Appendix B

WCDMA Band II & IV & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result for Down Ant

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.91	22.70	33.00	PASS
Band II	9400	23.97	22.76	33.00	PASS
Band II	9538	24.05	22.84	33.00	PASS
Band IV	4132	23.97	22.81	30.00	PASS
Band IV	4182	23.88	22.72	30.00	PASS
Band IV	4233	23.80	22.64	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.46	15.75	38.45	PASS
Band V	4182	23.46	15.75	38.45	PASS
Band V	4233	23.49	15.78	38.45	PASS

1.2. Test Result for Up Ant

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.28	16.63	38.45	PASS
Band V	4182	23.46	16.81	38.45	PASS
Band V	4233	23.41	16.76	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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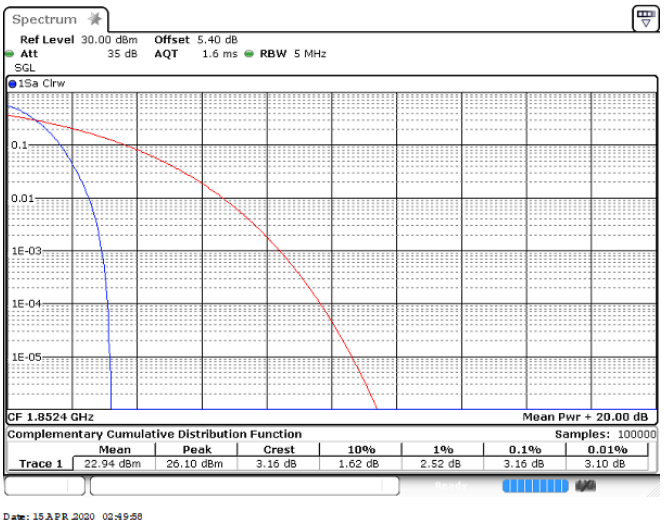
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.16	13.00	PASS
Band II	9400	2.96	13.00	PASS
Band II	9538	2.52	13.00	PASS
Band IV	1312	3.58	13.00	PASS
Band IV	1413	3.65	13.00	PASS
Band IV	1513	3.65	13.00	PASS
Band V	4132	3.10	13.00	PASS
Band V	4182	2.62	13.00	PASS
Band V	4233	2.93	13.00	PASS

2.2. Test Plots

Band II_9262



Band II_9400

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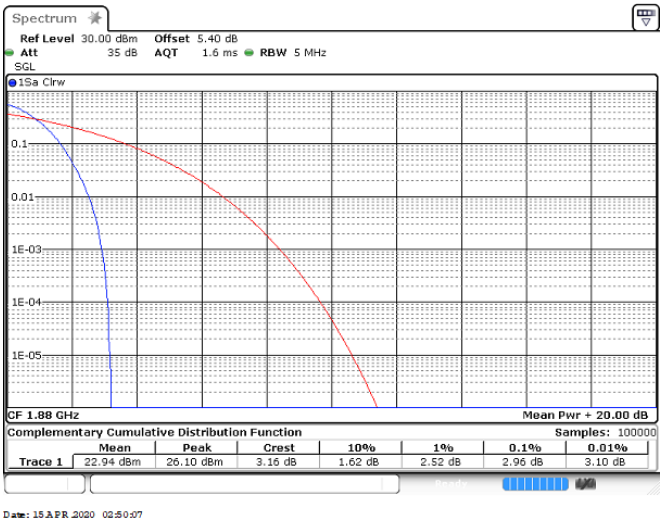
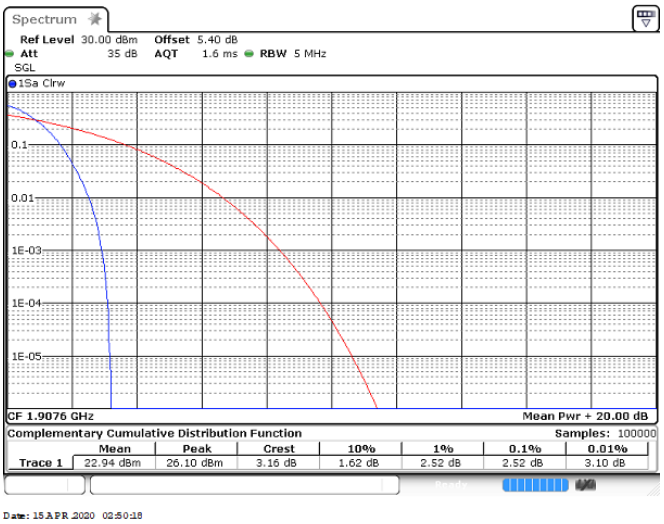


Band II_9538



Band IV_1312

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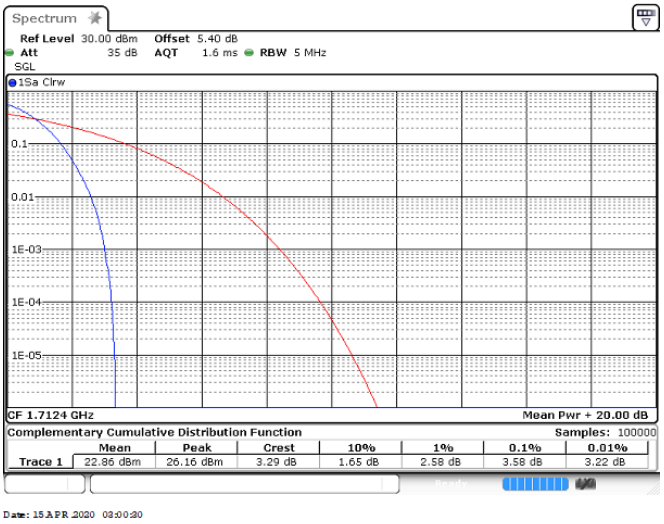
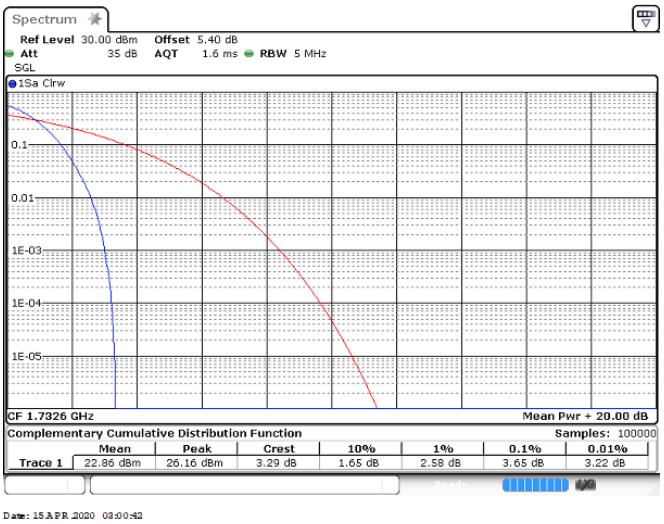


Band IV_1413



Band IV_1513

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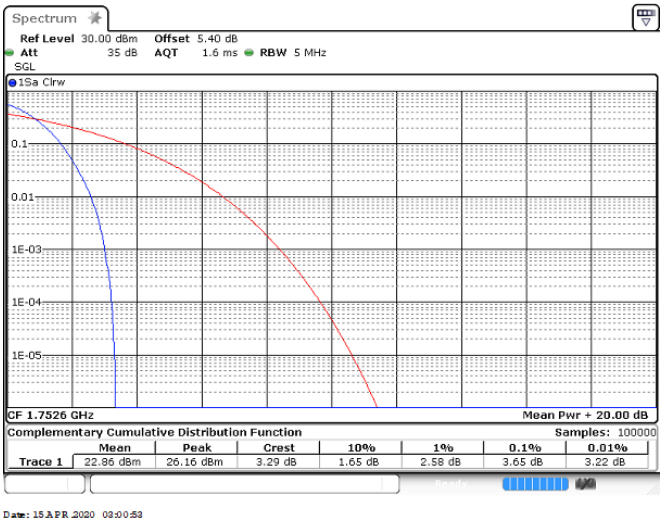
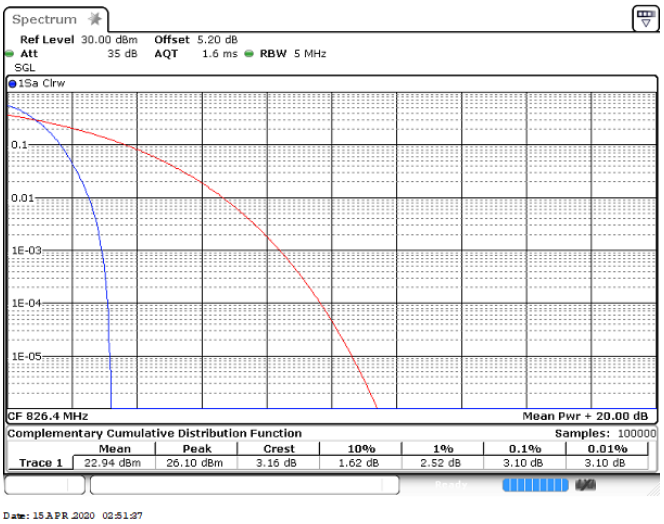


Band V_4132



Band V_4182

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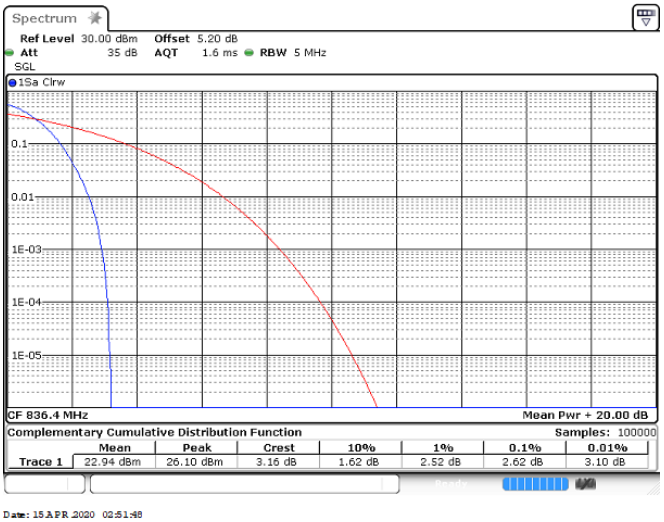

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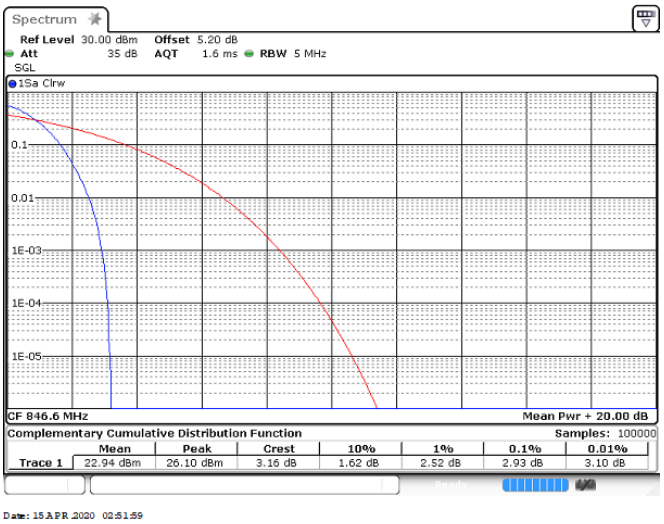

