



Appendix B

WCDMA Band II & IV & V

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邮编 710086 sgs.china@sgs.com



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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	24.62	22.12	33.00	PASS
Band II	9400	24.54	22.04	33.00	PASS
Band II	9538	24.52	22.02	33.00	PASS
Band IV	1312	24.31	21.31	30.00	PASS
Band IV	1413	24.29	21.29	30.00	PASS
Band IV	1513	24.24	21.24	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.87	17.72	38.45	PASS
Band V	4182	24.85	17.70	38.45	PASS
Band V	4233	24.94	17.79	38.45	PASS

Remark:

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

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

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

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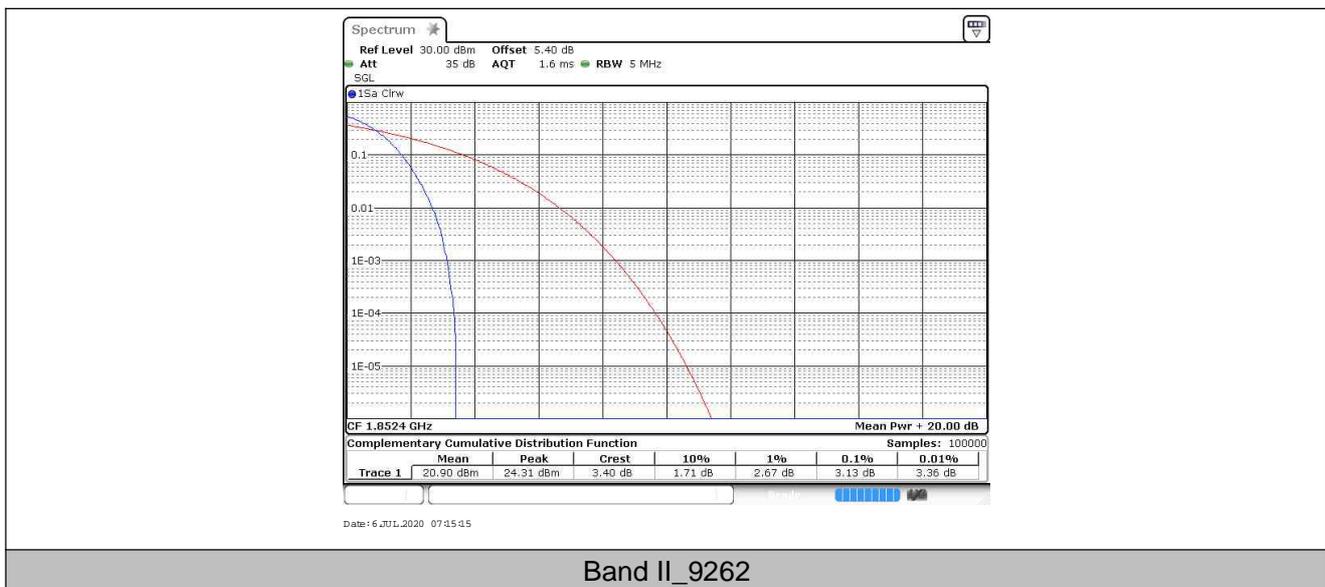


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	8.70	13	PASS
Band II	9538	2.96	13	PASS
Band IV	1312	3.01	13	PASS
Band IV	1413	3.16	13	PASS
Band IV	1513	2.78	13	PASS
Band V	4132	2.55	13	PASS
Band V	4182	2.64	13	PASS
Band V	4233	2.61	13	PASS

2.2. Test Plots



Band II_9262

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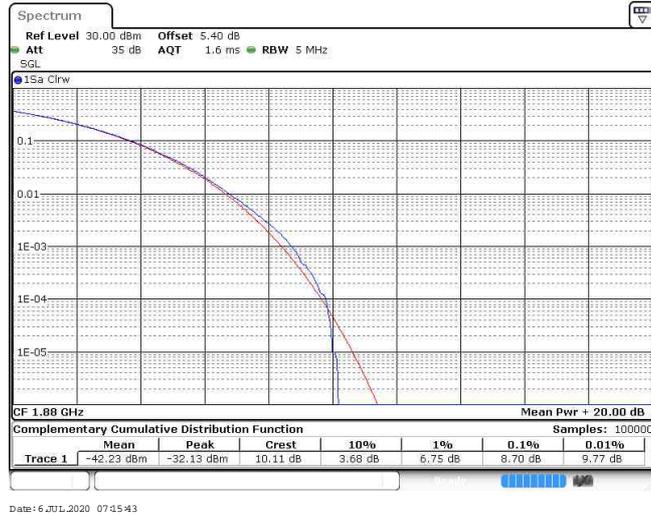
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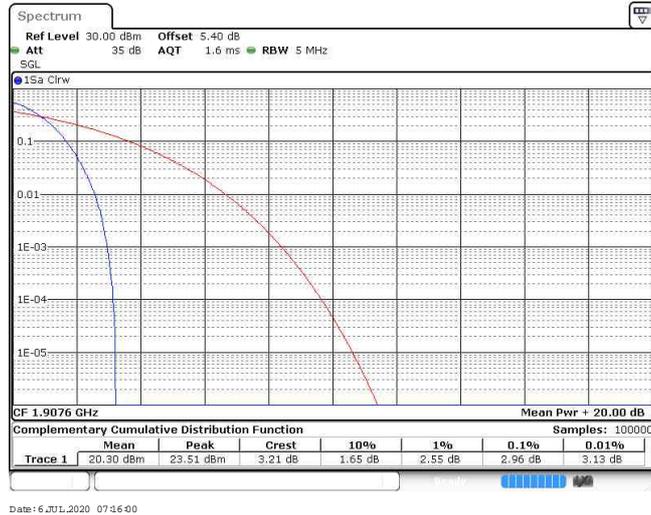
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Band II_9400



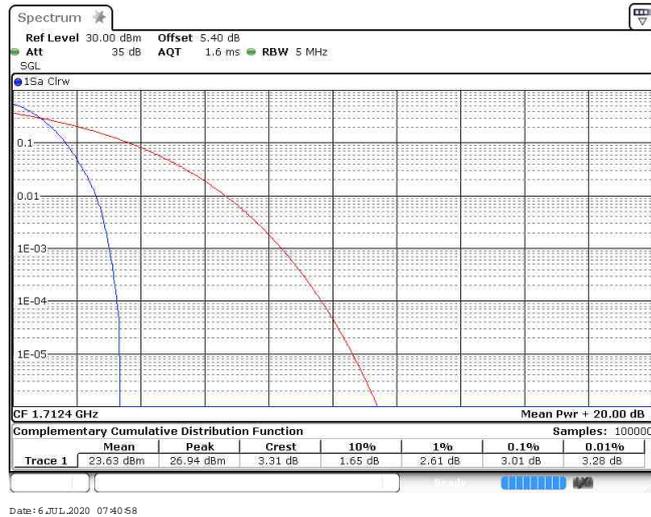
Band II_9538

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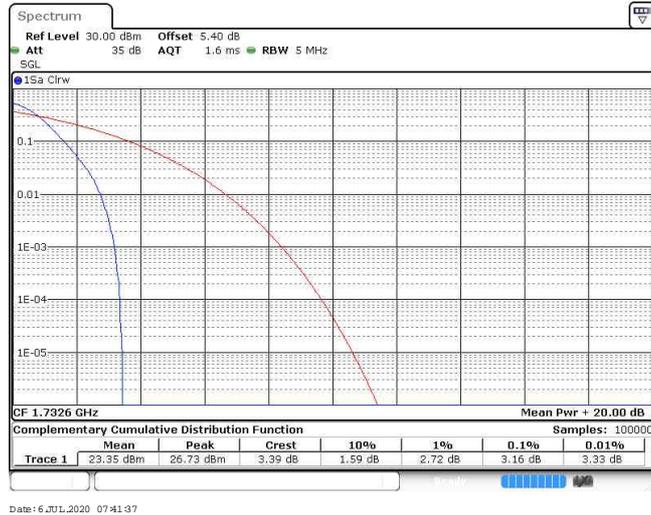
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Band IV_1312



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Band IV_1413

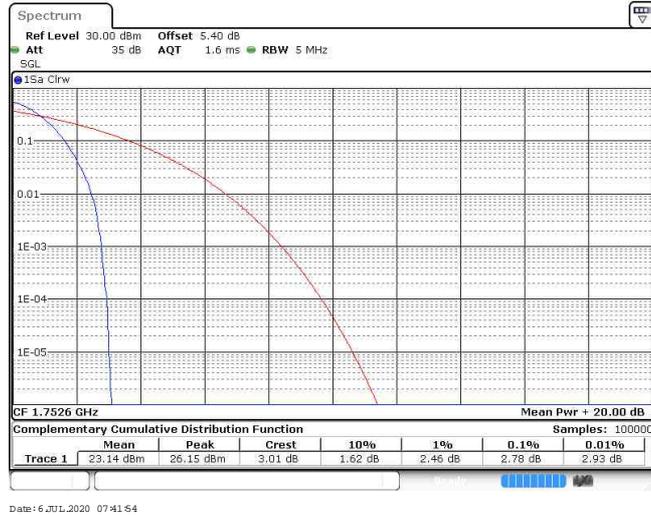
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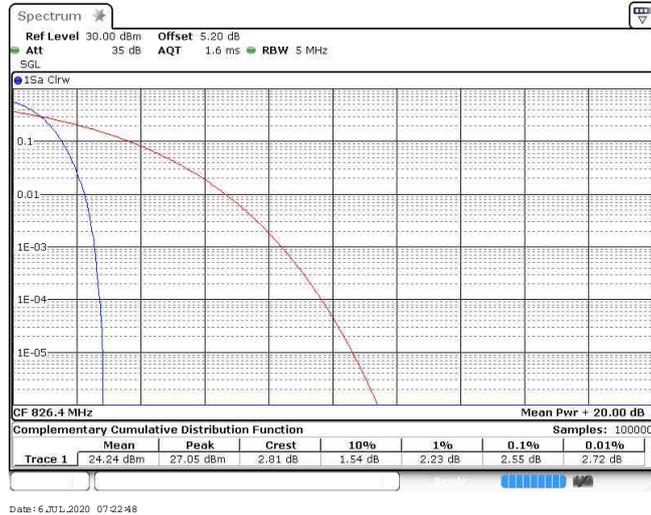
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Band IV_1513



Date: 6 JUL 2020 07:22:48

Band V_4132

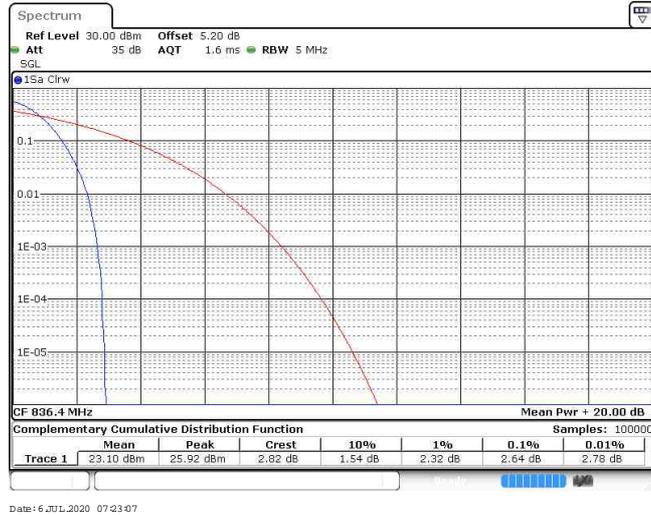
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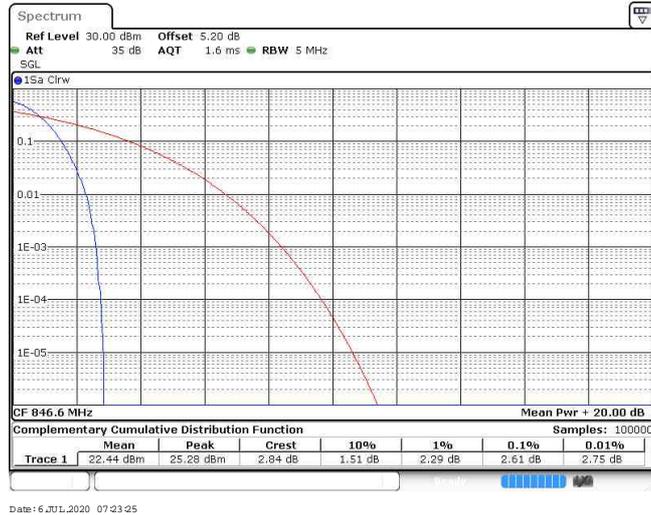
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Band V_4182



