



Appendix B

E-UTRA Band 14



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.46	23.5	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.59	23.63	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.49	23.53	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#13	22.48	22.52	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#6	22.48	22.52	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#0	22.47	22.51	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.47	22.51	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.53	23.57	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.44	23.48	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.52	23.56	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#6	22.44	22.48	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#0	22.45	22.49	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#13	22.50	22.54	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.45	22.49	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.48	23.52	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.50	23.54	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.51	23.55	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	22.41	22.45	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#13	22.38	22.42	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#6	22.43	22.47	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.39	22.43	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.56	21.6	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.51	21.55	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.62	21.66	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#0	20.42	20.46	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#6	20.41	20.45	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#13	20.40	20.44	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	20.43	20.47	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.61	21.65	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.59	21.63	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.48	21.52	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#6	20.37	20.41	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#13	20.44	20.48	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#0	20.38	20.42	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.41	20.45	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.48	21.52	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.53	21.57	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.50	21.54	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#6	20.38	20.42	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#0	20.35	20.39	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#13	20.27	20.31	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.36	20.4	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.79	18.83	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.80	18.84	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.75	18.79	34.77	PASS
Band14	5MHz	256QAM	23305	12RB#13	18.60	18.64	34.77	PASS
Band14	5MHz	256QAM	23305	12RB#0	18.55	18.59	34.77	PASS
Band14	5MHz	256QAM	23305	12RB#6	18.53	18.57	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.61	18.65	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.71	18.75	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.67	18.71	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.64	18.68	34.77	PASS
Band14	5MHz	256QAM	23330	12RB#13	18.51	18.55	34.77	PASS
Band14	5MHz	256QAM	23330	12RB#0	18.56	18.6	34.77	PASS
Band14	5MHz	256QAM	23330	12RB#6	18.56	18.6	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.61	18.65	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.74	18.78	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.78	18.82	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.79	18.83	34.77	PASS
Band14	5MHz	256QAM	23355	12RB#0	18.59	18.63	34.77	PASS



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Band14	5MHz	256QAM	23355	12RB#6	18.54	18.58	34.77	PASS
Band14	5MHz	256QAM	23355	12RB#13	18.47	18.51	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.54	18.58	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.68	22.72	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.76	22.8	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.59	22.63	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#0	21.45	21.49	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#6	21.51	21.55	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#13	21.48	21.52	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.45	21.49	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.58	22.62	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.64	22.68	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.75	22.79	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#6	21.44	21.48	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#0	21.43	21.47	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#13	21.43	21.47	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.42	21.46	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.68	22.72	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.57	22.61	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.67	22.71	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#0	21.40	21.44	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#6	21.42	21.46	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#13	21.35	21.39	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.41	21.45	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.45	23.49	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.52	23.56	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.46	23.5	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#12	22.45	22.49	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#25	22.43	22.47	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#0	22.47	22.51	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.41	22.45	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.58	21.62	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.64	21.68	34.77	PASS



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Band14	10MHz	64QAM	23330	1RB#0	21.53	21.57	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#25	20.39	20.43	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#0	20.43	20.47	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#12	20.43	20.47	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.40	20.44	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.63	18.67	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	18.81	18.85	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	18.70	18.74	34.77	PASS
Band14	10MHz	256QAM	23330	25RB#0	18.54	18.58	34.77	PASS
Band14	10MHz	256QAM	23330	25RB#12	18.61	18.65	34.77	PASS
Band14	10MHz	256QAM	23330	25RB#25	18.59	18.63	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.54	18.58	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.55	22.59	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.56	22.6	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.68	22.72	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#25	21.43	21.47	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#0	21.46	21.5	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#12	21.44	21.48	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.40	21.44	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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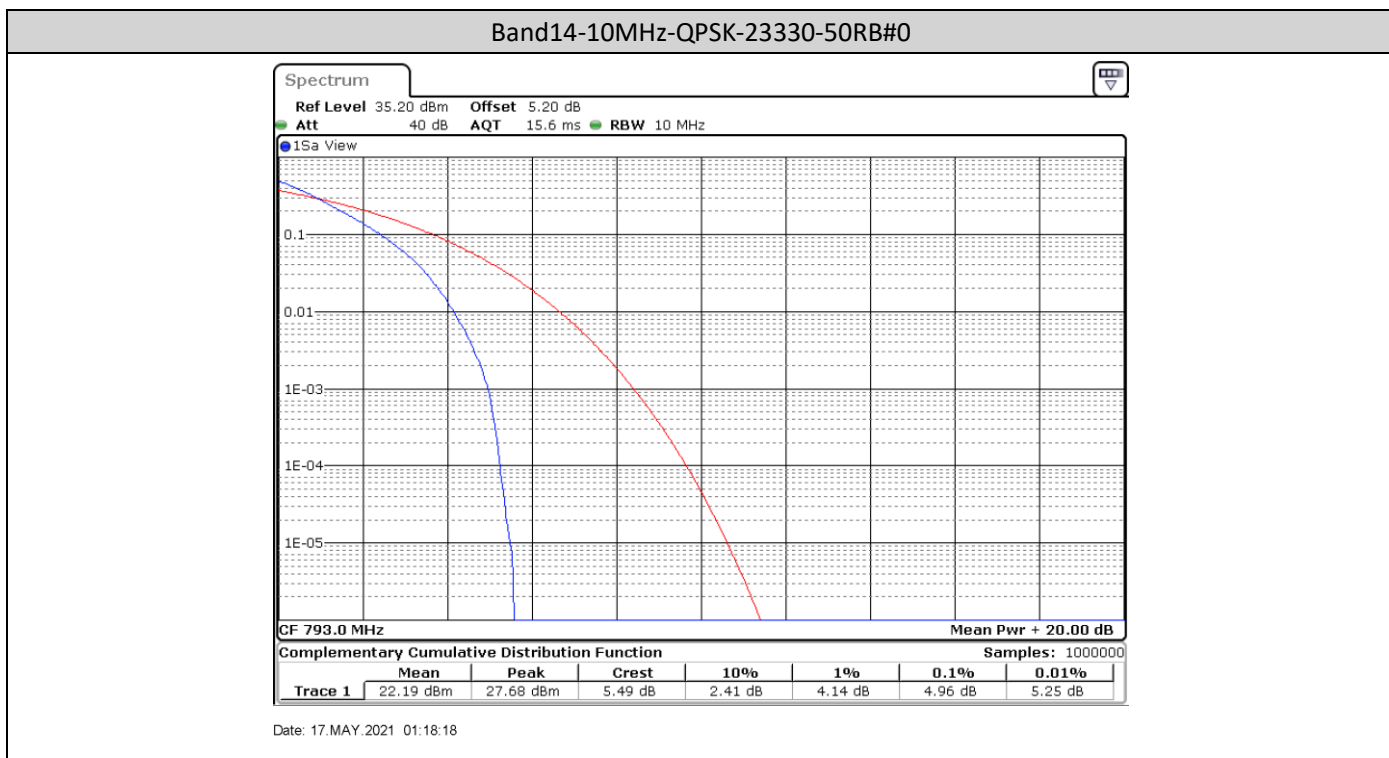


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.96	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.29	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.17	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.80	13	PASS

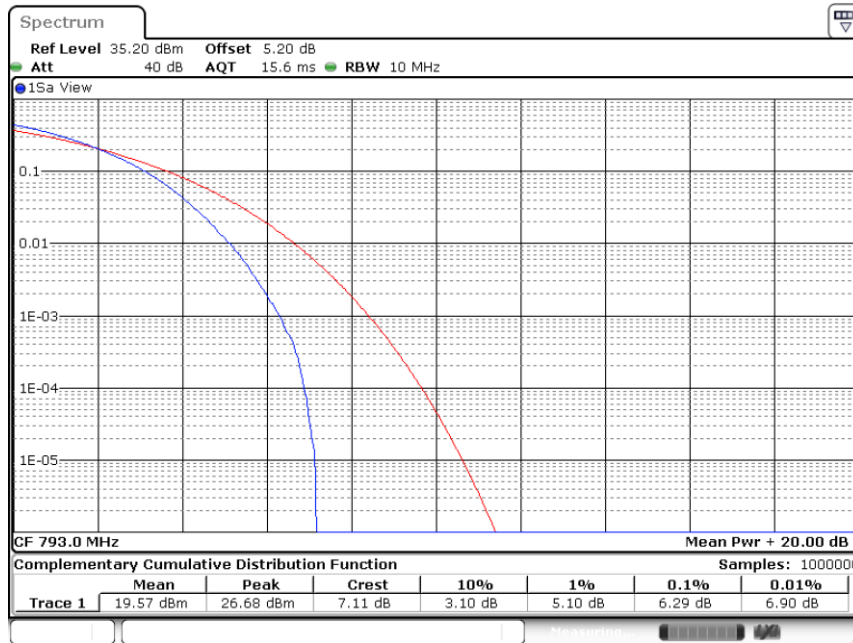
2.2. Test Plots



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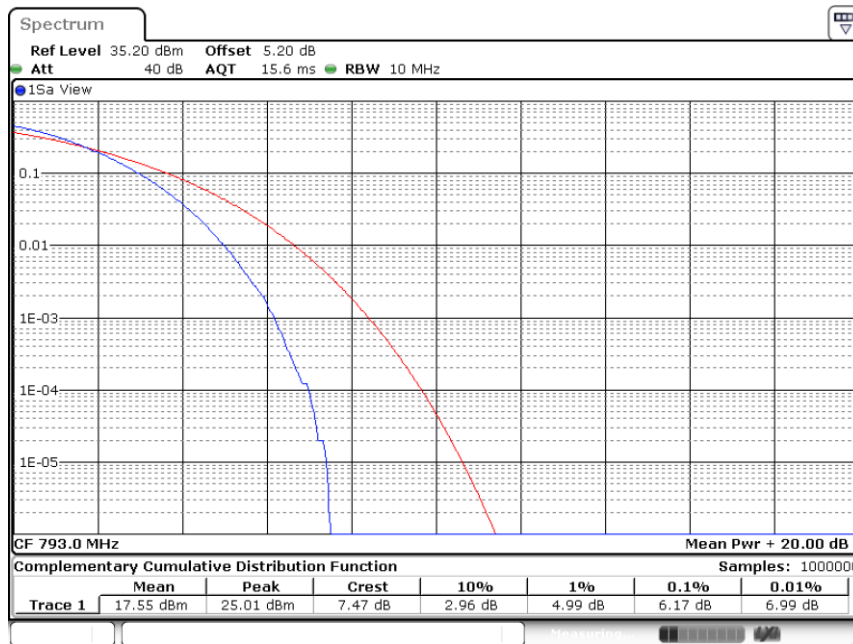
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Band14-10MHz-64QAM-23330-50RB#0



Date: 5.MAY.2021 04:56:18

Band14-10MHz-256QAM-23330-50RB#0



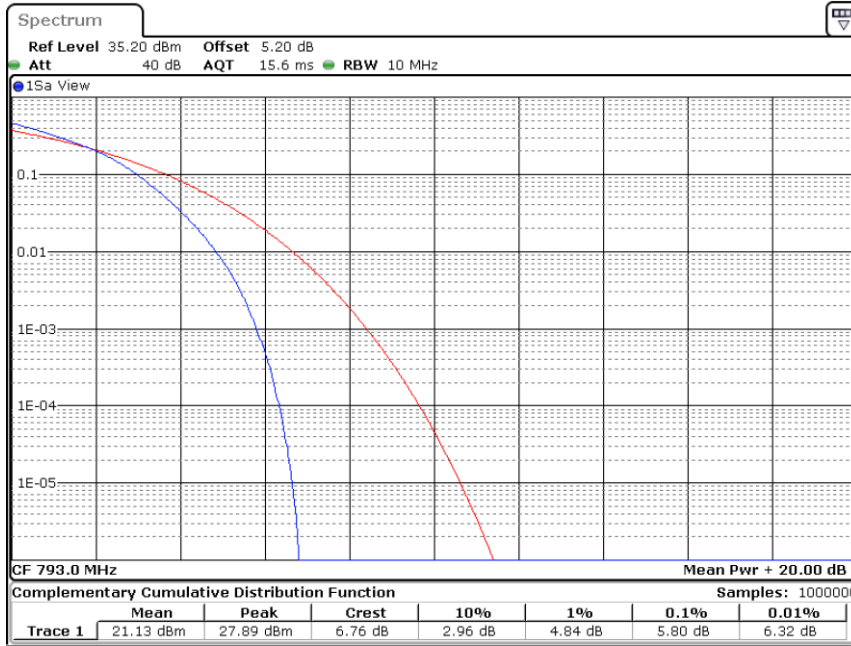
Date: 7.MAY.2021 03:24:06



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Band14-10MHz-16QAM-23330-50RB#0



