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Appendix B.13

LTE Band 26(814-824)



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Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.59	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.60	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.44	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.64	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.73	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.58	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.63	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.68	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.63	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.78	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.69	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.71	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.74	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.00	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.13	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.77	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.97	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.03	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.05	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.76	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	23.21	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.39	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.85	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.76	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	21.77	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	21.74	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	21.78	50	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	20.67	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#0	21.71	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	21.87	50	PASS



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Band26	1.4MHz	64QAM	26740	1RB#5	21.92	50	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	20.60	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	21.87	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	21.98	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	21.93	50	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	20.67	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.64	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.93	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.61	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.76	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.67	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.82	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.76	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.74	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.75	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.85	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.73	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.75	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.00	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.29	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	23.26	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.79	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.07	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.99	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.93	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.79	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	23.06	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	23.12	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.86	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.81	50	PASS
Band26	3MHz	64QAM	26705	1RB#0	21.80	50	PASS
Band26	3MHz	64QAM	26705	1RB#8	21.83	50	PASS
Band26	3MHz	64QAM	26705	1RB#14	21.70	50	PASS
Band26	3MHz	64QAM	26705	15RB#0	20.63	50	PASS
Band26	3MHz	64QAM	26740	1RB#0	21.83	50	PASS
Band26	3MHz	64QAM	26740	1RB#8	21.86	50	PASS
Band26	3MHz	64QAM	26740	1RB#14	21.76	50	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.70	50	PASS



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Band26	3MHz	64QAM	26775	1RB#8	21.91	50	PASS
Band26	3MHz	64QAM	26775	1RB#14	21.83	50	PASS
Band26	3MHz	64QAM	26775	15RB#0	20.70	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.88	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.65	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	24.03	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.68	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.93	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.71	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	24.02	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.80	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	24.04	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.69	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.51	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.77	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.15	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.94	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	23.32	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.70	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.24	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.89	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	23.33	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.71	50	PASS
Band26	5MHz	16QAM	26765	1RB#0	23.25	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.99	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.96	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.80	50	PASS
Band26	5MHz	64QAM	26715	1RB#0	21.81	50	PASS
Band26	5MHz	64QAM	26715	1RB#12	21.71	50	PASS
Band26	5MHz	64QAM	26715	1RB#24	21.87	50	PASS
Band26	5MHz	64QAM	26715	25RB#0	20.65	50	PASS
Band26	5MHz	64QAM	26740	1RB#0	21.87	50	PASS
Band26	5MHz	64QAM	26740	1RB#12	21.77	50	PASS
Band26	5MHz	64QAM	26740	1RB#24	21.99	50	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.71	50	PASS
Band26	5MHz	64QAM	26765	1RB#0	21.84	50	PASS
Band26	5MHz	64QAM	26765	1RB#12	21.79	50	PASS



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Band26	5MHz	64QAM	26765	1RB#24	21.83	50	PASS
Band26	5MHz	64QAM	26765	25RB#0	20.65	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	24.00	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.82	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	24.08	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.88	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.09	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.94	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.41	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.85	50	PASS
Band26	10MHz	64QAM	26740	1RB#0	22.12	50	PASS
Band26	10MHz	64QAM	26740	1RB#24	21.85	50	PASS
Band26	10MHz	64QAM	26740	1RB#49	21.85	50	PASS
Band26	10MHz	64QAM	26740	50RB#0	20.76	50	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.19	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.94	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.38	13	PASS



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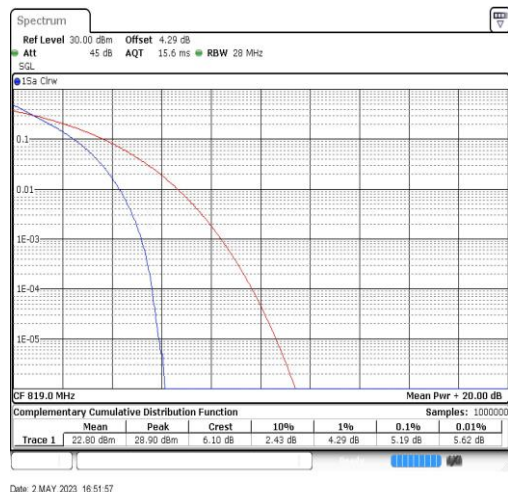


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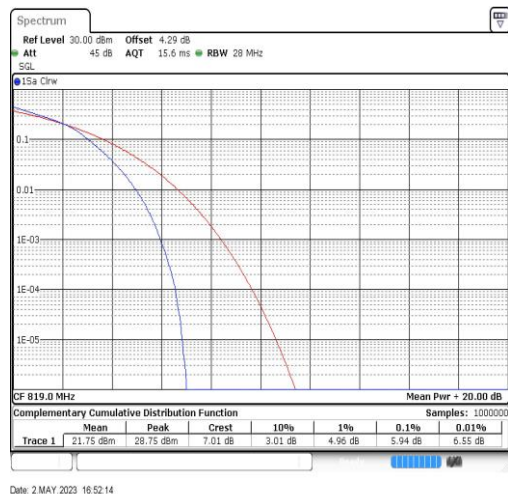
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Test Graphs



Band26-10MHz-QPSK-26740-50RB#0



Band26-10MHz-16QAM-26740-50RB#0

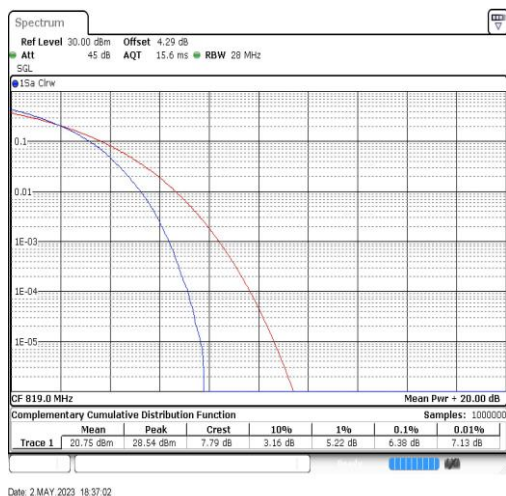




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Band26-10MHz-64QAM-26740-50RB#0





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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS
Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS



