



# Appendix

## LTE CA\_38C





**Effective (Isotropic) Radiated Power Output Data Test Result**

**ANT2:**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP	Limit	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	16RB#0-0RB#0	23.84	22.64	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	23.78	22.58	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	16RB#0-0RB#0	23.79	22.59	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.74	22.54	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	16RB#0-0RB#0	23.75	22.55	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.73	22.53	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	16RB#0-0RB#0	22.89	21.69	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	22.78	21.58	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	16RB#0-0RB#0	22.83	21.63	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	22.71	21.51	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	16RB#0-0RB#0	22.80	21.6	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	22.67	21.47	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	16RB#0-0RB#0	21.84	20.64	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	21.36	20.16	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	16RB#0-0RB#0	21.77	20.57	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	21.32	20.12	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	16RB#0-0RB#0	21.74	20.54	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	21.30	20.1	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	18RB#0-0RB#0	23.49	22.29	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	-33.79	-34.99	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	18RB#0-0RB#0	23.51	22.31	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.45	22.25	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	18RB#0-0RB#0	23.50	22.3	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.40	22.2	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	18RB#0-0RB#0	22.50	21.3	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	22.34	21.14	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	18RB#0-0RB#0	22.48	21.28	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	22.45	21.25	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	18RB#0-0RB#0	22.46	21.26	30.00	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	22.39	21.19	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	18RB#0-0RB#0	21.52	20.32	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	20.98	19.78	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	18RB#0-0RB#0	21.49	20.29	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	21.05	19.85	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	18RB#0-0RB#0	21.48	20.28	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	21.01	19.81	30.00	PASS



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**ANT4:**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP	Limit	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	16RB#0-0RB#0	21.64	19.48	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	21.51	19.35	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	16RB#0-0RB#0	21.69	19.53	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	21.49	19.33	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	16RB#0-0RB#0	21.75	19.59	30.00	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	21.64	19.48	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	16RB#0-0RB#0	20.75	18.59	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	20.56	18.4	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	16RB#0-0RB#0	20.70	18.54	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	20.52	18.36	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	16RB#0-0RB#0	20.77	18.61	30.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	20.65	18.49	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	16RB#0-0RB#0	19.82	17.66	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	19.63	17.47	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	16RB#0-0RB#0	19.82	17.66	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	19.46	17.3	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	16RB#0-0RB#0	19.93	17.77	30.00	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	19.62	17.46	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	18RB#0-0RB#0	21.66	19.5	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	21.43	19.27	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	18RB#0-0RB#0	21.62	19.46	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	21.44	19.28	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	18RB#0-0RB#0	21.78	19.62	30.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	21.70	19.54	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	18RB#0-0RB#0	20.83	18.67	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	20.53	18.37	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	18RB#0-0RB#0	20.71	18.55	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	20.53	18.37	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	18RB#0-0RB#0	20.68	18.52	30.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	20.64	18.48	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	18RB#0-0RB#0	19.81	17.65	30.00	PASS



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38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	19.72	17.56	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	18RB#0-0RB#0	19.87	17.71	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	19.55	17.39	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	18RB#0-0RB#0	19.96	17.8	30.00	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	19.69	17.53	30.00	PASS

**Remark:**

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



**Peak-to-Average Ratio(CCDF)  
Test Result**

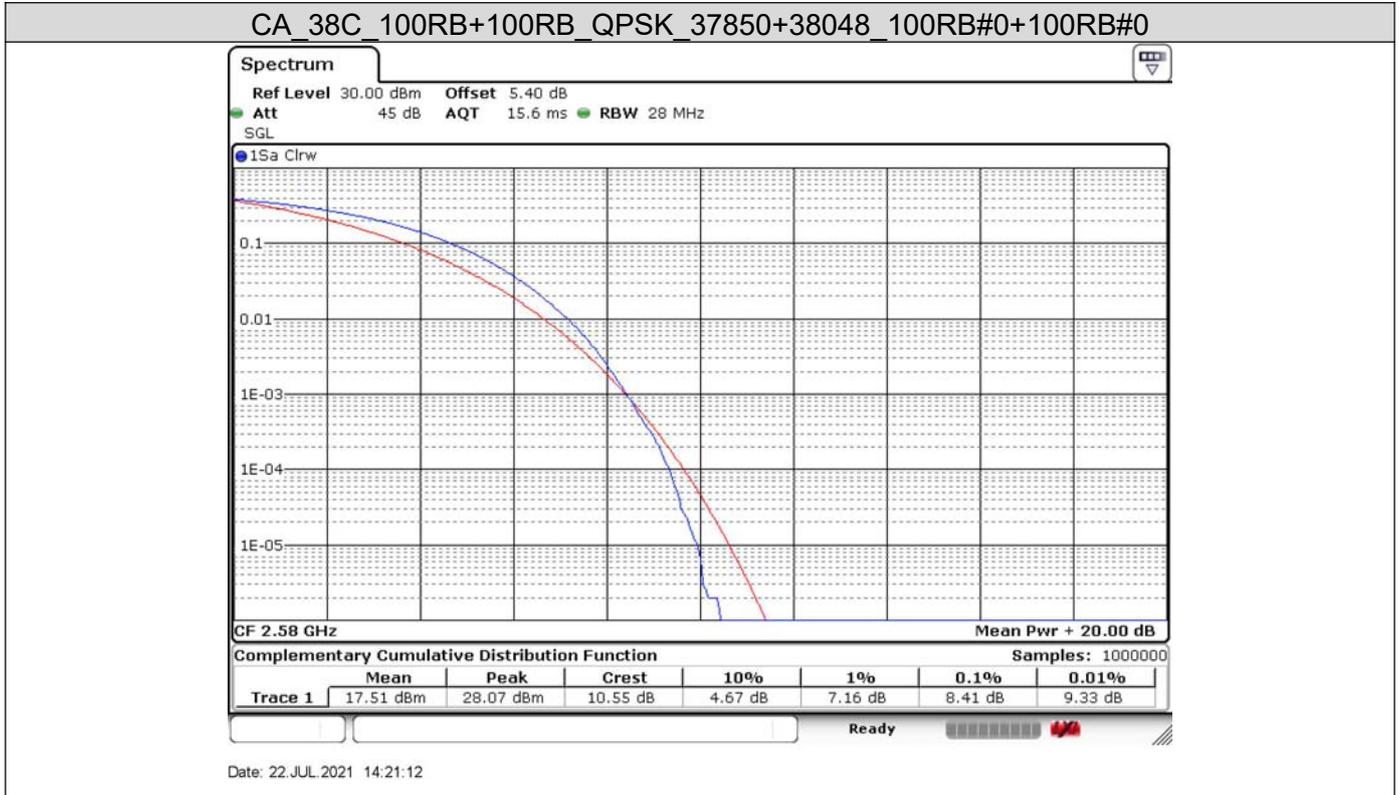
Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	8.41	13.00	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	8.14	13.00	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	8.14	13.00	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	8.75	13.00	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	8.84	13.00	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	8.93	13.00	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	9.07	13.00	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	8.87	13.00	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	9.10	13.00	PASS



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**Test Graphs**



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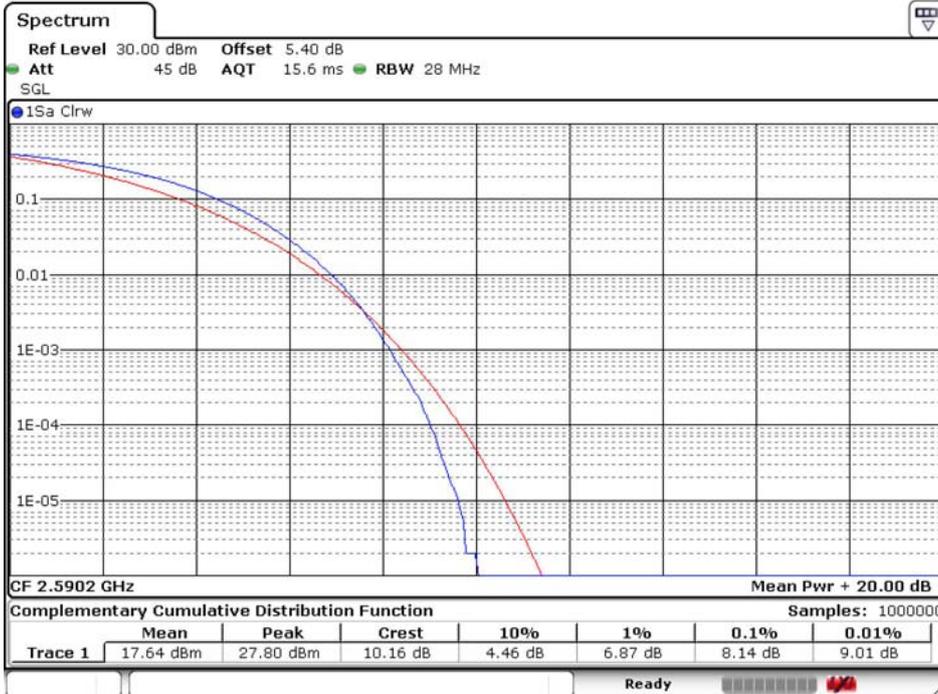
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CA 38C 100RB+100RB QPSK 37901+38099 100RB#0+100RB#0



Date: 22.JUL.2021 14:22:58

CA 38C 100RB+100RB QPSK 37952+38150 100RB#0+100RB#0



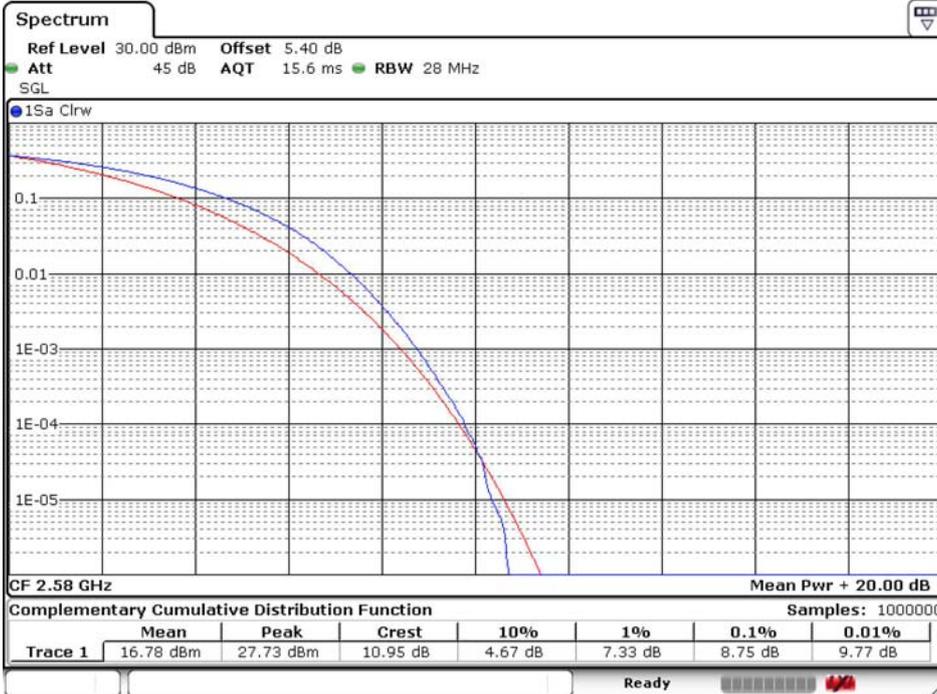
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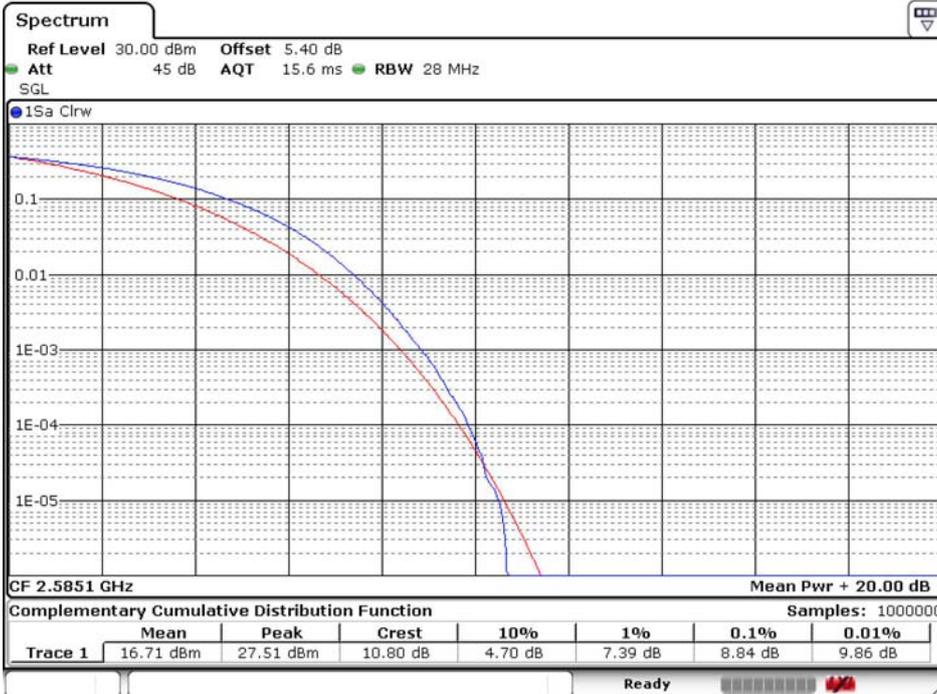
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CA 38C 100RB+100RB 16QAM 37850+38048 100RB#0+100RB#0