Date: 17.MAY.2021 01:18:29

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



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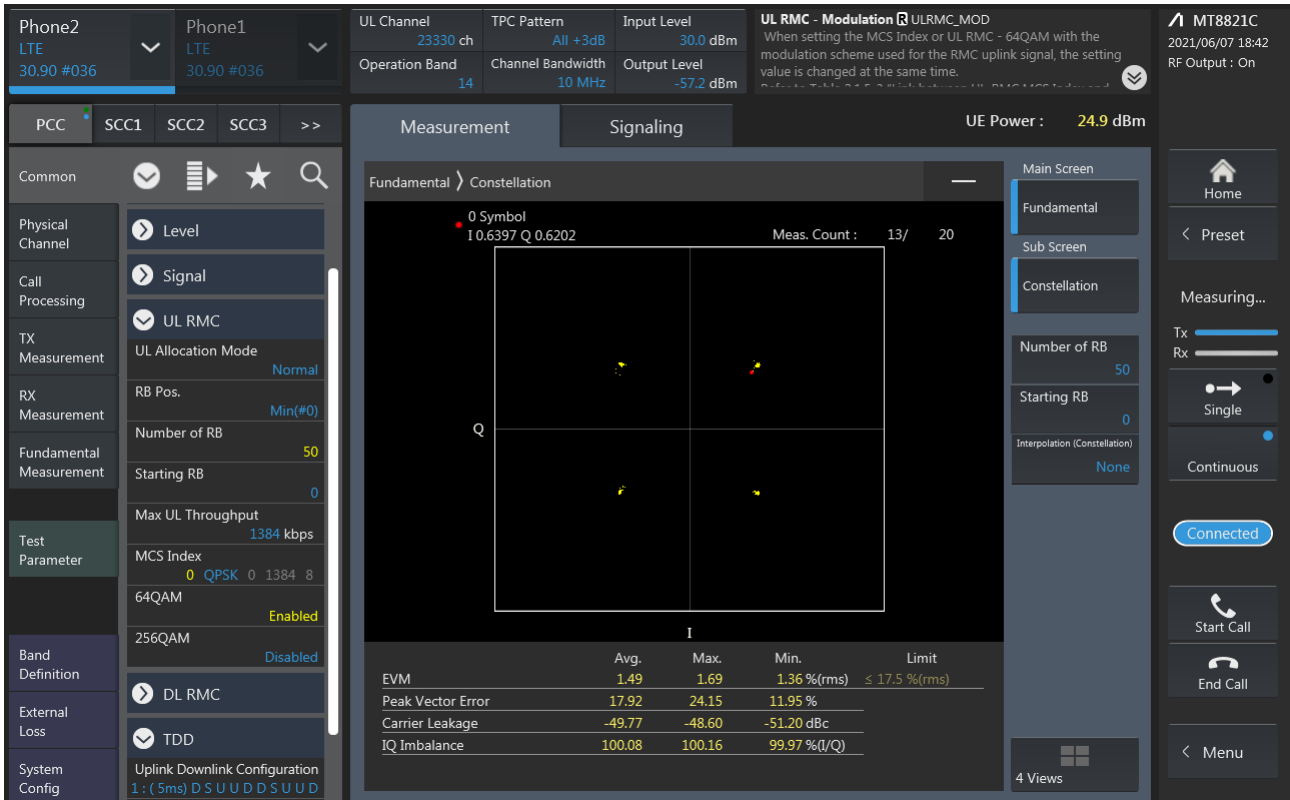
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



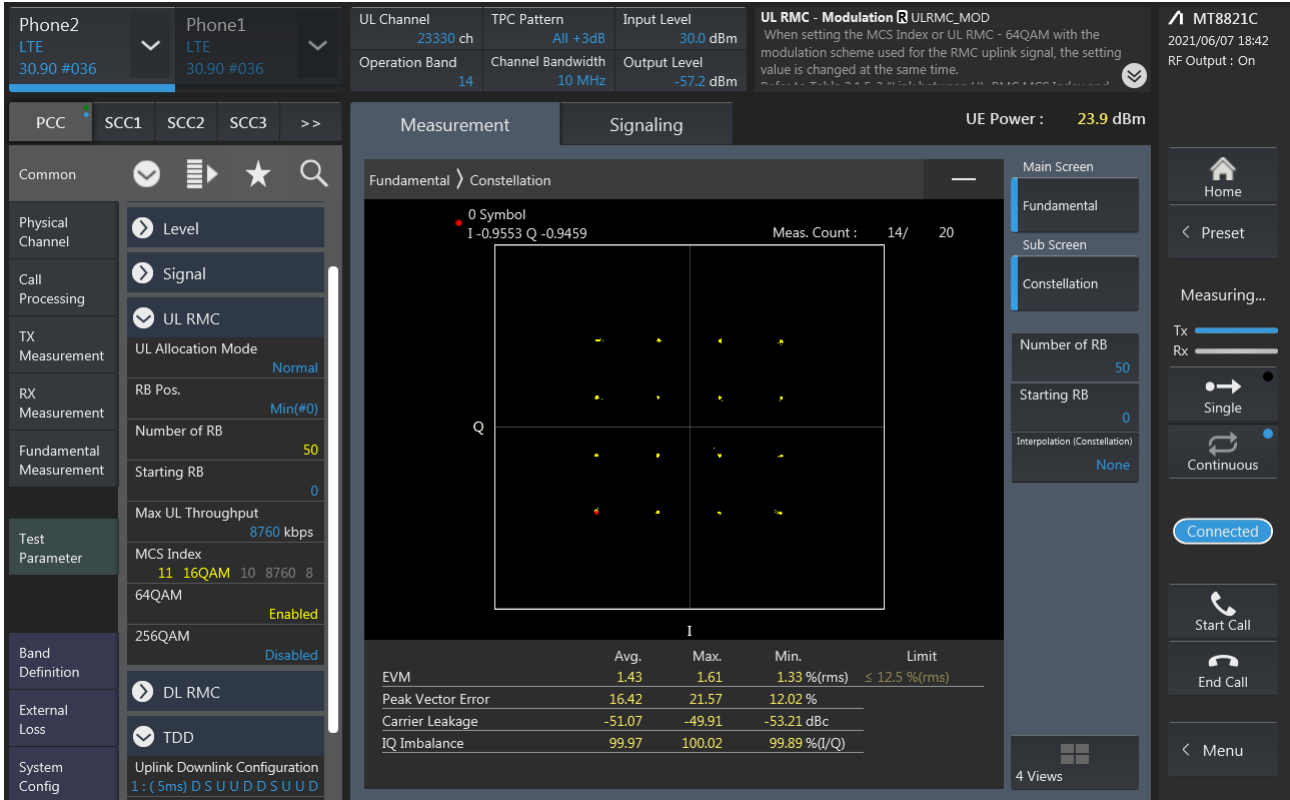
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



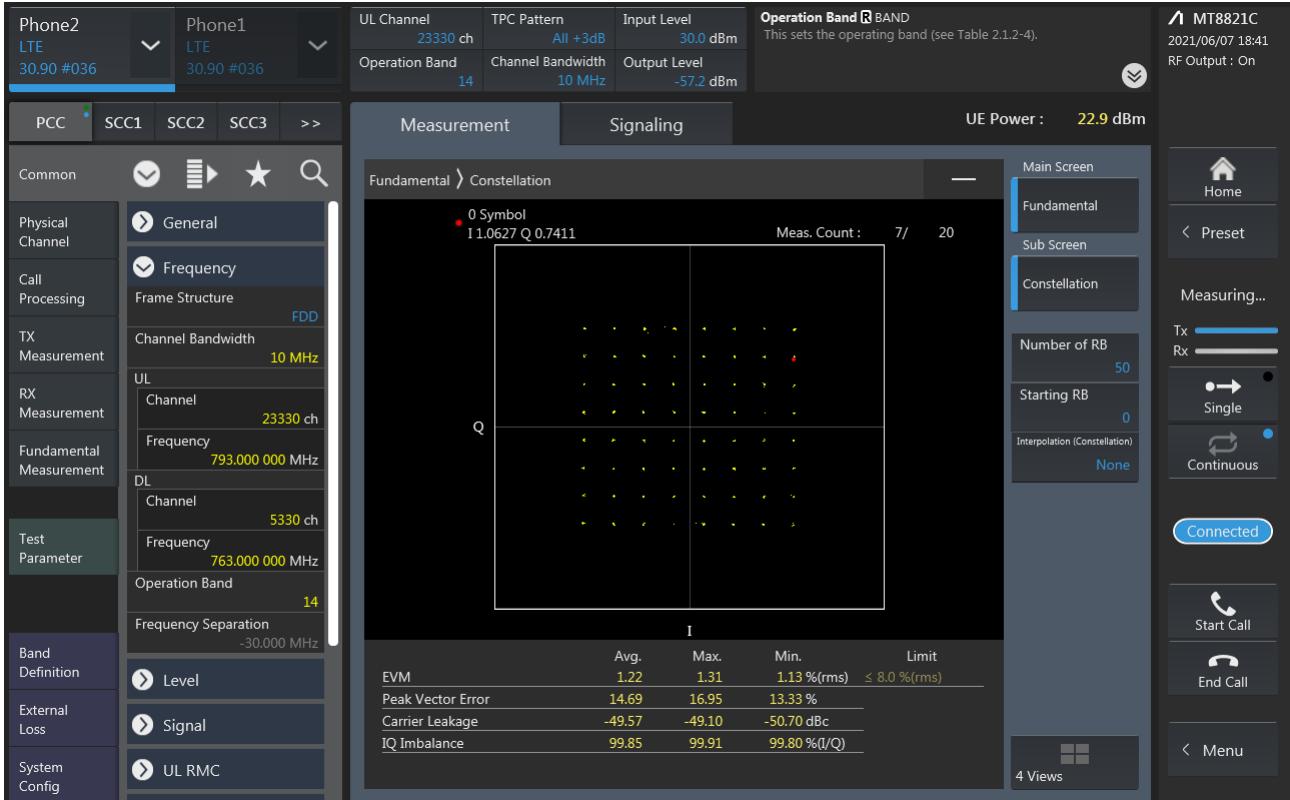
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3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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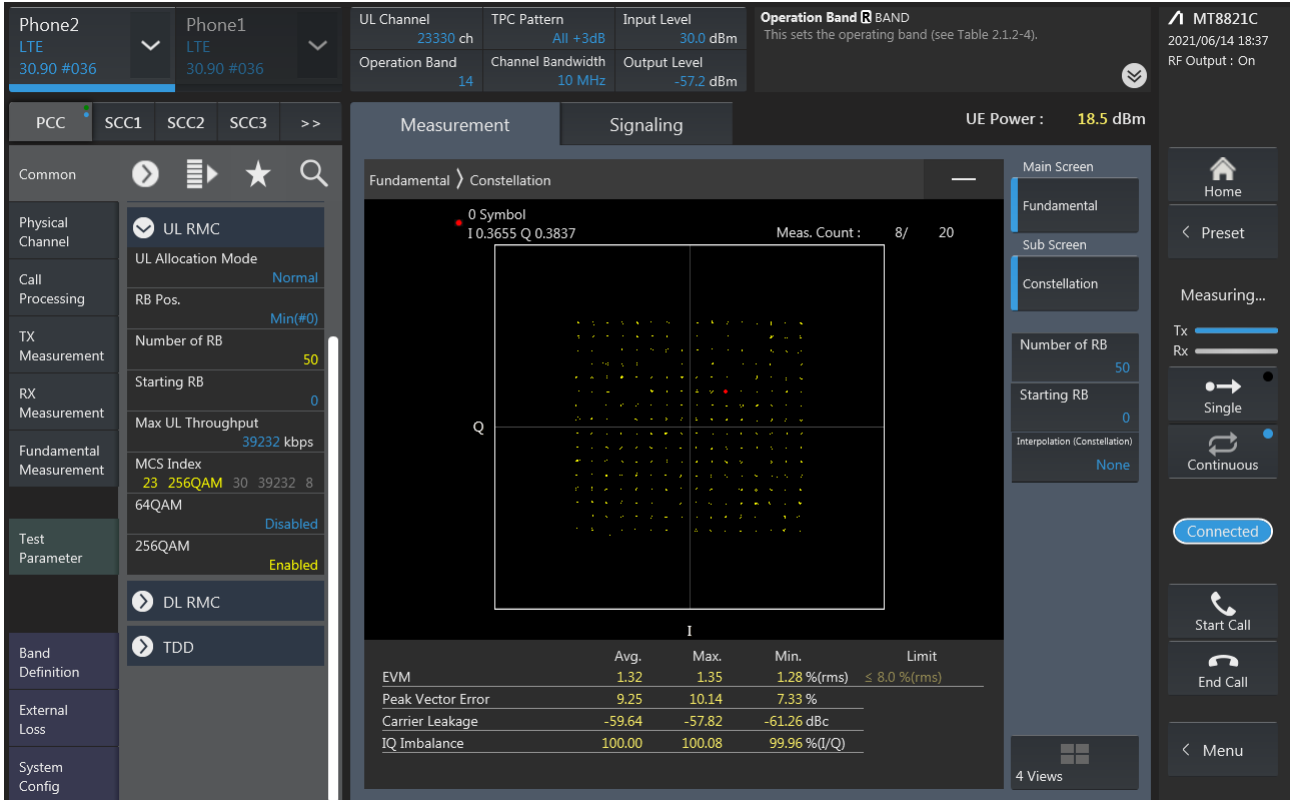
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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
Band14	5MHz	QPSK	23305	25RB#0	4.476	4.830	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.466	4.850	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.476	4.850	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.466	4.860	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.466	4.860	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.456	4.830	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.496	6.260	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.476	4.870	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.476	4.880	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.486	4.910	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.476	4.920	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.476	4.890	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.931	9.640	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.911	9.660	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.931	9.620	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.911	9.680	PASS

