

Appendix B

WCDMA Band II & 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	17.08	33.00	PASS
Band II	9400	23.12	17.12	33.00	PASS
Band II	9538	23.21	17.21	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.02	14.87	38.45	PASS
Band V	4182	24.00	14.85	38.45	PASS
Band V	4233	24.05	14.9	38.45	PASS

Remark:

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

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

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



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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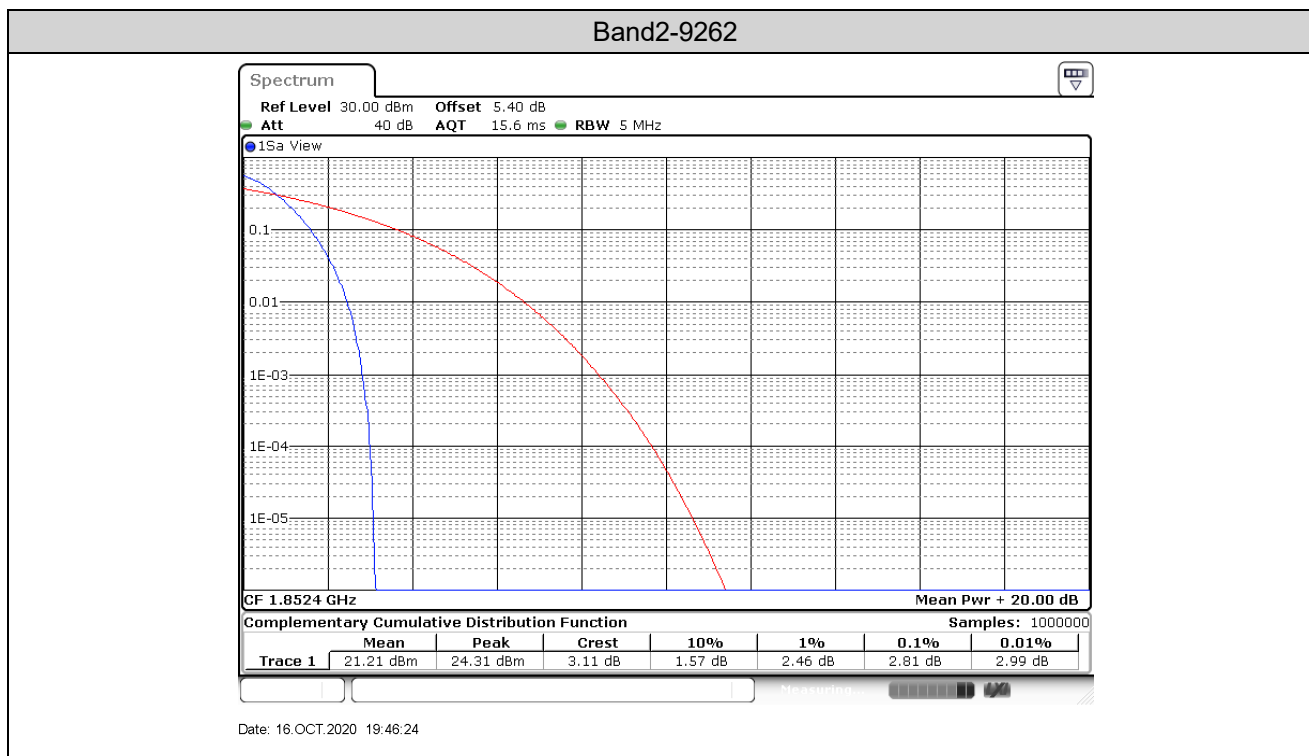
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2. Peak-to-Average Ratio(CCDF)

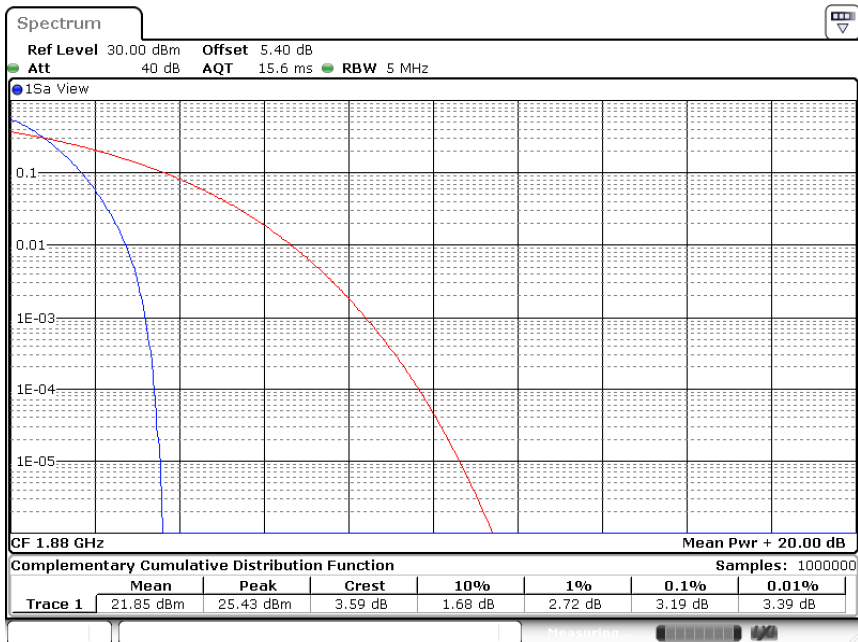
2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.81	13	PASS
Band2	9400	3.19	13	PASS
Band2	9538	2.99	13	PASS
Band5	4132	2.7	13	PASS
Band5	4182	3.42	13	PASS
Band5	4233	2.72	13	PASS

