

Appendix B

E-UTRA Band 13



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.55	16.90	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#13	23.80	17.15	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.85	17.20	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.67	16.02	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.67	16.02	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.69	16.04	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.74	16.09	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.71	17.06	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#13	23.58	16.93	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.30	16.65	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.68	16.03	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.61	15.96	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.59	15.94	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.70	16.05	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.59	16.94	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#13	23.30	16.65	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.48	16.83	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.66	16.01	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.49	15.84	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.50	15.85	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.53	15.88	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.62	14.97	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#13	21.61	14.96	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.58	14.93	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.62	13.97	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.59	13.94	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.72	14.07	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.54	13.89	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.63	14.98	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#13	21.59	14.94	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.50	14.85	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.53	13.88	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.50	13.85	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.69	14.04	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.60	13.95	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.55	14.90	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#13	21.55	14.90	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.50	14.85	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.66	14.01	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.69	14.04	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.61	13.96	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.59	13.94	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.63	15.98	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#13	23.02	16.37	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.73	16.08	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.69	15.04	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.64	14.99	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.75	15.10	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.72	15.07	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.24	16.59	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#13	22.92	16.27	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.95	16.30	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.68	15.03	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.69	15.04	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.60	14.95	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.69	15.04	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.10	16.45	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#13	22.89	16.24	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.54	15.89	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.70	15.05	34.77	PASS



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Band13	5MHz	16QAM	23255	12RB#6	21.45	14.80	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.51	14.86	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.66	15.01	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.56	16.91	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#25	23.60	16.95	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.53	16.88	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.96	16.31	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#13	22.68	16.03	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.49	15.84	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.79	16.14	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.54	14.89	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#25	21.52	14.87	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.55	14.90	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.67	14.02	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#13	20.62	13.97	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.54	13.89	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.58	13.93	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.44	16.79	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#25	22.38	15.73	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.64	15.99	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.63	14.98	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#13	21.77	15.12	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.55	14.90	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.69	15.04	34.77	PASS

Remark:

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

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

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



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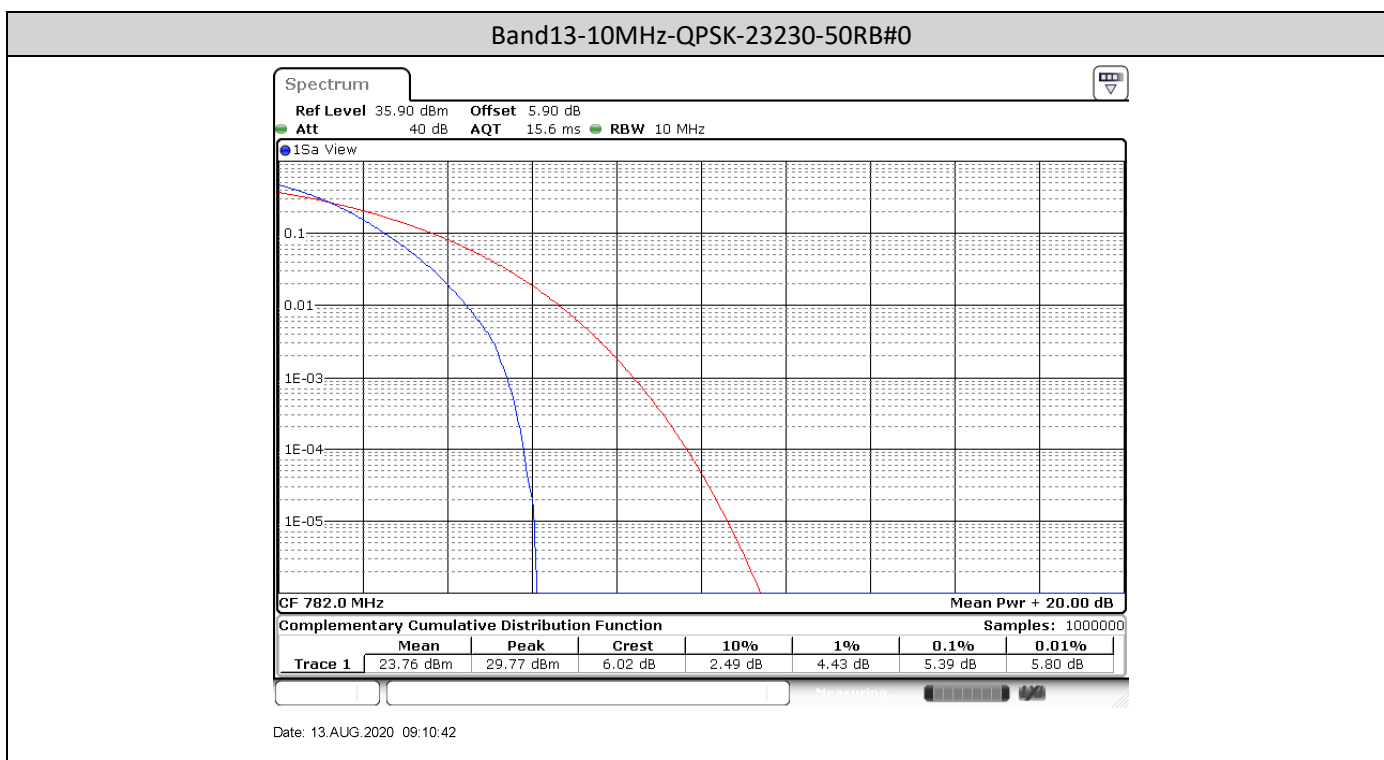


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.39	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.41	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.09	13	PASS