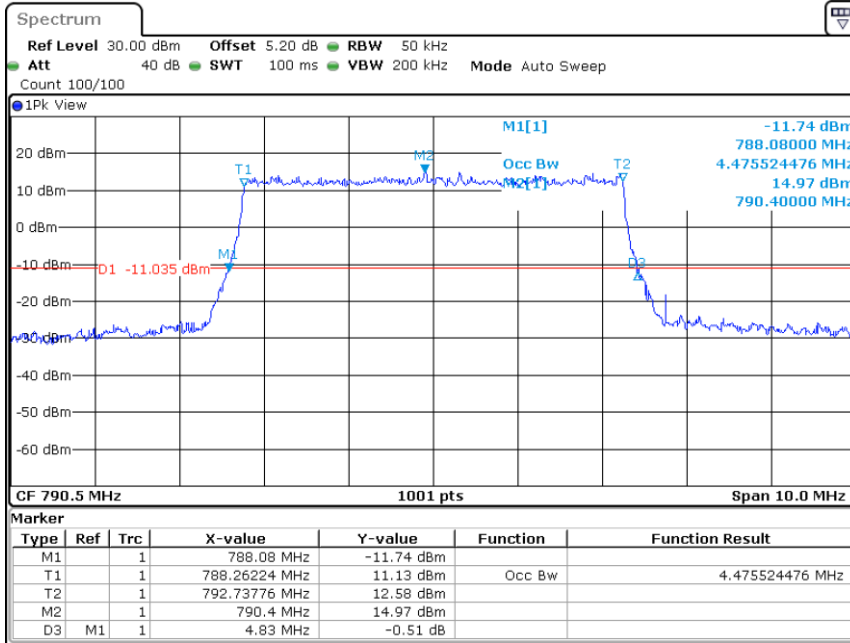


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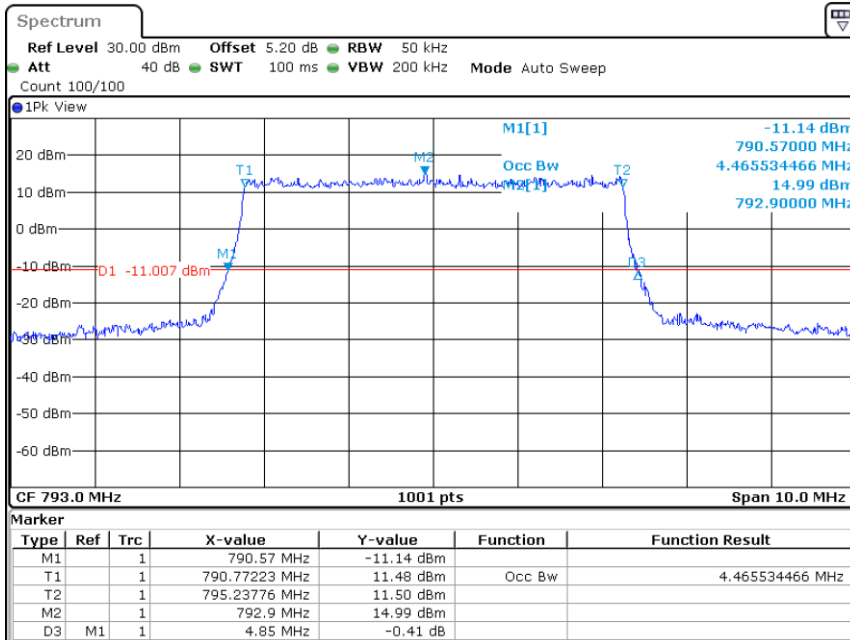
4.2. Test Plots

Band14-5MHz-QPSK-23305-25RB#0-4.476



Date: 17.MAY.2021 01:10:04

Band14-5MHz-QPSK-23330-25RB#0-4.466

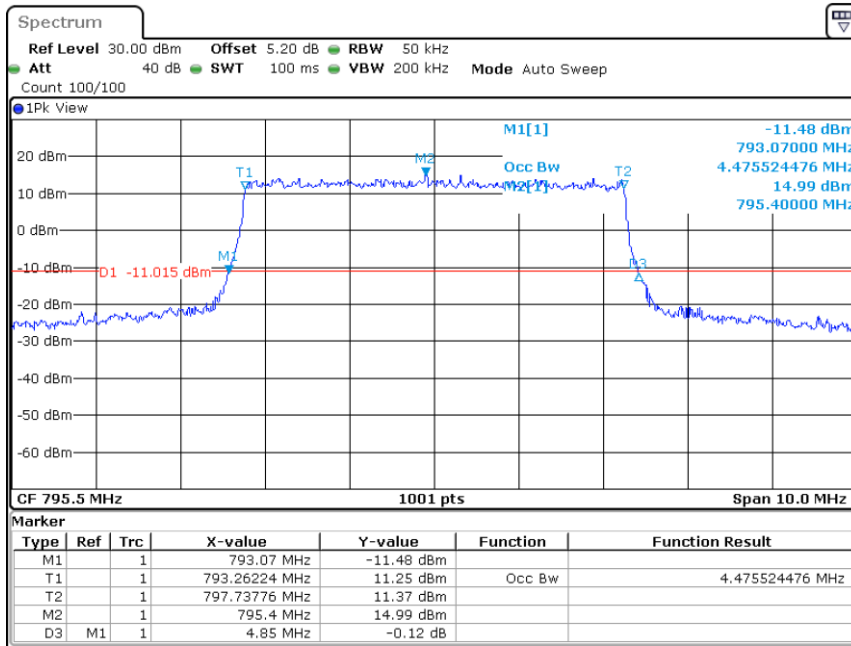


Date: 17.MAY.2021 01:10:43



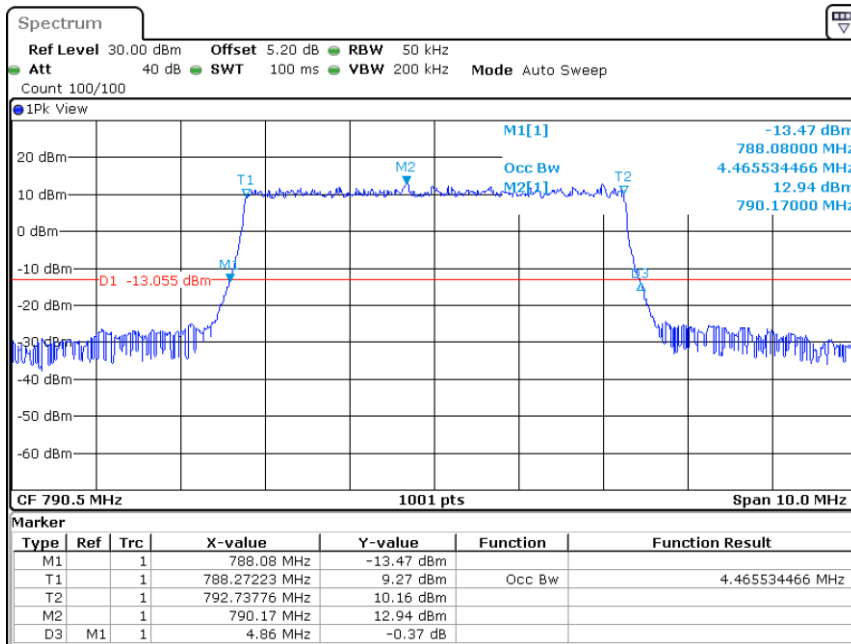
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Band14-5MHz-QPSK-23355-25RB#0-4.476



Date: 17.MAY.2021 01:11:23

Band14-5MHz-64QAM-23305-25RB#0-4.466

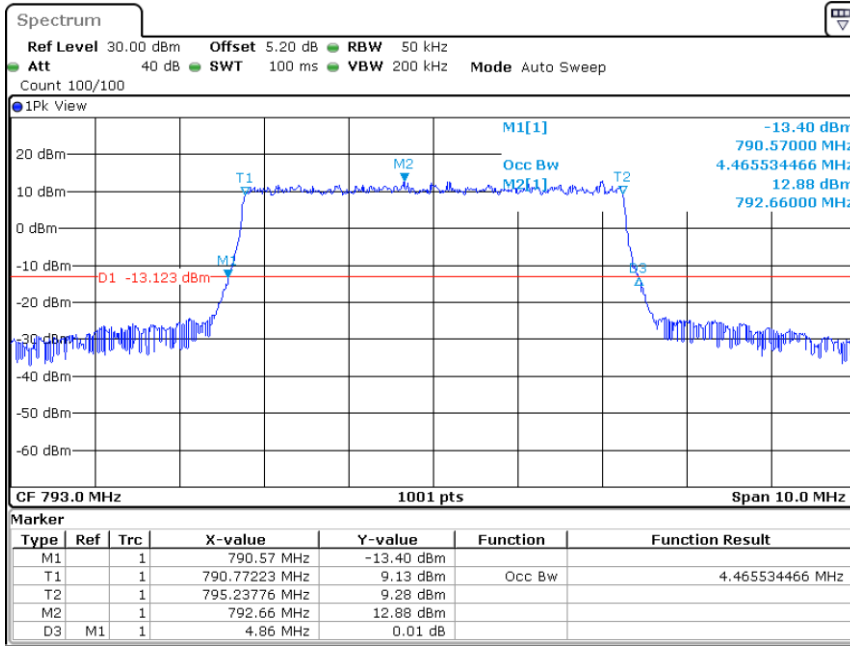


Date: 17.MAY.2021 02:03:15



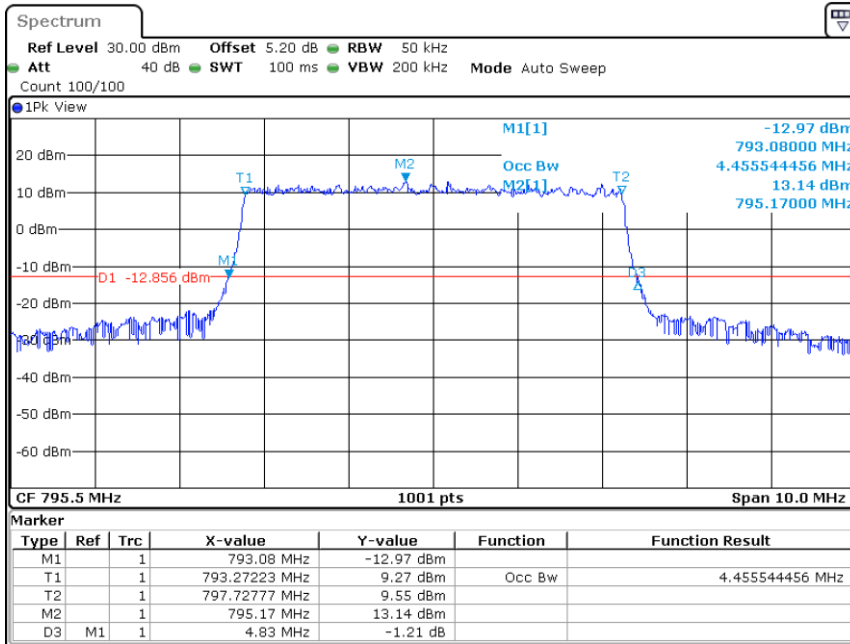
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Band14-5MHz-64QAM-23330-25RB#0-4.466



