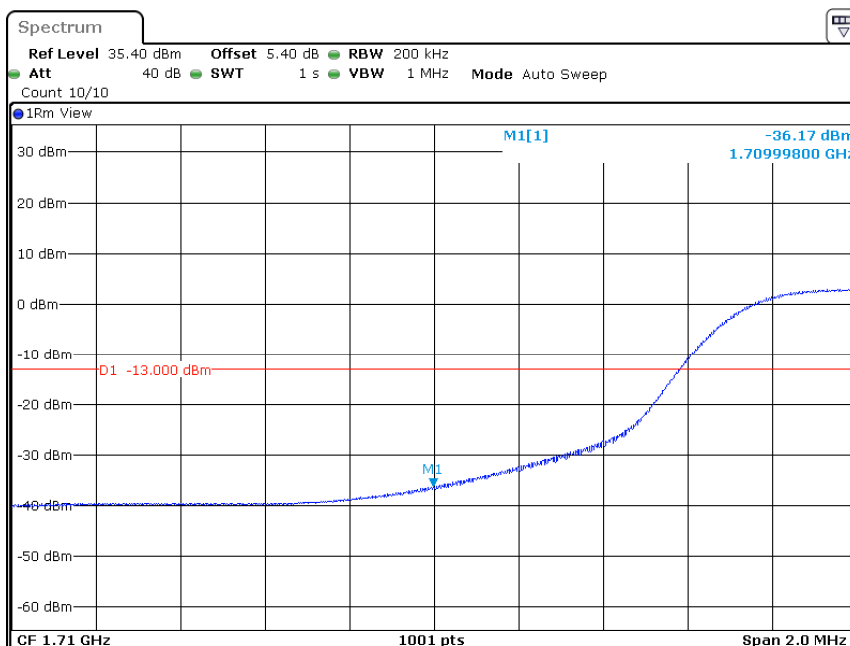


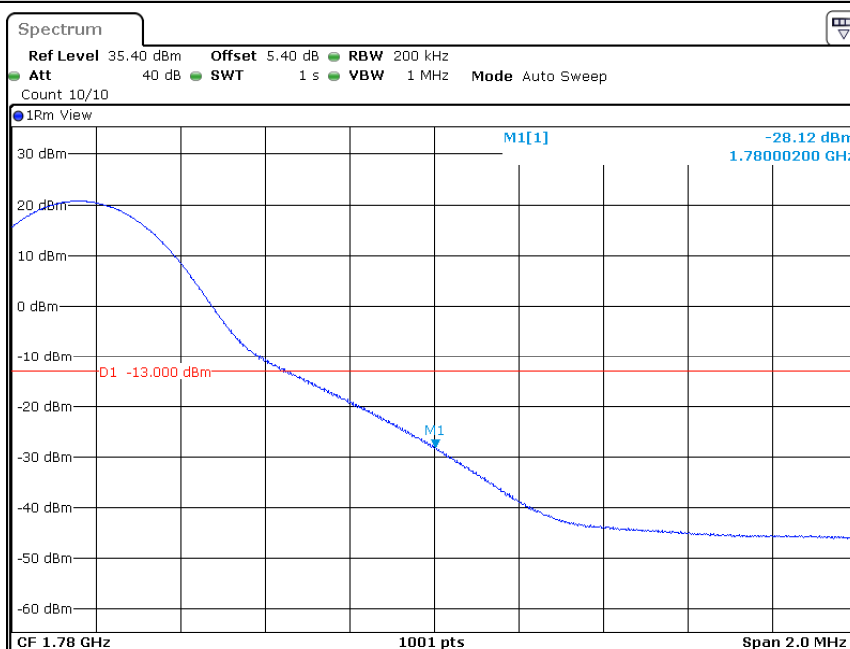


Band66-15MHz-64QAM-132047-75RB#0



Date: 7.SEP.2020 14:11:35

Band66-15MHz-64QAM-132597-1RB#74



Date: 7.SEP.2020 14:12:01



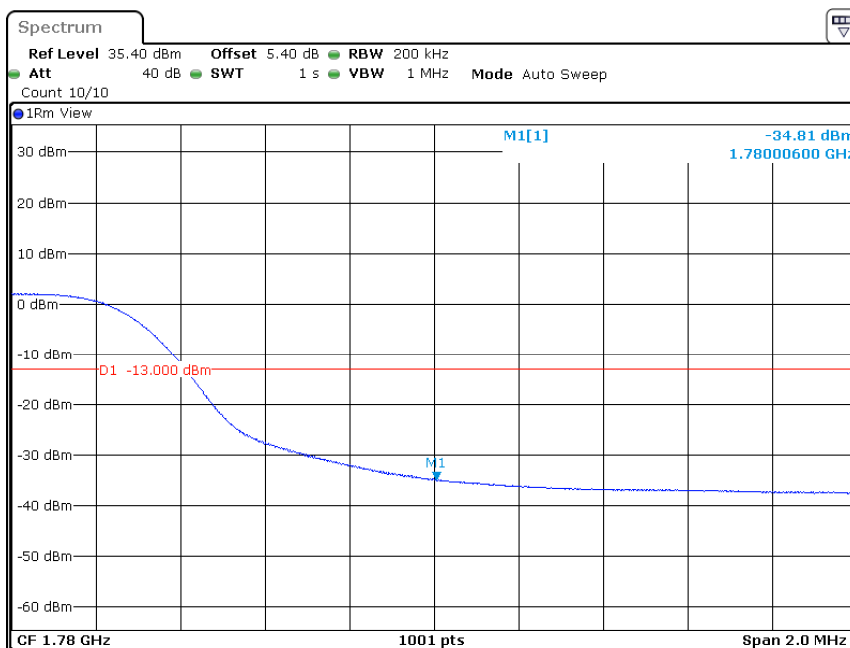
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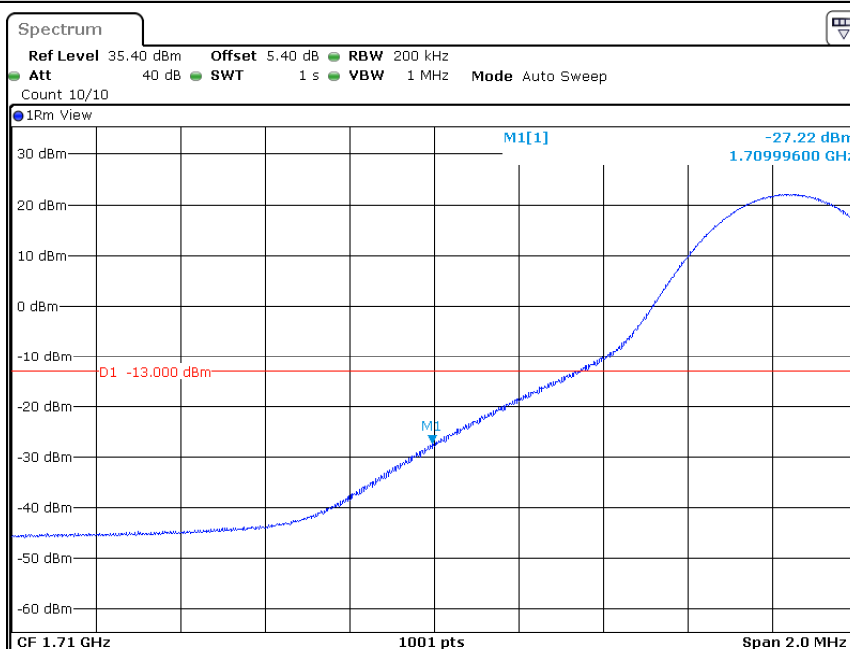


Band66-15MHz-64QAM-132597-75RB#0



Date: 7.SEP.2020 14:12:21

Band66-15MHz-16QAM-132047-1RB#0



Date: 7.SEP.2020 13:07:36



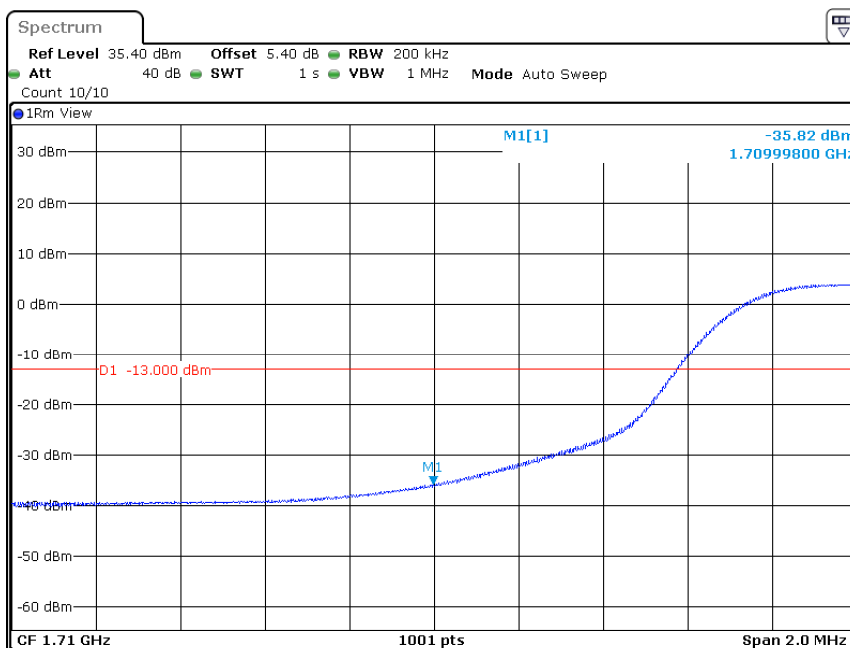
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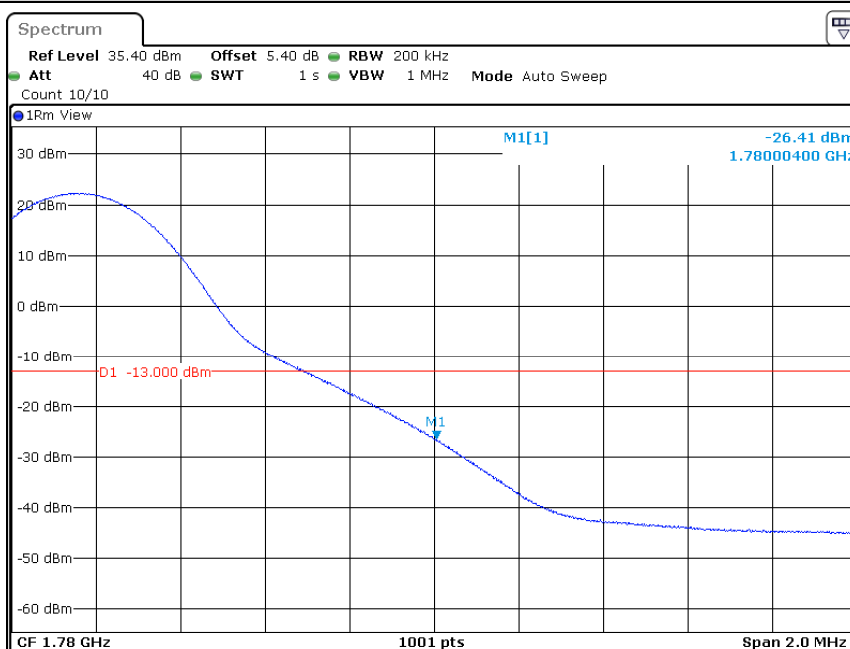


