



# Appendix B

## E-UTRA Band 38



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.62	23.74	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.63	23.75	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.58	23.70	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.77	22.89	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.77	22.89	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.67	22.79	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.77	22.89	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.35	23.47	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.48	23.60	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.32	23.44	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.50	22.62	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.49	22.61	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.49	22.61	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.43	22.55	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.24	23.36	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.43	23.55	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.33	23.45	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.49	22.61	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.46	22.58	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.45	22.57	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.43	22.55	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.88	23.00	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.88	23.00	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.75	22.87	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.80	21.92	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.77	21.89	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.66	21.78	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.80	21.92	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.50	22.62	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.59	22.71	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.42	22.54	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.40	21.52	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.52	21.64	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.26	21.38	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.47	21.59	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.39	22.51	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.38	22.50	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.42	22.54	33.00	PASS



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Band38	5MHz	16QAM	38225	12RB#0	20.35	21.47	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.33	21.45	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.39	21.51	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.41	21.53	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.83	23.95	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.64	23.76	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.58	23.70	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.78	22.90	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.77	22.89	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.74	22.86	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.82	22.94	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.50	23.62	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.45	23.57	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.43	23.55	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.54	22.66	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.55	22.67	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.48	22.60	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.45	22.57	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.44	23.56	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.31	23.43	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.40	23.52	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.49	22.61	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.40	22.52	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.40	22.52	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.33	22.45	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.93	23.05	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.80	22.92	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.70	22.82	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.93	22.05	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.78	21.90	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.81	21.93	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.92	22.04	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.64	22.76	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.57	22.69	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.48	22.60	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.63	21.75	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.50	21.62	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.56	21.68	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.56	21.68	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.48	22.60	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.39	22.51	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.47	22.59	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.51	21.63	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.42	21.54	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.43	21.55	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.48	21.60	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.72	23.84	33.00	PASS



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Band38	15MHz	QPSK	37825	1RB#38	22.55	23.67	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.40	23.52	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.76	22.88	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.65	22.77	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.65	22.77	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.76	22.88	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.45	23.57	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.46	23.58	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.27	23.39	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.52	22.64	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.55	22.67	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.52	22.64	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.47	22.59	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.36	23.48	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.36	23.48	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.29	23.41	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.36	22.48	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.55	22.67	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.24	22.36	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.12	22.24	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.89	23.01	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.77	22.89	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.57	22.69	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.69	21.81	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	20.62	21.74	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.58	21.70	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.79	21.91	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.59	22.71	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.55	22.67	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.34	22.46	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.49	21.61	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.49	21.61	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.26	21.38	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.45	21.57	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.43	22.55	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.39	22.51	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.34	22.46	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.37	21.49	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.31	21.43	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	19.99	21.11	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.14	21.26	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.48	23.60	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.72	23.84	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.22	23.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.79	22.91	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.67	22.79	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.63	22.75	33.00	PASS



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Band38	20MHz	QPSK	37850	100RB#0	21.71	22.83	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.30	23.42	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.55	23.67	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.06	23.18	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.54	22.66	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.48	22.60	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.45	22.57	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.57	22.69	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.19	23.31	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.47	23.59	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.10	23.22	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.45	22.57	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.29	22.41	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.20	22.32	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.43	22.55	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.67	22.79	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.81	22.93	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.38	22.50	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.88	22.00	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.76	21.88	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.74	21.86	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.77	21.89	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.52	22.64	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.58	22.70	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.19	22.31	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.60	21.72	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.51	21.63	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.48	21.60	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.53	21.65	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.34	22.46	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.56	22.68	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.18	22.30	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.46	21.58	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.39	21.51	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.35	21.47	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.42	21.54	33.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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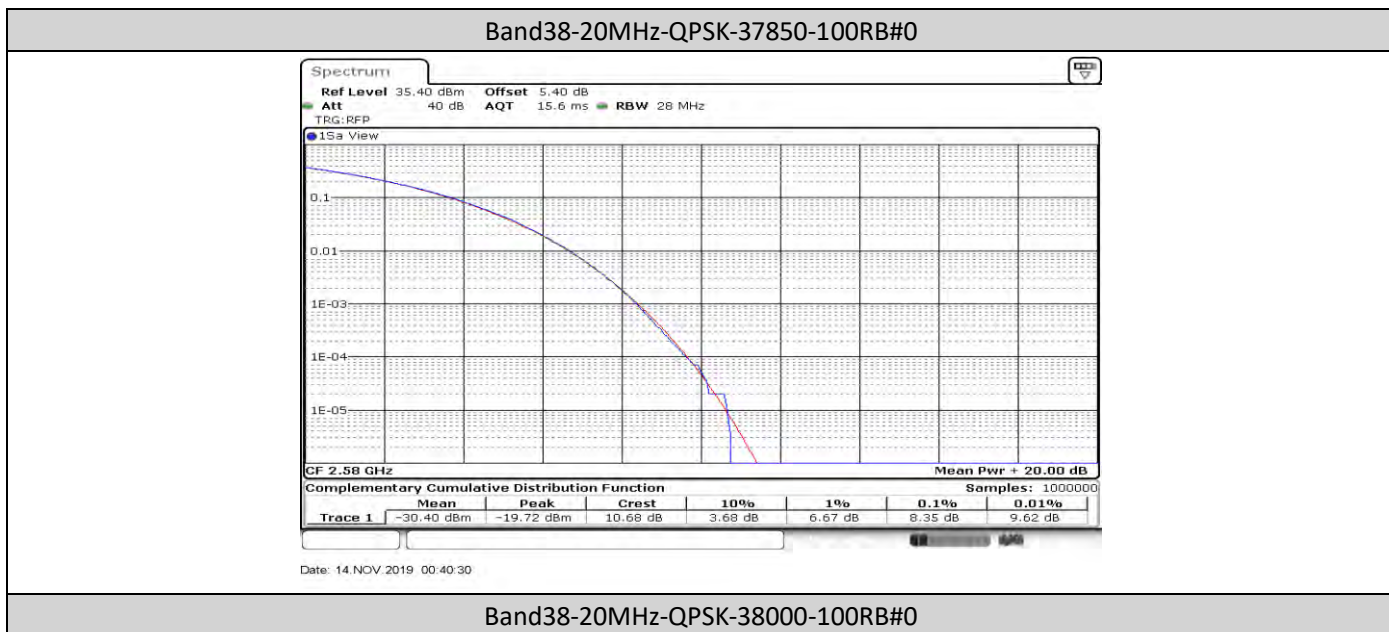


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

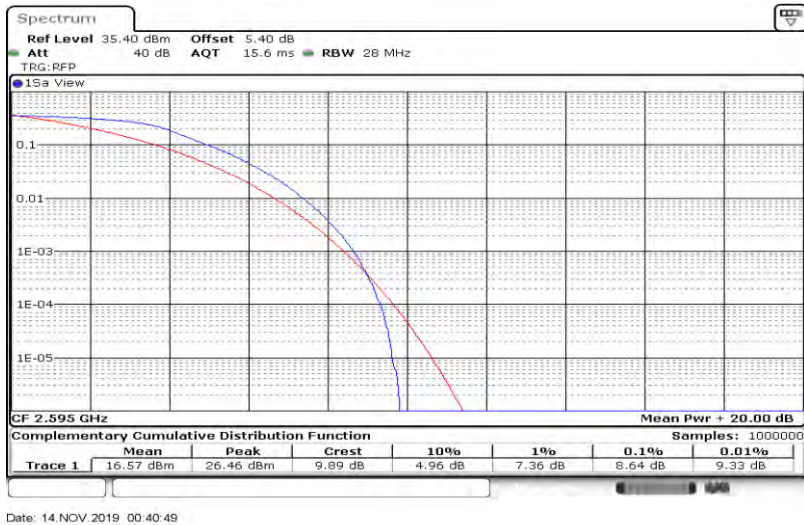
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.35	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.64	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.52	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.45	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.30	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.19	13	PASS

### 2.2. Test Plots



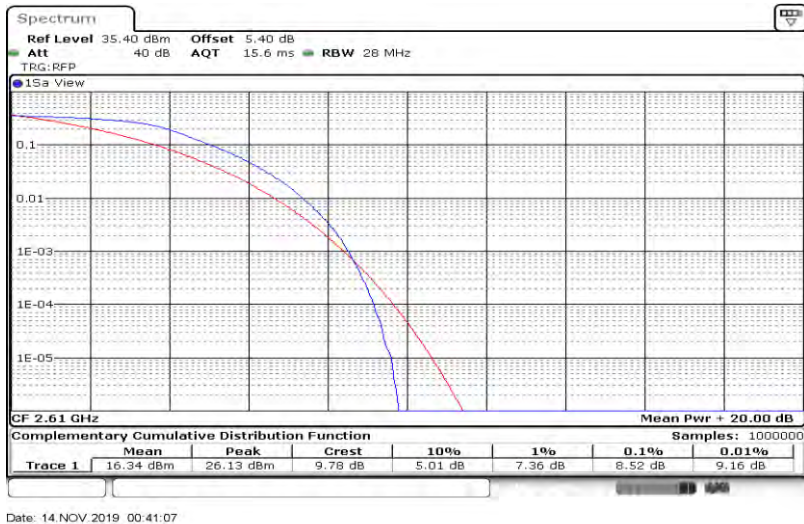
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Date: 14.NOV.2019 00:40:49

**Band38-20MHz-QPSK-38150-100RB#0**



Date: 14.NOV.2019 00:41:07

**Band38-20MHz-16QAM-37850-100RB#0**

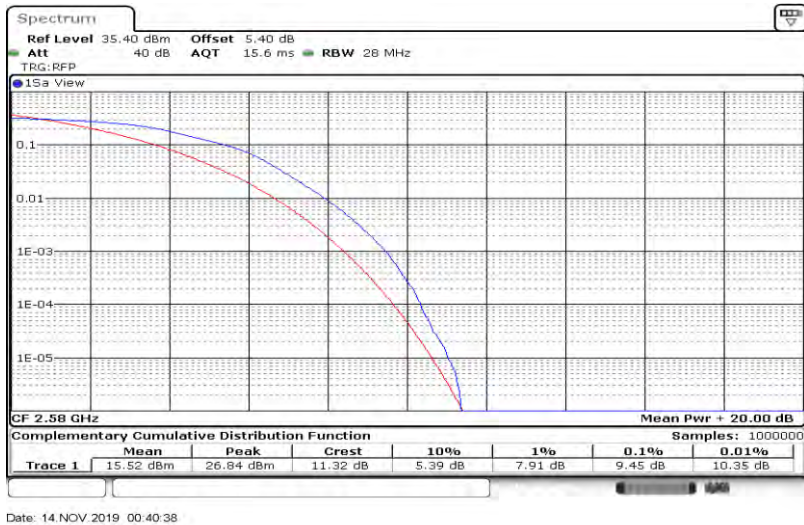


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Shenzhen Branch

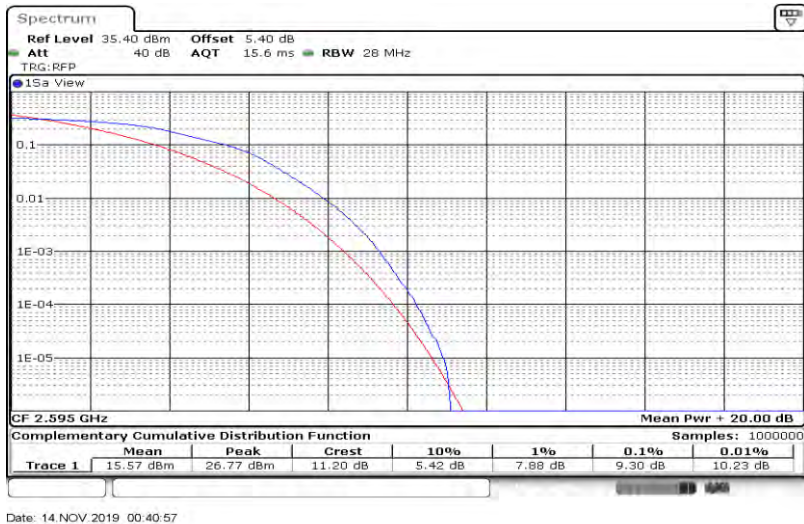
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com