Date: 17.MAY.2021 02:03:35

Band14-5MHz-64QAM-23355-25RB#0-4.456

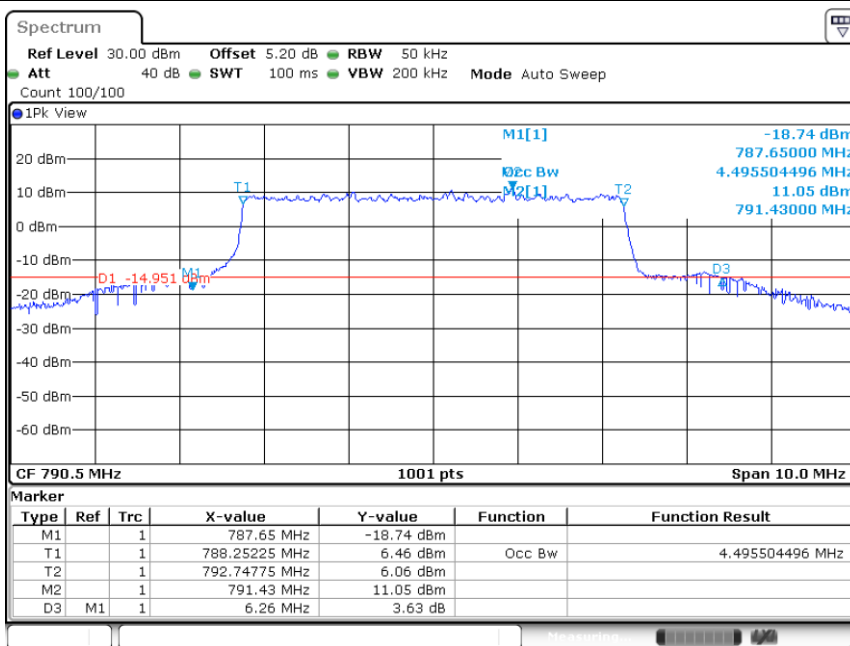


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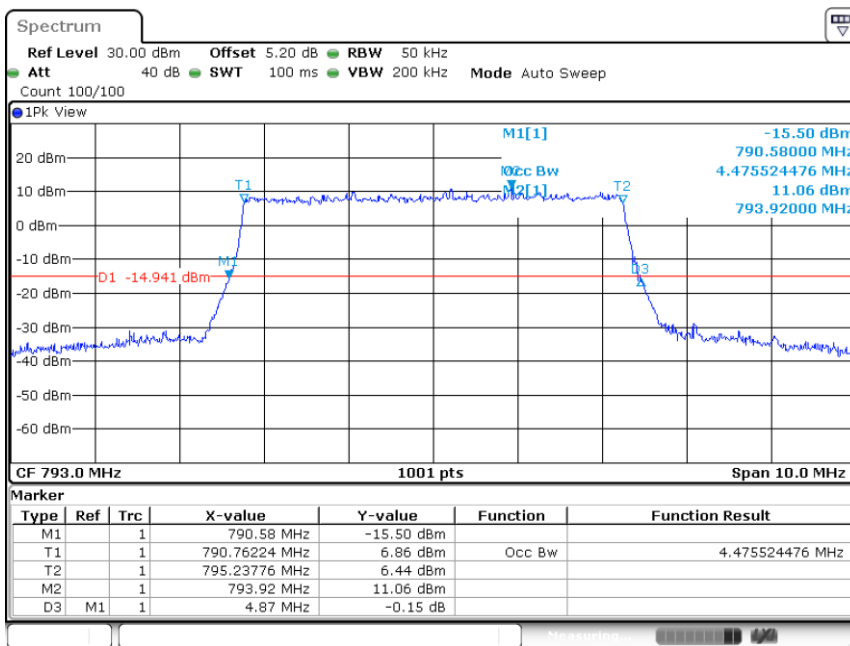
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Band14-5MHz-256QAM-23305-25RB#0-4.496



Date: 5.MAY.2021 04:27:40

Band14-5MHz-256QAM-23330-25RB#0-4.476

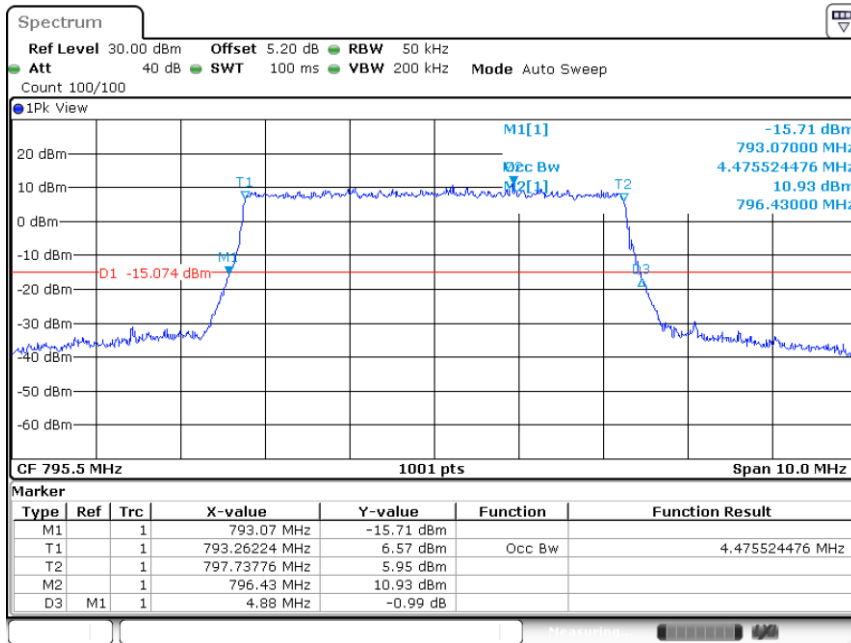


Date: 5.MAY.2021 04:28:00



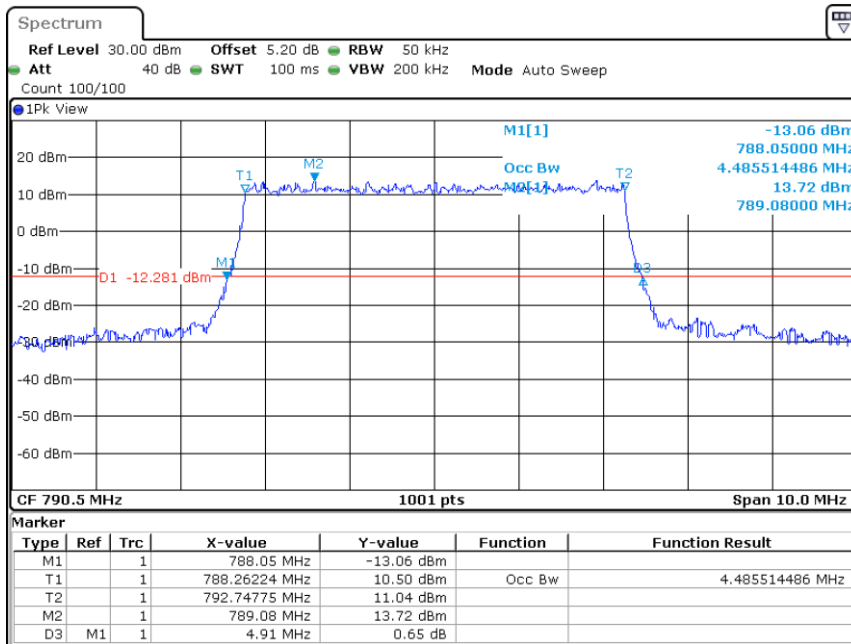
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Band14-5MHz-256QAM-23355-25RB#0-4.476



Date: 5.MAY.2021 04:28:20

Band14-5MHz-16QAM-23305-25RB#0-4.486

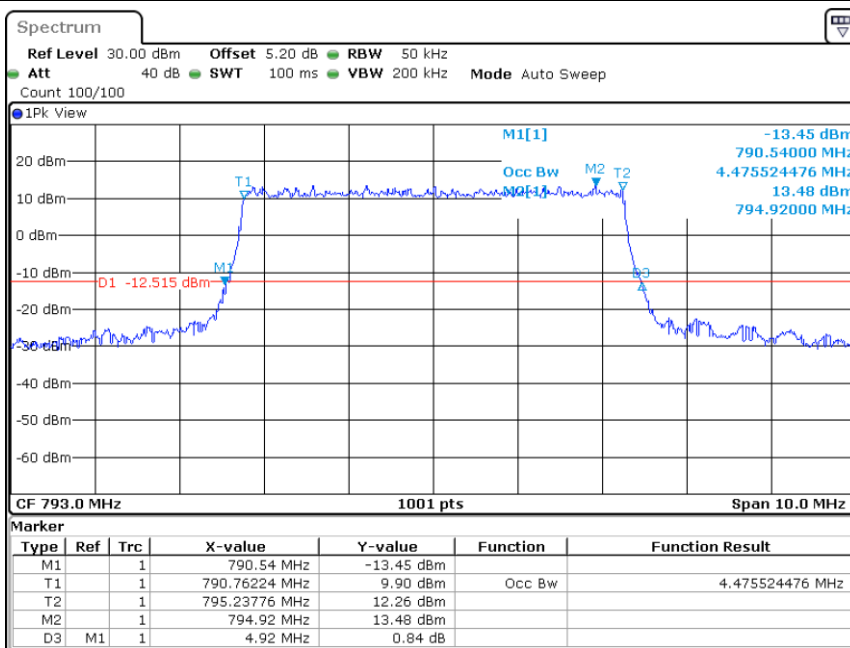


Date: 17.MAY.2021 01:10:23



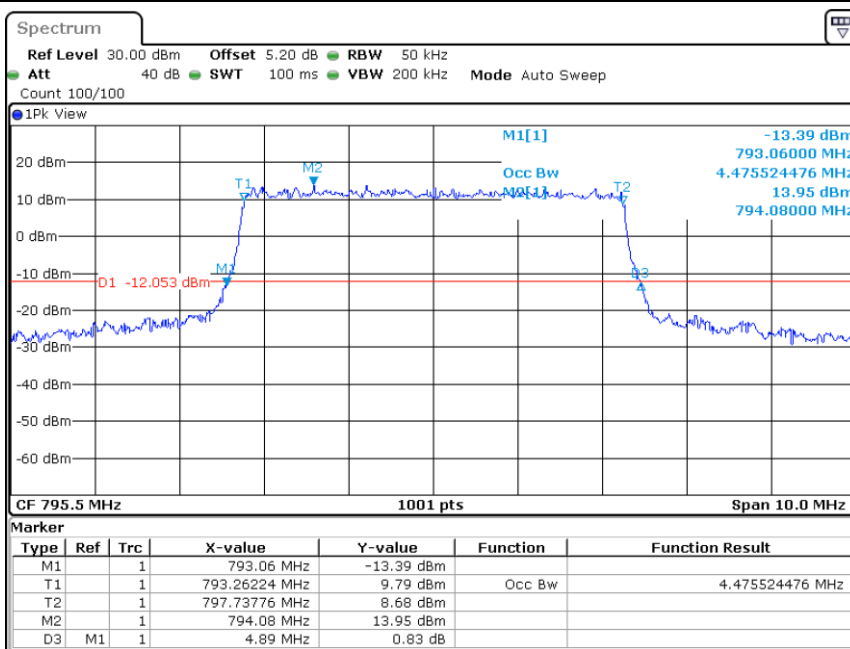
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Band14-5MHz-16QAM-23330-25RB#0-4.476



Date: 17.MAY.2021 01:11:03

Band14-5MHz-16QAM-23355-25RB#0-4.476

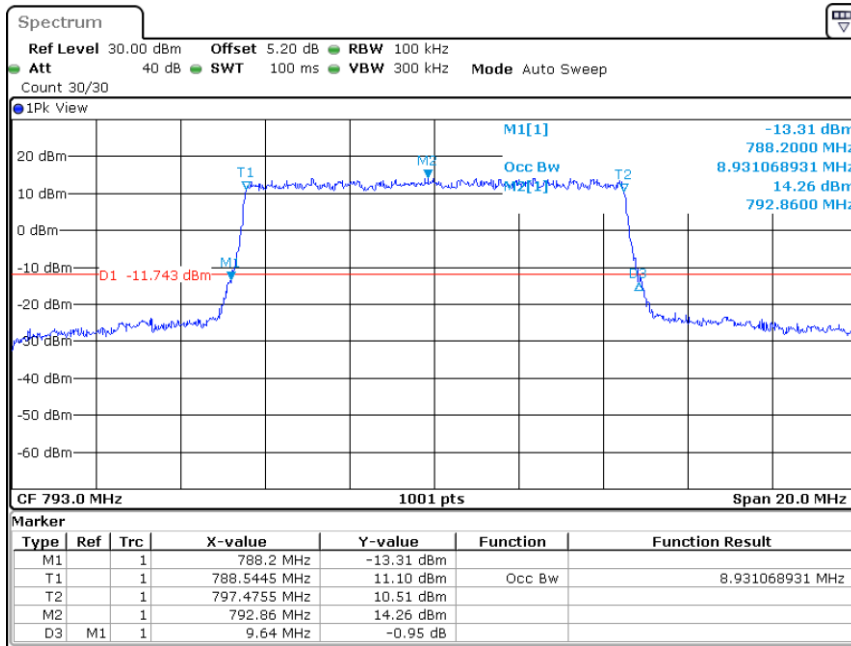


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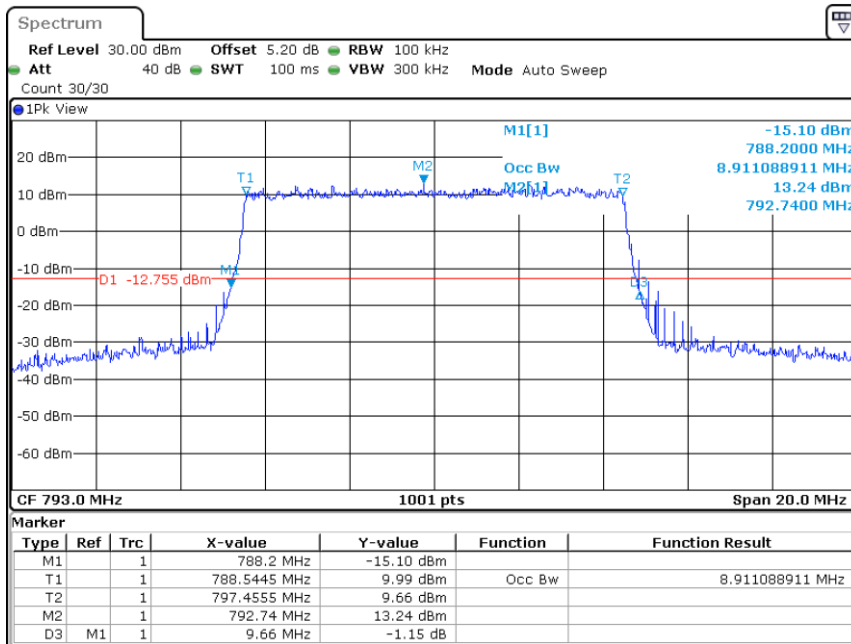
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Band14-10MHz-QPSK-23330-50RB#0-8.931



