



Appendix B

WCDMA Band II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result(Down Antenna)

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.25	23.25	33.00	PASS
Band II	9400	23.27	23.27	33.00	PASS
Band II	9538	23.19	23.19	33.00	PASS
Band IV	1312	23.07	23.02	30.00	PASS
Band IV	1413	23.06	23.01	30.00	PASS
Band IV	1513	23.07	23.02	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.31	18.12	38.45	PASS
Band V	4182	23.4	18.21	38.45	PASS
Band V	4233	23.29	18.1	38.45	PASS

1.2. Test Result(Up Antenna)

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	20.72	14.12	38.45	PASS
Band V	4182	20.79	14.19	38.45	PASS
Band V	4233	20.77	14.17	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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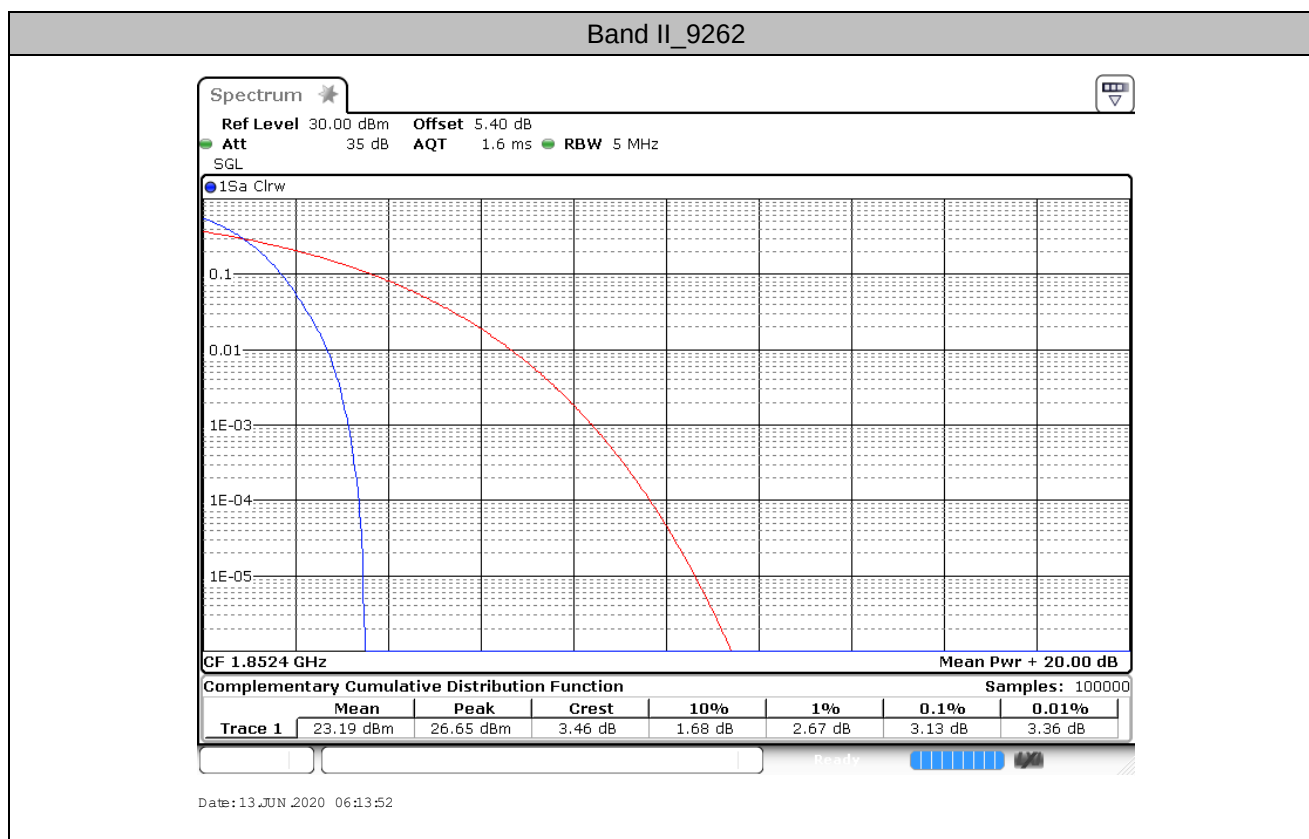


2. Peak-to-Average Ratio(CCDF)

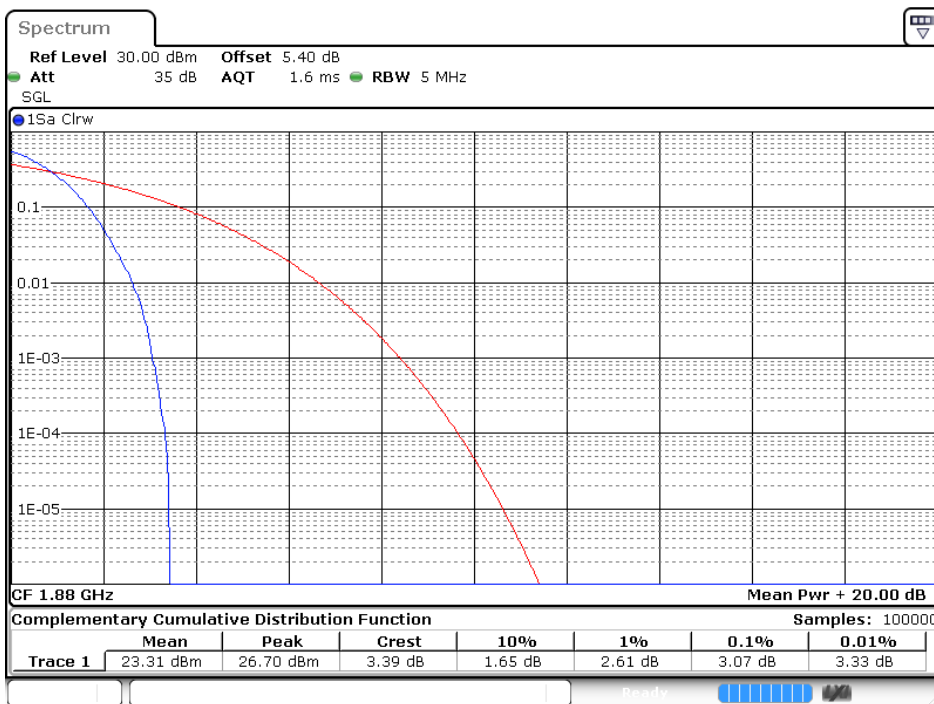
2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	3.07	13	PASS
Band II	9538	2.90	13	PASS
Band IV	1312	3.10	13	PASS
Band IV	1413	3.04	13	PASS
Band IV	1513	2.99	13	PASS
Band V	4132	3.07	13	PASS
Band V	4182	3.13	13	PASS
Band V	4233	2.81	13	PASS

2.2. Test Plots



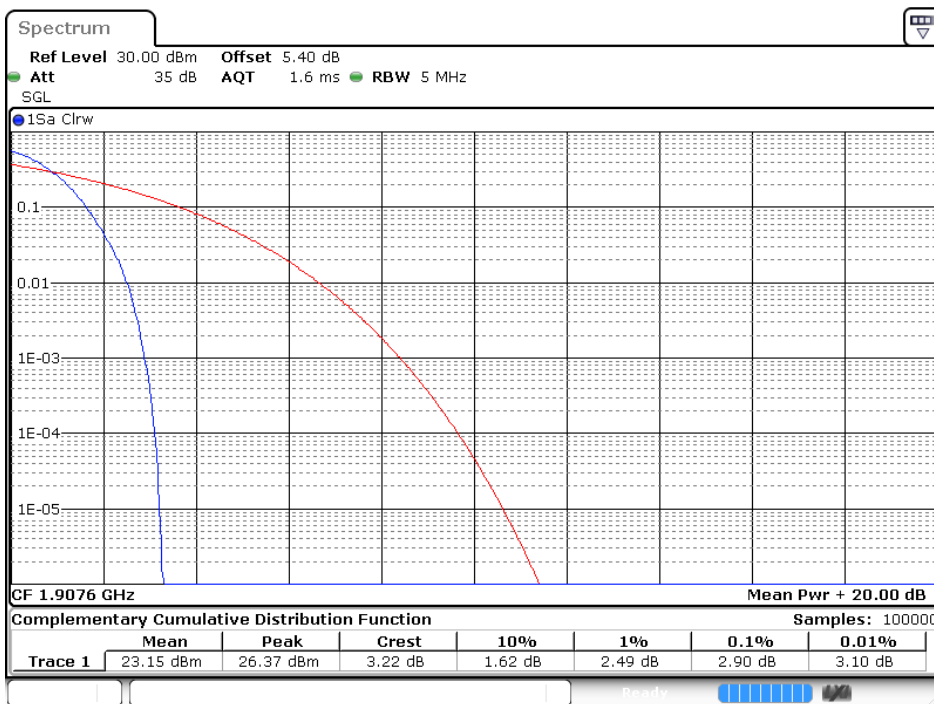
Band II_9400



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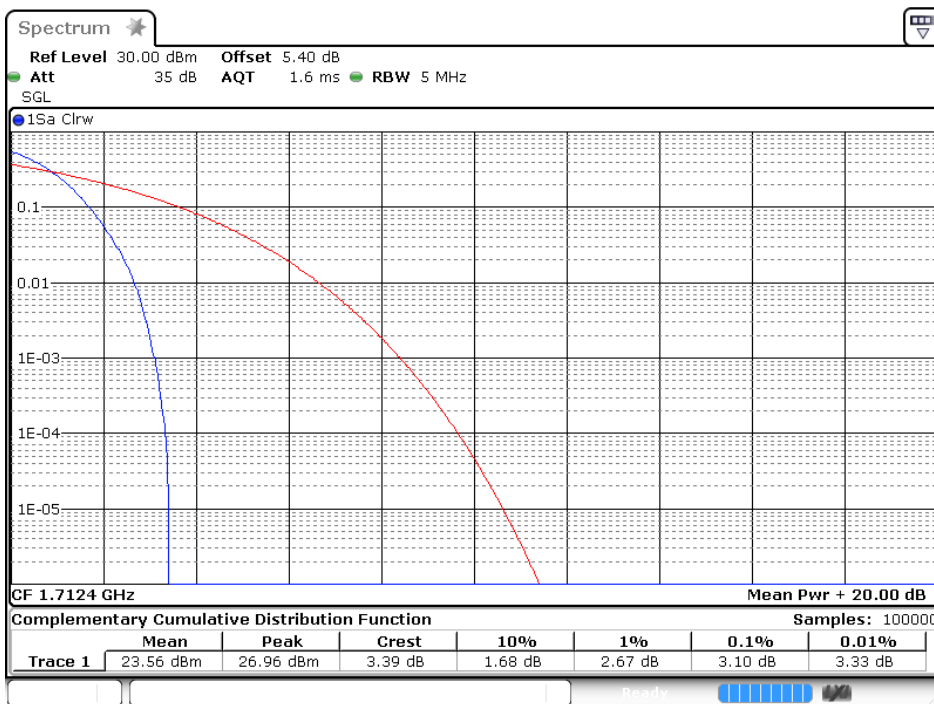
Band II_9538



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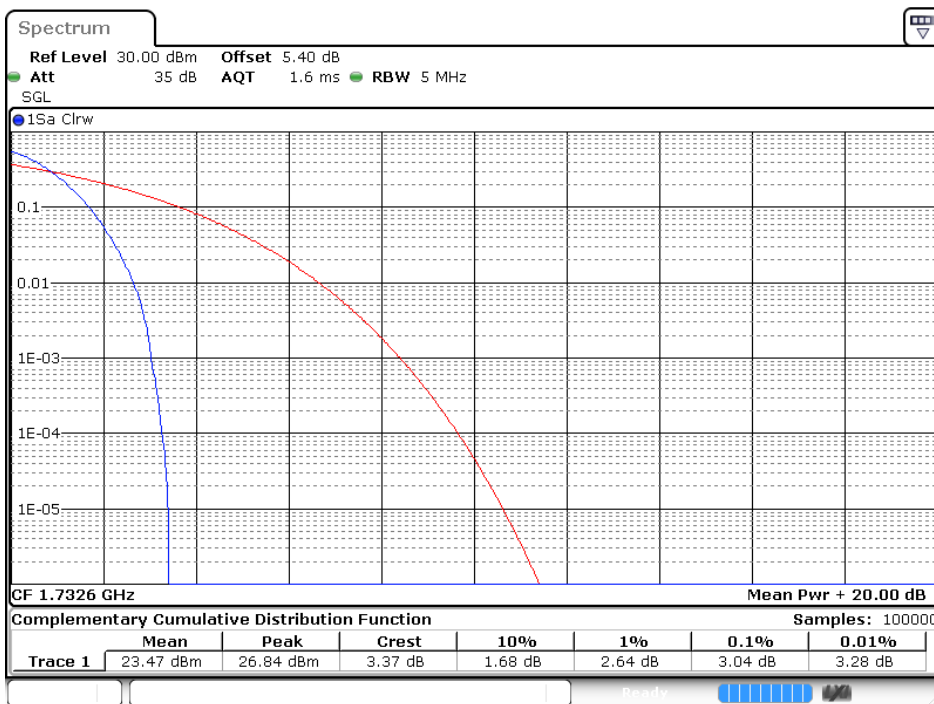
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Band IV_1413



