



# Appendix B

## E-UTRA Band CA\_4A-13A



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# 1 Effective (Isotropic) Radiated Power Output Data

## 4.1.1. Max Power Test Result for LTE Band CA\_4A-13A

### PCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	15MHz	QPSK	20000	1RB#0	21.40	25.4	30	PASS
Band4	15MHz	QPSK	20000	1RB#24	21.95	25.95	30	PASS
Band4	15MHz	QPSK	20000	1RB#49	22.37	26.37	30	PASS
Band4	15MHz	QPSK	20000	25RB#0	20.99	24.99	30	PASS
Band4	15MHz	QPSK	20000	25RB#12	21.48	25.48	30	PASS
Band4	15MHz	QPSK	20000	25RB#25	21.24	25.24	30	PASS
Band4	15MHz	QPSK	20000	50RB#0	21.35	25.35	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.33	26.33	30	PASS
Band4	15MHz	QPSK	20175	1RB#24	22.31	26.31	30	PASS
Band4	15MHz	QPSK	20175	1RB#49	22.06	26.06	30	PASS
Band4	15MHz	QPSK	20175	25RB#12	21.33	25.33	30	PASS
Band4	15MHz	QPSK	20175	25RB#25	21.37	25.37	30	PASS
Band4	15MHz	QPSK	20175	25RB#0	21.47	25.47	30	PASS
Band4	15MHz	QPSK	20175	50RB#0	21.53	25.53	30	PASS
Band4	15MHz	QPSK	20350	1RB#0	22.27	26.27	30	PASS
Band4	15MHz	QPSK	20350	1RB#24	22.08	26.08	30	PASS
Band4	15MHz	QPSK	20350	1RB#49	22.29	26.29	30	PASS
Band4	15MHz	QPSK	20350	25RB#0	21.53	25.53	30	PASS
Band4	15MHz	QPSK	20350	25RB#12	21.53	25.53	30	PASS
Band4	15MHz	QPSK	20350	25RB#25	21.28	25.28	30	PASS
Band4	15MHz	QPSK	20350	50RB#0	21.49	25.49	30	PASS
Band4	15MHz	64QAM	20000	1RB#0	21.97	25.97	30	PASS
Band4	15MHz	64QAM	20000	1RB#49	21.77	25.77	30	PASS
Band4	15MHz	64QAM	20000	1RB#24	21.74	25.74	30	PASS
Band4	15MHz	64QAM	20000	25RB#12	20.78	24.78	30	PASS
Band4	15MHz	64QAM	20000	25RB#0	20.84	24.84	30	PASS
Band4	15MHz	64QAM	20000	25RB#25	20.95	24.95	30	PASS



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Band4	15MHz	64QAM	20000	50RB#0	20.88	24.88	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.93	25.93	30	PASS
Band4	15MHz	64QAM	20175	1RB#49	22.00	26	30	PASS
Band4	15MHz	64QAM	20175	1RB#24	21.94	25.94	30	PASS
Band4	15MHz	64QAM	20175	25RB#0	20.78	24.78	30	PASS
Band4	15MHz	64QAM	20175	25RB#12	20.91	24.91	30	PASS
Band4	15MHz	64QAM	20175	25RB#25	20.67	24.67	30	PASS
Band4	15MHz	64QAM	20175	50RB#0	20.65	24.65	30	PASS
Band4	15MHz	64QAM	20350	1RB#49	21.81	25.81	30	PASS
Band4	15MHz	64QAM	20350	1RB#24	21.61	25.61	30	PASS
Band4	15MHz	64QAM	20350	1RB#0	21.54	25.54	30	PASS
Band4	15MHz	64QAM	20350	25RB#25	20.65	24.65	30	PASS
Band4	15MHz	64QAM	20350	25RB#0	20.92	24.92	30	PASS
Band4	15MHz	64QAM	20350	25RB#12	20.69	24.69	30	PASS
Band4	15MHz	64QAM	20350	50RB#0	20.64	24.64	30	PASS
Band4	15MHz	16QAM	20000	1RB#49	21.44	25.44	30	PASS
Band4	15MHz	16QAM	20000	1RB#0	20.47	24.47	30	PASS
Band4	15MHz	16QAM	20000	1RB#24	21.36	25.36	30	PASS
Band4	15MHz	16QAM	20000	25RB#25	20.42	24.42	30	PASS
Band4	15MHz	16QAM	20000	25RB#0	19.82	23.82	30	PASS
Band4	15MHz	16QAM	20000	25RB#12	20.46	24.46	30	PASS
Band4	15MHz	16QAM	20000	50RB#0	20.16	24.16	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.30	25.3	30	PASS
Band4	15MHz	16QAM	20175	1RB#24	21.48	25.48	30	PASS
Band4	15MHz	16QAM	20175	1RB#49	21.41	25.41	30	PASS
Band4	15MHz	16QAM	20175	25RB#0	20.45	24.45	30	PASS
Band4	15MHz	16QAM	20175	25RB#12	20.24	24.24	30	PASS
Band4	15MHz	16QAM	20175	25RB#25	20.46	24.46	30	PASS
Band4	15MHz	16QAM	20175	50RB#0	20.36	24.36	30	PASS
Band4	15MHz	16QAM	20350	1RB#24	21.26	25.26	30	PASS
Band4	15MHz	16QAM	20350	1RB#49	21.79	25.79	30	PASS
Band4	15MHz	16QAM	20350	1RB#0	21.62	25.62	30	PASS
Band4	15MHz	16QAM	20350	25RB#0	20.50	24.5	30	PASS



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Band4	15MHz	16QAM	20350	25RB#12	20.57	24.57	30	PASS
Band4	15MHz	16QAM	20350	25RB#25	20.50	24.5	30	PASS
Band4	15MHz	16QAM	20350	50RB#0	20.26	24.26	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.25	26.25	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.57	26.57	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.34	26.34	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.27	25.27	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.29	25.29	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.54	25.54	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.52	25.52	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.44	26.44	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.38	26.38	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.24	26.24	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.48	25.48	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.38	25.38	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.47	25.47	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.51	25.51	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.46	26.46	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.49	26.49	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.61	26.61	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.61	25.61	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.75	25.75	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.44	25.44	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.68	25.68	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.68	25.68	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.79	25.79	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.16	26.16	30	PASS
Band4	20MHz	64QAM	20050	50RB#0	21.03	25.03	30	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.98	24.98	30	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.77	24.77	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.99	24.99	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.20	26.2	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.80	25.8	30	PASS



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Band4	20MHz	64QAM	20175	1RB#49	21.98	25.98	30	PASS
Band4	20MHz	64QAM	20175	50RB#25	21.14	25.14	30	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.91	24.91	30	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.91	24.91	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.85	24.85	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.18	26.18	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.95	25.95	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.95	25.95	30	PASS
Band4	20MHz	64QAM	20300	50RB#50	21.03	25.03	30	PASS
Band4	20MHz	64QAM	20300	50RB#0	21.08	25.08	30	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.96	24.96	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.00	25	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.81	25.81	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.49	25.49	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.78	25.78	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.39	24.39	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.63	24.63	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.52	24.52	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.44	24.44	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.76	25.76	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.87	25.87	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.43	25.43	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.57	24.57	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.38	24.38	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.55	24.55	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.45	24.45	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.59	25.59	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.68	25.68	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.90	25.9	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.61	24.61	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.42	24.42	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.56	24.56	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.43	24.43	30	PASS



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**SCC**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	10MHz	QPSK	23230	1RB#24	22.19	22.04	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.11	21.96	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.09	21.94	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.45	21.3	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.16	21.01	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.22	21.07	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.25	21.1	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	20.27	20.12	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	20.40	20.25	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	20.33	20.18	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	19.31	19.16	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	19.23	19.08	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	19.53	19.38	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	19.47	19.32	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	21.39	21.24	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	21.34	21.19	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	21.39	21.24	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	20.25	20.1	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	20.35	20.2	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	20.18	20.03	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	20.28	20.13	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.19	22.04	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.11	21.96	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.09	21.94	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	21.45	21.3	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	21.16	21.01	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	21.22	21.07	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.25	21.1	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.27	20.12	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.40	20.25	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	20.33	20.18	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	19.31	19.16	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	19.23	19.08	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	19.53	19.38	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	19.47	19.32	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.39	21.24	34.77	PASS



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Band13	10MHz	64QAM	23230	1RB#49	21.34	21.19	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.39	21.24	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.25	20.1	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.35	20.2	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.18	20.03	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.28	20.13	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.19	22.04	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.11	21.96	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.09	21.94	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.45	21.3	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.16	21.01	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.22	21.07	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.25	21.1	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	20.27	20.12	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	20.40	20.25	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	20.33	20.18	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	19.31	19.16	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	19.23	19.08	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	19.53	19.38	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	19.47	19.32	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.39	21.24	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.34	21.19	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.39	21.24	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.25	20.1	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.35	20.2	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.18	20.03	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.28	20.13	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]

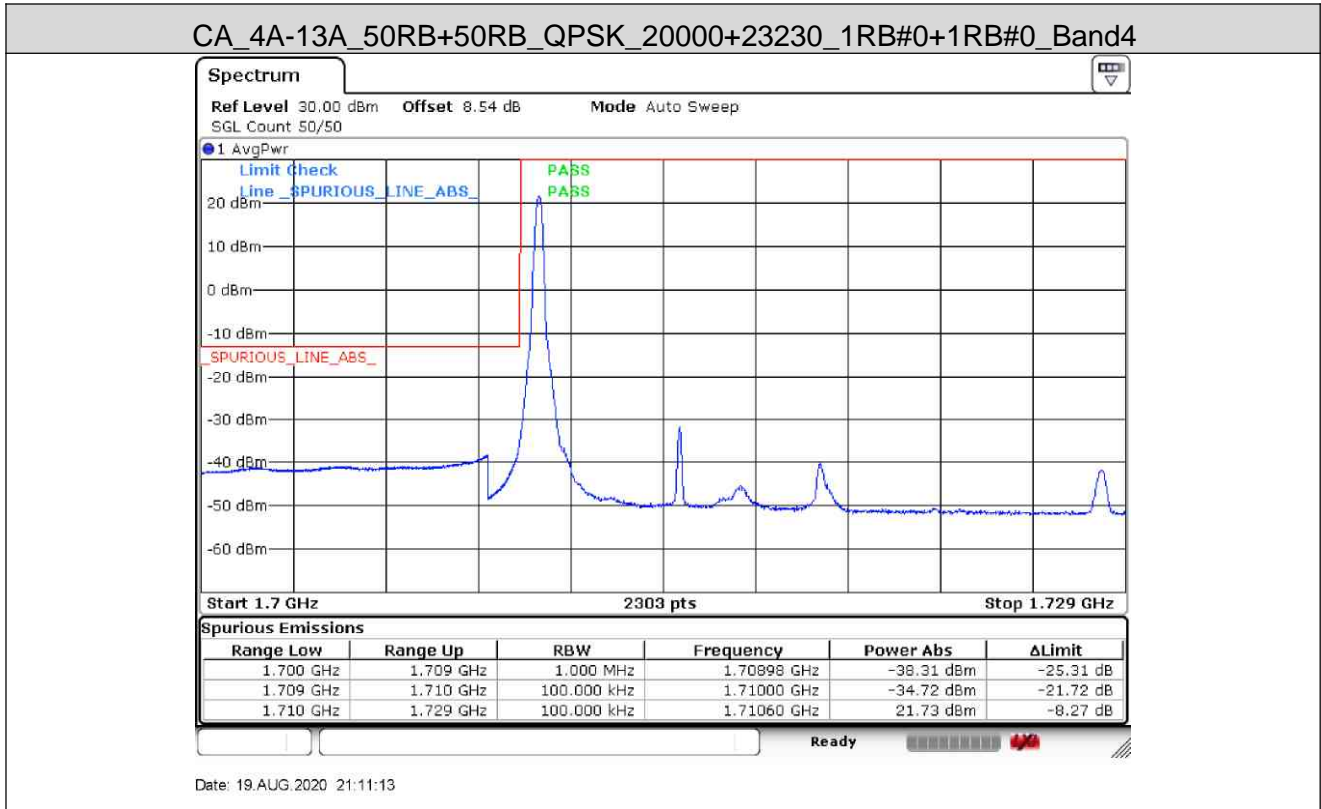




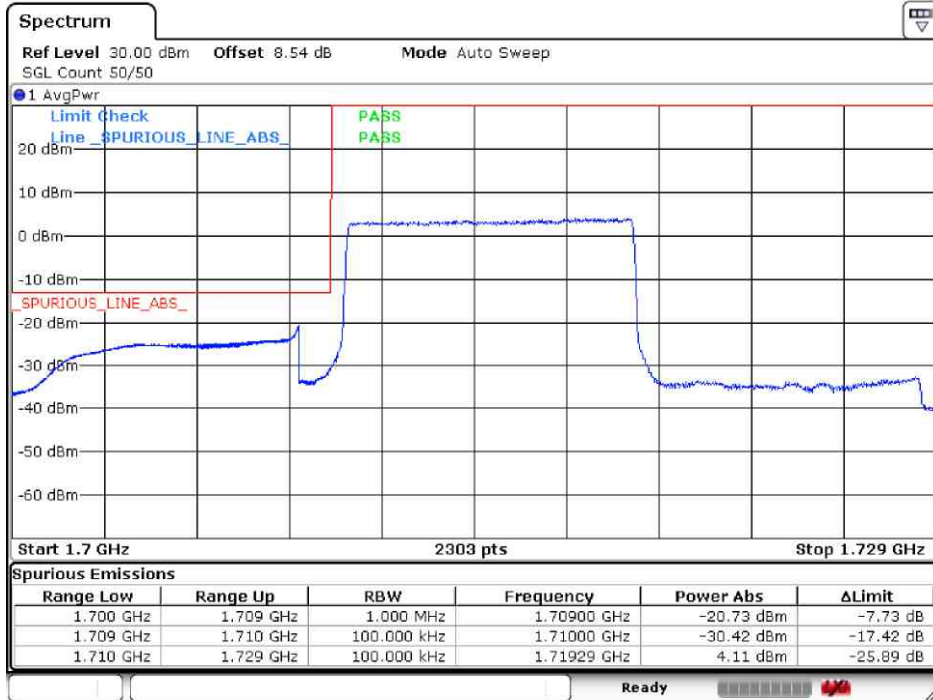
## 2 Band Edges Compliance

### 4.1.2. For LTE

#### 2.1.1 Test Band = LTE Band CA\_4A-13A

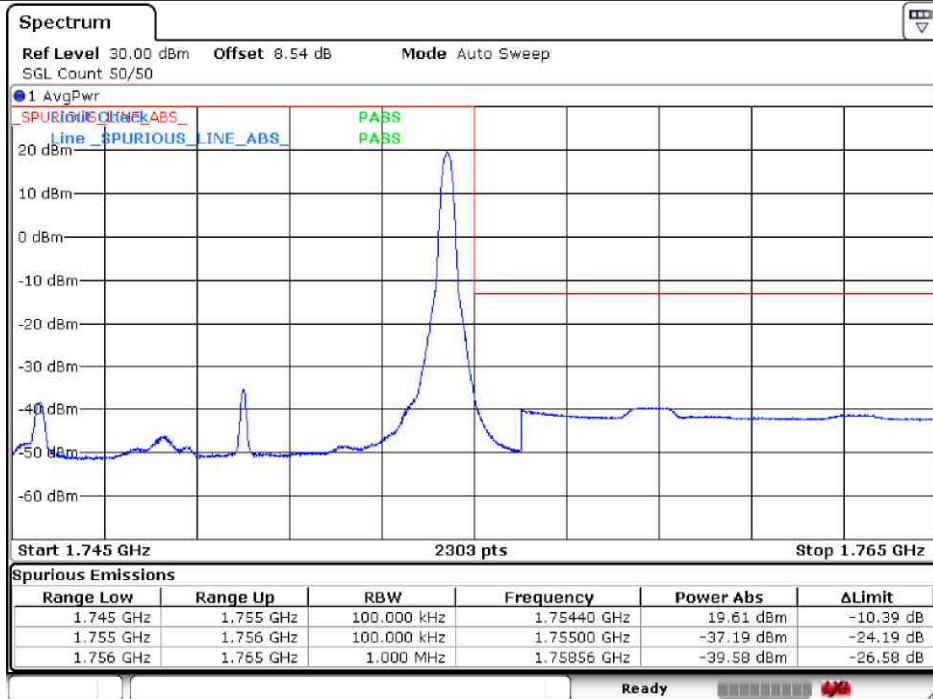


**CA\_4A-13A\_50RB+50RB\_QPSK\_20000+23230\_50RB#0+50RB#0\_Band4**



Date: 19.AUG.2020 21:08:36

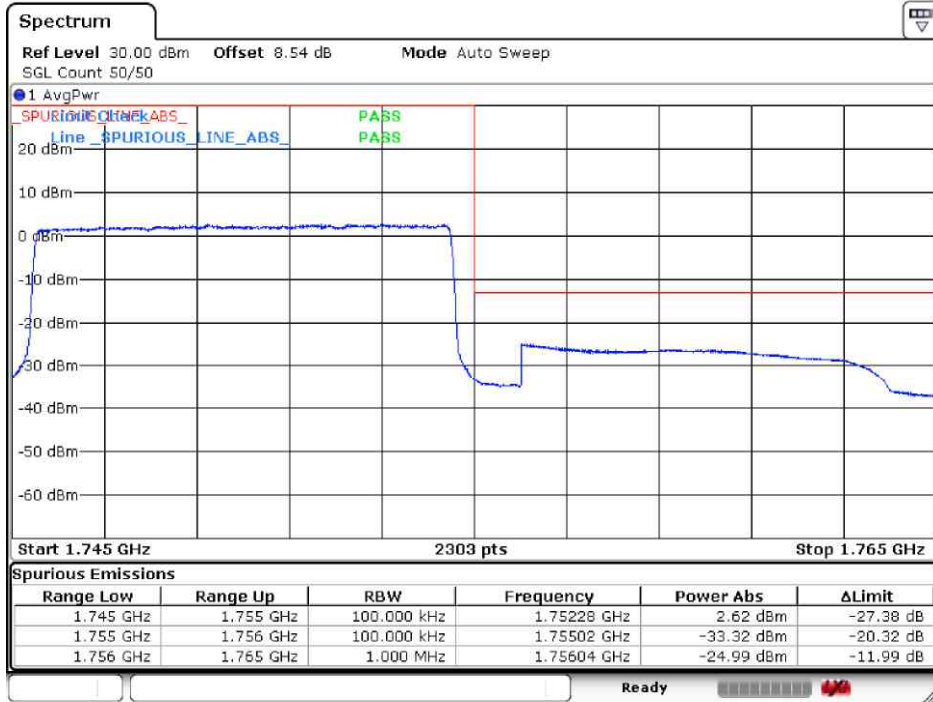
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Date: 19.AUG.2020 21:24:34

