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# Appendix B.4

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.69	21.65	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.77	21.73	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.68	21.64	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.75	20.71	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.51	21.47	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.68	21.64	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.55	21.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.60	20.56	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.39	21.35	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.55	21.51	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.39	21.35	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.48	20.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.75	20.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.98	20.94	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.79	20.75	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.82	19.78	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.66	20.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.76	20.72	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.65	20.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.40	19.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.50	20.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.74	20.70	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.50	20.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.54	19.50	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.72	21.68	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.71	21.67	38.45	PASS



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Band5	3MHz	QPSK	20415	1RB#14	22.72	21.68	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.67	20.63	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.55	21.51	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.58	21.54	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.54	21.50	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.49	20.45	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.43	21.39	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.45	21.41	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.48	21.44	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.42	20.38	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.86	20.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.86	20.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.85	20.81	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.70	19.66	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.75	20.71	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.66	20.62	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.64	20.60	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.52	19.48	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.63	20.59	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.60	20.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.62	20.58	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.47	19.43	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.69	21.65	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.84	21.80	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.70	21.66	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.71	20.67	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.52	21.48	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.68	21.64	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.53	21.49	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.53	20.49	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.43	21.39	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.58	21.54	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.44	21.40	38.45	PASS



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Band5	5MHz	QPSK	20625	25RB#0	21.49	20.45	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.70	20.66	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.84	20.80	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.68	20.64	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.78	19.74	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.73	20.69	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.84	20.80	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.66	20.62	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.55	19.51	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.41	20.37	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.54	20.50	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.44	20.40	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.53	19.49	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.68	21.64	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.78	21.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.57	21.53	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.72	20.68	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.54	21.50	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.64	21.60	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.53	21.49	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.59	20.55	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.40	21.36	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.45	21.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.47	21.43	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.48	20.44	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.84	20.80	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.88	20.84	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.73	20.69	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.70	19.66	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.70	20.66	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.76	20.72	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.71	20.67	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.66	19.62	38.45	PASS



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Band5	10MHz	16QAM	20600	1RB#24	21.65	20.61	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.59	20.55	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.45	19.41	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.44	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.46	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.40	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.18	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.18	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.94	13	PASS



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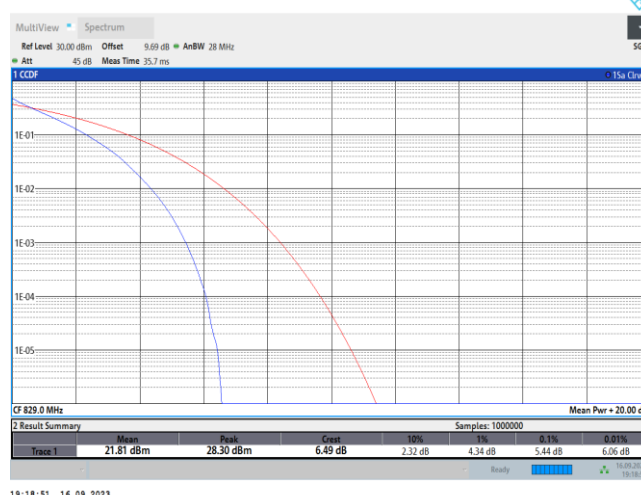
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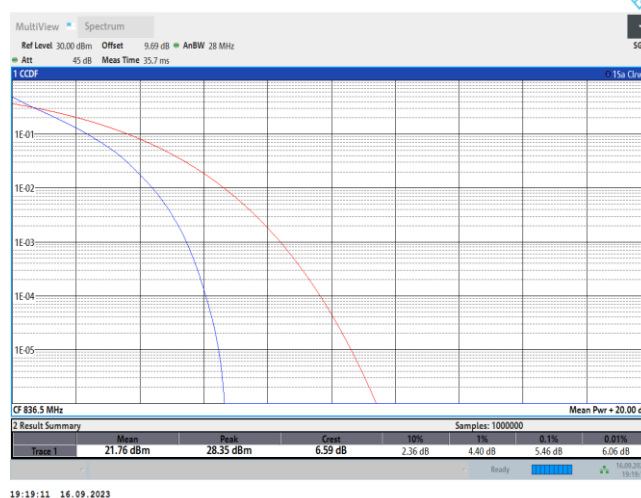
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### Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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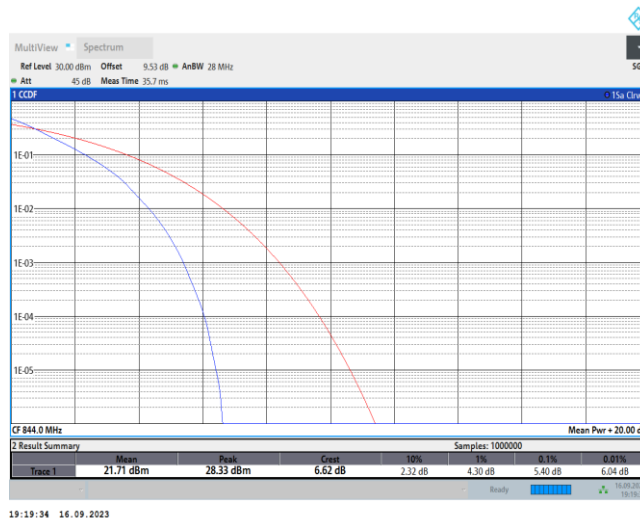
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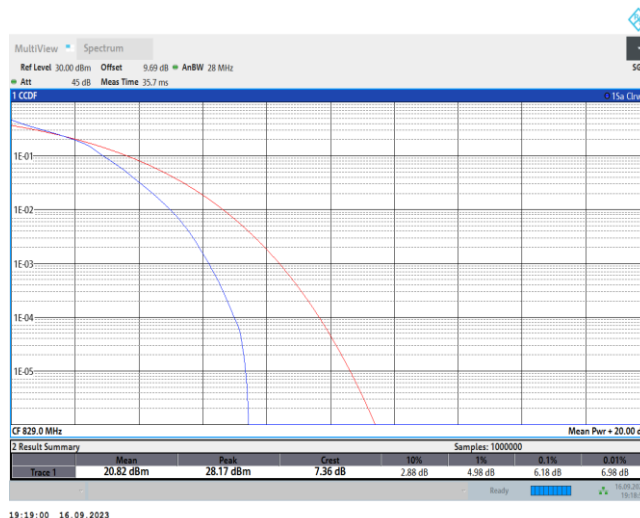
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### Band5-10MHz-QPSK-20600-50RB#0



### Band5-10MHz-16QAM-20450-50RB#0



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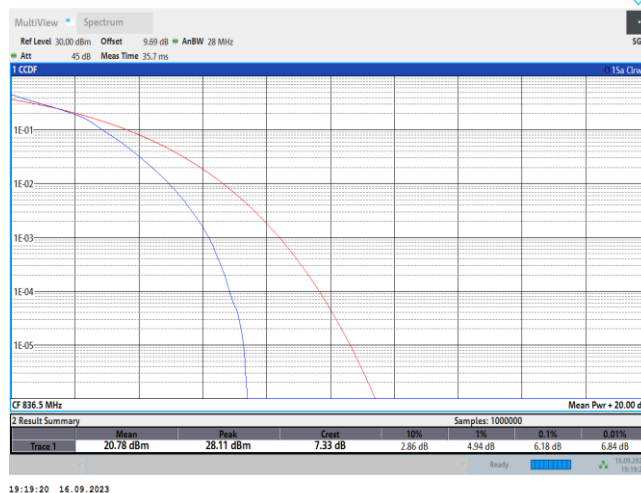


