Appendix B

WCDMA Band II & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	23.23	23.93	33	PASS
Band2	9400	23.18	23.88	33	PASS
Band2	9538	23.23	23.93	33	PASS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band5	4132	23.77	21.52	38.45	PASS
Band5	4182	23.83	21.58	38.45	PASS
Band5	4233	23.94	21.69	38.45	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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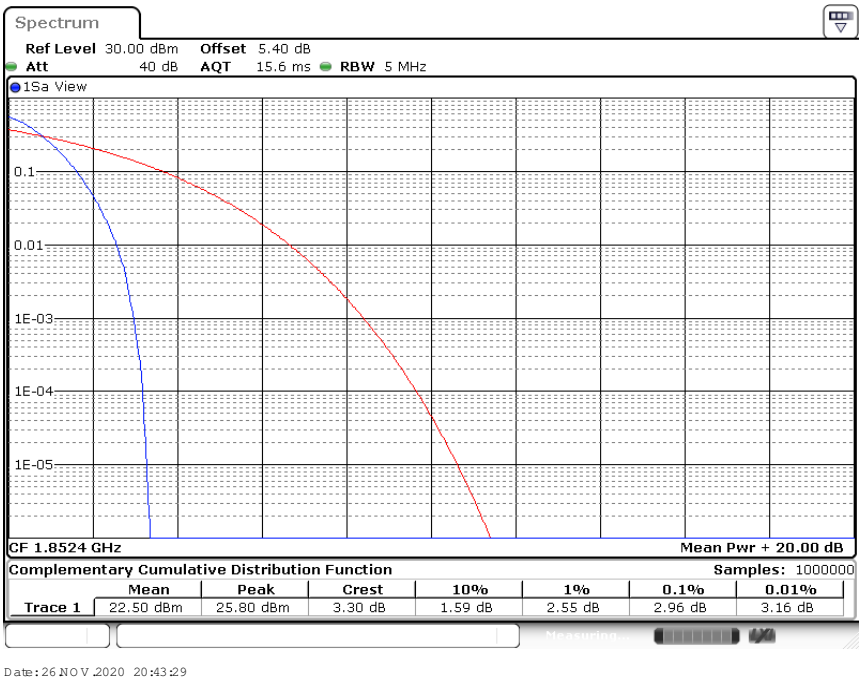
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.96	13	PASS
Band2	9400	3.04	13	PASS
Band2	9538	2.99	13	PASS
Band5	4132	3.13	13	PASS
Band5	4182	2.99	13	PASS
Band5	4233	3.07	13	PASS

2.2. Test Plots

Band2-9262



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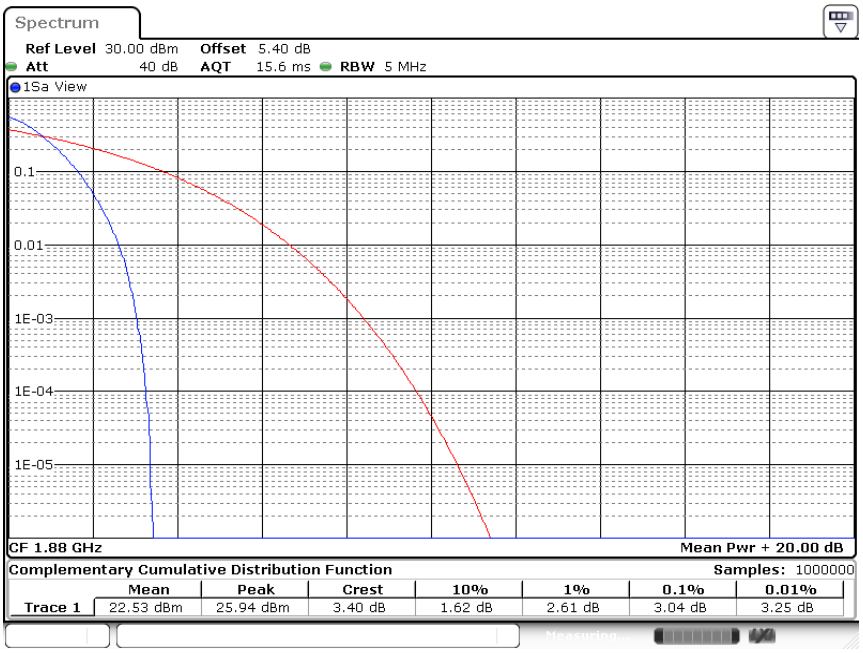
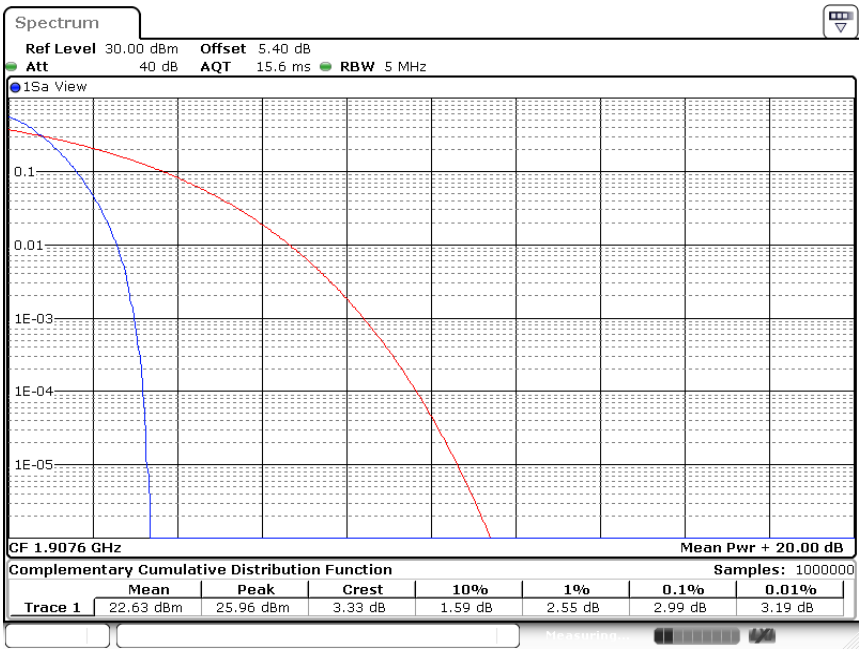
Band2-9400



Band2-9538



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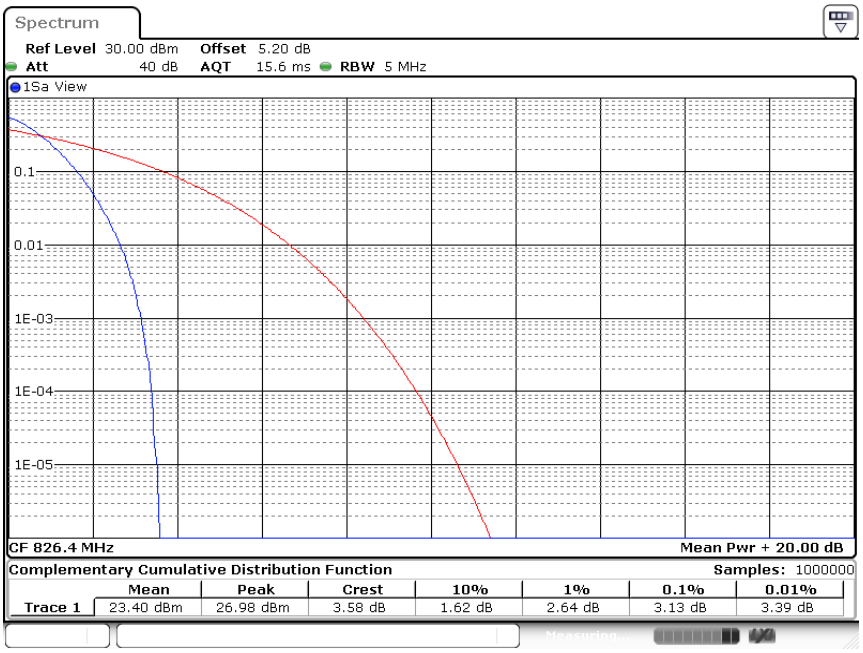
Band5-4132



