



Report No.: ZEWM2303000343RG02  
Rev.: 01  
Page: 1 of 56

# Appendix B.5

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.88	17.43	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.77	17.32	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.02	17.57	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.73	16.28	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.63	17.18	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.66	17.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.5	17.05	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.7	16.25	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.07	17.62	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.5	17.05	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.63	17.18	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.89	16.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.3	16.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.23	16.78	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.01	16.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.98	15.53	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.81	16.36	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.96	16.51	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.85	16.4	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.73	15.28	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.85	16.4	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.91	16.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.19	16.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.7	15.25	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.27	15.82	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.93	15.48	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.73	15.28	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.79	14.34	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.68	15.23	38.45	PASS





Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 3 of 56

Band5	1.4MHz	64QAM	20525	1RB#2	21.67	15.22	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.75	15.3	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.58	14.13	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.79	15.34	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.8	15.35	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.79	15.34	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.71	14.26	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.88	17.43	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.96	17.51	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.83	17.38	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.85	16.4	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.49	17.04	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.53	17.08	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.49	17.04	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.59	16.14	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.76	17.31	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.7	17.25	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.75	17.3	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.68	16.23	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.07	16.62	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.3	16.85	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.14	16.69	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.89	15.44	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.72	16.27	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.03	16.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.83	16.38	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.63	15.18	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.91	16.46	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.29	16.84	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.42	15.97	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.74	15.29	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.14	15.69	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.35	15.9	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.91	15.46	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.86	14.41	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.81	15.36	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.9	15.45	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.93	15.48	38.45	PASS



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Rev.: 01

Page: 4 of 56

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Band5	3MHz	64QAM	20635	1RB#0	21.75	15.3	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.89	15.44	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.83	15.38	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.72	14.27	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.76	17.31	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.41	16.96	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.87	17.42	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.8	16.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.55	17.1	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.55	17.1	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.78	17.33	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.63	16.18	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.81	17.36	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.72	17.27	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.73	17.28	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.74	16.29	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.01	16.56	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.03	16.58	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.03	16.58	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.83	15.38	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.04	16.59	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.79	16.34	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.68	16.23	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.65	15.2	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.99	16.54	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.87	16.42	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.38	15.93	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.68	15.23	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.08	15.63	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.82	15.37	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.18	15.73	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.87	14.42	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.93	15.48	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.78	15.33	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.98	15.53	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.74	14.29	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.83	15.38	38.45	PASS



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Rev.: 01

Page: 5 of 56

Band5	5MHz	64QAM	20625	1RB#12	21.99	15.54	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.61	15.16	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.72	14.27	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.08	17.63	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.82	17.37	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.04	17.59	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.85	16.4	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.73	17.28	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.49	17.04	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.91	17.46	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.76	16.31	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.87	17.42	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.45	17	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.87	17.42	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.85	16.4	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.32	16.87	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.79	16.34	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.24	16.79	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.91	15.46	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.97	16.52	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.69	16.24	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.09	16.64	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.8	15.35	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.11	16.66	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.9	16.45	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.15	16.7	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.82	15.37	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.11	15.66	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.93	15.48	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.2	15.75	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.97	14.52	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.95	15.5	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.91	15.46	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.22	15.77	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.7	14.25	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.98	15.53	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.08	15.63	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.17	15.72	38.45	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 6 of 56

Band5	10MHz	64QAM	20600	50RB#0	20.84	14.39	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	5.33	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.84	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.09	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.68	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.94	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.49	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.23	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.35	13	PASS

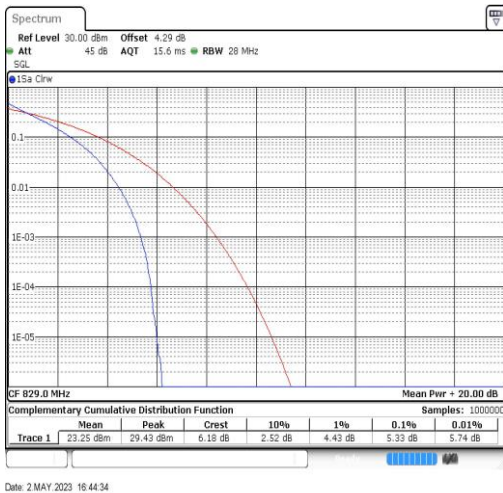


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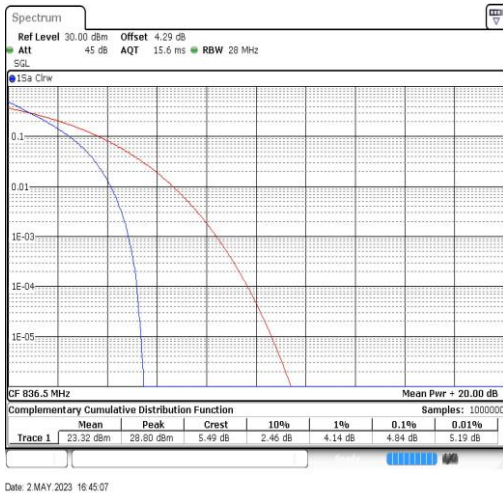
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**Test Graphs**



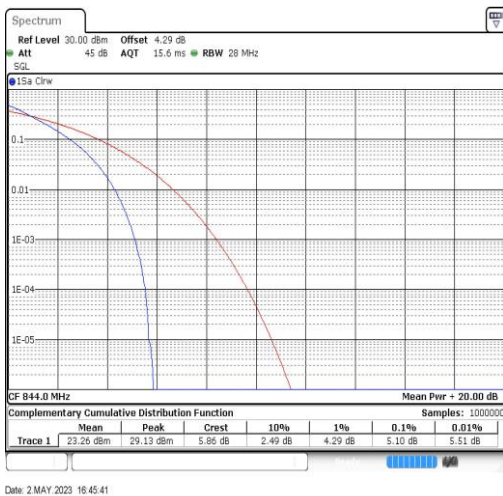
Band5-10MHz-QPSK-20450-50RB#0



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







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

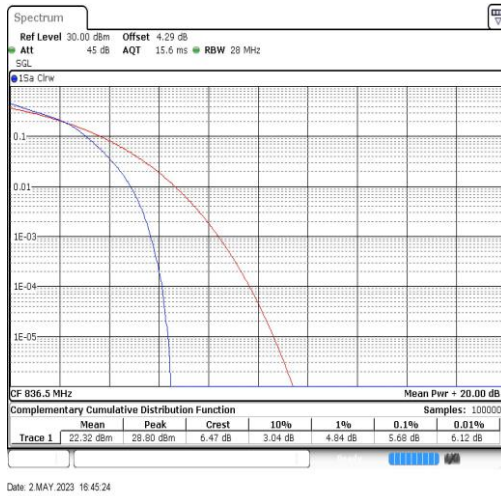


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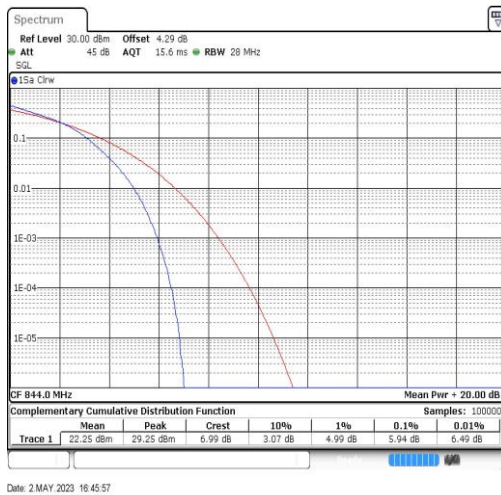


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Band5-10MHz-16QAM-20525-50RB#0



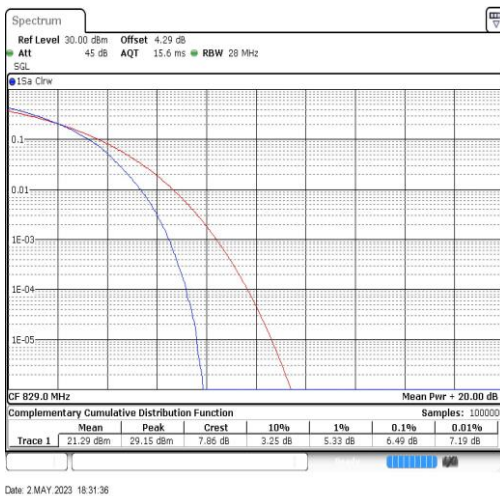
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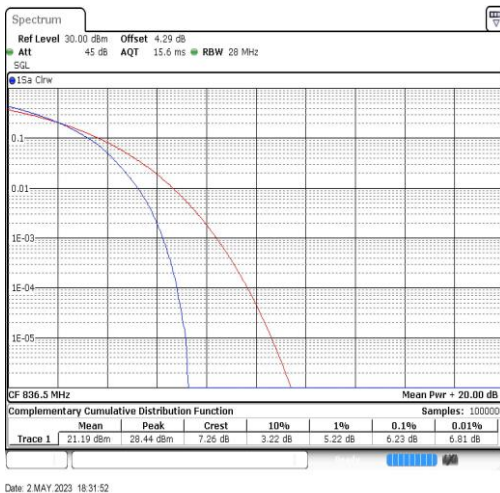
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Band5-10MHz-64QAM-20450-50RB#0



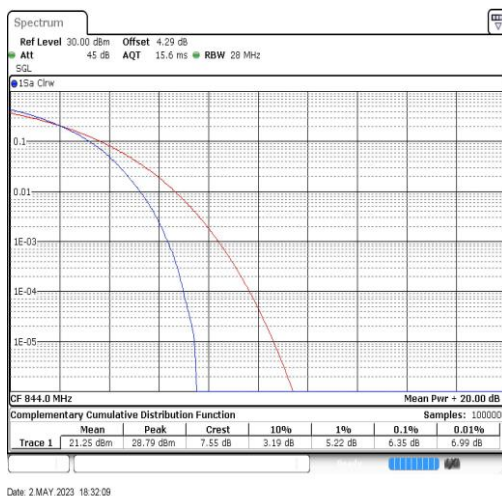
Band5-10MHz-64QAM-20525-50RB#0



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Band5-10MHz-64QAM-20600-50RB#0



