



# Appendix B.3

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

### 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
Band13	5MHz	64QAM	23230	1RB#24	22.05	23.30	34.77	PASS



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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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## 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



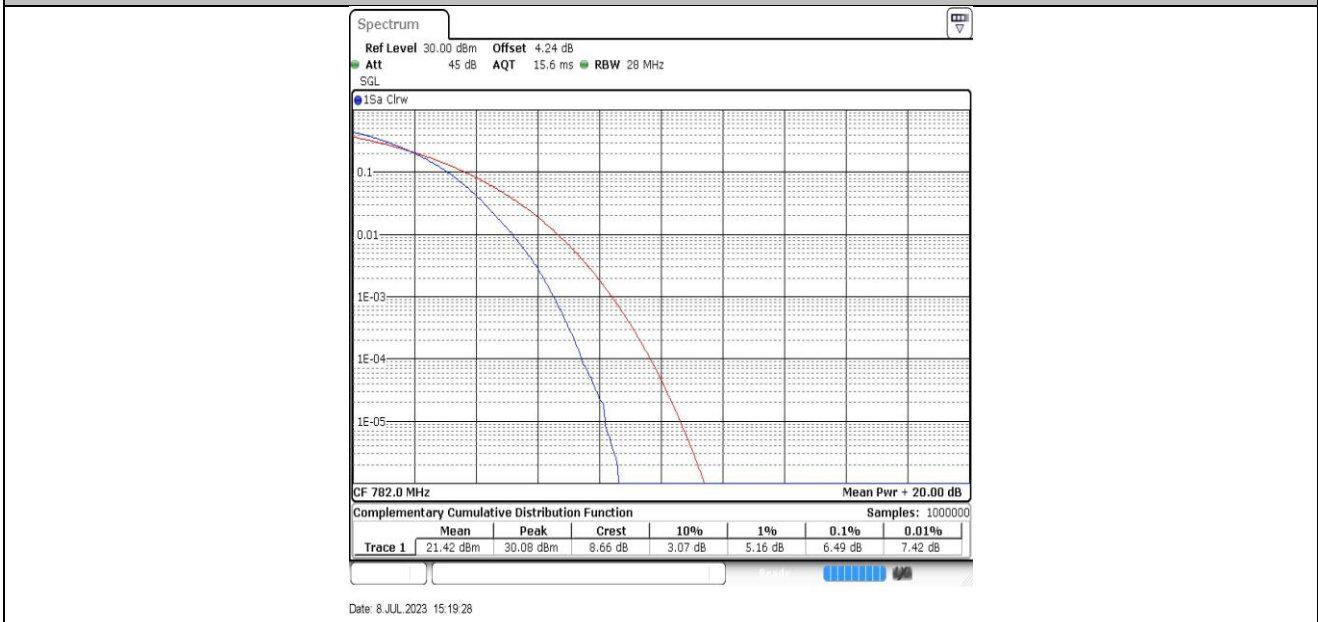
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### Test Graphs



10MHz-23230 QPSK



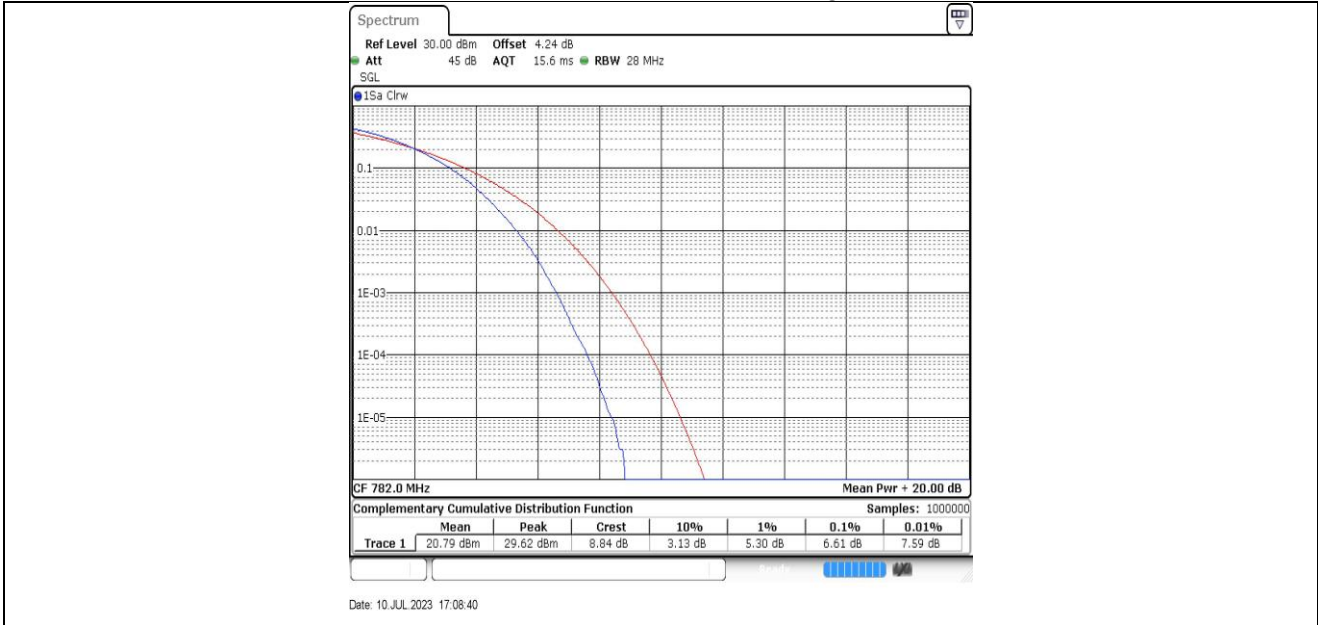
10MHz-23230 16QAM



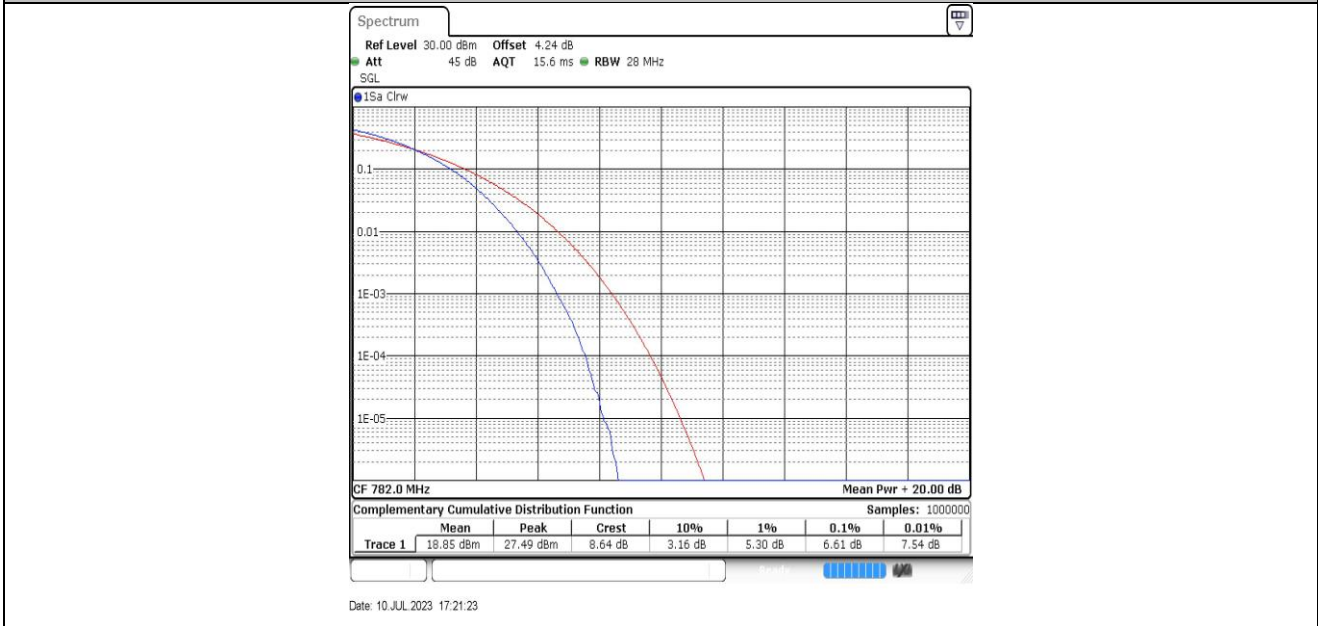
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10MHz-23230 64QAM