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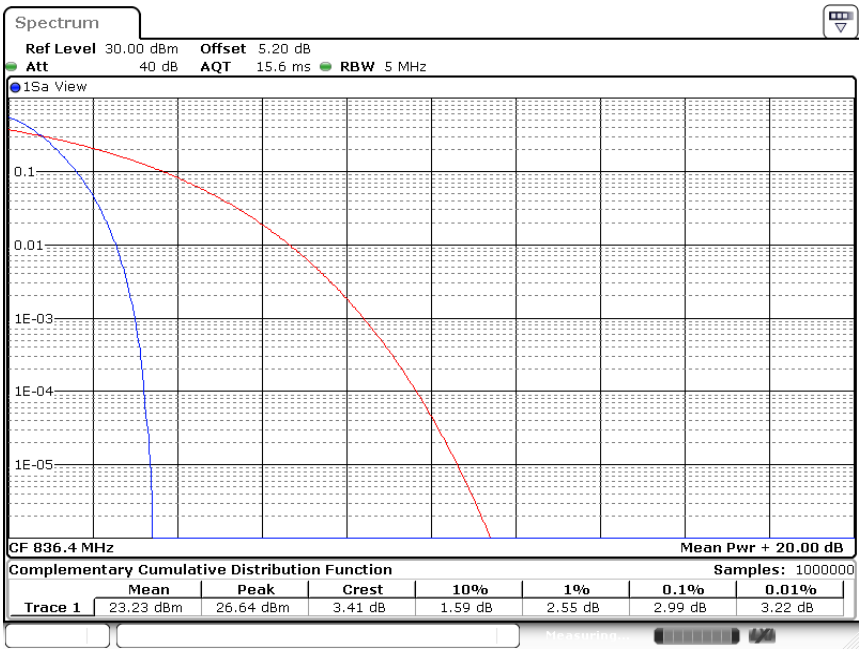
Band5-4182



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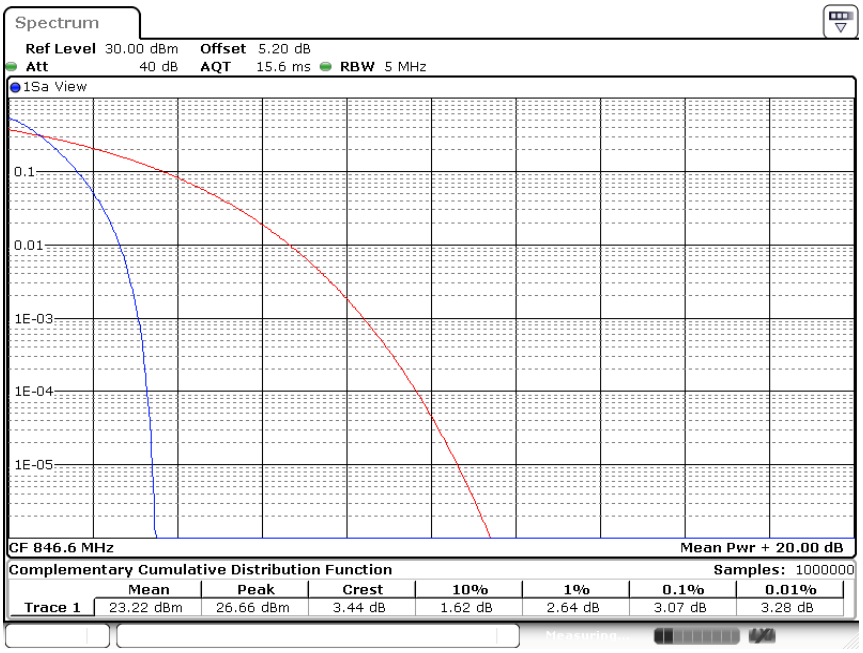
Band5-4233



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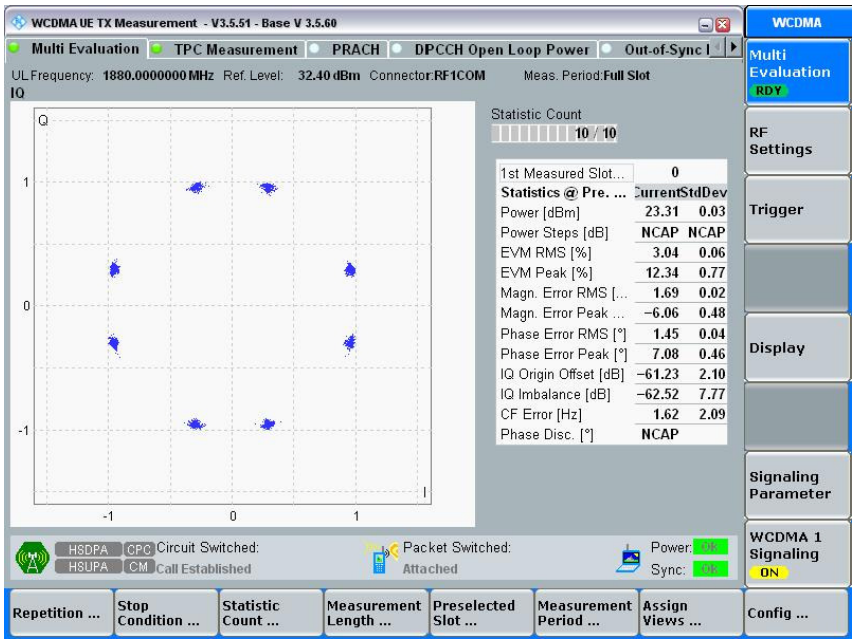
3. Modulation Characteristics

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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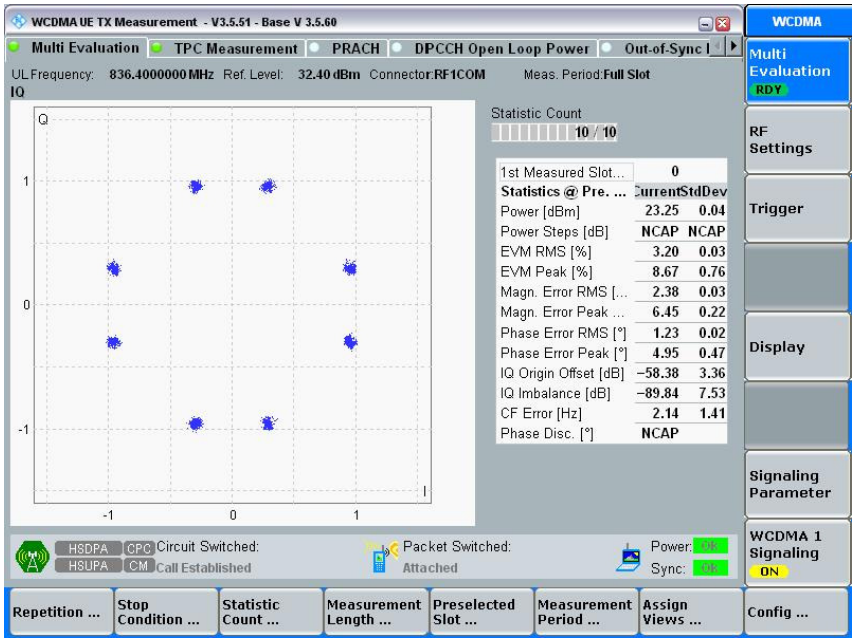
3.2. Test Band = WCDMA Band V

3.2.1.1. Test Channel = MCH



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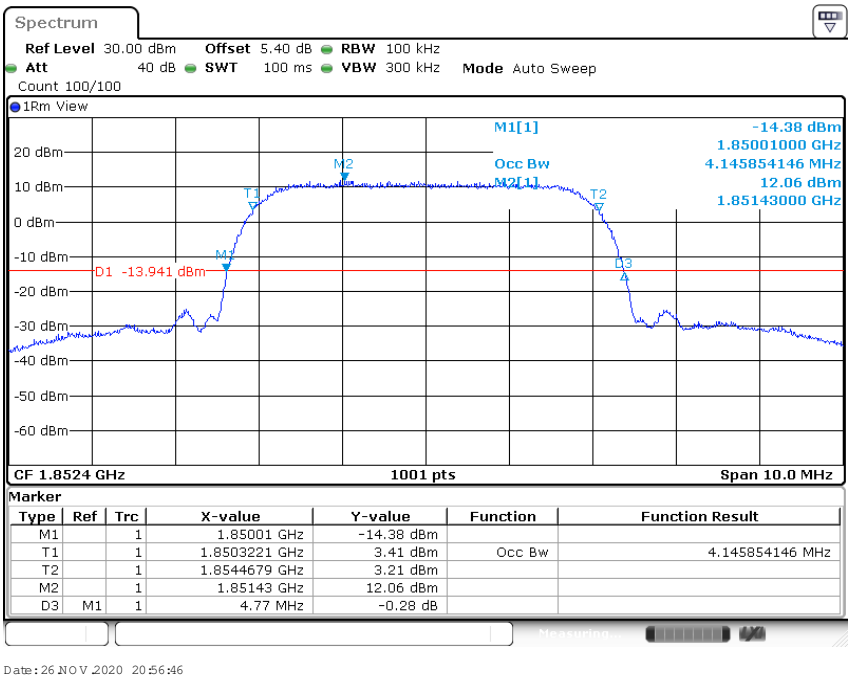
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.146	4.770	---	PASS
Band2	9400	4.146	4.740	---	PASS
Band2	9538	4.126	4.750	---	PASS
Band5	4132	4.166	4.760	---	PASS
Band5	4182	4.136	4.760	---	PASS
Band5	4233	4.096	4.720	---	PASS

