

Appendix B

E-UTRA Band 13



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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER..... 4

1.1. TEST RESULT..... 4

2. PEAK-TO-AVERAGE RATIO (CCDF)..... 10

2.1. TEST RESULT..... 10

2.2. TEST PLOTS..... 10

3. MODULATION CHARACTERISTICS..... 12

3.1. TEST MODE = LTE /TM1 10MHZ..... 12

3.1.1. TEST CHANNEL = MCH..... 12

3.2. TEST MODE = LTE /TM2 10MHZ..... 13

3.2.1. TEST CHANNEL = MCH..... 13

3.3. TEST MODE = LTE /TM3 10MHZ..... 14

3.3.1. TEST CHANNEL = MCH..... 14

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH..... 15

4.1. TEST RESULT..... 15

4.2. TEST PLOTS..... 16

5. BAND EDGE COMPLIANCE..... 22

5.1. TEST PLOTS..... 22

6. SPURIOUS EMISSION AT ANTENNA TERMINAL..... 35

6.1. TEST PLOTS..... 35

7. FIELD STRENGTH OF SPURIOUS RADIATION..... 38

7.1. Test Band = _13 ANT1..... 38

7.1.1. Test Channel = Mid Channel..... 38

7.2. Test Band = _13 ANT1..... 39

7.2.1. Test Channel = Mid Channel..... 39

7.3. Test Band = _13 ANT3..... 40

7.3.1. Test Channel = Mid Channel..... 40

7.4. Test Band = _13 ANT3..... 41

7.4.1. Test Channel = Mid Channel..... 41

8. FREQUENCY STABILITY..... 42



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8.1. FREQUENCY VS VOLTAGE.....42

8.2. FREQUENCY VS TEMPERATURE.....42



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.92	16.61	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.88	16.57	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.81	16.50	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.79	15.48	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.88	15.57	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.83	15.52	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.80	15.49	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.88	16.57	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.86	16.55	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.76	16.45	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.78	15.47	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.78	15.47	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.74	15.43	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.79	15.48	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.94	16.63	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.70	16.39	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.76	16.45	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.79	15.48	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.79	15.48	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.72	15.41	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.76	15.45	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.09	15.78	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.30	15.99	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.74	15.43	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.73	14.42	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.71	14.40	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.72	14.41	34.77	PASS



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Band13	5MHz	16QAM	23205	25RB#0	21.72	14.41	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.31	16.00	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.91	15.60	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.03	15.72	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.83	14.52	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.77	14.46	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.69	14.38	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.75	14.44	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.42	16.11	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.16	15.85	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.69	15.38	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.76	14.45	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.73	14.42	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.69	14.38	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.74	14.43	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.80	14.49	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.77	14.46	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.80	14.49	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.67	13.36	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.83	13.52	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.79	13.48	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.71	13.40	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.78	14.47	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.79	14.48	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.66	14.35	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.74	13.43	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.76	13.45	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.69	13.38	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.69	13.38	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.93	14.62	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.66	14.35	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.72	14.41	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.78	13.47	34.77	PASS



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Band13	5MHz	64QAM	23255	12RB#0	20.75	13.44	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.66	13.35	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.68	13.37	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.76	16.45	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.85	16.54	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.83	16.52	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.77	15.46	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.79	15.48	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.76	15.45	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.78	15.47	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.31	16	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.01	15.7	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.81	15.5	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.78	14.47	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.87	14.56	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.86	14.55	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.73	14.42	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.67	14.36	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.77	14.46	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.82	14.51	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.76	13.45	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.72	13.41	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.69	13.38	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.68	13.37	34.77	PASS



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ANT3:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.26	15.31	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.32	15.37	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.46	15.51	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.18	14.23	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.27	14.32	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.26	14.31	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.24	14.29	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.37	15.42	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.28	15.33	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.20	15.25	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.28	14.33	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.25	14.30	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.16	14.21	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.21	14.26	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.37	15.42	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.32	15.37	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.28	15.33	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.23	14.28	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.24	14.29	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.19	14.24	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.20	14.25	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.28	14.33	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.40	14.45	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.33	14.38	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.02	13.07	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.30	13.35	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.10	13.15	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.26	13.31	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.45	14.50	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.38	14.43	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.23	14.28	34.77	PASS



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Band13	5MHz	16QAM	23230	12RB#0	21.21	13.26	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.21	13.26	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.19	13.24	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.16	13.21	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.61	14.66	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.66	14.71	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.26	14.31	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.24	13.29	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.16	13.21	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.08	13.13	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.14	13.19	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.24	13.29	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.20	13.25	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.38	13.43	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.13	12.18	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.15	12.20	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.21	12.26	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.20	12.25	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.28	13.33	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.20	13.25	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.16	13.21	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.16	12.21	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.13	12.18	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.05	12.10	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.13	12.18	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.32	13.37	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.28	13.33	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.23	13.28	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.12	12.17	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.17	12.22	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.10	12.15	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.15	12.20	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.38	15.43	34.77	PASS



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Band13	10MHz	QPSK	23230	1RB#24	23.43	15.48	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.16	15.21	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.22	14.27	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.22	14.27	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.2	14.25	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.21	14.26	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.71	14.76	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.31	14.36	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.44	14.49	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.21	13.26	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.13	13.18	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.15	13.2	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.17	13.22	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.31	13.36	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.40	13.45	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.08	13.13	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.19	12.24	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.19	12.24	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.16	12.21	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.17	12.22	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



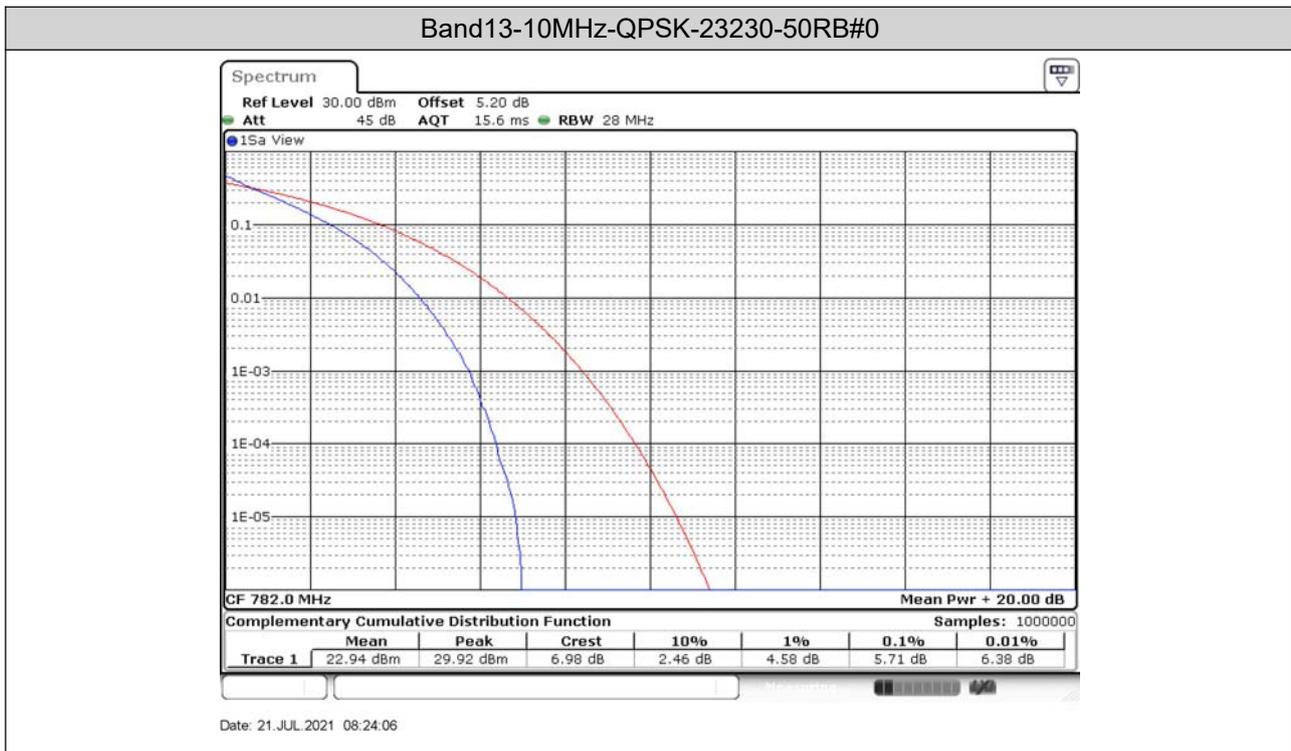
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.71	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.35	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.43	13	PASS

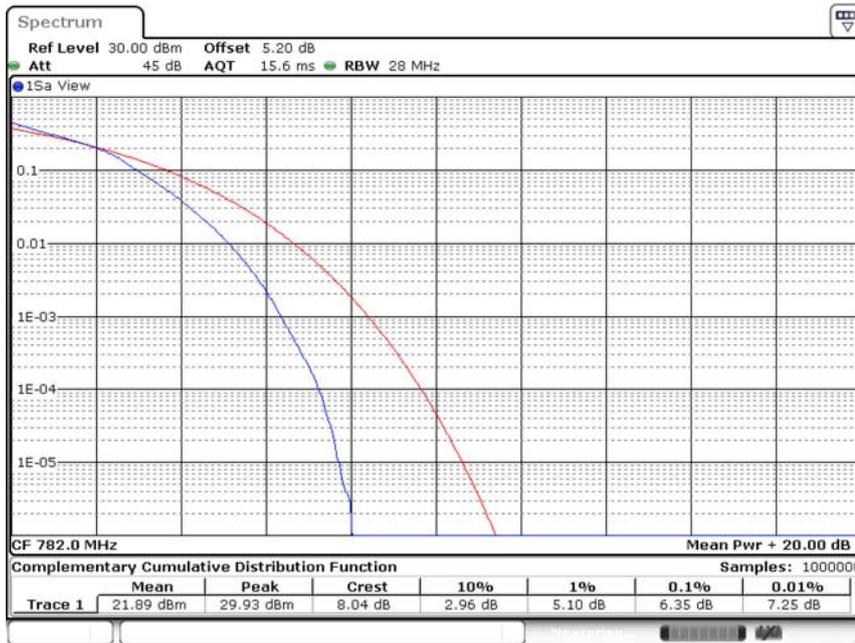
2.2. Test Plots



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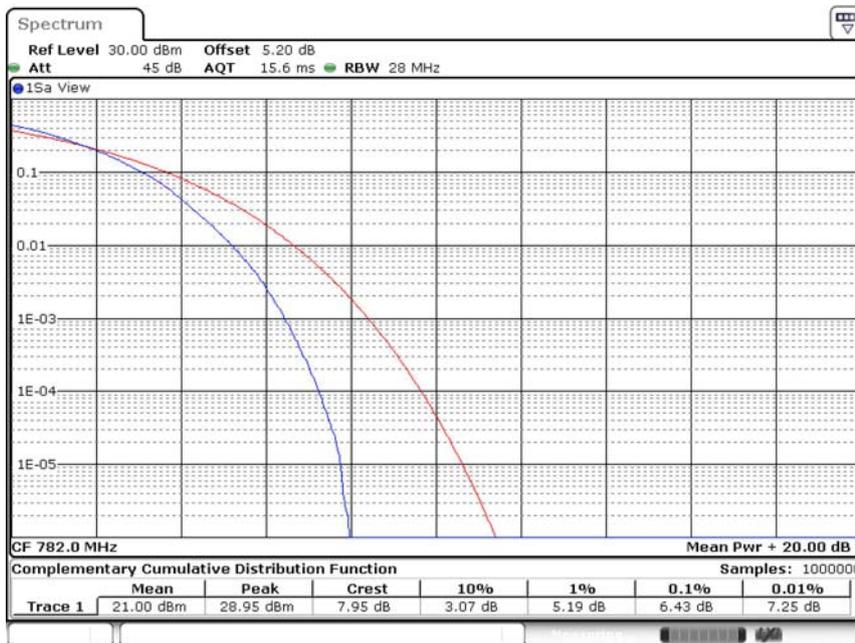
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Band13-10MHz-16QAM-23230-50RB#0



Date: 21.JUL.2021 08:24:22

Band13-10MHz-64QAM-23230-50RB#0



Date: 21.JUL.2021 21:18:25

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.

