

Appendix B

E-UTRA Band CA_2A-13A



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1 Effective (Isotropic) Radiated Power Output Data

1.1 Max Power Test Result for LTE Band CA_2A-13A

PCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted	EIRP (dBm)	Limit (dBm)	Verdict
Band2	10MHz	QPSK	18650	1RB#0	22.11	26.11	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	21.87	25.87	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.25	26.25	33	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.37	25.37	33	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.21	25.21	33	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.02	25.02	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.17	25.17	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	21.91	25.91	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.11	26.11	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.06	26.06	33	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.21	25.21	33	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.33	25.33	33	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.03	25.03	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	20.94	24.94	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	21.99	25.99	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.05	26.05	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.11	26.11	33	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.06	25.06	33	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.29	25.29	33	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.15	25.15	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	20.88	24.88	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	21.70	25.70	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	21.62	25.62	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	21.48	25.48	33	PASS
Band2	10MHz	64QAM	18650	25RB#12	20.85	24.85	33	PASS
Band2	10MHz	64QAM	18650	25RB#0	20.75	24.75	33	PASS
Band2	10MHz	64QAM	18650	25RB#25	20.47	24.47	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	20.77	24.77	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	21.80	25.80	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	21.63	25.63	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	21.52	25.52	33	PASS
Band2	10MHz	64QAM	18900	25RB#0	20.51	24.51	33	PASS

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Band2	10MHz	64QAM	18900	25RB#12	20.65	24.65	33	PASS
Band2	10MHz	64QAM	18900	25RB#25	20.52	24.52	33	PASS
Band2	10MHz	64QAM	18900	50RB#0	20.66	24.66	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	21.83	25.83	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	21.59	25.59	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	21.77	25.77	33	PASS
Band2	10MHz	64QAM	19150	25RB#25	20.28	24.28	33	PASS
Band2	10MHz	64QAM	19150	25RB#0	20.62	24.62	33	PASS
Band2	10MHz	64QAM	19150	25RB#12	20.69	24.69	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	20.39	24.39	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.23	25.23	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.47	25.47	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.40	25.40	33	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.10	24.10	33	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.00	24.00	33	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.17	24.17	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.34	24.34	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.24	25.24	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.35	25.35	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.70	25.70	33	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.23	24.23	33	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.34	24.34	33	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.37	24.37	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.25	24.25	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.22	25.22	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.13	25.13	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.24	25.24	33	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.17	24.17	33	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.00	24.00	33	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.11	24.11	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	19.99	23.99	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.29	26.29	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.18	26.18	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.37	26.37	33	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.17	25.17	33	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.39	25.39	33	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.24	25.24	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.48	25.48	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.08	26.08	33	PASS

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Band2	20MHz	QPSK	18900	1RB#49	22.00	26.00	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.34	26.34	33	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.28	25.28	33	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.44	25.44	33	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.32	25.32	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.32	25.32	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	21.94	25.94	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	21.81	25.81	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.15	26.15	33	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.02	25.02	33	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.41	25.41	33	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.00	25.00	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.30	25.30	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	21.80	25.80	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	21.79	25.79	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	21.77	25.77	33	PASS
Band2	20MHz	64QAM	18700	50RB#0	20.49	24.49	33	PASS
Band2	20MHz	64QAM	18700	50RB#25	20.61	24.61	33	PASS
Band2	20MHz	64QAM	18700	50RB#50	20.94	24.94	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	20.78	24.78	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	21.88	25.88	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	21.59	25.59	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	21.75	25.75	33	PASS
Band2	20MHz	64QAM	18900	50RB#25	20.82	24.82	33	PASS
Band2	20MHz	64QAM	18900	50RB#50	20.65	24.65	33	PASS
Band2	20MHz	64QAM	18900	50RB#0	20.72	24.72	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	20.56	24.56	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	21.64	25.64	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	21.89	25.89	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	21.55	25.55	33	PASS
Band2	20MHz	64QAM	19100	50RB#50	20.73	24.73	33	PASS
Band2	20MHz	64QAM	19100	50RB#0	20.73	24.73	33	PASS
Band2	20MHz	64QAM	19100	50RB#25	20.52	24.52	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	20.72	24.72	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.57	25.57	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.55	25.55	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.47	25.47	33	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.26	24.26	33	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.50	24.50	33	PASS

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Band2	20MHz	16QAM	18700	50RB#50	20.20	24.20	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.48	24.48	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.43	25.43	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.56	25.56	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.33	25.33	33	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.47	24.47	33	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.37	24.37	33	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.47	24.47	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.32	24.32	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.39	25.39	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.41	25.41	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.23	25.23	33	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.35	24.35	33	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.35	24.35	33	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.37	24.37	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.05	24.05	33	PASS

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SCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted	EIRP (dBm)	Limit (dBm)	Verdict
Band13	10MHz	QPSK	23230	1RB#24	22.19	24.19	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.18	24.18	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.32	24.32	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.13	23.13	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.31	23.31	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.16	23.16	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.38	23.38	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.53	22.53	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.34	22.34	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	20.16	22.16	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	19.50	21.50	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	19.18	21.18	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	19.41	21.41	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	19.24	21.24	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.36	23.36	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.46	23.46	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.39	23.39	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.14	22.14	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.34	22.34	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.40	22.40	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.10	22.10	34.77	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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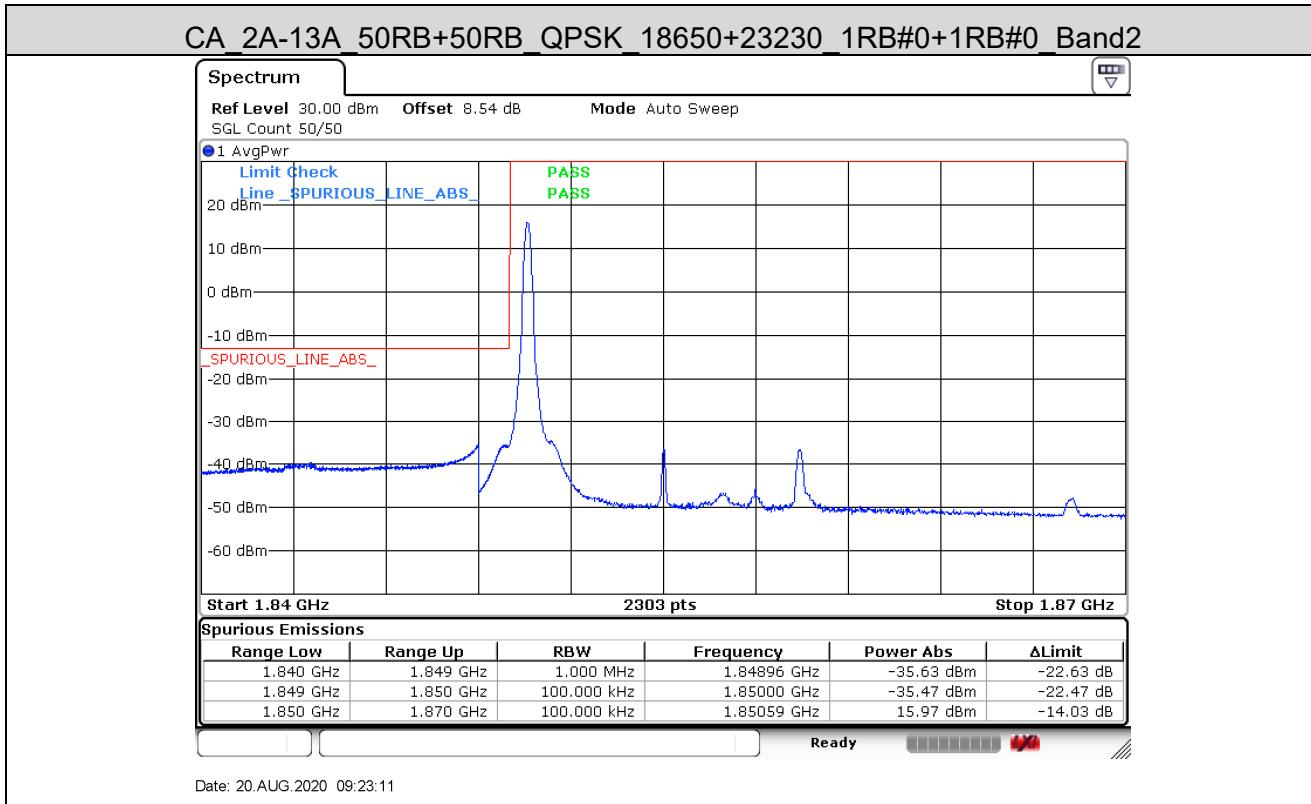


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2 Band Edges Compliance

2.1 For LTE

2.1.1 Test Band = LTE Band CA_2A-13A

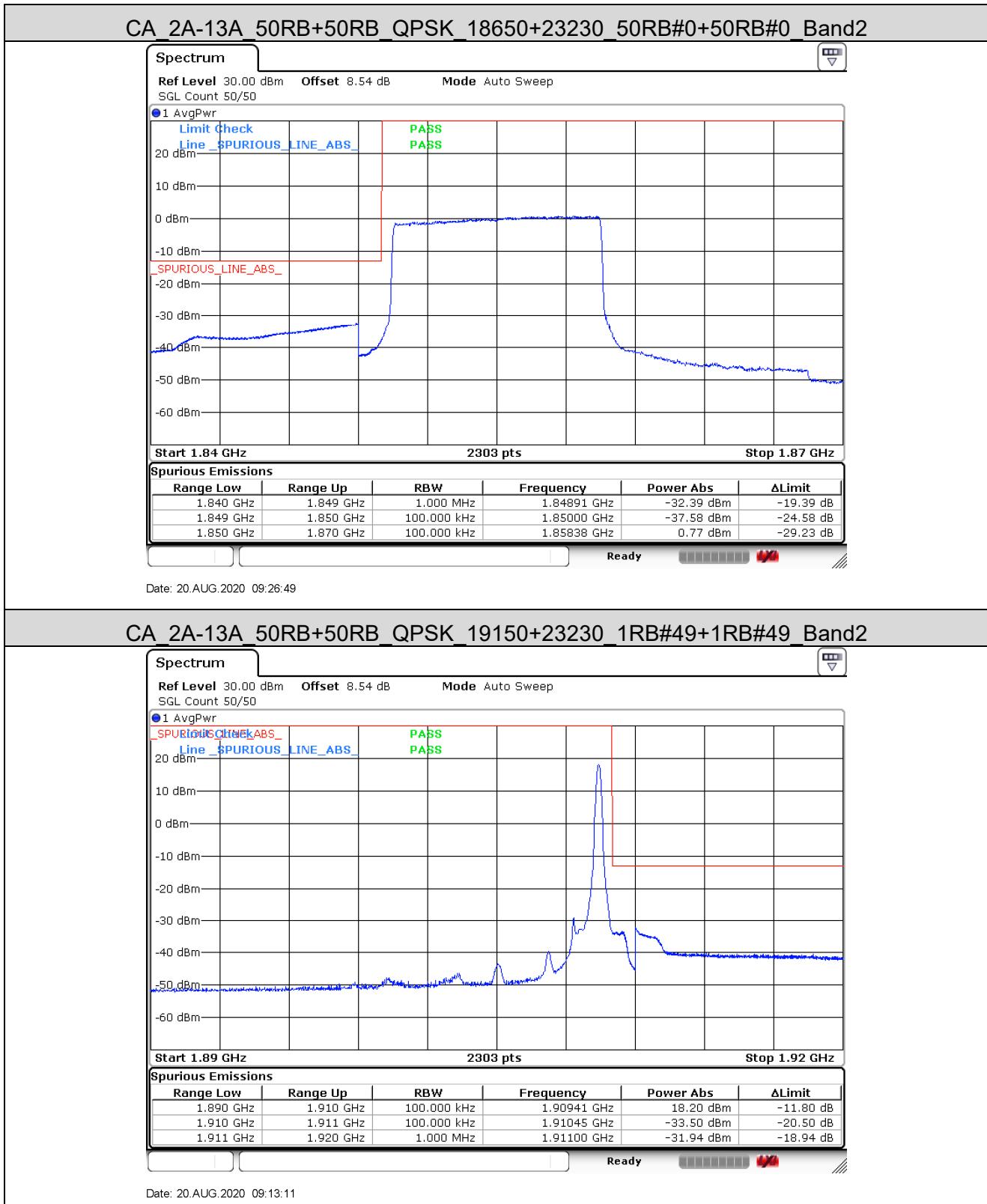


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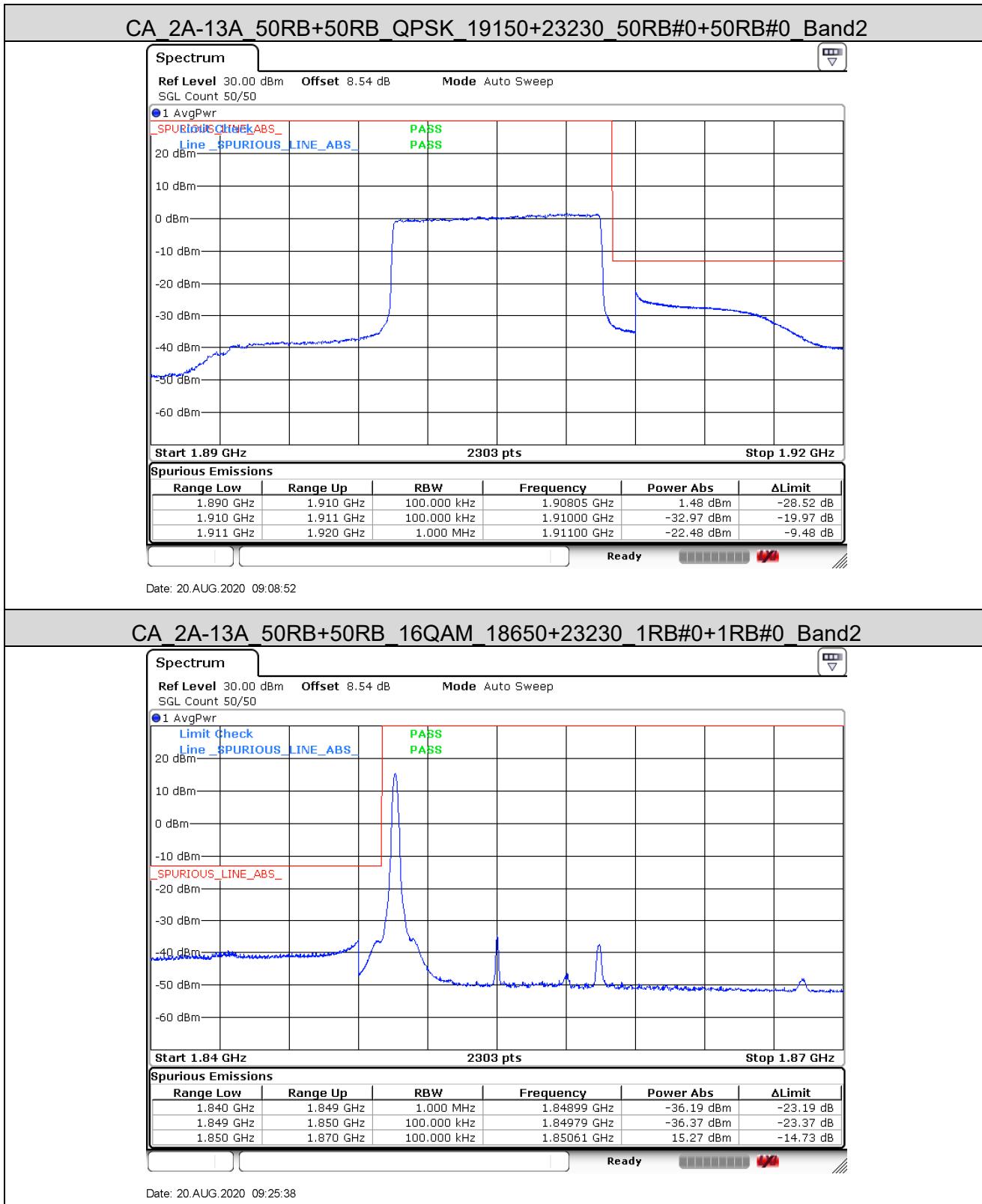
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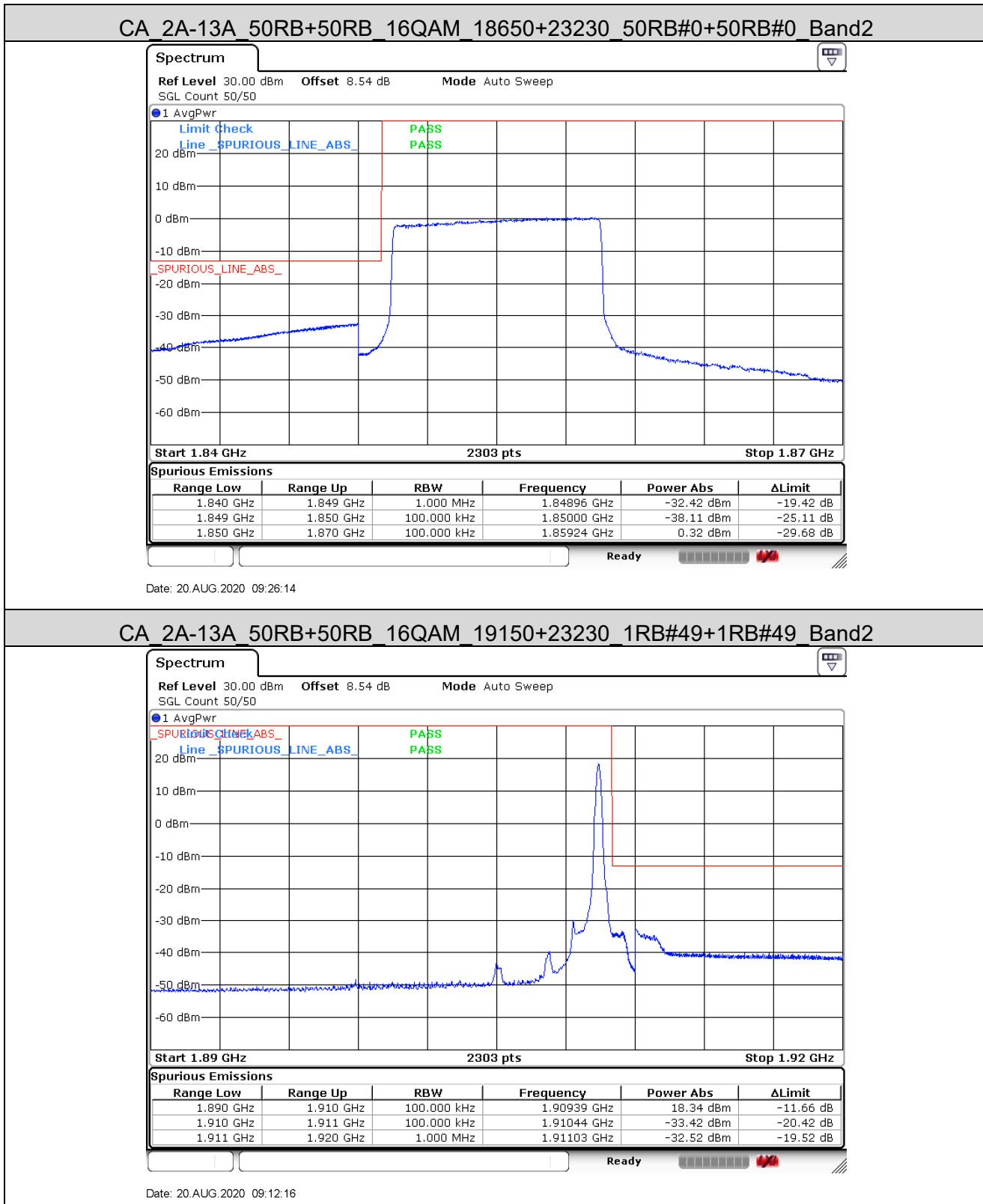




