



Appendix B

E-UTRA Band CA_38C



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1 Effective (Isotropic) Radiated Power Output Data

1.1 Max Power Test Result for LTE Band CA_38C(ANT3)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	20.99	20.09	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	20.94	20.04	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	21.37	20.47	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	21.16	20.26	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	21.63	20.73	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	20.93	20.03	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	20.78	19.88	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	20.66	19.76	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	20.83	19.93	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	21.18	20.28	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	20.97	20.07	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	20.94	20.04	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	19.80	18.9	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	19.80	18.9	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	20.02	19.12	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	20.97	20.07	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	21.29	20.39	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	21.26	20.36	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	19.39	18.49	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	19.79	18.89	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	19.68	18.78	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	19.56	18.66	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	19.61	18.71	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	19.95	19.05	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	18.89	17.99	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	18.96	18.06	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	19.35	18.45	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	20.16	19.26	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	20.14	19.24	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	18.18	17.28	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	18.58	17.68	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	18.67	17.77	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	18.75	17.85	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	18.72	17.82	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	19.04	18.14	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	19.04	18.14	33.00	PASS



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1.2 Max Power Test Result for LTE Band CA_38C(ANT4)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	22.79	21.99	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	22.9	22.1	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	23.06	22.26	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	23.18	22.38	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	23.29	22.49	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	22.48	21.68	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	22.41	21.61	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	22.6	21.8	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	22.56	21.76	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	22.76	21.96	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	22.62	21.82	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	22.87	22.07	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	21.74	20.94	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	21.77	20.97	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	21.94	21.14	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	23.01	22.21	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	23.26	22.46	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	23.25	22.45	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	21.35	20.55	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	21.36	20.56	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	21.45	20.65	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	21.45	20.65	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	21.64	20.84	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	21.62	20.82	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	20.58	19.78	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	20.76	19.96	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	20.94	20.14	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	22.08	21.28	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	22.18	21.38	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	20.22	19.42	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	20.53	19.73	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	20.43	19.63	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	20.72	19.92	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	20.58	19.78	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	20.66	19.86	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	20.84	20.04	33.00	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]



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2 Peak-to-Average Ratio

Part I - Test Results

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	9.36	13.00	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	8.70	13.00	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	8.67	13.00	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	9.68	13.00	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	9.65	13.00	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	9.51	13.00	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	8.46	13.00	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	9.74	13.00	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	9.71	13.00	PASS



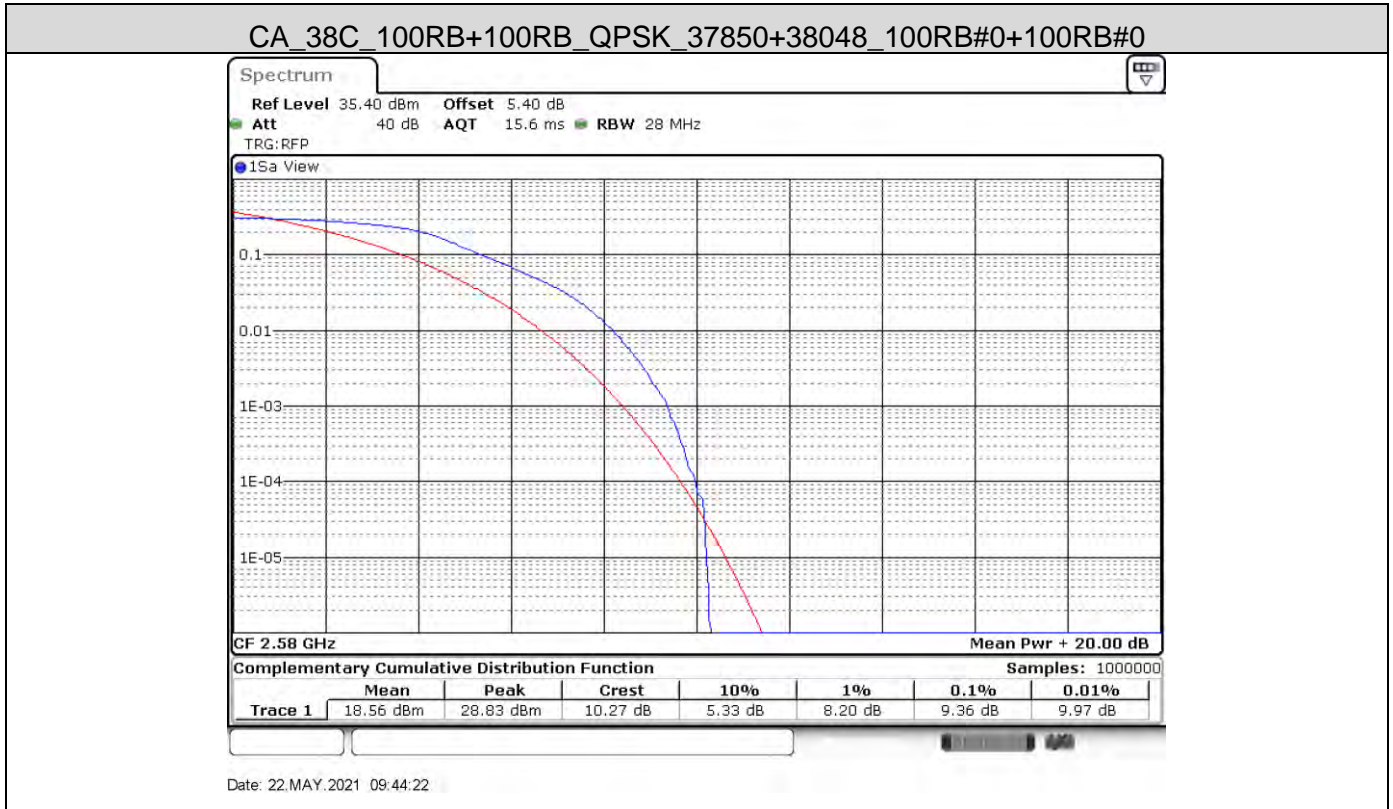
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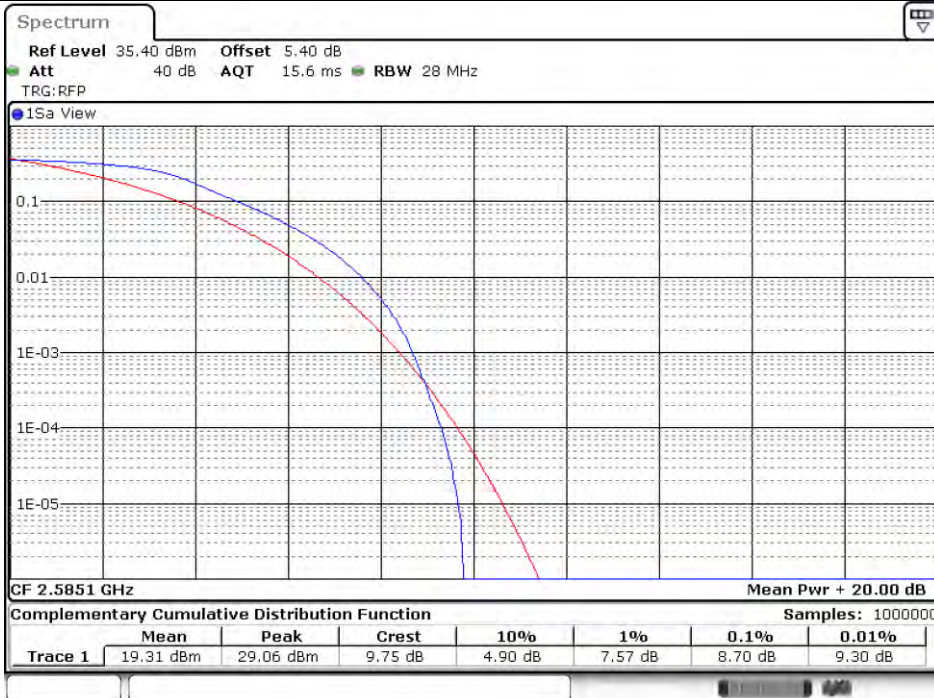
2.1 For LTE

2.1.1 Test Band = LTE Band CA_38C





CA_38C_100RB+100RB_QPSK_37901+38099_100RB#0+100RB#0



Date: 22.MAY.2021 09:44:45

CA_38C_100RB+100RB_QPSK_37952+38150_100RB#0+100RB#0



Date: 22.MAY.2021 09:45:07



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CA_38C_100RB+100RB_16QAM_37850+38048_100RB#0+100RB#0



Date: 22.MAY.2021 09:44:33

CA_38C_100RB+100RB_16QAM_37901+38099_100RB#0+100RB#0



Date: 22.MAY.2021 09:44:56

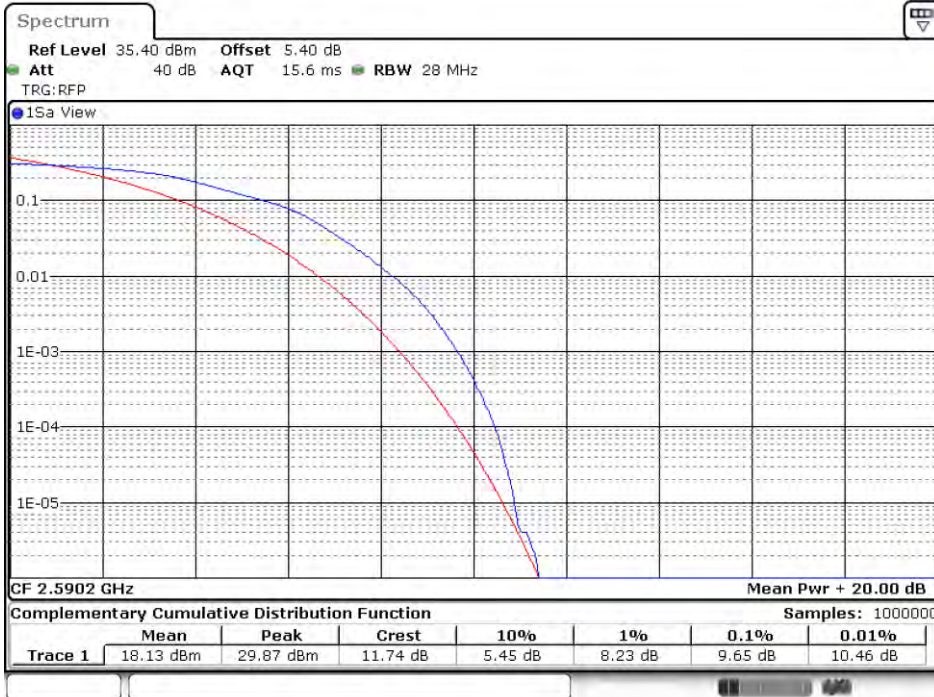


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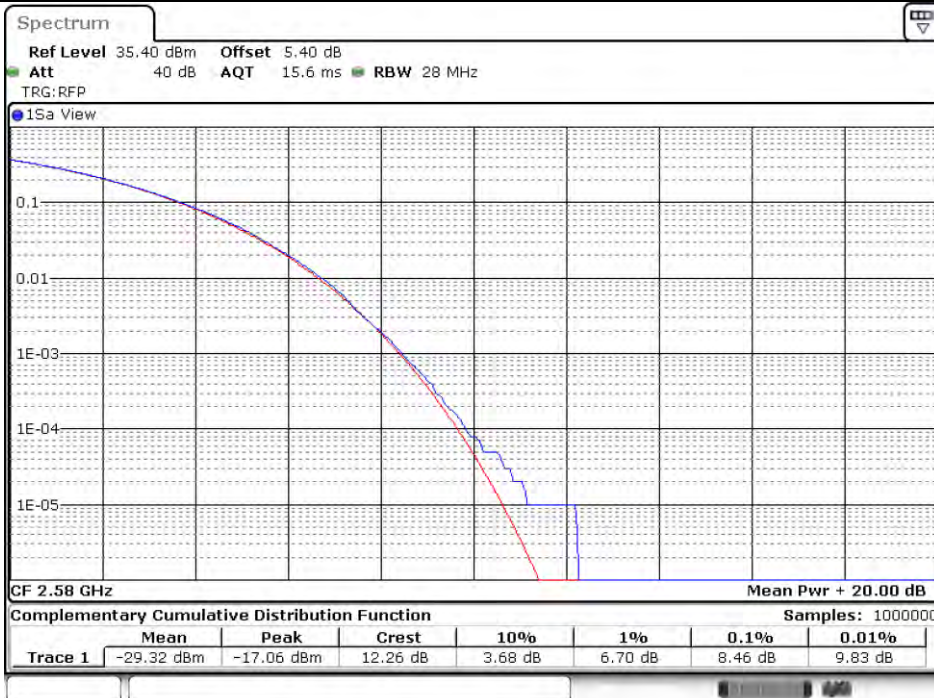


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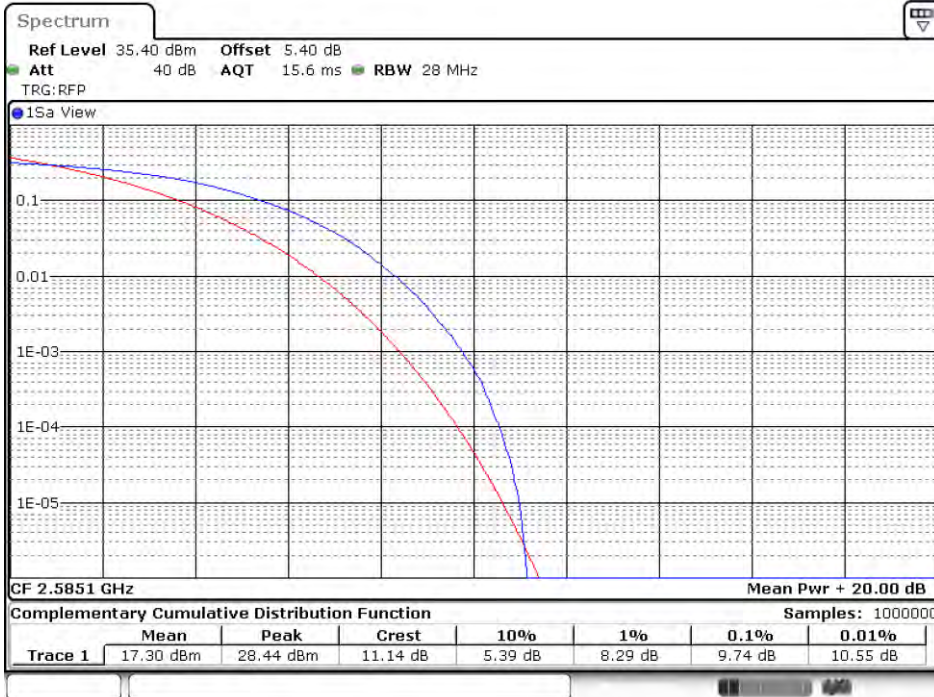


Date: 22.MAY.2021 09:47:49





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Date: 22.MAY.2021 09:48:00

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Date: 22.MAY.2021 09:48:12



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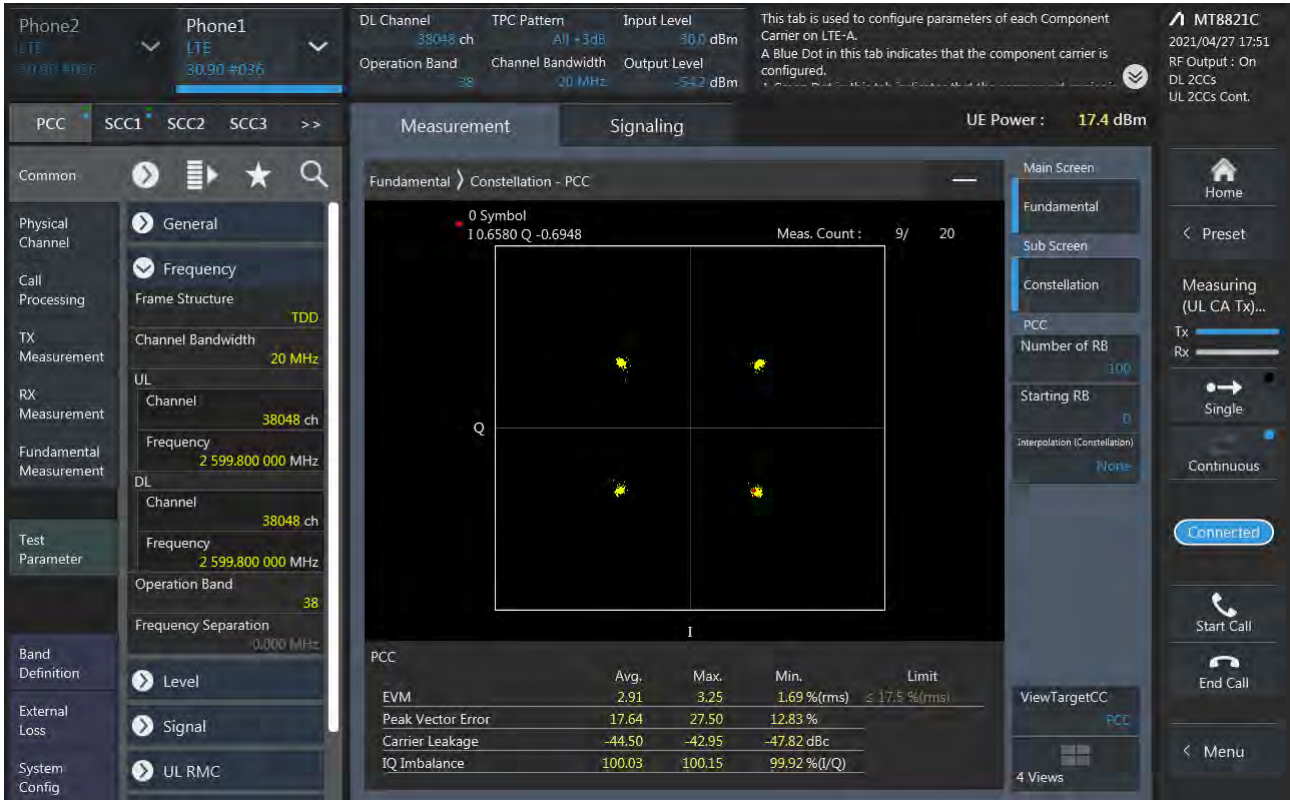
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_38C

3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

3.1.1.1.1 Test Channel = 37850+38048



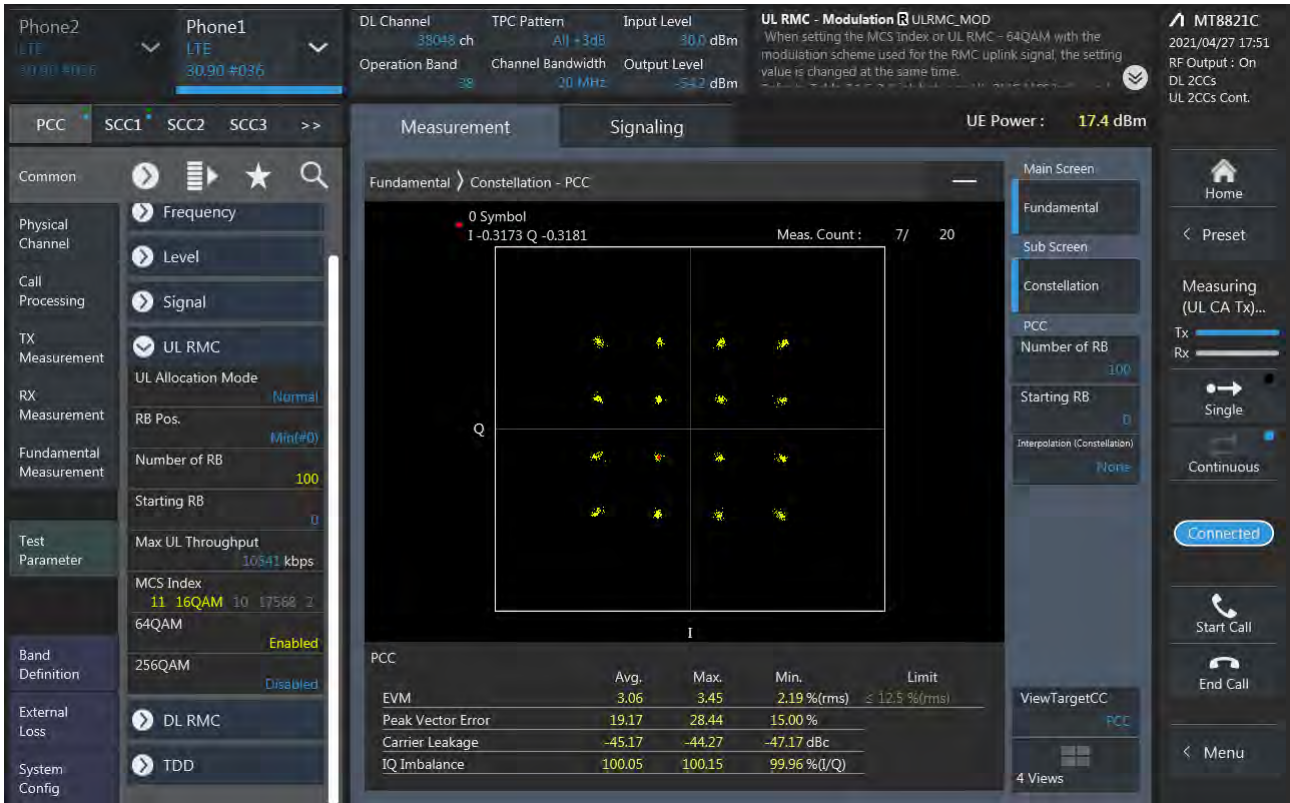
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3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

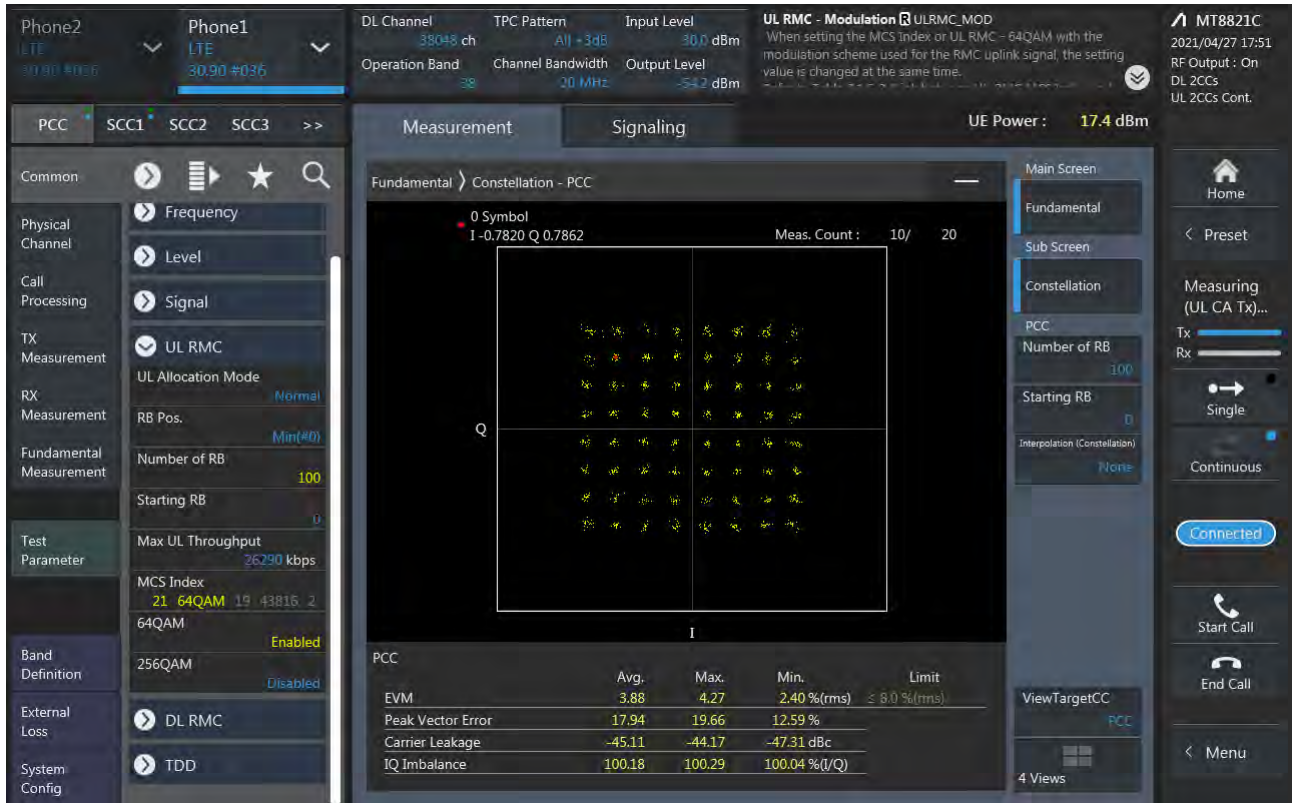
3.1.1.2.1 Test Channel =37850+38048





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

3.1.1.3.1 Test Channel = 37850+38048





4 26dB Bandwidth and Occupied Bandwidth

Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_38C	QPSK	75RB+75RB	37825+37975	75RB#0	75RB#0	28.22	29.18	PASS
CA_38C	16QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.21	29.21	PASS
CA_38C	64QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.19	29.21	PASS
CA_38C	QPSK	75RB+75RB	37925+38075	75RB#0	75RB#0	28.21	29.17	PASS
CA_38C	16QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.19	29.20	PASS
CA_38C	64QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.19	29.24	PASS
CA_38C	QPSK	75RB+75RB	38025+38175	75RB#0	75RB#0	28.19	29.32	PASS
CA_38C	16QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.19	29.23	PASS
CA_38C	64QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.19	29.26	PASS
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	37.39	38.91	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.41	38.89	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.41	38.91	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	37.39	38.89	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.41	38.89	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.41	38.87	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	37.41	38.95	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.41	38.87	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.39	38.93	PASS