Date: 22.JUL.2021 14:21:31

CA 38C 100RB+100RB 16QAM 37901+38099 100RB#0+100RB#0



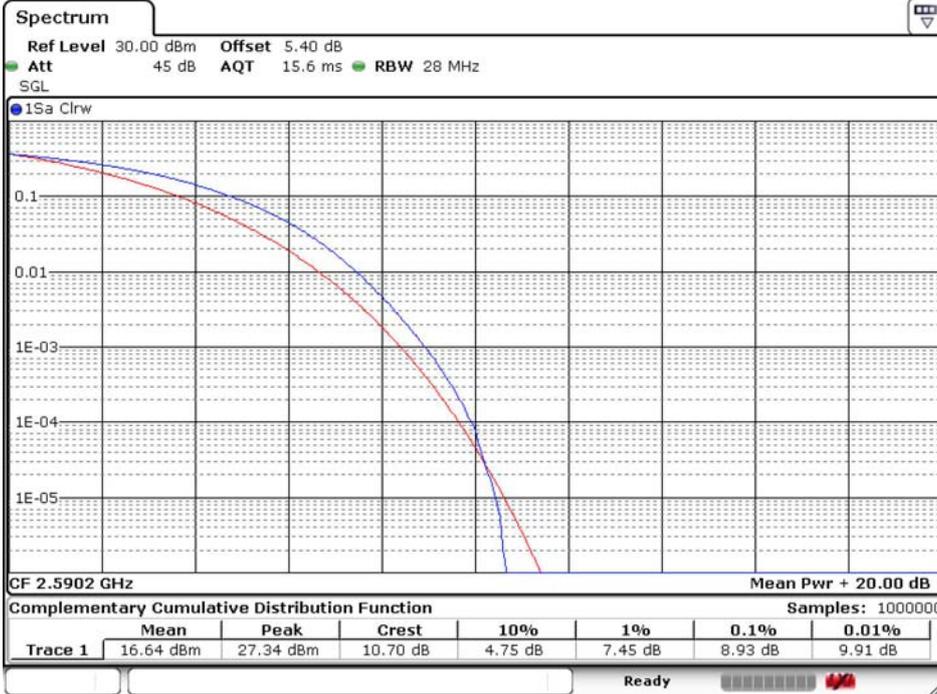
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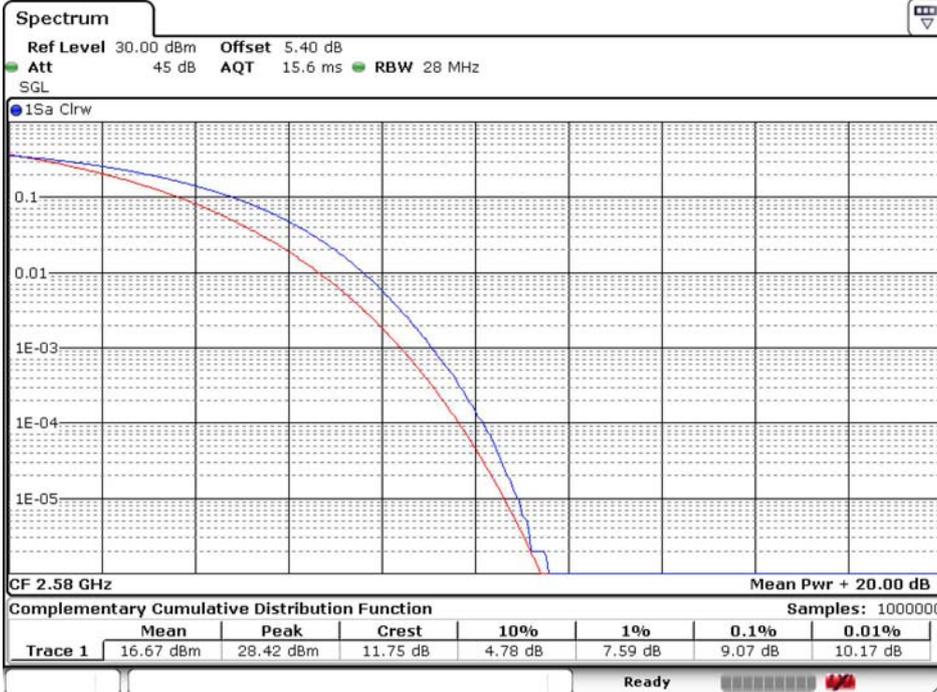
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CA 38C 100RB+100RB 16QAM 37952+38150 100RB#0+100RB#0



Date: 22.JUL.2021 14:27:12

CA 38C 100RB+100RB 64QAM 37850+38048 100RB#0+100RB#0



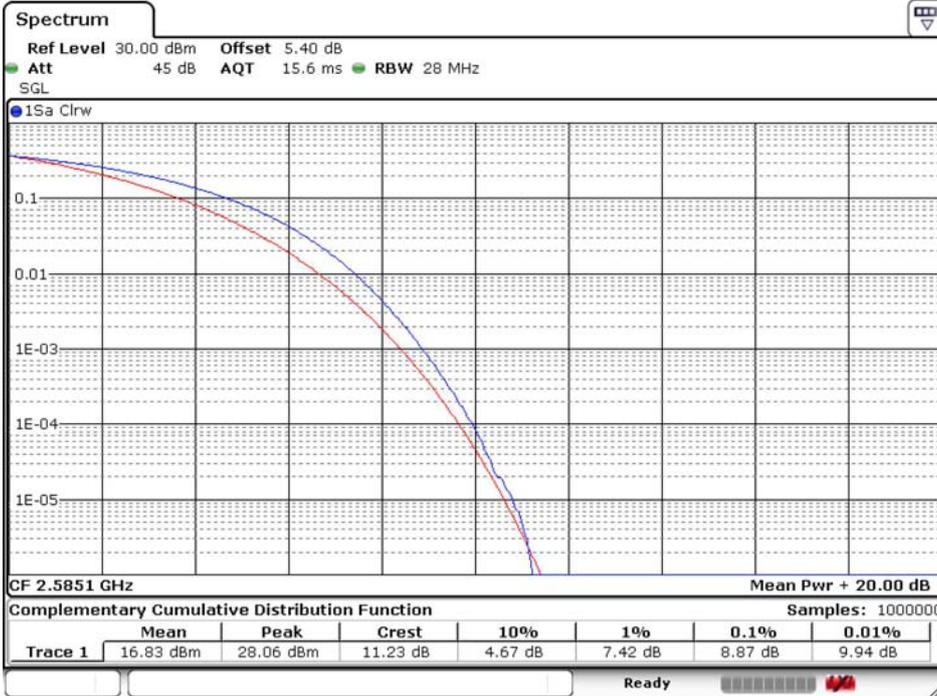
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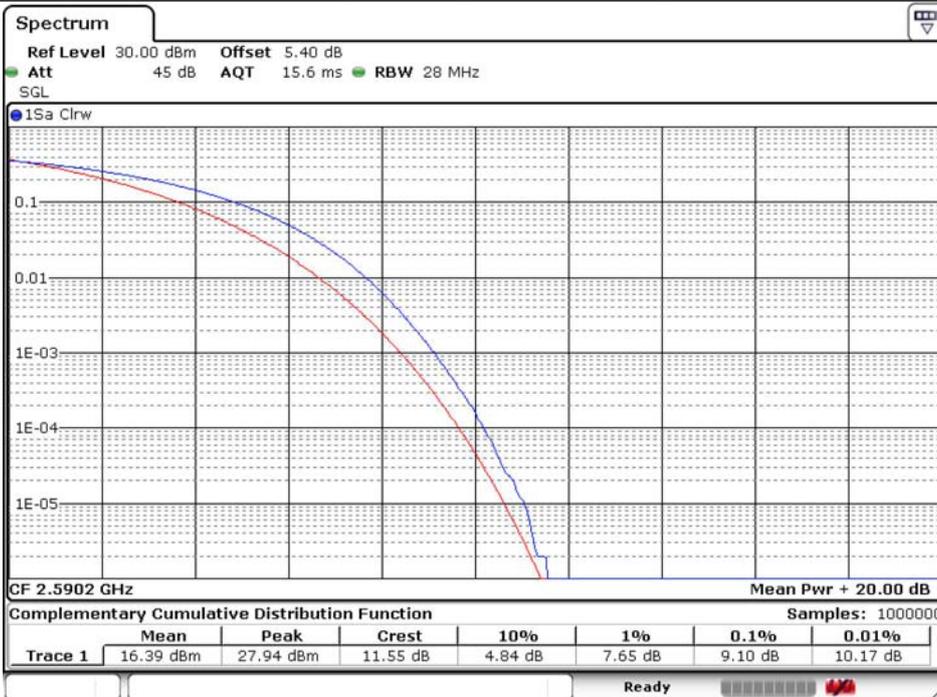
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**CA 38C 100RB+100RB 64QAM 37901+38099 100RB#0+100RB#0**



Date: 22.JUL.2021 14:22:31

**CA 38C 100RB+100RB 64QAM 37952+38150 100RB#0+100RB#0**



Date: 22.JUL.2021 14:27:24



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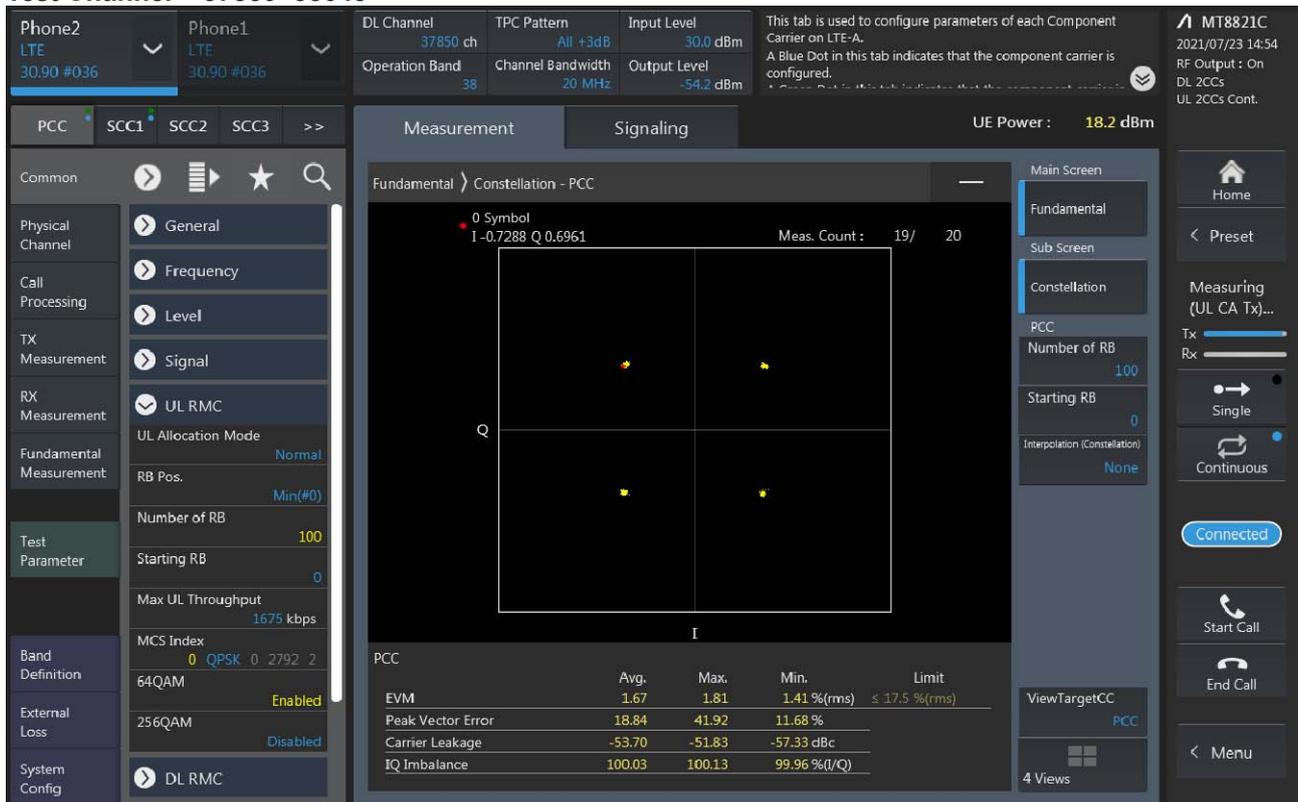


Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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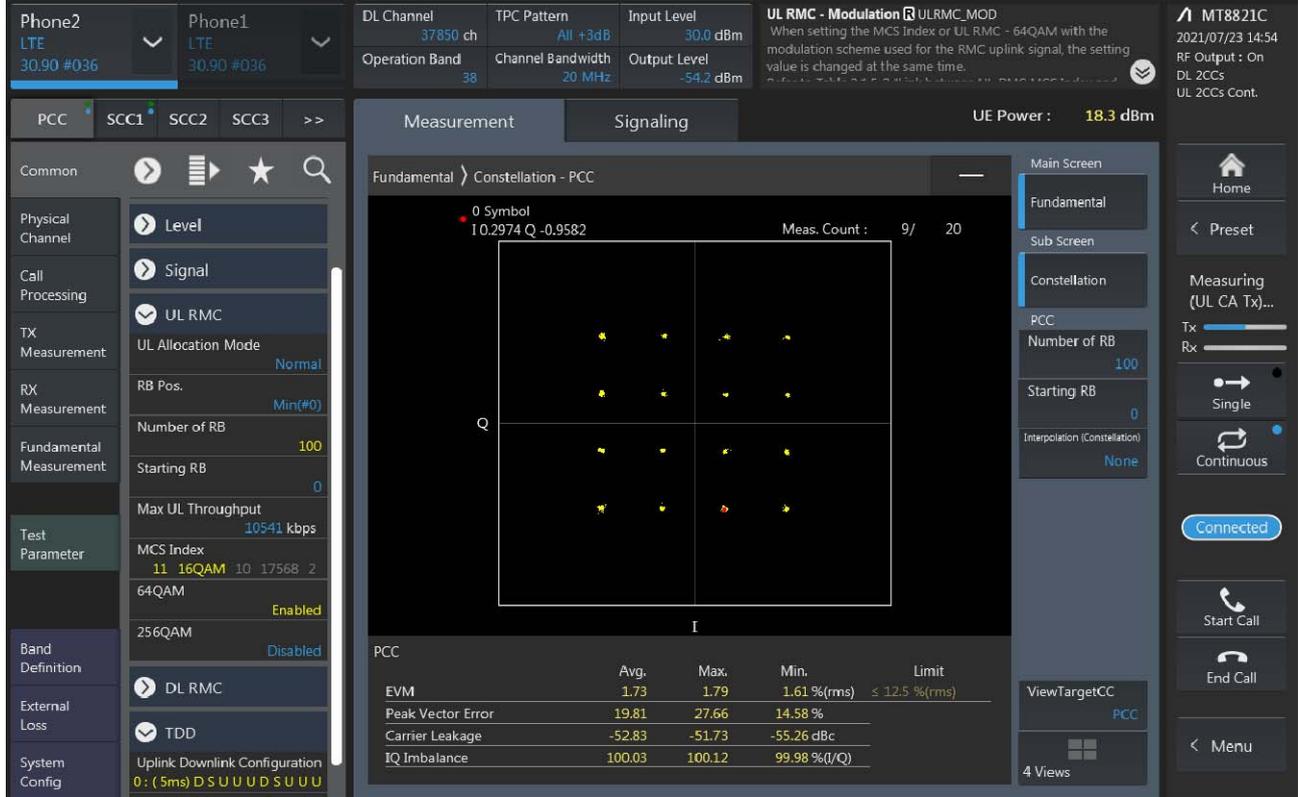
# Modulation Characteristics For LTE Test Band = LTE Band CA\_38C Test Mode = LTE /QPSK 100RB+100RB Test Channel = 37850+38048



