Appendix B

WCDMA Band II & V

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CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER 4
1.1. TEST RESULT 4
2. PEAK-TO-AVERAGE RATIO(CCDF) 5
2.1. TEST RESULT 5
2.2. TEST PLOTS 5
3. MODULATION CHARACTERISTICS 9
3.1. TEST BAND = WCDMA BAND II 9
3.1.1. TEST MODE = UMTS/TM1 9
3.1.1.1. TEST CHANNEL = MCH 9
3.2. TEST BAND = WCDMA BAND V 10
3.2.1. TEST MODE = UMTS/TM1 10
3.2.1.1. TEST CHANNEL = MCH 10
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 11
4.1. TEST RESULT 11
4.2. TEST PLOTS 11
5. BAND EDGE COMPLIANCE 15
5.1. TEST PLOTS 15
6. SPURIOUS EMISSION AT ANTENNA TERMINAL 17
6.1. TEST PLOTS 17
7. FIELD STRENGTH OF SPURIOUS RADIATION 32
7.1. TEST BAND = WCDMA BAND II 32
7.1.1. TEST MODE =WCDMA/TM1 32
7.1.1.1. TEST CHANNEL = LCH 32
7.1.1.2. TEST CHANNEL = MCH 32
7.1.1.3. TEST CHANNEL = HCH 33
7.2. TEST BAND = WCDMA BAND V 33
7.2.1. TEST MODE =WCDMA/TM1 33
7.2.1.1. TEST CHANNEL = LCH 33

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7.2.1.2. TEST CHANNEL = MCH 34

7.2.1.3. TEST CHANNEL = HCH 34

8. FREQUENCY STABILITY 35

8.1. FREQUENCY VS VOLTAGE 35

8.2. FREQUENCY VS TEMPERATURE 35

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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	23.24	23.61	33.00	PASS
Band II	9400	23.25	23.62	33.00	PASS
Band II	9538	23.18	23.55	33.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.43	20.82	38.45	PASS
Band V	4182	23.61	21.00	38.45	PASS
Band V	4233	23.74	21.13	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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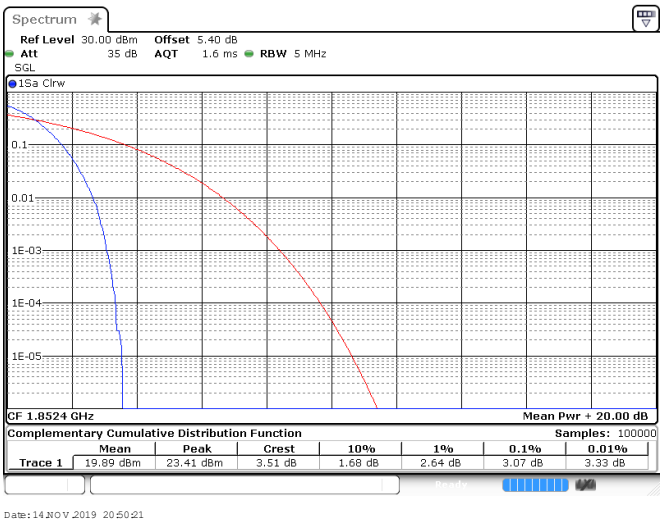
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.07	13	PASS
Band II	9400	3.07	13	PASS
Band II	9538	2.75	13	PASS
Band V	4132	3.04	13	PASS
Band V	4182	3.07	13	PASS
Band V	4233	2.90	13	PASS

2.2. Test Plots

Band II_9262



Band II_9400

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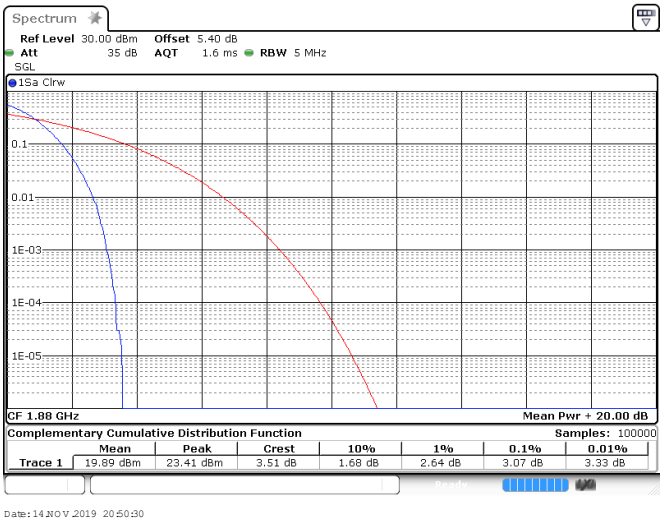
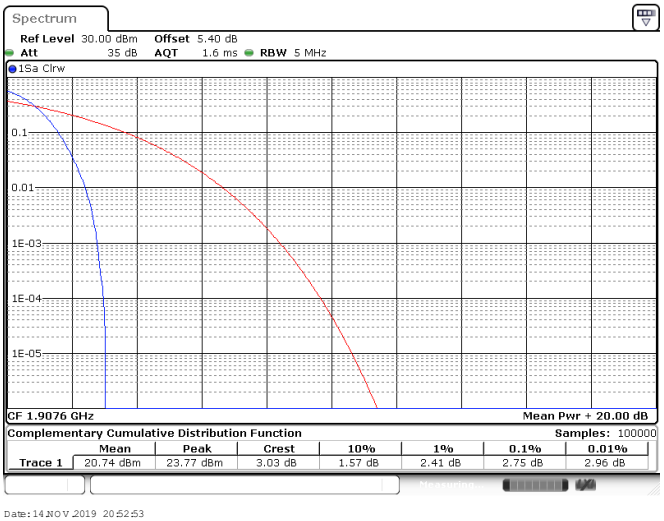


Band II_9538



Band V_4132

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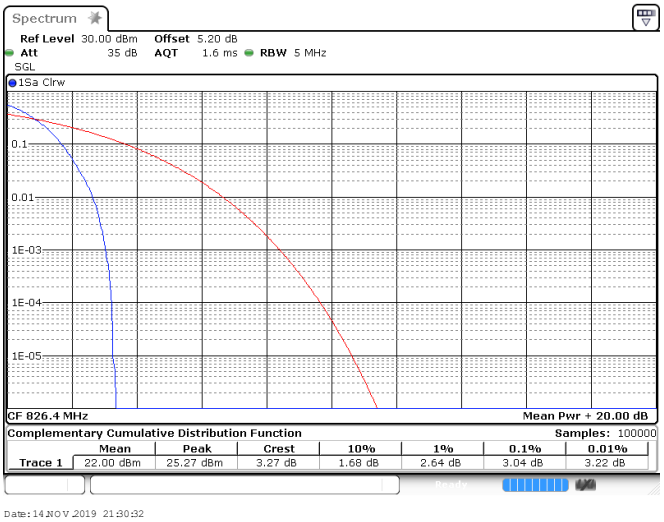
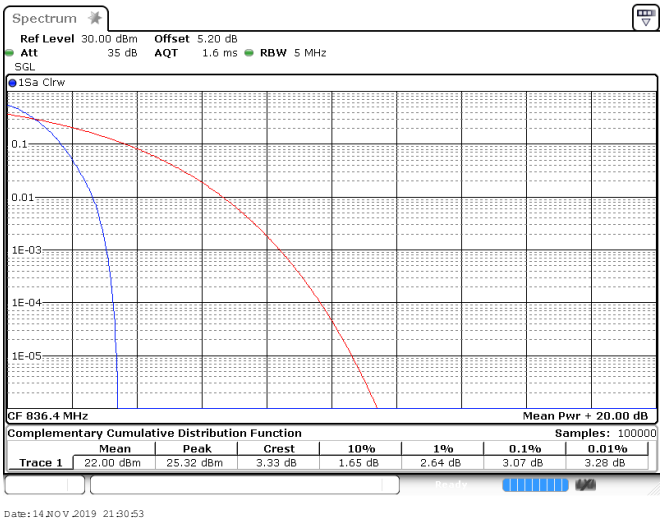


Band V_4182



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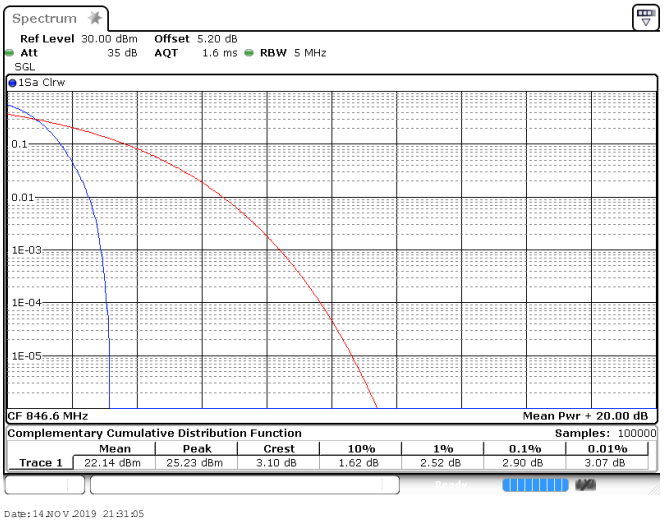

