



# Appendix B.3

## LTE Band 13



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**Effective (Isotropic) Radiated Power Output Data for**

**ZEWM2306000857RG01**

**Test Result**

ANT7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.91	25.16	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.02	25.27	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.99	25.24	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.71	23.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.96	25.21	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.97	25.22	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.92	25.17	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.87	24.12	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.98	25.23	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.97	25.22	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.97	25.22	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.84	24.09	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.24	24.49	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.20	24.45	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.23	24.48	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.75	23.00	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.19	24.44	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.06	24.31	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.16	24.41	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.94	23.19	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.19	24.44	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.11	24.36	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.10	24.35	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.86	23.11	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.96	23.21	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.93	23.18	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.00	23.25	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.21	22.46	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.03	23.28	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.95	23.20	34.77	PASS



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Band13	5MHz	64QAM	23230	1RB#24	22.05	23.30	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.40	22.65	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.95	23.20	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.00	23.25	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.99	23.24	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.35	22.60	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	19.36	20.61	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	19.45	20.70	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	19.38	20.63	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	19.09	20.34	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	19.41	20.66	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	19.36	20.61	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	19.42	20.67	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	19.01	20.26	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	19.48	20.73	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	19.49	20.74	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	19.44	20.69	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	19.03	20.28	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.00	25.25	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.98	25.23	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.92	25.17	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.88	24.13	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.28	24.53	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.27	24.52	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.21	24.46	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.90	23.15	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.02	23.27	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.00	23.25	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.98	23.23	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.39	22.64	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	19.46	20.71	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	19.49	20.74	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	19.41	20.66	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	19.11	20.36	34.77	PASS



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**Effective (Isotropic) Radiated Power Output Data for**

**ZEWM2306000856RG01**

**Test Result**

ANT7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.73	24.98	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.09	25.34	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.85	25.10	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.68	23.93	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.06	25.31	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.04	25.29	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.07	25.32	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.93	24.18	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.08	25.33	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.13	25.38	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.08	25.33	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.95	24.20	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.30	24.55	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.23	24.48	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.10	24.35	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.77	23.02	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.07	24.32	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.99	24.24	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.01	24.26	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.02	23.27	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.25	24.50	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.11	24.36	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.98	24.23	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.96	23.21	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.89	23.14	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.09	23.34	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.12	23.37	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.24	22.49	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.16	23.41	34.77	PASS



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Band13	5MHz	64QAM	23230	1RB#12	22.13	23.38	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.07	23.32	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.43	22.68	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.80	23.05	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.04	23.29	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.14	23.39	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.19	22.44	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	19.39	20.64	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	19.61	20.86	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	19.53	20.78	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.93	20.18	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	19.54	20.79	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	19.52	20.77	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	19.46	20.71	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.90	20.15	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	19.51	20.76	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	19.54	20.79	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	19.60	20.85	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	19.01	20.26	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.03	25.28	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.09	25.34	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.98	25.23	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.83	24.08	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.20	24.45	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.42	24.67	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.24	24.49	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.87	23.12	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.11	23.36	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.11	23.36	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.92	23.17	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.49	22.74	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	19.50	20.75	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	19.68	20.93	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	19.44	20.69	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	19.16	20.41	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

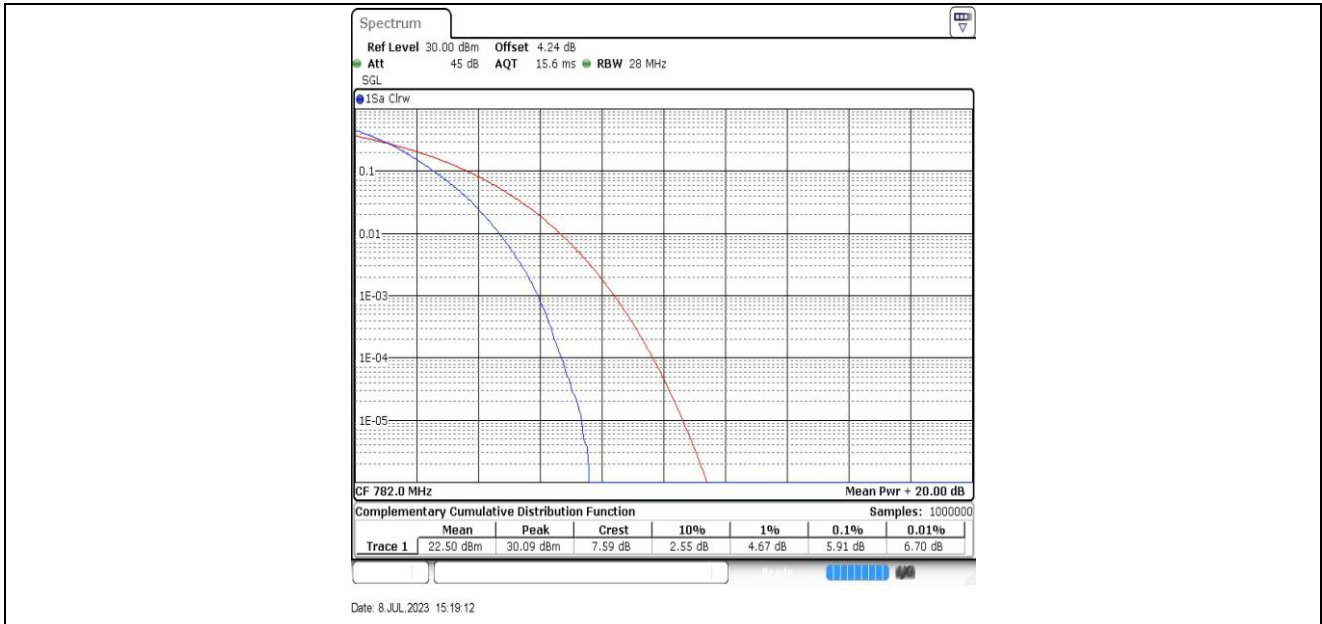
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.91	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.49	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.61	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	6.61	13	PASS

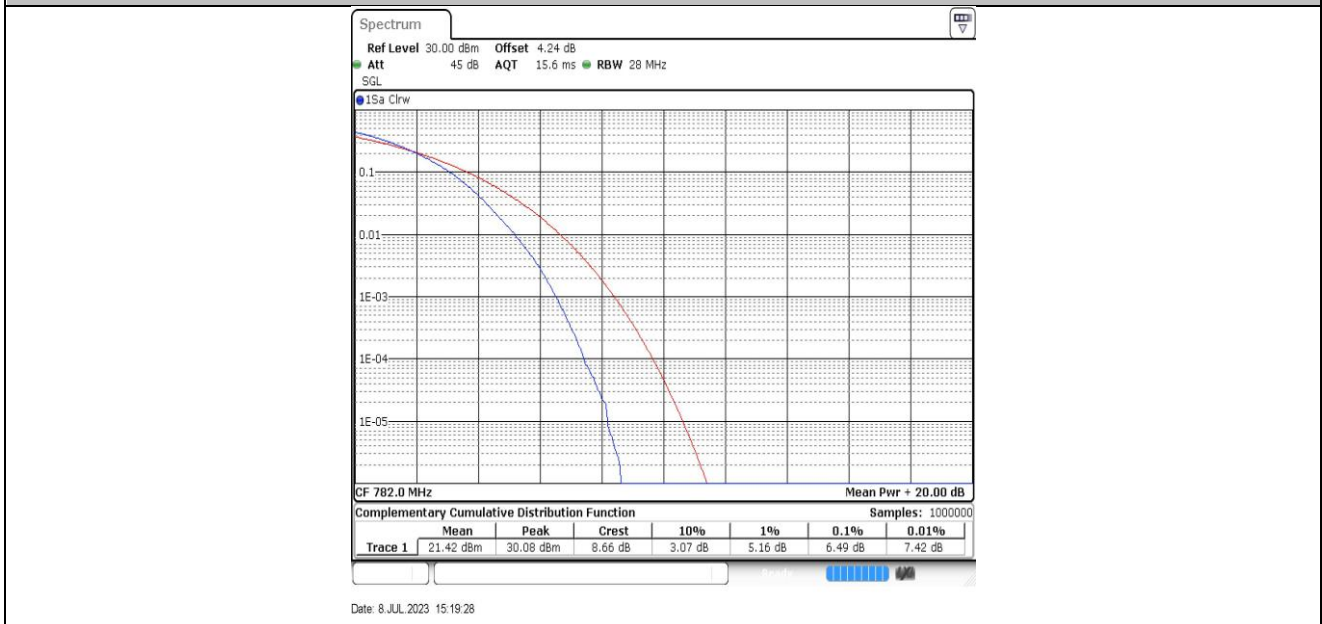


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### Test Graphs



10MHz-23230 QPSK



10MHz-23230 16QAM



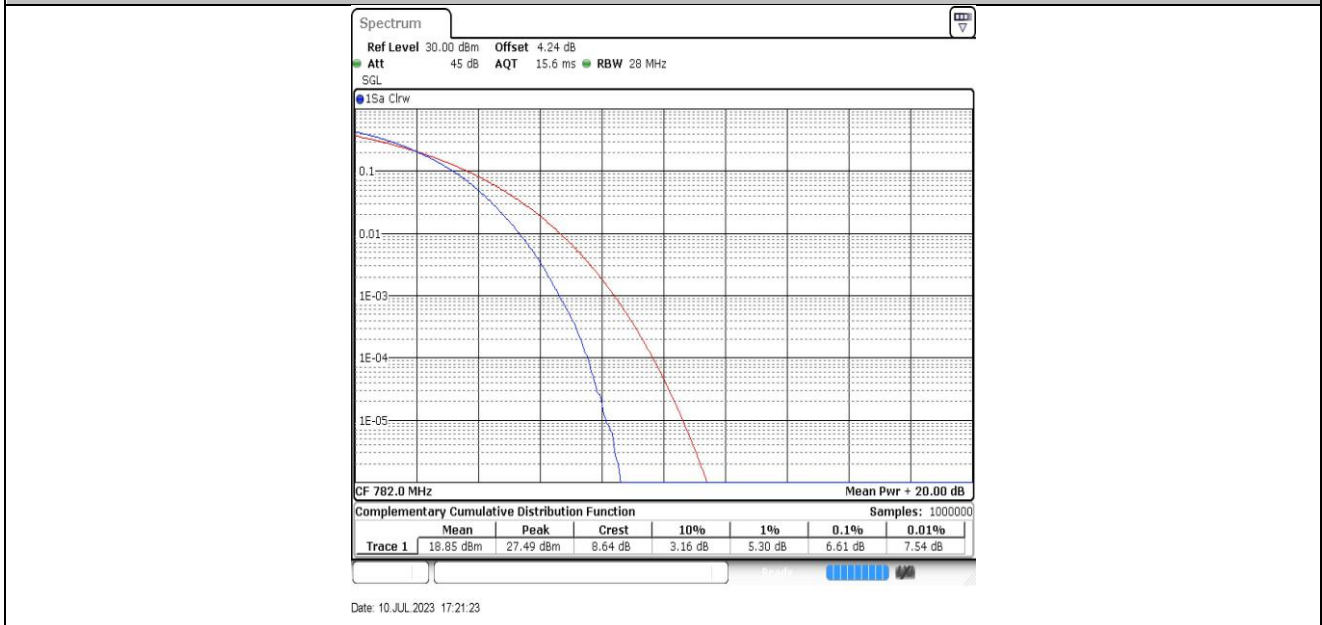
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10MHz-23230 64QAM



10MHz-23230 256QAM



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.456	4.81	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.466	4.84	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.456	4.85	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.466	4.88	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.466	4.84	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.456	4.86	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.486	4.90	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.86	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.456	4.79	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.476	4.85	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.456	4.82	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.58	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.931	9.62	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.911	9.60	PASS