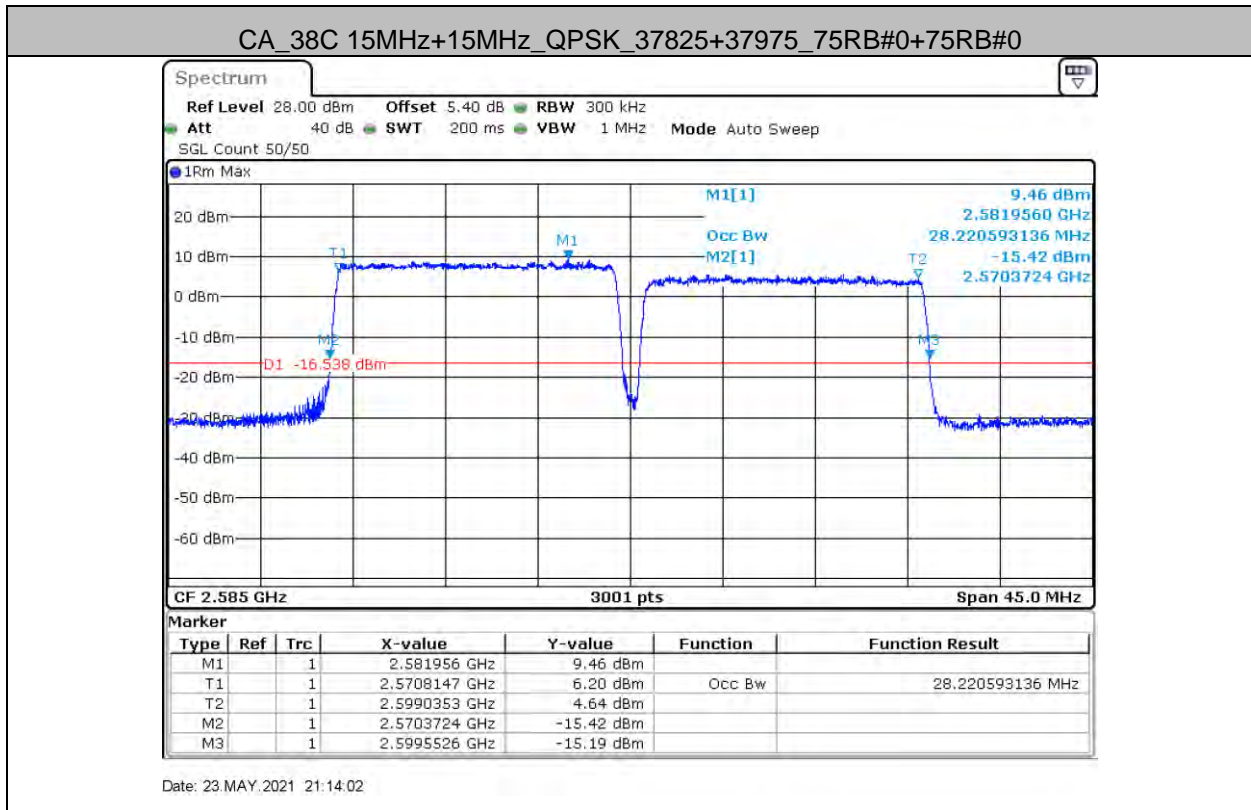


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4.1 For LTE

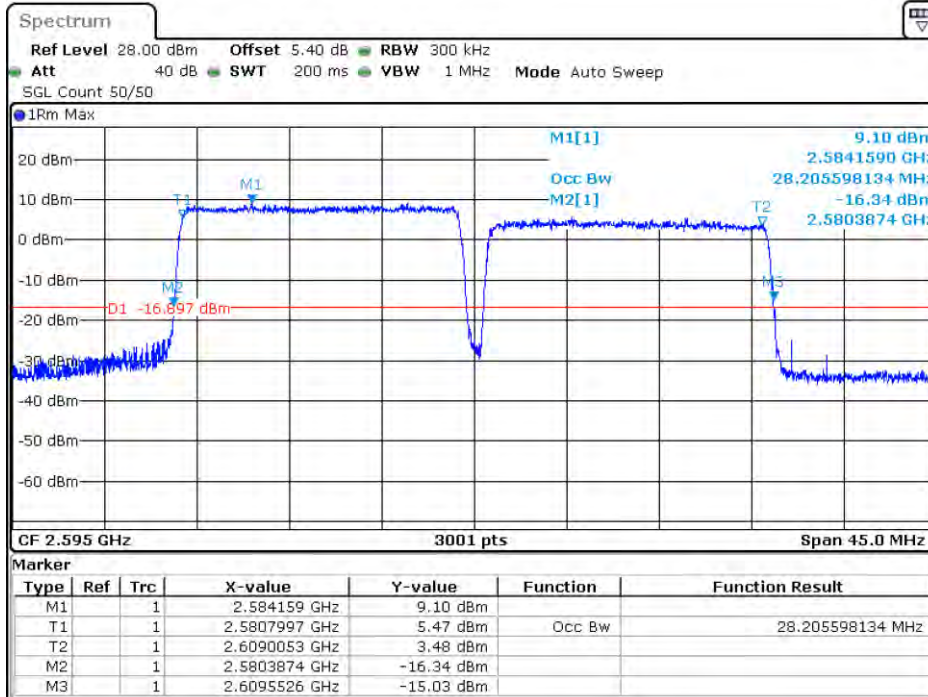
4.1.1 Test Band = LTE Band CA_38C



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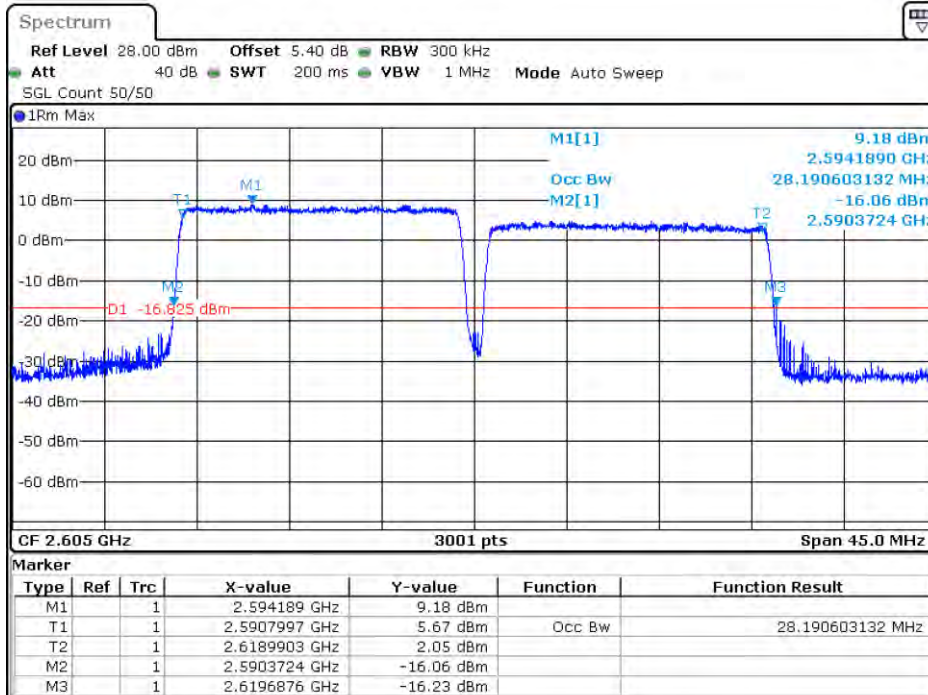
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Date: 23.MAY.2021 21:14:55

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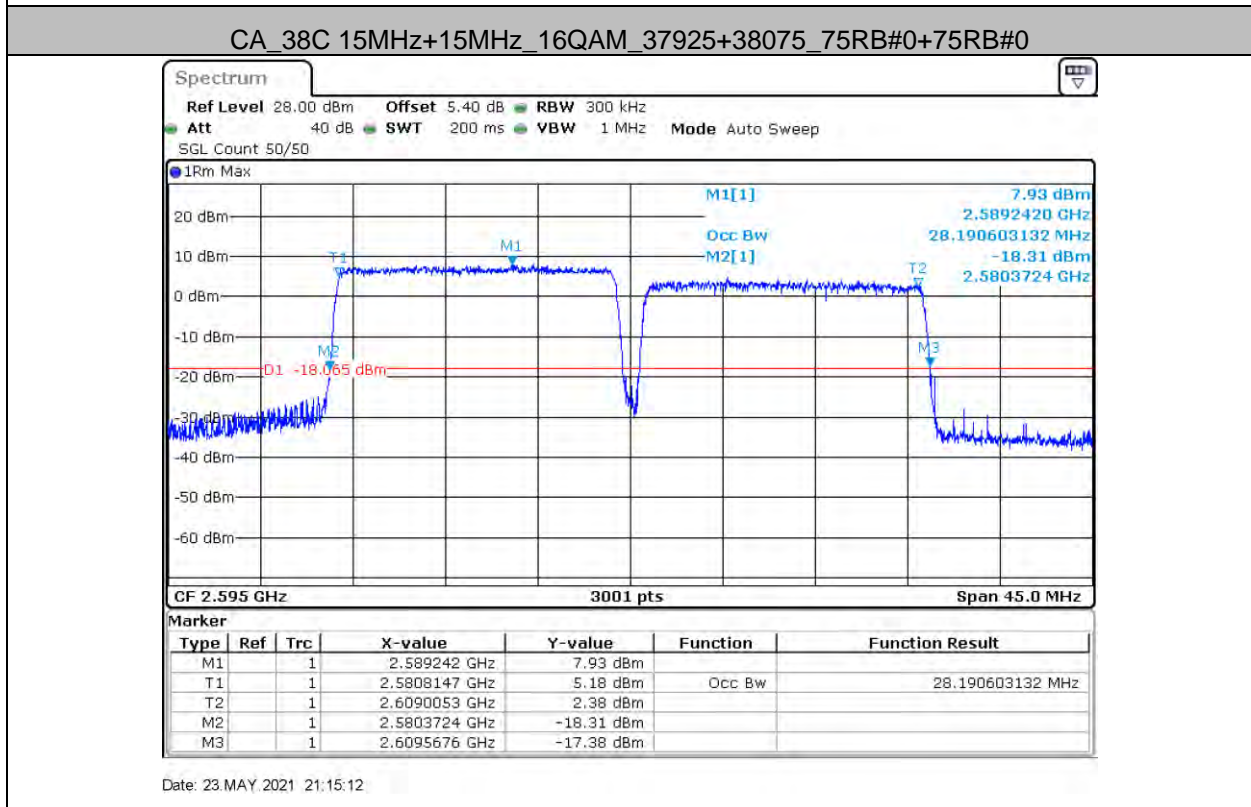
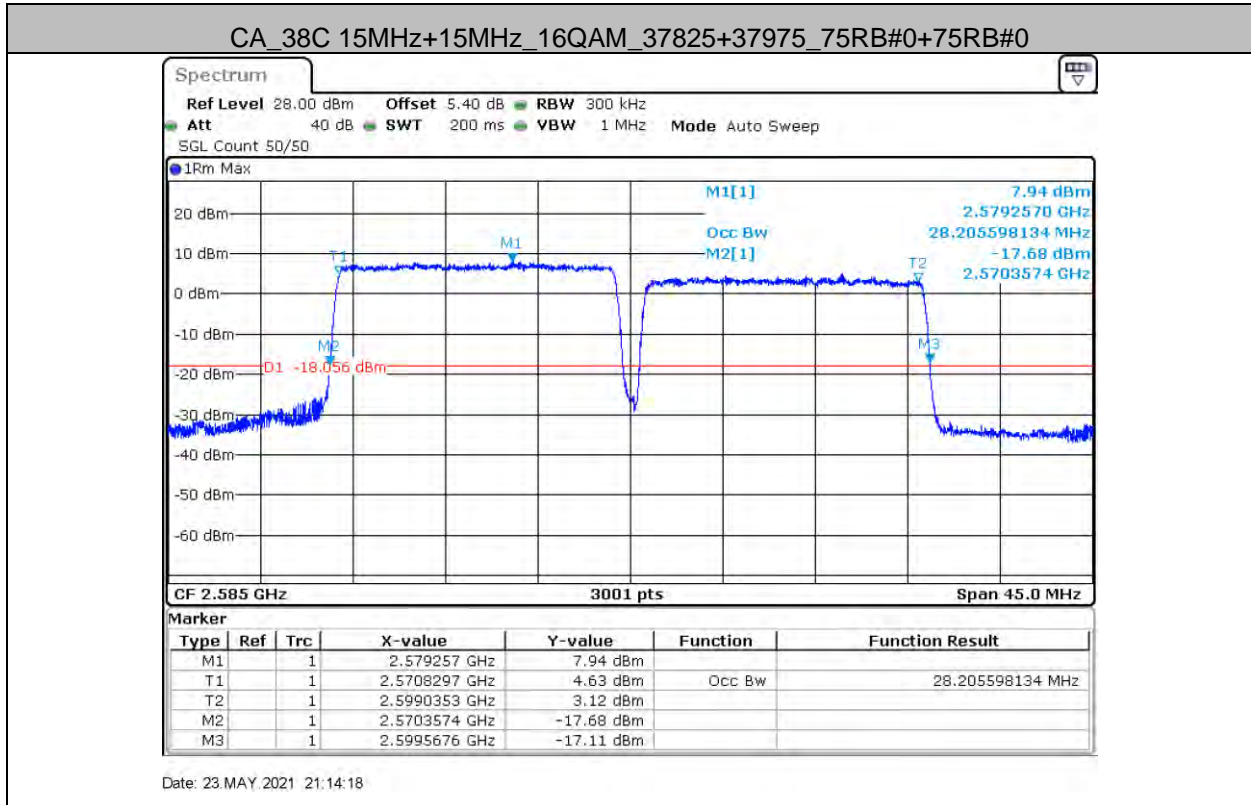