2.2. Test Plots

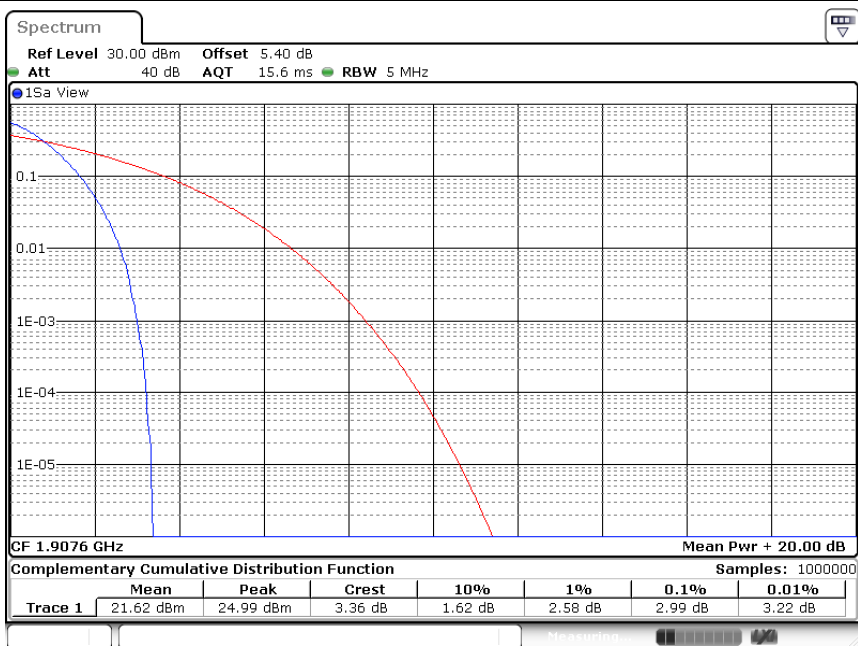


Band2-9400



Date: 16.OCT.2020 19:46:36

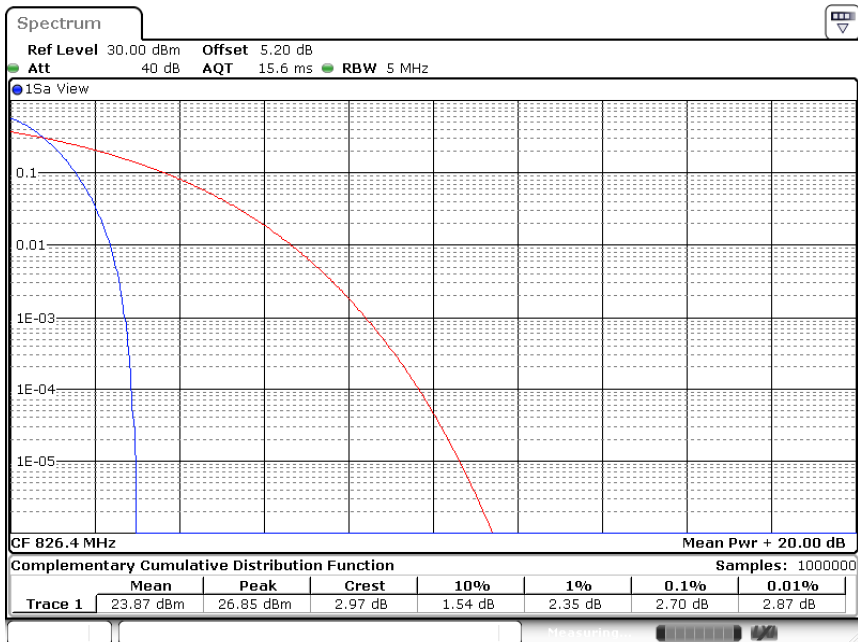
Band2-9538



Date: 16.OCT.2020 19:46:49

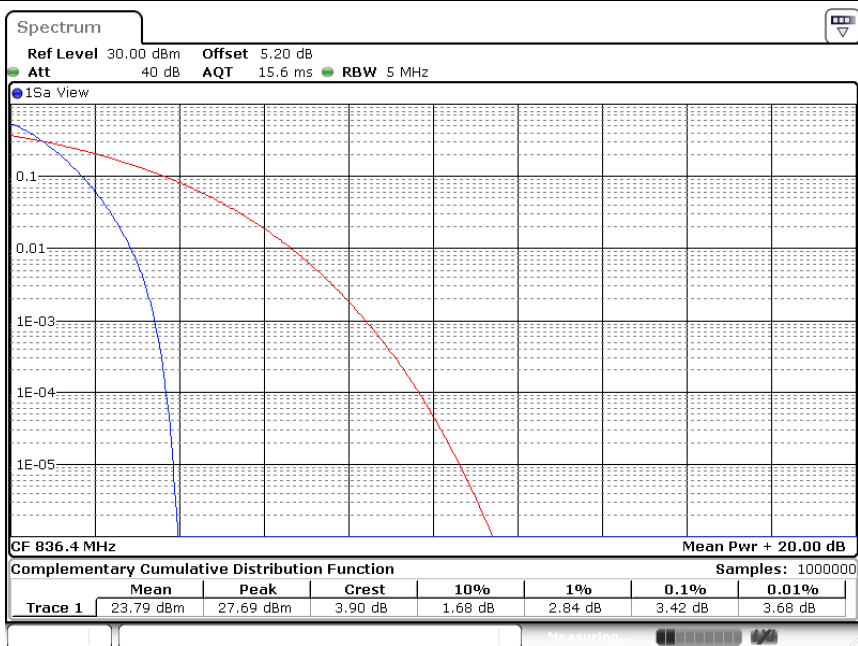


Band5-4132



Date: 16.OCT.2020 20:03:27

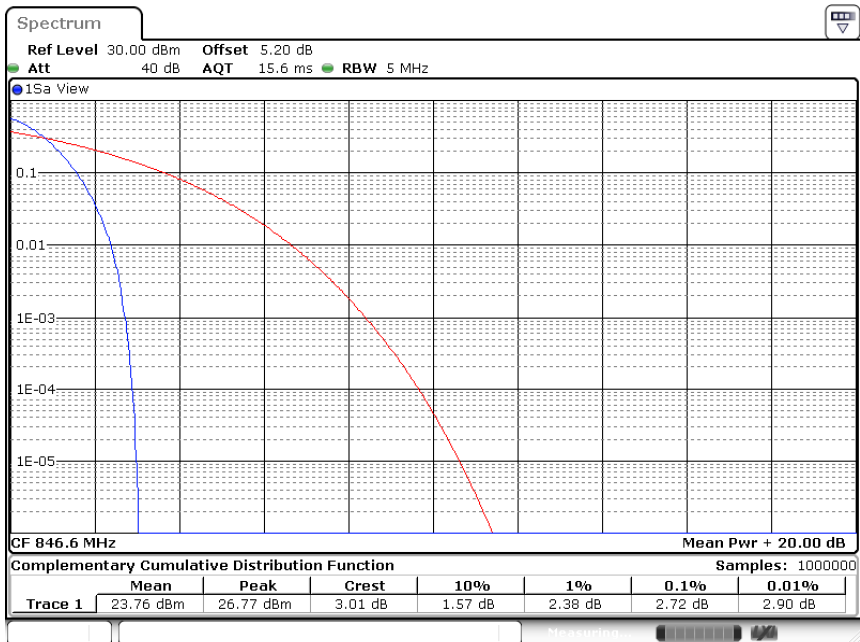
Band5-4182



Date: 16.OCT.2020 20:03:40



Band5-4233



Date: 16.OCT.2020 20:03:52

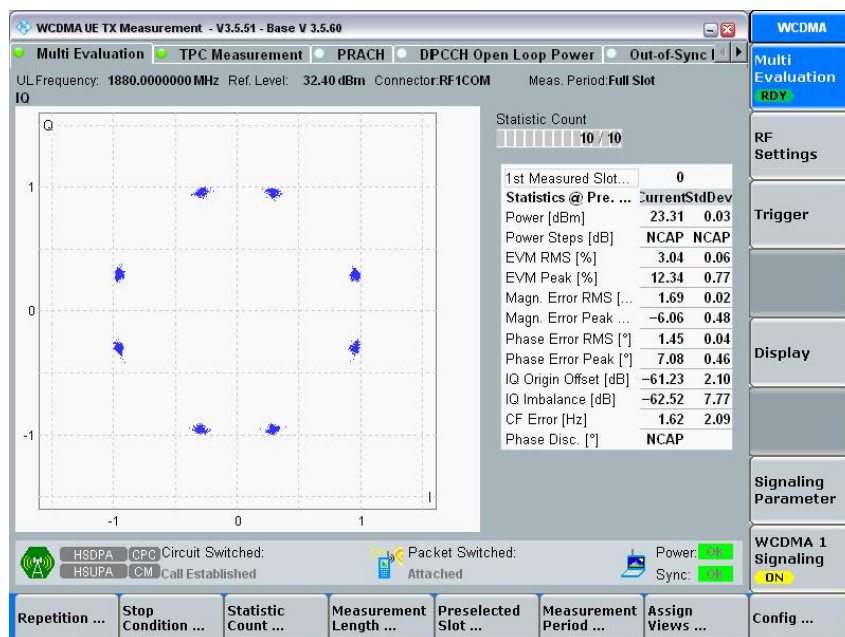


3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

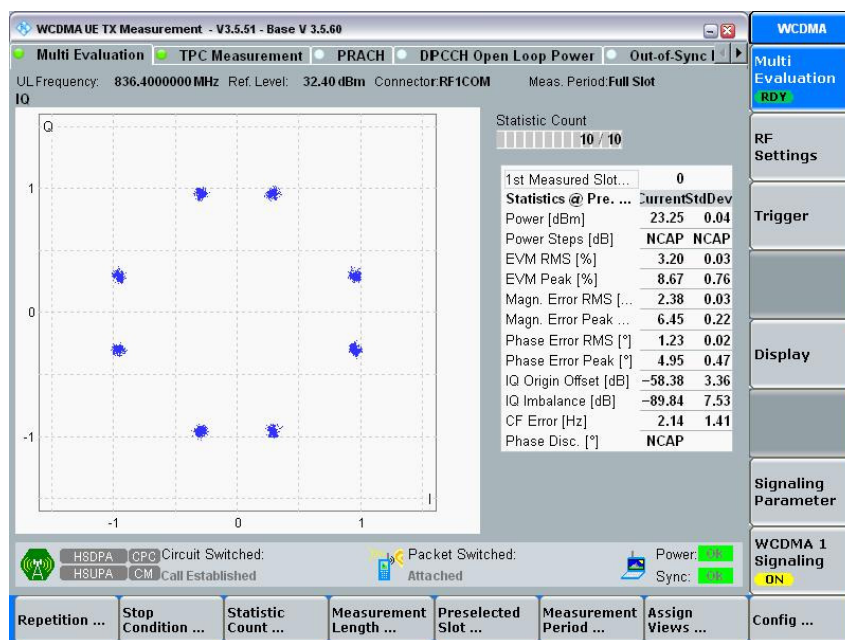
3.1.1.1. Test Channel = MCH



3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



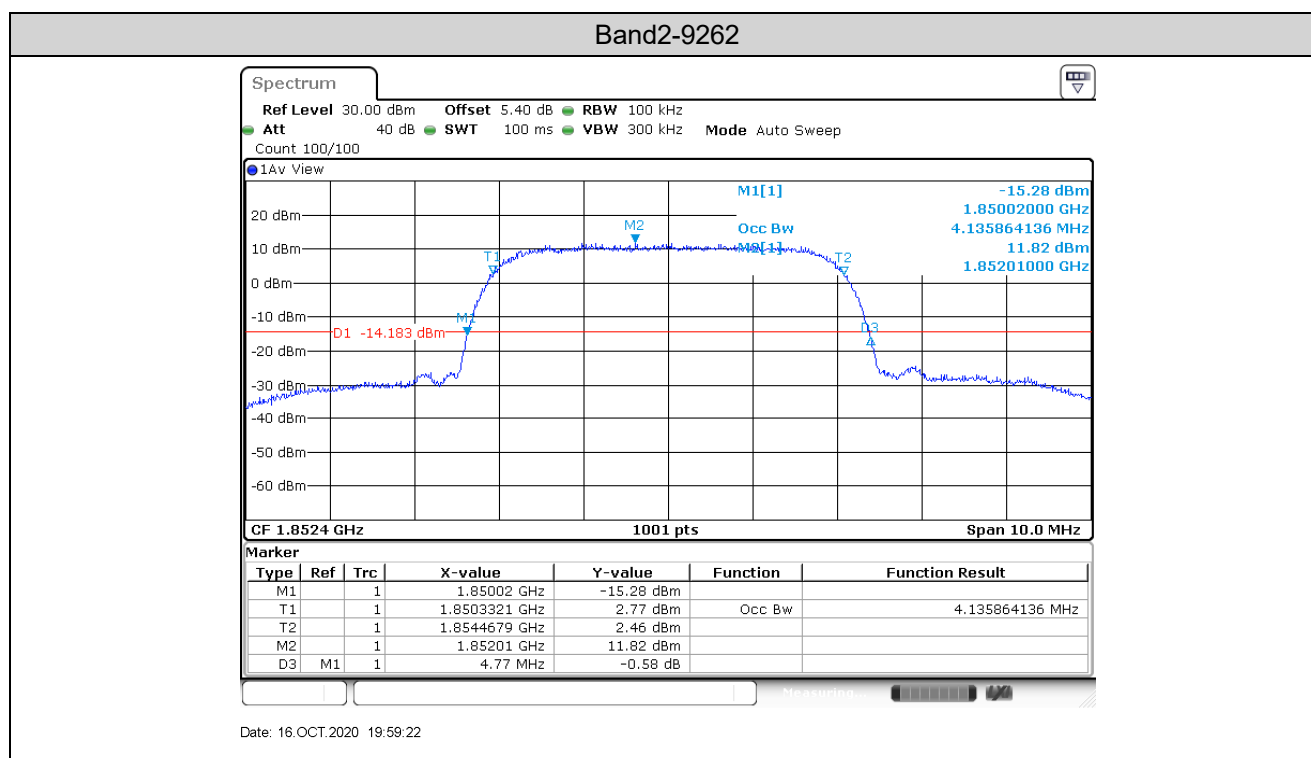
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4. 26dB Bandwidth and Occupied Bandwidth