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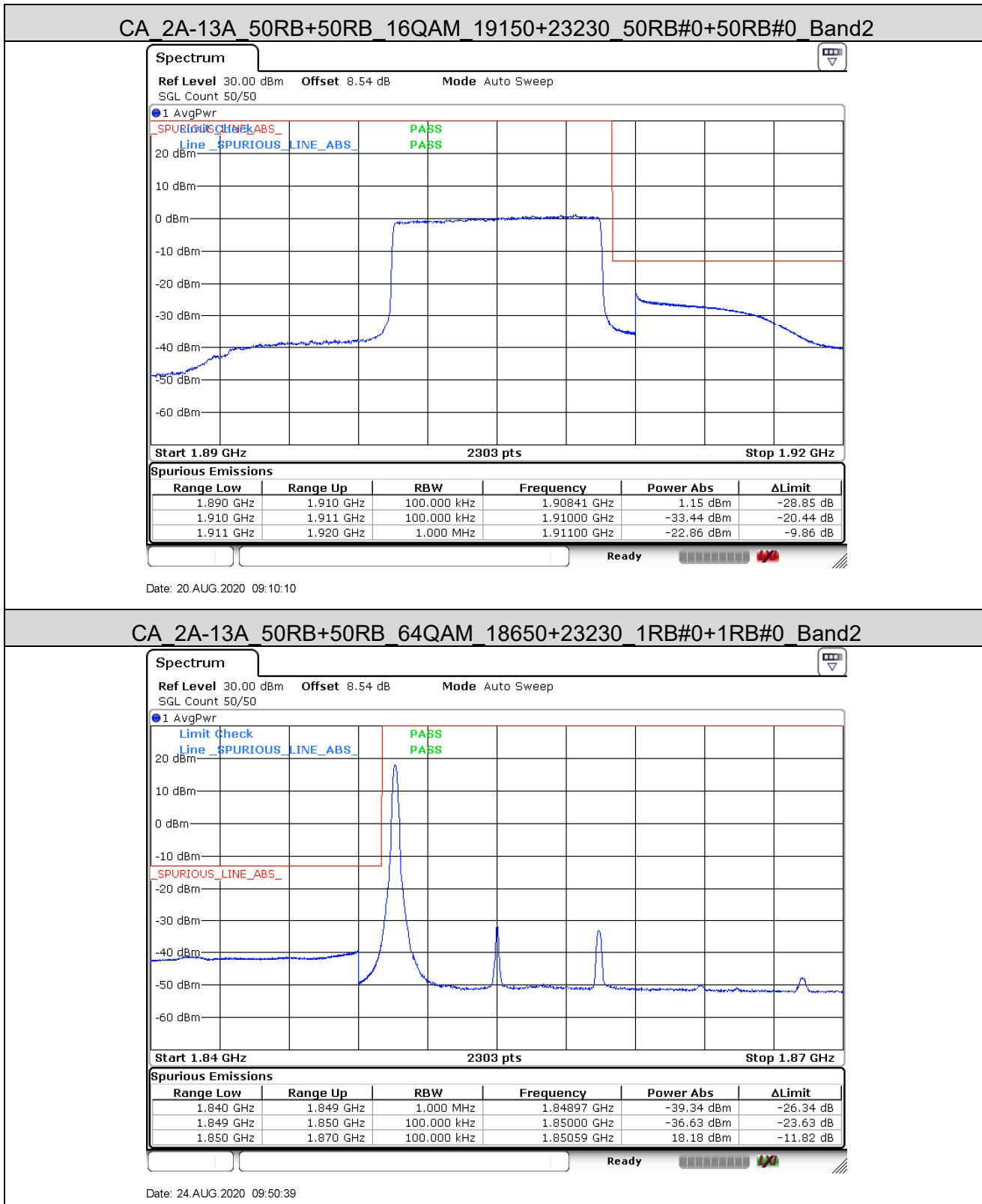




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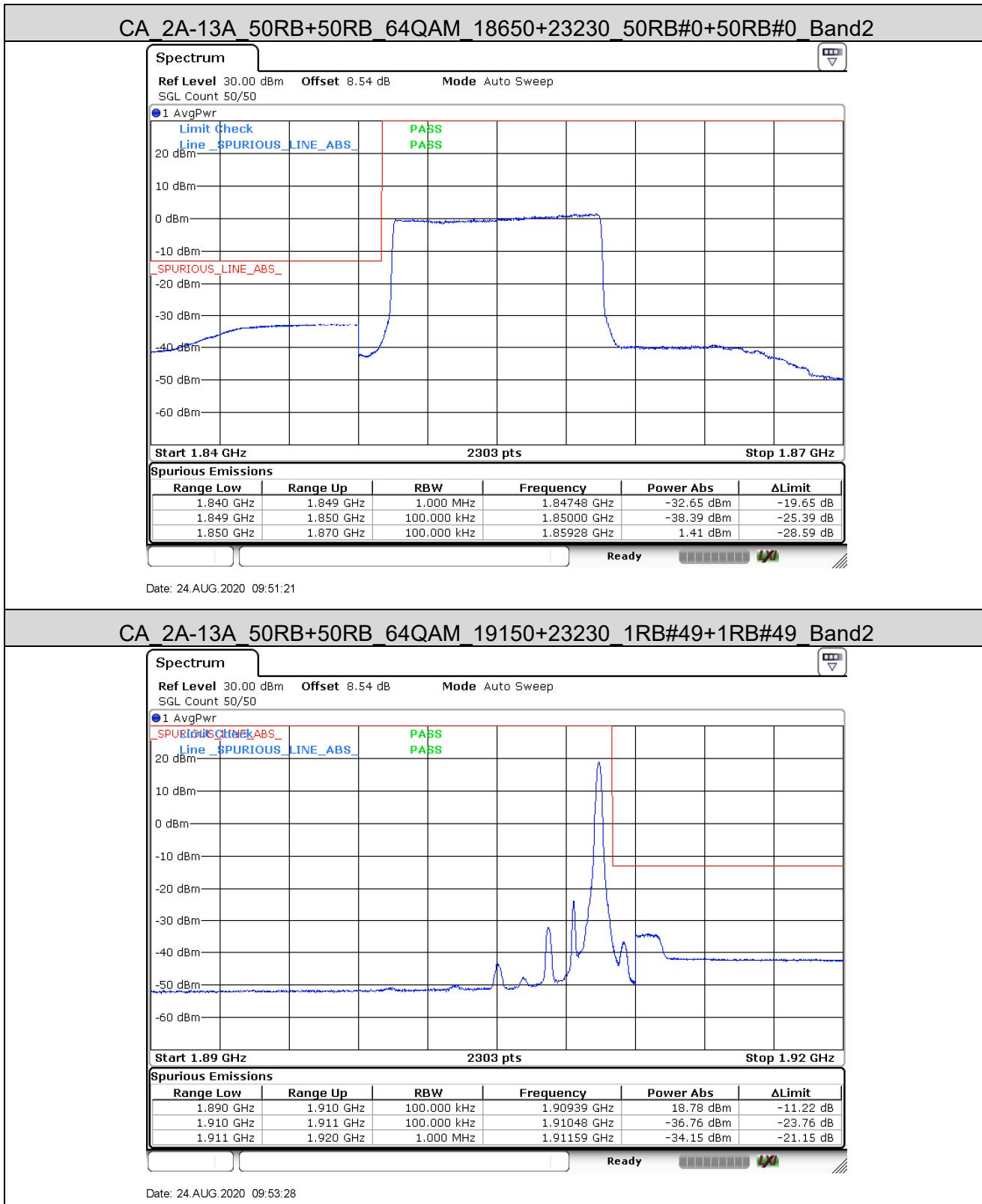




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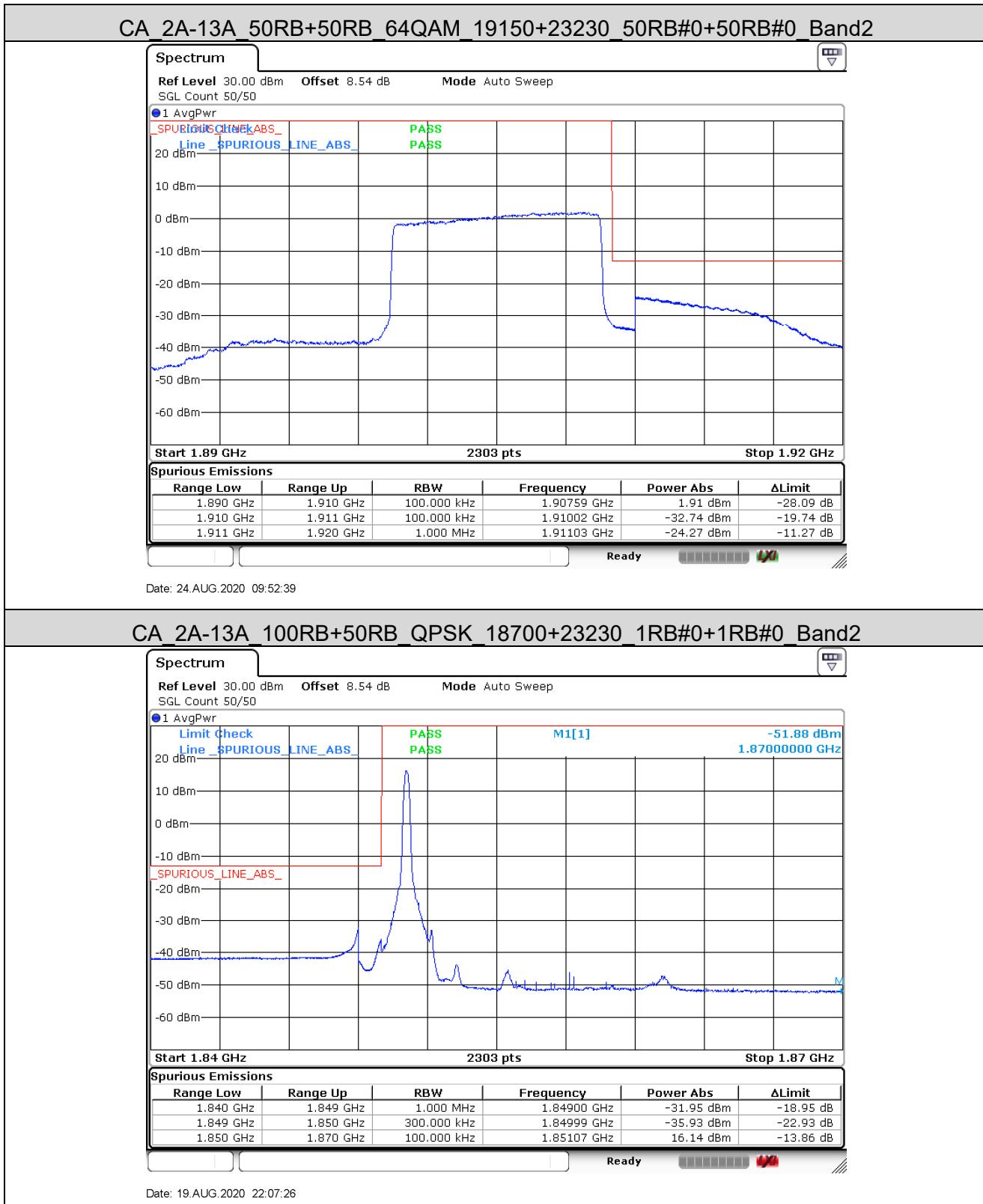




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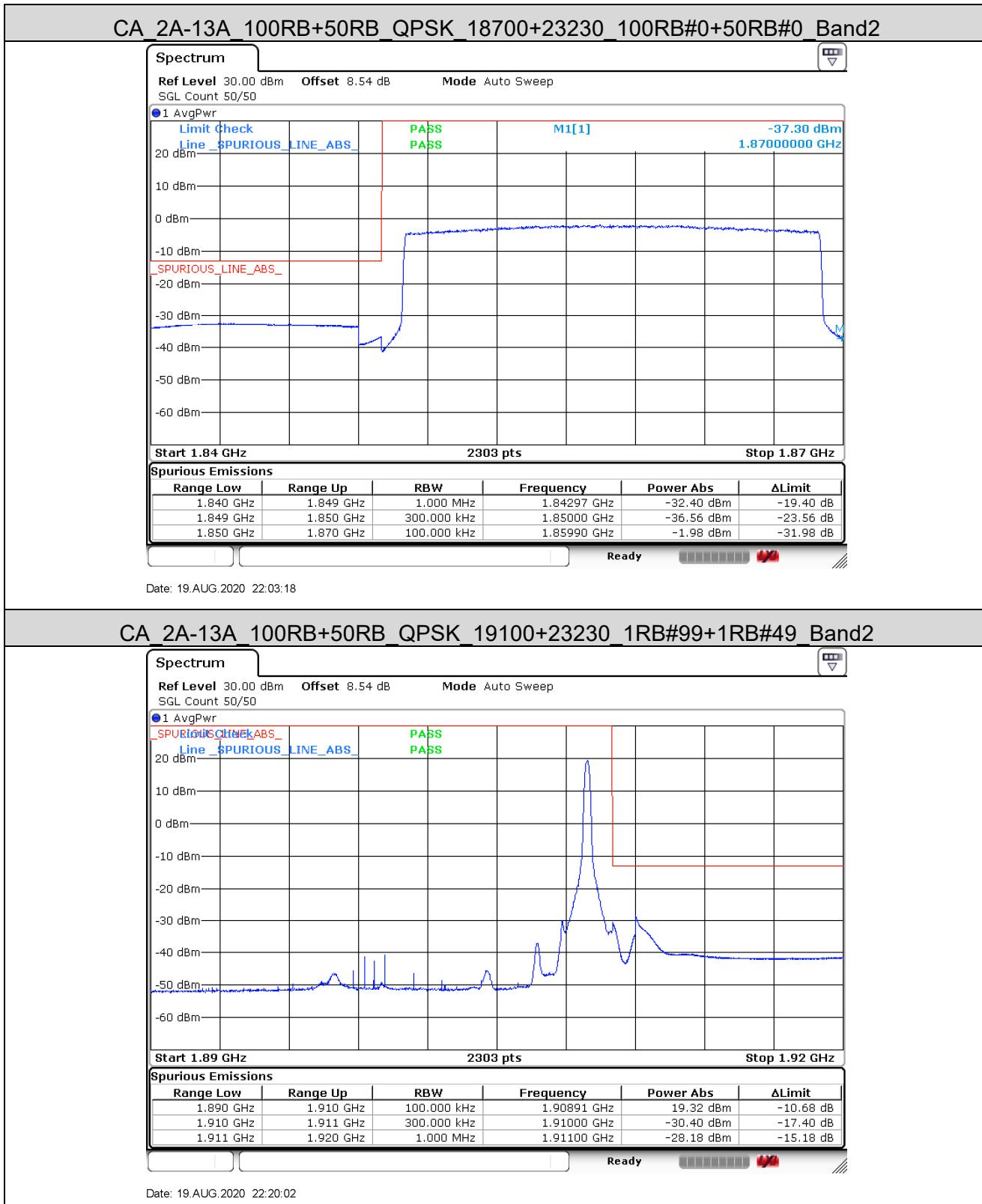




