Appendix B

WCDMA Band II & IV & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Modulation	Channel	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band II	QPSK	9262	22.77	22.64	33.00	PASS
Band II	QPSK	9400	22.74	22.61	33.00	PASS
Band II	QPSK	9538	22.83	22.70	33.00	PASS
Band II	16QAM	9262	19.04	18.91	33.00	PASS
Band II	16QAM	9400	19.39	19.26	33.00	PASS
Band II	16QAM	9538	19.25	19.12	33.00	PASS
Band IV	QPSK	1312	22.46	21.76	30.00	PASS
Band IV	QPSK	1413	22.51	21.81	30.00	PASS
Band IV	QPSK	1513	22.47	21.77	30.00	PASS
Band IV	16QAM	1312	19.51	18.81	30.00	PASS
Band IV	16QAM	1413	19.59	18.89	30.00	PASS
Band IV	16QAM	1513	19.49	18.79	30.00	PASS

Band	Modulation	Channel	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band V	QPSK	4132	21.17	17.48	38.45	PASS
Band V	QPSK	4182	21.20	17.51	38.45	PASS
Band V	QPSK	4233	21.26	17.57	38.45	PASS
Band V	16QAM	4132	18.07	14.38	38.45	PASS
Band V	16QAM	4182	18.18	14.49	38.45	PASS
Band V	16QAM	4233	18.36	14.67	38.45	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Modulation	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	QPSK	9262	3.01	13	PASS
Band II	QPSK	9400	3.01	13	PASS
Band II	QPSK	9538	2.96	13	PASS
Band II	16QAM	9262	3.04	13	PASS
Band II	16QAM	9400	2.96	13	PASS
Band II	16QAM	9538	2.72	13	PASS
Band IV	QPSK	1312	3.04	13	PASS
Band IV	QPSK	1413	3.07	13	PASS
Band IV	QPSK	1513	3.07	13	PASS
Band IV	16QAM	1312	2.93	13	PASS
Band IV	16QAM	1413	2.96	13	PASS
Band IV	16QAM	1513	2.90	13	PASS
Band V	QPSK	4132	2.72	13	PASS
Band V	QPSK	4182	2.72	13	PASS
Band V	QPSK	4233	2.72	13	PASS
Band V	16QAM	4132	2.14	13	PASS
Band V	16QAM	4182	2.14	13	PASS
Band V	16QAM	4233	2.58	13	PASS

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2.2. Test Plots for QPSK

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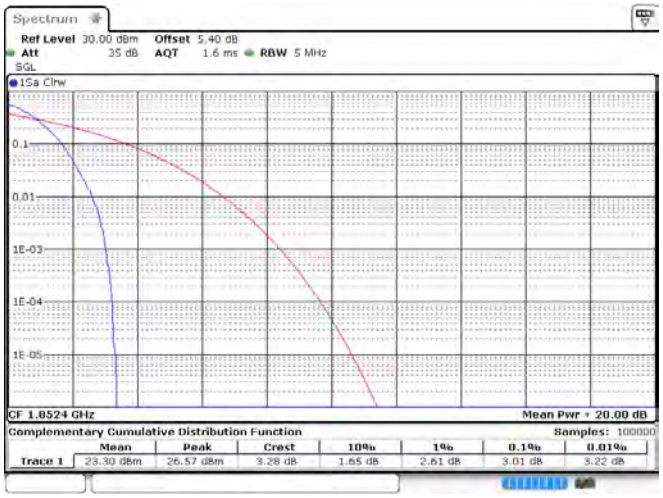
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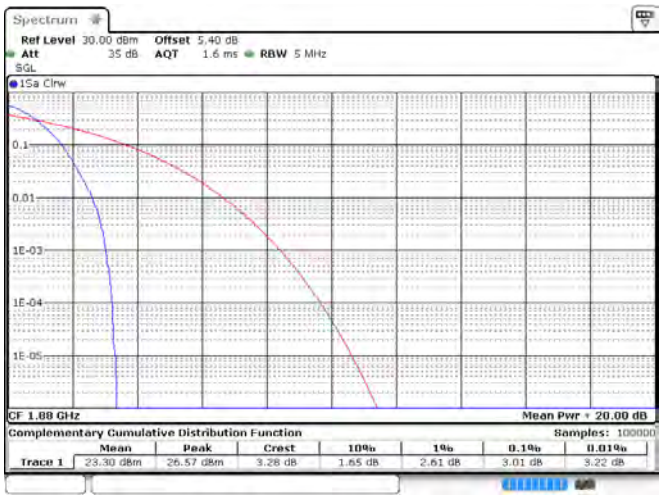
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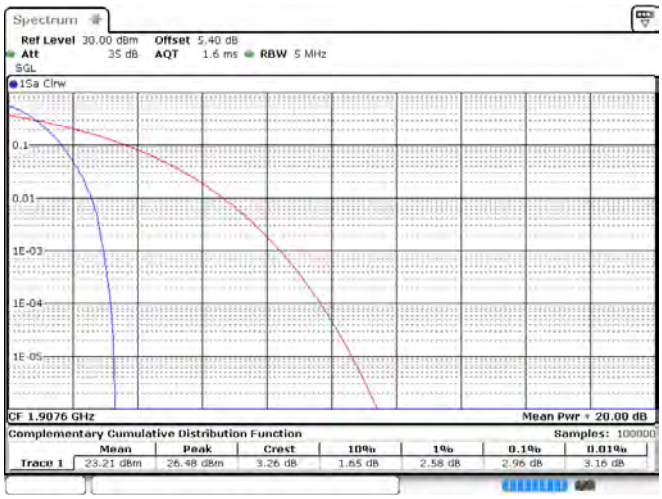

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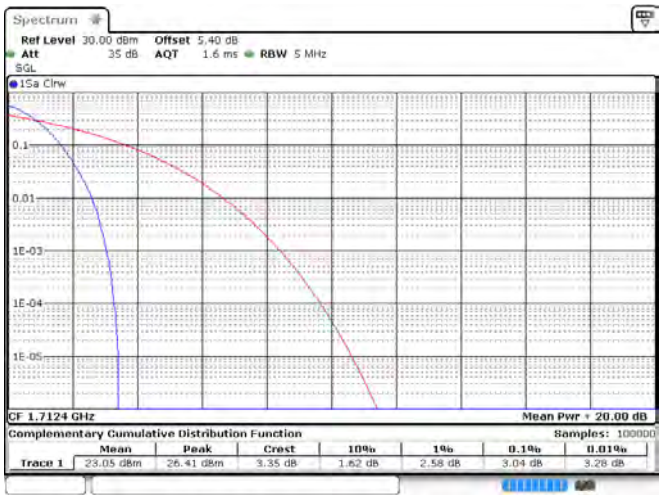

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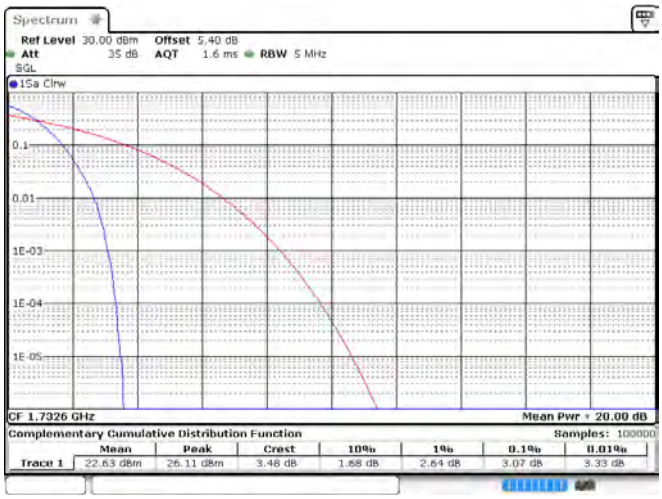

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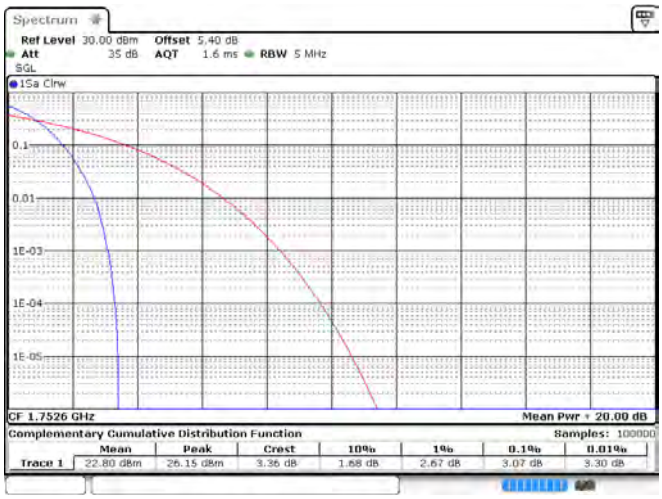

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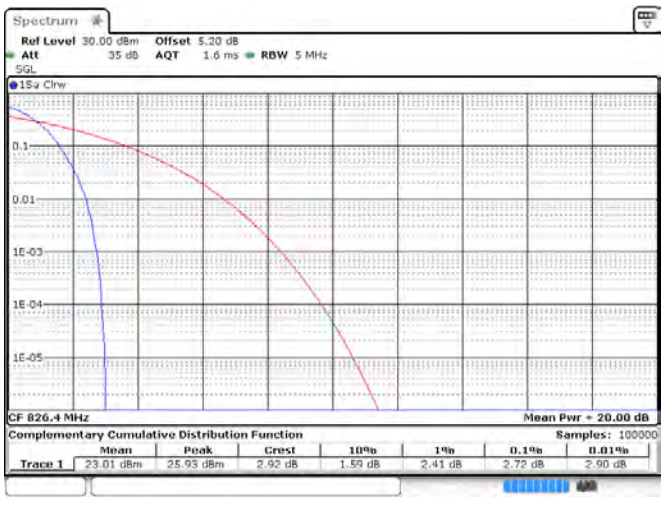

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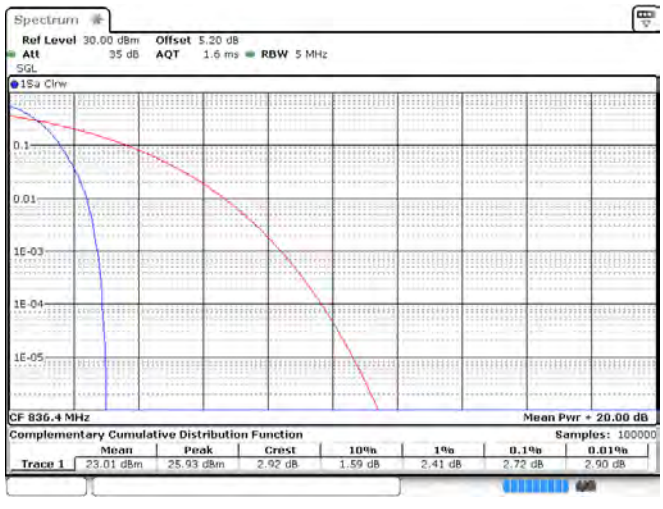

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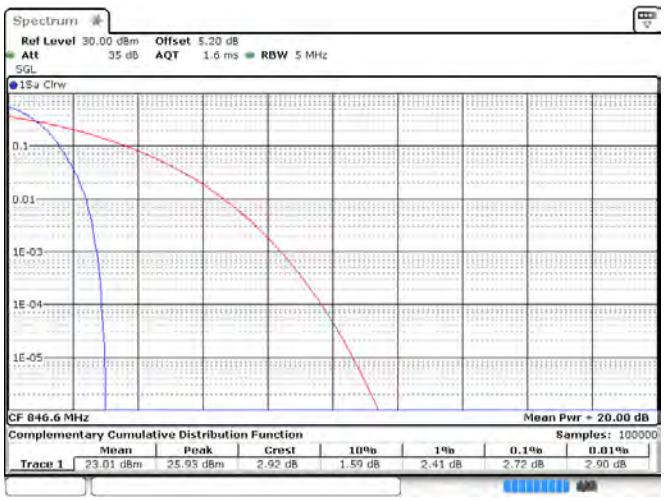

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2.3. Test Plots for 16QAM

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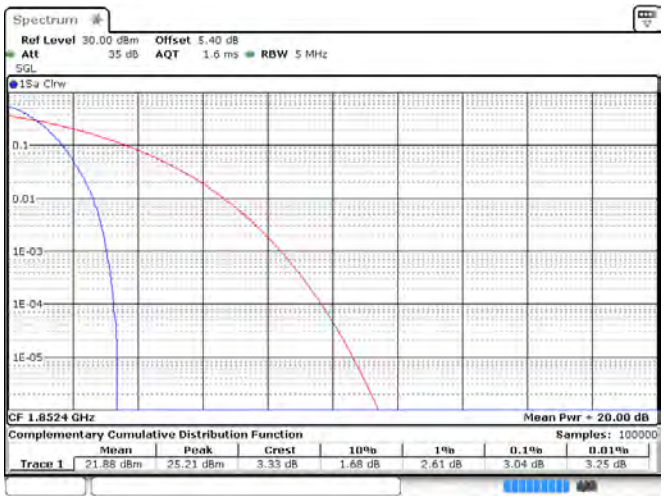

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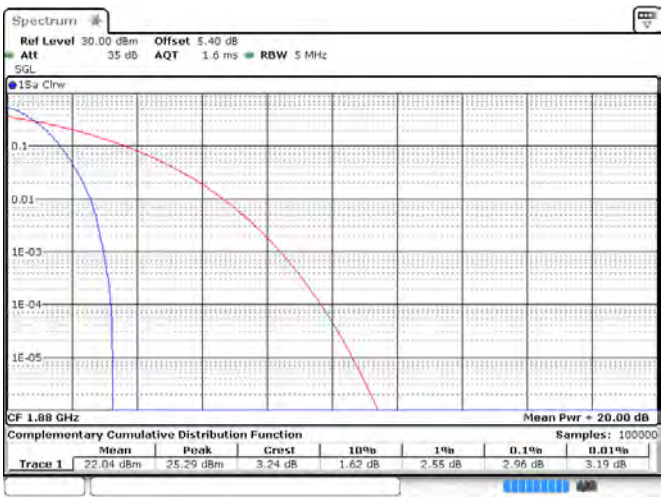

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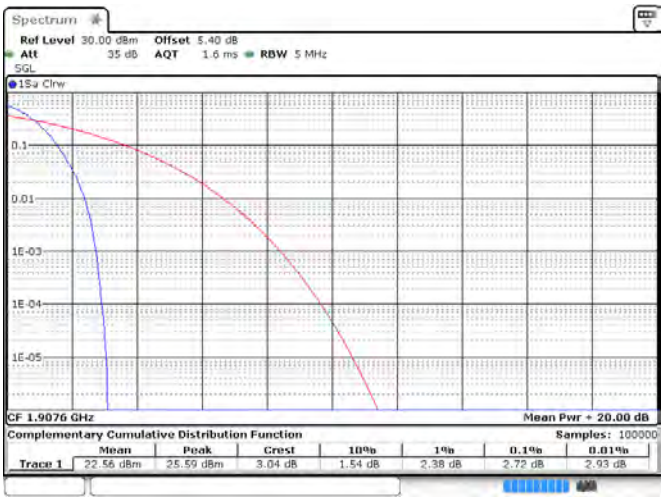

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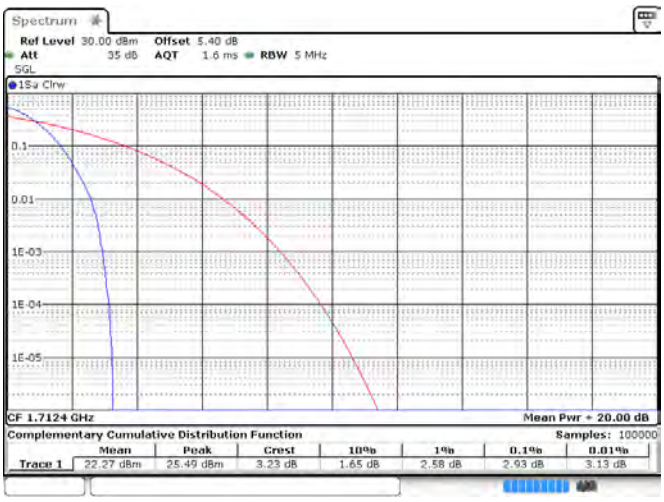

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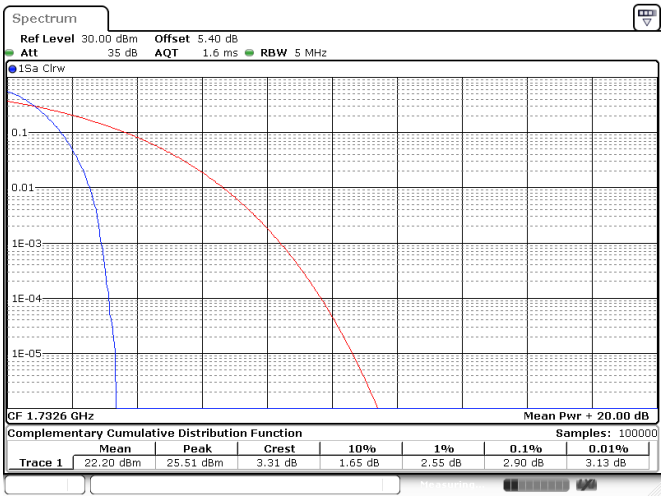

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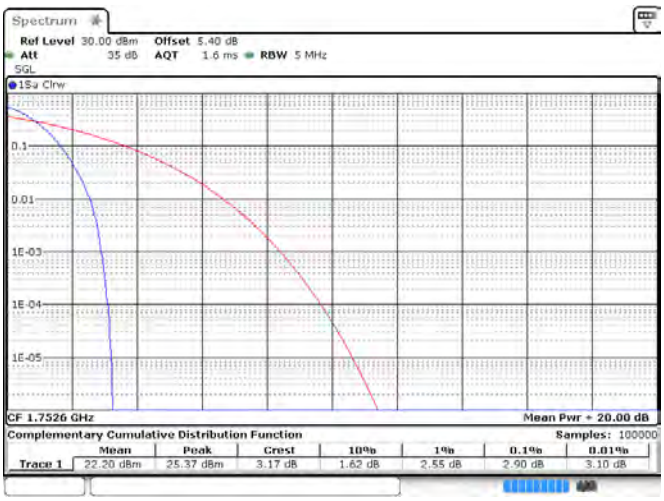

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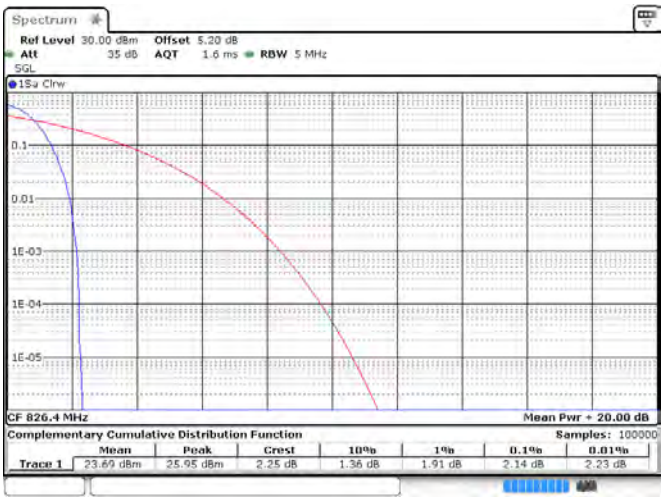

Band V_4182

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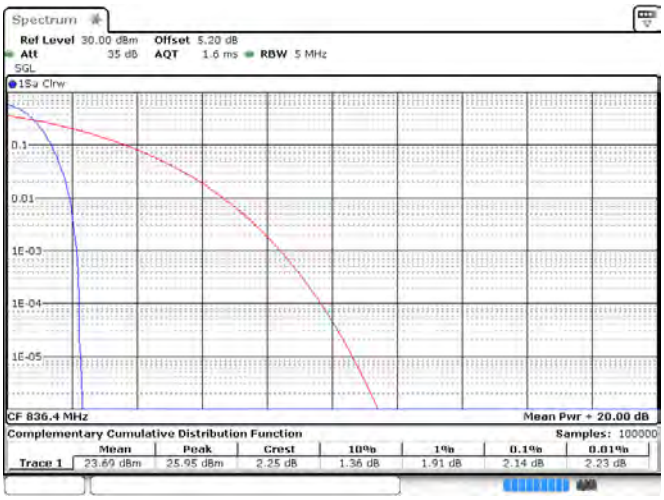
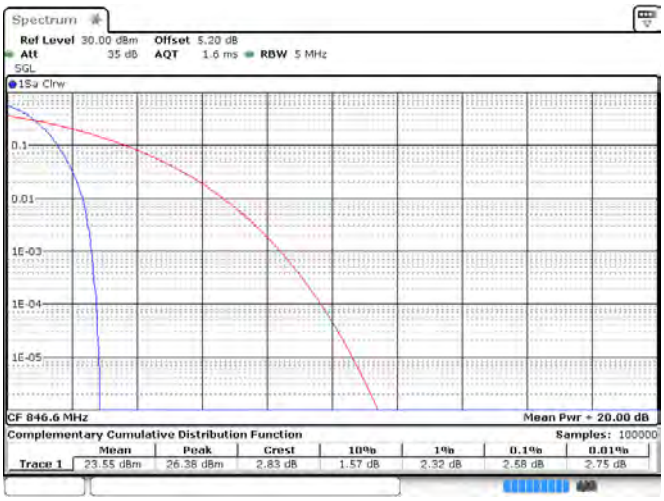


Date: 3.DEC 2019 23:32:16

Band V_4233



Date: 3.DEC 2019 23:32:29

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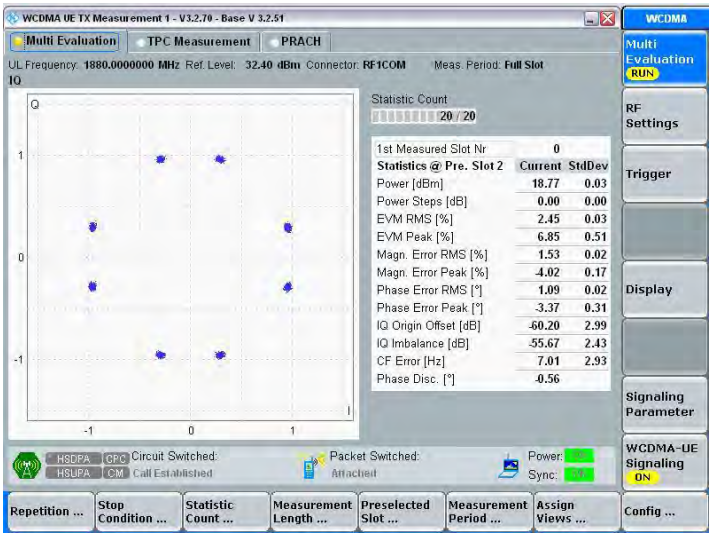
3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

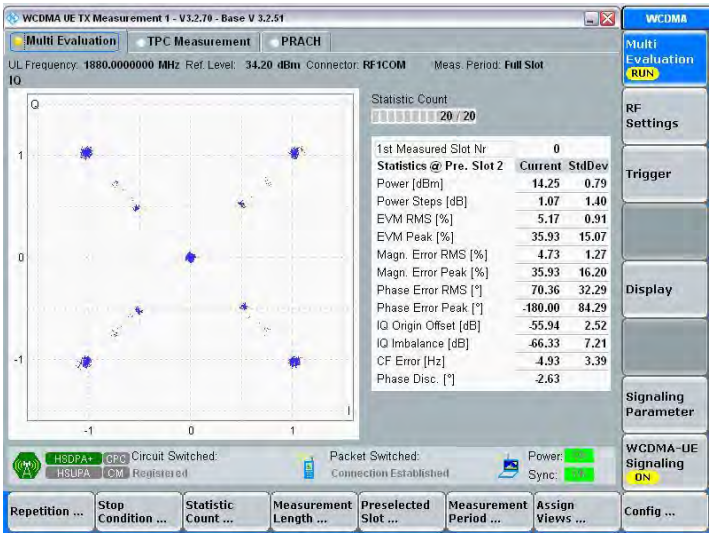
3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = UMTS/TM2

