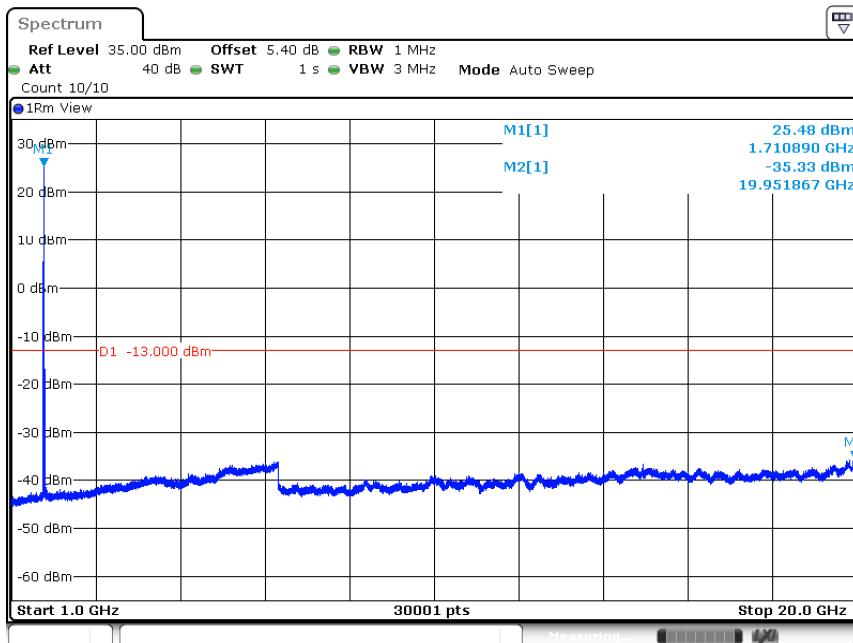
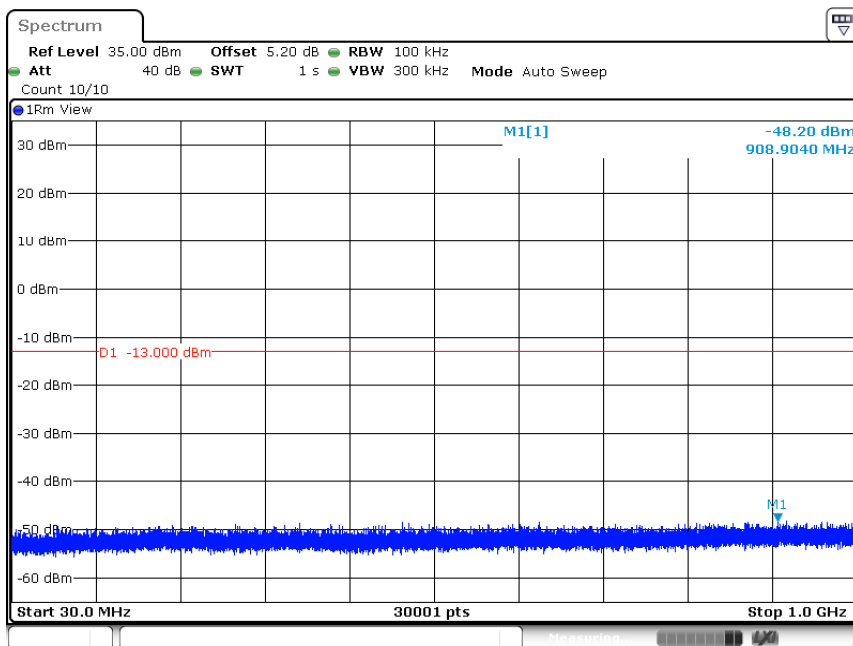


Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz



Date: 18 DEC. 2020 23:57:11

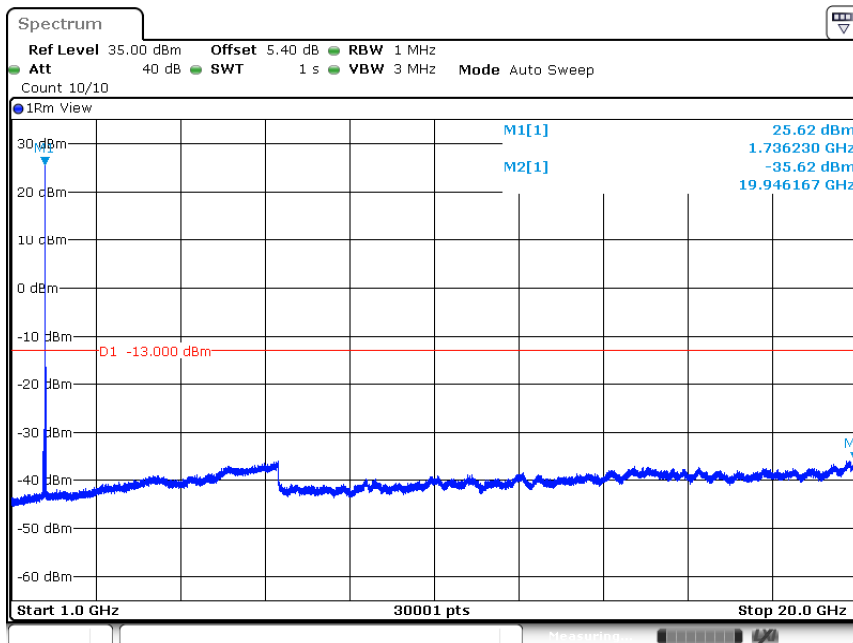
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Date: 18 DEC. 2020 23:58:06

