Appendix B

WCDMA Band II & IV & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	24.62	22.12	33.00	PASS
Band II	9400	24.54	22.04	33.00	PASS
Band II	9538	24.52	22.02	33.00	PASS
Band IV	1312	24.31	21.31	30.00	PASS
Band IV	1413	24.29	21.29	30.00	PASS
Band IV	1513	24.24	21.24	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.87	17.72	38.45	PASS
Band V	4182	24.85	17.70	38.45	PASS
Band V	4233	24.94	17.79	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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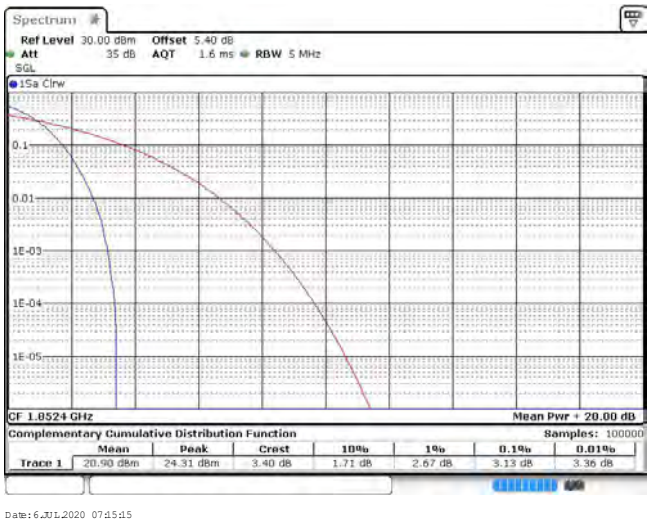
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	8.70	13	PASS
Band II	9538	2.96	13	PASS
Band IV	1312	3.01	13	PASS
Band IV	1413	3.16	13	PASS
Band IV	1513	2.78	13	PASS
Band V	4132	2.55	13	PASS
Band V	4182	2.64	13	PASS
Band V	4233	2.61	13	PASS

2.2. Test Plots



Band II_9262

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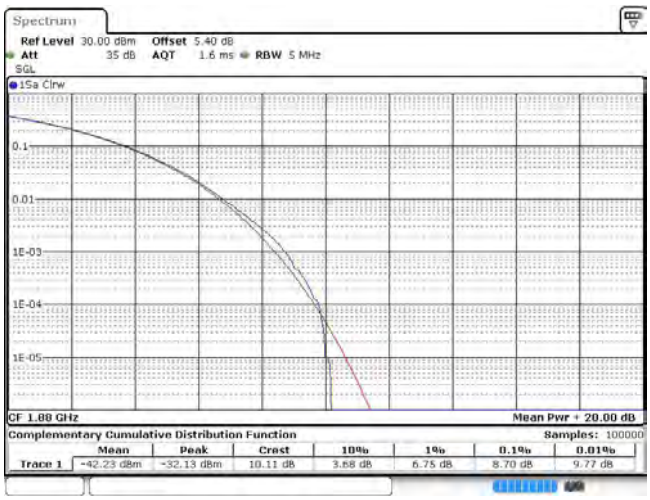
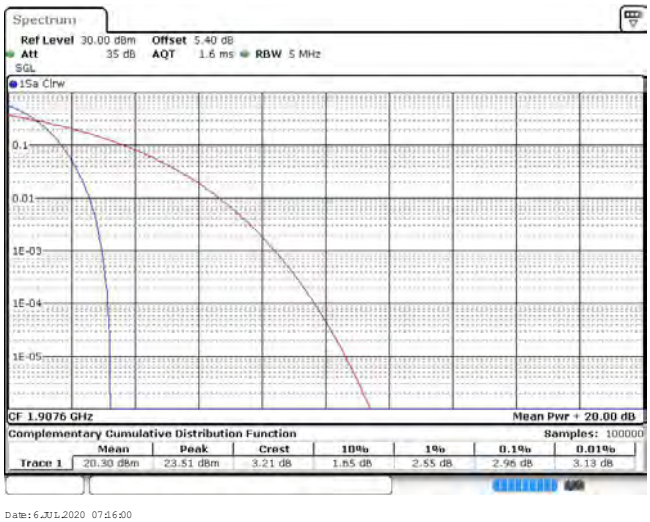


Band II_9400



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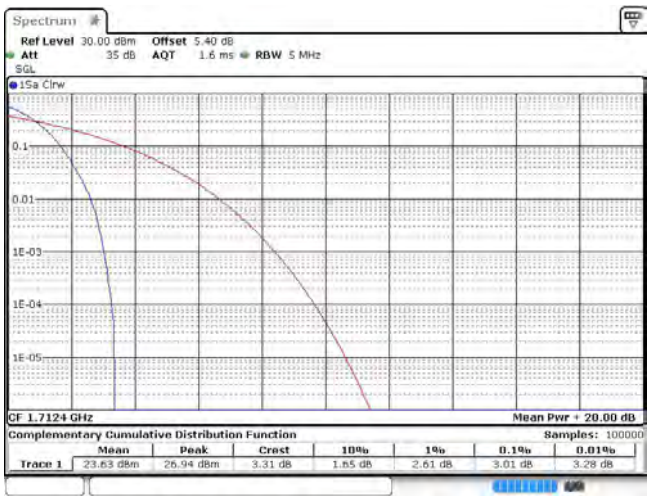
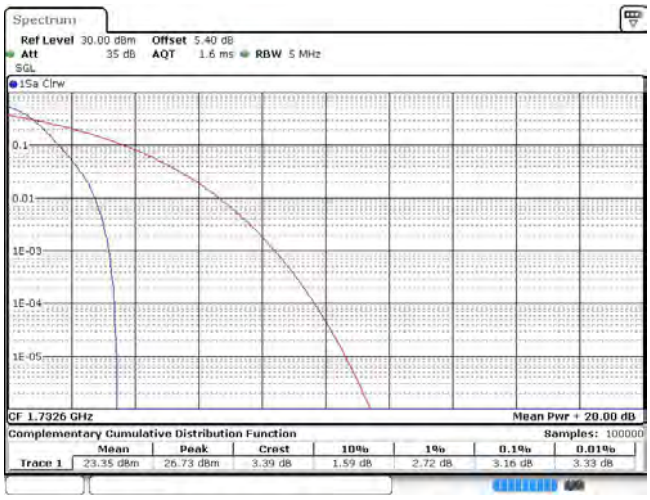


Band IV_1312



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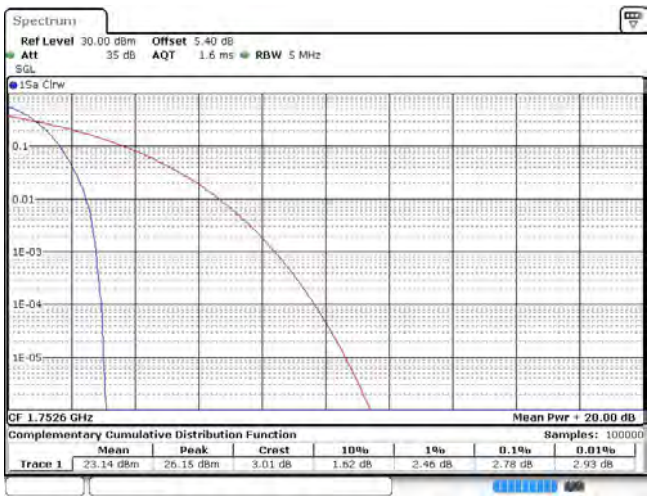

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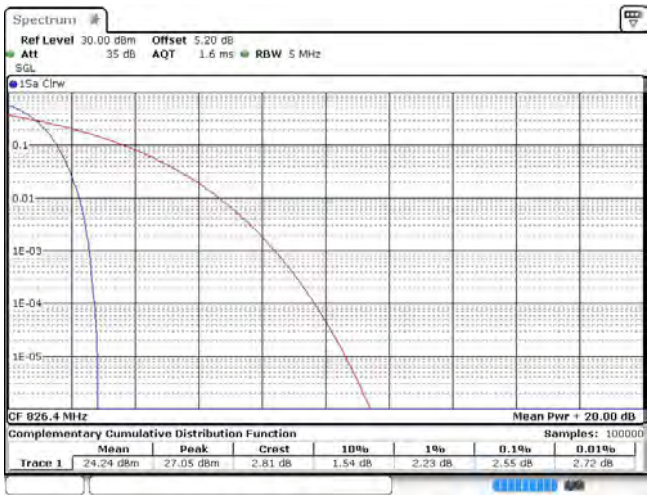

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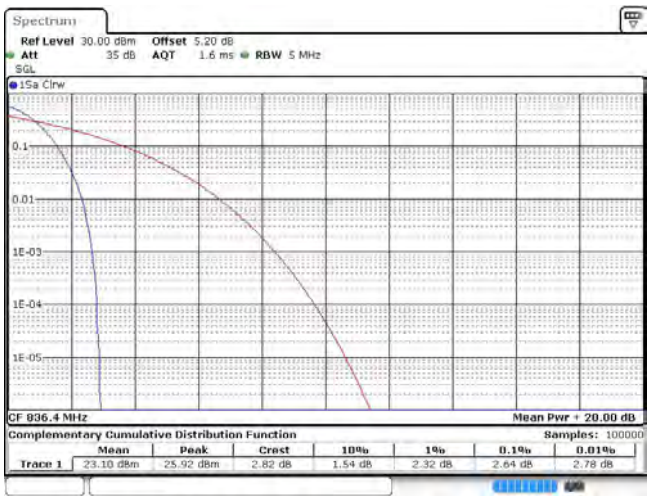
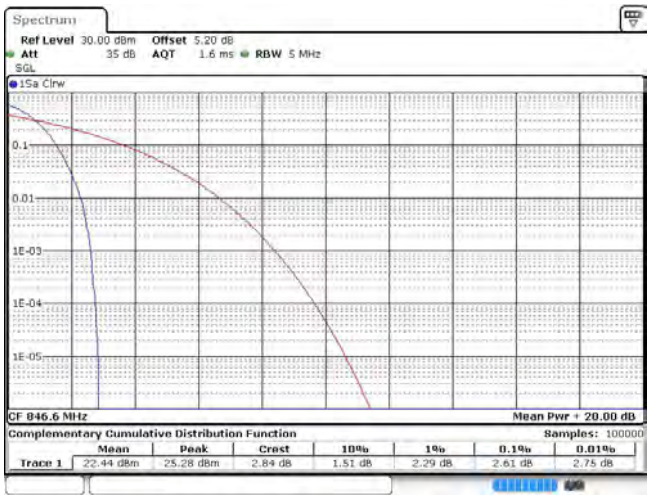