2.2. Test Plots



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



Date: 19.AUG.2020 08:57:32

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



Date: 13.AUG.2020 09:10:50

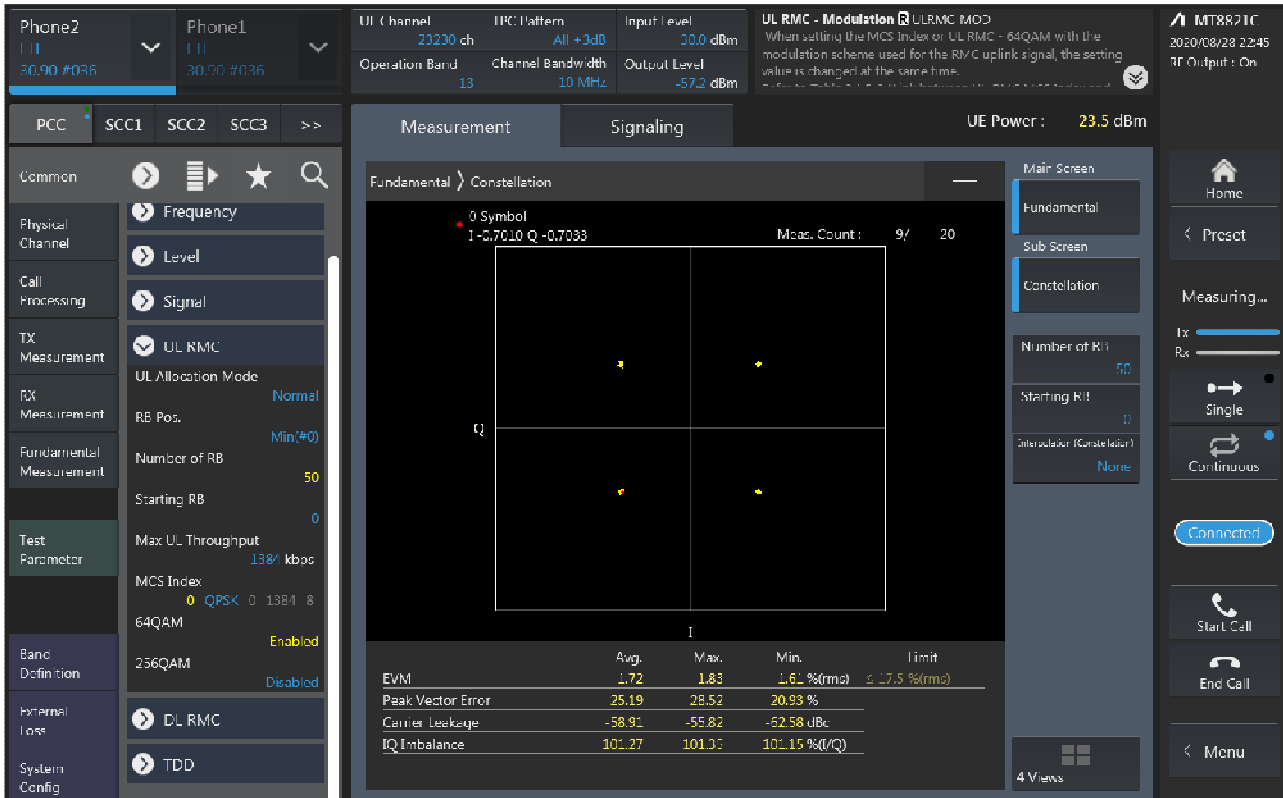


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH

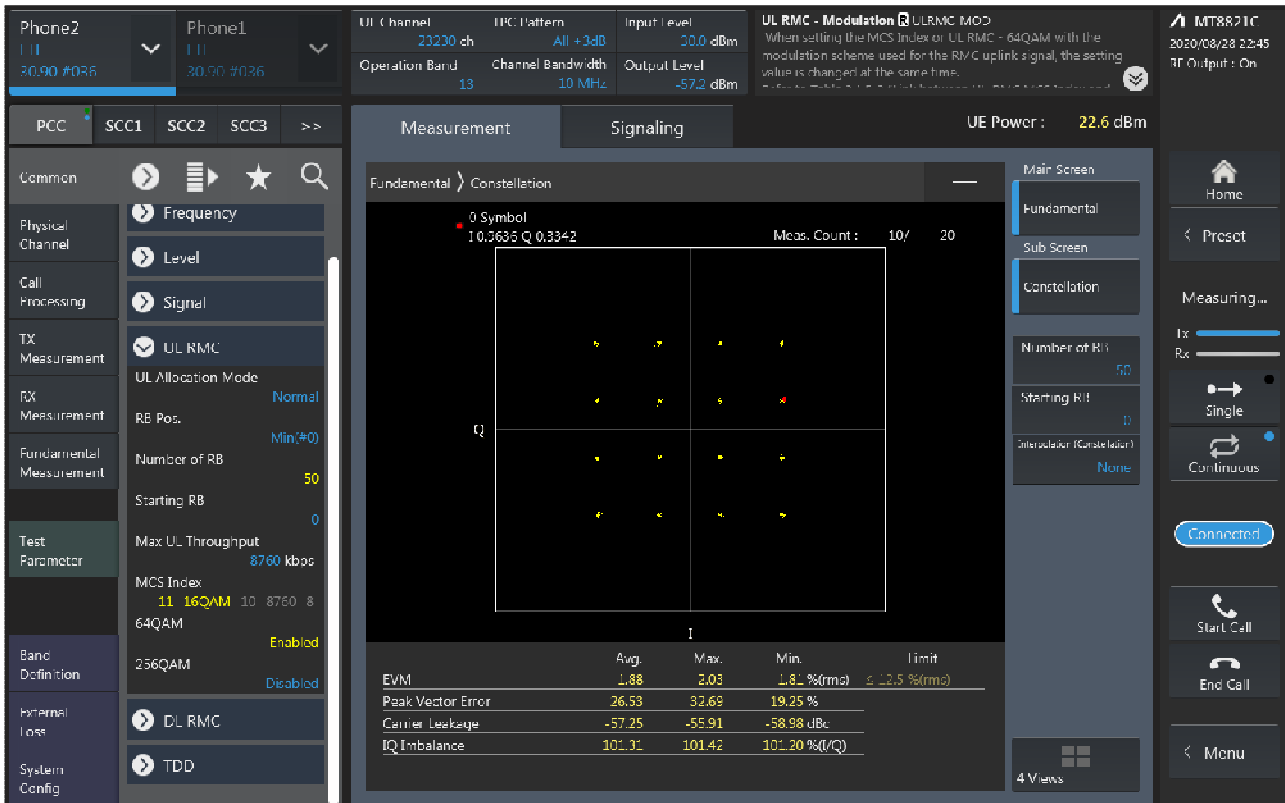


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH

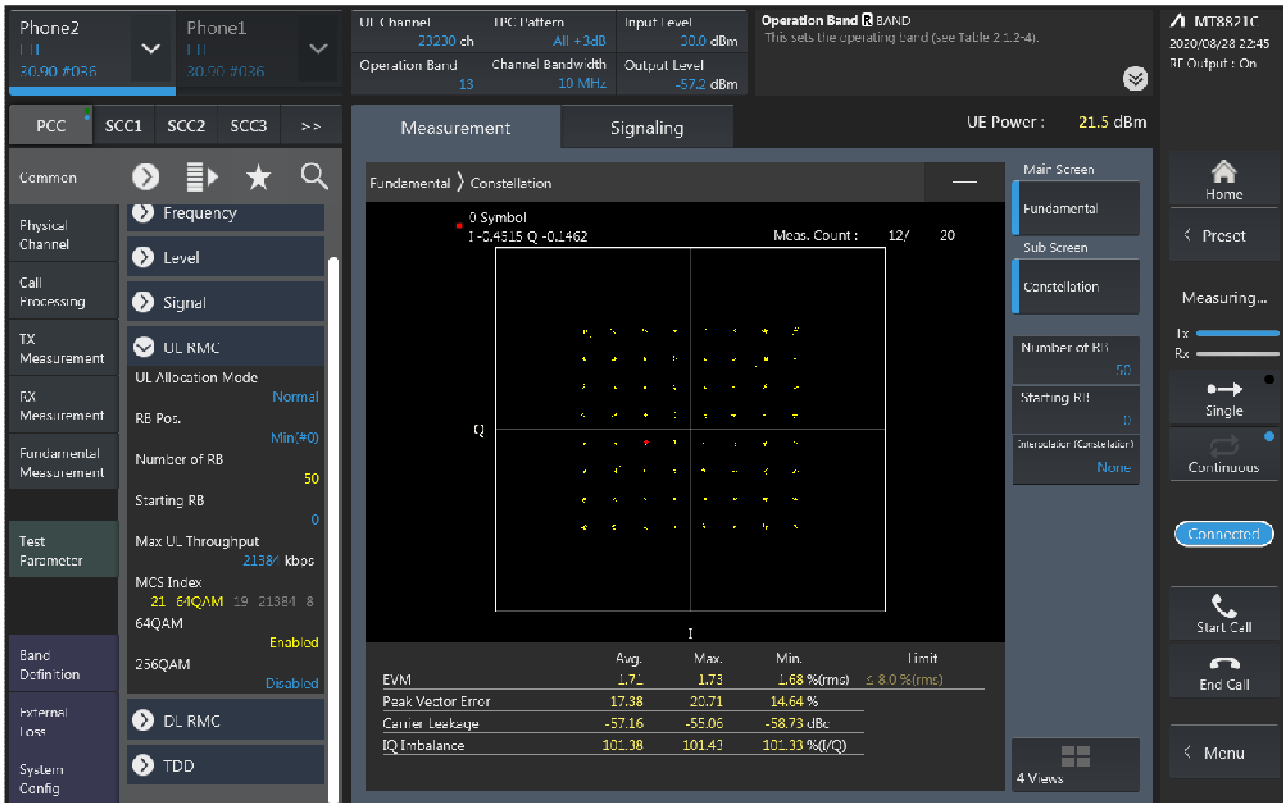


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3.3. Test Mode = LTE /TM3 10MHz

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	4.456	4.880	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.930	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.930	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.870	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.486	4.920	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.900	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.940	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	4.950	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	4.970	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.680	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.680	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.740	PASS



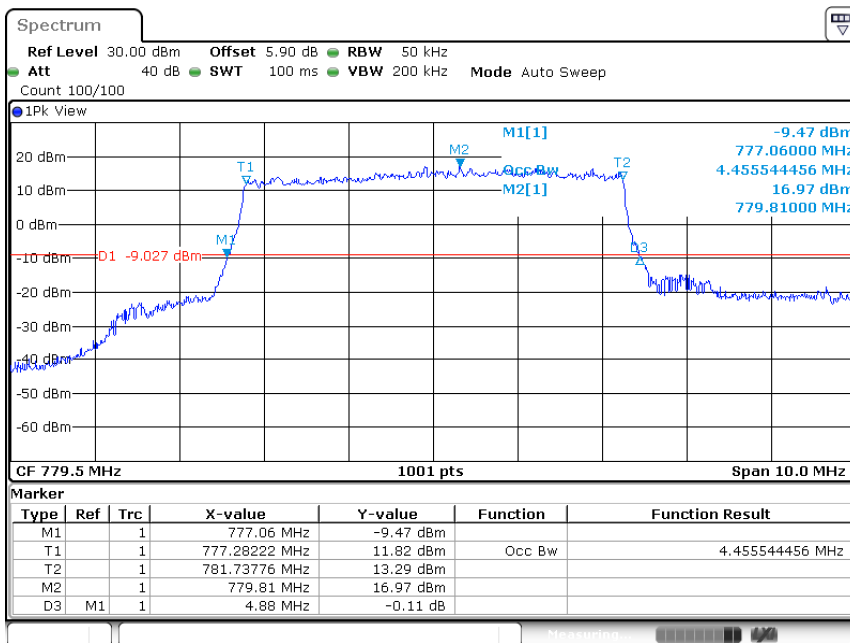
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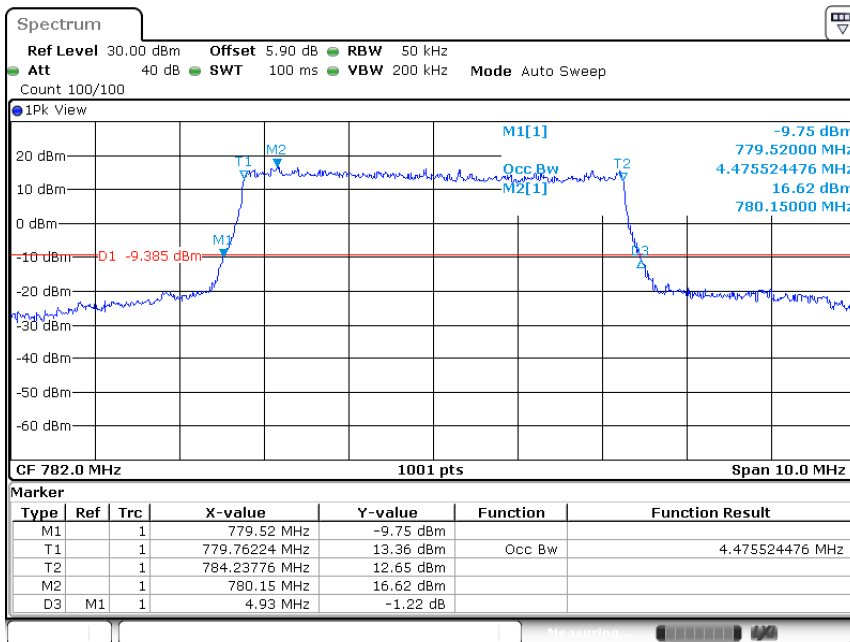
4.2. Test Plots

Band13-5MHz-QPSK-23205-25RB#0-4.456



Date: 13.AUG.2020 09:04:37

Band13-5MHz-QPSK-23230-25RB#0-4.476

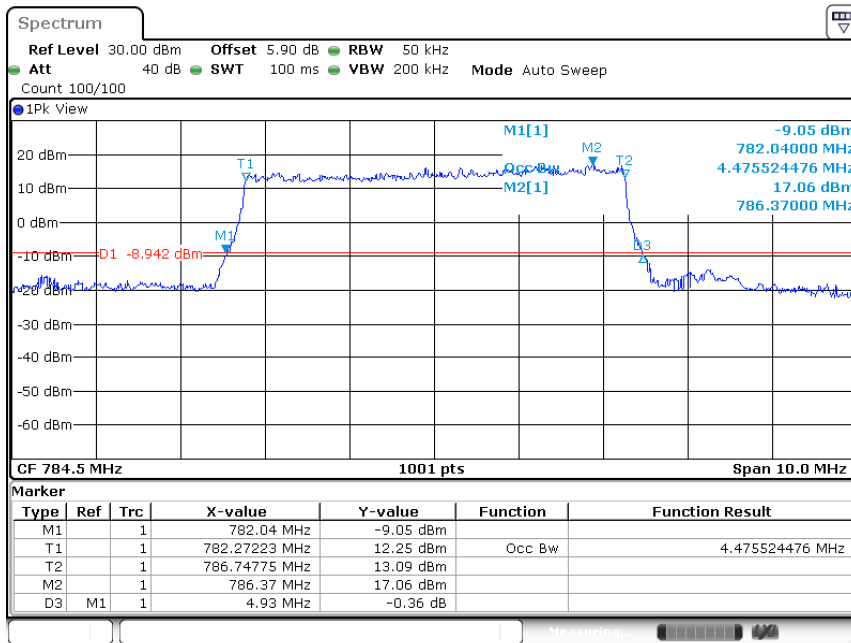


Date: 13.AUG.2020 09:05:10



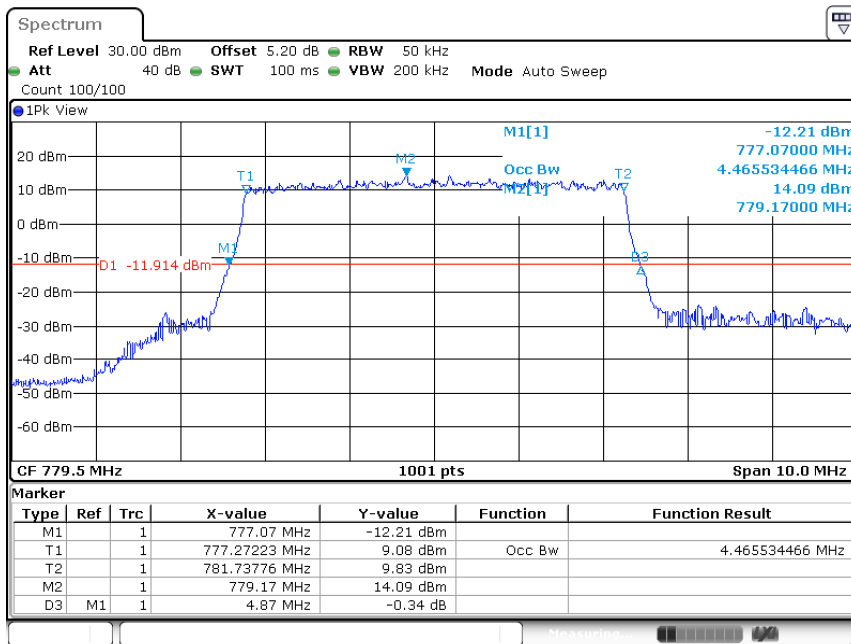
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Band13-5MHz-QPSK-23255-25RB#0-4.476



