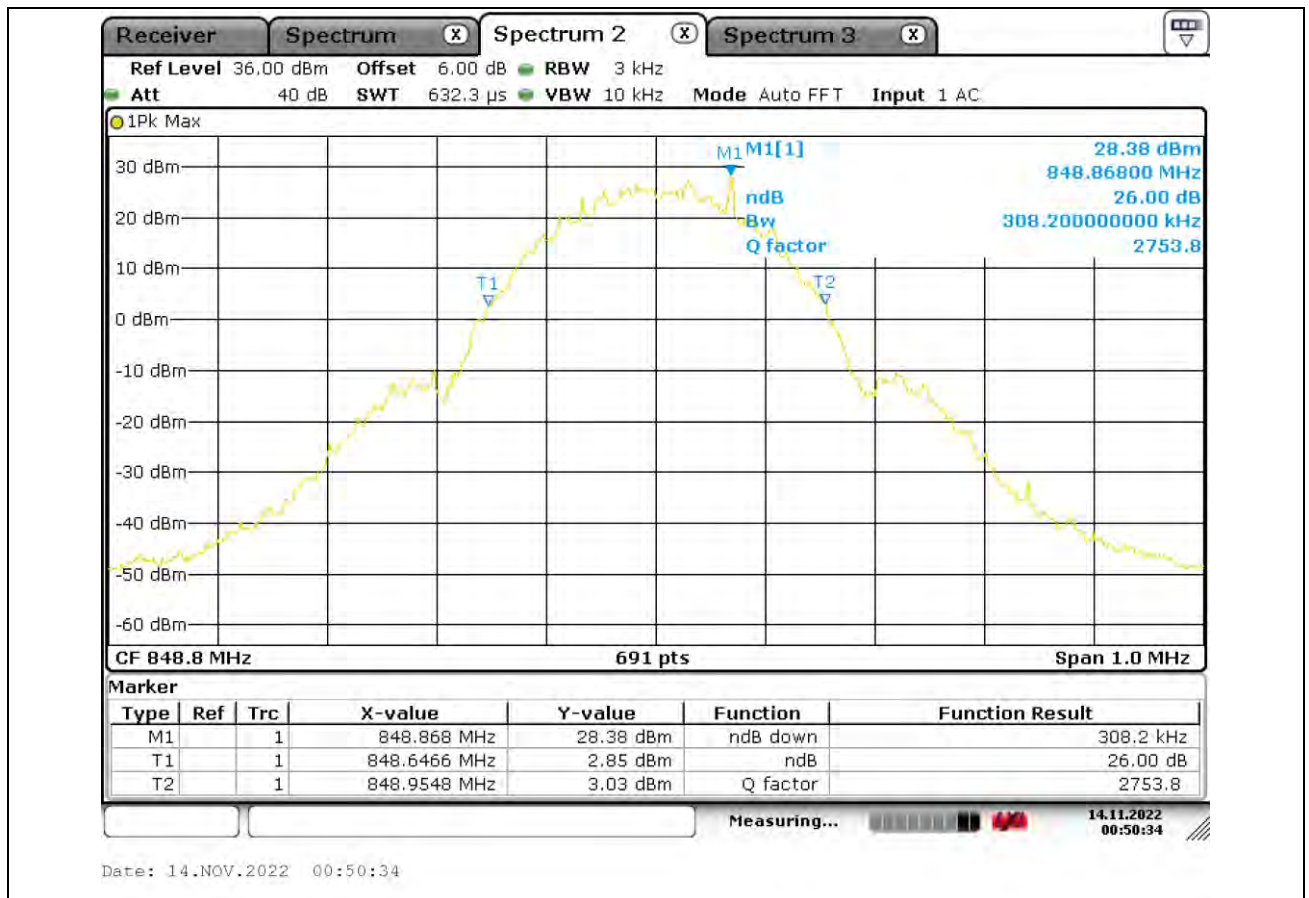
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03

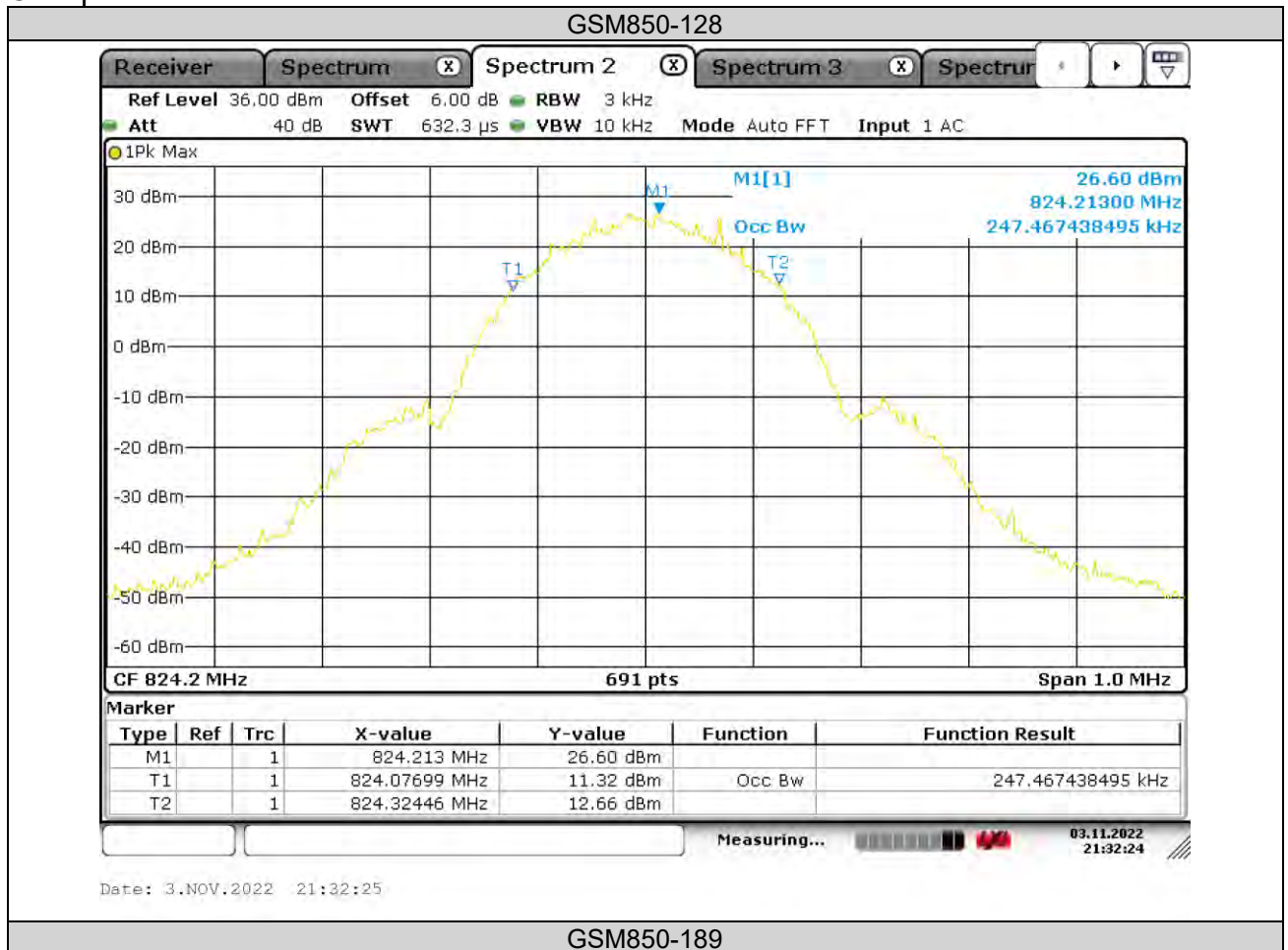




BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03

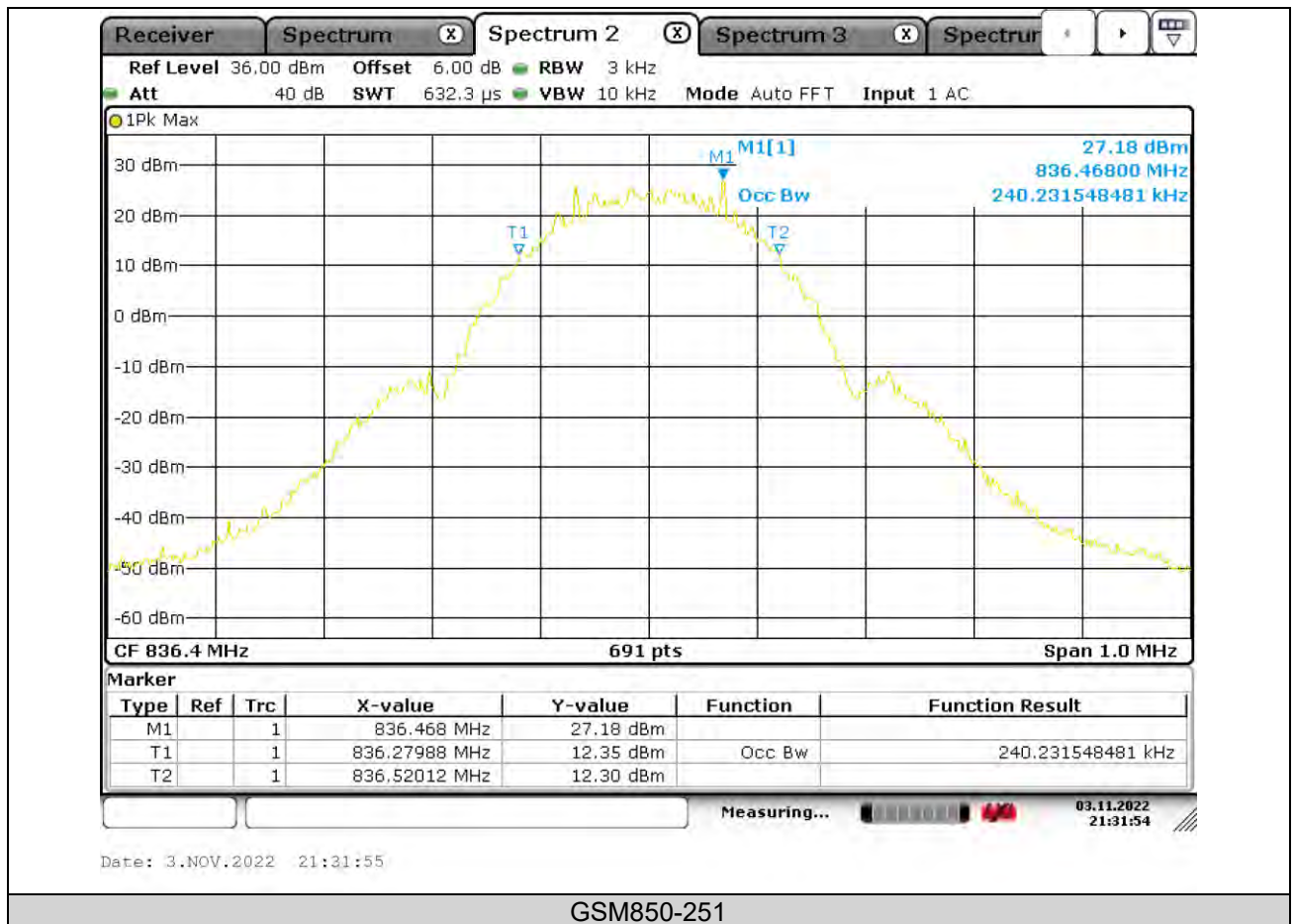
Occupied Bandwidth





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VERITAS

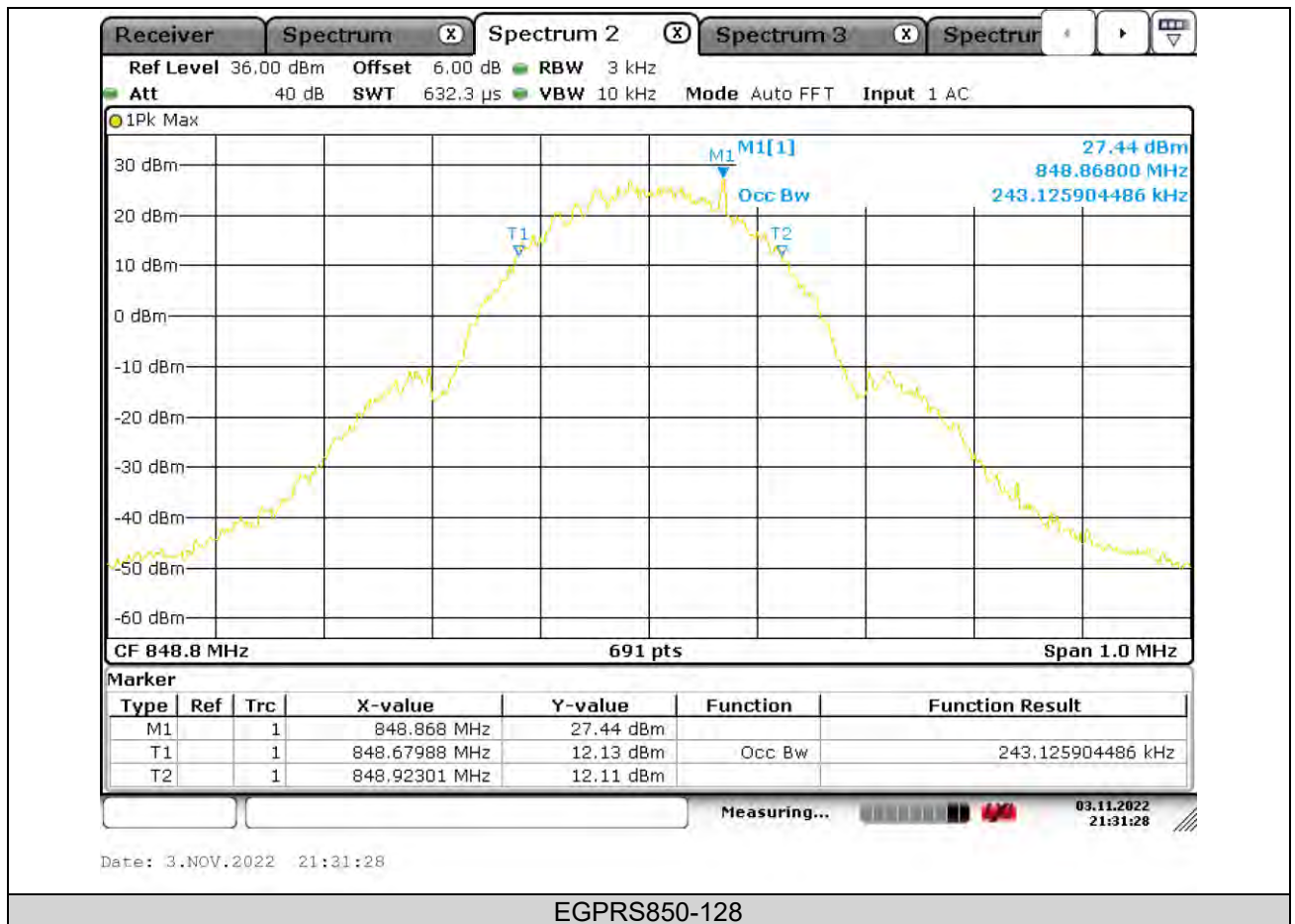
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

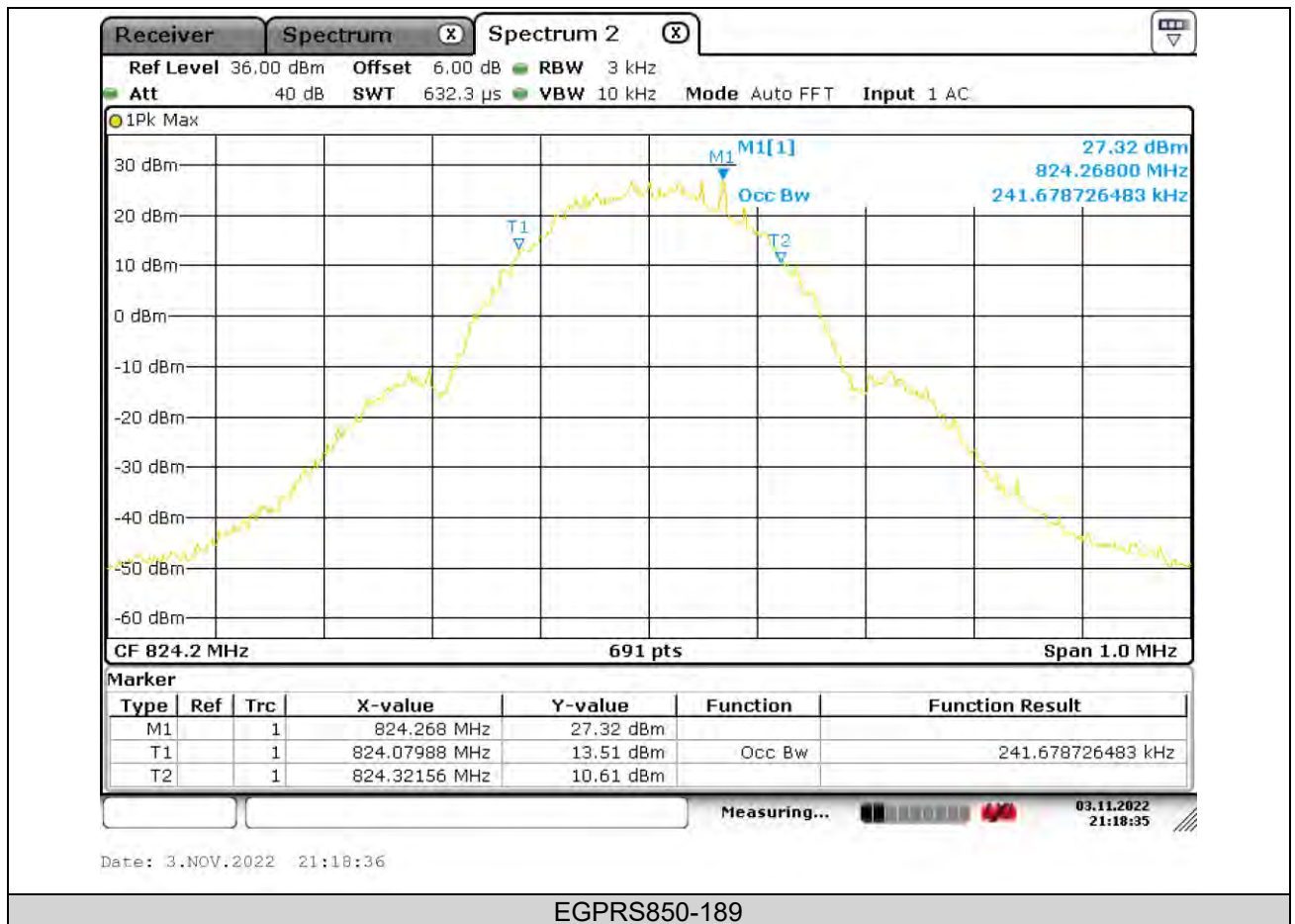
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

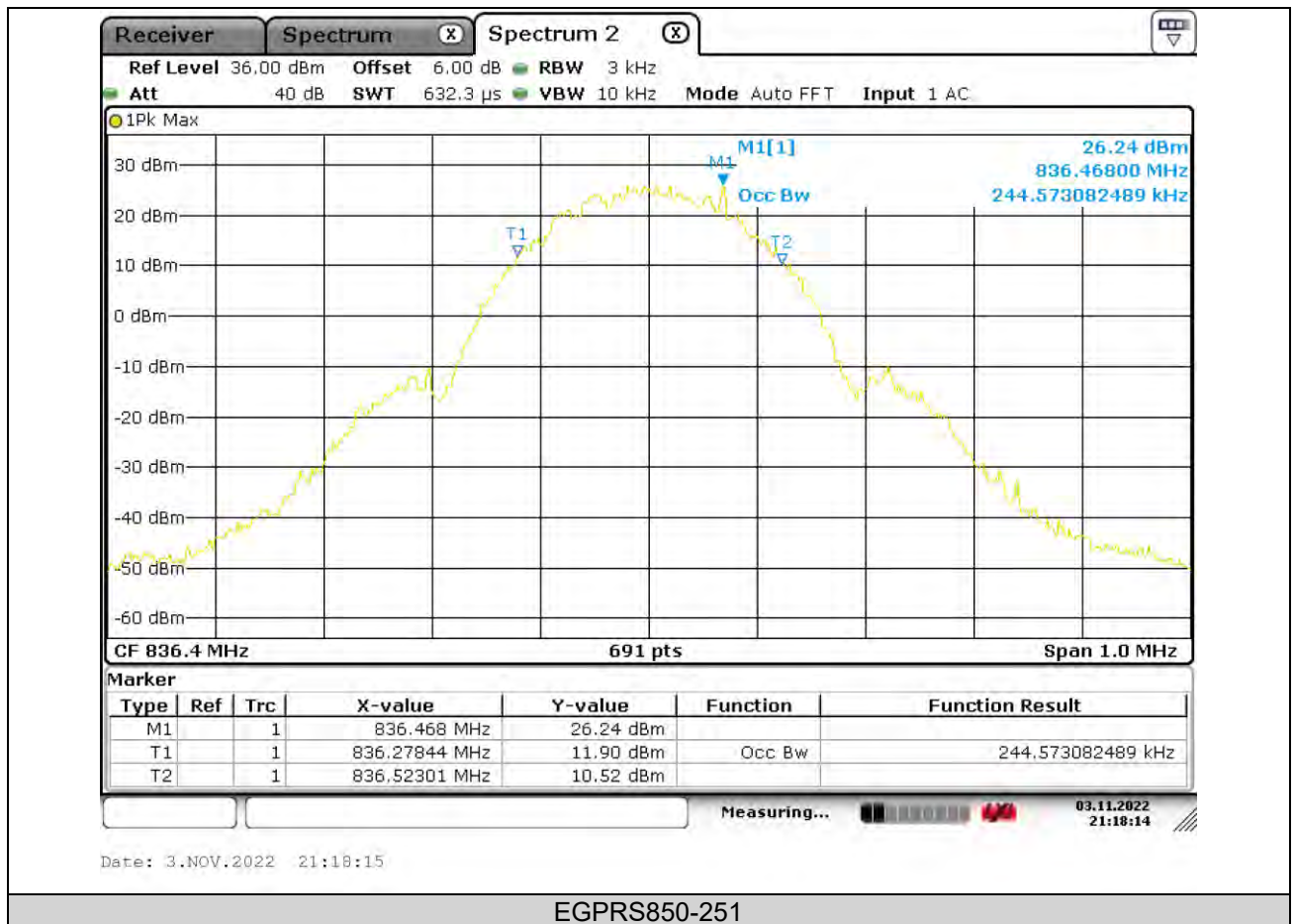
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BUREAU
VERITAS

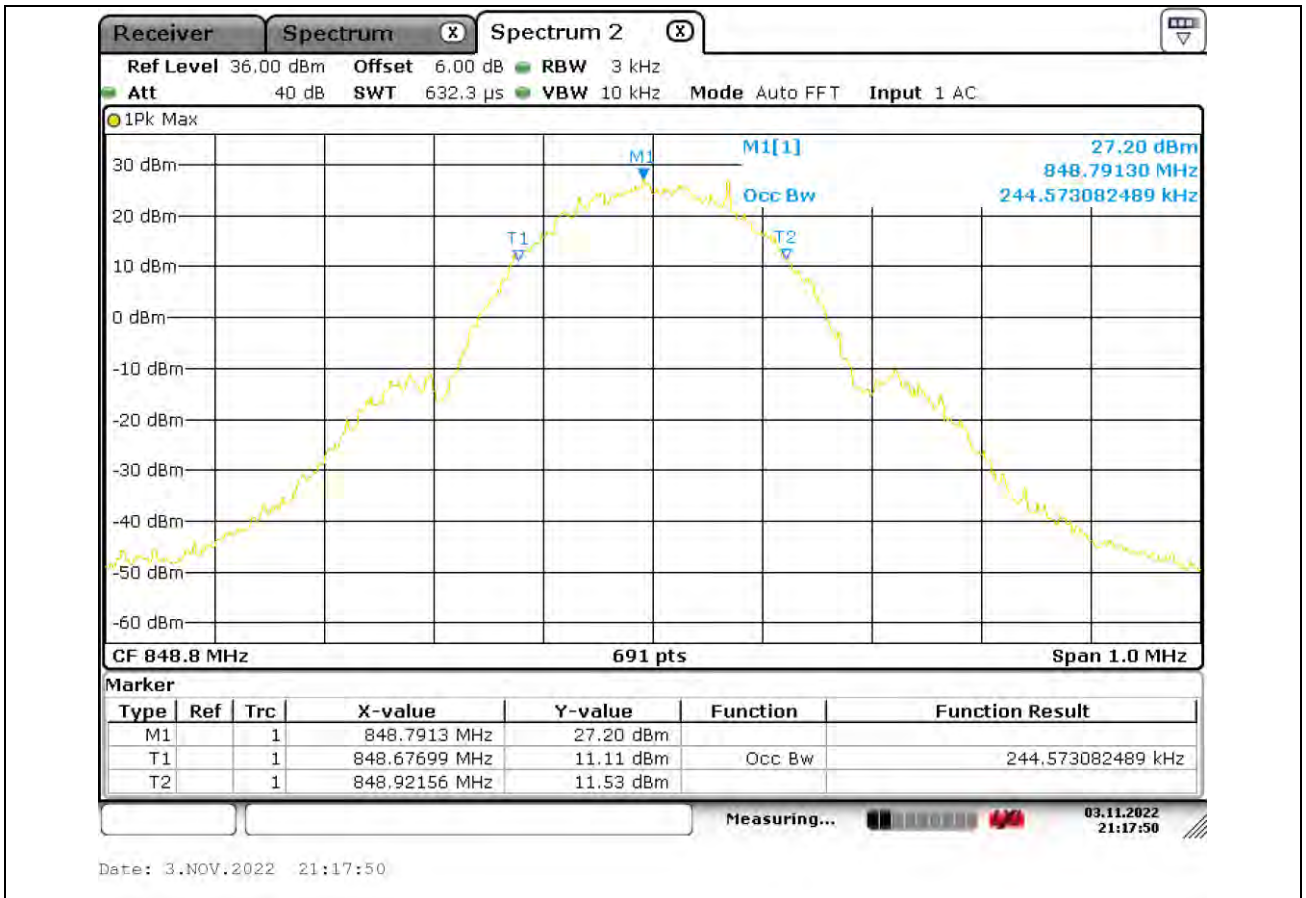
Test Report No.: W7L-P22090023RF03





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VERITAS

Test Report No.: W7L-P22090023RF03



BAND EDGE

Test Result

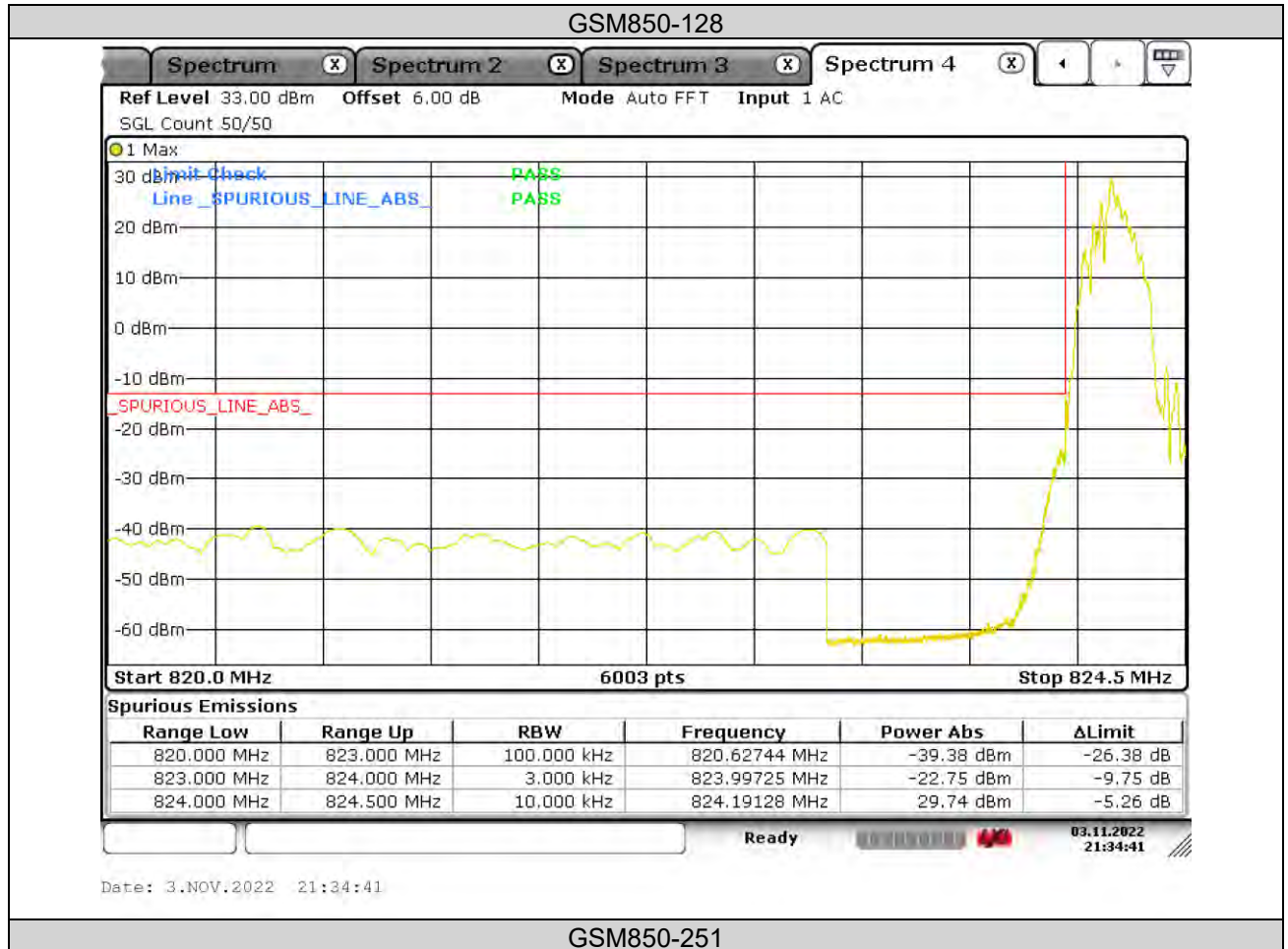
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.99	-22.75	-13	PASS
GSM850	251	849.02	-22.09	-13	PASS
EGPRS850	128	823.99	-22.14	-13	PASS
EGPRS850	251	849.02	-21.97	-13	PASS



