

Appendix B

WCDMA Band II & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Modulation	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	QPSK	9262	23.02	22.04	33.00	PASS
Band II	QPSK	9400	23.22	22.24	33.00	PASS
Band II	QPSK	9538	23.19	22.21	33.00	PASS
Band II	16QAM	9262	20.88	19.9	33.00	PASS
Band II	16QAM	9400	20.96	19.98	33.00	PASS
Band II	16QAM	9538	20.87	19.89	33.00	PASS

Band	Modulation	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	QPSK	4132	22.80	17.45	38.45	PASS
Band V	QPSK	4182	22.83	17.48	38.45	PASS
Band V	QPSK	4233	23.01	17.66	38.45	PASS
Band V	16QAM	4132	20.99	15.64	38.45	PASS
Band V	16QAM	4182	20.86	15.51	38.45	PASS
Band V	16QAM	4233	20.89	15.54	38.45	PASS

Remark:

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

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

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



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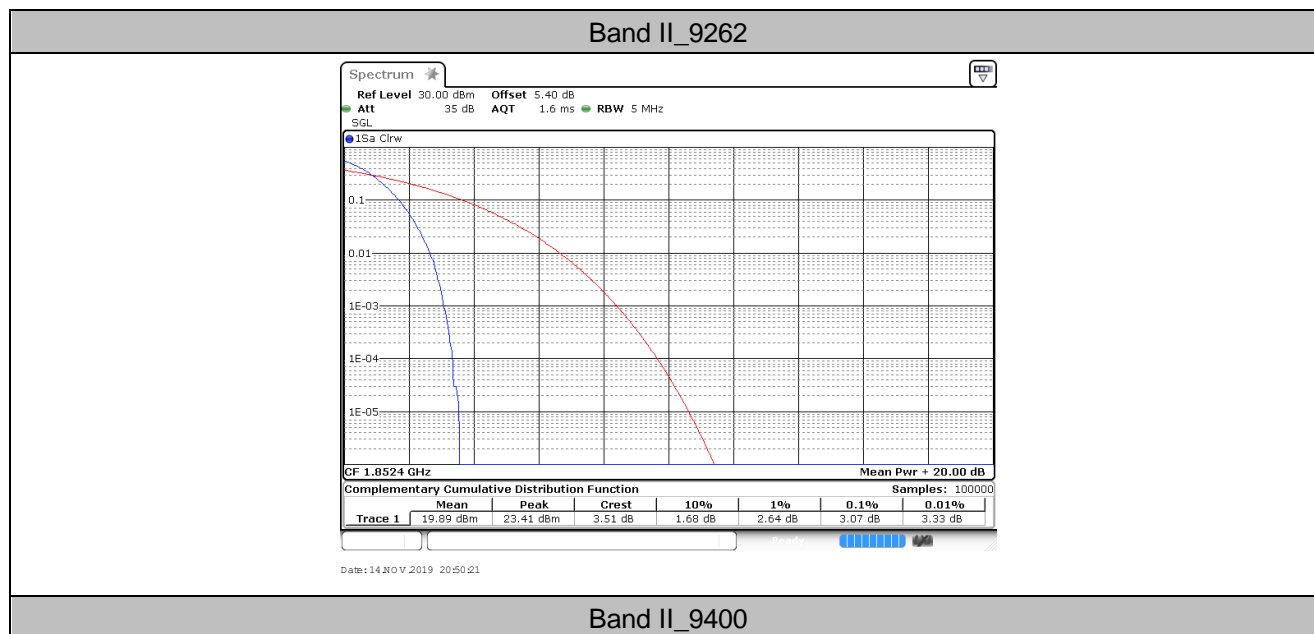


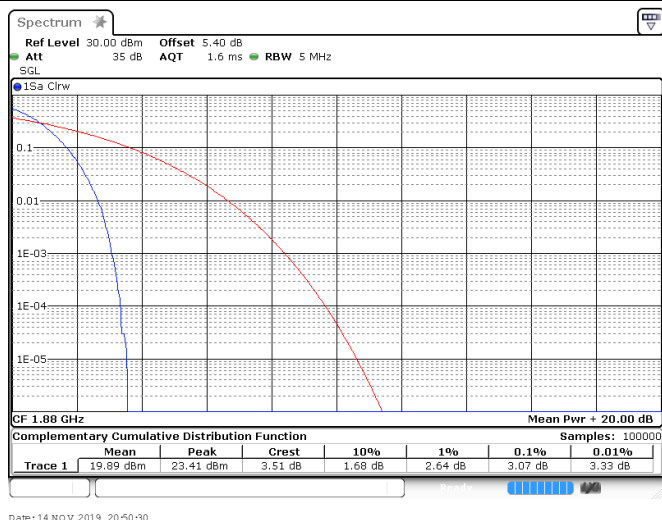
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

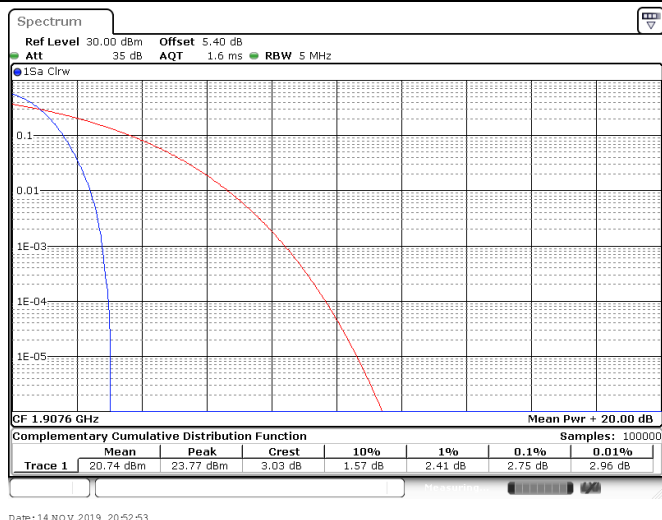
Band	Modulation	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	QPSK	9262	3.07	13	PASS
Band II	QPSK	9400	3.07	13	PASS
Band II	QPSK	9538	2.75	13	PASS
Band II	16QAM	9262	3.19	13	PASS
Band II	16QAM	9400	3.33	13	PASS
Band II	16QAM	9538	3.07	13	PASS
Band V	QPSK	4132	3.04	13	PASS
Band V	QPSK	4182	3.07	13	PASS
Band V	QPSK	4233	2.90	13	PASS
Band V	16QAM	4132	2.72	13	PASS
Band V	16QAM	4182	2.72	13	PASS
Band V	16QAM	4233	2.72	13	PASS

2.2. Test Plots for QPSK



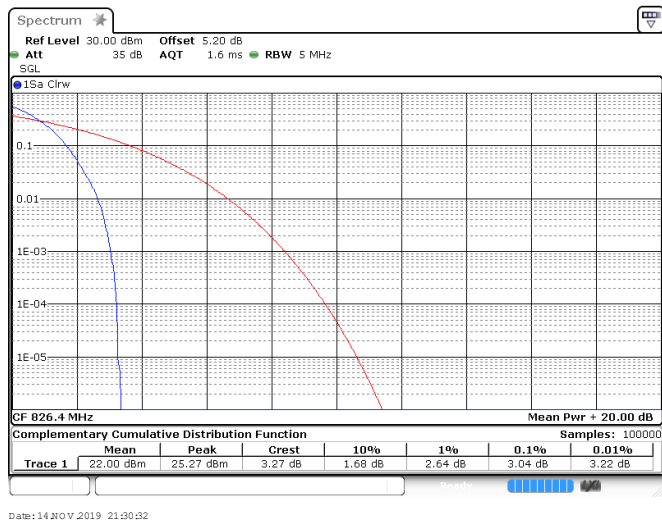


Band II_9538

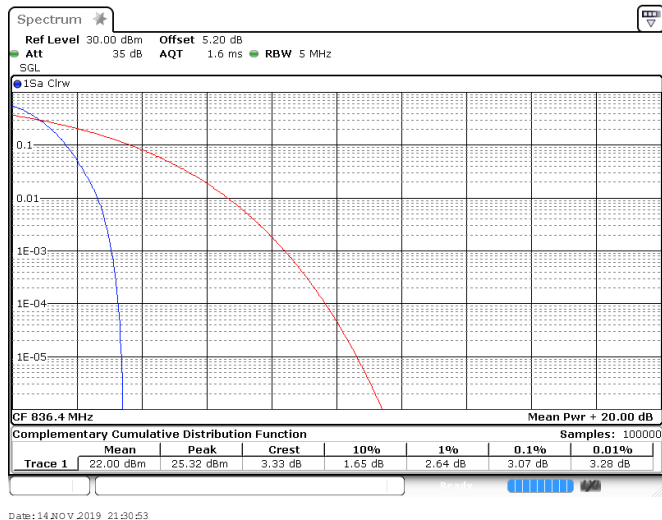


Band V_4132



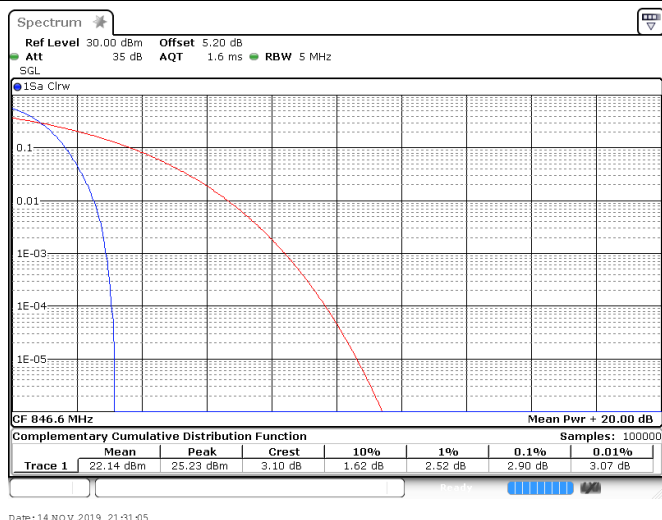


Band V_4182



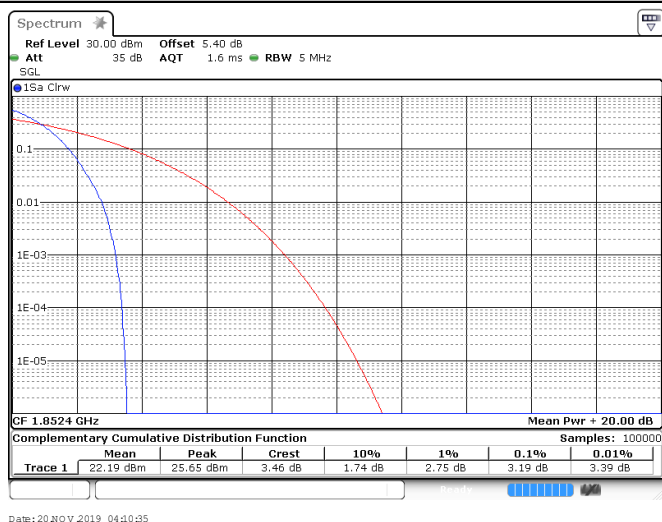
Band V_4233





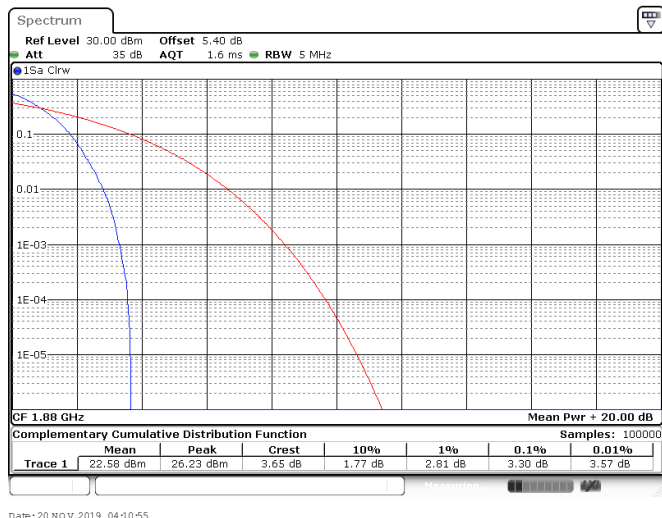
2.3. Test Plots for 16QAM

Band II_9262

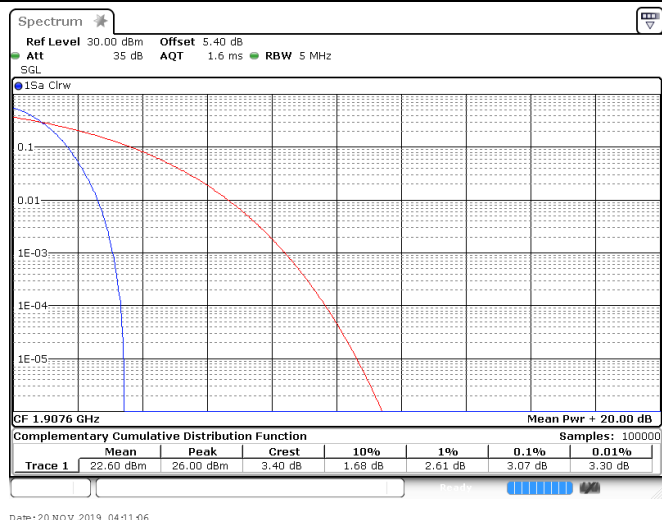


Band II_9400



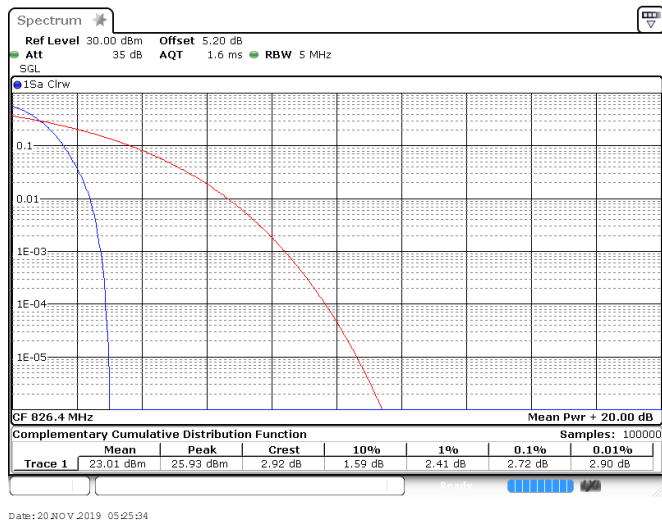


Band II_9538

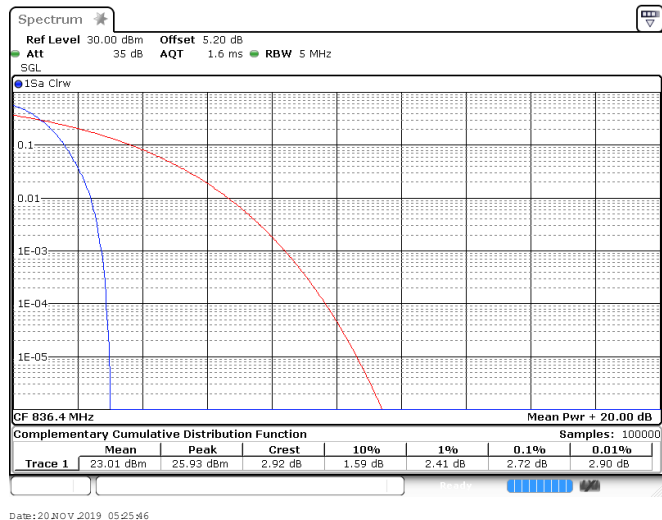


Band V_4132



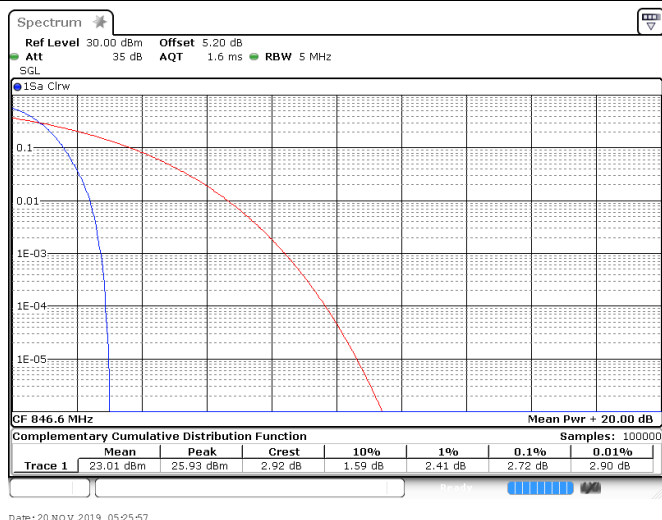


Band V_4182



Band V_4233





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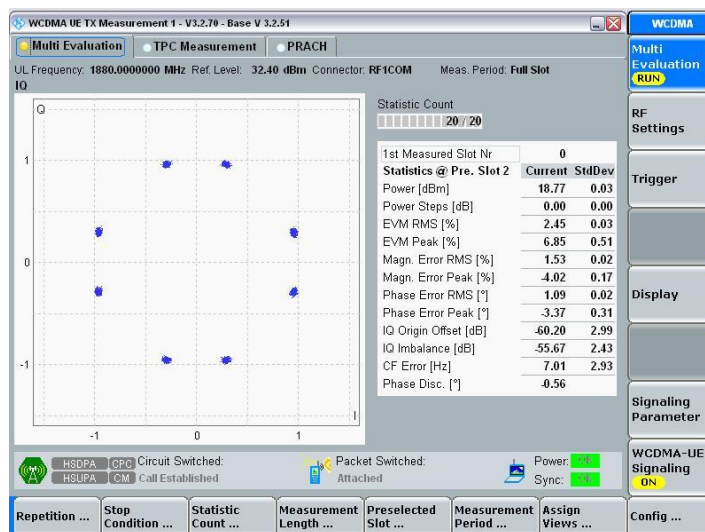
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