Band V_4182



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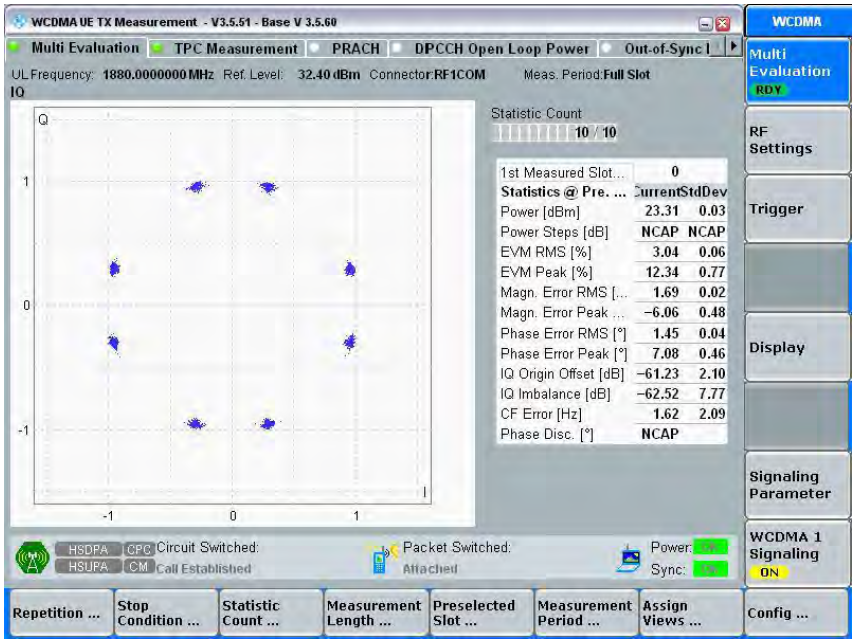
3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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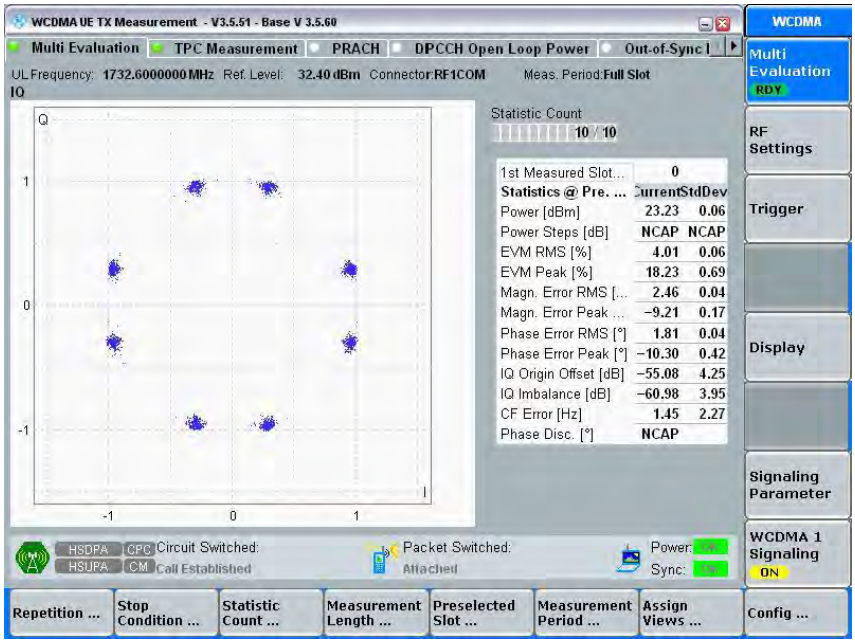
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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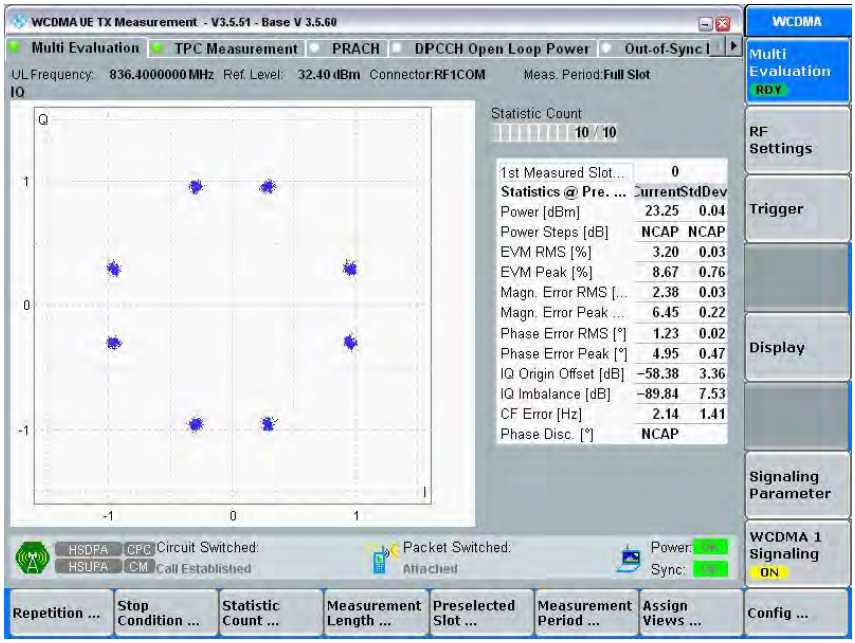
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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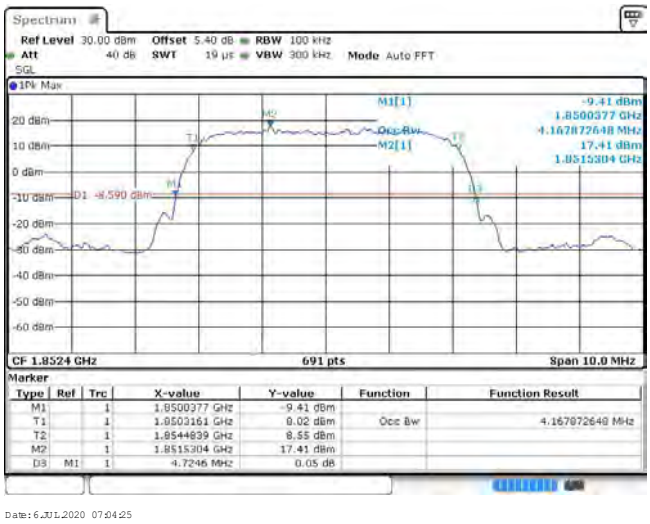
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4725	---	PASS
Band II	9400	4196.8	4739	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4167.9	4739	---	PASS
Band IV	1413	4167.9	4725	---	PASS
Band IV	1513	4182.3	4754	---	PASS
Band V	4132	4167.9	4768	---	PASS
Band V	4182	4153.4	4754	---	PASS
Band V	4233	4167.9	4754	---	PASS

4.2. Test Plots



Band II_9262

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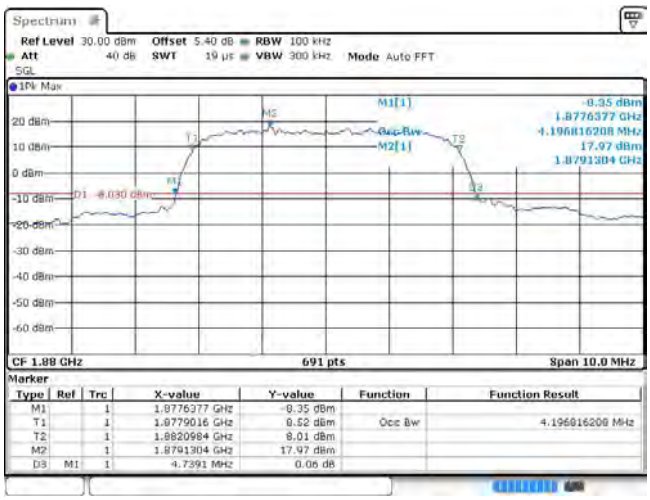
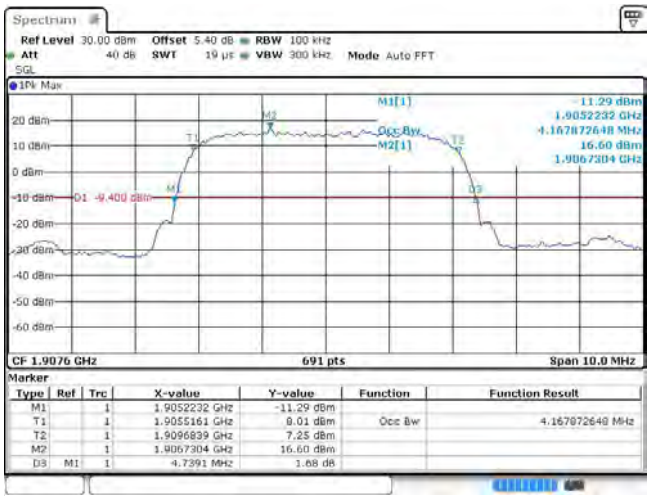


Band II_9400



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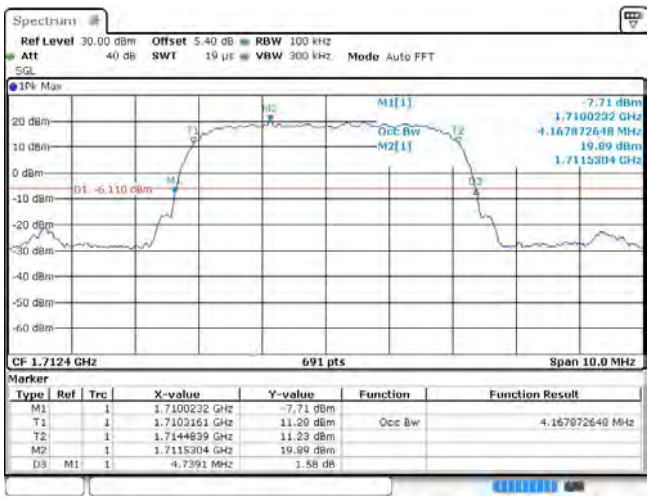
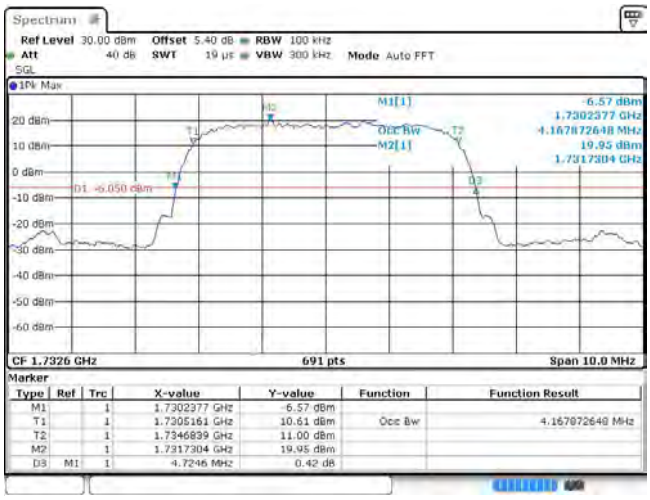


Band IV_1312



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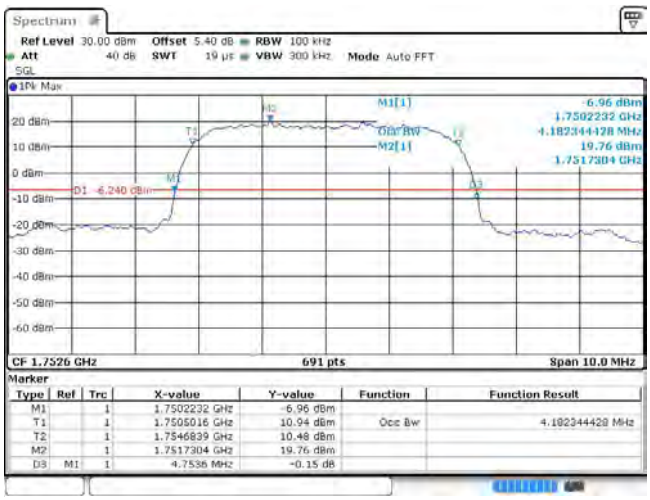
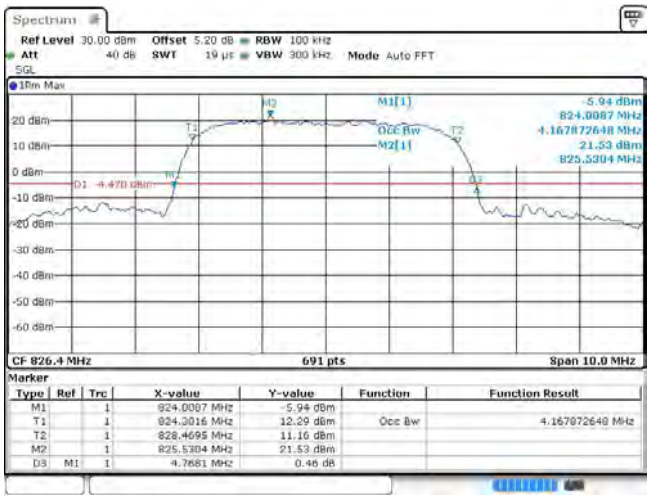