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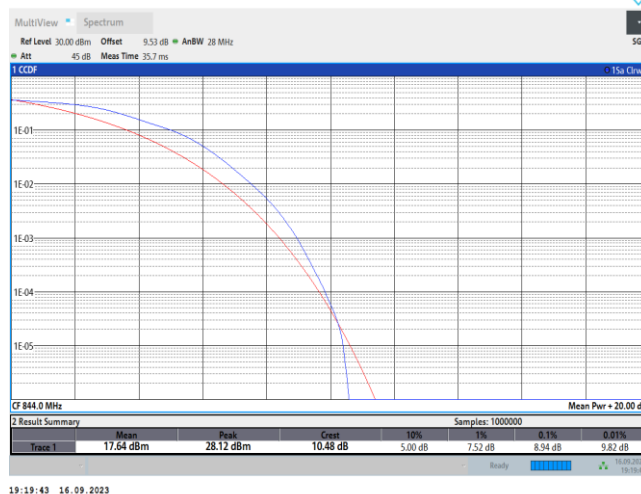
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### Band5-10MHz-16QAM-20525-50RB#0



19:19:20 16.09.2023

### Band5-10MHz-16QAM-20600-50RB#0



19:19:43 16.09.2023



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## 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	1.085	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.085	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.098	1.31	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.686	2.89	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.90	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.688	2.87	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.676	2.88	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.678	2.90	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.90	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.486	4.97	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.483	4.98	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	5.35	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	5.01	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.484	4.99	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.489	5.01	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.973	9.50	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.968	9.46	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.943	9.66	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.923	9.64	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.913	9.56	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.919	9.82	PASS



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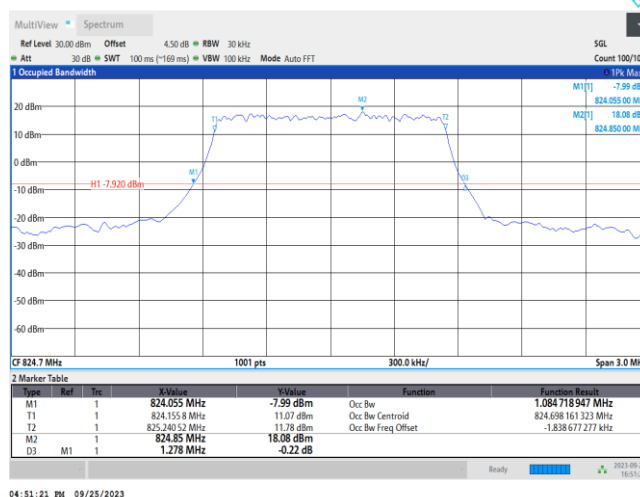
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## Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0

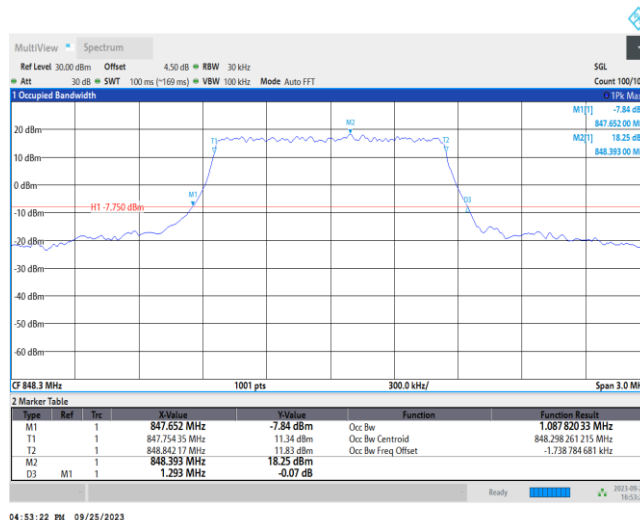


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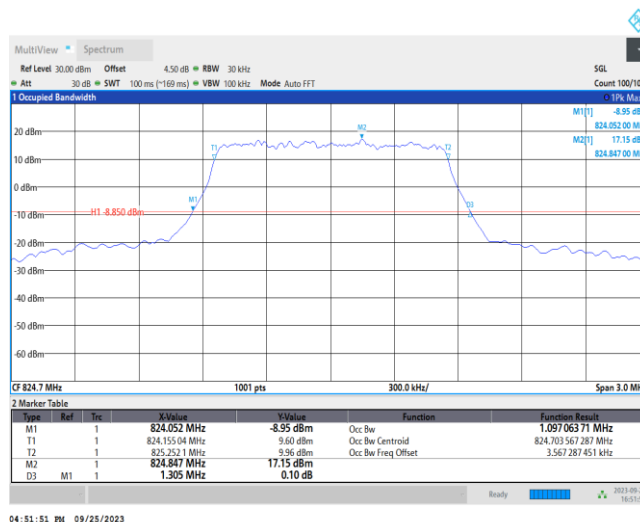
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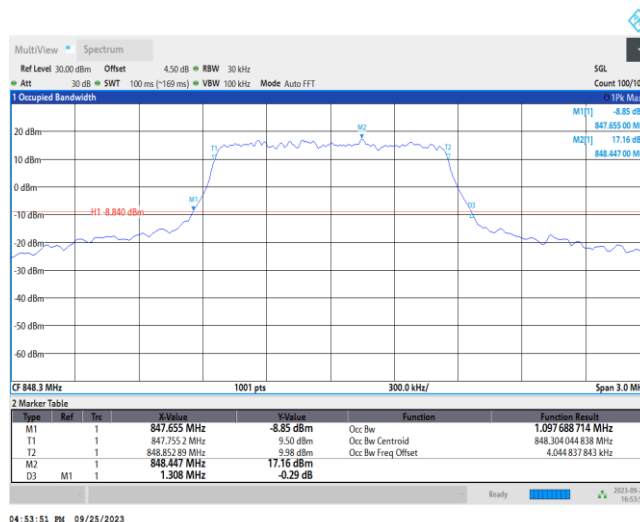
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Band5-1.4MHz-16QAM-20525-6RB#0



## Band5-1.4MHz-16QAM-20643-6RB#0



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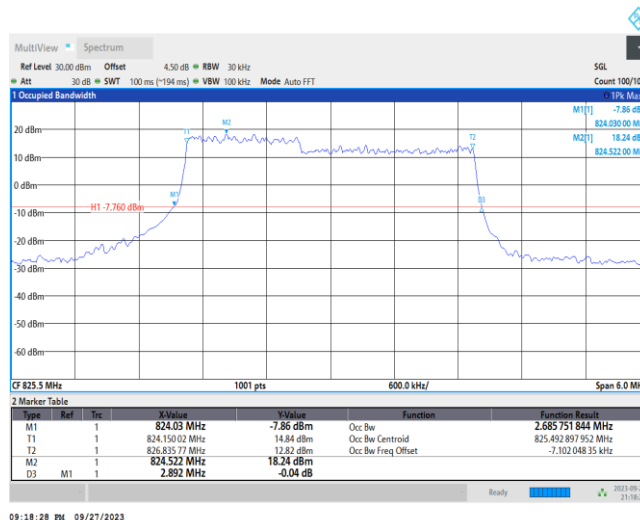


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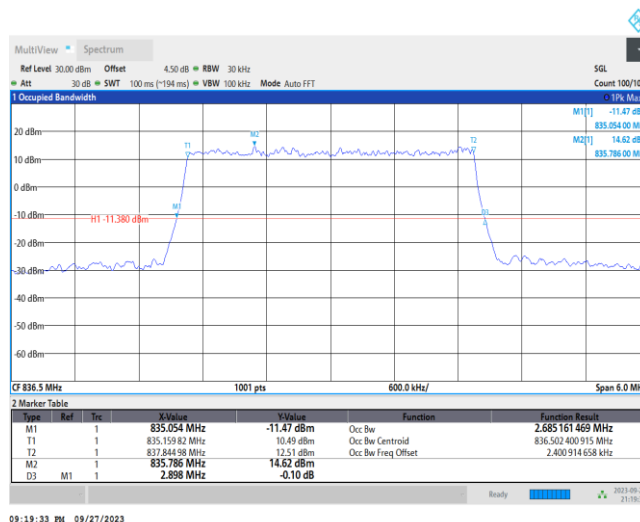
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### Band5-3MHz-QPSK-20415-15RB#0