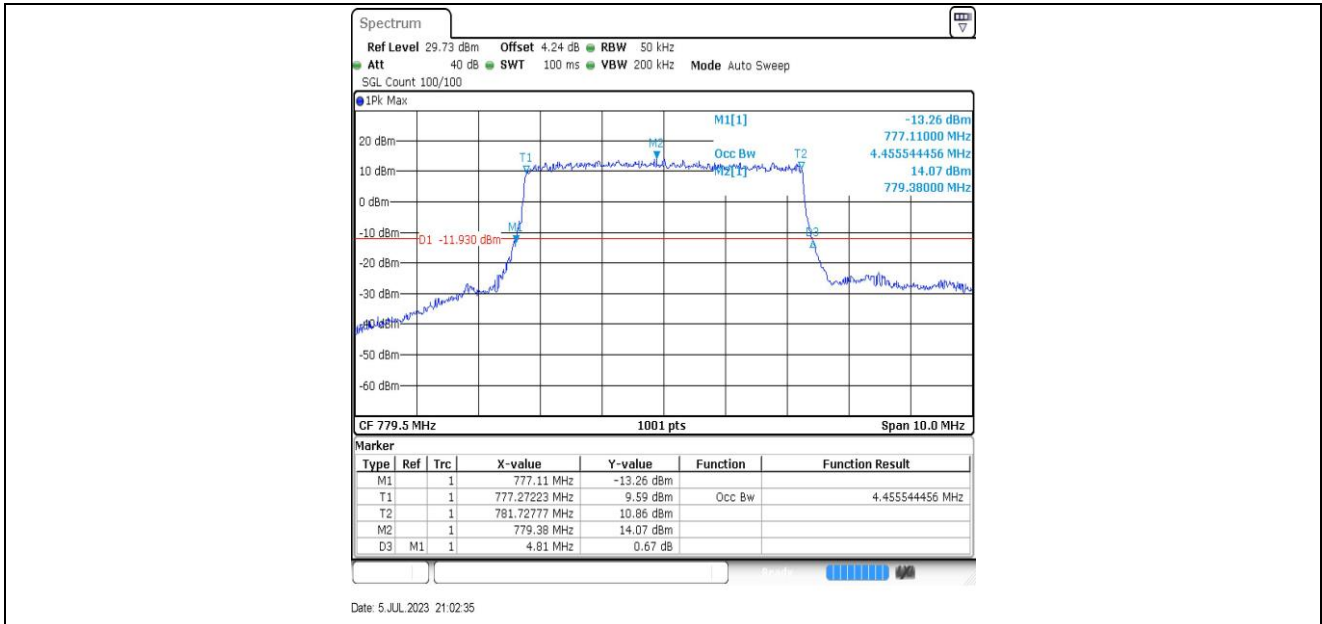


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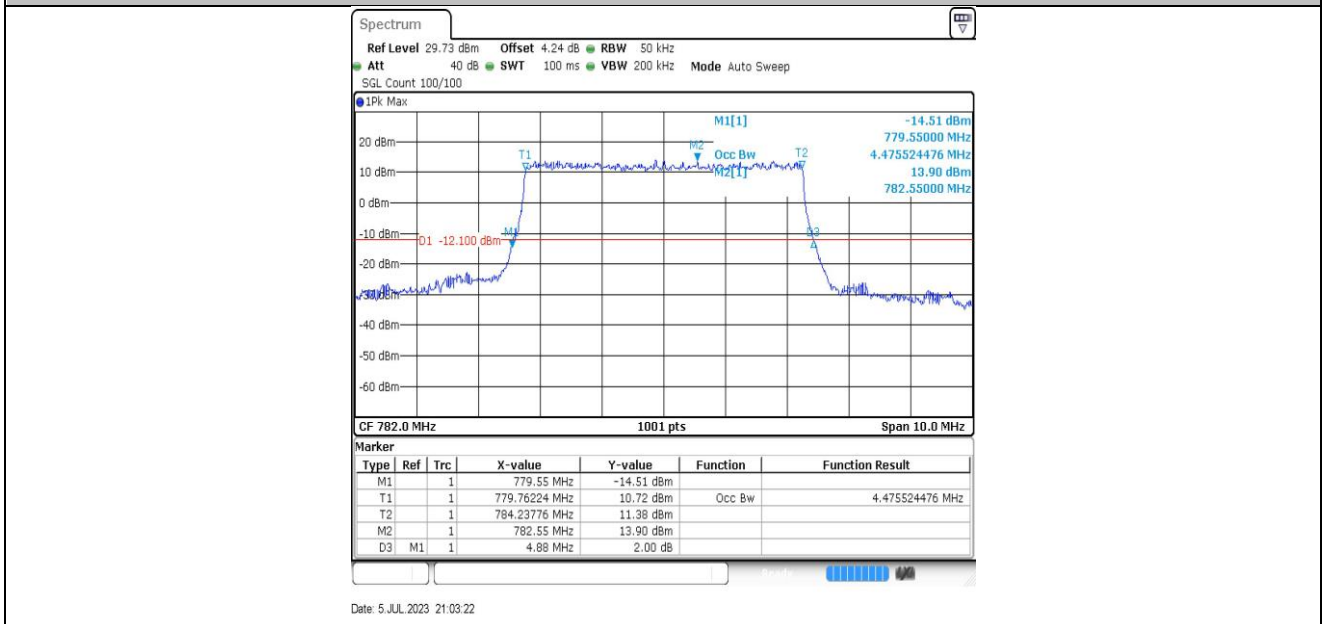
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### Test Graphs



5MHz-23205 QPSK



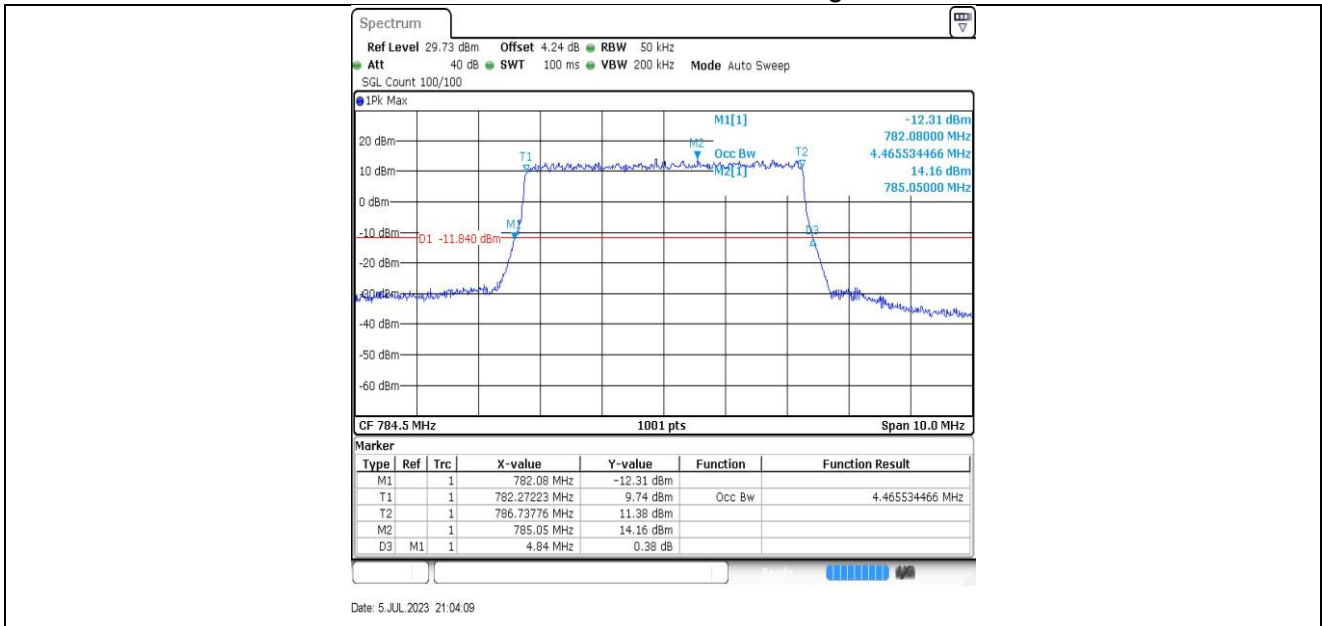
5MHz-23230 QPSK



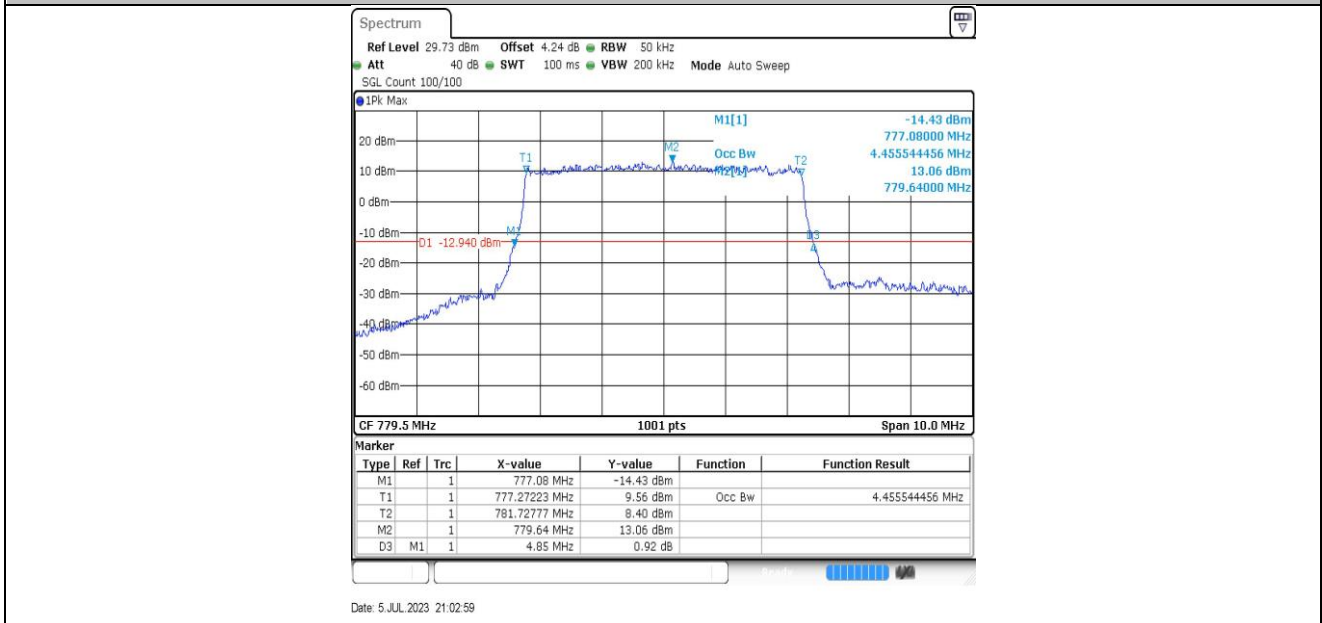
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### 5MHz-23255 QPSK



