

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	23.48	23.27	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.59	23.38	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.51	23.3	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.44	22.23	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.49	22.28	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.31	22.1	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.38	22.17	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.54	23.33	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.42	23.21	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.53	23.32	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.44	22.23	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.49	22.28	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.47	22.26	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.46	22.25	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.54	23.33	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.50	23.29	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.47	23.26	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.35	22.14	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.37	22.16	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.41	22.2	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.39	22.18	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.48	21.27	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.50	21.29	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.62	21.41	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.29	20.08	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.44	20.23	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.32	20.11	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.35	20.14	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.58	21.37	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.59	21.38	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.53	21.32	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.36	20.15	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.42	20.21	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.46	20.25	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.44	20.23	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.56	21.35	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.45	21.24	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.52	21.31	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.35	20.14	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.31	20.1	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.32	20.11	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.35	20.14	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.81	18.6	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	18.83	18.62	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.69	18.48	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#13	18.53	18.32	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#0	18.47	18.26	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#6	18.55	18.34	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.56	18.35	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.81	18.6	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.72	18.51	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.67	18.46	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#13	18.59	18.38	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#0	18.59	18.38	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#6	18.54	18.33	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.60	18.39	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.68	18.47	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.76	18.55	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.81	18.6	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#0	18.50	18.29	34.77	PASS



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Band13	5MHz	256QAM	23255	12RB#6	18.52	18.31	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#13	18.49	18.28	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	18.56	18.35	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.65	22.44	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.67	22.46	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.56	22.35	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.31	21.1	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.45	21.24	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.43	21.22	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.39	21.18	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.51	22.3	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.63	22.42	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.63	22.42	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.46	21.25	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.45	21.24	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.44	21.23	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.47	21.26	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.66	22.45	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.68	22.47	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.61	22.4	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.36	21.15	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.40	21.19	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.37	21.16	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.39	21.18	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.40	23.19	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.54	23.33	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.49	23.28	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.43	22.22	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.49	22.28	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.35	22.14	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.45	22.24	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.49	21.28	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.54	21.33	34.77	PASS



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Band13	10MHz	64QAM	23230	1RB#0	21.63	21.42	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.45	20.24	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.36	20.15	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.40	20.19	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.38	20.17	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.71	18.5	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.78	18.57	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	18.80	18.59	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#0	18.55	18.34	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#12	18.61	18.4	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#25	18.63	18.42	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	18.58	18.37	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.45	22.24	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.65	22.44	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.73	22.52	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.44	21.23	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.37	21.16	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.42	21.21	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.39	21.18	34.77	PASS

Remark:

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

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

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

The conducted Power is measured by Base Station Simulator



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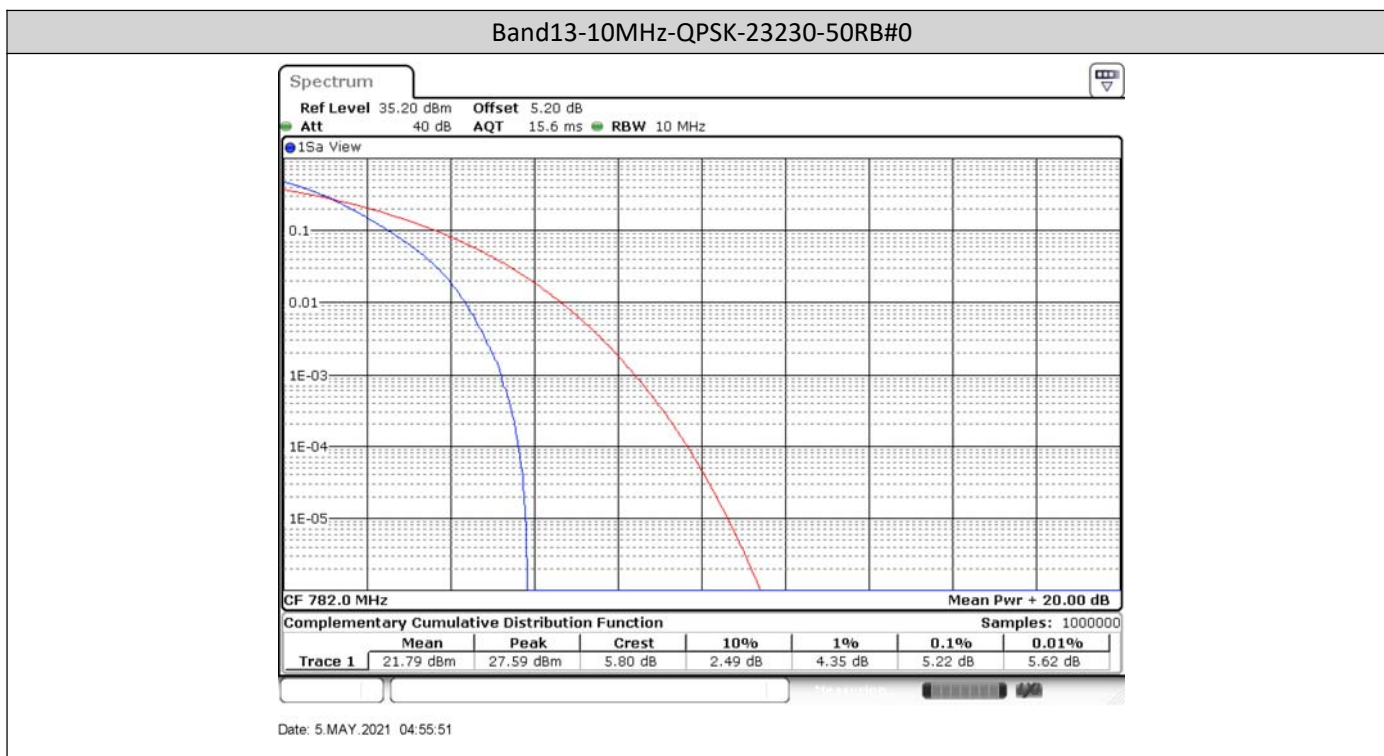


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.22	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.20	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	5.91	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.91	13	PASS

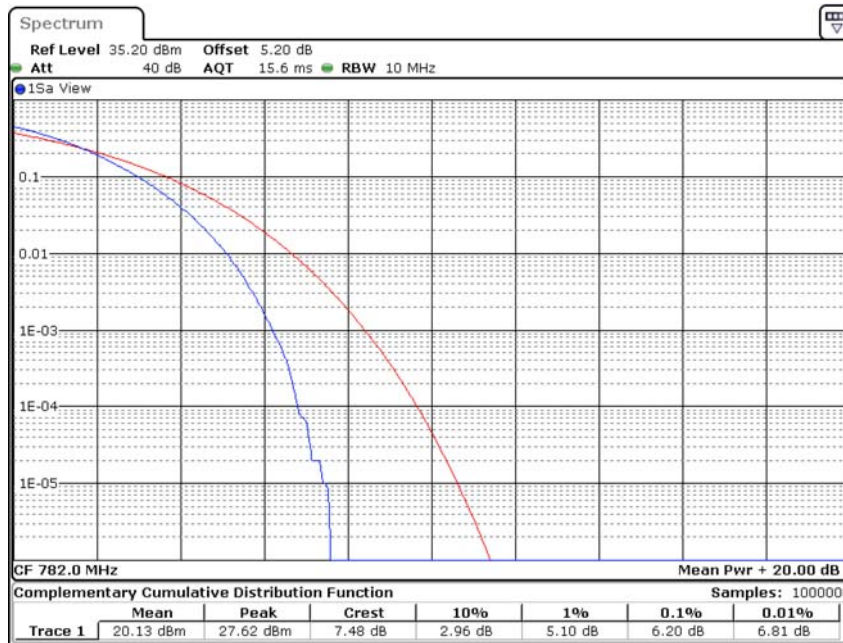
2.2. Test Plots



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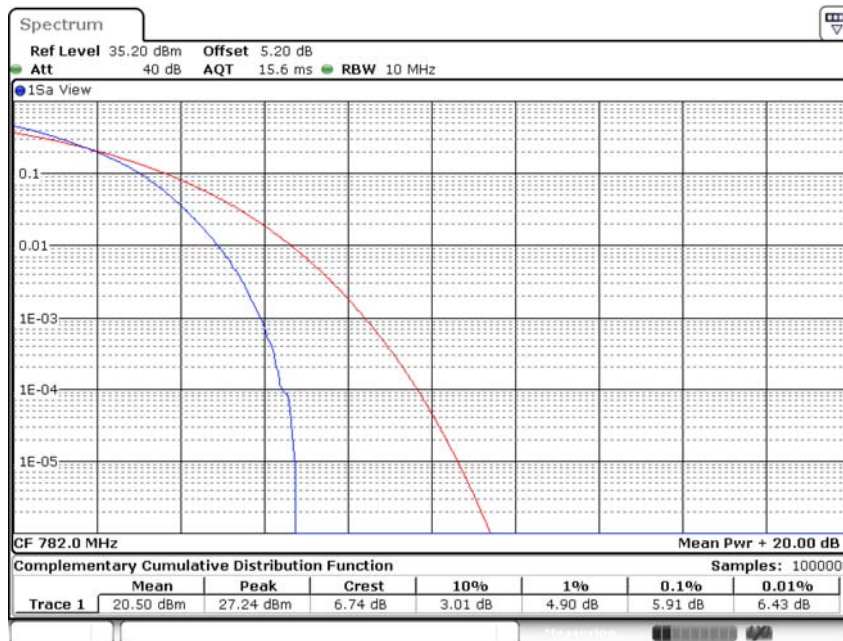
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Band13-10MHz-64QAM-23230-50RB#0