4.2. Test Plots

Band2-9262



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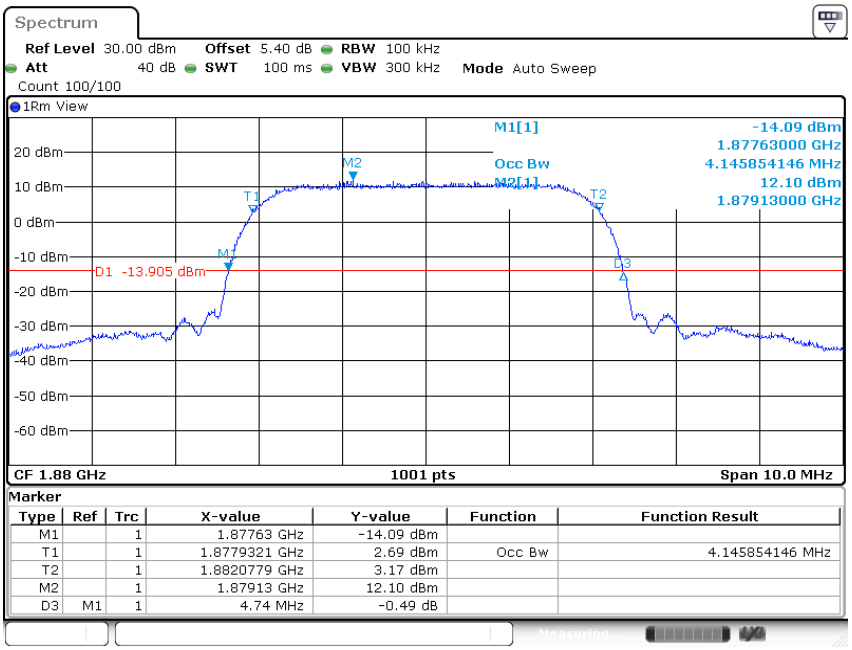
Band2-9400



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.87763 GHz	-14.09 dBm		
T1		1	1.8779321 GHz	2.69 dBm	Occ Bw	4.145854146 MHz
T2		1	1.8820779 GHz	3.17 dBm		
M2		1	1.87913 GHz	12.10 dBm		
D3	M1	1	4.74 MHz	-0.49 dB		

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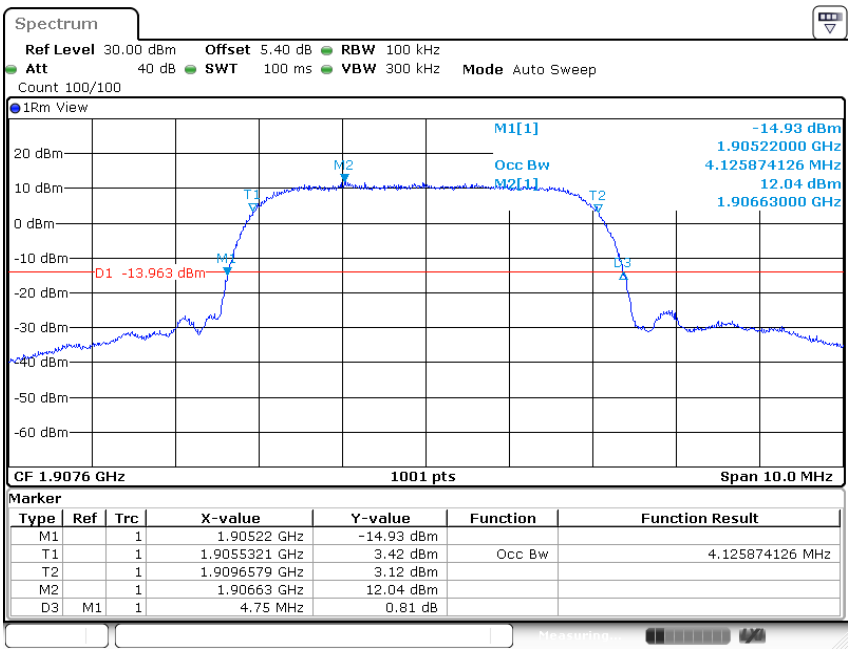
Band2-9538



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.90522 GHz	-14.93 dBm		
T1		1	1.9055321 GHz	3.42 dBm	Occ Bw	4.125874126 MHz
T2		1	1.9096579 GHz	3.12 dBm		
M2		1	1.90663 GHz	12.04 dBm		
D3	M1	1	4.75 MHz	0.81 dB		

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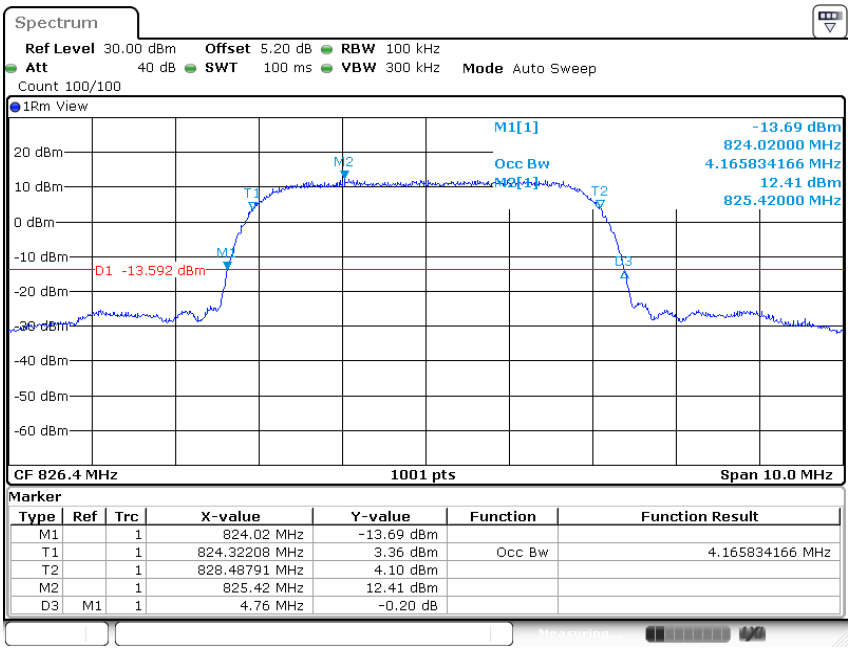
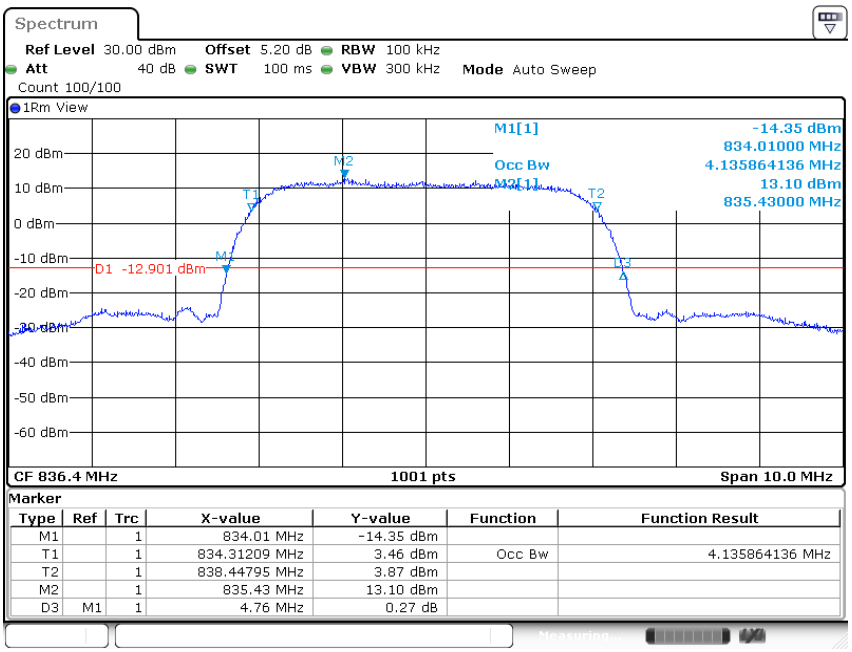
Band5-4132



