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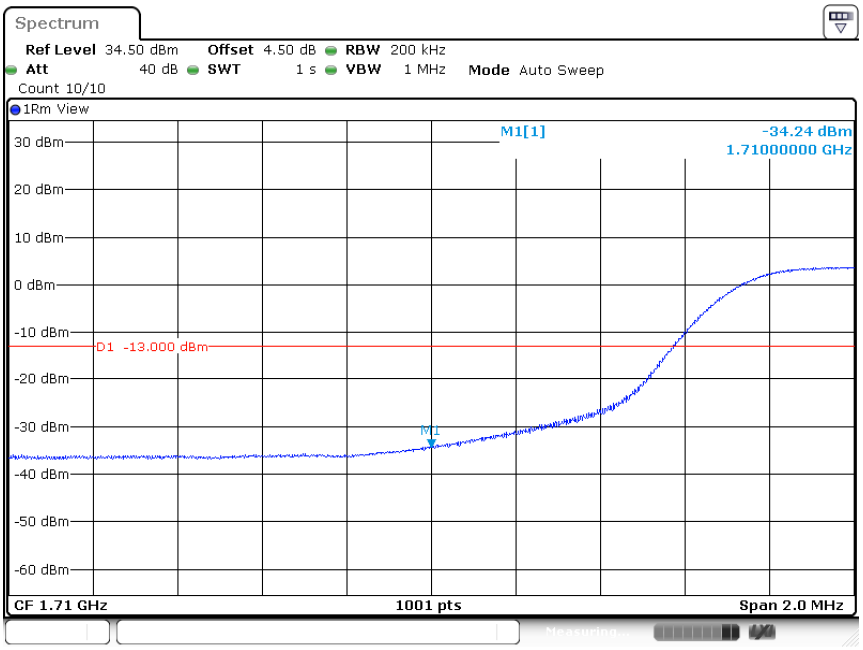

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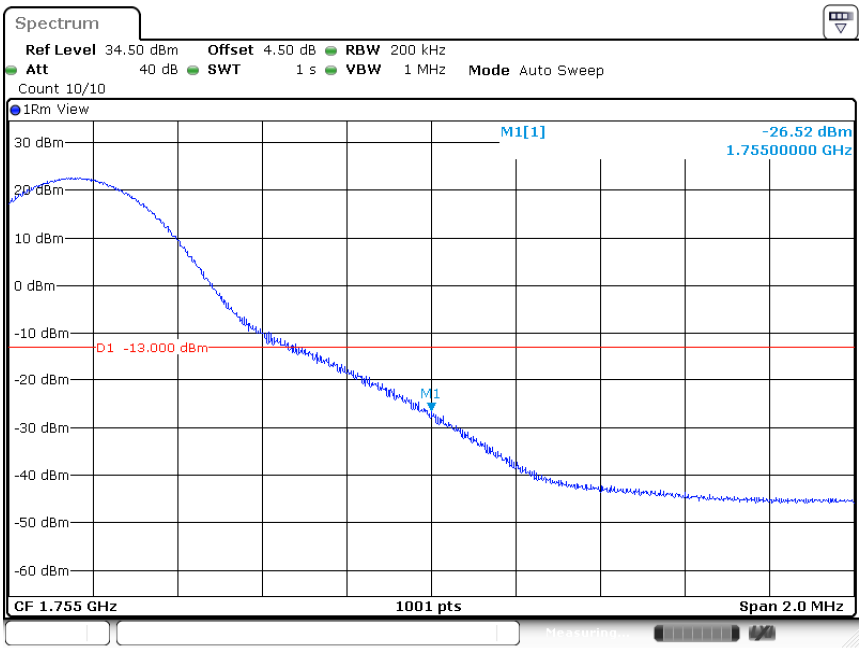

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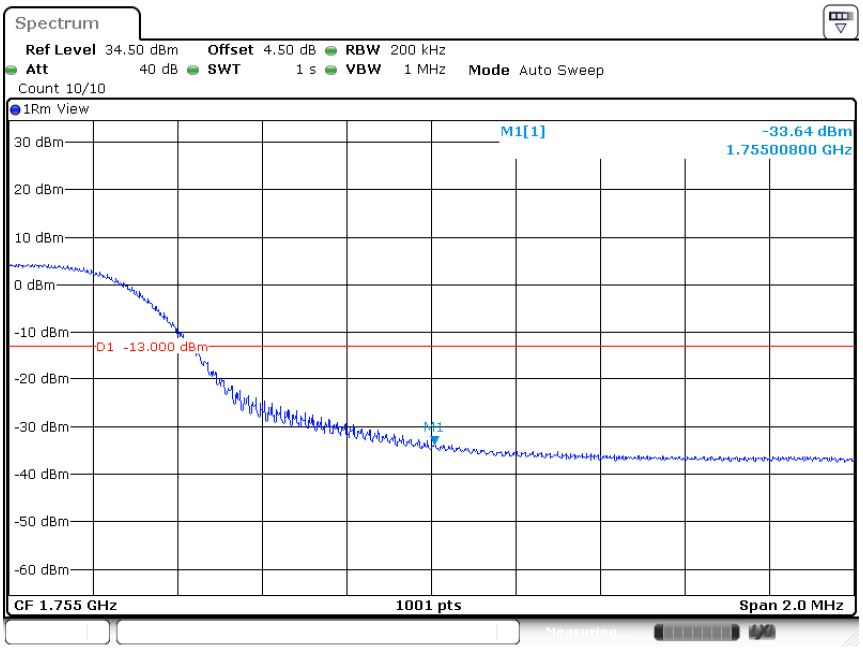
Band4-15MHz-QPSK-20325-75RB#0



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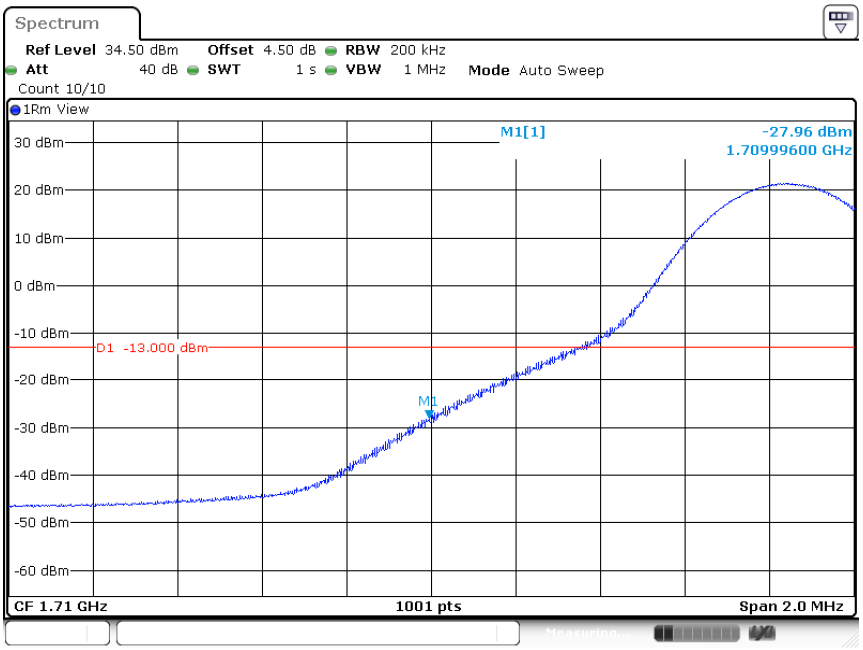
Band4-15MHz-64QAM-20025-1RB#0



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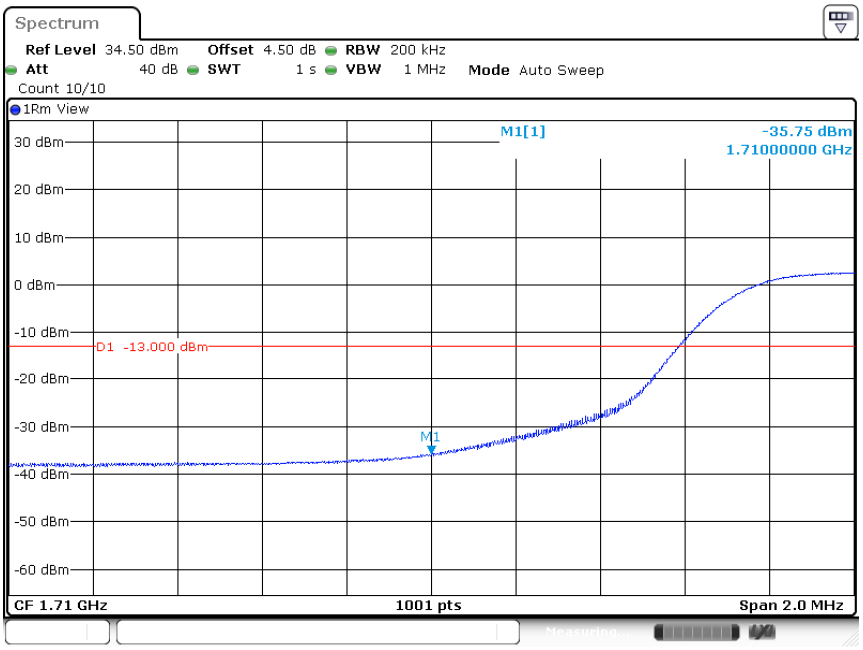
Band4-15MHz-64QAM-20025-75RB#0