Date: 17.MAY.2021 02:00:30

Band13-10MHz-256QAM-23230-50RB#0

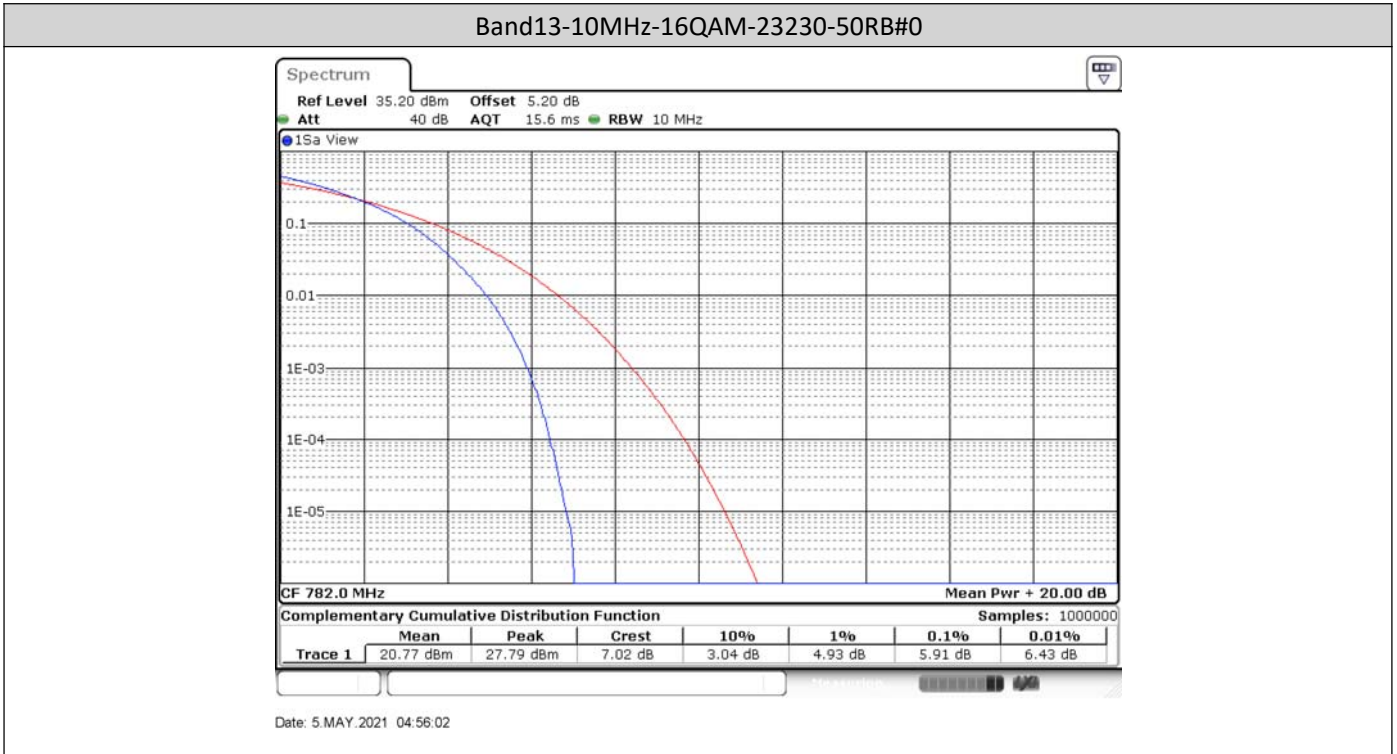


Date: 7.MAY.2021 03:23:51



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



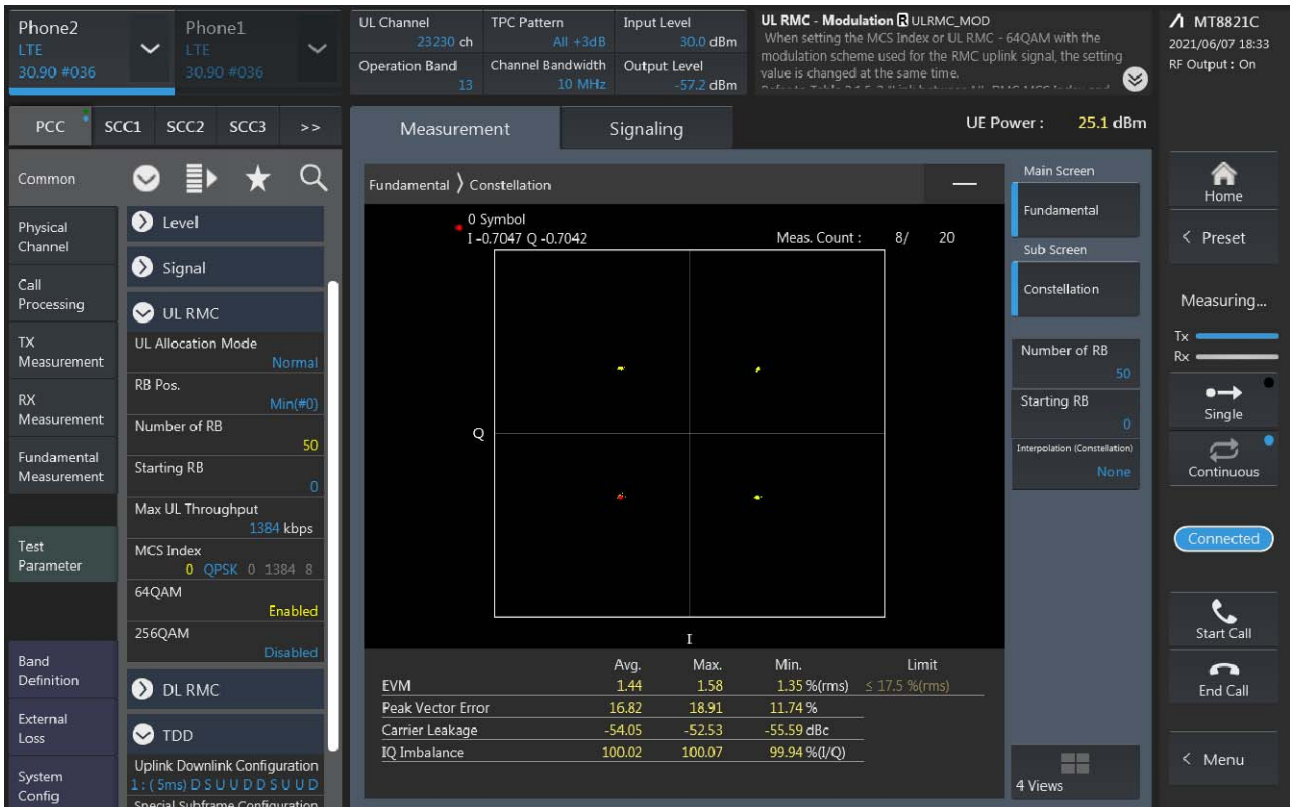
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