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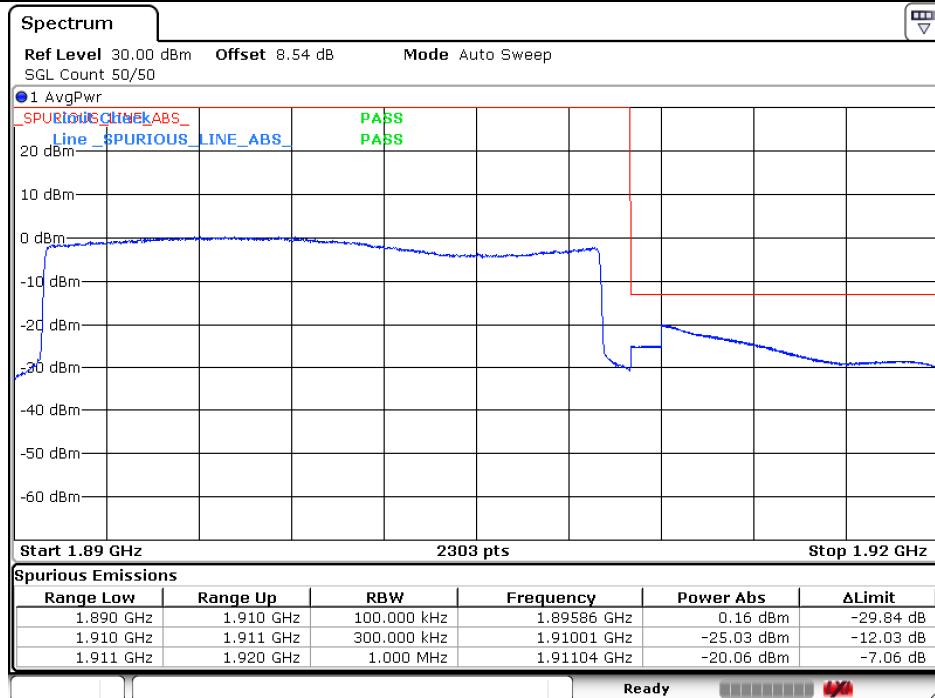


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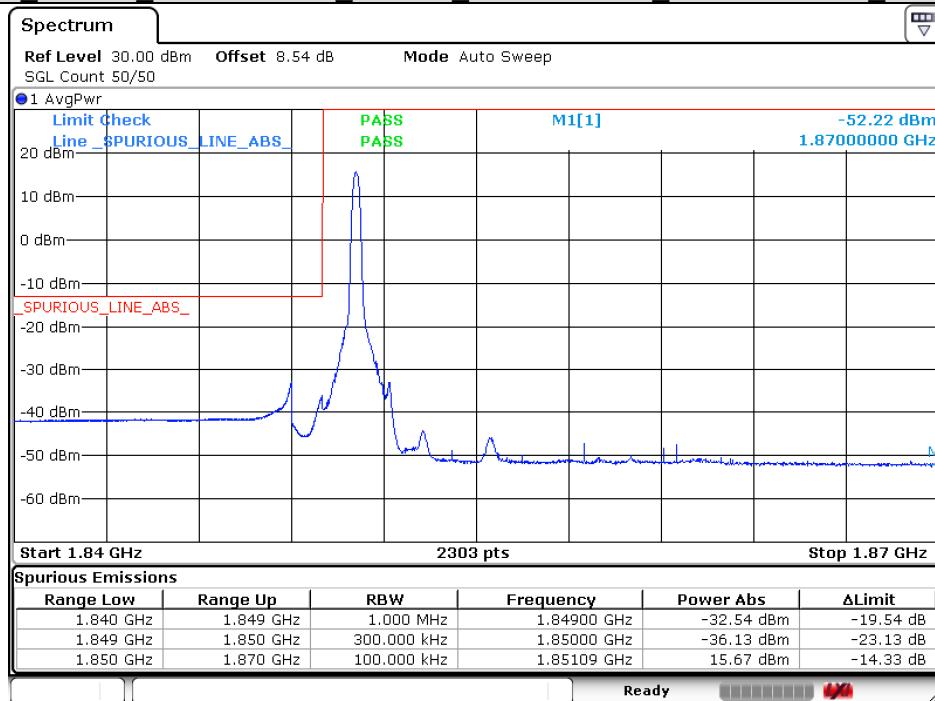


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Date: 19.AUG.2020 22:21:08

CA 2A-13A 100RB+50RB 16QAM 18700+23230 1RB#0+1RB#0 Band2



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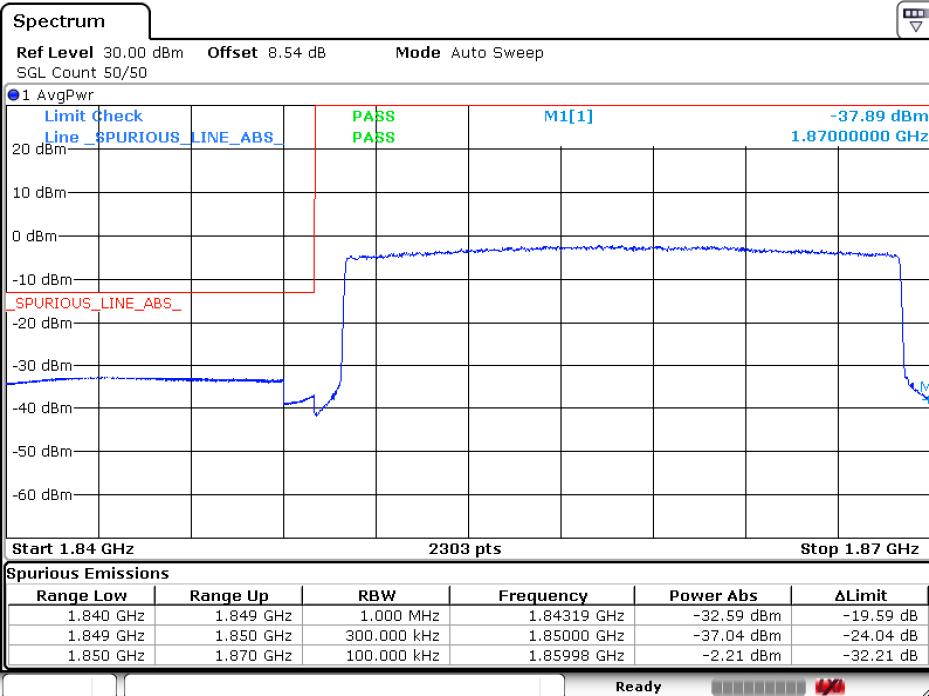


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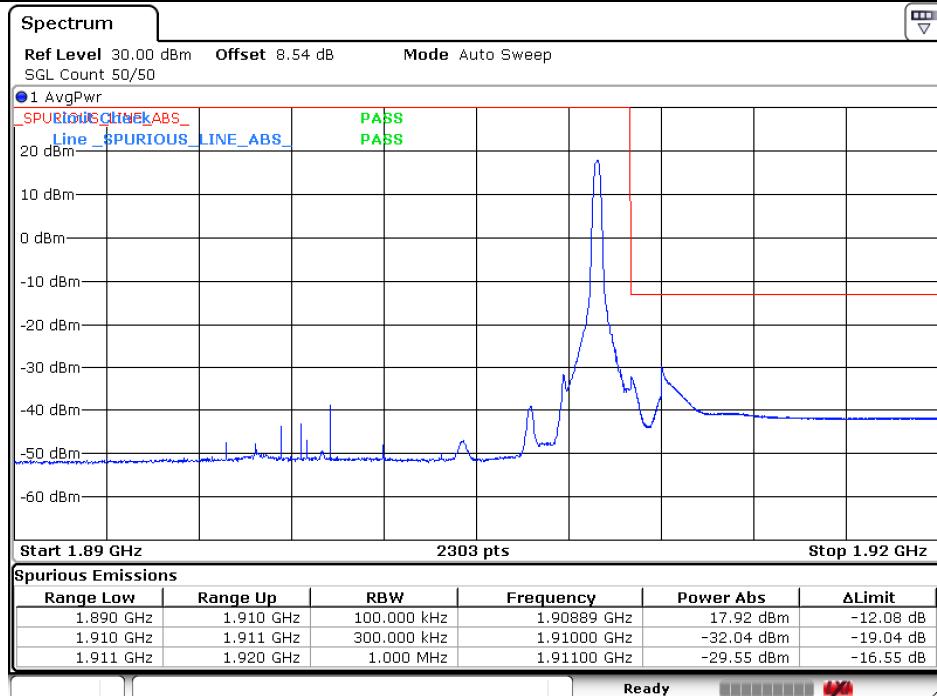


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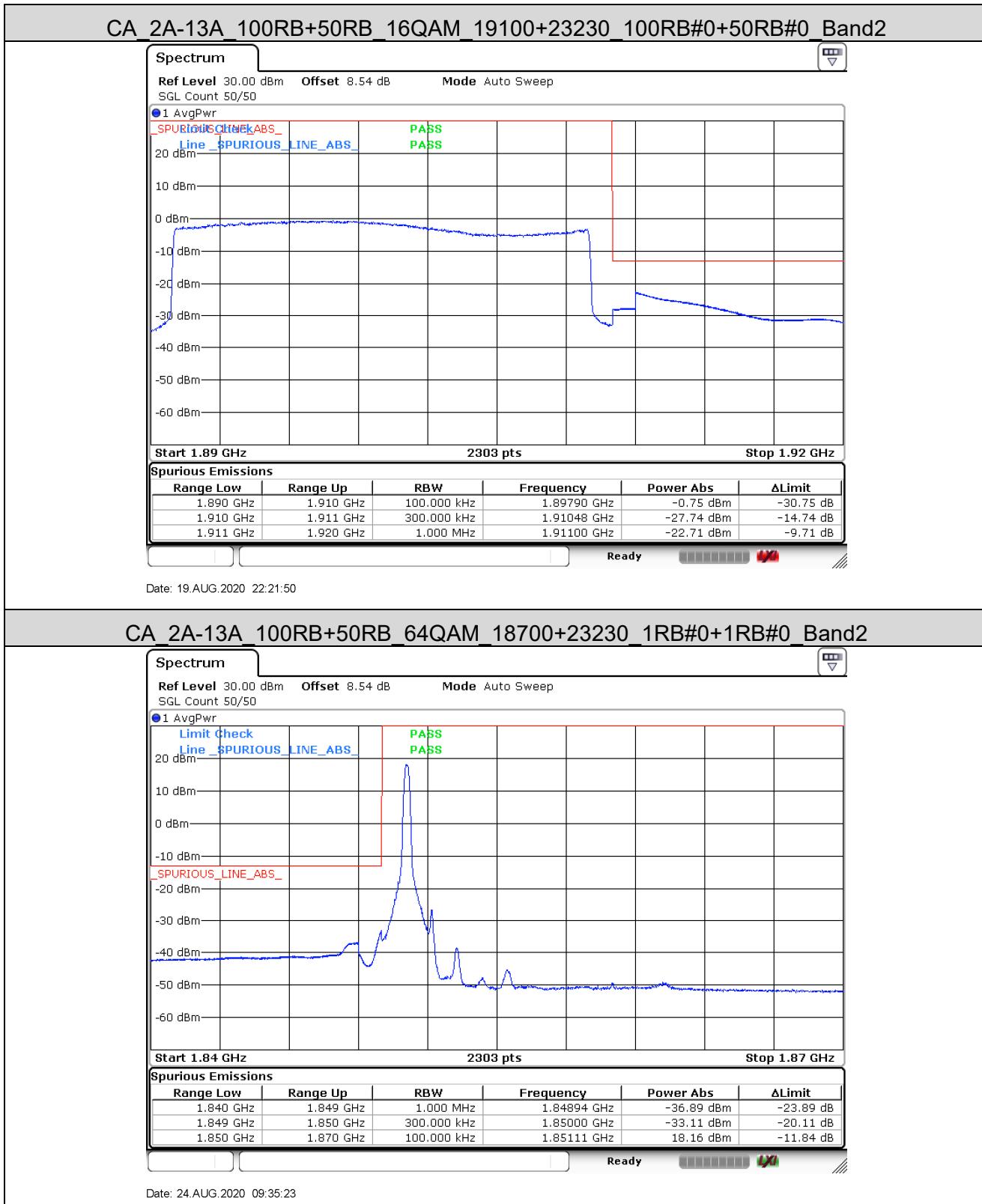
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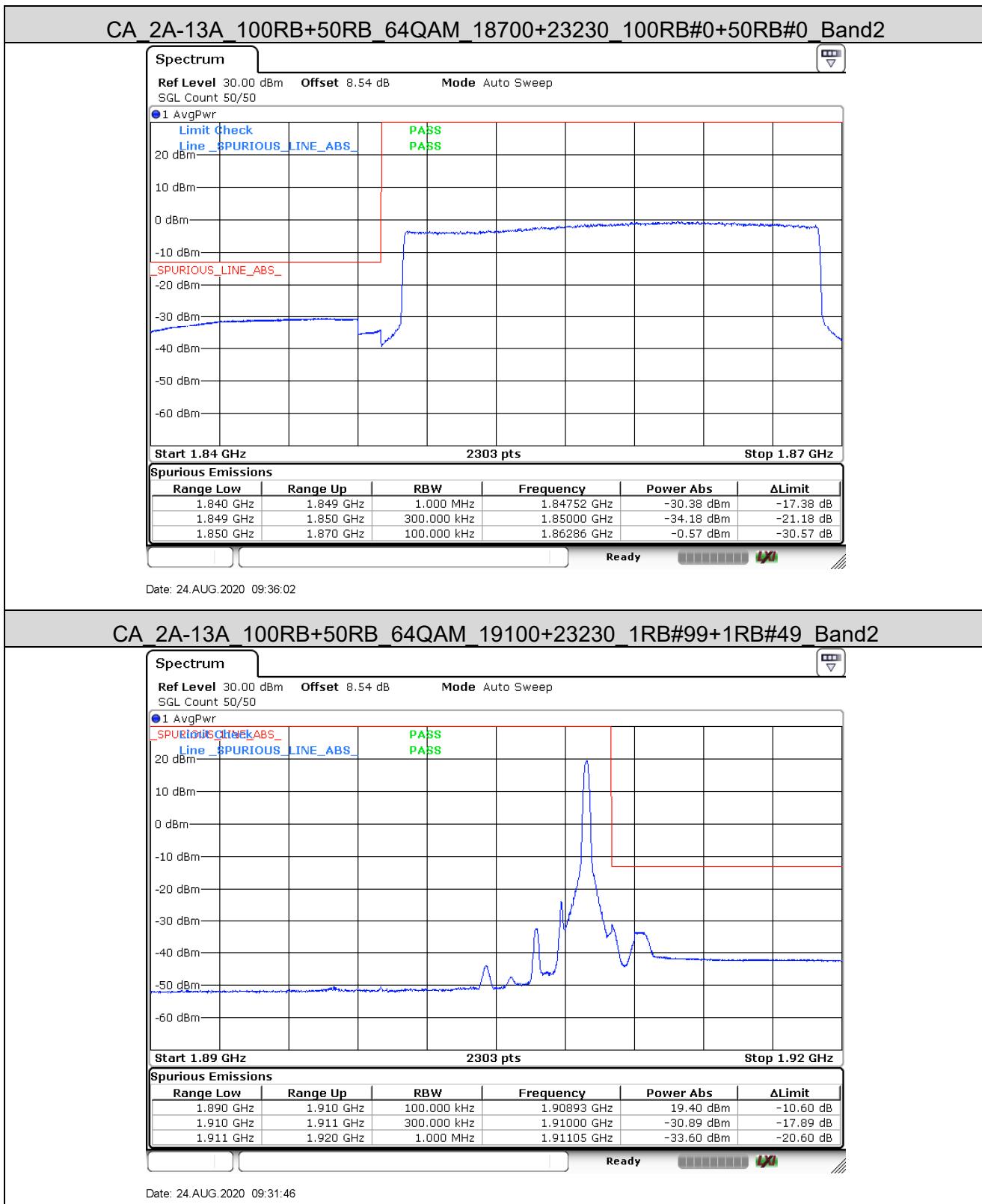
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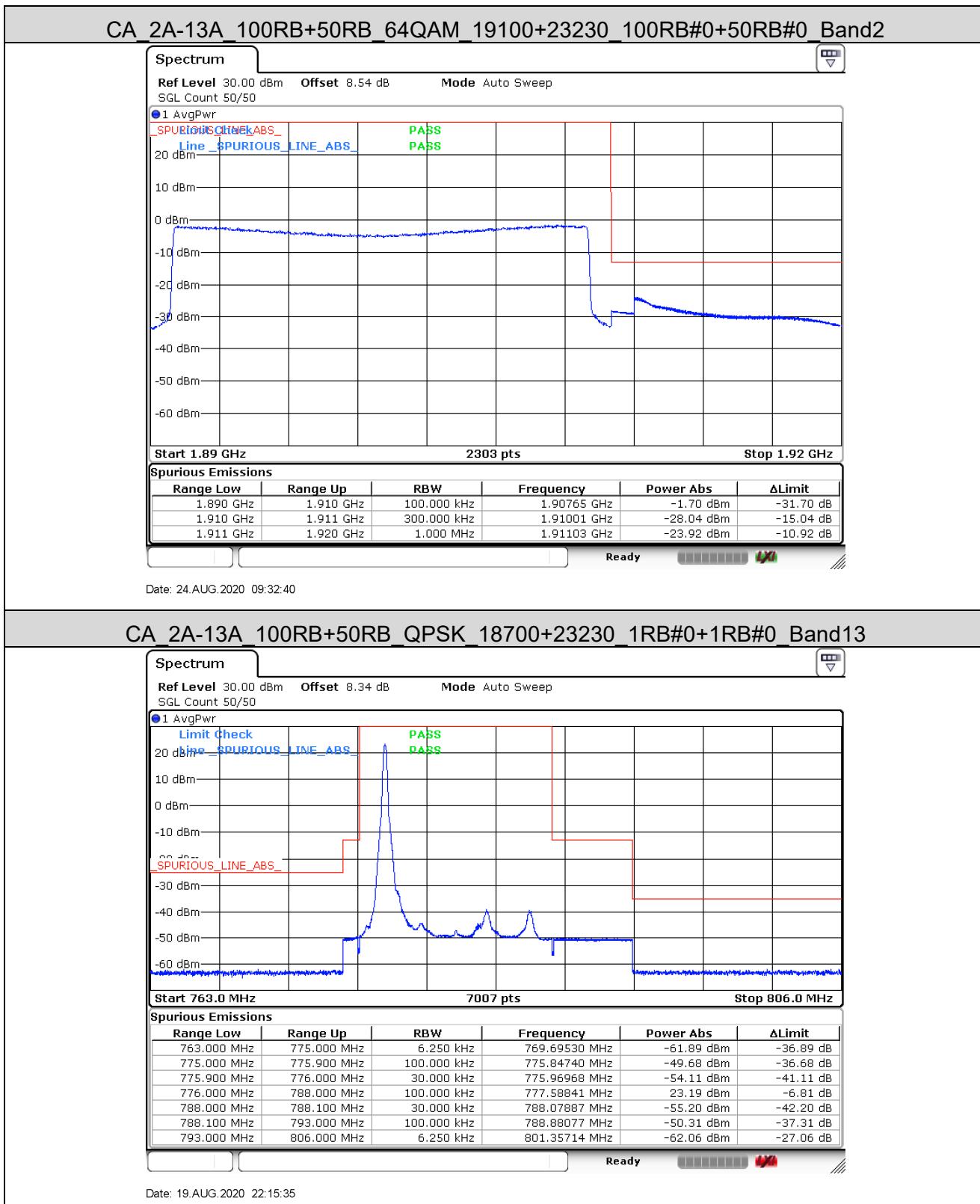