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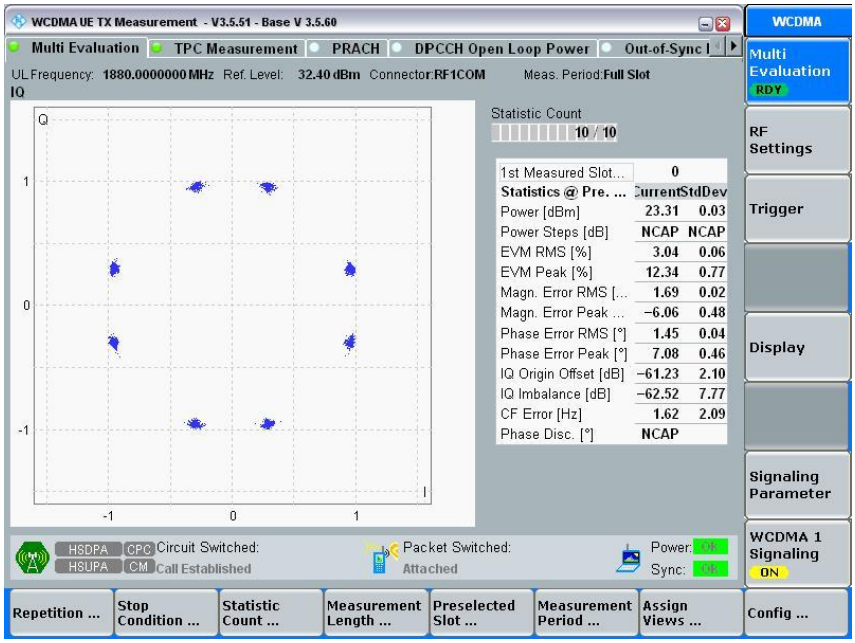
3. Modulation Characteristics

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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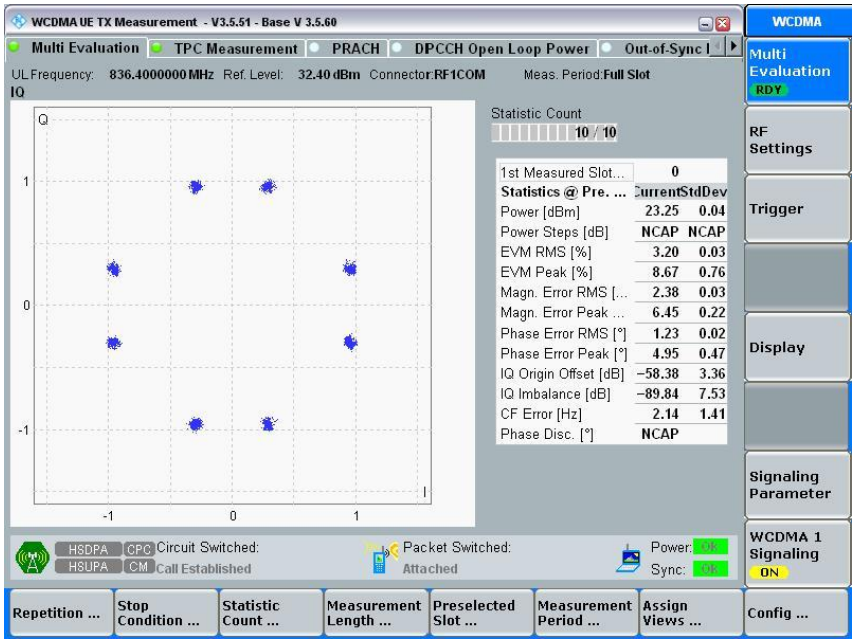
3.2. Test Band = WCDMA Band V

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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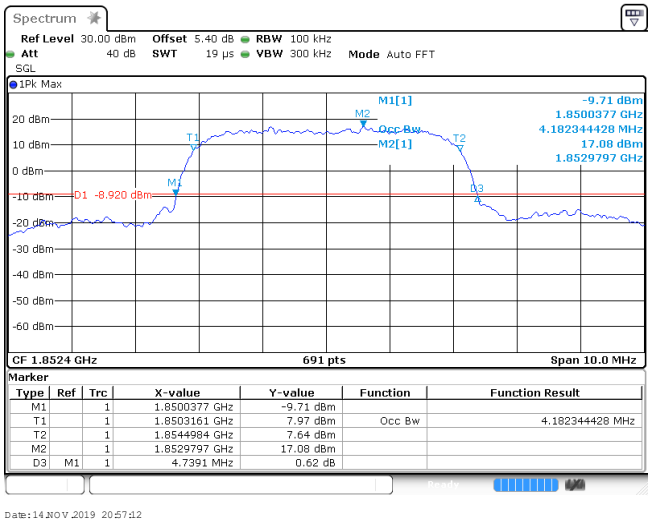
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

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

4.2. Test Plots



Band II_9262

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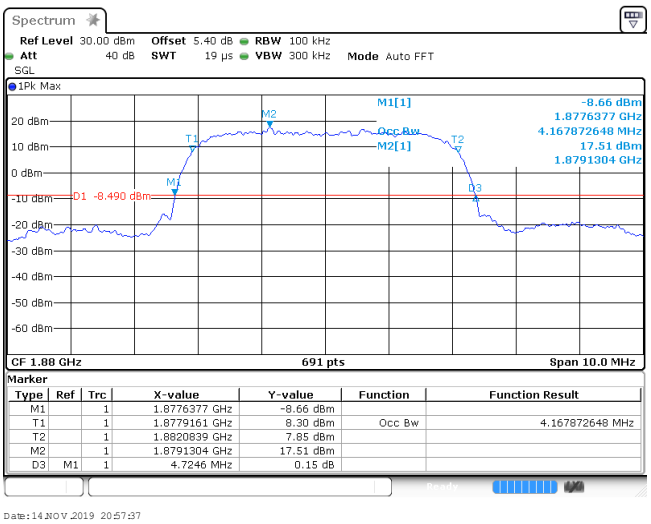
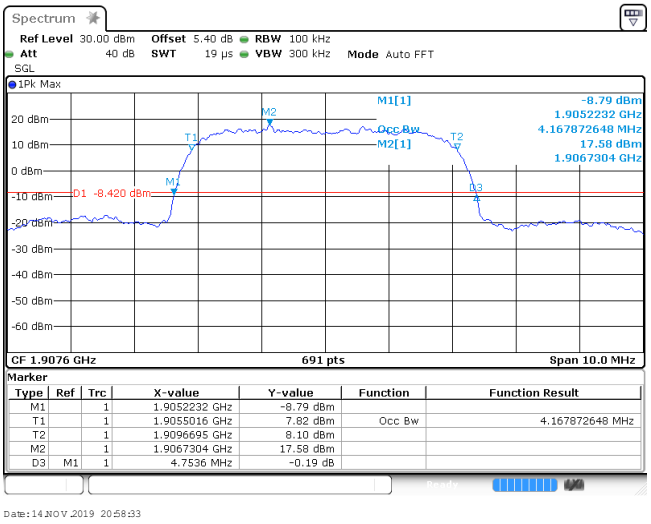


Band II_9400



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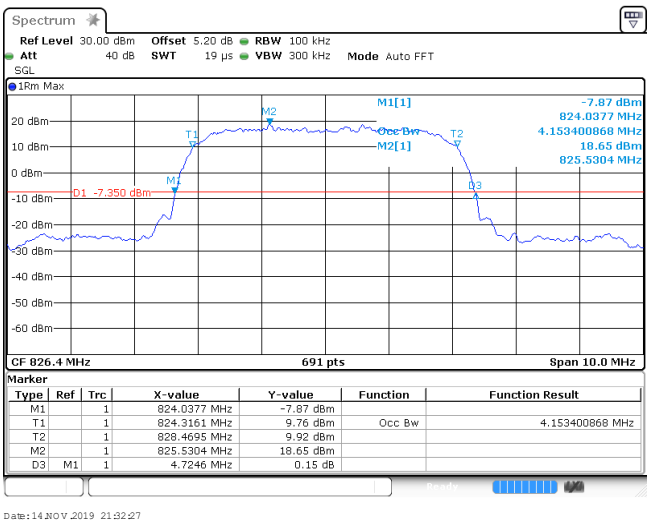