Date: 13 JUN 2020 06:30:51



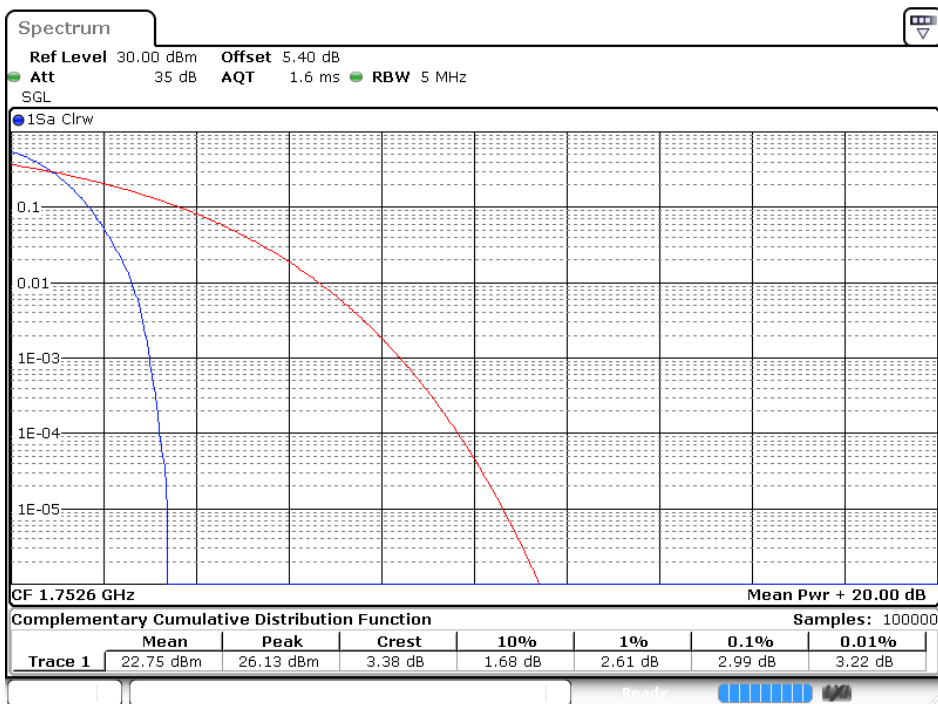
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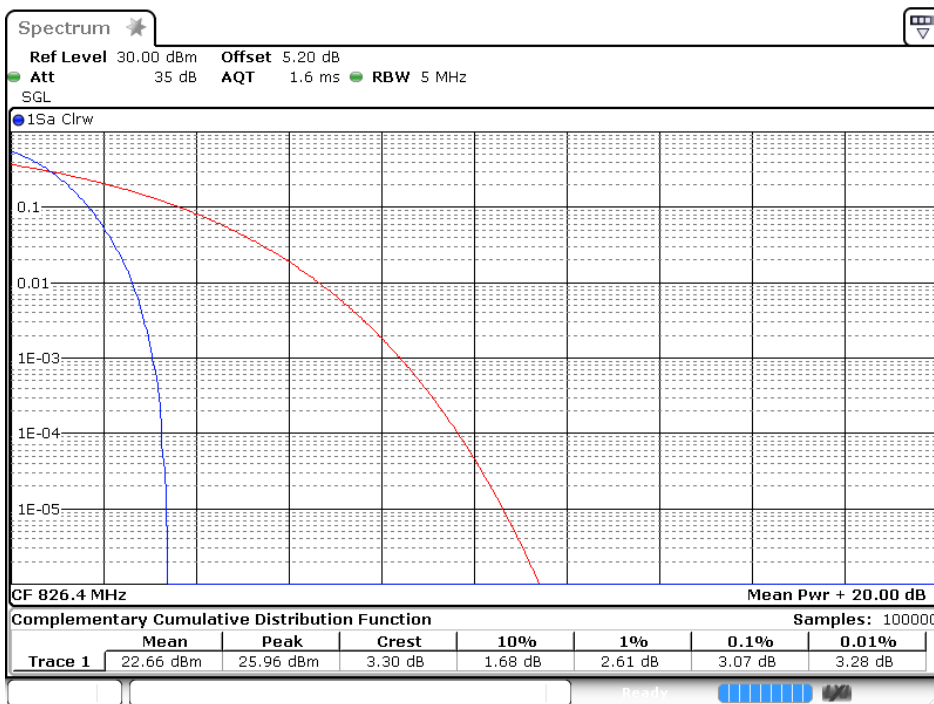
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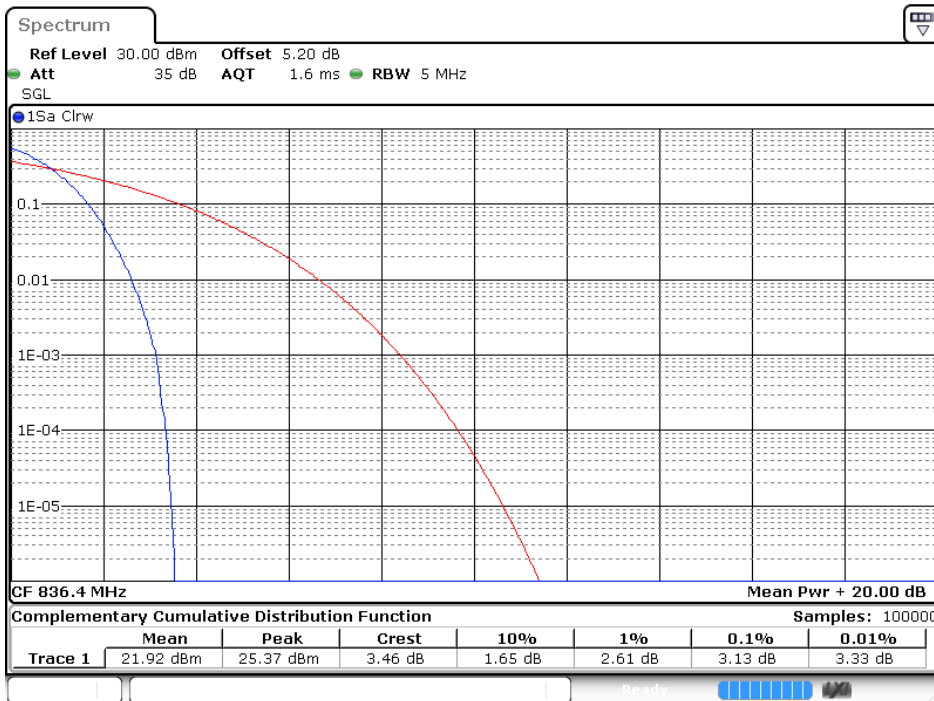
Band V_4132



Date: 13 JUN 2020 06:21:35



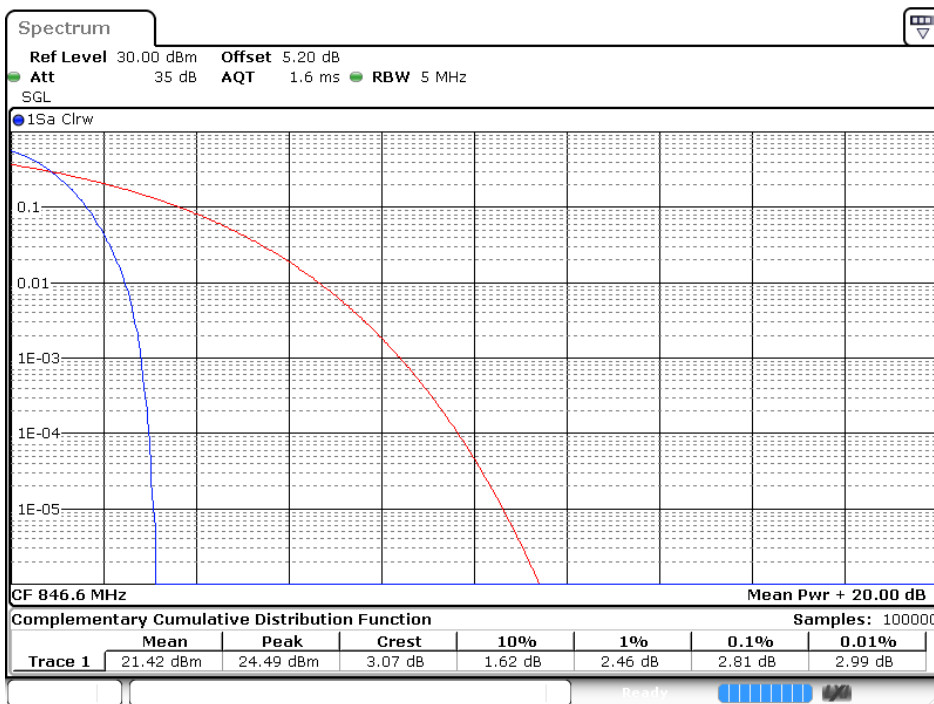
Band V_4182



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Band V_4233



Date: 13 JUN 2020 06:22:08

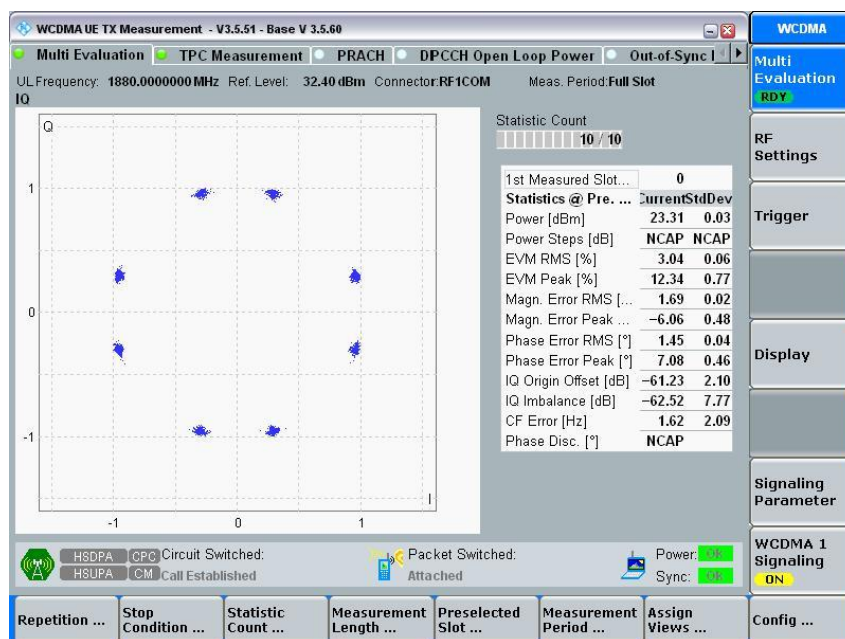


3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH

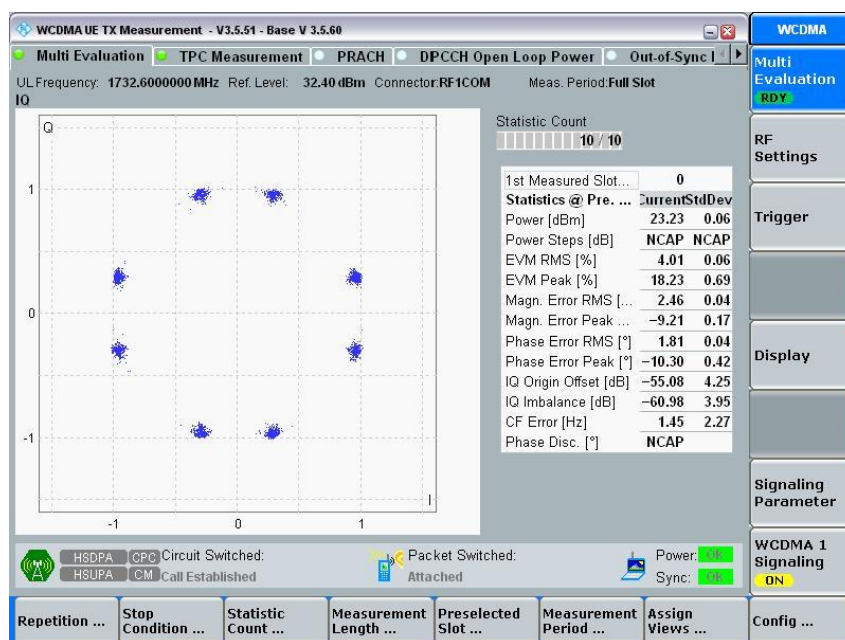


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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