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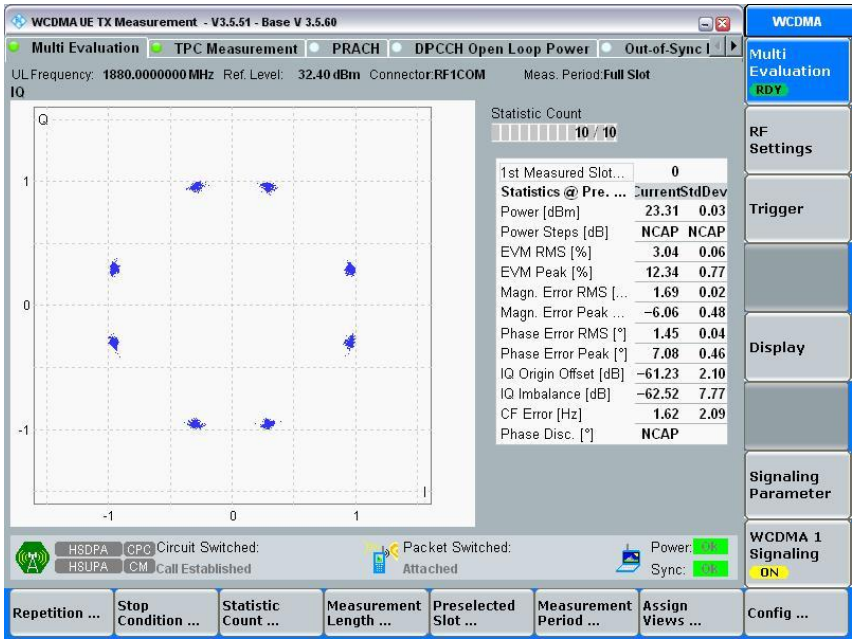
3. Modulation Characteristics

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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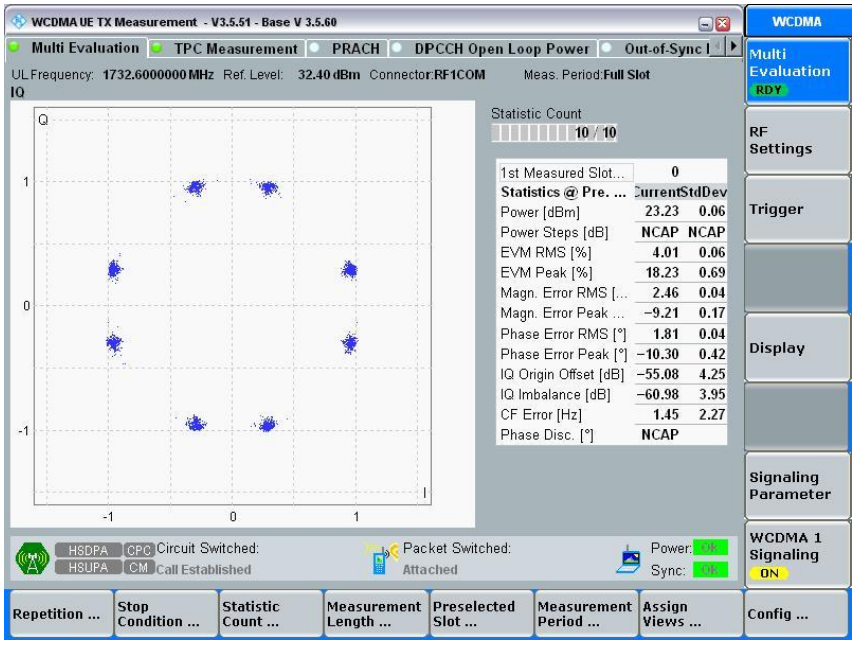
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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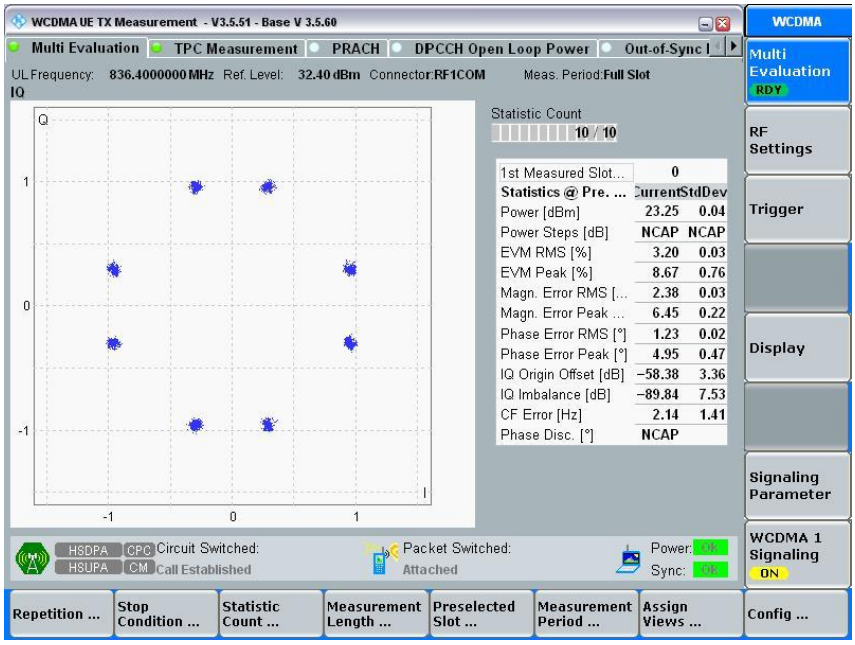
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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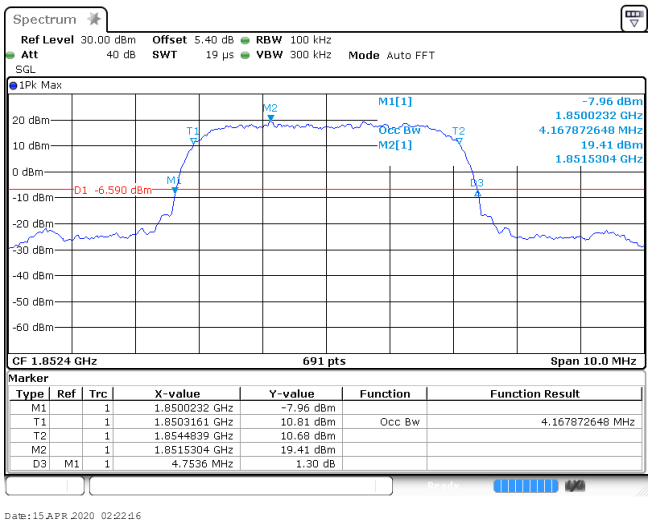
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4754	---	PASS
Band II	9400	4153.4	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4138.9	4725	---	PASS
Band IV	1413	4167.9	4725	---	PASS
Band IV	1513	4167.9	4754	---	PASS
Band V	4132	4153.4	4725	---	PASS
Band V	4182	4153.4	4725	---	PASS
Band V	4233	4153.4	4710	---	PASS

4.2. Test Plots



Band II_9262

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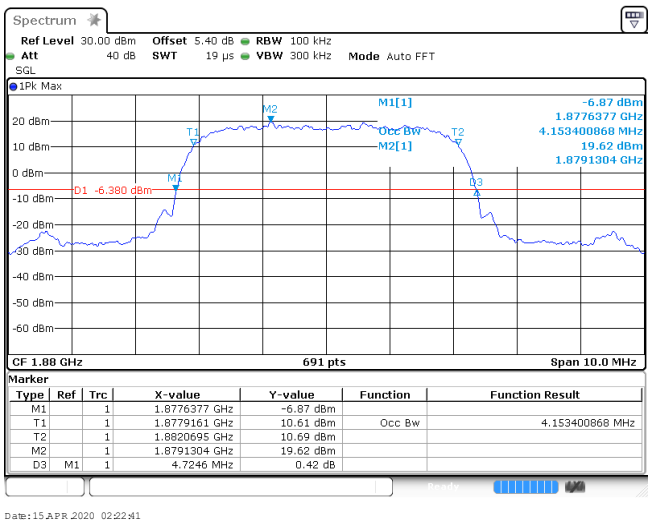
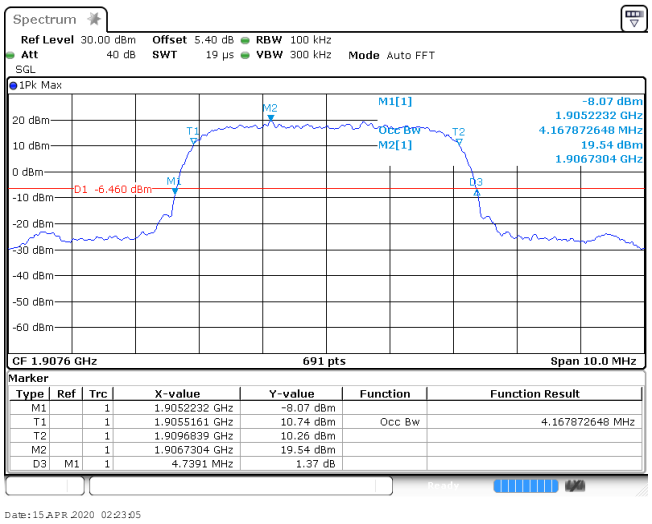


Band II_9400



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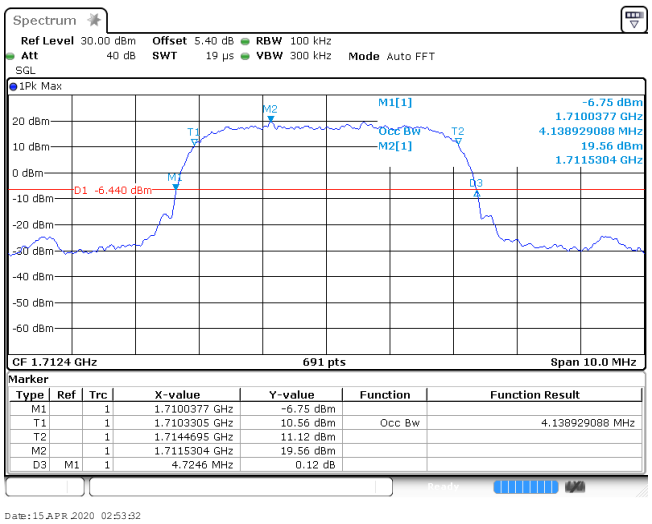
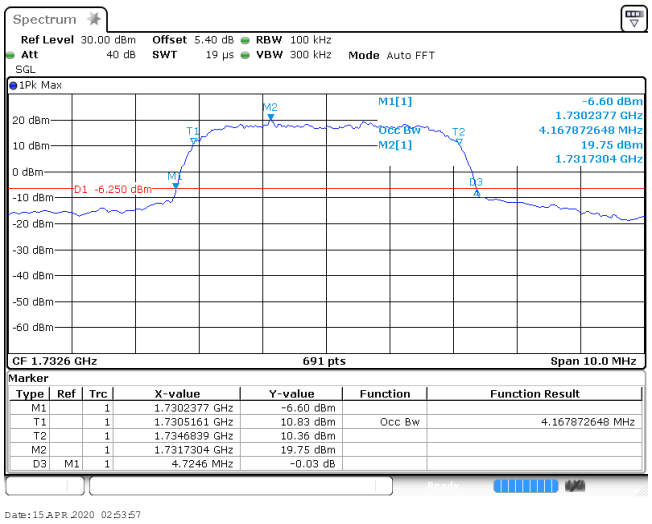