3.1.2.1. Test Channel = MCH



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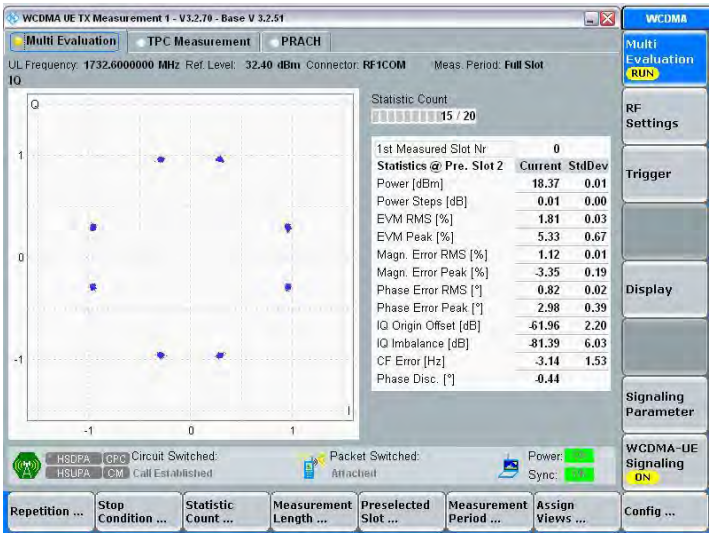
3.2. Test Band = WCDMA Band IV

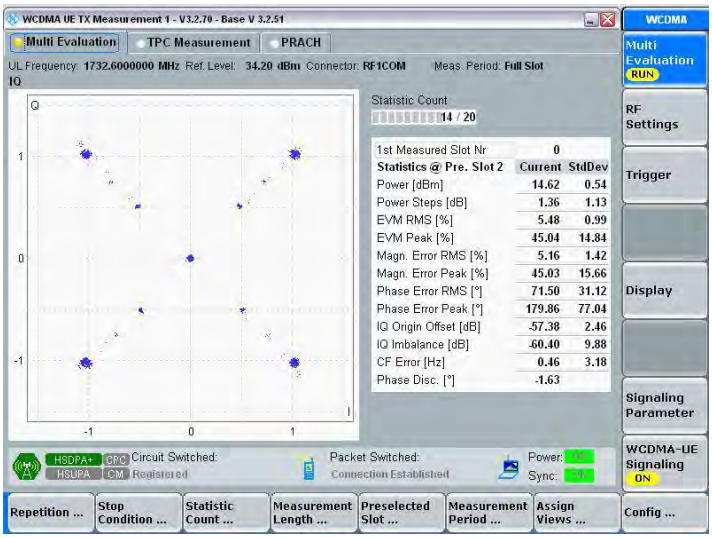
3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



3.2.2. Test Mode = UMTS/TM2

3.2.2.1. Test Channel = MCH



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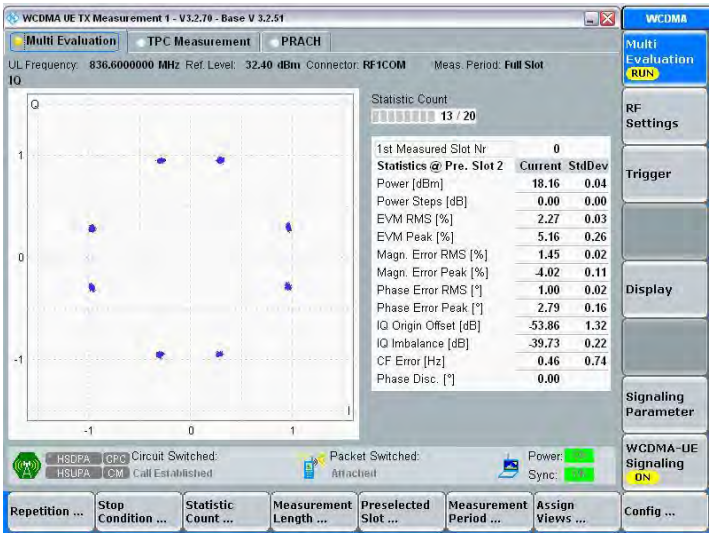
3.3. Test Band = WCDMA Band V

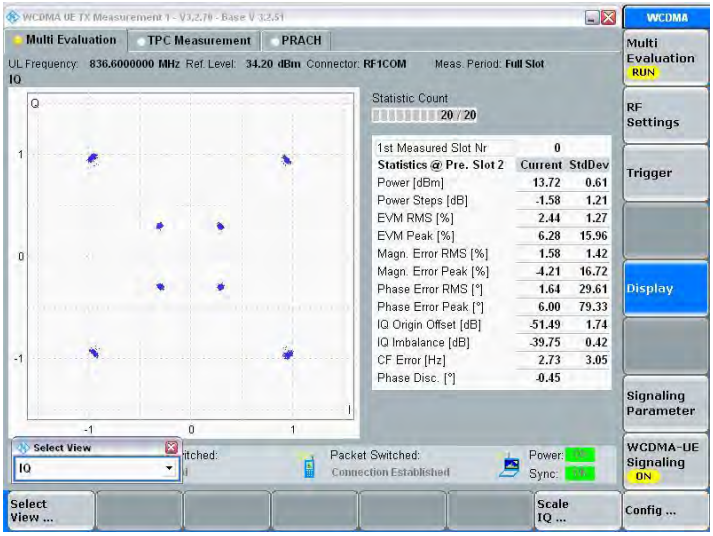
3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



3.3.2. Test Mode = UMTS/TM2

3.3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Modulation	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	QPSK	9262	4167.9	4739	---	PASS
Band II	QPSK	9400	4167.9	4725	---	PASS
Band II	QPSK	9538	4153.4	4739	---	PASS
Band II	16QAM	9262	4167.9	4739	---	PASS
Band II	16QAM	9400	4167.9	4754	---	PASS
Band II	16QAM	9538	4167.9	4754	---	PASS
Band IV	QPSK	1312	4153.4	4725	---	PASS
Band IV	QPSK	1413	4167.9	4725	---	PASS
Band IV	QPSK	1513	4153.4	4725	---	PASS
Band IV	16QAM	1312	4167.9	4739	---	PASS
Band IV	16QAM	1413	4167.9	4739	---	PASS
Band IV	16QAM	1513	4167.9	4739	---	PASS
Band V	QPSK	4132	4153.4	4754	---	PASS
Band V	QPSK	4182	4153.4	4725	---	PASS
Band V	QPSK	4233	4153.4	4754	---	PASS
Band V	16QAM	4132	4196.8	4797	---	PASS
Band V	16QAM	4182	4167.9	4725	---	PASS
Band V	16QAM	4233	4167.9	4754	---	PASS

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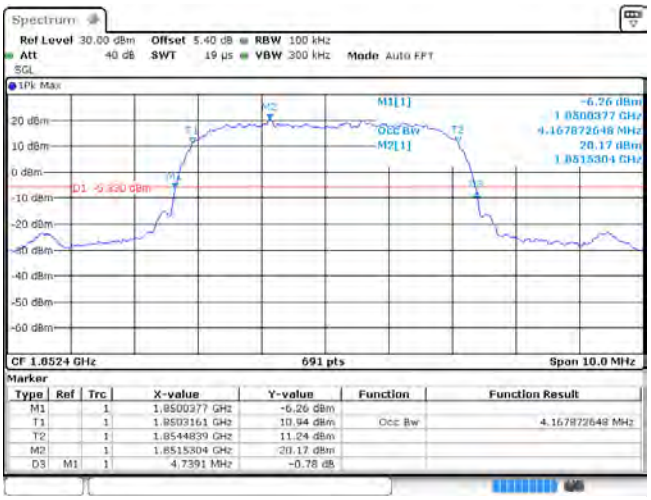
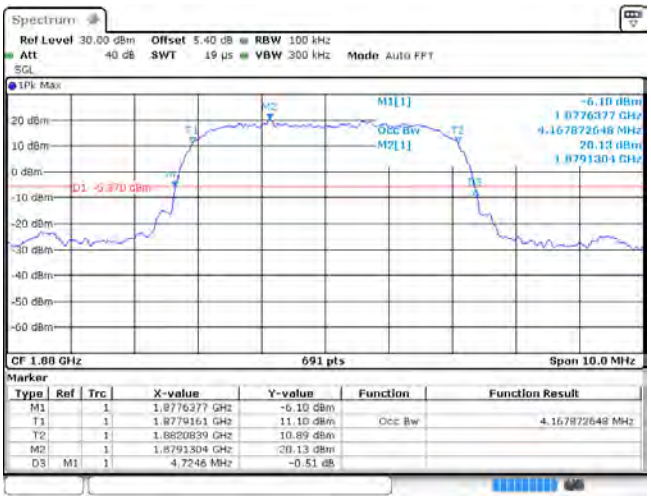
4.2. Test Plots for QPSK



Band II_9262



Band II_9400

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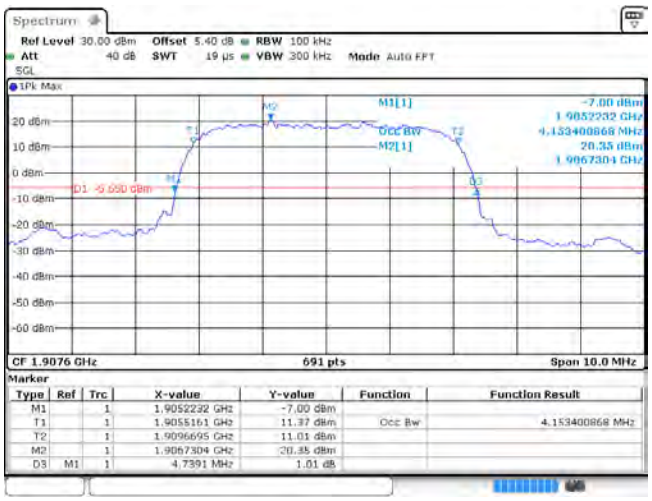
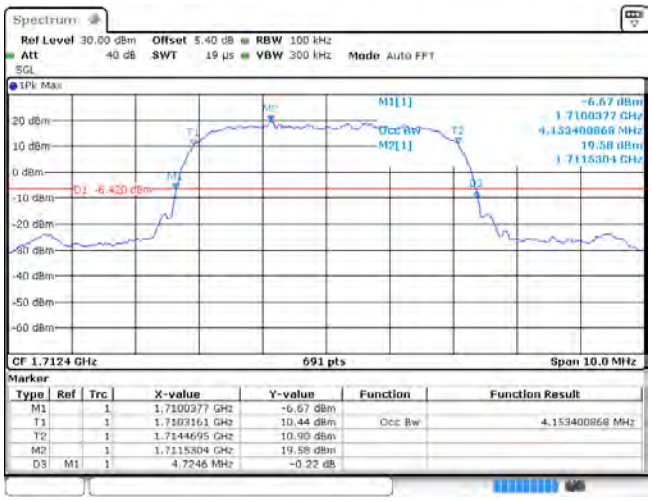


Band II_9538



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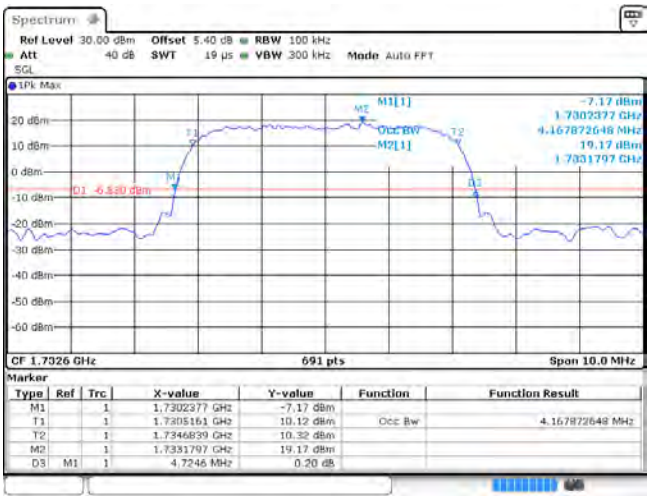
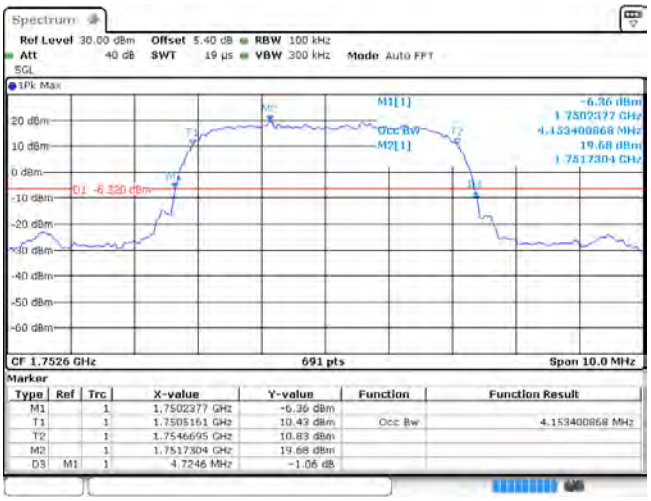


Band IV_1413



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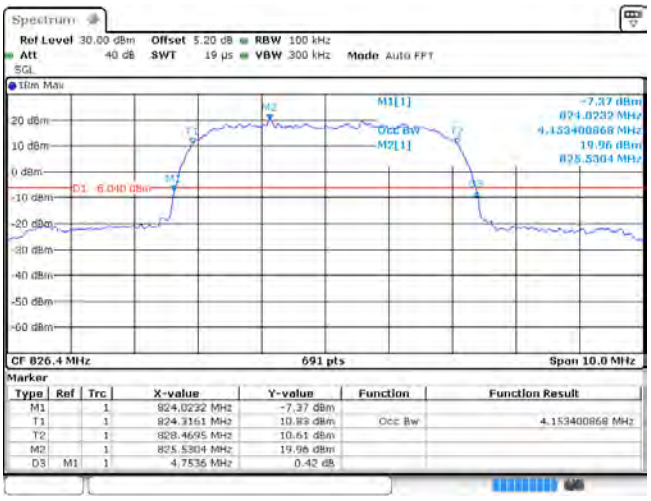
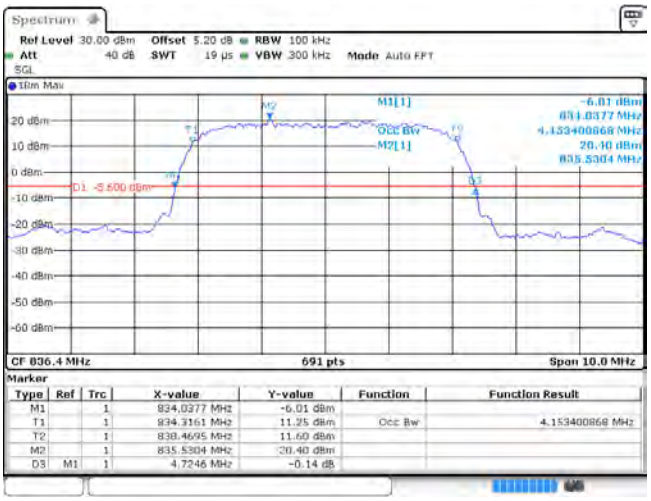


Band V_4132



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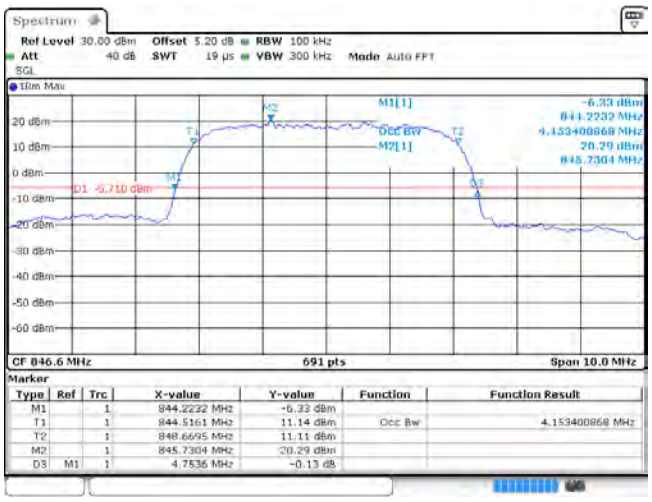
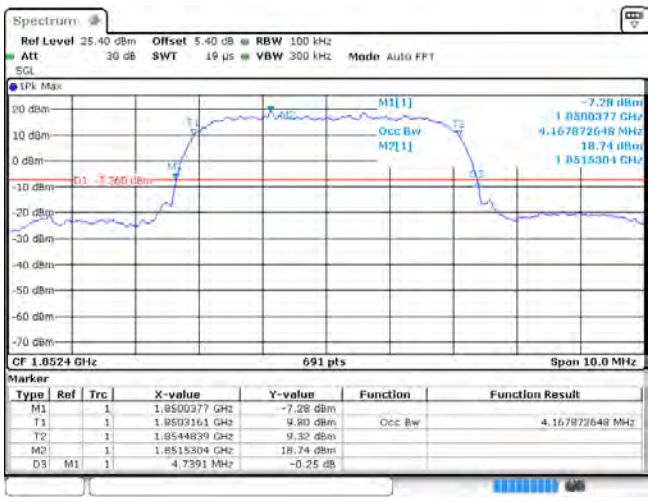


Band V_4233

4.3. Test Plots for 16QAM



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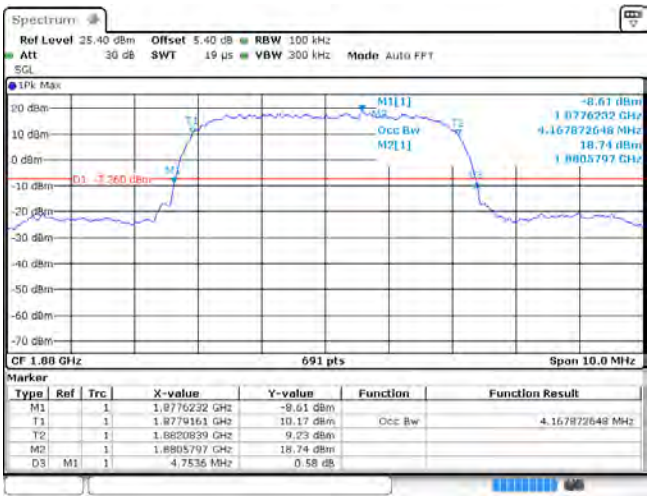

Date: 2.DEC.2019 23:24:16

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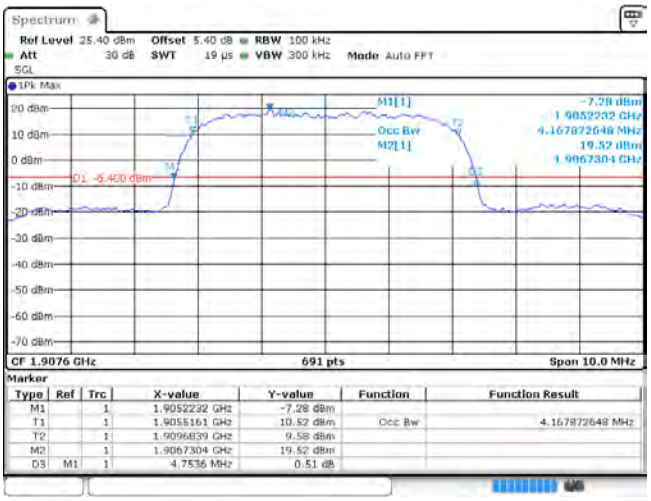

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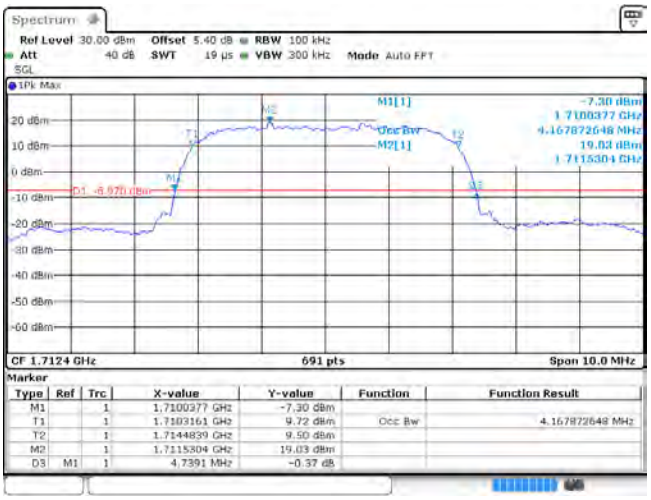
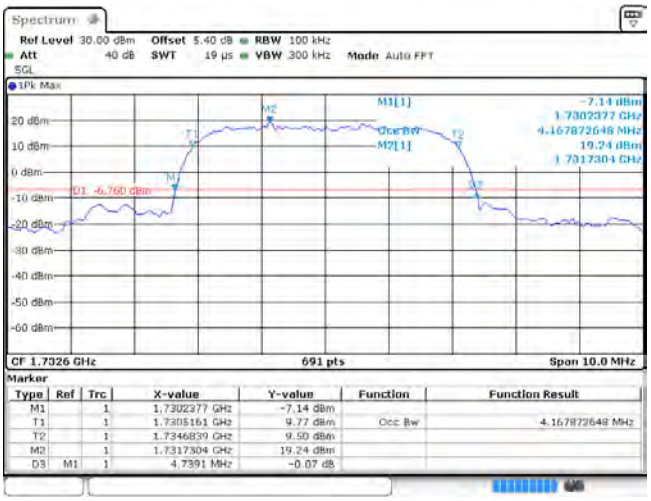


Band IV_1312



Band IV_1413

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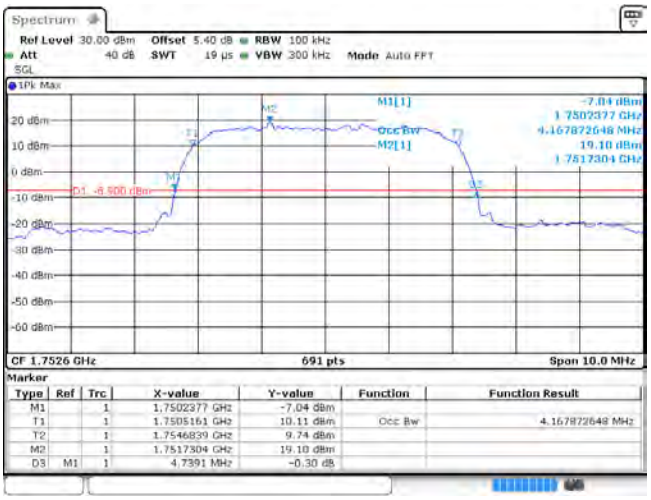

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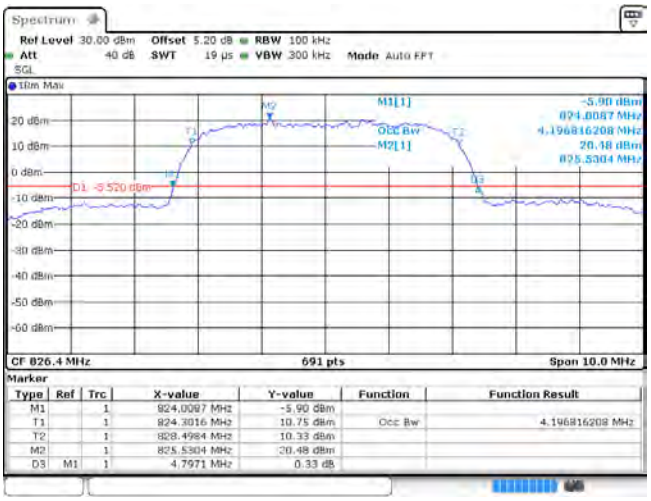