Band66-15MHz-16QAM-132047-75RB#0



Date: 7.SEP.2020 13:08:17

Band66-15MHz-16QAM-132597-1RB#74



Date: 7.SEP.2020 13:09:02



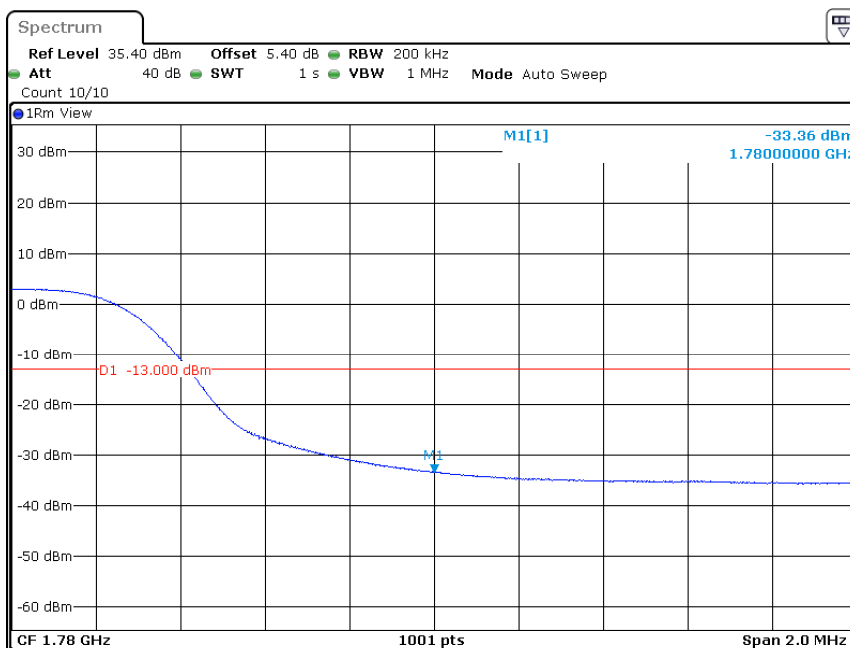
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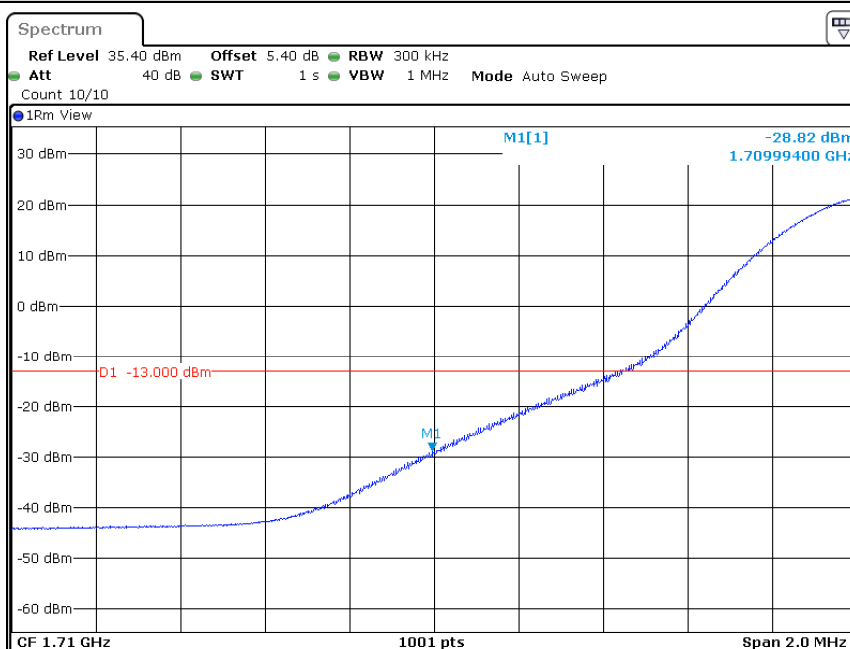


Band66-15MHz-16QAM-132597-75RB#0



Date: 7.SEP.2020 13:09:44

Band66-20MHz-QPSK-132072-1RB#0



Date: 7.SEP.2020 13:10:10



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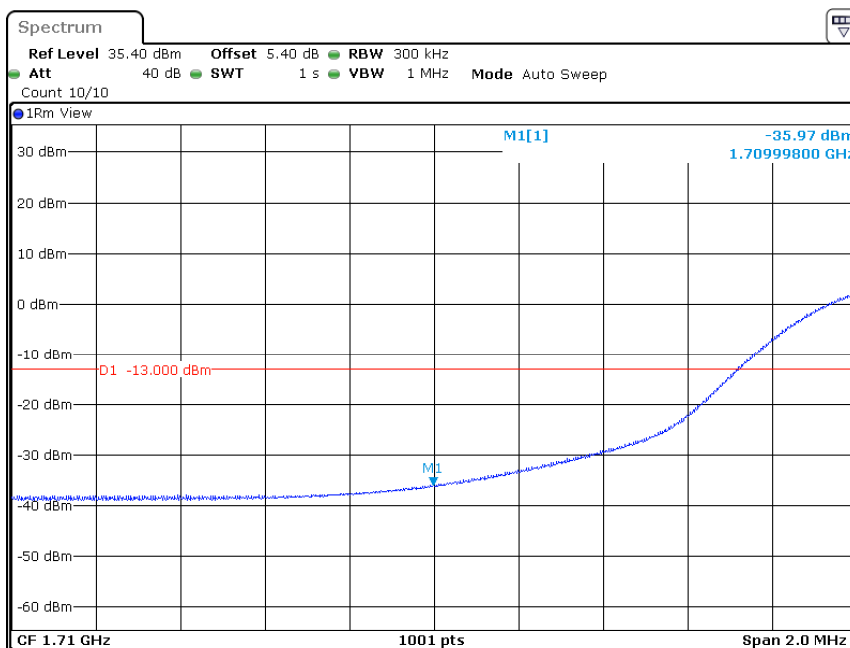
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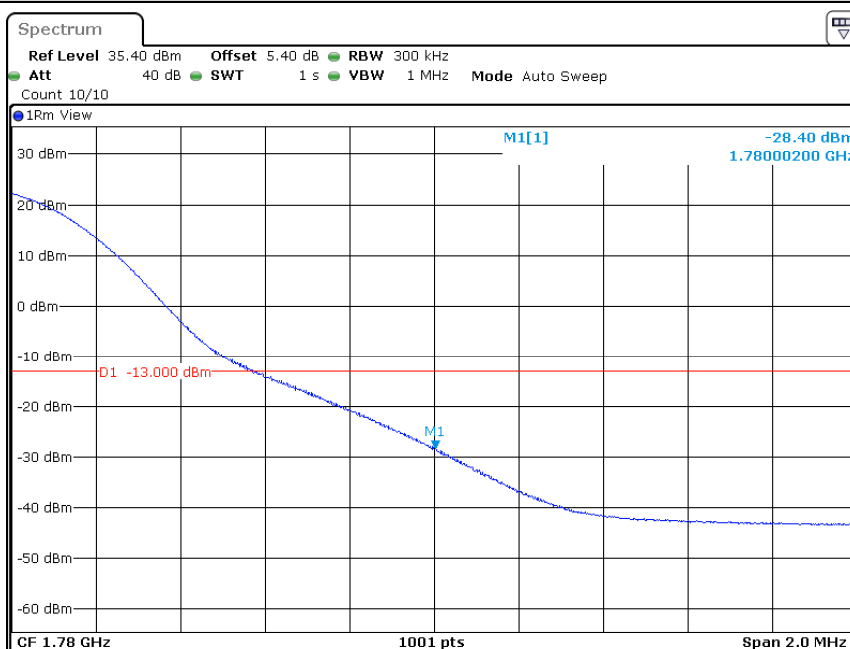