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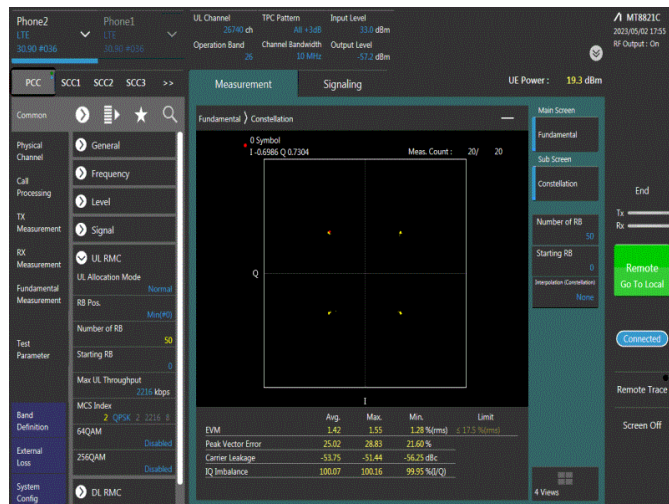
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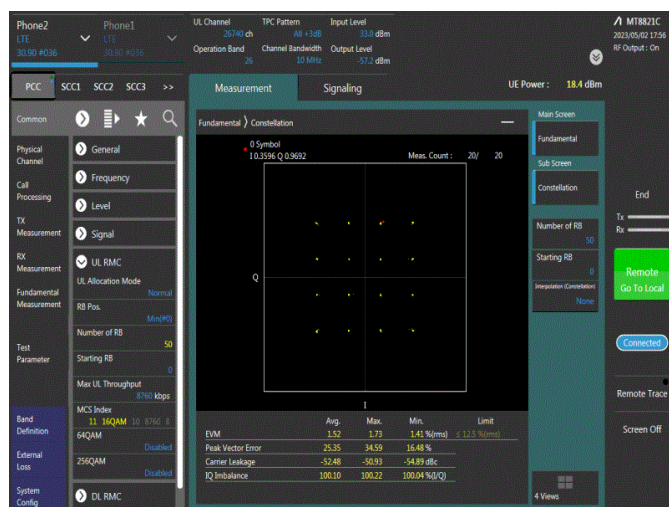
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Test Graphs



Band26-10MHz-QPSK-26740-50RB#0



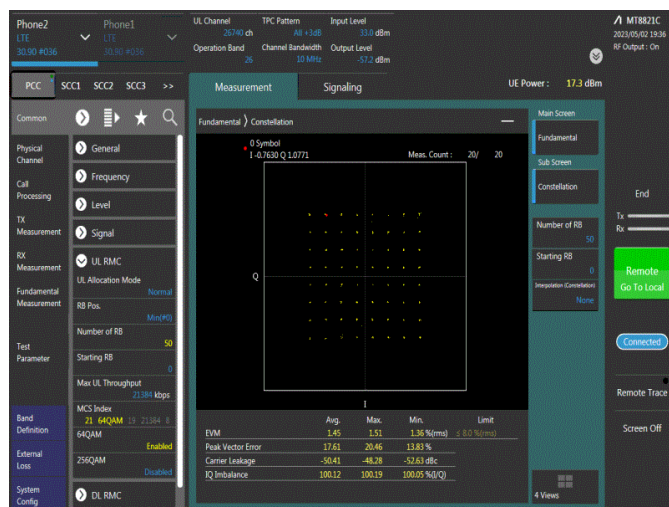
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Band26-10MHz-64QAM-26740-50RB#0





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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.088	1.28	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.088	1.27	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.088	1.28	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.097	1.29	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.097	1.29	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.097	1.28	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.097	1.30	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.097	1.29	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.094	1.27	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	2.98	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.691	2.96	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.95	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.99	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.691	2.98	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.685	2.98	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.685	2.97	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.685	2.96	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.691	2.96	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.466	4.89	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.476	4.90	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.476	4.90	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.466	4.94	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.466	4.93	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.93	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.466	4.89	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.476	4.90	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.476	4.92	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.911	9.68	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.931	9.68	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.931	9.62	PASS



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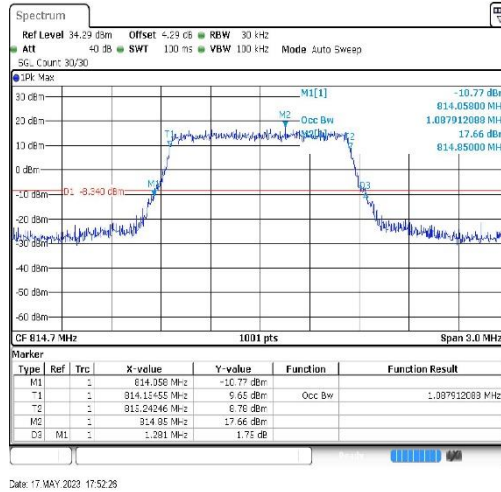
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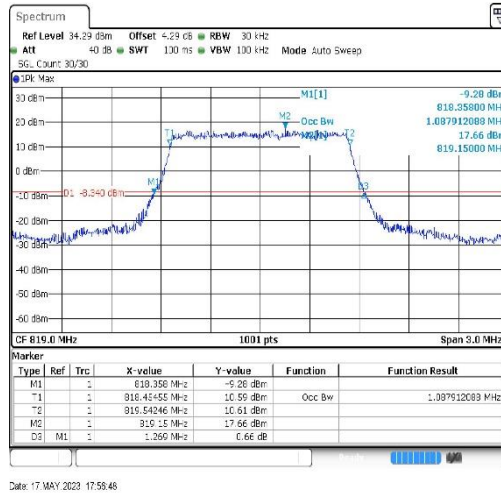
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Test Graphs



Band26-1.4MHz-QPSK-26697-6RB#0-2.97



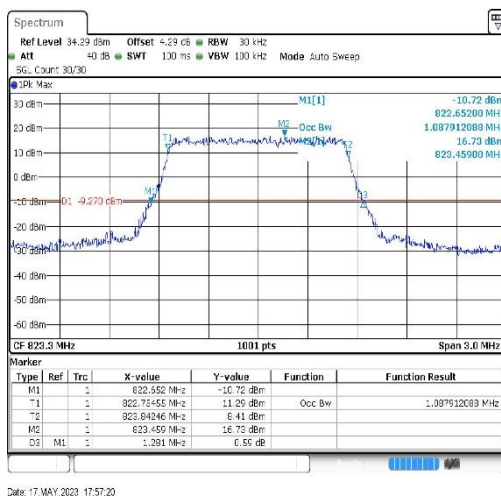
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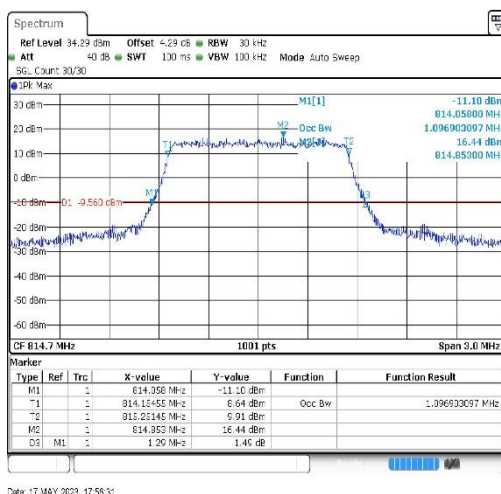
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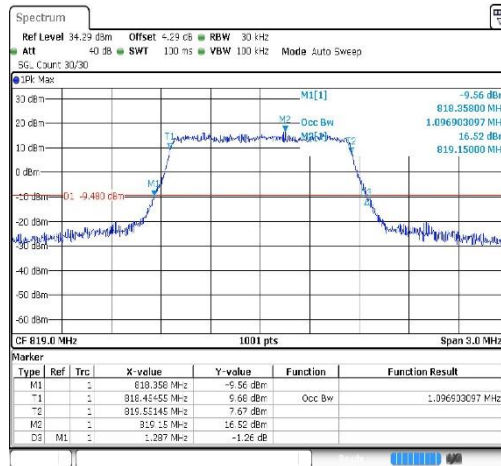