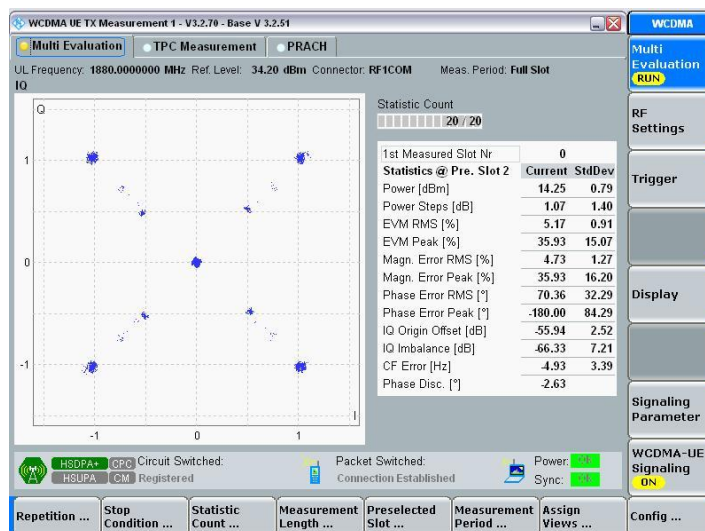
3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = UMTS/TM2

3.1.2.1. Test Channel = MCH



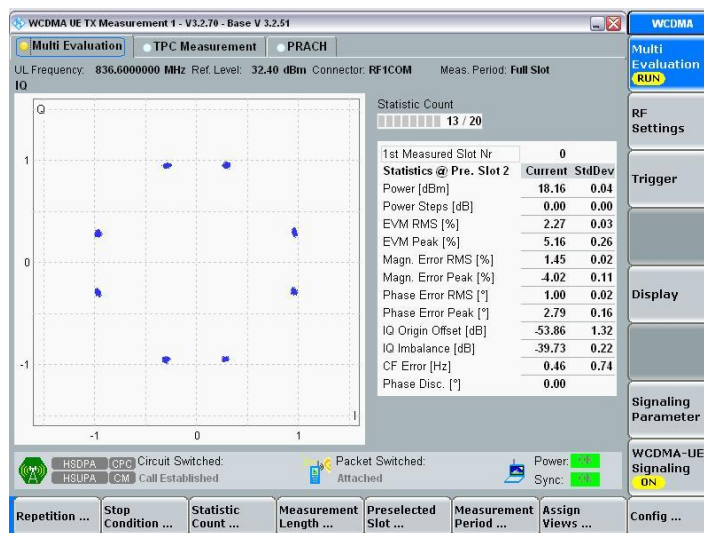
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3.2. Test Band = WCDMA Band V

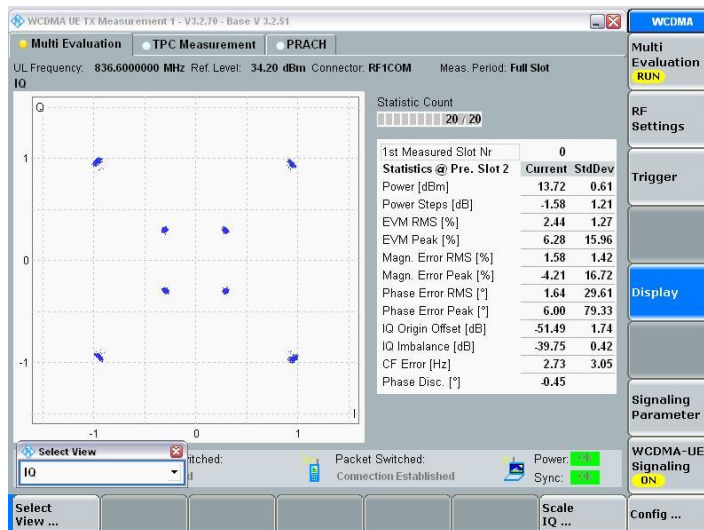
3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



3.2.2. Test Mode = UMTS/TM2

3.2.2.1. Test Channel = MCH



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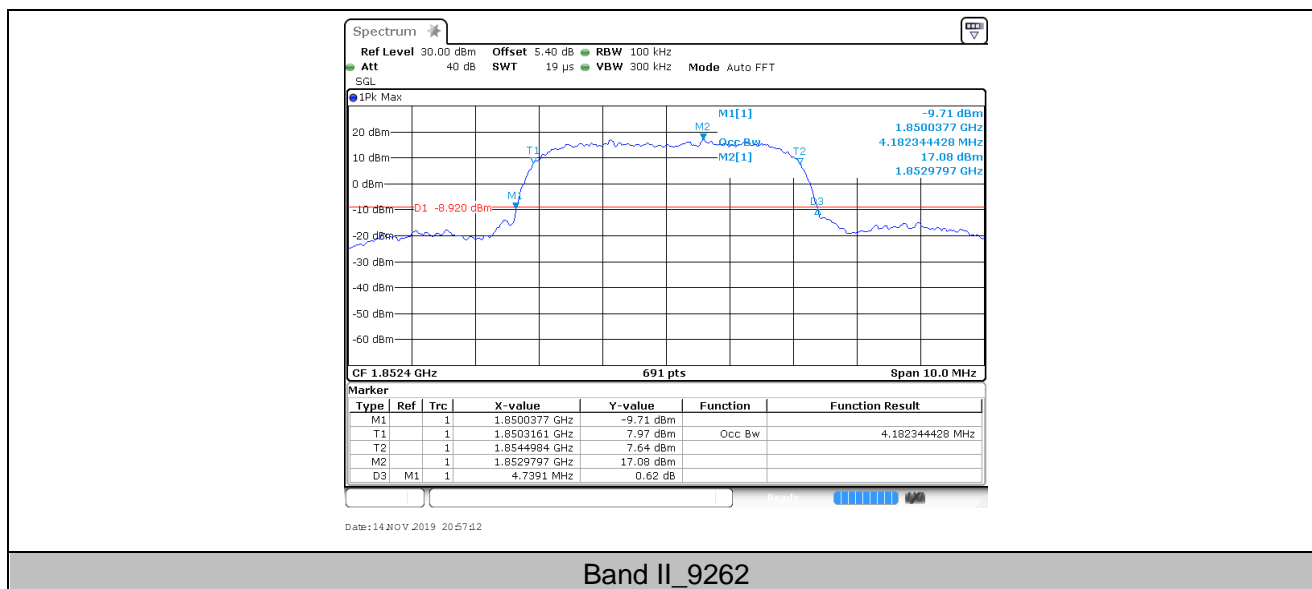


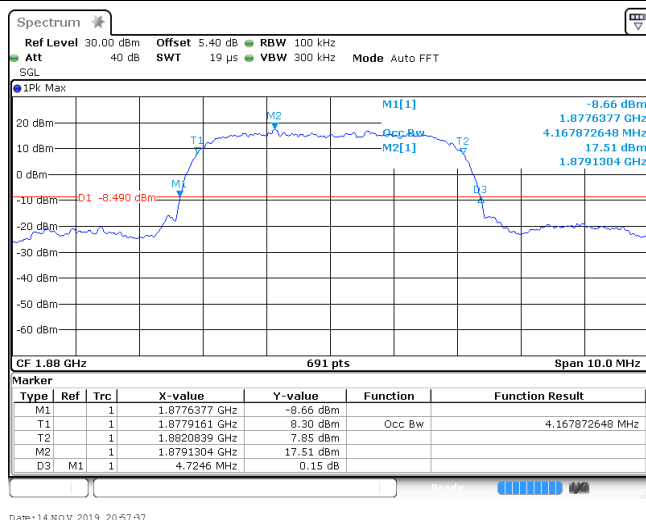
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

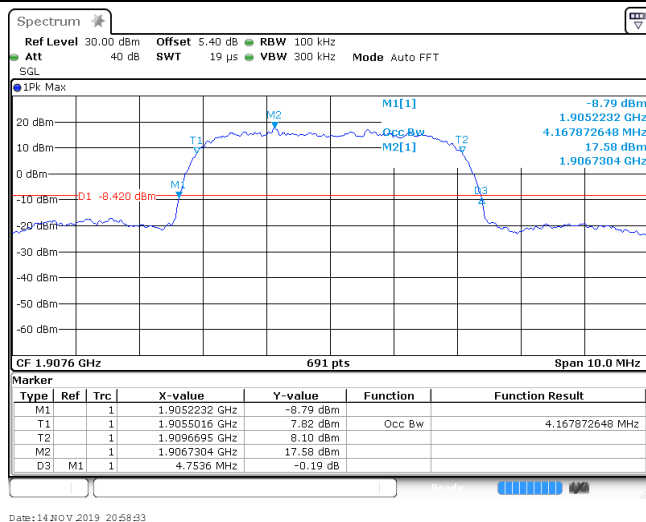
Band	Modulation	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	QPSK	9262	4182.3	4739	---	PASS
Band II	QPSK	9400	4167.9	4725	---	PASS
Band II	QPSK	9538	4167.9	4754	---	PASS
Band II	16QAM	9262	4153.4	4725	---	PASS
Band II	16QAM	9400	4153.4	4725	---	PASS
Band II	16QAM	9538	4153.4	4739	---	PASS
Band V	QPSK	4132	4153.4	4725	---	PASS
Band V	QPSK	4182	4167.9	4725	---	PASS
Band V	QPSK	4233	4153.4	4725	---	PASS
Band V	16QAM	4132	4153.4	4754	---	PASS
Band V	16QAM	4182	4167.9	4768	---	PASS
Band V	16QAM	4233	4167.9	4754	---	PASS

4.2. Test Plots for QPSK



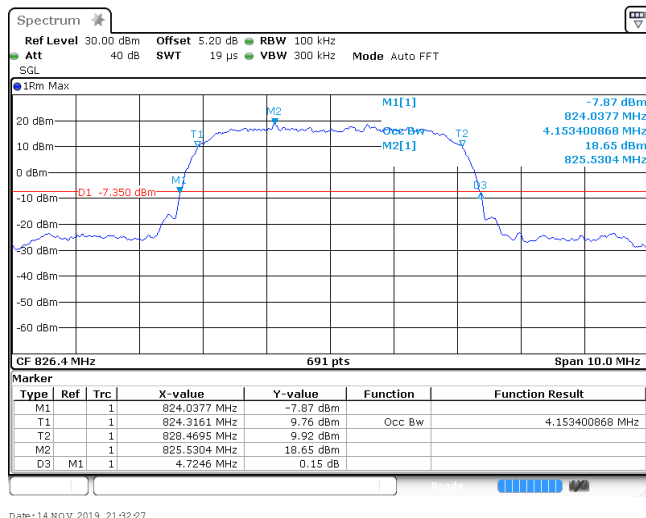


Band II_9400

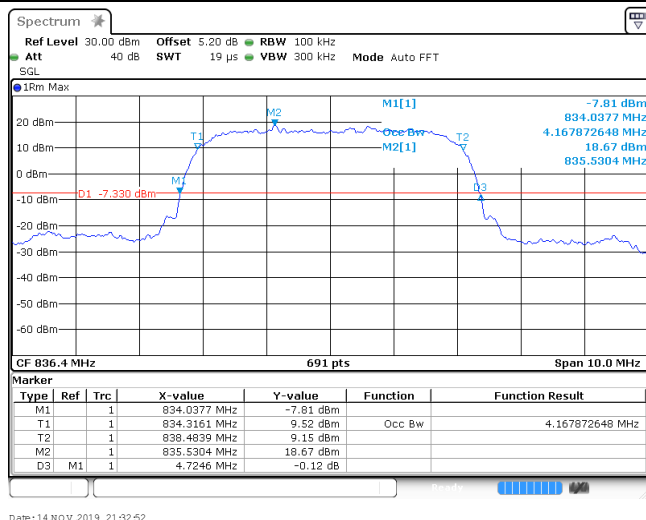


Band II_9538





Band V_4132

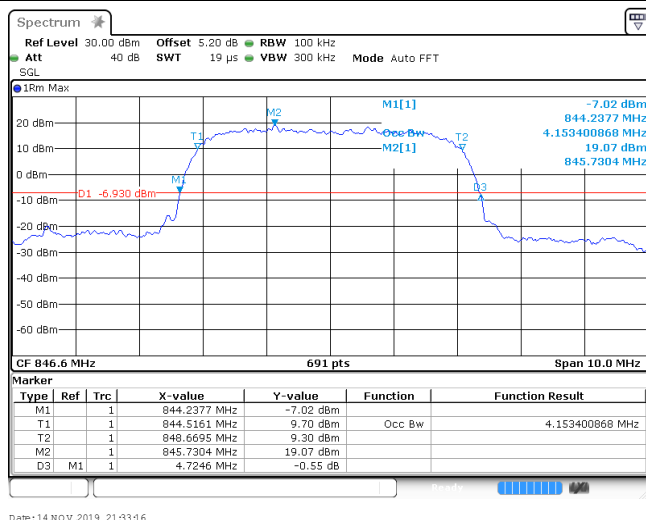


Band V_4182



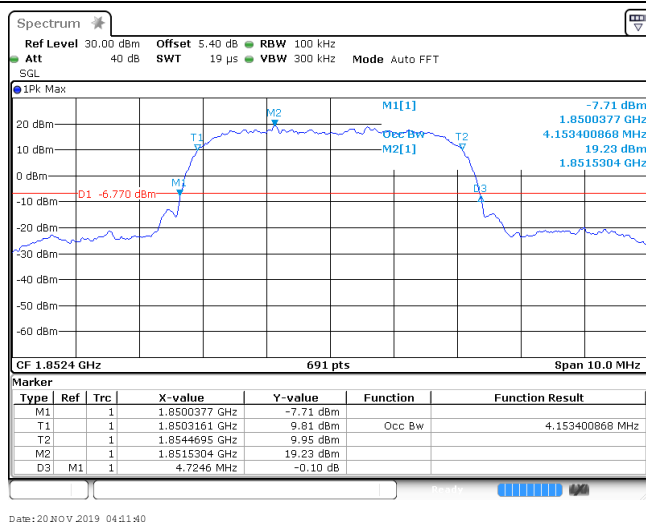
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Band V_4233