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 13 of 56

## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS



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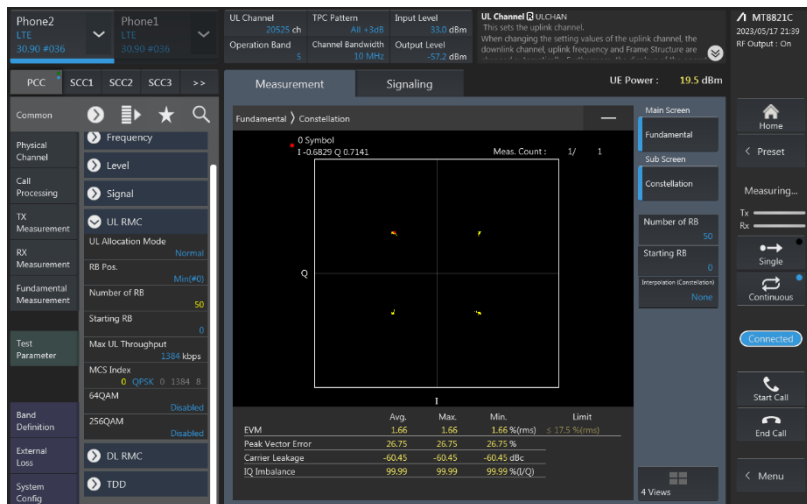
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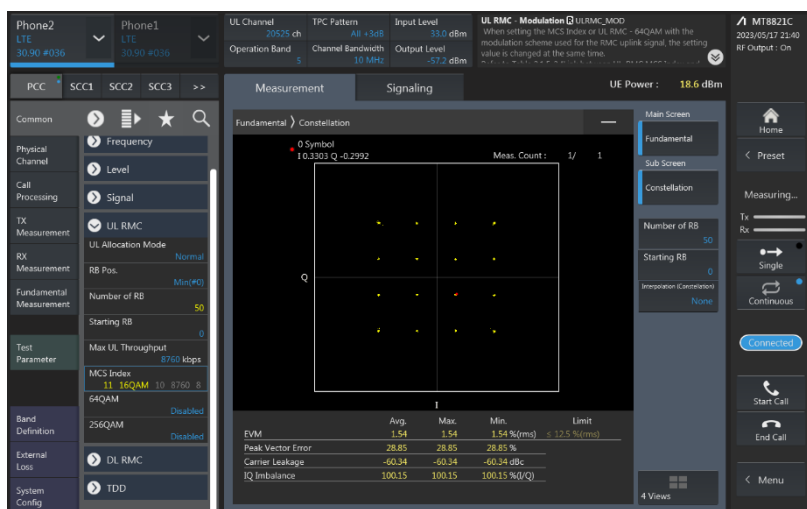
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## Test Graphs



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

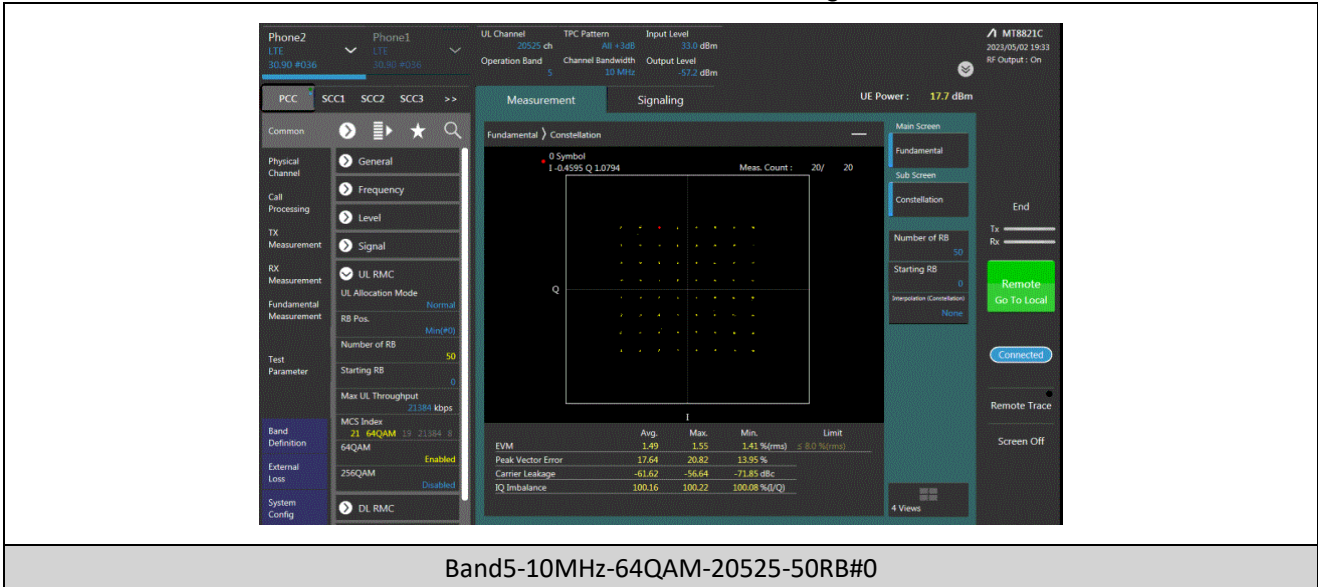


Band5-10MHz-16QAM-20525-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1	1.29	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.097	1.29	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.29	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.29	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.094	1.29	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.93	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.96	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	2.97	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.97	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.96	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.93	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.685	2.96	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.685	2.96	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.79	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.90	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.90	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.95	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.95	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.95	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	4.90	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.94	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.486	4.95	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.66	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.70	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 17 of 56

Band5	10MHz	QPSK	20600	50RB#0	8.931	9.62	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.70	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.68	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.68	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.951	9.74	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.911	9.70	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.931	9.68	PASS



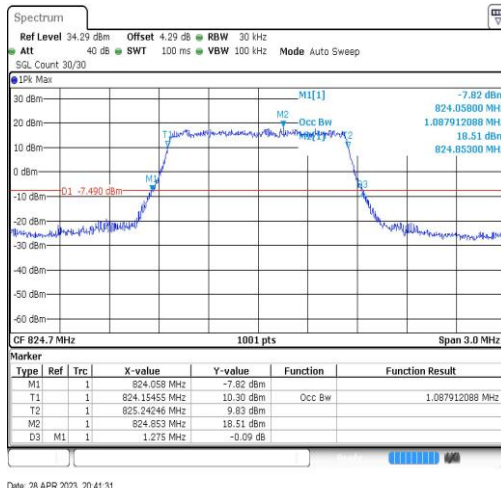
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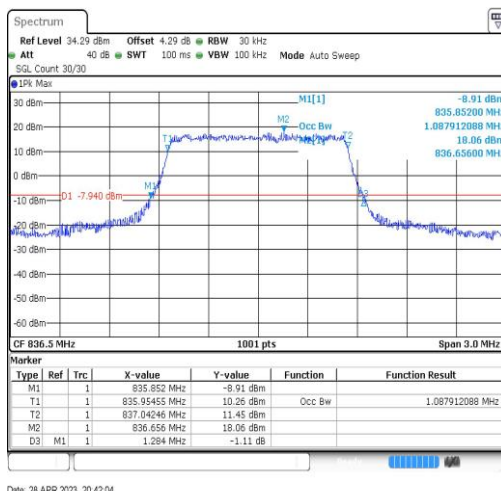
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## Test Graphs



Band5-1.4MHz-QPSK-20407-6RB#0-1.088



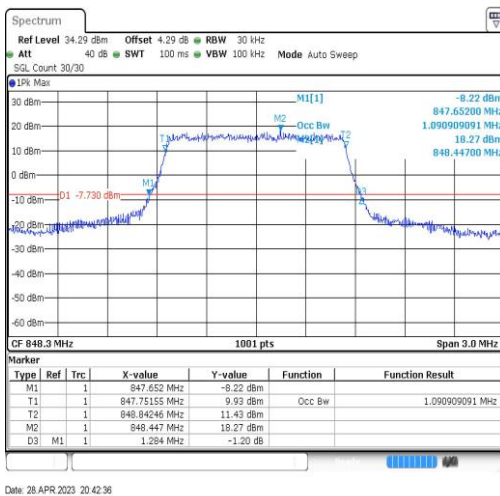
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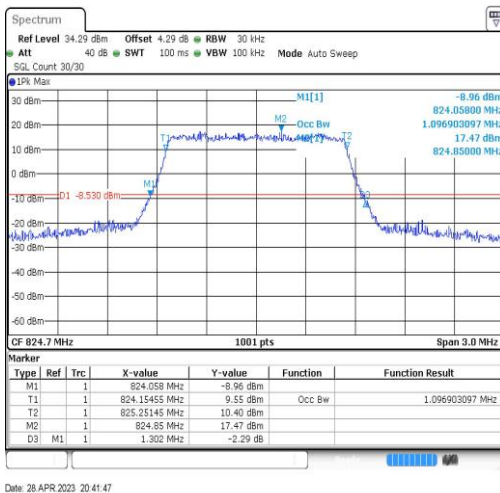
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Date: 28 APR 2023 20:42:36