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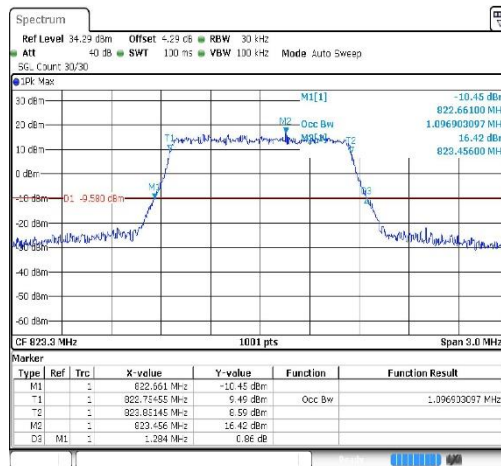


Band26-1.4MHz-16QAM-26697-6RB#0-2.967





Band26-1.4MHz-16QAM-26740-6RB#0-2.97



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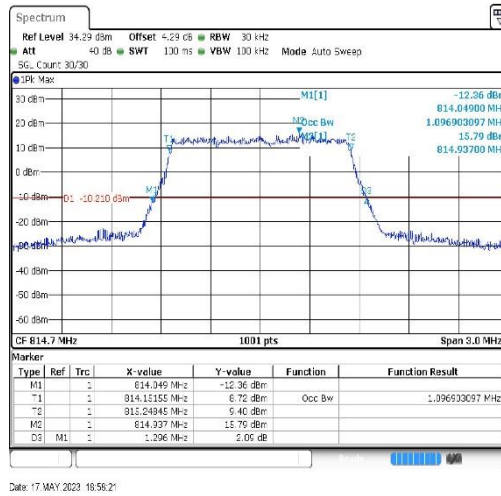
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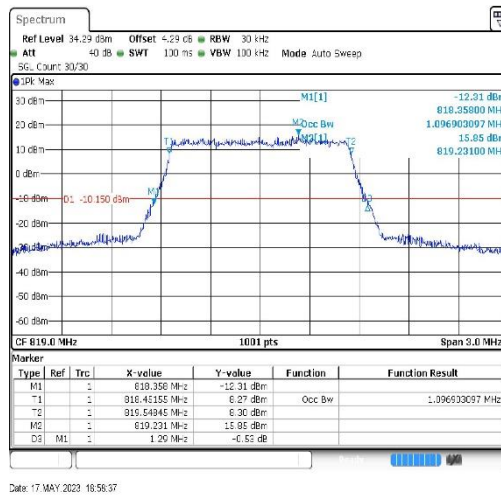
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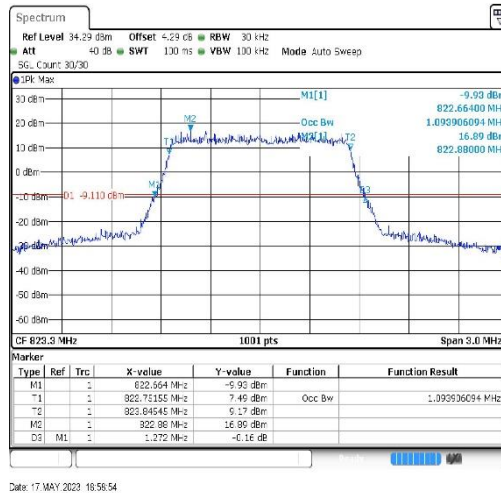
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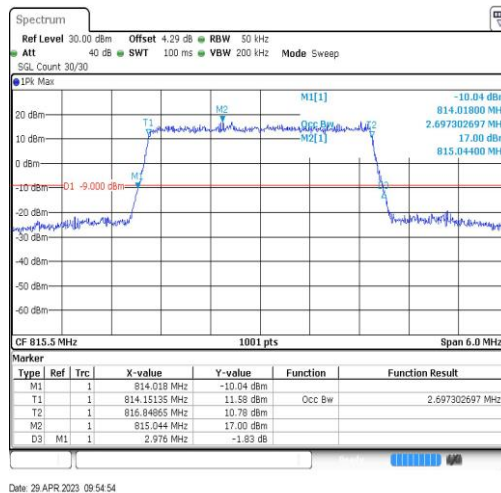
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Band26-1.4MHz-64QAM-26783-6RB#0-2.973



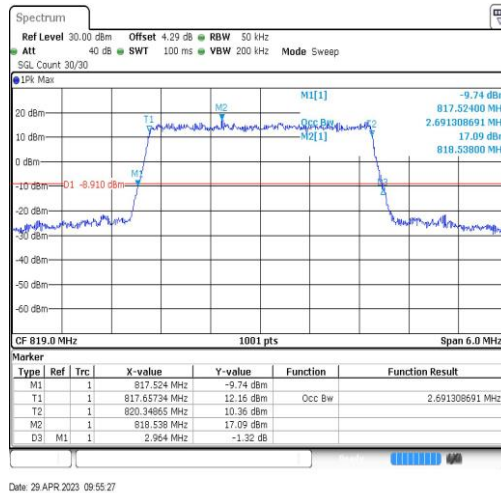
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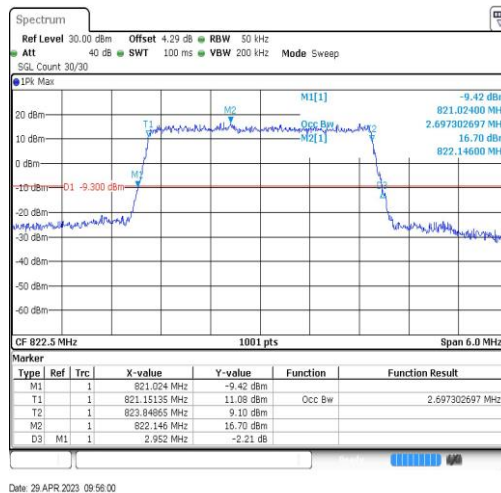
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Band26-3MHz-QPSK-26740-15RB#0-2.691