Band66-20MHz-QPSK-132072-100RB#0



Date: 7.SEP.2020 13:10:51

Band66-20MHz-QPSK-132572-1RB#99



Date: 7.SEP.2020 13:11:36



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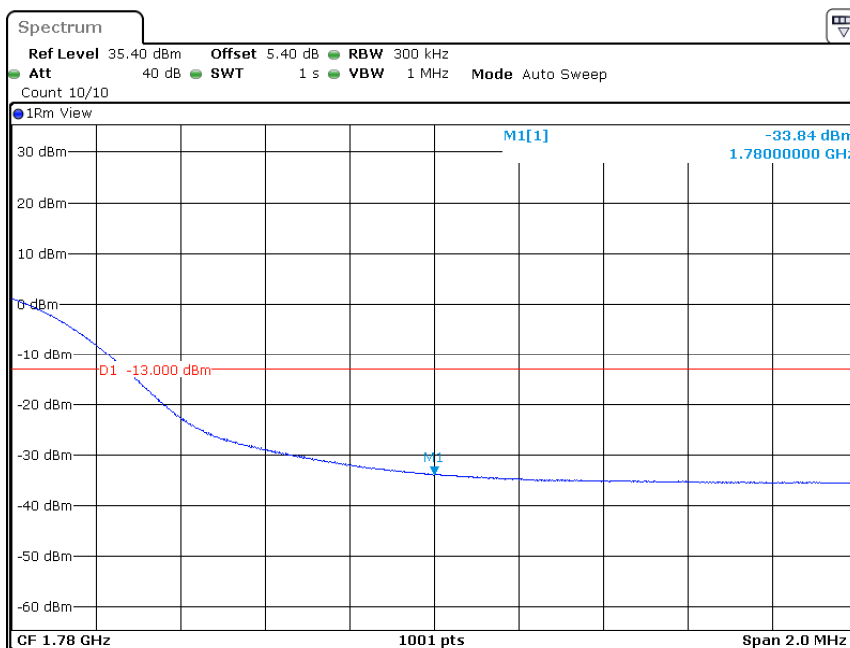
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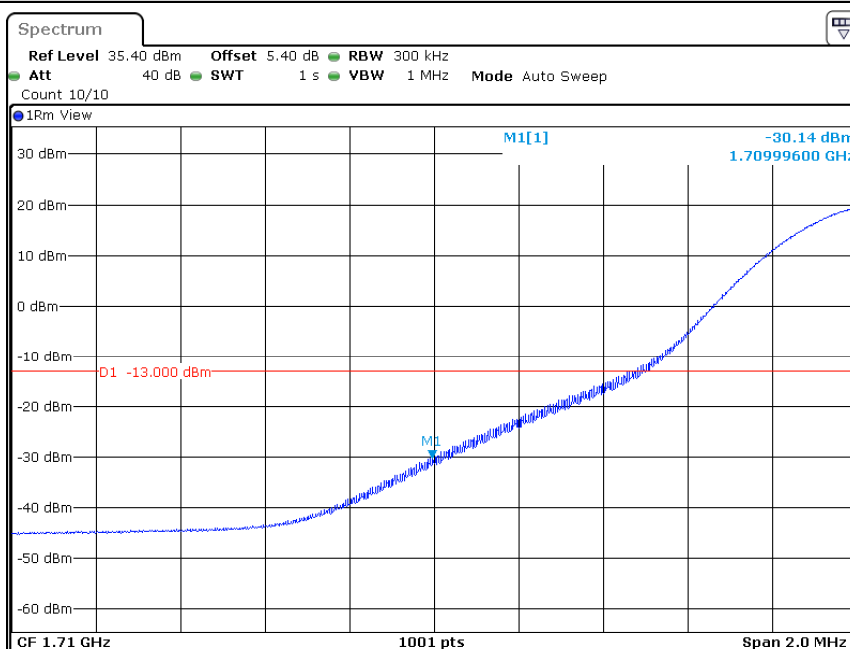


Band66-20MHz-QPSK-132572-100RB#0



Date: 7.SEP.2020 13:12:18

Band66-20MHz-64QAM-132072-1RB#0



Date: 7.SEP.2020 14:12:49



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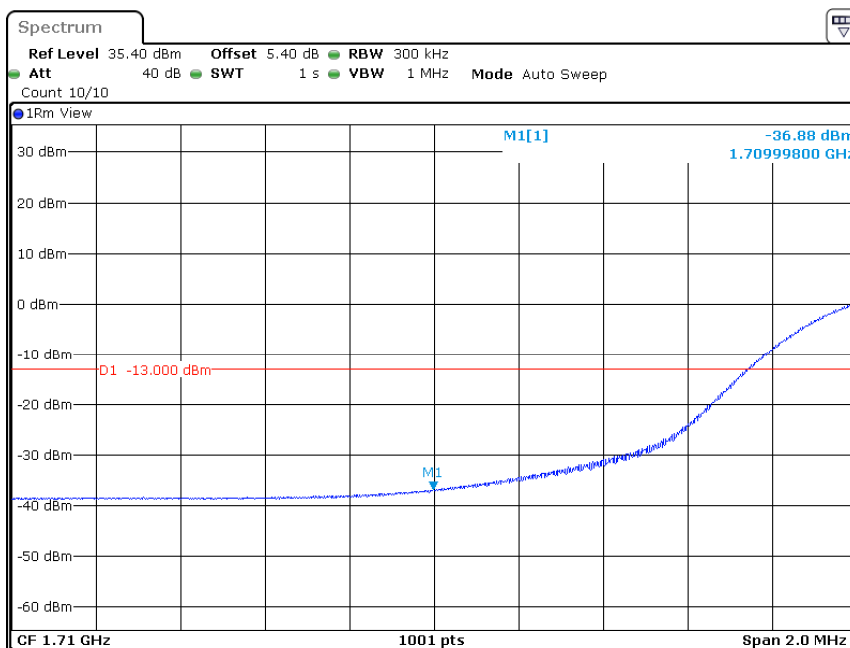
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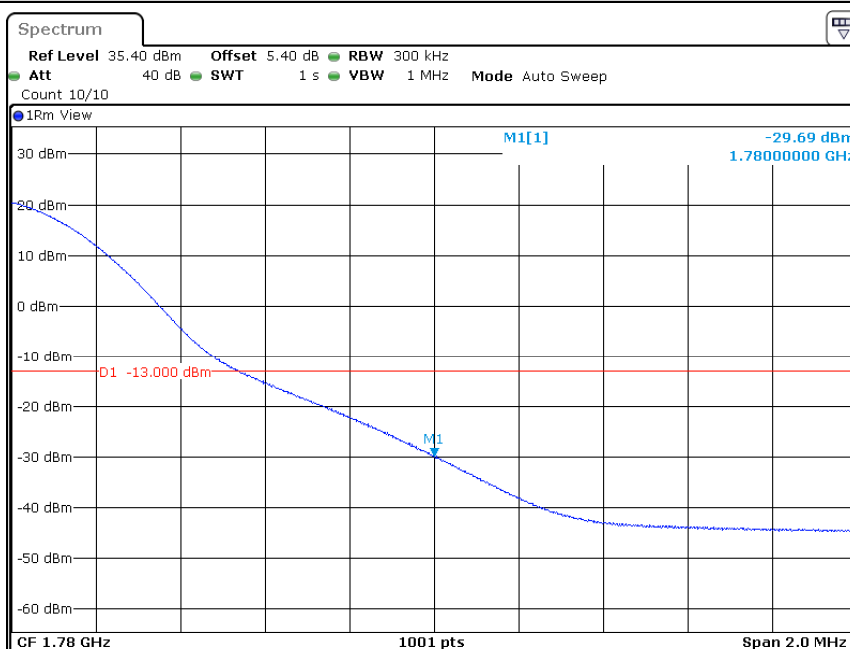


Band66-20MHz-64QAM-132072-100RB#0



Date: 7.SEP.2020 14:13:09

Band66-20MHz-64QAM-132572-1RB#99



Date: 7.SEP.2020 14:13:35



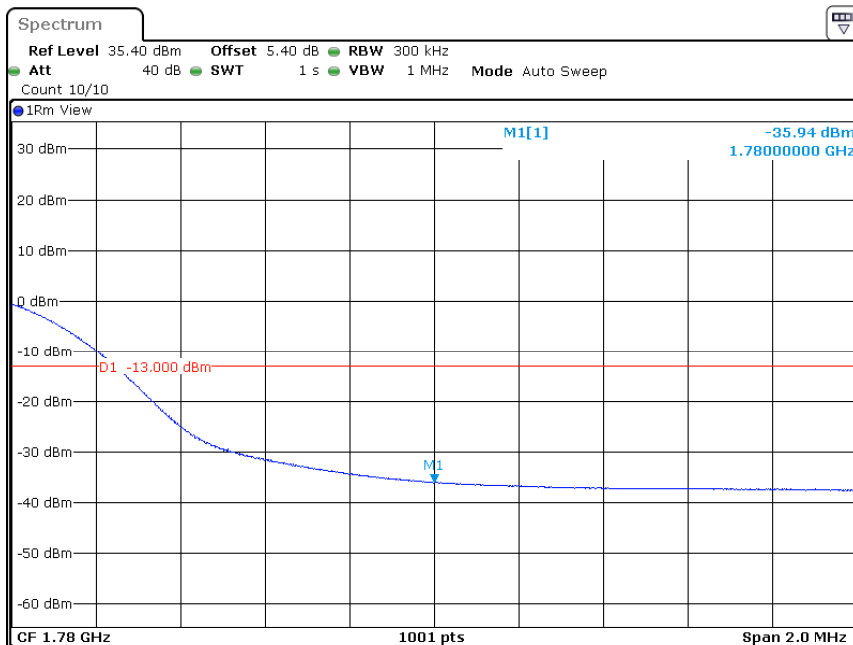
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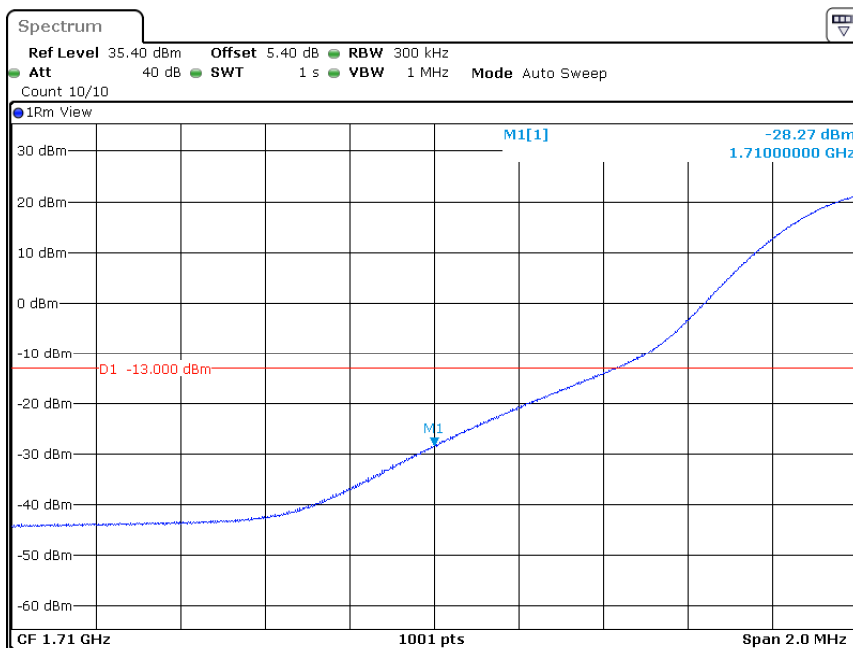