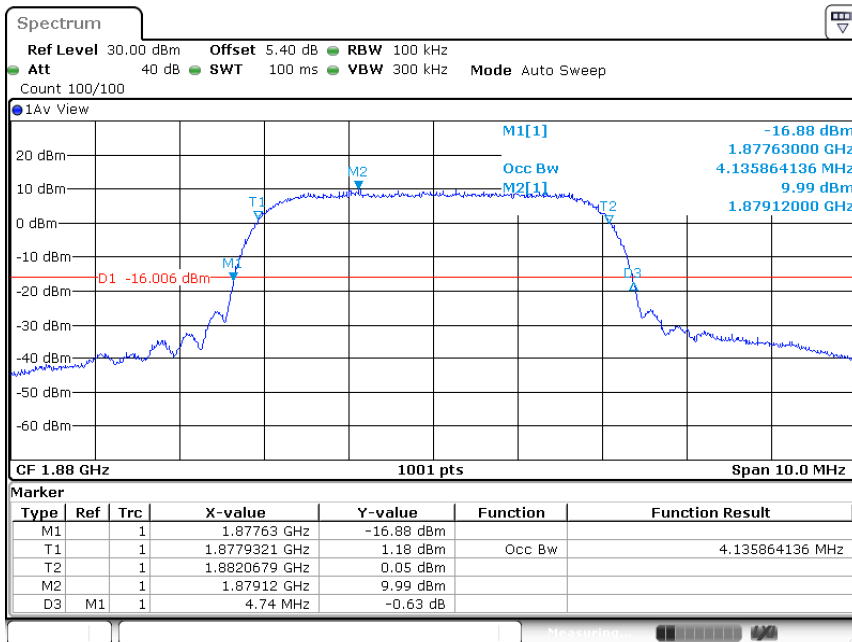
4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.136	4.770	---	PASS
Band2	9400	4.136	4.740	---	PASS
Band2	9538	4.126	4.740	---	PASS
Band5	4132	4.136	4.770	---	PASS
Band5	4182	4.126	4.720	---	PASS
Band5	4233	4.146	4.760	---	PASS

4.2. Test Plots

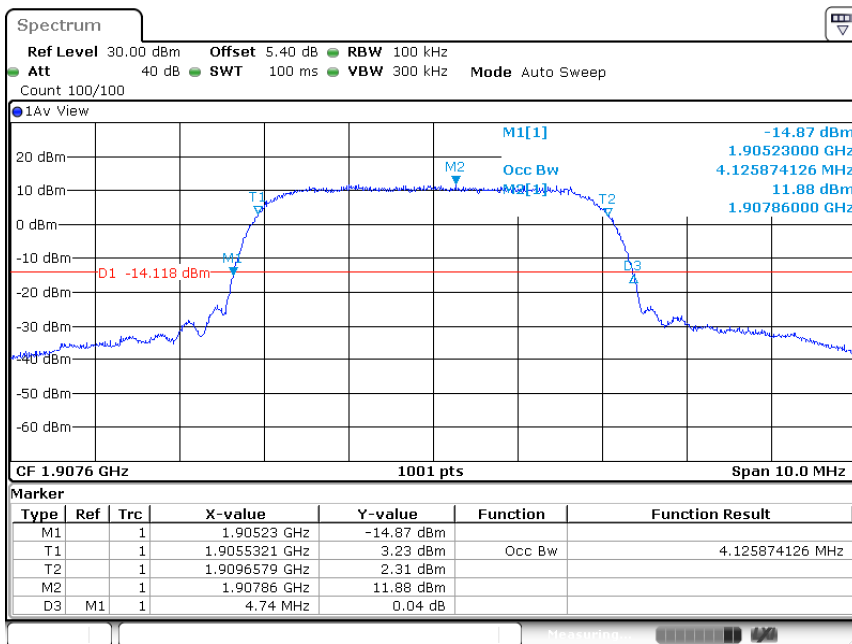


Band2-9400



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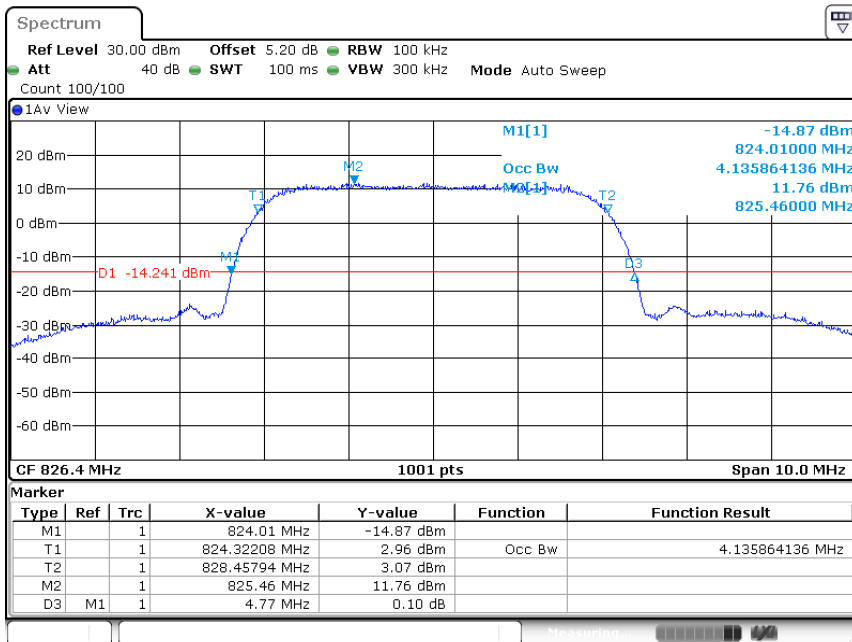
Band2-9538



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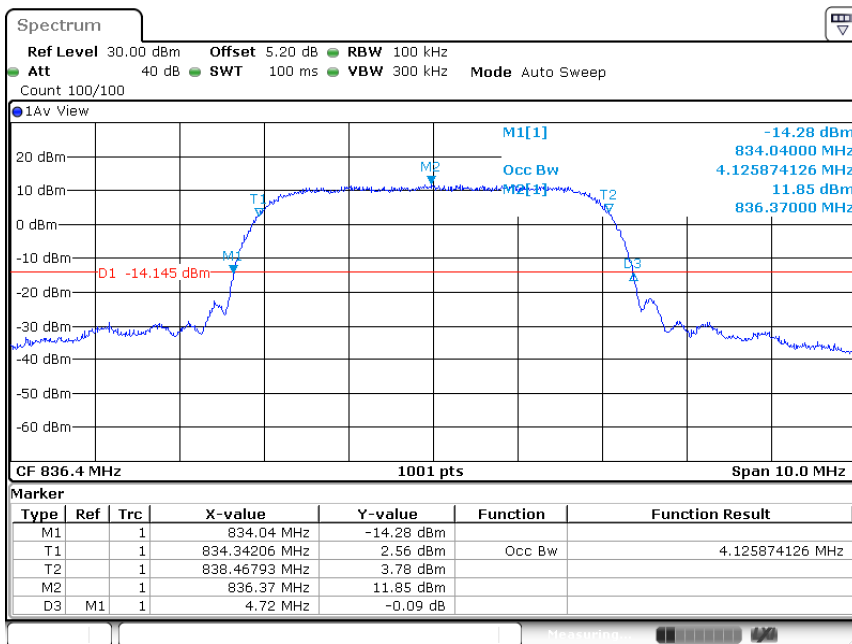