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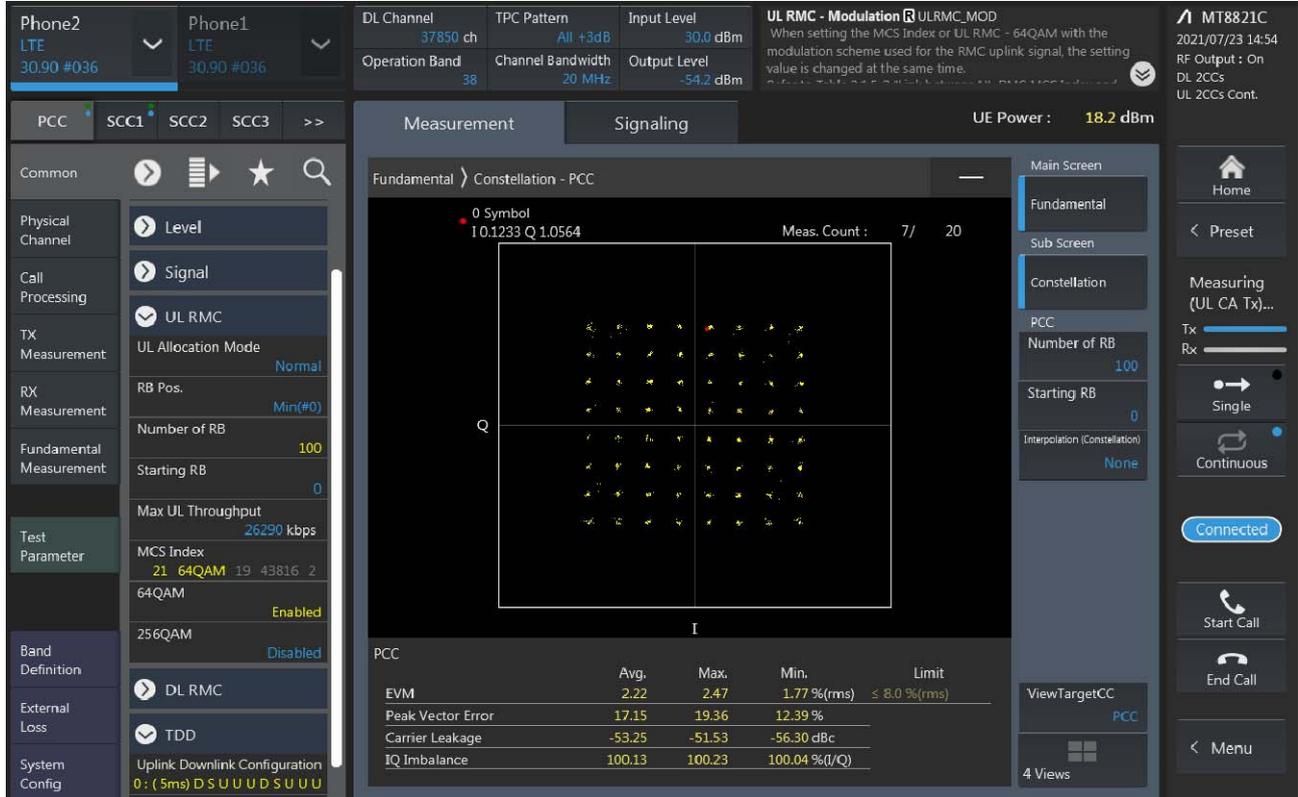
Test Mode = LTE /16QAM 100RB+100RB

Test Channel =37850+38048



Test Mode = LTE /64QAM 100RB+100RB

Test Channel = 37850+38048





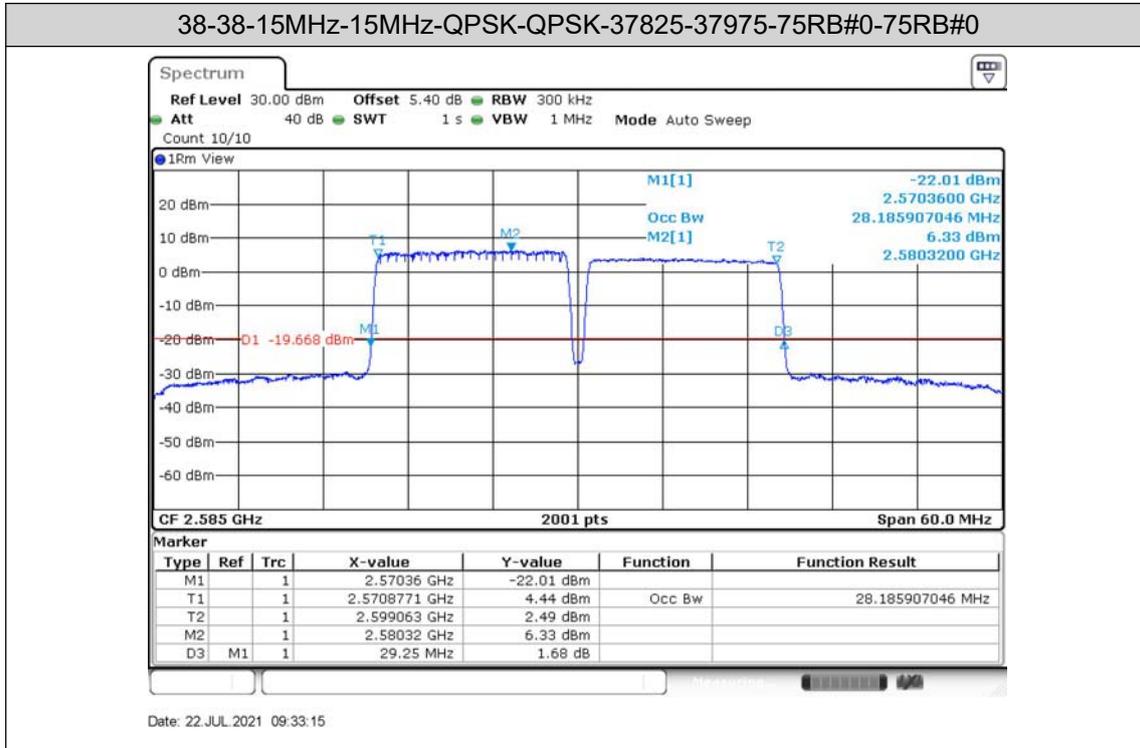
## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	28.186	29.250	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.216	29.220	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.216	29.250	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.186	29.250	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.276	29.220	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.216	29.250	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.216	29.220	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.186	29.250	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.276	29.250	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.403	39.040	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.483	39.040	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.403	39.120	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.403	39.040	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.403	39.040	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.483	39.040	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.403	39.040	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.403	39.040	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.403	39.120	PASS

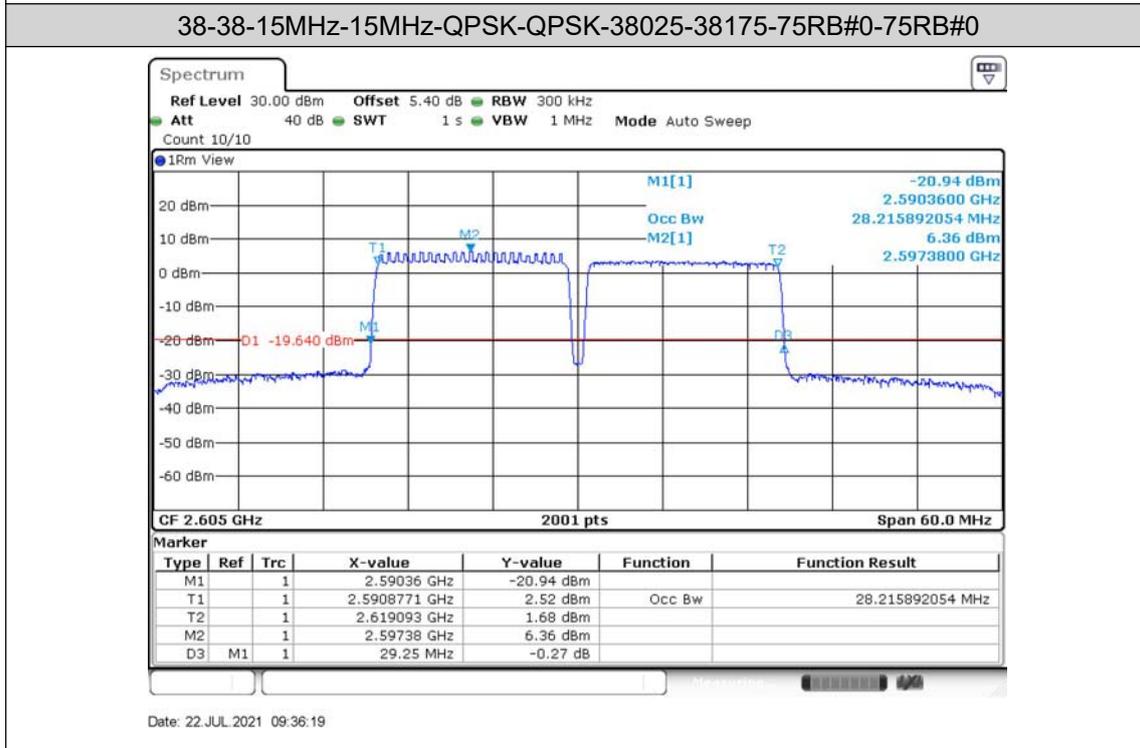
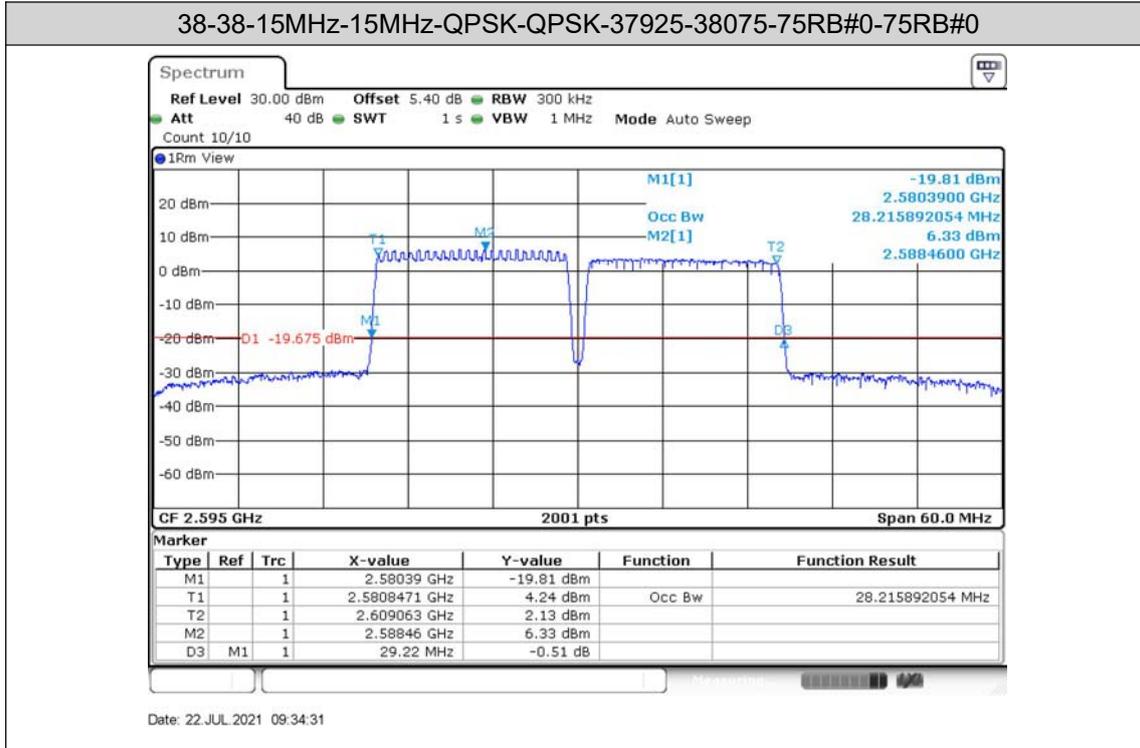


**Test Graphs**



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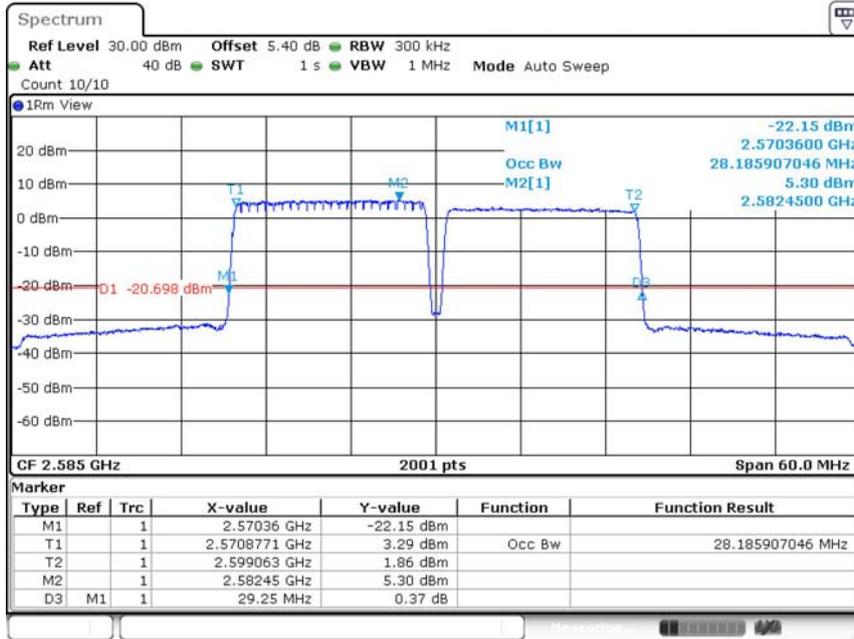
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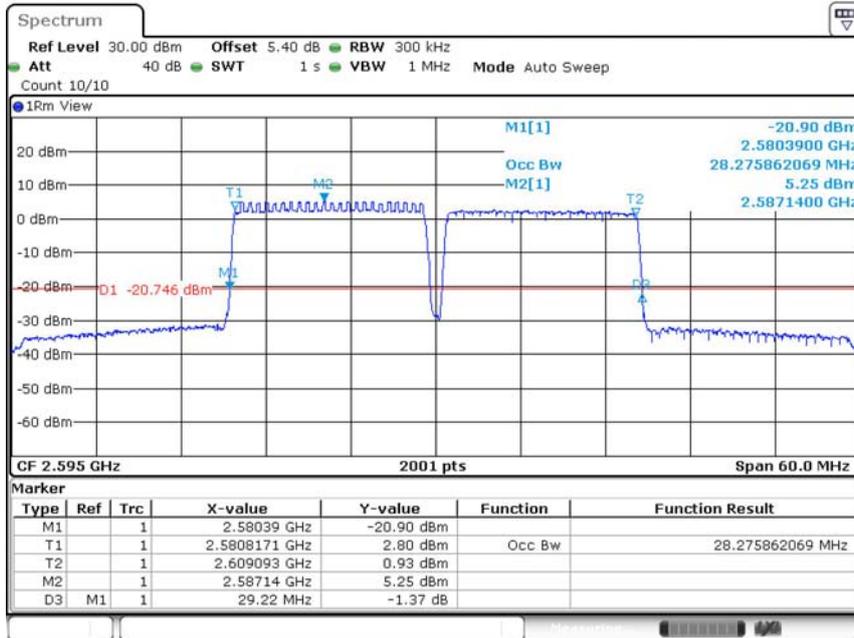
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**38-38-15MHz-15MHz-16QAM-16QAM-37825-37975-75RB#0-75RB#0**