Band IV_1513



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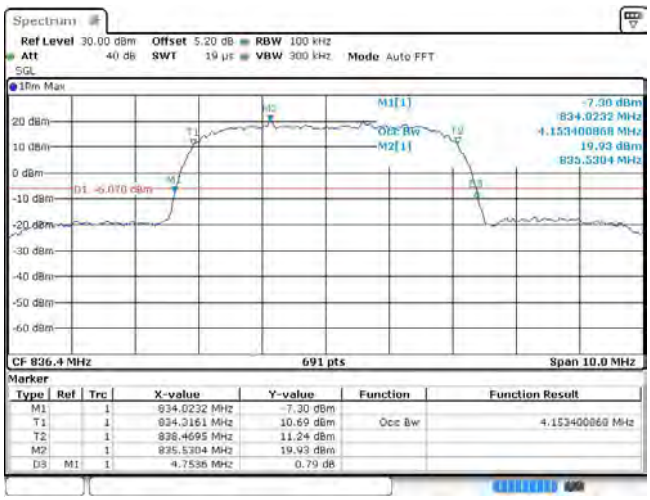
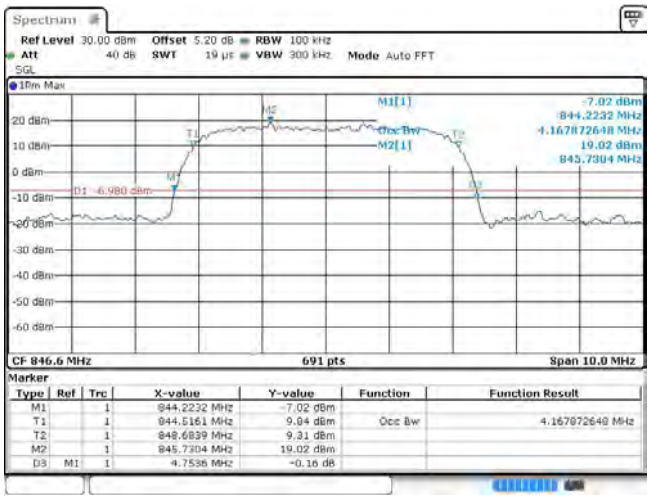


Band V_4182



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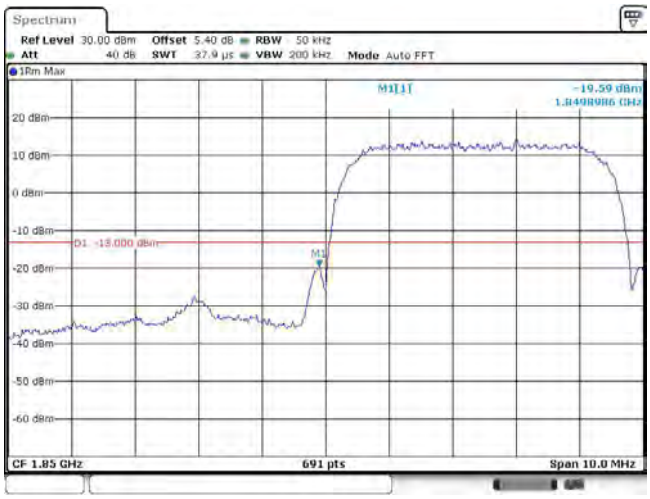
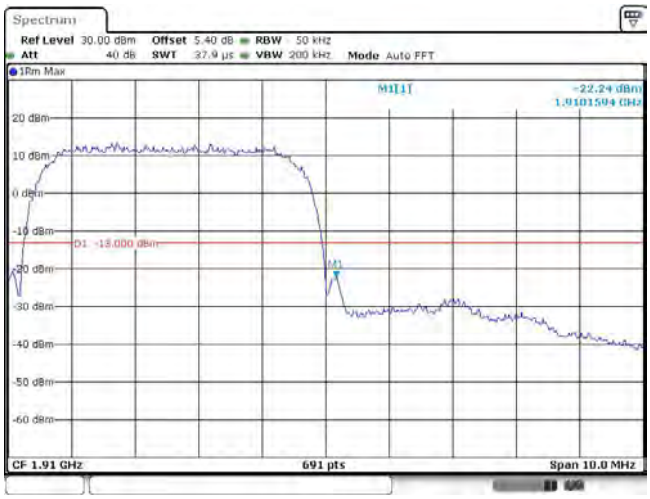
5. Band Edge Compliance

5.1. Test Plots



Band II_9262



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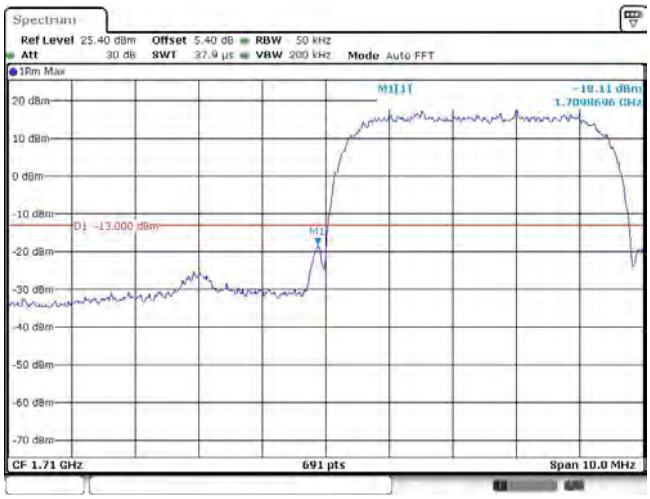
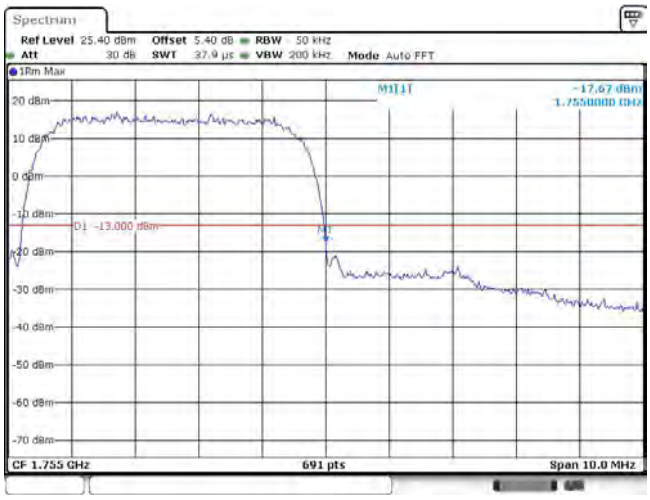


Band IV_1312



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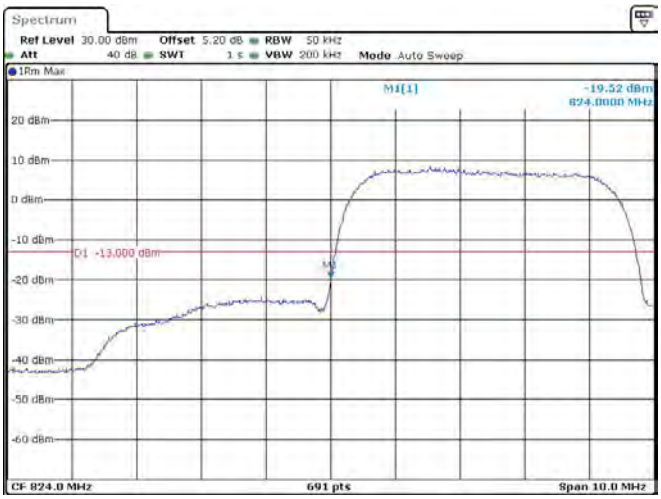
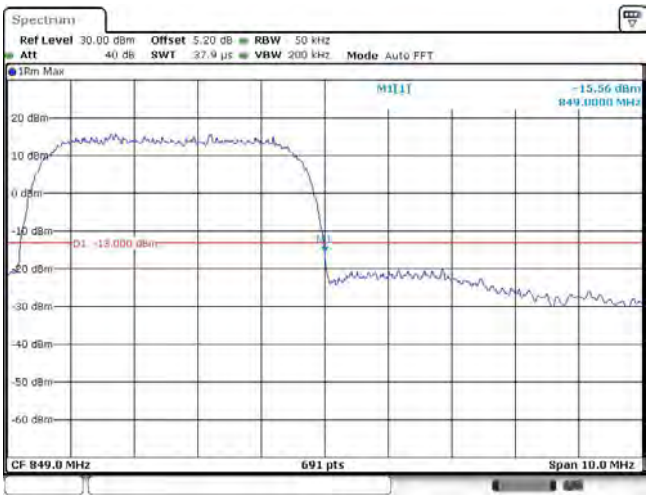


Band V_4132



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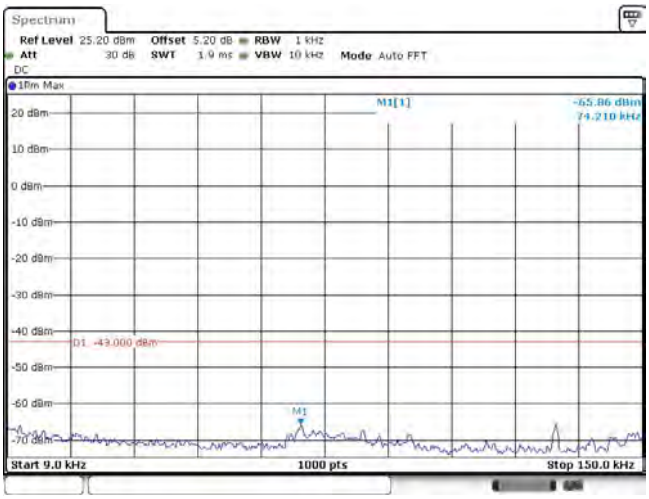
6. Spurious Emission at Antenna Terminal

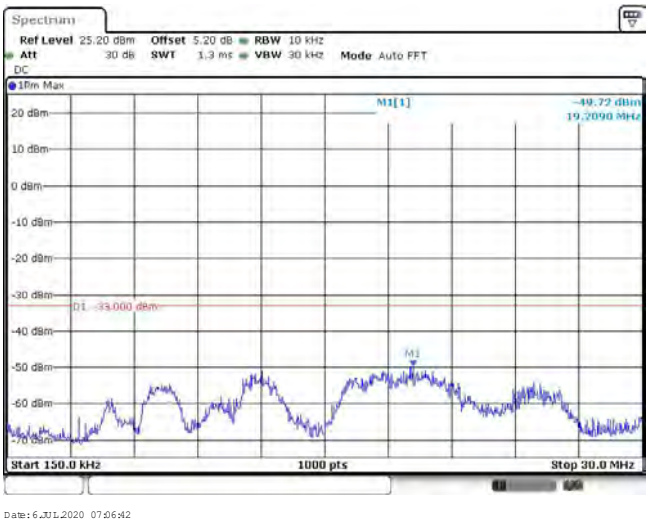
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k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



Band II_9262



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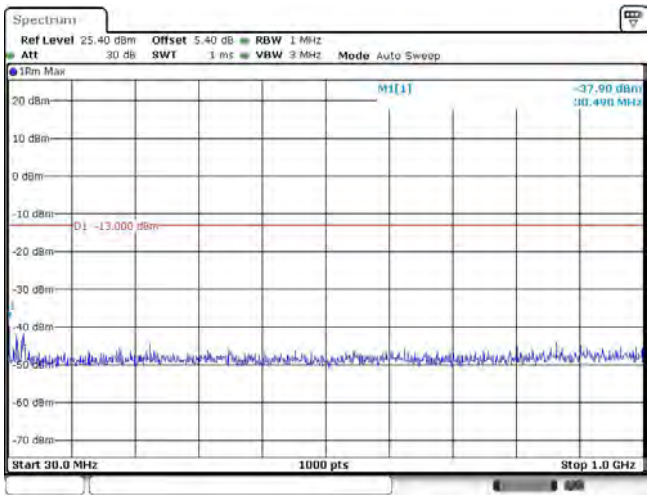
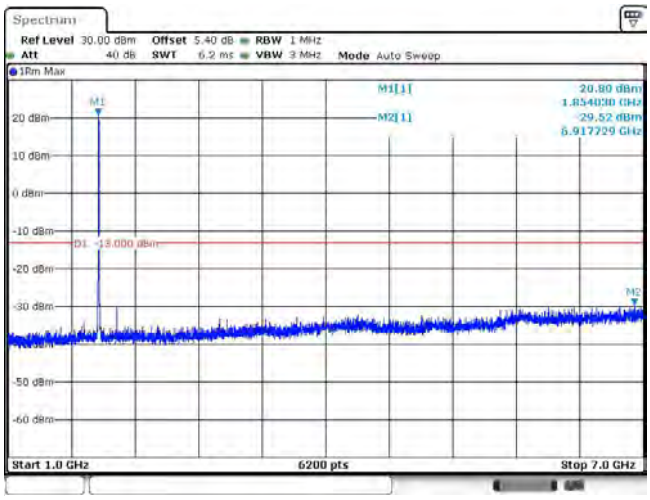