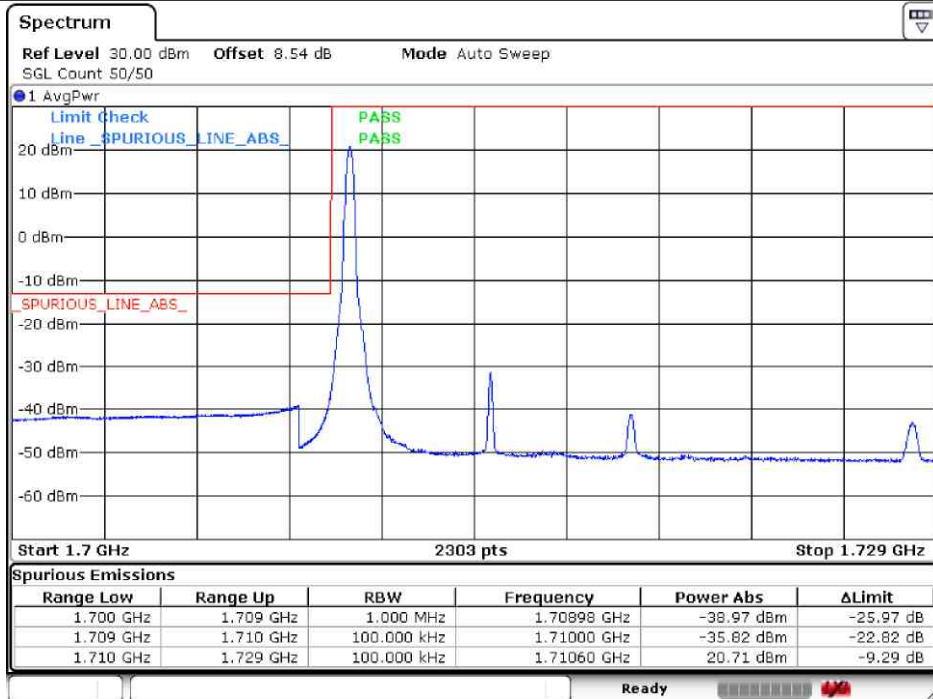


**CA\_4A-13A\_50RB+50RB\_QPSK\_20350+23230\_50RB#0+50RB#0\_Band4**



Date: 19.AUG.2020 21:57:19

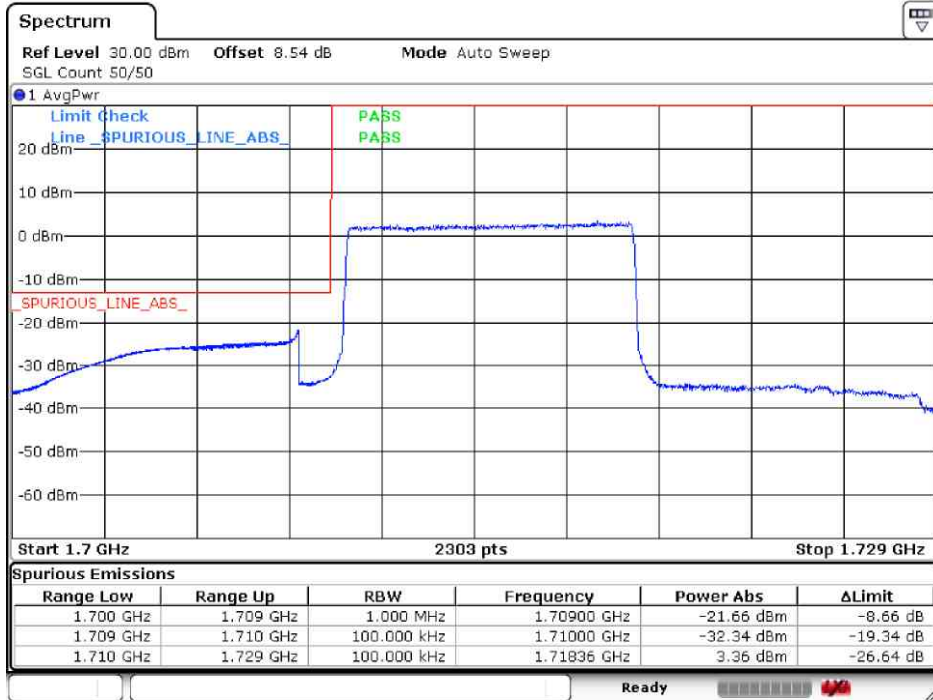
**CA\_4A-13A\_50RB+50RB\_16QAM\_20000+23230\_1RB#0+1RB#0\_Band4**



Date: 19.AUG.2020 21:10:21

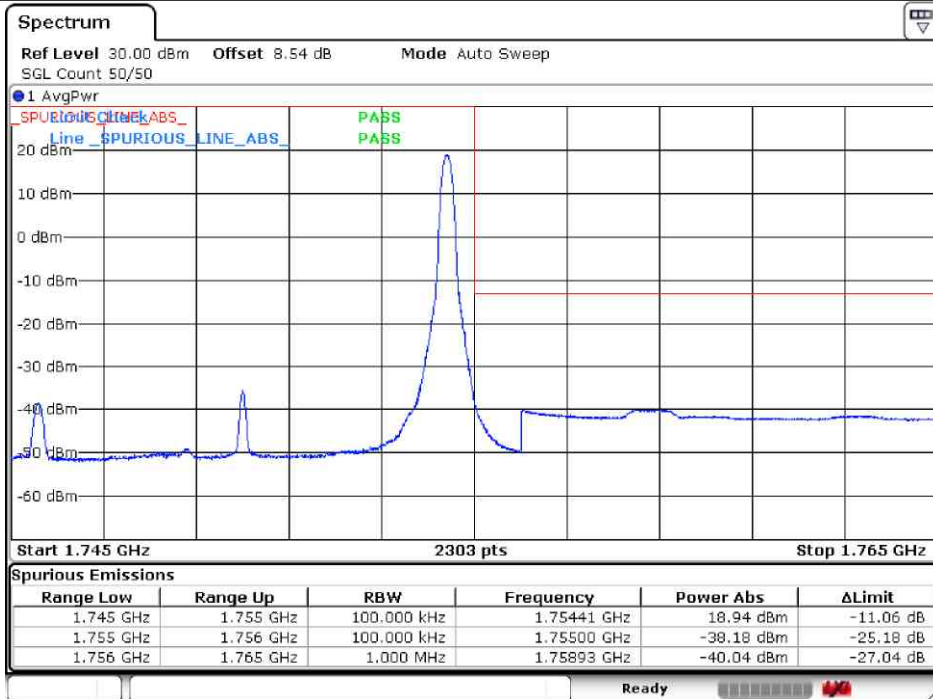


CA\_4A-13A\_50RB+50RB\_16QAM\_20000+23230\_50RB#0+50RB#0\_Band4



Date: 19.AUG.2020 21:09:31

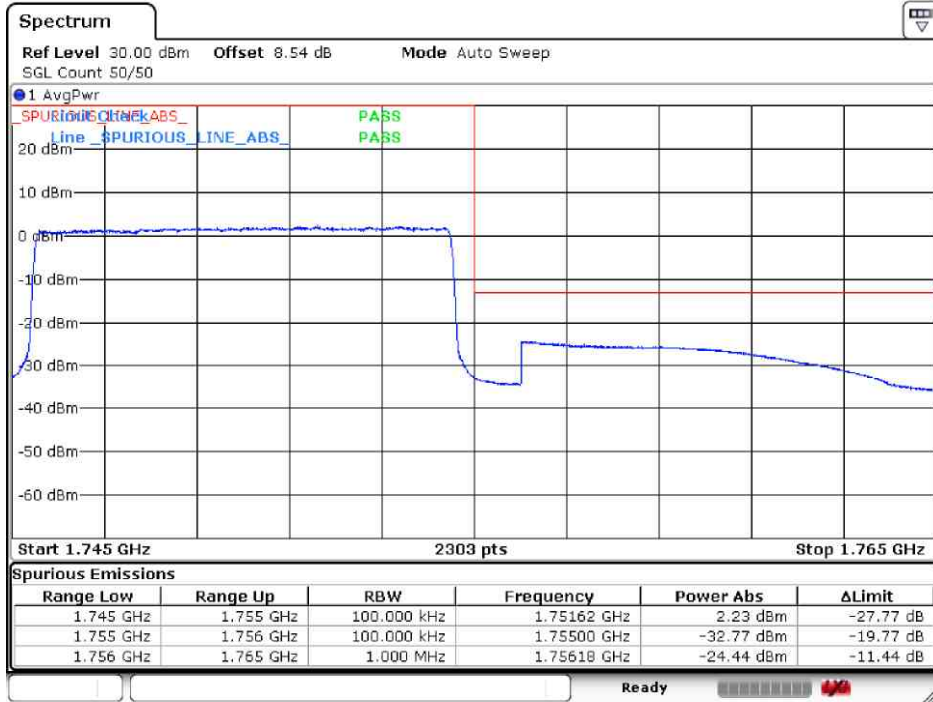
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Date: 19.AUG.2020 21:30:35

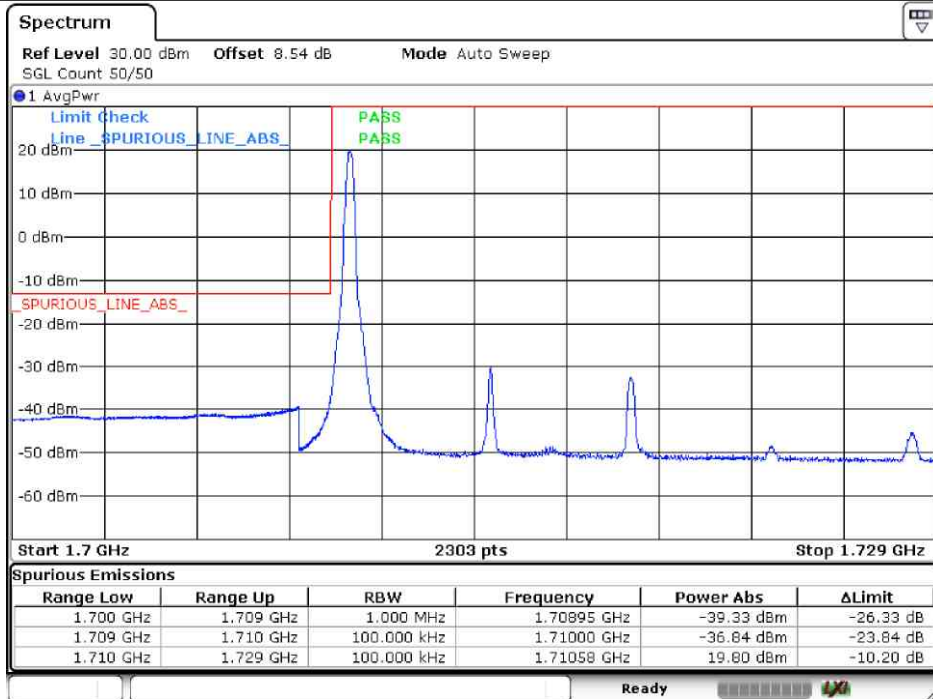


**CA\_4A-13A\_50RB+50RB\_16QAM\_20350+23230\_50RB#0+50RB#0\_Band4**



Date: 19.AUG.2020 21:36:04

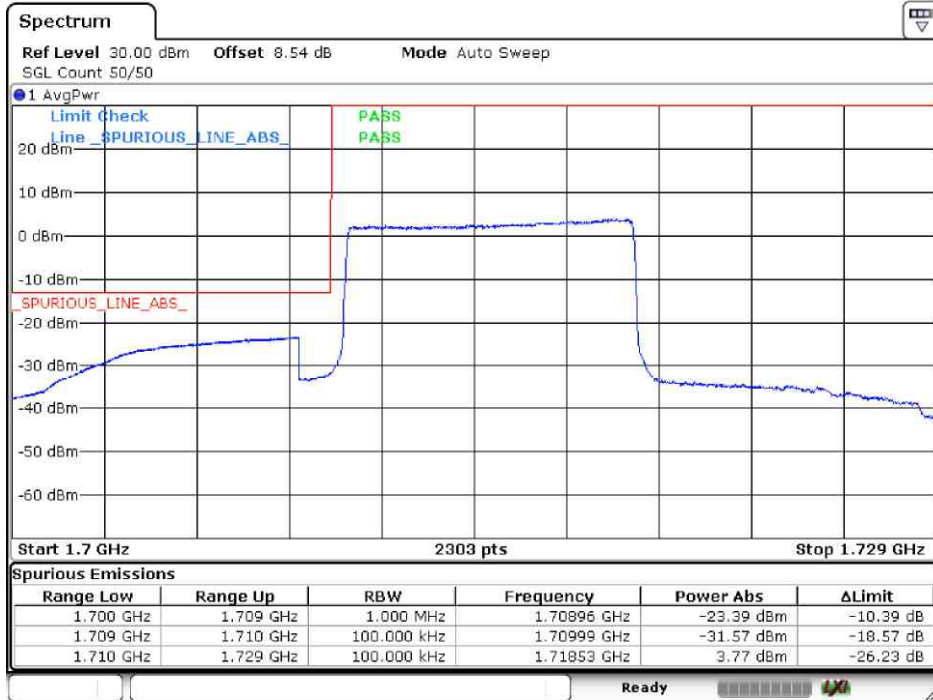
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Date: 24.AUG.2020 10:17:32

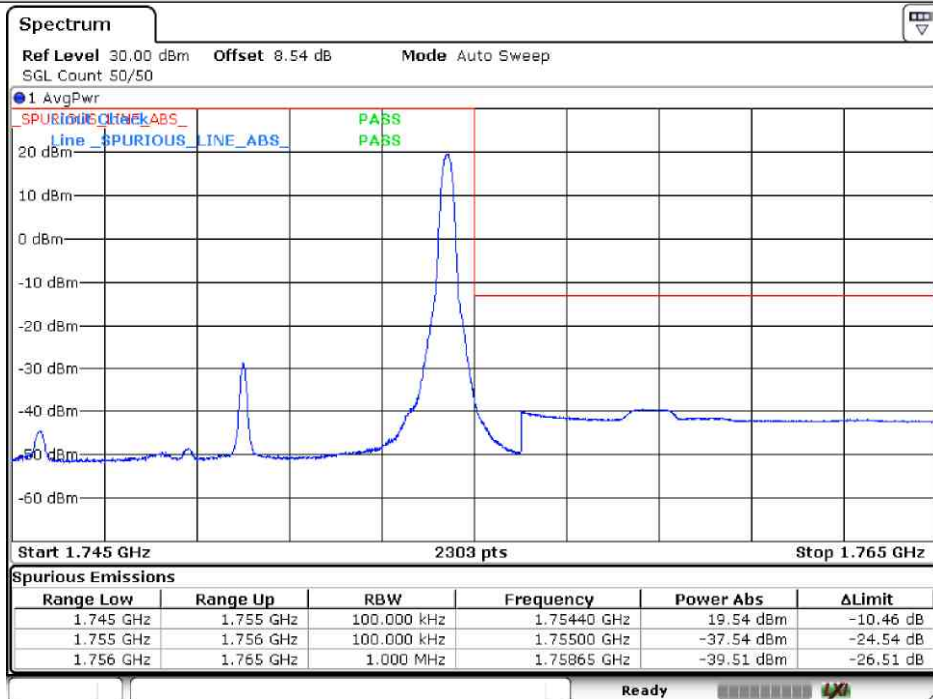


**CA\_4A-13A\_50RB+50RB\_64QAM\_20000+23230\_50RB#0+50RB#0\_Band4**



Date: 24.AUG.2020 10:18:55

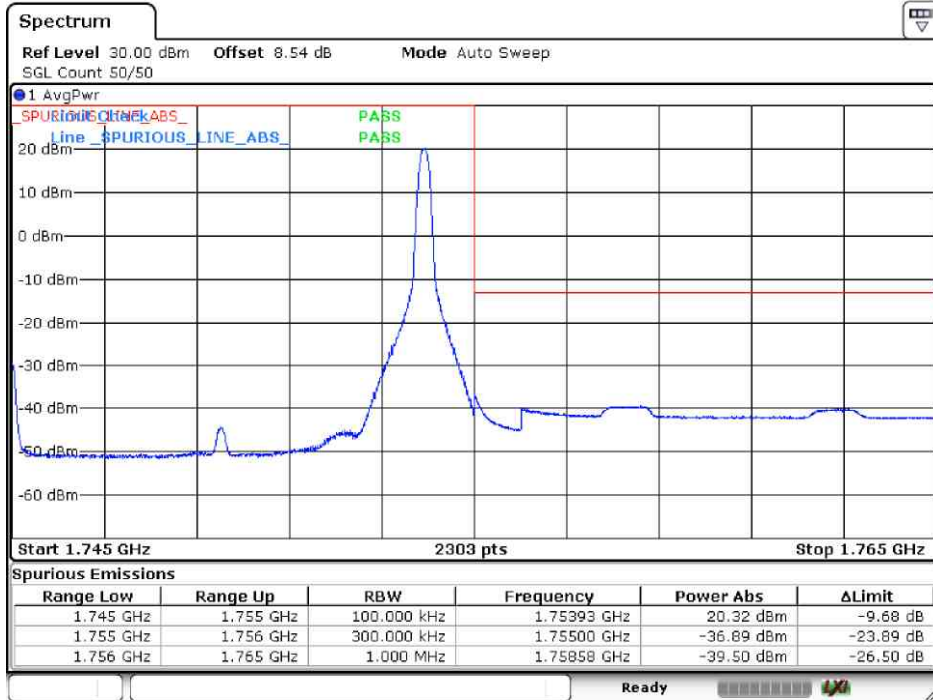
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Date: 24.AUG.2020 10:21:42

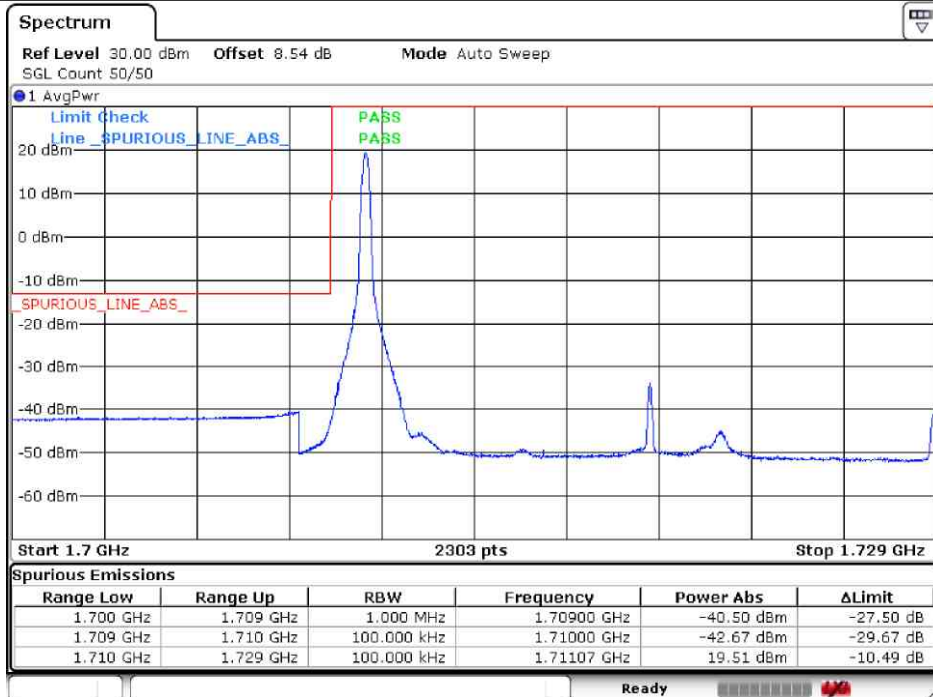


CA\_4A-13A\_50RB+50RB\_64QAM\_20350+23230\_50RB#0+50RB#0\_Band4



Date: 24.AUG.2020 10:02:39

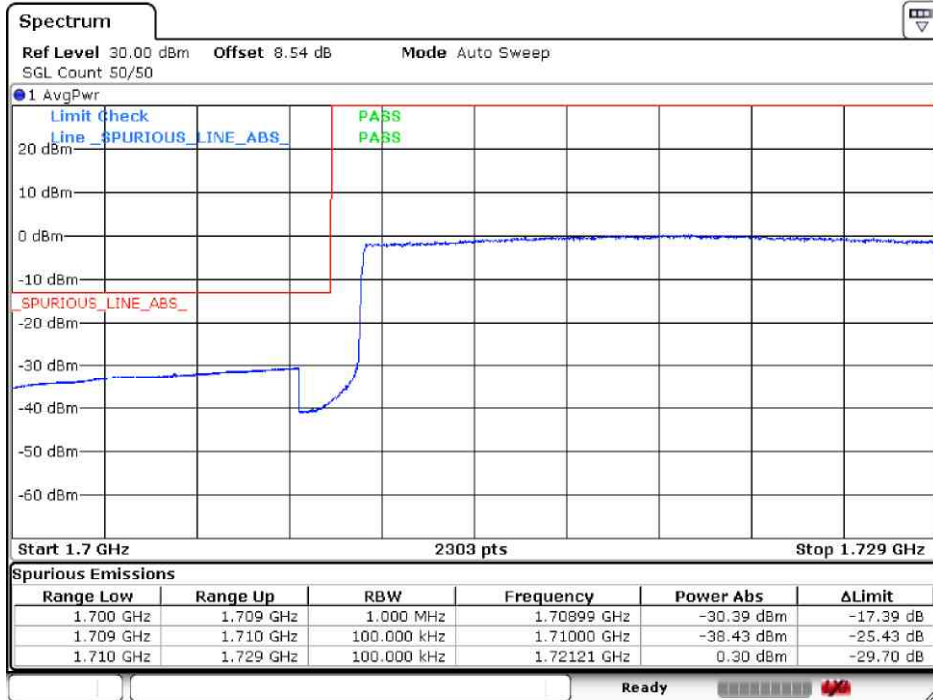
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Date: 19.AUG.2020 20:19:10