Band5-4132



Date: 16.OCT.2020 20:16:27

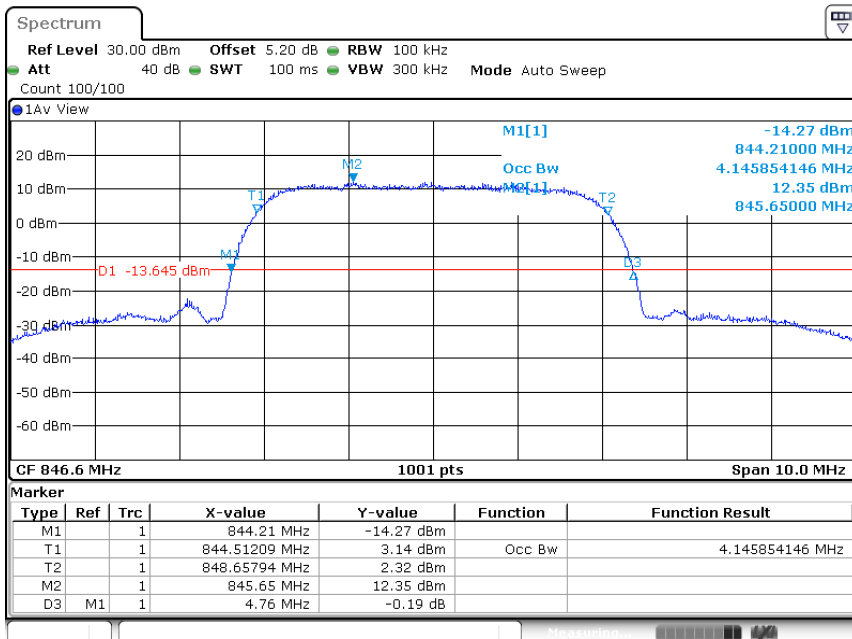
Band5-4182



Date: 16.OCT.2020 20:16:49



Band5-4233

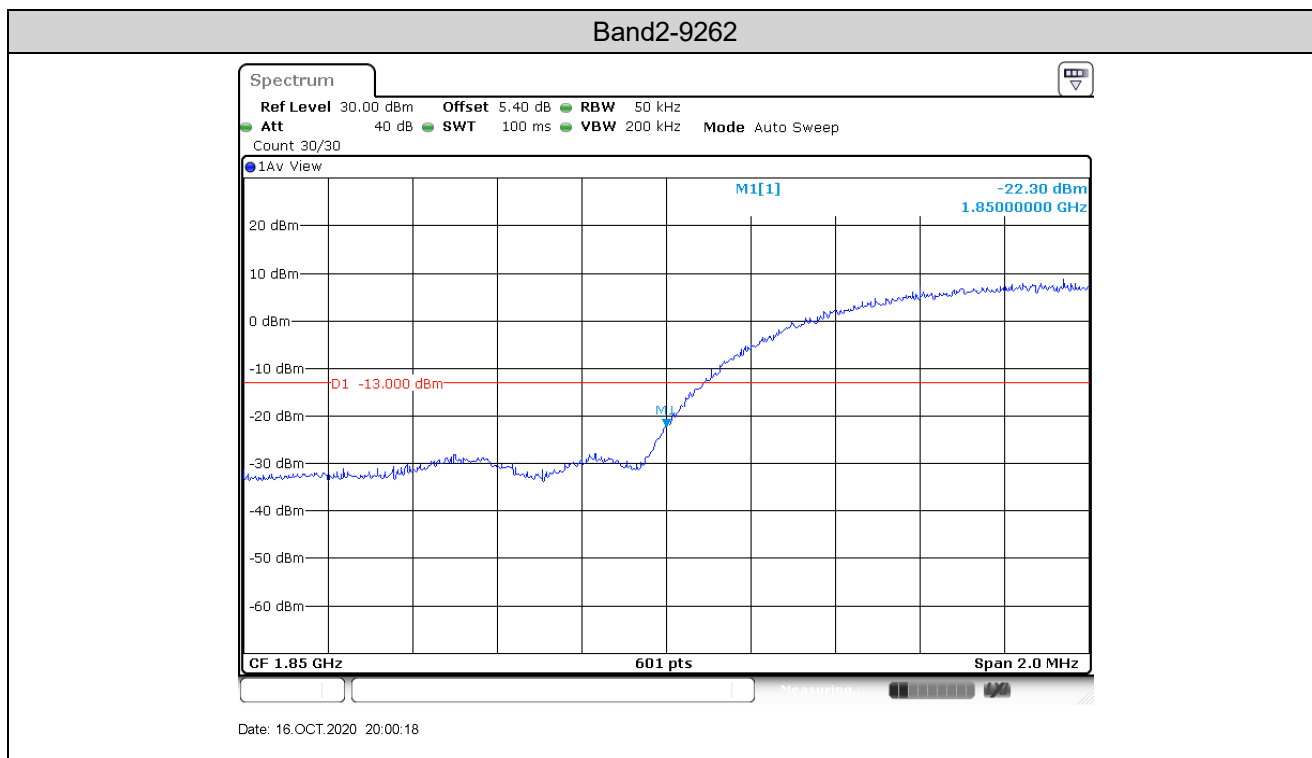


Date: 16.OCT.2020 20:17:10



5. Band Edge Compliance

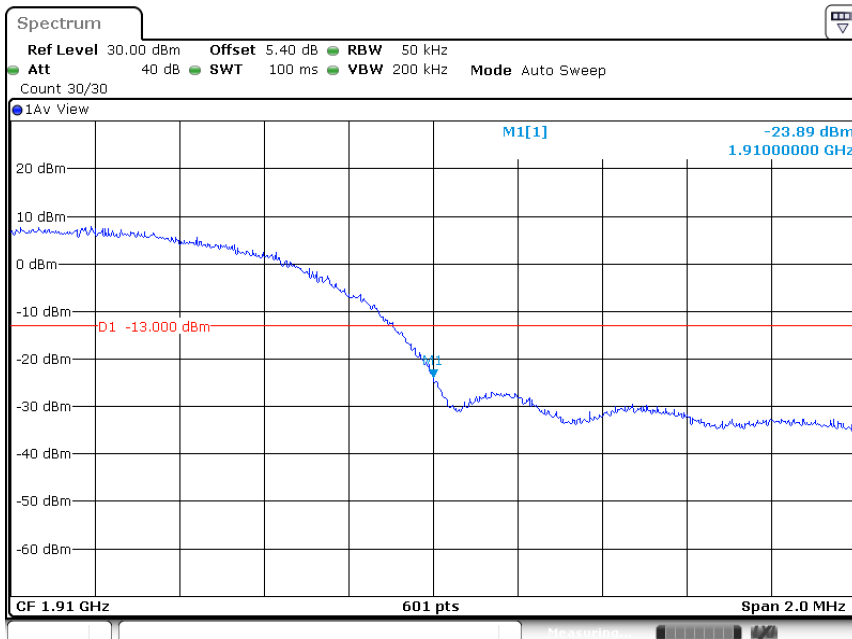
5.1. Test Plots



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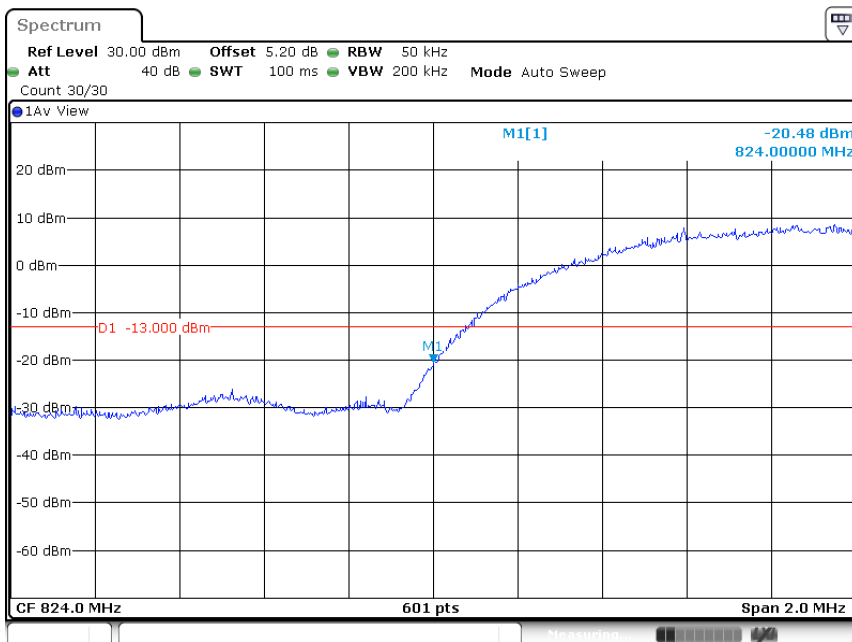
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Band2-9538