Band5-4182



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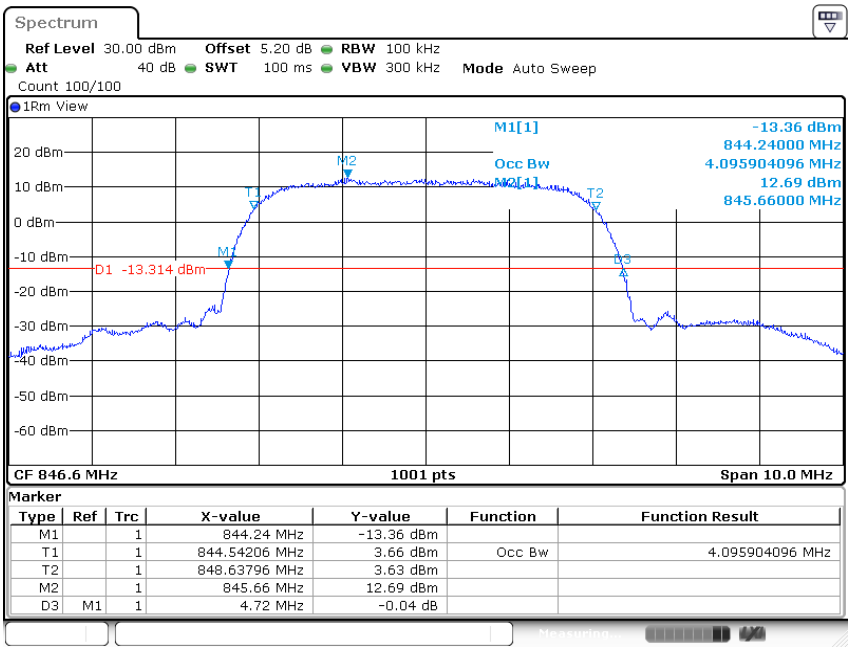
Band5-4233



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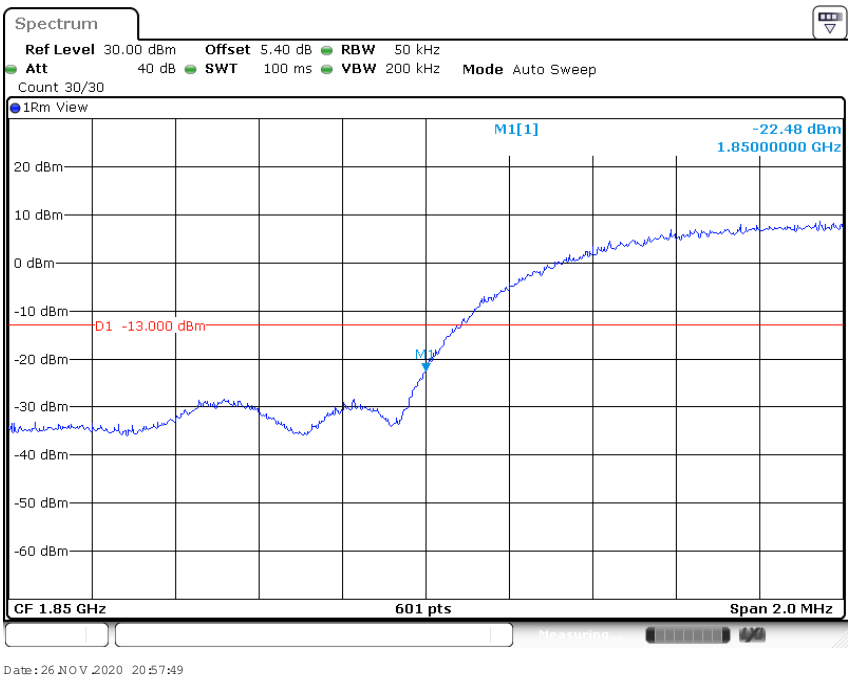
5. Band Edge Compliance

5.1. Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.48	-13	PASS
Band2	9538	1910.00	-20.38	-13	PASS
Band5	4132	824.00	-21.70	-13	PASS
Band5	4233	849.00	-22.48	-13	PASS

5.2. Test Plots

Band2-9262



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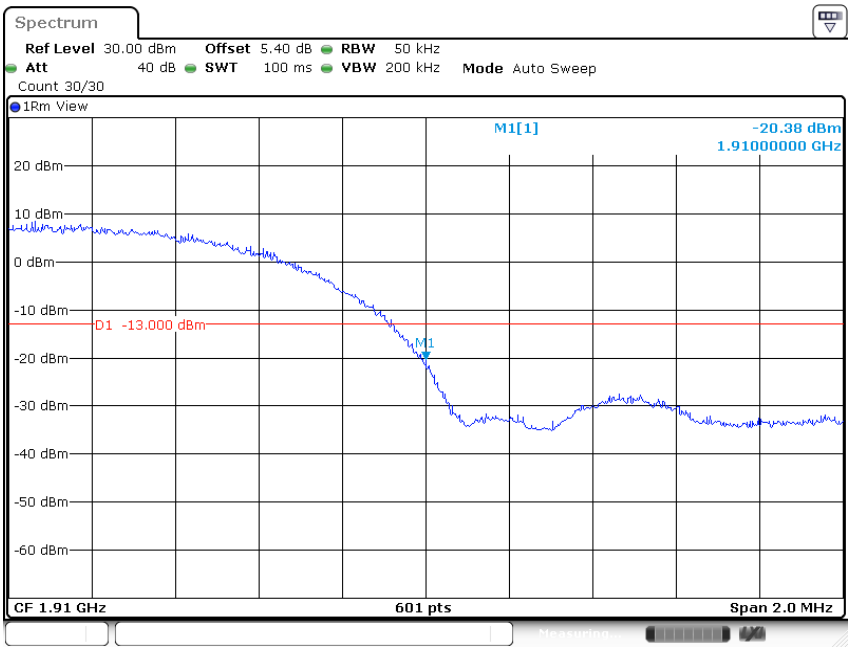
Band2-9538



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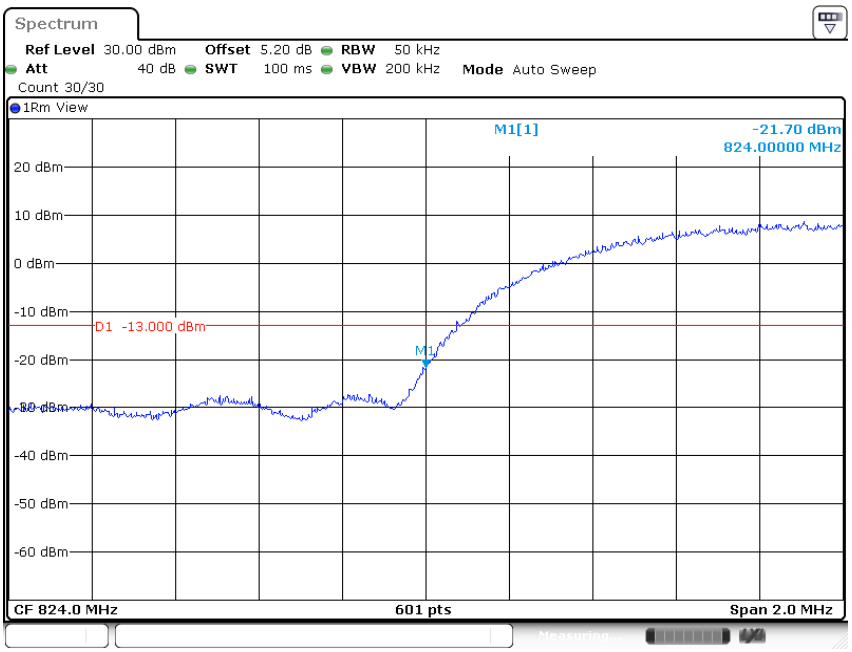
Band5-4132