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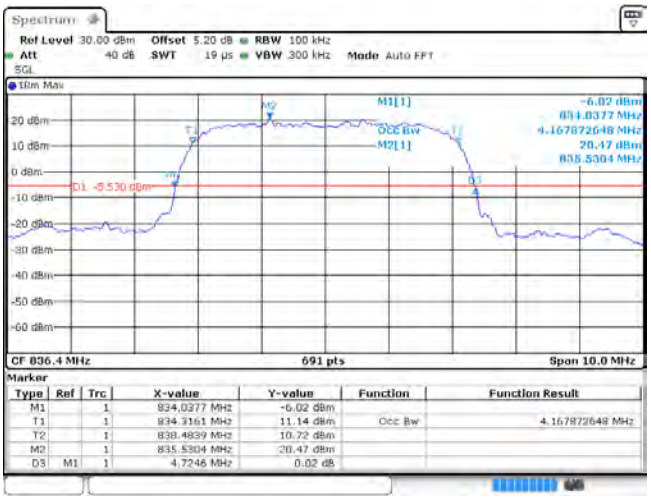

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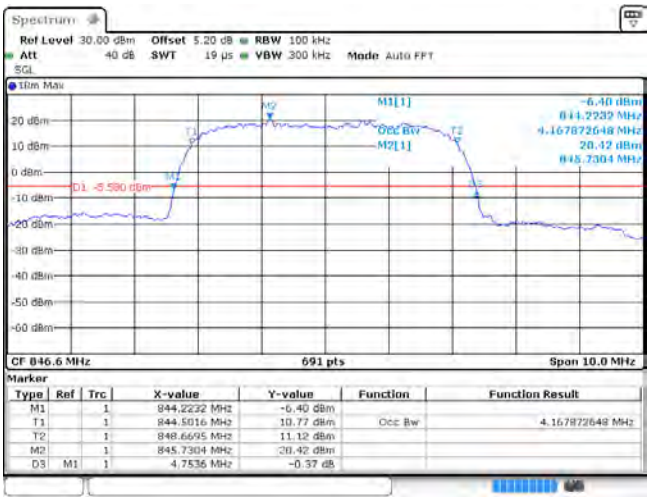

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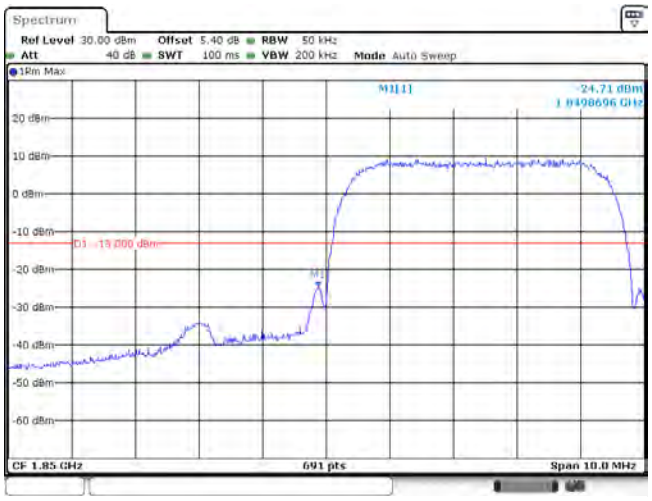
5. Band Edge Compliance

5.1. Test Plots for QPSK



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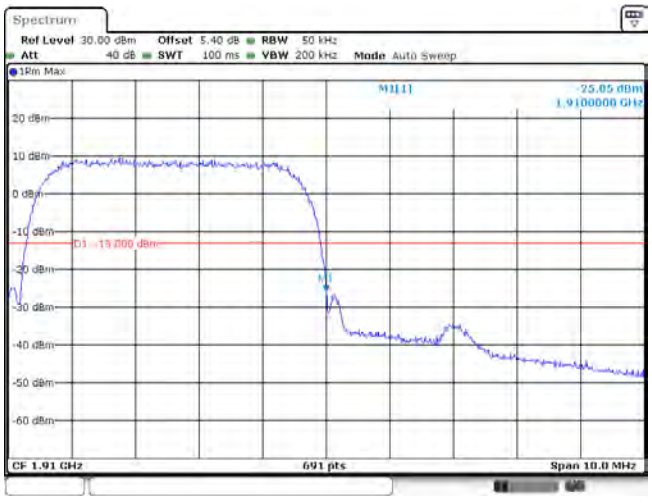

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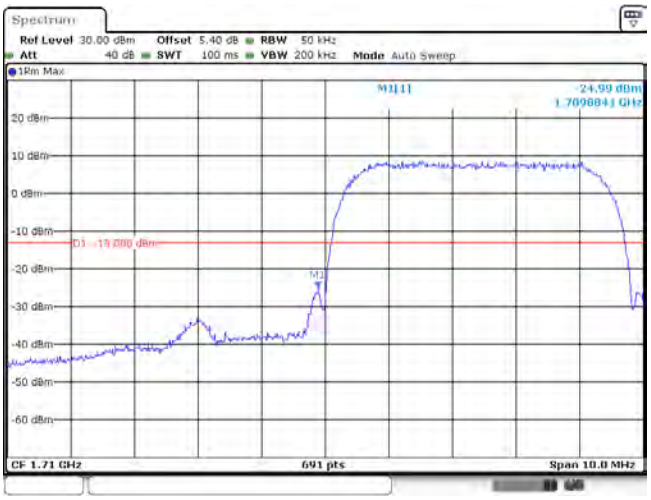

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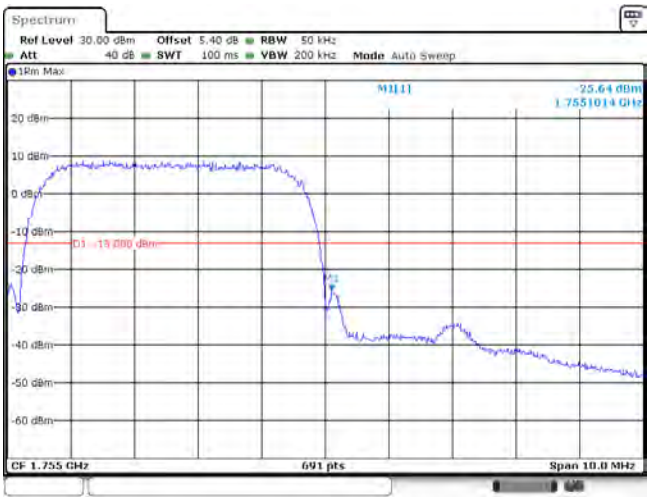

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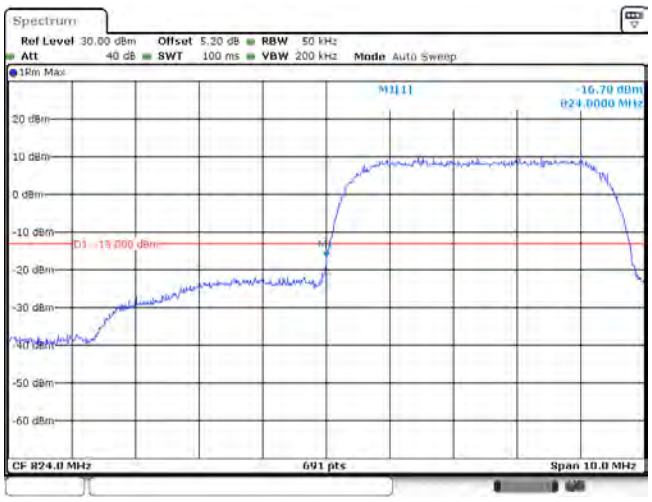

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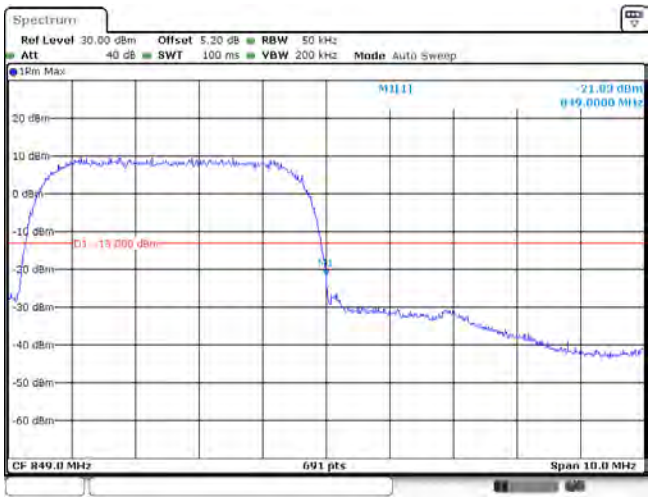

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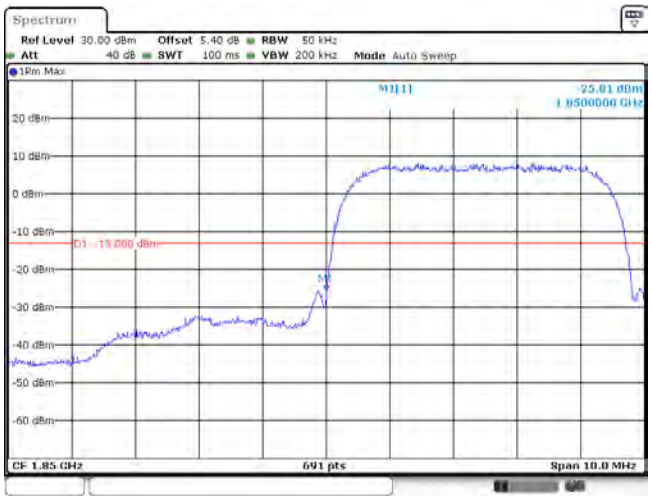
5.2. Test Plots for 16QAM



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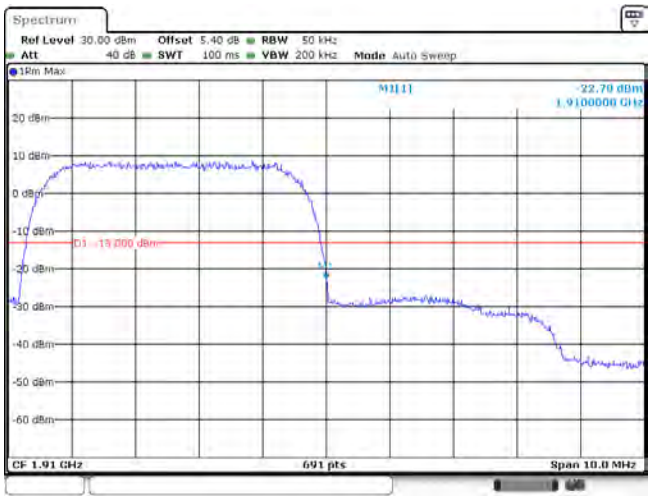

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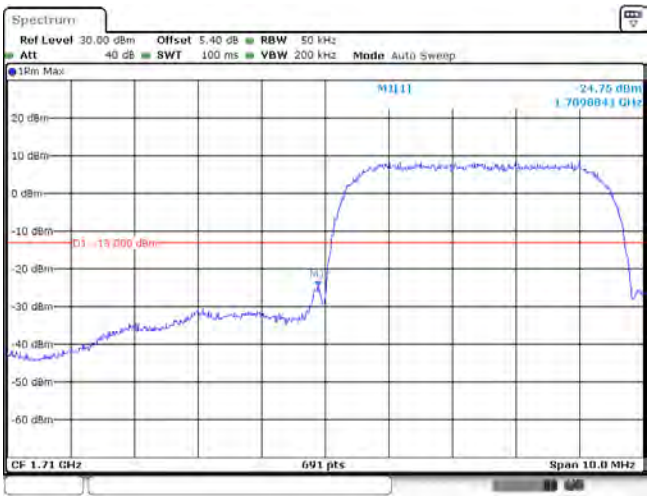

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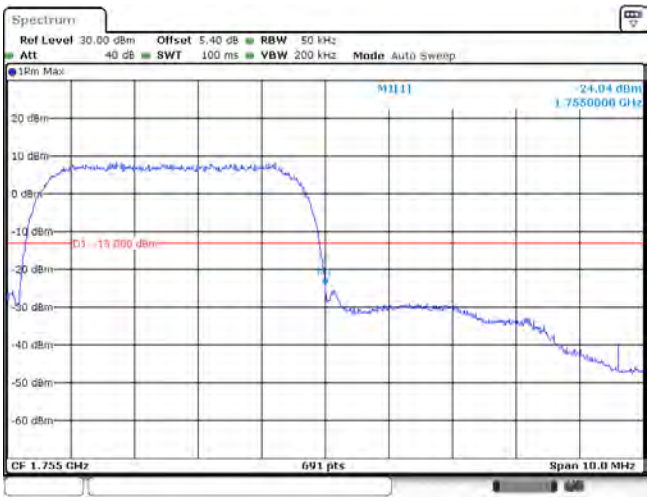

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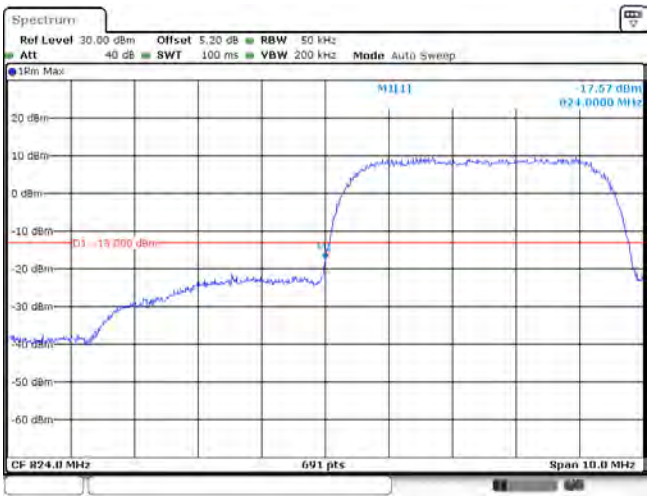
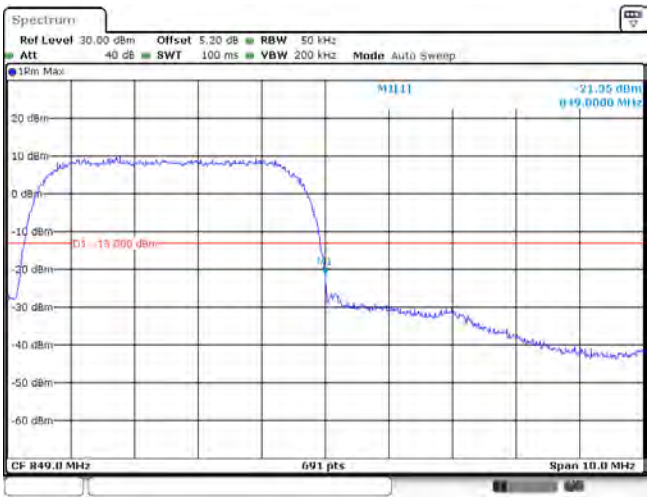


Band V_4132



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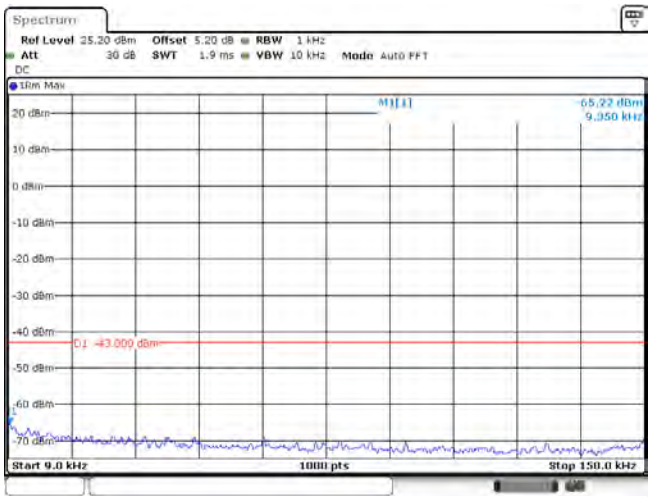
6. Spurious Emission at Antenna Terminal

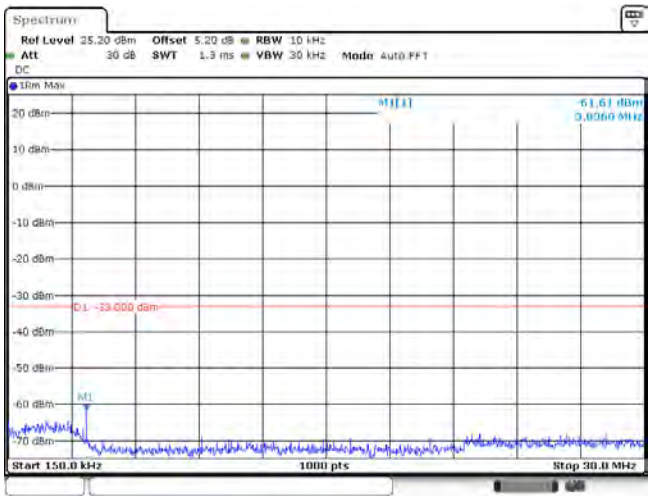
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (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 for QPSK



Band II_9262



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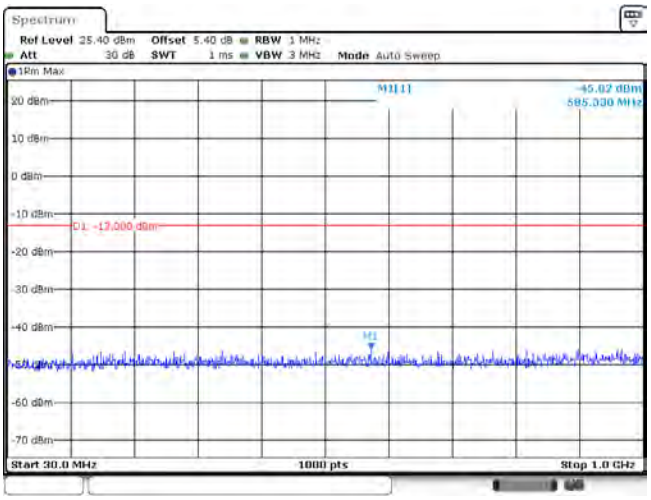

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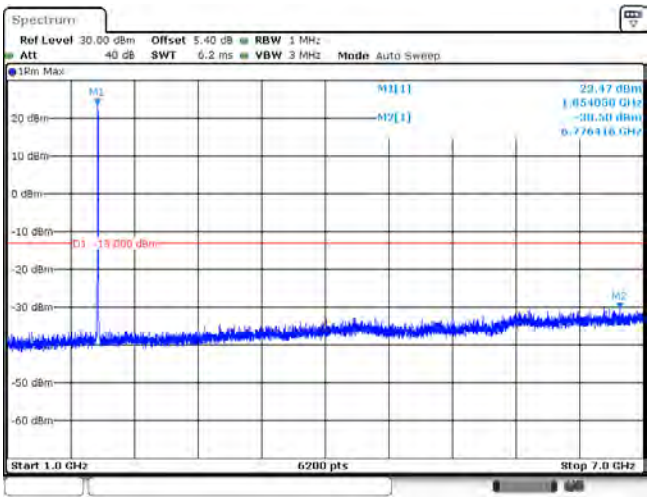

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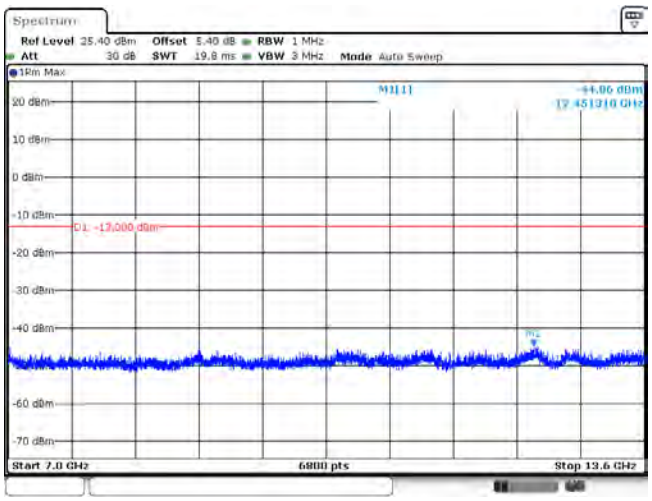

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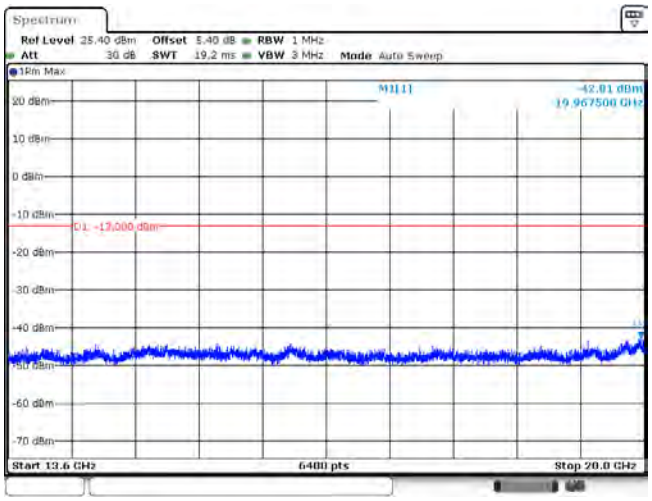

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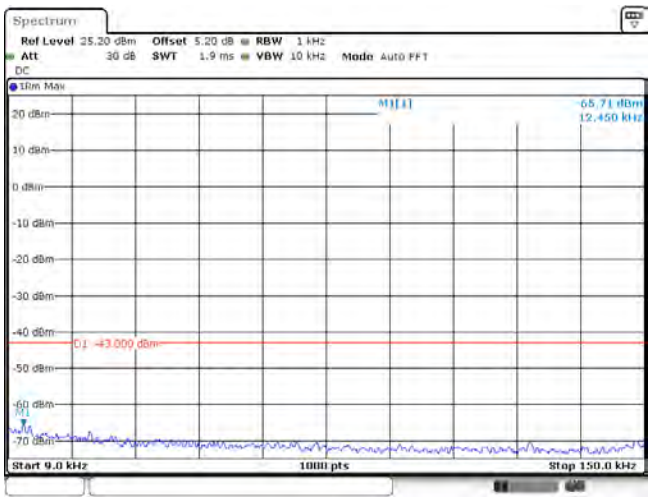
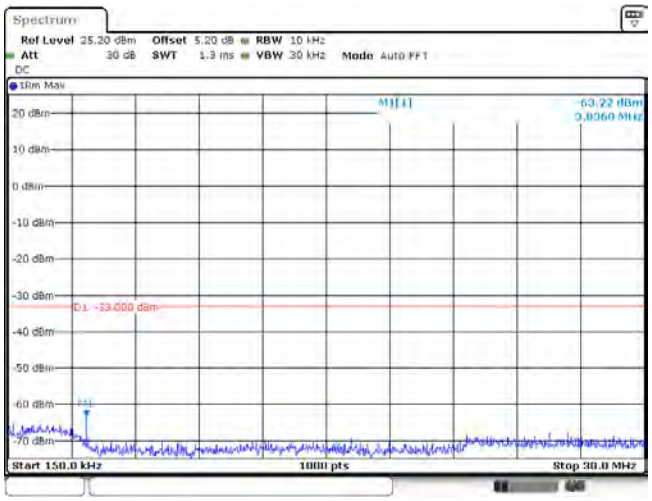