Band II_9262



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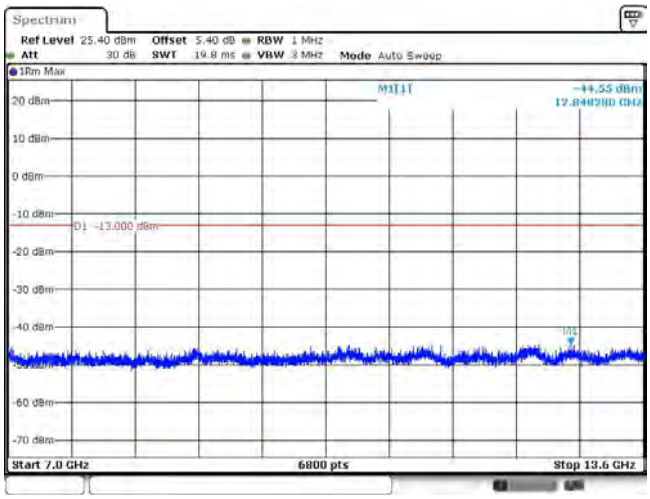

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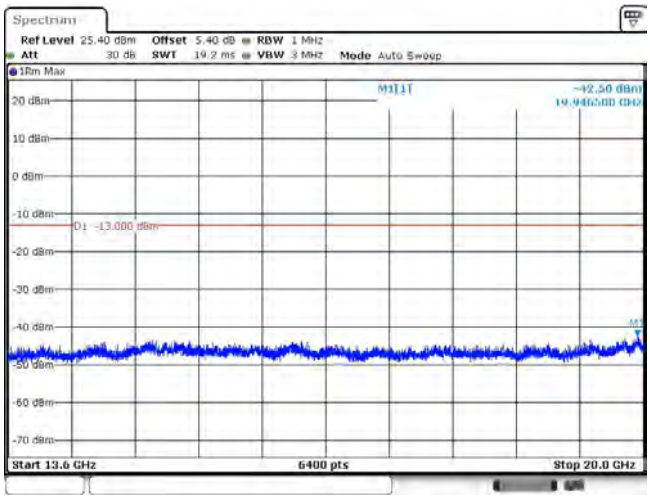

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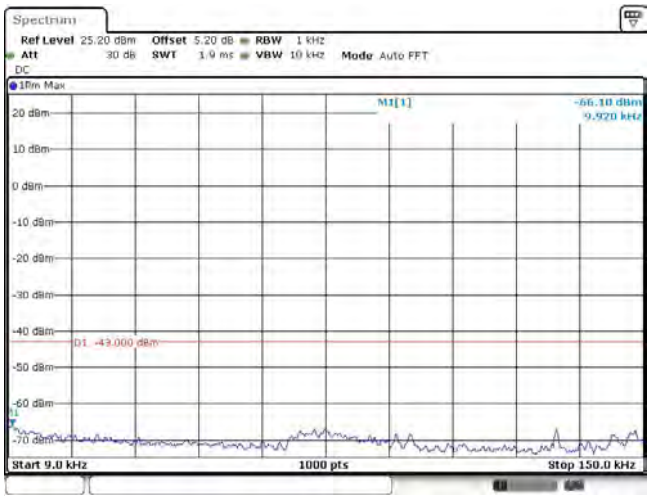

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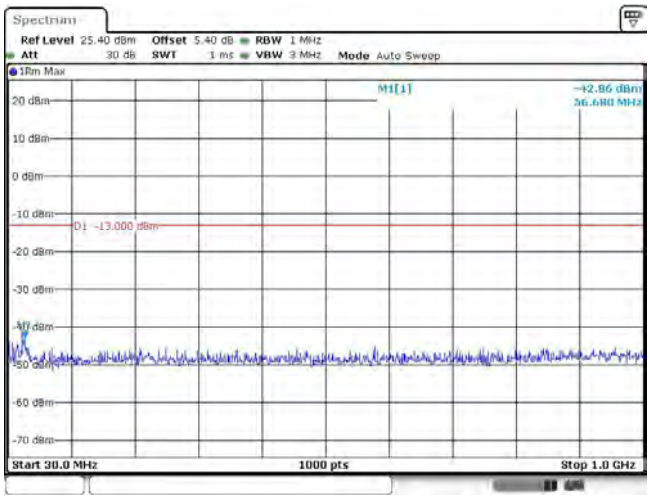

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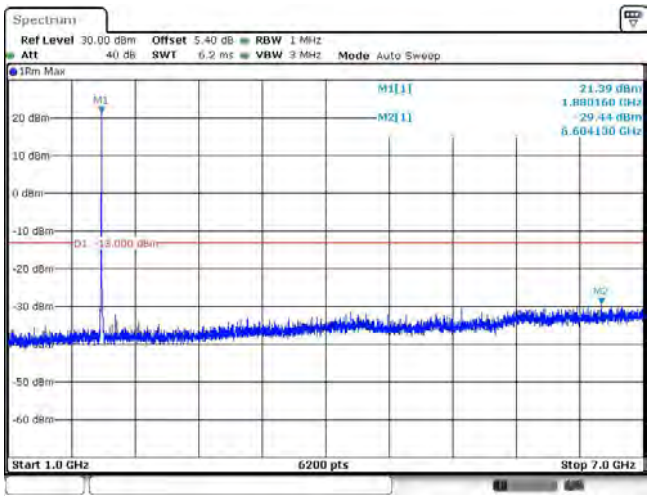

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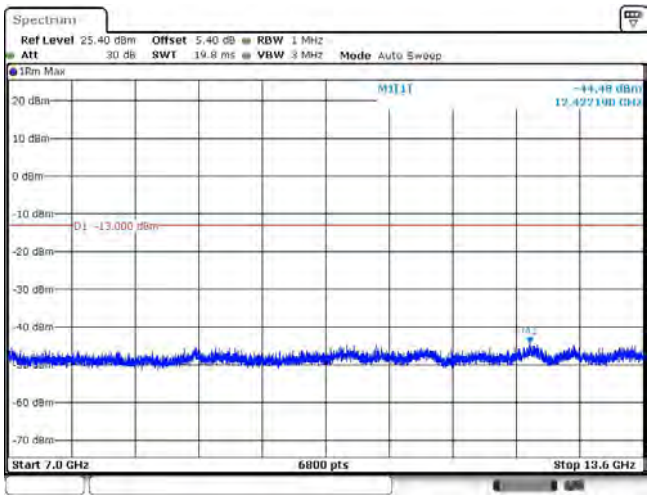

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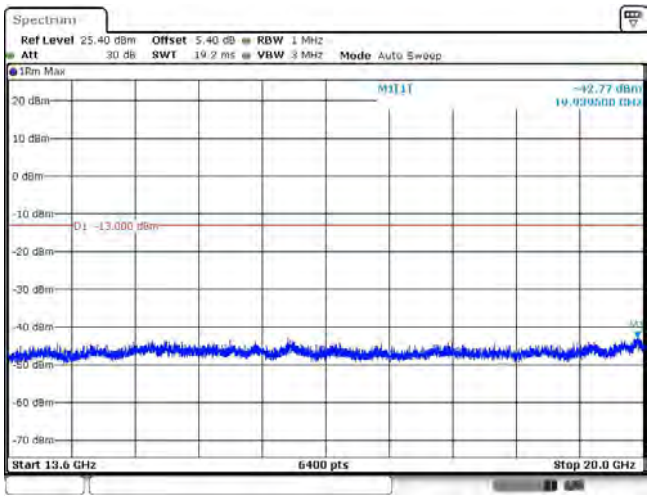

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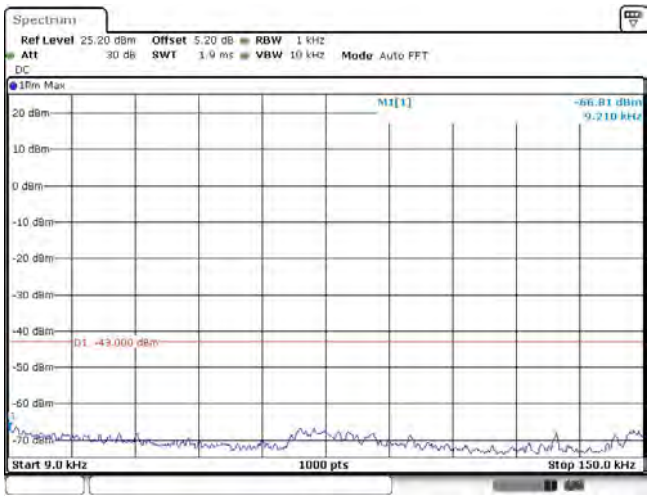

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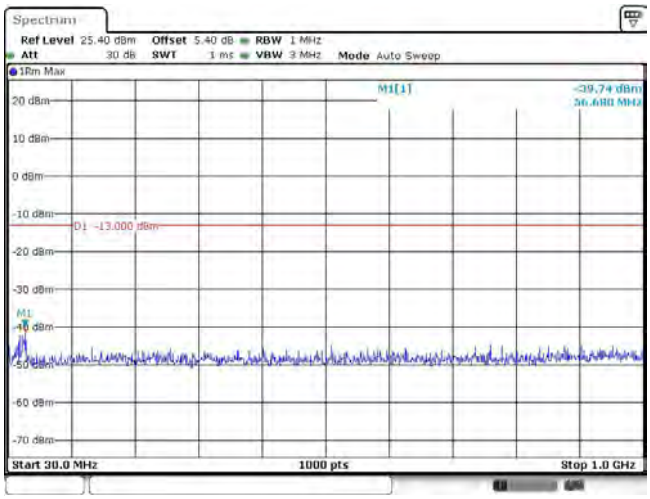

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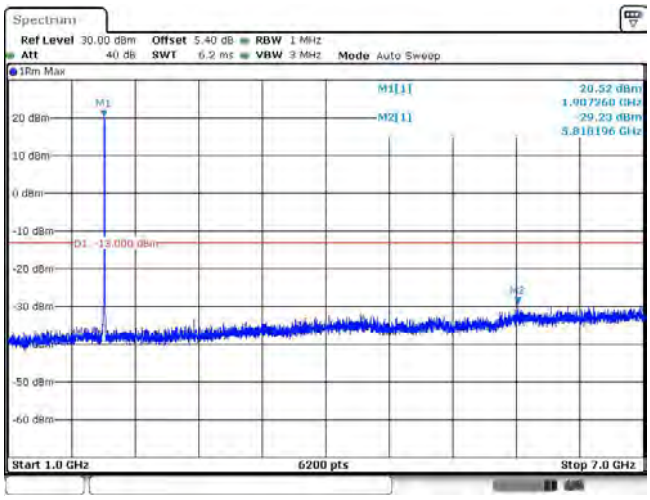

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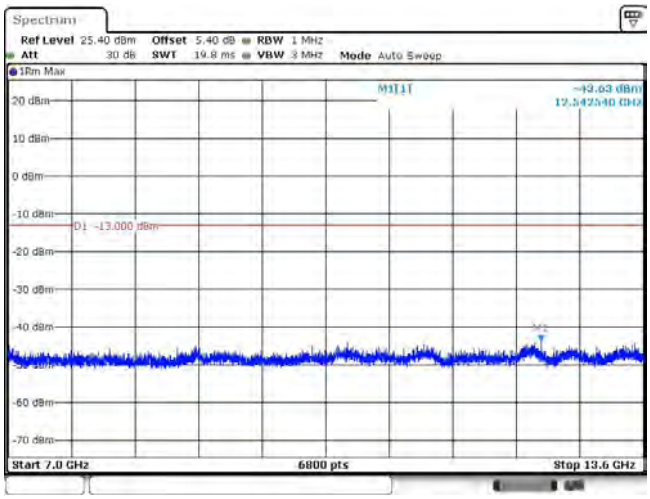