Date: 14.NOV.2019 00:40:38

**Band38-20MHz-16QAM-38000-100RB#0**



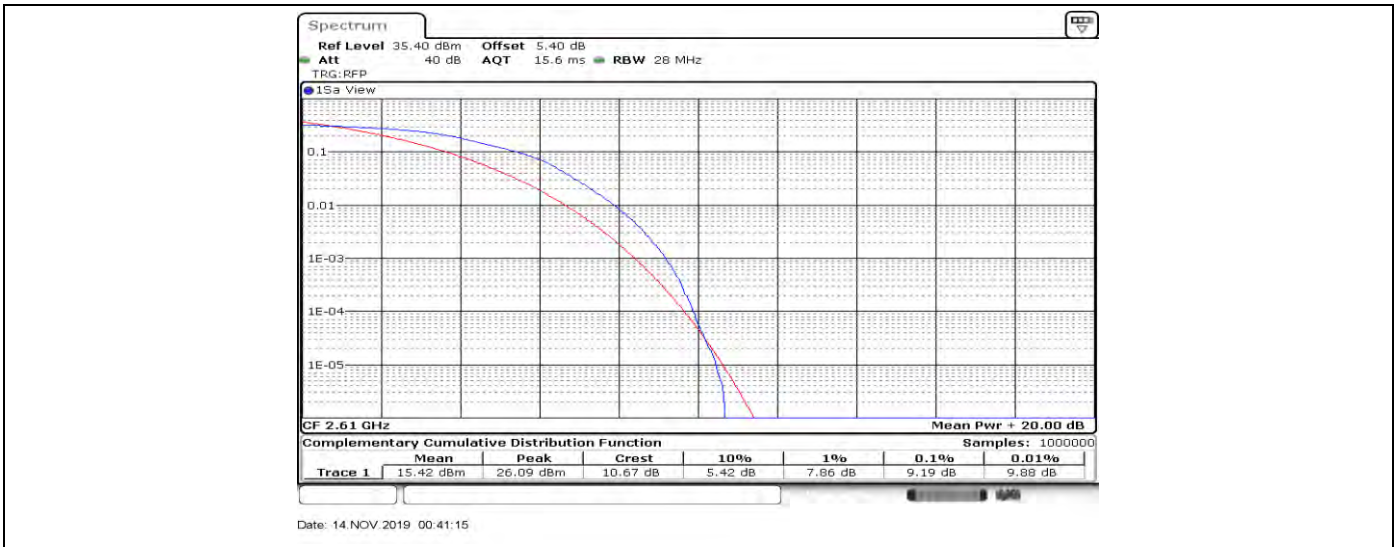
Date: 14.NOV.2019 00:40:57

**Band38-20MHz-16QAM-38150-100RB#0**



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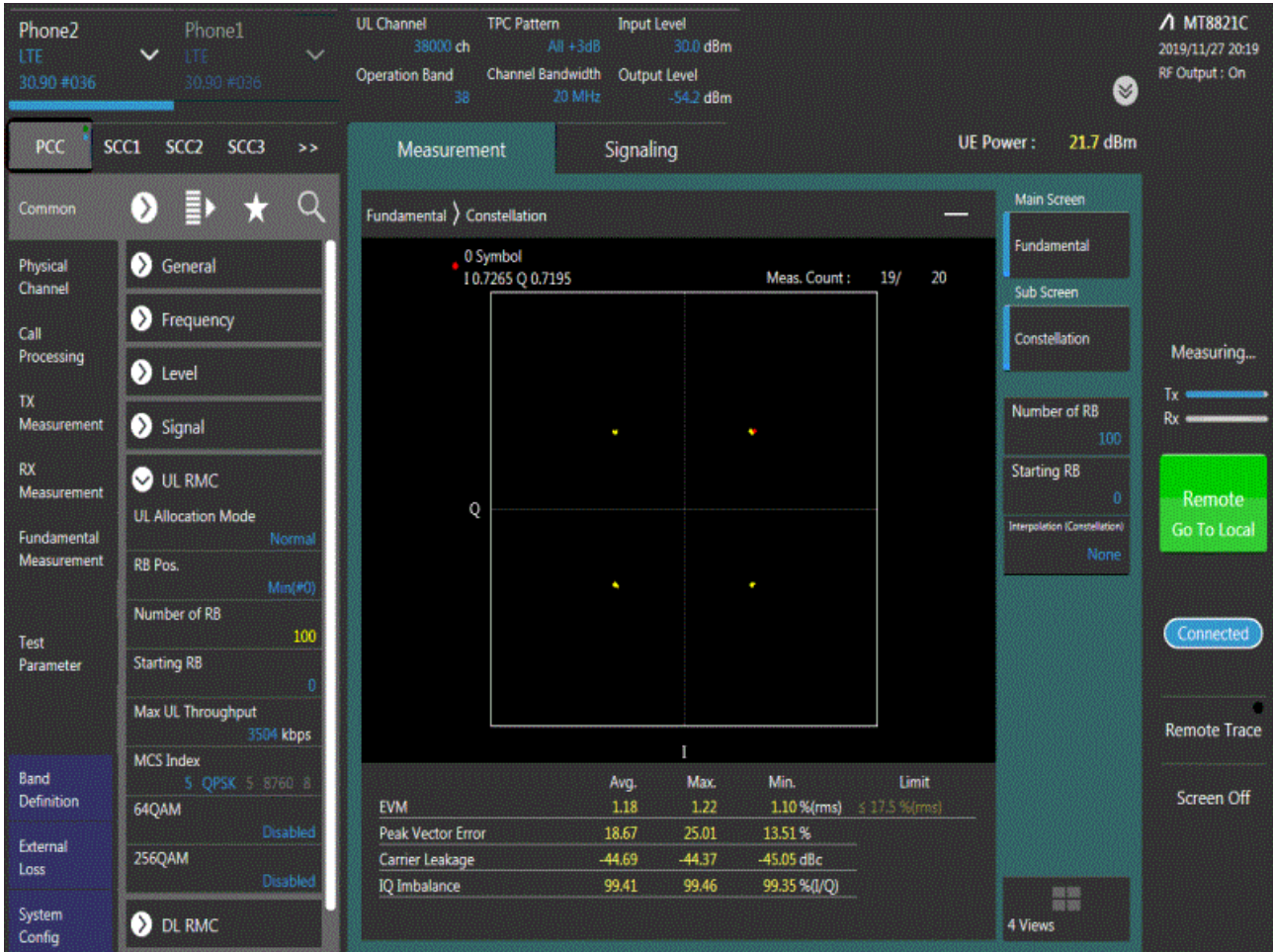
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



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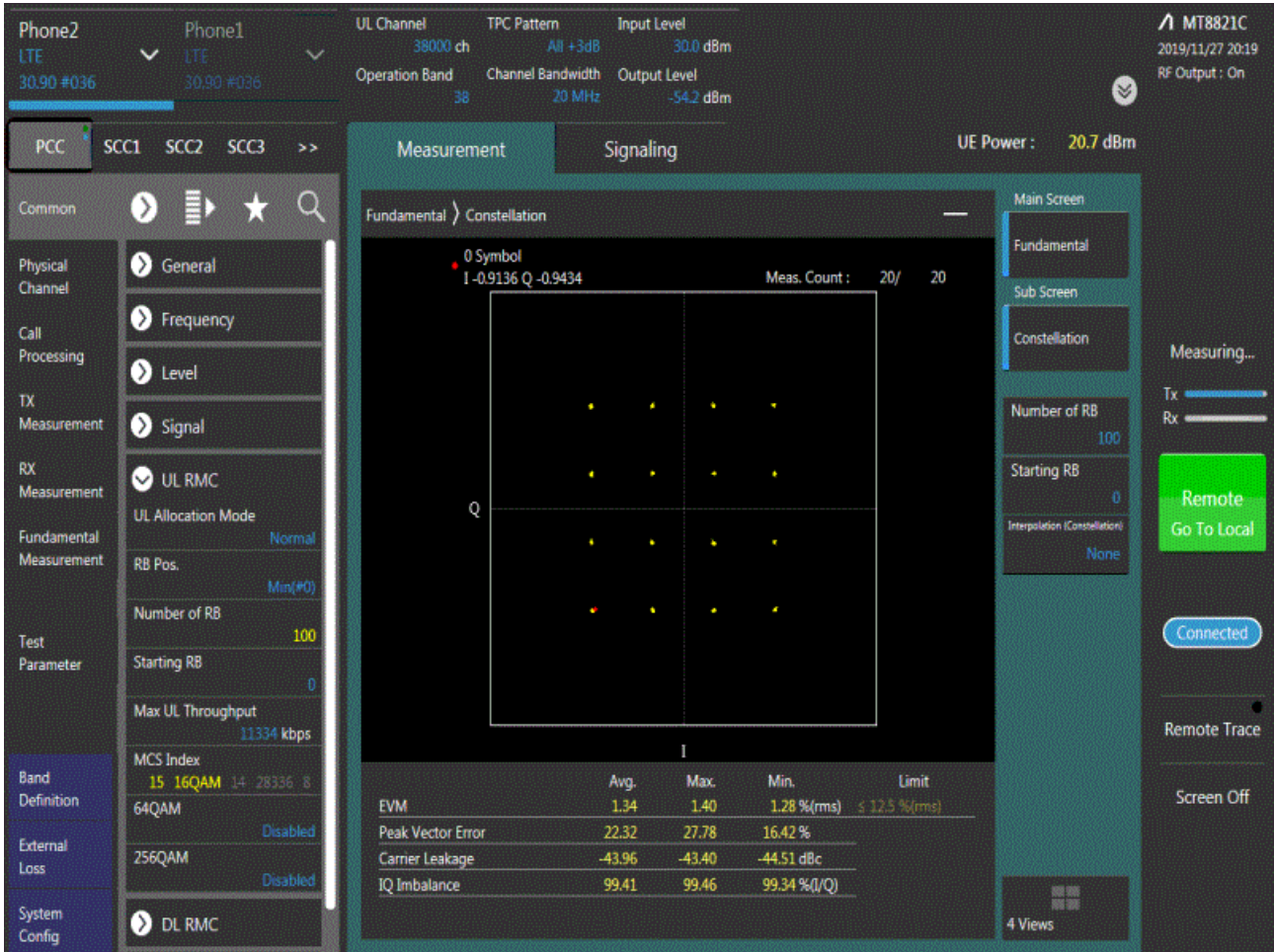
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### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.466	4.880	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.820	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.456	4.850	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.466	4.830	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.466	4.940	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.456	4.840	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.951	9.660	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.931	10.020	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.931	10.040	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.931	10.680	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.951	9.700	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.931	10.480	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.457	15.540	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.457	15.270	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	15.660	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.516	16.170	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.516	15.960	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.210	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.862	19.960	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.862	20.440	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.862	19.840	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.862	19.440	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	19.680	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.920	PASS

