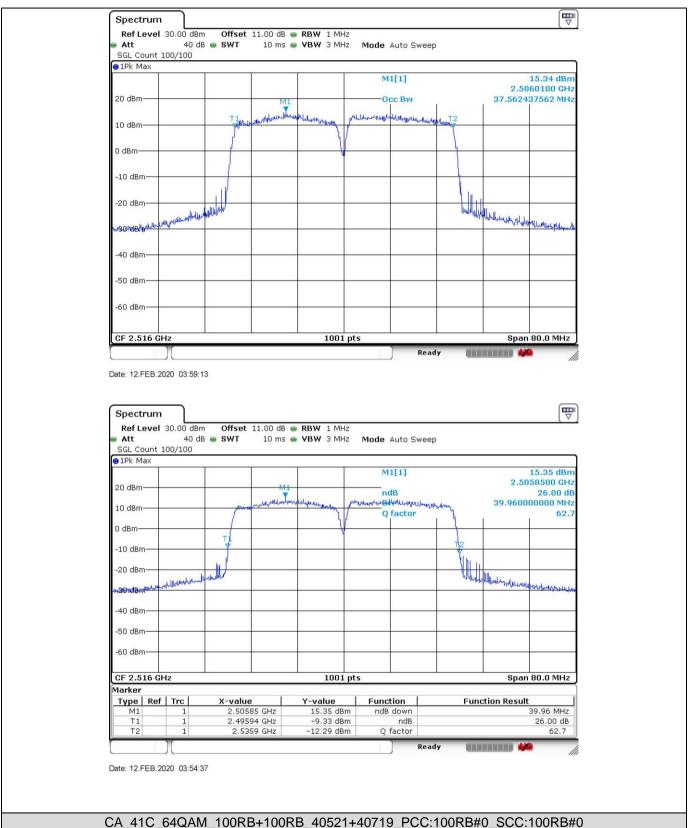


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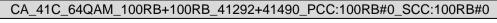
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Date: 12.FEB.2020 04:21:10

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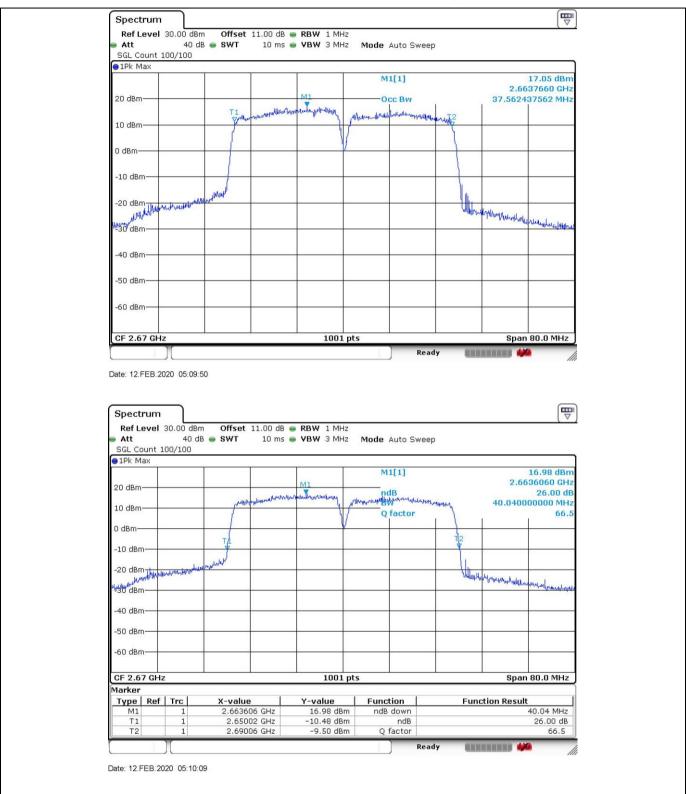
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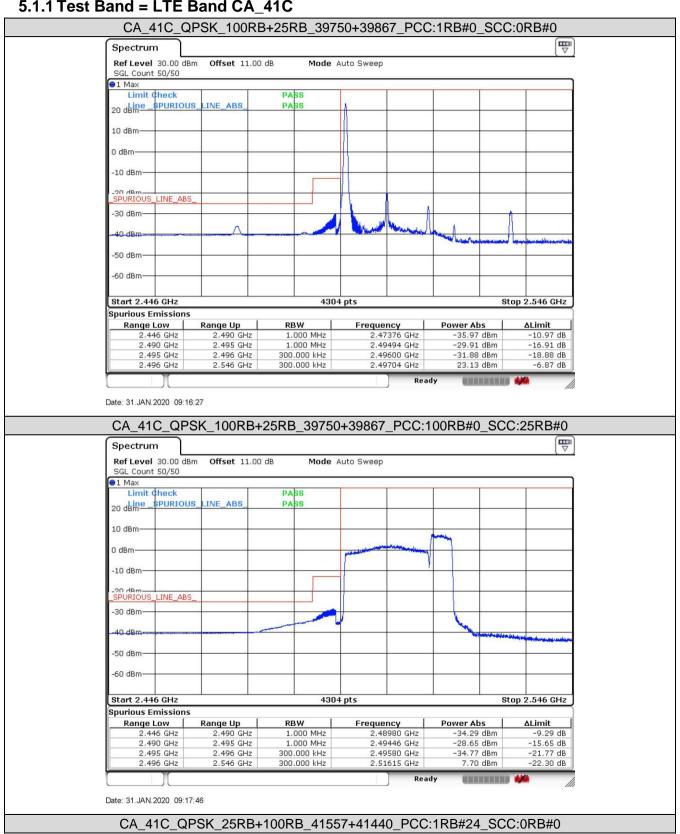
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Band Edges Compliance