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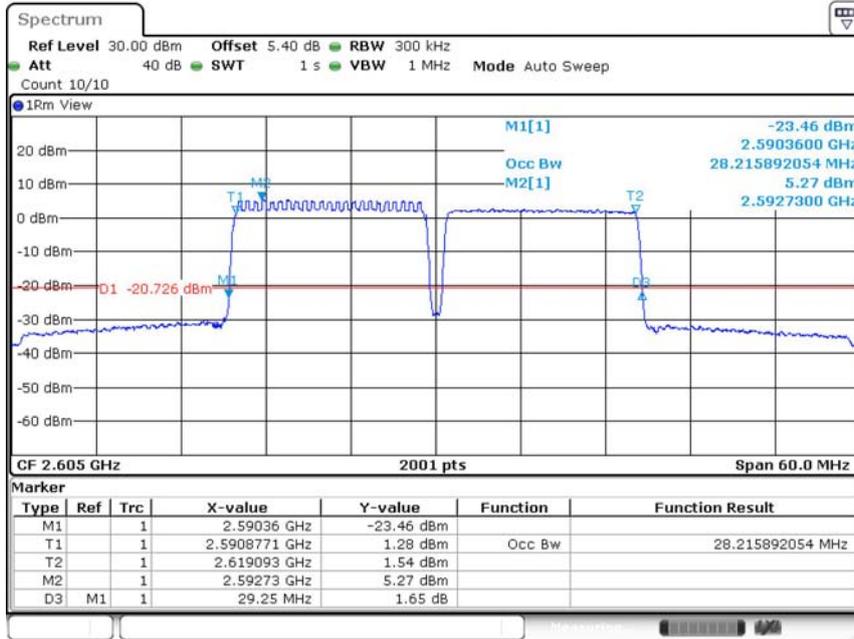
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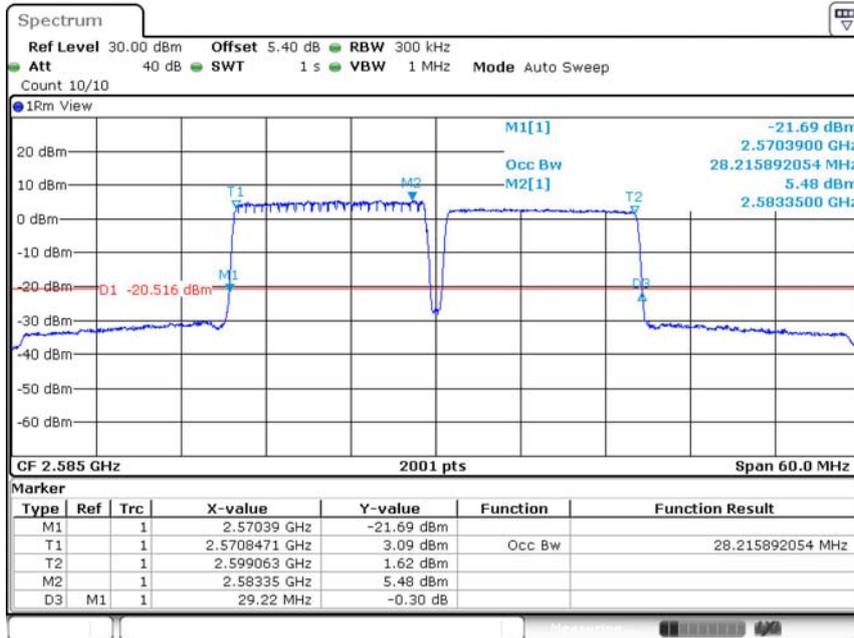


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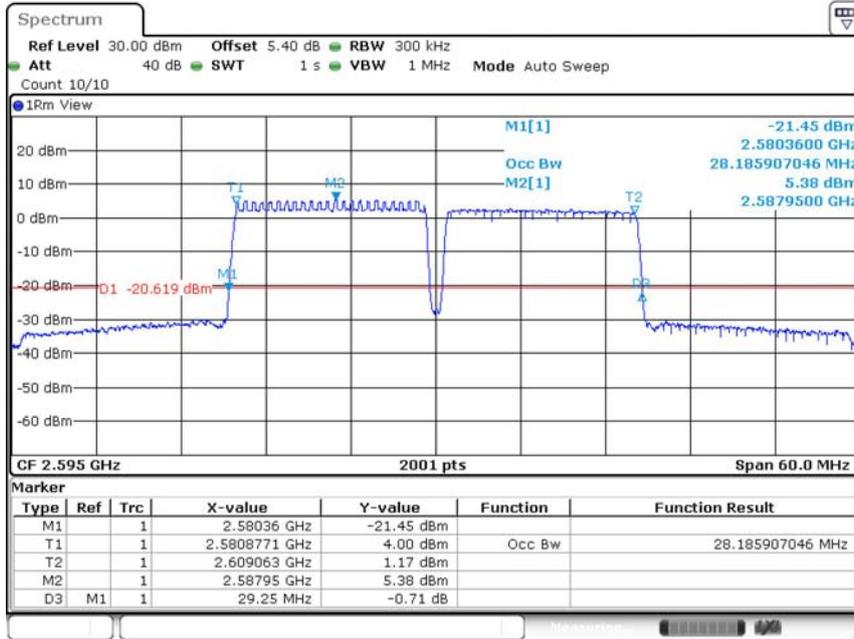
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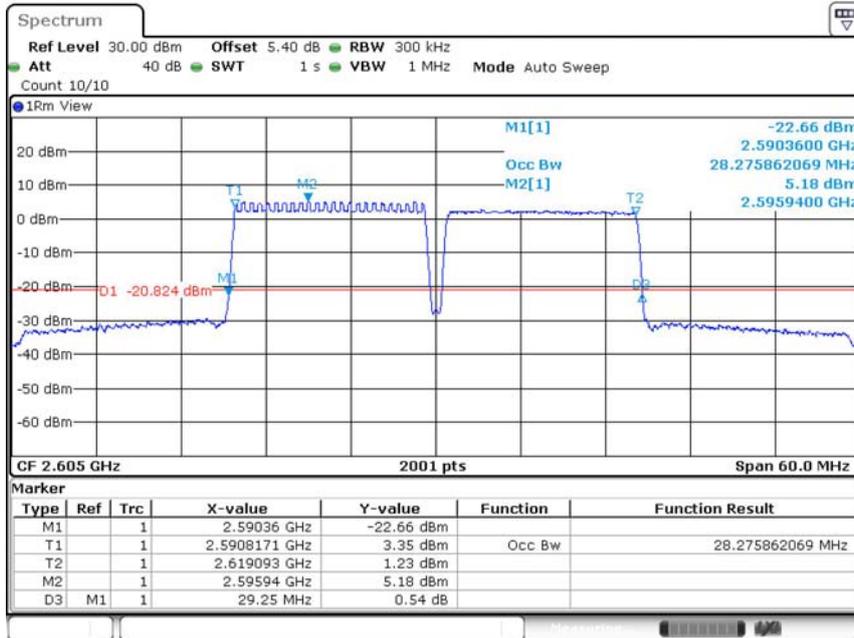


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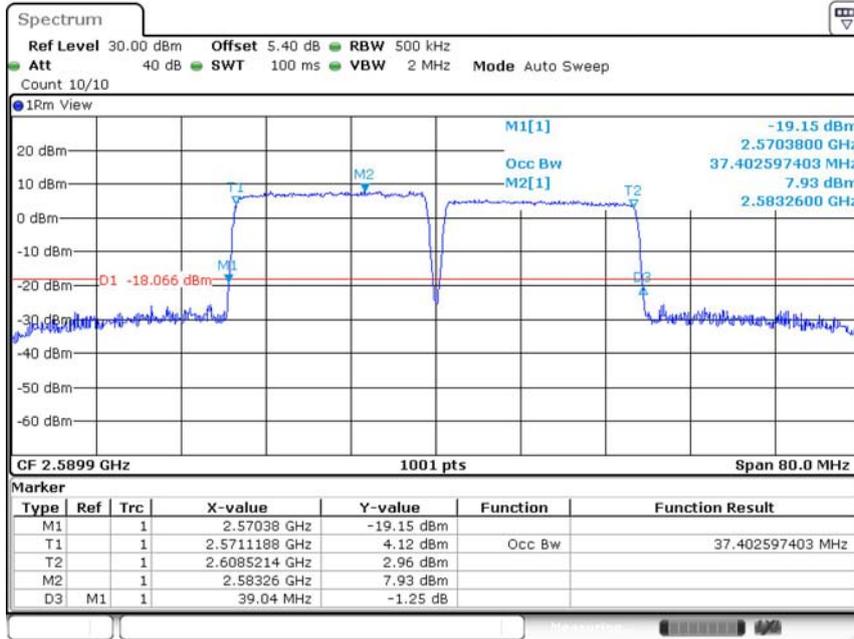
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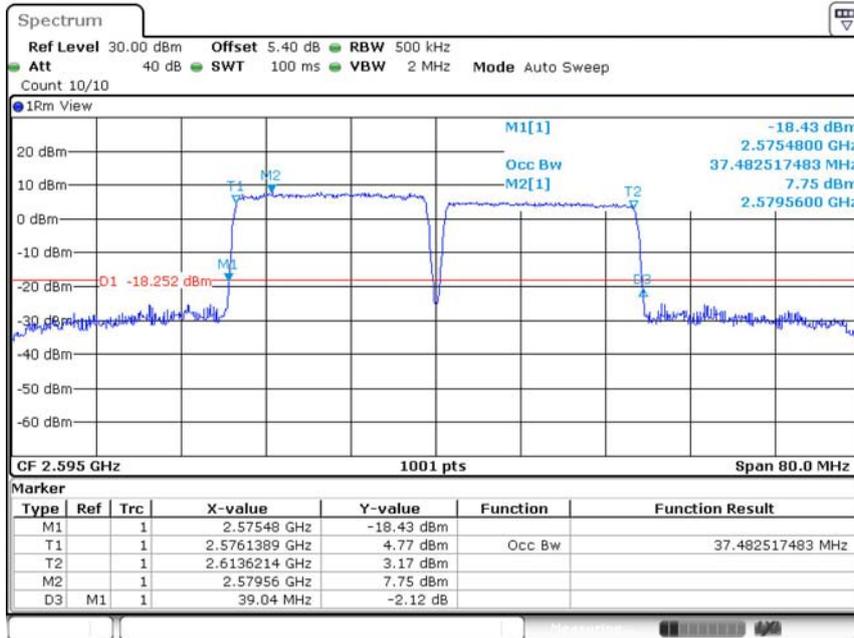


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Date: 22.JUL.2021 09:40:03

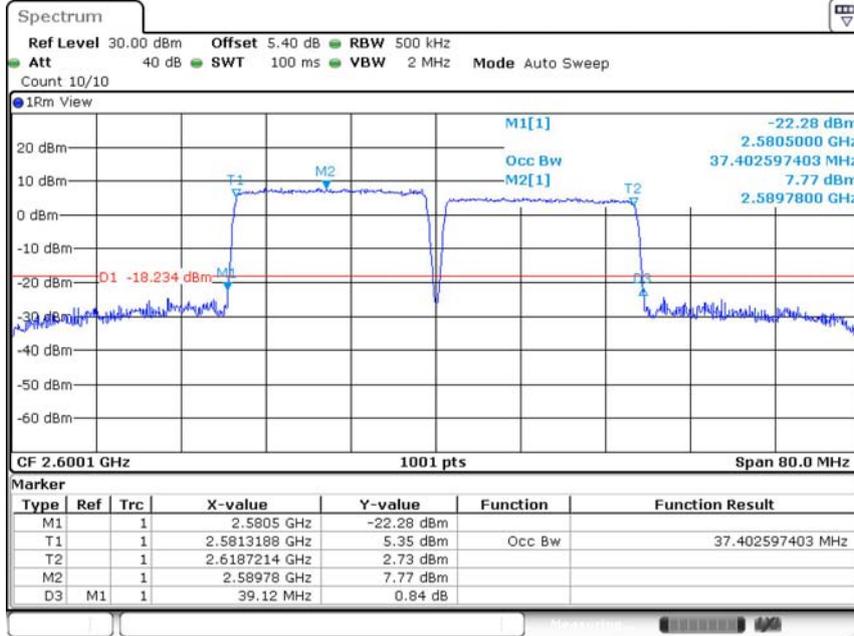
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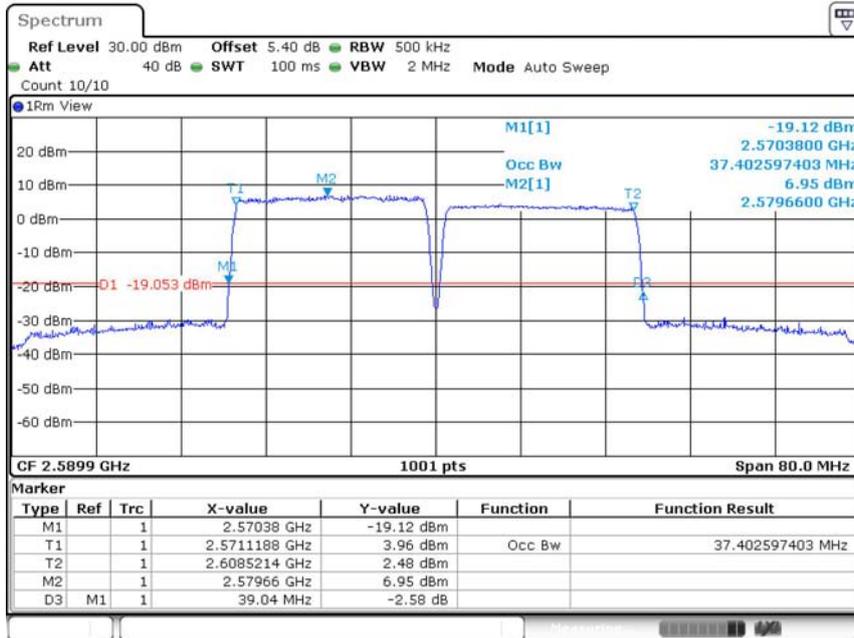