Date: 17.MAY.2021 01:12:01

Band14-10MHz-64QAM-23330-50RB#0-8.911

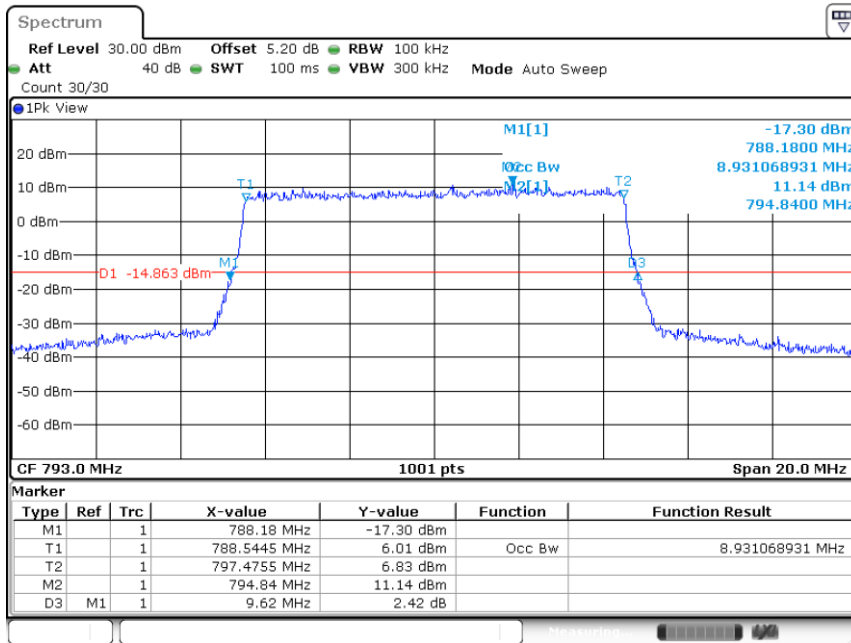


Date: 17.MAY.2021 02:04:15



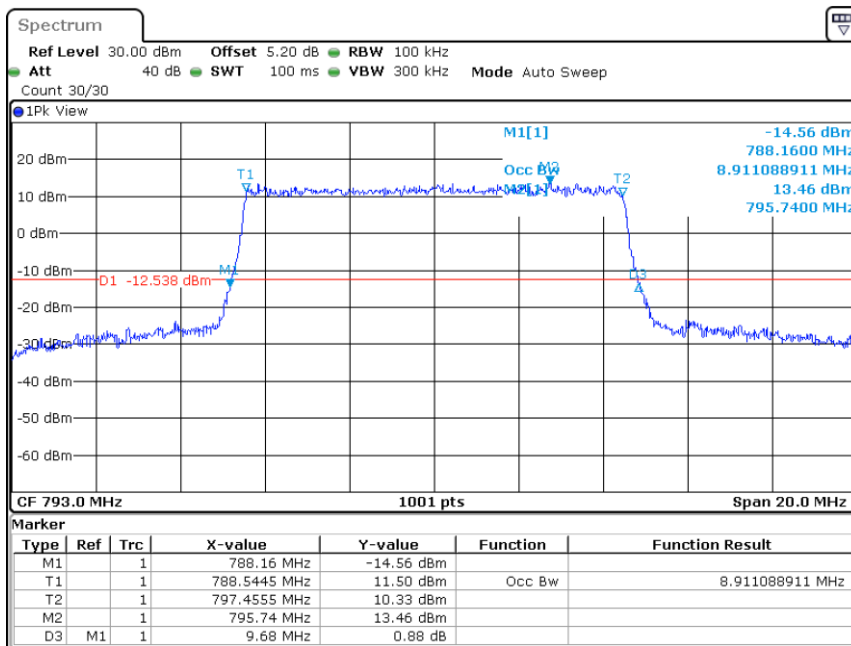
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Band14-10MHz-256QAM-23330-50RB#0-8.931



Date: 5.MAY.2021 04:22:24

Band14-10MHz-16QAM-23330-50RB#0-8.911



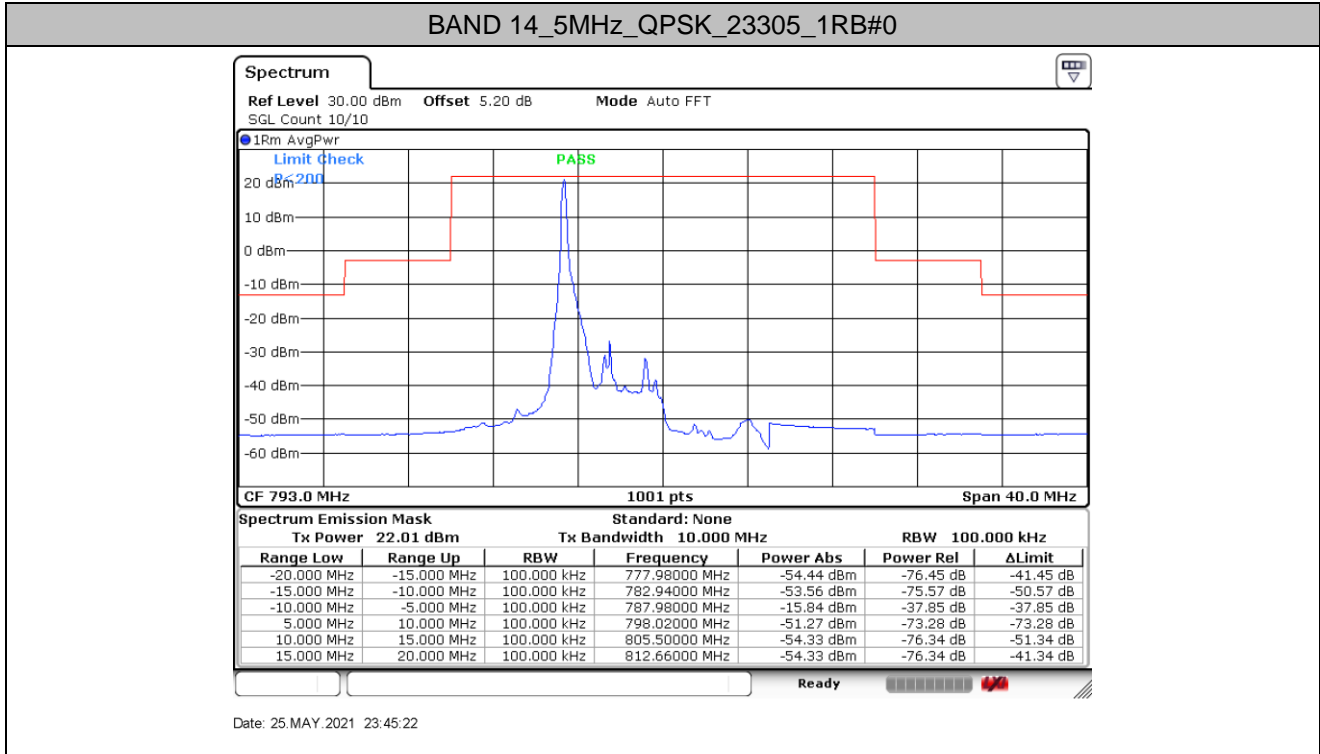
Date: 17.MAY.2021 01:12:13



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5. Emission Mask

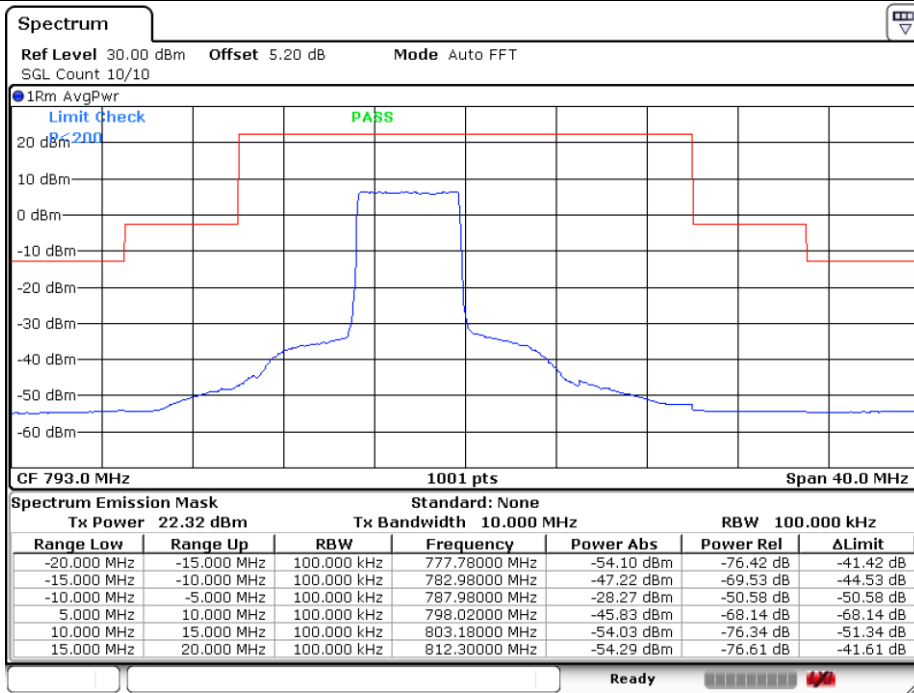
5.1. Test Plots



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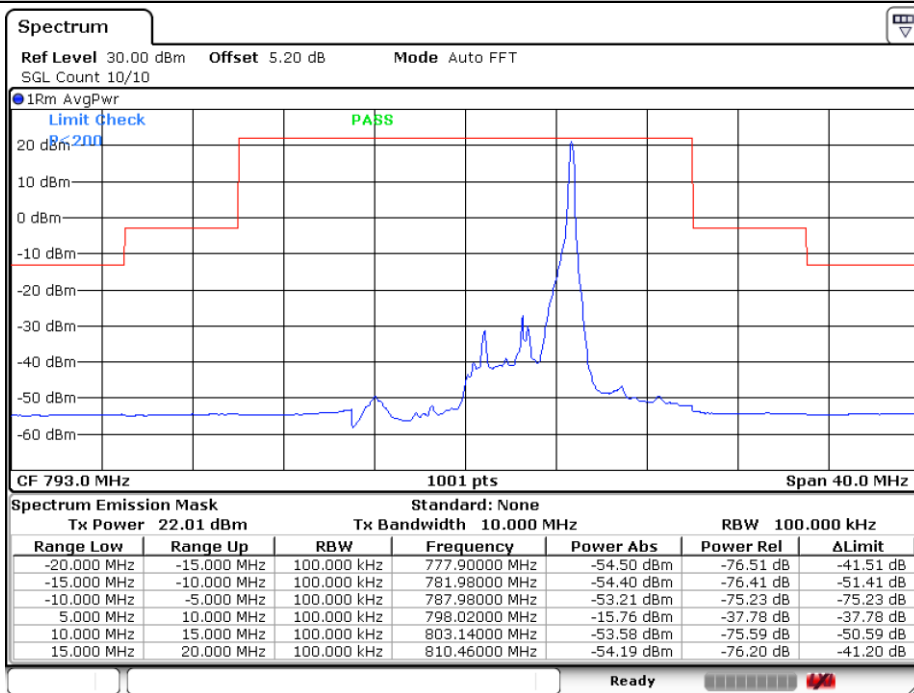
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BAND 14_5MHz_QPSK_23305_25RB#0