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

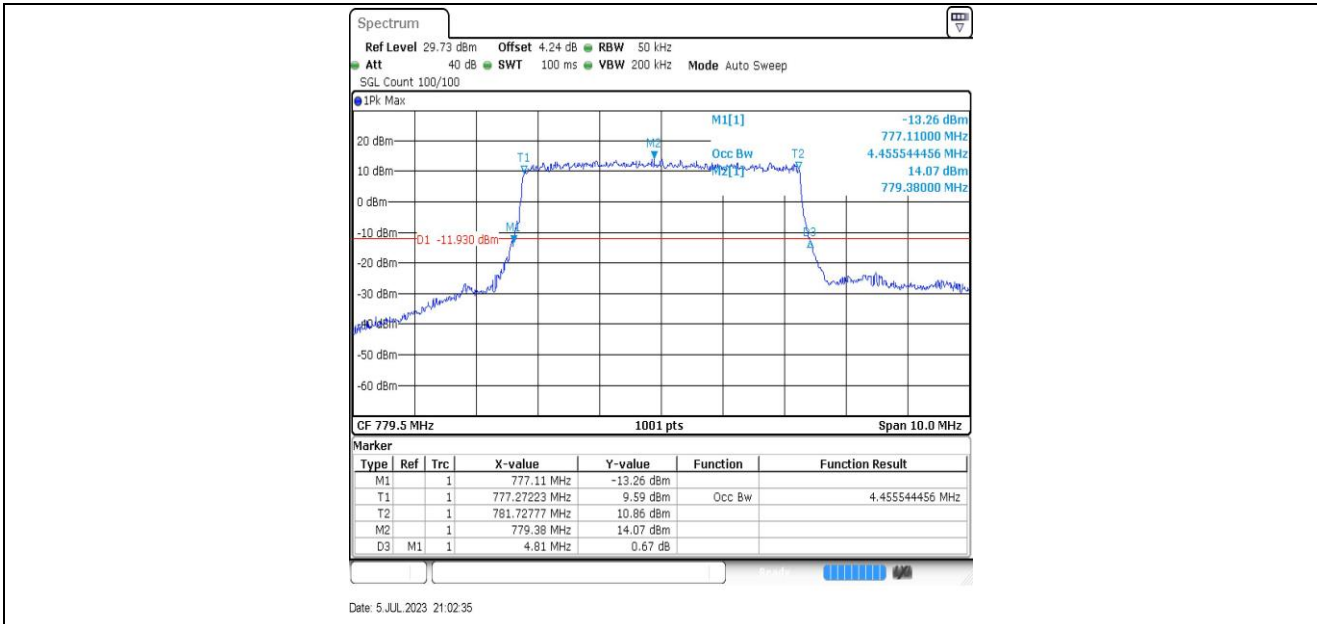


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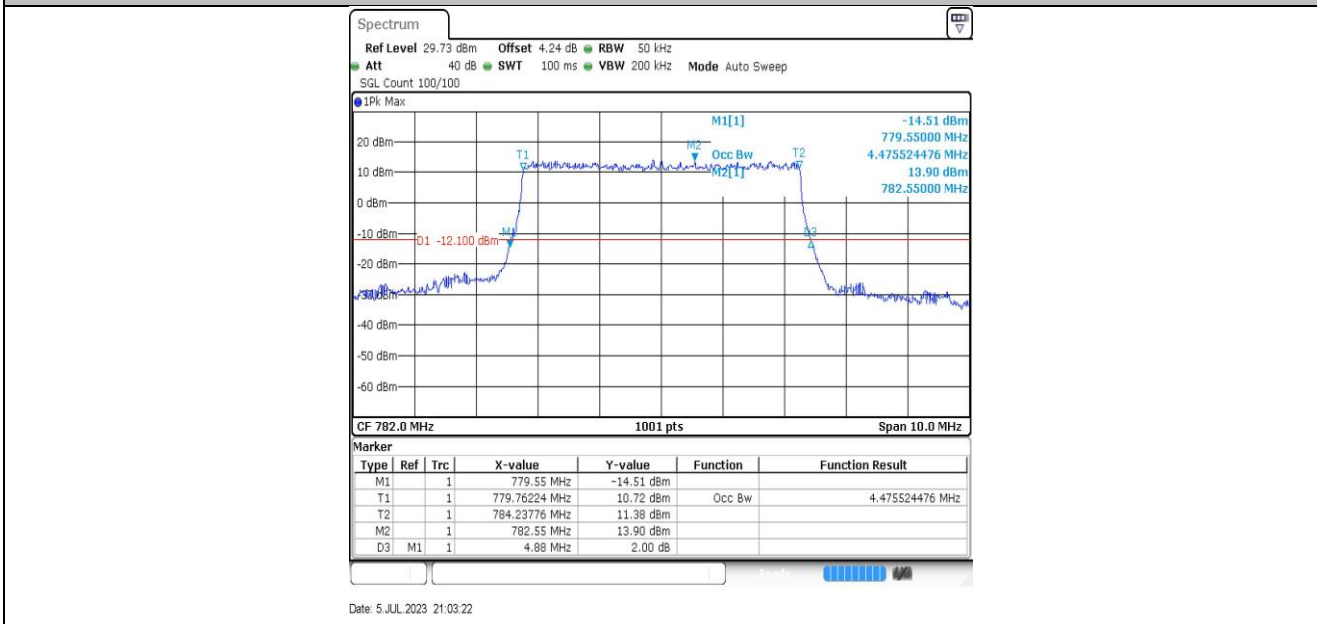
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### Test Graphs



5MHz-23205 QPSK



5MHz-23230 QPSK

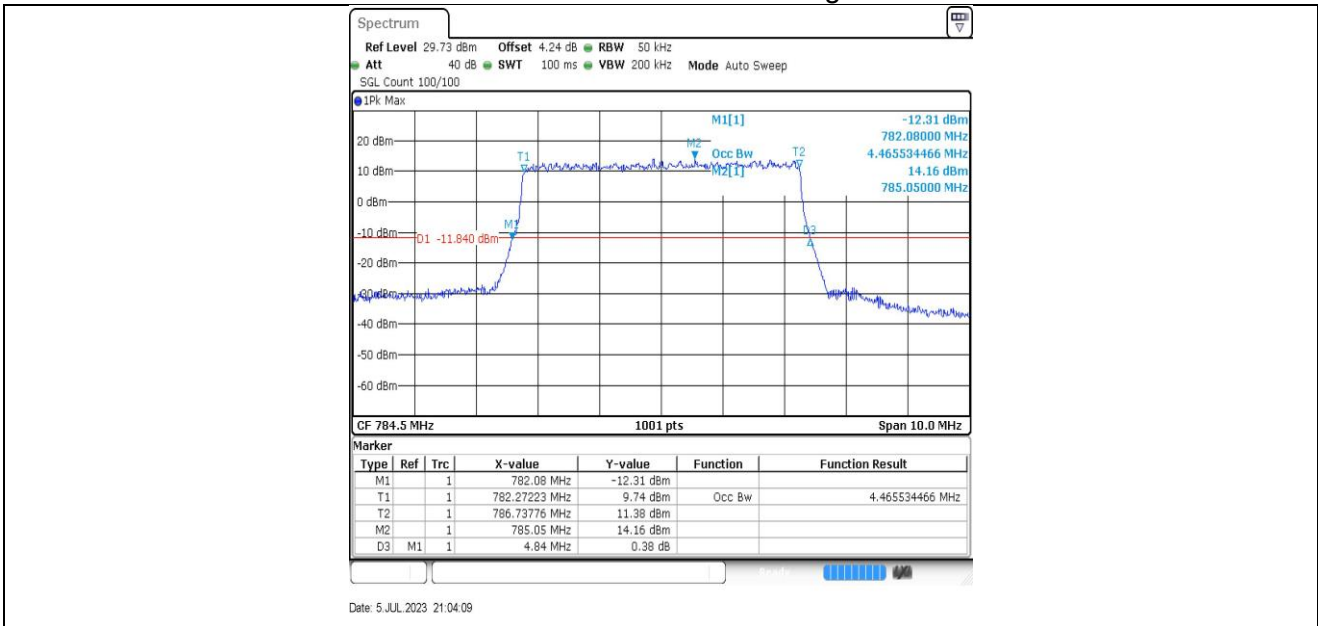


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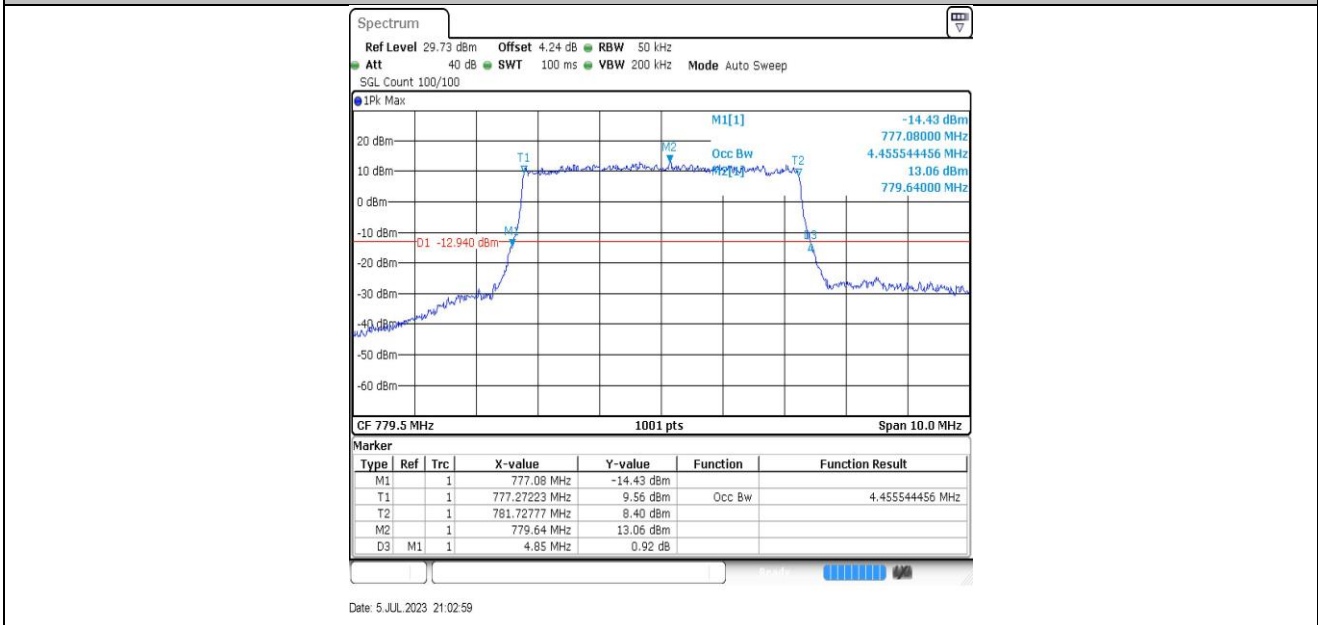
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### 5MHz-23255 QPSK



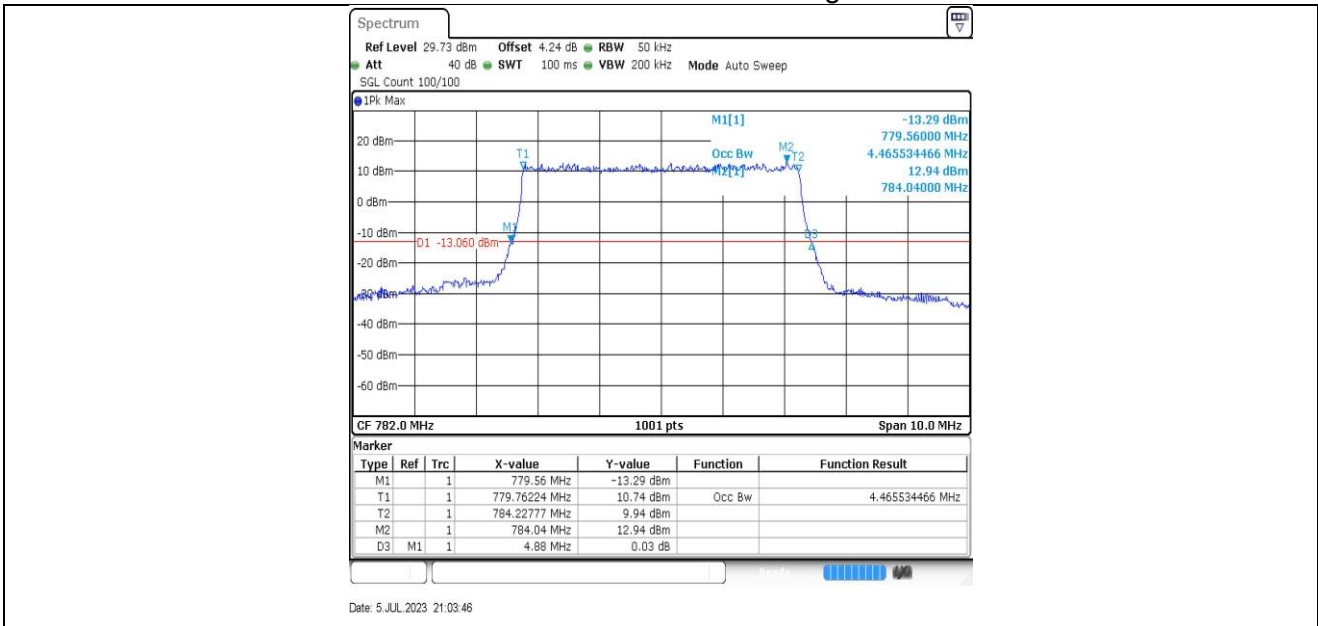
### 5MHz-23205 16QAM



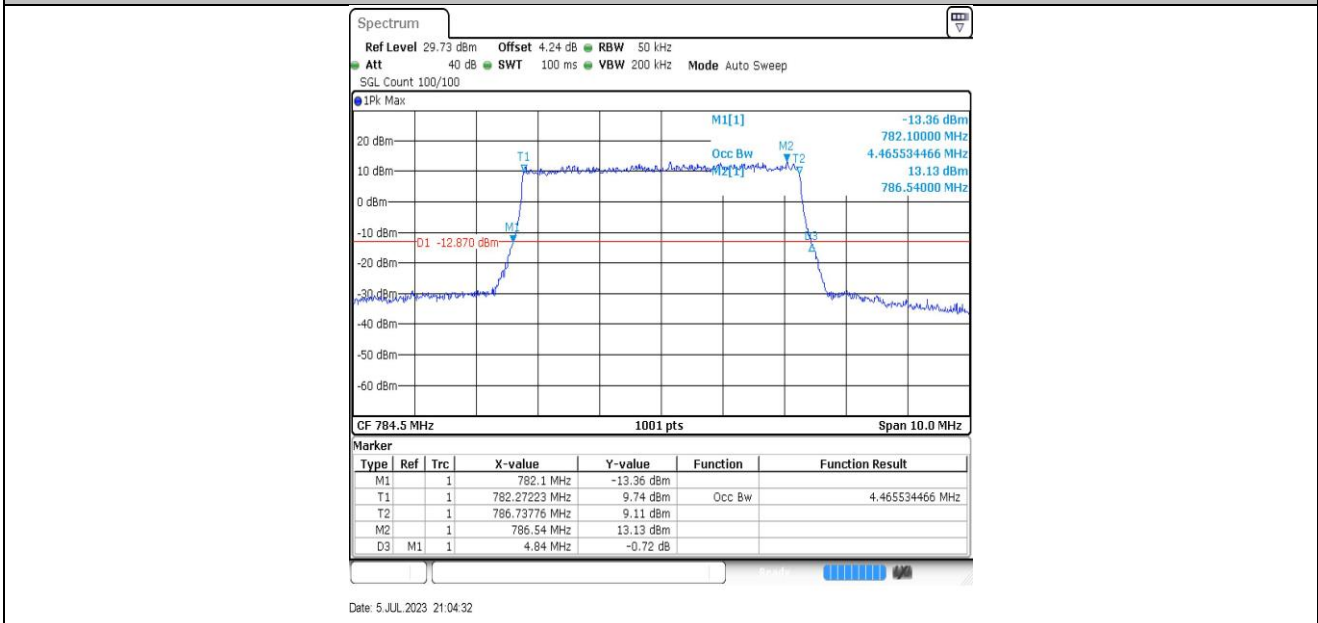
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### 5MHz-23230 16QAM