Band II_9400



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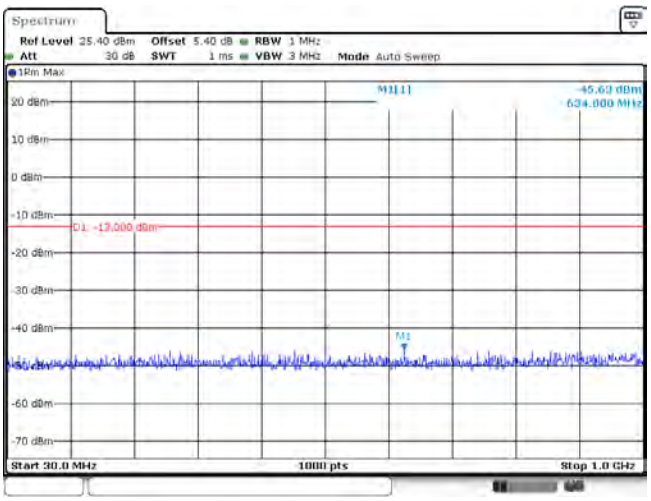

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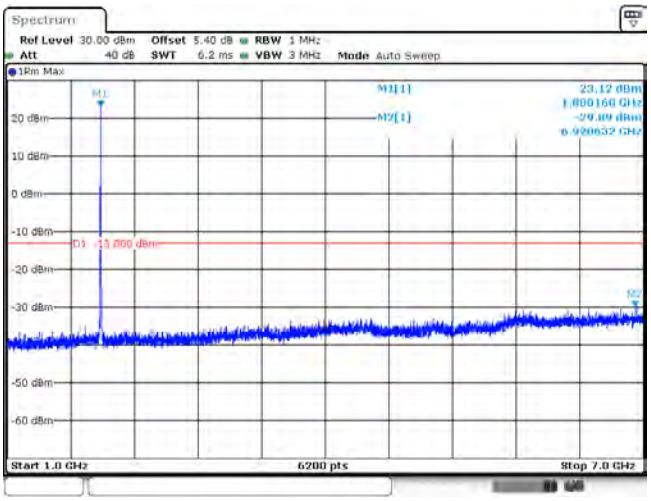

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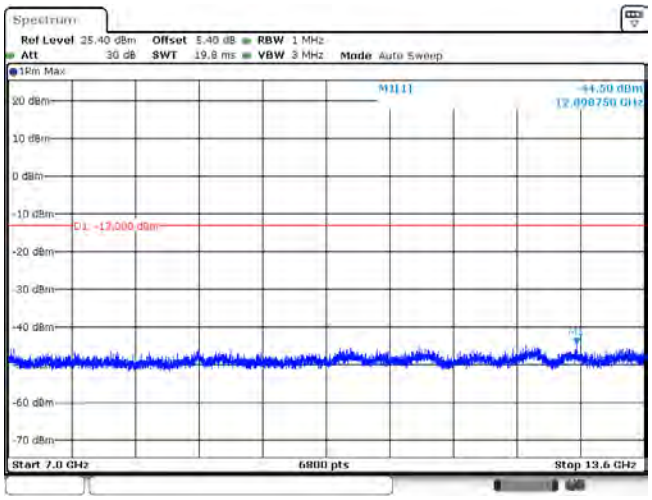

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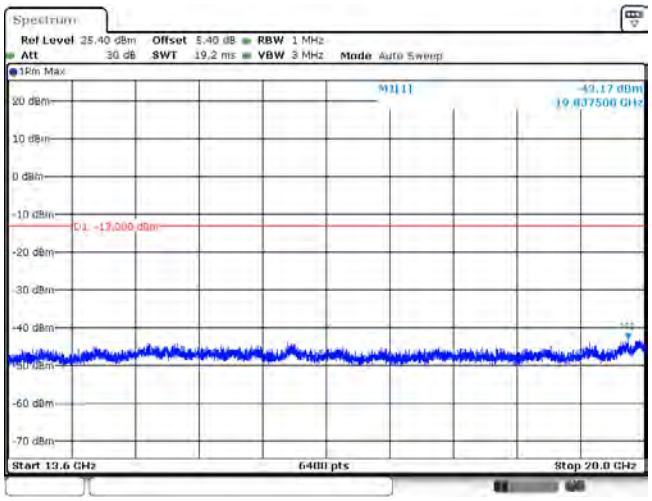

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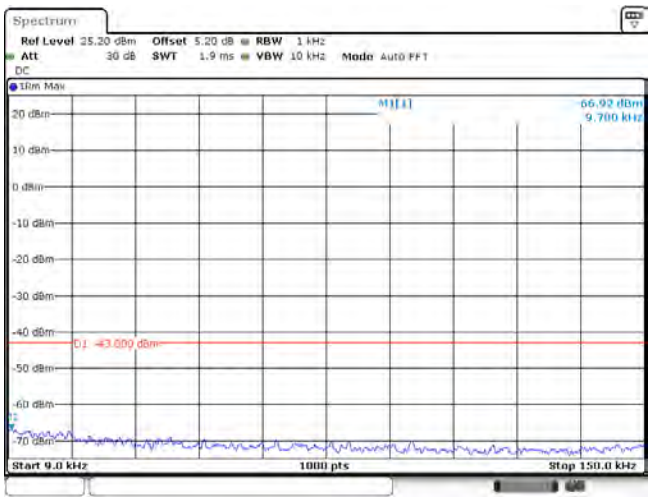

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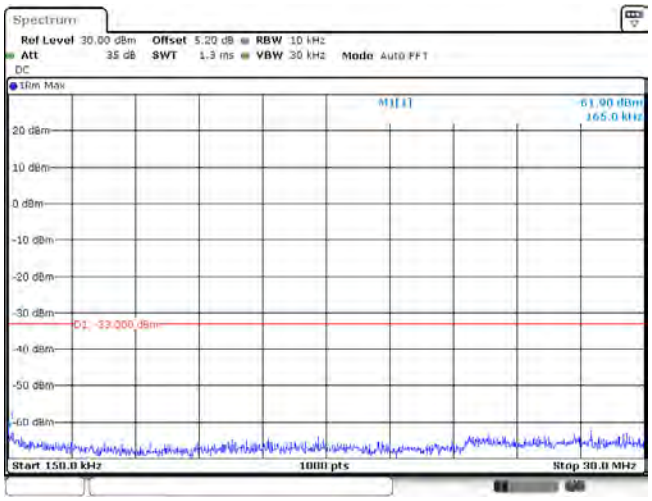

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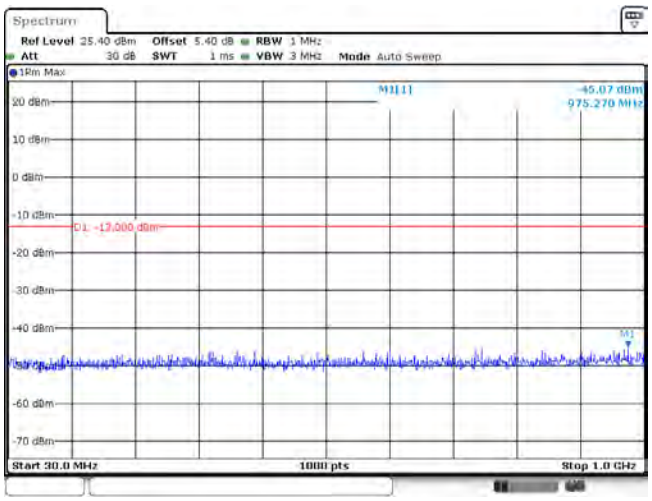

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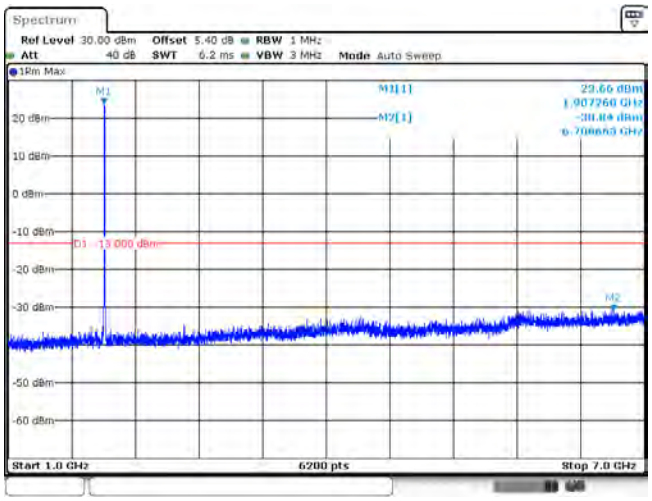

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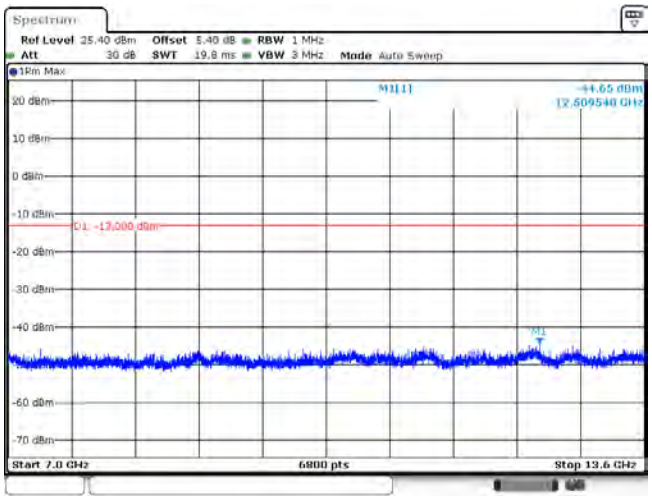

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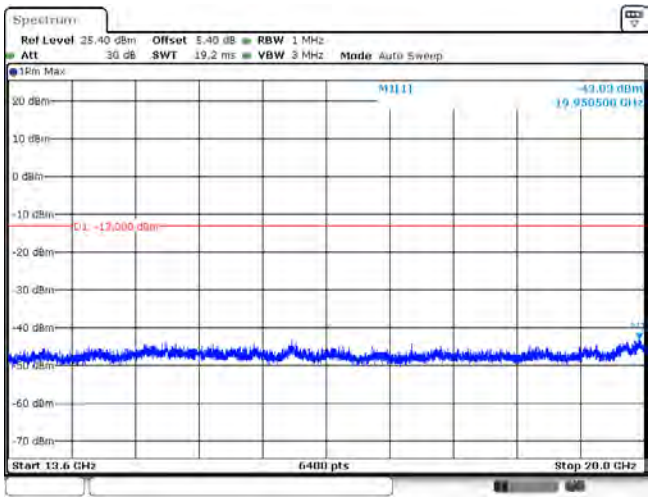

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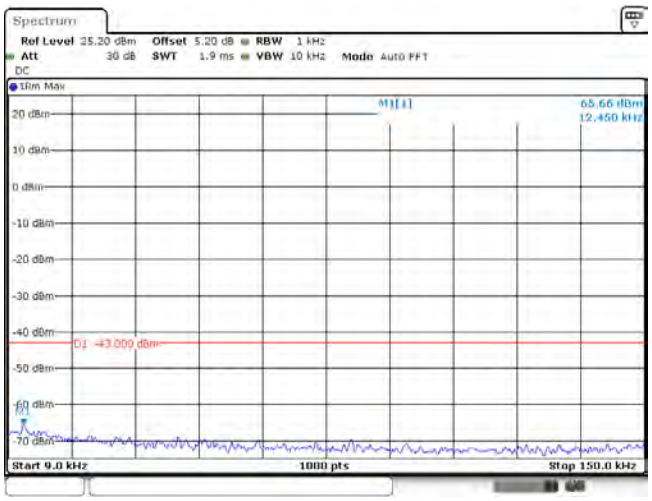

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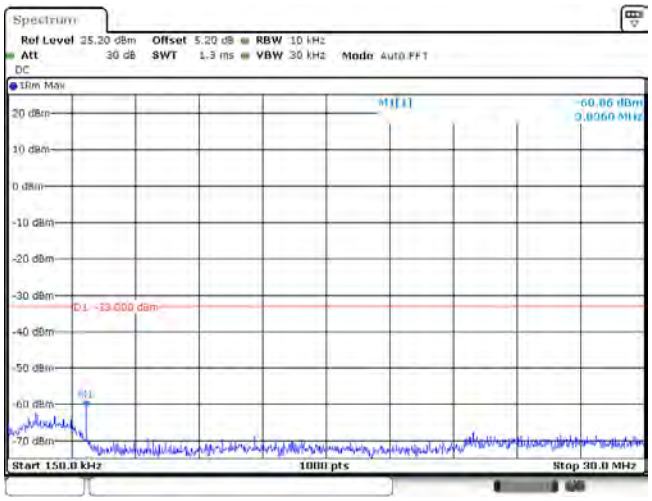

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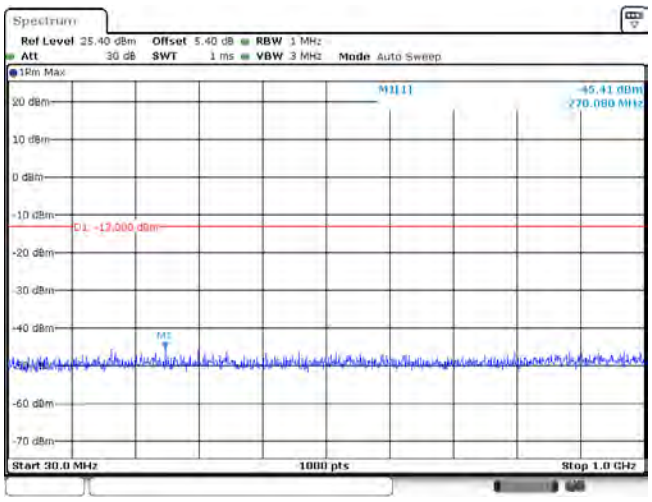

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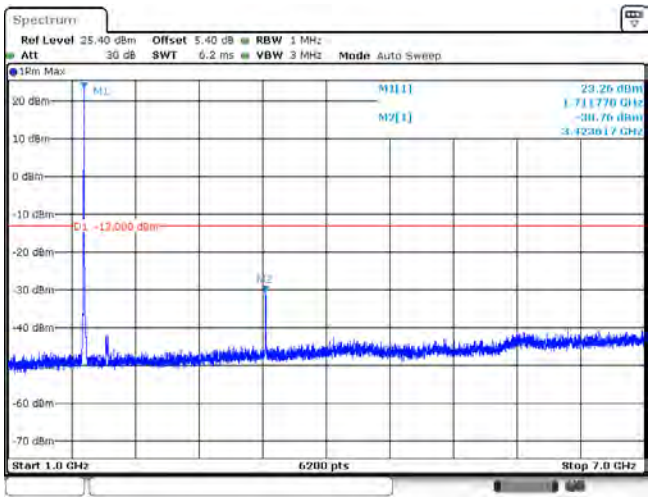

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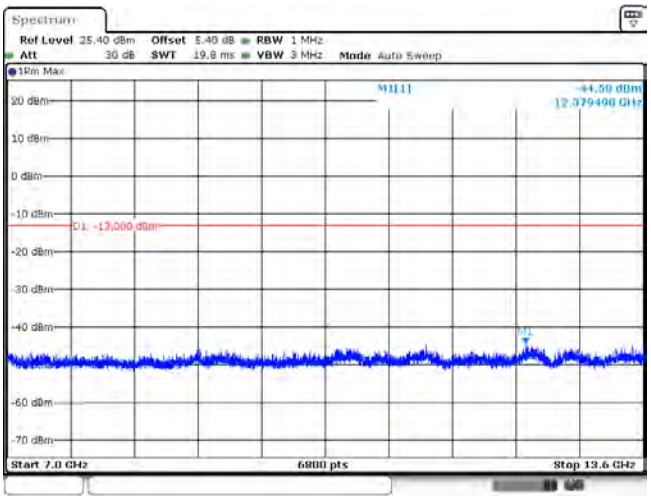

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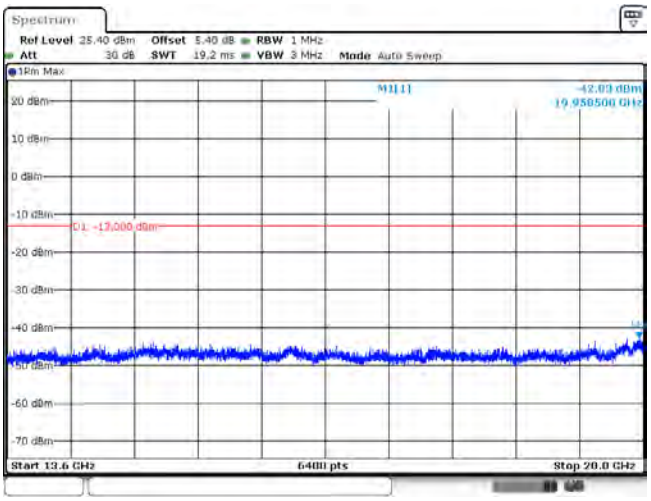

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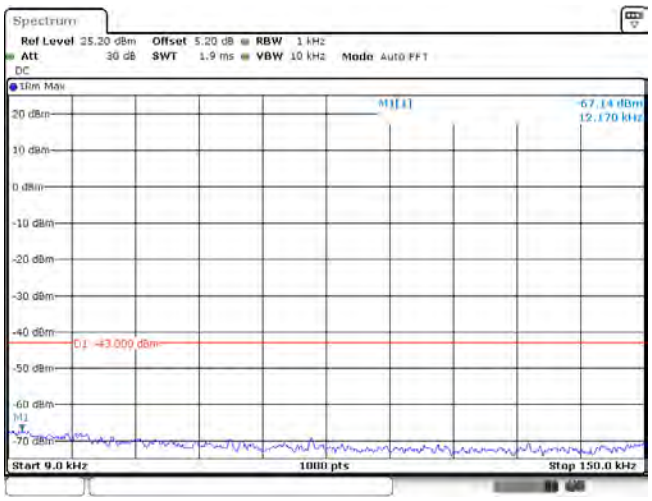

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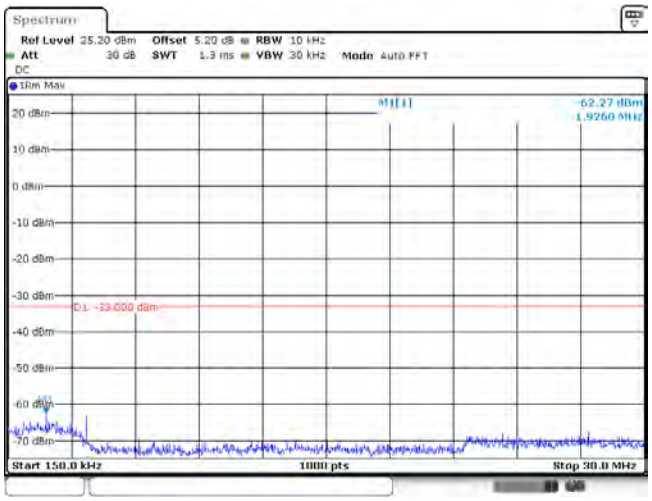

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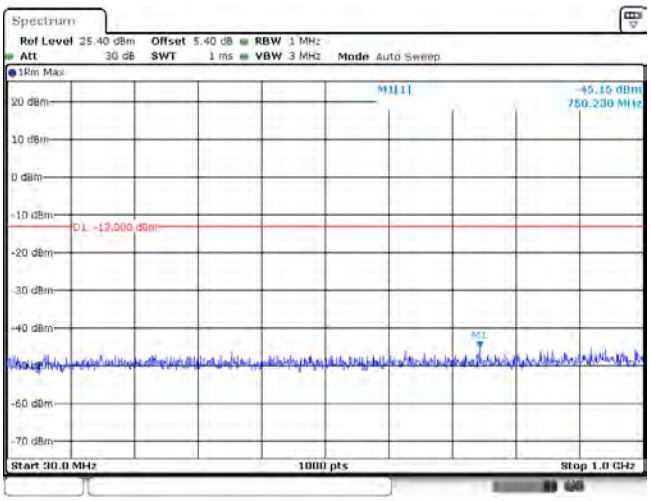

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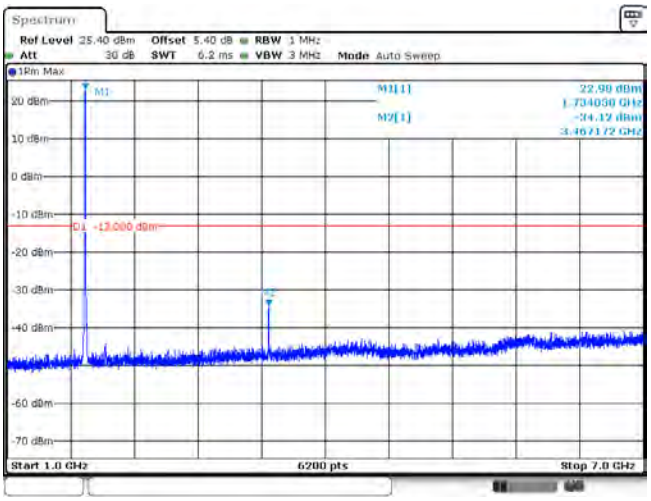

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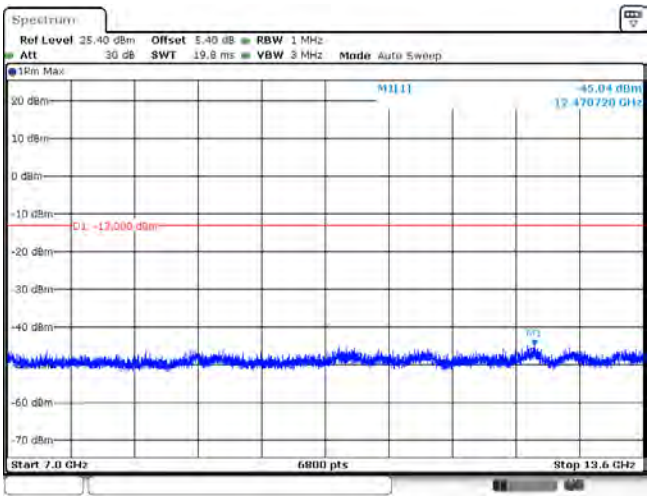

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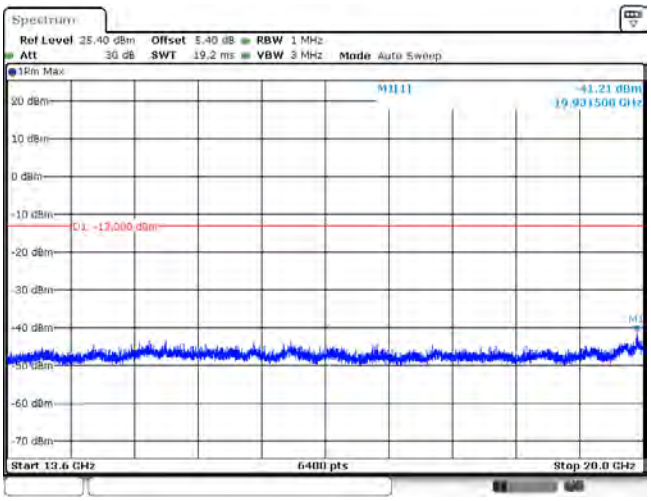