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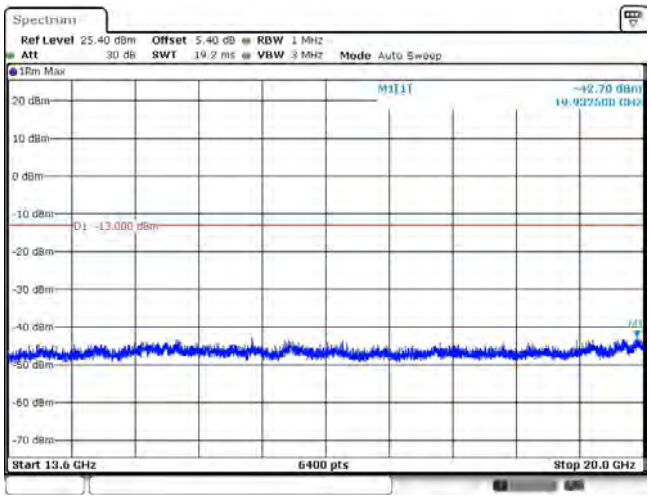

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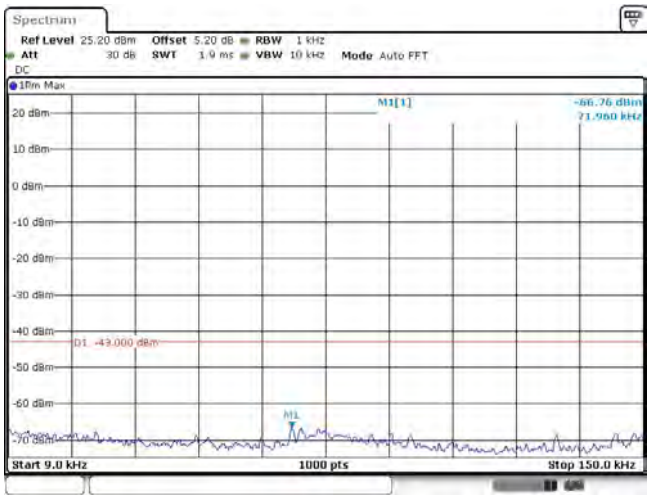

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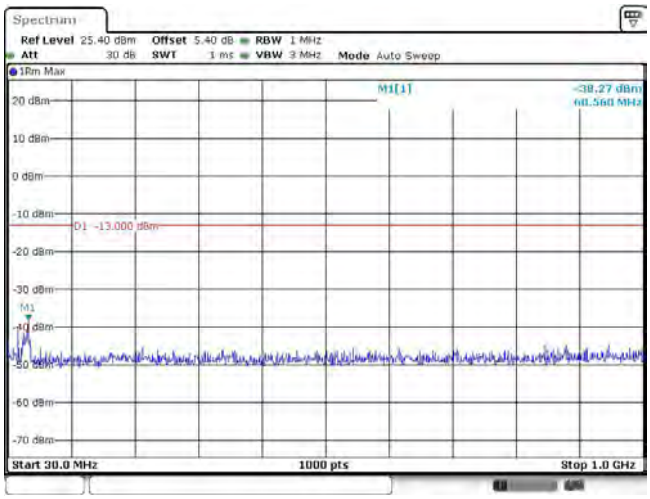

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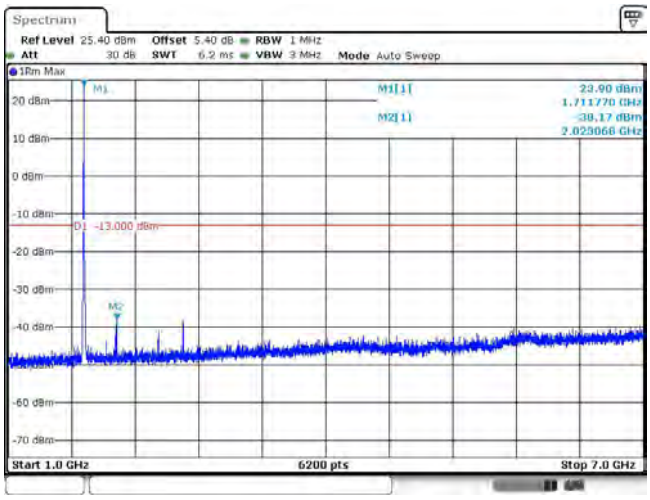

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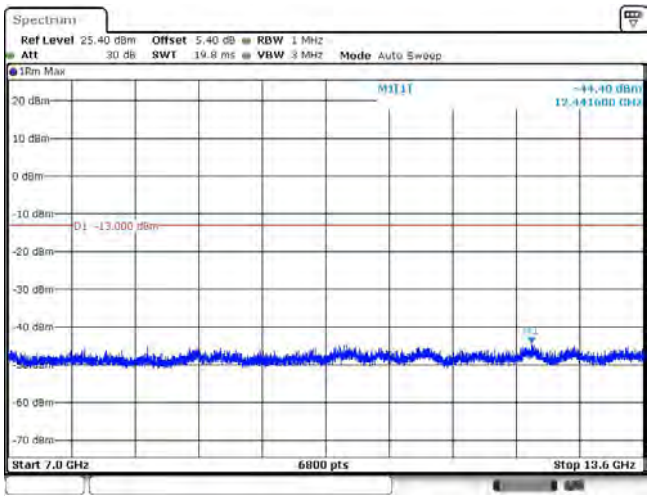

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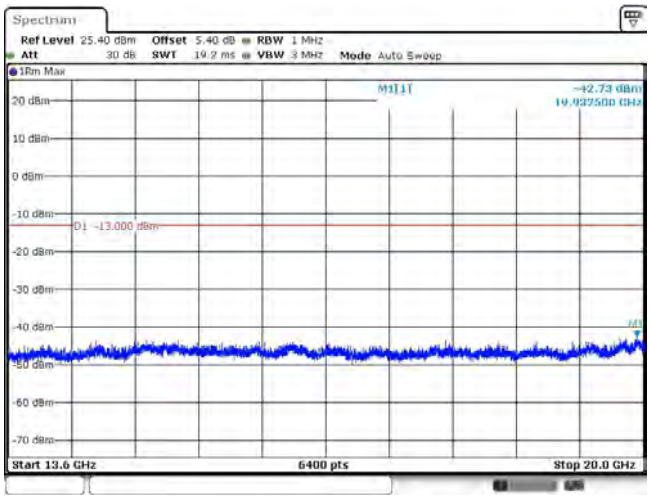

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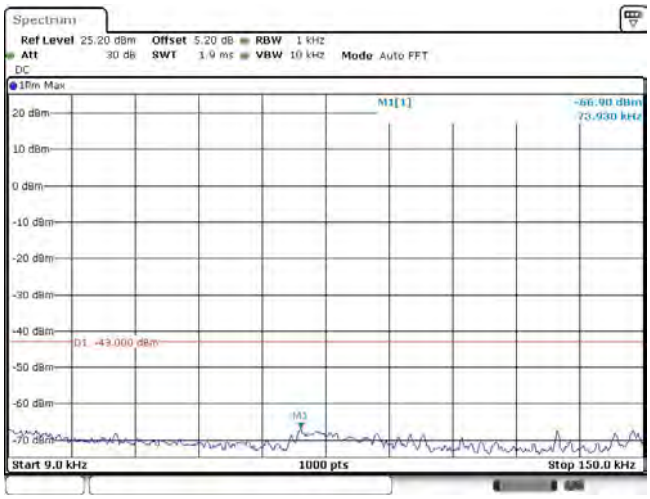

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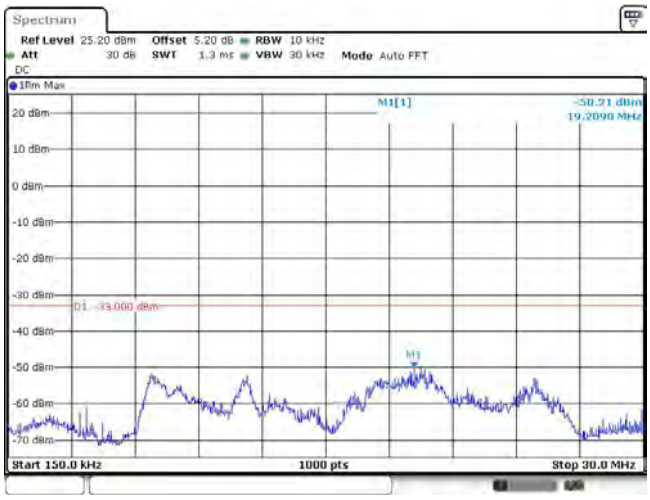

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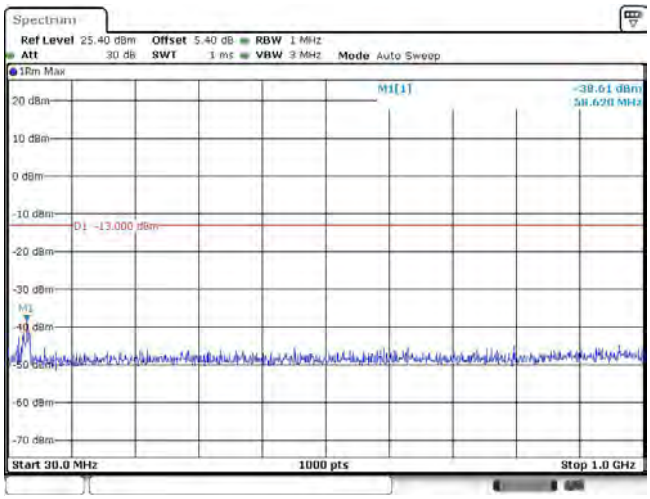

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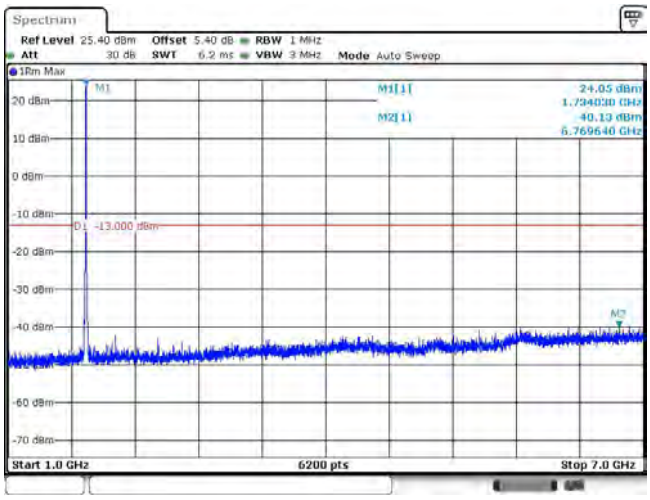

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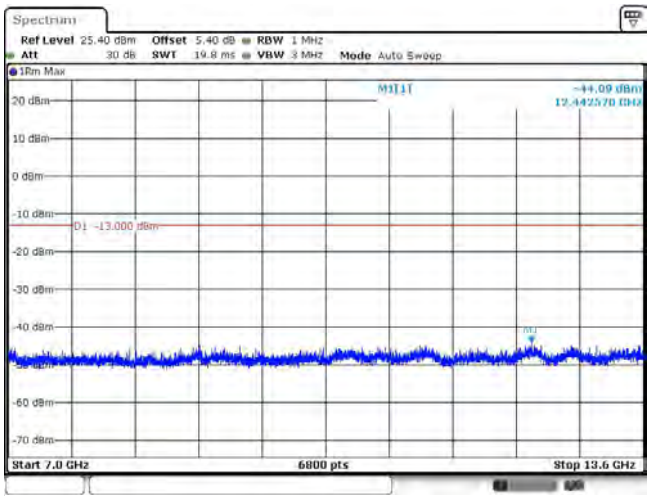