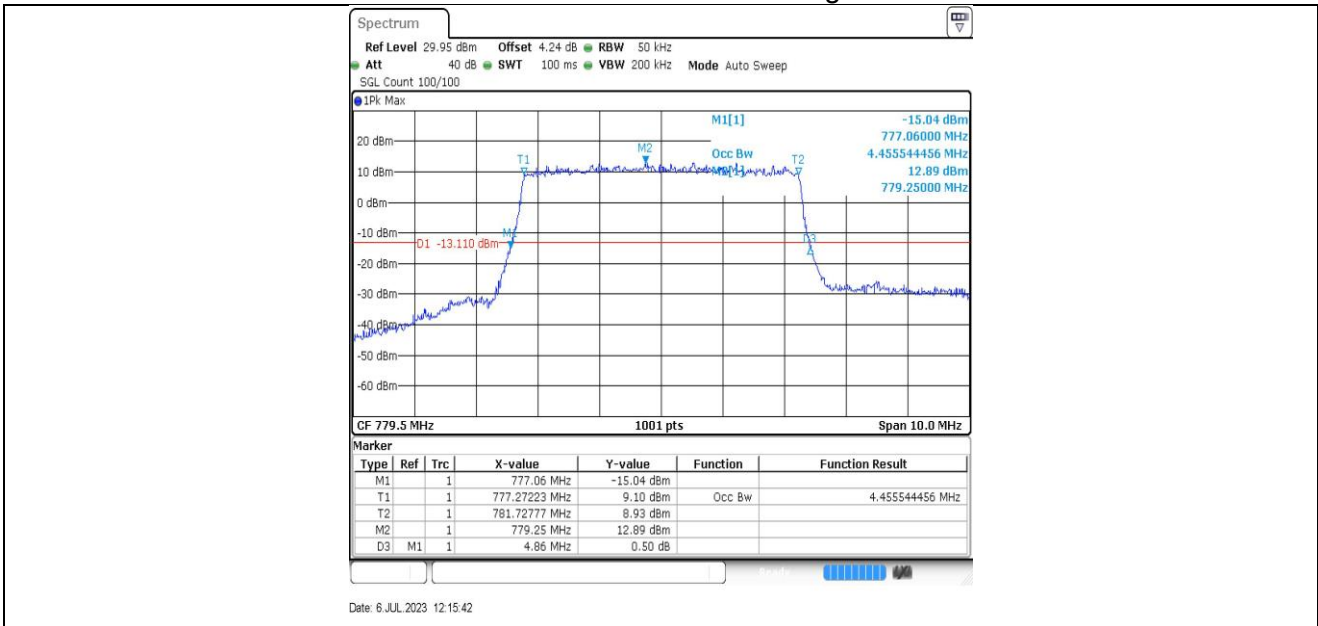


### 5MHz-23255 16QAM

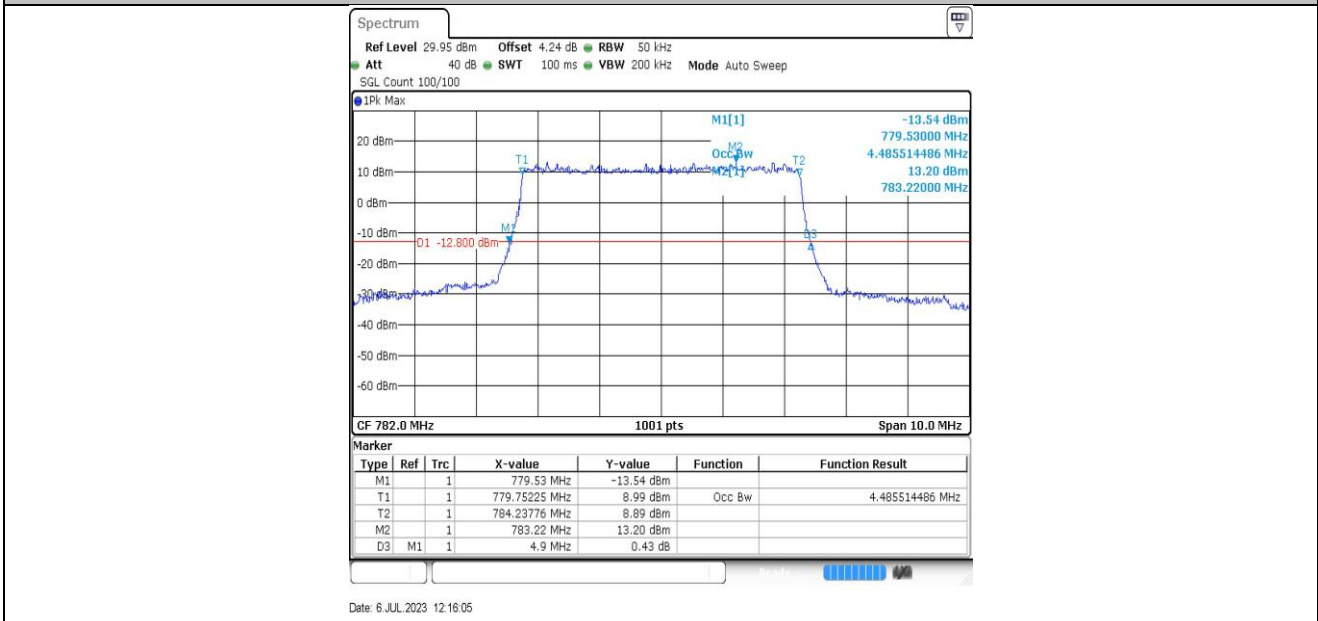


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### 5MHz-23205 64QAM



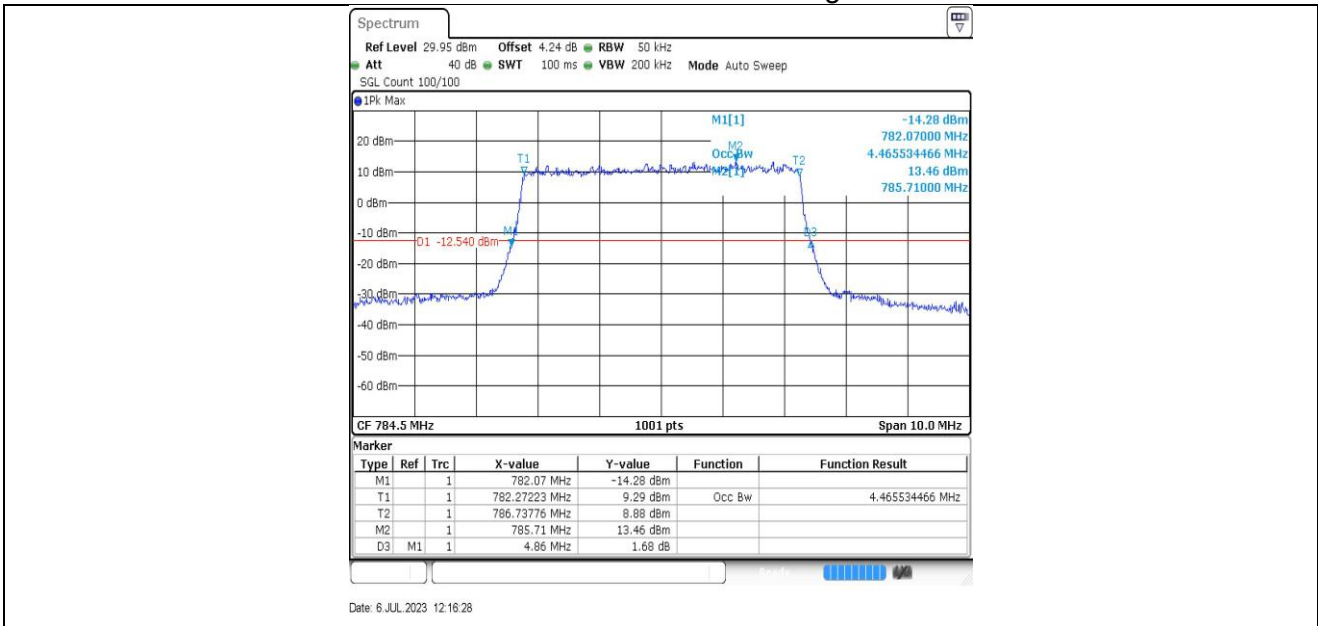
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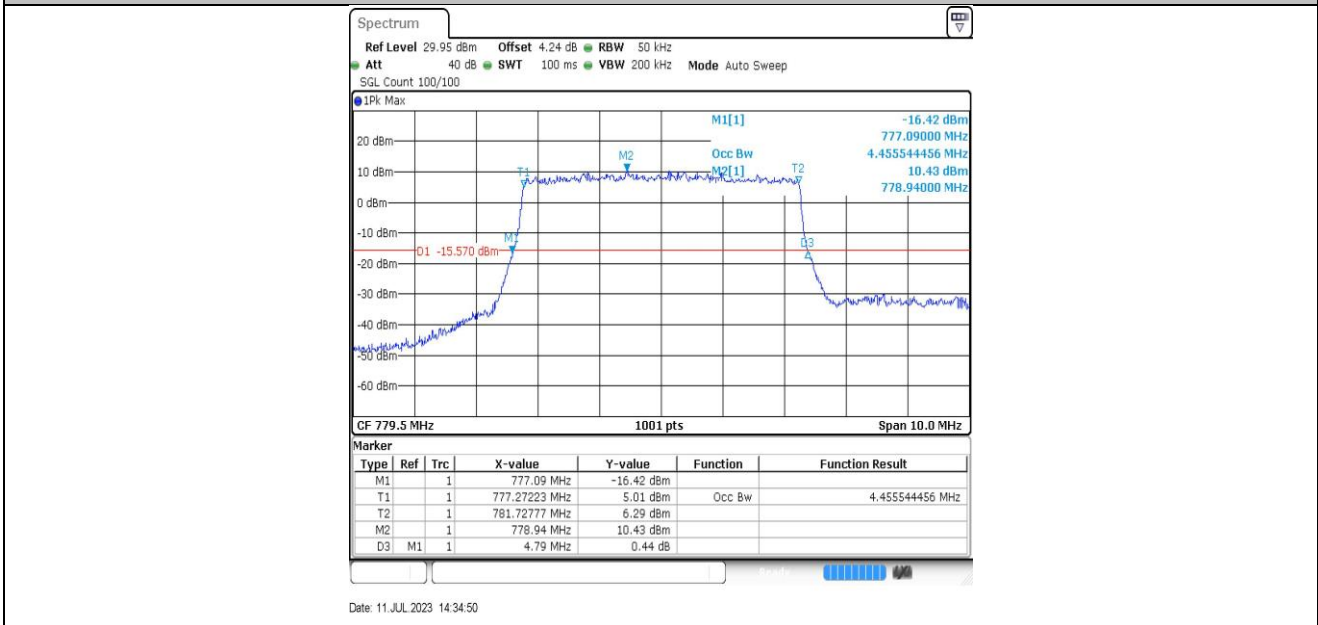
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### 5MHz-23255 64QAM