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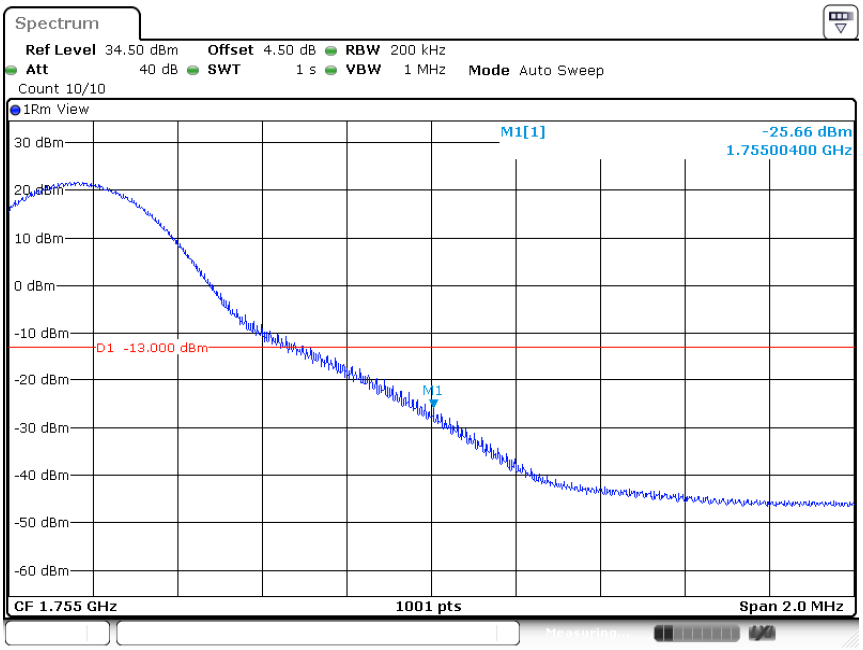

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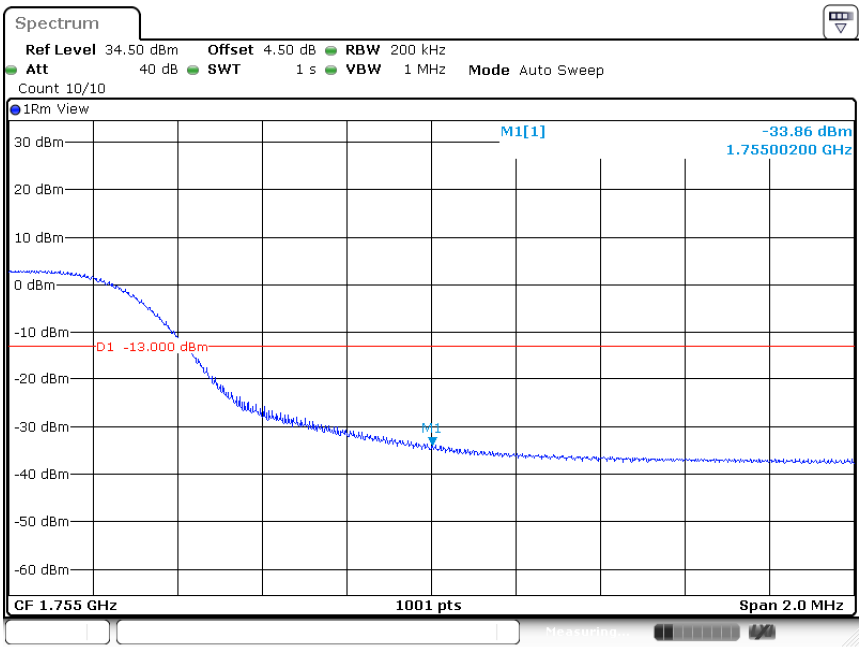
Band4-15MHz-64QAM-20325-75RB#0



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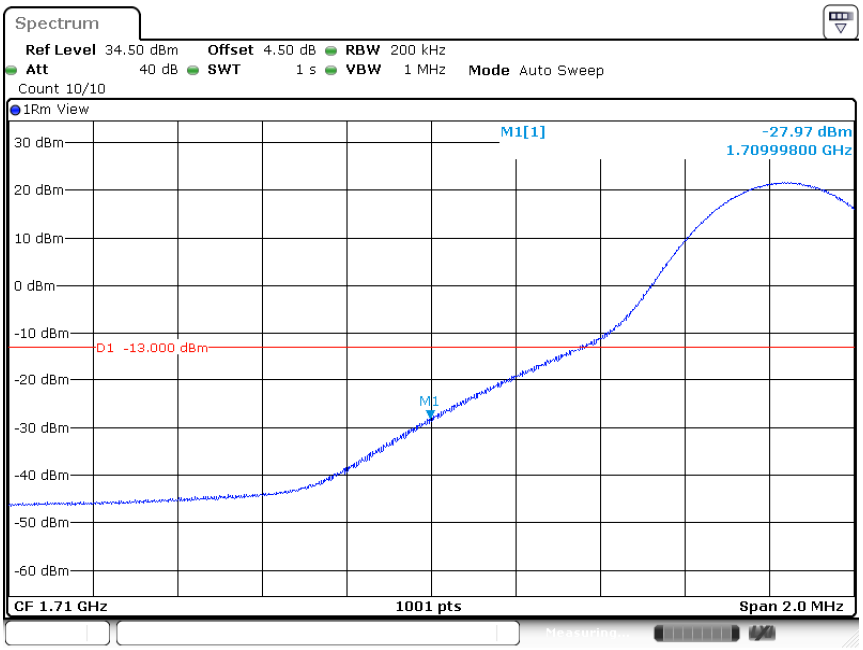

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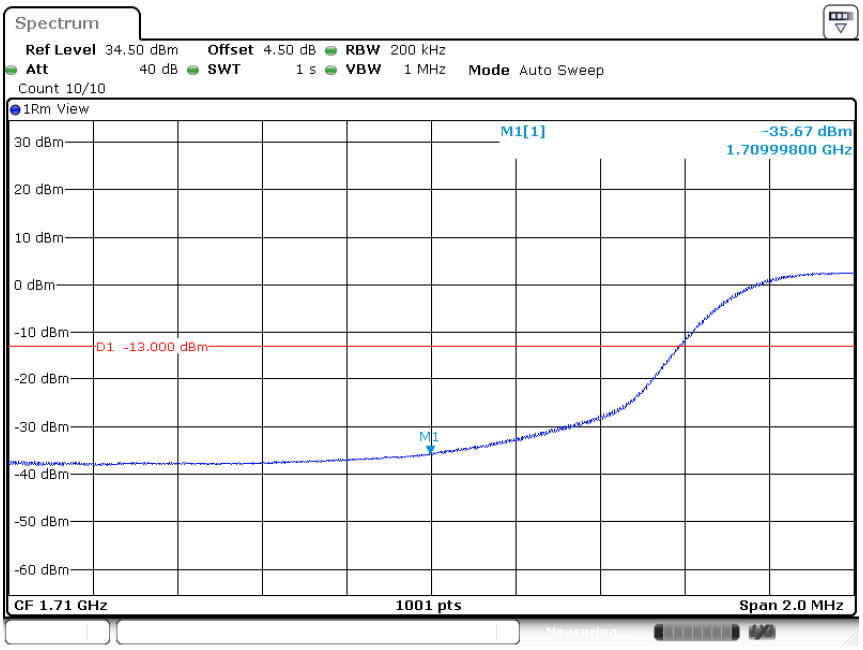

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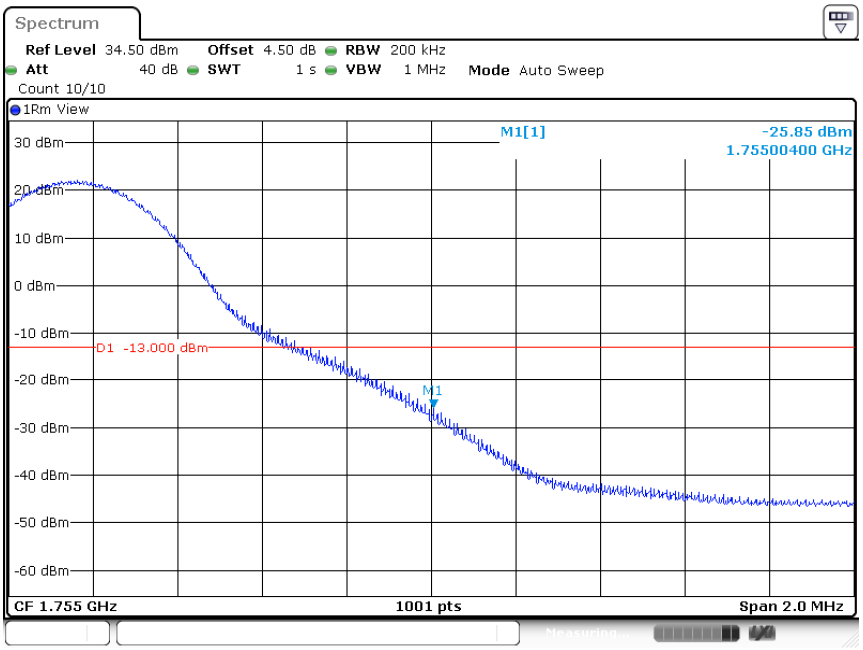
Band4-15MHz-16QAM-20325-1RB#74



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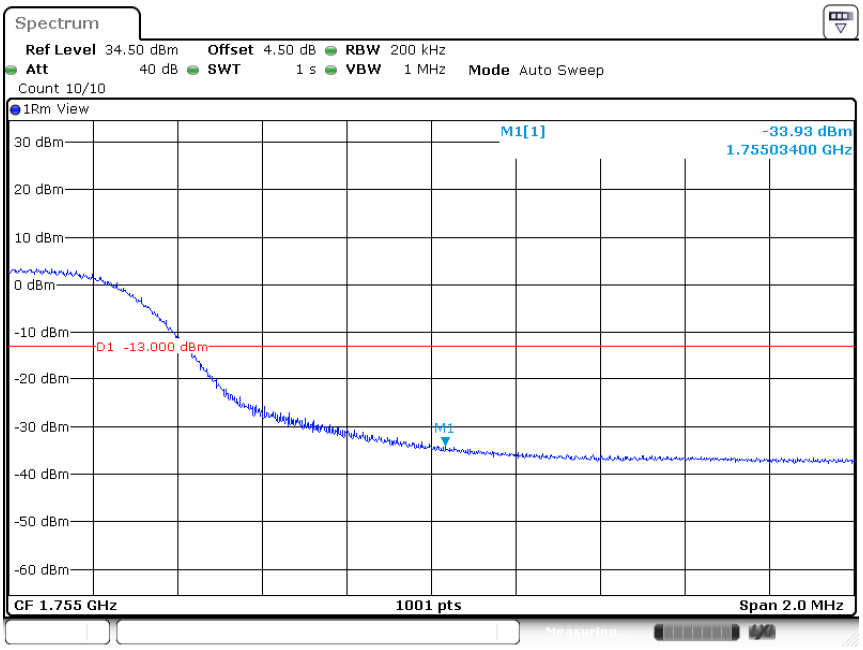
Band4-15MHz-16QAM-20325-75RB#0