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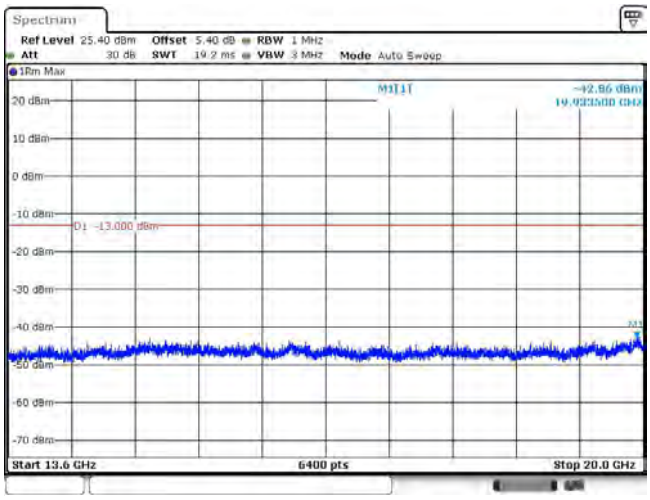

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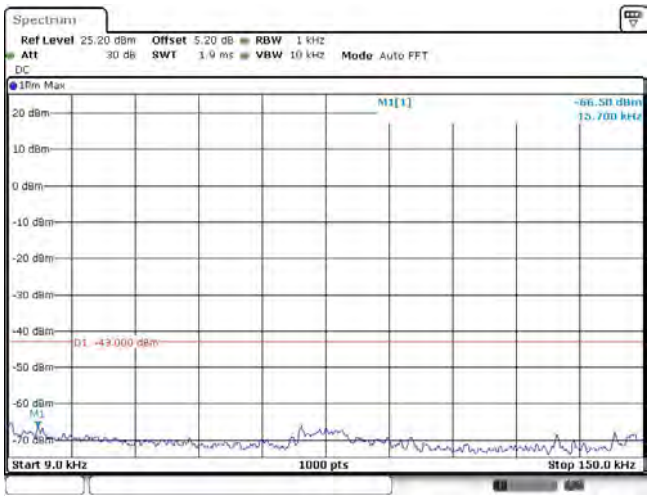

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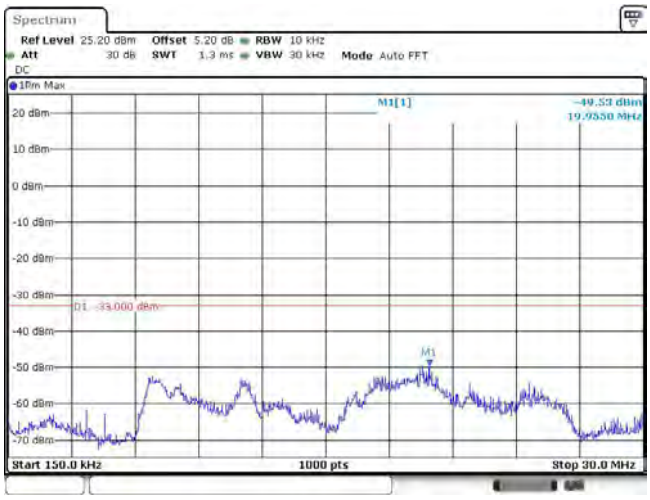

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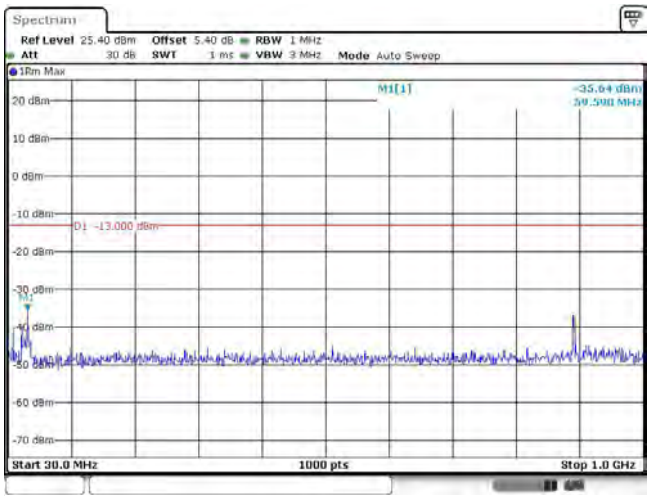

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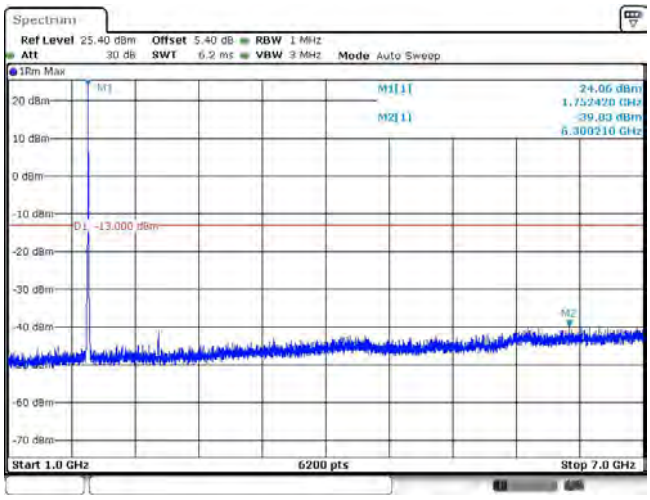

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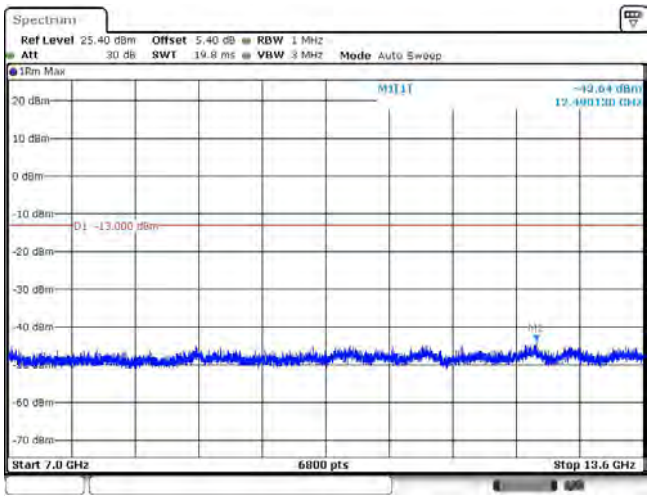

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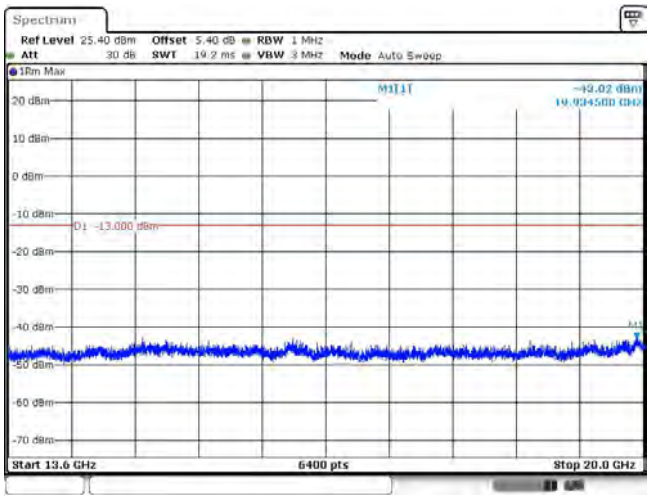

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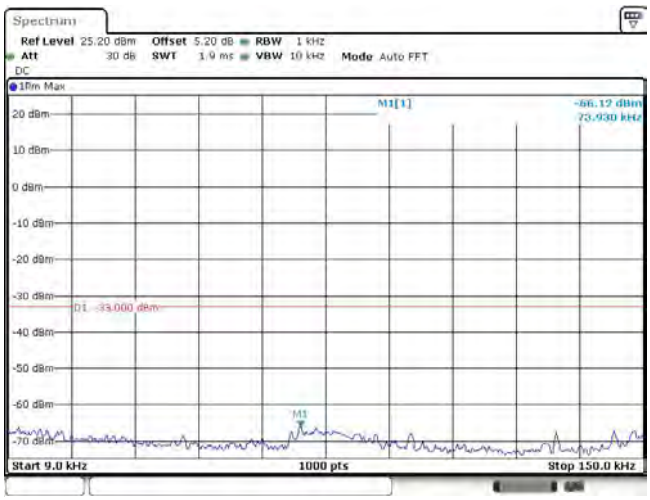

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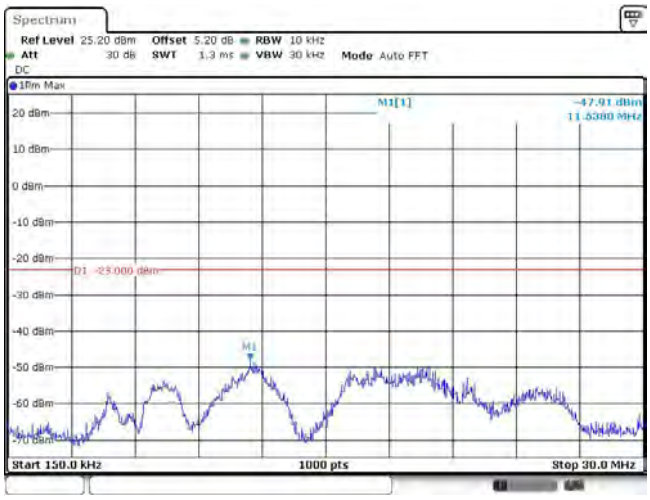

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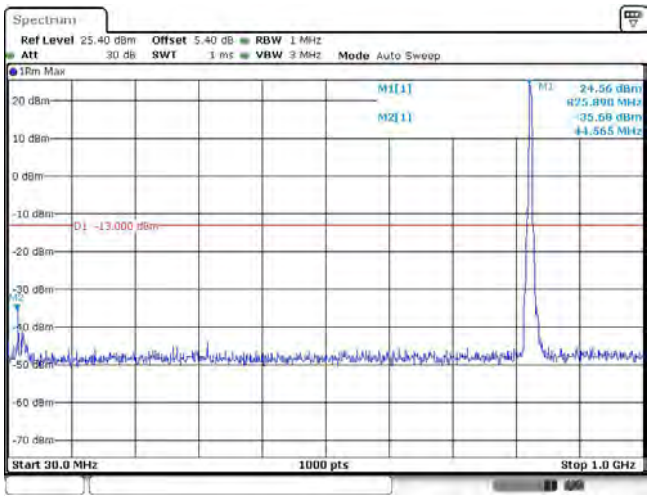

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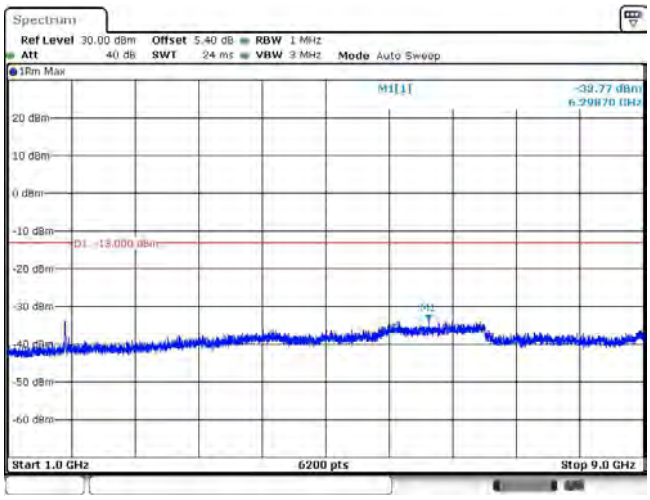