4.3. Test Plots for 16QAM



Band II_9262

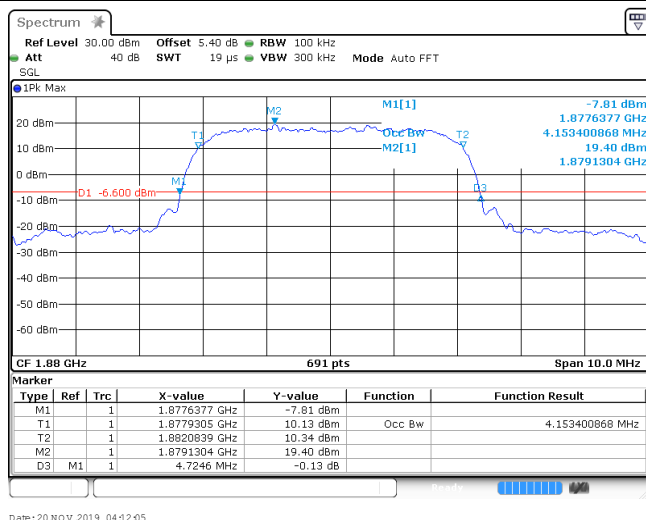


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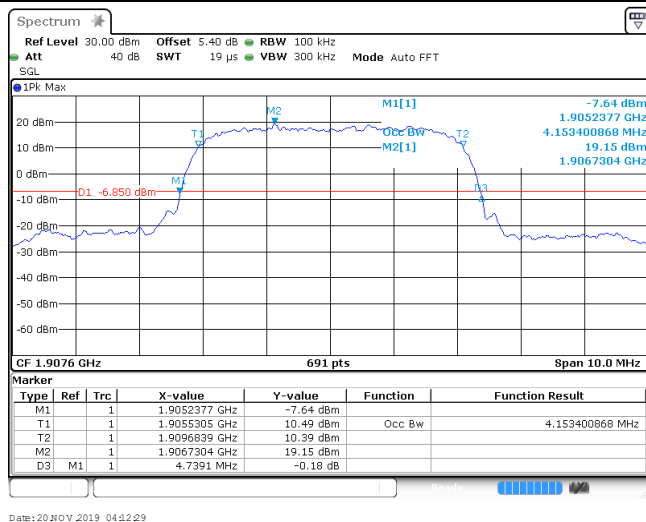
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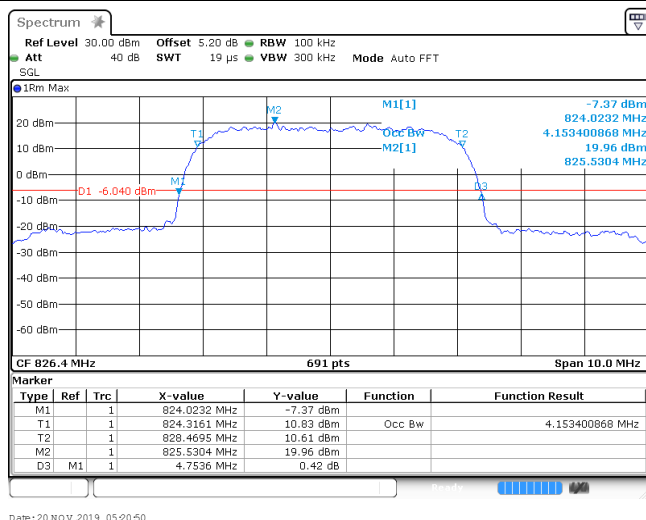


Band II_9400

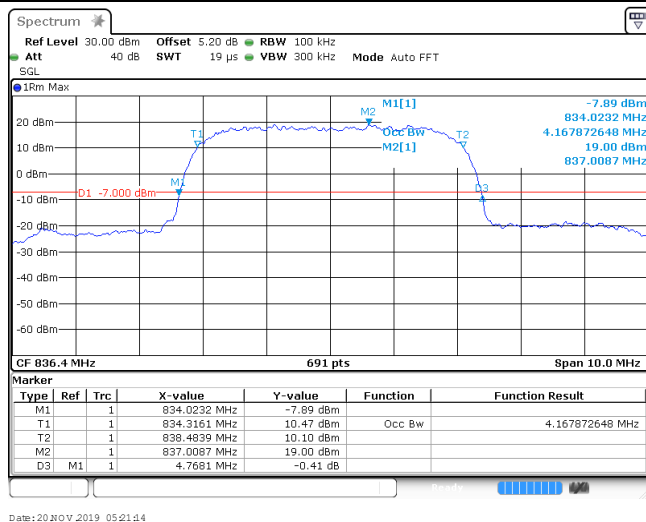


Band II_9538





Band V_4132

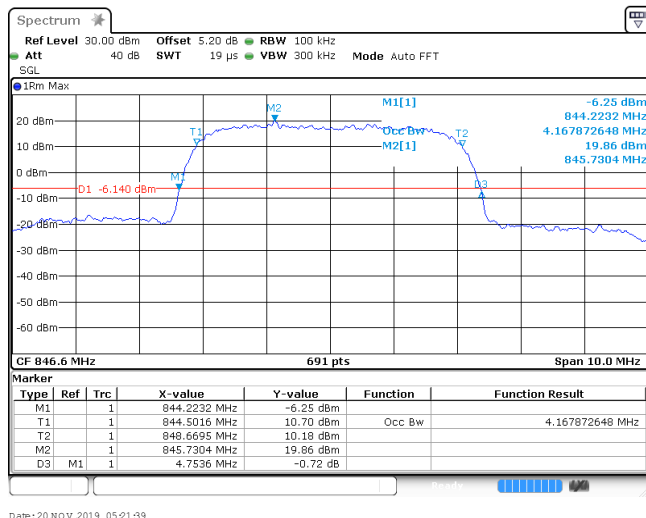


Band V_4182



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Band V_4233

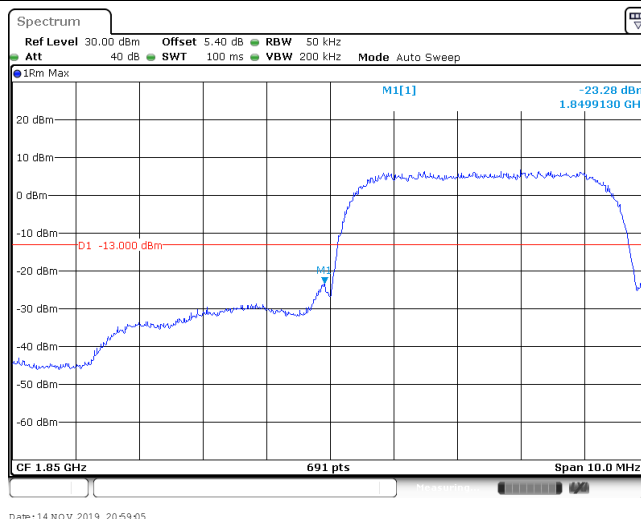


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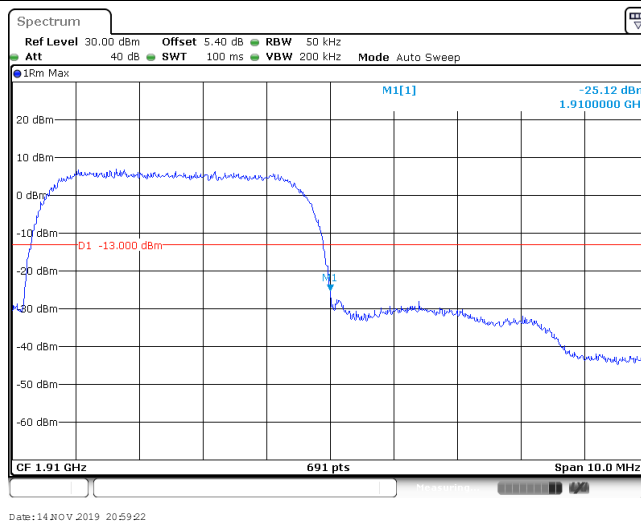
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5. Band Edge Compliance

5.1. Test Plots for QPSK

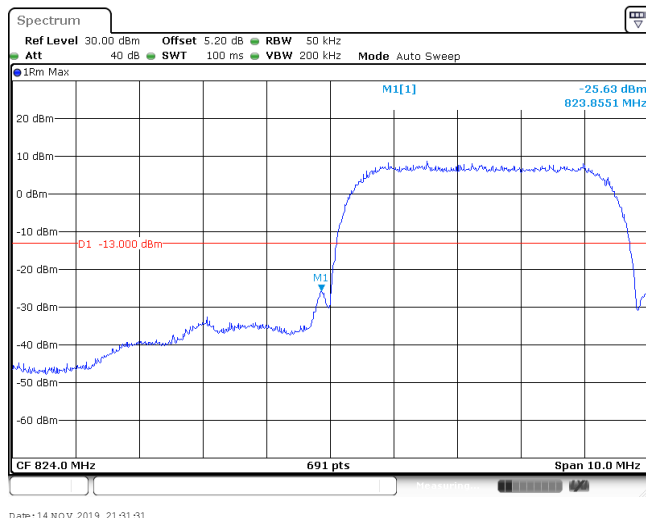


Band II_9262

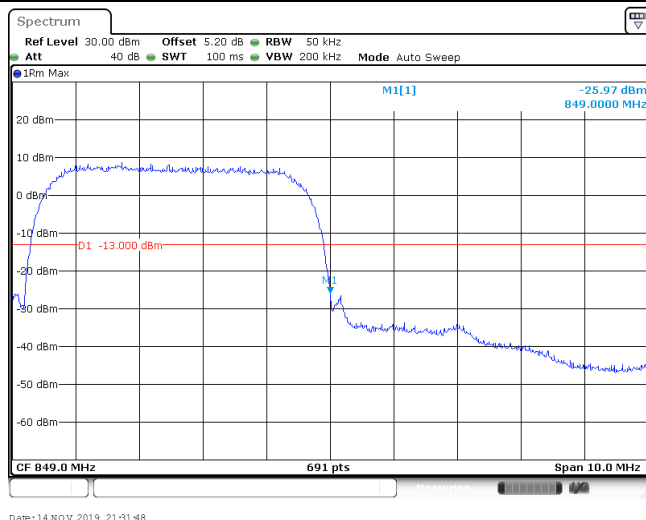


Band II_9538





Band V_4132

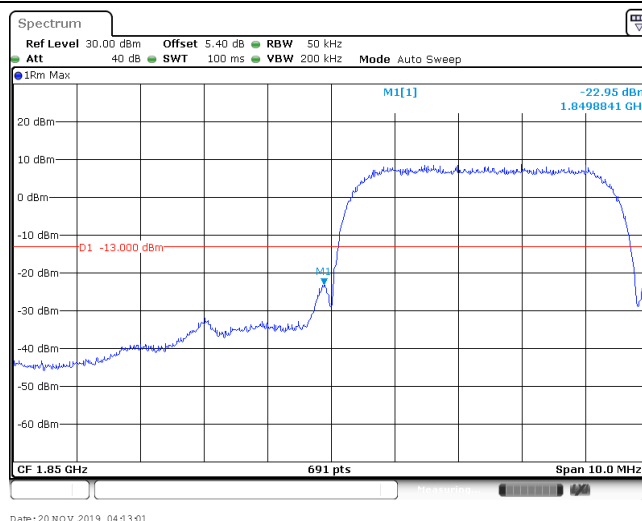


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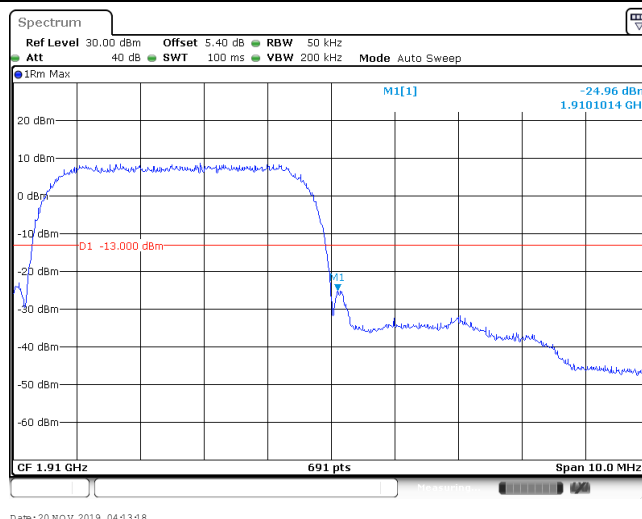




5.2. Test Plots for 16QAM

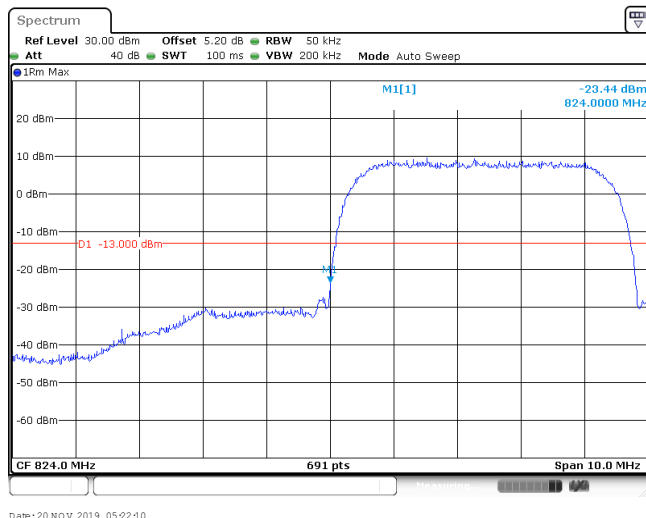


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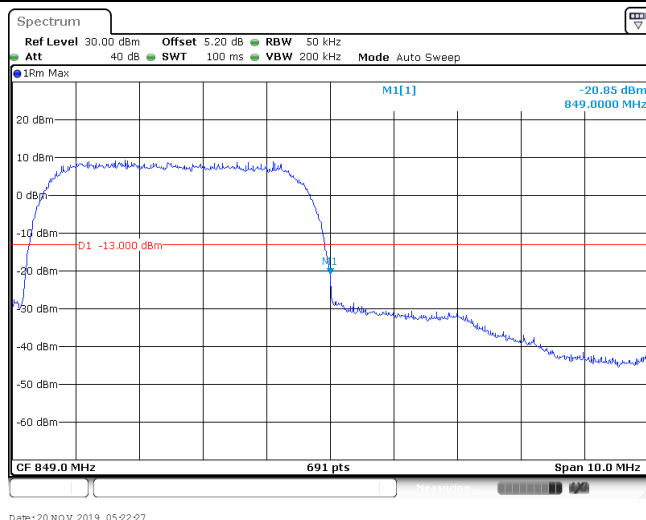


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Band V_4132



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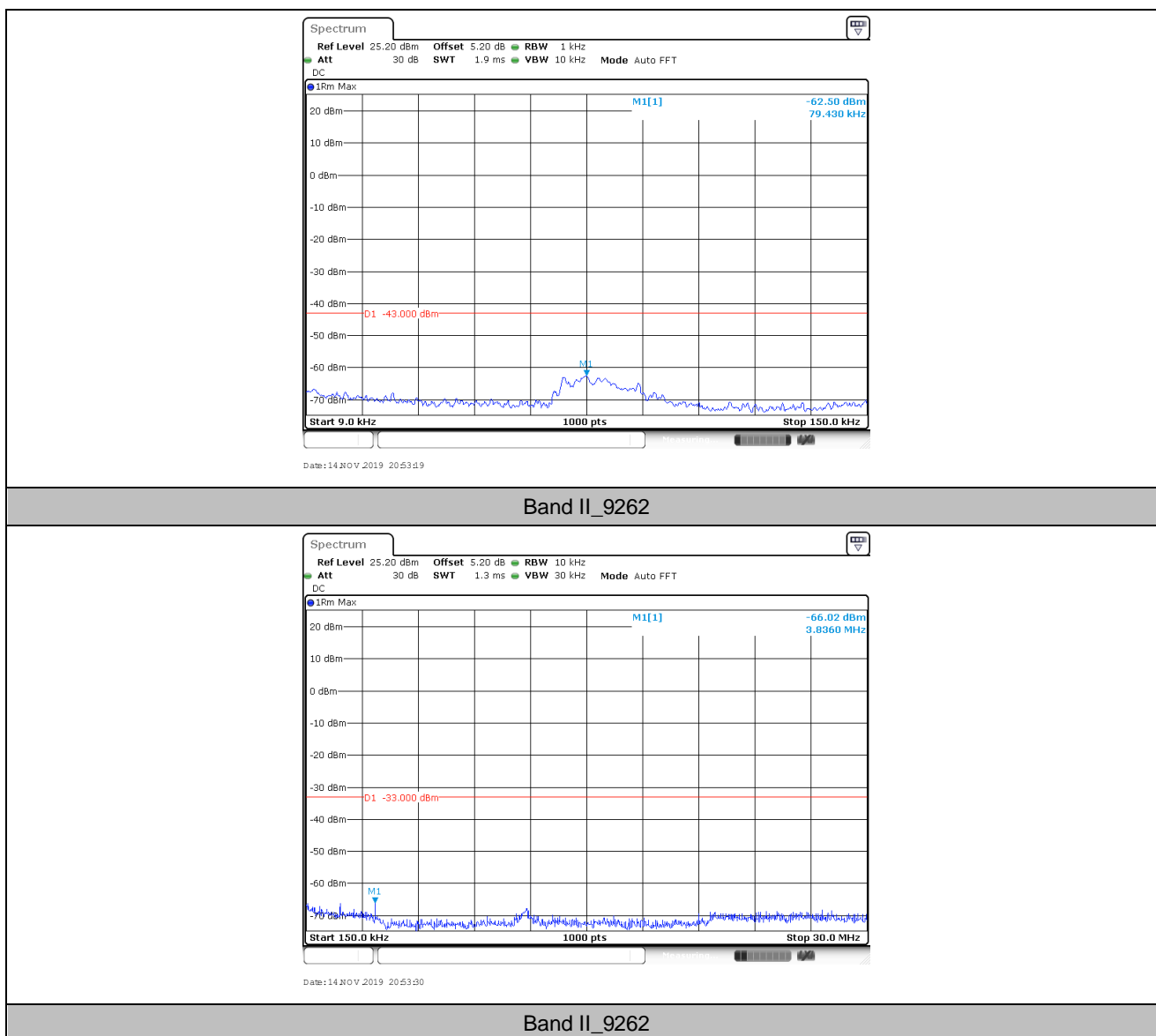