### Band5-1.4MHz-QPSK-20643-6RB#0-1.091



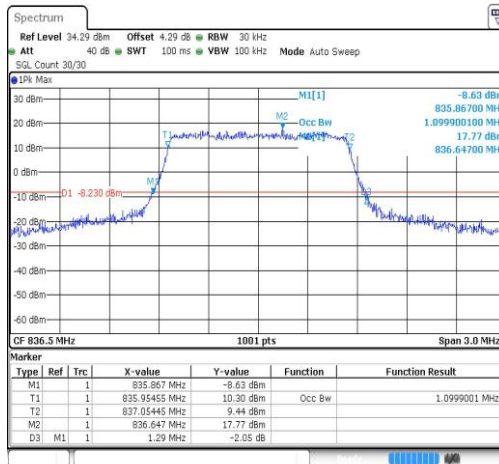
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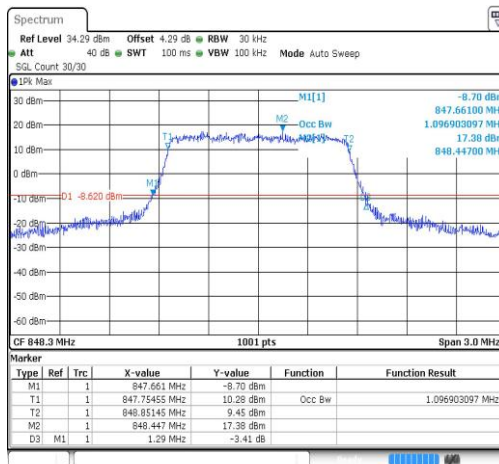
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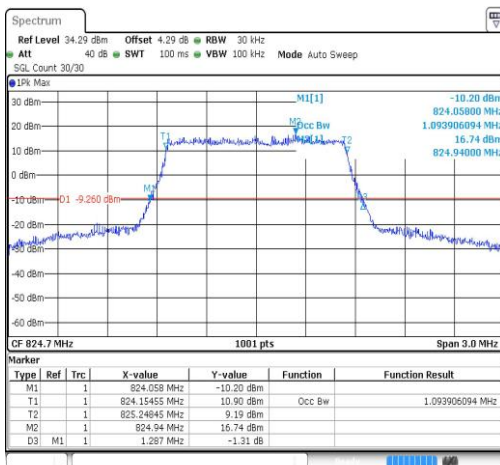
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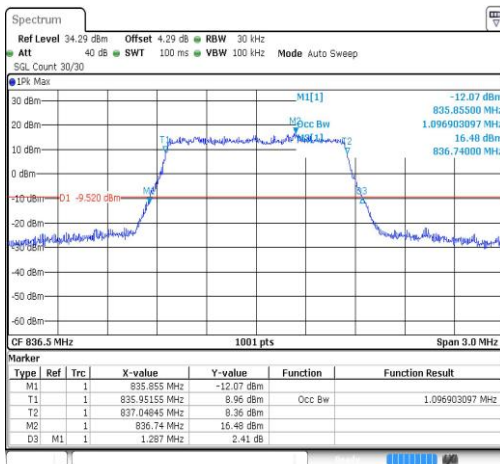
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Date: 1.MAY.2023 21:08:19

Band5-1.4MHz-64QAM-20407-6RB#0-1.094



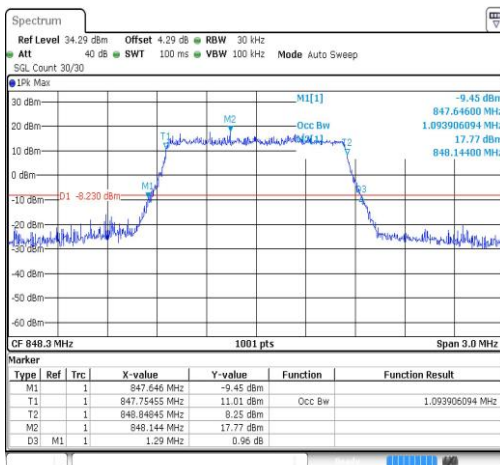
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Band5-1.4MHz-64QAM-20525-6RB#0-1.097



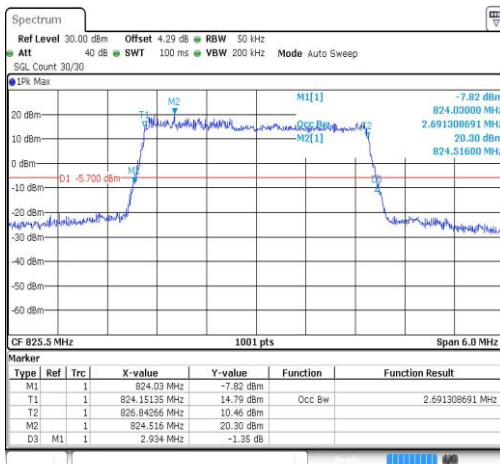
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Date: 1.MAY 2023 21:08:52

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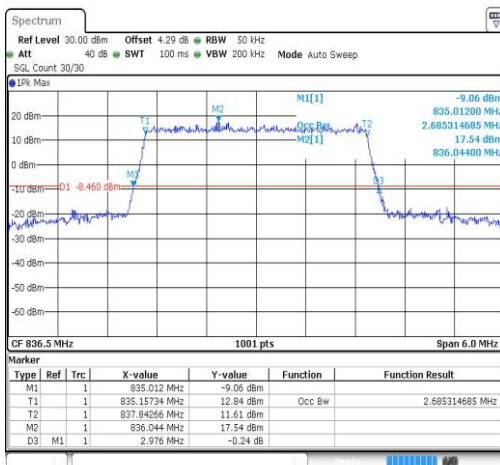
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### Band5-3MHz-QPSK-20415-15RB#0-2.691



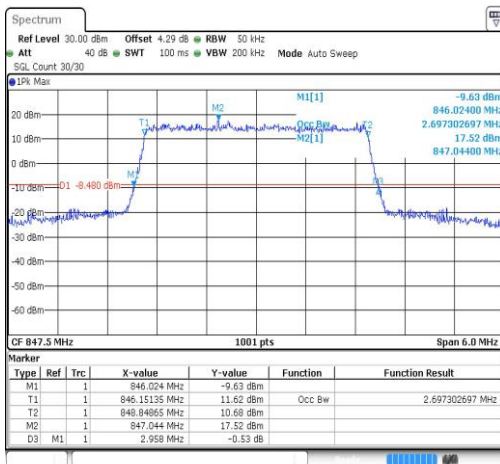
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Date: 28 APR 2023 20:44:38

Band5-3MHz-QPSK-20525-15RB#0-2.685



Date: 28 APR 2023 20:45:11

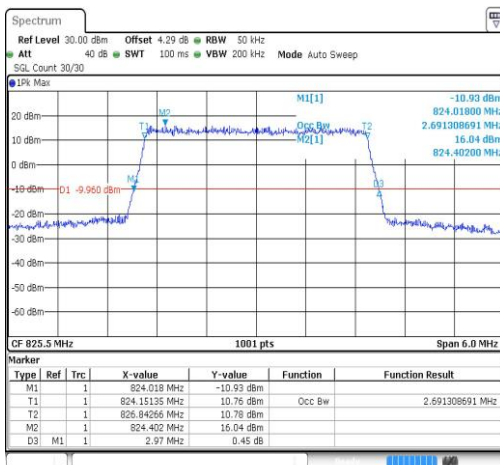
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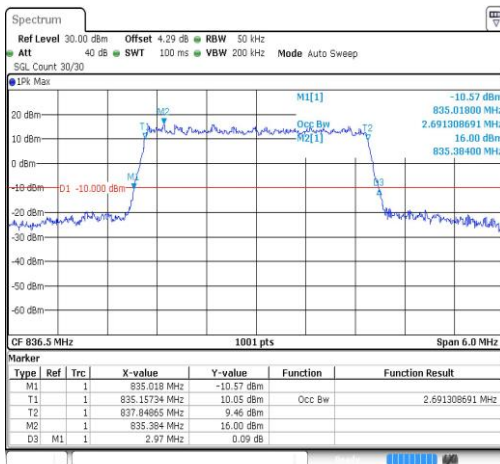
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Date: 28 APR 2023 20:44:22

### Band5-3MHz-16QAM-20415-15RB#0-2.691



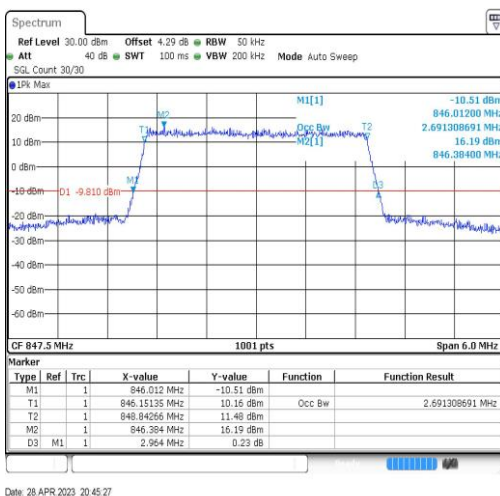
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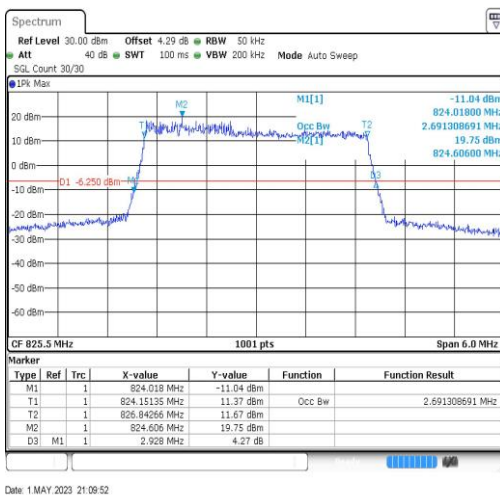


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Band5-3MHz-16QAM-20635-15RB#0-2.691

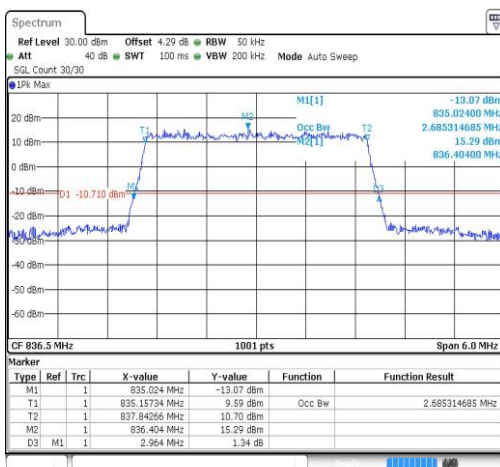


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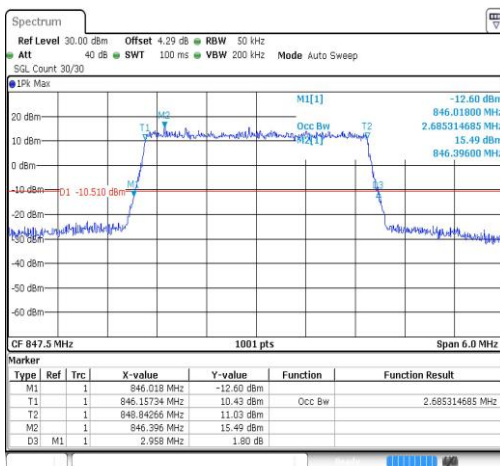
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Date: 1.MAY.2023 21:10:08