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Band V_4233

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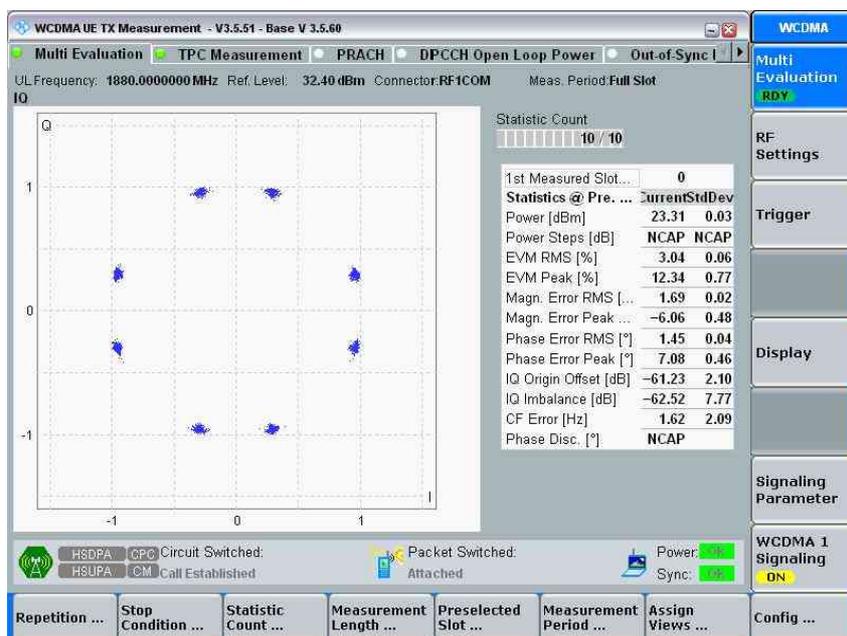
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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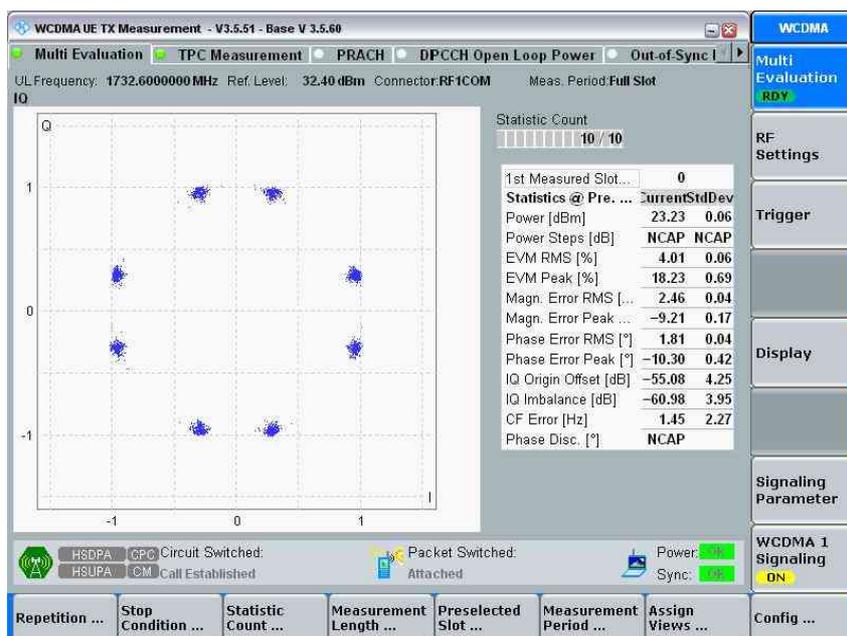
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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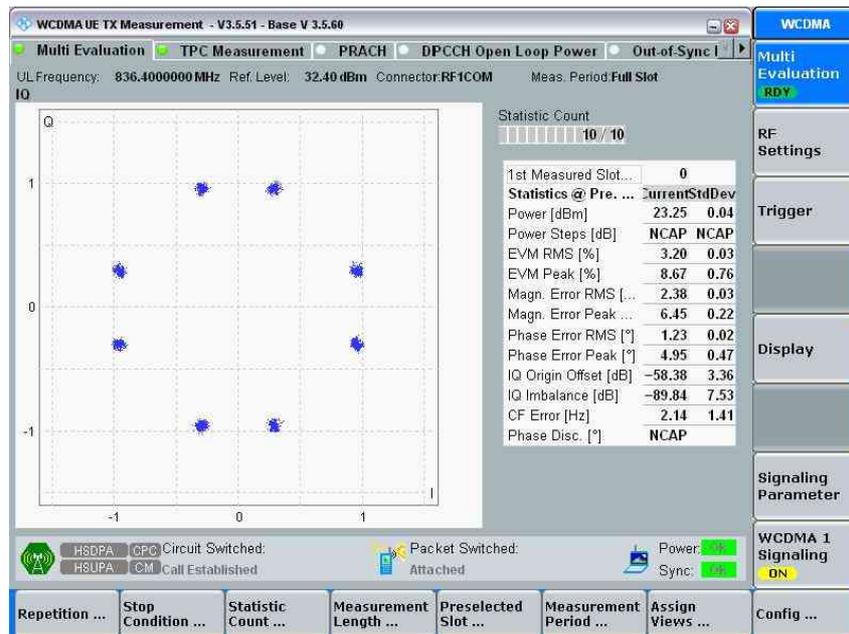
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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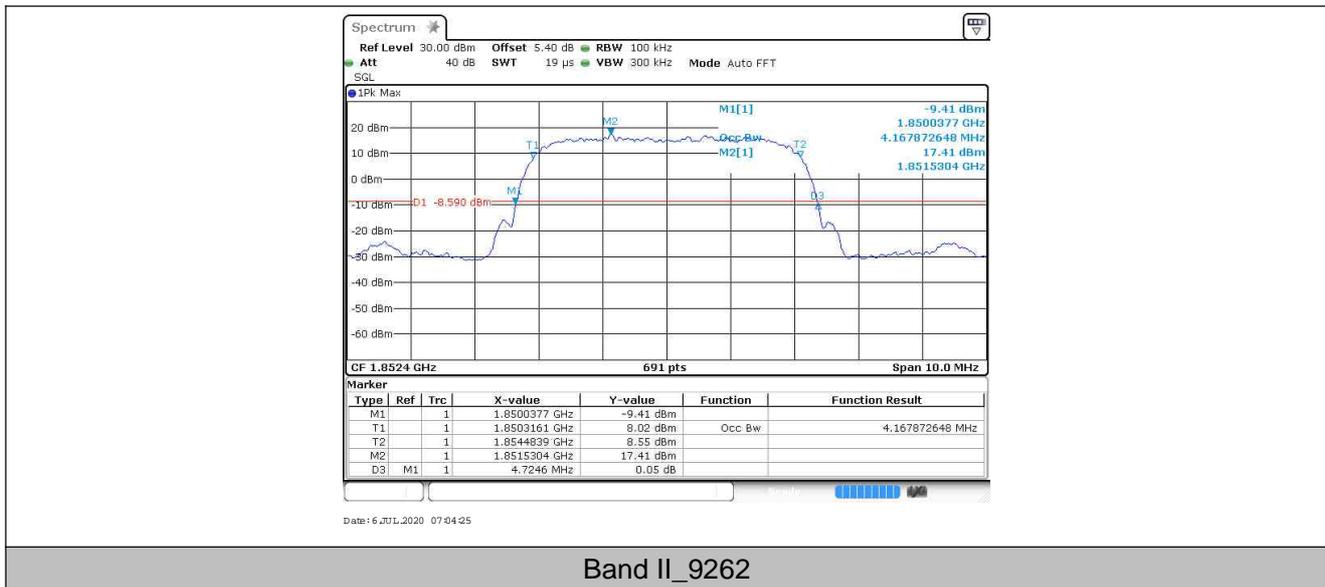
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4725	---	PASS
Band II	9400	4196.8	4739	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4167.9	4739	---	PASS
Band IV	1413	4167.9	4725	---	PASS
Band IV	1513	4182.3	4754	---	PASS
Band V	4132	4167.9	4768	---	PASS
Band V	4182	4153.4	4754	---	PASS
Band V	4233	4167.9	4754	---	PASS

4.2. Test Plots



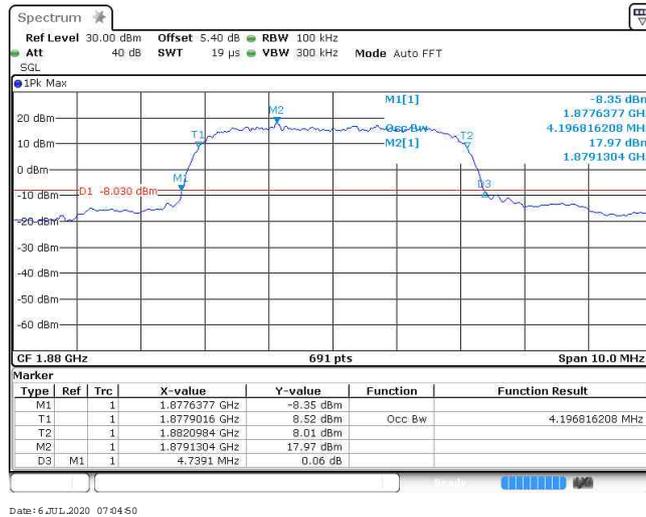
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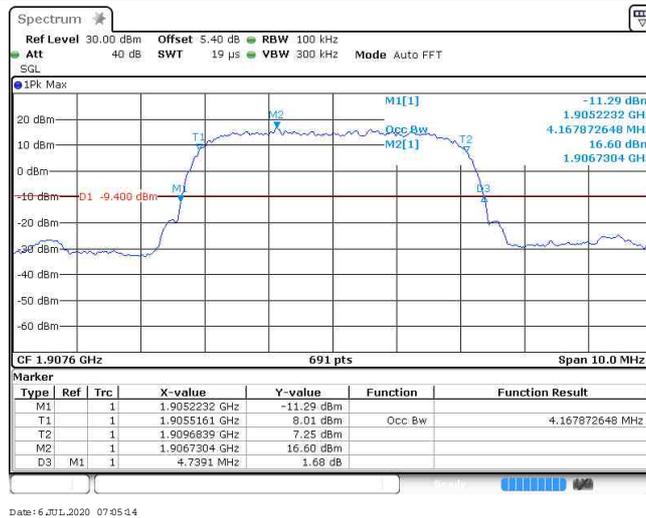
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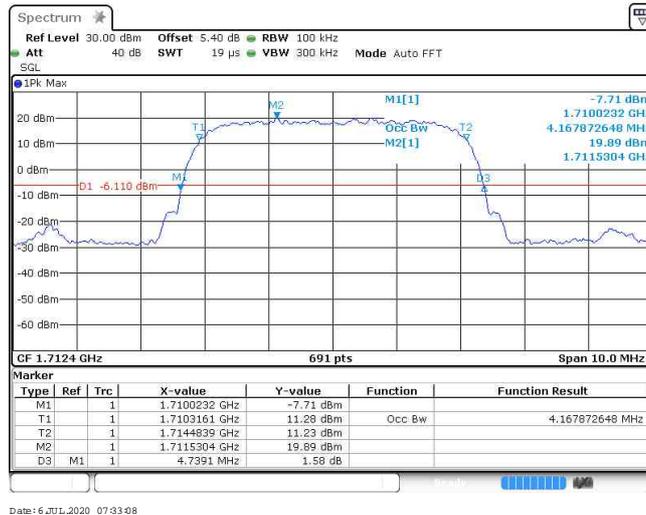
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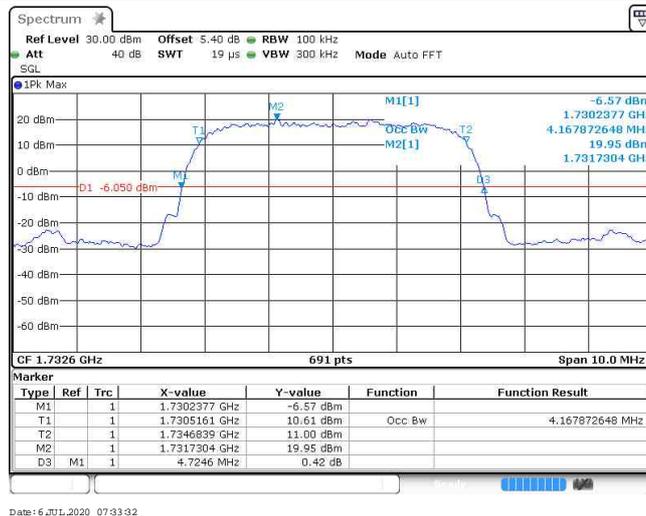
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Band IV_1312



Band IV_1413

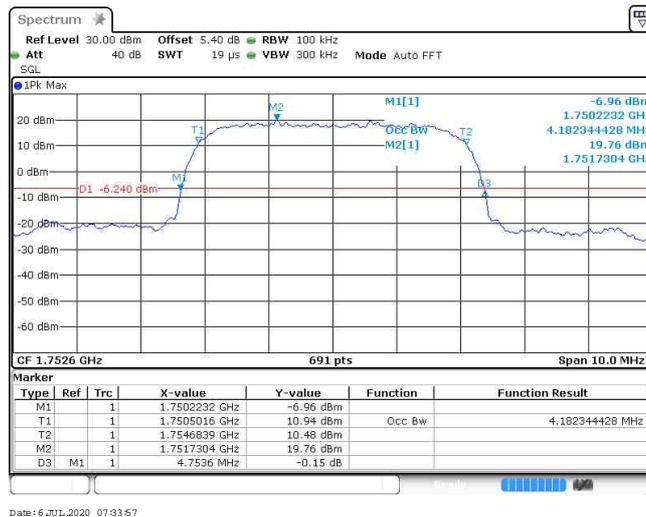
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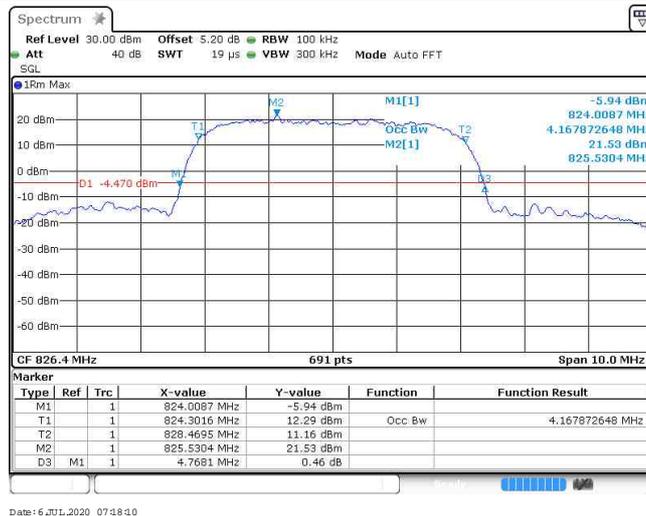
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Date: 6 JUL 2020 07:33:57