### Band5-3MHz-QPSK-20525-15RB#0



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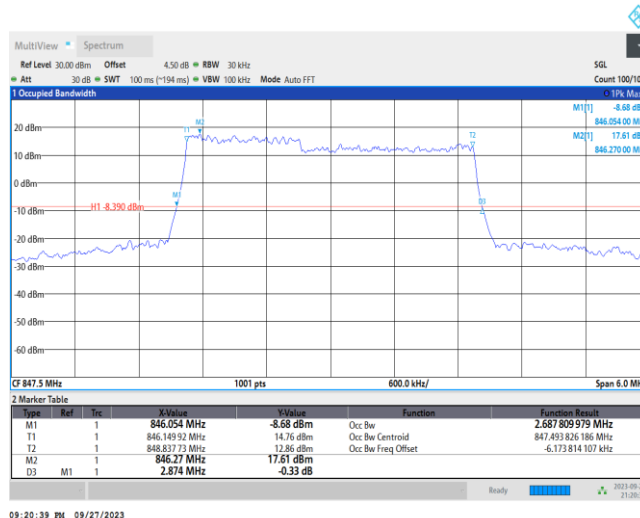
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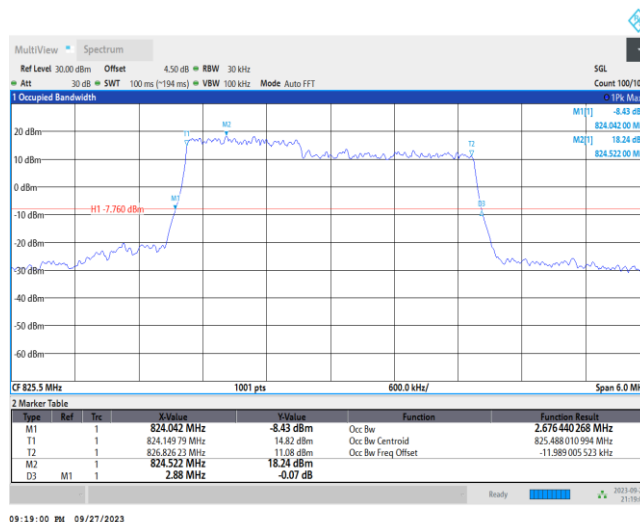
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## Band5-3MHz-QPSK-20635-15RB#0



## Band5-3MHz-16QAM-20415-15RB#0



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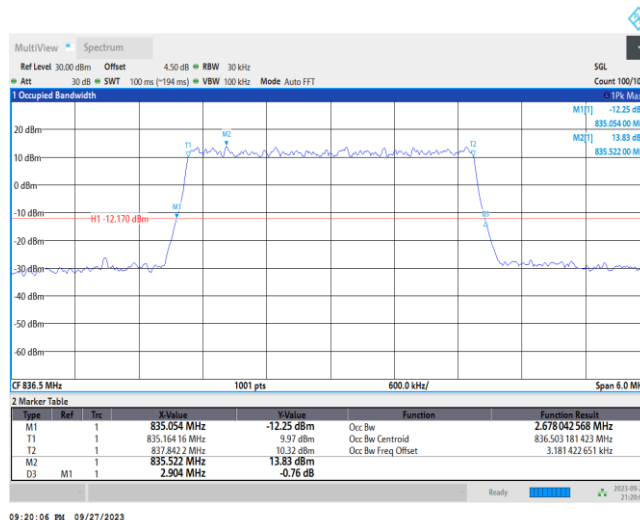
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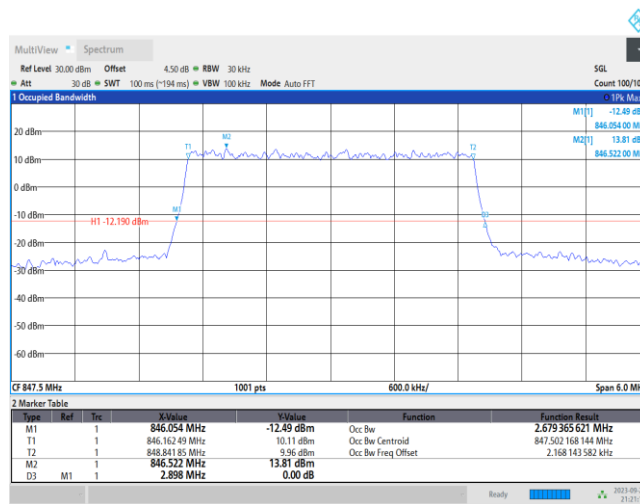
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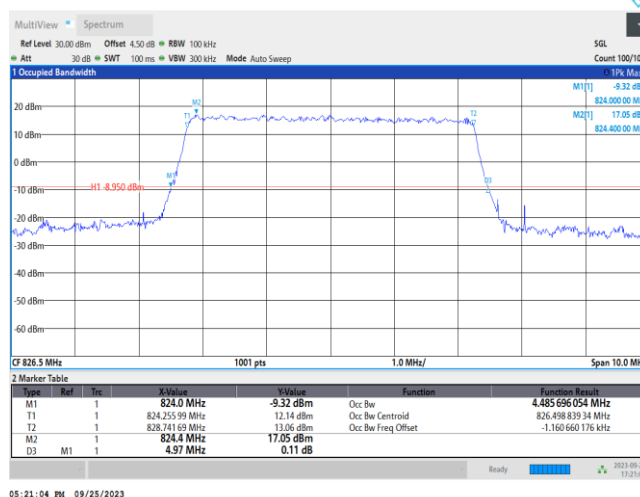
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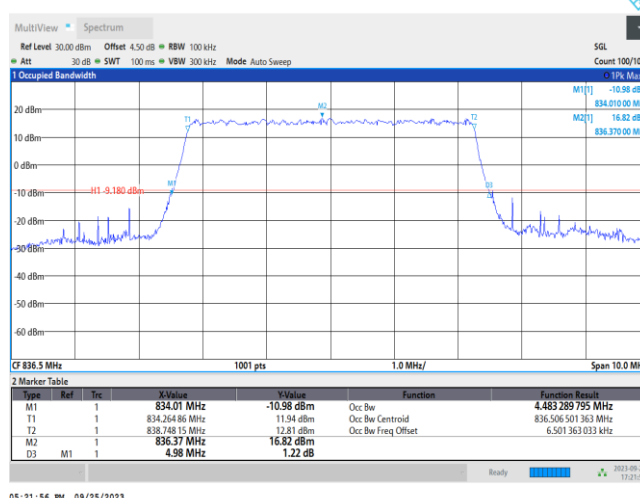
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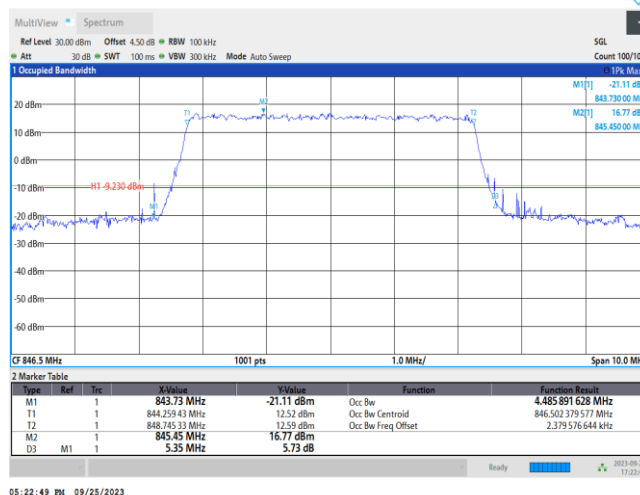
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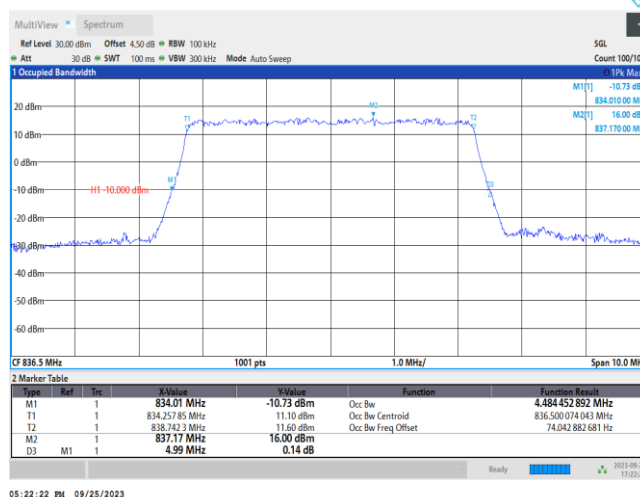


