



Appendix B

WCDMA Band II & IV & 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.....	10
3.1.	TEST BAND = WCDMA BAND II.....	10
3.1.1.	TEST MODE = UMTS/TM1.....	10
3.1.1.1.	TEST CHANNEL = MCH.....	10
3.2.	TEST BAND = WCDMA BAND IV.....	11
3.2.1.	TEST MODE = UMTS/TM1.....	11
3.2.1.1.	TEST CHANNEL = MCH.....	11
3.3.	TEST BAND = WCDMA BAND V.....	12
3.3.1.	TEST MODE = UMTS/TM1.....	12
3.3.1.1.	TEST CHANNEL = MCH.....	12
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	13
4.1.	TEST RESULT.....	13
4.2.	TEST PLOTS.....	13
5.	BAND EDGE COMPLIANCE.....	18
5.1.	TEST PLOTS.....	18
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	21
6.1.	TEST PLOTS.....	21
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	45
7.1.	TEST BAND = WCDMA BAND II.....	45
7.1.1.	TEST MODE =WCDMA/TM1.....	45
7.1.1.1.	TEST CHANNEL = LCH.....	45
7.1.1.2.	TEST CHANNEL = MCH.....	45
7.1.1.3.	TEST CHANNEL = HCH.....	46



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7.2. TEST BAND = WCDMA BAND IV46

7.2.1. TEST MODE =WCDMA/TM1.....46

7.2.1.1. TEST CHANNEL = LCH46

7.2.1.2. TEST CHANNEL = MCH47

7.2.1.3. TEST CHANNEL = HCH47

7.3. TEST BAND = WCDMA BAND V48

7.3.1. TEST MODE =WCDMA/TM1.....48

7.3.1.1. TEST CHANNEL = LCH48

7.3.1.2. TEST CHANNEL = MCH48

7.3.1.3. TEST CHANNEL = HCH49

8. FREQUENCY STABILITY50

8.1. FREQUENCY VS VOLTAGE50

8.2. FREQUENCY VS TEMPERATURE51



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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	23.18	22.98	33.00	PASS
Band II	9400	23.19	22.99	33.00	PASS
Band II	9538	23.29	23.09	33.00	PASS
Band IV	4132	22.37	22.34	30.00	PASS
Band IV	4182	22.34	22.31	30.00	PASS
Band IV	4233	22.26	22.23	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.18	19.63	38.45	PASS
Band V	4182	23.12	19.57	38.45	PASS
Band V	4233	23.33	19.78	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



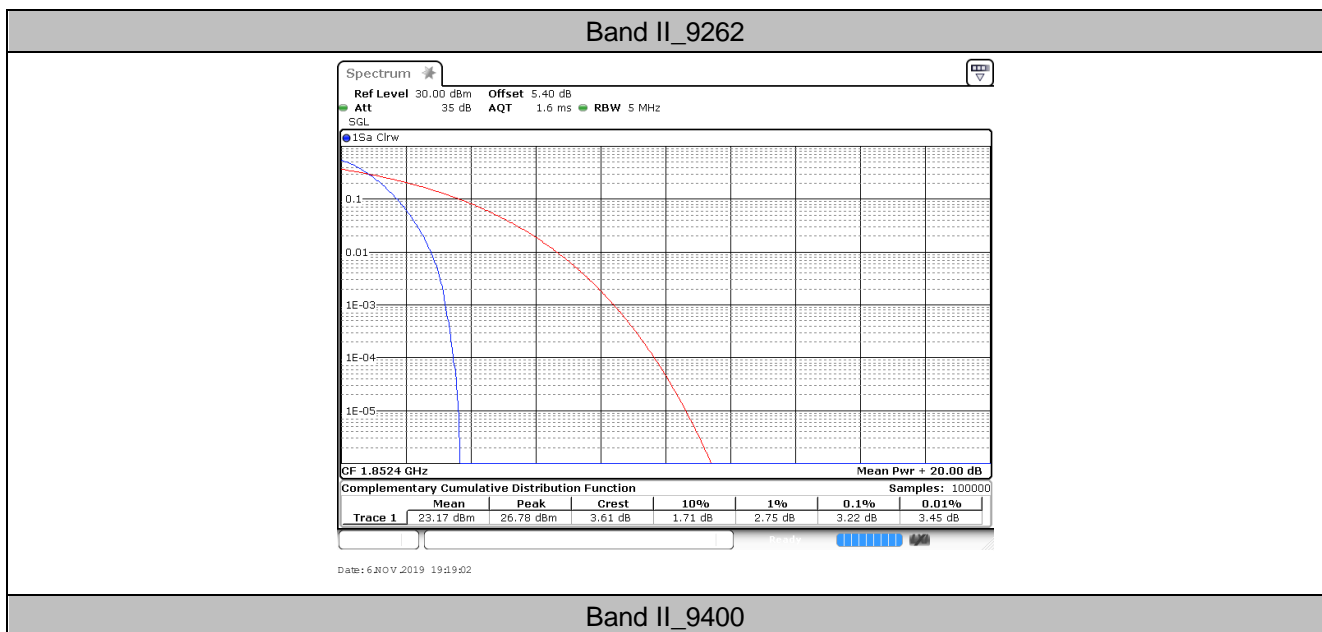
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

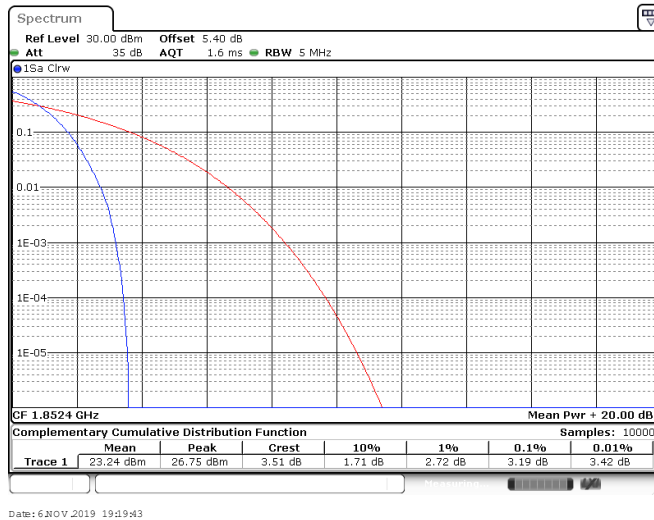
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.22	13	PASS
Band II	9400	3.19	13	PASS
Band II	9538	3.13	13	PASS
Band IV	1312	3.68	13	PASS
Band IV	1413	3.30	13	PASS
Band IV	1513	3.45	13	PASS
Band V	4132	3.28	13	PASS
Band V	4182	3.48	13	PASS
Band V	4233	3.51	13	PASS

2.2. Test Plots



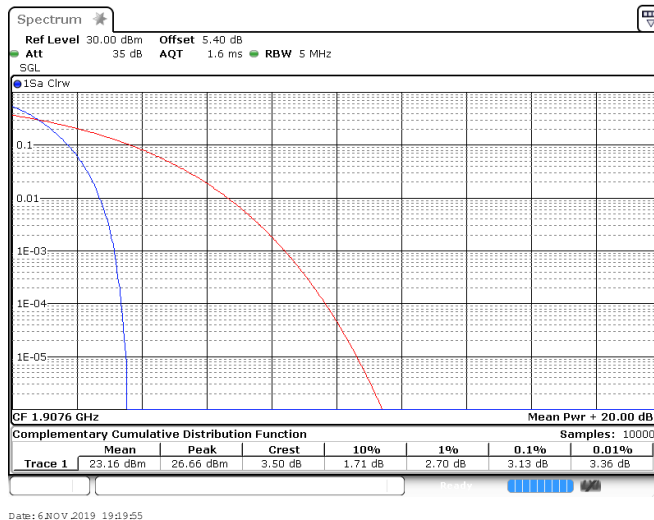
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Band II_9538



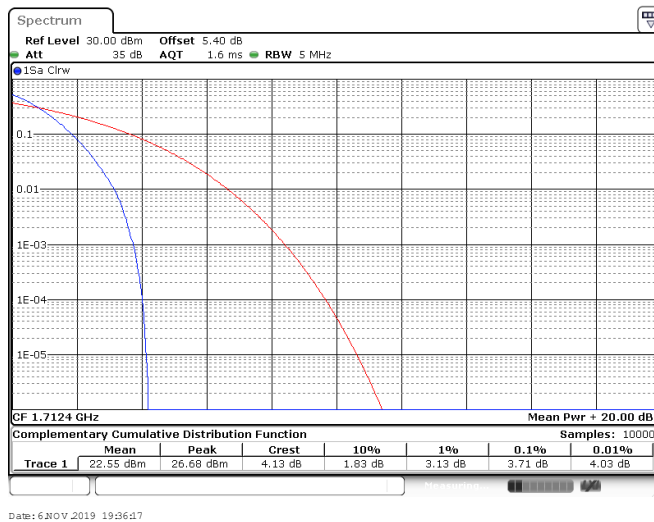
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Band IV_1312



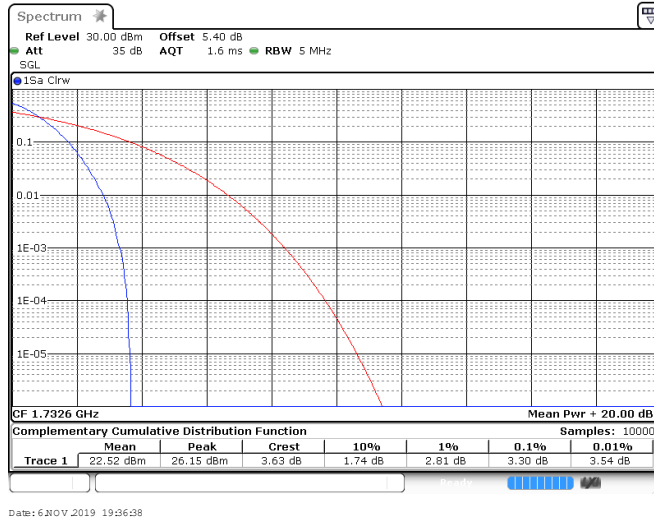
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Band IV_1413

