

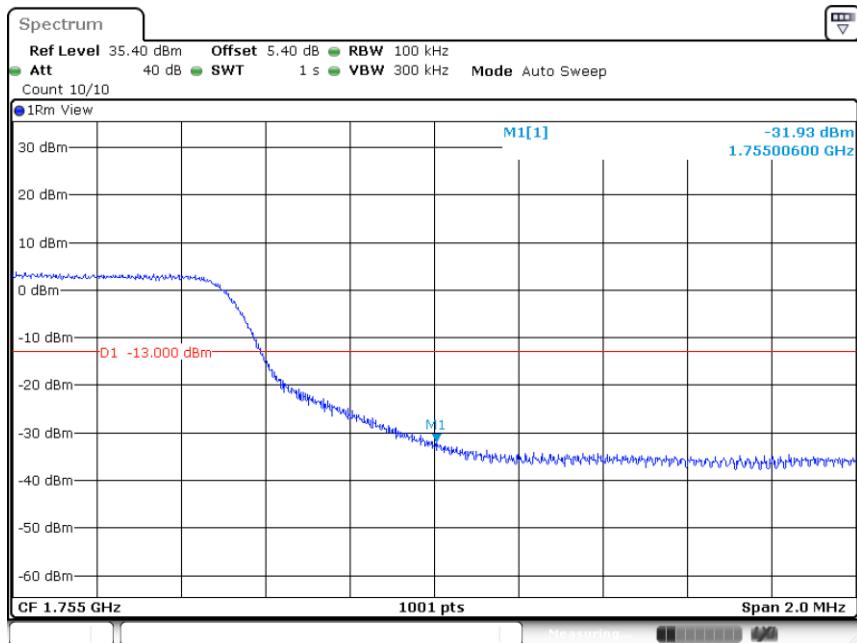
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## Band4-10MHz-64QAM-20350-50RB#0



Date: 13.APR.2021 23:30:14

## Band4-10MHz-16QAM-20000-1RB#0



Date: 13.APR.2021 12:27:33

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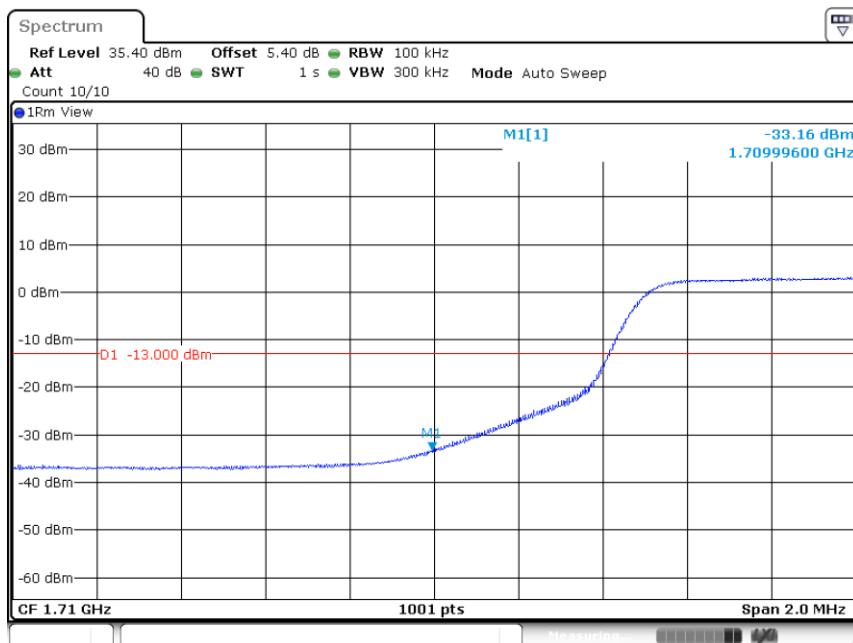
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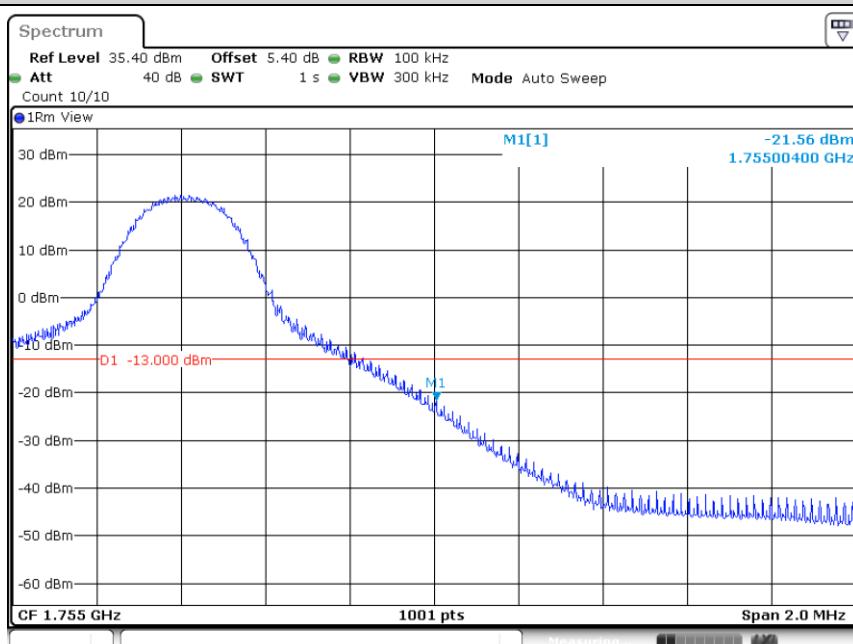
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## Band4-10MHz-16QAM-20000-50RB#0



Date: 13.APR.2021 12:28:14

## Band4-10MHz-16QAM-20350-1RB#49



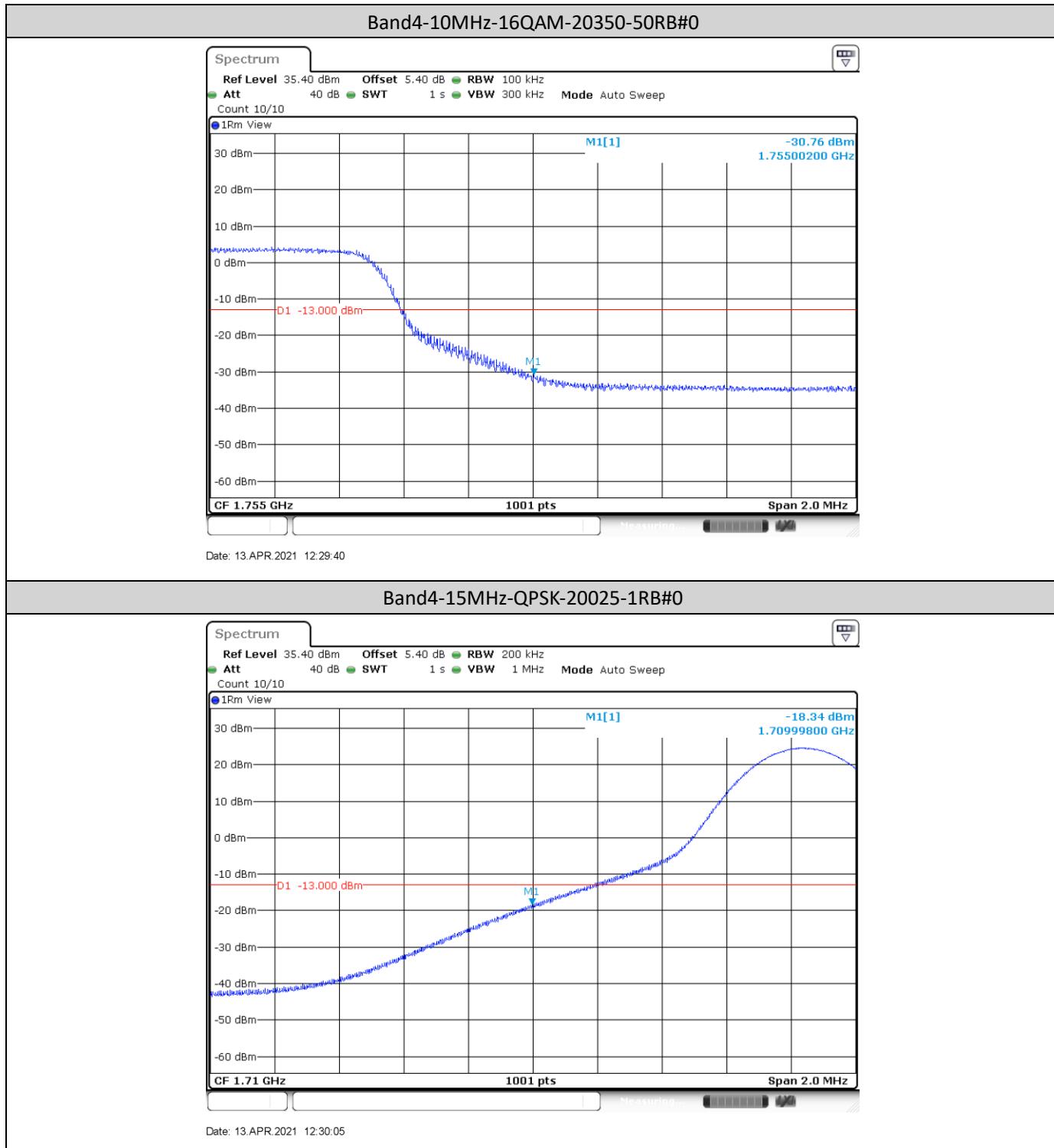
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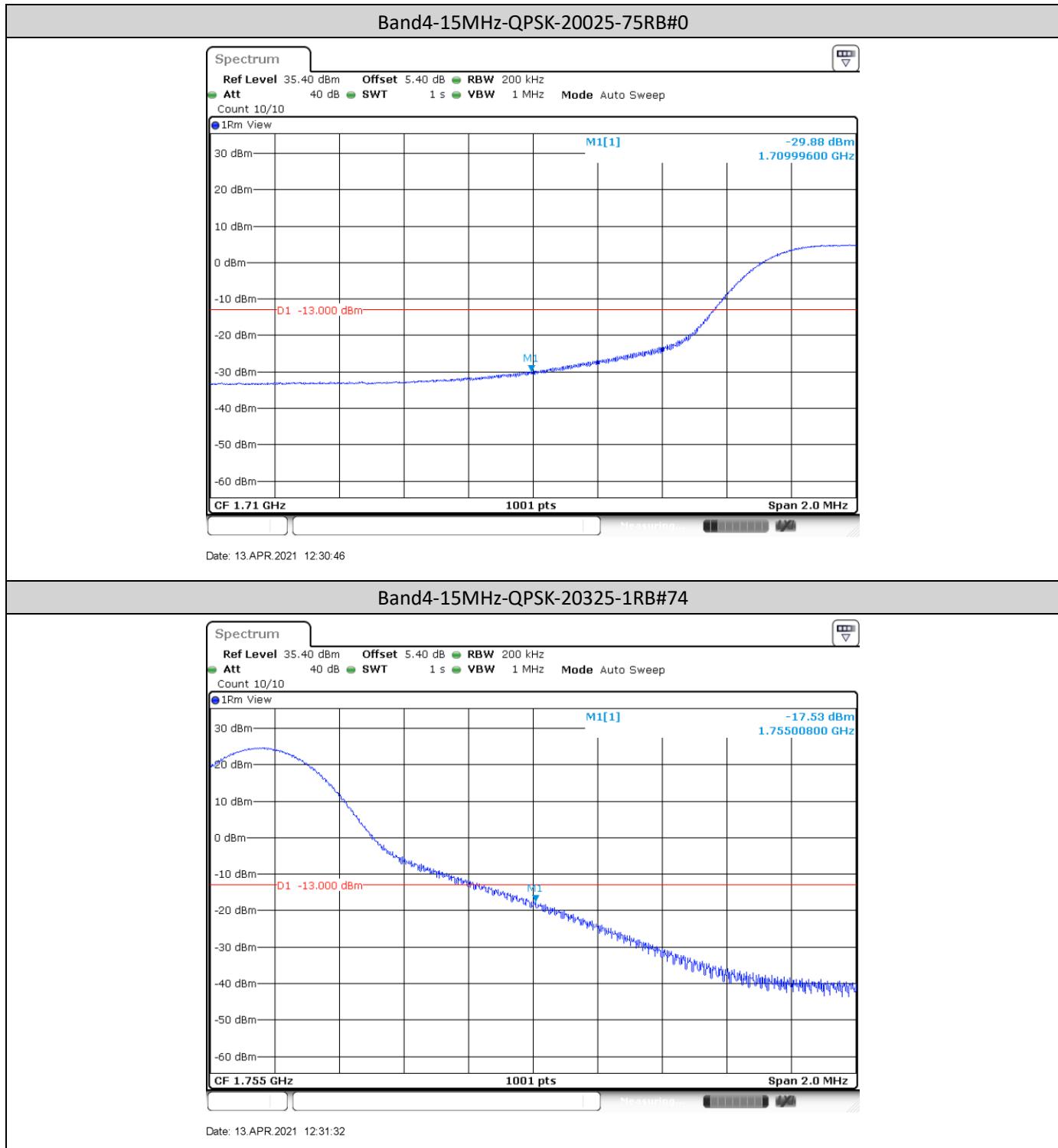
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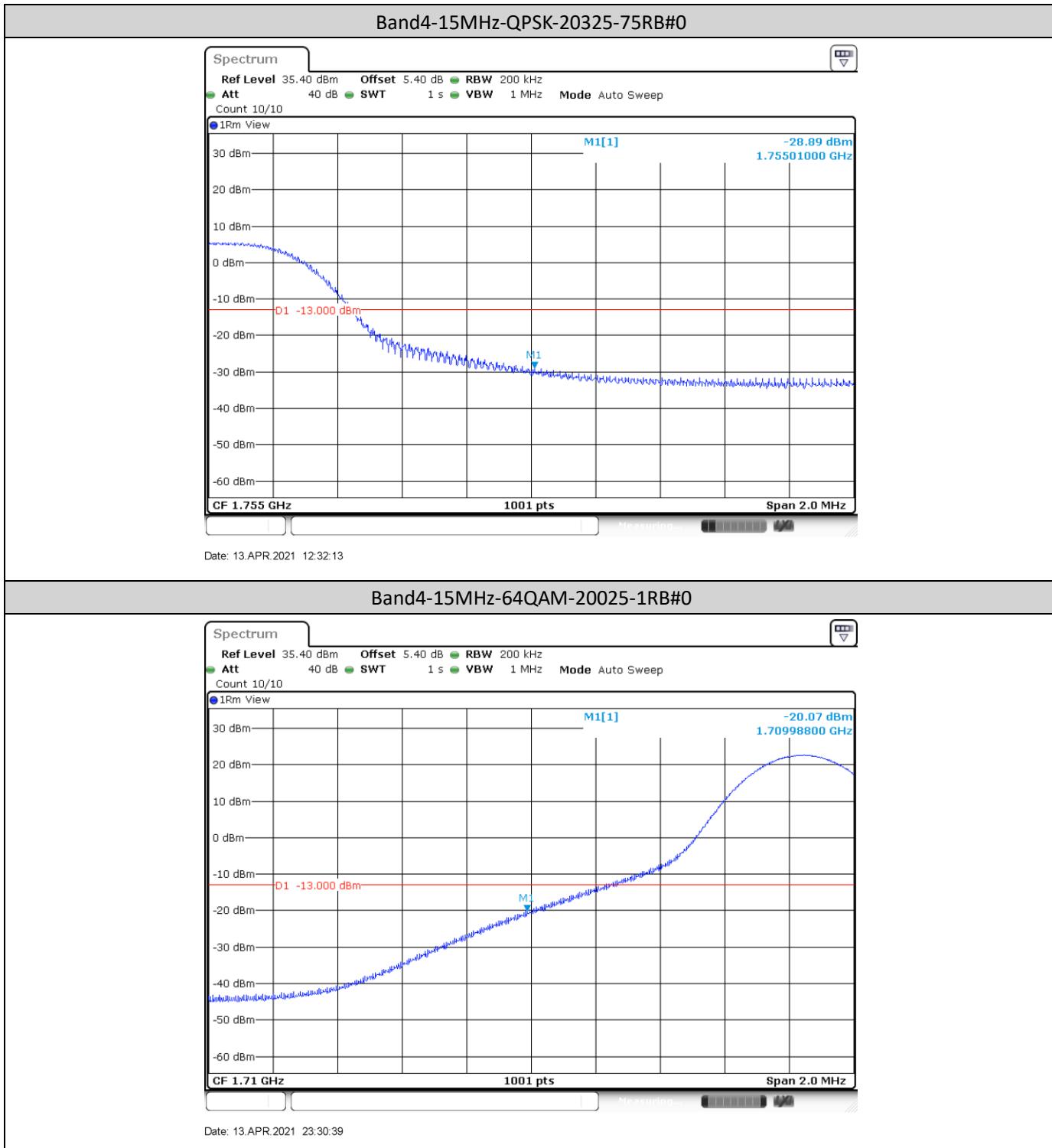


