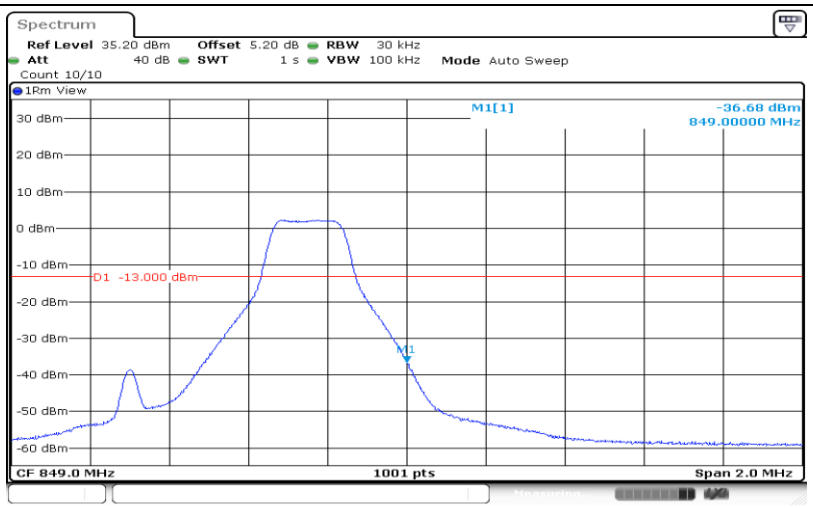

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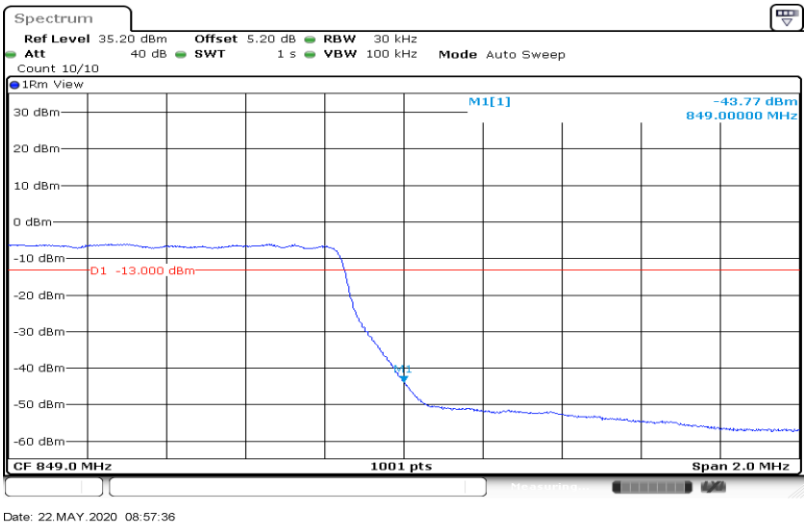

Band5-1.4MHz-16QAM-20407-1RB#0

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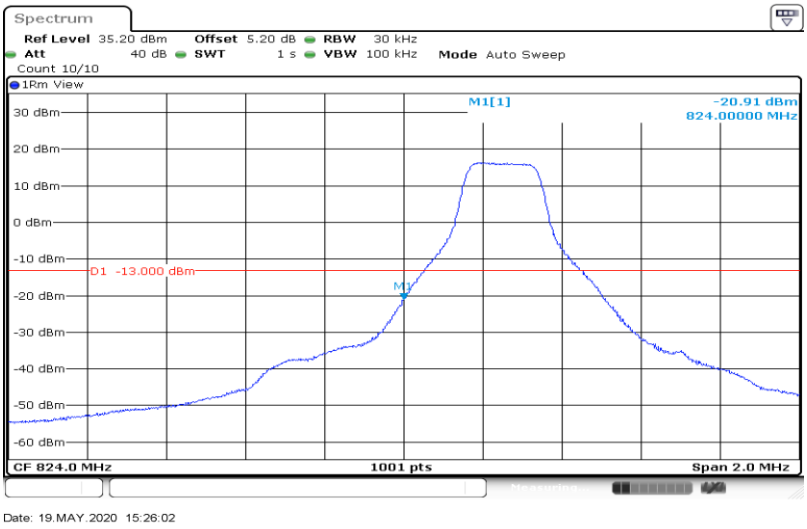

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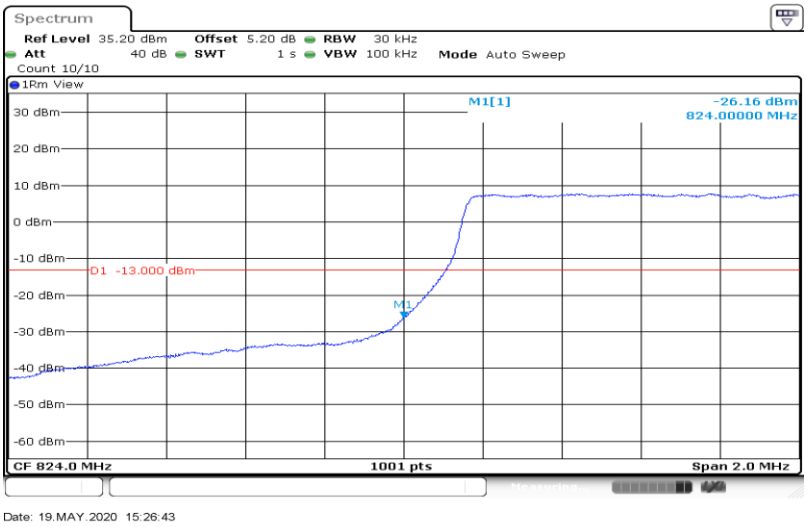

Band5-1.4MHz-16QAM-20643-1RB#5

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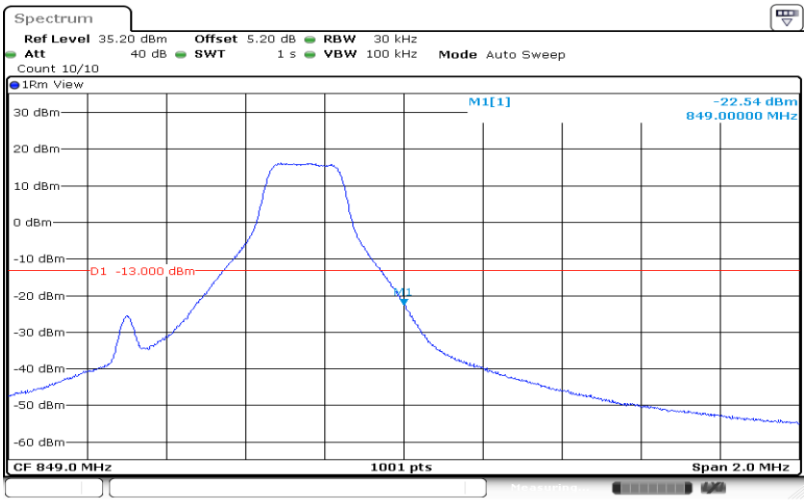

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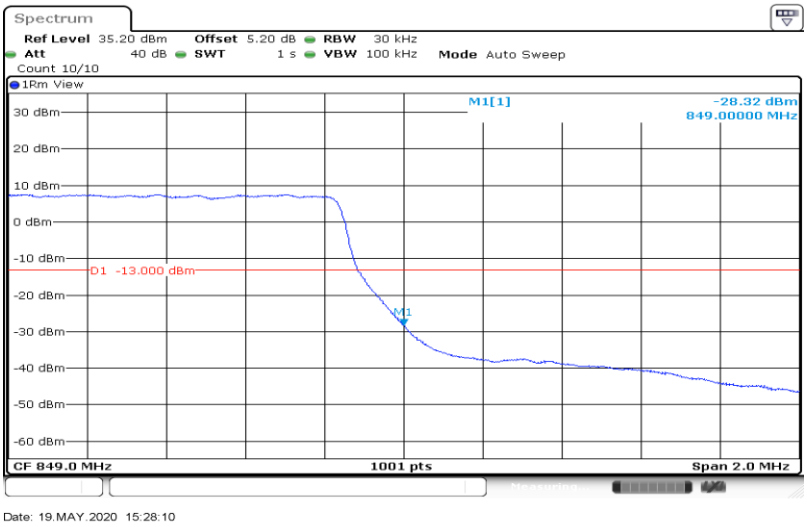

Band5-3MHz-QPSK-20415-1RB#0

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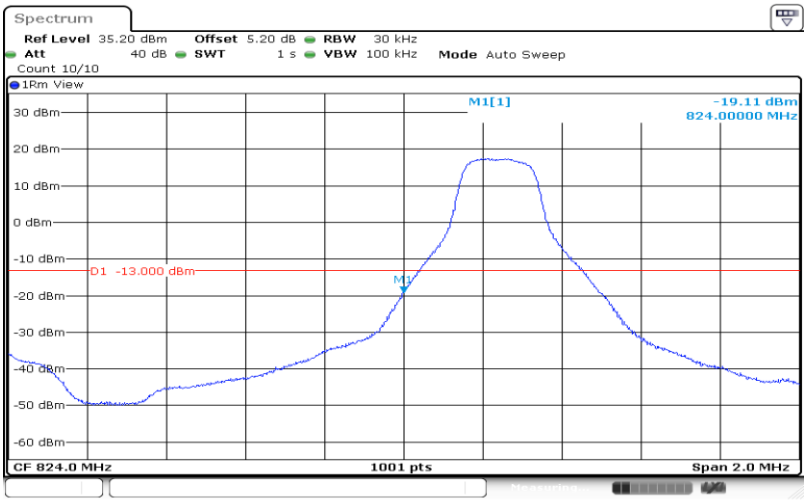

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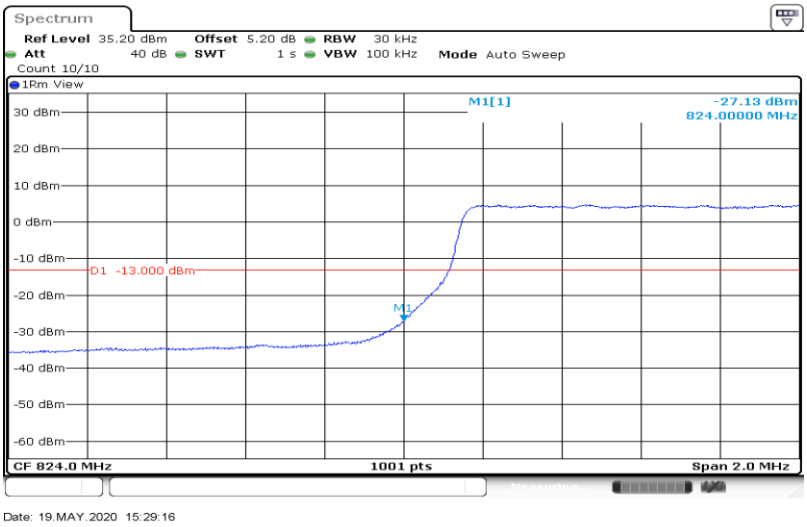