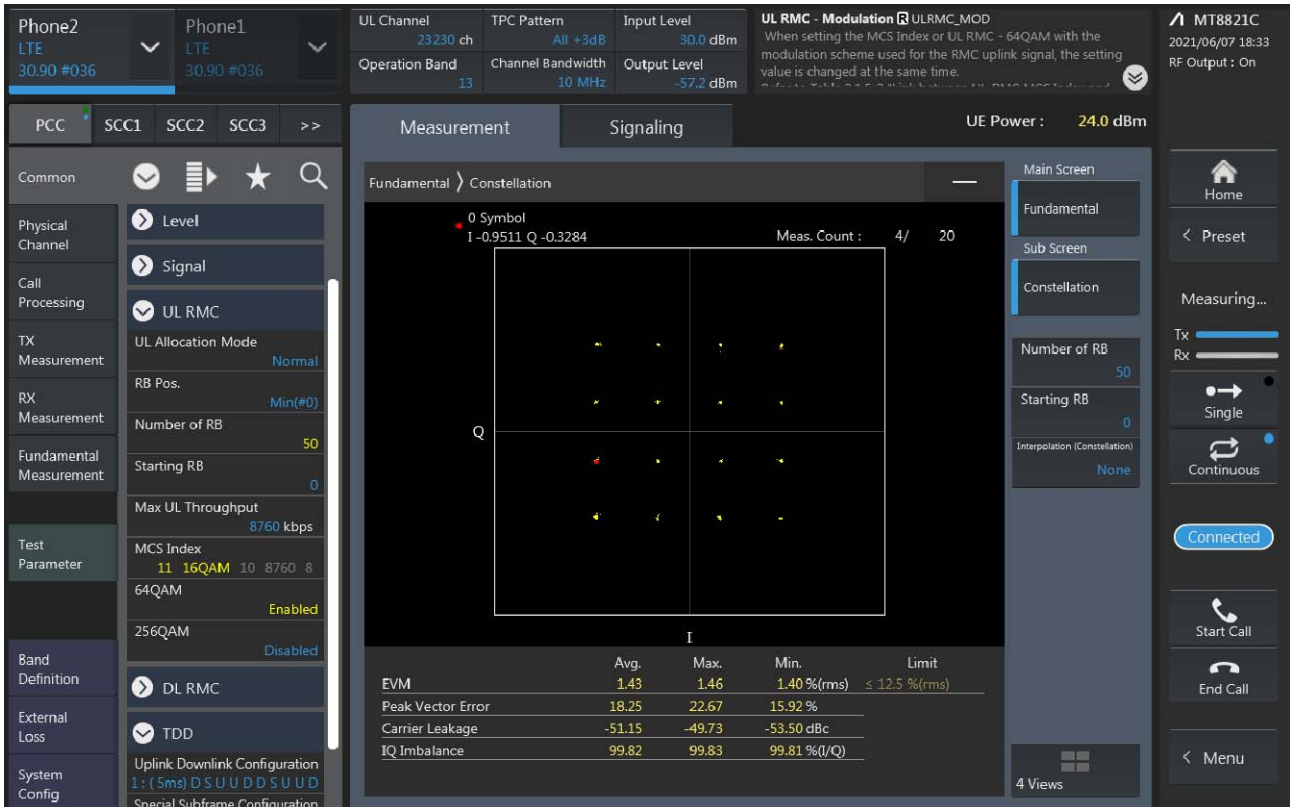
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



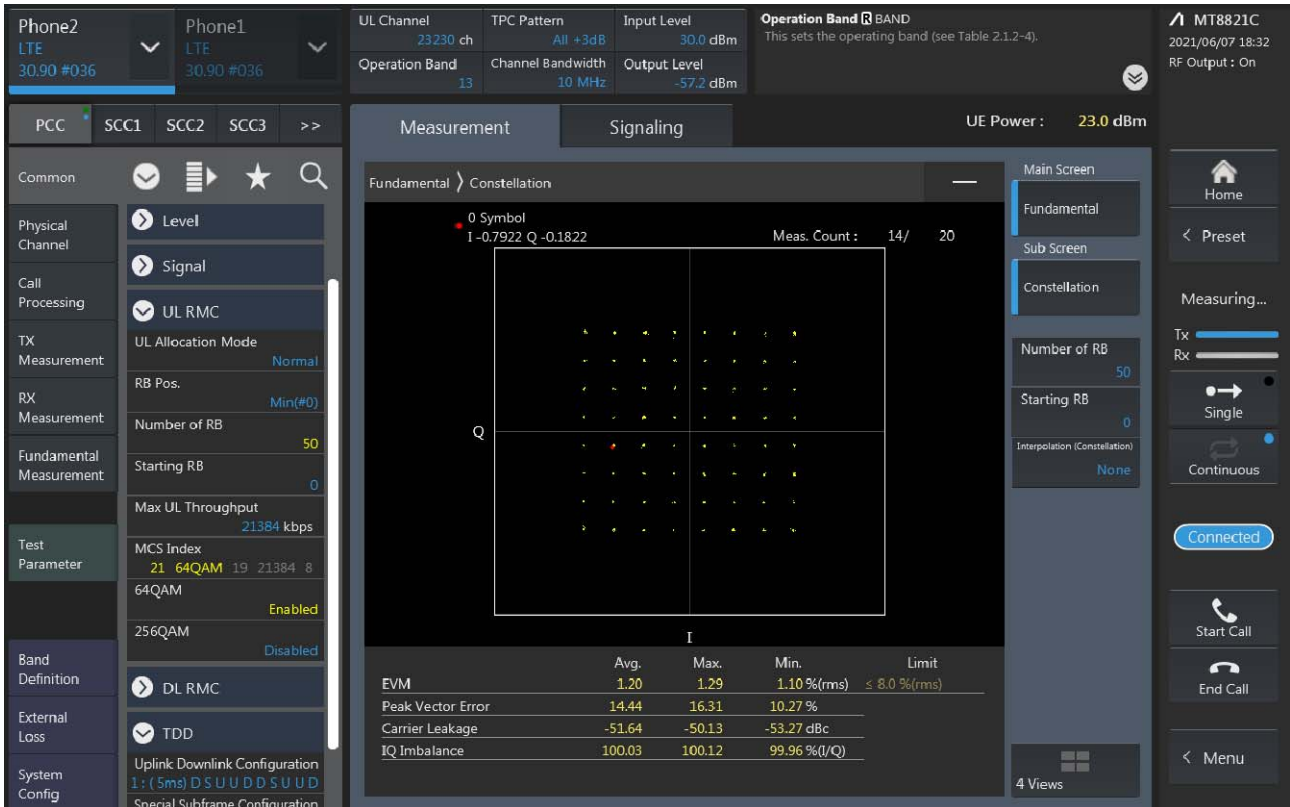
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3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH

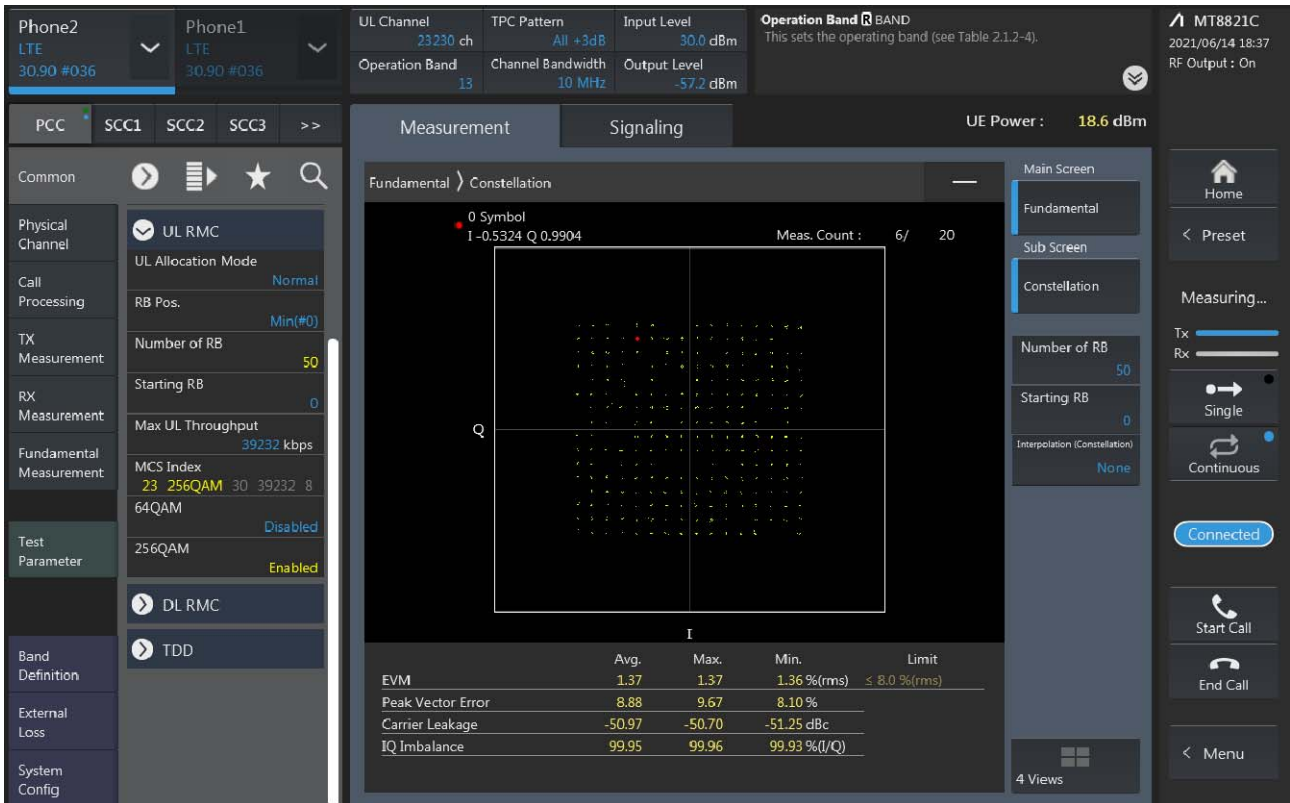


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3.4. Test Mode = LTE /TM4 10MHz

3.4.1. 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	4.850	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.880	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.466	4.850	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.840	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.850	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.850	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.486	5.900	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.476	4.920	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.476	4.880	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.880	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	4.910	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.486	4.940	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.640	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.560	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.931	9.600	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.660	PASS