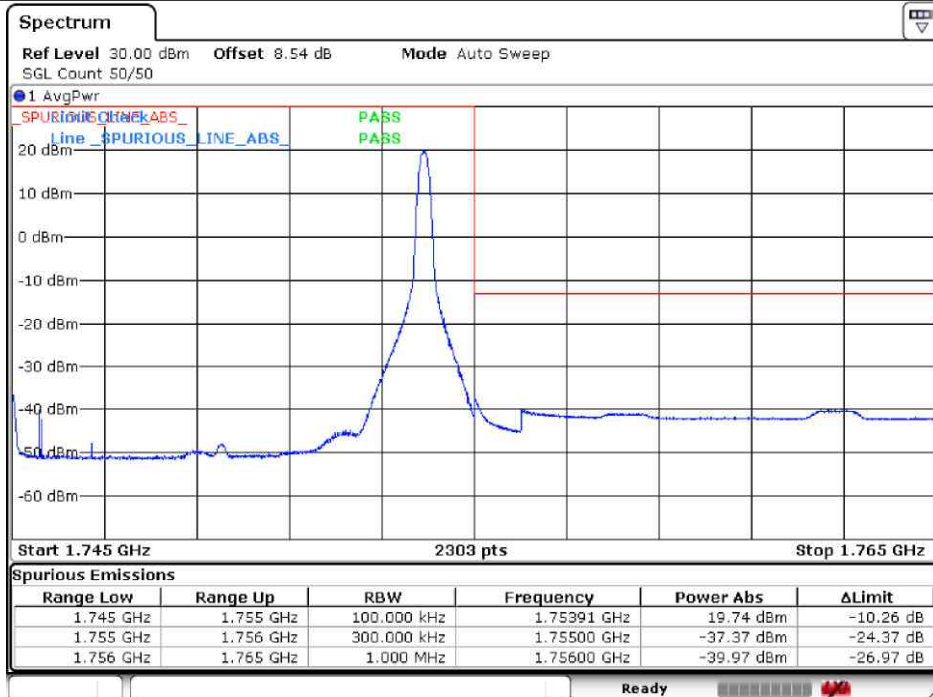


CA\_4A-13A\_100RB+50RB\_QPSK\_20050+23230\_100RB#0+50RB#0\_Band4



Date: 19.AUG.2020 20:17:59

CA\_4A-13A\_100RB+50RB\_QPSK\_20300+23230\_1RB#99+1RB#49\_Band4

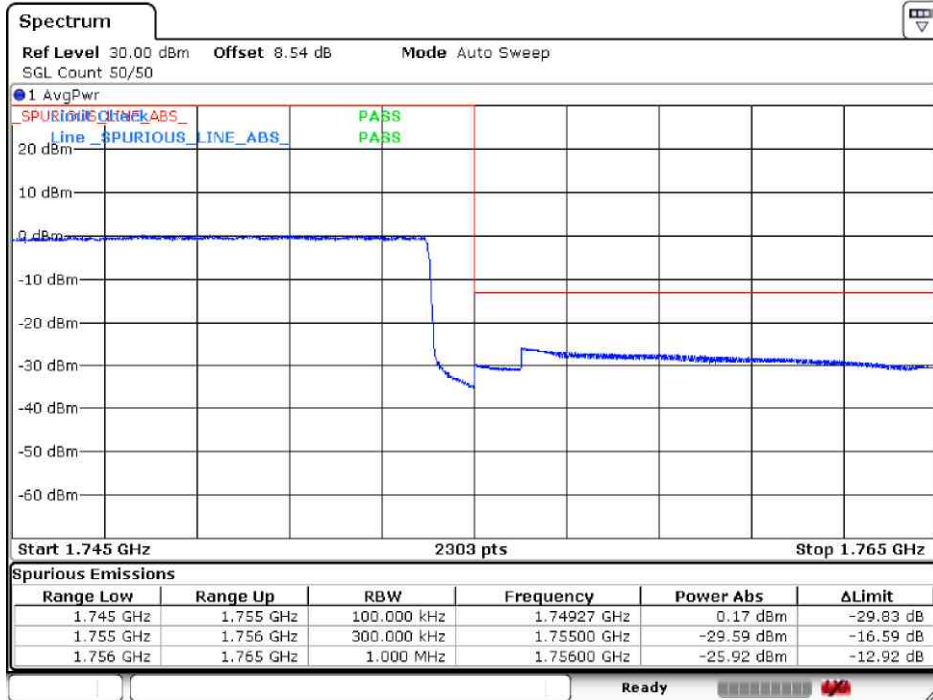


Date: 19.AUG.2020 20:51:44



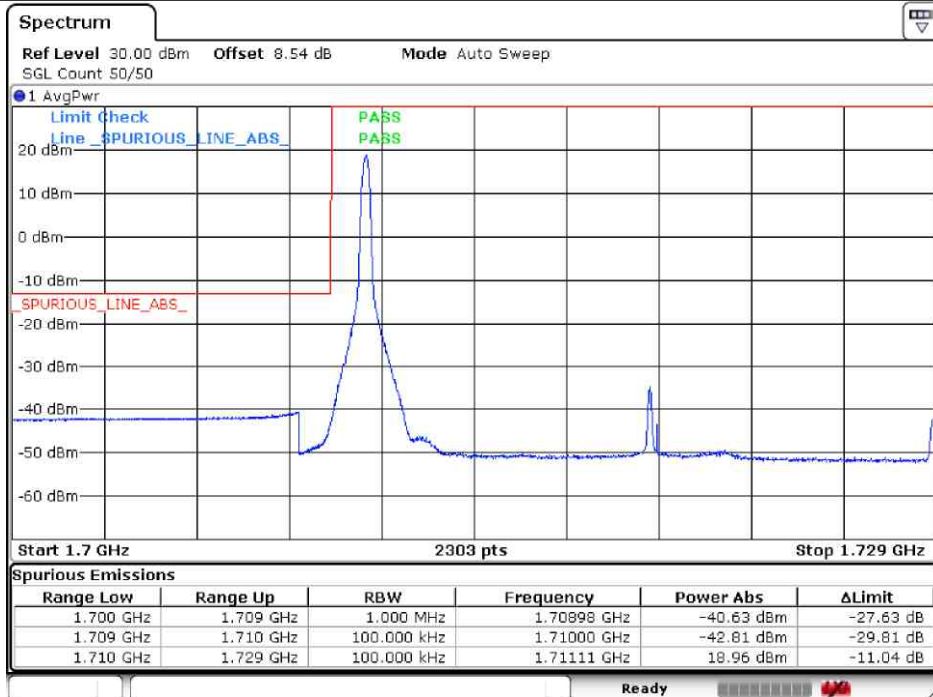


CA\_4A-13A\_100RB+50RB\_QPSK\_20300+23230\_100RB#0+50RB#0\_Band4



Date: 19.AUG.2020 20:52:15

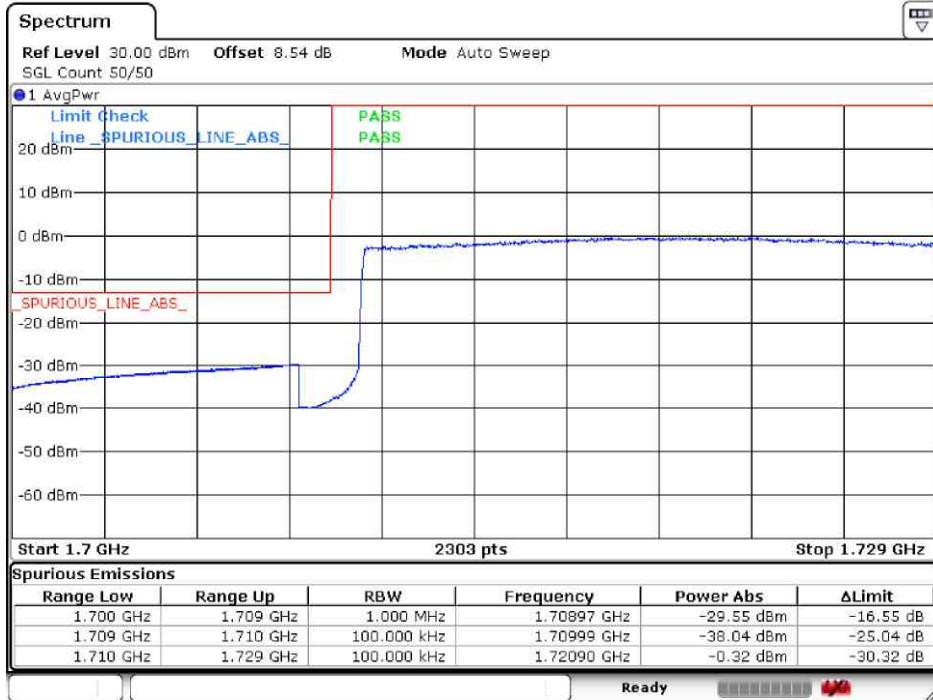
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Date: 19.AUG.2020 20:19:37

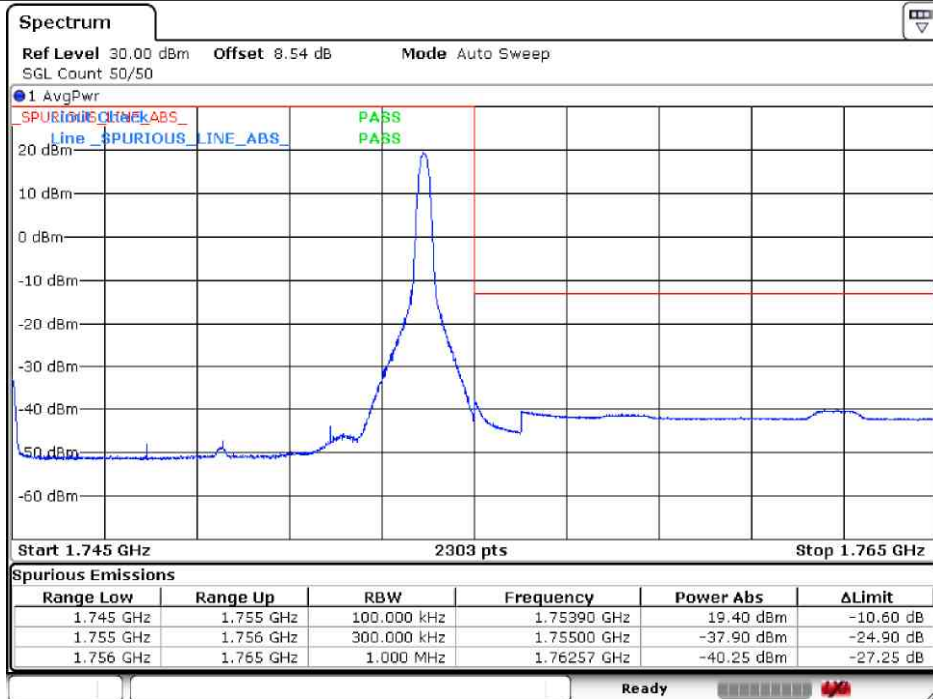


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Date: 19.AUG.2020 20:15:21

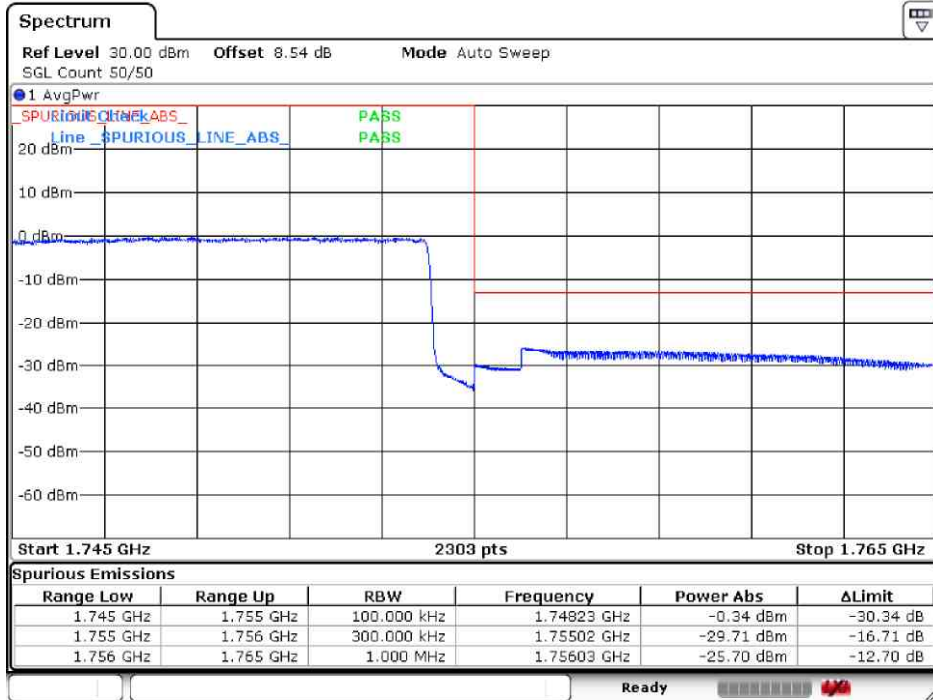
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Date: 19.AUG.2020 20:50:30

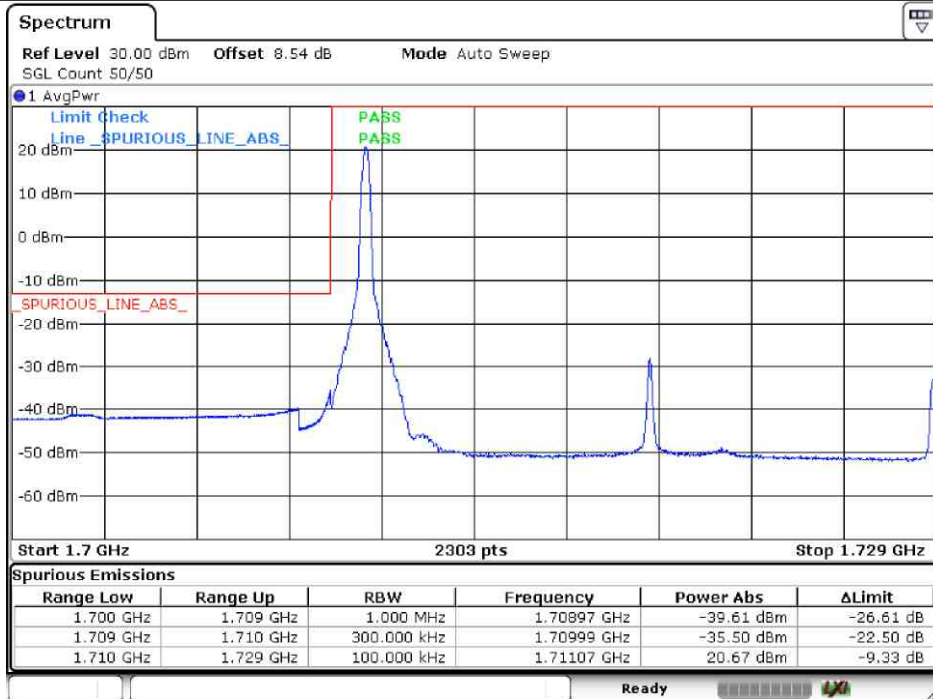


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Date: 19.AUG.2020 20:52:46

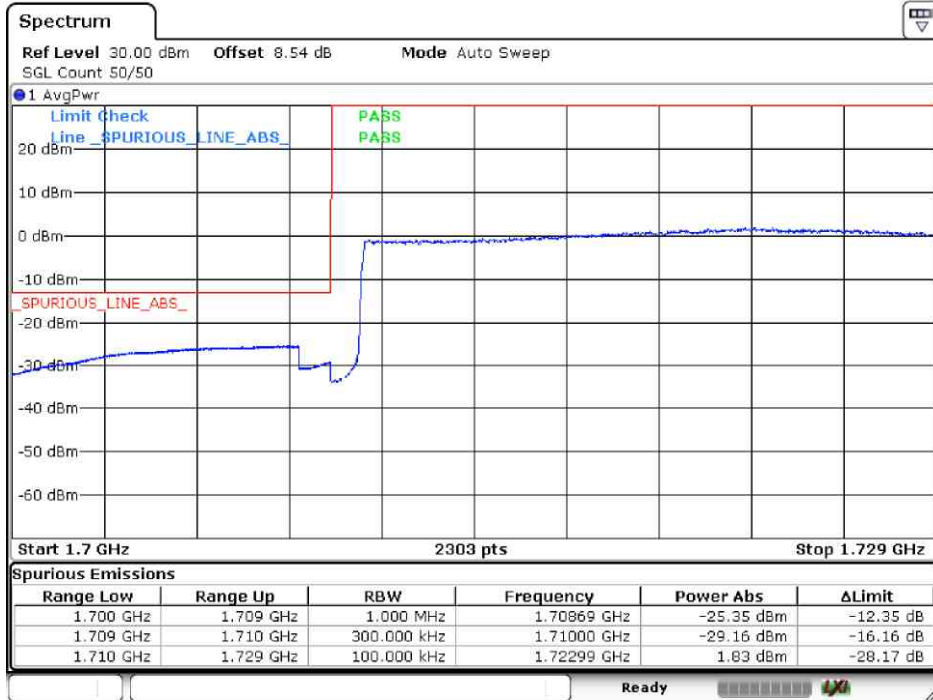
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Date: 24.AUG.2020 09:59:22