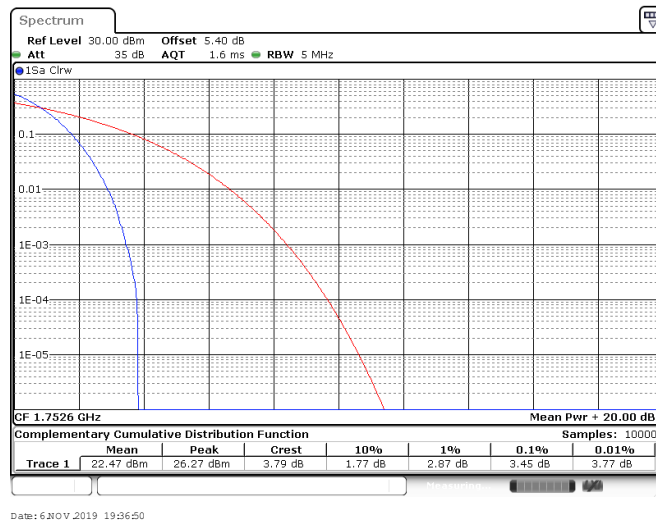


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Band IV_1513

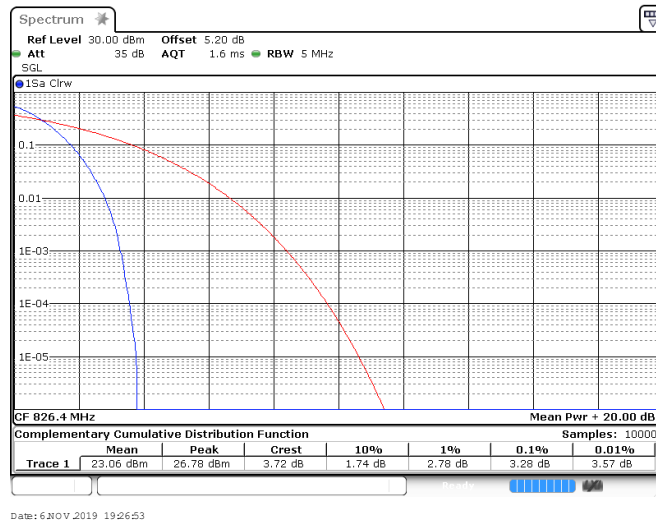


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Band V_4132

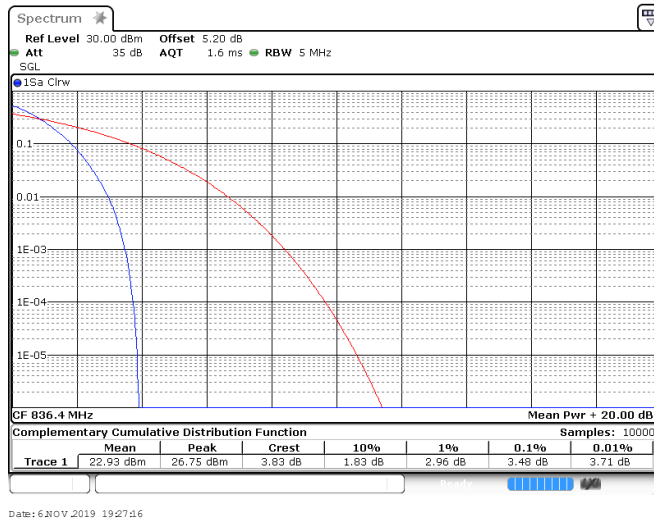


Date: 6 NOV 2019 19:26:53

Band V_4182

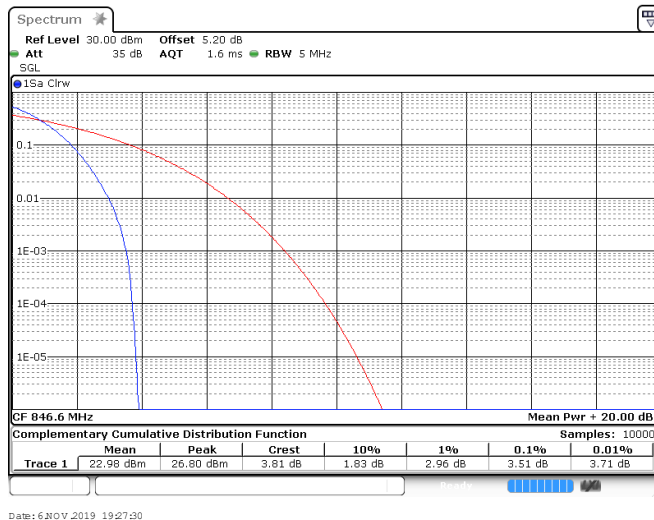


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Band V_4233



Date: 6 NOV 2019 19:27:30



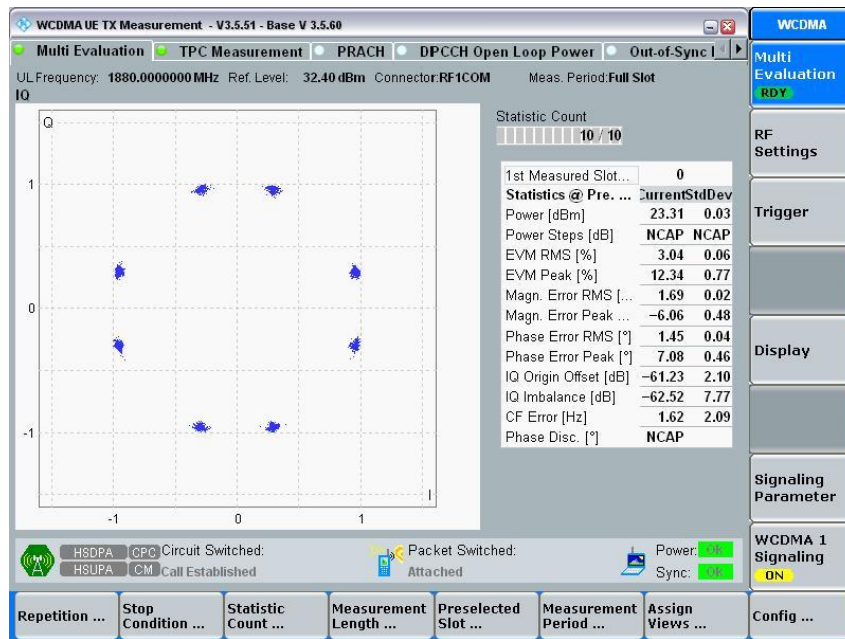
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



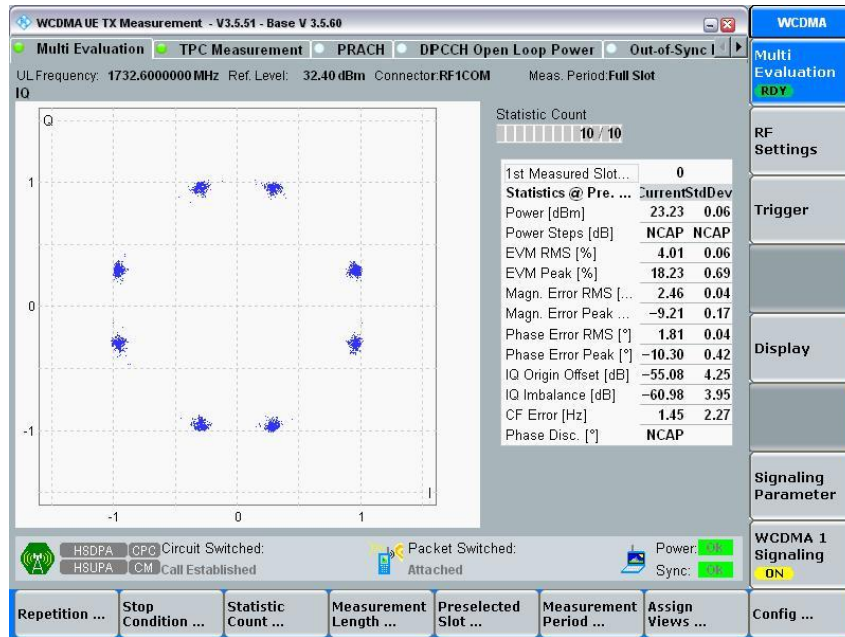
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



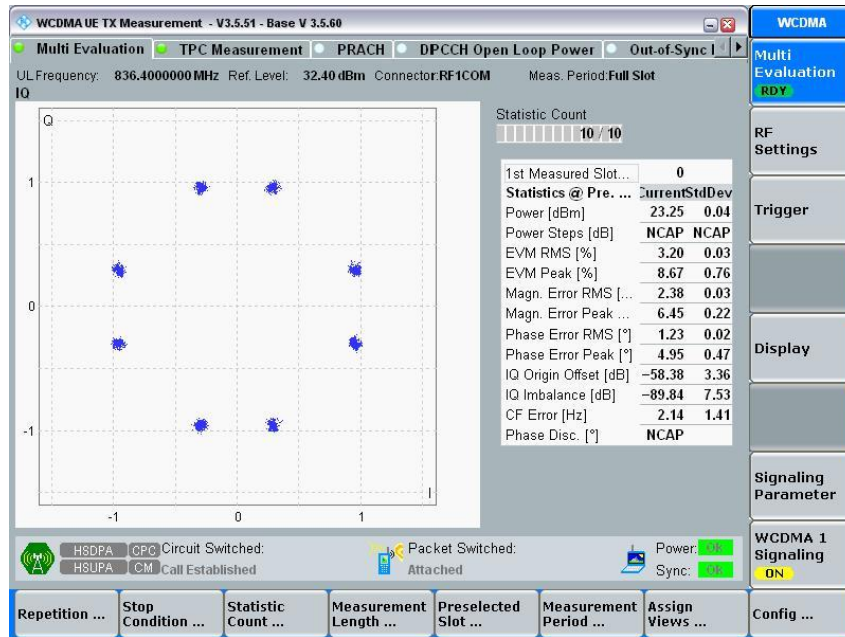
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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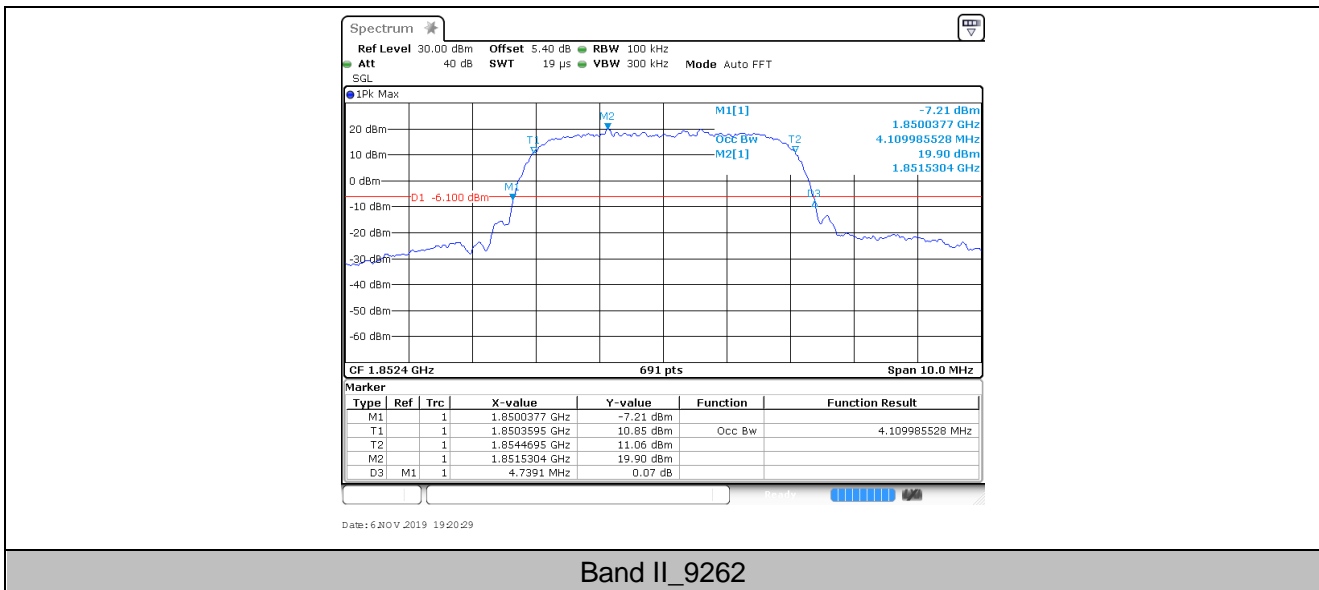
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

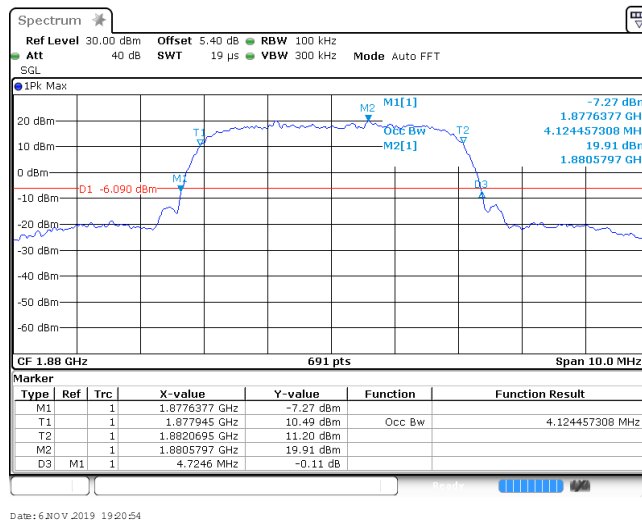
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4110.0	4739	---	PASS
Band II	9400	4124.5	4725	---	PASS
Band II	9538	4110.0	4725	---	PASS
Band IV	1312	4124.5	4710	---	PASS
Band IV	1413	4124.5	4725	---	PASS
Band IV	1513	4124.5	4725	---	PASS
Band V	4132	4110.0	4710	---	PASS
Band V	4182	4124.5	4710	---	PASS
Band V	4233	4124.5	4725	---	PASS

4.2. Test Plots



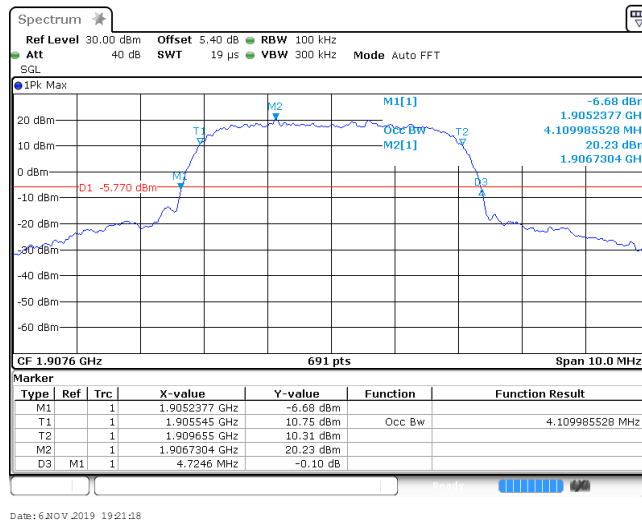
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Band II_9400

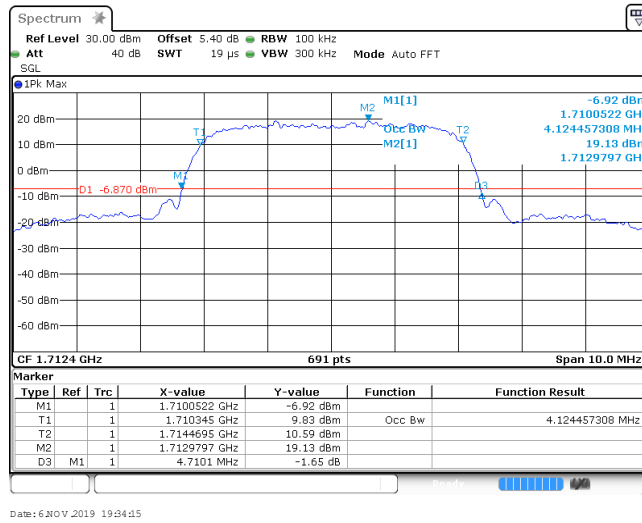


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Band II_9538

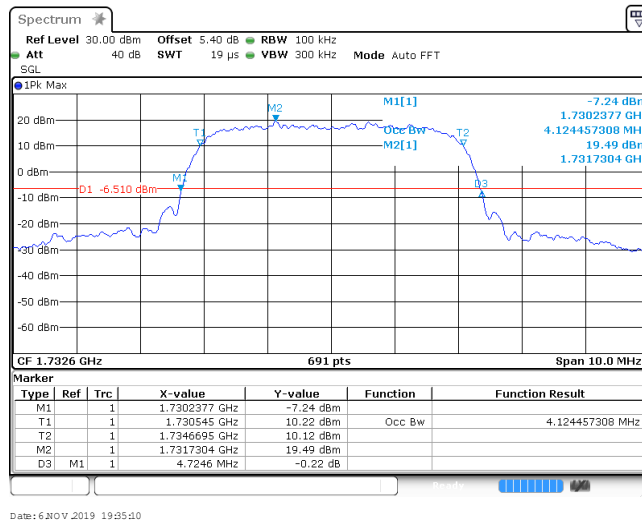


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Band IV_1312



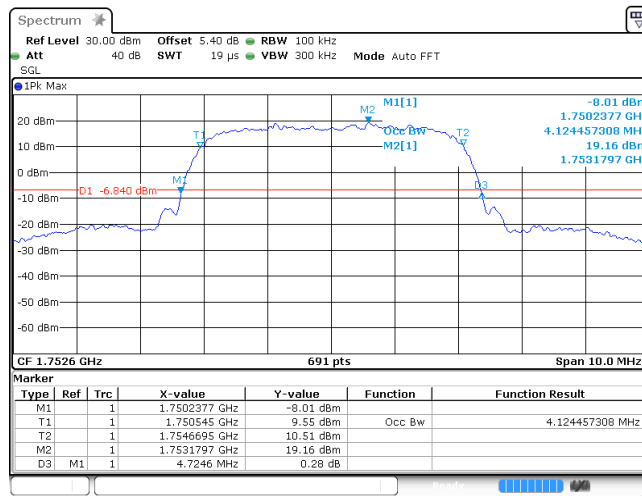
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Band IV_1413