Band5-3MHz-QPSK-20635-1RB#14

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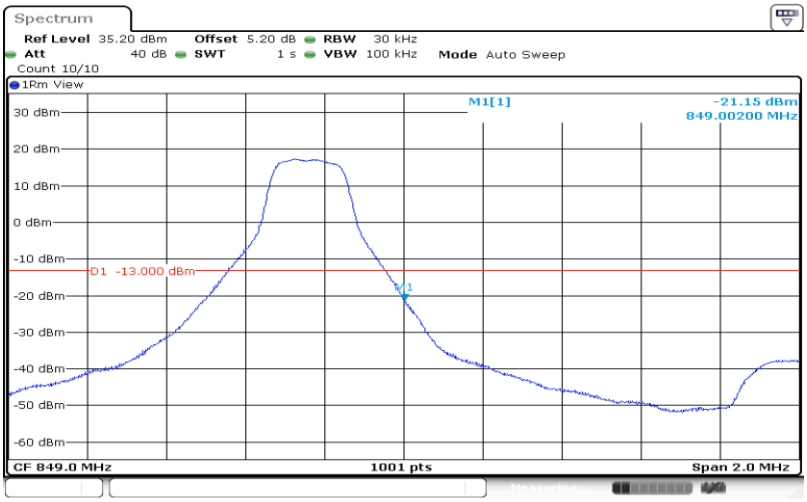

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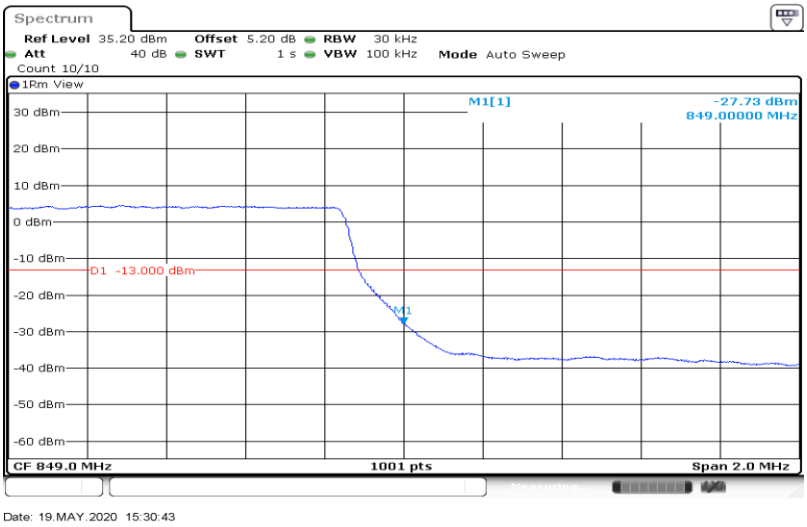

Band5-3MHz-64QAM-20415-1RB#0

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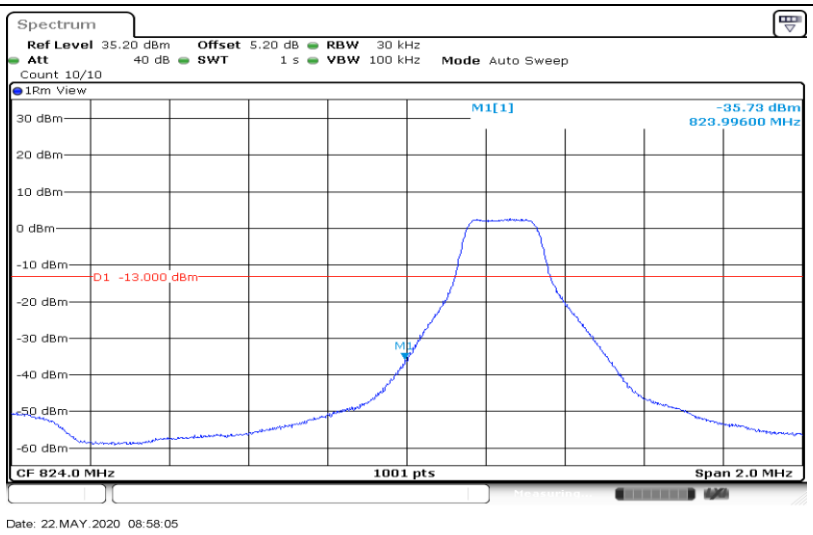

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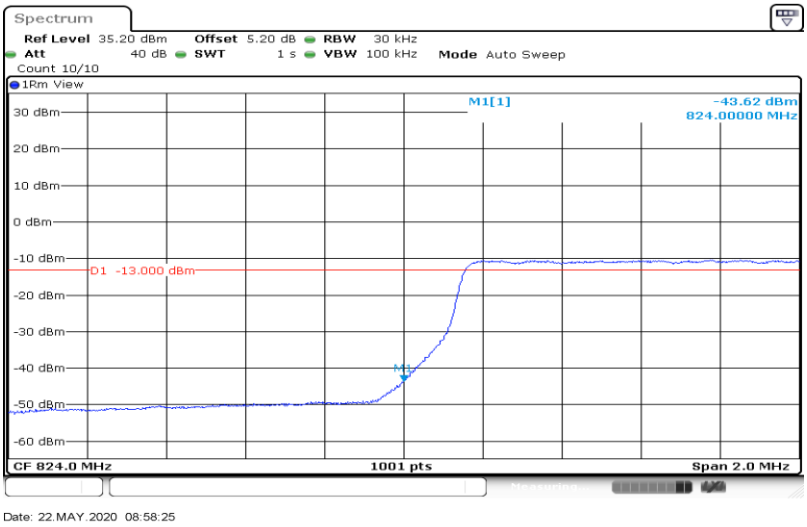

Band5-3MHz-64QAM-20635-1RB#14

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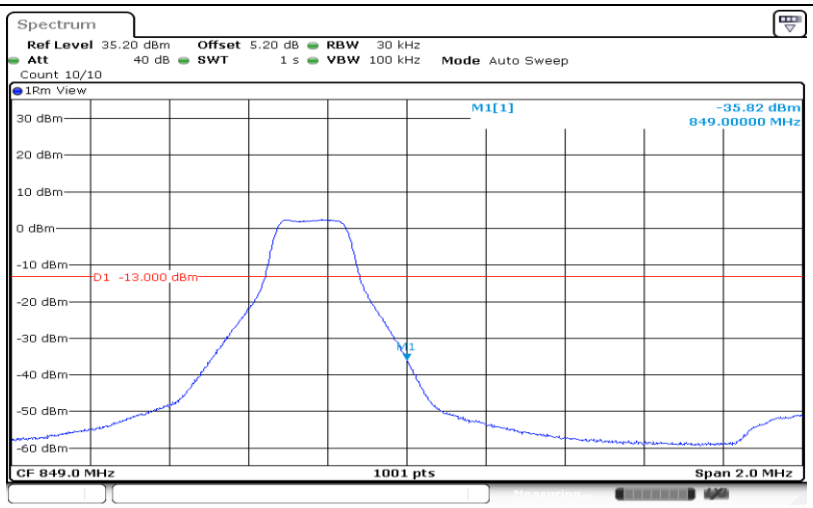

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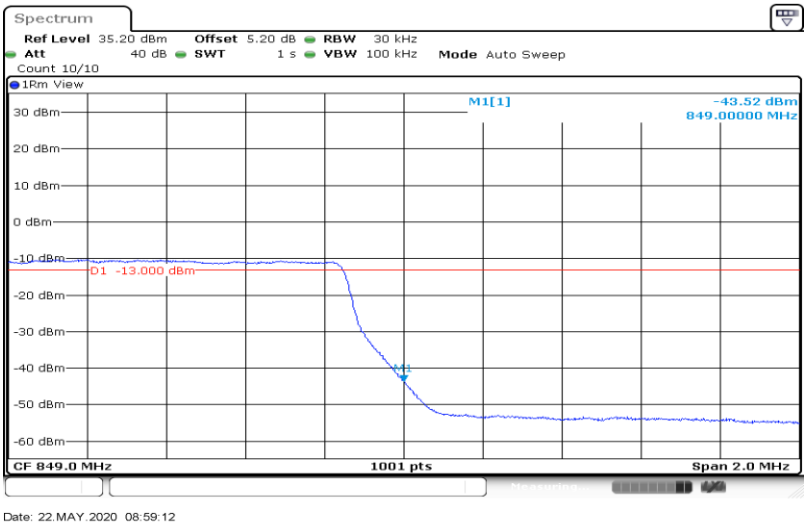

Band5-3MHz-16QAM-20415-1RB#0

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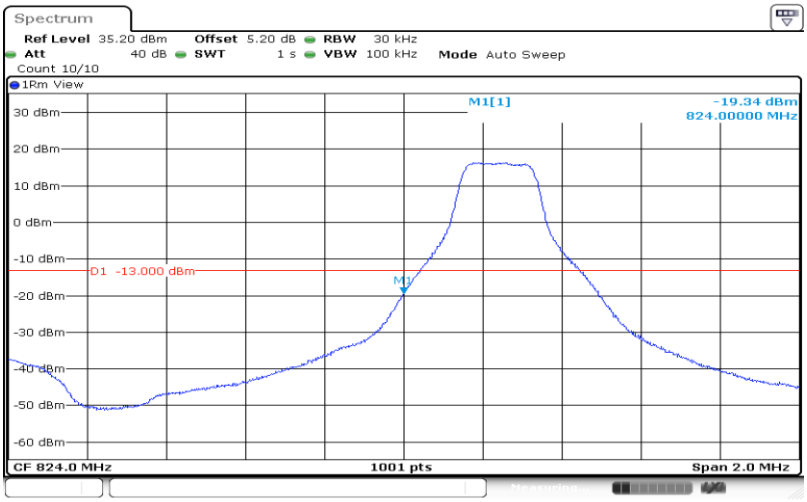