Band IV_1312



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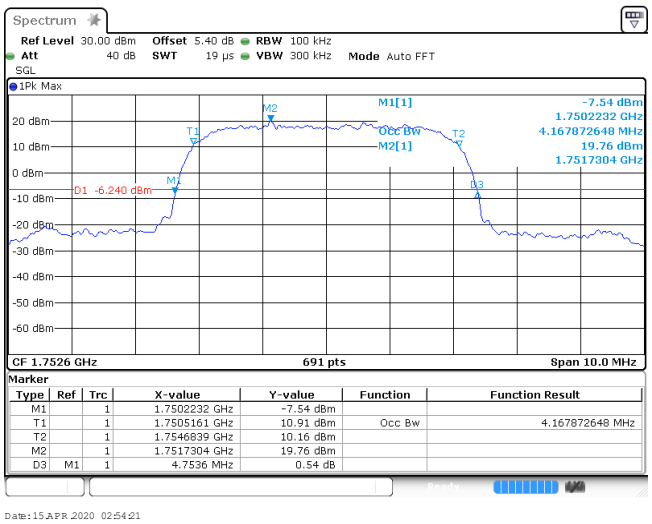
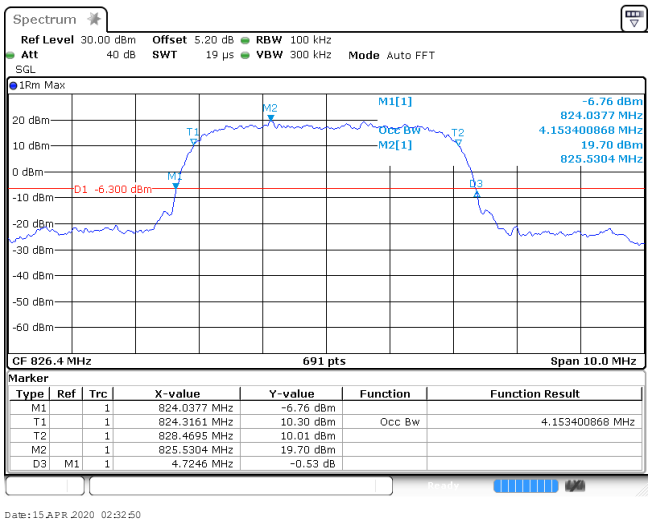


Band IV_1513



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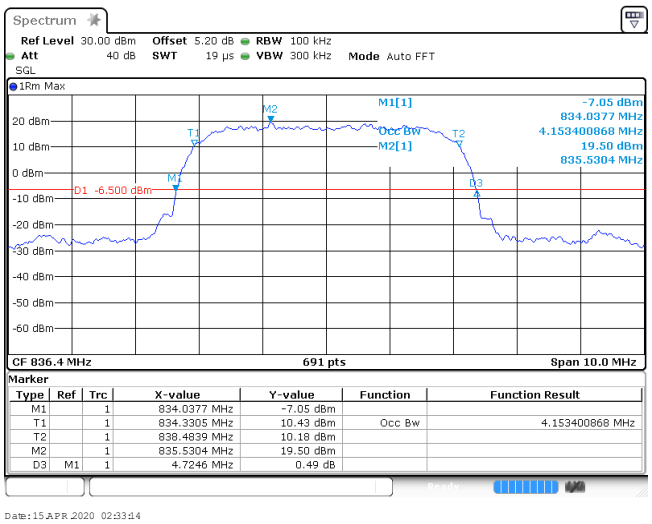
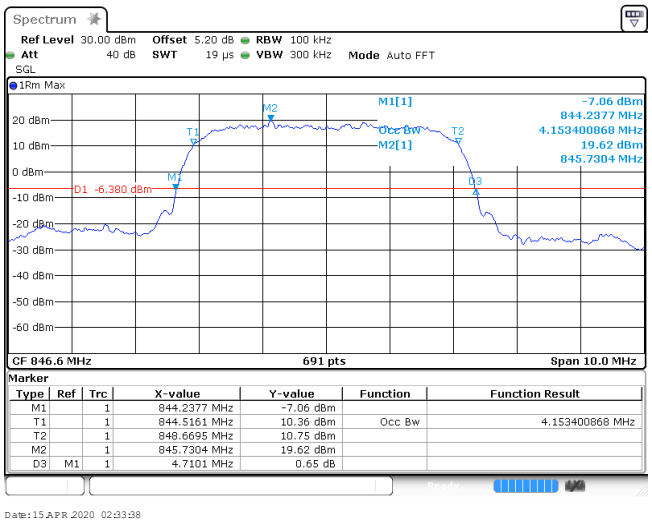


Band V_4182



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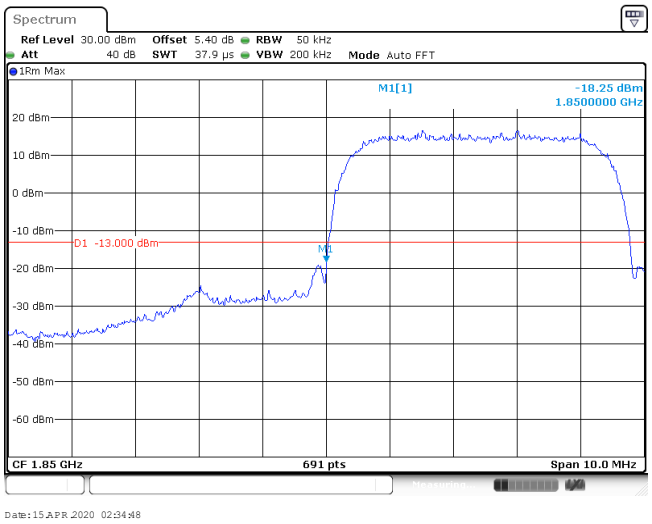
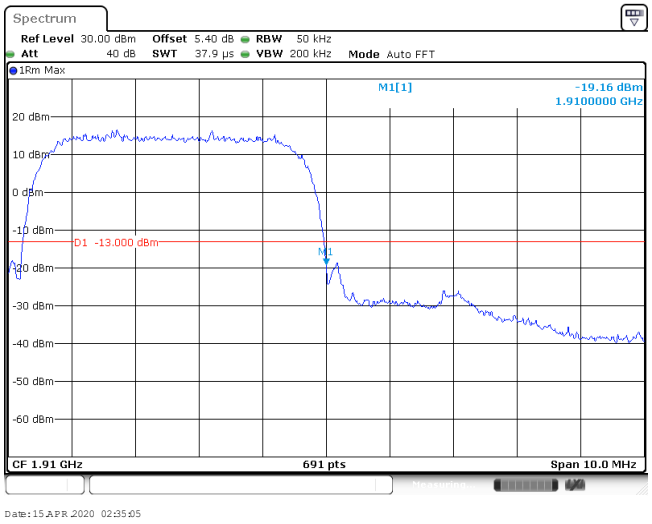
5. Band Edge Compliance

5.1. Test Plots



Band II_9262



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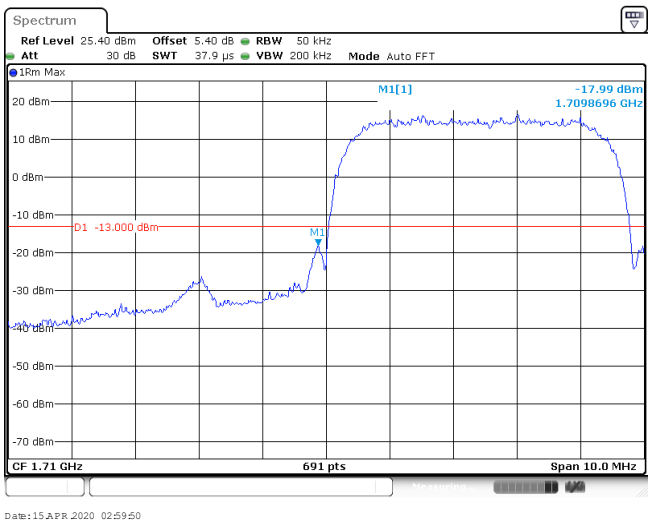
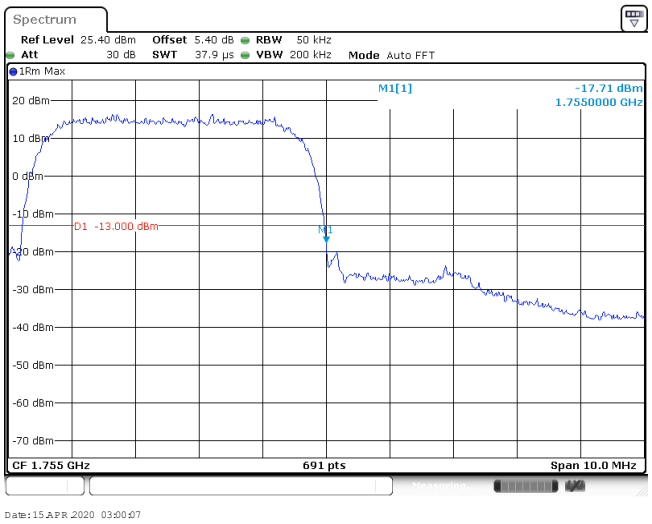


Band IV_1312



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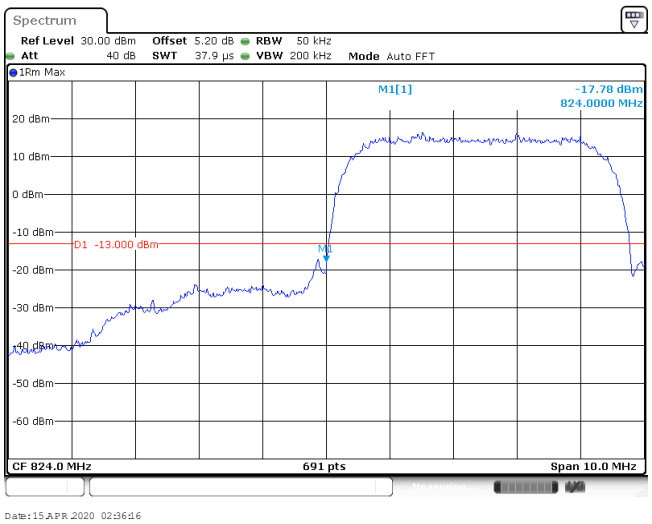
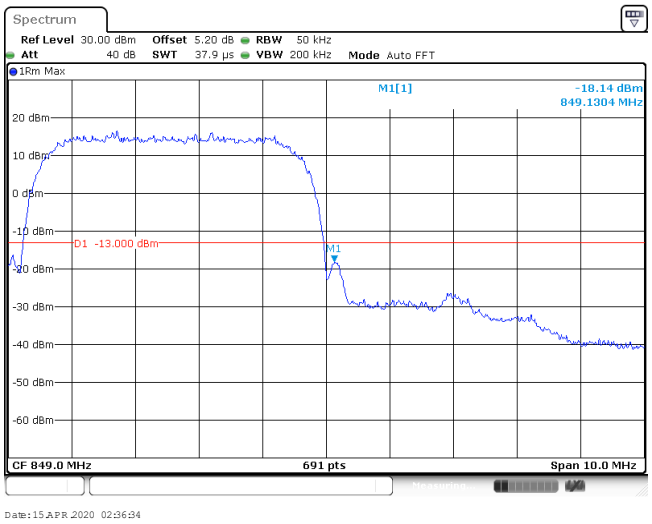


Band V_4132



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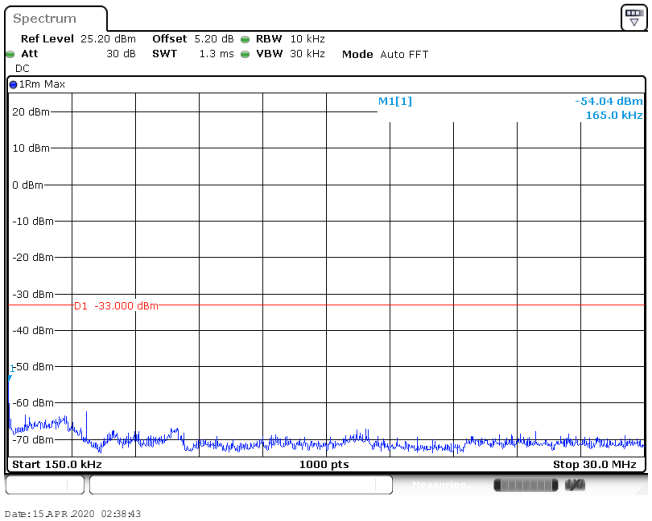
6. Spurious Emission at Antenna Terminal