Band IV_1513



Date: 6 JUL 2020 07:48:40

Band V_4132

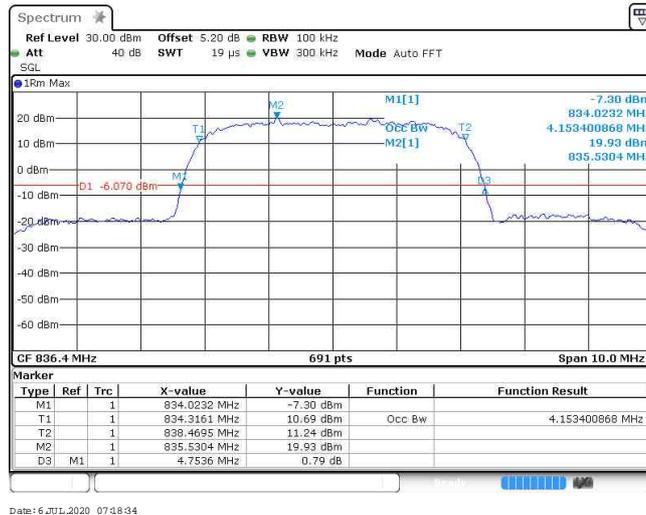
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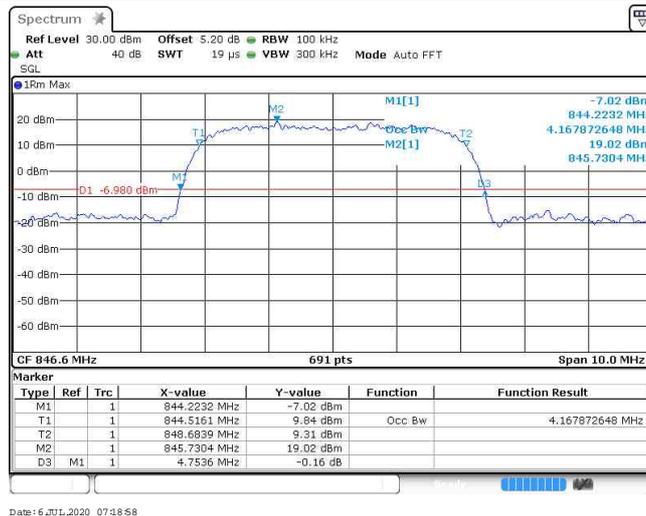
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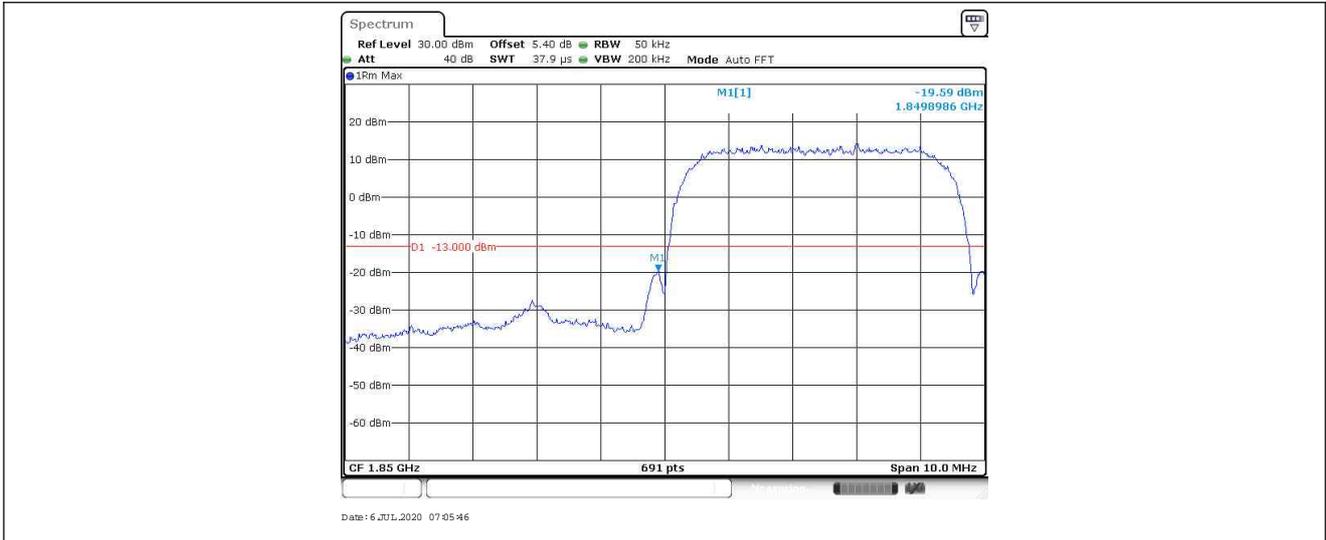
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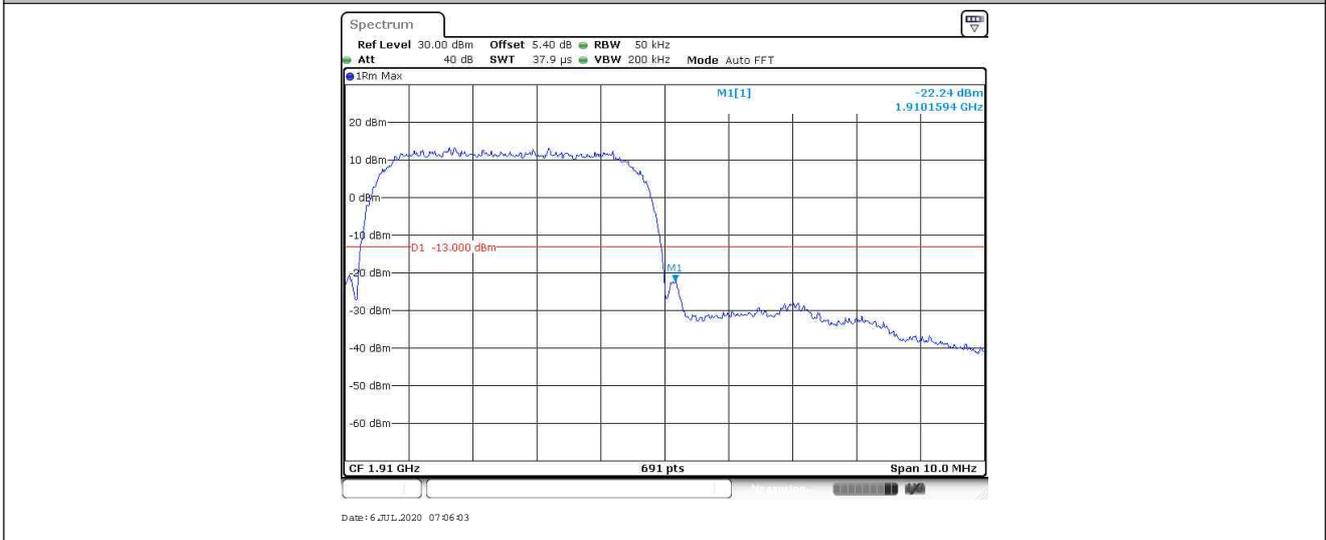
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5. Band Edge Compliance

5.1. Test Plots



Band II_9262



Band II_9538

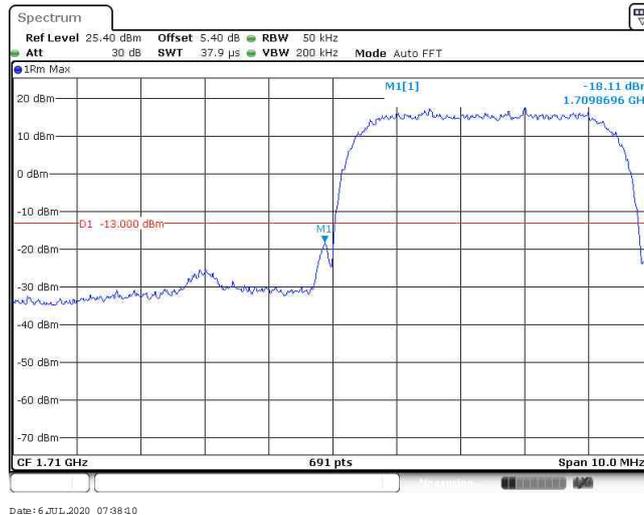
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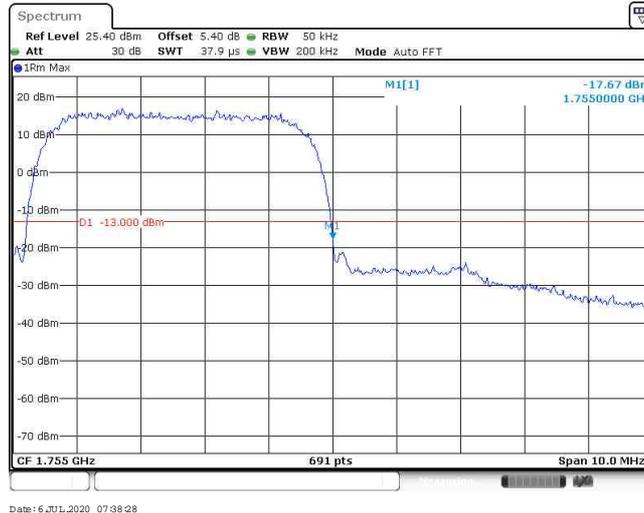
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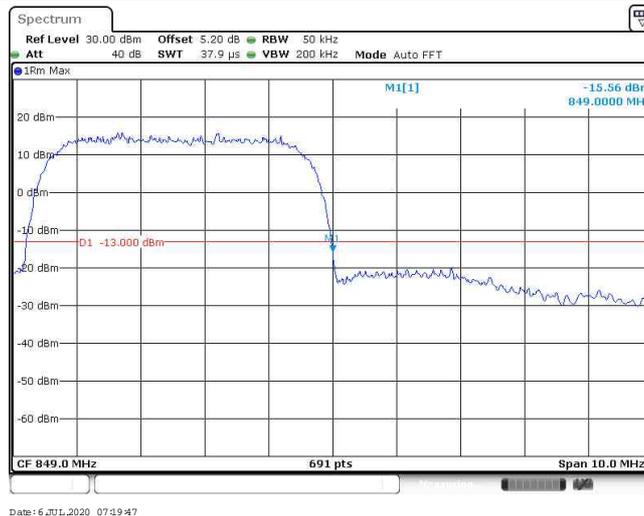
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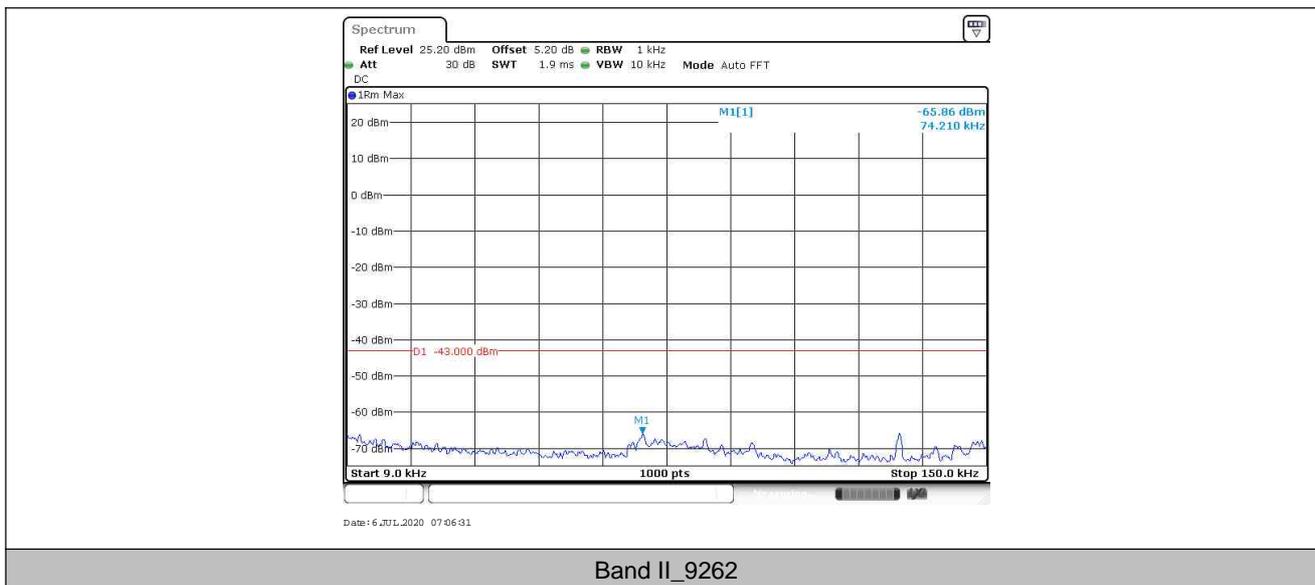
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6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots