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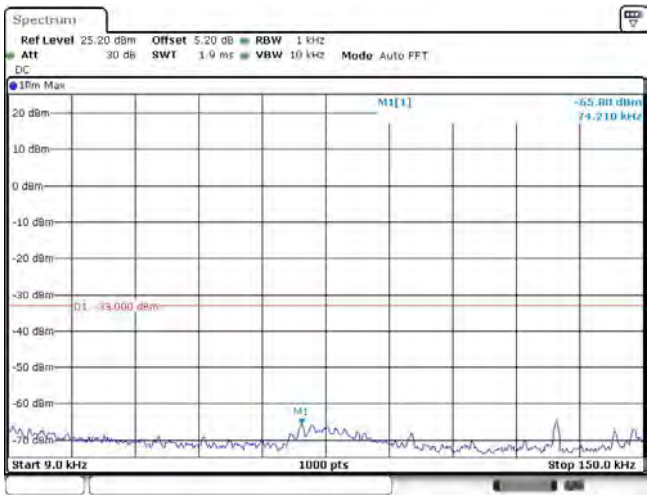

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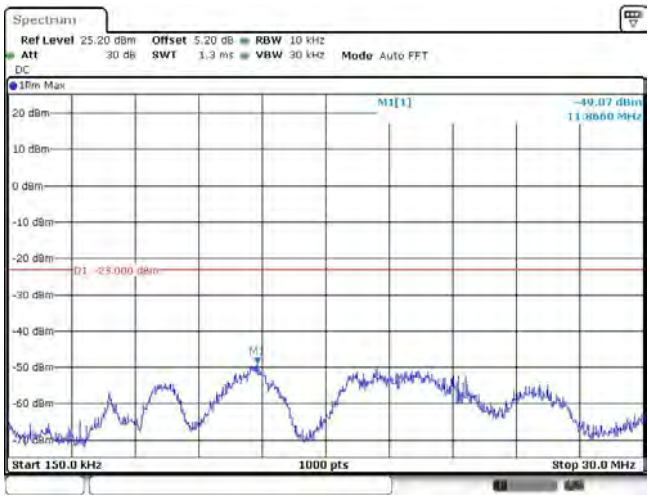

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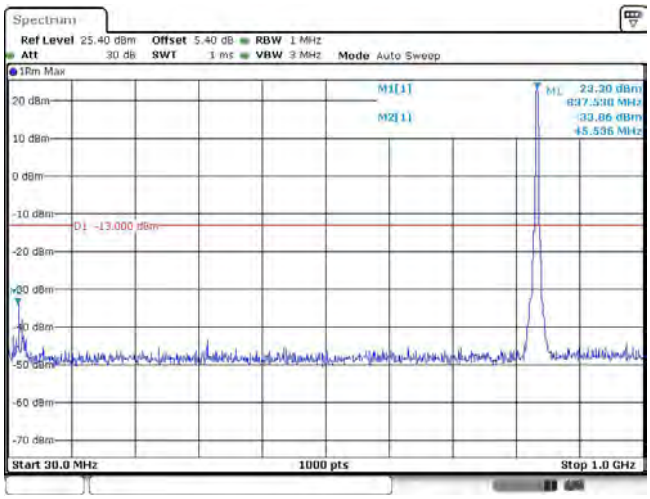

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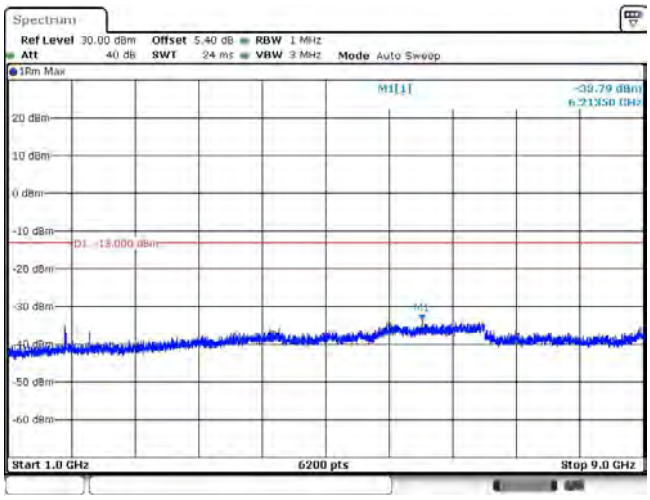

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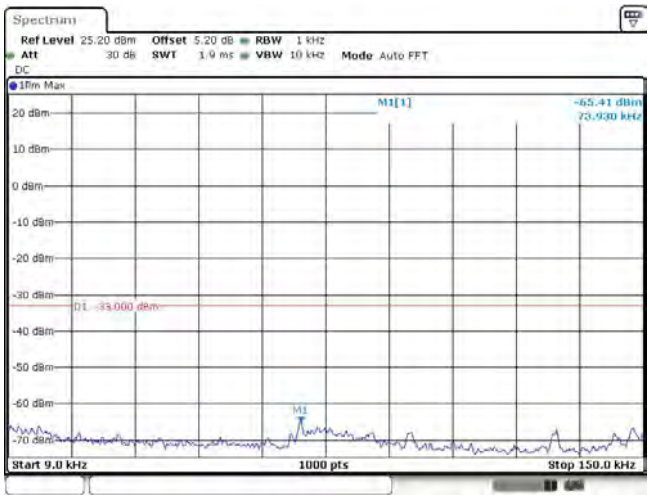

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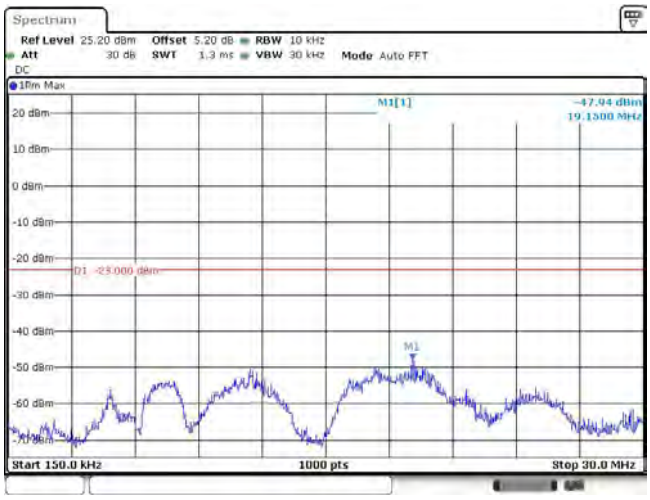

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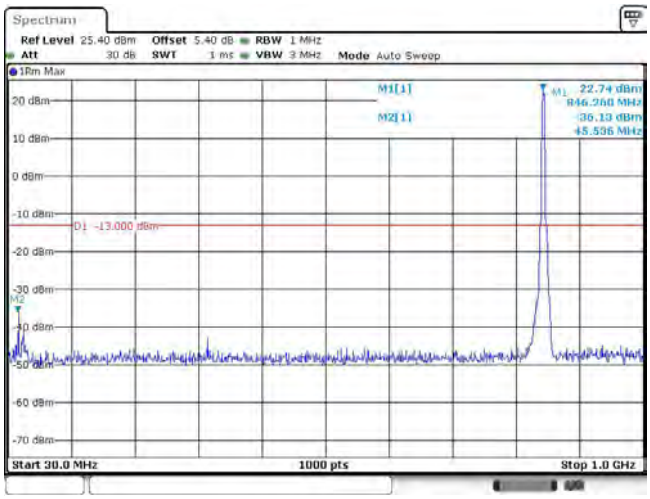

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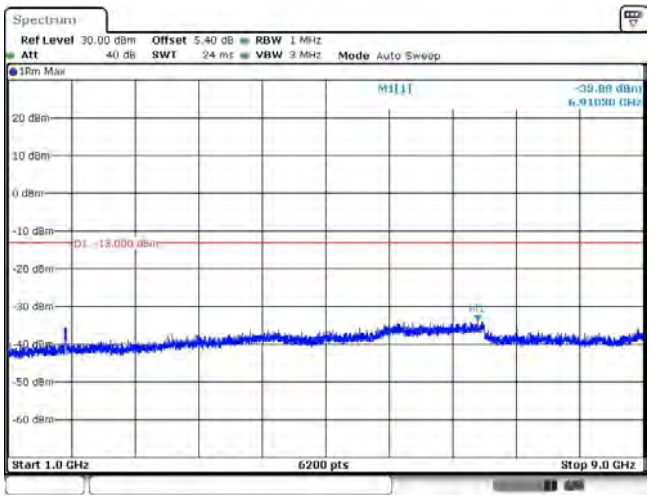

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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM_850

7.1.1. Test Channel = 128

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.0286	-70.27	-63.40	-13.00	50.40	216	131	Horizontal
2	238.6089	-69.95	-67.15	-13.00	54.15	264	195	Horizontal
3	547.2784	-70.47	-64.14	-13.00	51.14	185	4	Horizontal
4	1648.1296	-44.61	-40.55	-13.00	27.55	320	129	Horizontal
5	3296.5099	-45.52	-55.77	-13.00	42.77	247	67	Horizontal
6	16394.4465	-57.52	-43.17	-13.00	30.17	249	99	Horizontal

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7.2. Test Band = GSM_850

7.2.1. Test Channel = 128

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.6410	-70.47	-64.14	-13.00	51.14	258	4	Vertical
2	294.6777	-70.10	-68.62	-13.00	55.62	296	99	Vertical
3	1648.1296	-49.70	-45.03	-13.00	32.03	174	117	Vertical
4	2472.6945	-53.52	-44.12	-13.00	31.12	156	179	Vertical
5	3296.5099	-46.29	-57.51	-13.00	44.51	321	228	Vertical
6	17995.4999	-57.24	-39.47	-13.00	26.47	261	99	Vertical

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7.3. Test Band = GSM_850

7.3.1. Test Channel = 190

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.7148	-70.10	-63.49	-13.00	50.49	158	131	Horizontal
2	613.6782	-70.25	-62.55	-13.00	49.55	174	163	Horizontal
3	1673.3347	-49.02	-45.21	-13.00	32.21	196	182	Horizontal
4	2509.9020	-57.02	-45.76	-13.00	32.76	231	342	Horizontal
5	3346.5116	-47.19	-57.48	-13.00	44.48	261	36	Horizontal
6	16397.4466	-56.21	-41.81	-13.00	28.81	151	259	Horizontal

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7.4. Test Band = GSM_850

7.4.1. Test Channel = 190

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	111.1931	-70.64	-64.33	-13.00	51.33	258	68	Vertical
2	1673.3347	-54.34	-49.58	-13.00	36.58	296	132	Vertical
3	2509.9020	-59.08	-49.50	-13.00	36.50	174	89	Vertical
4	3346.0115	-48.57	-59.92	-13.00	46.92	153	163	Vertical
5	14486.8829	-59.67	-47.27	-13.00	34.27	231	99	Vertical
6	17997.4999	-57.07	-39.25	-13.00	26.25	156	163	Vertical

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7.5. Test Band = GSM_850

7.5.1. Test Channel = 251

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.1185	-70.33	-63.86	-13.00	50.86	158	132	Horizontal
2	1697.7395	-45.46	-41.89	-13.00	28.89	196	203	Horizontal
3	2546.7093	-58.42	-47.62	-13.00	34.62	174	353	Horizontal
4	3395.0132	-49.39	-59.66	-13.00	46.66	321	37	Horizontal
5	16400.4467	-56.93	-42.49	-13.00	29.49	261	196	Horizontal
6	17997.9999	-57.45	-44.36	-13.00	31.36	154	357	Horizontal

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7.6. Test Band = GSM_850

7.6.1. Test Channel = 251

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.1075	-71.10	-64.90	-13.00	51.90	158	355	Vertical
2	1697.3395	-54.13	-49.29	-13.00	36.29	196	132	Vertical
3	2546.3093	-57.79	-48.12	-13.00	35.12	174	140	Vertical
4	3395.5132	-48.99	-60.43	-13.00	47.43	321	259	Vertical
5	14517.8839	-59.73	-47.38	-13.00	34.38	262	291	Vertical
6	17996.9999	-57.18	-39.38	-13.00	26.38	151	131	Vertical