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Date: 22.JUL.2021 09:41:46

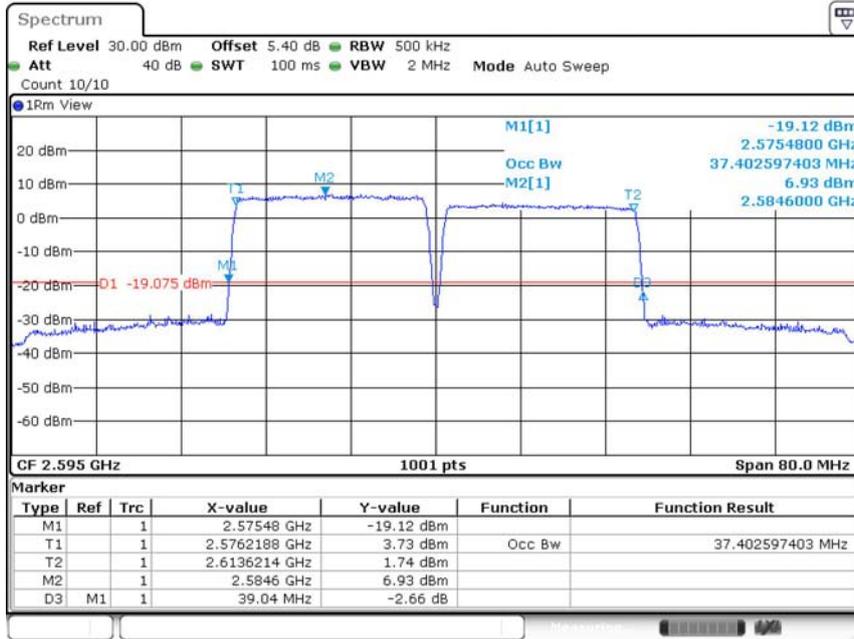
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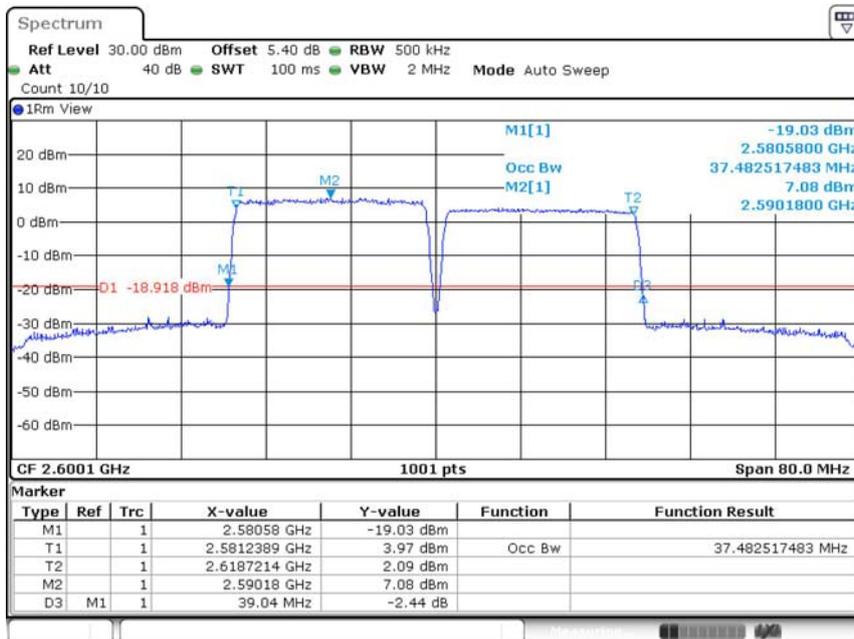


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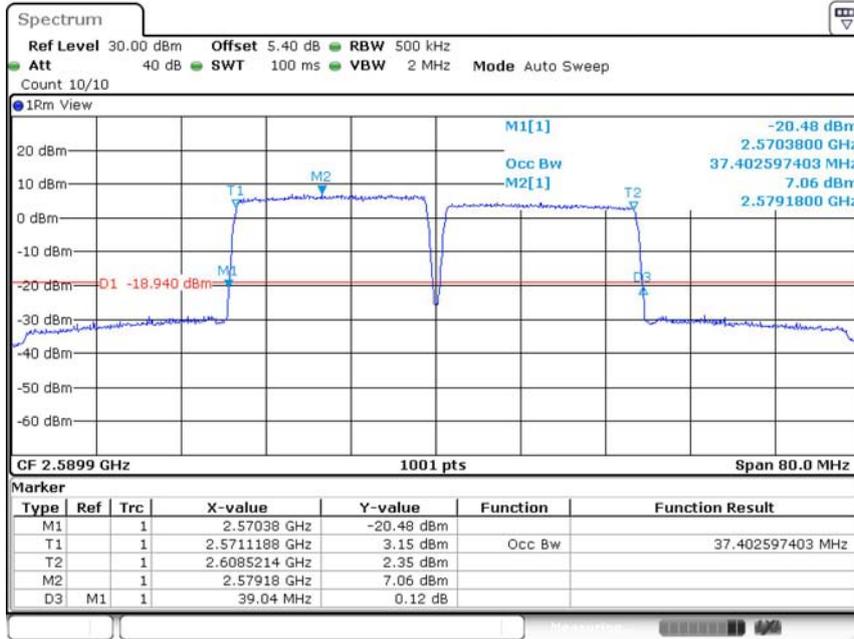
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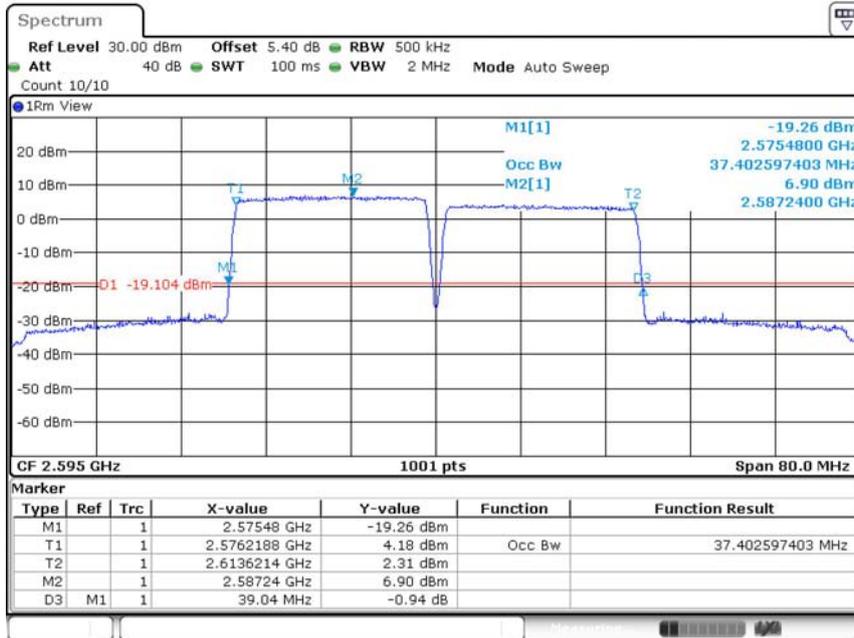


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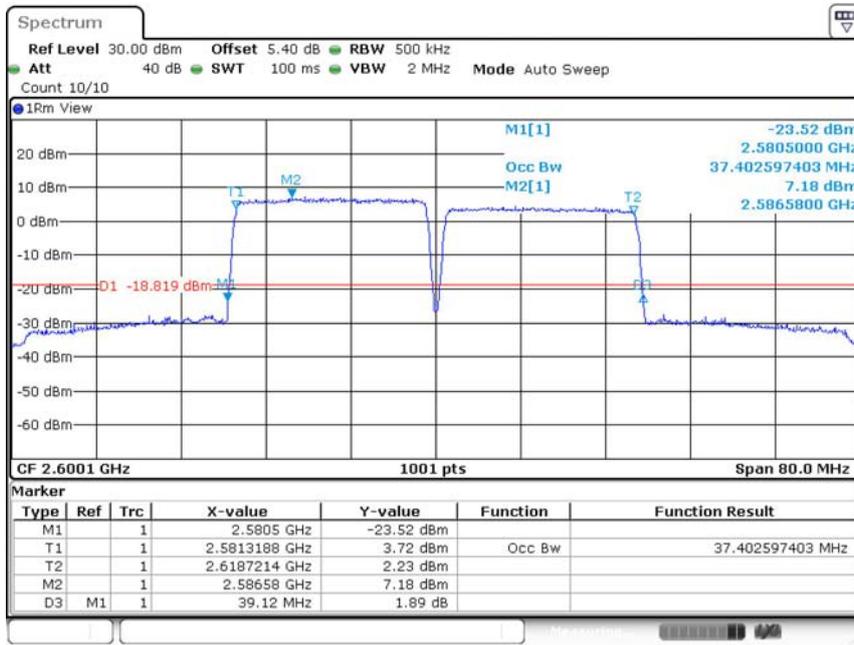
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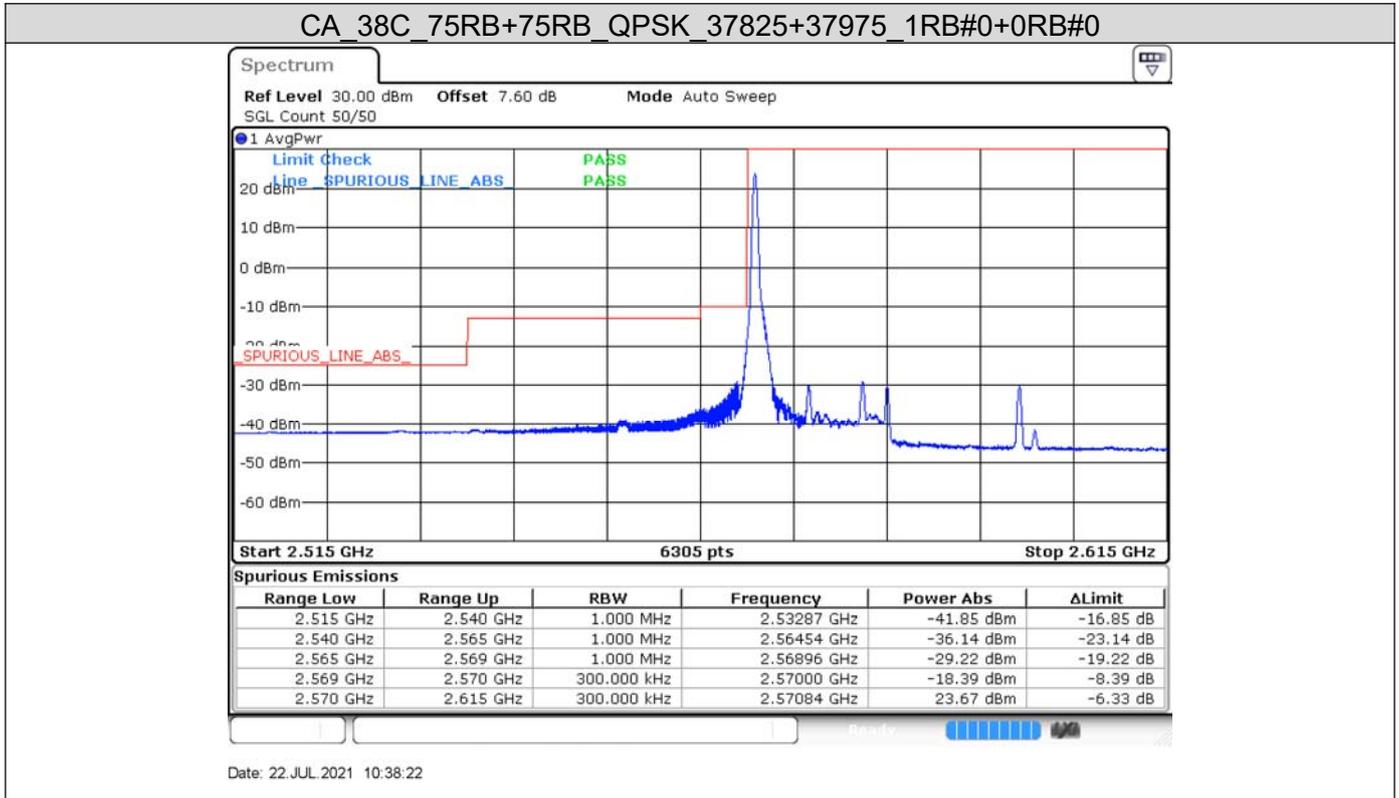
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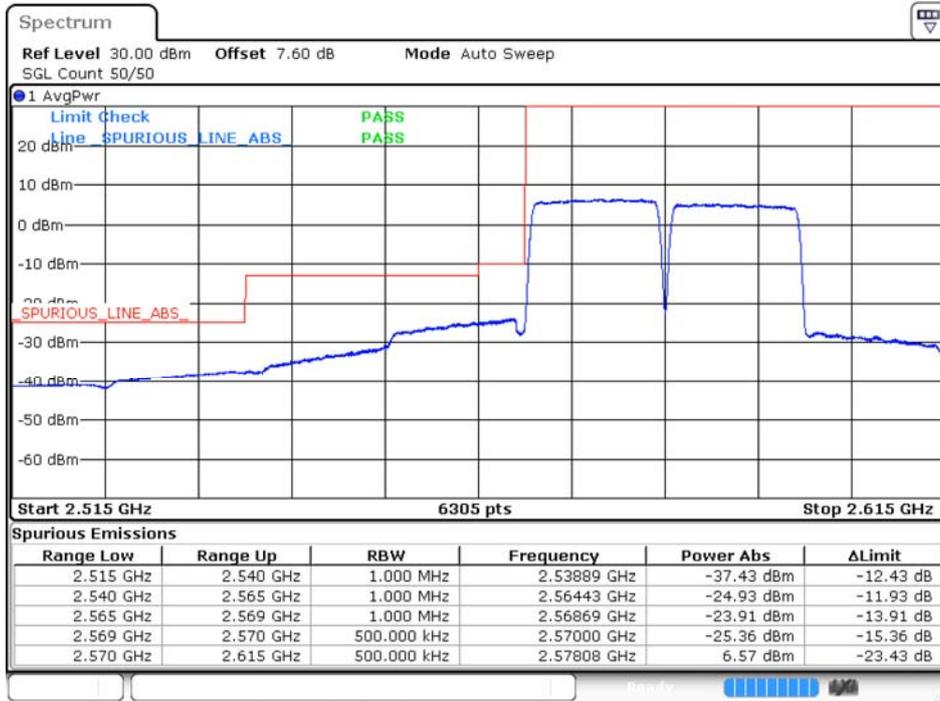
### Band Edge Test Graphs