Band II_9262

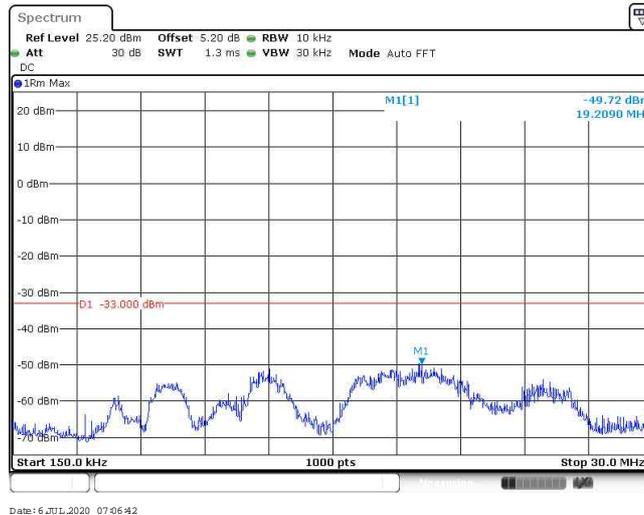
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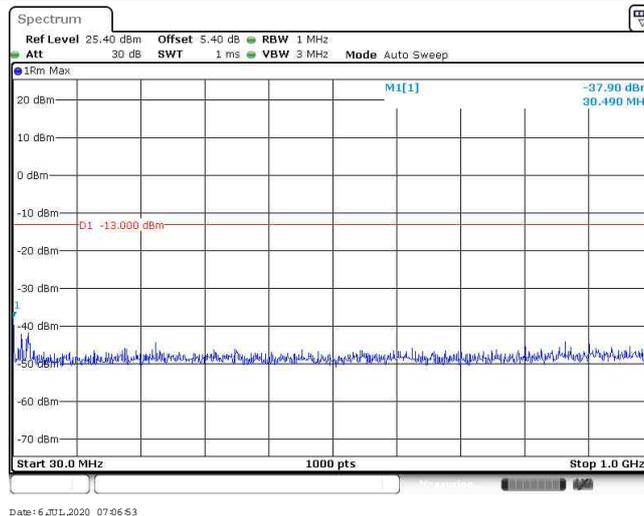
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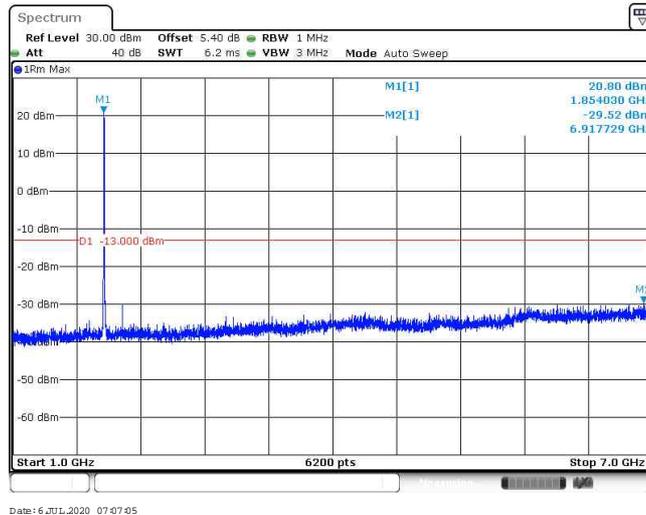
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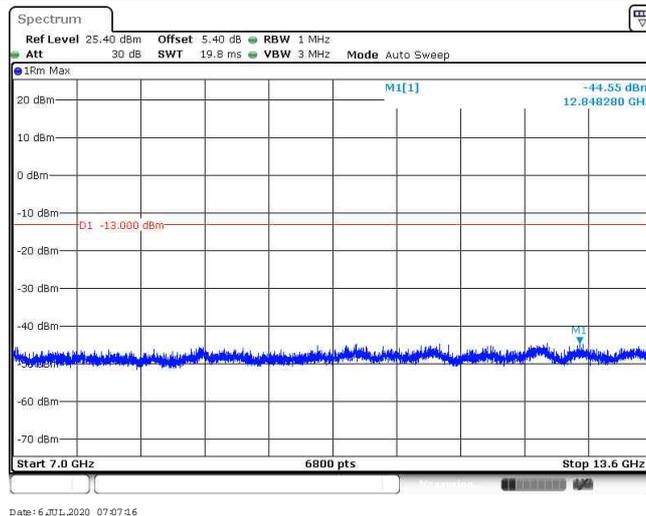
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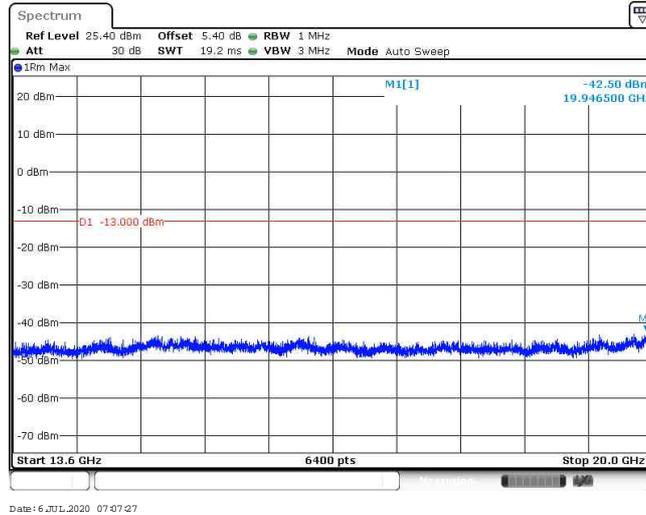
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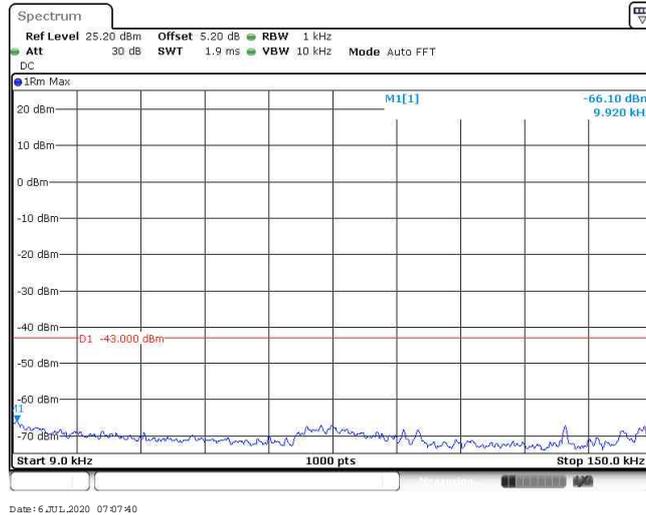
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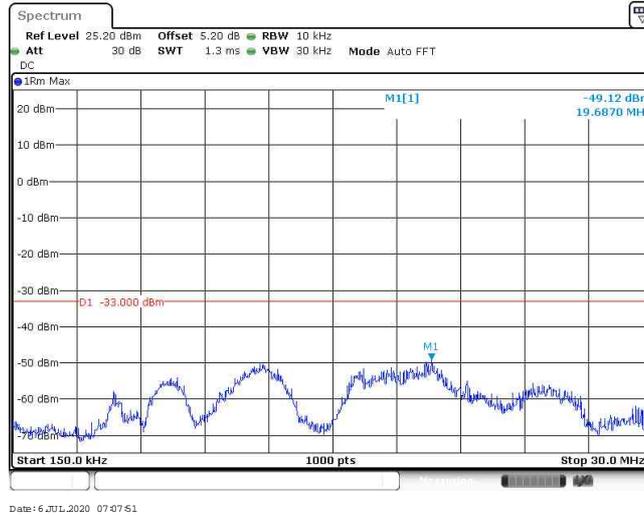
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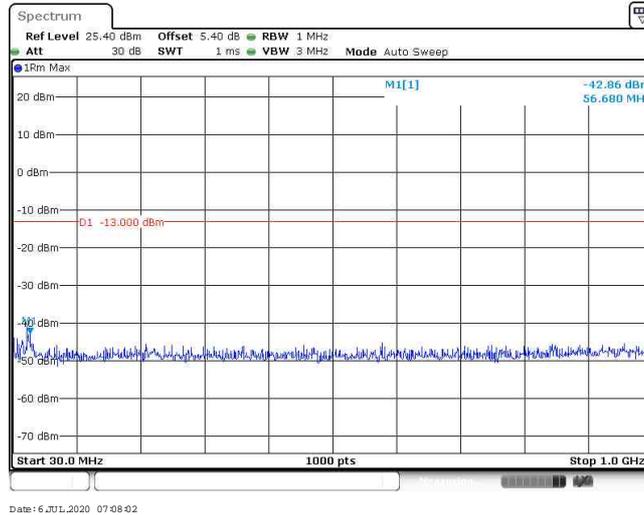
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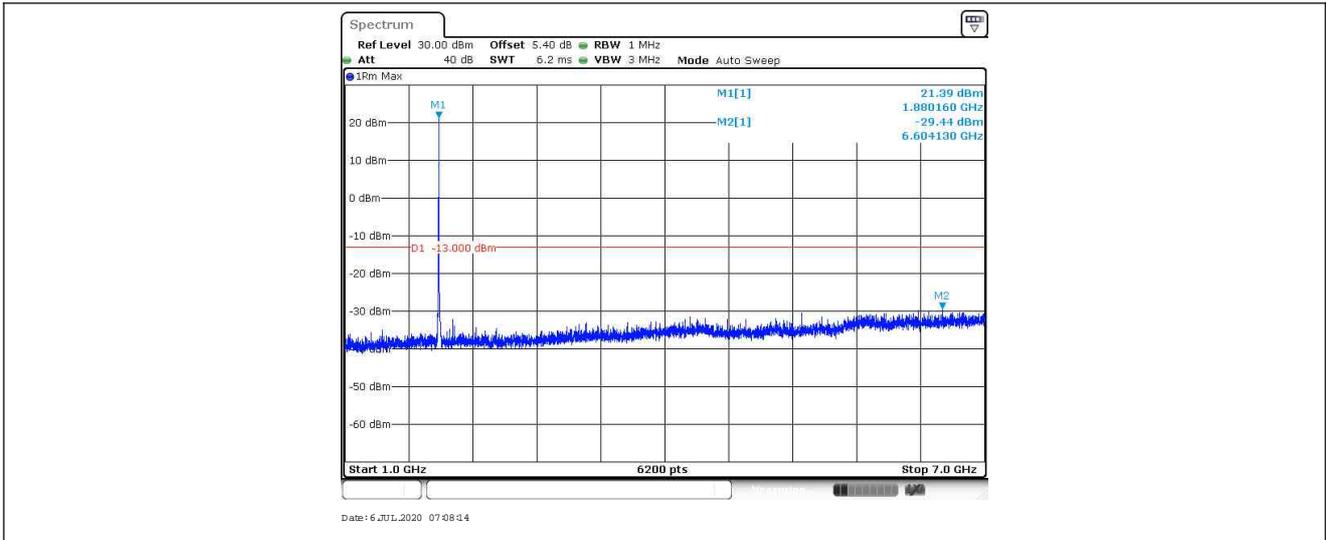
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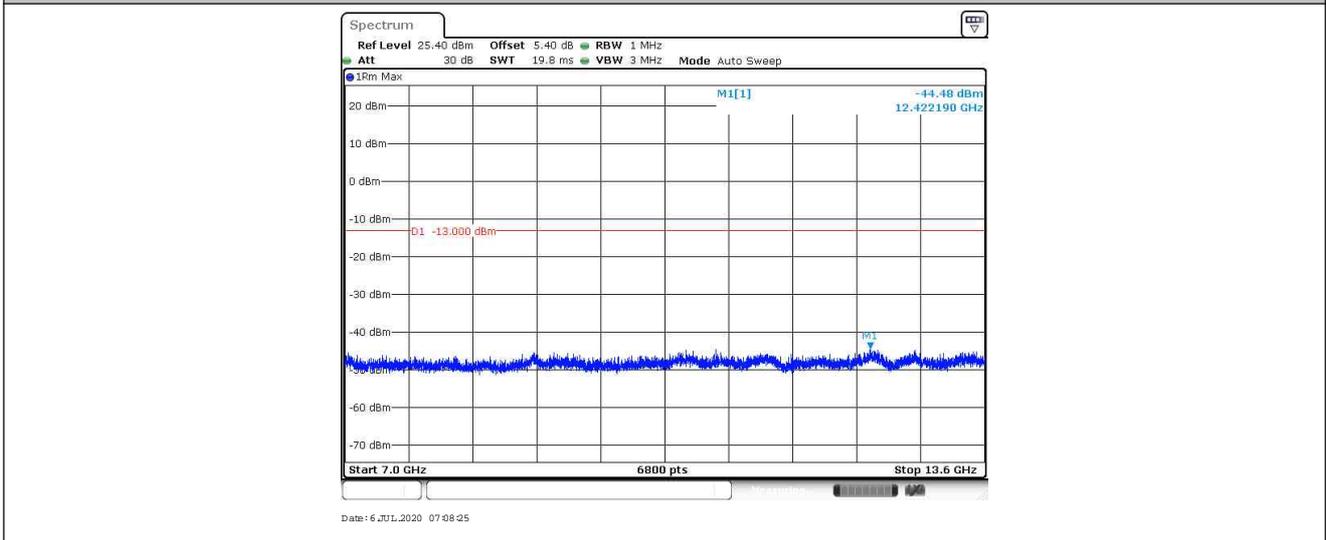
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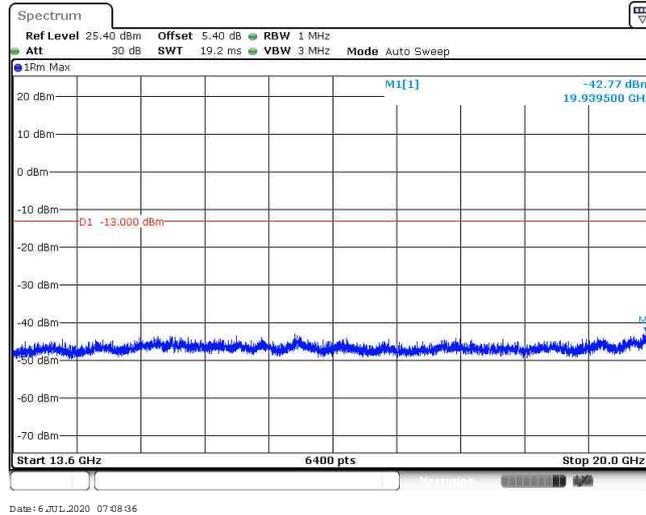
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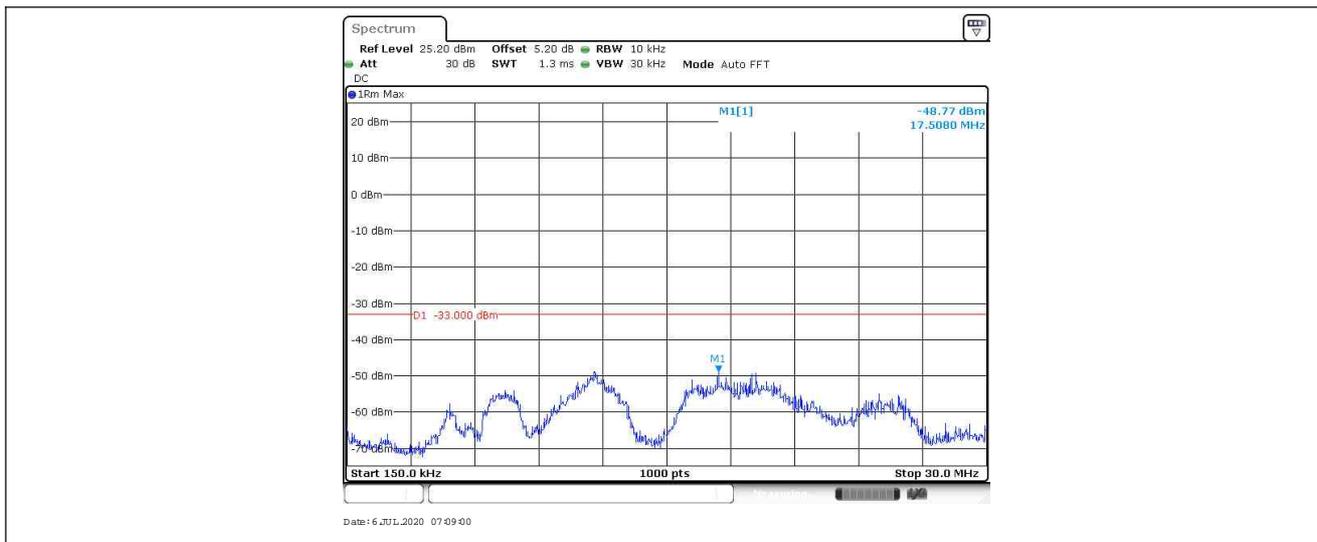
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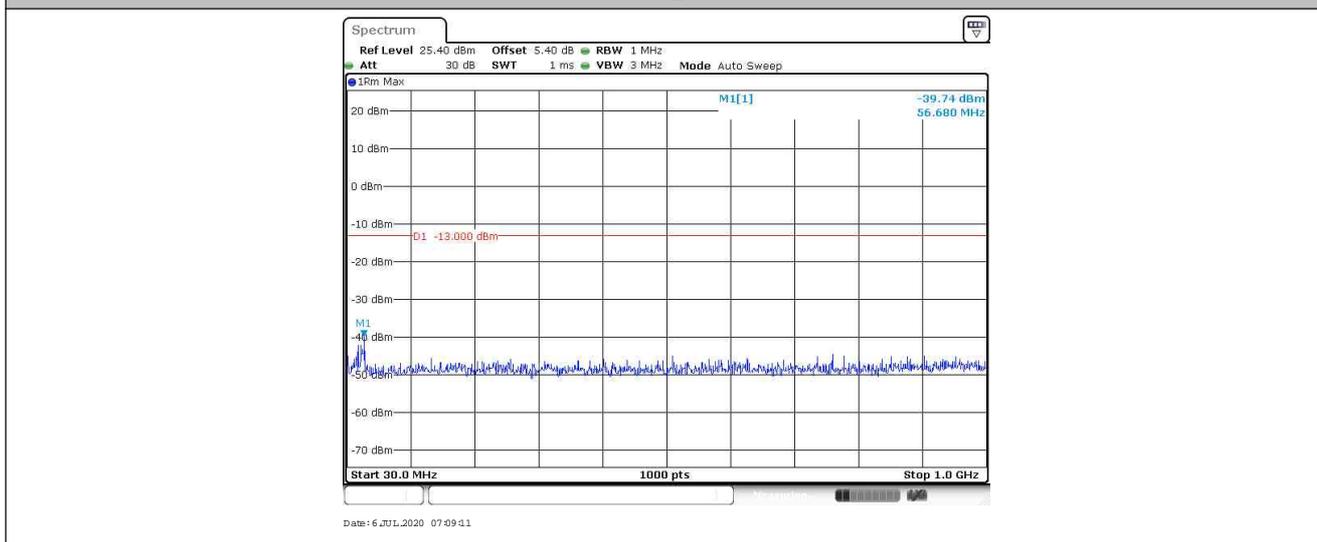
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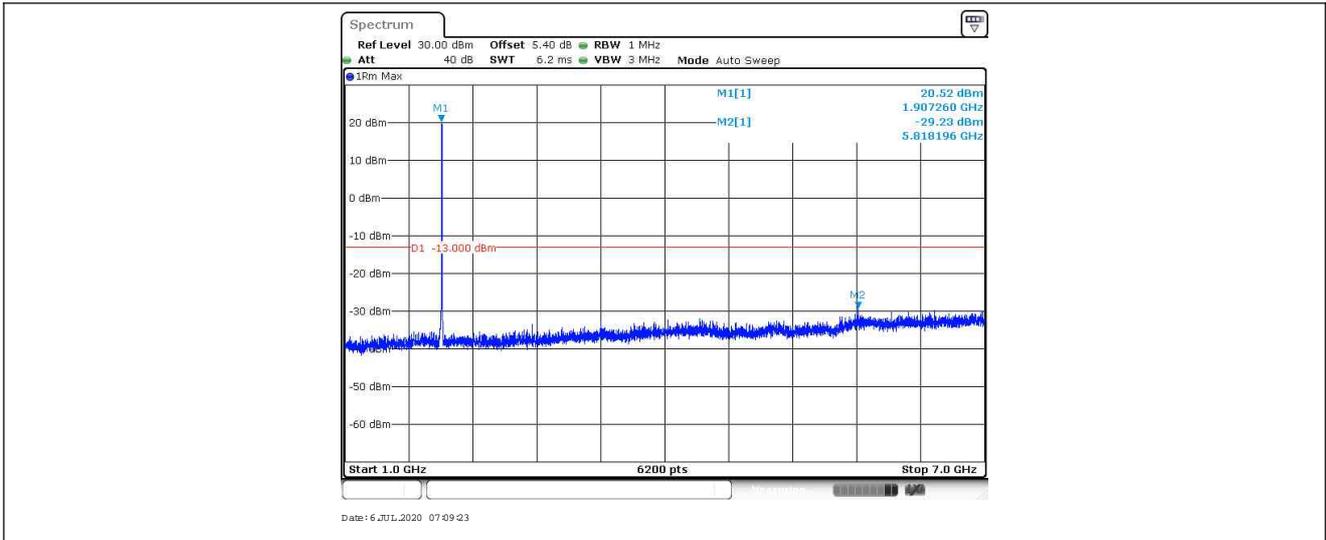