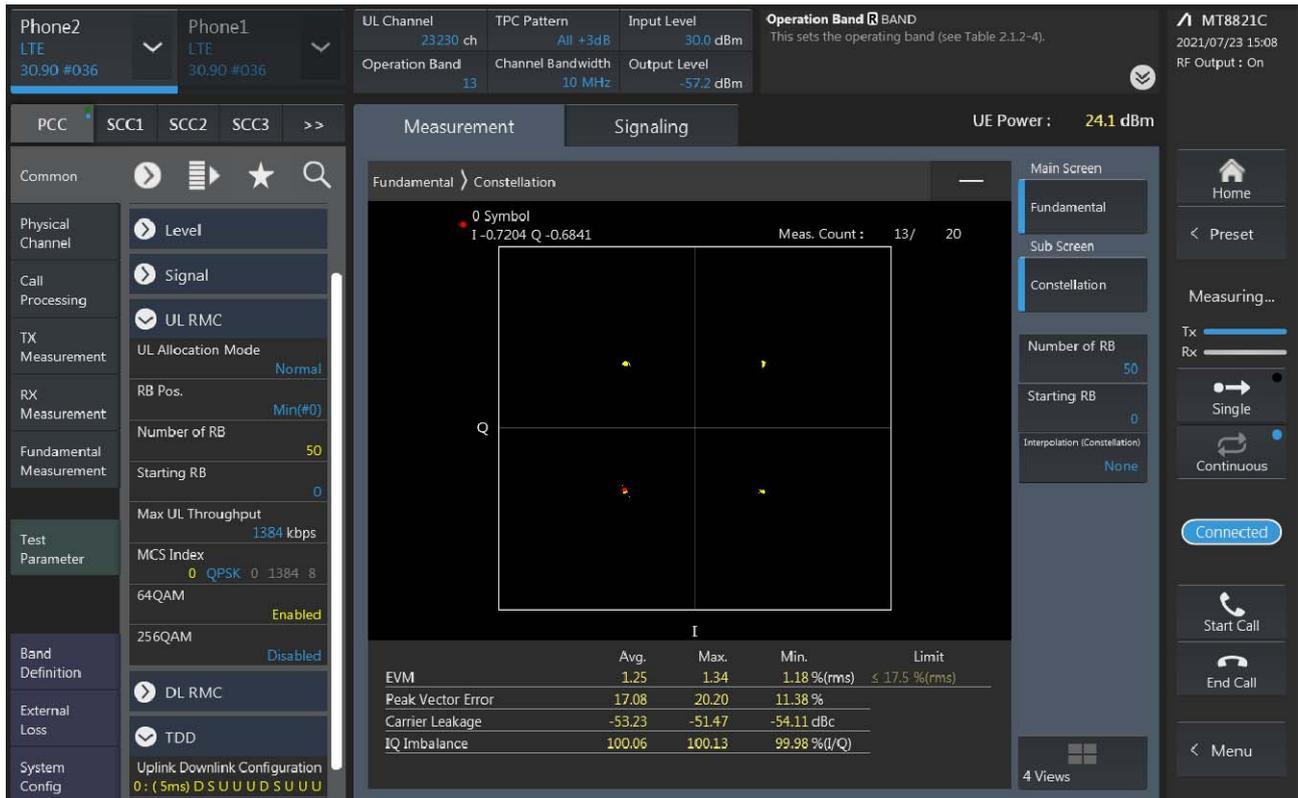


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH

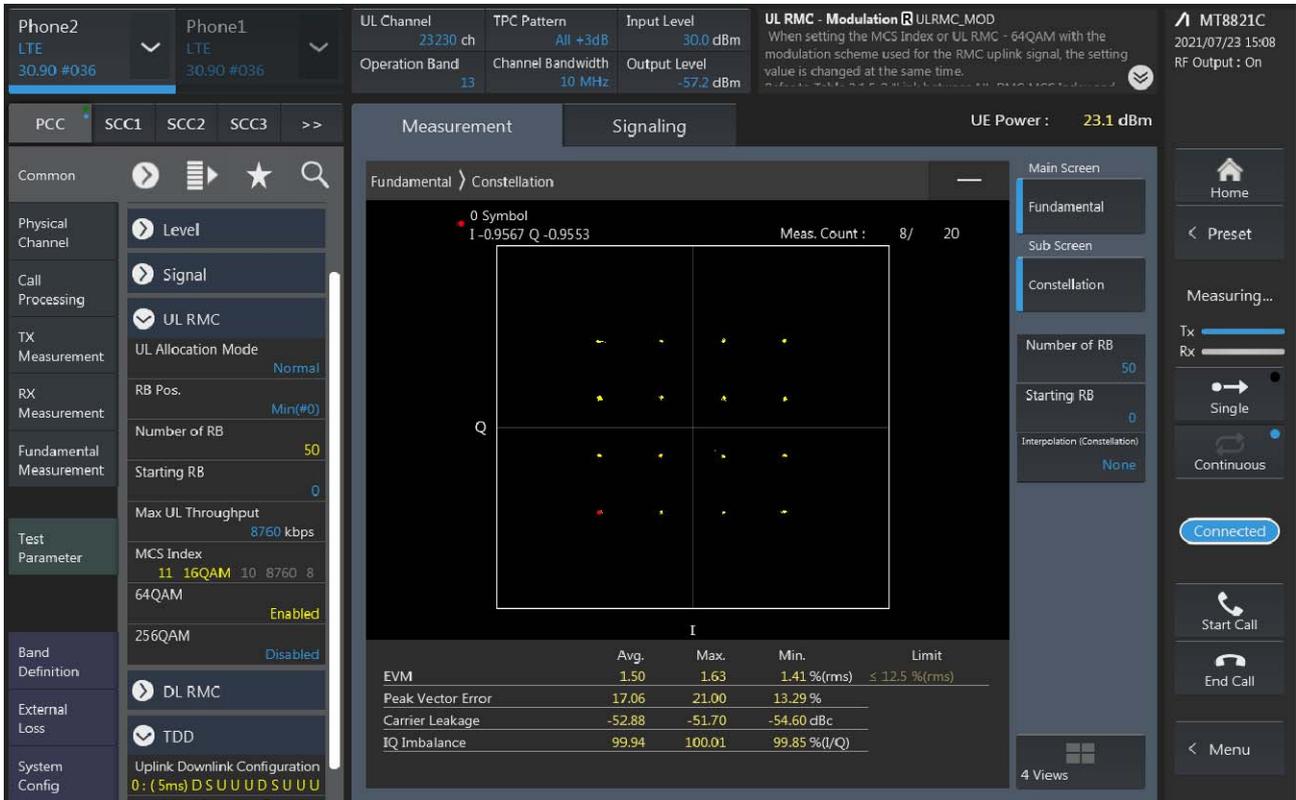


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH

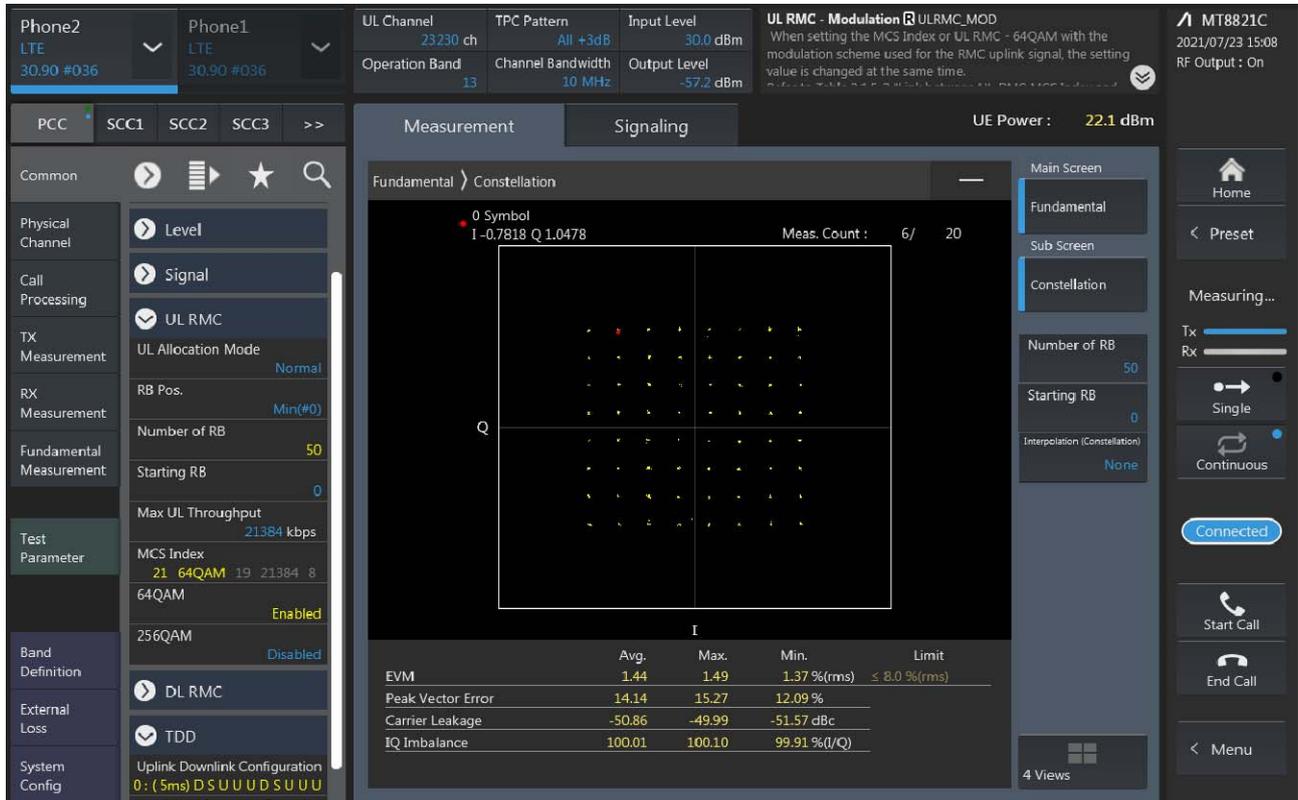


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3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

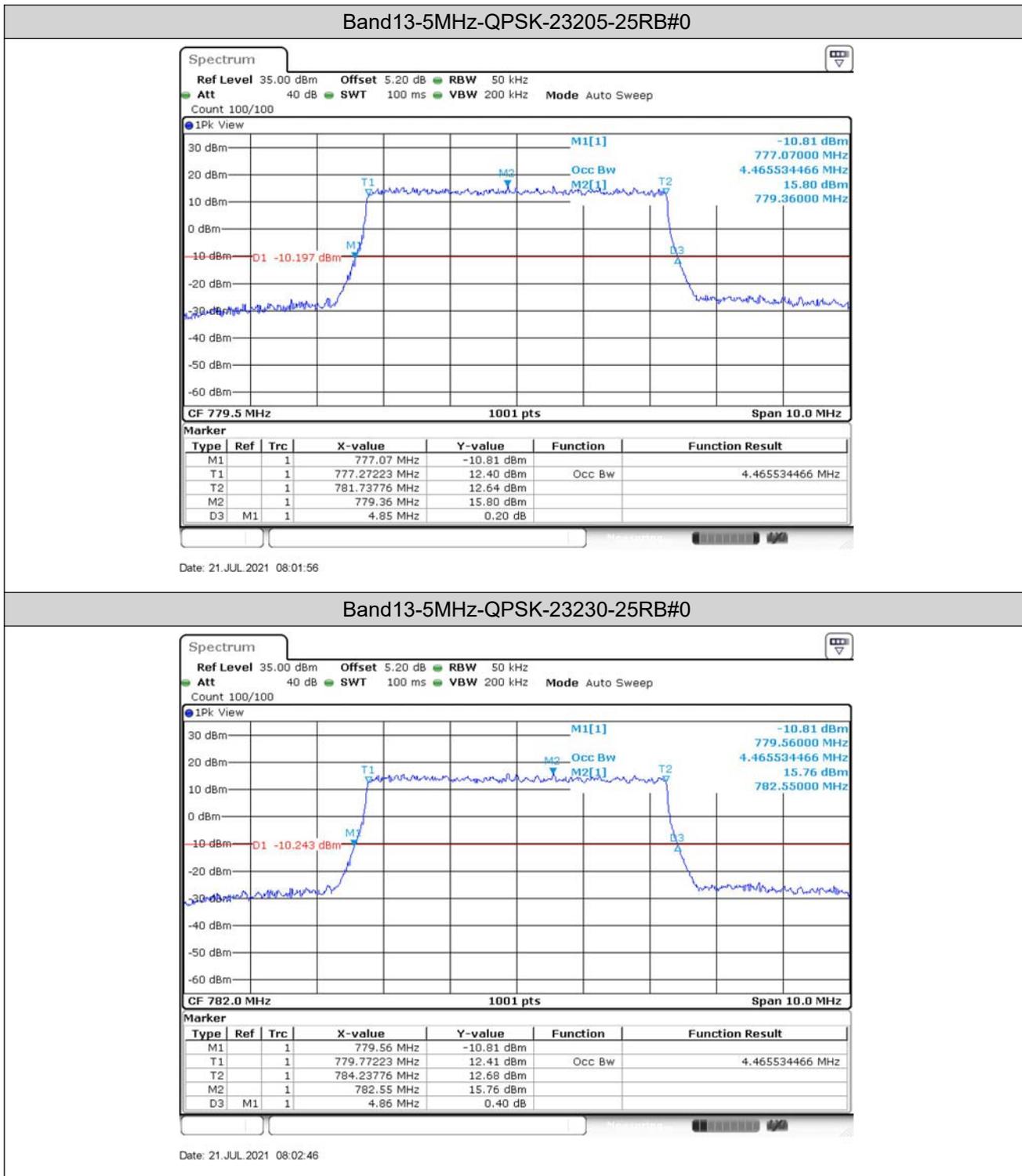
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.466	4.850	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.466	4.860	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.860	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	4.880	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.466	4.870	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.466	4.870	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.476	4.870	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.466	4.880	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.890	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.600	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.600	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.640	PASS