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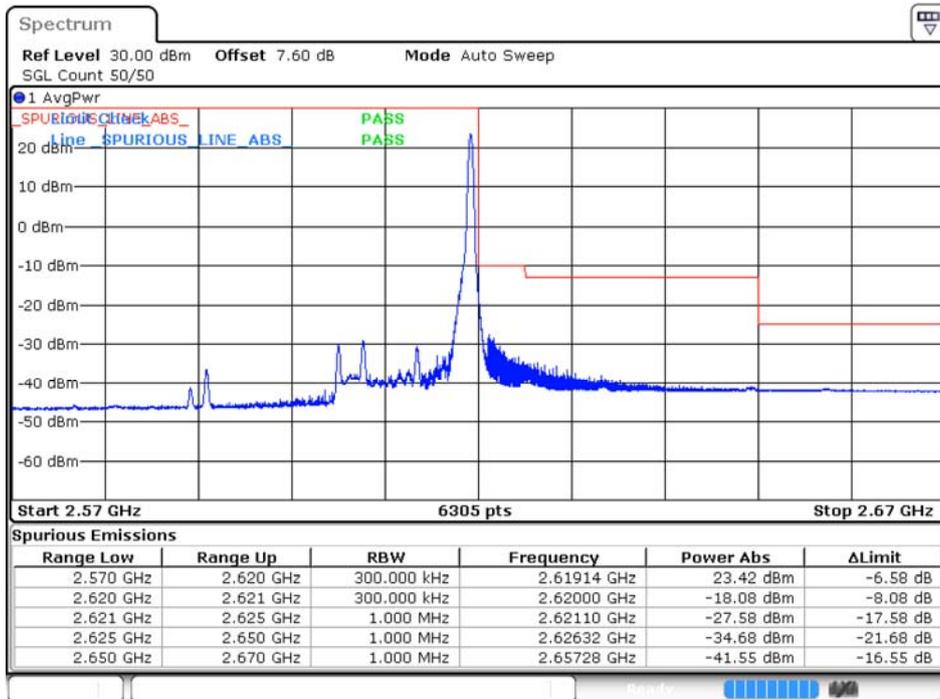
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CA\_38C\_75RB+75RB\_QPSK\_37825+37975\_75RB#0+75RB#0



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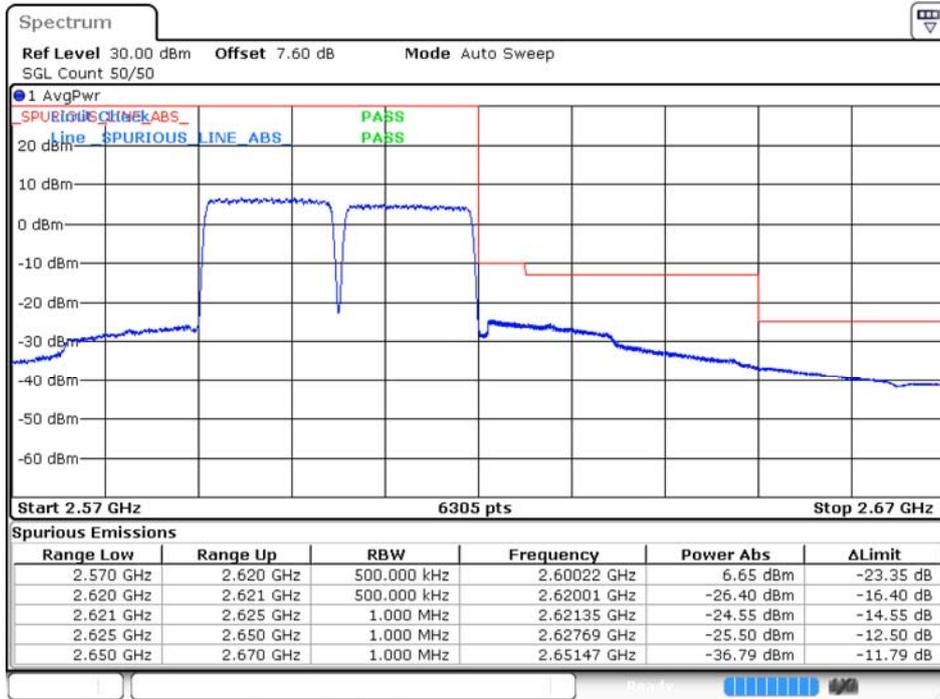
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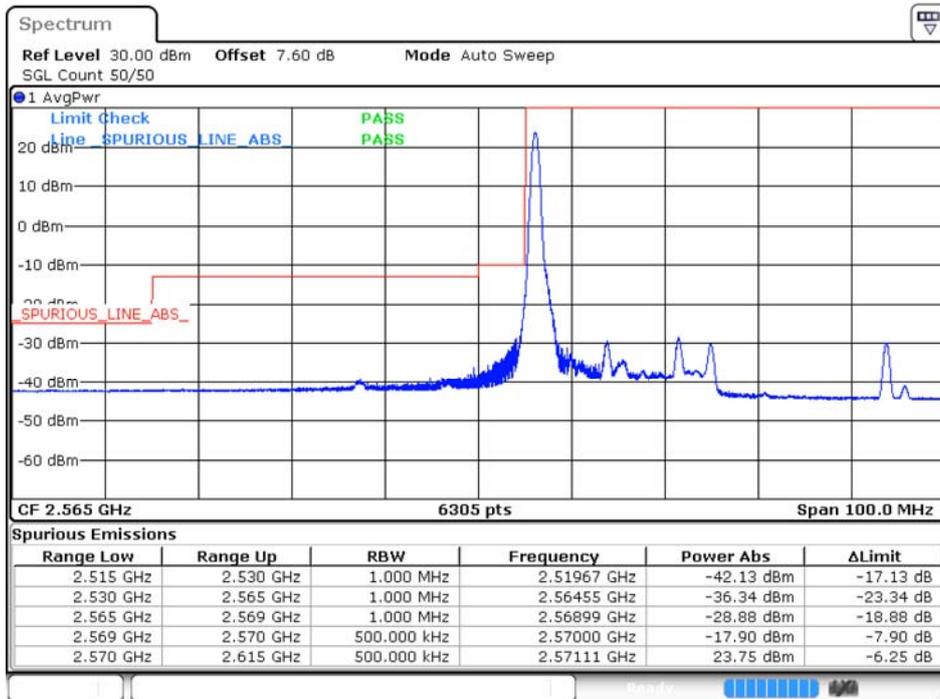


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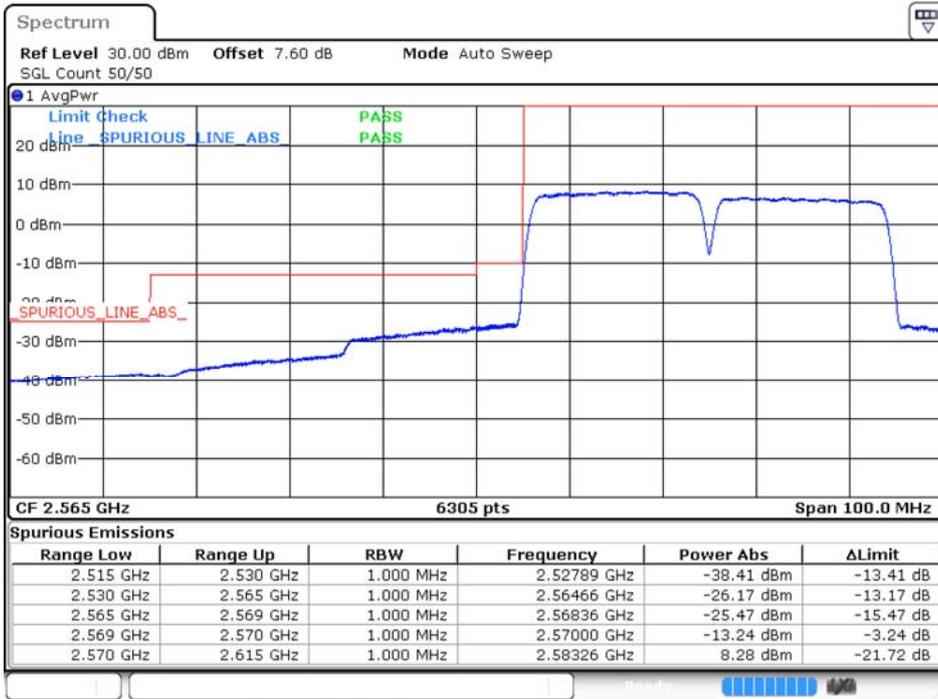
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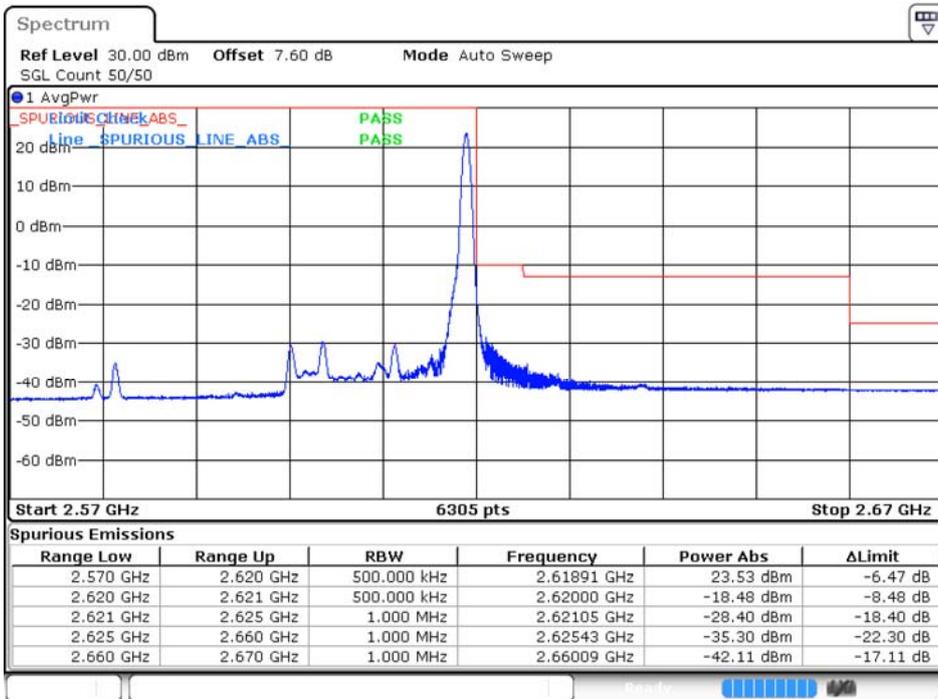


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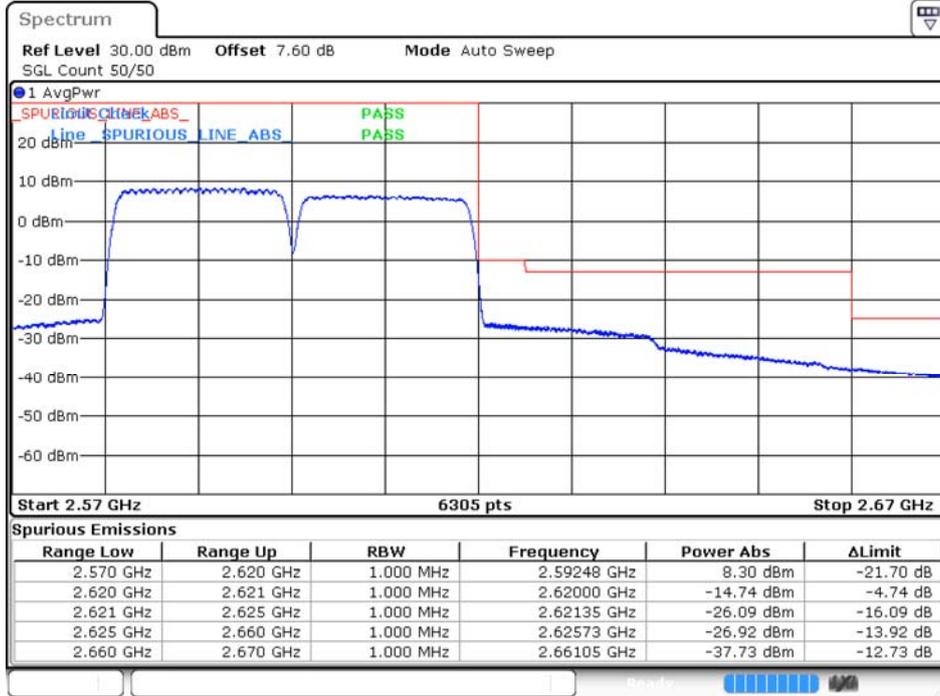
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Date: 22 JUL 2021 10:42:17



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Date: 22 JUL 2021 10:43:38



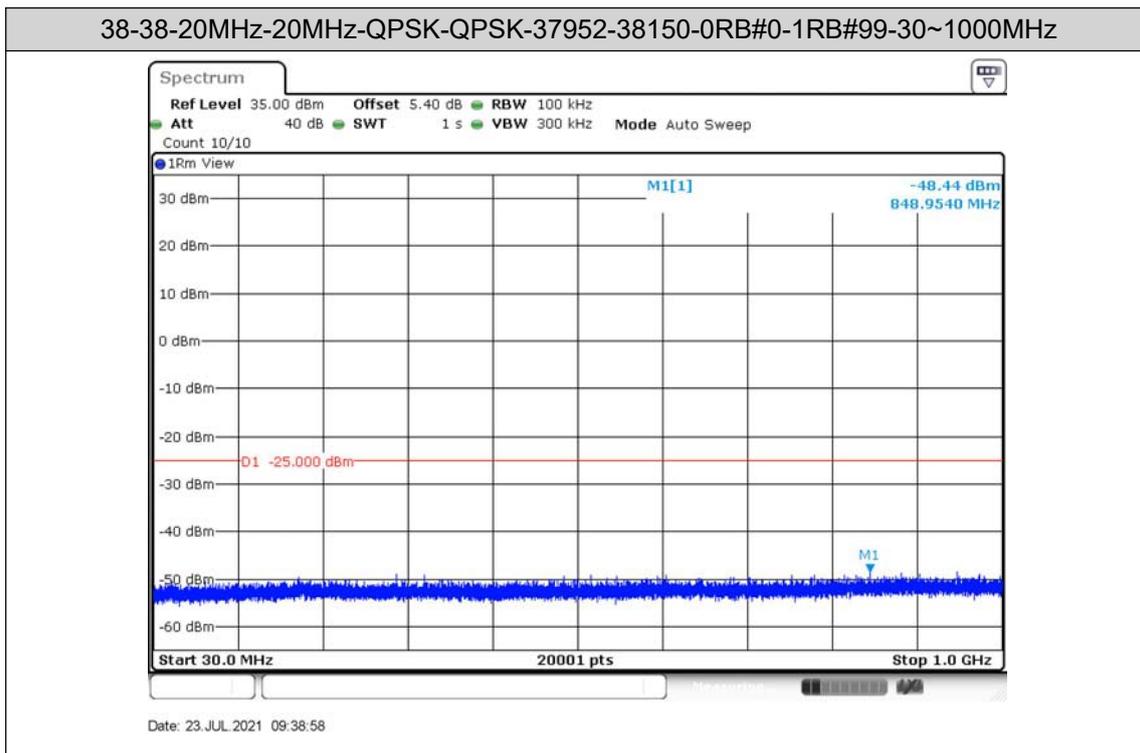
## Conducted Spurious Emission

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: 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.