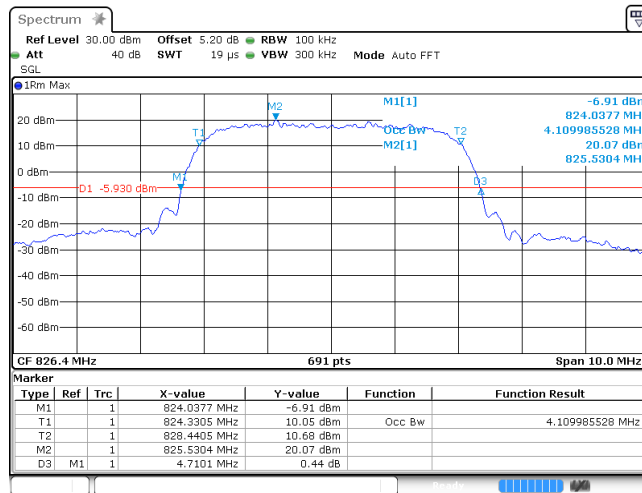
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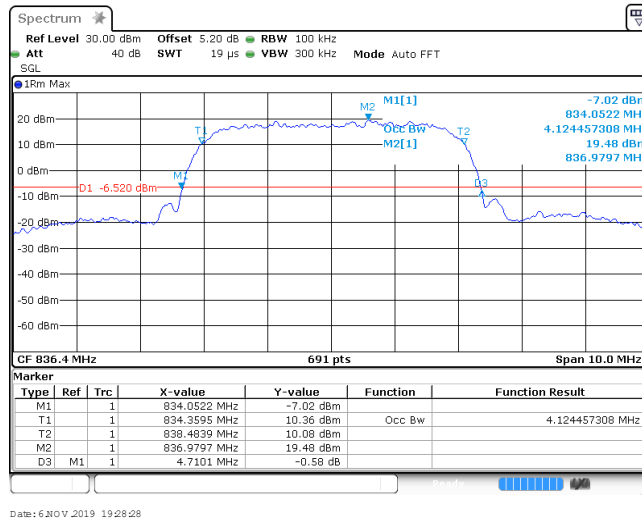


Date: 6 NOV 2019 19:28:04

Band V_4132

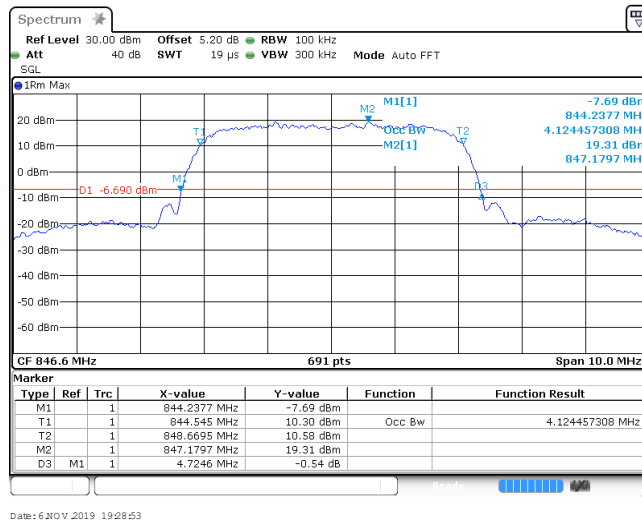


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Date: 6 NOV 2019 19:28:53

Band V_4233

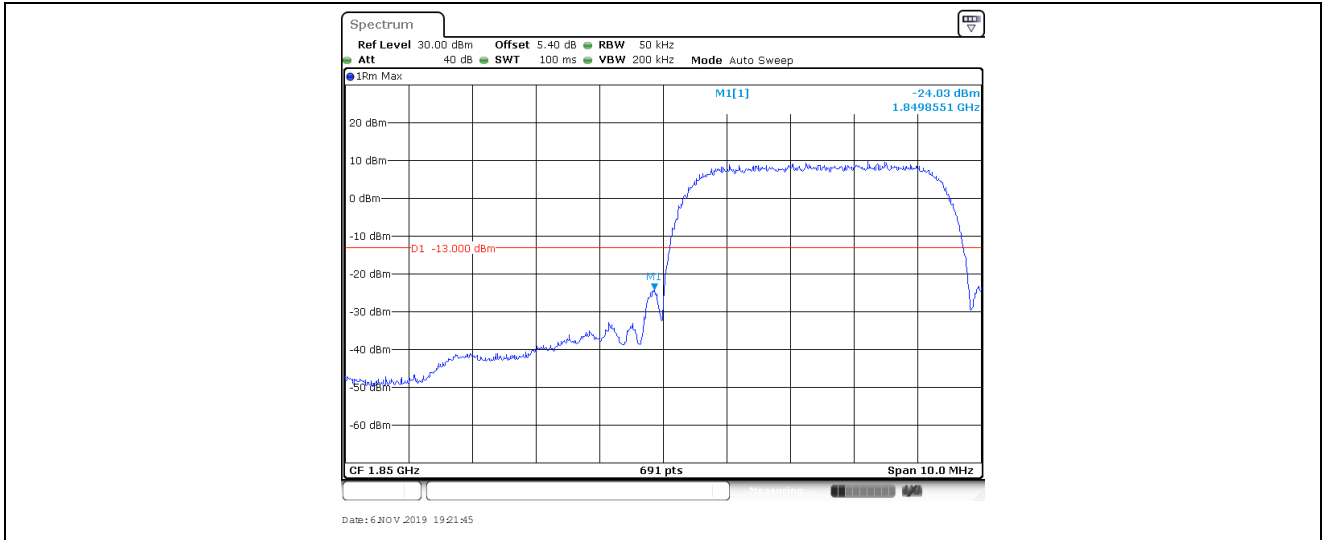


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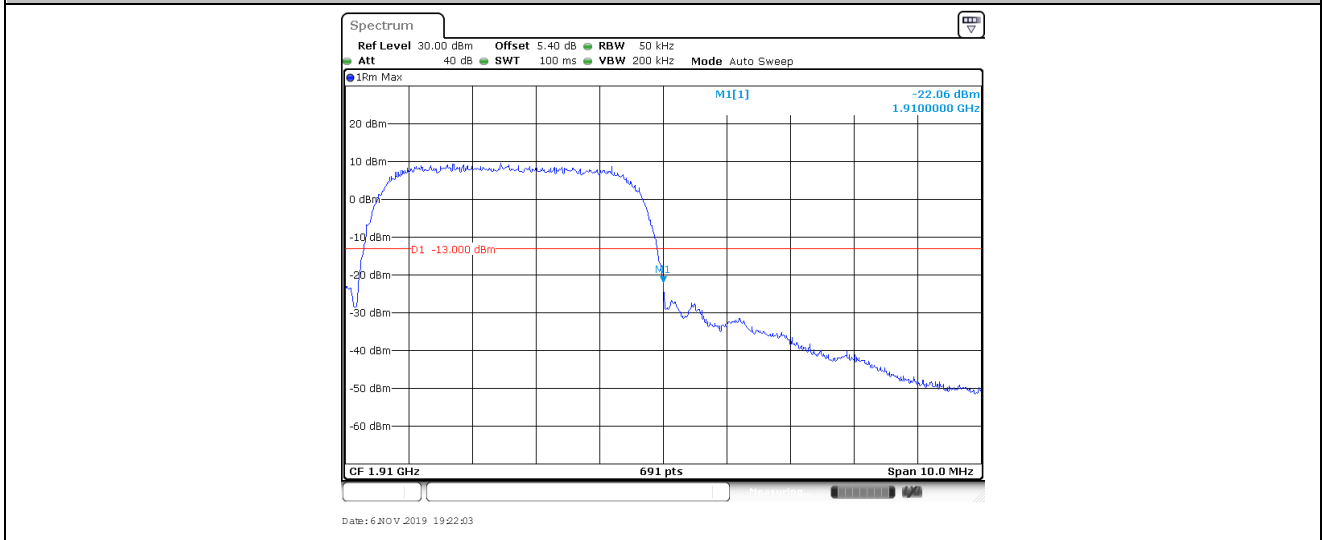
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5. Band Edge Compliance

5.1. Test Plots



Band II_9262

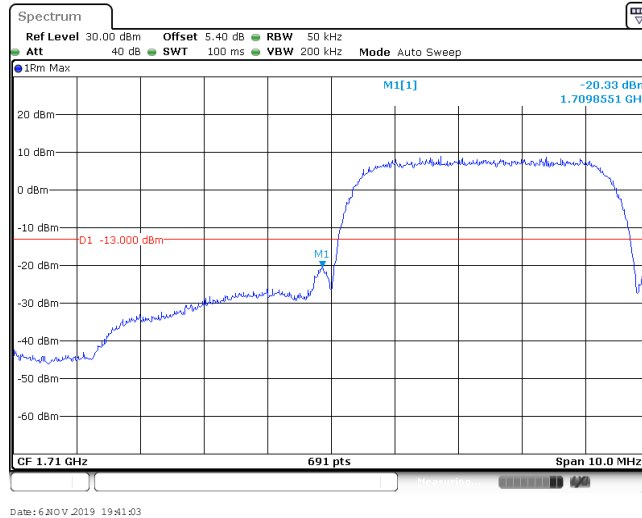


Band II_9538

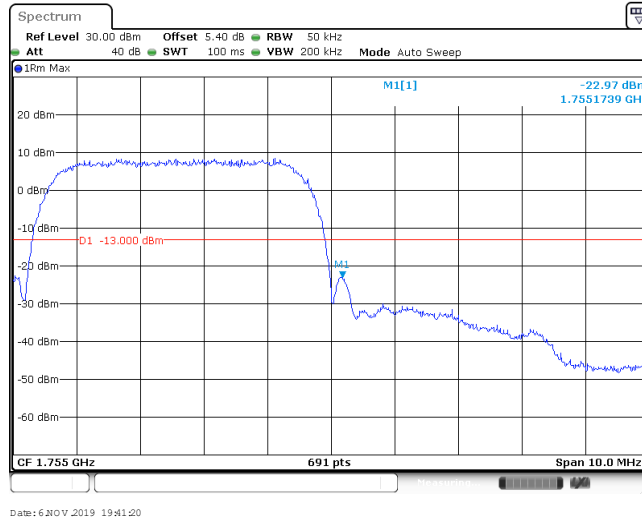


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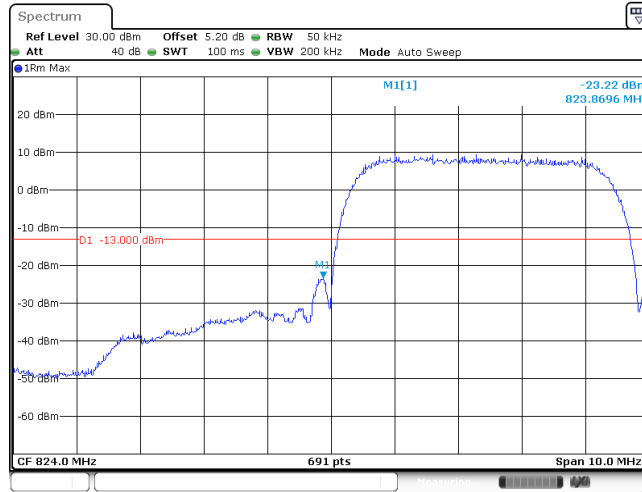


Band IV_1513



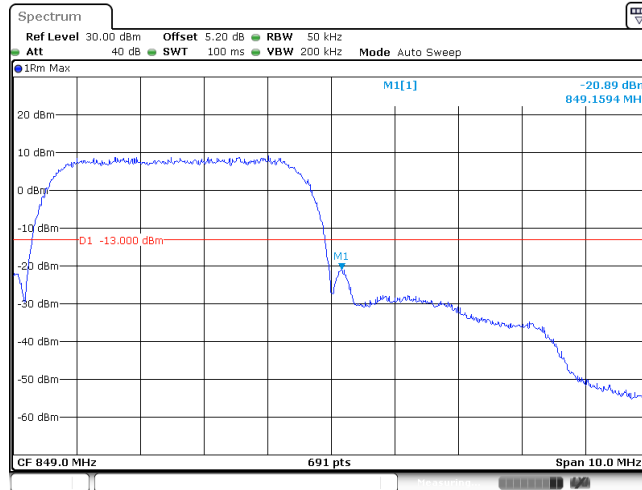
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Band V_4132