Date:26.NOV.2020 21:17:10

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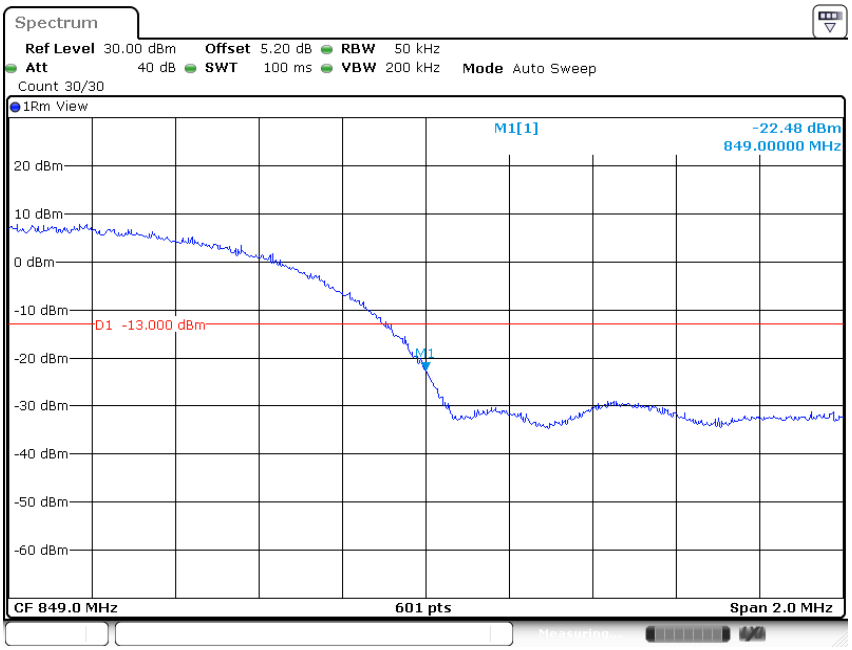
Band5-4233



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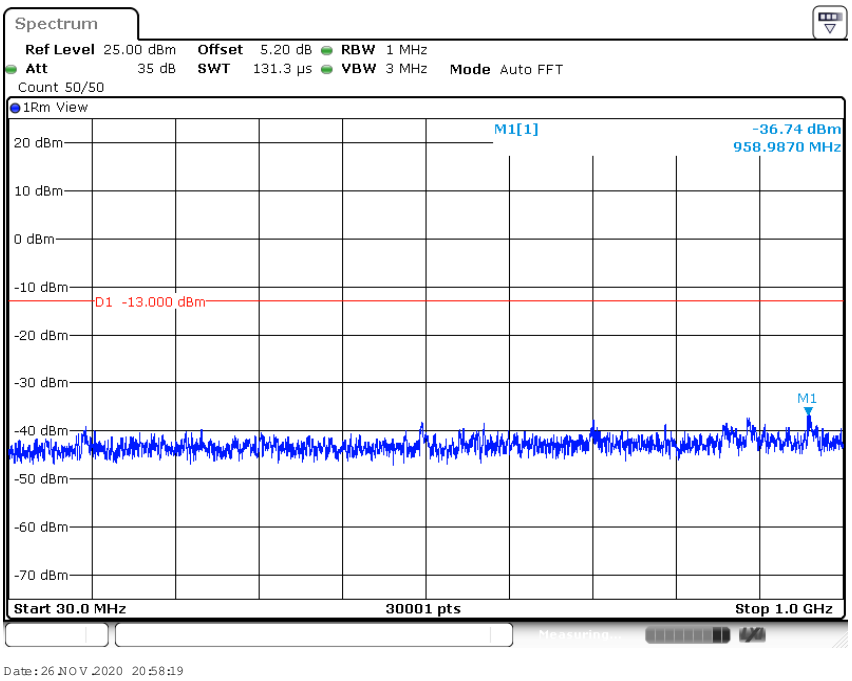
6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots

Band2-9262-30~1000MHz



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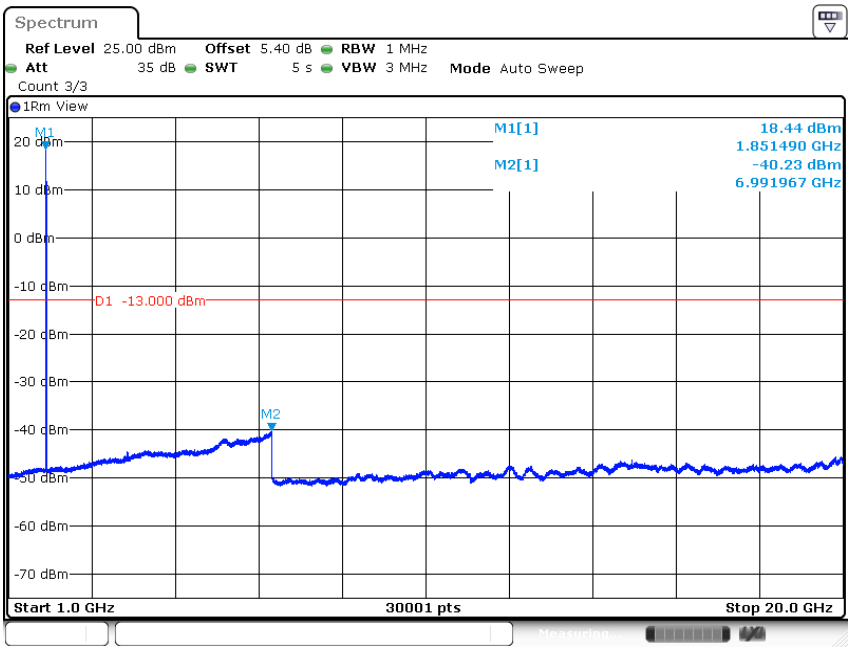
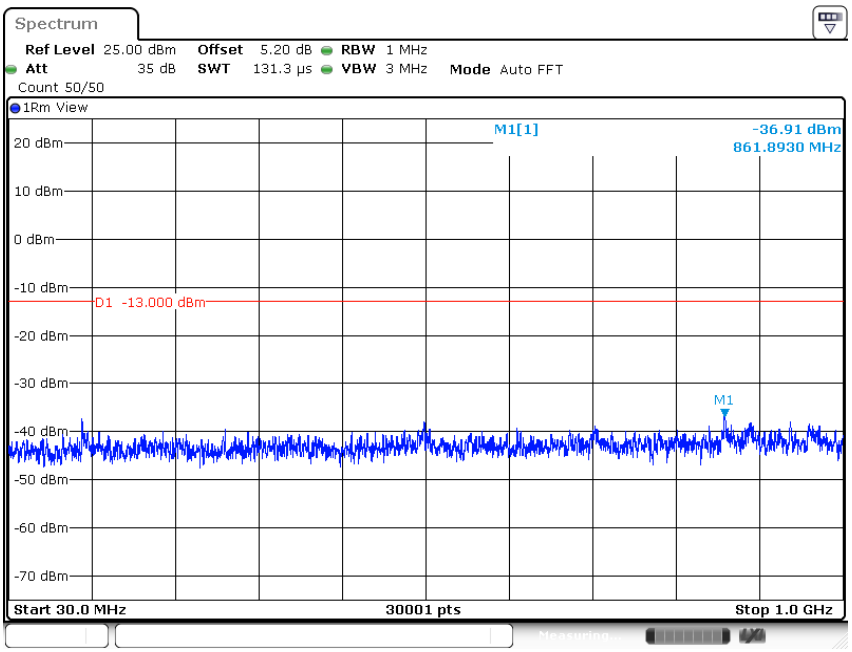
Band2-9262-1000~20000MHz



