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	22.71	20.61	33.00	PASS
Band II	9400	22.74	20.64	33.00	PASS
Band II	9538	22.74	20.64	33.00	PASS
Band IV	4132	22.87	19.17	30.00	PASS
Band IV	4182	22.75	19.05	30.00	PASS
Band IV	4233	22.91	19.21	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	22.75	17	38.45	PASS
Band V	4182	22.66	16.91	38.45	PASS
Band V	4233	22.54	16.79	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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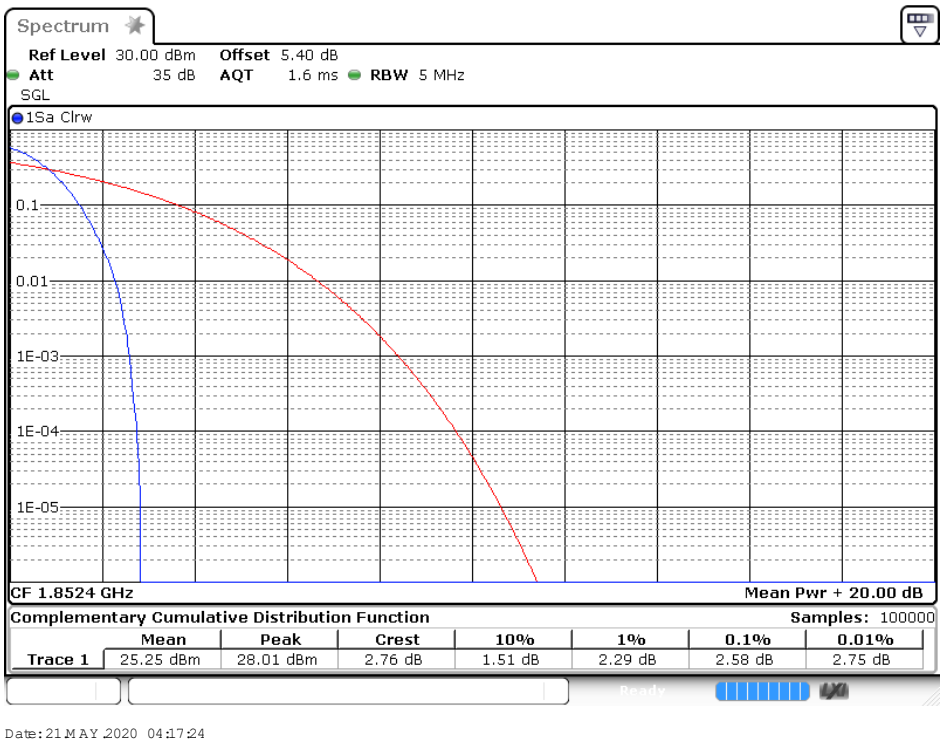
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.58	13	PASS
Band II	9400	2.96	13	PASS
Band II	9538	2.46	13	PASS
Band IV	1312	2.90	13	PASS
Band IV	1413	2.67	13	PASS
Band IV	1513	2.72	13	PASS
Band V	4132	2.52	13	PASS
Band V	4182	3.16	13	PASS
Band V	4233	2.87	13	PASS

2.2. Test Plots

Band II_9262



Band II_9400

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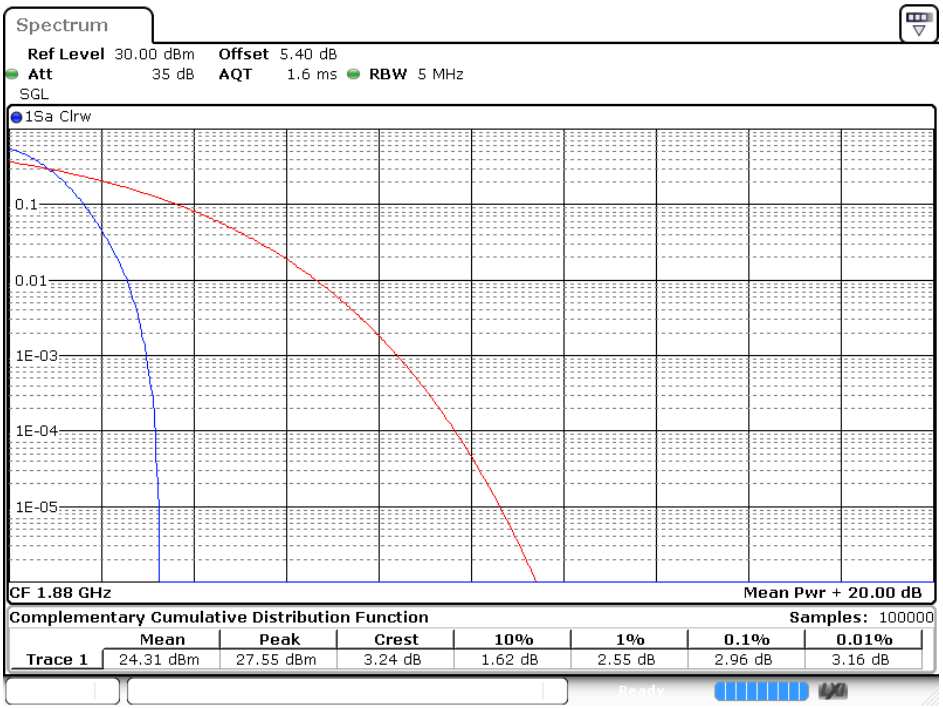

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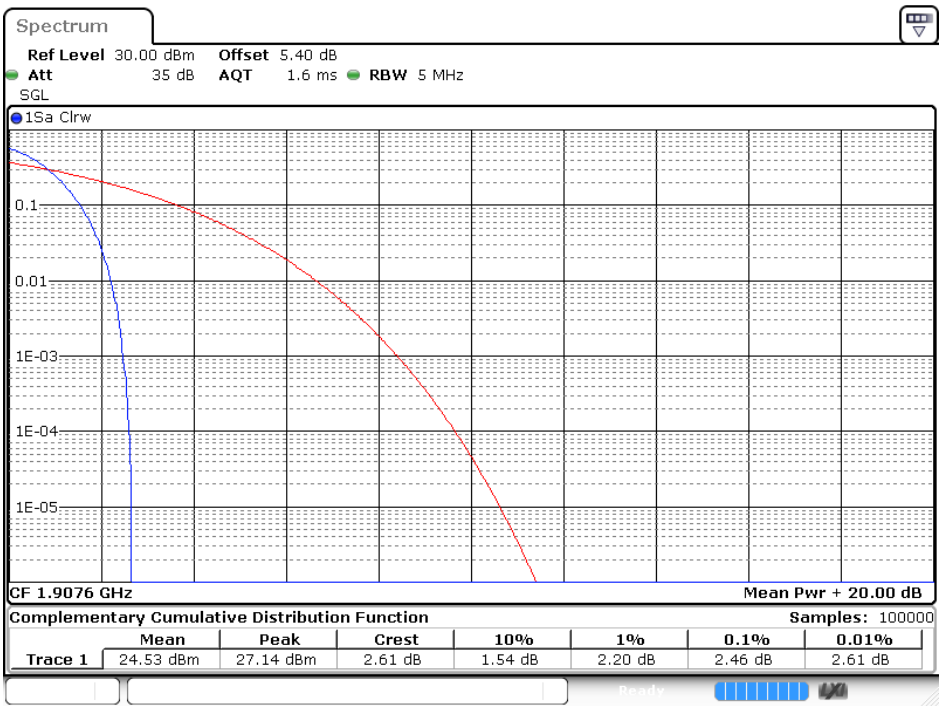
Band II_9538



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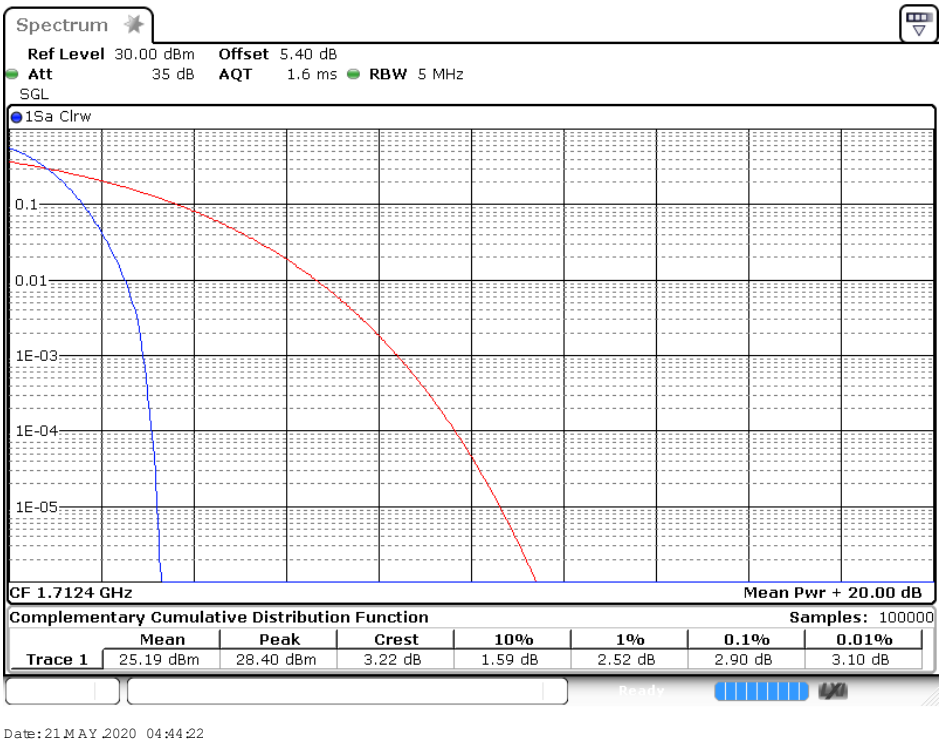
Band IV_1312



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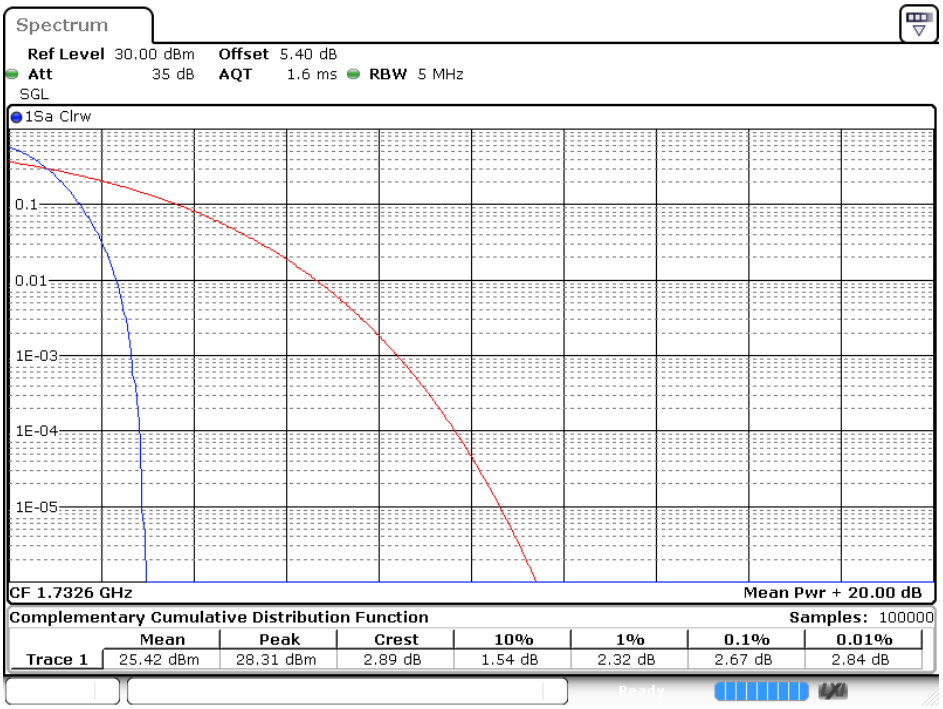

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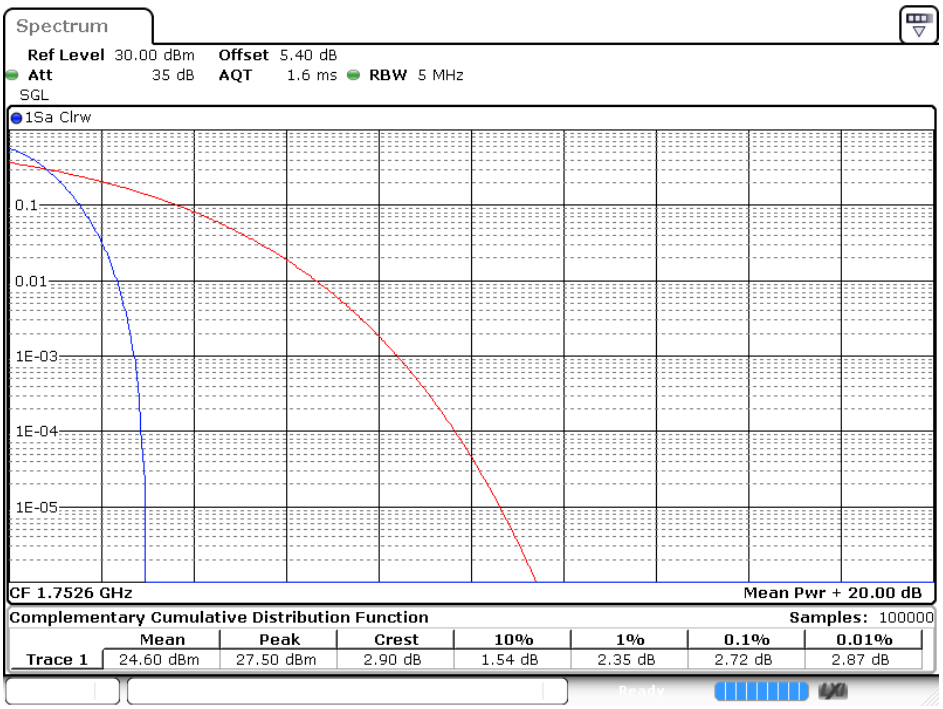