Band5-3MHz-64QAM-20525-15RB#0-2.685



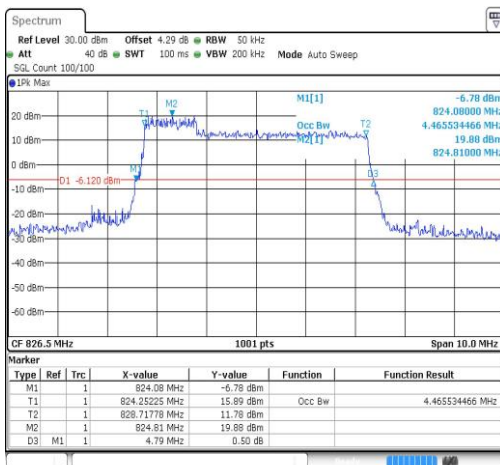
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Band5-3MHz-64QAM-20635-15RB#0-2.685



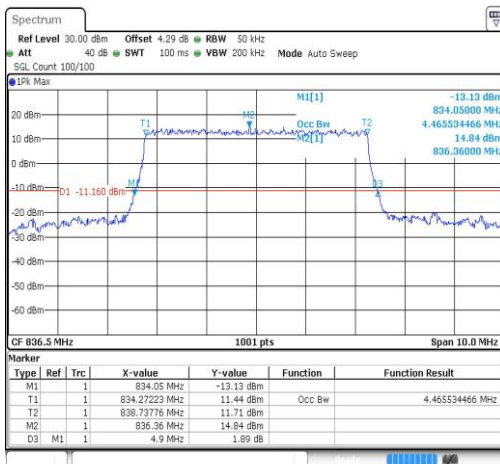
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Date: 28 APR 2023 20:46:45

Band5-5MHz-QPSK-20425-25RB#0-4.466



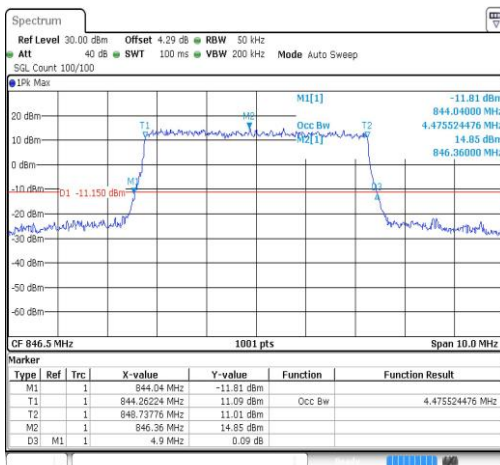
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Band5-5MHz-QPSK-20525-25RB#0-4.466



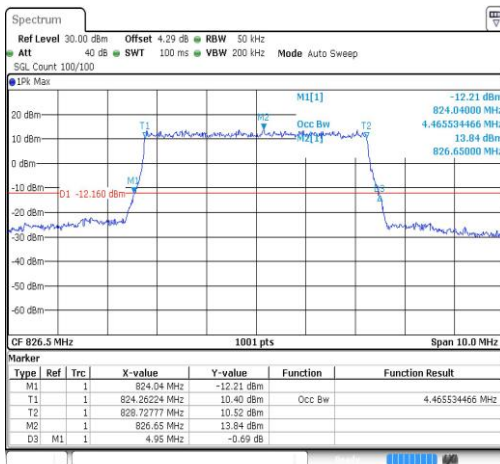
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Date: 28 APR 2023 20:48:22

### Band5-5MHz-QPSK-20625-25RB#0-4.476



Date: 28 APR 2023 20:47:12

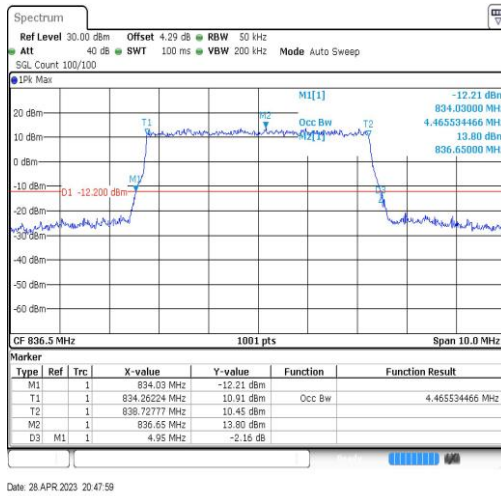
### Band5-5MHz-16QAM-20425-25RB#0-4.466



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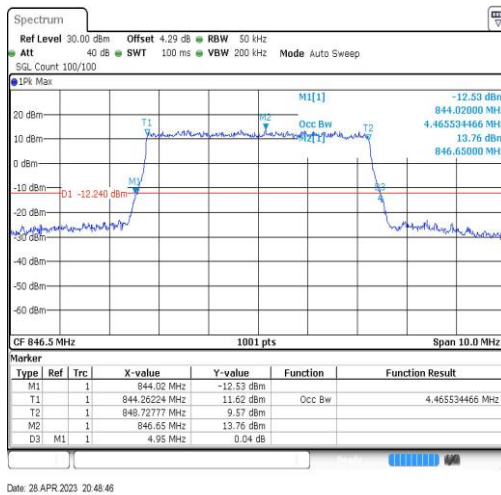
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Date: 28 APR 2023 20:47:59

Band5-5MHz-16QAM-20525-25RB#0-4.466



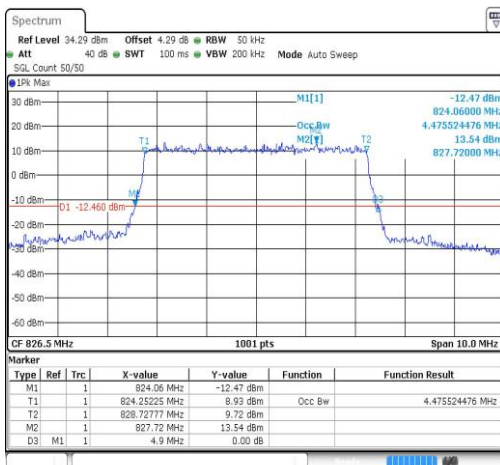
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Band5-5MHz-16QAM-20625-25RB#0-4.466



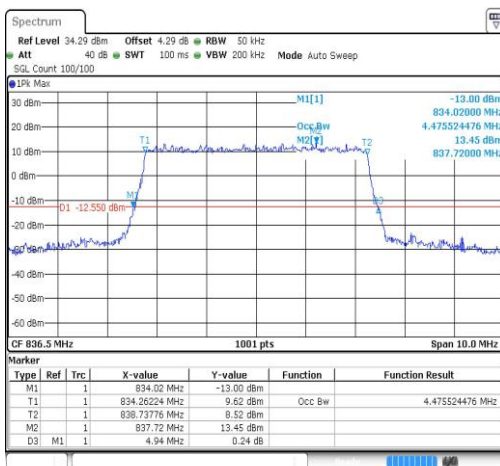
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Date: 1.MAY.2023 21:14:29

Band5-5MHz-64QAM-20425-25RB#0-4.476



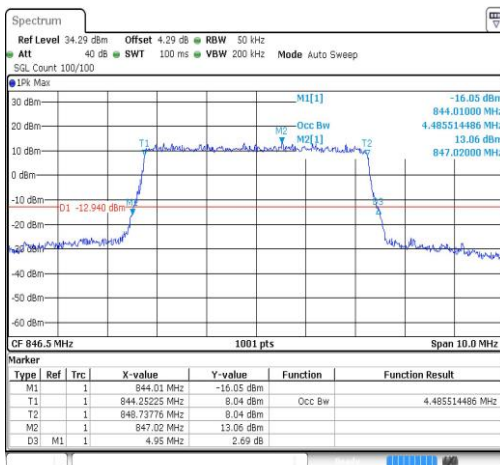
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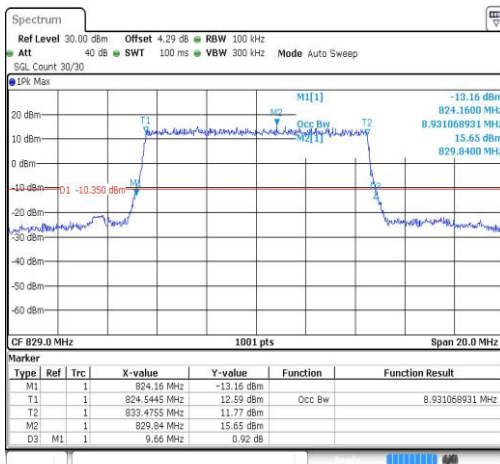
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Date: 1.MAY 2023 21:15:16

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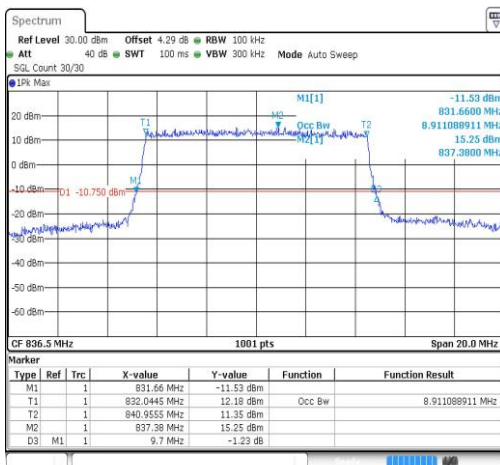
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### Band5-10MHz-QPSK-20450-50RB#0-8.931



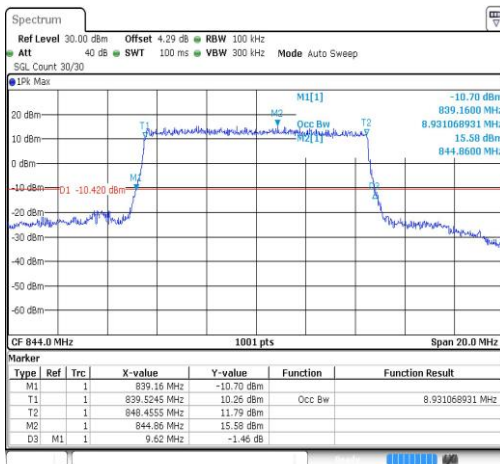
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Date: 28 APR 2023 20:50:31