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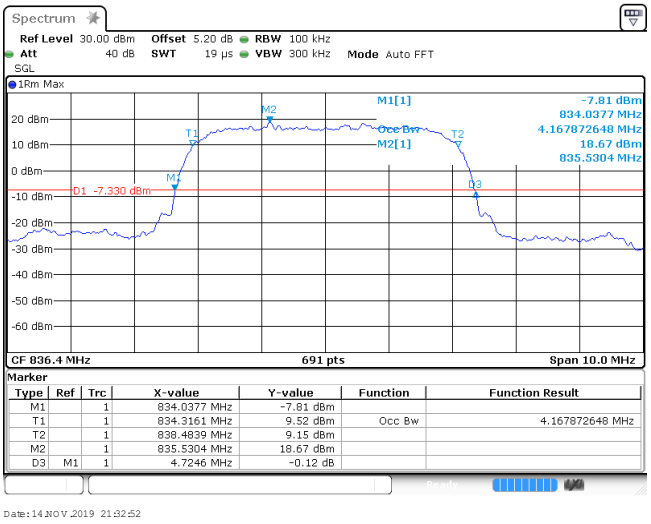

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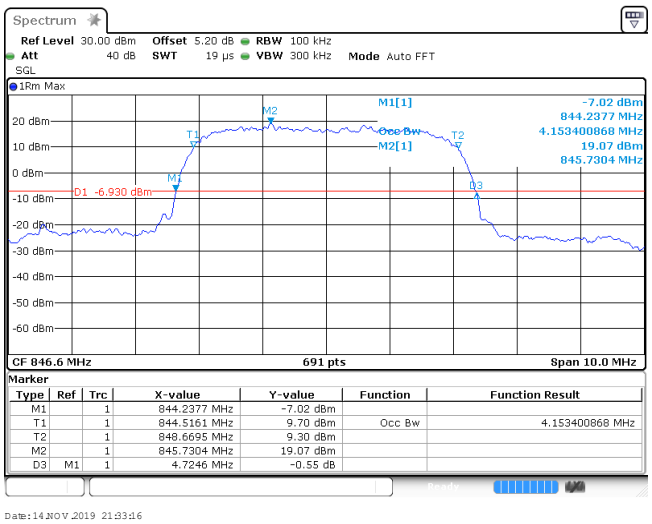

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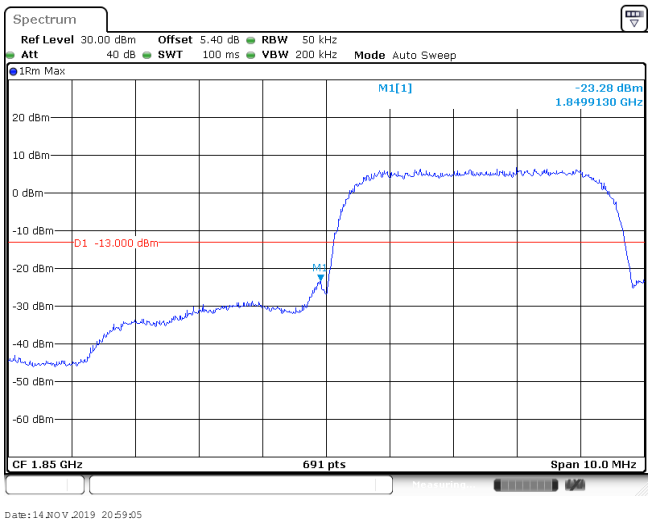
5. Band Edge Compliance

5.1. Test Plots



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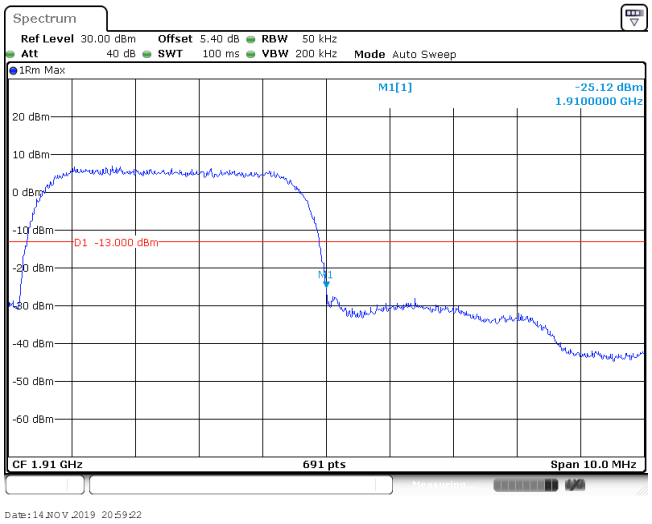

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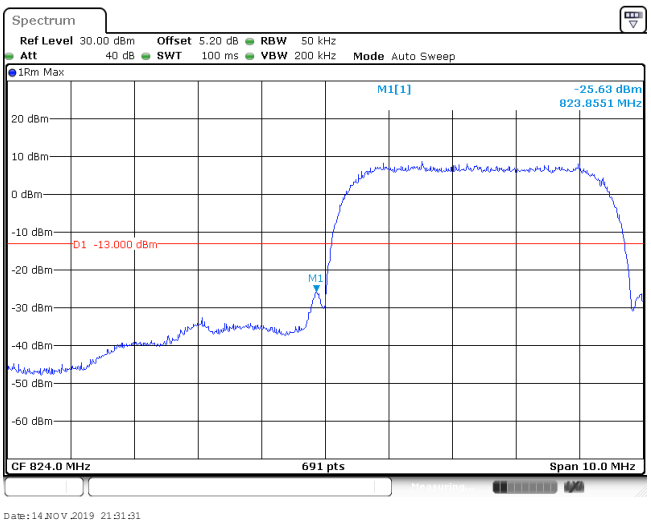

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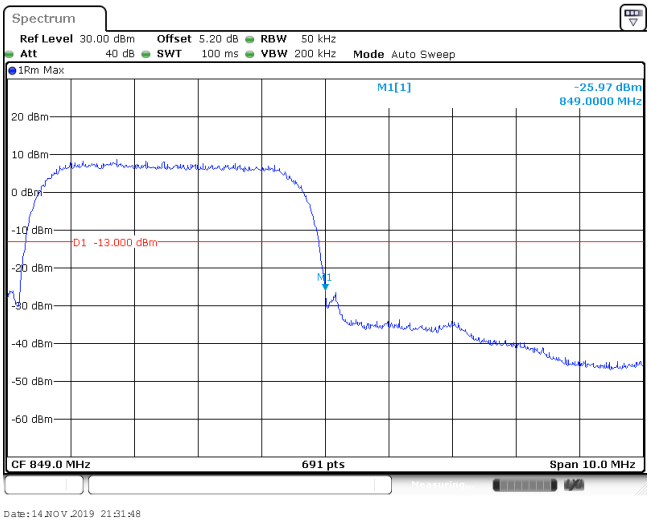

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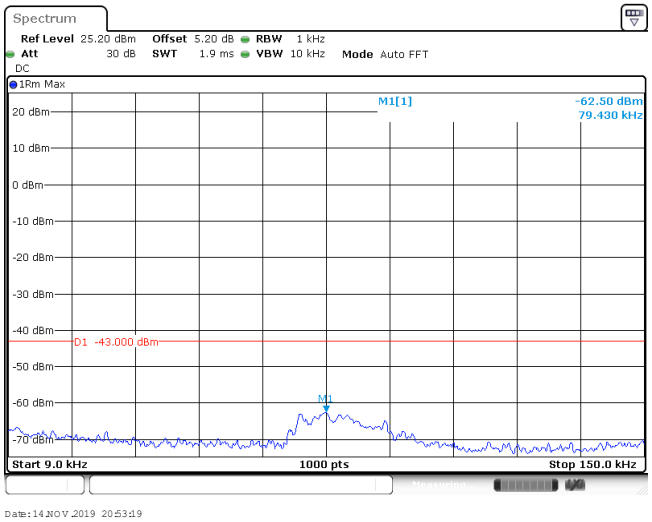
6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots