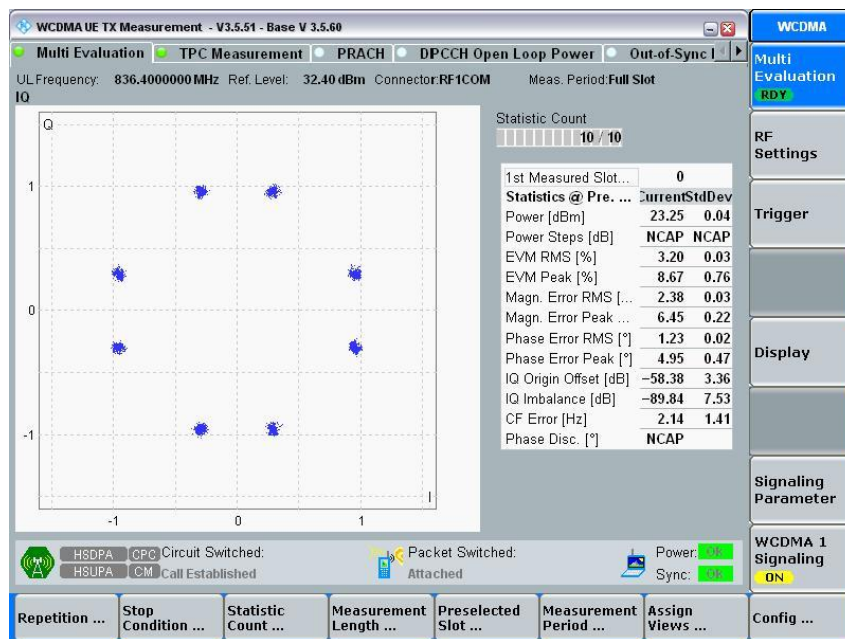
3.2.1.1. Test Channel = MCH



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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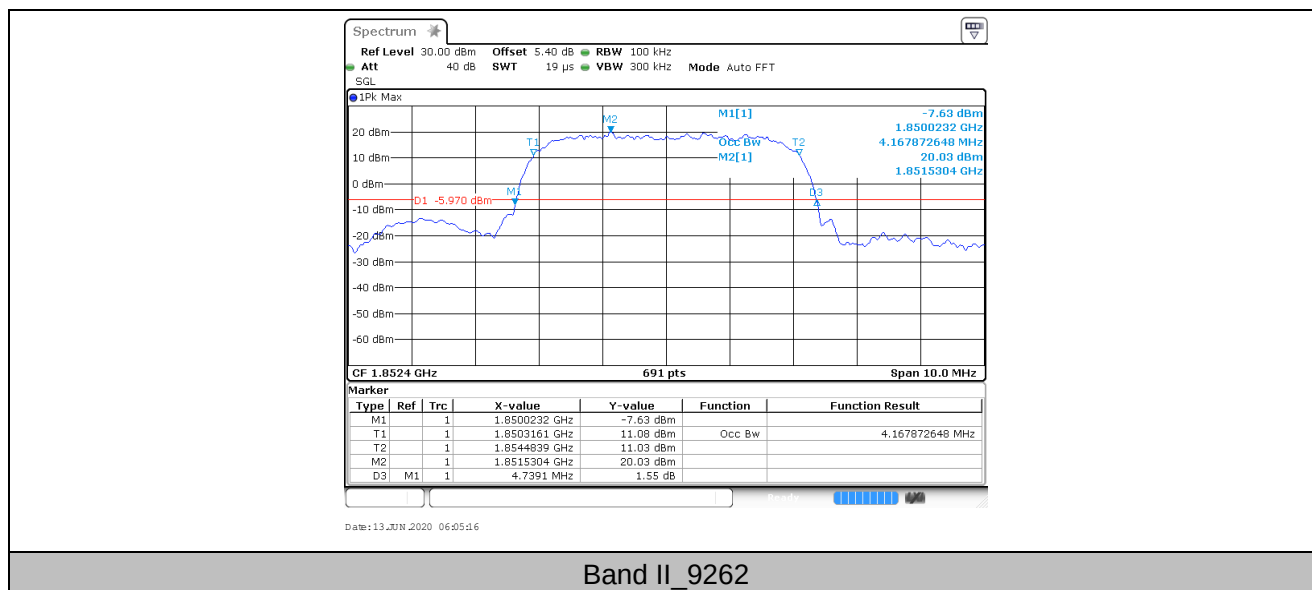


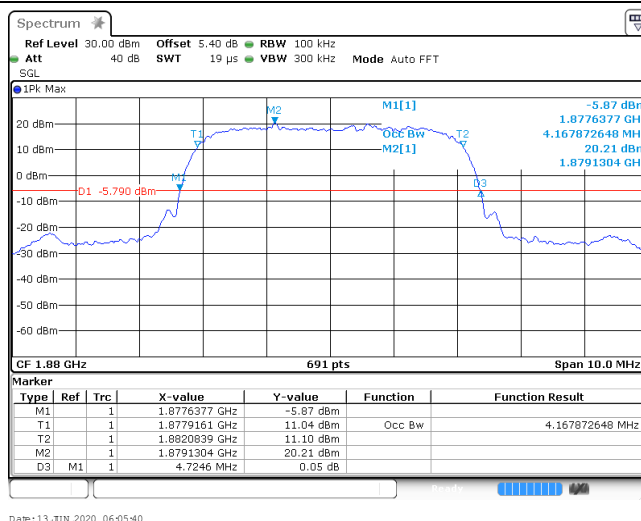
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4739	---	PASS
Band II	9400	4167.9	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4167.9	4725	---	PASS
Band IV	1413	4167.9	4725	---	PASS
Band IV	1513	4182.3	4826	---	PASS
Band V	4132	4153.4	4725	---	PASS
Band V	4182	4167.9	4725	---	PASS
Band V	4233	4196.8	5159	---	PASS

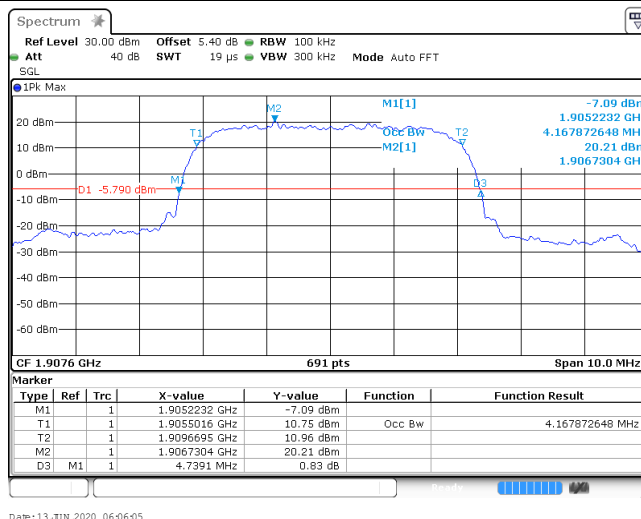
4.2. Test Plots





Date: 13 JUN 2020 06:05:40

Band II_9400



Date: 13 JUN 2020 06:06:05

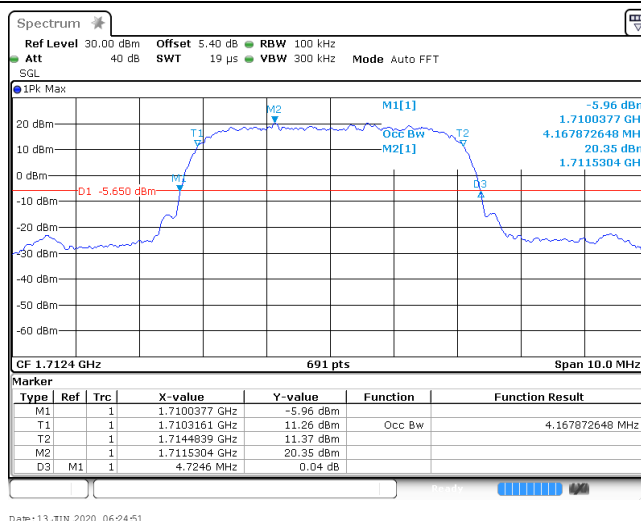
Band II_9538



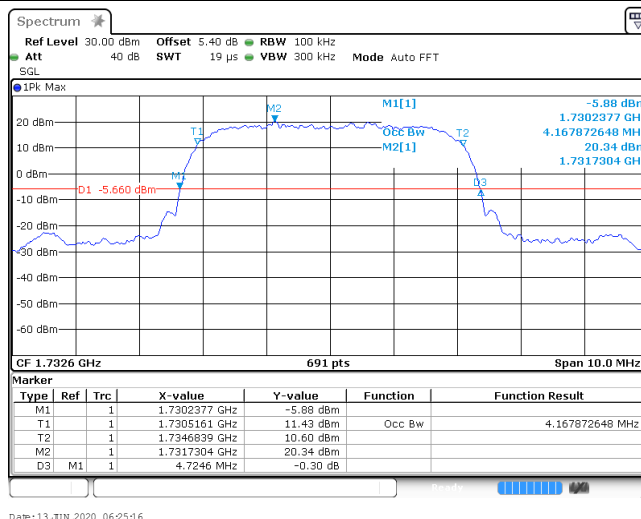
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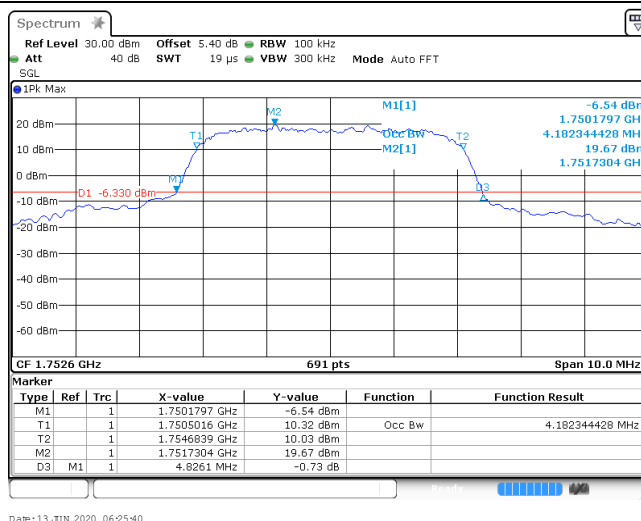


Band IV_1312



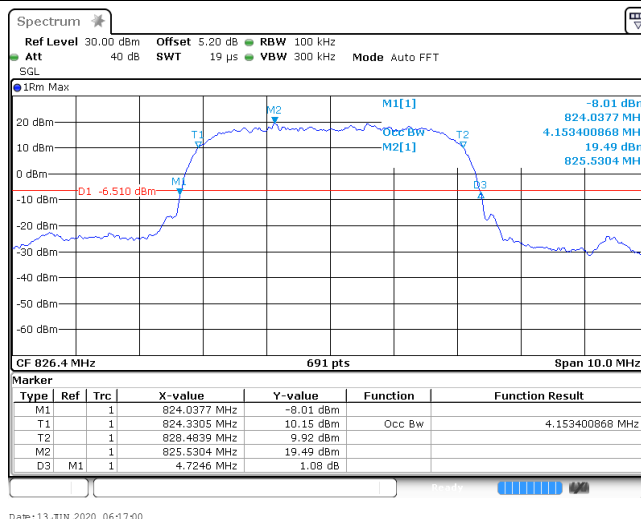
Band IV_1413





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Band IV_1513



Date: 13 JUN 2020 06:17:00

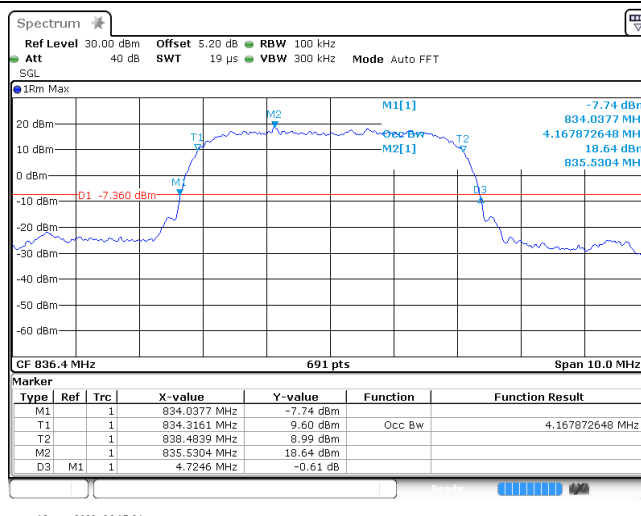
Band V_4132



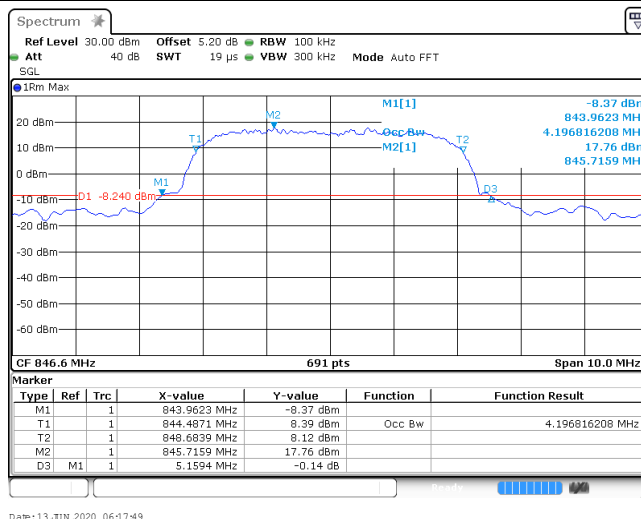
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Band V_4182