Band66-20MHz-64QAM-132572-100RB#0



Date: 7.SEP.2020 14:13:55

Band66-20MHz-16QAM-132072-1RB#0



Date: 7.SEP.2020 13:10:30



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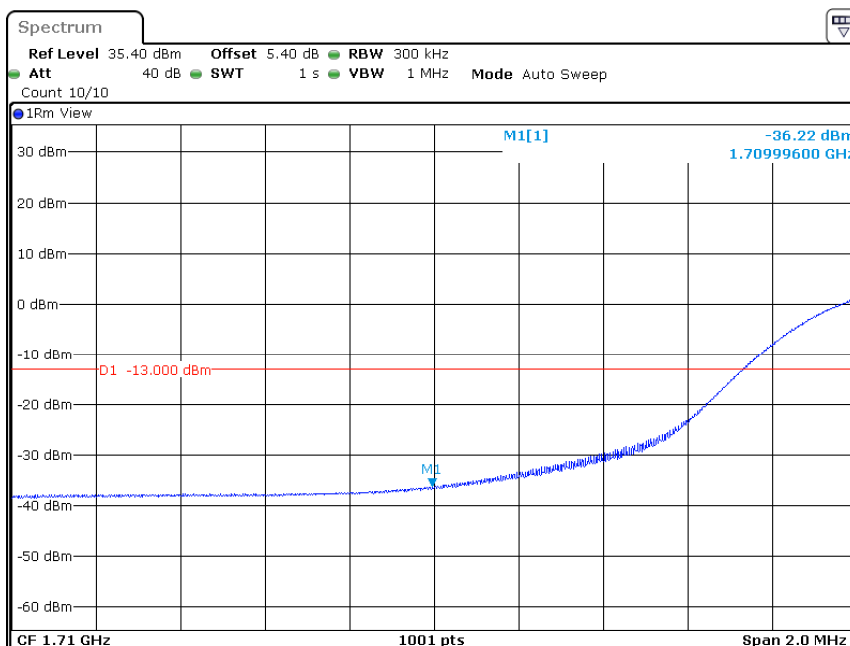
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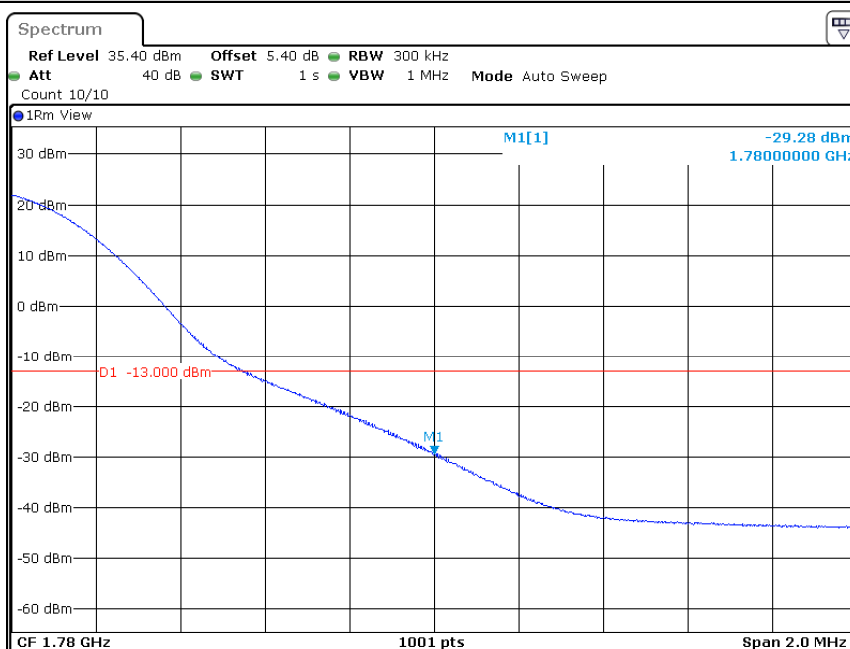


Band66-20MHz-16QAM-132072-100RB#0



Date: 7.SEP.2020 13:11:12

Band66-20MHz-16QAM-132572-1RB#99



Date: 7.SEP.2020 13:11:57



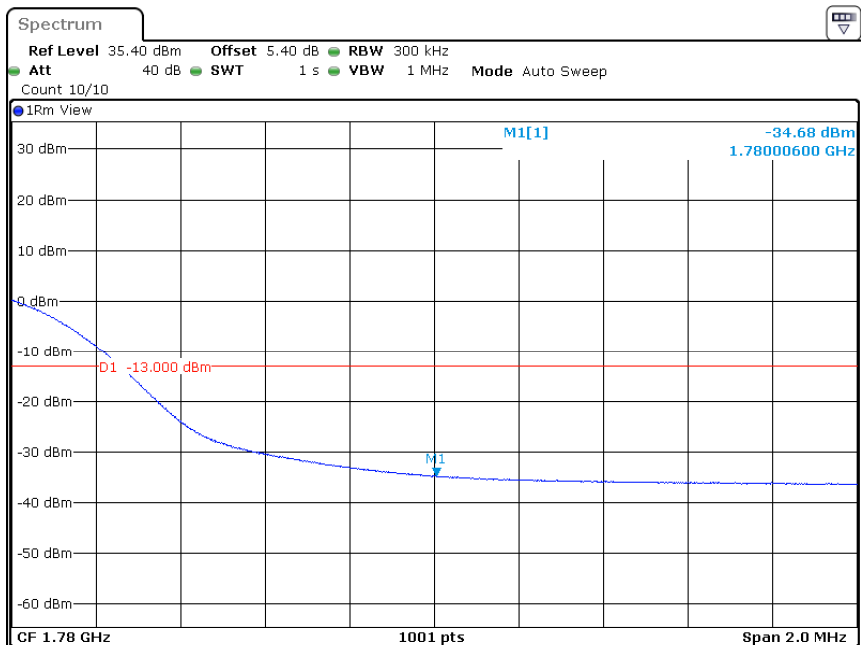
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Band66-20MHz-16QAM-132572-100RB#0



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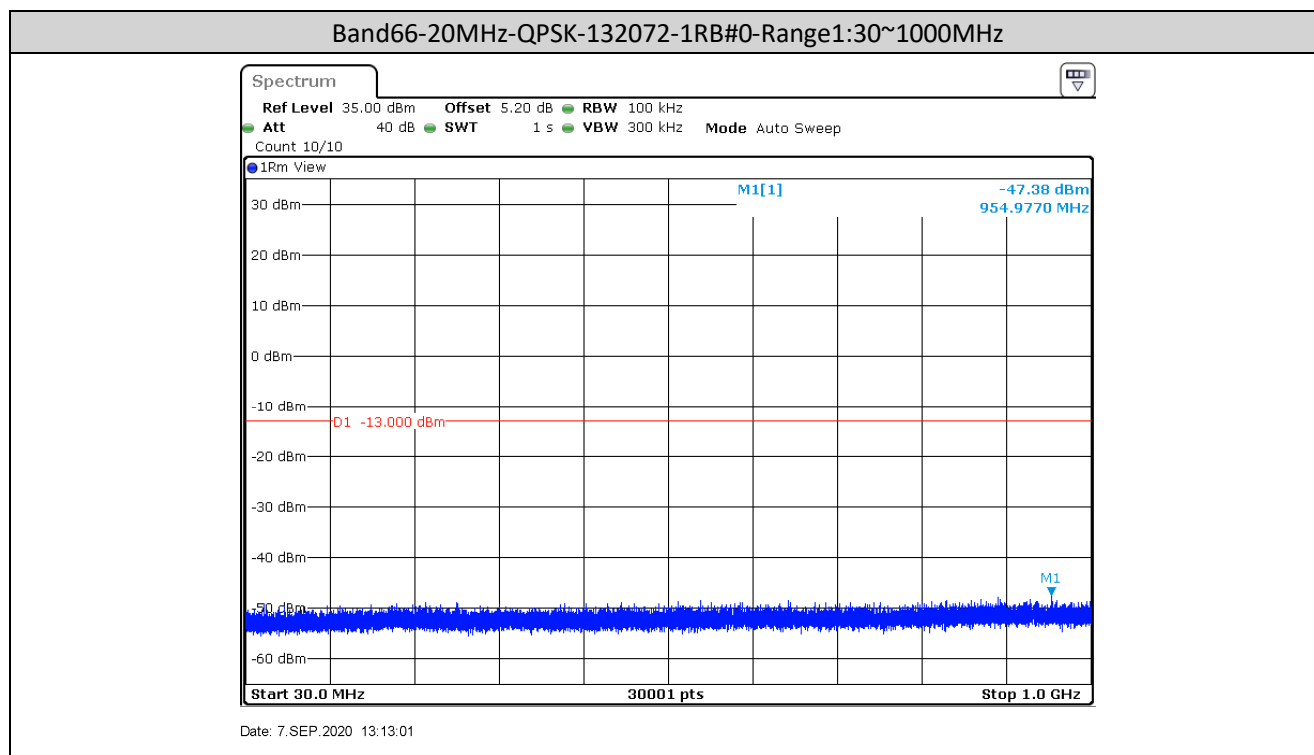
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## 6. Spurious Emission at Antenna Terminal

