



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	23.08	20.88	33.00	PASS
Band II	9400	23.14	20.94	33.00	PASS
Band II	9538	23.06	20.86	33.00	PASS
Band IV	1312	23.11	20.81	30.00	PASS
Band IV	1413	23.18	20.88	30.00	PASS
Band IV	1513	23.09	20.79	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	22.97	15.92	38.45	PASS
Band V	4182	23.05	16.00	38.45	PASS
Band V	4233	22.91	15.86	38.45	PASS

Remark:

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

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

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



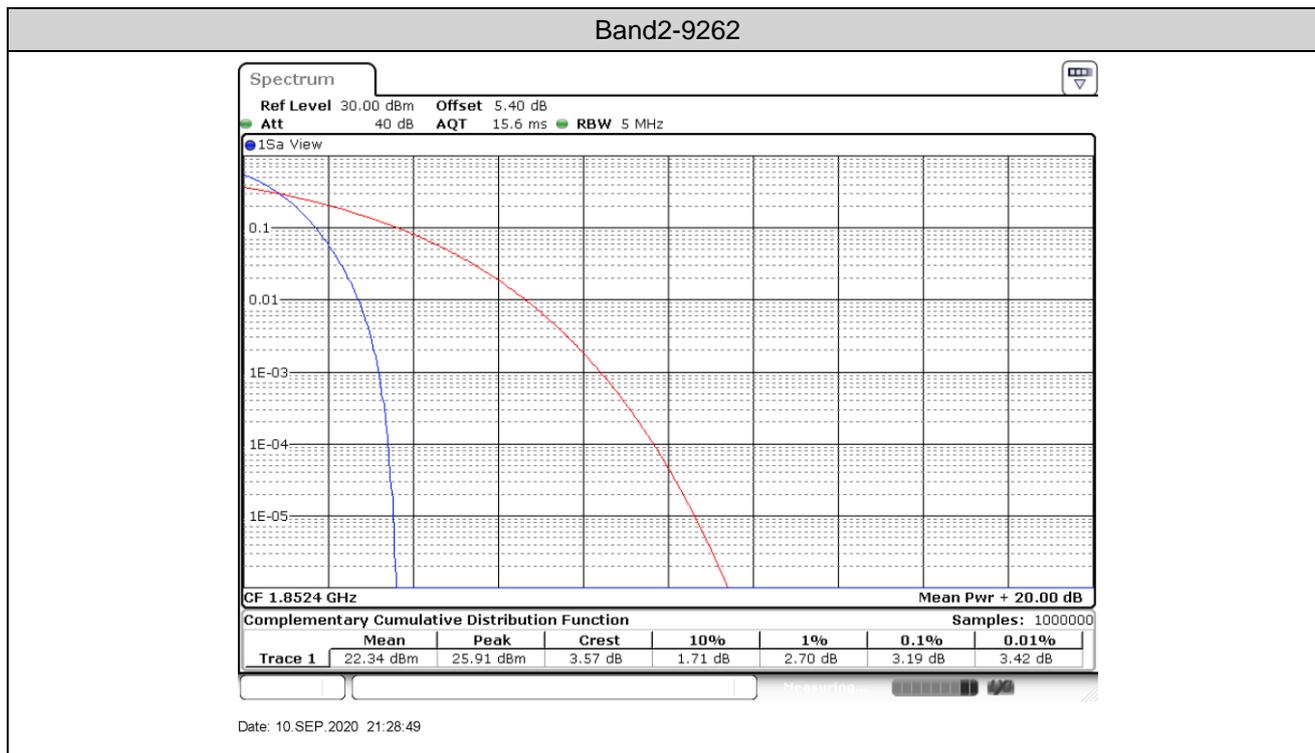
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.19	13	PASS
Band2	9400	3.13	13	PASS
Band2	9538	3.22	13	PASS
Band4	1312	3.16	13	PASS
Band4	1413	3.16	13	PASS
Band4	1513	3.22	13	PASS
Band5	4132	3.1	13	PASS
Band5	4182	3.04	13	PASS
Band5	4233	3.01	13	PASS

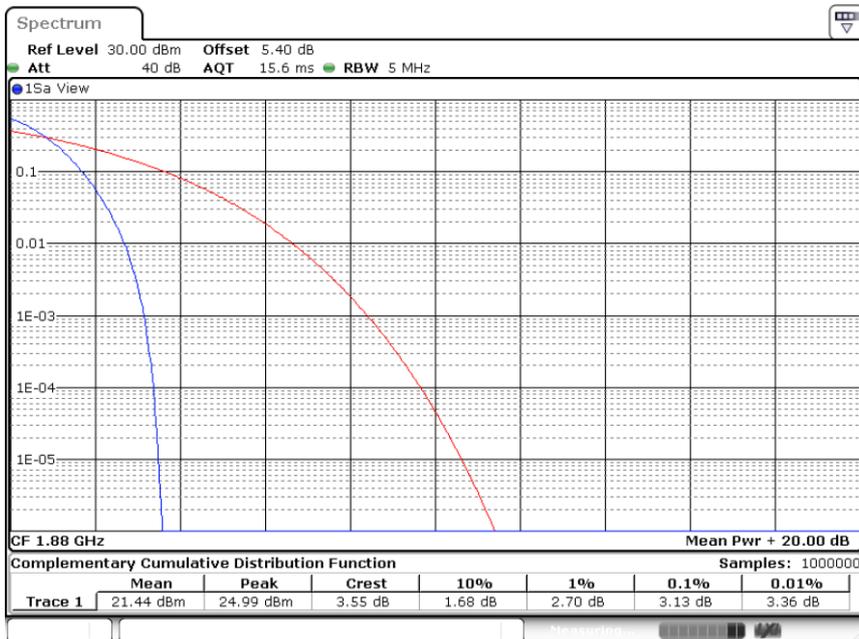
2.2. Test Plots



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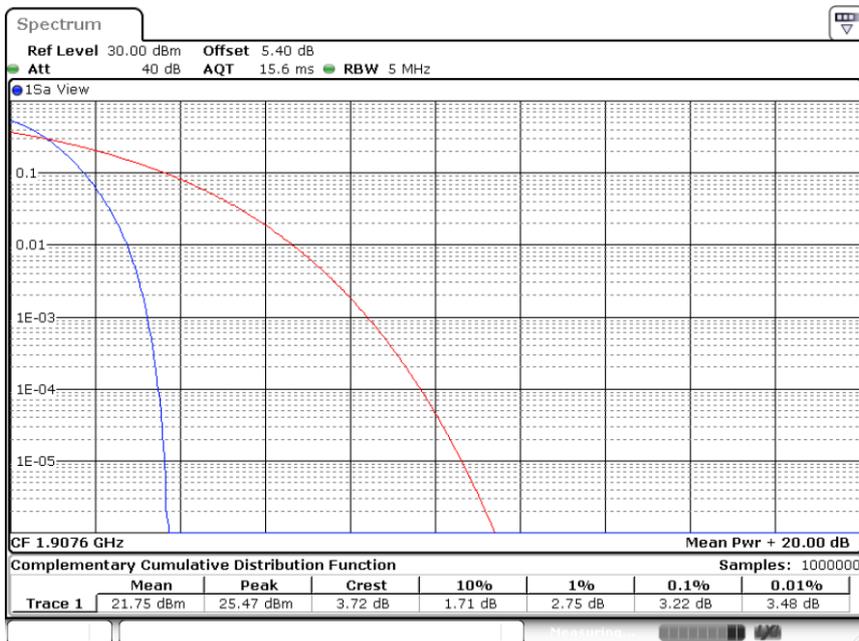
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Band2-9400



Date: 10.SEP.2020 21:29:02

Band2-9538



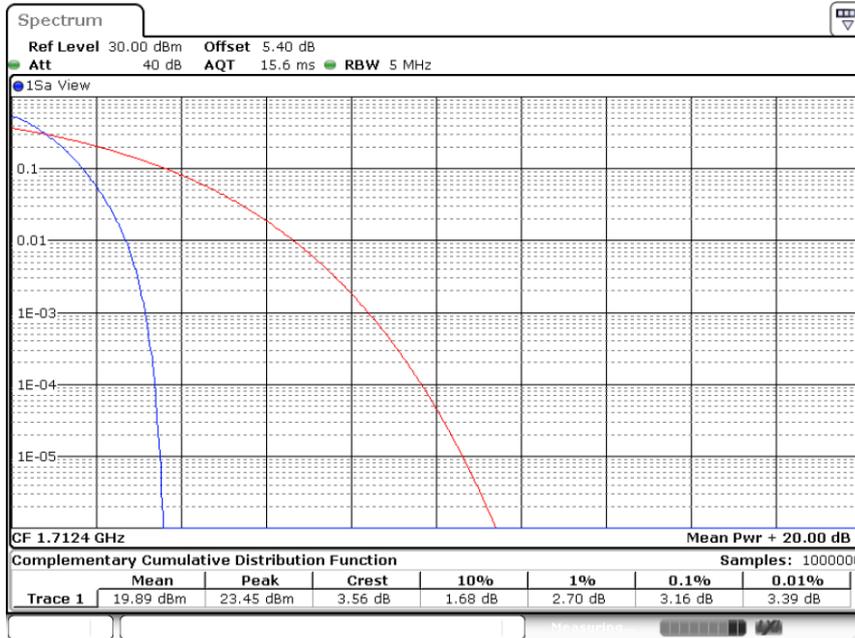
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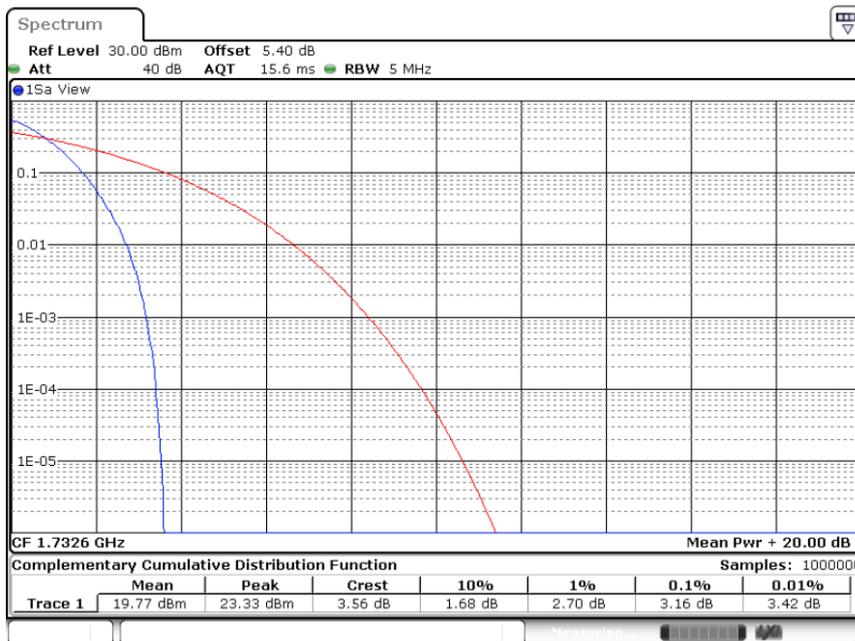
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Band4-1312



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Band4-1413



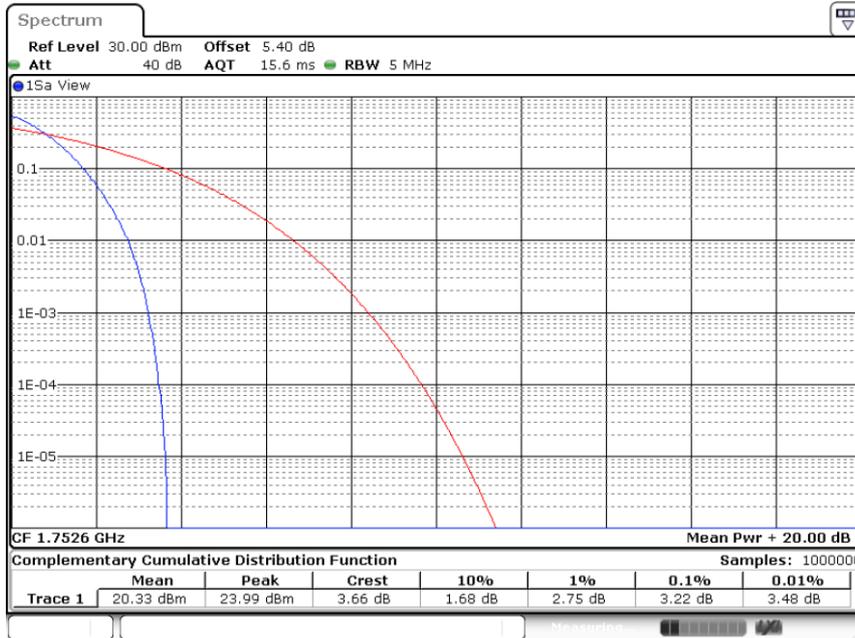
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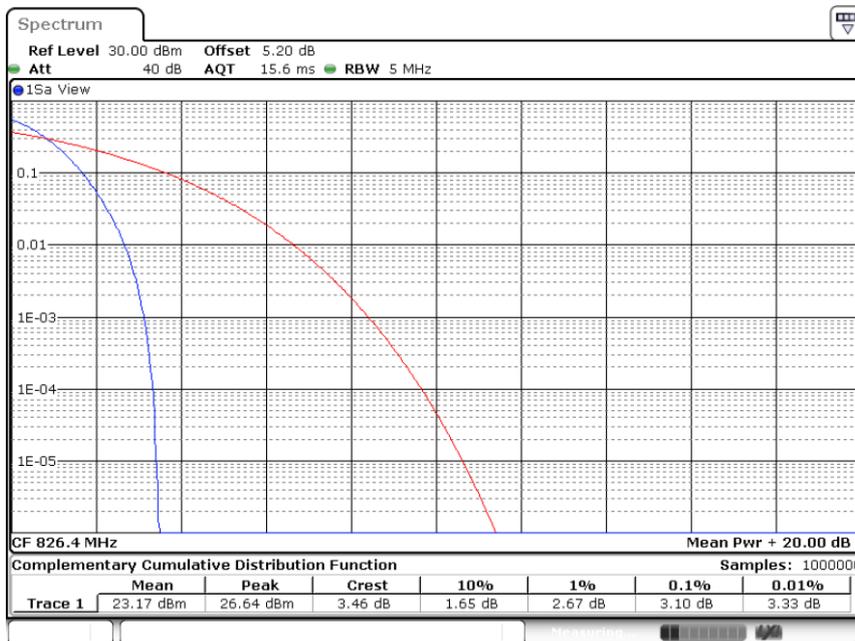
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Band4-1513



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Band5-4132



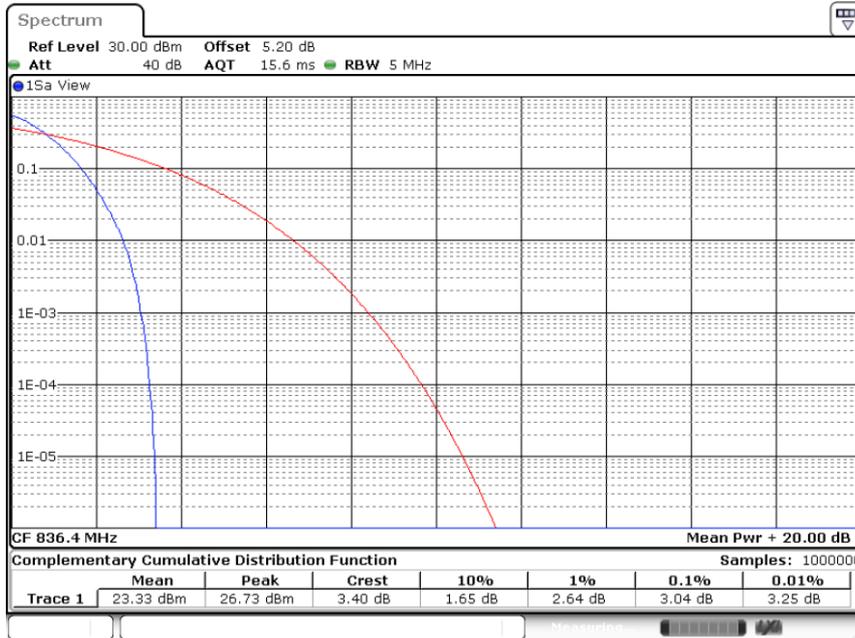
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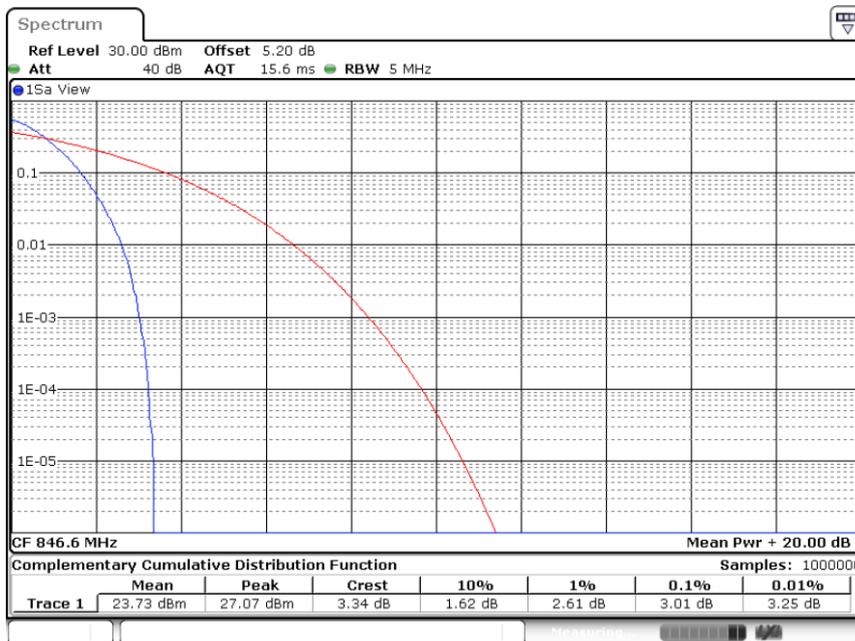
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Band5-4182