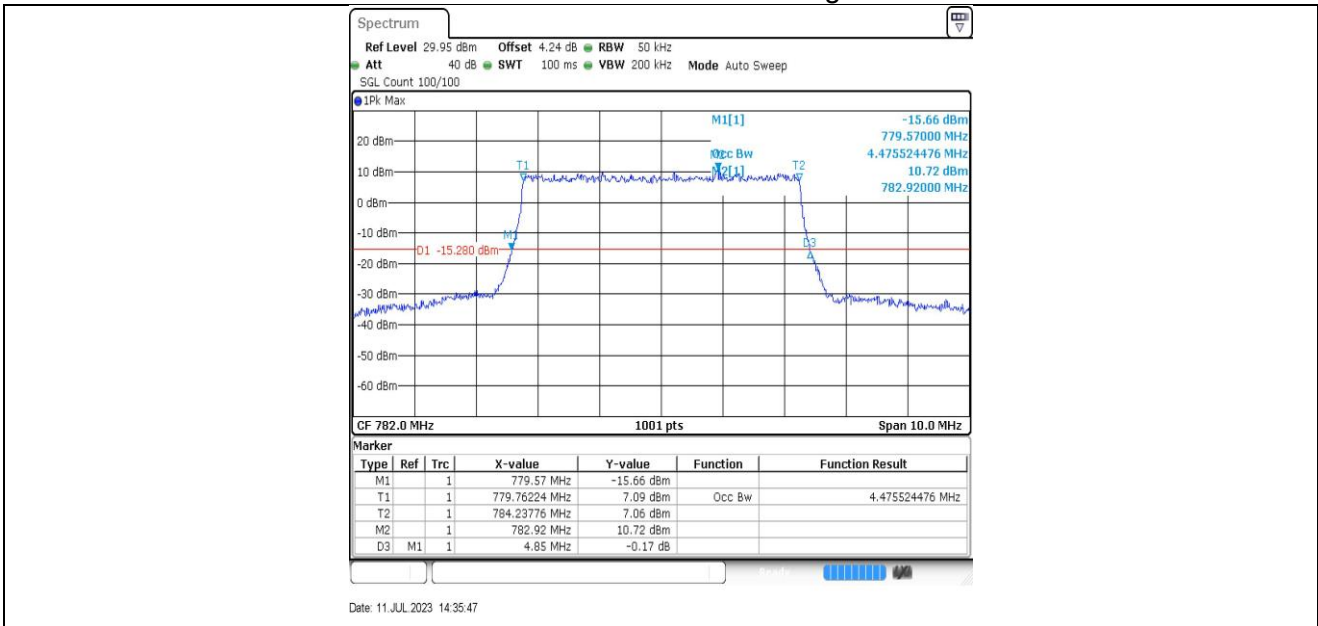
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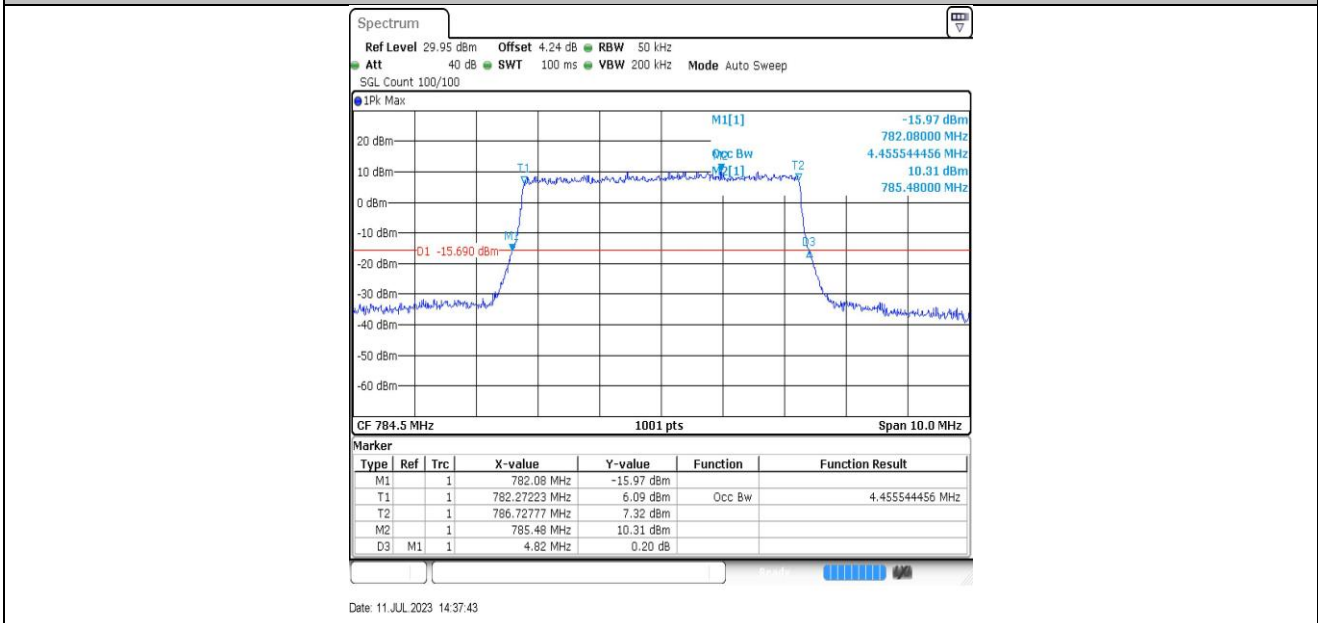
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### 5MHz-23230 256QAM



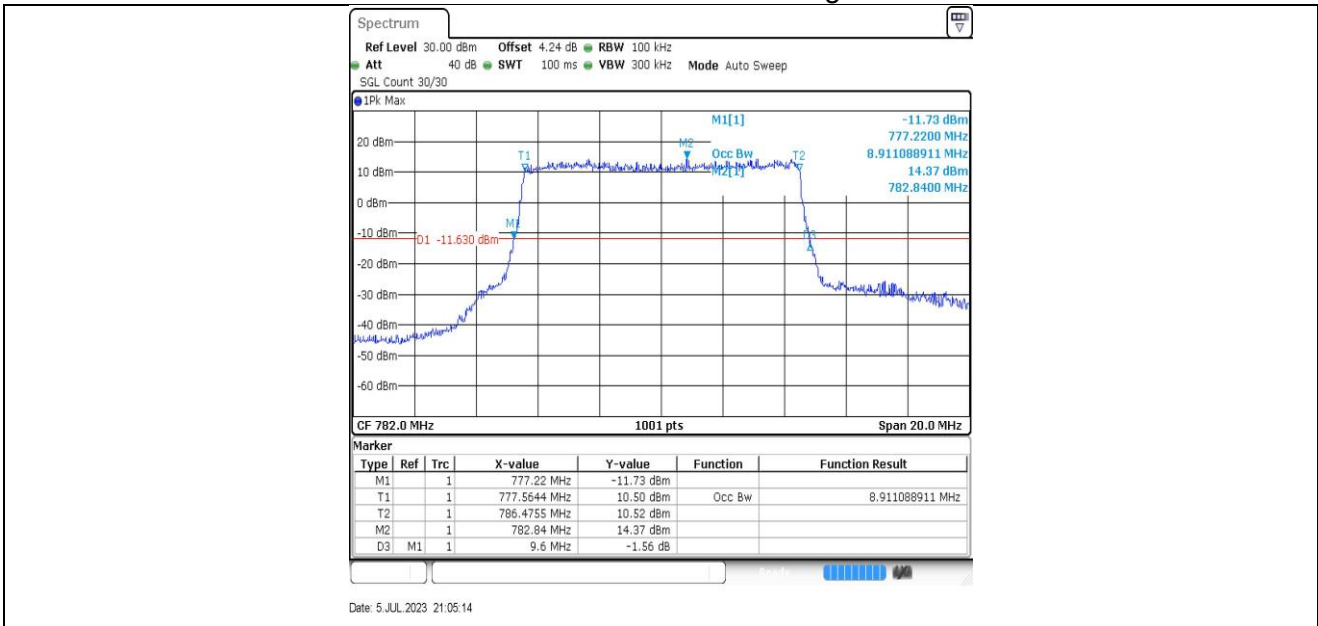
### 5MHz-23255 256QAM



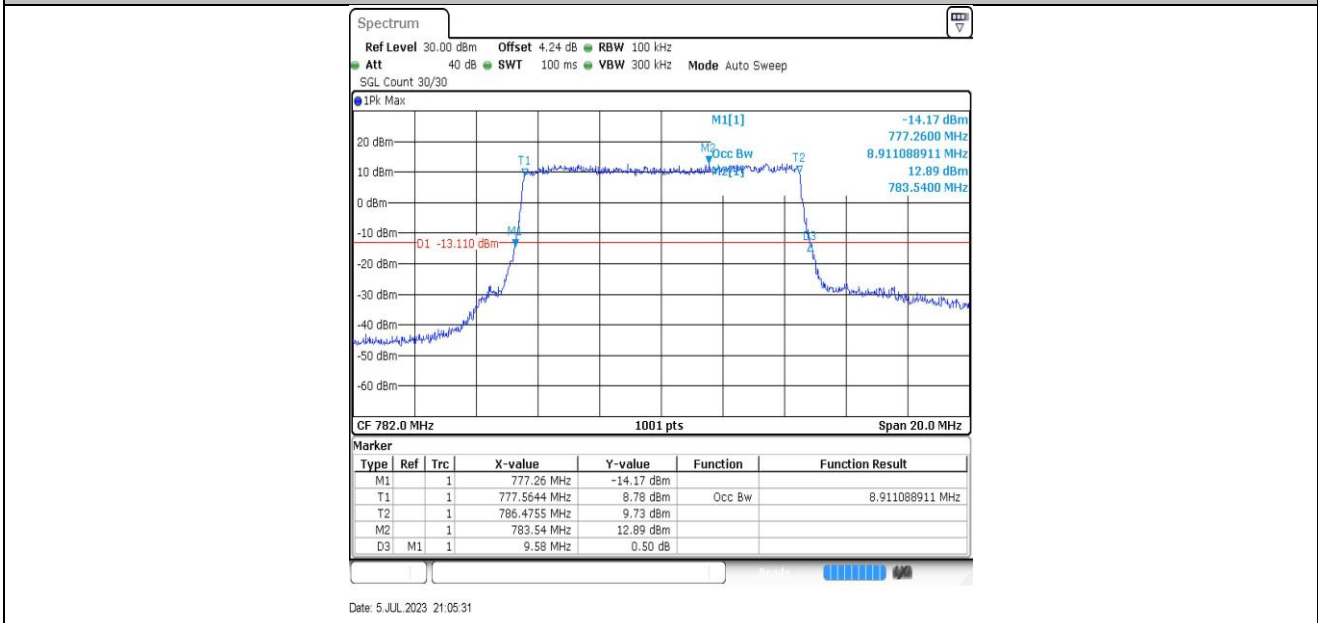
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### 10MHz-23230 QPSK