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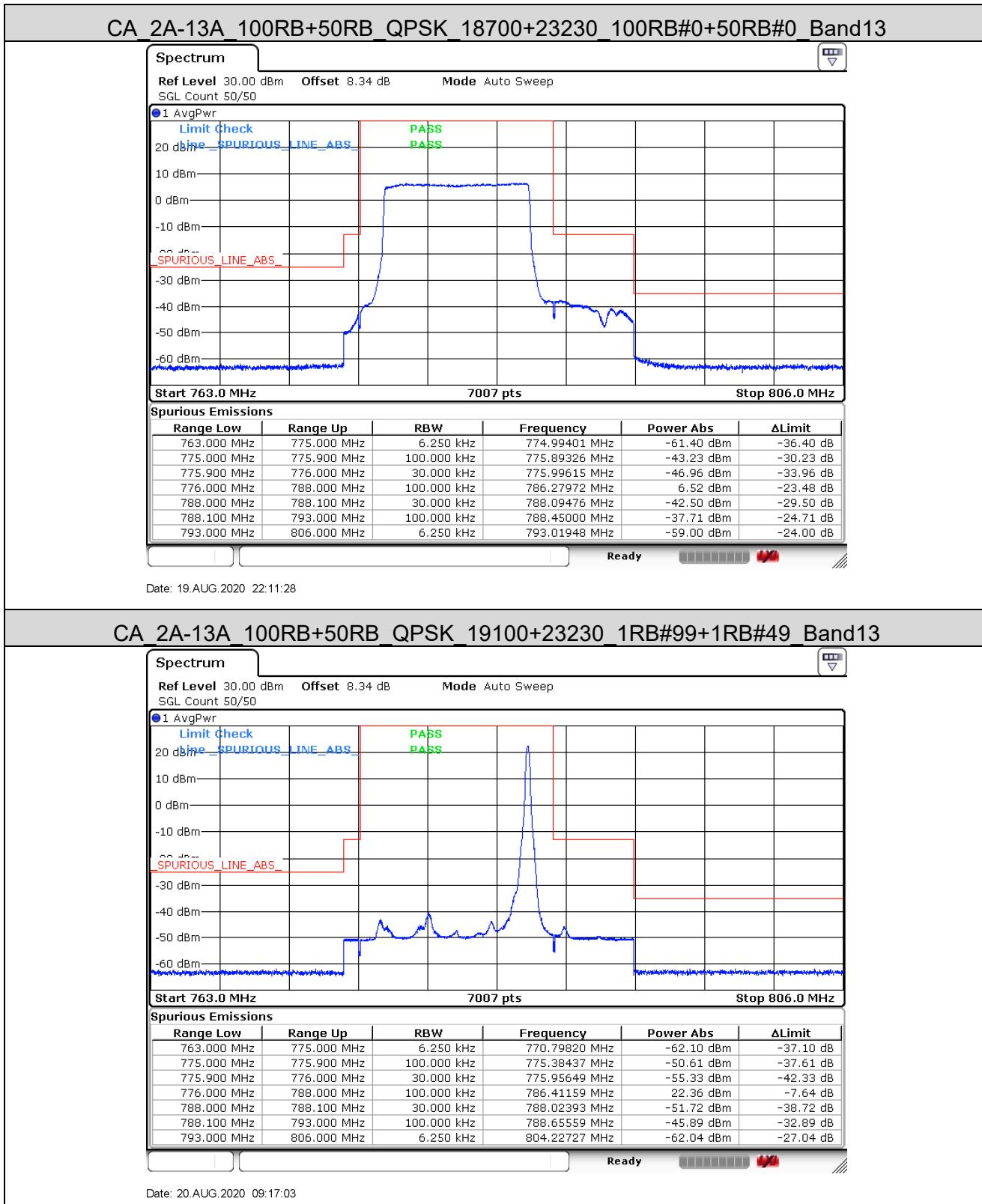




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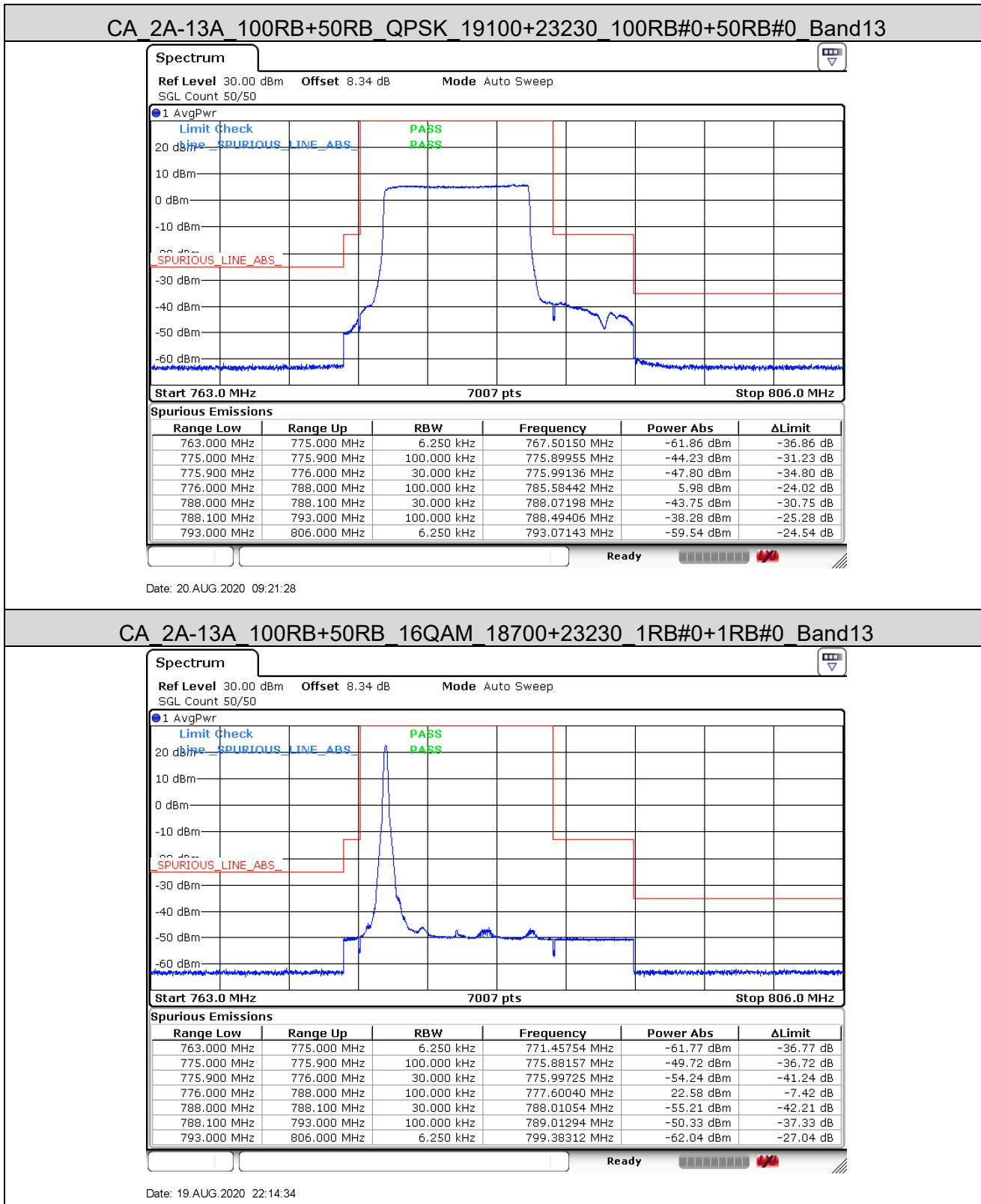


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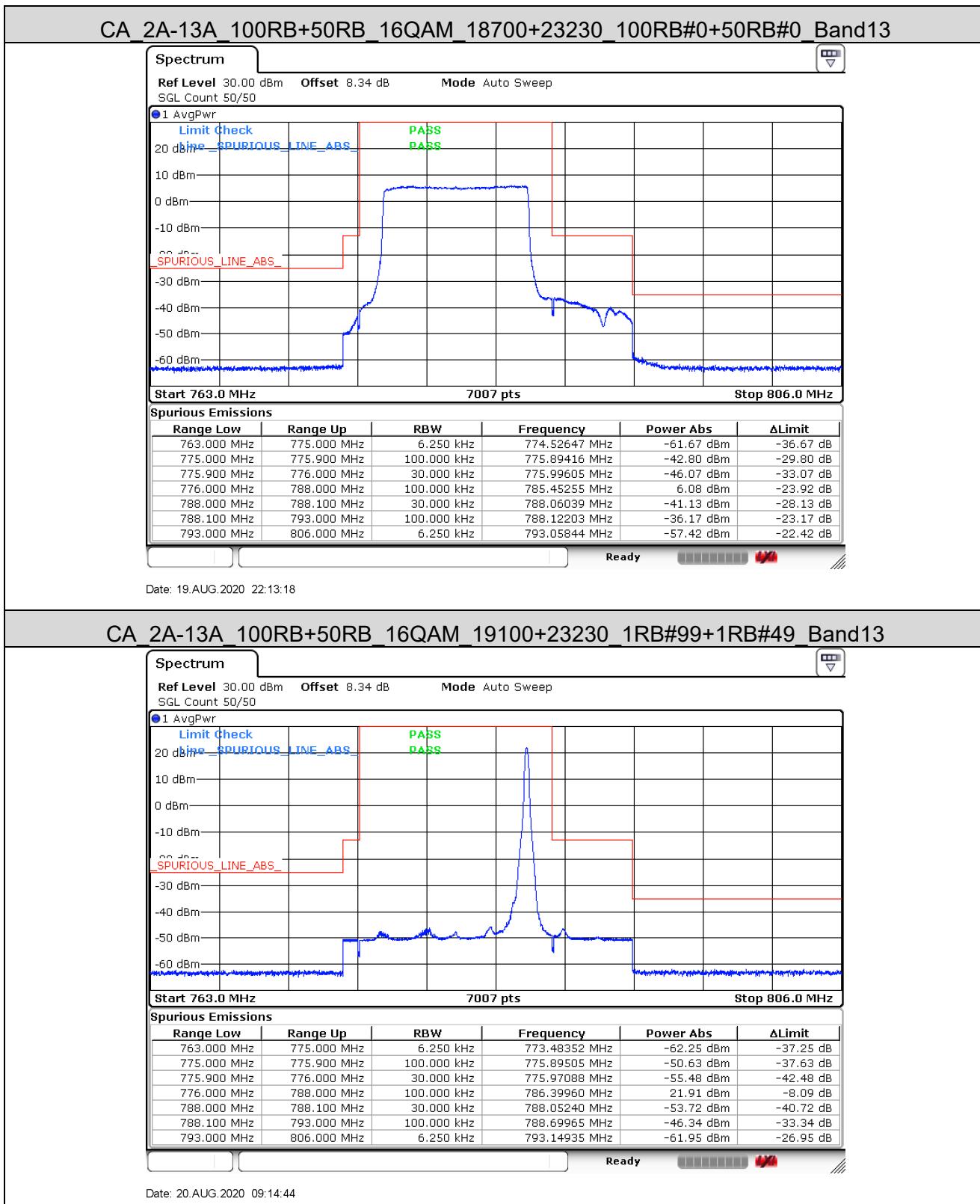
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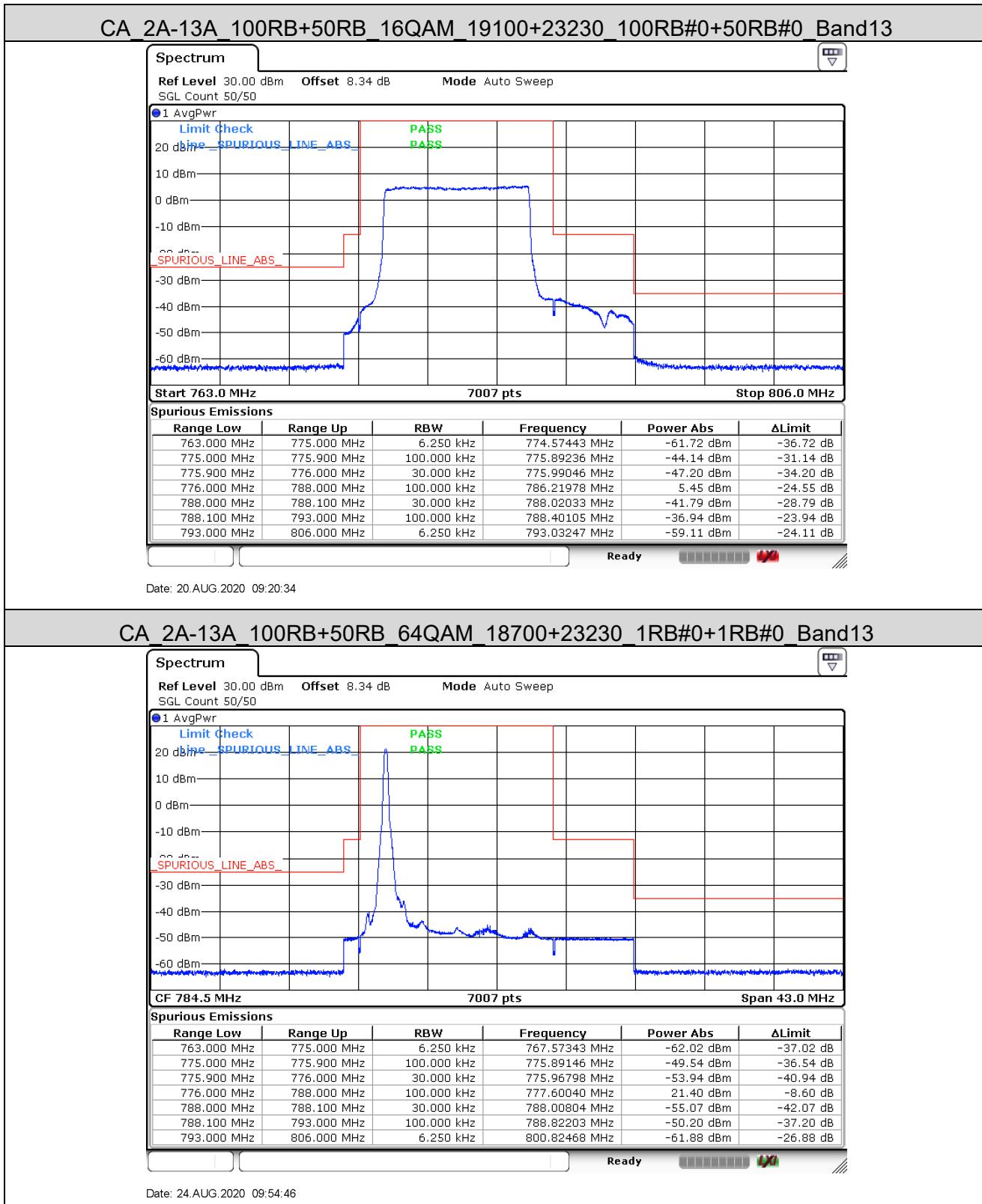




