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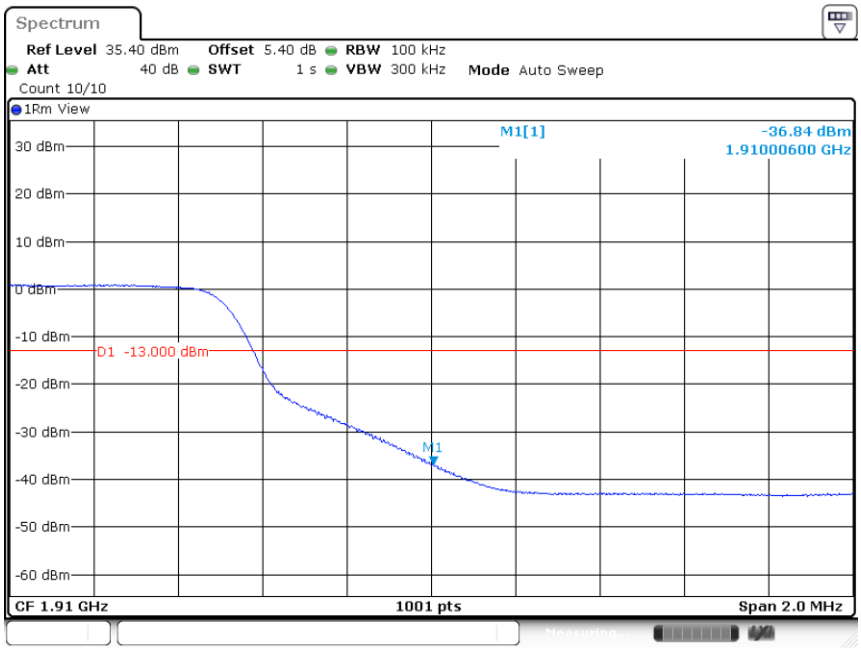

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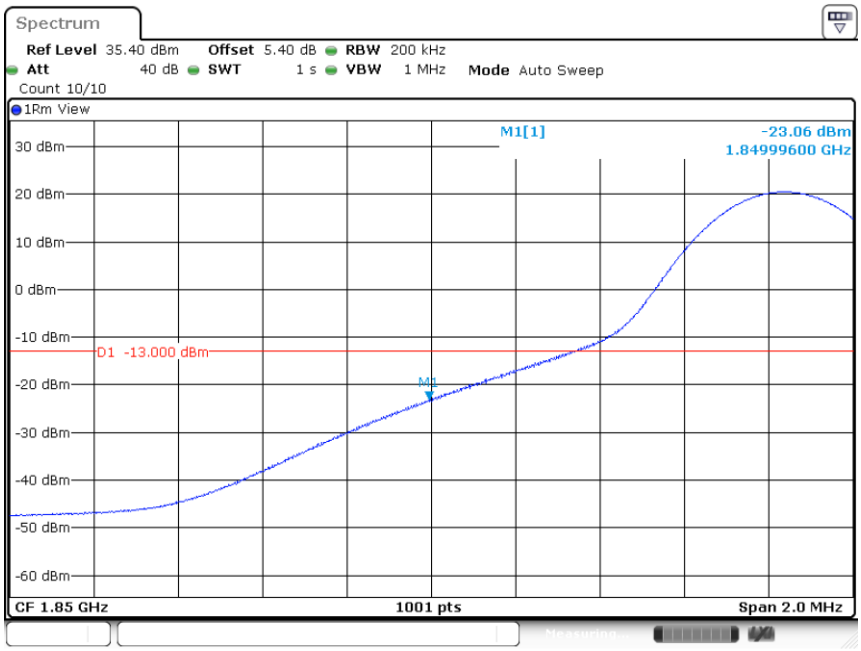
Band2-15MHz-QPSK-18675-1RB#0



Date: 13.APR.2021 13:06:19

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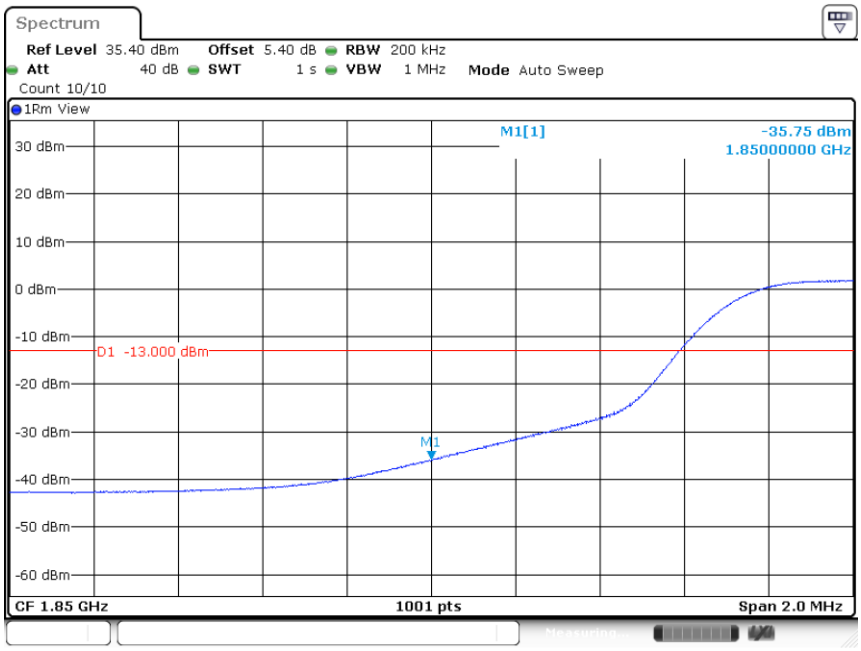
Band2-15MHz-QPSK-18675-75RB#0



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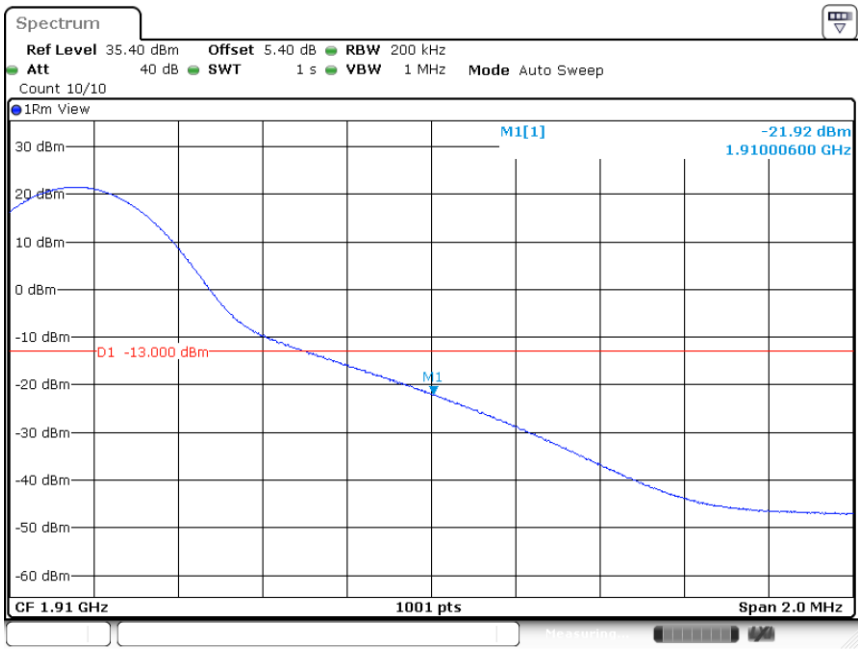
Band2-15MHz-QPSK-19125-1RB#74



Date: 13.APR.2021 13:07:45

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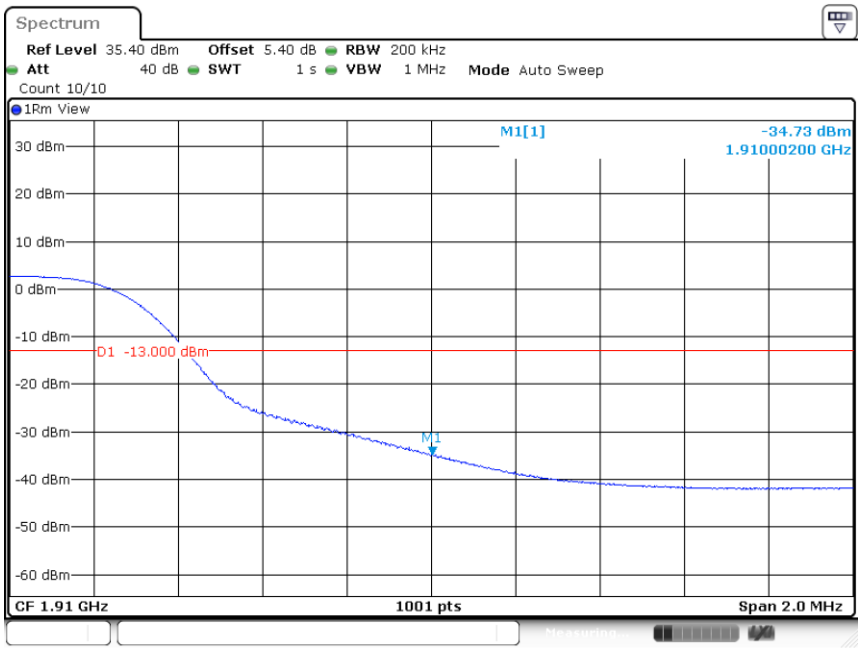
Band2-15MHz-QPSK-19125-75RB#0



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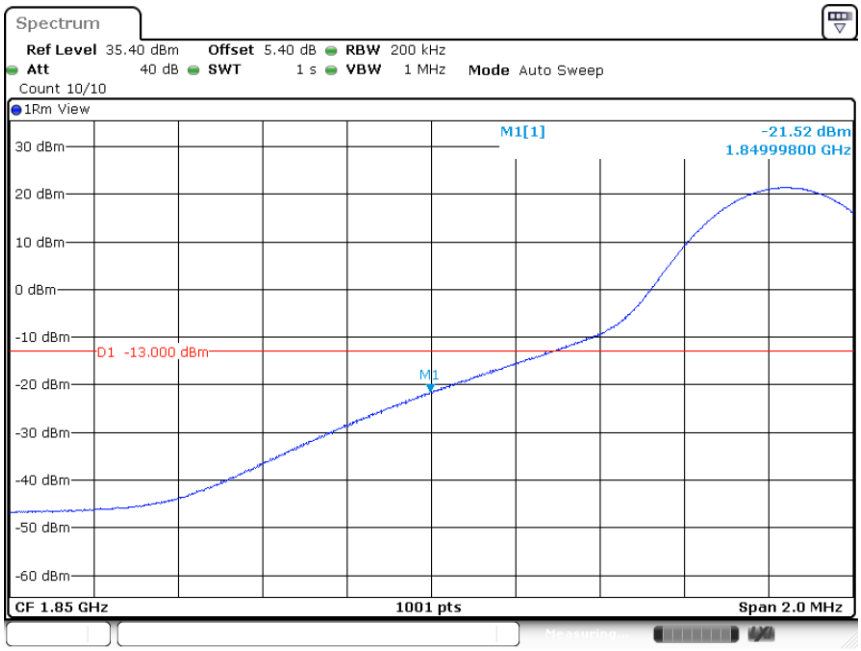
Band2-15MHz-64QAM-18675-1RB#0