5.1 For LTE

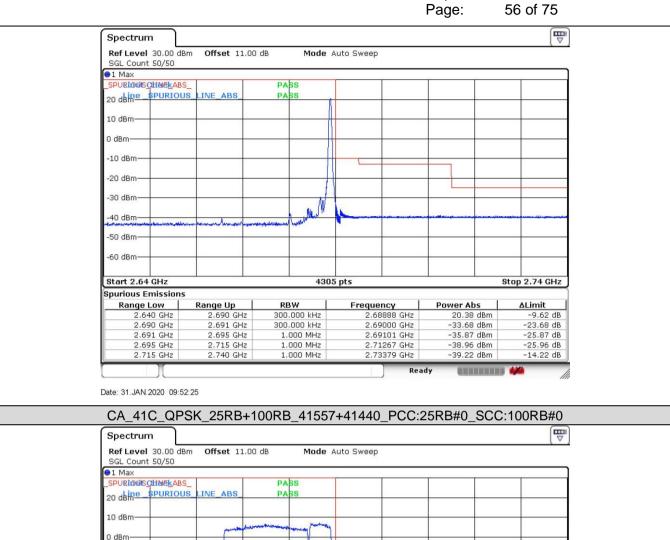
5.1.1 Test Band = LTE Band CA 41C



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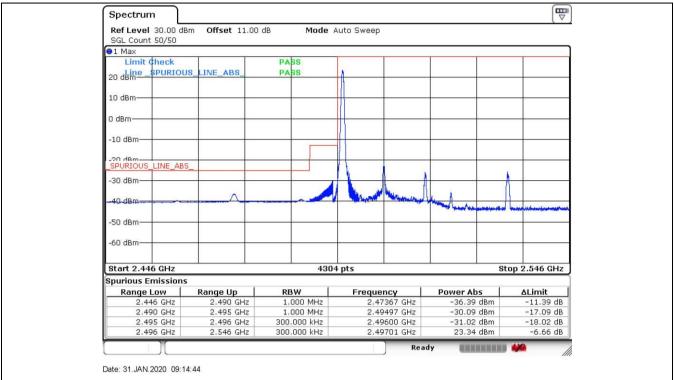
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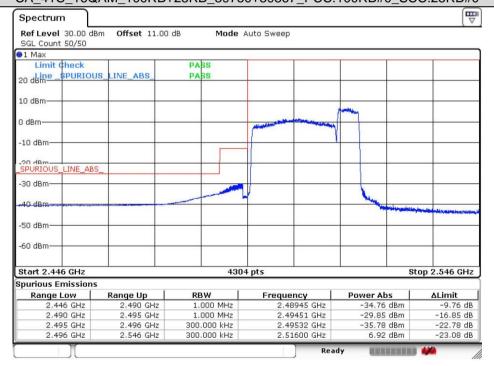