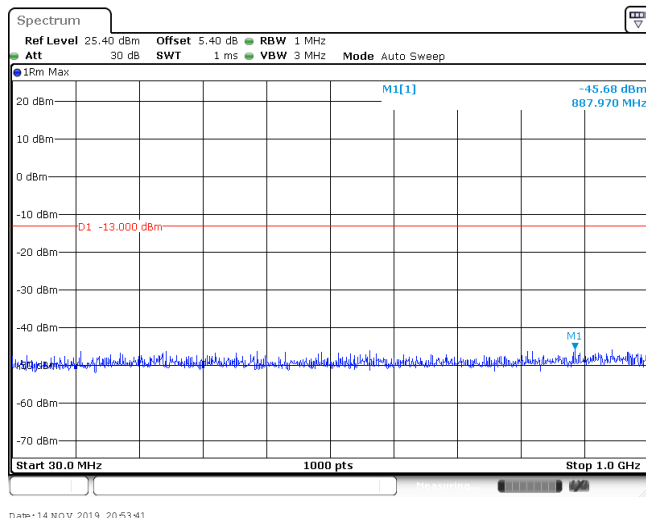
6. Spurious Emission at Antenna Terminal

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

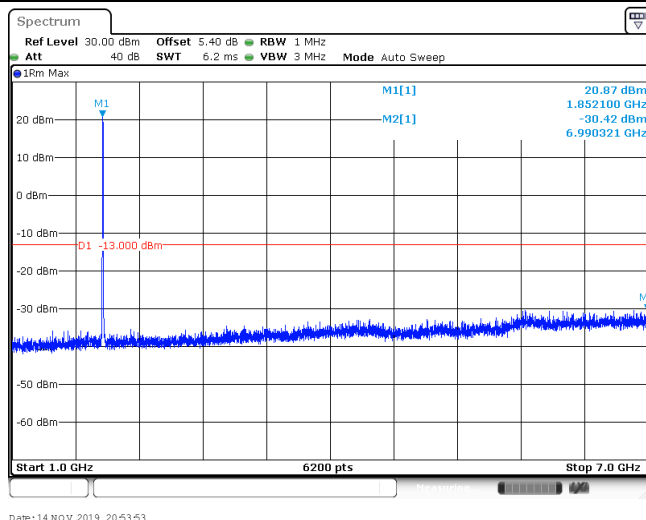
Remark2: only the worst case data displayed in this report.

6.1. Test Plots for QPSK





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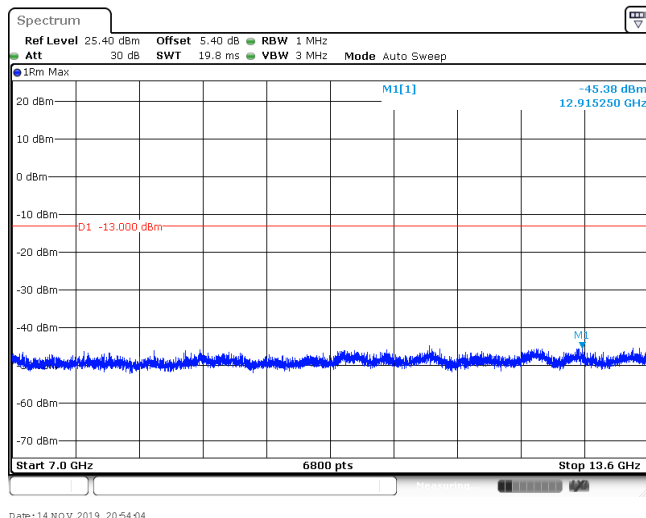


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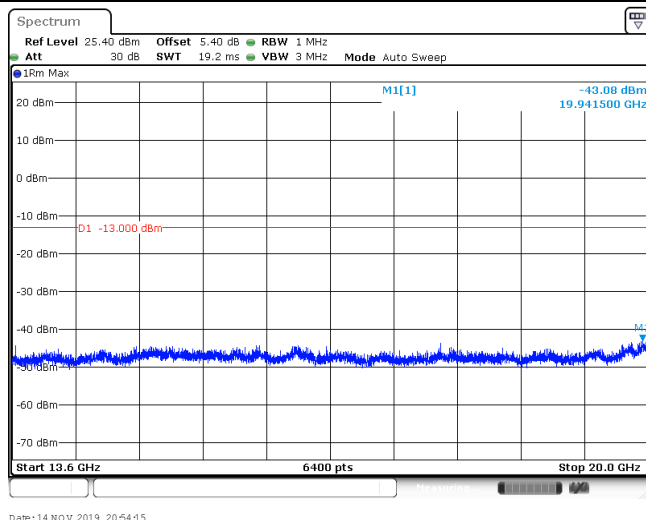


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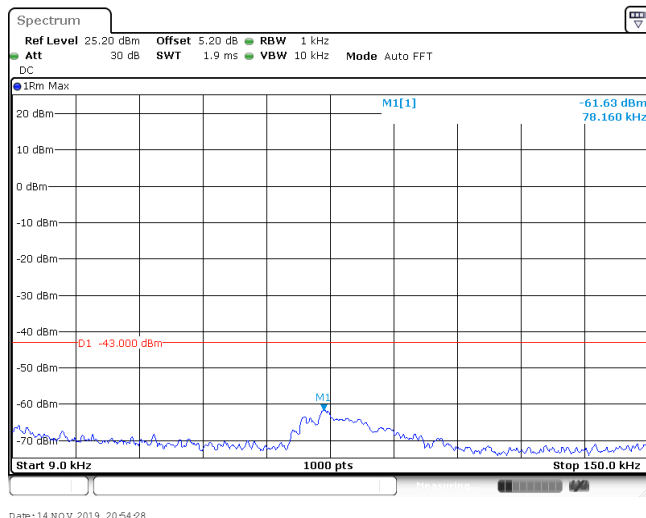


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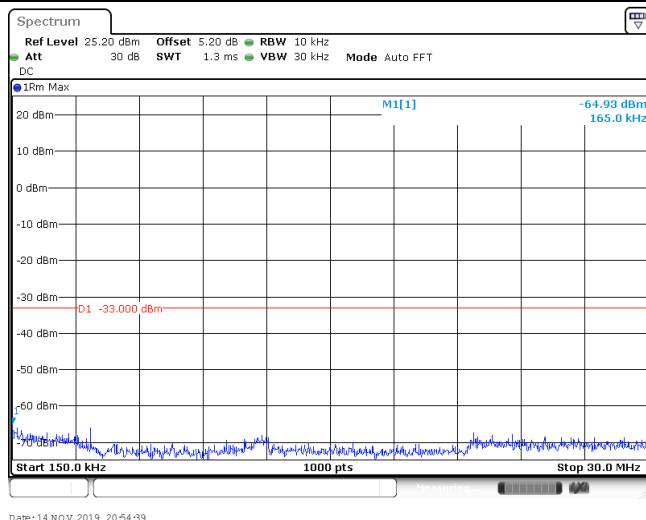


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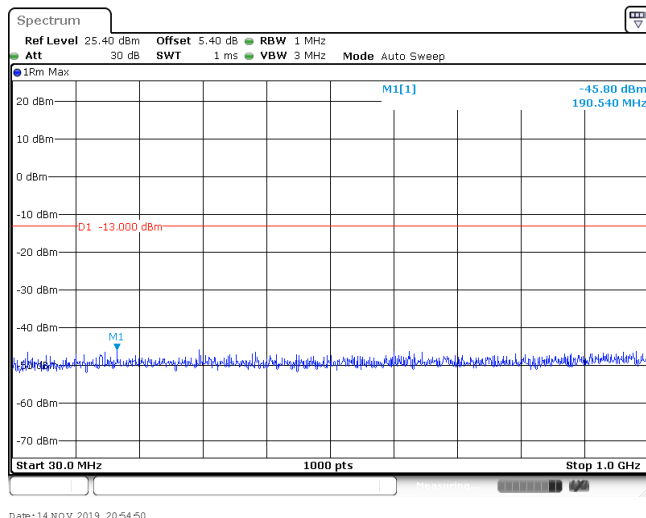
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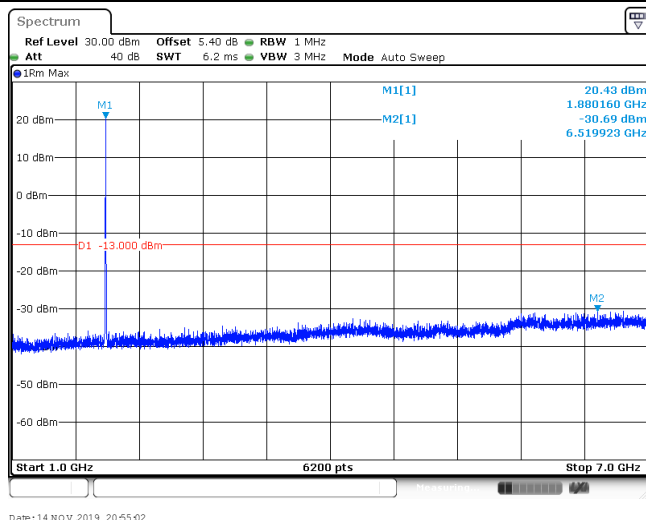
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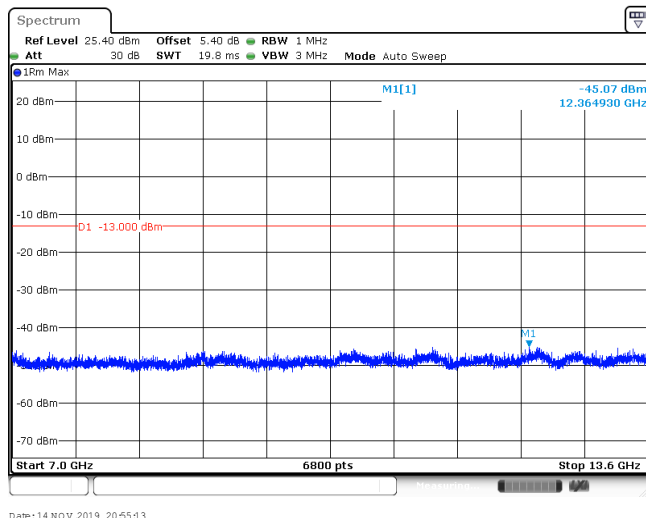
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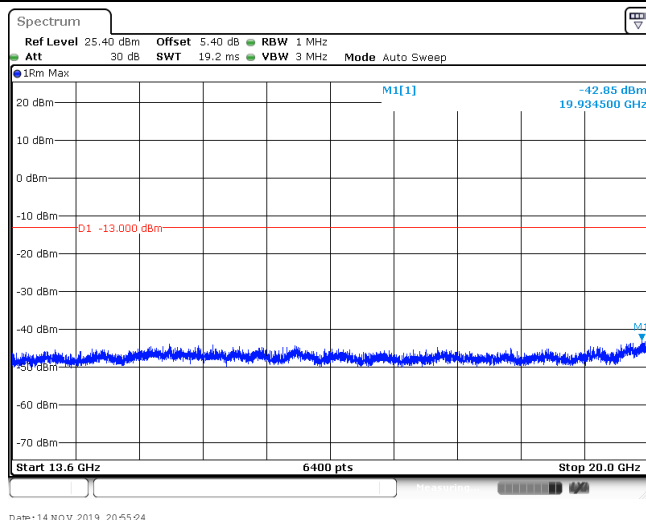
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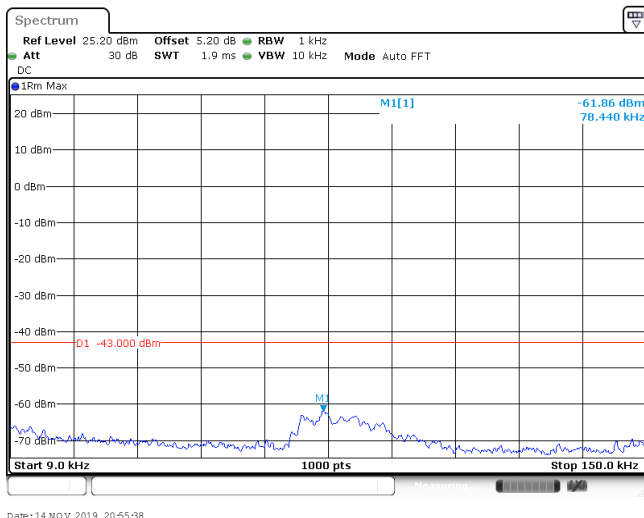


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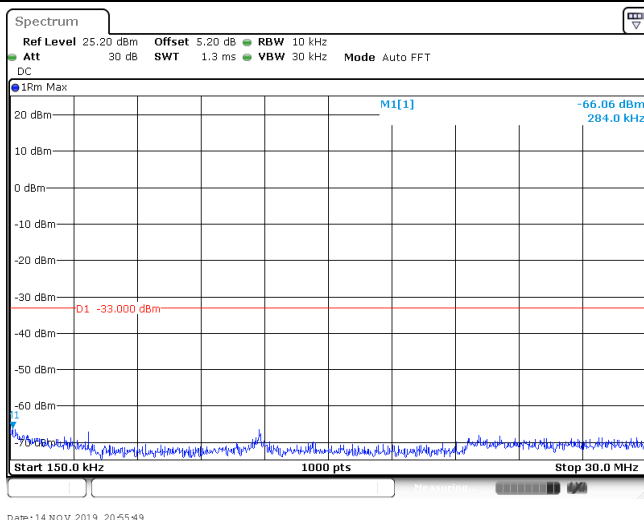