Date: 13.APR.2021 23:50:00

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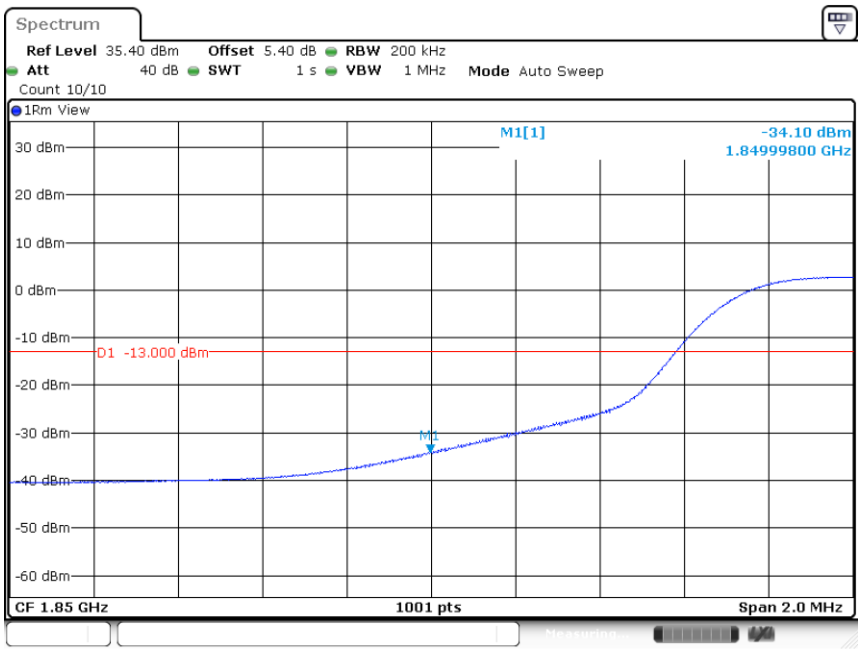
Band2-15MHz-64QAM-18675-75RB#0



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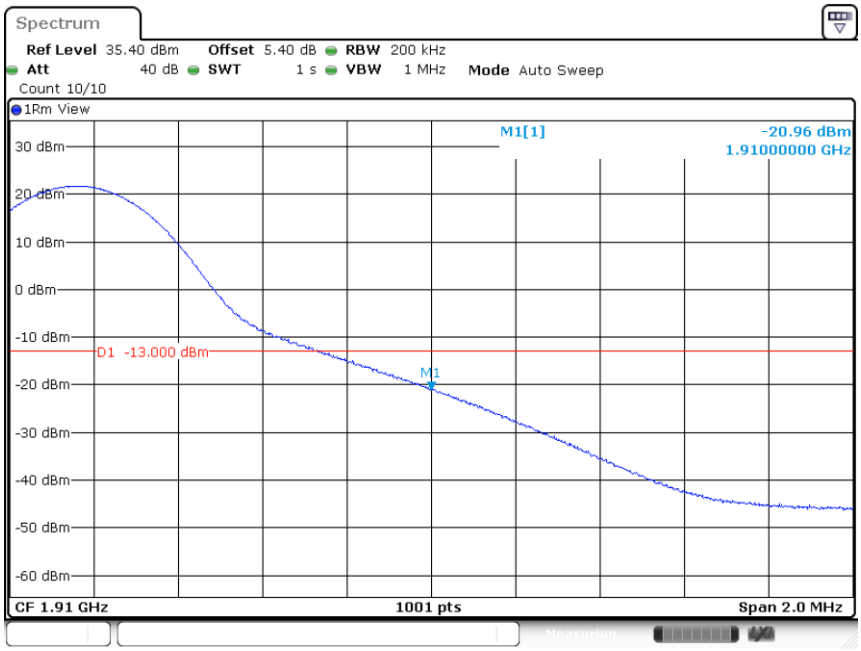
Band2-15MHz-64QAM-19125-1RB#74



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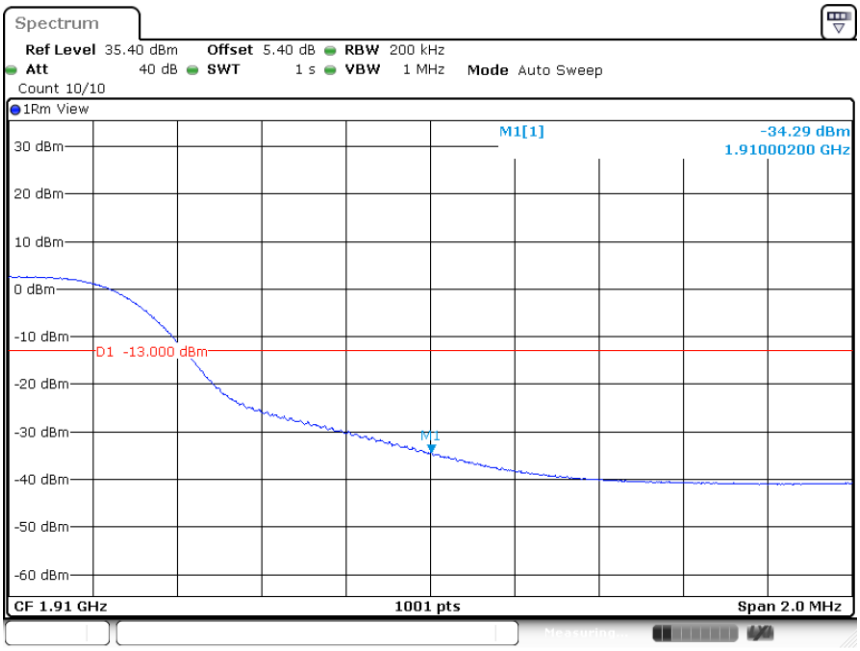

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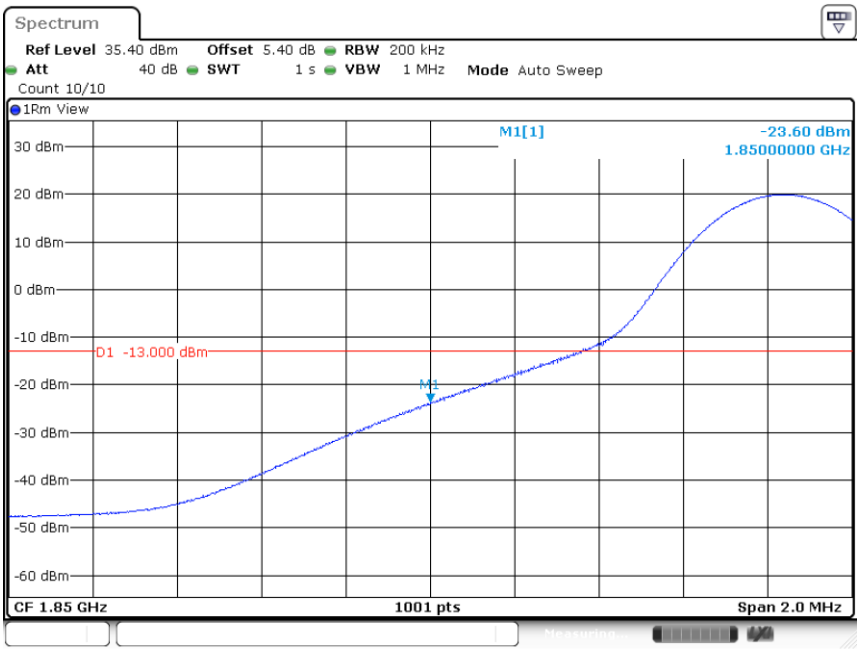
Band2-15MHz-16QAM-18675-1RB#0



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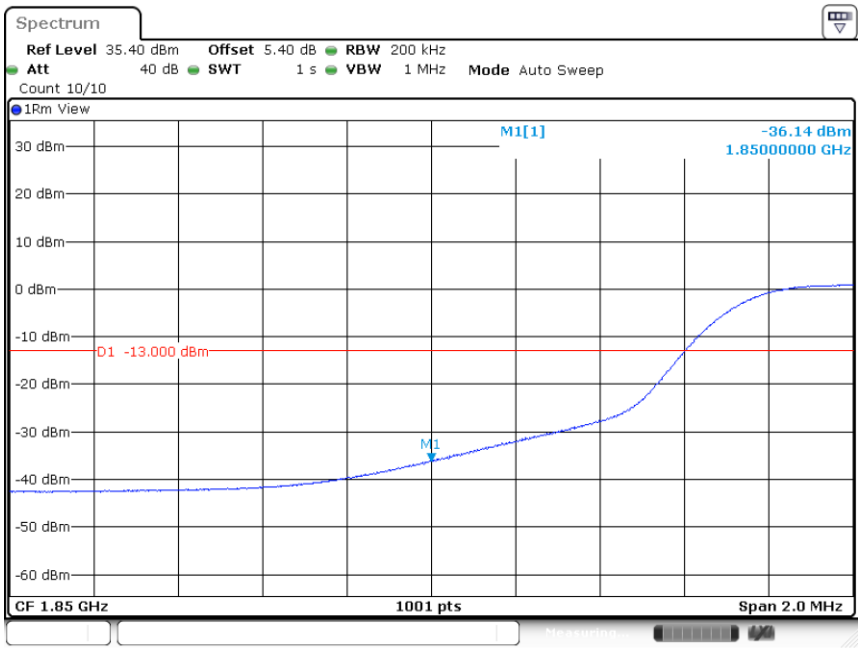

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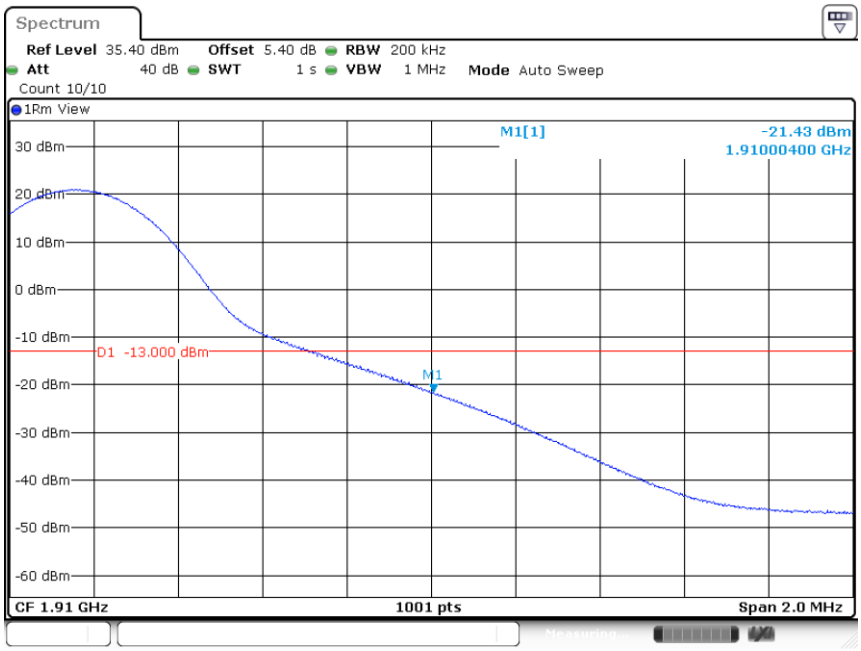
Band2-15MHz-16QAM-19125-1RB#74