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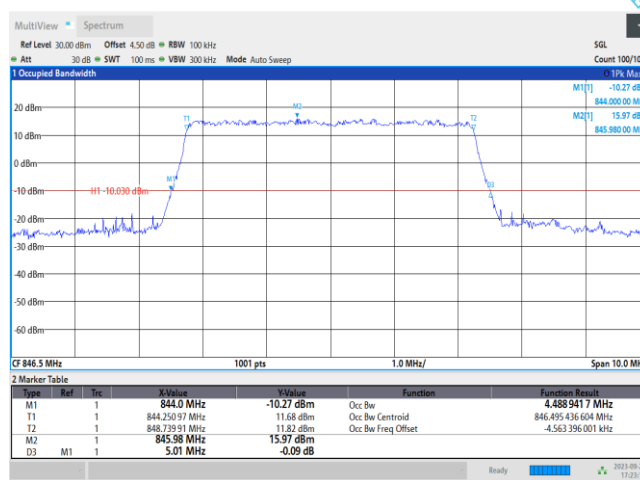
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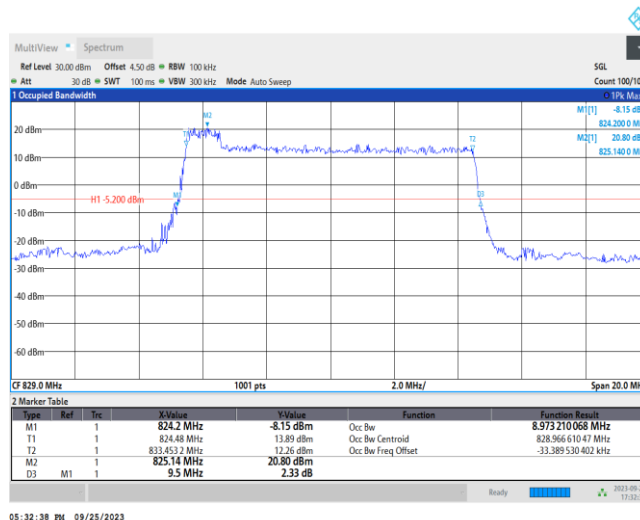
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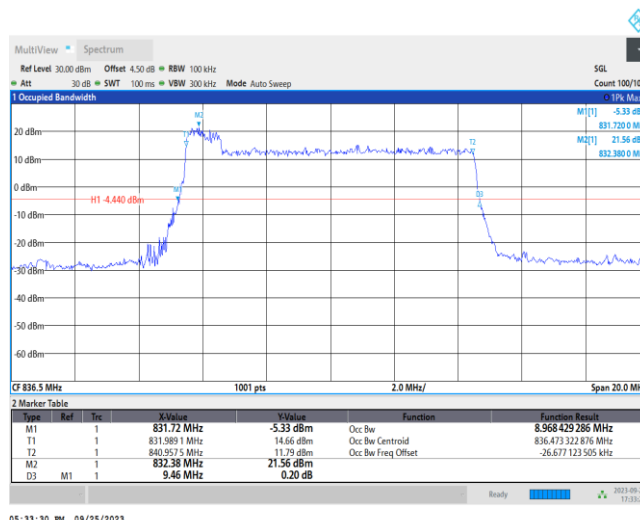
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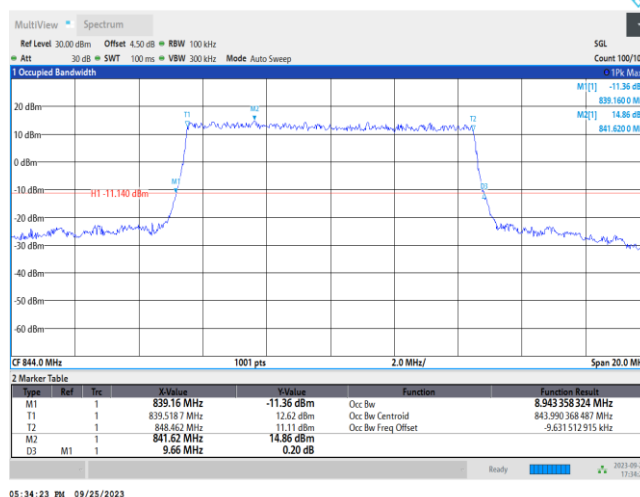
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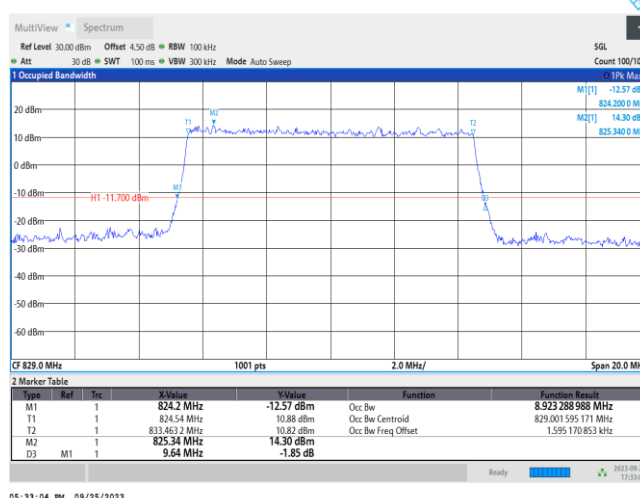
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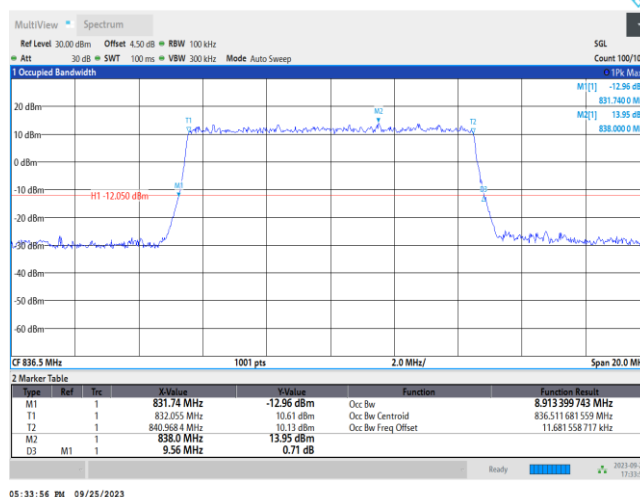
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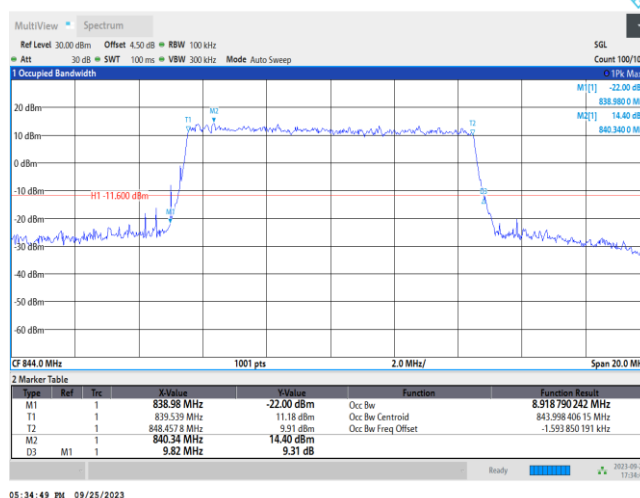
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### Band5-10MHz-16QAM-20600-50RB#0