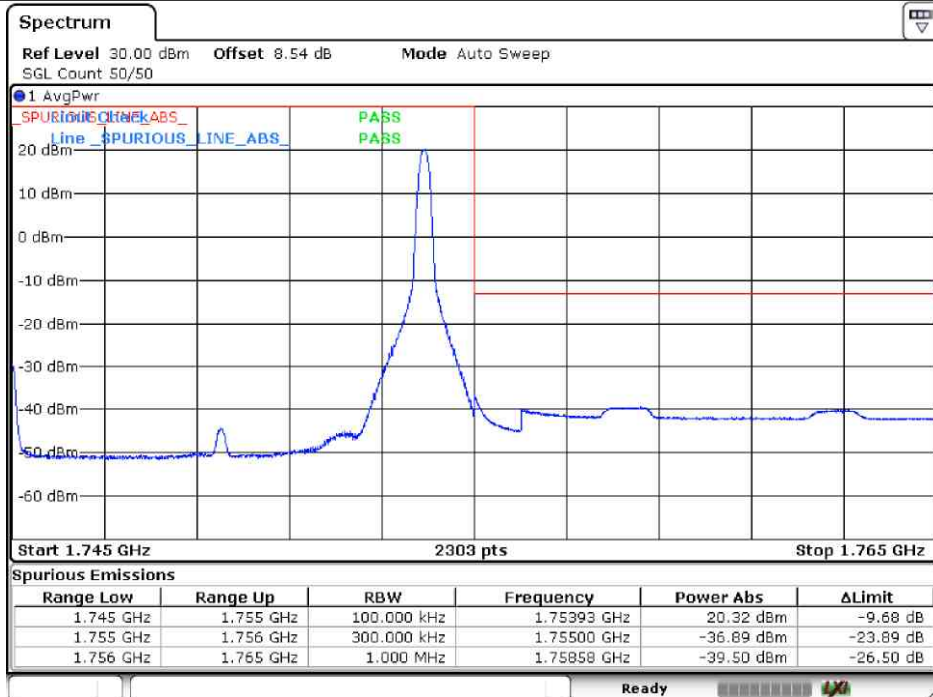


CA\_4A-13A\_100RB+50RB\_64QAM\_20050+23230\_100RB#0+50RB#0\_Band4



Date: 24.AUG.2020 10:00:23

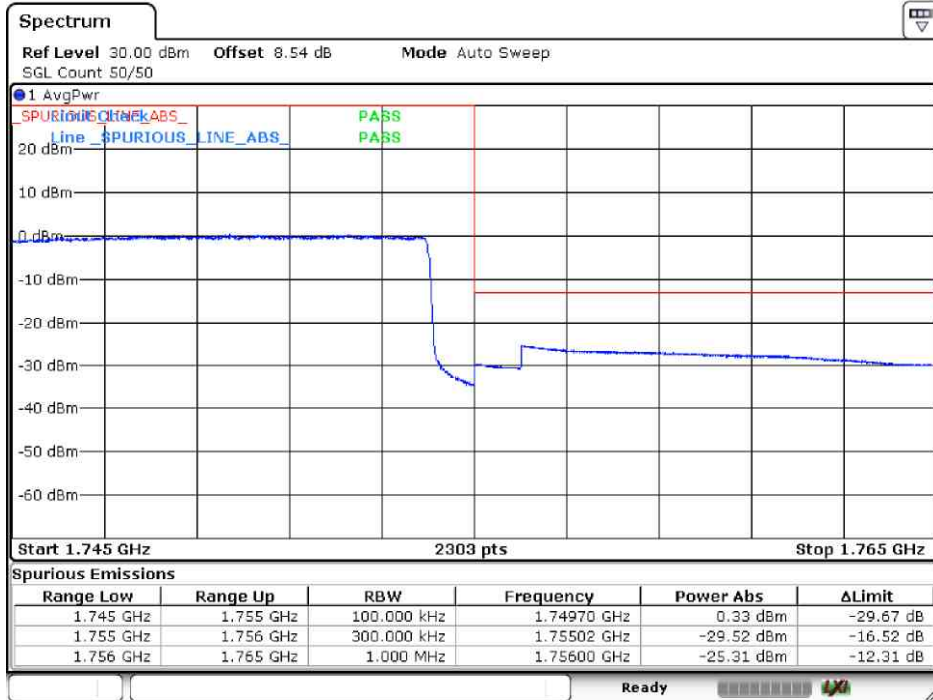
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Date: 24.AUG.2020 10:02:39

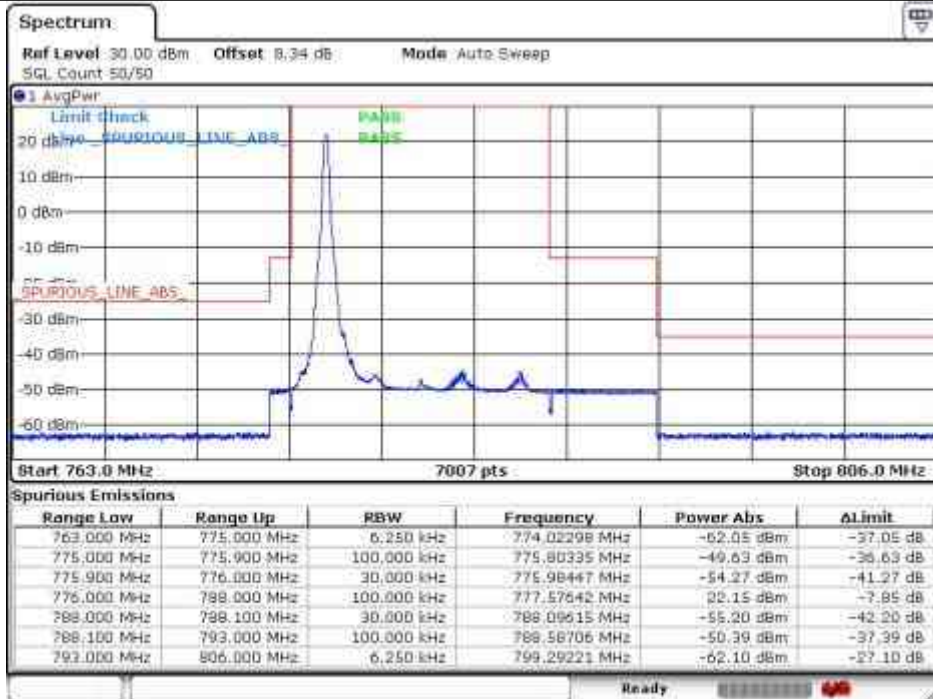


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Date: 24.AUG.2020 10:01:26

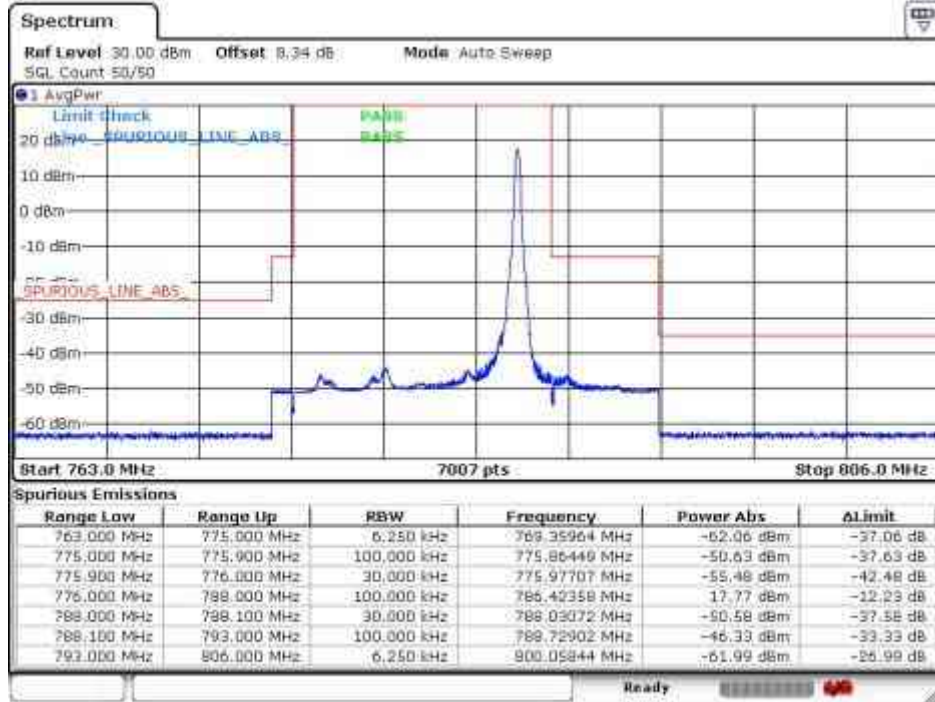
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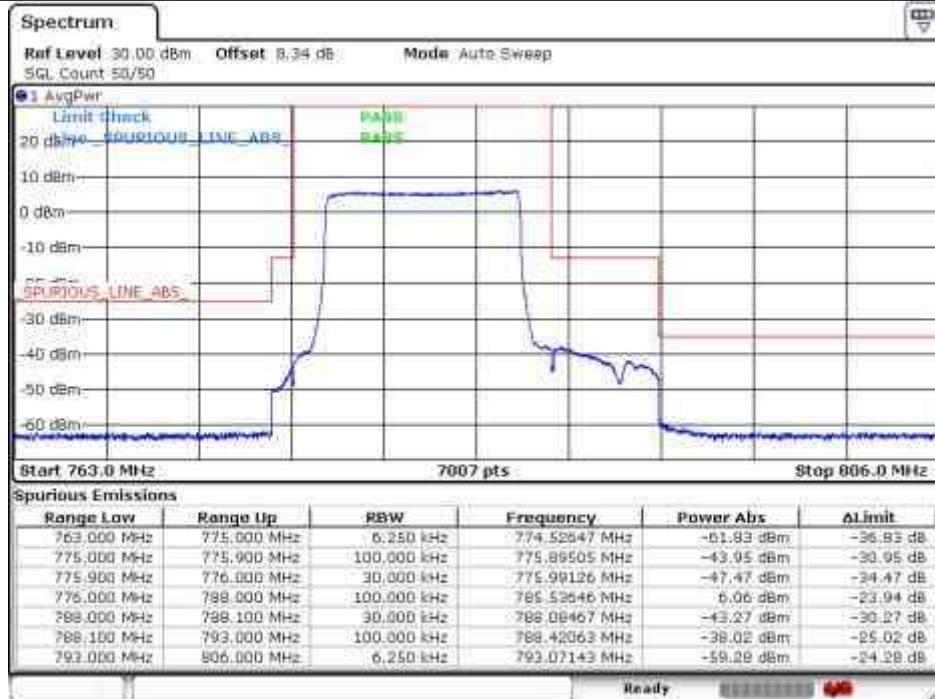


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Date: 20.AUG 2020 18:11:21

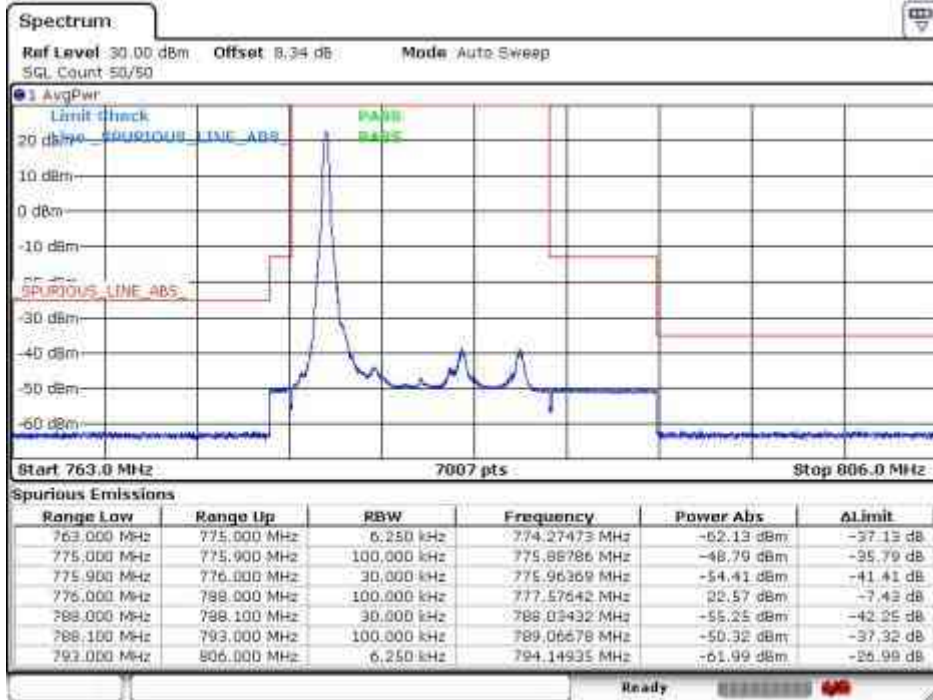
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Date: 19.AUG 2020 21:16:54

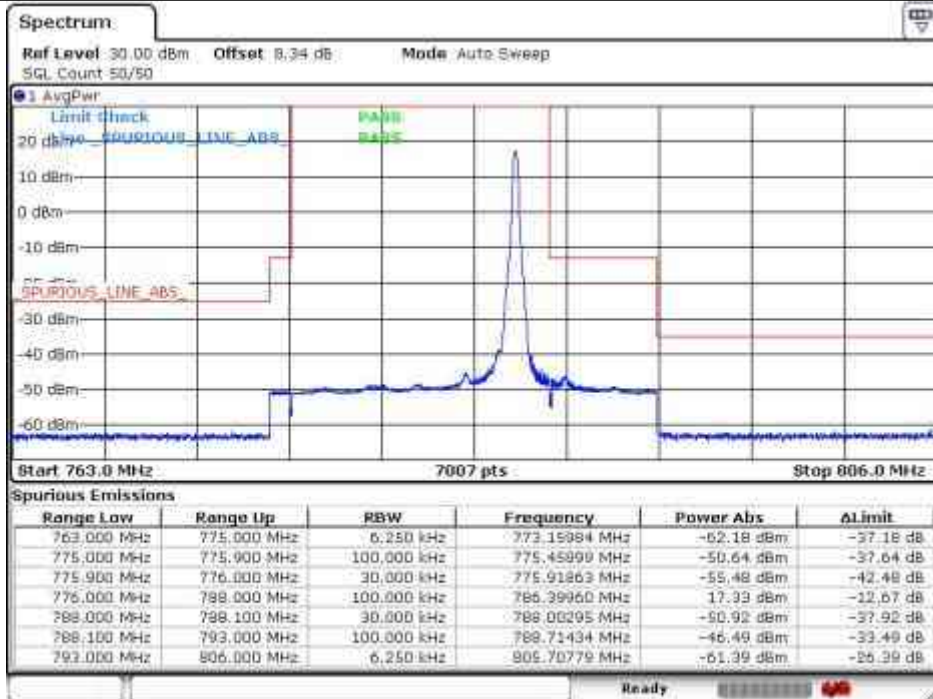


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Date: 19 AUG 2020 21:13:18

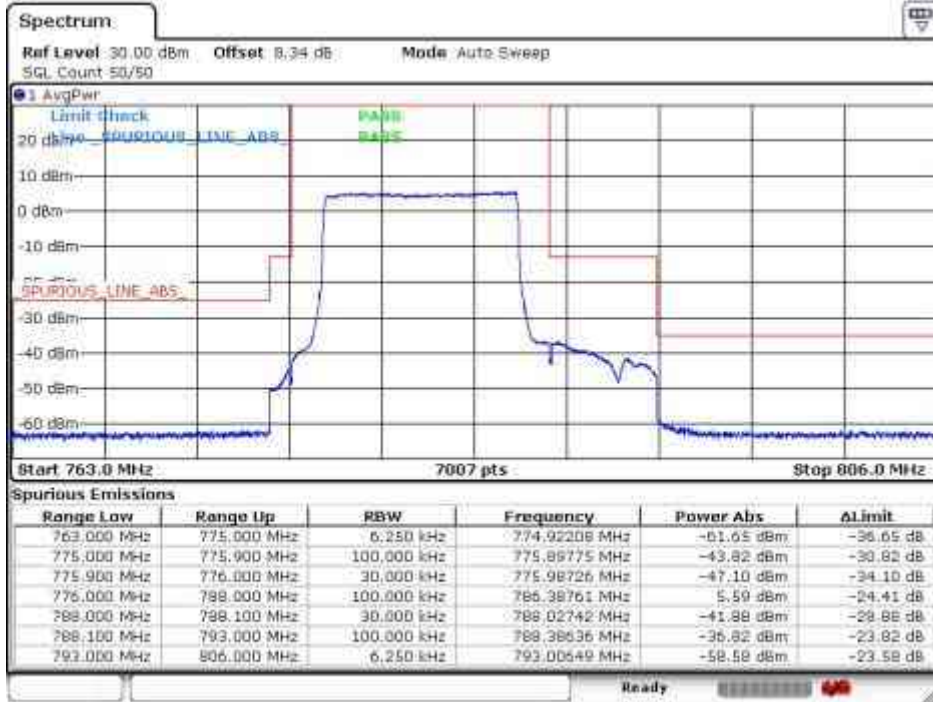
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Date: 20 AUG 2020 16:10:01