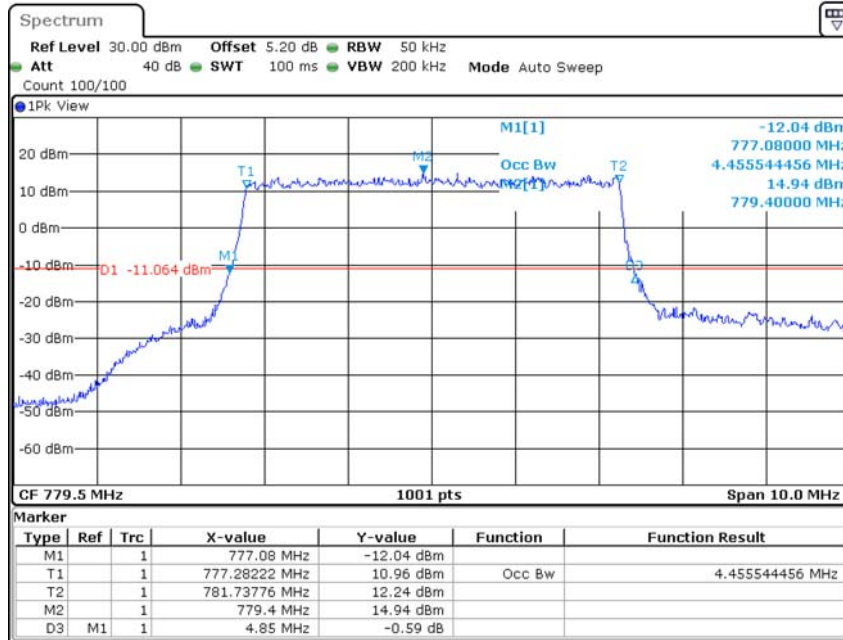


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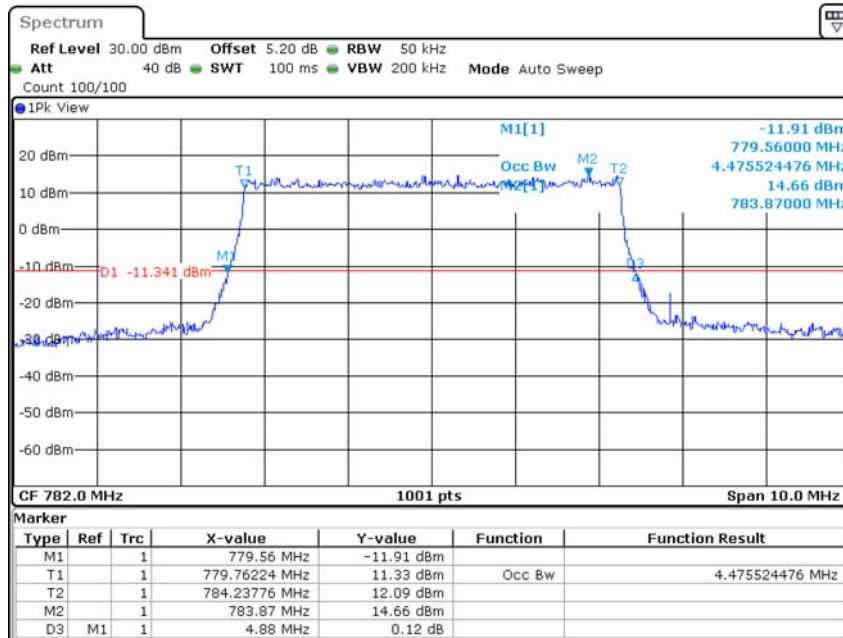
4.2. Test Plots

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



Date: 17.MAY.2021 00:56:33

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

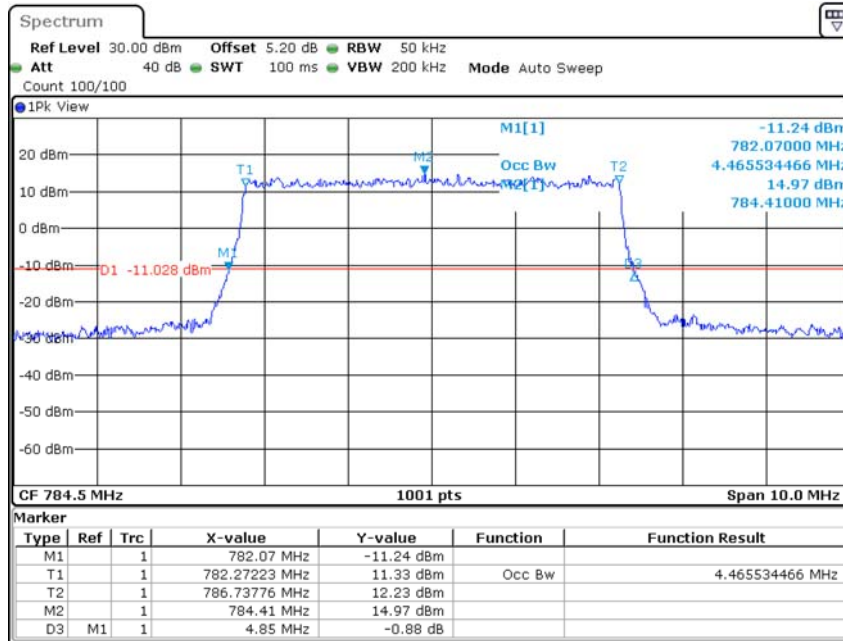


Date: 17.MAY.2021 00:57:12



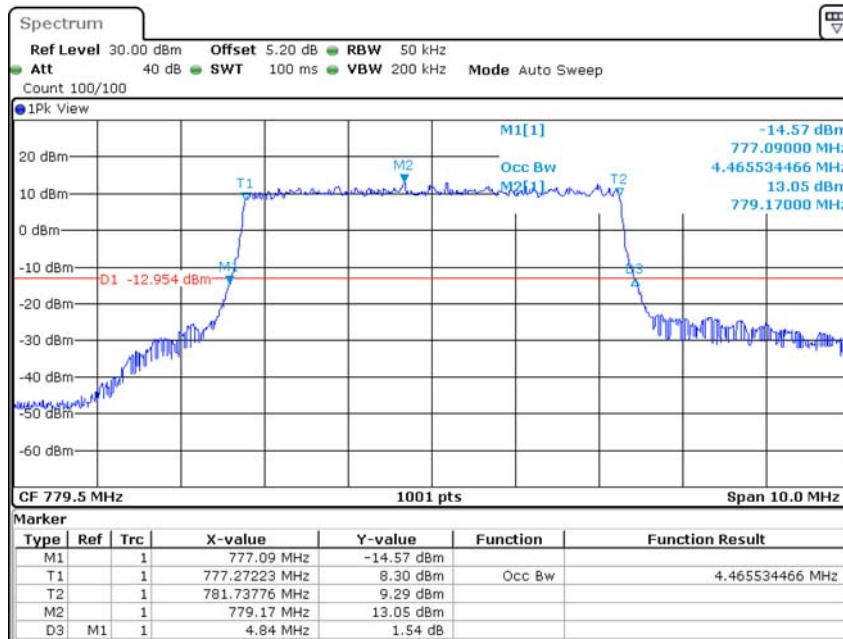
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Band13-5MHz-QPSK-23255-25RB#0-4.466