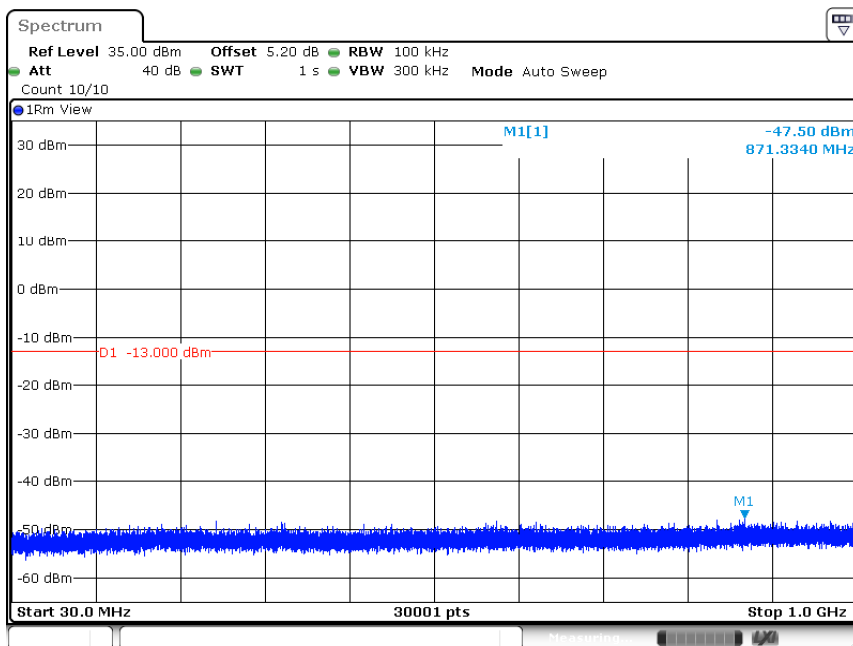


Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz



Date: 18 DEC. 2020 23:58:22

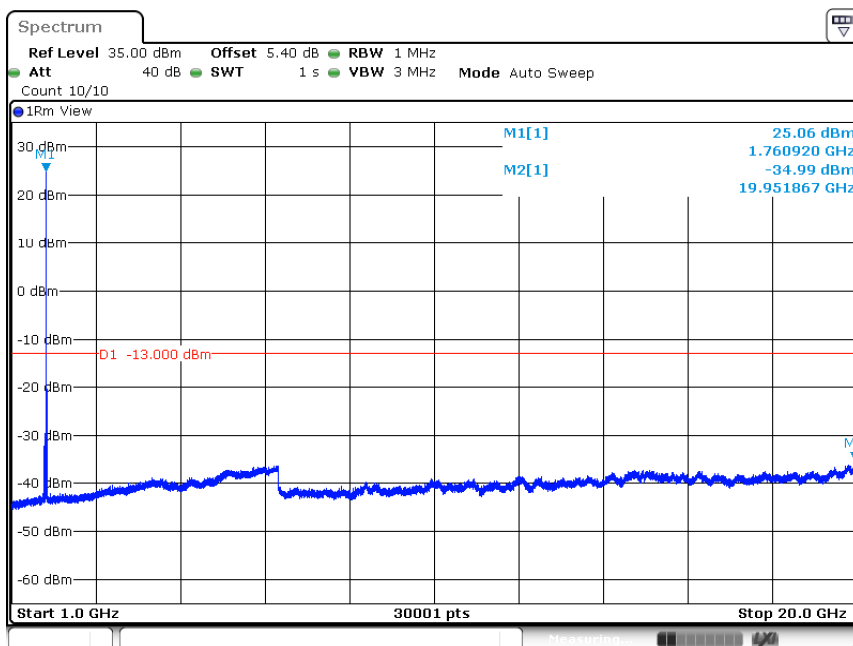
Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz



Date: 18 DEC. 2020 23:59:17

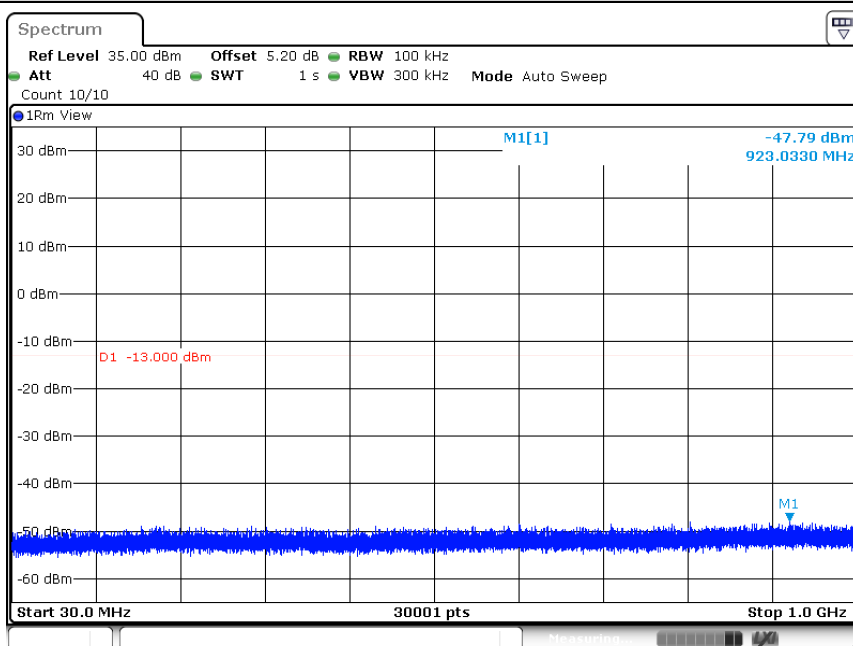


Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~20000MHz



Date: 18.DEC.2020 23:59:33

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



Date: 23.DEC.2020 16:10:58



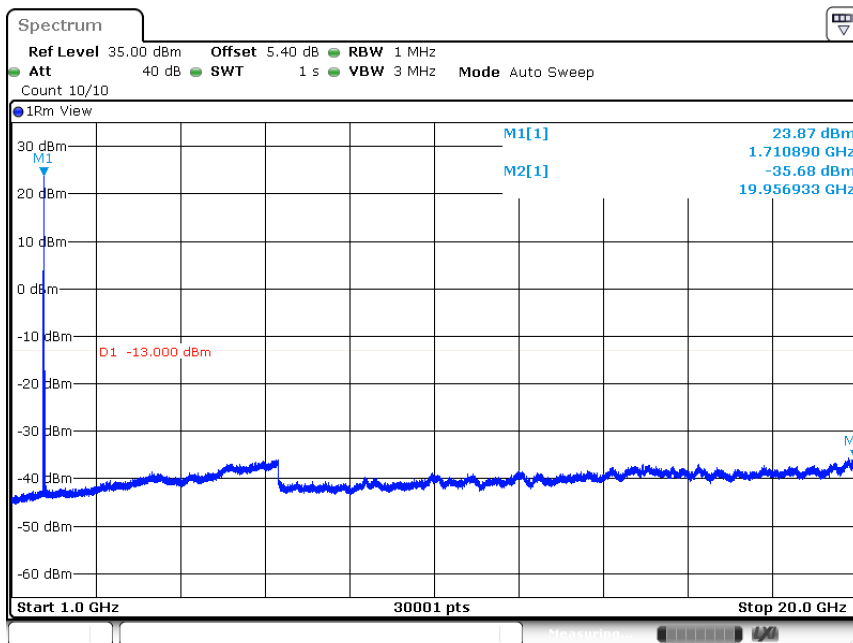
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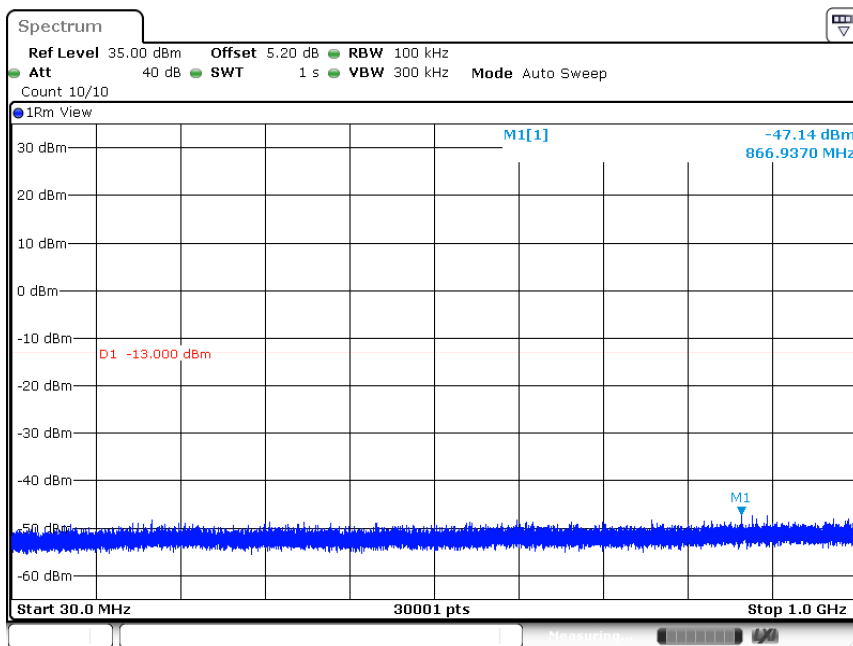
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Band66-20MHz-64QAM-132072-1RB#0-Range2:1000~20000MHz