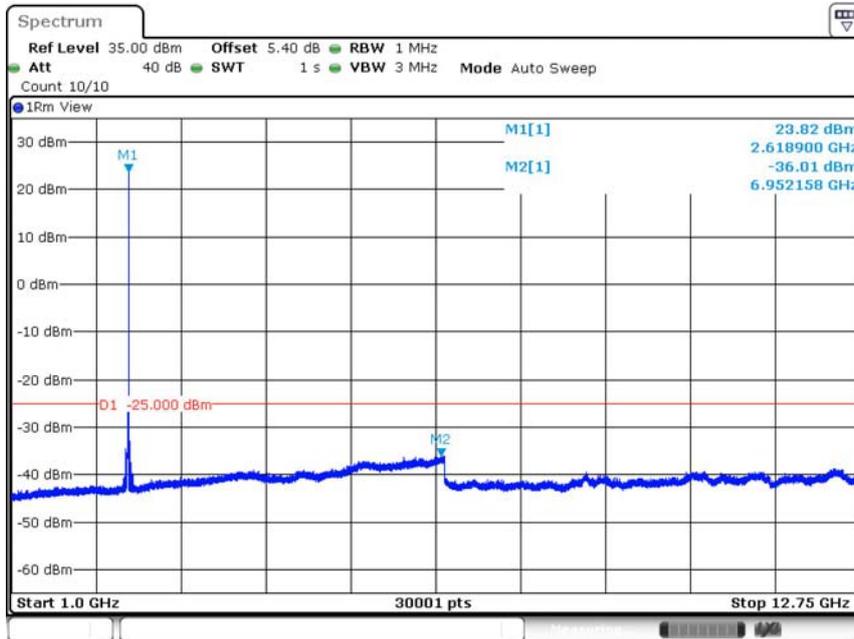
Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed

## Test Graphs



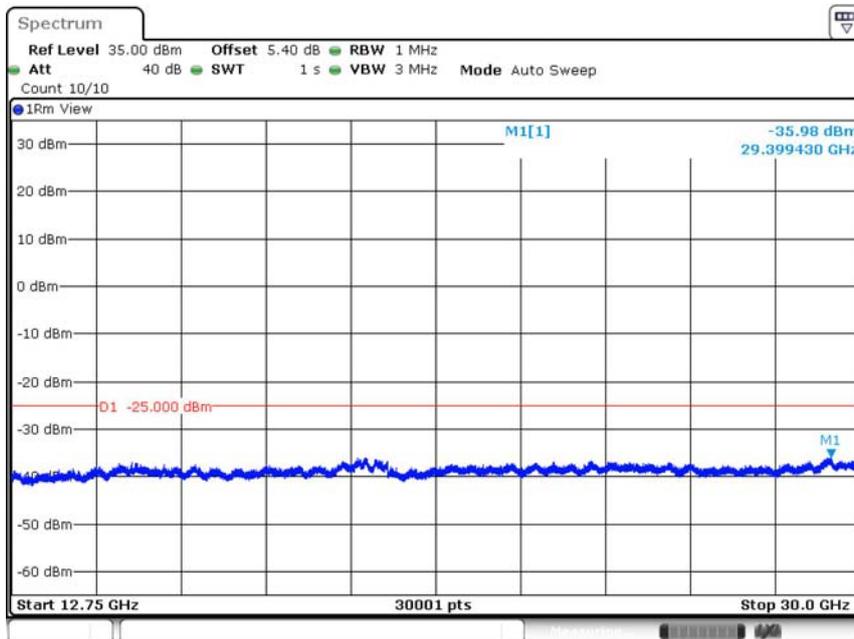
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**38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99-1000~12750MHz**



Date: 23.JUL.2021 09:39:13

**38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99-12750~30000MHz**

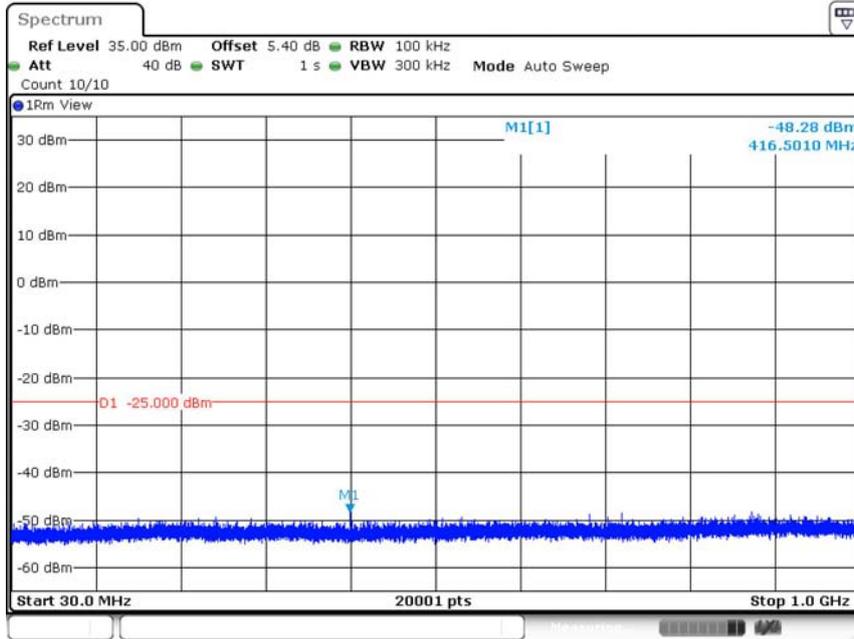


Date: 23.JUL.2021 09:39:28



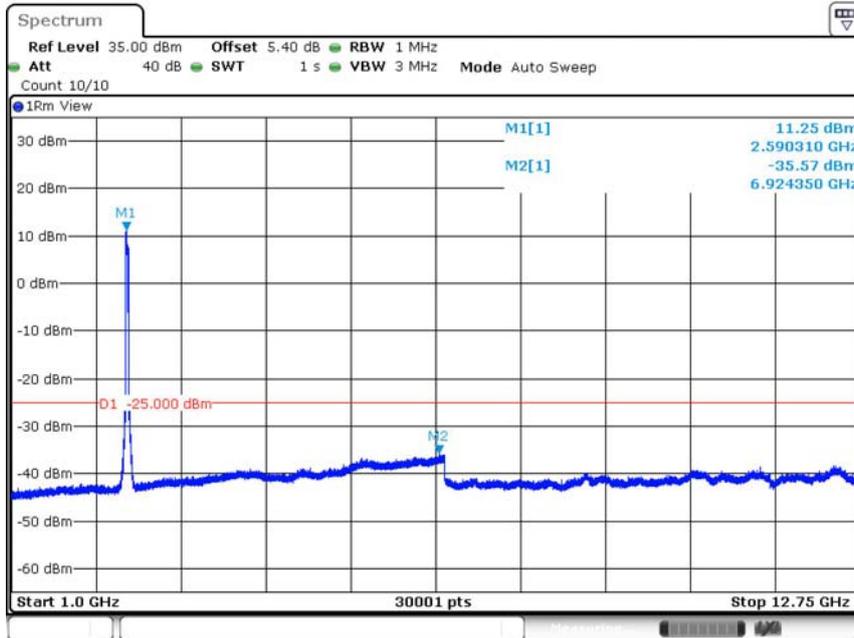
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0-30~1000MHz



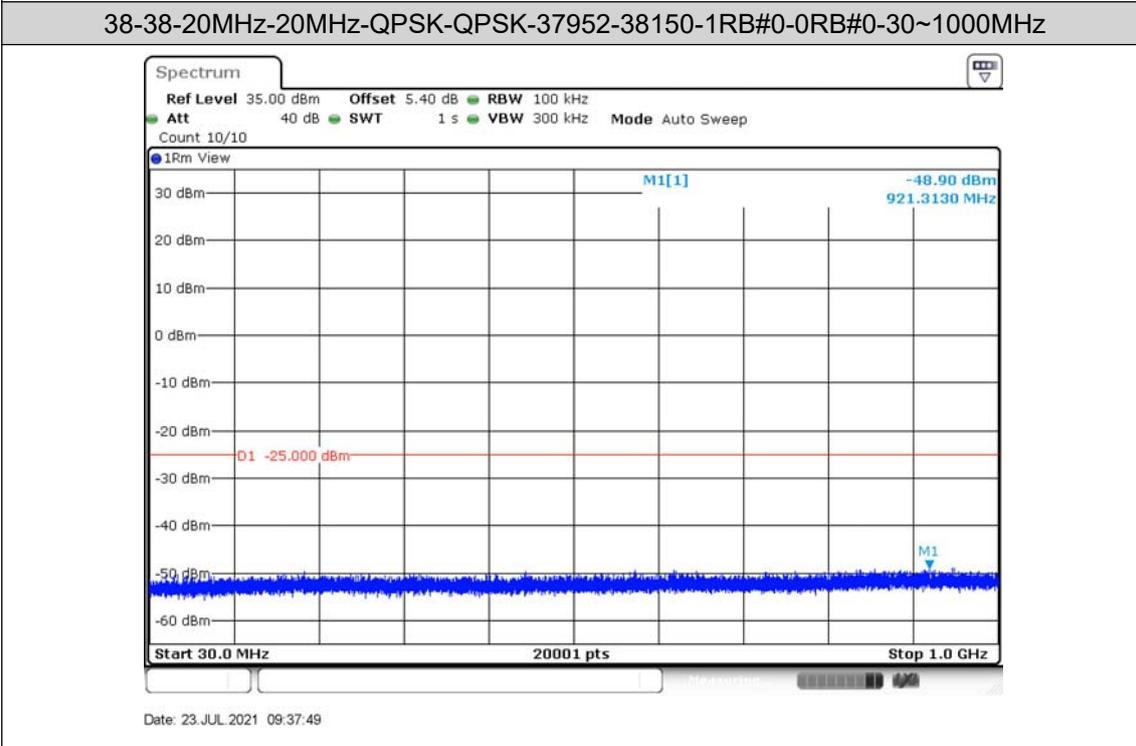
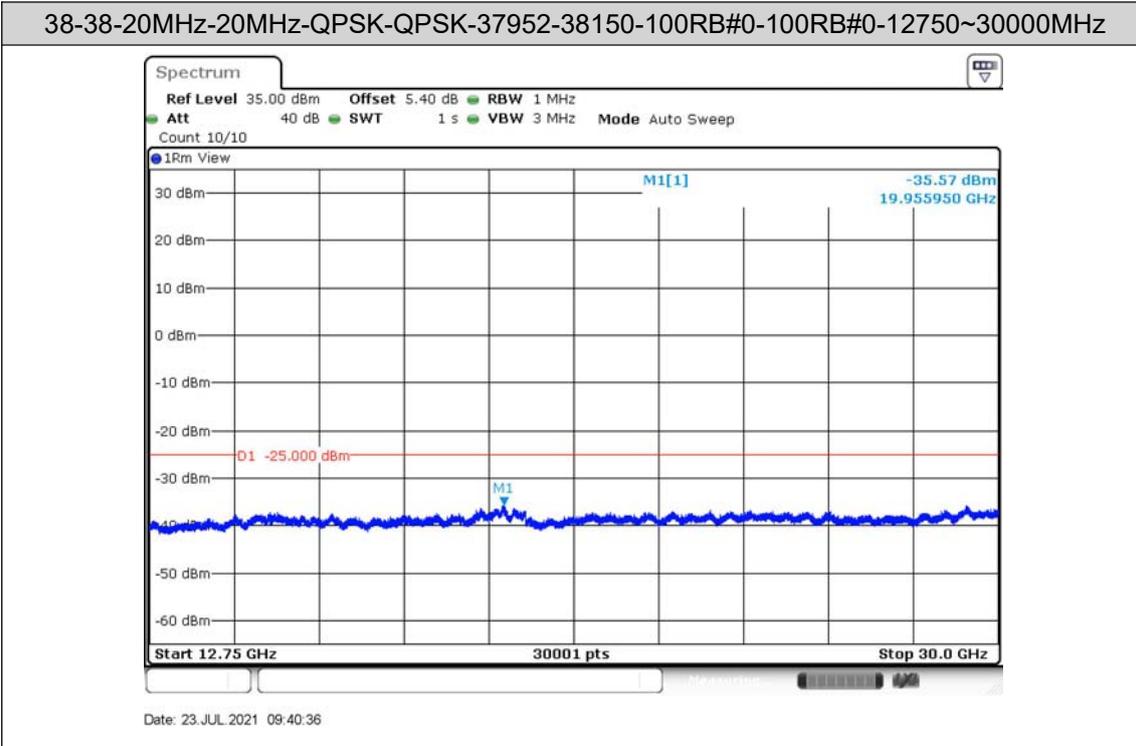
Date: 23.JUL.2021 09:40:06

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0-1000~12750MHz



Date: 23.JUL.2021 09:40:21

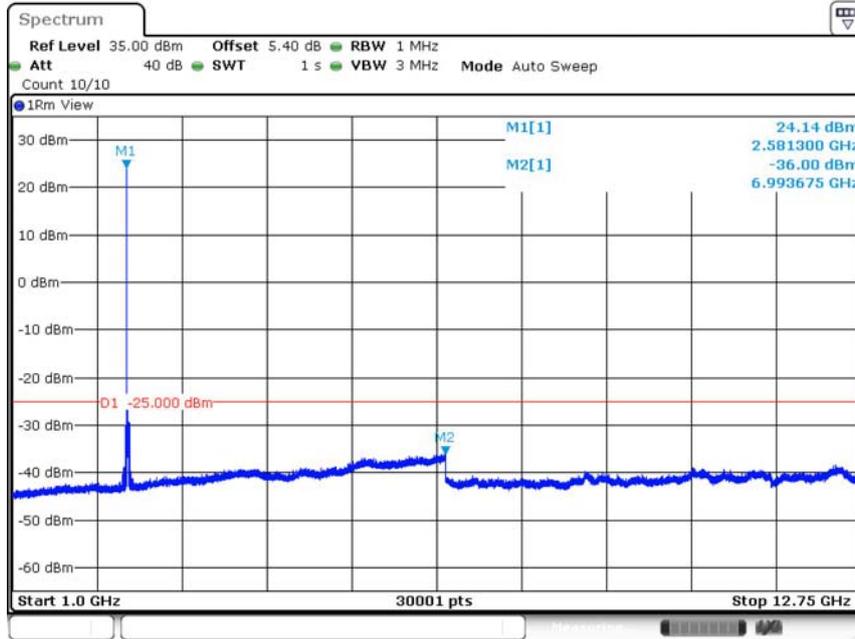




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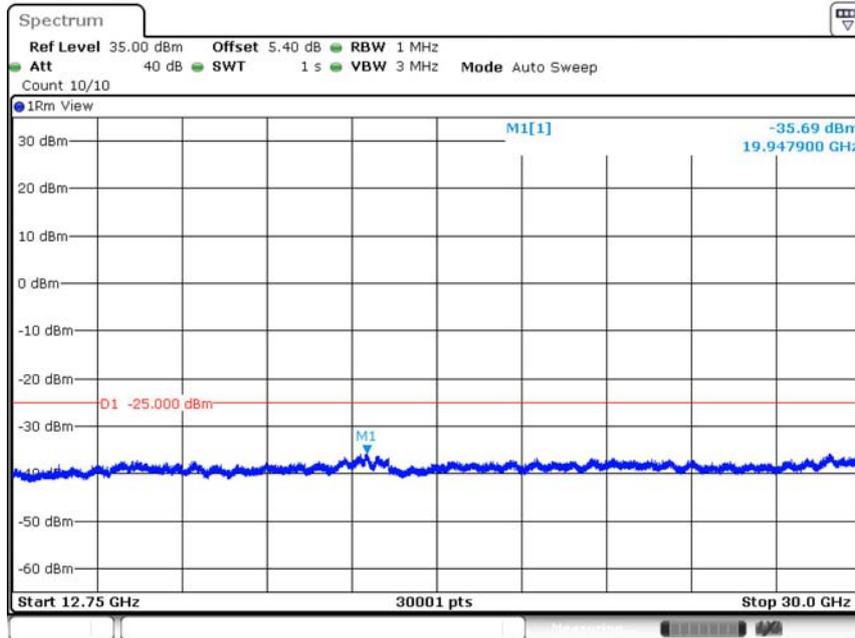
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**38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-ORB#0-1000~12750MHz**