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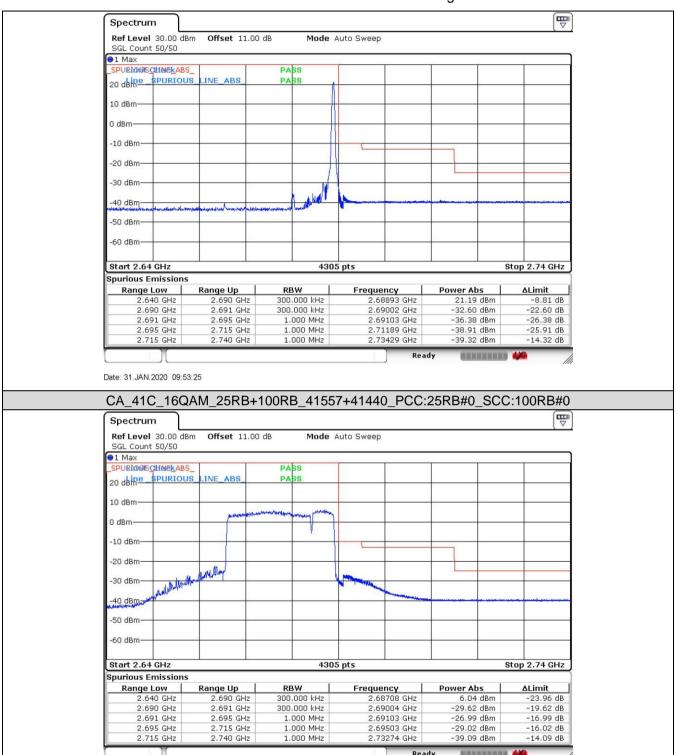
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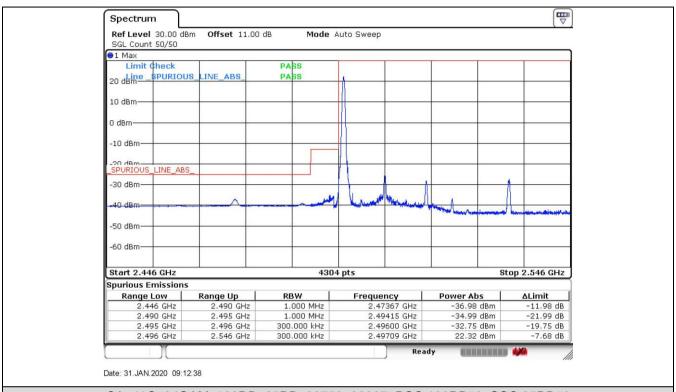
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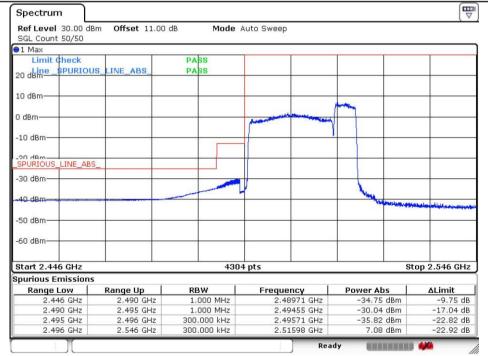