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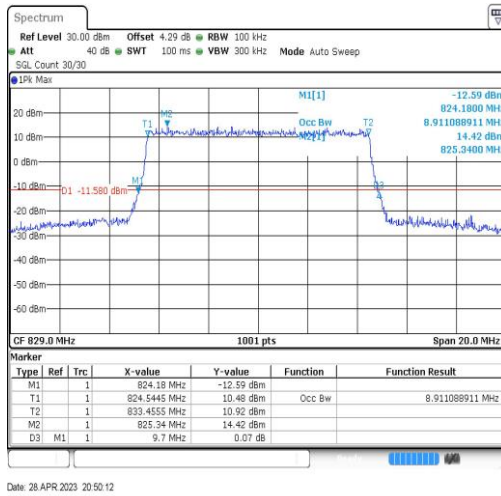
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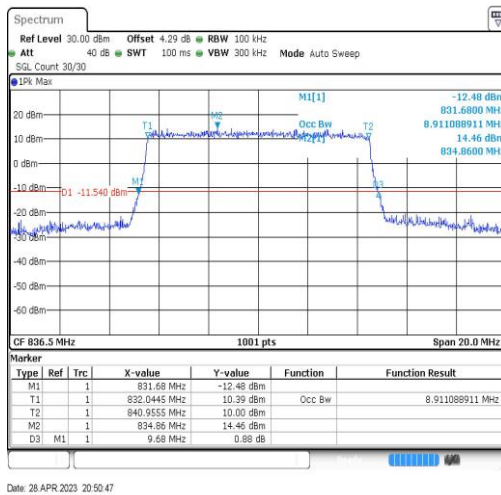


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Band5-10MHz-16QAM-20450-50RB#0-8.911



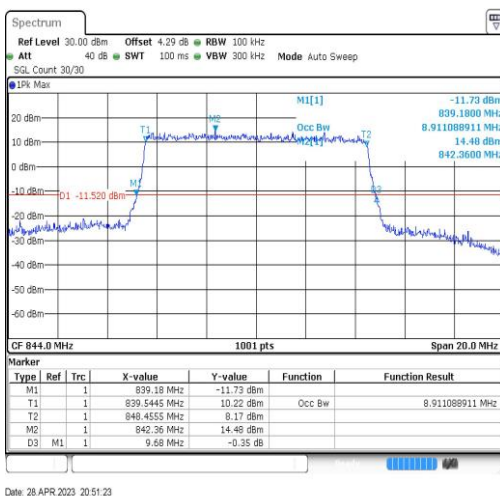
Band5-10MHz-16QAM-20525-50RB#0-8.911



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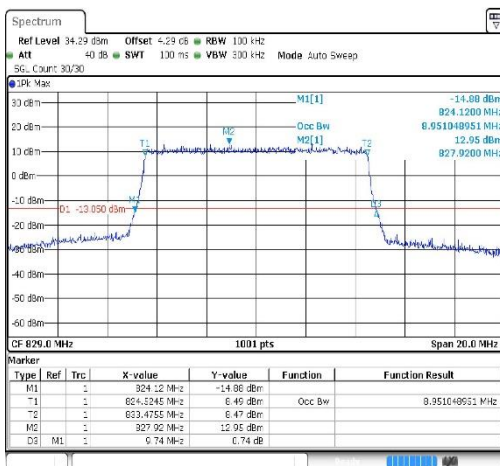
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Date: 28 APR 2023 20:51:23

### Band5-10MHz-16QAM-20600-50RB#0-8.911



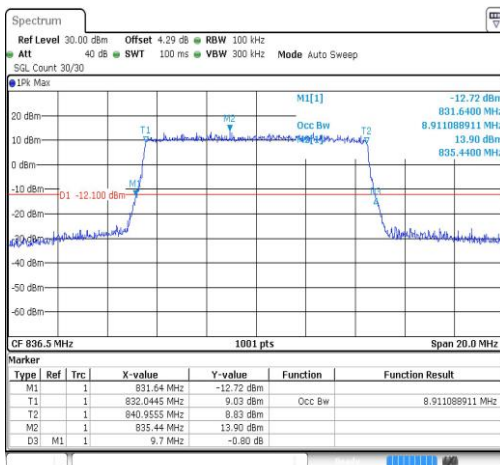
Date: 16 MAY 2023 11:45:52

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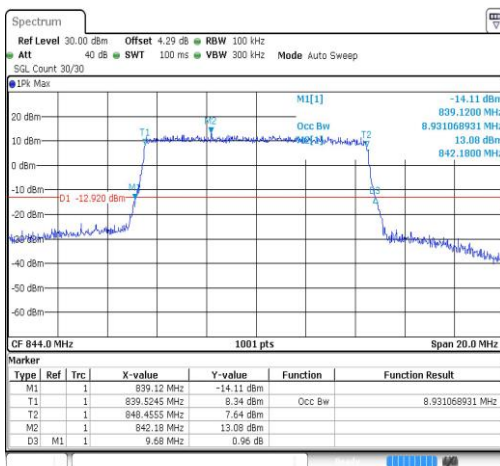
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Date: 1.MAY.2023 21:16:11

Band5-10MHz-64QAM-20525-50RB#0-8.911



Date: 1.MAY.2023 21:16:27

Band5-10MHz-64QAM-20600-50RB#0-8.931

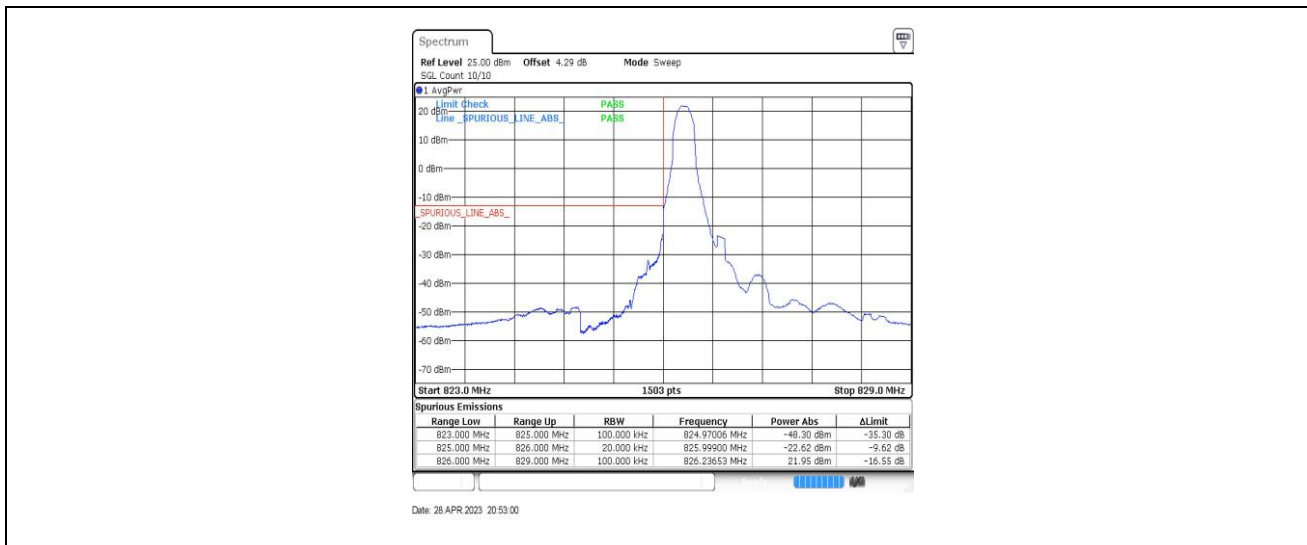


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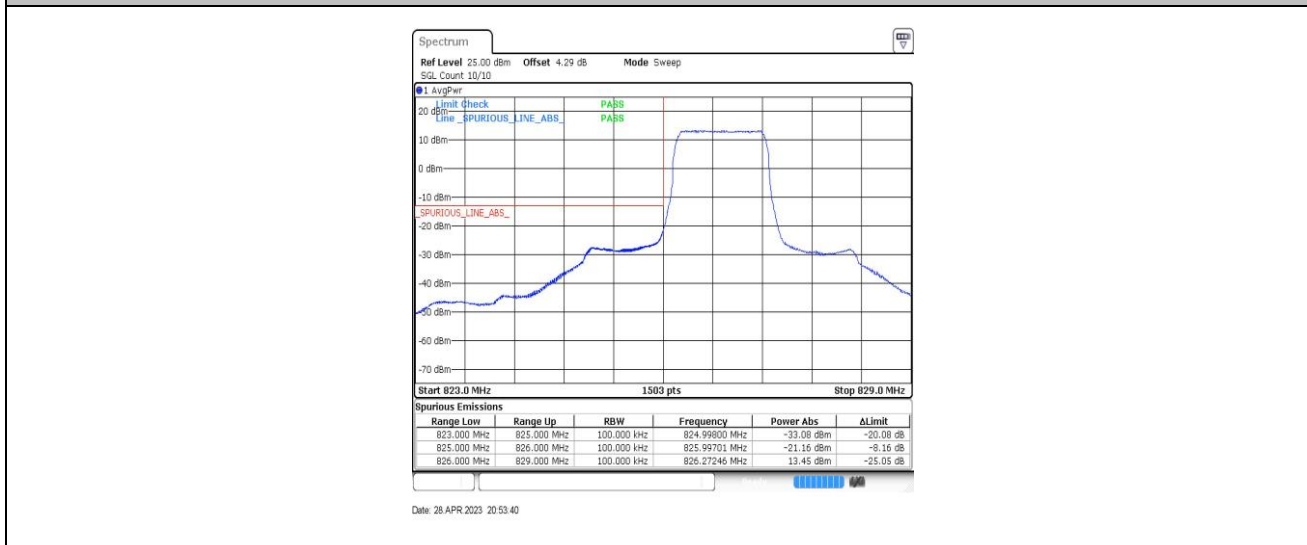
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## Band Edge

### Test Graphs



Band5-1.4MHz-QPSK-20427-1RB#0

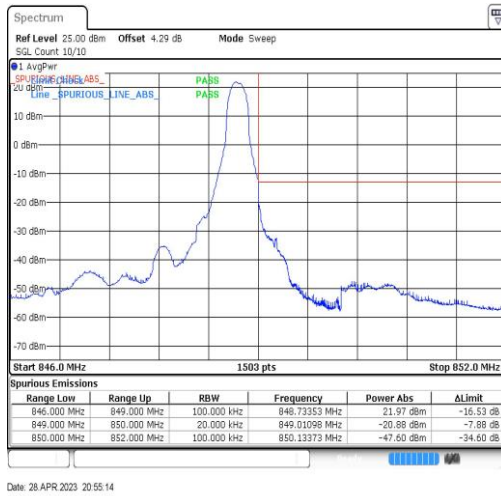


Band5-1.4MHz-QPSK-20427-6RB#0



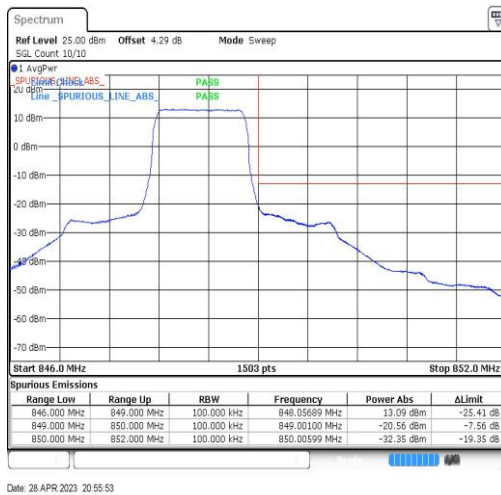
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Date: 28 APR 2023 20:55:14