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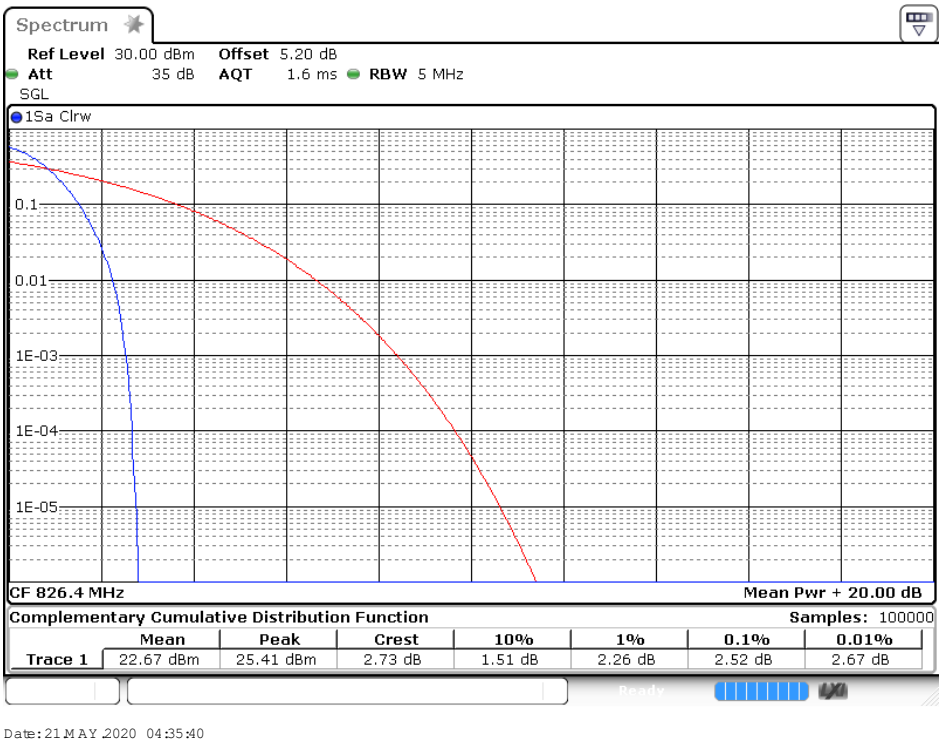
Band V_4132



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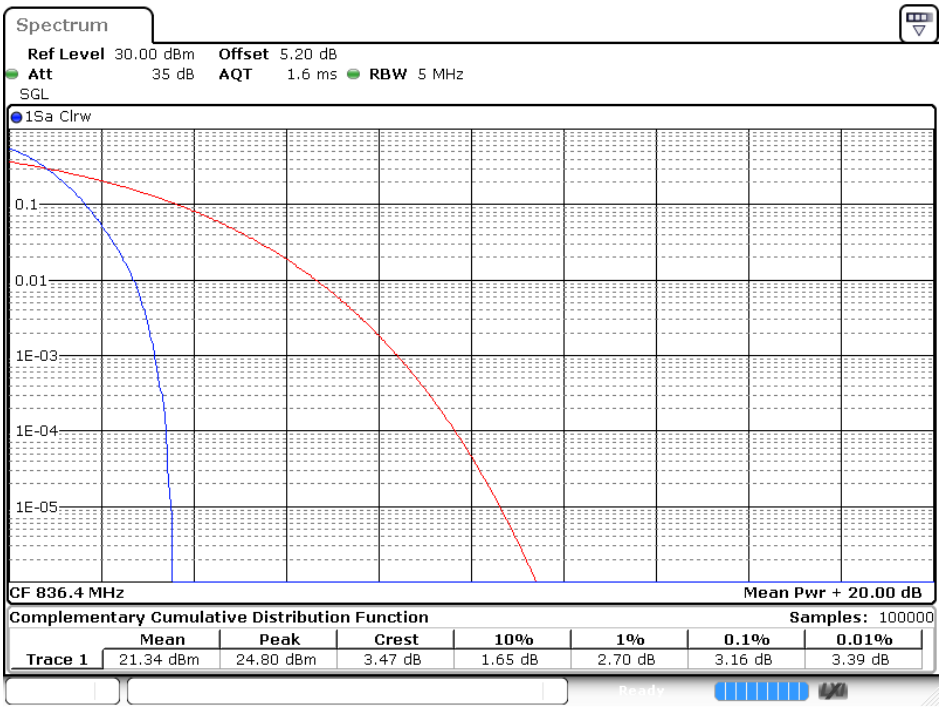

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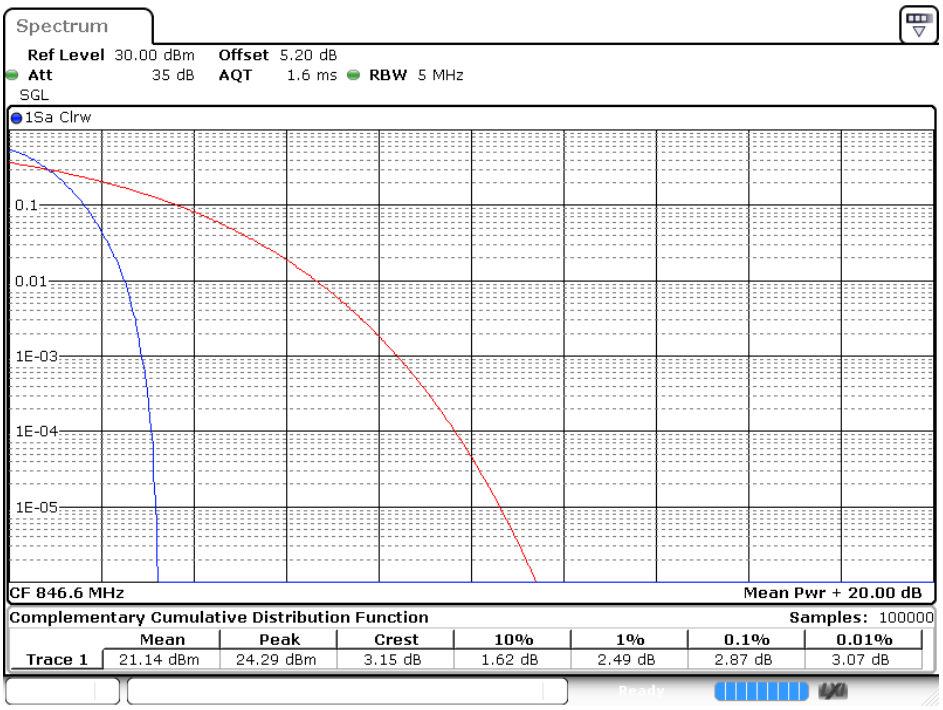

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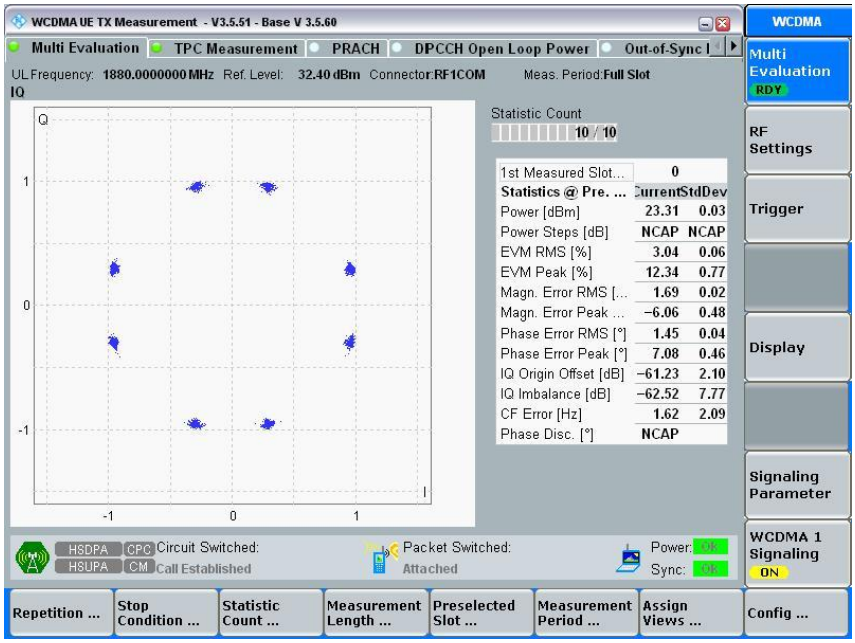
3. Modulation Characteristics

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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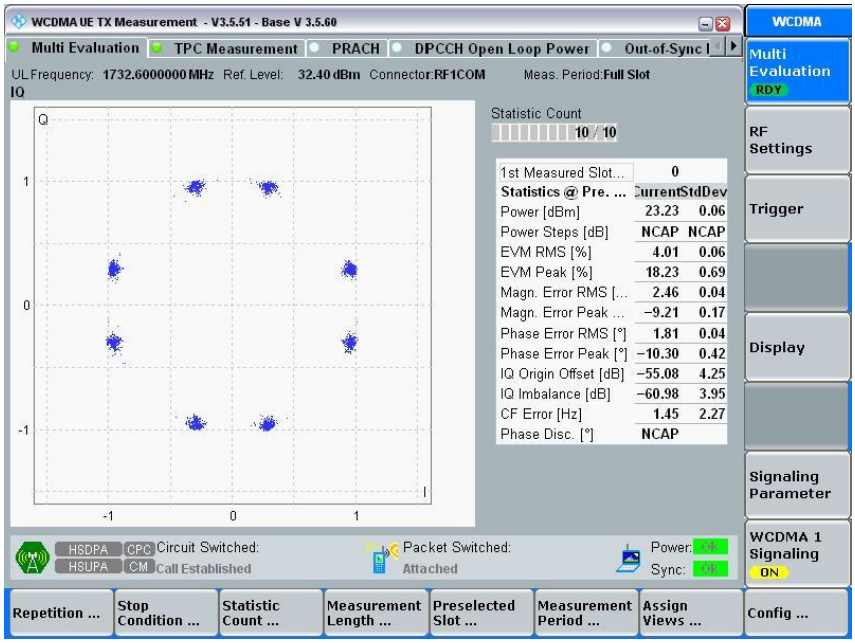
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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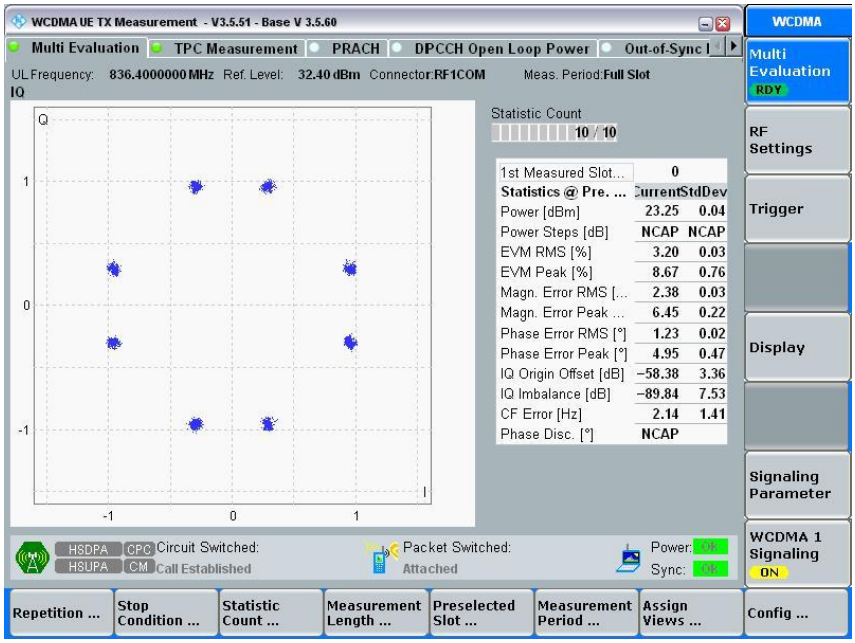
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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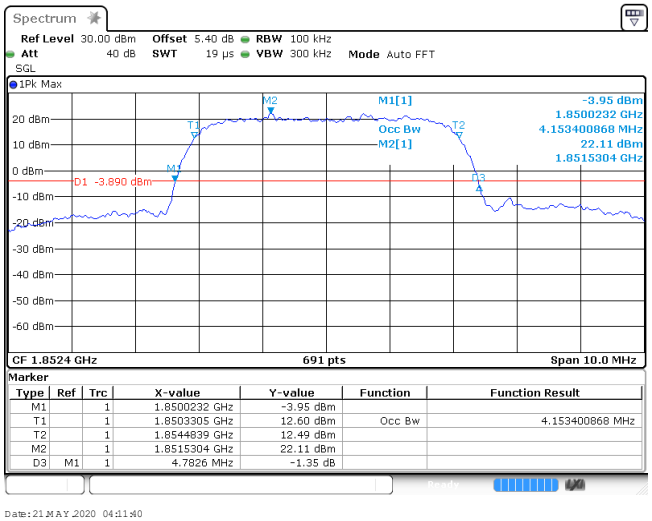
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4783	---	PASS
Band II	9400	4153.4	4768	---	PASS
Band II	9538	4153.4	4797	---	PASS
Band IV	1312	4124.5	4754	---	PASS
Band IV	1413	4124.5	4754	---	PASS
Band IV	1513	4124.5	4754	---	PASS
Band V	4132	4138.9	4783	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4138.9	4739	---	PASS