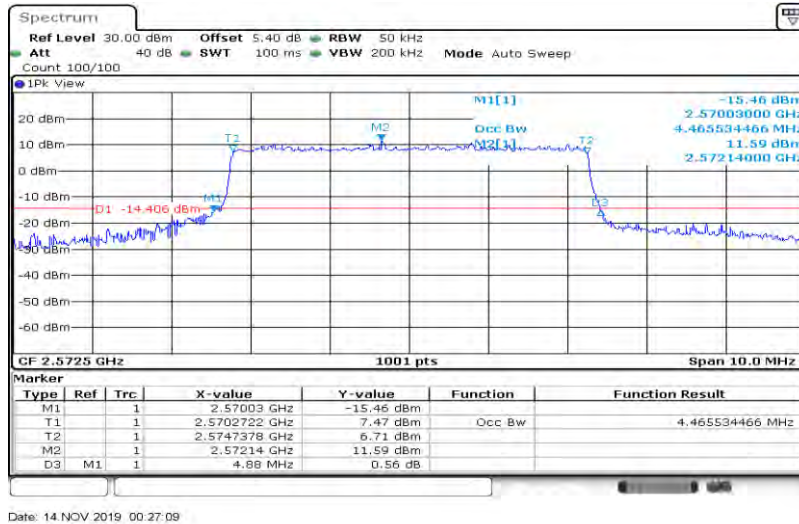


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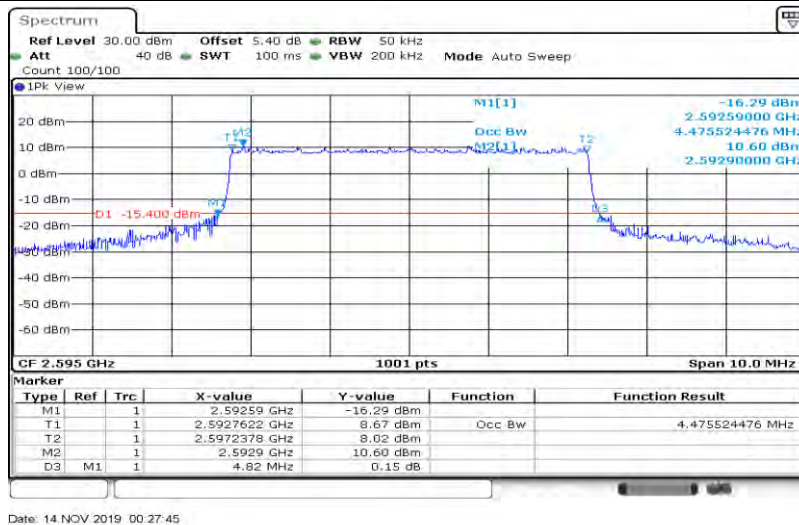
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### 4.2. Test Plots

**Band38-5MHz-QPSK-37775-25RB#0-4.466**



**Band38-5MHz-QPSK-38000-25RB#0-4.476**



**Band38-5MHz-QPSK-38225-25RB#0-4.456**

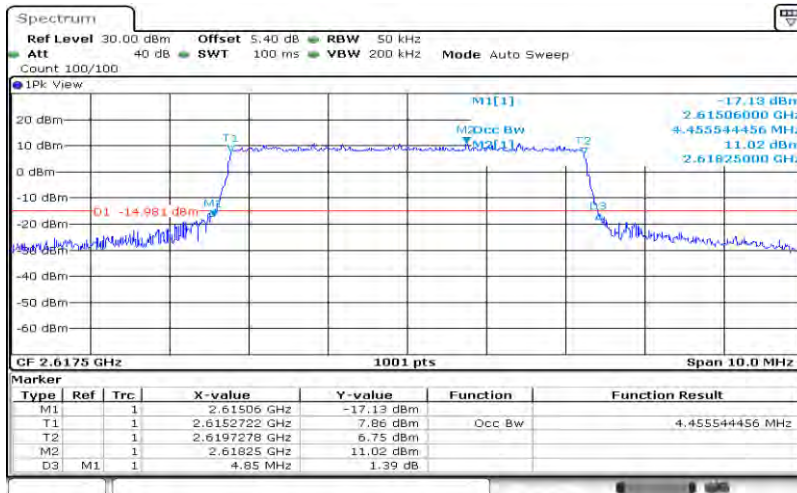


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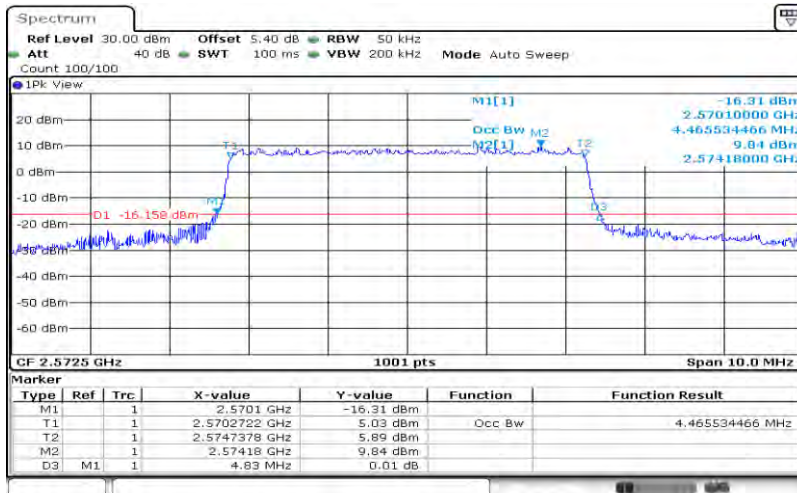
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Date: 14 NOV 2019 00:28:21

**Band38-5MHz-16QAM-3775-25RB#0-4.466**

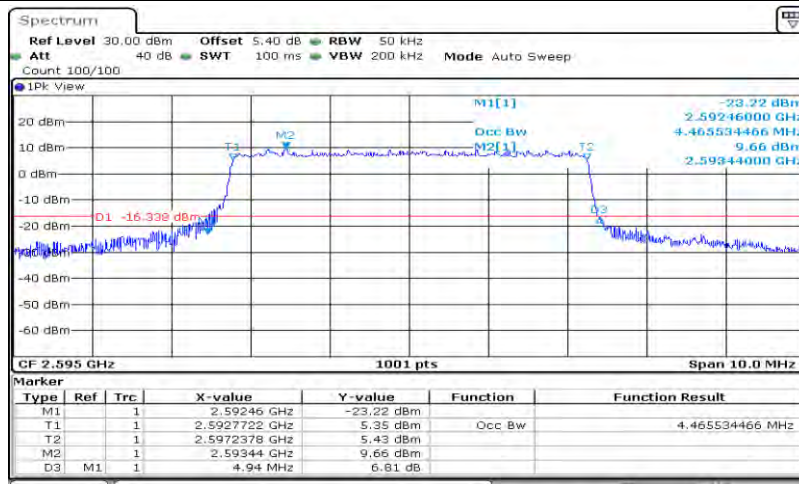


Date: 14 NOV 2019 00:27:26

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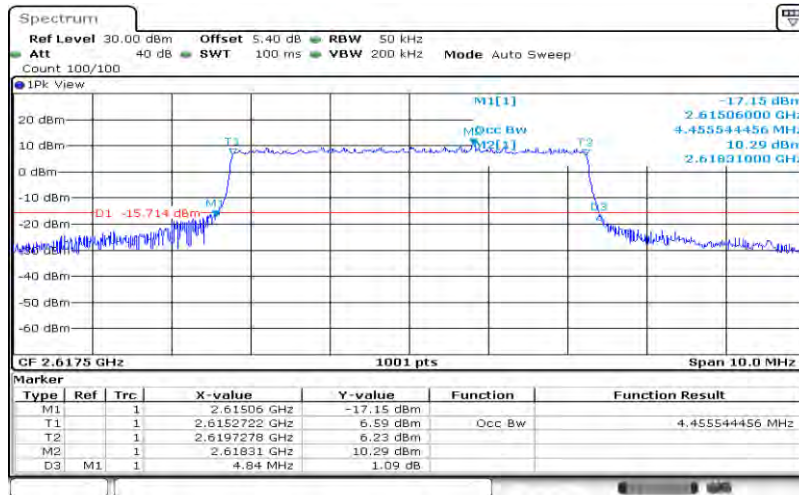


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Date: 14.NOV.2019 00:28:02

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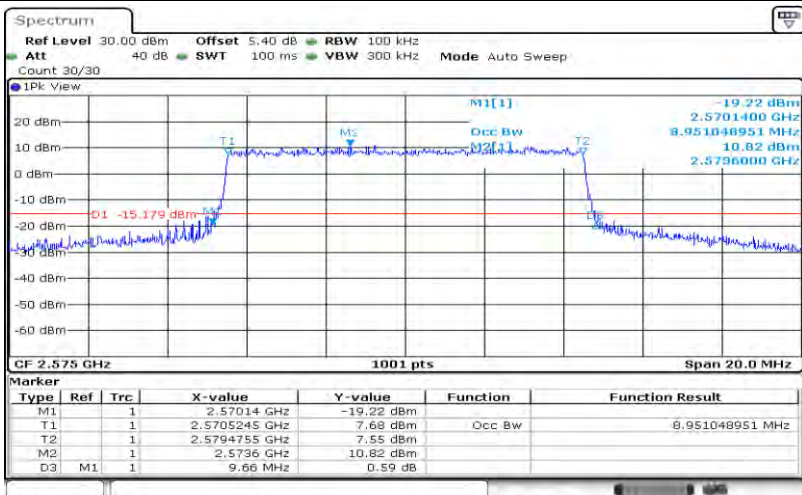


Date: 14.NOV.2019 00:28:37

**Band38-10MHz-QPSK-37800-50RB#0-8.951**

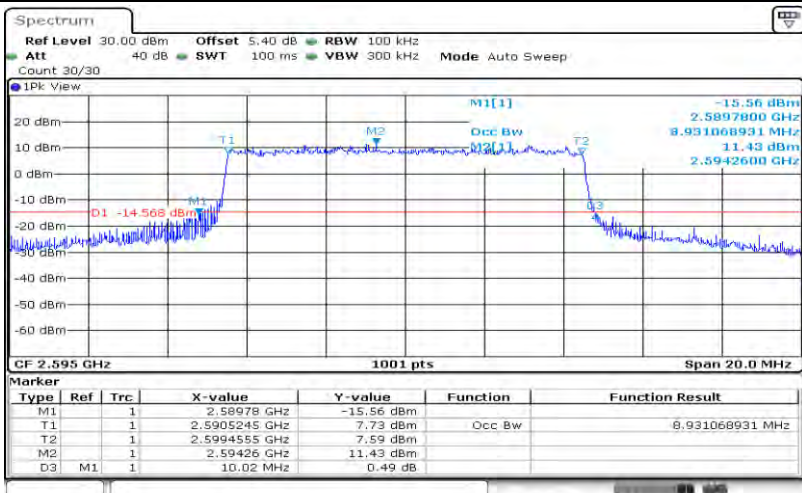


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Date: 14.NOV.2019 00:30:12

Band38-10MHz-QPSK-38000-50RB#0-8.931



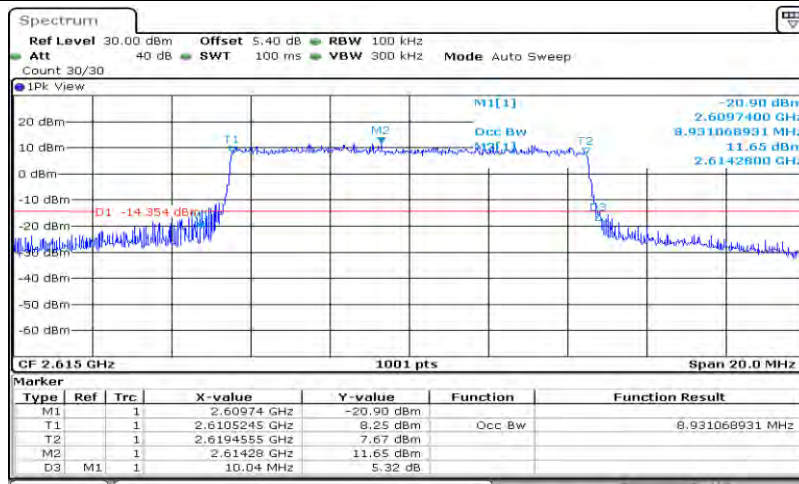
Date: 14.NOV.2019 00:31:44

Band38-10MHz-QPSK-38200-50RB#0-8.931



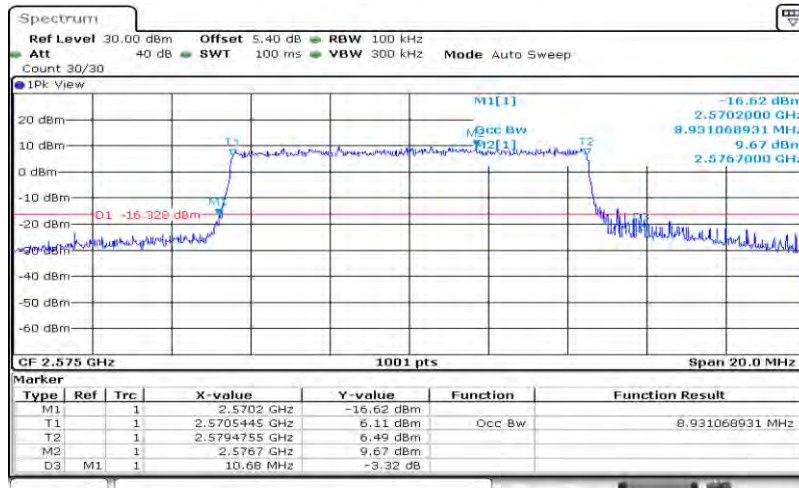
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Date: 14 NOV 2019 00:32:13