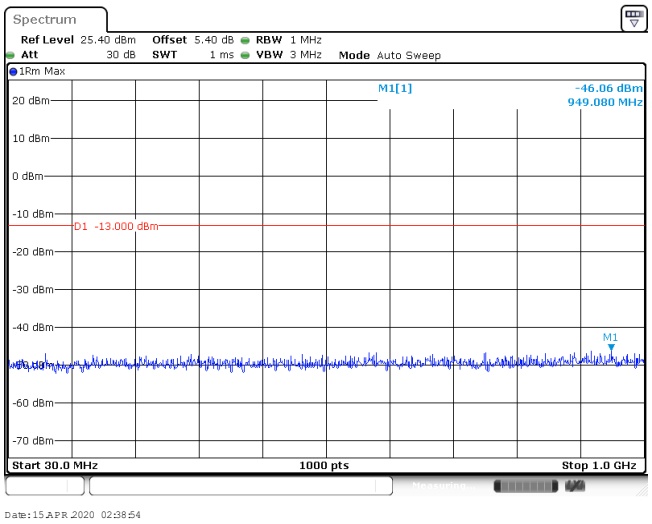
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k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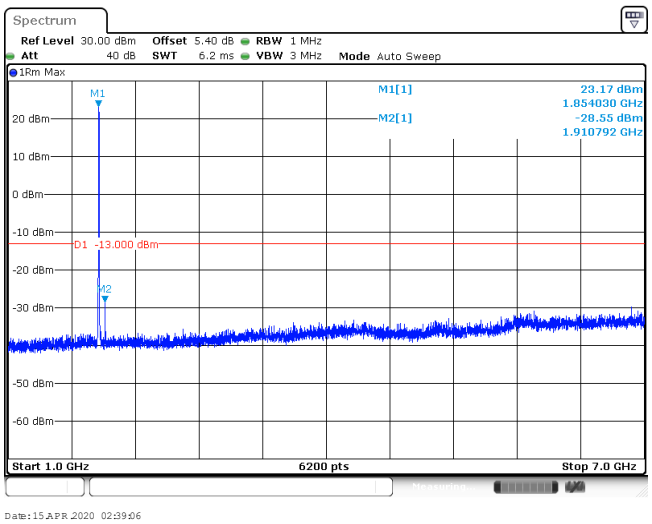

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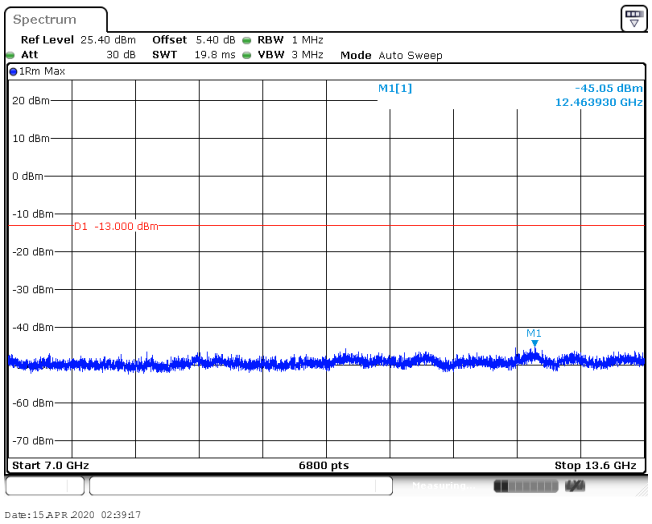

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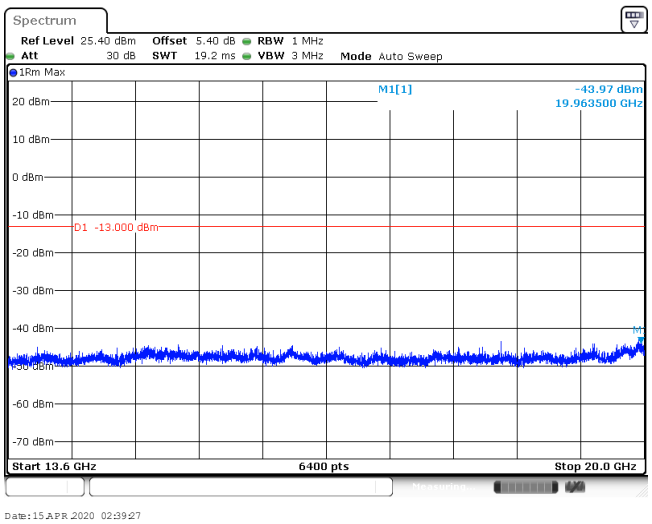

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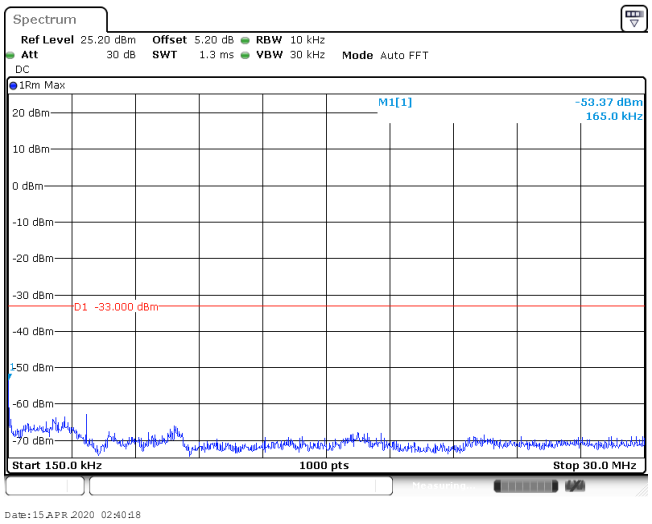

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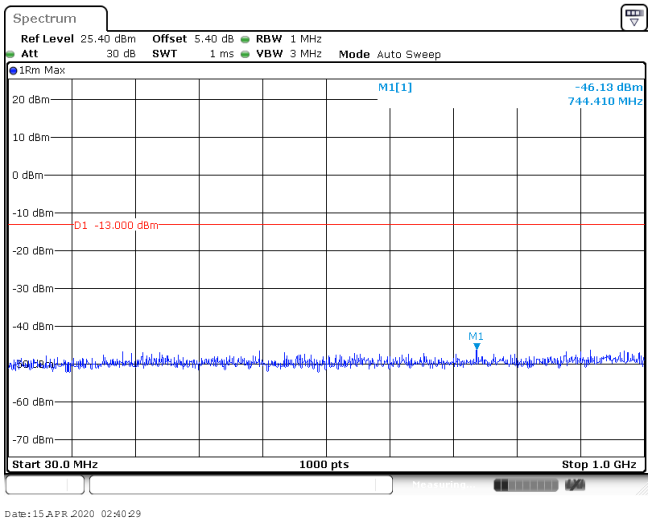

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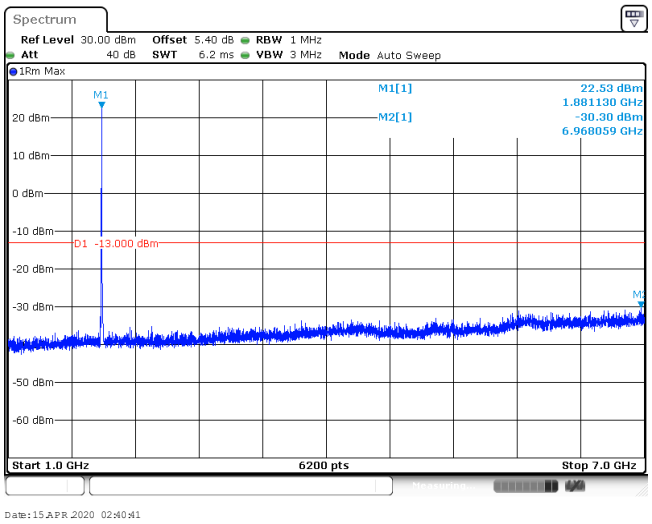

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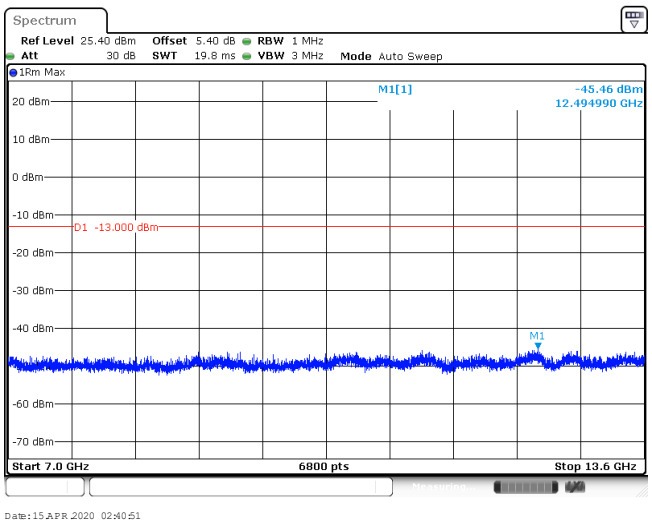

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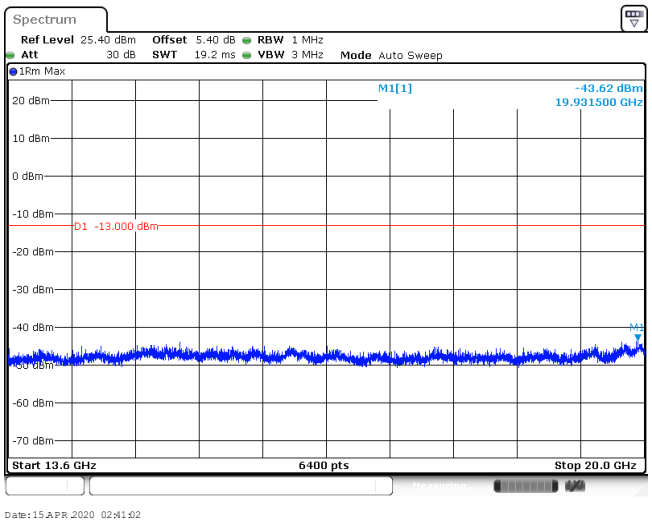

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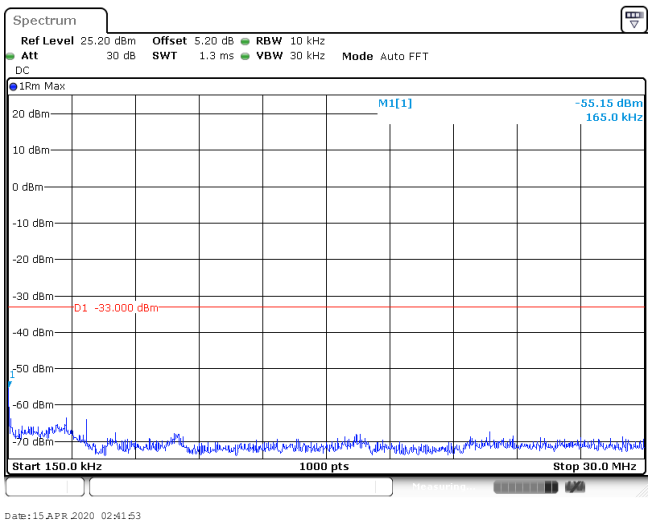

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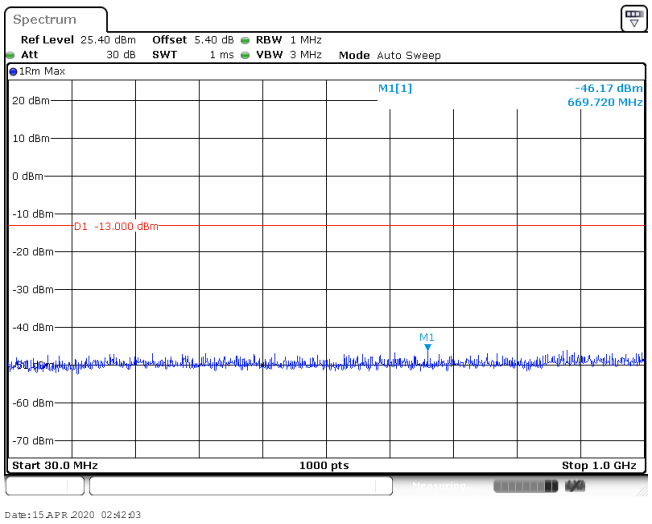