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4.2. Test Plots

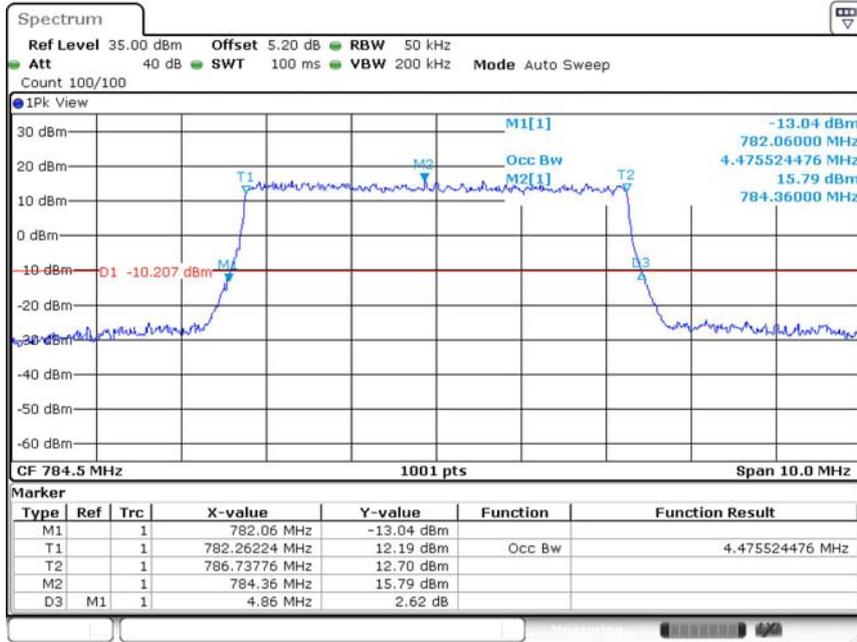


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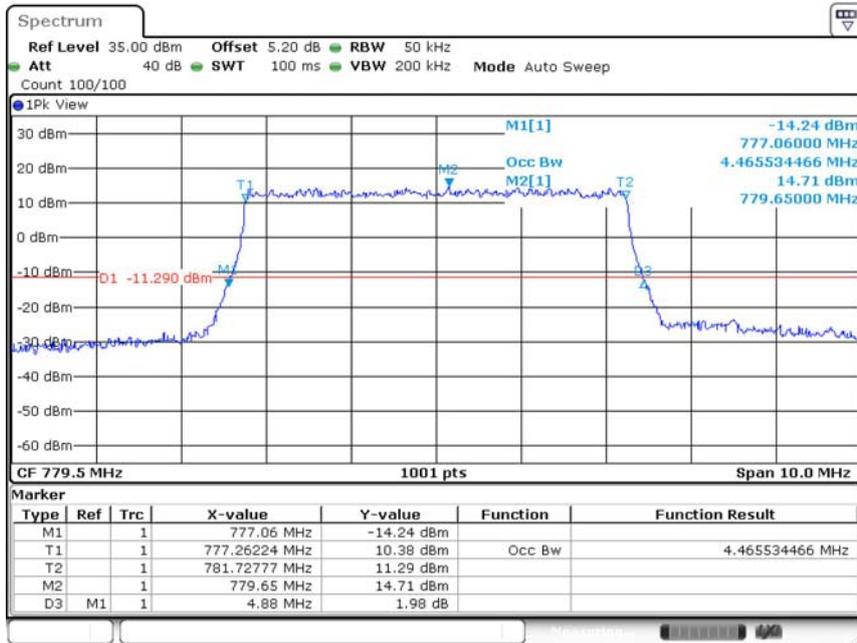
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Band13-5MHz-QPSK-23255-25RB#0



Date: 21.JUL.2021 08:03:36

Band13-5MHz-16QAM-23205-25RB#0

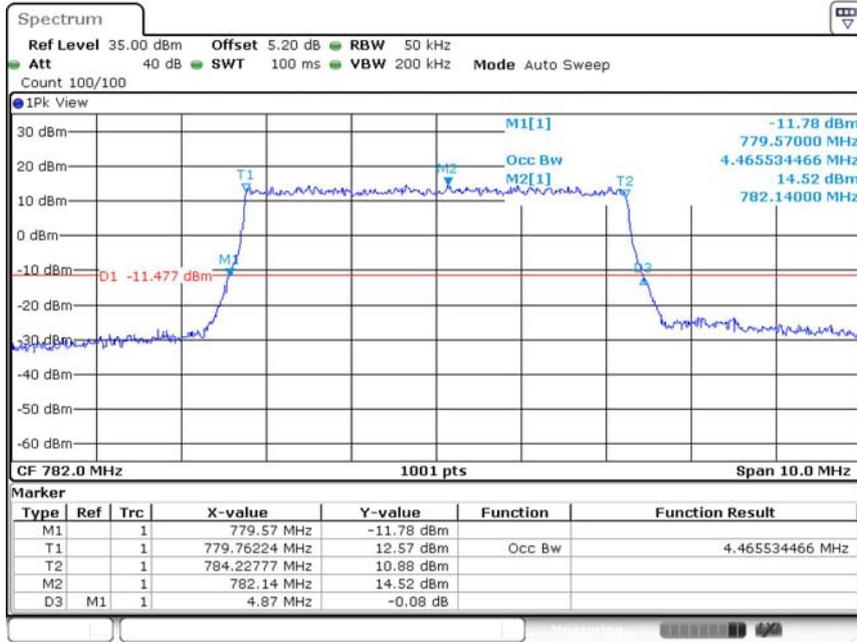


Date: 21.JUL.2021 08:02:21



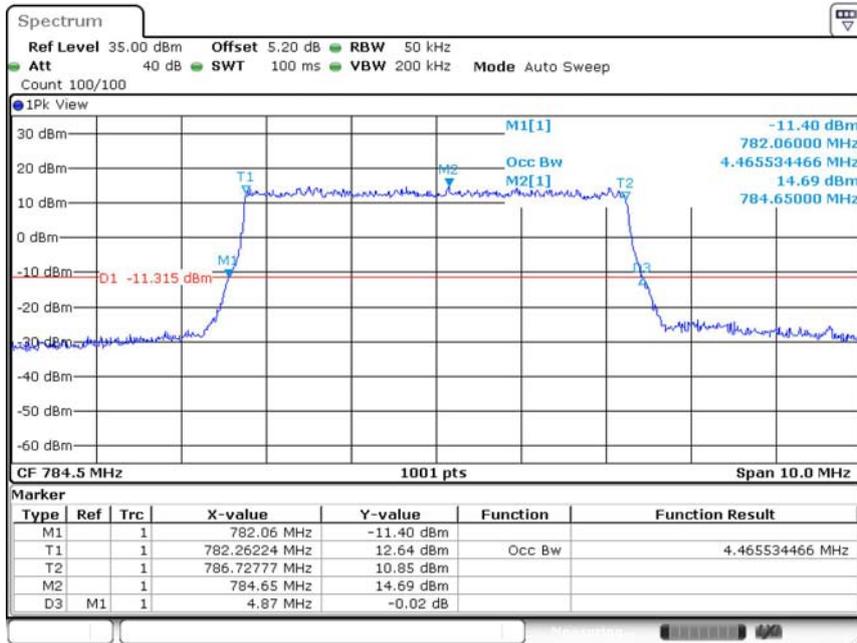
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Band13-5MHz-16QAM-23230-25RB#0



Date: 21.JUL.2021 08:03:11

Band13-5MHz-16QAM-23255-25RB#0

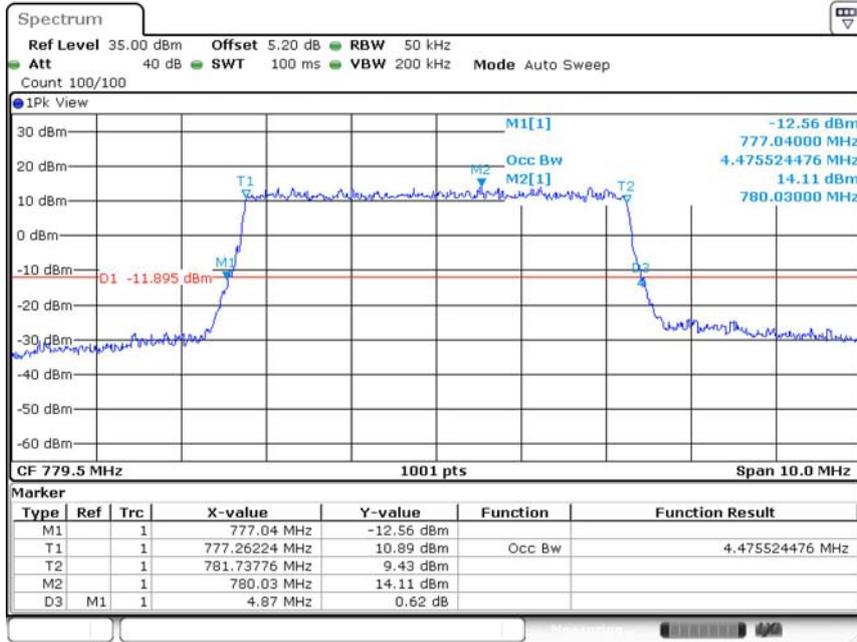


Date: 21.JUL.2021 08:04:00



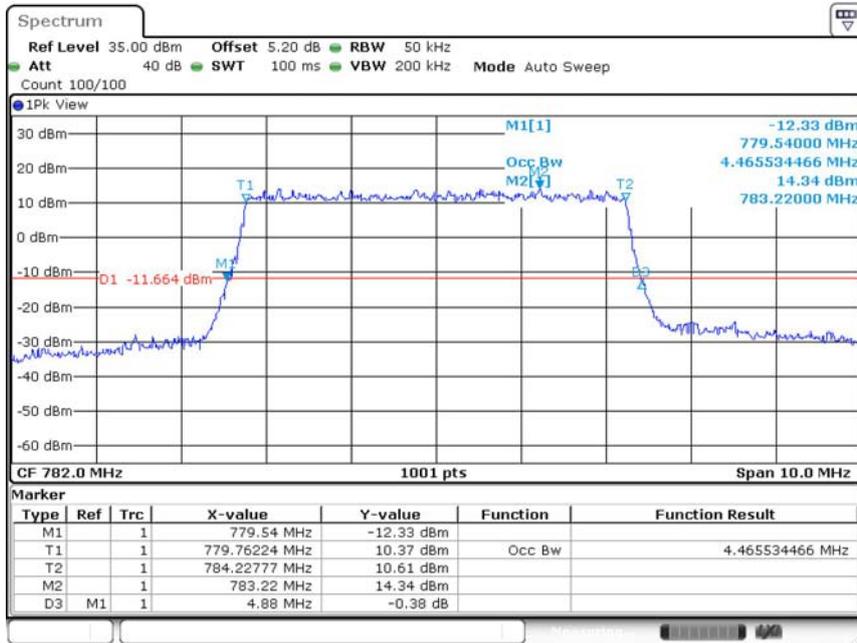
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Band13-5MHz-64QAM-23205-25RB#0