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



Date: 28 APR 2023 20:55:53

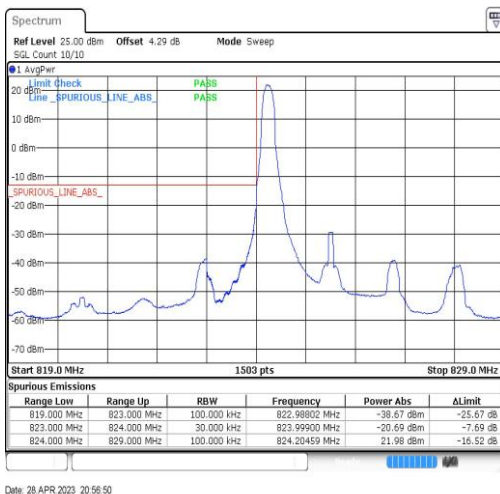
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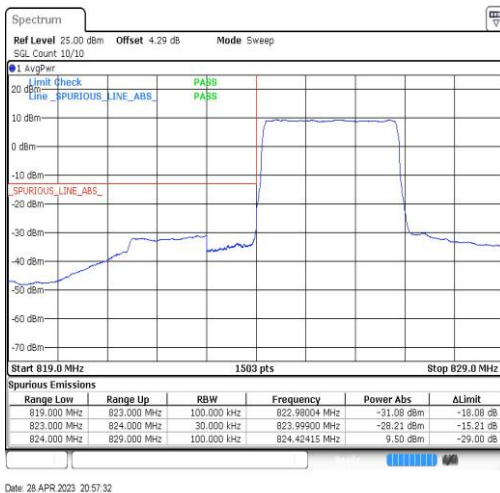
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Band5-3MHz-QPSK-20415-1RB#0



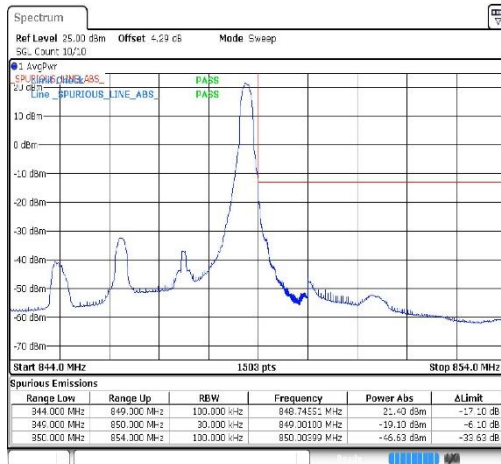
Band5-3MHz-QPSK-20415-15RB#0



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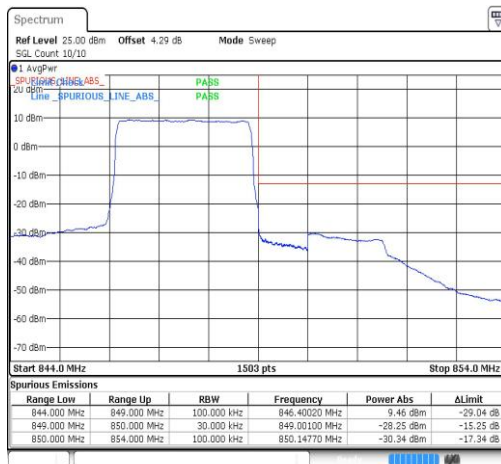
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Date: 16 MAY 2023 11:51:40

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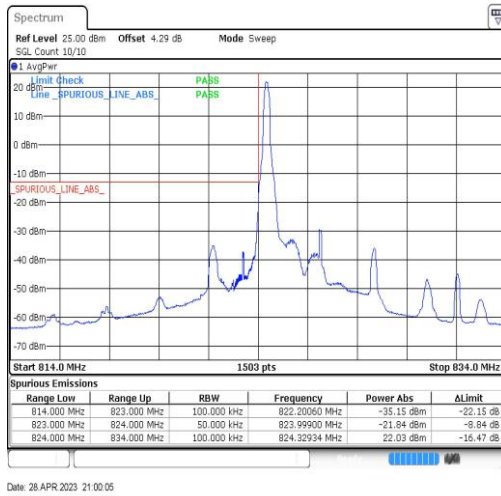
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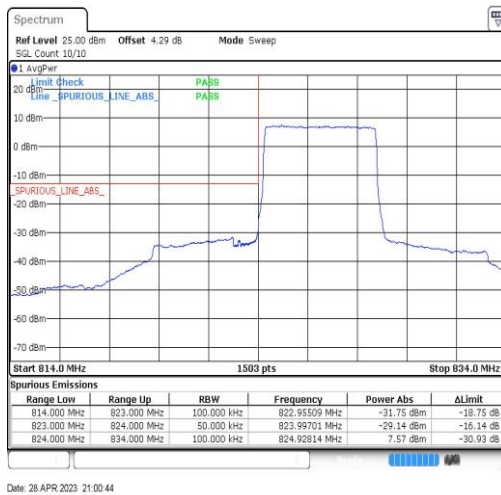


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Band5-5MHz-QPSK-20425-1RB#0



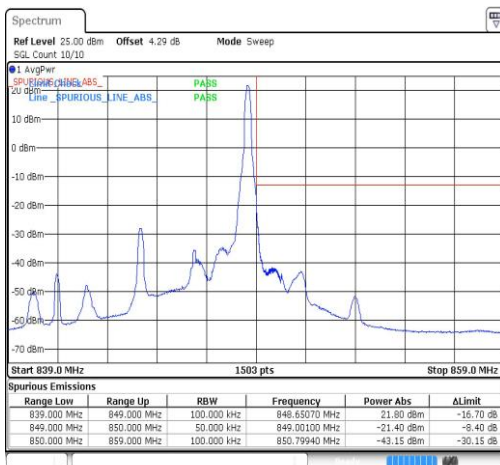
Band5-5MHz-QPSK-20425-25RB#0



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Date: 28 APR 2023 21:01:41

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



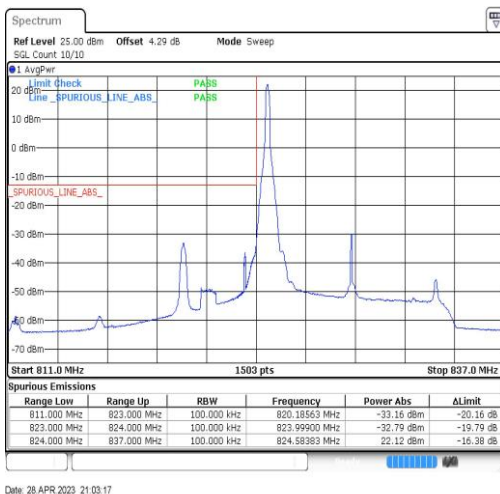
Date: 28 APR 2023 21:02:20

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



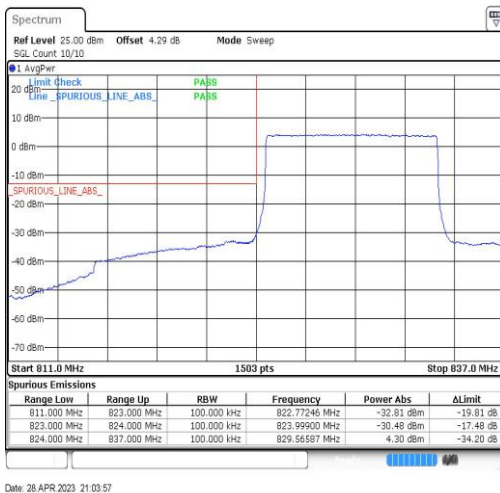
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Date: 28 APR 2023 21:03:17

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



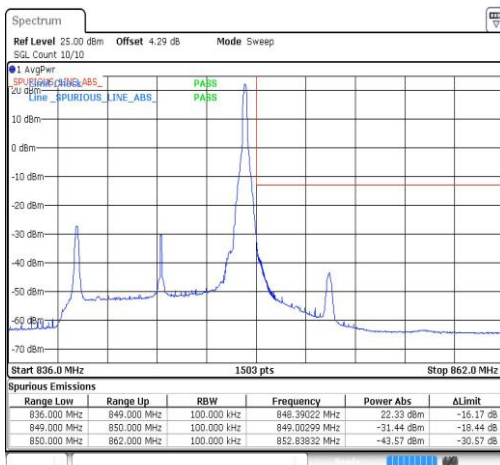
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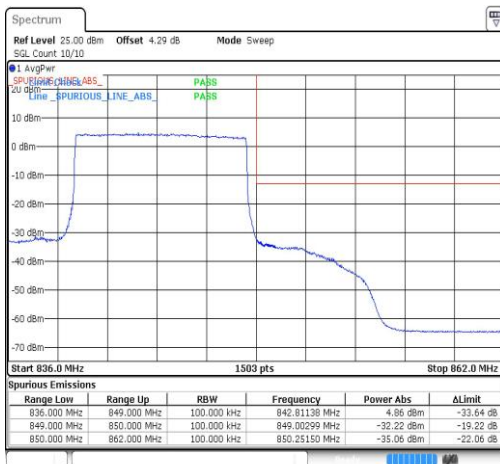
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Date: 28 APR 2023 21:04:53