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03

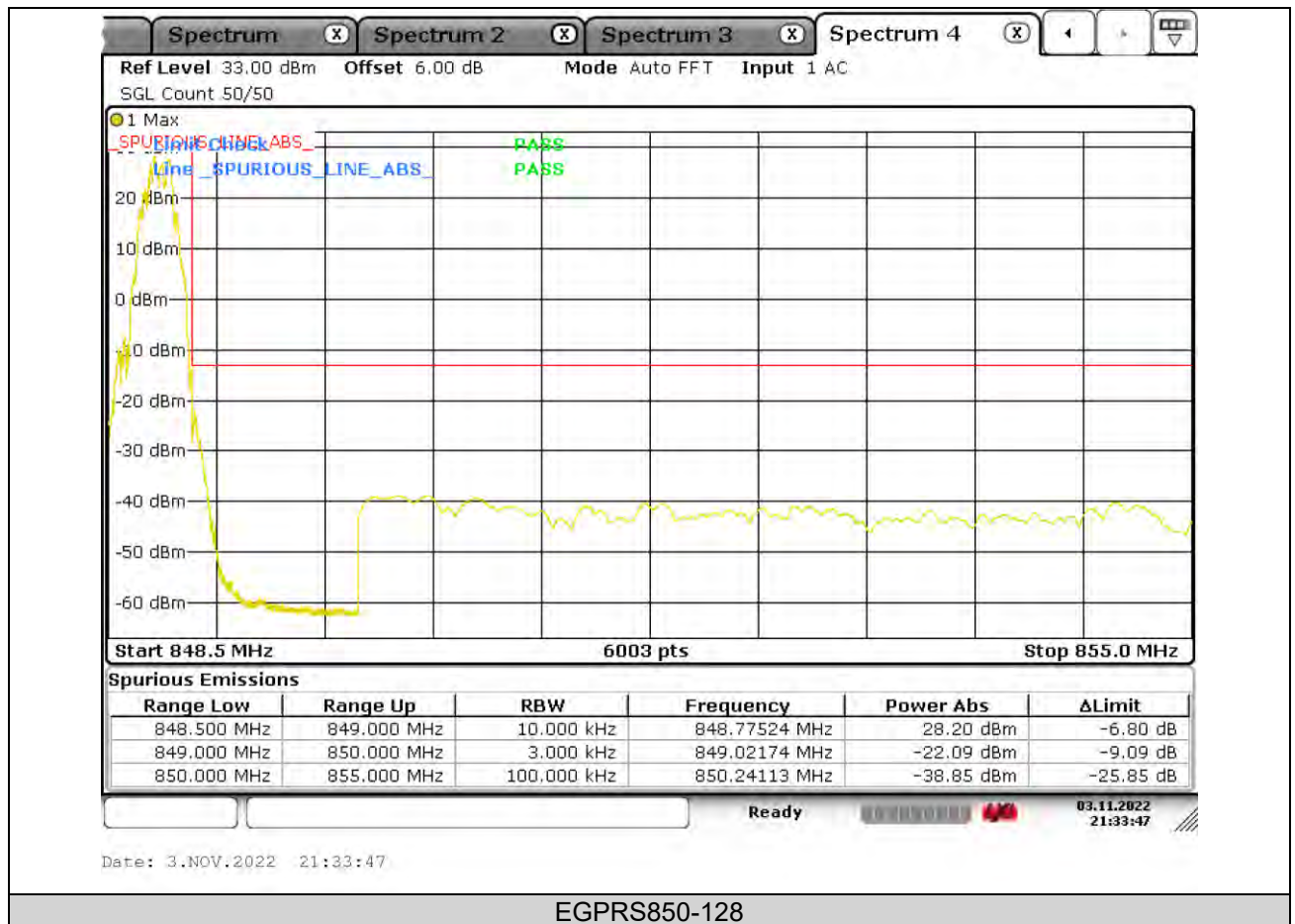
Test Graphs





BUREAU
VERITAS

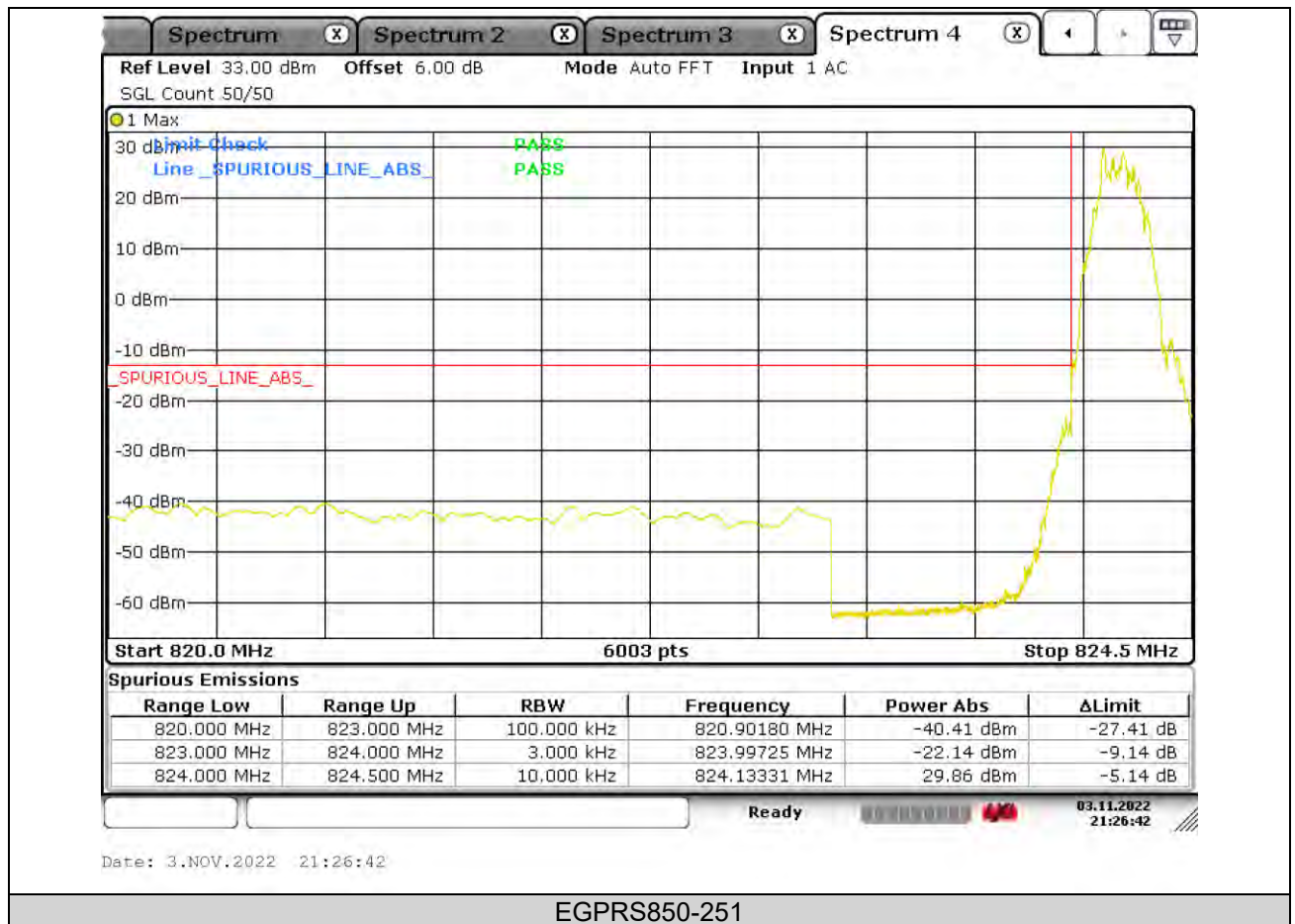
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

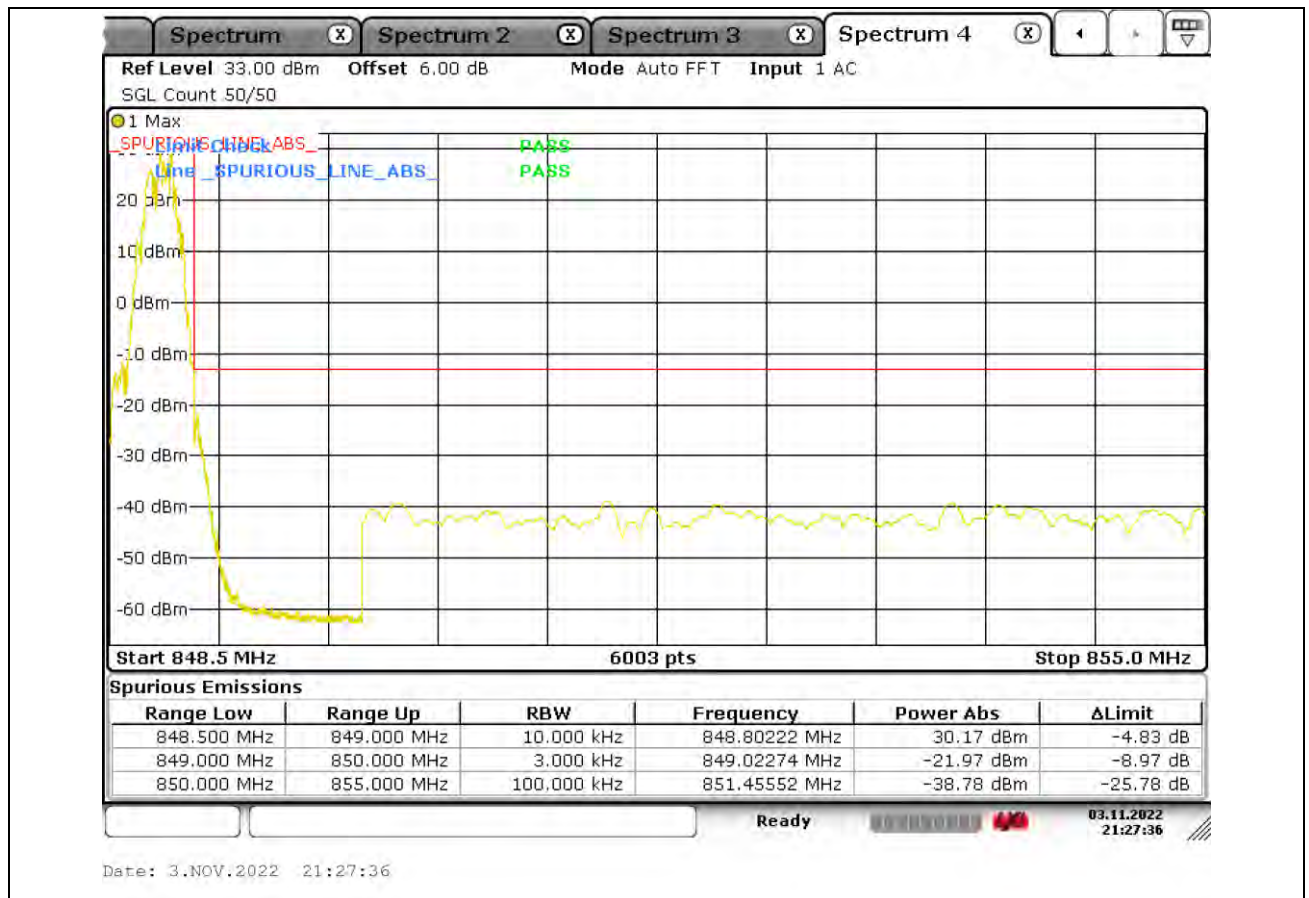
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03



CONDUCTED SPURIOUS EMISSION

Test Result

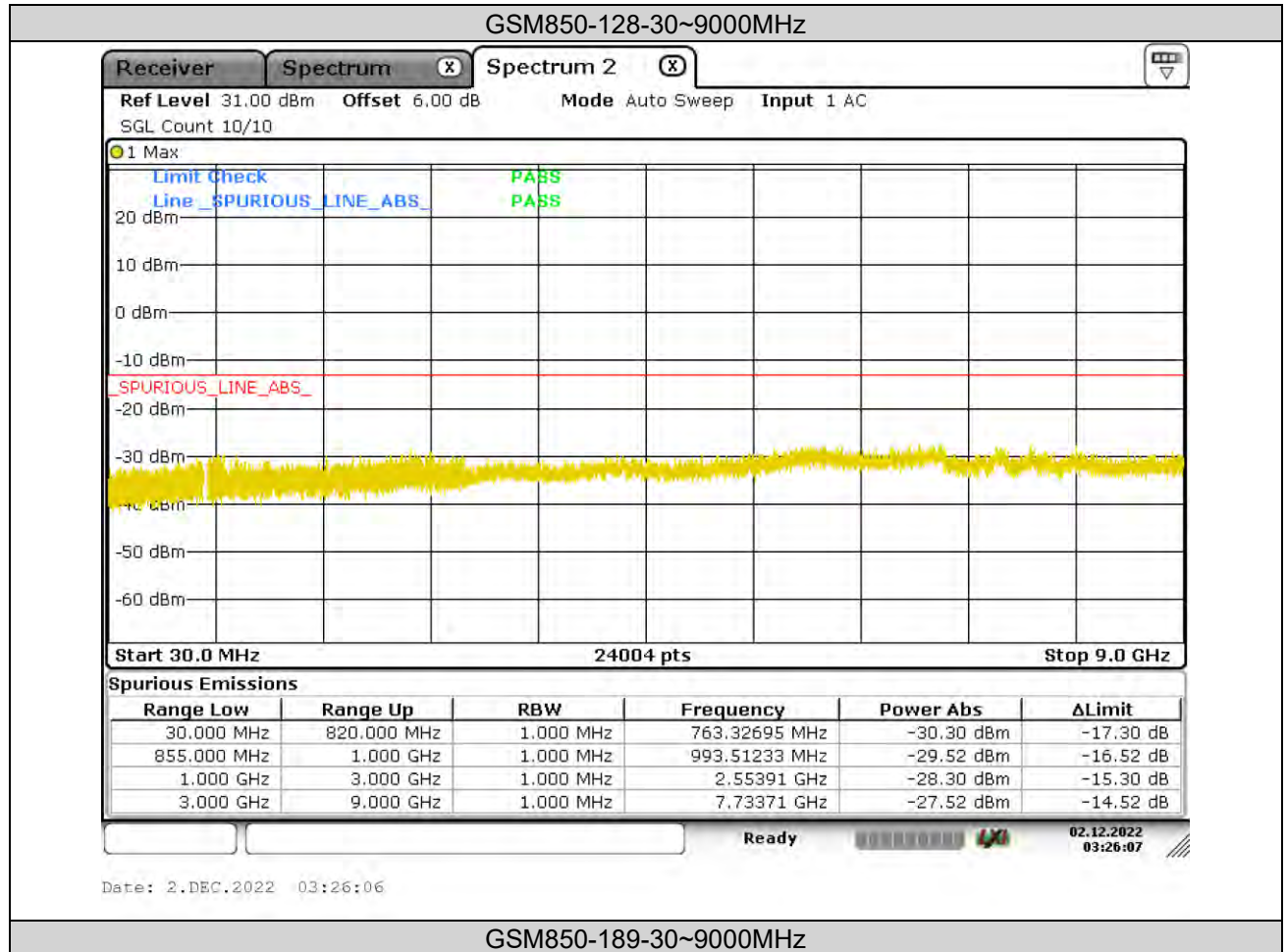
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	993.51	-29.52	-13	PASS
GSM850	128	1000~9000MHz	7733.71	-27.52	-13	PASS
GSM850	189	30~1000MHz	884.85	-29.90	-13	PASS
GSM850	189	1000~9000MHz	6908.85	-26.47	-13	PASS
GSM850	251	30~1000MHz	980.56	-28.92	-13	PASS
GSM850	251	1000~9000MHz	7429.76	-26.2	-13	PASS
EGPRS850	128	30~1000MHz	959.81	-30.57	-13	PASS
EGPRS850	128	1000~9000MHz	2804.90	-25.25	-13	PASS
EGPRS850	189	30~1000MHz	954.81	-30.63	-13	PASS
EGPRS850	189	1000~9000MHz	5963.38	-25.21	-13	PASS
EGPRS850	251	30~1000MHz	919.23	-30.19	-13	PASS
EGPRS850	251	1000~9000MHz	5955.88	-24.44	-13	PASS



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03

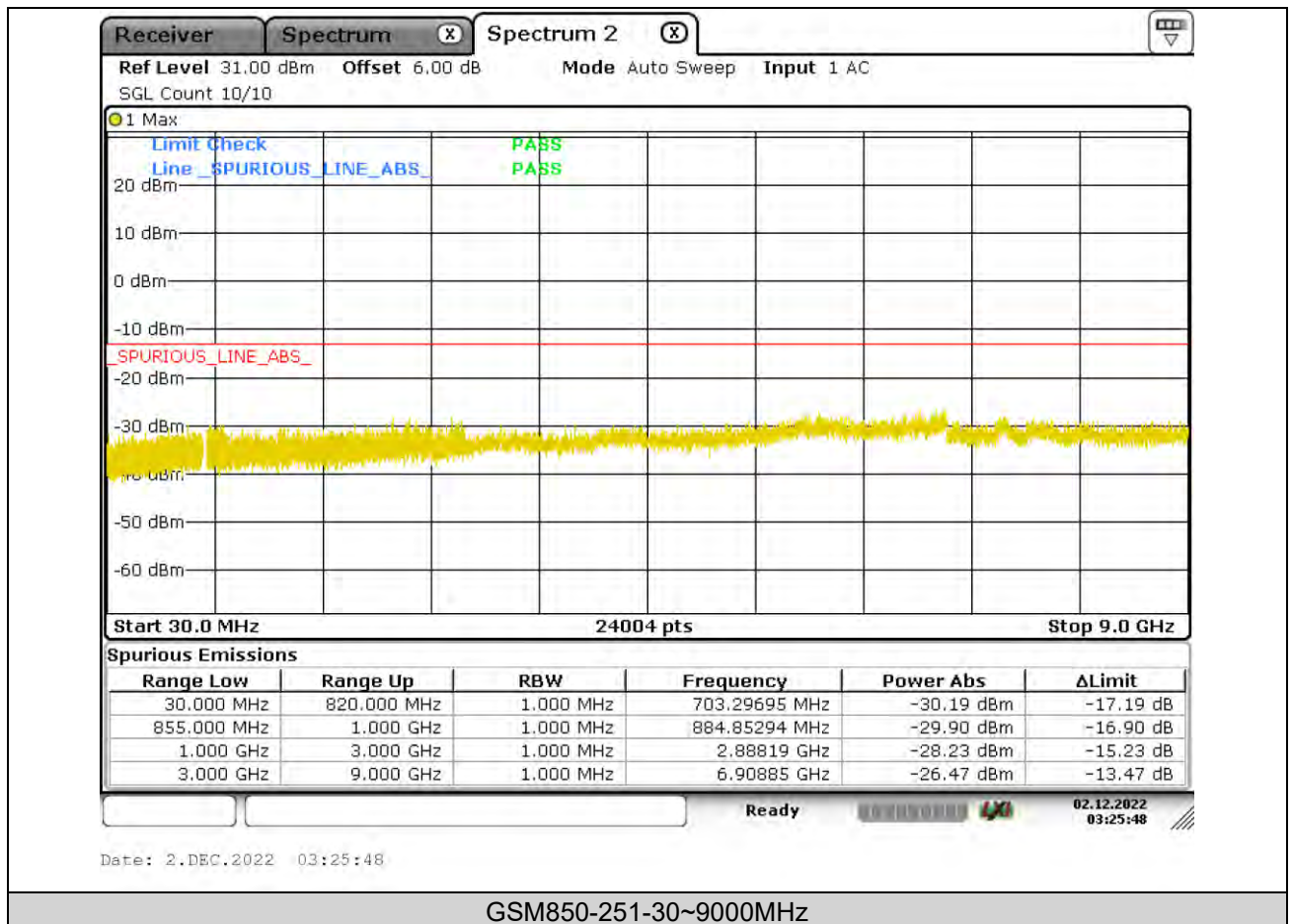
Test Graphs





BUREAU
VERITAS

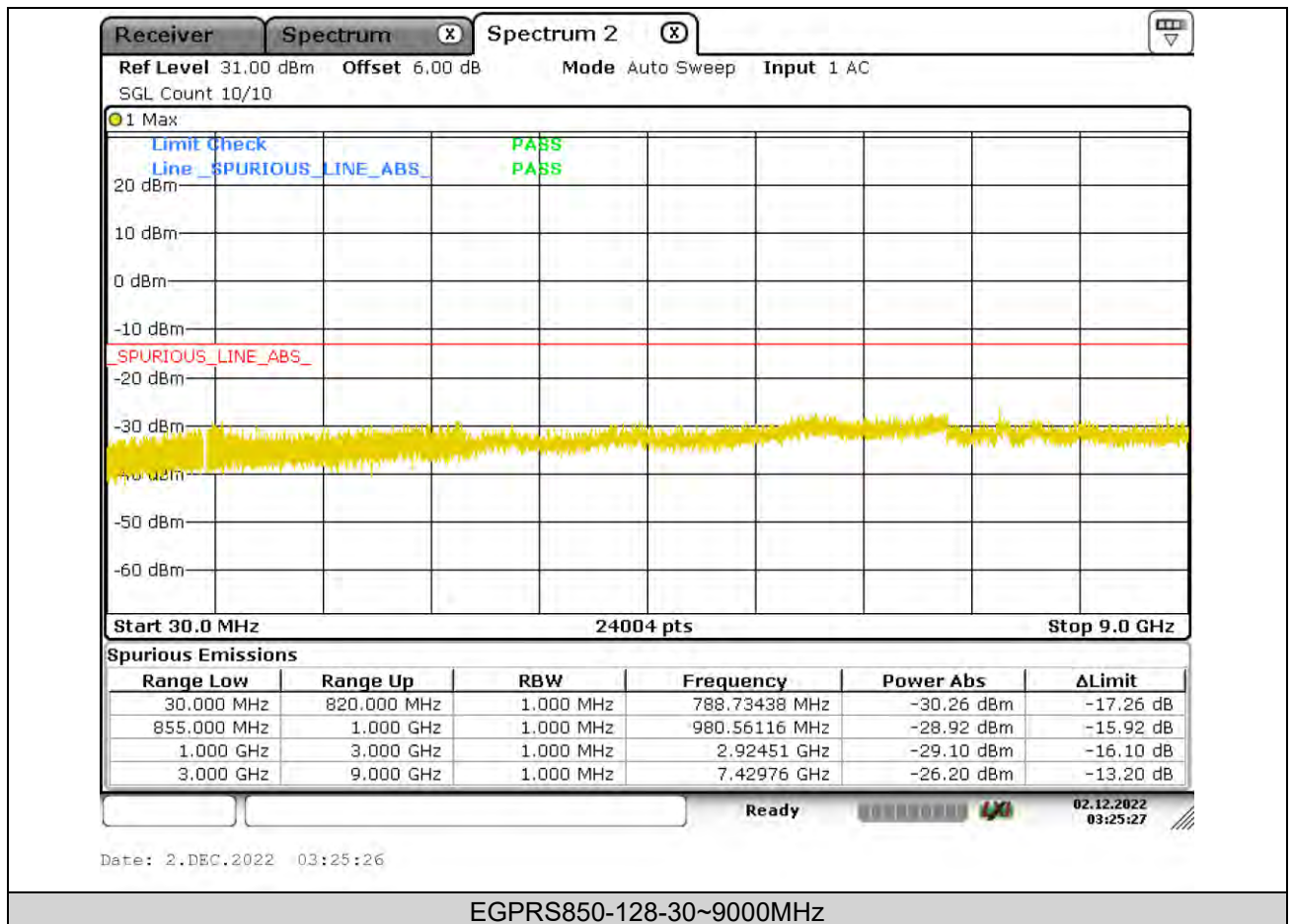
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

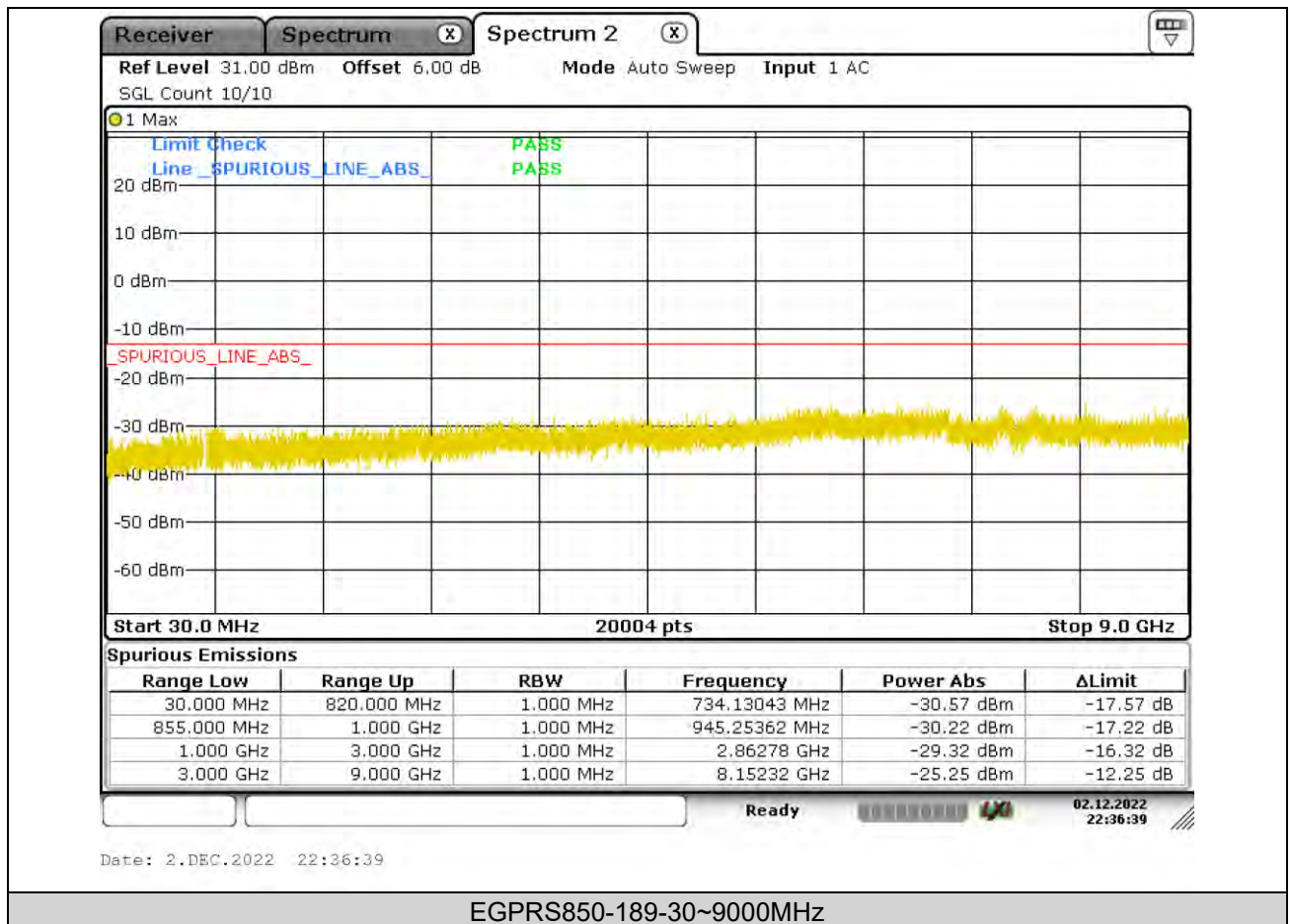
Test Report No.: W7L-P22090023RF03





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03





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VERITAS

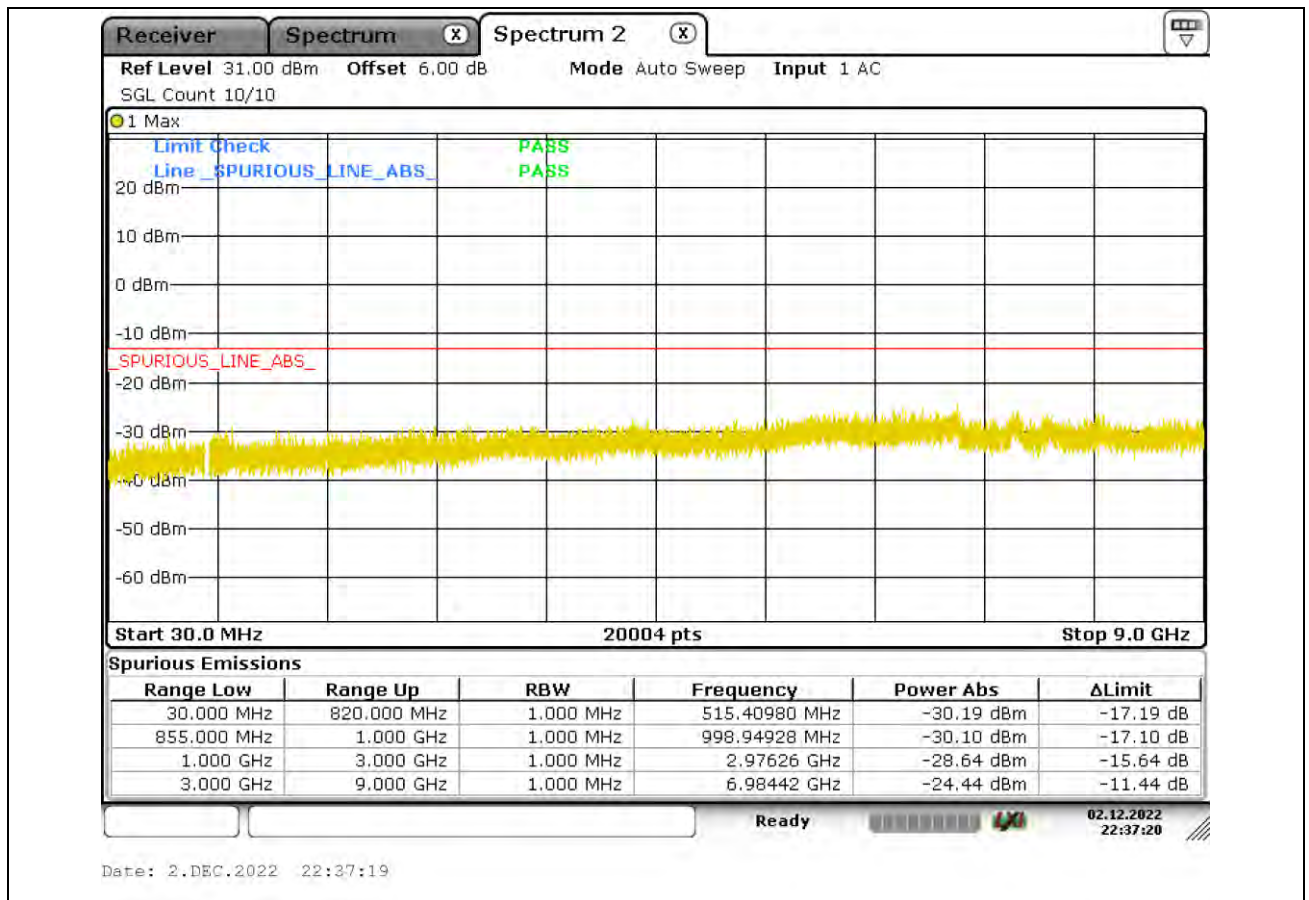
Test Report No.: W7L-P22090023RF03





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VERITAS

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FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	-2.54	-0.003082	±2.5	PASS
GSM850	128	VN	NT	2.47	0.002997	±2.5	PASS
GSM850	128	VH	NT	4.57	0.005545	±2.5	PASS
GSM850	189	VL	NT	9.86	0.011789	±2.5	PASS
GSM850	189	VN	NT	-3.78	-0.004519	±2.5	PASS
GSM850	189	VH	NT	4.29	0.005129	±2.5	PASS
GSM850	251	VL	NT	-2.52	-0.002969	±2.5	PASS
GSM850	251	VN	NT	-1.41	-0.001661	±2.5	PASS
GSM850	251	VH	NT	6.4	0.007540	±2.5	PASS
EGPRS850	128	VL	NT	7.58	0.009197	±2.5	PASS
EGPRS850	128	VN	NT	-0.77	-0.000934	±2.5	PASS
EGPRS850	128	VH	NT	-9.52	-0.011551	±2.5	PASS
EGPRS850	189	VL	NT	1.83	0.002188	±2.5	PASS
EGPRS850	189	VN	NT	7.5	0.008967	±2.5	PASS
EGPRS850	189	VH	NT	1.37	0.001638	±2.5	PASS
EGPRS850	251	VL	NT	-6.06	-0.007139	±2.5	PASS
EGPRS850	251	VN	NT	8.38	0.009873	±2.5	PASS
EGPRS850	251	VH	NT	8.09	0.009531	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-9.29	-0.011272	±2.5	PASS
GSM850	128	NV	-20	-1.96	-0.002378	±2.5	PASS
GSM850	128	NV	-10	4.34	0.005266	±2.5	PASS
GSM850	128	NV	0	-2.59	-0.003142	±2.5	PASS
GSM850	128	NV	10	4.66	0.005654	±2.5	PASS
GSM850	128	NV	20	9.49	0.011514	±2.5	PASS
GSM850	128	NV	30	-5.36	-0.006503	±2.5	PASS
GSM850	128	NV	40	3.45	0.004186	±2.5	PASS
GSM850	128	NV	50	-5.04	-0.006115	±2.5	PASS