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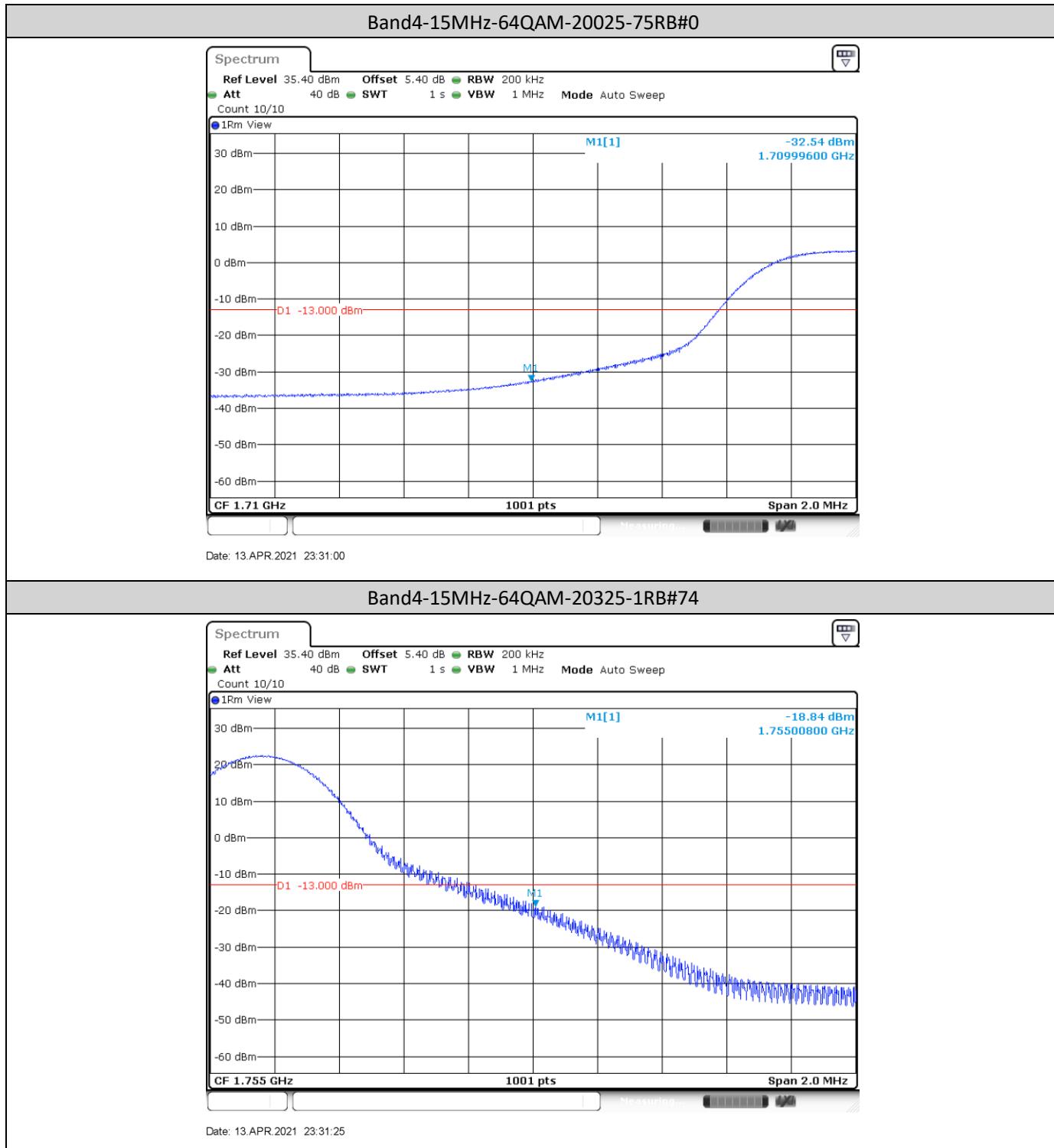
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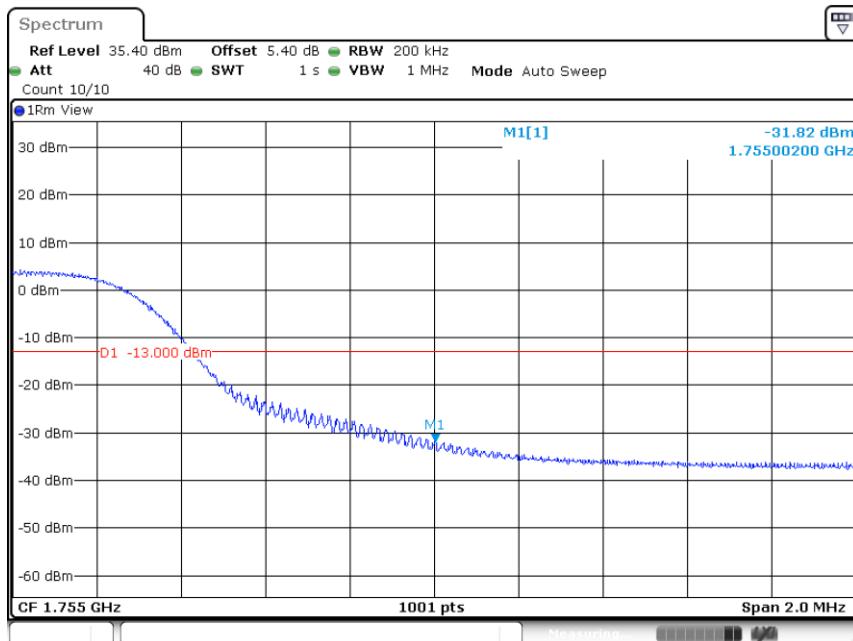


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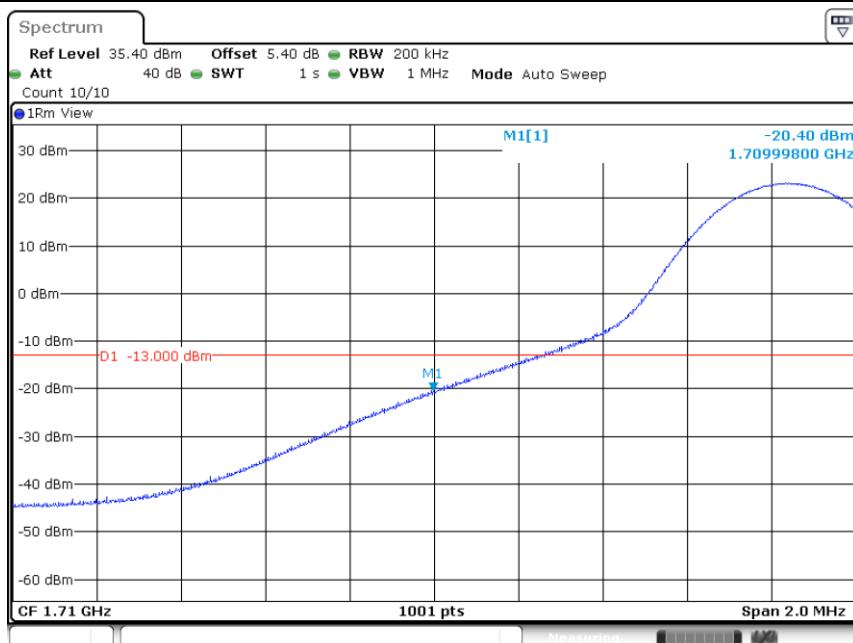