Date: 23.DEC.2020 16:11:14

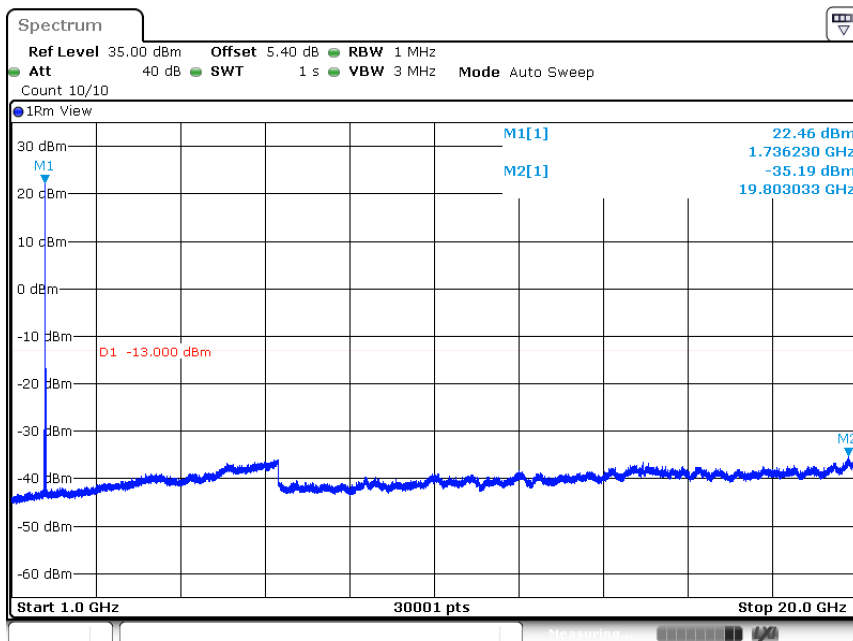
Band66-20MHz-64QAM-132322-1RB#0-Range1:30~1000MHz