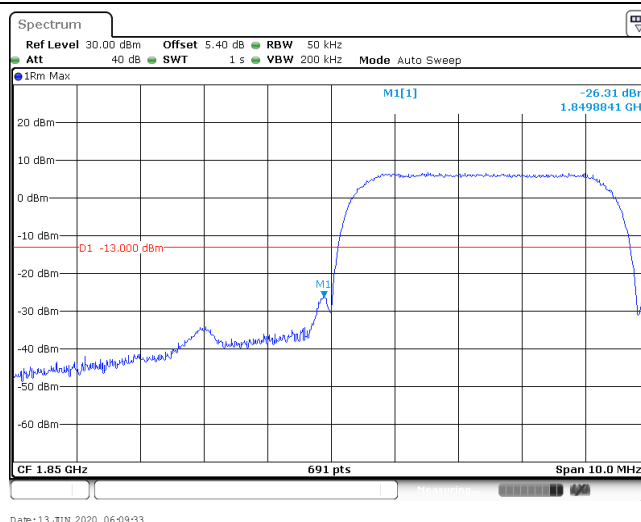
Band V_4233



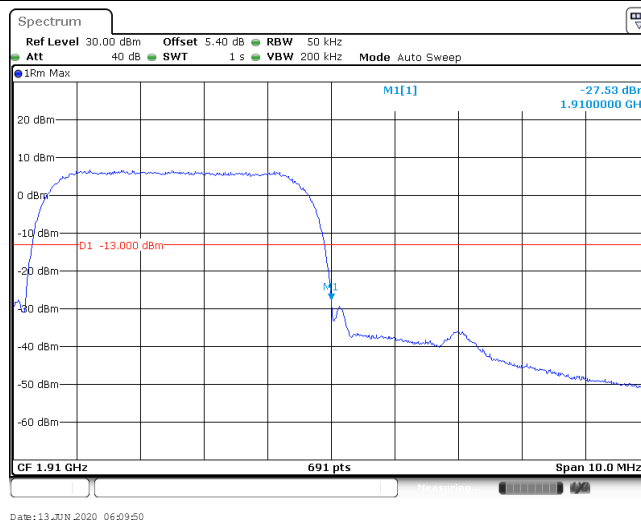


5. Band Edge Compliance

5.1. Test Plots

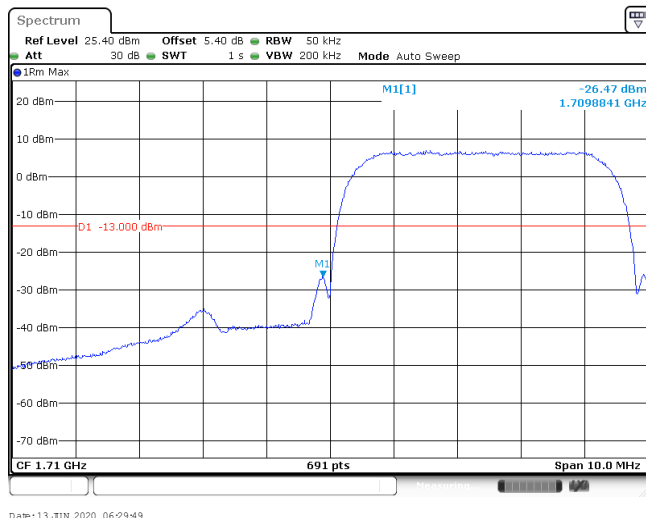


Band II_9262

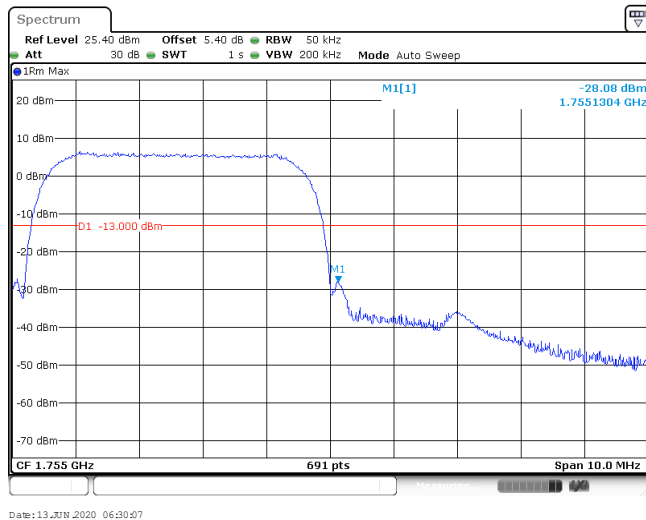


Band II_9538





Band IV_1312



Band IV_1513

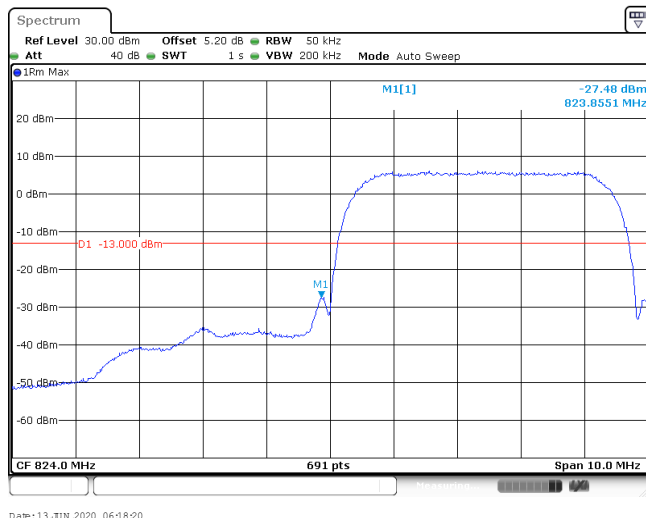


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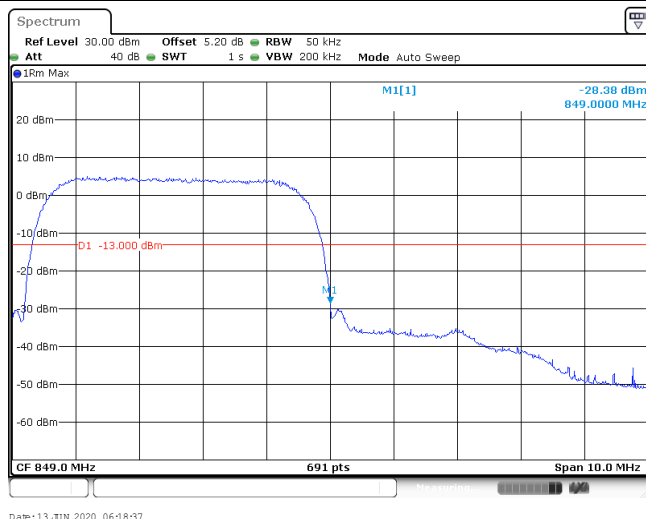
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Date: 13 JUN 2020 06:18:20

Band V_4132



Date: 13 JUN 2020 06:18:37

Band V_4233



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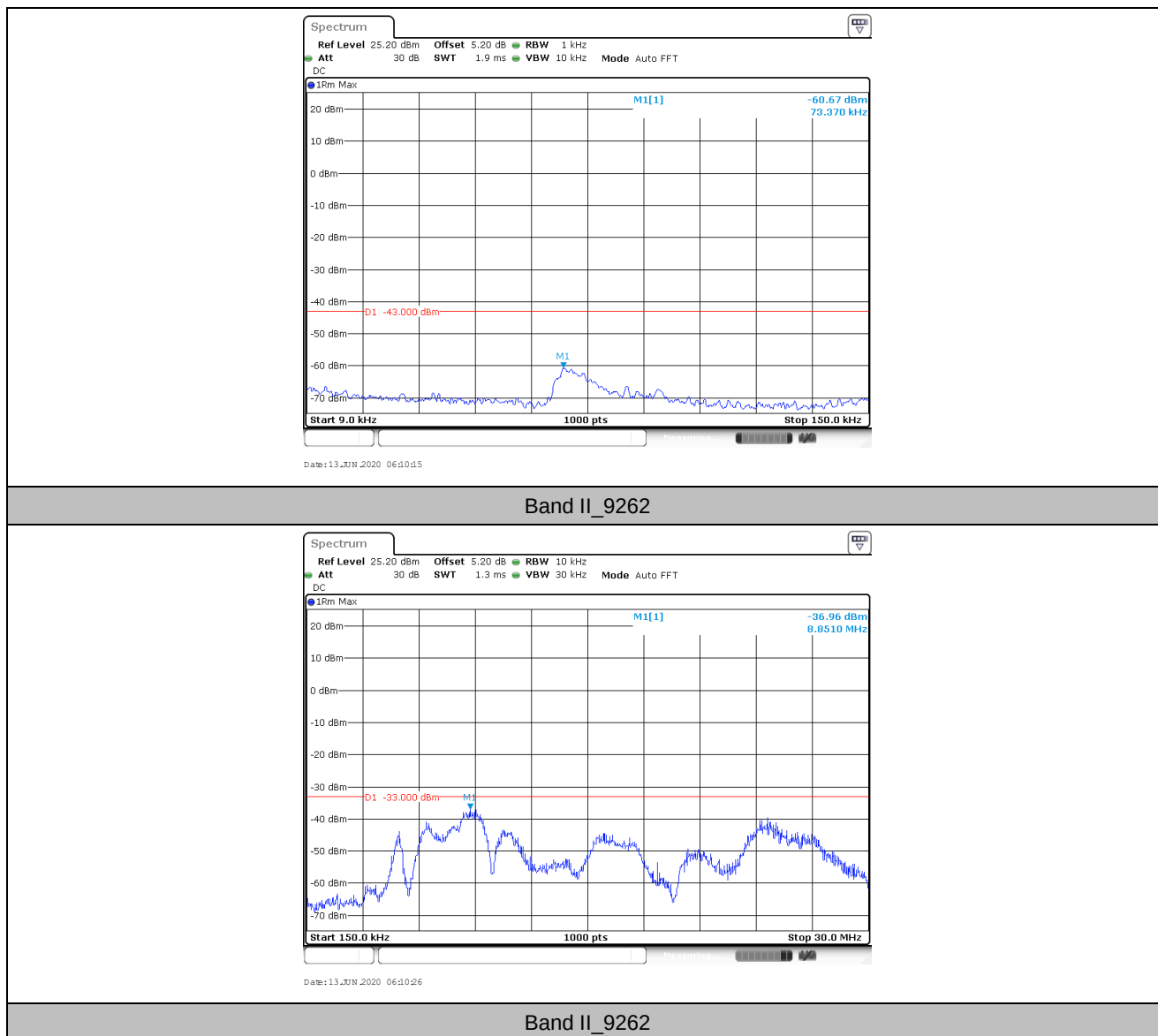


6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

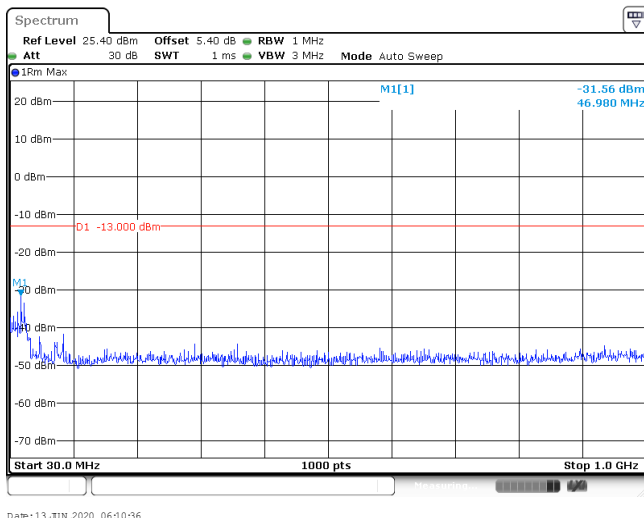
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

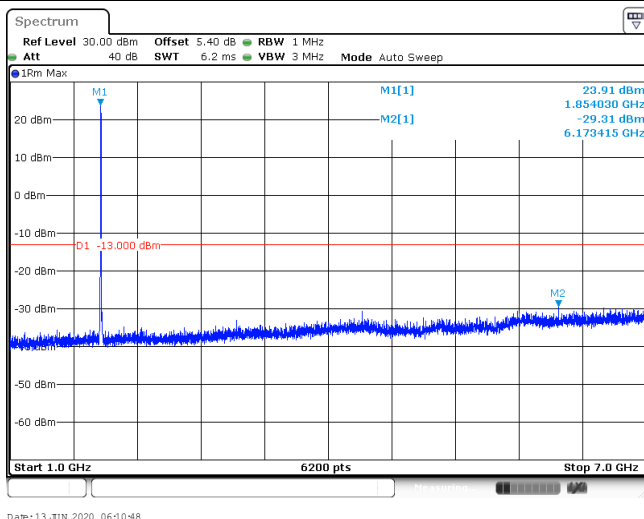


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Band II_9262

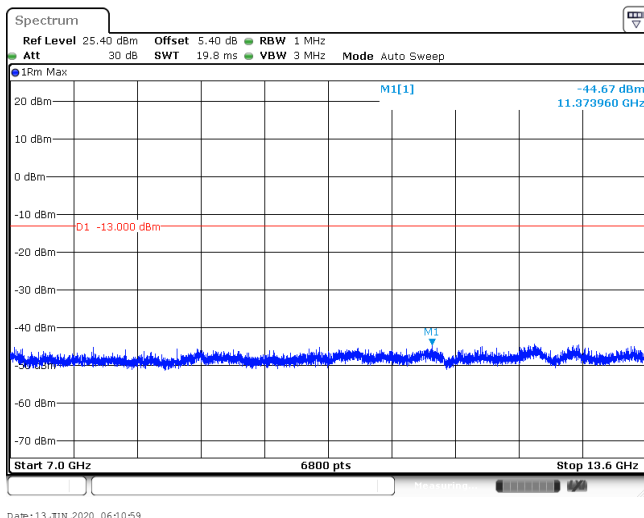


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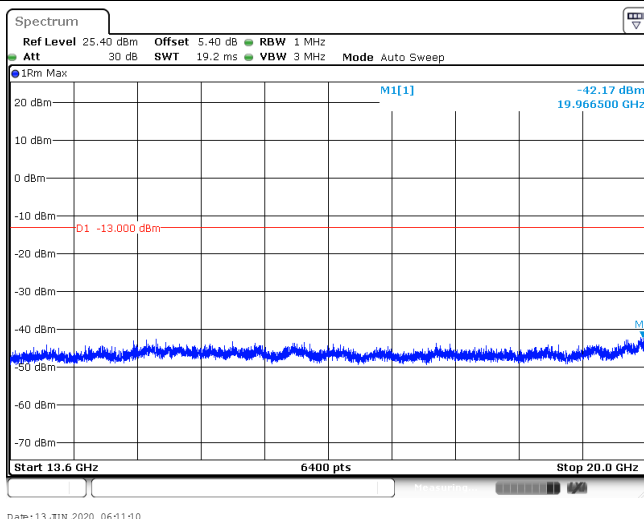