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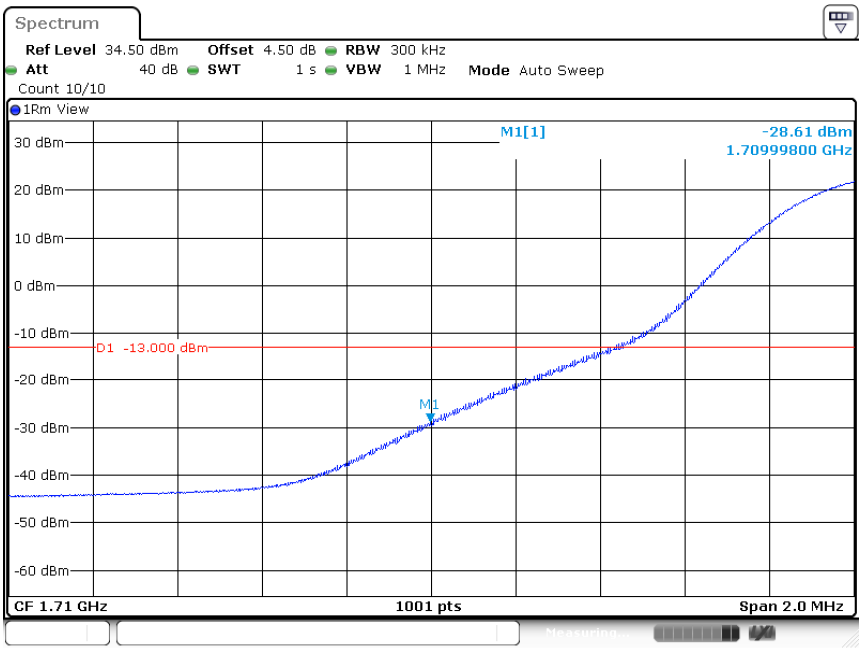
Band4-20MHz-QPSK-20050-1RB#0



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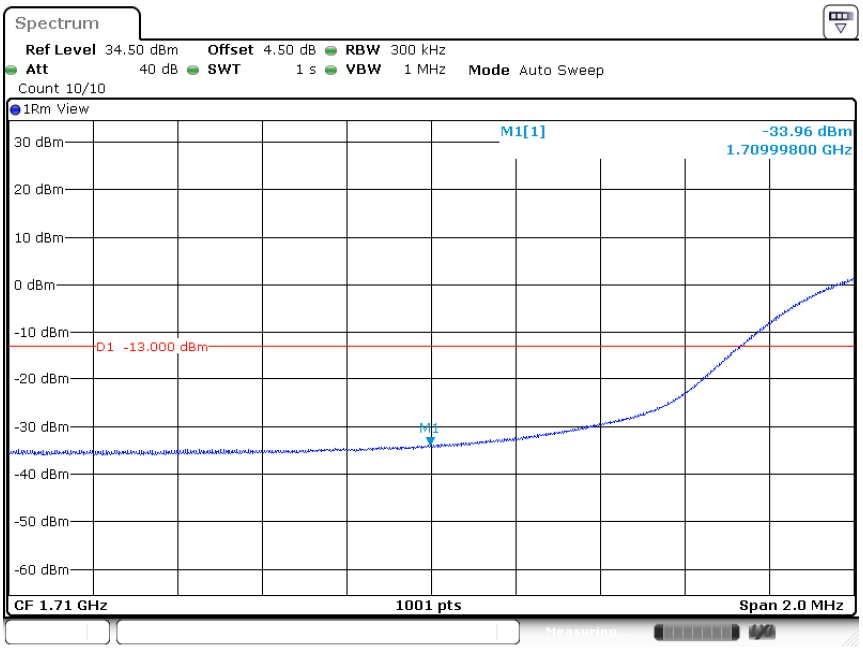
Band4-20MHz-QPSK-20050-100RB#0



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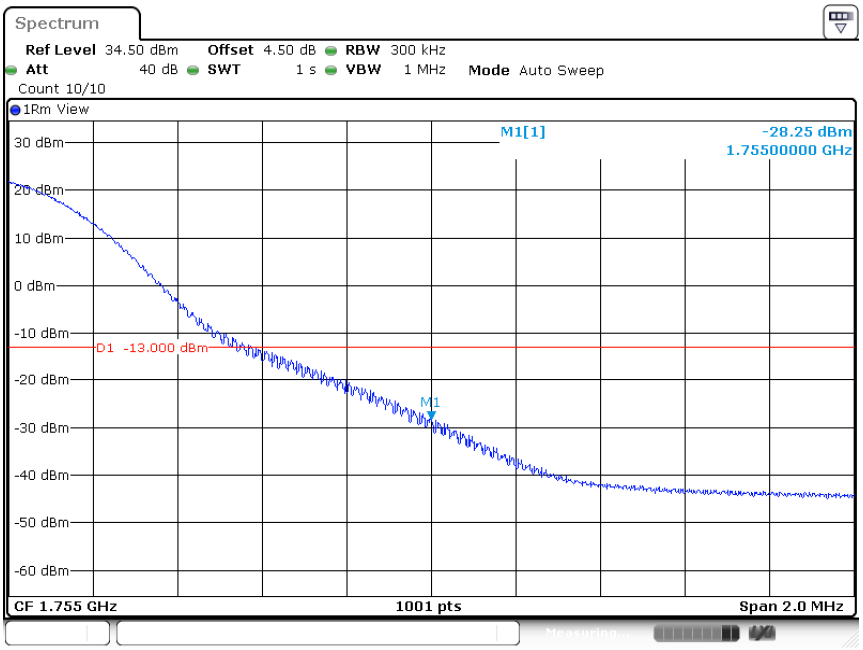

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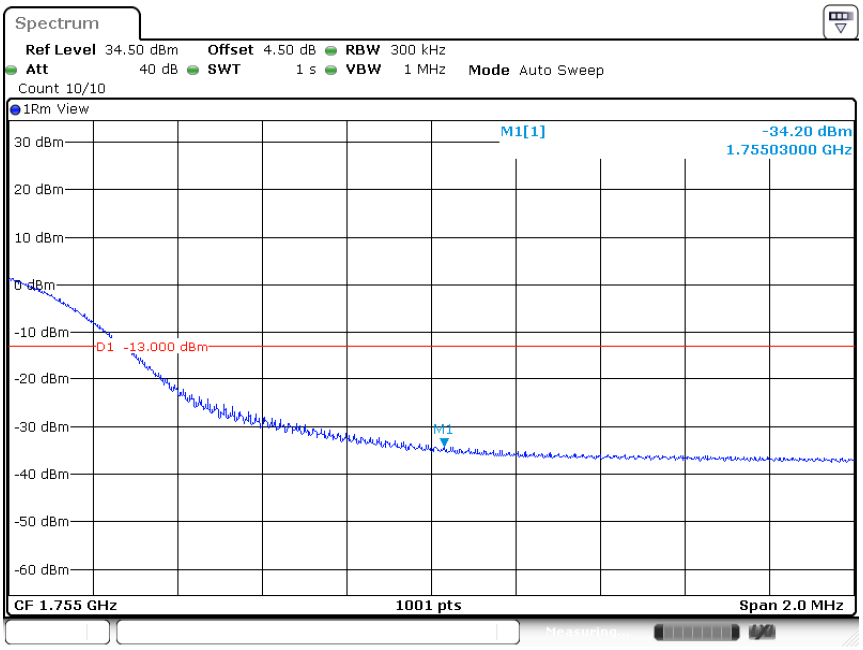

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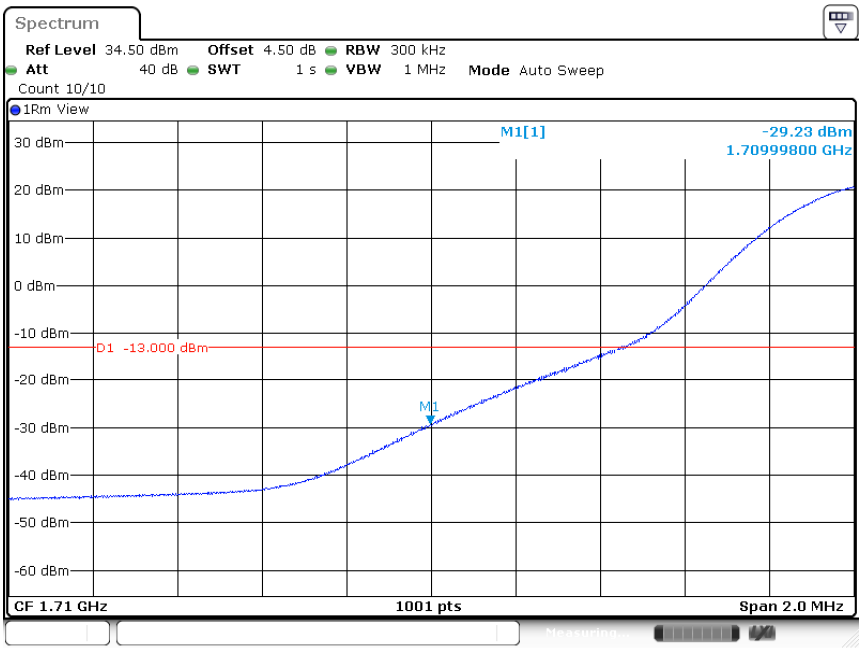