Band26-3MHz-QPSK-26775-15RB#0-2.697



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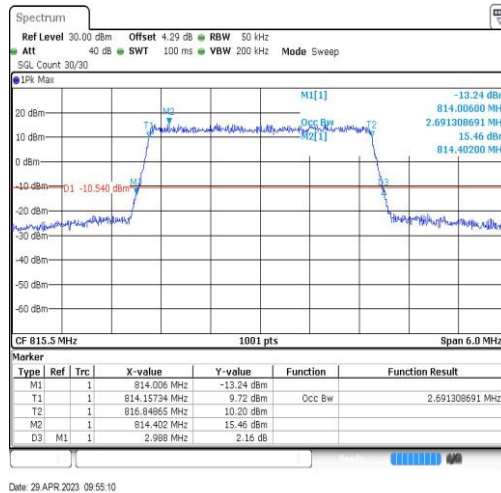
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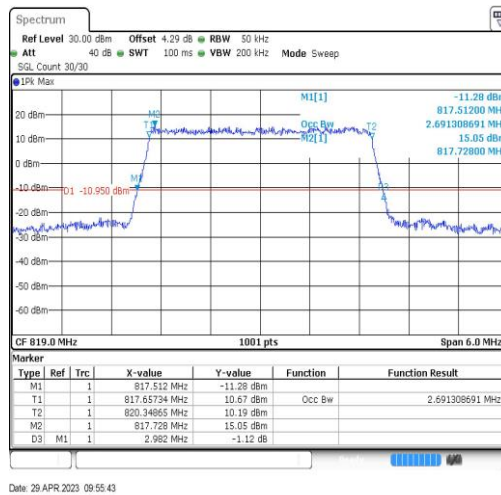
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Band26-3MHz-16QAM-26705-15RB#0-2.691



Band26-3MHz-16QAM-26740-15RB#0-2.691



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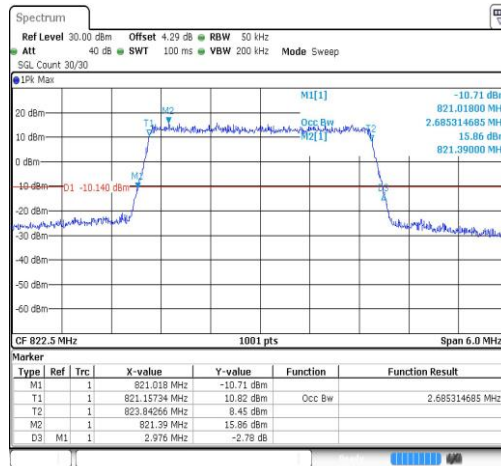
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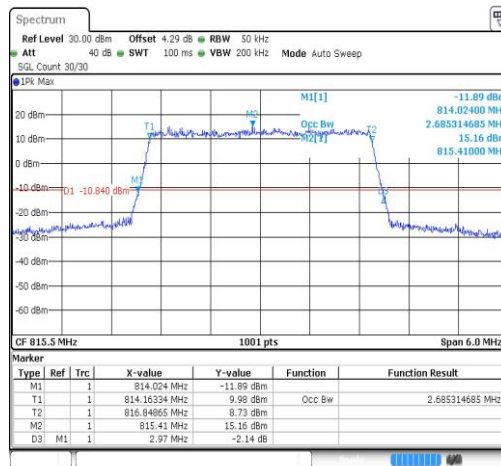
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Date: 29 APR 2023 09:56:16

Band26-3MHz-16QAM-26775-15RB#0-2.685



Date: 2 MAY 2023 04:55:04

Band26-3MHz-64QAM-26705-15RB#0-2.685

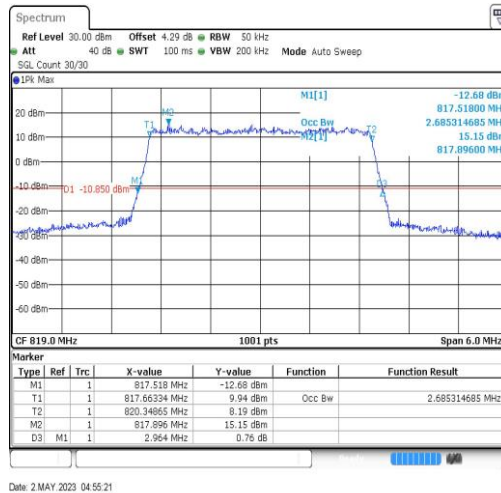


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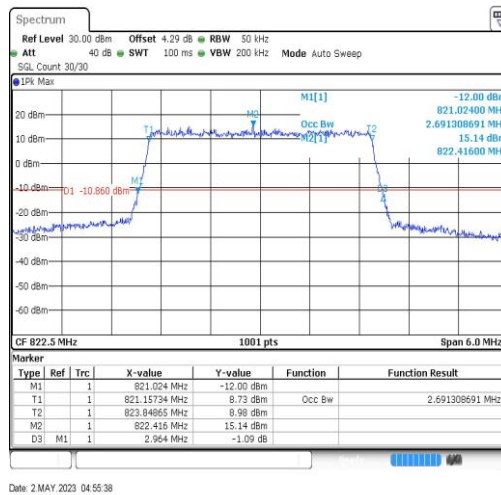
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Band26-3MHz-64QAM-26740-15RB#0-2.685



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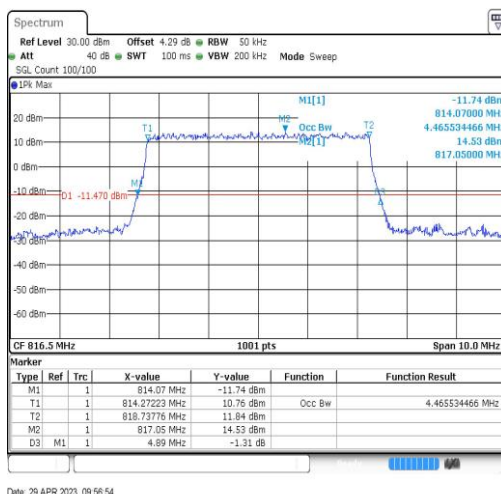
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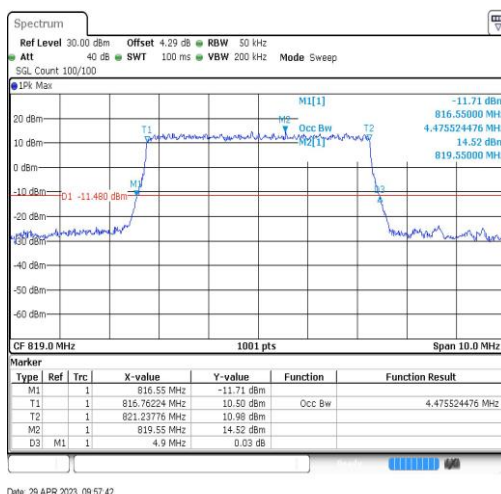
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Band26-5MHz-QPSK-26715-25RB#0-4.466