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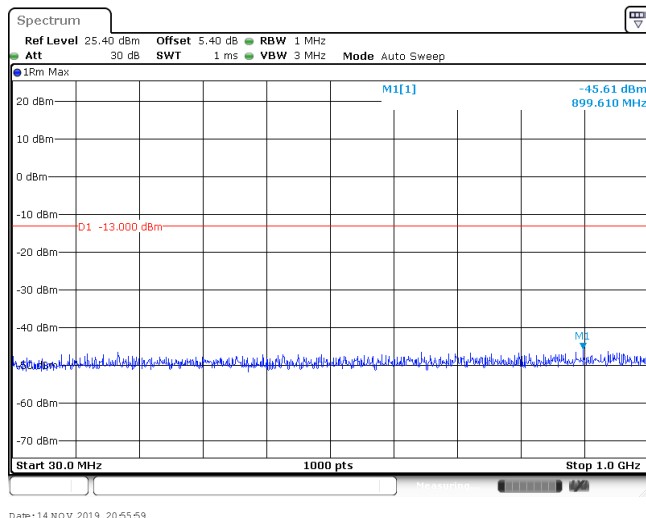
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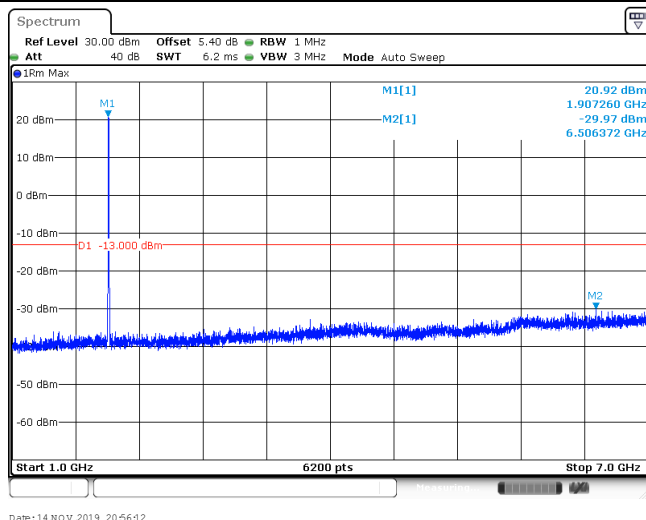
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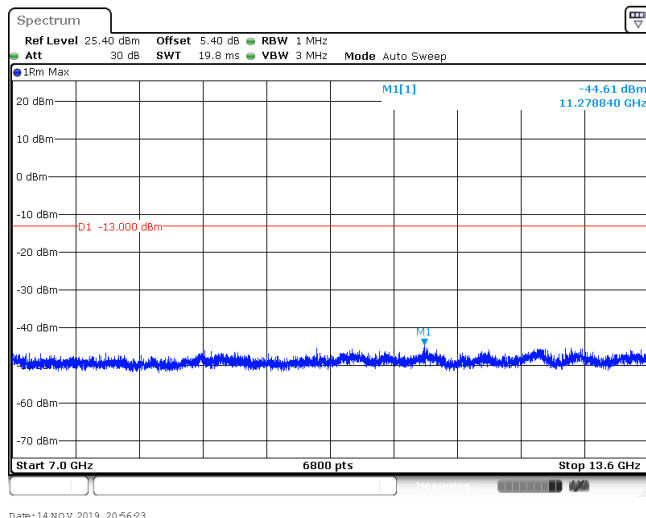
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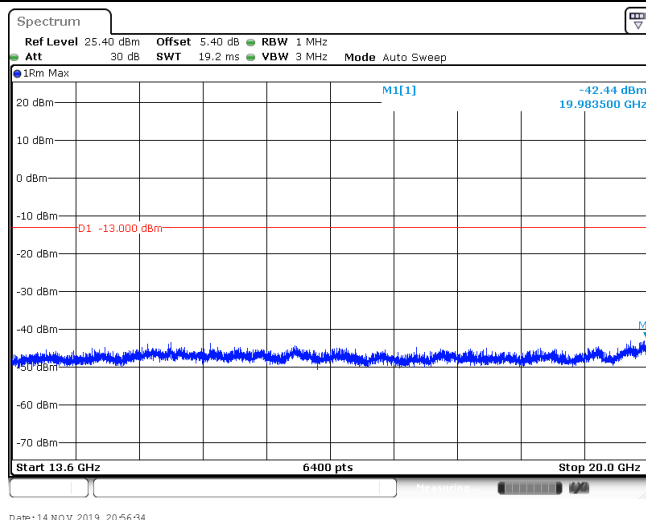
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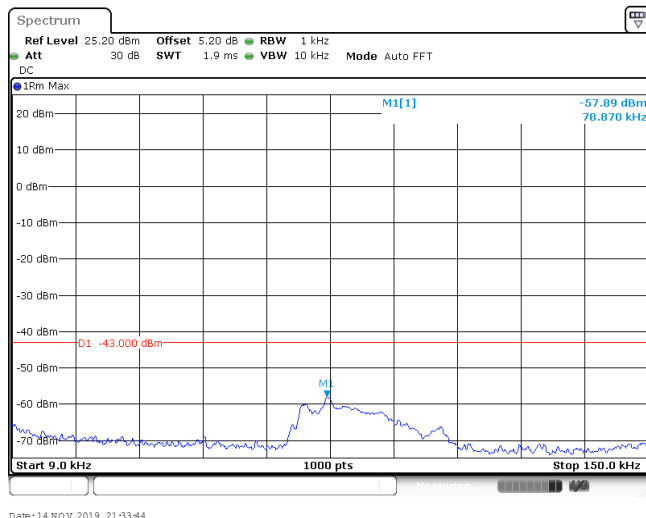


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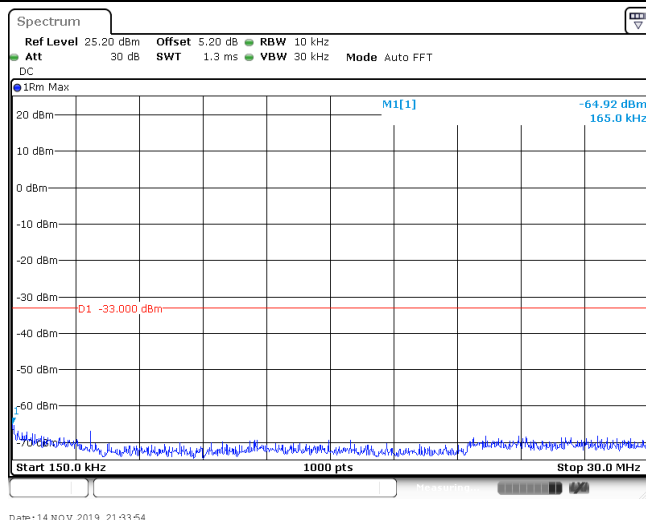


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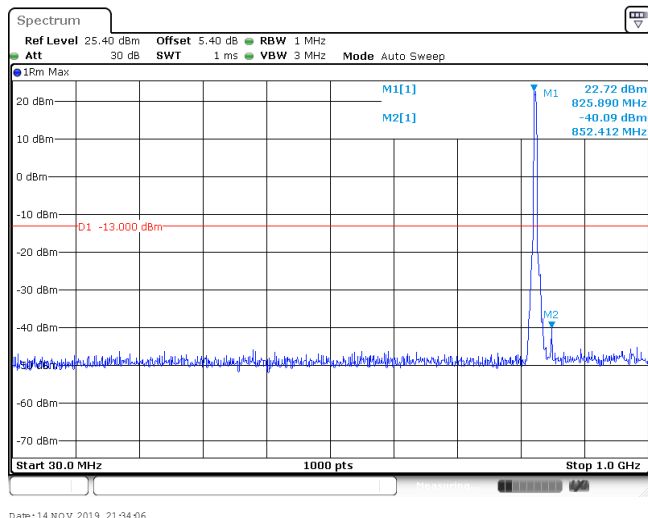
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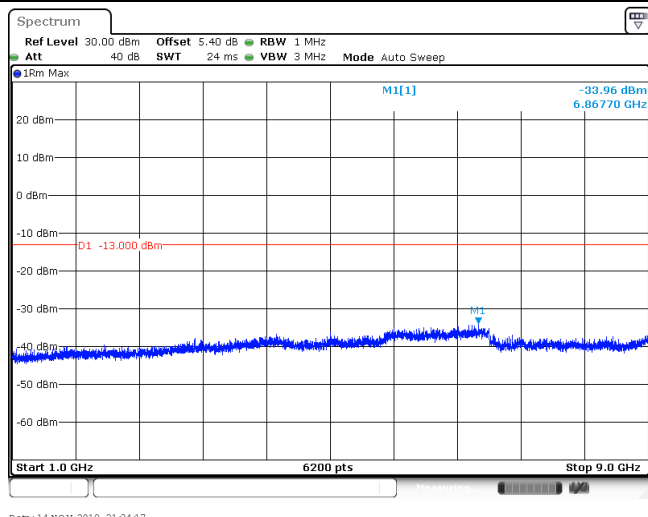
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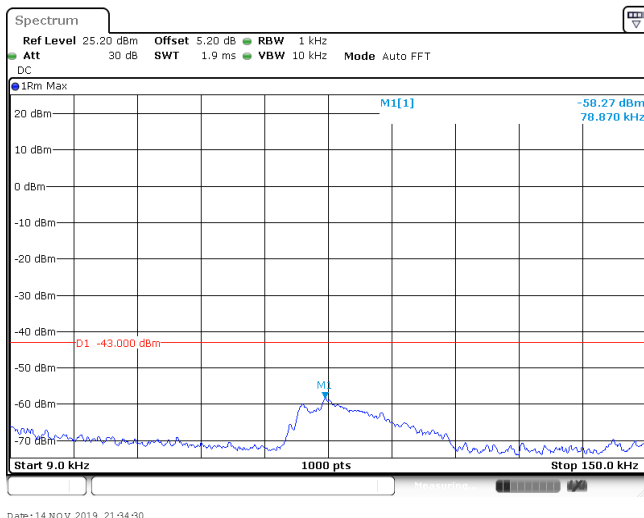
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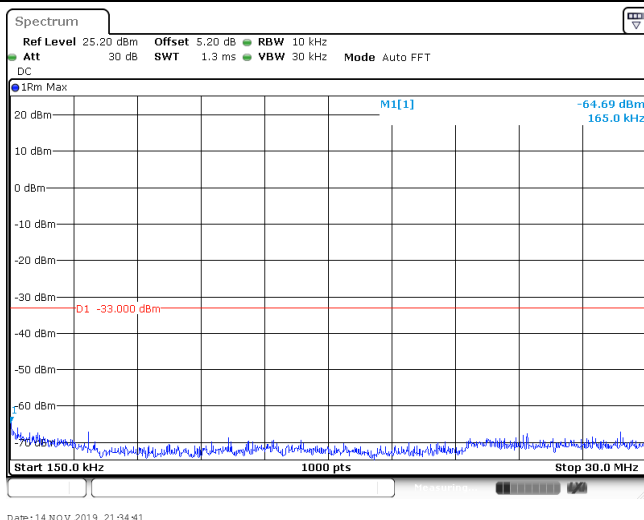


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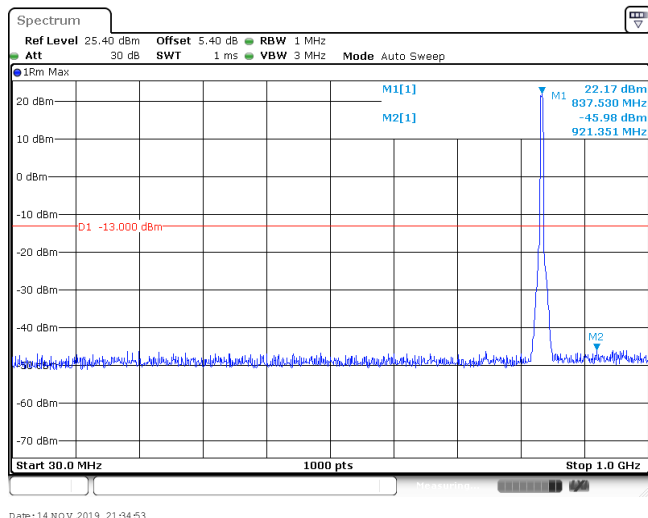
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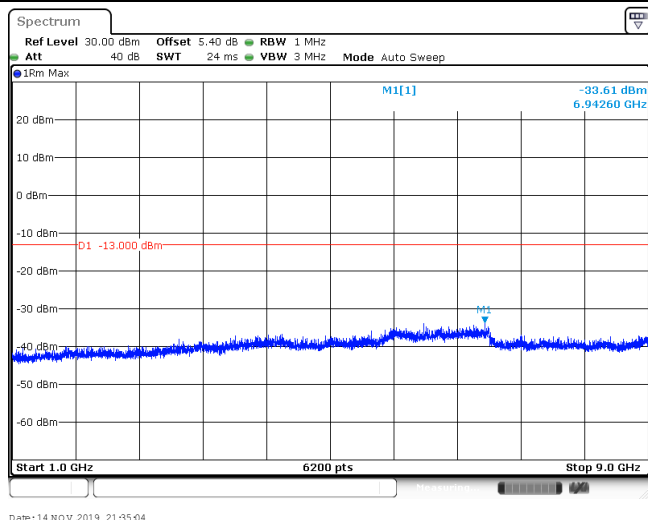
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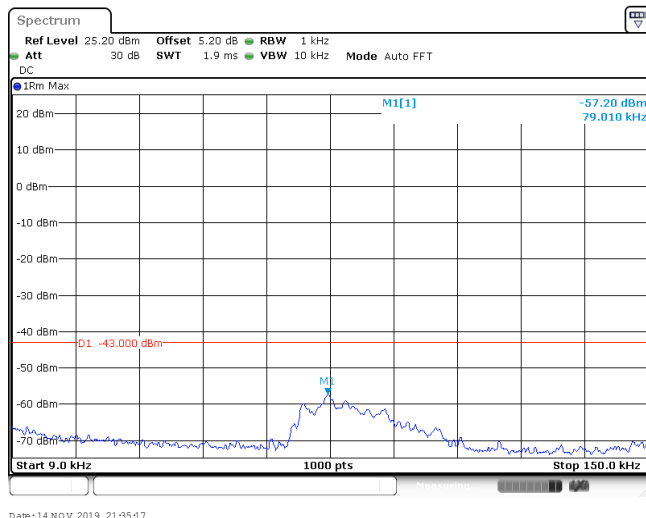
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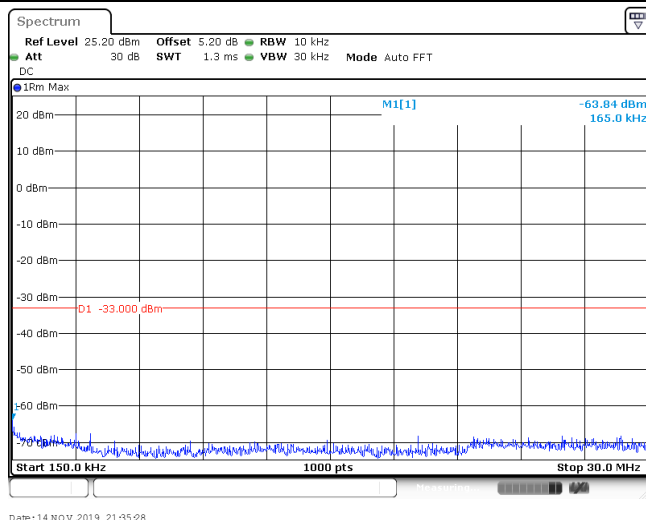
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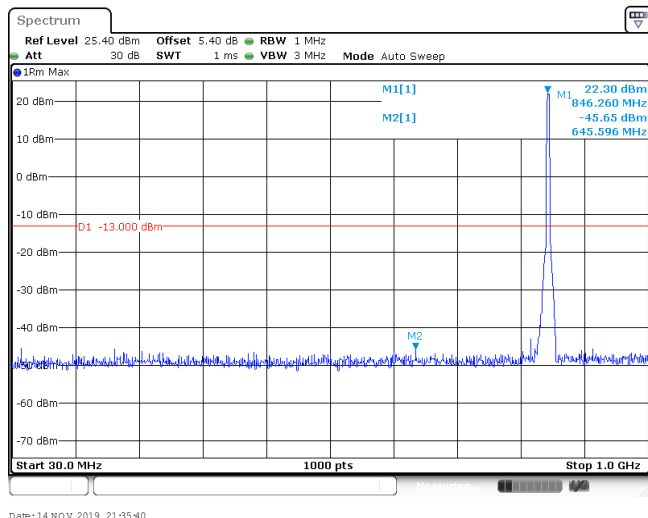
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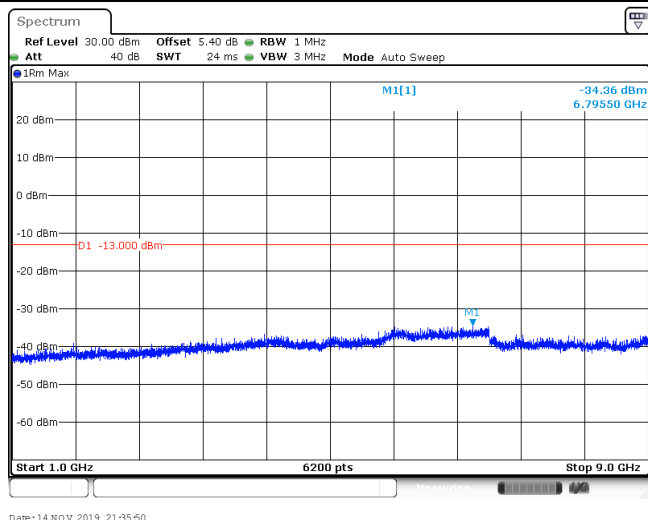
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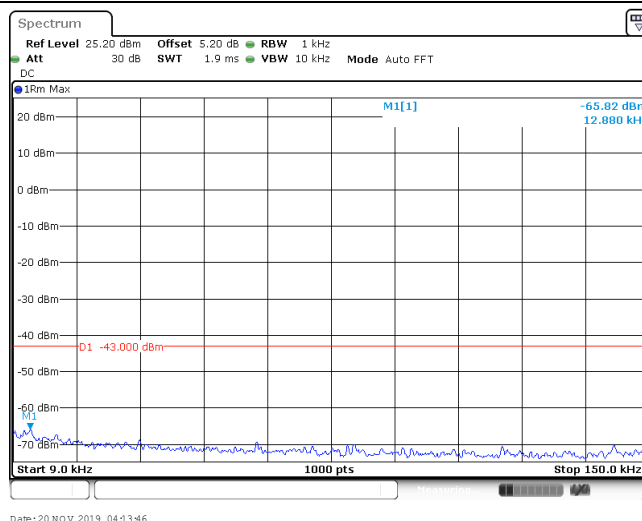