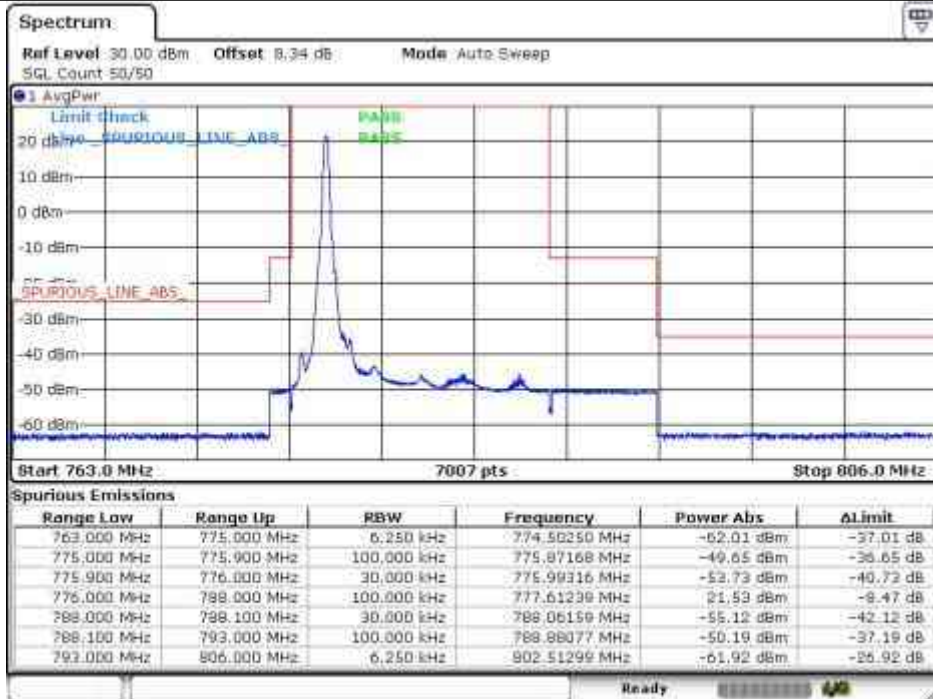


CA\_4A-13A\_50RB+50RB\_16QAM\_20350+23230\_50RB#0+50RB#0\_Band13



Date: 19 AUG 2020 21:15:59

CA\_4A-13A\_50RB+50RB\_64QAM\_20000+23230\_1RB#0+1RB#0\_Band13

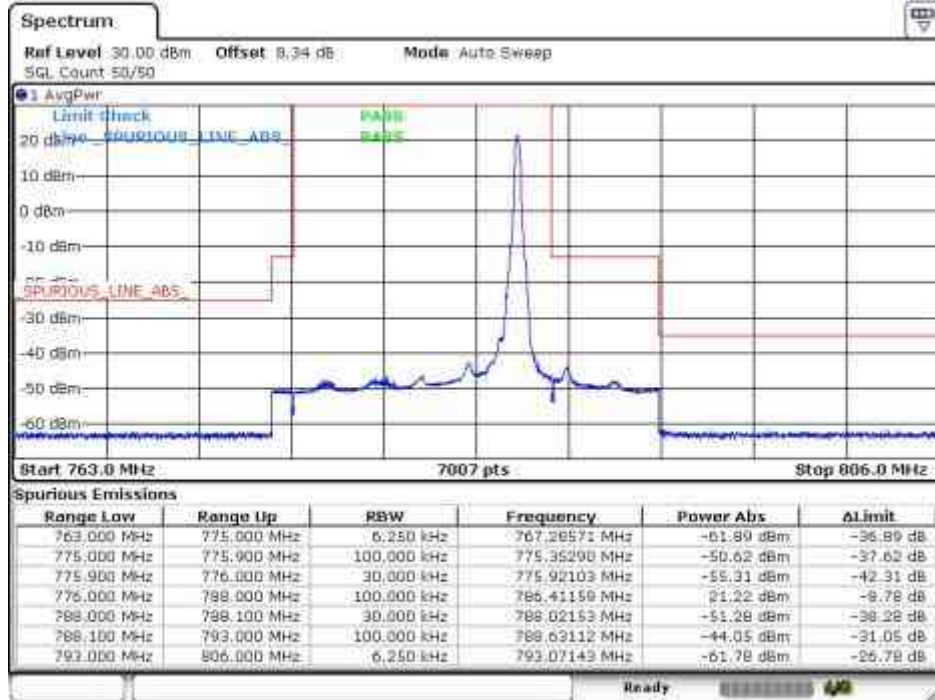


Date: 24 AUG 2020 10:07:57



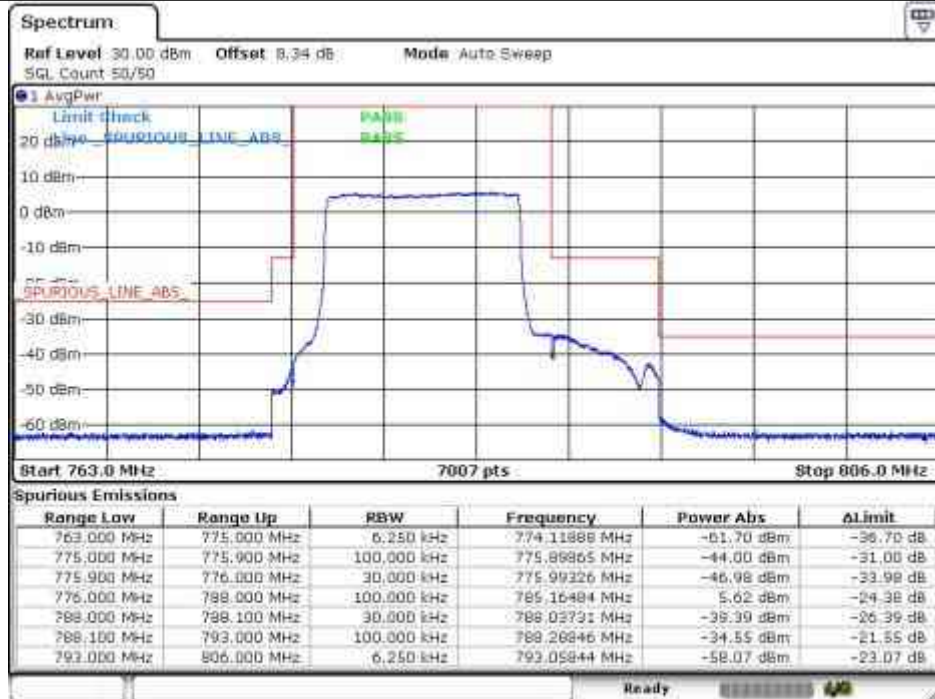


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Date: 24 AUG 2020 10:08:53

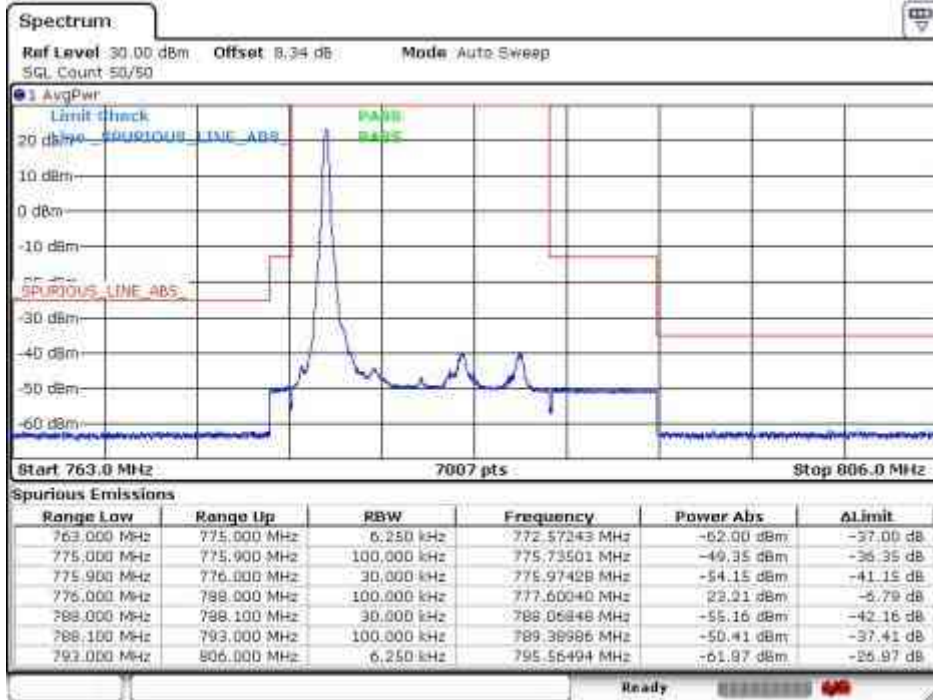
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Date: 24 AUG 2020 10:11:03

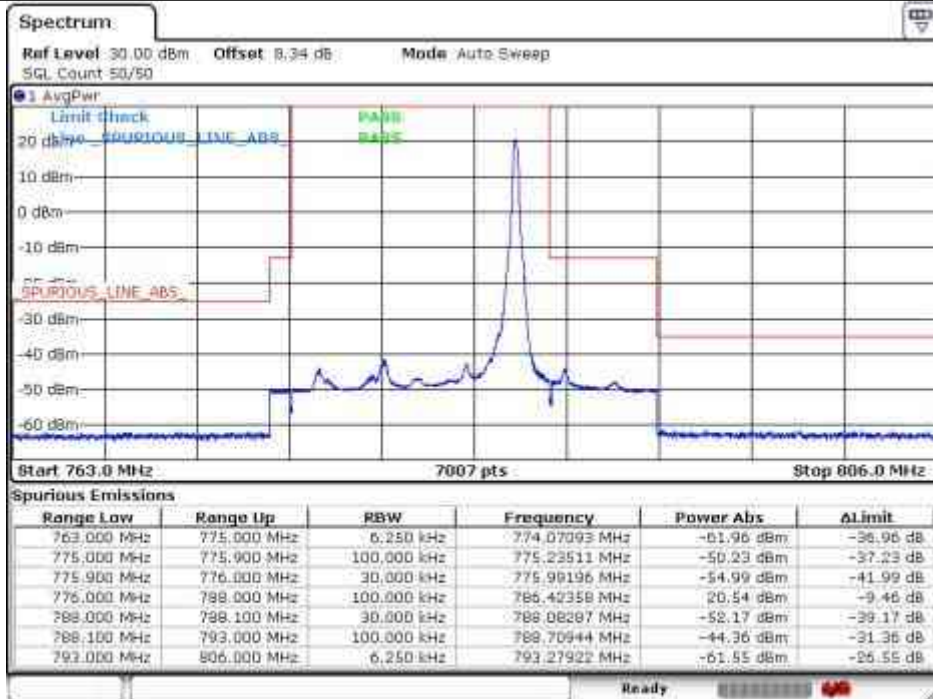


CA\_4A-13A\_100RB+50RB\_QPSK\_20050+23230\_1RB#0+1RB#0\_Band13



Date: 19 AUG 2020 20:41:30

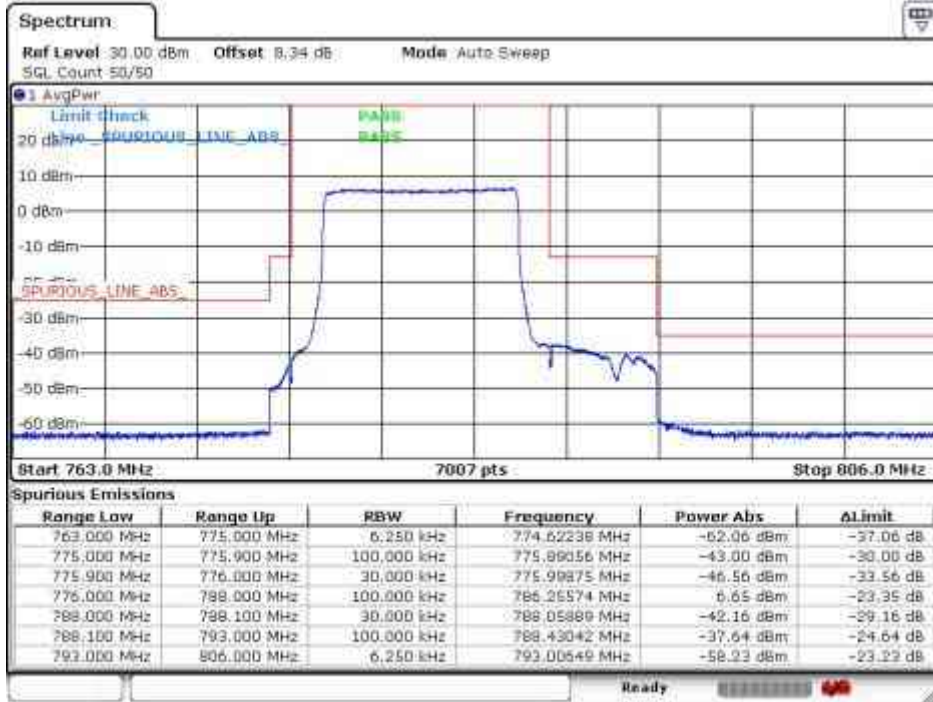
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Date: 20 AUG 2020 15:58:59

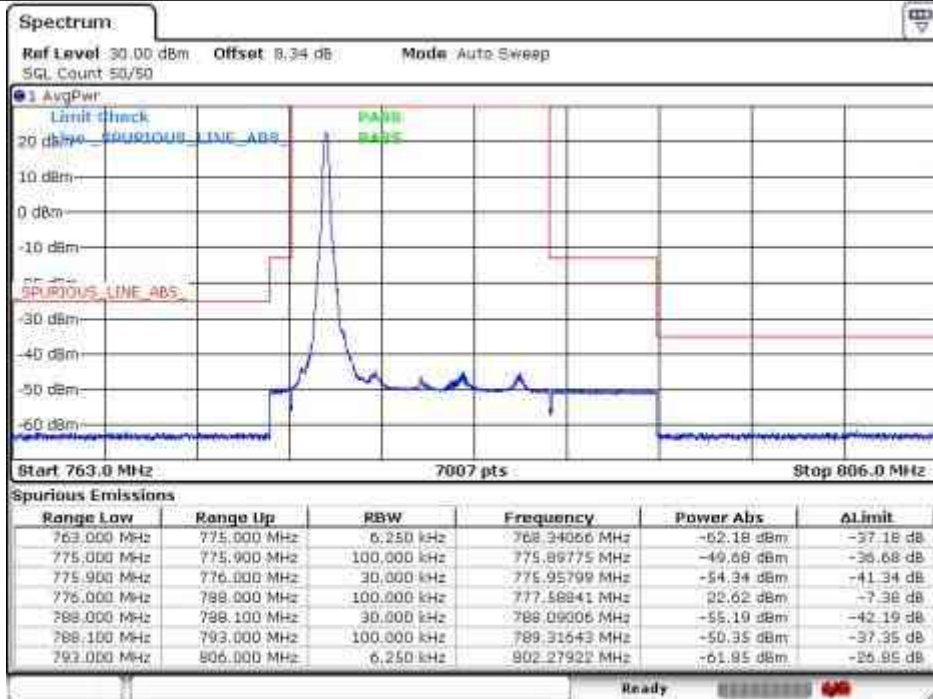


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Date: 19 AUG 2020 20:40:25

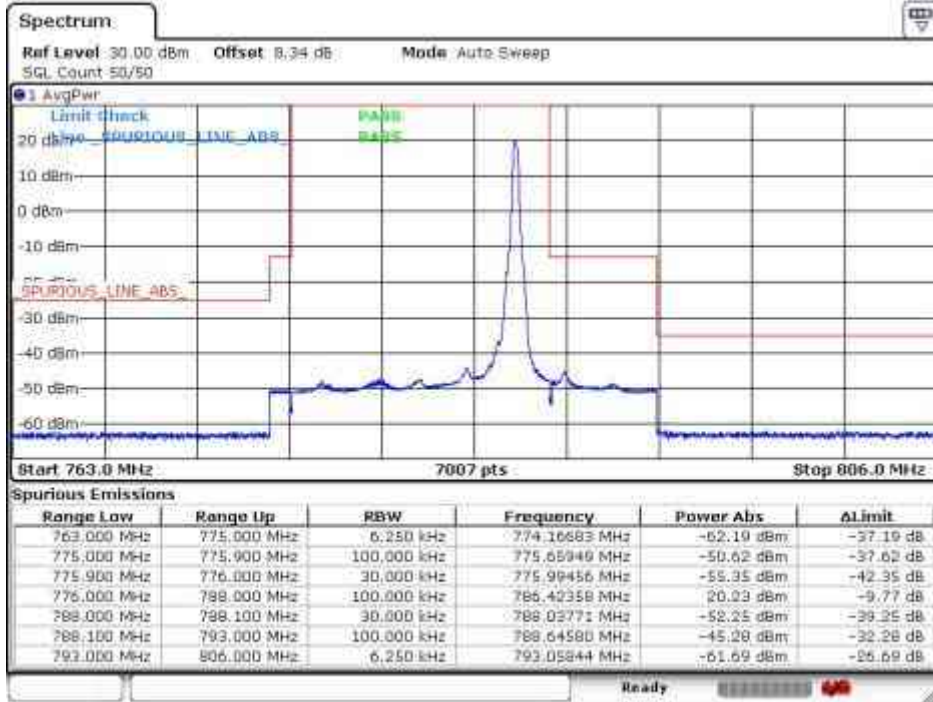
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Date: 19 AUG 2020 20:43:00

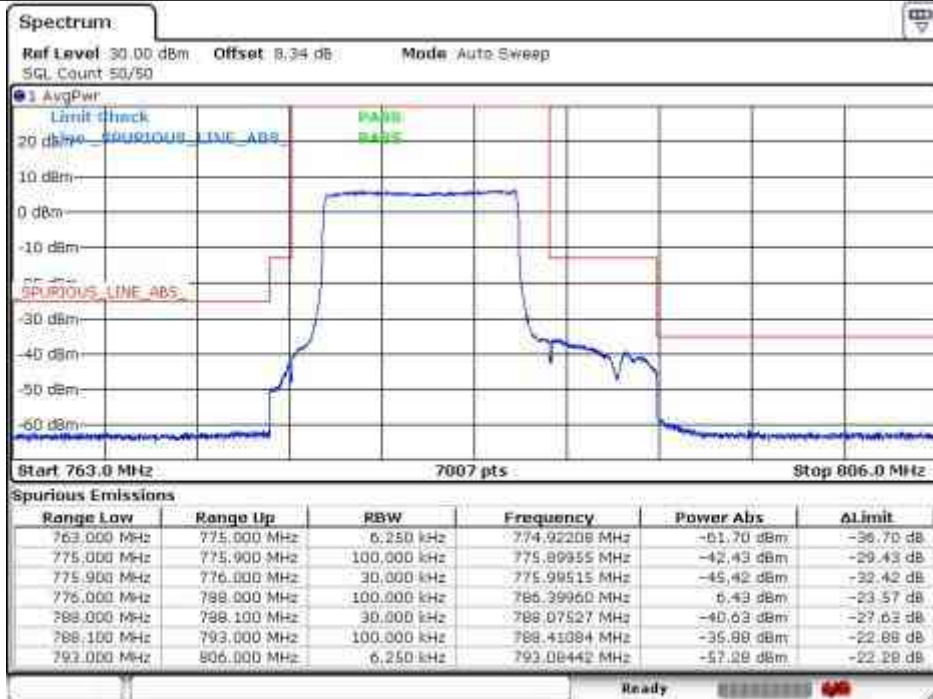


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Date: 20.AUG 2020 18:02:12

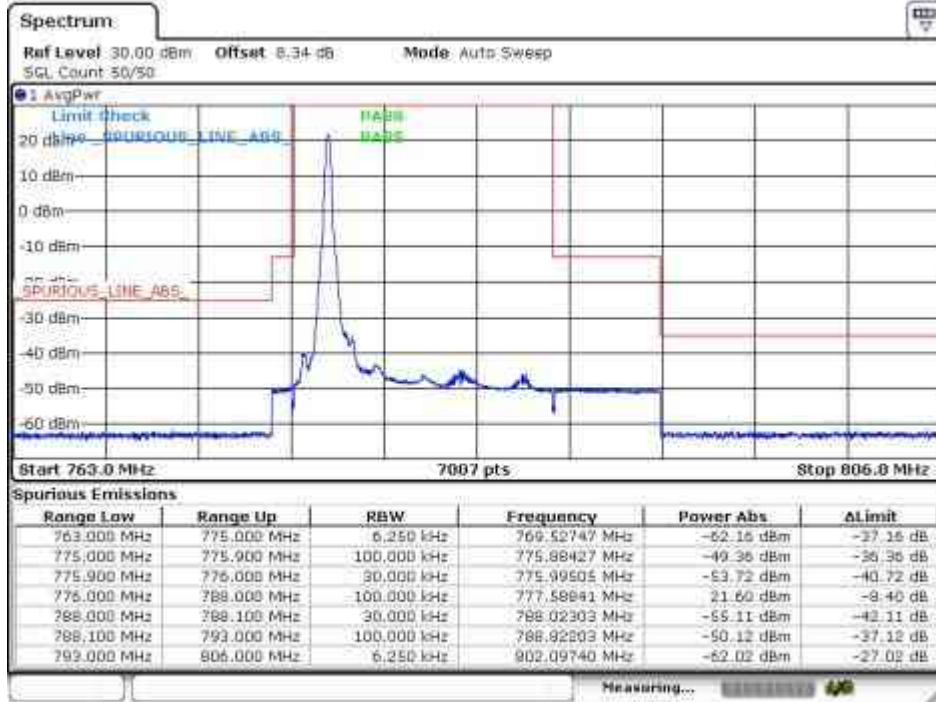
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Date: 19.AUG 2020 20:37:35

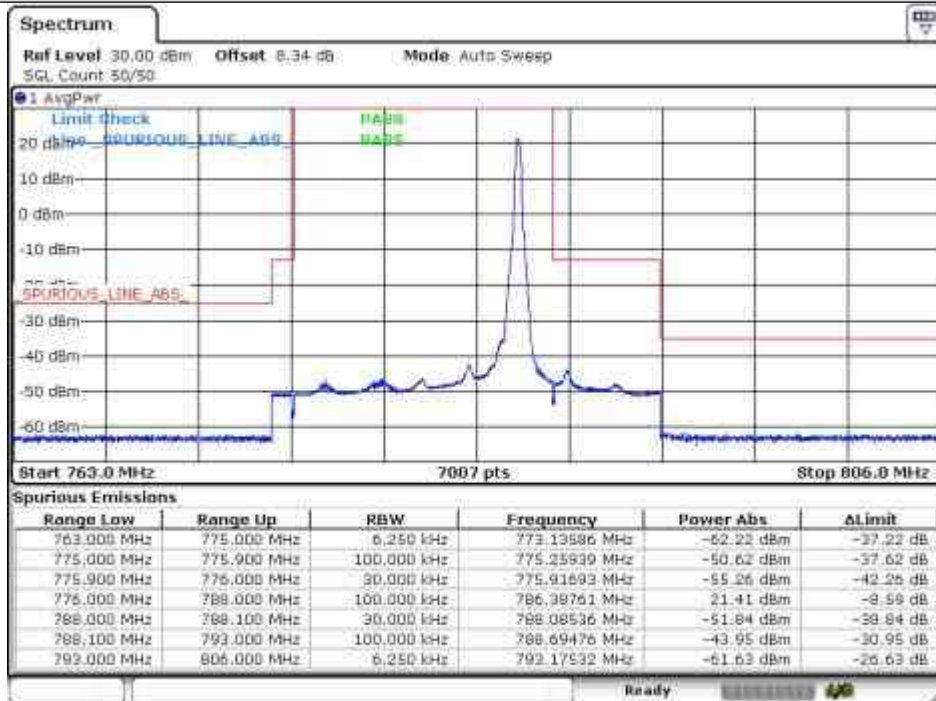


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Date: 24.AUG.2020 10:06:00

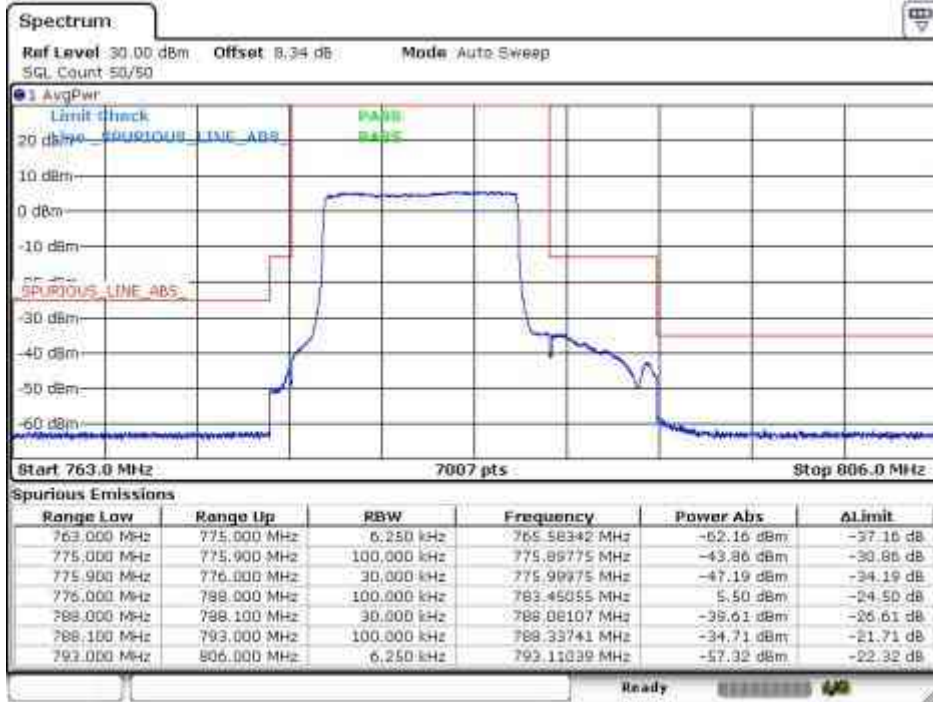
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Date: 24.AUG.2020 10:05:08