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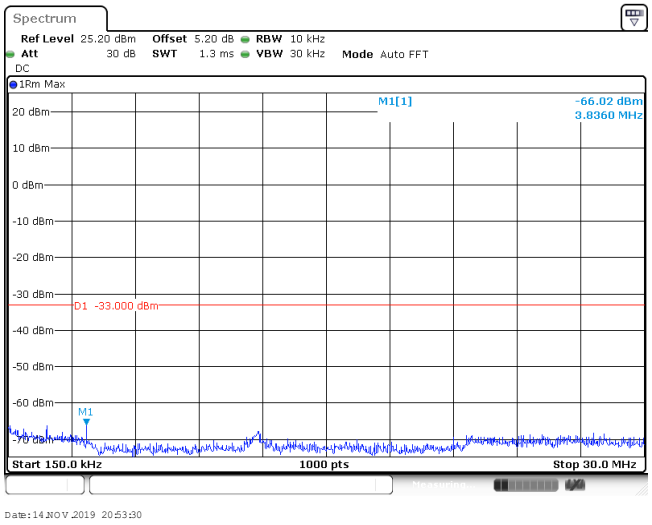

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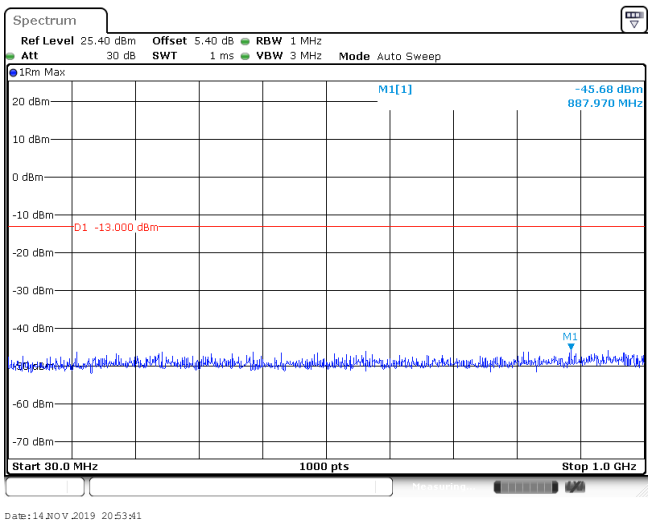

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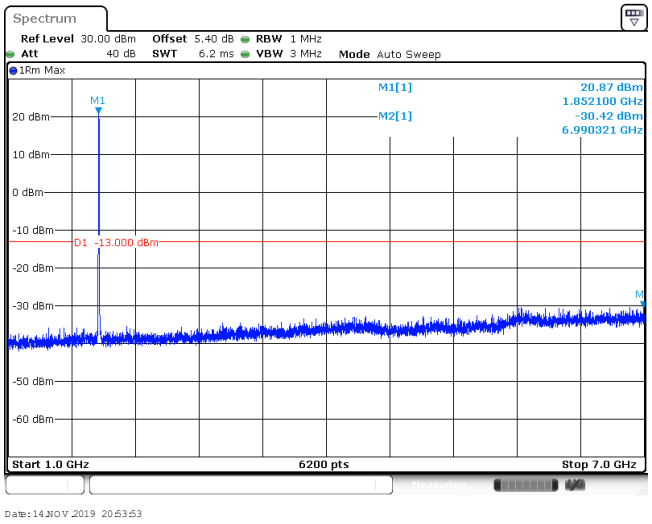

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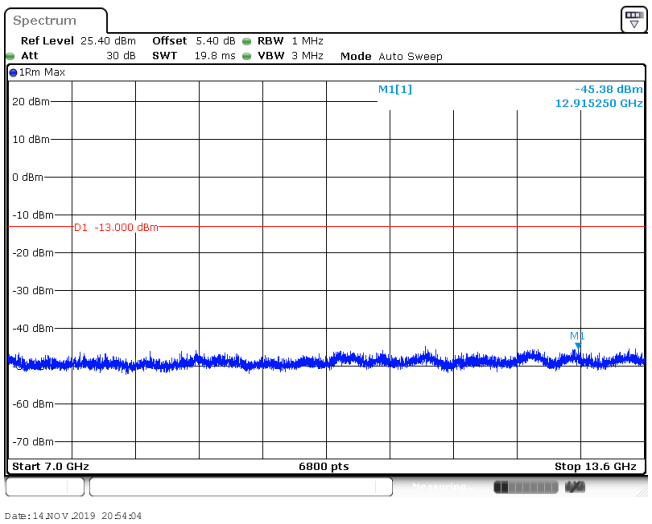

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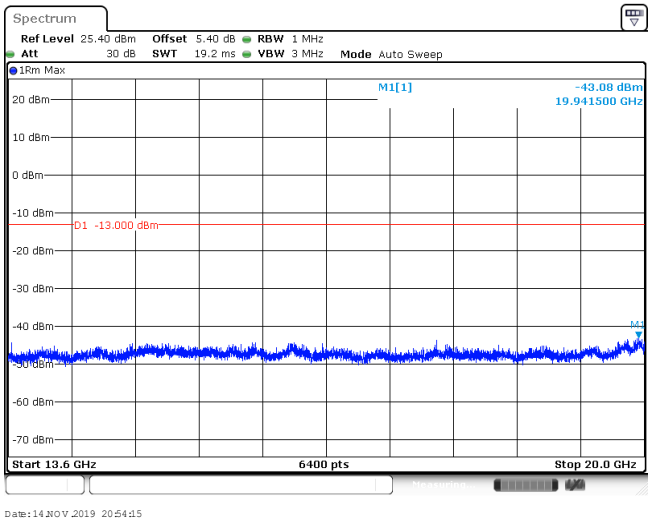

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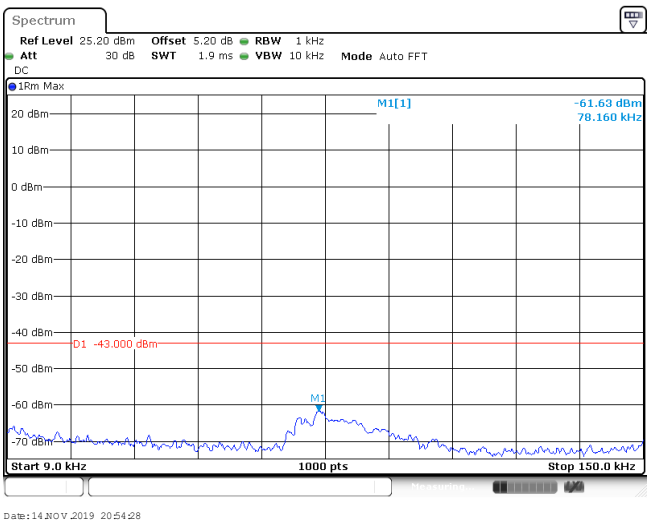

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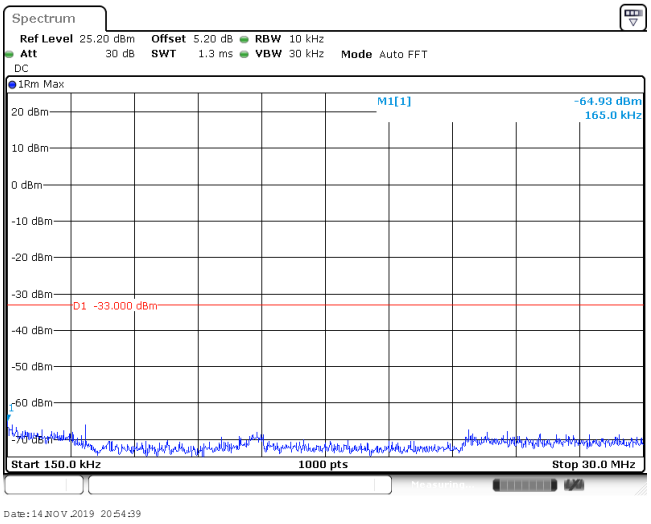

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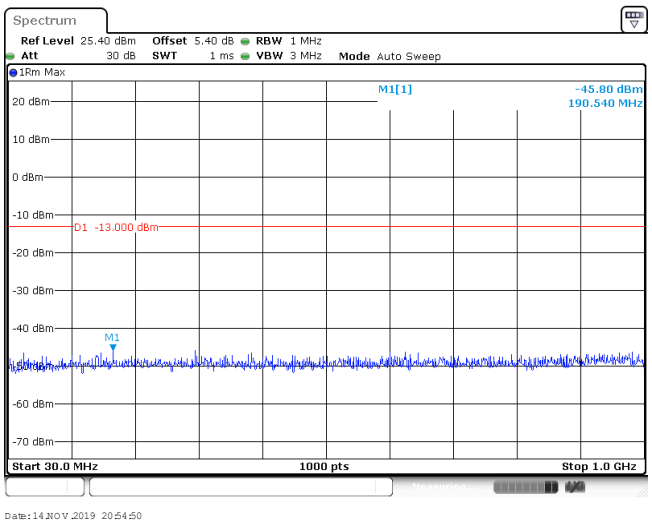