Date: 21.JUL.2021 21:08:53

Band13-5MHz-64QAM-23230-25RB#0

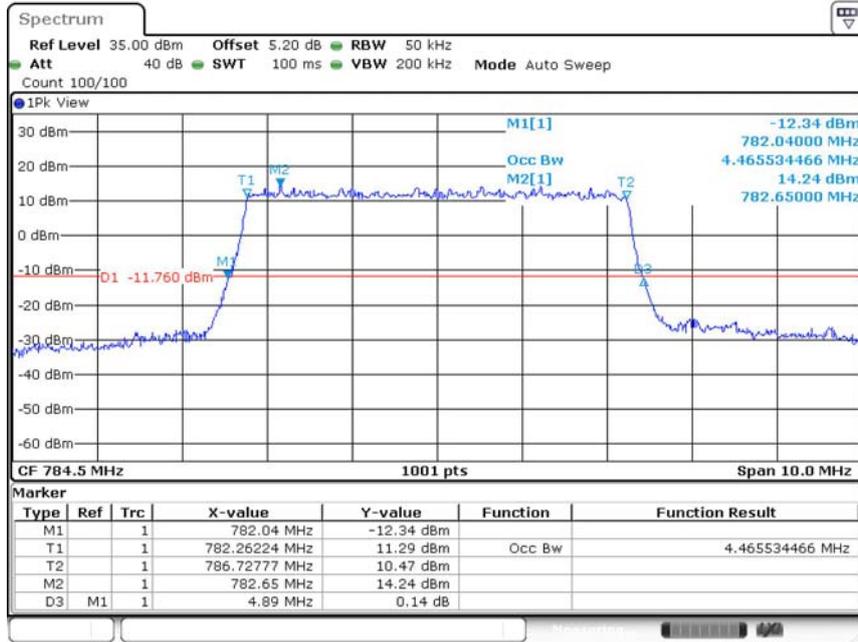


Date: 21.JUL.2021 21:09:18



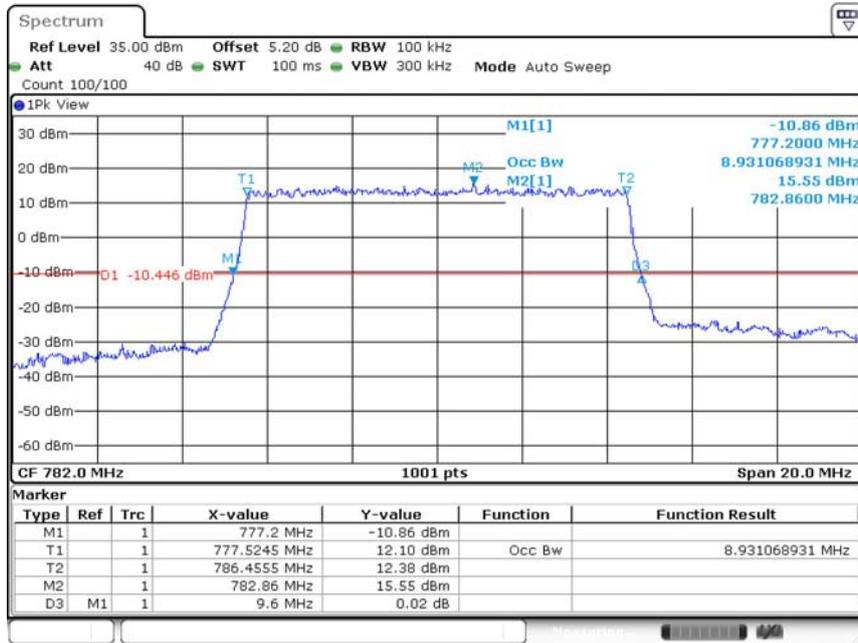
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Band13-5MHz-64QAM-23255-25RB#0



Date: 21.JUL.2021 21:09:43

Band13-10MHz-QPSK-23230-50RB#0

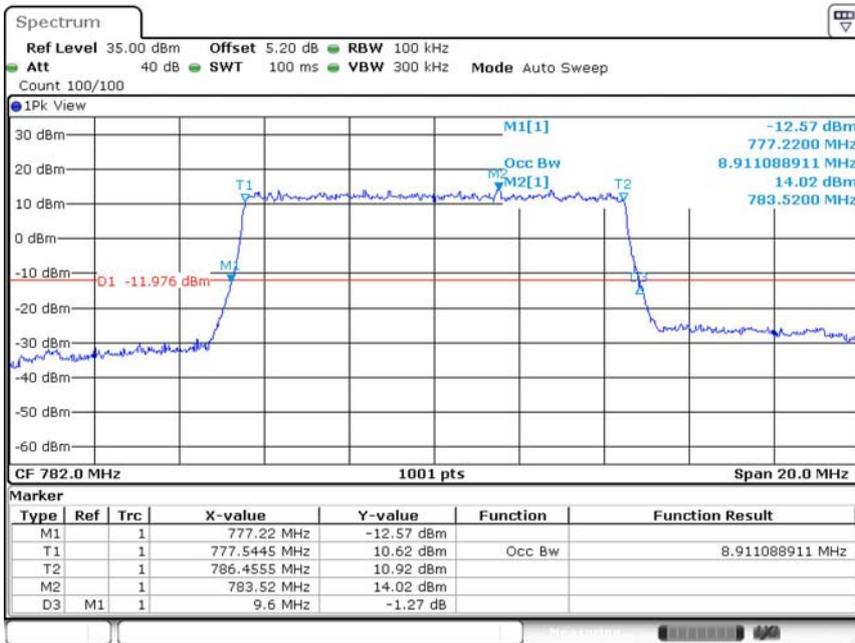


Date: 21.JUL.2021 08:04:47



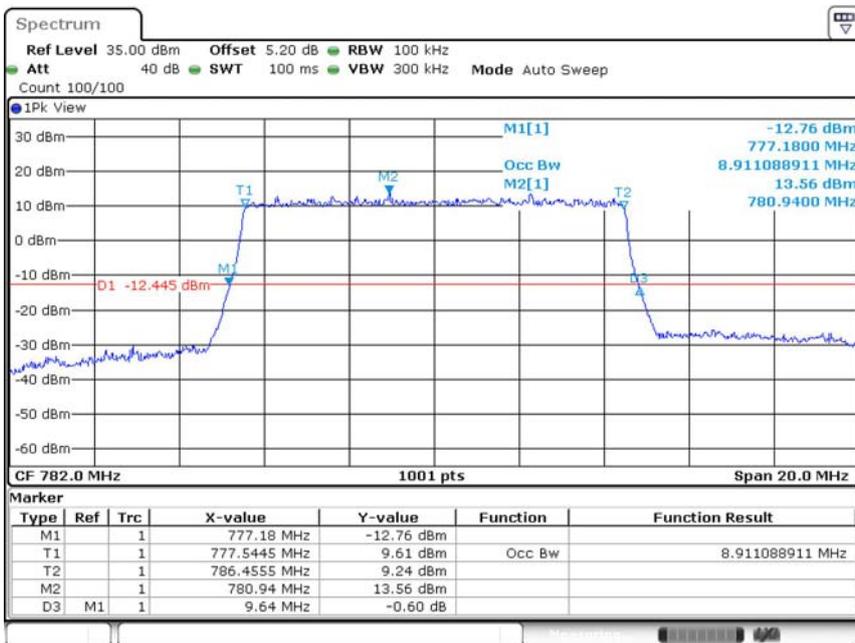
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Band13-10MHz-16QAM-23230-50RB#0



Date: 21.JUL.2021 08:05:11

Band13-10MHz-64QAM-23230-50RB#0



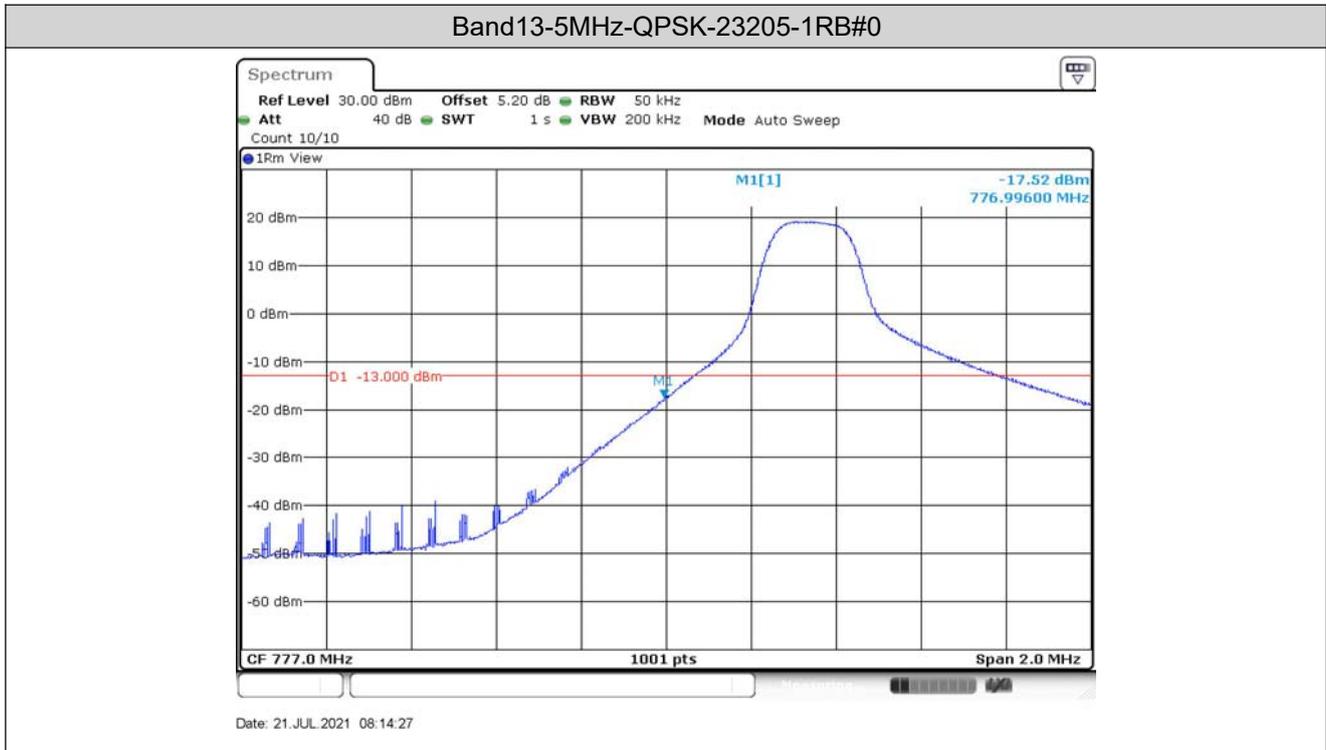
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5. Band Edge Compliance

5.1. Test Plots

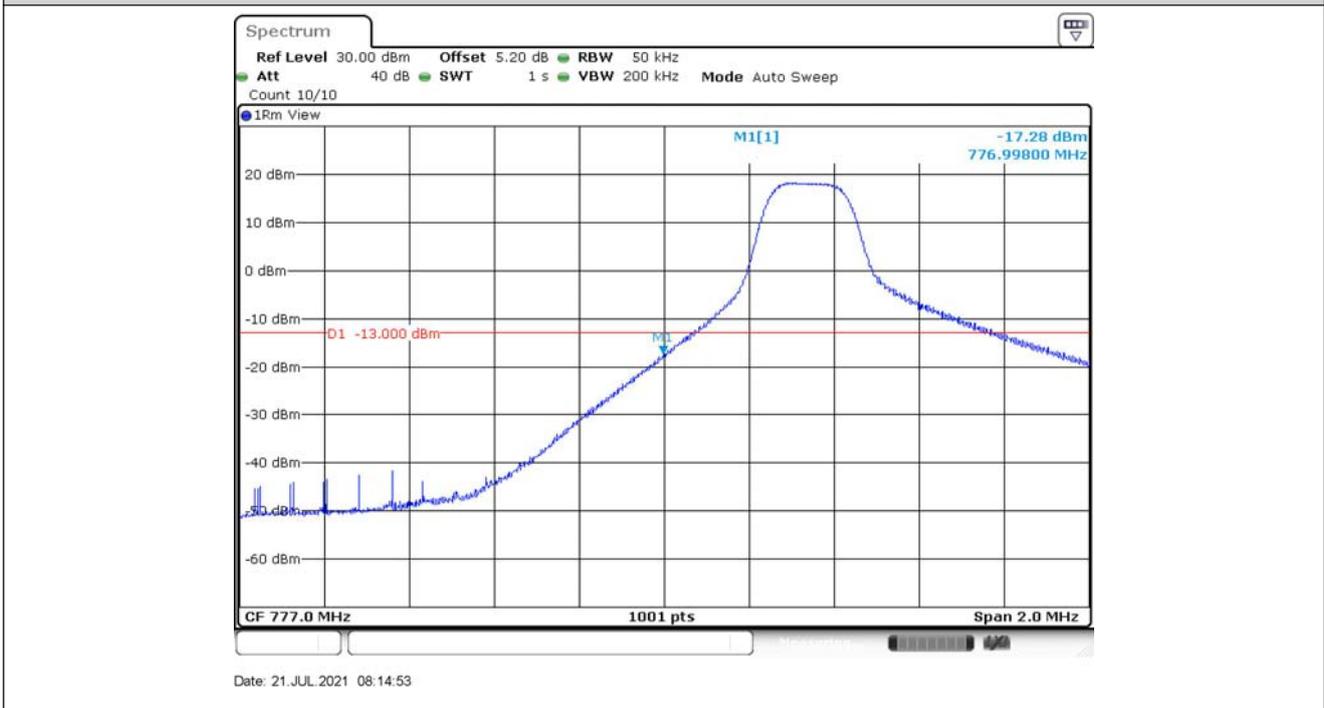


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Band13-5MHz-16QAM-23205-1RB#0