GSM850	189	NV	-30	-1.86	-0.002224	±2.5	PASS
GSM850	189	NV	-20	-7.11	-0.008501	±2.5	PASS
GSM850	189	NV	-10	9.11	0.010892	±2.5	PASS
GSM850	189	NV	0	8.76	0.010473	±2.5	PASS
GSM850	189	NV	10	-1.46	-0.001746	±2.5	PASS
GSM850	189	NV	20	5.7	0.006815	±2.5	PASS
GSM850	189	NV	30	4.73	0.005655	±2.5	PASS
GSM850	189	NV	40	2.59	0.003097	±2.5	PASS
GSM850	189	NV	50	-2.48	-0.002965	±2.5	PASS
GSM850	251	NV	-30	9.51	0.011204	±2.5	PASS
GSM850	251	NV	-20	-1.13	-0.001331	±2.5	PASS
GSM850	251	NV	-10	9.7	0.011428	±2.5	PASS
GSM850	251	NV	0	-9.34	-0.011004	±2.5	PASS
GSM850	251	NV	10	6.49	0.007646	±2.5	PASS
GSM850	251	NV	20	4.06	0.004783	±2.5	PASS
GSM850	251	NV	30	-2.22	-0.002615	±2.5	PASS
GSM850	251	NV	40	0.25	0.000295	±2.5	PASS
GSM850	251	NV	50	5.5	0.006480	±2.5	PASS
EGPRS850	128	NV	-30	4.83	0.002611	±2.5	PASS
EGPRS850	128	NV	-20	2.41	0.001303	±2.5	PASS
EGPRS850	128	NV	-10	6.67	0.003605	±2.5	PASS
EGPRS850	128	NV	0	1.9	0.001027	±2.5	PASS
EGPRS850	128	NV	10	6.15	0.003324	±2.5	PASS
EGPRS850	128	NV	20	2.26	0.001221	±2.5	PASS
EGPRS850	128	NV	30	5.86	0.003167	±2.5	PASS
EGPRS850	189	NV	40	-9.16	-0.004951	±2.5	PASS
EGPRS850	189	NV	50	5.89	0.003183	±2.5	PASS
EGPRS850	189	NV	-30	-4.23	-0.002250	±2.5	PASS
EGPRS850	189	NV	-20	9.83	0.005229	±2.5	PASS
EGPRS850	189	NV	-10	-1.47	-0.000782	±2.5	PASS
EGPRS850	189	NV	0	-5.66	-0.003011	±2.5	PASS
EGPRS850	189	NV	10	-4.69	-0.002495	±2.5	PASS
EGPRS850	189	NV	20	7.95	0.004229	±2.5	PASS
EGPRS850	189	NV	30	3.66	0.001947	±2.5	PASS
EGPRS850	189	NV	40	-1.65	-0.000878	±2.5	PASS



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VERITAS

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EGPRS85 0	189	NV	50	-1.36	-0.000723	±2.5	PASS
EGPRS85 0	251	NV	-30	8.2	0.004294	±2.5	PASS
EGPRS85 0	251	NV	-20	6.36	0.003330	±2.5	PASS
EGPRS85 0	251	NV	-10	9.19	0.004812	±2.5	PASS
EGPRS85 0	251	NV	0	-9.16	-0.004796	±2.5	PASS
EGPRS85 0	251	NV	10	-7.66	-0.004011	±2.5	PASS
EGPRS85 0	251	NV	20	3.8	0.001990	±2.5	PASS
EGPRS85 0	251	NV	30	-5.38	-0.002817	±2.5	PASS
EGPRS85 0	251	NV	40	-0.76	-0.000398	±2.5	PASS
EGPRS85 0	251	NV	50	9.89	0.005179	±2.5	PASS

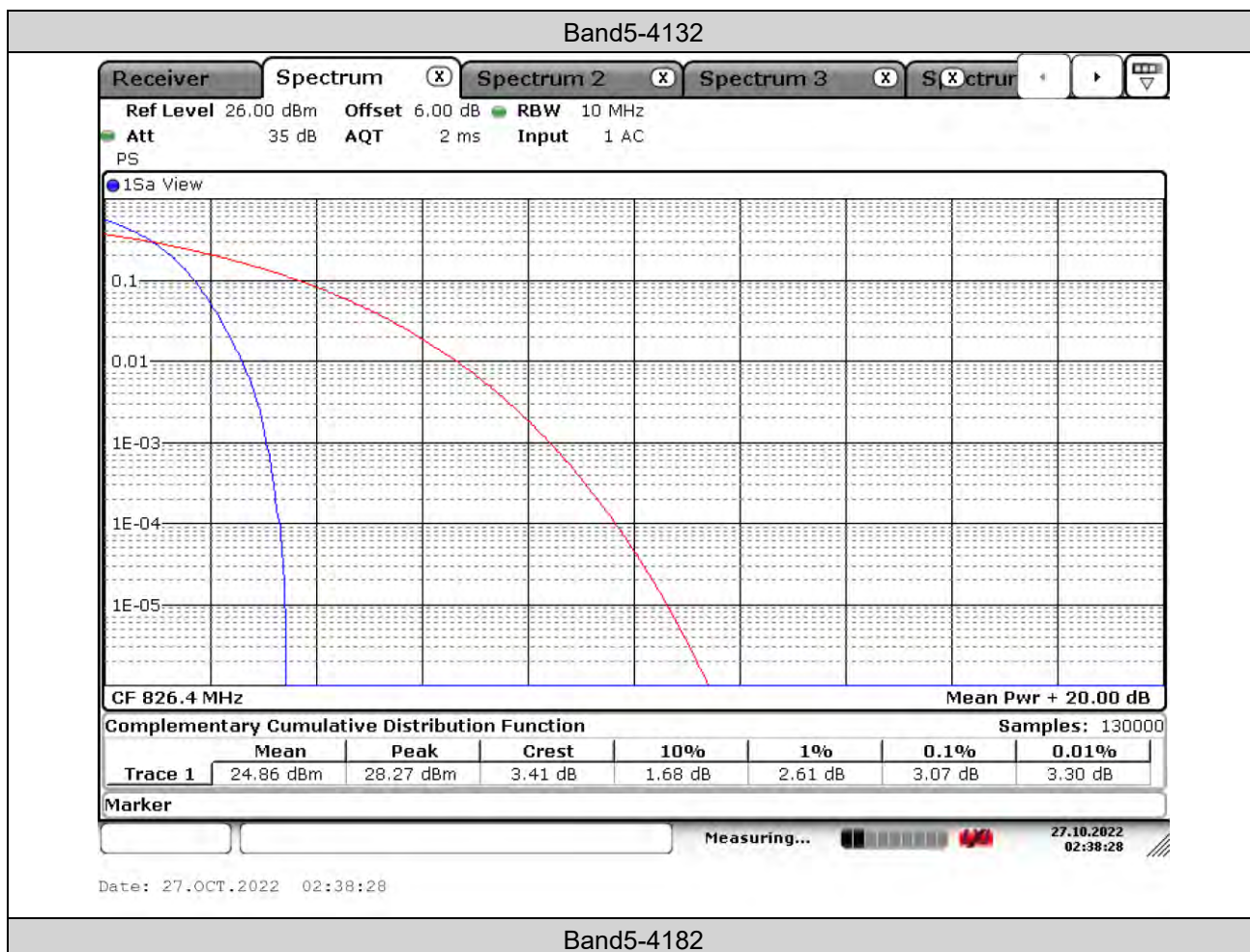
WCMDA BAND5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.07	13	PASS
Band5	4182	2.99	13	PASS
Band5	4233	3.01	13	PASS

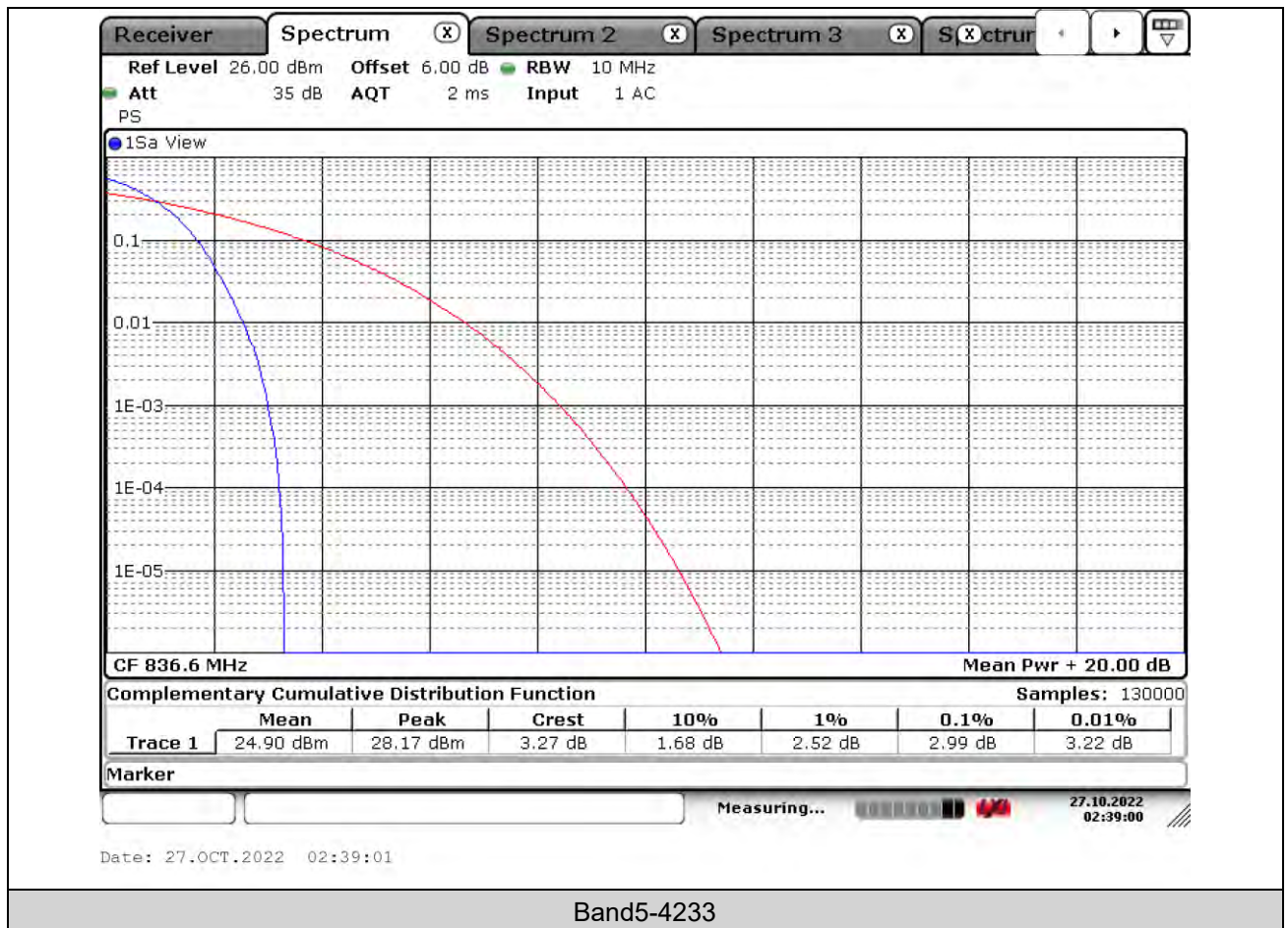
Test Graphs





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VERITAS

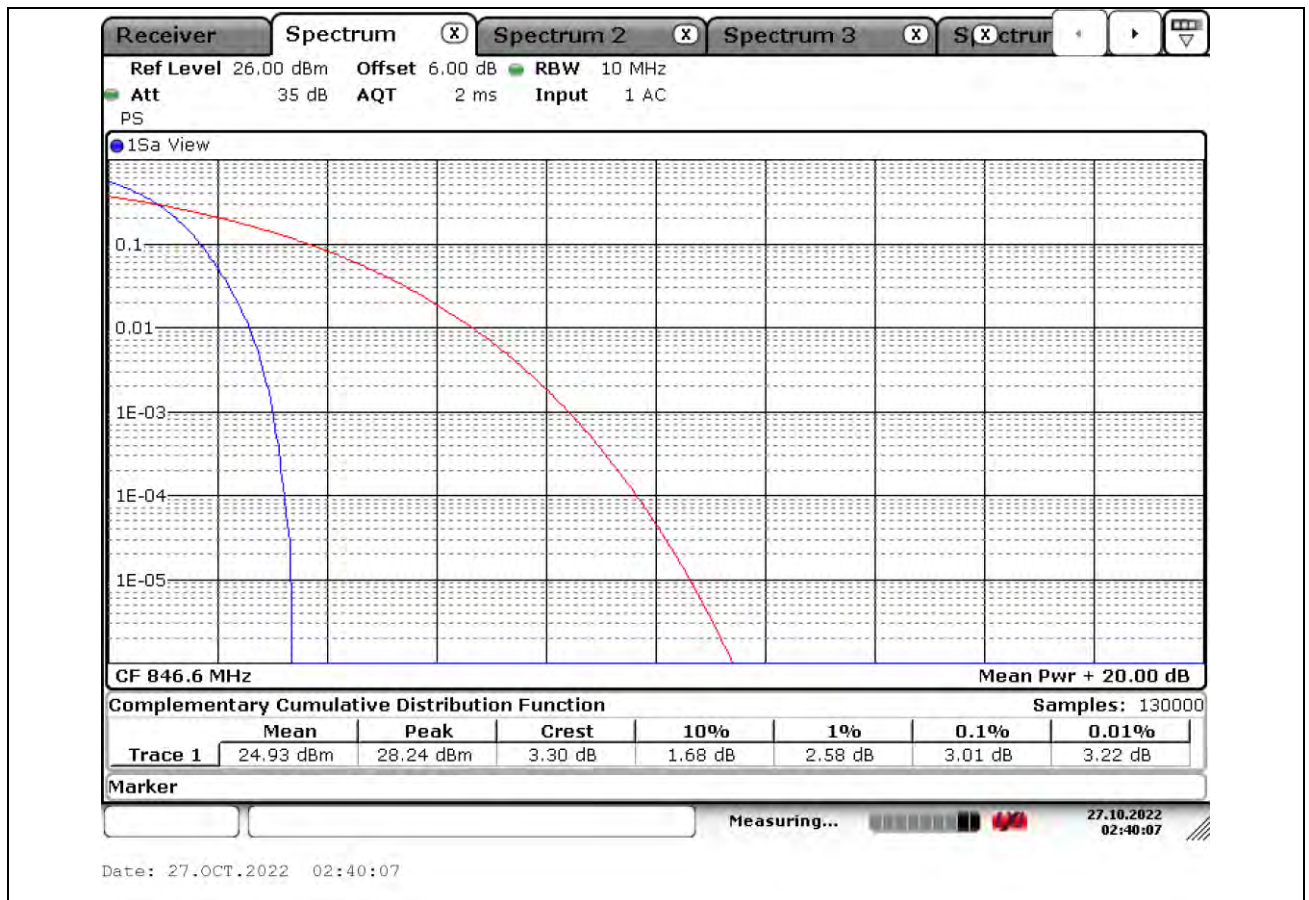
Test Report No.: W7L-P22090023RF03





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VERITAS

Test Report No.: W7L-P22090023RF03



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

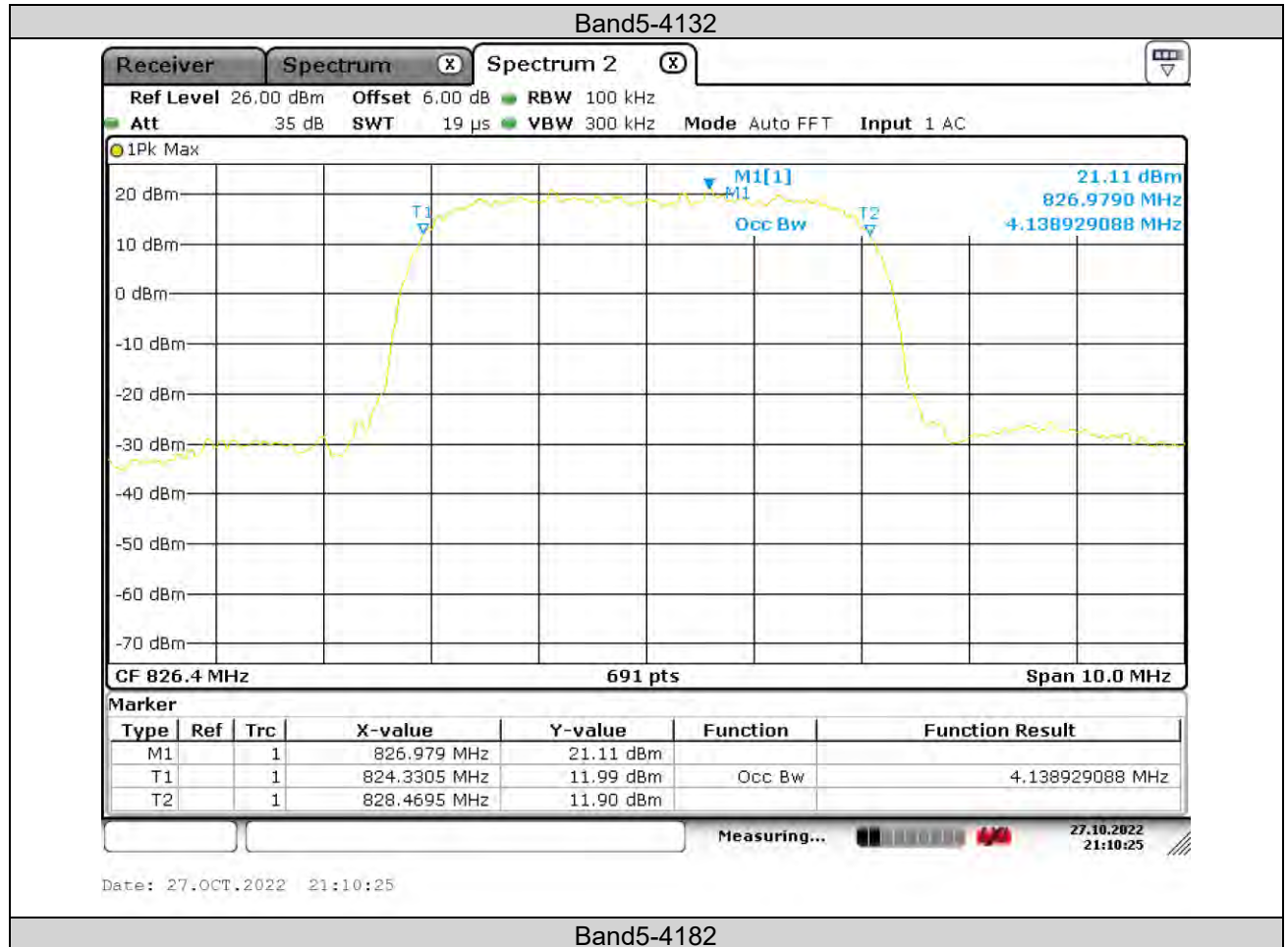
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.139	4.689	---	PASS
Band5	4182	4.139	4.674	---	PASS
Band5	4233	4.139	4.689	---	PASS