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Band5-4233



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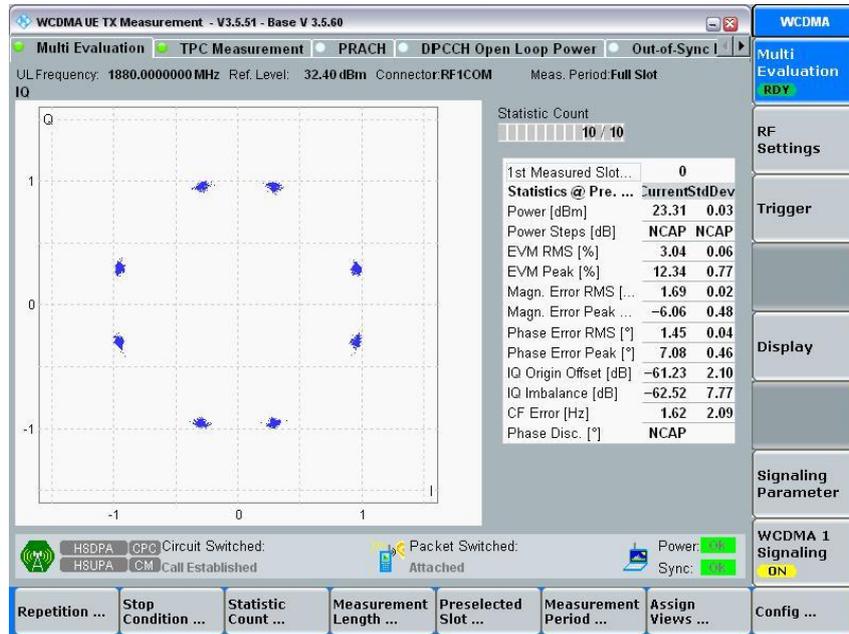
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



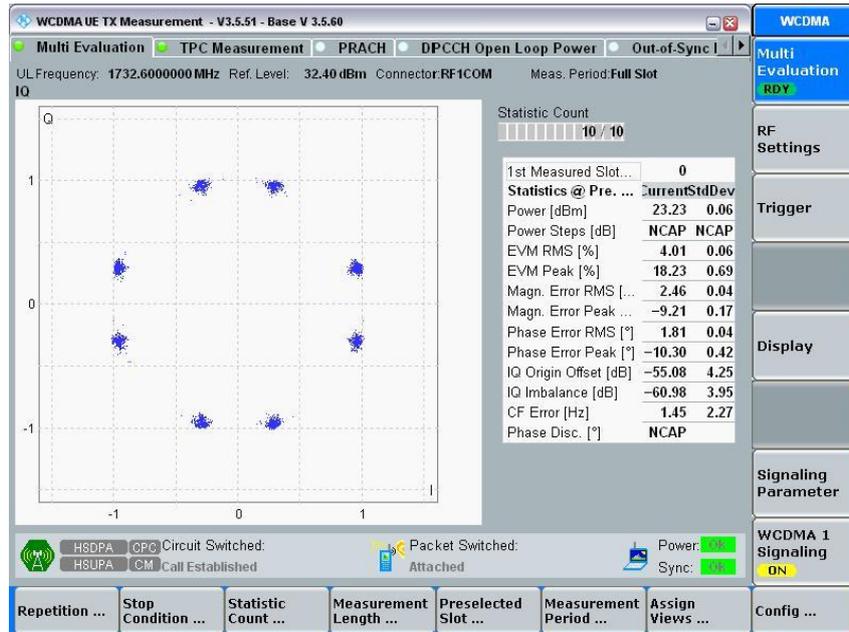
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



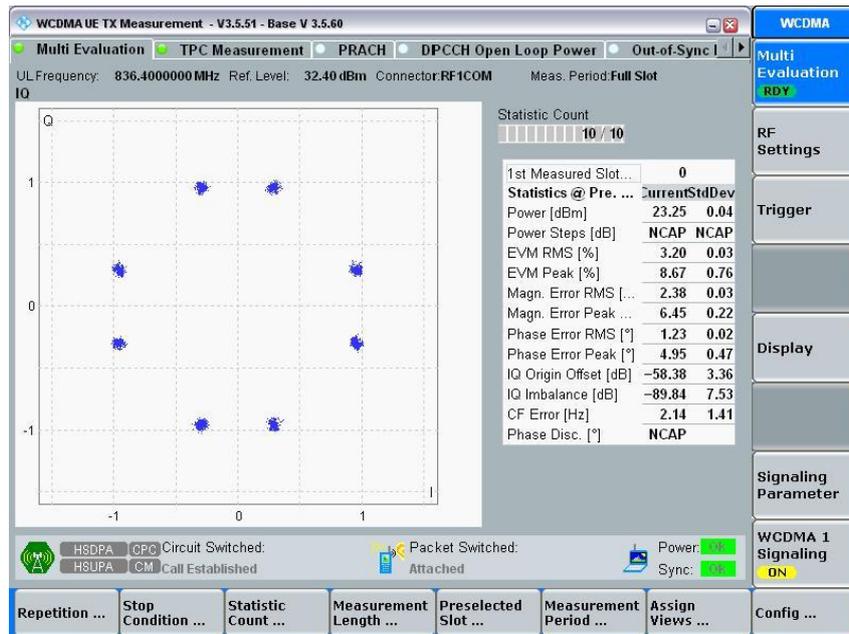
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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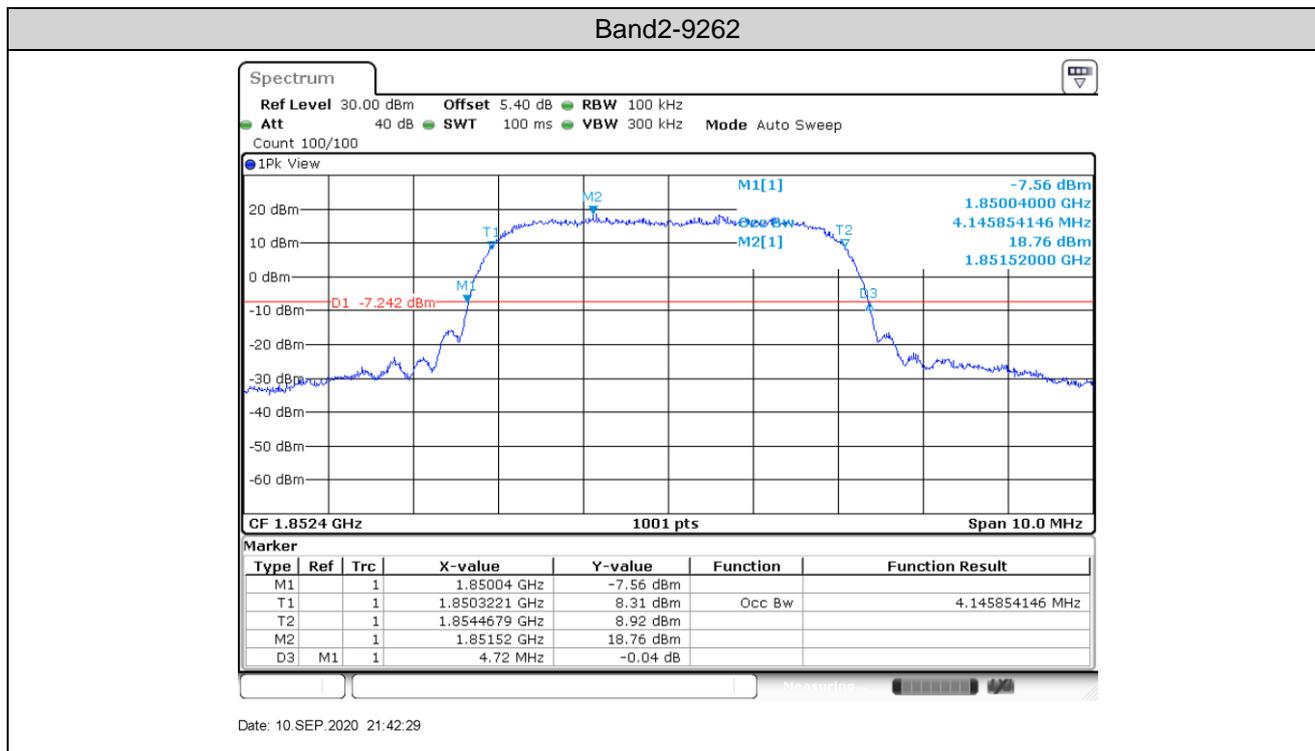
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

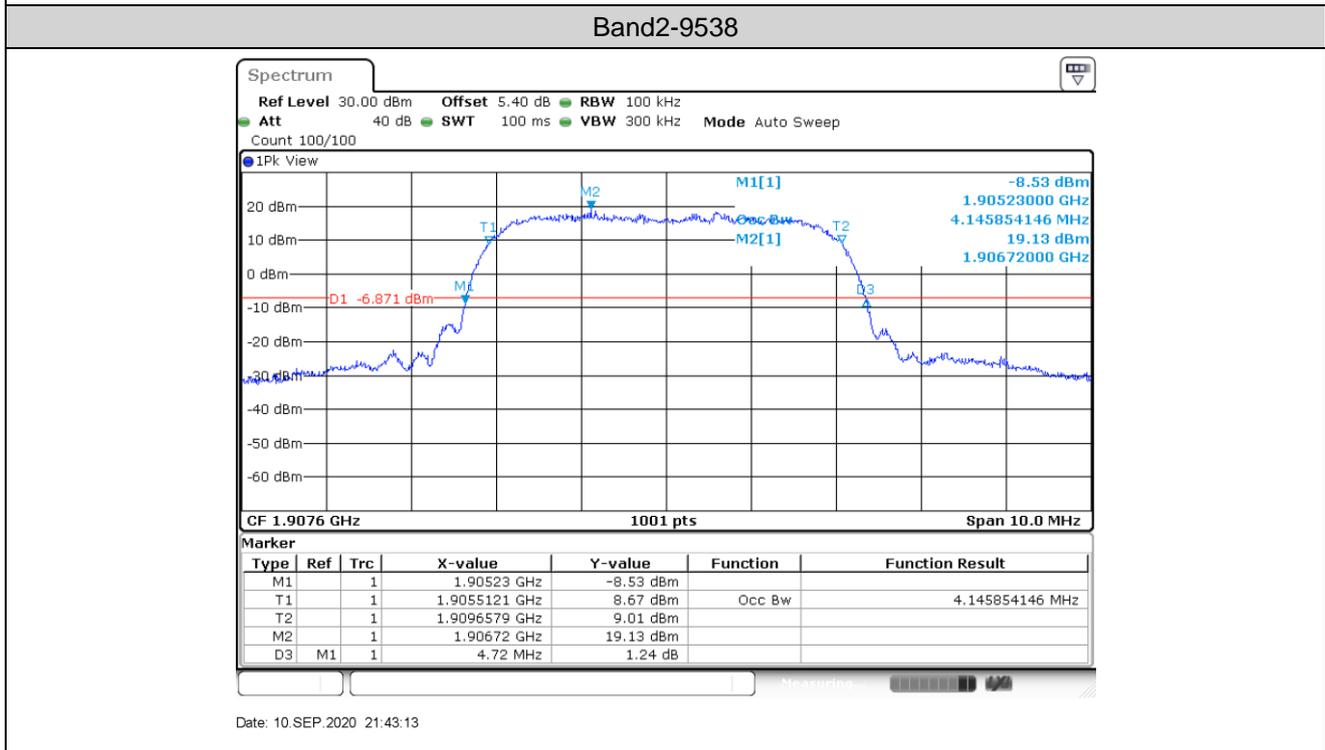
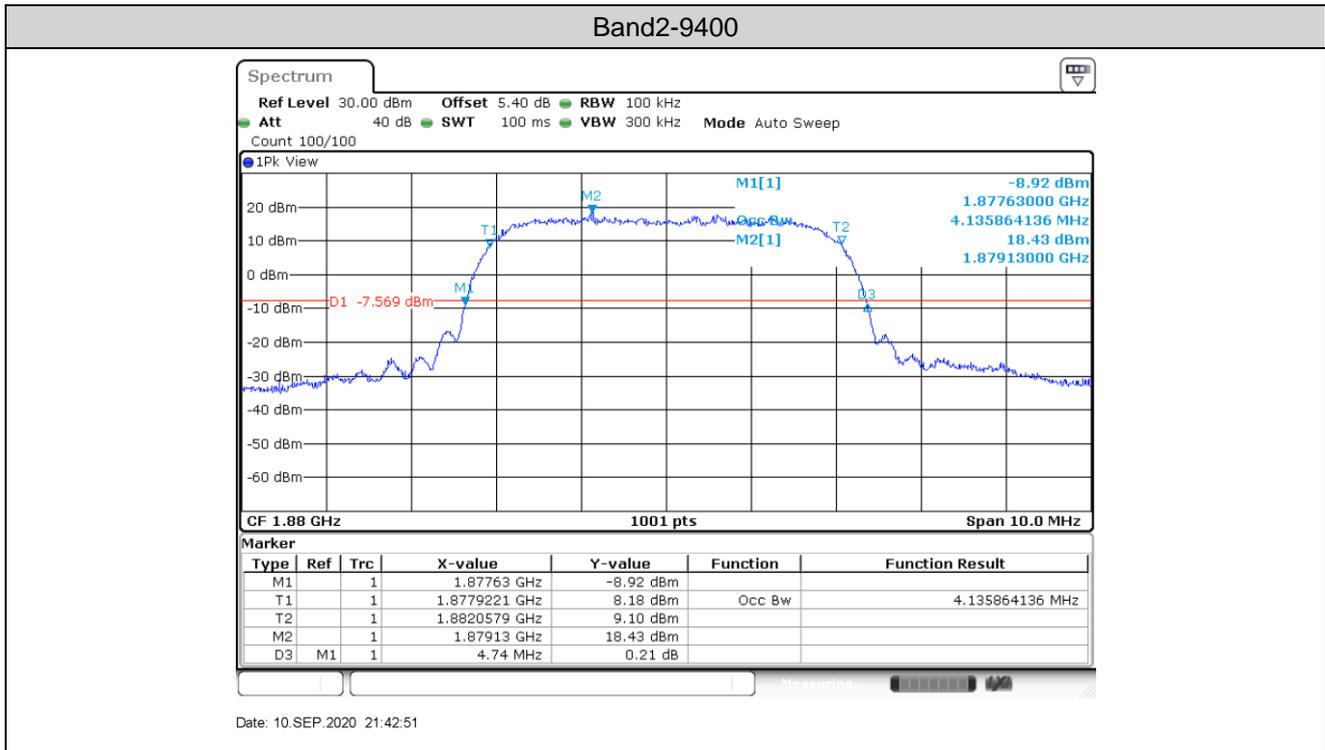
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.146	4.720	---	PASS
Band2	9400	4.136	4.740	---	PASS
Band2	9538	4.146	4.720	---	PASS
Band4	1312	4.126	4.710	---	PASS
Band4	1413	4.116	4.710	---	PASS
Band4	1513	4.126	4.720	---	PASS
Band5	4132	4.126	4.720	---	PASS
Band5	4182	4.126	4.720	---	PASS
Band5	4233	4.136	4.730	---	PASS