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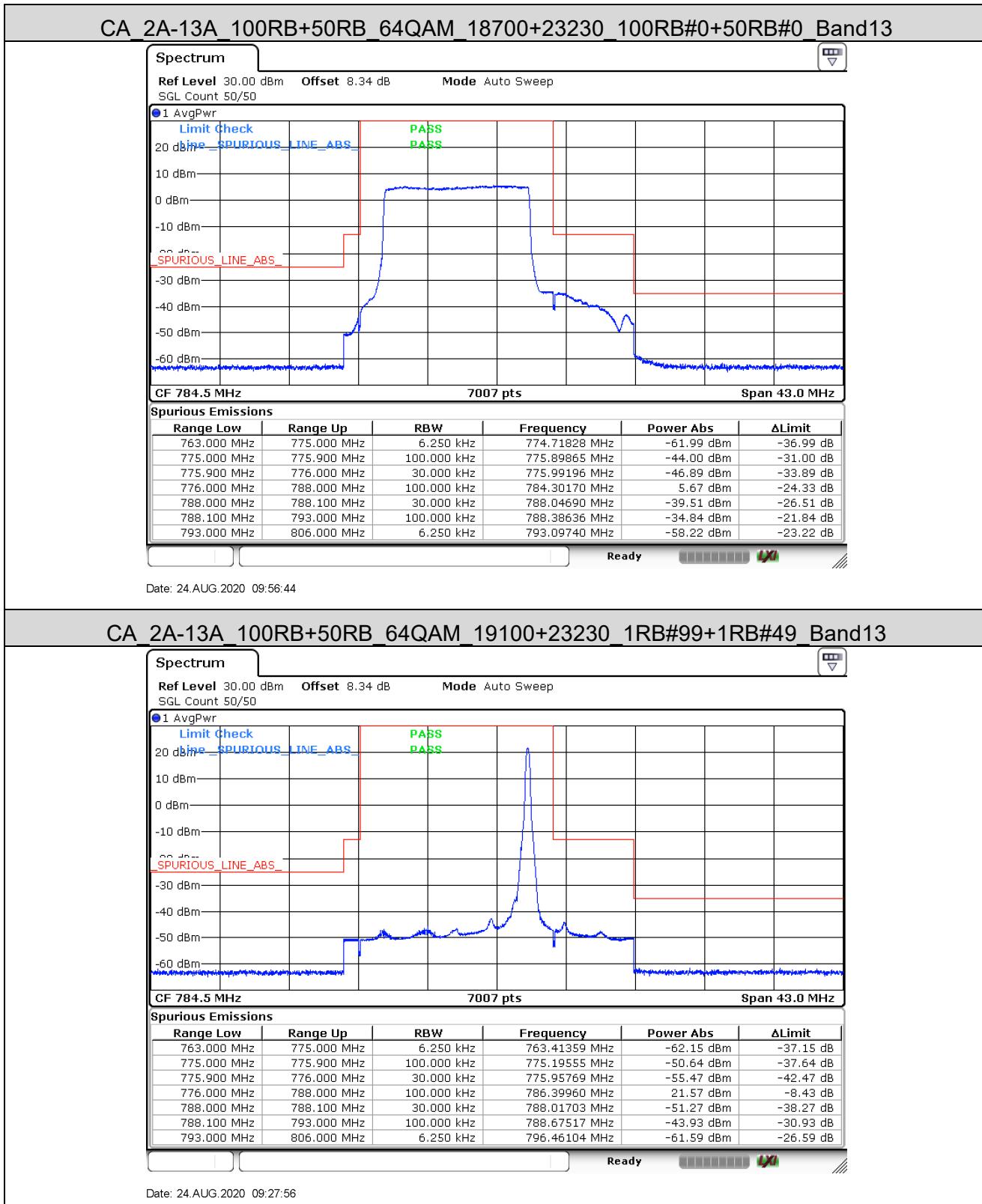




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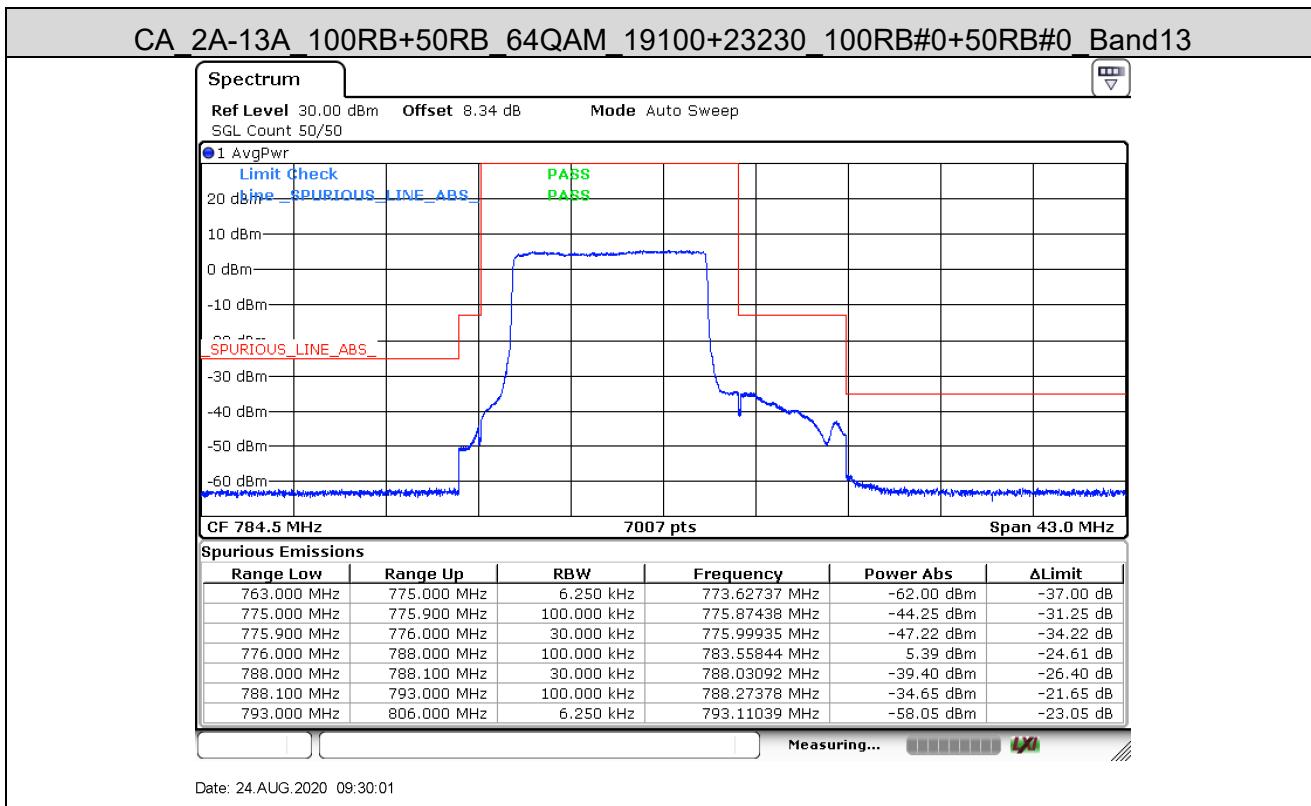




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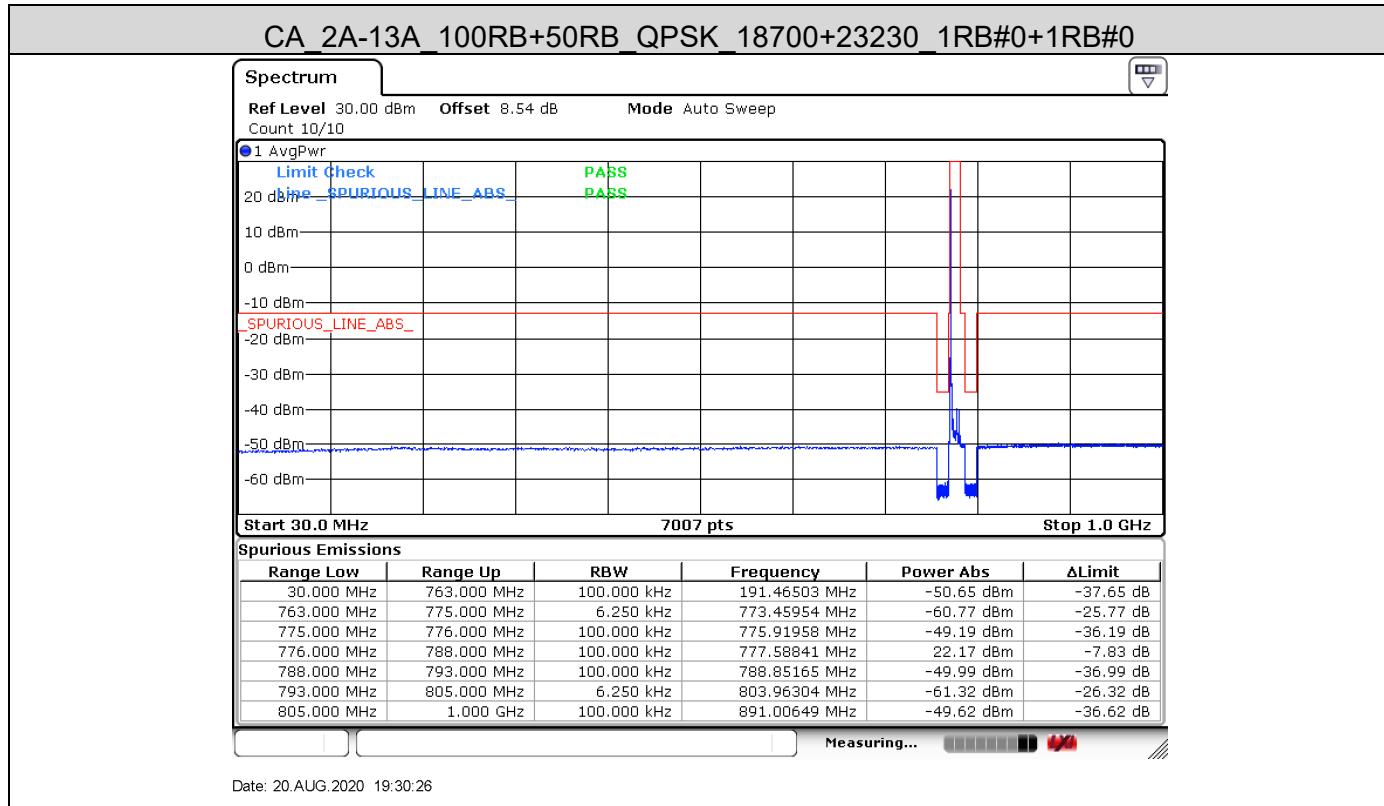
3 Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE Band CA_2A-13A