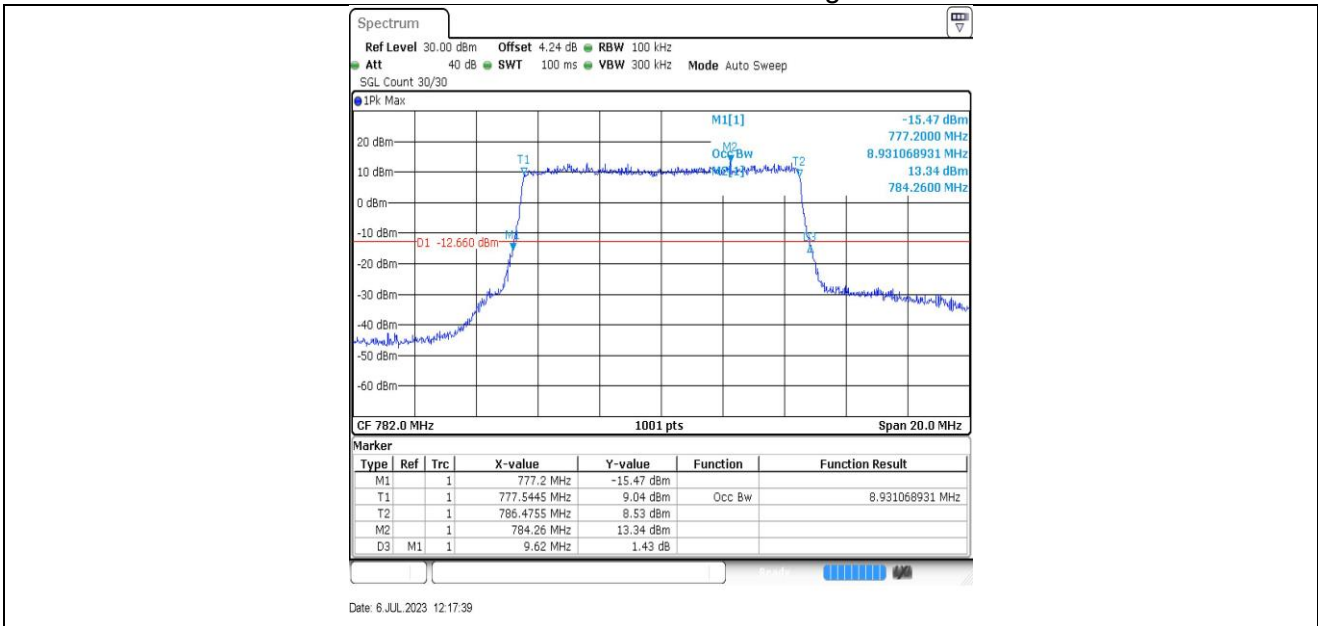
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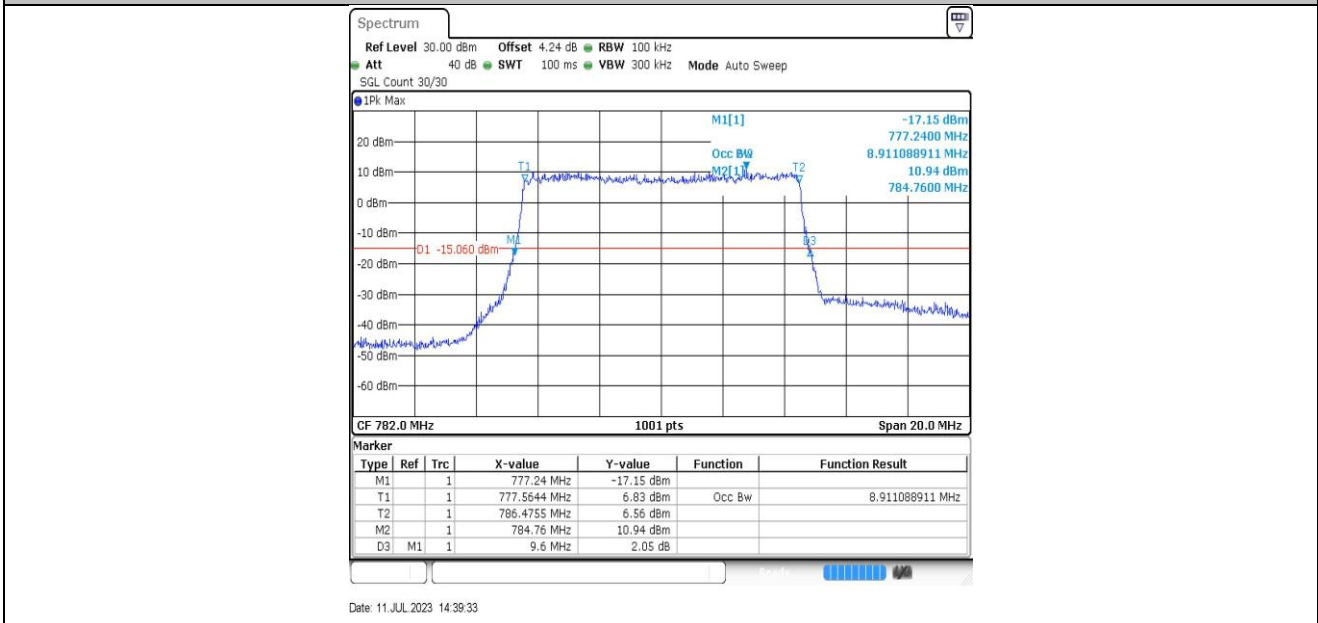
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### 10MHz-23230 64QAM



### 10MHz-23230 256QAM



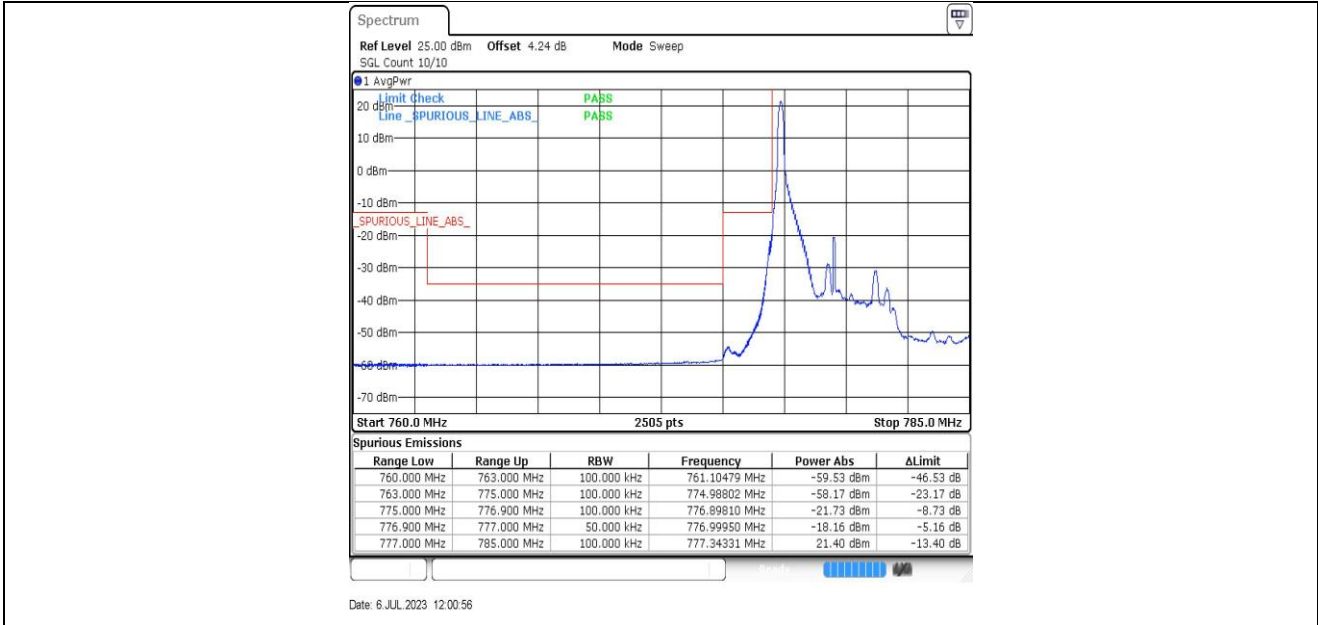
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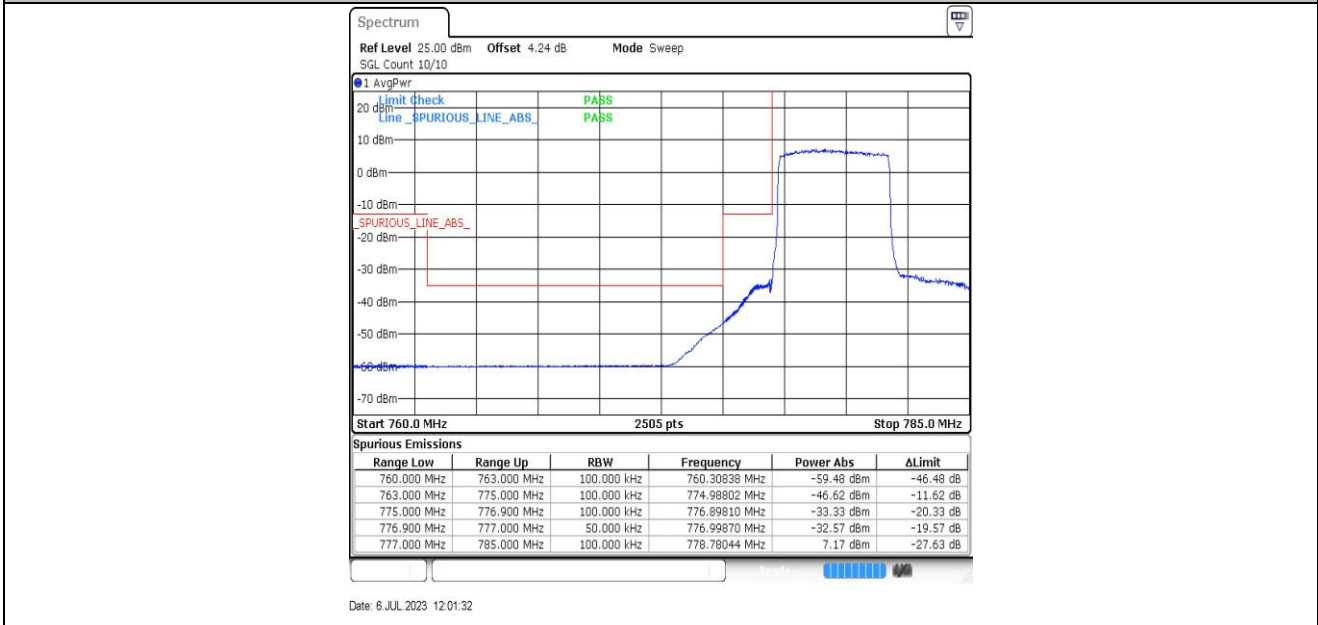
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### Band Edge