4.2. Test Plots



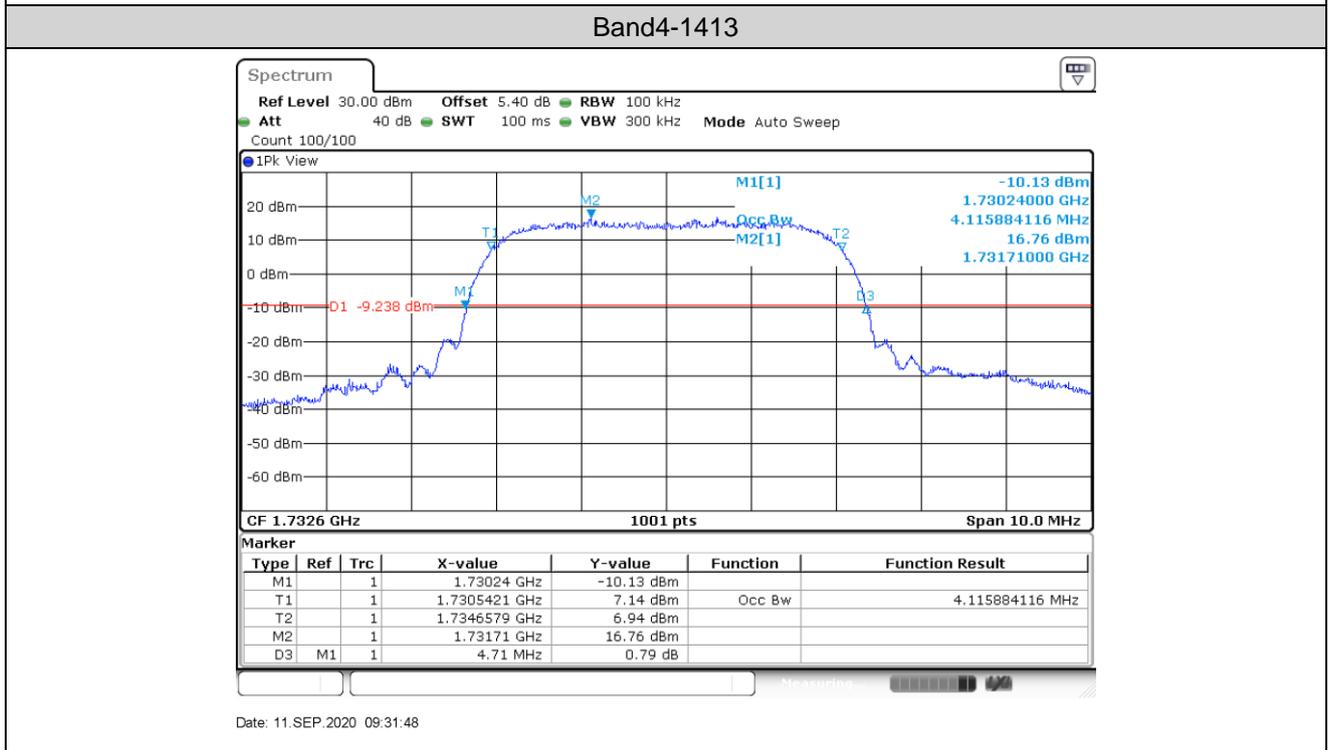
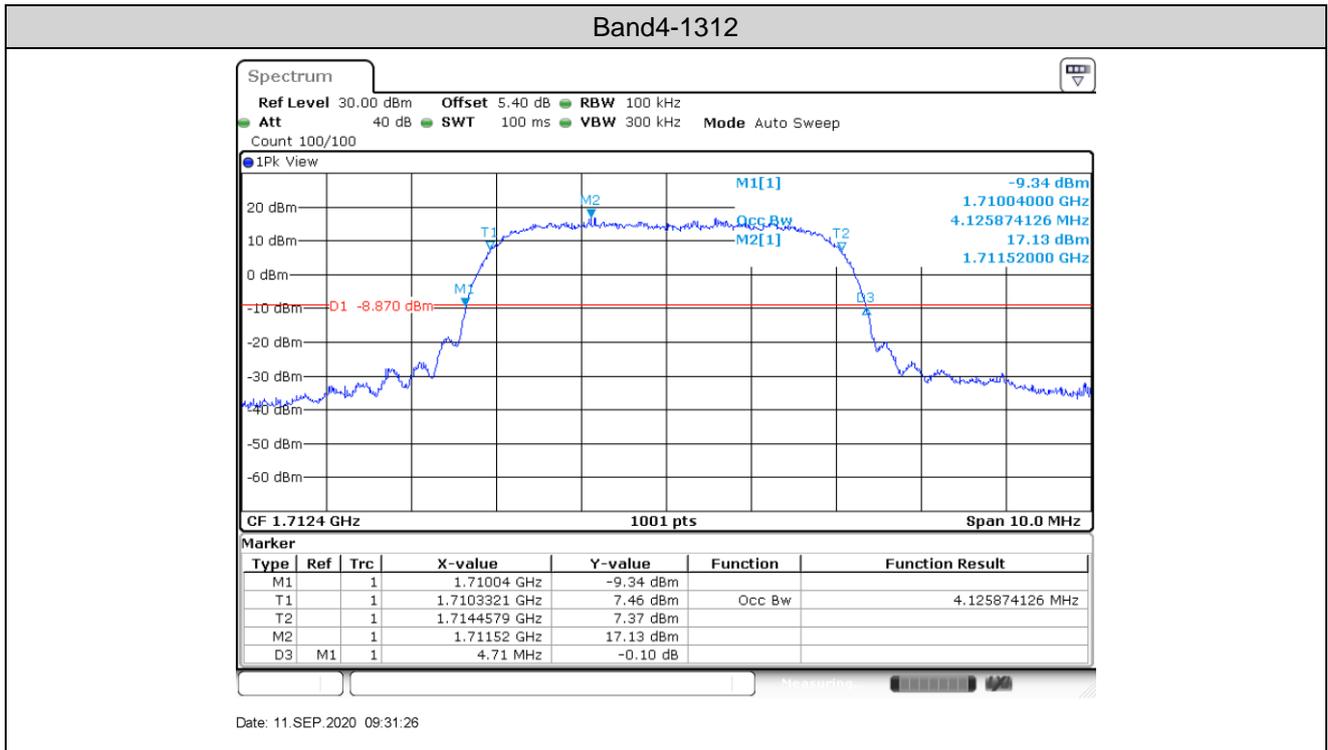
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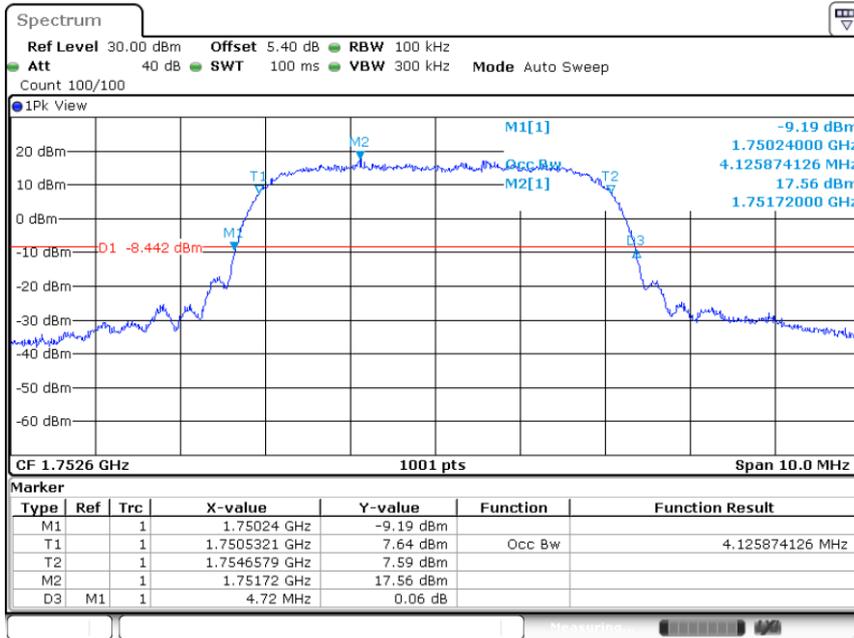
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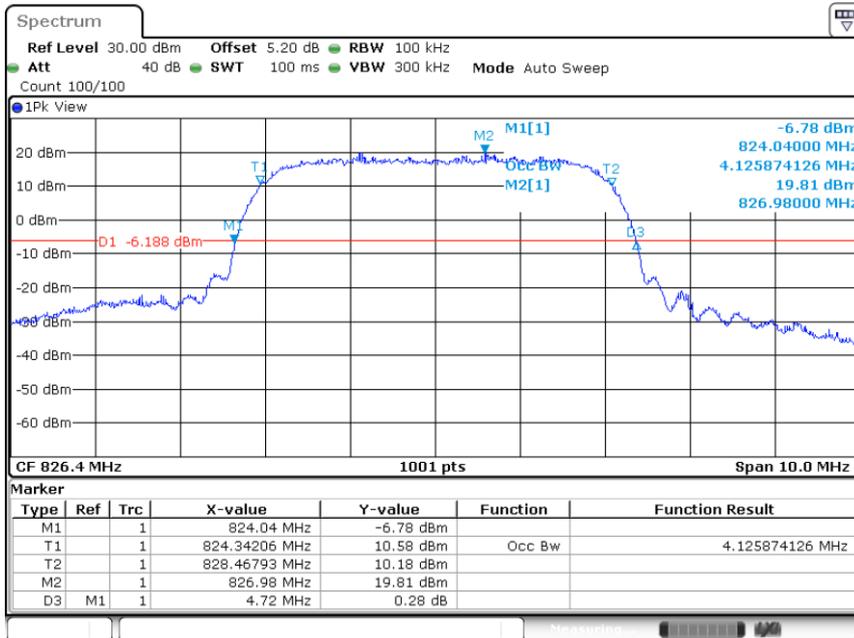
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Band4-1513



Date: 11.SEP.2020 09:32:10

Band5-4132

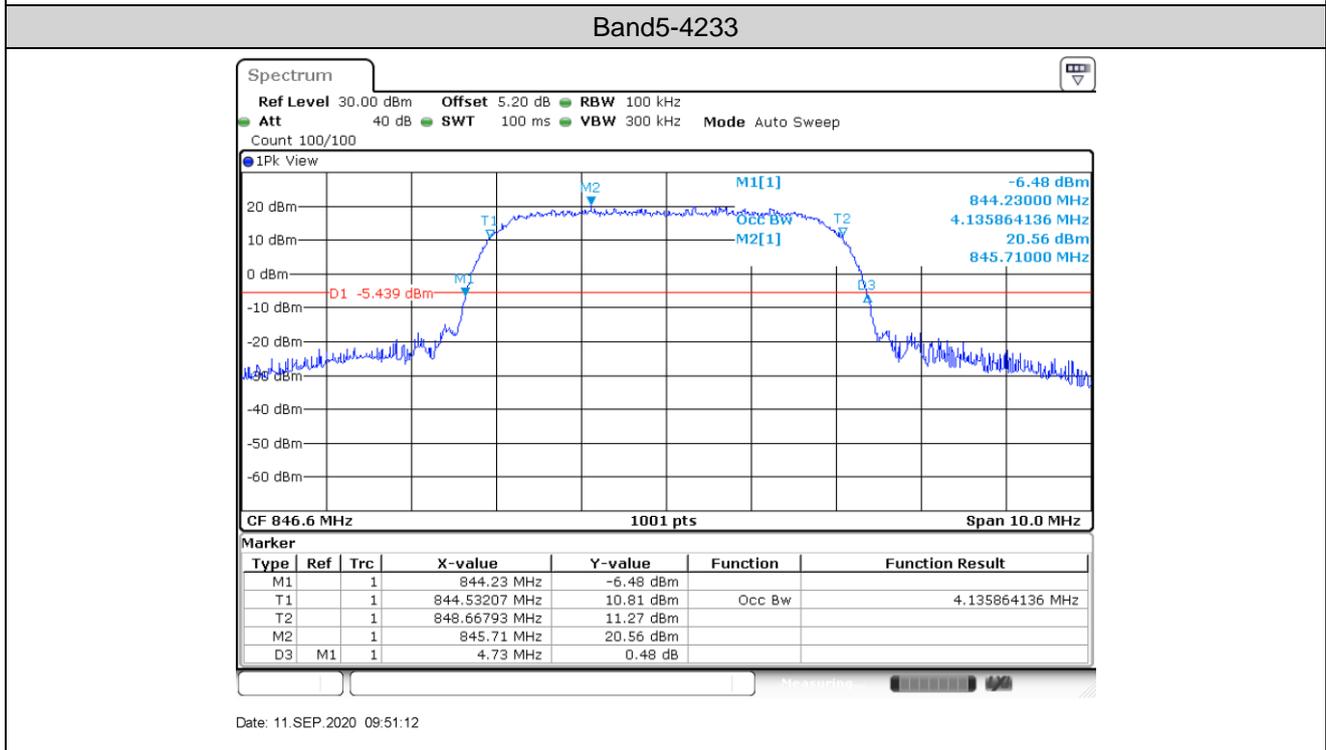
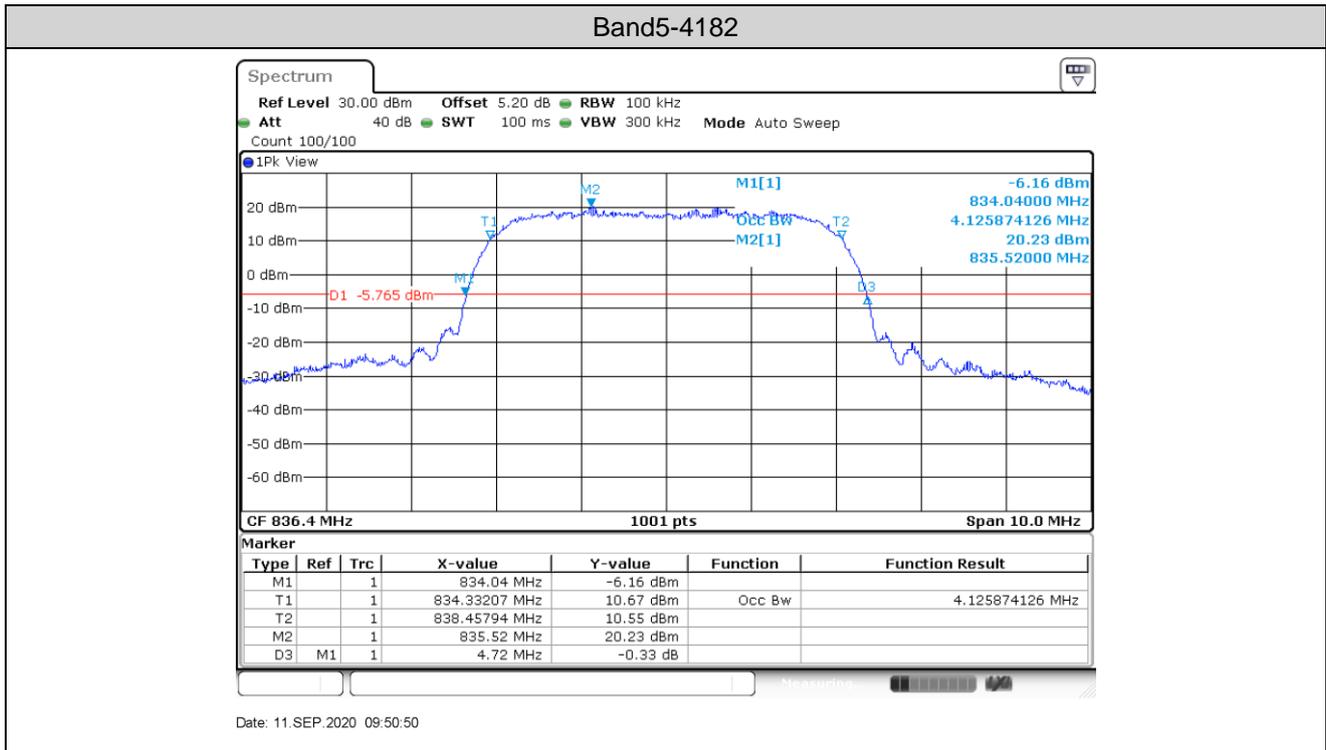


Date: 11.SEP.2020 09:50:28



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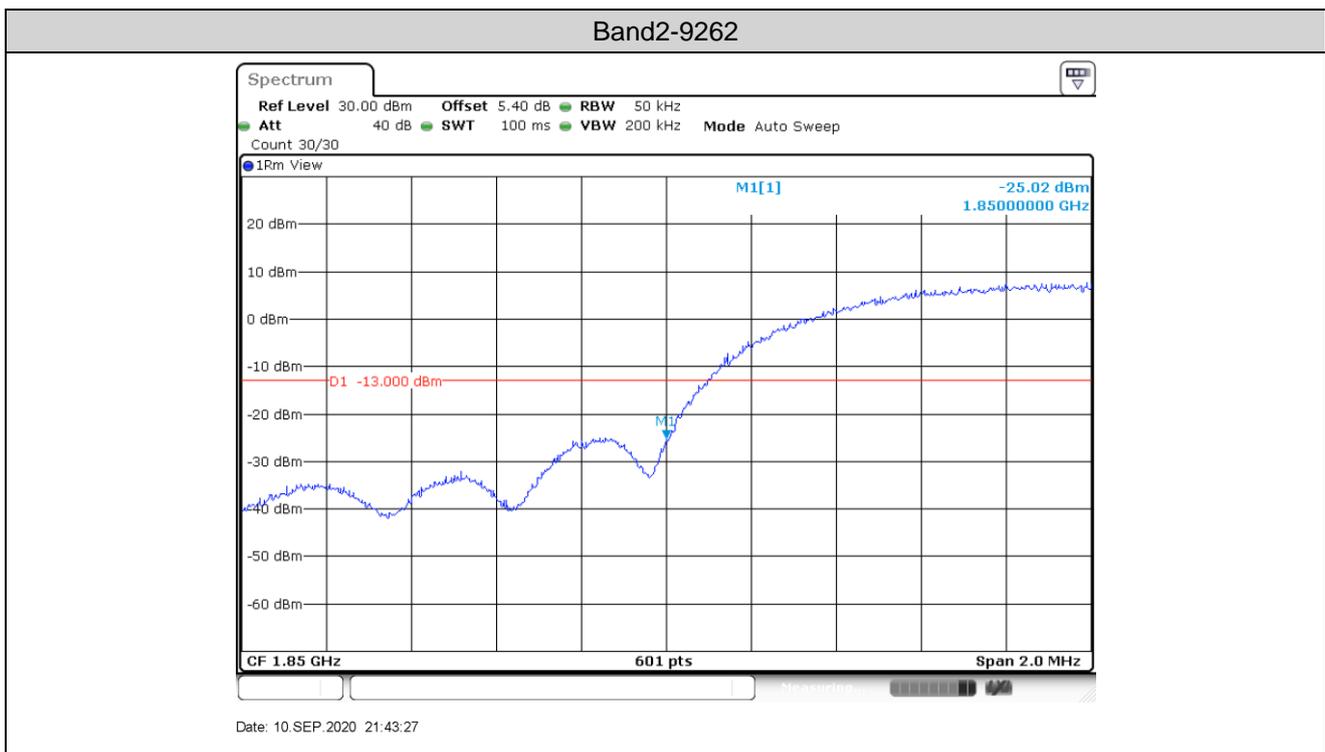
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5. Band Edge Compliance