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03

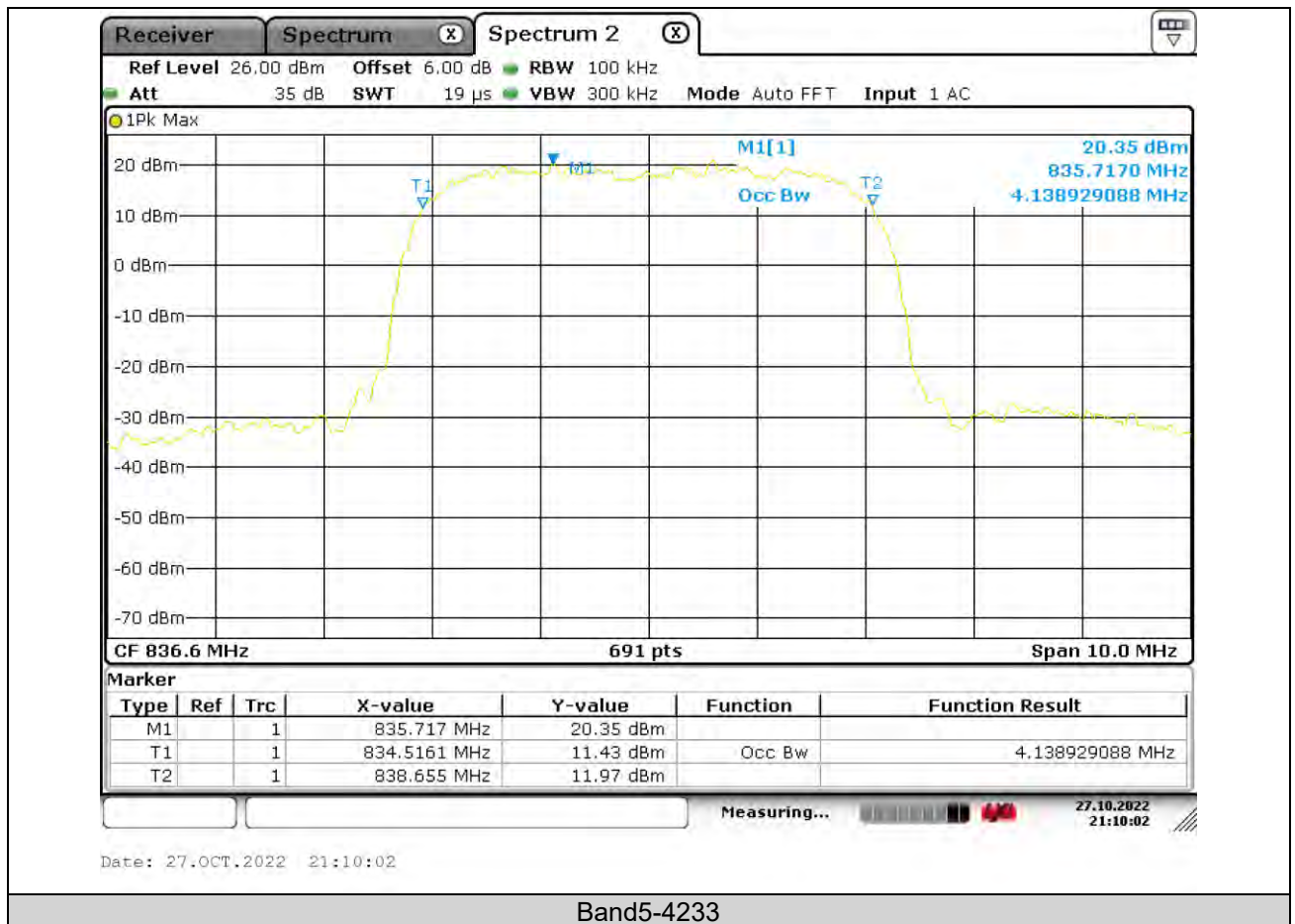
Test Graphs





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VERITAS

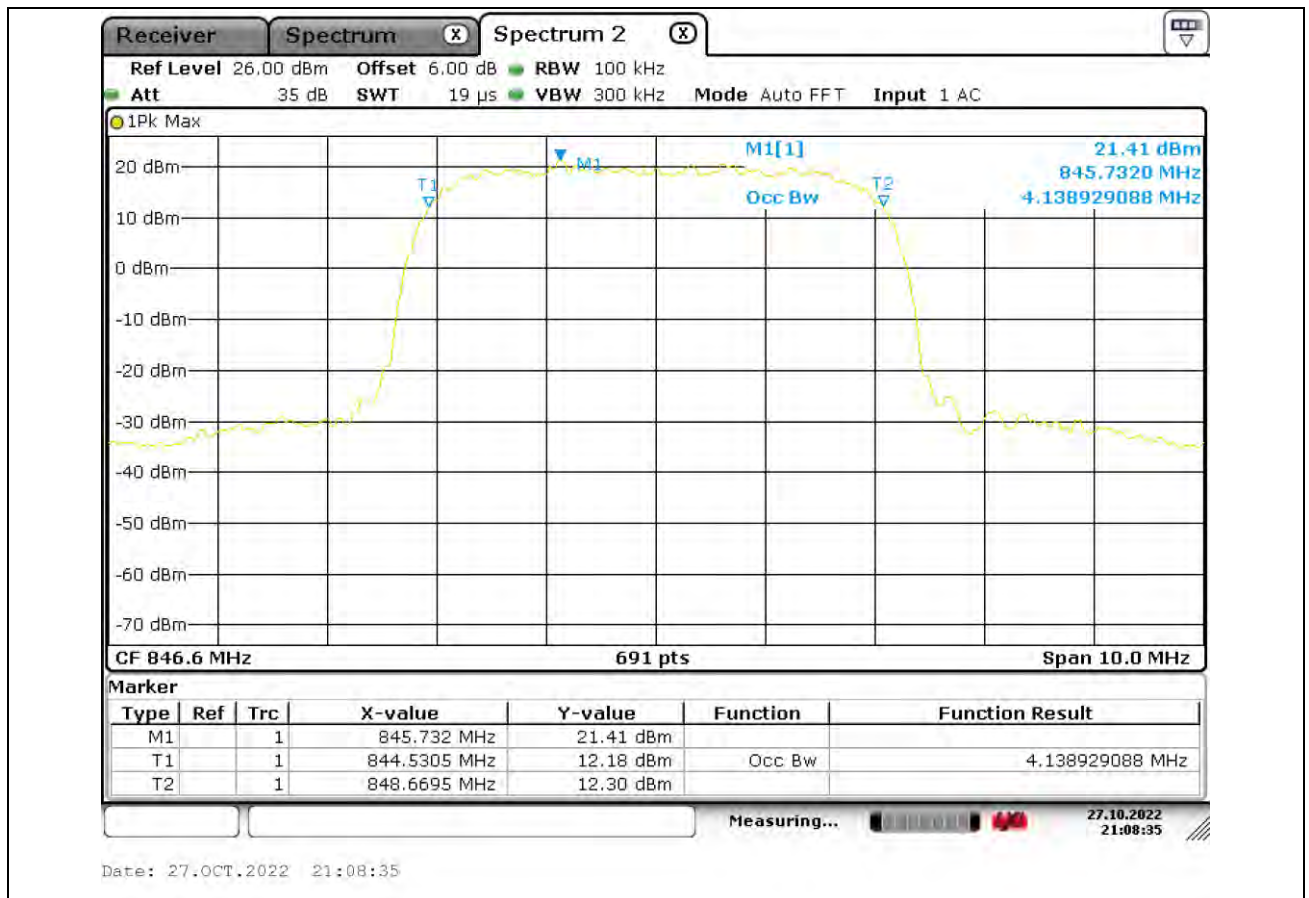
Test Report No.: W7L-P22090023RF03





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VERITAS

Test Report No.: W7L-P22090023RF03

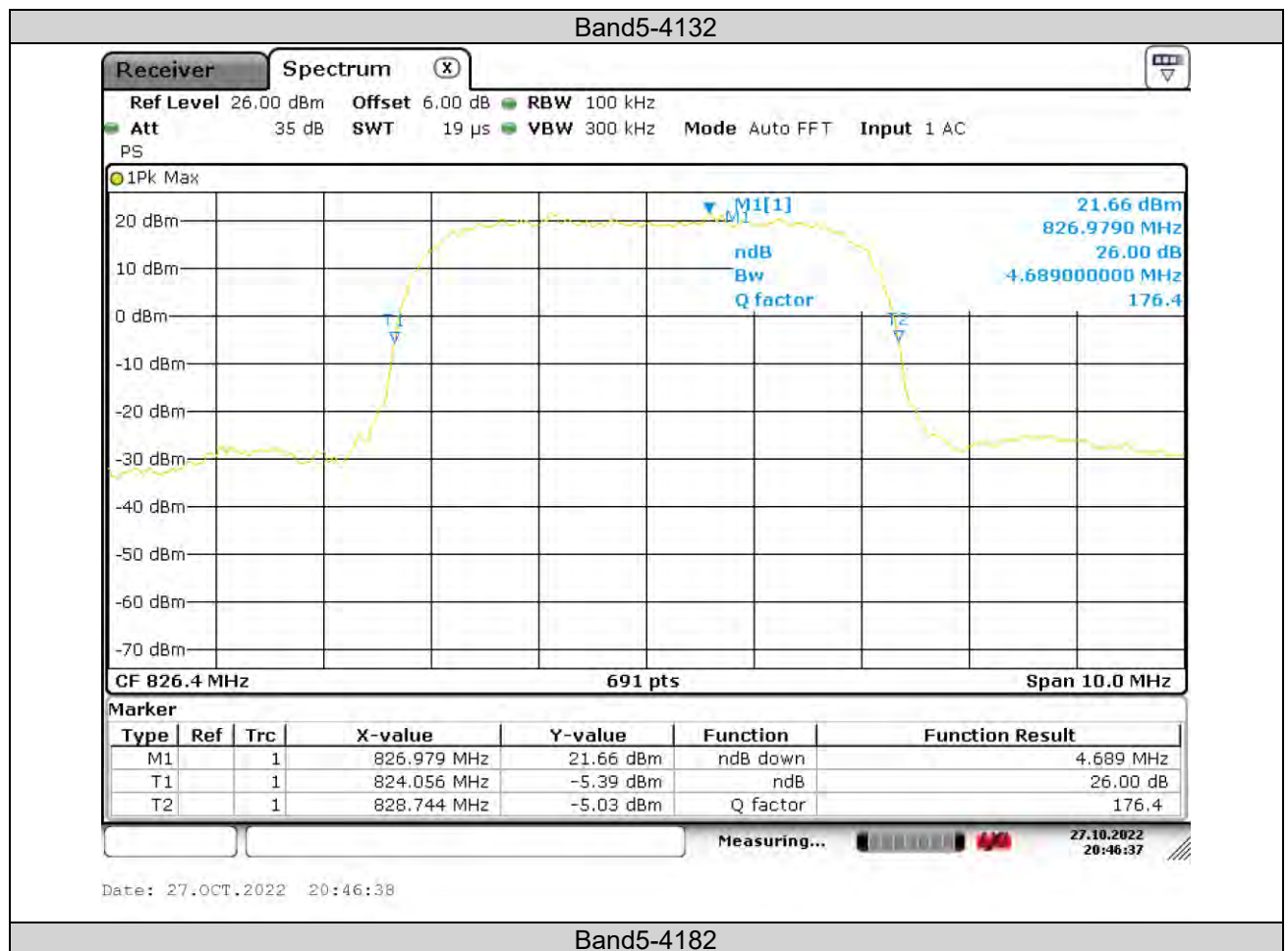




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VERITAS

Test Report No.: W7L-P22090023RF03

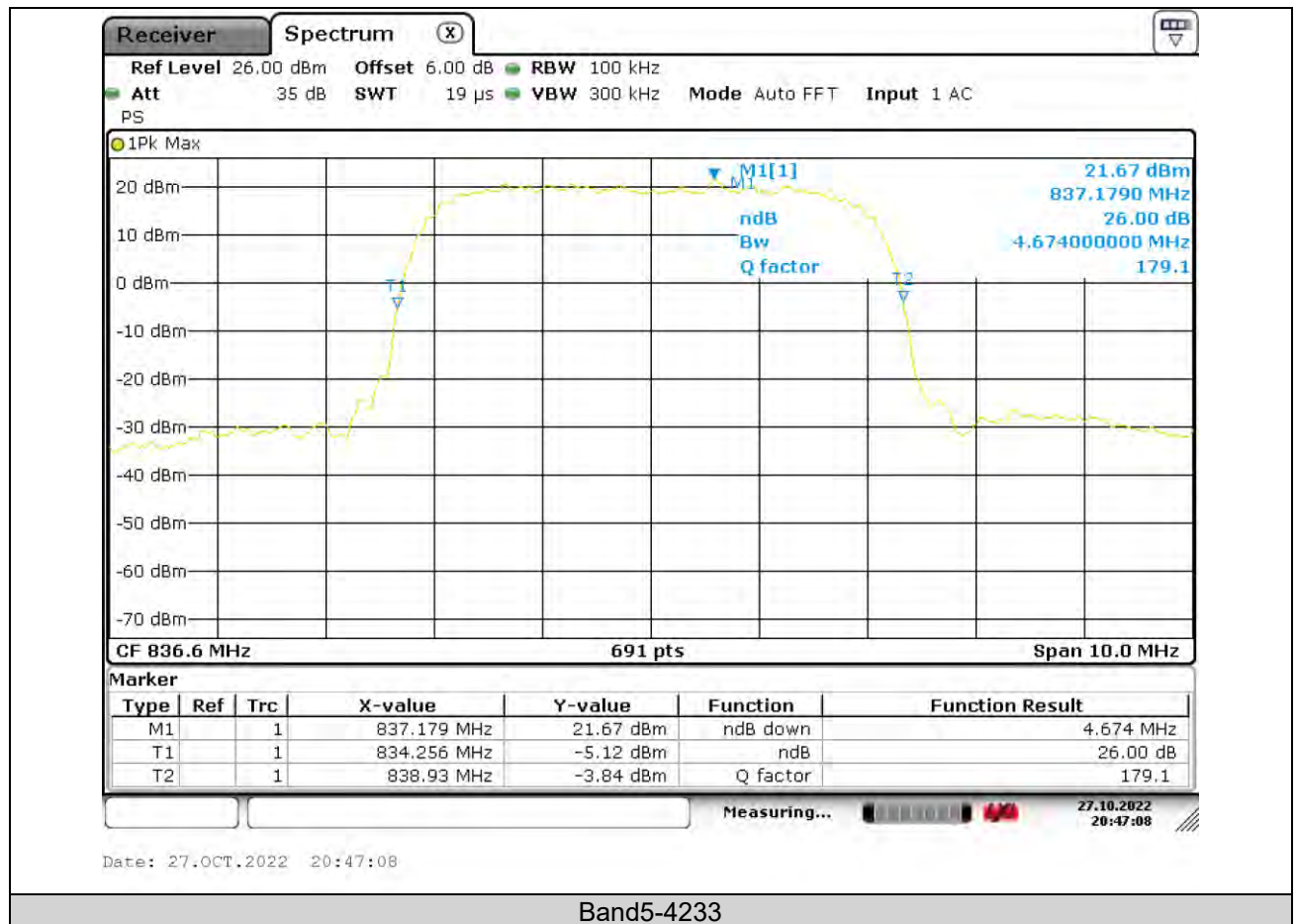
26dB Bandwidth





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VERITAS

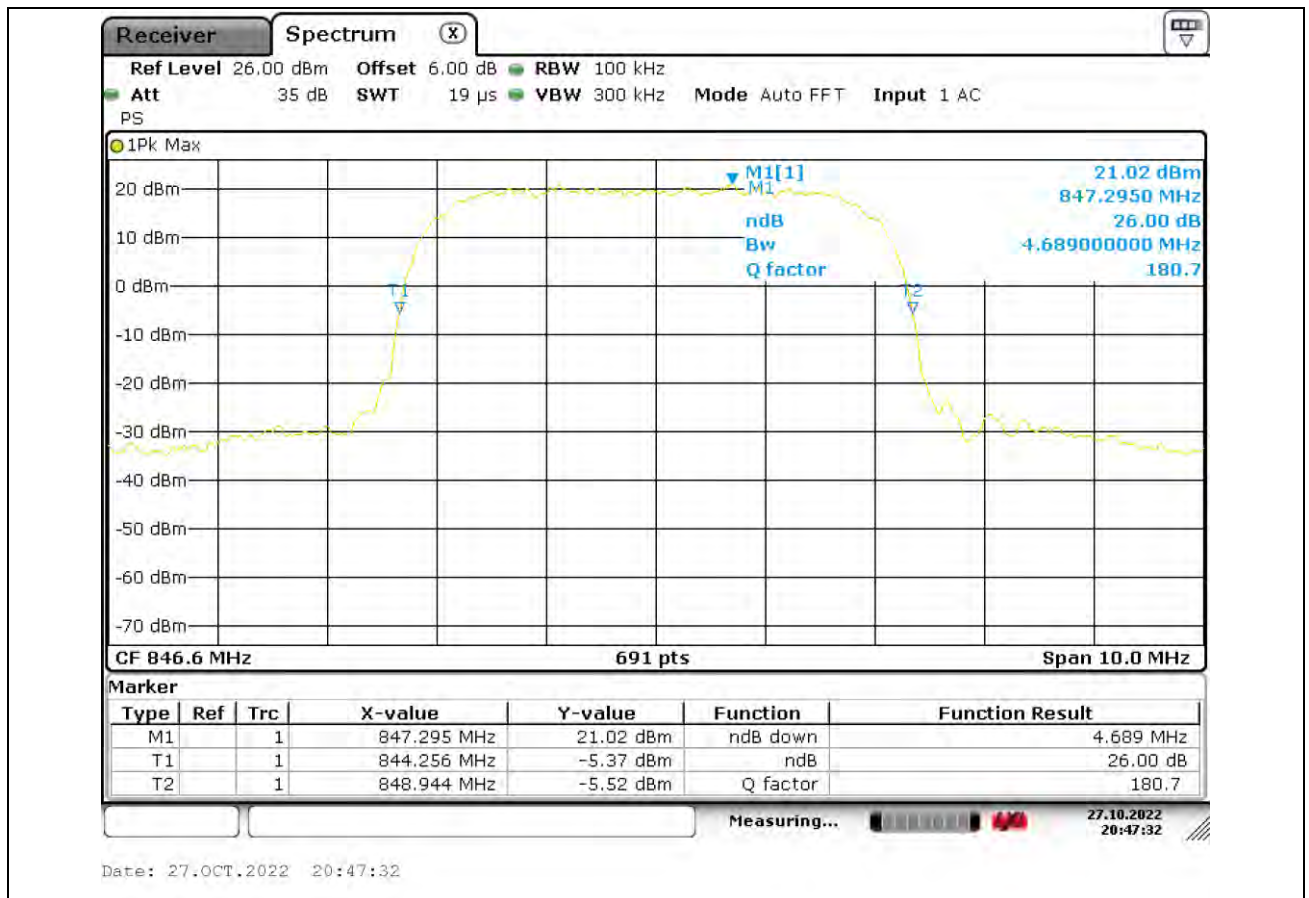
Test Report No.: W7L-P22090023RF03





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VERITAS

Test Report No.: W7L-P22090023RF03





Test Report No.: W7L-P22090023RF03

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.93378	-31.65	-13	PASS
Band5	4233	849.07021	-33.67	-13	PASS



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VERITAS

Test Report No.: W7L-P22090023RF03

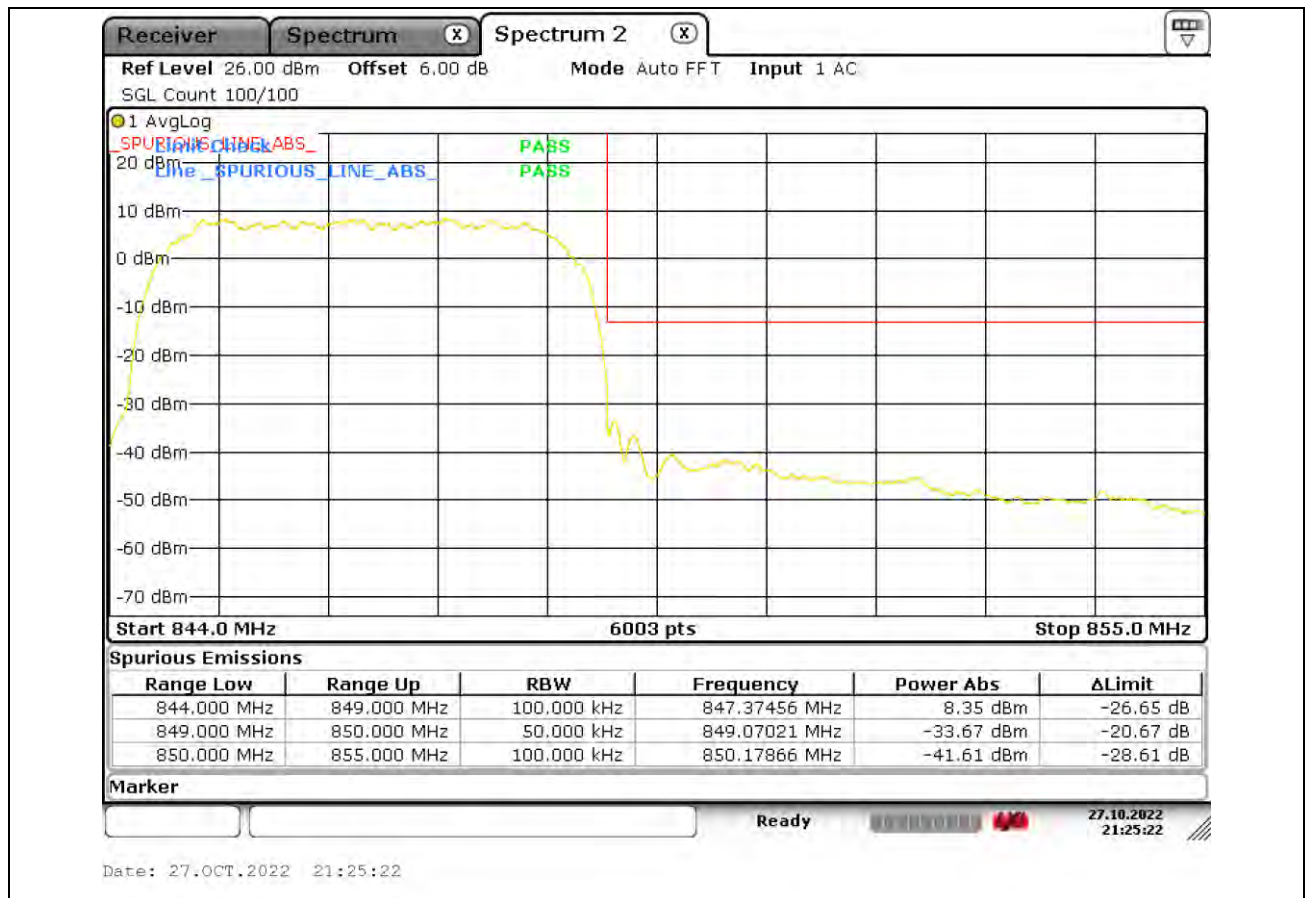
Test Graphs





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF03



CONDUCTED SPURIOUS EMISSION

Test Result

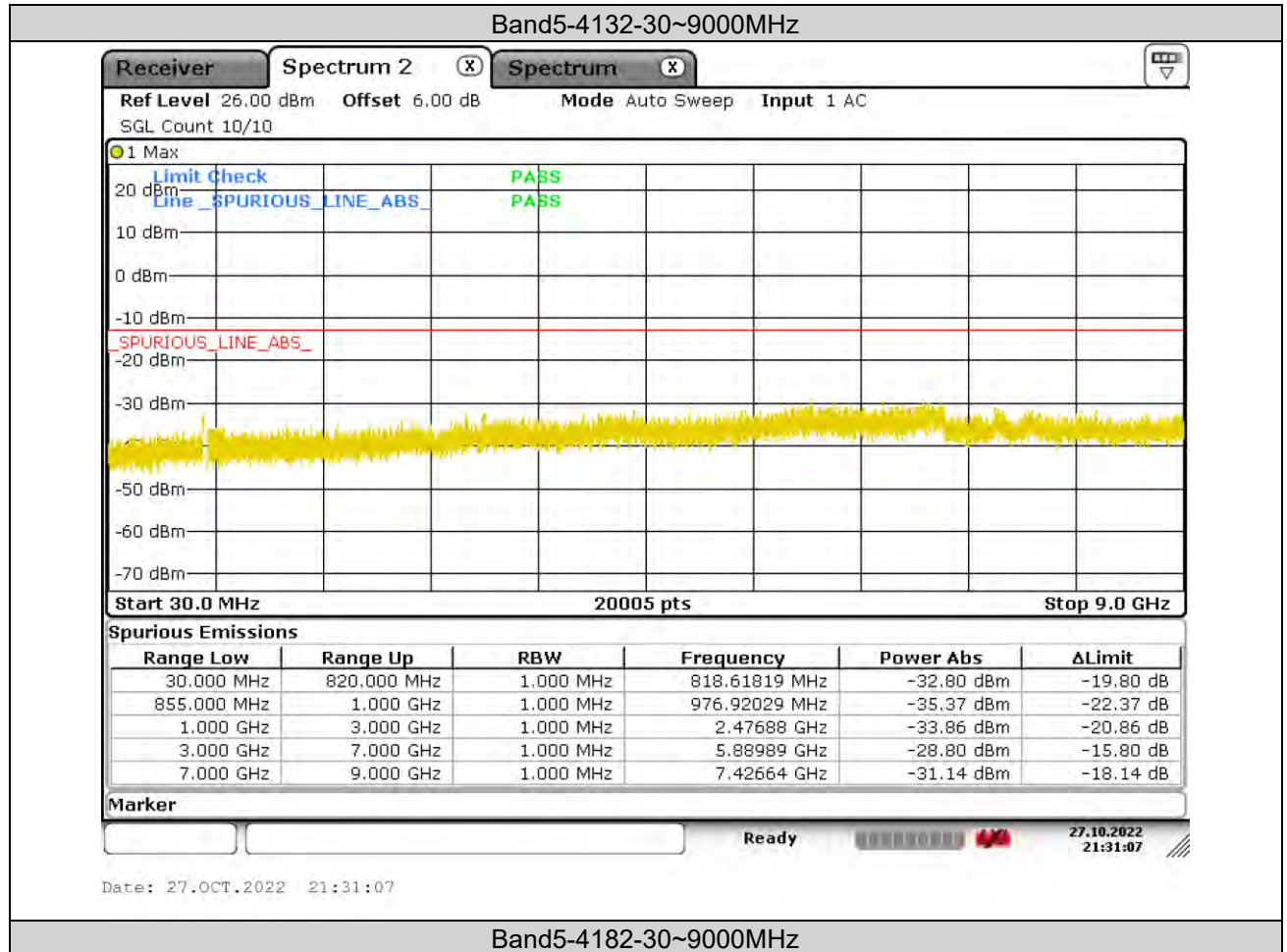
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	818.61819	-32.8	-13	PASS
Band5	4132	1000~9000MHz	5889.89	-28.8	-13	PASS
Band5	4182	30~1000MHz	953.58696	-32.46	-13	PASS
Band5	4182	1000~9000MHz	6840.27	-28.7	-13	PASS
Band5	4233	30~1000MHz	856.63043	-33.51	-13	PASS
Band5	4233	1000~9000MHz	6015.37	-28.53	-13	PASS



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VERITAS

Test Report No.: W7L-P22090023RF03

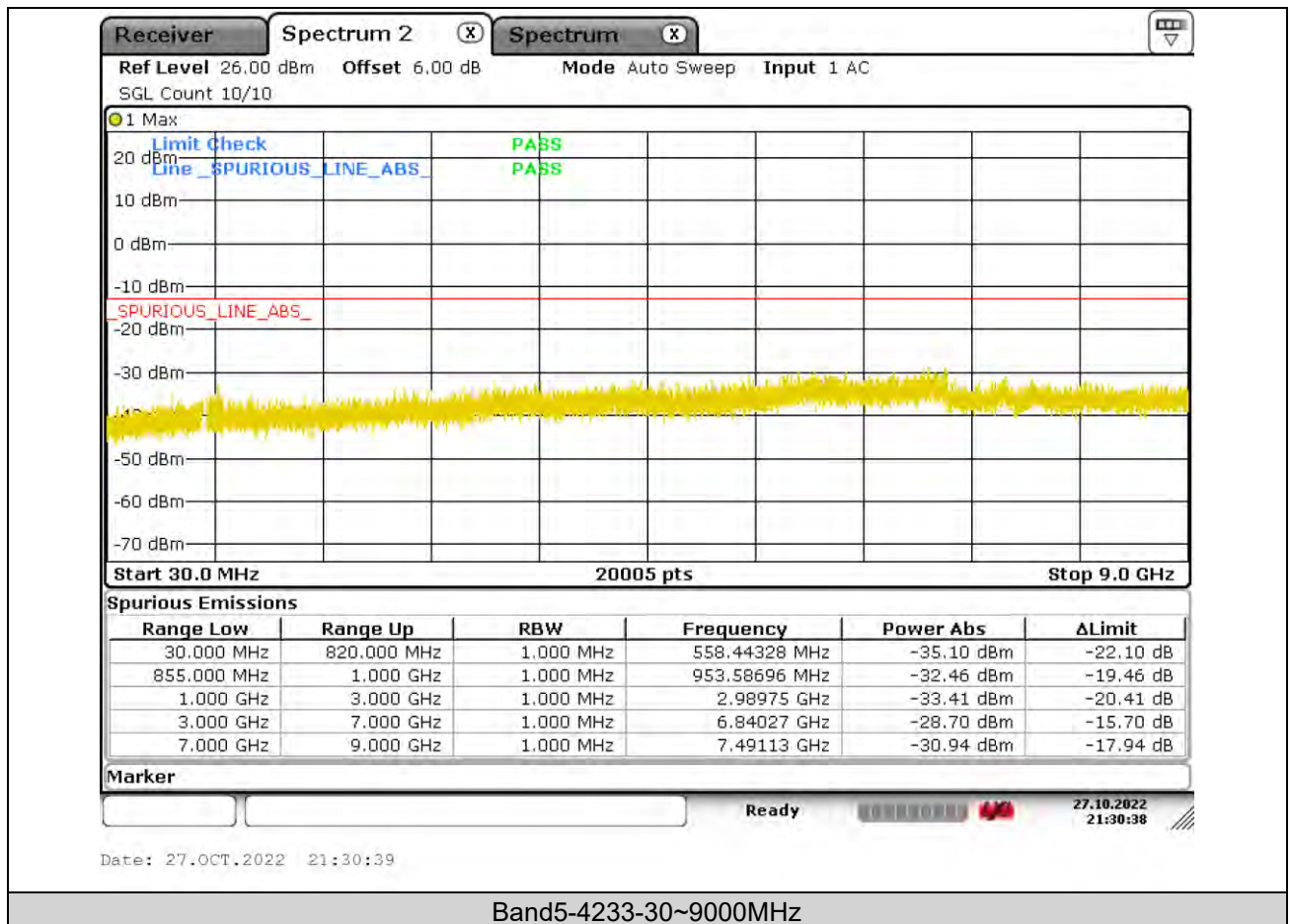
Test Graphs





BUREAU
VERITAS

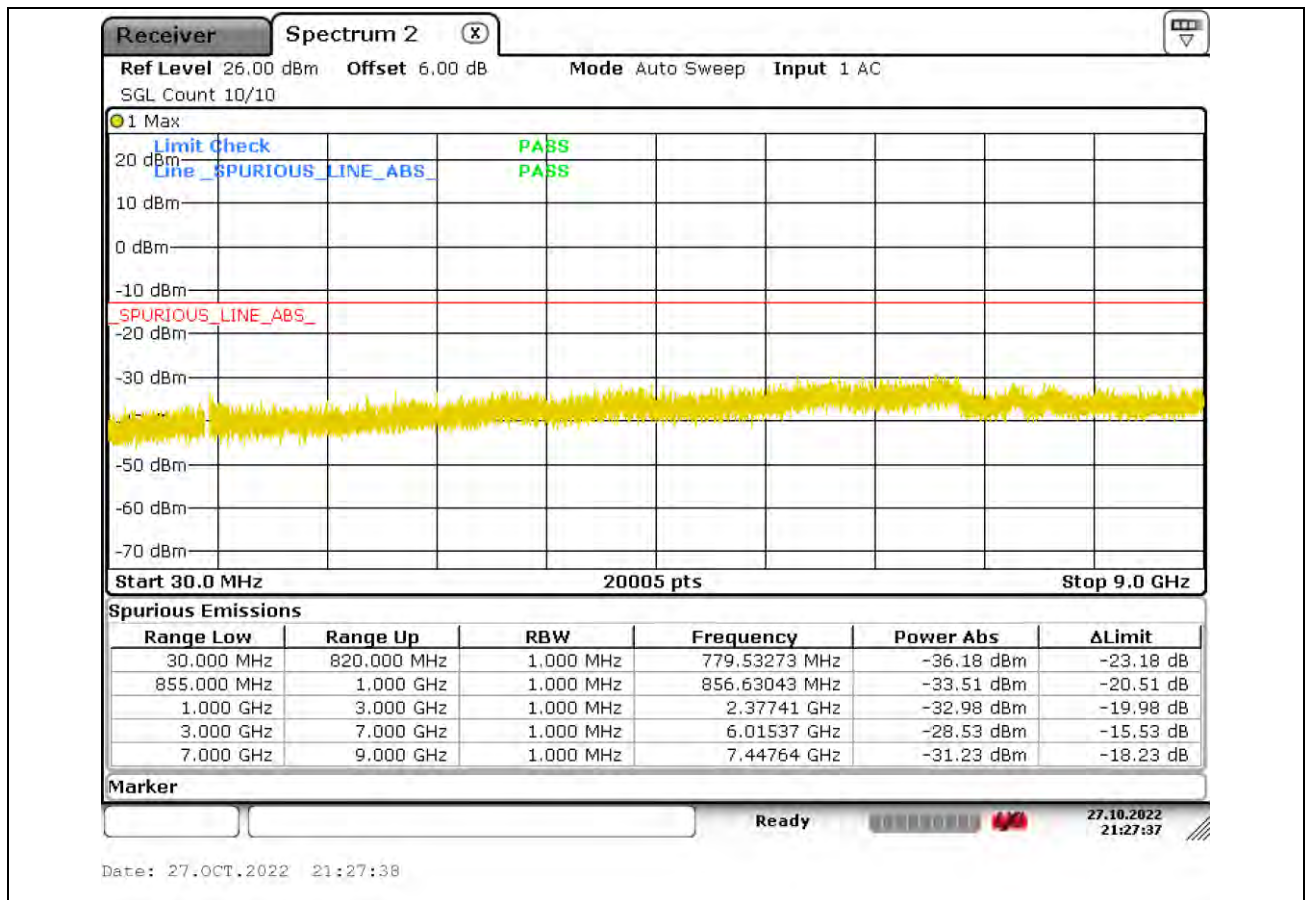
Test Report No.: W7L-P22090023RF03





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VERITAS

Test Report No.: W7L-P22090023RF03



FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-5.29	-0.006401	±2.5	PASS
Band5	4132	VN	NT	-1.88	-0.002275	±2.5	PASS
Band5	4132	VH	NT	-5.76	-0.006970	±2.5	PASS
Band5	4182	VL	NT	5.85	0.006993	±2.5	PASS
Band5	4182	VN	NT	4.96	0.005929	±2.5	PASS
Band5	4182	VH	NT	3.93	0.004698	±2.5	PASS
Band5	4233	VL	NT	-1.65	-0.001949	±2.5	PASS
Band5	4233	VN	NT	3.09	0.003650	±2.5	PASS
Band5	4233	VH	NT	-4.68	-0.005528	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	826.4	NV	-30	5.05	0.006111	±2.5	PASS
Band5	826.4	NV	-20	9.38	0.011350	±2.5	PASS
Band5	826.4	NV	0	2.22	0.002686	±2.5	PASS
Band5	826.4	NV	10	-0.03	-0.000036	±2.5	PASS
Band5	826.4	NV	20	0.84	0.001016	±2.5	PASS
Band5	826.4	NV	30	9.79	0.011847	±2.5	PASS
Band5	826.4	NV	40	1.98	0.002396	±2.5	PASS
Band5	826.4	NV	50	2.04	0.002469	±2.5	PASS
Band5	836.6	NV	-30	-9.93	-0.011869	±2.5	PASS
Band5	836.6	NV	-20	4.13	0.004937	±2.5	PASS
Band5	836.6	NV	0	7.48	0.008941	±2.5	PASS
Band5	836.6	NV	10	3.26	0.003897	±2.5	PASS
Band5	836.6	NV	20	-5.57	-0.006658	±2.5	PASS
Band5	836.6	NV	30	-6.92	-0.008272	±2.5	PASS
Band5	836.6	NV	40	-9.7	-0.011595	±2.5	PASS
Band5	836.6	NV	50	7.86	0.009395	±2.5	PASS
Band5	846.6	NV	-30	-9.74	-0.011505	±2.5	PASS
Band5	846.6	NV	-20	4.83	0.005705	±2.5	PASS
Band5	846.6	NV	0	1.91	0.002256	±2.5	PASS
Band5	846.6	NV	10	7.42	0.008764	±2.5	PASS
Band5	846.6	NV	20	0.65	0.000768	±2.5	PASS
Band5	846.6	NV	30	2.79	0.003296	±2.5	PASS
Band5	846.6	NV	40	-1.33	-0.001571	±2.5	PASS
Band5	846.6	NV	50	-9.89	-0.011682	±2.5	PASS

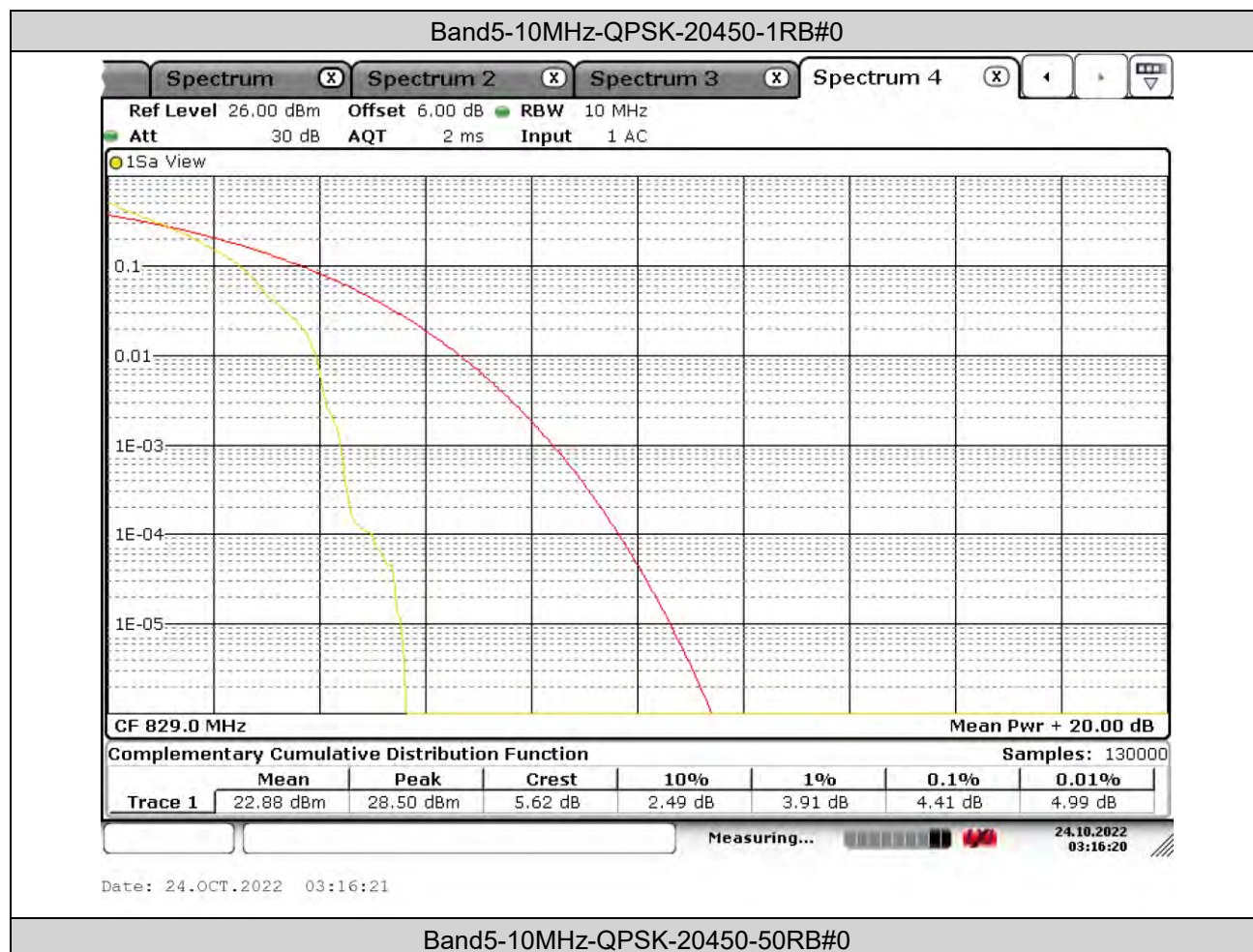
LTE BAND5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	4.41	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.61	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.61	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.99	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.06	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.96	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.96	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.97	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.94	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.86	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.16	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.03	13	PASS