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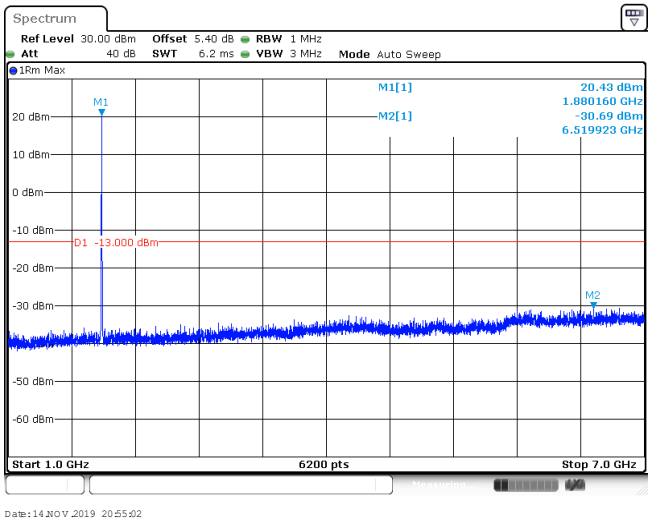

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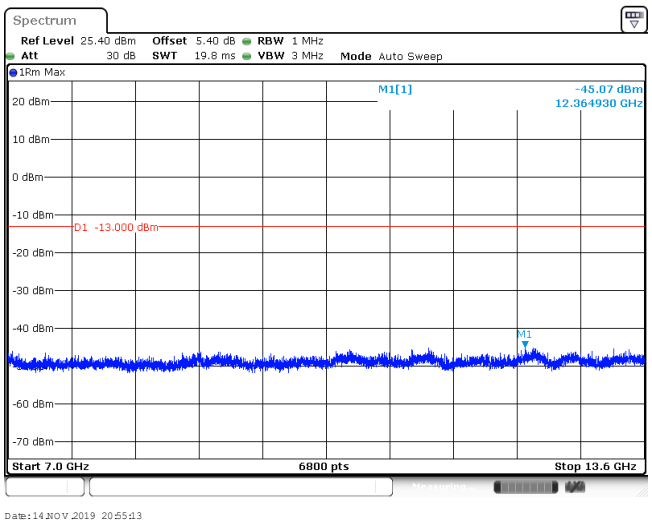

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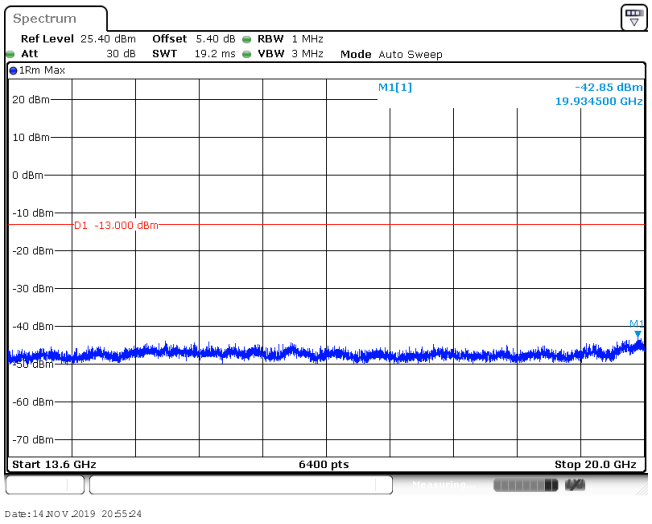

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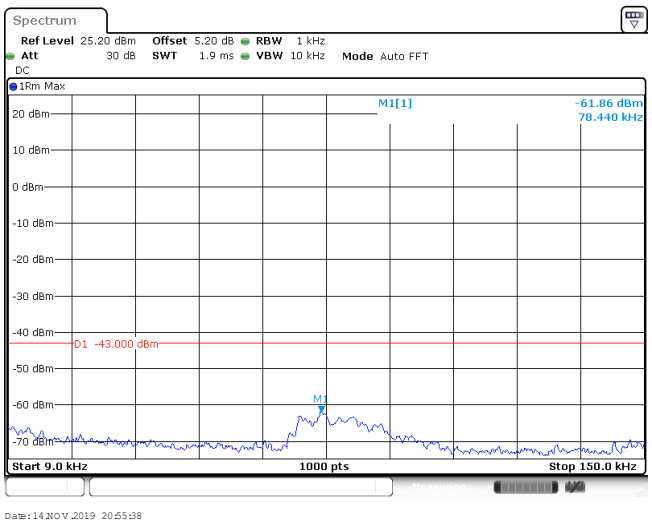

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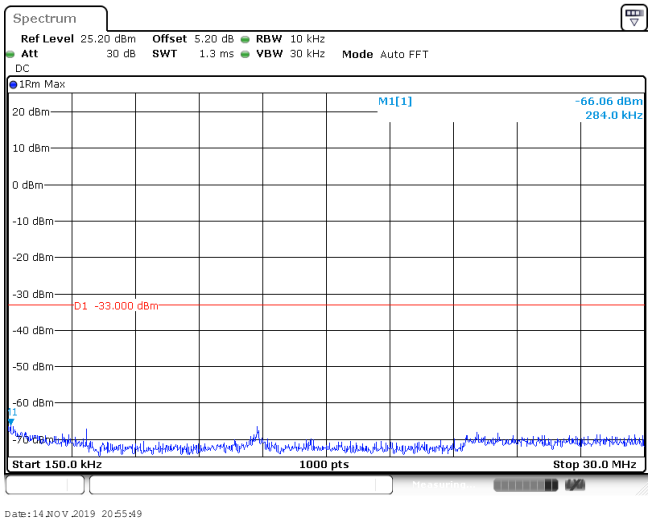

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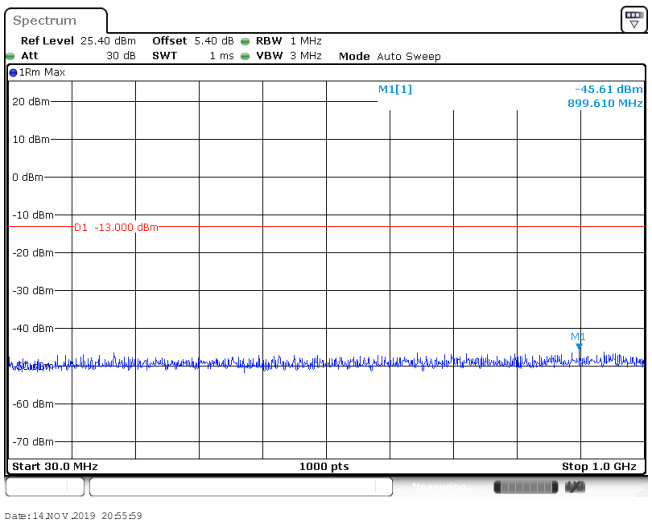

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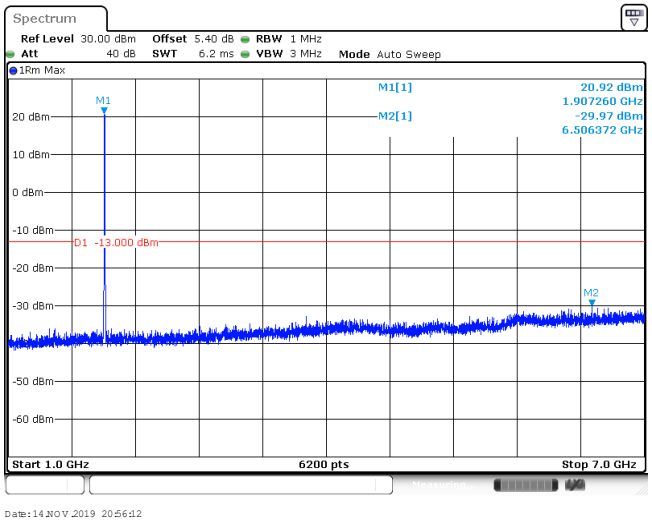

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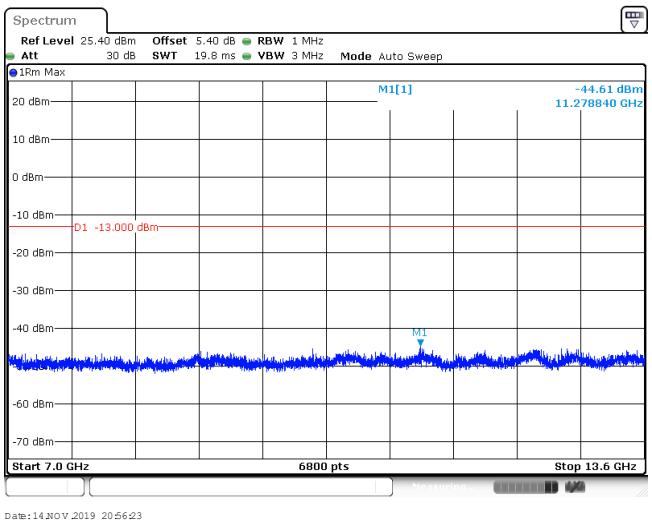