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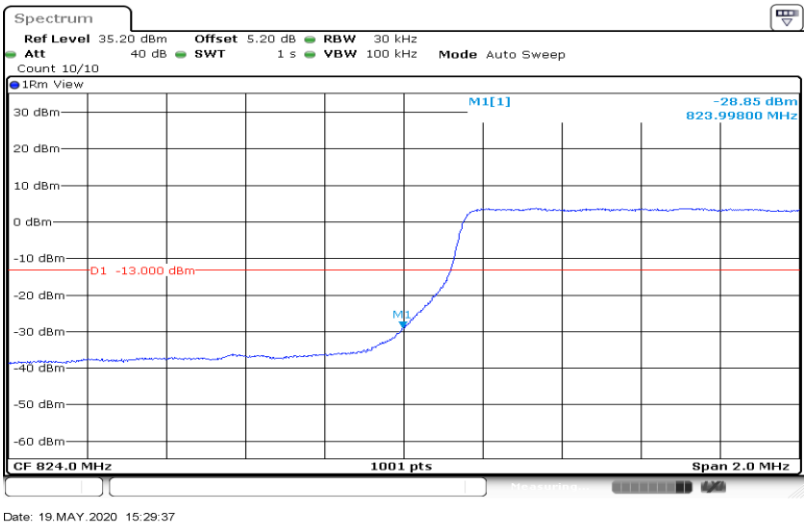

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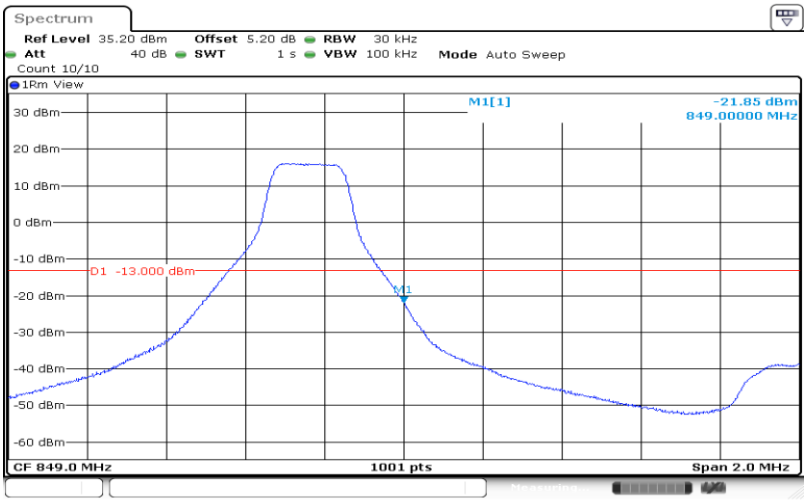

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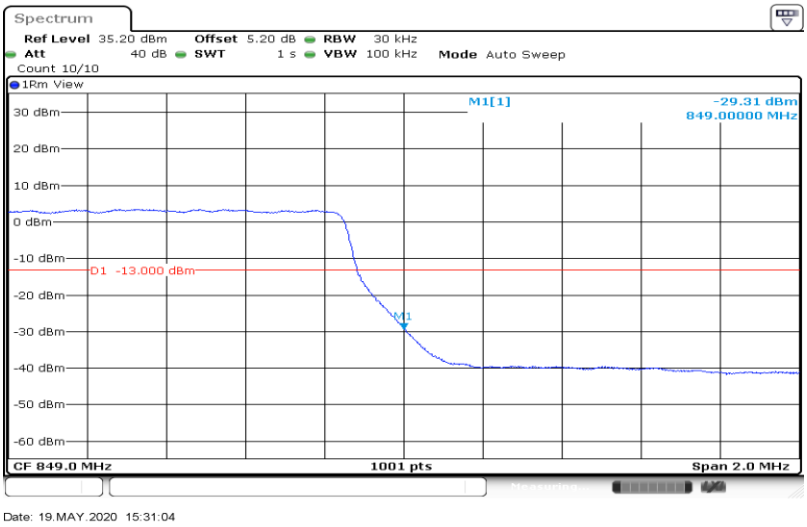

Band5-5MHz-QPSK-20425-1RB#0

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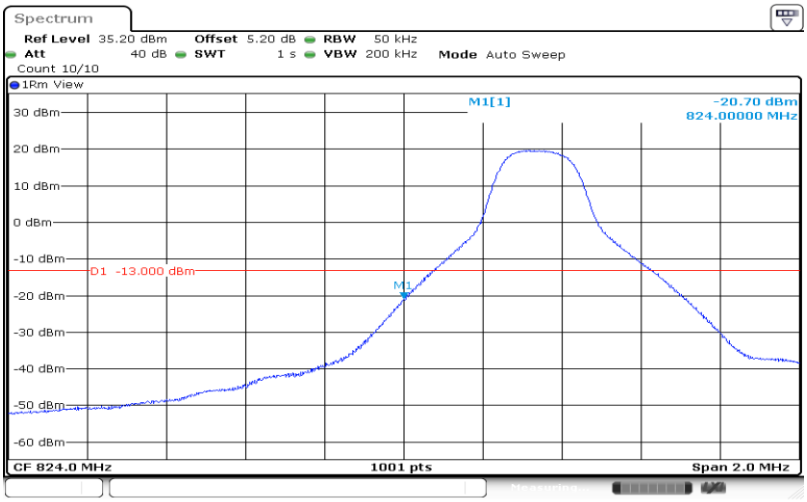

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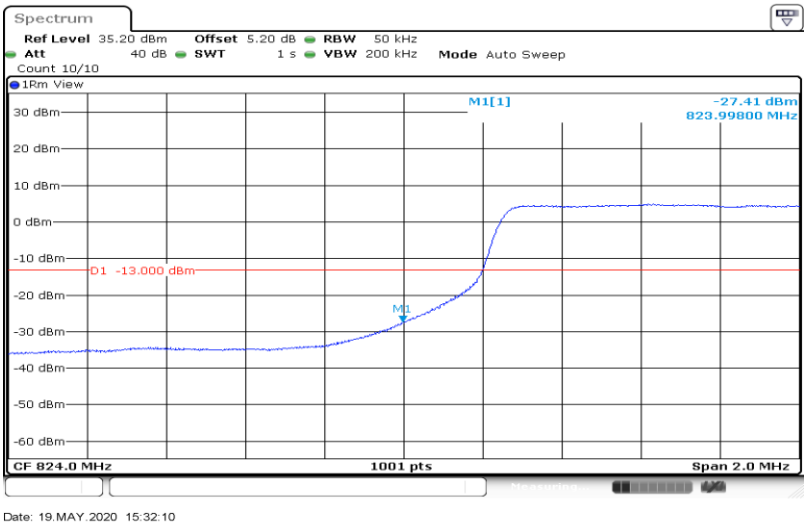

Band5-5MHz-QPSK-20625-1RB#24

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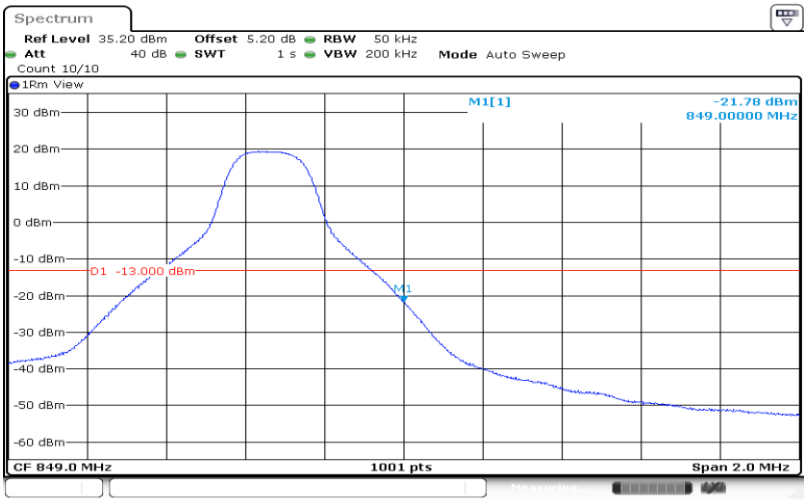

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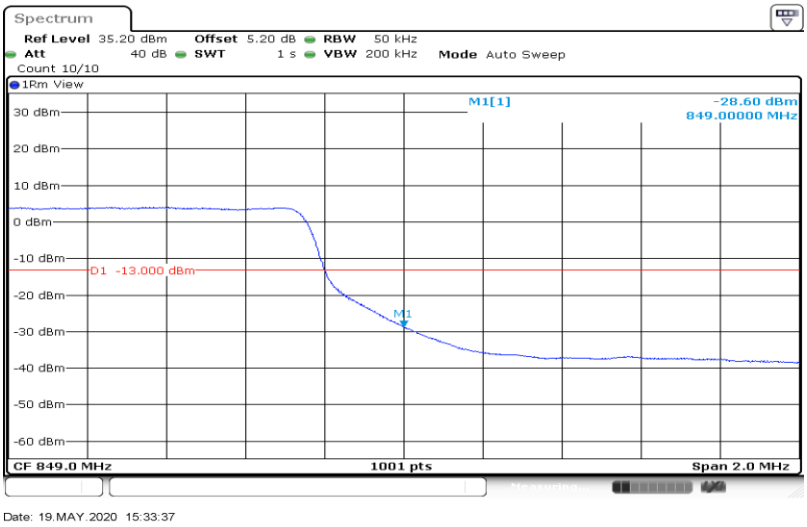

Band5-5MHz-64QAM-20425-1RB#0

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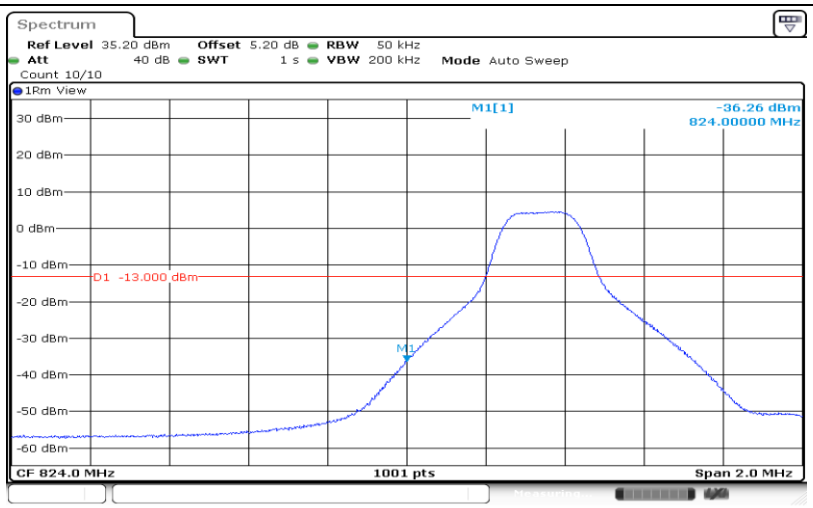
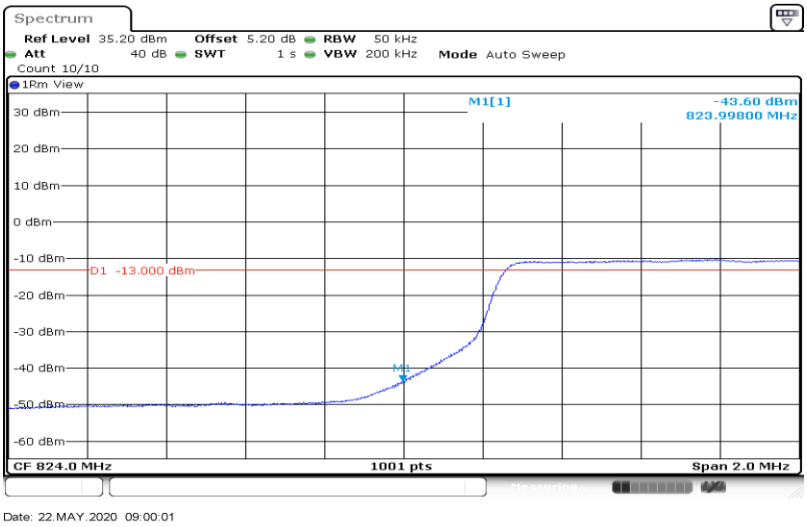