Date: 6 NOV 2019 19:29:39

Band V_4233



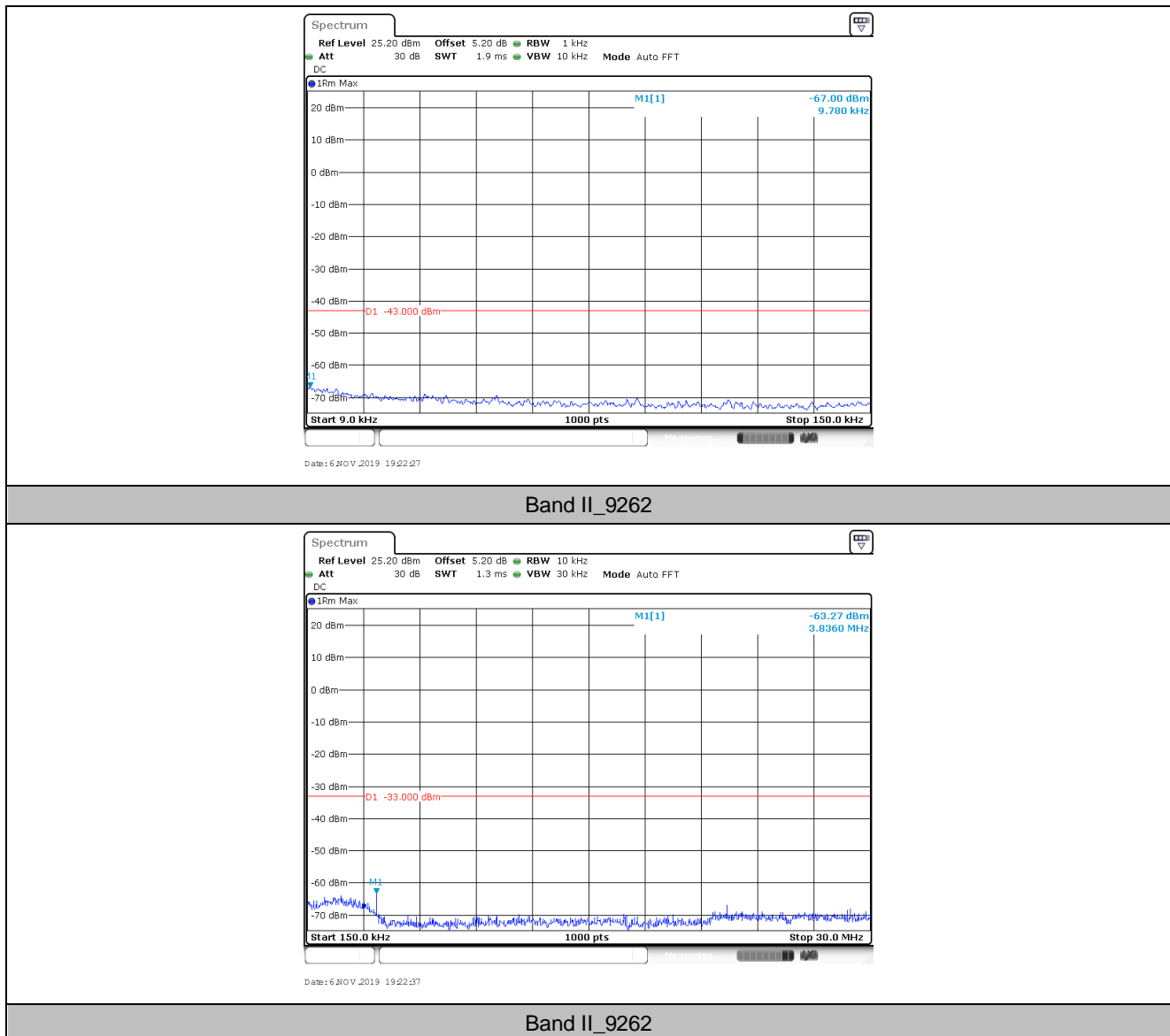
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6. Spurious Emission at Antenna Terminal

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.

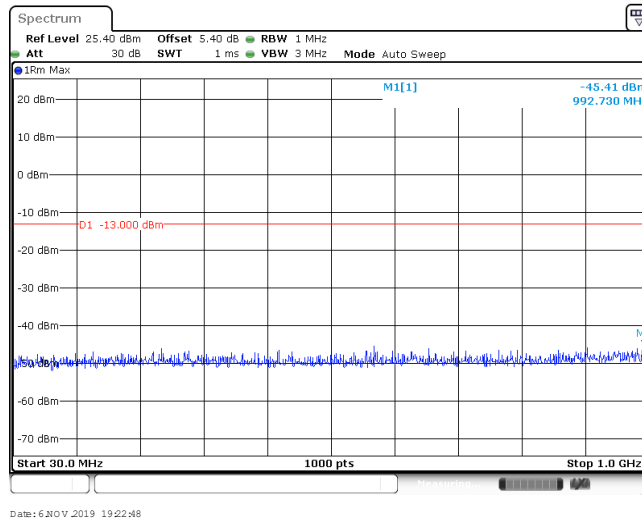
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

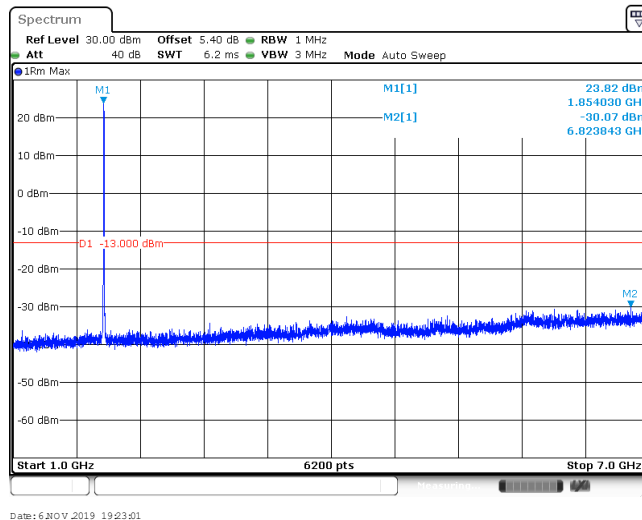


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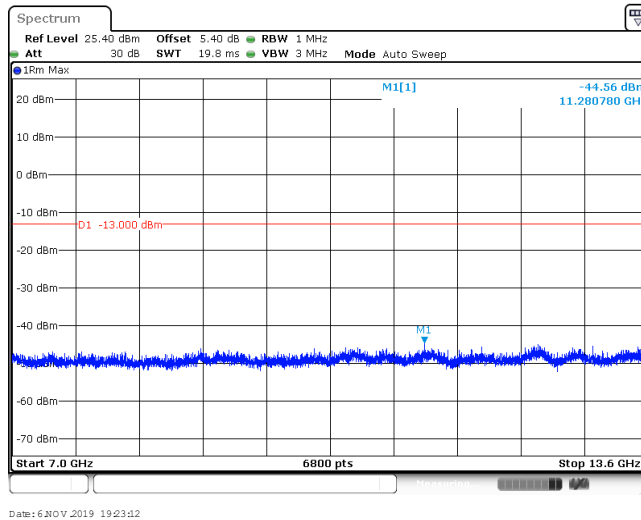
Band II_9262



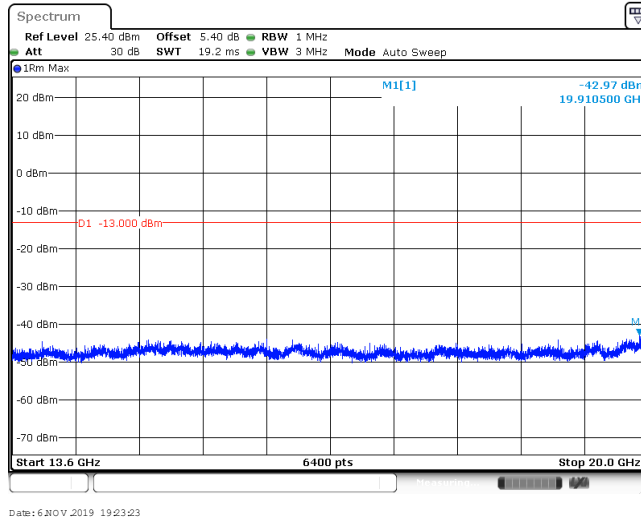
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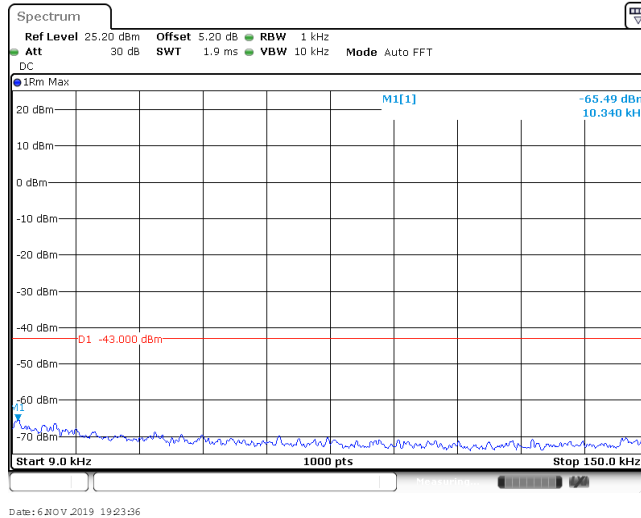
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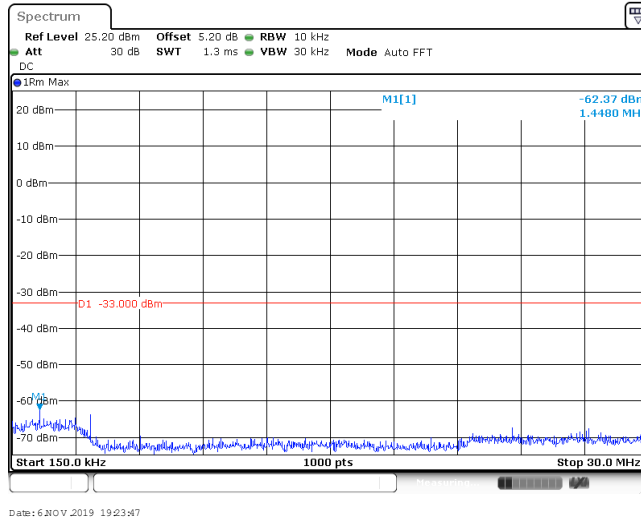
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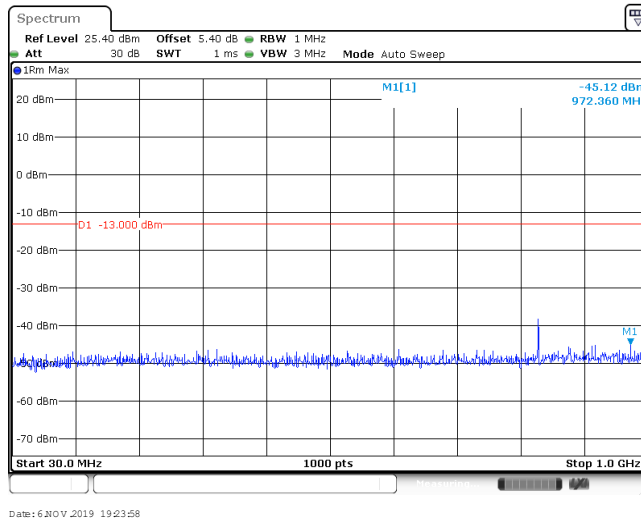
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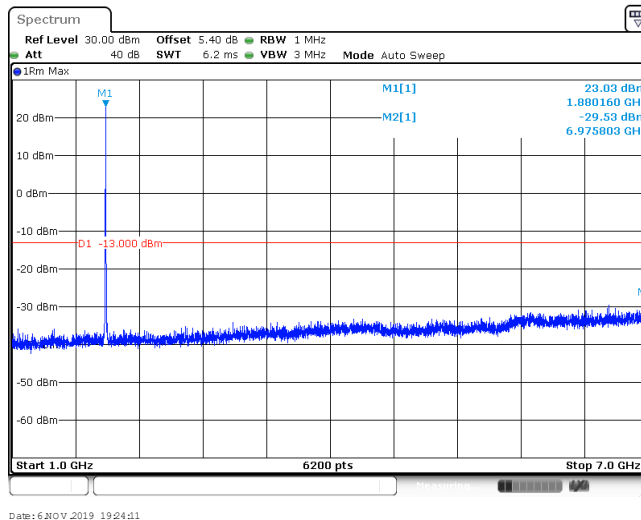
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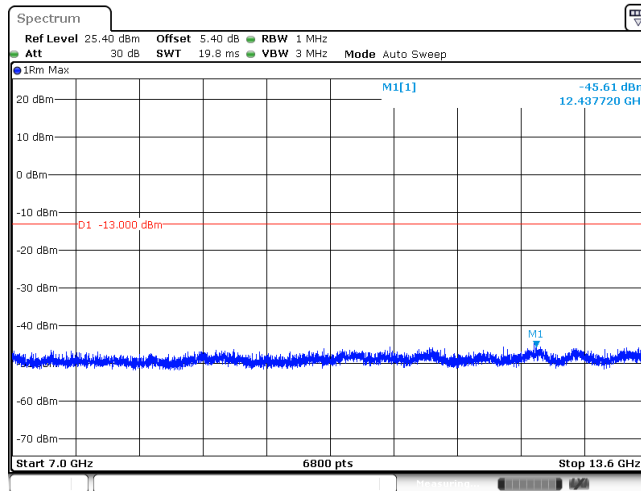
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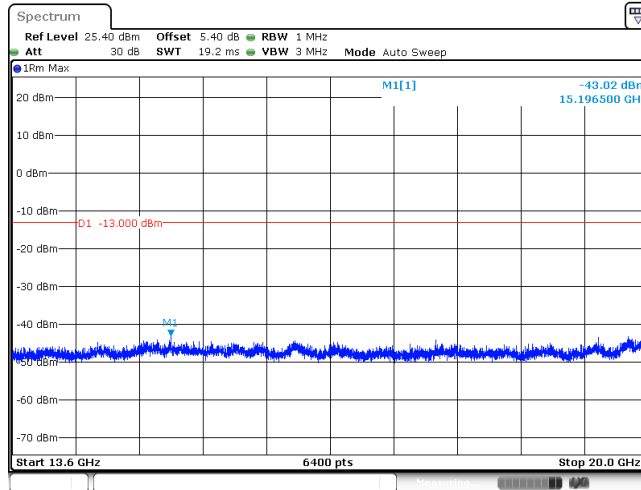