Date: 25.MAY.2021 23:43:43

BAND 14_5MHz_QPSK_23355_1RB#24

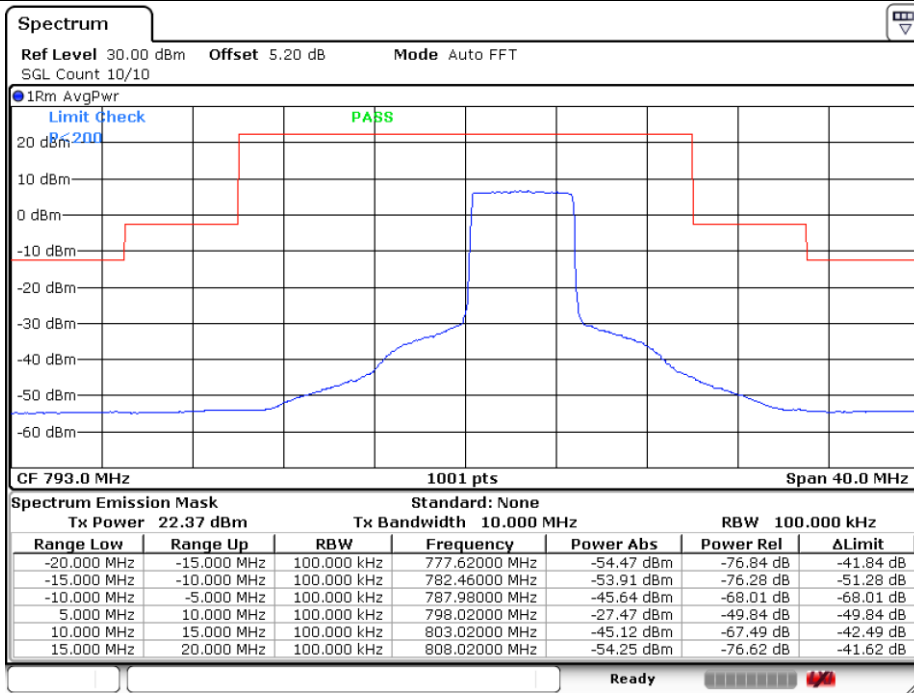


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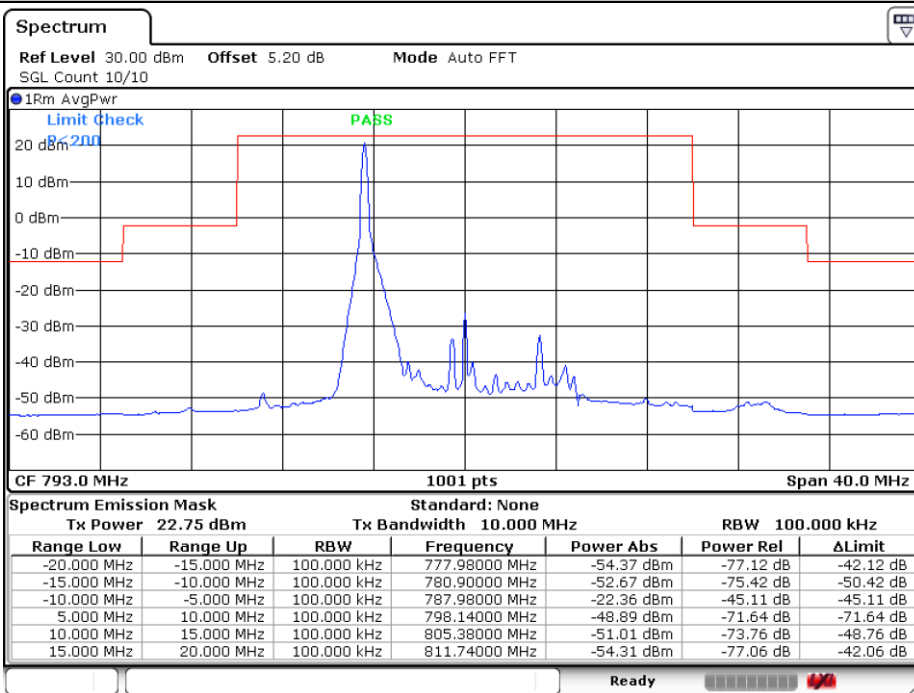
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BAND 14_5MHz_QPSK_23355_25RB#0



Date: 25.MAY.2021 23:56:53

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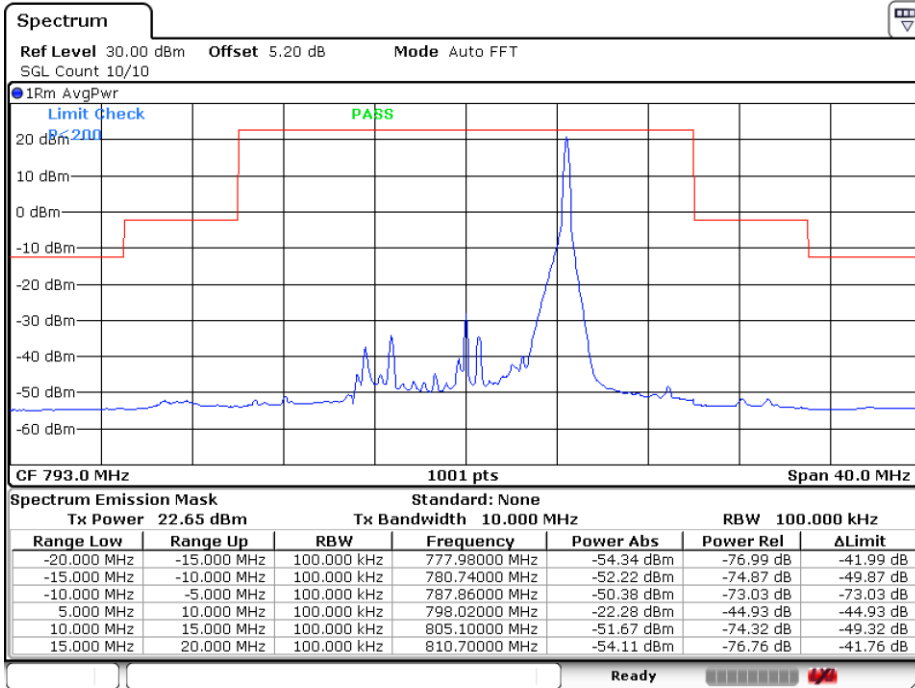


Date: 25.MAY.2021 23:36:34



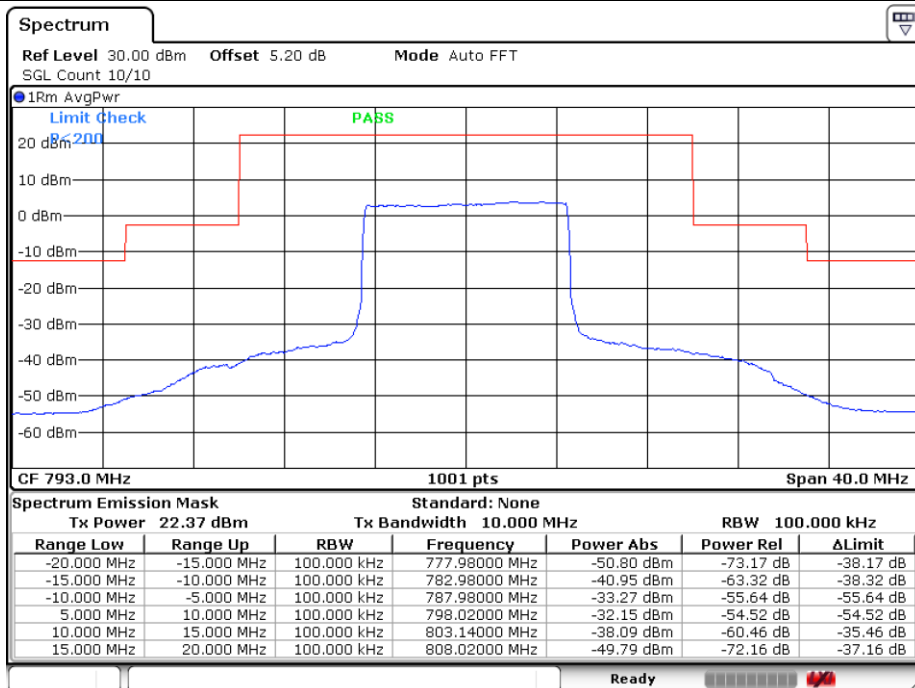
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BAND 14_10MHz_QPSK_23330_1RB#49



Date: 25.MAY.2021 23:39:43

BAND 14_10MHz_QPSK_23330_50RB#0



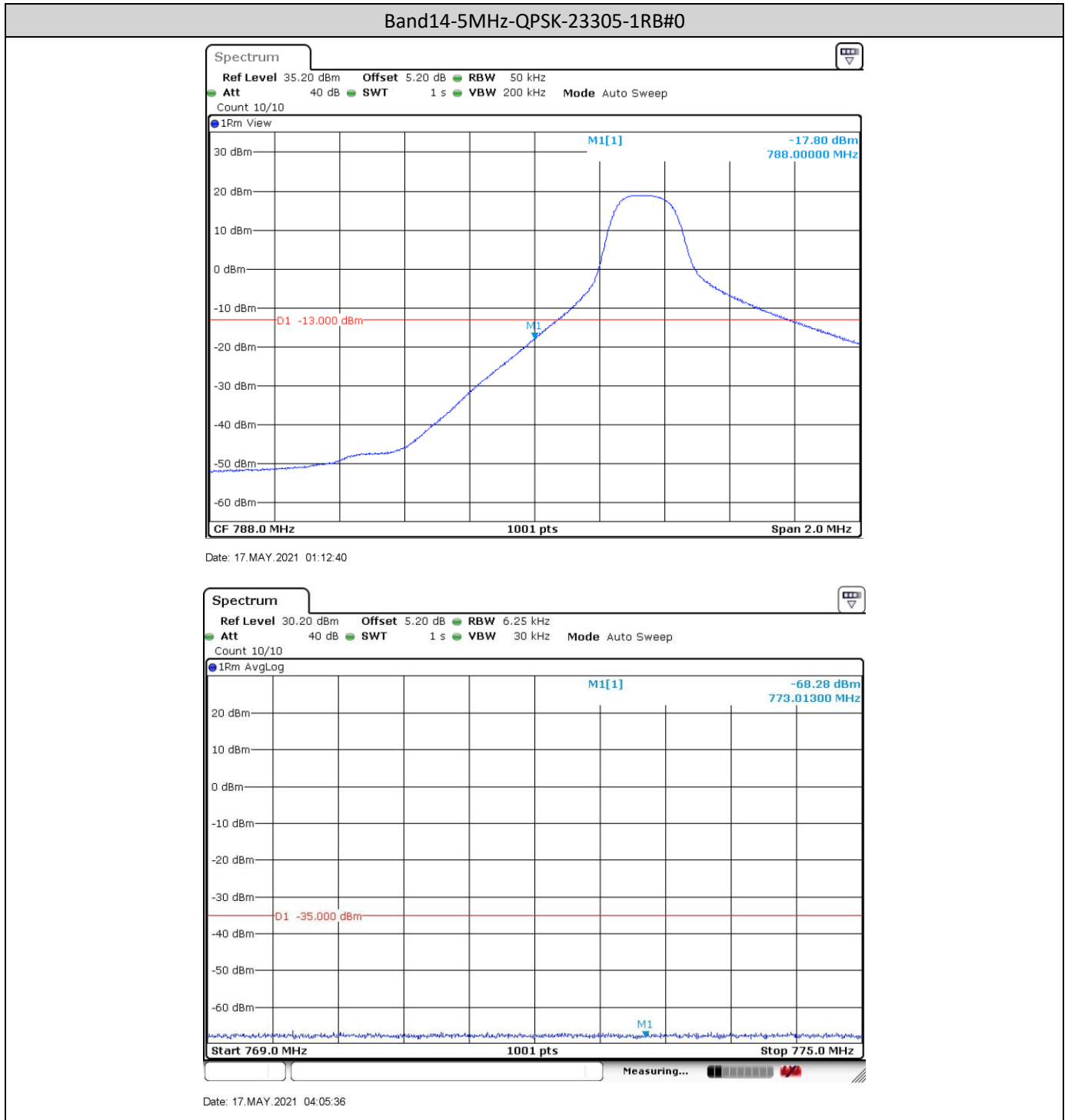
Date: 25.MAY.2021 23:40:08



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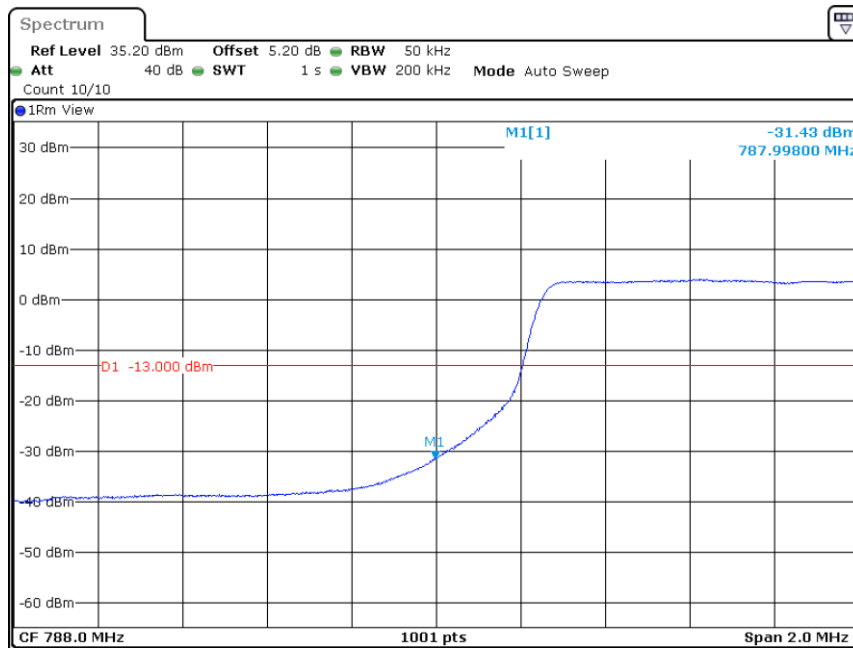
6. Band Edge Compliance