Date: 17.MAY.2021 00:57:52

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



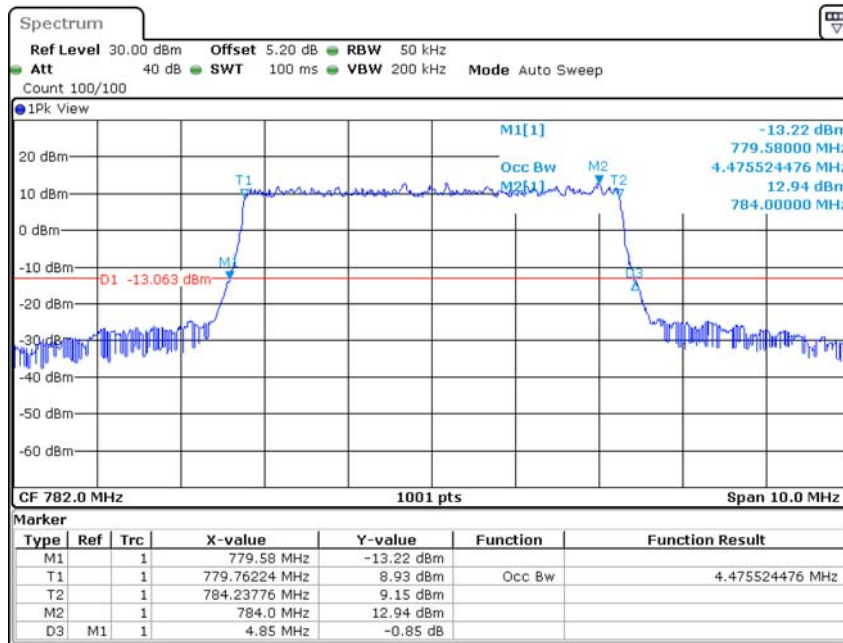
Date: 17.MAY.2021 01:55:35



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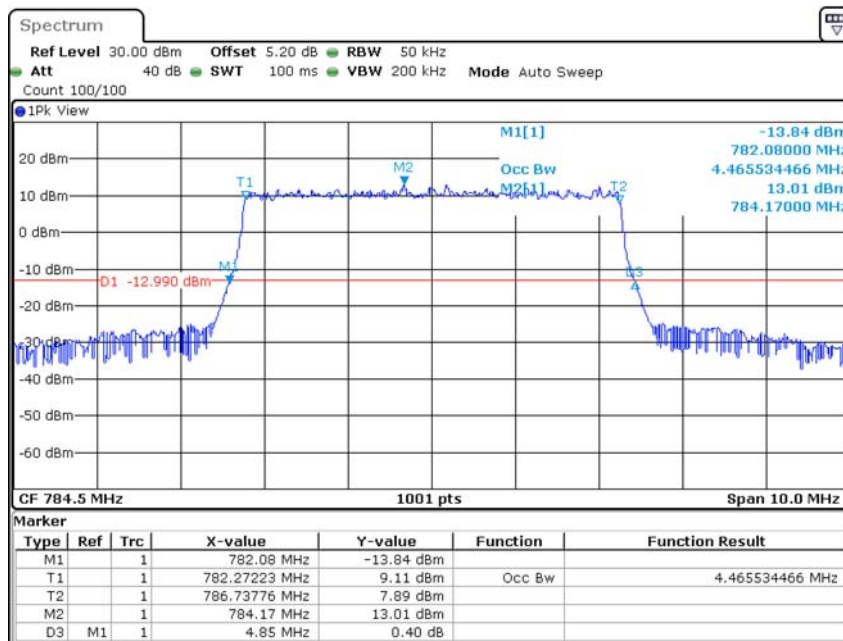
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Band13-5MHz-64QAM-23230-25RB#0-4.476



Date: 17.MAY.2021 01:55:55

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



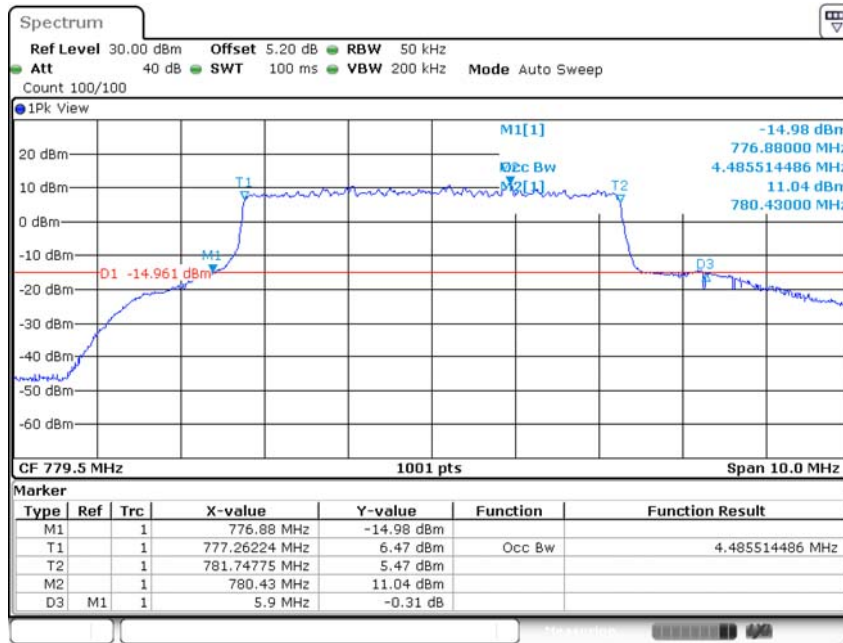
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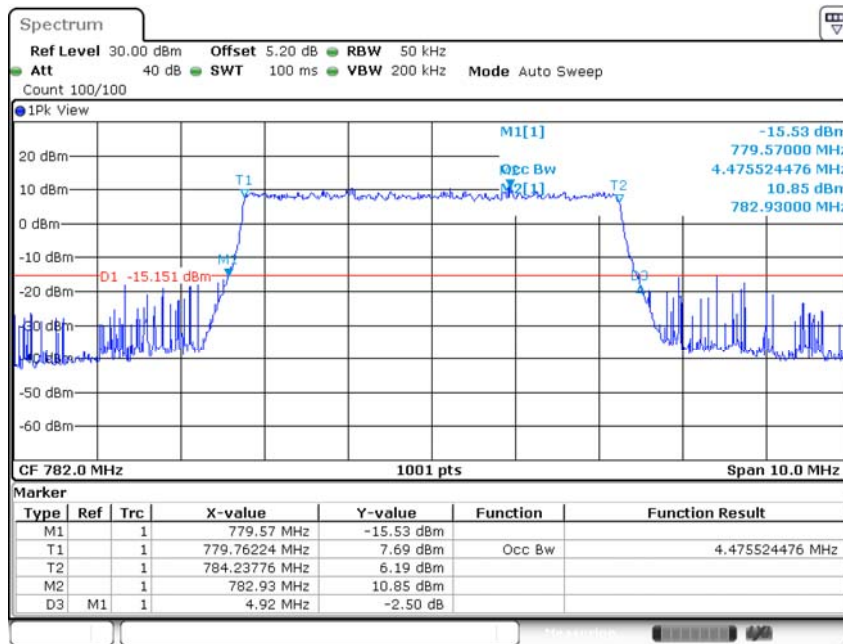
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Band13-5MHz-256QAM-23205-25RB#0-4.486



Date: 5.MAY.2021 04:20:03

Band13-5MHz-256QAM-23230-25RB#0-4.476



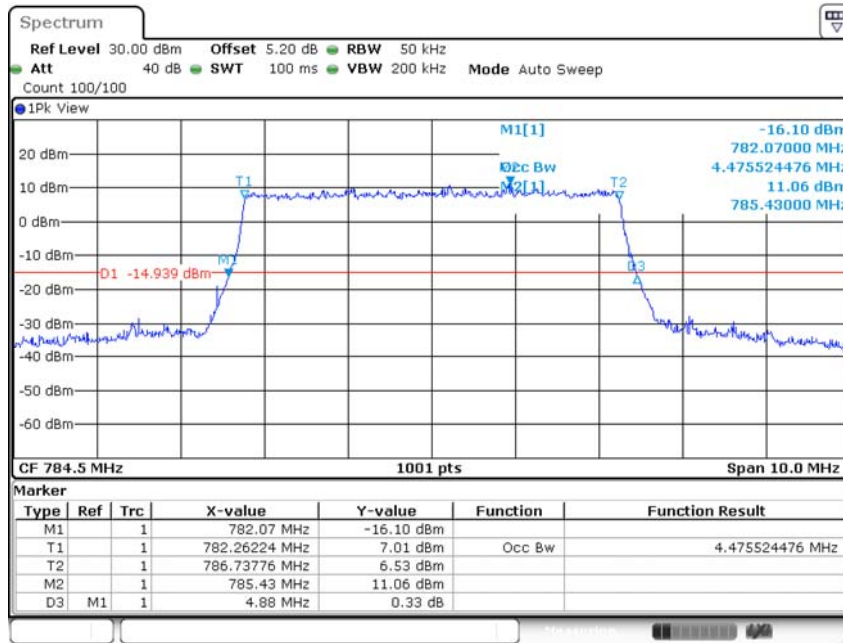
Date: 5.MAY.2021 04:20:23



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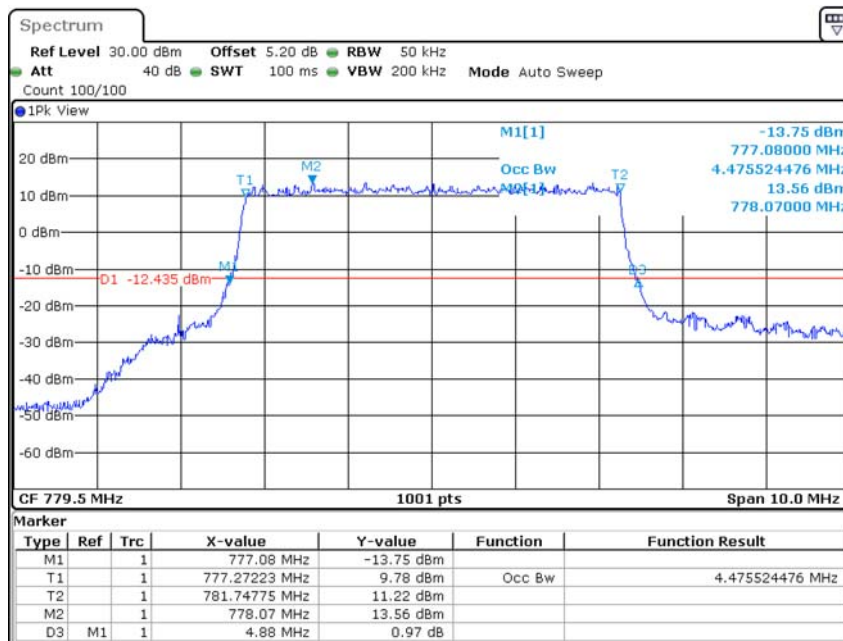
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Band13-5MHz-256QAM-23255-25RB#0-4.476