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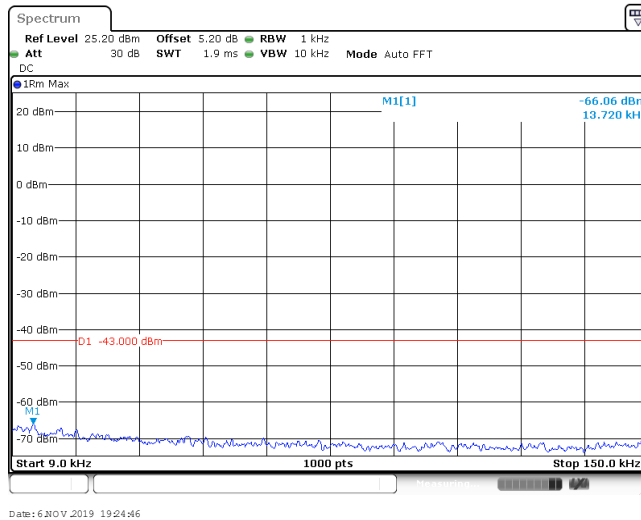


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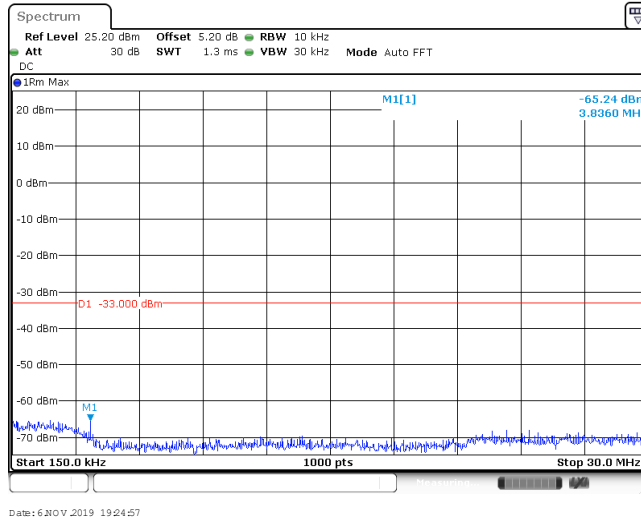
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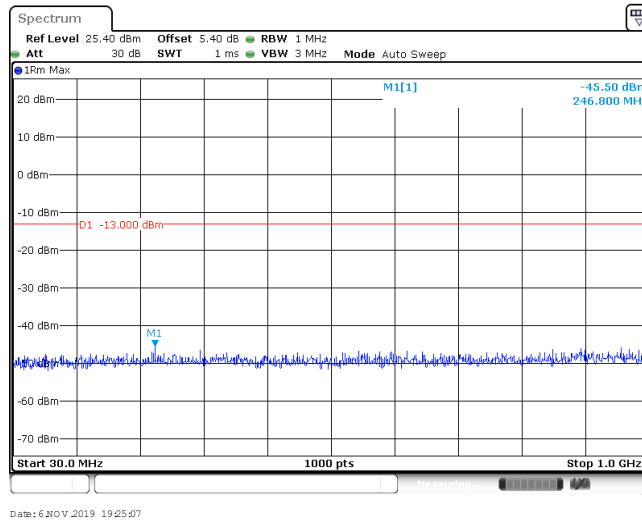
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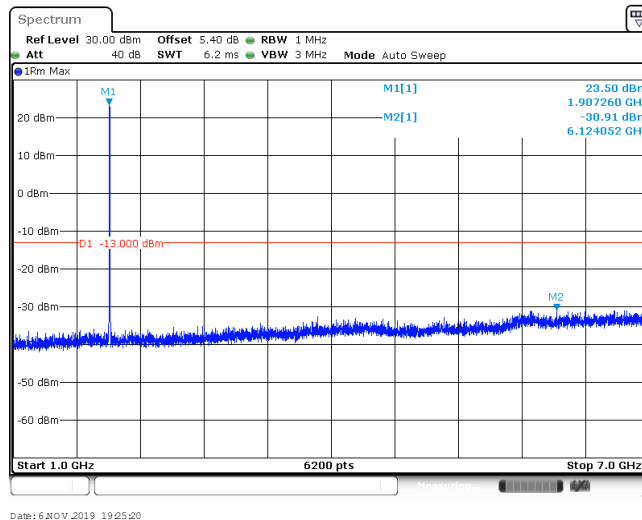
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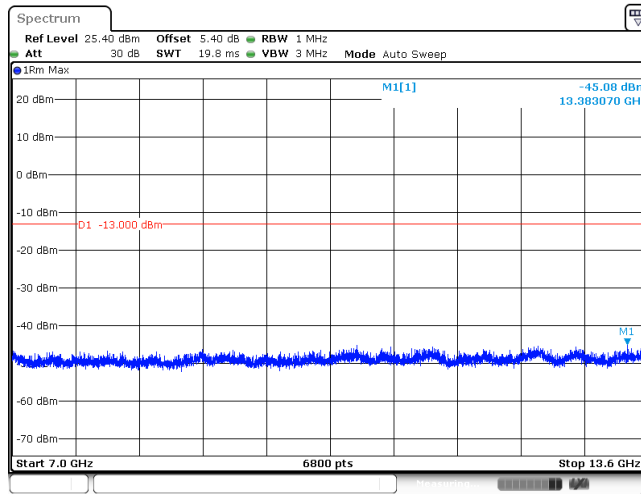
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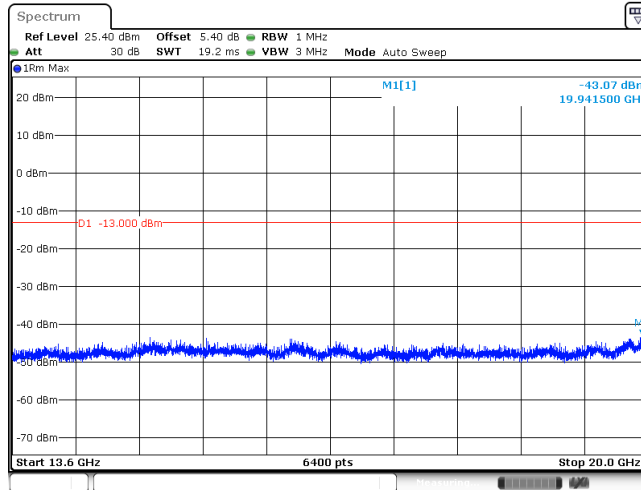


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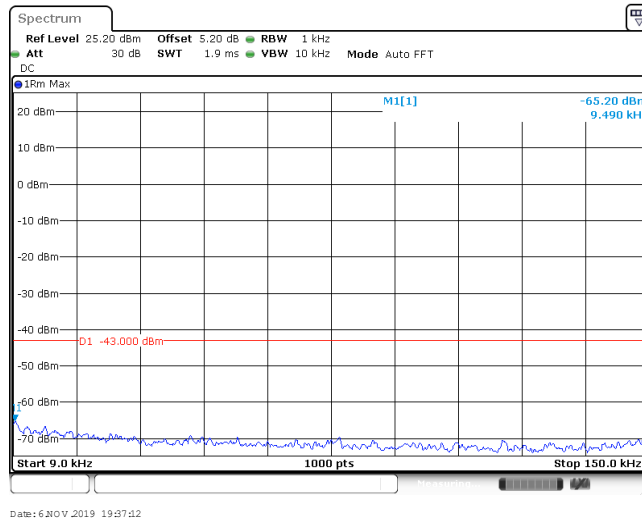


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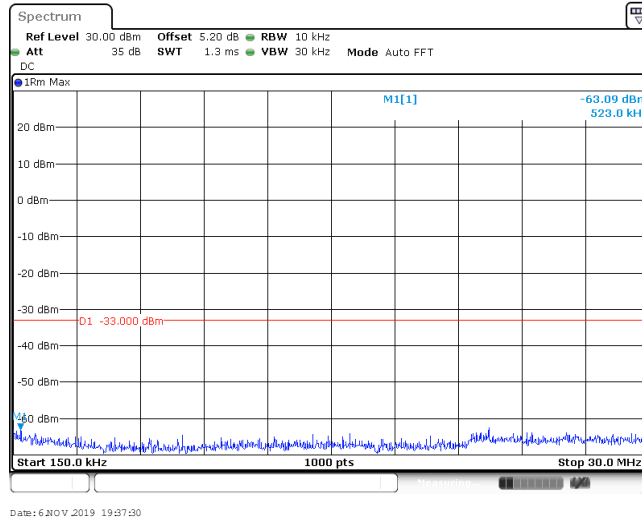
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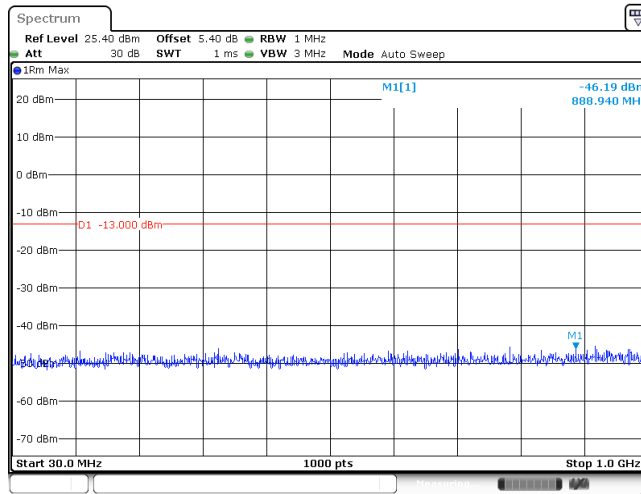


Band IV_1312



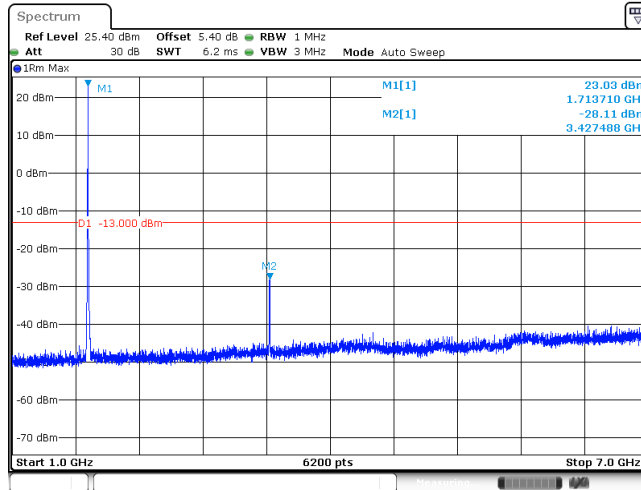
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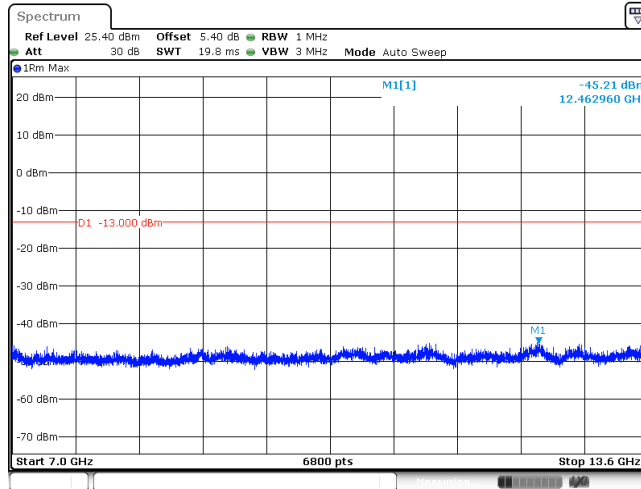


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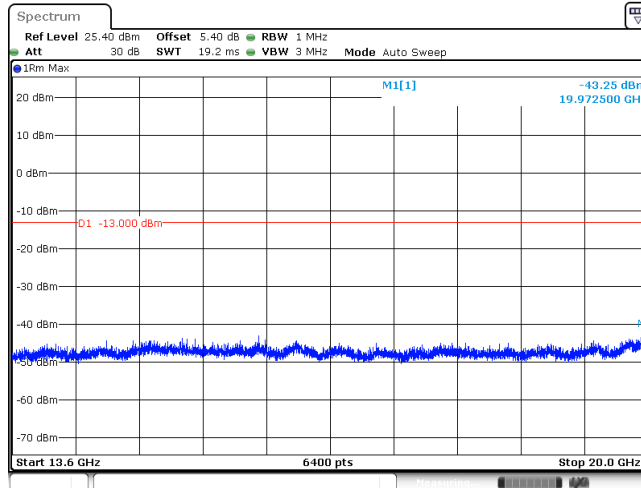