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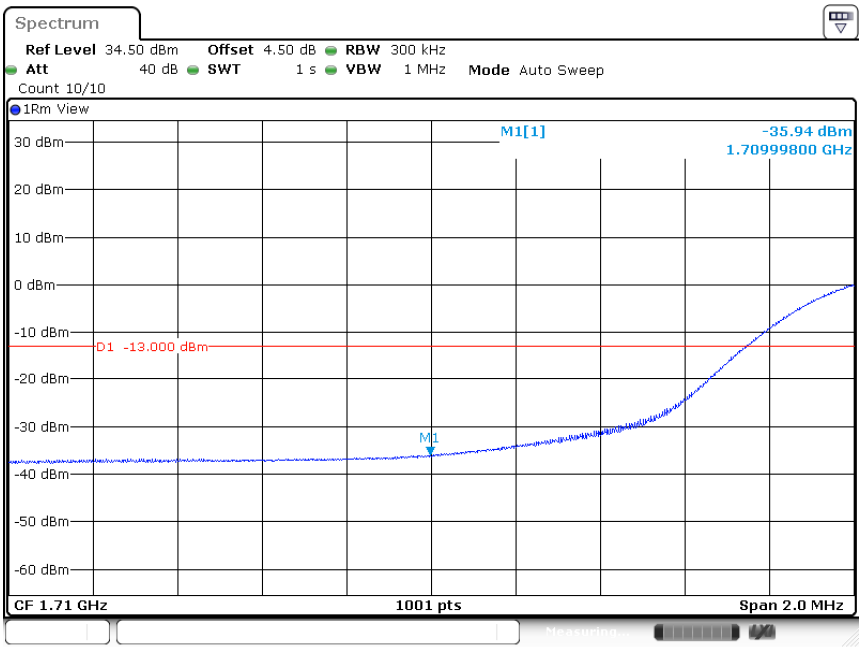

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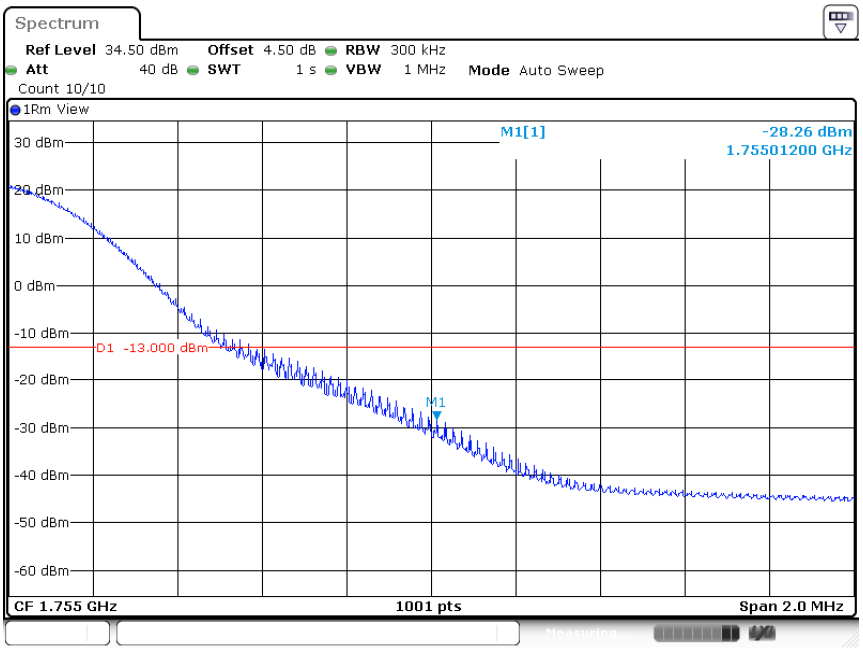

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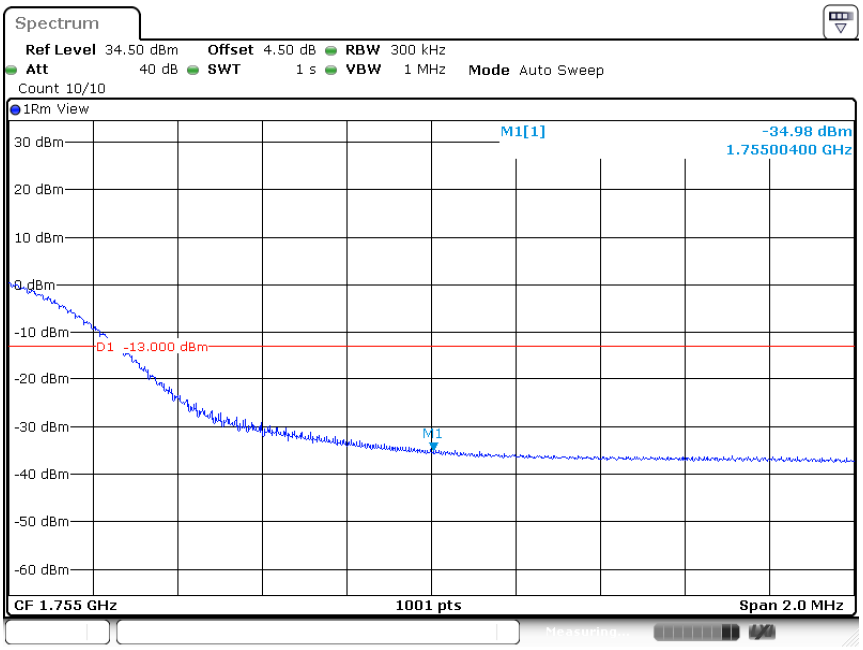

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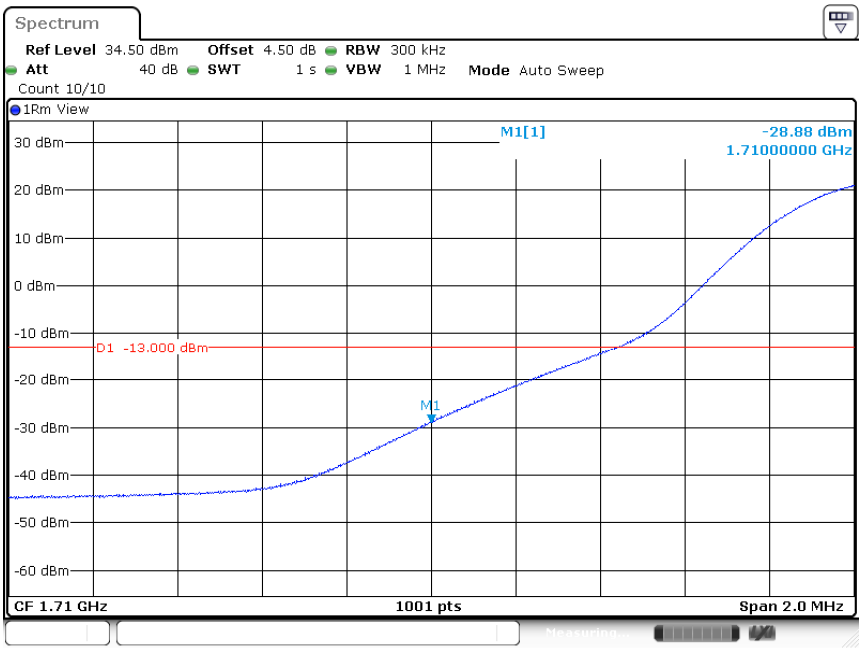

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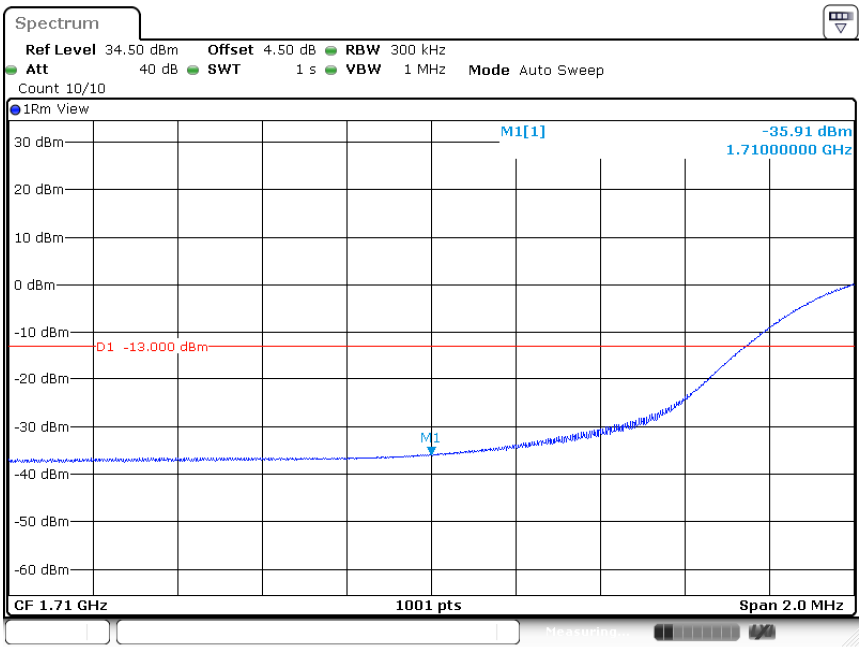
Band4-20MHz-16QAM-20050-100RB#0



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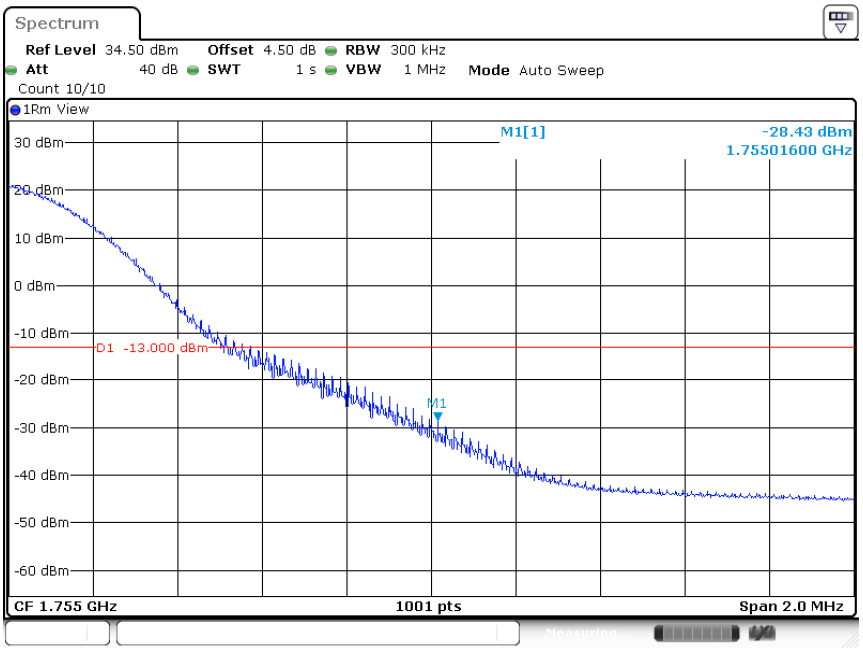
Band4-20MHz-16QAM-20300-1RB#99