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Date: 28 APR 2023 21:05:33

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



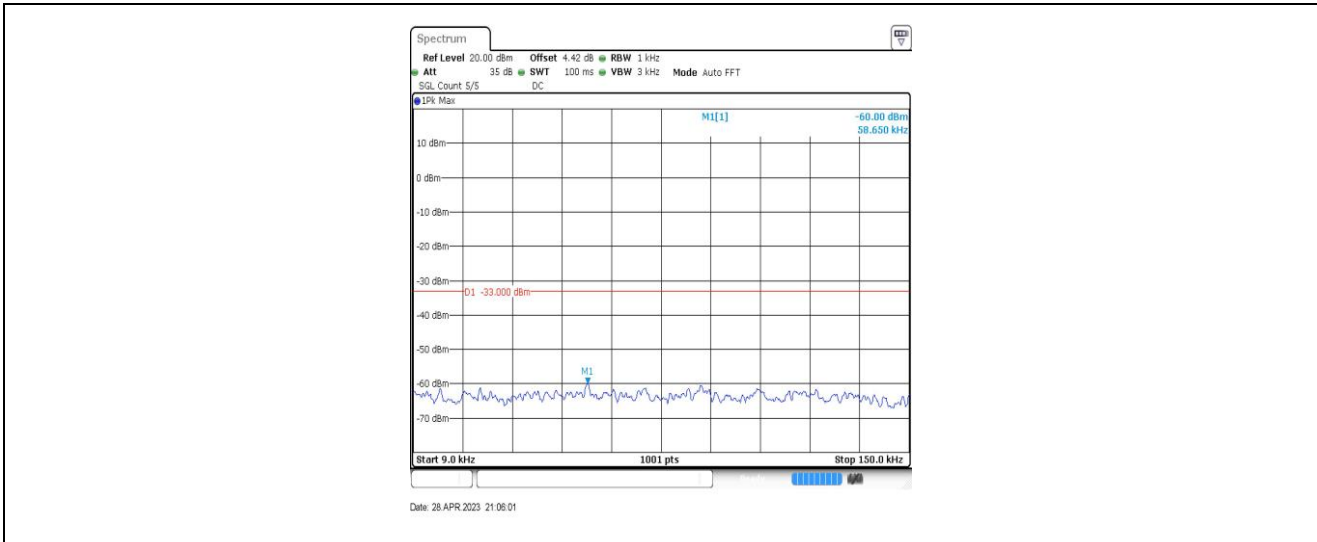
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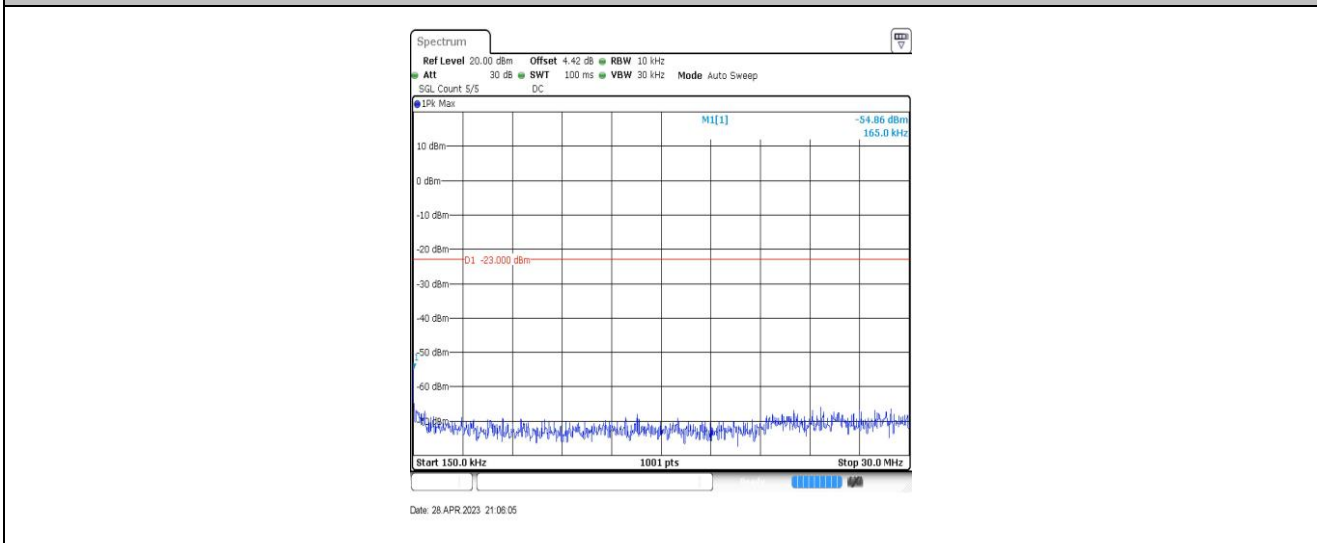


## Conducted Spurious Emission

### Test Graphs



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



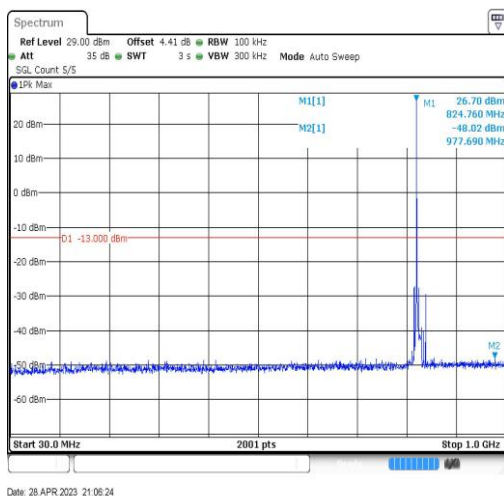
Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



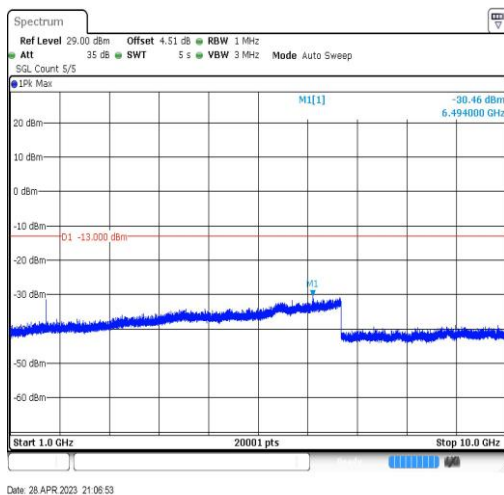
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz

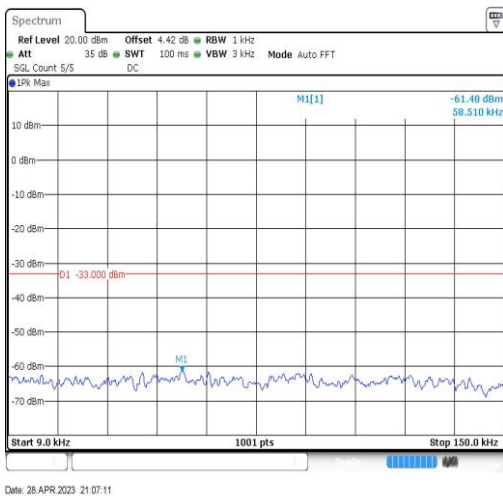


Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz

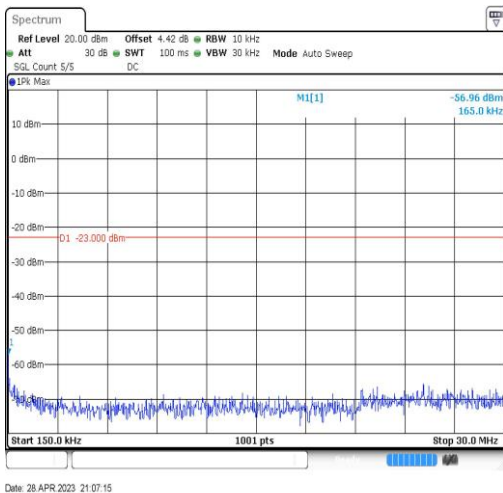


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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz

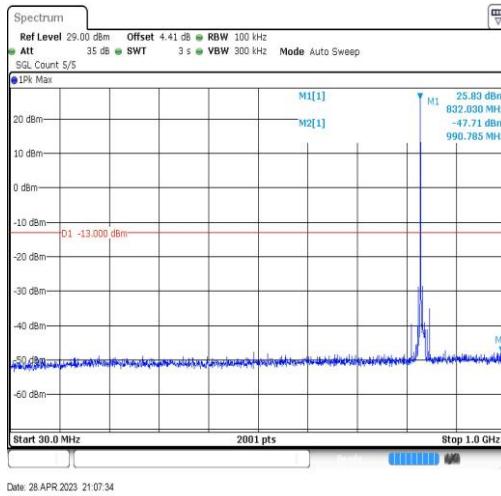


Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz

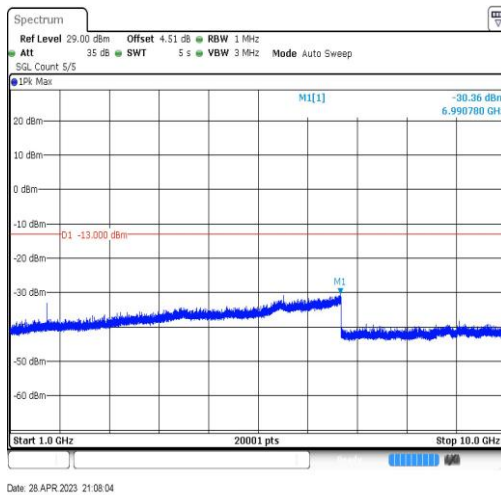


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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



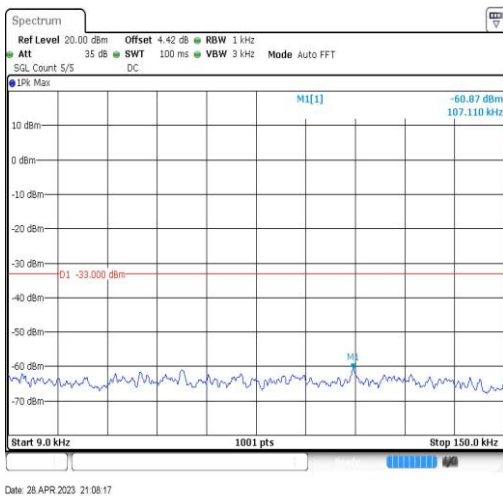
Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