Date: 13.AUG.2020 09:05:44

Band13-5MHz-64QAM-23205-25RB#0-4.466

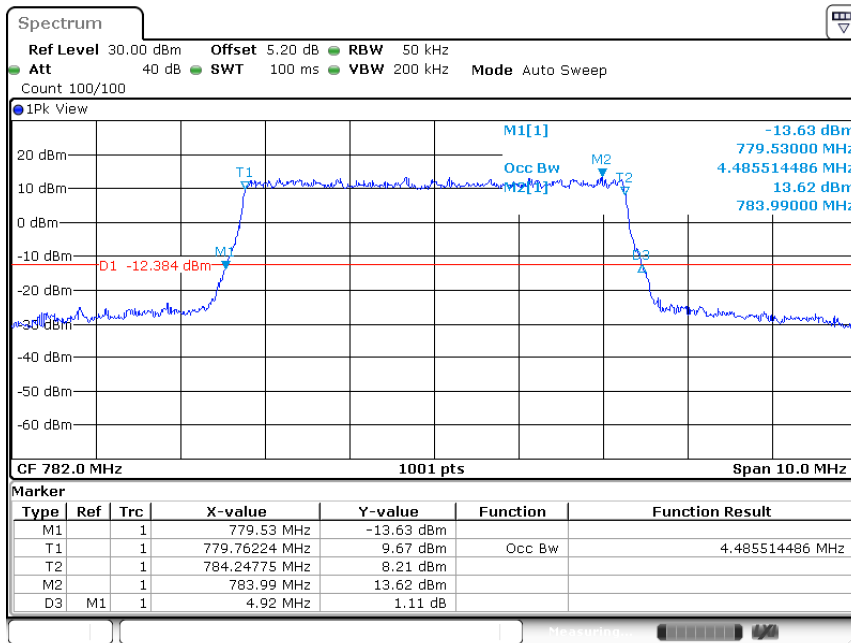


Date: 19.AUG.2020 08:52:16



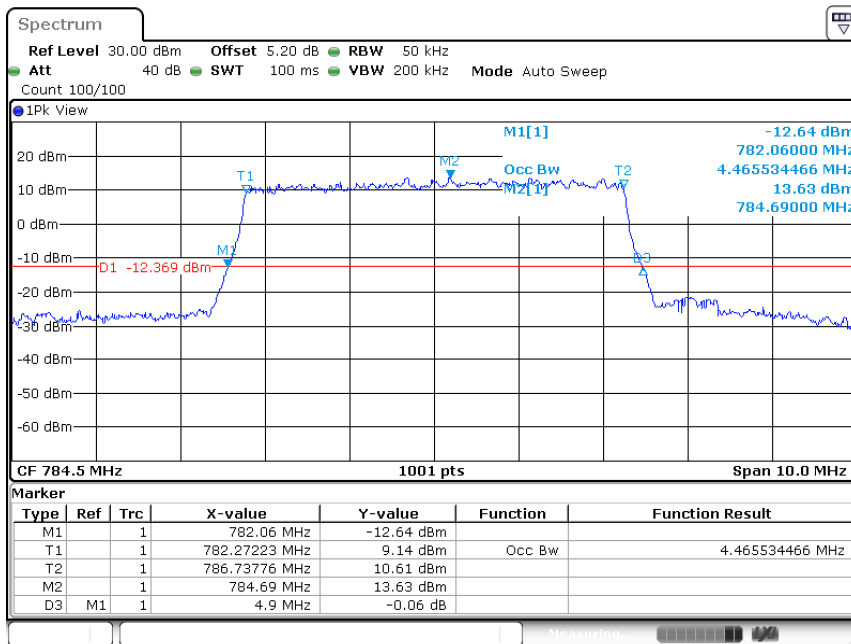
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Band13-5MHz-64QAM-23230-25RB#0-4.486



Date: 19.AUG.2020 08:52:37

Band13-5MHz-64QAM-23255-25RB#0-4.466

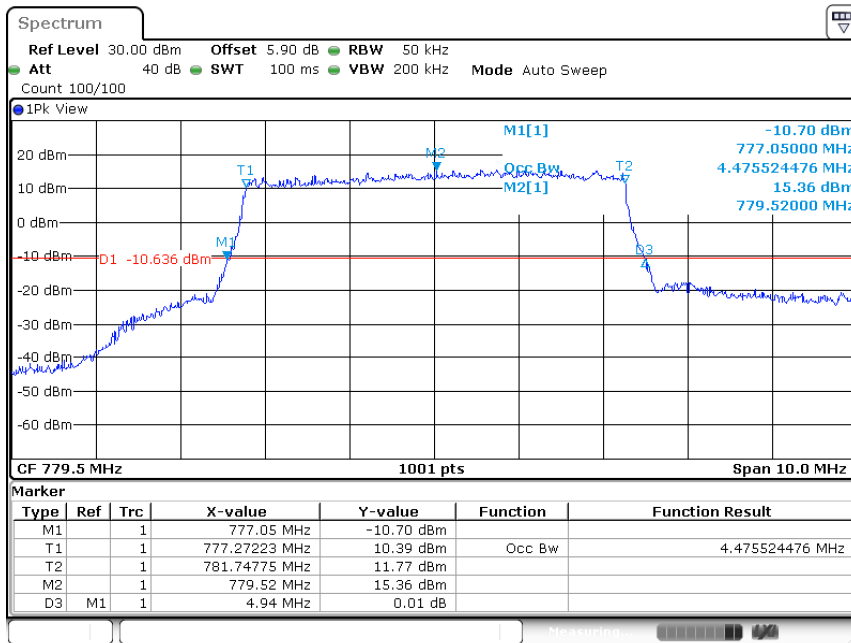


Date: 19.AUG.2020 08:52:57



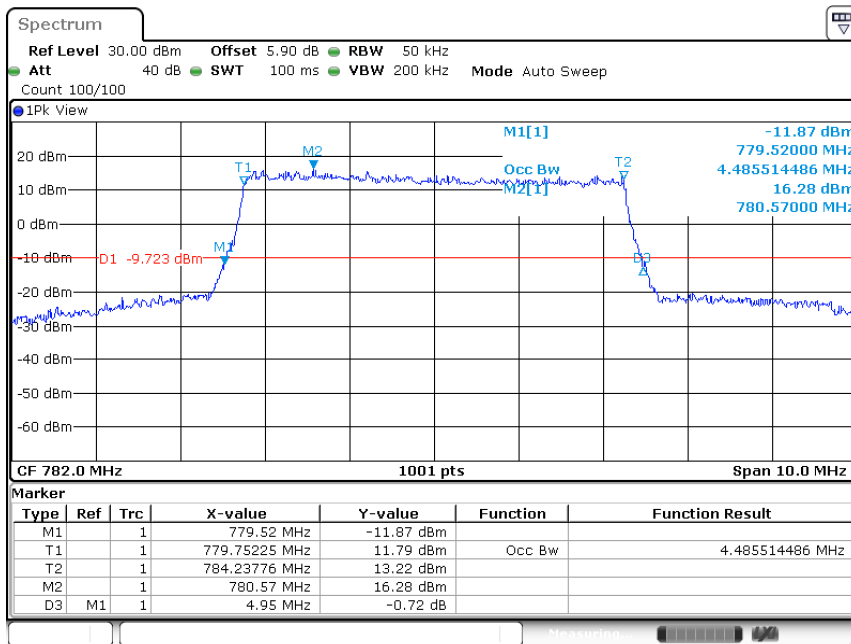
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Band13-5MHz-16QAM-23205-25RB#0-4.476



Date: 13.AUG.2020 09:04:54

Band13-5MHz-16QAM-23230-25RB#0-4.486

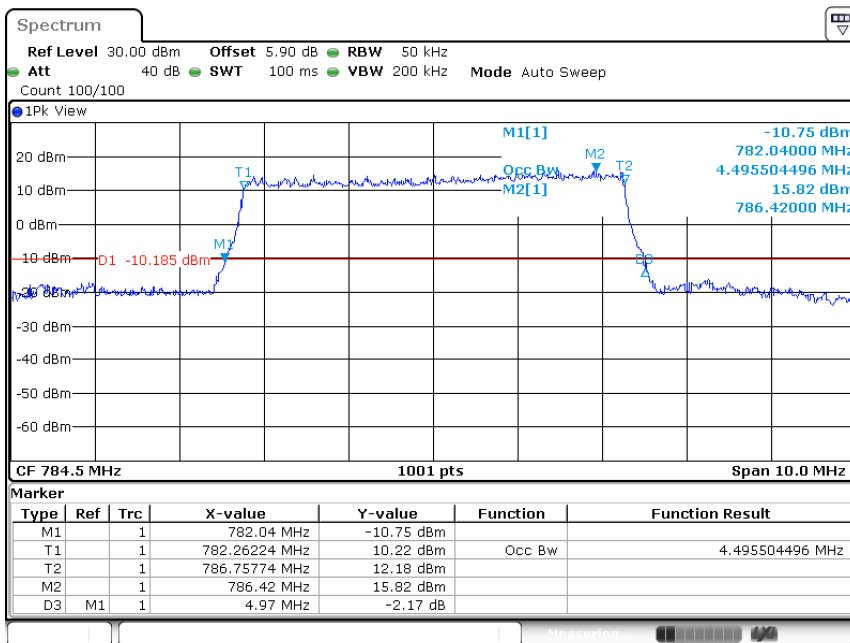


Date: 13.AUG.2020 09:05:27

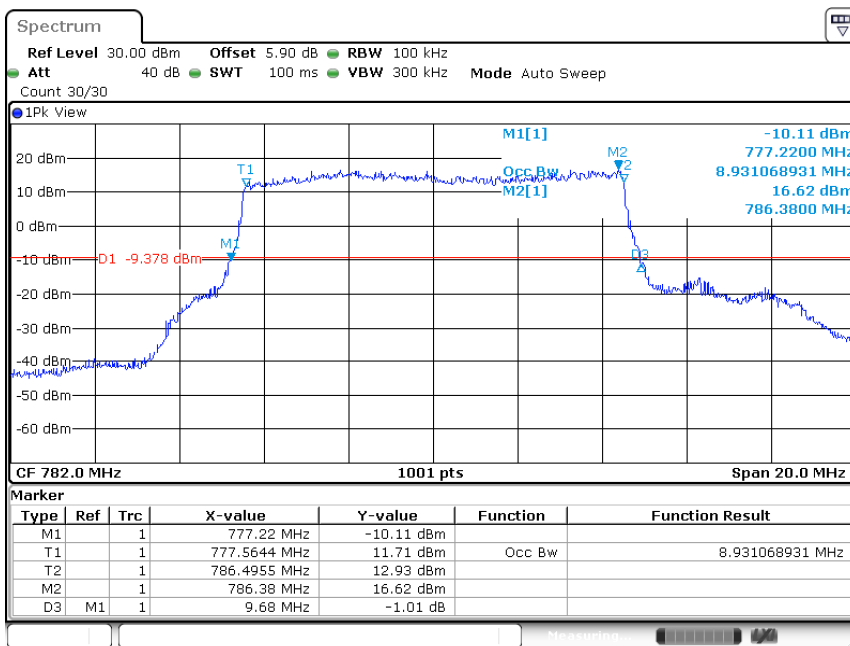


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Band13-5MHz-16QAM-23255-25RB#0-4.496