CA\_4A-13A\_100RB+50RB\_64QAM\_20300+23230\_100RB#0+50RB#0\_Band13



Date: 24 AUG 2020 10:04:07



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Laboratory

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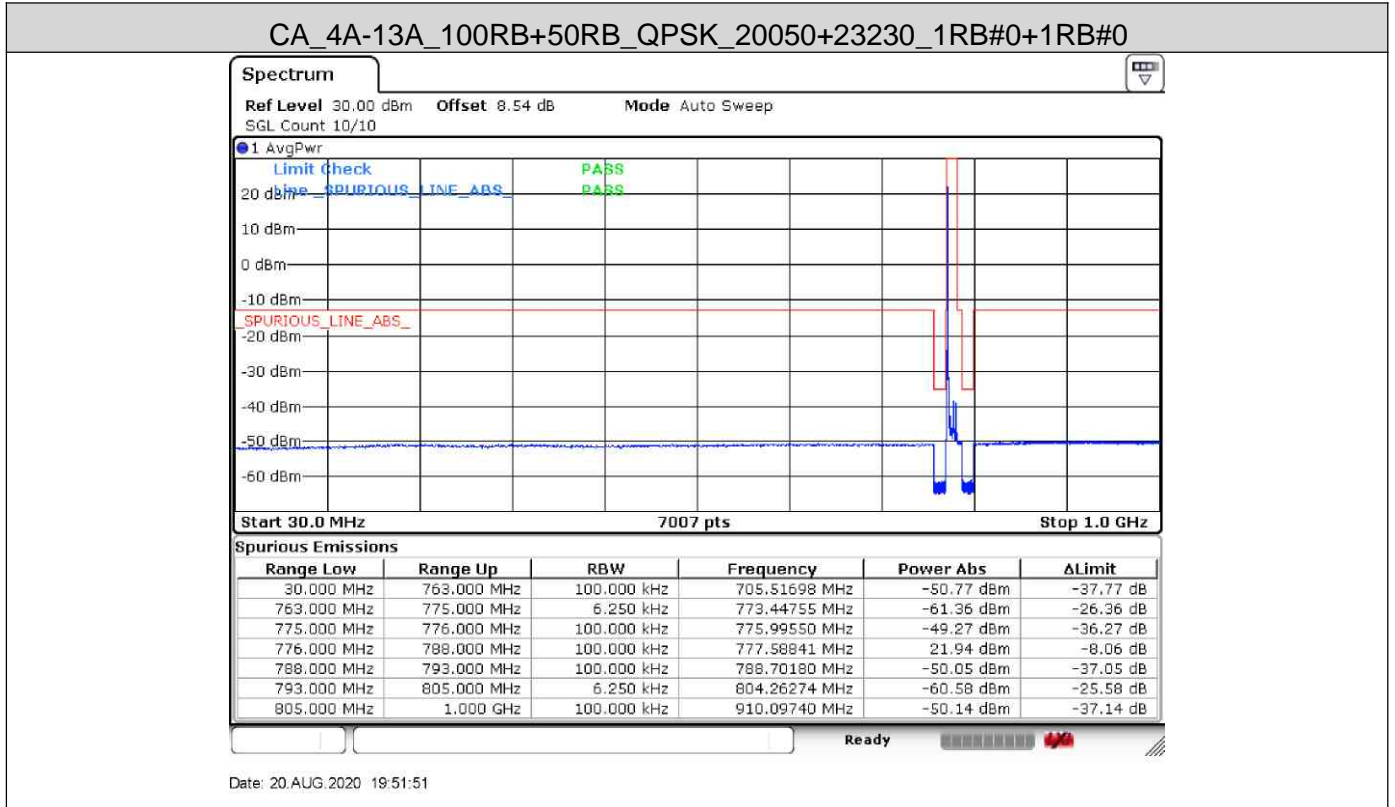
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

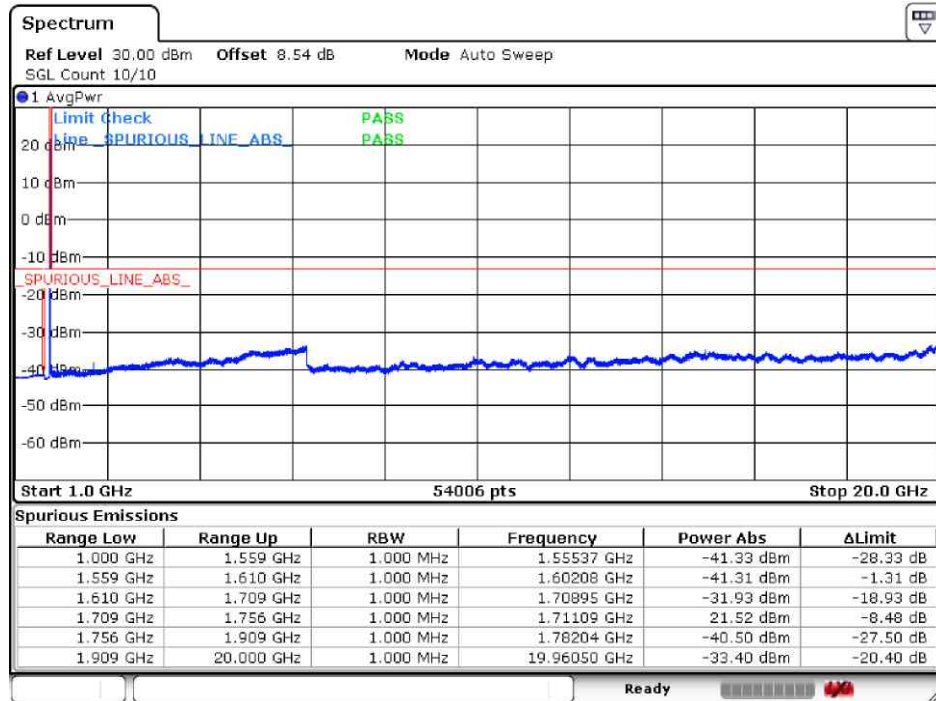
### 3 Spurious Emission at Antenna Terminal

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  $< RBW/2$  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