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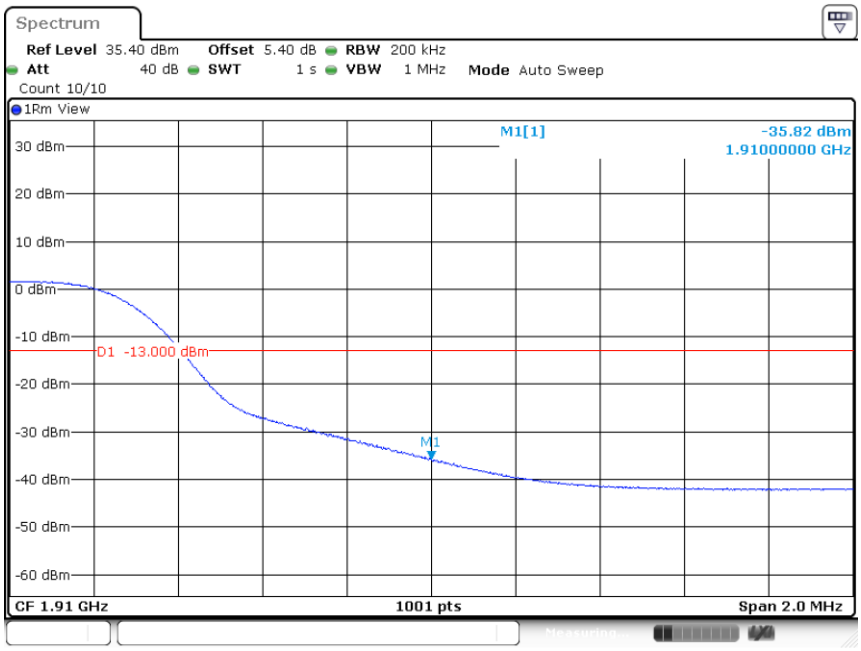

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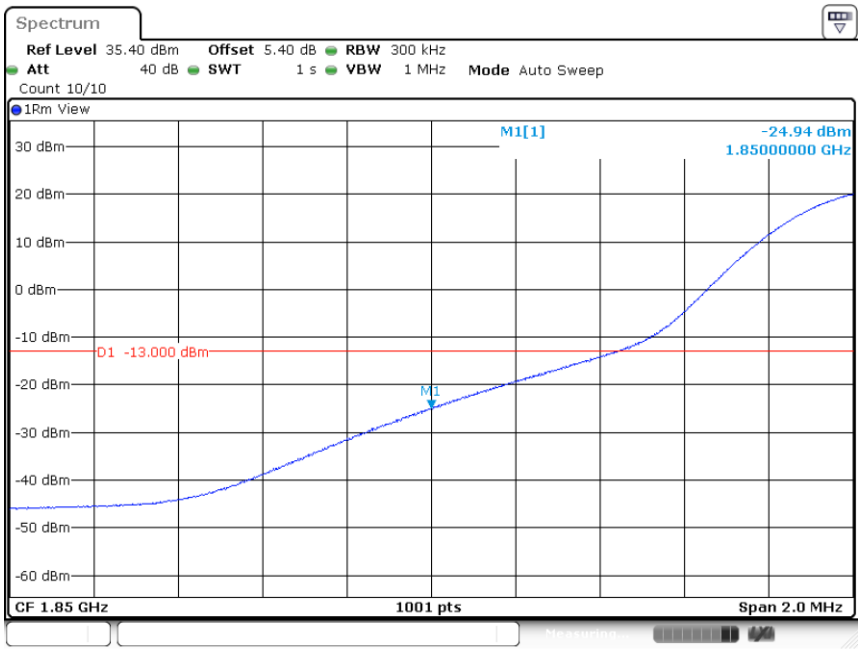
Band2-20MHz-QPSK-18700-1RB#0



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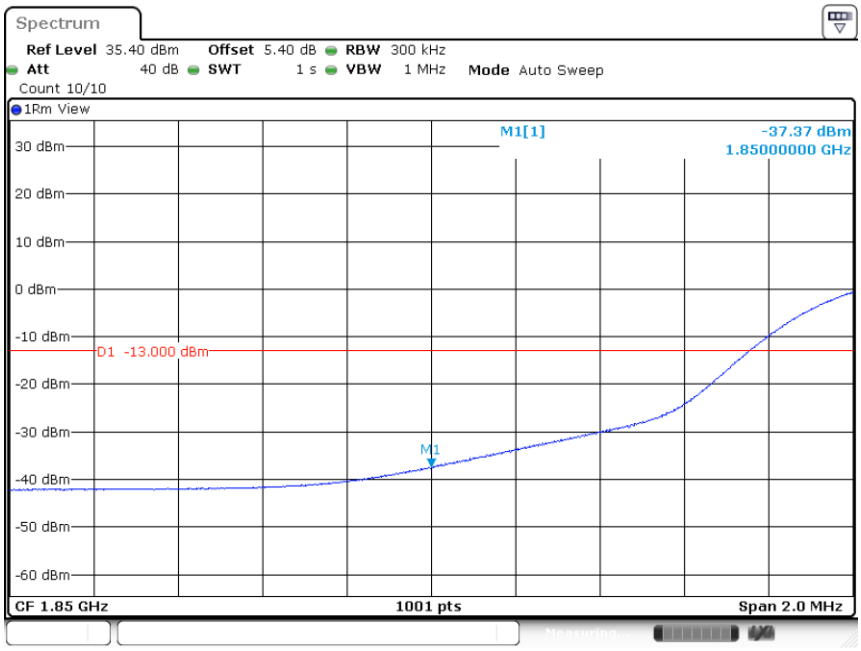
Band2-20MHz-QPSK-18700-100RB#0



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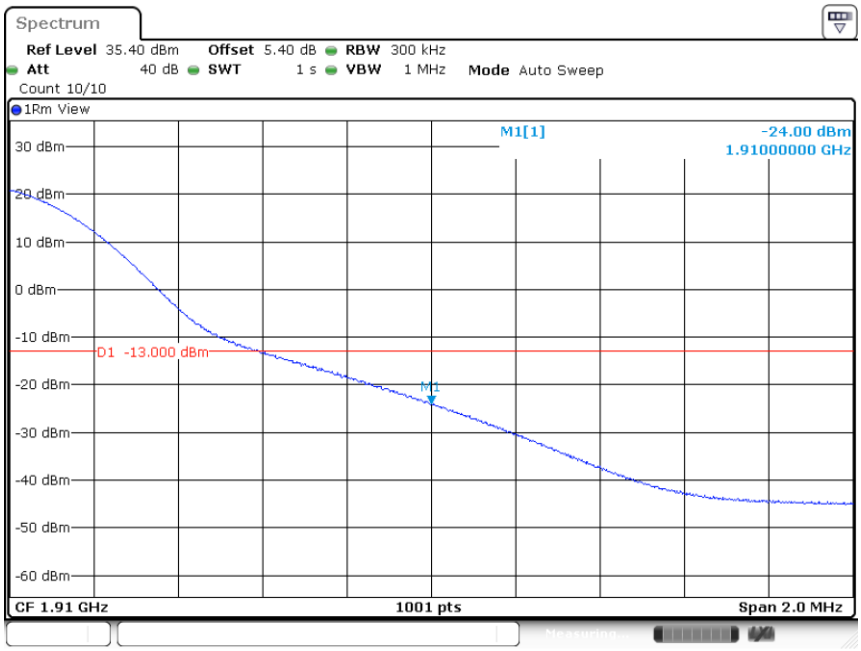

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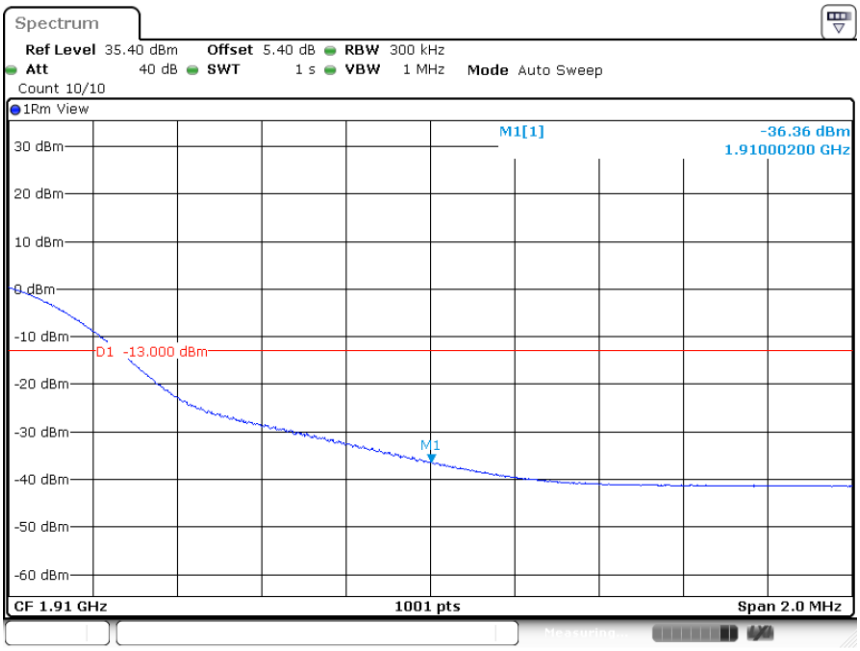
Band2-20MHz-QPSK-19100-100RB#0