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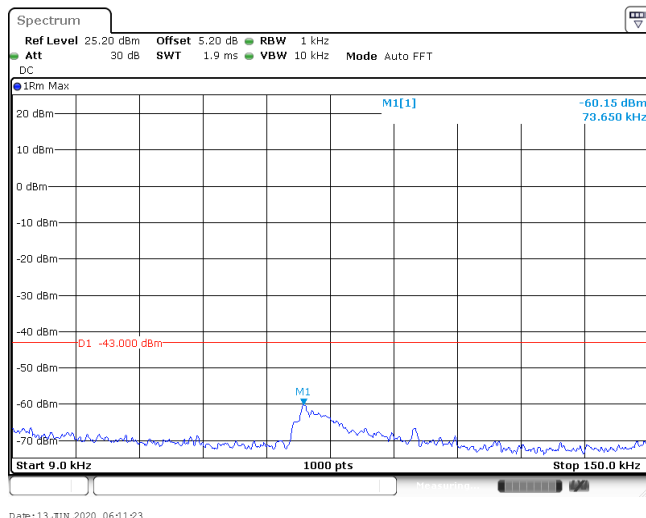
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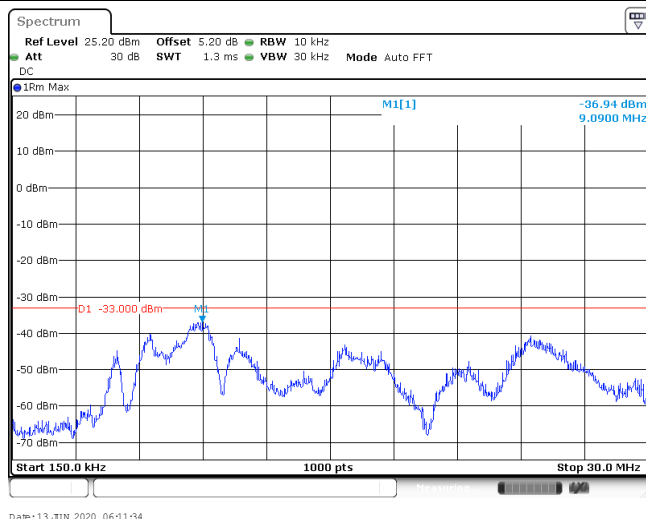
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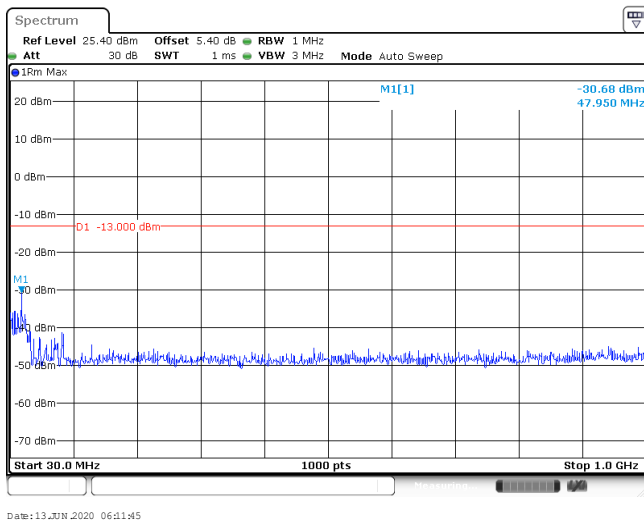
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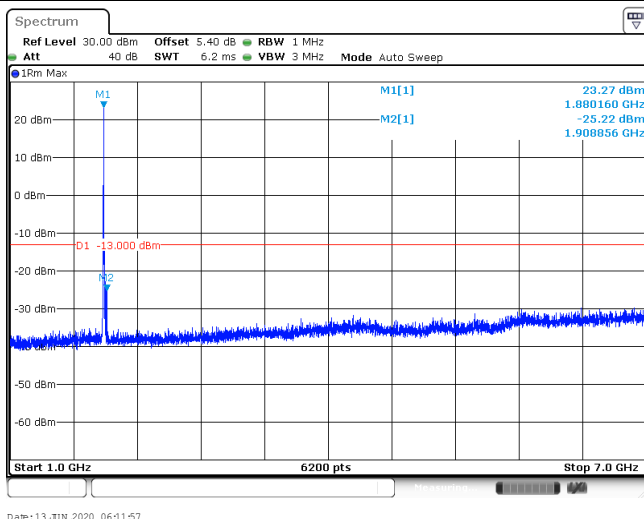
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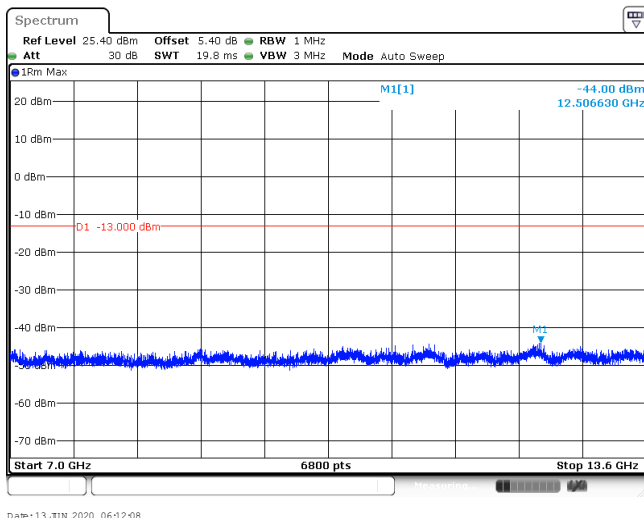


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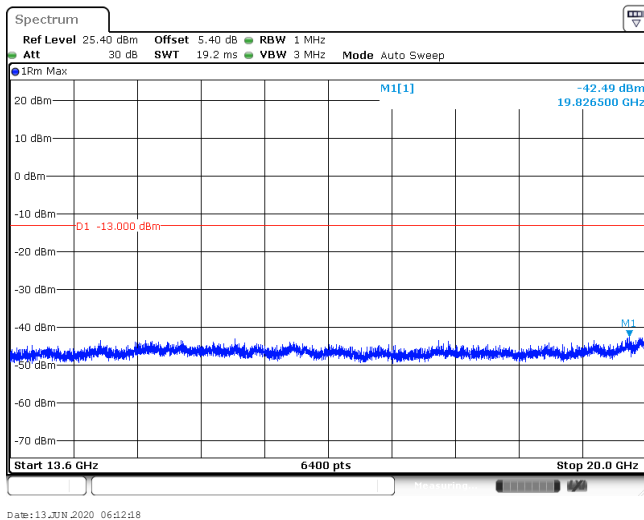


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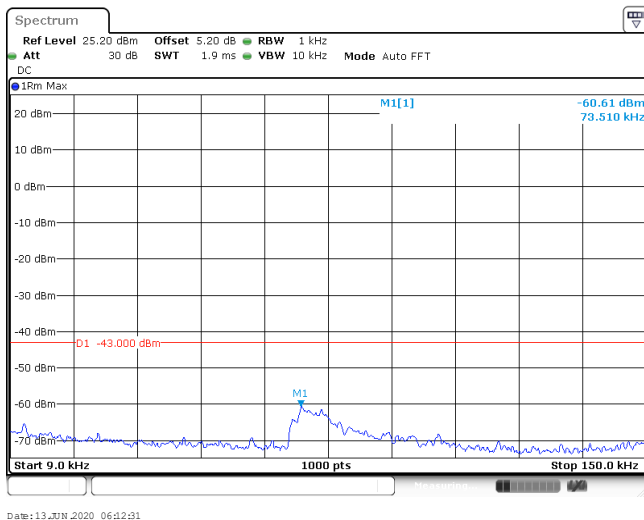


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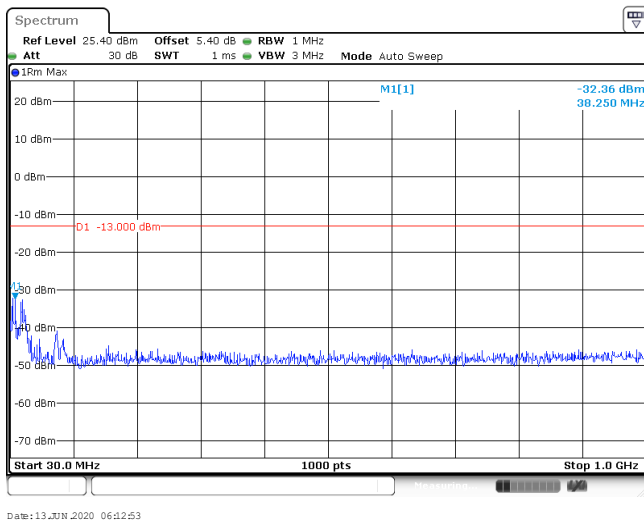


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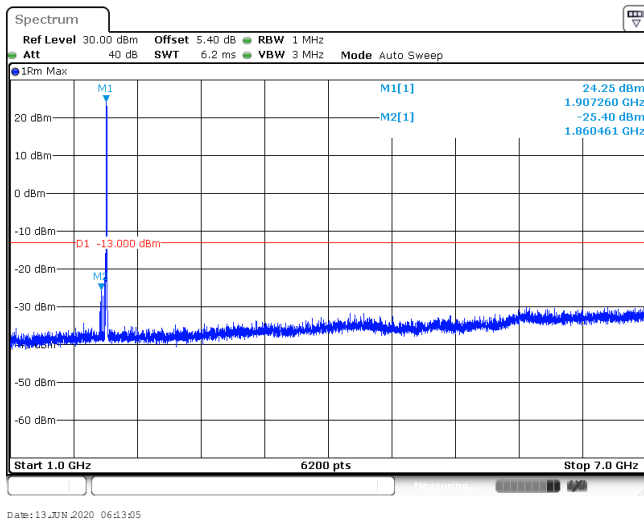


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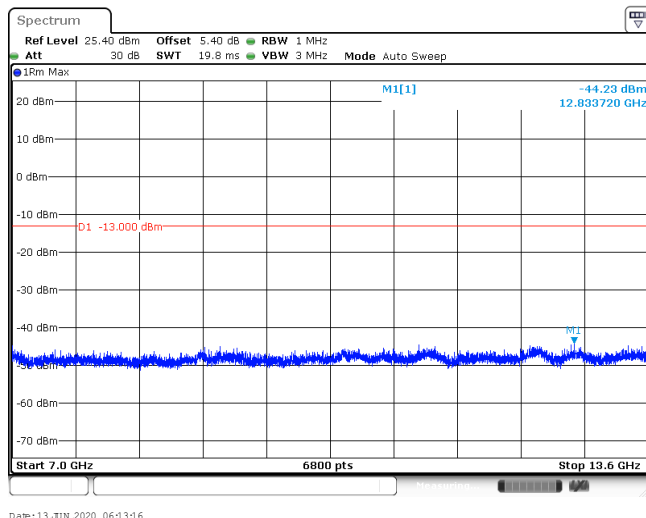


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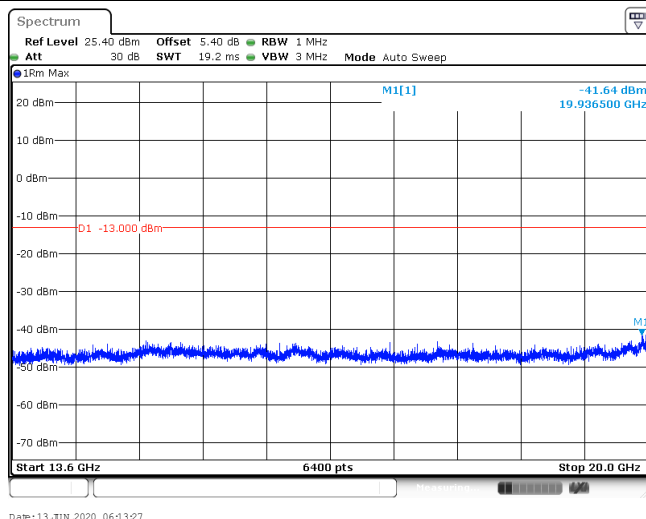


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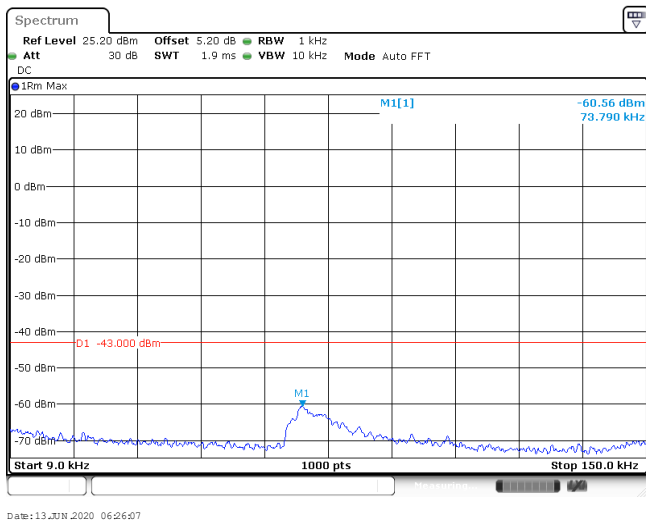


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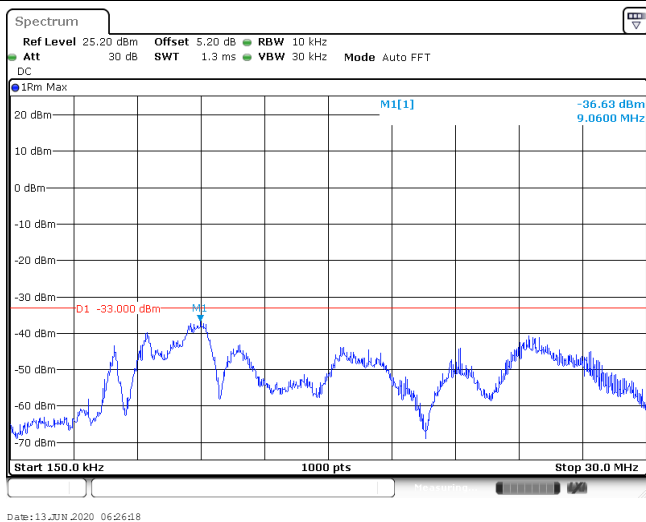