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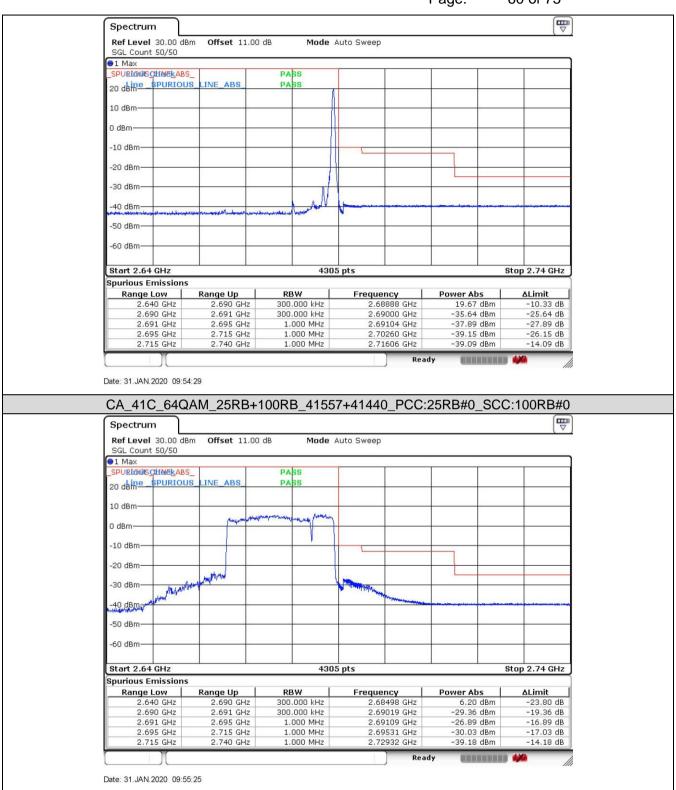
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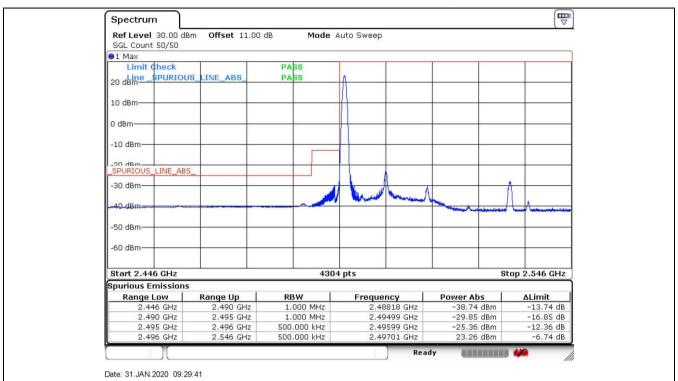
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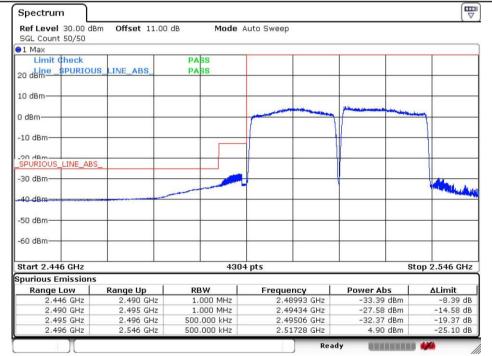


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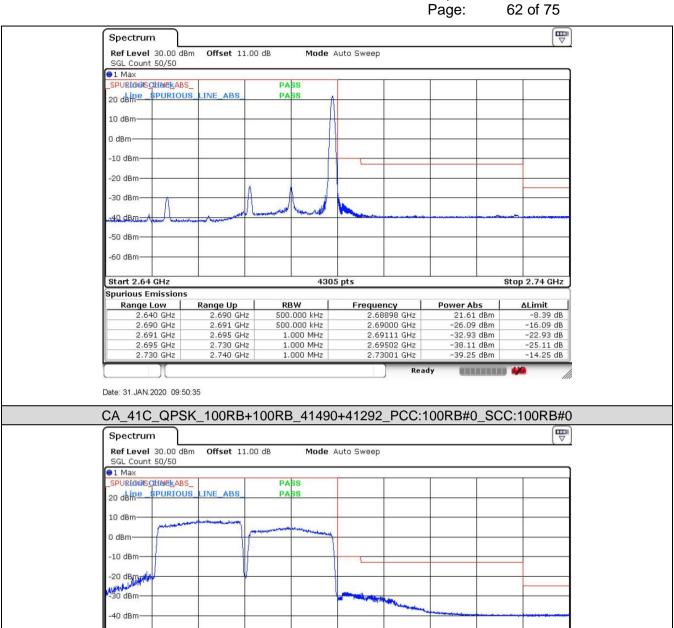