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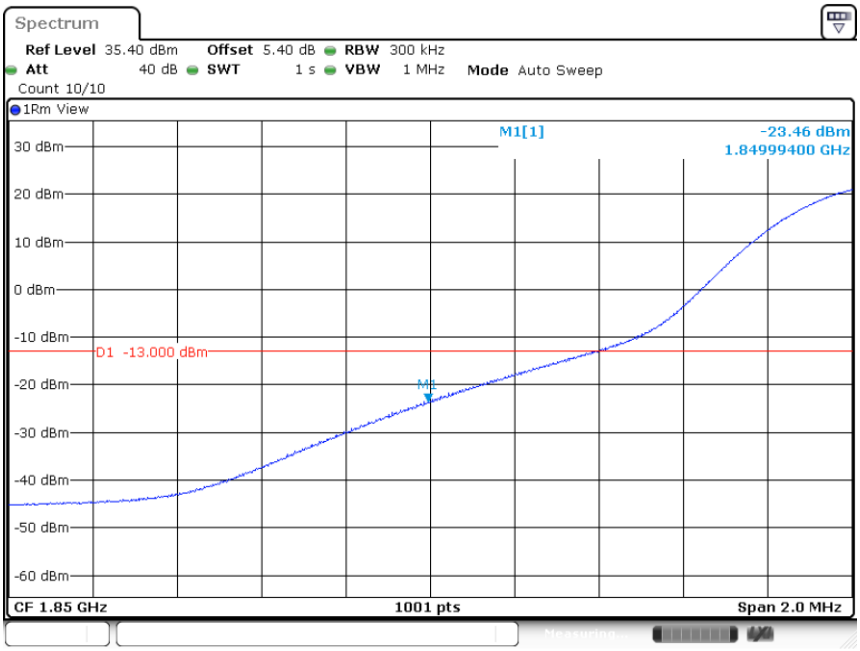
Band2-20MHz-64QAM-18700-1RB#0



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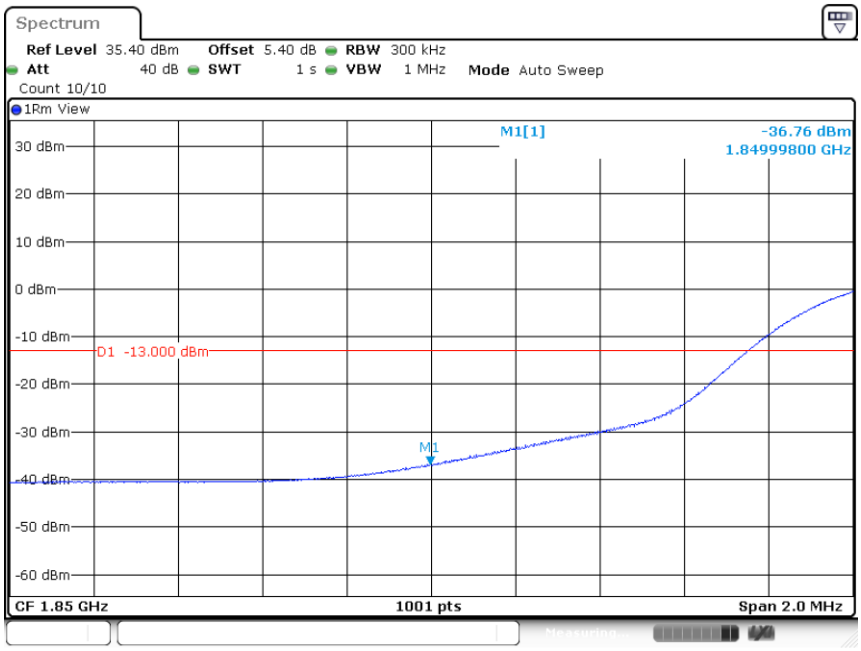
Band2-20MHz-64QAM-18700-100RB#0



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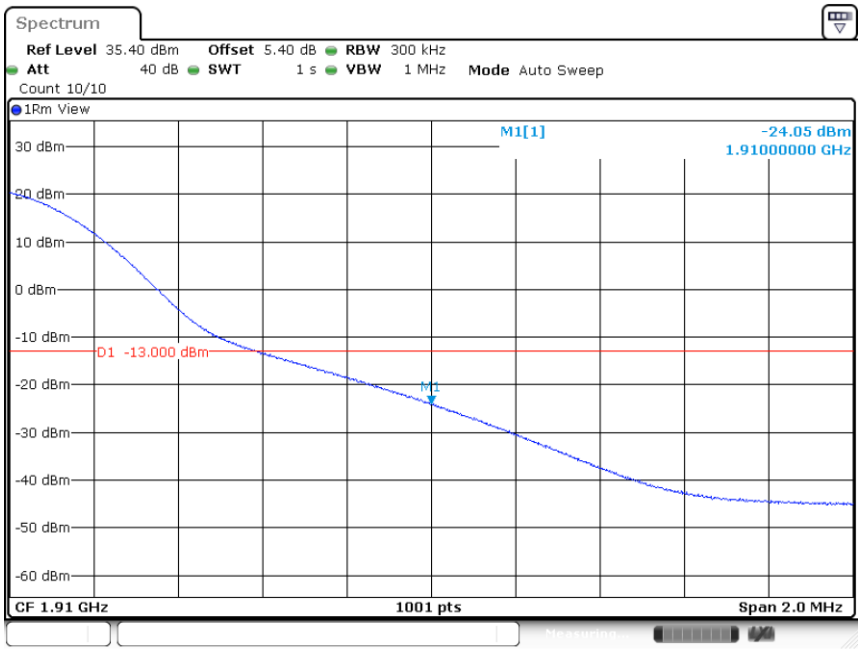
Band2-20MHz-64QAM-19100-1RB#99



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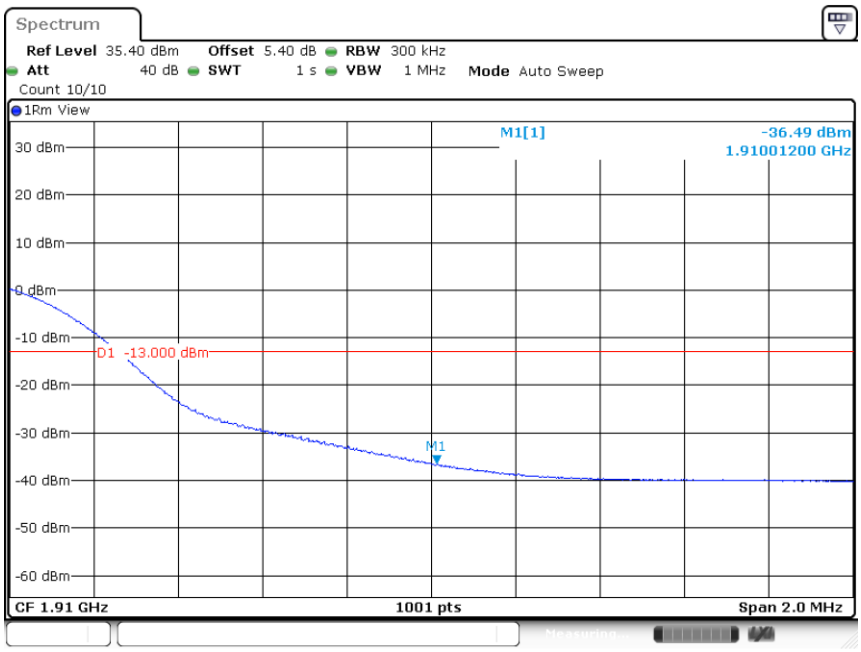
Band2-20MHz-64QAM-19100-100RB#0



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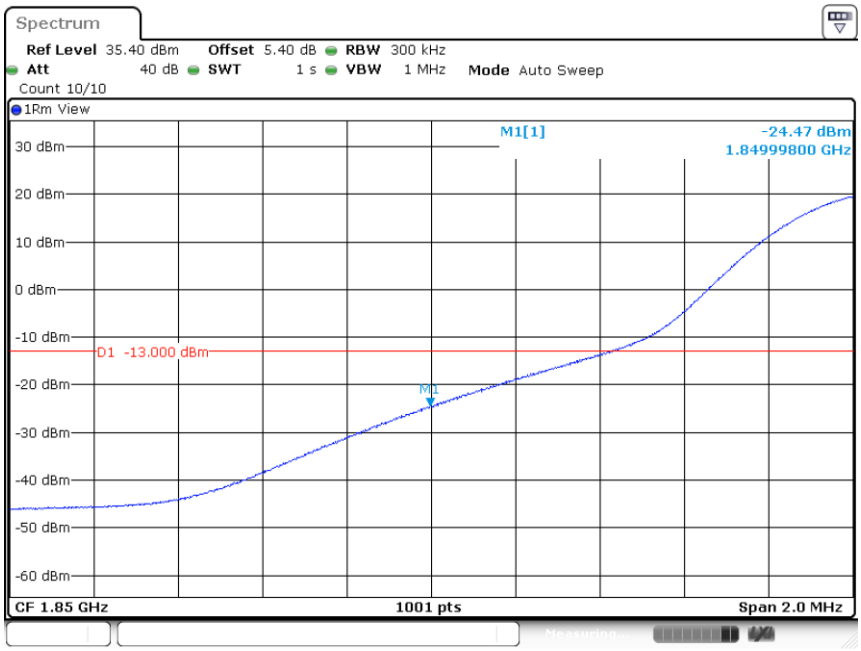
Band2-20MHz-16QAM-18700-1RB#0



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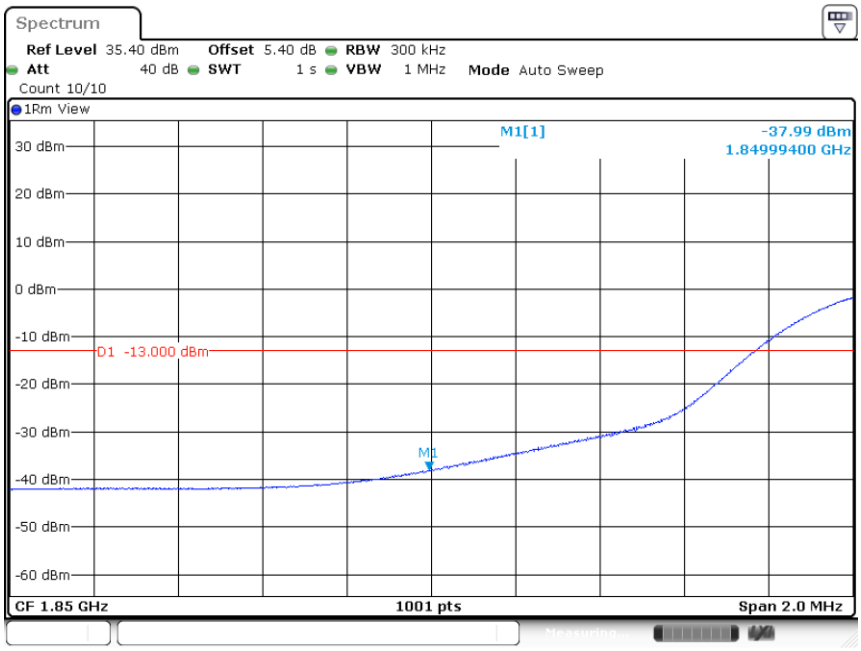
Band2-20MHz-16QAM-18700-100RB#0