5.1. Test Result

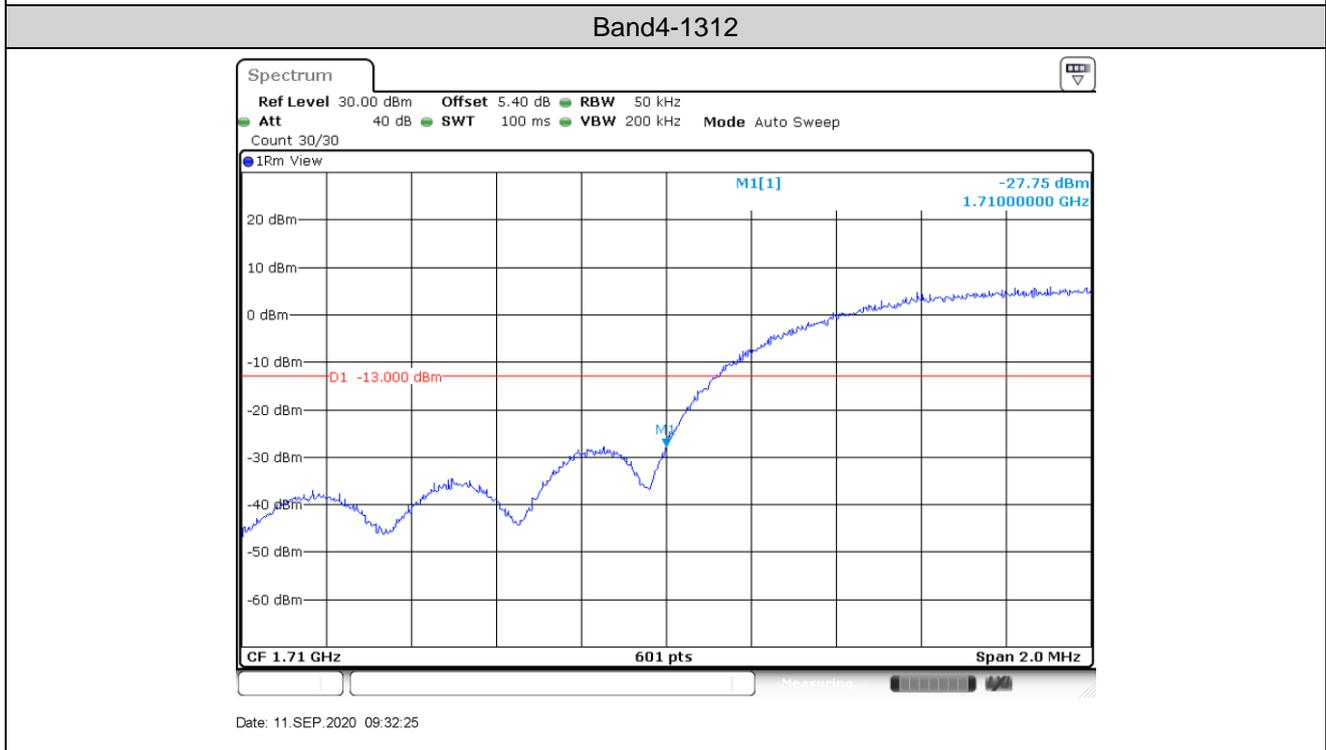
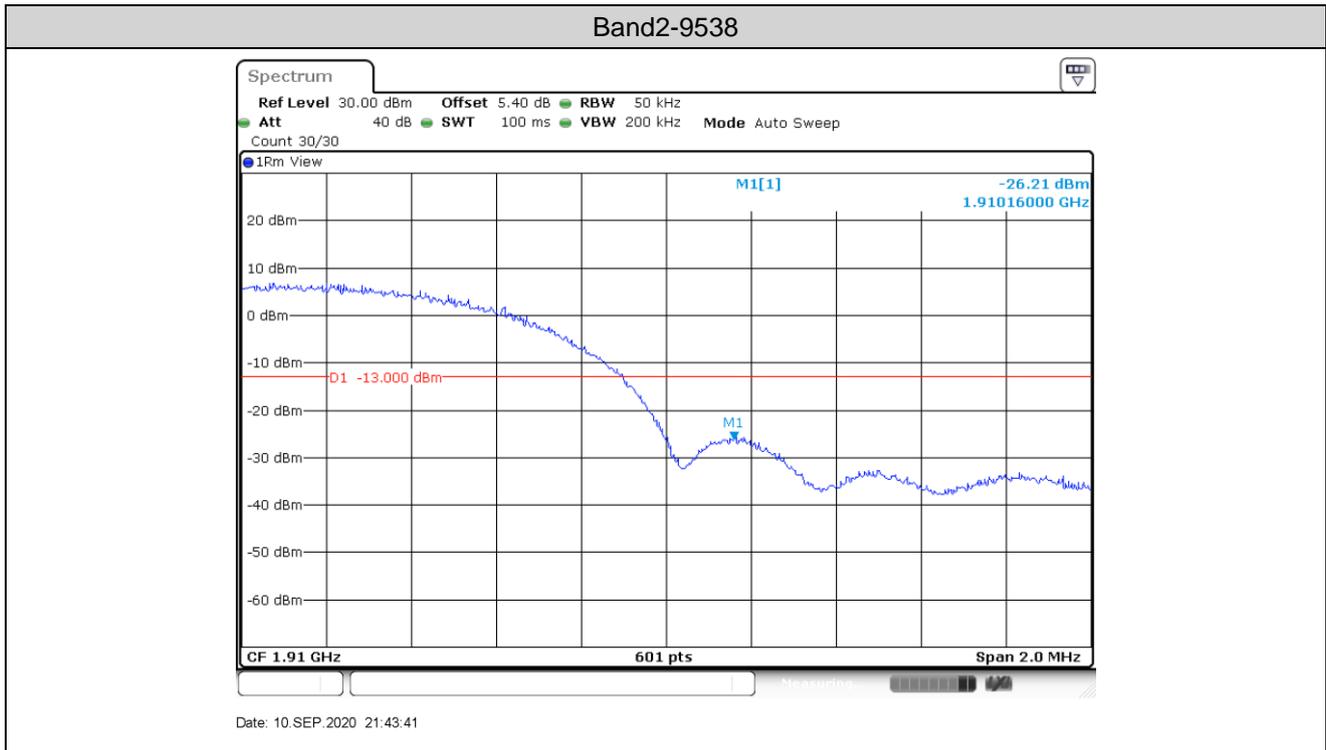
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-25.02	-13	PASS
Band2	9538	1910.16	-25.25	-13	PASS
Band4	1312	1710.00	-27.75	-13	PASS
Band4	1513	1755.18	-26.76	-13	PASS
Band5	4132	823.83	-24.28	-13	PASS
Band5	4233	849.00	-23.10	-13	PASS

5.2. Test Plots



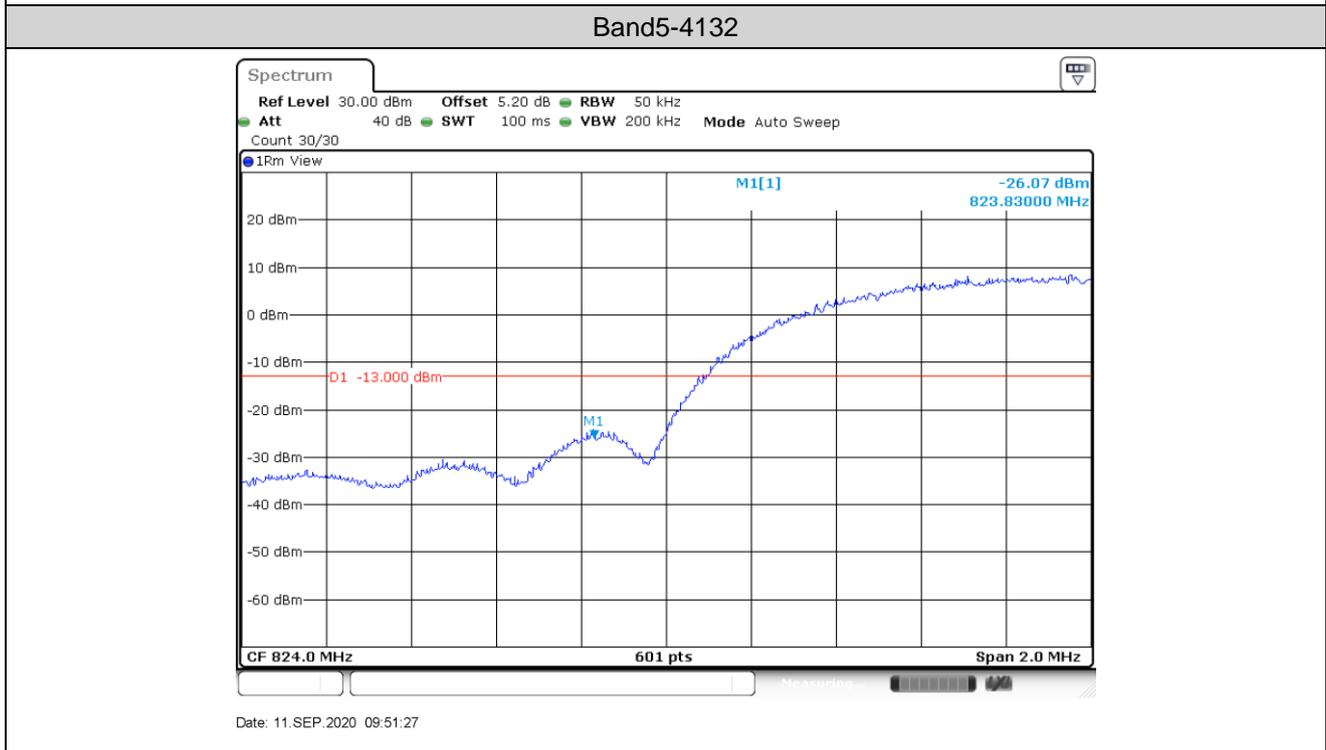
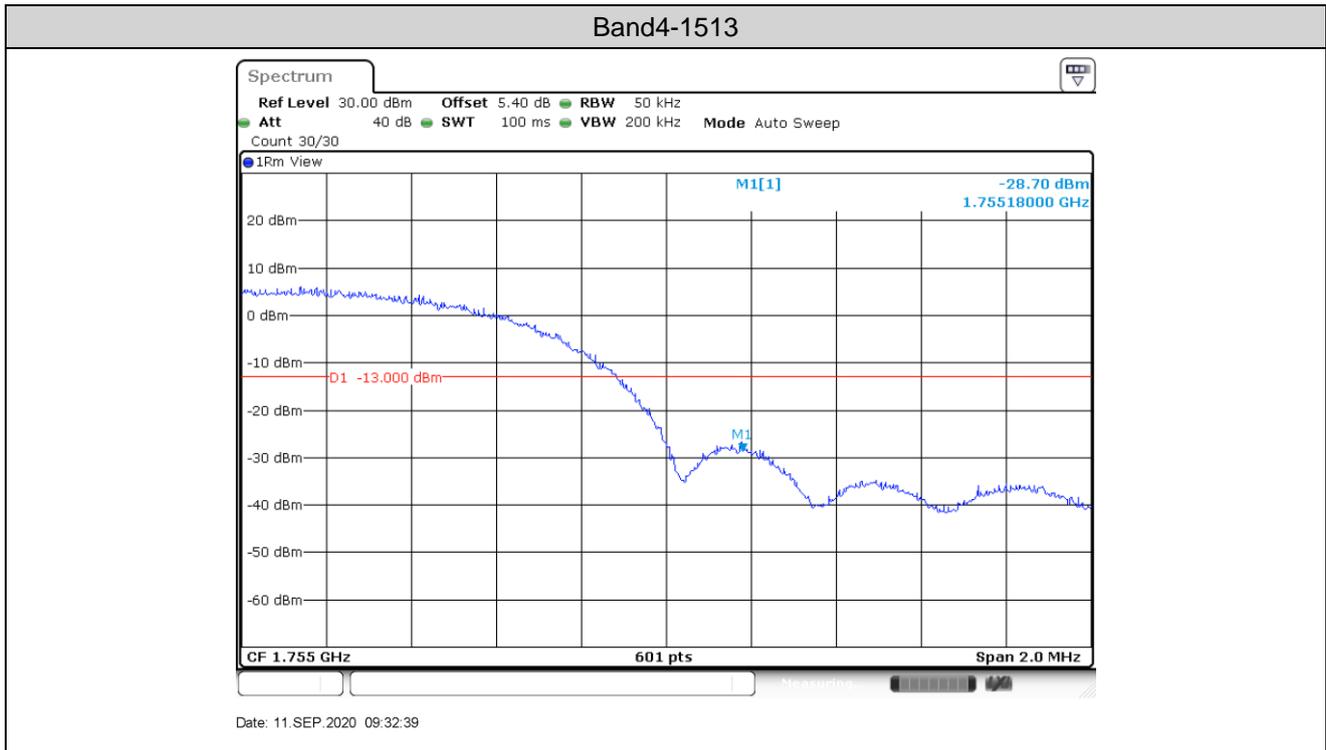
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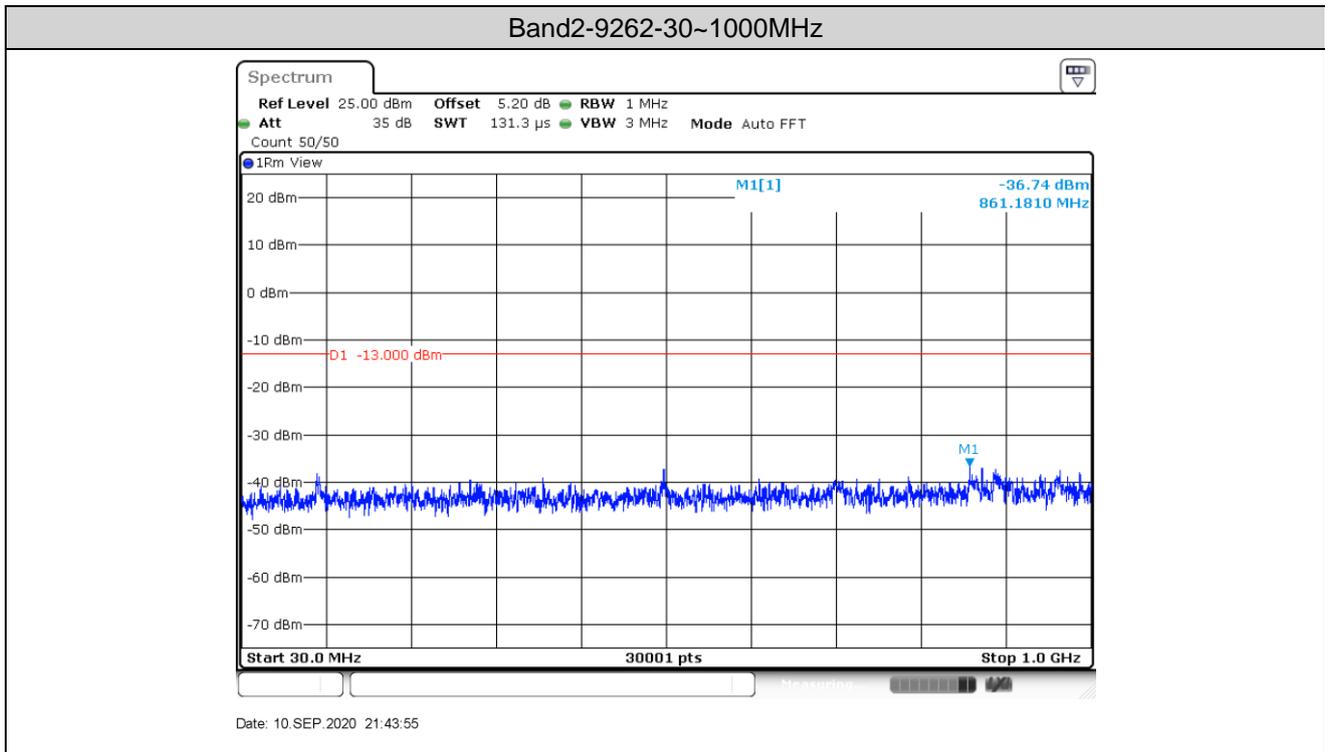
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6. Spurious Emission at Antenna Terminal