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7.7. Test Band = GSM_1900

7.7.1. Test Channel = 512

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.1142	-70.77	-63.80	-13.00	50.80	187	67	Horizontal
2	587.9234	-71.74	-64.40	-13.00	51.40	213	35	Horizontal
3	2695.5391	-69.16	-36.36	-13.00	23.36	251	241	Horizontal
4	3701.0234	-44.28	-52.85	-13.00	39.85	196	228	Horizontal
5	5550.5850	-44.98	-51.12	-13.00	38.12	321	228	Horizontal
6	16389.4463	-57.57	-43.31	-13.00	30.31	154	132	Horizontal

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7.8. Test Band = GSM_1900

7.8.1. Test Channel = 512

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.3799	-71.09	-65.06	-13.00	52.06	158	355	Vertical
2	2697.9396	-69.16	-37.53	-13.00	24.53	196	162	Vertical
3	3700.5234	-41.14	-50.51	-13.00	37.51	231	258	Vertical
4	5550.5850	-45.10	-51.67	-13.00	38.67	261	355	Vertical
5	14715.8905	-59.03	-46.97	-13.00	33.97	174	67	Vertical
6	17995.9999	-57.63	-39.85	-13.00	26.85	151	131	Vertical

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7.9. Test Band = GSM_1900

7.9.1. Test Channel = 661

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.3681	-71.55	-64.67	-13.00	51.67	174	227	Horizontal
2	2694.7389	-69.13	-36.35	-13.00	23.35	185	335	Horizontal
3	3760.0253	-40.47	-48.87	-13.00	35.87	196	195	Horizontal
4	5640.0880	-43.20	-49.24	-13.00	36.24	251	354	Horizontal
5	16385.9462	-57.52	-43.32	-13.00	30.32	325	131	Horizontal
6	17994.9998	-57.15	-44.14	-13.00	31.14	154	131	Horizontal

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7.10. Test Band = GSM_1900

7.10.1. Test Channel = 661

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.8649	-70.54	-64.39	-13.00	51.39	258	4	Vertical
2	2708.7417	-69.26	-37.72	-13.00	24.72	296	351	Vertical
3	3760.0253	-38.00	-47.06	-13.00	34.06	274	99	Vertical
4	5640.0880	-43.93	-50.44	-13.00	37.44	159	352	Vertical
5	14476.3825	-59.23	-46.91	-13.00	33.91	162	321	Vertical
6	17995.9999	-57.42	-39.64	-13.00	26.64	261	130	Vertical

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7.11. Test Band = GSM_1900

7.11.1. Test Channel = 810

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.1741	-70.88	-64.01	-13.00	51.01	185	260	Horizontal
2	2575.9152	-66.25	-36.14	-13.00	23.14	321	70	Horizontal
3	3819.5273	-43.88	-52.11	-13.00	39.11	261	197	Horizontal
4	5729.0910	-38.59	-44.60	-13.00	31.60	194	165	Horizontal
5	16403.9468	-57.52	-43.17	-13.00	30.17	154	260	Horizontal
6	17993.4998	-57.25	-44.27	-13.00	31.27	132	356	Horizontal

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7.12. Test Band = GSM_1900

7.12.1. Test Channel = 810

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	112.2601	-71.30	-65.09	-13.00	52.09	258	260	Vertical
2	2707.5415	-69.17	-37.61	-13.00	24.61	274	11	Vertical
3	3819.5273	-39.58	-48.40	-13.00	35.40	225	101	Vertical
4	5729.5910	-42.01	-48.67	-13.00	35.67	159	4	Vertical
5	14490.8830	-58.86	-46.42	-13.00	33.42	196	356	Vertical
6	17996.9999	-57.66	-39.86	-13.00	26.86	231	196	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 had been displayed.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	3.56	0.001922	±2.5	PASS
Band II	9262	VN	TN	-8.44	-0.004554	±2.5	PASS
Band II	9262	VH	TN	-0.02	-0.000012	±2.5	PASS
Band II	9400	VL	TN	-14.44	-0.007681	±2.5	PASS
Band II	9400	VN	TN	-0.58	-0.000310	±2.5	PASS
Band II	9400	VH	TN	10.03	0.005338	±2.5	PASS
Band II	9538	VL	TN	-11.53	-0.006042	±2.5	PASS
Band II	9538	VN	TN	-7.12	-0.003732	±2.5	PASS
Band II	9538	VH	TN	-12.92	-0.006772	±2.5	PASS
Band IV	1312	VL	TN	-12.33	-0.007203	±2.5	PASS
Band IV	1312	VN	TN	8.60	0.005021	±2.5	PASS
Band IV	1312	VH	TN	10.05	0.005867	±2.5	PASS
Band IV	1413	VL	TN	10.53	0.006077	±2.5	PASS
Band IV	1413	VN	TN	-10.71	-0.006180	±2.5	PASS
Band IV	1413	VH	TN	-8.36	-0.004827	±2.5	PASS
Band IV	1513	VL	TN	0.09	0.000052	±2.5	PASS
Band IV	1513	VN	TN	-3.38	-0.001929	±2.5	PASS
Band IV	1513	VH	TN	-5.06	-0.002885	±2.5	PASS
Band V	4132	VL	TN	9.84	0.011905	±2.5	PASS
Band V	4132	VN	TN	-5.21	-0.006301	±2.5	PASS
Band V	4132	VH	TN	-7.63	-0.009237	±2.5	PASS
Band V	4182	VL	TN	0.40	0.000478	±2.5	PASS
Band V	4182	VN	TN	-1.05	-0.001259	±2.5	PASS
Band V	4182	VH	TN	-14.01	-0.016752	±2.5	PASS
Band V	4233	VL	TN	-3.64	-0.004298	±2.5	PASS
Band V	4233	VN	TN	-11.44	-0.013516	±2.5	PASS
Band V	4233	VH	TN	-6.26	-0.007395	±2.5	PASS

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8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	2.36	0.001274	±2.5	PASS
Band II	9262	VN	-20	8.57	0.004626	±2.5	PASS
Band II	9262	VN	-10	-4.70	-0.002535	±2.5	PASS
Band II	9262	VN	0	10.48	0.005657	±2.5	PASS
Band II	9262	VN	10	-8.69	-0.004694	±2.5	PASS
Band II	9262	VN	20	-2.15	-0.001160	±2.5	PASS
Band II	9262	VN	30	-4.85	-0.002617	±2.5	PASS
Band II	9262	VN	40	-11.40	-0.006152	±2.5	PASS
Band II	9262	VN	50	-1.86	-0.001003	±2.5	PASS
Band II	9400	VN	-30	1.02	0.000542	±2.5	PASS
Band II	9400	VN	-20	13.48	0.007168	±2.5	PASS
Band II	9400	VN	-10	6.25	0.003323	±2.5	PASS
Band II	9400	VN	0	0.55	0.000292	±2.5	PASS
Band II	9400	VN	10	-13.47	-0.007167	±2.5	PASS
Band II	9400	VN	20	-5.27	-0.002805	±2.5	PASS
Band II	9400	VN	30	10.29	0.005476	±2.5	PASS
Band II	9400	VN	40	-12.26	-0.006520	±2.5	PASS
Band II	9400	VN	50	6.50	0.003459	±2.5	PASS
Band II	9538	VN	-30	5.74	0.003011	±2.5	PASS
Band II	9538	VN	-20	-7.43	-0.003897	±2.5	PASS
Band II	9538	VN	-10	-6.54	-0.003430	±2.5	PASS
Band II	9538	VN	0	13.75	0.007210	±2.5	PASS
Band II	9538	VN	10	11.01	0.005773	±2.5	PASS
Band II	9538	VN	20	9.73	0.005100	±2.5	PASS
Band II	9538	VN	30	-9.69	-0.005078	±2.5	PASS
Band II	9538	VN	40	12.65	0.006632	±2.5	PASS
Band II	9538	VN	50	-9.57	-0.005018	±2.5	PASS
Band IV	1312	VN	-30	11.98	0.006998	±2.5	PASS
Band IV	1312	VN	-20	-1.28	-0.000750	±2.5	PASS
Band IV	1312	VN	-10	13.07	0.007633	±2.5	PASS
Band IV	1312	VN	0	13.79	0.008053	±2.5	PASS

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Band IV	1312	VN	10	-6.92	-0.004039	±2.5	PASS
Band IV	1312	VN	20	1.68	0.000983	±2.5	PASS
Band IV	1312	VN	30	6.19	0.003613	±2.5	PASS
Band IV	1312	VN	40	6.18	0.003608	±2.5	PASS
Band IV	1312	VN	50	-0.42	-0.000248	±2.5	PASS
Band IV	1413	VN	-30	-1.05	-0.000605	±2.5	PASS
Band IV	1413	VN	-20	1.37	0.000791	±2.5	PASS
Band IV	1413	VN	-10	-11.90	-0.006869	±2.5	PASS
Band IV	1413	VN	0	7.54	0.004353	±2.5	PASS
Band IV	1413	VN	10	-9.49	-0.005477	±2.5	PASS
Band IV	1413	VN	20	8.59	0.004957	±2.5	PASS
Band IV	1413	VN	30	-4.26	-0.002461	±2.5	PASS
Band IV	1413	VN	40	5.80	0.003346	±2.5	PASS
Band IV	1413	VN	50	-1.67	-0.000964	±2.5	PASS
Band IV	1513	VN	-30	-7.60	-0.004335	±2.5	PASS
Band IV	1513	VN	-20	-12.72	-0.007256	±2.5	PASS
Band IV	1513	VN	-10	-13.45	-0.007675	±2.5	PASS
Band IV	1513	VN	0	-5.89	-0.003361	±2.5	PASS
Band IV	1513	VN	10	7.47	0.004263	±2.5	PASS
Band IV	1513	VN	20	14.06	0.008024	±2.5	PASS
Band IV	1513	VN	30	4.73	0.002696	±2.5	PASS
Band IV	1513	VN	40	10.90	0.006217	±2.5	PASS
Band IV	1513	VN	50	5.00	0.002851	±2.5	PASS
Band V	4132	VN	-30	-13.74	-0.016623	±2.5	PASS
Band V	4132	VN	-20	-8.69	-0.010521	±2.5	PASS
Band V	4132	VN	-10	8.33	0.010074	±2.5	PASS
Band V	4132	VN	0	10.46	0.012659	±2.5	PASS
Band V	4132	VN	10	11.97	0.014488	±2.5	PASS
Band V	4132	VN	20	-11.62	-0.014065	±2.5	PASS
Band V	4132	VN	30	-10.10	-0.012216	±2.5	PASS
Band V	4132	VN	40	3.16	0.003827	±2.5	PASS
Band V	4132	VN	50	-10.61	-0.012833	±2.5	PASS
Band V	4182	VN	-30	10.82	0.012938	±2.5	PASS
Band V	4182	VN	-20	6.35	0.007587	±2.5	PASS
Band V	4182	VN	-10	4.03	0.004814	±2.5	PASS
Band V	4182	VN	0	14.74	0.017625	±2.5	PASS
Band V	4182	VN	10	13.66	0.016337	±2.5	PASS

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Band V	4182	VN	20	-6.42	-0.007670	±2.5	PASS
Band V	4182	VN	30	-12.07	-0.014426	±2.5	PASS
Band V	4182	VN	40	-8.41	-0.010050	±2.5	PASS
Band V	4182	VN	50	4.47	0.005339	±2.5	PASS
Band V	4233	VN	-30	-7.68	-0.009068	±2.5	PASS
Band V	4233	VN	-20	-11.54	-0.013636	±2.5	PASS
Band V	4233	VN	-10	11.42	0.013494	±2.5	PASS
Band V	4233	VN	0	-4.08	-0.004819	±2.5	PASS
Band V	4233	VN	10	12.47	0.014725	±2.5	PASS
Band V	4233	VN	20	-7.46	-0.008816	±2.5	PASS
Band V	4233	VN	30	-4.45	-0.005261	±2.5	PASS
Band V	4233	VN	40	6.97	0.008228	±2.5	PASS
Band V	4233	VN	50	1.84	0.002169	±2.5	PASS

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