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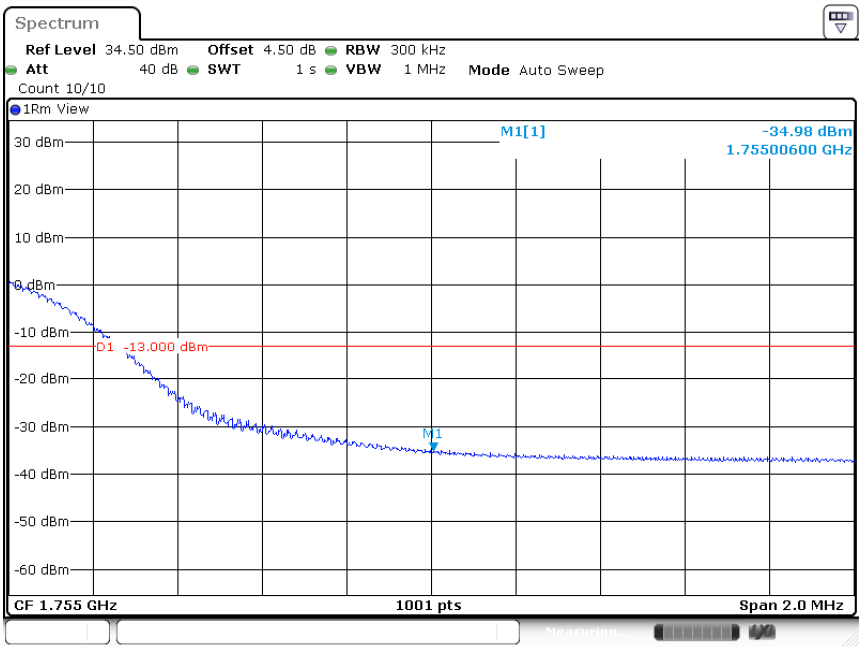
Band4-20MHz-16QAM-20300-100RB#0


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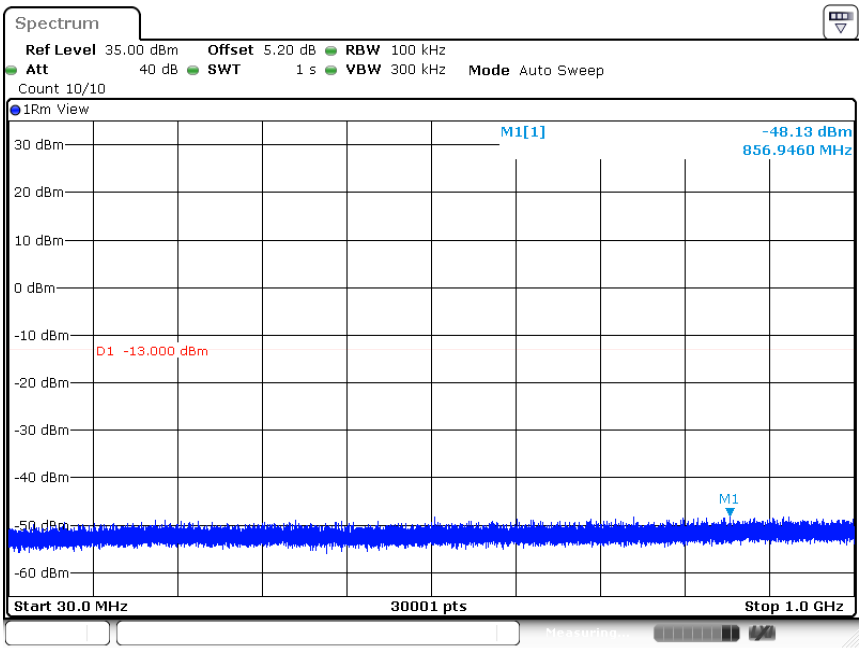
6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots

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



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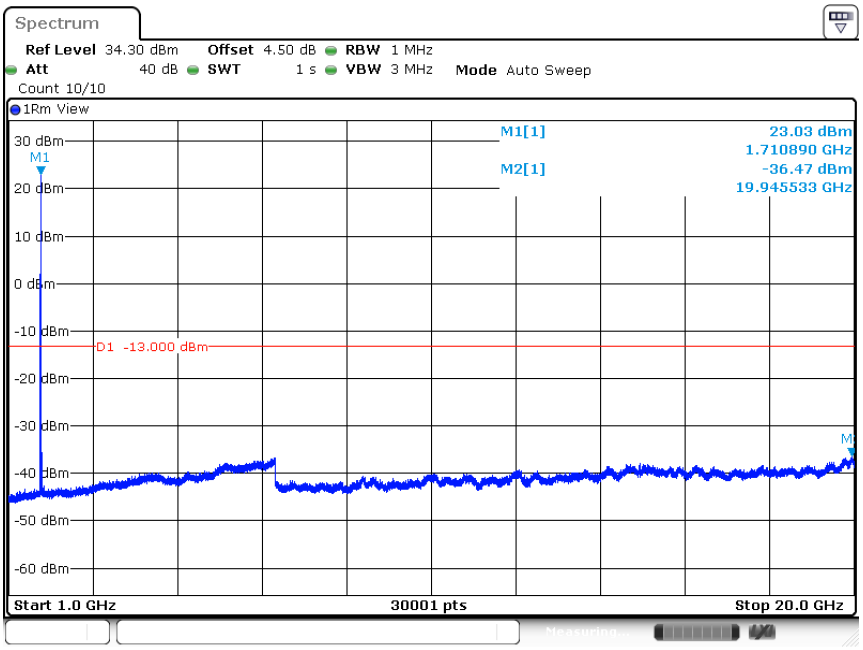
Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



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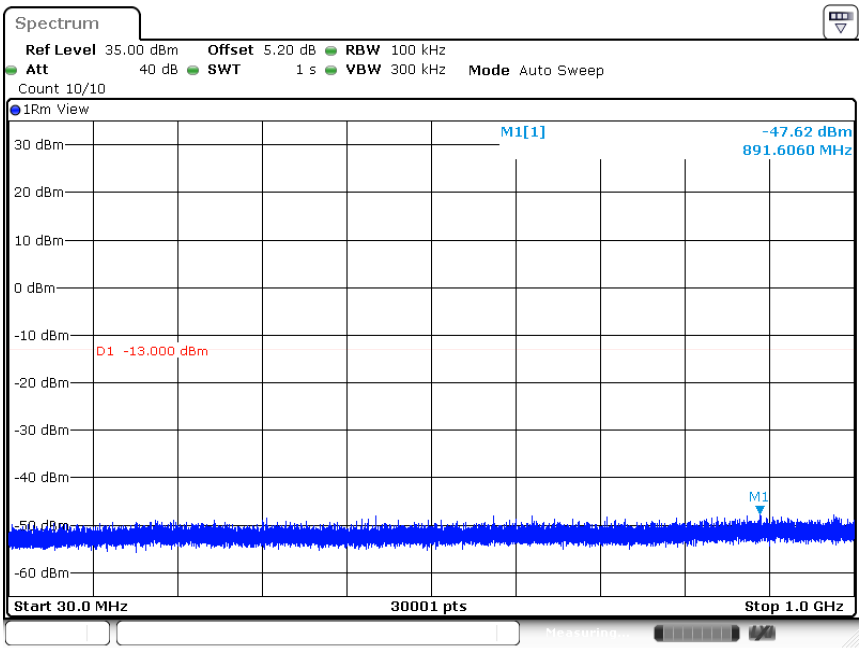
Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