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

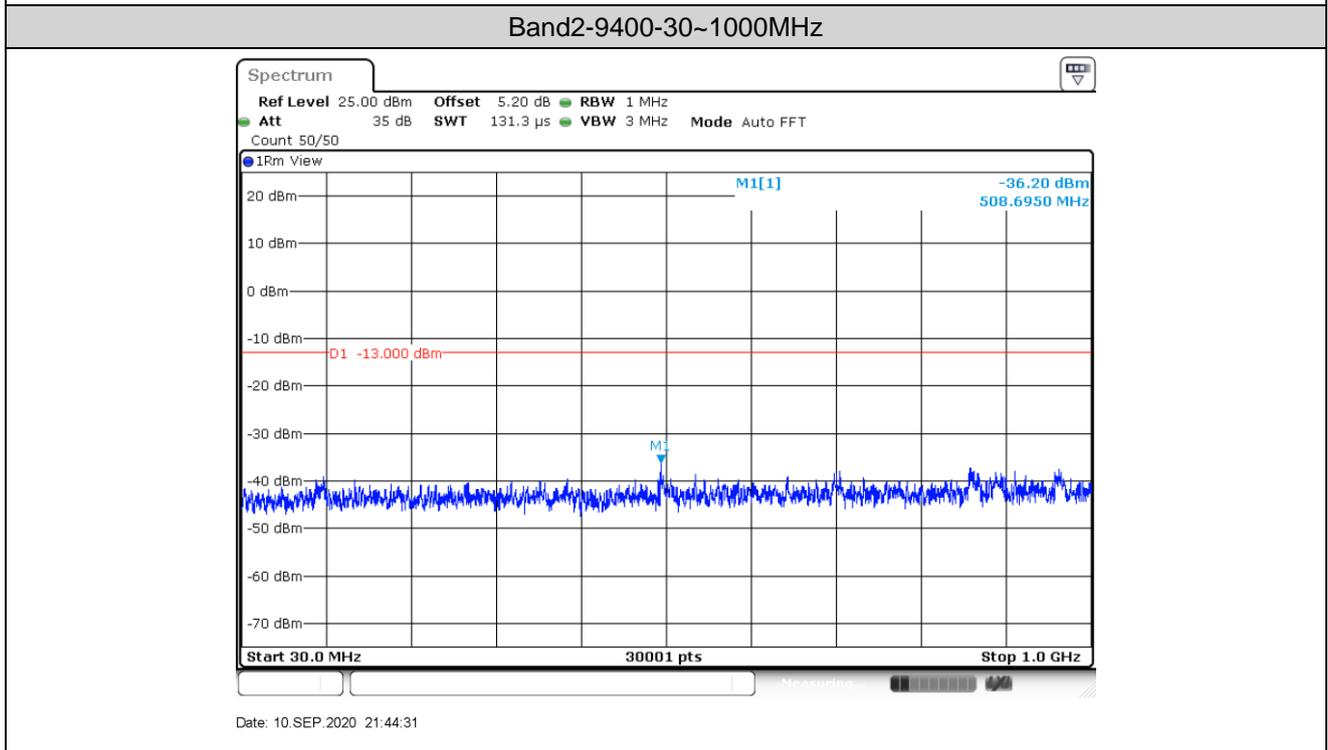
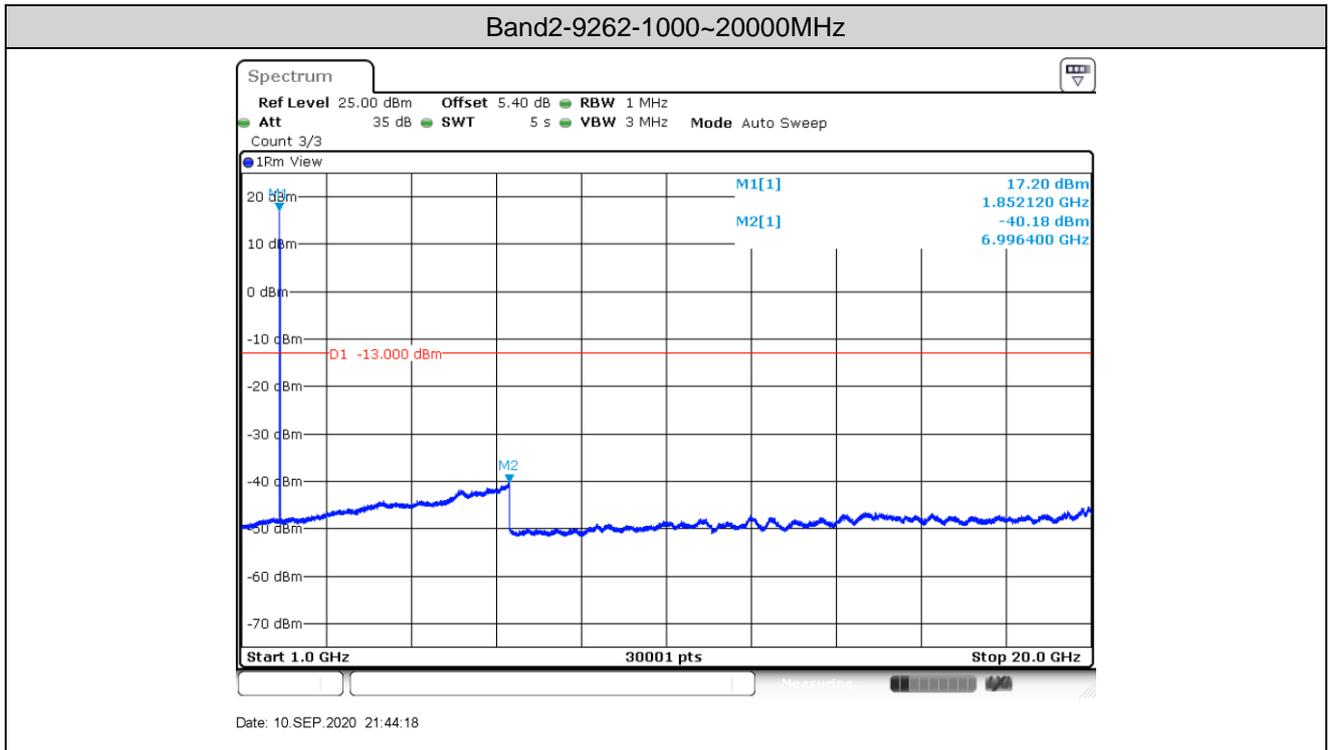
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