#### 3.1.1 Test Band = LTE Band CA\_4A-13A



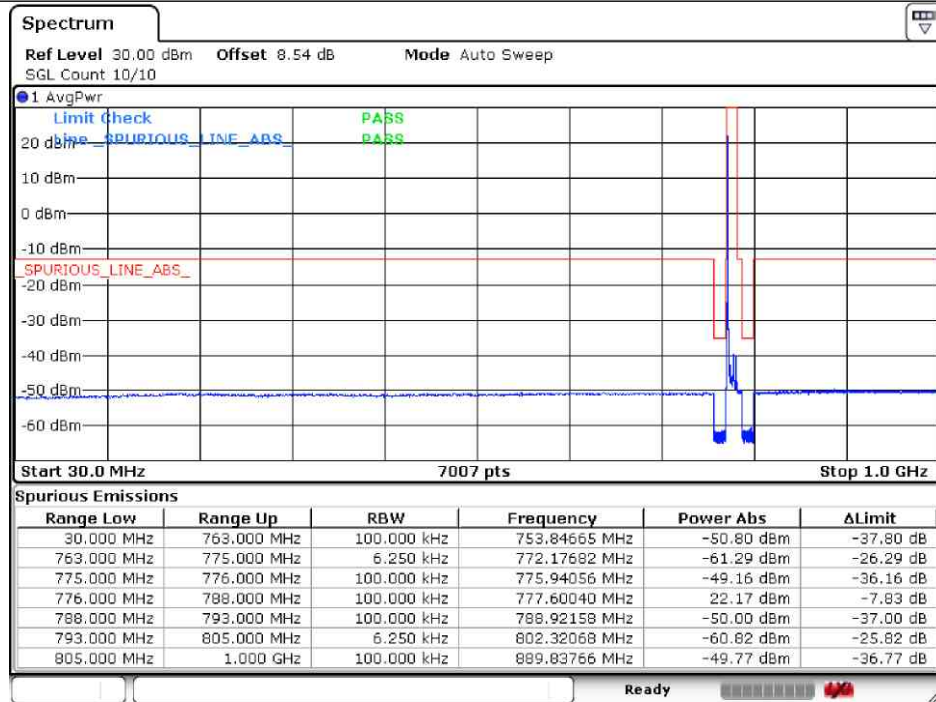


Date: 20.AUG.2020 19:53:19

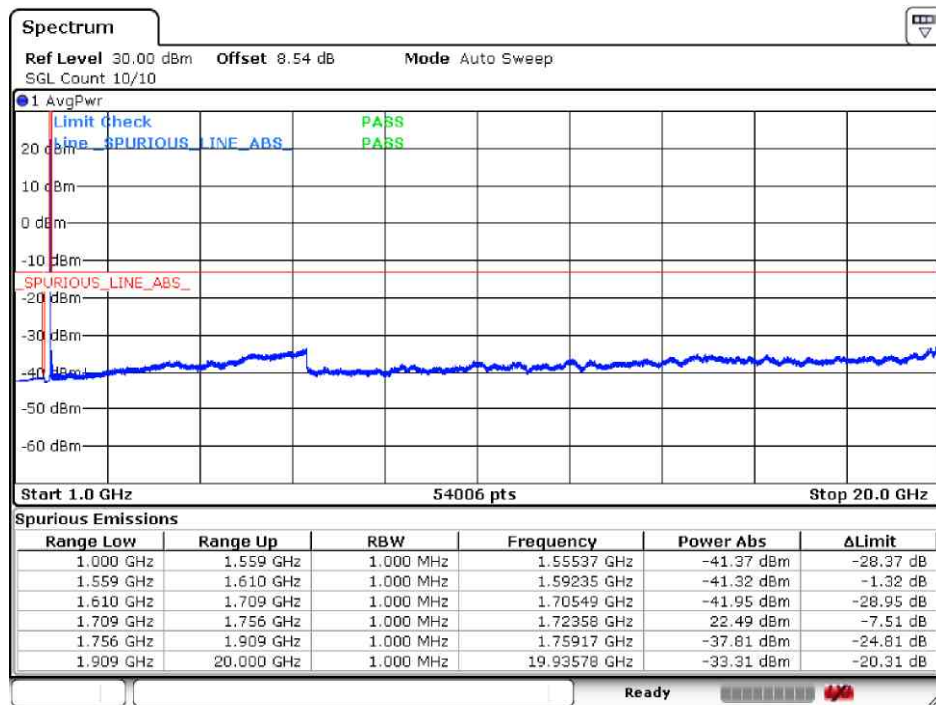




CA\_4A-13A\_100RB+50RB\_QPSK\_20175+23230\_1RB#0+1RB#0



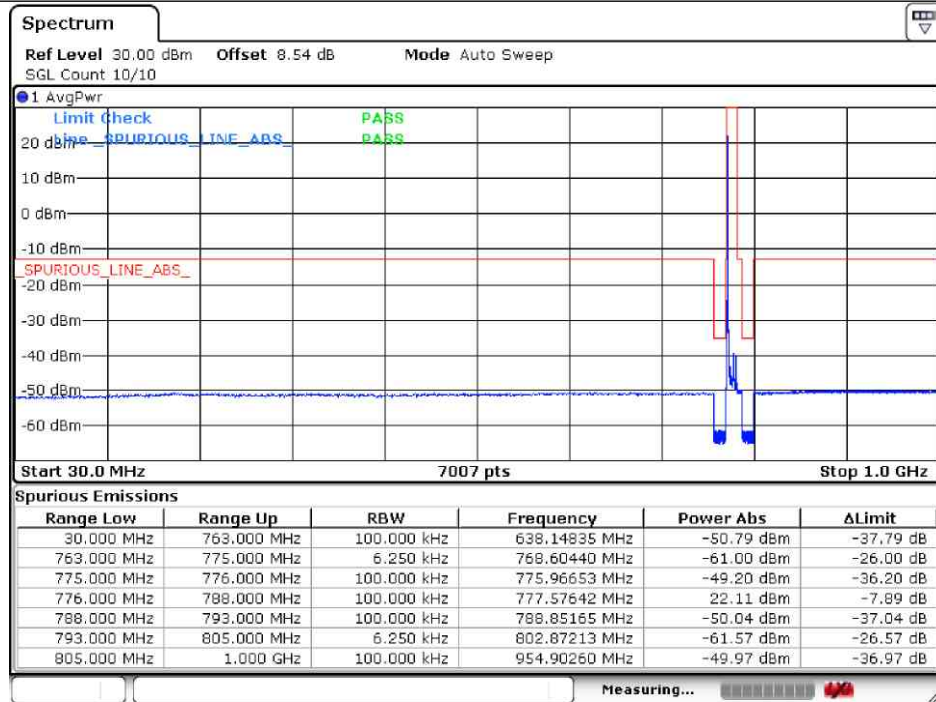
Date: 20.AUG.2020 20:19:29



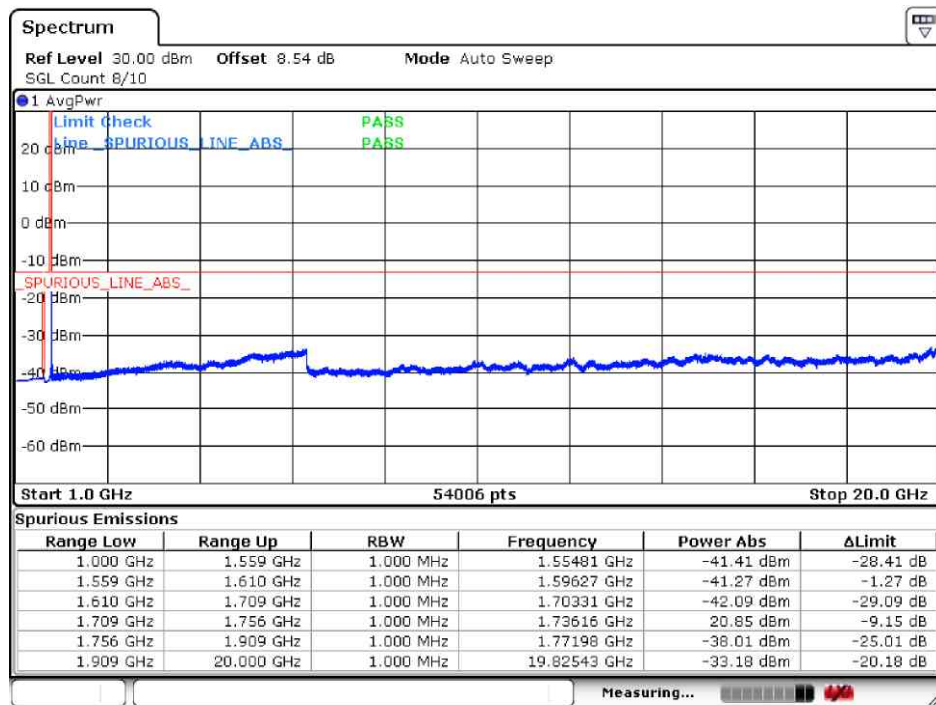
Date: 20.AUG.2020 20:20:55



CA\_4A-13A\_100RB+50RB\_QPSK\_23000+23230\_1RB#0+1RB#0



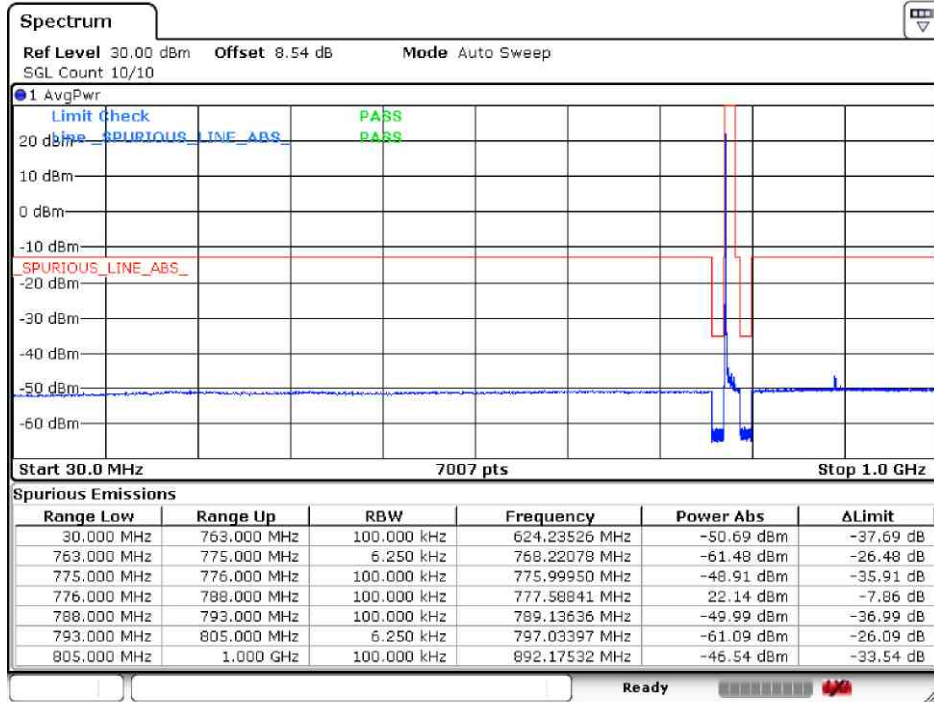
Date: 20.AUG.2020 20:24:40



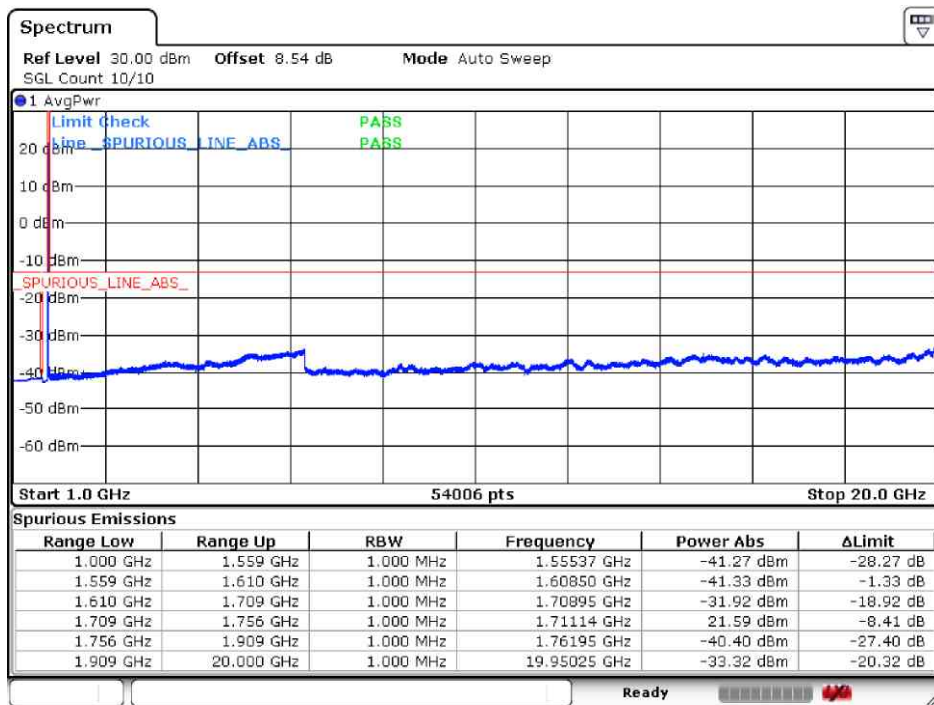
Date: 20.AUG.2020 20:25:26



CA\_4A-13A\_100RB+50RB\_16QAM\_20050+23230\_1RB#0+1RB#0



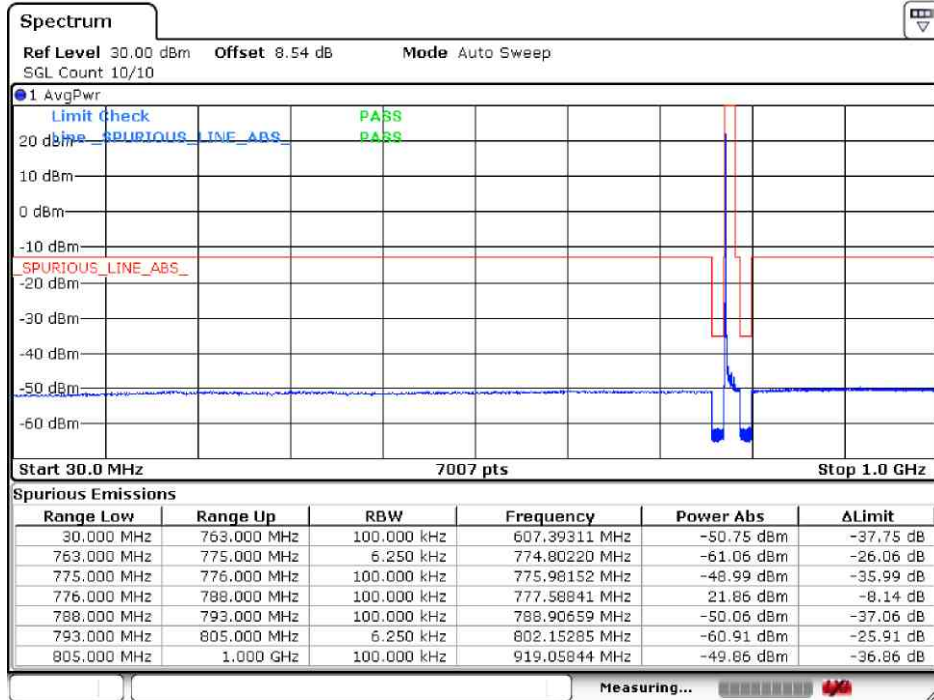
Date: 20.AUG.2020 20:10:38



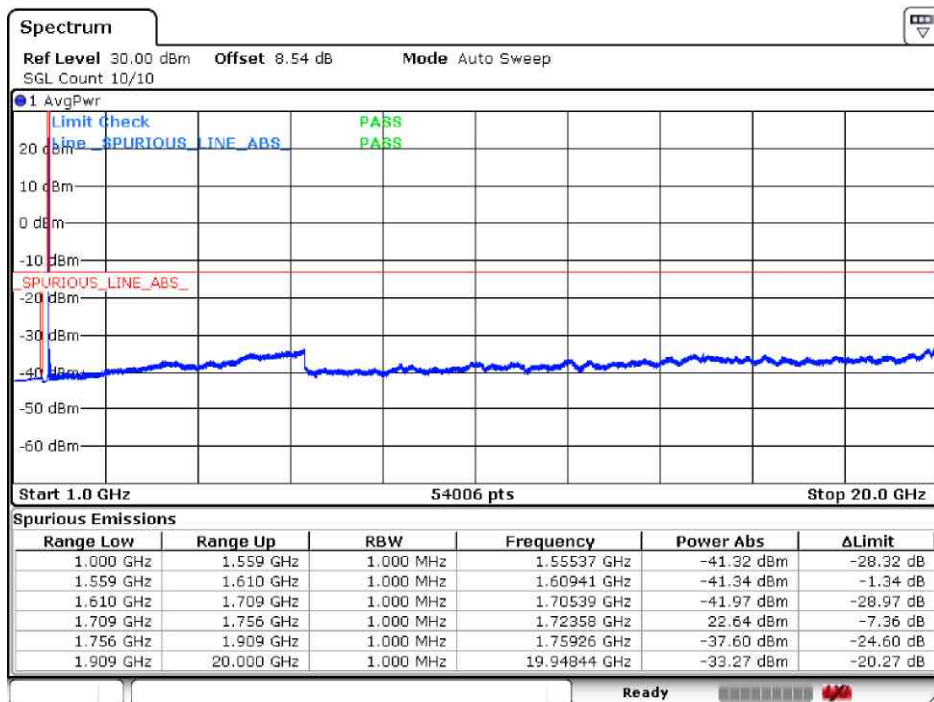
Date: 20.AUG.2020 20:11:43



CA\_4A-13A\_100RB+50RB\_16QAM\_20175+23230\_1RB#0+1RB#0



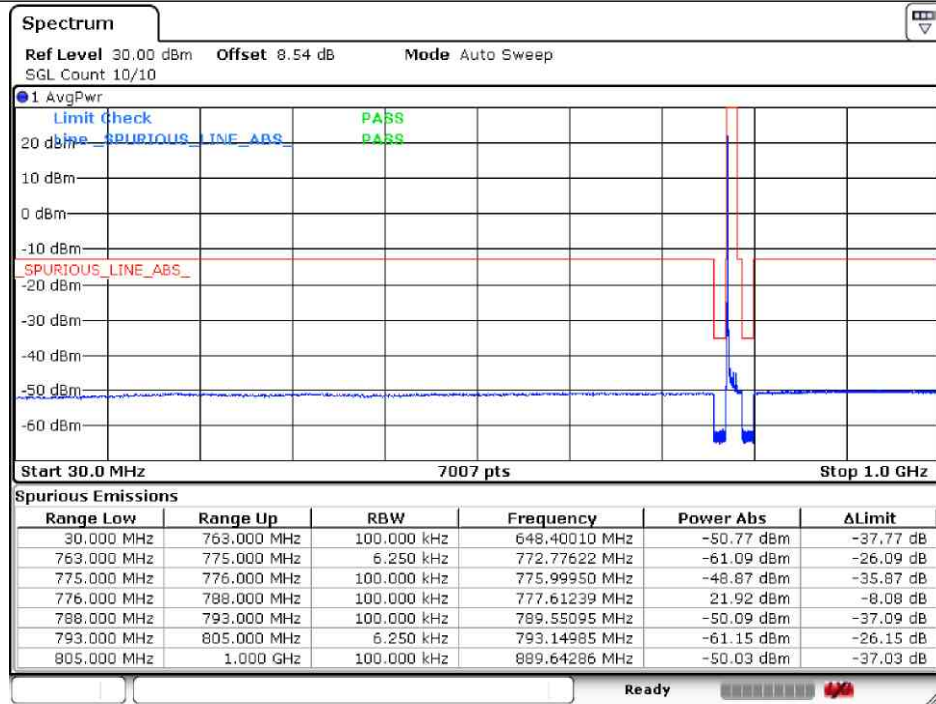
Date: 20.AUG.2020 20:21:51



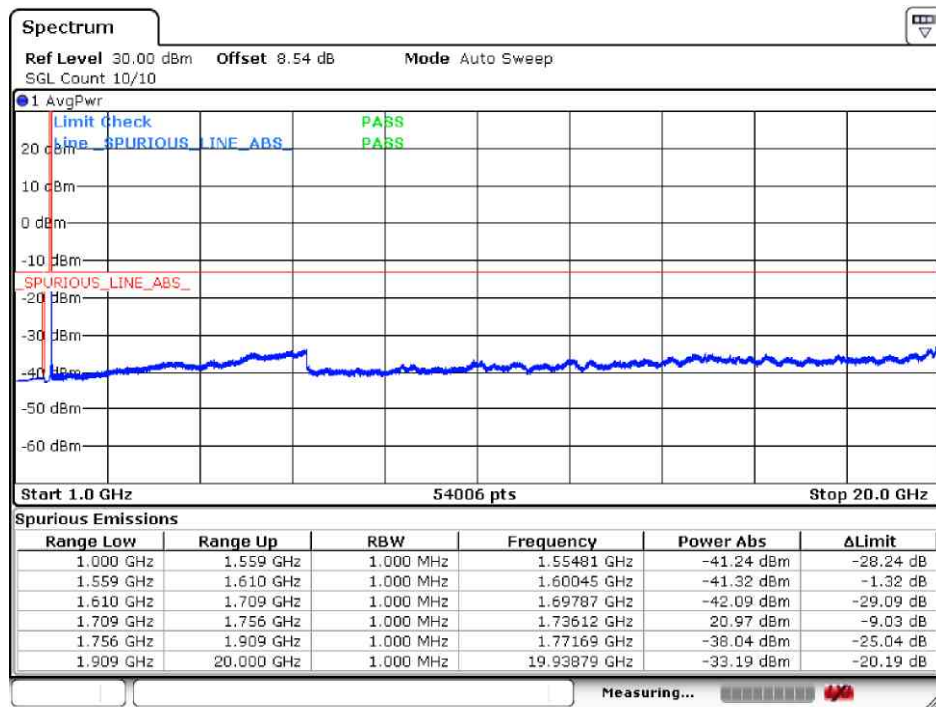
Date: 20.AUG.2020 20:23:26



CA\_4A-13A\_100RB+50RB\_16QAM\_23000+23230\_1RB#0+1RB#0



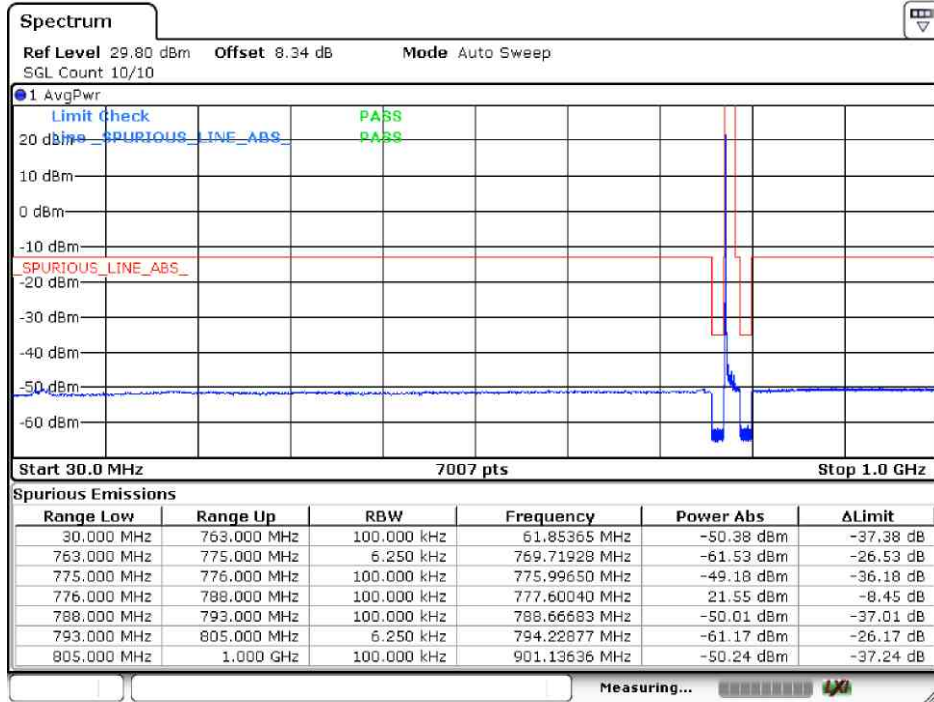
Date: 20.AUG.2020 20:29:18



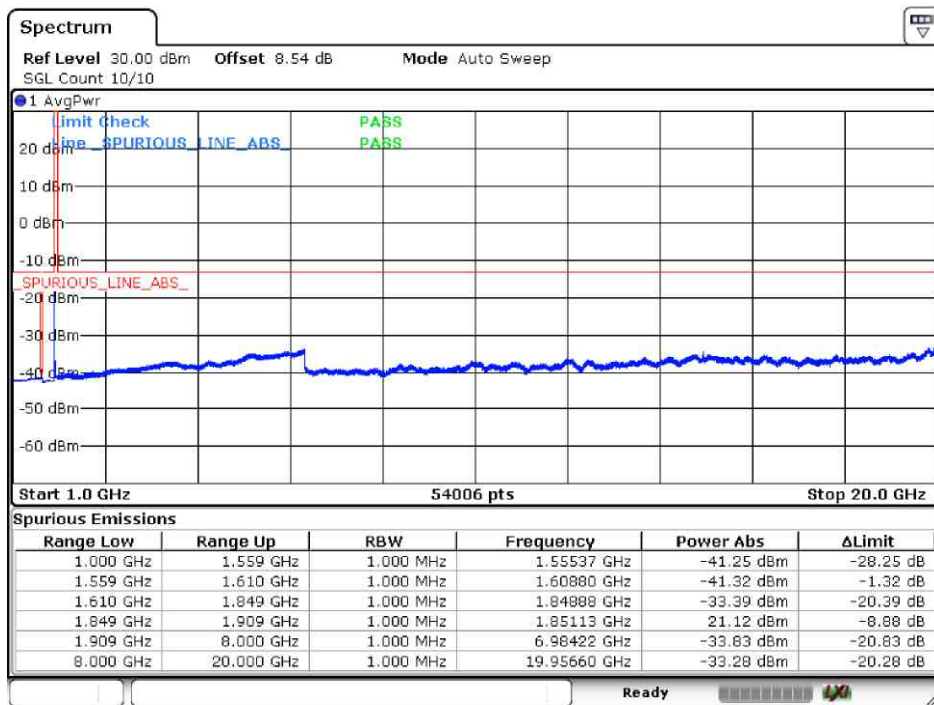
Date: 20.AUG.2020 20:30:00



CA\_4A-13A\_100RB+50RB\_64QAM\_20050+23230\_1RB#0+1RB#0



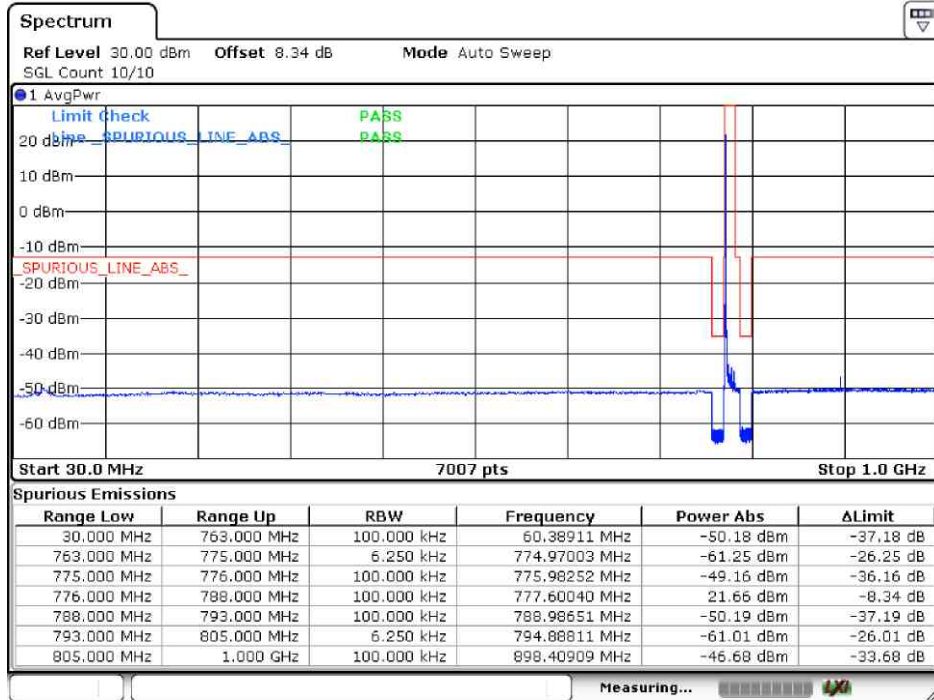
Date: 24.AUG.2020 09:40:36



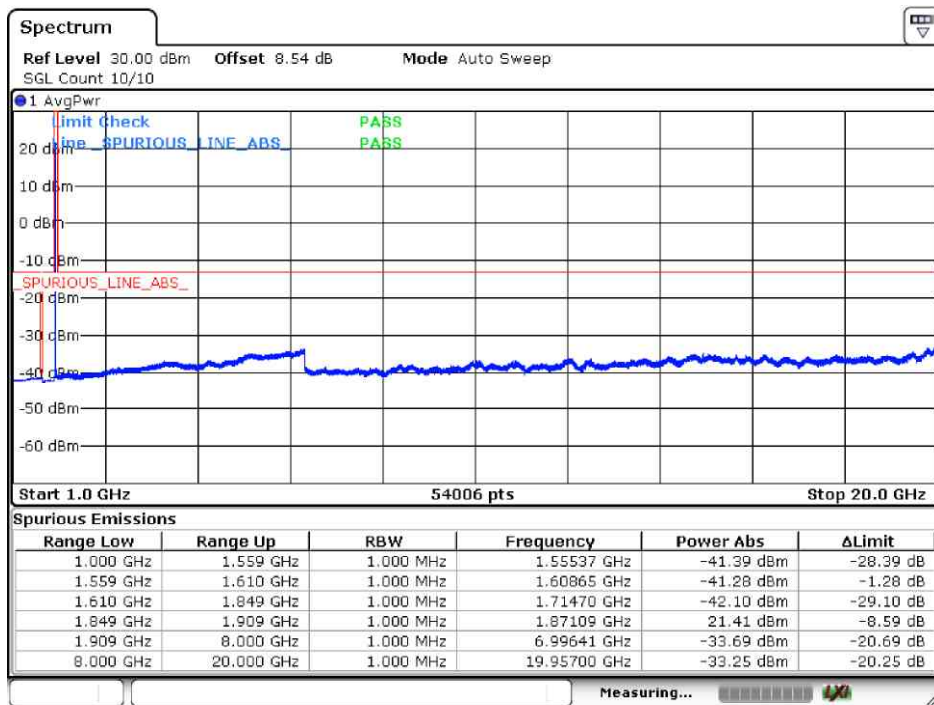
Date: 24.AUG.2020 09:41:30



CA\_4A-13A\_100RB+50RB\_64QAM\_20175+23230\_1RB#0+1RB#0



Date: 24.AUG.2020 09:42:58



Date: 24.AUG.2020 09:43:48







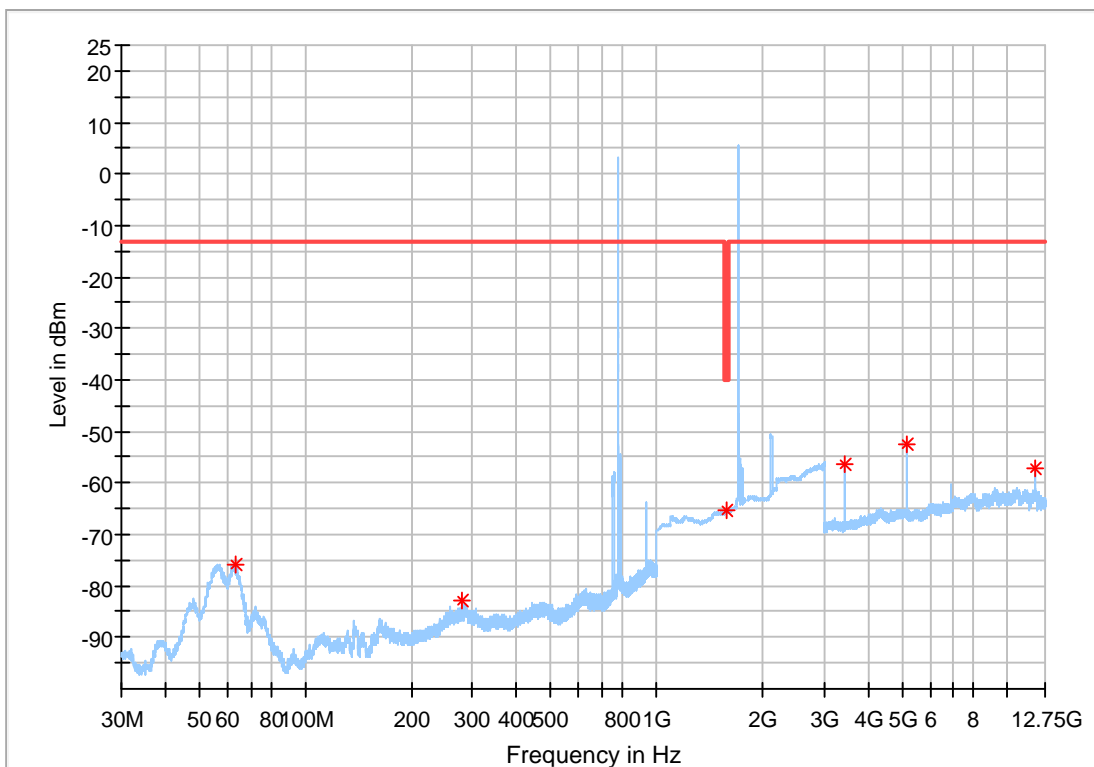


## 4. Field Strength of Spurious Radiation

### 4.1.1. Test Mode =LTE/TM1 20&10 MHz\_Ant Down

### 4.1.2. Test Channel = LCH\_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	-76.05	-13.00	63.05	---	---	200.0	H	243.0	-96.0
280.500000	-82.91	-13.00	69.91	---	---	200.0	H	0.0	-102.8
1585.500000	-65.45	-40.00	25.45	---	---	200.0	H	288.0	-88.0
3421.850000	-56.53	-13.00	43.53	---	---	200.0	H	45.0	-105.7
5133.300000	-52.58	-13.00	39.58	---	---	200.0	H	199.0	-101.8
11977.800000	-57.09	-13.00	44.09	---	---	200.0	H	307.0	-96.5

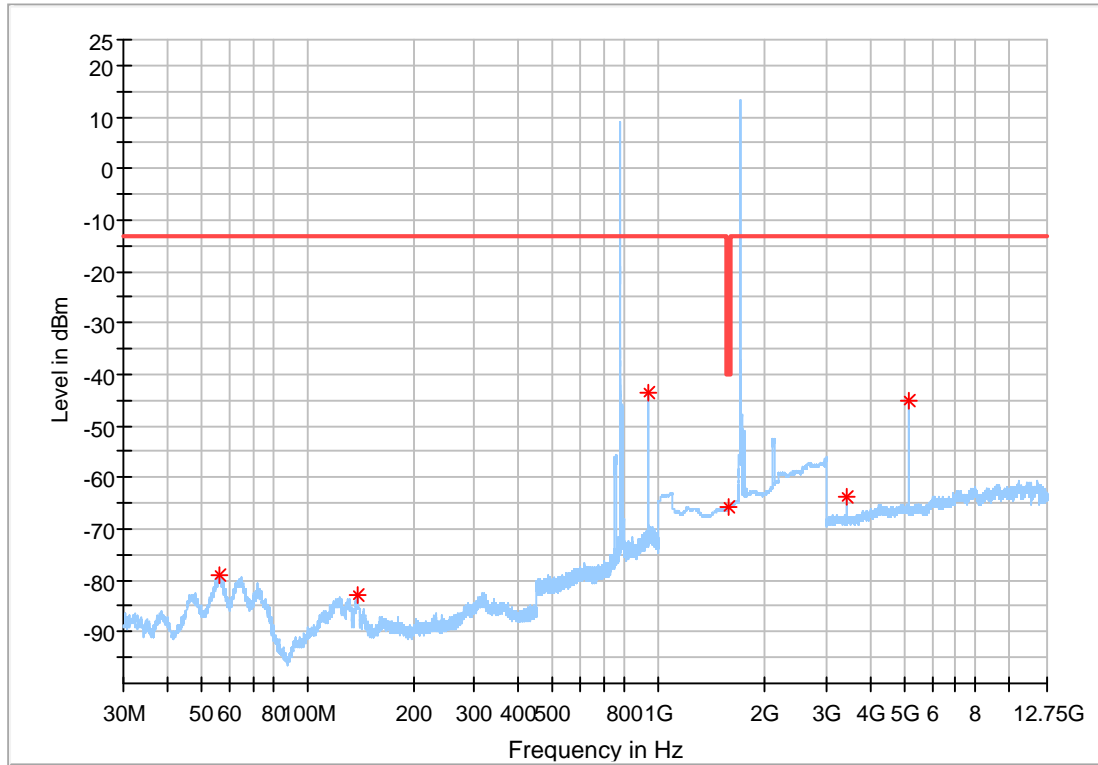


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**4.1.3. Test Channel = LCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

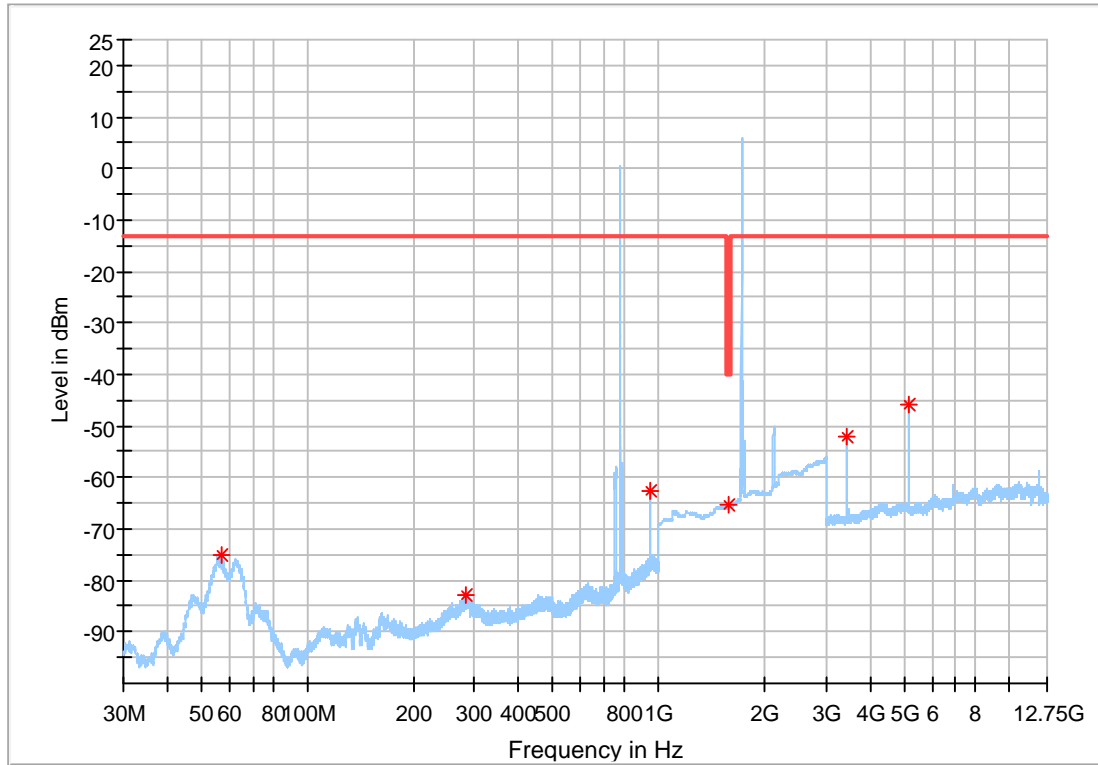
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.350000	-78.96	-13.00	65.96	---	---	200.0	V	128.0	-101.3