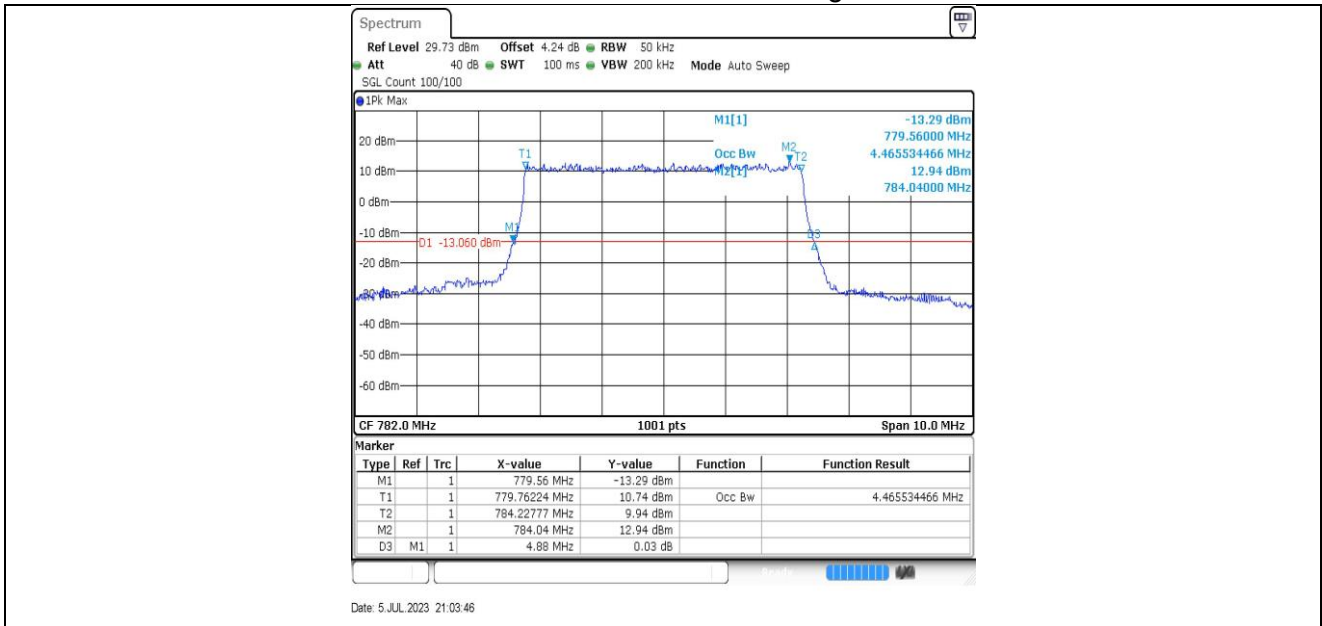
### 5MHz-23205 16QAM



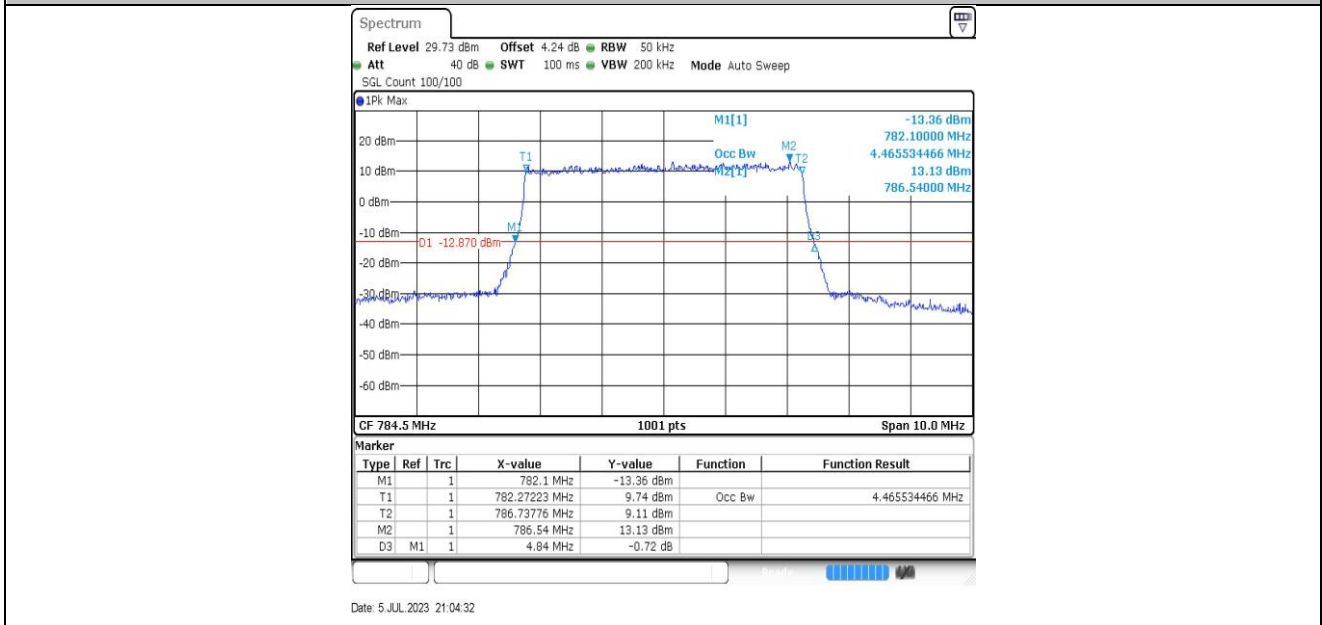
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### 5MHz-23230 16QAM