Band5-5MHz-64QAM-20425-25RB#0



Band5-5MHz-64QAM-20625-1RB#24

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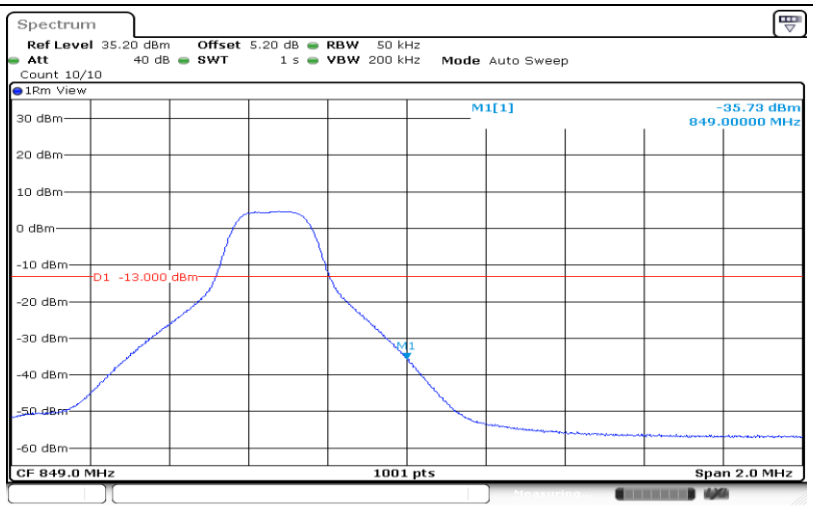

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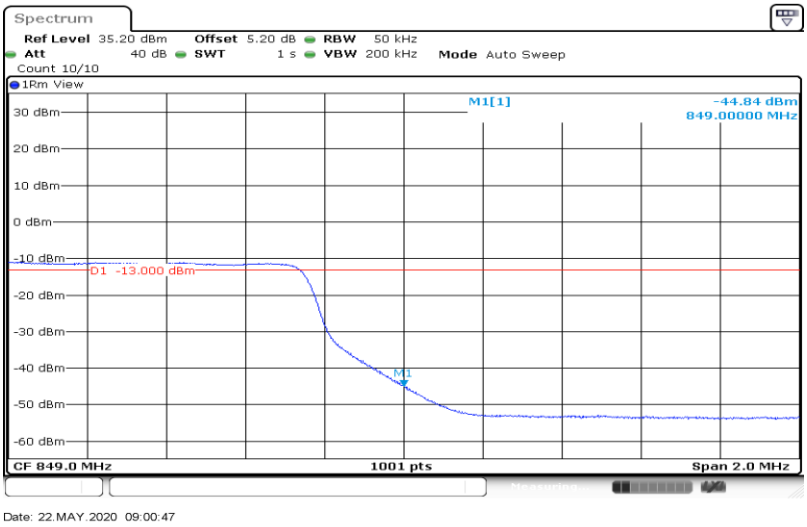

Band5-5MHz-16QAM-20425-1RB#0

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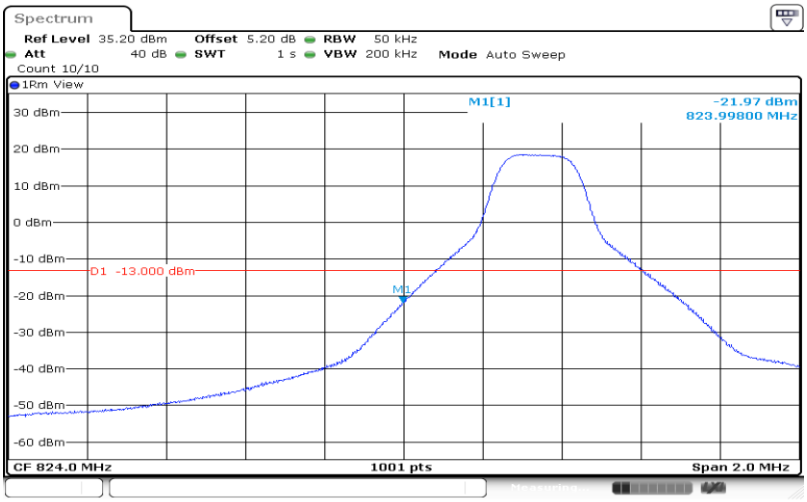

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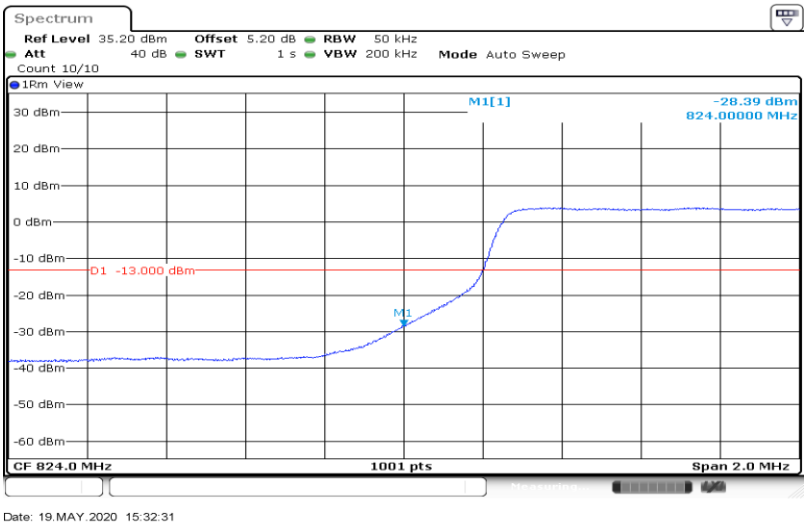

Band5-5MHz-16QAM-20625-1RB#24

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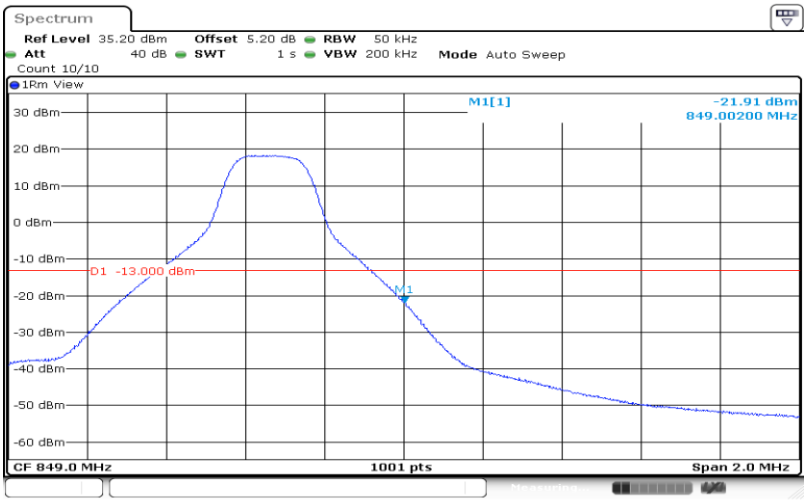

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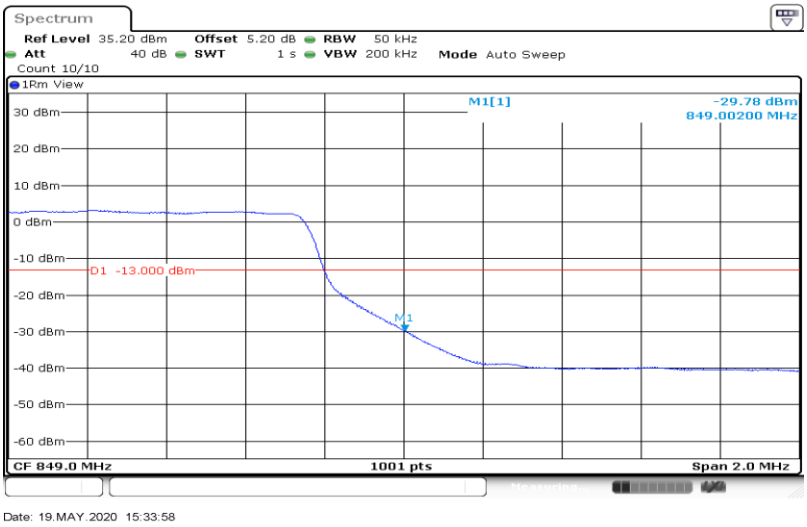

Band5-10MHz-QPSK-20450-1RB#0

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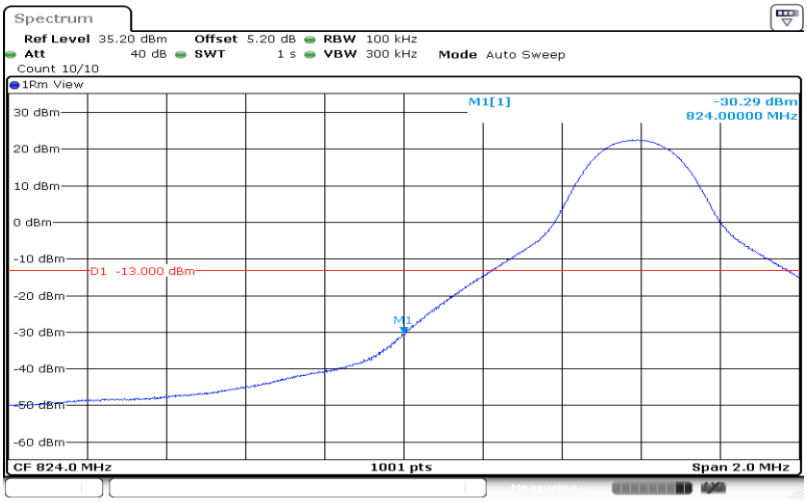
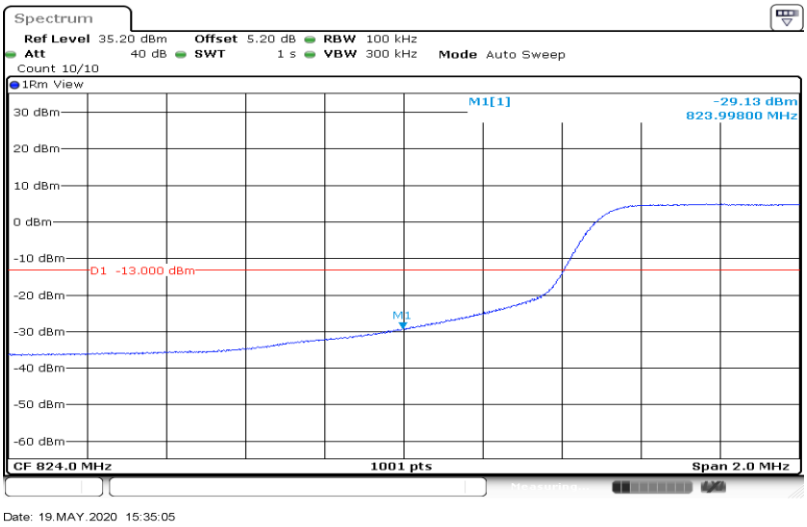


Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-1RB#49

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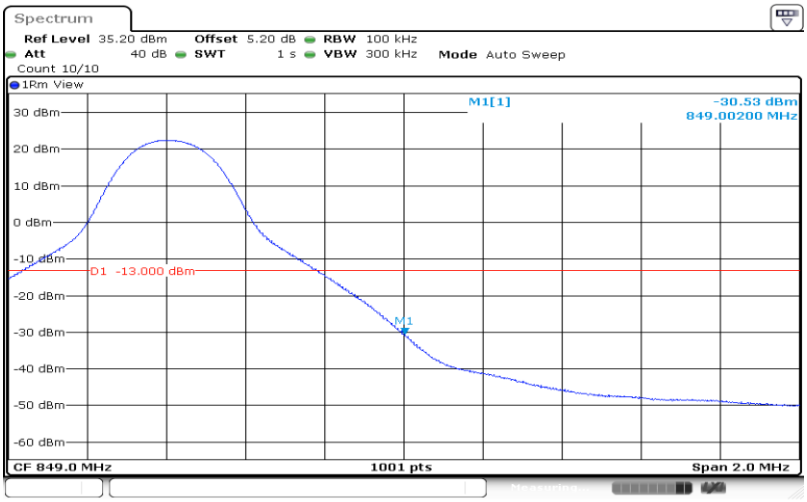
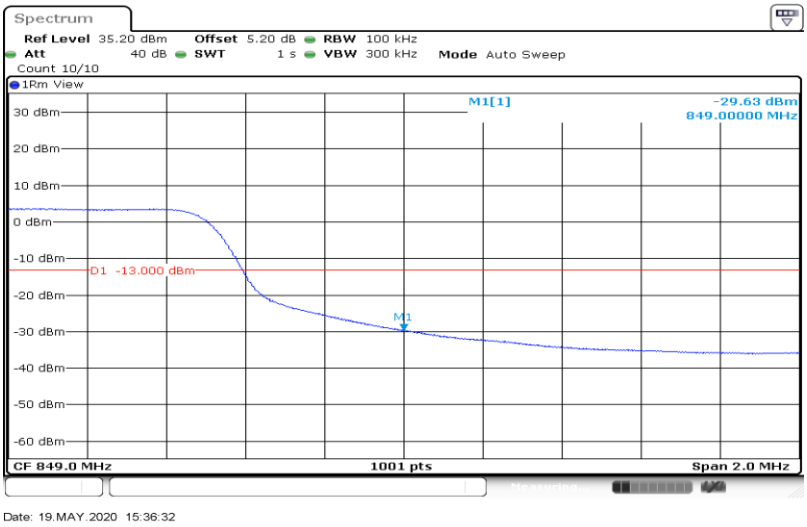


Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-64QAM-20450-1RB#0

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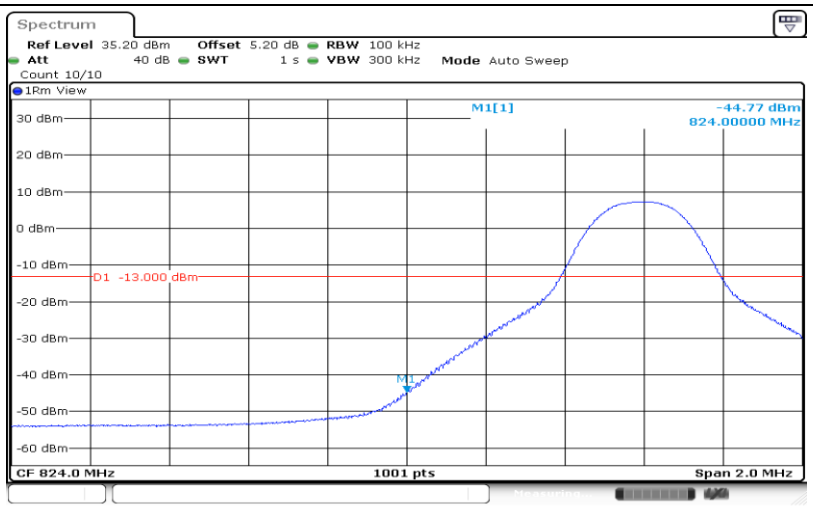

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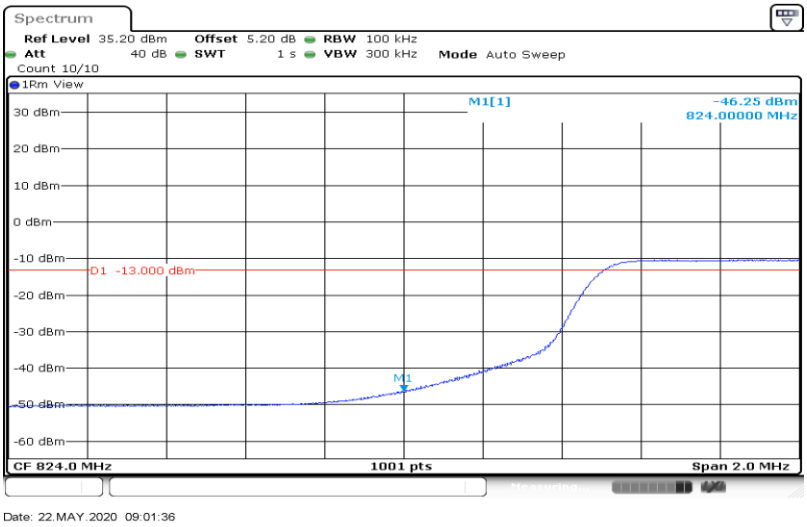

Band5-10MHz-64QAM-20600-1RB#49

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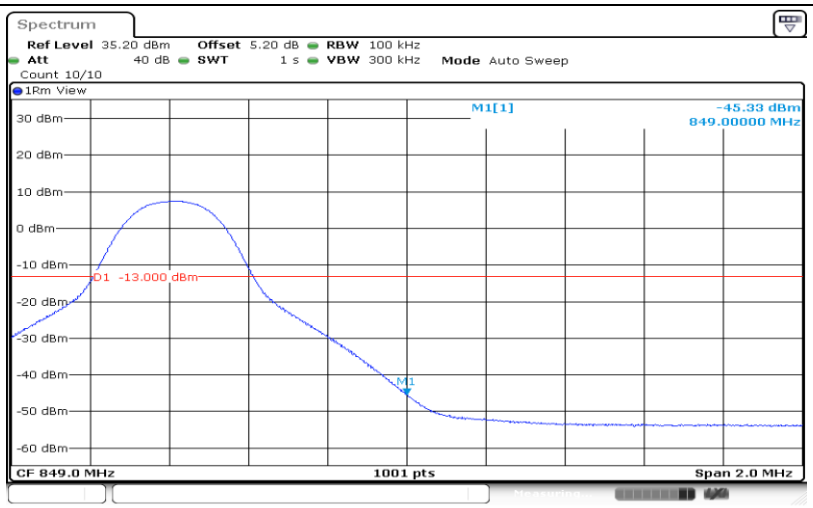

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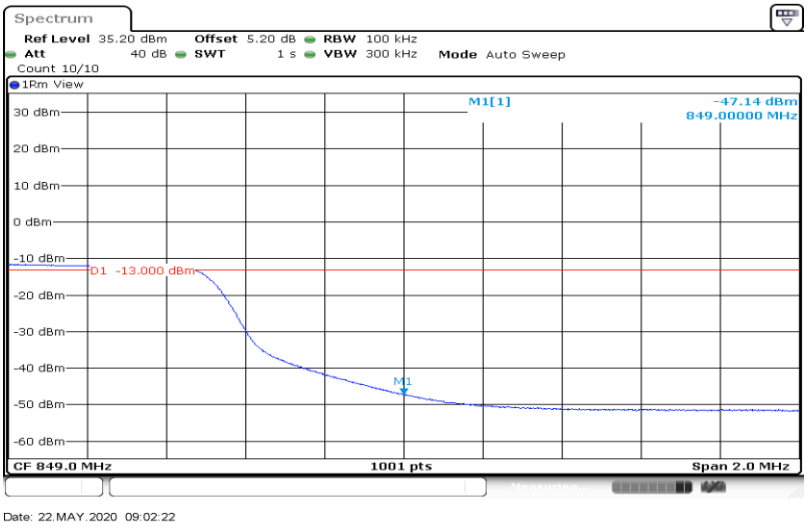

Band5-10MHz-16QAM-20450-1RB#0

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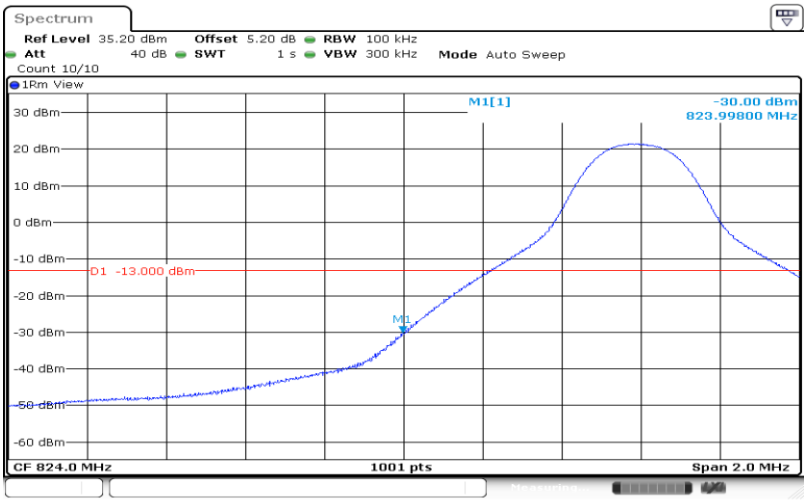