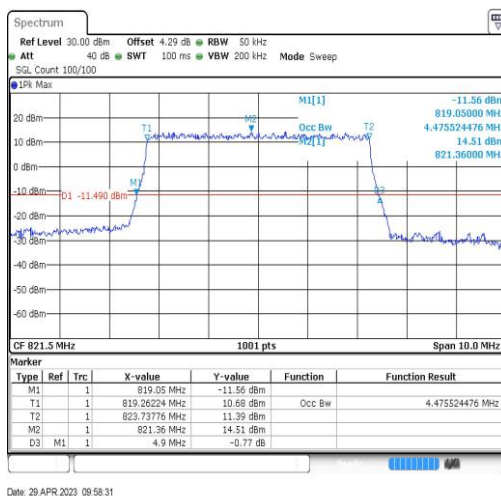
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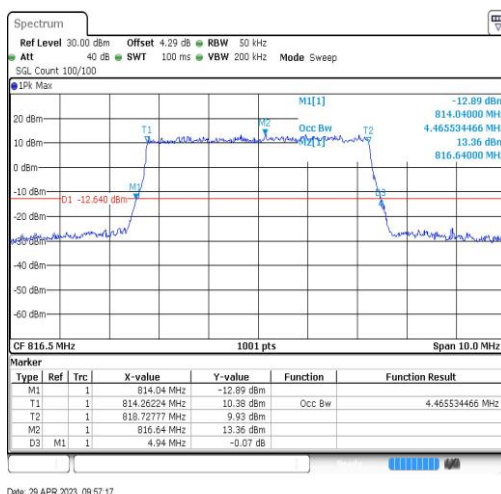
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Band26-5MHz-QPSK-26765-25RB#0-4.476



Band26-5MHz-16QAM-26715-25RB#0-4.466

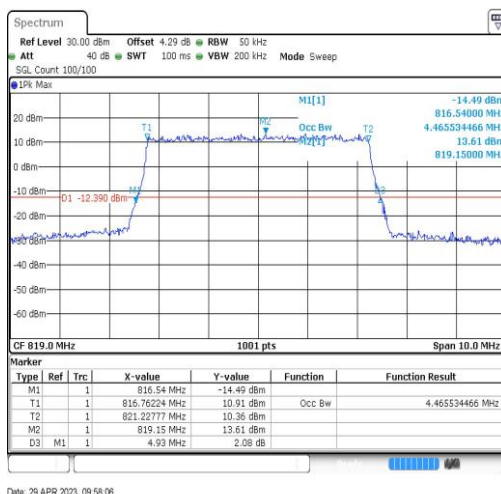




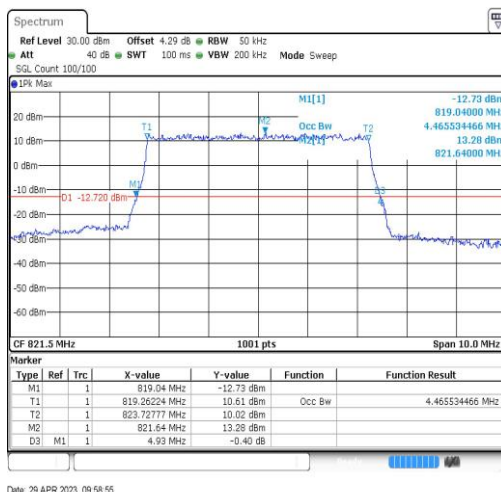
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Band26-5MHz-16QAM-26740-25RB#0-4.466



Band26-5MHz-16QAM-26765-25RB#0-4.466



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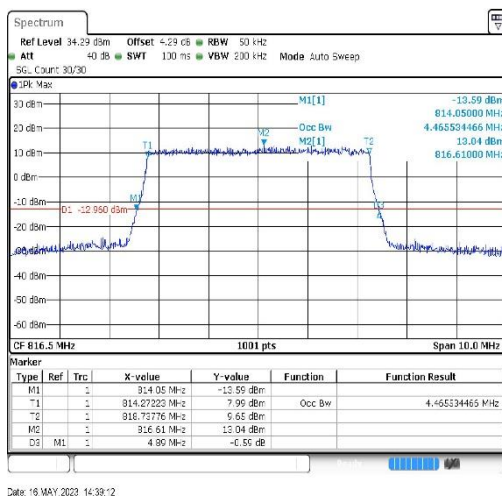
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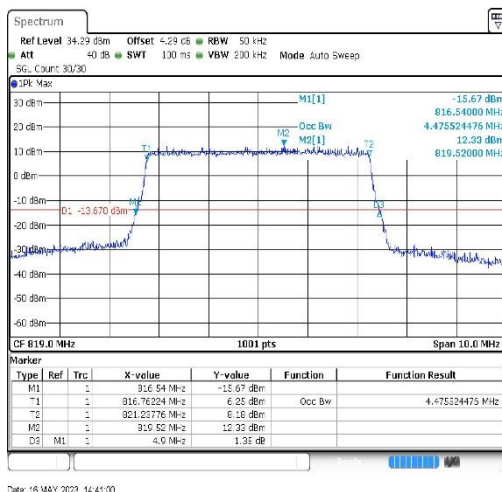
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Band26-5MHz-64QAM-26715-25RB#0-4.476



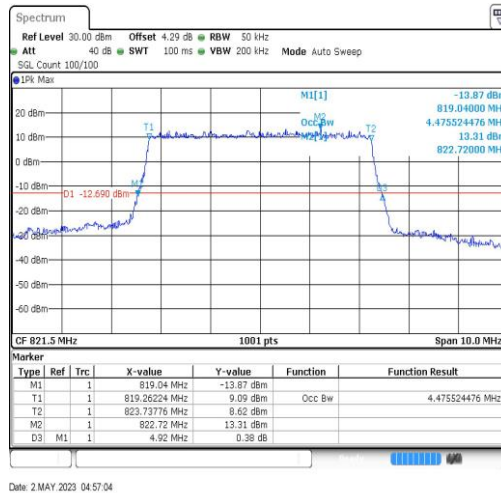
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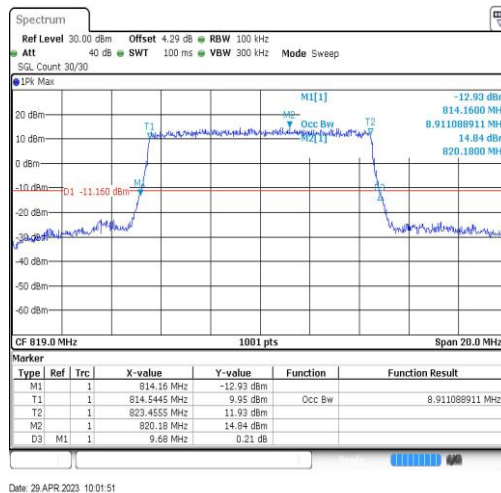
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Band26-5MHz-64QAM-26765-25RB#0-4.476