Band13-10MHz-QPSK-23230-50RB#0-8.931

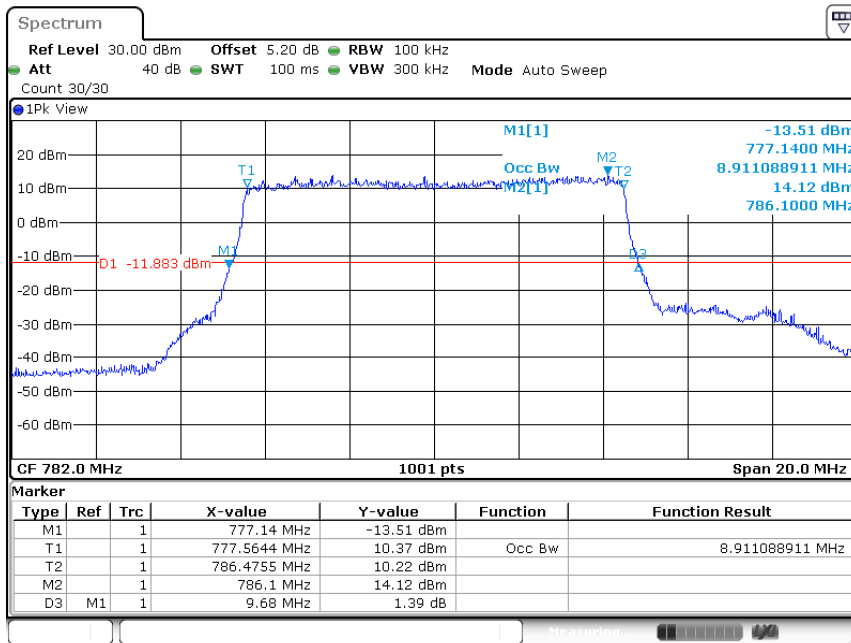


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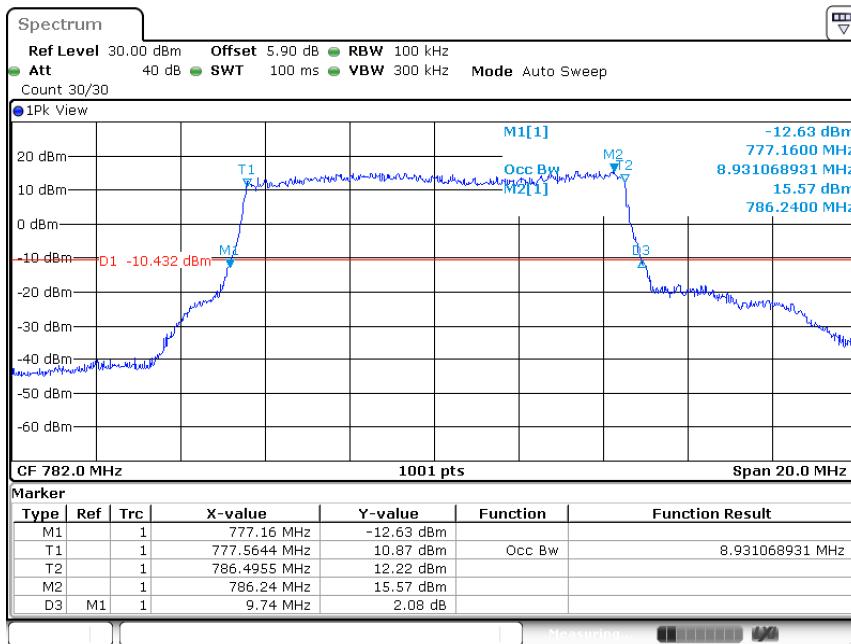
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band13-10MHz-64QAM-23230-50RB#0-8.911



Date: 19.AUG.2020 08:54:28

Band13-10MHz-16QAM-23230-50RB#0-8.931



Date: 13.AUG.2020 09:06:23



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5. Band Edge Compliance

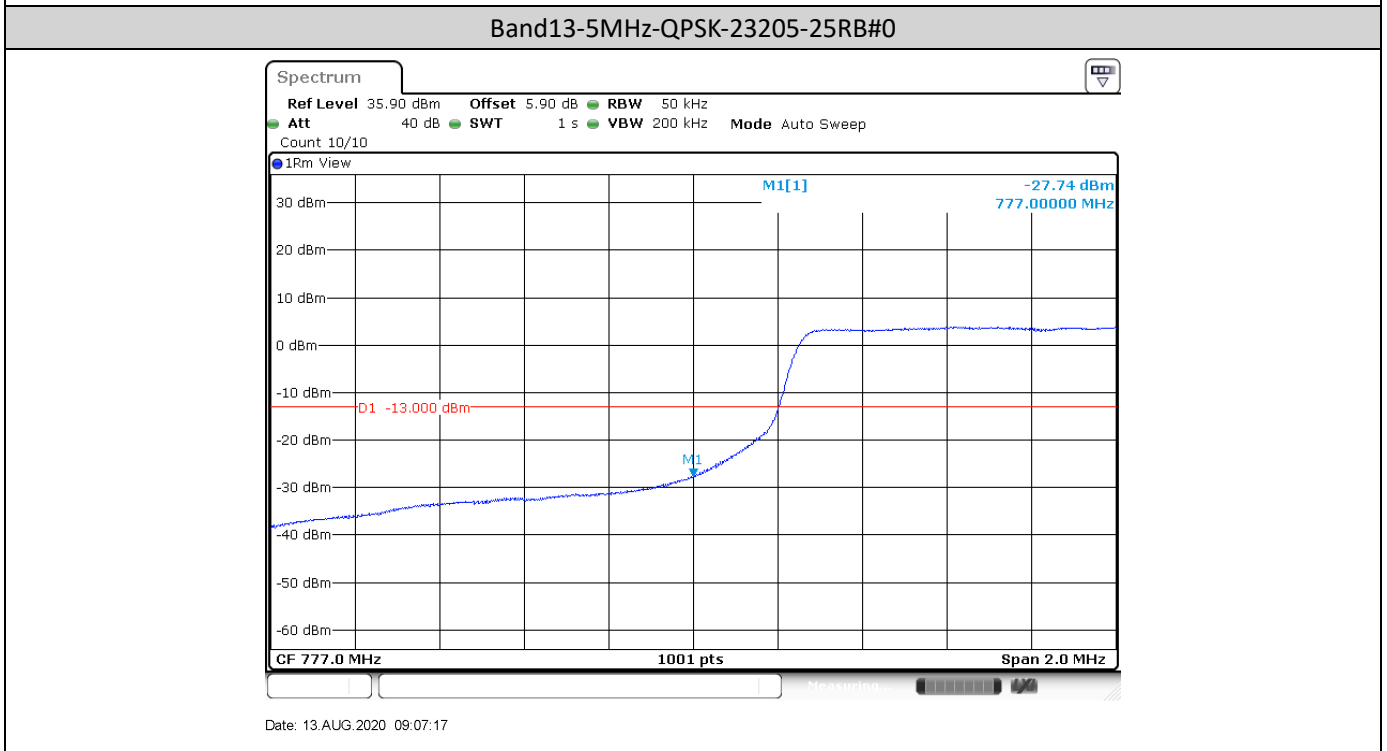
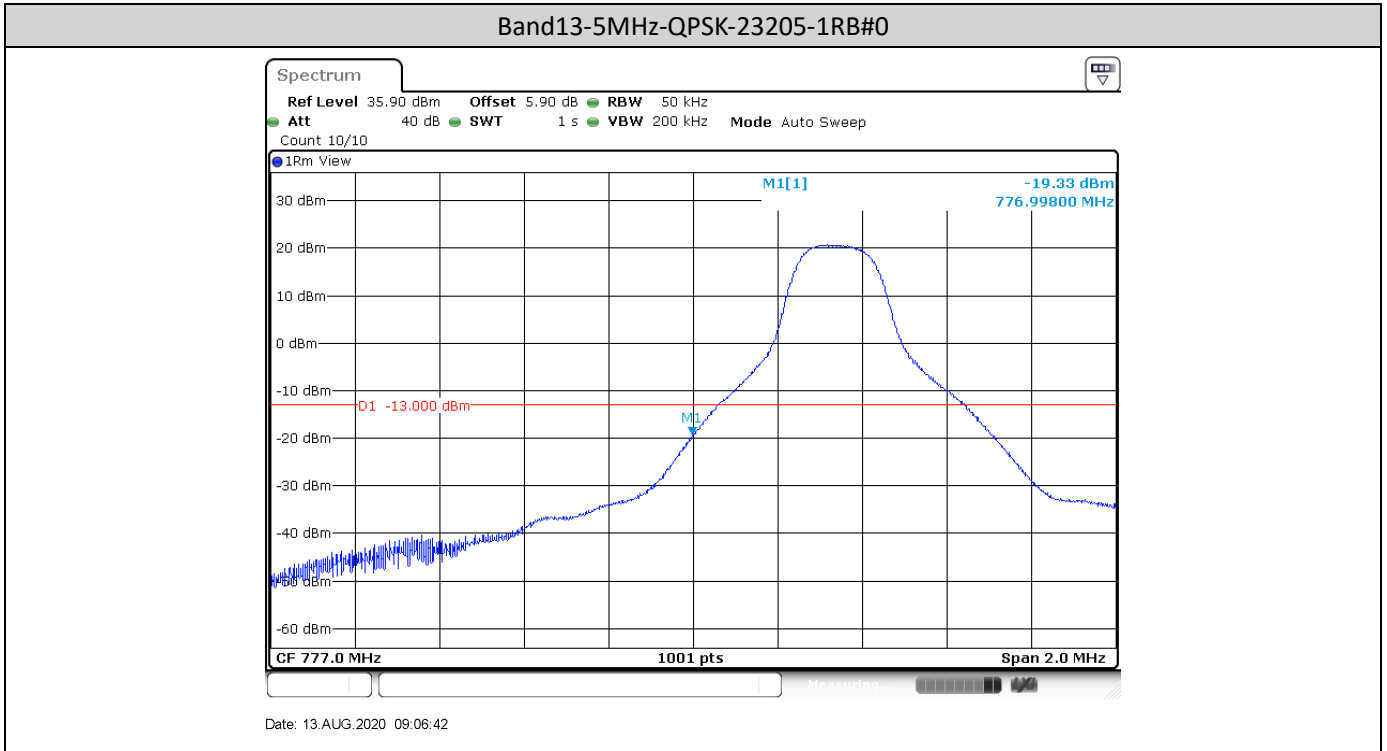
5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-19.33	PASS
Band13	5MHz	QPSK	23205	25RB#0	-27.74	PASS
Band13	5MHz	QPSK	23255	1RB#24	-20.02	PASS
Band13	5MHz	QPSK	23255	25RB#0	-24.89	PASS
Band13	5MHz	64QAM	23205	1RB#0	-22.36	PASS
Band13	5MHz	64QAM	23205	25RB#0	-31.60	PASS
Band13	5MHz	64QAM	23255	1RB#24	-22.22	PASS
Band13	5MHz	64QAM	23255	25RB#0	-29.64	PASS
Band13	5MHz	16QAM	23205	1RB#0	-20.31	PASS
Band13	5MHz	16QAM	23205	25RB#0	-28.26	PASS
Band13	5MHz	16QAM	23255	1RB#24	-20.60	PASS
Band13	5MHz	16QAM	23255	25RB#0	-25.38	PASS
Band13	10MHz	QPSK	23230_Left	1RB#0	-28.59	PASS
Band13	10MHz	QPSK	23230_Left	50RB#0	-31.86	PASS
Band13	10MHz	QPSK	23230_Right	1RB#49	-29.17	PASS
Band13	10MHz	QPSK	23230_Right	50RB#0	-26.43	PASS
Band13	10MHz	64QAM	23230_Left	1RB#0	-30.97	PASS
Band13	10MHz	64QAM	23230_Left	50RB#0	-34.34	PASS
Band13	10MHz	64QAM	23230_Right	1RB#49	-32.08	PASS
Band13	10MHz	64QAM	23230_Right	50RB#0	-31.63	PASS
Band13	10MHz	16QAM	23230_Left	1RB#0	-28.40	PASS
Band13	10MHz	16QAM	23230_Left	50RB#0	-32.92	PASS
Band13	10MHz	16QAM	23230_Right	1RB#49	-30.07	PASS
Band13	10MHz	16QAM	23230_Right	50RB#0	-27.42	PASS



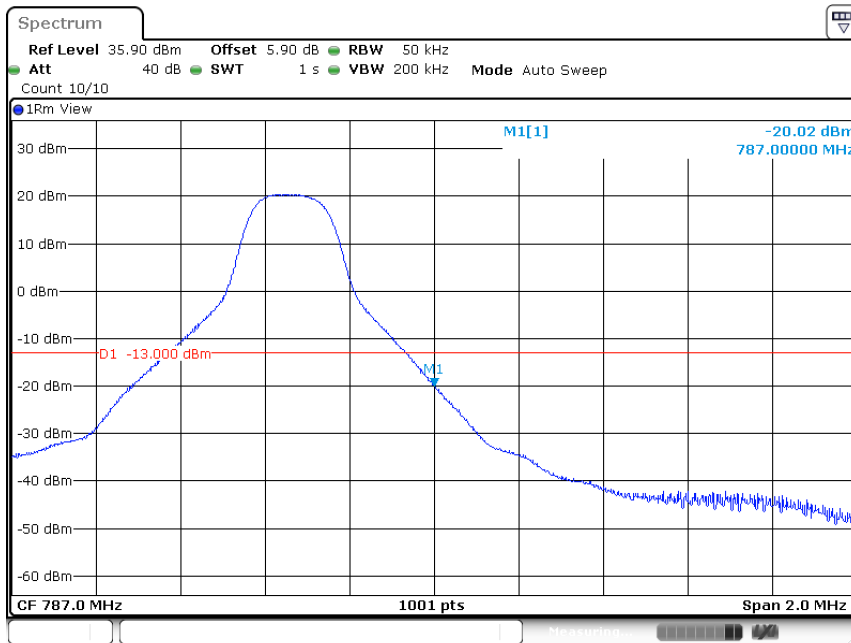
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5.2. Test Plots