Date: 26.NOV.2020 20:58:45

Band2-9400-30~1000MHz



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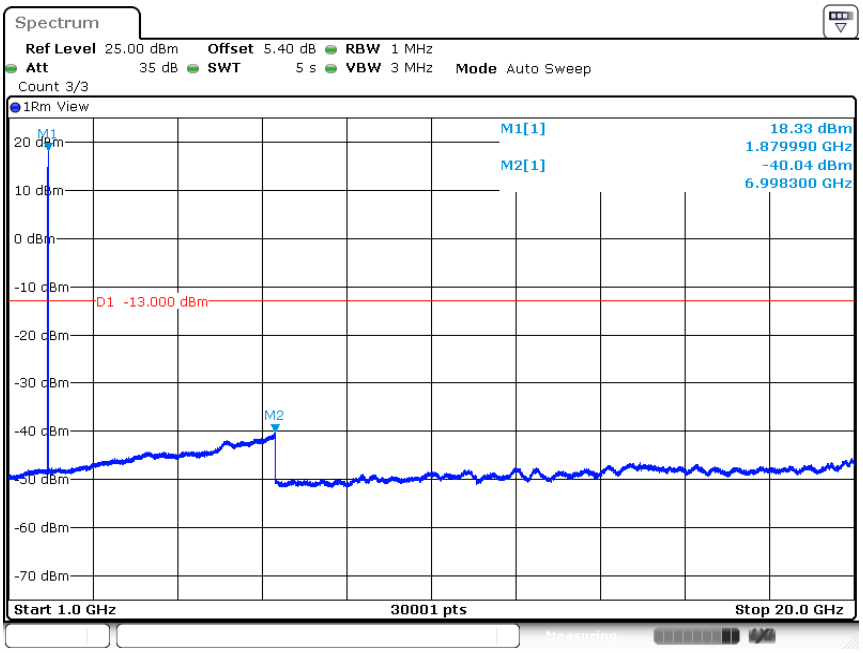
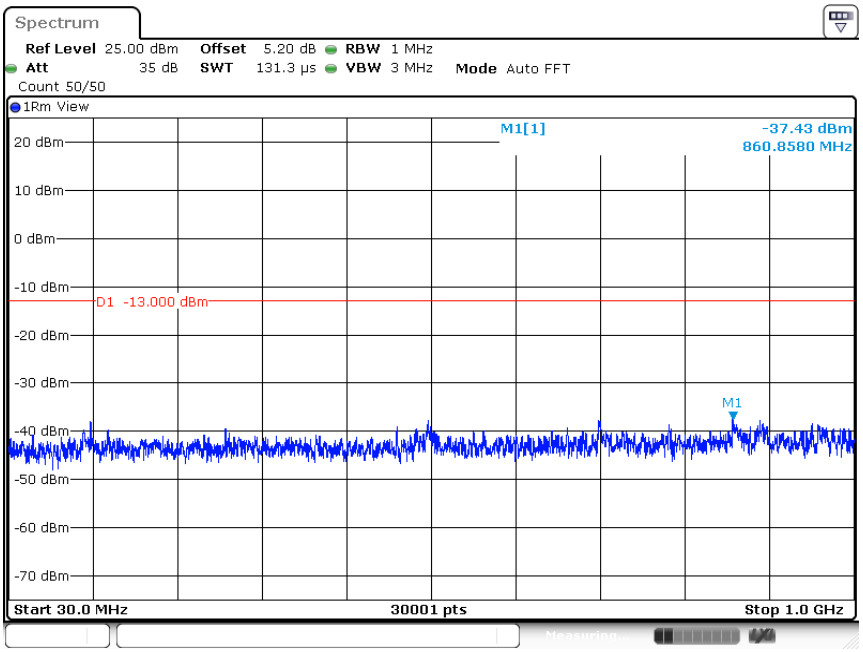
Band2-9400-1000~20000MHz



Date: 26.NOV.2020 20:59:25

Band2-9538-30~1000MHz



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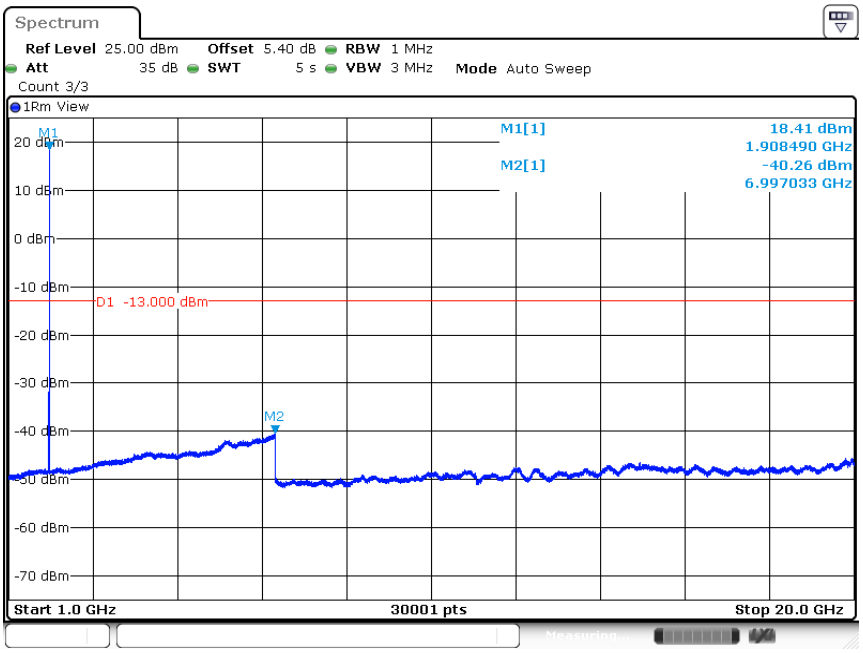
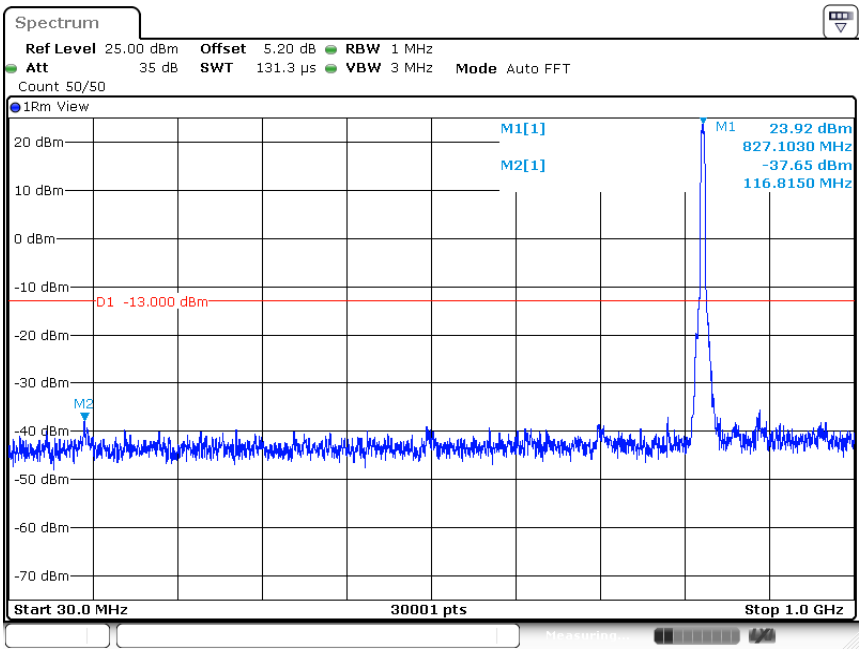
Band2-9538-1000~20000MHz



Date: 26.NOV.2020 21:00:05

Band5-4132-30~1000MHz



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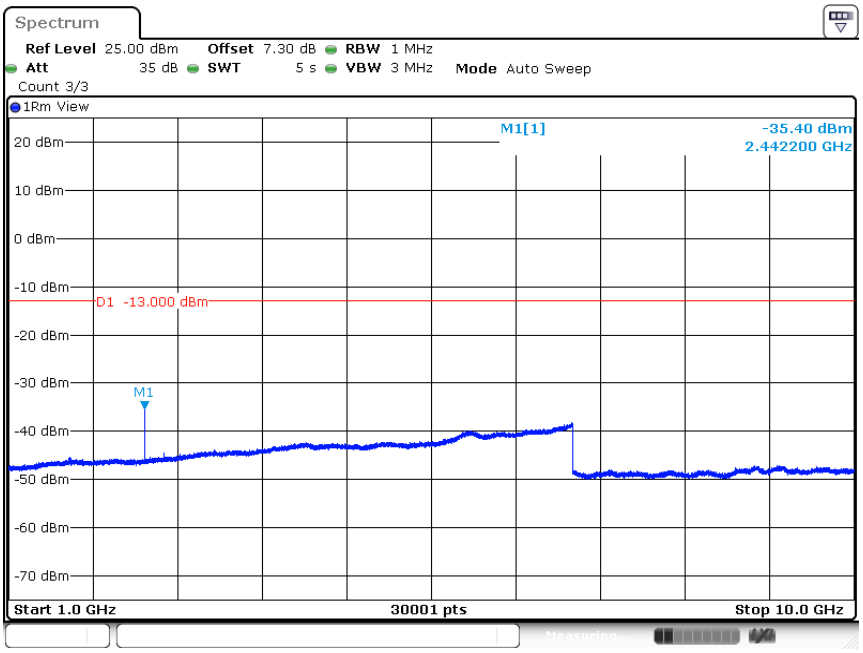
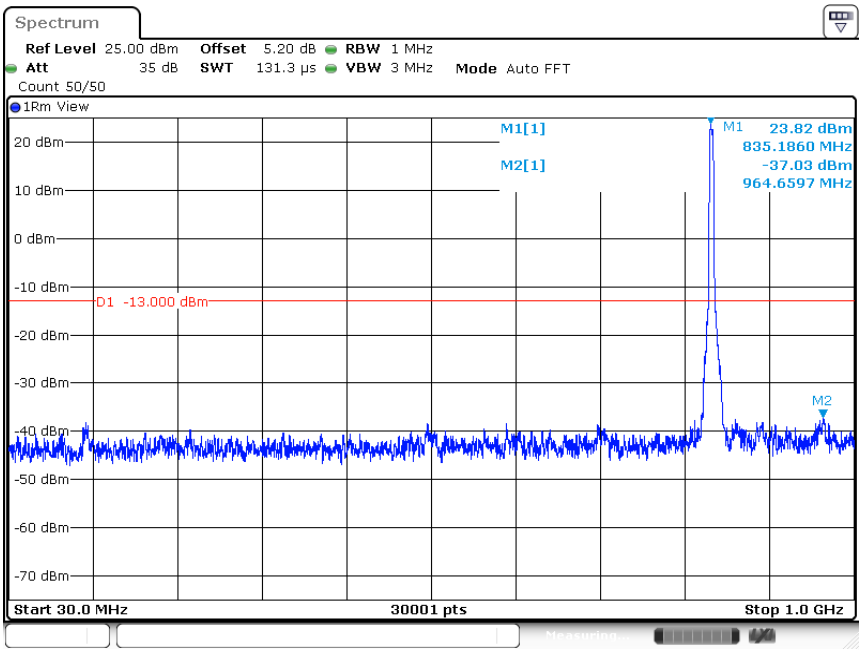
Band5-4132-1000~10000MHz