Band13-5MHz-16QAM-23205-25RB#0

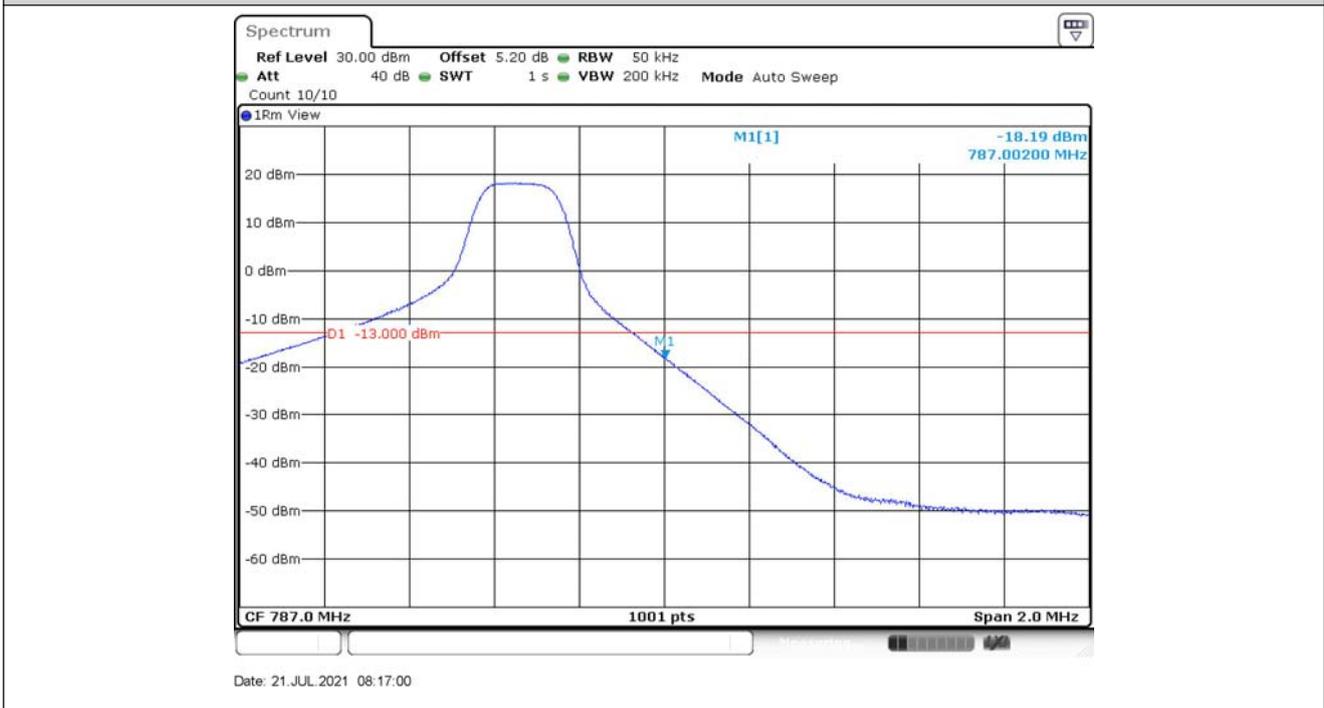


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Band13-5MHz-16QAM-23255-1RB#24



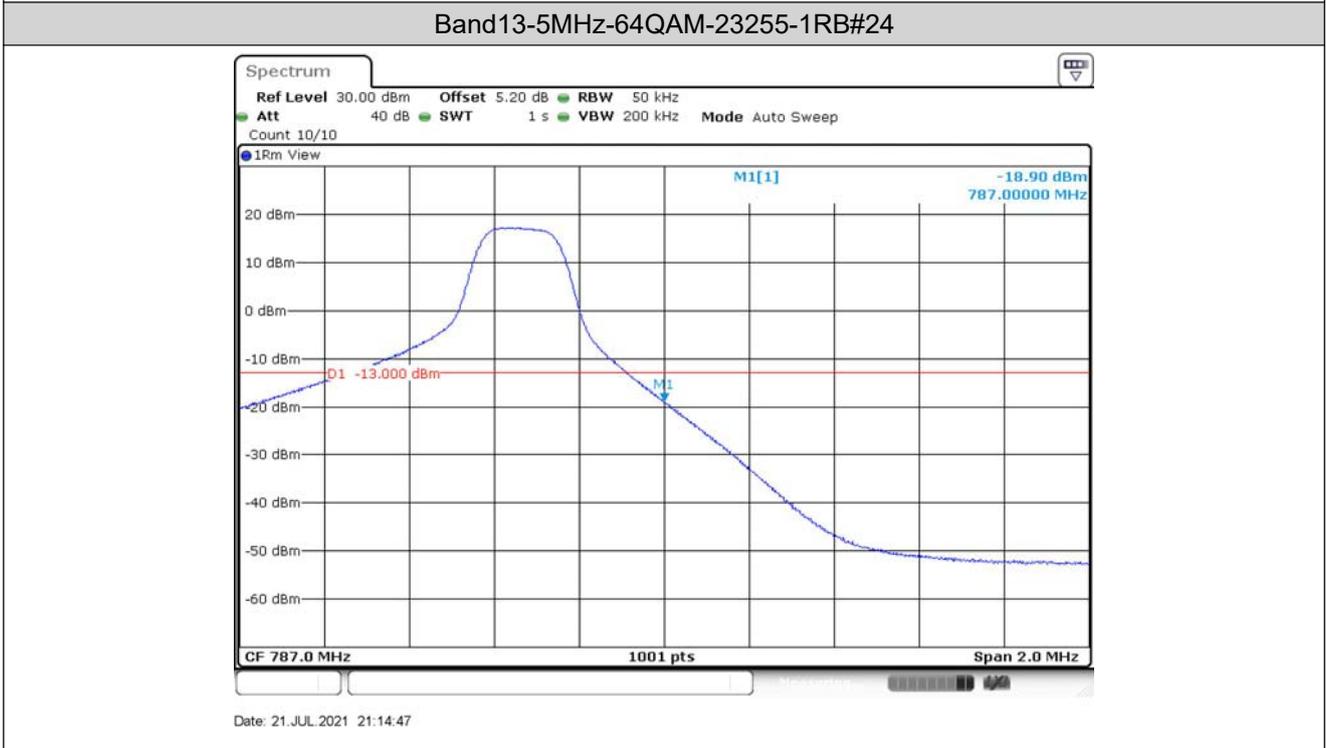
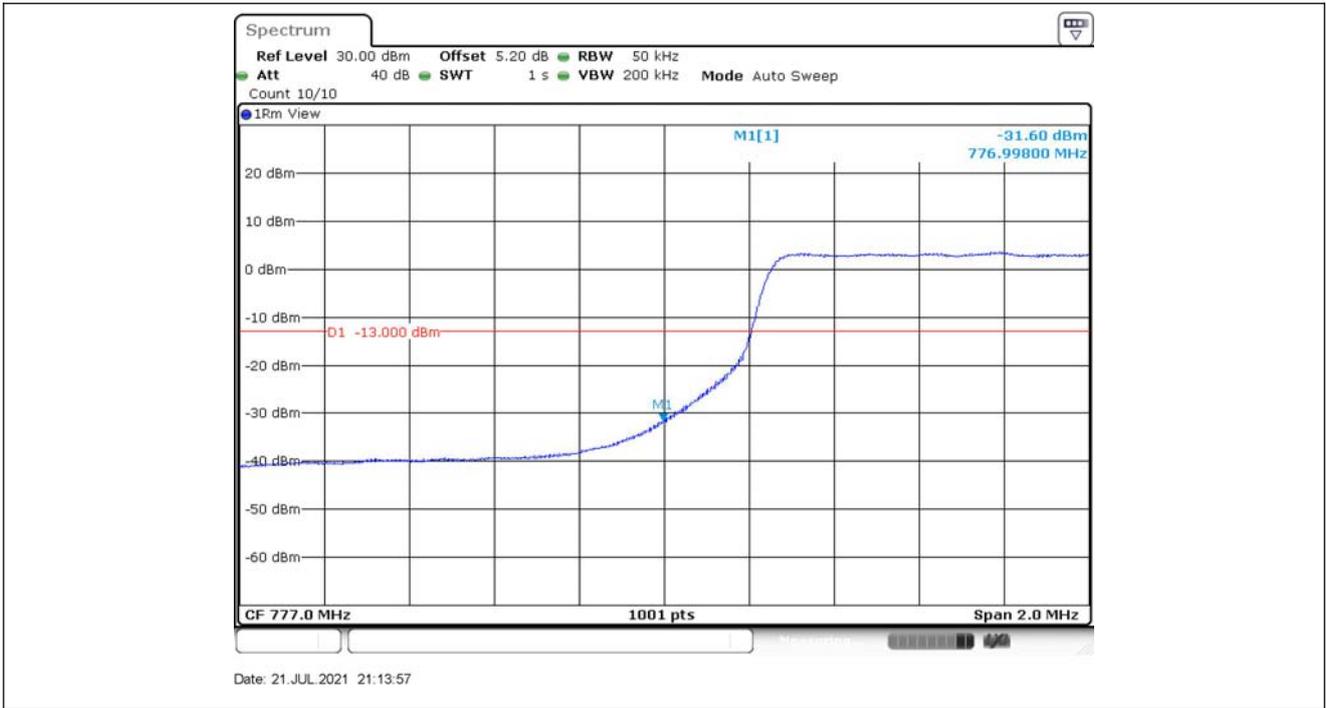
Band13-5MHz-16QAM-23255-25RB#0



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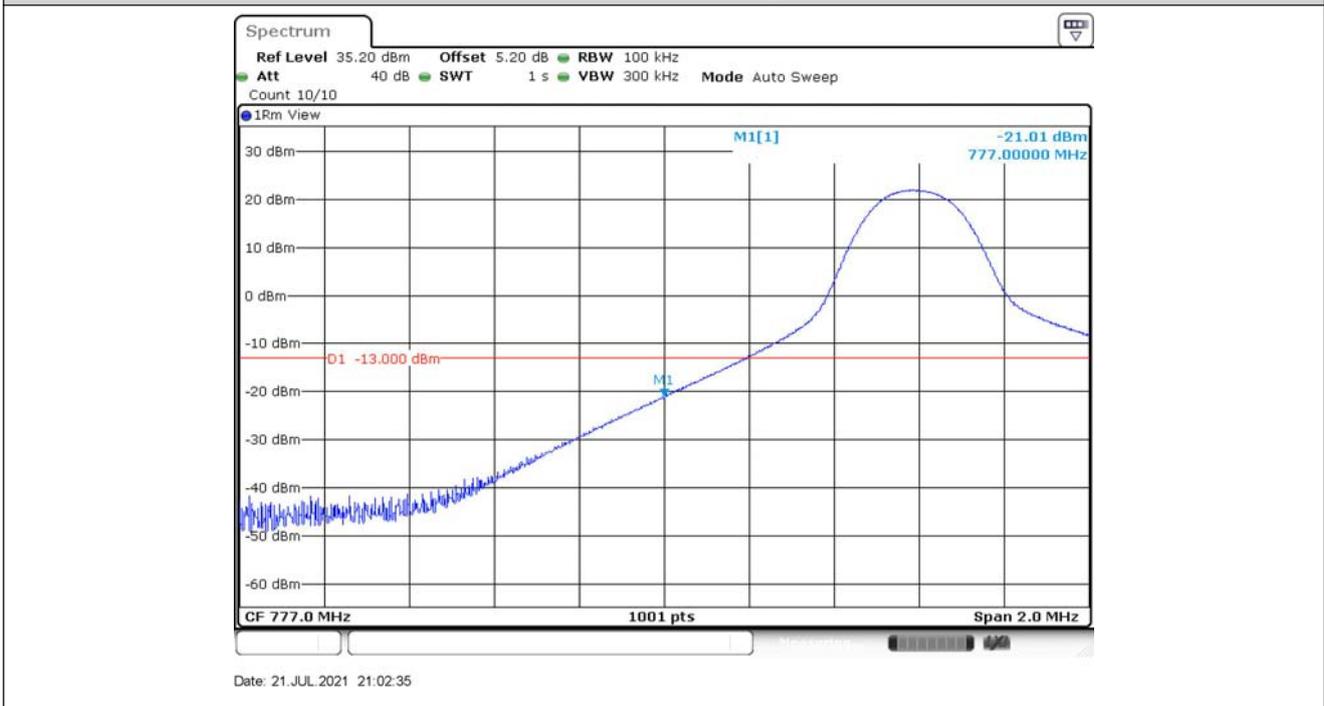