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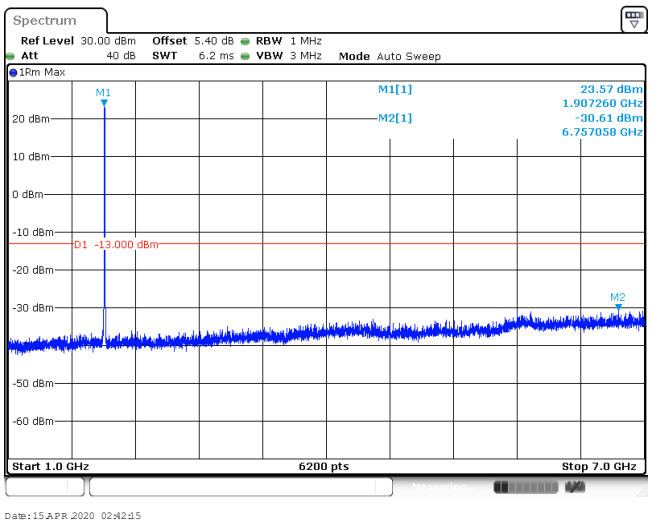

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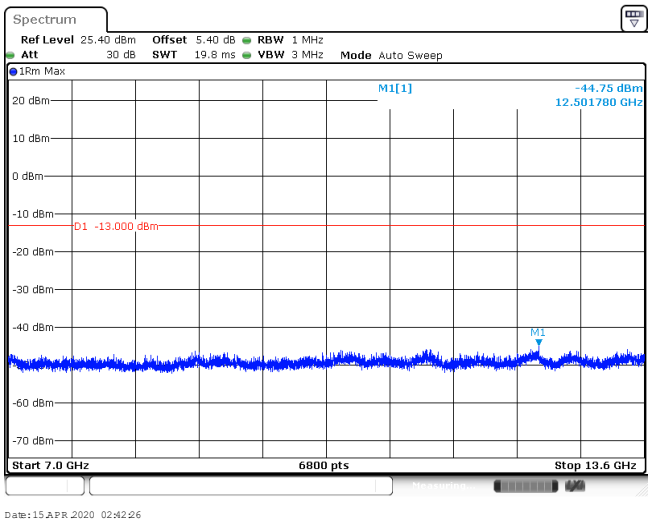

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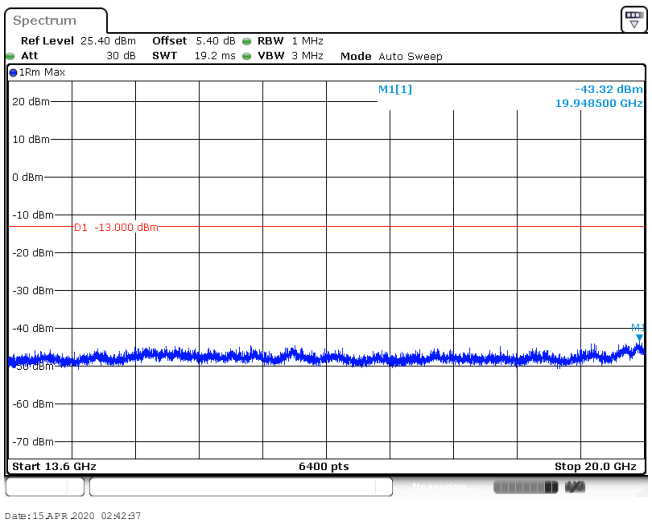

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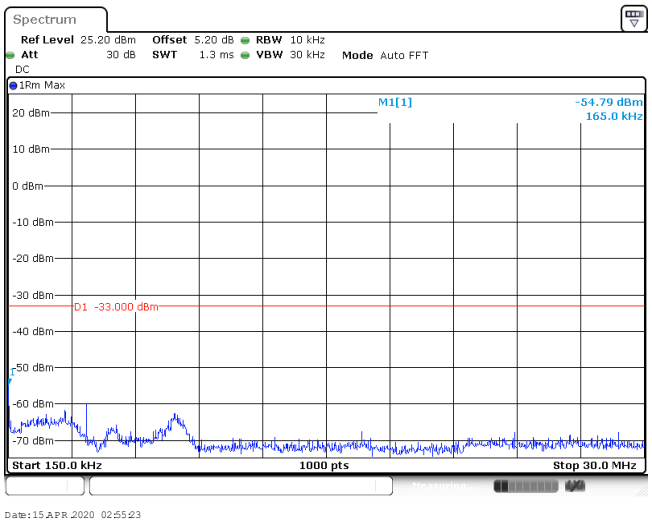

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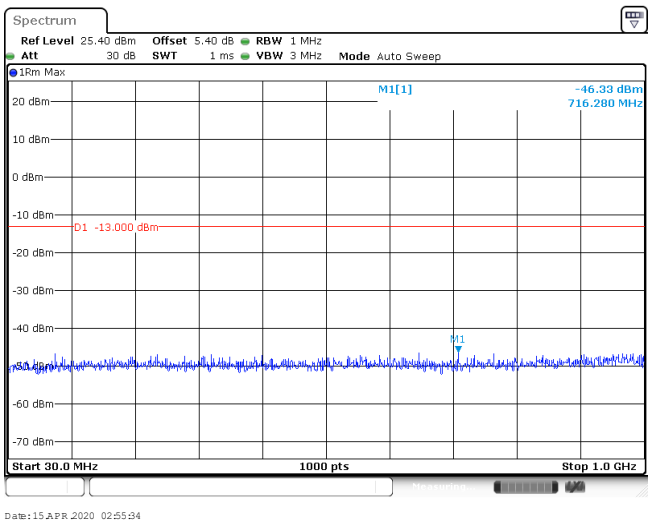

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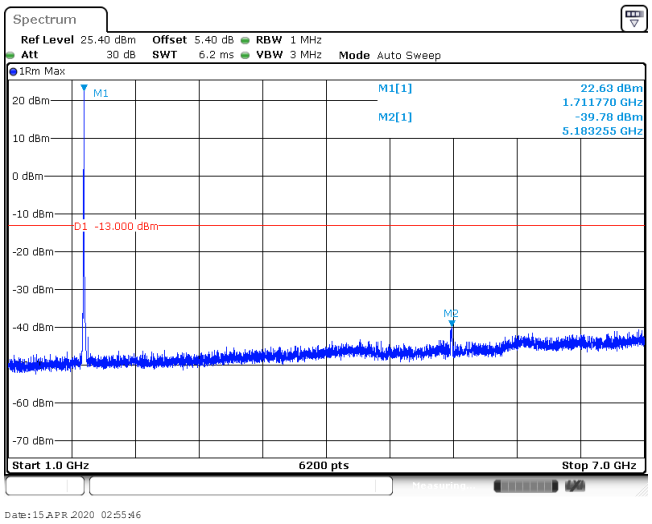

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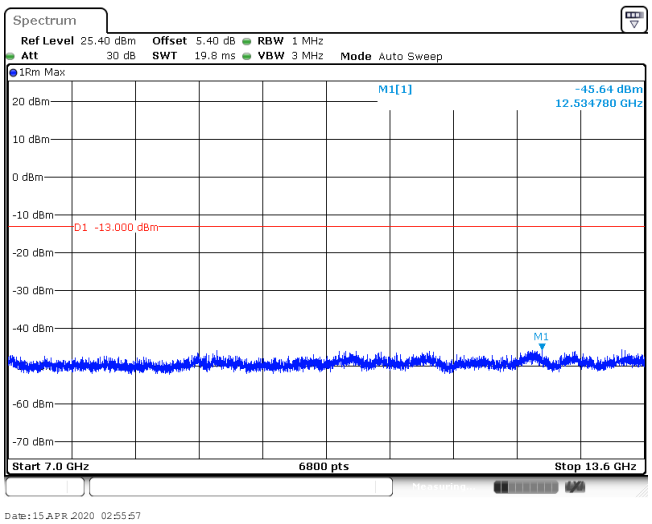

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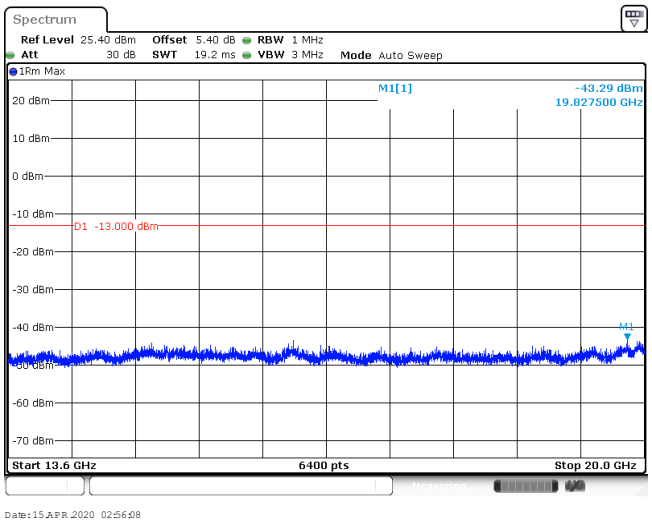

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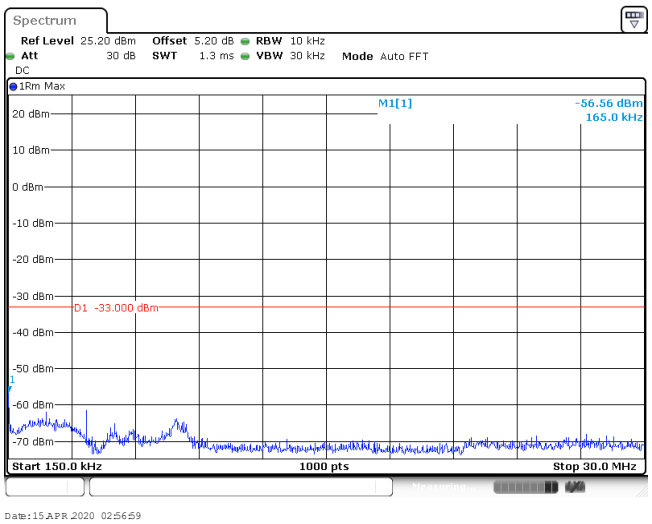

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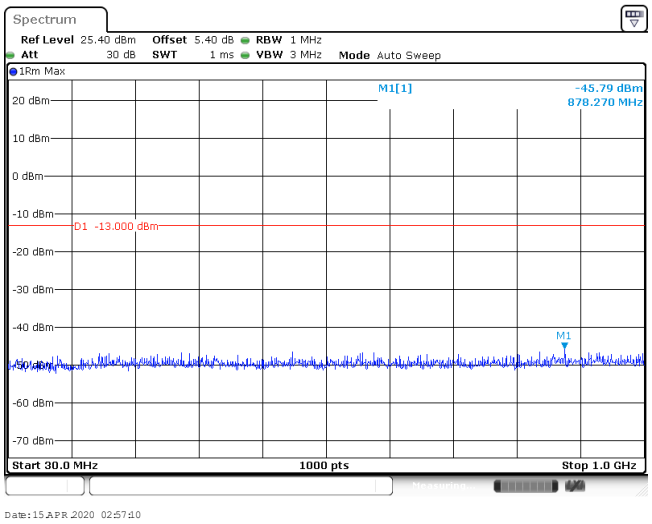

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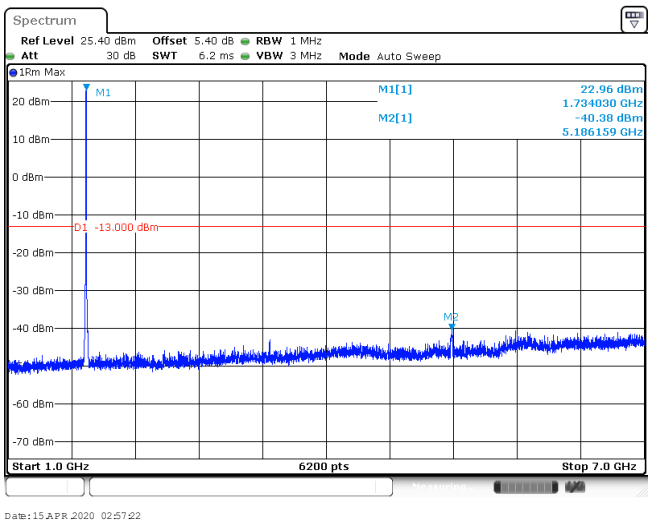