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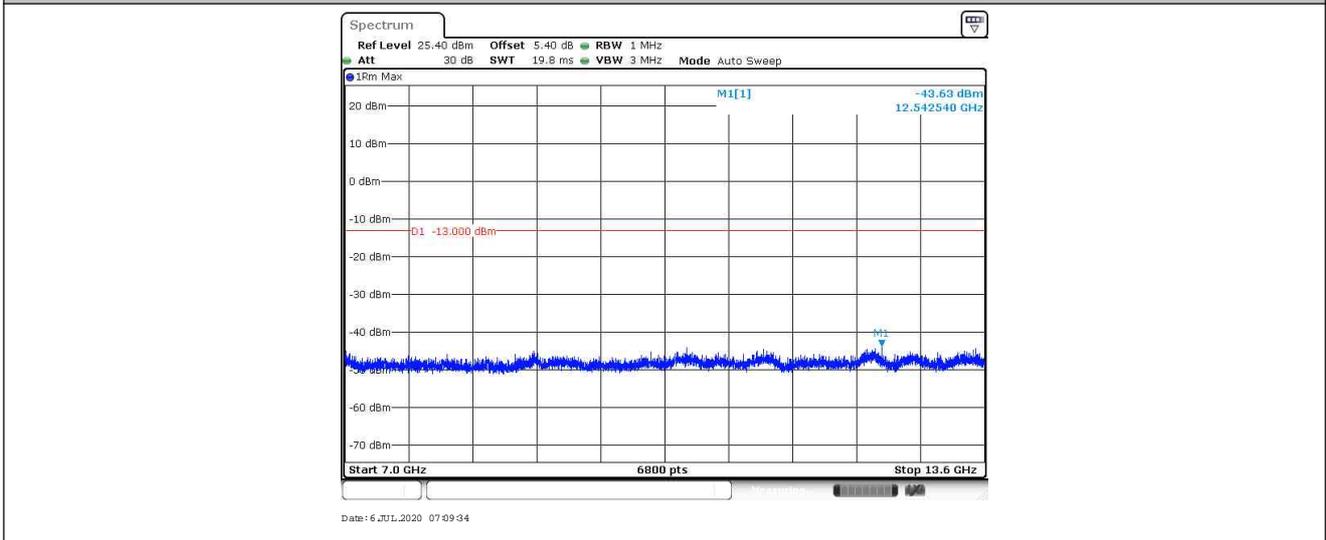
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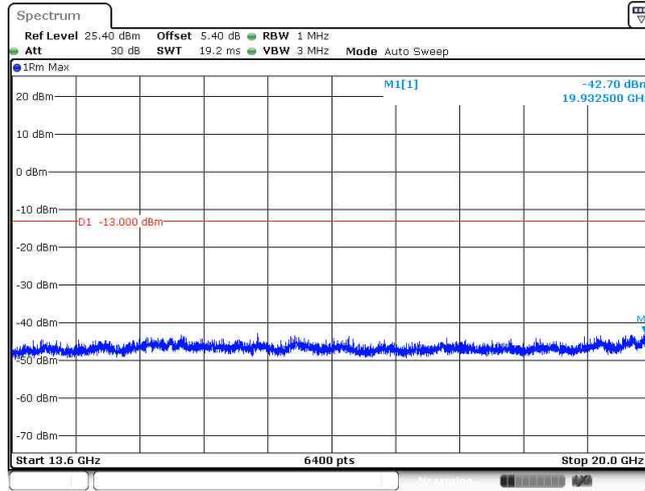
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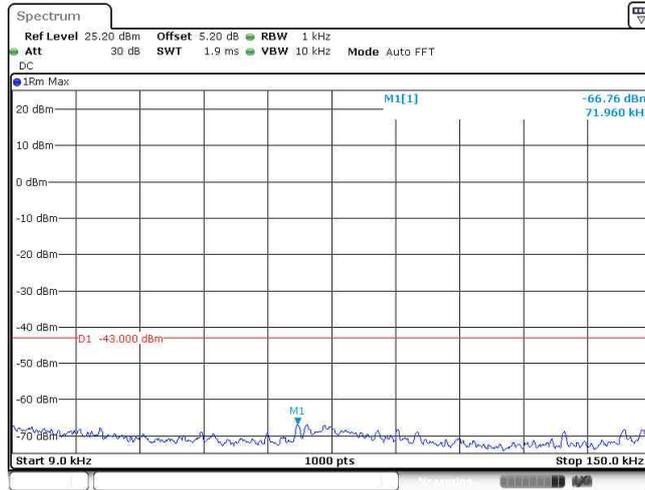
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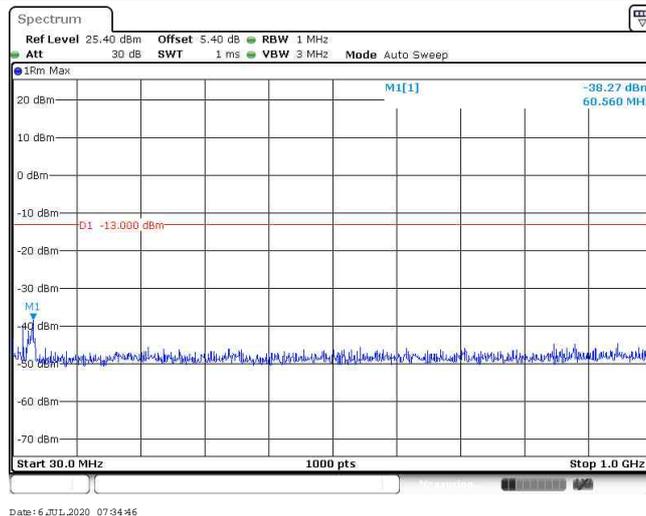
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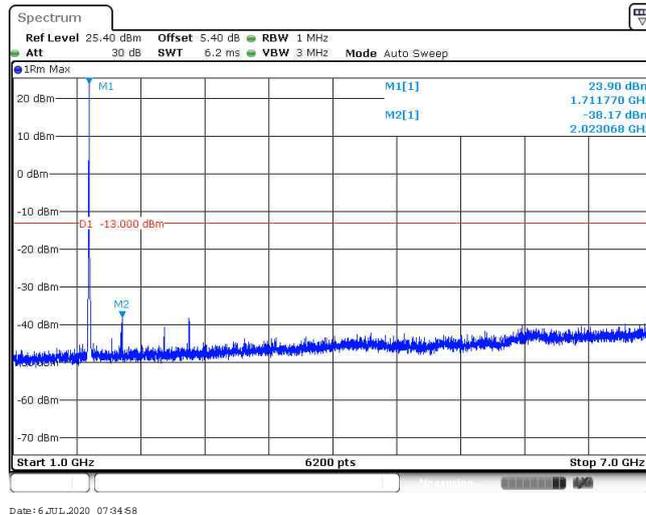
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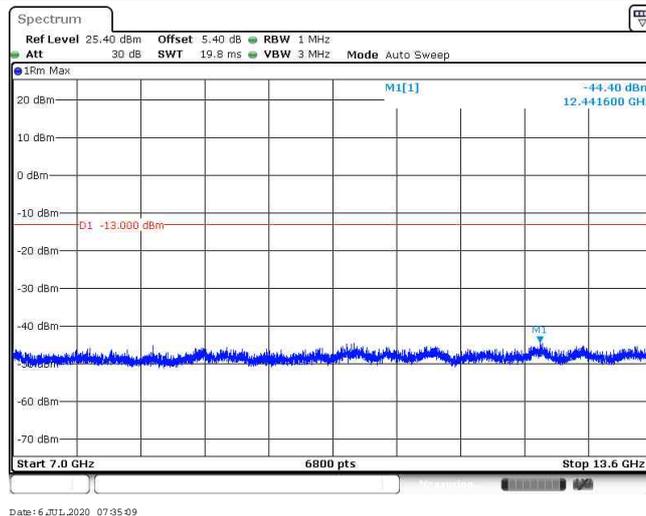
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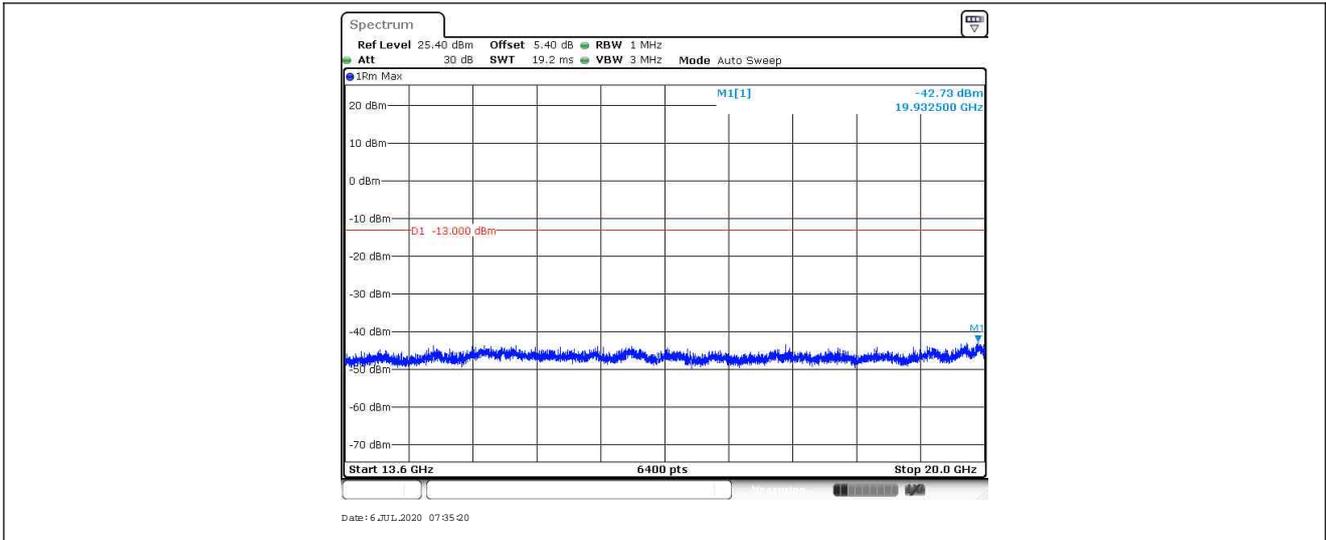
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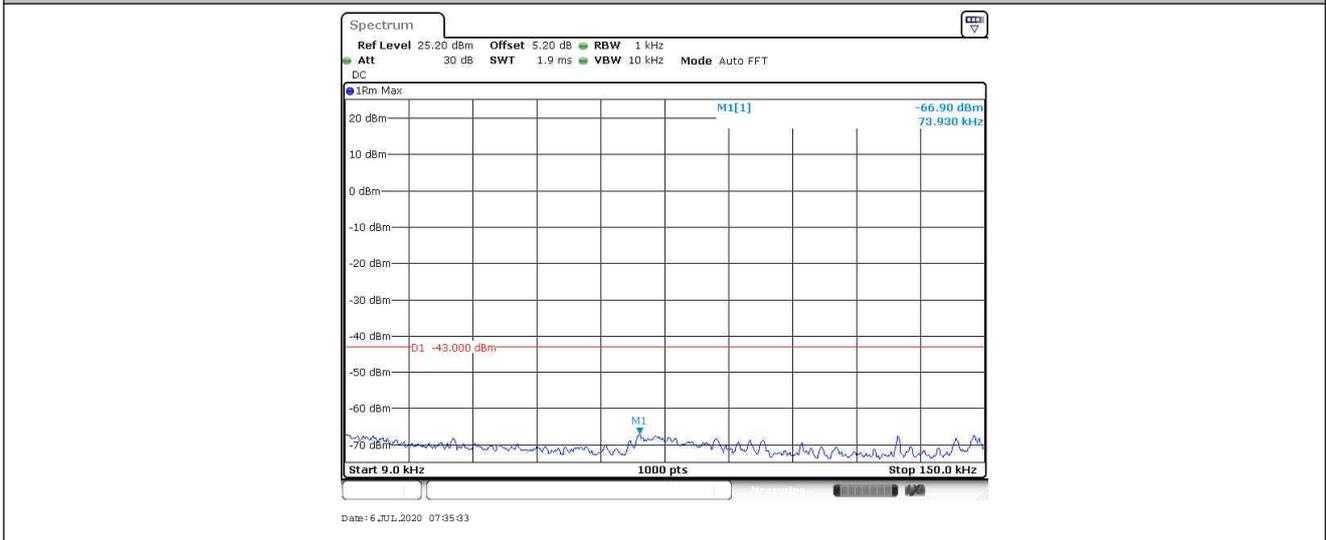
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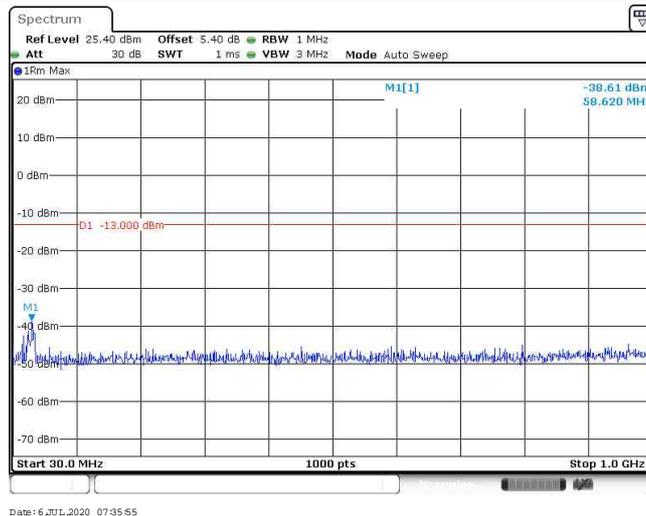
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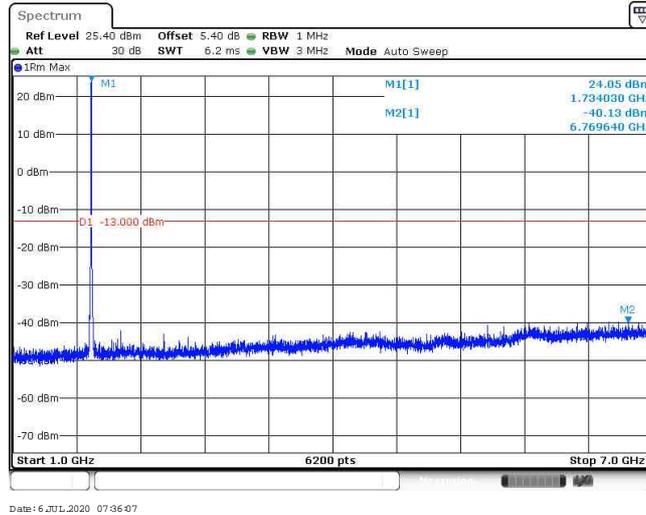
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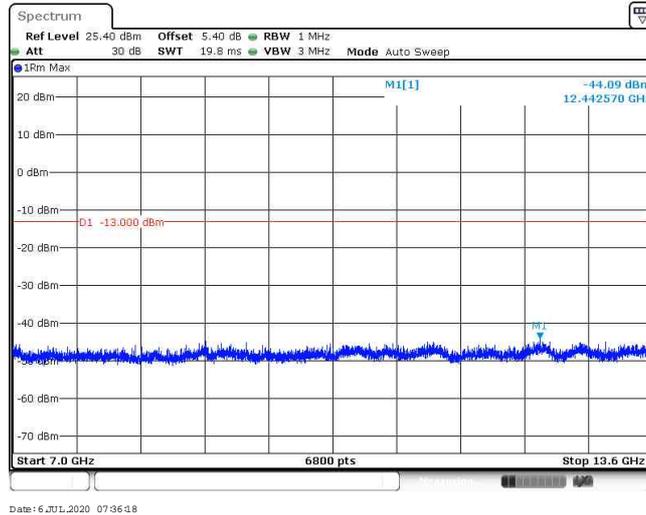
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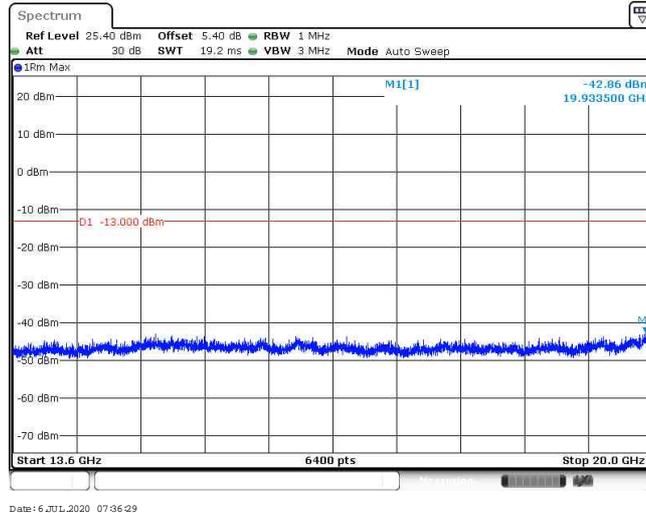
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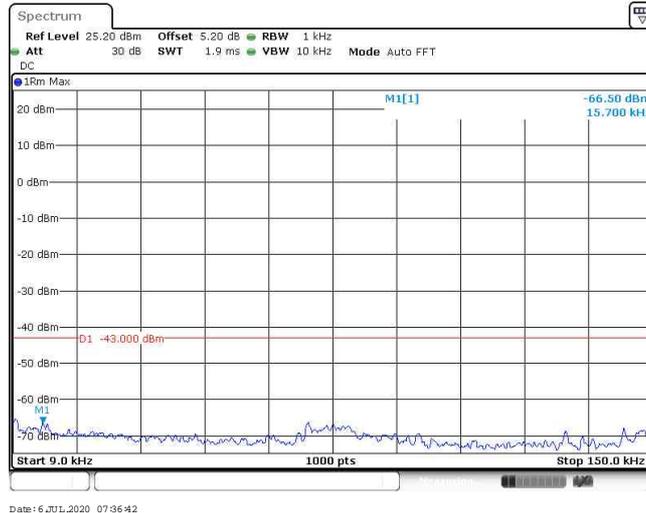