Date: 26.NOV.2020 21:18:06

Band5-4182-30~1000MHz



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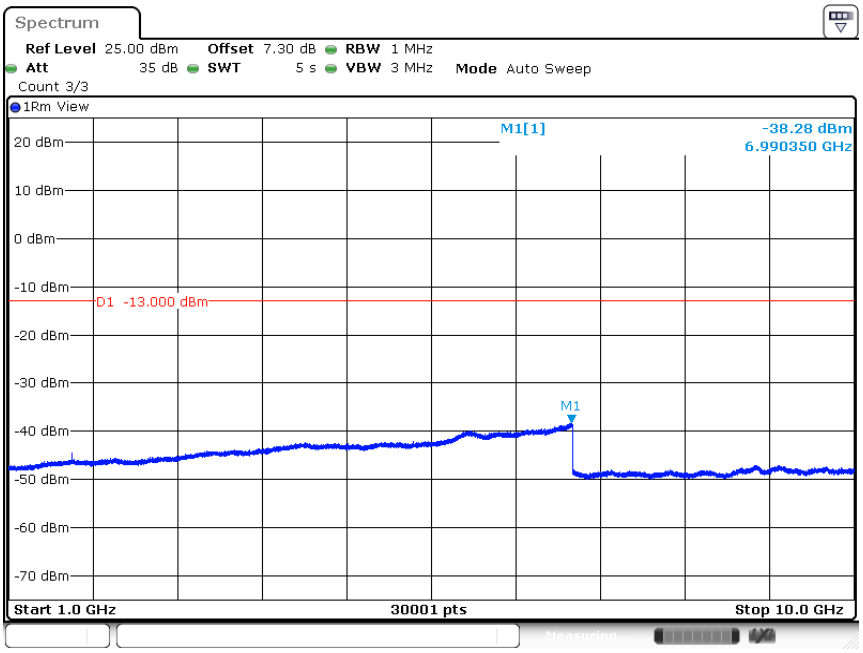
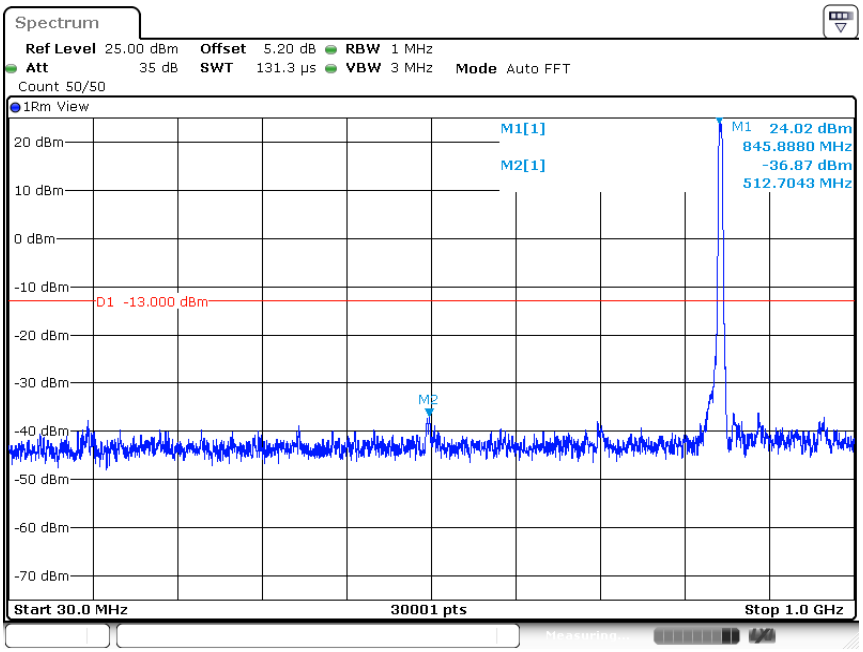
Band5-4182-1000~10000MHz



Date: 26.NOV.2020 21:18:46

Band5-4233-30~1000MHz



Date: 26.NOV.2020 21:19:01

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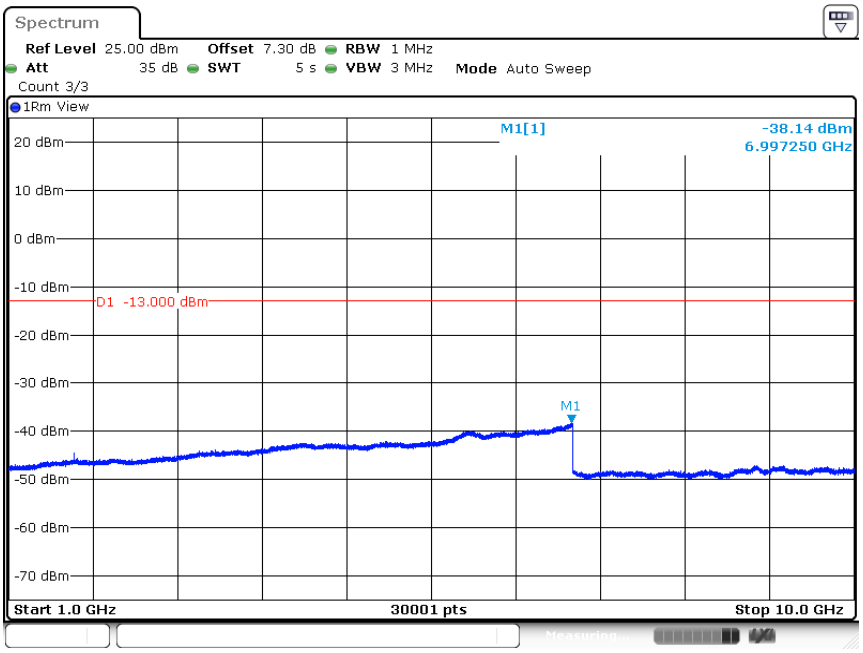
Band5-4233-1000~10000MHz


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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
49.6435	-58.63	-13.00	45.63	Vertical
116.8678	-61.44	-13.00	48.44	Vertical
2702.7405	-35.99	-13.00	22.99	Vertical
3703.5235	-54.98	-13.00	41.98	Vertical
5554.5852	-54.04	-13.00	41.04	Vertical
17998.5000	-40.95	-13.00	27.95	Vertical
48.0429	-58.05	-13.00	45.05	Horizontal
246.2723	-66.37	-13.00	53.37	Horizontal
2699.1398	-34.83	-13.00	21.83	Horizontal
3706.5236	-53.34	-13.00	40.34	Horizontal
9313.2104	-52.82	-13.00	39.82	Horizontal
16394.4465	-44.15	-13.00	31.15	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.0543	-58.51	-13.00	45.51	Vertical
118.7109	-60.98	-13.00	47.98	Vertical
2698.3397	-35.91	-13.00	22.91	Vertical
3758.0253	-53.49	-13.00	40.49	Vertical
5637.5879	-54.48	-13.00	41.48	Vertical
17997.9999	-40.48	-13.00	27.48	Vertical
46.6363	-57.67	-13.00	44.67	Horizontal
245.4963	-66.76	-13.00	53.76	Horizontal