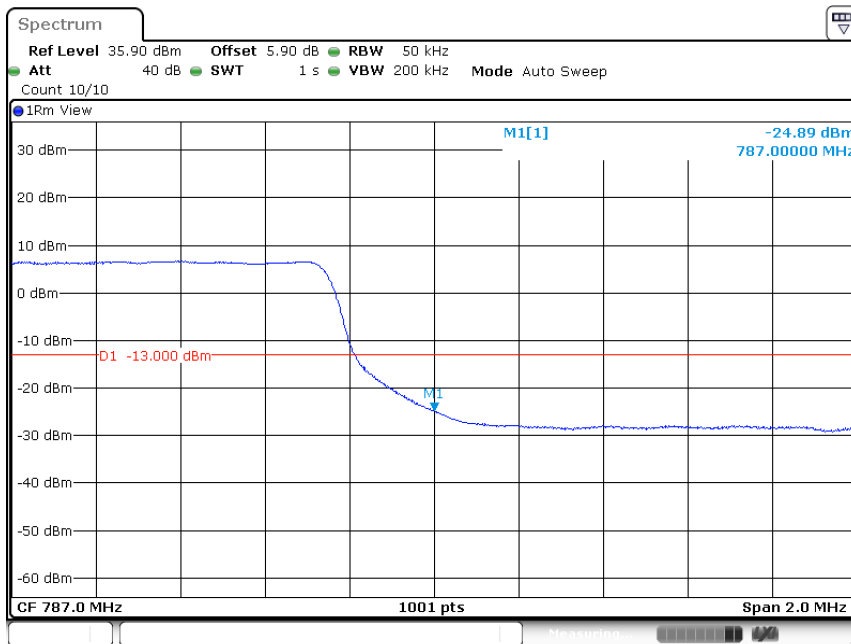
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Band13-5MHz-QPSK-23255-1RB#24



Date: 13.AUG.2020 09:07:53

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

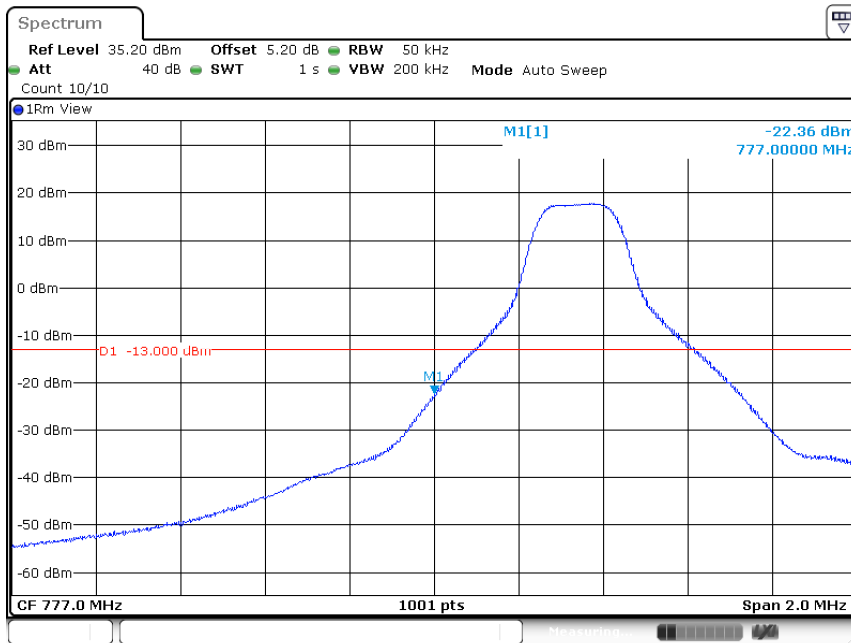


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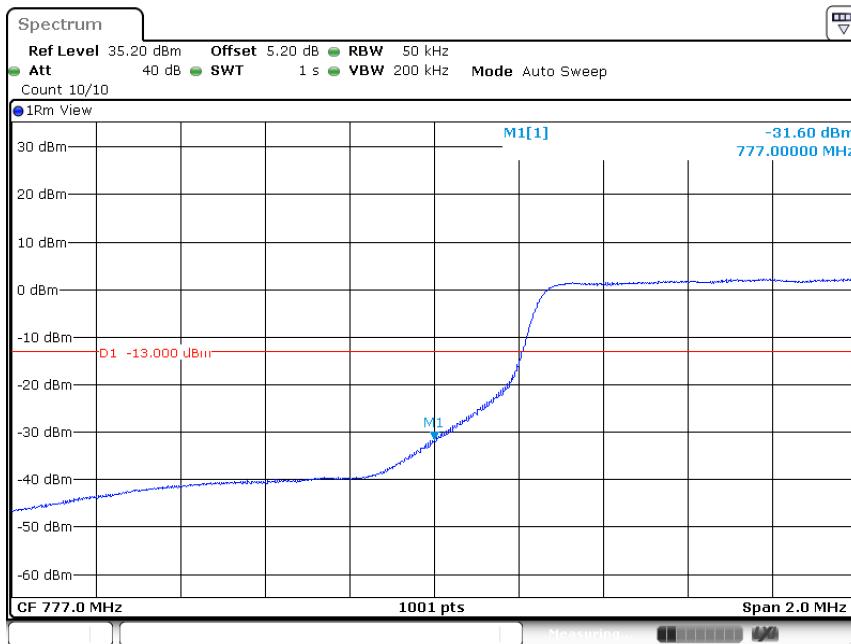
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Band13-5MHz-64QAM-23205-1RB#0



Date: 19.AUG.2020 08:54:55

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

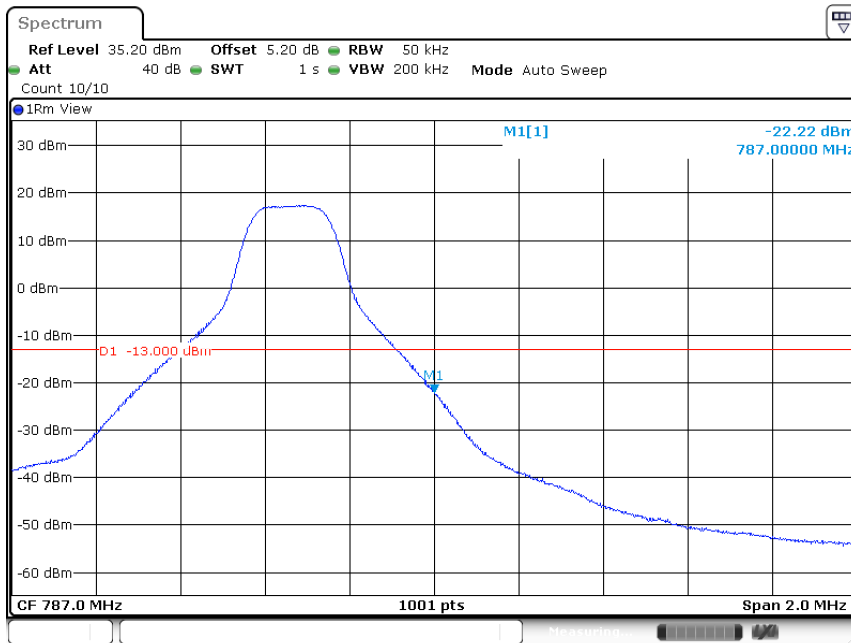


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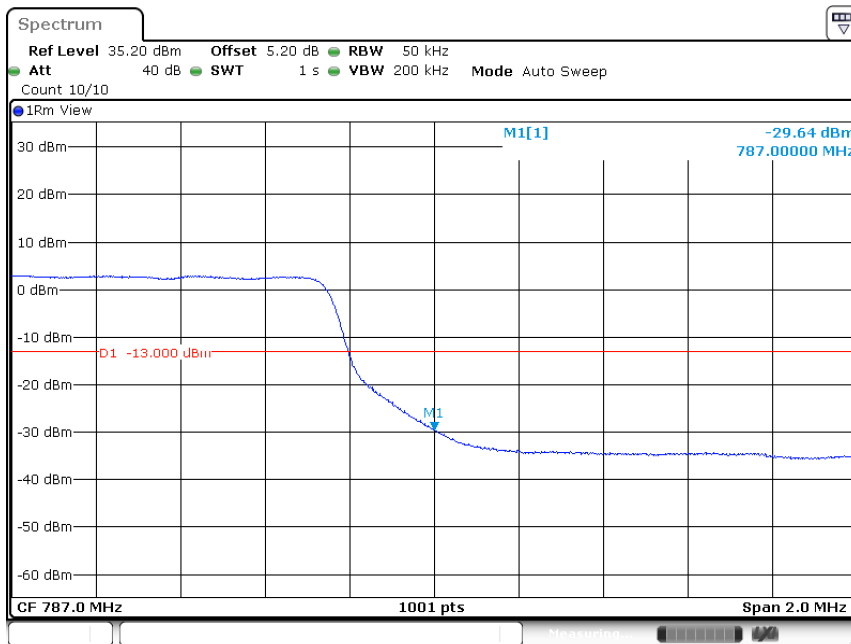
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Band13-5MHz-64QAM-23255-1RB#24



Date: 19.AUG.2020 08:55:42

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

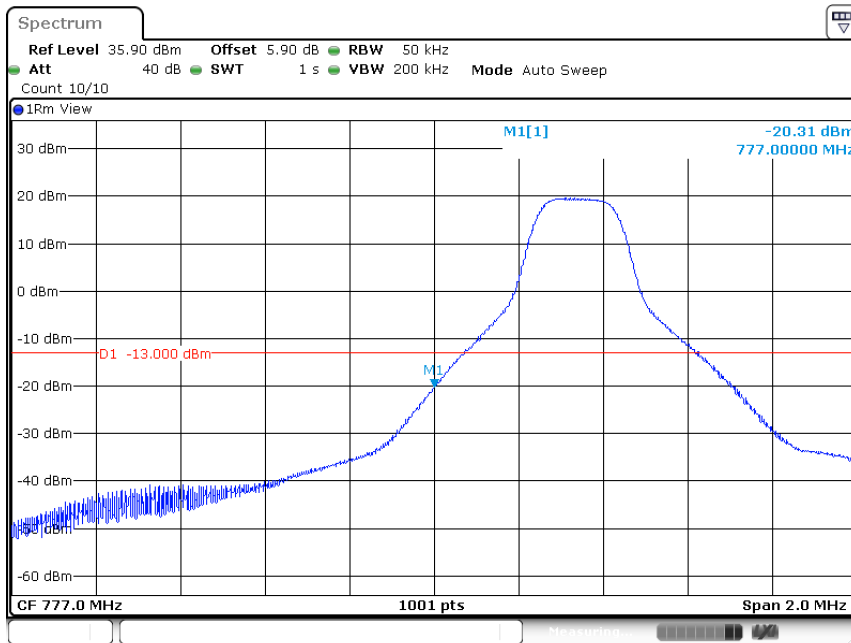


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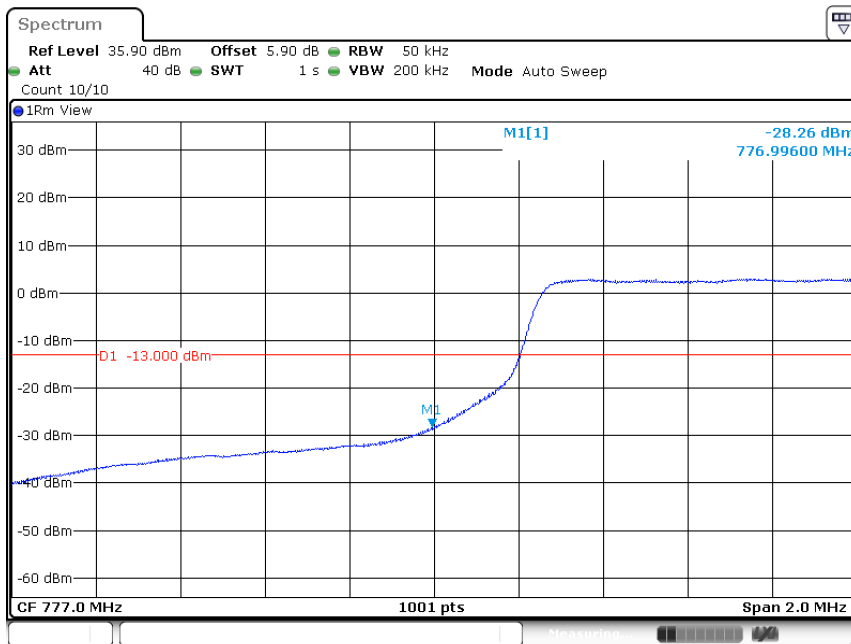
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Band13-5MHz-16QAM-23205-1RB#0