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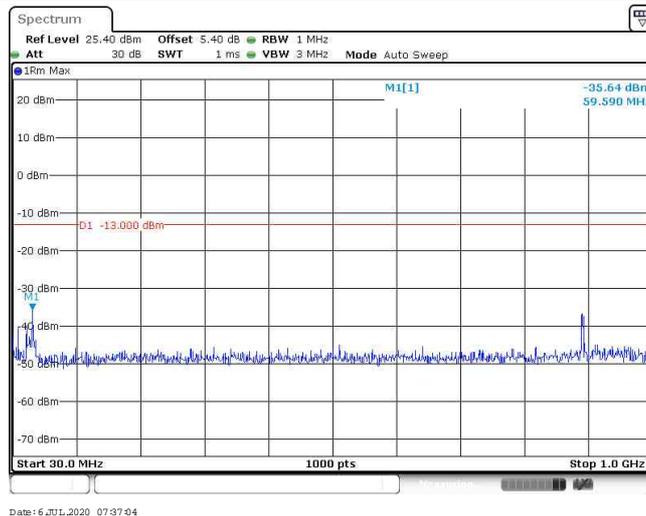
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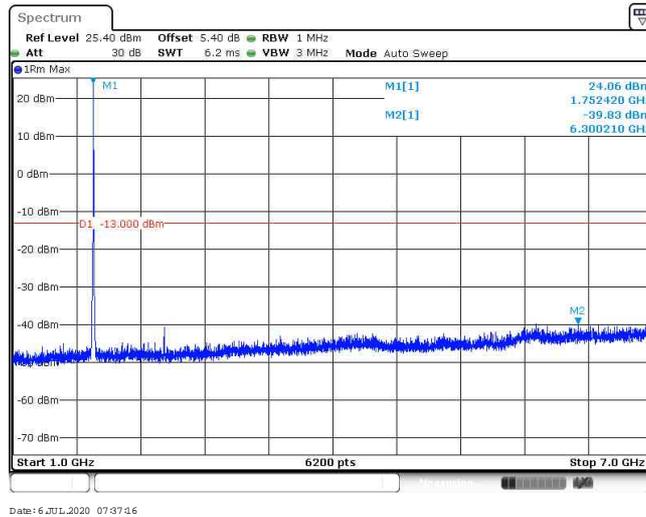
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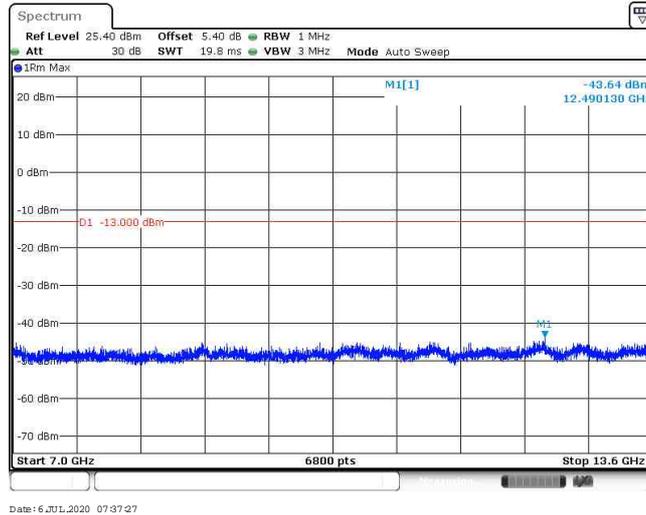
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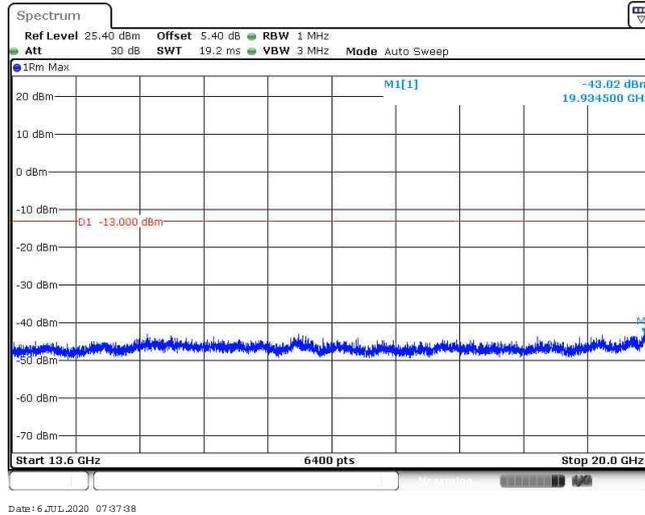
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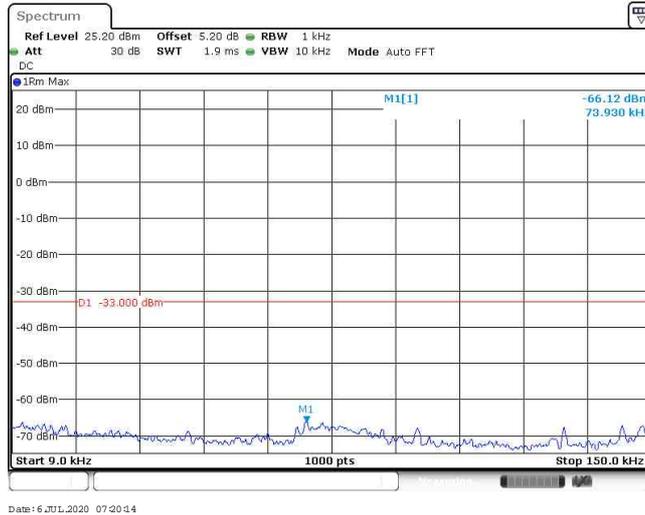
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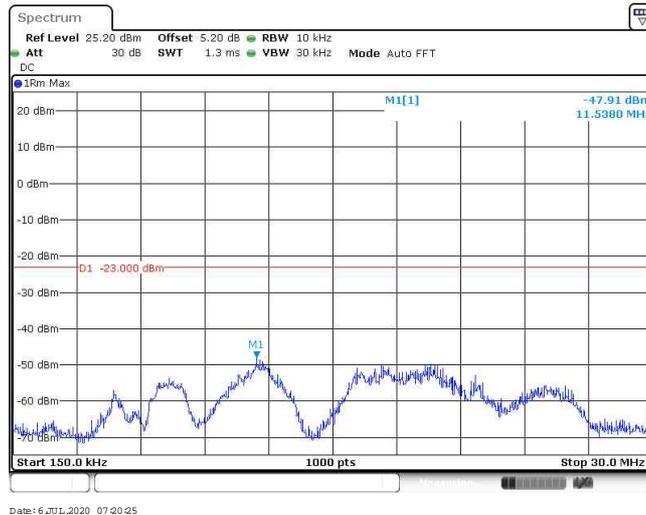
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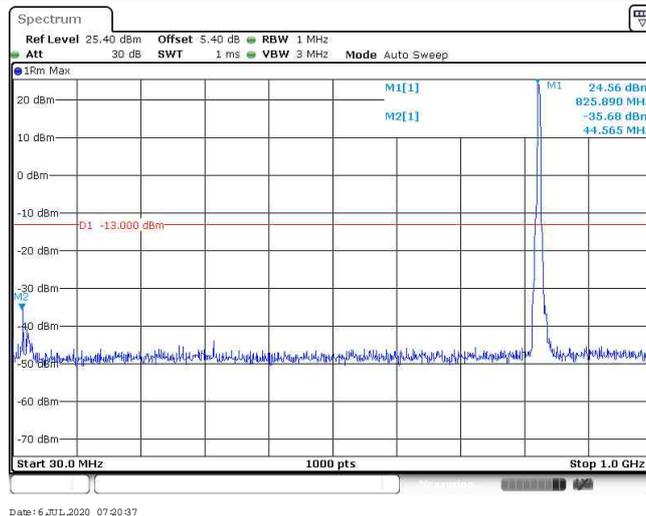
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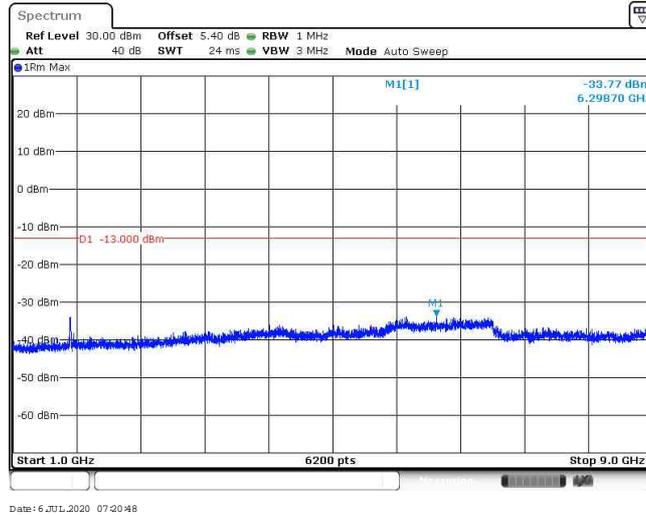
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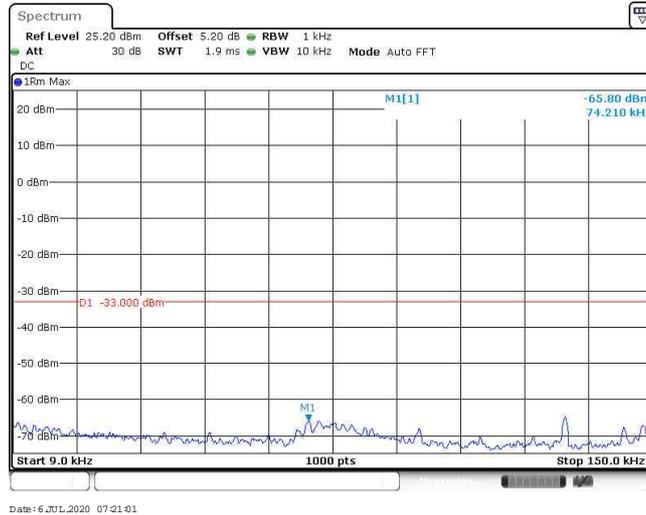
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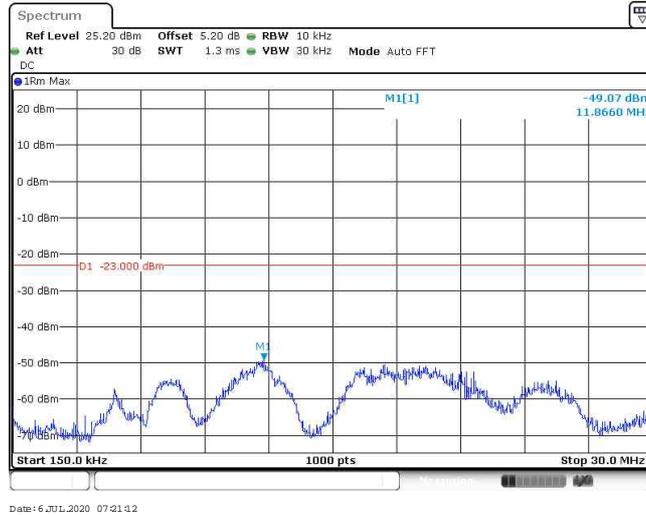
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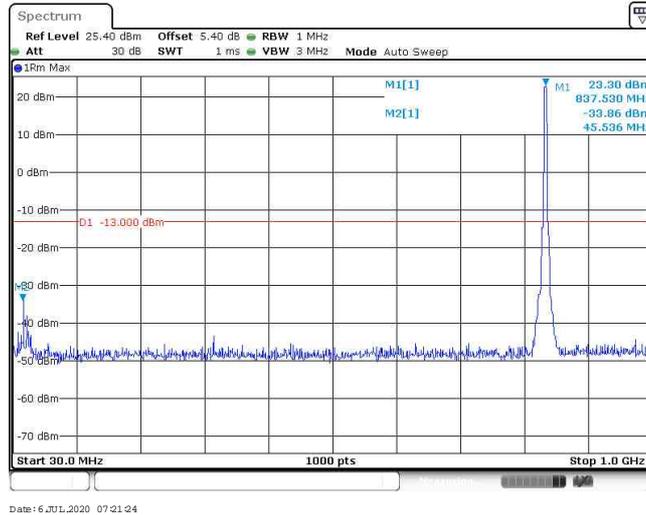
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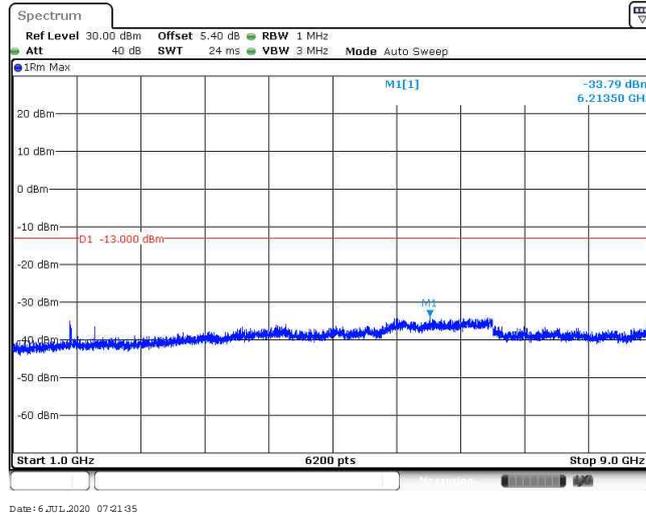
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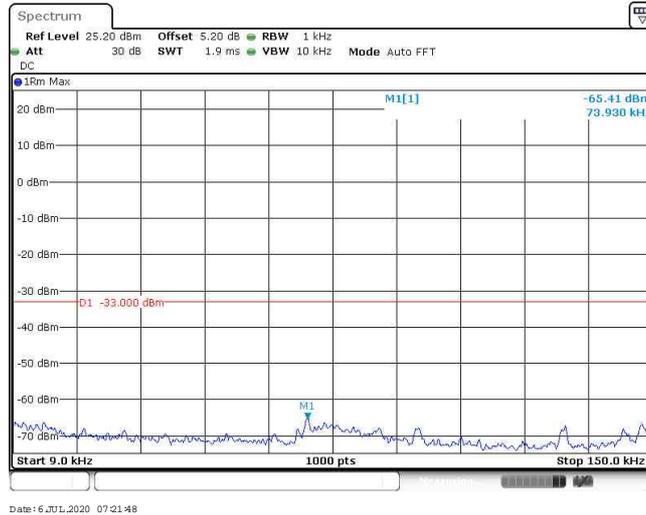
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Band V_4233