139.250000	-82.99	-13.00	69.99	---	---	200.0	V	147.0	-109.0
933.495833	-43.68	-13.00	30.68	---	---	200.0	V	102.0	-92.8
1581.000000	-65.84	-40.00	25.84	---	---	200.0	V	295.0	-88.3
3421.850000	-63.78	-13.00	50.78	---	---	200.0	V	320.0	-105.5
5133.300000	-45.05	-13.00	32.05	---	---	200.0	V	0.0	-101.8



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**4.1.4. Test Channel = MCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

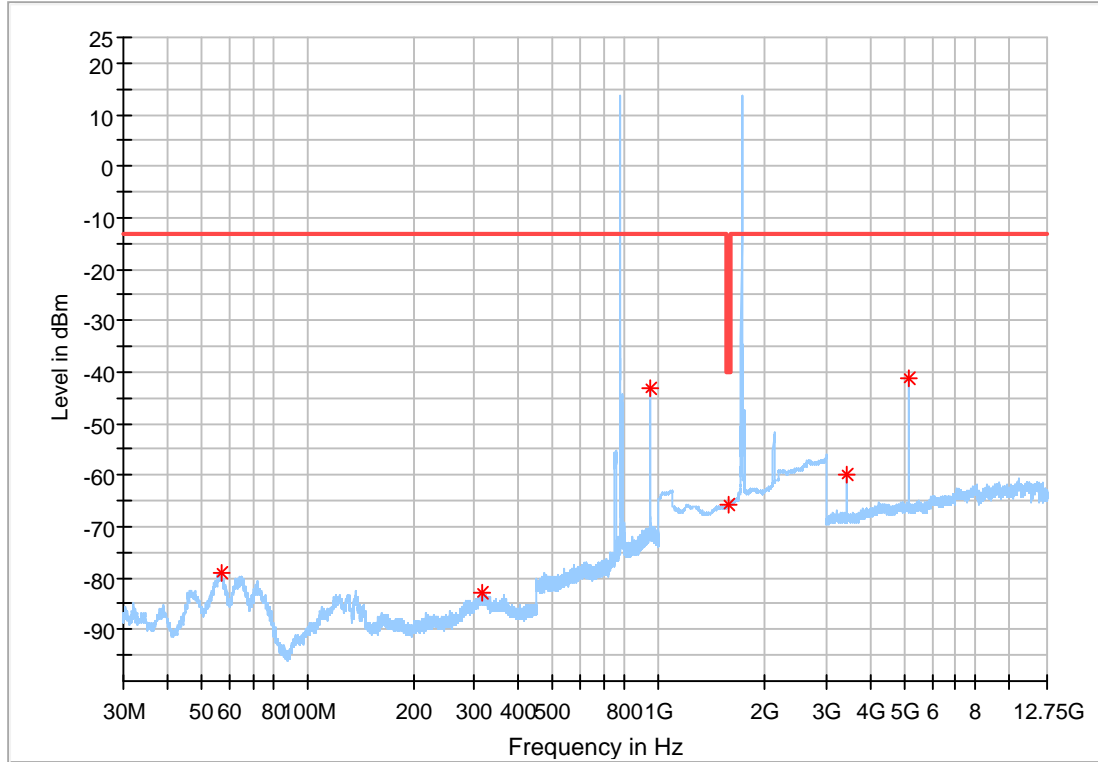
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.350000	-75.24	-13.00	62.24	---	---	200.0	H	359.0	-96.2
282.050000	-82.75	-13.00	69.75	---	---	200.0	H	359.0	-102.8
946.054167	-62.54	-13.00	49.54	---	---	200.0	H	201.0	-92.0
1586.000000	-65.52	-40.00	25.52	---	---	200.0	H	358.0	-87.9
3446.875000	-52.02	-13.00	39.02	---	---	200.0	H	345.0	-105.5
5170.675000	-45.95	-13.00	32.95	---	---	200.0	H	82.0	-101.8



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**4.1.5. Test Channel = MCH\_Vertical**

Full Spectrum



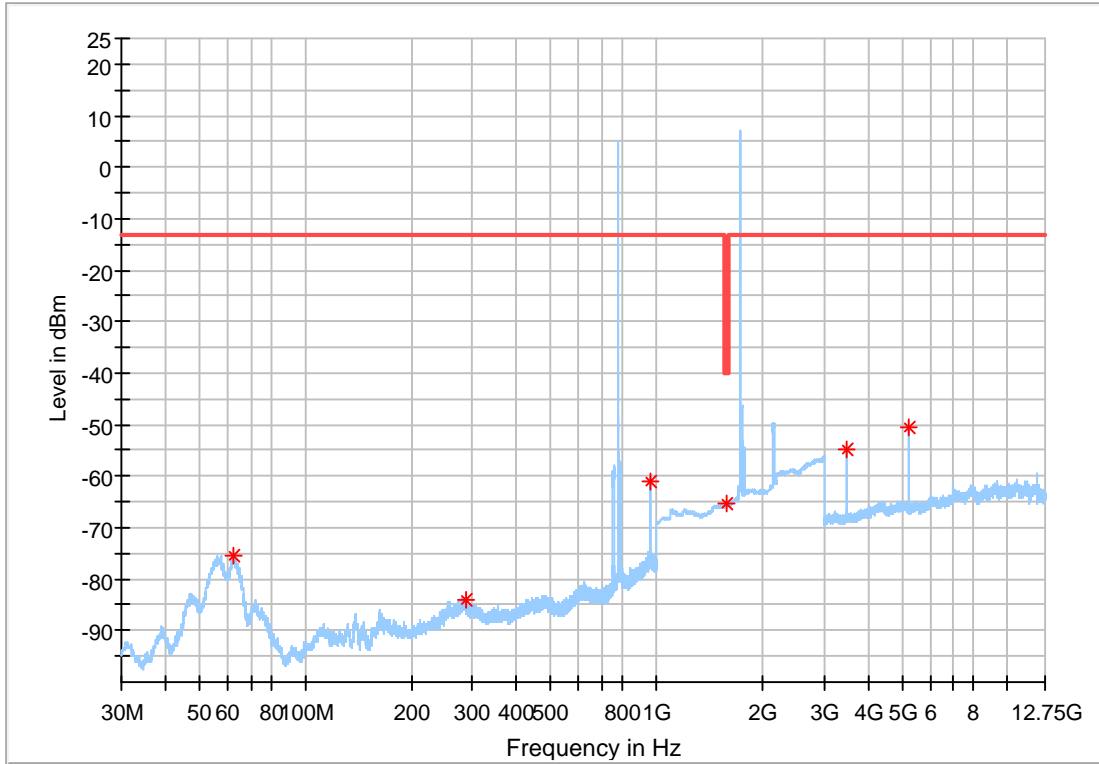
**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.200000	-79.16	-13.00	66.16	---	---	200.0	V	319.0	-101.3
312.850000	-83.03	-13.00	70.03	---	---	200.0	V	234.0	-102.0
946.008333	-43.00	-13.00	30.00	---	---	200.0	V	89.0	-92.3
1586.500000	-65.85	-40.00	25.85	---	---	200.0	V	341.0	-88.2
3447.200000	-59.97	-13.00	46.97	---	---	200.0	V	10.0	-105.4
5170.675000	-41.12	-13.00	28.12	---	---	200.0	V	359.0	-101.9



**4.1.6. Test Channel = HCH\_Horizontal**

Full Spectrum



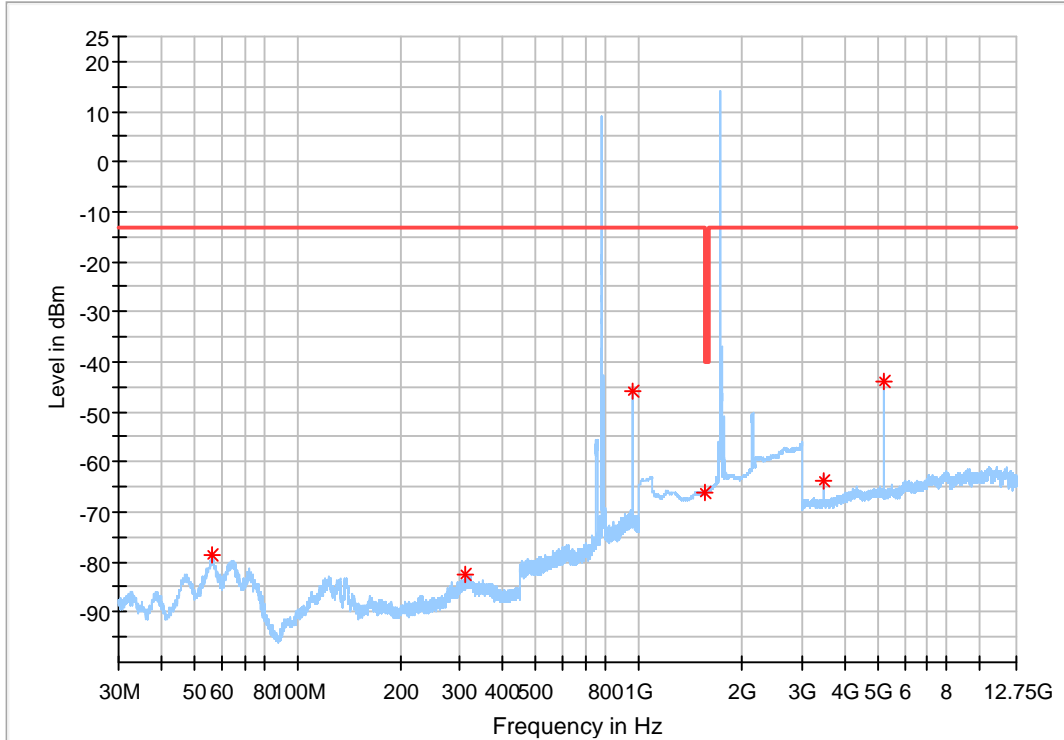
**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.400000	-75.32	-13.00	62.32	---	---	200.0	H	283.0	-95.0
288.450000	-83.89	-13.00	70.89	---	---	200.0	H	0.0	-102.9
958.475000	-60.96	-13.00	47.96	---	---	200.0	H	197.0	-91.8
1586.000000	-65.52	-40.00	25.52	---	---	200.0	H	99.0	-87.9
3471.900000	-54.66	-13.00	41.66	---	---	200.0	H	346.0	-105.4
5208.375000	-50.48	-13.00	37.48	---	---	200.0	H	93.0	-101.9



**4.1.7. 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)
56.650000	-78.71	-13.00	65.71	---	---	200.0	V	293.0	-101.2
312.350000	-82.56	-13.00	69.56	---	---	200.0	V	207.0	-102.0
958.520833	-45.92	-13.00	32.92	---	---	200.0	V	43.0	-92.3
1567.500000	-65.93	-40.00	25.93	---	---	200.0	V	3.0	-88.5
3471.575000	-63.96	-13.00	50.96	---	---	200.0	V	13.0	-105.4
5208.375000	-43.81	-13.00	30.81	---	---	200.0	V	0.0	-101.9

**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