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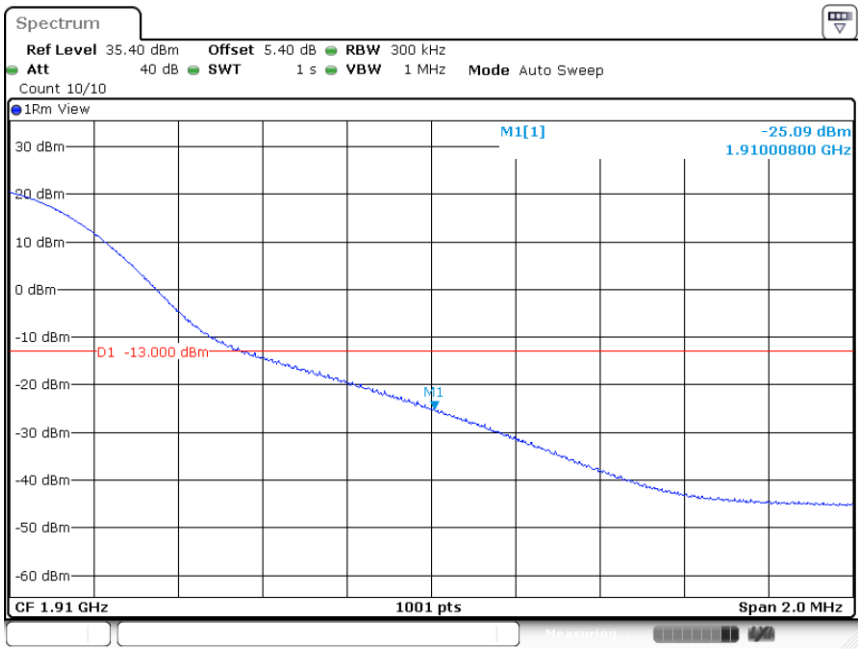
Band2-20MHz-16QAM-19100-1RB#99



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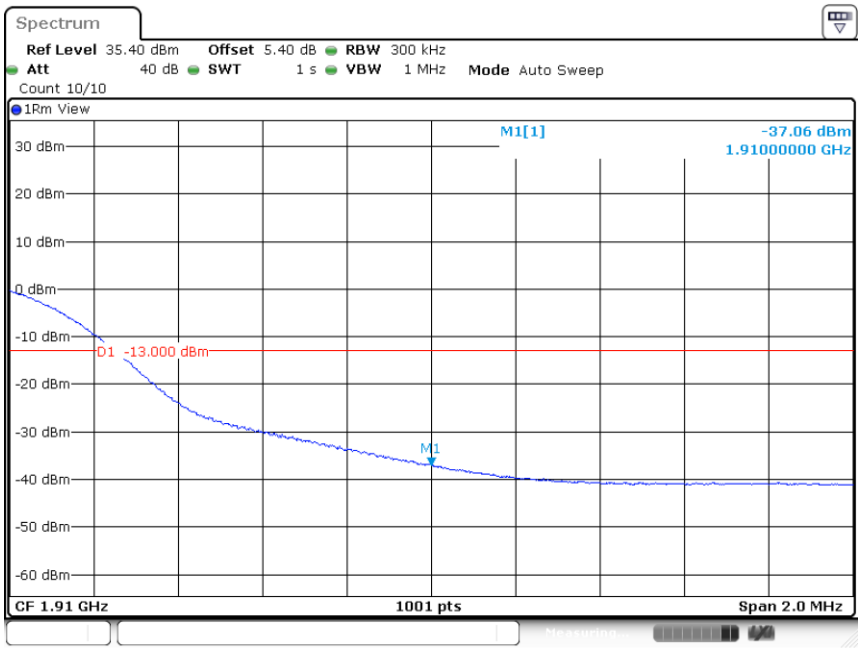
Band2-20MHz-16QAM-19100-100RB#0



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6. Spurious Emission at Antenna Terminal

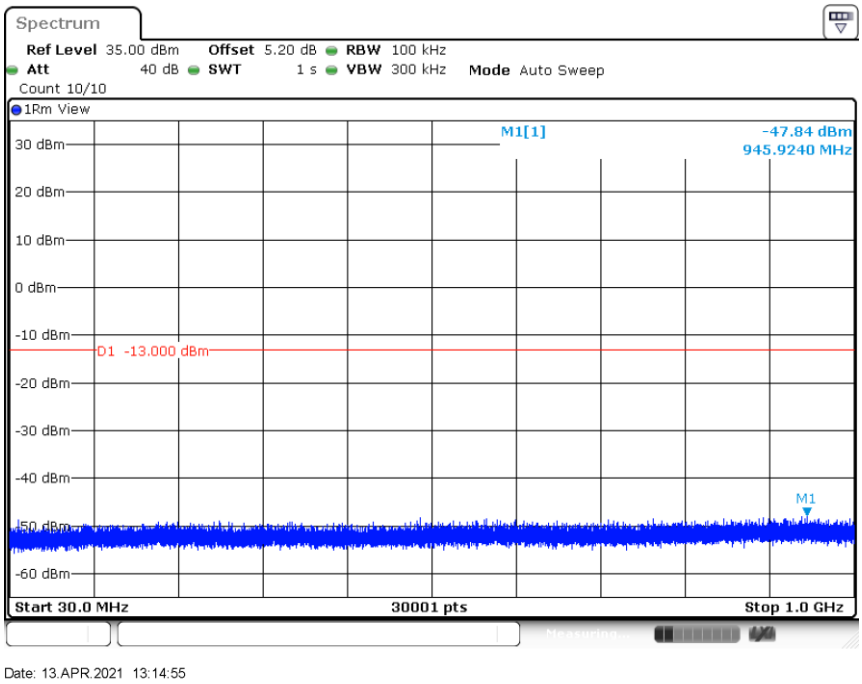
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k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

Remark2: 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

Band2-20MHz-QPSK-18700-1RB#0-Range1:30~1000MHz



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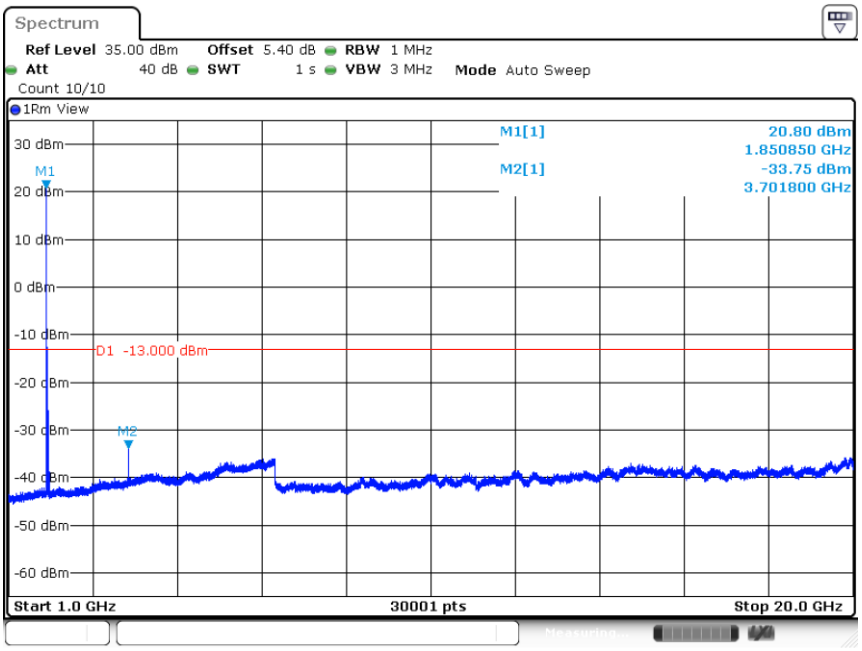
Band2-20MHz-QPSK-18700-1RB#0-Range2:1000~20000MHz



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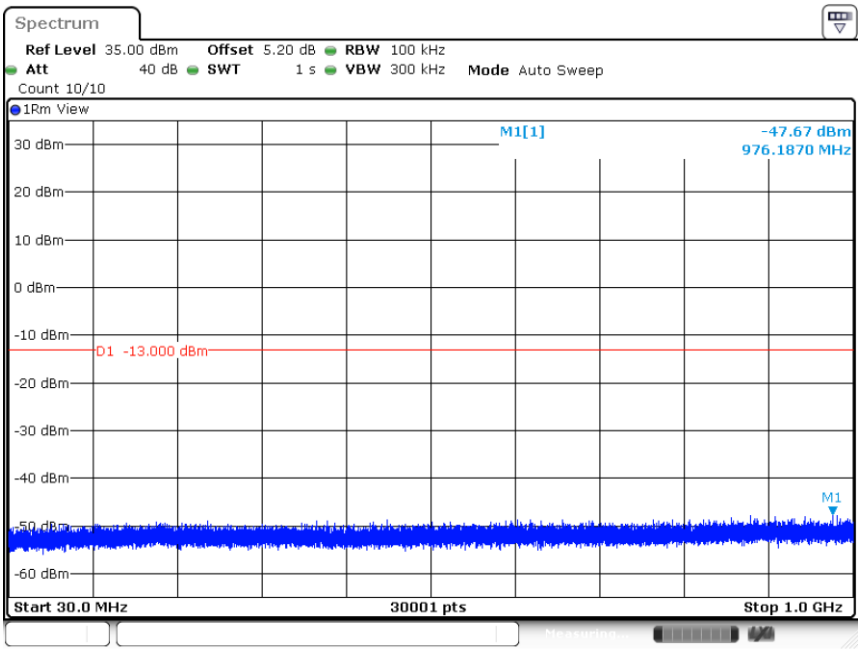
Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz



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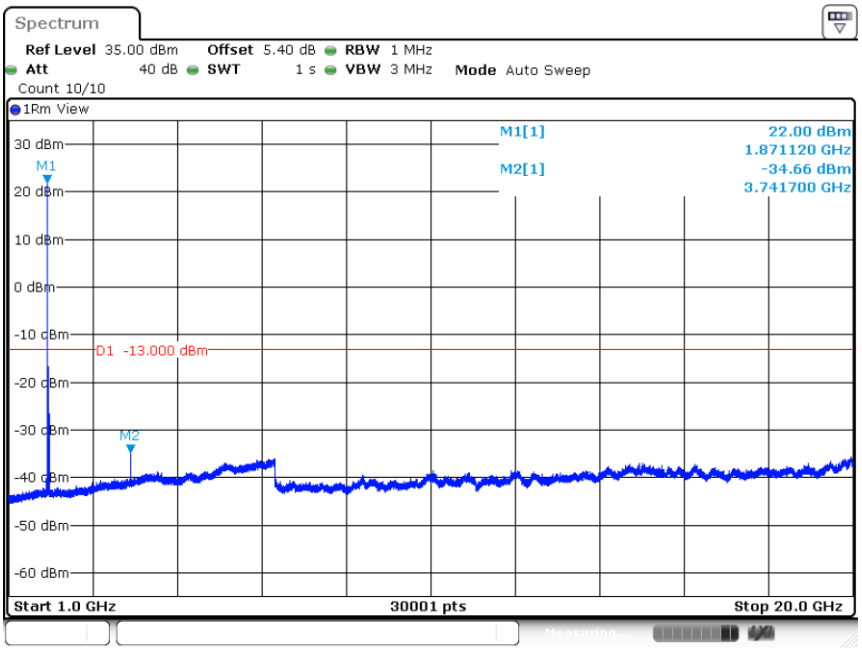
Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