Date: 23.JUL.2021 09:38:05

**38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-ORB#0-12750~30000MHz**



Date: 23.JUL.2021 09:38:20



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## Field Strength of Spurious Radiation

Test Band = 38C\_\_TM1 ANT2

Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1108.5054	21.61	-48.78	-25.00	23.78	Horizontal
2	2923.8962	21.83	-42.98	-25.00	17.98	Horizontal
3	3420.7710	53.16	-62.83	-25.00	37.83	Horizontal
4	7474.7237	49.96	-52.28	-25.00	27.28	Horizontal
5	11914.1957	47.65	-46.70	-25.00	21.70	Horizontal
6	16395.669	47.89	-45.94	-25.00	20.94	Horizontal

Test Band = 38C\_\_TM1 ANT2

Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1103.3052	21.76	-48.69	-25.00	23.69	Vertical
2	2961.1981	22.09	-42.68	-25.00	17.68	Vertical
3	5675.3838	50.48	-56.62	-25.00	31.62	Vertical
4	9020.5510	48.40	-50.61	-25.00	25.61	Vertical
5	12436.221	47.37	-46.50	-25.00	21.50	Vertical
6	17993.249	49.46	-44.28	-25.00	19.28	Vertical



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**Test Band = 38C\_\_TM1 ANT2**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1166.5083	21.90	-48.41	-25.00	23.41	Horizontal
2	2993.2997	22.20	-42.47	-25.00	17.47	Horizontal
3	3777.0389	53.17	-61.42	-25.00	36.42	Horizontal
4	7493.4747	49.54	-52.54	-25.00	27.54	Horizontal
5	12443.722	47.34	-46.47	-25.00	21.47	Horizontal
6	16403.170	48.80	-45.00	-25.00	20.00	Horizontal

**Test Band = 38C\_\_TM1 ANT2**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1082.7041	21.77	-48.41	-25.00	23.41	Vertical
2	2929.6965	22.04	-42.67	-25.00	17.67	Vertical
3	5010.8505	51.00	-58.50	-25.00	33.50	Vertical
4	7469.4735	49.66	-52.62	-25.00	27.62	Vertical
5	13362.518	46.98	-45.74	-25.00	20.74	Vertical
6	16406.170	48.13	-45.72	-25.00	20.72	Vertical



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**Test Band = 38C\_\_TM1 ANT2**  
**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1073.9037	21.70	-48.85	-25.00	23.85	Horizontal
2	2948.4974	21.94	-42.76	-25.00	17.76	Horizontal
3	5700.8850	50.79	-56.02	-25.00	31.02	Horizontal
4	9046.0523	48.70	-50.41	-25.00	25.41	Horizontal
5	11928.4464	47.64	-46.93	-25.00	21.93	Horizontal
6	16402.420	48.33	-45.45	-25.00	20.45	Horizontal

**Test Band = 38C\_\_TM1 ANT2**  
**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1087.9044	21.87	-48.47	-25.00	23.47	Vertical
2	2924.8962	21.83	-42.96	-25.00	17.96	Vertical
3	5694.1347	50.31	-56.55	-25.00	31.55	Vertical
4	7485.2243	49.56	-52.59	-25.00	27.59	Vertical
5	11935.9468	47.91	-46.78	-25.00	21.78	Vertical
6	16423.421	48.29	-45.88	-25.00	20.88	Vertical



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**Test Band = 38C\_\_TM1 ANT8**  
**Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1151.6076	21.63	-48.60	-25.00	23.60	Horizontal
2	2955.4978	22.26	-42.46	-25.00	17.46	Horizontal
3	5700.1350	50.32	-56.47	-25.00	31.47	Horizontal
4	9041.5521	48.66	-50.43	-25.00	25.43	Horizontal
5	11936.6968	47.89	-46.81	-25.00	21.81	Horizontal
6	16403.920	47.98	-45.83	-25.00	20.83	Horizontal

**Test Band = 38C\_\_TM1 ANT8**  
**Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1356.2178	21.46	-48.77	-25.00	23.77	Vertical
2	2938.7969	22.06	-42.69	-25.00	17.69	Vertical
3	5667.1334	50.75	-56.45	-25.00	31.45	Vertical
4	7482.2241	50.04	-52.14	-25.00	27.14	Vertical
5	13373.768	46.94	-45.68	-25.00	20.68	Vertical
6	16406.170	49.34	-44.51	-25.00	19.51	Vertical



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**Test Band = 38C\_\_TM1 ANT8**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1080.3040	21.52	-48.59	-25.00	23.59	Horizontal
2	2891.2946	22.31	-42.96	-25.00	17.96	Horizontal
3	5681.3841	50.69	-56.33	-25.00	31.33	Horizontal
4	9066.3033	48.92	-50.39	-25.00	25.39	Horizontal
5	11903.6952	48.00	-46.18	-25.00	21.18	Horizontal
6	16407.670	48.55	-45.33	-25.00	20.33	Horizontal

**Test Band = 38C\_\_TM1 ANT8**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1087.0044	21.72	-48.59	-25.00	23.59	Vertical
2	2997.4999	21.74	-42.79	-25.00	17.79	Vertical
3	5671.6336	50.67	-56.47	-25.00	31.47	Vertical
4	9034.0517	48.62	-50.44	-25.00	25.44	Vertical
5	13418.020	46.49	-45.94	-25.00	20.94	Vertical
6	16396.419	48.60	-45.21	-25.00	20.21	Vertical



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**Test Band = 38C\_\_TM1 ANT8  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1079.5040	22.66	-47.48	-25.00	22.48	Horizontal
2	2951.2976	22.19	-42.51	-25.00	17.51	Horizontal
3	5677.6339	50.70	-56.37	-25.00	31.37	Horizontal
4	9037.0519	48.65	-50.42	-25.00	25.42	Horizontal
5	11926.9463	47.70	-46.85	-25.00	21.85	Horizontal
6	16394.169	48.53	-45.33	-25.00	20.33	Horizontal

**Test Band = 38C\_\_TM1 ANT8  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1091.0046	21.92	-48.49	-25.00	23.49	Vertical
2	2967.2984	21.88	-43.00	-25.00	18.00	Vertical
3	5655.1328	50.61	-56.74	-25.00	31.74	Vertical
4	9035.5518	48.45	-50.62	-25.00	25.62	Vertical
5	14038.301	47.24	-44.89	-25.00	19.89	Vertical
6	16408.420	48.52	-45.37	-25.00	20.37	Vertical



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**Test Band = 38C\_\_TM1 ANT5**  
**Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1086.3043	21.78	-48.51	-25.00	23.51	Horizontal
2	2956.2978	21.82	-42.91	-25.00	17.91	Horizontal
3	4206.0603	52.01	-60.74	-25.00	35.74	Horizontal
4	6750.1875	49.37	-54.50	-25.00	29.50	Horizontal
5	9776.5888	47.88	-50.57	-25.00	25.57	Horizontal
6	14139.557	45.82	-45.72	-25.00	20.72	Horizontal

**Test Band = 38C\_\_TM1 ANT5**  
**Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1135.8068	22.40	-48.32	-25.00	23.32	Vertical
2	2942.6971	22.49	-42.25	-25.00	17.25	Vertical
3	3503.2752	52.74	-62.13	-25.00	37.13	Vertical
4	7464.9732	49.67	-52.65	-25.00	27.65	Vertical
5	11928.4464	47.85	-46.72	-25.00	21.72	Vertical
6	16406.170	48.41	-45.44	-25.00	20.44	Vertical



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**Test Band = 38C\_\_TM1 ANT5**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1079.5040	21.77	-48.37	-25.00	23.37	Horizontal
2	2918.8959	22.34	-42.55	-25.00	17.55	Horizontal
3	3537.0269	52.72	-62.51	-25.00	37.51	Horizontal
4	8981.5491	48.12	-50.98	-25.00	25.98	Horizontal
5	14042.052	46.70	-45.37	-25.00	20.37	Horizontal
6	16400.170	47.86	-45.88	-25.00	20.88	Horizontal

**Test Band = 38C\_\_TM1 ANT5**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150.1075	22.00	-48.19	-25.00	23.19	Vertical
2	2936.0968	22.47	-42.27	-25.00	17.27	Vertical
3	5682.1341	50.40	-56.61	-25.00	31.61	Vertical
4	9020.5510	48.14	-50.87	-25.00	25.87	Vertical
5	11915.6958	47.74	-46.63	-25.00	21.63	Vertical
6	16409.920	48.72	-45.20	-25.00	20.20	Vertical



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**Test Band = 38C\_\_TM1 ANT5**  
**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1078.6039	21.75	-48.45	-25.00	23.45	Horizontal
2	2996.8998	22.00	-42.55	-25.00	17.55	Horizontal
3	5712.1356	50.53	-56.53	-25.00	31.53	Horizontal
4	9038.5519	48.28	-50.80	-25.00	25.80	Horizontal
5	12870.493	46.80	-46.64	-25.00	21.64	Horizontal
6	17984.249	49.49	-44.06	-25.00	19.06	Horizontal

**Test Band = 38C\_\_TM1 ANT5**  
**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1095.0048	21.72	-48.72	-25.00	23.72	Vertical
2	2948.1974	21.91	-42.80	-25.00	17.80	Vertical
3	5691.8846	50.50	-56.39	-25.00	31.39	Vertical
4	9012.3006	48.31	-50.66	-25.00	25.66	Vertical
5	11909.6955	47.35	-46.93	-25.00	21.93	Vertical
6	16413.670	48.33	-45.66	-25.00	20.66	Vertical



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**Test Band = 38C\_\_TM1 ANT4**  
**Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1108.5054	21.61	-48.78	-25.00	23.78	Horizontal
2	2923.8962	21.83	-42.98	-25.00	17.98	Horizontal
3	4990.5995	50.84	-58.59	-25.00	33.59	Horizontal
4	7490.4745	49.87	-52.24	-25.00	27.24	Horizontal
5	11125.9063	47.02	-48.79	-25.00	23.79	Horizontal
6	15026.101	45.95	-45.80	-25.00	20.80	Horizontal

**Test Band = 38C\_\_TM1 ANT4**  
**Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1083.4042	21.56	-48.64	-25.00	23.64	Vertical
2	2942.6971	22.49	-42.25	-25.00	17.25	Vertical
3	5689.6345	50.41	-56.51	-25.00	31.51	Vertical
4	9060.3030	48.42	-50.82	-25.00	25.82	Vertical
5	13375.268	46.69	-45.91	-25.00	20.91	Vertical
6	16406.170	48.41	-45.44	-25.00	20.44	Vertical



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**Test Band = 38C\_\_TM1 ANT4**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1079.5040	21.77	-48.37	-25.00	23.37	Horizontal
2	2918.8959	22.34	-42.55	-25.00	17.55	Horizontal
3	5695.6348	50.62	-56.22	-25.00	31.22	Horizontal
4	10557.377	47.06	-50.16	-25.00	25.16	Horizontal
5	14042.052	46.70	-45.37	-25.00	20.37	Horizontal
6	16400.170	47.86	-45.88	-25.00	20.88	Horizontal

**Test Band = 38C\_\_TM1 ANT4**  
**Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1539.1270	21.65	-48.64	-25.00	23.64	Vertical
2	2936.0968	22.47	-42.27	-25.00	17.27	Vertical
3	5694.8847	50.25	-56.60	-25.00	31.60	Vertical
4	9020.5510	48.14	-50.87	-25.00	25.87	Vertical
5	11915.6958	47.74	-46.63	-25.00	21.63	Vertical
6	16409.920	48.72	-45.20	-25.00	20.20	Vertical



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**Test Band = 38C\_\_TM1 ANT4**  
**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2339.2670	22.24	-45.19	-25.00	20.19	Horizontal
2	2817.7909	21.76	-43.89	-25.00	18.89	Horizontal
3	6513.9257	50.31	-54.33	-25.00	29.33	Horizontal
4	10611.3806	47.85	-49.00	-25.00	24.00	Horizontal
5	14059.303	46.80	-45.24	-25.00	20.24	Horizontal
6	17306.965	50.07	-46.78	-25.00	21.78	Horizontal

**Test Band = 38C\_\_TM1 ANT4**  
**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1078.3039	21.39	-48.83	-25.00	23.83	Vertical
2	2948.1974	21.91	-42.80	-25.00	17.80	Vertical
3	5691.8846	50.50	-56.39	-25.00	31.39	Vertical
4	9012.3006	48.31	-50.66	-25.00	25.66	Vertical
5	14038.301	46.53	-45.60	-25.00	20.60	Vertical
6	17997.749	50.09	-43.74	-25.00	18.74	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.



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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	VN	NT	0.70	0.000271	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	VL	NT	14.10	0.005465	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	VH	NT	7.70	0.002984	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	2.60	0.001006	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	-0.60	-0.000232	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	7.90	0.003056	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	VN	NT	4.20	0.001621	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	VL	NT	4.40	0.001699	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	VH	NT	7.80	0.003011	±2.5	PASS



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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	10	3.40	0.001318	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	-10	4.60	0.001783	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	20	3.70	0.001434	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	-20	4.00	0.001550	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	30	4.60	0.001783	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	-30	-28.50	-0.011047	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	-50	2.60	0.001008	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	NV	0	5.10	0.001977	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	10.40	0.004023	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	2.80	0.001083	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	2.50	0.000967	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	3.20	0.001238	±2.5	PASS



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38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	2.70	0.001044	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	6.50	0.002514	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-50	11.20	0.004333	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	5.70	0.002205	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	-50	8.40	0.003243	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	0	8.90	0.003436	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	10	7.70	0.002973	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	-10	10.80	0.004170	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	20	5.50	0.002123	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	-20	7.70	0.002973	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	30	8.40	0.003243	±2.5	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	NV	-30	8.80	0.003397	±2.5	PASS

The End



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