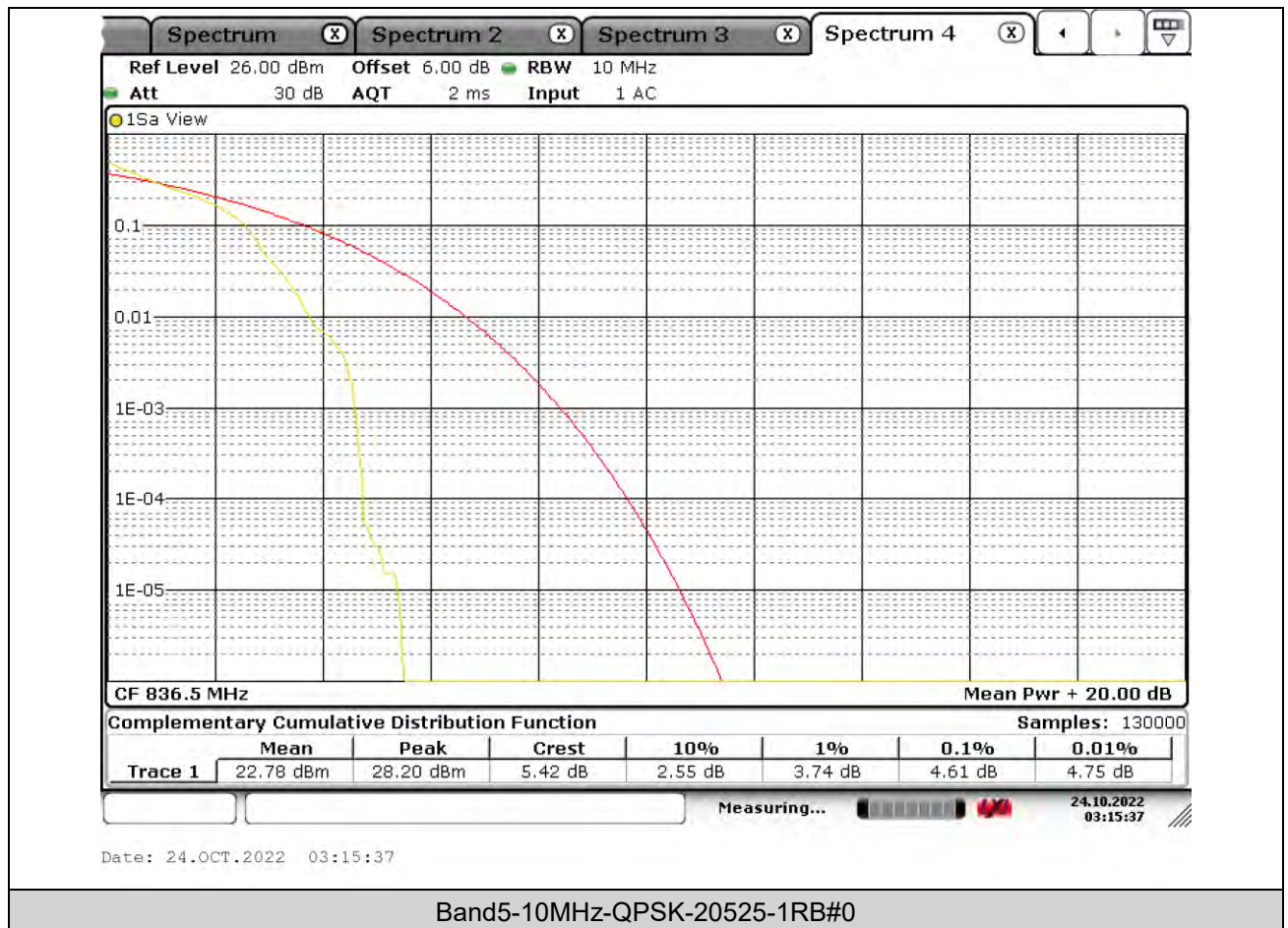
Test Graphs





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VERITAS

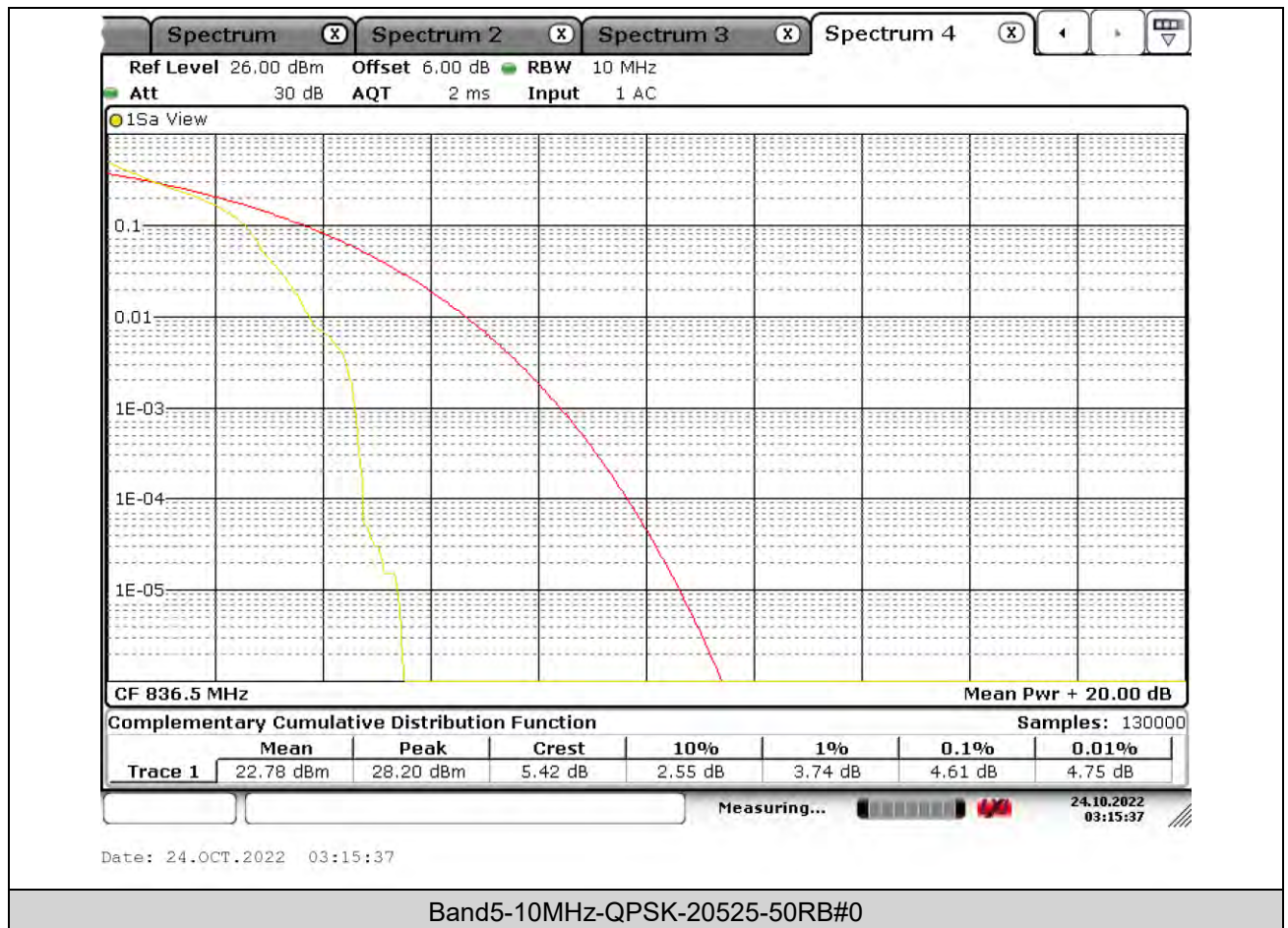
Test Report No.: W7L-P22090023RF03





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VERITAS

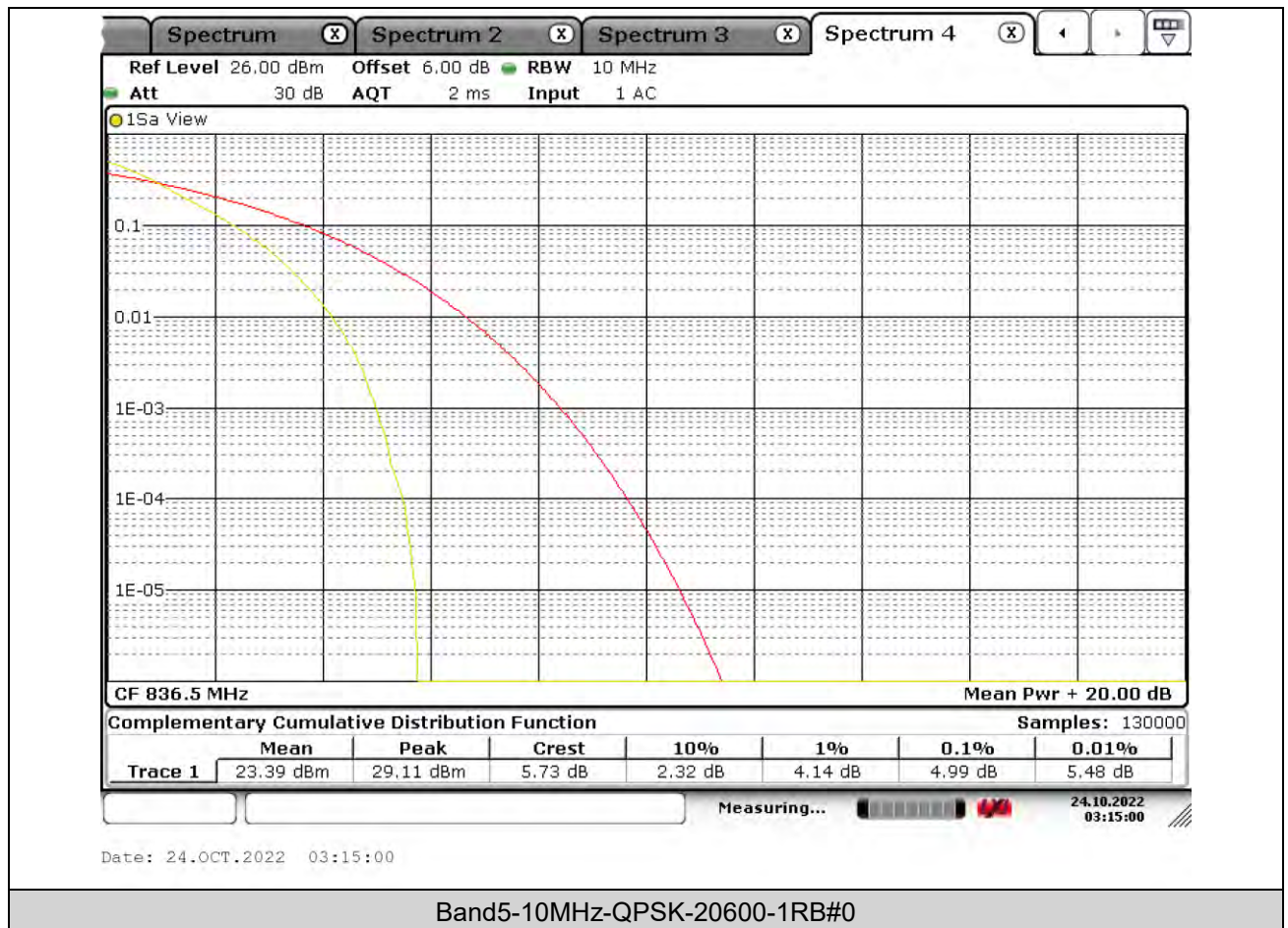
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VERITAS

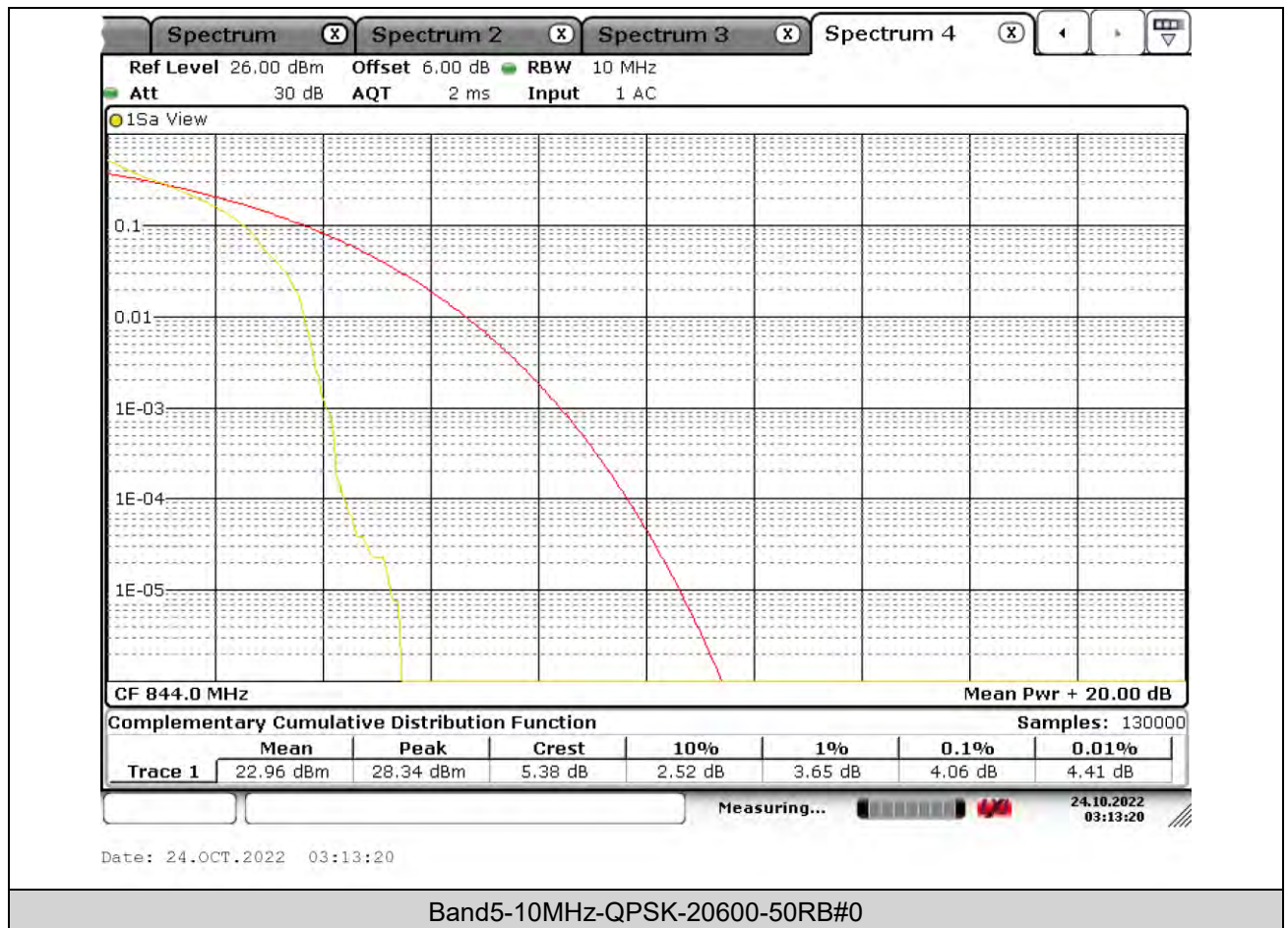
Test Report No.: W7L-P22090023RF03





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VERITAS

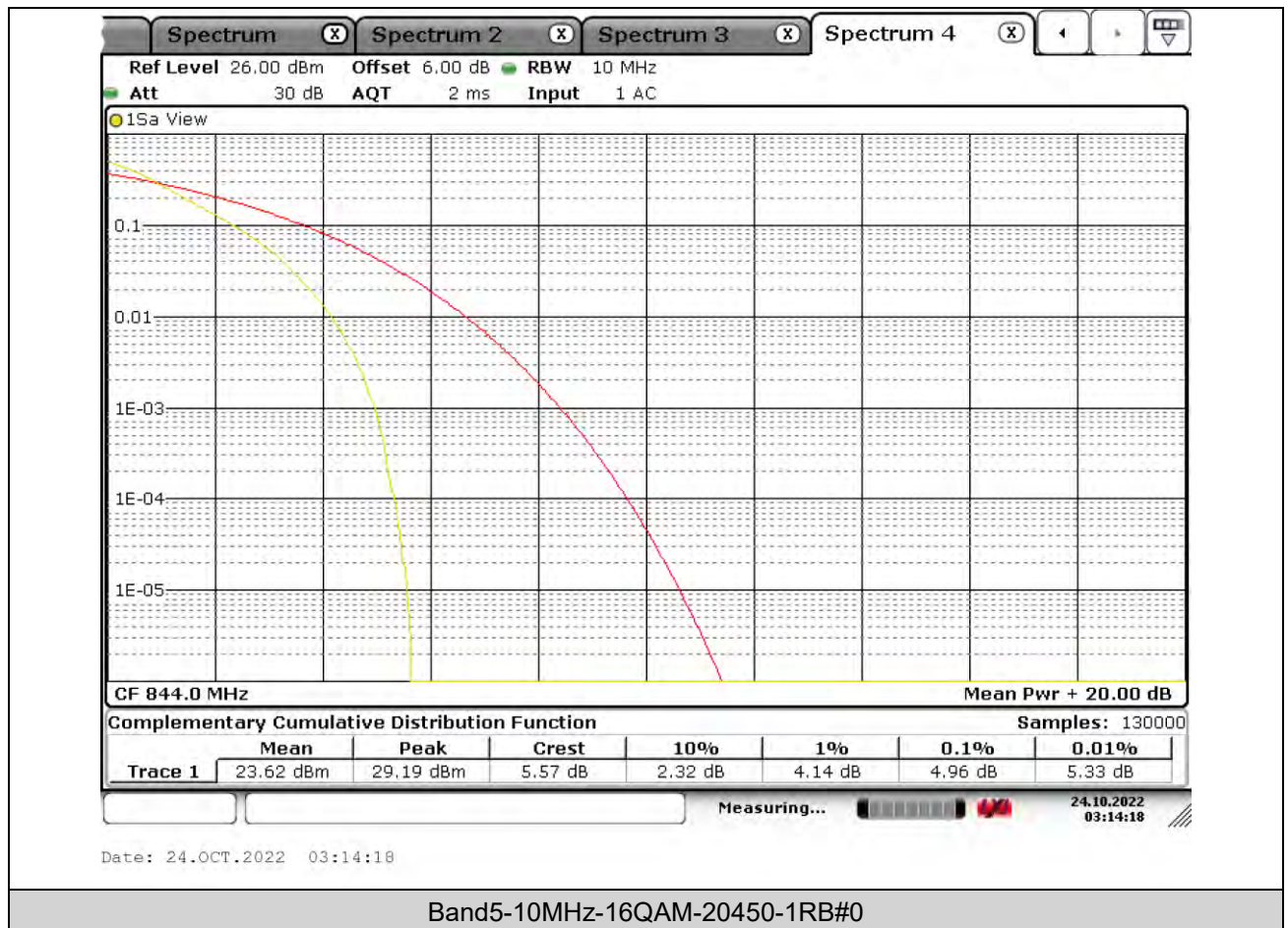
Test Report No.: W7L-P22090023RF03





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VERITAS

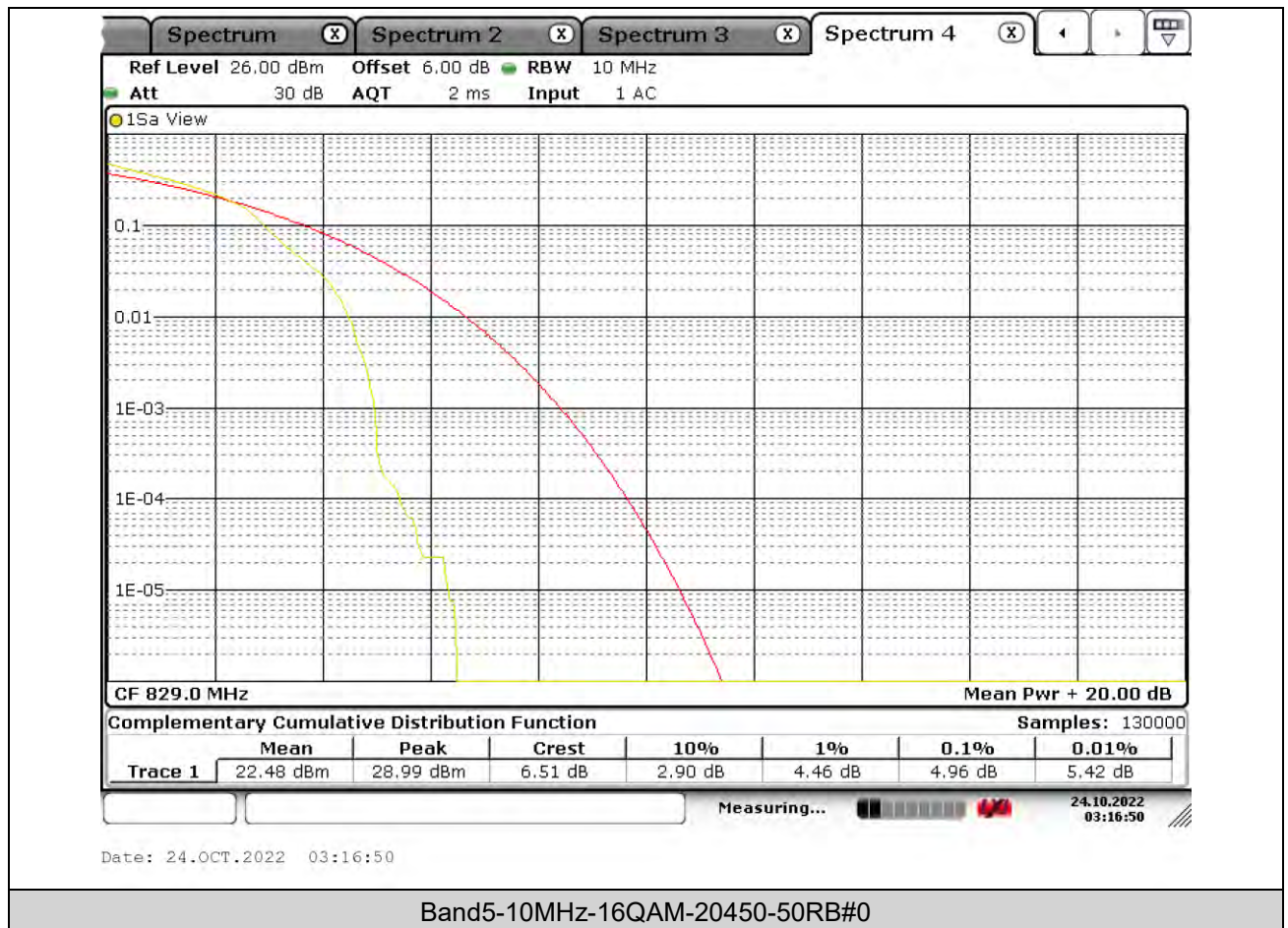
Test Report No.: W7L-P22090023RF03





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VERITAS

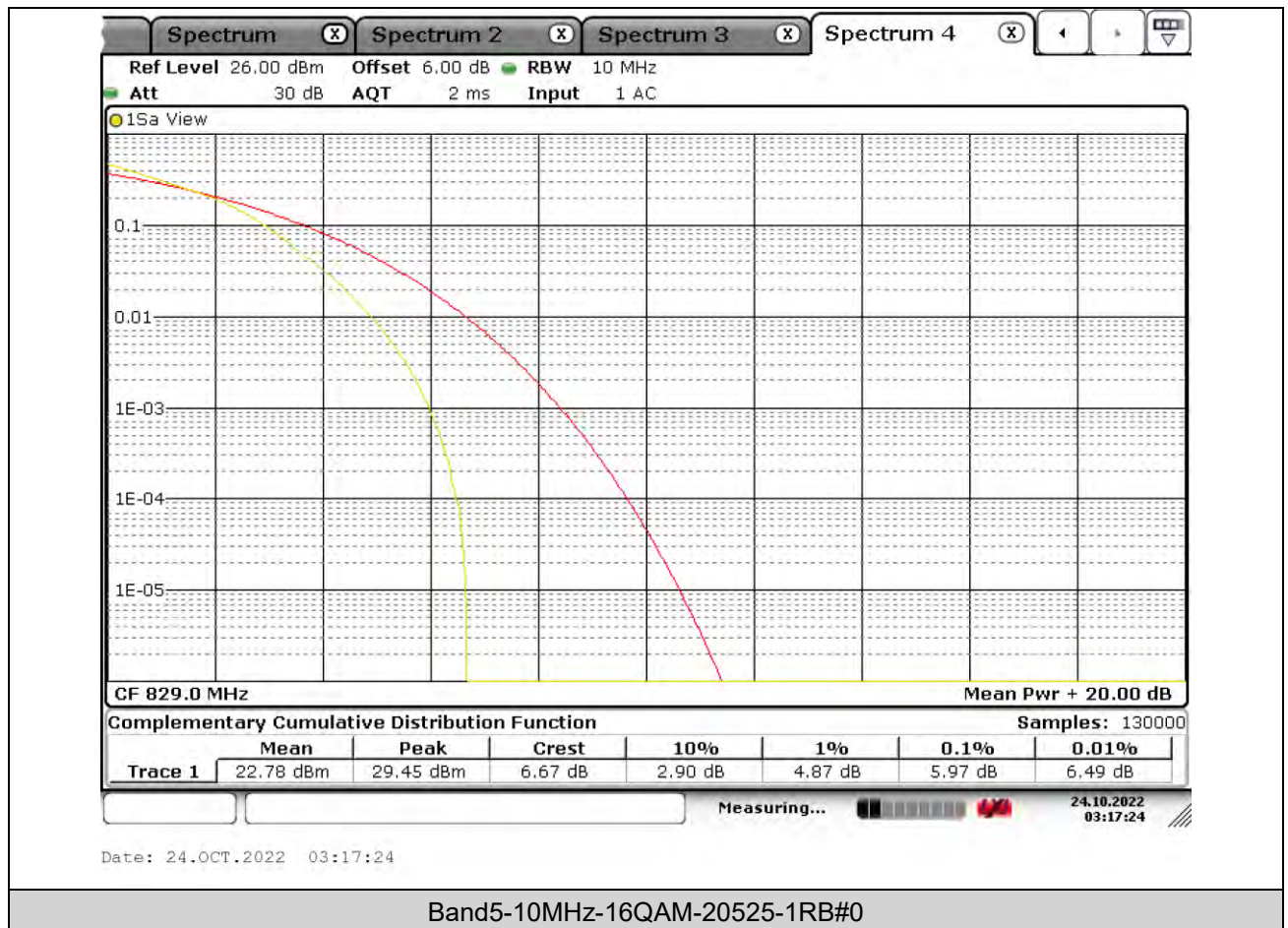
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VERITAS

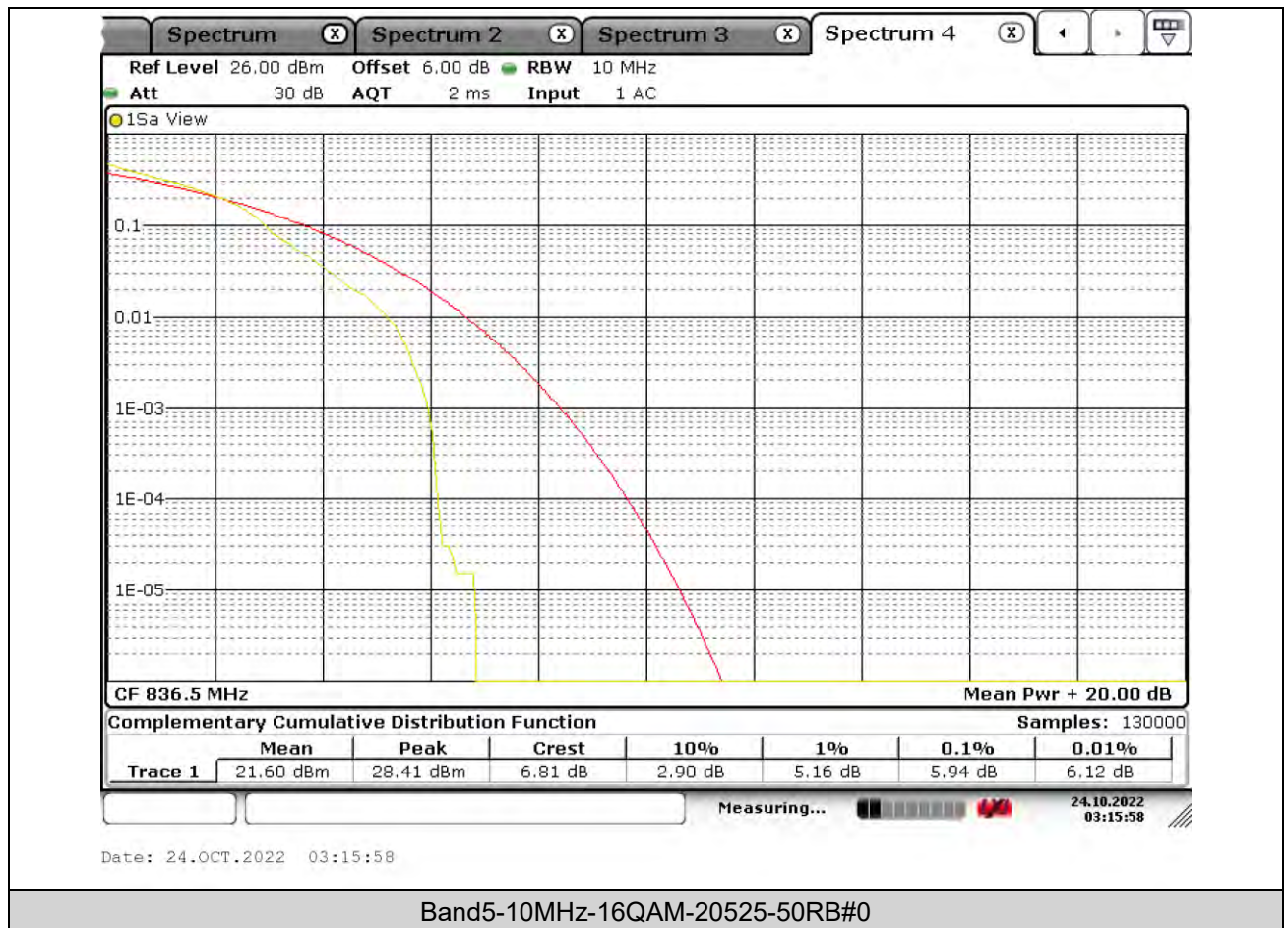
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VERITAS

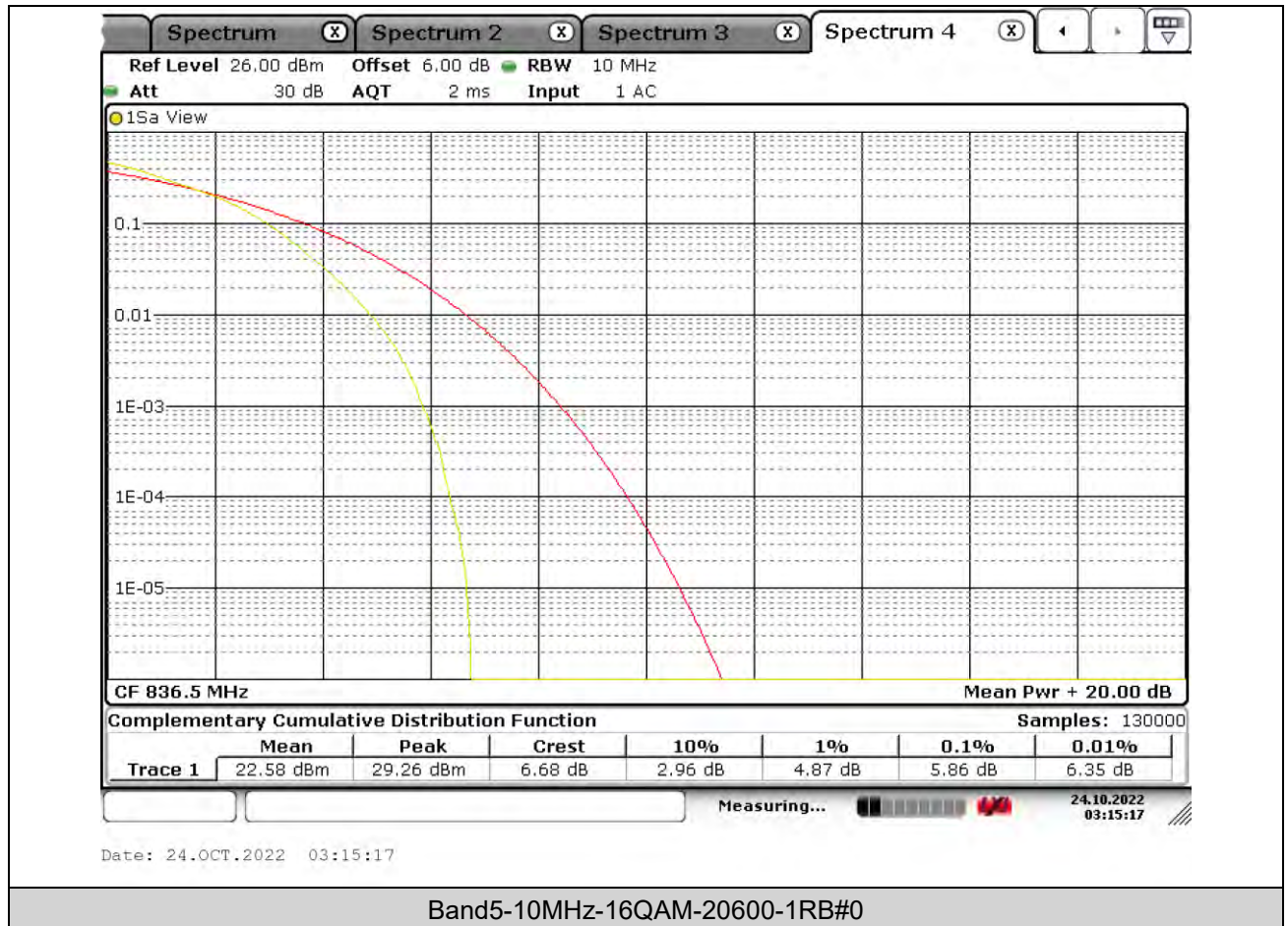
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VERITAS