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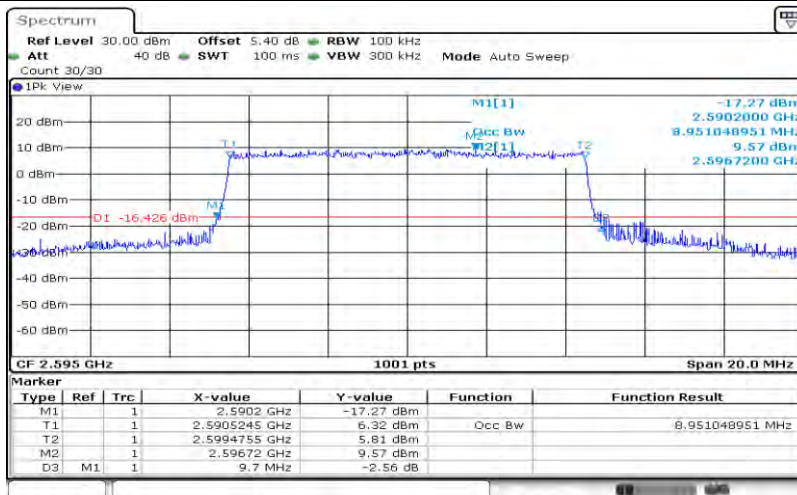


Date: 14 NOV 2019 00:30:21

**Band38-10MHz-16QAM-38000-50RB#0-8.951**

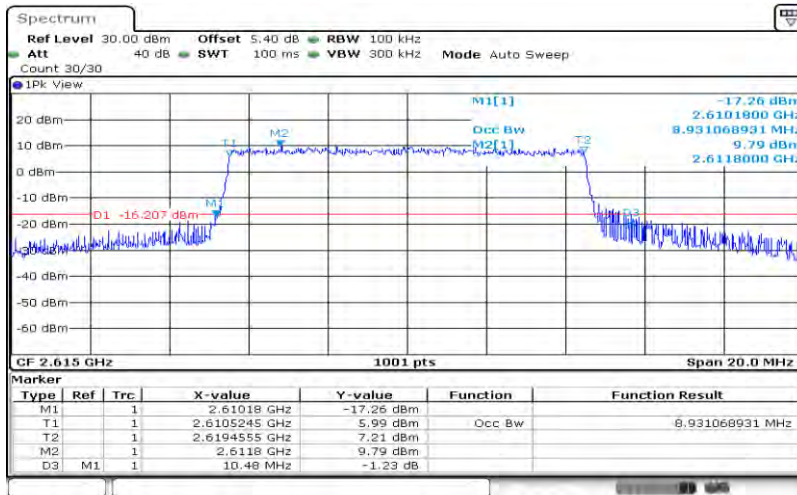


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Band38-10MHz-16QAM-38200-50RB#0-8.931

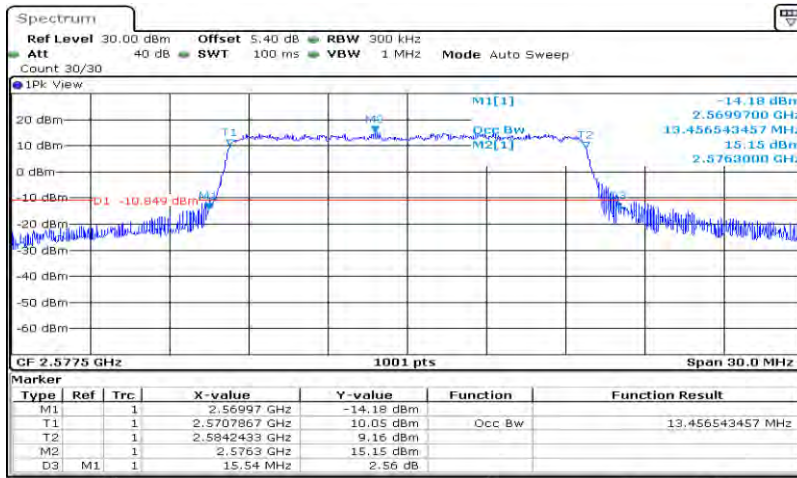


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Band38-15MHz-QPSK-37825-75RB#0-13.457

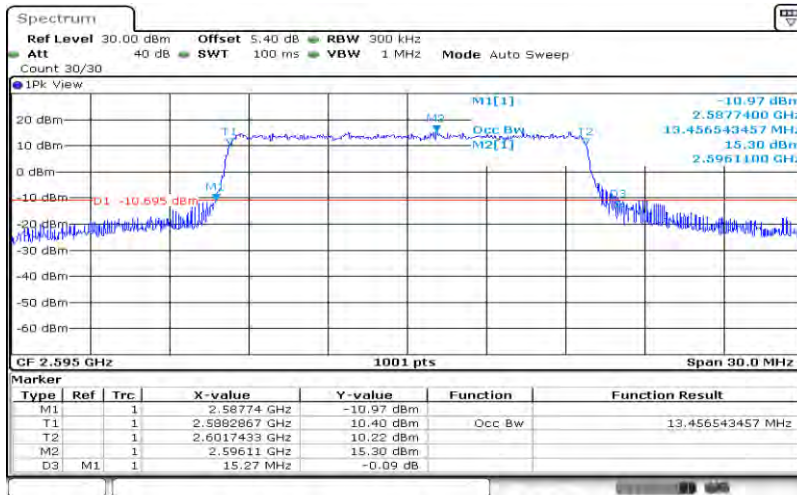


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Date: 14.NOV.2019 00:33:57

**Band38-15MHz-QPSK-38000-75RB#0-13.457**



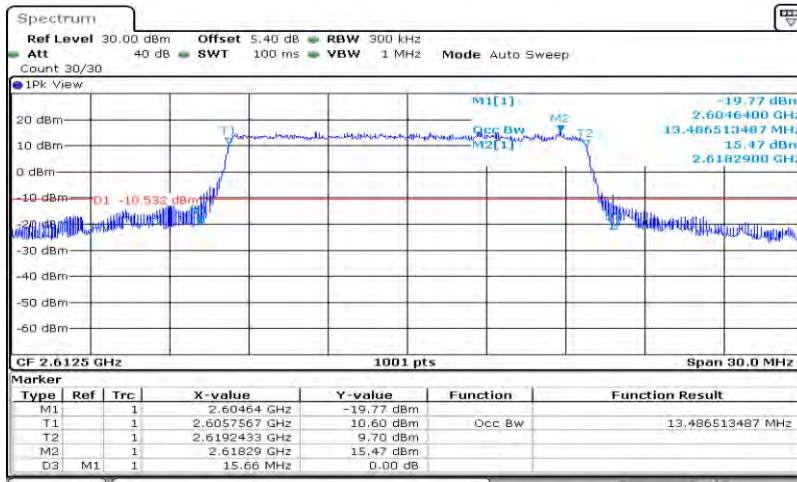
Date: 14.NOV.2019 00:34:19

**Band38-15MHz-QPSK-38175-75RB#0-13.487**



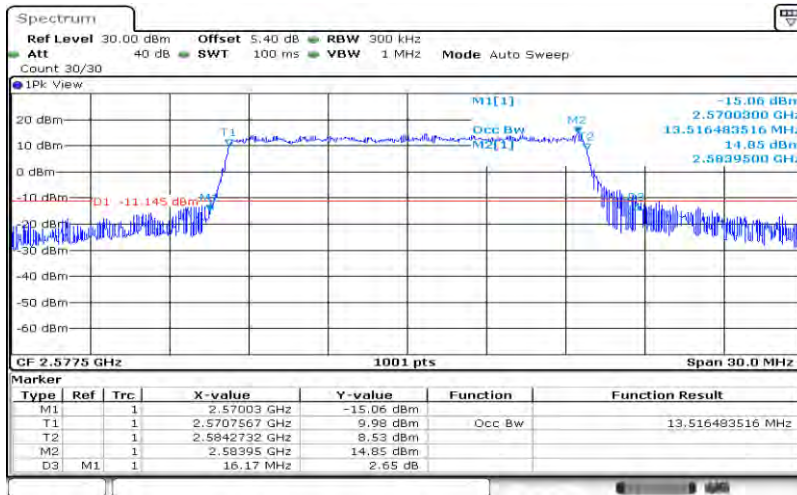
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Date: 14 NOV 2019 00:34:41