Band26-10MHz-QPSK-26740-50RB#0-8.911

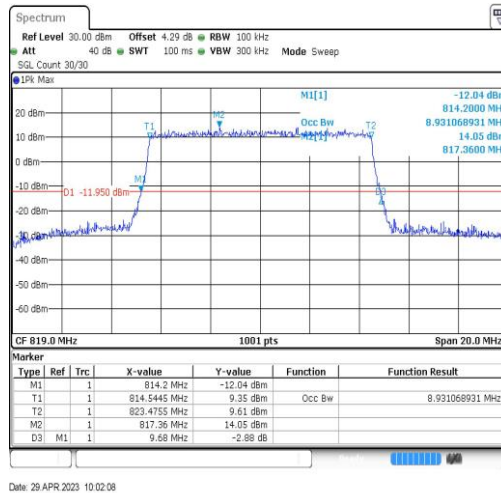


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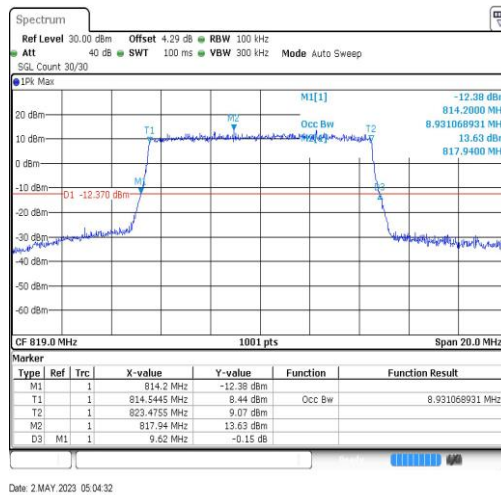
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Band26-10MHz-16QAM-26740-50RB#0-8.931



Band26-10MHz-64QAM-26740-50RB#0-8.931



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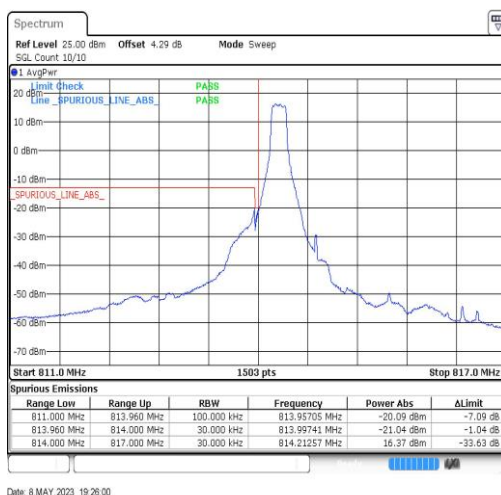
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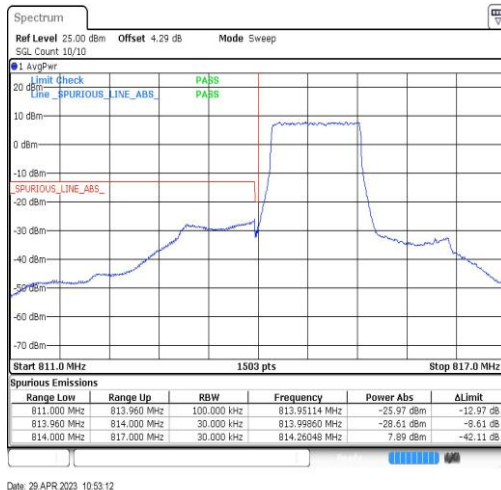


Band Edge

Test Graphs

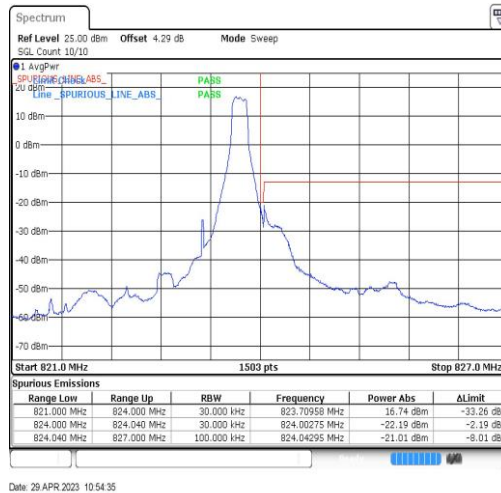


Band26-1.4MHz-QPSK-26697-1RB#0

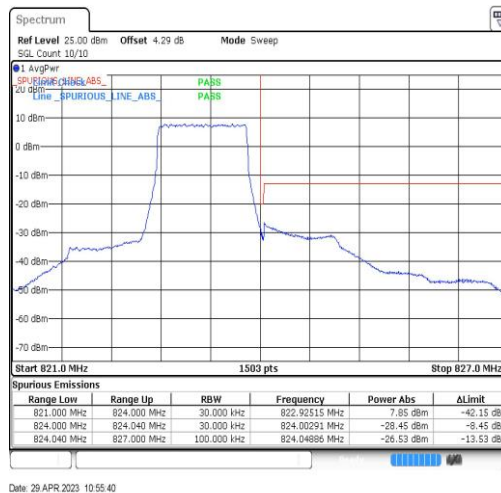


Band26-1.4MHz-QPSK-26697-6RB#0





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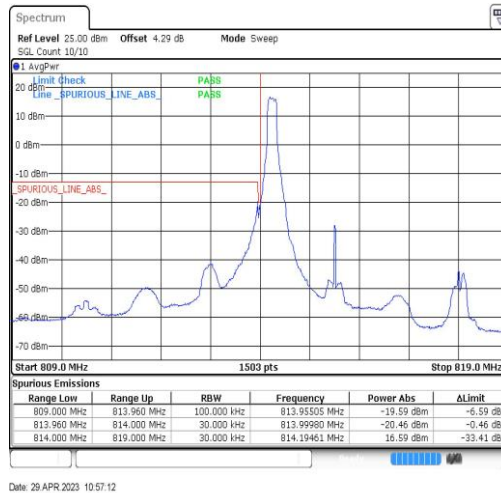
Band26-1.4MHz-QPSK-26783-6RB#0



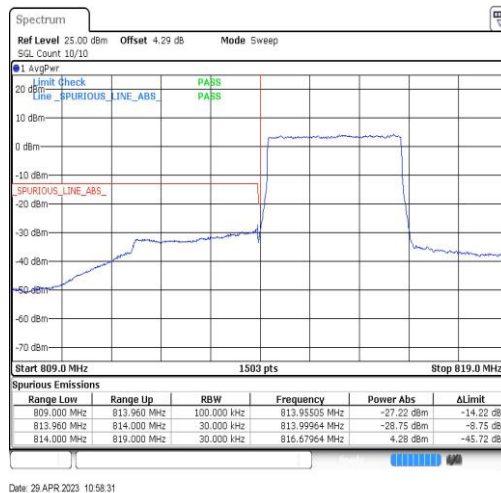
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Band26-3MHz-QPSK-26705-1RB#0