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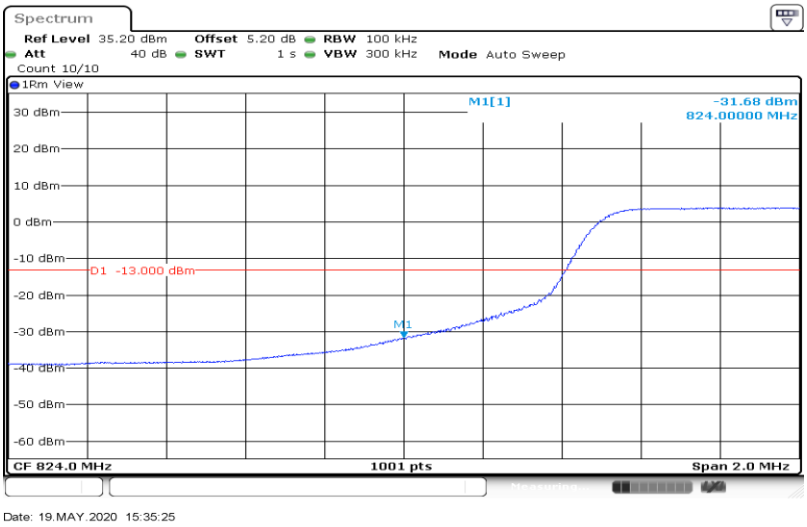

Band5-10MHz-16QAM-20600-1RB#49

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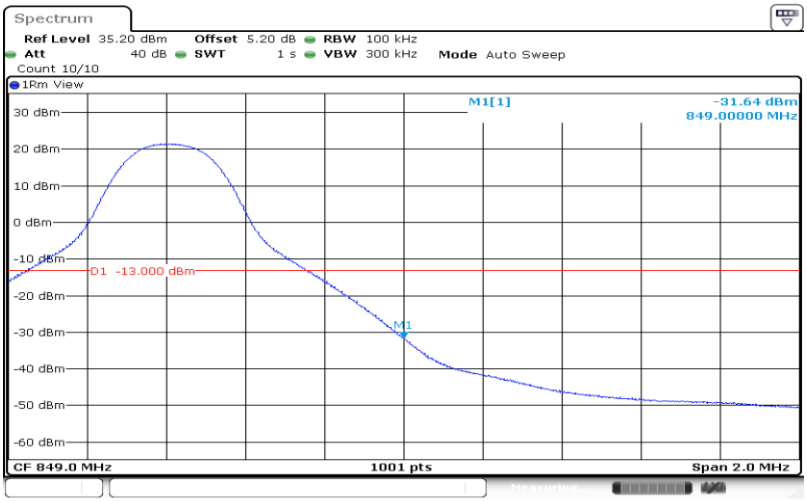

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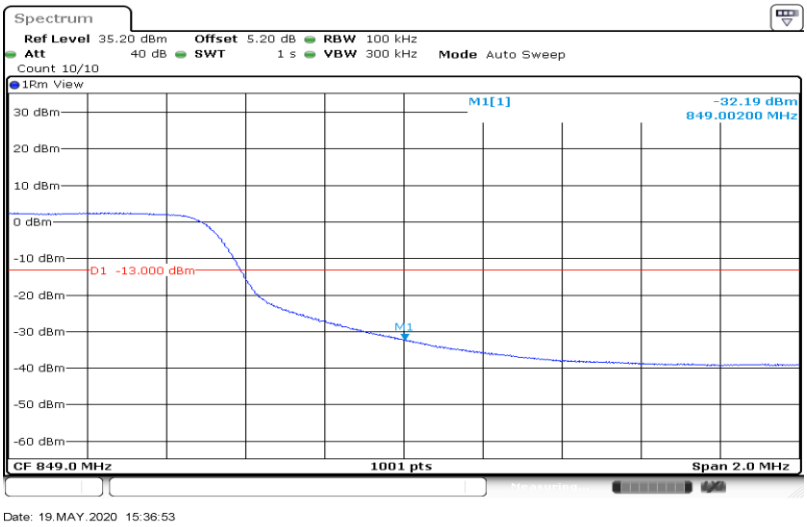

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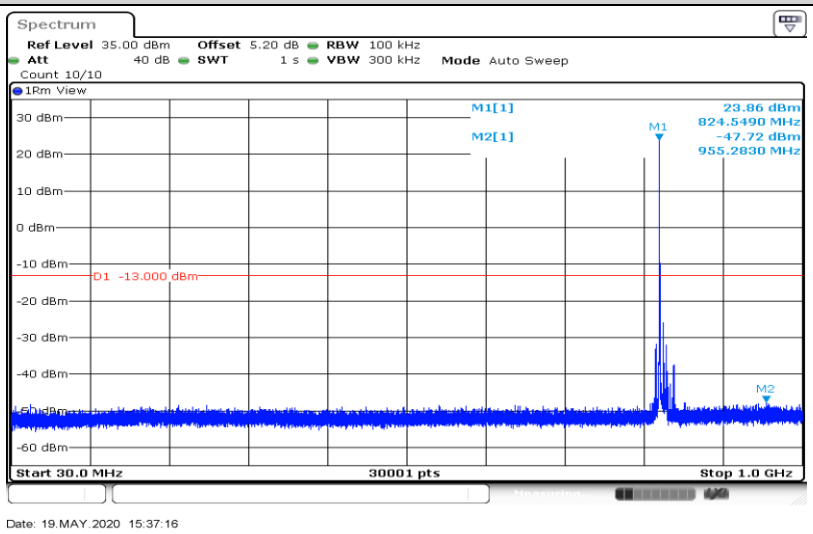
6. Spurious Emission at Antenna Terminal

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

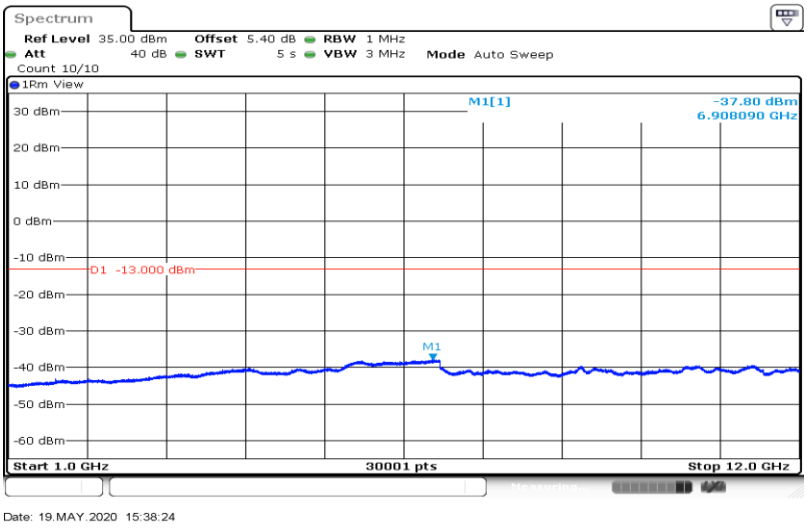
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

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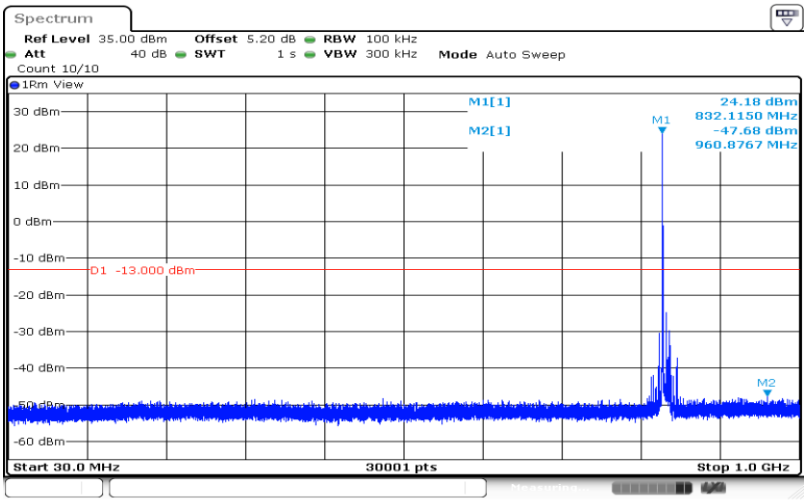
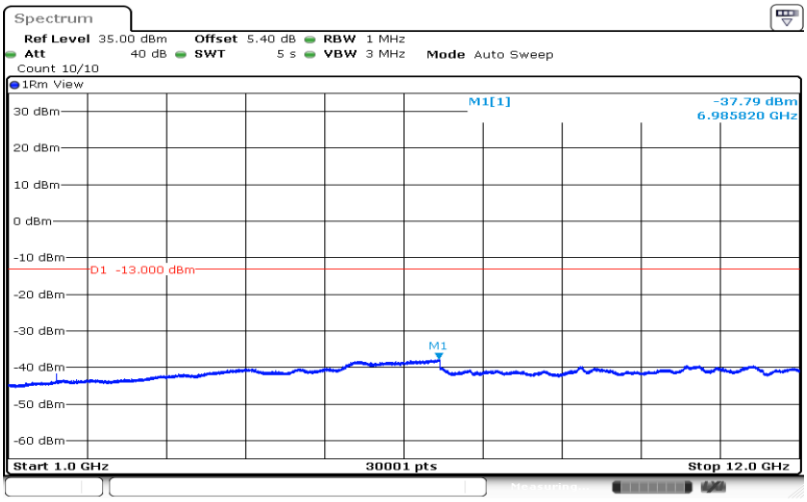


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

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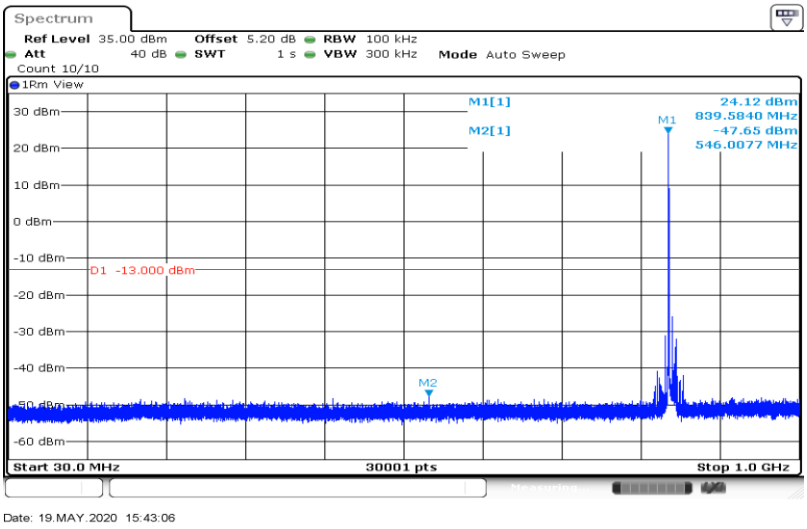