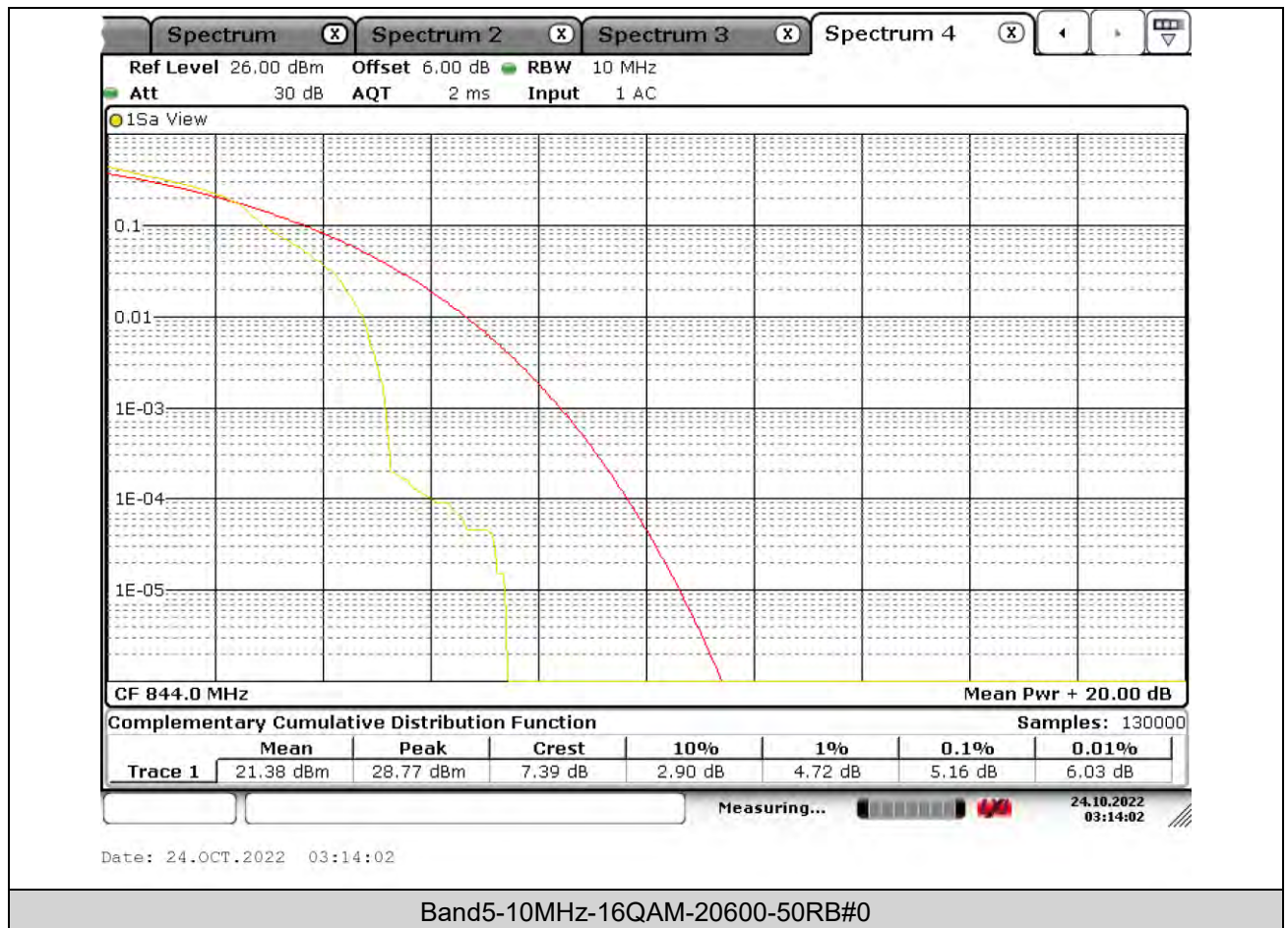
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VERITAS

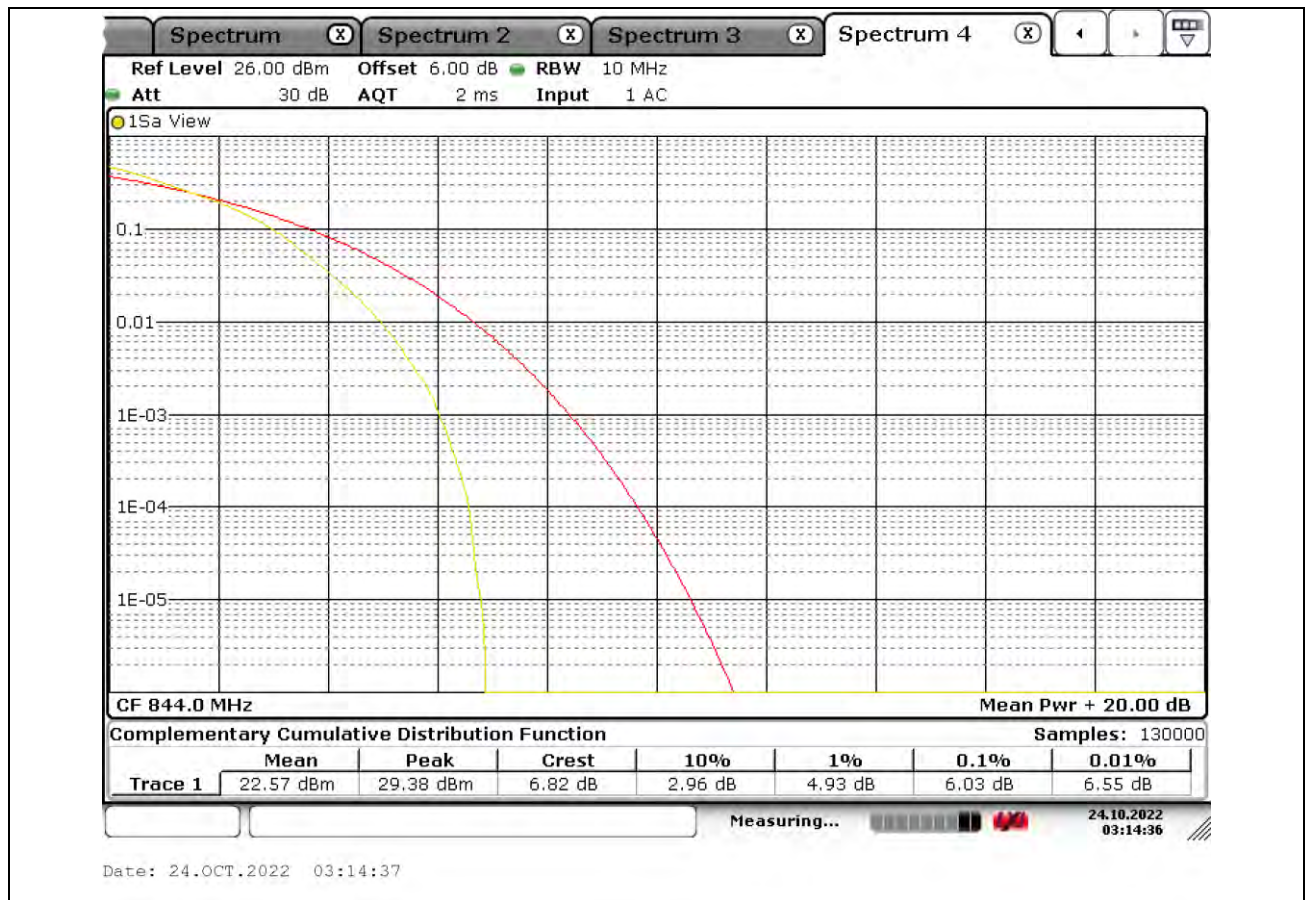
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Test Report No.: W7L-P22090023RF03

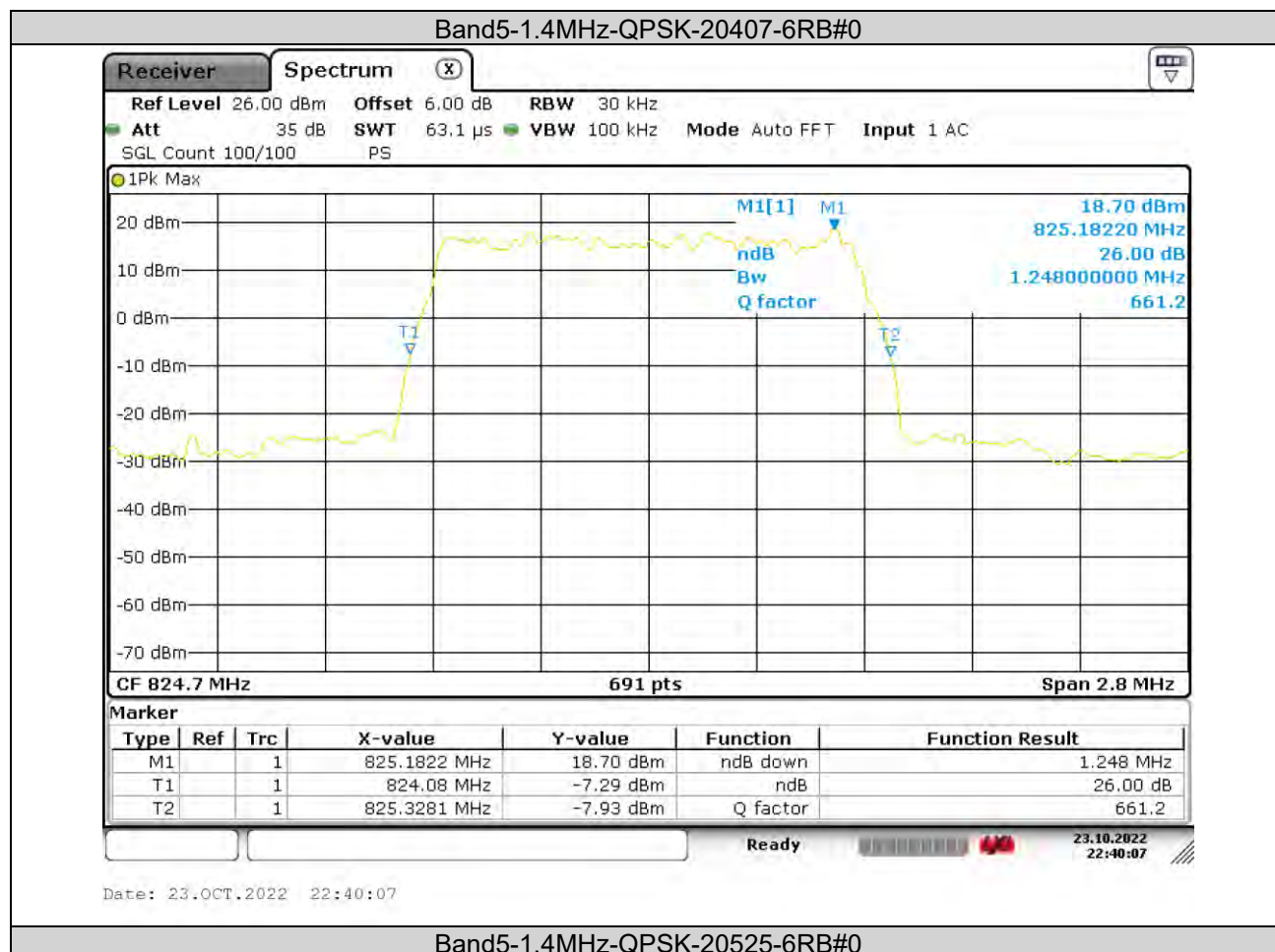


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.090	1.248	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.2399	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.248	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.090	1.248	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.244	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.090	1.244	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.753	3.0738	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.726	2.987	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.77	3.0564	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.735	3.0564	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.726	3.0304	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.726	3.1259	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.501	4.877	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.486	4.906	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.906	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.501	4.863	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.501	4.863	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.530	4.906	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.030	9.841	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.030	9.957	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.117	9.725	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.088	9.899	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.001	9.957	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.030	9.812	PASS

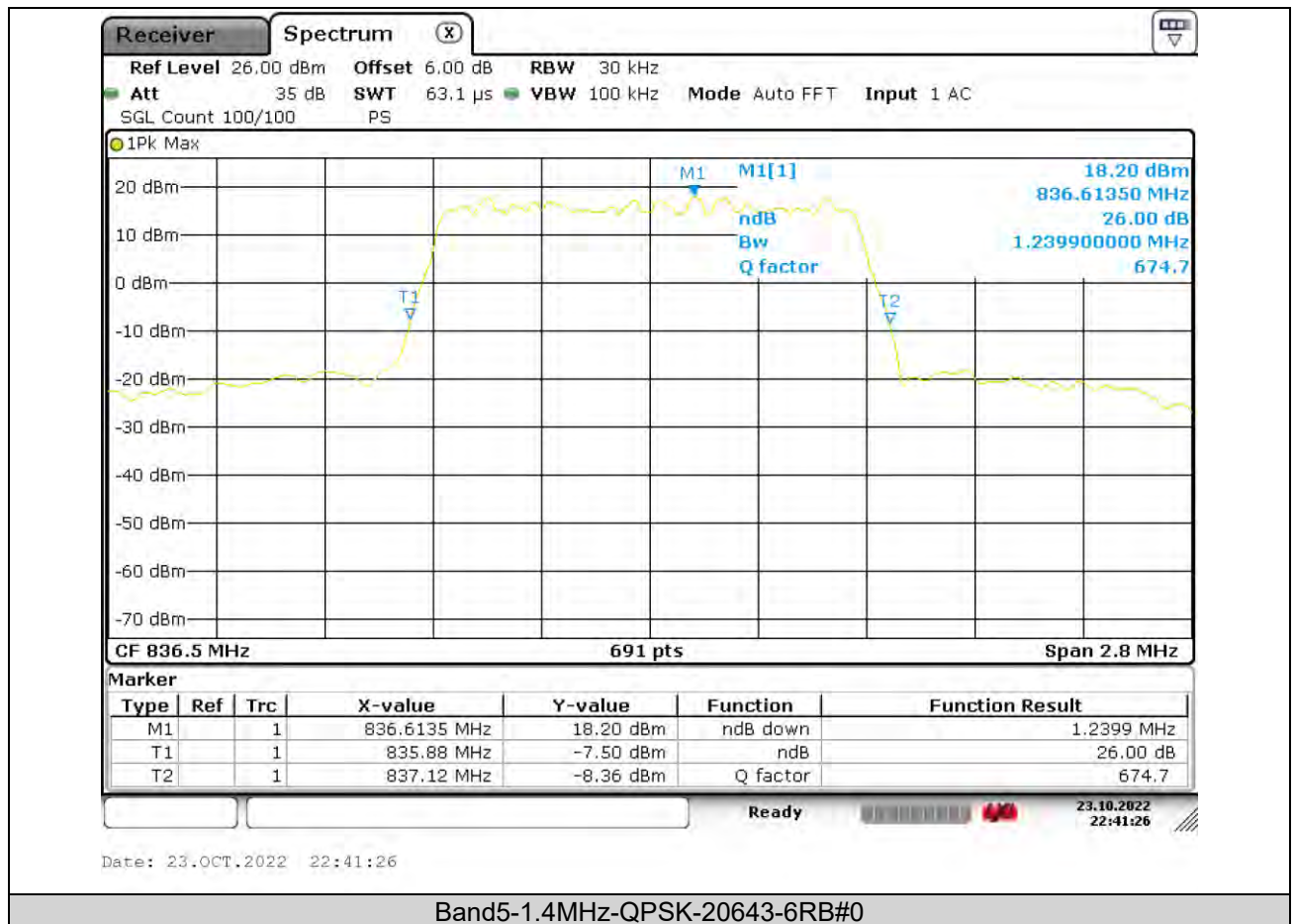
Test Graphs





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VERITAS

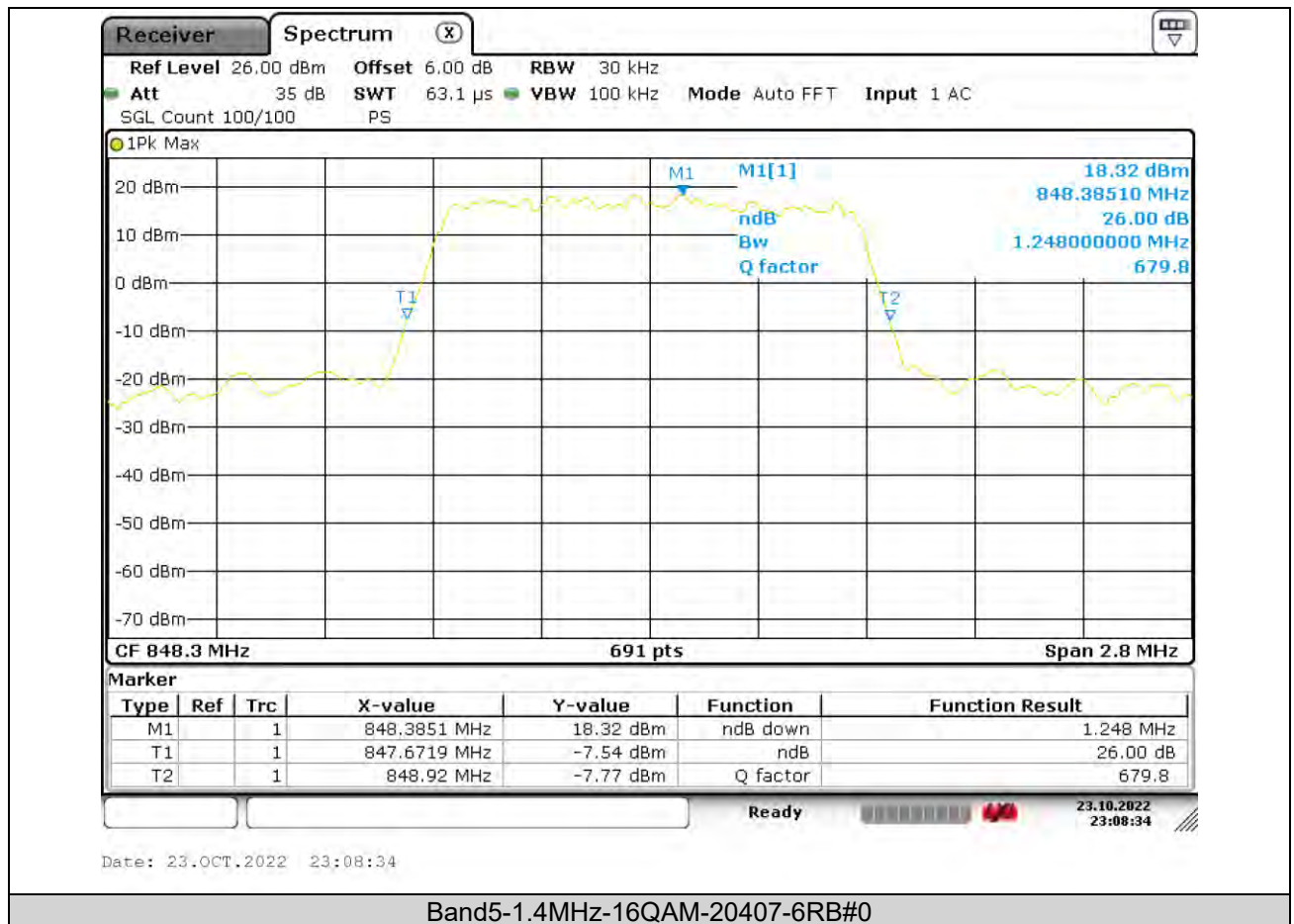
Test Report No.: W7L-P22090023RF03





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VERITAS

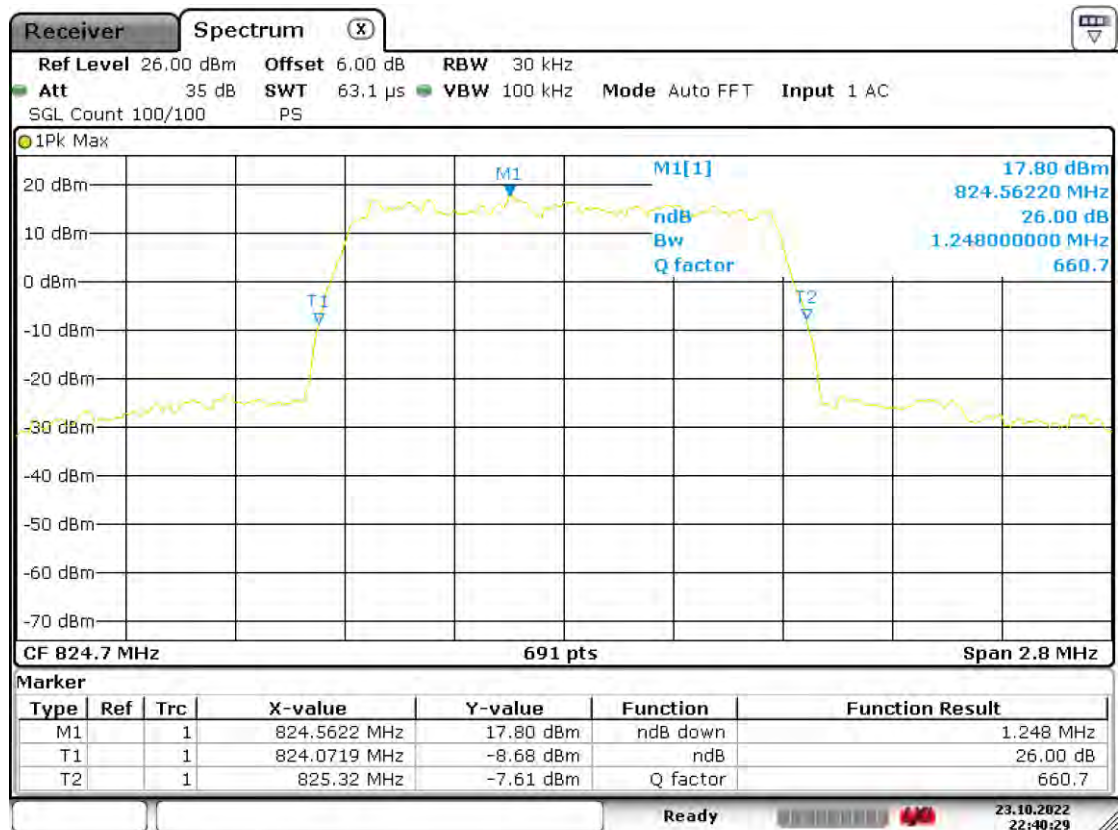
Test Report No.: W7L-P22090023RF03





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VERITAS

Test Report No.: W7L-P22090023RF03



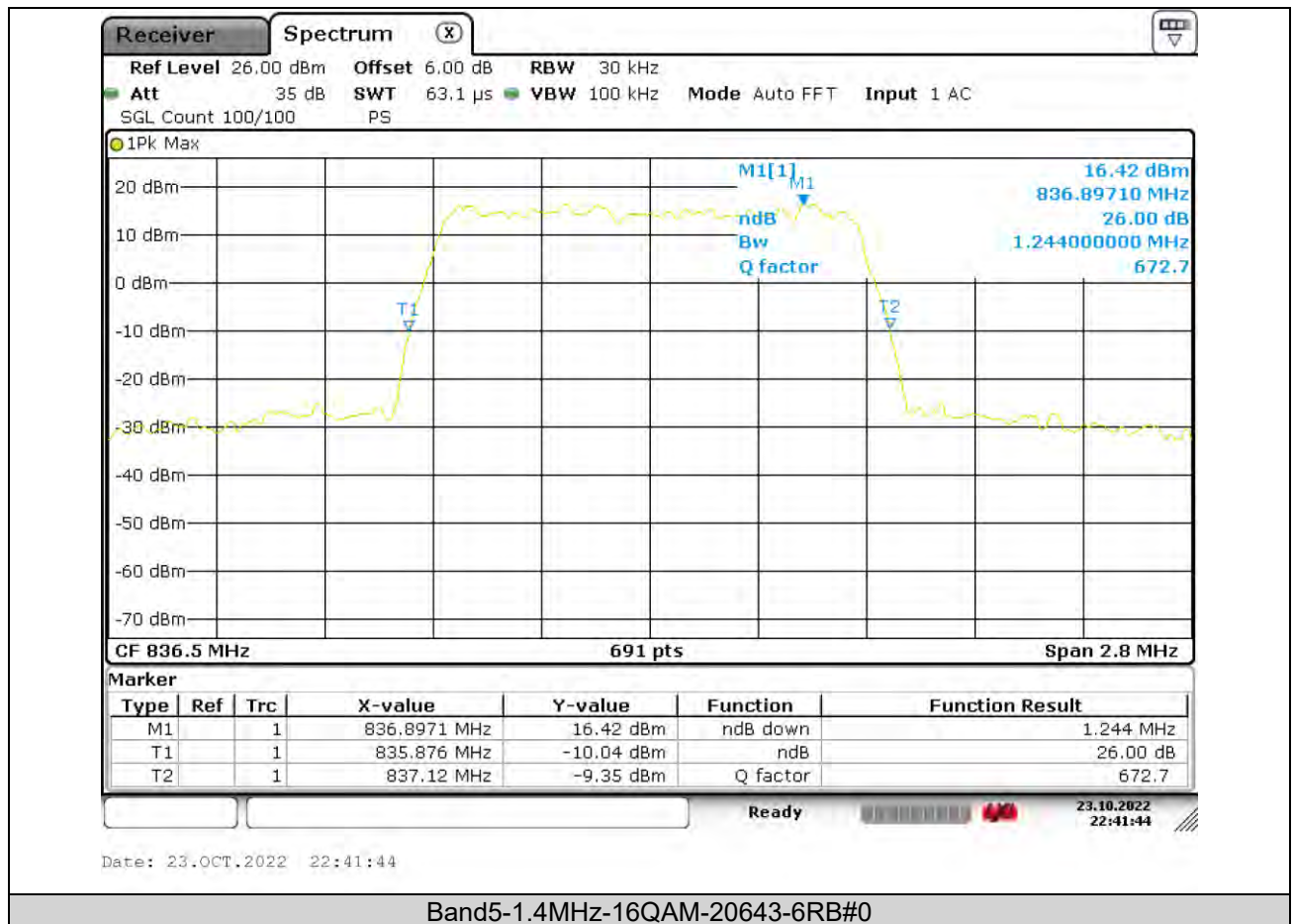
Date: 23.OCT.2022 22:40:29

Band5-1.4MHz-16QAM-20525-6RB#0



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VERITAS

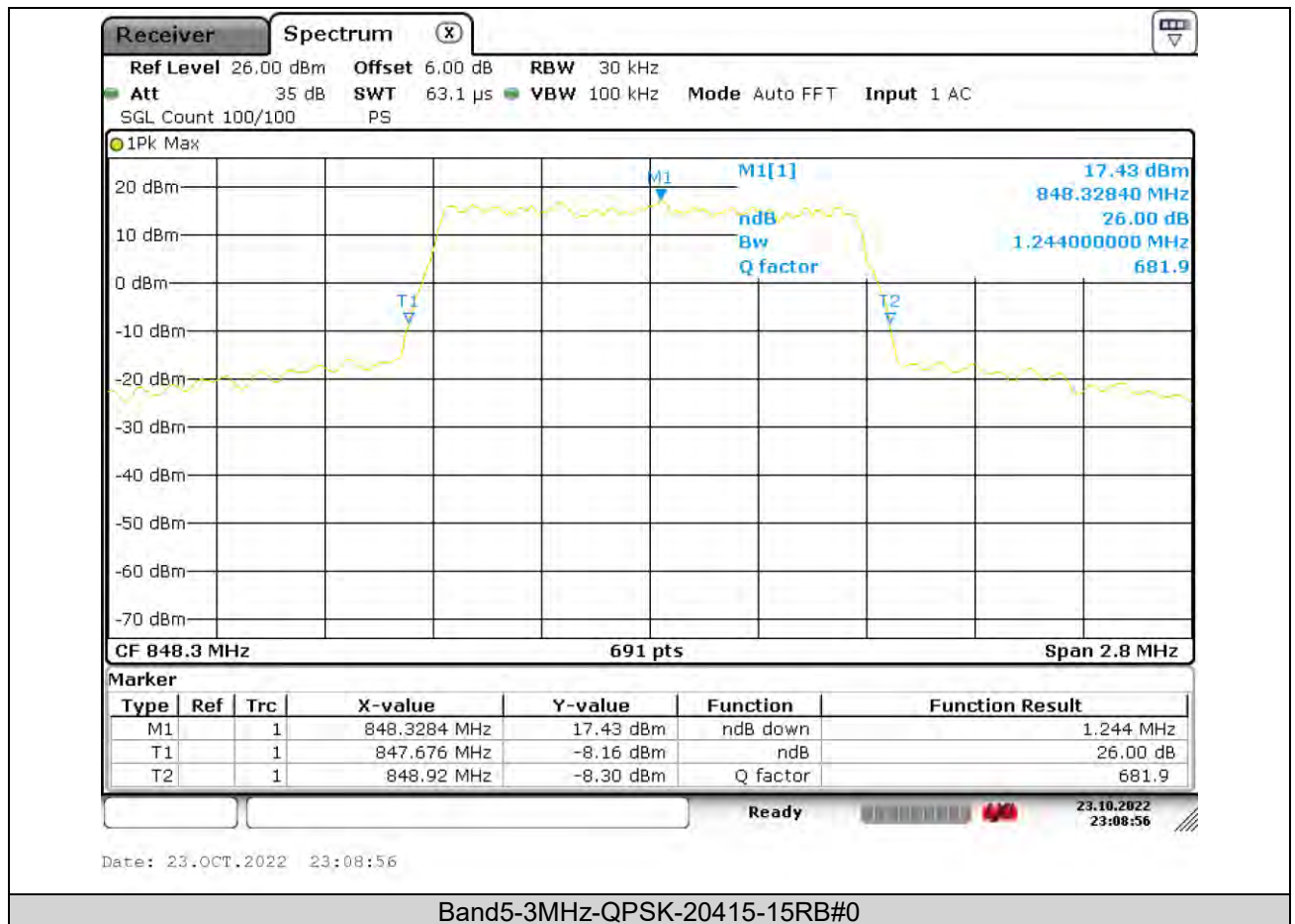
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VERITAS