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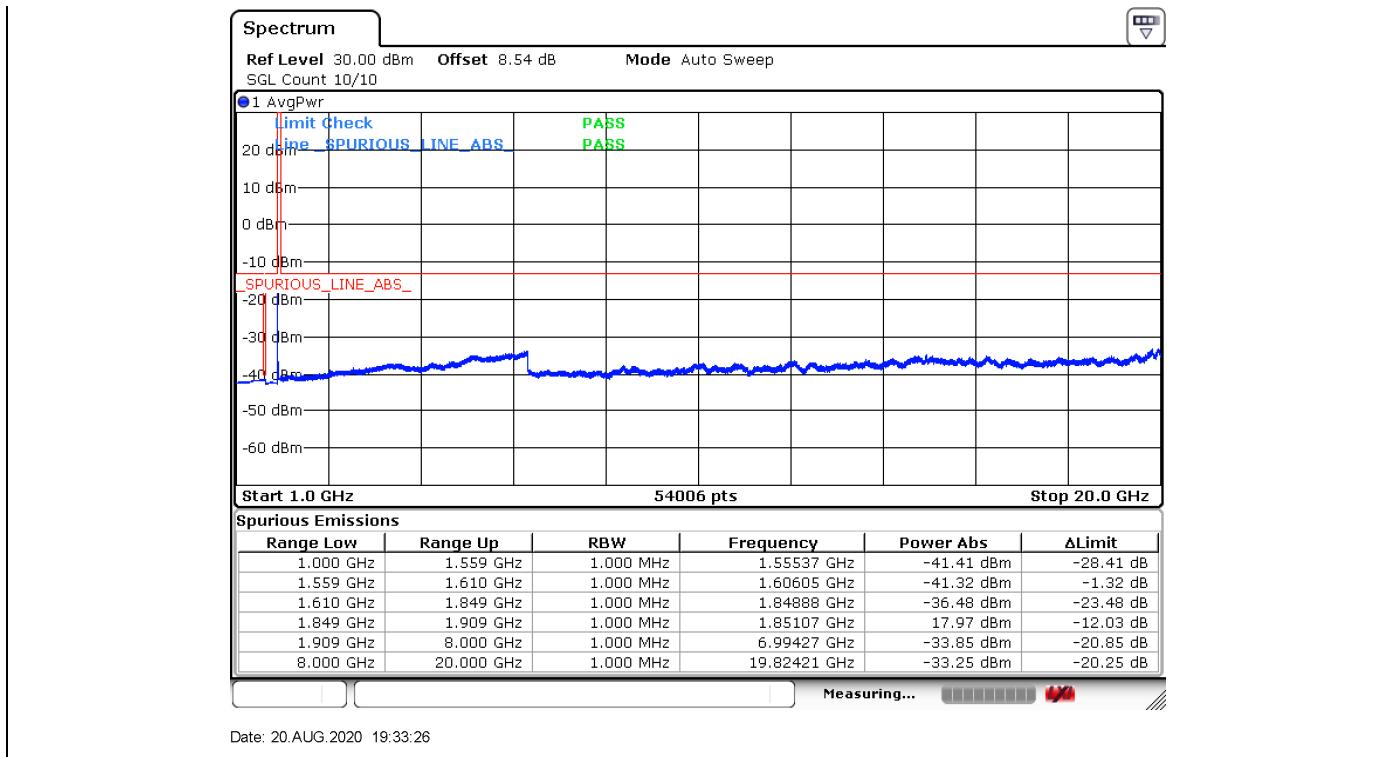
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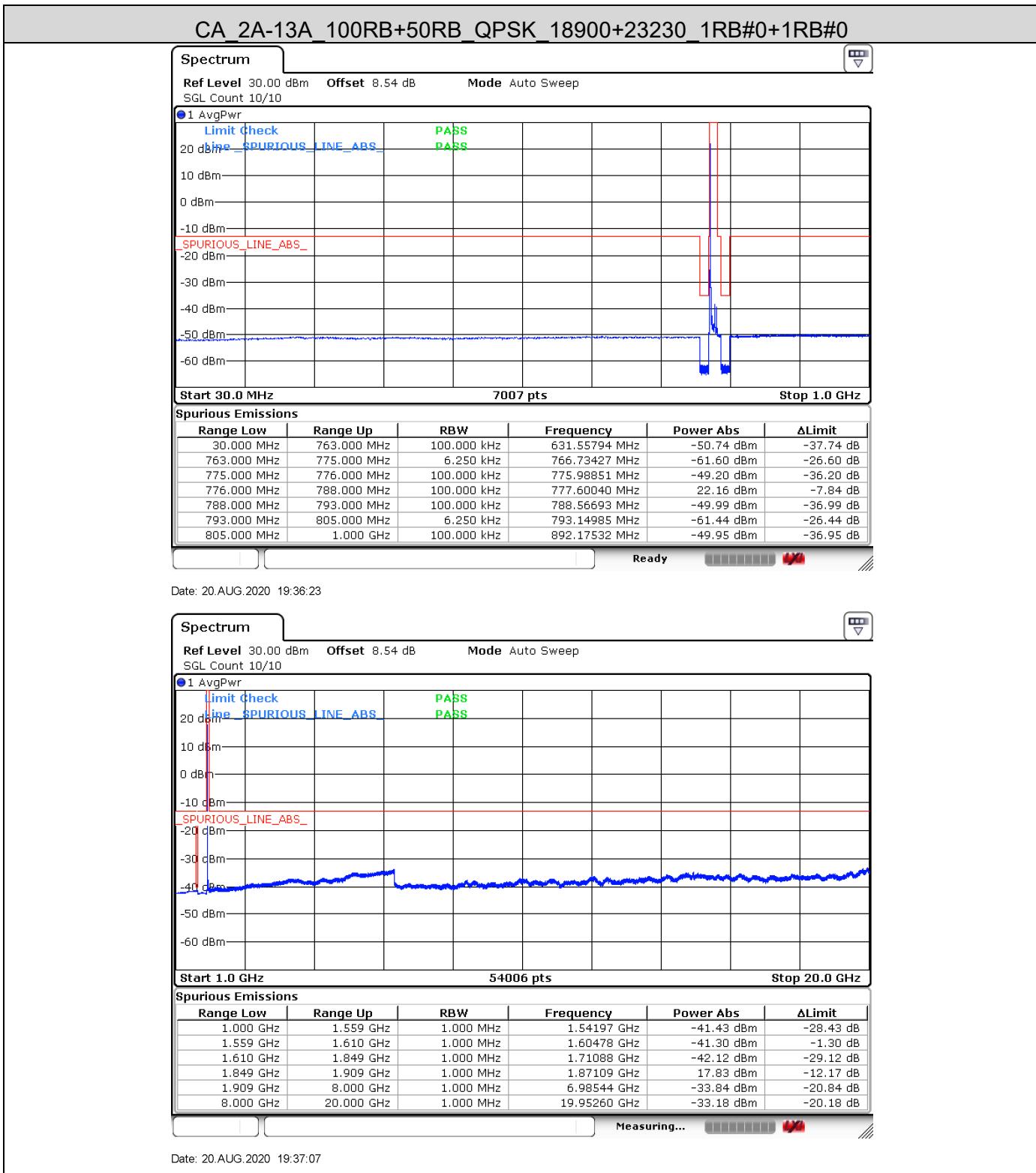
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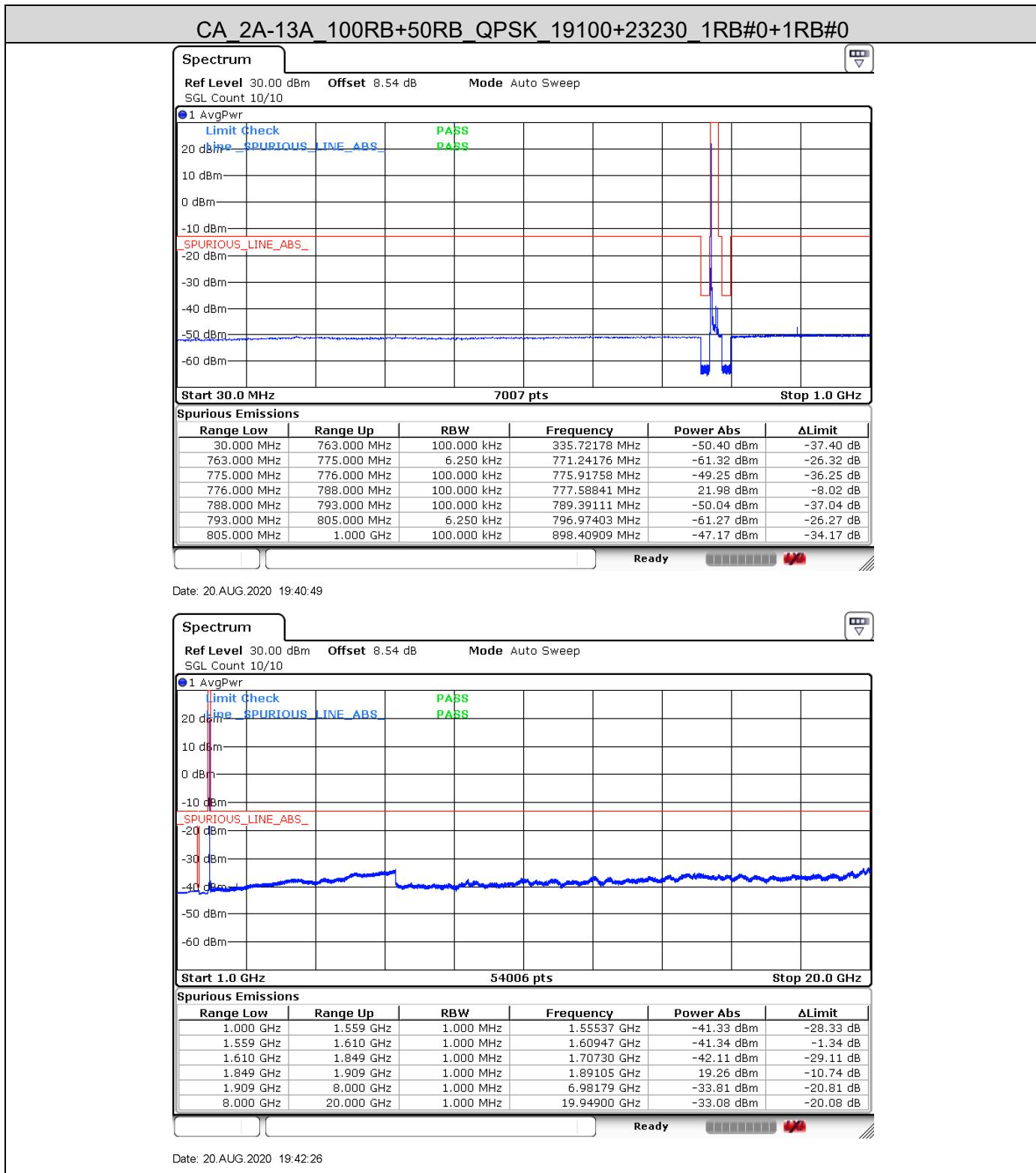


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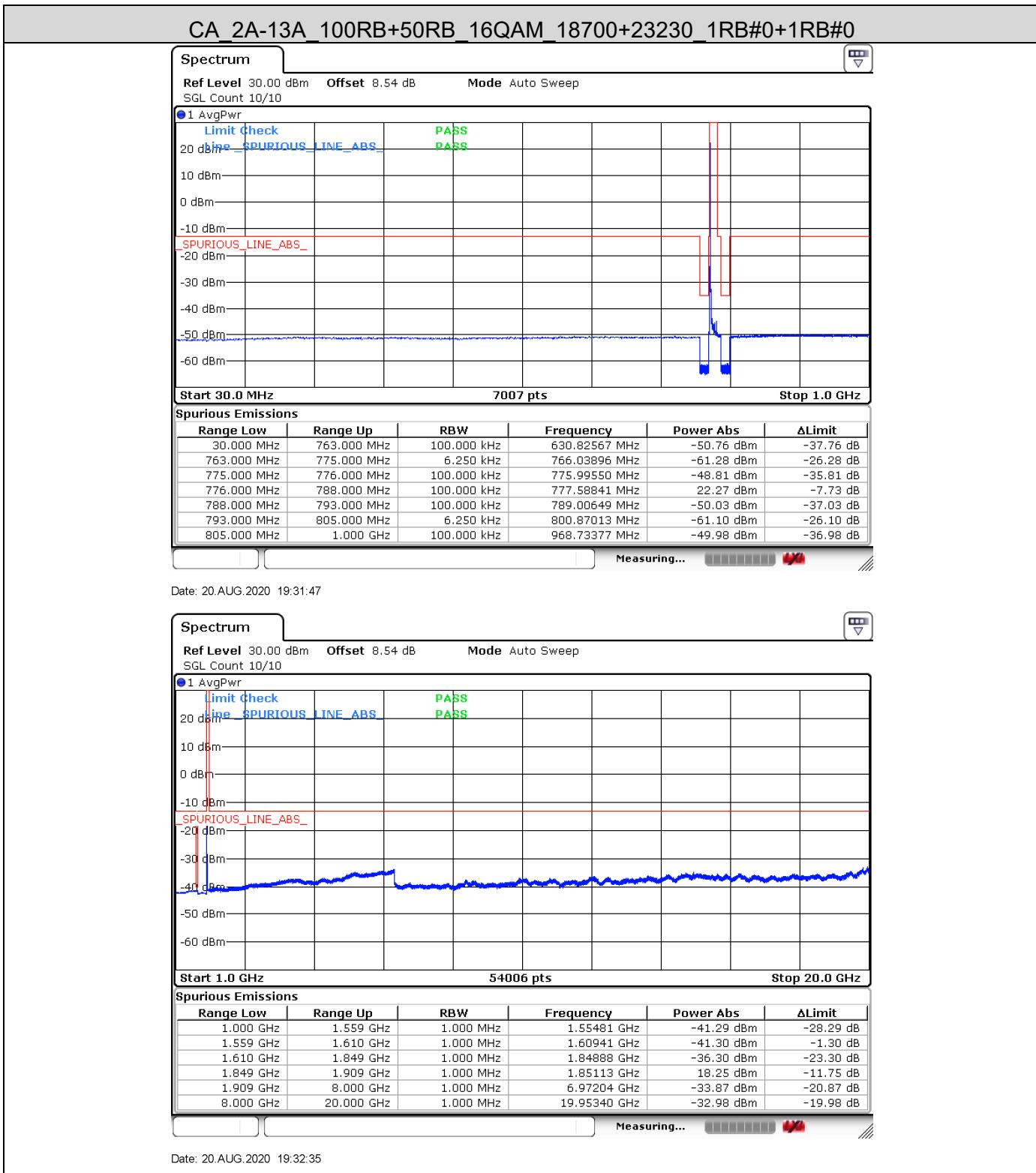
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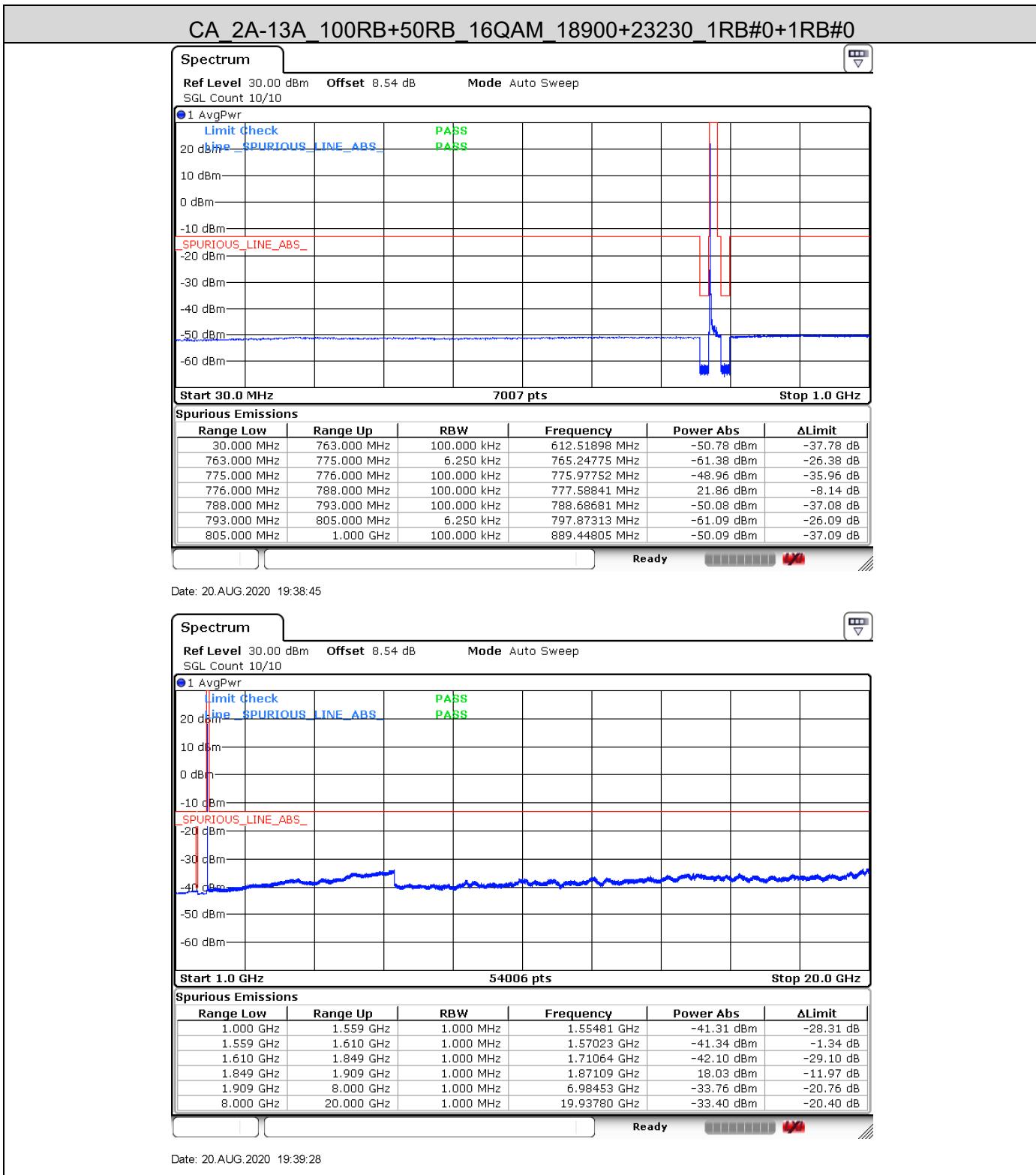