Band26-3MHz-QPSK-26705-15RB#0



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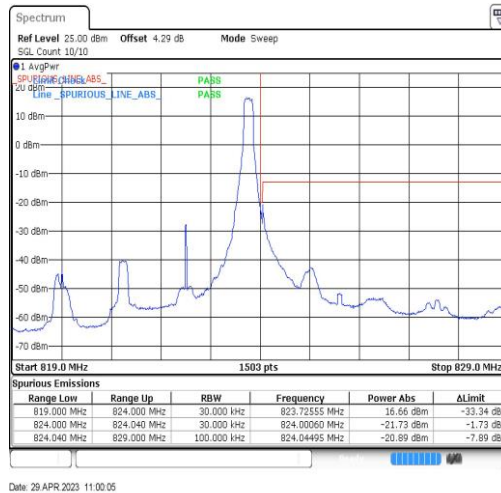
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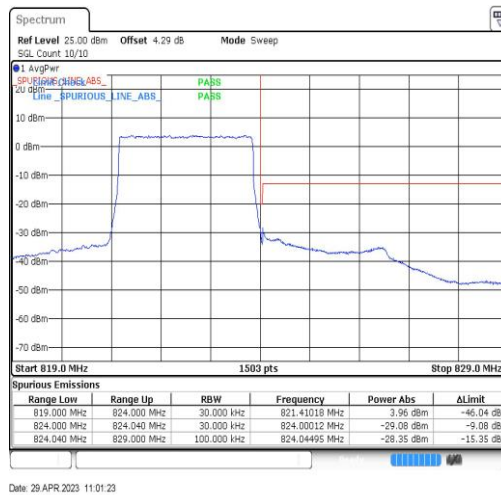
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Band26-3MHz-QPSK-26775-1RB#14



Band26-3MHz-QPSK-26775-15RB#0



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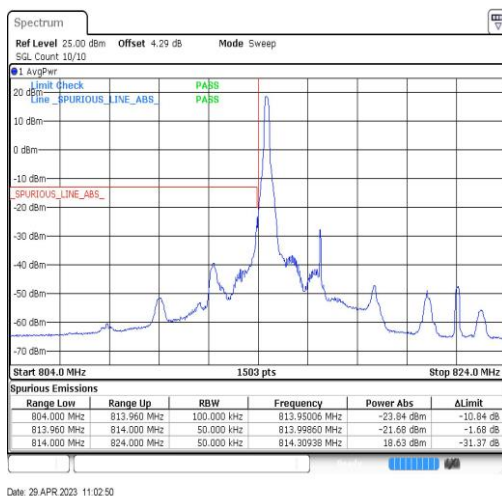
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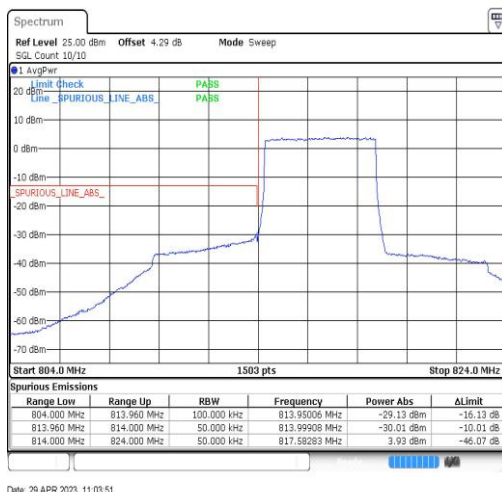
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Band26-5MHz-QPSK-26715-1RB#0



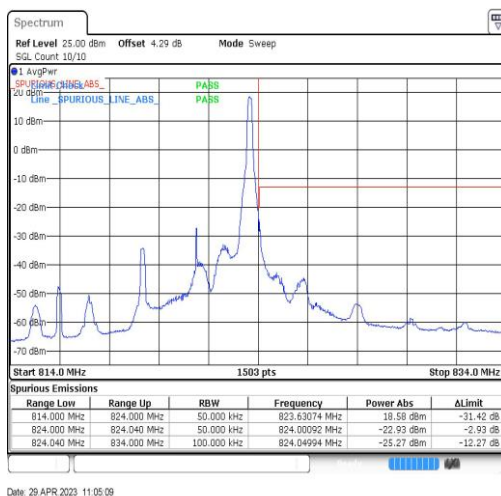
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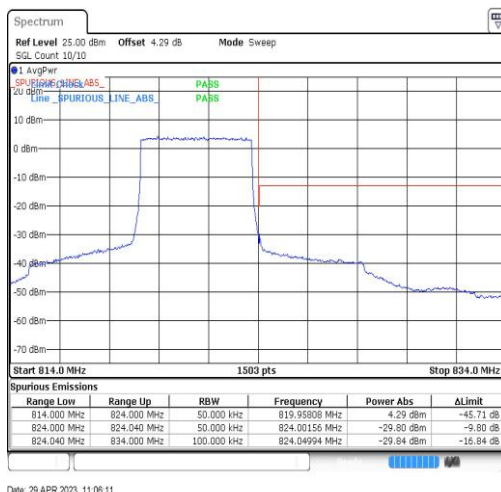
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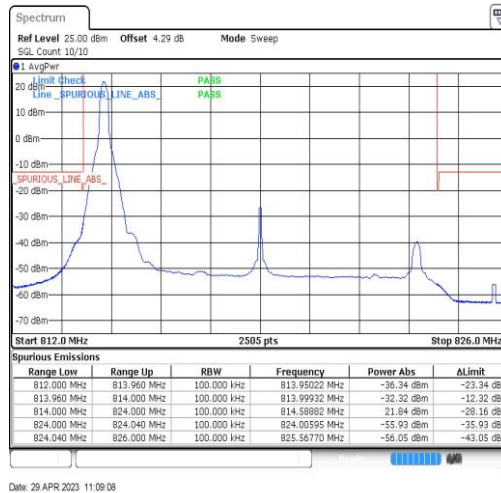


Band26-5MHz-QPSK-26765-1RB#24

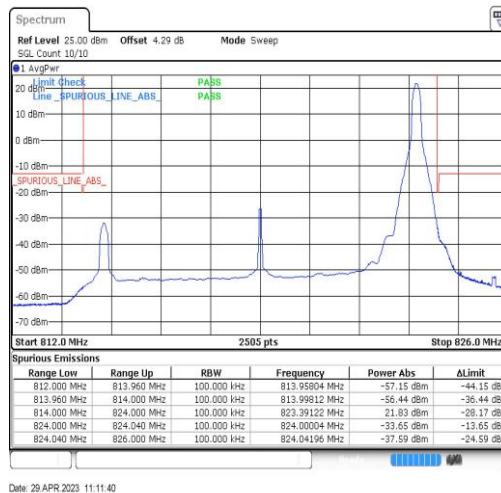


Band26-5MHz-QPSK-26765-25RB#0





Band26-10MHz-QPSK-26740-1RB#0



Band26-10MHz-QPSK-26740-1RB#49



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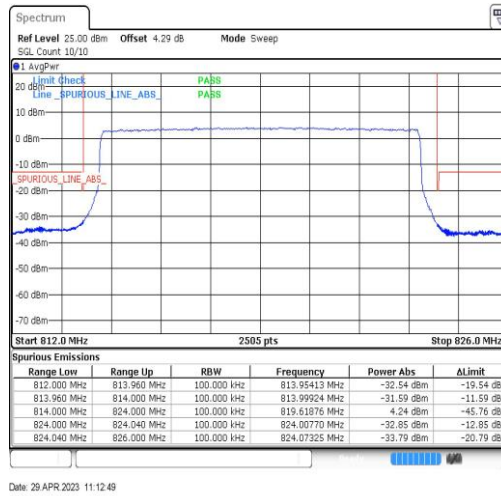
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Band26-10MHz-QPSK-26740-50RB#0