## Band4-15MHz-64QAM-20325-75RB#0



Date: 13.APR.2021 23:31:46

## Band4-15MHz-16QAM-20025-1RB#0



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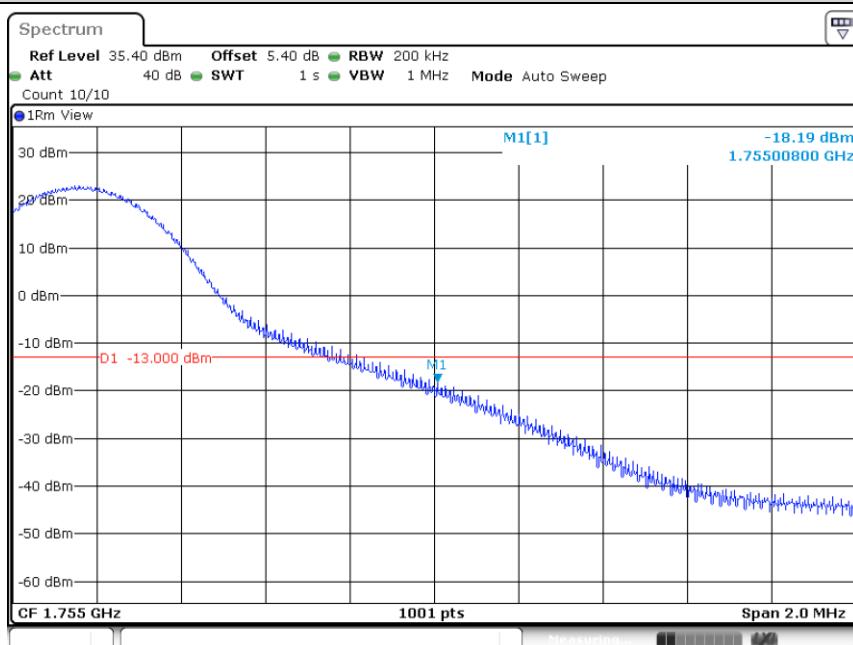
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## Band4-15MHz-16QAM-20025-75RB#0



Date: 13.APR.2021 12:31:08

## Band4-15MHz-16QAM-20325-1RB#74



Date: 13.APR.2021 12:31:53

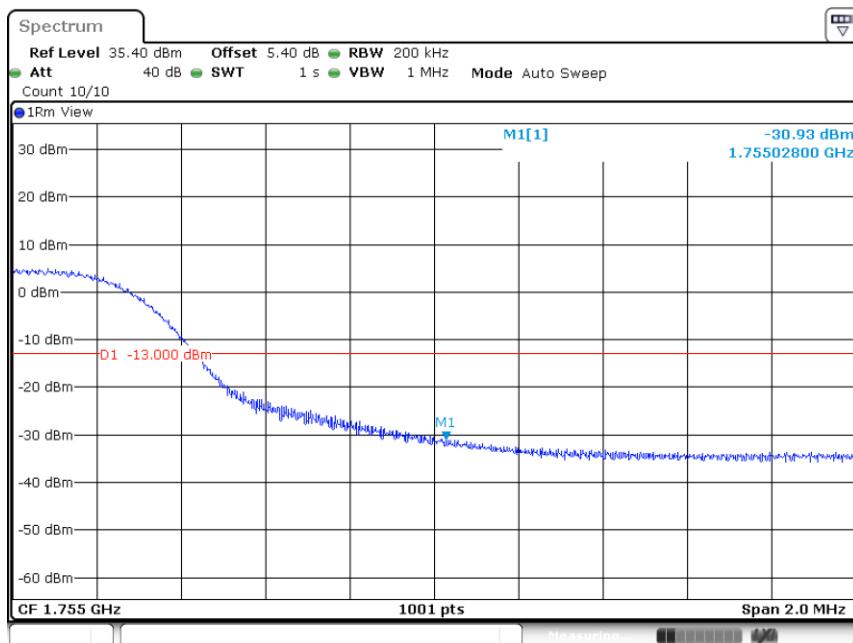
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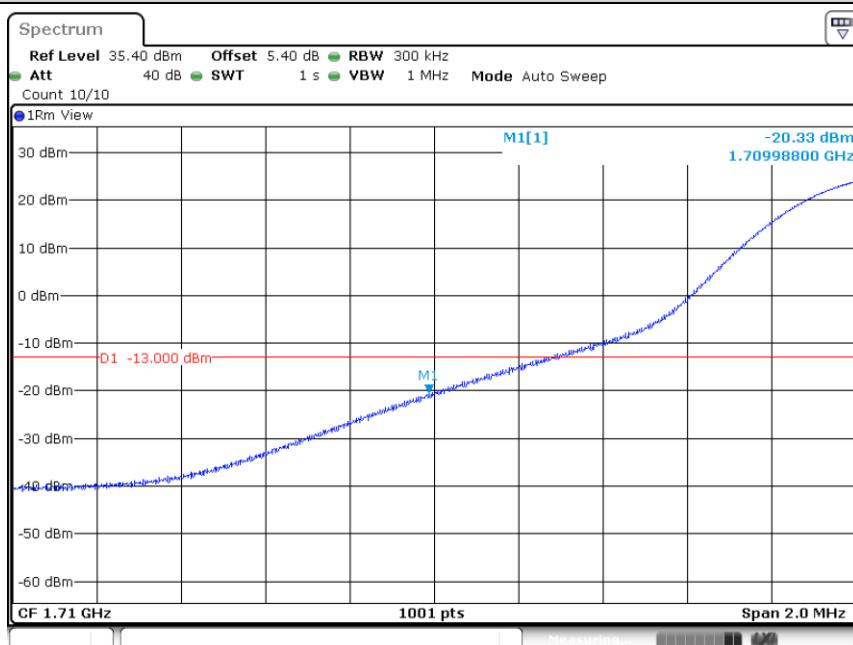
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## Band4-15MHz-16QAM-20325-75RB#0



Date: 13.APR.2021 12:32:34

## Band4-20MHz-QPSK-20050-1RB#0



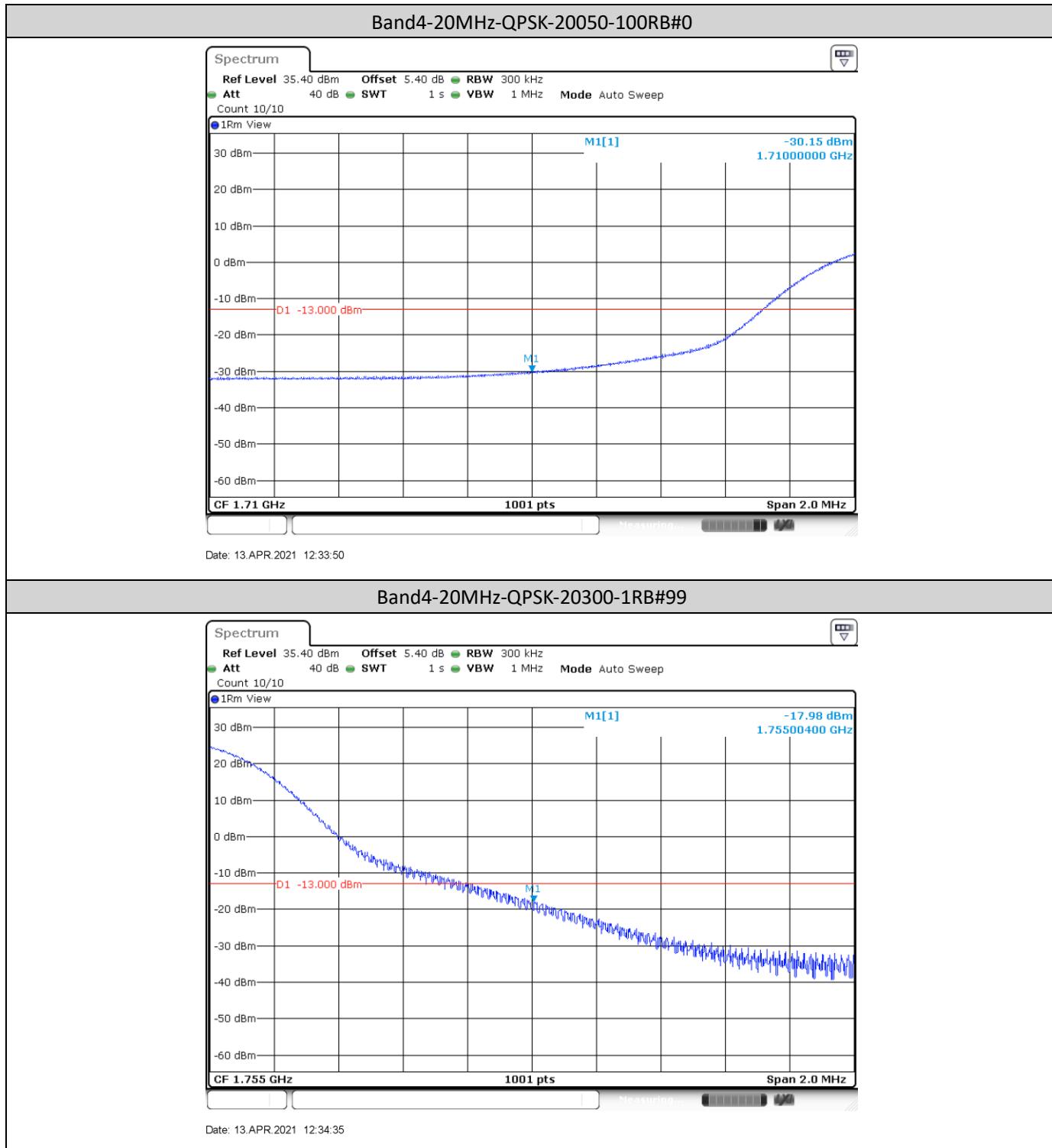
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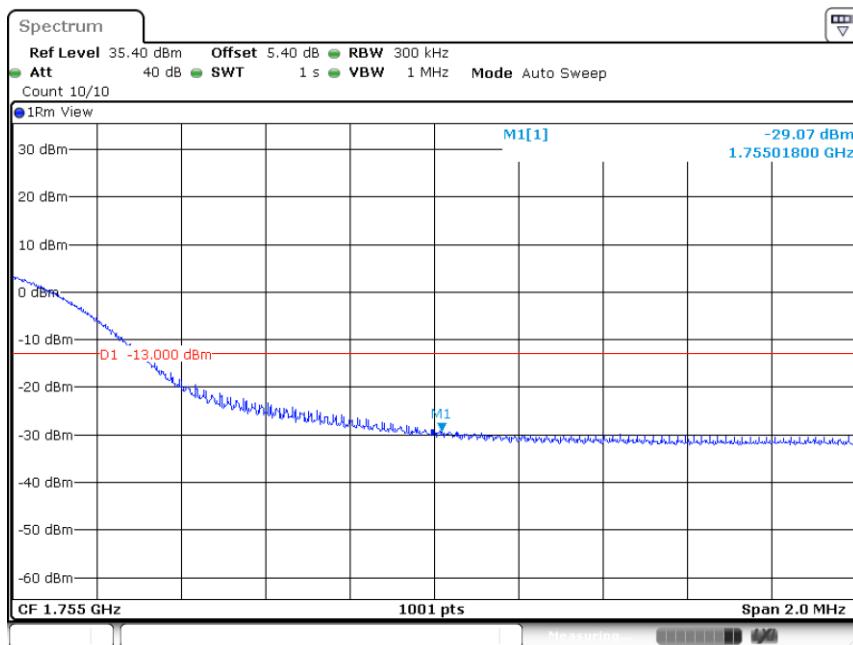
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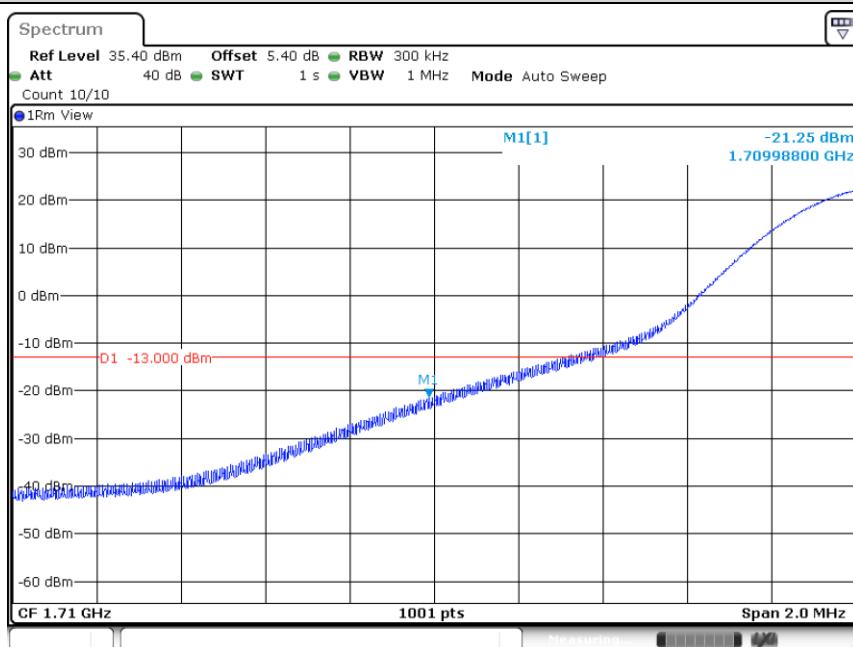
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## Band4-20MHz-QPSK-20300-100RB#0