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Band IV_1312



Band IV_1312

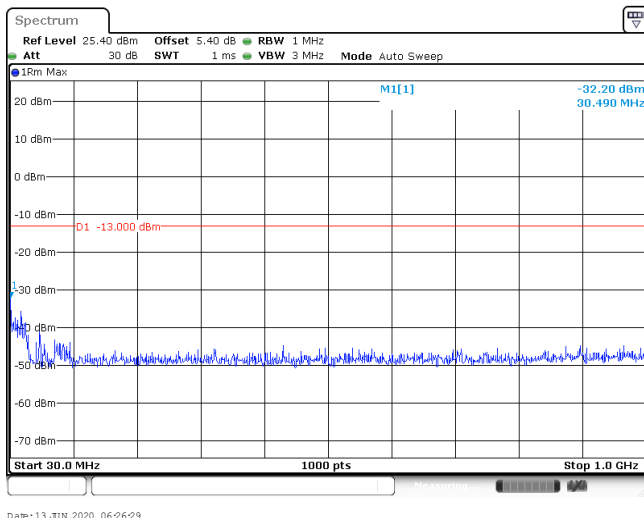


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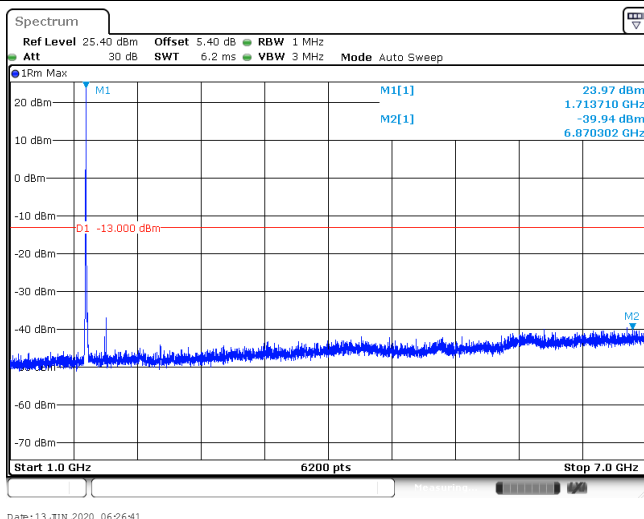
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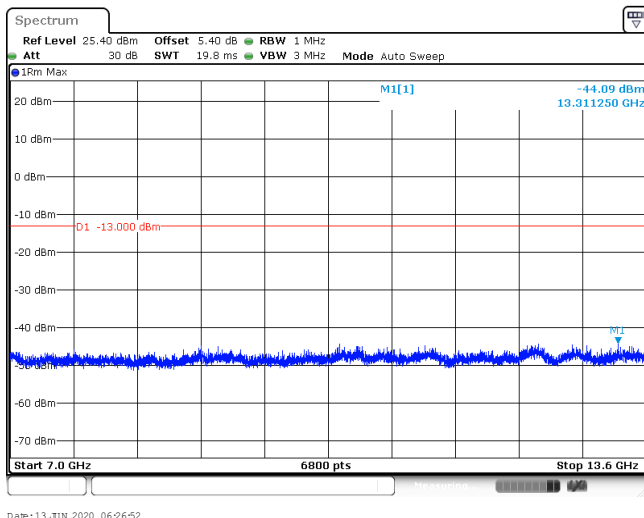


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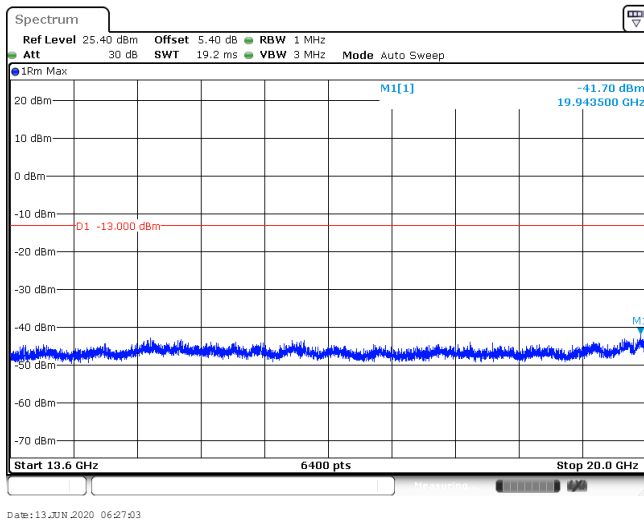


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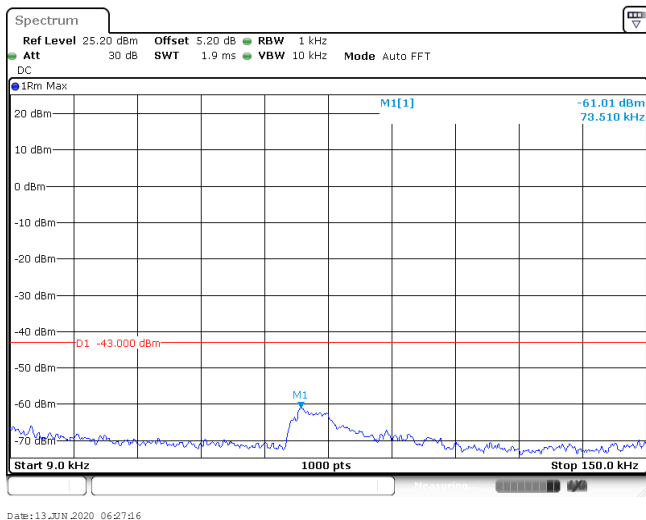


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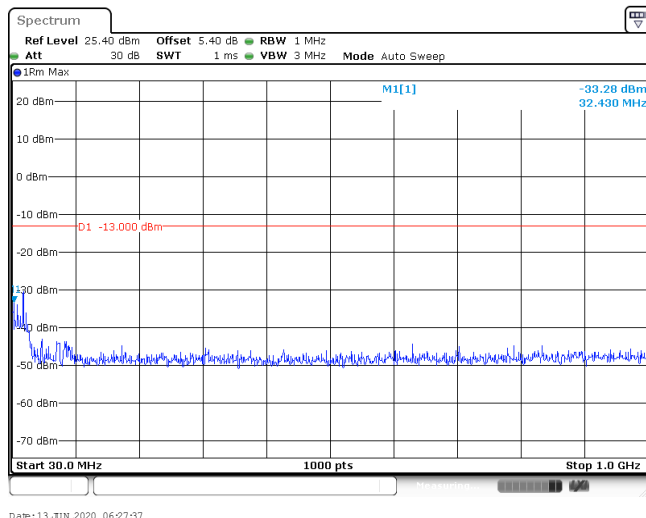


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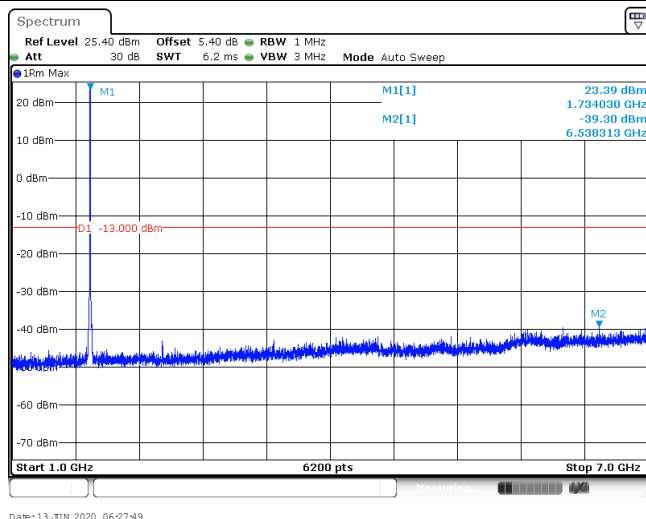


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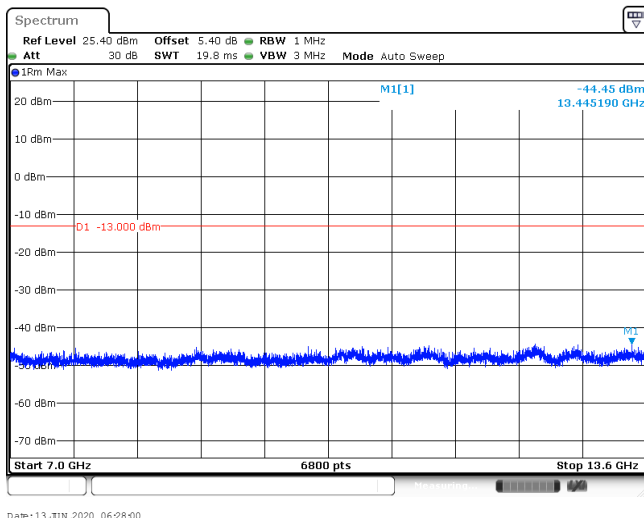


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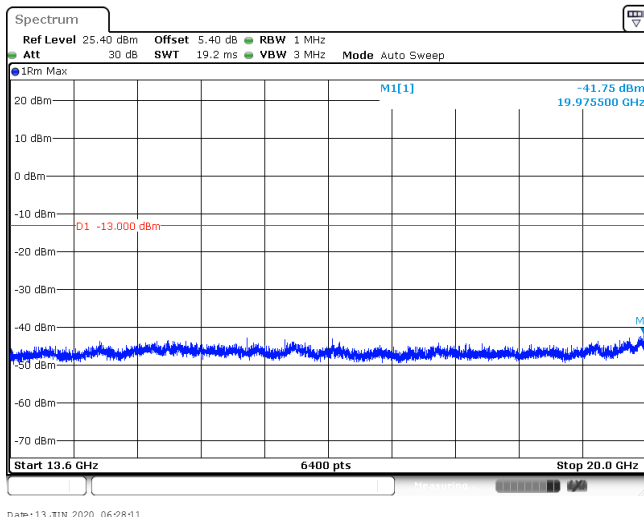


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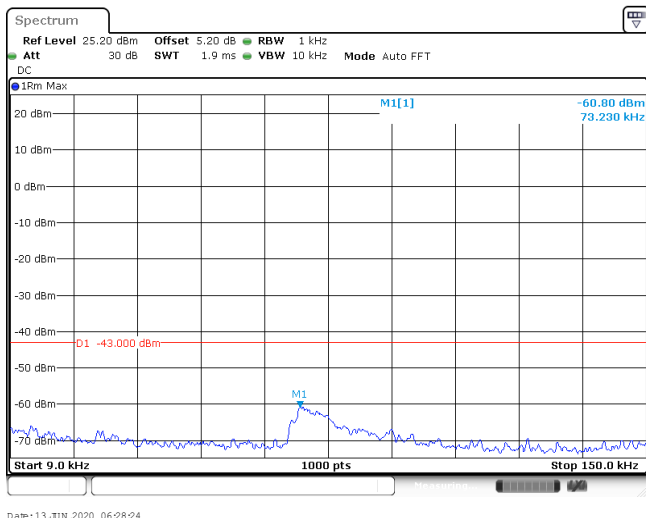


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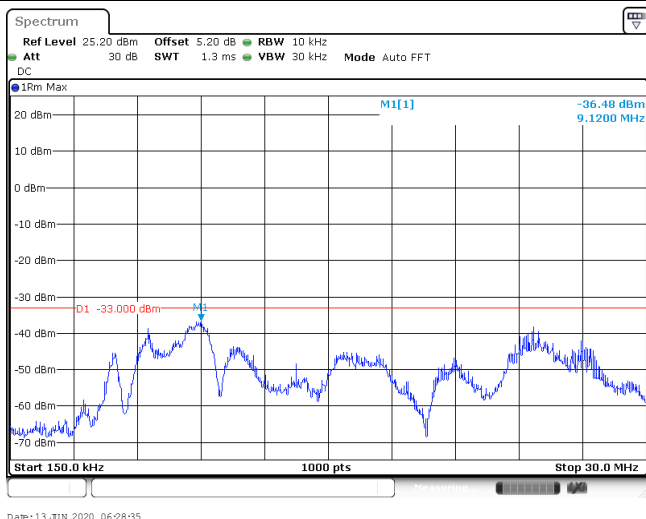


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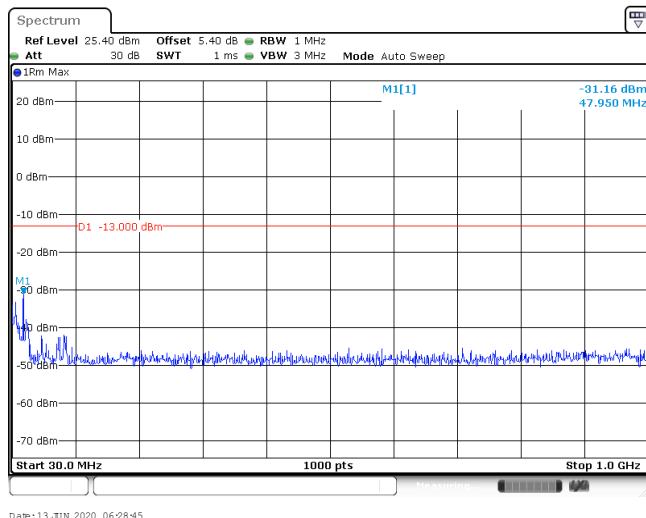


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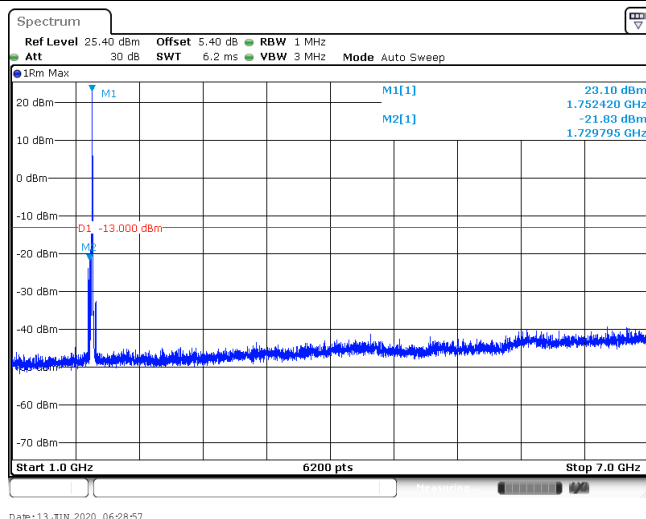