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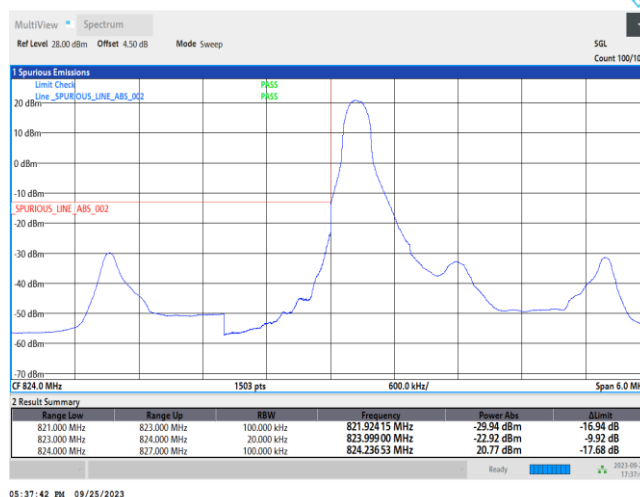
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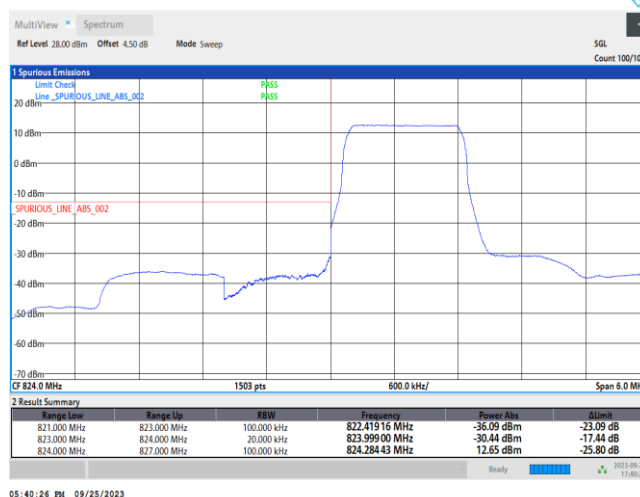
## Band Edge

## Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0



Band5-1.4MHz-QPSK-20407-6RB#0



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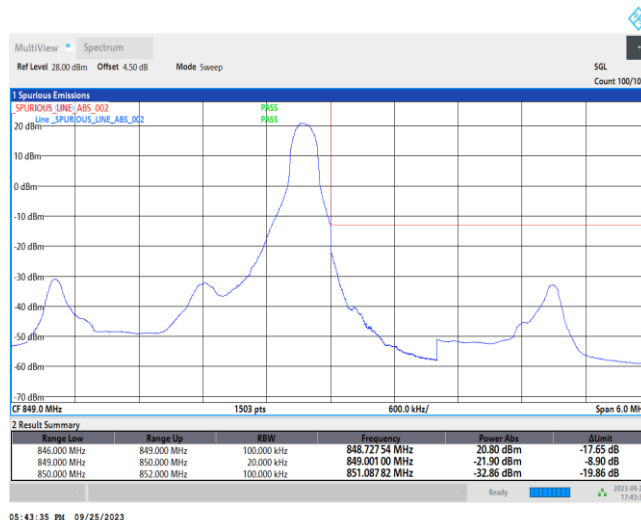


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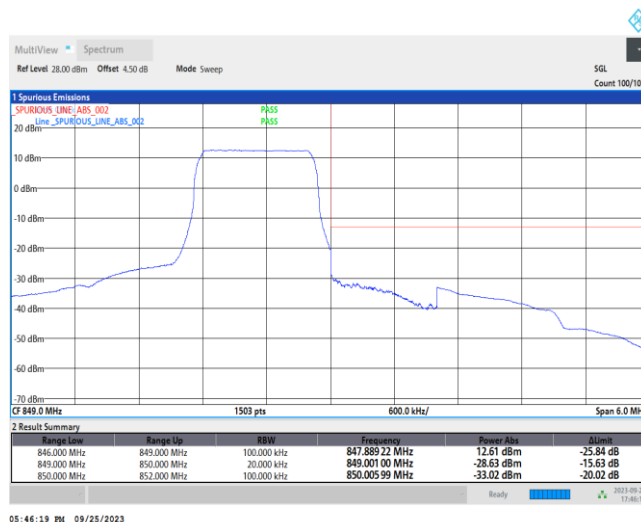
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### Band5-1.4MHz-QPSK-20643-1RB#5



### Band5-1.4MHz-QPSK-20643-6RB#0



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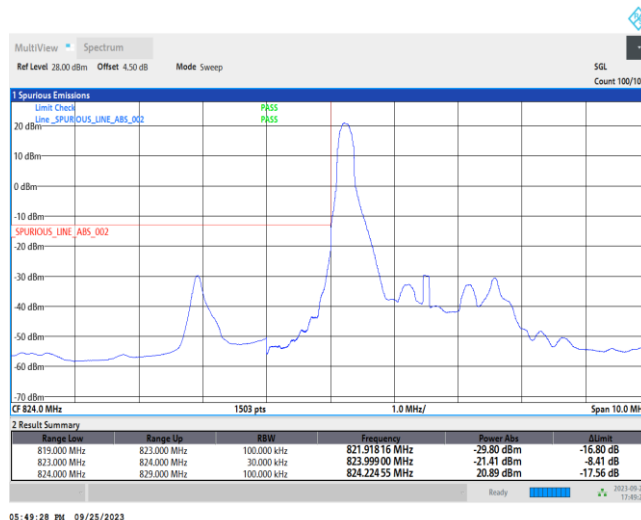
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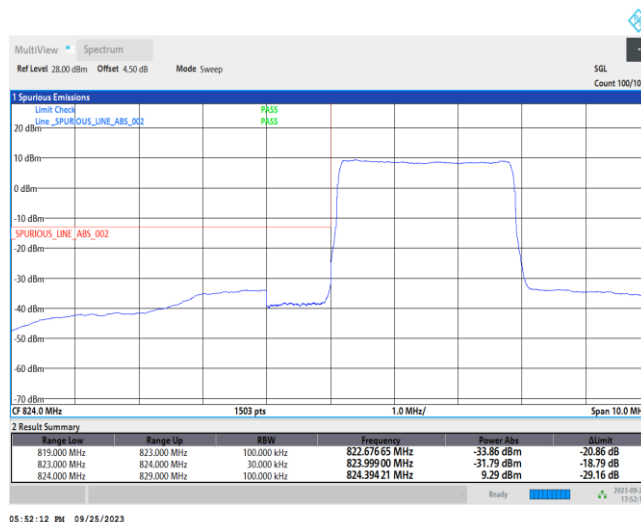
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## Band5-3MHz-QPSK-20415-1RB#0



## Band5-3MHz-QPSK-20415-15RB#0

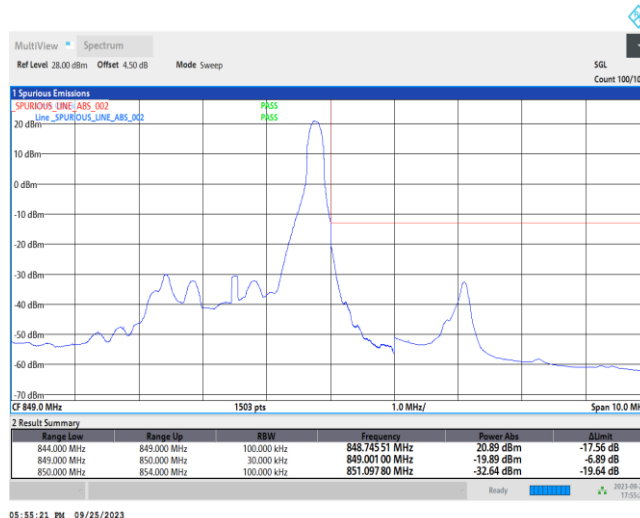


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### Band5-3MHz-QPSK-20635-1RB#14