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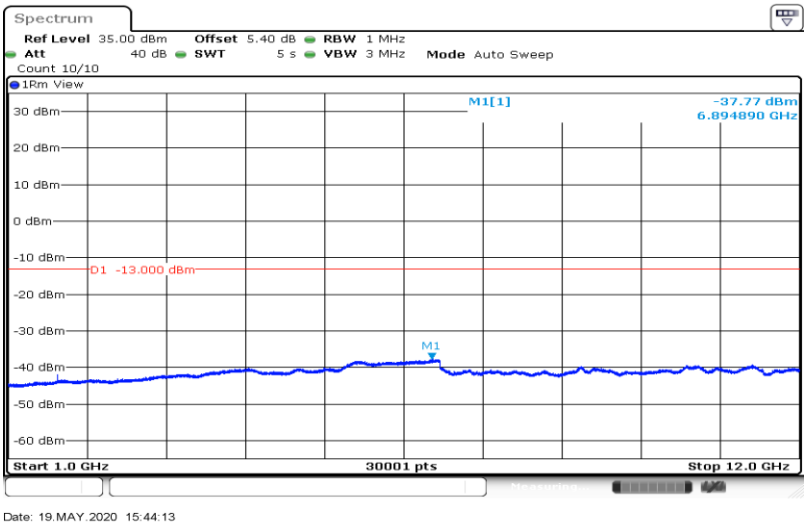

Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz

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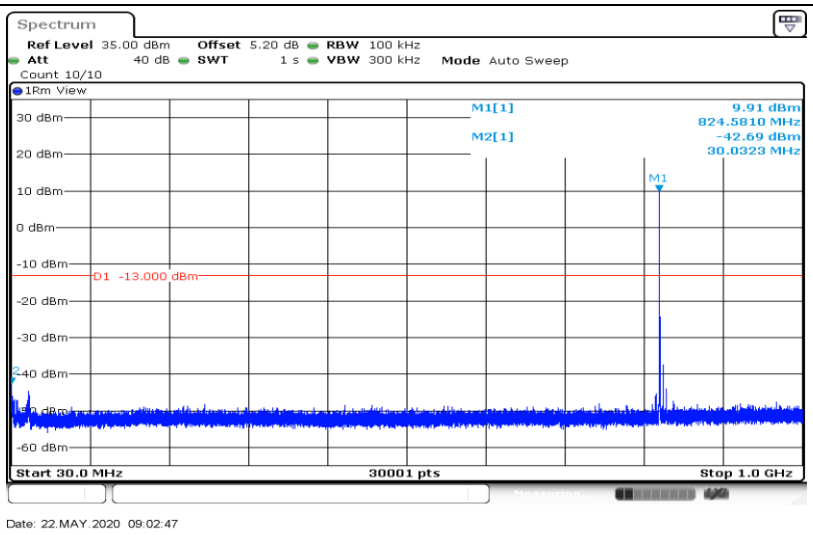

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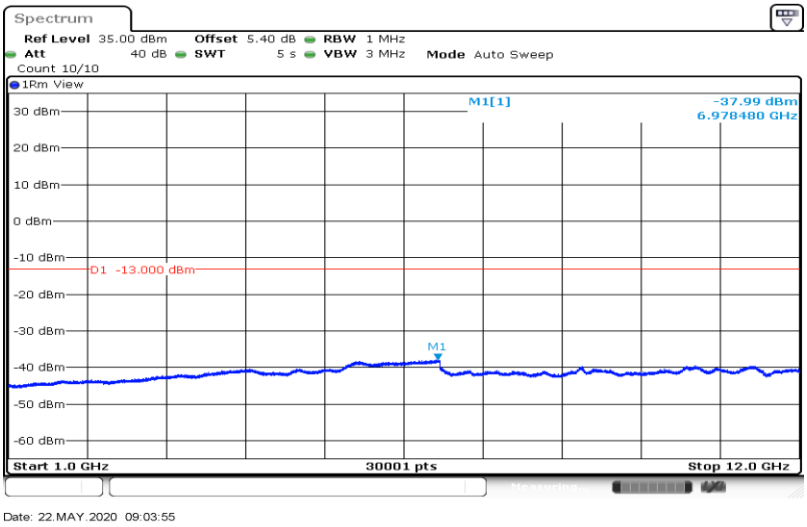

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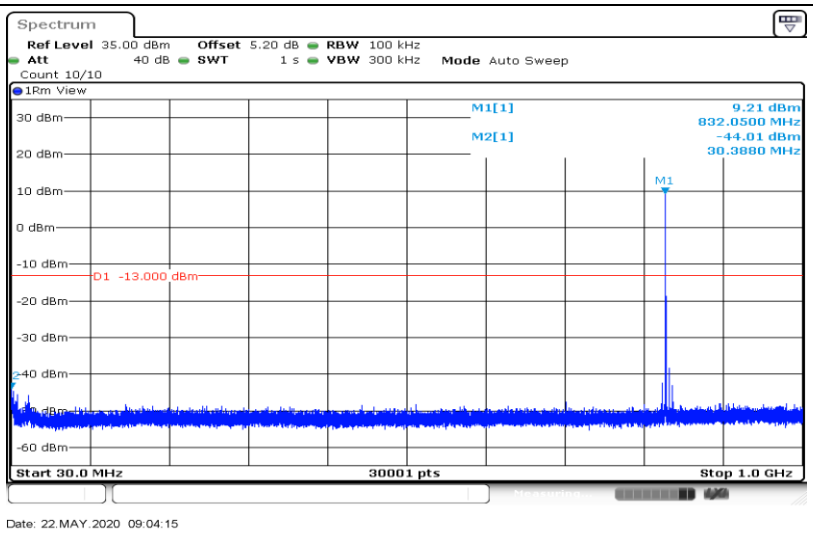

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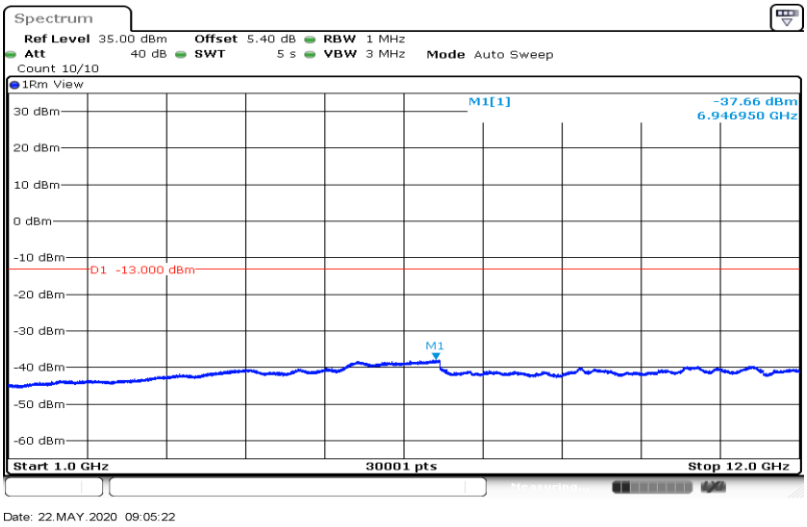

Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz

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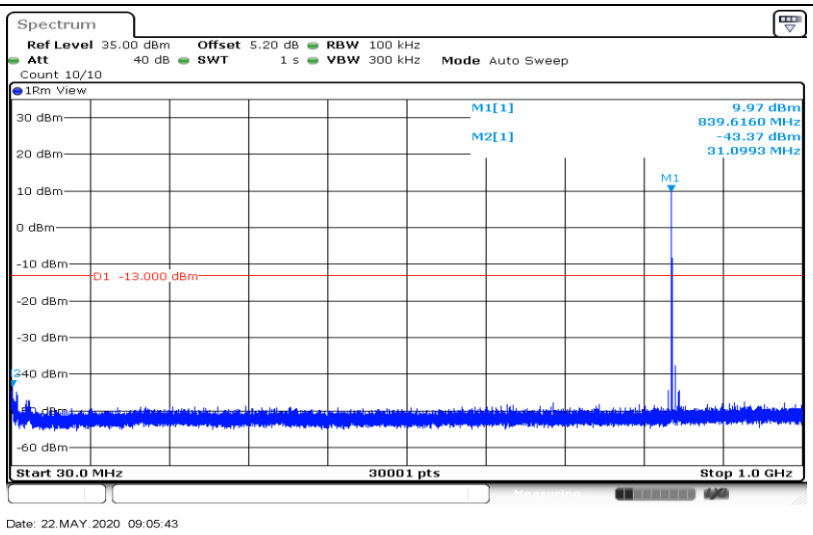

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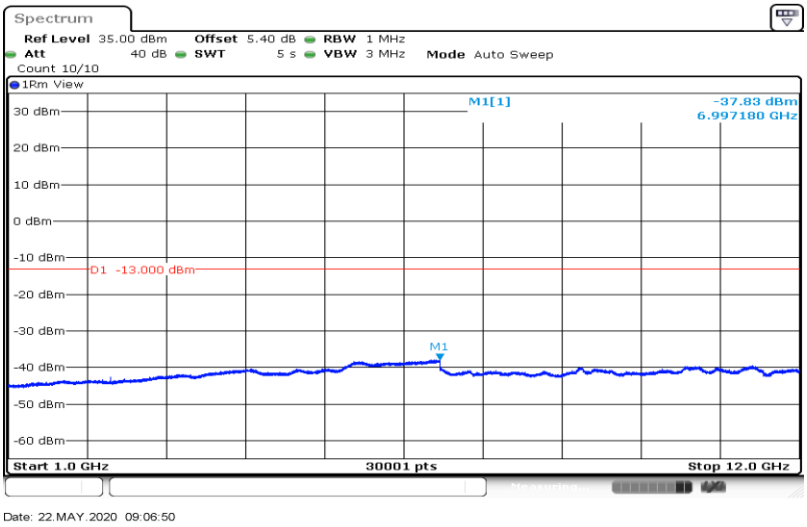