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start 2.64 GHZ	4305 pts				Stop 2.74 GHZ					
purious Emissions										
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit					
2.640 GHz	2.690 GHz	500.000 kHz	2.66185 GHz	8.55 dBm	-21.45 dB					
2.690 GHz	2.691 GHz	500.000 kHz	2.69096 GHz	-30.54 dBm	-20.54 dE					
2.691 GHz	2.695 GHz	1.000 MHz	2.69154 GHz	-28.16 dBm	-18.16 dE					
2.695 GHz	2.730 GHz	1.000 MHz	2.69526 GHz	-28.64 dBm	-15.64 dE					
2.730 GHz	2.740 GHz	1.000 MHz	2.73014 GHz	-39.17 dBm	-14.17 dE					

Date: 31.JAN.2020 09:44:50

-50 dBm -60 dBm

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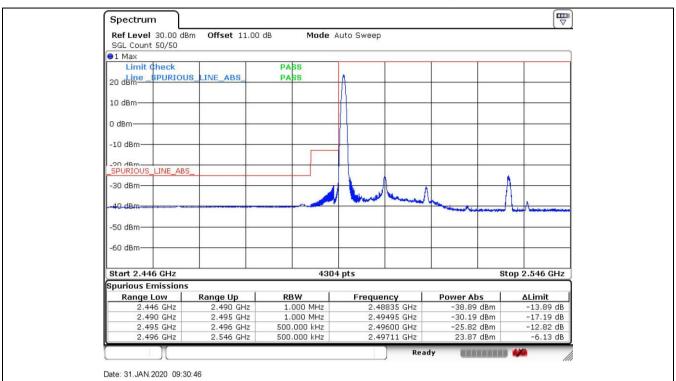
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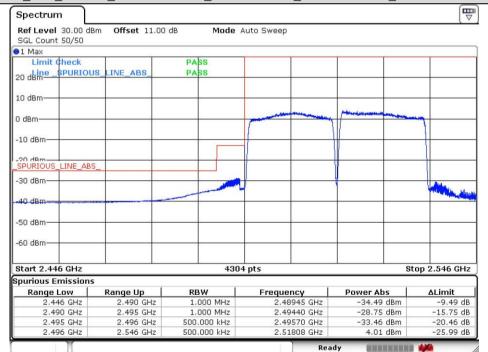


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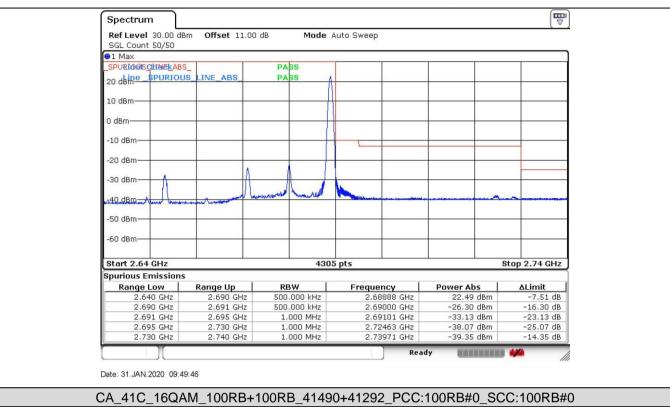
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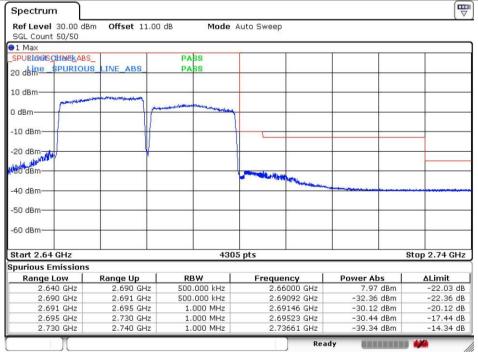
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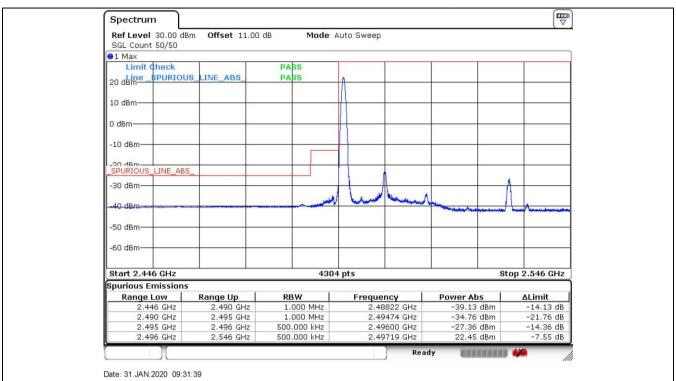
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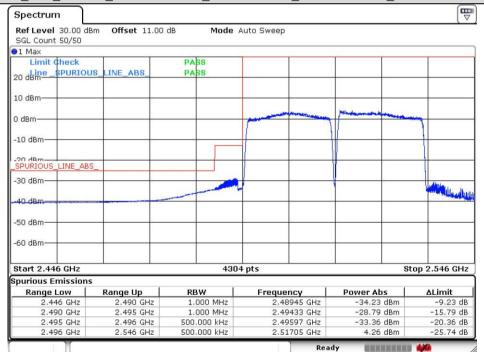