### Band5-3MHz-QPSK-20635-15RB#0



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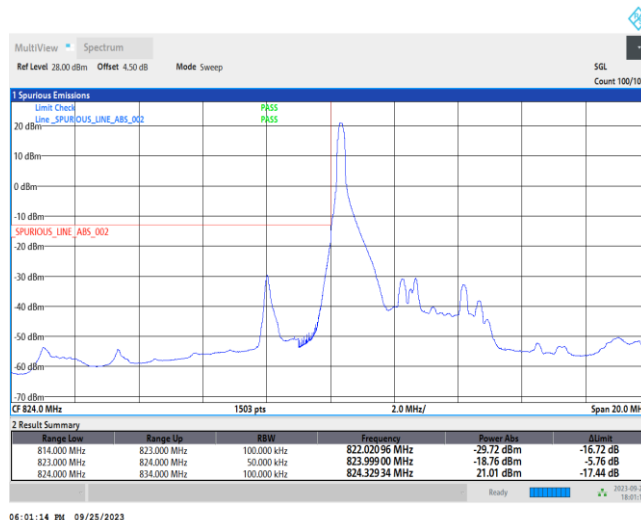
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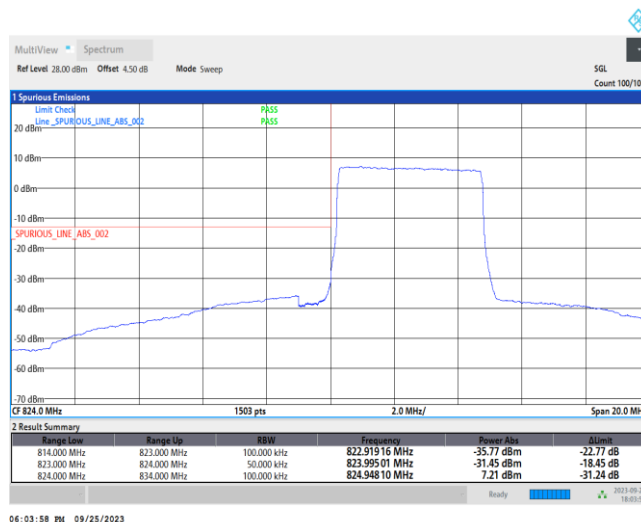
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### Band5-5MHz-QPSK-20425-1RB#0



### Band5-5MHz-QPSK-20425-25RB#0



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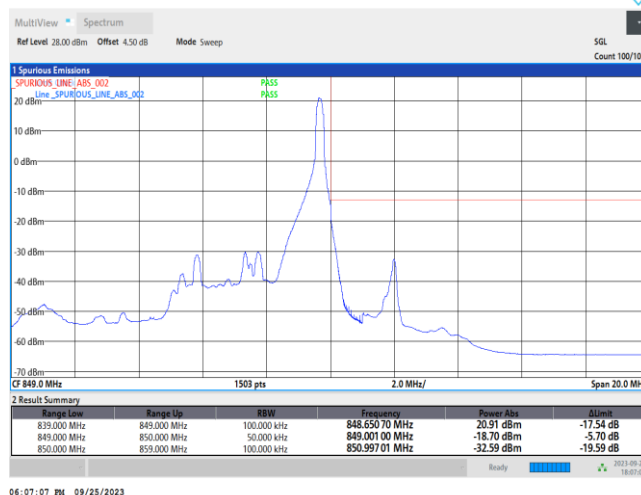


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## Band5-5MHz-QPSK-20625-1RB#24



## Band5-5MHz-QPSK-20625-25RB#0



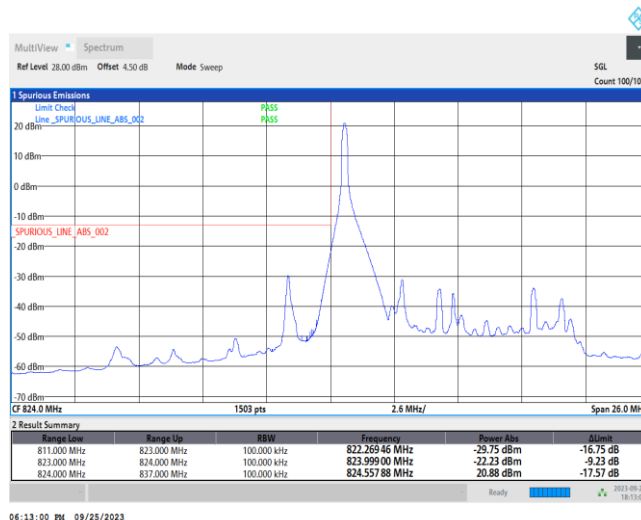


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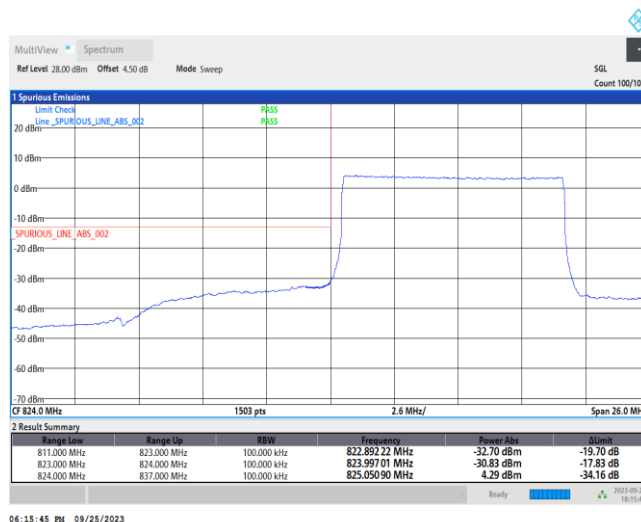
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## Band5-10MHz-QPSK-20450-1RB#0



## Band5-10MHz-QPSK-20450-50RB#0



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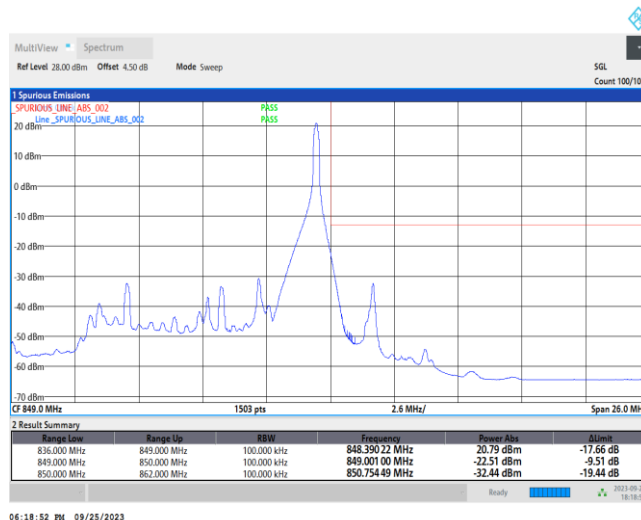
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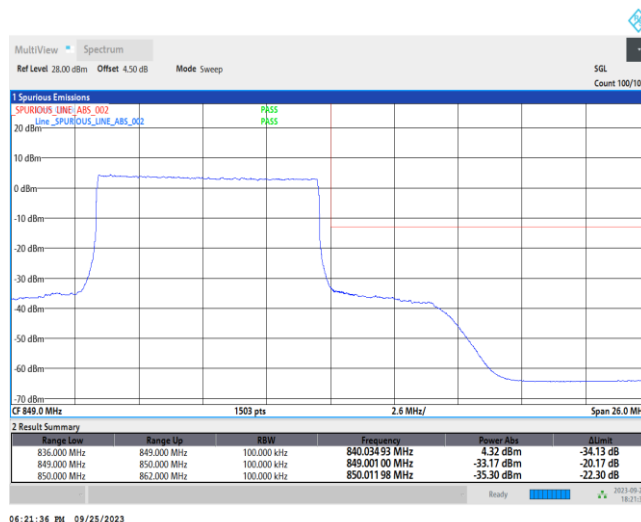
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## Band5-10MHz-QPSK-20600-1RB#49