Date: 16.OCT.2020 20:00:32

Band5-4132

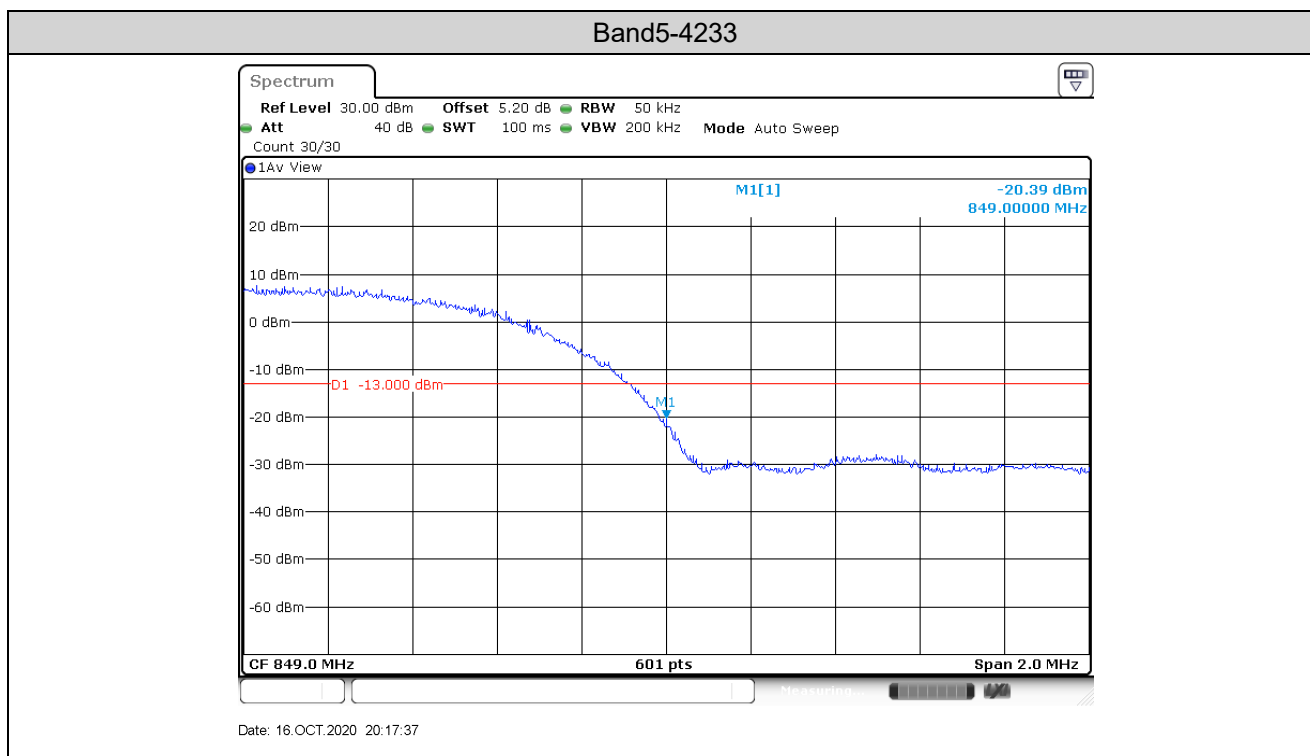


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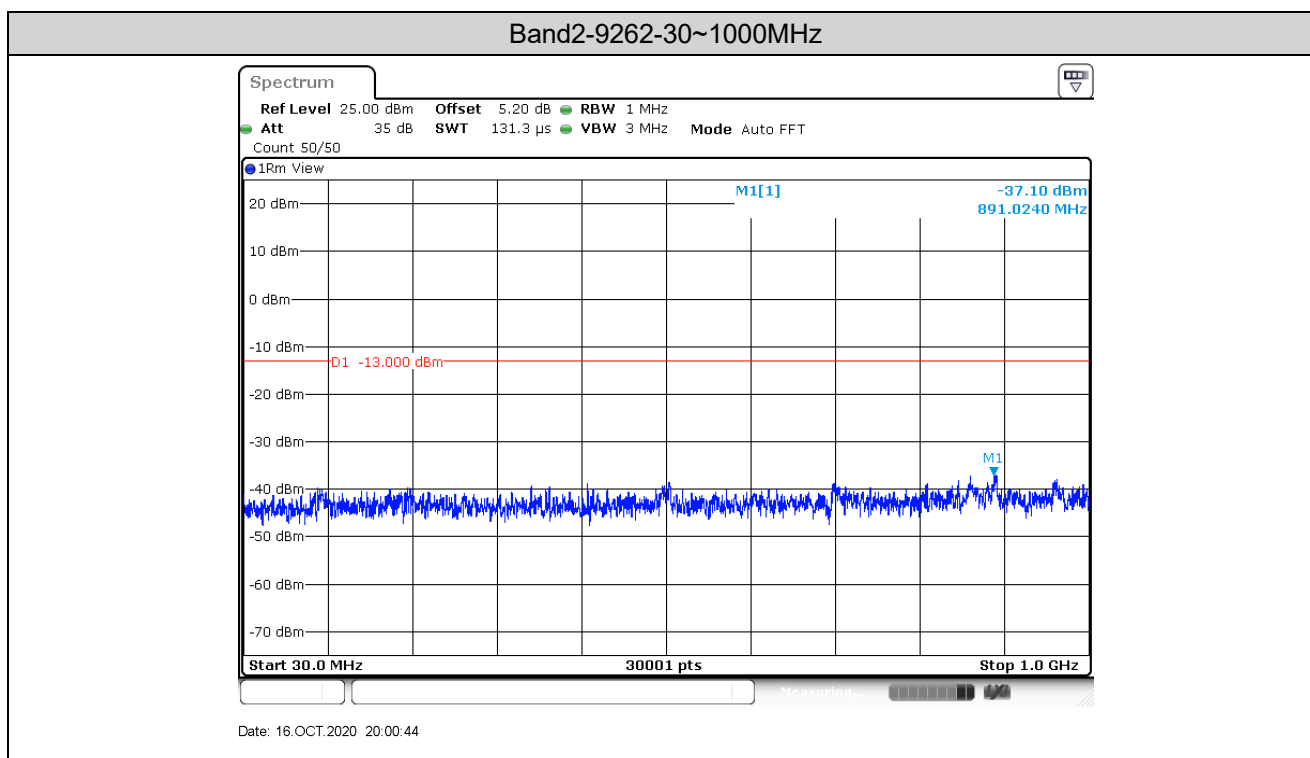
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6. Spurious Emission at Antenna Terminal

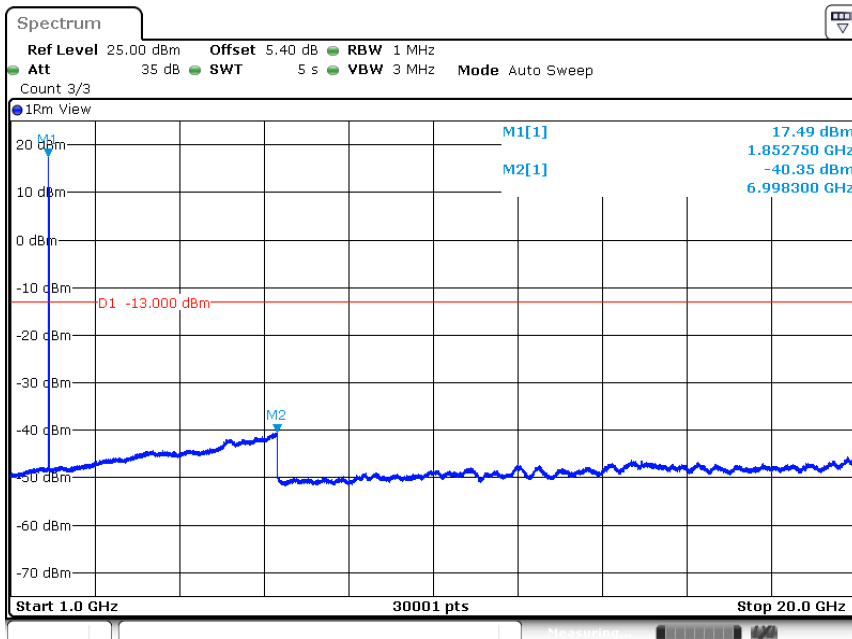
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