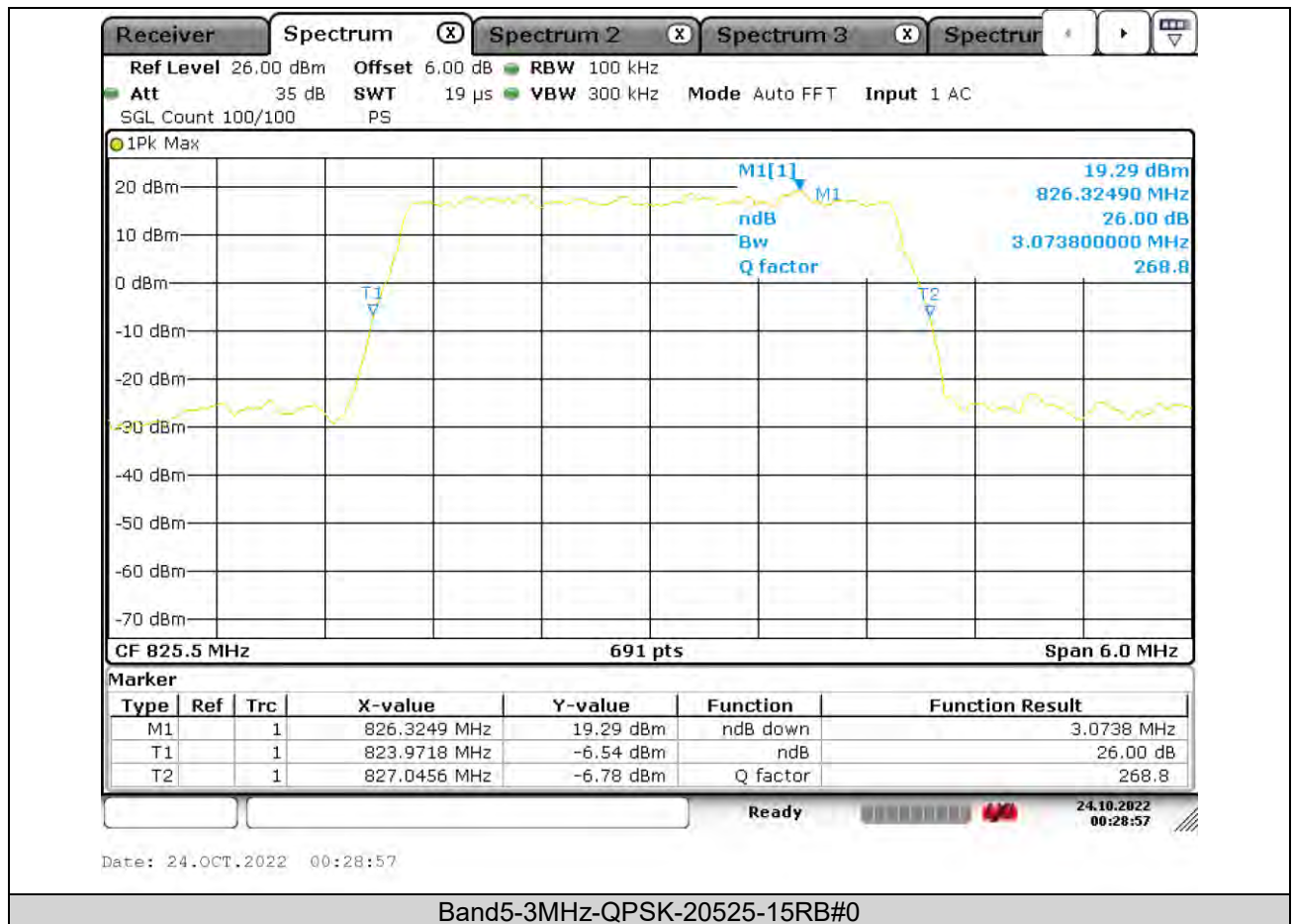
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VERITAS

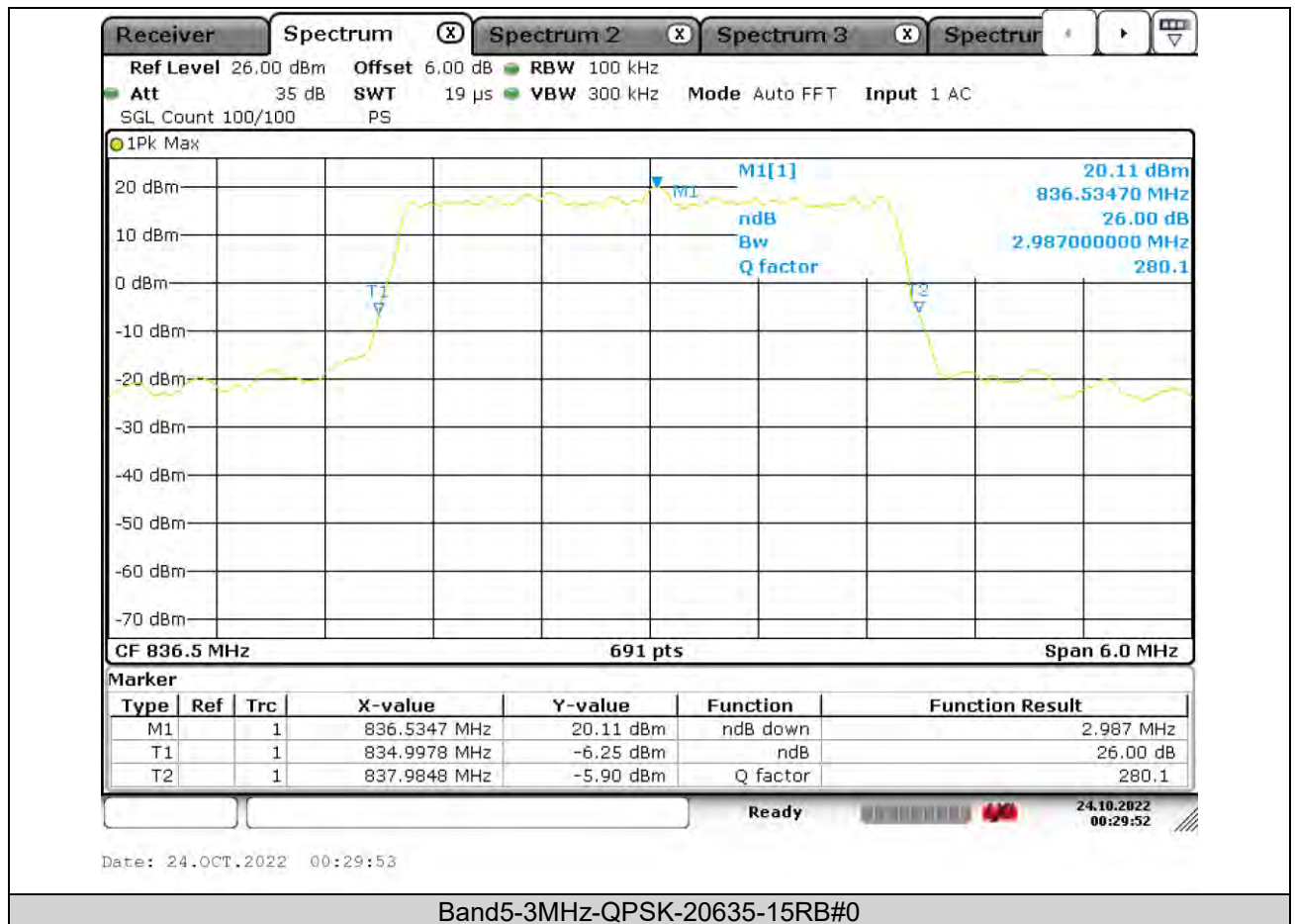
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VERITAS

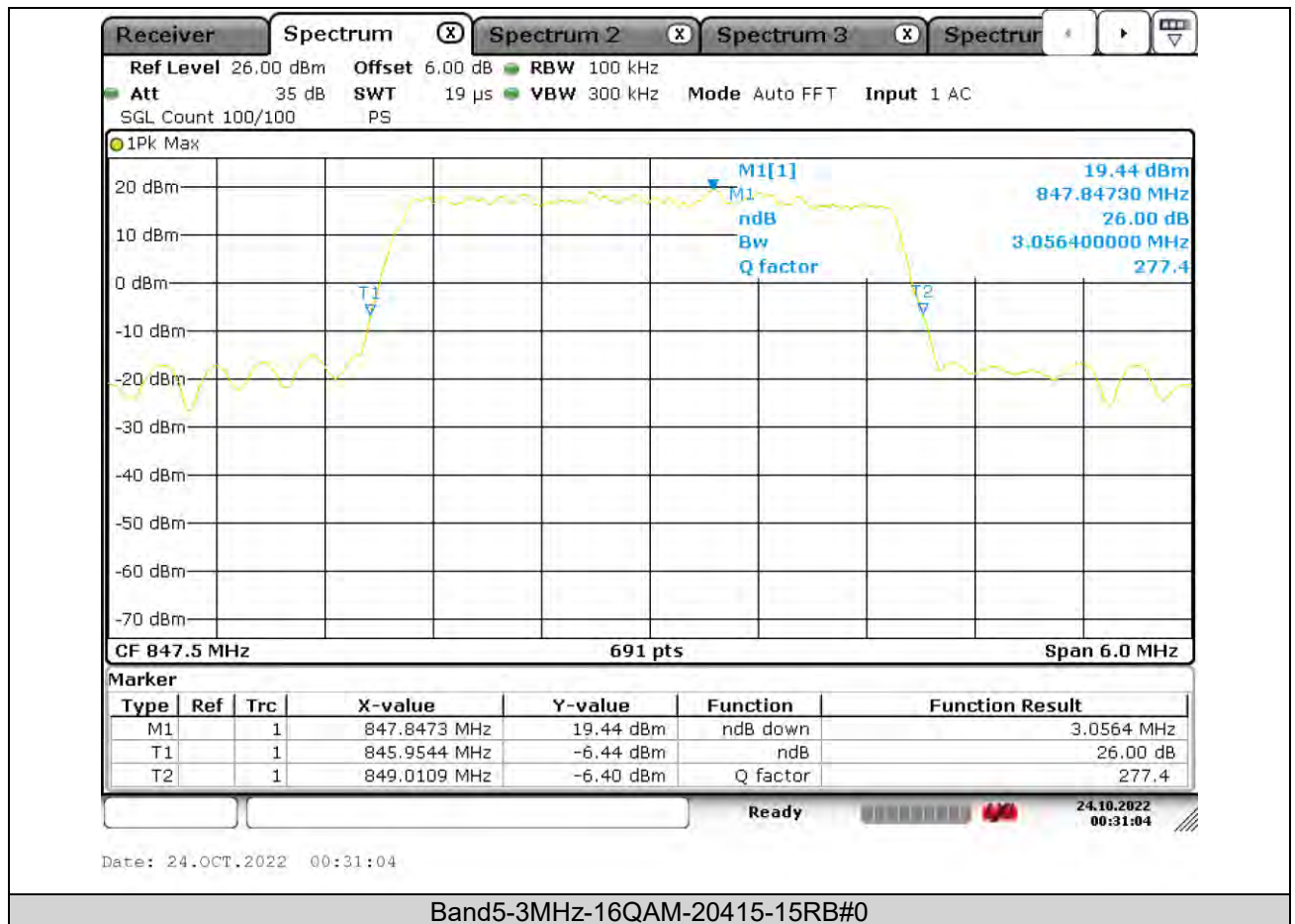
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VERITAS

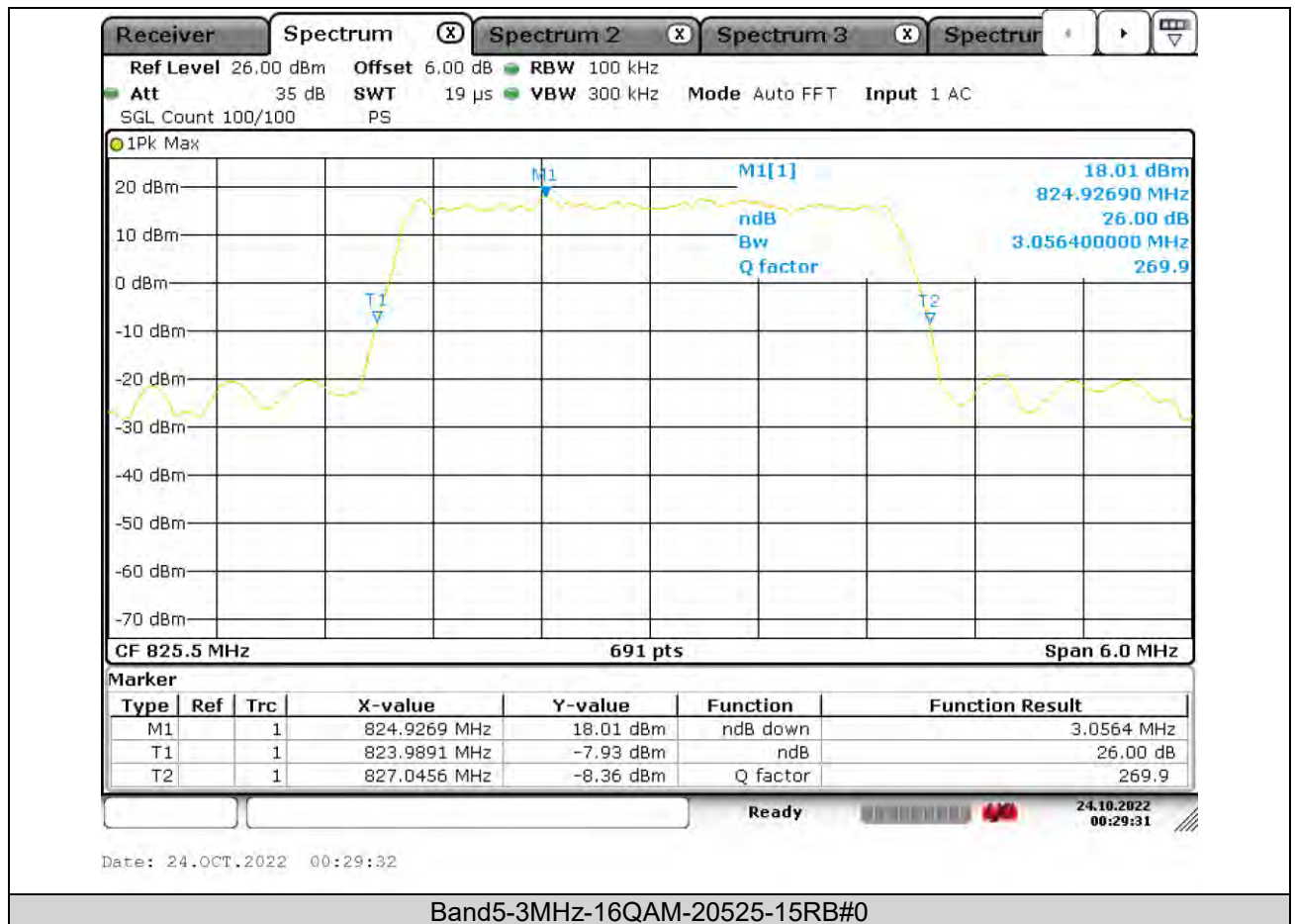
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VERITAS

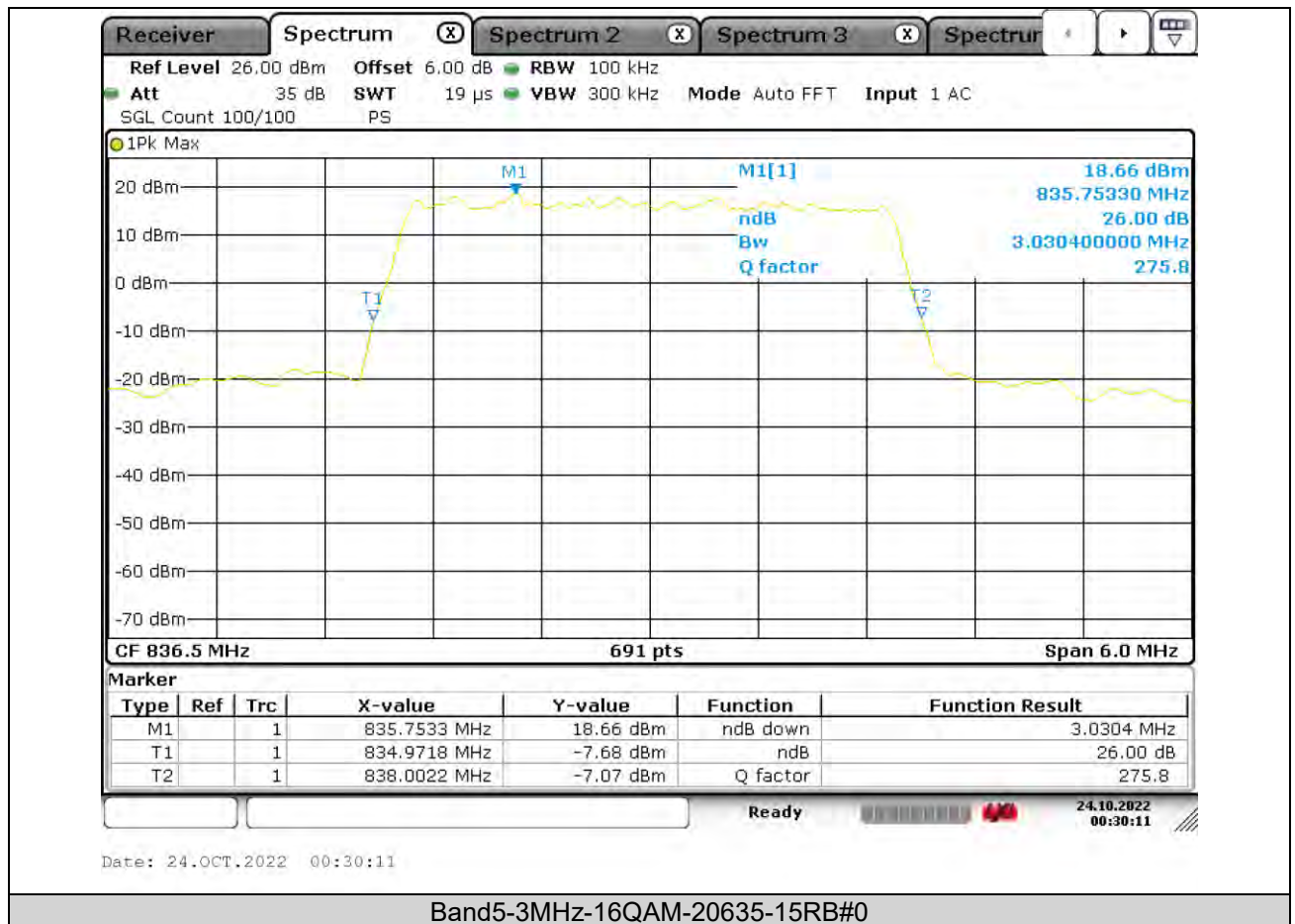
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VERITAS

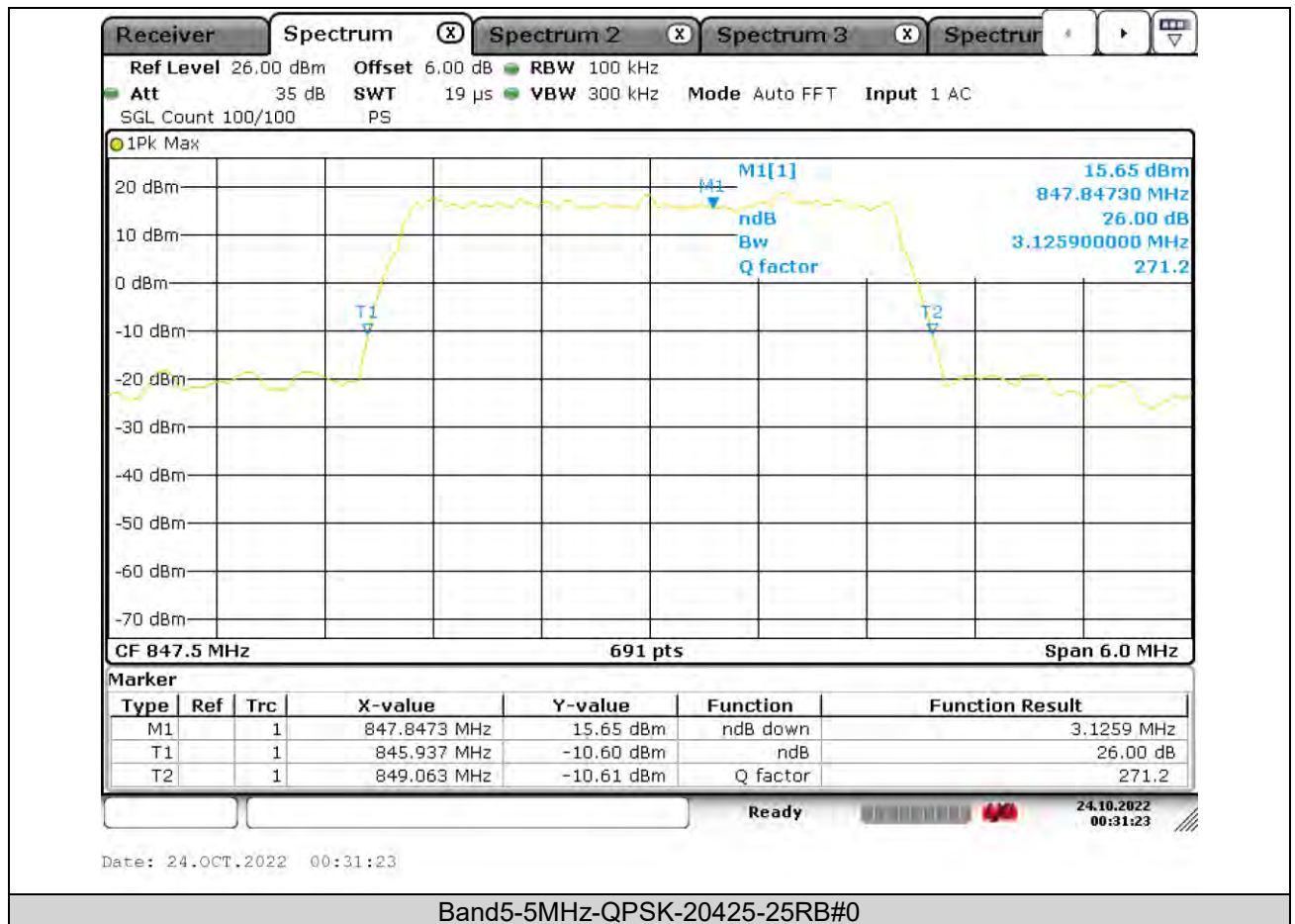
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VERITAS

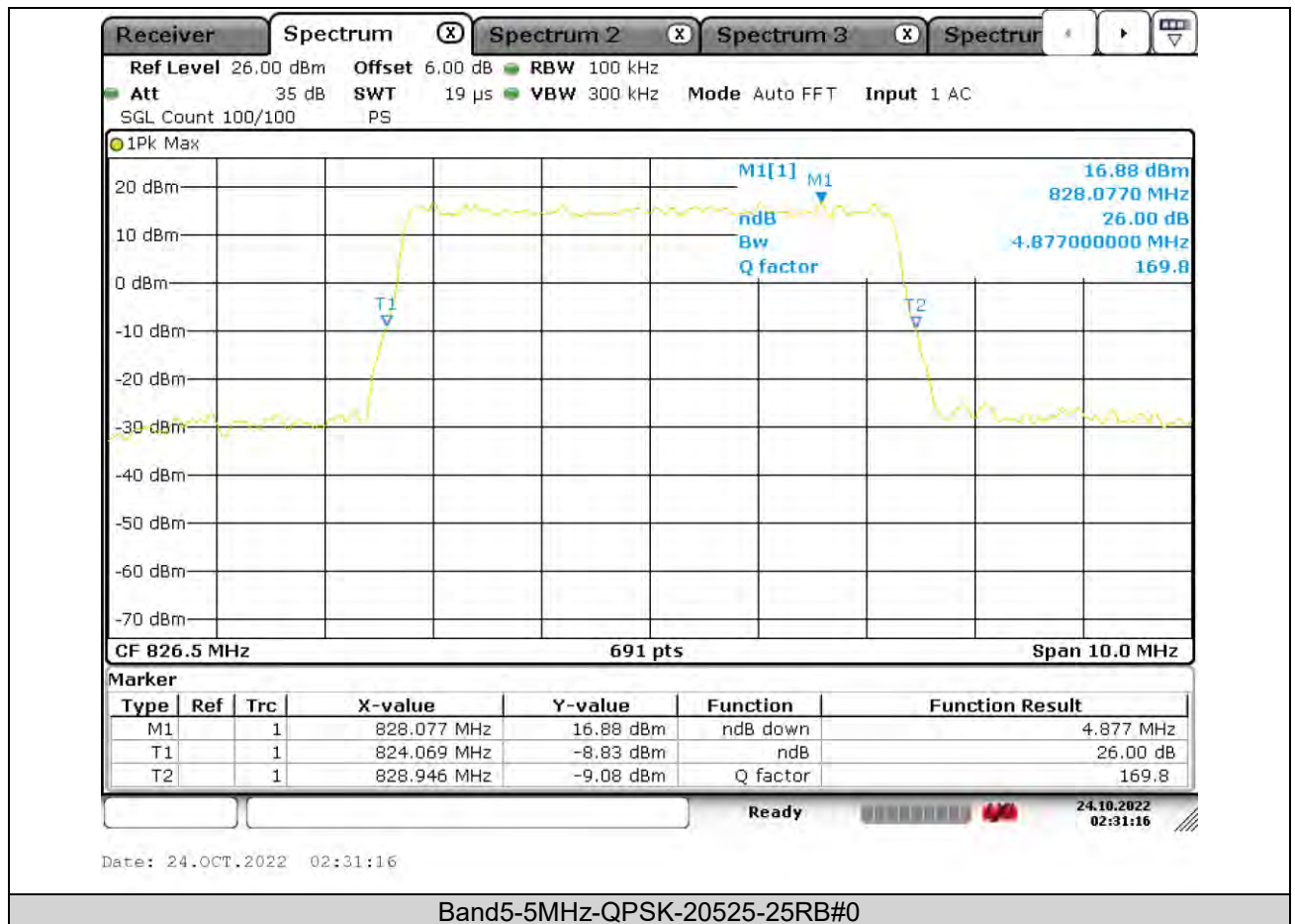
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VERITAS

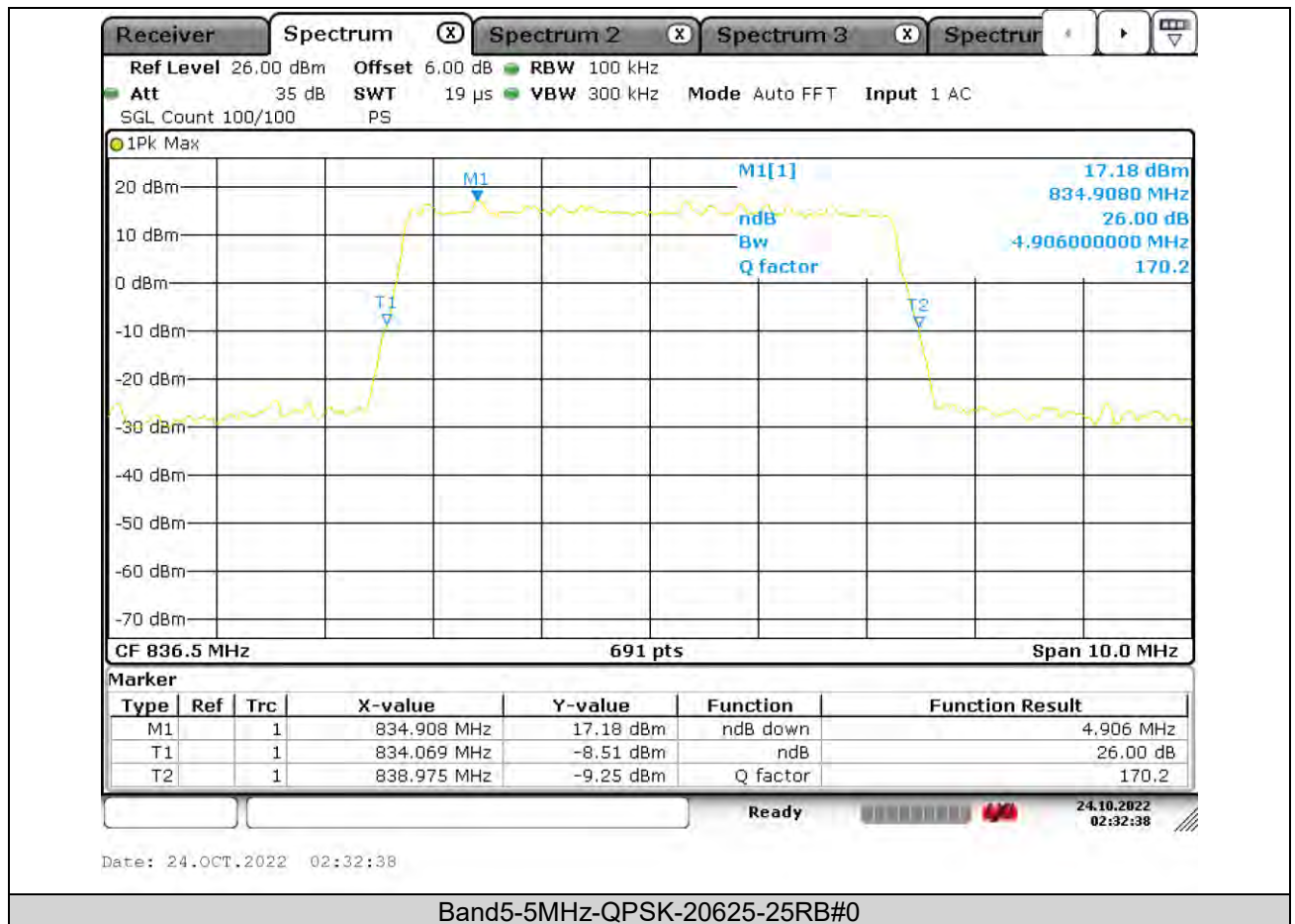
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VERITAS

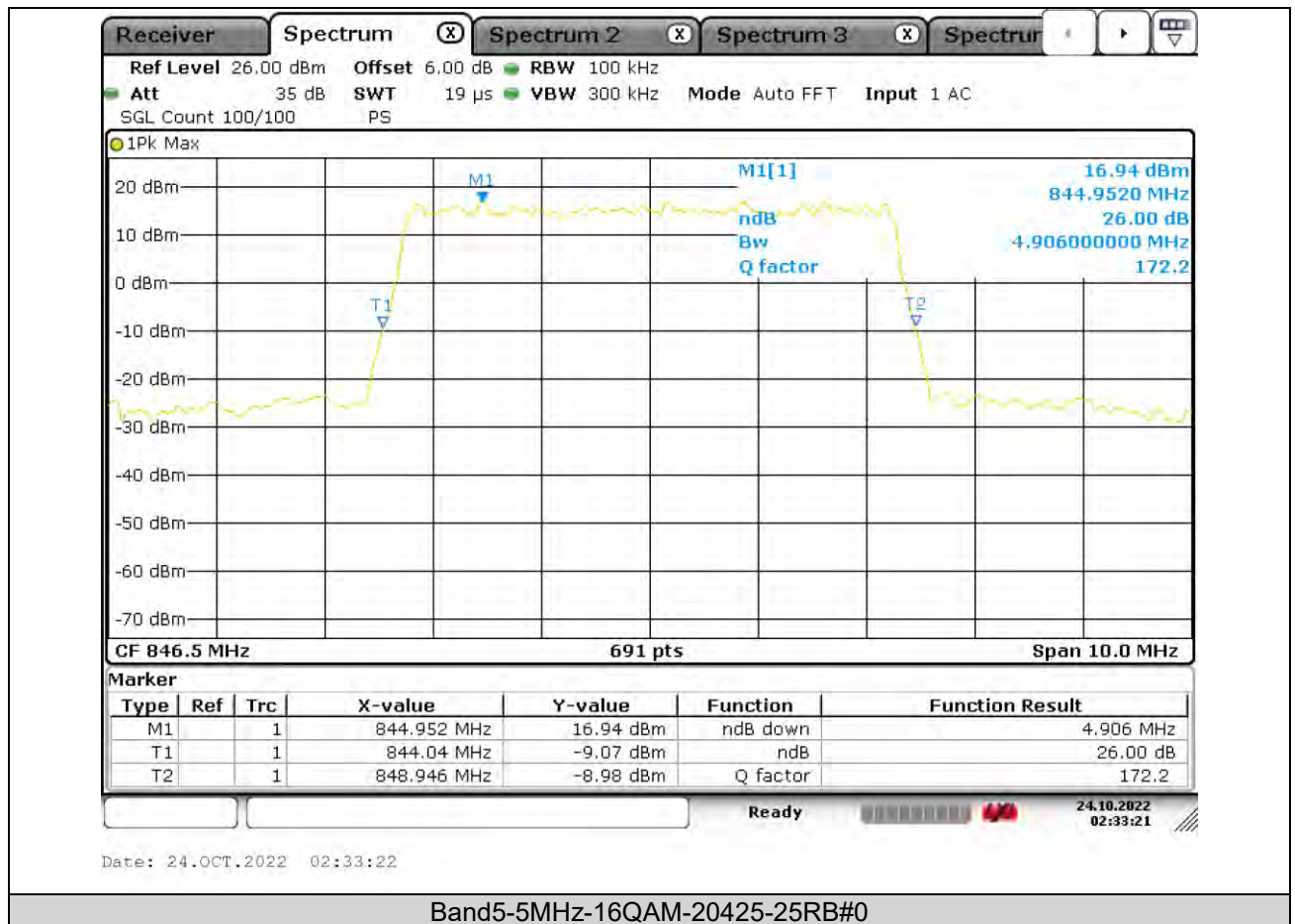
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VERITAS