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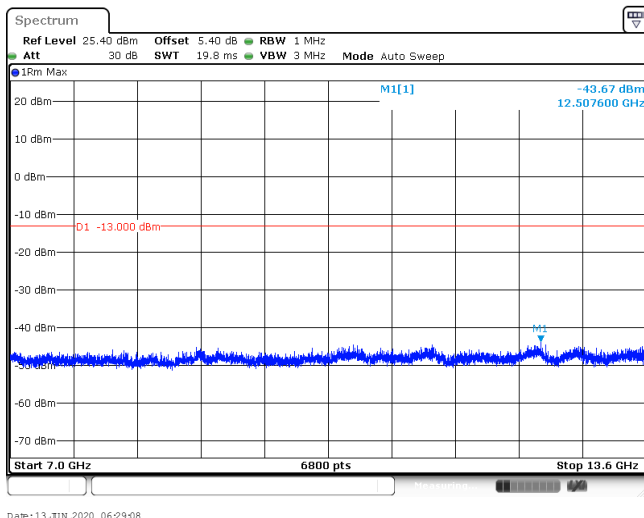


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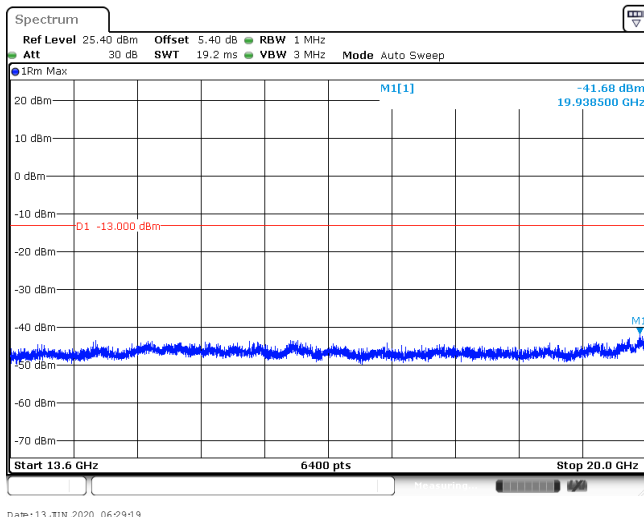
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Band IV_1513



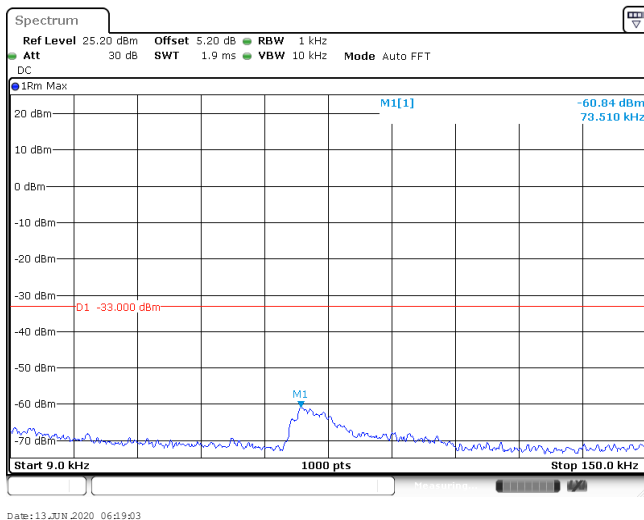
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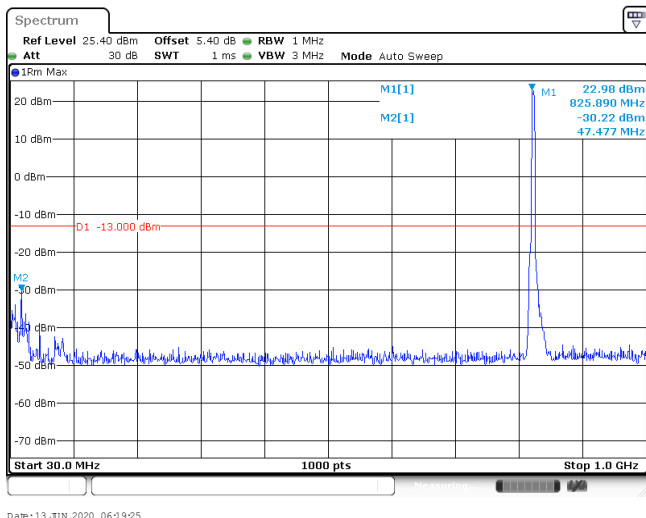


Band V_4132



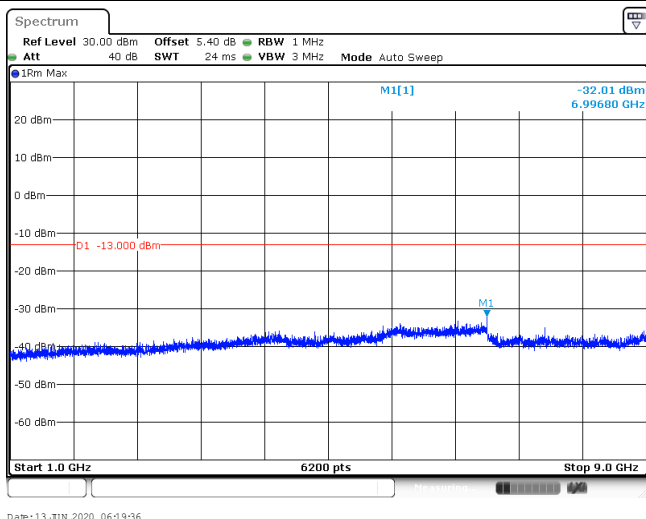
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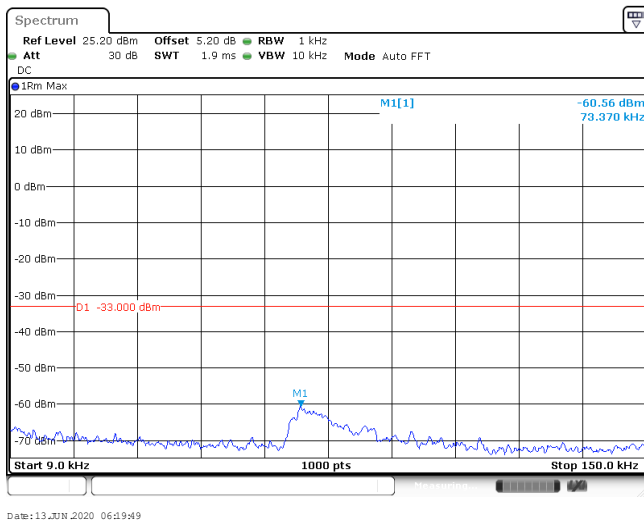
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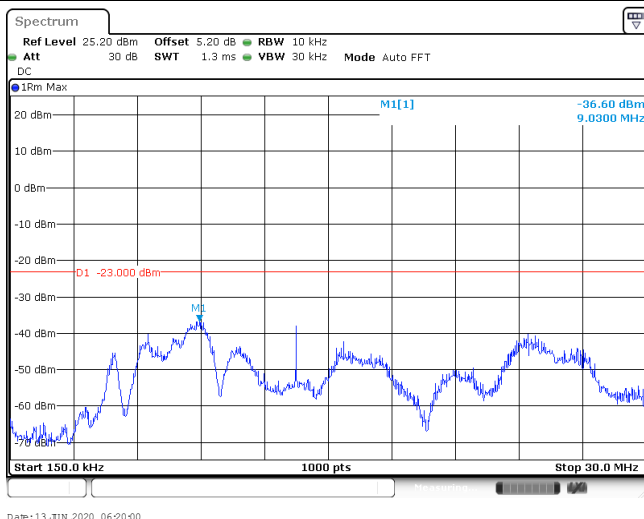
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Band V_4132





Band V_4182



Band V_4182

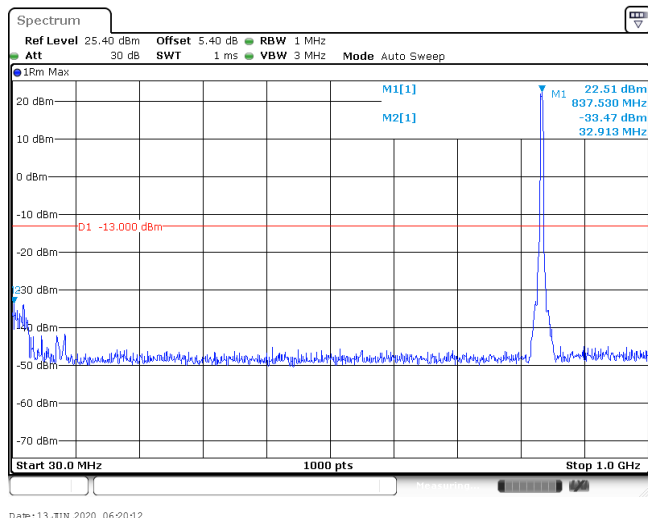


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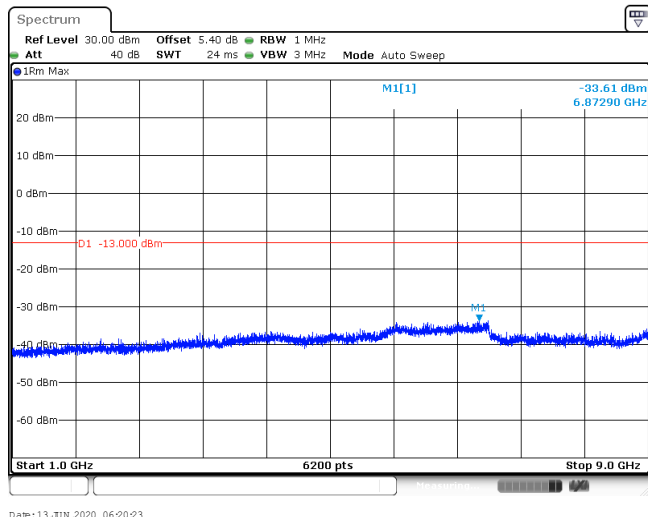
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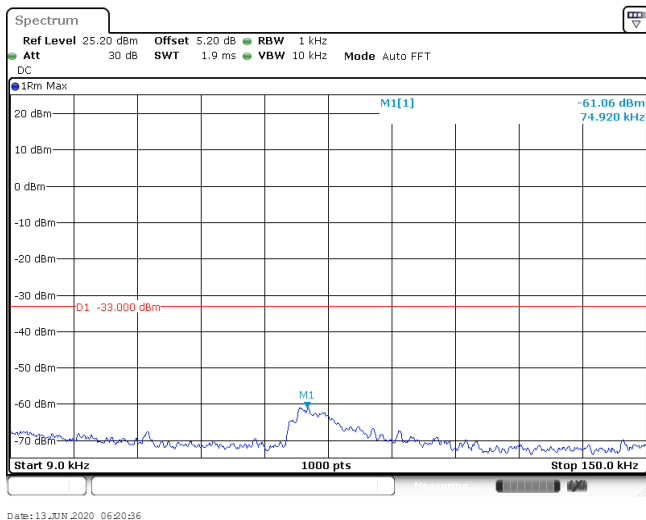


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Band V_4233



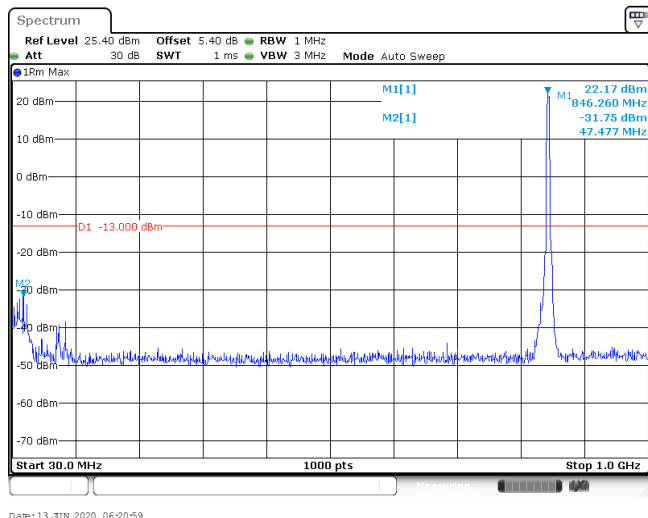
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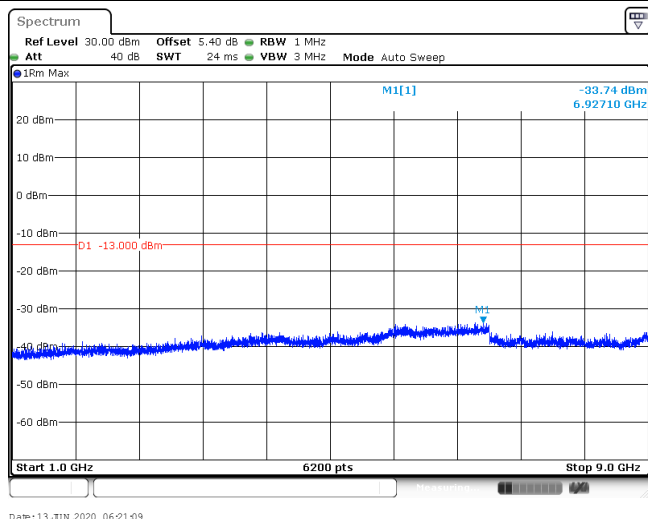
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7. Field Strength of Spurious Radiation

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
51.2926	-72.08	-13.00	59.08	Vertical
111.7266	-64.92	-13.00	51.92	Vertical
491.7916	-66.28	-13.00	53.28	Vertical
2701.1402	-36.51	-13.00	23.51	Vertical
7409.6470	-52.24	-13.00	39.24	Vertical
17995.9999	-38.03	-13.00	25.03	Vertical
40.9130	-64.09	-13.00	51.09	Horizontal
232.3036	-68.15	-13.00	55.15	Horizontal
617.6069	-64.00	-13.00	51.00	Horizontal
2699.5399	-35.48	-13.00	22.48	Horizontal
7359.6453	-56.02	-13.00	43.02	Horizontal
16392.4464	-42.41	-13.00	29.41	Horizontal