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Date: 31 JAN 2020 09:33:40

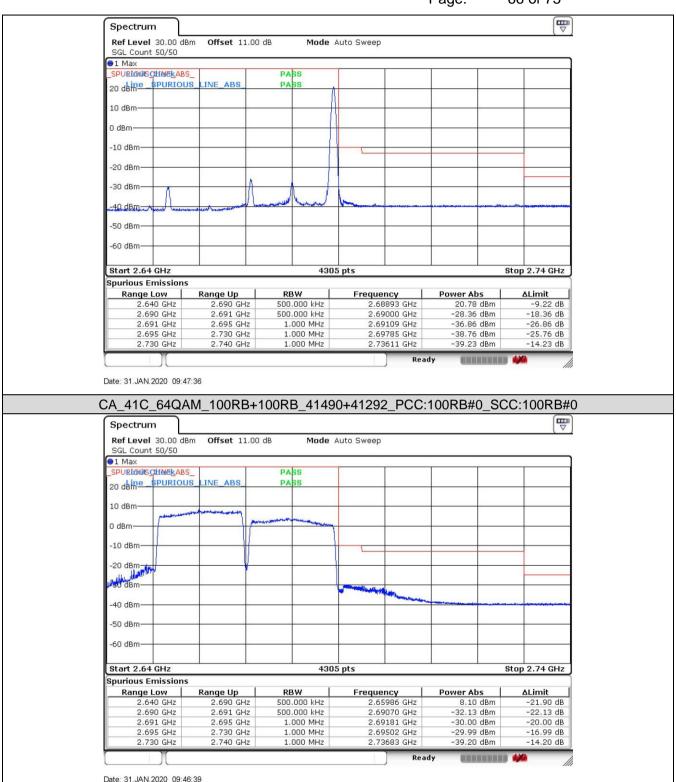
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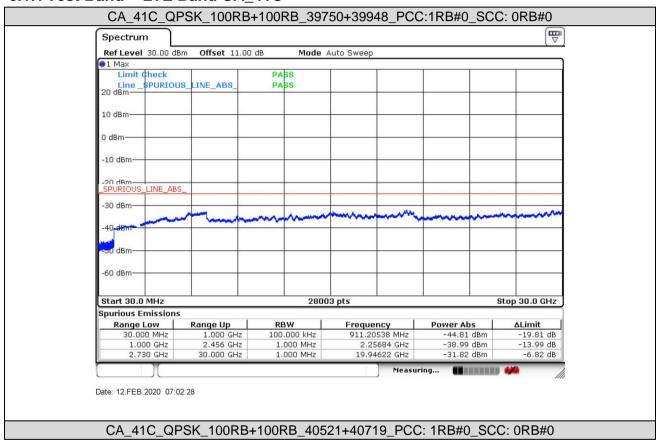
6 Spurious Emission at Antenna Terminal