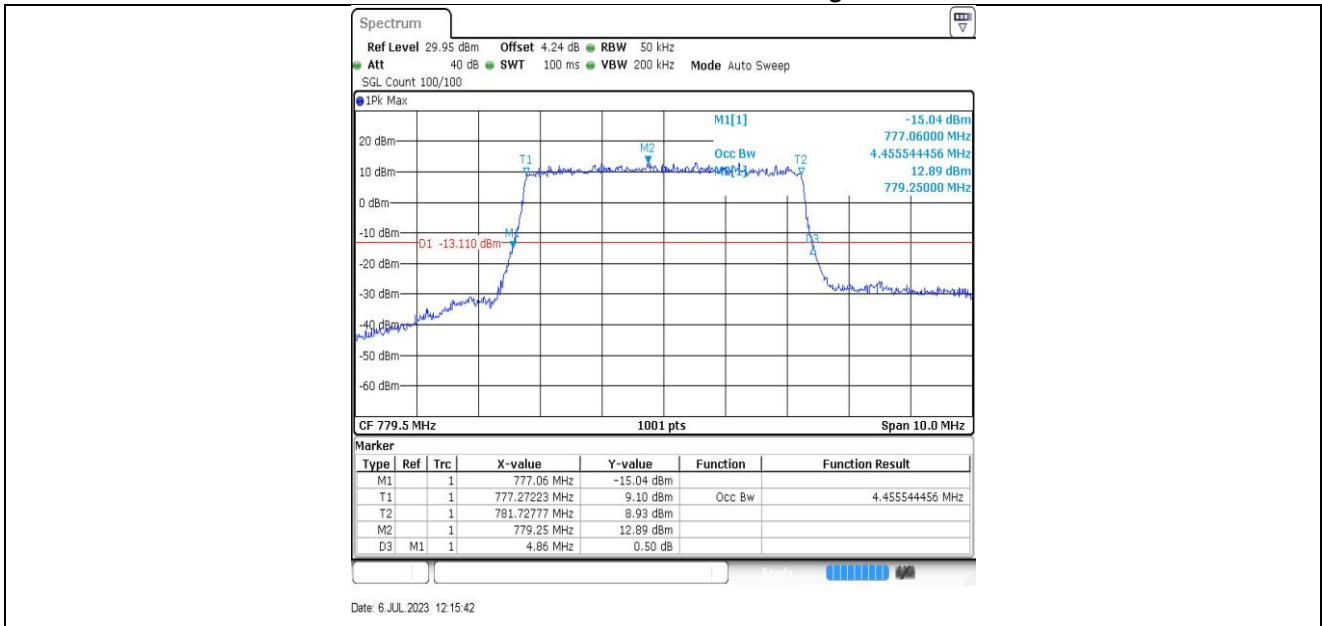


### 5MHz-23255 16QAM

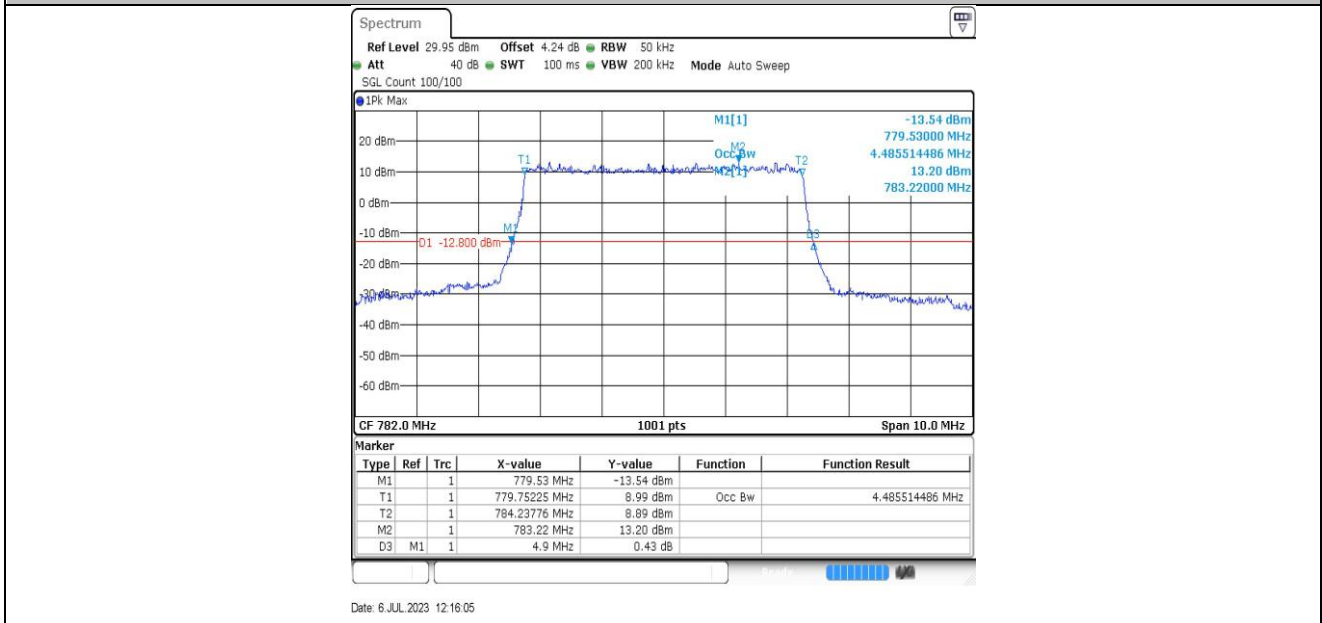


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### 5MHz-23205 64QAM



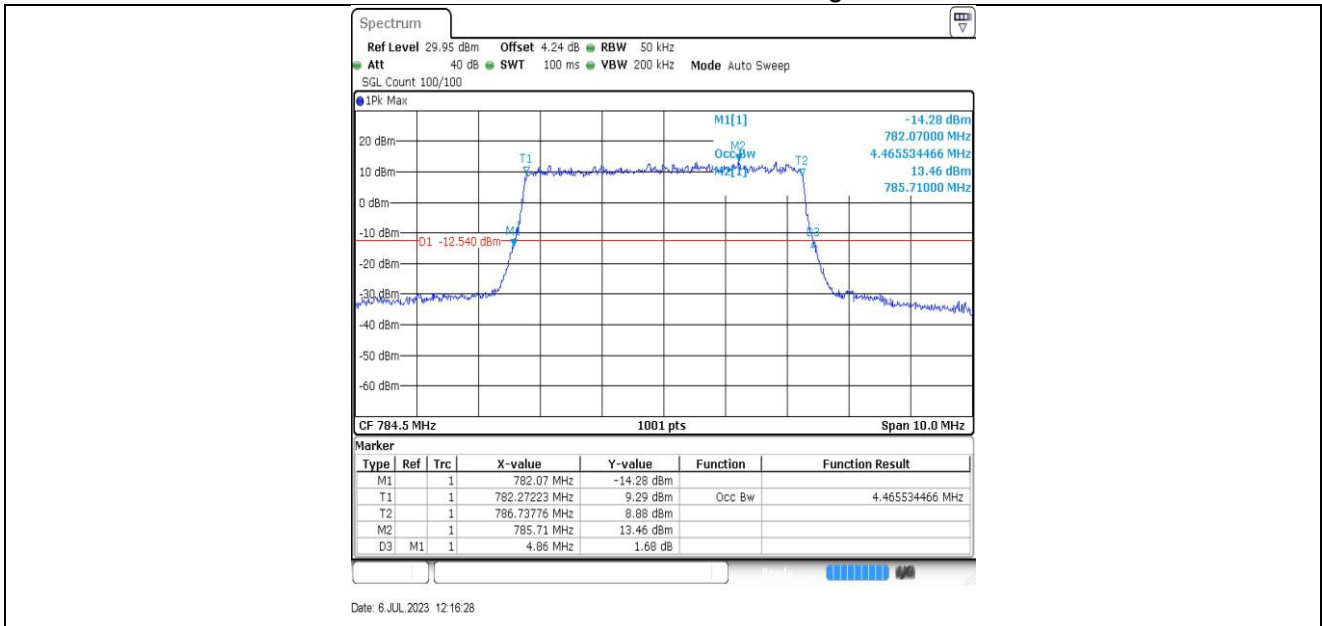
### 5MHz-23230 64QAM



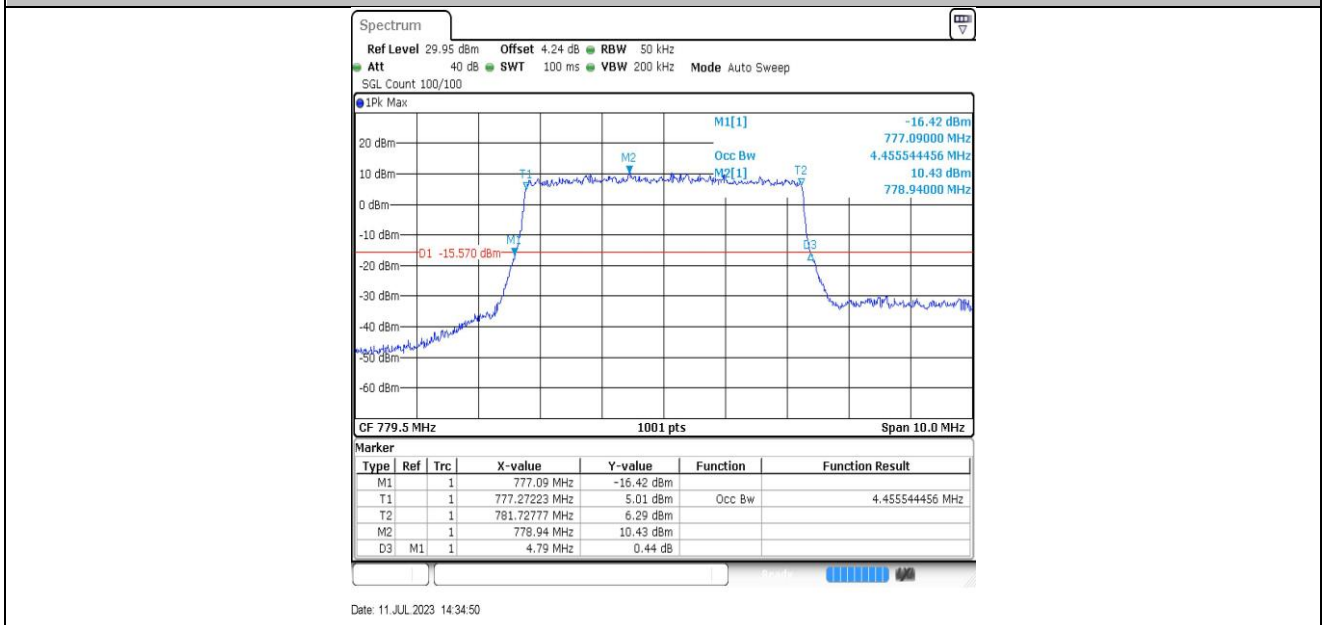
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### 5MHz-23255 64QAM



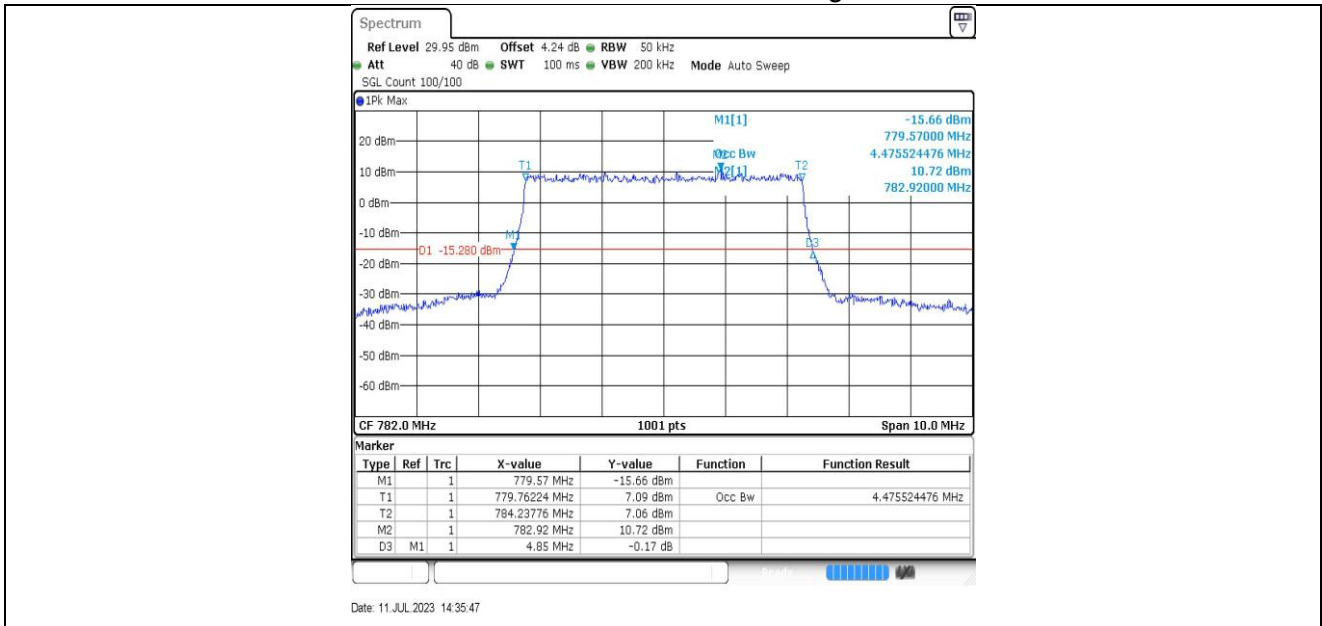
### 5MHz-23205 256QAM



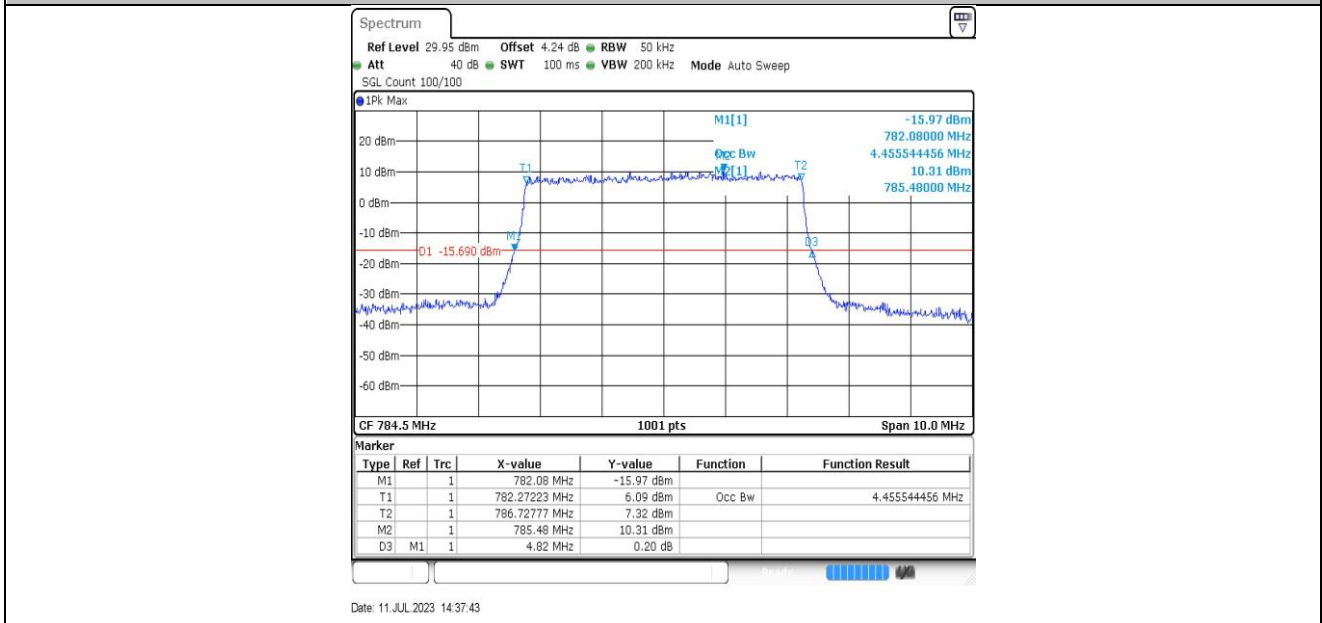
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### 5MHz-23230 256QAM