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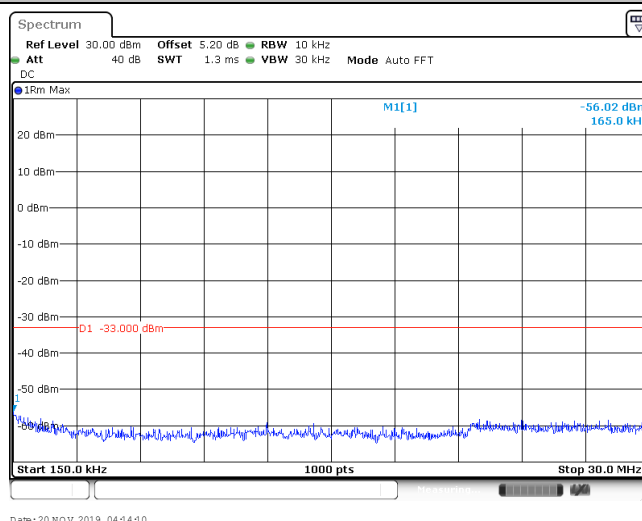
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6.2. Test Plots for 16QAM

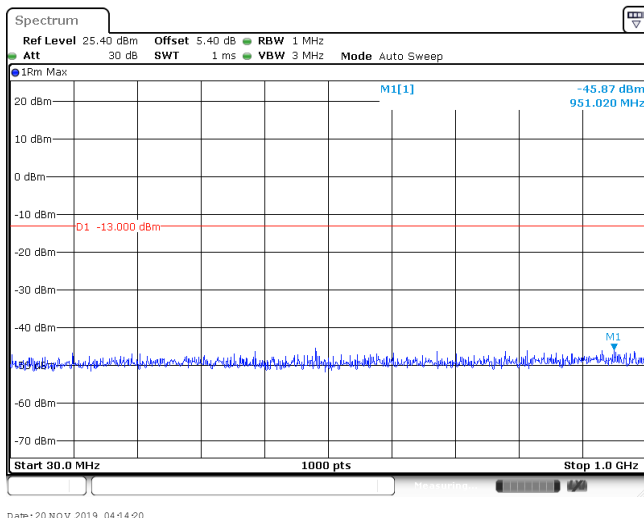


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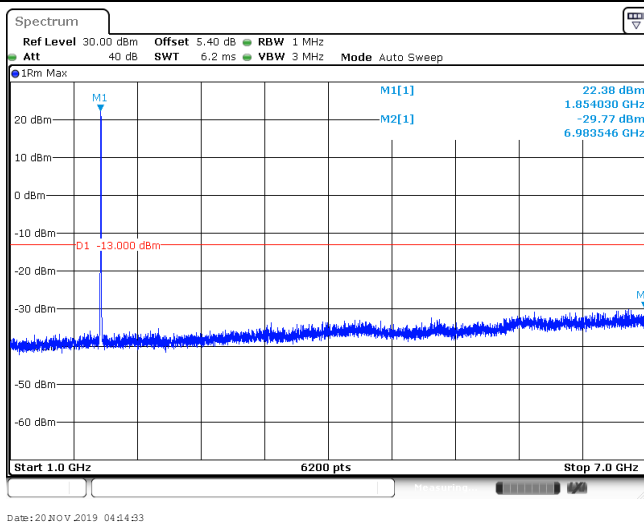


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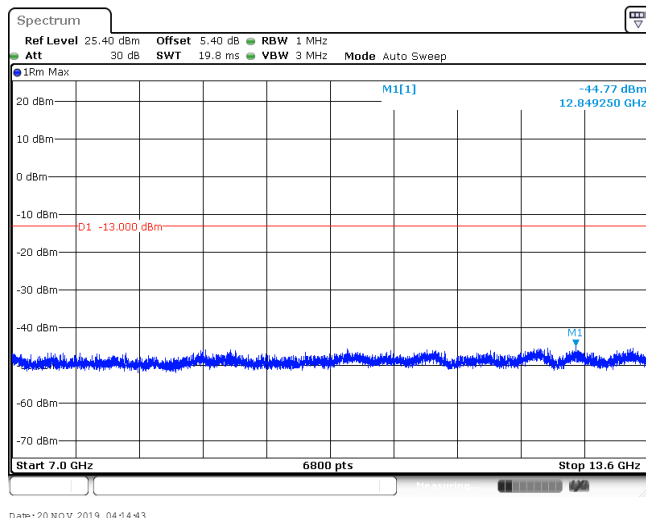
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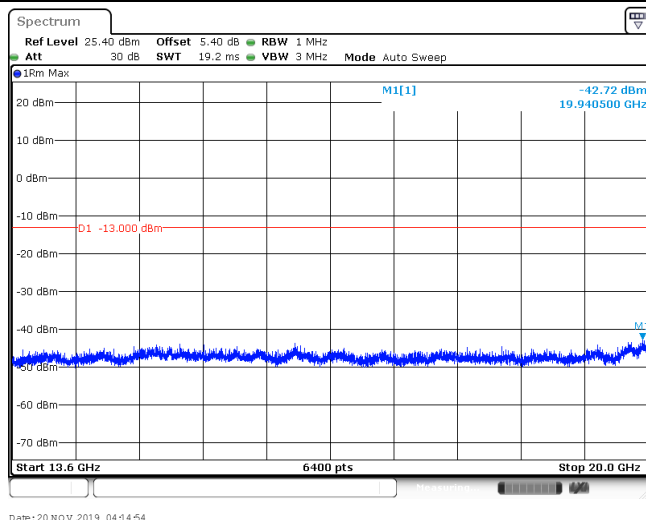
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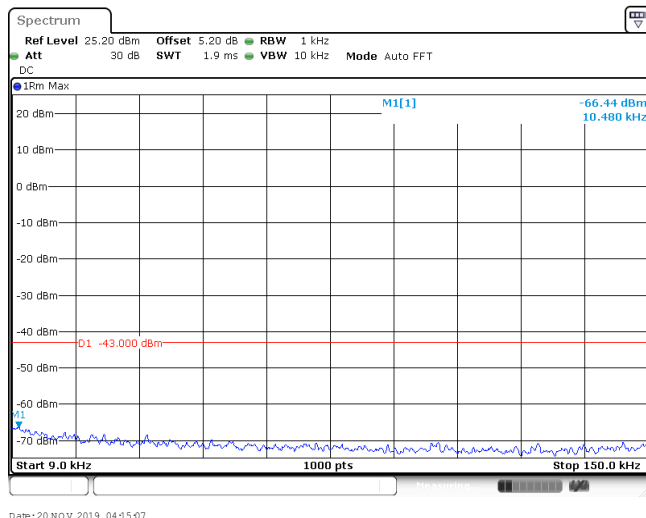


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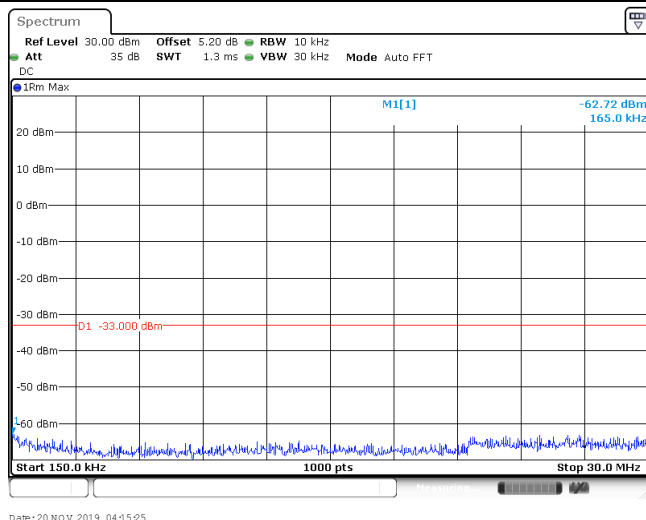


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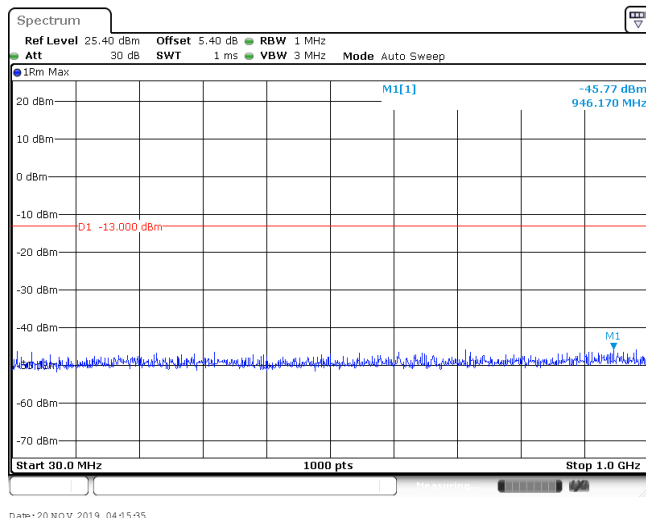


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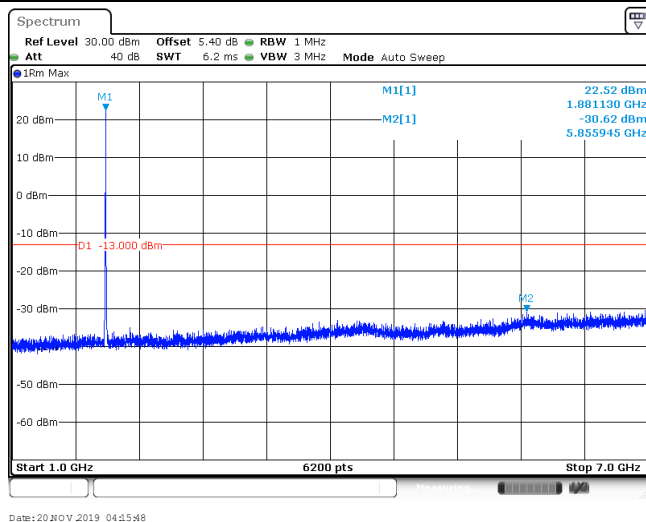


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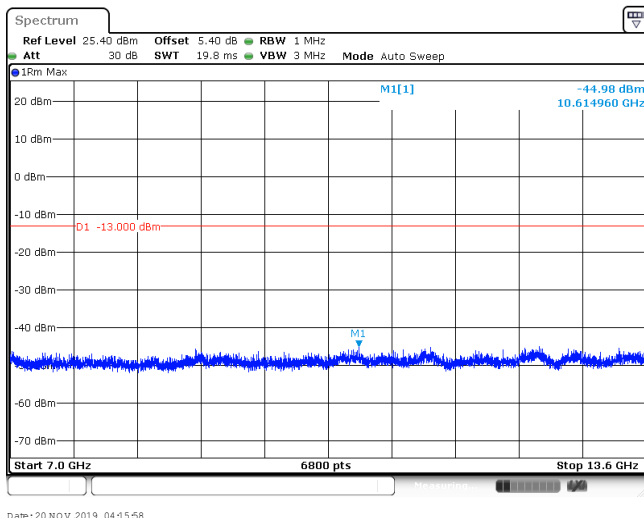


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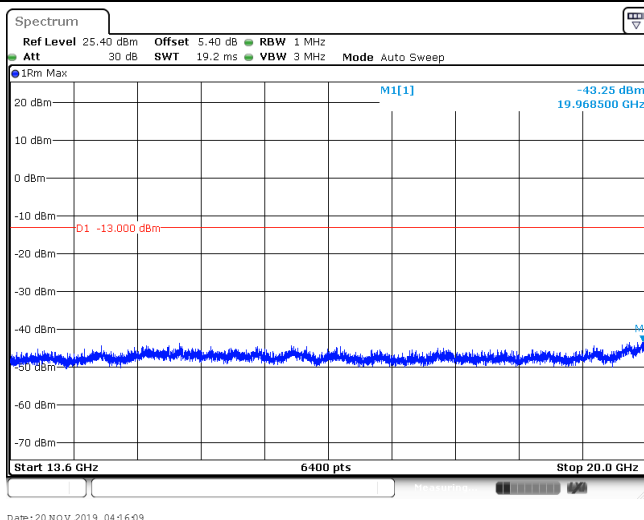


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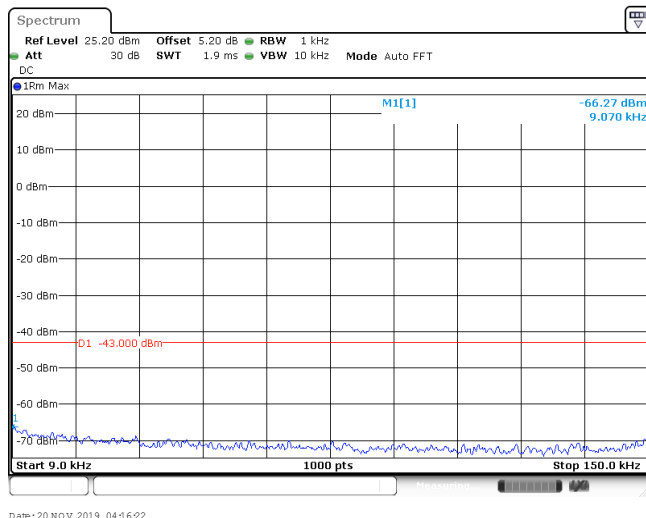
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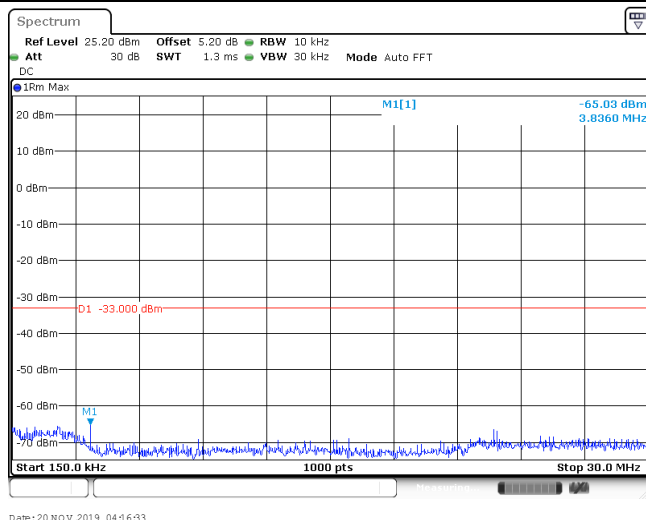
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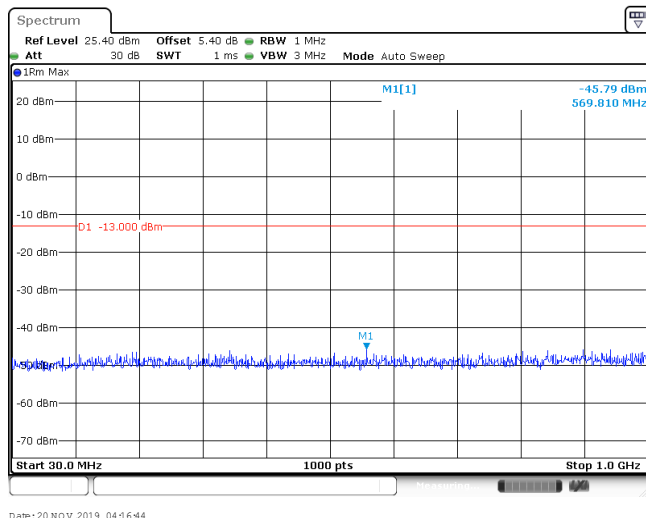
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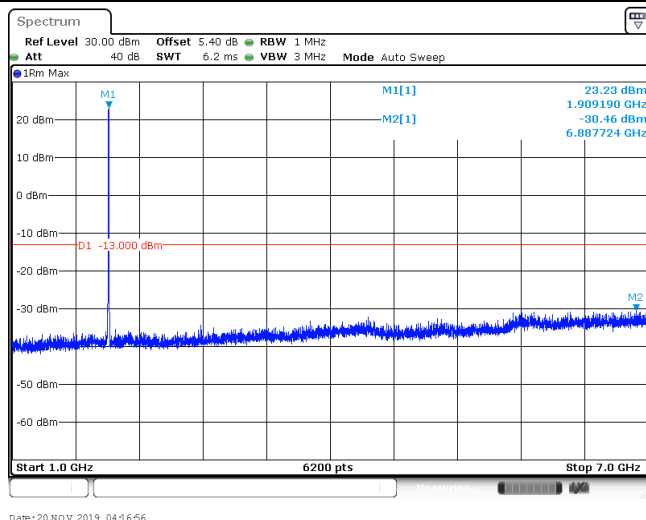
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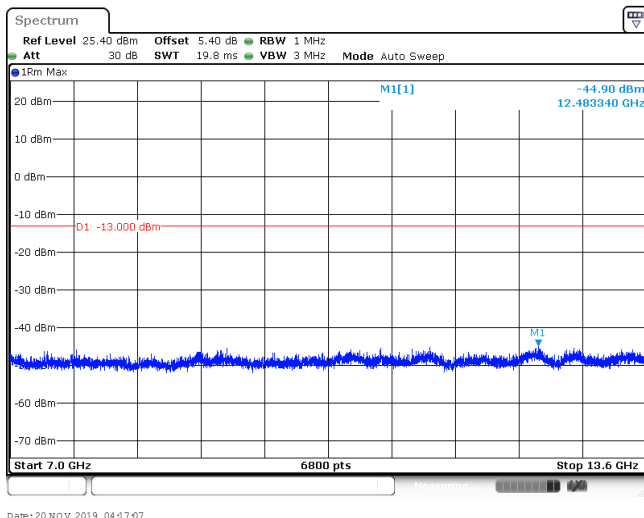
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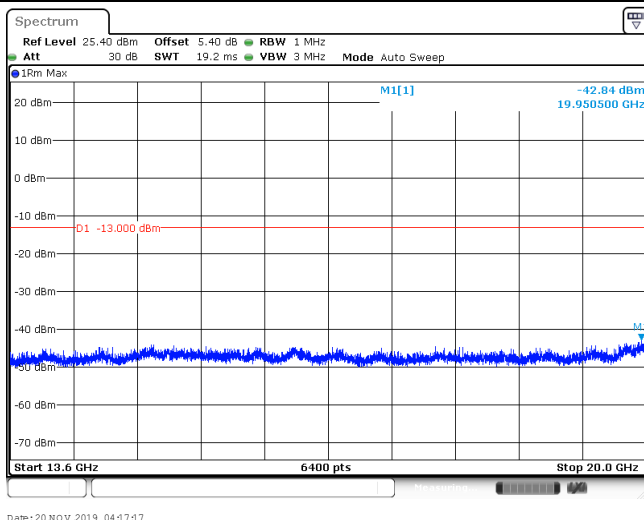
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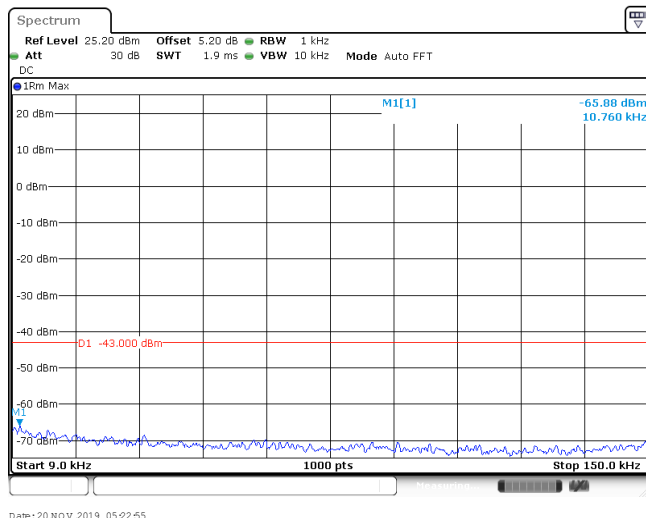