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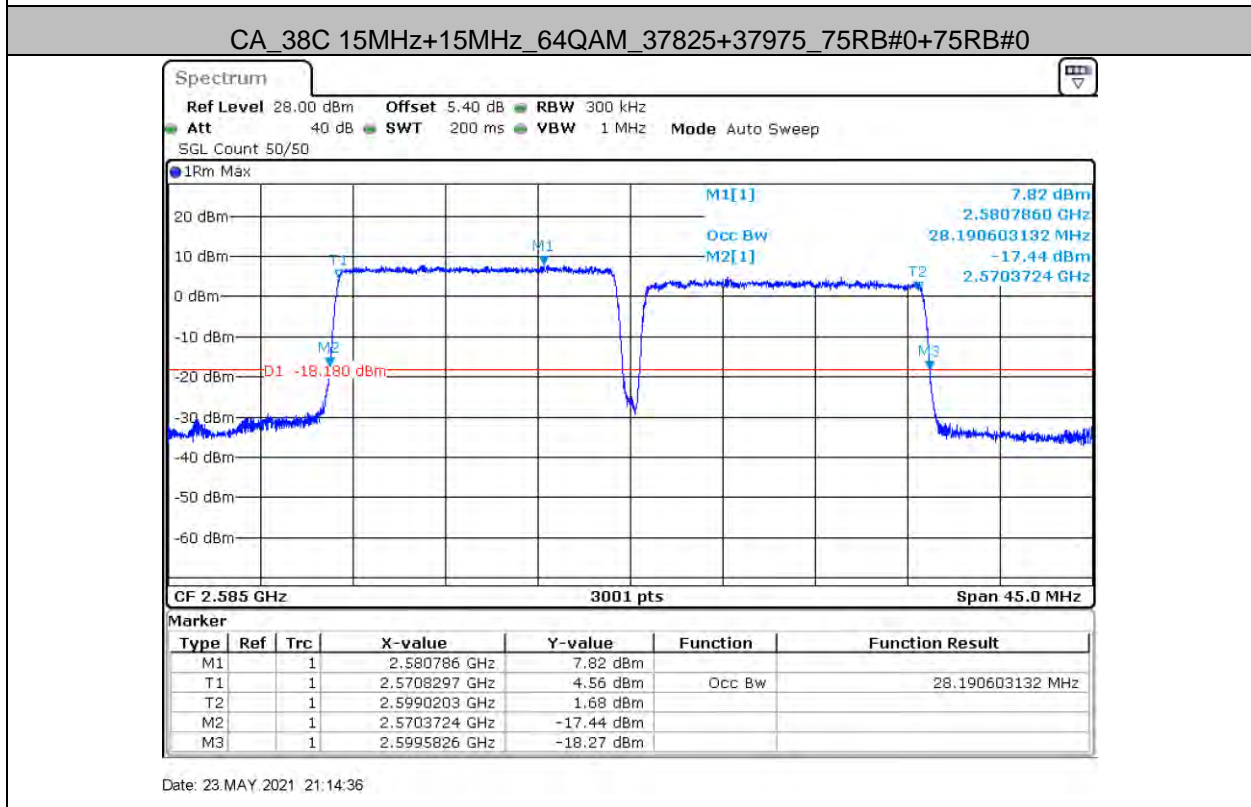
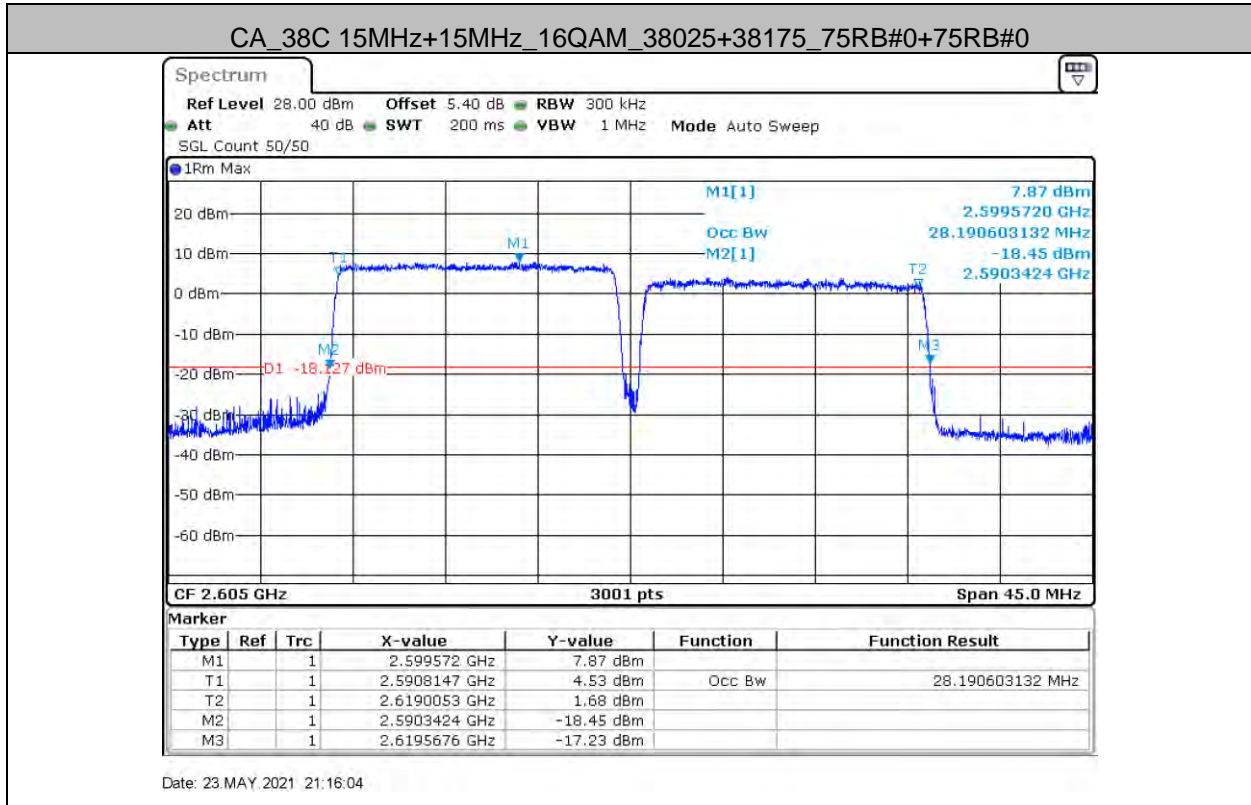
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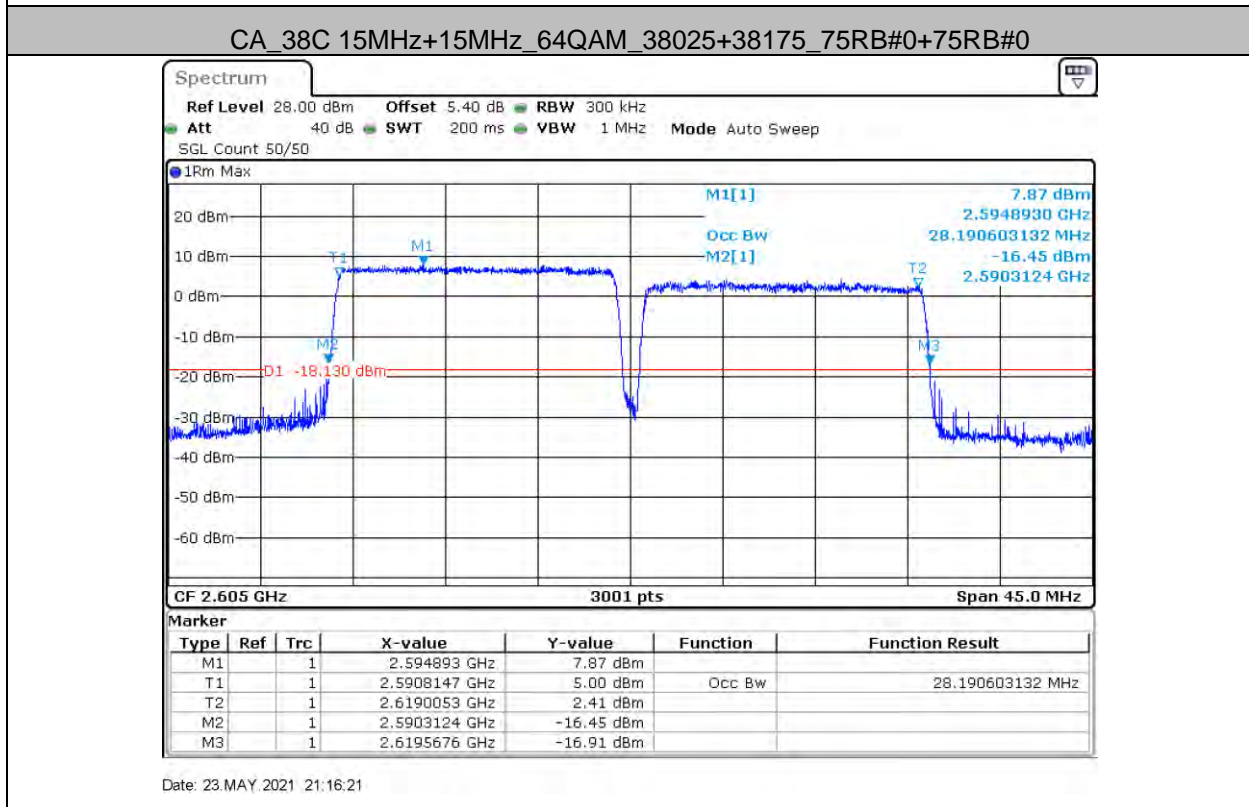
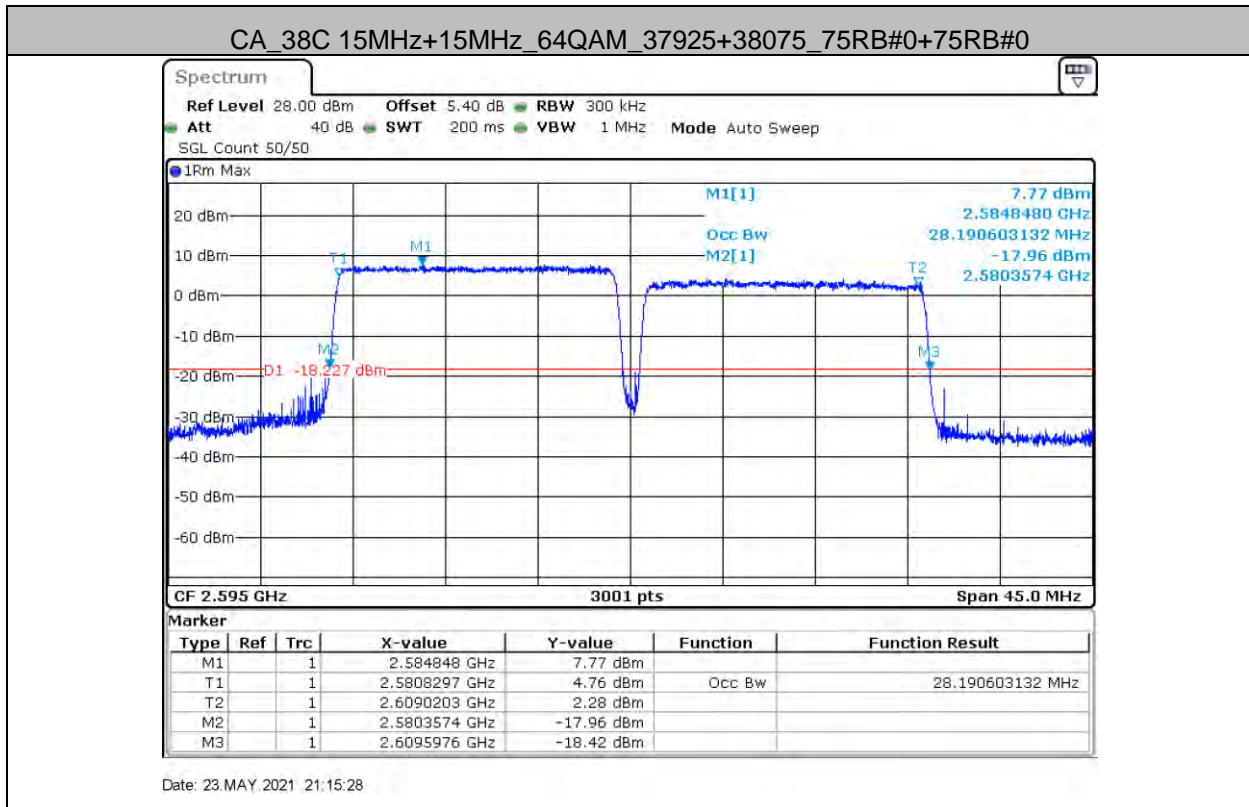
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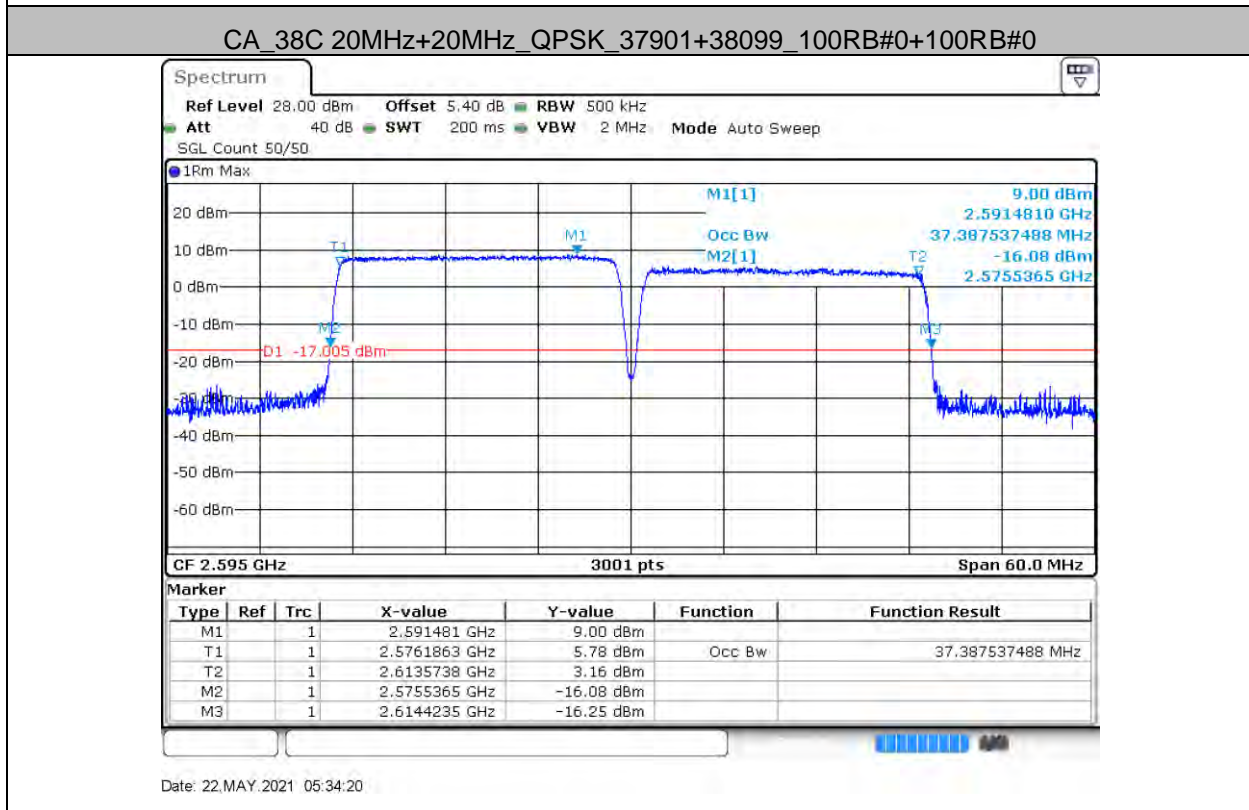
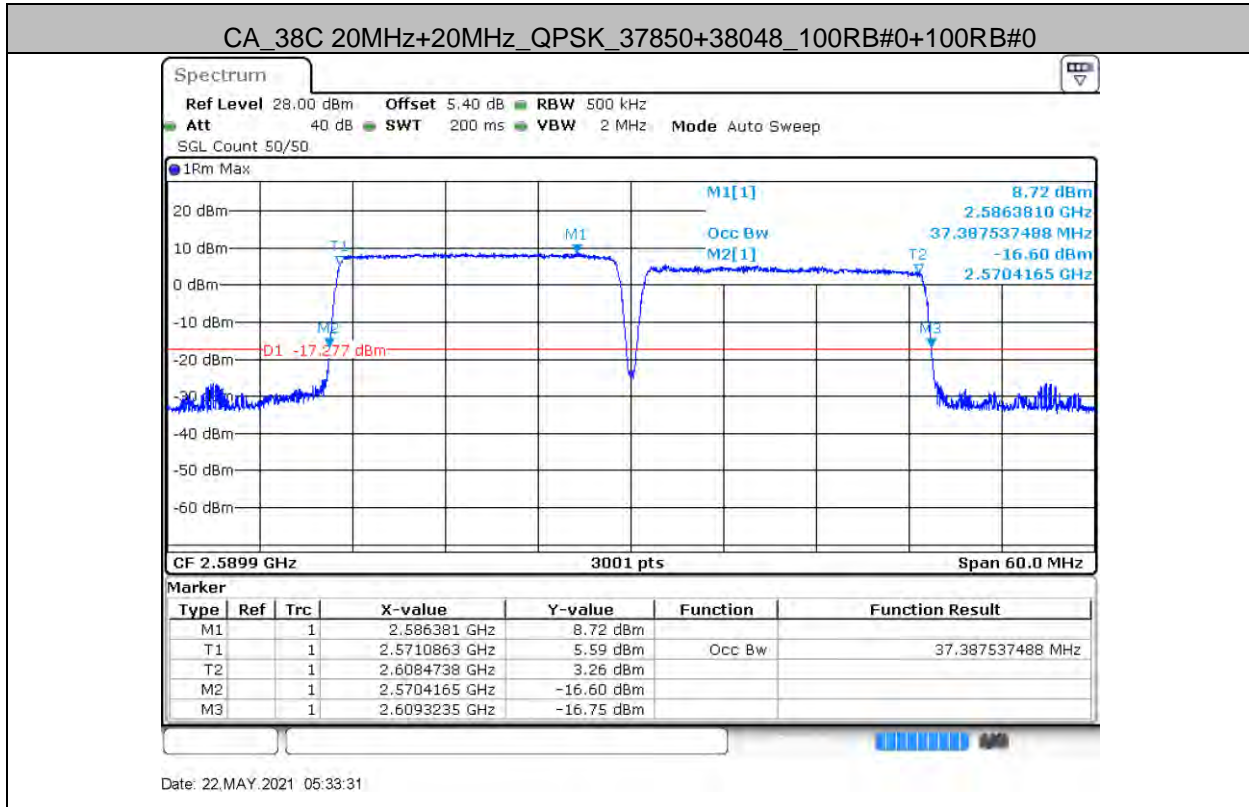
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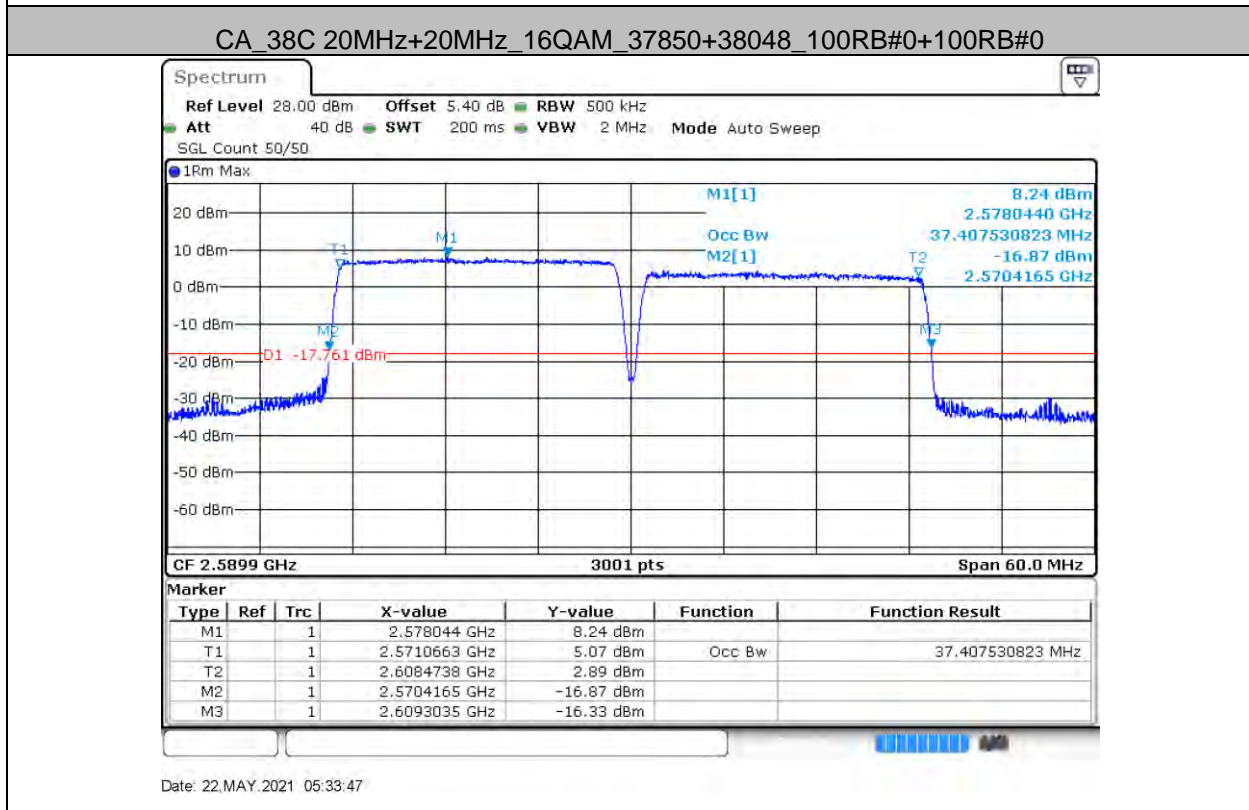
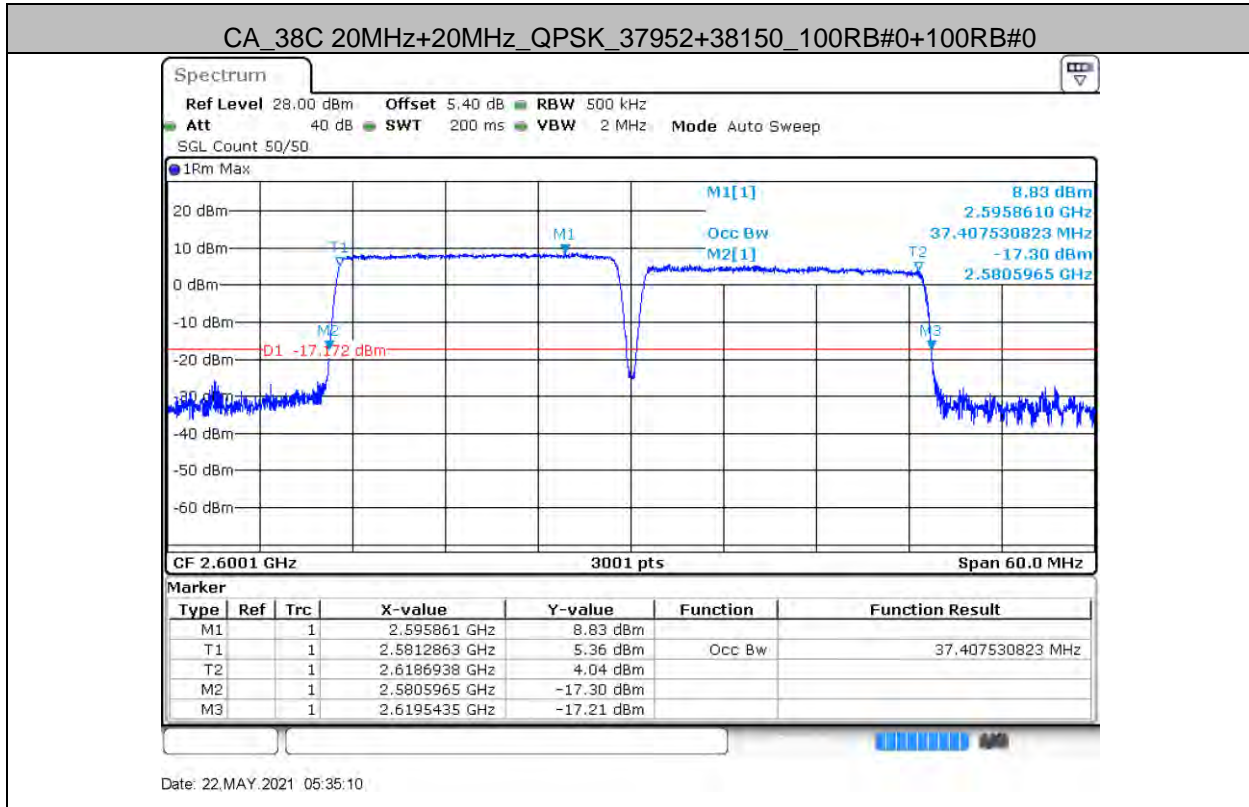
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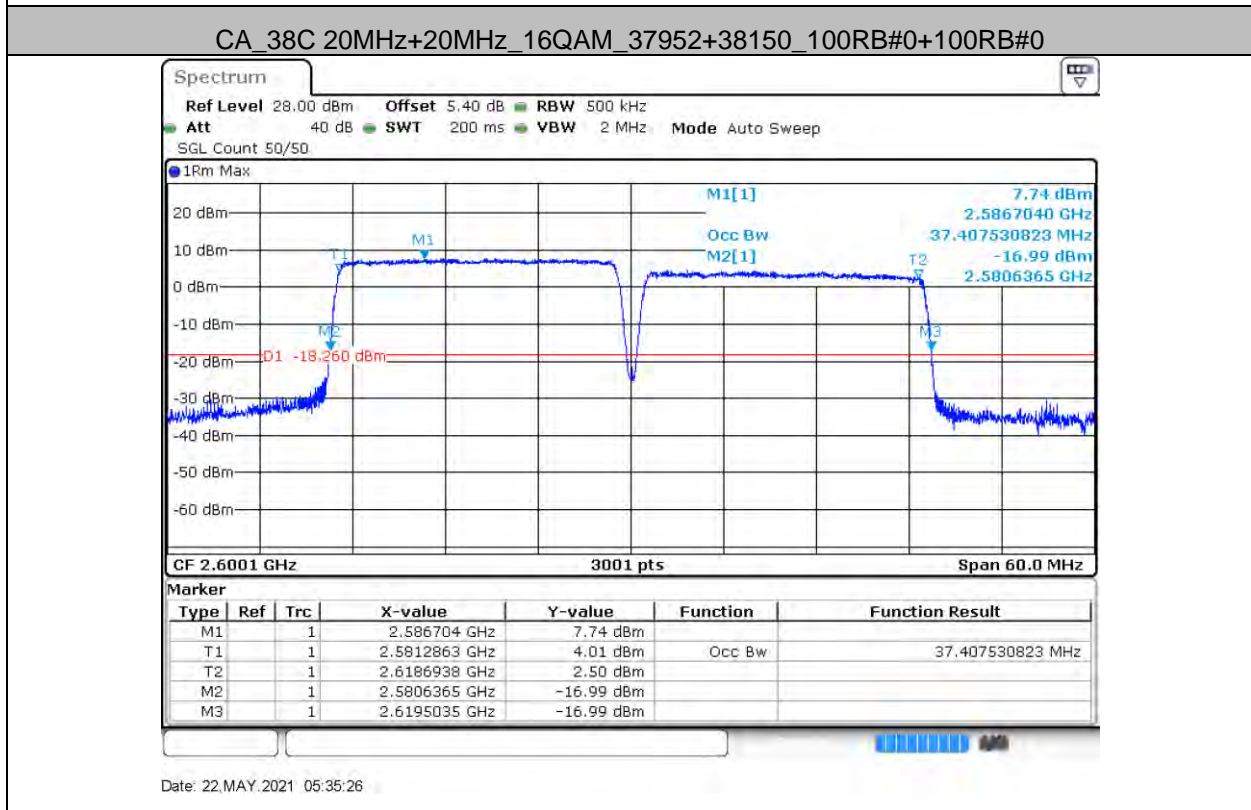
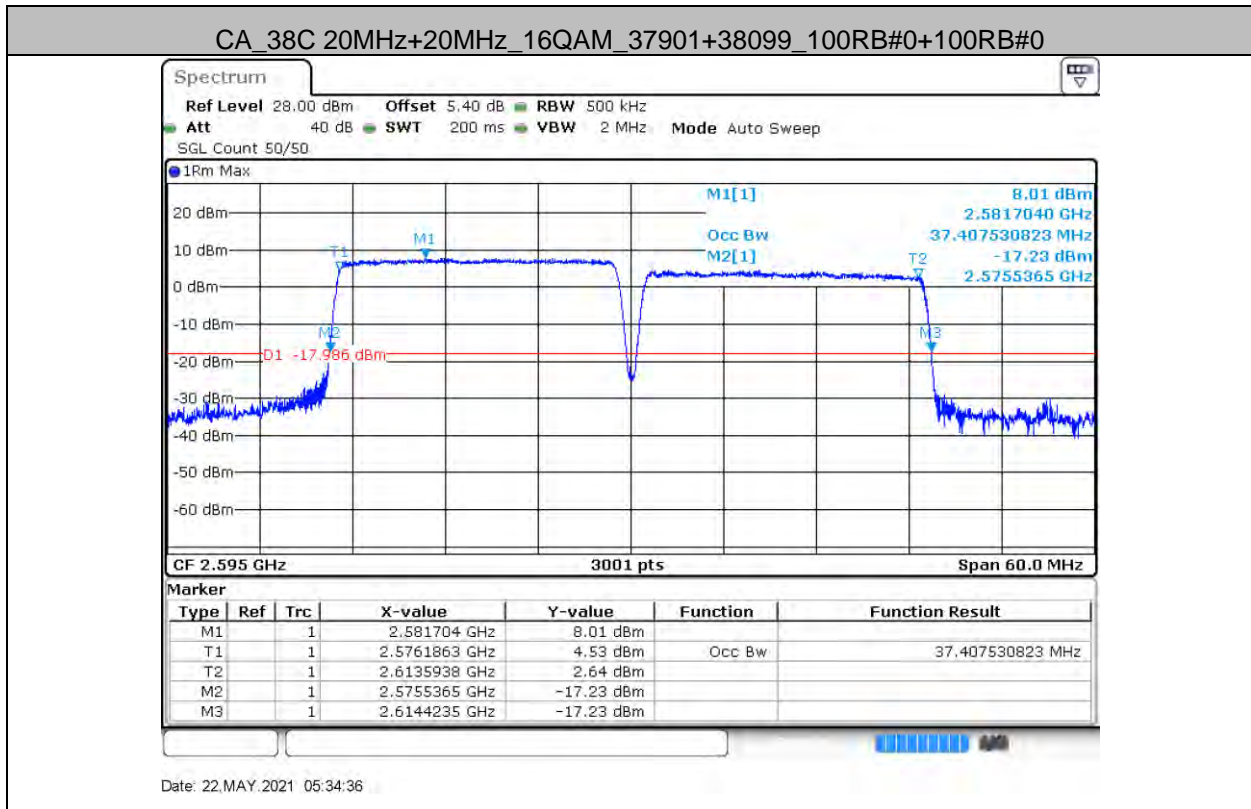