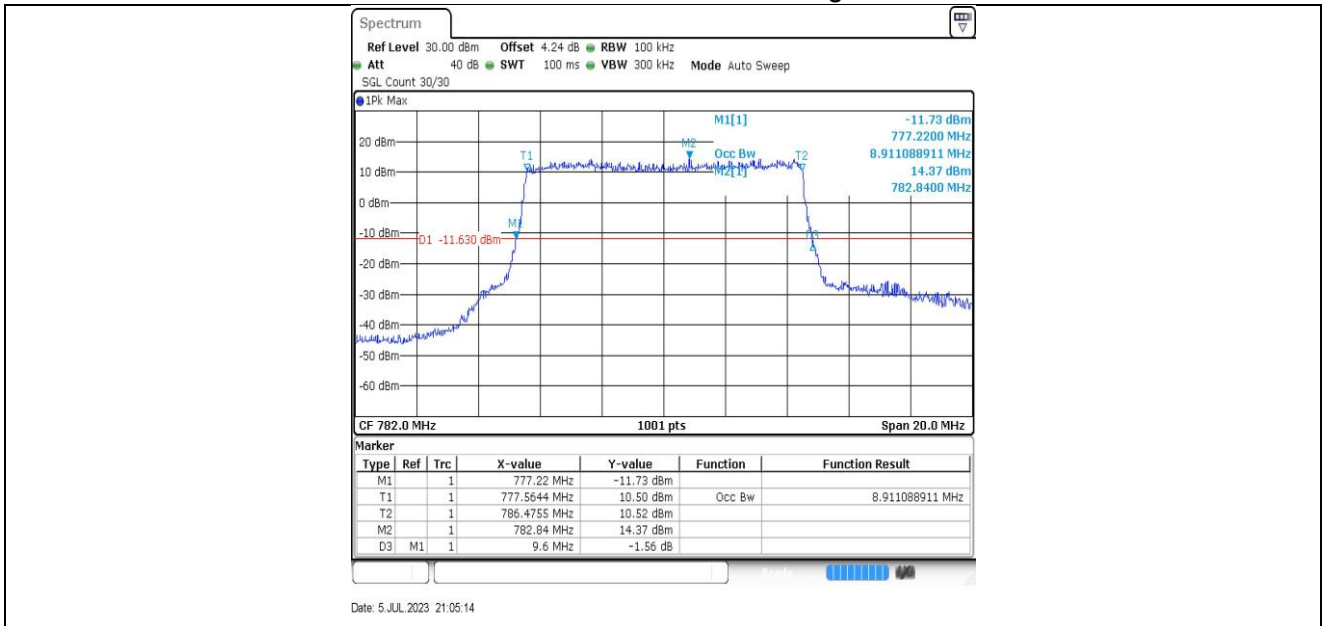


### 5MHz-23255 256QAM

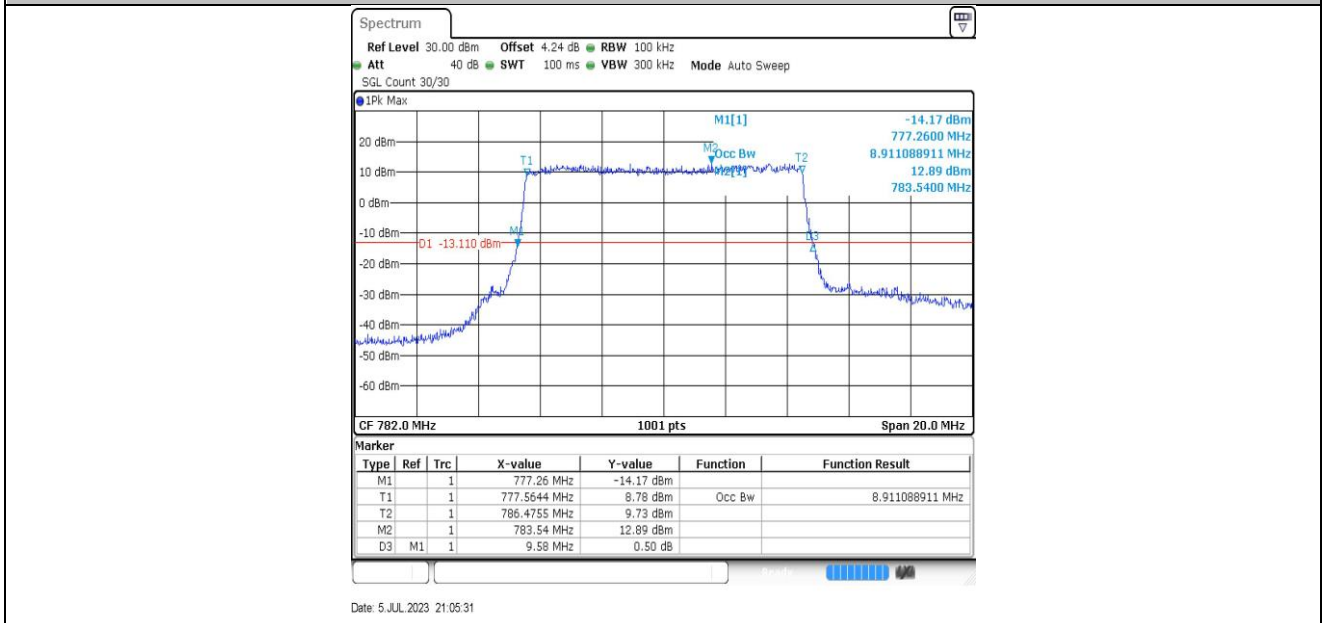


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### 10MHz-23230 QPSK



### 10MHz-23230 16QAM

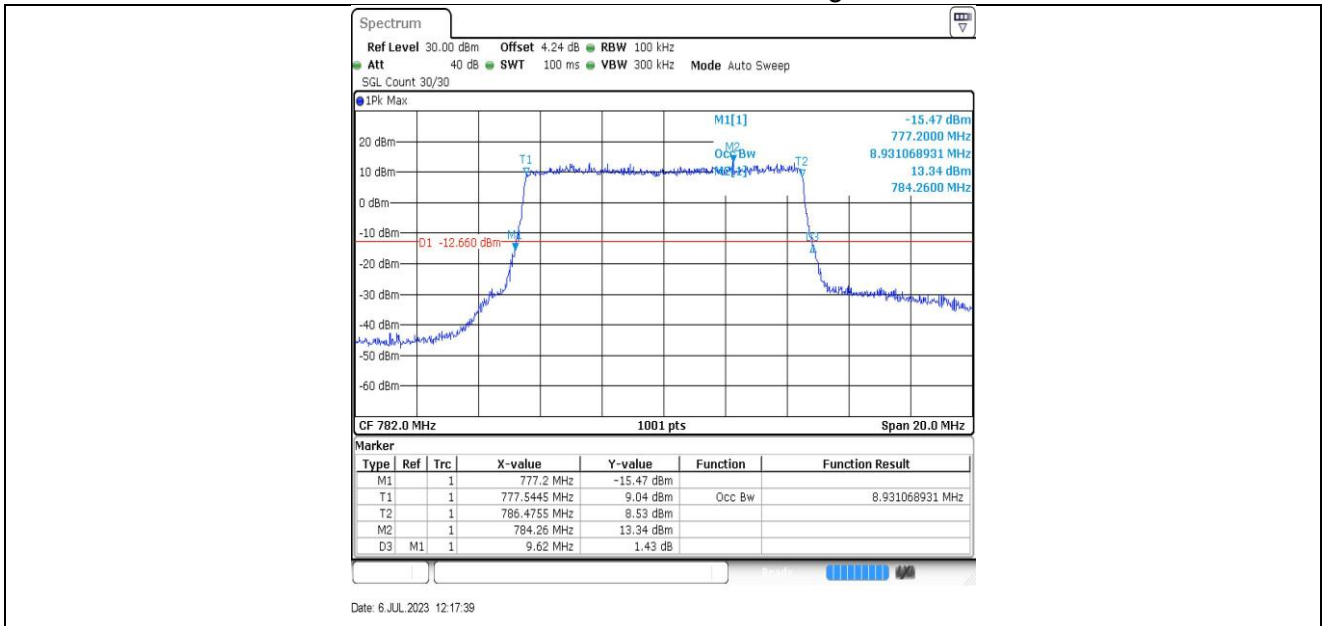


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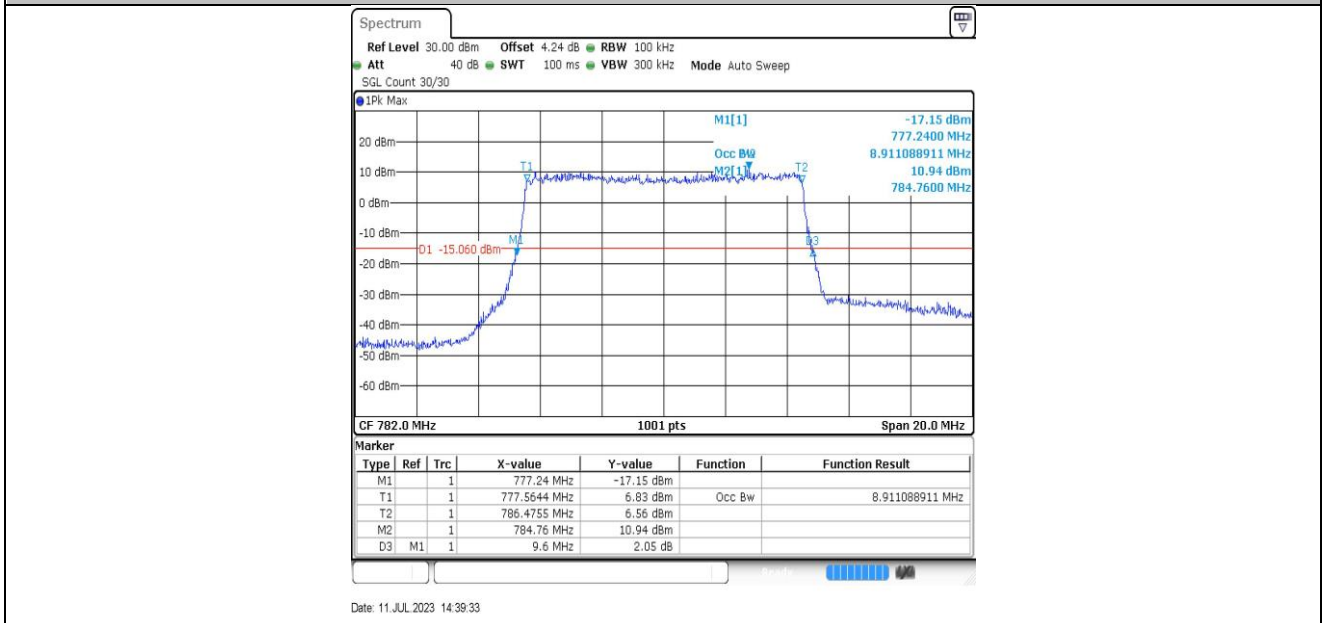
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### 10MHz-23230 64QAM



### 10MHz-23230 256QAM



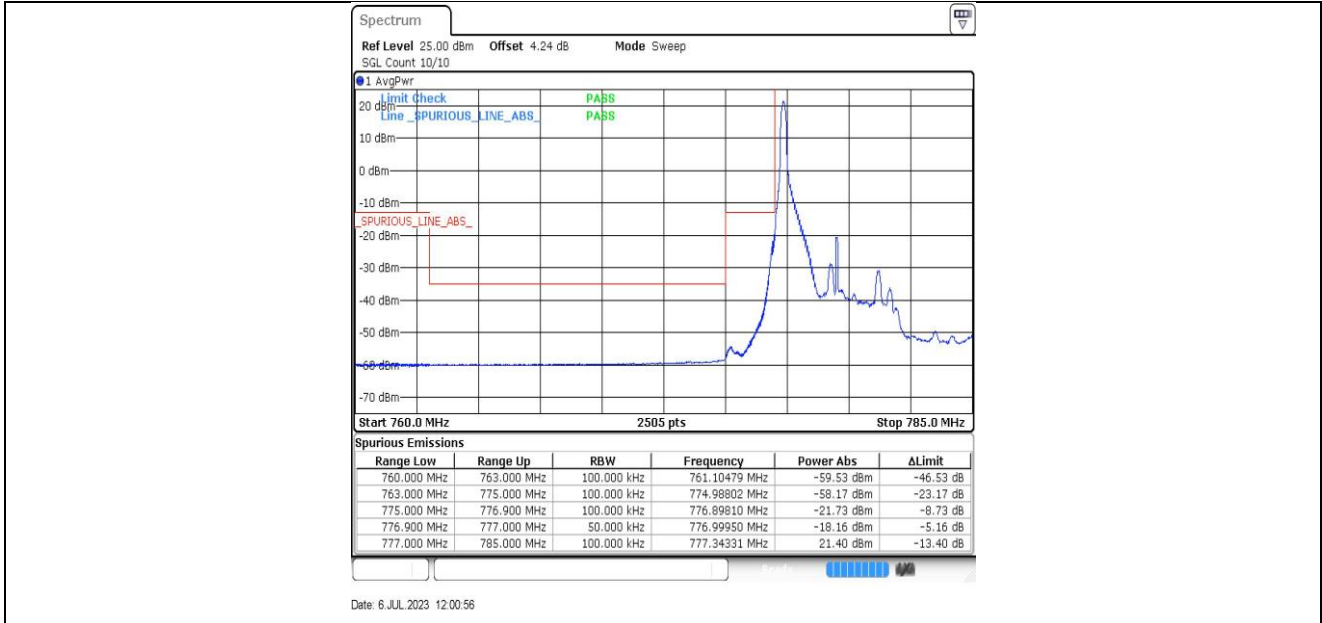
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### Band Edge