## Band5-10MHz-QPSK-20600-50RB#0



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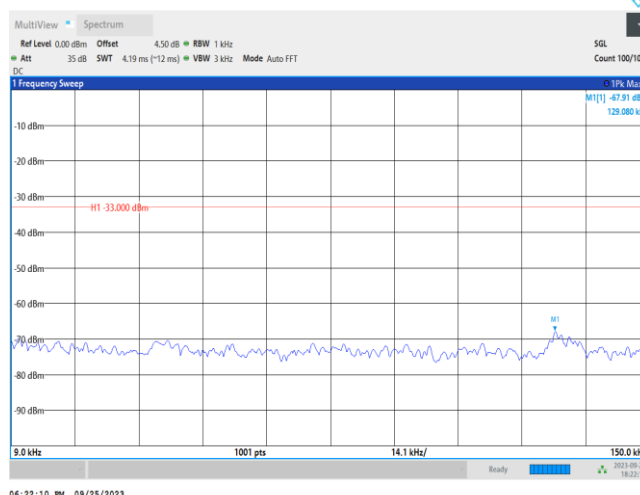
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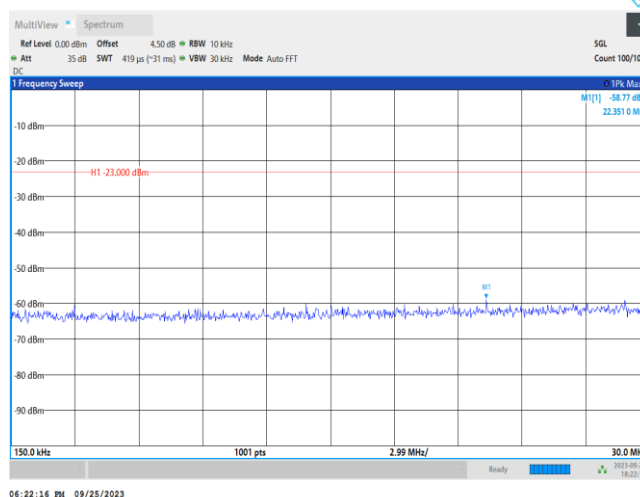
## Conducted Spurious Emission

### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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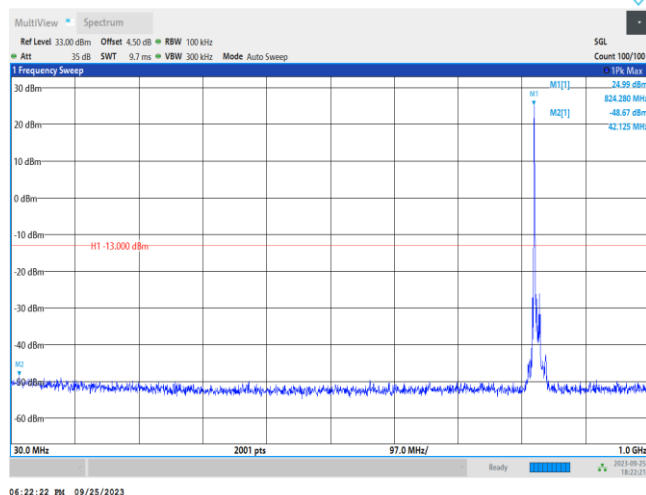
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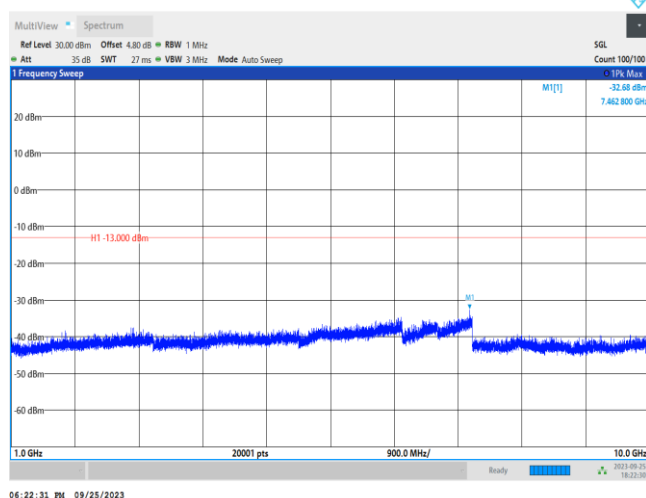
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## Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



## Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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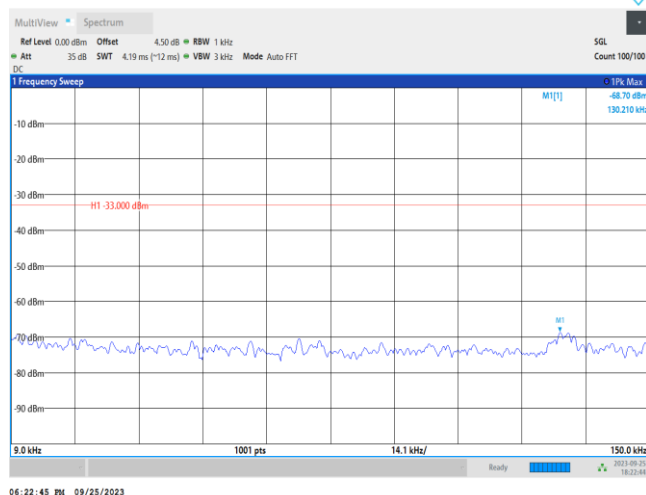
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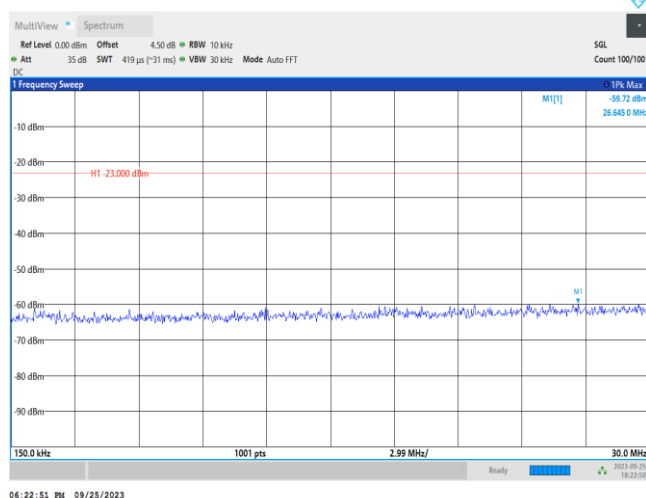
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## Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



## Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz

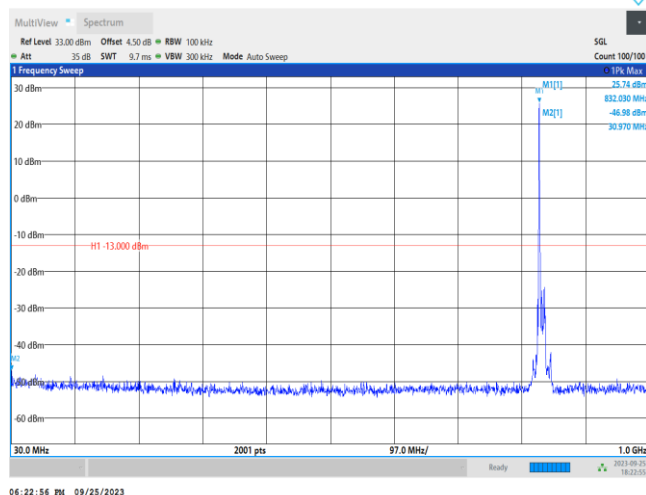


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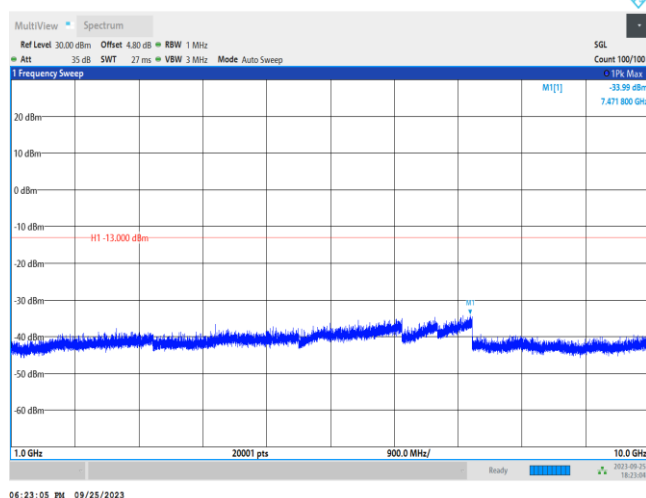
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### Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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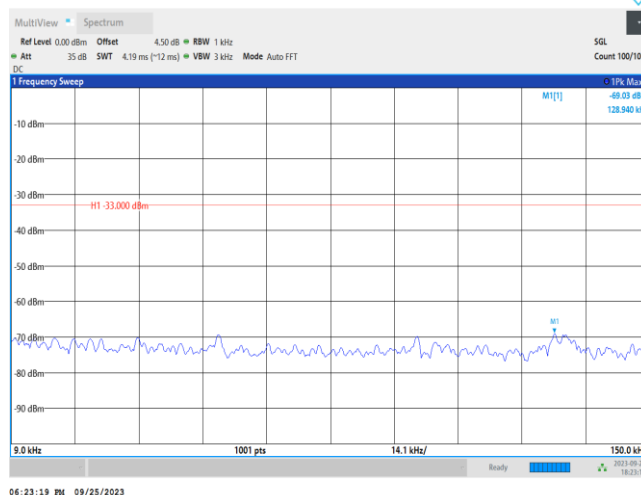