7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.3411	-72.35	-13.00	59.35	Vertical
110.9505	-65.11	-13.00	52.11	Vertical
559.2585	-65.47	-13.00	52.47	Vertical
2695.1390	-36.53	-13.00	23.53	Vertical
7520.1507	-54.22	-13.00	41.22	Vertical
17997.9999	-38.61	-13.00	25.61	Vertical
41.4466	-64.01	-13.00	51.01	Horizontal
246.0783	-68.11	-13.00	55.11	Horizontal
528.6534	-65.13	-13.00	52.13	Horizontal
2698.3397	-35.44	-13.00	22.44	Horizontal
7938.6646	-55.63	-13.00	42.63	Horizontal
16403.4468	-42.38	-13.00	29.38	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
58.5679	-71.52	-13.00	58.52	Vertical
111.1446	-64.47	-13.00	51.47	Vertical
574.6822	-65.29	-13.00	52.29	Vertical
2701.9404	-36.69	-13.00	23.69	Vertical
7351.6451	-55.07	-13.00	42.07	Vertical
17983.4995	-38.31	-13.00	25.31	Vertical
42.1741	-64.56	-13.00	51.56	Horizontal
238.3179	-68.15	-13.00	55.15	Horizontal
629.7325	-62.35	-13.00	49.35	Horizontal
2698.7397	-35.39	-13.00	22.39	Horizontal
7967.6656	-55.57	-13.00	42.57	Horizontal
16396.4465	-42.65	-13.00	29.65	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
47.9944	-69.92	-13.00	56.92	Vertical
110.3200	-62.96	-13.00	49.96	Vertical
588.3599	-60.79	-13.00	47.79	Vertical
2697.5395	-32.07	-13.00	19.07	Vertical
7247.1416	-53.46	-13.00	40.46	Vertical
17992.9998	-33.02	-13.00	20.02	Vertical
43.5807	-62.56	-13.00	49.56	Horizontal
241.1311	-64.82	-13.00	51.82	Horizontal
514.1027	-62.83	-13.00	49.83	Horizontal
2699.1398	-30.91	-13.00	17.91	Horizontal
7476.6492	-53.28	-13.00	40.28	Horizontal
16398.9466	-34.70	-13.00	21.70	Horizontal





7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.9758	-70.82	-13.00	57.82	Vertical
114.1517	-62.06	-13.00	49.06	Vertical
597.2359	-60.94	-13.00	47.94	Vertical
2702.7405	-31.98	-13.00	18.98	Vertical
7447.1482	-52.77	-13.00	39.77	Vertical
17989.9997	-33.21	-13.00	20.21	Vertical
44.0657	-62.75	-13.00	49.75	Horizontal
236.0383	-65.41	-13.00	52.41	Horizontal
594.0832	-61.06	-13.00	48.06	Horizontal
2707.1414	-30.61	-13.00	17.61	Horizontal
7476.1492	-53.03	-13.00	40.03	Horizontal
16400.4467	-34.73	-13.00	21.73	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.3710	-13.00	57.48	-1.21	Vertical
110.1745	-13.00	48.71	6.39	Vertical
581.2301	-13.00	49.08	6.71	Vertical
2707.9416	-13.00	18.78	31.56	Vertical
7482.6494	-13.00	39.77	0.16	Vertical
17999.0000	-13.00	20.26	17.85	Vertical
42.1256	-62.11	-13.00	49.11	Horizontal
233.7102	-65.72	-13.00	52.72	Horizontal
548.1029	-62.25	-13.00	49.25	Horizontal
2701.9404	-30.86	-13.00	17.86	Horizontal
6577.6193	-55.90	-13.00	42.90	Horizontal
16395.4465	-34.54	-13.00	21.54	Horizontal



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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
51.9716	-72.37	-13.00	59.37	Vertical
115.9948	-64.89	-13.00	51.89	Vertical
434.1222	-66.63	-13.00	53.63	Vertical
2603.9208	-51.35	-13.00	38.35	Vertical
7366.6456	-55.23	-13.00	42.23	Vertical
17994.4998	-38.28	-13.00	25.28	Vertical
44.5022	-63.86	-13.00	50.86	Horizontal
242.8286	-68.41	-13.00	55.41	Horizontal
486.4563	-66.93	-13.00	53.93	Horizontal
2697.9396	-50.79	-13.00	37.79	Horizontal
7354.1451	-56.03	-13.00	43.03	Horizontal
16393.4464	-42.39	-13.00	29.39	Horizontal





7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.7291	-72.14	-13.00	59.14	Vertical
109.2530	-64.77	-13.00	51.77	Vertical
458.2764	-66.70	-13.00	53.70	Vertical
3000.0000	-51.37	-13.00	38.37	Vertical
7347.1449	-55.70	-13.00	42.70	Vertical
17997.4999	-38.52	-13.00	25.52	Vertical
45.3753	-63.68	-13.00	50.68	Horizontal
223.9127	-68.76	-13.00	55.76	Horizontal
590.4455	-64.17	-13.00	51.17	Horizontal
2699.9400	-50.72	-13.00	37.72	Horizontal
7498.6500	-56.11	-13.00	43.11	Horizontal
16394.9465	-42.65	-13.00	29.65	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.4794	-72.56	-13.00	59.56	Vertical
113.4727	-64.81	-13.00	51.81	Vertical
514.3452	-66.72	-13.00	53.72	Vertical
2603.1206	-49.17	-13.00	36.17	Vertical
7415.6472	-55.43	-13.00	42.43	Vertical
17999.0000	-38.44	-13.00	25.44	Vertical
44.1627	-64.74	-13.00	51.74	Horizontal
230.9941	-67.44	-13.00	54.44	Horizontal
584.3342	-63.34	-13.00	50.34	Horizontal
2697.9396	-50.72	-13.00	37.72	Horizontal
7354.6452	-56.24	-13.00	43.24	Horizontal
16400.9467	-42.26	-13.00	29.26	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.
3. All antenna has been tested,only the data of down antenna(worst) has been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-5.39	-0.002908	2.5	PASS
Band II	9262	VN	TN	-14.27	-0.007703	2.5	PASS
Band II	9262	VH	TN	-14.63	-0.007896	2.5	PASS
Band II	9400	VL	TN	-9.46	-0.005033	2.5	PASS
Band II	9400	VN	TN	-9.31	-0.004950	2.5	PASS
Band II	9400	VH	TN	-9.86	-0.005243	2.5	PASS
Band II	9538	VL	TN	-9.71	-0.005092	2.5	PASS
Band II	9538	VN	TN	-17.41	-0.009126	2.5	PASS
Band II	9538	VH	TN	-17.72	-0.009291	2.5	PASS
Band IV	1312	VL	TN	-12.07	-0.007051	2.5	PASS
Band IV	1312	VN	TN	-13.07	-0.007631	2.5	PASS
Band IV	1312	VH	TN	-16.16	-0.009436	2.5	PASS
Band IV	1413	VL	TN	-8.32	-0.004801	2.5	PASS
Band IV	1413	VN	TN	-10.65	-0.006147	2.5	PASS
Band IV	1413	VH	TN	-8.78	-0.005069	2.5	PASS
Band IV	1513	VL	TN	-13.40	-0.007644	2.5	PASS
Band IV	1513	VN	TN	-6.64	-0.003787	2.5	PASS
Band IV	1513	VH	TN	-10.34	-0.005901	2.5	PASS
Band V	4132	VL	TN	-11.09	-0.013424	2.5	PASS
Band V	4132	VN	TN	-13.07	-0.015821	2.5	PASS
Band V	4132	VH	TN	-5.58	-0.006751	2.5	PASS
Band V	4182	VL	TN	-8.37	-0.010005	2.5	PASS
Band V	4182	VN	TN	-7.72	-0.009236	2.5	PASS
Band V	4182	VH	TN	-7.39	-0.008834	2.5	PASS
Band V	4233	VL	TN	-8.43	-0.009961	2.5	PASS
Band V	4233	VN	TN	-11.21	-0.013239	2.5	PASS
Band V	4233	VH	TN	-9.53	-0.011262	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	-13.30	-0.007182	2.5	PASS
Band II	9262	VN	-20	-14.04	-0.007580	2.5	PASS
Band II	9262	VN	-10	-14.05	-0.007583	2.5	PASS
Band II	9262	VN	0	-11.57	-0.006244	2.5	PASS
Band II	9262	VN	10	-13.88	-0.007495	2.5	PASS
Band II	9262	VN	20	-11.63	-0.006278	2.5	PASS
Band II	9262	VN	30	-12.86	-0.006943	2.5	PASS
Band II	9262	VN	40	-12.27	-0.006622	2.5	PASS
Band II	9262	VN	50	-14.83	-0.008008	2.5	PASS
Band II	9400	VN	-30	-5.44	-0.002895	2.5	PASS
Band II	9400	VN	-20	-10.55	-0.005612	2.5	PASS
Band II	9400	VN	-10	-7.09	-0.003770	2.5	PASS
Band II	9400	VN	0	-10.53	-0.005600	2.5	PASS
Band II	9400	VN	10	-8.59	-0.004569	2.5	PASS
Band II	9400	VN	20	-6.92	-0.003683	2.5	PASS
Band II	9400	VN	30	-11.70	-0.006224	2.5	PASS
Band II	9400	VN	40	-13.83	-0.007354	2.5	PASS
Band II	9400	VN	50	-17.96	-0.009553	2.5	PASS
Band II	9538	VN	-30	-16.66	-0.008733	2.5	PASS
Band II	9538	VN	-20	-7.88	-0.004132	2.5	PASS
Band II	9538	VN	-10	-15.06	-0.007893	2.5	PASS
Band II	9538	VN	0	-13.95	-0.007312	2.5	PASS
Band II	9538	VN	10	-12.05	-0.006318	2.5	PASS
Band II	9538	VN	20	-12.67	-0.006644	2.5	PASS
Band II	9538	VN	30	-15.50	-0.008125	2.5	PASS
Band II	9538	VN	40	-14.39	-0.007544	2.5	PASS
Band II	9538	VN	50	-10.66	-0.005587	2.5	PASS
Band IV	1312	VN	-30	-13.27	-0.007748	2.5	PASS
Band IV	1312	VN	-20	-12.55	-0.007326	2.5	PASS
Band IV	1312	VN	-10	-7.84	-0.004578	2.5	PASS
Band IV	1312	VN	0	-12.42	-0.007251	2.5	PASS
Band IV	1312	VN	10	-12.50	-0.007297	2.5	PASS
Band IV	1312	VN	20	-8.28	-0.004833	2.5	PASS
Band IV	1312	VN	30	-11.62	-0.006787	2.5	PASS



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Band IV	1312	VN	40	-11.32	-0.006608	2.5	PASS
Band IV	1312	VN	50	-17.75	-0.010367	2.5	PASS
Band IV	1413	VN	-30	-5.52	-0.003187	2.5	PASS
Band IV	1413	VN	-20	-6.01	-0.003468	2.5	PASS
Band IV	1413	VN	-10	-6.02	-0.003472	2.5	PASS
Band IV	1413	VN	0	-6.27	-0.003616	2.5	PASS
Band IV	1413	VN	10	-9.21	-0.005313	2.5	PASS
Band IV	1413	VN	20	-8.25	-0.004764	2.5	PASS
Band IV	1413	VN	30	-7.20	-0.004157	2.5	PASS
Band IV	1413	VN	40	-6.49	-0.003744	2.5	PASS
Band IV	1413	VN	50	-9.52	-0.005495	2.5	PASS
Band IV	1513	VN	-30	-7.19	-0.004102	2.5	PASS
Band IV	1513	VN	-20	-5.96	-0.003400	2.5	PASS
Band IV	1513	VN	-10	-10.25	-0.005848	2.5	PASS
Band IV	1513	VN	0	-10.74	-0.006126	2.5	PASS
Band IV	1513	VN	10	-7.47	-0.004261	2.5	PASS
Band IV	1513	VN	20	-9.34	-0.005330	2.5	PASS
Band IV	1513	VN	30	-7.64	-0.004359	2.5	PASS
Band IV	1513	VN	40	-4.71	-0.002685	2.5	PASS
Band IV	1513	VN	50	-0.72	-0.000412	2.5	PASS
Band V	4132	VN	-30	-8.88	-0.010750	2.5	PASS
Band V	4132	VN	-20	-12.51	-0.015138	2.5	PASS
Band V	4132	VN	-10	-8.69	-0.010516	2.5	PASS
Band V	4132	VN	0	-9.23	-0.011174	2.5	PASS
Band V	4132	VN	10	-7.23	-0.008750	2.5	PASS
Band V	4132	VN	20	-12.58	-0.015224	2.5	PASS
Band V	4132	VN	30	-9.20	-0.011130	2.5	PASS
Band V	4132	VN	40	-11.34	-0.013727	2.5	PASS
Band V	4132	VN	50	-11.44	-0.013848	2.5	PASS
Band V	4182	VN	-30	-8.30	-0.009920	2.5	PASS
Band V	4182	VN	-20	-10.78	-0.012887	2.5	PASS
Band V	4182	VN	-10	-5.10	-0.006097	2.5	PASS
Band V	4182	VN	0	-10.14	-0.012126	2.5	PASS
Band V	4182	VN	10	-9.71	-0.011605	2.5	PASS
Band V	4182	VN	20	-10.05	-0.012015	2.5	PASS
Band V	4182	VN	30	-8.68	-0.010373	2.5	PASS
Band V	4182	VN	40	-12.12	-0.014495	2.5	PASS
Band V	4182	VN	50	-14.07	-0.016821	2.5	PASS



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Band V	4233	VN	-30	-7.91	-0.009344	2.5	PASS
Band V	4233	VN	-20	-8.40	-0.009927	2.5	PASS
Band V	4233	VN	-10	-5.39	-0.006362	2.5	PASS
Band V	4233	VN	0	-10.86	-0.012825	2.5	PASS
Band V	4233	VN	10	-11.19	-0.013222	2.5	PASS
Band V	4233	VN	20	-5.56	-0.006573	2.5	PASS
Band V	4233	VN	30	-11.15	-0.013171	2.5	PASS
Band V	4233	VN	40	-13.58	-0.016035	2.5	PASS
Band V	4233	VN	50	-6.02	-0.007114	2.5	PASS

The End