4.2. Test Plots



Band II_9262

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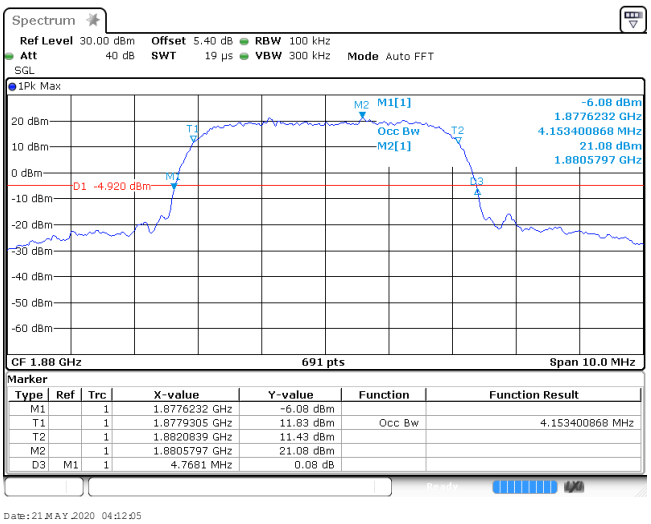
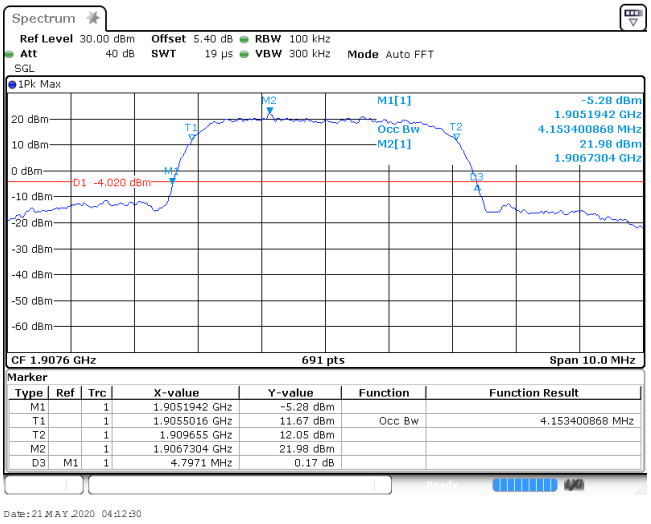


Band II_9400



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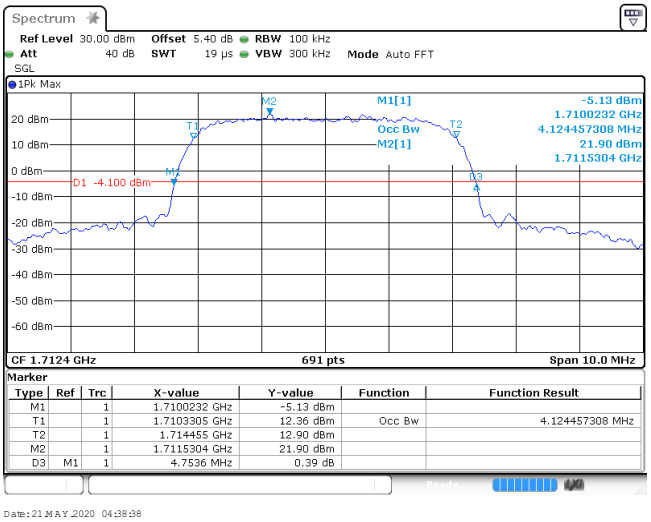
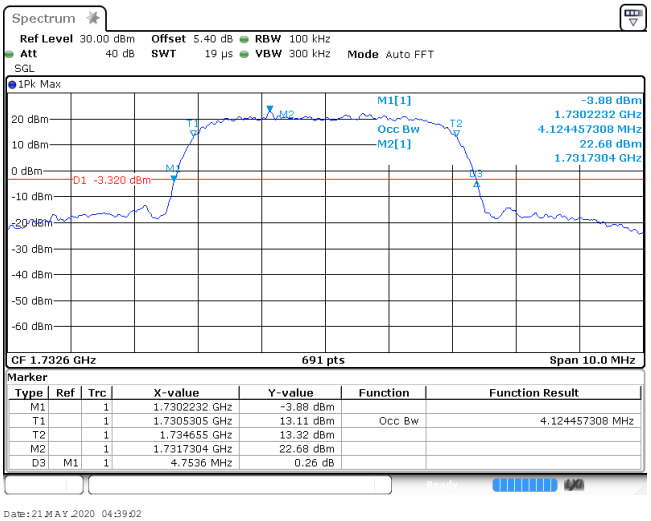


Band IV_1312



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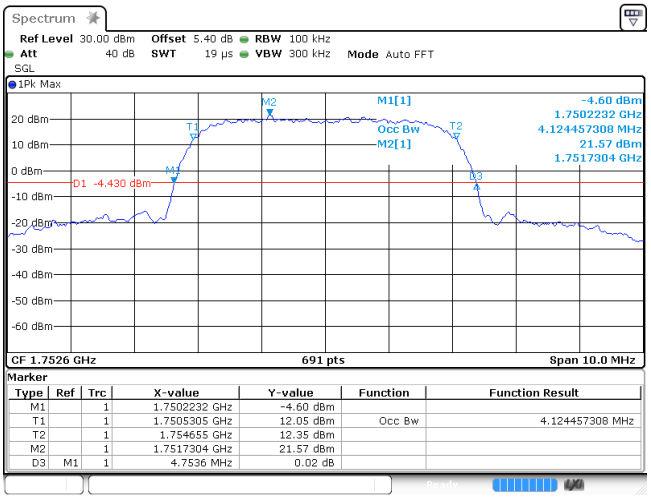
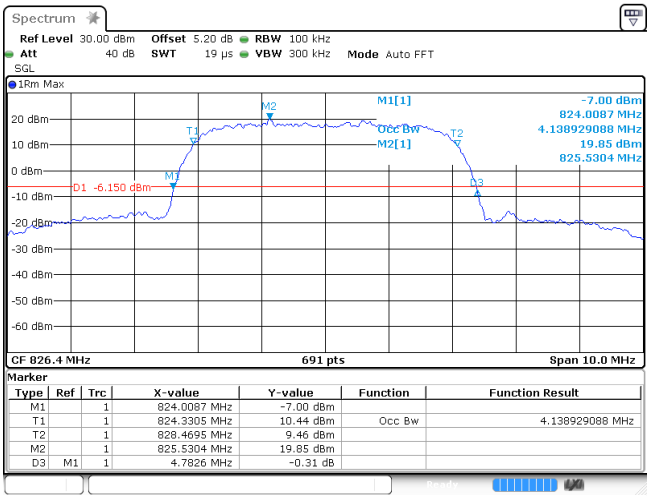


Band IV_1513



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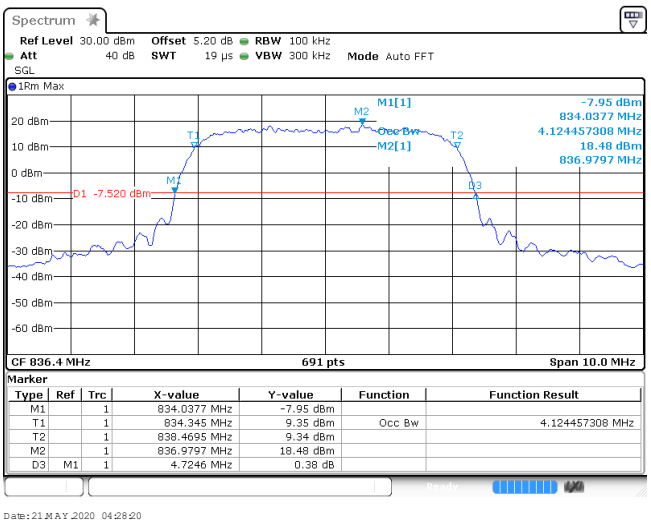
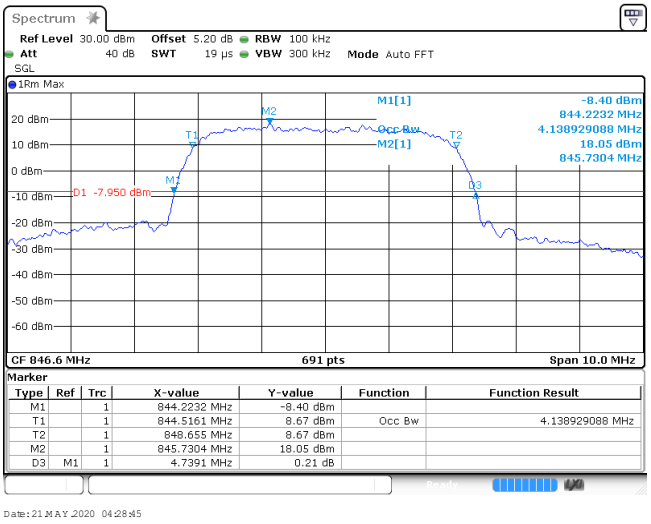


Band V_4182



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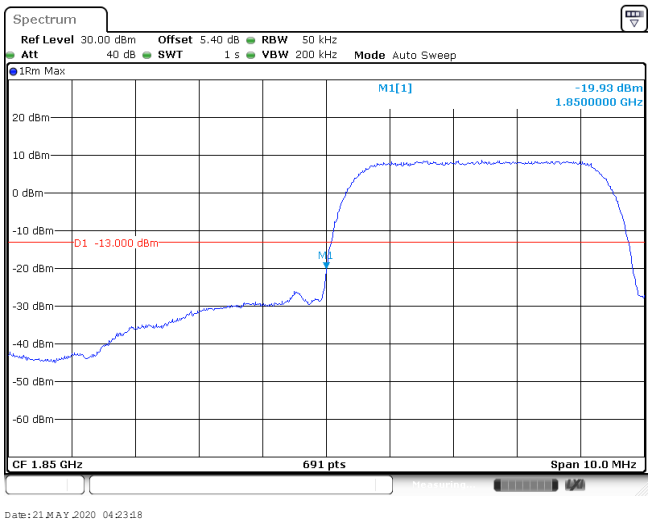
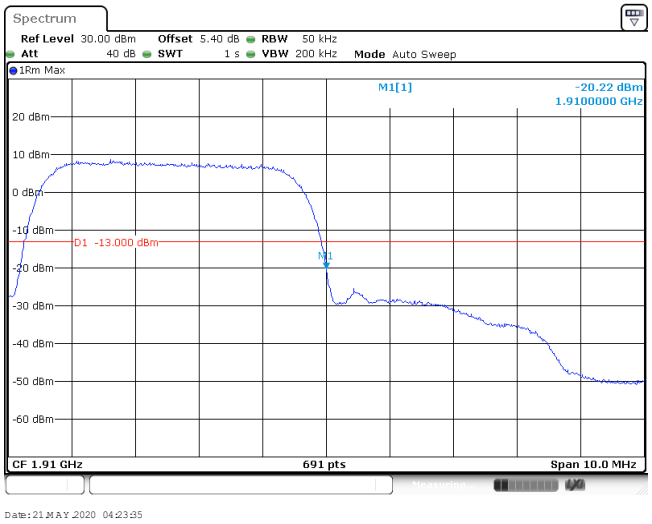
5. Band Edge Compliance

5.1. Test Plots



Band II_9262



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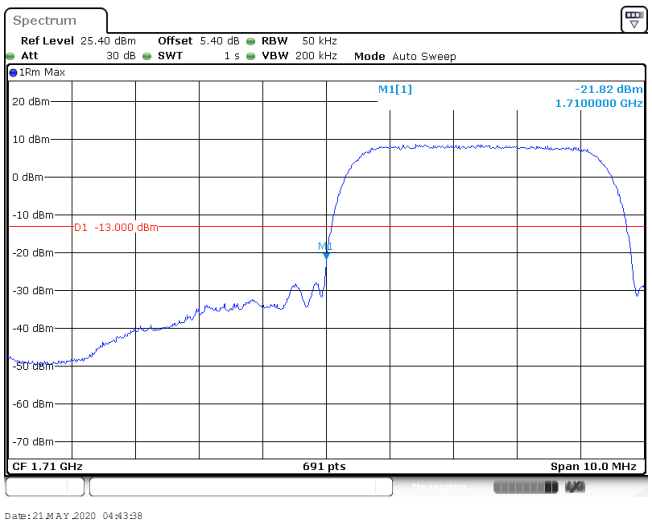
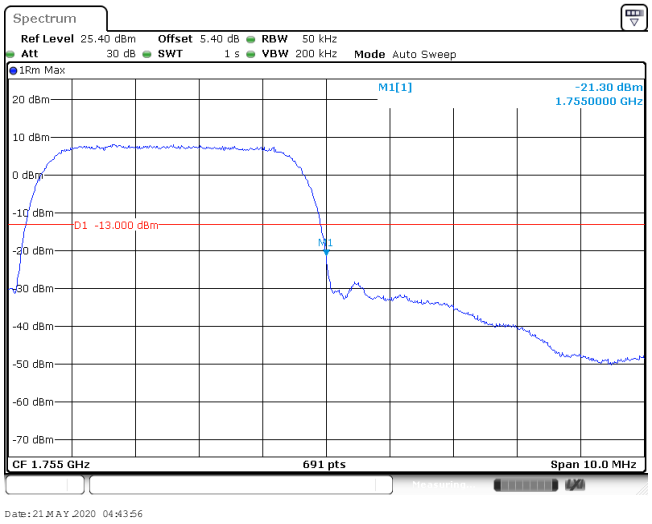


Band IV_1312



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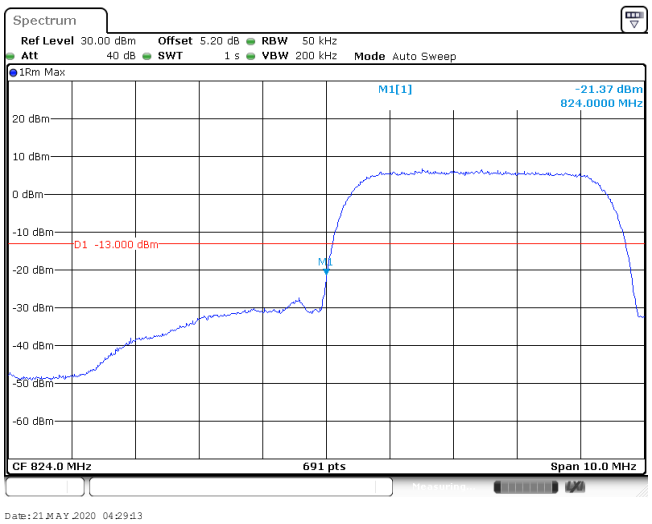