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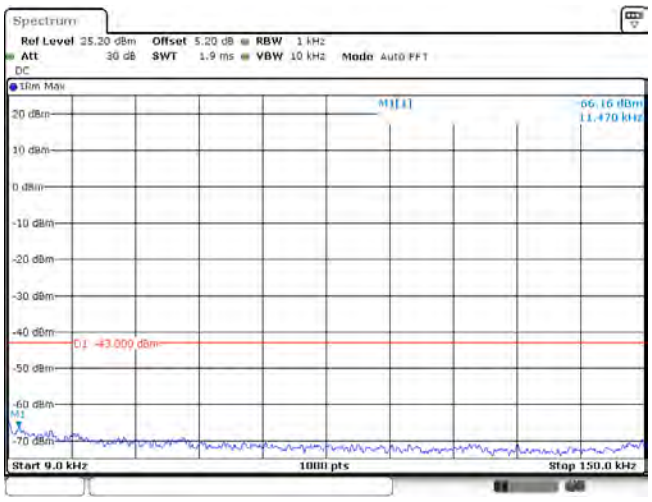

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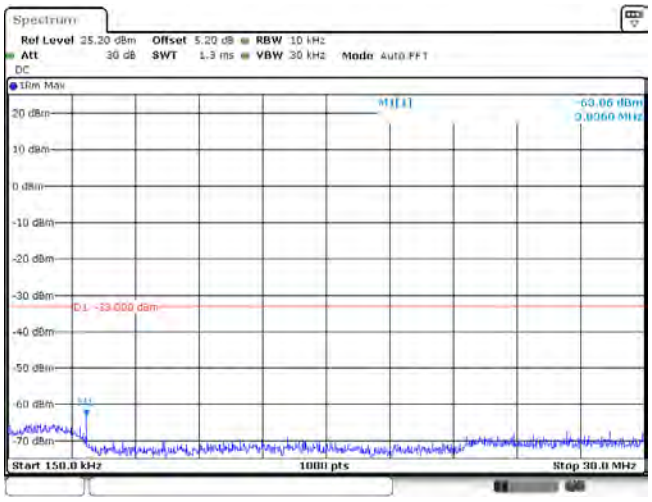

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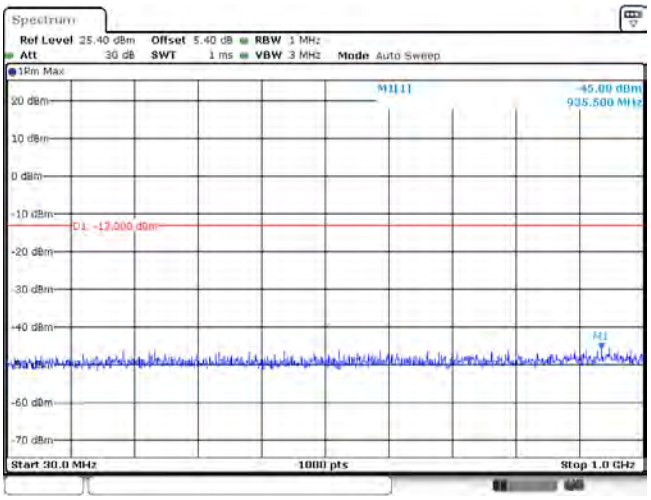

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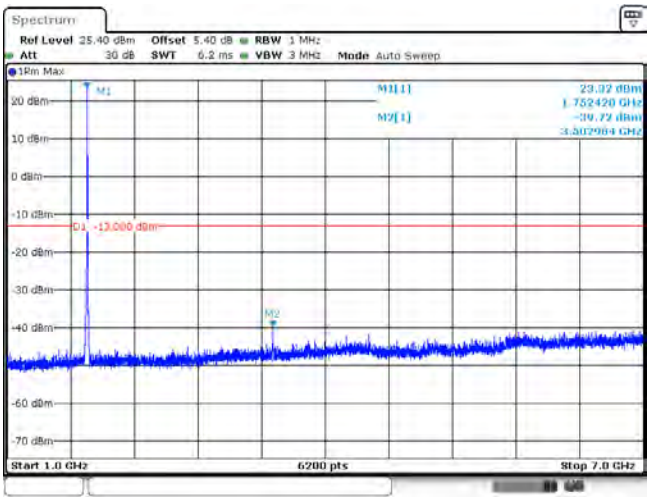

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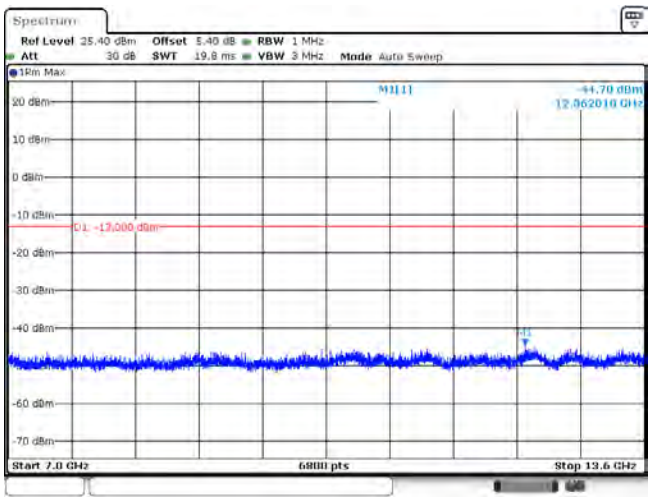

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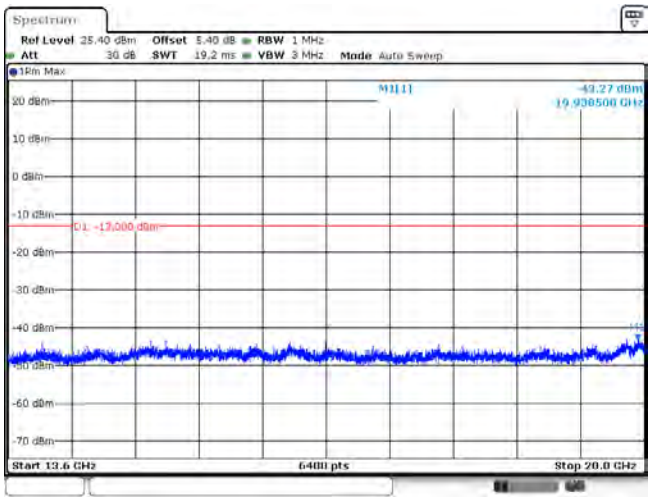

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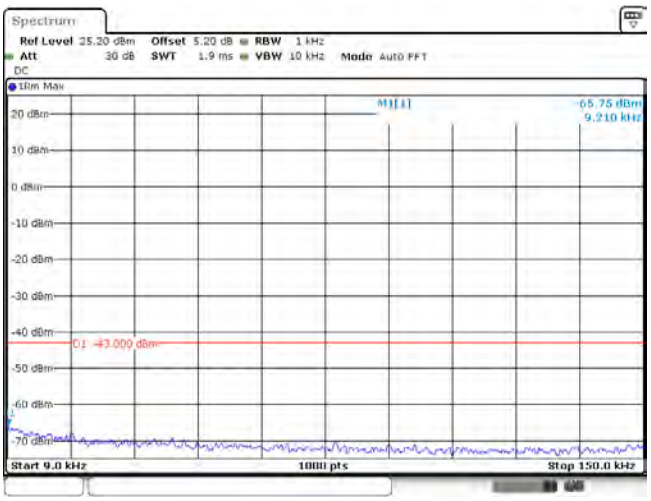

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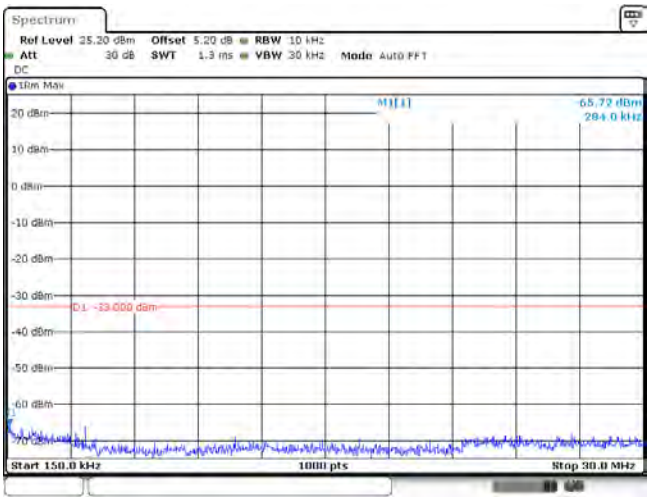

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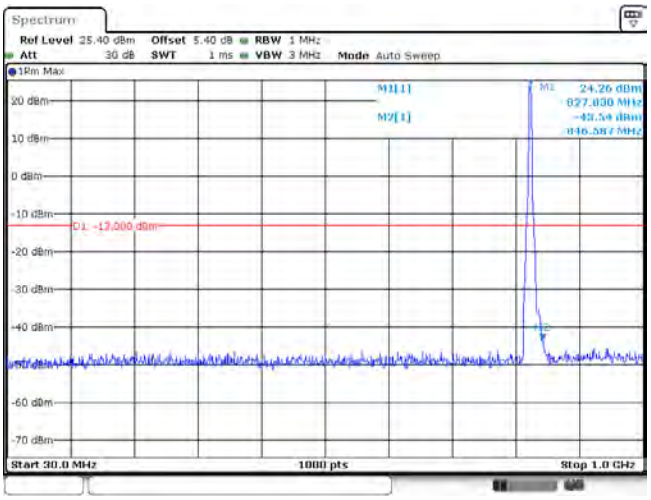

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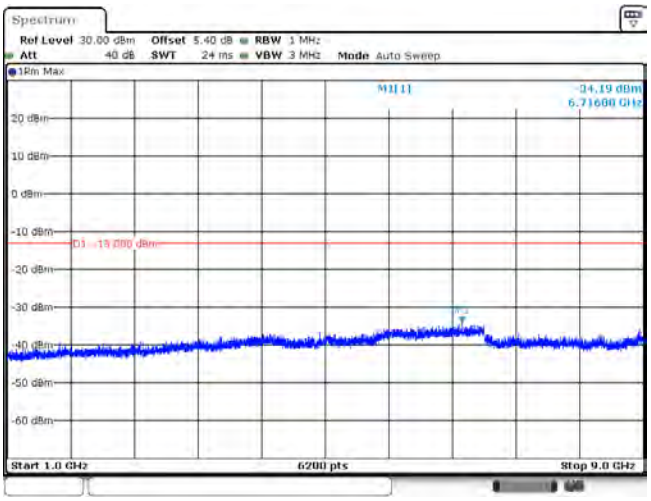

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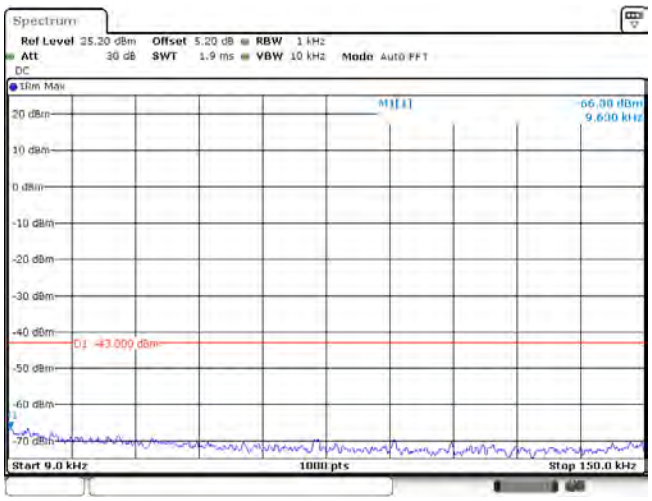

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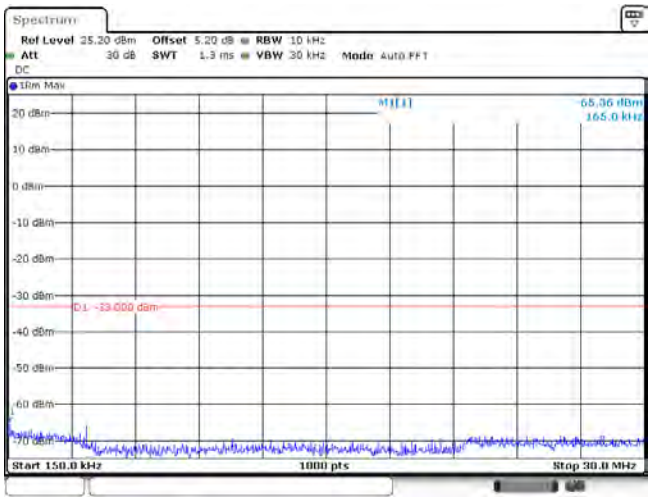

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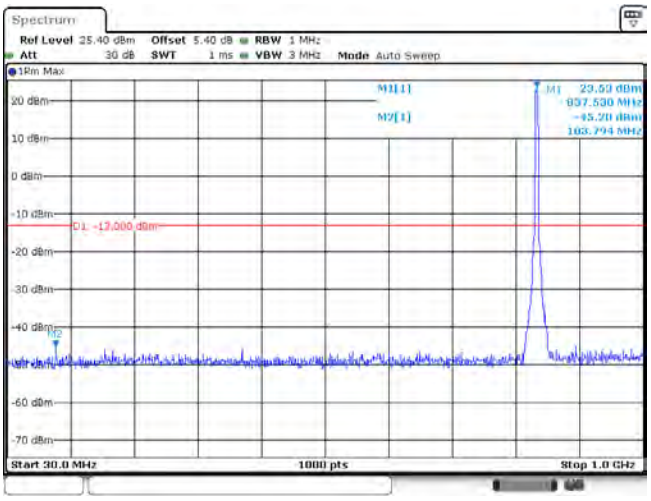

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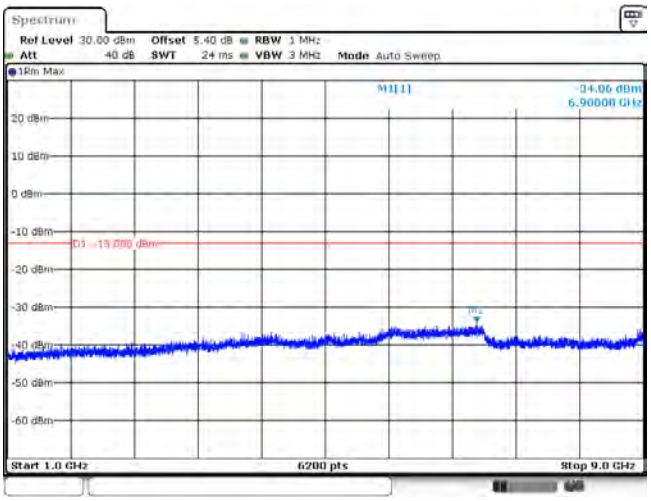

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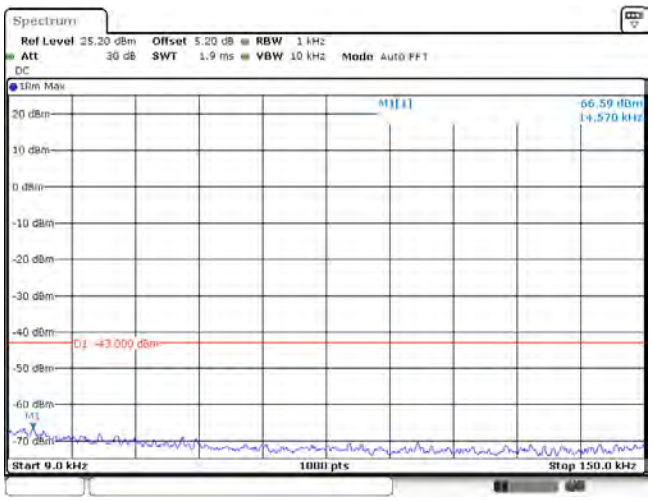

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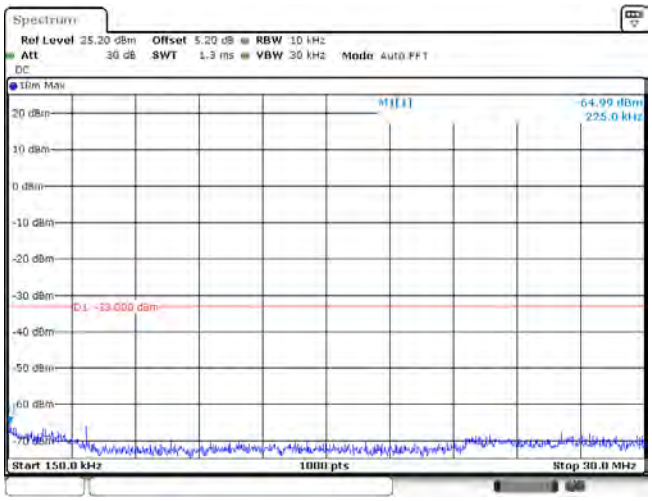

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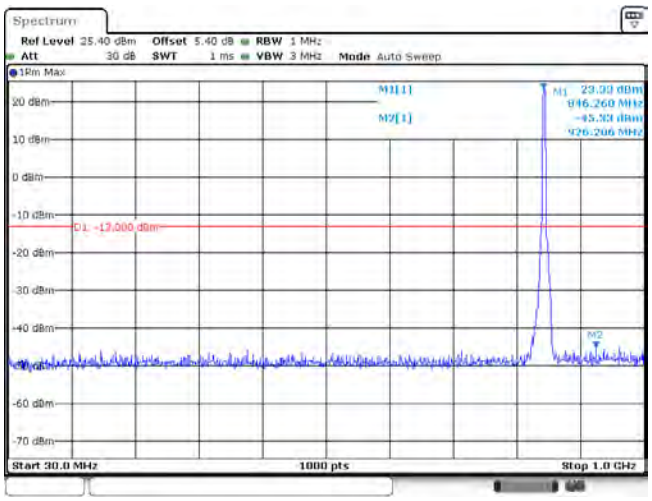

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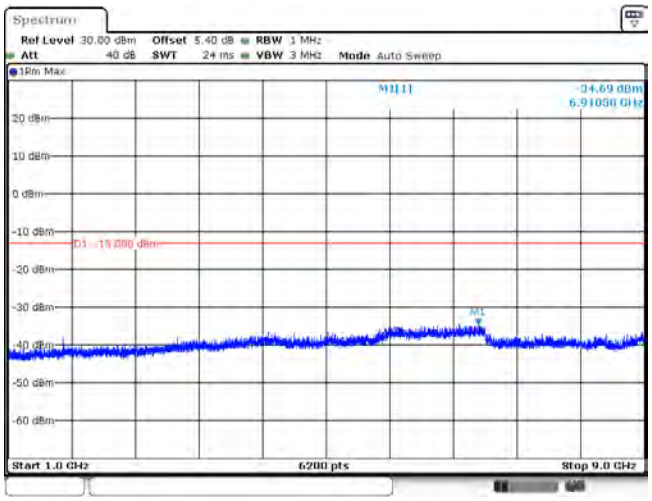

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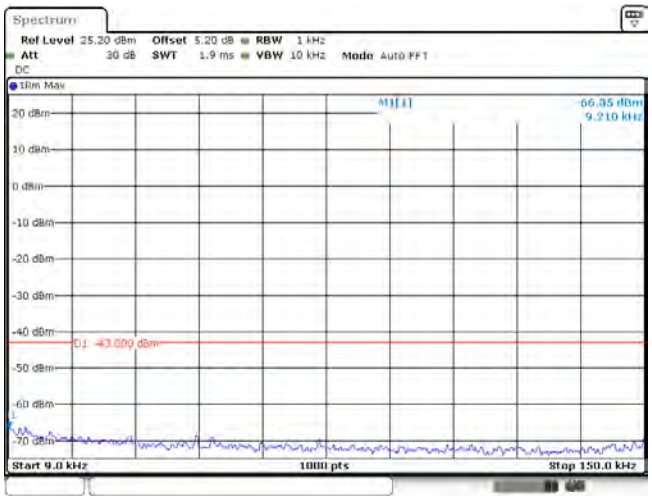

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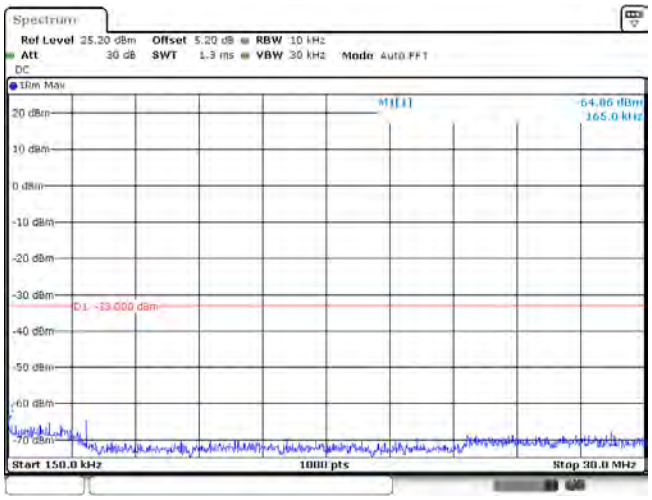

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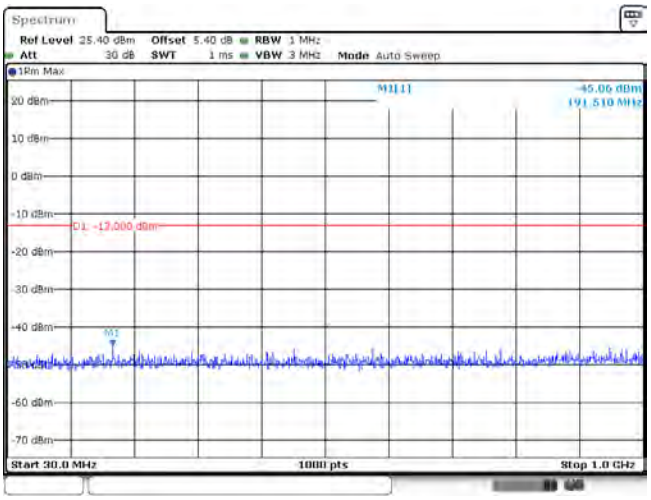

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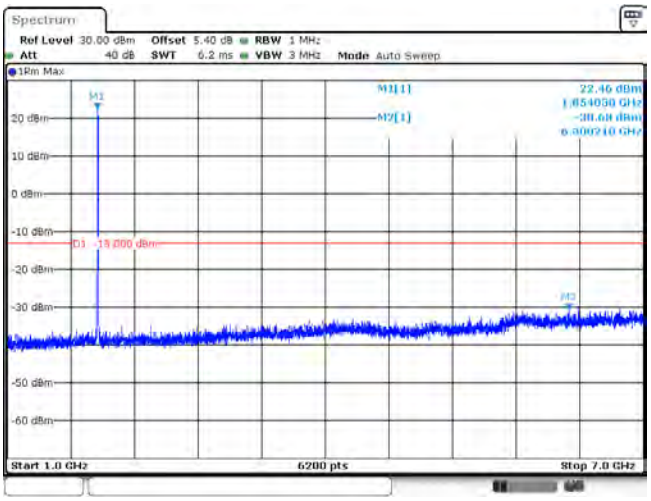

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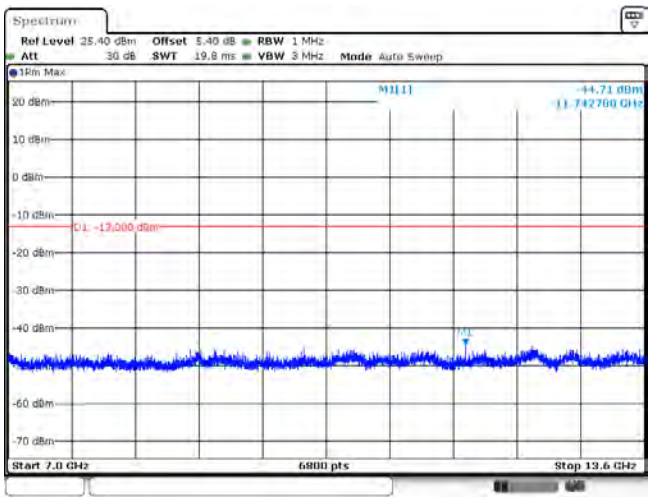