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



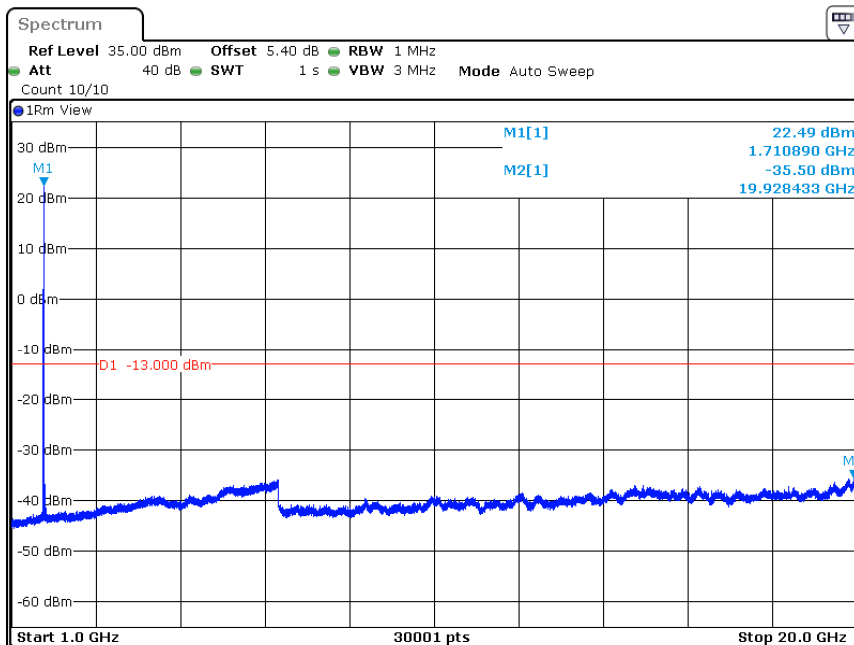
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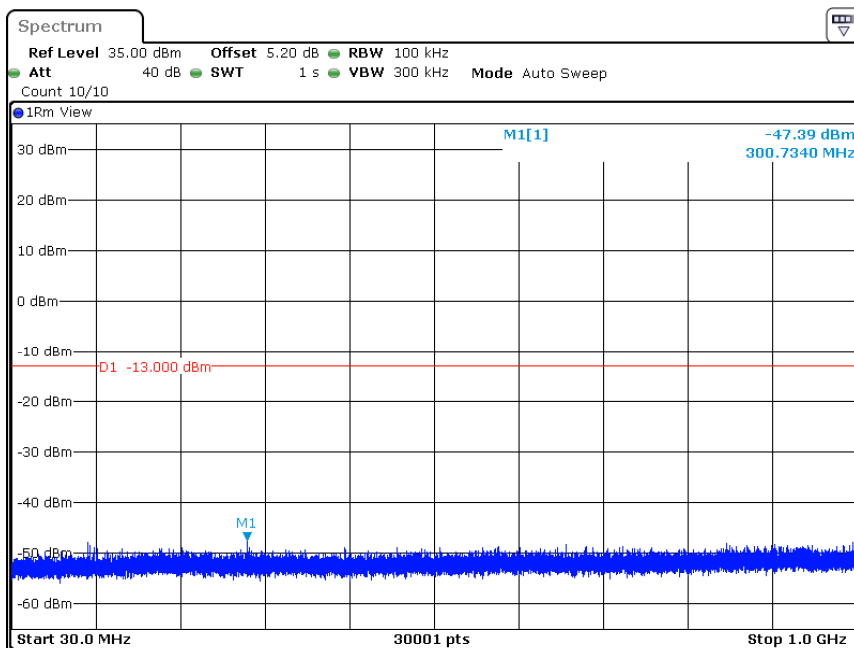
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**Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz**



Date: 7.SEP.2020 13:13:18

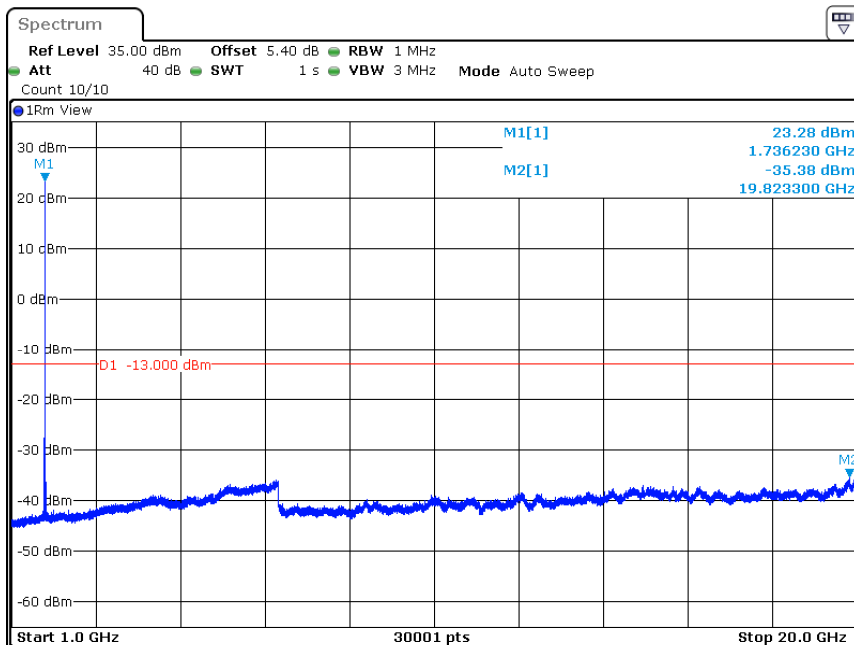
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Date: 7.SEP.2020 13:14:12