Date: 23.DEC.2020 16:11:33

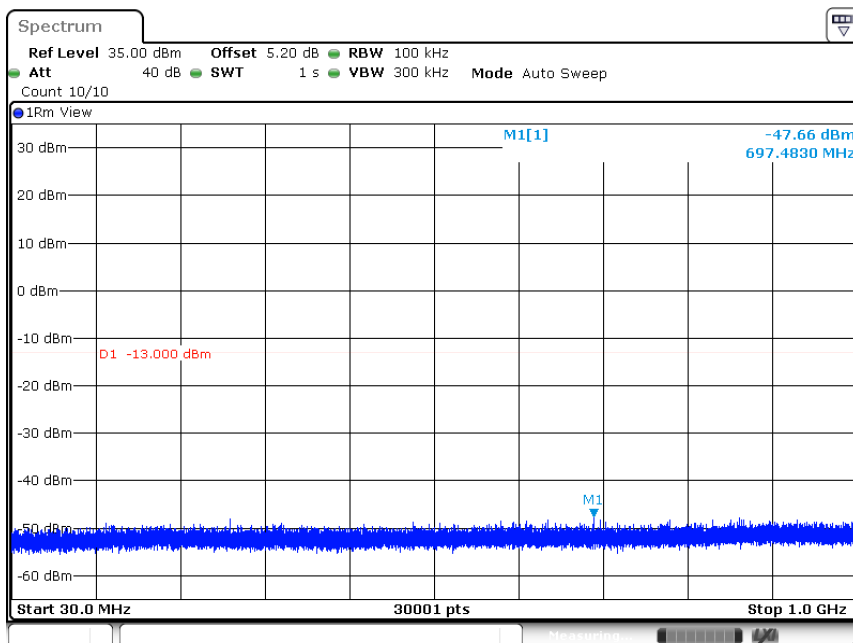


Band66-20MHz-64QAM-132322-1RB#0-Range2:1000~20000MHz



Date: 23.DEC.2020 16:11:49

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



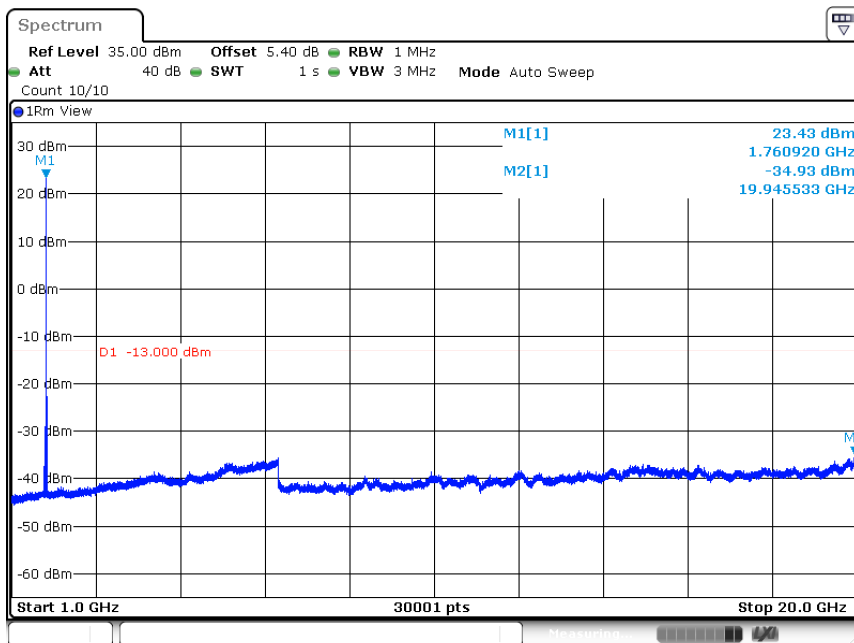
Date: 23.DEC.2020 16:12:09



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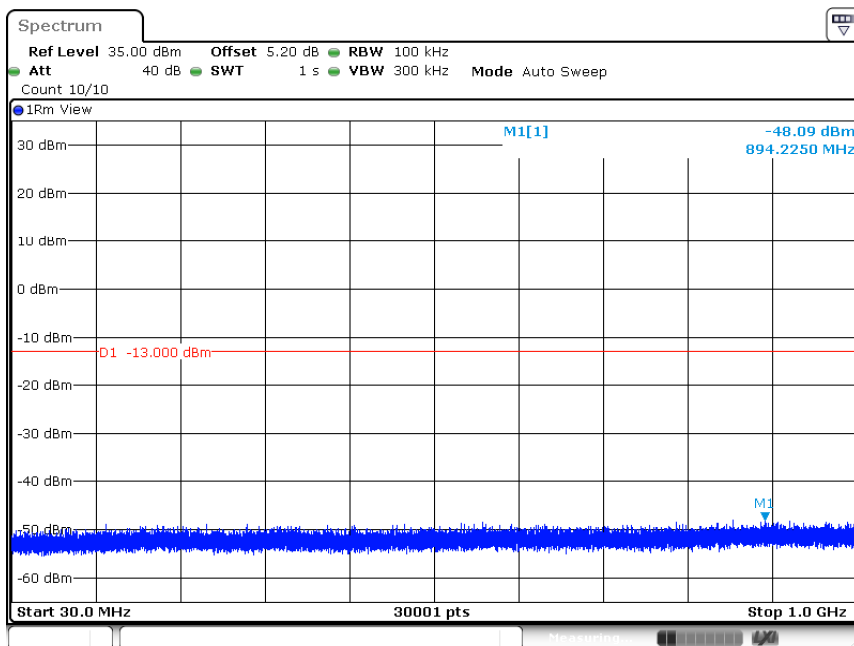
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Band66-20MHz-64QAM-132572-1RB#0-Range2:1000~20000MHz



Date: 23.DEC.2020 16:12:26

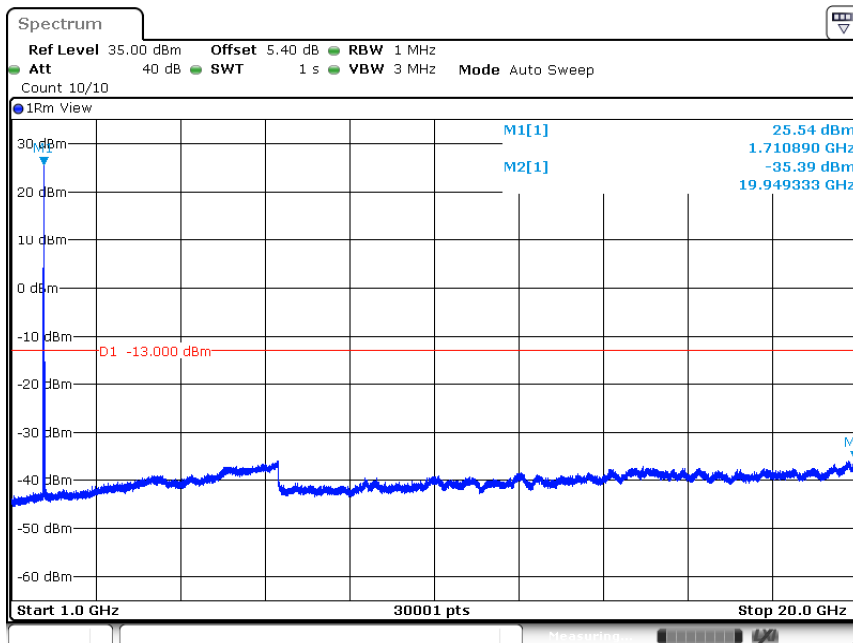
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Date: 18.DEC.2020 23:57:30