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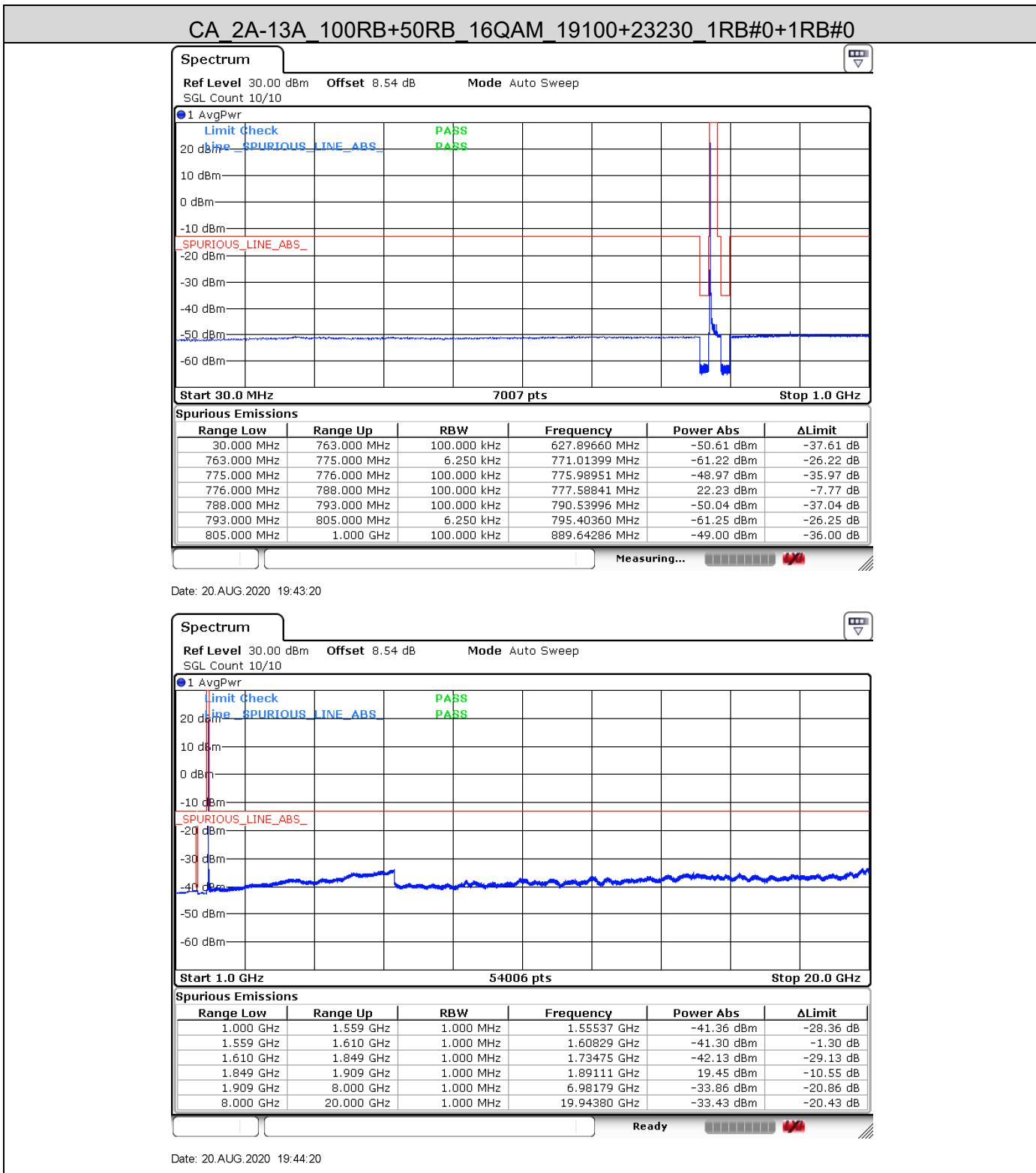


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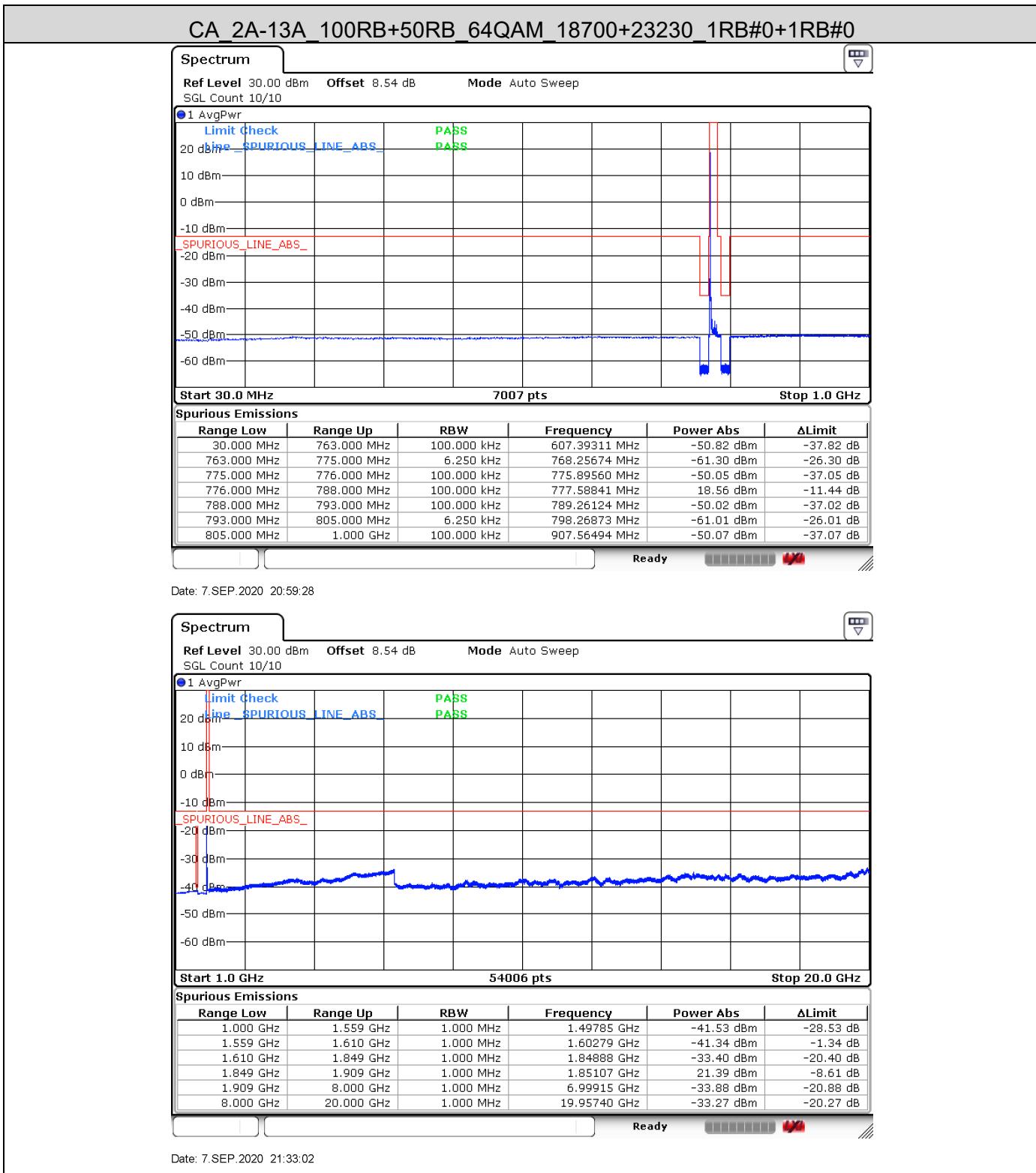


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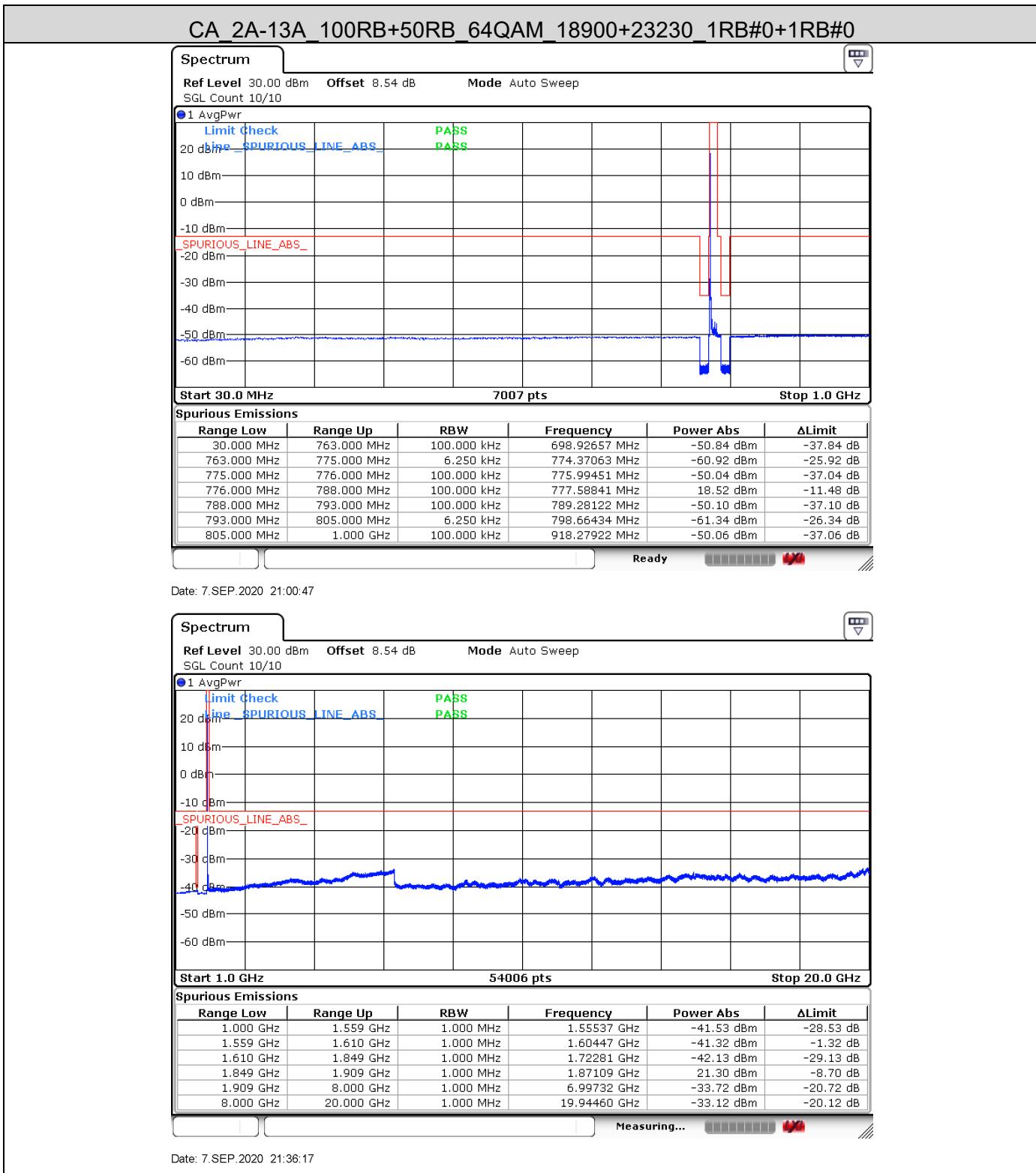
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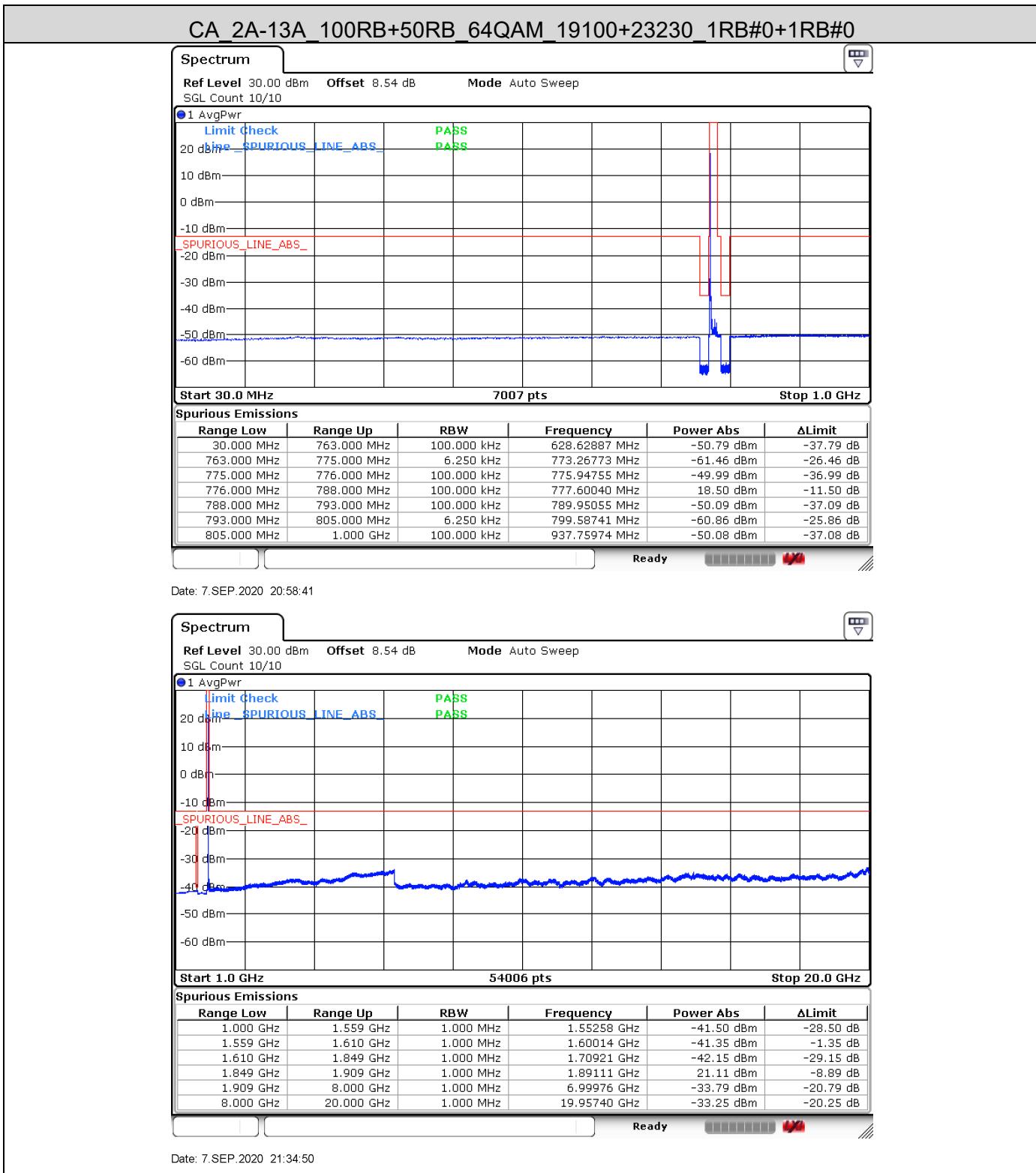


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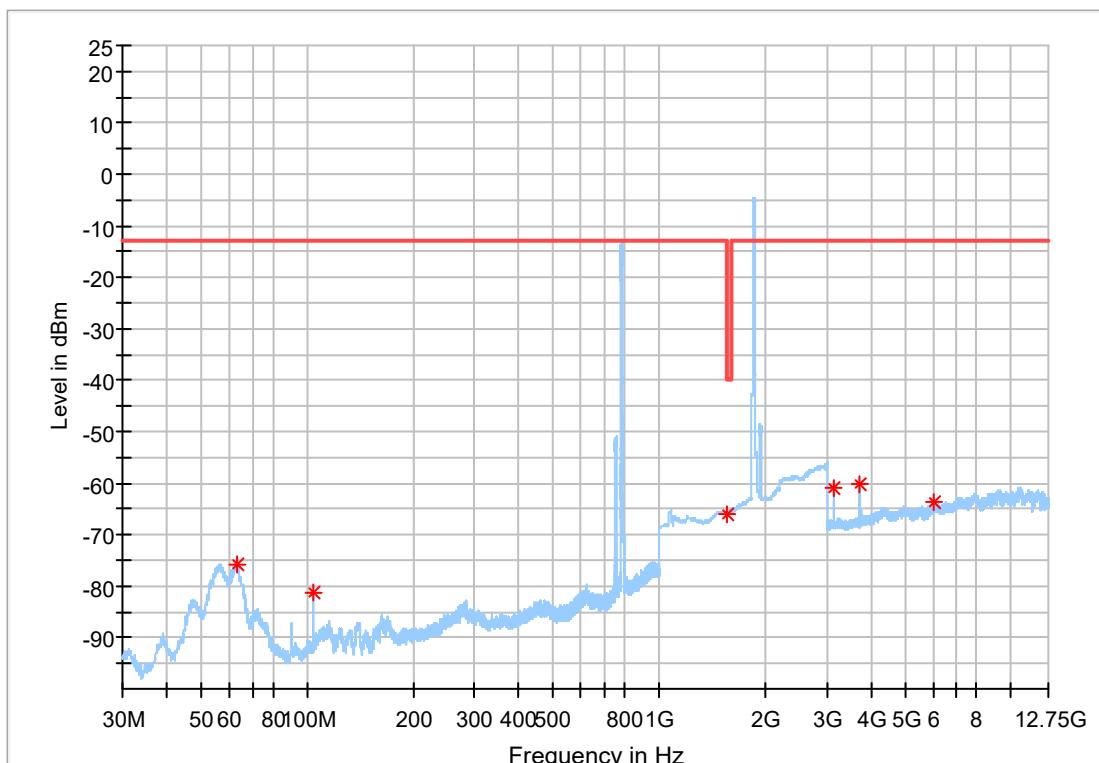
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4 Field Strength of Spurious Radiation

4.1 Test Mode =LTE/TM1 20&10 MHz_Ant Down

4.2 Test Channel = LCH_Horizontal

Full Spectrum



Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.500000	-75.60	-13.00	62.60	---	---	200.0	H	0.0	-96.2
104.300000	-81.14	-13.00	68.14	---	---	200.0	H	301.0	-109.6
1560.500000	-65.86	-40.00	25.86	---	---	200.0	H	224.0	-88.1
3128.050000	-60.89	-13.00	47.89	---	---	200.0	H	45.0	-105.7
3719.875000	-60.30	-13.00	47.30	---	---	200.0	H	33.0	-104.7
6057.275000	-63.63	-13.00	50.63	---	---	200.0	H	247.0	-100.1