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 41C

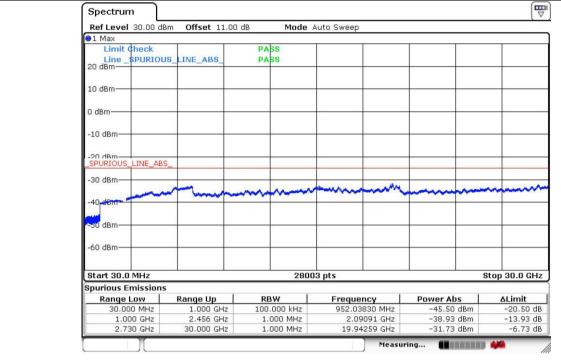






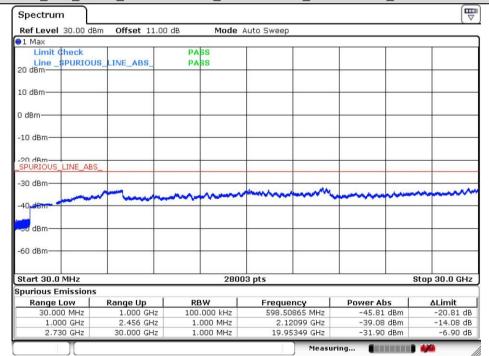
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Date: 12.FEB.2020 06:49:20

CA_41C_QPSK_100RB+100RB_41292+41490_PCC: 1RB#0_SCC: 0RB#0



Date: 12.FEB.2020 06:50:15



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7 Field Strength of Spurious Radiation 7.1 For LTE

7.1.1 Test Band = LTE Band CA_41C

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

7.1.1.1.1 Test Channel = LCH

	Test Charmer - LCH			
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
85.200000	-75.26	-25.00	50.26	Vertical
624.900000	-66.97	-25.00	41.97	Vertical
4994.000000	-57.78	-25.00	32.78	Vertical
7491.500000	-49.23	-25.00	24.23	Vertical
9988.500000	-41.64	-25.00	16.64	Vertical
14982.500000	-50.96	-25.00	25.96	Vertical
89.500000	-70.06	-25.00	45.06	Horizontal
624.900000	-64.02	-25.00	39.02	Horizontal
4994.000000	-59.05	-25.00	34.05	Horizontal
7491.000000	-51.97	-25.00	26.97	Horizontal
9988.500000	-45.60	-25.00	20.60	Horizontal
14983.000000	-52.89	-25.00	27.89	Horizontal

7.1.1.1.2 Test Channel = MCH

7.1.1.1.2	1 CSt Offarifici = MOI			
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
88.53549	-71.51	-25.00	46.51	Vertical
626.4181	-63.83	-25.00	38.83	Vertical
4998.084	-53.39	-25.00	28.39	Vertical
7492.666	-45.66	-25.00	20.66	Vertical
9992.411	-37.63	-25.00	12.63	Vertical
14985.28	-50.89	-25.00	25.89	Vertical
93.43383	-68.51	-25.00	43.51	Horizontal
628.2922	-61.38	-25.00	36.38	Horizontal
4998.045	-54.86	-25.00	29.86	Horizontal
7492.509	-51.30	-25.00	26.30	Horizontal
9991.811	-45.00	-25.00	20.00	Horizontal
14987.41	-52.24	-25.00	27.24	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
87.64559	-74.72	-25.00	49.72	Vertical
626.2869	-65.01	-25.00	40.01	Vertical
4997.524	-56.54	-25.00	31.54	Vertical
7495.11	-44.24	-25.00	19.24	Vertical
9992.161	-40.41	-25.00	15.41	Vertical
14985.75	-49.07	-25.00	24.07	Vertical
89.76267	-66.63	-25.00	41.63	Horizontal
629.79	-59.78	-25.00	34.78	Horizontal
4994.086	-54.34	-25.00	29.34	Horizontal
7493.381	-51.32	-25.00	26.32	Horizontal
9991.996	-44.90	-25.00	19.90	Horizontal
14985.92	-49.78	-25.00	24.78	Horizontal

Remark:

- 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.