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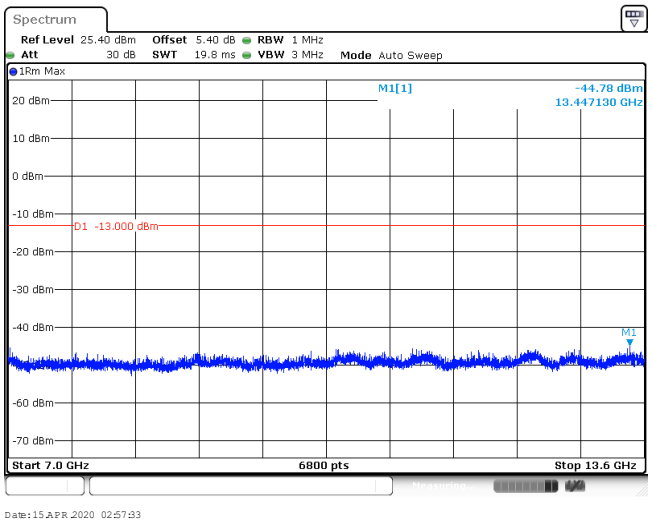

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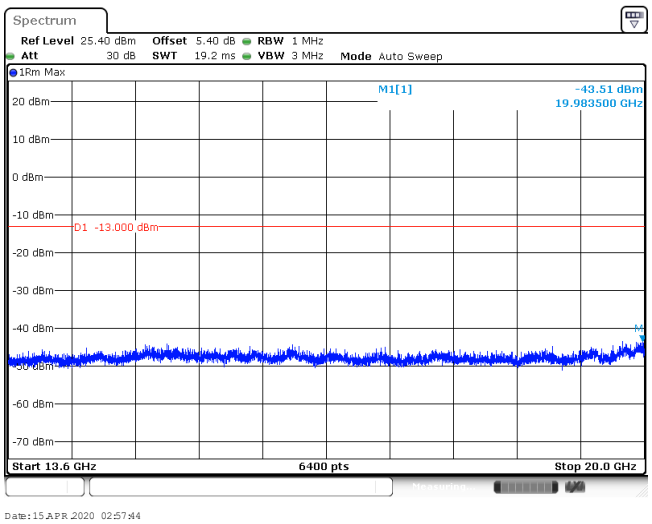

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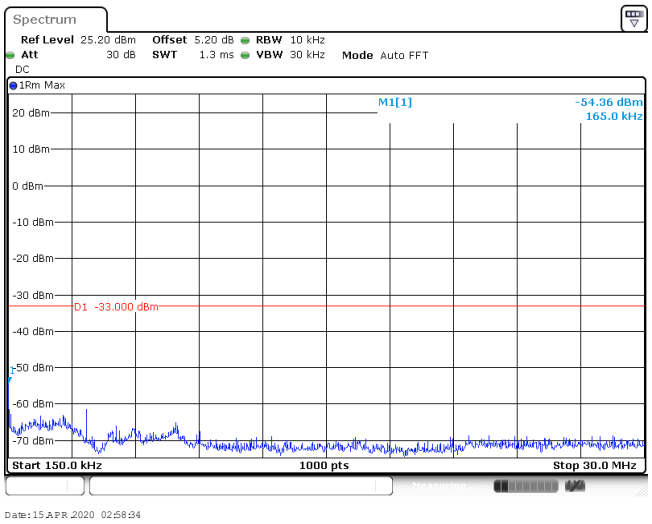

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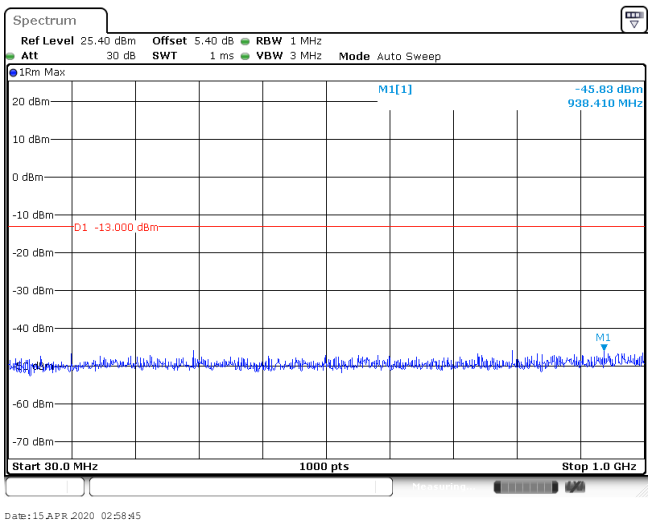

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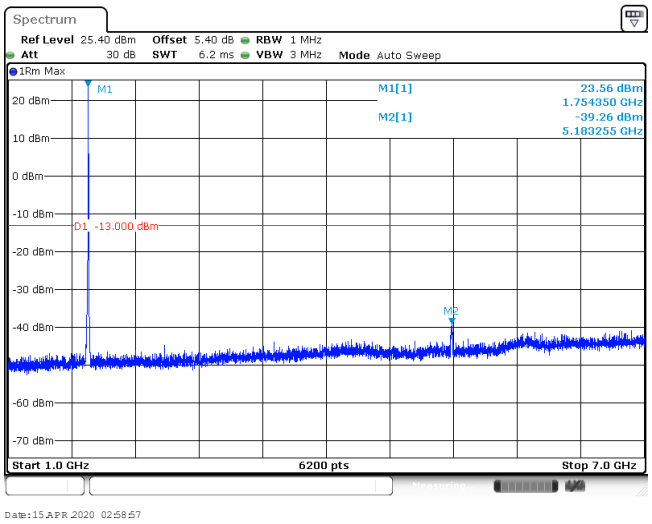

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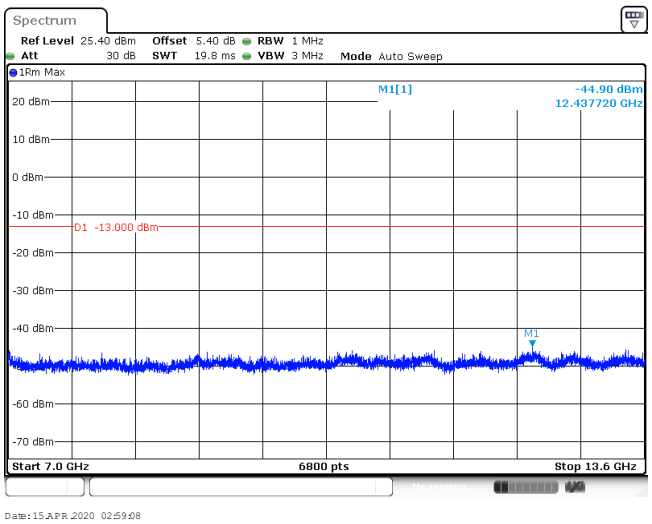

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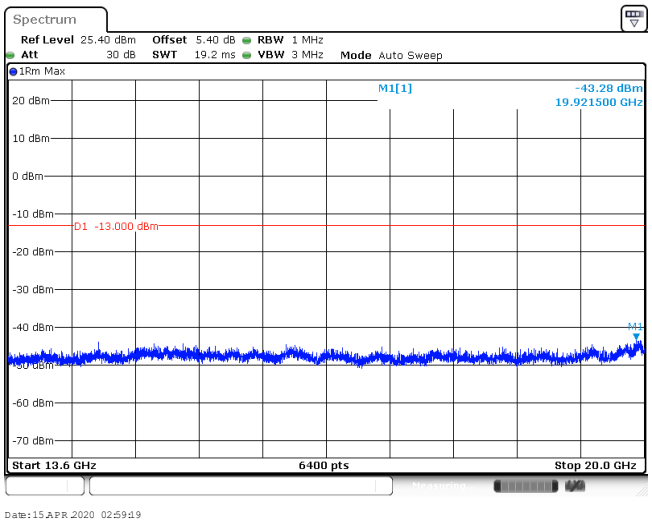

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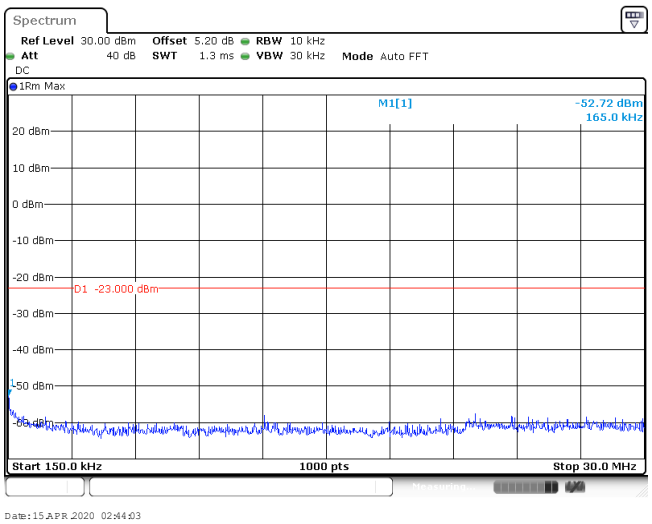

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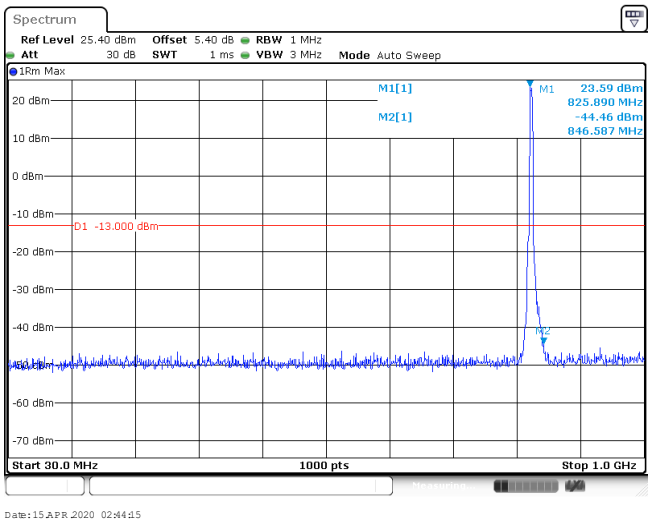

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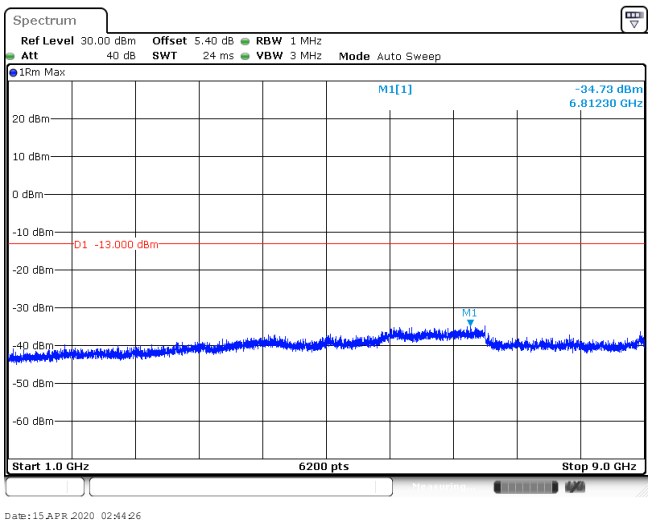