### Test Graphs



5MHz-23205



5MHz-23205



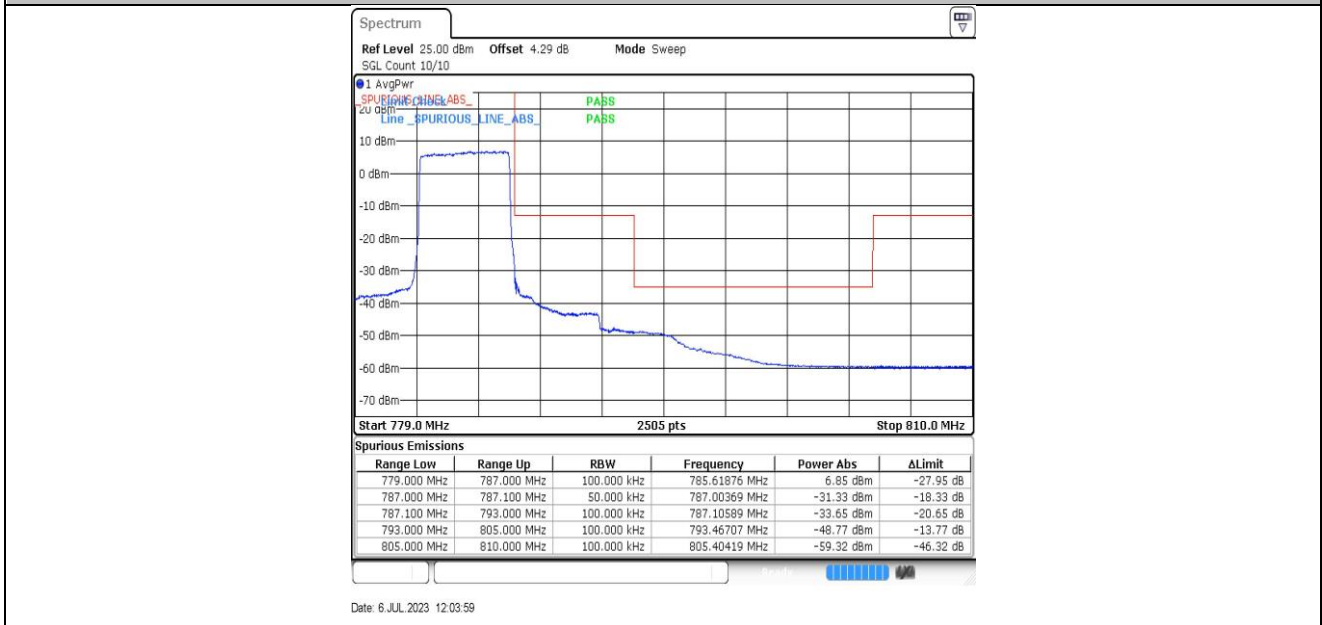
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5MHz-23255



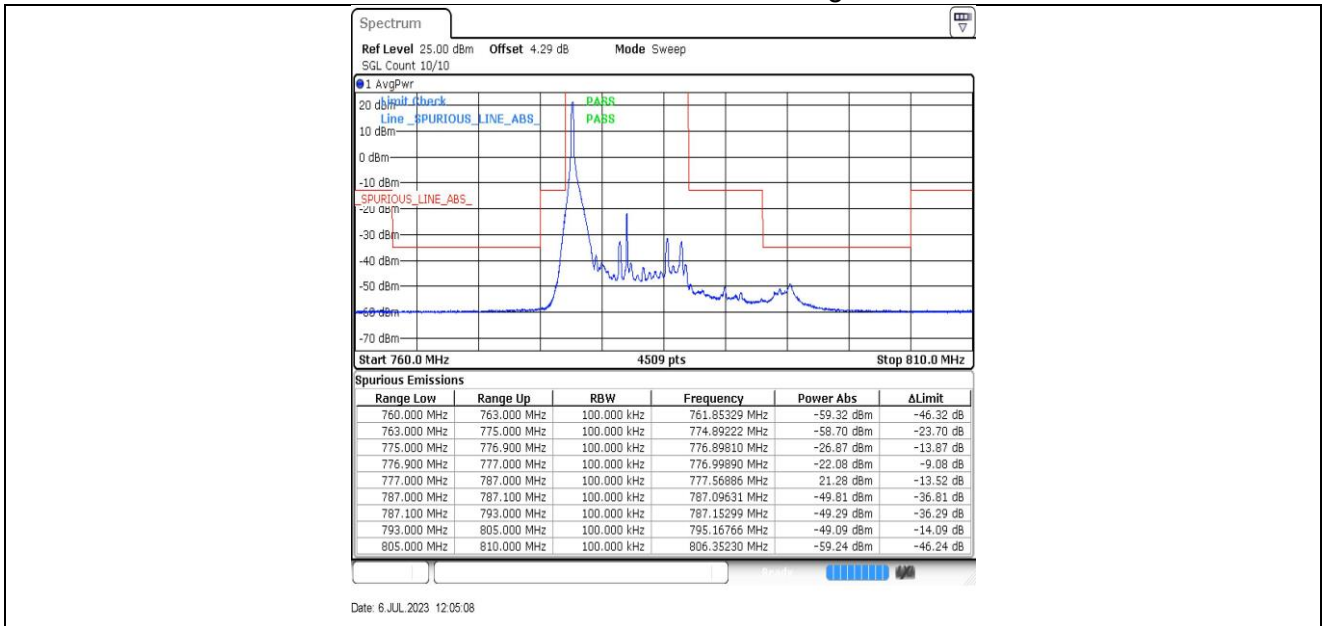
5MHz-23255



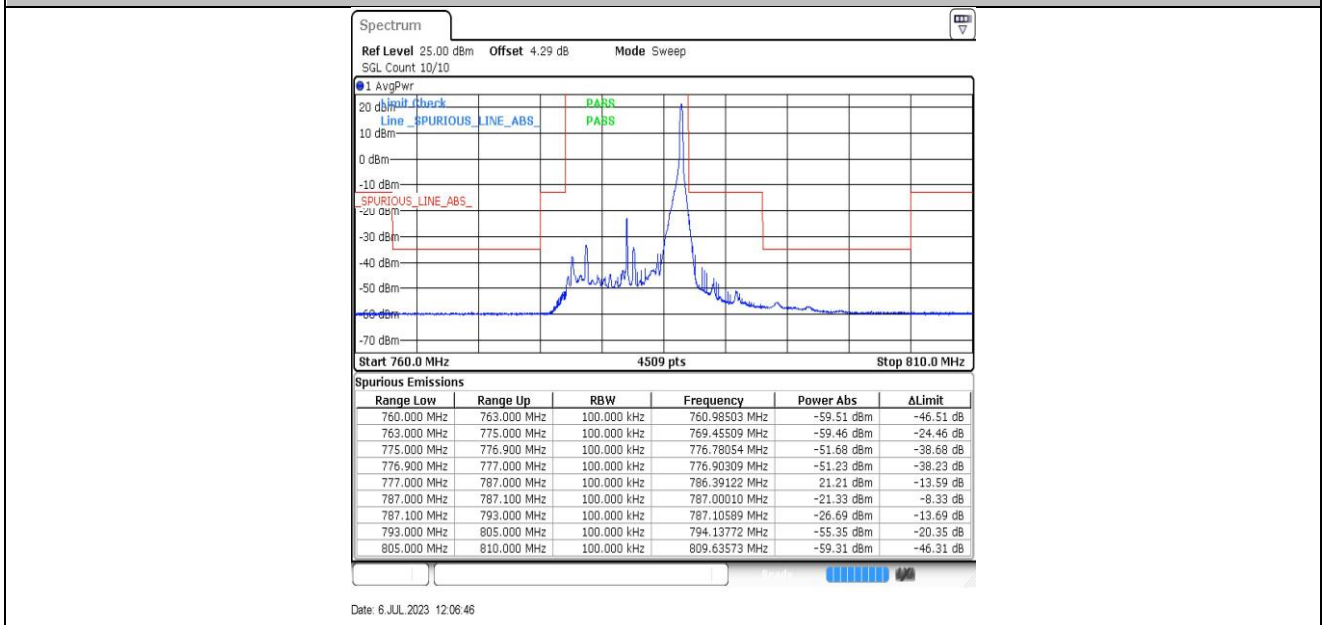
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10MHz-23230