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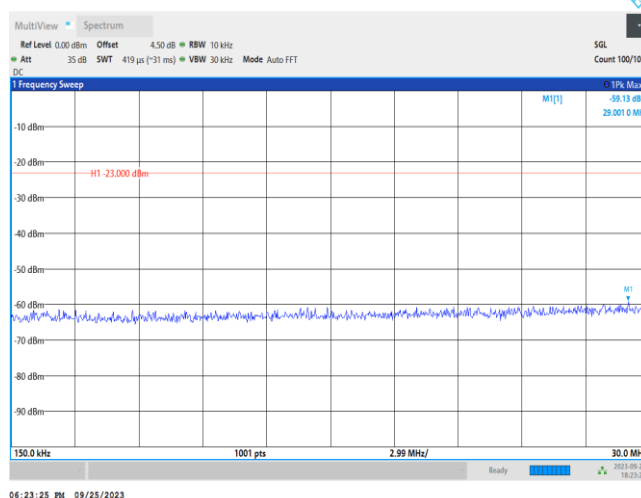
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### Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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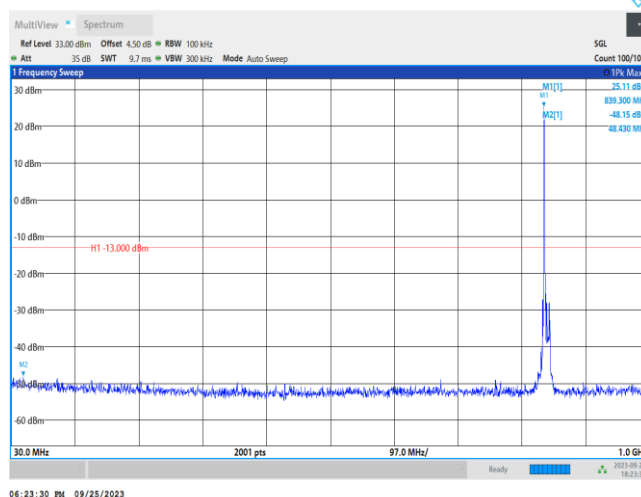
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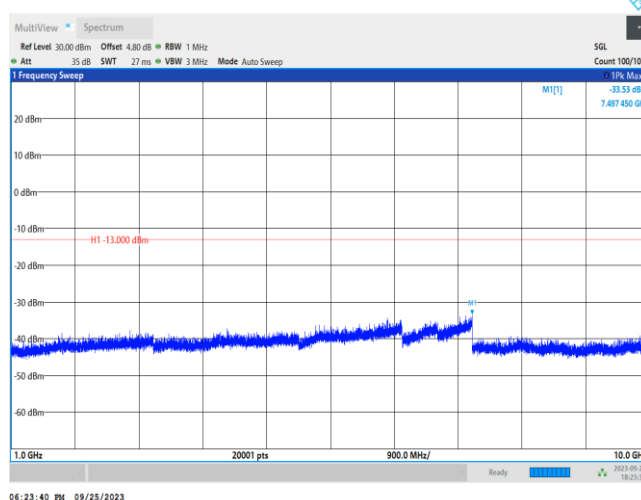
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### Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE\_5

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.02	-47.24	24.13	-63.35	-13.00	50.35	Horizontal
2	1649	52.08	-47.52	25.49	-65.21	-13.00	52.21	Horizontal
3	2681.5	57.75	-46.18	27.96	-55.73	-13.00	42.73	Horizontal
4	5524.5	50.08	-41.87	32.30	-54.75	-13.00	41.75	Horizontal
5	7402.5	43.57	-38.35	36.71	-53.33	-13.00	40.33	Horizontal
6	9910.5	41.87	-35.33	38.61	-50.11	-13.00	37.11	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.43	-47.24	24.13	-62.94	-13.00	49.94	Vertical
2	1649	50.52	-47.52	25.49	-66.77	-13.00	53.77	Vertical
3	2046.5	54.89	-46.90	26.31	-60.96	-13.00	47.96	Vertical
4	2540.5	55.31	-46.48	27.80	-58.63	-13.00	45.63	Vertical
5	5524.5	48.39	-41.87	32.30	-56.44	-13.00	43.44	Vertical
6	9911.5	41.73	-35.33	38.61	-50.25	-13.00	37.25	Vertical



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Test Band = LTE\_5

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.37	-47.24	24.13	-63.00	-13.00	50.00	Horizontal
2	2046.5	54.57	-46.90	26.31	-61.28	-13.00	48.28	Horizontal
3	2752.5	53.24	-46.12	28.11	-60.03	-13.00	47.03	Horizontal
4	5524.5	50.44	-41.87	32.30	-54.39	-13.00	41.39	Horizontal
5	7481	43.40	-38.37	36.86	-53.37	-13.00	40.37	Horizontal
6	9937	41.74	-35.43	38.64	-50.31	-13.00	37.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	52.80	-47.24	24.13	-65.57	-13.00	52.57	Vertical
2	2046.5	55.22	-46.90	26.31	-60.63	-13.00	47.63	Vertical
3	2540.5	55.22	-46.48	27.80	-58.72	-13.00	45.72	Vertical
4	3705.5	46.95	-44.52	29.33	-63.50	-13.00	50.50	Vertical
5	5524.5	48.39	-41.87	32.30	-56.44	-13.00	43.44	Vertical
6	9882	41.69	-35.33	38.46	-50.44	-13.00	37.44	Vertical



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Test Band = LTE\_5

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.77	-47.24	24.13	-63.60	-13.00	50.60	Horizontal
2	1679	53.30	-47.47	25.27	-64.16	-13.00	51.16	Horizontal
3	2046.5	54.09	-46.90	26.31	-61.76	-13.00	48.76	Horizontal
4	2681.5	53.84	-46.18	27.96	-59.64	-13.00	46.64	Horizontal
5	5524.5	50.20	-41.87	32.30	-54.63	-13.00	41.63	Horizontal
6	9910.5	41.72	-35.33	38.61	-50.26	-13.00	37.26	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.04	-47.24	24.13	-65.33	-13.00	52.33	Vertical
2	1679	52.32	-47.47	25.27	-65.14	-13.00	52.14	Vertical
3	2046.5	55.08	-46.90	26.31	-60.77	-13.00	47.77	Vertical
4	2540.5	55.79	-46.48	27.80	-58.15	-13.00	45.15	Vertical
5	5524.5	48.99	-41.87	32.30	-55.84	-13.00	42.84	Vertical
6	9905.5	41.71	-35.31	38.61	-50.25	-13.00	37.25	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)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-10.96	-0.013102	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-8.53	-0.010197	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.62	-0.006718	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-10.70	-0.012791	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.81	-0.006946	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-14.03	-0.016772	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.35	-0.002809	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-9.08	-0.010855	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-6.67	-0.007974	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-7.78	-0.009301	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-9.81	-0.011727	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-11.47	-0.013712	±2.5	PASS

---End of Attachment---



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