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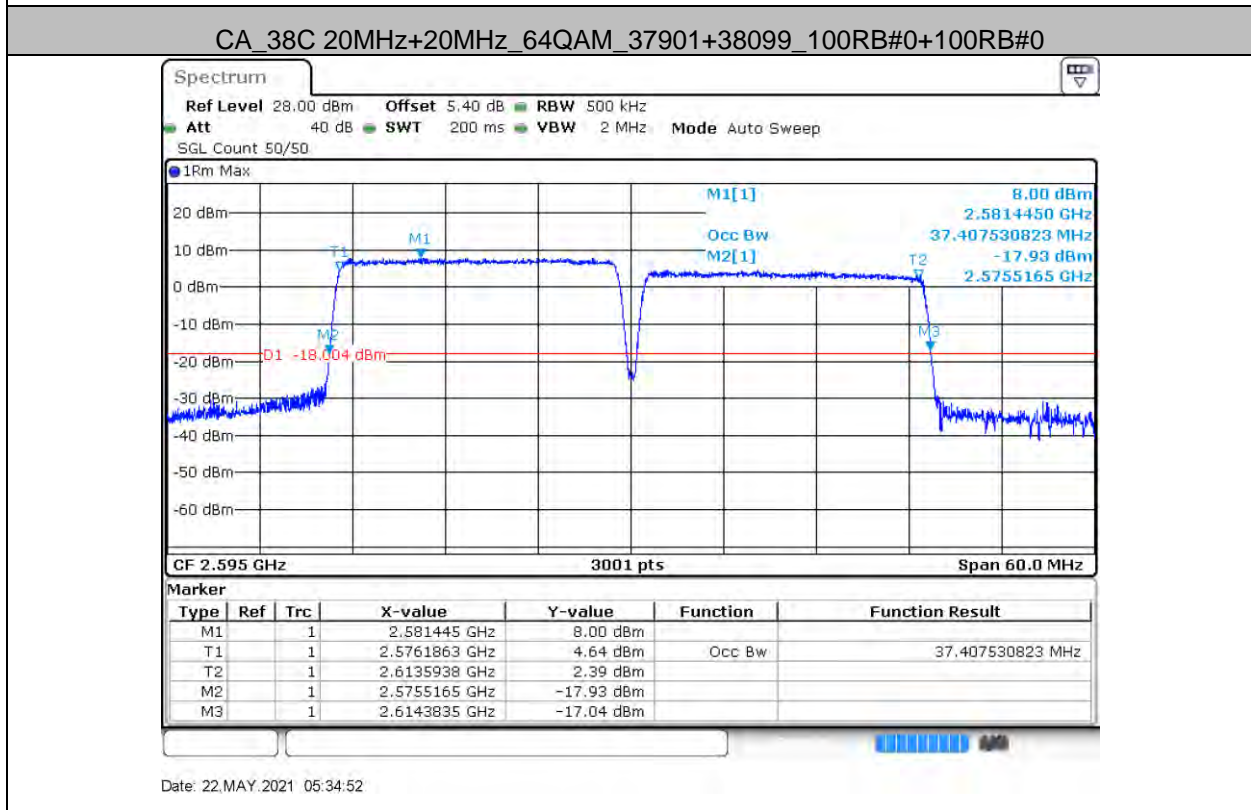
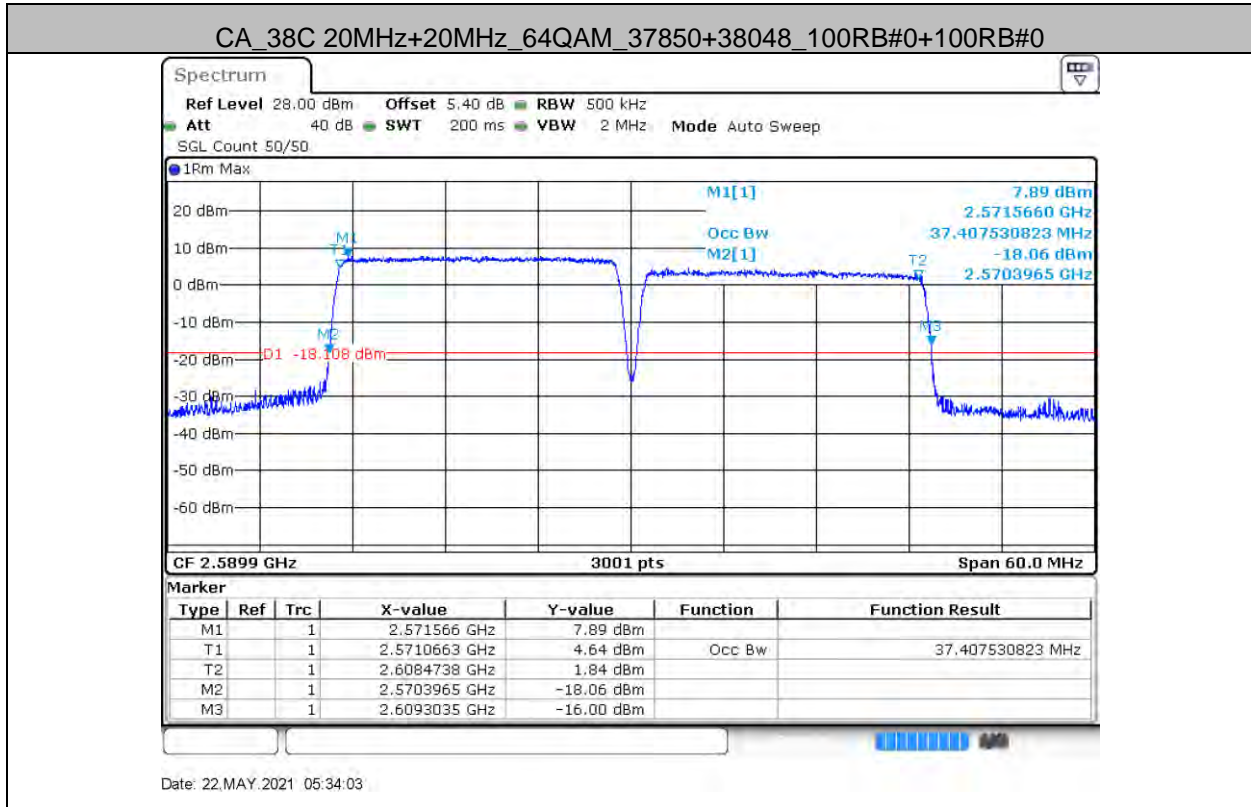


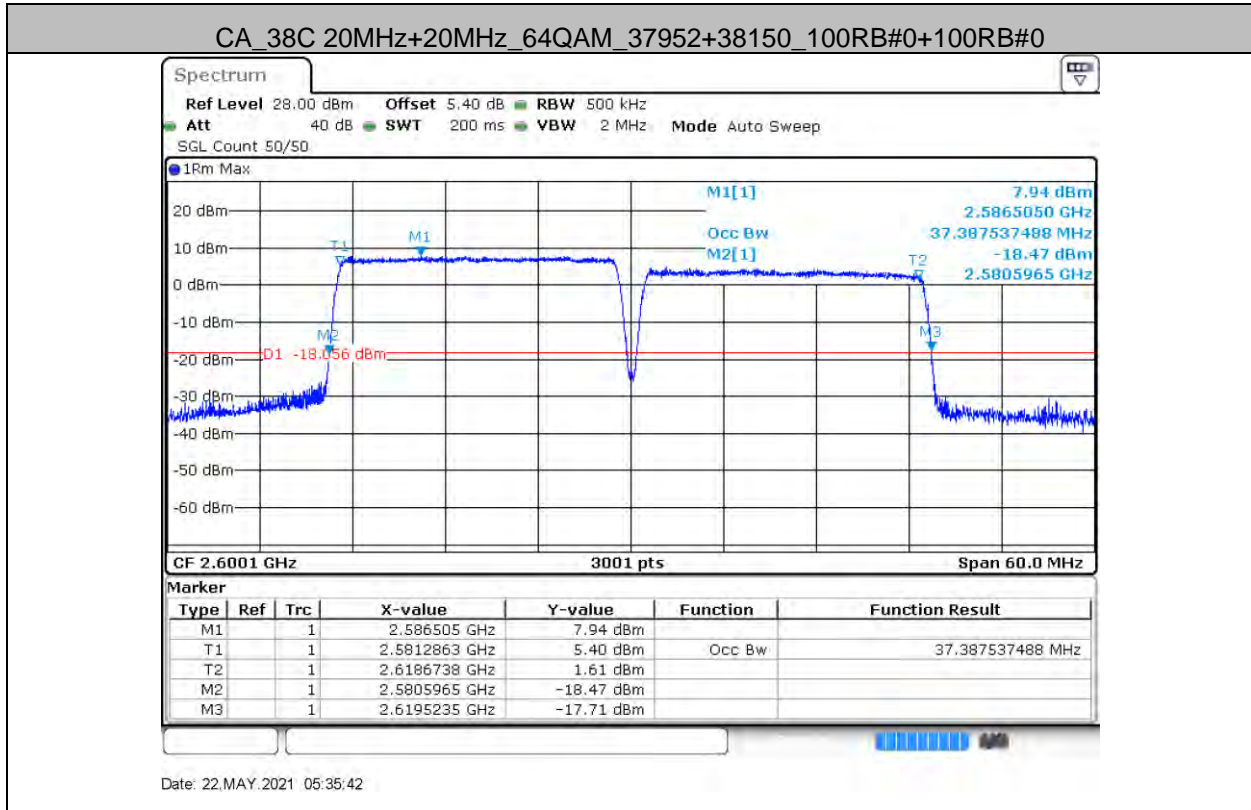


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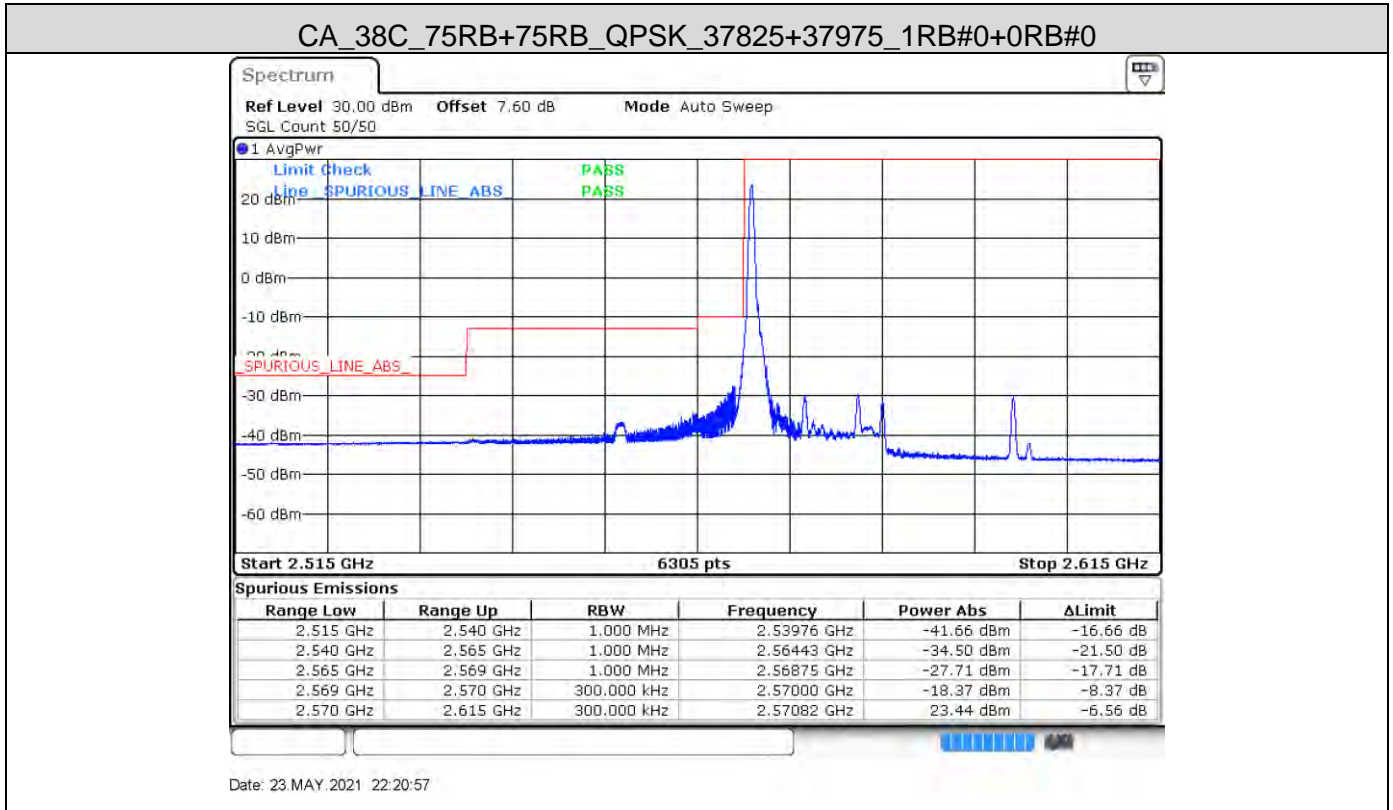




5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE Band CA_38C

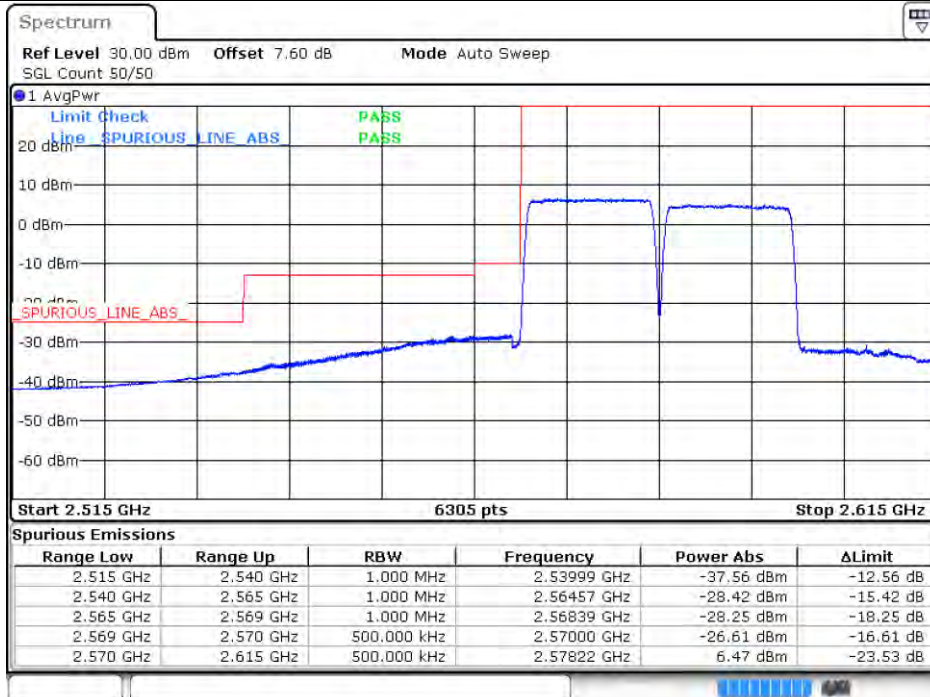


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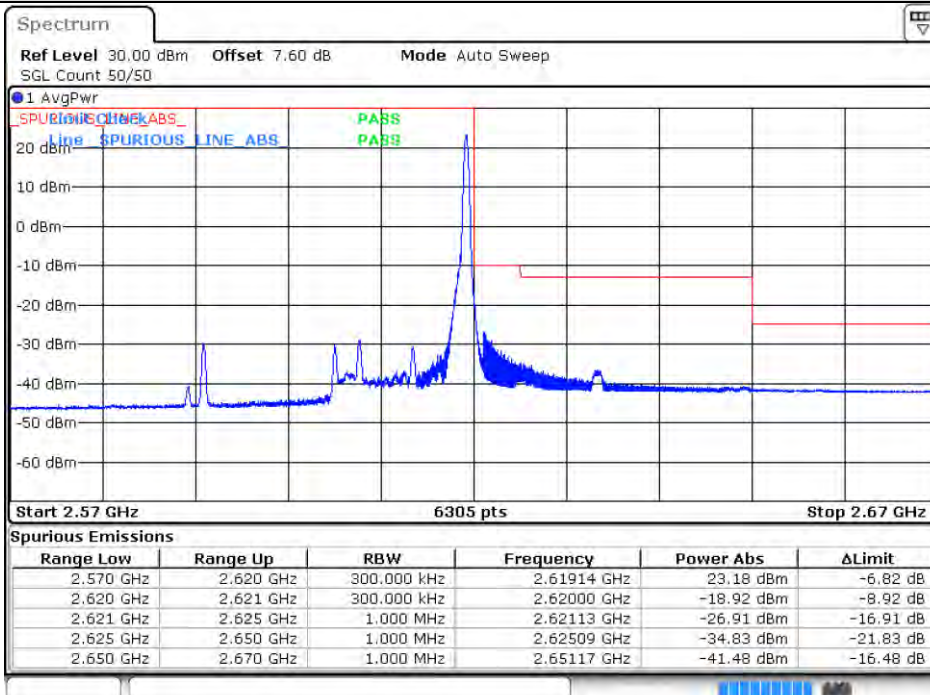


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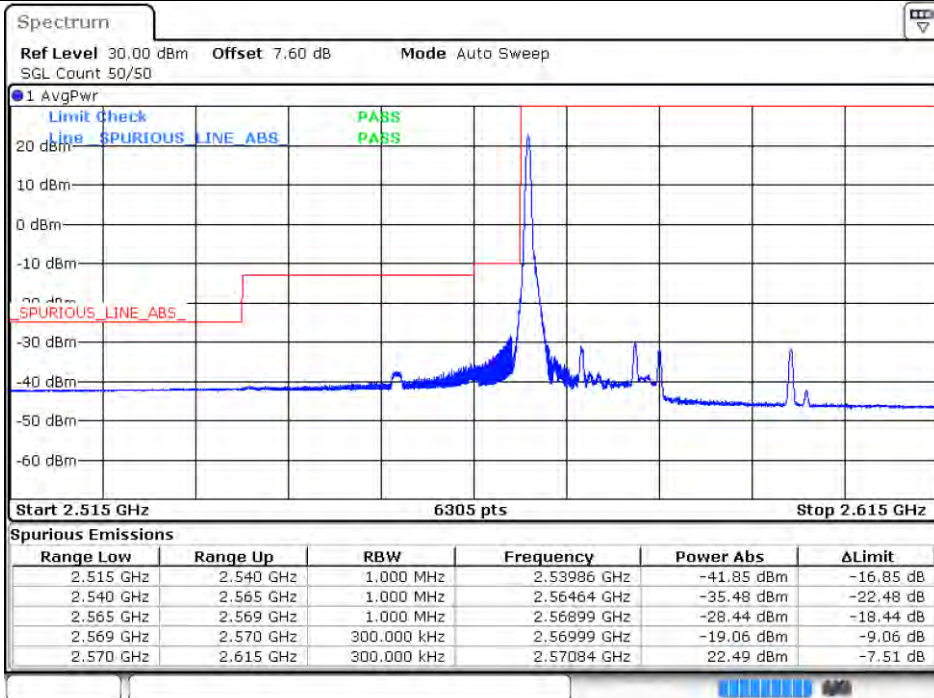


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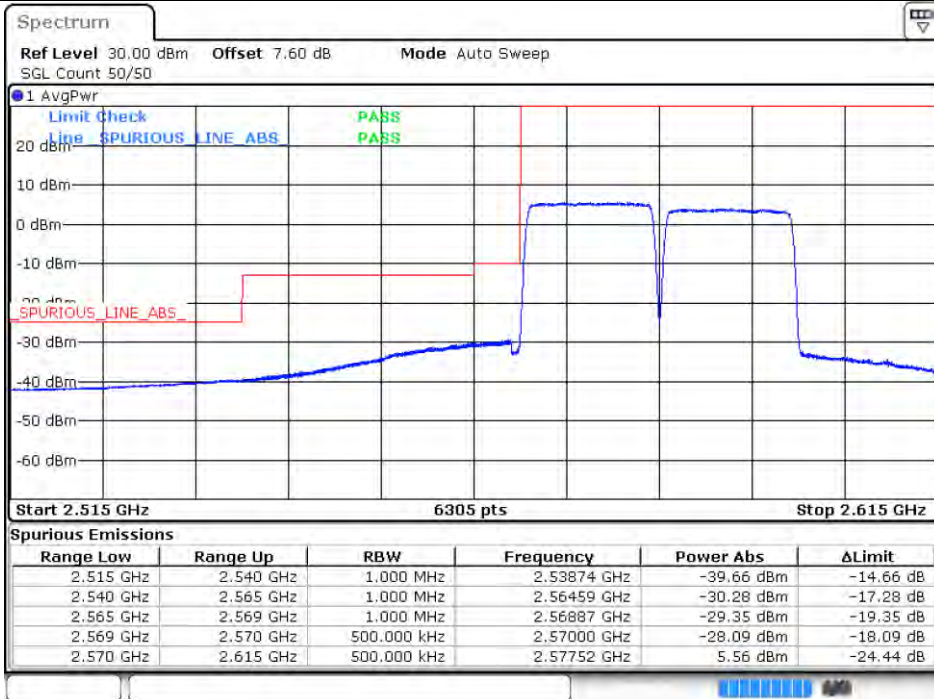
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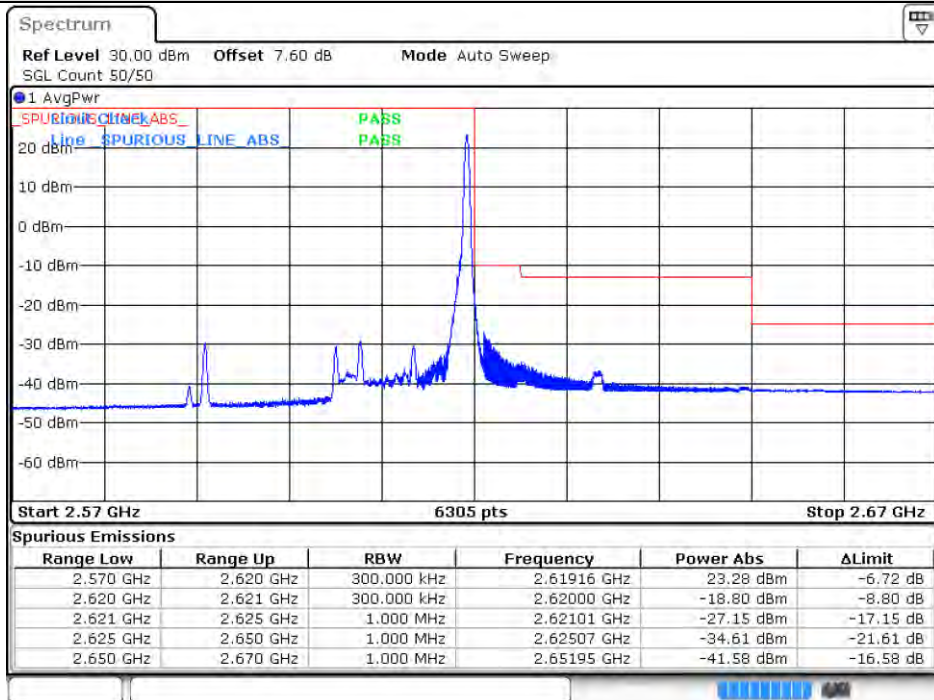


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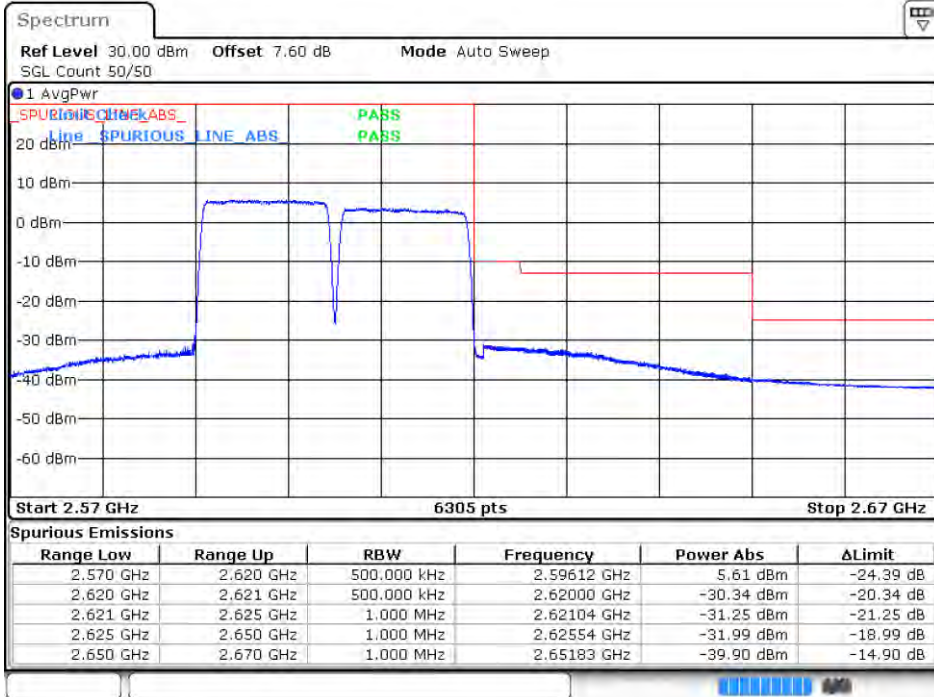
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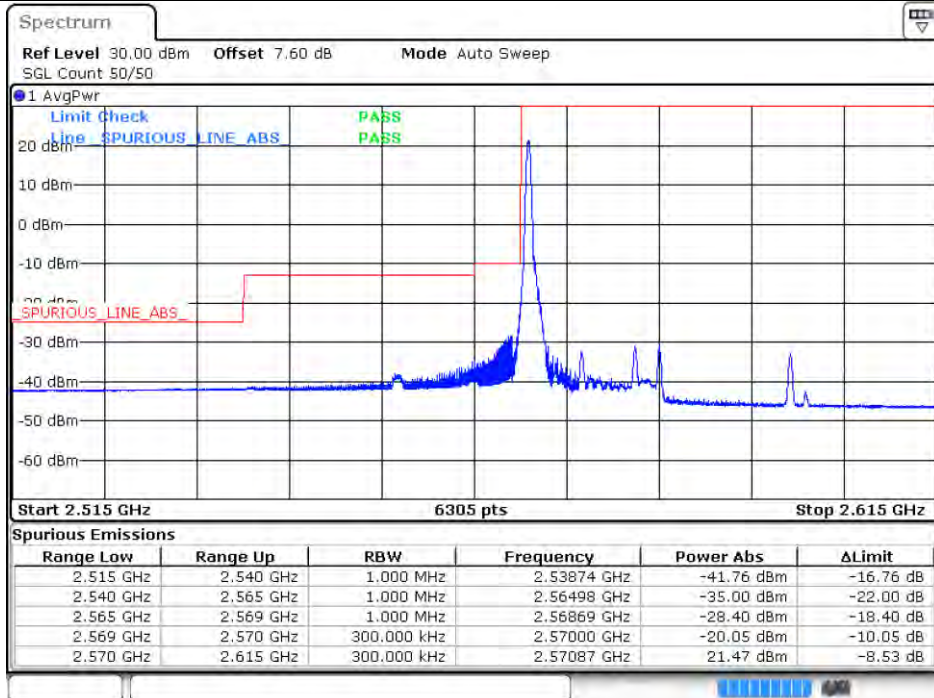