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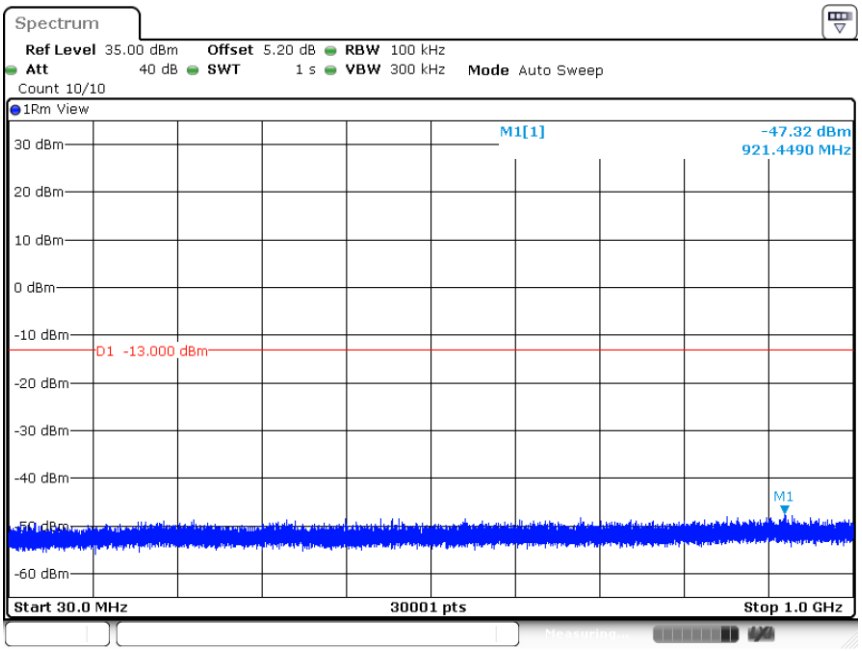
Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz



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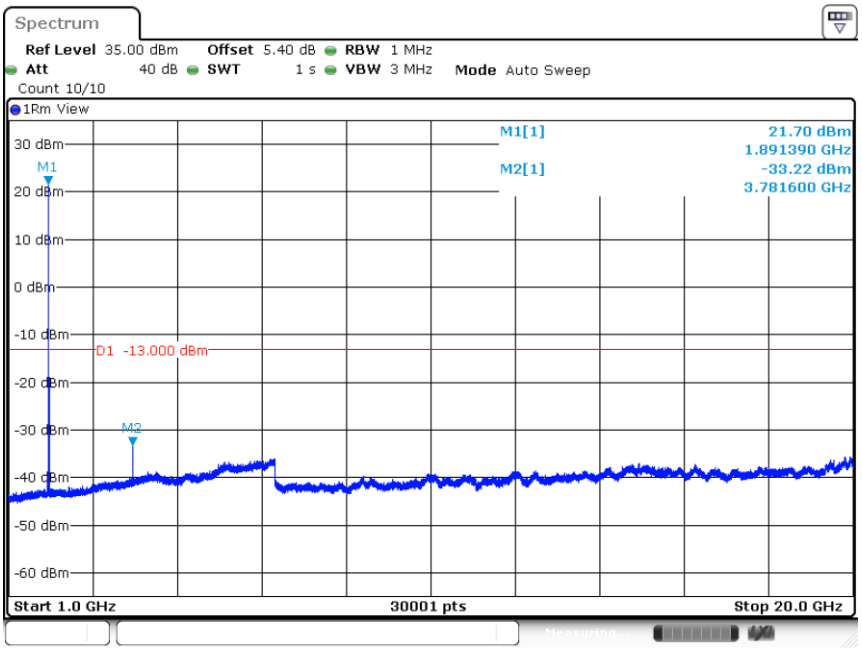
Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz



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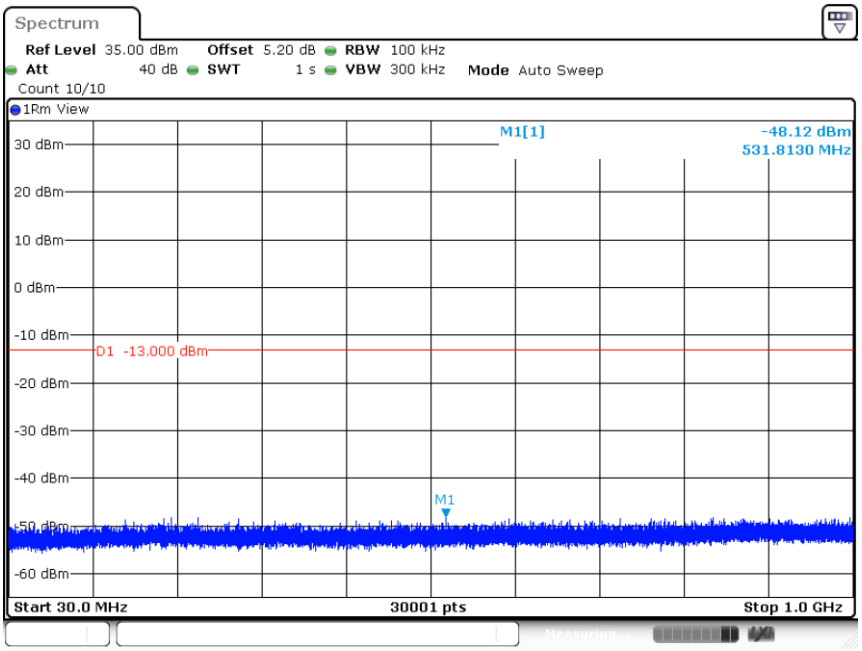
Band2-20MHz-64QAM-18700-1RB#0-Range1:30~1000MHz



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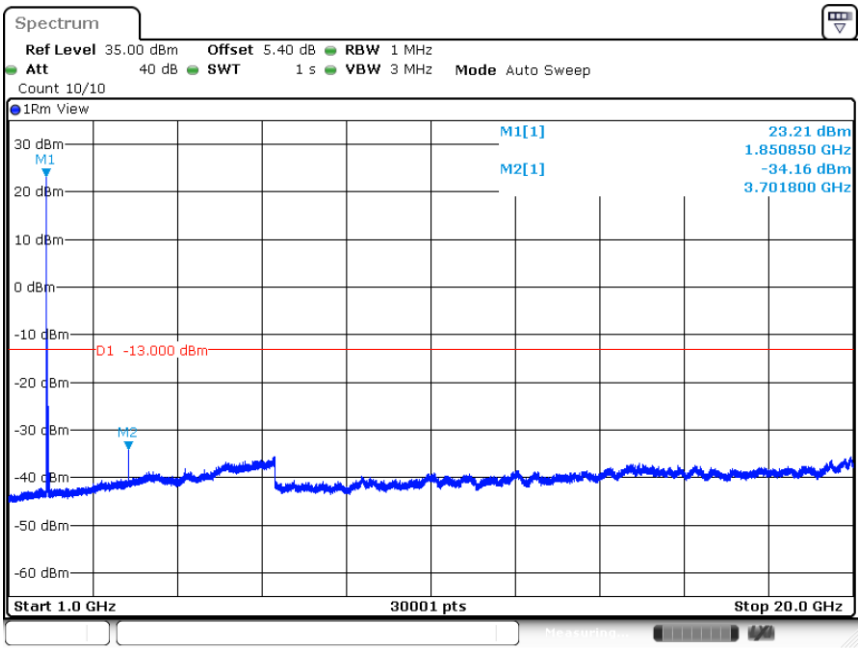

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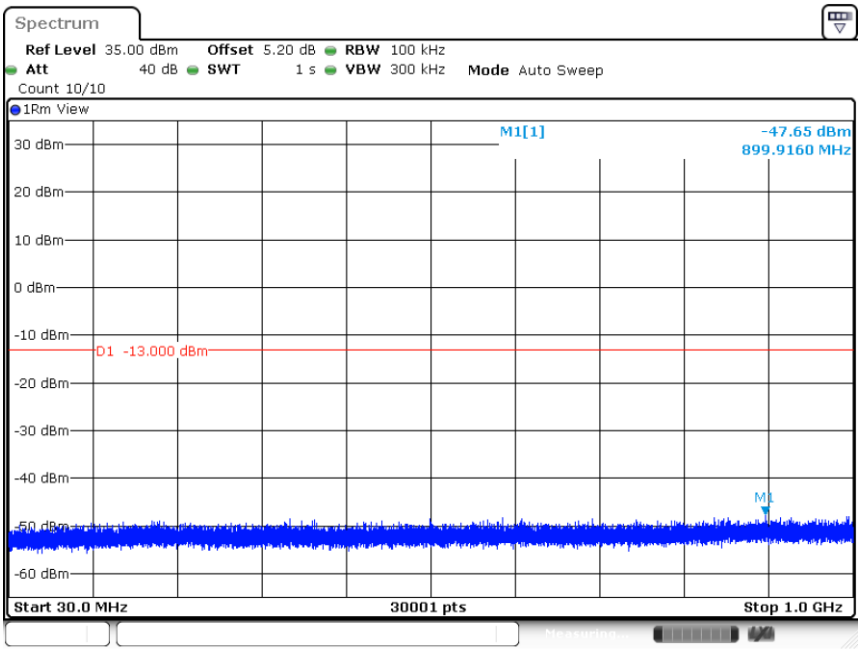

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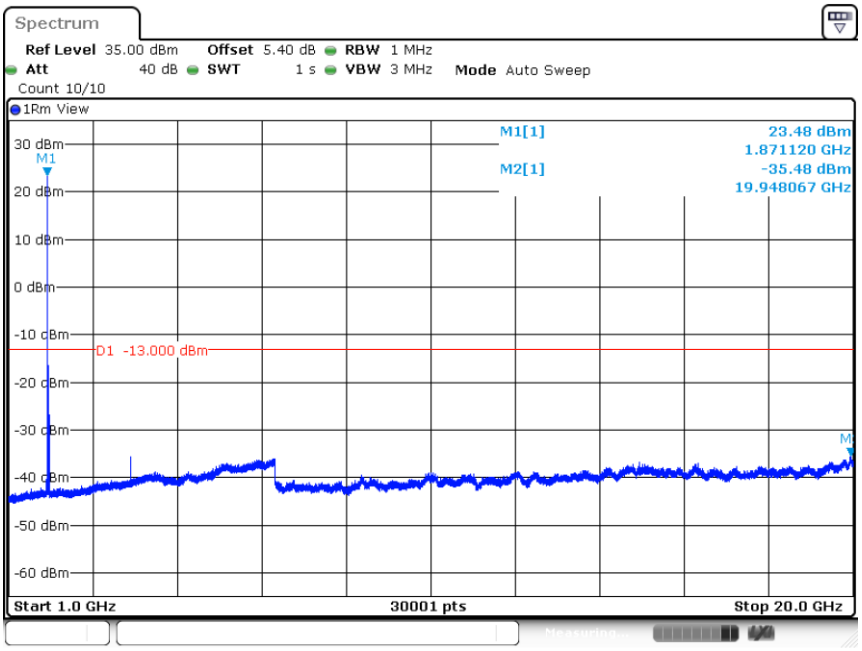