6.1. Test Plots

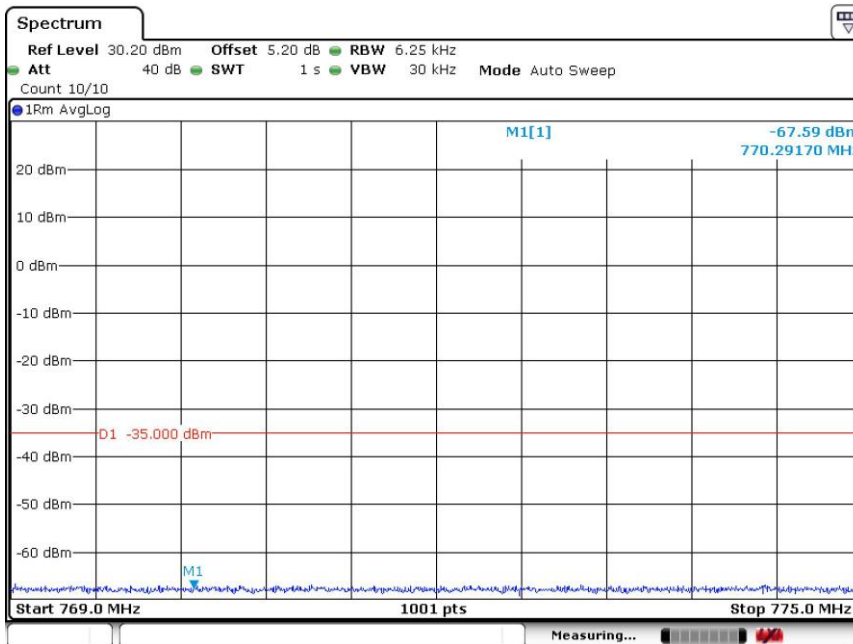


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Band14-5MHz-QPSK-23305-25RB#0



Date: 17.MAY.2021 01:13:21

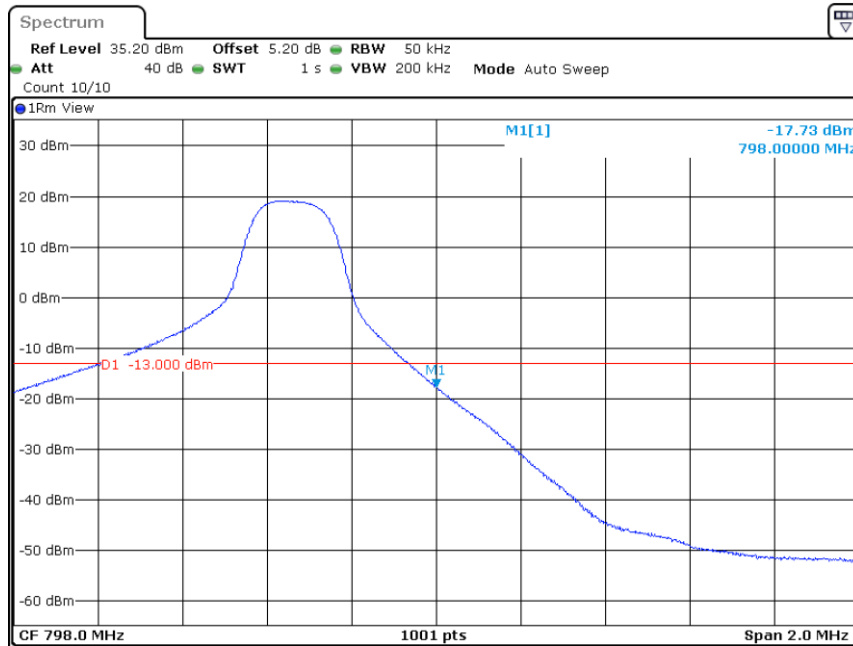


Date: 17.MAY.2021 04:07:00

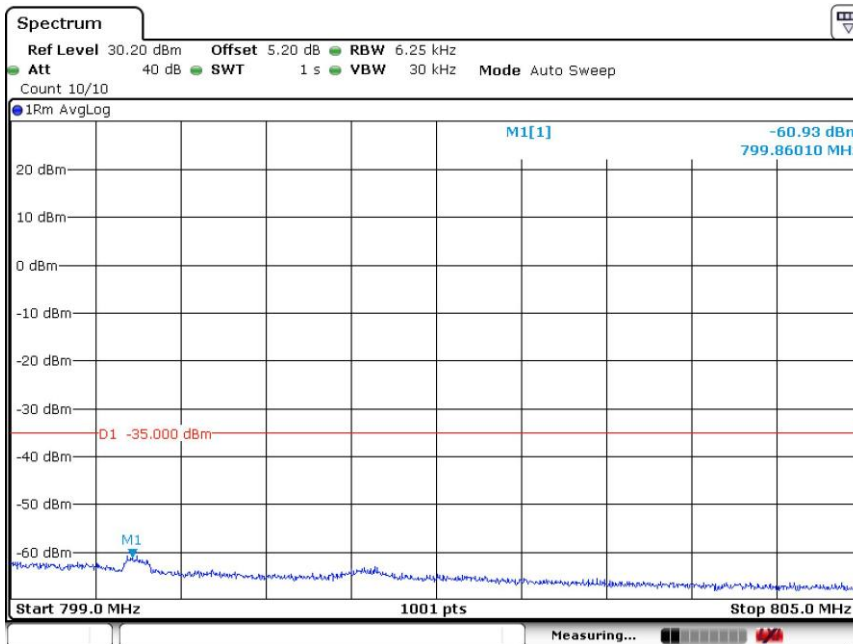


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Band14-5MHz-QPSK-23355-1RB#24



Date: 17.MAY.2021 01:14:06



Date: 17.MAY.2021 04:15:09

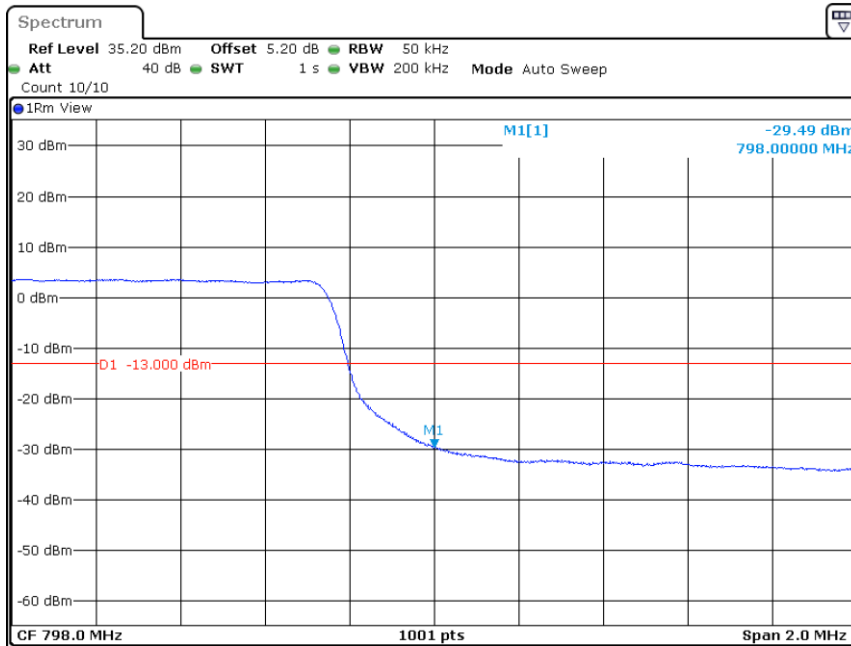


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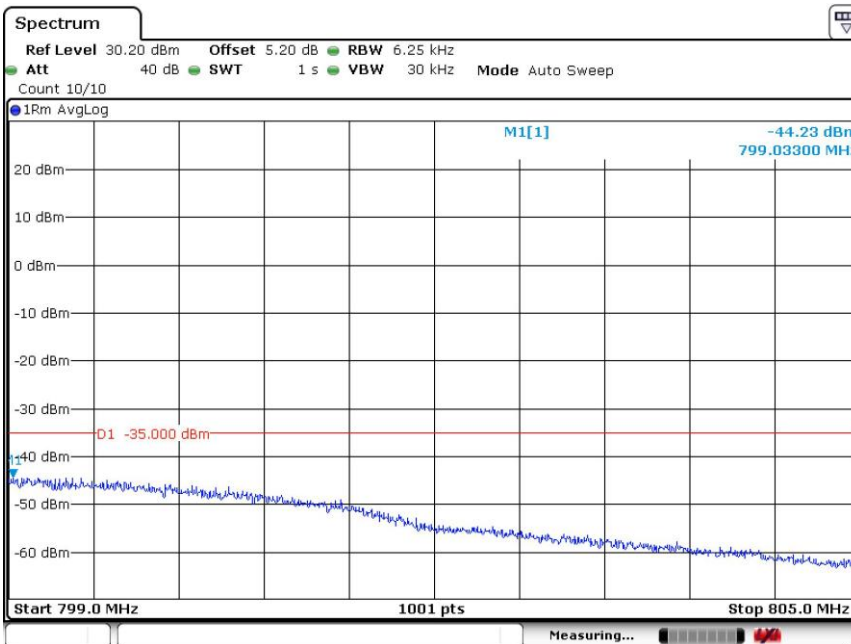
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Band14-5MHz-QPSK-23355-25RB#0



Date: 17.MAY.2021 01:14:47



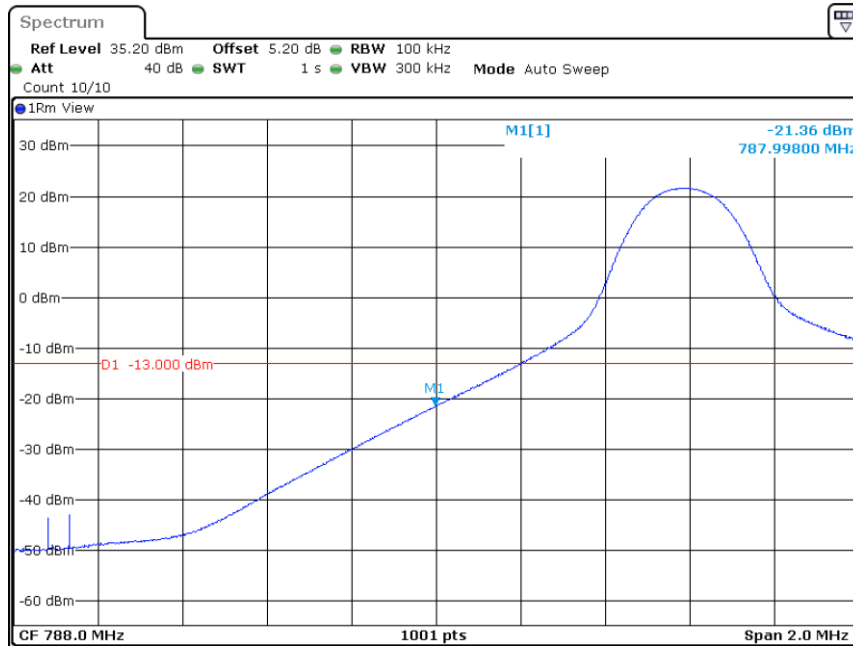
Date: 17.MAY.2021 04:16:13



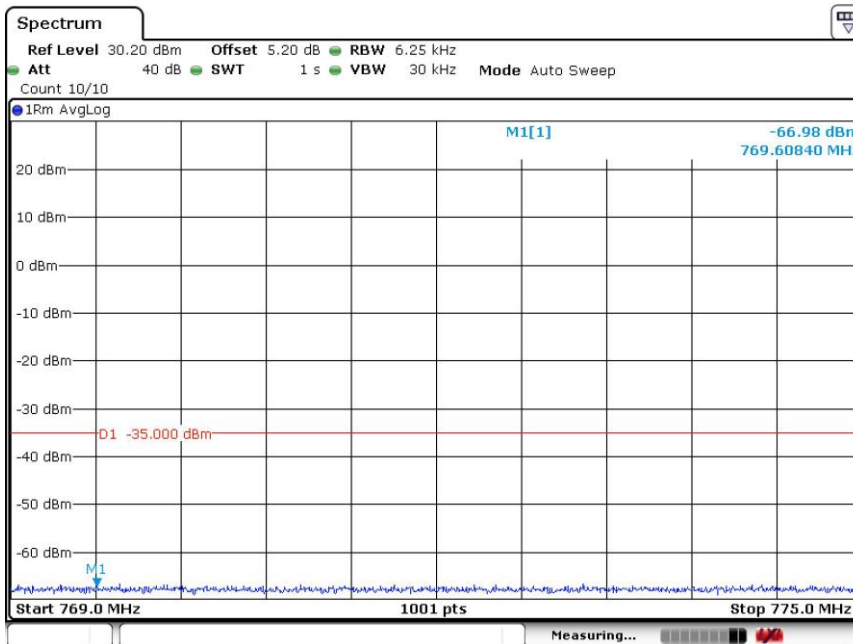
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Band14-10MHz-QPSK-23330_Left-1RB#0