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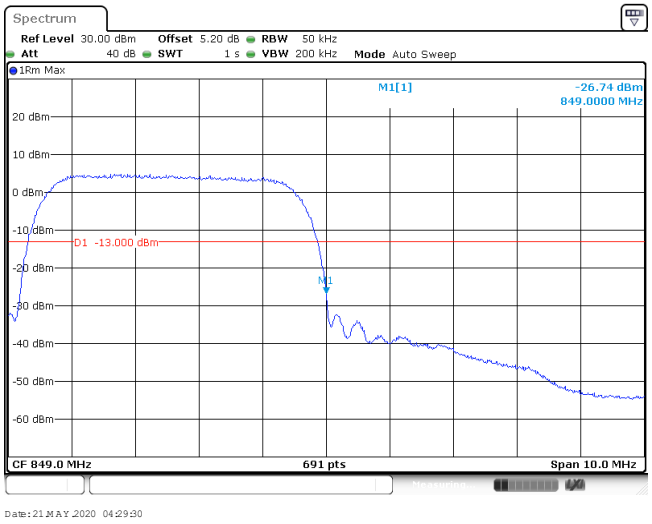

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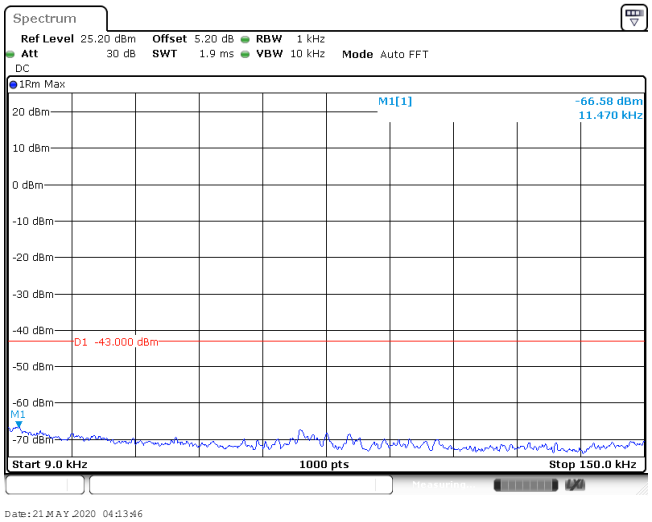
6. Spurious Emission at Antenna Terminal

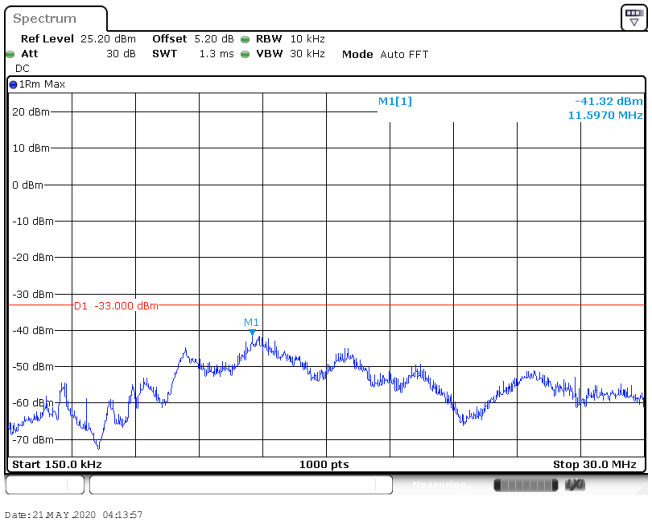
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k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



Band II_9262



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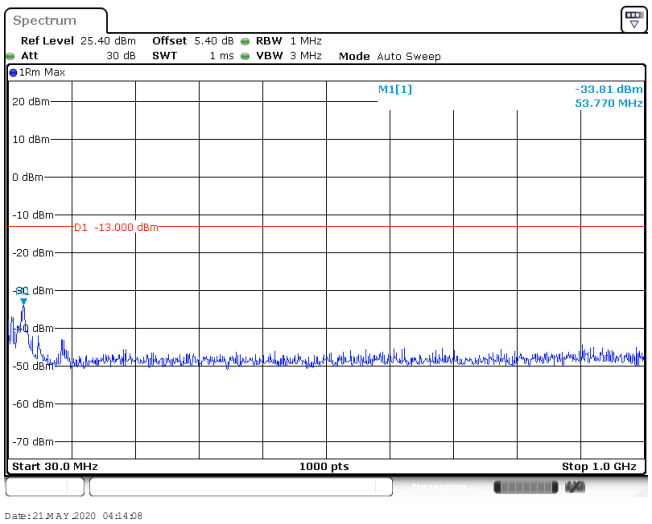

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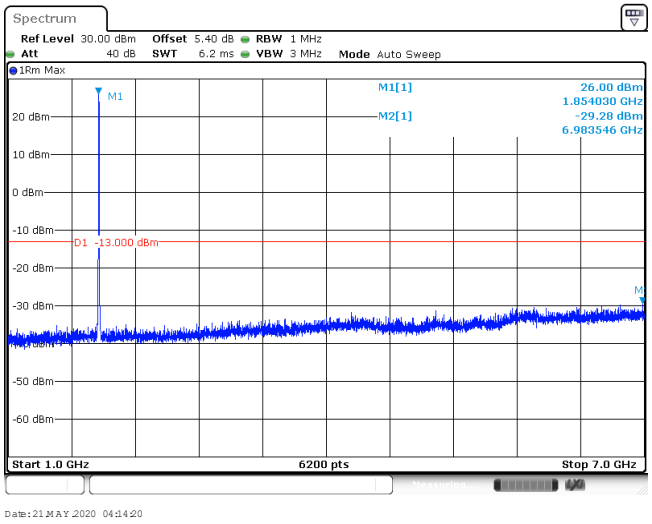

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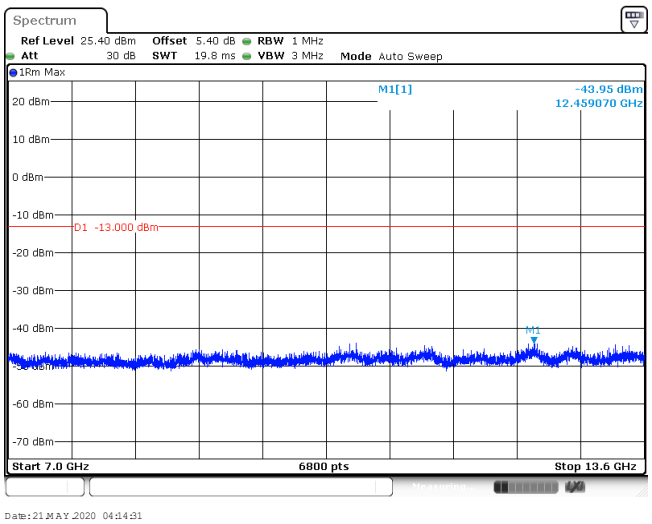

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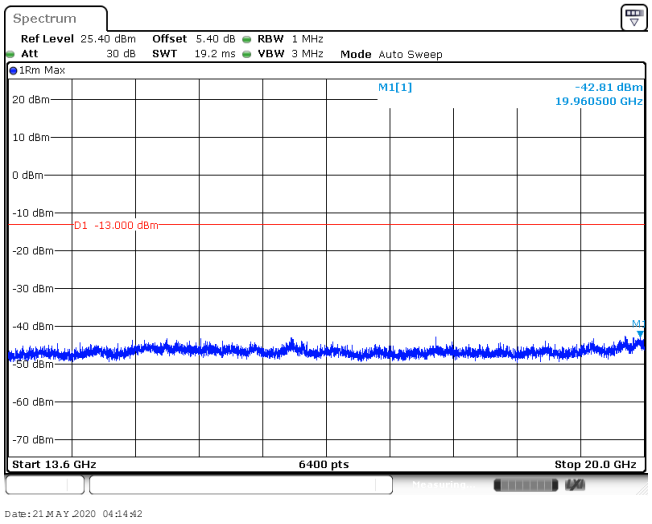

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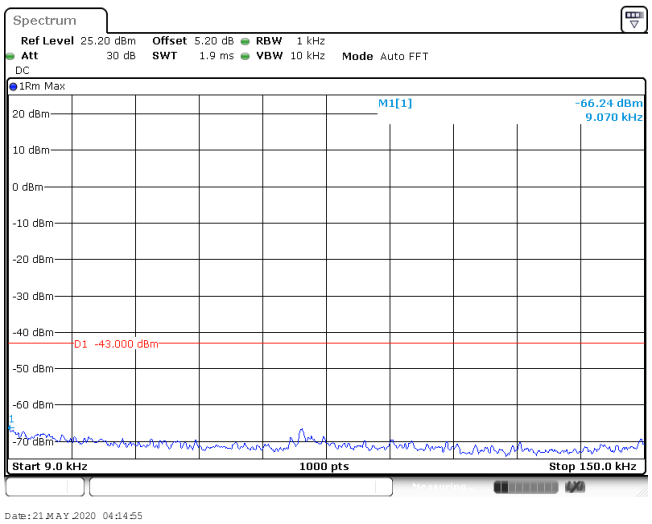

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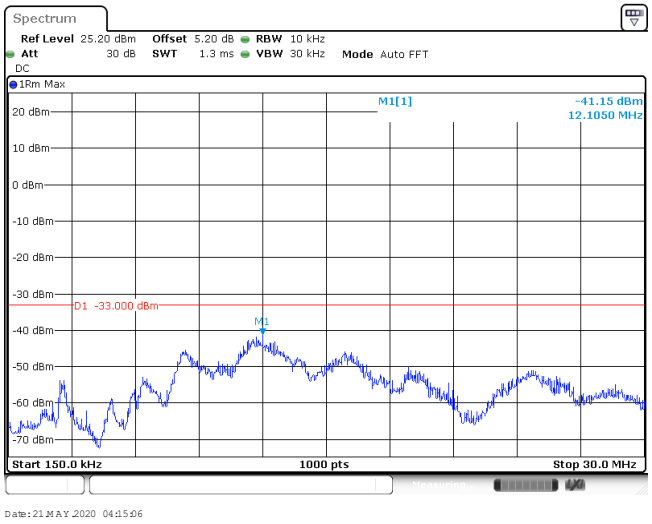

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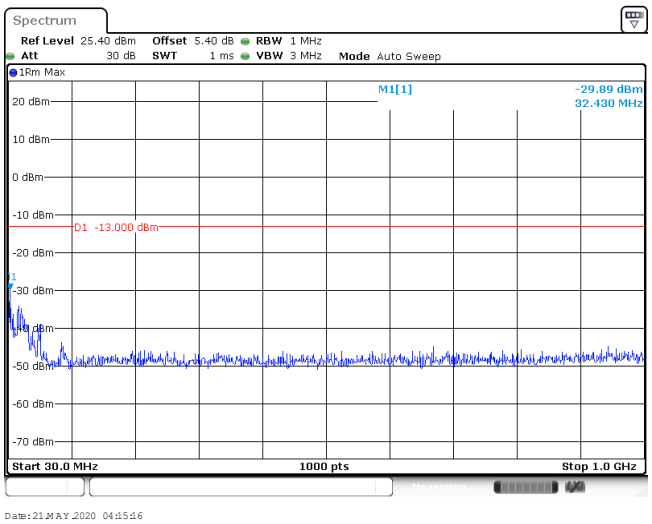

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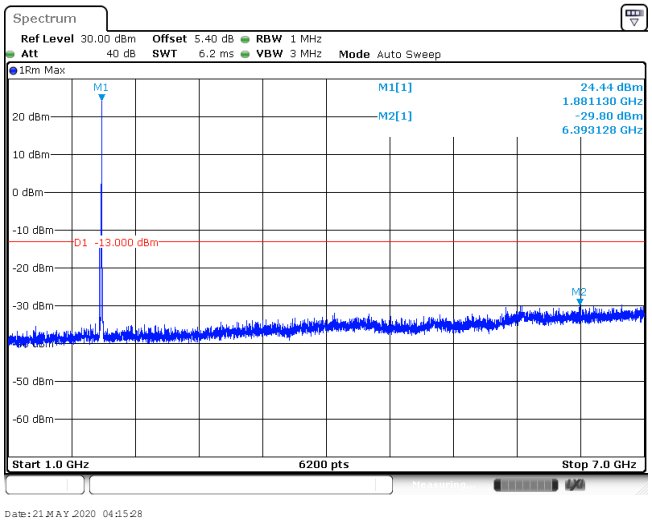

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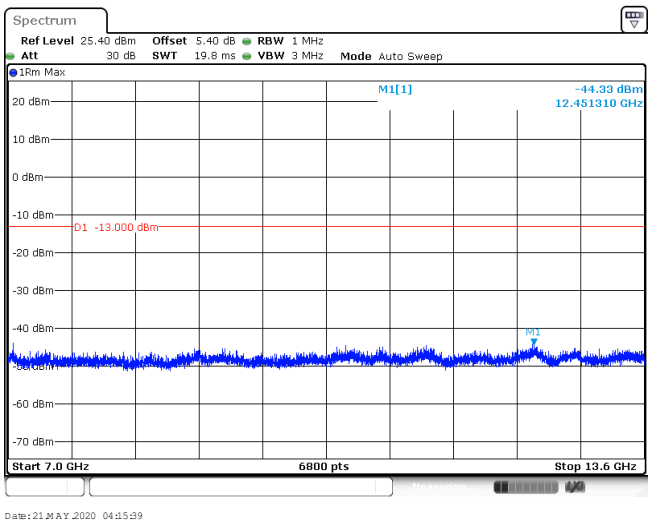