Date: 13.AUG.2020 09:07:00

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

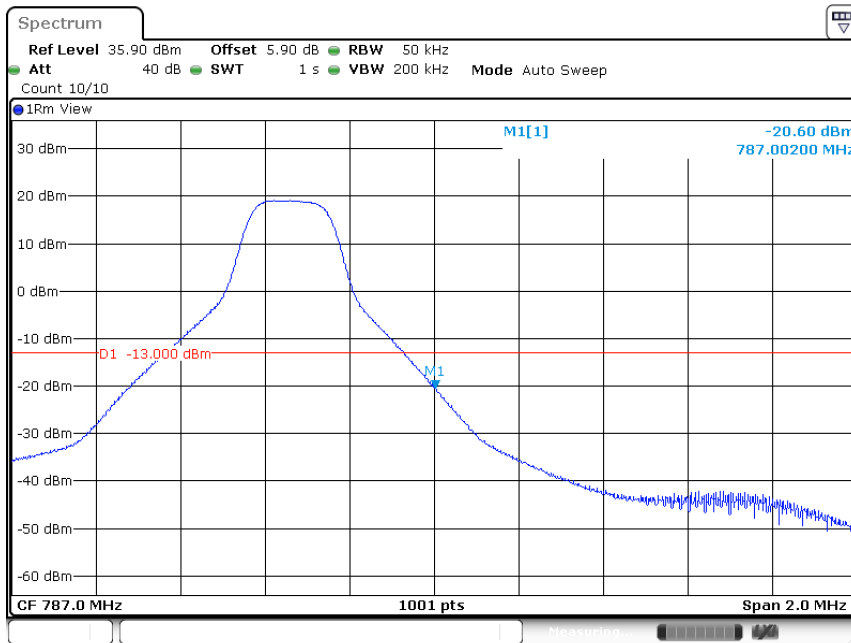


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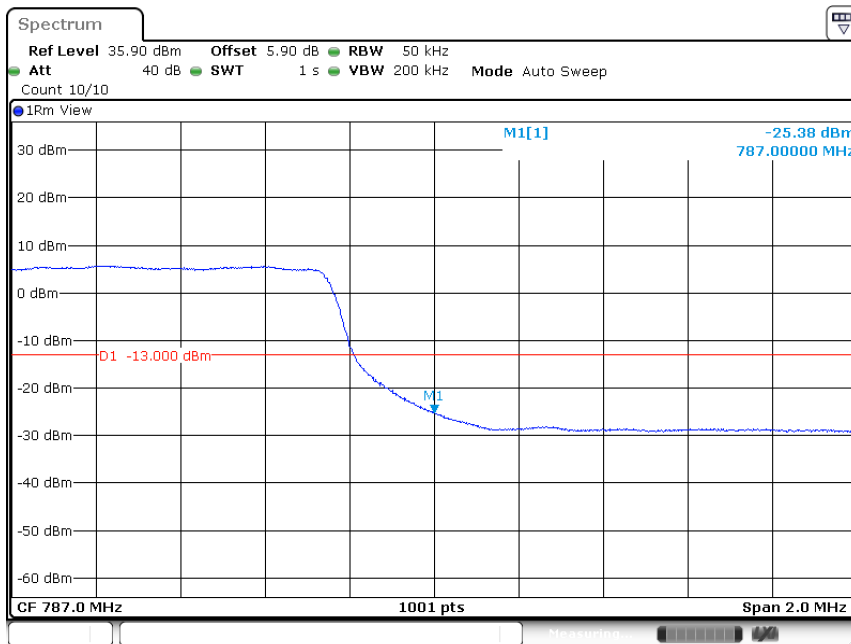
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Band13-5MHz-16QAM-23255-1RB#24



Date: 13.AUG.2020 09:08:10

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



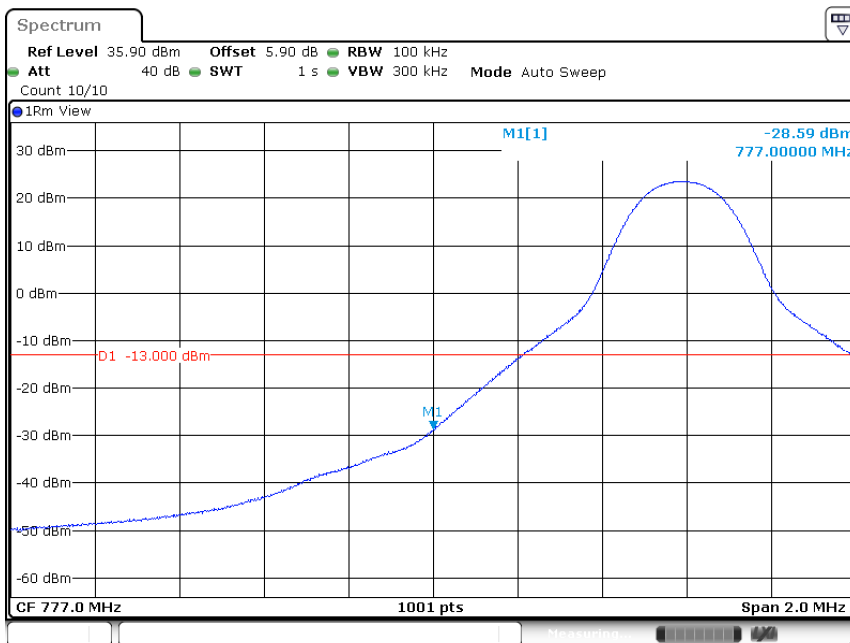
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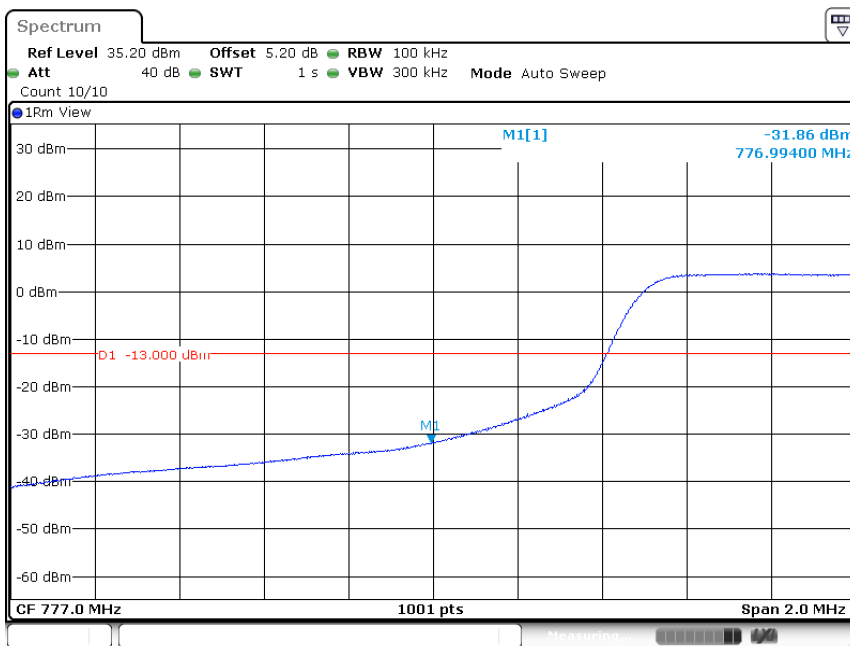
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Band13-10MHz-QPSK-23230_Left-1RB#0



Date: 13.AUG.2020 09:09:05

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

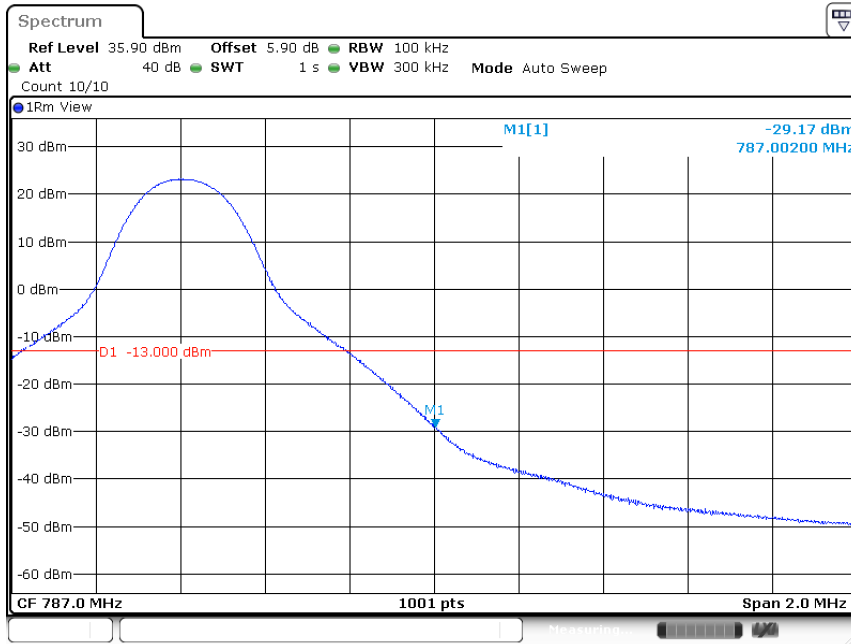


Date: 28.AUG.2020 10:51:45



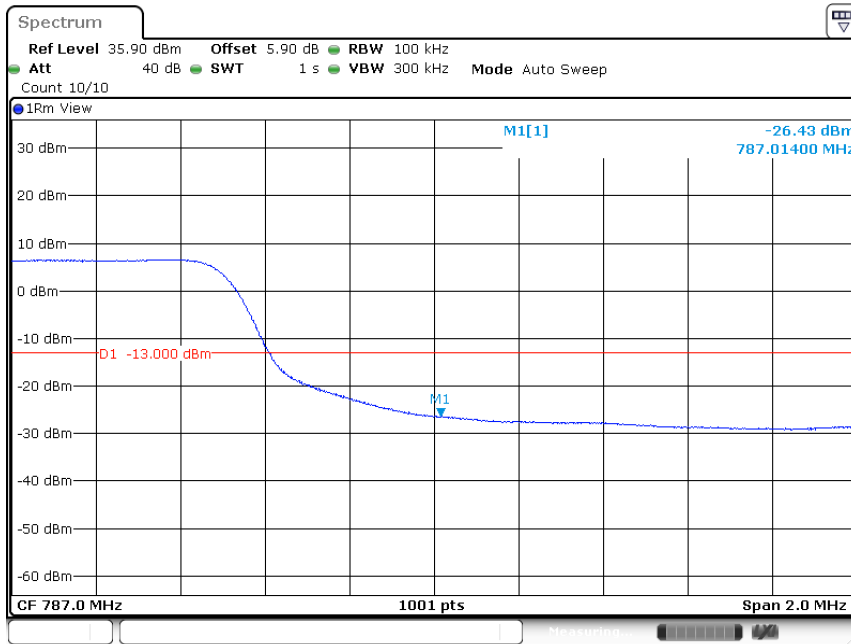
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Band13-10MHz-QPSK-23230_Right-1RB#49