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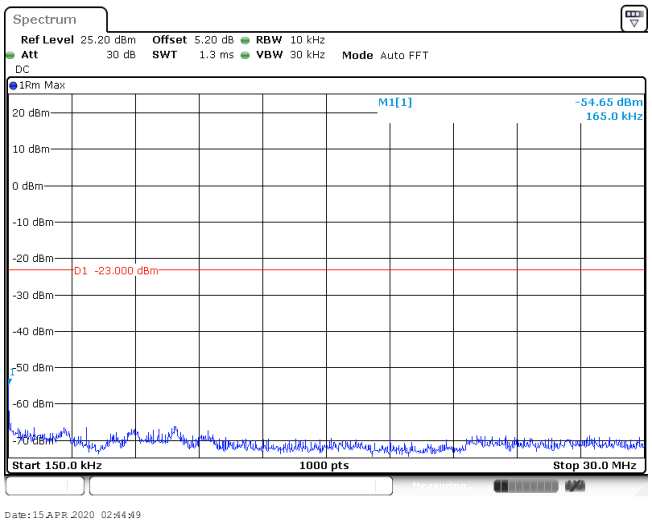

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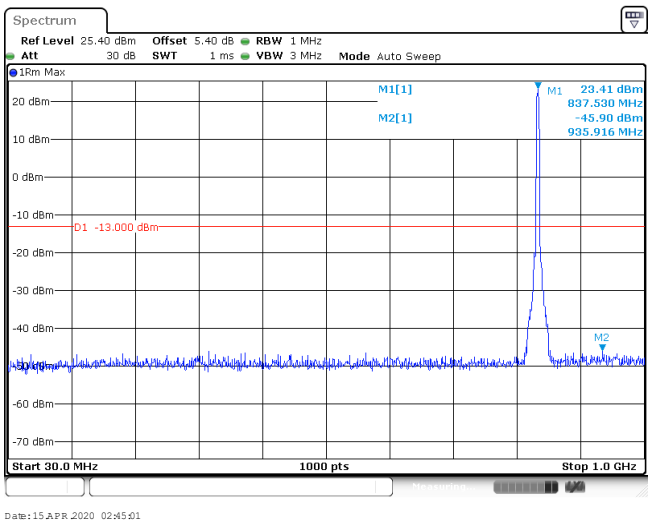

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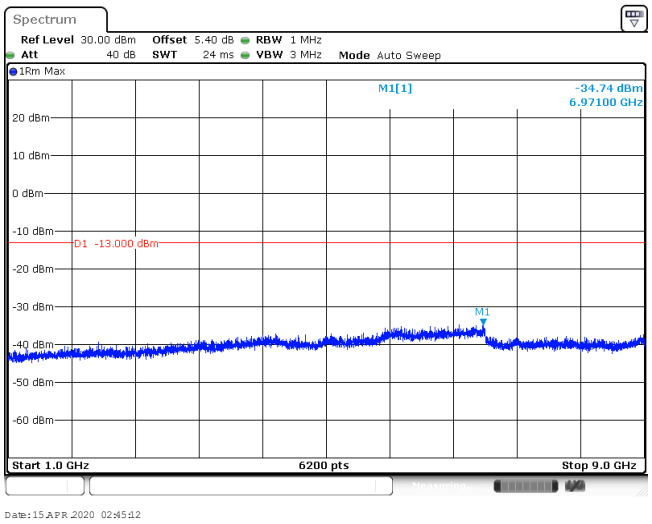

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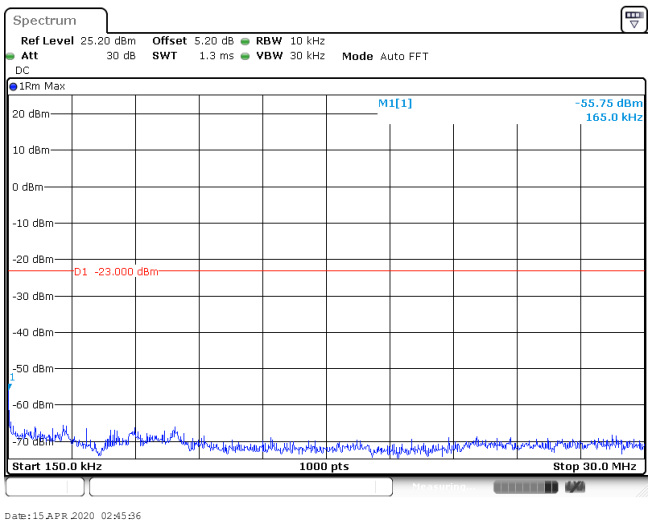

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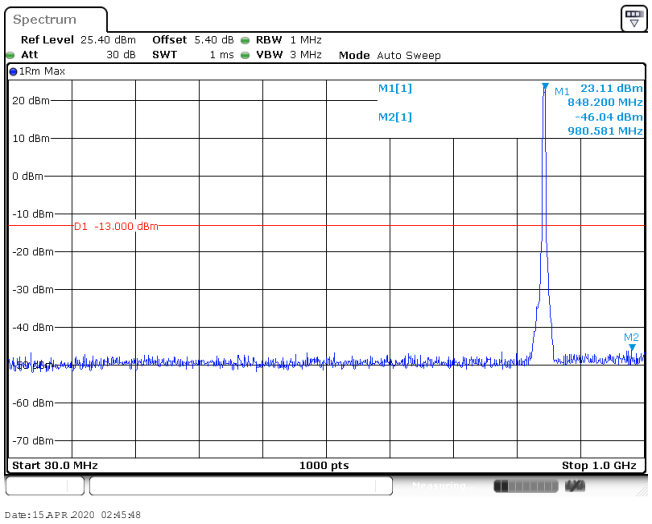

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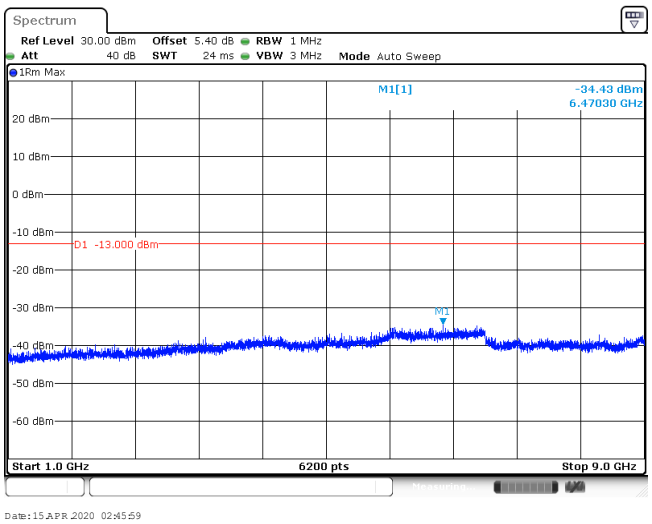

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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II (Down Ant)

7.1.1.Test Mode =WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.8535	-65.14	-13.00	52.14	Vertical
612.3686	-62.70	-13.00	49.70	Vertical
2702.7405	-36.55	-13.00	23.55	Vertical
7450.6484	-55.45	-13.00	42.45	Vertical
14479.3826	-47.52	-13.00	34.52	Vertical
17996.9999	-40.00	-13.00	27.00	Vertical
45.4238	-63.96	-13.00	50.96	Horizontal
231.3336	-67.86	-13.00	54.86	Horizontal
595.9263	-63.12	-13.00	50.12	Horizontal
2701.1402	-35.45	-13.00	22.45	Horizontal
7465.1488	-55.84	-13.00	42.84	Horizontal
16394.4465	-43.99	-13.00	30.99	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.4099	-65.08	-13.00	52.08	Vertical
599.3215	-64.00	-13.00	51.00	Vertical
2702.7405	-36.53	-13.00	23.53	Vertical
7463.6488	-55.97	-13.00	42.97	Vertical
14697.3899	-47.43	-13.00	34.43	Vertical
17995.4999	-39.97	-13.00	26.97	Vertical
41.6891	-64.42	-13.00	51.42	Horizontal
230.9941	-67.85	-13.00	54.85	Horizontal

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609.0220	-63.01	-13.00	50.01	Horizontal
2694.3389	-35.47	-13.00	22.47	Horizontal
7408.1469	-56.13	-13.00	43.13	Horizontal
16387.4462	-43.34	-13.00	30.34	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
120.8450	-64.10	-13.00	51.10	Vertical
602.8136	-63.95	-13.00	50.95	Vertical
2659.1318	-37.33	-13.00	24.33	Vertical
7367.1456	-55.92	-13.00	42.92	Vertical
14488.8830	-47.12	-13.00	34.12	Vertical
17999.5000	-39.67	-13.00	26.67	Vertical
39.9915	-64.61	-13.00	51.61	Horizontal
243.4107	-68.03	-13.00	55.03	Horizontal
573.0332	-62.87	-13.00	49.87	Horizontal
2690.3381	-35.38	-13.00	22.38	Horizontal
7367.1456	-56.19	-13.00	43.19	Horizontal
16399.4466	-43.86	-13.00	30.86	Horizontal

7.2. Test Band = WCDMA Band IV (Down Ant)

7.2.1.Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.0290	-62.63	-13.00	49.63	Vertical
571.6751	-61.84	-13.00	48.84	Vertical
2688.7377	-31.96	-13.00	18.96	Vertical
7328.1443	-54.03	-13.00	41.03	Vertical
14499.3833	-41.93	-13.00	28.93	Vertical
17999.0000	-33.86	-13.00	20.86	Vertical

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40.9130	-62.71	-13.00	49.71	Horizontal
580.8905	-59.94	-13.00	46.94	Horizontal
2699.9400	-30.79	-13.00	17.79	Horizontal
7438.6480	-53.29	-13.00	40.29	Horizontal
16397.4466	-35.53	-13.00	22.53	Horizontal
17998.5000	-38.80	-13.00	25.80	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.5326	-62.42	-13.00	49.42	Vertical
590.3485	-61.10	-13.00	48.10	Vertical
2694.3389	-32.17	-13.00	19.17	Vertical
7453.1484	-53.53	-13.00	40.53	Vertical
14693.8898	-41.48	-13.00	28.48	Vertical
17997.9999	-34.35	-13.00	21.35	Vertical
39.9430	-63.24	-13.00	50.24	Horizontal
591.0761	-61.41	-13.00	48.41	Horizontal
2701.5403	-30.63	-13.00	17.63	Horizontal
7470.6490	-53.28	-13.00	40.28	Horizontal
16404.9468	-35.09	-13.00	22.09	Horizontal
17993.9998	-38.70	-13.00	25.70	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.3386	-62.00	-13.00	49.00	Vertical
593.0162	-60.95	-13.00	47.95	Vertical
2685.9372	-31.98	-13.00	18.98	Vertical
3504.0168	-58.61	-13.00	45.61	Vertical
14686.3895	-41.86	-13.00	28.86	Vertical
17997.4999	-33.74	-13.00	20.74	Vertical
45.7633	-62.39	-13.00	49.39	Horizontal

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565.0788	-61.42	-13.00	48.42	Horizontal
2697.1394	-30.66	-13.00	17.66	Horizontal
3503.5168	-56.29	-13.00	43.29	Horizontal
7413.6471	-53.77	-13.00	40.77	Horizontal
16395.4465	-35.28	-13.00	22.28	Horizontal

7.3. Test Band = WCDMA Band V (Down Ant)

7.3.1.Test Mode =WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.0889	-64.81	-13.00	51.81	Vertical
591.3186	-64.01	-13.00	51.01	Vertical
1651.3303	-59.88	-13.00	46.88	Vertical
2696.7393	-51.99	-13.00	38.99	Vertical
14489.3830	-47.48	-13.00	34.48	Vertical
17999.0000	-40.19	-13.00	27.19	Vertical
42.9501	-64.62	-13.00	51.62	Horizontal
241.0826	-68.17	-13.00	55.17	Horizontal
1654.1308	-56.90	-13.00	43.90	Horizontal
2699.5399	-50.66	-13.00	37.66	Horizontal
7357.1452	-56.04	-13.00	43.04	Horizontal
16392.4464	-44.14	-13.00	31.14	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.0661	-64.94	-13.00	51.94	Vertical
2699.1398	-51.96	-13.00	38.96	Vertical
14481.3827	-47.58	-13.00	34.58	Vertical
17999.0000	-40.11	-13.00	27.11	Vertical
9067.2022	-53.55	-13.00	40.55	Vertical