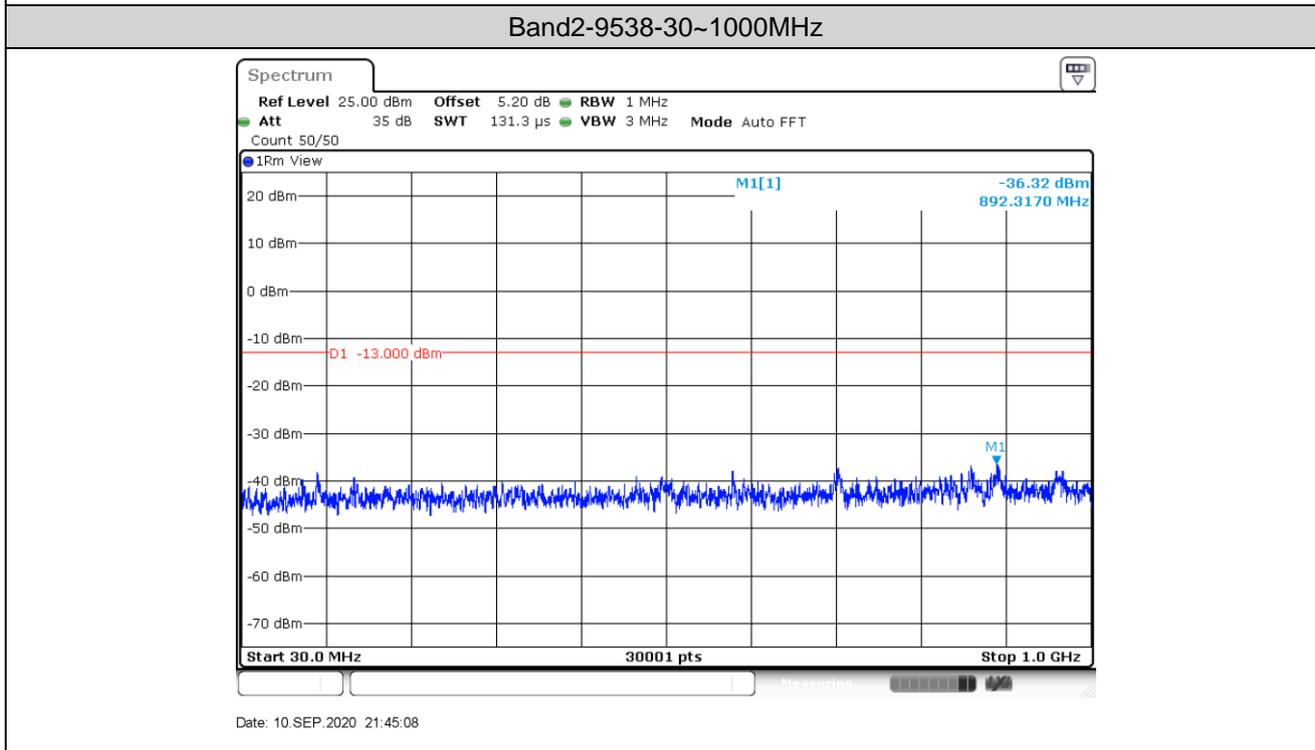
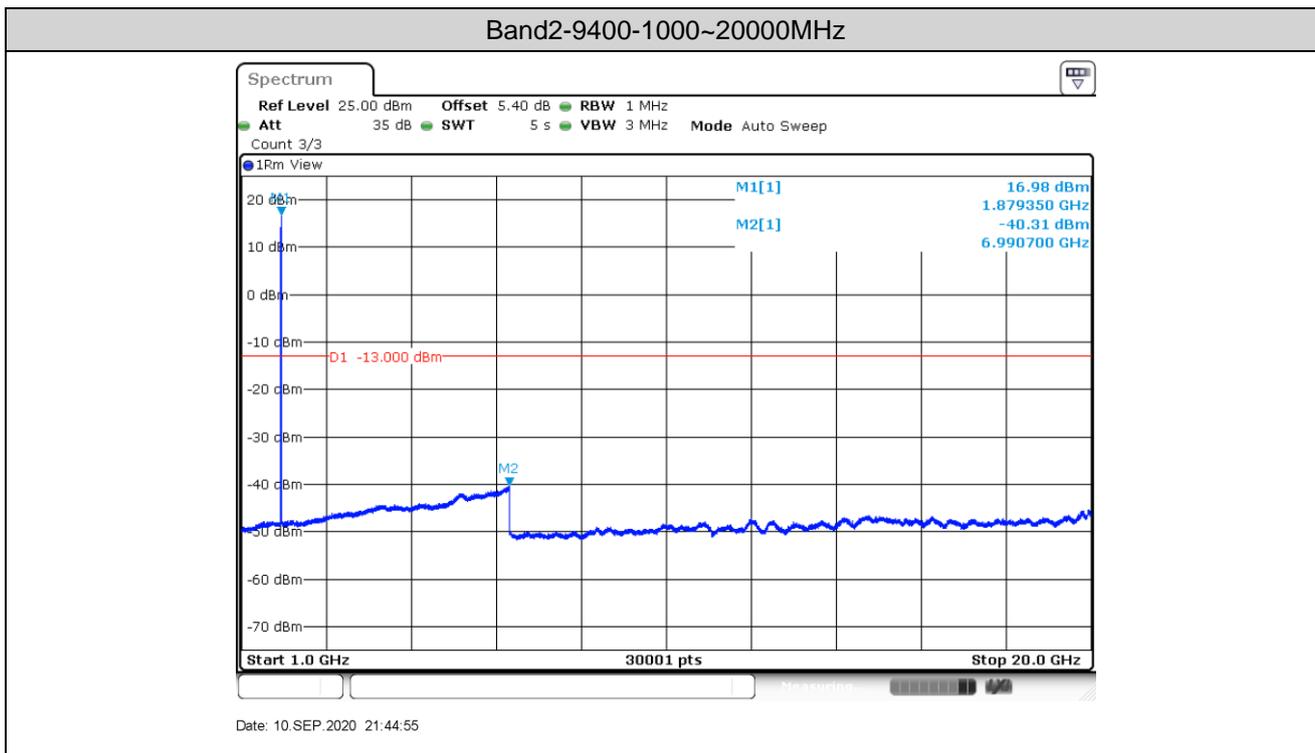
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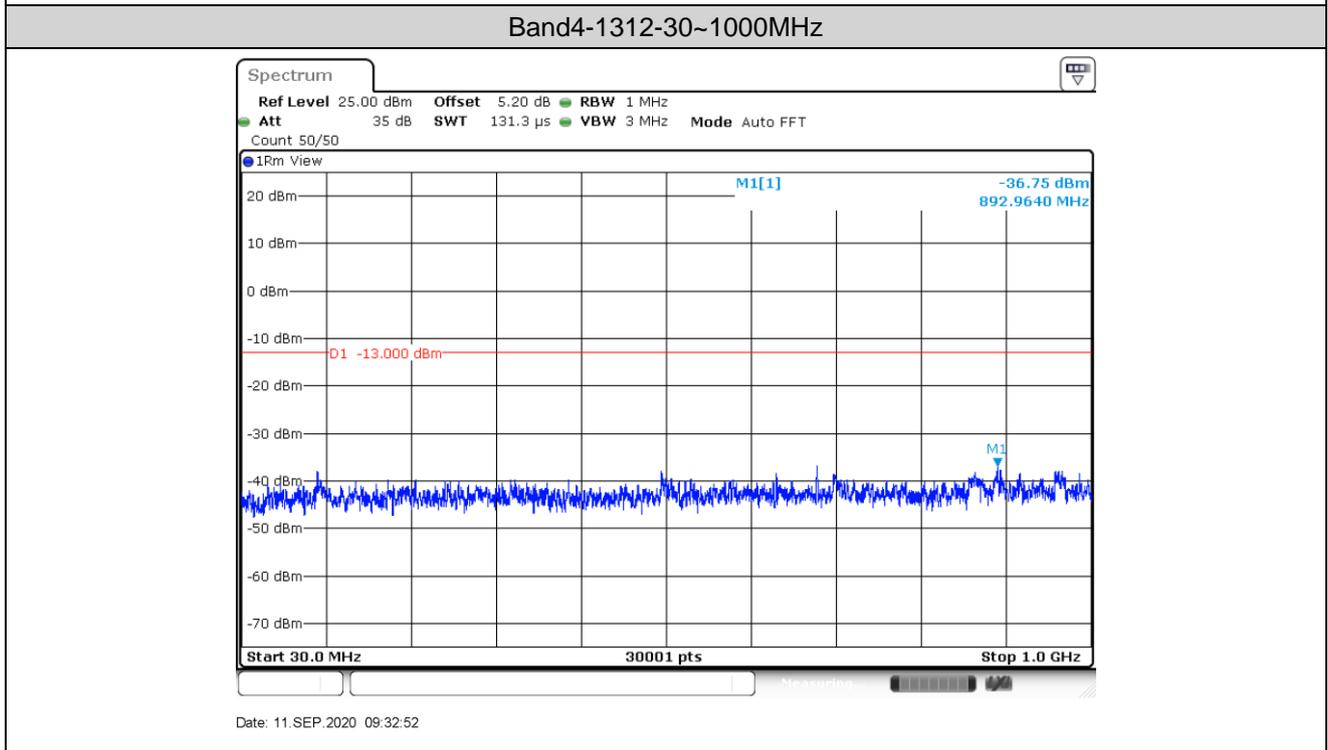
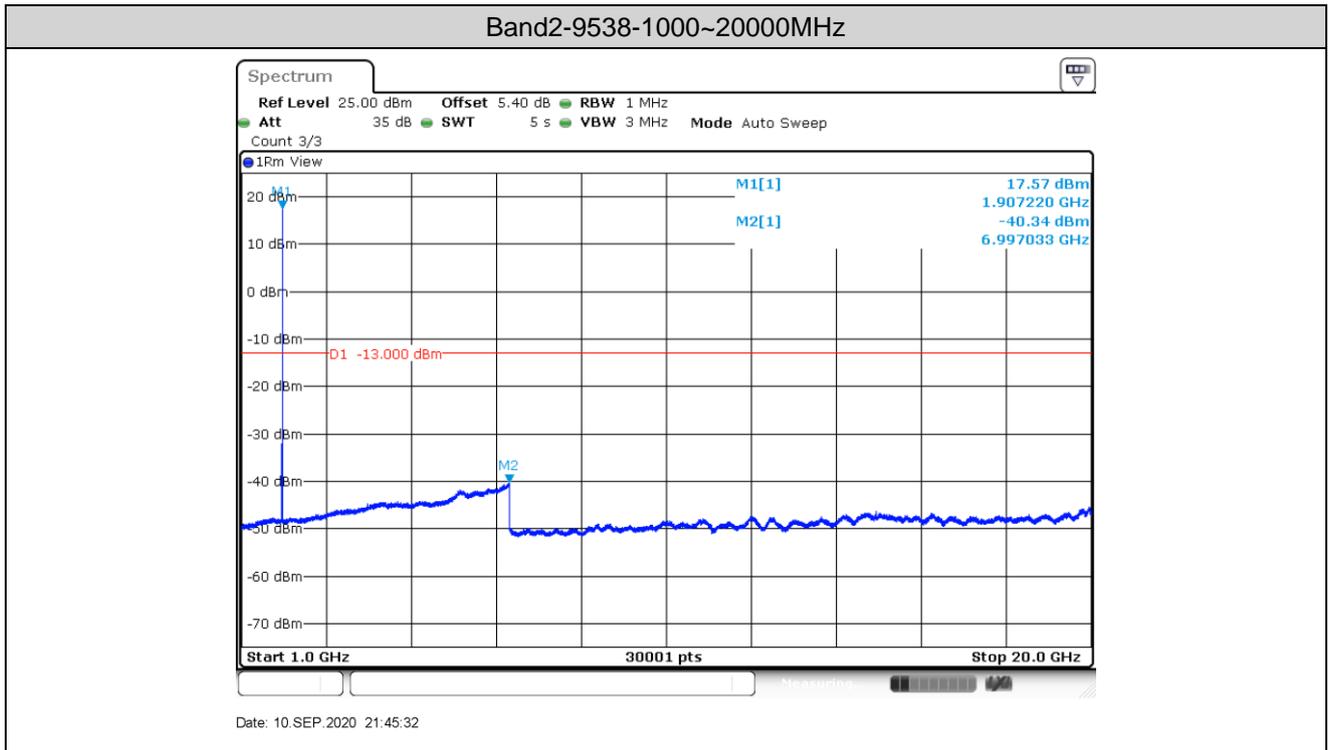
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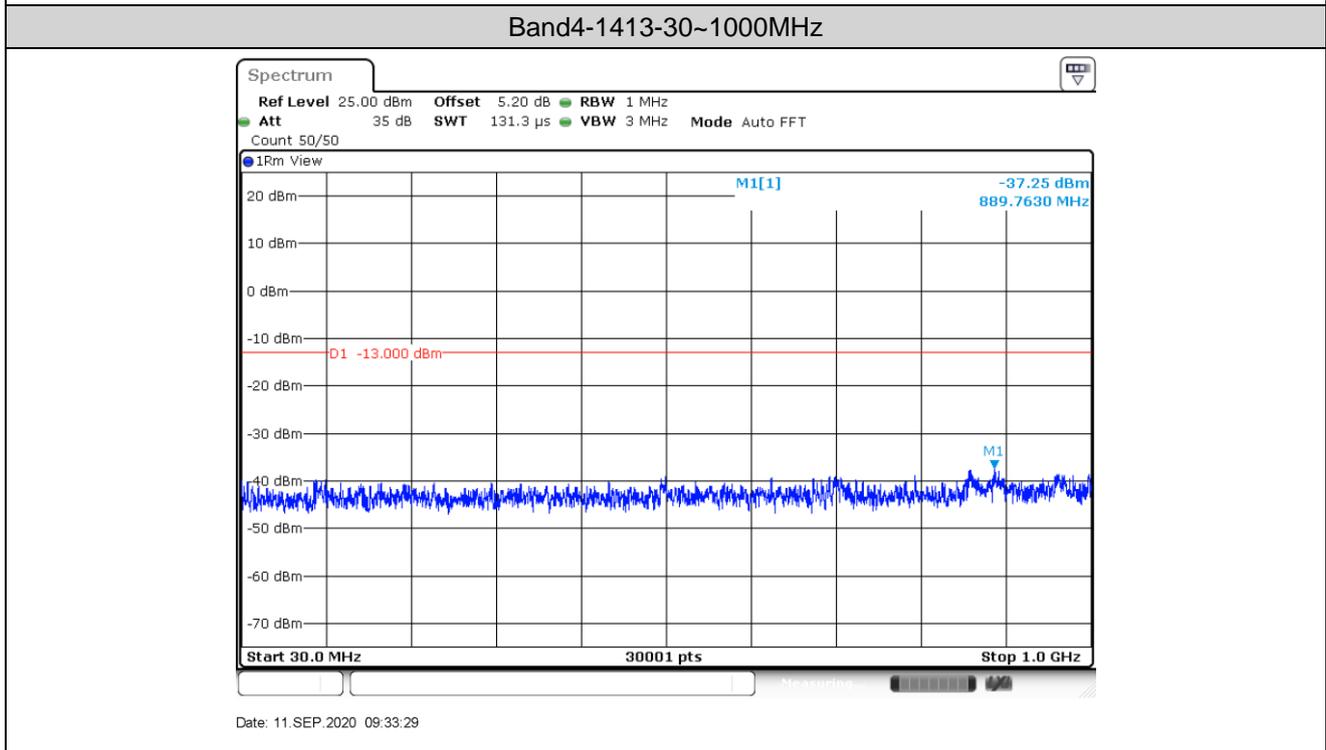
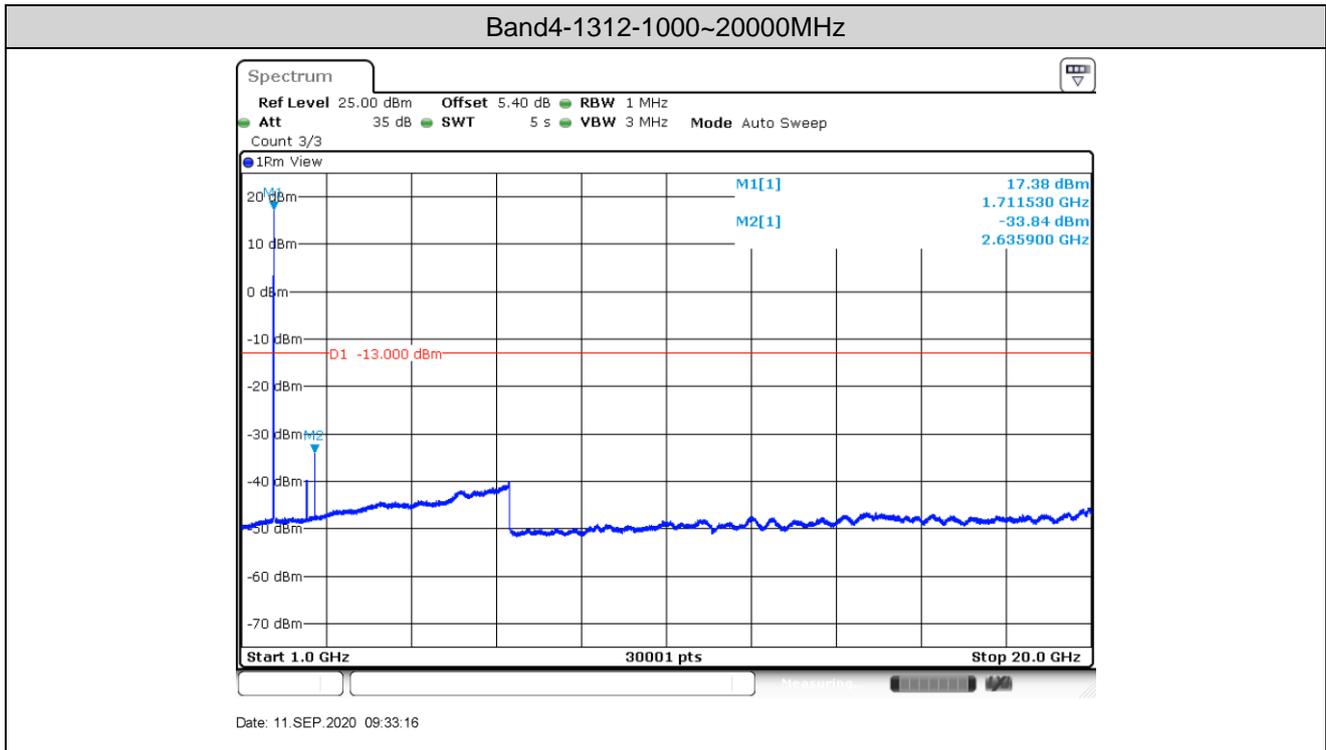
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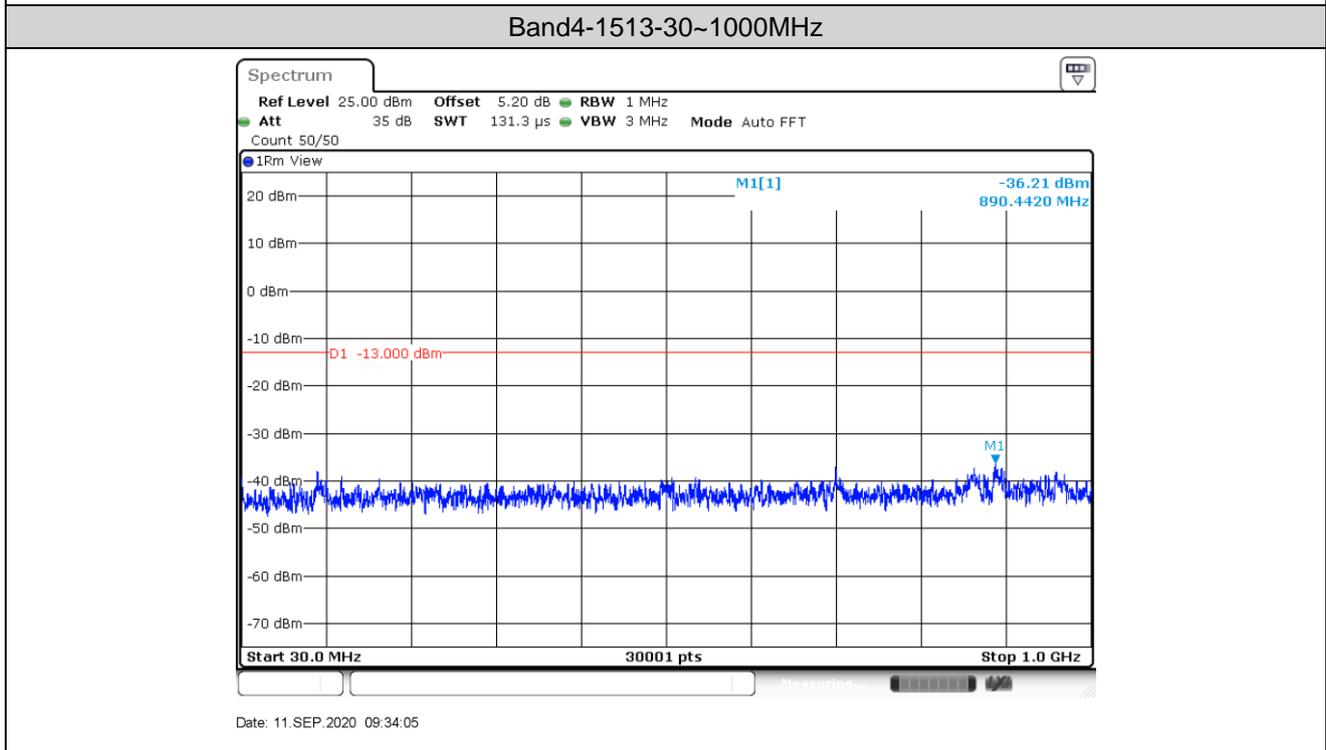
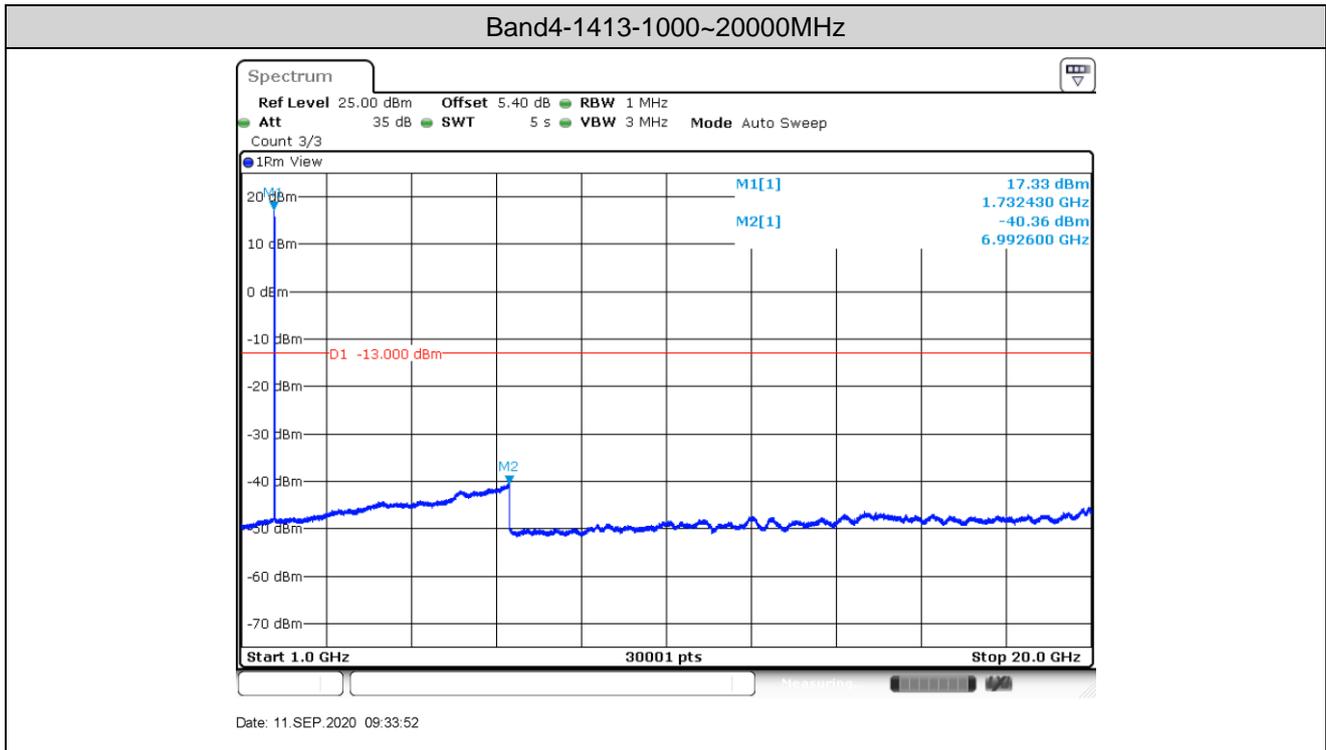
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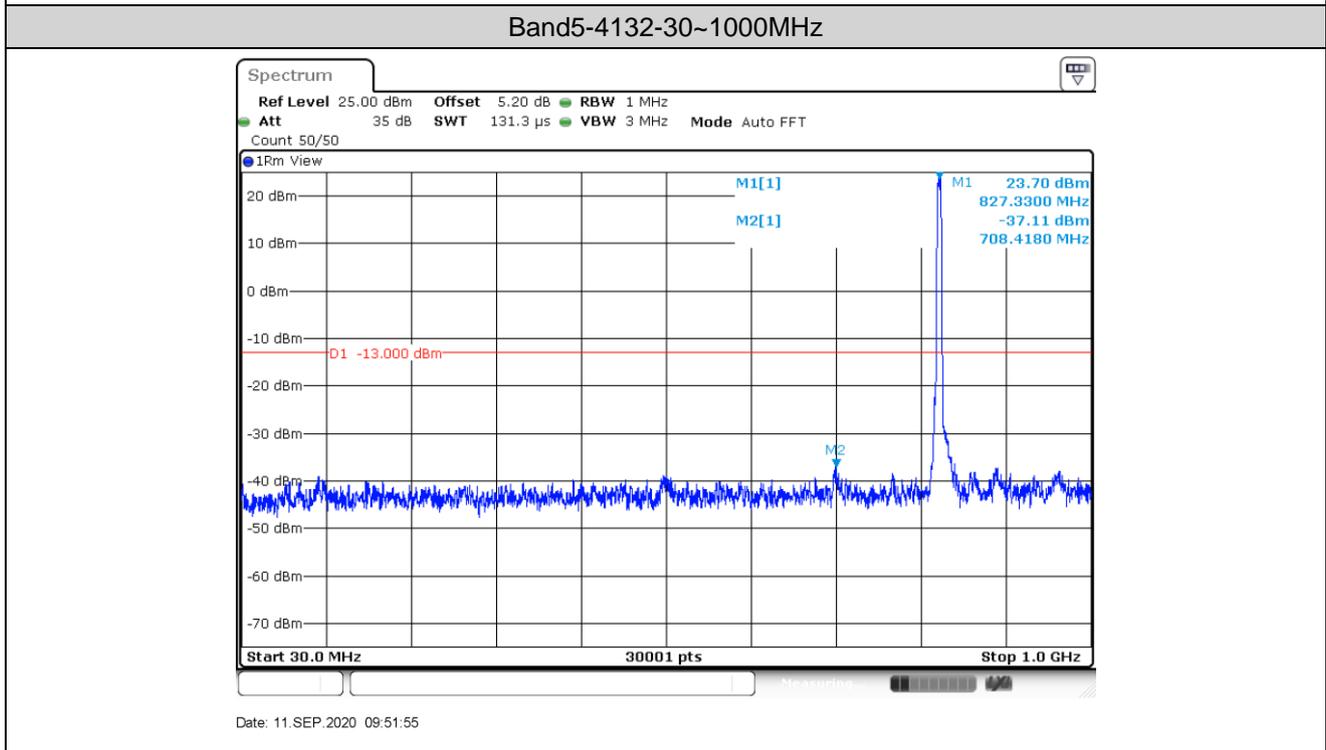