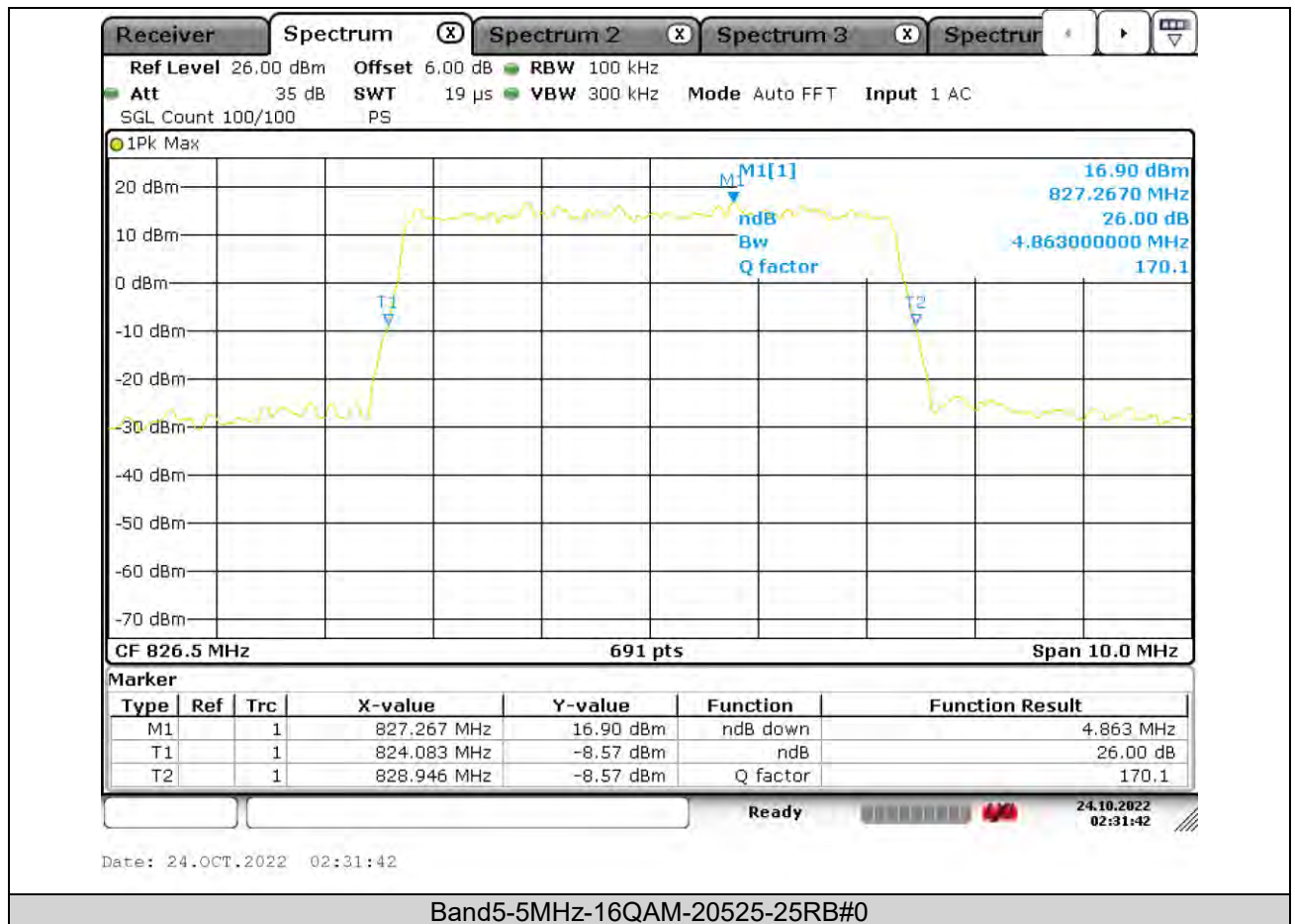
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VERITAS

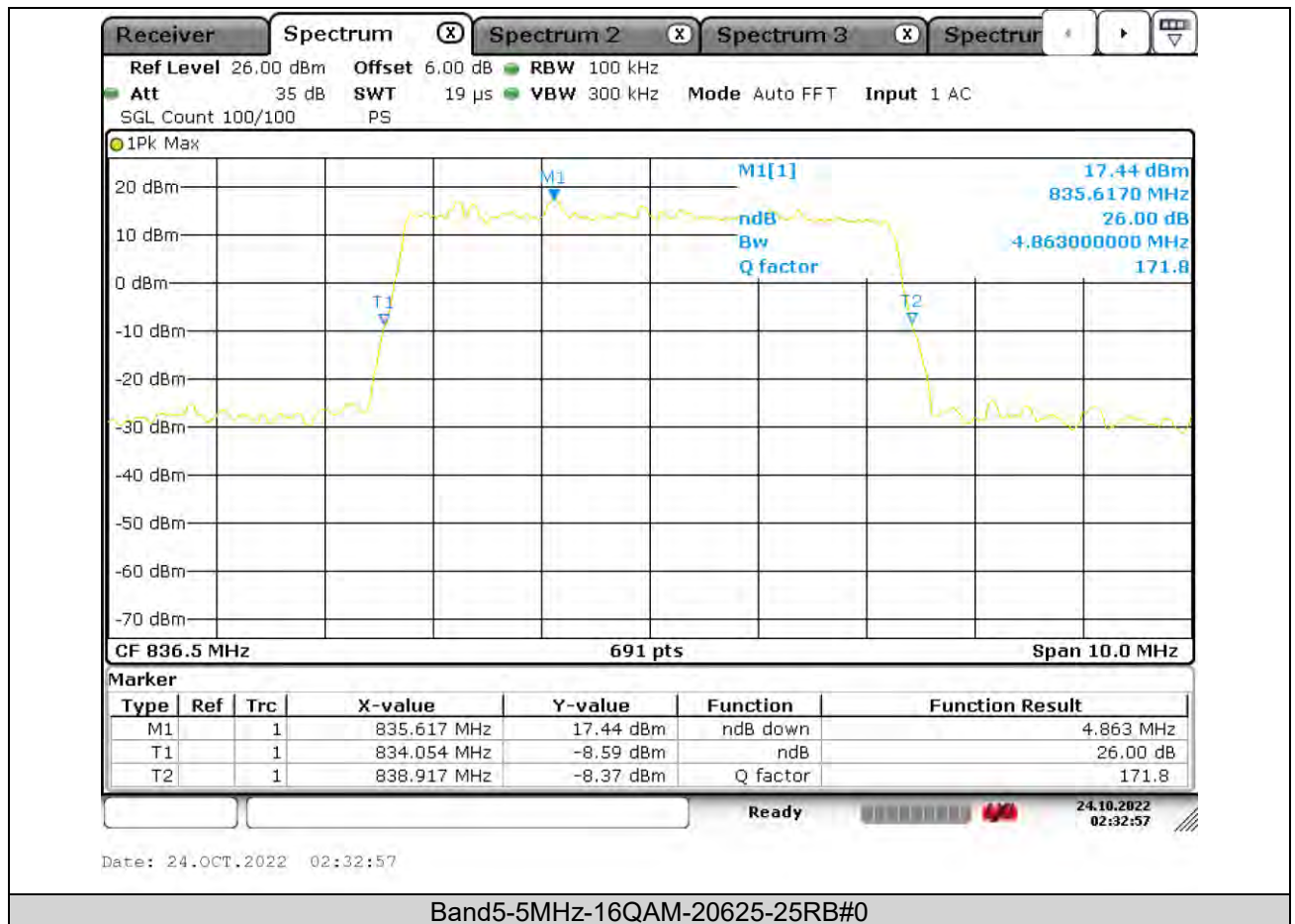
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VERITAS

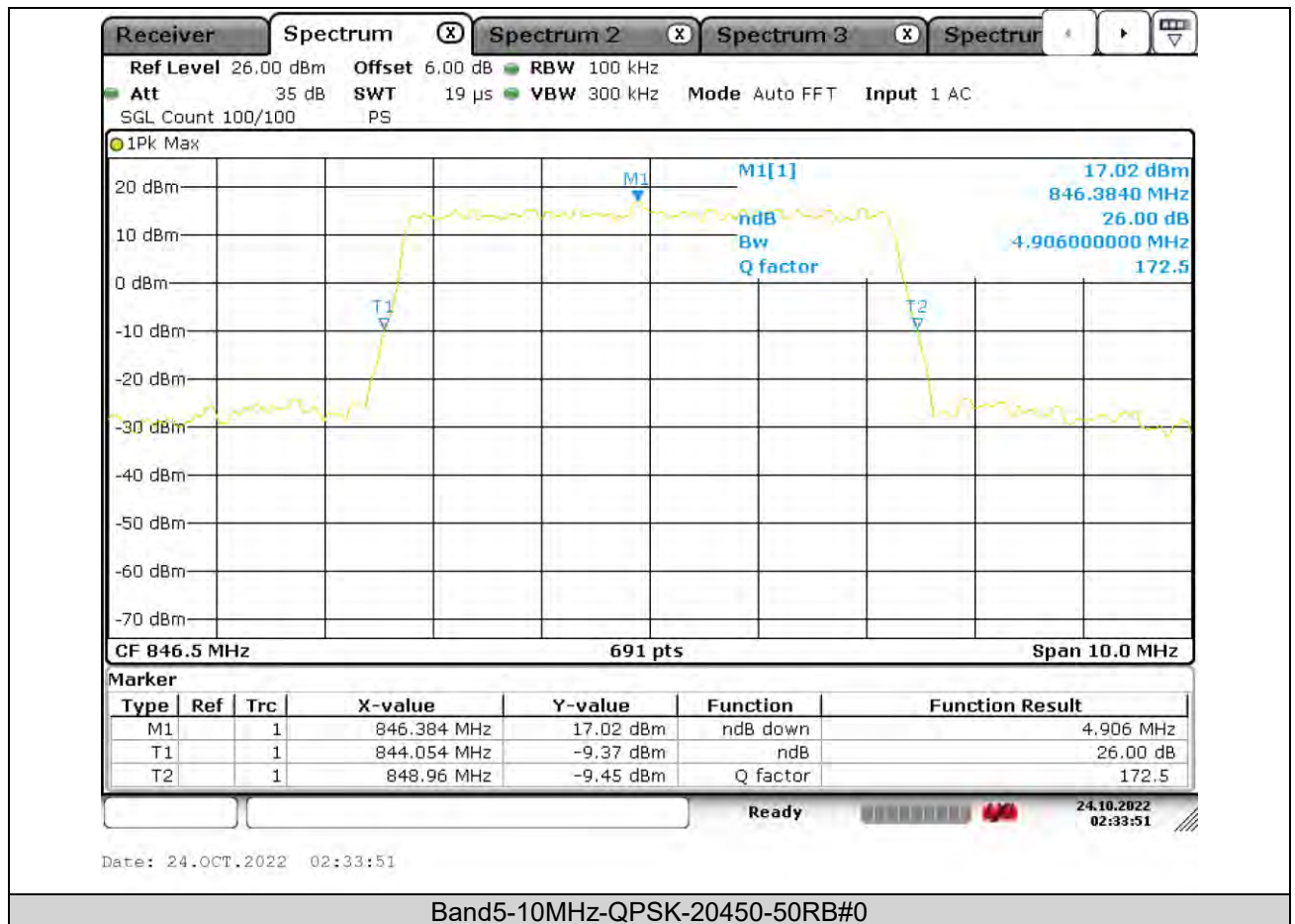
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VERITAS

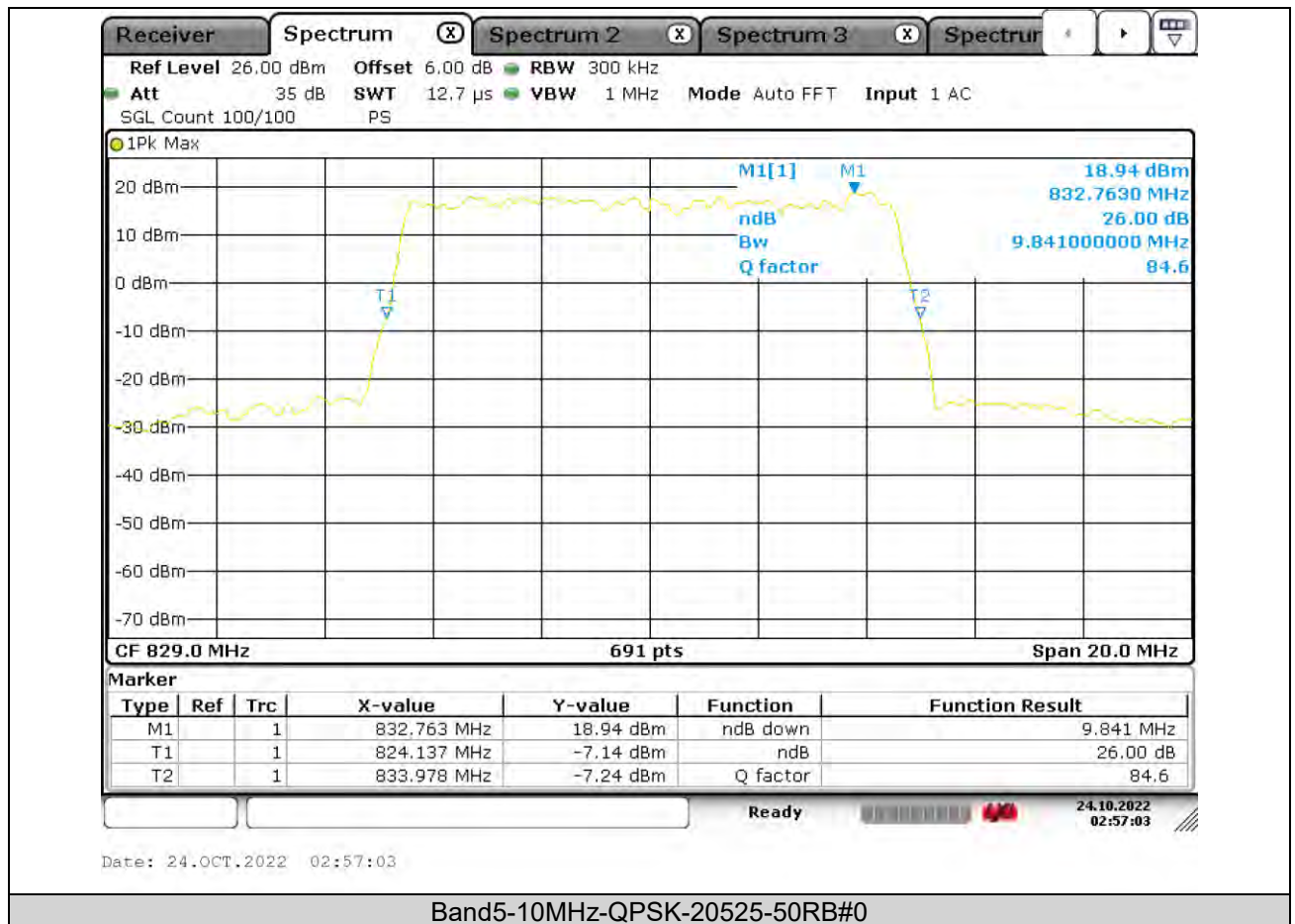
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VERITAS

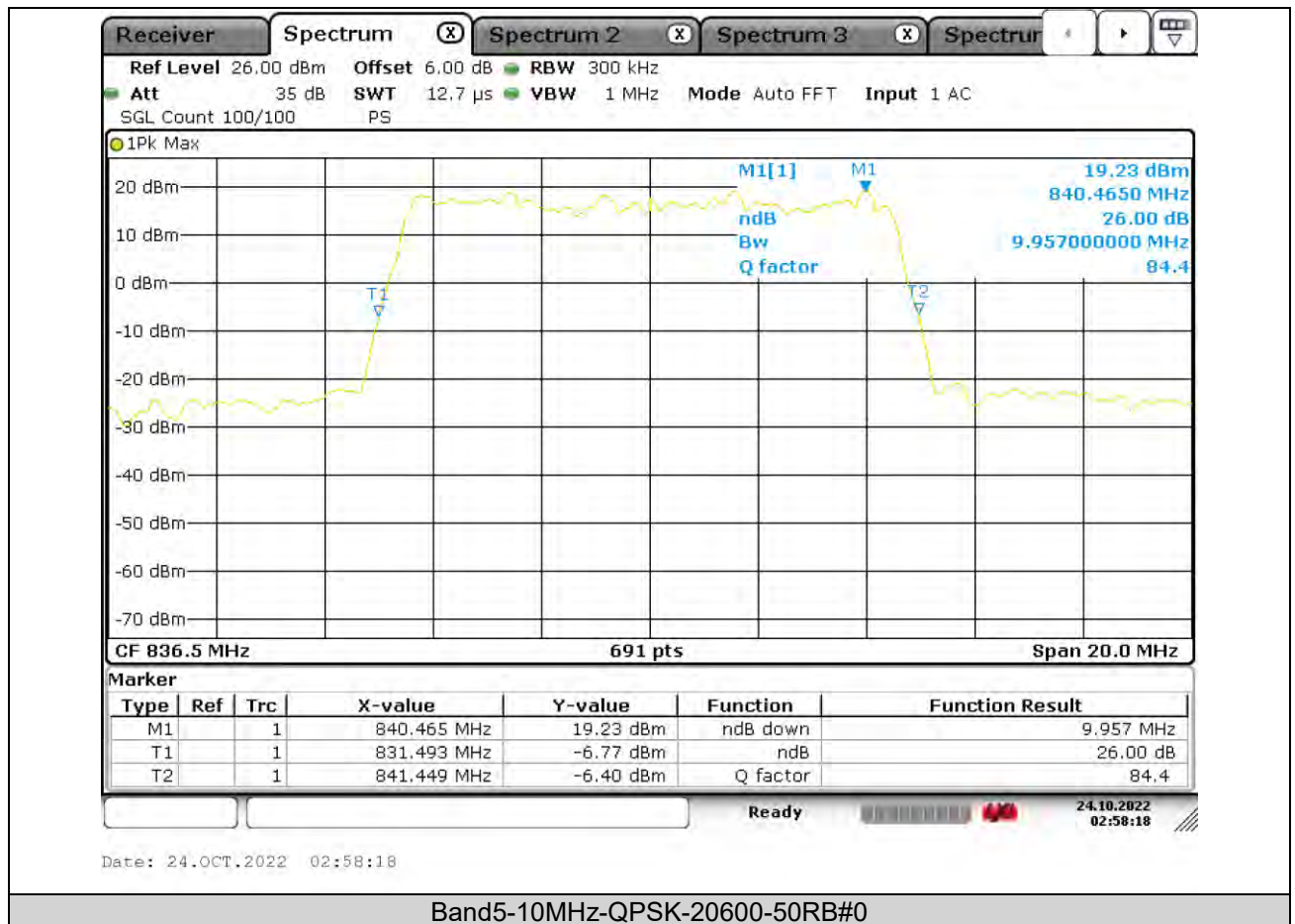
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VERITAS

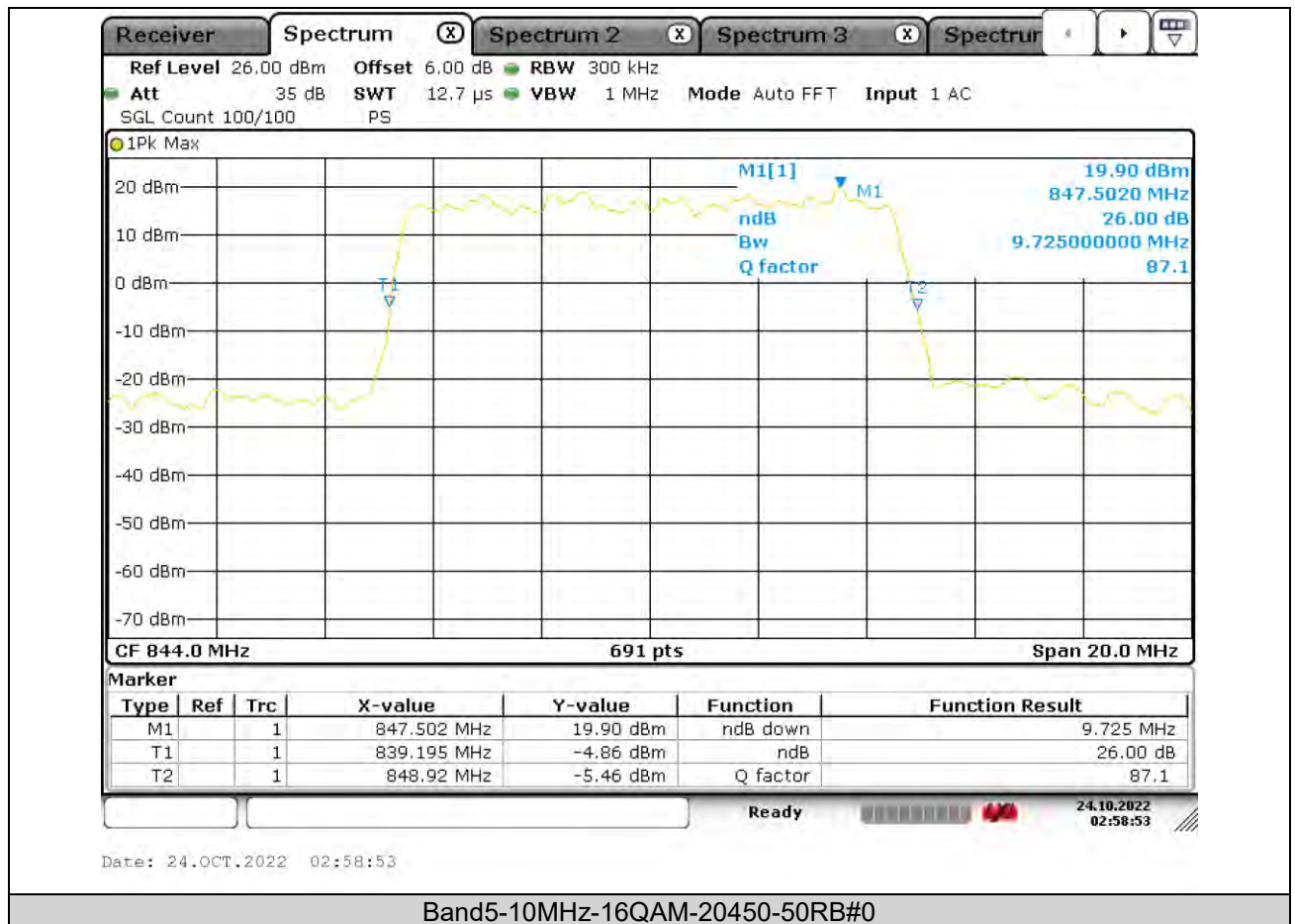
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VERITAS

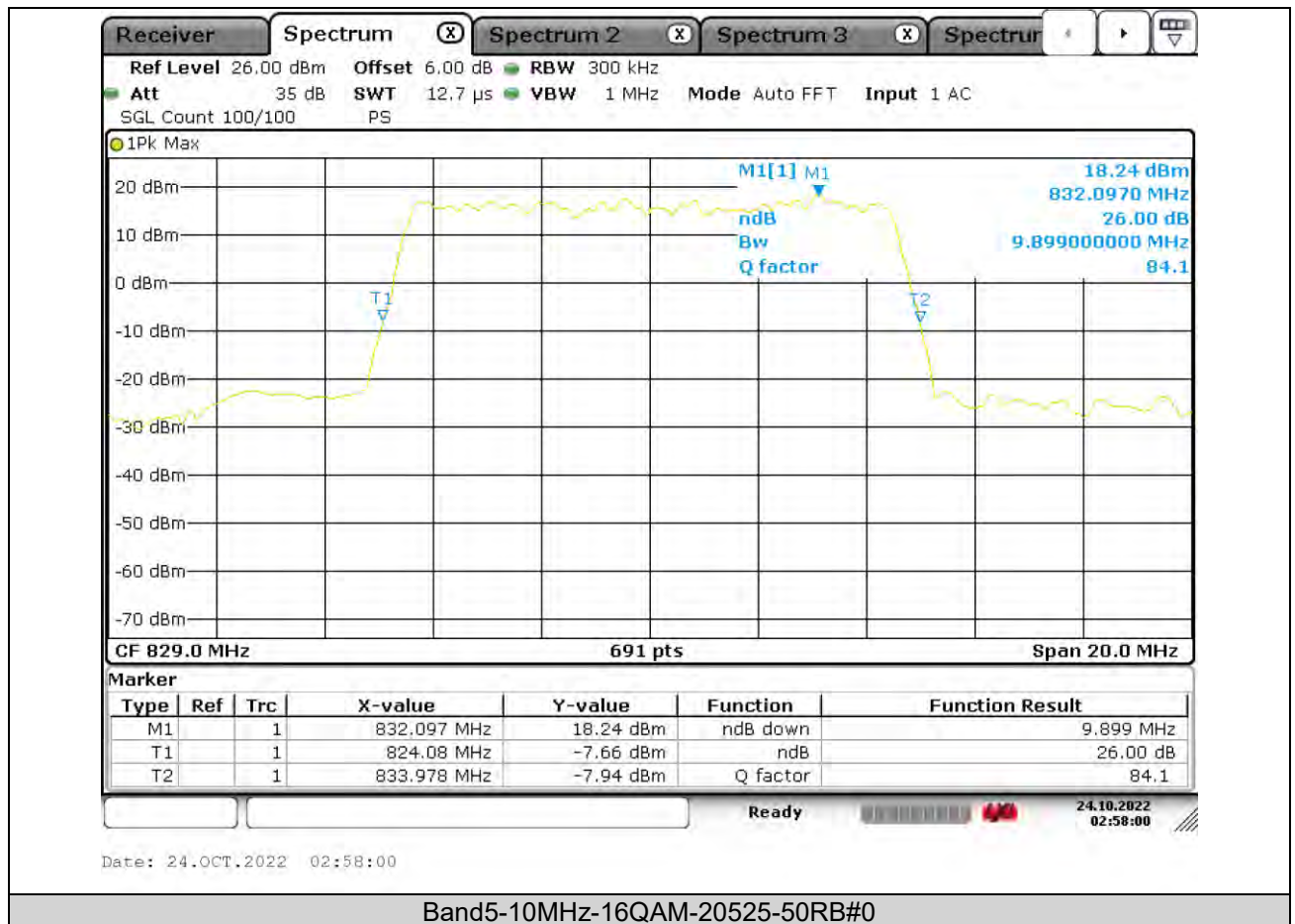
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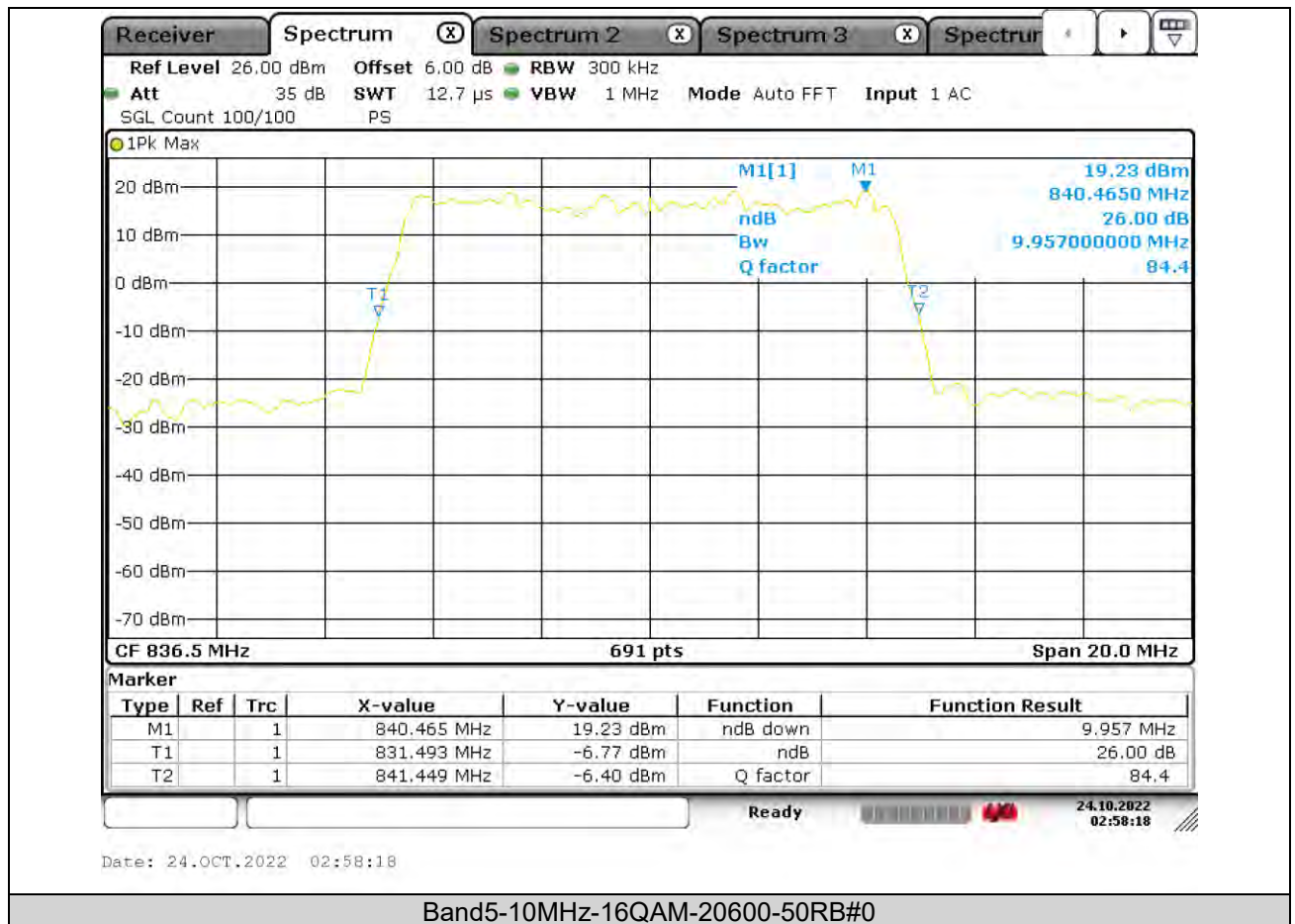
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Test Report No.: W7L-P22090023RF03





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