**Band38-15MHz-16QAM-37825-75RB#0-13.516**

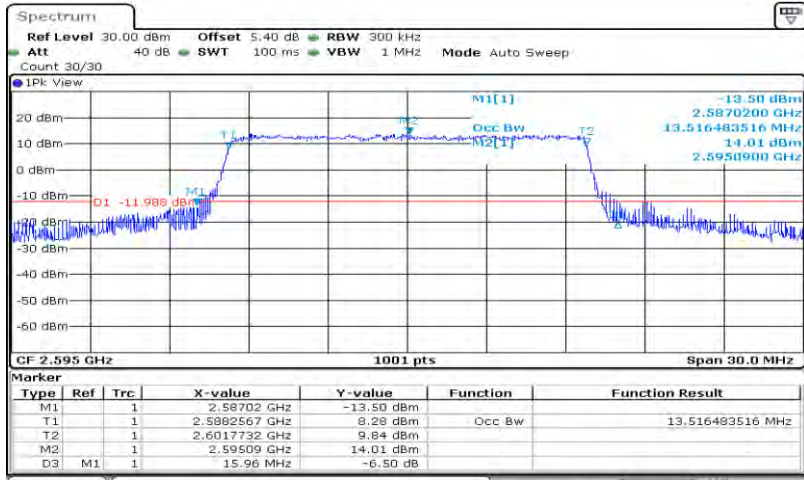


Date: 14 NOV 2019 00:34:07

**Band38-15MHz-16QAM-38000-75RB#0-13.516**

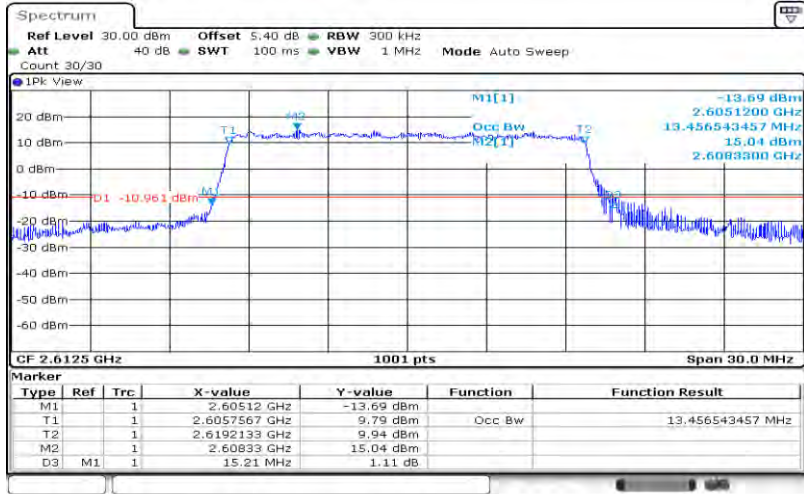


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Date: 14 NOV 2019 00:34:28

**Band38-15MHz-16QAM-38175-75RB#0-13.457**

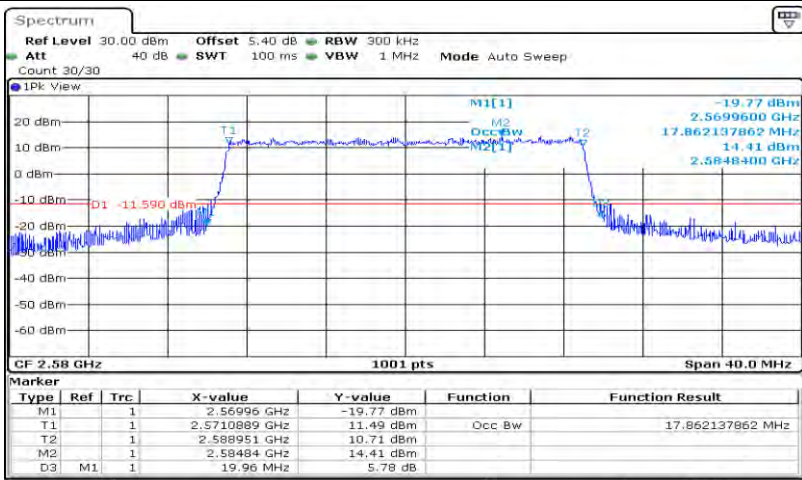


Date: 14 NOV 2019 00:34:50

**Band38-20MHz-QPSK-37850-100RB#0-17.862**

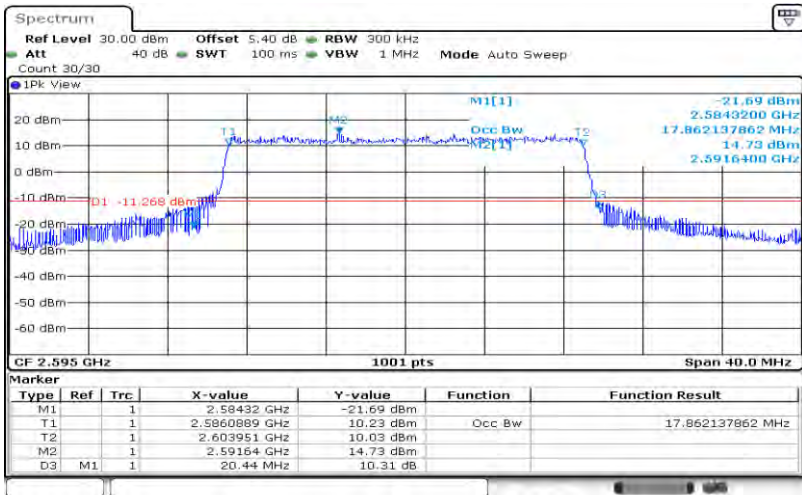


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Date: 14 NOV 2019 00:36:07

**Band38-20MHz-QPSK-38000-100RB#0-17.862**



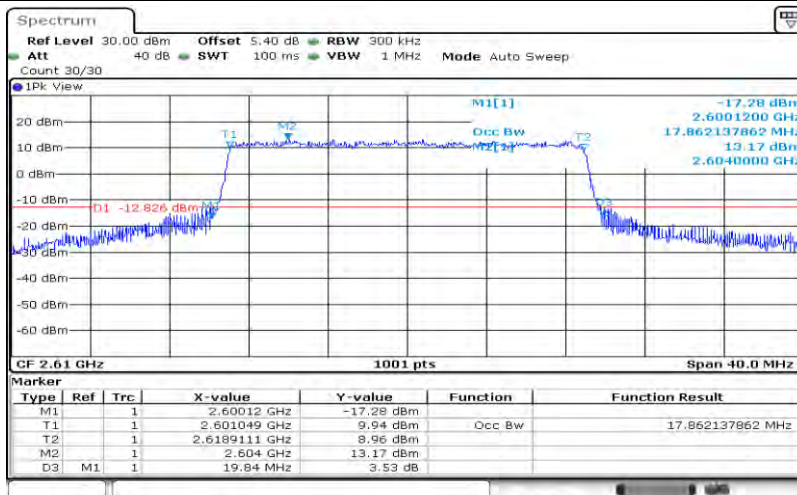
Date: 14 NOV 2019 00:36:28

**Band38-20MHz-QPSK-38150-100RB#0-17.862**



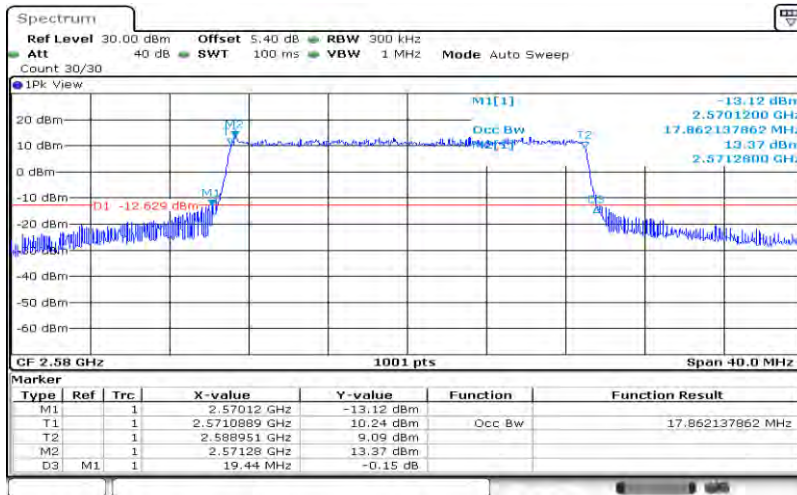
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Date: 14 NOV 2019 00:36:50

**Band38-20MHz-16QAM-37850-100RB#0-17.862**

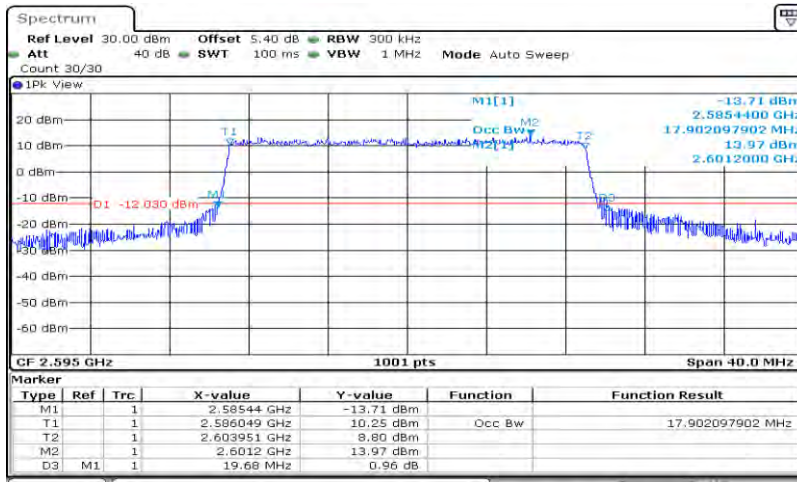


Date: 14 NOV 2019 00:36:17

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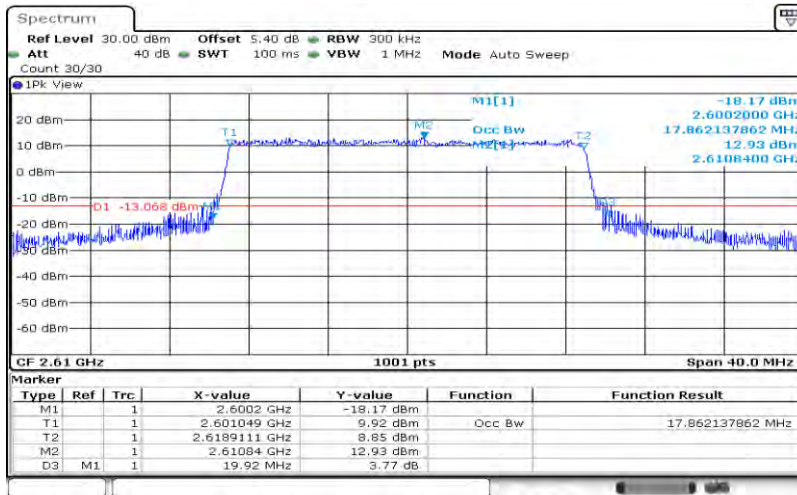