Date: 5.MAY.2021 04:20:43

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



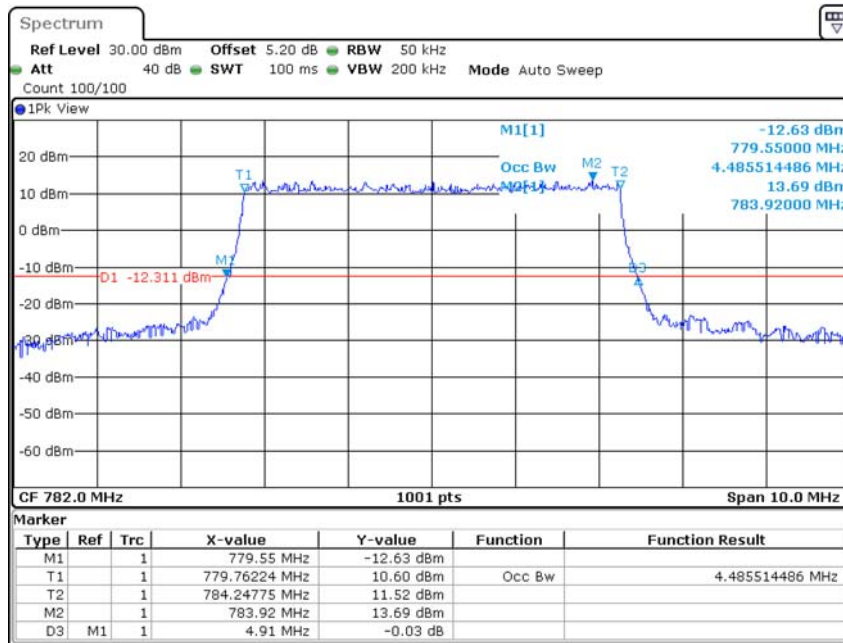
Date: 17.MAY.2021 00:56:52



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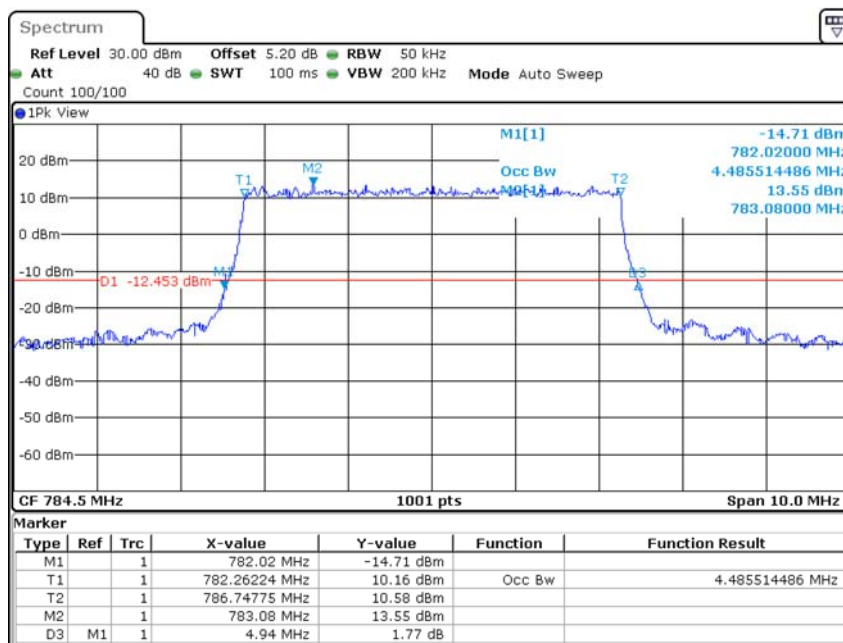
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Band13-5MHz-16QAM-23230-25RB#0-4.486



Date: 17.MAY.2021 00:57:32

Band13-5MHz-16QAM-23255-25RB#0-4.486



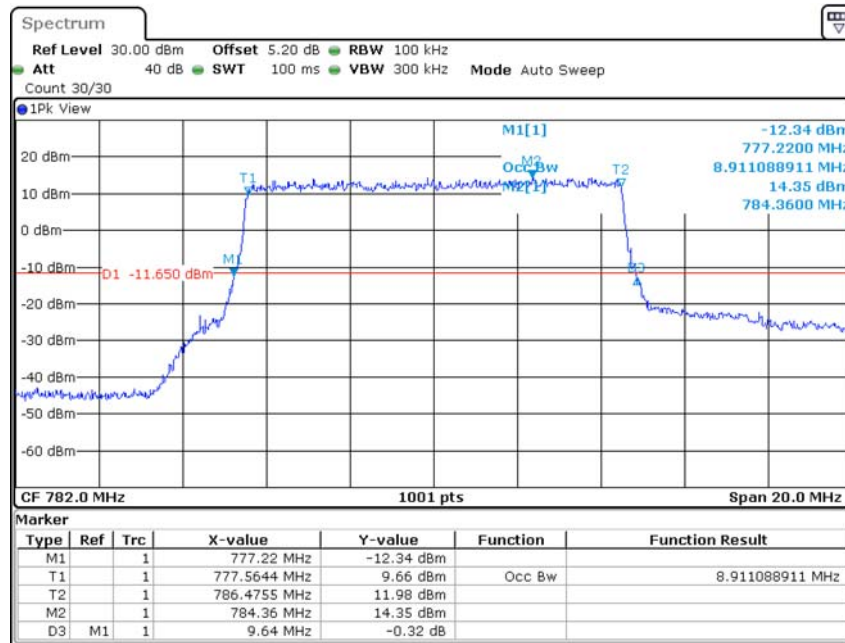
Date: 17.MAY.2021 00:58:11



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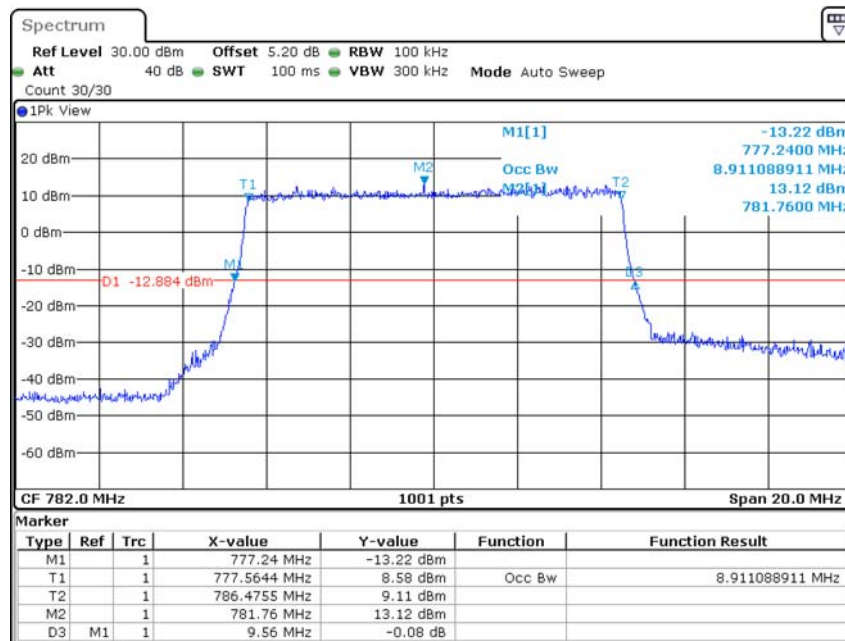
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Band13-10MHz-QPSK-23230-50RB#0-8.911