Date: 13.AUG.2020 09:09:41

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

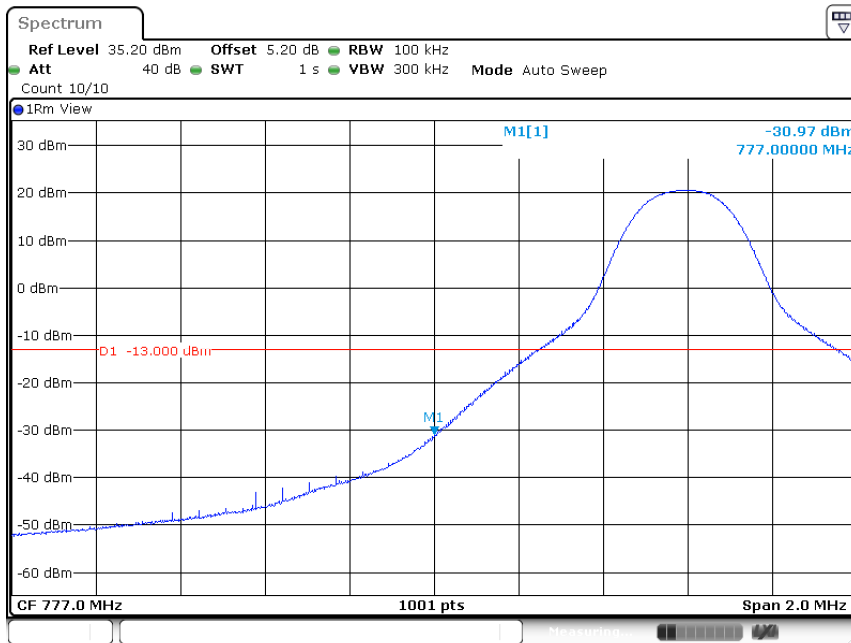


Date: 13.AUG.2020 09:10:16



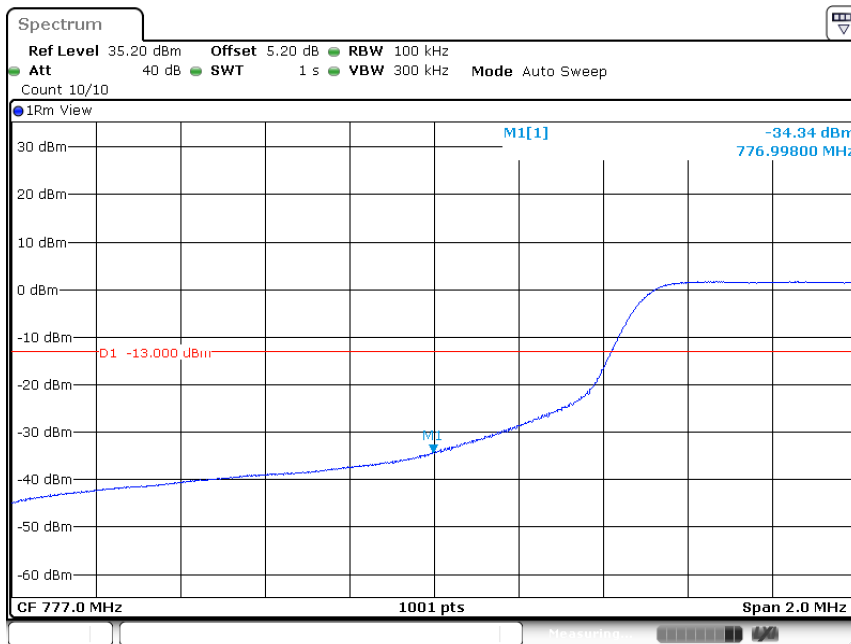
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Band13-10MHz-64QAM-23230_Left-1RB#0



Date: 19.AUG.2020 08:56:30

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

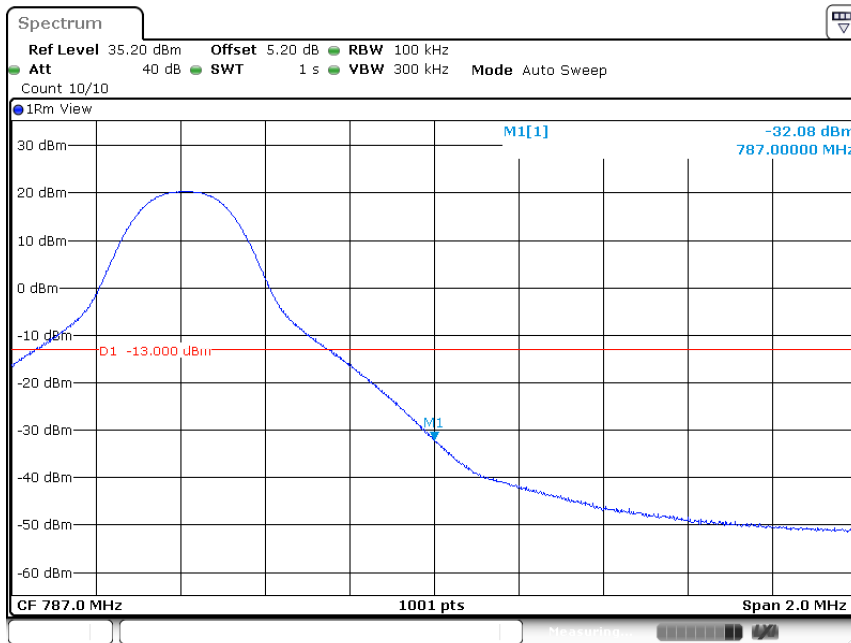


Date: 28.AUG.2020 10:50:38



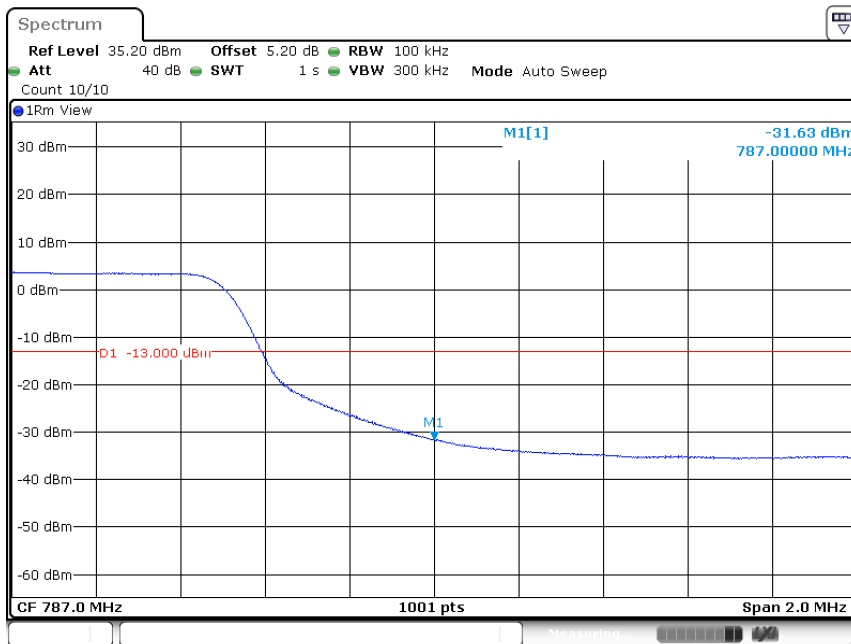
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Band13-10MHz-64QAM-23230_Right-1RB#49



Date: 19.AUG.2020 08:56:55

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

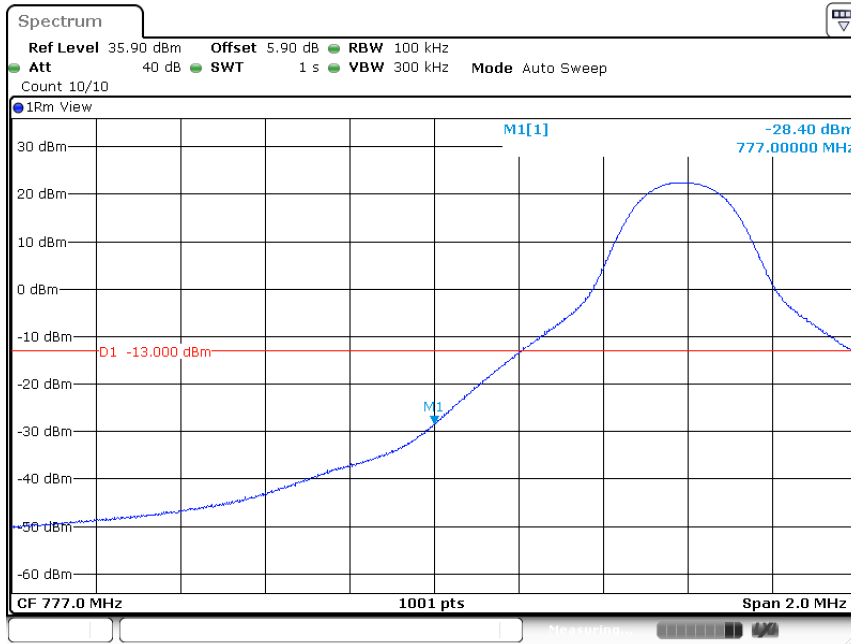


Date: 19.AUG.2020 08:57:16



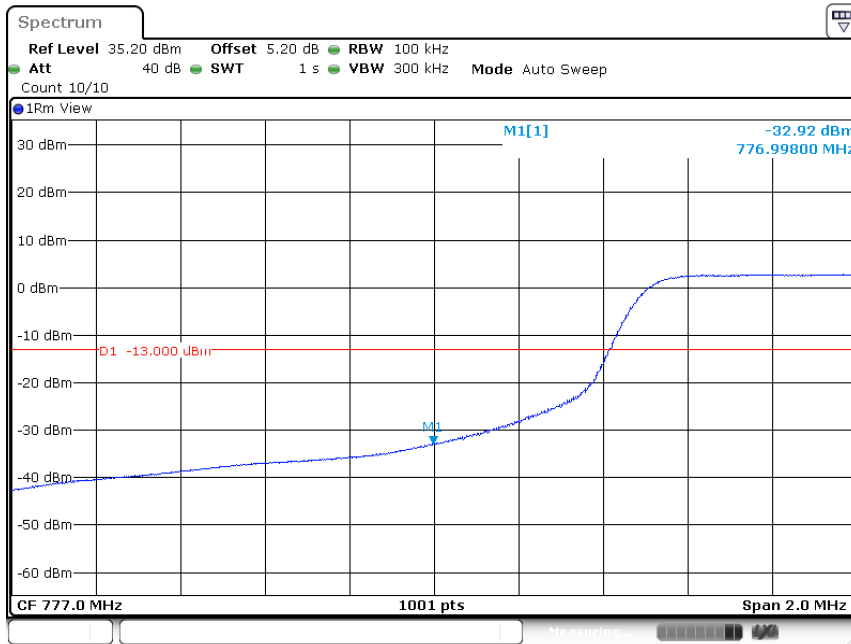
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Band13-10MHz-16QAM-23230_Left-1RB#0