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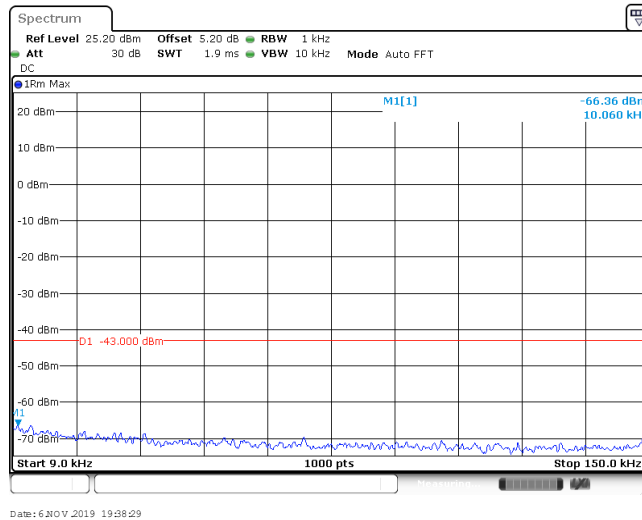


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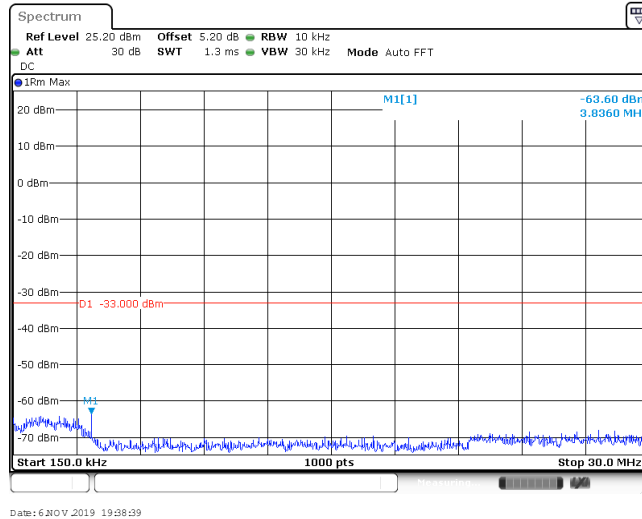
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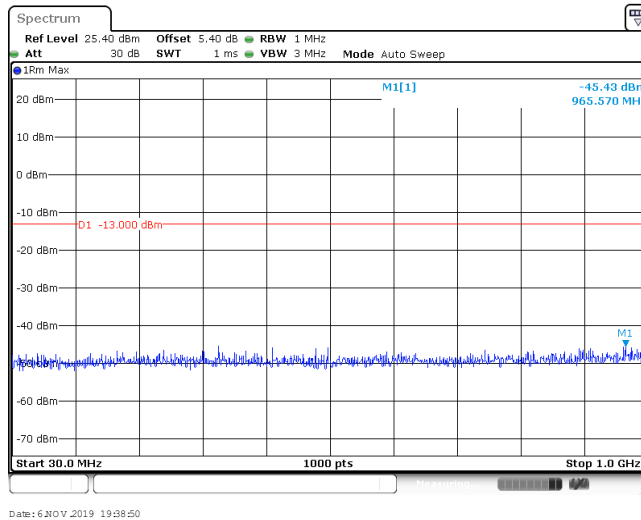
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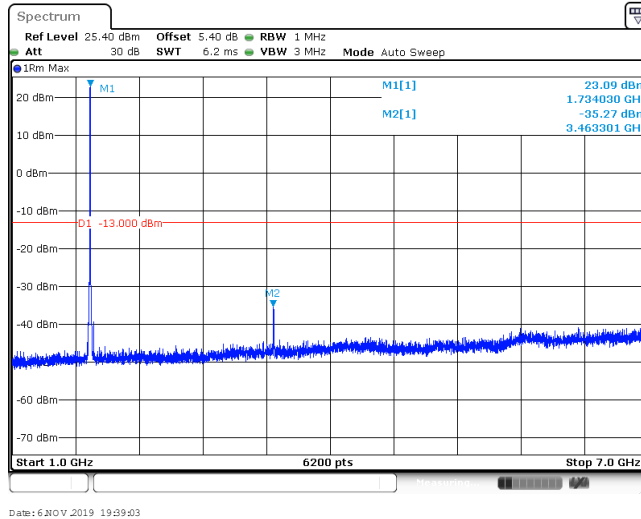


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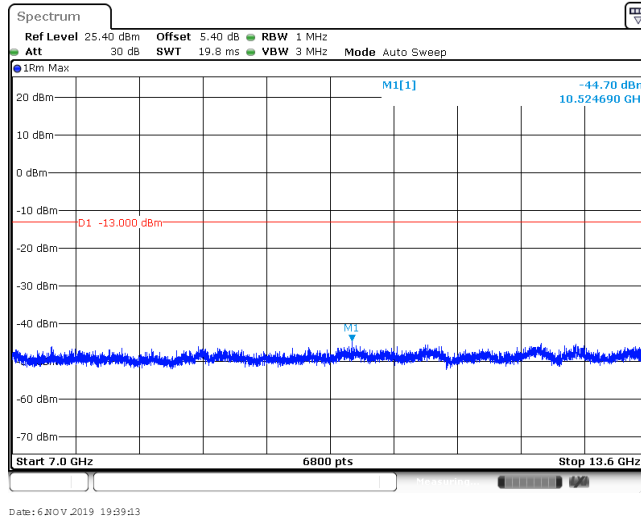


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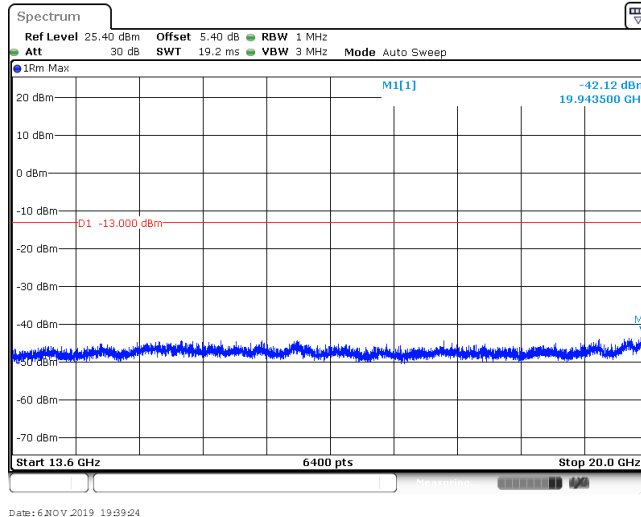
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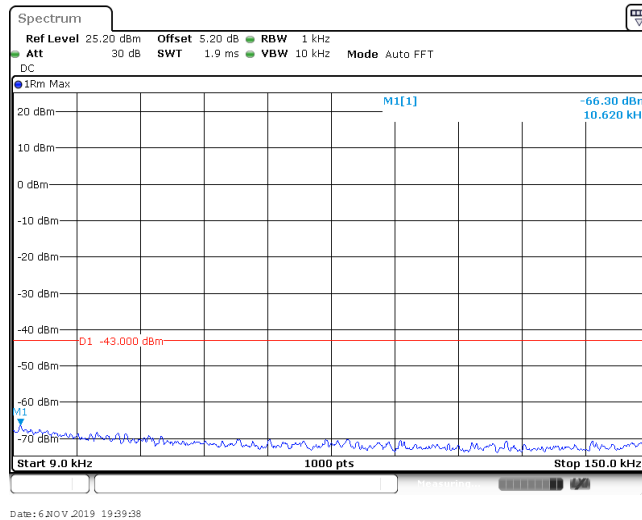
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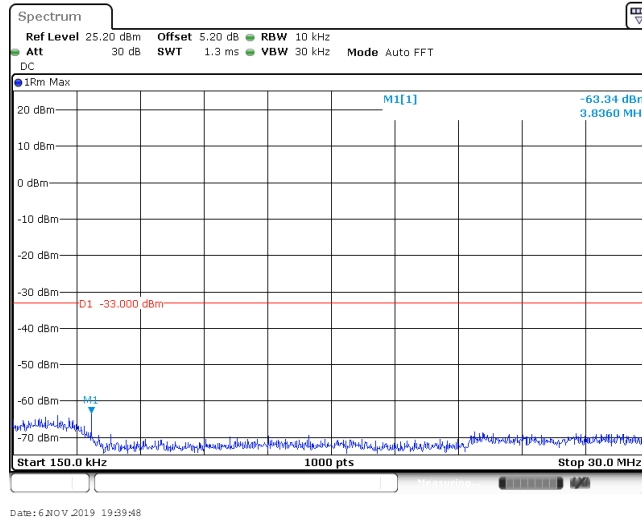
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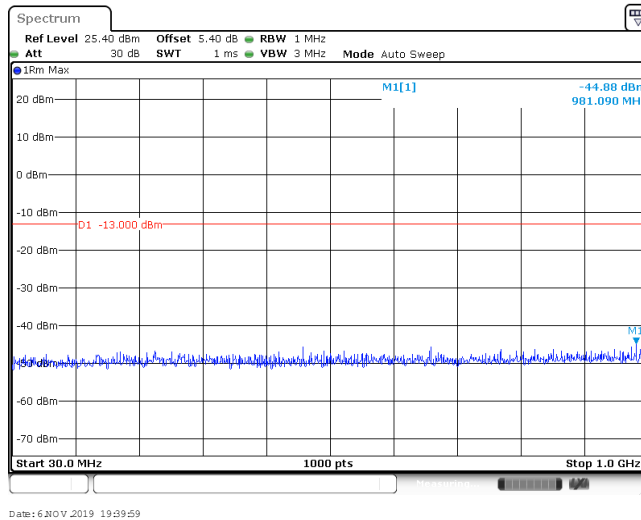
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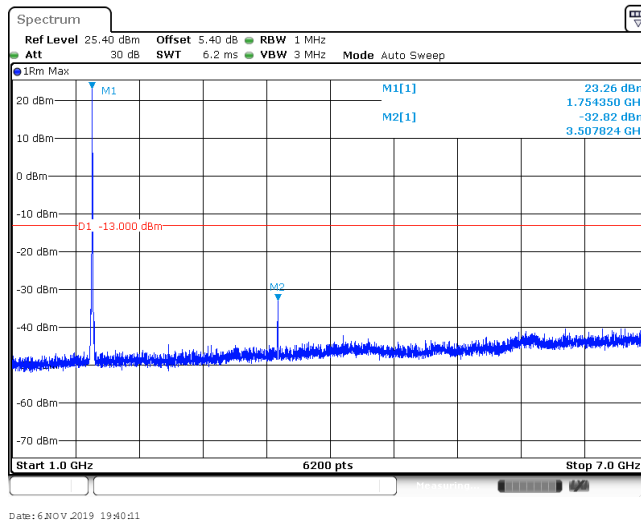
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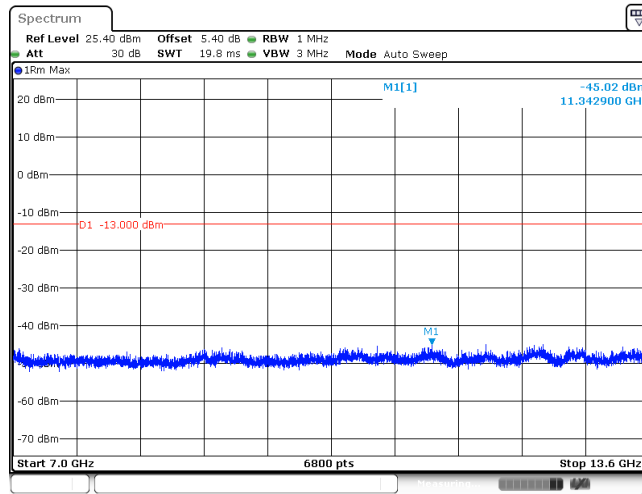
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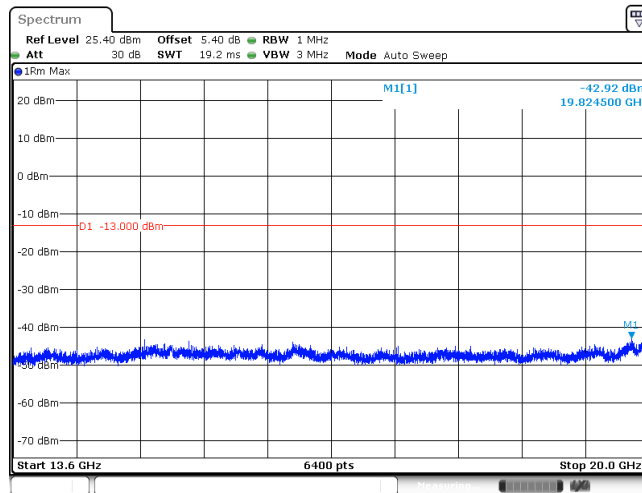


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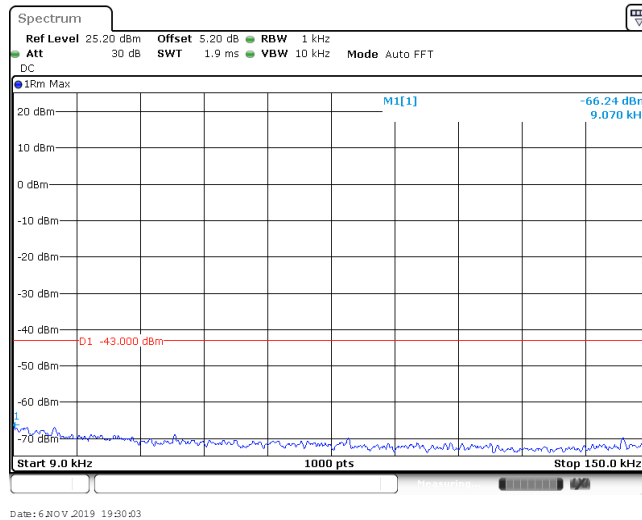