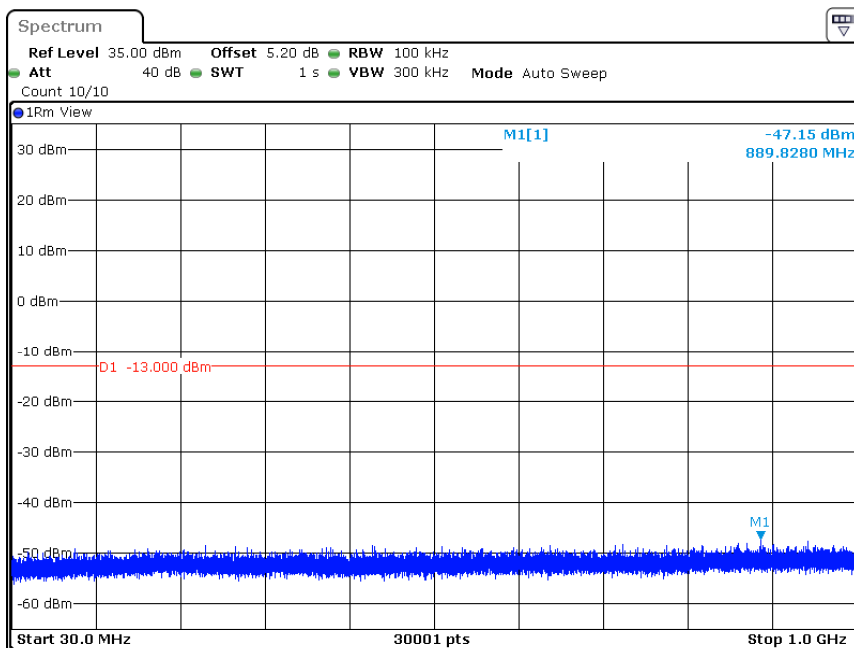


## Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 13:14:28

## Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz

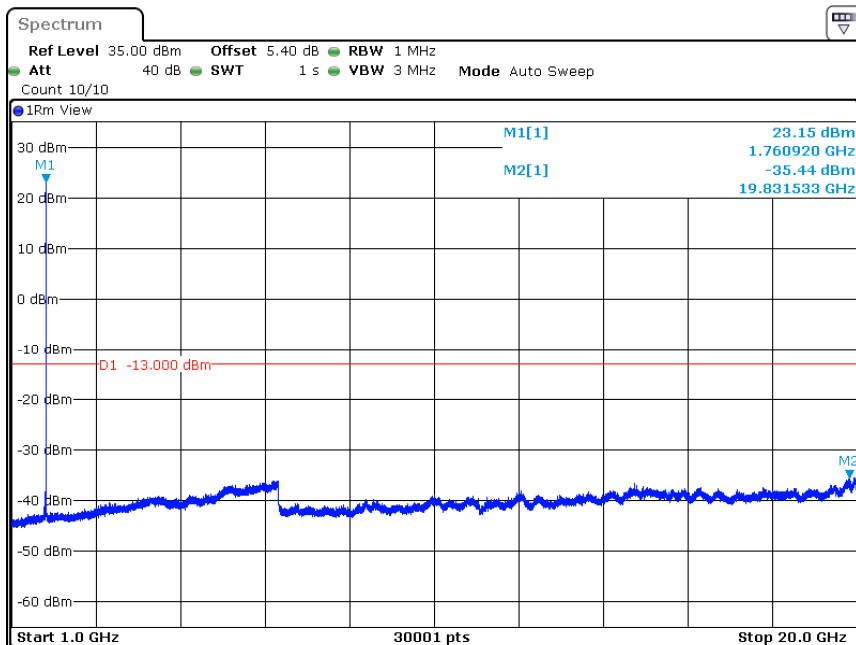


Date: 7.SEP.2020 13:15:22



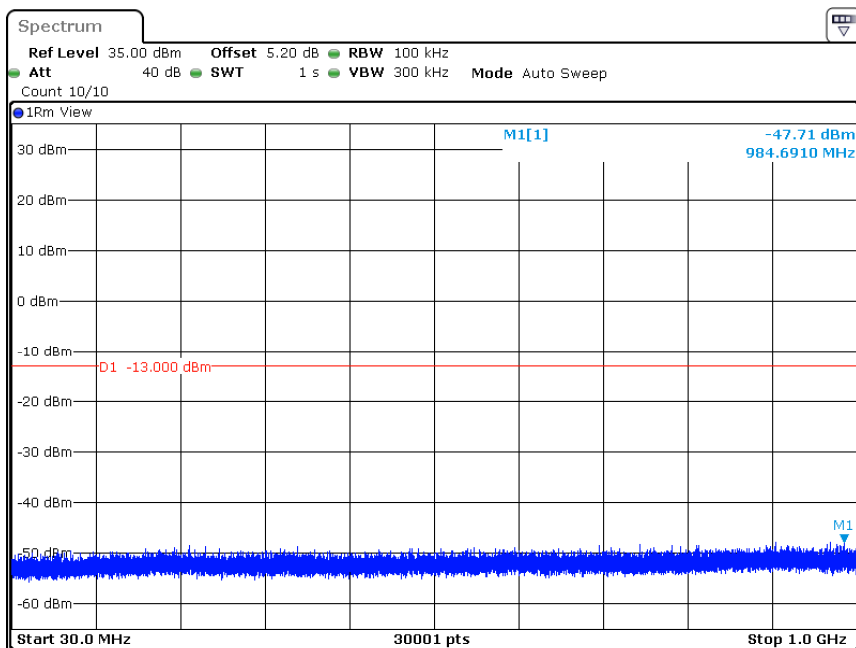


## Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 13:15:39

## Band66-20MHz-64QAM-132072-1RB#0-Range1:30~1000MHz

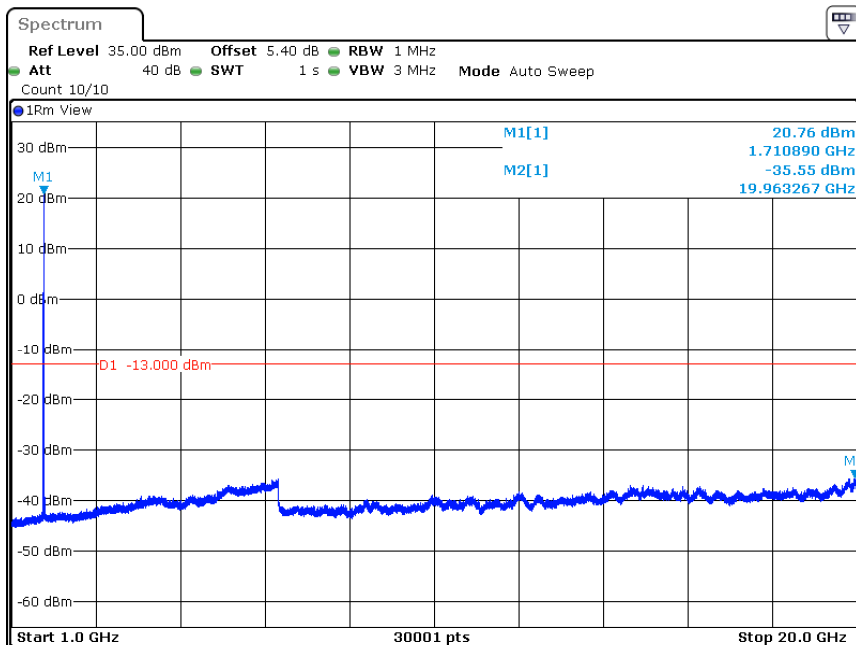


Date: 7.SEP.2020 14:14:19



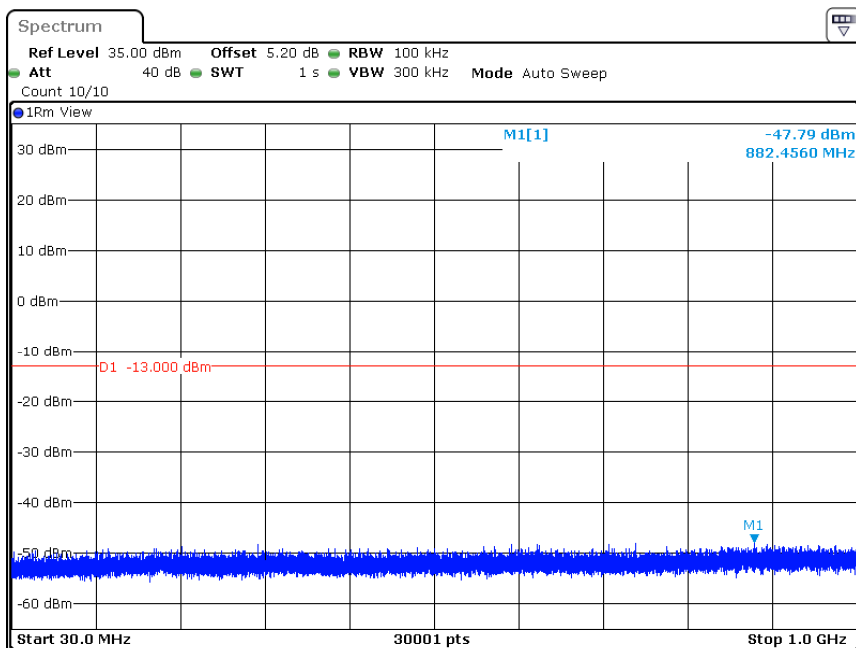


## Band66-20MHz-64QAM-132072-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 14:14:36

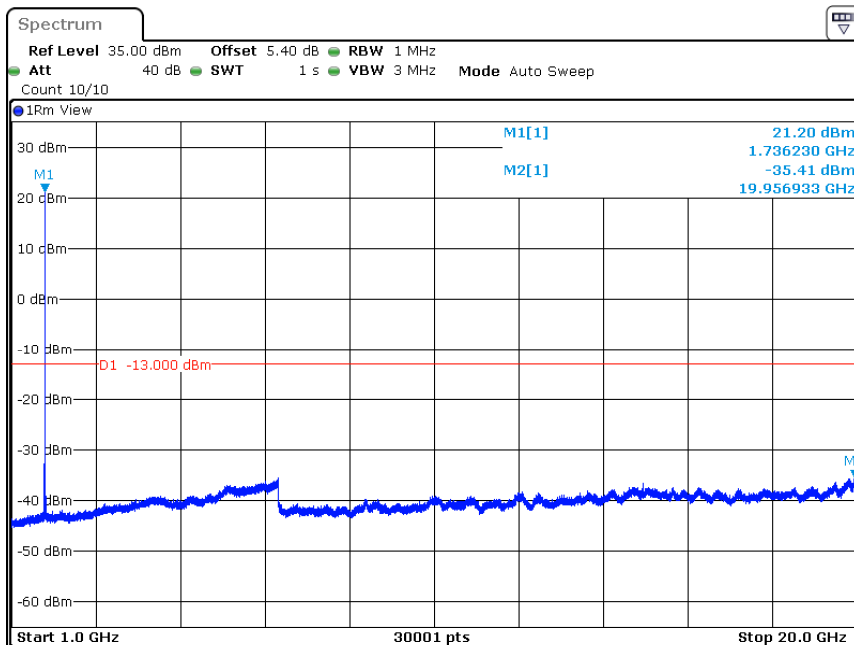
## Band66-20MHz-64QAM-132322-1RB#0-Range1:30~1000MHz