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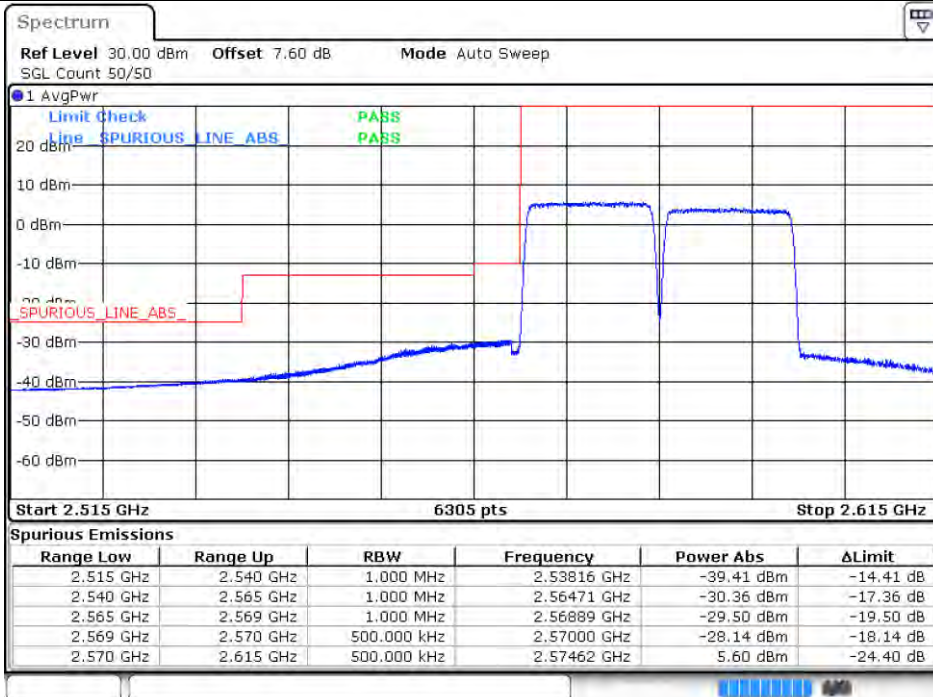
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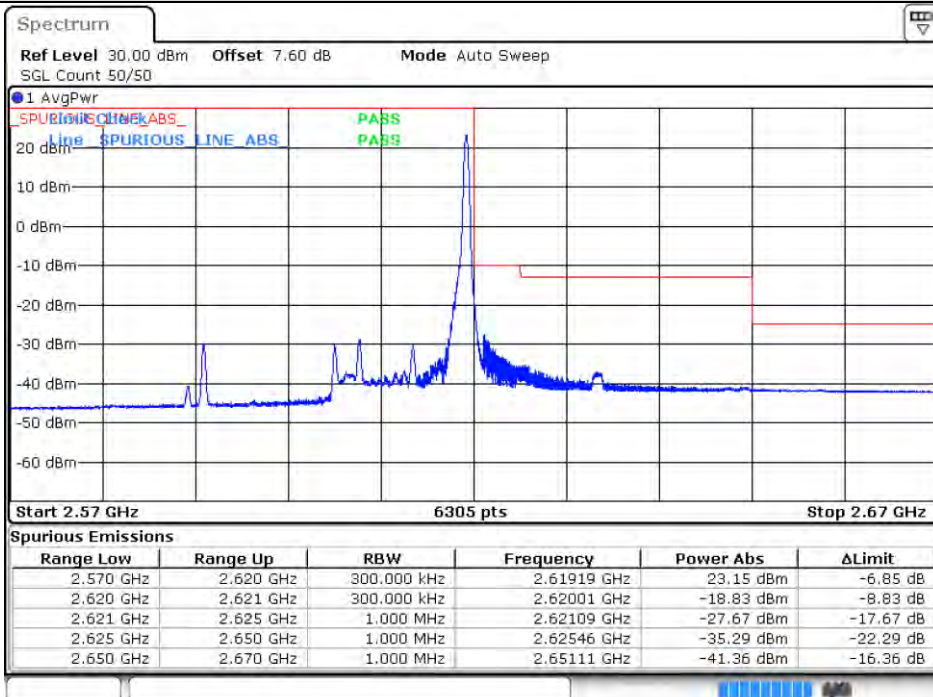


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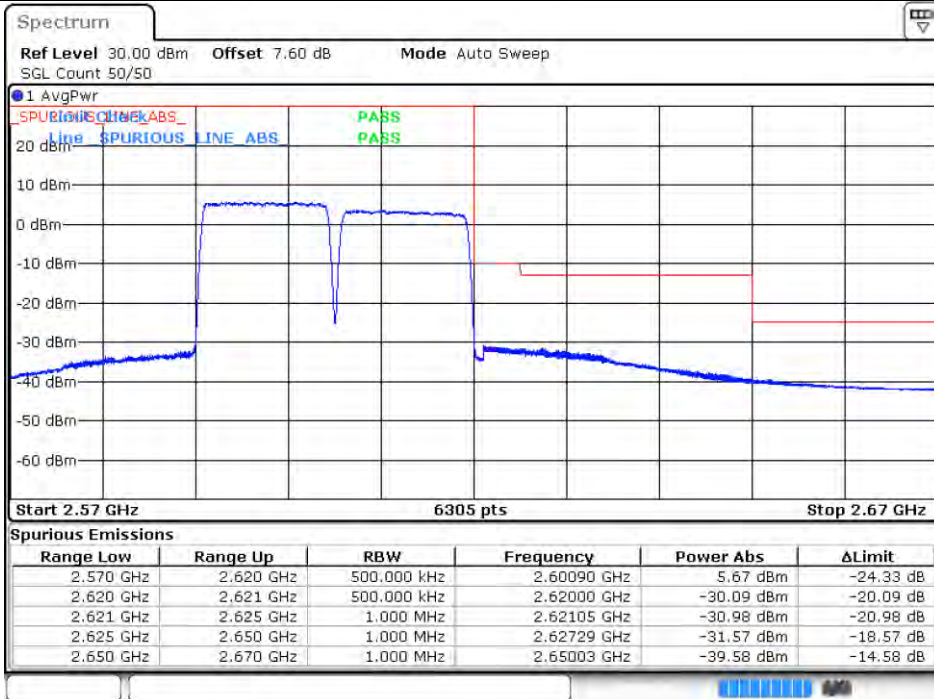
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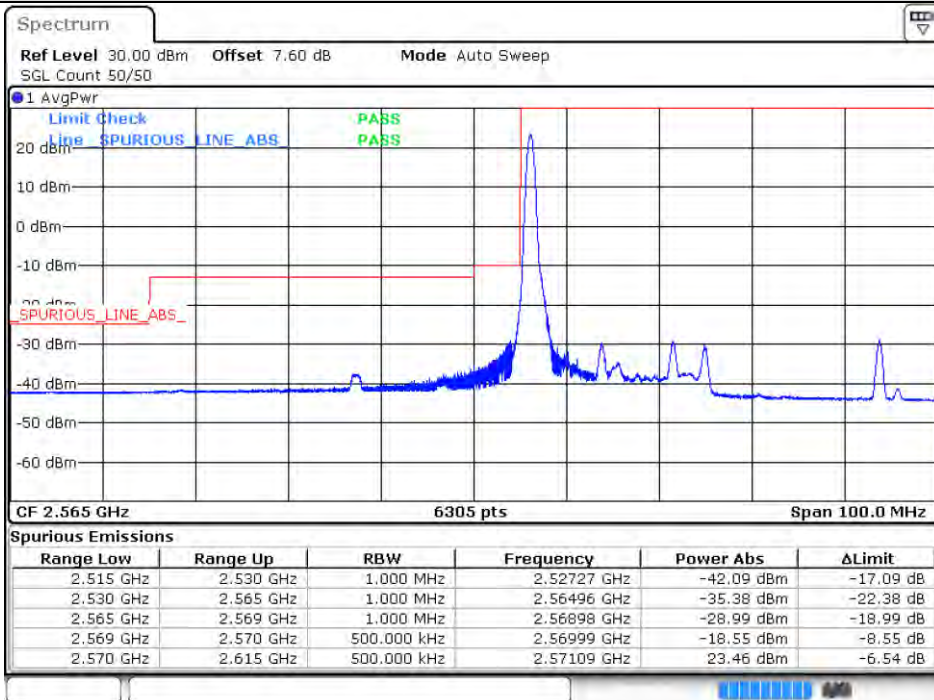


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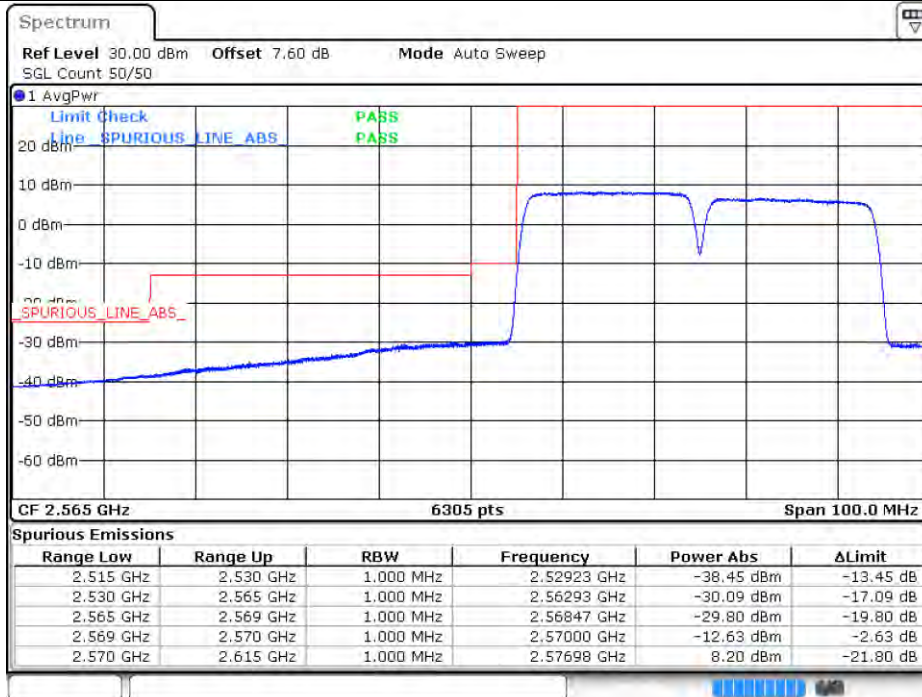
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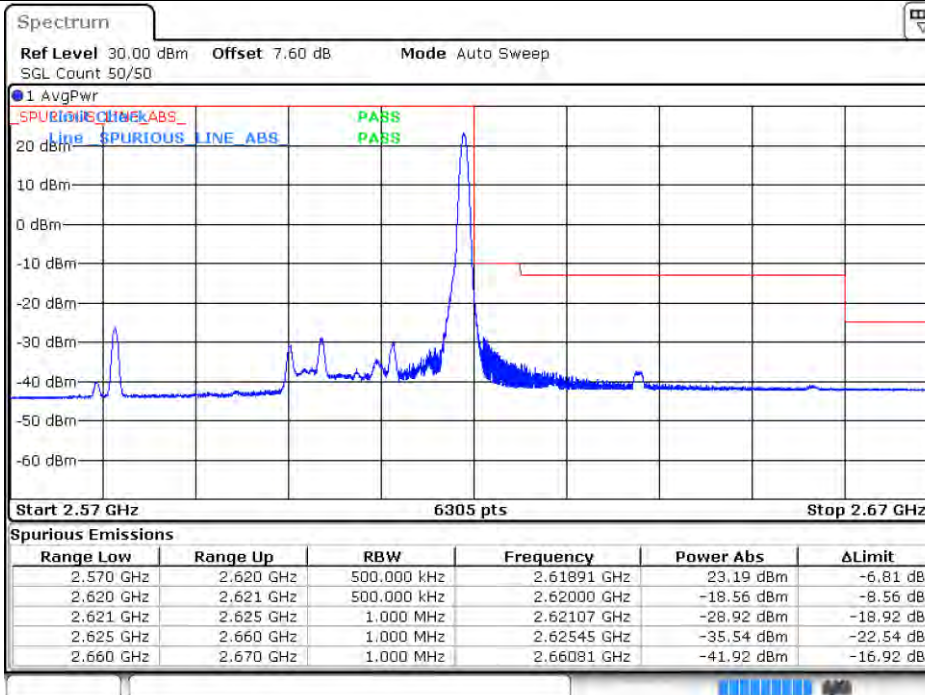


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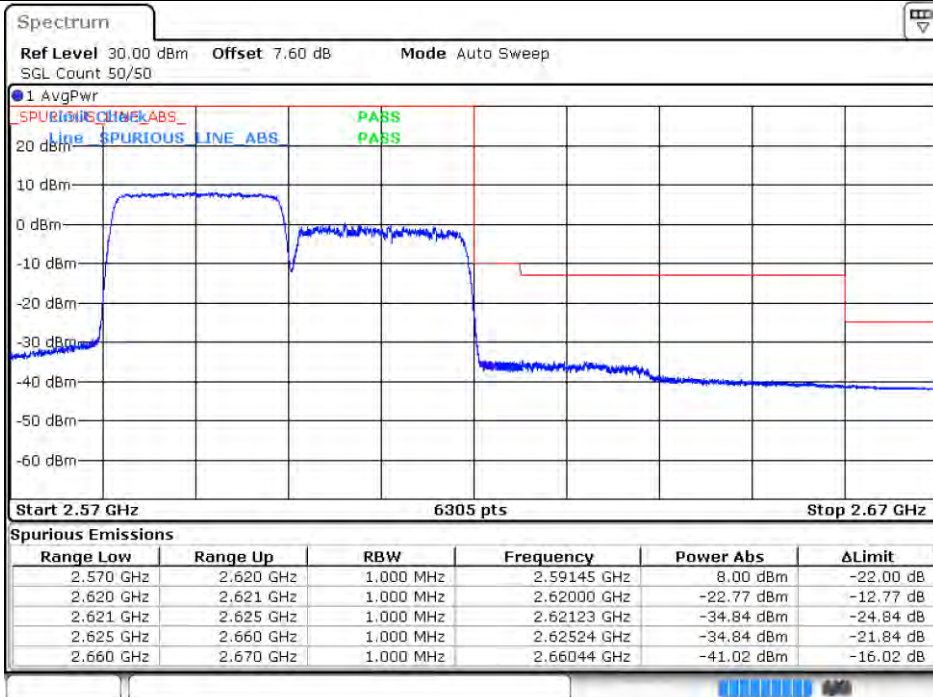
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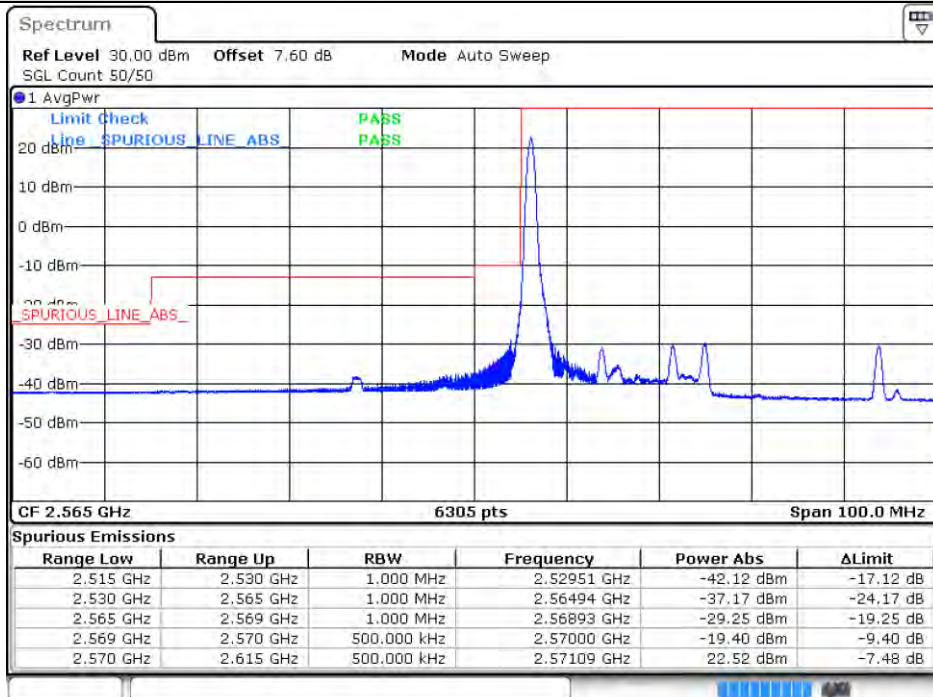


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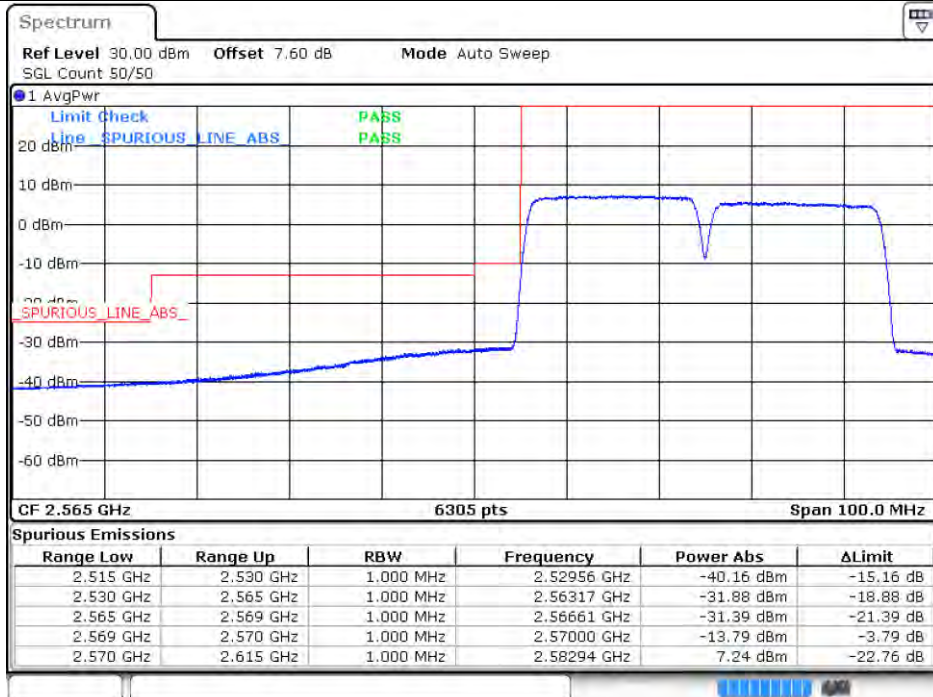
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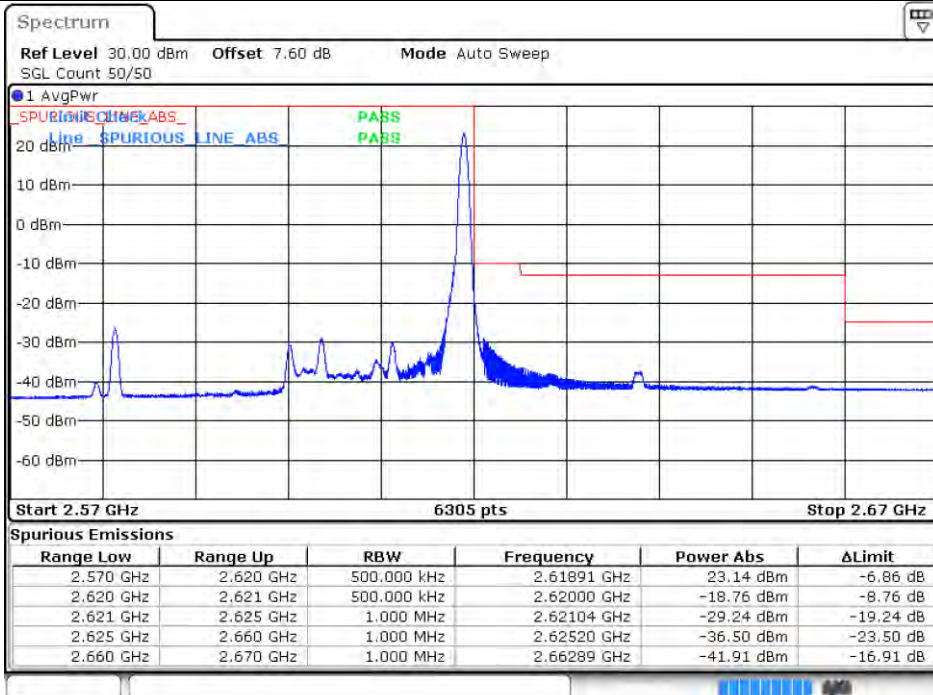


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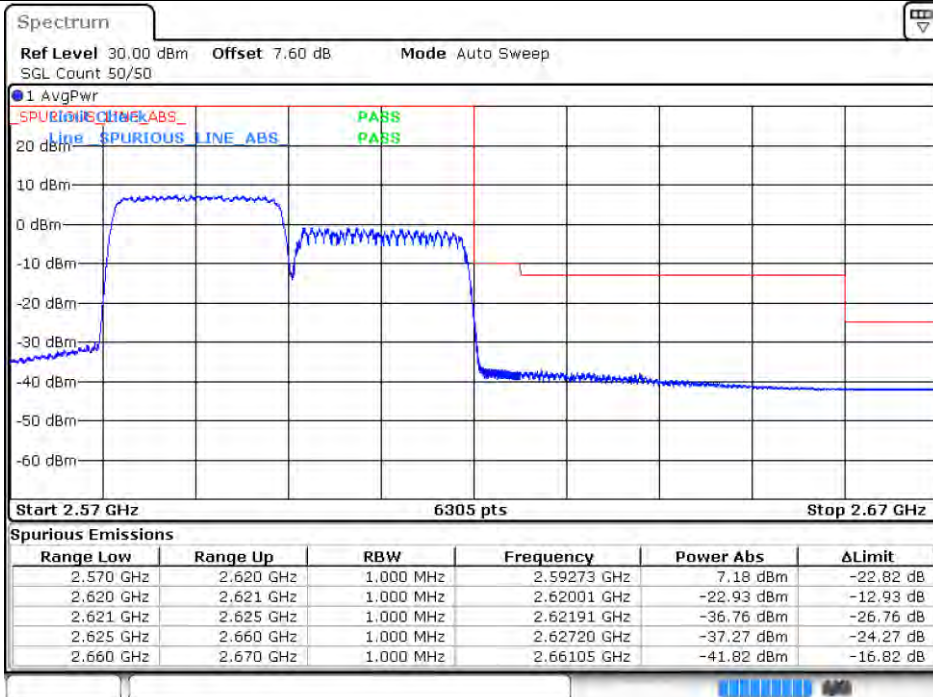
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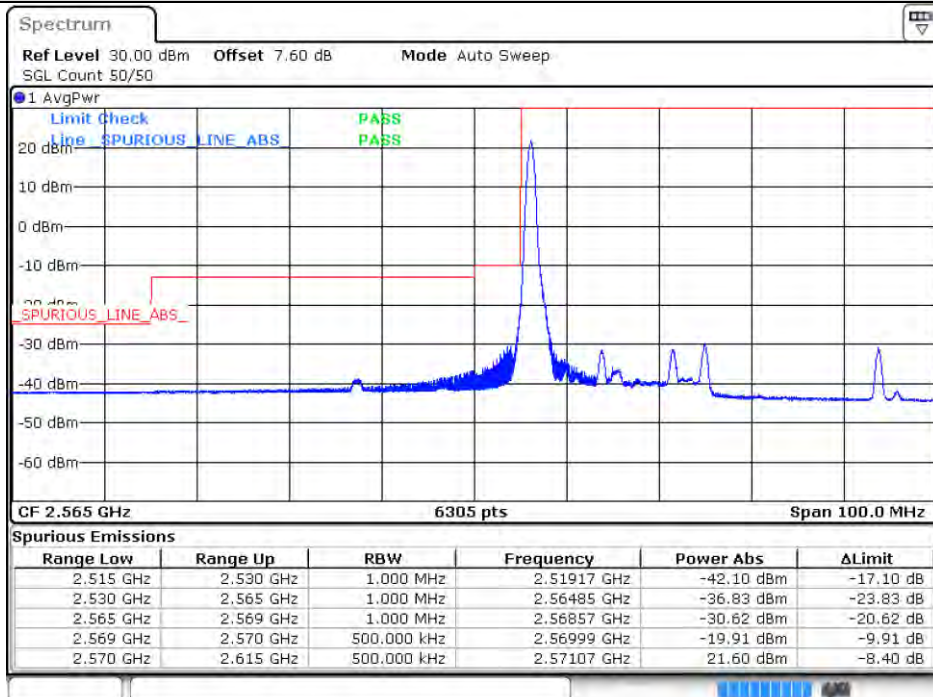