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

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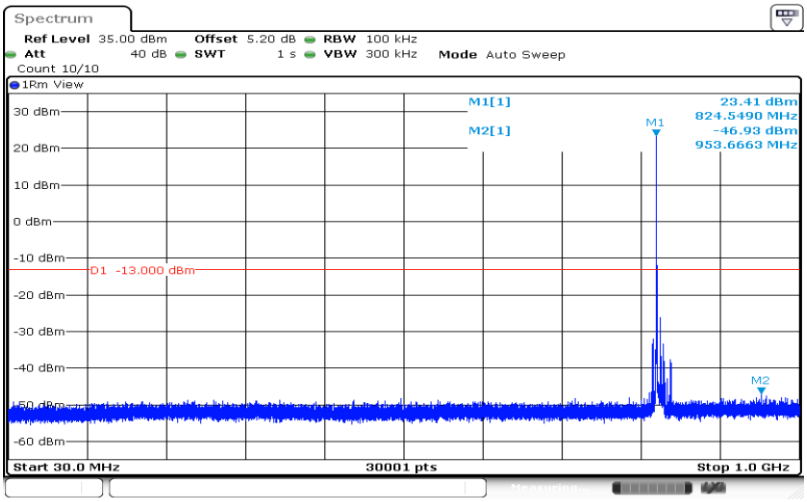

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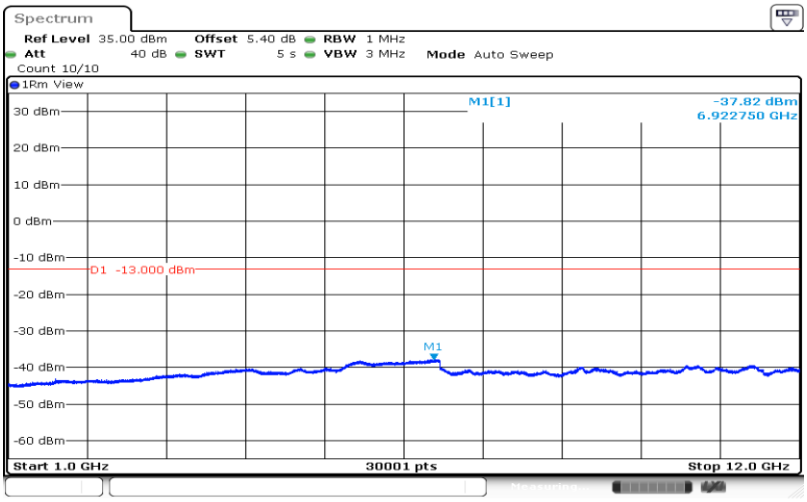

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Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz

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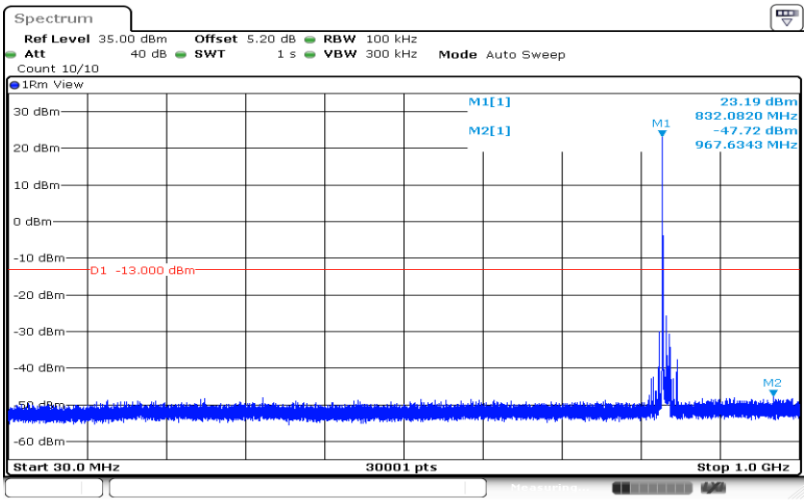

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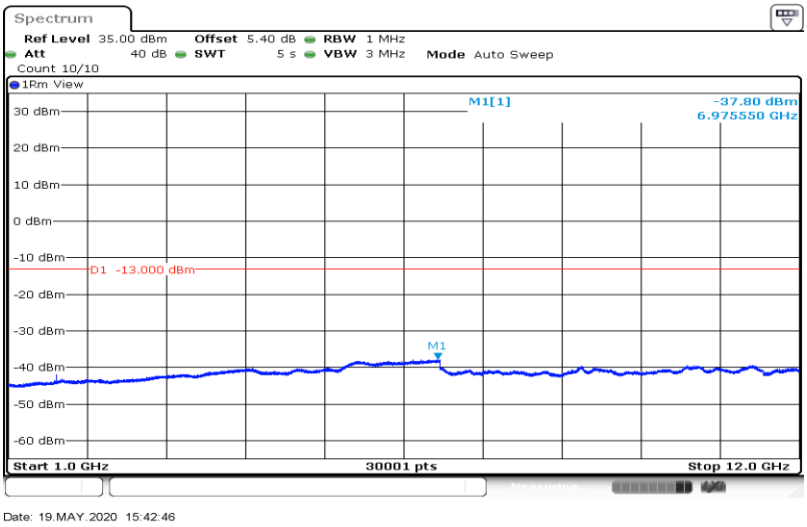

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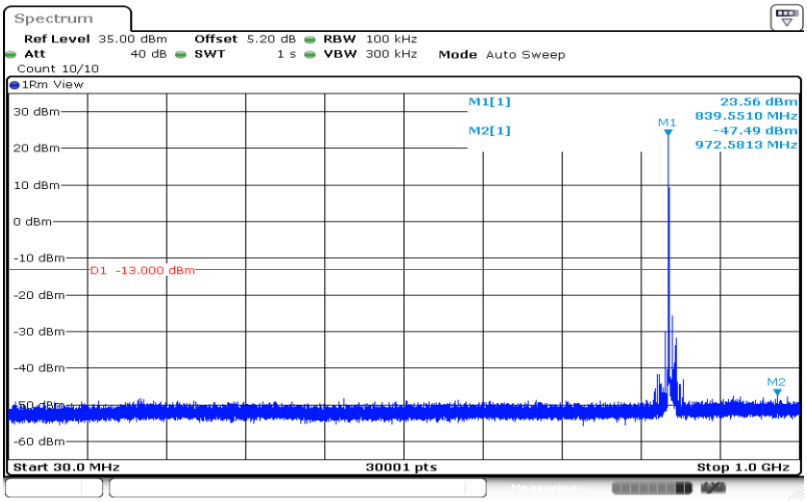

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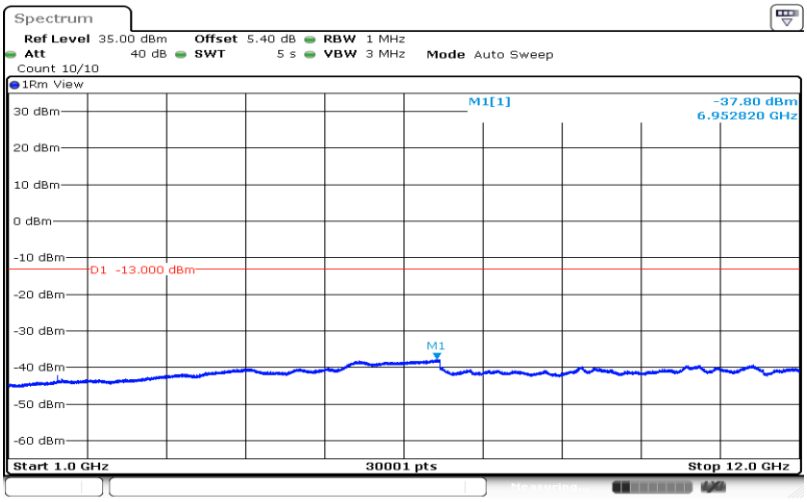

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.8835	-62.51	-13.00	49.51	Vertical
480.4420	-64.26	-13.00	51.26	Vertical
1648.9298	-53.02	-13.00	40.02	Vertical
3298.2099	-61.17	-13.00	48.17	Vertical
4123.0374	-60.02	-13.00	47.02	Vertical
8613.1871	-56.08	-13.00	43.08	Vertical
40.3795	-61.95	-13.00	48.95	Horizontal
535.9773	-62.17	-13.00	49.17	Horizontal
1648.9298	-50.35	-13.00	37.35	Horizontal
3298.4099	-57.81	-13.00	44.81	Horizontal
4122.8374	-59.88	-13.00	46.88	Horizontal
8749.3916	-55.75	-13.00	42.75	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.3685	-62.00	-13.00	49.00	Vertical
599.2245	-61.13	-13.00	48.13	Vertical
1664.1328	-57.63	-13.00	44.63	Vertical
3328.6110	-61.90	-13.00	48.90	Vertical
4160.2387	-60.29	-13.00	47.29	Vertical
8776.9926	-54.87	-13.00	41.87	Vertical
41.9316	-62.40	-13.00	49.40	Horizontal
539.0815	-62.49	-13.00	49.49	Horizontal
1664.1328	-52.59	-13.00	39.59	Horizontal
3328.2109	-58.69	-13.00	45.69	Horizontal
4160.4387	-61.04	-13.00	48.04	Horizontal
8799.5933	-54.97	-13.00	41.97	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.1560	-63.24	-13.00	50.24	Vertical
576.7193	-62.43	-13.00	49.43	Vertical
1678.9358	-56.84	-13.00	43.84	Vertical
3358.8120	-63.54	-13.00	50.54	Vertical
5037.6679	-60.60	-13.00	47.60	Vertical
8864.5955	-54.64	-13.00	41.64	Vertical
39.5550	-63.02	-13.00	50.02	Horizontal
566.5338	-62.22	-13.00	49.22	Horizontal
1678.9358	-53.54	-13.00	40.54	Horizontal
3358.6120	-59.89	-13.00	46.89	Horizontal
5037.6679	-61.59	-13.00	48.59	Horizontal
8858.3953	-55.17	-13.00	42.17	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 displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	4.20	0.005066	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	0.80	0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.90	0.001066	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	0.90	0.001066	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	1.40	0.001689	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	1.10	0.001315	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.70	-0.000829	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

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Band5	10MHz	QPSK	20450	50RB#0	NV	-30	1.00	0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	1.80	0.002171	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.40	0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	1.70	0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	1.00	0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	0.90	0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	0.90	0.001086	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.80	0.000948	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	0.50	0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-2.20	-0.002654	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-2.40	-0.002895	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	0.90	0.001086	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	0.10	0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	1.00	0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-2.10	-0.002510	±2.5	PASS

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Band5	10MHz	64QAM	20525	50RB#0	NV	40	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	1.50	0.001777	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	1.00	0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	0.40	0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	2.30	0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	0.40	0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	0.90	0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.30	0.000359	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.60	0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	1.40	0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.50	-0.000592	±2.5	PASS

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