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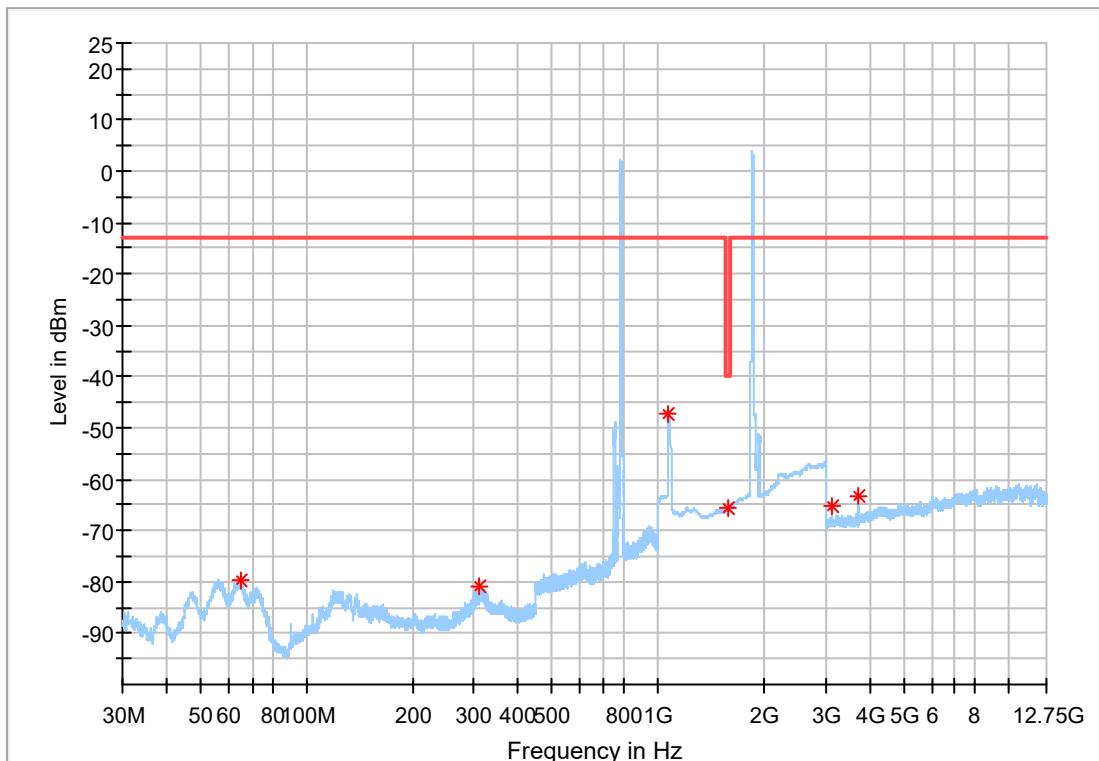


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4.3 Test Channel = LCH_Verical

Full Spectrum



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
65.000000	-79.66	-13.00	66.66	---	---	200.0	V	264.0	-99.8
309.400000	-80.91	-13.00	67.91	---	---	200.0	V	264.0	-102.1
1072.500000	-47.18	-13.00	34.18	---	---	200.0	V	82.0	-90.6
1579.500000	-65.66	-40.00	25.66	---	---	200.0	V	162.0	-88.3
3127.725000	-65.30	-13.00	52.30	---	---	200.0	V	0.0	-105.6
3719.875000	-63.47	-13.00	50.47	---	---	200.0	V	0.0	-104.6

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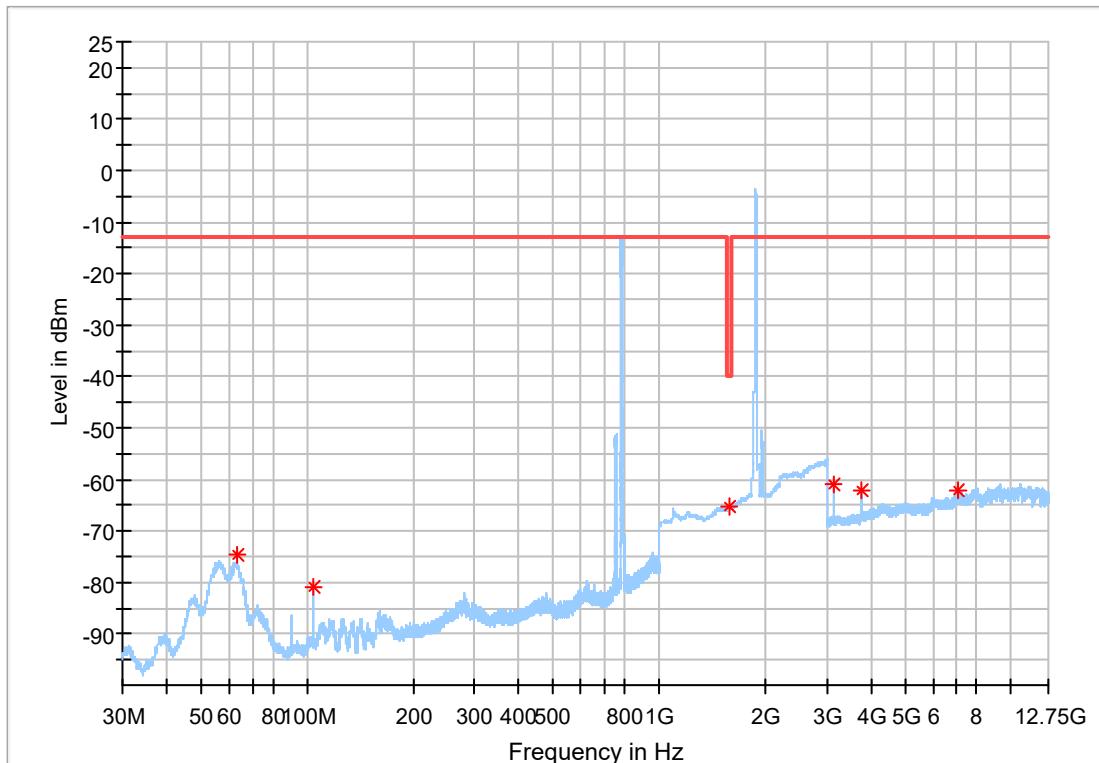


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4.4 Test Channel = MCH_Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.300000	-74.55	-13.00	61.55	---	---	200.0	H	0.0	-96.0
104.250000	-80.98	-13.00	67.98	---	---	200.0	H	119.0	-109.6
1577.000000	-65.38	-40.00	25.38	---	---	200.0	H	144.0	-88.1
3127.725000	-61.03	-13.00	48.03	---	---	200.0	H	32.0	-105.7
3748.475000	-62.08	-13.00	49.08	---	---	200.0	H	32.0	-104.6
7055.025000	-62.12	-13.00	49.12	---	---	200.0	H	188.0	-99.0

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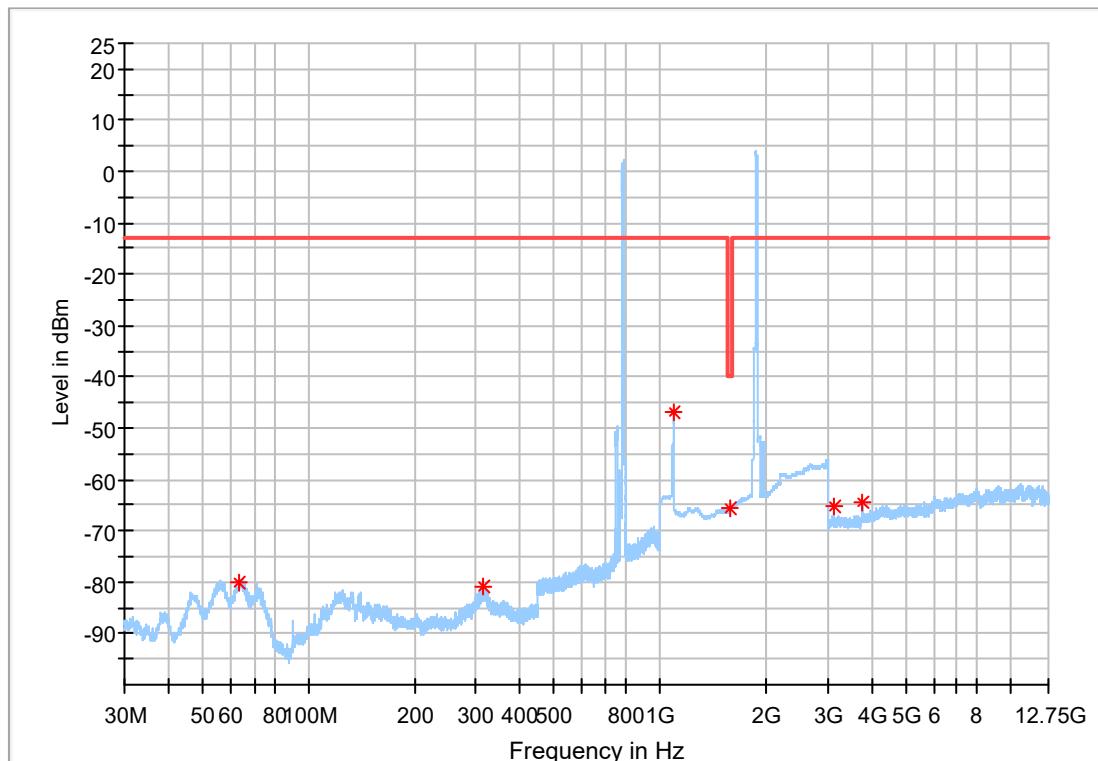


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4.5 Test Channel = MCH_Verical

Full Spectrum



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.250000	-80.04	-13.00	67.04	---	---	200.0	V	31.0	-100.2
314.950000	-80.81	-13.00	67.81	---	---	200.0	V	225.0	-102.0
1093.500000	-47.05	-13.00	34.05	---	---	200.0	V	81.0	-90.2
1578.000000	-65.76	-40.00	25.76	---	---	200.0	V	92.0	-88.4
3127.725000	-65.05	-13.00	52.05	---	---	200.0	V	359.0	-105.6
3748.150000	-64.60	-13.00	51.60	---	---	200.0	V	9.0	-104.5

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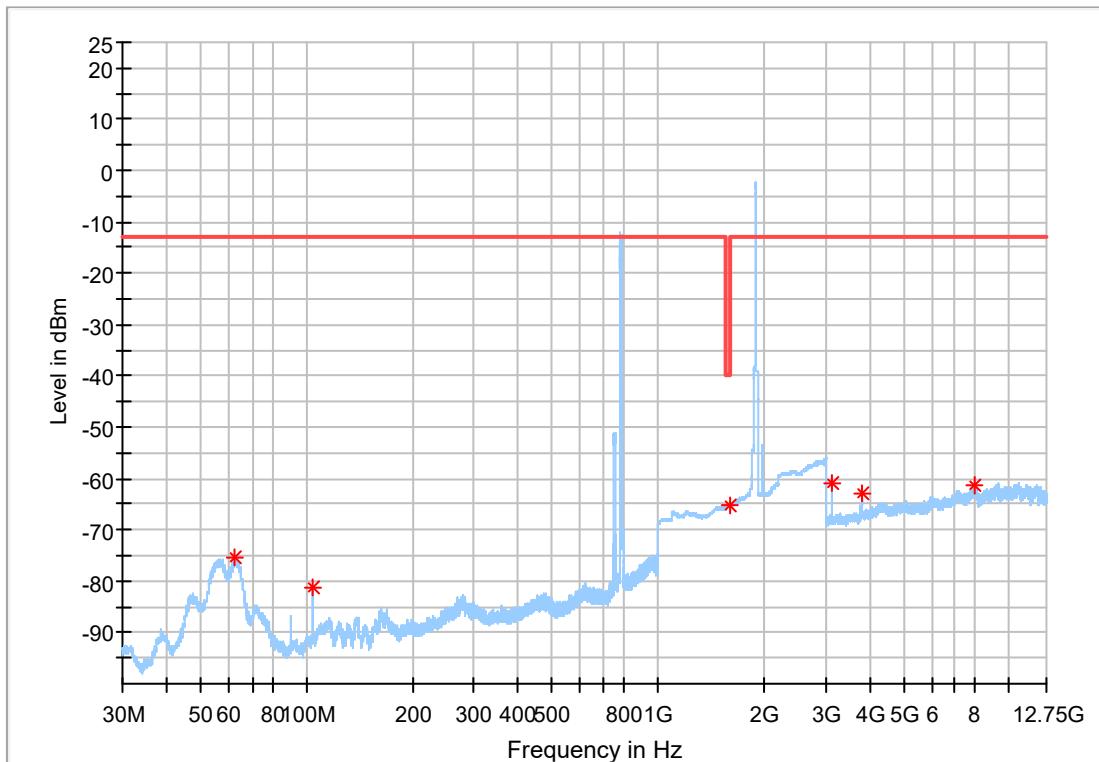
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4.6 Test Channel = HCH_Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.450000	-75.54	-13.00	62.54	---	---	200.0	H	179.0	-95.1
104.300000	-81.34	-13.00	68.34	---	---	200.0	H	13.0	-109.6
1594.000000	-65.36	-40.00	25.36	---	---	200.0	H	0.0	-88.0
3127.725000	-61.04	-13.00	48.04	---	---	200.0	H	55.0	-105.7
3789.425000	-63.03	-13.00	50.03	---	---	200.0	H	307.0	-104.4
7962.750000	-61.37	-13.00	48.37	---	---	200.0	H	0.0	-98.4

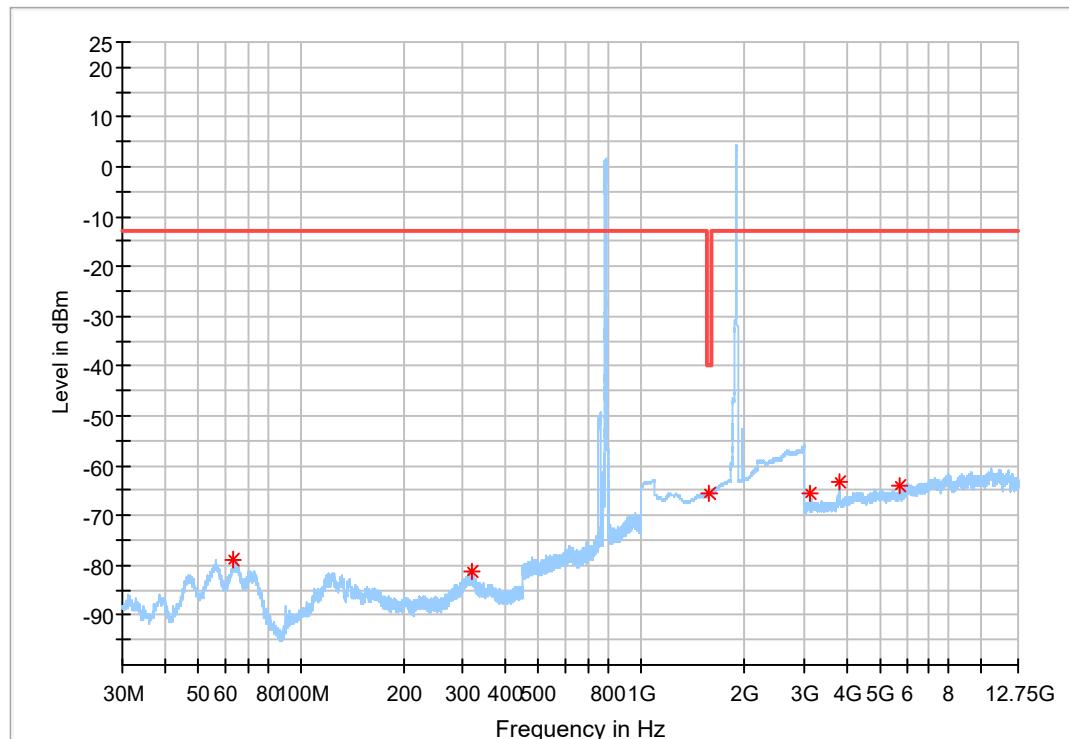
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4.7 Test Channel = HCH_ Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.250000	-79.10	-13.00	66.10	---	---	200.0	V	322.0	-100.2
319.350000	-81.17	-13.00	68.17	---	---	200.0	V	285.0	-102.0
1587.000000	-65.69	-40.00	25.69	---	---	200.0	V	107.0	-88.2
3127.725000	-65.63	-13.00	52.63	---	---	200.0	V	20.0	-105.6
3799.500000	-63.27	-13.00	50.27	---	---	200.0	V	9.0	-104.2
5697.500000	-64.16	-13.00	51.16	---	---	200.0	V	32.0	-101.4

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.

The End



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