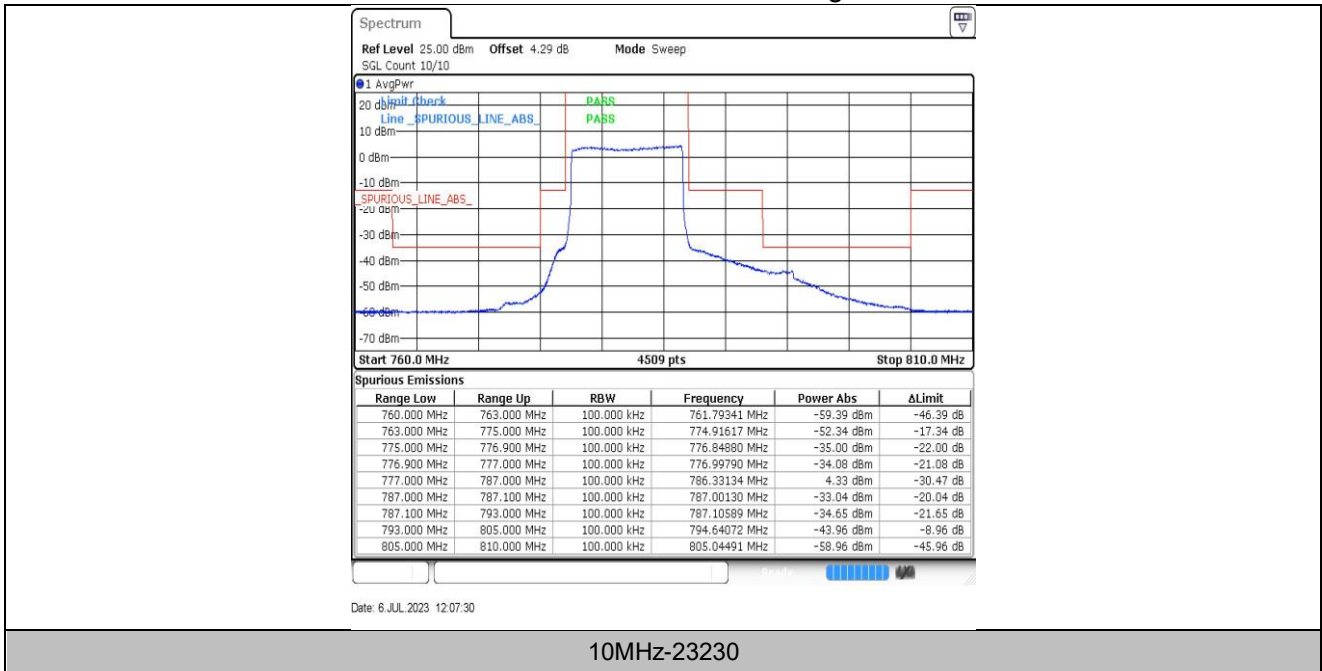
10MHz-23230



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10MHz-23230



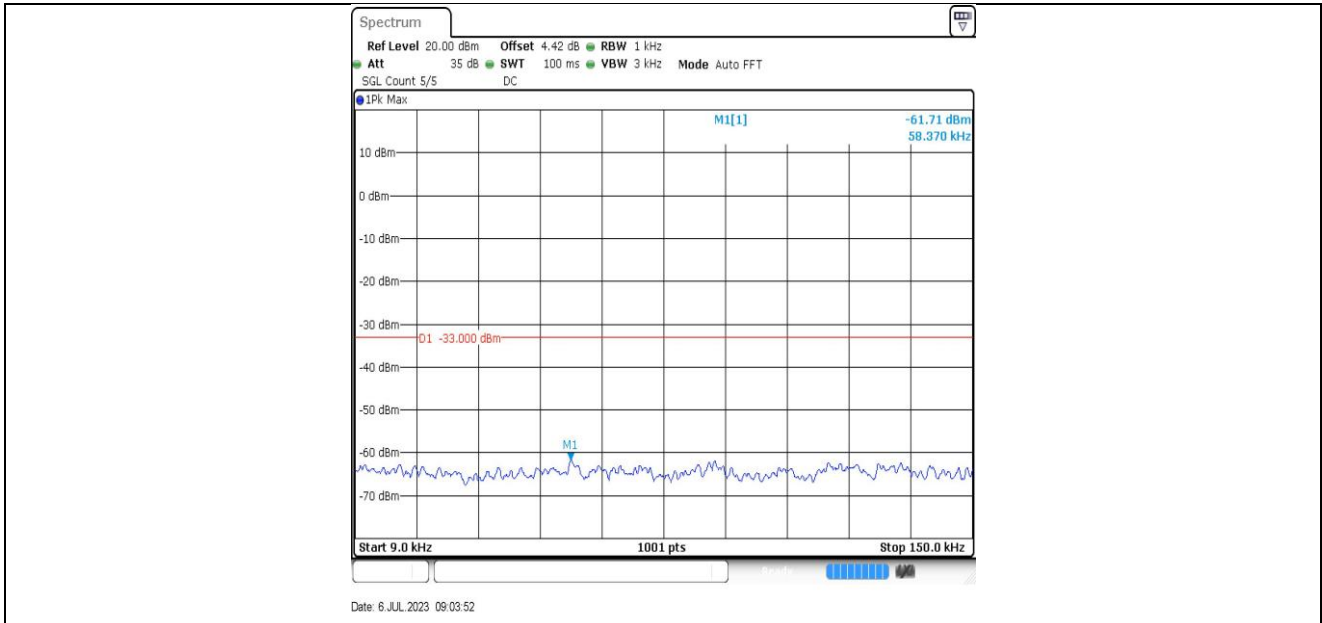
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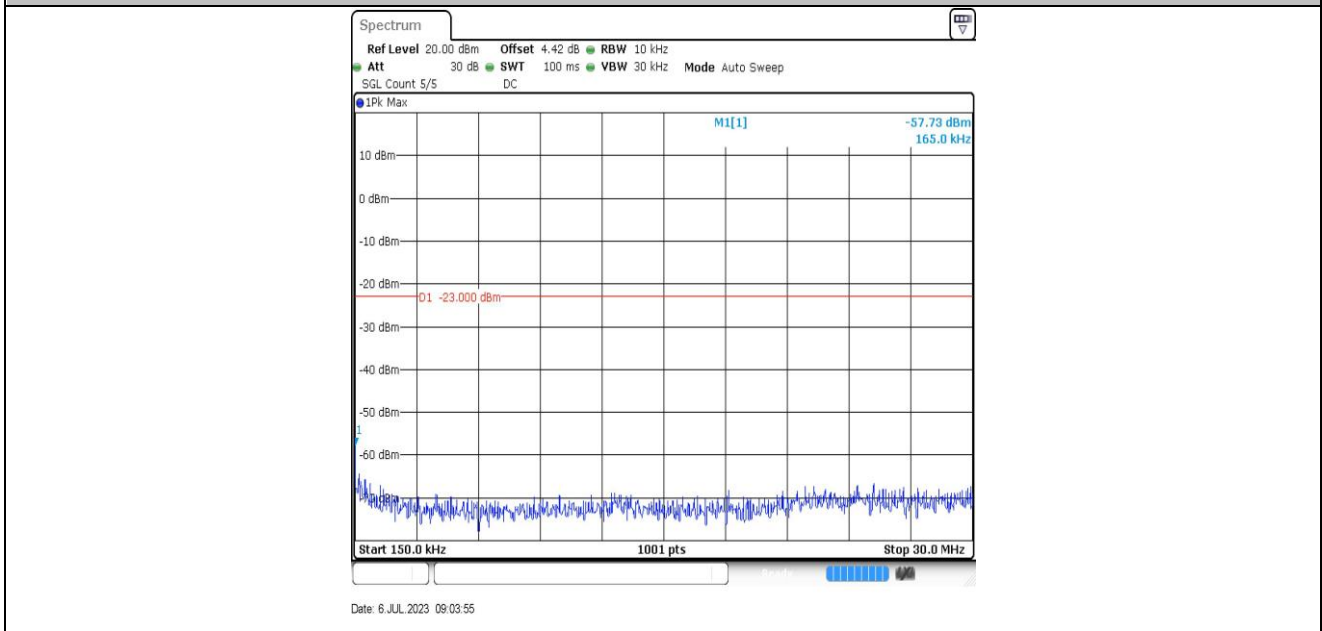
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### Conducted Spurious Emission

#### Test Graphs



10MHz-23230



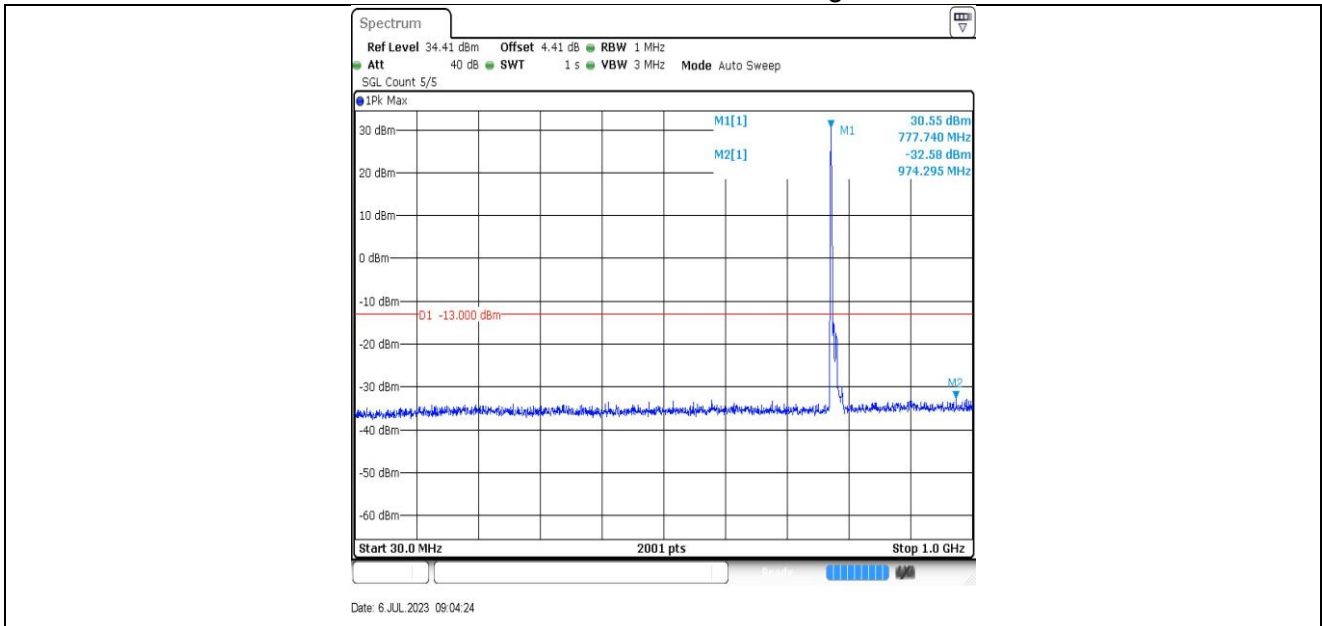
10MHz-23230



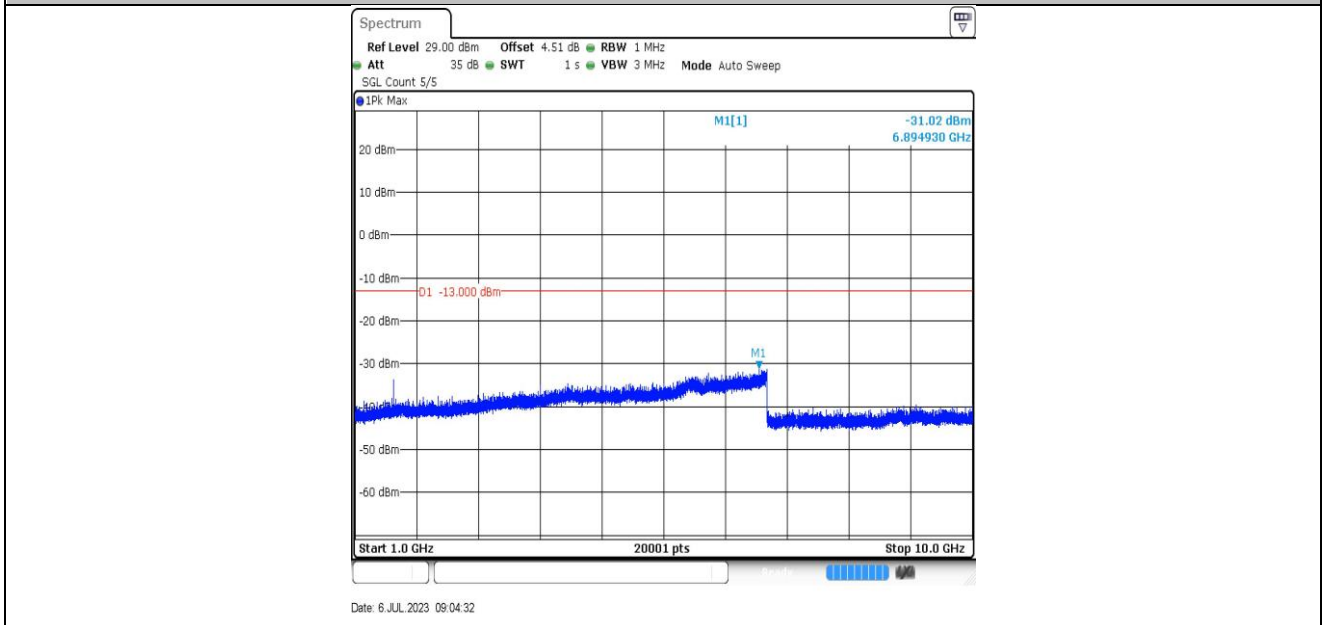
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10MHz-23230



10MHz-23230



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## Field Strength of Spurious Radiation