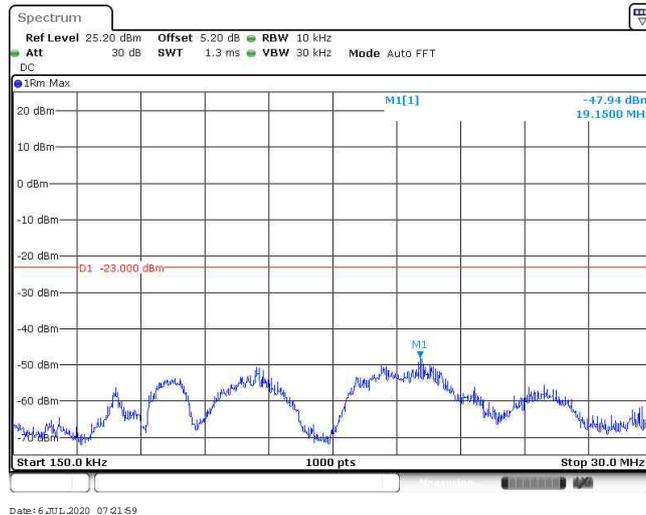
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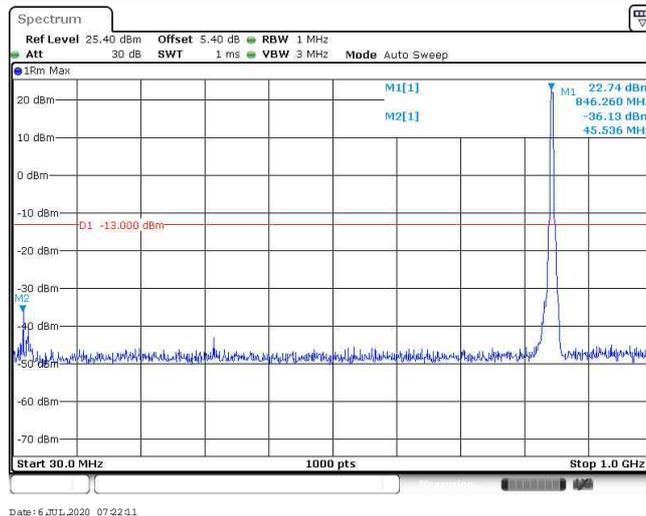
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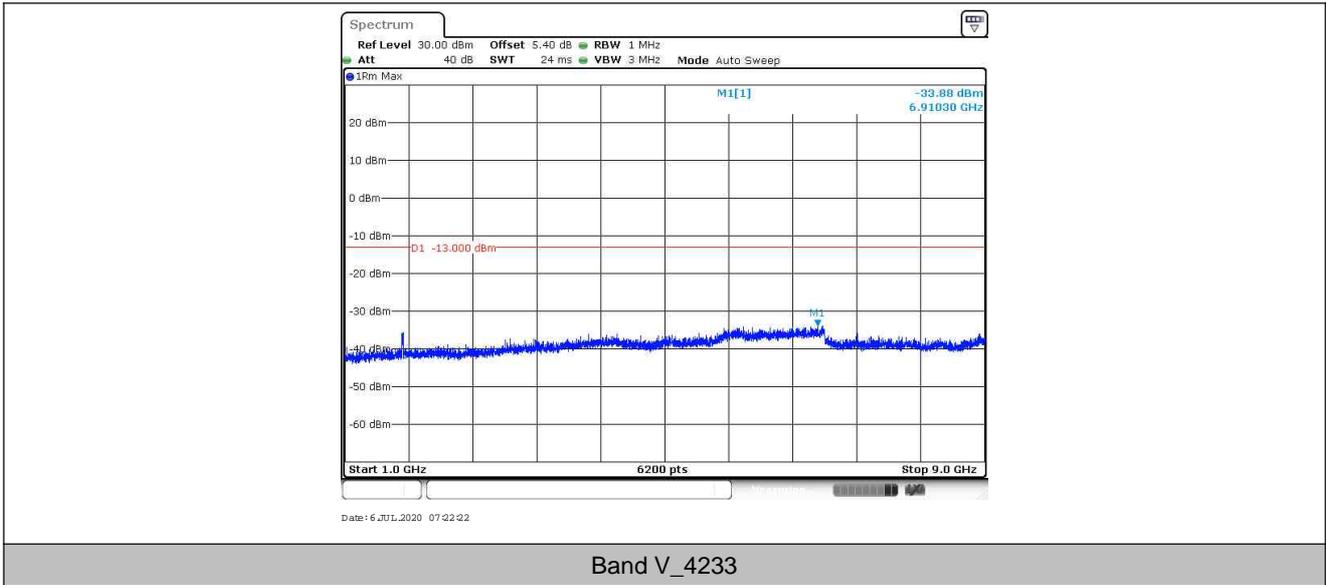
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7. Field Strength of Spurious Radiation