Date: 7.SEP.2020 14:14:55

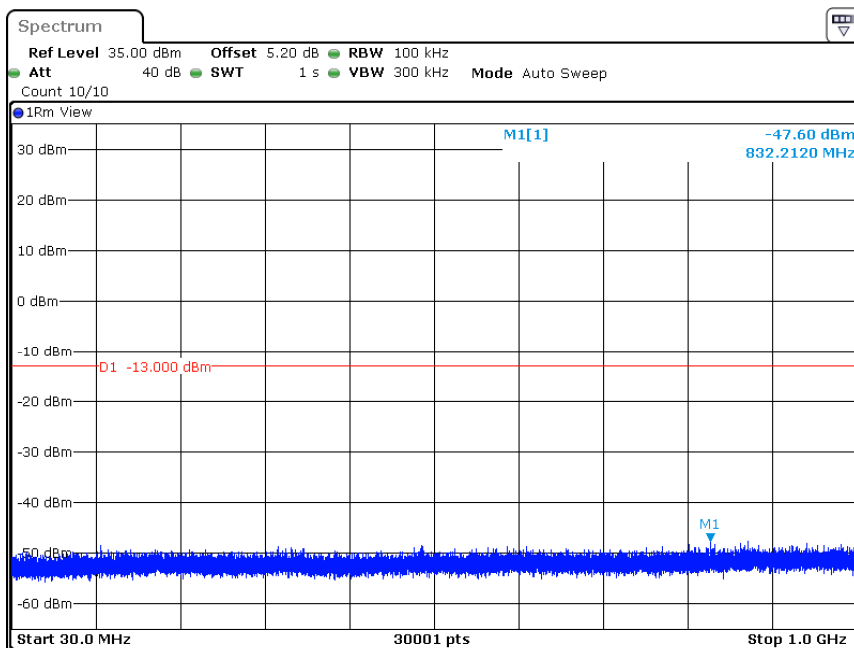


## Band66-20MHz-64QAM-132322-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 14:15:11

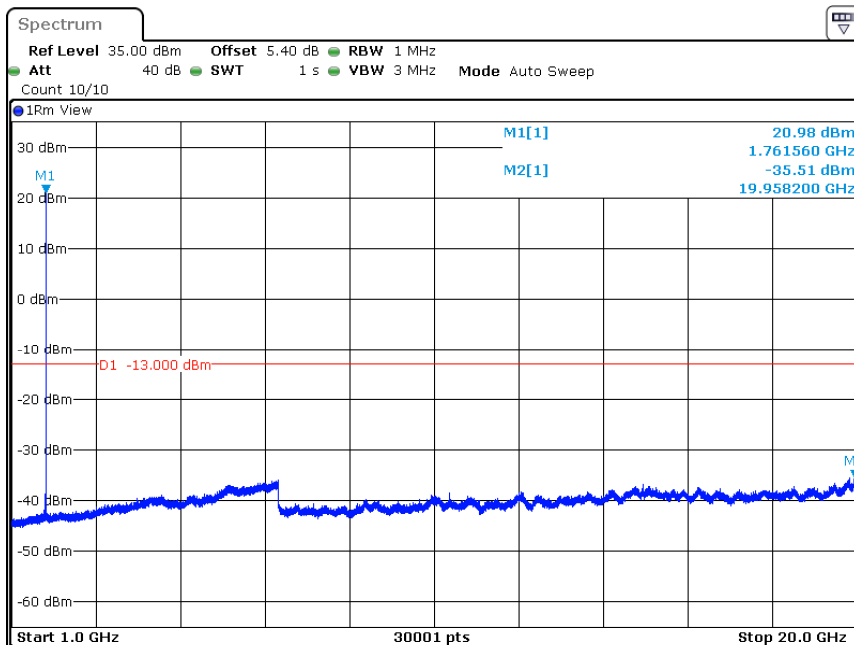
## Band66-20MHz-64QAM-132572-1RB#0-Range1:30~1000MHz



Date: 7.SEP.2020 14:15:30

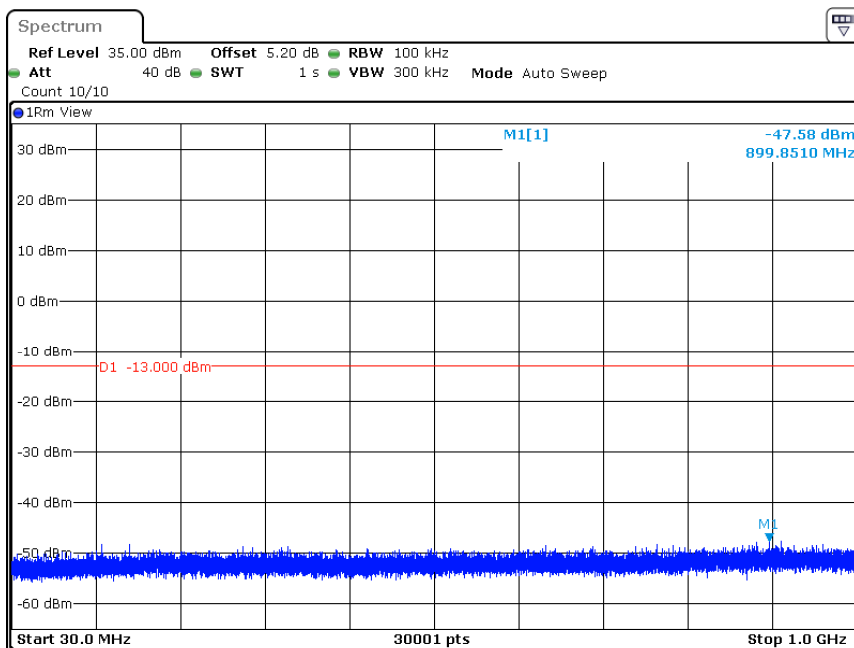


## Band66-20MHz-64QAM-132572-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 14:15:46

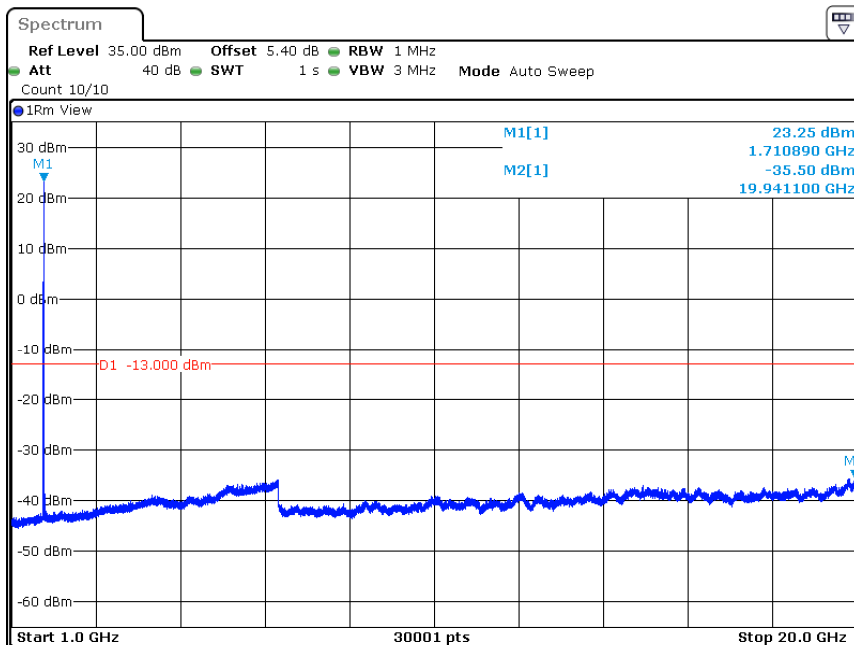
## Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz



Date: 7.SEP.2020 13:13:36

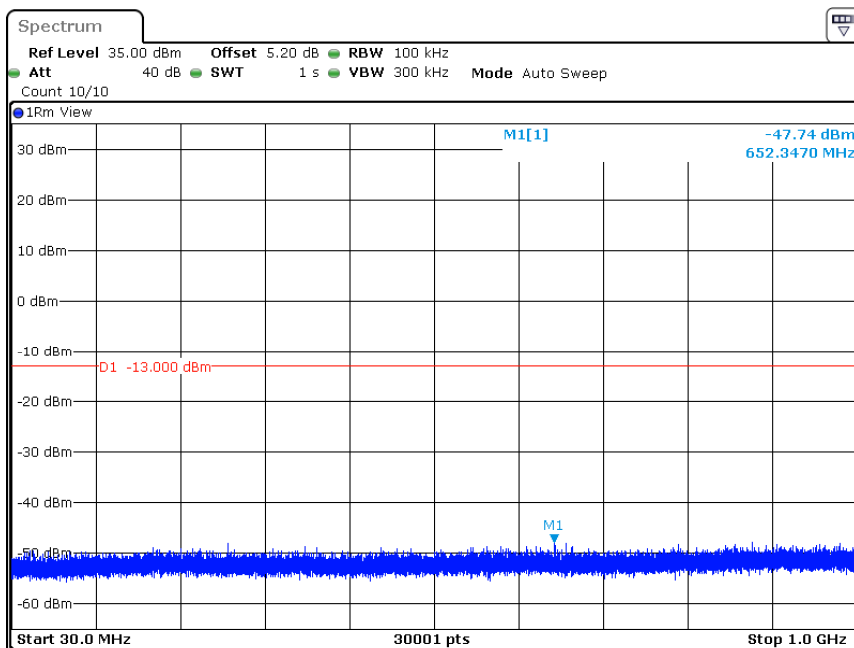


## Band66-20MHz-16QAM-132072-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 13:13:53

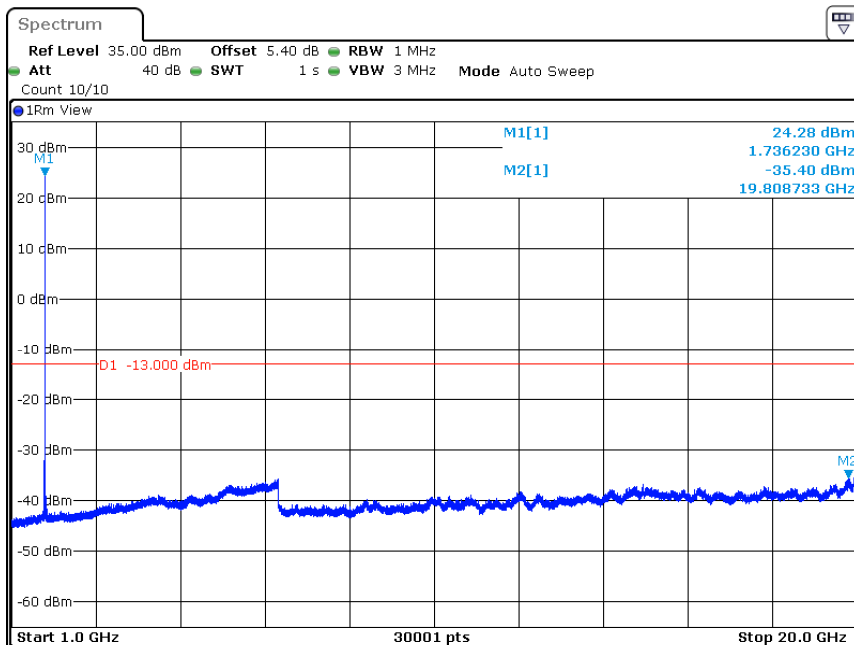
## Band66-20MHz-16QAM-132322-1RB#0-Range1:30~1000MHz