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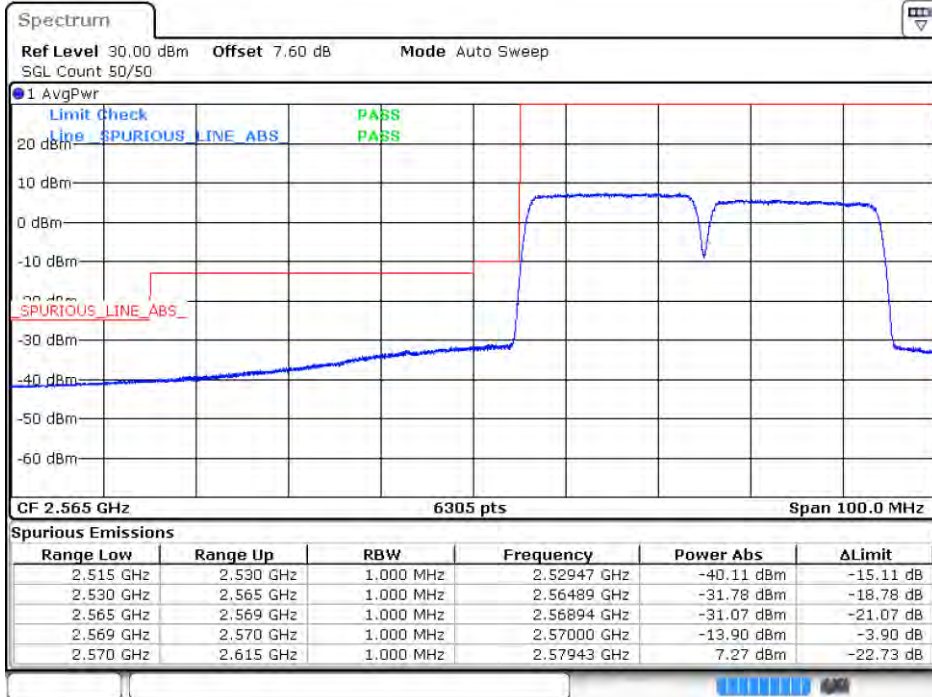


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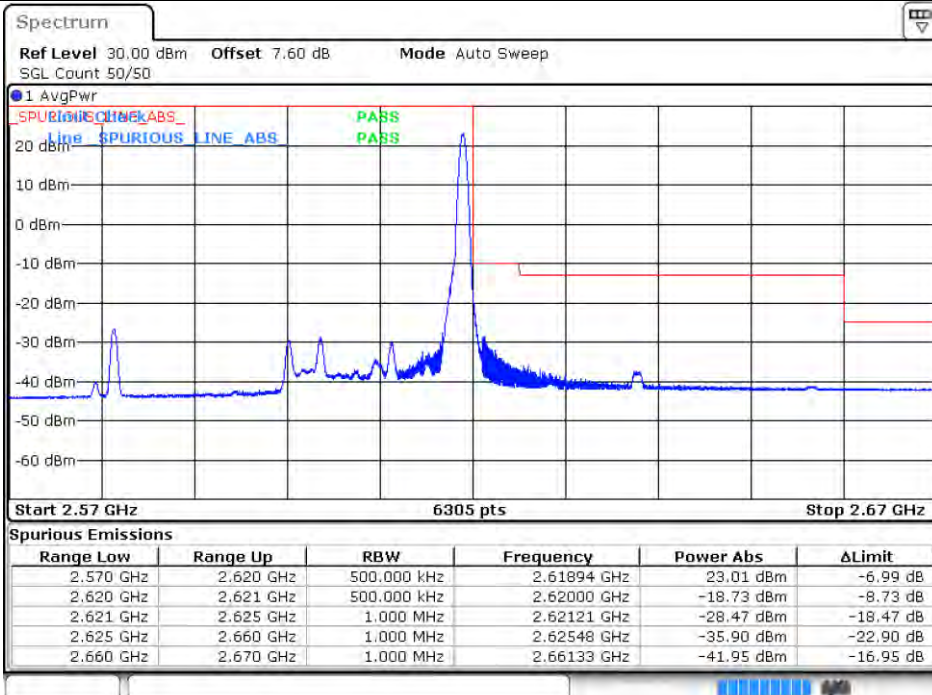


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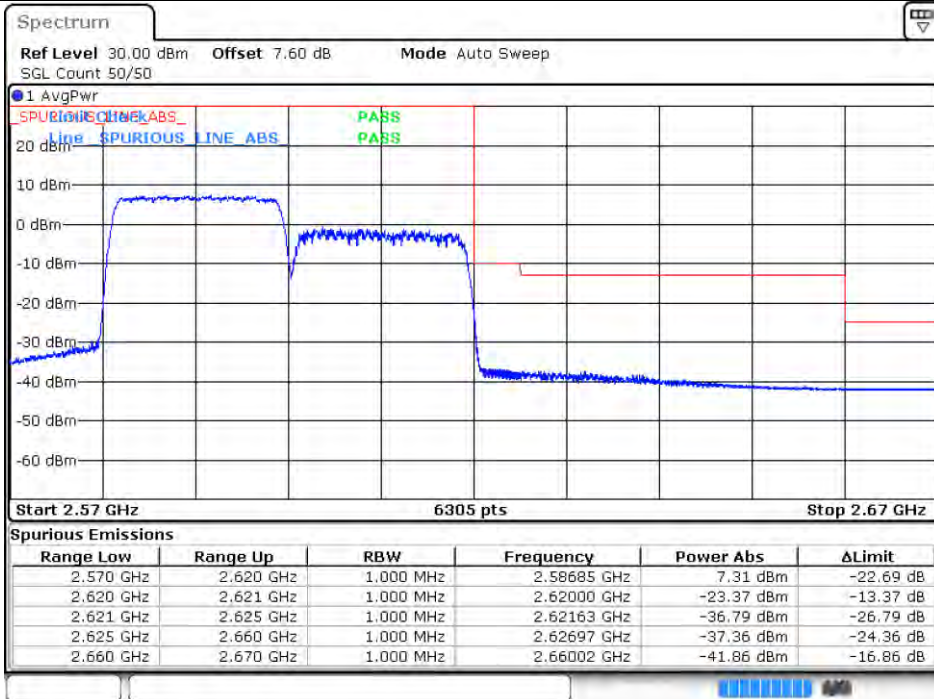


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Date: 4 JUN.2021 02:51:55



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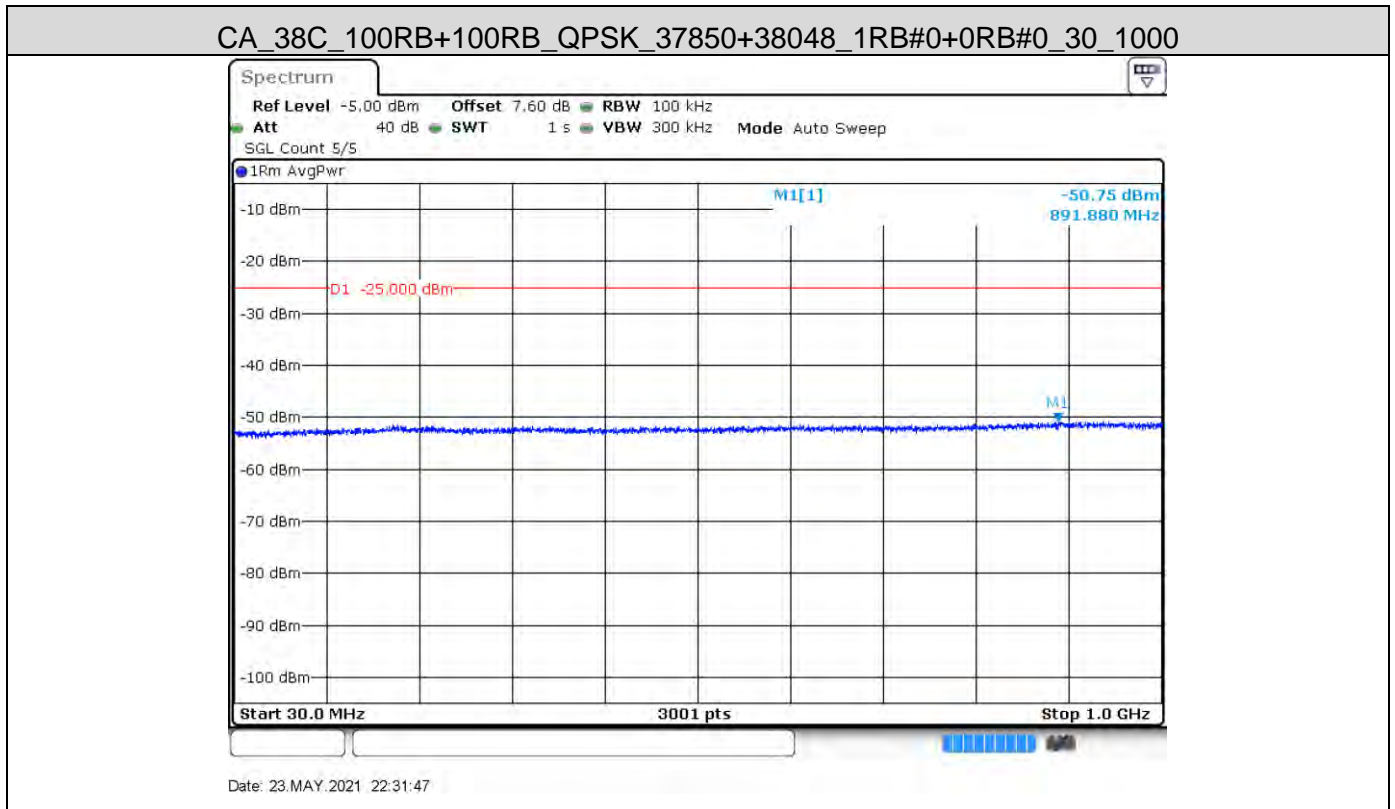
6 Spurious Emission at Antenna Terminal

NOTE: 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.

Part I - Test Plots

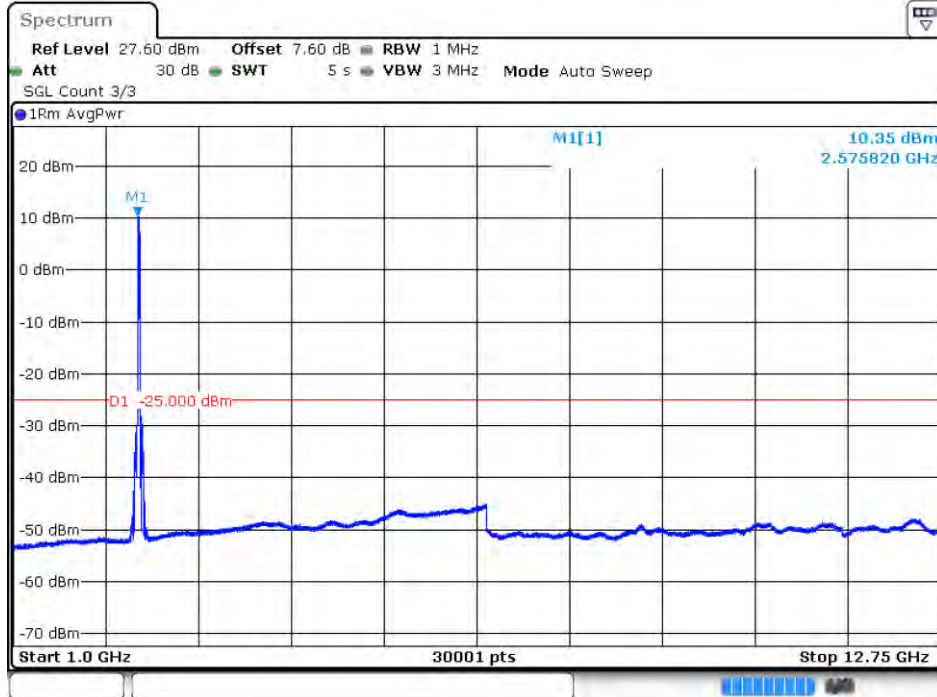
6.1 For LTE

6.1.1 Test Band = LTE Band CA_38C



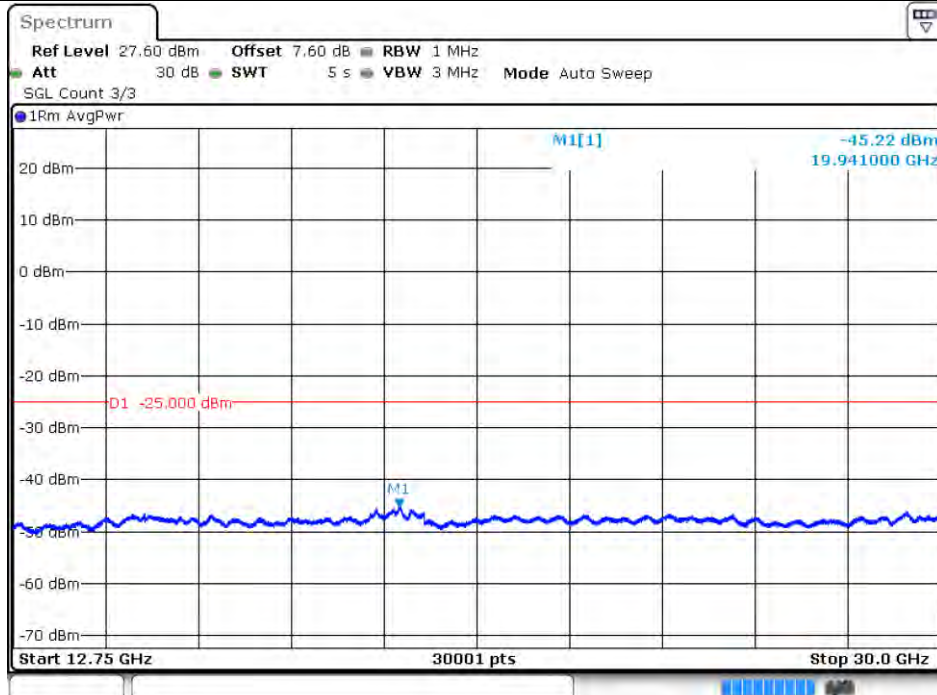


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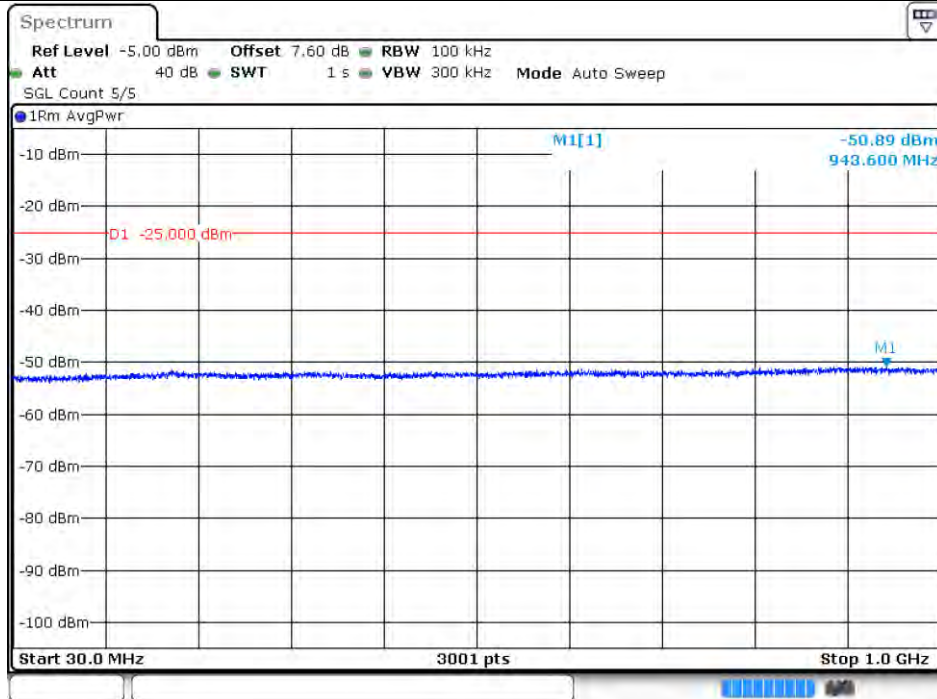


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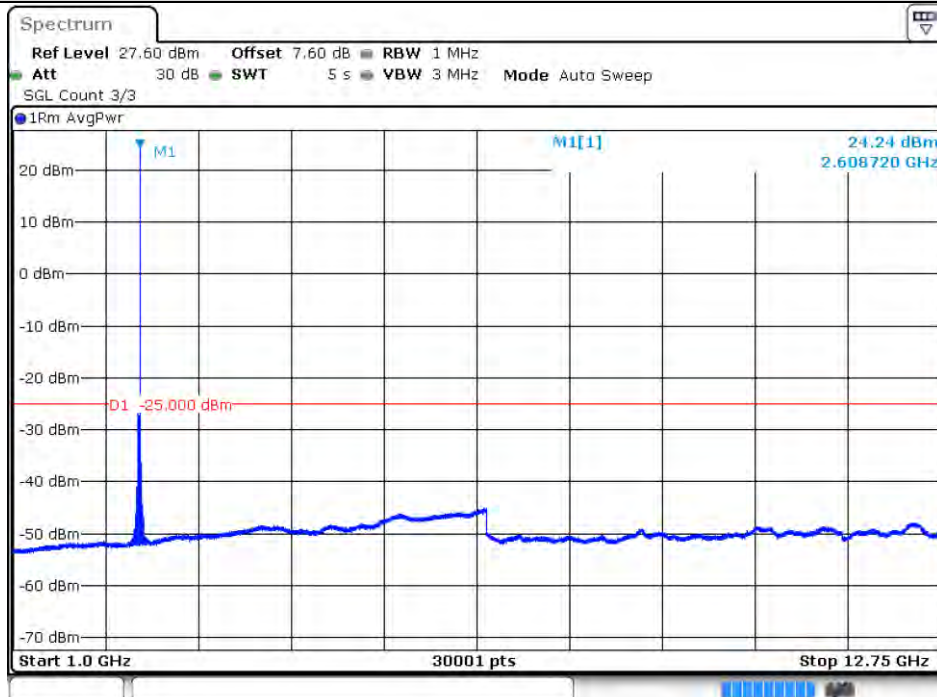


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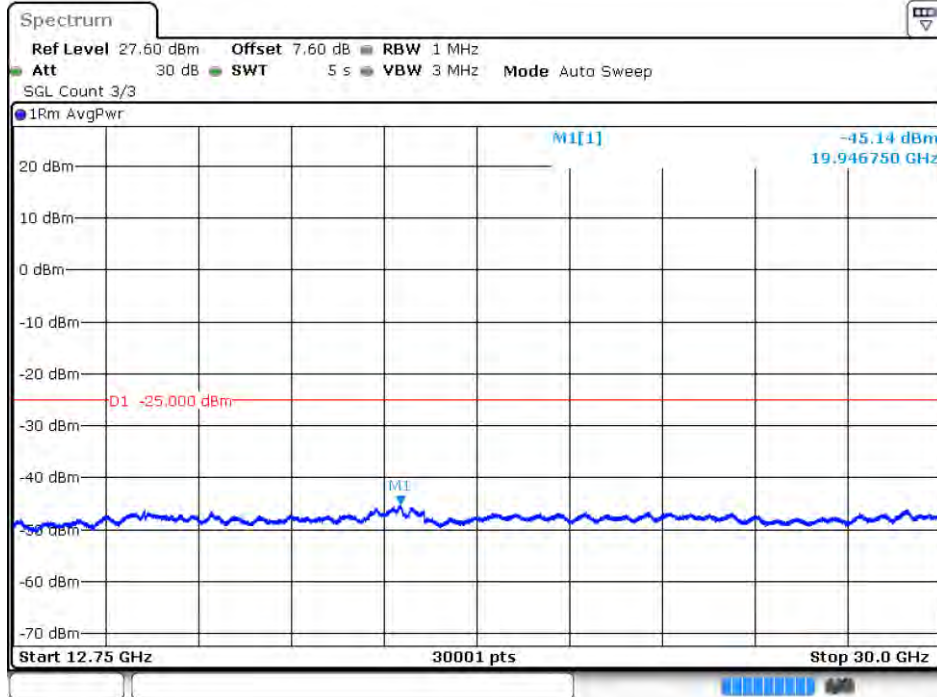


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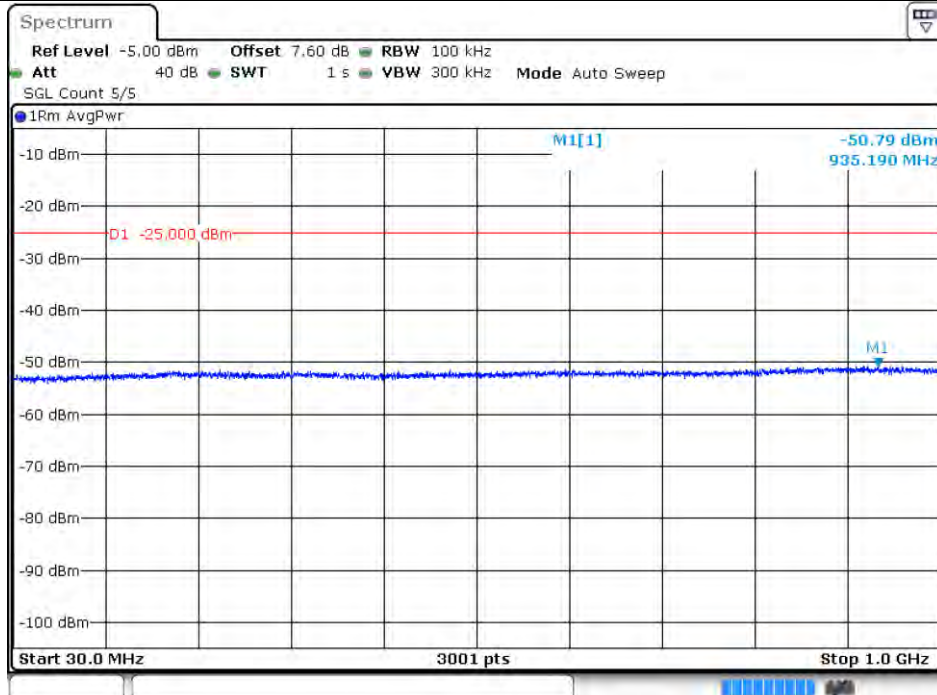