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
110.1260	-64.25	-13.00	51.25	Vertical
607.0334	-63.99	-13.00	50.99	Vertical
2697.1394	-36.63	-13.00	23.63	Vertical
3702.5234	-60.65	-13.00	47.65	Vertical
14460.8820	-46.99	-13.00	33.99	Vertical
17997.9999	-38.96	-13.00	25.96	Vertical
43.6292	-64.42	-13.00	51.42	Horizontal
547.3269	-64.97	-13.00	51.97	Horizontal
2692.3385	-35.54	-13.00	22.54	Horizontal
3706.5236	-59.51	-13.00	46.51	Horizontal
16400.4467	-43.38	-13.00	30.38	Horizontal
17996.4999	-44.50	-13.00	31.50	Horizontal

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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.8721	-64.39	-13.00	51.39	Vertical
671.4931	-63.22	-13.00	50.22	Vertical
2695.5391	-36.58	-13.00	23.58	Vertical
3757.5253	-60.31	-13.00	47.31	Vertical
14702.8901	-47.53	-13.00	34.53	Vertical
17996.9999	-39.50	-13.00	26.50	Vertical
41.8831	-64.79	-13.00	51.79	Horizontal
609.0705	-64.06	-13.00	51.06	Horizontal
2695.1390	-35.30	-13.00	22.30	Horizontal
3758.0253	-57.84	-13.00	44.84	Horizontal
16393.4464	-43.26	-13.00	30.26	Horizontal
17998.5000	-44.54	-13.00	31.54	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.7936	-64.36	-13.00	51.36	Vertical
619.6440	-63.92	-13.00	50.92	Vertical
2699.1398	-36.75	-13.00	23.75	Vertical
3813.5271	-59.59	-13.00	46.59	Vertical
14465.3822	-47.34	-13.00	34.34	Vertical
17999.0000	-39.54	-13.00	26.54	Vertical
41.0586	-64.23	-13.00	51.23	Horizontal
594.3257	-64.29	-13.00	51.29	Horizontal
2698.3397	-35.49	-13.00	22.49	Horizontal
3817.0272	-59.44	-13.00	46.44	Horizontal
16395.9465	-43.08	-13.00	30.08	Horizontal
17998.5000	-43.47	-13.00	30.47	Horizontal

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7.2. Test Band = WCDMA Band IV

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.5811	-62.31	-13.00	49.31	Vertical
608.7794	-61.14	-13.00	48.14	Vertical
2577.5155	-30.24	-13.00	17.24	Vertical
7441.6481	-52.84	-13.00	39.84	Vertical
14716.3905	-41.80	-13.00	28.80	Vertical
17991.4997	-34.17	-13.00	21.17	Vertical
42.4651	-61.87	-13.00	48.87	Horizontal
228.8114	-65.79	-13.00	52.79	Horizontal
538.8389	-61.82	-13.00	48.82	Horizontal
2685.1370	-31.03	-13.00	18.03	Horizontal
7471.1490	-53.45	-13.00	40.45	Horizontal
16409.9470	-35.39	-13.00	22.39	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.9248	-63.39	-13.00	50.39	Vertical
676.6828	-60.44	-13.00	47.44	Vertical
2715.9432	-32.12	-13.00	19.12	Vertical
7446.1482	-53.35	-13.00	40.35	Vertical
14756.3919	-41.59	-13.00	28.59	Vertical
17974.4992	-34.40	-13.00	21.40	Vertical
44.3082	-62.58	-13.00	49.58	Horizontal
591.6581	-61.30	-13.00	48.30	Horizontal
2700.3401	-30.81	-13.00	17.81	Horizontal
9136.2045	-51.70	-13.00	38.70	Horizontal
16398.4466	-35.16	-13.00	22.16	Horizontal
17994.9998	-38.81	-13.00	25.81	Horizontal

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7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.3799	-62.25	-13.00	49.25	Vertical
621.8266	-61.25	-13.00	48.25	Vertical
2690.3381	-32.07	-13.00	19.07	Vertical
7419.1473	-53.07	-13.00	40.07	Vertical
14464.3821	-42.58	-13.00	29.58	Vertical
17983.4995	-33.27	-13.00	20.27	Vertical
41.2526	-62.29	-13.00	49.29	Horizontal
613.9207	-61.59	-13.00	48.59	Horizontal
2698.7397	-30.74	-13.00	17.74	Horizontal
7462.1487	-52.64	-13.00	39.64	Horizontal
16366.9456	-36.27	-13.00	23.27	Horizontal
17998.5000	-38.61	-13.00	25.61	Horizontal

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邮编 710086 sgs.china@sgs.com

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
47.3639	-72.03	-13.00	59.03	Vertical
116.7708	-64.49	-13.00	51.49	Vertical
380.7695	-67.87	-13.00	54.87	Vertical
1654.5309	-59.30	-13.00	46.30	Vertical
2697.1394	-51.95	-13.00	38.95	Vertical
14367.8789	-46.95	-13.00	33.95	Vertical
42.0286	-13.00	49.89	6.87	Horizontal
99.0675	-13.00	61.92	-4.66	Horizontal
235.0198	-13.00	55.17	2.81	Horizontal
1654.5309	-13.00	37.98	4.00	Horizontal
2682.7365	-13.00	37.78	12.44	Horizontal
7456.6486	-13.00	42.85	-0.03	Horizontal

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Xi'an, Shaanxi, China

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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.9488	-72.33	-13.00	59.33	Vertical
112.7936	-65.28	-13.00	52.28	Vertical
293.7562	-69.06	-13.00	56.06	Vertical
1749.3499	-58.17	-13.00	45.17	Vertical
2592.7185	-52.27	-13.00	39.27	Vertical
14501.8834	-47.00	-13.00	34.00	Vertical
45.1328	-63.92	-13.00	50.92	Horizontal
97.9519	-75.11	-13.00	62.11	Horizontal
249.1340	-67.89	-13.00	54.89	Horizontal
1670.5341	-56.37	-13.00	43.37	Horizontal
2693.1386	-50.71	-13.00	37.71	Horizontal
16403.4468	-43.12	-13.00	30.12	Horizontal

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7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.7818	-72.44	-13.00	59.44	Vertical
108.2829	-65.04	-13.00	52.04	Vertical
384.4072	-68.07	-13.00	55.07	Vertical
1699.7399	-59.74	-13.00	46.74	Vertical
2401.8804	-53.55	-13.00	40.55	Vertical
14495.3832	-47.31	-13.00	34.31	Vertical
41.1071	-64.09	-13.00	51.09	Horizontal
98.8249	-75.32	-13.00	62.32	Horizontal
227.1624	-67.93	-13.00	54.93	Horizontal
1691.3383	-59.49	-13.00	46.49	Horizontal
2480.2961	-50.35	-13.00	37.35	Horizontal
7363.1454	-55.61	-13.00	42.61	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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Xi'an, Shaanxi, China

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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
Band II	9262	VL	TN	3.56	0.001922	±2.5	PASS
Band II	9262	VN	TN	-8.44	-0.004554	±2.5	PASS
Band II	9262	VH	TN	-0.02	-0.000012	±2.5	PASS
Band II	9400	VL	TN	-14.44	-0.007681	±2.5	PASS
Band II	9400	VN	TN	-0.58	-0.000310	±2.5	PASS
Band II	9400	VH	TN	10.03	0.005338	±2.5	PASS
Band II	9538	VL	TN	-11.53	-0.006042	±2.5	PASS
Band II	9538	VN	TN	-7.12	-0.003732	±2.5	PASS
Band II	9538	VH	TN	-12.92	-0.006772	±2.5	PASS
Band IV	1312	VL	TN	-12.33	-0.007203	±2.5	PASS
Band IV	1312	VN	TN	8.60	0.005021	±2.5	PASS
Band IV	1312	VH	TN	10.05	0.005867	±2.5	PASS
Band IV	1413	VL	TN	10.53	0.006077	±2.5	PASS
Band IV	1413	VN	TN	-10.71	-0.006180	±2.5	PASS
Band IV	1413	VH	TN	-8.36	-0.004827	±2.5	PASS
Band IV	1513	VL	TN	0.09	0.000052	±2.5	PASS
Band IV	1513	VN	TN	-3.38	-0.001929	±2.5	PASS
Band IV	1513	VH	TN	-5.06	-0.002885	±2.5	PASS
Band V	4132	VL	TN	9.84	0.011905	±2.5	PASS
Band V	4132	VN	TN	-5.21	-0.006301	±2.5	PASS
Band V	4132	VH	TN	-7.63	-0.009237	±2.5	PASS
Band V	4182	VL	TN	0.40	0.000478	±2.5	PASS
Band V	4182	VN	TN	-1.05	-0.001259	±2.5	PASS
Band V	4182	VH	TN	-14.01	-0.016752	±2.5	PASS
Band V	4233	VL	TN	-3.64	-0.004298	±2.5	PASS
Band V	4233	VN	TN	-11.44	-0.013516	±2.5	PASS

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Xi'an, Shaanxi, China

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Band V	4233	VH	TN	-6.26	-0.007395	±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	2.36	0.001274	±2.5	PASS
Band II	9262	VN	-20	8.57	0.004626	±2.5	PASS
Band II	9262	VN	-10	-4.70	-0.002535	±2.5	PASS
Band II	9262	VN	0	10.48	0.005657	±2.5	PASS
Band II	9262	VN	10	-8.69	-0.004694	±2.5	PASS
Band II	9262	VN	20	-2.15	-0.001160	±2.5	PASS
Band II	9262	VN	30	-4.85	-0.002617	±2.5	PASS
Band II	9262	VN	40	-11.40	-0.006152	±2.5	PASS
Band II	9262	VN	50	-1.86	-0.001003	±2.5	PASS
Band II	9400	VN	-30	1.02	0.000542	±2.5	PASS
Band II	9400	VN	-20	13.48	0.007168	±2.5	PASS
Band II	9400	VN	-10	6.25	0.003323	±2.5	PASS
Band II	9400	VN	0	0.55	0.000292	±2.5	PASS
Band II	9400	VN	10	-13.47	-0.007167	±2.5	PASS
Band II	9400	VN	20	-5.27	-0.002805	±2.5	PASS
Band II	9400	VN	30	10.29	0.005476	±2.5	PASS
Band II	9400	VN	40	-12.26	-0.006520	±2.5	PASS
Band II	9400	VN	50	6.50	0.003459	±2.5	PASS
Band II	9538	VN	-30	5.74	0.003011	±2.5	PASS
Band II	9538	VN	-20	-7.43	-0.003897	±2.5	PASS
Band II	9538	VN	-10	-6.54	-0.003430	±2.5	PASS
Band II	9538	VN	0	13.75	0.007210	±2.5	PASS
Band II	9538	VN	10	11.01	0.005773	±2.5	PASS
Band II	9538	VN	20	9.73	0.005100	±2.5	PASS
Band II	9538	VN	30	-9.69	-0.005078	±2.5	PASS
Band II	9538	VN	40	12.65	0.006632	±2.5	PASS
Band II	9538	VN	50	-9.57	-0.005018	±2.5	PASS

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Band IV	1312	VN	-30	11.98	0.006998	±2.5	PASS
Band IV	1312	VN	-20	-1.28	-0.000750	±2.5	PASS
Band IV	1312	VN	-10	13.07	0.007633	±2.5	PASS
Band IV	1312	VN	0	13.79	0.008053	±2.5	PASS
Band IV	1312	VN	10	-6.92	-0.004039	±2.5	PASS
Band IV	1312	VN	20	1.68	0.000983	±2.5	PASS
Band IV	1312	VN	30	6.19	0.003613	±2.5	PASS
Band IV	1312	VN	40	6.18	0.003608	±2.5	PASS
Band IV	1312	VN	50	-0.42	-0.000248	±2.5	PASS
Band IV	1413	VN	-30	-1.05	-0.000605	±2.5	PASS
Band IV	1413	VN	-20	1.37	0.000791	±2.5	PASS
Band IV	1413	VN	-10	-11.90	-0.006869	±2.5	PASS
Band IV	1413	VN	0	7.54	0.004353	±2.5	PASS
Band IV	1413	VN	10	-9.49	-0.005477	±2.5	PASS
Band IV	1413	VN	20	8.59	0.004957	±2.5	PASS
Band IV	1413	VN	30	-4.26	-0.002461	±2.5	PASS
Band IV	1413	VN	40	5.80	0.003346	±2.5	PASS
Band IV	1413	VN	50	-1.67	-0.000964	±2.5	PASS
Band IV	1513	VN	-30	-7.60	-0.004335	±2.5	PASS
Band IV	1513	VN	-20	-12.72	-0.007256	±2.5	PASS
Band IV	1513	VN	-10	-13.45	-0.007675	±2.5	PASS
Band IV	1513	VN	0	-5.89	-0.003361	±2.5	PASS
Band IV	1513	VN	10	7.47	0.004263	±2.5	PASS
Band IV	1513	VN	20	14.06	0.008024	±2.5	PASS
Band IV	1513	VN	30	4.73	0.002696	±2.5	PASS
Band IV	1513	VN	40	10.90	0.006217	±2.5	PASS
Band IV	1513	VN	50	5.00	0.002851	±2.5	PASS
Band V	4132	VN	-30	-13.74	-0.016623	±2.5	PASS
Band V	4132	VN	-20	-8.69	-0.010521	±2.5	PASS
Band V	4132	VN	-10	8.33	0.010074	±2.5	PASS
Band V	4132	VN	0	10.46	0.012659	±2.5	PASS
Band V	4132	VN	10	11.97	0.014488	±2.5	PASS
Band V	4132	VN	20	-11.62	-0.014065	±2.5	PASS
Band V	4132	VN	30	-10.10	-0.012216	±2.5	PASS

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Band V	4132	VN	40	3.16	0.003827	±2.5	PASS
Band V	4132	VN	50	-10.61	-0.012833	±2.5	PASS
Band V	4182	VN	-30	10.82	0.012938	±2.5	PASS
Band V	4182	VN	-20	6.35	0.007587	±2.5	PASS
Band V	4182	VN	-10	4.03	0.004814	±2.5	PASS
Band V	4182	VN	0	14.74	0.017625	±2.5	PASS
Band V	4182	VN	10	13.66	0.016337	±2.5	PASS
Band V	4182	VN	20	-6.42	-0.007670	±2.5	PASS
Band V	4182	VN	30	-12.07	-0.014426	±2.5	PASS
Band V	4182	VN	40	-8.41	-0.010050	±2.5	PASS
Band V	4182	VN	50	4.47	0.005339	±2.5	PASS
Band V	4233	VN	-30	-7.68	-0.009068	±2.5	PASS
Band V	4233	VN	-20	-11.54	-0.013636	±2.5	PASS
Band V	4233	VN	-10	11.42	0.013494	±2.5	PASS
Band V	4233	VN	0	-4.08	-0.004819	±2.5	PASS
Band V	4233	VN	10	12.47	0.014725	±2.5	PASS
Band V	4233	VN	20	-7.46	-0.008816	±2.5	PASS
Band V	4233	VN	30	-4.45	-0.005261	±2.5	PASS
Band V	4233	VN	40	6.97	0.008228	±2.5	PASS
Band V	4233	VN	50	1.84	0.002169	±2.5	PASS

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