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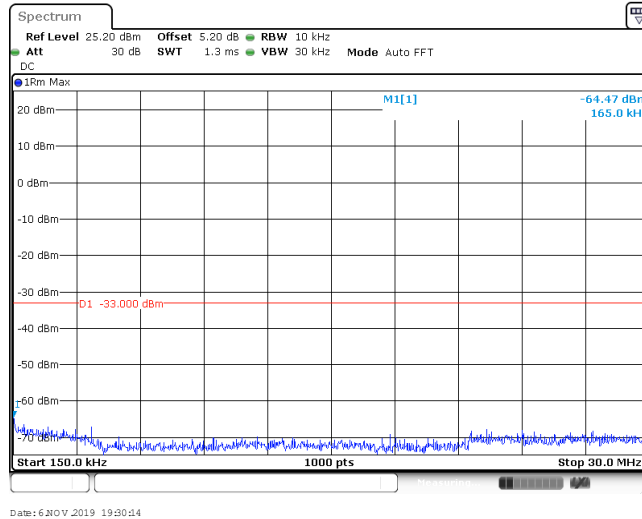
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Band V_4132

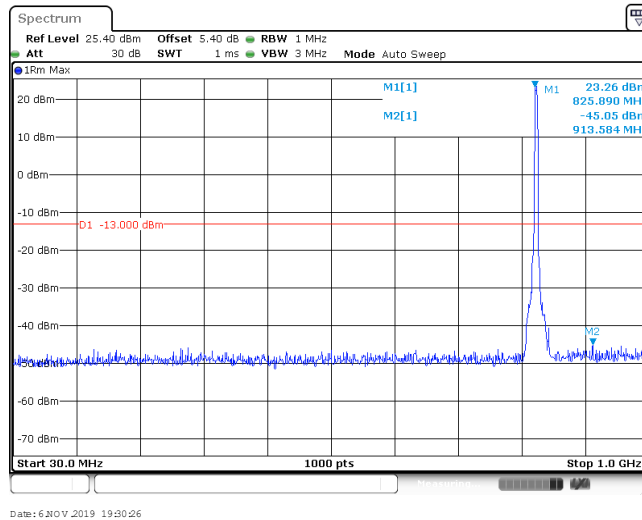


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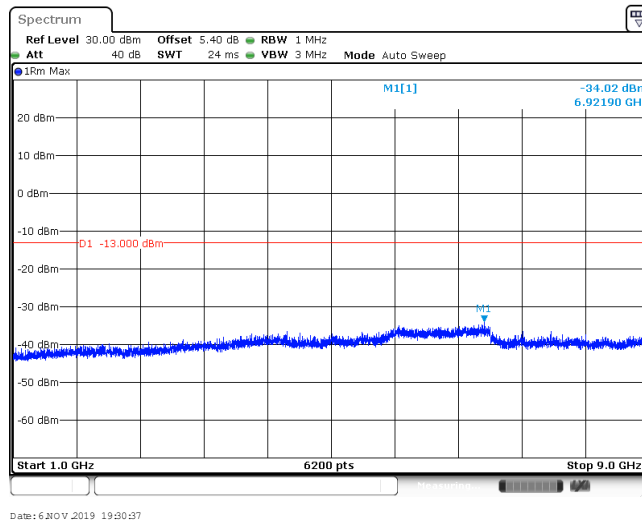


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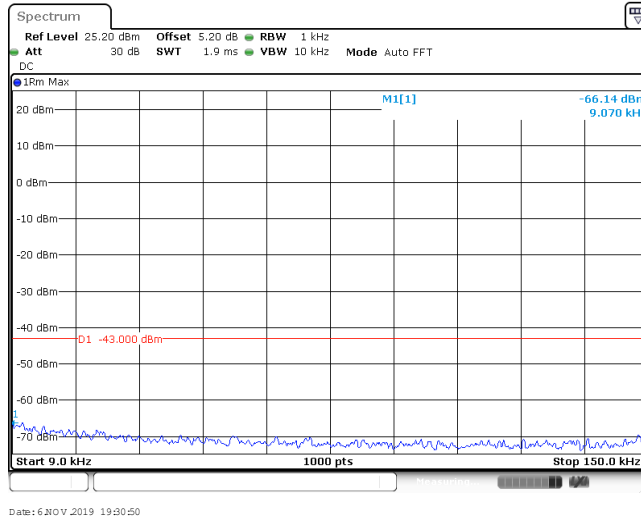
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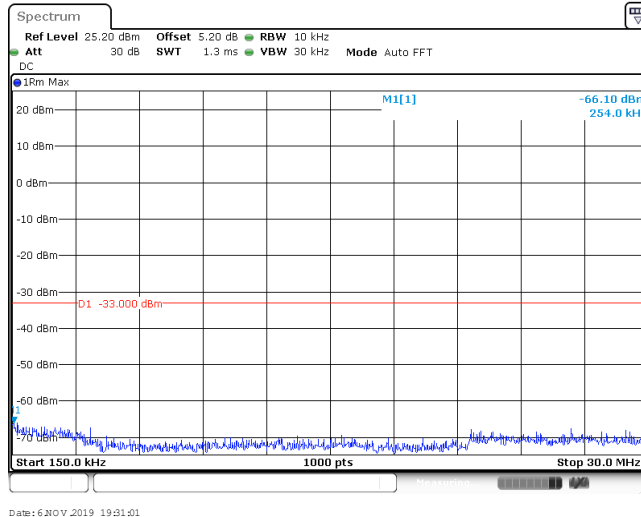
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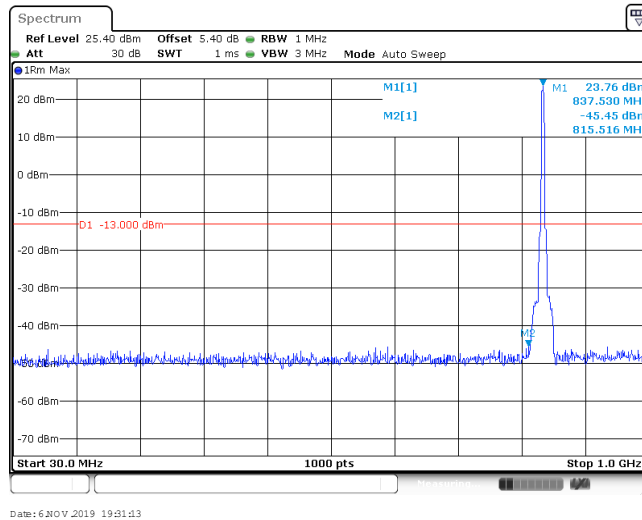
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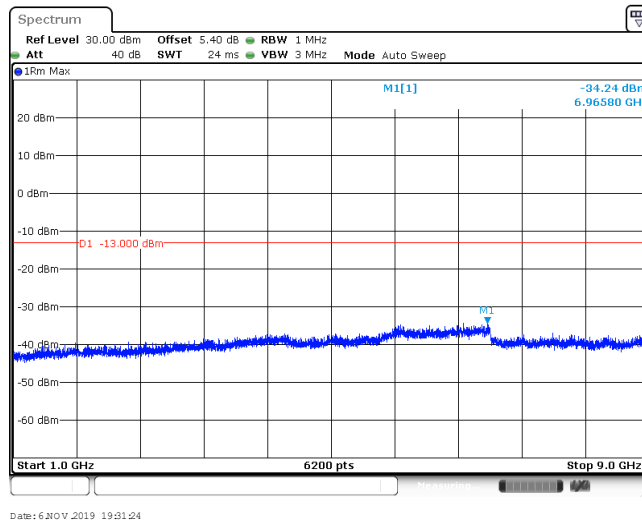
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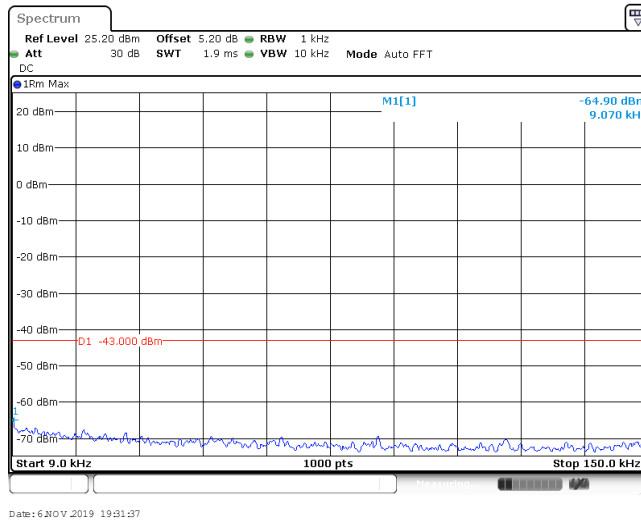


Band V_4182

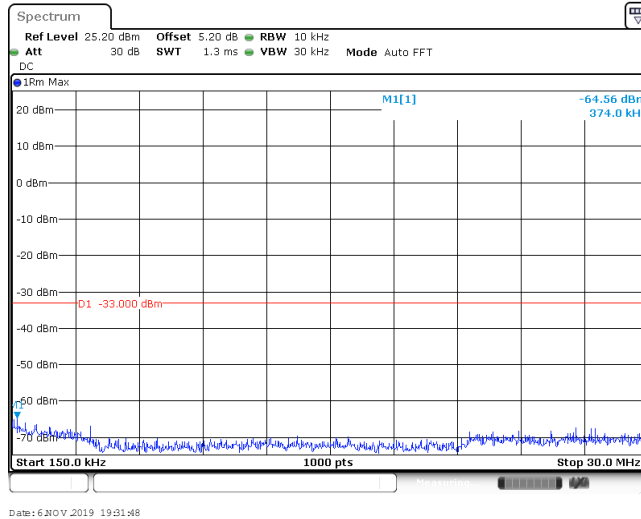


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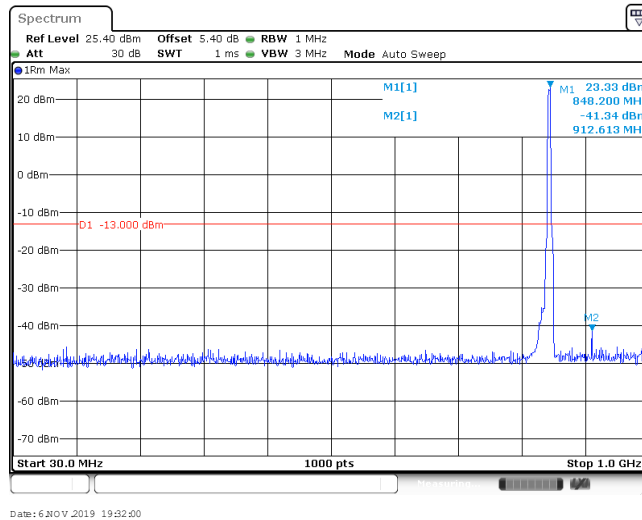


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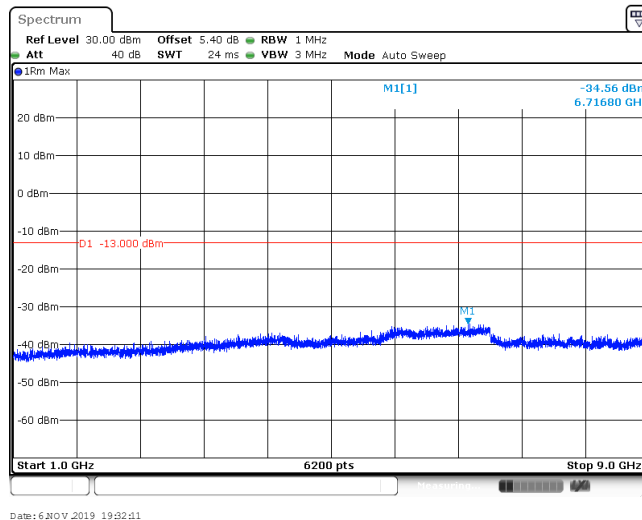


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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1. Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.5706	-70.39	-13.00	57.39	Vertical
110.8050	-64.78	-13.00	51.78	Vertical
845.4228	-60.33	-13.00	47.33	Vertical
2703.1406	-36.60	-13.00	23.60	Vertical
10702.7568	-45.51	-13.00	32.51	Vertical
17997.4999	-32.94	-13.00	19.94	Vertical
44.3567	-64.37	-13.00	51.37	Horizontal
234.6802	-68.43	-13.00	55.43	Horizontal
888.2989	-59.79	-13.00	46.79	Horizontal
2699.1398	-35.31	-13.00	22.31	Horizontal
9308.2103	-47.99	-13.00	34.99	Horizontal
16398.4466	-36.72	-13.00	23.72	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.4736	-70.43	-13.00	57.43	Vertical
109.9805	-64.80	-13.00	51.80	Vertical
889.3175	-60.71	-13.00	47.71	Vertical
2705.9412	-36.59	-13.00	23.59	Vertical
10599.2533	-46.14	-13.00	33.14	Vertical
17995.4999	-33.06	-13.00	20.06	Vertical
44.8417	-64.47	-13.00	51.47	Horizontal
230.9455	-67.21	-13.00	54.21	Horizontal
882.6726	-59.84	-13.00	46.84	Horizontal
2699.5399	-35.45	-13.00	22.45	Horizontal
9287.7096	-47.95	-13.00	34.95	Horizontal
16400.4467	-36.52	-13.00	23.52	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.6191	-70.36	-13.00	57.36	Vertical
110.5625	-64.51	-13.00	51.51	Vertical
844.5982	-61.82	-13.00	48.82	Vertical
2695.1390	-36.59	-13.00	23.59	Vertical
10510.2503	-46.24	-13.00	33.24	Vertical
17994.4998	-33.07	-13.00	20.07	Vertical
44.8417	-64.06	-13.00	51.06	Horizontal
234.0982	-67.49	-13.00	54.49	Horizontal
832.9091	-60.10	-13.00	47.10	Horizontal
2700.3401	-35.41	-13.00	22.41	Horizontal
10015.7339	-47.53	-13.00	34.53	Horizontal
16389.9463	-36.52	-13.00	23.52	Horizontal