### Test Graphs



5MHz-23205



5MHz-23205

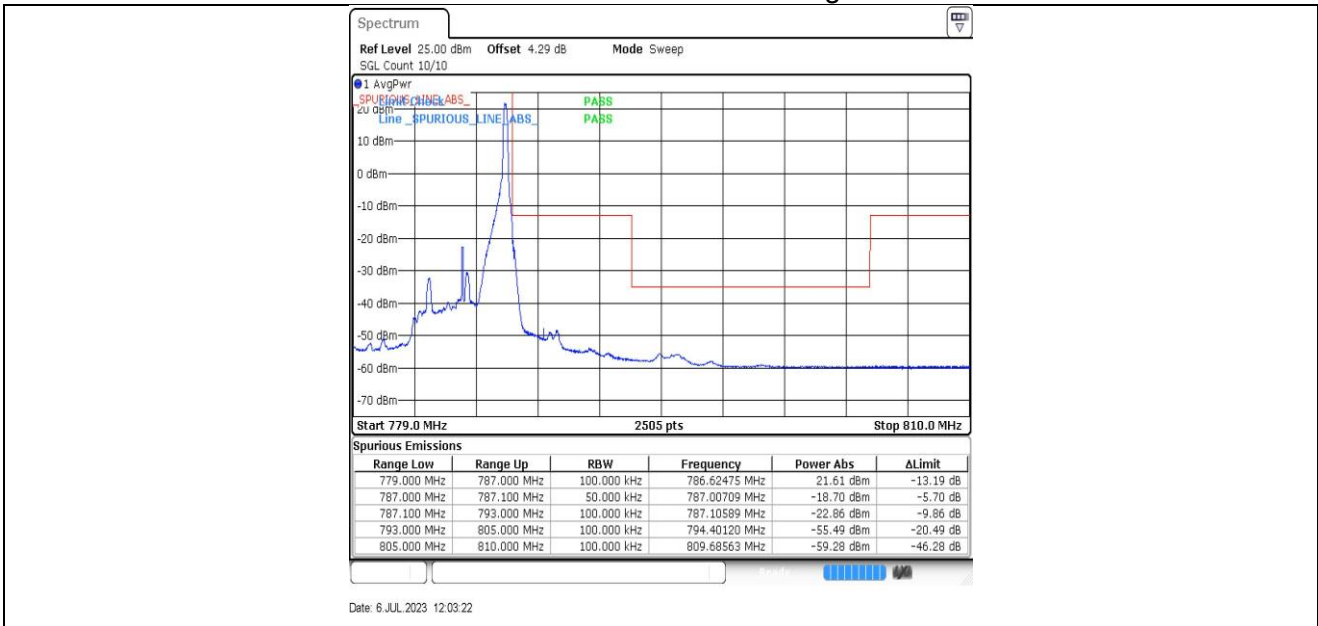


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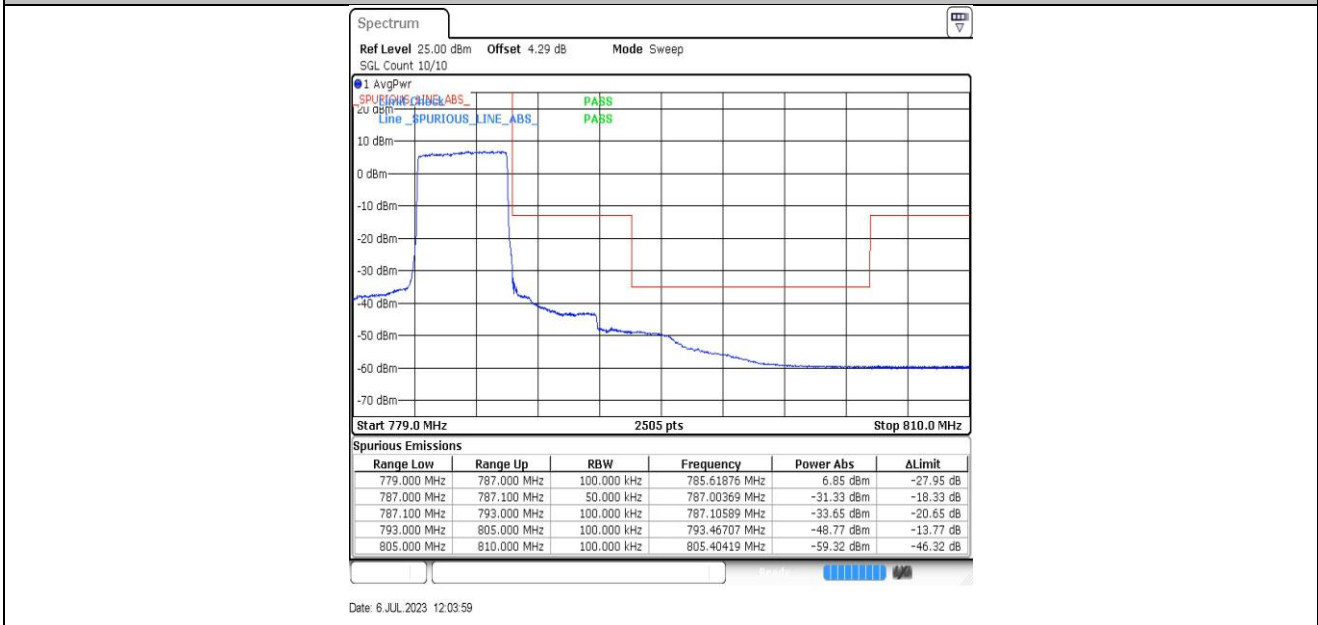
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5MHz-23255



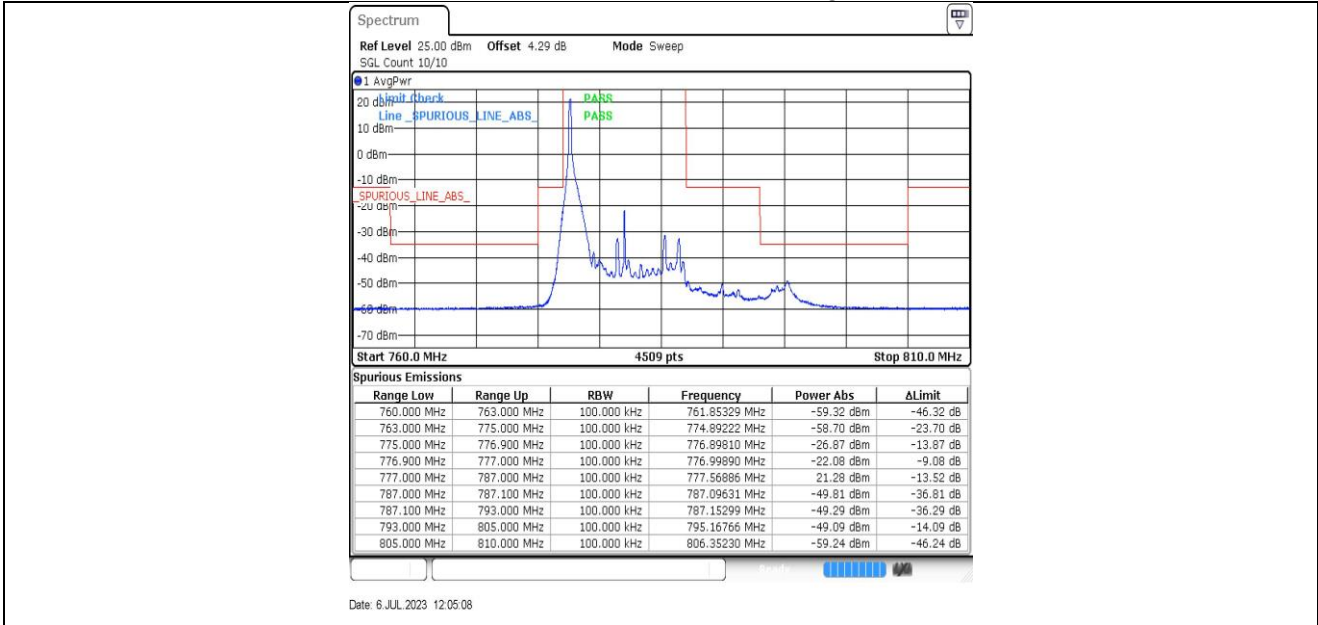
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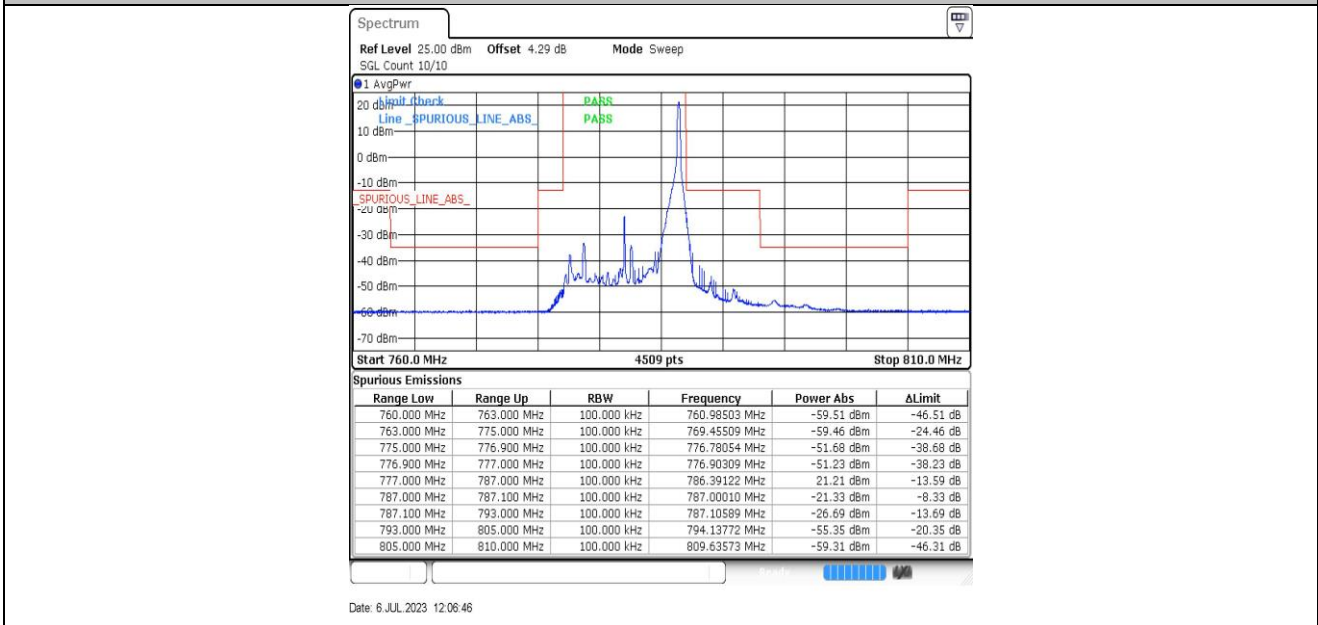
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10MHz-23230