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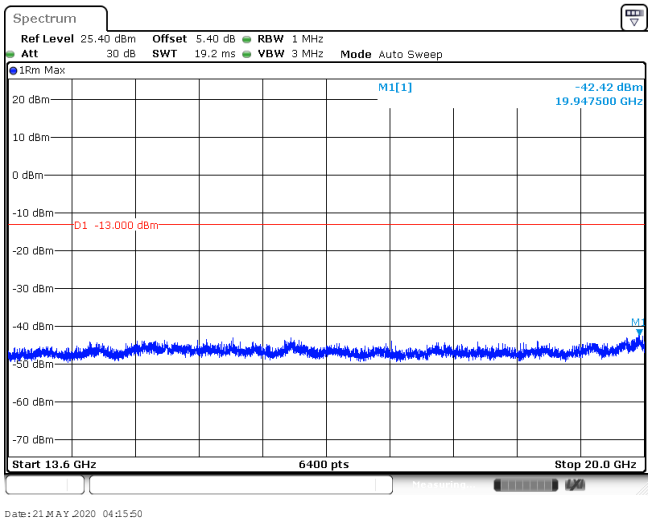

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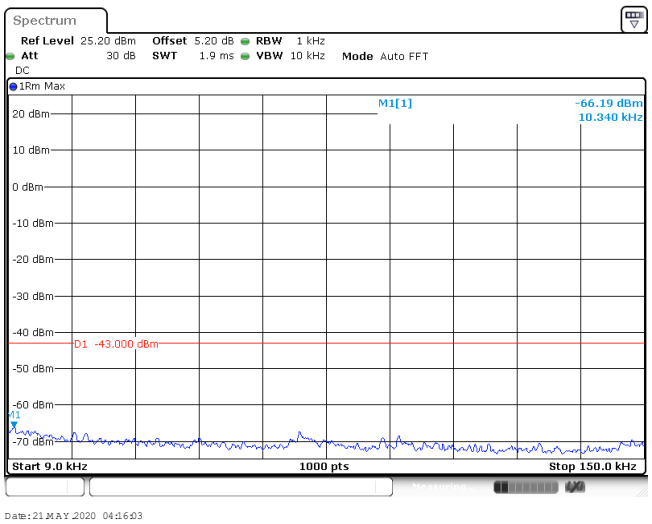

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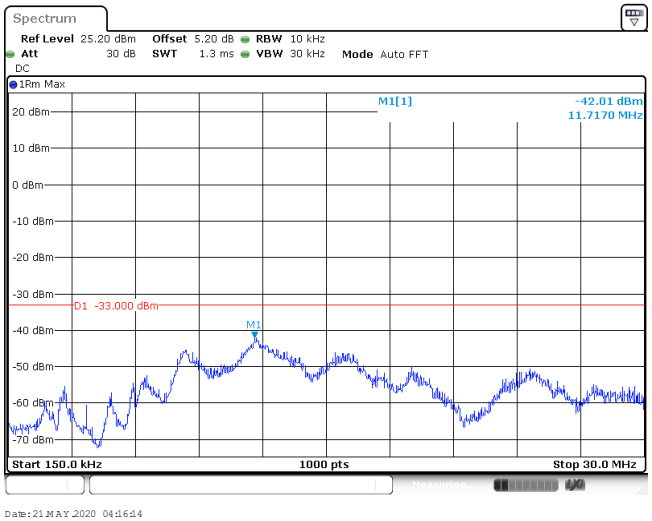

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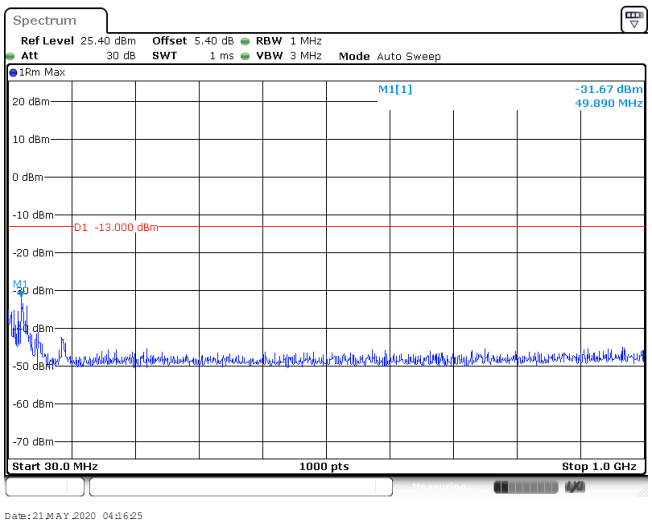

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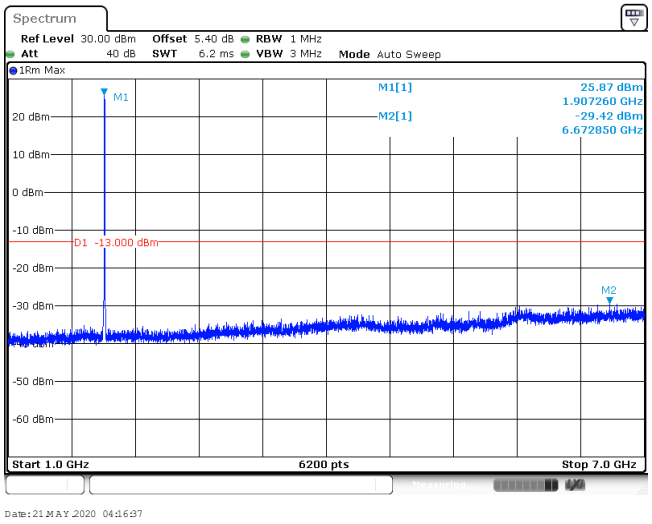

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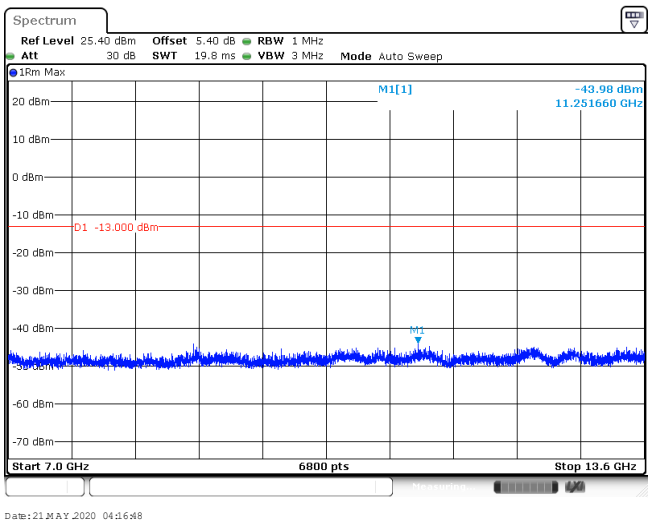

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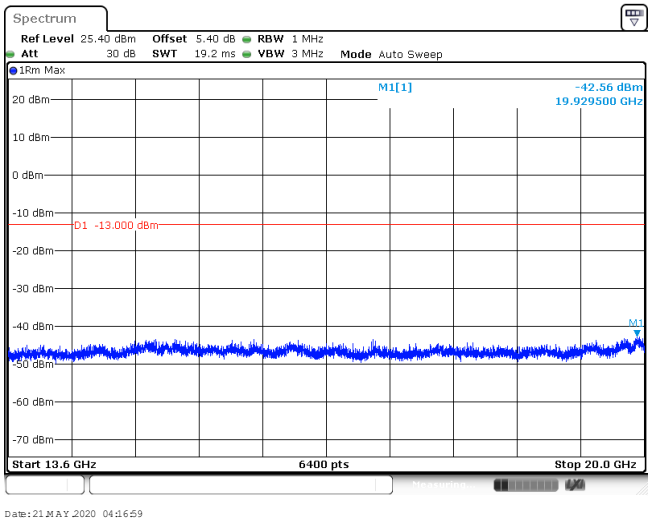

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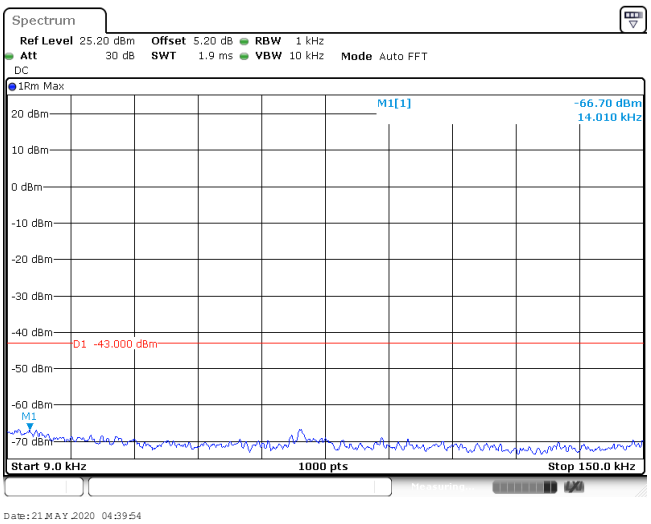

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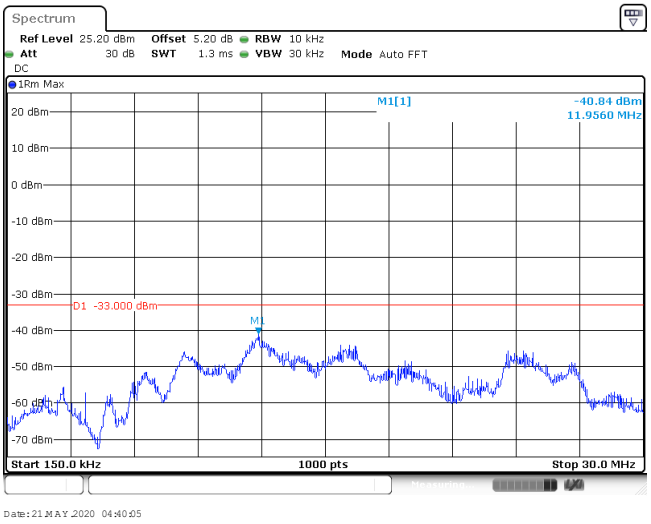

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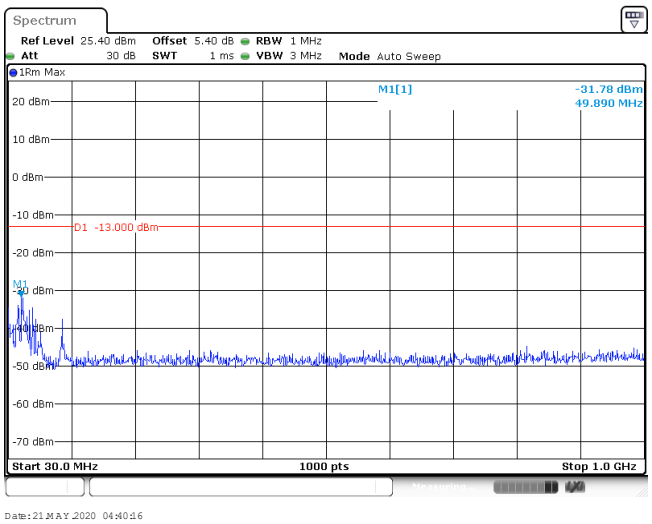

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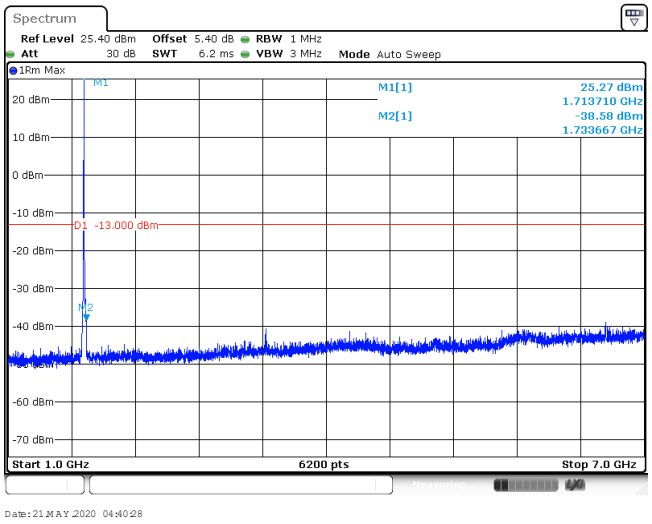

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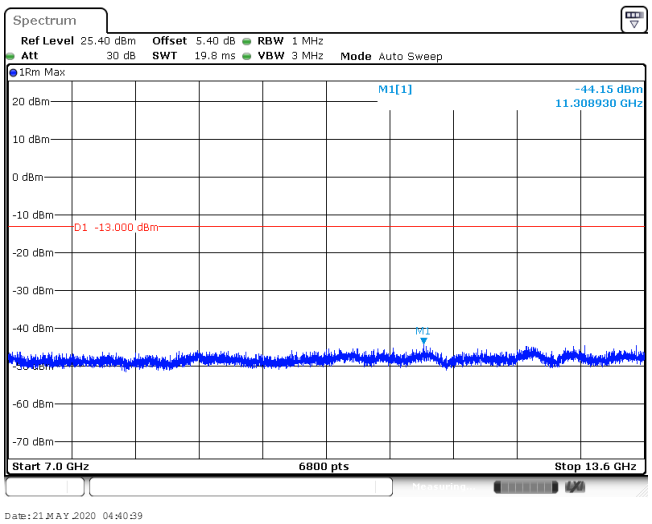

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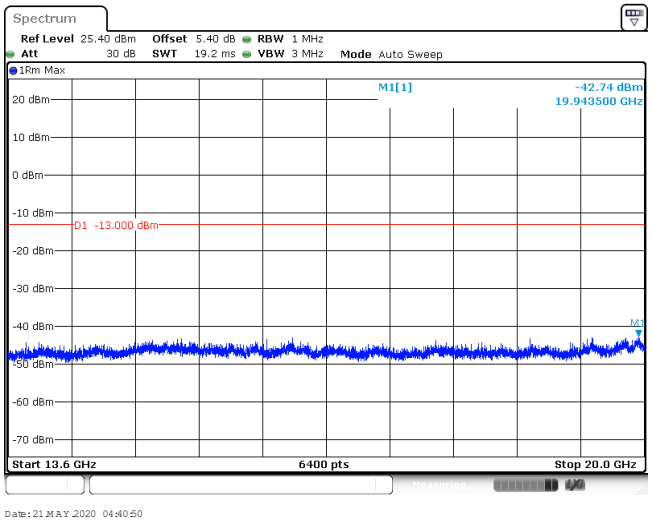