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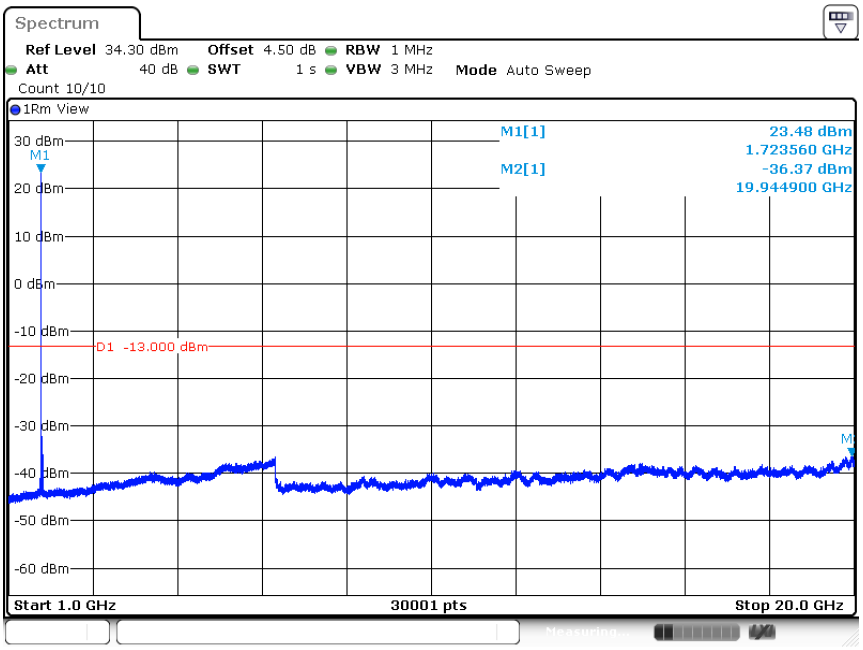
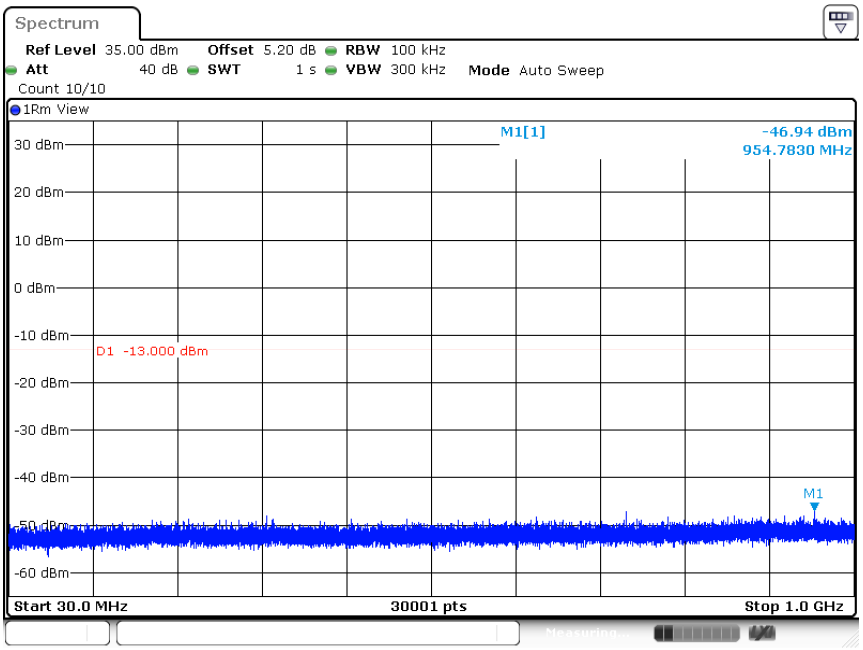
Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 22:30:43

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



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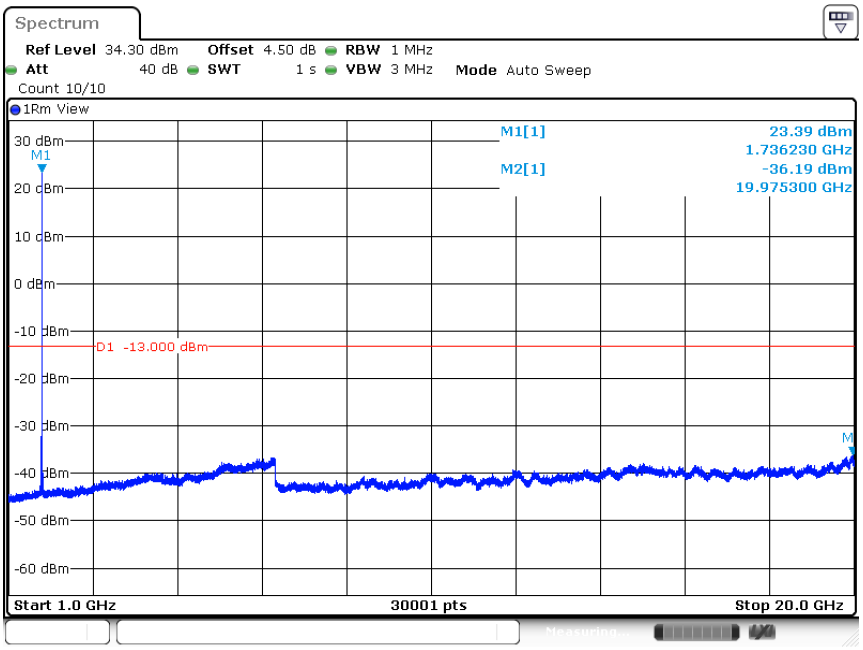
Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



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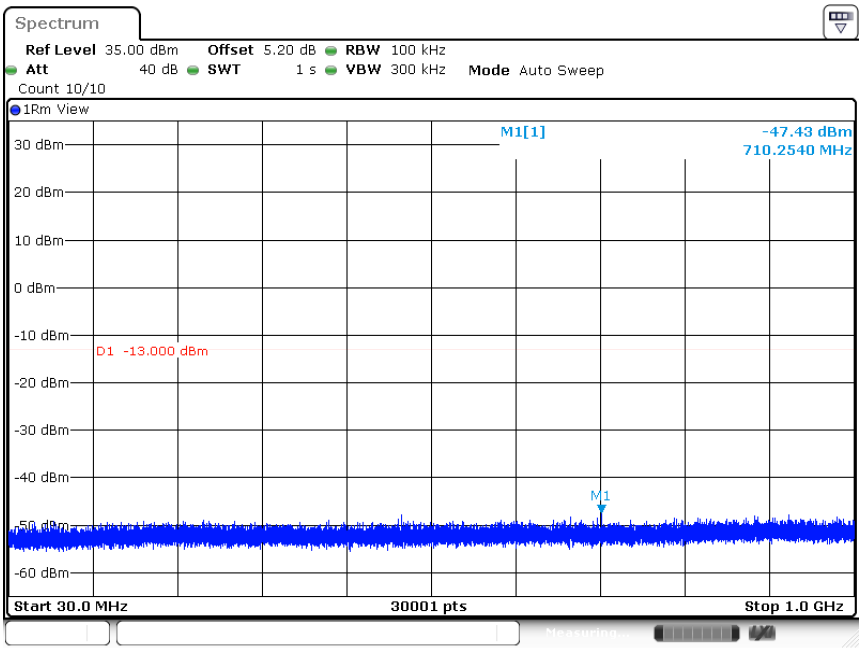
Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



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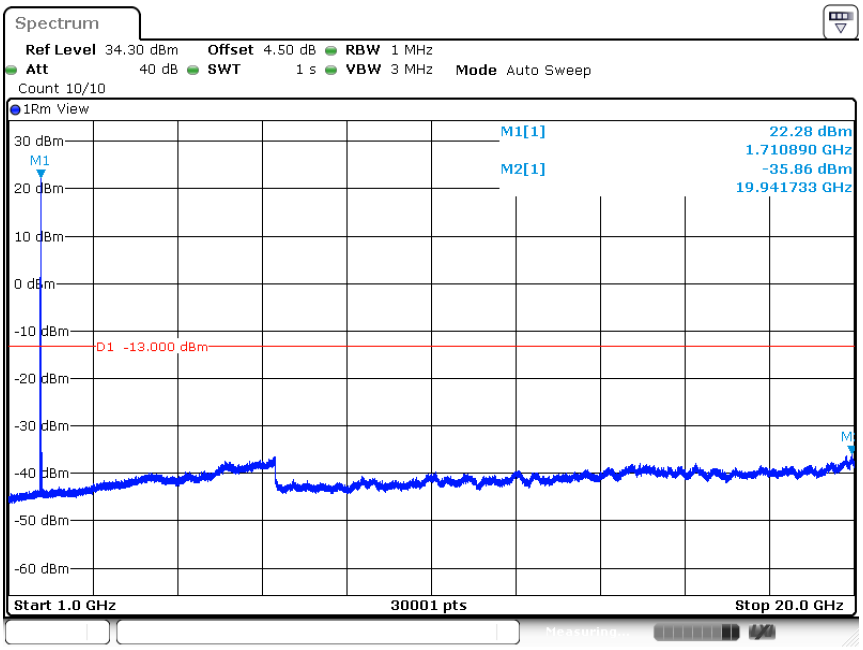
Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



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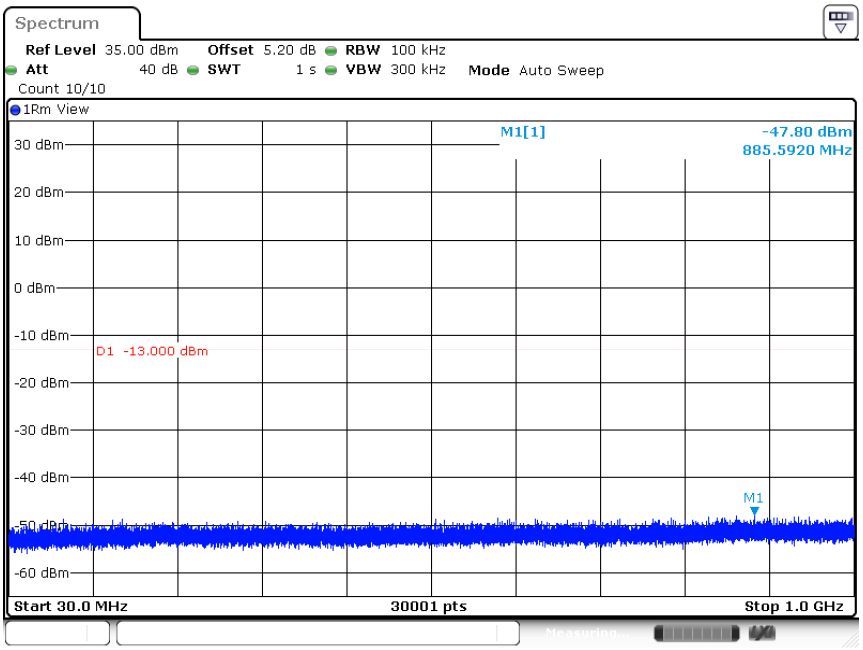