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Date: 14.NOV.2019 00:36:38

**Band38-20MHz-16QAM-38150-100RB#0-17.862**



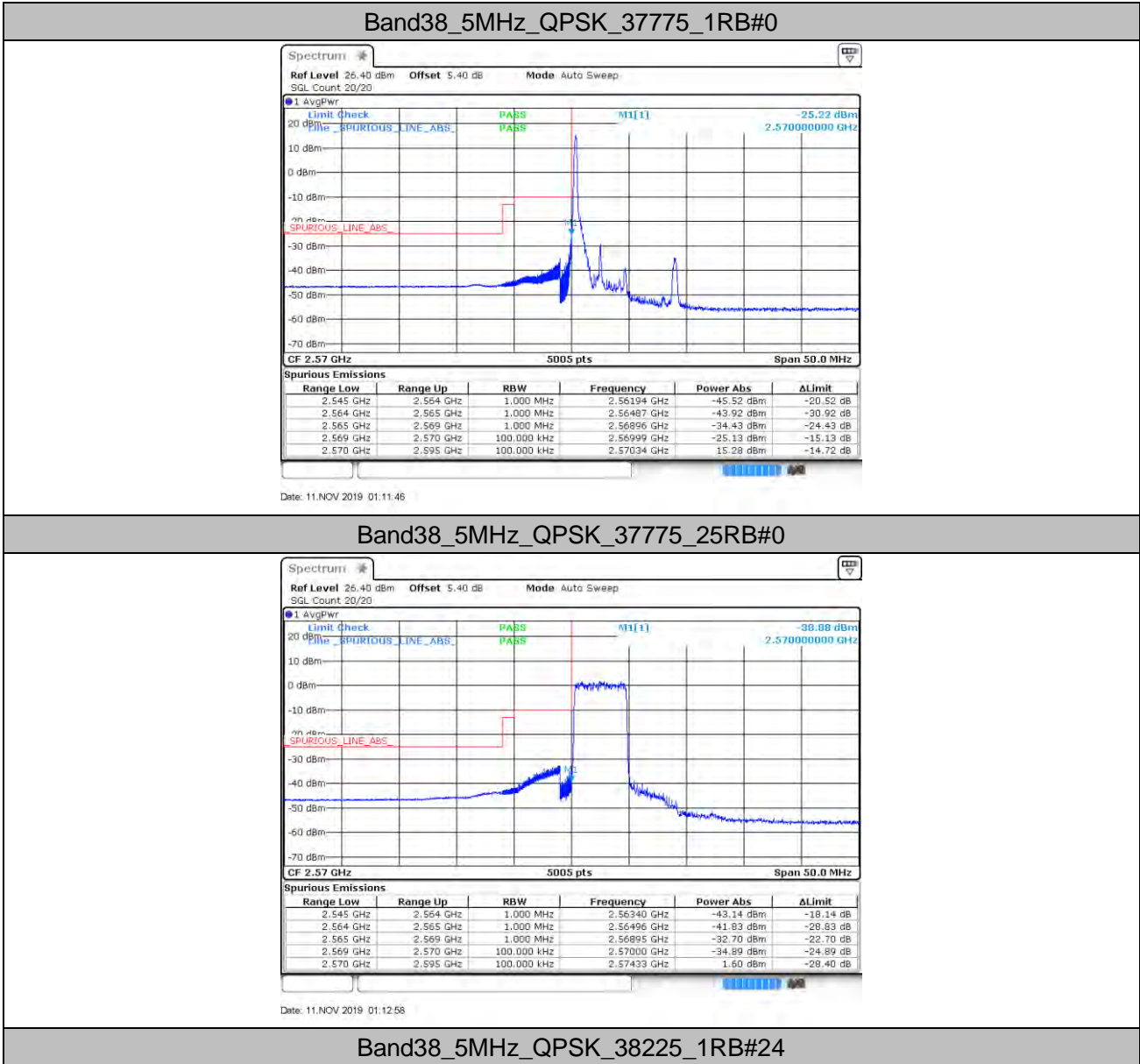
Date: 14.NOV.2019 00:37:00



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## 5. Band Edge Compliance

### 5.1. Test Plots

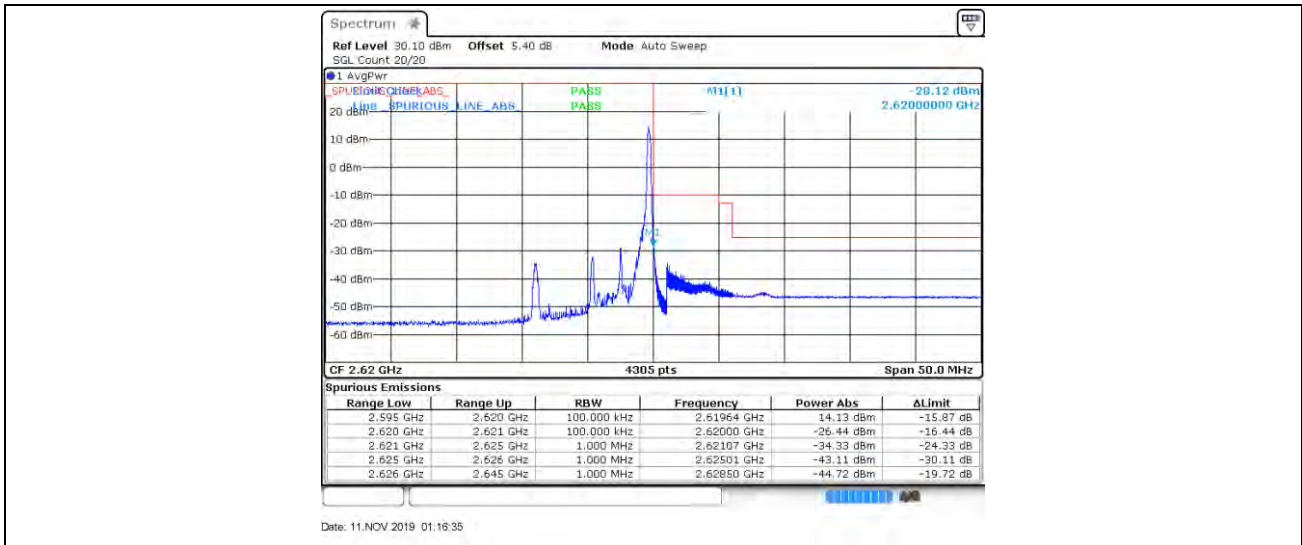


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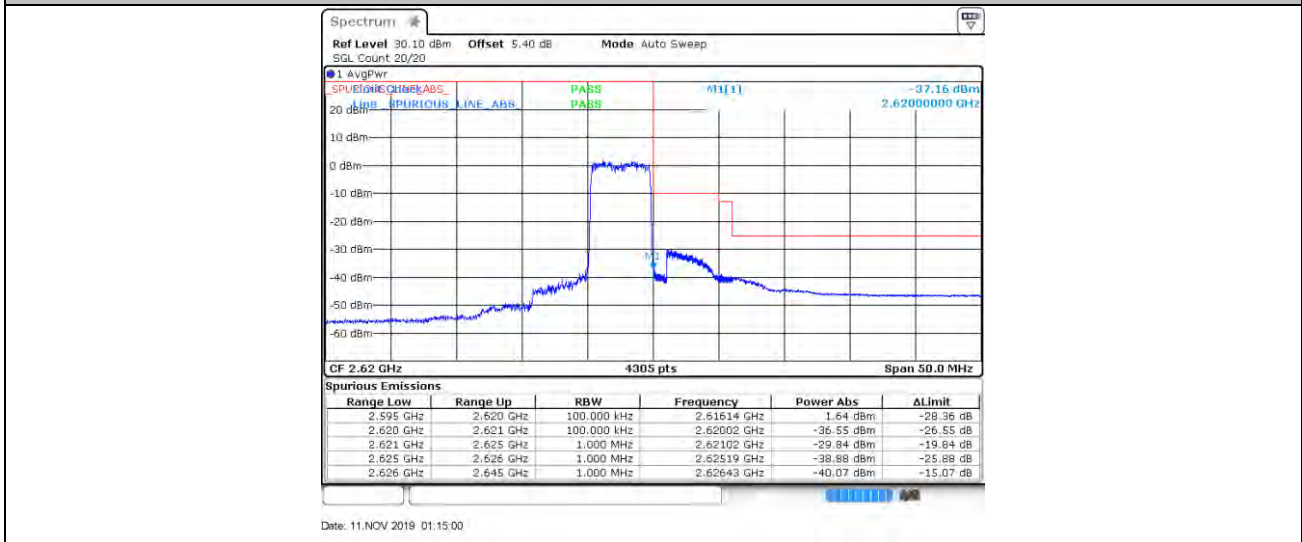
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**Band38\_5MHz\_QPSK\_38225\_25RB#0**



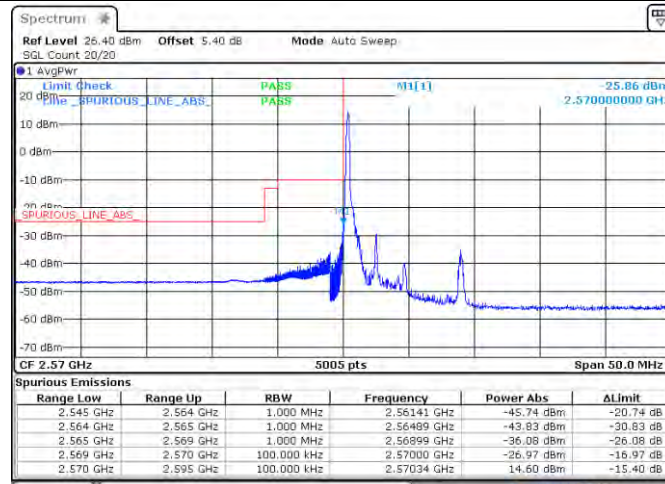
**Band38\_5MHz\_16QAM\_37775\_1RB#0**



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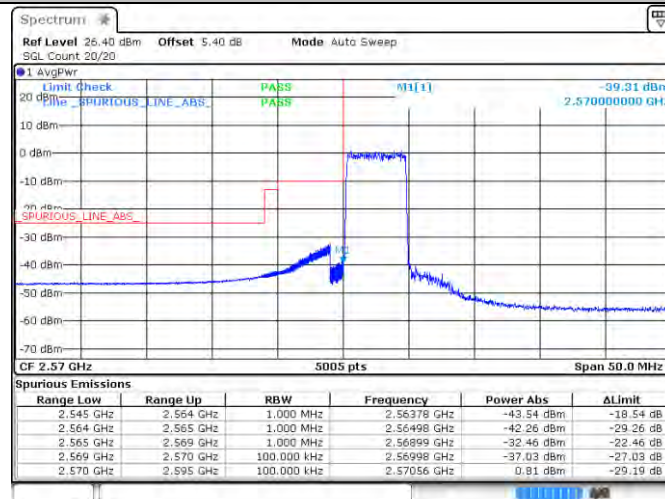
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Date: 11.NOV 2019 01:12:09

**Band38\_5MHz\_16QAM\_3775\_25RB#0**

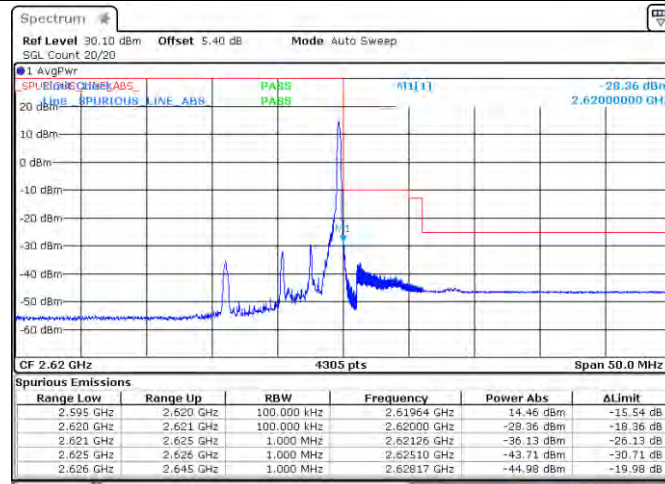


Date: 11.NOV 2019 01:12:34

**Band38\_5MHz\_16QAM\_38225\_1RB#24**

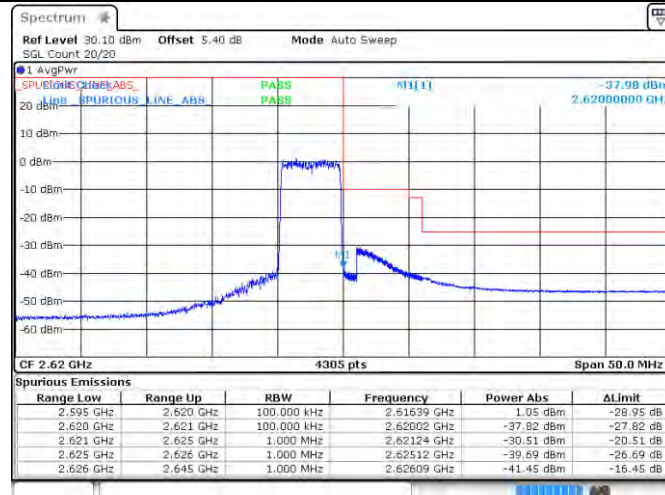


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Date: 11.NOV 2019 01:16:52

**Band38\_5MHz\_16QAM\_38225\_25RB#0**



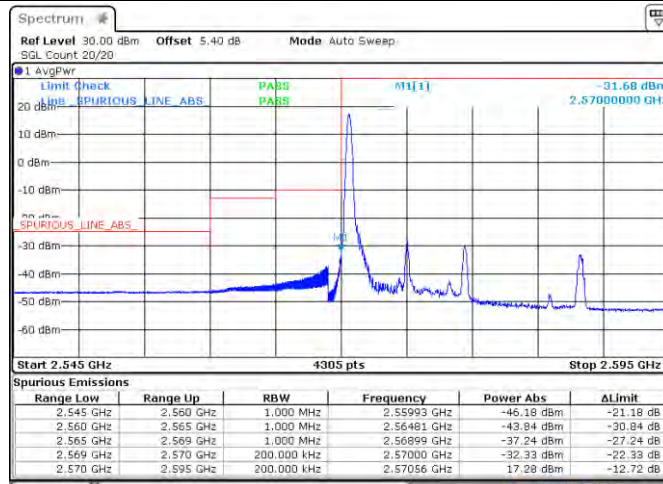
Date: 11.NOV 2019 01:15:55

**Band38\_10MHz\_QPSK\_37800\_1RB#0**



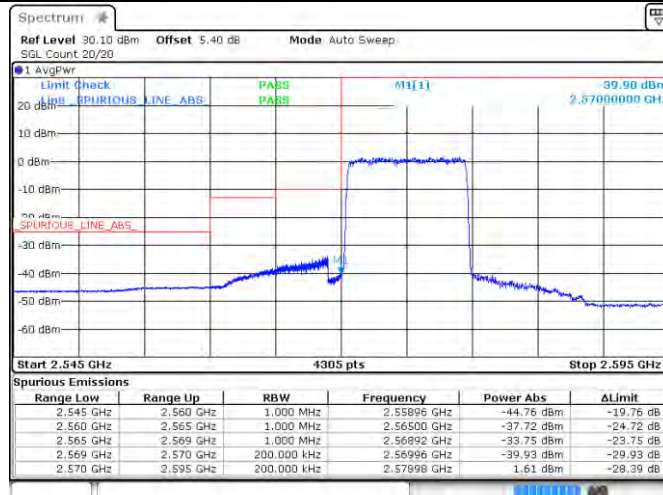
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Date: 11.NOV 2019 01:21:39