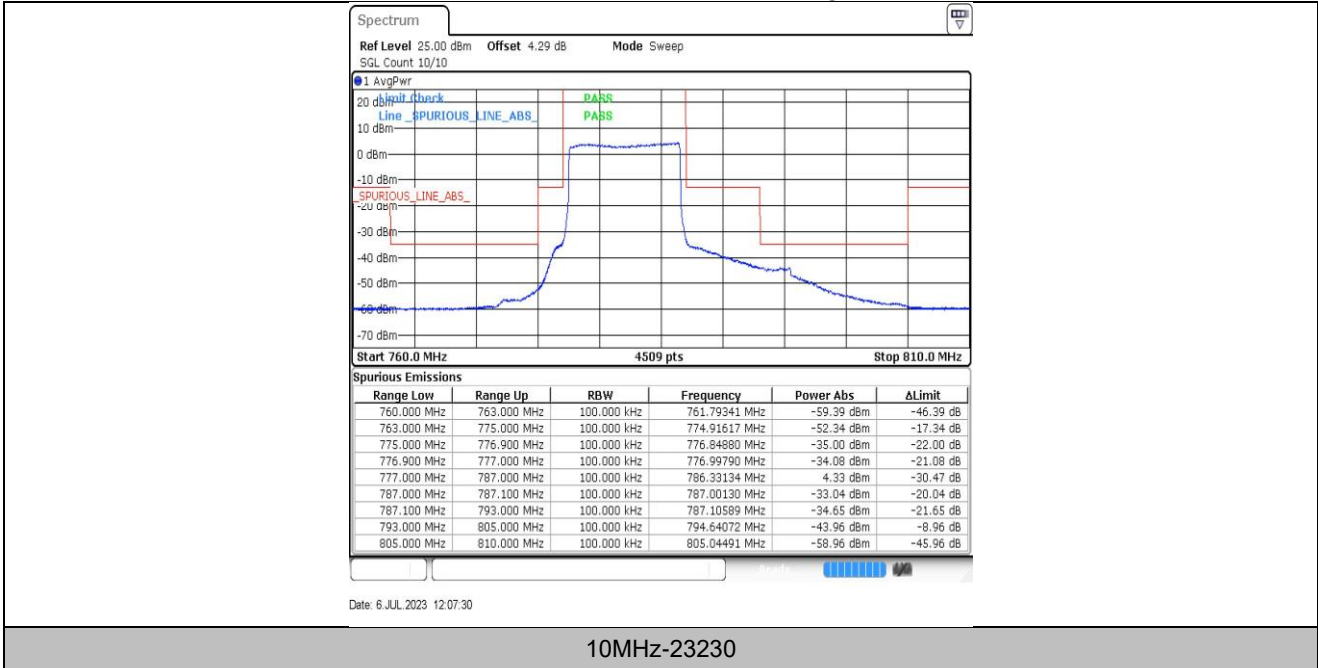


10MHz-23230



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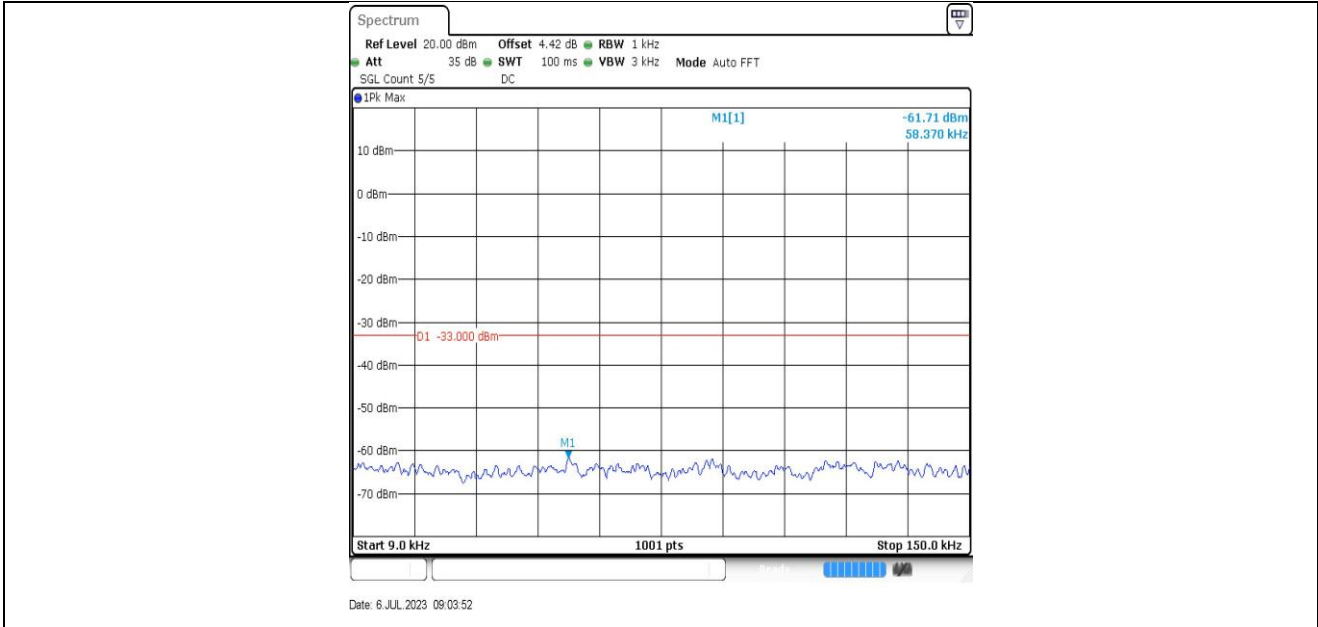
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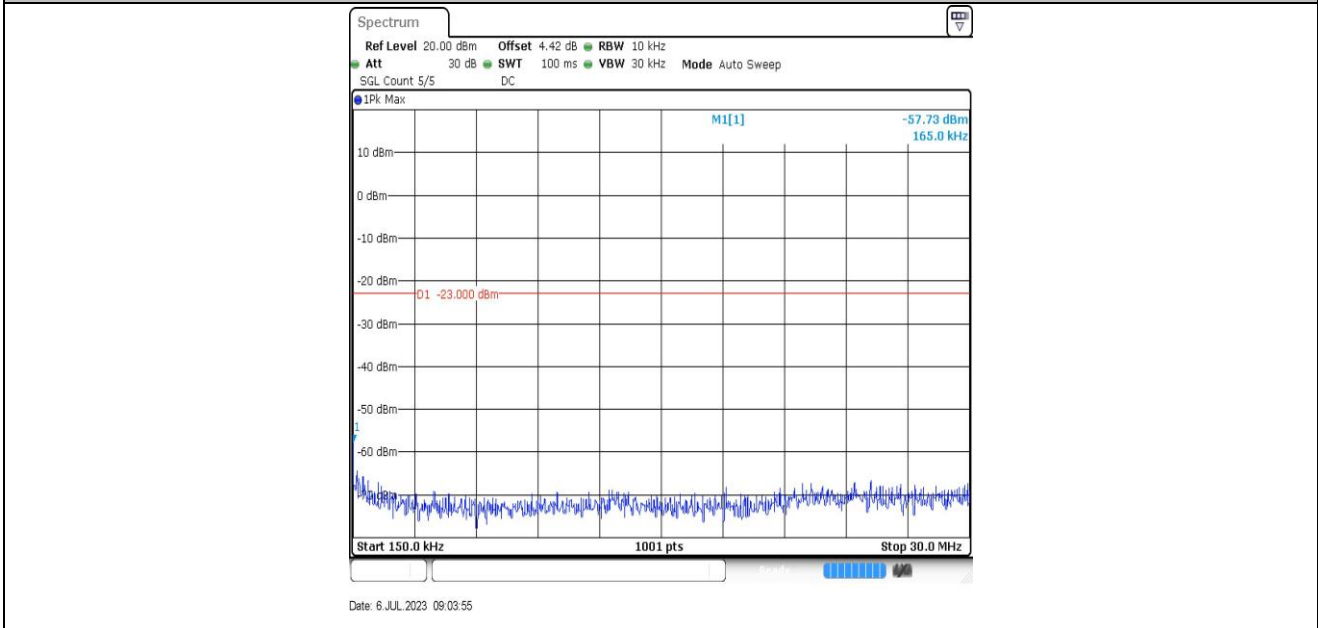
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### Conducted Spurious Emission

#### Test Graphs



10MHz-23230



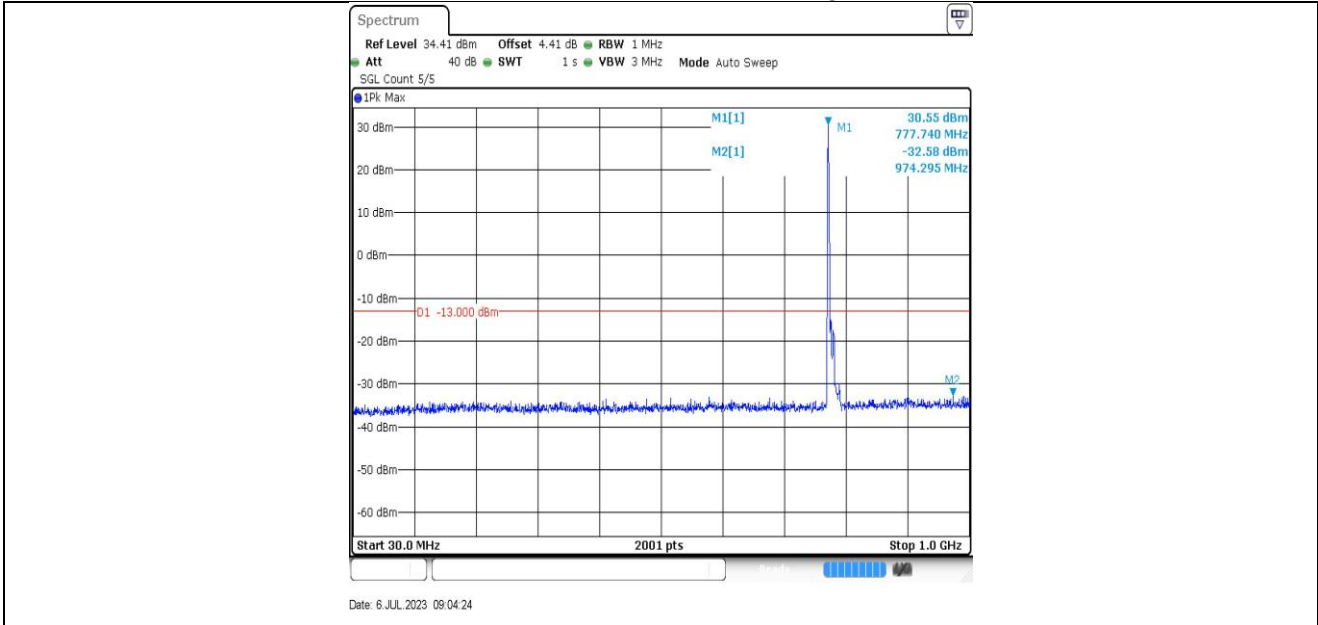
10MHz-23230



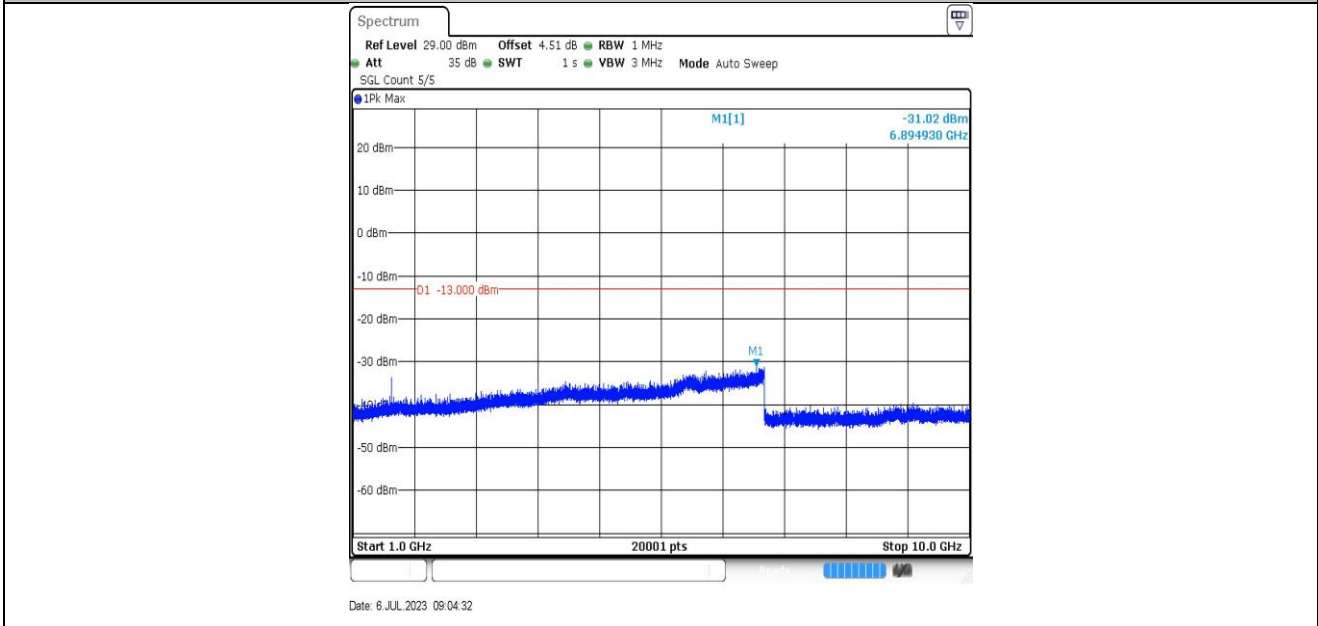
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10MHz-23230



10MHz-23230



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## Field Strength of Spurious Radiation