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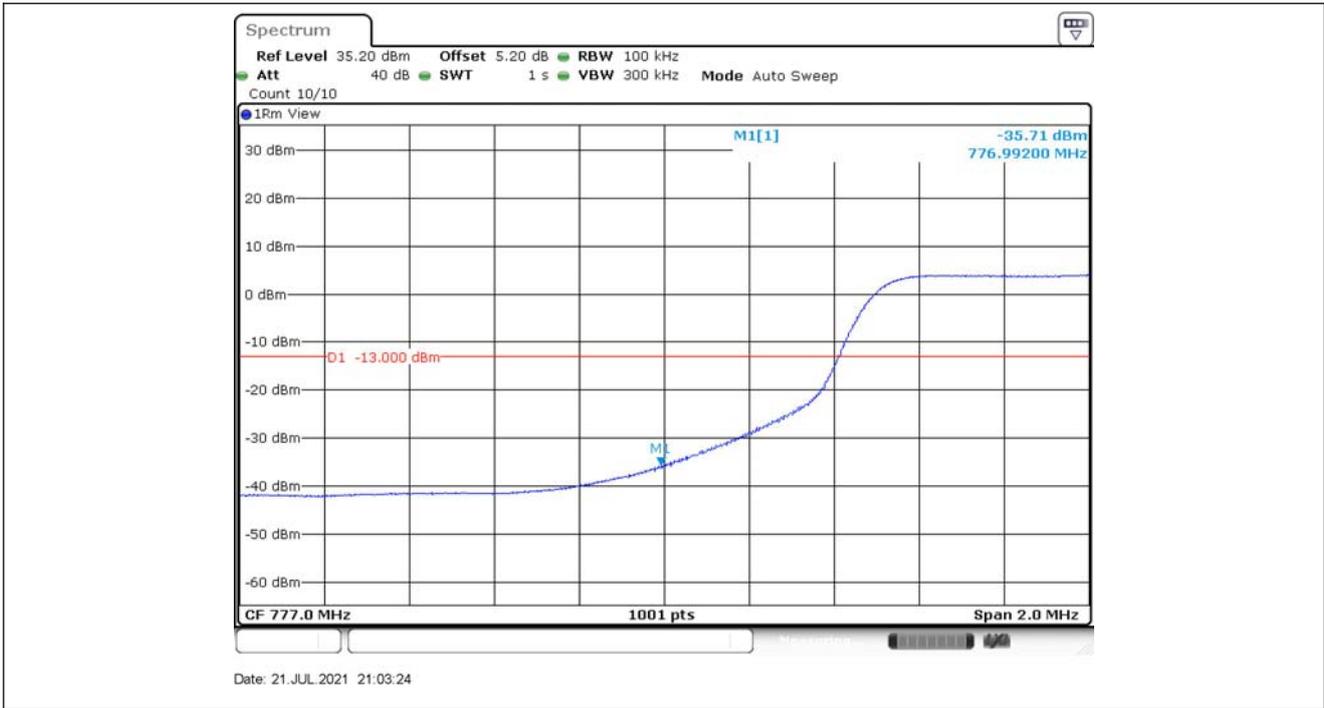
Band13-10MHz-QPSK-23230_Left-1RB#0



Band13-10MHz-QPSK-23230_Left-50RB#0



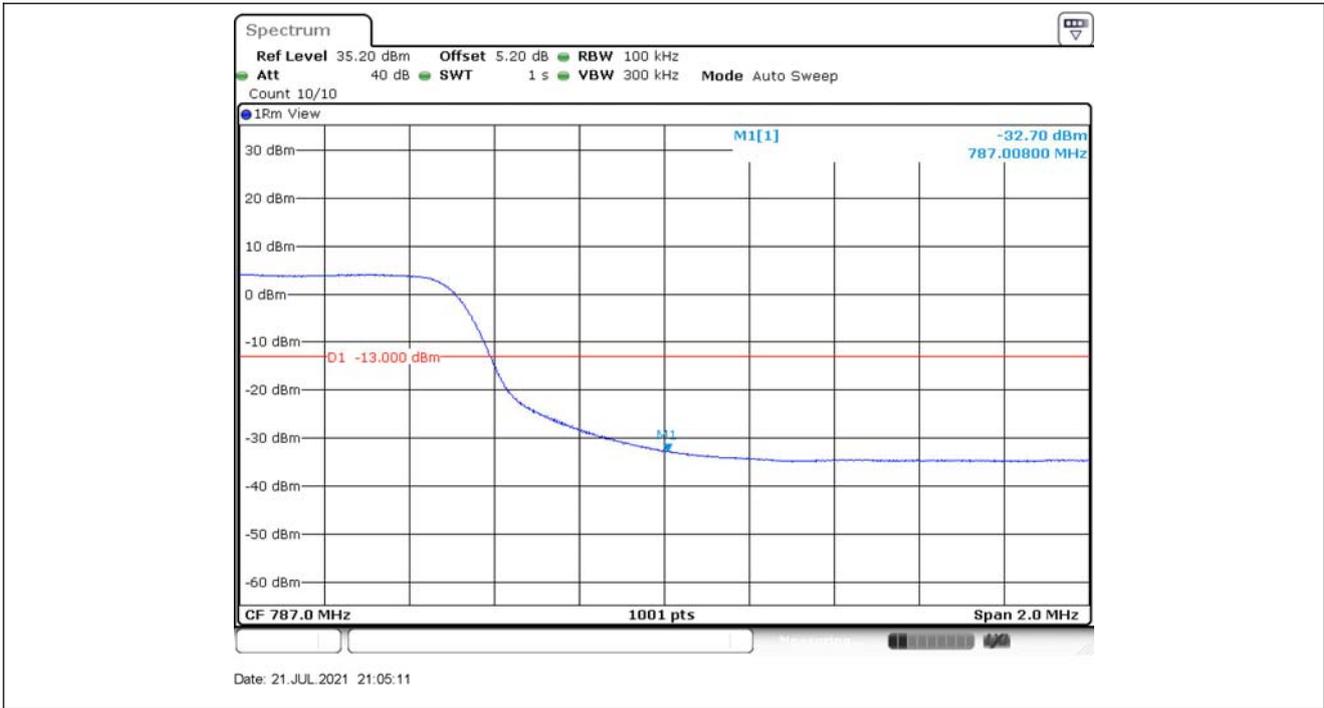
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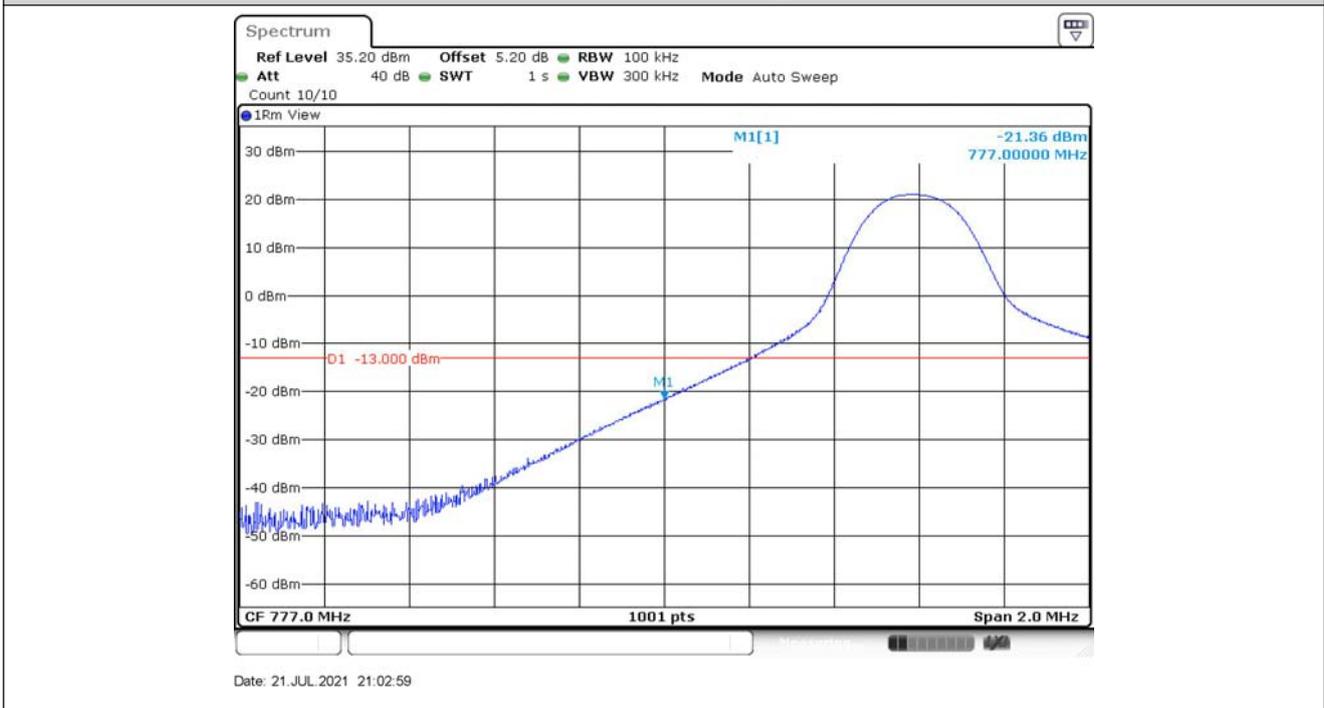
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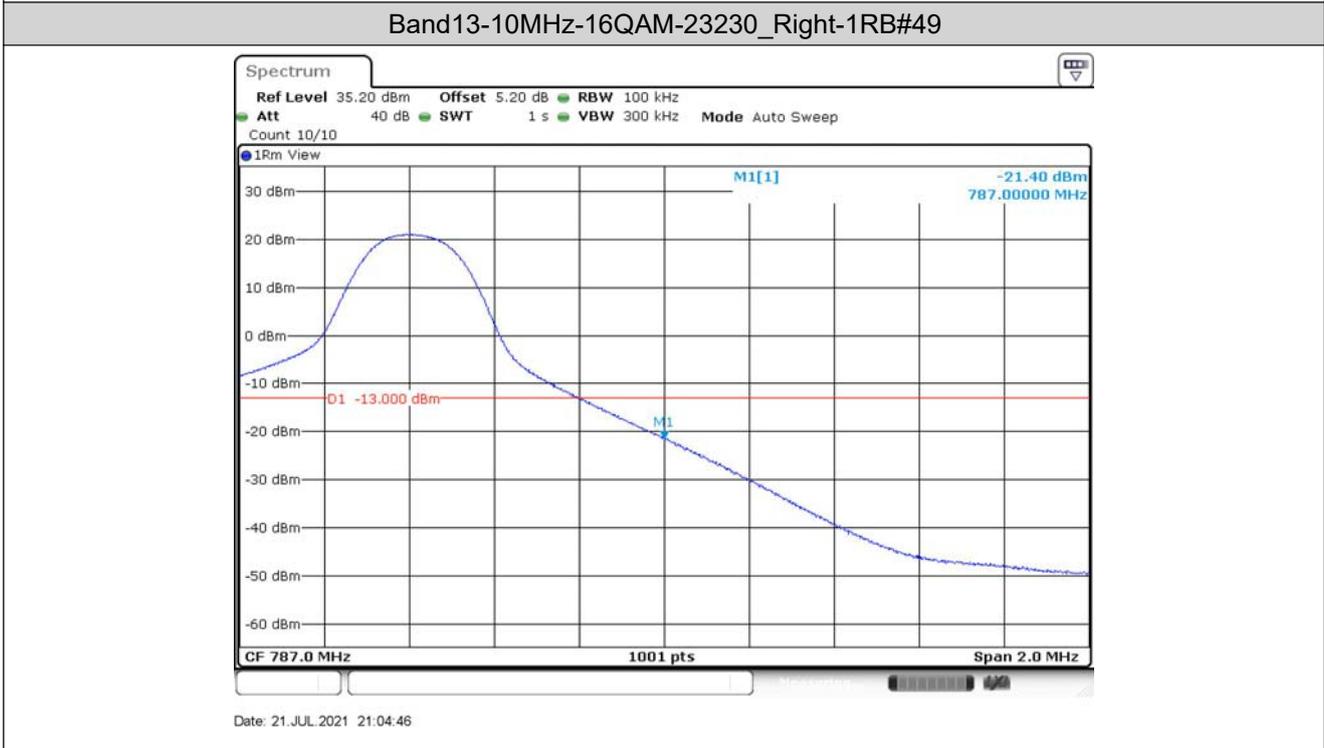
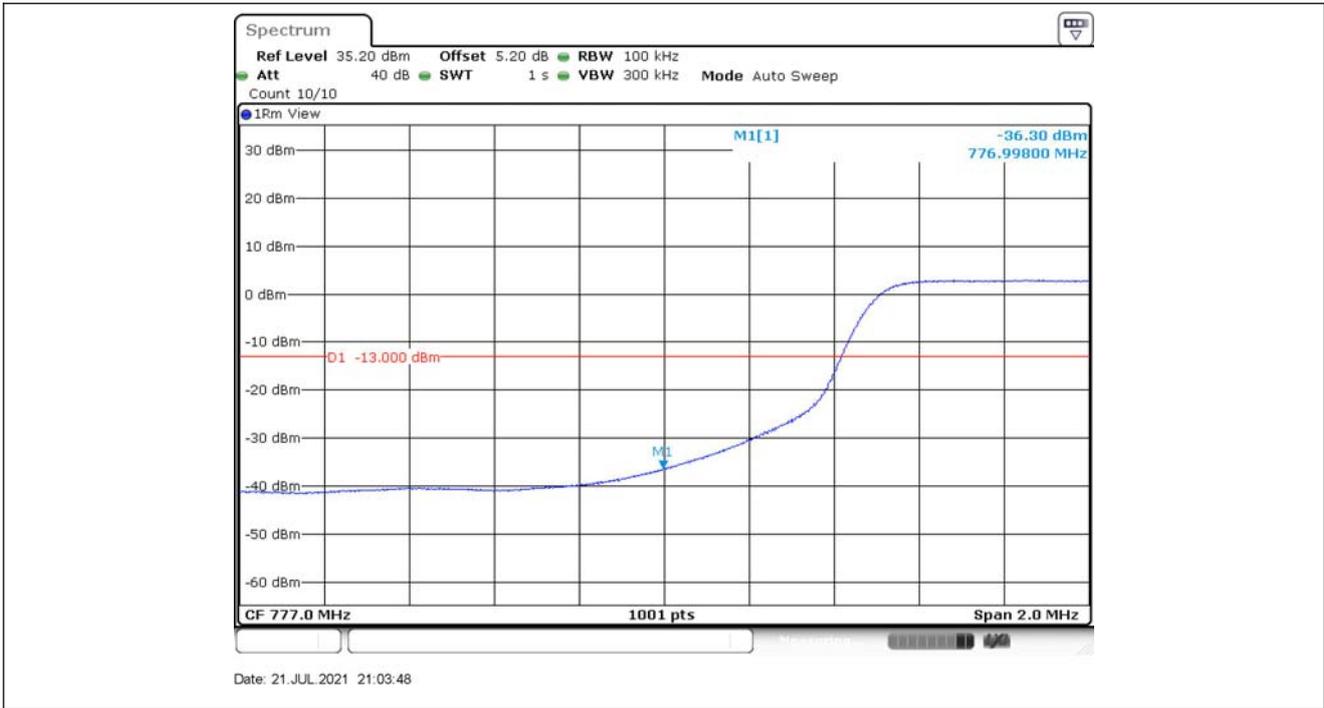
Band13-10MHz-16QAM-23230_Left-1RB#0