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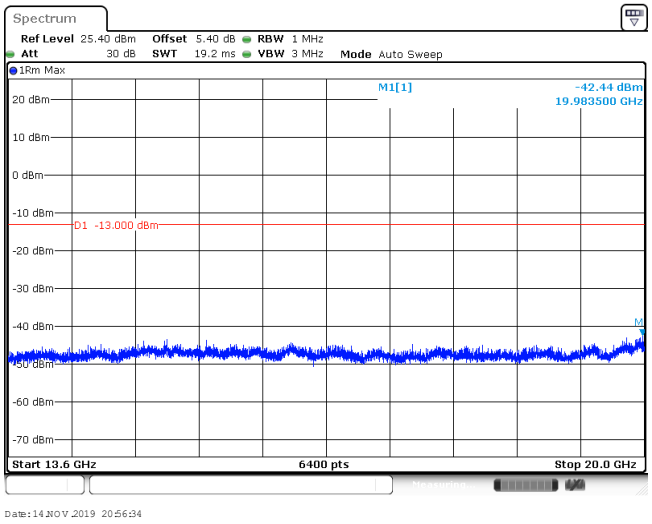

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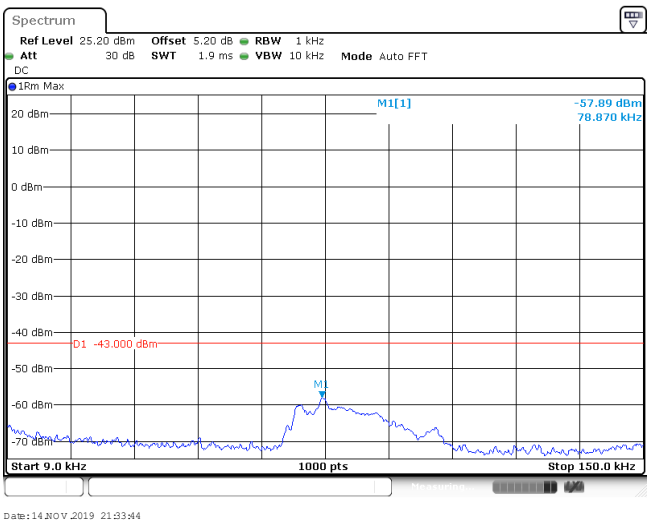

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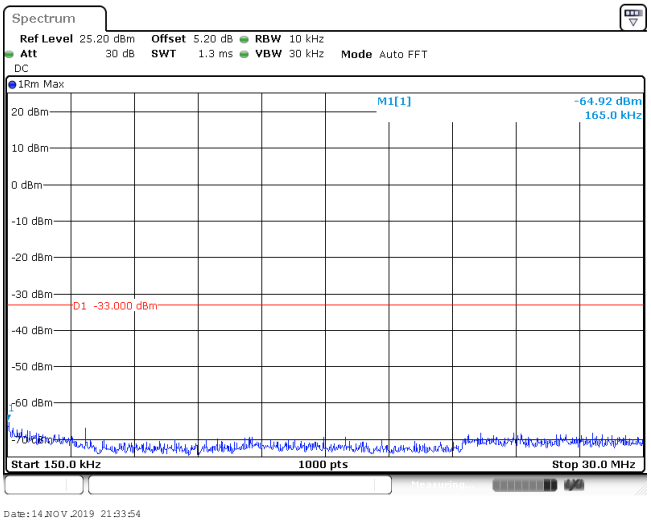

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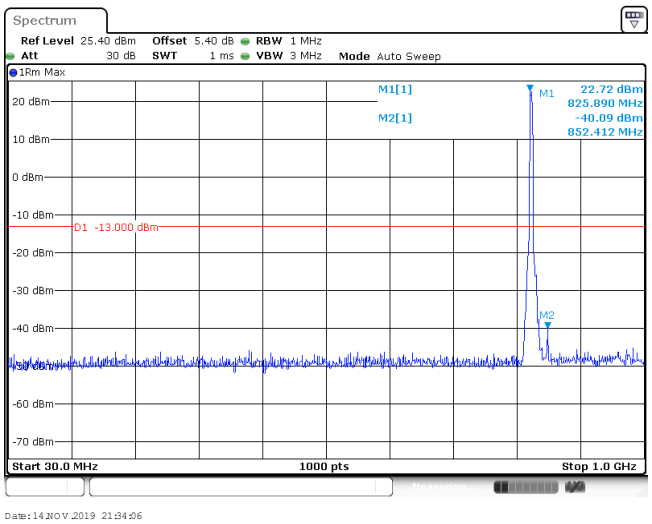

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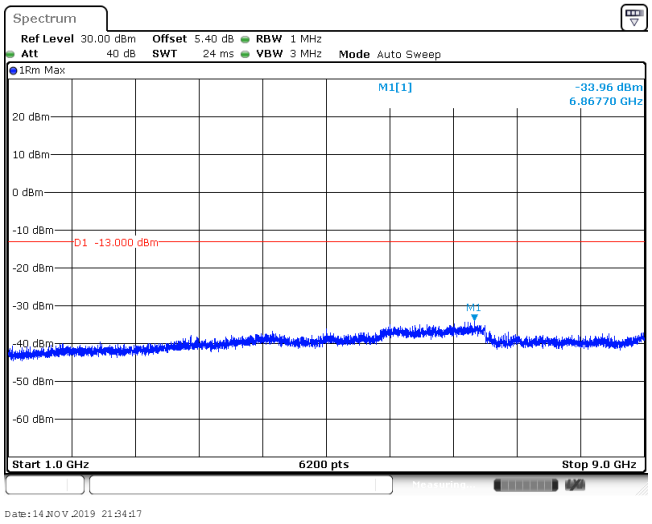

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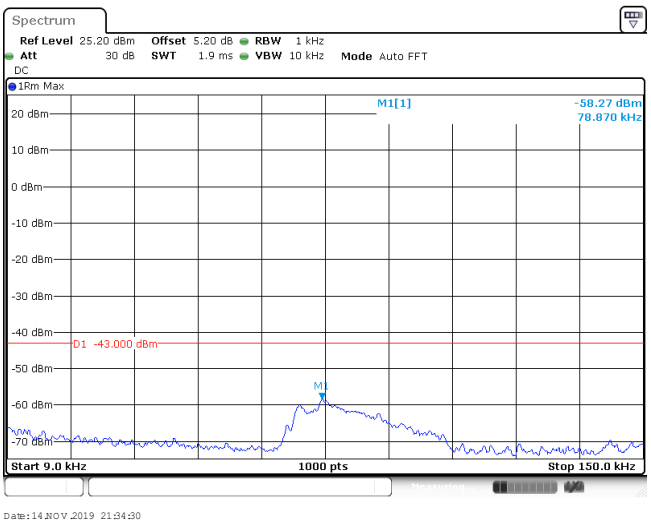

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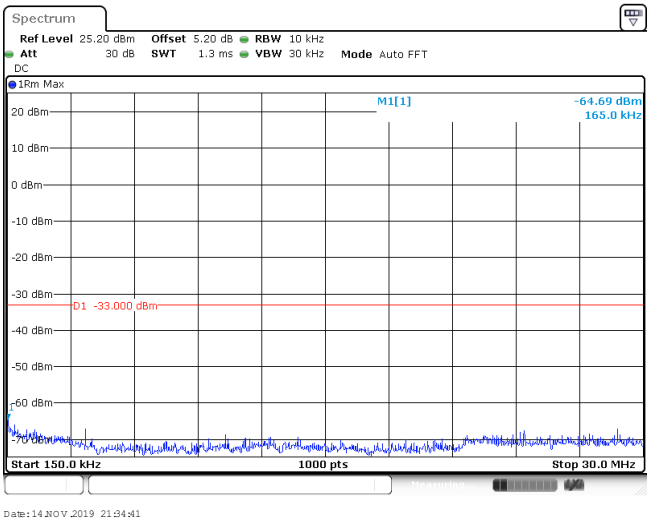