Date: 13.APR.2021 12:35:16

## Band4-20MHz-64QAM-20050-1RB#0



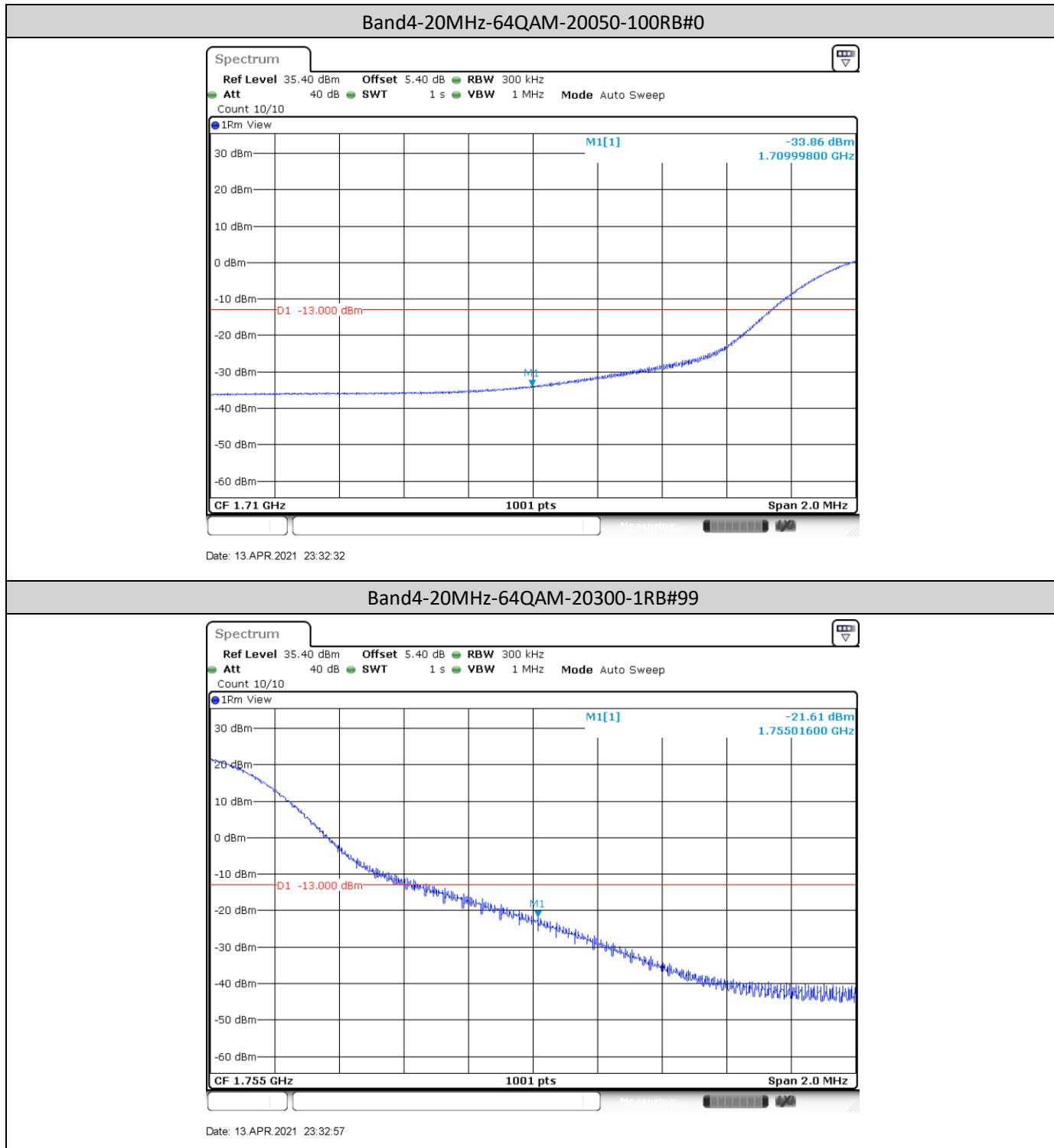
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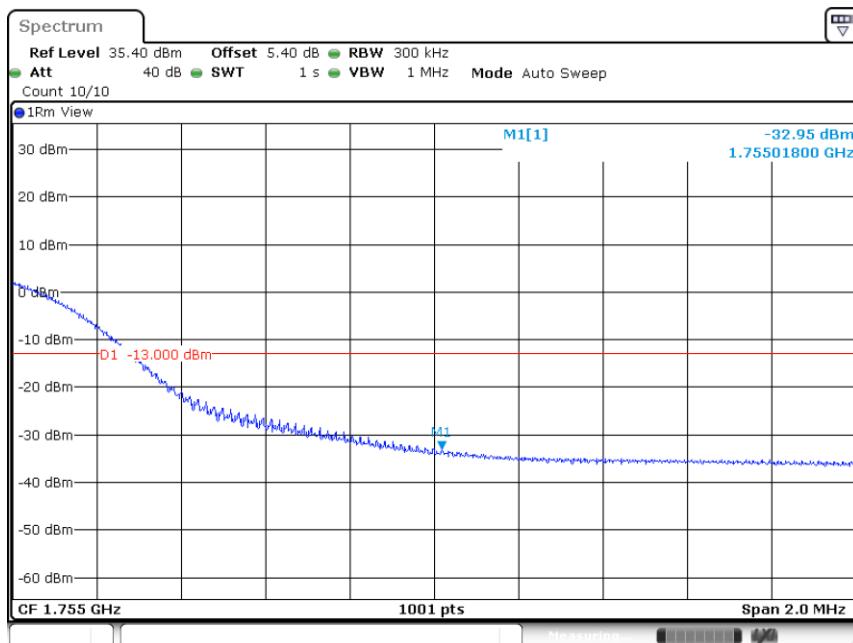
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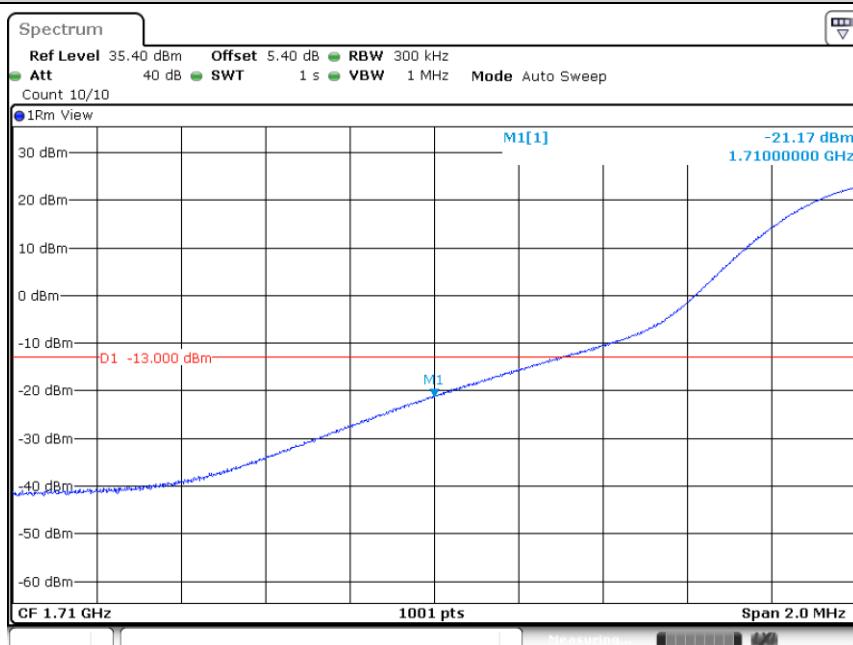
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## Band4-20MHz-64QAM-20300-100RB#0