Date: 17.MAY.2021 00:58:30

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



Date: 17.MAY.2021 01:56:34

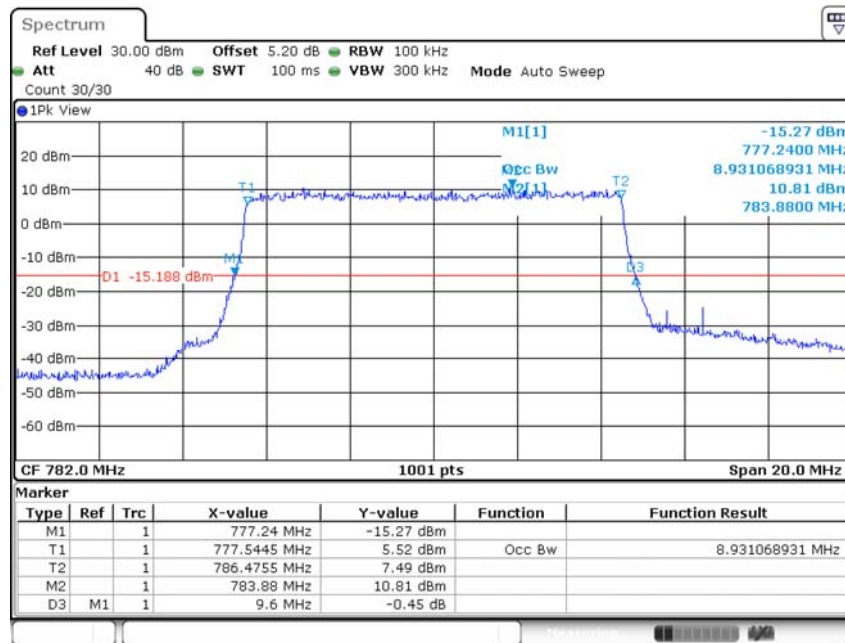


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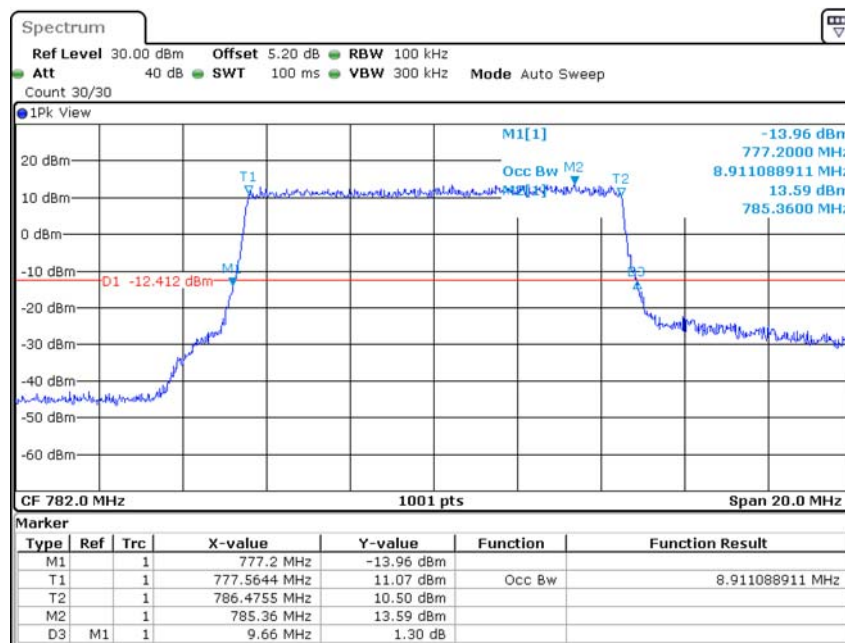


Band13-10MHz-256QAM-23230-50RB#0-8.931



Date: 5 MAY 2021 04:26:15

Band13-10MHz-16QAM-23230-50RB#0-8.911



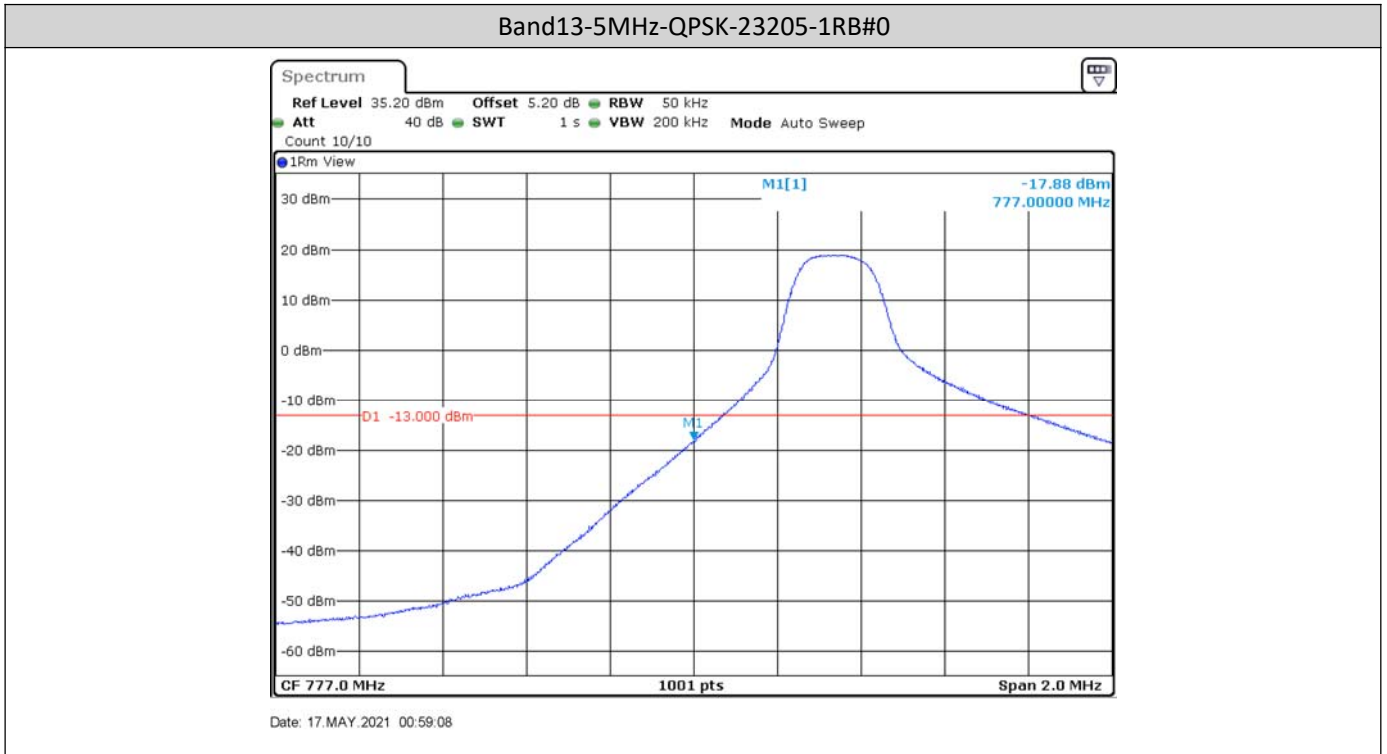
Date: 17 MAY 2021 00:58:42



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5. Band Edge Compliance

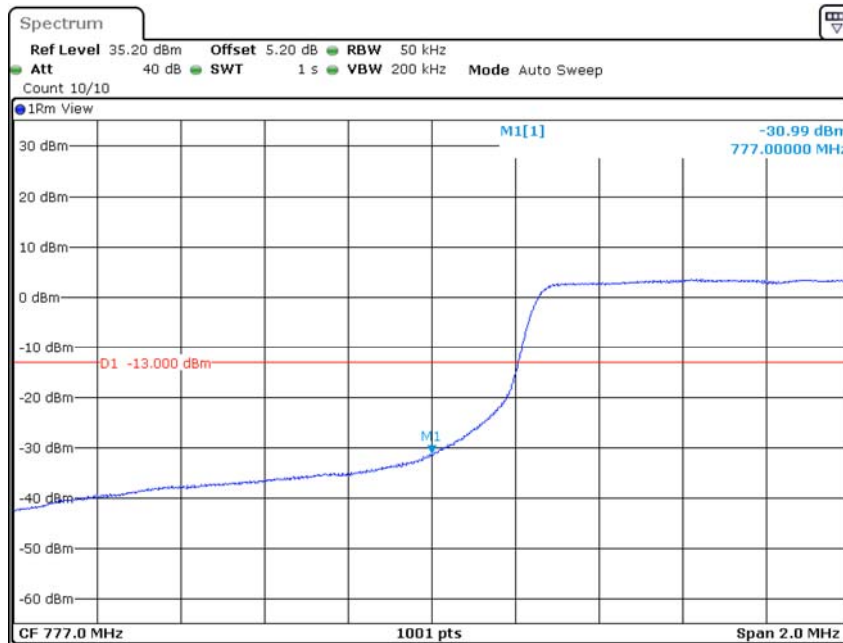
5.1. Test Plots



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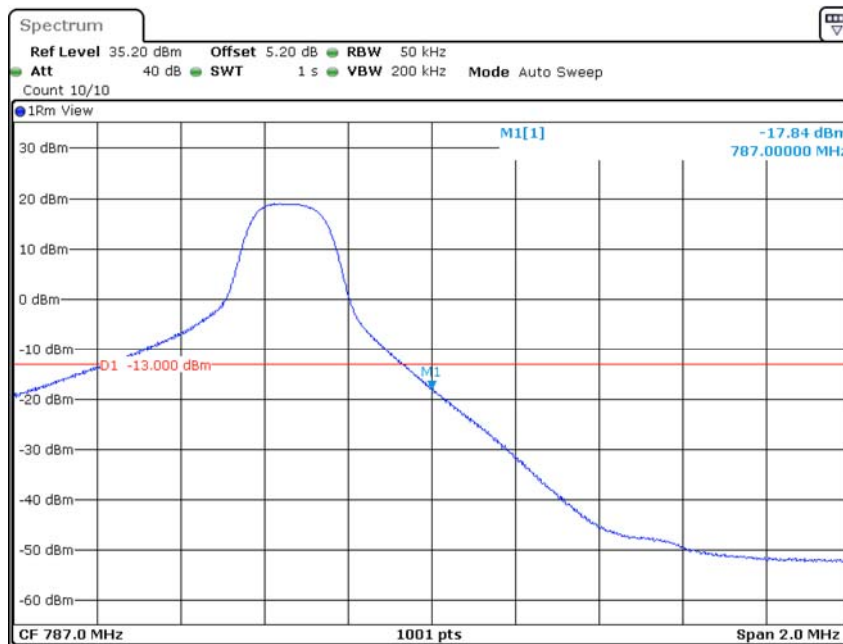
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Band13-5MHz-QPSK-23205-25RB#0