Band13-10MHz-16QAM-23230_Left-50RB#0



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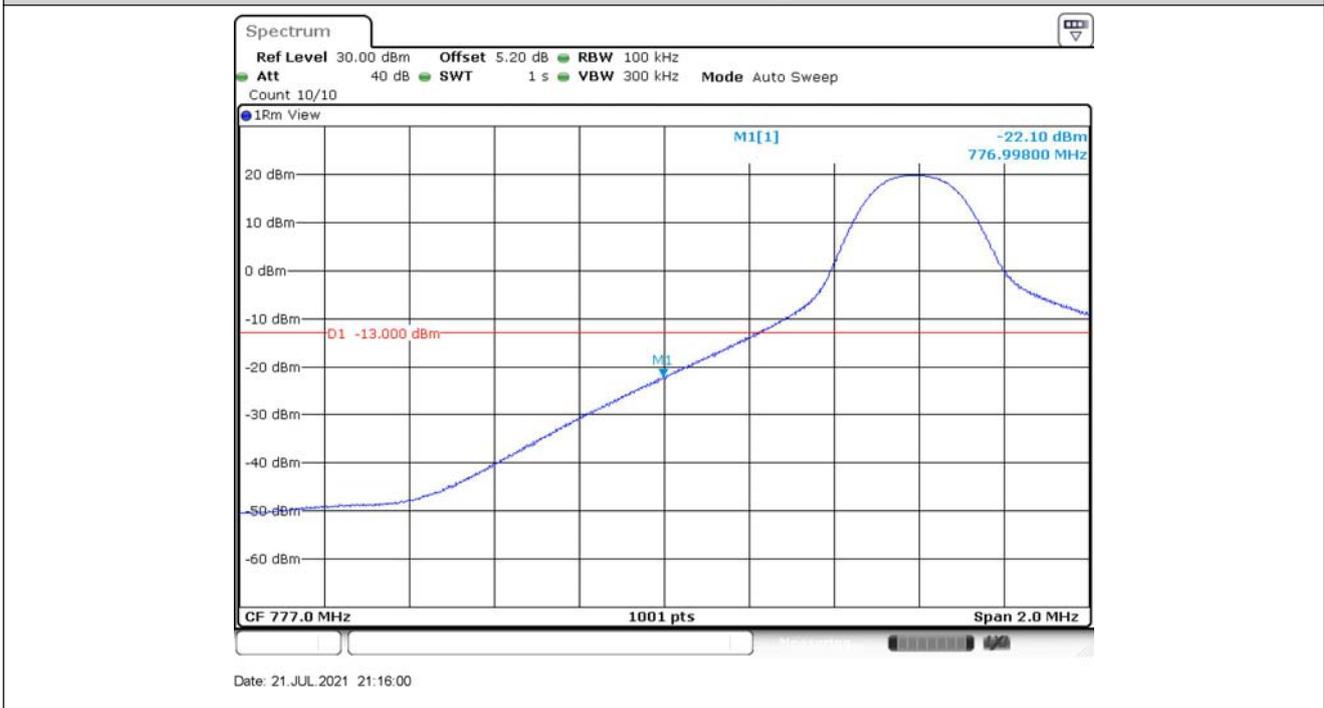
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Band13-10MHz-64QAM-23230_Left-1RB#0



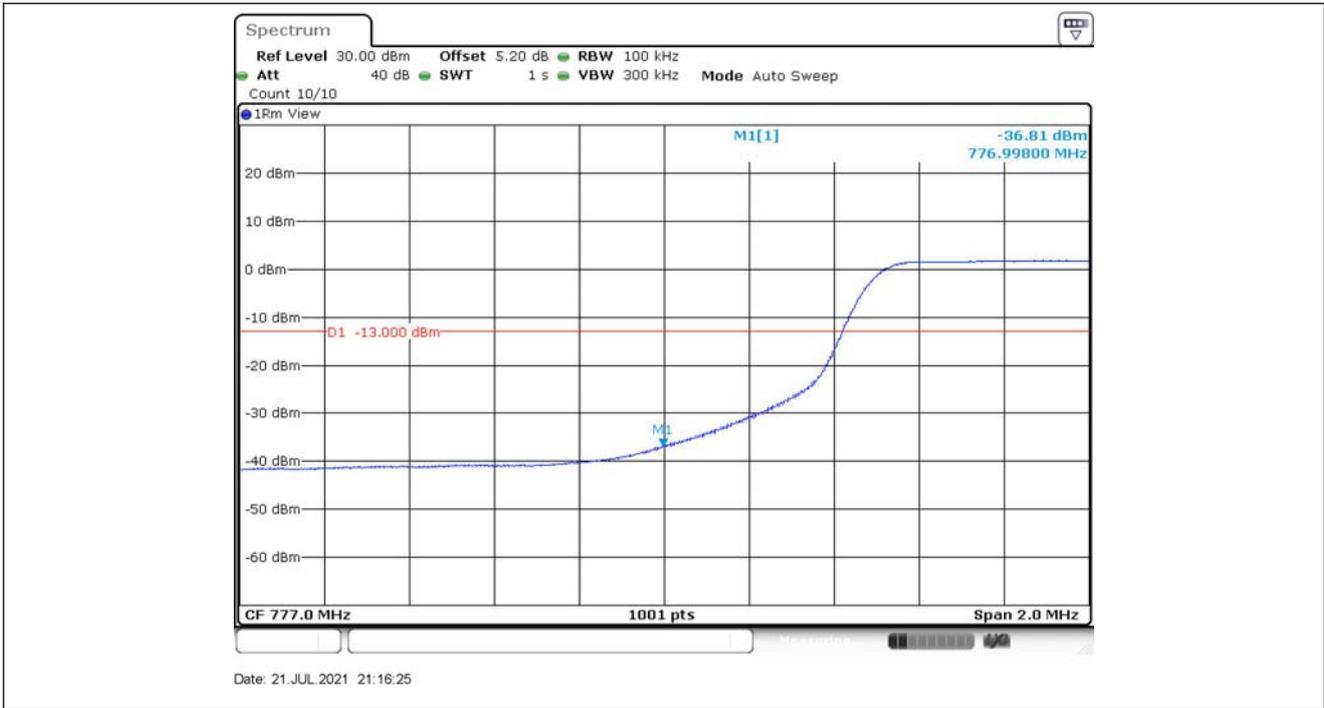
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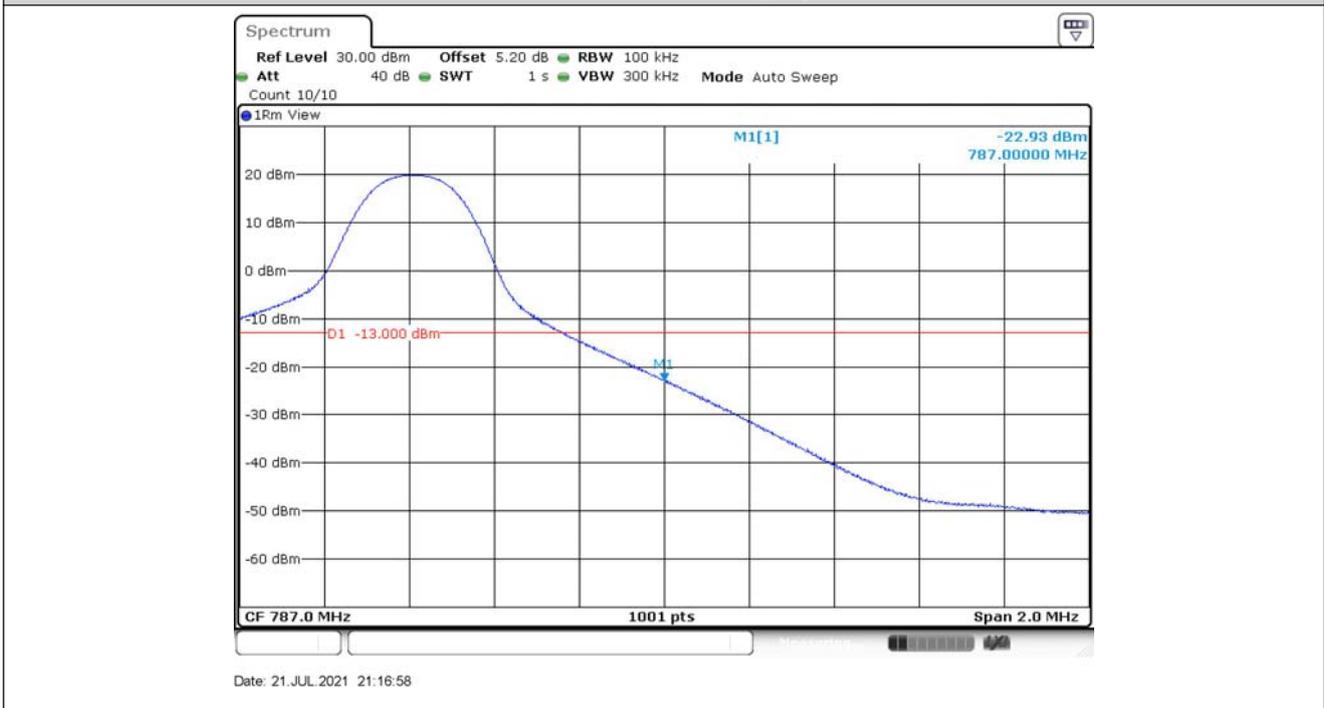
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Band13-10MHz-64QAM-23230_Right-1RB#49