**Band38\_10MHz\_QPSK\_37800\_50RB#0**

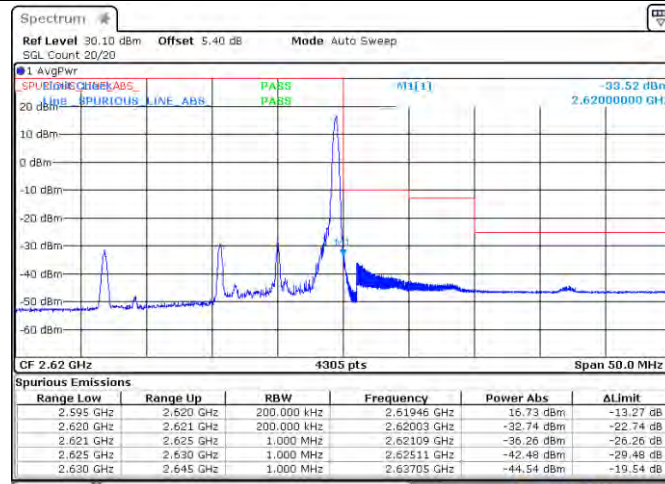


Date: 11.NOV 2019 01:22:52

**Band38\_10MHz\_QPSK\_38200\_1RB#49**

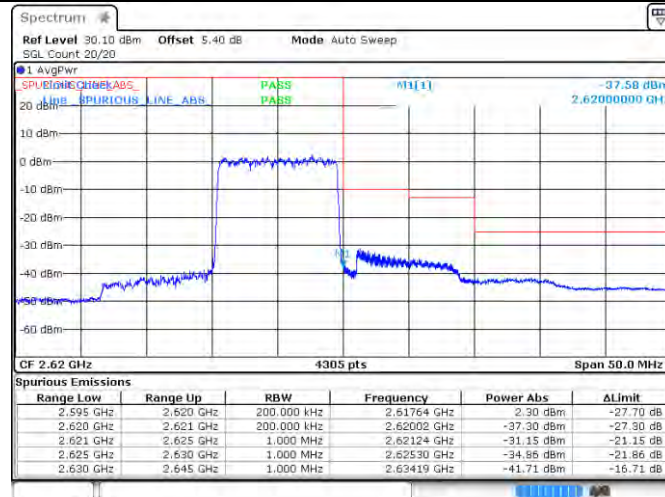


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Date: 11.NOV 2019 01:20:17

**Band38\_10MHz\_QPSK\_38200\_50RB#0**

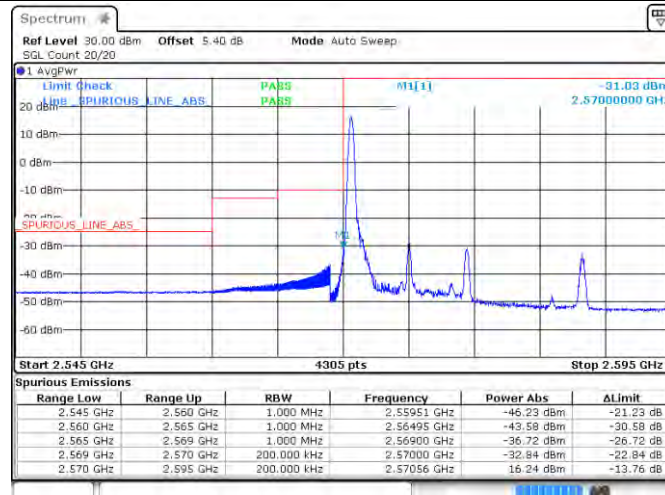


Date: 11.NOV 2019 01:19:18

**Band38\_10MHz\_16QAM\_37800\_1RB#0**

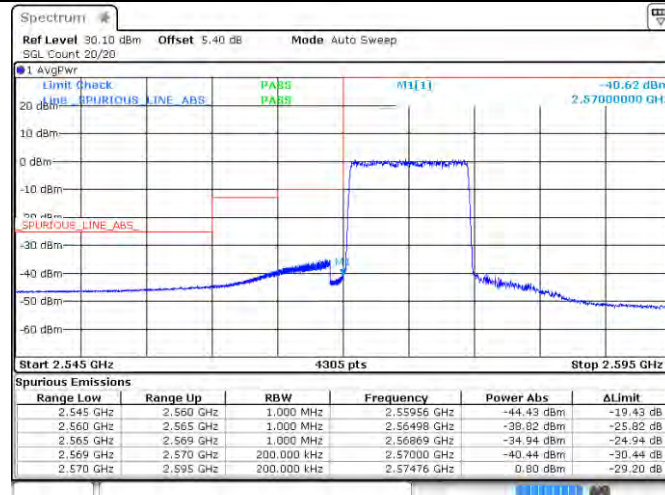


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Date: 11.NOV 2019 01:21:54

Band38\_10MHz\_16QAM\_37800\_50RB#0



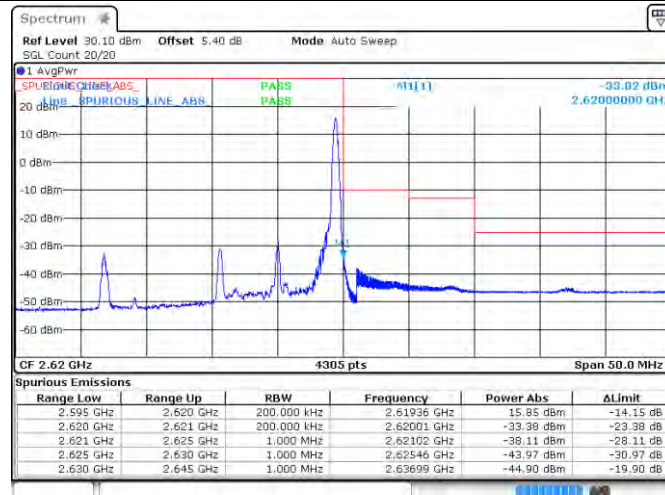
Date: 11.NOV 2019 01:22:29

Band38\_10MHz\_16QAM\_38200\_1RB#49



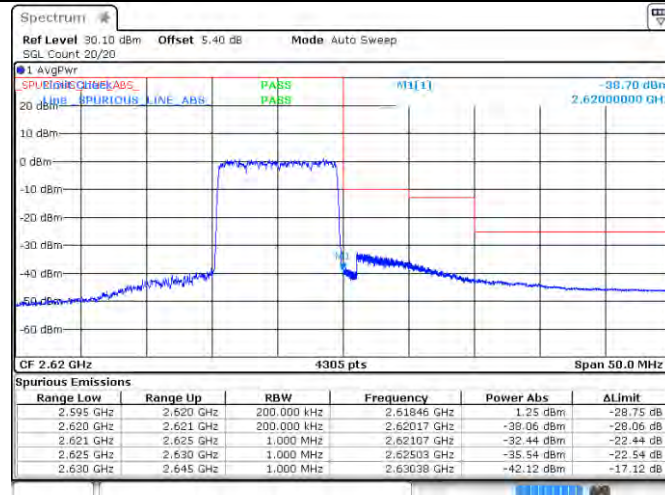
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Date: 11.NOV 2019 01:20:30