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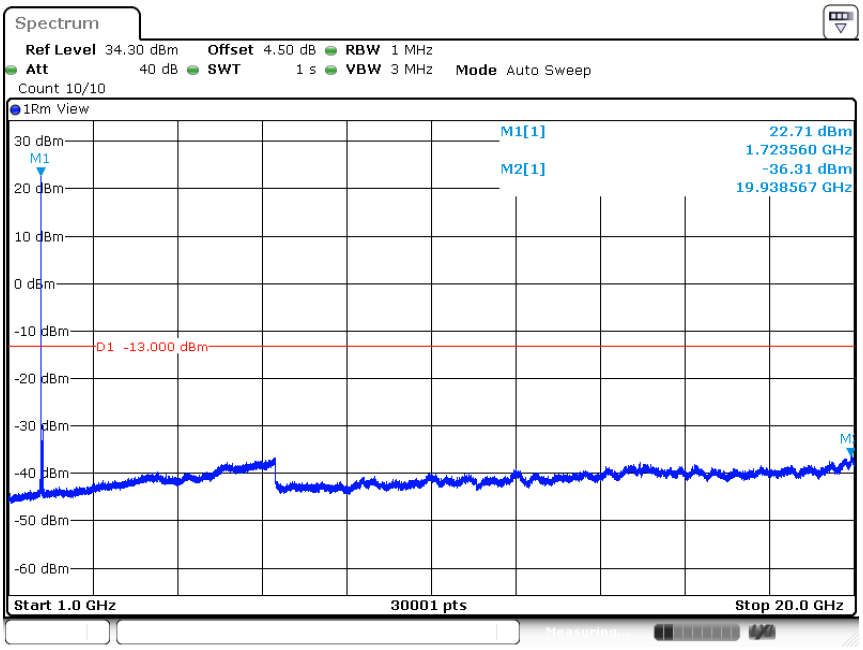
Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz



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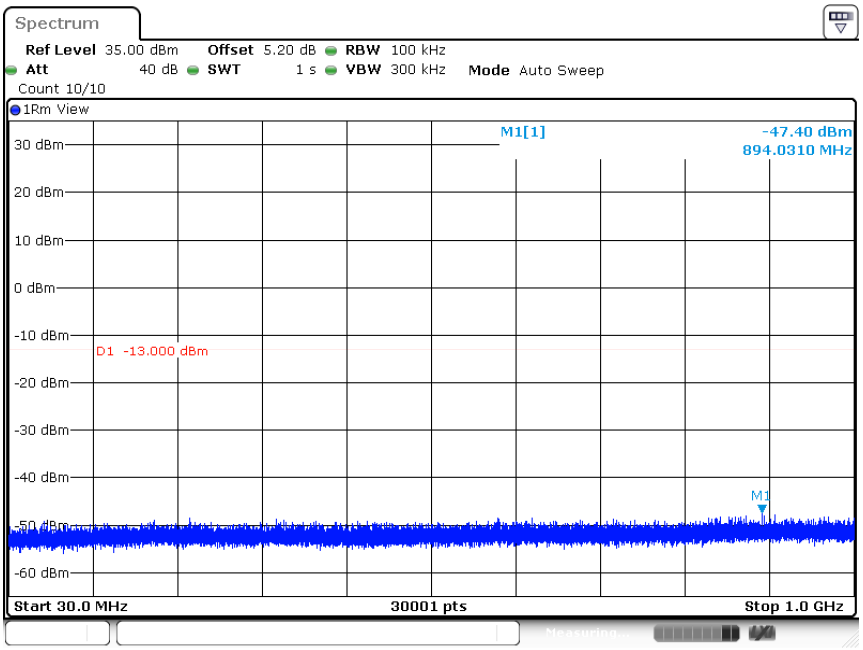

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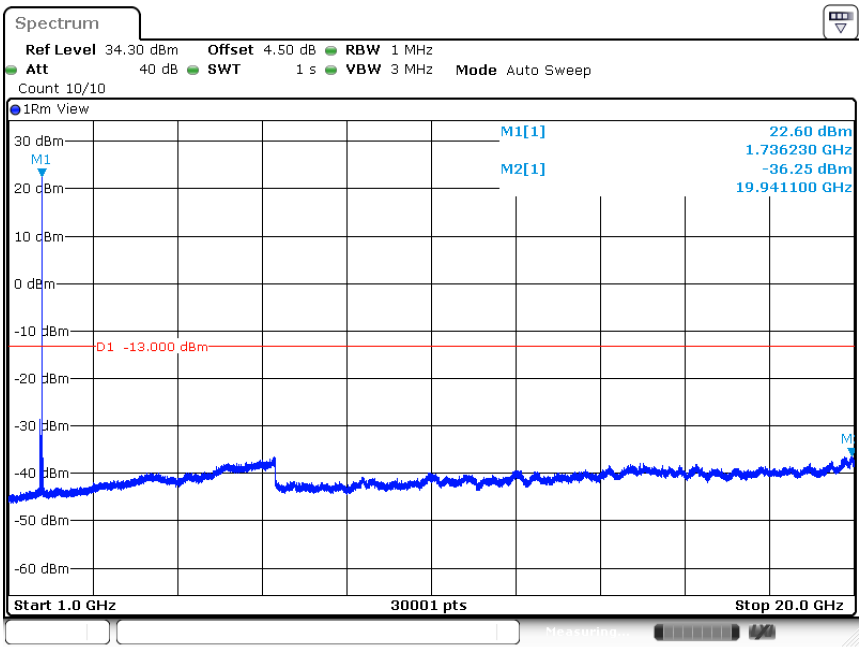
Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz



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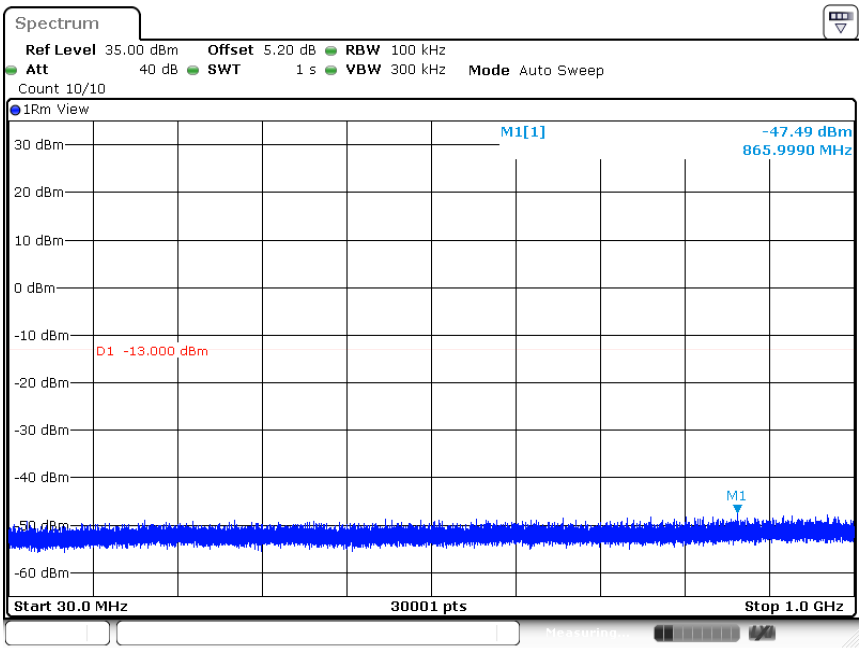

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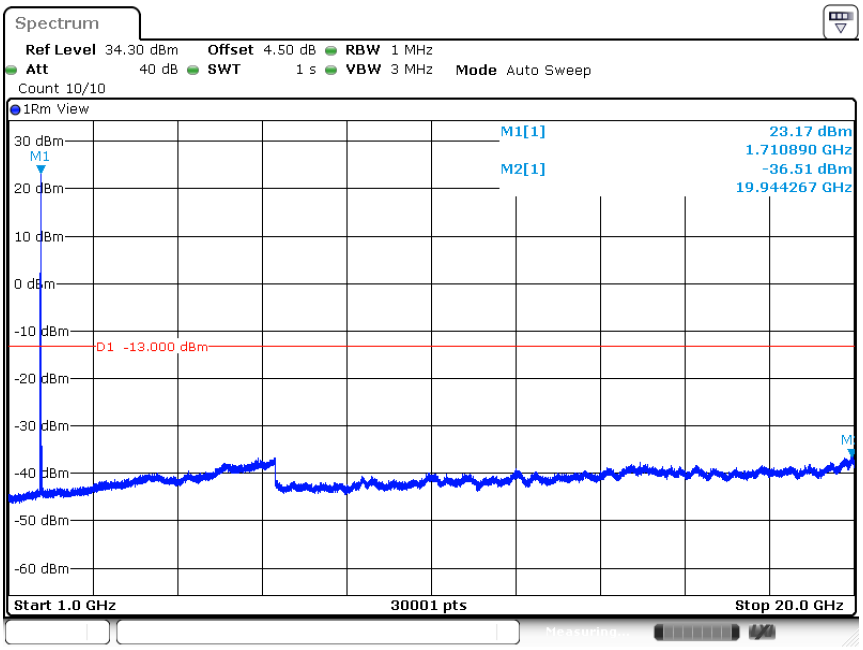
Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



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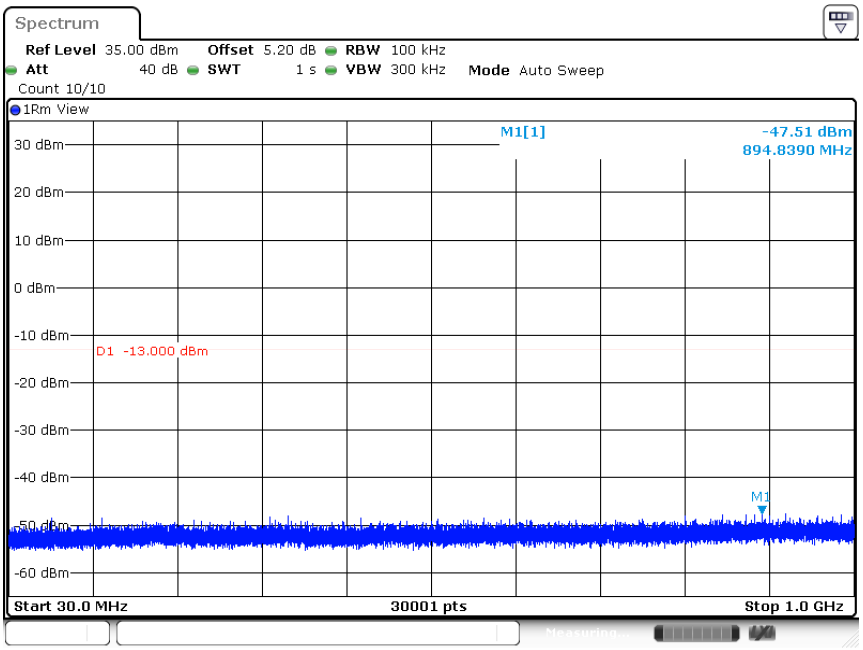