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17999.0000	-39.41	-13.00	26.41	Vertical
40.5735	-64.59	-13.00	51.59	Horizontal
239.1910	-66.75	-13.00	53.75	Horizontal
1674.5349	-56.24	-13.00	43.24	Horizontal
2701.1402	-50.52	-13.00	37.52	Horizontal
16389.4463	-43.77	-13.00	30.77	Horizontal
17994.9998	-44.45	-13.00	31.45	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
105.8093	-65.77	-13.00	52.77	Vertical
569.8805	-65.29	-13.00	52.29	Vertical
2704.3409	-51.85	-13.00	38.85	Vertical
7364.6455	-55.63	-13.00	42.63	Vertical
14482.8828	-47.43	-13.00	34.43	Vertical
17999.5000	-40.19	-13.00	27.19	Vertical
43.7747	-63.33	-13.00	50.33	Horizontal
232.6431	-68.02	-13.00	55.02	Horizontal
1694.5389	-60.56	-13.00	47.56	Horizontal
2701.1402	-50.80	-13.00	37.80	Horizontal
16388.9463	-44.22	-13.00	31.22	Horizontal
17994.4998	-45.21	-13.00	32.21	Horizontal

7.4. Test Band = WCDMA Band V (Up Ant)

7.4.1.Test Mode =WCDMA/TM1

7.4.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.9830	-72.05	-13.00	59.05	Vertical
109.8350	-64.15	-13.00	51.15	Vertical
412.9751	-66.96	-13.00	53.96	Vertical

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2850.7702	-51.83	-13.00	38.83	Vertical
9328.2109	-51.88	-13.00	38.88	Vertical
17989.9997	-40.15	-13.00	27.15	Vertical
43.2897	-64.33	-13.00	51.33	Horizontal
243.9442	-68.11	-13.00	55.11	Horizontal
1650.9302	-57.43	-13.00	44.43	Horizontal
2701.1402	-50.58	-13.00	37.58	Horizontal
7458.1486	-55.56	-13.00	42.56	Horizontal
16398.9466	-44.02	-13.00	31.02	Horizontal

7.4.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.1956	-71.54	-13.00	58.54	Vertical
110.7080	-65.32	-13.00	52.32	Vertical
366.8978	-67.93	-13.00	54.93	Vertical
3000.0000	-51.19	-13.00	38.19	Vertical
7995.6665	-55.61	-13.00	42.61	Vertical
17991.9997	-40.40	-13.00	27.40	Vertical
44.1627	-63.91	-13.00	50.91	Horizontal
233.6617	-67.54	-13.00	54.54	Horizontal
516.6733	-63.96	-13.00	50.96	Horizontal
2698.3397	-50.86	-13.00	37.86	Horizontal
8024.6675	-55.95	-13.00	42.95	Horizontal
16381.4460	-43.72	-13.00	30.72	Horizontal

7.4.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.4566	-71.67	-13.00	58.67	Vertical
109.5925	-64.45	-13.00	51.45	Vertical
414.4302	-67.53	-13.00	54.53	Vertical
1763.7528	-56.56	-13.00	43.56	Vertical

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2998.3997	-51.16	-13.00	38.16	Vertical
17993.4998	-39.76	-13.00	26.76	Vertical
47.3639	-63.88	-13.00	50.88	Horizontal
238.3179	-67.92	-13.00	54.92	Horizontal
542.3311	-65.35	-13.00	52.35	Horizontal
2701.5403	-50.74	-13.00	37.74	Horizontal
8622.1874	-56.28	-13.00	43.28	Horizontal
16389.4463	-43.79	-13.00	30.79	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

Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-10.47	-0.005650	±2.5	PASS
Band II	9262	VN	TN	-0.78	-0.000422	±2.5	PASS
Band II	9262	VH	TN	9.21	0.004970	±2.5	PASS
Band II	9400	VL	TN	-8.90	-0.004732	±2.5	PASS
Band II	9400	VN	TN	9.59	0.005101	±2.5	PASS
Band II	9400	VH	TN	4.63	0.002463	±2.5	PASS
Band II	9538	VL	TN	-8.61	-0.004515	±2.5	PASS
Band II	9538	VN	TN	-7.59	-0.003980	±2.5	PASS
Band II	9538	VH	TN	1.52	0.000798	±2.5	PASS
Band IV	1312	VL	TN	6.21	0.003629	±2.5	PASS
Band IV	1312	VN	TN	13.91	0.008123	±2.5	PASS
Band IV	1312	VH	TN	-10.99	-0.006418	±2.5	PASS
Band IV	1413	VL	TN	0.90	0.000518	±2.5	PASS
Band IV	1413	VN	TN	8.54	0.004929	±2.5	PASS
Band IV	1413	VH	TN	11.46	0.006613	±2.5	PASS
Band IV	1513	VL	TN	14.45	0.008248	±2.5	PASS
Band IV	1513	VN	TN	-4.44	-0.002534	±2.5	PASS
Band IV	1513	VH	TN	11.82	0.006746	±2.5	PASS
Band V	4132	VL	TN	-7.33	-0.008870	±2.5	PASS
Band V	4132	VN	TN	-10.27	-0.012428	±2.5	PASS
Band V	4132	VH	TN	12.02	0.014542	±2.5	PASS
Band V	4182	VL	TN	-9.65	-0.011533	±2.5	PASS
Band V	4182	VN	TN	-2.79	-0.003336	±2.5	PASS
Band V	4182	VH	TN	-14.61	-0.017465	±2.5	PASS
Band V	4233	VL	TN	13.46	0.015900	±2.5	PASS
Band V	4233	VN	TN	13.83	0.016335	±2.5	PASS
Band V	4233	VH	TN	3.86	0.004558	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	3.80	0.002052	±2.5	PASS
Band II	9262	VN	-20	11.19	0.006041	±2.5	PASS
Band II	9262	VN	-10	-8.03	-0.004332	±2.5	PASS
Band II	9262	VN	0	-7.90	-0.004263	±2.5	PASS
Band II	9262	VN	10	-6.31	-0.003407	±2.5	PASS
Band II	9262	VN	20	10.17	0.005489	±2.5	PASS
Band II	9262	VN	30	13.55	0.007314	±2.5	PASS

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Band II	9262	VN	40	10.16	0.005487	±2.5	PASS
Band II	9262	VN	50	12.80	0.006911	±2.5	PASS
Band II	9400	VN	-30	4.60	0.002445	±2.5	PASS
Band II	9400	VN	-20	12.50	0.006651	±2.5	PASS
Band II	9400	VN	-10	-7.89	-0.004198	±2.5	PASS
Band II	9400	VN	0	10.47	0.005569	±2.5	PASS
Band II	9400	VN	10	-11.87	-0.006314	±2.5	PASS
Band II	9400	VN	20	8.60	0.004573	±2.5	PASS
Band II	9400	VN	30	8.18	0.004351	±2.5	PASS
Band II	9400	VN	40	-12.34	-0.006562	±2.5	PASS
Band II	9400	VN	50	1.26	0.000668	±2.5	PASS
Band II	9538	VN	-30	-2.41	-0.001263	±2.5	PASS
Band II	9538	VN	-20	14.65	0.007680	±2.5	PASS
Band II	9538	VN	-10	7.26	0.003808	±2.5	PASS
Band II	9538	VN	0	3.54	0.001858	±2.5	PASS
Band II	9538	VN	10	-13.91	-0.007291	±2.5	PASS
Band II	9538	VN	20	11.42	0.005989	±2.5	PASS
Band II	9538	VN	30	4.10	0.002147	±2.5	PASS
Band II	9538	VN	40	-11.83	-0.006200	±2.5	PASS
Band II	9538	VN	50	3.63	0.001904	±2.5	PASS
Band IV	1312	VN	-30	-14.73	-0.008600	±2.5	PASS
Band IV	1312	VN	-20	6.92	0.004042	±2.5	PASS
Band IV	1312	VN	-10	-9.71	-0.005673	±2.5	PASS
Band IV	1312	VN	0	-14.81	-0.008646	±2.5	PASS
Band IV	1312	VN	10	-5.57	-0.003254	±2.5	PASS
Band IV	1312	VN	20	-2.26	-0.001323	±2.5	PASS
Band IV	1312	VN	30	10.97	0.006408	±2.5	PASS
Band IV	1312	VN	40	2.84	0.001658	±2.5	PASS
Band IV	1312	VN	50	-12.85	-0.007504	±2.5	PASS
Band IV	1413	VN	-30	8.58	0.004954	±2.5	PASS
Band IV	1413	VN	-20	14.97	0.008638	±2.5	PASS
Band IV	1413	VN	-10	12.22	0.007051	±2.5	PASS
Band IV	1413	VN	0	-7.58	-0.004373	±2.5	PASS
Band IV	1413	VN	10	-0.53	-0.000305	±2.5	PASS
Band IV	1413	VN	20	13.36	0.007709	±2.5	PASS
Band IV	1413	VN	30	11.73	0.006770	±2.5	PASS
Band IV	1413	VN	40	-12.82	-0.007399	±2.5	PASS
Band IV	1413	VN	50	-0.83	-0.000481	±2.5	PASS
Band IV	1513	VN	-30	9.57	0.005463	±2.5	PASS
Band IV	1513	VN	-20	9.86	0.005628	±2.5	PASS
Band IV	1513	VN	-10	-12.20	-0.006961	±2.5	PASS
Band IV	1513	VN	0	-10.14	-0.005784	±2.5	PASS
Band IV	1513	VN	10	4.11	0.002348	±2.5	PASS
Band IV	1513	VN	20	13.23	0.007549	±2.5	PASS
Band IV	1513	VN	30	5.89	0.003362	±2.5	PASS
Band IV	1513	VN	40	3.69	0.002103	±2.5	PASS
Band IV	1513	VN	50	4.02	0.002291	±2.5	PASS

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Band V	4132	VN	-30	-13.63	-0.016491	±2.5	PASS
Band V	4132	VN	-20	4.02	0.004860	±2.5	PASS
Band V	4132	VN	-10	10.40	0.012582	±2.5	PASS
Band V	4132	VN	0	-13.45	-0.016271	±2.5	PASS
Band V	4132	VN	10	-1.68	-0.002038	±2.5	PASS
Band V	4132	VN	20	-7.65	-0.009254	±2.5	PASS
Band V	4132	VN	30	-3.46	-0.004192	±2.5	PASS
Band V	4132	VN	40	-2.72	-0.003297	±2.5	PASS
Band V	4132	VN	50	-6.42	-0.007772	±2.5	PASS
Band V	4182	VN	-30	-4.91	-0.005876	±2.5	PASS
Band V	4182	VN	-20	-9.24	-0.011042	±2.5	PASS
Band V	4182	VN	-10	11.95	0.014288	±2.5	PASS
Band V	4182	VN	0	-3.92	-0.004686	±2.5	PASS
Band V	4182	VN	10	14.51	0.017347	±2.5	PASS
Band V	4182	VN	20	3.47	0.004145	±2.5	PASS
Band V	4182	VN	30	-6.85	-0.008194	±2.5	PASS
Band V	4182	VN	40	3.78	0.004521	±2.5	PASS
Band V	4182	VN	50	-3.50	-0.004187	±2.5	PASS
Band V	4233	VN	-30	-4.71	-0.005565	±2.5	PASS
Band V	4233	VN	-20	-9.32	-0.011009	±2.5	PASS
Band V	4233	VN	-10	-4.08	-0.004817	±2.5	PASS
Band V	4233	VN	0	-9.12	-0.010769	±2.5	PASS
Band V	4233	VN	10	-3.75	-0.004428	±2.5	PASS
Band V	4233	VN	20	-4.16	-0.004911	±2.5	PASS
Band V	4233	VN	30	14.19	0.016765	±2.5	PASS
Band V	4233	VN	40	1.16	0.001368	±2.5	PASS
Band V	4233	VN	50	12.96	0.015311	±2.5	PASS

The End

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