Test Band = LTE Band 13 10M\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	49.54	-49.89	24.92	-70.68	-13.00	57.68	Horizontal
2	2332.77	44.58	-49.25	27.10	-72.83	-13.00	59.83	Horizontal
3	3110.36	44.73	-48.89	28.54	-70.87	-13.00	57.87	Horizontal
4	3887.95	44.07	-48.43	29.24	-70.37	-13.00	57.37	Horizontal
5	4665.54	43.59	-48.07	30.70	-69.04	-13.00	56.04	Horizontal
6	5443.13	43.00	-47.42	32.56	-67.11	-13.00	54.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	49.38	-49.89	24.92	-70.84	-13.00	57.84	Vertical
2	2332.77	50.35	-49.25	27.10	-67.06	-13.00	54.06	Vertical
3	3110.36	44.12	-48.89	28.54	-71.48	-13.00	58.48	Vertical
4	3887.95	44.48	-48.43	29.24	-69.96	-13.00	56.96	Vertical
5	4665.54	43.84	-48.07	30.70	-68.79	-13.00	55.79	Vertical
6	5443.13	42.91	-47.42	32.56	-67.20	-13.00	54.20	Vertical



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**Test Band = LTE Band 13 5M\_ TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.68	55.30	-49.89	24.92	-64.93	-13.00	51.93	Horizontal
2	2332.02	48.86	-49.24	27.10	-68.54	-13.00	55.54	Horizontal
3	3109.36	43.92	-48.89	28.54	-71.69	-13.00	58.69	Horizontal
4	3886.7	44.00	-48.43	29.24	-70.45	-13.00	57.45	Horizontal
5	4664.04	43.40	-48.07	30.69	-69.23	-13.00	56.23	Horizontal
6	5441.38	42.48	-47.42	32.56	-67.64	-13.00	54.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.68	55.27	-49.89	24.92	-64.96	-13.00	51.96	Vertical
2	2332.02	61.18	-49.24	27.10	-56.22	-13.00	43.22	Vertical
3	3109.36	43.87	-48.89	28.54	-71.74	-13.00	58.74	Vertical
4	3886.7	43.79	-48.43	29.24	-70.66	-13.00	57.66	Vertical
5	4664.04	44.03	-48.07	30.69	-68.60	-13.00	55.60	Vertical
6	5441.38	43.08	-47.42	32.56	-67.04	-13.00	54.04	Vertical



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**Test Band = LTE Band 13 5M\_ TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	50.43	-49.89	24.94	-69.78	-40.00	29.78	Horizontal
2	2339.52	56.87	-49.27	27.11	-60.55	-13.00	47.55	Horizontal
3	3119.36	43.83	-48.86	28.55	-71.74	-13.00	58.74	Horizontal
4	3899.2	44.53	-48.43	29.26	-69.90	-13.00	56.90	Horizontal
5	4679.04	43.17	-48.07	30.73	-69.43	-13.00	56.43	Horizontal
6	5458.88	42.92	-47.41	32.60	-67.15	-13.00	54.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	50.86	-49.89	24.94	-69.35	-40.00	29.35	Vertical
2	2339.52	51.77	-49.27	27.11	-65.65	-13.00	52.65	Vertical
3	3119.36	44.22	-48.86	28.55	-71.35	-13.00	58.35	Vertical
4	3899.2	44.13	-48.43	29.26	-70.30	-13.00	57.30	Vertical
5	4679.04	43.10	-48.07	30.73	-69.50	-13.00	56.50	Vertical
6	5458.88	42.78	-47.41	32.60	-67.29	-13.00	54.29	Vertical



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**Test Band = LTE Band 13 5M\_ TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.68	51.19	-49.90	24.96	-69.01	-40.00	29.01	Horizontal
2	2347.02	45.69	-49.30	27.12	-71.75	-13.00	58.75	Horizontal
3	3129.36	44.97	-48.83	28.55	-70.57	-13.00	57.57	Horizontal
4	3911.7	44.20	-48.42	29.28	-70.20	-13.00	57.20	Horizontal
5	4694.04	42.96	-48.08	30.77	-69.61	-13.00	56.61	Horizontal
6	5476.38	42.78	-47.40	32.64	-67.24	-13.00	54.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.68	49.63	-49.90	24.96	-70.57	-40.00	30.57	Vertical
2	2347.02	52.74	-49.30	27.12	-64.70	-13.00	51.70	Vertical
3	3129.36	44.93	-48.83	28.55	-70.61	-13.00	57.61	Vertical
4	3911.7	44.25	-48.42	29.28	-70.15	-13.00	57.15	Vertical
5	4694.04	43.23	-48.08	30.77	-69.34	-13.00	56.34	Vertical
6	5476.38	43.13	-47.40	32.64	-66.89	-13.00	53.89	Vertical



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**Test Band = LTE 13A\_48A\_TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7235.0417	43.68	-45.65	36.16	-61.06	-40.00	21.06	Horizontal
2	8869	41.30	-43.65	37.42	-60.19	-40.00	20.19	Horizontal
3	10312.7292	42.25	-41.10	38.78	-55.33	-40.00	15.33	Horizontal
4	11378.875	38.30	-39.87	39.32	-57.50	-40.00	17.50	Horizontal
5	13717.6875	37.02	-38.05	40.25	-56.04	-40.00	16.04	Horizontal
6	17247.7083	34.98	-37.14	40.49	-56.94	-40.00	16.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232.1667	43.69	-45.63	36.16	-61.04	-40.00	21.04	Vertical
2	8504.8333	41.18	-43.70	36.91	-60.87	-40.00	20.87	Vertical
3	10312.7292	42.35	-41.10	38.78	-55.23	-40.00	15.23	Vertical
4	11994.6042	37.72	-38.63	39.20	-56.97	-40.00	16.97	Vertical
5	13661.625	36.67	-38.08	40.12	-56.54	-40.00	16.54	Vertical
6	17967.4167	34.65	-37.07	45.09	-52.59	-40.00	12.59	Vertical



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**Test Band = LTE 13A\_48A\_TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7306.9167	43.68	-45.98	36.34	-61.22	-40.00	21.22	Horizontal
2	8758.7917	41.99	-43.79	37.26	-59.80	-40.00	19.80	Horizontal
3	10312.7292	42.56	-41.10	38.78	-55.02	-40.00	15.02	Horizontal
4	12001.3125	37.14	-38.57	39.20	-57.49	-40.00	17.49	Horizontal
5	13725.3542	36.76	-38.09	40.27	-56.33	-40.00	16.33	Horizontal
6	17618.5833	34.79	-36.93	42.86	-54.55	-40.00	14.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7657.1875	43.22	-45.03	36.61	-60.46	-40.00	20.46	Vertical
2	9338.5833	41.79	-42.89	37.90	-58.46	-40.00	18.46	Vertical
3	10312.7292	42.45	-41.10	38.78	-55.13	-40.00	15.13	Vertical
4	12026.2292	37.36	-38.78	39.18	-57.50	-40.00	17.50	Vertical
5	13685.1042	36.98	-38.00	40.18	-56.10	-40.00	16.10	Vertical
6	17966.9375	34.95	-37.07	45.09	-52.29	-40.00	12.29	Vertical



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**Test Band = LTE 13A\_48A\_TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7225.9375	44.04	-45.60	36.14	-60.67	-40.00	20.67	Horizontal
2	8743.4583	42.13	-43.76	37.24	-59.65	-40.00	19.65	Horizontal
3	10312.7292	42.36	-41.10	38.78	-55.22	-40.00	15.22	Horizontal
4	12023.8333	37.68	-38.76	39.19	-57.15	-40.00	17.15	Horizontal
5	13899.7708	36.86	-38.34	40.67	-56.07	-40.00	16.07	Horizontal
6	17873.9792	34.01	-37.46	44.49	-54.21	-40.00	14.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7831.6042	43.47	-44.92	36.40	-60.31	-40.00	20.31	Vertical
2	9305.5208	41.60	-42.93	37.87	-58.72	-40.00	18.72	Vertical
3	10312.7292	41.93	-41.10	38.78	-55.65	-40.00	15.65	Vertical
4	12389.9167	36.92	-38.41	38.97	-57.79	-40.00	17.79	Vertical
5	13854.7292	36.98	-38.42	40.57	-56.14	-40.00	16.14	Vertical
6	17447.5208	35.32	-36.69	41.76	-54.87	-40.00	14.87	Vertical



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**Test Band = LTE 13A\_66A\_TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3110.25	58.91	-48.44	28.54	-56.24	-13.00	43.24	Horizontal
2	3993	45.03	-48.19	29.39	-69.03	-13.00	56.03	Horizontal
3	5550.75	44.49	-47.66	32.71	-65.72	-13.00	52.72	Horizontal
4	7670.25	42.21	-45.02	36.60	-61.47	-13.00	48.47	Horizontal
5	10312.5	42.68	-41.16	38.78	-54.96	-13.00	41.96	Horizontal
6	14776.5	35.10	-36.81	40.28	-56.69	-13.00	43.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3110.25	65.34	-48.44	28.54	-49.81	-13.00	36.81	Vertical
2	4098.75	44.84	-48.06	29.58	-68.90	-13.00	55.90	Vertical
3	5259.75	45.22	-47.82	32.12	-65.74	-13.00	52.74	Vertical
4	7674.75	42.48	-45.05	36.59	-61.24	-13.00	48.24	Vertical
5	10312.5	41.56	-41.16	38.78	-56.08	-13.00	43.08	Vertical
6	14769.75	35.25	-36.80	40.28	-56.52	-13.00	43.52	Vertical



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**Test Band = LTE 13A\_66A\_TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3110.25	57.80	-48.44	28.54	-57.35	-13.00	44.35	Horizontal
2	4263.75	44.83	-47.99	29.87	-68.55	-13.00	55.55	Horizontal
3	5559	43.94	-47.66	32.71	-66.27	-13.00	53.27	Horizontal
4	7711.5	42.59	-45.18	36.55	-61.30	-13.00	48.30	Horizontal
5	10312.5	41.30	-41.16	38.78	-56.34	-13.00	43.34	Horizontal
6	14773.5	35.54	-36.80	40.28	-56.24	-13.00	43.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3110.25	65.73	-48.44	28.54	-49.42	-13.00	36.42	Vertical
2	4008.75	44.62	-48.17	29.42	-69.39	-13.00	56.39	Vertical
3	5496.75	44.35	-47.61	32.69	-65.83	-13.00	52.83	Vertical
4	7725	42.73	-45.14	36.53	-61.14	-13.00	48.14	Vertical
5	10312.5	42.00	-41.16	38.78	-55.64	-13.00	42.64	Vertical
6	14775.75	35.22	-36.81	40.28	-56.57	-13.00	43.57	Vertical



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**Test Band = LTE 13A\_66A\_TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3110.25	59.10	-48.44	28.54	-56.05	-13.00	43.05	Horizontal
2	4098	44.58	-48.06	29.58	-69.17	-13.00	56.17	Horizontal
3	5486.25	44.45	-47.63	32.67	-65.77	-13.00	52.77	Horizontal
4	7664.25	42.82	-44.98	36.60	-60.82	-13.00	47.82	Horizontal
5	10312.5	41.64	-41.16	38.78	-56.00	-13.00	43.00	Horizontal
6	14826.75	35.62	-36.99	40.24	-56.39	-13.00	43.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3110.25	67.14	-48.44	28.54	-48.01	-13.00	35.01	Vertical
2	4068.75	44.86	-48.10	29.52	-68.97	-13.00	55.97	Vertical
3	5561.25	44.03	-47.67	32.71	-66.18	-13.00	53.18	Vertical
4	7696.5	42.74	-45.19	36.56	-61.14	-13.00	48.14	Vertical
5	10312.5	41.08	-41.16	38.78	-56.56	-13.00	43.56	Vertical
6	14782.5	35.47	-36.82	40.27	-56.34	-13.00	43.34	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-4.20	-0.005371	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.20	-0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.10	0.000128	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-5.90	-0.007545	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.50	-0.004476	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.20	0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.40	0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	2.00	0.002558	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-3.50	-0.004476	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-0.30	-0.000384	PASS

---End of Attachment---



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