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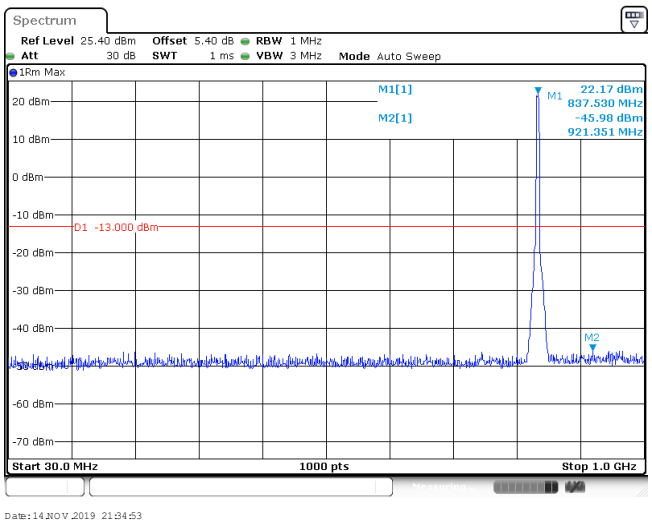

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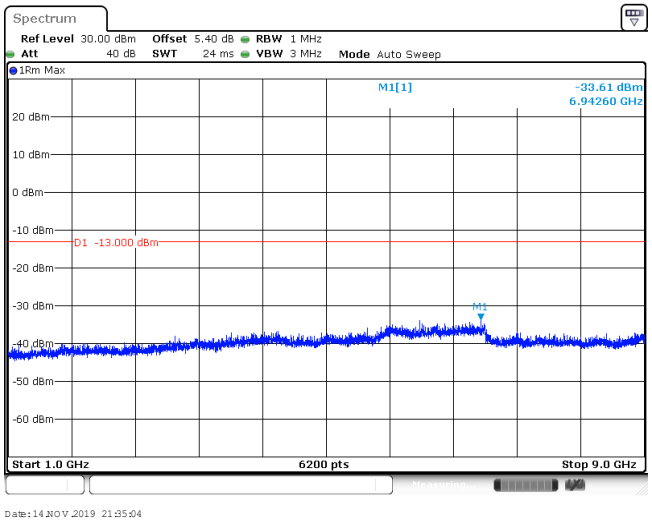

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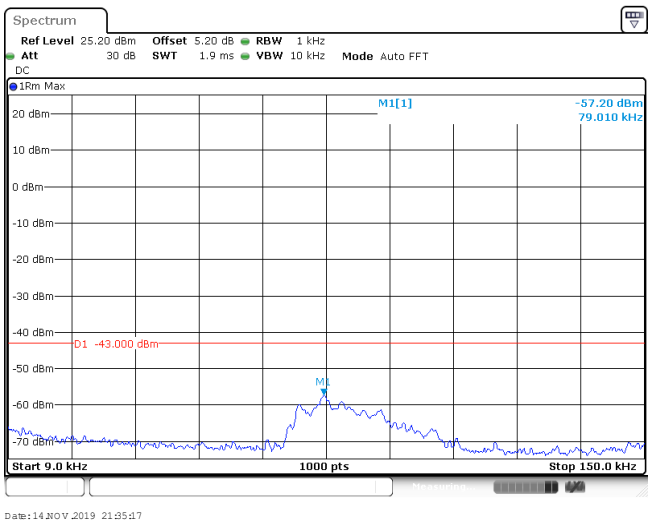

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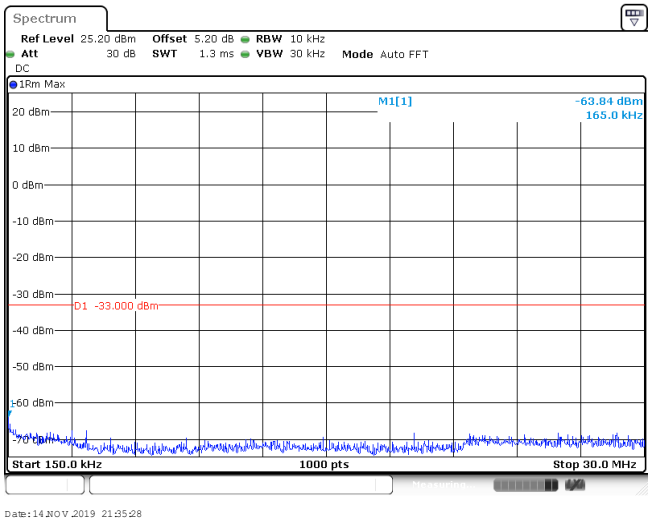

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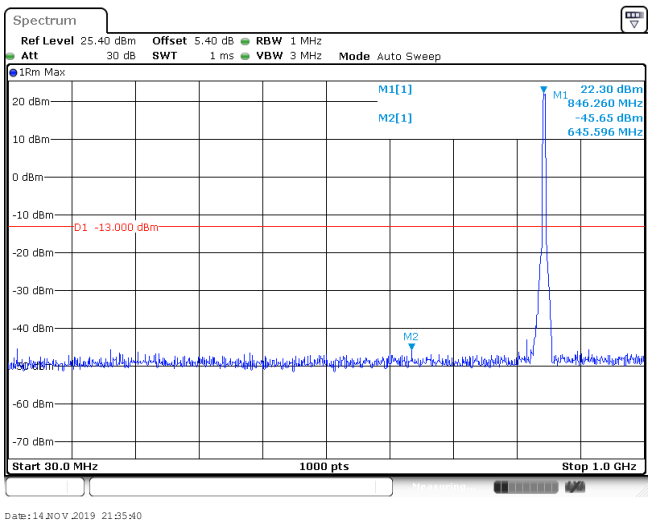

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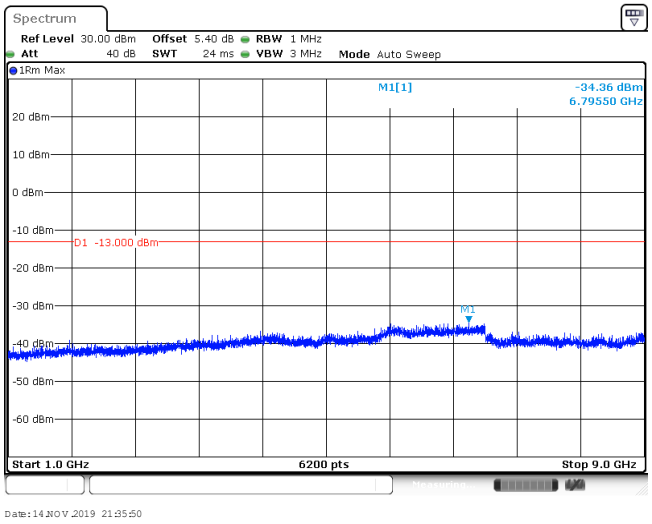

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7. Field Strength of Spurious Radiation

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)	Height (cm)	Angle (°)	Polarization
66.6678	-64.21	-13.00	51.21	174	354	Vertical
116.1403	-64.68	-13.00	51.68	185	291	Vertical
235.0683	-67.21	-13.00	54.21	196	291	Vertical
1492.4985	-46.09	-13.00	33.09	215	316	Vertical
7350.6450	-52.75	-13.00	39.75	262	354	Vertical
17997.4999	-35.07	-13.00	22.07	255	131	Vertical
45.0358	-63.38	-13.00	50.38	258	354	Horizontal
155.1848	-68.80	-13.00	55.80	174	354	Horizontal
235.1168	-66.89	-13.00	53.89	196	163	Horizontal
1418.8838	-47.90	-13.00	34.90	321	143	Horizontal
8029.6677	-53.02	-13.00	40.02	262	259	Horizontal
16391.9464	-38.71	-13.00	25.71	218	68	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6193	-64.58	-13.00	51.58	196	322	Vertical
114.1032	-64.80	-13.00	51.80	185	99	Vertical
2697.5395	-36.72	-13.00	23.72	174	258	Vertical
7347.6449	-52.44	-13.00	39.44	312	356	Vertical
17990.4997	-35.25	-13.00	22.25	262	227	Vertical
40.4280	-64.05	-13.00	51.05	215	291	Horizontal
158.2404	-69.43	-13.00	56.43	147	355	Horizontal
235.0683	-67.04	-13.00	54.04	185	132	Horizontal
2699.5399	-35.46	-13.00	22.46	196	6	Horizontal
7359.1453	-53.62	-13.00	40.62	213	227	Horizontal
16397.9466	-39.30	-13.00	26.30	262	227	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
62.3996	-69.37	-13.00	56.37	188	195	Vertical
100.7165	-67.41	-13.00	54.41	196	4	Vertical
404.1477	-67.53	-13.00	54.53	215	132	Vertical
2702.3405	-36.66	-13.00	23.66	158	316	Vertical
8557.1852	-52.39	-13.00	39.39	174	67	Vertical
17995.4999	-35.55	-13.00	22.55	196	132	Vertical
41.3011	-64.29	-13.00	51.29	285	355	Horizontal
158.2404	-69.49	-13.00	56.49	174	355	Horizontal
235.0683	-66.99	-13.00	53.99	196	131	Horizontal
2698.7397	-35.38	-13.00	22.38	213	93	Horizontal
7362.1454	-53.21	-13.00	40.21	162	323	Horizontal
10640.7547	-48.22	-13.00	35.22	246	355	Horizontal