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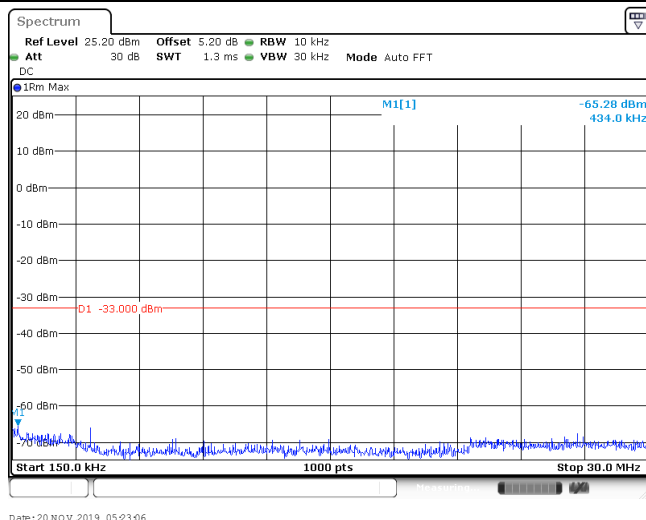


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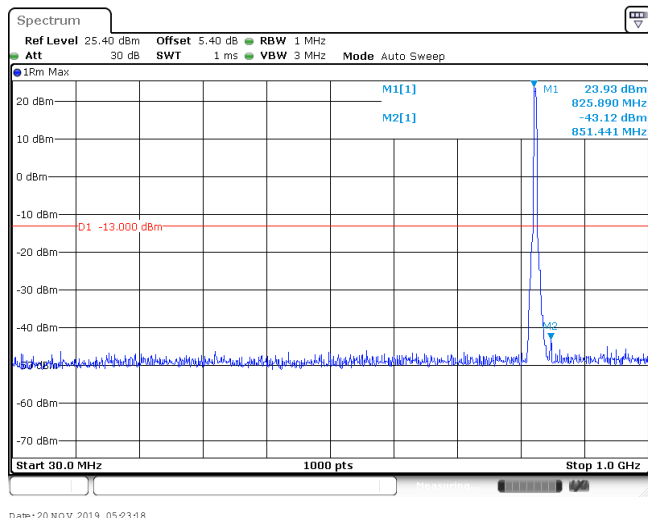
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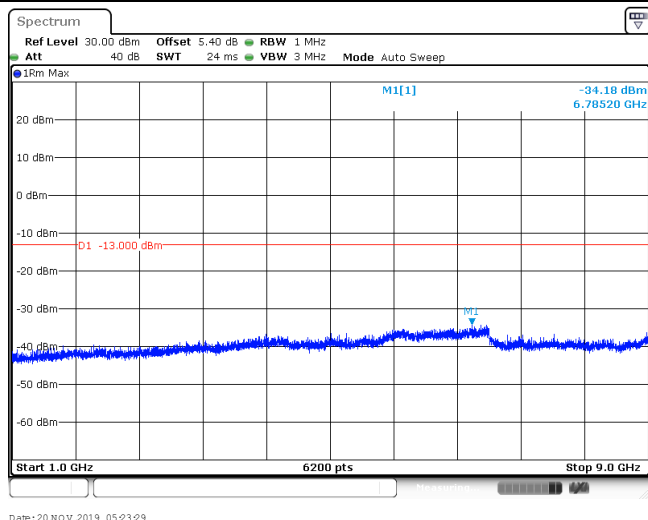
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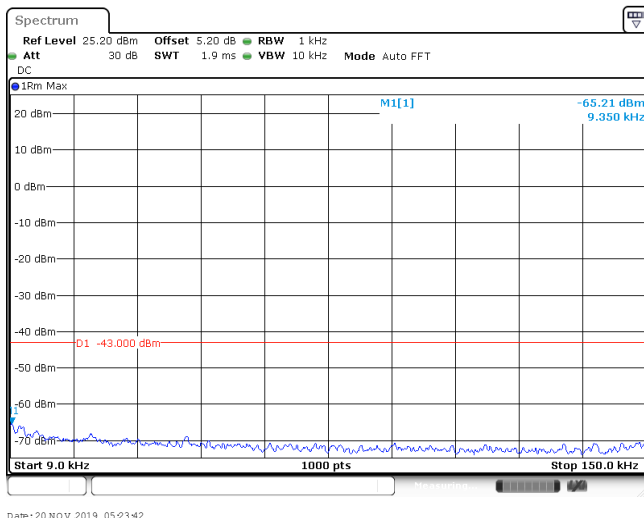
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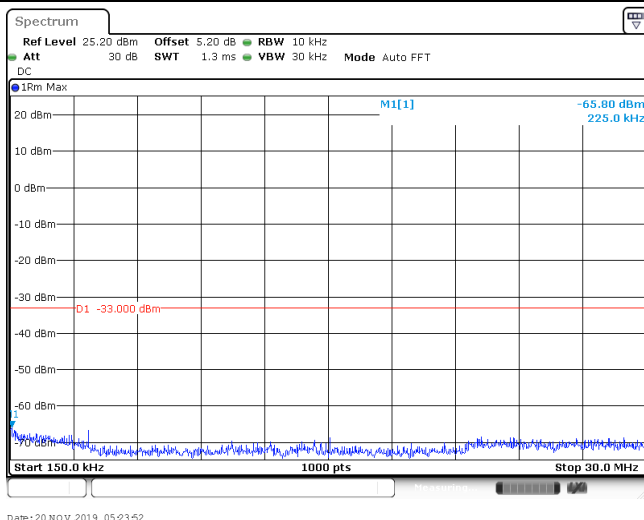
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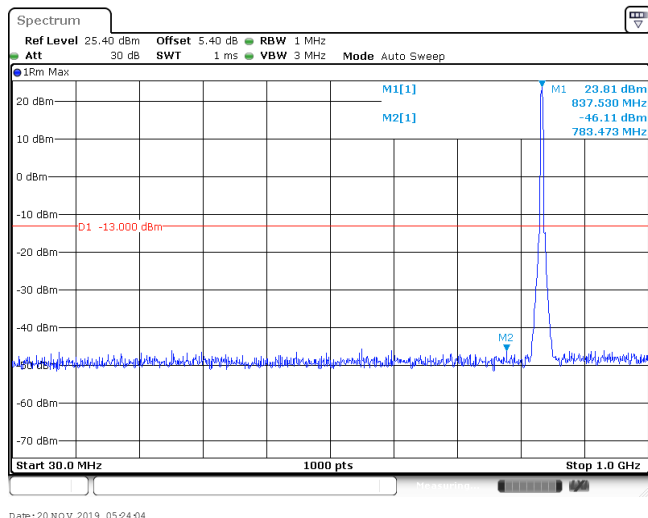


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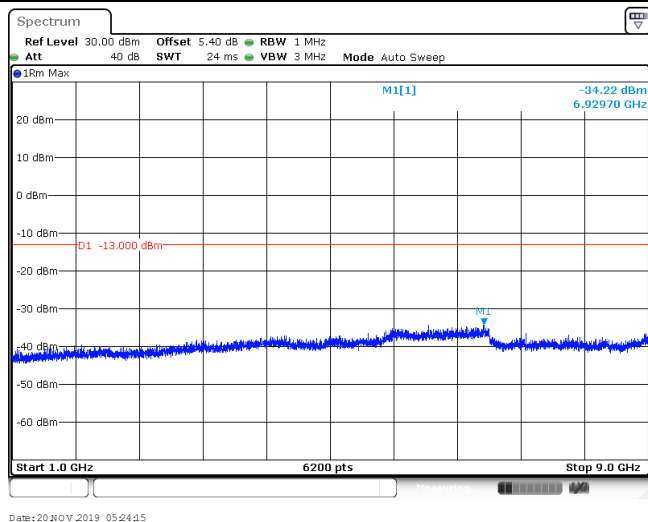


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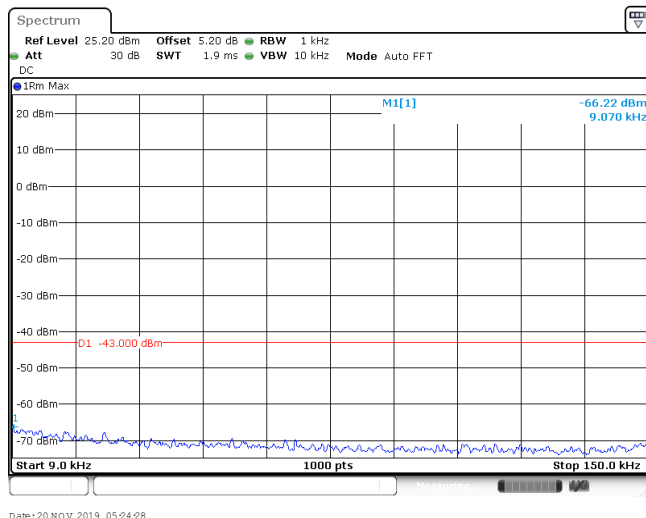


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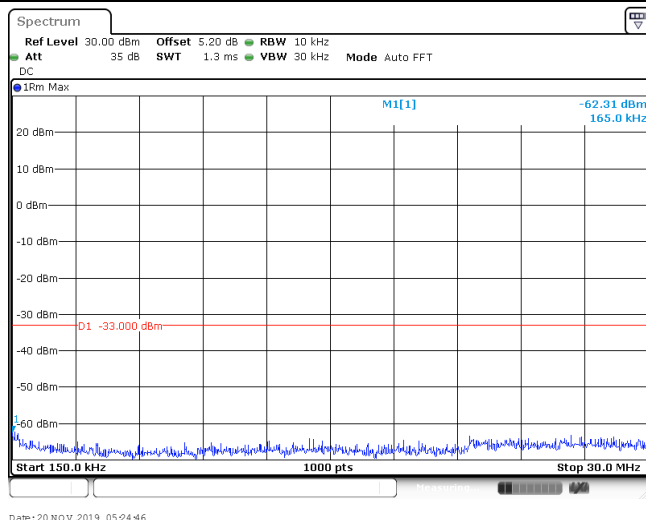


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Band V_4233



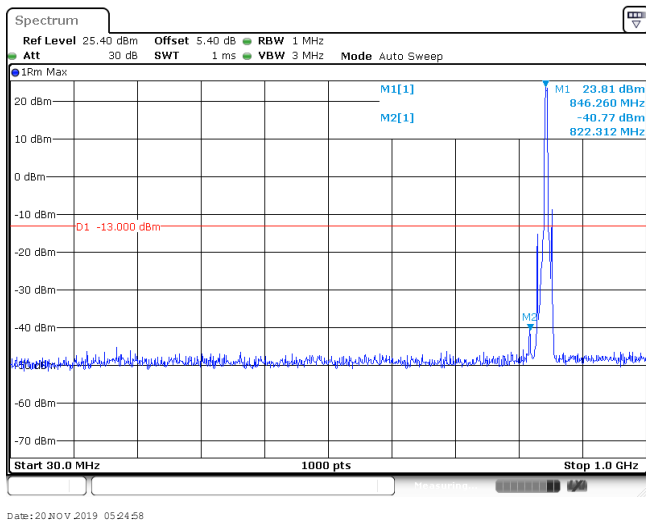
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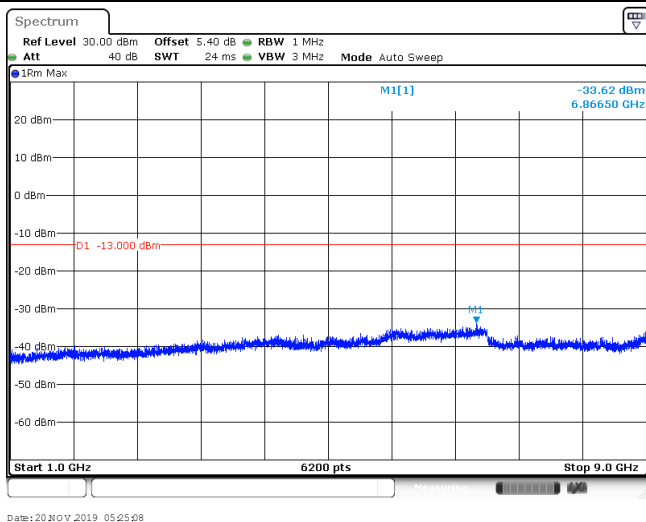
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7. Field Strength of Spurious Radiation

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
110.9020	-64.95	-13.00	51.95	252	288	Vertical
793.5252	-62.72	-13.00	49.72	199	193	Vertical
3706.5236	-52.07	-13.00	39.07	136	35	Vertical
5559.5853	-53.91	-13.00	40.91	172	4	Vertical
7409.6470	-42.66	-13.00	29.66	252	352	Vertical
17996.9999	-33.22	-13.00	20.22	167	352	Vertical
42.6591	-64.56	-13.00	51.56	296	353	Horizontal
233.7587	-68.27	-13.00	55.27	211	353	Horizontal
875.5913	-61.20	-13.00	48.20	273	257	Horizontal
3706.5236	-45.47	-13.00	32.47	211	35	Horizontal
5560.0853	-51.86	-13.00	38.86	275	194	Horizontal
16392.4464	-37.52	-13.00	24.52	173	257	Horizontal