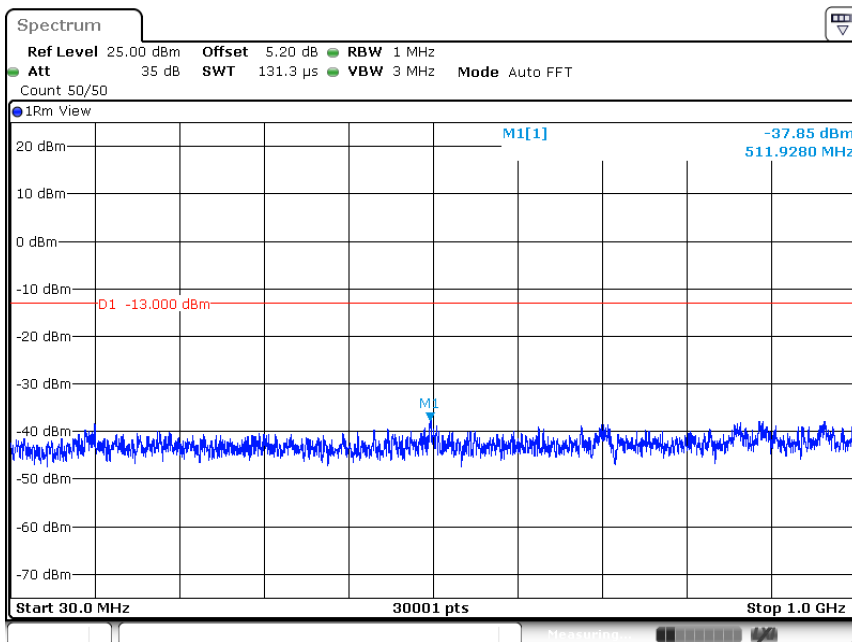


Band2-9262-1000~20000MHz



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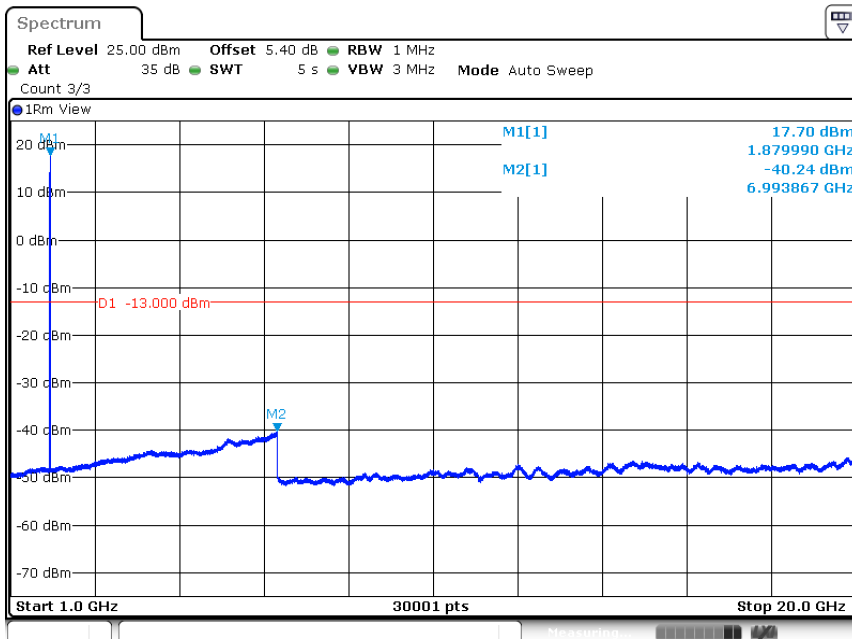
Band2-9400-30~1000MHz