7.2. Test Band = WCDMA Band V

7.2.1.Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6678	-65.30	-13.00	52.30	174	195	Vertical
114.0062	-65.02	-13.00	52.02	185	259	Vertical
576.9618	-64.95	-13.00	51.95	196	291	Vertical
1651.3303	-58.35	-13.00	45.35	213	237	Vertical
2582.3165	-51.54	-13.00	38.54	258	231	Vertical
17996.4999	-35.33	-13.00	22.33	299	354	Vertical
40.4280	-64.02	-13.00	51.02	132	35	Horizontal
235.1168	-66.64	-13.00	53.64	258	323	Horizontal
526.8588	-64.75	-13.00	51.75	274	163	Horizontal
2581.9164	-50.87	-13.00	37.87	159	113	Horizontal
7368.1456	-53.41	-13.00	40.41	196	35	Horizontal
16392.4464	-39.16	-13.00	26.16	231	163	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6678	-64.53	-13.00	51.53	174	354	Vertical
113.3272	-64.61	-13.00	51.61	185	163	Vertical
478.9869	-66.59	-13.00	53.59	196	163	Vertical
1892.9786	-55.87	-13.00	42.87	231	348	Vertical
7363.6455	-52.79	-13.00	39.79	262	354	Vertical
17990.9997	-35.51	-13.00	22.51	291	131	Vertical
44.5022	-63.88	-13.00	50.88	258	354	Horizontal
235.0683	-65.51	-13.00	52.51	174	131	Horizontal
351.5711	-67.98	-13.00	54.98	196	227	Horizontal
2576.3153	-51.21	-13.00	38.21	312	154	Horizontal
7351.6451	-53.34	-13.00	40.34	262	322	Horizontal
16383.9461	-39.44	-13.00	26.44	281	322	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6678	-64.89	-13.00	51.89	258	163	Vertical
112.4541	-64.55	-13.00	51.55	174	67	Vertical
1902.9806	-57.77	-13.00	44.77	196	340	Vertical
2575.9152	-48.34	-13.00	35.34	231	124	Vertical
7377.1459	-52.42	-13.00	39.42	262	354	Vertical
17999.0000	-34.74	-13.00	21.74	215	195	Vertical
40.5735	-64.37	-13.00	51.37	196	226	Horizontal
158.2404	-68.93	-13.00	55.93	185	4	Horizontal
238.1724	-67.36	-13.00	54.36	174	163	Horizontal
1905.7812	-58.07	-13.00	45.07	231	131	Horizontal
2537.1074	-53.25	-13.00	40.25	262	226	Horizontal
16402.9468	-39.28	-13.00	26.28	251	258	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

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-19.09	-0.010306	±2.5	PASS
Band II	9262	VN	TN	-10.64	-0.005742	±2.5	PASS
Band II	9262	VH	TN	-10.76	-0.005811	±2.5	PASS
Band II	9400	VL	TN	-7.88	-0.004193	±2.5	PASS
Band II	9400	VN	TN	-5.16	-0.002743	±2.5	PASS
Band II	9400	VH	TN	-18.86	-0.010033	±2.5	PASS
Band II	9538	VL	TN	-14.72	-0.007716	±2.5	PASS
Band II	9538	VN	TN	-10.21	-0.005351	±2.5	PASS
Band II	9538	VH	TN	-18.35	-0.009621	±2.5	PASS
Band V	4132	VL	TN	-6.45	-0.007807	±2.5	PASS
Band V	4132	VN	TN	-14.35	-0.017362	±2.5	PASS
Band V	4132	VH	TN	-6.66	-0.008058	±2.5	PASS
Band V	4182	VL	TN	-6.47	-0.007731	±2.5	PASS
Band V	4182	VN	TN	-15.21	-0.018181	±2.5	PASS
Band V	4182	VH	TN	-11.65	-0.013931	±2.5	PASS
Band V	4233	VL	TN	-13.41	-0.015841	±2.5	PASS
Band V	4233	VN	TN	-10.94	-0.012926	±2.5	PASS
Band V	4233	VH	TN	-11.88	-0.014033	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-9.15	-0.004939	±2.5	PASS
Band II	9262	VN	-20	-14.53	-0.007846	±2.5	PASS
Band II	9262	VN	-10	-10.14	-0.005471	±2.5	PASS
Band II	9262	VN	0	-9.25	-0.004993	±2.5	PASS
Band II	9262	VN	10	-17.47	-0.009433	±2.5	PASS
Band II	9262	VN	20	-19.35	-0.010445	±2.5	PASS
Band II	9262	VN	30	-11.88	-0.006414	±2.5	PASS
Band II	9262	VN	40	-11.85	-0.006398	±2.5	PASS
Band II	9262	VN	50	-7.67	-0.004139	±2.5	PASS
Band II	9400	VN	-30	-19.01	-0.010113	±2.5	PASS
Band II	9400	VN	-20	-15.79	-0.008397	±2.5	PASS
Band II	9400	VN	-10	-15.36	-0.008168	±2.5	PASS
Band II	9400	VN	0	-14.41	-0.007666	±2.5	PASS
Band II	9400	VN	10	-12.21	-0.006494	±2.5	PASS

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Band II	9400	VN	20	-15.71	-0.008355	±2.5	PASS
Band II	9400	VN	30	-18.40	-0.009785	±2.5	PASS
Band II	9400	VN	40	-16.62	-0.008838	±2.5	PASS
Band II	9400	VN	50	-8.69	-0.004623	±2.5	PASS
Band II	9538	VN	-30	-22.32	-0.011702	±2.5	PASS
Band II	9538	VN	-20	-18.62	-0.009760	±2.5	PASS
Band II	9538	VN	-10	-17.17	-0.009003	±2.5	PASS
Band II	9538	VN	0	-13.17	-0.006903	±2.5	PASS
Band II	9538	VN	10	-13.68	-0.007173	±2.5	PASS
Band II	9538	VN	20	-13.83	-0.007248	±2.5	PASS
Band II	9538	VN	30	-11.16	-0.005849	±2.5	PASS
Band II	9538	VN	40	-19.92	-0.010442	±2.5	PASS
Band II	9538	VN	50	-12.36	-0.006479	±2.5	PASS
Band V	4132	VN	-30	-7.28	-0.008811	±2.5	PASS
Band V	4132	VN	-20	-4.14	-0.005011	±2.5	PASS
Band V	4132	VN	-10	-13.78	-0.016678	±2.5	PASS
Band V	4132	VN	0	-5.14	-0.006223	±2.5	PASS
Band V	4132	VN	10	-7.37	-0.008915	±2.5	PASS
Band V	4132	VN	20	-12.76	-0.015441	±2.5	PASS
Band V	4132	VN	30	-12.60	-0.015250	±2.5	PASS
Band V	4132	VN	40	-2.34	-0.002830	±2.5	PASS
Band V	4132	VN	50	-8.24	-0.009971	±2.5	PASS
Band V	4182	VN	-30	-11.39	-0.013614	±2.5	PASS
Band V	4182	VN	-20	-10.04	-0.012006	±2.5	PASS
Band V	4182	VN	-10	-9.94	-0.011887	±2.5	PASS
Band V	4182	VN	0	-11.02	-0.013178	±2.5	PASS
Band V	4182	VN	10	-12.06	-0.014418	±2.5	PASS
Band V	4182	VN	20	-8.54	-0.010211	±2.5	PASS
Band V	4182	VN	30	-5.49	-0.006568	±2.5	PASS
Band V	4182	VN	40	-11.57	-0.013828	±2.5	PASS
Band V	4182	VN	50	-5.82	-0.006961	±2.5	PASS
Band V	4233	VN	-30	-10.34	-0.012217	±2.5	PASS
Band V	4233	VN	-20	-10.81	-0.012774	±2.5	PASS
Band V	4233	VN	-10	-2.46	-0.002906	±2.5	PASS
Band V	4233	VN	0	-8.20	-0.009682	±2.5	PASS
Band V	4233	VN	10	-11.01	-0.013002	±2.5	PASS
Band V	4233	VN	20	-12.44	-0.014692	±2.5	PASS
Band V	4233	VN	30	-3.33	-0.003937	±2.5	PASS
Band V	4233	VN	40	-6.83	-0.008068	±2.5	PASS
Band V	4233	VN	50	-9.06	-0.010704	±2.5	PASS

The End

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