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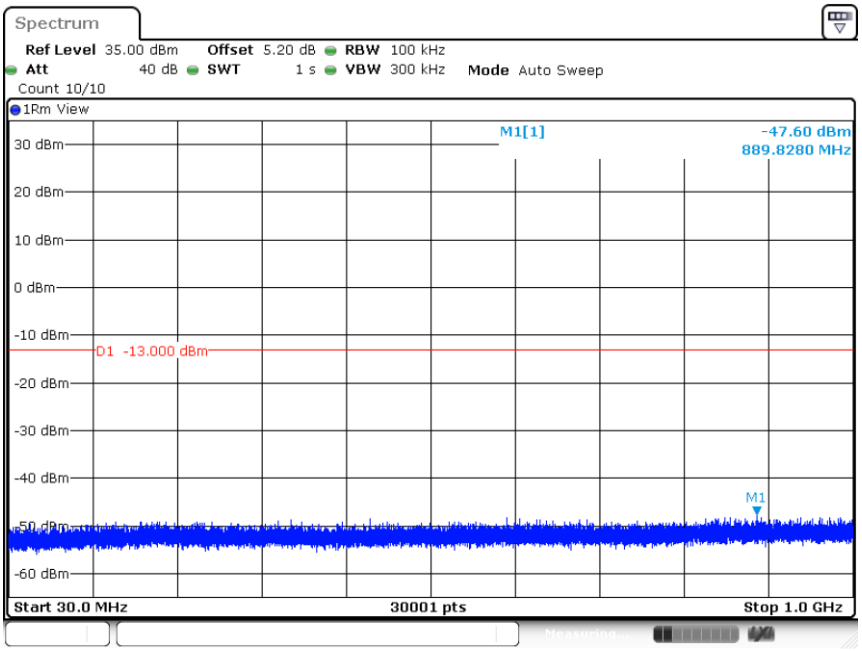

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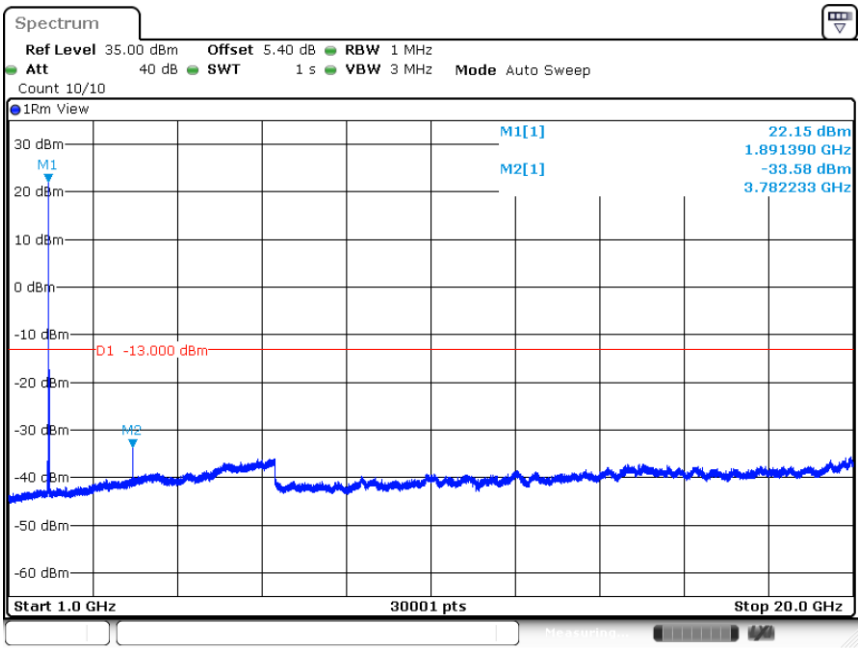

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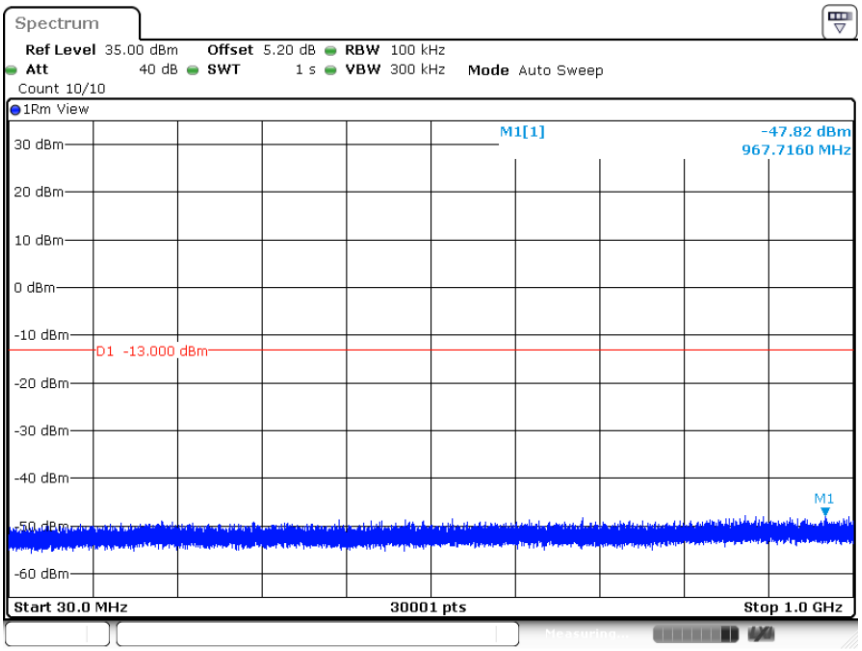
Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



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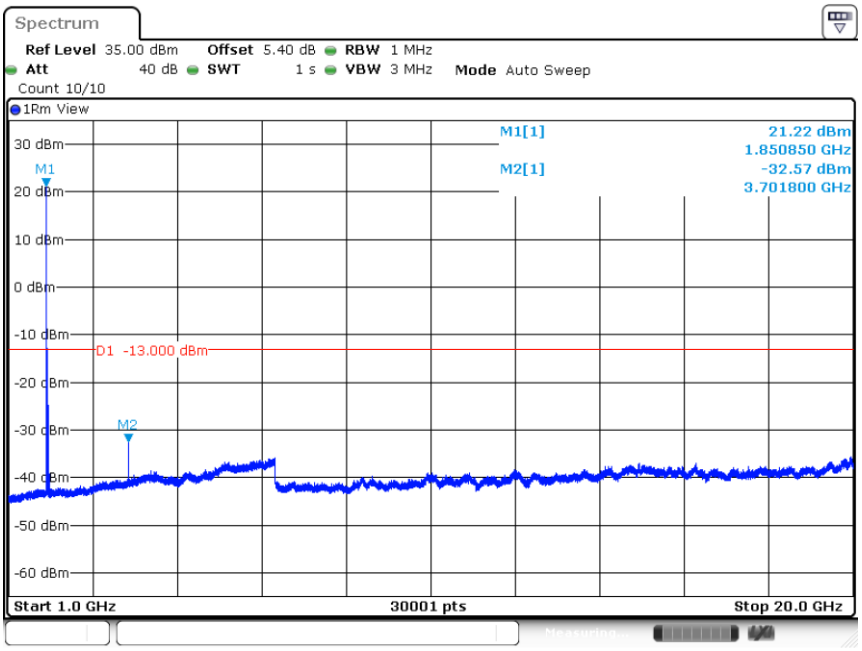
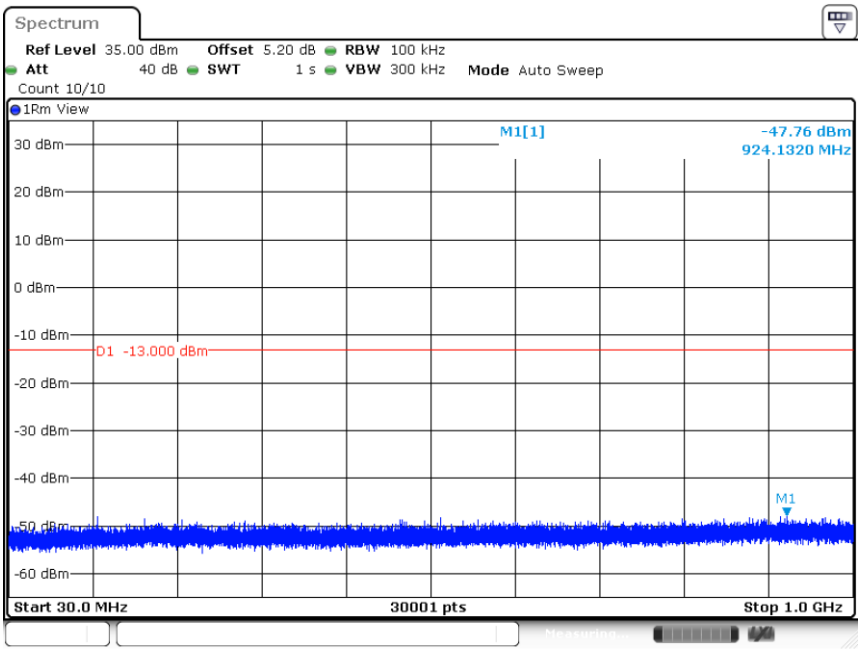