Date: 17.MAY.2021 00:59:50

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



Date: 17.MAY.2021 01:00:35



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



Date: 17.MAY.2021 01:01:16

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

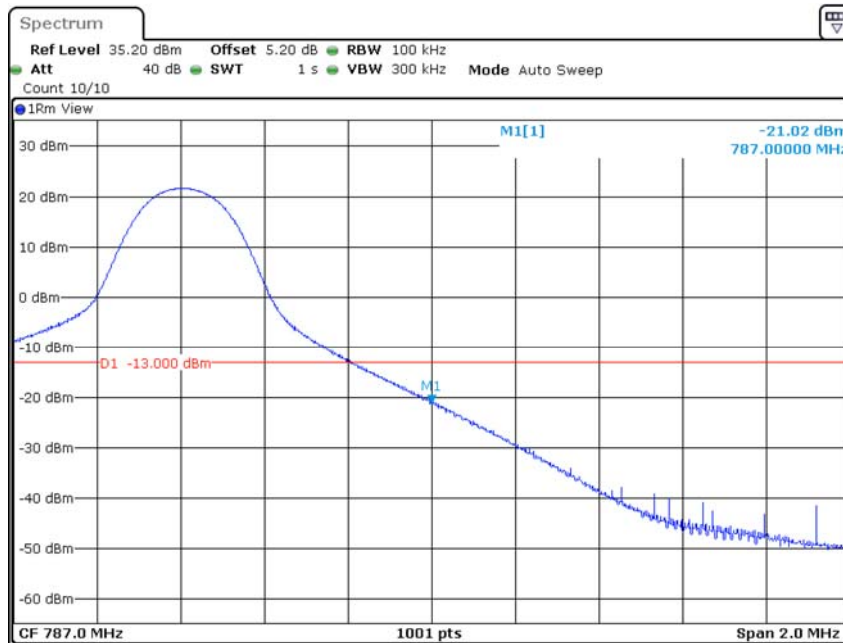


Date: 17.MAY.2021 01:02:02



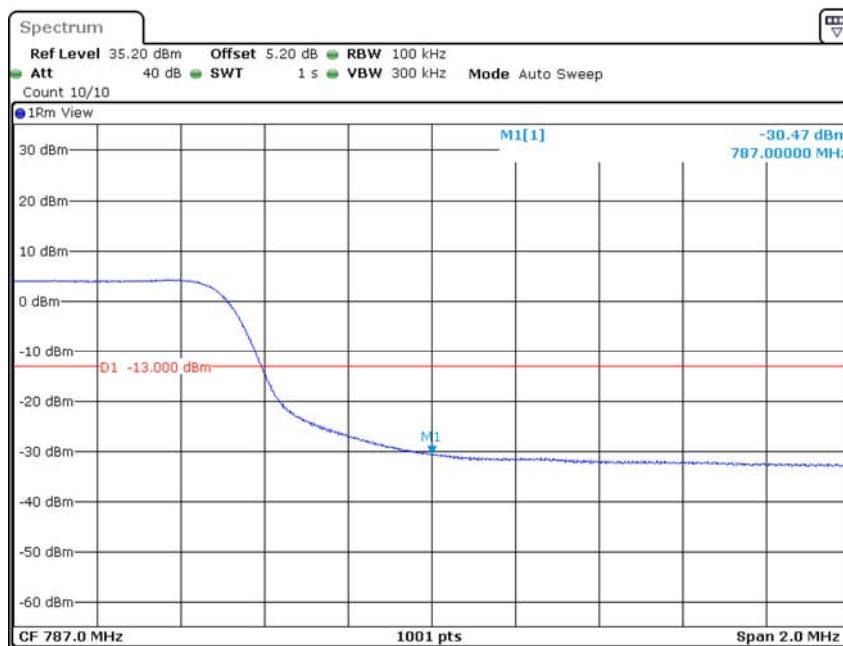
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Band13-10MHz-QPSK-23230_Right-1RB#49



Date: 17.MAY.2021 01:02:47

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



Date: 17.MAY.2021 01:03:29



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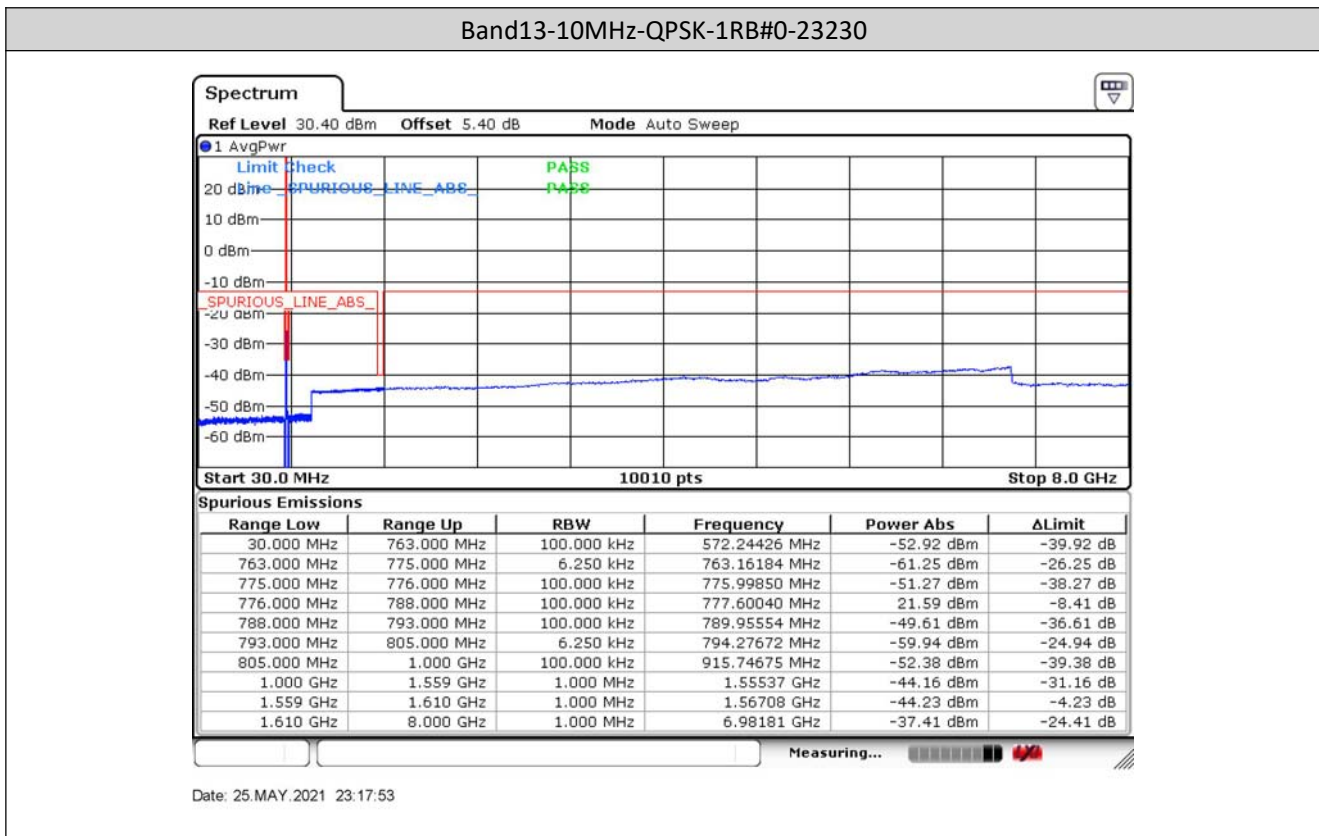
6. Spurious Emission at Antenna Terminal

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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7. Field Strength of Spurious Radiation

7.1. Test Band = Band 13

7.1.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.3203	35.80	-53.27	-13.00	40.27	Horizontal
2	1555.2278	38.12	-51.16	-13.00	38.16	Horizontal
3	2187.4594	28.42	-58.14	-13.00	45.14	Horizontal
4	2978.1989	21.99	-60.99	-13.00	47.99	Horizontal
5	4571.9286	51.35	-60.35	-13.00	47.35	Horizontal
6	7464.4732	48.90	-53.42	-13.00	40.42	Horizontal



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7.2. Test Band = Band 13

7.2.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	40.76	-48.31	-13.00	35.31	Vertical
2	1562.5281	38.48	-50.83	-13.00	37.83	Vertical
3	2812.4906	23.08	-60.59	-13.00	47.59	Vertical
4	4531.3266	52.46	-59.37	-13.00	46.37	Vertical
5	7968.8484	53.96	-47.98	-13.00	34.98	Vertical
6	9604.4802	46.75	-51.47	-13.00	38.47	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 [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.60	0.002046	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	3.10	0.003964	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-3.50	-0.004476	±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	1.50	0.001918	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-1.50	-0.001918	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-2.30	-0.002941	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.50	0.000639	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.50	0.000639	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.80	0.002302	±2.5	PASS



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