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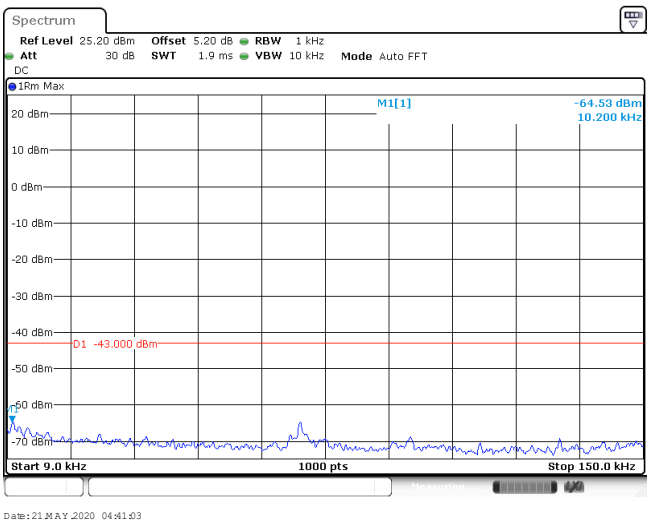

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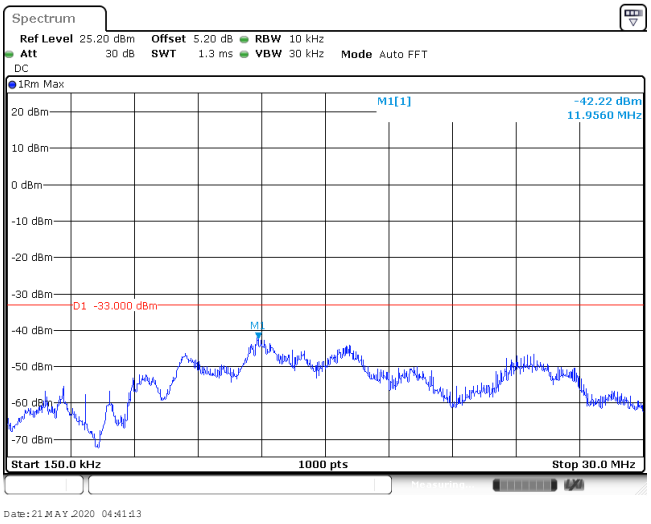

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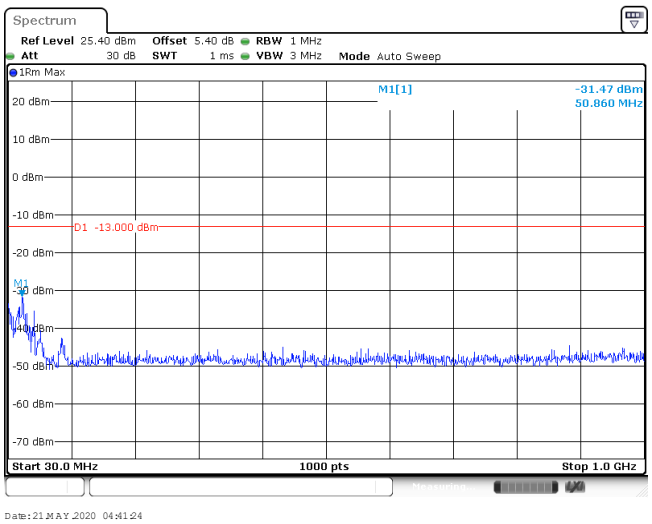

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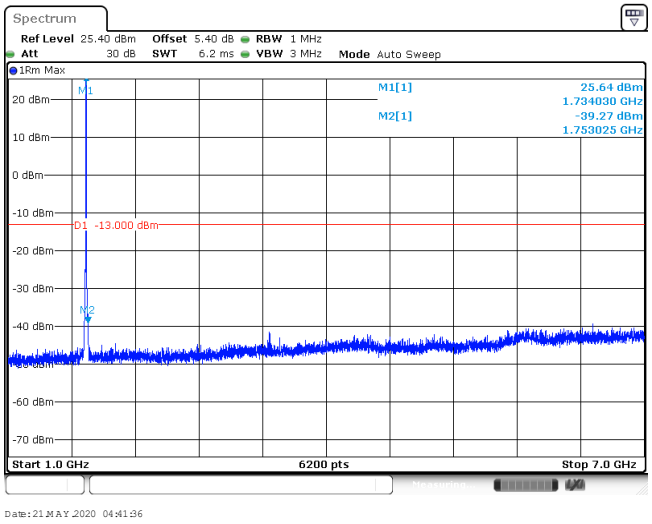

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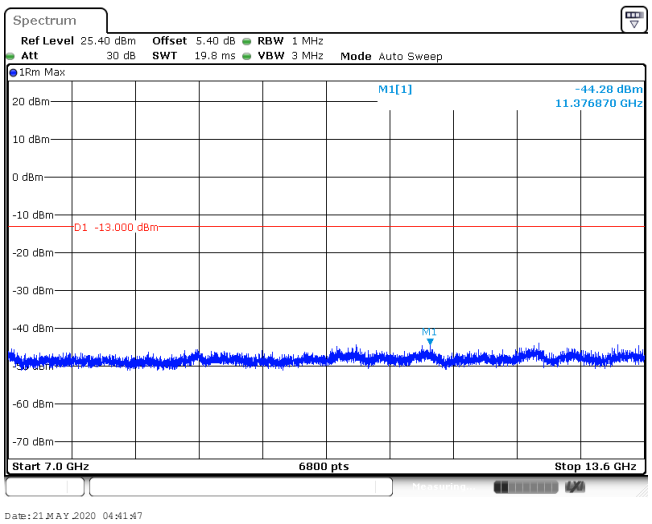

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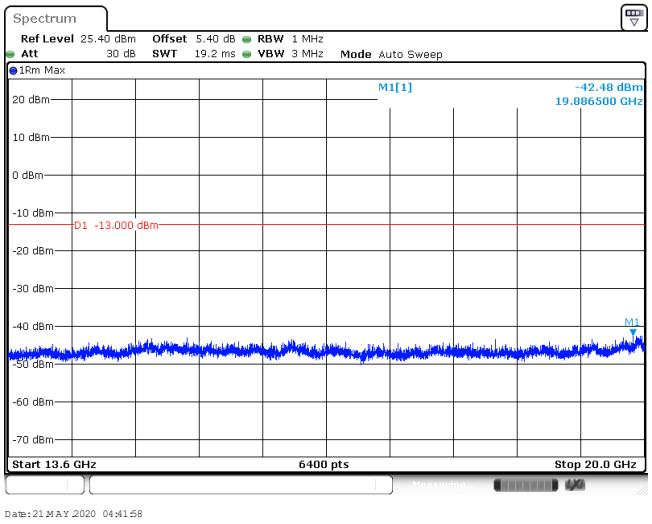

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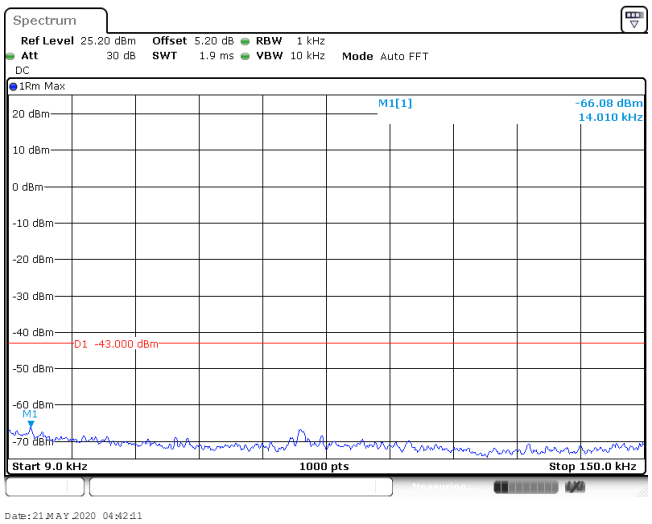

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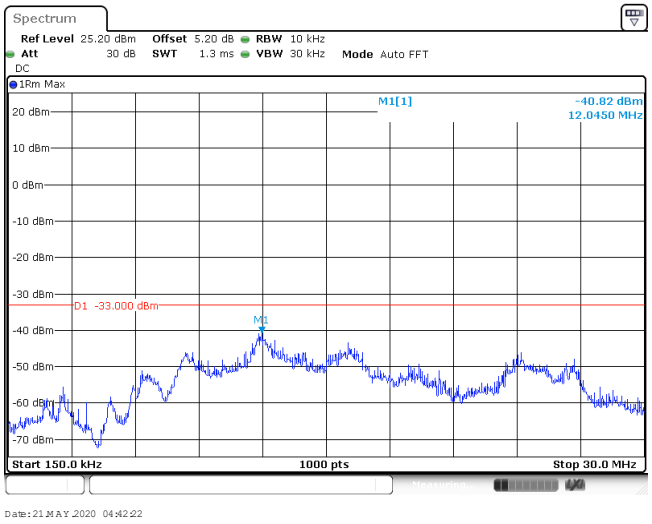

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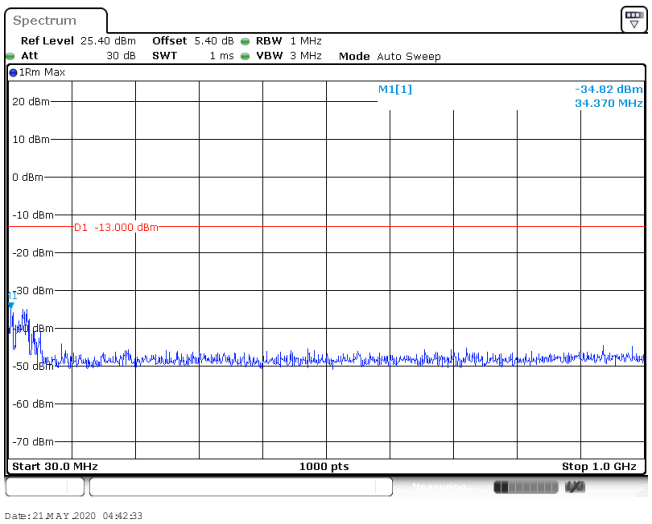

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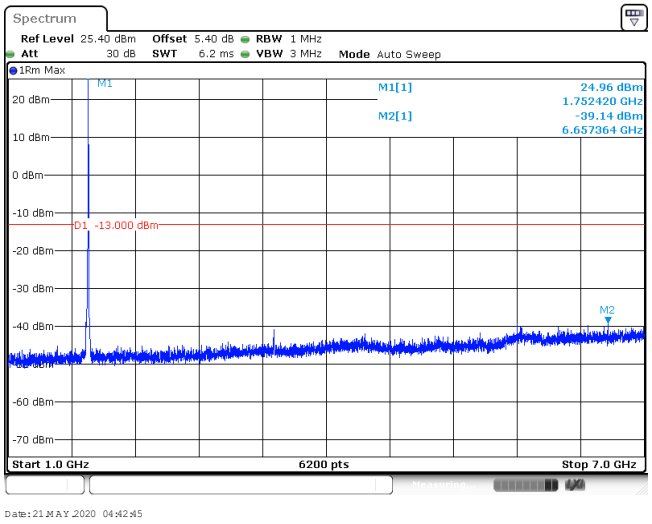

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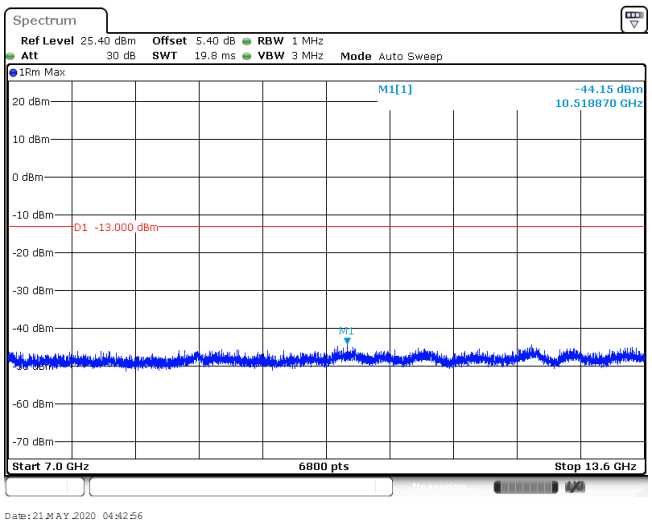

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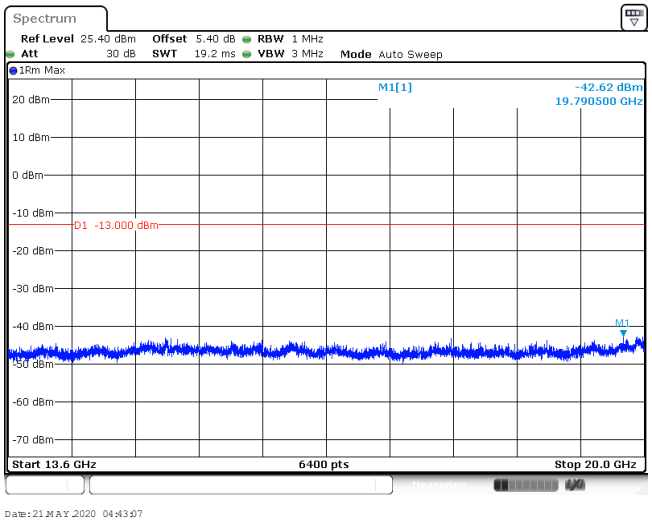