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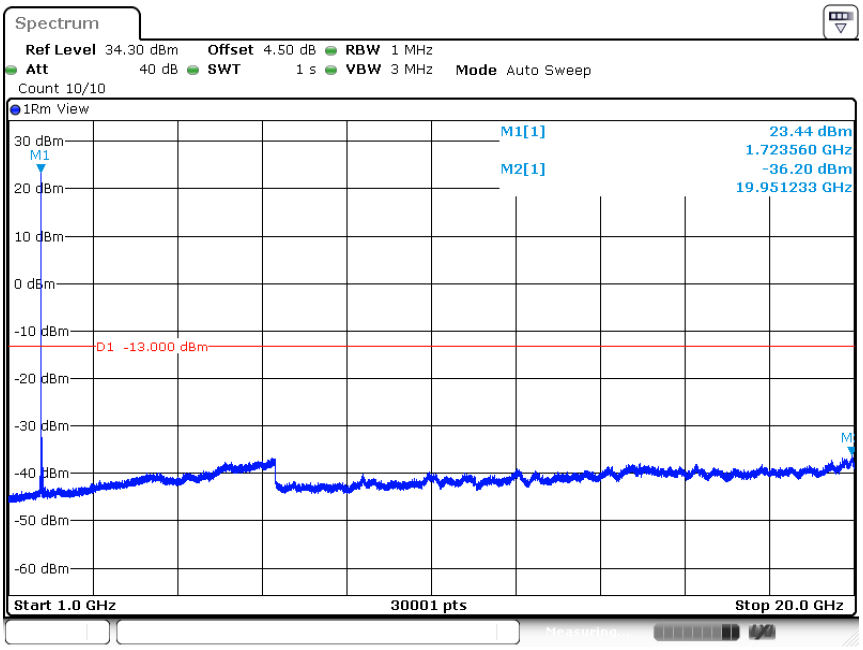
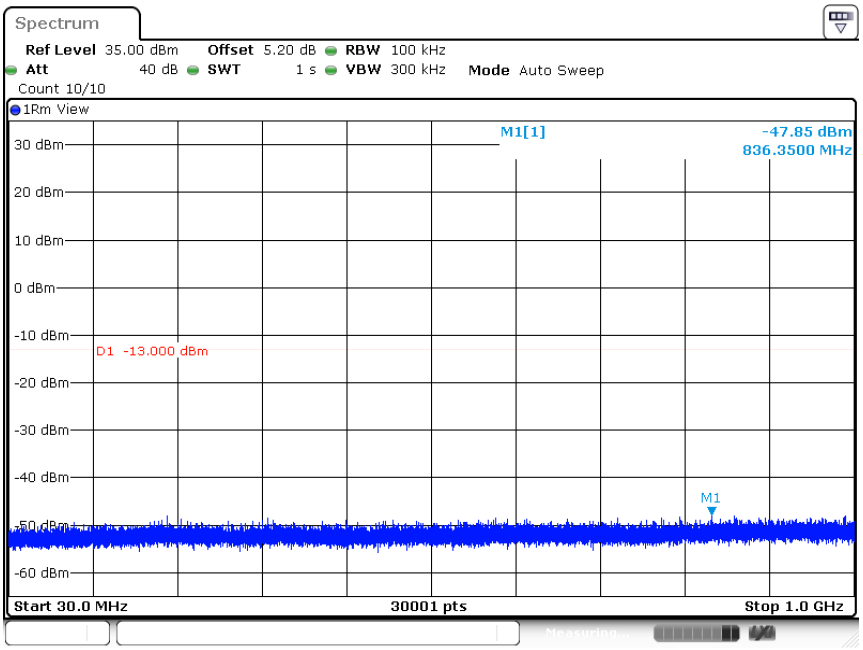


Date: 3.SEP.2020 22:31:18

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



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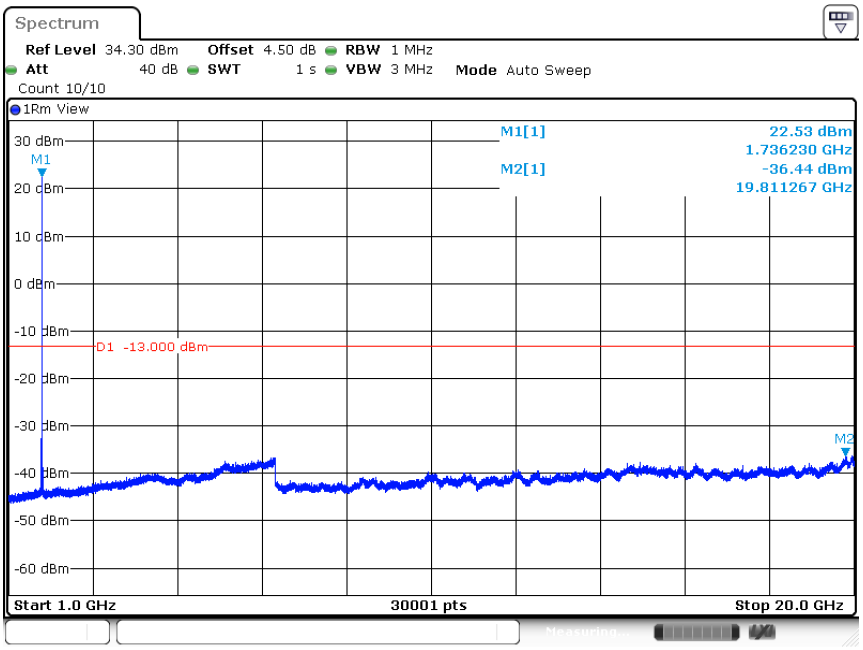
Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3581	-75.24	-13.00	62.24	Vertical
118.0804	-64.16	-13.00	51.16	Vertical
381.7881	-68.22	-13.00	55.22	Vertical
5024.0675	-61.53	-13.00	48.53	Vertical
10465.2488	-51.29	-13.00	38.29	Vertical
17996.9999	-39.87	-13.00	26.87	Vertical
45.4723	-64.35	-13.00	51.35	Horizontal
228.4234	-68.71	-13.00	55.71	Horizontal
609.3130	-62.94	-13.00	49.94	Horizontal
3540.5180	-60.84	-13.00	47.84	Horizontal
7349.1450	-56.24	-13.00	43.24	Horizontal
16392.9464	-43.16	-13.00	30.16	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.0000	-74.39	-13.00	61.39	Vertical
108.9619	-65.00	-13.00	52.00	Vertical
364.9577	-68.16	-13.00	55.16	Vertical
5099.0700	-62.10	-13.00	49.10	Vertical
9859.7287	-52.19	-13.00	39.19	Vertical
17999.0000	-39.70	-13.00	26.70	Vertical
39.8945	-64.26	-13.00	51.26	Horizontal
100.9590	-75.19	-13.00	62.19	Horizontal
223.8157	-68.28	-13.00	55.28	Horizontal
3447.5149	-61.18	-13.00	48.18	Horizontal
7467.1489	-56.37	-13.00	43.37	Horizontal
16404.4468	-43.42	-13.00	30.42	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.4908	-72.12	-13.00	59.12	Vertical
113.9577	-65.23	-13.00	52.23	Vertical
380.6240	-68.27	-13.00	55.27	Vertical
3734.5245	-61.90	-13.00	48.90	Vertical
8022.1674	-55.60	-13.00	42.60	Vertical
17997.4999	-39.91	-13.00	26.91	Vertical
40.6220	-64.22	-13.00	51.22	Horizontal
96.8848	-73.26	-13.00	60.26	Horizontal
233.0797	-67.29	-13.00	54.29	Horizontal
5068.5690	-61.58	-13.00	48.58	Horizontal
9977.7326	-52.14	-13.00	39.14	Horizontal
16375.9459	-43.41	-13.00	30.41	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
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	1.50	0.000872	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.50	0.002035	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.20	0.000115	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	3.10	0.001802	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	3.60	0.002093	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	3.70	0.002151	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	1.10	0.000635	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	2.30	0.001328	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	1.40	0.000808	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-3.30	-0.001891	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	2.00	0.001163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	3.50	0.002035	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	3.70	0.002151	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	2.60	0.001501	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	2.40	0.001385	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-0.40	-0.000229	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	2.50	0.001453	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	2.60	0.001512	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	1.70	0.000988	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	3.10	0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	1.20	0.000698	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	3.10	0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	0.50	0.000291	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	3.10	0.001802	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	3.10	0.001789	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	2.70	0.001558	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	1.70	0.000981	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.90	0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	2.40	0.001385	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.50	-0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.80	0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-1.30	-0.000745	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-2.20	-0.001261	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	0.10	0.000057	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	3.40	0.001977	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	1.10	0.000640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	3.00	0.001744	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	3.20	0.001860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	0.20	0.000116	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	2.20	0.001279	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	0.80	0.000465	±2.5	PASS

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Band4	20MHz	64QAM	20050	100RB#0	NV	40	2.00	0.001163	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	1.20	0.000698	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	0.60	0.000346	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	2.30	0.001328	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	2.10	0.001212	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	3.10	0.001789	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	0.10	0.000058	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	2.60	0.001501	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	-1.70	-0.000974	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-0.30	-0.000172	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-5.30	-0.003037	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	3.70	0.002151	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	3.40	0.001977	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	3.80	0.002209	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	3.70	0.002151	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	3.60	0.002093	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	1.50	0.000872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	0.90	0.000523	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	0.70	0.000407	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	2.90	0.001686	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	1.10	0.000635	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	-1.50	-0.000866	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.90	0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	2.90	0.001674	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-1.30	-0.000750	±2.5	PASS

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Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-4.70	-0.002693	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-1.20	-0.000688	±2.5	PASS

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