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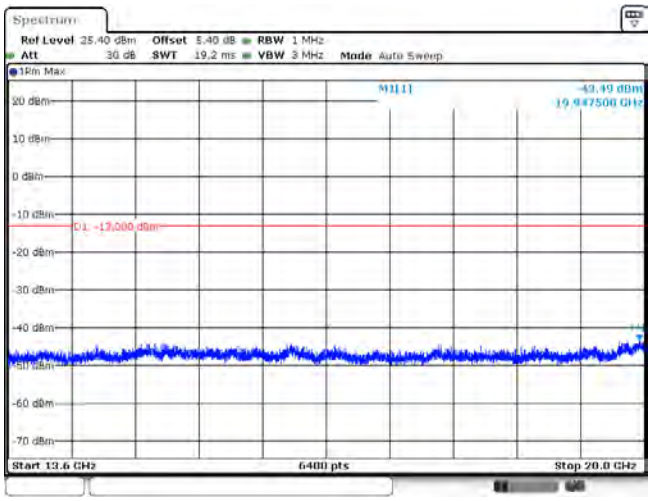

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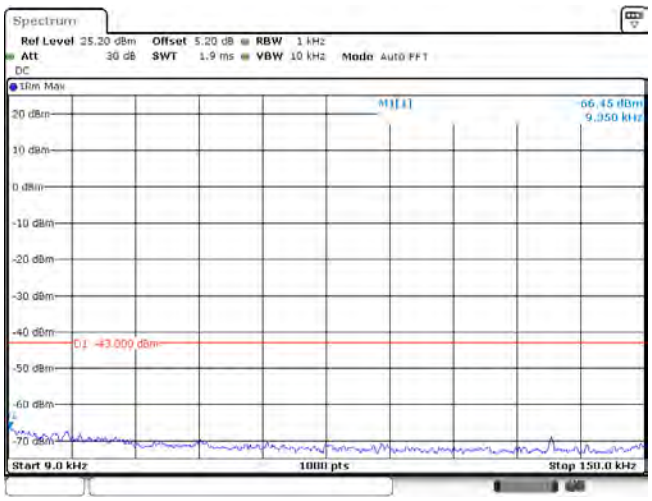

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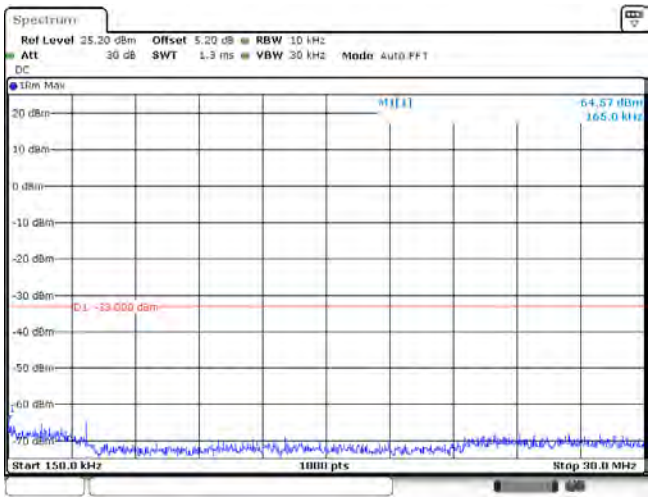

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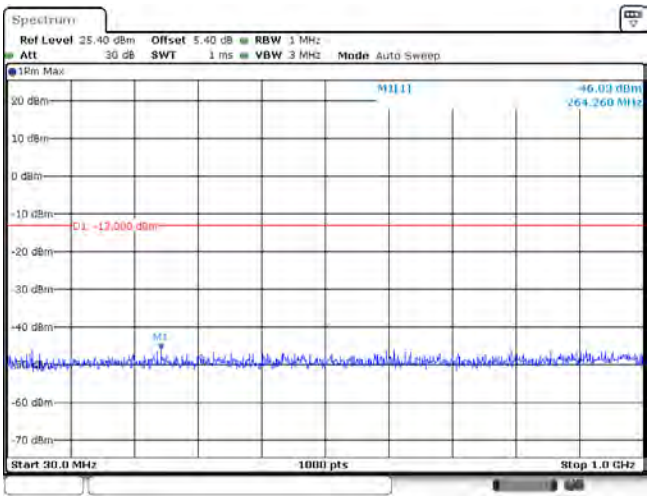

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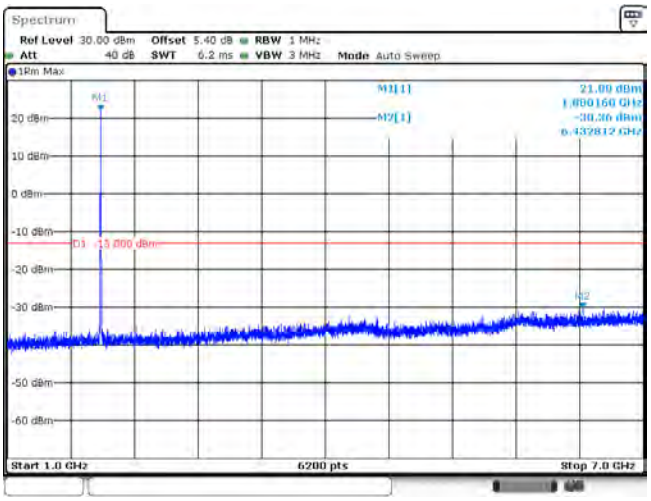

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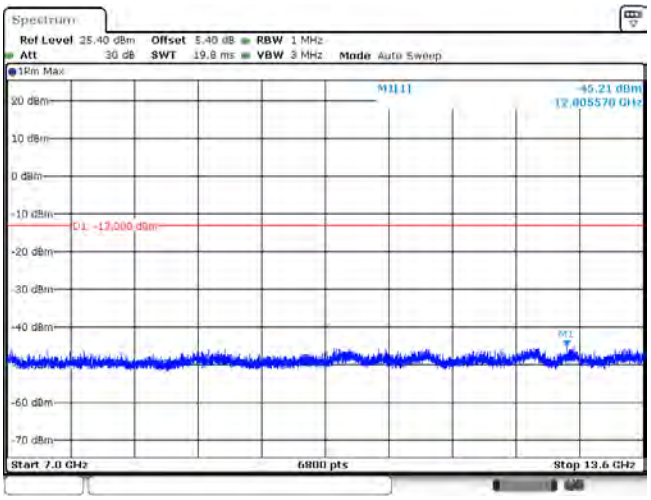

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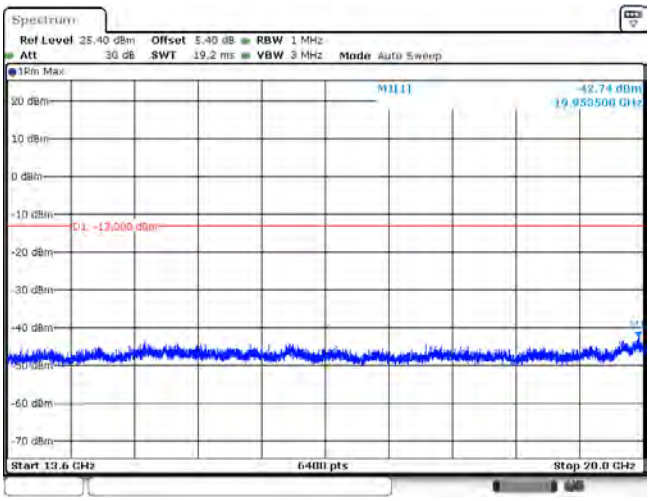

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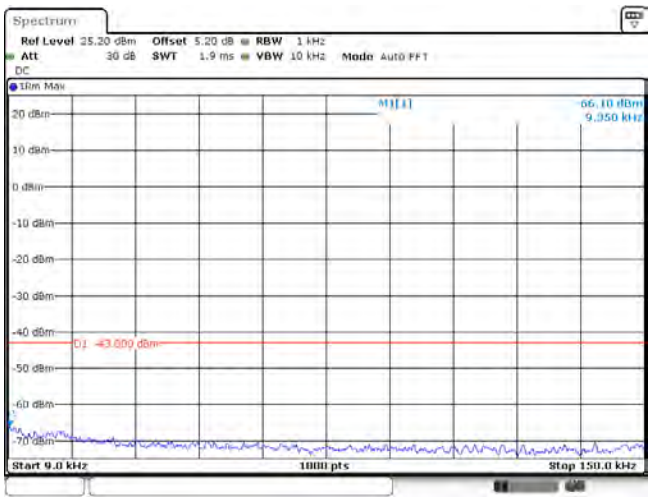

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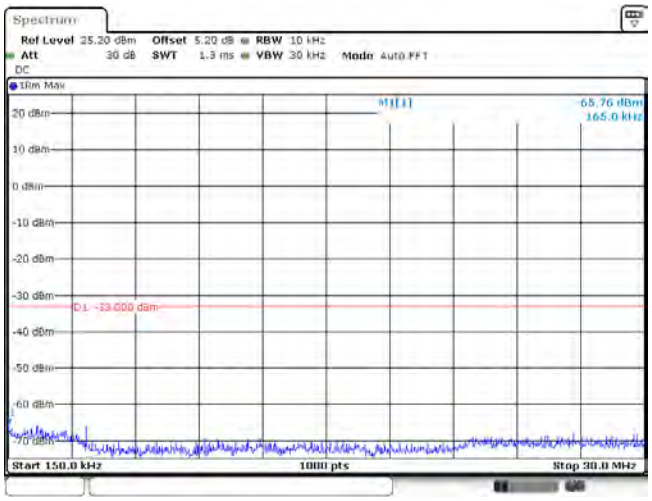

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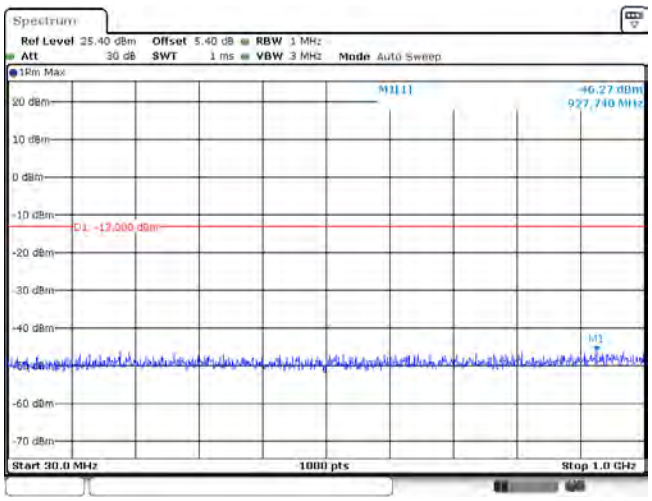

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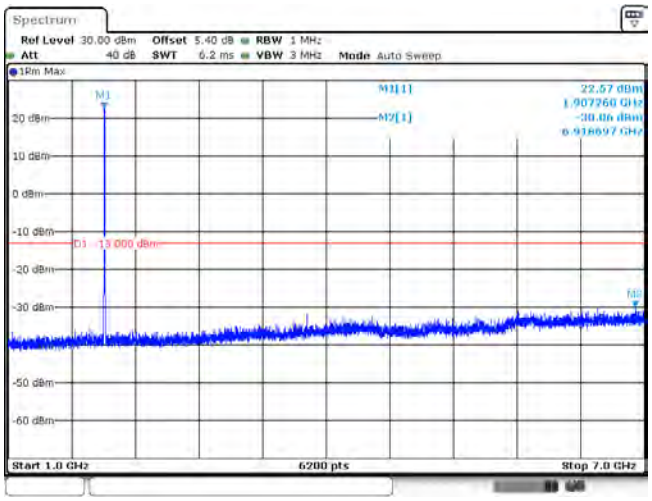

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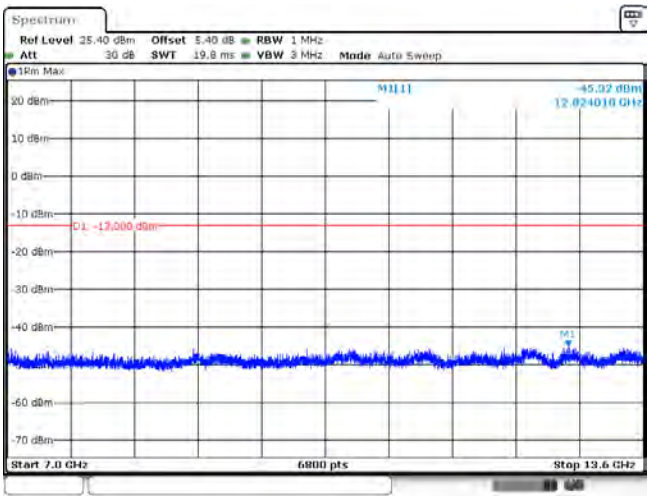

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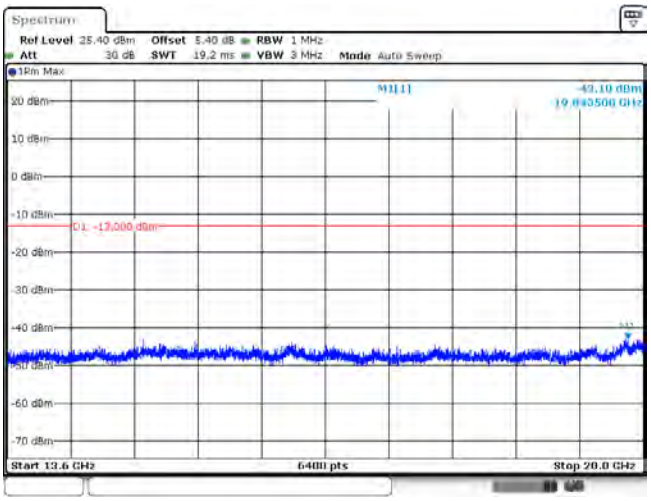

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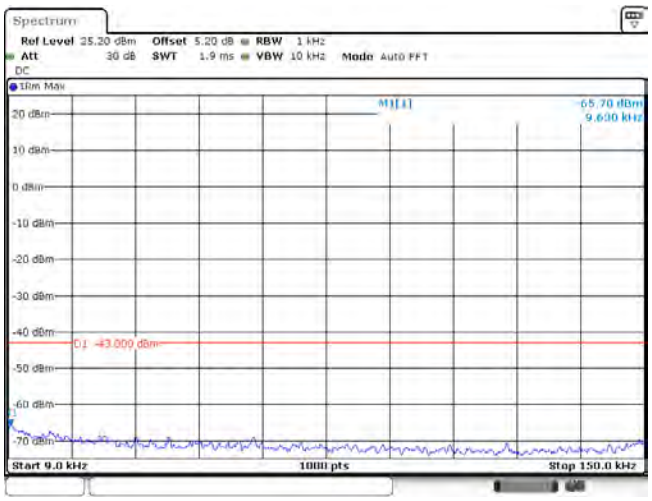

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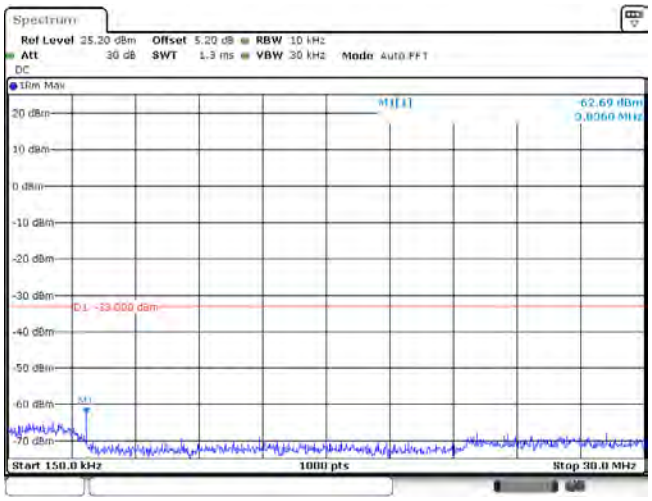

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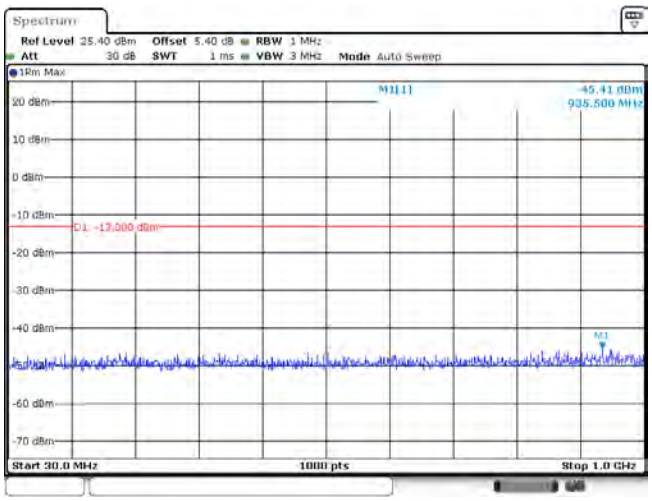

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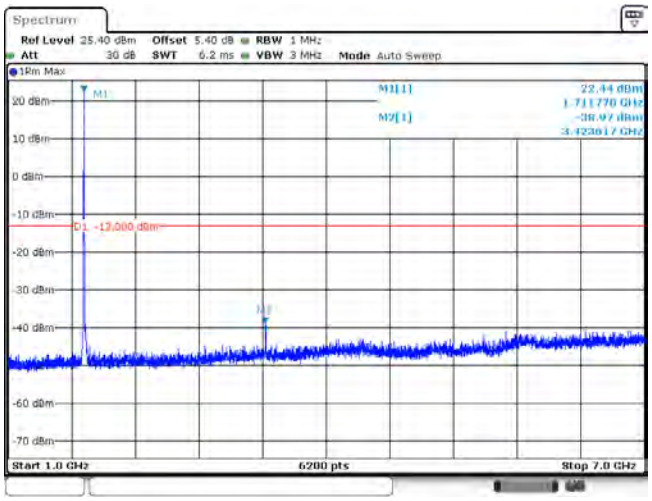

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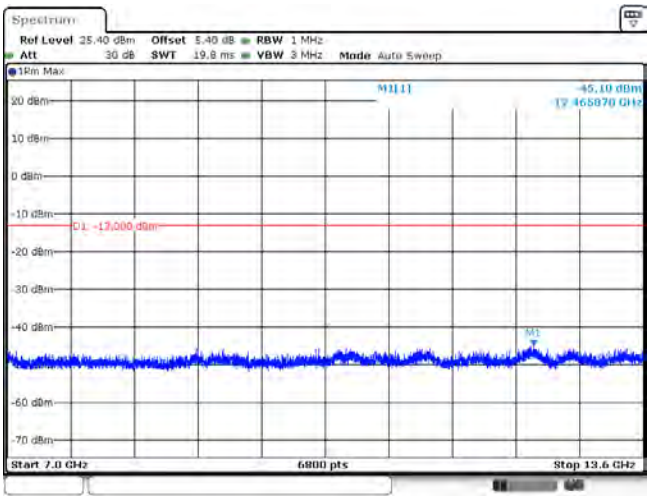

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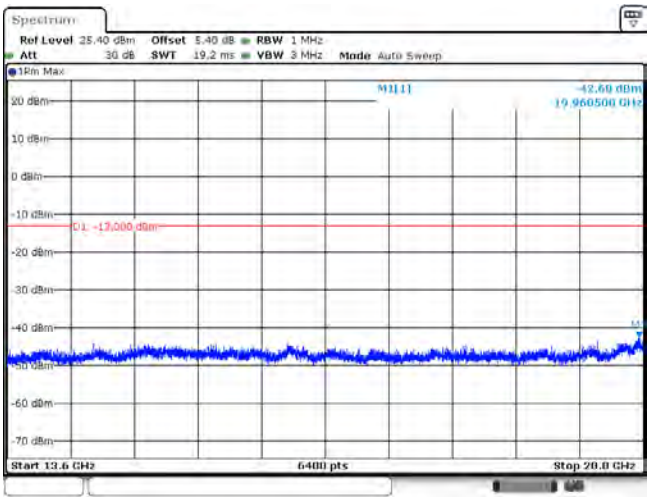

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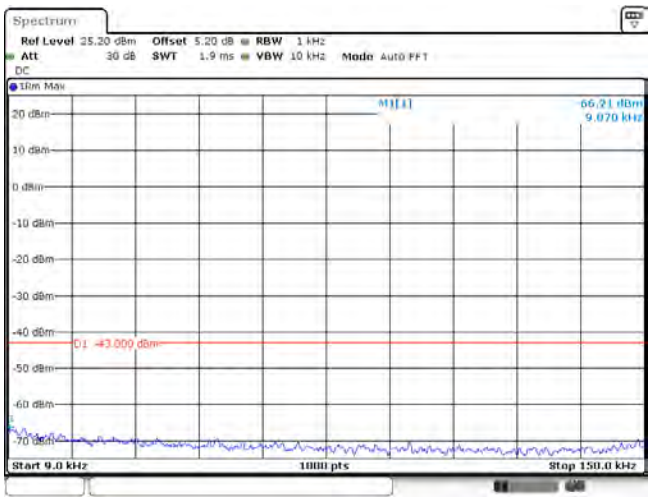

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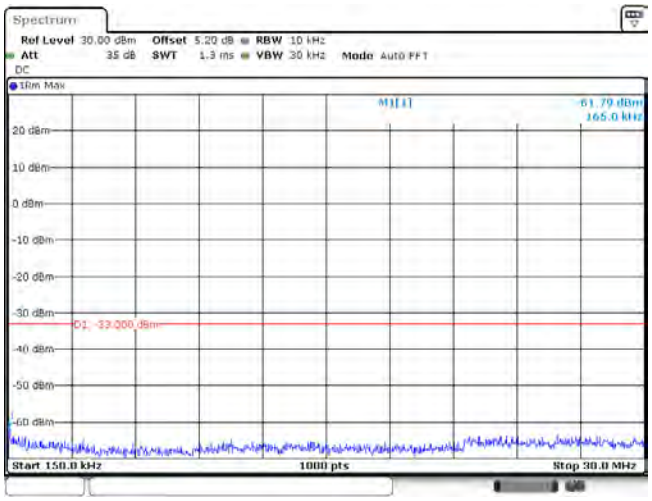

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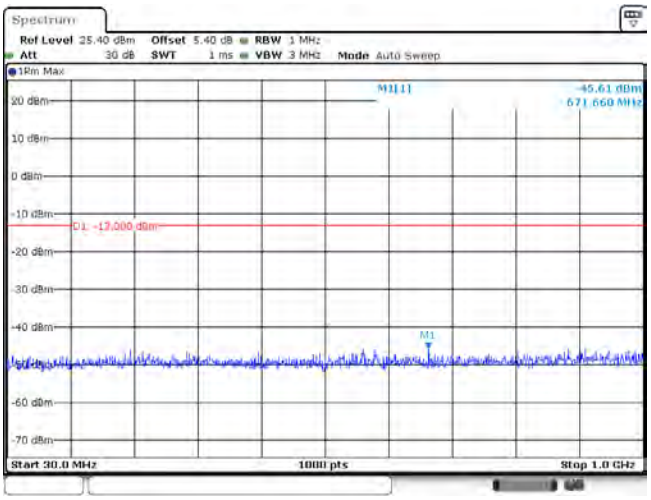