Date: 13.APR.2021 23:33:17

## Band4-20MHz-16QAM-20050-1RB#0



Date: 13.APR.2021 12:33:20

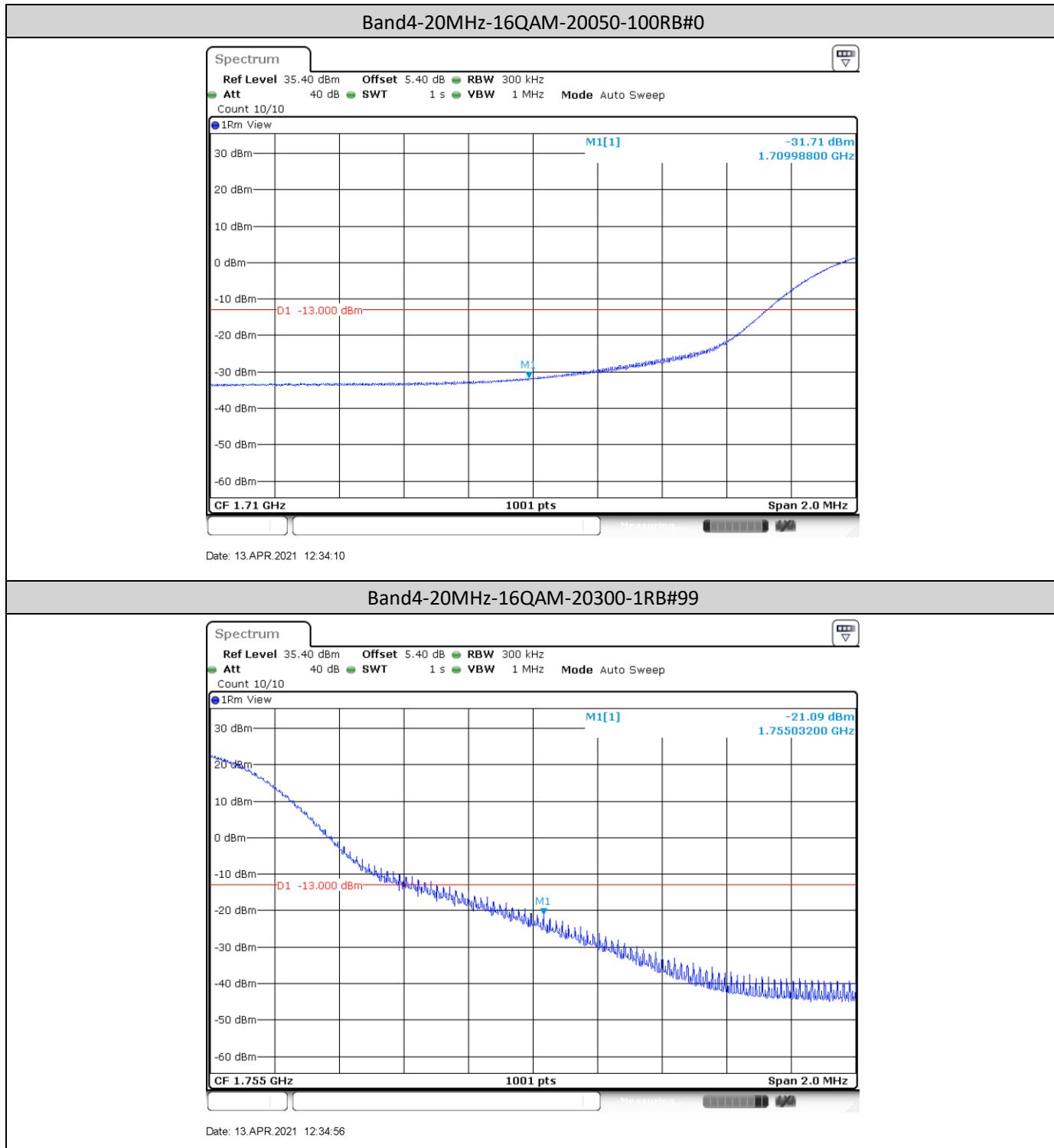
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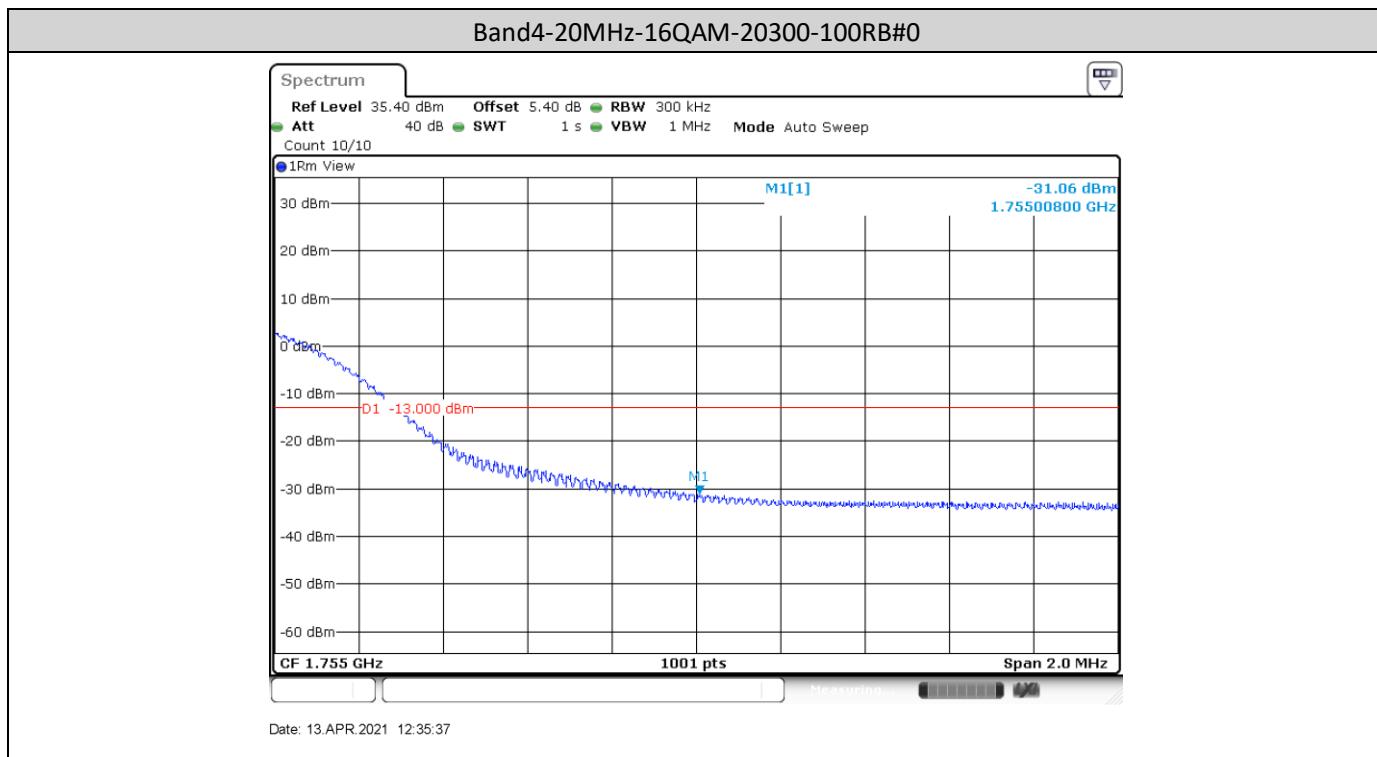
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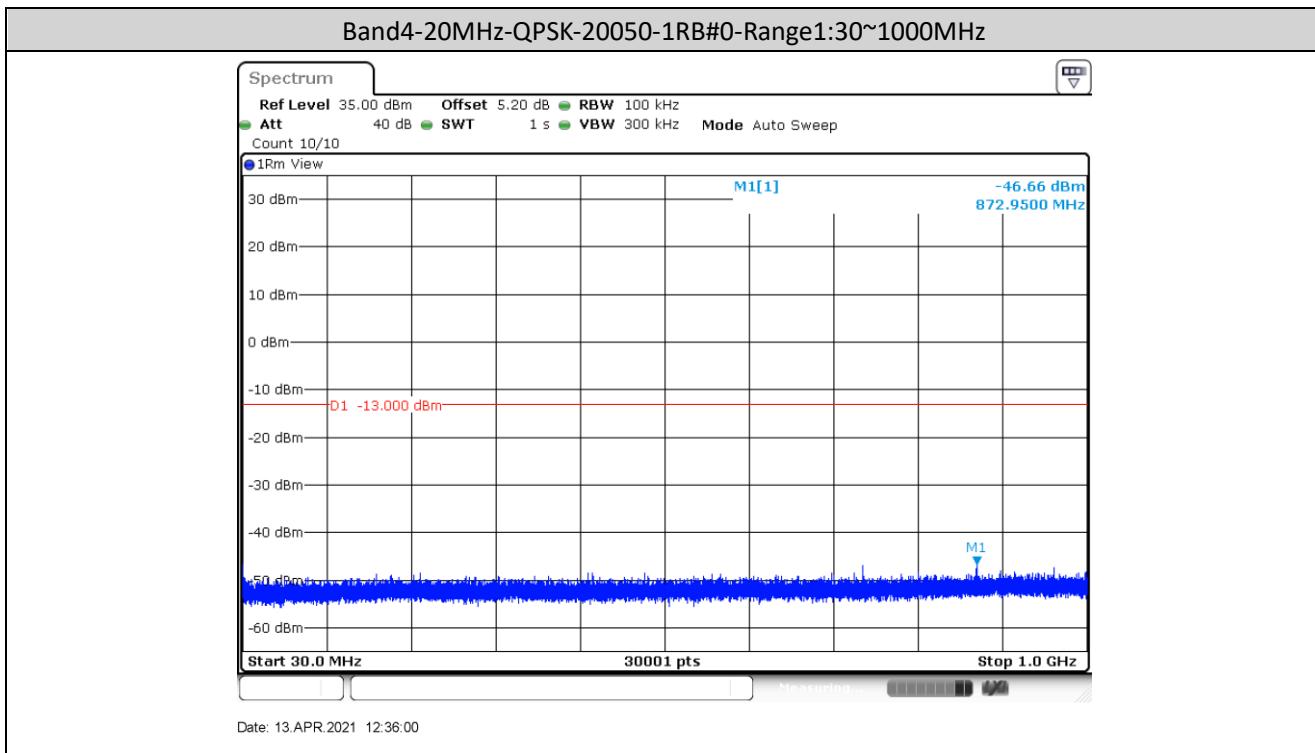
## 6. Spurious Emission at Antenna Terminal

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



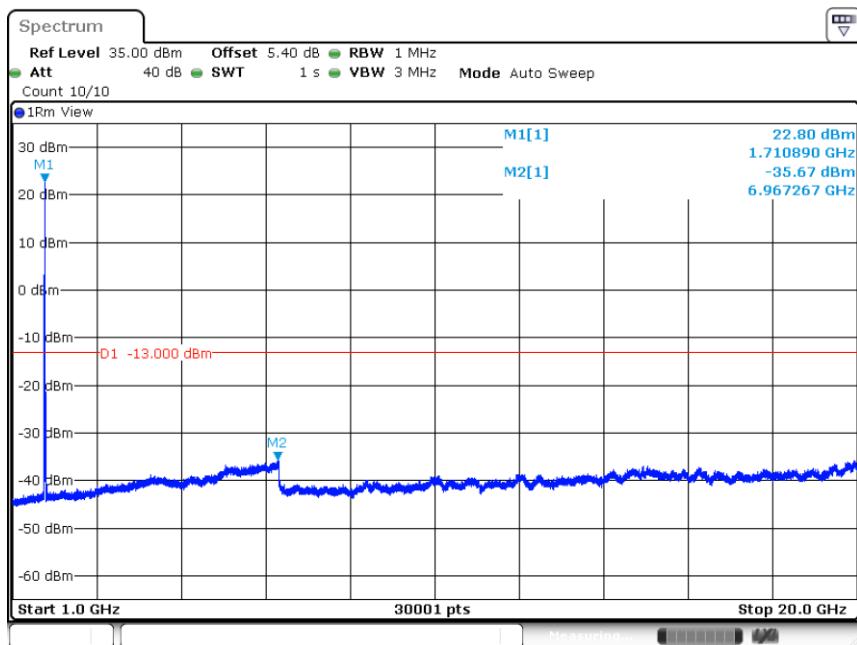
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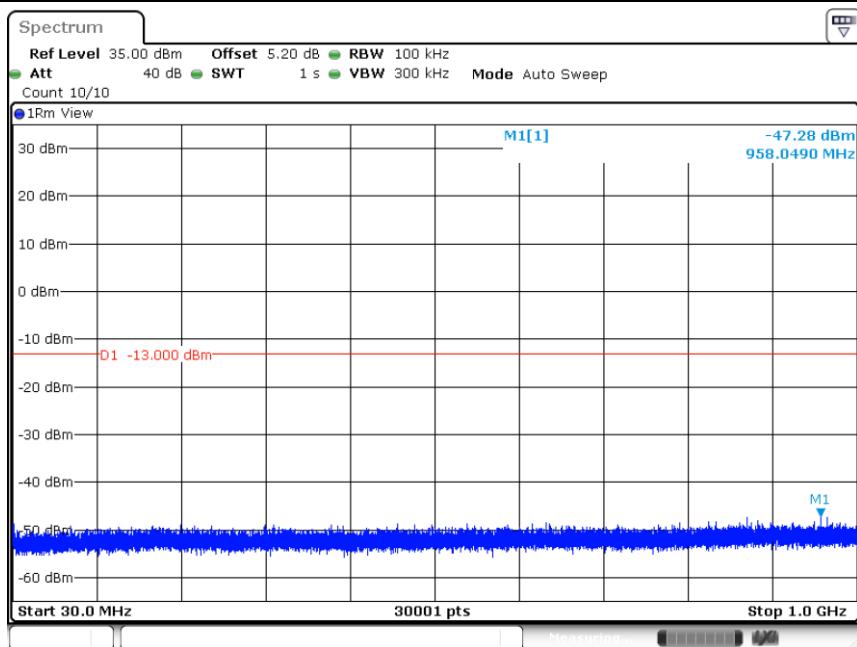
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## Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 12:36:16

## Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Date: 13.APR.2021 12:37:10

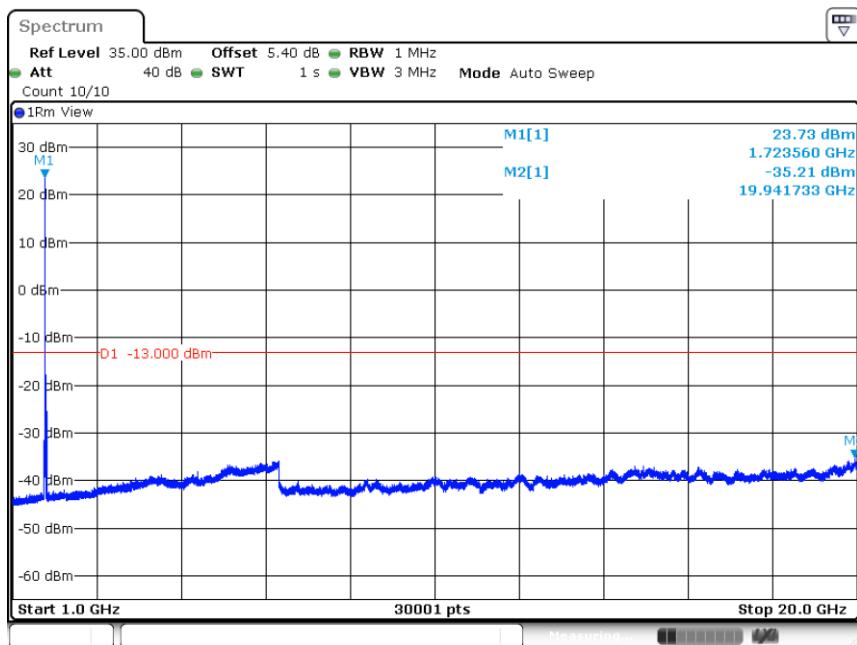
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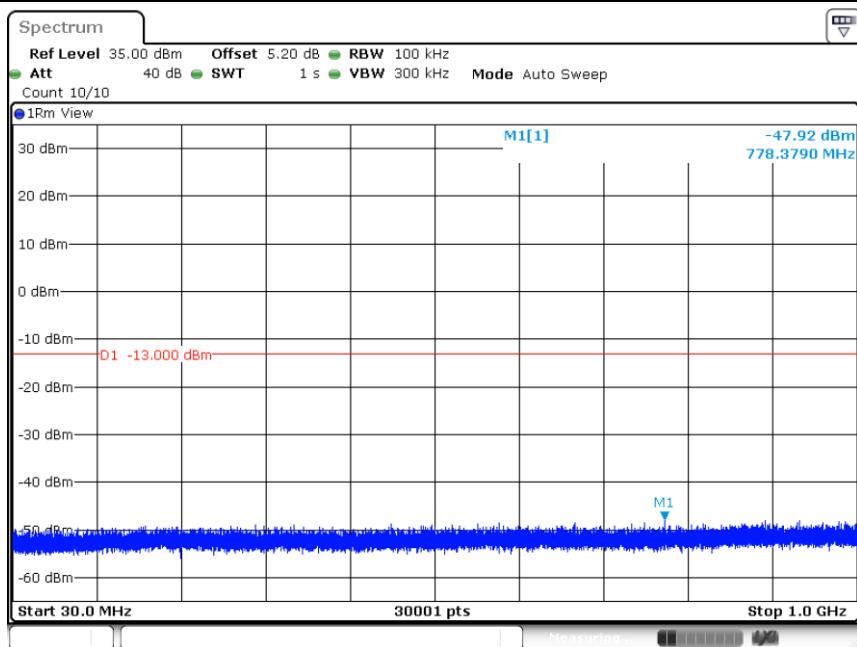
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## Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 12:37:27

## Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 13.APR.2021 12:38:21

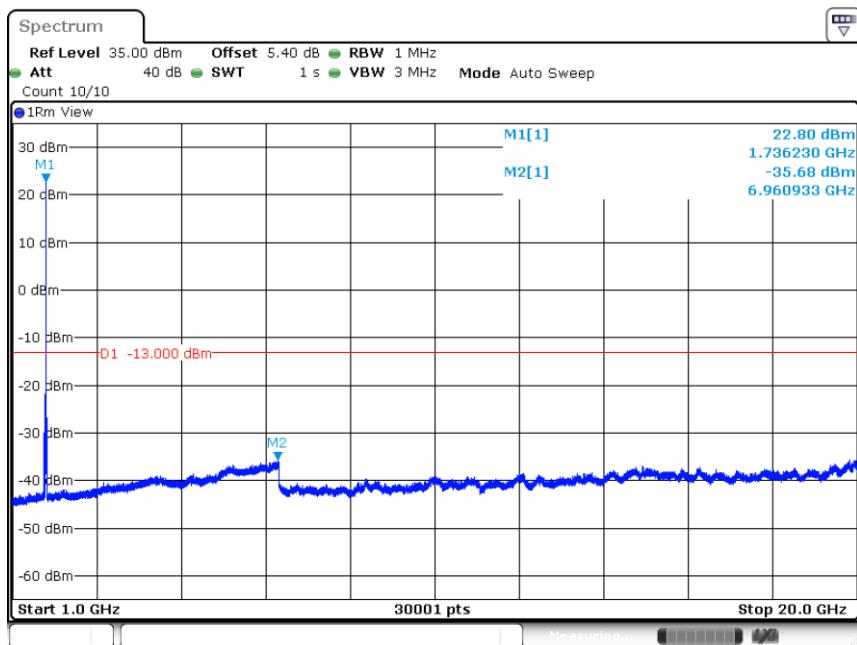
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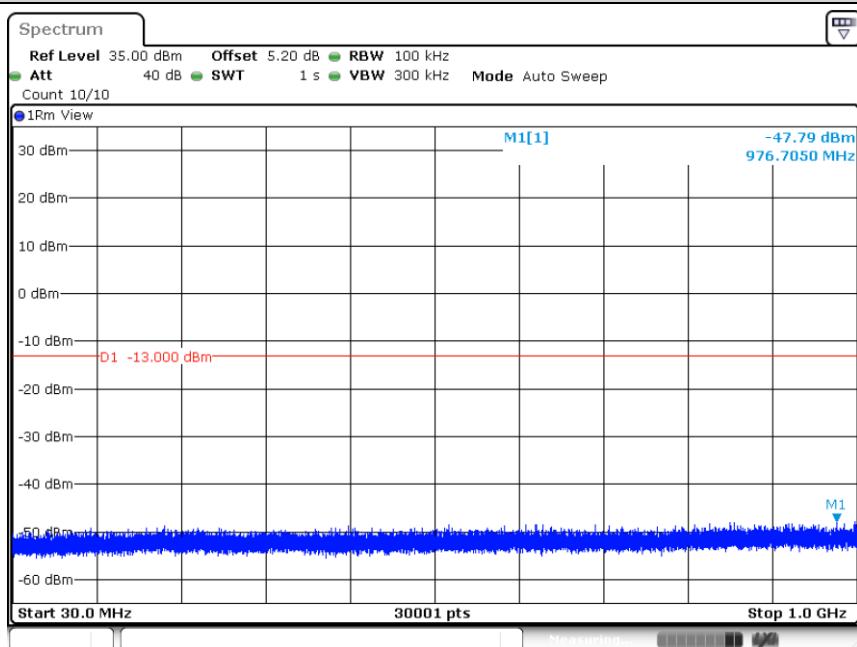
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## Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 12:38:37

## Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



Date: 13.APR.2021 23:33:41

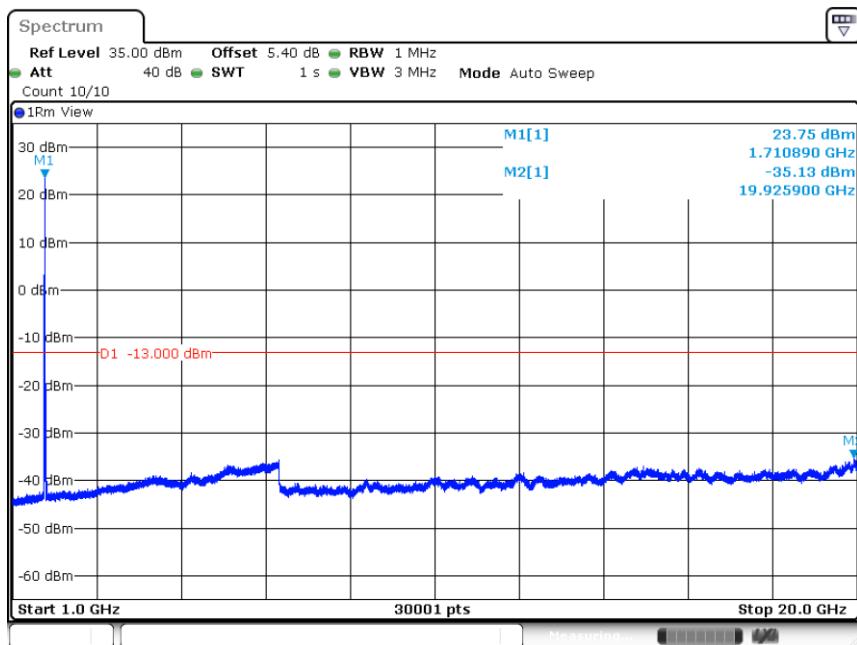
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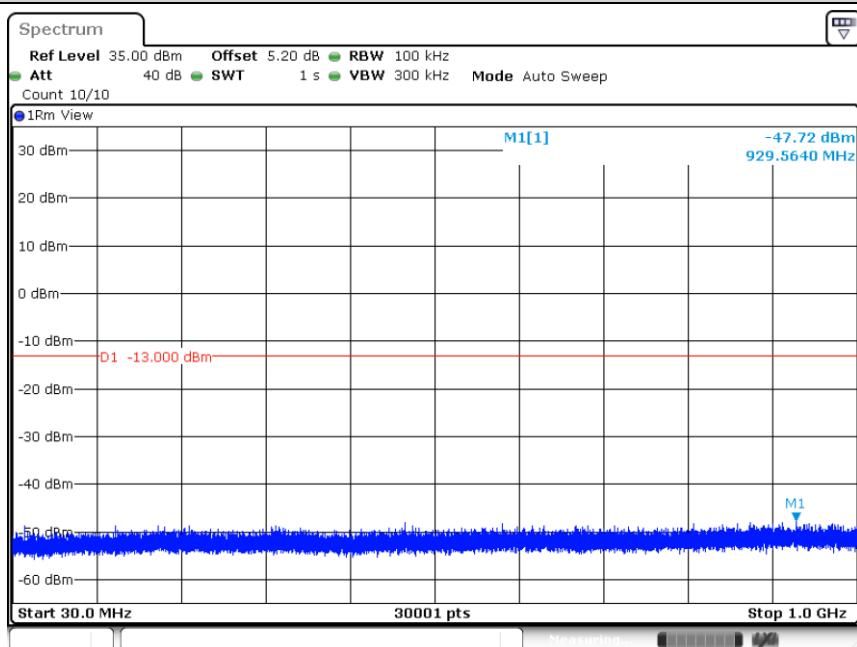
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## Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 23:33:57

## Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



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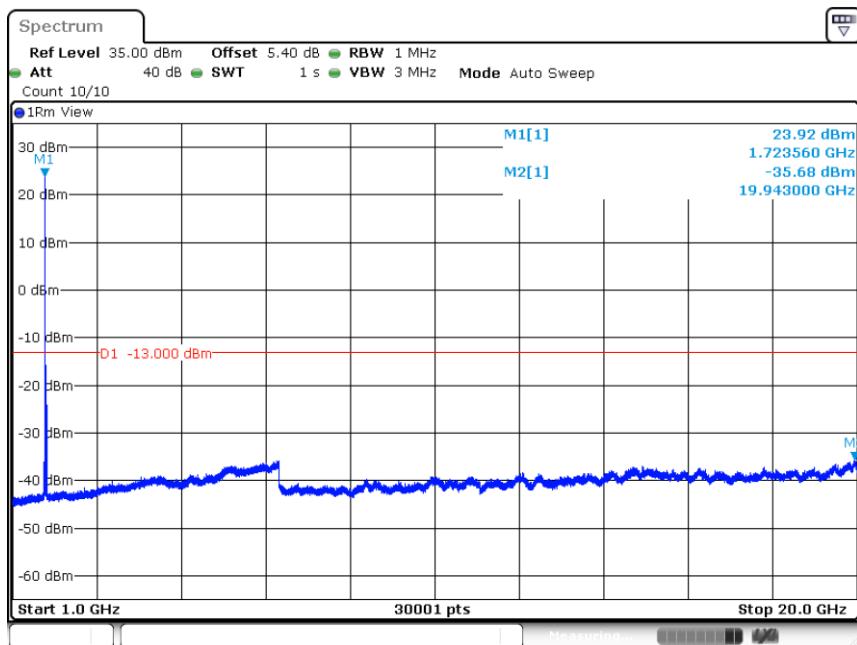
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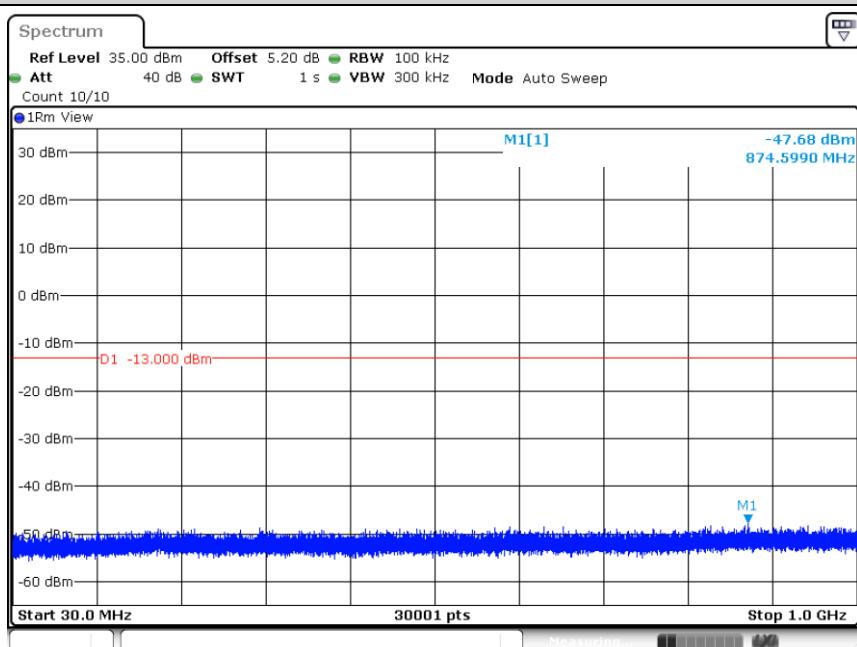
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## Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 23:34:33

## Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz



Date: 13.APR.2021 23:34:52

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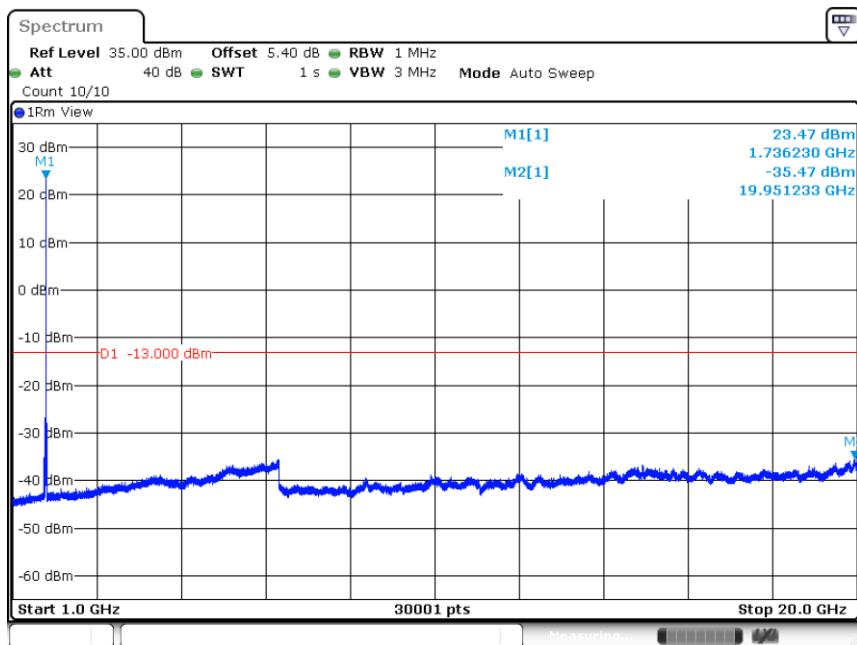
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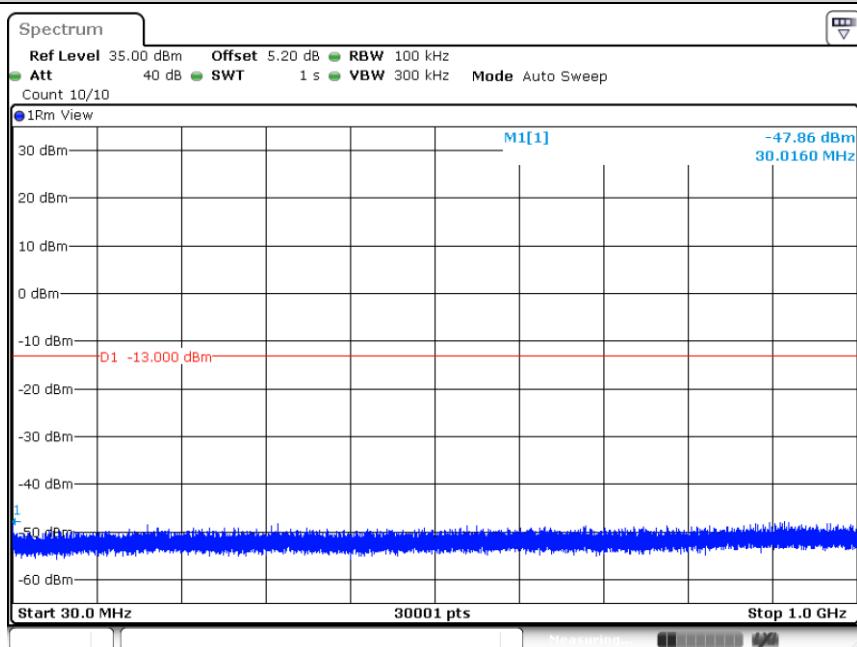
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## Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 23:35:08

## Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



Date: 13.APR.2021 12:36:35

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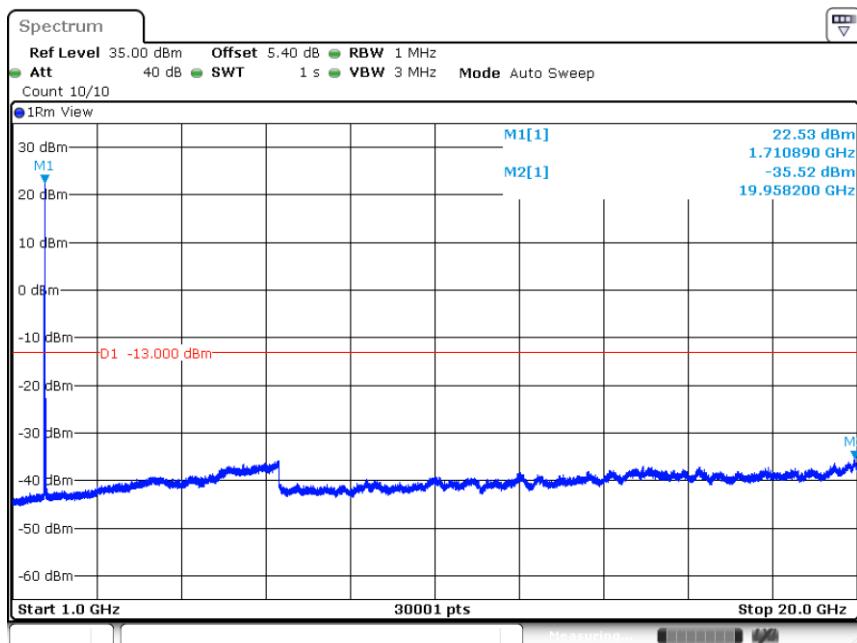
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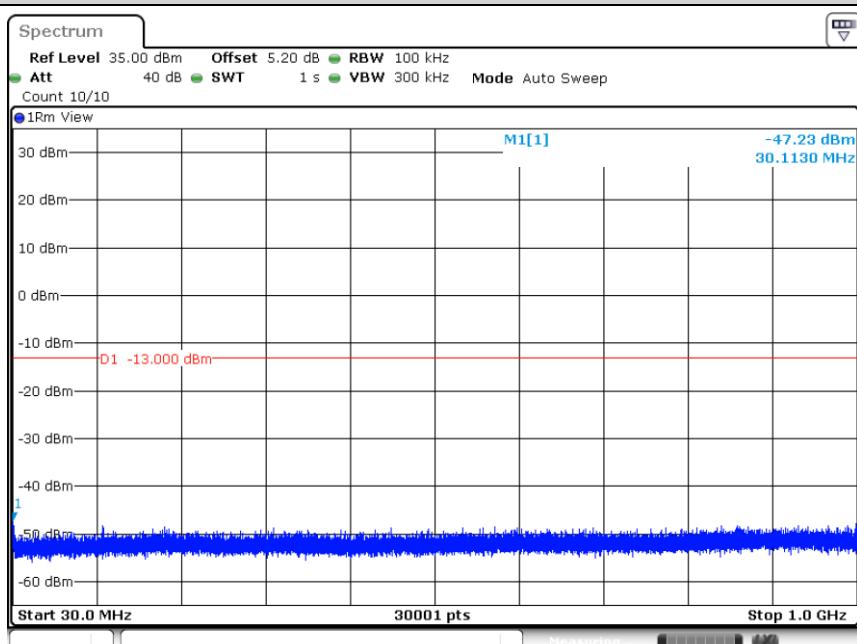
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## Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 12:36:51

## Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



Date: 13.APR.2021 12:37:45

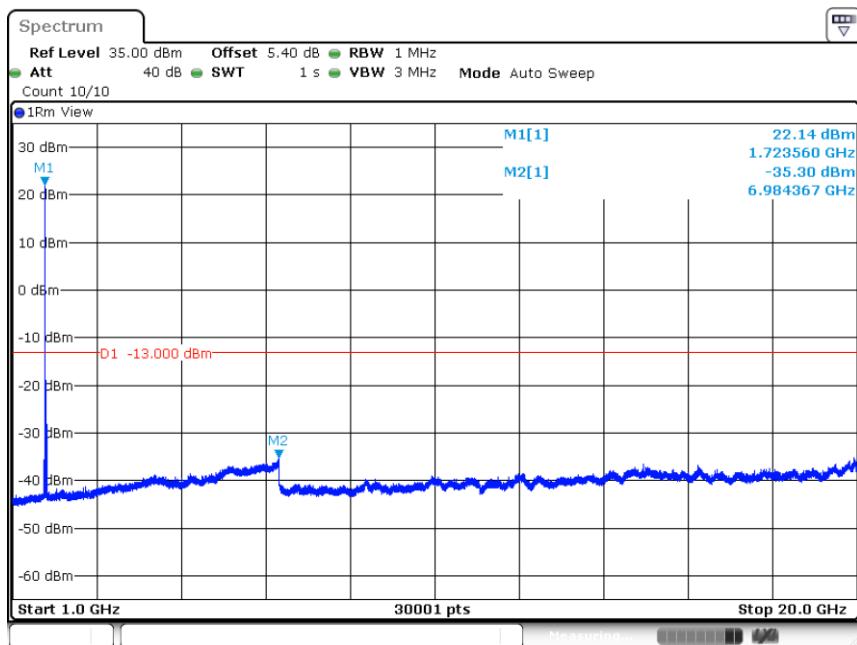
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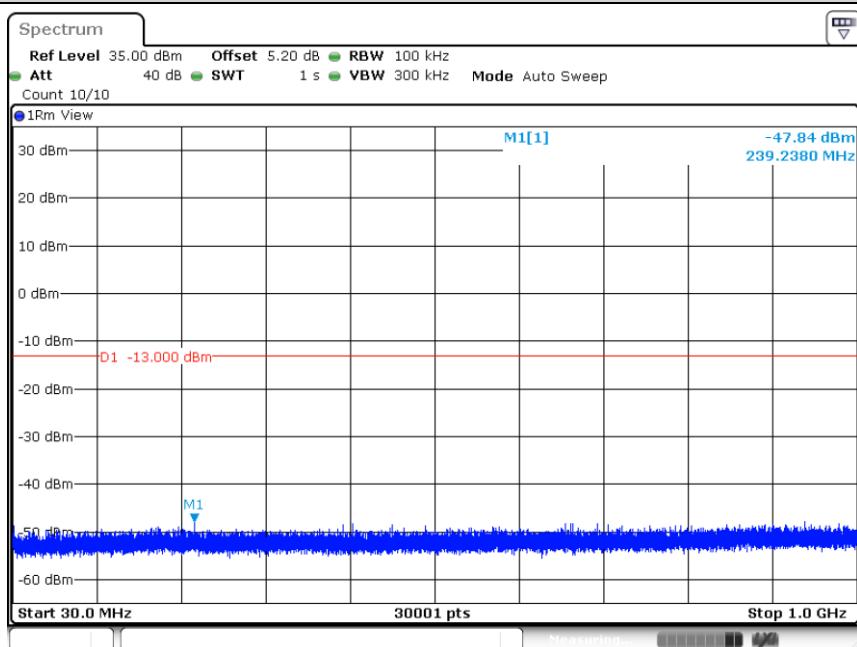
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## Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 12:38:02

## Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



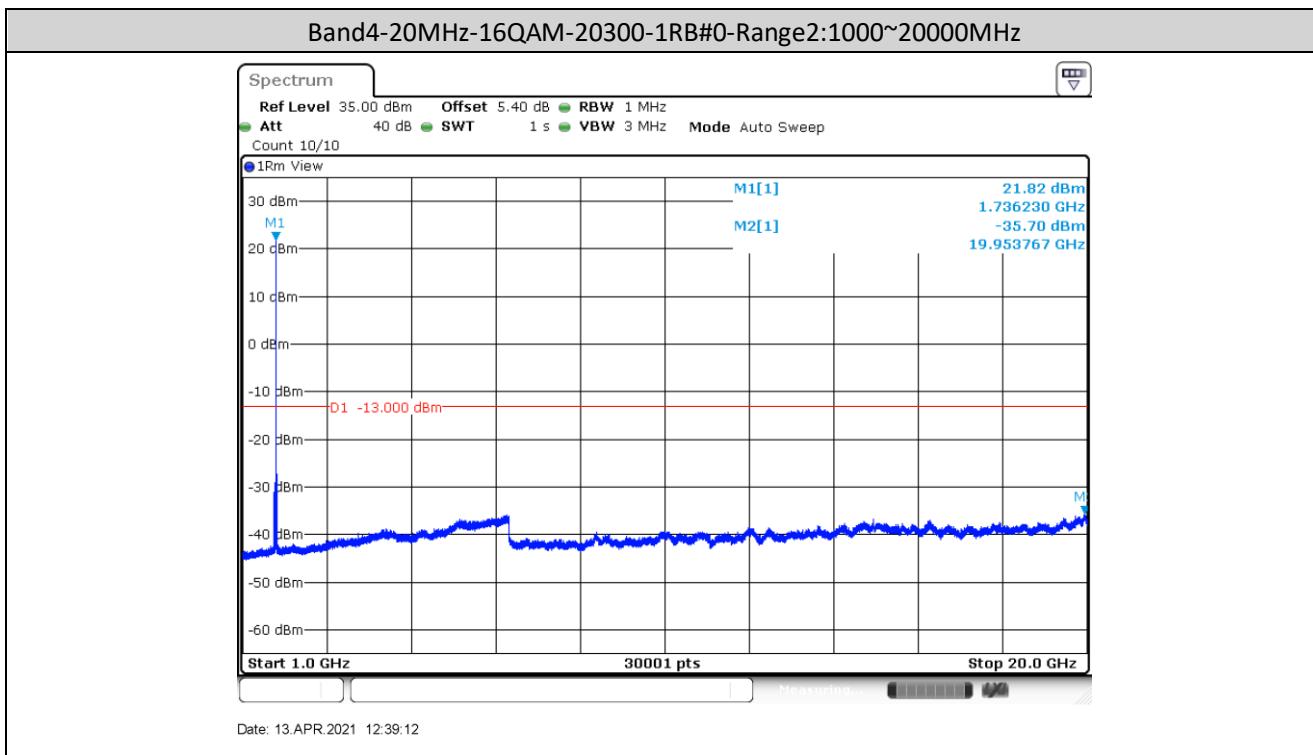
Date: 13.APR.2021 12:38:56

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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band LTE\_Band4 \_TM1

#### 7.1.1. Test Channel Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	36.6448	-81.75	-52.25	-13.00	39.25	Horizontal
2	229.2480	-86.36	-61.64	-13.00	48.64	Horizontal
3	2616.9000	-57.50	-34.83	-13.00	21.83	Horizontal
4	5309.2500	-48.82	-47.35	-13.00	34.35	Horizontal
5	13252.500	-51.95	-40.61	-13.00	27.61	Horizontal
6	16932.750	-50.36	-34.90	-13.00	21.90	Horizontal

### 7.2. Test Band LTE\_Band4 \_TM1

#### 7.2.1. Test Channel Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	113.9092	-86.13	-57.13	-13.00	44.13	Vertical
2	637.3959	-84.30	-57.56	-13.00	44.56	Vertical
3	2114.6000	-54.34	-32.23	-13.00	19.23	Vertical
4	8555.2500	-45.83	-41.47	-13.00	28.47	Vertical
5	14701.500	-51.63	-38.03	-13.00	25.03	Vertical
6	17945.250	-51.15	-31.69	-13.00	18.69	Vertical



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**7.3. Test Band LTE\_Band4 \_TM1****7.3.1. Test Channel Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	35.4323	-81.64	-52.54	-13.00	39.54	Horizontal
2	229.8785	-86.09	-61.27	-13.00	48.27	Horizontal
3	2297.0000	-59.05	-34.86	-13.00	21.86	Horizontal
4	5062.5000	-45.56	-47.00	-13.00	34.00	Horizontal
5	12522.000	-51.41	-41.11	-13.00	28.11	Horizontal
6	17001.750	-52.70	-36.17	-13.00	23.17	Horizontal

**7.4. Test Band LTE\_Band4 \_TM1****7.4.1. Test Channel Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.6595	-86.43	-57.08	-13.00	44.08	Vertical
2	473.0212	-85.27	-60.68	-13.00	47.68	Vertical
3	2124.0000	-56.18	-33.91	-13.00	20.91	Vertical
4	5322.7500	-47.40	-46.63	-13.00	33.63	Vertical
5	15066.000	-51.23	-39.20	-13.00	26.20	Vertical
6	17986.500	-50.23	-30.76	-13.00	17.76	Vertical

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**7.5. Test Band LTE\_Band4 \_TM1****7.5.1. Test Channel High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	35.4808	-81.87	-52.75	-13.00	39.75	Horizontal
2	231.3821	-86.47	-61.64	-13.00	48.64	Horizontal
3	2549.1000	-58.53	-35.32	-13.00	22.32	Horizontal
4	5326.5000	-48.55	-47.34	-13.00	34.34	Horizontal
5	12678.000	-52.05	-40.98	-13.00	27.98	Horizontal
6	16977.750	-52.44	-36.21	-13.00	23.21	Horizontal

**7.6. Test Band LTE\_Band4 \_TM1****7.6.1. Test Channel High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.7266	-86.59	-57.35	-13.00	44.35	Vertical
2	511.6776	-86.21	-61.35	-13.00	48.35	Vertical
3	2149.5000	-54.00	-31.31	-13.00	18.31	Vertical
4	5352.7500	-47.18	-46.84	-13.00	33.84	Vertical
5	14802.750	-52.54	-38.61	-13.00	25.61	Vertical
6	17961.000	-50.80	-31.26	-13.00	18.26	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
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-15.20	-0.008837	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-19.20	-0.011163	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-39.80	-0.023140	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-20.40	-0.011775	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-30.90	-0.017835	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-16.90	-0.009685	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	4.10	0.002350	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-37.00	-0.021203	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-16.90	-0.009826	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	15.20	0.008837	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-32.00	-0.018605	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	27.20	0.015700	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	21.00	0.012121	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	25.50	0.014719	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	8.40	0.004814	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	14.50	0.008309	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	10.80	0.006189	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-19.40	-0.011279	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-27.40	-0.015930	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-17.20	-0.010000	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	8.10	0.004675	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	16.70	0.009639	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	2.20	0.001261	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-4.60	-0.002636	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	6.40	0.003668	±2.5	PASS

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## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-3.00	-0.001744	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-9.40	-0.005465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	-9.90	-0.005756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-10.80	-0.006279	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-14.50	-0.008430	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-13.90	-0.008081	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-14.80	-0.008605	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-19.20	-0.011163	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-28.70	-0.016686	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-40.00	-0.023088	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	17.40	0.010043	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	8.50	0.004906	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	4.80	0.002771	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-4.70	-0.002713	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-9.30	-0.005368	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-23.90	-0.013795	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-27.30	-0.015758	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	3.50	0.002020	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-12.80	-0.007335	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-39.10	-0.022407	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-8.80	-0.005043	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-15.50	-0.008883	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-27.00	-0.015473	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-37.90	-0.021719	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	14.40	0.008252	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	4.10	0.002350	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-36.40	-0.021163	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-38.80	-0.022558	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	-39.00	-0.022674	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-34.00	-0.019767	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-36.80	-0.021395	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-26.80	-0.015581	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-31.90	-0.018547	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-27.70	-0.016105	±2.5	PASS

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Band4	20MHz	64QAM	20050	100RB#0	NV	50	-26.00	-0.015116	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	27.20	0.015700	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	27.70	0.015988	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	35.10	0.020260	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	32.80	0.018932	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	35.40	0.020433	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	31.90	0.018413	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	33.20	0.019163	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	40.10	0.023146	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	40.00	0.023088	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	15.10	0.008653	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	19.40	0.011117	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	17.70	0.010143	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	19.00	0.010888	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	19.30	0.011060	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	21.10	0.012092	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	26.70	0.015301	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	19.30	0.011060	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	20.50	0.011748	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-16.10	-0.009360	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-6.80	-0.003953	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	-7.10	-0.004128	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-3.30	-0.001919	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-3.10	-0.001802	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	4.80	0.002791	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	4.70	0.002733	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	1.90	0.001105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-5.10	-0.002965	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	15.00	0.008658	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	19.20	0.011082	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	18.70	0.010794	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	23.70	0.013680	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	20.80	0.012006	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	24.30	0.014026	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	18.40	0.010620	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	26.30	0.015180	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	33.30	0.019221	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	7.00	0.004011	±2.5	PASS

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Band4	20MHz	16QAM	20300	100RB#0	NV	-20	10.20	0.005845	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	15.20	0.008711	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	23.30	0.013352	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	24.10	0.013811	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	21.90	0.012550	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	24.30	0.013926	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	23.50	0.013467	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	25.30	0.014499	±2.5	PASS



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