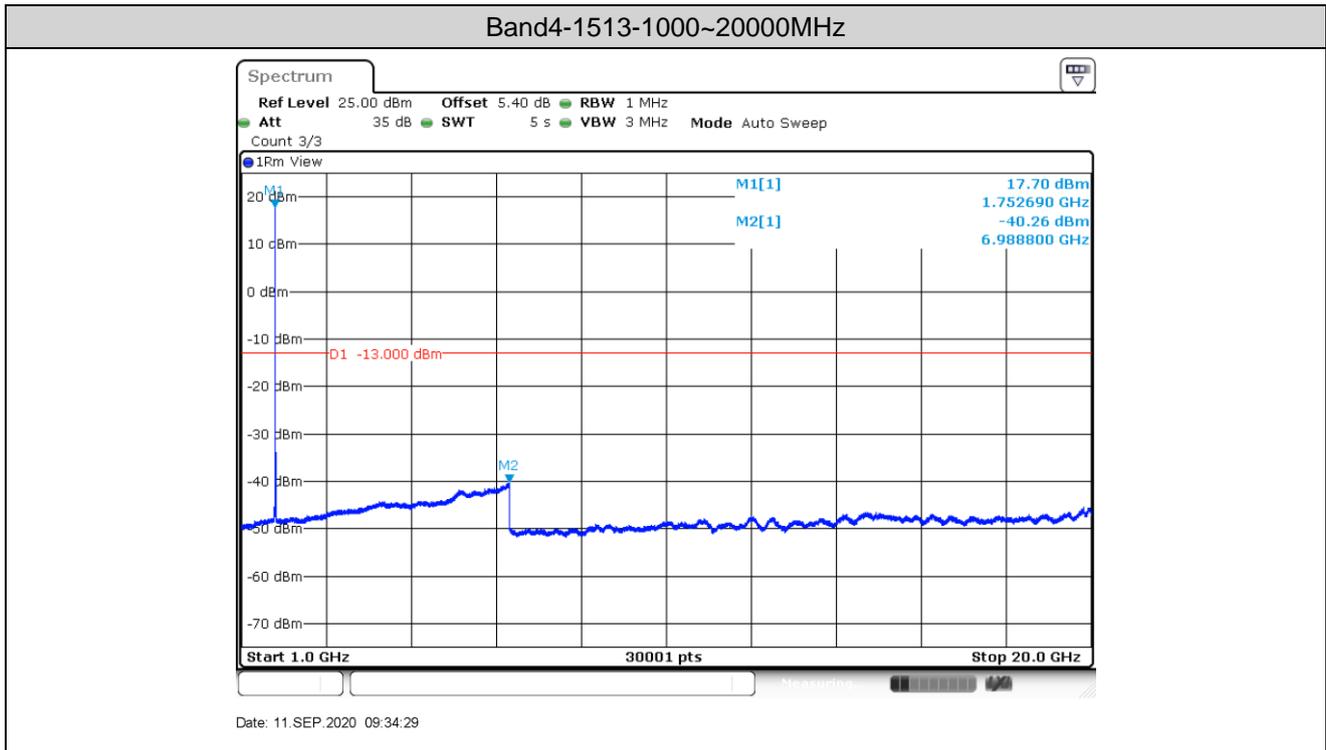
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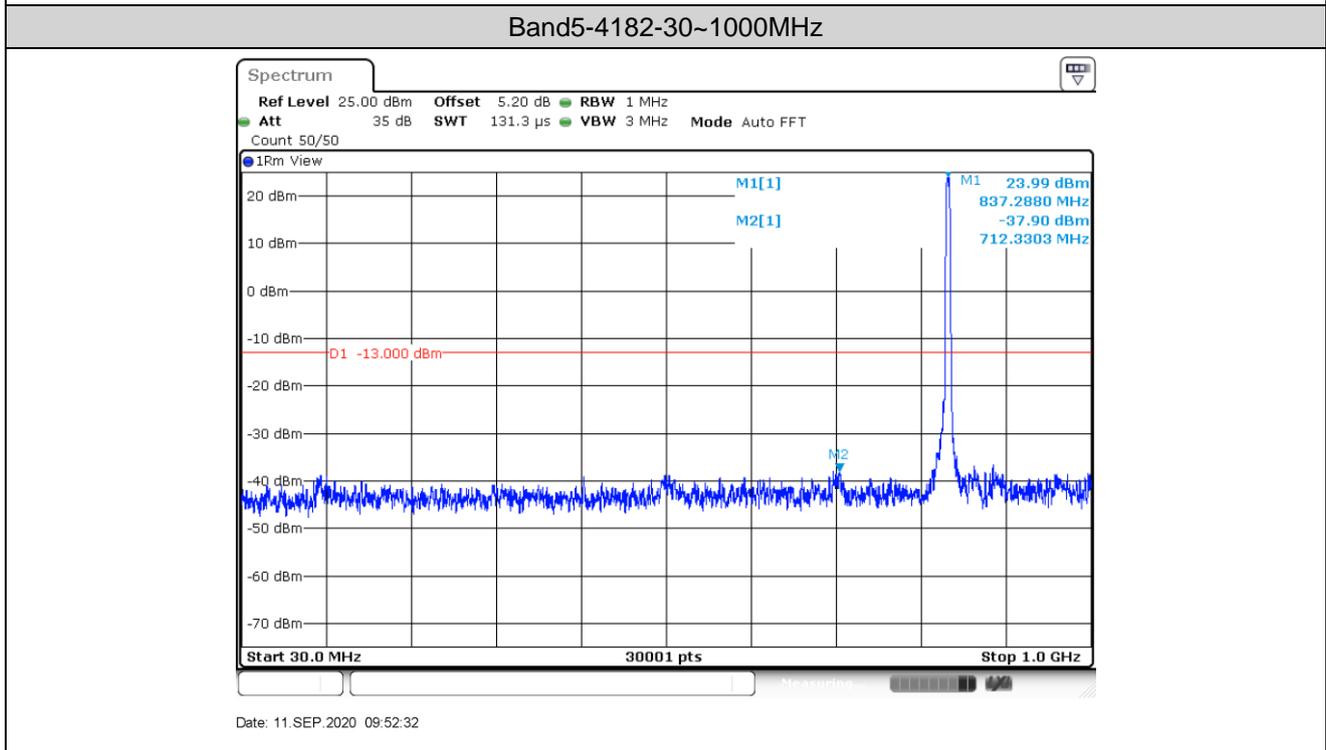
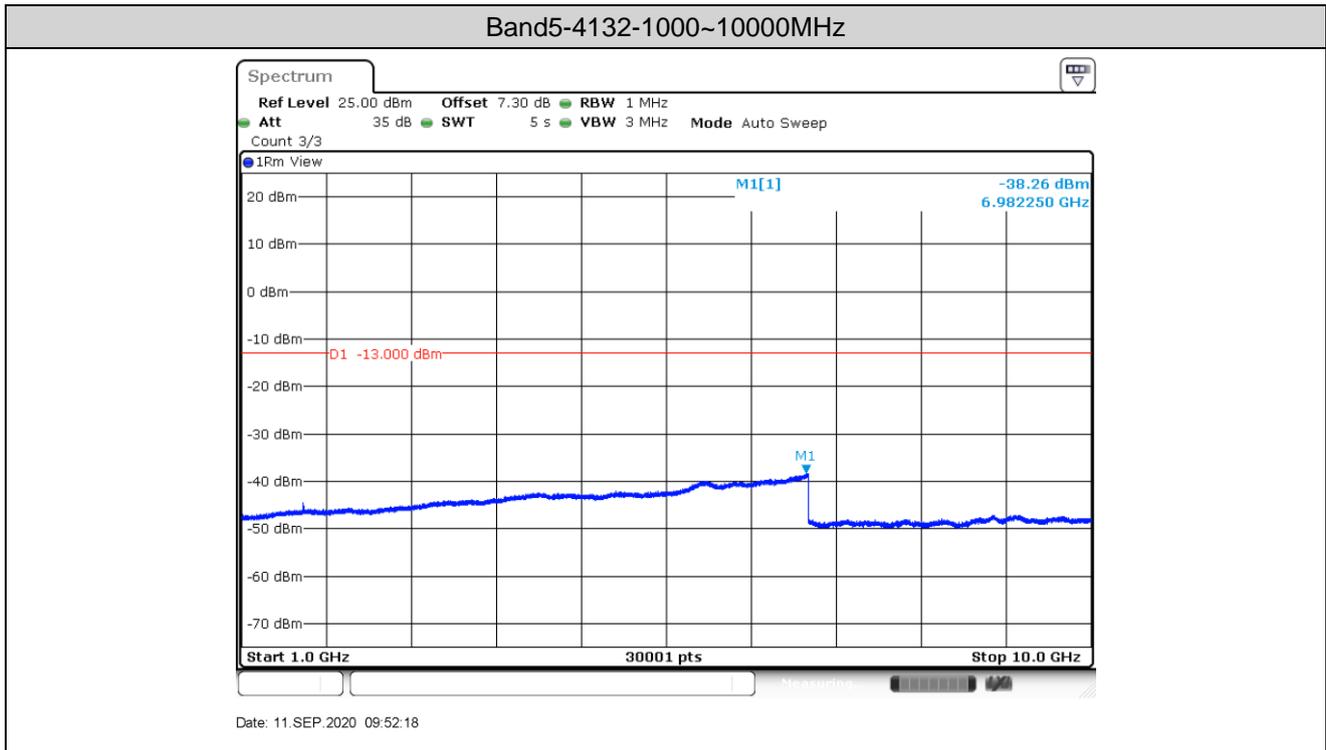
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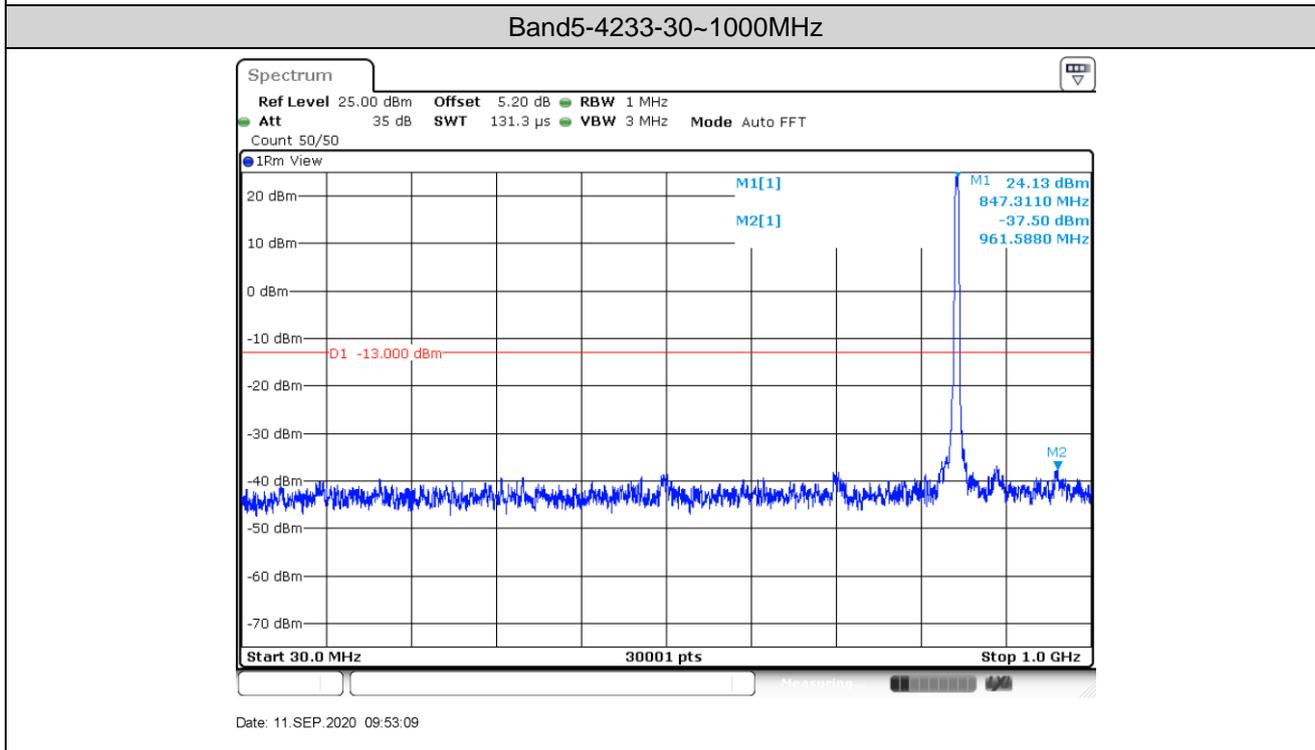
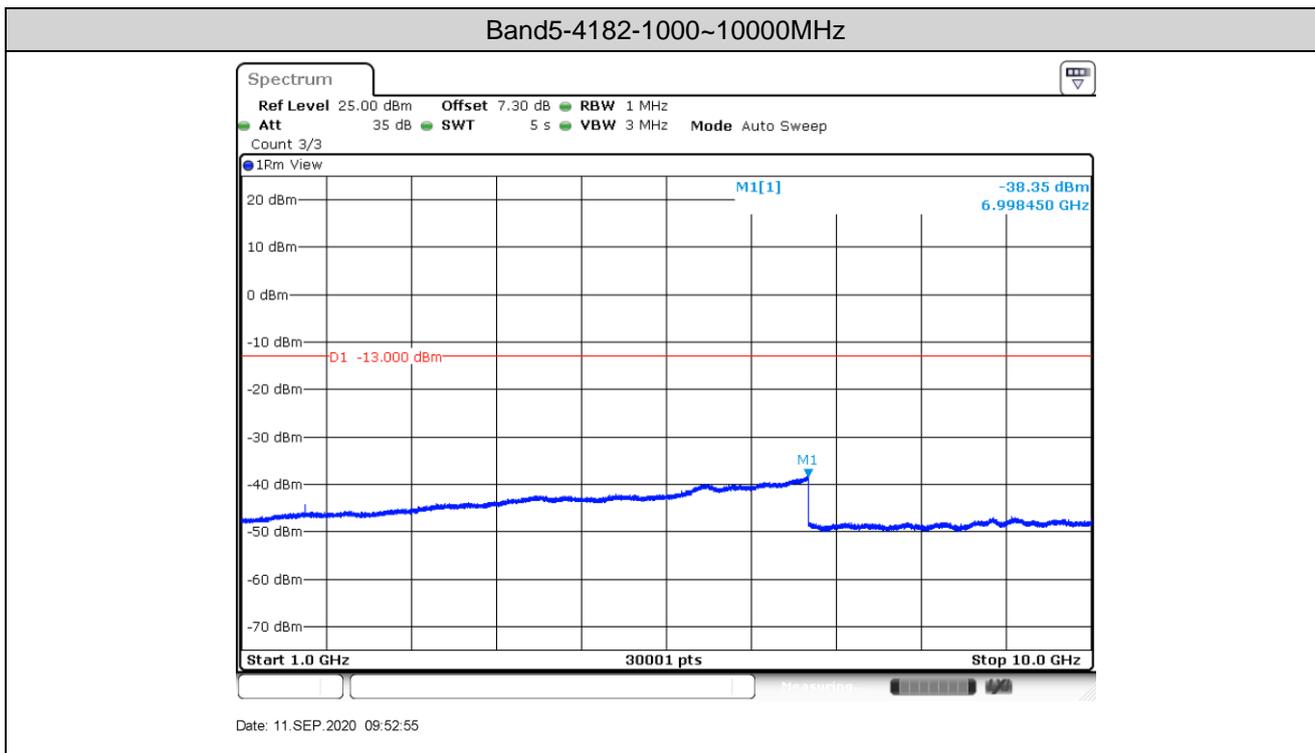
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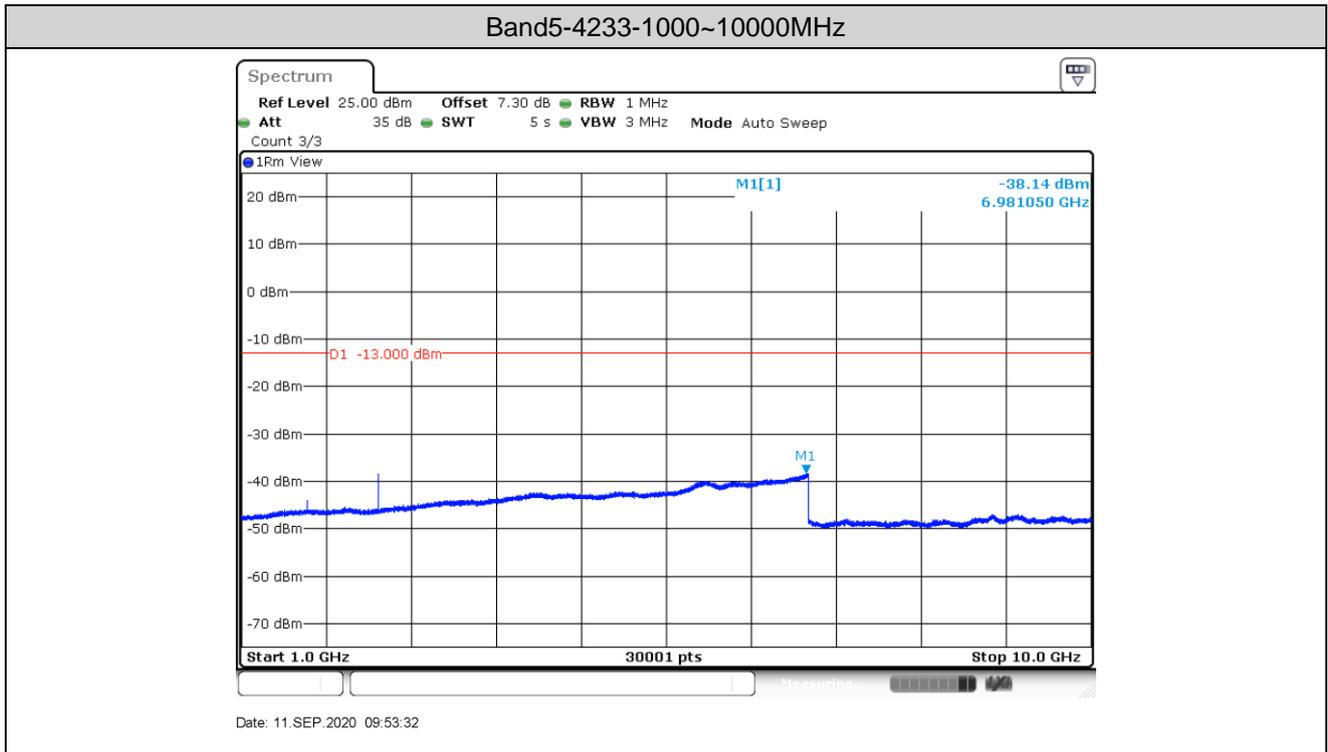
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7. Field Strength of Spurious Radiation