Date: 16.OCT.2020 20:01:20

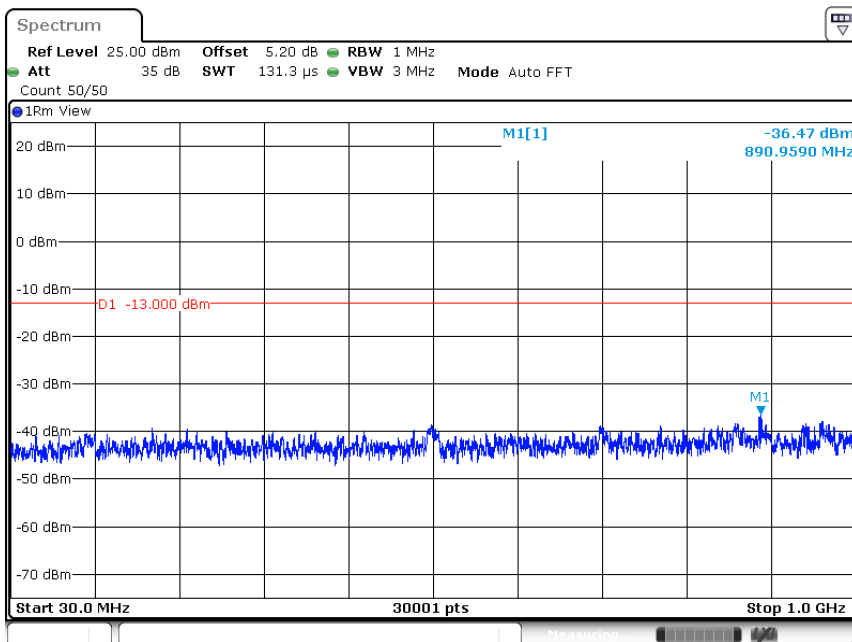


Band2-9400-1000~20000MHz



Date: 16.OCT.2020 20:01:43

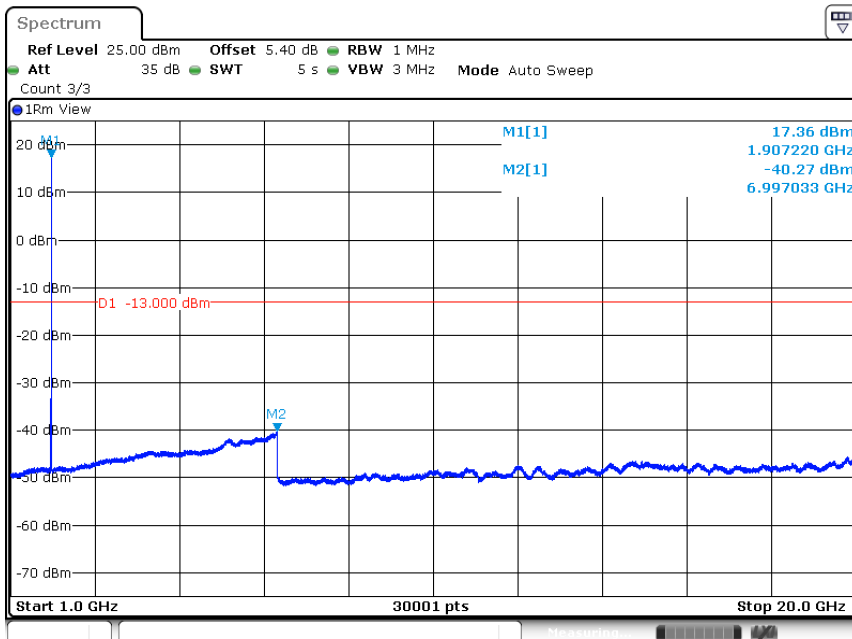
Band2-9538-30~1000MHz



Date: 16.OCT.2020 20:01:56

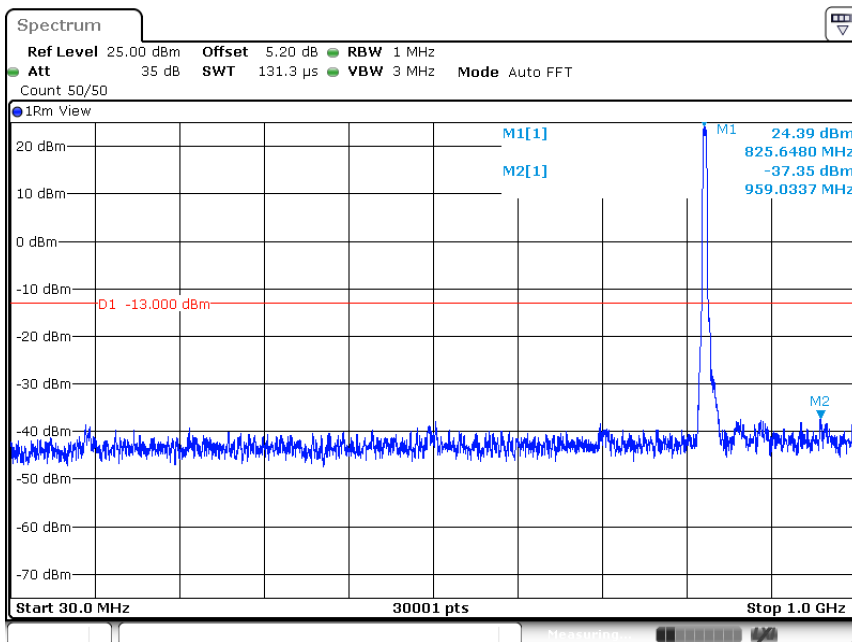


Band2-9538-1000~20000MHz



Date: 16.OCT.2020 20:02:19

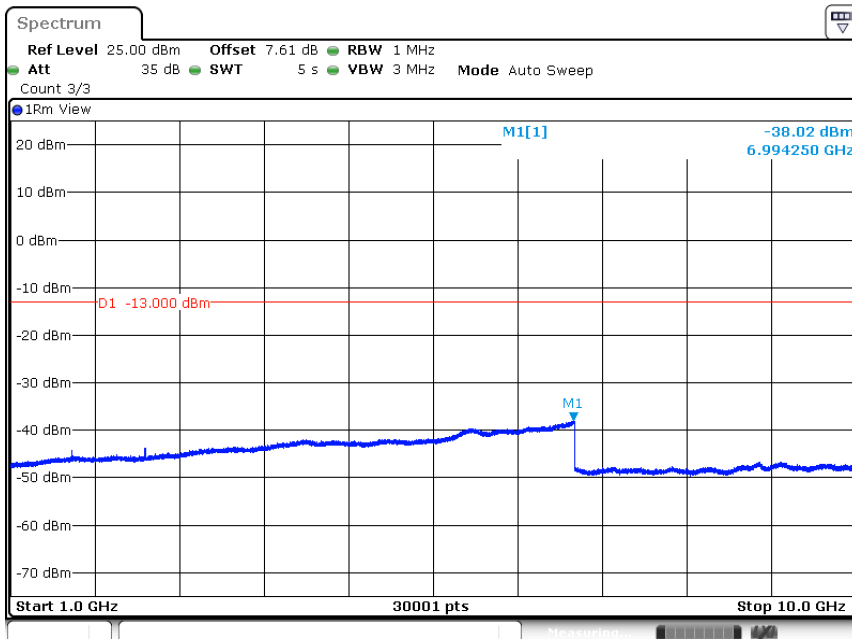
Band5-4132-30~1000MHz



Date: 16.OCT.2020 20:17:50

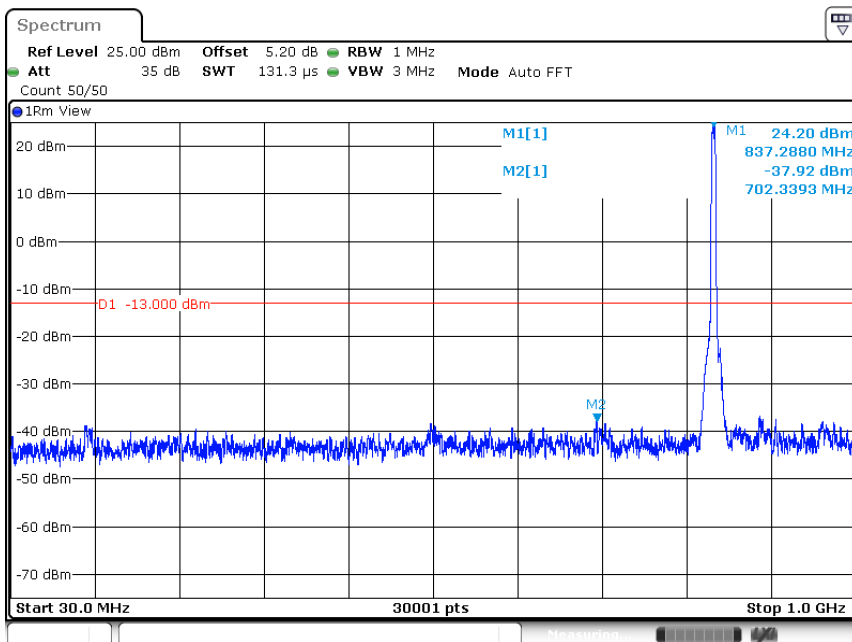


Band5-4132-1000~10000MHz



Date: 16.OCT.2020 20:18:13

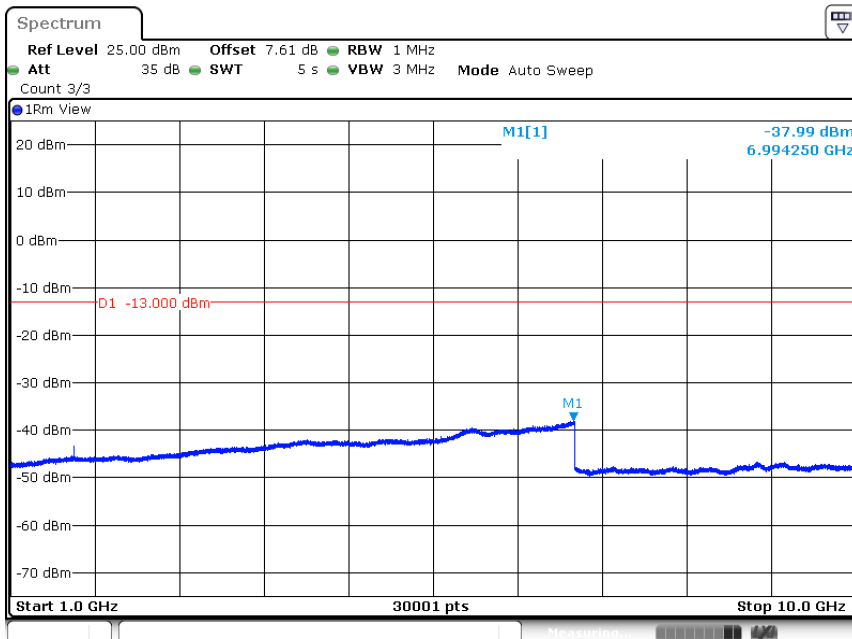
Band5-4182-30~1000MHz



Date: 16.OCT.2020 20:18:26

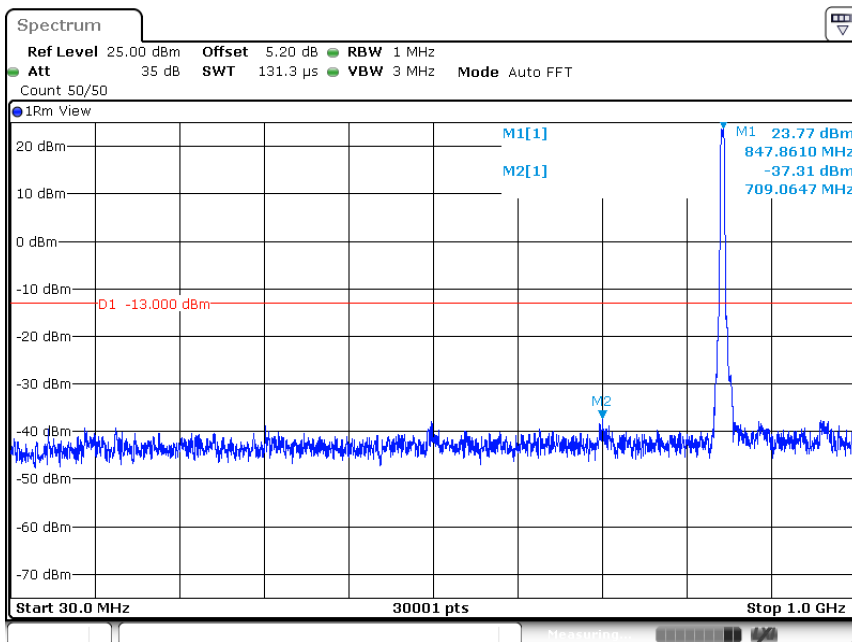


Band5-4182-1000~10000MHz



Date: 16.OCT.2020 20:18:49

Band5-4233-30~1000MHz

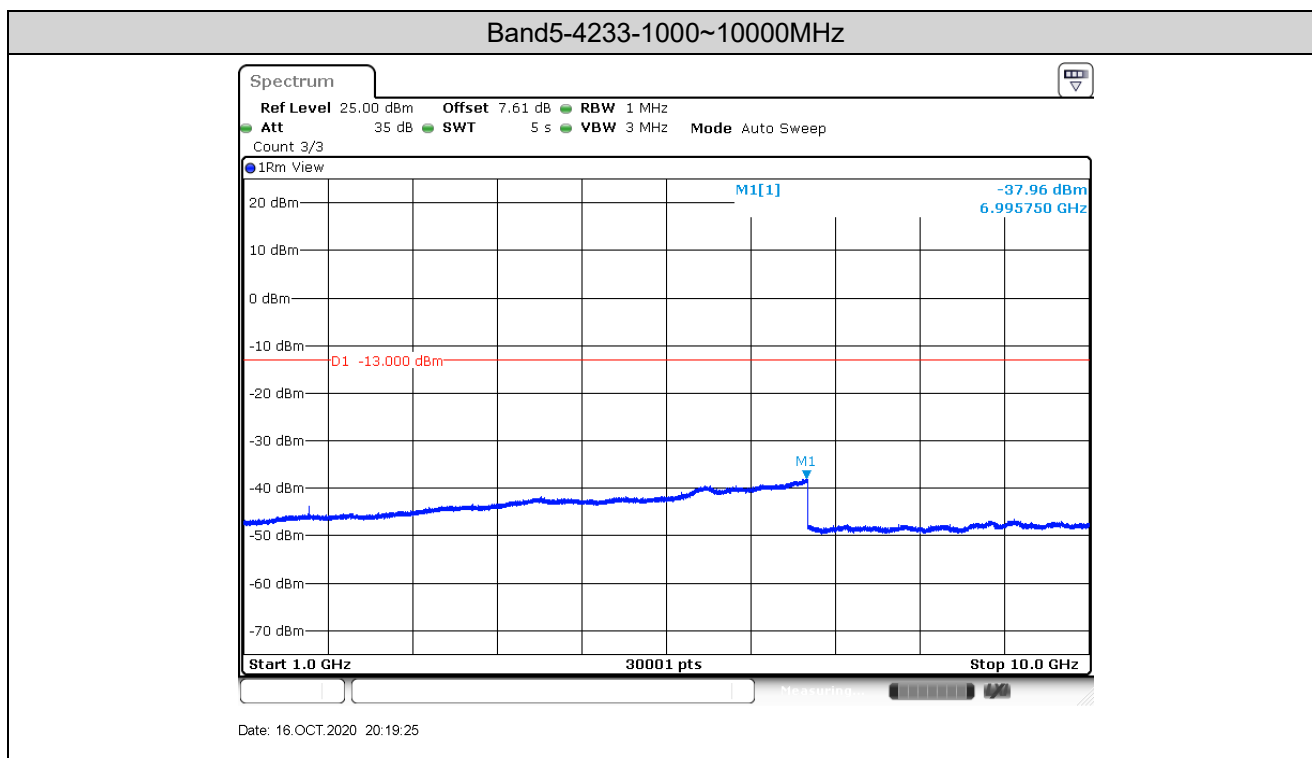


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7. Field Strength of Spurious Radiation

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
30.7760	-65.65	-13.00	52.65	Vertical
114.0062	-64.66	-13.00	51.66	Vertical
380.2360	-67.00	-13.00	54.00	Vertical
3633.0211	-61.68	-13.00	48.68	Vertical
7445.1482	-55.72	-13.00	42.72	Vertical
17999.0000	-39.86	-13.00	26.86	Vertical
43.1442	-64.61	-13.00	51.61	Horizontal
100.9590	-75.10	-13.00	62.10	Horizontal
246.8543	-67.65	-13.00	54.65	Horizontal
3639.5213	-61.37	-13.00	48.37	Horizontal
8023.1674	-56.23	-13.00	43.23	Horizontal
16386.4462	-43.92	-13.00	30.92	Horizontal