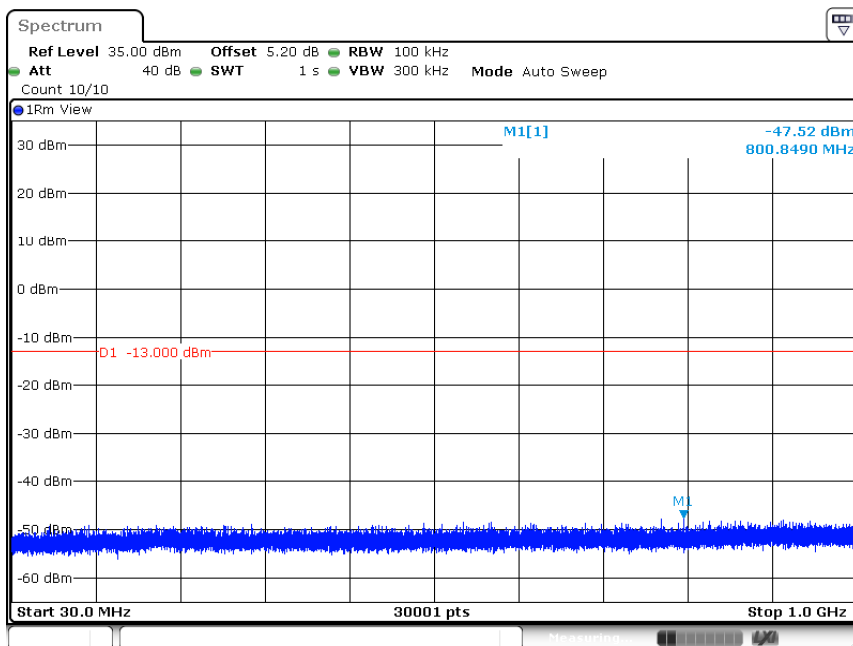


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Date: 18 DEC. 2020 23:57:47

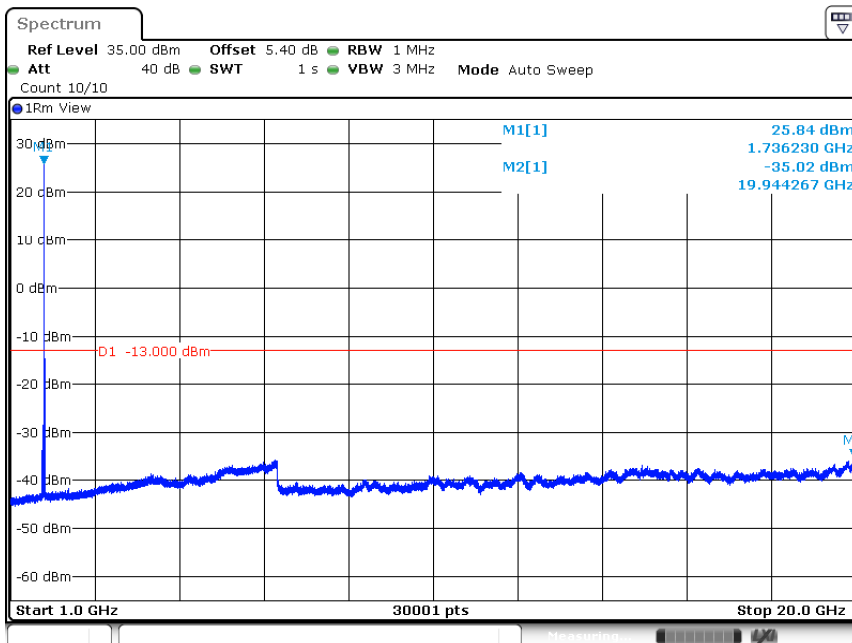
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Date: 18 DEC. 2020 23:58:41