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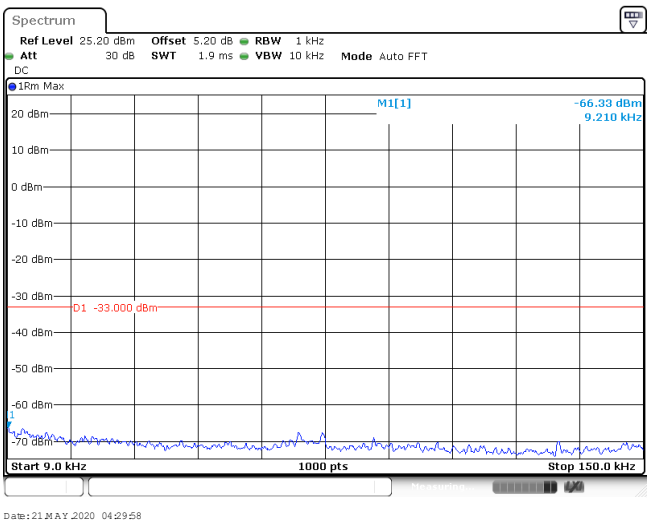

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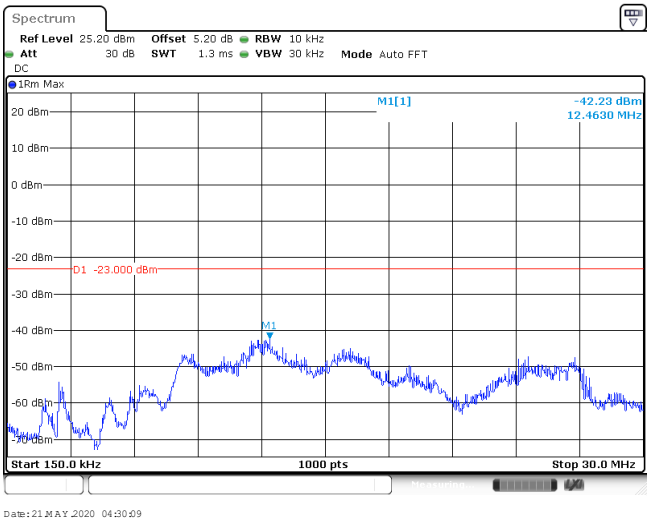

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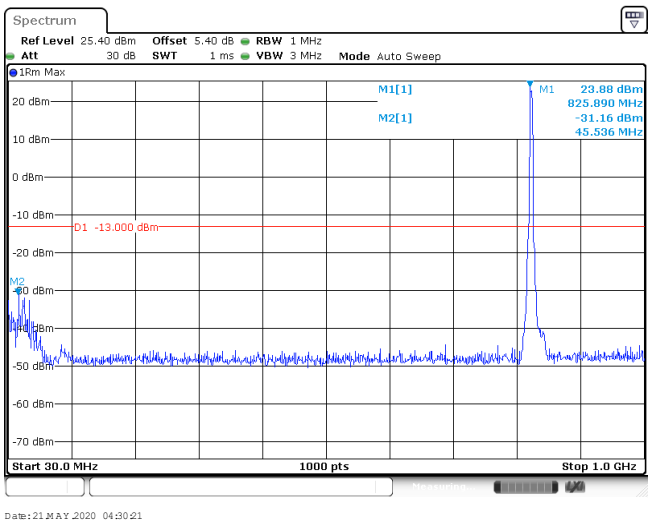

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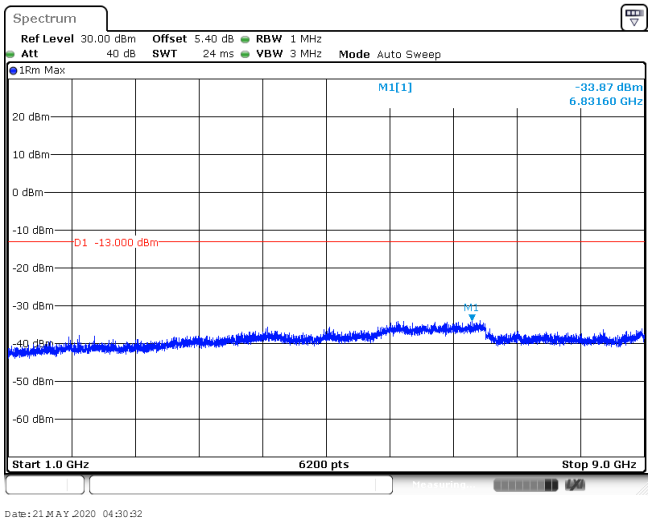

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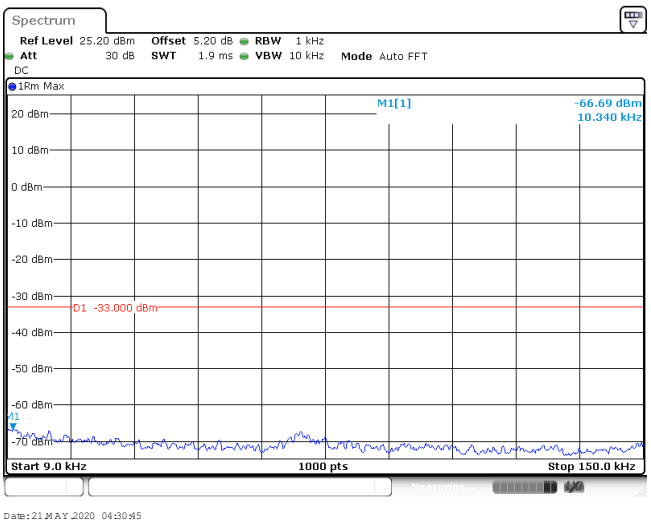

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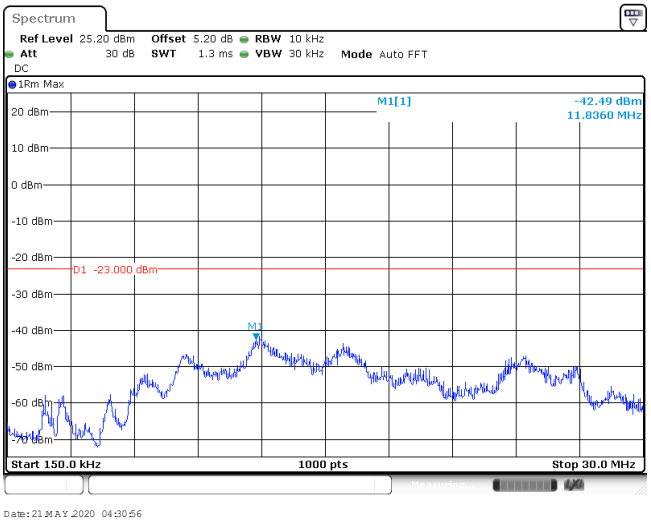

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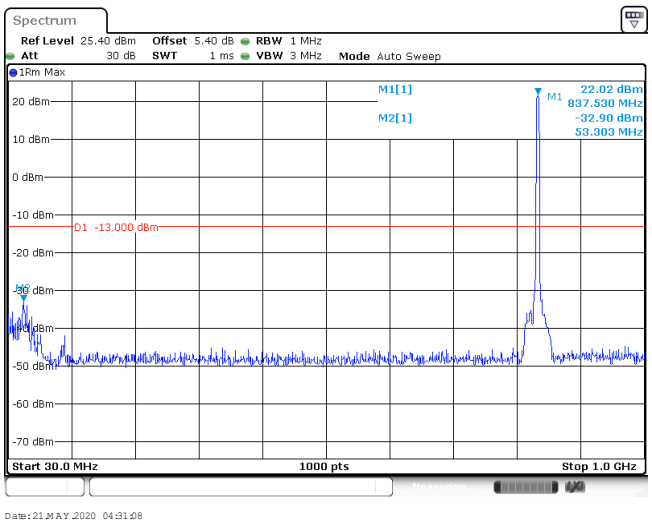

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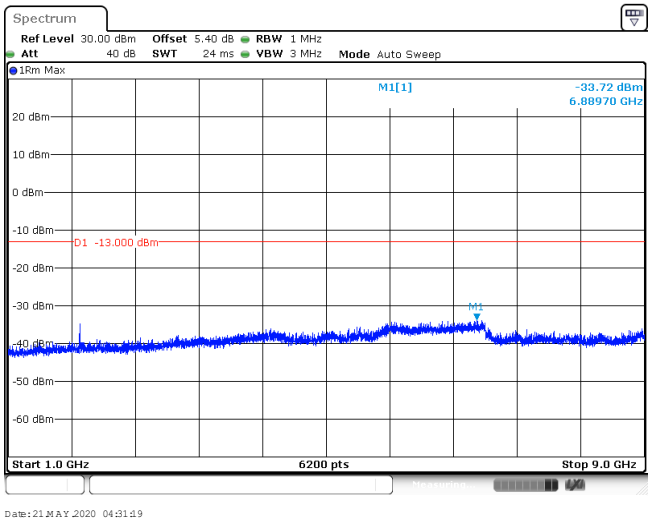

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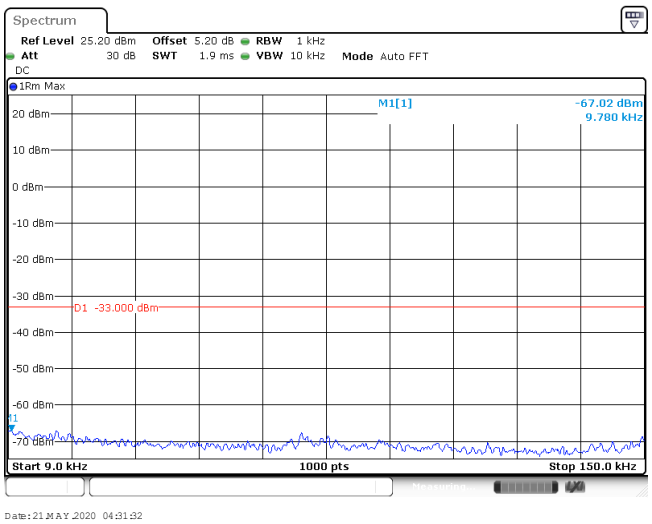

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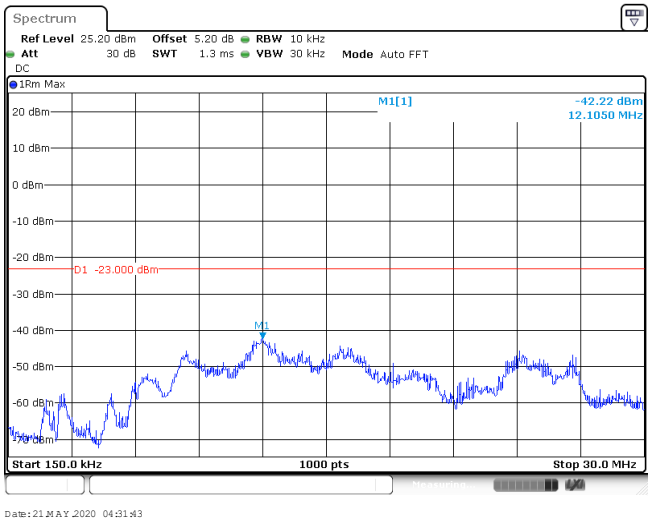

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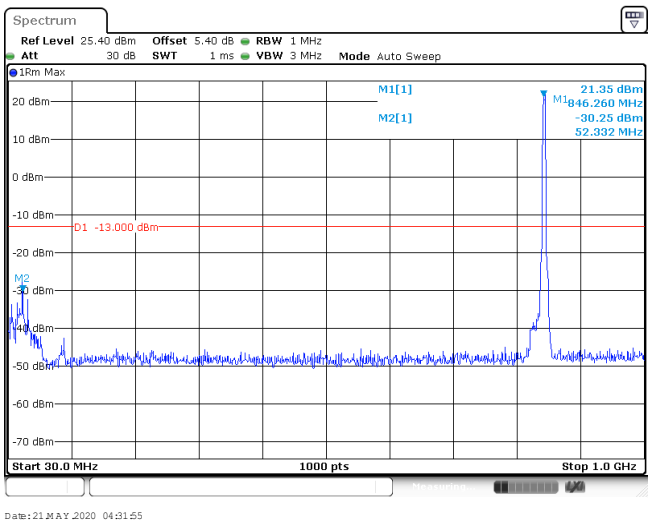
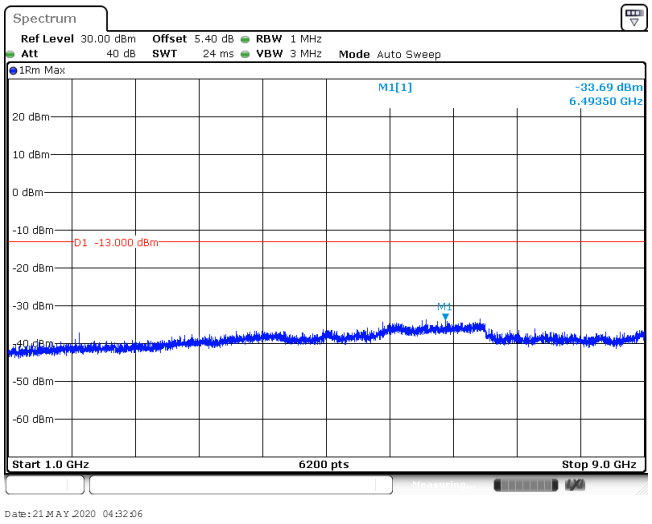


Band V_4233



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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
51.1956	-72.04	-13.00	59.04	Vertical
114.9277	-64.13	-13.00	51.13	Vertical
313.7392	-68.12	-13.00	55.12	Vertical
3703.0234	-56.71	-13.00	43.71	Vertical
5560.0853	-55.01	-13.00	42.01	Vertical
14480.3827	-47.50	-13.00	34.50	Vertical
39.6520	-63.48	-13.00	50.48	Horizontal
250.3950	-67.96	-13.00	54.96	Horizontal
597.6239	-63.44	-13.00	50.44	Horizontal
3706.5236	-54.59	-13.00	41.59	Horizontal
5560.5854	-56.40	-13.00	43.40	Horizontal
16382.4461	-44.05	-13.00	31.05	Horizontal