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2699.5399	-34.65	-13.00	21.65	Horizontal
3758.0253	-52.10	-13.00	39.10	Horizontal
5637.5879	-56.35	-13.00	43.35	Horizontal
16393.4464	-44.67	-13.00	31.67	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.0729	-58.01	-13.00	45.01	Vertical
119.0990	-60.41	-13.00	47.41	Vertical
719.2195	-61.50	-13.00	48.50	Vertical
3813.5271	-58.29	-13.00	45.29	Vertical
5720.0907	-48.74	-13.00	35.74	Vertical
17993.4998	-40.91	-13.00	27.91	Vertical
46.7333	-59.25	-13.00	46.25	Horizontal
242.7801	-66.92	-13.00	53.92	Horizontal
818.1644	-60.75	-13.00	47.75	Horizontal
3817.0272	-51.10	-13.00	38.10	Horizontal
5726.0909	-55.65	-13.00	42.65	Horizontal
16388.4463	-44.70	-13.00	31.70	Horizontal

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
48.3824	-57.78	-13.00	44.78	Vertical
119.9720	-60.70	-13.00	47.70	Vertical
639.8695	-63.10	-13.00	50.10	Vertical
1779.7560	-57.32	-13.00	44.32	Vertical
2581.9164	-50.17	-13.00	37.17	Vertical
9806.7936	-52.33	-13.00	39.33	Vertical

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46.8788	-56.47	-13.00	43.47	Horizontal
234.8257	-66.81	-13.00	53.81	Horizontal
1651.3303	-58.93	-13.00	45.93	Horizontal
2476.6953	-49.78	-13.00	36.78	Horizontal
7453.0818	-56.49	-13.00	43.49	Horizontal
9522.5841	-53.11	-13.00	40.11	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.4609	-58.46	-13.00	45.46	Vertical
117.2074	-62.53	-13.00	49.53	Vertical
398.7639	-66.90	-13.00	53.90	Vertical
1767.3535	-57.94	-13.00	44.94	Vertical
2689.9380	-51.01	-13.00	38.01	Vertical
9893.8298	-52.22	-13.00	39.22	Vertical
45.9088	-58.27	-13.00	45.27	Horizontal
231.5276	-66.82	-13.00	53.82	Horizontal
639.1420	-62.88	-13.00	49.88	Horizontal
2512.3025	-50.47	-13.00	37.47	Horizontal
3636.0879	-60.00	-13.00	47.00	Horizontal
9334.2778	-52.98	-13.00	39.98	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.6620	-58.08	-13.00	45.08	Vertical
116.7223	-62.62	-13.00	49.62	Vertical
683.9582	-62.71	-13.00	49.71	Vertical
1700.1400	-58.93	-13.00	45.93	Vertical
2702.7405	-51.20	-13.00	38.20	Vertical
9328.6776	-52.46	-13.00	39.46	Vertical
48.5764	-58.25	-13.00	45.25	Horizontal

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227.7444	-67.63	-13.00	54.63	Horizontal
620.7110	-63.20	-13.00	50.20	Horizontal
1690.9382	-58.48	-13.00	45.48	Horizontal
2536.3073	-50.78	-13.00	37.78	Horizontal
9292.7431	-52.62	-13.00	39.62	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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	0.04	0.000022	±2.5	PASS
Band2	9262	VN	NT	-0.62	-0.000335	±2.5	PASS
Band2	9262	VH	NT	0.42	0.000227	±2.5	PASS
Band2	9400	VL	NT	-0.46	-0.000245	±2.5	PASS
Band2	9400	VN	NT	-0.60	-0.000319	±2.5	PASS
Band2	9400	VH	NT	-0.69	-0.000367	±2.5	PASS
Band2	9538	VL	NT	-4.70	-0.002464	±2.5	PASS
Band2	9538	VN	NT	-4.93	-0.002584	±2.5	PASS
Band2	9538	VH	NT	-4.63	-0.002427	±2.5	PASS
Band5	4132	VL	NT	1.60	0.001936	±2.5	PASS
Band5	4132	VN	NT	1.38	0.001670	±2.5	PASS
Band5	4132	VH	NT	1.66	0.002009	±2.5	PASS
Band5	4182	VL	NT	-0.14	-0.000167	±2.5	PASS
Band5	4182	VN	NT	0.04	0.000048	±2.5	PASS
Band5	4182	VH	NT	-0.16	-0.000191	±2.5	PASS
Band5	4233	VL	NT	-2.23	-0.002634	±2.5	PASS
Band5	4233	VN	NT	-2.21	-0.002610	±2.5	PASS
Band5	4233	VH	NT	-2.07	-0.002445	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	0.82	0.000443	±2.5	PASS
Band2	9262	NV	-20	1.17	0.000632	±2.5	PASS
Band2	9262	NV	-10	1.62	0.000875	±2.5	PASS
Band2	9262	NV	0	1.57	0.000848	±2.5	PASS
Band2	9262	NV	10	1.62	0.000875	±2.5	PASS
Band2	9262	NV	20	2.05	0.001107	±2.5	PASS
Band2	9262	NV	30	2.14	0.001155	±2.5	PASS

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Band2	9262	NV	40	2.45	0.001323	±2.5	PASS
Band2	9262	NV	50	2.40	0.001296	±2.5	PASS
Band2	9400	NV	-30	-1.03	-0.000548	±2.5	PASS
Band2	9400	NV	-20	-0.60	-0.000319	±2.5	PASS
Band2	9400	NV	-10	-0.90	-0.000479	±2.5	PASS
Band2	9400	NV	0	-0.64	-0.000340	±2.5	PASS
Band2	9400	NV	10	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	20	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	30	-0.69	-0.000367	±2.5	PASS
Band2	9400	NV	40	-0.66	-0.000351	±2.5	PASS
Band2	9400	NV	50	-0.59	-0.000314	±2.5	PASS
Band2	9538	NV	-30	-4.74	-0.002485	±2.5	PASS
Band2	9538	NV	-20	-4.58	-0.002401	±2.5	PASS
Band2	9538	NV	-10	-4.81	-0.002521	±2.5	PASS
Band2	9538	NV	0	-4.91	-0.002574	±2.5	PASS
Band2	9538	NV	10	-4.67	-0.002448	±2.5	PASS
Band2	9538	NV	20	-5.05	-0.002647	±2.5	PASS
Band2	9538	NV	30	-5.18	-0.002715	±2.5	PASS
Band2	9538	NV	40	-4.89	-0.002563	±2.5	PASS
Band2	9538	NV	50	-4.73	-0.002480	±2.5	PASS
Band5	4132	NV	-30	1.68	0.002033	±2.5	PASS
Band5	4132	NV	-20	1.69	0.002045	±2.5	PASS
Band5	4132	NV	-10	1.76	0.002130	±2.5	PASS
Band5	4132	NV	0	1.65	0.001997	±2.5	PASS
Band5	4132	NV	10	1.57	0.001900	±2.5	PASS
Band5	4132	NV	20	1.81	0.002190	±2.5	PASS
Band5	4132	NV	30	1.77	0.002142	±2.5	PASS
Band5	4132	NV	40	1.69	0.002045	±2.5	PASS
Band5	4132	NV	50	1.72	0.002081	±2.5	PASS
Band5	4182	NV	-30	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	-20	-0.07	-0.000084	±2.5	PASS
Band5	4182	NV	-10	-0.15	-0.000179	±2.5	PASS
Band5	4182	NV	0	-0.10	-0.000120	±2.5	PASS
Band5	4182	NV	10	-0.18	-0.000215	±2.5	PASS
Band5	4182	NV	20	-0.20	-0.000239	±2.5	PASS
Band5	4182	NV	30	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	40	-0.27	-0.000323	±2.5	PASS

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Band5	4182	NV	50	-0.33	-0.000395	±2.5	PASS
Band5	4233	NV	-30	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	-20	-2.02	-0.002386	±2.5	PASS
Band5	4233	NV	-10	-2.03	-0.002398	±2.5	PASS
Band5	4233	NV	0	-2.17	-0.002563	±2.5	PASS
Band5	4233	NV	10	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	20	-2.25	-0.002658	±2.5	PASS
Band5	4233	NV	30	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	40	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	50	-2.26	-0.002670	±2.5	PASS

The End

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