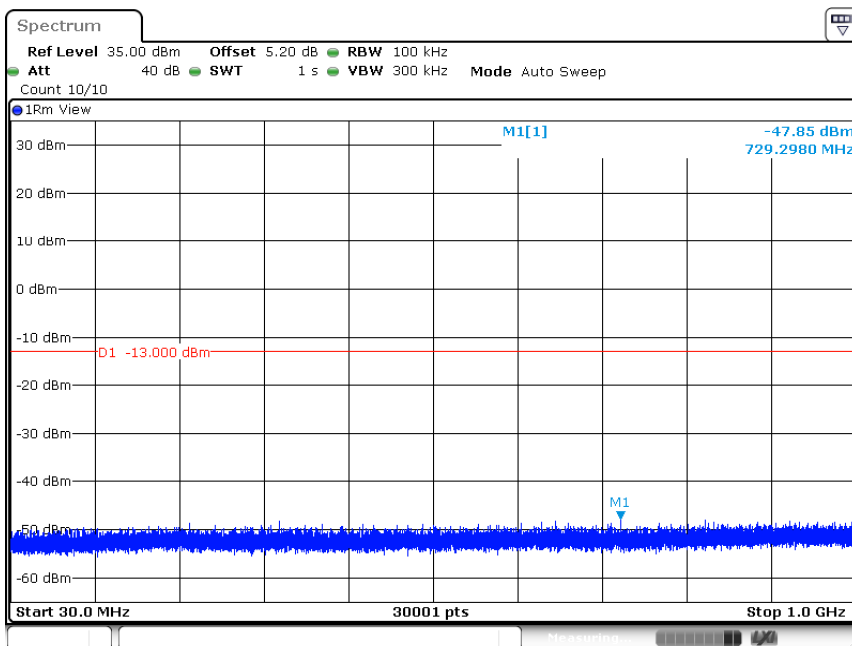


Band66-20MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz



Date: 18.DEC.2020 23:58:57

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

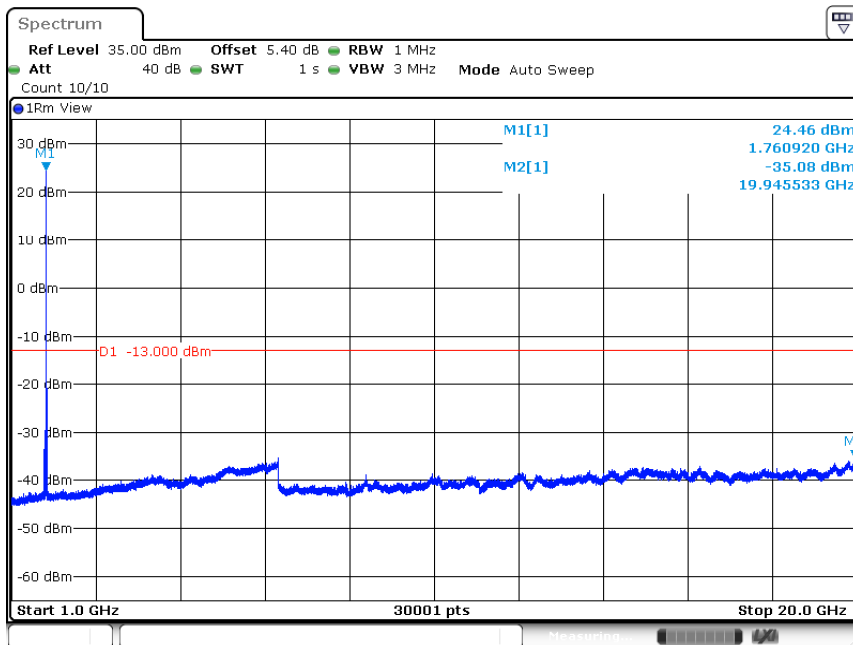


Date: 18.DEC.2020 23:59:52



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



Date: 19.DEC.2020 00:00:08



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_66_TM1 MAIN

7.1.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.7376	-62.46	-13.00	49.46	Horizontal
2	104.0632	-74.96	-13.00	61.96	Horizontal
3	248.8914	-68.58	-13.00	55.58	Horizontal
4	3611.0204	-60.73	-13.00	47.73	Horizontal
5	7440.1480	-56.45	-13.00	43.45	Horizontal
6	16400.446	-44.25	-13.00	31.25	Horizontal



7.2. Test Band = LTE_66_TM1 MAIN**7.2.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.1455	-75.93	-13.00	62.93	Vertical
2	108.2344	-64.17	-13.00	51.17	Vertical
3	615.4728	-63.51	-13.00	50.51	Vertical
4	3782.0261	-61.84	-13.00	48.84	Vertical
5	7341.1447	-56.32	-13.00	43.32	Vertical
6	17985.499	-40.31	-13.00	27.31	Vertical



7.3. Test Band = LTE_66_TM1 MAIN**7.3.1. Test Channel = Mid Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.5022	-63.62	-13.00	50.62	Horizontal
2	100.3770	-74.97	-13.00	61.97	Horizontal
3	230.6060	-68.29	-13.00	55.29	Horizontal
4	3593.0198	-60.75	-13.00	47.75	Horizontal
5	7472.6491	-56.46	-13.00	43.46	Horizontal
6	16383.946	-44.18	-13.00	31.18	Horizontal



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7.4. Test Band = LTE_66_TM1 MAIN

7.4.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.8730	-75.14	-13.00	62.14	Vertical
2	112.2601	-64.56	-13.00	51.56	Vertical
3	588.5539	-63.46	-13.00	50.46	Vertical
4	3637.5213	-62.06	-13.00	49.06	Vertical
5	7378.6460	-56.26	-13.00	43.26	Vertical
6	17990.999	-40.19	-13.00	27.19	Vertical



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7.5. Test Band = LTE_66_TM1 MAIN**7.5.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.7447	-64.21	-13.00	51.21	Horizontal
2	105.1303	-75.27	-13.00	62.27	Horizontal
3	241.7131	-69.14	-13.00	56.14	Horizontal
4	3618.5206	-60.82	-13.00	47.82	Horizontal
5	7420.6474	-56.00	-13.00	43.00	Horizontal
6	16397.446	-44.37	-13.00	31.37	Horizontal



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7.6. Test Band = LTE_66_TM1 MAIN**7.6.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.1455	-74.49	-13.00	61.49	Vertical
2	114.7822	-64.45	-13.00	51.45	Vertical
3	609.0705	-63.40	-13.00	50.40	Vertical
4	3619.5207	-61.55	-13.00	48.55	Vertical
5	7357.6453	-56.11	-13.00	43.11	Vertical
6	17999.500	-40.34	-13.00	27.34	Vertical



7.7. Test Band = LTE_66_TM1 DIV**7.7.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.6663	-61.97	-13.00	48.97	Horizontal
2	85.2443	-74.12	-13.00	61.12	Horizontal
3	233.7587	-68.79	-13.00	55.79	Horizontal
4	3594.5198	-60.22	-13.00	47.22	Horizontal
5	7473.6491	-56.74	-13.00	43.74	Horizontal
6	16394.946	-44.09	-13.00	31.09	Horizontal



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7.8. Test Band = LTE_66_TM1_DIV**7.8.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.2910	-75.15	-13.00	62.15	Vertical
2	114.3457	-64.57	-13.00	51.57	Vertical
3	604.9477	-63.73	-13.00	50.73	Vertical
4	3628.5210	-62.01	-13.00	49.01	Vertical
5	7350.1450	-55.95	-13.00	42.95	Vertical
6	17999.500	-39.80	-13.00	26.80	Vertical



7.9. Test Band = LTE_66_TM1 DIV

7.9.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.8945	-63.37	-13.00	50.37	Horizontal
2	103.0932	-73.32	-13.00	60.32	Horizontal
3	252.9171	-68.71	-13.00	55.71	Horizontal
4	3587.5196	-60.98	-13.00	47.98	Horizontal
5	7450.6484	-56.52	-13.00	43.52	Horizontal
6	16372.945	-44.58	-13.00	31.58	Horizontal