Date: 13.APR.2021 13:15:47

Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz

Date: 13.APR.2021 13:16:41

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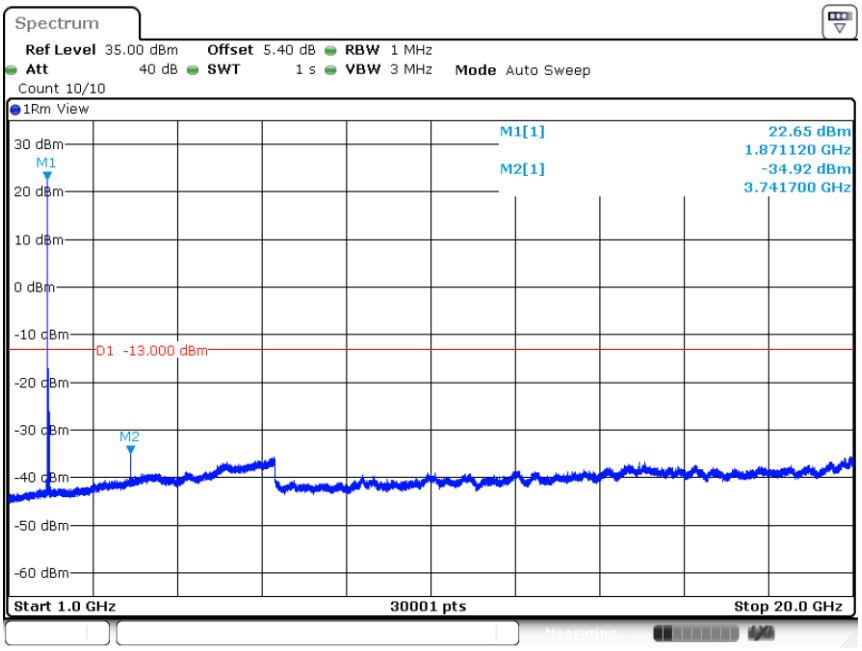
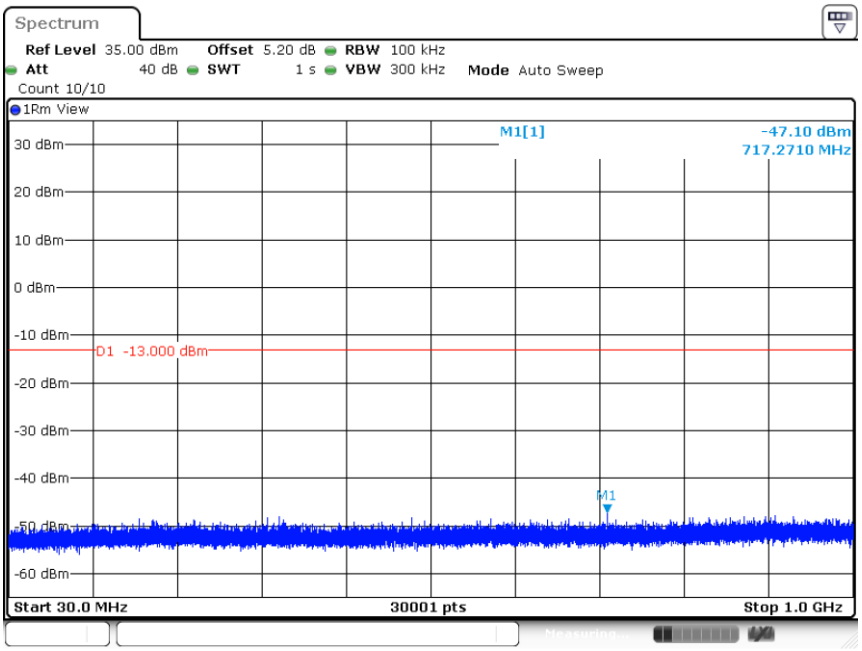
Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz



Date: 13.APR.2021 13:16:57

Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz



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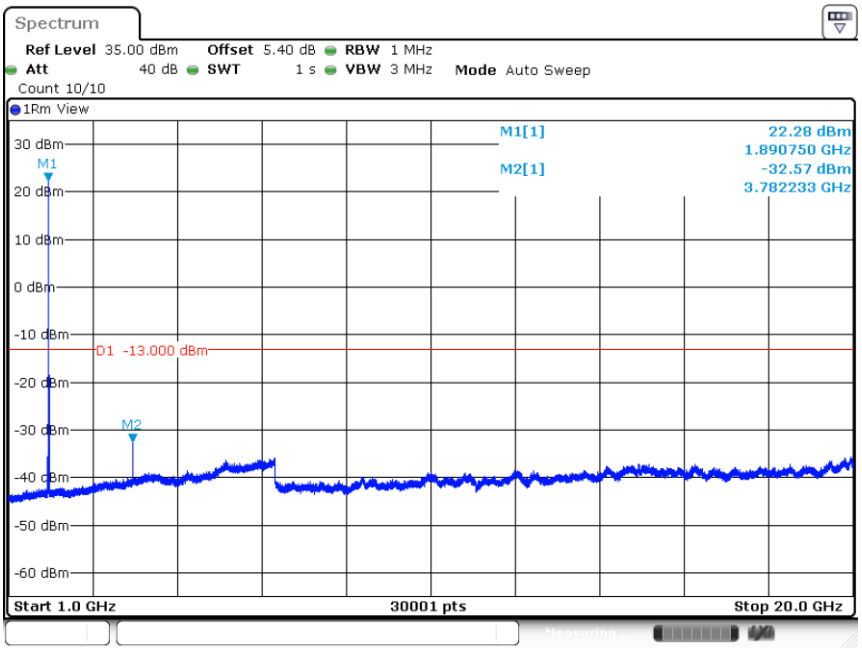
Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Band LTE_Band2 _TM1

7.1.1. Test Channel Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.4537	-87.89	-78.80	-13.00	65.80	Horizontal
2	241.3251	-86.69	-82.27	-13.00	69.27	Horizontal
3	607.4699	-84.12	-74.40	-13.00	61.40	Horizontal
4	3702.0234	-32.46	-39.68	-13.00	26.68	Horizontal
5	5553.0851	-52.69	-54.24	-13.00	41.24	Horizontal
6	7404.6468	-50.74	-49.66	-13.00	36.66	Horizontal

7.2. Test Band LTE_Band2 _TM1

7.2.1. Test Channel Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.5625	-86.13	-77.27	-13.00	64.27	Vertical
2	417.0979	-86.62	-81.36	-13.00	68.36	Vertical
3	3702.0234	-38.43	-46.45	-13.00	33.45	Vertical
4	5553.0851	-50.89	-52.86	-13.00	39.86	Vertical
5	7404.6468	-47.10	-45.42	-13.00	32.42	Vertical
6	14290.376	-59.38	-45.61	-13.00	32.61	Vertical

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7.3. Test Band LTE_Band2 _TM1

7.3.1. Test Channel Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.6220	-87.10	-78.20	-13.00	65.20	Horizontal
2	247.1939	-86.07	-81.36	-13.00	68.36	Horizontal
3	1358.8718	-79.60	-60.26	-13.00	47.26	Horizontal
4	3742.0247	-31.37	-38.06	-13.00	25.06	Horizontal
5	7484.6495	-49.05	-47.21	-13.00	34.21	Horizontal
6	16398.446	-58.37	-42.53	-13.00	29.53	Horizontal

7.4. Test Band LTE_Band2 _TM1

7.4.1. Test Channel Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.9020	-87.41	-78.58	-13.00	65.58	Vertical
2	609.6040	-85.64	-75.85	-13.00	62.85	Vertical
3	3742.0247	-38.90	-46.29	-13.00	33.29	Vertical
4	7484.1495	-43.71	-41.71	-13.00	28.71	Vertical
5	14689.389	-59.12	-45.48	-13.00	32.48	Vertical
6	17991.499	-57.77	-38.31	-13.00	25.31	Vertical

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7.5. Test Band LTE_Band2 _TM1

7.5.1. Test Channel High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.5735	-87.36	-78.46	-13.00	65.46	Horizontal
2	497.6119	-85.34	-78.13	-13.00	65.13	Horizontal
3	3782.0261	-32.86	-39.58	-13.00	26.58	Horizontal
4	5673.0891	-47.84	-48.83	-13.00	35.83	Horizontal
5	7564.1521	-48.28	-47.21	-13.00	34.21	Horizontal
6	16397.446	-58.34	-42.55	-13.00	29.55	Horizontal

7.6. Test Band LTE_Band2 _TM1

7.6.1. Test Channel High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.5140	-86.87	-78.00	-13.00	65.00	Vertical
2	558.3369	-85.83	-78.50	-13.00	65.50	Vertical
3	3782.0261	-39.10	-46.43	-13.00	33.43	Vertical
4	5673.0891	-49.03	-50.64	-13.00	37.64	Vertical
5	7564.1521	-46.82	-45.58	-13.00	32.58	Vertical
6	17987.499	-58.13	-38.66	-13.00	25.66	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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	16.30	0.008763	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	18.00	0.009677	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	15.60	0.008387	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-10.50	-0.005585	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	4.50	0.002394	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-16.30	-0.008670	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	0.40	0.000211	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	4.70	0.002474	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-3.80	-0.002000	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VL	NT	-6.20	-0.003333	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VN	NT	-0.80	-0.000430	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VH	NT	-3.40	-0.001828	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VL	NT	-6.30	-0.003351	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VN	NT	-6.40	-0.003404	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VH	NT	-7.60	-0.004043	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VL	NT	-28.40	-0.014947	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VN	NT	20.00	0.010526	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VH	NT	-36.00	-0.018947	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	10.50	0.005645	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	0.60	0.000323	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	17.30	0.009301	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	13.20	0.007021	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	4.10	0.002181	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	13.60	0.007234	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-22.50	-0.011842	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-29.90	-0.015737	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-16.20	-0.008526	±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
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	22.00	0.011828	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	27.20	0.014624	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-10	31.90	0.017151	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	29.40	0.015806	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	30.10	0.016183	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	34.40	0.018495	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	37.90	0.020376	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	39.30	0.021129	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	47.20	0.025376	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-27.30	-0.014521	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-35.40	-0.018830	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-46.60	-0.024787	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-21.10	-0.011223	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-27.40	-0.014574	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-31.90	-0.016968	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-41.80	-0.022234	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-48.00	-0.025532	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	8.50	0.004521	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-12.30	-0.006474	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-13.40	-0.007053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-10	-15.80	-0.008316	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-23.10	-0.012158	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-27.20	-0.014316	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-26.40	-0.013895	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-27.50	-0.014474	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-29.20	-0.015368	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-24.00	-0.012632	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-30	-8.00	-0.004301	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-20	-1.50	-0.000806	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-10	-9.70	-0.005215	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	0	1.90	0.001022	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	10	-1.40	-0.000753	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	20	-12.30	-0.006613	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	30	-8.40	-0.004516	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	40	-8.70	-0.004677	±2.5	PASS

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Band2	20MHz	64QAM	18700	100RB#0	NV	50	-5.60	-0.003011	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-30	-15.00	-0.007979	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-20	-9.40	-0.005000	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-10	-12.30	-0.006543	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	0	-8.80	-0.004681	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	10	-19.20	-0.010213	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	20	-11.80	-0.006277	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	30	-19.30	-0.010266	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	40	-19.90	-0.010585	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	50	-23.30	-0.012394	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-30	-36.90	-0.019421	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-20	-35.30	-0.018579	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-10	-28.20	-0.014842	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	0	-38.70	-0.020368	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	10	-32.90	-0.017316	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	20	-21.80	-0.011474	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	30	-9.10	-0.004789	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	40	-39.40	-0.020737	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	50	-7.30	-0.003842	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	26.40	0.014194	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	33.20	0.017849	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-10	47.80	0.025699	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	-5.90	-0.003172	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	-1.00	-0.000538	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	3.90	0.002097	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	9.30	0.005000	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	17.50	0.009409	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	18.10	0.009731	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	20.90	0.011117	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	19.10	0.010160	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-10	28.20	0.015000	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	32.70	0.017394	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	37.80	0.020106	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	40.00	0.021277	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	34.30	0.018245	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	36.10	0.019202	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	39.30	0.020904	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-10.60	-0.005579	±2.5	PASS

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Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-1.40	-0.000737	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-10	0.30	0.000158	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	7.20	0.003789	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	12.70	0.006684	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	11.50	0.006053	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	16.00	0.008421	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	24.00	0.012632	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	21.70	0.011421	±2.5	PASS

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