Test Band = LTE Band13\_10M\_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	41.66	-48.30	25.18	-76.72	-13.00	63.72	Horizontal
2	2332.7700	41.35	-47.48	26.83	-74.56	-13.00	61.56	Horizontal
3	3110.3600	41.33	-46.70	28.37	-72.26	-13.00	59.26	Horizontal
4	3887.9500	40.30	-46.22	28.99	-72.19	-13.00	59.19	Horizontal
5	4665.5400	39.47	-45.80	30.66	-70.92	-13.00	57.92	Horizontal
6	5441.3000	39.67	-45.04	32.46	-68.17	-13.00	55.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	43.45	-48.30	25.18	-74.93	-13.00	61.93	Vertical
2	2332.7700	43.29	-47.48	26.83	-72.62	-13.00	59.62	Vertical
3	3110.3600	42.13	-46.70	28.37	-71.46	-13.00	58.46	Vertical
4	3887.9500	41.32	-46.22	28.99	-71.17	-13.00	58.17	Vertical
5	4665.5400	40.39	-45.80	30.66	-70.00	-13.00	57.00	Vertical
6	5441.3000	40.04	-45.04	32.46	-67.80	-13.00	54.80	Vertical



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**Test Band = LTE Band13\_5M\_TM1**

**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	41.91	-48.30	25.18	-76.47	-13.00	63.47	Horizontal
2	2332.0200	41.98	-47.48	26.83	-73.93	-13.00	60.93	Horizontal
3	3109.3600	41.20	-46.71	28.37	-72.40	-13.00	59.40	Horizontal
4	3886.7000	40.37	-46.22	28.99	-72.12	-13.00	59.12	Horizontal
5	4664.0400	39.42	-45.80	30.66	-70.97	-13.00	57.97	Horizontal
6	5441.3800	39.64	-45.04	32.46	-68.20	-13.00	55.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	43.42	-48.30	25.18	-74.96	-13.00	61.96	Vertical
2	2332.0200	43.11	-47.48	26.83	-72.80	-13.00	59.80	Vertical
3	3109.3600	42.26	-46.71	28.37	-71.34	-13.00	58.34	Vertical
4	3886.7000	41.07	-46.22	28.99	-71.42	-13.00	58.42	Vertical
5	4664.0400	40.87	-45.80	30.66	-69.52	-13.00	56.52	Vertical
6	5441.3800	40.28	-45.04	32.46	-67.56	-13.00	54.56	Vertical



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**Test Band = LTE Band13\_5M\_TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	41.63	-48.30	25.18	-76.75	-40.00	36.75	Horizontal
2	2339.5200	41.59	-47.48	26.85	-74.30	-13.00	61.30	Horizontal
3	3119.3600	41.03	-46.66	28.37	-72.52	-13.00	59.52	Horizontal
4	3899.2000	40.22	-46.23	29.00	-72.27	-13.00	59.27	Horizontal
5	4679.0400	39.31	-45.80	30.69	-71.05	-13.00	58.05	Horizontal
6	5458.8800	39.82	-45.07	32.50	-68.01	-13.00	55.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	43.62	-48.30	25.18	-74.76	-40.00	34.76	Vertical
2	2339.5200	42.83	-47.48	26.85	-73.06	-13.00	60.06	Vertical
3	3119.3600	42.81	-46.66	28.37	-70.74	-13.00	57.74	Vertical
4	3899.2000	40.89	-46.23	29.00	-71.60	-13.00	58.60	Vertical
5	4679.0400	40.04	-45.80	30.69	-70.32	-13.00	57.32	Vertical
6	5458.8800	40.41	-45.07	32.50	-67.42	-13.00	54.42	Vertical



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**Test Band = LTE Band13\_5M\_TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	40.95	-48.29	25.18	-77.42	-40.00	37.42	Horizontal
2	2347.0200	41.69	-47.48	26.87	-74.17	-13.00	61.17	Horizontal
3	3129.3600	41.37	-46.61	28.38	-72.13	-13.00	59.13	Horizontal
4	3911.7000	40.39	-46.23	29.01	-72.08	-13.00	59.08	Horizontal
5	4694.0400	39.72	-45.80	30.73	-70.61	-13.00	57.61	Horizontal
6	5476.3800	39.26	-45.10	32.54	-68.56	-13.00	55.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	43.17	-48.29	25.18	-75.20	-40.00	35.20	Vertical
2	2347.0200	42.82	-47.48	26.87	-73.04	-13.00	60.04	Vertical
3	3129.3600	42.43	-46.61	28.38	-71.07	-13.00	58.07	Vertical
4	3911.7000	41.26	-46.23	29.01	-71.21	-13.00	58.21	Vertical
5	4694.0400	40.27	-45.80	30.73	-70.06	-13.00	57.06	Vertical
6	5476.3800	40.35	-45.10	32.54	-67.47	-13.00	54.47	Vertical



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

**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8084.125	37.83	-41.47	36.76	-62.14	-40.00	22.14	Horizontal
2	9130.05	35.17	-40.27	36.55	-63.81	-40.00	23.81	Horizontal
3	9996	32.02	-39.37	38.19	-64.42	-40.00	24.42	Horizontal
4	10943.6	29.29	-37.71	38.67	-65.01	-40.00	25.01	Horizontal
5	12110.275	27.41	-37.18	38.83	-66.20	-40.00	26.20	Horizontal
6	13321.225	26.85	-36.82	39.68	-65.55	-40.00	25.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7625.275	39.29	-42.79	36.65	-62.11	-40.00	22.11	Vertical
2	9063.35	35.42	-40.58	36.42	-64.00	-40.00	24.00	Vertical
3	10072.475	32.23	-38.89	38.24	-63.68	-40.00	23.68	Vertical
4	10697.5	30.02	-37.50	38.55	-64.19	-40.00	24.19	Vertical
5	12783.025	27.43	-36.66	39.03	-65.45	-40.00	25.45	Vertical
6	14619.575	26.37	-35.23	41.15	-62.98	-40.00	22.98	Vertical



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**Test Band = LTE 13A\_48A\_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7627	39.59	-42.80	36.65	-61.82	-40.00	21.82	Horizontal
2	8950.65	36.26	-40.89	36.32	-63.57	-40.00	23.57	Horizontal
3	9603.275	34.48	-39.21	37.45	-62.54	-40.00	22.54	Horizontal
4	10830.325	30.01	-38.27	38.62	-64.90	-40.00	24.90	Horizontal
5	11808.975	26.97	-37.21	38.78	-66.72	-40.00	26.72	Horizontal
6	13968.675	26.17	-35.03	40.84	-63.27	-40.00	23.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7646.55	39.29	-42.84	36.66	-62.15	-40.00	22.15	Vertical
2	8895.45	36.06	-40.92	36.35	-63.77	-40.00	23.77	Vertical
3	9609.6	34.66	-39.23	37.46	-62.37	-40.00	22.37	Vertical
4	10704.975	30.07	-37.54	38.55	-64.18	-40.00	24.18	Vertical
5	12202.275	27.90	-37.10	38.86	-65.60	-40.00	25.60	Vertical
6	14498.825	25.29	-34.24	41.10	-63.11	-40.00	23.11	Vertical



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**Test Band = LTE 13A\_48A\_ TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8404.975	38.38	-41.39	36.60	-61.67	-40.00	21.67	Horizontal
2	10663	30.19	-37.68	38.53	-64.22	-40.00	24.22	Horizontal
3	10773.975	30.29	-38.21	38.59	-64.60	-40.00	24.60	Horizontal
4	12775.55	27.75	-36.67	39.03	-65.15	-40.00	25.15	Horizontal
5	13970.4	26.15	-35.01	40.85	-63.28	-40.00	23.28	Horizontal
6	14502.85	25.38	-34.26	41.10	-63.04	-40.00	23.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7788	38.86	-42.62	36.72	-62.31	-40.00	22.31	Vertical
2	9602.7	34.46	-39.21	37.45	-62.56	-40.00	22.56	Vertical
3	10077.65	32.67	-38.85	38.24	-63.20	-40.00	23.20	Vertical
4	11230.525	29.25	-36.79	38.72	-64.08	-40.00	24.08	Vertical
5	13377	26.09	-36.29	39.78	-65.68	-40.00	25.68	Vertical
6	14493.075	25.43	-34.29	41.10	-63.02	-40.00	23.02	Vertical



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**Test Band = LTE 13A\_66A\_ TM1**

**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	42.59	-48.30	25.18	-75.79	-13.00	62.79	Horizontal
2	2332.0200	41.98	-47.48	26.83	-73.93	-13.00	60.93	Horizontal
3	3109.3600	40.81	-46.71	28.37	-72.79	-13.00	59.79	Horizontal
4	3404.1800	40.15	-46.54	28.54	-73.11	-13.00	60.11	Horizontal
5	5106.2700	38.64	-45.36	31.66	-70.32	-13.00	57.32	Horizontal
6	6808.3600	38.85	-44.12	34.86	-65.68	-13.00	52.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	44.16	-48.30	25.18	-74.22	-13.00	61.22	Vertical
2	2332.0200	43.31	-47.48	26.83	-72.60	-13.00	59.60	Vertical
3	3109.3600	41.90	-46.71	28.37	-71.70	-13.00	58.70	Vertical
4	3404.1800	41.03	-46.54	28.54	-72.23	-13.00	59.23	Vertical
5	5106.2700	39.31	-45.36	31.66	-69.65	-13.00	56.65	Vertical
6	6808.3600	38.78	-44.12	34.86	-65.75	-13.00	52.75	Vertical



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**Test Band = LTE 13A\_66A\_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	41.12	-48.30	25.18	-77.26	-40.00	37.26	Horizontal
2	2339.5200	41.51	-47.48	26.85	-74.38	-13.00	61.38	Horizontal
3	3119.3600	40.94	-46.66	28.37	-72.61	-13.00	59.61	Horizontal
4	3454.1800	41.42	-46.54	28.57	-71.81	-13.00	58.81	Horizontal
5	5181.2700	39.13	-45.06	31.84	-69.36	-13.00	56.36	Horizontal
6	6908.3600	37.98	-44.12	35.04	-66.36	-13.00	53.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	43.48	-48.30	25.18	-74.90	-40.00	34.90	Vertical
2	2339.5200	42.54	-47.48	26.85	-73.35	-13.00	60.35	Vertical
3	3119.3600	42.53	-46.66	28.37	-71.02	-13.00	58.02	Vertical
4	3454.1800	42.52	-46.54	28.57	-70.71	-13.00	57.71	Vertical
5	5181.2700	38.90	-45.06	31.84	-69.59	-13.00	56.59	Vertical
6	6908.3600	38.50	-44.12	35.04	-65.84	-13.00	52.84	Vertical



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**Test Band = LTE 13A\_66A\_ TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	41.02	-48.29	25.18	-77.35	-40.00	37.35	Horizontal
2	2347.0200	41.52	-47.48	26.87	-74.34	-13.00	61.34	Horizontal
3	3129.3600	41.37	-46.61	28.38	-72.13	-13.00	59.13	Horizontal
4	3504.1800	41.82	-46.53	28.60	-71.37	-13.00	58.37	Horizontal
5	5256.2700	39.29	-45.16	32.02	-69.11	-13.00	56.11	Horizontal
6	7008.3600	37.73	-43.63	35.22	-65.93	-13.00	52.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	43.09	-48.29	25.18	-75.28	-40.00	35.28	Vertical
2	2347.0200	42.85	-47.48	26.87	-73.01	-13.00	60.01	Vertical
3	3129.3600	42.77	-46.61	28.38	-70.73	-13.00	57.73	Vertical
4	3504.1800	42.09	-46.53	28.60	-71.10	-13.00	58.10	Vertical
5	5256.2700	39.80	-45.16	32.02	-68.60	-13.00	55.60	Vertical
6	7008.3600	38.28	-43.63	35.22	-65.38	-13.00	52.38	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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