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7.10. Test Band = LTE_66_TM1 DIV

7.10.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6790	-74.75	-13.00	61.75	Vertical
2	112.7451	-63.89	-13.00	50.89	Vertical
3	643.6527	-63.79	-13.00	50.79	Vertical
4	3600.5200	-61.53	-13.00	48.53	Vertical
5	7385.6462	-56.44	-13.00	43.44	Vertical
6	17995.999	-40.71	-13.00	27.71	Vertical



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7.11. Test Band = LTE_66_TM1 DIV

7.11.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.7747	-63.51	-13.00	50.51	Horizontal
2	99.6495	-75.13	-13.00	62.13	Horizontal
3	238.6089	-69.16	-13.00	56.16	Horizontal
4	3638.0213	-61.07	-13.00	48.07	Horizontal
5	7442.1481	-56.70	-13.00	43.70	Horizontal
6	16394.446	-44.34	-13.00	31.34	Horizontal



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7.12. Test Band = LTE_66_TM1 DIV**7.12.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.7760	-75.08	-13.00	62.08	Vertical
2	105.7123	-64.54	-13.00	51.54	Vertical
3	606.2088	-63.71	-13.00	50.71	Vertical
4	3623.0208	-61.73	-13.00	48.73	Vertical
5	7366.6456	-56.26	-13.00	43.26	Vertical
6	17994.999	-40.34	-13.00	27.34	Vertical

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.





8. Frequency Stability

8.1. Frequency Vs Voltage

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	-1.90	-0.001105	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	-1.20	-0.000698	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	0.10	0.000058	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-6.30	-0.003610	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-1.00	-0.000573	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	1.90	0.001089	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	1.90	0.001073	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	3.10	0.001751	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	4.00	0.002260	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	3.00	0.001744	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	0.90	0.000523	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	-0.40	-0.000233	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-0.50	-0.000287	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-4.80	-0.002751	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	-2.50	-0.001412	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	1.10	0.000621	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	7.50	0.004237	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	VL	NT	2.30	0.001337	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	VN	NT	2.80	0.001628	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	VH	NT	2.30	0.001337	±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	-1.30	-0.000745	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	VH	NT	-3.40	-0.001948	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	VL	NT	-1.40	-0.000791	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	VN	NT	0.60	0.000339	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	VH	NT	0.40	0.000226	±2.5	PASS



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8.2. Frequency Vs Temperature

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	7.00	0.004070	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	1.80	0.001047	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-10	0.60	0.000349	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	0.50	0.000291	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	4.50	0.002616	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	1.00	0.000581	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	30	2.40	0.001395	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	40	2.70	0.001570	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	50	-0.90	-0.000523	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.60	-0.000917	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-4.40	-0.002521	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-2.20	-0.001261	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-2.30	-0.001318	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	4.90	0.002808	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.80	-0.001605	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-5.30	-0.003037	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-2.70	-0.001547	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	-1.00	-0.000565	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	2.70	0.001525	±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	1.60	0.000904	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	-0.80	-0.000452	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	-2.70	-0.001525	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	30	0.30	0.000169	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	40	6.30	0.003559	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	50	-1.00	-0.000565	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	1.60	0.000930	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-20	2.40	0.001395	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-10	2.20	0.001279	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	3.30	0.001919	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	3.70	0.002151	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	9.60	0.005581	±2.5	PASS



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Band66	20MHz	16QAM	132072	100RB#0	NV	30	4.80	0.002791	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	40	5.20	0.003023	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	50	7.90	0.004593	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	2.10	0.001203	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	4.30	0.002464	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-10	2.20	0.001261	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-2.10	-0.001203	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	1.60	0.000917	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	4.30	0.002464	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	30	-3.60	-0.002063	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	40	-5.30	-0.003037	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	50	-1.40	-0.000802	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	1.20	0.000678	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	2.10	0.001186	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-10	2.00	0.001130	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	0.70	0.000395	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	3.00	0.001695	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	3.30	0.001864	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	30	3.40	0.001921	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	40	0.80	0.000452	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	50	2.20	0.001243	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	-20	0.70	0.000407	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	-10	2.00	0.001163	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	0	3.80	0.002209	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	10	2.90	0.001686	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	20	2.50	0.001453	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	30	-0.20	-0.000116	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	40	3.50	0.002035	±2.5	PASS
Band66	20MHz	64QAM	132072	100RB#0	NV	50	0.30	0.000174	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	-30	-0.20	-0.000115	±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	-1.70	-0.000974	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	0	-0.60	-0.000344	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	10	-2.70	-0.001547	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	20	-1.50	-0.000860	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	30	-3.20	-0.001834	±2.5	PASS



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Band66	20MHz	64QAM	132322	100RB#0	NV	40	-4.30	-0.002464	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	50	-1.00	-0.000573	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	-30	2.40	0.001356	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	-20	1.00	0.000565	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	-10	-1.70	-0.000960	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	0	-0.20	-0.000113	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	10	0.50	0.000282	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	20	1.00	0.000565	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	30	2.60	0.001469	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	40	-0.40	-0.000226	±2.5	PASS
Band66	20MHz	64QAM	132572	100RB#0	NV	50	-1.20	-0.000678	±2.5	PASS



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