7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.4365	-66.30	-13.00	53.30	Vertical
110.2715	-64.88	-13.00	51.88	Vertical
474.8642	-65.84	-13.00	52.84	Vertical
5642.0881	-57.74	-13.00	44.74	Vertical
10539.7513	-51.66	-13.00	38.66	Vertical
17997.9999	-40.27	-13.00	27.27	Vertical
40.1855	-63.90	-13.00	50.90	Horizontal
100.3285	-74.96	-13.00	61.96	Horizontal
235.3108	-67.89	-13.00	54.89	Horizontal
3762.0254	-58.88	-13.00	45.88	Horizontal
5642.0881	-59.35	-13.00	46.35	Horizontal
16399.9467	-43.61	-13.00	30.61	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.9700	-65.78	-13.00	52.78	Vertical
105.7123	-65.01	-13.00	52.01	Vertical
386.9778	-67.61	-13.00	54.61	Vertical
3768.5256	-62.00	-13.00	49.00	Vertical
7460.1487	-55.77	-13.00	42.77	Vertical
17998.5000	-40.48	-13.00	27.48	Vertical
44.3567	-63.87	-13.00	50.87	Horizontal
94.9447	-75.22	-13.00	62.22	Horizontal
231.2851	-68.28	-13.00	55.28	Horizontal
3640.0213	-61.16	-13.00	48.16	Horizontal
7329.1443	-56.55	-13.00	43.55	Horizontal
16378.4459	-43.51	-13.00	30.51	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)	Polarization
30.9215	-66.21	-13.00	53.21	Vertical
112.2116	-64.99	-13.00	51.99	Vertical
388.1419	-67.68	-13.00	54.68	Vertical
1700.1400	-58.96	-13.00	45.96	Vertical
2697.1394	-51.93	-13.00	38.93	Vertical
9882.6294	-52.34	-13.00	39.34	Vertical
44.4537	-64.45	-13.00	51.45	Horizontal
98.2429	-75.06	-13.00	62.06	Horizontal
231.0911	-67.41	-13.00	54.41	Horizontal
1654.5309	-57.92	-13.00	44.92	Horizontal
2694.3389	-50.85	-13.00	37.85	Horizontal
9312.1104	-52.70	-13.00	39.70	Horizontal





7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.0186	-65.75	-13.00	52.75	Vertical
112.2116	-64.62	-13.00	51.62	Vertical
467.4919	-66.87	-13.00	53.87	Vertical
1670.9342	-60.68	-13.00	47.68	Vertical
2699.9400	-51.97	-13.00	38.97	Vertical
9298.3433	-52.61	-13.00	39.61	Vertical
40.5735	-63.58	-13.00	50.58	Horizontal
102.3171	-75.06	-13.00	62.06	Horizontal
246.3693	-68.12	-13.00	55.12	Horizontal
1670.9342	-57.86	-13.00	44.86	Horizontal
2690.7381	-50.98	-13.00	37.98	Horizontal
9316.7772	-52.84	-13.00	39.84	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.1641	-65.63	-13.00	52.63	Vertical
107.9434	-63.67	-13.00	50.67	Vertical
337.3114	-67.79	-13.00	54.79	Vertical
1699.7399	-58.99	-13.00	45.99	Vertical
2700.3401	-51.86	-13.00	38.86	Vertical
9888.2296	-51.98	-13.00	38.98	Vertical
42.6106	-63.99	-13.00	50.99	Horizontal
80.5880	-75.04	-13.00	62.04	Horizontal
244.4777	-68.18	-13.00	55.18	Horizontal
1694.9390	-57.56	-13.00	44.56	Horizontal
2697.9396	-50.95	-13.00	37.95	Horizontal
7483.6495	-55.60	-13.00	42.60	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.



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	-0.40	-0.000216	±2.5	PASS
Band2	9262	VN	NT	-0.87	-0.000470	±2.5	PASS
Band2	9262	VH	NT	-0.64	-0.000345	±2.5	PASS
Band2	9400	VL	NT	-0.49	-0.000261	±2.5	PASS
Band2	9400	VN	NT	-0.89	-0.000473	±2.5	PASS
Band2	9400	VH	NT	-0.79	-0.000420	±2.5	PASS
Band2	9538	VL	NT	-1.70	-0.000891	±2.5	PASS
Band2	9538	VN	NT	-1.65	-0.000865	±2.5	PASS
Band2	9538	VH	NT	-1.63	-0.000854	±2.5	PASS
Band5	4132	VL	NT	0.37	0.000448	±2.5	PASS
Band5	4132	VN	NT	0.22	0.000266	±2.5	PASS
Band5	4132	VH	NT	0.21	0.000254	±2.5	PASS
Band5	4182	VL	NT	-0.19	-0.000227	±2.5	PASS
Band5	4182	VN	NT	-0.16	-0.000191	±2.5	PASS
Band5	4182	VH	NT	-0.14	-0.000167	±2.5	PASS
Band5	4233	VL	NT	-0.59	-0.000697	±2.5	PASS
Band5	4233	VN	NT	-0.44	-0.000520	±2.5	PASS
Band5	4233	VH	NT	-0.58	-0.000685	±2.5	PASS





8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	-0.39	-0.000211	±2.5	PASS
Band2	9262	NV	-20	-0.55	-0.000297	±2.5	PASS
Band2	9262	NV	-10	-0.32	-0.000173	±2.5	PASS
Band2	9262	NV	0	-0.37	-0.000200	±2.5	PASS
Band2	9262	NV	10	-0.17	-0.000092	±2.5	PASS
Band2	9262	NV	20	-0.31	-0.000167	±2.5	PASS
Band2	9262	NV	30	-0.26	-0.000140	±2.5	PASS
Band2	9262	NV	40	-0.21	-0.000113	±2.5	PASS
Band2	9262	NV	50	-0.23	-0.000124	±2.5	PASS
Band2	9400	NV	-30	-0.87	-0.000463	±2.5	PASS
Band2	9400	NV	-20	-0.36	-0.000191	±2.5	PASS
Band2	9400	NV	-10	-0.64	-0.000340	±2.5	PASS
Band2	9400	NV	0	-0.75	-0.000399	±2.5	PASS
Band2	9400	NV	10	-0.53	-0.000282	±2.5	PASS
Band2	9400	NV	20	-0.62	-0.000330	±2.5	PASS
Band2	9400	NV	30	-0.74	-0.000394	±2.5	PASS
Band2	9400	NV	40	-0.61	-0.000324	±2.5	PASS
Band2	9400	NV	50	-0.54	-0.000287	±2.5	PASS
Band2	9538	NV	-30	-1.75	-0.000917	±2.5	PASS
Band2	9538	NV	-20	-1.59	-0.000834	±2.5	PASS
Band2	9538	NV	-10	-1.80	-0.000944	±2.5	PASS
Band2	9538	NV	0	-1.62	-0.000849	±2.5	PASS
Band2	9538	NV	10	-1.54	-0.000807	±2.5	PASS
Band2	9538	NV	20	-1.79	-0.000938	±2.5	PASS
Band2	9538	NV	30	-1.84	-0.000965	±2.5	PASS
Band2	9538	NV	40	-1.65	-0.000865	±2.5	PASS
Band2	9538	NV	50	-1.90	-0.000996	±2.5	PASS
Band5	4132	NV	-30	0.11	0.000133	±2.5	PASS
Band5	4132	NV	-20	0.19	0.000230	±2.5	PASS
Band5	4132	NV	-10	-0.01	-0.000012	±2.5	PASS
Band5	4132	NV	0	0.00	0.000000	±2.5	PASS
Band5	4132	NV	10	0.00	0.000000	±2.5	PASS
Band5	4132	NV	20	0.16	0.000194	±2.5	PASS



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Band5	4132	NV	30	0.14	0.000169	±2.5	PASS
Band5	4132	NV	40	0.11	0.000133	±2.5	PASS
Band5	4132	NV	50	0.10	0.000121	±2.5	PASS
Band5	4182	NV	-30	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	-20	0.02	0.000024	±2.5	PASS
Band5	4182	NV	-10	-0.06	-0.000072	±2.5	PASS
Band5	4182	NV	0	-0.02	-0.000024	±2.5	PASS
Band5	4182	NV	10	0.06	0.000072	±2.5	PASS
Band5	4182	NV	20	0.04	0.000048	±2.5	PASS
Band5	4182	NV	30	0.01	0.000012	±2.5	PASS
Band5	4182	NV	40	0.00	0.000000	±2.5	PASS
Band5	4182	NV	50	-0.09	-0.000108	±2.5	PASS
Band5	4233	NV	-30	-0.52	-0.000614	±2.5	PASS
Band5	4233	NV	-20	-0.56	-0.000661	±2.5	PASS
Band5	4233	NV	-10	-0.65	-0.000768	±2.5	PASS
Band5	4233	NV	0	-0.44	-0.000520	±2.5	PASS
Band5	4233	NV	10	-0.67	-0.000791	±2.5	PASS
Band5	4233	NV	20	-0.62	-0.000732	±2.5	PASS
Band5	4233	NV	30	-0.51	-0.000602	±2.5	PASS
Band5	4233	NV	40	-0.56	-0.000661	±2.5	PASS
Band5	4233	NV	50	-0.57	-0.000673	±2.5	PASS

The End



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