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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.1471	-72.89	-13.00	59.89	Vertical
109.9805	-64.84	-13.00	51.84	Vertical
393.1862	-67.70	-13.00	54.70	Vertical
3758.0253	-56.77	-13.00	43.77	Vertical
5637.5879	-56.13	-13.00	43.13	Vertical
14508.3836	-48.21	-13.00	35.21	Vertical
43.8232	-63.89	-13.00	50.89	Horizontal
233.1282	-67.68	-13.00	54.68	Horizontal
511.2411	-66.54	-13.00	53.54	Horizontal
3761.5254	-56.77	-13.00	43.77	Horizontal
5636.5879	-57.79	-13.00	44.79	Horizontal
16390.9464	-43.84	-13.00	30.84	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1770	-71.43	-13.00	58.43	Vertical
116.8193	-63.74	-13.00	50.74	Vertical
608.8279	-63.25	-13.00	50.25	Vertical
3817.0272	-54.55	-13.00	41.55	Vertical
5719.5907	-57.21	-13.00	44.21	Vertical
7625.6542	-56.07	-13.00	43.07	Vertical
42.8531	-64.83	-13.00	51.83	Horizontal
242.8286	-67.80	-13.00	54.80	Horizontal
569.9775	-64.60	-13.00	51.60	Horizontal
3813.5271	-54.96	-13.00	41.96	Horizontal
5725.0908	-57.28	-13.00	44.28	Horizontal
16408.4469	-44.12	-13.00	31.12	Horizontal

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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
46.2968	-72.52	-13.00	59.52	Vertical
110.7080	-61.91	-13.00	48.91	Vertical
342.5981	-65.85	-13.00	52.85	Vertical
3621.0207	-60.45	-13.00	47.45	Vertical
8578.1859	-52.78	-13.00	39.78	Vertical
17992.9998	-34.36	-13.00	21.36	Vertical
42.1256	-61.68	-13.00	48.68	Horizontal
240.5005	-64.99	-13.00	51.99	Horizontal
599.7580	-61.34	-13.00	48.34	Horizontal
5109.5703	-59.69	-13.00	46.69	Horizontal
10597.7533	-48.64	-13.00	35.64	Horizontal
16396.4465	-35.50	-13.00	22.50	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.8560	-70.21	-13.00	57.21	Vertical
110.1745	-62.28	-13.00	49.28	Vertical
685.4133	-59.81	-13.00	46.81	Vertical
3562.0187	-60.76	-13.00	47.76	Vertical
7453.6485	-53.14	-13.00	40.14	Vertical
17999.0000	-34.27	-13.00	21.27	Vertical
45.0358	-62.43	-13.00	49.43	Horizontal
233.8557	-65.11	-13.00	52.11	Horizontal
513.3752	-63.62	-13.00	50.62	Horizontal
5132.5711	-59.93	-13.00	46.93	Horizontal
9303.7101	-50.23	-13.00	37.23	Horizontal
16408.9470	-35.33	-13.00	22.33	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.2483	-71.28	-13.00	58.28	Vertical
113.4242	-62.34	-13.00	49.34	Vertical
539.2755	-63.15	-13.00	50.15	Vertical
3718.0239	-60.48	-13.00	47.48	Vertical
7995.1665	-53.13	-13.00	40.13	Vertical
17996.4999	-34.06	-13.00	21.06	Vertical
46.1998	-61.97	-13.00	48.97	Horizontal
242.5861	-65.47	-13.00	52.47	Horizontal
514.7332	-62.45	-13.00	49.45	Horizontal
3593.5198	-59.80	-13.00	46.80	Horizontal
9337.2112	-50.10	-13.00	37.10	Horizontal
16400.9467	-35.57	-13.00	22.57	Horizontal

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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
52.4566	-72.18	-13.00	59.18	Vertical
112.2601	-64.72	-13.00	51.72	Vertical
294.0472	-69.87	-13.00	56.87	Vertical
1654.5309	-59.64	-13.00	46.64	Vertical
2700.7401	-51.94	-13.00	38.94	Vertical
17998.5000	-40.18	-13.00	27.18	Vertical
40.7675	-63.01	-13.00	50.01	Horizontal
124.9192	-75.91	-13.00	62.91	Horizontal
229.7815	-67.96	-13.00	54.96	Horizontal
1651.3303	-56.21	-13.00	43.21	Horizontal
2708.3417	-50.84	-13.00	37.84	Horizontal
7475.6492	-56.54	-13.00	43.54	Horizontal

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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.8075	-71.70	-13.00	58.70	Vertical
115.2673	-64.43	-13.00	51.43	Vertical
449.7400	-67.71	-13.00	54.71	Vertical
1674.1348	-60.34	-13.00	47.34	Vertical
2697.5395	-51.99	-13.00	38.99	Vertical
7355.1452	-56.29	-13.00	43.29	Vertical
43.5322	-63.20	-13.00	50.20	Horizontal
101.0561	-75.34	-13.00	62.34	Horizontal
237.5904	-68.58	-13.00	55.58	Horizontal
1674.1348	-58.74	-13.00	45.74	Horizontal
2699.9400	-50.91	-13.00	37.91	Horizontal
9317.2106	-52.94	-13.00	39.94	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.3757	-65.14	-13.00	52.14	Vertical
466.5703	-66.44	-13.00	53.44	Vertical
2703.1406	-51.96	-13.00	38.96	Vertical
7365.6455	-56.07	-13.00	43.07	Vertical
14476.3825	-48.34	-13.00	35.34	Vertical
17994.9998	-39.94	-13.00	26.94	Vertical
42.1741	-64.39	-13.00	51.39	Horizontal
233.6617	-67.98	-13.00	54.98	Horizontal
2698.7397	-50.84	-13.00	37.84	Horizontal
7467.1489	-56.92	-13.00	43.92	Horizontal
16402.4467	-43.78	-13.00	30.78	Horizontal
17997.9999	-45.56	-13.00	32.56	Horizontal

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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	3.54	0.001911	±2.5	PASS
Band II	9262	VN	TN	8.56	0.004621	±2.5	PASS
Band II	9262	VH	TN	9.55	0.005158	±2.5	PASS
Band II	9400	VL	TN	-9.42	-0.005010	±2.5	PASS
Band II	9400	VN	TN	-7.77	-0.004135	±2.5	PASS
Band II	9400	VH	TN	3.40	0.001811	±2.5	PASS
Band II	9538	VL	TN	-9.02	-0.004727	±2.5	PASS
Band II	9538	VN	TN	7.57	0.003966	±2.5	PASS
Band II	9538	VH	TN	12.77	0.006696	±2.5	PASS
Band IV	1312	VL	TN	9.34	0.005457	±2.5	PASS
Band IV	1312	VN	TN	-2.42	-0.001412	±2.5	PASS
Band IV	1312	VH	TN	4.39	0.002565	±2.5	PASS
Band IV	1413	VL	TN	10.82	0.006246	±2.5	PASS
Band IV	1413	VN	TN	-6.01	-0.003466	±2.5	PASS
Band IV	1413	VH	TN	4.67	0.002694	±2.5	PASS
Band IV	1513	VL	TN	10.63	0.006065	±2.5	PASS
Band IV	1513	VN	TN	5.42	0.003093	±2.5	PASS
Band IV	1513	VH	TN	-13.50	-0.007701	±2.5	PASS
Band V	4132	VL	TN	-3.03	-0.003670	±2.5	PASS
Band V	4132	VN	TN	-10.07	-0.012189	±2.5	PASS
Band V	4132	VH	TN	-7.82	-0.009460	±2.5	PASS
Band V	4182	VL	TN	-12.65	-0.015124	±2.5	PASS
Band V	4182	VN	TN	-2.95	-0.003523	±2.5	PASS
Band V	4182	VH	TN	12.10	0.014468	±2.5	PASS
Band V	4233	VL	TN	11.89	0.014042	±2.5	PASS
Band V	4233	VN	TN	-13.09	-0.015463	±2.5	PASS
Band V	4233	VH	TN	-11.84	-0.013982	±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	4.51	0.002435	±2.5	PASS
Band II	9262	VN	-20	9.94	0.005368	±2.5	PASS
Band II	9262	VN	-10	-12.85	-0.006940	±2.5	PASS
Band II	9262	VN	0	1.45	0.000783	±2.5	PASS
Band II	9262	VN	10	-5.67	-0.003062	±2.5	PASS
Band II	9262	VN	20	9.62	0.005194	±2.5	PASS
Band II	9262	VN	30	-13.71	-0.007399	±2.5	PASS
Band II	9262	VN	40	-14.05	-0.007583	±2.5	PASS
Band II	9262	VN	50	9.17	0.004948	±2.5	PASS
Band II	9400	VN	-30	12.50	0.006650	±2.5	PASS
Band II	9400	VN	-20	-14.73	-0.007836	±2.5	PASS
Band II	9400	VN	-10	12.10	0.006434	±2.5	PASS
Band II	9400	VN	0	-14.98	-0.007969	±2.5	PASS
Band II	9400	VN	10	-8.75	-0.004652	±2.5	PASS
Band II	9400	VN	20	-0.90	-0.000476	±2.5	PASS
Band II	9400	VN	30	-5.47	-0.002911	±2.5	PASS
Band II	9400	VN	40	10.15	0.005397	±2.5	PASS
Band II	9400	VN	50	9.43	0.005018	±2.5	PASS
Band II	9538	VN	-30	-1.04	-0.000543	±2.5	PASS
Band II	9538	VN	-20	-8.40	-0.004405	±2.5	PASS
Band II	9538	VN	-10	-7.41	-0.003885	±2.5	PASS
Band II	9538	VN	0	7.54	0.003952	±2.5	PASS
Band II	9538	VN	10	-2.79	-0.001463	±2.5	PASS
Band II	9538	VN	20	-11.98	-0.006279	±2.5	PASS
Band II	9538	VN	30	-5.72	-0.002999	±2.5	PASS
Band II	9538	VN	40	-5.48	-0.002871	±2.5	PASS
Band II	9538	VN	50	5.44	0.002851	±2.5	PASS
Band IV	1312	VN	-30	1.62	0.000946	±2.5	PASS
Band IV	1312	VN	-20	-7.58	-0.004428	±2.5	PASS
Band IV	1312	VN	-10	7.81	0.004563	±2.5	PASS
Band IV	1312	VN	0	-3.23	-0.001885	±2.5	PASS
Band IV	1312	VN	10	-7.01	-0.004095	±2.5	PASS

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Band IV	1312	VN	20	3.65	0.002129	±2.5	PASS
Band IV	1312	VN	30	-7.15	-0.004177	±2.5	PASS
Band IV	1312	VN	40	-1.58	-0.000925	±2.5	PASS
Band IV	1312	VN	50	7.04	0.004114	±2.5	PASS
Band IV	1413	VN	-30	4.21	0.002429	±2.5	PASS
Band IV	1413	VN	-20	-10.74	-0.006197	±2.5	PASS
Band IV	1413	VN	-10	-8.83	-0.005099	±2.5	PASS
Band IV	1413	VN	0	-7.78	-0.004488	±2.5	PASS
Band IV	1413	VN	10	12.42	0.007166	±2.5	PASS
Band IV	1413	VN	20	-4.85	-0.002799	±2.5	PASS
Band IV	1413	VN	30	2.43	0.001400	±2.5	PASS
Band IV	1413	VN	40	3.35	0.001932	±2.5	PASS
Band IV	1413	VN	50	-2.07	-0.001193	±2.5	PASS
Band IV	1513	VN	-30	-10.65	-0.006076	±2.5	PASS
Band IV	1513	VN	-20	-4.33	-0.002473	±2.5	PASS
Band IV	1513	VN	-10	13.25	0.007560	±2.5	PASS
Band IV	1513	VN	0	-8.66	-0.004942	±2.5	PASS
Band IV	1513	VN	10	-4.97	-0.002835	±2.5	PASS
Band IV	1513	VN	20	-10.12	-0.005773	±2.5	PASS
Band IV	1513	VN	30	-0.25	-0.000145	±2.5	PASS
Band IV	1513	VN	40	1.94	0.001106	±2.5	PASS
Band IV	1513	VN	50	-9.42	-0.005375	±2.5	PASS
Band V	4132	VN	-30	-4.01	-0.004852	±2.5	PASS
Band V	4132	VN	-20	-11.68	-0.014129	±2.5	PASS
Band V	4132	VN	-10	3.63	0.004392	±2.5	PASS
Band V	4132	VN	0	-6.66	-0.008059	±2.5	PASS
Band V	4132	VN	10	-11.92	-0.014429	±2.5	PASS
Band V	4132	VN	20	-5.28	-0.006384	±2.5	PASS
Band V	4132	VN	30	-9.05	-0.010953	±2.5	PASS
Band V	4132	VN	40	-10.09	-0.012215	±2.5	PASS
Band V	4132	VN	50	-12.23	-0.014802	±2.5	PASS
Band V	4182	VN	-30	14.61	0.017464	±2.5	PASS
Band V	4182	VN	-20	-6.77	-0.008094	±2.5	PASS
Band V	4182	VN	-10	6.16	0.007366	±2.5	PASS
Band V	4182	VN	0	-7.77	-0.009291	±2.5	PASS
Band V	4182	VN	10	1.42	0.001699	±2.5	PASS
Band V	4182	VN	20	0.34	0.000411	±2.5	PASS

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Band V	4182	VN	30	7.39	0.008832	±2.5	PASS
Band V	4182	VN	40	1.20	0.001429	±2.5	PASS
Band V	4182	VN	50	-8.14	-0.009729	±2.5	PASS
Band V	4233	VN	-30	11.76	0.013886	±2.5	PASS
Band V	4233	VN	-20	9.69	0.011447	±2.5	PASS
Band V	4233	VN	-10	-6.02	-0.007116	±2.5	PASS
Band V	4233	VN	0	-5.92	-0.006987	±2.5	PASS
Band V	4233	VN	10	8.64	0.010209	±2.5	PASS
Band V	4233	VN	20	7.24	0.008547	±2.5	PASS
Band V	4233	VN	30	10.11	0.011939	±2.5	PASS
Band V	4233	VN	40	2.16	0.002549	±2.5	PASS
Band V	4233	VN	50	-9.69	-0.011444	±2.5	PASS

The End

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