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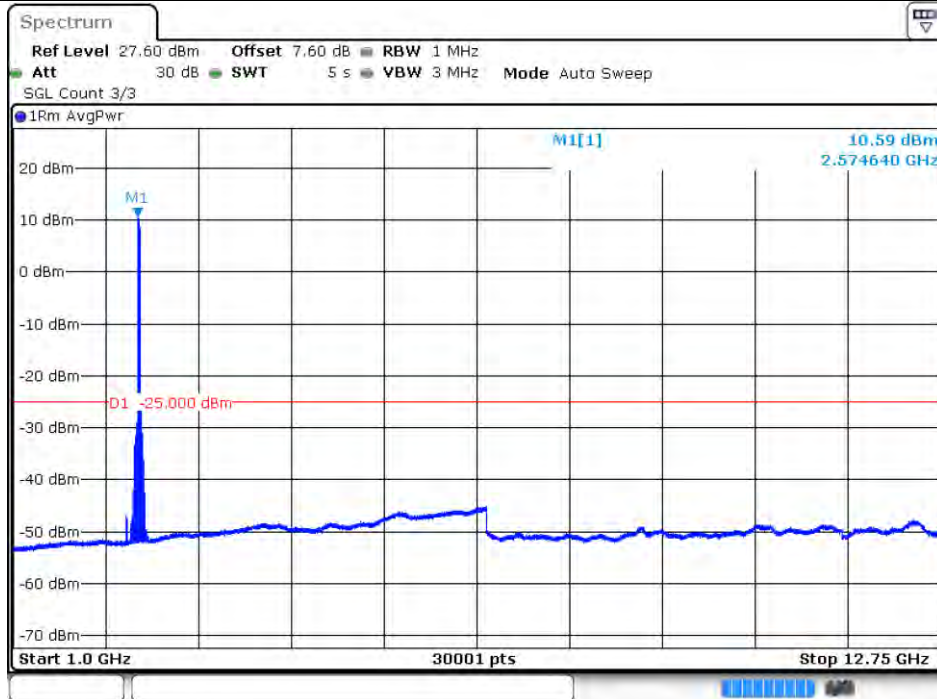
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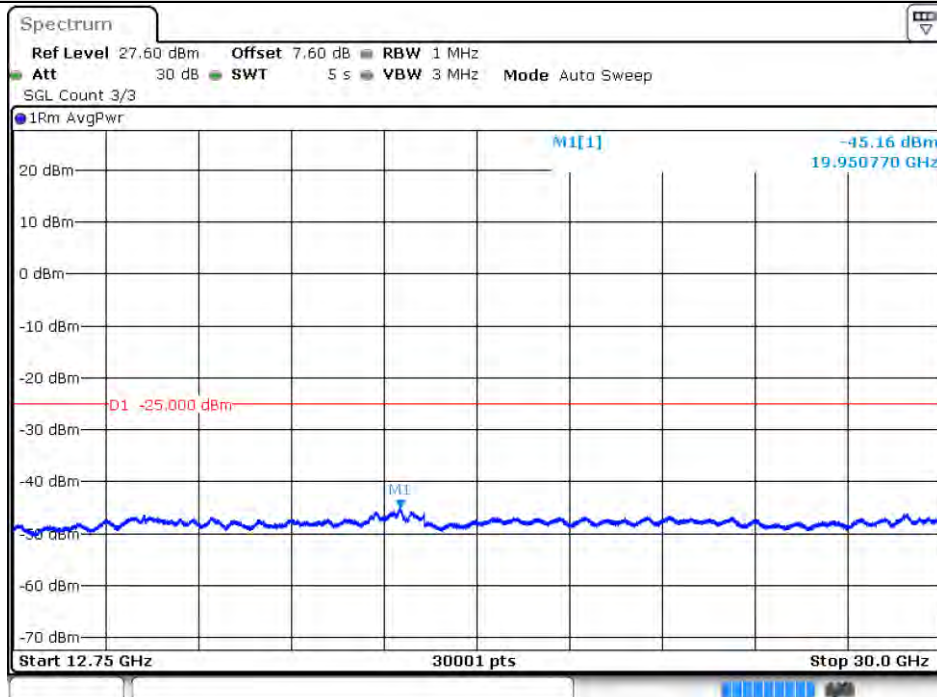


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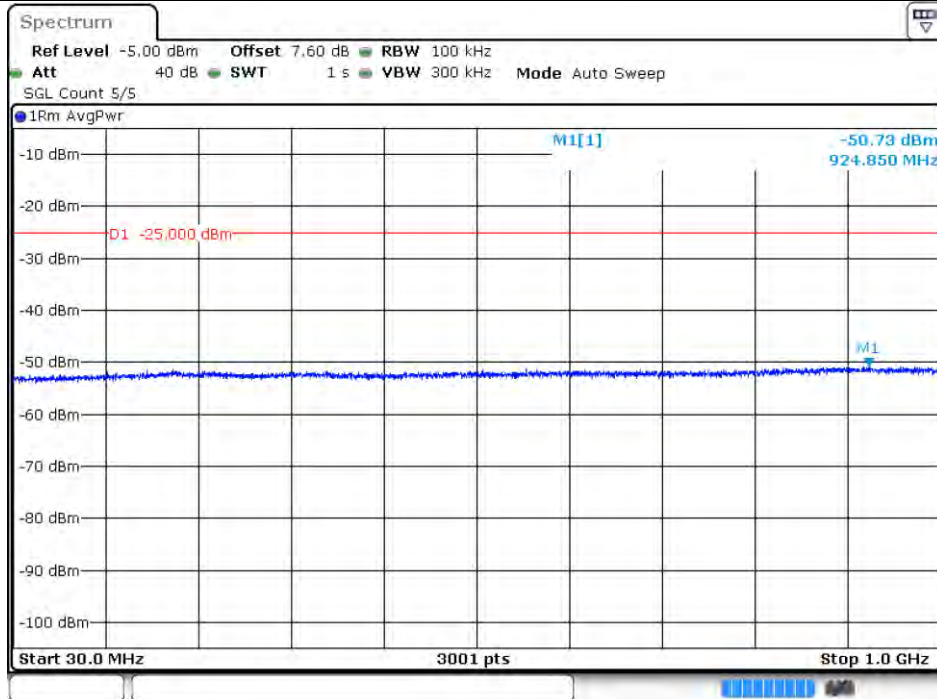


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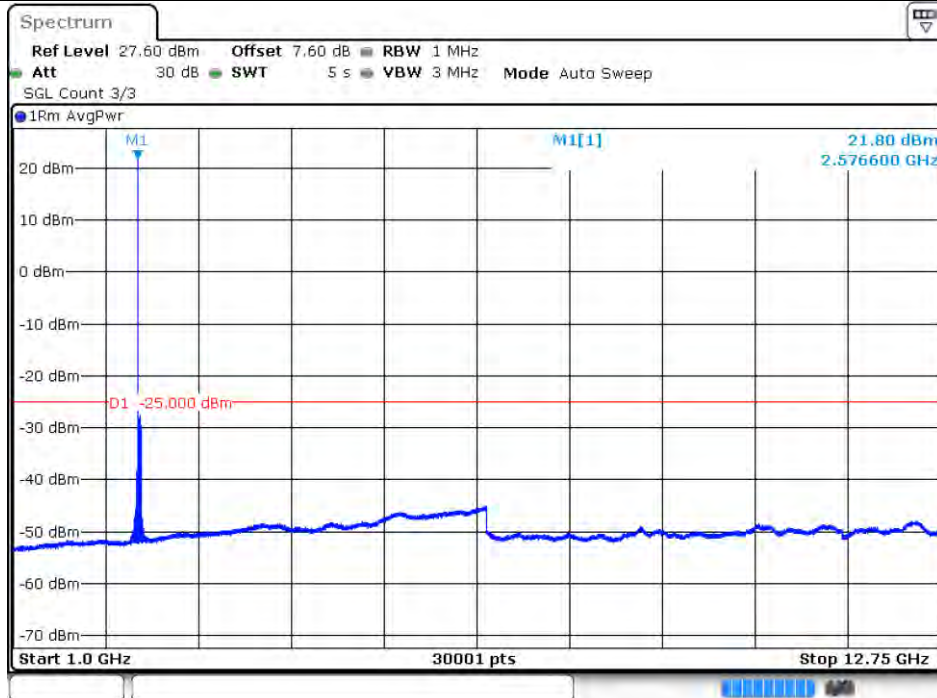


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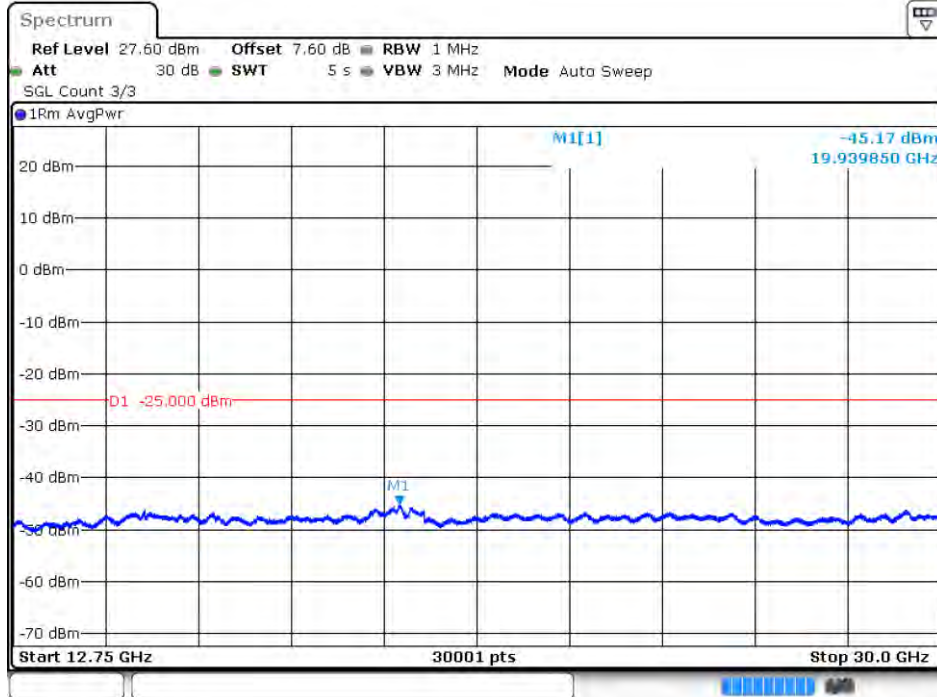


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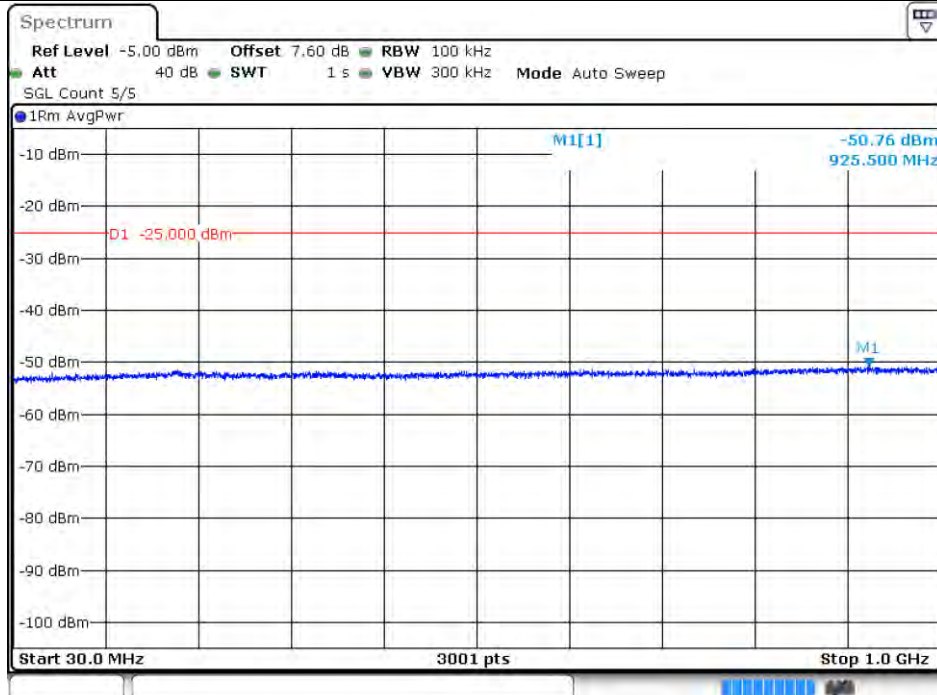


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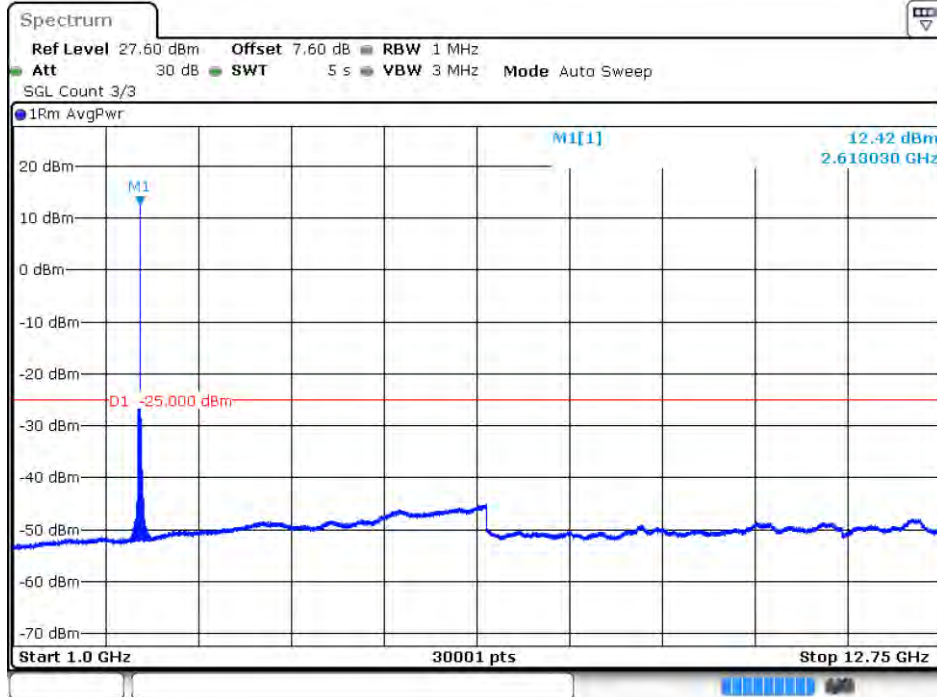


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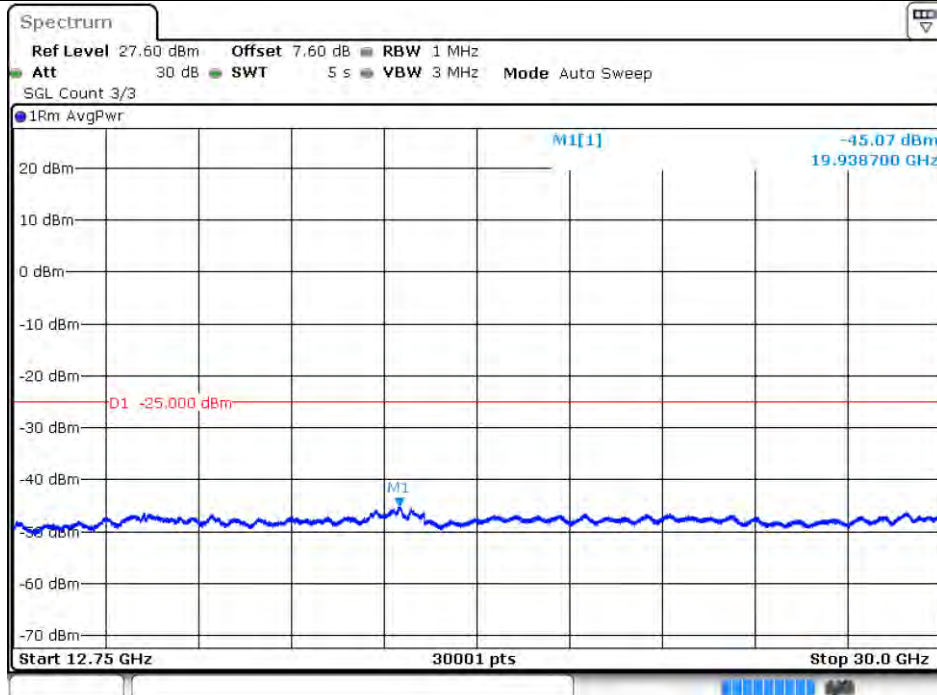


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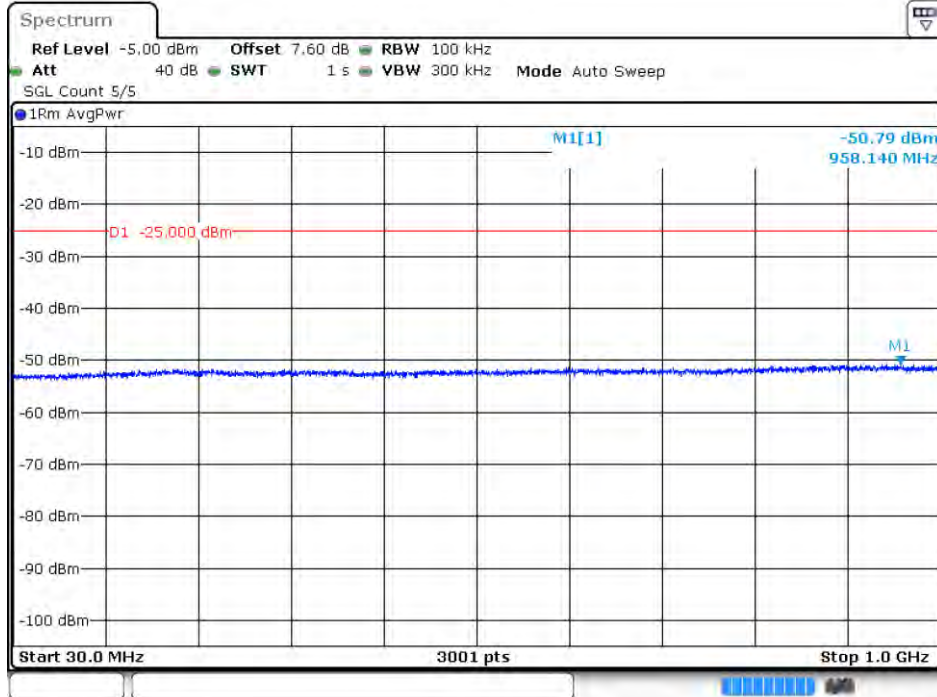


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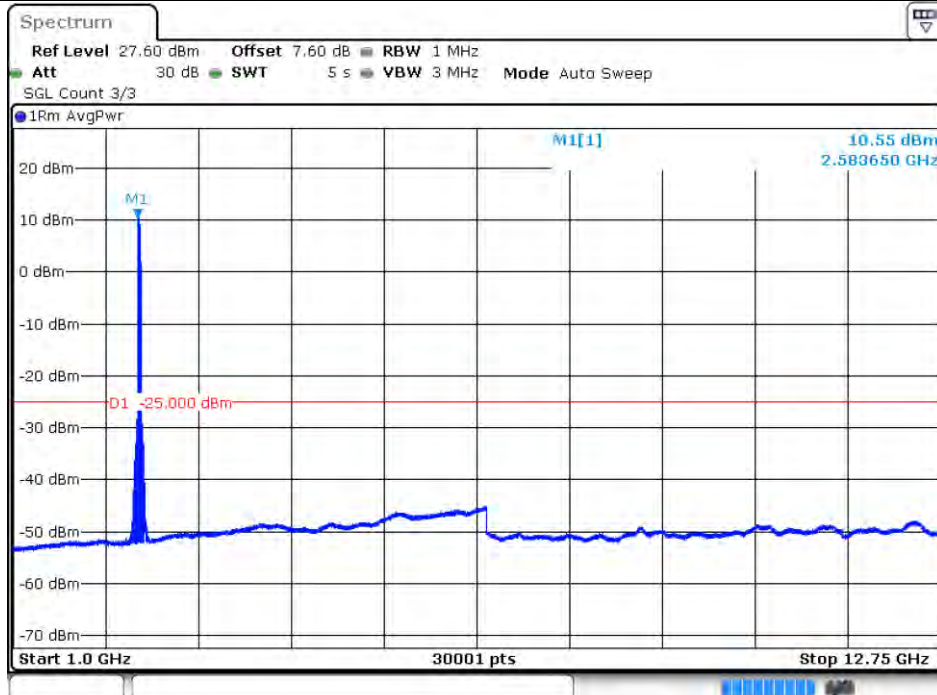


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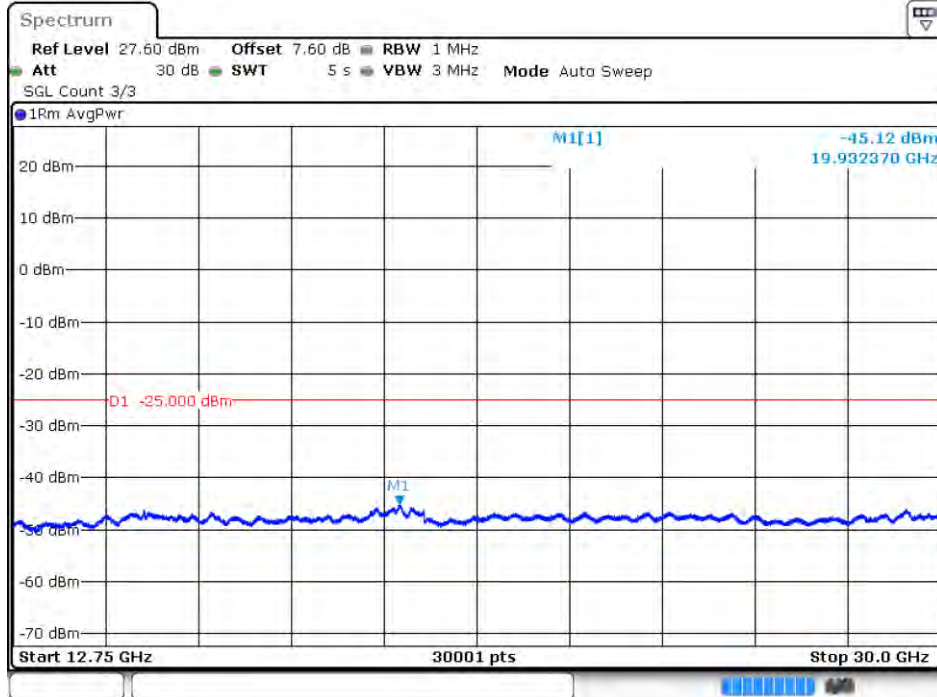


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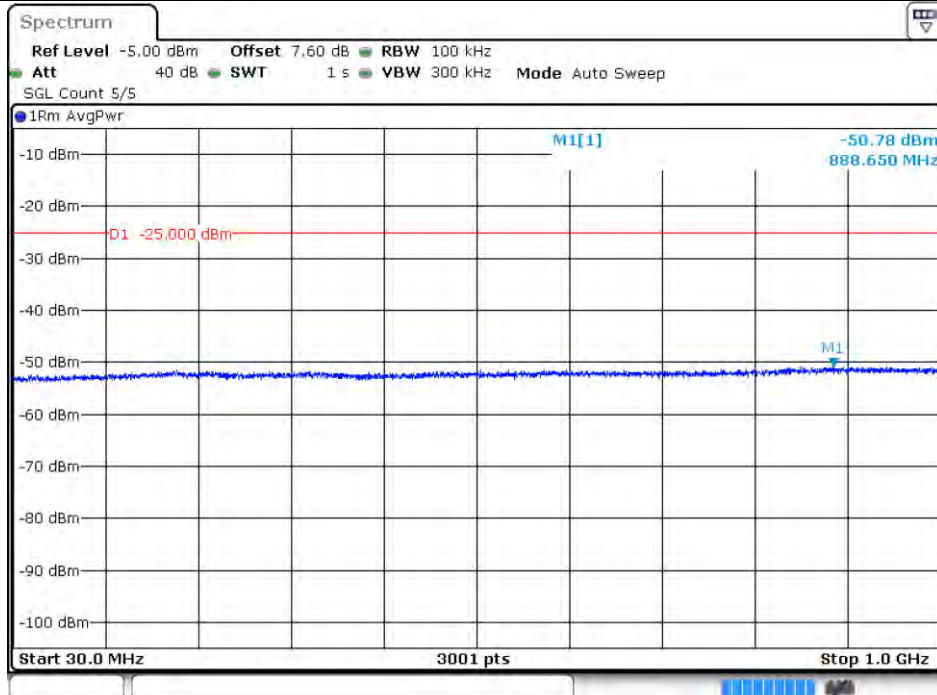


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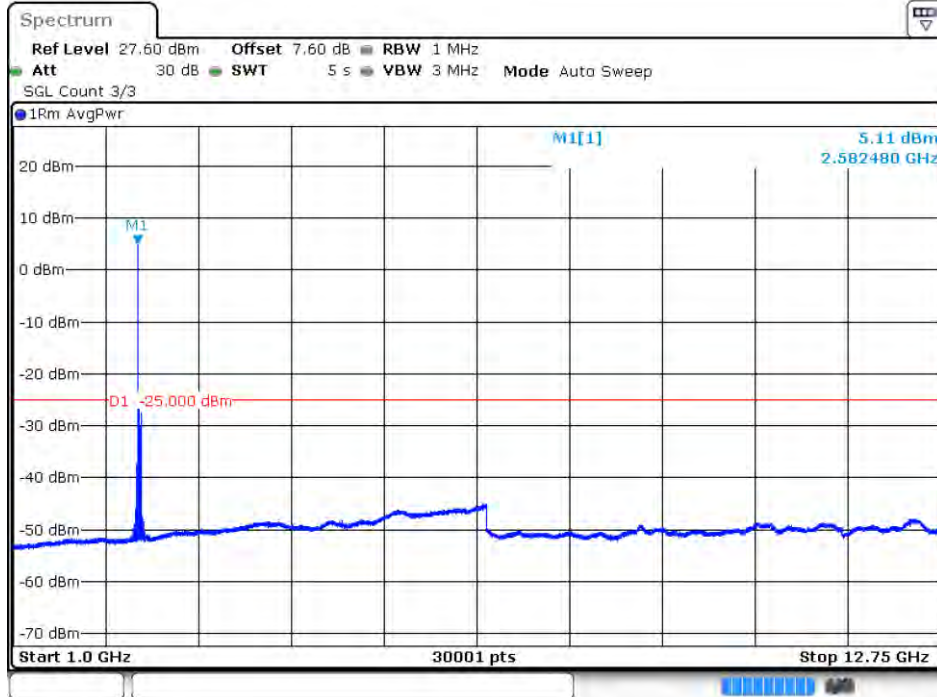