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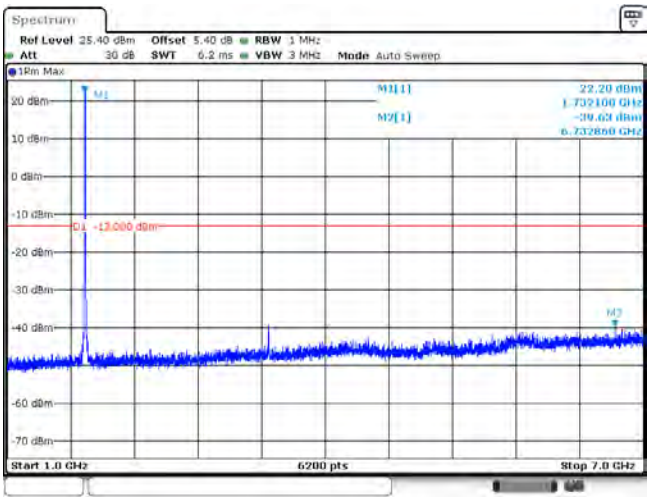

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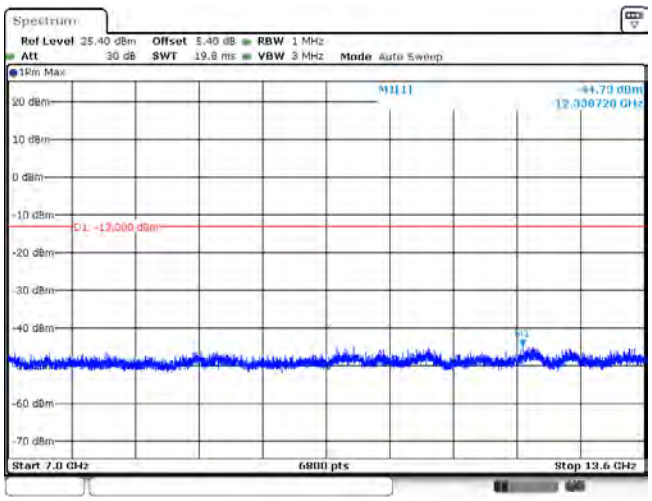

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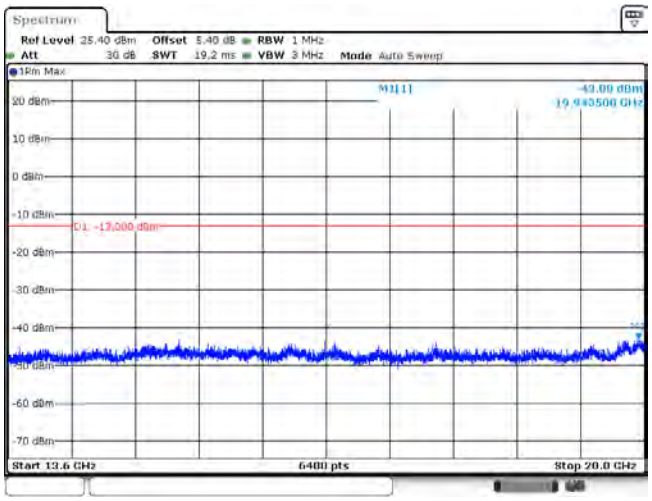

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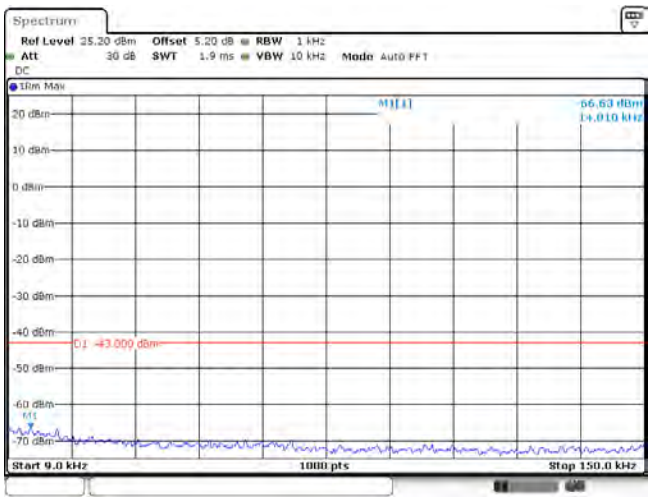

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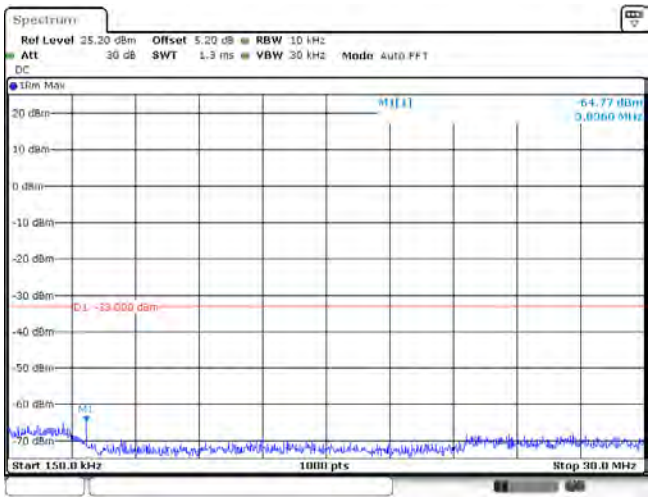

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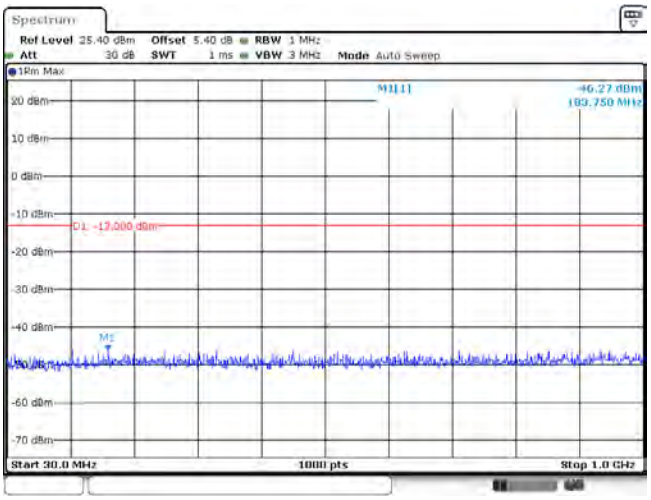

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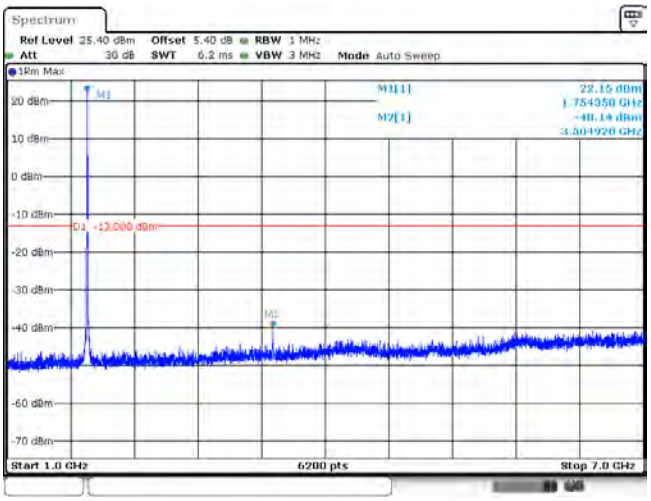

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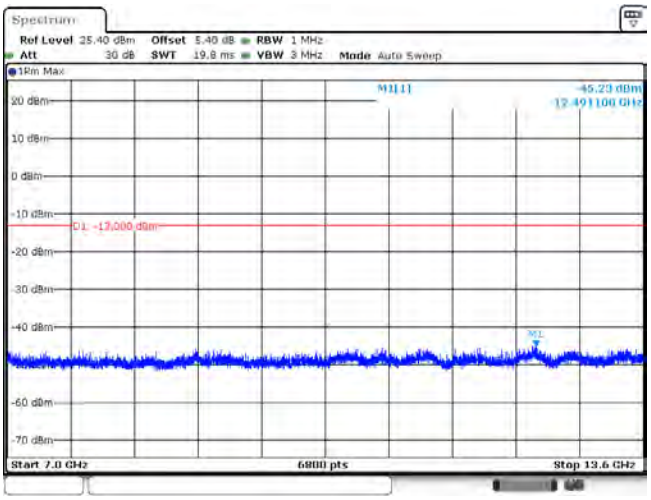

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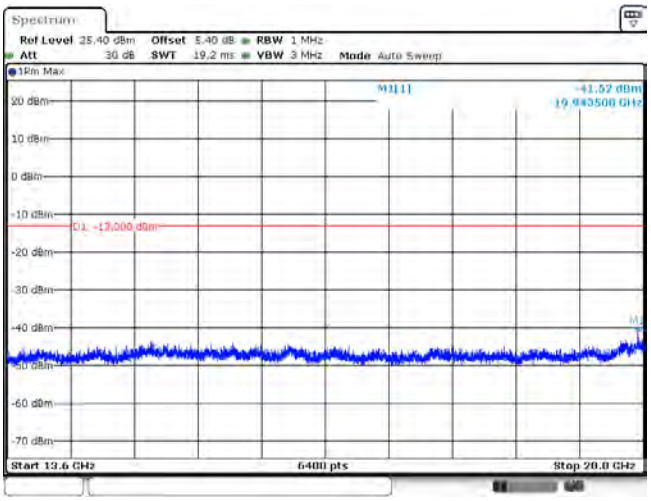

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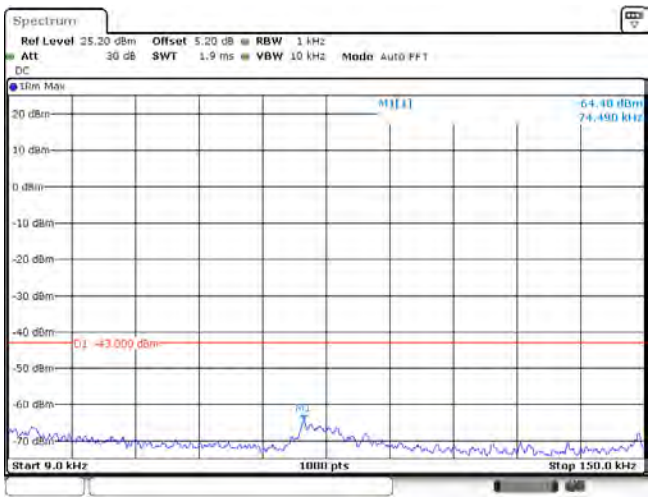

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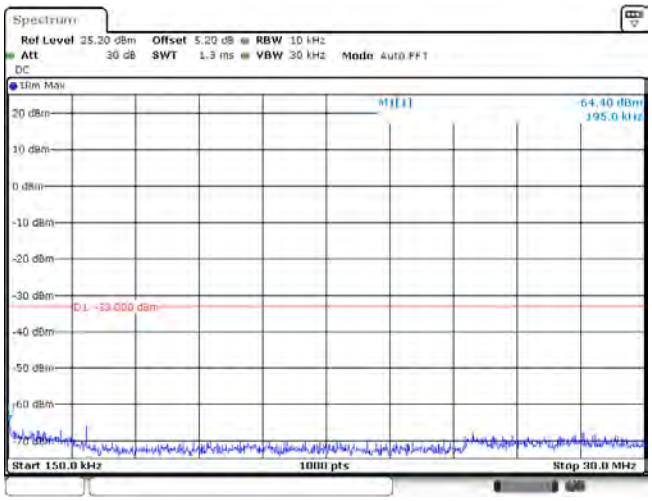

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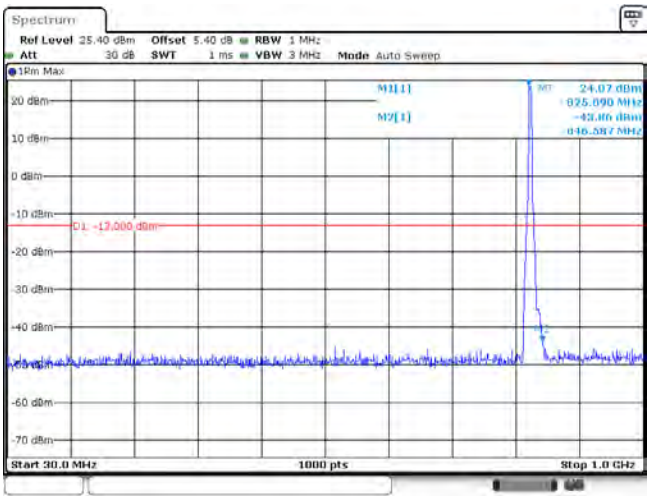

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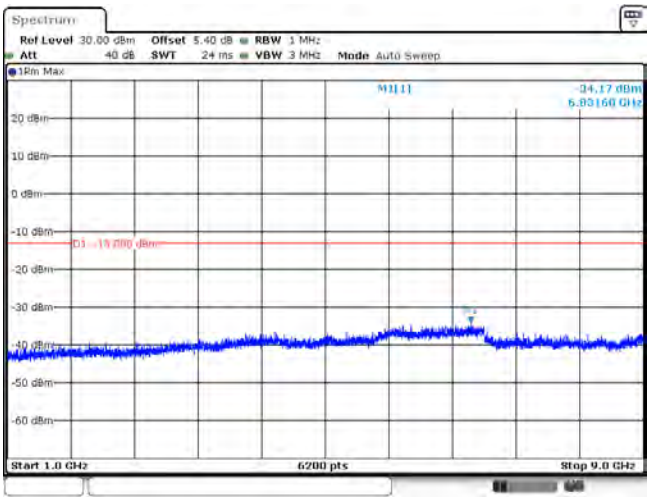

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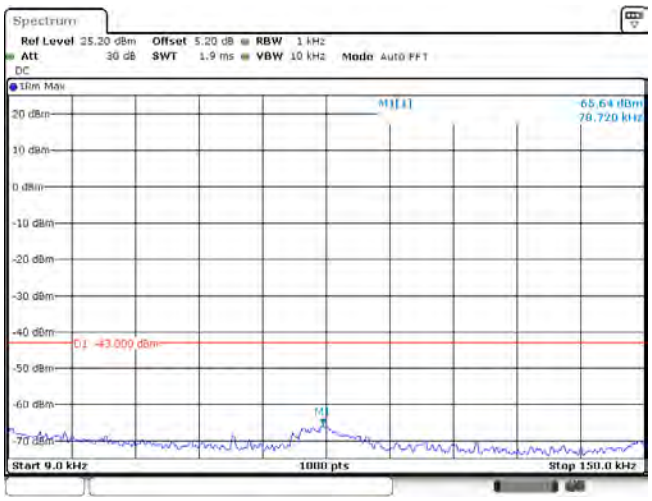

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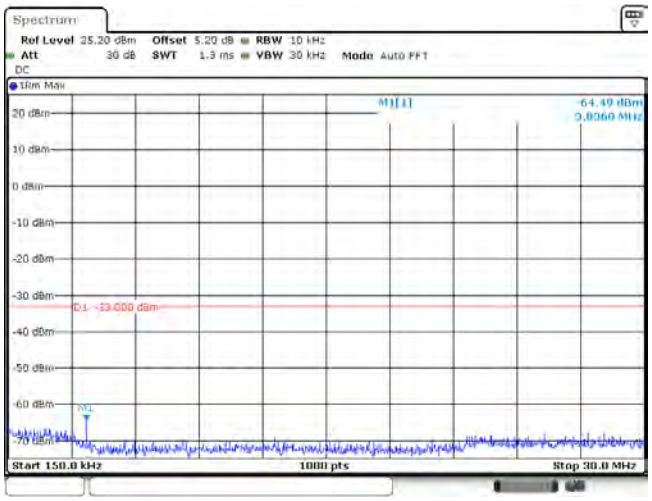

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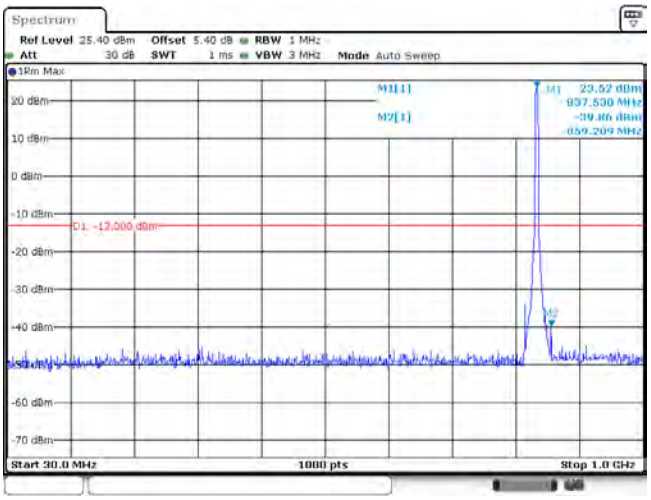

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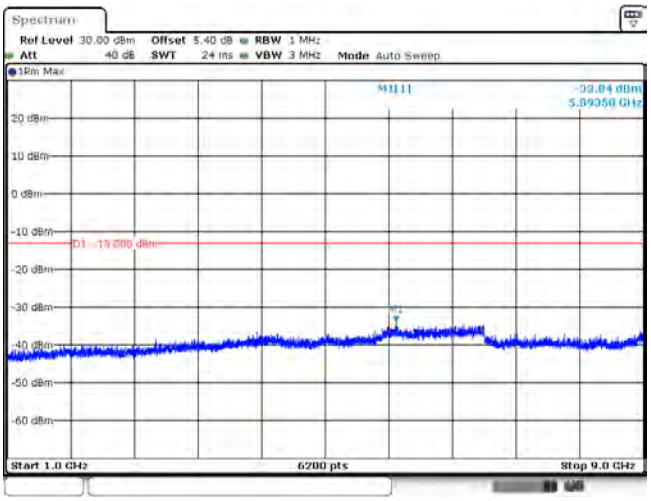

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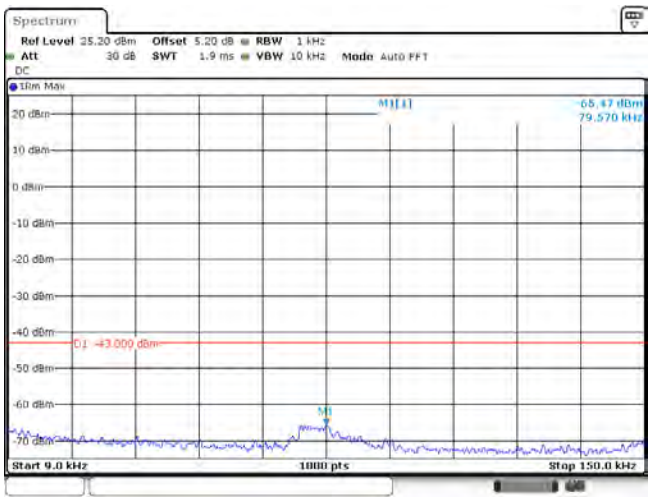

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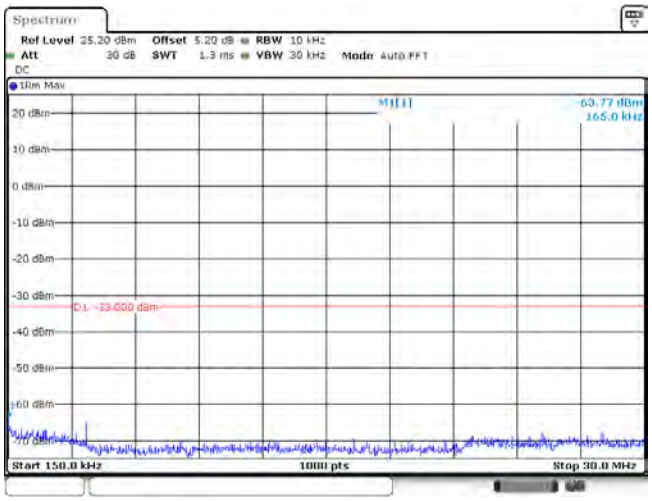

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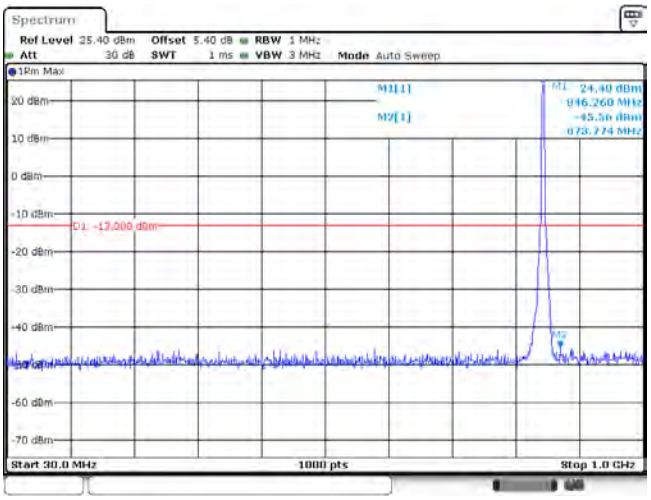

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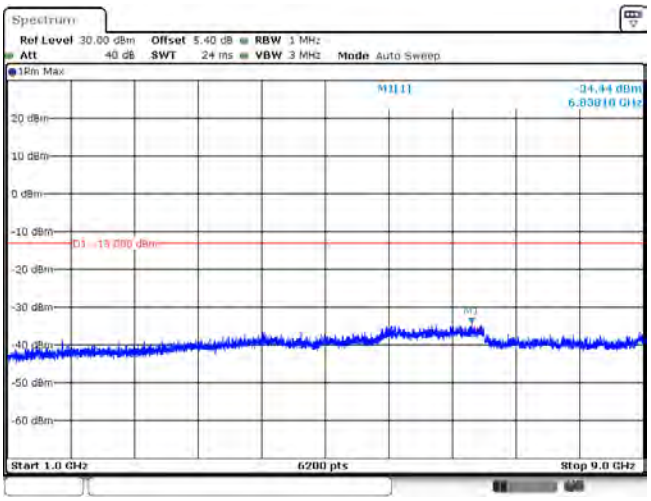

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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1. Test Mode =WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.1488	-64.94	-13.00	51.94	Vertical
333.8192	-68.45	-13.00	55.45	Vertical
1257.2515	-47.79	-13.00	34.79	Vertical
3703.0234	-47.28	-13.00	34.28	Vertical
7409.6470	-43.22	-13.00	30.22	Vertical
17996.4999	-34.57	-13.00	21.57	Vertical
39.7975	-63.71	-13.00	50.71	Horizontal
228.4234	-67.92	-13.00	54.92	Horizontal
1611.3223	-44.21	-13.00	31.21	Horizontal
3707.0236	-47.00	-13.00	34.00	Horizontal
7412.6471	-46.39	-13.00	33.39	Horizontal
16394.4465	-37.81	-13.00	24.81	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-70.17	-13.00	57.17	Vertical
110.1745	-64.92	-13.00	51.92	Vertical
1355.6711	-47.54	-13.00	34.54	Vertical
3758.5253	-47.16	-13.00	34.16	Vertical
7516.1505	-46.10	-13.00	33.10	Vertical
17996.9999	-34.42	-13.00	21.42	Vertical
44.8417	-63.40	-13.00	50.40	Horizontal
228.8599	-68.11	-13.00	55.11	Horizontal
2699.5399	-35.03	-13.00	22.03	Horizontal
3761.0254	-48.05	-13.00	35.05	Horizontal
5643.5881	-52.57	-13.00	39.57	Horizontal
16385.4462	-38.40	-13.00	25.40	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
45.7148	-70.95	-13.00	57.95	Vertical
118.3714	-64.43	-13.00	51.43	Vertical
1281.6563	-47.65	-13.00	34.65	Vertical

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3817.0272	-48.29	-13.00	35.29	Vertical
7633.1544	-46.80	-13.00	33.80	Vertical
17994.9998	-34.50	-13.00	21.50	Vertical
42.0286	-63.74	-13.00	50.74	Horizontal
235.4078	-67.79	-13.00	54.79	Horizontal
1574.5149	-44.71	-13.00	31.71	Horizontal
3816.5272	-48.27	-13.00	35.27	Horizontal
7627.1542	-50.85	-13.00	37.85	Horizontal
16397.4466	-38.56	-13.00	25.56	Horizontal