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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]	Limit (ppm)	Verdict
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	TN	NV	-4.04	-0.001613	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	TN	NV	13.49	0.005221	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	TN	NV	-3.21	-0.001207	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	TN	NV	-1.72	-0.000681	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	TN	NV	-14.80	-0.005686	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	TN	NV	-2.25	-0.000840	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	TN	NV	7.28	0.002906	±2.5	PASS
CA_41C	16QAM	40521+40719	100RB#0/100RB#0	TN	NV	10.56	0.004090	±2.5	PASS
CA_41C	16QAM	41292+41490	100RB#0/100RB#0	TN	NV	13.33	0.005012	±2.5	PASS
CA_41C	16QAM	39867+39750	100RB#0/100RB#0	TN	NV	1.20	0.000474	±2.5	PASS
CA_41C	16QAM	39867+39750	100RB#0/100RB#0	TN	NV	-10.88	-0.004180	±2.5	PASS
CA_41C	16QAM	41490+41292	100RB#0/100RB#0	TN	NV	11.55	0.004311	±2.5	PASS
CA_41C	64QAM	39750+39948	100RB#0/100RB#0	TN	NV	4.57	0.001823	±2.5	PASS
CA_41C	64QAM	40521+40719	100RB#0/100RB#0	TN	NV	-10.02	-0.003879	±2.5	PASS
CA_41C	64QAM	41292+41490	100RB#0/100RB#0	TN	NV	13.14	0.004941	±2.5	PASS
CA_41C	64QAM	39867+39750	100RB#0/100RB#0	TN	NV	4.58	0.001812	±2.5	PASS
CA_41C	64QAM	39867+39750	100RB#0/100RB#0	TN	NV	4.01	0.001539	±2.5	PASS
CA_41C	64QAM	41490+41292	100RB#0/100RB#0	TN	NV	1.54	0.000575	±2.5	PASS

8.2 Frequency Error VS. Temperature

	0.2 1 10	queriey Erre	or vo. Tempera	tuic					
Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit (ppm)	Verdict
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	-30	13.92	0.005555	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	-20	10.11	0.004034	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	-10	-10.17	-0.004060	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	0	-11.52	-0.004596	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	10	5.50	0.002196	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	20	2.51	0.001000	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	30	0.60	0.000241	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	40	-7.75	-0.003094	±2.5	PASS
CA_41C	QPSK	39750+39948	100RB#0/100RB#0	NV	50	-14.16	-0.005652	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	-30	2.23	0.000864	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	-20	10.67	0.004130	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	-10	-3.03	-0.001173	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	0	-13.20	-0.005109	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	10	-3.29	-0.001274	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	20	13.09	0.005069	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	30	-5.52	-0.002136	±2.5	PASS



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						i age.	72 01 70		
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	40	9.59	0.003714	±2.5	PASS
CA_41C	QPSK	40521+40719	100RB#0/100RB#0	NV	50	12.93	0.005005	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	-30	3.63	0.001364	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	-20	-7.63	-0.002870	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	-10	2.14	0.000804	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	0	10.01	0.003762	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	10	-3.32	-0.001247	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	20	-0.38	-0.000143	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	30	7.95	0.002990	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	40	-7.87	-0.002960	±2.5	PASS
CA_41C	QPSK	41292+41490	100RB#0/100RB#0	NV	50	9.29	0.003493	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	-30	6.76	0.002678	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	-20	-14.13	-0.005594	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	-10	-7.51	-0.002974	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	0	-5.82	-0.002306	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	10	-1.45	-0.000574	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	20	10.63	0.004209	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	30	7.89	0.003122	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	40	11.58	0.004585	±2.5	PASS
CA_41C	QPSK	39867+39750	100RB#0/100RB#0	NV	50	0.61	0.000240	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	-30	9.46	0.003634	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	-20	-0.97	-0.000372	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	-10	-6.33	-0.002431	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	0	-9.19	-0.003531	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	10	13.92	0.005350	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	20	-1.27	-0.000487	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	30	-8.77	-0.003370	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	40	2.24	0.000859	±2.5	PASS
CA_41C	QPSK	40719+40521	100RB#0/100RB#0	NV	50	1.25	0.000481	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	-30	5.74	0.002143	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	-20	-10.97	-0.004094	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	-10	6.11	0.002279	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	0	-4.31	-0.001607	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	10	12.34	0.004604	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	20	-13.67	-0.005101	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	30	-1.13	-0.000420	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	40	9.02	0.003367	±2.5	PASS
CA_41C	QPSK	41490+41292	100RB#0/100RB#0	NV	50	-13.68	-0.005104	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	NV	-30	6.83	0.002725	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	NV	-20	3.59	0.001434	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	NV	-10	-2.99	-0.001193	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	NV	0	12.94	0.005163	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	NV	10	11.50	0.004590	±2.5	PASS
CA_41C	16QAM	39750+39948	100RB#0/100RB#0	NV	20	-8.75	-0.003490	±2.5	PASS
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