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
58.1799	-71.10	-13.00	58.10	Vertical
109.5440	-64.86	-13.00	51.86	Vertical
734.6917	-62.88	-13.00	49.88	Vertical
3748.5250	-61.52	-13.00	48.52	Vertical
7359.1453	-55.60	-13.00	42.60	Vertical
17997.9999	-40.37	-13.00	27.37	Vertical
43.2412	-64.04	-13.00	51.04	Horizontal
80.1030	-74.88	-13.00	61.88	Horizontal
229.1025	-68.61	-13.00	55.61	Horizontal
4519.5507	-61.55	-13.00	48.55	Horizontal
7434.1478	-56.44	-13.00	43.44	Horizontal
16391.4464	-43.26	-13.00	30.26	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.8860	-72.65	-13.00	59.65	Vertical
103.7722	-65.49	-13.00	52.49	Vertical
372.5726	-67.05	-13.00	54.05	Vertical
3576.0192	-62.04	-13.00	49.04	Vertical
7967.1656	-55.81	-13.00	42.81	Vertical
17997.4999	-40.29	-13.00	27.29	Vertical
44.4052	-63.62	-13.00	50.62	Horizontal
99.1160	-75.63	-13.00	62.63	Horizontal



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242.1011	-68.69	-13.00	55.69	Horizontal
5556.0852	-61.55	-13.00	48.55	Horizontal
7462.6488	-56.04	-13.00	43.04	Horizontal
16398.4466	-43.31	-13.00	30.31	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.4309	-72.86	-13.00	59.86	Vertical
116.6738	-64.83	-13.00	51.83	Vertical
393.1377	-68.27	-13.00	55.27	Vertical
3714.5238	-62.20	-13.00	49.20	Vertical
7460.1487	-55.73	-13.00	42.73	Vertical
17996.4999	-39.93	-13.00	26.93	Vertical
39.4095	-63.93	-13.00	50.93	Horizontal
111.3386	-75.48	-13.00	62.48	Horizontal
240.6945	-67.86	-13.00	54.86	Horizontal
3841.5281	-61.09	-13.00	48.09	Horizontal
7482.6494	-56.28	-13.00	43.28	Horizontal
16394.9465	-44.01	-13.00	31.01	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
47.0729	-71.07	-13.00	58.07	Vertical
112.2601	-62.50	-13.00	49.50	Vertical
610.4285	-61.50	-13.00	48.50	Vertical
3702.0234	-60.43	-13.00	47.43	Vertical
7453.1484	-53.33	-13.00	40.33	Vertical
17986.4996	-33.89	-13.00	20.89	Vertical



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44.8417	-62.25	-13.00	49.25	Horizontal
101.8321	-73.20	-13.00	60.20	Horizontal
242.8286	-64.99	-13.00	51.99	Horizontal
3542.0181	-59.54	-13.00	46.54	Horizontal
7465.1488	-53.56	-13.00	40.56	Horizontal
16404.9468	-35.09	-13.00	22.09	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.2740	-70.83	-13.00	57.83	Vertical
107.3614	-63.29	-13.00	50.29	Vertical
287.4024	-66.27	-13.00	53.27	Vertical
3571.5191	-60.48	-13.00	47.48	Vertical
7412.1471	-53.34	-13.00	40.34	Vertical
17998.5000	-34.22	-13.00	21.22	Vertical
41.8346	-62.58	-13.00	49.58	Horizontal
98.8249	-73.38	-13.00	60.38	Horizontal
227.5019	-65.82	-13.00	52.82	Horizontal
3631.0210	-59.47	-13.00	46.47	Horizontal
7475.6492	-53.74	-13.00	40.74	Horizontal
16398.9466	-35.26	-13.00	22.26	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.5279	-71.01	-13.00	58.01	Vertical
109.8350	-62.58	-13.00	49.58	Vertical
395.4173	-65.84	-13.00	52.84	Vertical
3521.5174	-60.54	-13.00	47.54	Vertical
7450.1483	-53.37	-13.00	40.37	Vertical
17997.4999	-34.23	-13.00	21.23	Vertical
44.0172	-62.32	-13.00	49.32	Horizontal
99.0190	-73.15	-13.00	60.15	Horizontal



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242.3436	-65.59	-13.00	52.59	Horizontal
3599.5200	-59.49	-13.00	46.49	Horizontal
7497.1499	-53.41	-13.00	40.41	Horizontal
16403.4468	-35.45	-13.00	22.45	Horizontal

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
50.5165	-72.13	-13.00	59.13	Vertical
112.6481	-65.24	-13.00	52.24	Vertical
354.7722	-69.30	-13.00	56.30	Vertical
1651.7303	-60.27	-13.00	47.27	Vertical
2465.8932	-46.19	-13.00	33.19	Vertical
7360.2120	-56.03	-13.00	43.03	Vertical
44.4052	-64.57	-13.00	51.57	Horizontal
554.4567	-63.81	-13.00	50.81	Horizontal
1654.1308	-56.36	-13.00	43.36	Horizontal
2700.7401	-50.99	-13.00	37.99	Horizontal
5640.0213	-61.05	-13.00	48.05	Horizontal
9338.9446	-52.89	-13.00	39.89	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.8978	-65.50	-13.00	52.50	Vertical
488.9784	-66.22	-13.00	53.22	Vertical
1670.5341	-60.33	-13.00	47.33	Vertical
2465.4931	-47.02	-13.00	34.02	Vertical
7417.3806	-56.01	-13.00	43.01	Vertical
9897.3299	-52.69	-13.00	39.69	Vertical



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45.0843	-63.98	-13.00	50.98	Horizontal
236.1838	-67.86	-13.00	54.86	Horizontal
1670.9342	-58.29	-13.00	45.29	Horizontal
2465.4931	-46.38	-13.00	33.38	Horizontal
7444.9148	-55.98	-13.00	42.98	Horizontal
9324.7108	-52.57	-13.00	39.57	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.3225	-72.42	-13.00	59.42	Vertical
115.8978	-65.60	-13.00	52.60	Vertical
461.9141	-67.07	-13.00	54.07	Vertical
1942.9886	-58.12	-13.00	45.12	Vertical
2688.7377	-52.20	-13.00	39.20	Vertical
8021.7341	-55.52	-13.00	42.52	Vertical
39.0215	-64.61	-13.00	51.61	Horizontal
103.2872	-75.27	-13.00	62.27	Horizontal
239.1910	-67.70	-13.00	54.70	Horizontal
1691.3383	-58.91	-13.00	45.91	Horizontal
2700.7401	-50.93	-13.00	37.93	Horizontal
9314.9105	-52.53	-13.00	39.53	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	1.54	0.000831	±2.5	PASS
Band2	9262	VN	NT	0.97	0.000524	±2.5	PASS
Band2	9262	VH	NT	1.54	0.000831	±2.5	PASS
Band2	9400	VL	NT	-2.25	-0.001197	±2.5	PASS
Band2	9400	VN	NT	-2.34	-0.001245	±2.5	PASS
Band2	9400	VH	NT	-2.60	-0.001383	±2.5	PASS
Band2	9538	VL	NT	-8.28	-0.004341	±2.5	PASS
Band2	9538	VN	NT	-8.07	-0.004230	±2.5	PASS
Band2	9538	VH	NT	-8.00	-0.004194	±2.5	PASS
Band4	1312	VL	NT	16.77	0.009793	±2.5	PASS
Band4	1312	VN	NT	16.79	0.009805	±2.5	PASS
Band4	1312	VH	NT	17.02	0.009939	±2.5	PASS
Band4	1413	VL	NT	-1.97	-0.001137	±2.5	PASS
Band4	1413	VN	NT	-1.93	-0.001114	±2.5	PASS
Band4	1413	VH	NT	-2.02	-0.001166	±2.5	PASS
Band4	1513	VL	NT	-16.21	-0.009249	±2.5	PASS
Band4	1513	VN	NT	-16.14	-0.009209	±2.5	PASS
Band4	1513	VH	NT	-16.26	-0.009278	±2.5	PASS
Band5	4132	VL	NT	0.87	0.001053	±2.5	PASS
Band5	4132	VN	NT	0.71	0.000859	±2.5	PASS
Band5	4132	VH	NT	0.65	0.000787	±2.5	PASS
Band5	4182	VL	NT	-0.09	-0.000108	±2.5	PASS
Band5	4182	VN	NT	-0.16	-0.000191	±2.5	PASS
Band5	4182	VH	NT	-0.31	-0.000371	±2.5	PASS
Band5	4233	VL	NT	-2.66	-0.003142	±2.5	PASS
Band5	4233	VN	NT	-2.43	-0.002870	±2.5	PASS
Band5	4233	VH	NT	-2.54	-0.003000	±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
Band2	9262	NV	-30	1.86	0.001004	±2.5	PASS
Band2	9262	NV	-20	1.94	0.001047	±2.5	PASS
Band2	9262	NV	-10	2.12	0.001144	±2.5	PASS
Band2	9262	NV	0	2.13	0.001150	±2.5	PASS
Band2	9262	NV	10	2.18	0.001177	±2.5	PASS
Band2	9262	NV	20	2.27	0.001225	±2.5	PASS
Band2	9262	NV	30	2.49	0.001344	±2.5	PASS
Band2	9262	NV	40	2.60	0.001404	±2.5	PASS
Band2	9262	NV	50	2.50	0.001350	±2.5	PASS
Band2	9400	NV	-30	-2.55	-0.001356	±2.5	PASS
Band2	9400	NV	-20	-2.67	-0.001420	±2.5	PASS
Band2	9400	NV	-10	-2.44	-0.001298	±2.5	PASS
Band2	9400	NV	0	-2.68	-0.001426	±2.5	PASS
Band2	9400	NV	10	-2.53	-0.001346	±2.5	PASS
Band2	9400	NV	20	-2.96	-0.001574	±2.5	PASS
Band2	9400	NV	30	-2.73	-0.001452	±2.5	PASS
Band2	9400	NV	40	-2.73	-0.001452	±2.5	PASS
Band2	9400	NV	50	-2.65	-0.001410	±2.5	PASS
Band2	9538	NV	-30	-8.08	-0.004236	±2.5	PASS
Band2	9538	NV	-20	-8.08	-0.004236	±2.5	PASS
Band2	9538	NV	-10	-7.77	-0.004073	±2.5	PASS
Band2	9538	NV	0	-7.54	-0.003953	±2.5	PASS
Band2	9538	NV	10	-7.82	-0.004099	±2.5	PASS
Band2	9538	NV	20	-7.78	-0.004078	±2.5	PASS
Band2	9538	NV	30	-7.86	-0.004120	±2.5	PASS
Band2	9538	NV	40	-8.00	-0.004194	±2.5	PASS
Band2	9538	NV	50	-7.86	-0.004120	±2.5	PASS
Band4	1312	NV	-30	17.19	0.010039	±2.5	PASS
Band4	1312	NV	-20	17.24	0.010068	±2.5	PASS
Band4	1312	NV	-10	17.26	0.010079	±2.5	PASS
Band4	1312	NV	0	17.32	0.010114	±2.5	PASS
Band4	1312	NV	10	17.19	0.010039	±2.5	PASS
Band4	1312	NV	20	17.26	0.010079	±2.5	PASS



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Band4	1312	NV	30	17.38	0.010149	±2.5	PASS
Band4	1312	NV	40	16.97	0.009910	±2.5	PASS
Band4	1312	NV	50	17.16	0.010021	±2.5	PASS
Band4	1413	NV	-30	-1.87	-0.001079	±2.5	PASS
Band4	1413	NV	-20	-1.92	-0.001108	±2.5	PASS
Band4	1413	NV	-10	-1.81	-0.001045	±2.5	PASS
Band4	1413	NV	0	-2.06	-0.001189	±2.5	PASS
Band4	1413	NV	10	-1.57	-0.000906	±2.5	PASS
Band4	1413	NV	20	-1.85	-0.001068	±2.5	PASS
Band4	1413	NV	30	-1.97	-0.001137	±2.5	PASS
Band4	1413	NV	40	-2.04	-0.001177	±2.5	PASS
Band4	1413	NV	50	-1.78	-0.001027	±2.5	PASS
Band4	1513	NV	-30	-16.24	-0.009266	±2.5	PASS
Band4	1513	NV	-20	-16.31	-0.009306	±2.5	PASS
Band4	1513	NV	-10	-16.42	-0.009369	±2.5	PASS
Band4	1513	NV	0	-16.54	-0.009437	±2.5	PASS
Band4	1513	NV	10	-16.40	-0.009358	±2.5	PASS
Band4	1513	NV	20	-16.39	-0.009352	±2.5	PASS
Band4	1513	NV	30	-16.29	-0.009295	±2.5	PASS
Band4	1513	NV	40	-16.28	-0.009289	±2.5	PASS
Band4	1513	NV	50	-16.27	-0.009283	±2.5	PASS
Band5	4132	NV	-30	0.94	0.001137	±2.5	PASS
Band5	4132	NV	-20	0.88	0.001065	±2.5	PASS
Band5	4132	NV	-10	0.93	0.001125	±2.5	PASS
Band5	4132	NV	0	1.05	0.001271	±2.5	PASS
Band5	4132	NV	10	1.02	0.001234	±2.5	PASS
Band5	4132	NV	20	1.04	0.001258	±2.5	PASS
Band5	4132	NV	30	0.98	0.001186	±2.5	PASS
Band5	4132	NV	40	1.11	0.001343	±2.5	PASS
Band5	4132	NV	50	1.10	0.001331	±2.5	PASS
Band5	4182	NV	-30	-0.24	-0.000287	±2.5	PASS
Band5	4182	NV	-20	-0.19	-0.000227	±2.5	PASS
Band5	4182	NV	-10	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	0	-0.24	-0.000287	±2.5	PASS
Band5	4182	NV	10	-0.10	-0.000120	±2.5	PASS
Band5	4182	NV	20	-0.36	-0.000430	±2.5	PASS
Band5	4182	NV	30	-0.29	-0.000347	±2.5	PASS



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Band5	4182	NV	40	-0.31	-0.000371	±2.5	PASS
Band5	4182	NV	50	-0.18	-0.000215	±2.5	PASS
Band5	4233	NV	-30	-2.50	-0.002953	±2.5	PASS
Band5	4233	NV	-20	-2.57	-0.003036	±2.5	PASS
Band5	4233	NV	-10	-2.54	-0.003000	±2.5	PASS
Band5	4233	NV	0	-2.52	-0.002977	±2.5	PASS
Band5	4233	NV	10	-2.57	-0.003036	±2.5	PASS
Band5	4233	NV	20	-2.75	-0.003248	±2.5	PASS
Band5	4233	NV	30	-2.52	-0.002977	±2.5	PASS
Band5	4233	NV	40	-2.63	-0.003107	±2.5	PASS
Band5	4233	NV	50	-2.47	-0.002918	±2.5	PASS

The End



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