Date: 13.AUG.2020 09:09:23

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



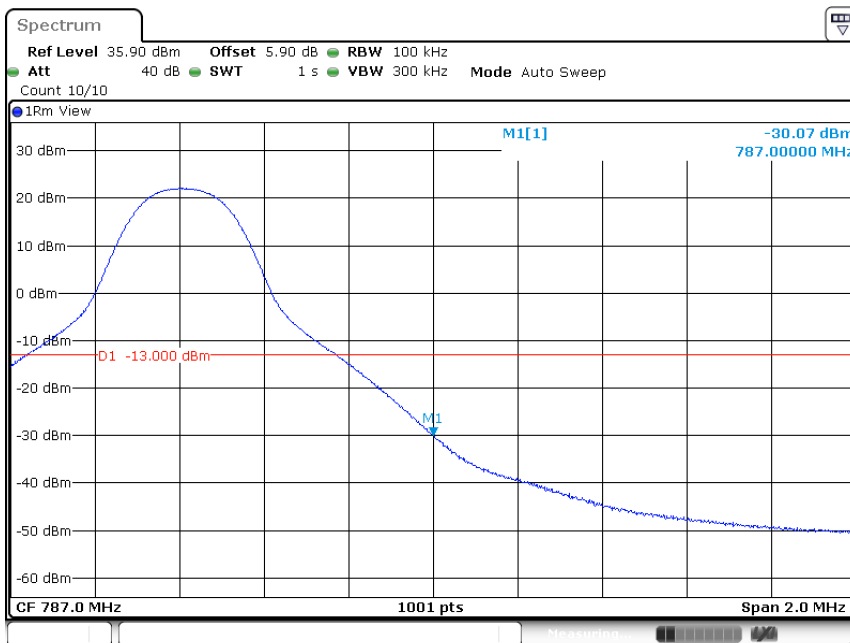
Date: 28.AUG.2020 10:52:06



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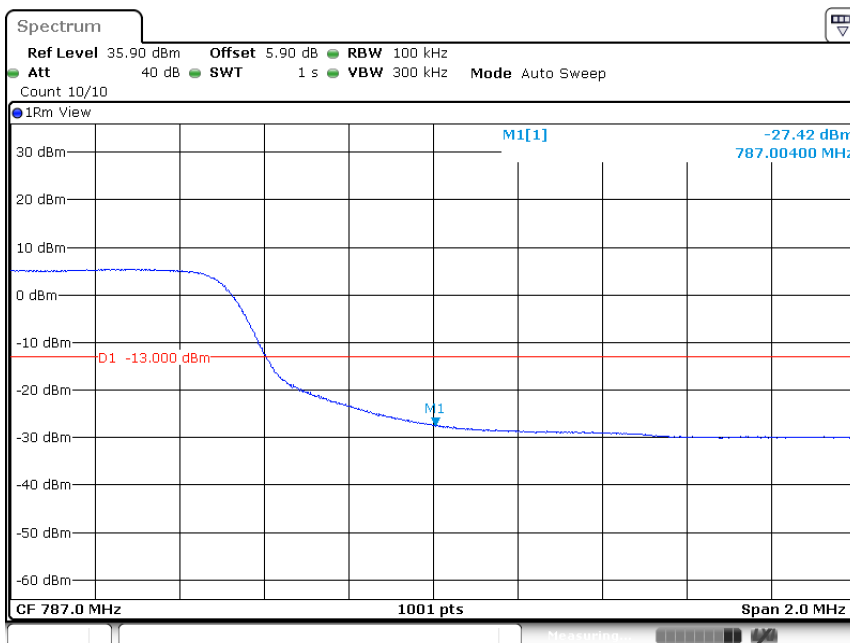
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Band13-10MHz-16QAM-23230_Right-1RB#49



Date: 13.AUG.2020 09:09:58

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



Date: 13.AUG.2020 09:10:33



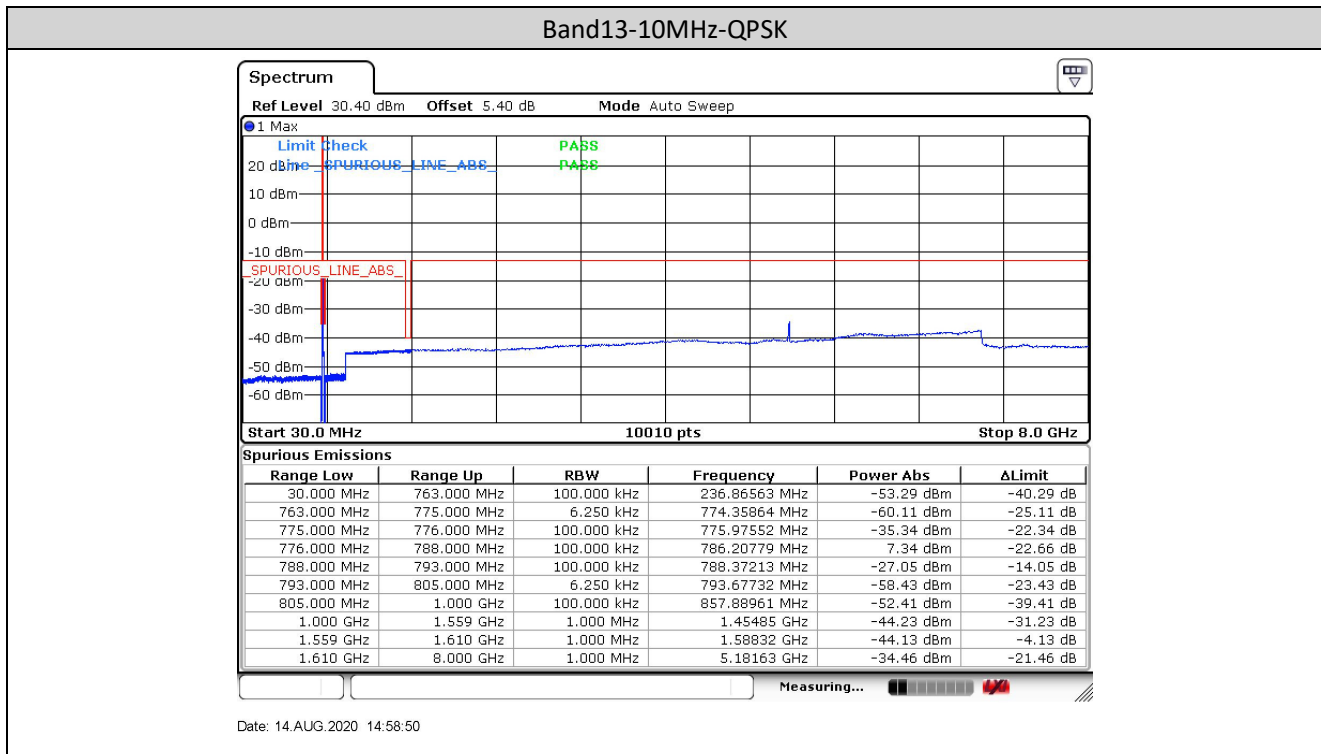
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6. Spurious Emission at Antenna Terminal

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.

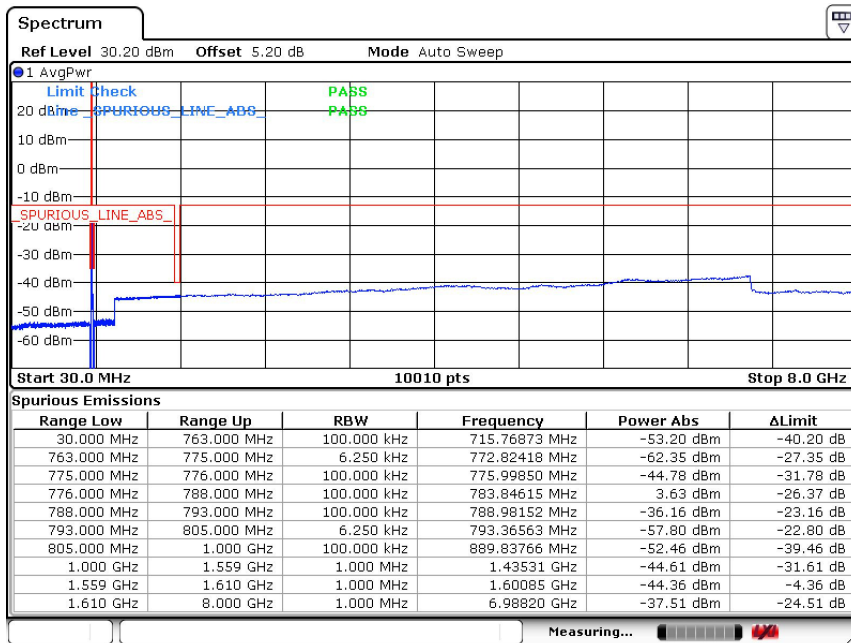
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



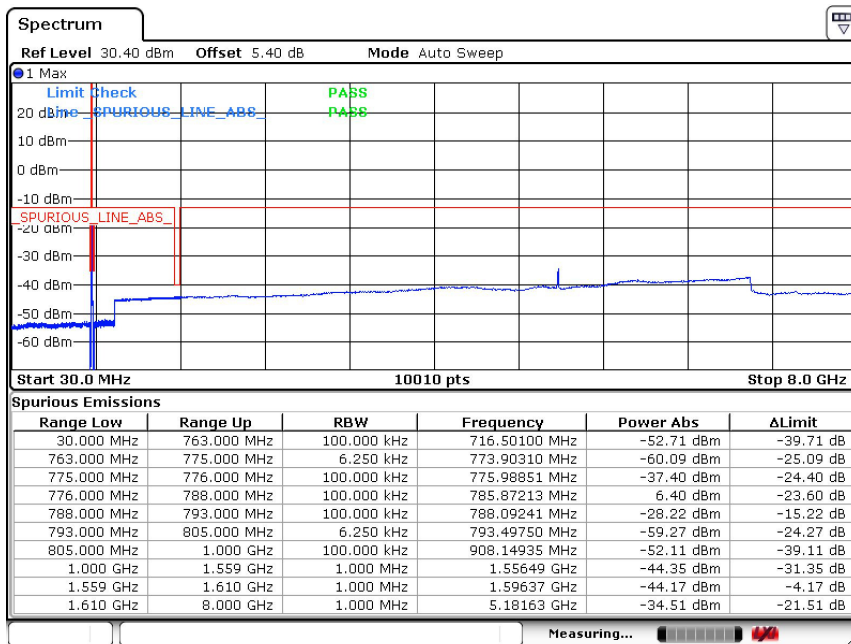
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Band13-10MHz-64QAM



Date: 26.AUG.2020 10:59:31

Band13-10MHz-16QAM



Date: 14.AUG.2020 14:59:15



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.1884	-69.92	-13.00	56.92	Vertical
119.6325	-65.77	-13.00	52.77	Vertical
1554.9110	-58.72	-13.00	45.72	Vertical
1600.1200	-64.74	-40.00	24.74	Vertical
2333.0666	-50.66	-13.00	37.66	Vertical
7456.0982	-55.50	-13.00	42.50	Vertical
44.2597	-64.31	-13.00	51.31	Horizontal
247.1939	-67.96	-13.00	54.96	Horizontal
1555.3111	-50.66	-13.00	37.66	Horizontal
1599.7199	-64.12	-40.00	24.12	Horizontal
2333.0666	-44.78	-13.00	31.78	Horizontal
7489.4196	-55.94	-13.00	42.94	Horizontal

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 [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-1.00	-0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	1.50	0.001918	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	3.30	0.004220	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	-0.50	-0.000639	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VH	NT	1.90	0.002430	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	0.20	0.000256	±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	-10	2.50	0.003197	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.80	0.001023	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.20	0.001535	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-1.40	-0.001790	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.40	-0.001790	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	1.10	0.001407	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-10	0.80	0.001023	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	-1.70	-0.002174	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	-2.60	-0.003325	±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	40	0.30	0.000384	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	0.20	0.000256	±2.5	PASS



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Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-1.50	-0.001918	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	1.10	0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	0.90	0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-1.50	-0.001918	±2.5	PASS



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