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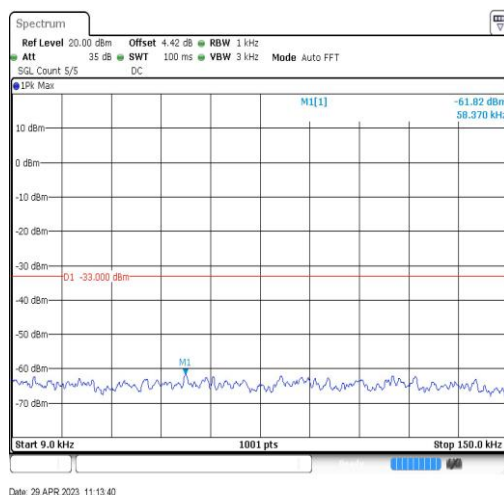
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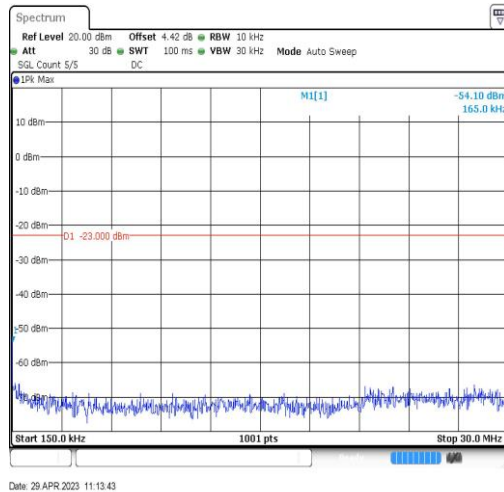


Conducted Spurious Emission

Test Graphs



Band26-10MHz-QPSK-26740-1RB#0-Range1:0.009~0.15MHz



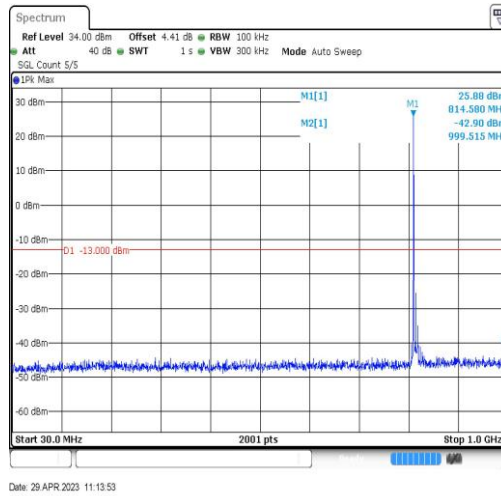
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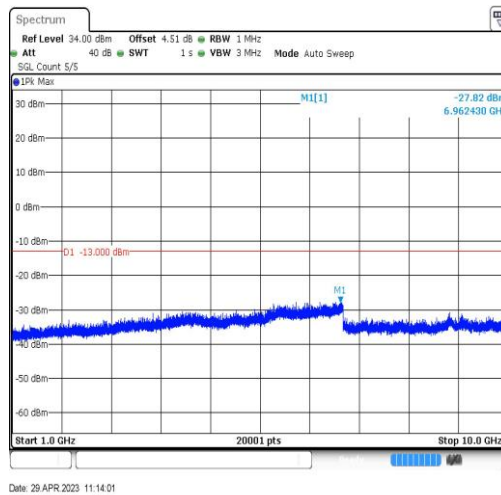
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Band26-10MHz-QPSK-26740-1RB#0-Range3:30~1000MHz



Band26-10MHz-QPSK-26740-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_26 ANT 13_TM1

Test Channel = 10MHz-MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1647.3309	48.50	-47.52	25.48	-68.80	-13.00	55.80	325	34	Horizontal
2	2443.9305	51.39	-46.65	27.58	-62.94	-13.00	49.94	266	194	Horizontal
3	3731.1866	48.88	-44.64	29.49	-61.53	-13.00	48.53	218	81	Horizontal
4	5049.3525	47.44	-42.62	31.59	-58.85	-13.00	45.85	226	134	Horizontal
5	7686.0343	44.57	-37.73	36.74	-51.68	-13.00	38.68	216	166	Horizontal
6	9902.3451	42.98	-35.02	38.60	-48.70	-13.00	35.70	238	33	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.0825	48.58	-47.50	25.42	-68.76	-13.00	55.76	328	286	Vertical
2	2443.6805	51.36	-46.64	27.57	-62.97	-13.00	49.97	222	348	Vertical
3	3050.7525	47.77	-45.22	28.80	-63.91	-13.00	50.91	264	215	Vertical
4	3932.4466	48.40	-44.19	29.83	-61.22	-13.00	48.22	216	97	Vertical
5	5596.4298	47.22	-41.45	32.57	-56.92	-13.00	43.92	284	92	Vertical
6	7419.671	45.14	-38.28	36.74	-51.66	-13.00	38.66	269	113	Vertical



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Test Band = LTE_26 ANT 31_TM1

Test Channel = 10MHz-MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.0786	52.52	-47.56	25.33	-64.97	-13.00	51.97	315	201	Horizontal
2	2361.9202	47.97	-46.62	27.55	-66.36	-13.00	53.36	299	327	Horizontal
3	3917.0459	48.64	-44.19	29.77	-61.04	-13.00	48.04	278	206	Horizontal
4	5619.881	47.24	-41.38	32.56	-56.84	-13.00	43.84	213	264	Horizontal
5	7864.8932	44.73	-37.63	36.71	-51.45	-13.00	38.45	291	78	Horizontal
6	9899.195	42.96	-34.97	38.59	-48.68	-13.00	35.68	262	221	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1644.8306	48.69	-47.53	25.46	-68.64	-13.00	55.64	310	167	Vertical
2	2575.697	47.63	-46.30	27.85	-66.08	-13.00	53.08	288	280	Vertical
3	3904.7952	48.77	-44.20	29.72	-60.97	-13.00	47.97	297	291	Vertical
4	5604.1302	47.06	-41.43	32.59	-57.04	-13.00	44.04	143	317	Vertical
5	7472.5236	44.82	-38.29	36.85	-51.88	-13.00	38.88	134	270	Vertical
6	9896.0448	42.76	-34.99	38.57	-48.92	-13.00	35.92	154	39	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	0.70	0.000855	PASS
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-1.10	-0.001343	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	0.90	0.001099	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	0.60	0.000733	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	0.90	0.001099	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-2.70	-0.003297	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-0.10	-0.000122	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-0.70	-0.000855	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	2.10	0.002564	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	1.00	0.001221	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-2.30	-0.002808	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	0.40	0.000488	PASS

---End of Attachment---



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