Date: 7.SEP.2020 13:14:47

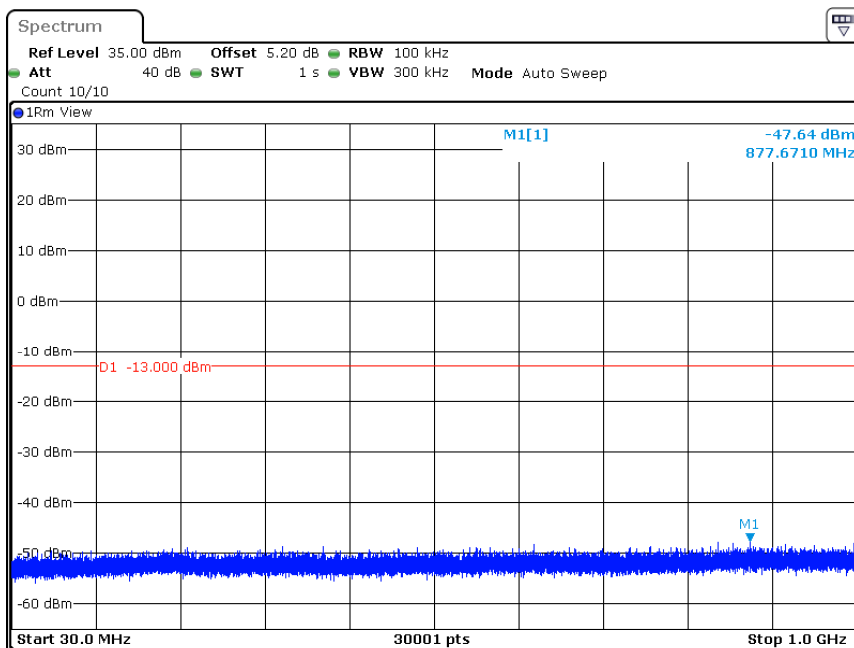


**Band66-20MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz**



Date: 7.SEP.2020 13:15:03

**Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1000MHz**



Date: 7.SEP.2020 13:15:57



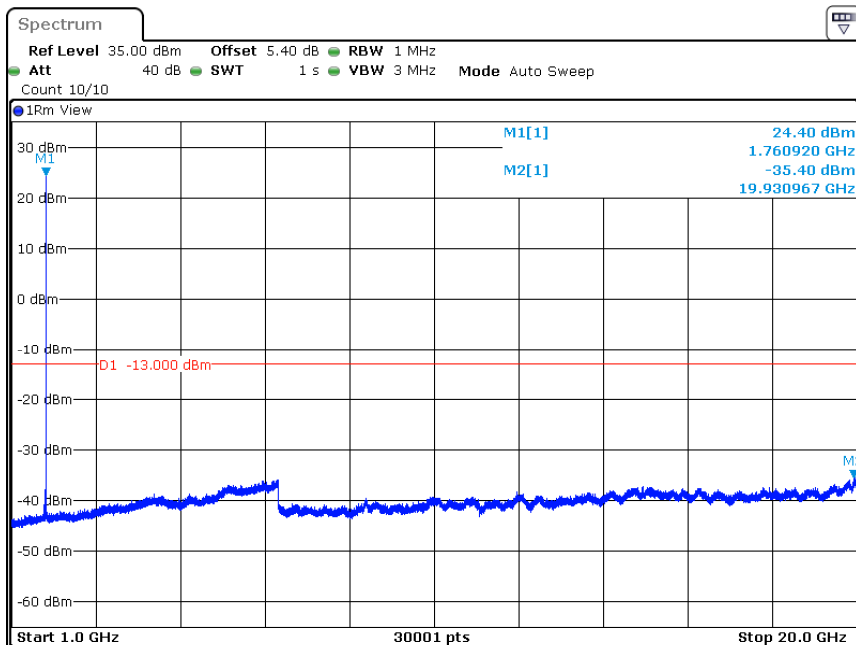
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Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~20000MHz



Date: 7.SEP.2020 13:16:14





## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-72.29	-13.00	59.29	Vertical
111.8236	-64.84	-13.00	51.84	Vertical
296.1813	-68.08	-13.00	55.08	Vertical
3422.5141	-61.86	-13.00	48.86	Vertical
7478.1493	-55.58	-13.00	42.58	Vertical
17997.9999	-40.40	-13.00	27.40	Vertical
44.8417	-64.13	-13.00	51.13	Horizontal
110.9505	-74.94	-13.00	61.94	Horizontal
227.4049	-68.41	-13.00	55.41	Horizontal
3861.5287	-61.43	-13.00	48.43	Horizontal
7466.6489	-56.27	-13.00	43.27	Horizontal
16396.9466	-43.09	-13.00	30.09	Horizontal

### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.4638	-72.47	-13.00	59.47	Vertical
111.3871	-65.00	-13.00	52.00	Vertical
358.7979	-68.45	-13.00	55.45	Vertical
5023.0674	-61.80	-13.00	48.80	Vertical
8002.6668	-55.82	-13.00	42.82	Vertical
17994.9998	-39.94	-13.00	26.94	Vertical
42.6106	-63.53	-13.00	50.53	Horizontal
112.1146	-75.17	-13.00	62.17	Horizontal
240.8400	-68.15	-13.00	55.15	Horizontal
3829.5277	-61.12	-13.00	48.12	Horizontal
7464.1488	-56.30	-13.00	43.30	Horizontal
16388.9463	-43.76	-13.00	30.76	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.7291	-72.23	-13.00	59.23	Vertical
111.1446	-65.26	-13.00	52.26	Vertical
442.9496	-67.48	-13.00	54.48	Vertical
3839.0280	-62.26	-13.00	49.26	Vertical
7900.6634	-55.95	-13.00	42.95	Vertical
17999.5000	-40.26	-13.00	27.26	Vertical
45.8603	-64.49	-13.00	51.49	Horizontal
112.6481	-74.67	-13.00	61.67	Horizontal
249.5705	-68.02	-13.00	55.02	Horizontal
3522.5174	-60.48	-13.00	47.48	Horizontal
7485.1495	-56.03	-13.00	43.03	Horizontal
16393.9465	-43.61	-13.00	30.61	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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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	1.20	0.000698	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	3.60	0.002093	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	1.60	0.000930	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-0.40	-0.000229	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.50	-0.002006	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-3.70	-0.002120	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	0.40	0.000226	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	-0.40	-0.000226	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	-0.30	-0.000169	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	VL	NT	3.80	0.002209	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	VN	NT	1.80	0.001047	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	VH	NT	1.20	0.000698	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	VL	NT	-2.70	-0.001547	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	VN	NT	-2.80	-0.001605	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	VH	NT	-1.50	-0.000860	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	VL	NT	-0.10	-0.000056	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	VN	NT	-0.10	-0.000056	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	VH	NT	-0.20	-0.000113	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	1.50	0.000872	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	4.20	0.002442	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	2.40	0.001395	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-0.10	-0.000057	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-1.10	-0.000630	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-1.50	-0.000860	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	0.30	0.000169	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	0.70	0.000395	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	0.90	0.000508	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	3.50	0.002035	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	2.10	0.001221	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-10	3.10	0.001802	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	0.60	0.000349	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	0.20	0.000116	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	0.80	0.000465	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	30	4.60	0.002674	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	40	1.30	0.000756	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	50	3.60	0.002093	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-3.10	-0.001777	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-1.70	-0.000974	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-0.30	-0.000172	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-3.20	-0.001834	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-3.50	-0.002006	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-2.90	-0.001662	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	0.40	0.000229	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-1.20	-0.000688	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-3.10	-0.001777	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	1.40	0.000791	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	2.60	0.001469	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-10	2.30	0.001299	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	3.10	0.001751	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	0.30	0.000169	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	4.90	0.002768	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	30	1.70	0.000960	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	40	0.90	0.000508	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	50	0.30	0.000169	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	-30	3.40	0.001977	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	-20	4.80	0.002791	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	-10	3.00	0.001744	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	0	1.20	0.000698	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	10	-0.10	-0.000058	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	20	0.50	0.000291	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	30	1.60	0.000930	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	40	0.90	0.000523	±2.5	PASS



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Band66	20MHz	64QAM	132072	100RB#0	NV	50	4.80	0.002791	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	-30	-3.00	-0.001719	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	-20	-1.90	-0.001089	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	-10	-2.10	-0.001203	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	0	-3.20	-0.001834	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	10	-3.90	-0.002235	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	20	-2.40	-0.001375	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	30	-4.20	-0.002407	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	40	-3.80	-0.002178	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	50	-4.60	-0.002636	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	-30	0.30	0.000169	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	-20	1.60	0.000904	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	-10	1.50	0.000847	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	0	0.10	0.000056	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	10	0.60	0.000339	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	20	2.20	0.001243	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	30	1.30	0.000734	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	40	-0.80	-0.000452	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	50	0.30	0.000169	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	10.20	0.005930	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-20	2.10	0.001221	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-10	1.20	0.000698	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	1.70	0.000988	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	1.50	0.000872	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	4.20	0.002442	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	30	1.80	0.001047	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	40	3.20	0.001860	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	50	2.60	0.001512	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-1.60	-0.000917	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-3.10	-0.001777	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-10	-3.40	-0.001948	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-3.60	-0.002063	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	-4.30	-0.002464	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	-3.00	-0.001719	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	30	-1.80	-0.001032	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	40	-3.60	-0.002063	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	50	-4.20	-0.002407	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	1.70	0.000960	±2.5	PASS



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Band66	20MHz	16QAM	132572	100RB#0	NV	-20	3.00	0.001695	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-10	3.70	0.002090	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-0.20	-0.000113	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	0.80	0.000452	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-0.30	-0.000169	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	30	1.60	0.000904	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	40	1.30	0.000734	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	50	3.50	0.001977	±2.5	PASS



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