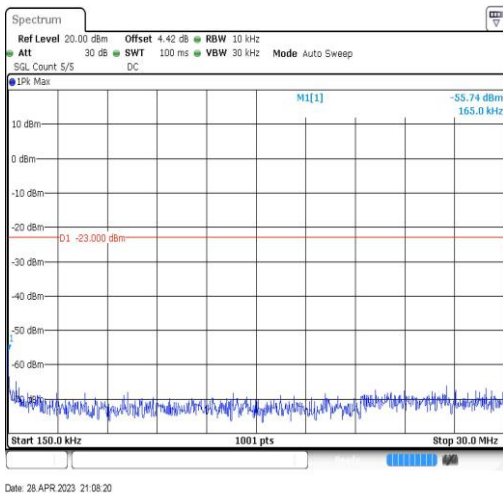
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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

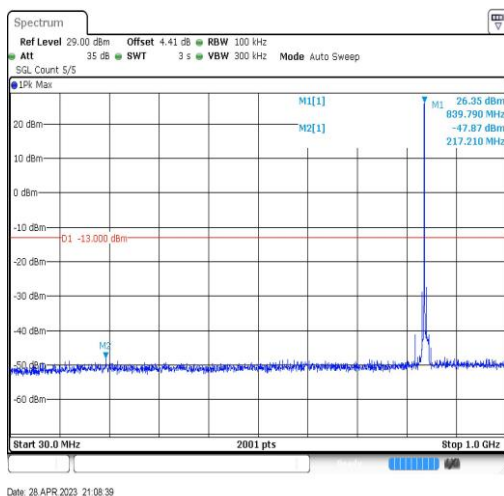


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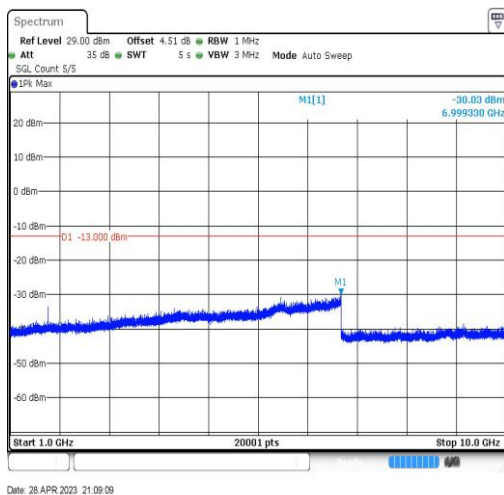
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE\_5 ANT 13 \_10MHz \_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.0811	50.70	-47.52	25.49	-66.59	-13.00	53.59	102	189	Horizontal
2	2473.9342	53.68	-46.67	27.70	-60.55	-13.00	47.55	100	146	Horizontal
3	3949.5975	48.38	-44.19	29.90	-61.17	-13.00	48.17	186	109	Horizontal
4	5703.1852	47.07	-41.15	32.50	-56.84	-13.00	43.84	274	167	Horizontal
5	7848.4424	44.35	-37.70	36.79	-51.82	-13.00	38.82	112	13	Horizontal
6	9883.4442	42.85	-35.09	38.47	-49.03	-13.00	36.03	353	13	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	1486.5608	48.81	-47.59	25.01	-69.03	-13.00	56.03	395	155	Vertical
2	2473.6842	51.78	-46.67	27.69	-62.46	-13.00	49.46	321	344	Vertical
3	3706.6853	48.48	-44.54	29.34	-61.98	-13.00	48.98	115	188	Vertical
4	5587.6794	47.49	-41.49	32.50	-56.76	-13.00	43.76	383	198	Vertical
5	7368.2184	45.33	-38.47	36.57	-51.83	-13.00	38.83	100	113	Vertical
6	9904.7952	42.92	-35.09	38.60	-48.83	-13.00	35.83	336	236	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 51 of 56

**Test Band = LTE\_5 ANT 13 \_10MHz \_TM1**

**Test Channel = 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	1664.333	51.48	-47.49	25.39	-65.88	-13.00	52.88	128	232	Horizontal
2	2496.187	58.09	-46.69	27.78	-56.08	-13.00	43.08	365	73	Horizontal
3	3083.6542	47.98	-45.36	28.87	-63.77	-13.00	50.77	344	279	Horizontal
4	4266.0133	48.34	-43.46	29.70	-60.68	-13.00	47.68	316	348	Horizontal
5	5602.7301	47.42	-41.43	32.59	-56.68	-13.00	43.68	117	172	Horizontal
6	7709.8355	44.42	-37.59	36.72	-51.71	-13.00	38.71	369	247	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	1451.3064	48.66	-47.51	25.29	-68.82	-13.00	55.82	230	144	Vertical
2	2496.4371	55.42	-46.69	27.79	-58.74	-13.00	45.74	220	144	Vertical
3	3698.2849	48.73	-44.51	29.30	-61.74	-13.00	48.74	261	348	Vertical
4	5376.9688	47.23	-42.06	32.36	-57.73	-13.00	44.73	348	168	Vertical
5	7708.4354	44.47	-37.59	36.73	-51.65	-13.00	38.65	323	354	Vertical
6	9901.2951	43.02	-34.99	38.60	-48.63	-13.00	35.63	269	72	Vertical



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**Test Band = LTE\_5 ANT 13 \_10MHz \_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.0849	53.42	-47.47	25.27	-64.04	-13.00	51.04	138	190	Horizontal
2	2518.9399	61.65	-46.59	27.80	-52.40	-13.00	39.40	391	148	Horizontal
3	3692.6846	48.68	-44.50	29.30	-61.78	-13.00	48.78	394	12	Horizontal
4	5706.3353	47.05	-41.16	32.50	-56.87	-13.00	43.87	311	145	Horizontal
5	7872.5936	44.36	-37.60	36.66	-51.84	-13.00	38.84	264	326	Horizontal
6	9893.2447	42.92	-35.01	38.55	-48.80	-13.00	35.80	269	188	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	1678.8349	49.24	-47.47	25.27	-68.22	-13.00	55.22	192	236	Vertical
2	2518.9399	55.54	-46.59	27.80	-58.51	-13.00	45.51	132	312	Vertical
3	3122.1561	47.87	-45.25	28.81	-63.83	-13.00	50.83	162	348	Vertical
4	4392.7196	48.52	-43.40	30.07	-60.07	-13.00	47.07	195	108	Vertical
5	6101.8551	46.36	-40.54	33.40	-56.04	-13.00	43.04	254	236	Vertical
6	7735.0368	44.80	-37.68	36.52	-51.62	-13.00	38.62	108	209	Vertical



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**Test Band = LTE\_5 ANT 31\_10MHz\_TM1**  
**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1765.8457	50.09	-47.36	25.13	-67.40	-13.00	54.40	231	219	Horizontal
2	2473.9342	49.19	-46.67	27.70	-65.04	-13.00	52.04	167	102	Horizontal
3	3730.4865	48.67	-44.64	29.48	-61.75	-13.00	48.75	266	32	Horizontal
4	5700.385	46.61	-41.14	32.50	-57.29	-13.00	44.29	118	318	Horizontal
5	7441.0221	44.24	-38.28	36.78	-52.52	-13.00	39.52	352	275	Horizontal
6	9522.5761	43.51	-35.93	37.80	-49.88	-13.00	36.88	106	59	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	1396.0495	48.19	-47.41	24.92	-69.56	-13.00	56.56	376	201	Vertical
2	1939.1174	58.60	-47.03	25.48	-58.21	-13.00	45.21	254	42	Vertical
3	2473.9342	48.34	-46.67	27.70	-65.89	-13.00	52.89	366	4	Vertical
4	4398.6699	47.46	-43.40	30.09	-61.11	-13.00	48.11	153	310	Vertical
5	6112.0056	45.63	-40.57	33.38	-56.82	-13.00	43.82	268	2	Vertical
6	8968.1484	43.42	-36.10	36.83	-51.11	-13.00	38.11	211	268	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 54 of 56

**Test Band = LTE\_ 5 ANT 31 \_10MHz \_TM1**

**Test Channel = 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	1637.8297	47.80	-47.54	25.40	-69.60	-13.00	56.60	263	26	Horizontal
2	2496.4371	50.98	-46.69	27.79	-63.18	-13.00	50.18	266	189	Horizontal
3	3716.4858	48.52	-44.58	29.40	-61.92	-13.00	48.92	215	242	Horizontal
4	5606.5803	46.35	-41.42	32.59	-57.74	-13.00	44.74	194	322	Horizontal
5	7119.006	44.61	-38.99	36.09	-53.55	-13.00	40.55	266	185	Horizontal
6	9492.8246	43.75	-35.96	37.76	-49.71	-13.00	36.71	236	211	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	1777.5972	62.42	-47.35	25.22	-54.97	-13.00	41.97	381	44	Vertical
2	2408.6761	48.17	-46.62	27.43	-66.28	-13.00	53.28	294	134	Vertical
3	3733.2867	48.35	-44.65	29.50	-62.06	-13.00	49.06	132	275	Vertical
4	5714.7357	46.65	-41.18	32.50	-57.29	-13.00	44.29	377	349	Vertical
5	7442.4221	44.40	-38.28	36.78	-52.36	-13.00	39.36	213	101	Vertical
6	9508.2254	43.68	-35.98	37.80	-49.76	-13.00	36.76	259	85	Vertical



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**Test Band = LTE\_ 5 ANT 31 \_10MHz \_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1424.053	48.05	-47.45	25.09	-69.57	-13.00	56.57	241	0	Horizontal
2	2518.6898	55.03	-46.59	27.80	-59.02	-13.00	46.02	156	50	Horizontal
3	3708.7854	48.40	-44.55	29.35	-62.06	-13.00	49.06	221	337	Horizontal
4	5589.7795	46.96	-41.48	32.52	-57.26	-13.00	44.26	264	173	Horizontal
5	7849.8425	43.75	-37.69	36.80	-52.40	-13.00	39.40	294	64	Horizontal
6	9567.3784	43.50	-35.76	37.80	-49.72	-13.00	36.72	225	321	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	1646.0808	47.84	-47.53	25.47	-69.48	-13.00	56.48	324	105	Vertical
2	2518.6898	49.18	-46.59	27.80	-64.87	-13.00	51.87	364	0	Vertical
3	3712.2856	48.52	-44.56	29.37	-61.93	-13.00	48.93	196	33	Vertical
4	5681.4841	46.51	-41.20	32.50	-57.45	-13.00	44.45	255	175	Vertical
5	7432.9716	44.34	-38.28	36.77	-52.43	-13.00	39.43	216	196	Vertical
6	9563.5282	43.45	-35.77	37.80	-49.78	-13.00	36.78	226	75	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	VN	NT	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.00	0.000000	±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	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.50	-0.001793	±2.5	PASS

---End of Attachment---



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