7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
117.1589	-65.50	-13.00	52.50	132	193	Vertical
752.5891	-63.06	-13.00	50.06	217	193	Vertical
3758.0253	-50.62	-13.00	37.62	172	35	Vertical
5637.0879	-55.55	-13.00	42.55	169	4	Vertical
7520.1507	-45.23	-13.00	32.23	242	225	Vertical
17950.9984	-33.51	-13.00	20.51	211	352	Vertical
43.9202	-64.27	-13.00	51.27	232	194	Horizontal
234.9712	-68.57	-13.00	55.57	271	352	Horizontal
779.6050	-62.03	-13.00	49.03	199	35	Horizontal
3758.5253	-47.40	-13.00	34.40	172	67	Horizontal
5643.5881	-54.24	-13.00	41.24	122	194	Horizontal
16386.4462	-37.56	-13.00	24.56	197	289	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
105.1788	-65.51	-13.00	52.51	251	192	Vertical
3817.0272	-48.98	-13.00	35.98	222	35	Vertical
5726.5909	-54.48	-13.00	41.48	269	349	Vertical
7630.1543	-45.36	-13.00	32.36	244	224	Vertical
9543.2181	-45.99	-13.00	32.99	273	35	Vertical
17996.9999	-33.22	-13.00	20.22	172	349	Vertical
43.0472	-64.59	-13.00	51.59	184	193	Horizontal
233.3707	-68.55	-13.00	55.55	212	99	Horizontal
3817.0272	-47.18	-13.00	34.18	118	36	Horizontal
5719.5907	-52.82	-13.00	39.82	169	193	Horizontal
7634.1545	-51.80	-13.00	38.80	132	5	Horizontal
16404.4468	-37.34	-13.00	24.34	172	287	Horizontal



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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	-67.75	-13.00	54.75	263	130	Vertical
113.5697	-64.83	-13.00	51.83	272	229	Vertical
1654.5309	-55.15	-13.00	42.15	211	150	Vertical
2593.1186	-57.17	-13.00	44.17	252	110	Vertical
3309.5103	-58.06	-13.00	45.06	296	229	Vertical
17994.9998	-33.62	-13.00	20.62	241	4	Vertical
44.7932	-65.05	-13.00	52.05	176	288	Horizontal
232.9826	-68.58	-13.00	55.58	254	320	Horizontal
1654.5309	-52.22	-13.00	39.22	222	221	Horizontal
2593.1186	-55.00	-13.00	42.00	197	148	Horizontal
3309.5103	-56.09	-13.00	43.09	188	352	Horizontal
16403.4468	-37.45	-13.00	24.45	132	257	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
114.0547	-64.60	-13.00	51.60	119	4	Vertical
1671.3343	-55.91	-13.00	42.91	245	151	Vertical
2593.1186	-54.49	-13.00	41.49	221	286	Vertical
3341.5114	-59.48	-13.00	46.48	171	254	Vertical
4187.0396	-56.23	-13.00	43.23	188	35	Vertical
17999.5000	-33.35	-13.00	20.35	162	35	Vertical
43.9687	-64.37	-13.00	51.37	196	130	Horizontal
221.3421	-69.14	-13.00	56.14	275	357	Horizontal
1670.9342	-52.91	-13.00	39.91	143	216	Horizontal
2593.1186	-54.02	-13.00	41.02	272	183	Horizontal
3342.0114	-56.00	-13.00	43.00	166	357	Horizontal
16401.4467	-37.03	-13.00	24.03	173	161	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
110.2715	-66.00	-13.00	53.00	211	289	Vertical
622.4571	-63.99	-13.00	50.99	189	257	Vertical
1694.5389	-54.34	-13.00	41.34	272	327	Vertical
2593.1186	-52.12	-13.00	39.12	242	278	Vertical
4238.0413	-55.93	-13.00	42.93	269	35	Vertical
17999.0000	-33.55	-13.00	20.55	234	99	Vertical
46.1998	-65.87	-13.00	52.87	175	101	Horizontal
237.2509	-68.23	-13.00	55.23	124	358	Horizontal
1694.5389	-52.25	-13.00	39.25	118	220	Horizontal
2593.1186	-50.85	-13.00	37.85	195	106	Horizontal
3382.5128	-56.81	-13.00	43.81	243	327	Horizontal
16389.9463	-37.37	-13.00	24.37	266	295	Horizontal



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Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	-19.09	-0.010306	±2.5	PASS
Band II	QPSK	9262	VN	TN	-10.64	-0.005742	±2.5	PASS
Band II	QPSK	9262	VH	TN	-10.76	-0.005811	±2.5	PASS
Band II	QPSK	9400	VL	TN	-7.88	-0.004193	±2.5	PASS
Band II	QPSK	9400	VN	TN	-5.16	-0.002743	±2.5	PASS
Band II	QPSK	9400	VH	TN	-18.86	-0.010033	±2.5	PASS
Band II	QPSK	9538	VL	TN	-14.72	-0.007716	±2.5	PASS
Band II	QPSK	9538	VN	TN	-10.21	-0.005351	±2.5	PASS
Band II	QPSK	9538	VH	TN	-18.35	-0.009621	±2.5	PASS
Band II	16QAM	9262	VL	TN	-6.45	-0.007807	±2.5	PASS
Band II	16QAM	9262	VN	TN	-14.35	-0.017362	±2.5	PASS
Band II	16QAM	9262	VH	TN	-6.66	-0.008058	±2.5	PASS
Band II	16QAM	9400	VL	TN	-6.47	-0.007731	±2.5	PASS
Band II	16QAM	9400	VN	TN	-15.21	-0.018181	±2.5	PASS
Band II	16QAM	9400	VH	TN	-11.65	-0.013931	±2.5	PASS
Band II	16QAM	9538	VL	TN	-13.41	-0.015841	±2.5	PASS
Band II	16QAM	9538	VN	TN	-10.94	-0.012926	±2.5	PASS
Band II	16QAM	9538	VH	TN	-11.88	-0.014033	±2.5	PASS
Band V	QPSK	4132	VL	TN	-6.73	-0.008144	±2.5	PASS
Band V	QPSK	4132	VN	TN	-3.80	-0.004596	±2.5	PASS
Band V	QPSK	4132	VH	TN	-3.20	-0.003877	±2.5	PASS
Band V	QPSK	4182	VL	TN	-3.48	-0.004156	±2.5	PASS
Band V	QPSK	4182	VN	TN	-5.72	-0.006841	±2.5	PASS
Band V	QPSK	4182	VH	TN	-6.17	-0.007371	±2.5	PASS
Band V	QPSK	4233	VL	TN	-9.30	-0.010983	±2.5	PASS
Band V	QPSK	4233	VN	TN	-11.08	-0.013087	±2.5	PASS
Band V	QPSK	4233	VH	TN	-9.31	-0.010992	±2.5	PASS
Band V	16QAM	4132	VL	TN	3.31	0.004009	±2.5	PASS
Band V	16QAM	4132	VN	TN	-13.34	-0.016145	±2.5	PASS
Band V	16QAM	4132	VH	TN	2.51	0.003035	±2.5	PASS
Band V	16QAM	4182	VL	TN	0.05	0.000061	±2.5	PASS
Band V	16QAM	4182	VN	TN	-9.44	-0.011288	±2.5	PASS
Band V	16QAM	4182	VH	TN	-12.27	-0.014671	±2.5	PASS
Band V	16QAM	4233	VL	TN	4.27	0.005042	±2.5	PASS
Band V	16QAM	4233	VN	TN	-3.27	-0.003862	±2.5	PASS
Band V	16QAM	4233	VH	TN	-12.98	-0.015332	±2.5	PASS



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8.2. Frequency Vs Temperature

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	-9.15	-0.004939	± 2.5	PASS
Band II	QPSK	9262	VN	-20	-14.53	-0.007846	± 2.5	PASS
Band II	QPSK	9262	VN	-10	-10.14	-0.005471	± 2.5	PASS
Band II	QPSK	9262	VN	0	-9.25	-0.004993	± 2.5	PASS
Band II	QPSK	9262	VN	10	-17.47	-0.009433	± 2.5	PASS
Band II	QPSK	9262	VN	20	-19.35	-0.010445	± 2.5	PASS
Band II	QPSK	9262	VN	30	-11.88	-0.006414	± 2.5	PASS
Band II	QPSK	9262	VN	40	-11.85	-0.006398	± 2.5	PASS
Band II	QPSK	9262	VN	50	-7.67	-0.004139	± 2.5	PASS
Band II	QPSK	9400	VN	-30	-19.01	-0.010113	± 2.5	PASS
Band II	QPSK	9400	VN	-20	-15.79	-0.008397	± 2.5	PASS
Band II	QPSK	9400	VN	-10	-15.36	-0.008168	± 2.5	PASS
Band II	QPSK	9400	VN	0	-14.41	-0.007666	± 2.5	PASS
Band II	QPSK	9400	VN	10	-12.21	-0.006494	± 2.5	PASS
Band II	QPSK	9400	VN	20	-15.71	-0.008355	± 2.5	PASS
Band II	QPSK	9400	VN	30	-18.40	-0.009785	± 2.5	PASS
Band II	QPSK	9400	VN	40	-16.62	-0.008838	± 2.5	PASS
Band II	QPSK	9400	VN	50	-8.69	-0.004623	± 2.5	PASS
Band II	QPSK	9538	VN	-30	-22.32	-0.011702	± 2.5	PASS
Band II	QPSK	9538	VN	-20	-18.62	-0.009760	± 2.5	PASS
Band II	QPSK	9538	VN	-10	-17.17	-0.009003	± 2.5	PASS
Band II	QPSK	9538	VN	0	-13.17	-0.006903	± 2.5	PASS
Band II	QPSK	9538	VN	10	-13.68	-0.007173	± 2.5	PASS
Band II	QPSK	9538	VN	20	-13.83	-0.007248	± 2.5	PASS
Band II	QPSK	9538	VN	30	-11.16	-0.005849	± 2.5	PASS
Band II	QPSK	9538	VN	40	-19.92	-0.010442	± 2.5	PASS
Band II	QPSK	9538	VN	50	-12.36	-0.006479	± 2.5	PASS
Band II	16QAM	9262	VN	-30	-7.28	-0.008811	± 2.5	PASS
Band II	16QAM	9262	VN	-20	-4.14	-0.005011	± 2.5	PASS
Band II	16QAM	9262	VN	-10	-13.78	-0.016678	± 2.5	PASS
Band II	16QAM	9262	VN	0	-5.14	-0.006223	± 2.5	PASS
Band II	16QAM	9262	VN	10	-7.37	-0.008915	± 2.5	PASS
Band II	16QAM	9262	VN	20	-12.76	-0.015441	± 2.5	PASS
Band II	16QAM	9262	VN	30	-12.60	-0.015250	± 2.5	PASS
Band II	16QAM	9262	VN	40	-2.34	-0.002830	± 2.5	PASS
Band II	16QAM	9262	VN	50	-8.24	-0.009971	± 2.5	PASS
Band II	16QAM	9400	VN	-30	-11.39	-0.013614	± 2.5	PASS
Band II	16QAM	9400	VN	-20	-10.04	-0.012006	± 2.5	PASS
Band II	16QAM	9400	VN	-10	-9.94	-0.011887	± 2.5	PASS
Band II	16QAM	9400	VN	0	-11.02	-0.013178	± 2.5	PASS
Band II	16QAM	9400	VN	10	-12.06	-0.014418	± 2.5	PASS
Band II	16QAM	9400	VN	20	-8.54	-0.010211	± 2.5	PASS



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Band II	16QAM	9400	VN	30	-5.49	-0.006568	±2.5	PASS
Band II	16QAM	9400	VN	40	-11.57	-0.013828	±2.5	PASS
Band II	16QAM	9400	VN	50	-5.82	-0.006961	±2.5	PASS
Band II	16QAM	9538	VN	-30	-10.34	-0.012217	±2.5	PASS
Band II	16QAM	9538	VN	-20	-10.81	-0.012774	±2.5	PASS
Band II	16QAM	9538	VN	-10	-2.46	-0.002906	±2.5	PASS
Band II	16QAM	9538	VN	0	-8.20	-0.009682	±2.5	PASS
Band II	16QAM	9538	VN	10	-11.01	-0.013002	±2.5	PASS
Band II	16QAM	9538	VN	20	-12.44	-0.014692	±2.5	PASS
Band II	16QAM	9538	VN	30	-3.33	-0.003937	±2.5	PASS
Band II	16QAM	9538	VN	40	-6.83	-0.008068	±2.5	PASS
Band II	16QAM	9538	VN	50	-9.06	-0.010704	±2.5	PASS
Band V	QPSK	4132	VN	-30	-5.11	-0.006188	±2.5	PASS
Band V	QPSK	4132	VN	-20	-8.69	-0.010516	±2.5	PASS
Band V	QPSK	4132	VN	-10	-5.94	-0.007184	±2.5	PASS
Band V	QPSK	4132	VN	0	-10.16	-0.012299	±2.5	PASS
Band V	QPSK	4132	VN	10	-7.45	-0.009019	±2.5	PASS
Band V	QPSK	4132	VN	20	-4.13	-0.004994	±2.5	PASS
Band V	QPSK	4132	VN	30	-10.99	-0.013303	±2.5	PASS
Band V	QPSK	4132	VN	40	-8.48	-0.010256	±2.5	PASS
Band V	QPSK	4132	VN	50	-8.53	-0.010317	±2.5	PASS
Band V	QPSK	4182	VN	-30	-10.40	-0.012434	±2.5	PASS
Band V	QPSK	4182	VN	-20	-7.90	-0.009450	±2.5	PASS
Band V	QPSK	4182	VN	-10	-11.62	-0.013888	±2.5	PASS
Band V	QPSK	4182	VN	0	-7.72	-0.009227	±2.5	PASS
Band V	QPSK	4182	VN	10	-8.75	-0.010459	±2.5	PASS
Band V	QPSK	4182	VN	20	-9.61	-0.011493	±2.5	PASS
Band V	QPSK	4182	VN	30	-11.52	-0.013768	±2.5	PASS
Band V	QPSK	4182	VN	40	-9.46	-0.011305	±2.5	PASS
Band V	QPSK	4182	VN	50	-8.75	-0.010467	±2.5	PASS
Band V	QPSK	4233	VN	-30	-3.88	-0.004588	±2.5	PASS
Band V	QPSK	4233	VN	-20	-8.34	-0.009851	±2.5	PASS
Band V	QPSK	4233	VN	-10	-9.93	-0.011735	±2.5	PASS
Band V	QPSK	4233	VN	0	-7.25	-0.008558	±2.5	PASS
Band V	QPSK	4233	VN	10	-5.64	-0.006657	±2.5	PASS
Band V	QPSK	4233	VN	20	-11.05	-0.013053	±2.5	PASS
Band V	QPSK	4233	VN	30	-6.01	-0.007097	±2.5	PASS
Band V	QPSK	4233	VN	40	-11.70	-0.013822	±2.5	PASS
Band V	QPSK	4233	VN	50	-8.81	-0.010409	±2.5	PASS
Band V	16QAM	4132	VN	-30	0.57	0.000685	±2.5	PASS
Band V	16QAM	4132	VN	-20	5.29	0.006397	±2.5	PASS
Band V	16QAM	4132	VN	-10	3.73	0.004516	±2.5	PASS
Band V	16QAM	4132	VN	0	13.80	0.016694	±2.5	PASS
Band V	16QAM	4132	VN	10	-11.05	-0.013369	±2.5	PASS
Band V	16QAM	4132	VN	20	-7.23	-0.008752	±2.5	PASS
Band V	16QAM	4132	VN	30	-0.75	-0.000910	±2.5	PASS
Band V	16QAM	4132	VN	40	-8.29	-0.010030	±2.5	PASS



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Band V	16QAM	4132	VN	50	-4.35	-0.005263	±2.5	PASS
Band V	16QAM	4182	VN	-30	-14.91	-0.017825	±2.5	PASS
Band V	16QAM	4182	VN	-20	13.90	0.016620	±2.5	PASS
Band V	16QAM	4182	VN	-10	-13.00	-0.015548	±2.5	PASS
Band V	16QAM	4182	VN	0	3.91	0.004674	±2.5	PASS
Band V	16QAM	4182	VN	10	9.41	0.011255	±2.5	PASS
Band V	16QAM	4182	VN	20	-0.60	-0.000721	±2.5	PASS
Band V	16QAM	4182	VN	30	-14.68	-0.017553	±2.5	PASS
Band V	16QAM	4182	VN	40	-2.85	-0.003403	±2.5	PASS
Band V	16QAM	4182	VN	50	-12.86	-0.015377	±2.5	PASS
Band V	16QAM	4233	VN	-30	4.29	0.005066	±2.5	PASS
Band V	16QAM	4233	VN	-20	-2.75	-0.003254	±2.5	PASS
Band V	16QAM	4233	VN	-10	5.01	0.005915	±2.5	PASS
Band V	16QAM	4233	VN	0	-0.76	-0.000898	±2.5	PASS
Band V	16QAM	4233	VN	10	-8.91	-0.010521	±2.5	PASS
Band V	16QAM	4233	VN	20	12.22	0.014433	±2.5	PASS
Band V	16QAM	4233	VN	30	3.21	0.003793	±2.5	PASS
Band V	16QAM	4233	VN	40	2.13	0.002515	±2.5	PASS
Band V	16QAM	4233	VN	50	-3.30	-0.003897	±2.5	PASS

The End