7.2. Test Band = WCDMA Band IV

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.6893	-66.29	-13.00	53.29	Vertical
116.0918	-64.62	-13.00	51.62	Vertical
882.8181	-60.45	-13.00	47.45	Vertical
2112.2224	-34.15	-13.00	21.15	Vertical
3426.5142	-41.25	-13.00	28.25	Vertical
17998.5000	-32.76	-13.00	19.76	Vertical
42.5136	-64.01	-13.00	51.01	Horizontal
237.3479	-67.42	-13.00	54.42	Horizontal
883.3517	-60.80	-13.00	47.80	Horizontal
2695.1390	-35.46	-13.00	22.46	Horizontal
3426.5142	-31.77	-13.00	18.77	Horizontal
16389.9463	-36.64	-13.00	23.64	Horizontal



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.4736	-69.98	-13.00	56.98	Vertical
112.0661	-65.16	-13.00	52.16	Vertical
877.2889	-60.92	-13.00	47.92	Vertical
2132.2264	-34.35	-13.00	21.35	Vertical
3463.5155	-48.37	-13.00	35.37	Vertical
17990.9997	-32.99	-13.00	19.99	Vertical
44.1627	-64.34	-13.00	51.34	Horizontal
237.2509	-68.15	-13.00	55.15	Horizontal
882.2846	-60.55	-13.00	47.55	Horizontal
2703.1406	-35.29	-13.00	22.29	Horizontal
3467.5156	-38.94	-13.00	25.94	Horizontal
16393.9465	-37.01	-13.00	24.01	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.5221	-70.67	-13.00	57.67	Vertical
109.3500	-64.17	-13.00	51.17	Vertical
777.1314	-62.19	-13.00	49.19	Vertical
2152.2304	-35.20	-13.00	22.20	Vertical
3503.5168	-44.18	-13.00	31.18	Vertical
17993.4998	-33.11	-13.00	20.11	Vertical
44.4052	-64.35	-13.00	51.35	Horizontal
232.5946	-67.18	-13.00	54.18	Horizontal
855.7053	-60.61	-13.00	47.61	Horizontal
2703.5407	-35.48	-13.00	22.48	Horizontal
3503.5168	-35.30	-13.00	22.30	Horizontal
16398.9466	-37.17	-13.00	24.17	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
32.6191	-69.88	-13.00	56.88	Vertical
107.5069	-64.65	-13.00	51.65	Vertical
594.9562	-63.55	-13.00	50.55	Vertical
2479.8960	-51.13	-13.00	38.13	Vertical
9298.7100	-47.79	-13.00	34.79	Vertical
17995.4999	-32.60	-13.00	19.60	Vertical
43.1927	-63.14	-13.00	50.14	Horizontal
228.3749	-68.68	-13.00	55.68	Horizontal
683.6672	-63.37	-13.00	50.37	Horizontal
1745.7492	-47.26	-13.00	34.26	Horizontal
2479.4959	-49.39	-13.00	36.39	Horizontal
16402.4467	-36.59	-13.00	23.59	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.2311	-70.70	-13.00	57.70	Vertical
109.7380	-64.97	-13.00	51.97	Vertical
620.1775	-63.13	-13.00	50.13	Vertical
2991.9984	-55.64	-13.00	42.64	Vertical
9897.7299	-47.16	-13.00	34.16	Vertical
17993.4998	-32.54	-13.00	19.54	Vertical
40.6220	-63.52	-13.00	50.52	Horizontal
231.7701	-68.10	-13.00	55.10	Horizontal
601.8436	-63.03	-13.00	50.03	Horizontal
1746.9494	-55.37	-13.00	42.37	Horizontal
2480.2961	-46.77	-13.00	33.77	Horizontal
9300.2100	-47.73	-13.00	34.73	Horizontal
16393.4464	-37.14	-13.00	24.14	Horizontal



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7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.5221	-69.56	-13.00	56.56	Vertical
109.8835	-63.89	-13.00	50.89	Vertical
637.4444	-63.92	-13.00	50.92	Vertical
1746.1492	-56.88	-13.00	43.88	Vertical
2983.9968	-56.01	-13.00	43.01	Vertical
17988.9996	-32.94	-13.00	19.94	Vertical
42.5621	-63.97	-13.00	50.97	Horizontal
237.7844	-68.31	-13.00	55.31	Horizontal
1745.7492	-57.26	-13.00	44.26	Horizontal
2701.1402	-55.21	-13.00	42.21	Horizontal
9992.2331	-47.43	-13.00	34.43	Horizontal
16391.9464	-36.83	-13.00	23.83	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Channel	Voltage (Vdc)	Temperature (°C)	Voltage		Limit (ppm)	Verdict
				Deviation (Hz)	Deviation (ppm)		
Band II	9262	VL	TN	3.51	0.001896	±2.5	PASS
Band II	9262	VN	TN	4.23	0.002286	±2.5	PASS
Band II	9262	VH	TN	3.88	0.002097	±2.5	PASS
Band II	9400	VL	TN	-0.60	-0.000320	±2.5	PASS
Band II	9400	VN	TN	0.26	0.000137	±2.5	PASS
Band II	9400	VH	TN	0.51	0.000274	±2.5	PASS
Band II	9538	VL	TN	-4.48	-0.002347	±2.5	PASS
Band II	9538	VN	TN	-4.73	-0.002482	±2.5	PASS
Band II	9538	VH	TN	-5.00	-0.002621	±2.5	PASS
Band IV	1312	VL	TN	15.29	0.008930	±2.5	PASS
Band IV	1312	VN	TN	15.75	0.009198	±2.5	PASS
Band IV	1312	VH	TN	15.98	0.009331	±2.5	PASS
Band IV	1413	VL	TN	4.91	0.002836	±2.5	PASS
Band IV	1413	VN	TN	-4.35	-0.002510	±2.5	PASS
Band IV	1413	VH	TN	-3.10	-0.001792	±2.5	PASS
Band IV	1513	VL	TN	-14.55	-0.008301	±2.5	PASS
Band IV	1513	VN	TN	-15.18	-0.008664	±2.5	PASS
Band IV	1513	VH	TN	-15.10	-0.008615	±2.5	PASS
Band V	4132	VL	TN	5.11	0.006180	±2.5	PASS
Band V	4132	VN	TN	2.60	0.003142	±2.5	PASS
Band V	4132	VH	TN	3.30	0.003999	±2.5	PASS
Band V	4182	VL	TN	-0.31	-0.000376	±2.5	PASS
Band V	4182	VN	TN	0.14	0.000162	±2.5	PASS
Band V	4182	VH	TN	-0.06	-0.000077	±2.5	PASS
Band V	4233	VL	TN	-1.52	-0.001800	±2.5	PASS
Band V	4233	VN	TN	-2.14	-0.002526	±2.5	PASS
Band V	4233	VH	TN	-1.99	-0.002349	±2.5	PASS



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8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	5.20	0.002807	±2.5	PASS
Band II	9262	VN	-20	4.51	0.002433	±2.5	PASS
Band II	9262	VN	-10	3.86	0.002081	±2.5	PASS
Band II	9262	VN	0	4.32	0.002332	±2.5	PASS
Band II	9262	VN	10	4.04	0.002182	±2.5	PASS
Band II	9262	VN	20	3.96	0.002139	±2.5	PASS
Band II	9262	VN	30	4.08	0.002201	±2.5	PASS
Band II	9262	VN	40	5.09	0.002745	±2.5	PASS
Band II	9262	VN	50	3.81	0.002058	±2.5	PASS
Band II	9400	VN	-30	-0.20	-0.000107	±2.5	PASS
Band II	9400	VN	-20	-0.89	-0.000476	±2.5	PASS
Band II	9400	VN	-10	0.19	0.000099	±2.5	PASS
Band II	9400	VN	0	0.21	0.000114	±2.5	PASS
Band II	9400	VN	10	-0.66	-0.000350	±2.5	PASS
Band II	9400	VN	20	-0.24	-0.000126	±2.5	PASS
Band II	9400	VN	30	0.46	0.000243	±2.5	PASS
Band II	9400	VN	40	-0.82	-0.000434	±2.5	PASS
Band II	9400	VN	50	-0.59	-0.000312	±2.5	PASS
Band II	9538	VN	-30	-4.90	-0.002568	±2.5	PASS
Band II	9538	VN	-20	-5.11	-0.002677	±2.5	PASS
Band II	9538	VN	-10	-5.23	-0.002741	±2.5	PASS
Band II	9538	VN	0	-5.14	-0.002692	±2.5	PASS
Band II	9538	VN	10	-5.21	-0.002733	±2.5	PASS
Band II	9538	VN	20	-4.91	-0.002572	±2.5	PASS
Band II	9538	VN	30	-5.11	-0.002677	±2.5	PASS
Band II	9538	VN	40	-4.91	-0.002572	±2.5	PASS
Band II	9538	VN	50	-4.14	-0.002171	±2.5	PASS
Band IV	1312	VN	-30	16.76	0.009787	±2.5	PASS
Band IV	1312	VN	-20	16.29	0.009515	±2.5	PASS
Band IV	1312	VN	-10	15.19	0.008872	±2.5	PASS
Band IV	1312	VN	0	16.24	0.009486	±2.5	PASS
Band IV	1312	VN	10	15.41	0.009001	±2.5	PASS
Band IV	1312	VN	20	16.94	0.009895	±2.5	PASS
Band IV	1312	VN	30	15.86	0.009260	±2.5	PASS
Band IV	1312	VN	40	15.78	0.009214	±2.5	PASS
Band IV	1312	VN	50	16.37	0.009561	±2.5	PASS
Band IV	1413	VN	-30	-1.03	-0.000594	±2.5	PASS
Band IV	1413	VN	-20	-1.54	-0.000892	±2.5	PASS
Band IV	1413	VN	-10	-2.25	-0.001296	±2.5	PASS
Band IV	1413	VN	0	-1.55	-0.000896	±2.5	PASS



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Band IV	1413	VN	10	-1.42	-0.000822	±2.5	PASS
Band IV	1413	VN	20	-1.21	-0.000698	±2.5	PASS
Band IV	1413	VN	30	-1.09	-0.000632	±2.5	PASS
Band IV	1413	VN	40	-1.22	-0.000706	±2.5	PASS
Band IV	1413	VN	50	-0.86	-0.000495	±2.5	PASS
Band IV	1513	VN	-30	-14.62	-0.008342	±2.5	PASS
Band IV	1513	VN	-20	-15.03	-0.008579	±2.5	PASS
Band IV	1513	VN	-10	-14.92	-0.008513	±2.5	PASS
Band IV	1513	VN	0	-14.83	-0.008464	±2.5	PASS
Band IV	1513	VN	10	-15.04	-0.008583	±2.5	PASS
Band IV	1513	VN	20	-14.77	-0.008427	±2.5	PASS
Band IV	1513	VN	30	-15.45	-0.008815	±2.5	PASS
Band IV	1513	VN	40	-14.01	-0.007995	±2.5	PASS
Band IV	1513	VN	50	-13.92	-0.007942	±2.5	PASS
Band V	4132	VN	-30	2.35	0.002848	±2.5	PASS
Band V	4132	VN	-20	1.65	0.001991	±2.5	PASS
Band V	4132	VN	-10	0.77	0.000926	±2.5	PASS
Band V	4132	VN	0	3.03	0.003661	±2.5	PASS
Band V	4132	VN	10	1.90	0.002294	±2.5	PASS
Band V	4132	VN	20	2.47	0.002995	±2.5	PASS
Band V	4132	VN	30	2.80	0.003393	±2.5	PASS
Band V	4132	VN	40	2.87	0.003471	±2.5	PASS
Band V	4132	VN	50	2.07	0.002501	±2.5	PASS
Band V	4182	VN	-30	0.01	0.000009	±2.5	PASS
Band V	4182	VN	-20	-0.24	-0.000291	±2.5	PASS
Band V	4182	VN	-10	-0.14	-0.000162	±2.5	PASS
Band V	4182	VN	0	-0.31	-0.000376	±2.5	PASS
Band V	4182	VN	10	-0.41	-0.000496	±2.5	PASS
Band V	4182	VN	20	-0.39	-0.000470	±2.5	PASS
Band V	4182	VN	30	-0.17	-0.000205	±2.5	PASS
Band V	4182	VN	40	-0.11	-0.000137	±2.5	PASS
Band V	4182	VN	50	-0.29	-0.000351	±2.5	PASS
Band V	4233	VN	-30	-2.00	-0.002357	±2.5	PASS
Band V	4233	VN	-20	-2.11	-0.002492	±2.5	PASS
Band V	4233	VN	-10	-2.04	-0.002408	±2.5	PASS
Band V	4233	VN	0	-1.65	-0.001952	±2.5	PASS
Band V	4233	VN	10	-2.05	-0.002425	±2.5	PASS
Band V	4233	VN	20	-1.95	-0.002306	±2.5	PASS
Band V	4233	VN	30	-1.97	-0.002332	±2.5	PASS
Band V	4233	VN	40	-2.01	-0.002374	±2.5	PASS
Band V	4233	VN	50	-2.19	-0.002585	±2.5	PASS

The End



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