7.2. Test Band = WCDMA Band IV

7.2.1. Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.4068	-69.21	-13.00	56.21	Vertical
109.3985	-64.61	-13.00	51.61	Vertical
1334.0668	-47.58	-13.00	34.58	Vertical
3423.5141	-44.22	-13.00	31.22	Vertical
6846.1282	-47.33	-13.00	34.33	Vertical
17997.4999	-34.46	-13.00	21.46	Vertical
45.1328	-64.32	-13.00	51.32	Horizontal
247.5819	-67.87	-13.00	54.87	Horizontal
1464.4929	-46.66	-13.00	33.66	Horizontal
3422.5141	-43.88	-13.00	30.88	Horizontal
9317.7106	-48.71	-13.00	35.71	Horizontal
16395.9465	-38.61	-13.00	25.61	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.6249	-70.54	-13.00	57.54	Vertical
109.0590	-64.09	-13.00	51.09	Vertical
2693.9388	-36.52	-13.00	23.52	Vertical
3463.0154	-46.03	-13.00	33.03	Vertical
6934.1311	-45.40	-13.00	32.40	Vertical
17914.9972	-34.50	-13.00	21.50	Vertical
37.2754	-63.84	-13.00	50.84	Horizontal
230.2180	-67.73	-13.00	54.73	Horizontal
2699.9400	-35.20	-13.00	22.20	Horizontal
3464.0155	-44.64	-13.00	31.64	Horizontal
6930.6310	-50.57	-13.00	37.57	Horizontal
16402.4467	-38.30	-13.00	25.30	Horizontal

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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.8835	-64.48	-13.00	51.48	Vertical
373.2517	-68.40	-13.00	55.40	Vertical
2701.9404	-36.48	-13.00	23.48	Vertical
3506.5169	-45.87	-13.00	32.87	Vertical
7006.6336	-44.99	-13.00	31.99	Vertical
17986.9996	-34.53	-13.00	21.53	Vertical
42.7561	-63.52	-13.00	50.52	Horizontal
233.0797	-67.87	-13.00	54.87	Horizontal
2691.9384	-35.12	-13.00	22.12	Horizontal
3507.0169	-45.45	-13.00	32.45	Horizontal
7010.6337	-49.47	-13.00	36.47	Horizontal
16394.4465	-38.19	-13.00	25.19	Horizontal

7.3. Test Band = WCDMA Band V

7.3.1. Test Mode =WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.6781	-63.77	-13.00	50.77	Vertical
349.7765	-68.69	-13.00	55.69	Vertical
1674.5349	-52.71	-13.00	39.71	Vertical
4187.5396	-58.06	-13.00	45.06	Vertical
7976.6659	-52.27	-13.00	39.27	Vertical
17995.9999	-34.51	-13.00	21.51	Vertical
42.6106	-64.13	-13.00	51.13	Horizontal
224.4947	-67.07	-13.00	54.07	Horizontal
1674.1348	-51.70	-13.00	38.70	Horizontal
2697.1394	-54.74	-13.00	41.74	Horizontal
8853.6951	-51.06	-13.00	38.06	Horizontal
16384.9462	-38.64	-13.00	25.64	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.6410	-65.10	-13.00	52.10	Vertical
293.9502	-69.92	-13.00	56.92	Vertical
1650.9302	-51.64	-13.00	38.64	Vertical
4960.5654	-55.79	-13.00	42.79	Vertical
10698.7566	-47.37	-13.00	34.37	Vertical
17999.5000	-34.22	-13.00	21.22	Vertical

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44.8417	-64.21	-13.00	51.21	Horizontal
230.5575	-67.10	-13.00	54.10	Horizontal
1650.5301	-50.36	-13.00	37.36	Horizontal
3309.5103	-54.03	-13.00	41.03	Horizontal
9275.7092	-48.43	-13.00	35.43	Horizontal
16400.9467	-38.28	-13.00	25.28	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.2812	-70.68	-13.00	57.68	Vertical
111.3386	-64.94	-13.00	51.94	Vertical
451.0011	-66.77	-13.00	53.77	Vertical
1691.3383	-51.96	-13.00	38.96	Vertical
5073.5691	-55.67	-13.00	42.67	Vertical
17999.0000	-33.88	-13.00	20.88	Vertical
43.0472	-63.73	-13.00	50.73	Horizontal
236.1353	-68.35	-13.00	55.35	Horizontal
1694.9390	-50.87	-13.00	37.87	Horizontal
2447.8896	-51.42	-13.00	38.42	Horizontal
7385.6462	-52.64	-13.00	39.64	Horizontal
16388.9463	-38.60	-13.00	25.60	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 had been displayed.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Modulation	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	15.00	0.008096	±2.5	PASS
Band II	QPSK	9262	VN	TN	3.37	0.001821	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.47	-0.005113	±2.5	PASS
Band II	QPSK	9400	VL	TN	-9.67	-0.005144	±2.5	PASS
Band II	QPSK	9400	VN	TN	-5.25	-0.002791	±2.5	PASS
Band II	QPSK	9400	VH	TN	10.41	0.005536	±2.5	PASS
Band II	QPSK	9538	VL	TN	9.87	0.005174	±2.5	PASS
Band II	QPSK	9538	VN	TN	-4.83	-0.002531	±2.5	PASS
Band II	QPSK	9538	VH	TN	-7.73	-0.004053	±2.5	PASS
Band II	16QAM	9262	VL	TN	1.88	0.001015	±2.5	PASS
Band II	16QAM	9262	VN	TN	7.70	0.004159	±2.5	PASS
Band II	16QAM	9262	VH	TN	-13.74	-0.007419	±2.5	PASS
Band II	16QAM	9400	VL	TN	10.31	0.005483	±2.5	PASS
Band II	16QAM	9400	VN	TN	-6.53	-0.003473	±2.5	PASS
Band II	16QAM	9400	VH	TN	-12.53	-0.006663	±2.5	PASS
Band II	16QAM	9538	VL	TN	-12.83	-0.006728	±2.5	PASS
Band II	16QAM	9538	VN	TN	-5.65	-0.002961	±2.5	PASS
Band II	16QAM	9538	VH	TN	3.09	0.001618	±2.5	PASS
Band IV	QPSK	1312	VL	TN	12.81	0.007480	±2.5	PASS
Band IV	QPSK	1312	VN	TN	-10.04	-0.005865	±2.5	PASS
Band IV	QPSK	1312	VH	TN	14.00	0.008177	±2.5	PASS
Band IV	QPSK	1413	VL	TN	-1.22	-0.000703	±2.5	PASS
Band IV	QPSK	1413	VN	TN	-4.37	-0.002520	±2.5	PASS
Band IV	QPSK	1413	VH	TN	-6.61	-0.003813	±2.5	PASS
Band IV	QPSK	1513	VL	TN	0.10	0.000057	±2.5	PASS
Band IV	QPSK	1513	VN	TN	12.87	0.007341	±2.5	PASS
Band IV	QPSK	1513	VH	TN	11.48	0.006553	±2.5	PASS
Band IV	16QAM	1312	VL	TN	11.37	0.006641	±2.5	PASS
Band IV	16QAM	1312	VN	TN	1.03	0.000601	±2.5	PASS
Band IV	16QAM	1312	VH	TN	-12.43	-0.007256	±2.5	PASS
Band IV	16QAM	1413	VL	TN	-9.89	-0.005709	±2.5	PASS
Band IV	16QAM	1413	VN	TN	-5.64	-0.003253	±2.5	PASS

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Band IV	16QAM	1413	VH	TN	14.84	0.008565	±2.5	PASS
Band IV	16QAM	1513	VL	TN	-4.31	-0.002458	±2.5	PASS
Band IV	16QAM	1513	VN	TN	-9.80	-0.005594	±2.5	PASS
Band IV	16QAM	1513	VH	TN	4.62	0.002634	±2.5	PASS
Band V	QPSK	4132	VL	TN	6.63	0.008022	±2.5	PASS
Band V	QPSK	4132	VN	TN	-11.92	-0.014428	±2.5	PASS
Band V	QPSK	4132	VH	TN	1.79	0.002161	±2.5	PASS
Band V	QPSK	4182	VL	TN	-10.74	-0.012842	±2.5	PASS
Band V	QPSK	4182	VN	TN	13.05	0.015608	±2.5	PASS
Band V	QPSK	4182	VH	TN	-6.13	-0.007329	±2.5	PASS
Band V	QPSK	4233	VL	TN	6.11	0.007222	±2.5	PASS
Band V	QPSK	4233	VN	TN	-8.64	-0.010210	±2.5	PASS
Band V	QPSK	4233	VH	TN	-13.33	-0.015742	±2.5	PASS
Band V	16QAM	4132	VL	TN	-6.91	-0.008356	±2.5	PASS
Band V	16QAM	4132	VN	TN	-1.64	-0.001989	±2.5	PASS
Band V	16QAM	4132	VH	TN	-1.84	-0.002225	±2.5	PASS
Band V	16QAM	4182	VL	TN	-8.34	-0.009966	±2.5	PASS
Band V	16QAM	4182	VN	TN	-1.14	-0.001362	±2.5	PASS
Band V	16QAM	4182	VH	TN	4.16	0.004975	±2.5	PASS
Band V	16QAM	4233	VL	TN	-9.70	-0.011454	±2.5	PASS
Band V	16QAM	4233	VN	TN	-2.54	-0.003002	±2.5	PASS
Band V	16QAM	4233	VH	TN	9.03	0.010671	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Modulation	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	2.09	0.001127	±2.5	PASS
Band II	QPSK	9262	VN	-20	2.56	0.001382	±2.5	PASS
Band II	QPSK	9262	VN	-10	13.36	0.007214	±2.5	PASS
Band II	QPSK	9262	VN	0	0.96	0.000519	±2.5	PASS
Band II	QPSK	9262	VN	10	-8.66	-0.004678	±2.5	PASS
Band II	QPSK	9262	VN	20	7.52	0.004059	±2.5	PASS
Band II	QPSK	9262	VN	30	3.95	0.002134	±2.5	PASS
Band II	QPSK	9262	VN	40	10.32	0.005571	±2.5	PASS
Band II	QPSK	9262	VN	50	8.36	0.004511	±2.5	PASS
Band II	QPSK	9400	VN	-30	1.83	0.000974	±2.5	PASS
Band II	QPSK	9400	VN	-20	9.43	0.005016	±2.5	PASS
Band II	QPSK	9400	VN	-10	0.26	0.000137	±2.5	PASS
Band II	QPSK	9400	VN	0	-8.06	-0.004287	±2.5	PASS

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Band II	QPSK	9400	VN	10	12.62	0.006712	±2.5	PASS
Band II	QPSK	9400	VN	20	2.59	0.001379	±2.5	PASS
Band II	QPSK	9400	VN	30	-8.18	-0.004350	±2.5	PASS
Band II	QPSK	9400	VN	40	-0.05	-0.000025	±2.5	PASS
Band II	QPSK	9400	VN	50	1.62	0.000859	±2.5	PASS
Band II	QPSK	9538	VN	-30	-1.38	-0.000723	±2.5	PASS
Band II	QPSK	9538	VN	-20	13.16	0.006900	±2.5	PASS
Band II	QPSK	9538	VN	-10	-2.04	-0.001070	±2.5	PASS
Band II	QPSK	9538	VN	0	-13.28	-0.006961	±2.5	PASS
Band II	QPSK	9538	VN	10	-10.79	-0.005656	±2.5	PASS
Band II	QPSK	9538	VN	20	-13.31	-0.006979	±2.5	PASS
Band II	QPSK	9538	VN	30	8.98	0.004710	±2.5	PASS
Band II	QPSK	9538	VN	40	-1.45	-0.000758	±2.5	PASS
Band II	QPSK	9538	VN	50	-0.56	-0.000294	±2.5	PASS
Band II	16QAM	9262	VN	-30	-1.09	-0.000586	±2.5	PASS
Band II	16QAM	9262	VN	-20	9.18	0.004958	±2.5	PASS
Band II	16QAM	9262	VN	-10	4.23	0.002282	±2.5	PASS
Band II	16QAM	9262	VN	0	-12.48	-0.006735	±2.5	PASS
Band II	16QAM	9262	VN	10	-12.42	-0.006705	±2.5	PASS
Band II	16QAM	9262	VN	20	2.19	0.001182	±2.5	PASS
Band II	16QAM	9262	VN	30	-10.64	-0.005745	±2.5	PASS
Band II	16QAM	9262	VN	40	-14.94	-0.008067	±2.5	PASS
Band II	16QAM	9262	VN	50	4.85	0.002618	±2.5	PASS
Band II	16QAM	9400	VN	-30	13.85	0.007369	±2.5	PASS
Band II	16QAM	9400	VN	-20	1.77	0.000942	±2.5	PASS
Band II	16QAM	9400	VN	-10	-11.17	-0.005941	±2.5	PASS
Band II	16QAM	9400	VN	0	-10.56	-0.005615	±2.5	PASS
Band II	16QAM	9400	VN	10	-10.75	-0.005719	±2.5	PASS
Band II	16QAM	9400	VN	20	-3.35	-0.001780	±2.5	PASS
Band II	16QAM	9400	VN	30	-2.88	-0.001533	±2.5	PASS
Band II	16QAM	9400	VN	40	11.64	0.006194	±2.5	PASS
Band II	16QAM	9400	VN	50	6.45	0.003431	±2.5	PASS
Band II	16QAM	9538	VN	-30	-13.23	-0.006934	±2.5	PASS
Band II	16QAM	9538	VN	-20	8.54	0.004478	±2.5	PASS
Band II	16QAM	9538	VN	-10	-0.70	-0.000369	±2.5	PASS
Band II	16QAM	9538	VN	0	-5.48	-0.002874	±2.5	PASS
Band II	16QAM	9538	VN	10	2.90	0.001520	±2.5	PASS
Band II	16QAM	9538	VN	20	-12.51	-0.006556	±2.5	PASS

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Band II	16QAM	9538	VN	30	-7.24	-0.003798	±2.5	PASS
Band II	16QAM	9538	VN	40	14.33	0.007512	±2.5	PASS
Band II	16QAM	9538	VN	50	11.37	0.005962	±2.5	PASS
Band IV	QPSK	1312	VN	-30	12.15	0.007094	±2.5	PASS
Band IV	QPSK	1312	VN	-20	4.03	0.002352	±2.5	PASS
Band IV	QPSK	1312	VN	-10	4.75	0.002772	±2.5	PASS
Band IV	QPSK	1312	VN	0	6.27	0.003664	±2.5	PASS
Band IV	QPSK	1312	VN	10	10.91	0.006370	±2.5	PASS
Band IV	QPSK	1312	VN	20	-13.35	-0.007793	±2.5	PASS
Band IV	QPSK	1312	VN	30	1.55	0.000906	±2.5	PASS
Band IV	QPSK	1312	VN	40	0.91	0.000530	±2.5	PASS
Band IV	QPSK	1312	VN	50	7.25	0.004231	±2.5	PASS
Band IV	QPSK	1413	VN	-30	-8.24	-0.004756	±2.5	PASS
Band IV	QPSK	1413	VN	-20	1.09	0.000631	±2.5	PASS
Band IV	QPSK	1413	VN	-10	-1.25	-0.000720	±2.5	PASS
Band IV	QPSK	1413	VN	0	4.37	0.002525	±2.5	PASS
Band IV	QPSK	1413	VN	10	-5.66	-0.003269	±2.5	PASS
Band IV	QPSK	1413	VN	20	5.09	0.002937	±2.5	PASS
Band IV	QPSK	1413	VN	30	-6.10	-0.003521	±2.5	PASS
Band IV	QPSK	1413	VN	40	7.83	0.004519	±2.5	PASS
Band IV	QPSK	1413	VN	50	-2.75	-0.001589	±2.5	PASS
Band IV	QPSK	1513	VN	-30	8.82	0.005033	±2.5	PASS
Band IV	QPSK	1513	VN	-20	-1.17	-0.000670	±2.5	PASS
Band IV	QPSK	1513	VN	-10	13.09	0.007471	±2.5	PASS
Band IV	QPSK	1513	VN	0	0.55	0.000313	±2.5	PASS
Band IV	QPSK	1513	VN	10	-8.91	-0.005084	±2.5	PASS
Band IV	QPSK	1513	VN	20	4.93	0.002815	±2.5	PASS
Band IV	QPSK	1513	VN	30	4.07	0.002322	±2.5	PASS
Band IV	QPSK	1513	VN	40	-7.45	-0.004249	±2.5	PASS
Band IV	QPSK	1513	VN	50	-4.78	-0.002728	±2.5	PASS
Band IV	16QAM	1312	VN	-30	5.07	0.002960	±2.5	PASS
Band IV	16QAM	1312	VN	-20	2.54	0.001481	±2.5	PASS
Band IV	16QAM	1312	VN	-10	7.87	0.004595	±2.5	PASS
Band IV	16QAM	1312	VN	0	4.54	0.002654	±2.5	PASS
Band IV	16QAM	1312	VN	10	7.74	0.004518	±2.5	PASS
Band IV	16QAM	1312	VN	20	11.99	0.007003	±2.5	PASS
Band IV	16QAM	1312	VN	30	12.40	0.007241	±2.5	PASS
Band IV	16QAM	1312	VN	40	6.65	0.003886	±2.5	PASS

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Band IV	16QAM	1312	VN	50	-5.99	-0.003496	±2.5	PASS
Band IV	16QAM	1413	VN	-30	-12.37	-0.007139	±2.5	PASS
Band IV	16QAM	1413	VN	-20	9.66	0.005575	±2.5	PASS
Band IV	16QAM	1413	VN	-10	-3.35	-0.001931	±2.5	PASS
Band IV	16QAM	1413	VN	0	-8.57	-0.004947	±2.5	PASS
Band IV	16QAM	1413	VN	10	13.72	0.007917	±2.5	PASS
Band IV	16QAM	1413	VN	20	0.23	0.000134	±2.5	PASS
Band IV	16QAM	1413	VN	30	7.58	0.004377	±2.5	PASS
Band IV	16QAM	1413	VN	40	-7.73	-0.004459	±2.5	PASS
Band IV	16QAM	1413	VN	50	4.74	0.002735	±2.5	PASS
Band IV	16QAM	1513	VN	-30	3.89	0.002222	±2.5	PASS
Band IV	16QAM	1513	VN	-20	-12.97	-0.007399	±2.5	PASS
Band IV	16QAM	1513	VN	-10	1.88	0.001070	±2.5	PASS
Band IV	16QAM	1513	VN	0	7.61	0.004344	±2.5	PASS
Band IV	16QAM	1513	VN	10	-1.32	-0.000755	±2.5	PASS
Band IV	16QAM	1513	VN	20	-1.46	-0.000834	±2.5	PASS
Band IV	16QAM	1513	VN	30	-10.84	-0.006185	±2.5	PASS
Band IV	16QAM	1513	VN	40	6.29	0.003587	±2.5	PASS
Band IV	16QAM	1513	VN	50	-8.34	-0.004756	±2.5	PASS
Band V	QPSK	4132	VN	-30	0.32	0.000391	±2.5	PASS
Band V	QPSK	4132	VN	-20	1.79	0.002161	±2.5	PASS
Band V	QPSK	4132	VN	-10	-1.37	-0.001653	±2.5	PASS
Band V	QPSK	4132	VN	0	-10.63	-0.012864	±2.5	PASS
Band V	QPSK	4132	VN	10	1.49	0.001803	±2.5	PASS
Band V	QPSK	4132	VN	20	1.00	0.001209	±2.5	PASS
Band V	QPSK	4132	VN	30	11.00	0.013315	±2.5	PASS
Band V	QPSK	4132	VN	40	2.91	0.003527	±2.5	PASS
Band V	QPSK	4132	VN	50	12.63	0.015281	±2.5	PASS
Band V	QPSK	4182	VN	-30	8.11	0.009692	±2.5	PASS
Band V	QPSK	4182	VN	-20	-6.06	-0.007248	±2.5	PASS
Band V	QPSK	4182	VN	-10	1.42	0.001700	±2.5	PASS
Band V	QPSK	4182	VN	0	6.78	0.008111	±2.5	PASS
Band V	QPSK	4182	VN	10	0.04	0.000054	±2.5	PASS
Band V	QPSK	4182	VN	20	2.32	0.002772	±2.5	PASS
Band V	QPSK	4182	VN	30	-3.23	-0.003867	±2.5	PASS
Band V	QPSK	4182	VN	40	6.11	0.007310	±2.5	PASS
Band V	QPSK	4182	VN	50	-10.47	-0.012521	±2.5	PASS
Band V	QPSK	4233	VN	-30	7.29	0.008614	±2.5	PASS

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Band V	QPSK	4233	VN	-20	-12.42	-0.014667	±2.5	PASS
Band V	QPSK	4233	VN	-10	4.44	0.005250	±2.5	PASS
Band V	QPSK	4233	VN	0	-8.56	-0.010109	±2.5	PASS
Band V	QPSK	4233	VN	10	2.25	0.002654	±2.5	PASS
Band V	QPSK	4233	VN	20	0.89	0.001048	±2.5	PASS
Band V	QPSK	4233	VN	30	-9.92	-0.011714	±2.5	PASS
Band V	QPSK	4233	VN	40	-7.17	-0.008469	±2.5	PASS
Band V	QPSK	4233	VN	50	11.37	0.013431	±2.5	PASS
Band V	16QAM	4132	VN	-30	-8.97	-0.010850	±2.5	PASS
Band V	16QAM	4132	VN	-20	-11.43	-0.013832	±2.5	PASS
Band V	16QAM	4132	VN	-10	-4.49	-0.005436	±2.5	PASS
Band V	16QAM	4132	VN	0	-12.48	-0.015102	±2.5	PASS
Band V	16QAM	4132	VN	10	-6.51	-0.007876	±2.5	PASS
Band V	16QAM	4132	VN	20	4.84	0.005862	±2.5	PASS
Band V	16QAM	4132	VN	30	3.11	0.003763	±2.5	PASS
Band V	16QAM	4132	VN	40	6.00	0.007265	±2.5	PASS
Band V	16QAM	4132	VN	50	12.77	0.015449	±2.5	PASS
Band V	16QAM	4182	VN	-30	3.92	0.004685	±2.5	PASS
Band V	16QAM	4182	VN	-20	-1.67	-0.001993	±2.5	PASS
Band V	16QAM	4182	VN	-10	-5.20	-0.006219	±2.5	PASS
Band V	16QAM	4182	VN	0	-9.46	-0.011314	±2.5	PASS
Band V	16QAM	4182	VN	10	7.74	0.009251	±2.5	PASS
Band V	16QAM	4182	VN	20	4.88	0.005838	±2.5	PASS
Band V	16QAM	4182	VN	30	-7.01	-0.008378	±2.5	PASS
Band V	16QAM	4182	VN	40	-5.42	-0.006477	±2.5	PASS
Band V	16QAM	4182	VN	50	2.80	0.003343	±2.5	PASS
Band V	16QAM	4233	VN	-30	-6.02	-0.007111	±2.5	PASS
Band V	16QAM	4233	VN	-20	12.05	0.014236	±2.5	PASS
Band V	16QAM	4233	VN	-10	-13.34	-0.015757	±2.5	PASS
Band V	16QAM	4233	VN	0	14.02	0.016564	±2.5	PASS
Band V	16QAM	4233	VN	10	-2.37	-0.002803	±2.5	PASS
Band V	16QAM	4233	VN	20	4.33	0.005111	±2.5	PASS
Band V	16QAM	4233	VN	30	5.50	0.006496	±2.5	PASS
Band V	16QAM	4233	VN	40	-9.30	-0.010990	±2.5	PASS
Band V	16QAM	4233	VN	50	14.47	0.017096	±2.5	PASS

The End

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