Date: 17.MAY.2021 01:15:34



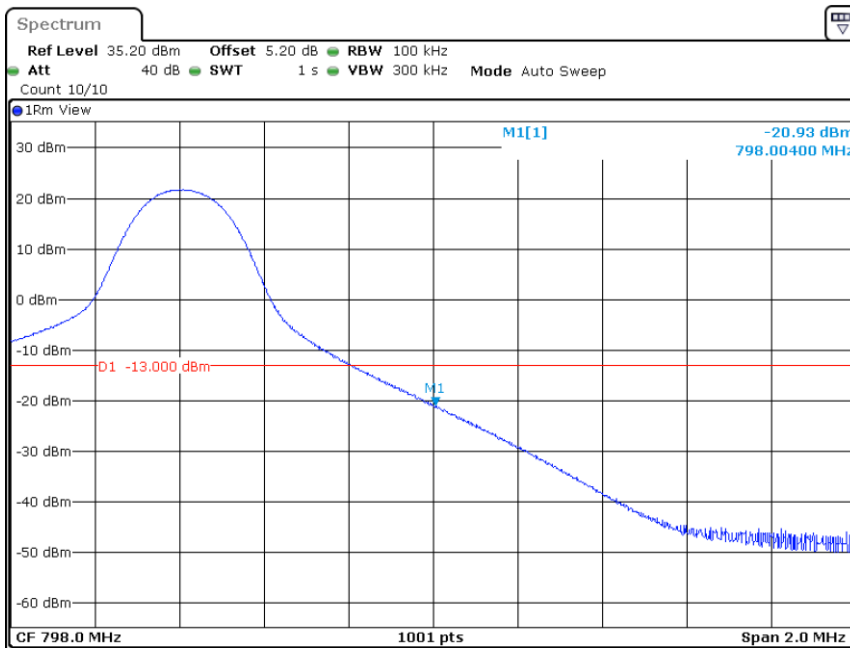
Date: 17.MAY.2021 04:08:56



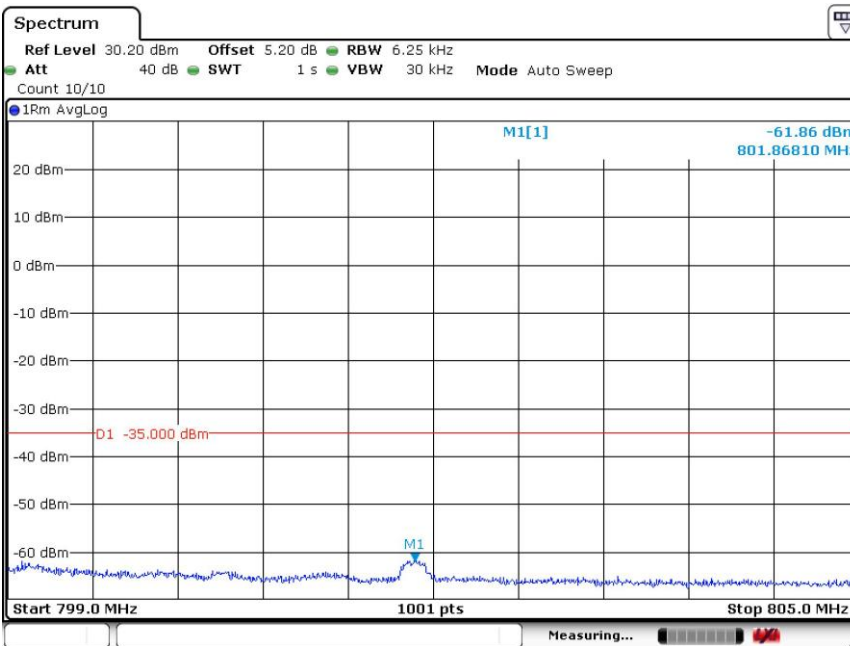
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Band14-10MHz-QPSK-23330_Right-1RB#49



Date: 17.MAY.2021 01:16:18



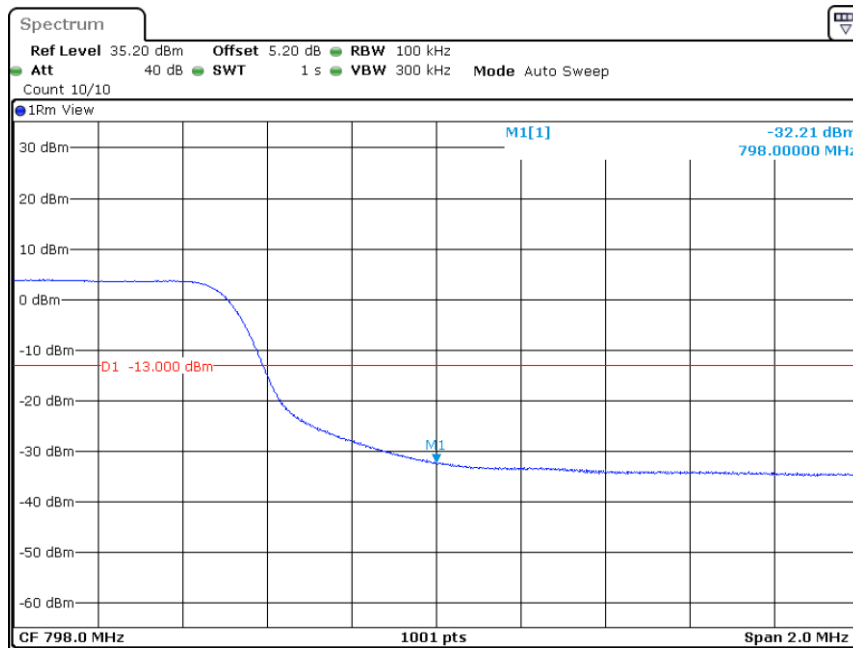
Date: 17.MAY.2021 04:10:46



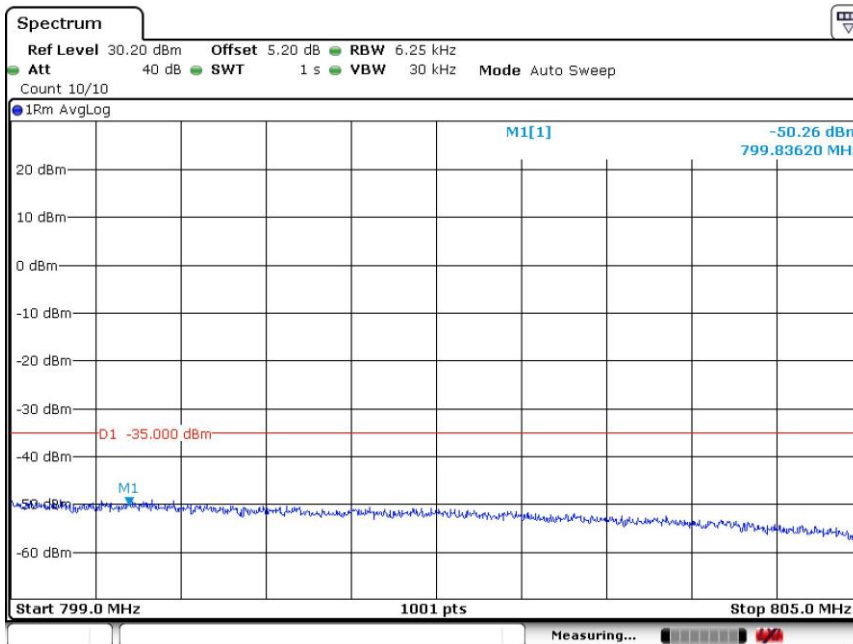
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Band14-10MHz-QPSK-23330_Right-50RB#0



Date: 17.MAY.2021 01:16:59



Date: 17.MAY.2021 04:11:43



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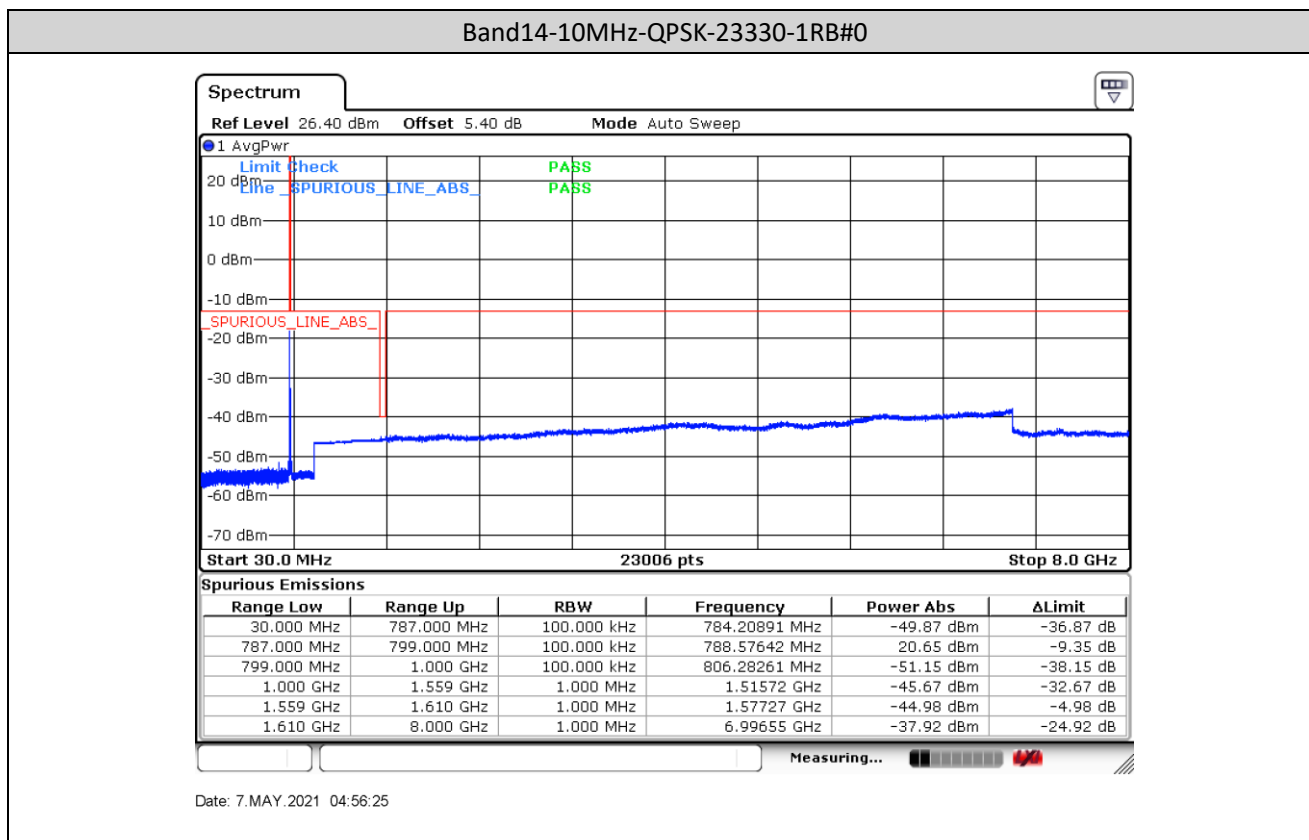
7. Spurious Emission at Antenna Terminal

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.

7.1. Test Plots



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8. Field Strength of Spurious Radiation

8.1. Test Band =Band 14

8.1.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
3	2187.5594	28.83	-57.73	-13.00	44.73	Horizontal
2	1577.1289	37.94	-51.42	-13.00	38.42	Horizontal
6	9588.7294	46.33	-52.01	-13.00	39.01	Horizontal
4	2983.6992	22.06	-60.89	-13.00	47.89	Horizontal
5	5712.2856	49.46	-57.60	-13.00	44.60	Horizontal
1	1115.5058	31.54	-57.53	-13.00	44.53	Horizontal



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8.2. Test Band = Band 14

8.2.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	40.79	-48.28	-13.00	35.28	Vertical
2	2187.4594	30.68	-55.88	-13.00	42.88	Vertical
3	2968.7984	23.62	-59.41	-13.00	46.41	Vertical
4	5547.4274	49.50	-58.40	-13.00	45.40	Vertical
5	7968.8484	53.18	-48.76	-13.00	35.76	Vertical
6	9577.8789	46.53	-51.93	-13.00	38.93	Vertical

emark:

- 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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9. Frequency Stability

9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	1.30	0.001639	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	1.30	0.001639	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	3.40	0.004288	±2.5	PASS

9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	2.40	0.003026	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	4.30	0.005422	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	1.60	0.002018	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.30	-0.001639	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	3.30	0.004161	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-3.00	-0.003783	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.10	-0.001387	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	3.50	0.004414	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	0.40	0.000504	±2.5	PASS



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