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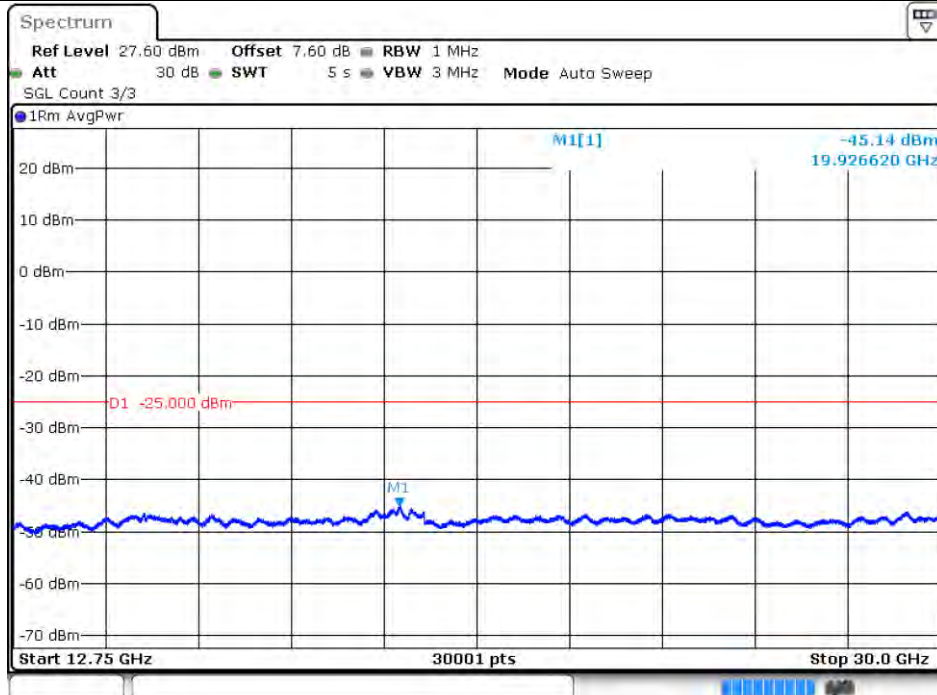


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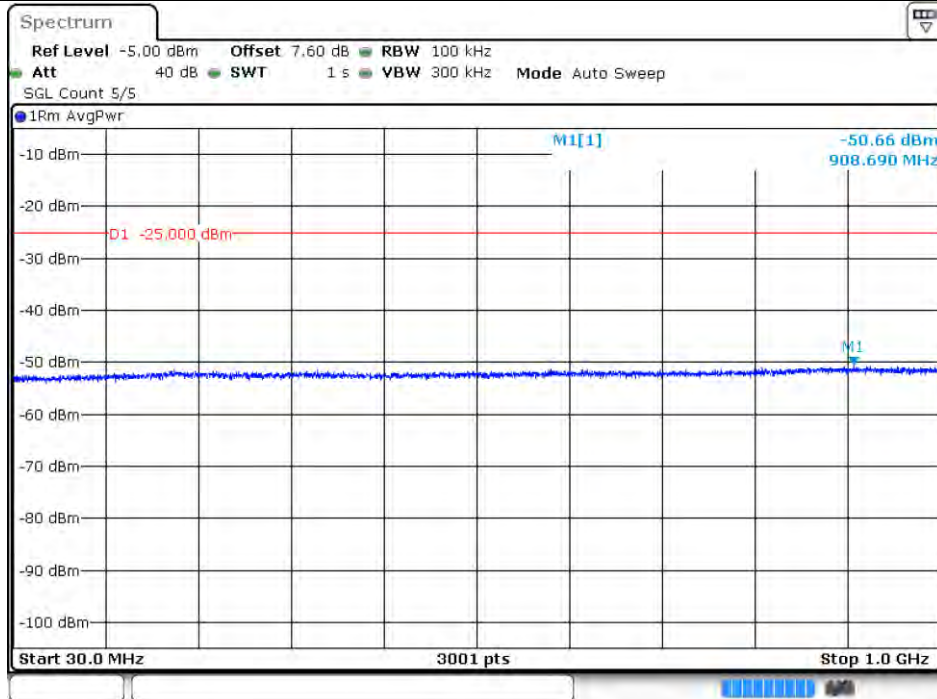


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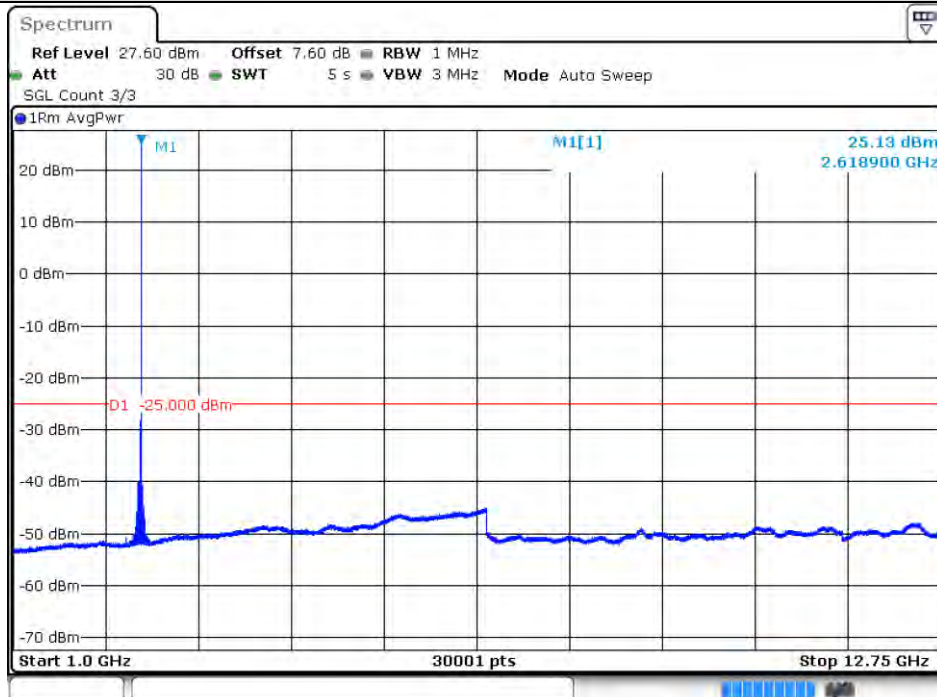


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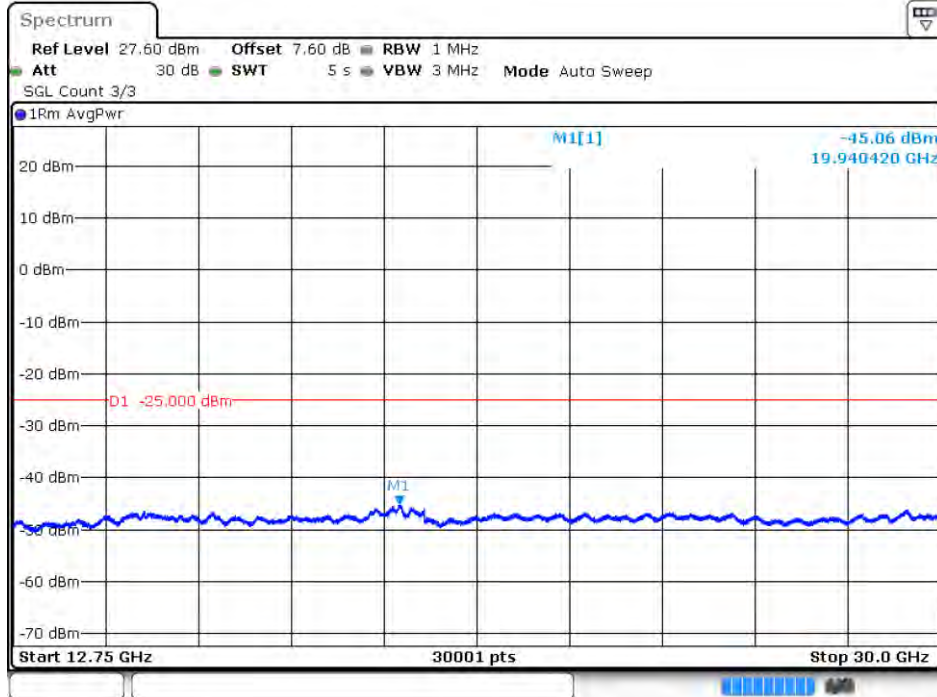


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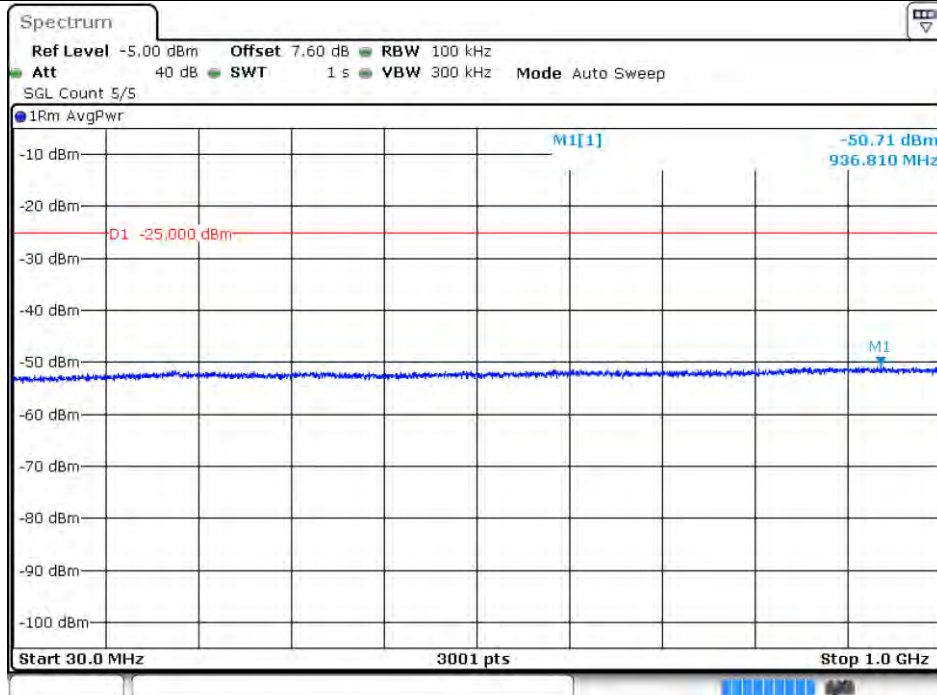


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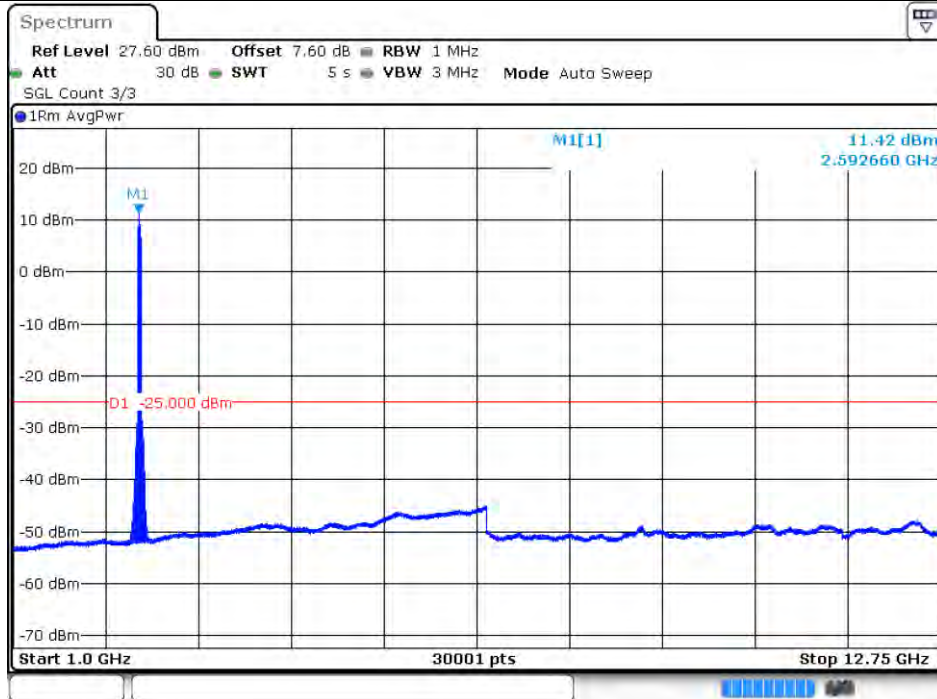


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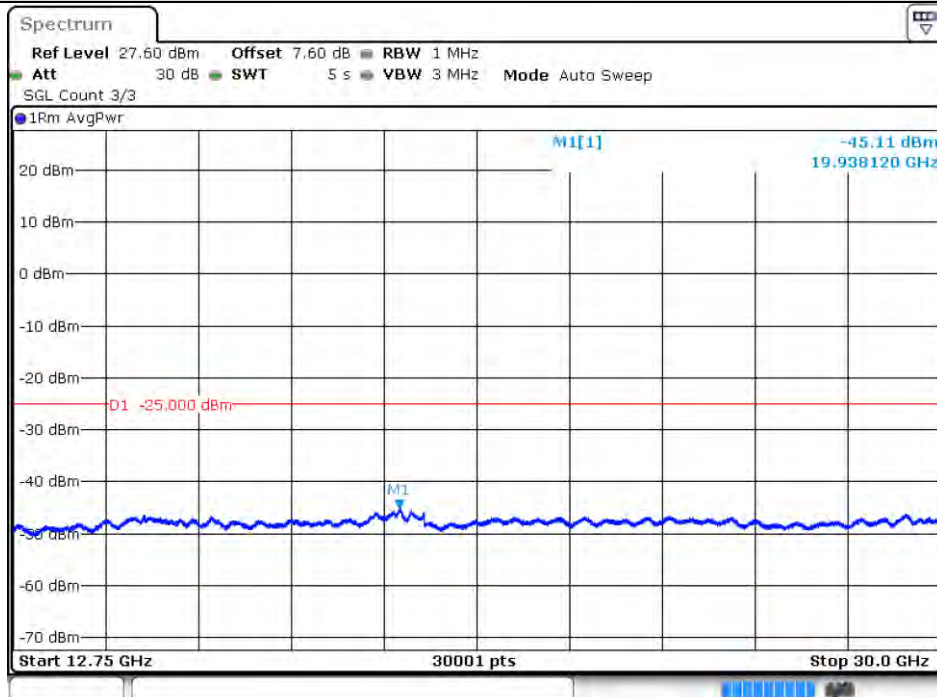


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Date: 23.MAY.2021 22:48:13



7 Field Strength of Spurious Radiation

7.1. Test Band = 38C_TM1 ANT0

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1522.5261	22.14	-47.94	-25.00	22.94	Horizontal
2	2882.5941	21.74	-43.61	-25.00	18.61	Horizontal
3	6474.1737	49.74	-55.43	-25.00	30.43	Horizontal
4	9088.8044	49.23	-50.32	-25.00	25.32	Horizontal
5	11923.946	47.54	-46.96	-25.00	21.96	Horizontal
6	17996.249	50.39	-43.41	-25.00	18.41	Horizontal



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7.2. Test Band = 38C_TM1 ANT0

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1542.3271	22.58	-47.71	-25.00	22.71	Vertical
2	2871.0936	22.03	-43.22	-25.00	18.22	Vertical
3	6739.6870	49.86	-54.20	-25.00	29.20	Vertical
4	11225.661	48.10	-47.65	-25.00	22.65	Vertical
5	14072.803	46.97	-45.21	-25.00	20.21	Vertical
6	17950.497	49.20	-43.64	-25.00	18.64	Vertical



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7.3. Test Band = 38C_TM1 ANT0

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1104.4052	21.78	-48.66	-25.00	23.66	Horizontal
2	2852.4926	21.98	-43.62	-25.00	18.62	Horizontal
3	6968.4484	50.53	-53.21	-25.00	28.21	Horizontal
4	9006.3003	48.54	-50.41	-25.00	25.41	Horizontal
5	13362.518	46.99	-45.73	-25.00	20.73	Horizontal
6	17994.749	49.75	-44.02	-25.00	19.02	Horizontal



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7.4. Test Band = 38C_TM1 ANT0

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1568.3284	21.76	-48.45	-25.00	23.45	Vertical
2	2928.2964	21.99	-42.75	-25.00	17.75	Vertical
3	7378.7189	49.80	-53.21	-25.00	28.21	Vertical
4	10597.879	48.37	-48.50	-25.00	23.50	Vertical
5	13355.017	46.85	-45.94	-25.00	20.94	Vertical
6	17984.249	49.45	-44.10	-25.00	19.10	Vertical



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7.5. Test Band = 38C_TM1 ANT0

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1244.6122	22.42	-48.14	-25.00	23.14	Horizontal
2	2999.5000	21.76	-42.71	-25.00	17.71	Horizontal
3	6529.6765	50.87	-54.10	-25.00	29.10	Horizontal
4	9030.3015	48.79	-50.26	-25.00	25.26	Horizontal
5	13360.268	46.90	-45.84	-25.00	20.84	Horizontal
6	17982.749	49.45	-44.07	-25.00	19.07	Horizontal



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7.6. Test Band = 38C_ TM1 ANT0

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1771.9386	22.04	-47.93	-25.00	22.93	Vertical
2	2889.6945	21.89	-43.41	-25.00	18.41	Vertical
3	6967.6984	50.04	-53.70	-25.00	28.70	Vertical
4	11934.446	47.96	-46.70	-25.00	21.70	Vertical
5	15006.600	45.77	-45.79	-25.00	20.79	Vertical
6	17911.495	48.80	-44.16	-25.00	19.16	Vertical



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7.7. Test Band = 38C_TM1 ANT1

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1788.0394	21.75	-48.41	-25.00	23.41	Horizontal
2	2866.4933	21.96	-43.35	-25.00	18.35	Horizontal
3	7503.2252	49.11	-52.97	-25.00	27.97	Horizontal
4	11897.694	46.98	-47.19	-25.00	22.19	Horizontal
5	16403.920	47.98	-45.83	-25.00	20.83	Horizontal
6	17996.249	49.73	-44.07	-25.00	19.07	Horizontal



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7.8. Test Band = 38C_TM1 ANT1

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1366.0183	21.63	-48.58	-25.00	23.58	Vertical
2	2997.8999	21.43	-43.09	-25.00	18.09	Vertical
3	6524.4262	50.37	-54.49	-25.00	29.49	Vertical
4	9049.0525	48.50	-50.62	-25.00	25.62	Vertical
5	11912.695	47.38	-46.94	-25.00	21.94	Vertical
6	17990.999	49.71	-43.98	-25.00	18.98	Vertical



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7.9. Test Band = 38C_ TM1 ANT1
7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1210.4105	21.79	-48.98	-25.00	23.98	Horizontal
2	2891.2946	22.31	-42.96	-25.00	17.96	Horizontal
3	6954.1977	50.34	-53.47	-25.00	28.47	Horizontal
4	9289.0645	48.19	-50.81	-25.00	25.81	Horizontal
5	14040.552	46.93	-45.16	-25.00	20.16	Horizontal
6	17985.749	49.32	-44.26	-25.00	19.26	Horizontal



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7.10. Test Band = 38C_ TM1 ANT1

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1095.4048	21.64	-48.80	-25.00	23.80	Vertical
2	2946.8973	21.82	-42.89	-25.00	17.89	Vertical
3	7134.2067	50.03	-53.13	-25.00	28.13	Vertical
4	11908.195	47.79	-46.46	-25.00	21.46	Vertical
5	14160.558	45.40	-46.07	-25.00	21.07	Vertical
6	17966.248	49.31	-43.86	-25.00	18.86	Vertical



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7.11. Test Band = 38C_ TM1 ANT1

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1242.8121	21.47	-49.02	-25.00	24.02	Horizontal
2	2919.6960	21.75	-43.13	-25.00	18.13	Horizontal
3	6513.9257	50.31	-54.33	-25.00	29.33	Horizontal
4	9010.8005	48.19	-50.77	-25.00	25.77	Horizontal
5	13345.267	46.52	-46.29	-25.00	21.29	Horizontal
6	17929.496	48.68	-44.22	-25.00	19.22	Horizontal



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7.12. Test Band = 38C_ TM1 ANT1

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1619.9310	21.61	-48.46	-25.00	23.46	Vertical
2	2905.7953	21.75	-43.31	-25.00	18.31	Vertical
3	7471.7236	49.74	-52.52	-25.00	27.52	Vertical
4	11165.658	46.97	-48.60	-25.00	23.60	Vertical
5	14999.850	45.50	-46.00	-25.00	21.00	Vertical
6	17995.499	49.80	-43.99	-25.00	18.99	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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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	LV	3.50	0.001356	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	NV	-4.75	-0.001838	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	HV	0.43	0.000165	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	LV	5.72	0.002210	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	NV	9.80	0.003788	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	HV	11.91	0.004605	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	LV	2.42	0.000929	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	NV	5.36	0.002058	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	HV	-7.98	-0.003060	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	LV	-10.75	-0.004124	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	NV	-13.58	-0.005210	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	HV	-3.68	-0.001410	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	LV	-5.19	-0.002005	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	NV	10.43	0.004031	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	HV	13.86	0.005359	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	LV	-4.80	-0.001841	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	NV	-11.92	-0.004573	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	HV	-0.56	-0.000216	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	LV	10.04	0.003890	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	NV	14.75	0.005711	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	HV	-10.02	-0.003882	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	LV	-13.36	-0.005165	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	NV	10.65	0.004117	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	HV	3.83	0.001481	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	LV	7.91	0.003035	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	NV	10.44	0.004005	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	HV	-11.63	-0.004462	PASS



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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-30	-8.54	-0.003308	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-20	11.85	0.004589	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-10	7.00	0.002712	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	0	-1.15	-0.000444	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	10	-7.72	-0.002990	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	20	6.13	0.002373	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	30	-3.08	-0.001194	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	40	12.39	0.004799	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	50	6.51	0.002521	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-30	1.84	0.000713	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-20	1.58	0.000611	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-10	-0.03	-0.000010	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	0	-1.64	-0.000634	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	10	8.63	0.003337	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	20	-8.85	-0.003420	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	30	-14.34	-0.005544	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	40	6.80	0.002629	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	50	8.77	0.003391	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-30	6.89	0.002644	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-20	6.35	0.002435	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-10	6.52	0.002501	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	0	-14.76	-0.005662	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	10	-8.60	-0.003301	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	20	-8.94	-0.003429	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	30	-14.90	-0.005718	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	40	-14.40	-0.005526	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	50	10.01	0.003840	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-30	5.20	0.002013	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-20	0.82	0.000317	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-10	12.88	0.004990	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	0	3.12	0.001207	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	10	13.83	0.005357	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	20	14.13	0.005473	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	30	10.70	0.004144	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	40	-3.86	-0.001494	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	50	-9.03	-0.003497	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-30	-1.76	-0.000681	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-20	-12.54	-0.004849	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-10	10.49	0.004057	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	0	3.14	0.001213	PASS



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CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	10	1.56	0.000602	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	20	1.91	0.000738	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	30	5.76	0.002226	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	40	14.93	0.005773	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	50	-10.57	-0.004088	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-30	-1.89	-0.000724	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-20	12.35	0.004738	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-10	-2.86	-0.001099	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	0	-12.99	-0.004986	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	10	7.96	0.003053	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	20	-10.70	-0.004105	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	30	-2.93	-0.001125	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	40	9.30	0.003568	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	50	-13.01	-0.004992	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-30	3.83	0.001483	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-20	11.29	0.004371	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-10	3.54	0.001369	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	0	-2.75	-0.001064	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	10	1.24	0.000481	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	20	-6.56	-0.002540	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	30	4.54	0.001759	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	40	4.84	0.001875	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	50	14.68	0.005686	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-30	-11.61	-0.004486	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-20	-13.43	-0.005194	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-10	13.26	0.005126	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	0	1.11	0.000429	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	10	2.41	0.000933	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	20	-4.39	-0.001696	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	30	-5.51	-0.002129	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	40	9.94	0.003842	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	50	-0.38	-0.000146	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-30	6.60	0.002534	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-20	-5.84	-0.002242	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-10	-1.97	-0.000754	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	0	14.22	0.005456	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	10	5.05	0.001938	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	20	5.01	0.001923	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	30	3.46	0.001327	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	40	14.21	0.005452	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	50	-11.78	-0.004520	PASS

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