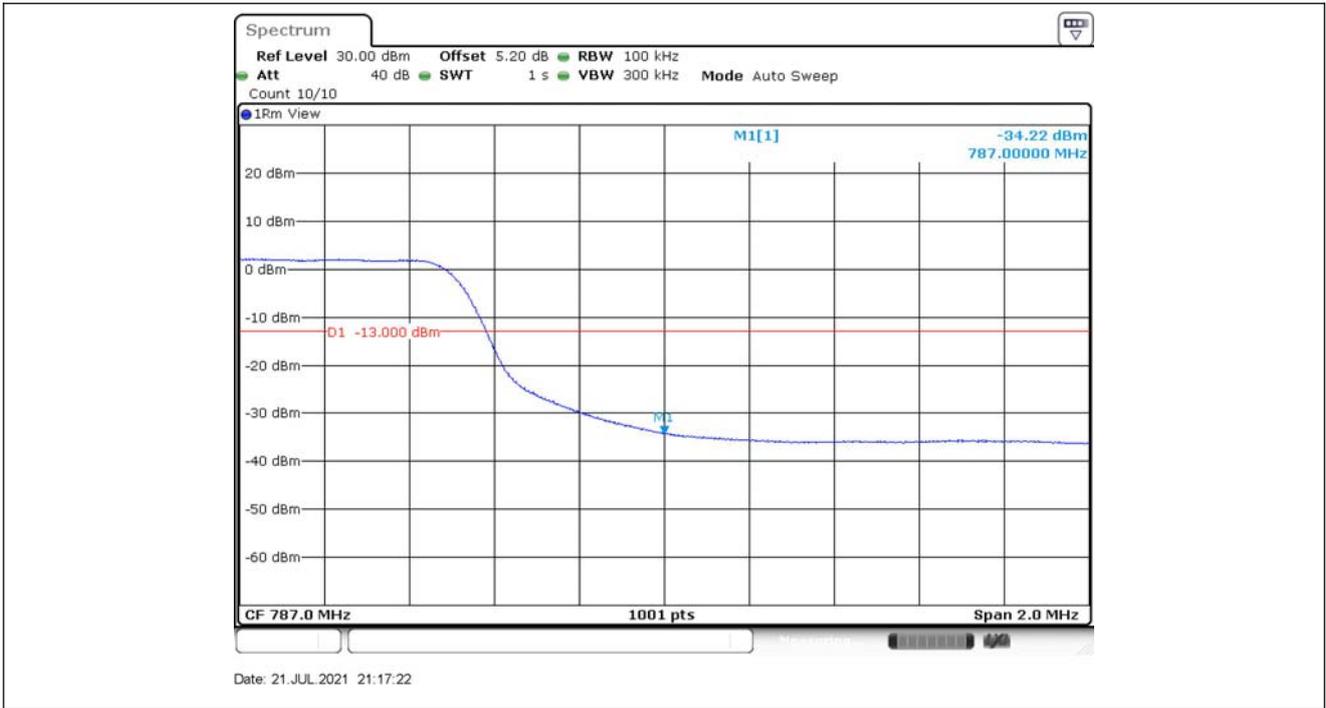
Band13-10MHz-64QAM-23230_Right-50RB#0



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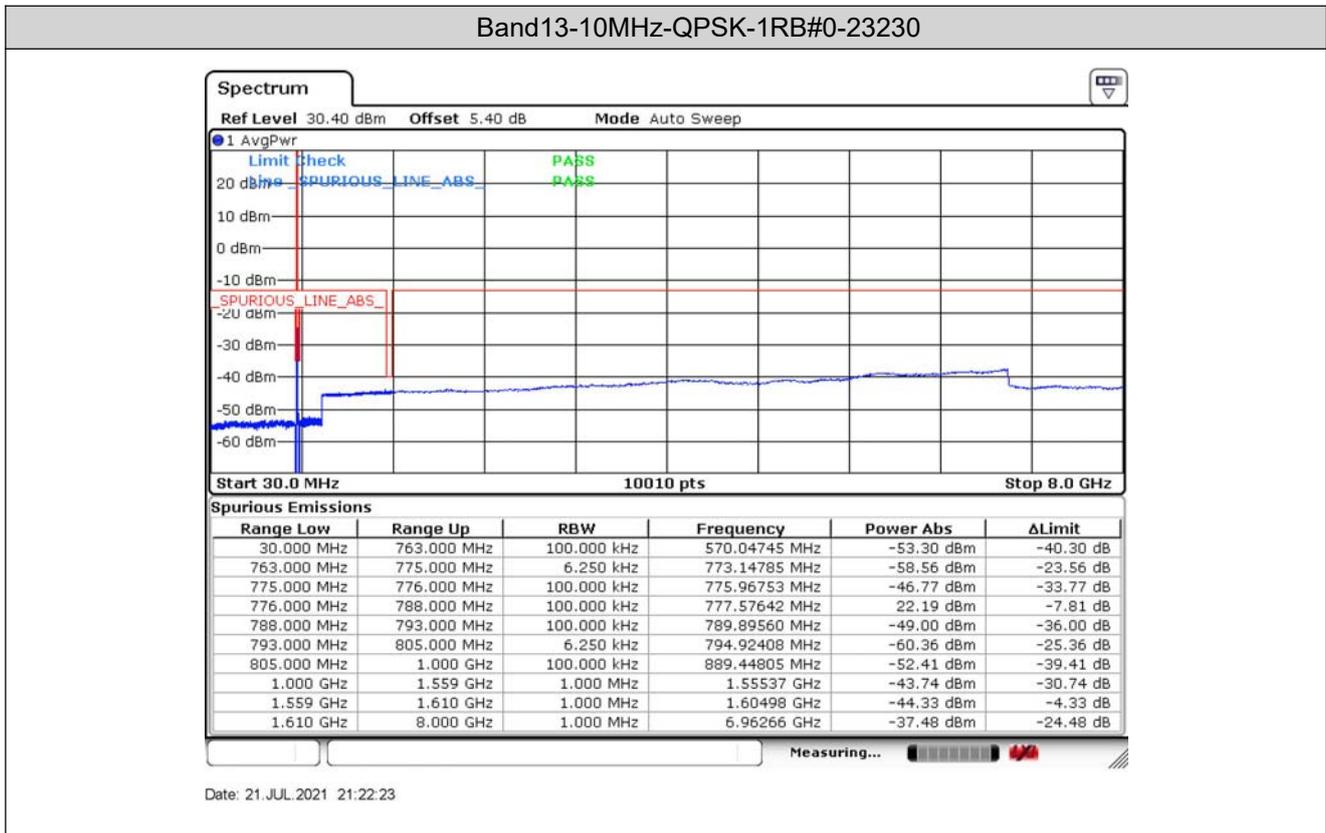
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

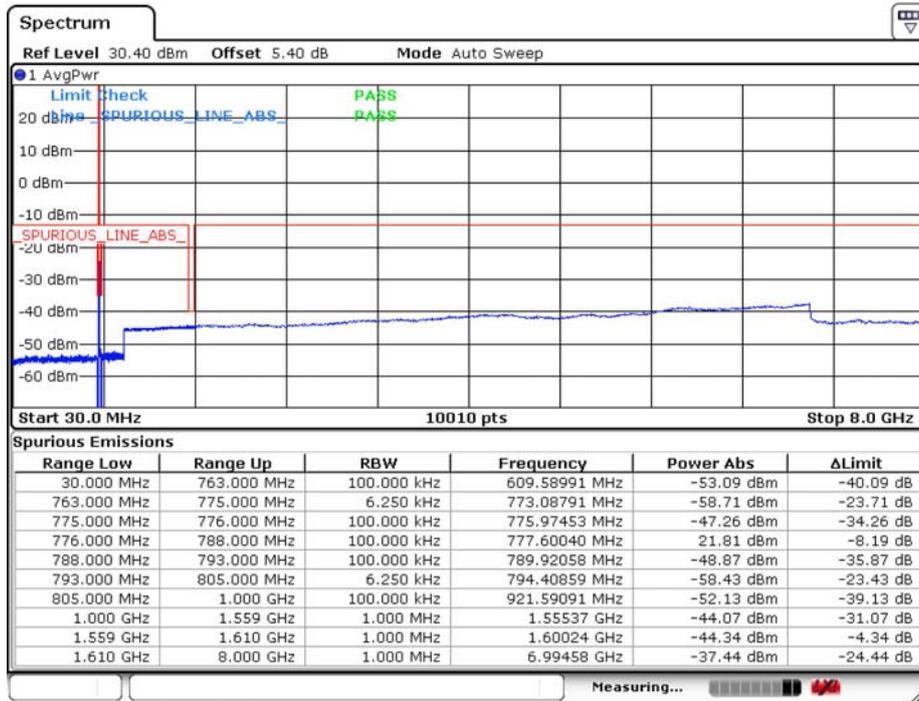
Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots



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Band13-10MHz-16QAM-1RB#0-23230



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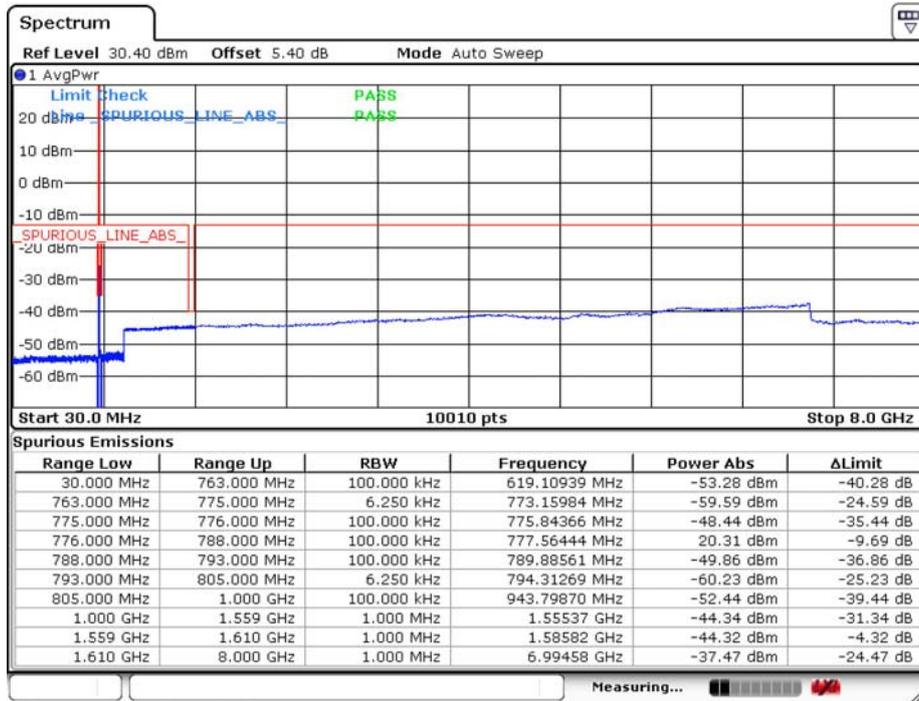


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Band13-10MHz-64QAM-1RB#0-23230



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7. Field Strength of Spurious Radiation

7.1. Test Band = _13 ANT1

7.1.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.2278	27.28	-62.00	-13.00	49.00	Horizontal
2	1600.1300	21.54	-67.91	-40.00	27.91	Horizontal
3	2434.1717	22.32	-63.13	-13.00	50.13	Horizontal
4	5246.7623	51.29	-57.68	-13.00	44.68	Horizontal
5	7131.2566	49.35	-53.80	-13.00	40.80	Horizontal
6	9927.8964	47.76	-50.47	-13.00	37.47	Horizontal



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7.2. Test Band = _13 ANT1

7.2.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.2278	27.28	-62.00	-13.00	49.00	Horizontal
2	1600.1300	21.54	-67.91	-40.00	27.91	Horizontal
3	2434.1717	22.32	-63.13	-13.00	50.13	Horizontal
4	5246.7623	51.29	-57.68	-13.00	44.68	Horizontal
5	7131.2566	49.35	-53.80	-13.00	40.80	Horizontal
6	9927.8964	47.76	-50.47	-13.00	37.47	Horizontal



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7.3. Test Band = _13 ANT3

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.2278	44.63	-44.65	-13.00	31.65	Horizontal
2	1565.6283	21.39	-67.93	-40.00	27.93	Horizontal
3	2332.6666	54.20	-32.29	-13.00	19.29	Horizontal
4	3110.2555	60.72	-55.72	-13.00	42.72	Horizontal
5	7487.9244	49.90	-52.23	-13.00	39.23	Horizontal
6	9952.7476	47.51	-50.69	-13.00	37.69	Horizontal



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7.4. Test Band = _13 ANT3

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1278	34.16	-55.12	-13.00	42.12	Vertical
2	1587.9294	21.26	-68.14	-40.00	28.14	Vertical
3	2332.9666	35.27	-51.23	-13.00	38.23	Vertical
4	2995.5998	22.39	-60.50	-13.00	47.50	Vertical
5	6751.4876	49.68	-54.21	-13.00	41.21	Vertical
6	9058.1029	48.63	-50.59	-13.00	37.59	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.20	0.001535	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	6.10	0.007801	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	2.00	0.002558	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	0.60	0.000767	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	5.20	0.006650	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	6.60	0.008440	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	2.80	0.003581	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	2.10	0.002685	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VH	NT	0.10	0.000128	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	0.80	0.001023	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	3.70	0.004731	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	3.20	0.004092	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	2.20	0.002813	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	3.70	0.004731	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	2.20	0.002813	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	5.20	0.006650	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	6.80	0.008696	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	3.70	0.004731	±2.5	PASS



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Band13	10MHz	16QAM	23230	50RB#0	NV	0	2.60	0.003325	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	3.30	0.004220	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	5.70	0.007289	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	2.70	0.003453	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	2.00	0.002558	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-2.00	-0.002558	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	1.70	0.002174	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-10	0.40	0.000512	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	0.50	0.000639	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	2.90	0.003708	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	3.90	0.004987	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	3.20	0.004092	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	3.70	0.004731	±2.5	PASS

The End



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