**Band38\_10MHz\_16QAM\_38200\_50RB#0**

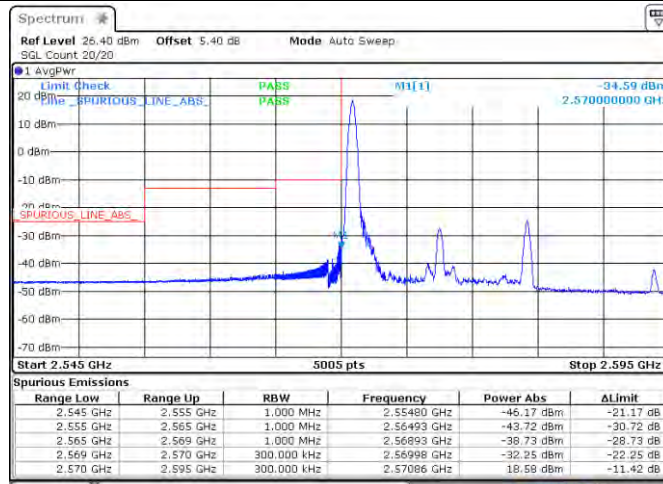


Date: 11.NOV 2019 01:18:15

**Band38\_15MHz\_QPSK\_37825\_1RB#0**

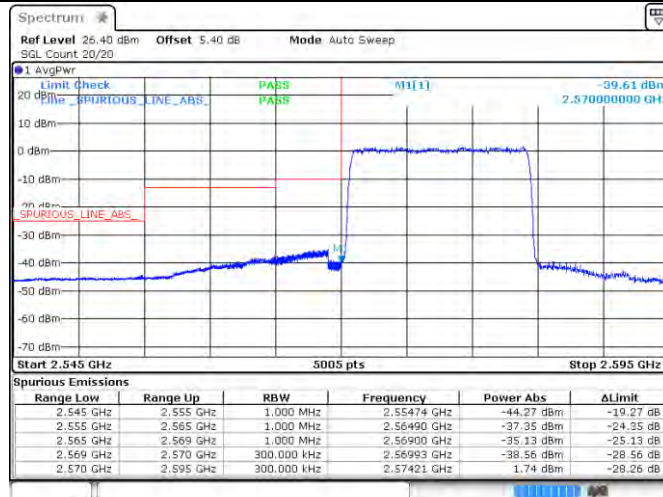


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Date: 11.NOV 2019 01:24:02

Band38\_15MHz\_QPSK\_37825\_75RB#0

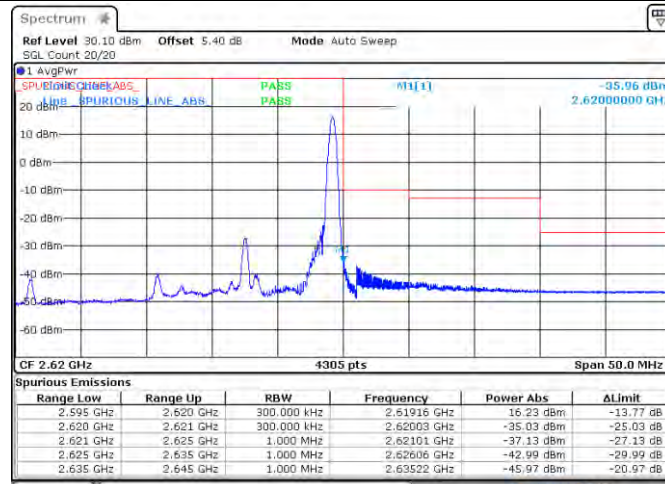


Date: 11.NOV 2019 01:24:48

Band38\_15MHz\_QPSK\_38175\_1RB#74



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Date: 11.NOV 2019 01:26:51

**Band38\_15MHz\_QPSK\_38175\_75RB#0**



Date: 11.NOV 2019 01:25:52

**Band38\_15MHz\_16QAM\_37825\_1RB#0**

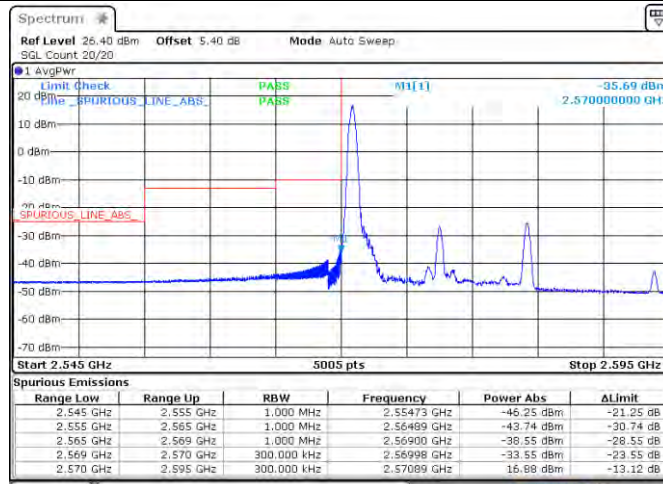


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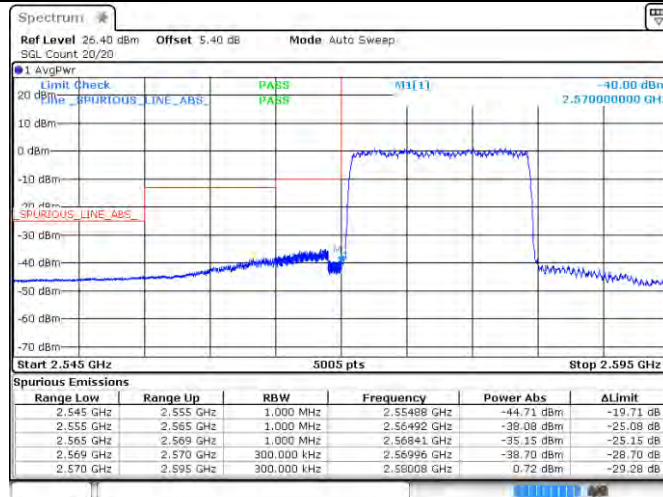
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com





Date: 11.NOV 2019 01:24:16

**Band38\_15MHz\_16QAM\_37825\_75RB#0**



Date: 11.NOV 2019 01:24:32

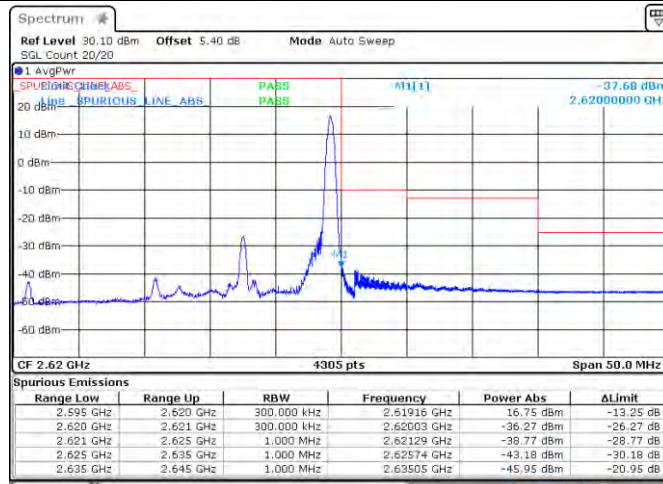
**Band38\_15MHz\_16QAM\_38175\_1RB#74**



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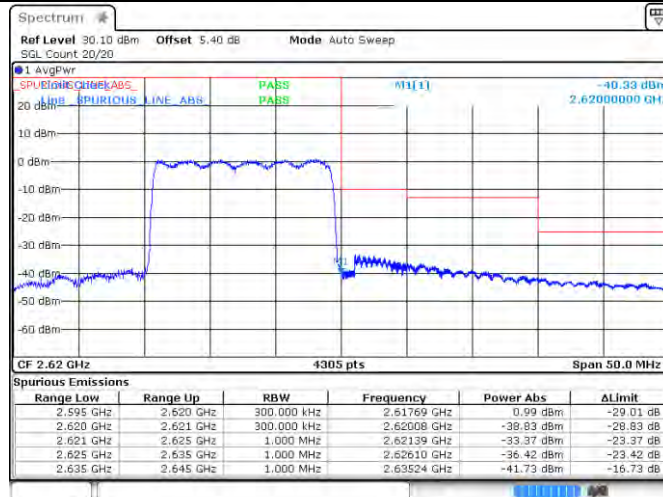
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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  
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Date: 11.NOV 2019 01:26:37

Band38\_15MHz\_16QAM\_38175\_75RB#0

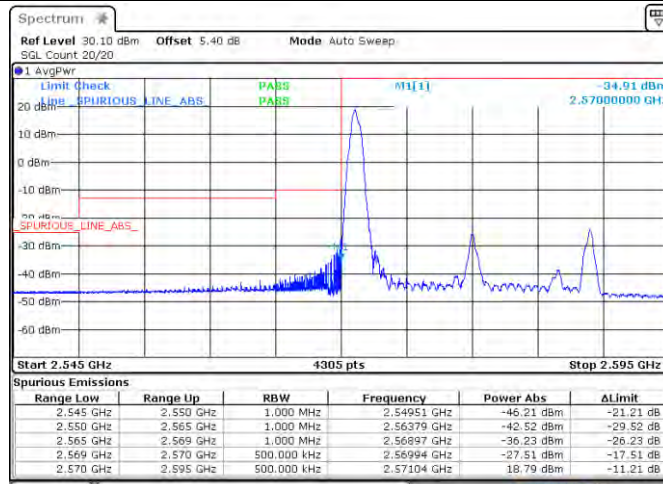


Date: 11.NOV 2019 01:26:09

Band38\_20MHz\_QPSK\_37850\_1RB#0

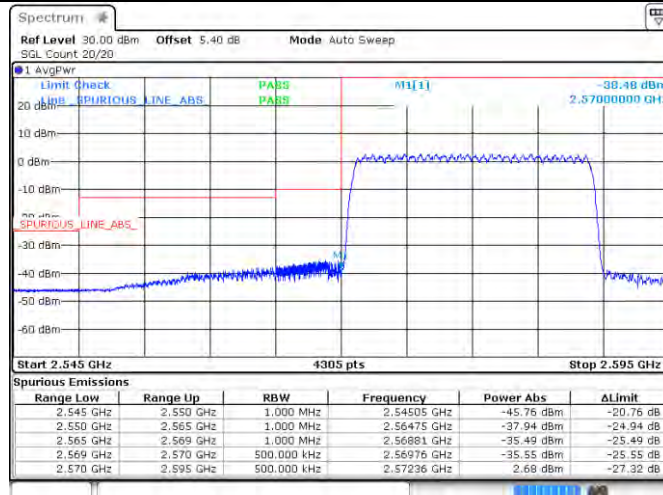


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Date: 11.NOV 2019 01:32:18

**Band38\_20MHz\_QPSK\_37850\_100RB#0**



Date: 11.NOV 2019 01:31:00

**Band38\_20MHz\_QPSK\_38150\_1RB#99**

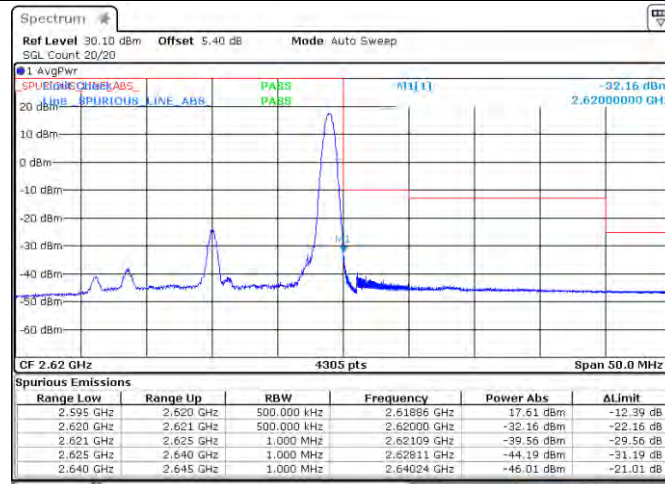


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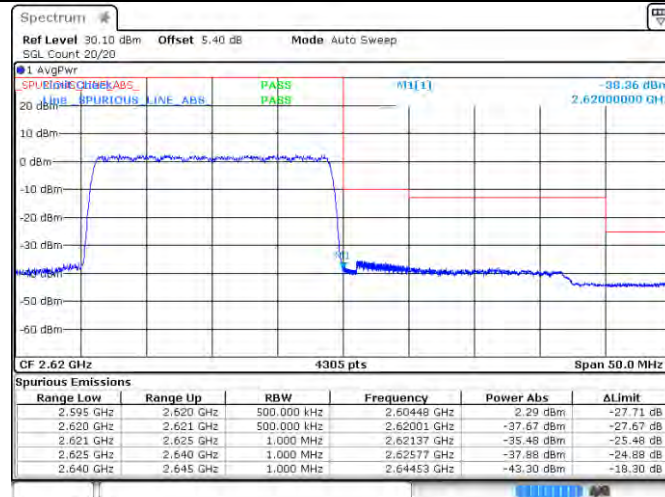
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Date: 11.NOV 2019 01:29:17

Band38\_20MHz\_QPSK\_38150\_100RB#0

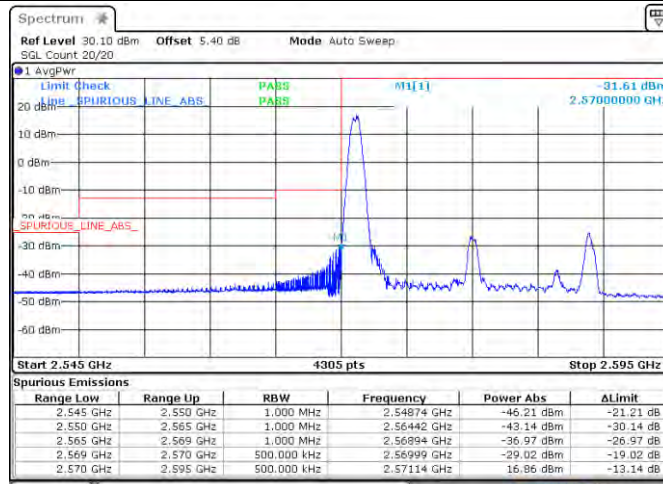


Date: 11.NOV 2019 01:30:17

Band38\_20MHz\_16QAM\_37850\_1RB#0

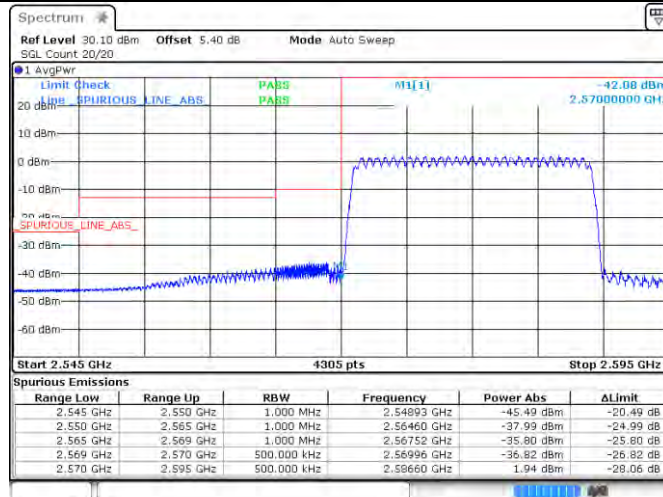


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Date: 11.NOV 2019 01:32:00

**Band38\_20MHz\_16QAM\_37850\_100RB#0**

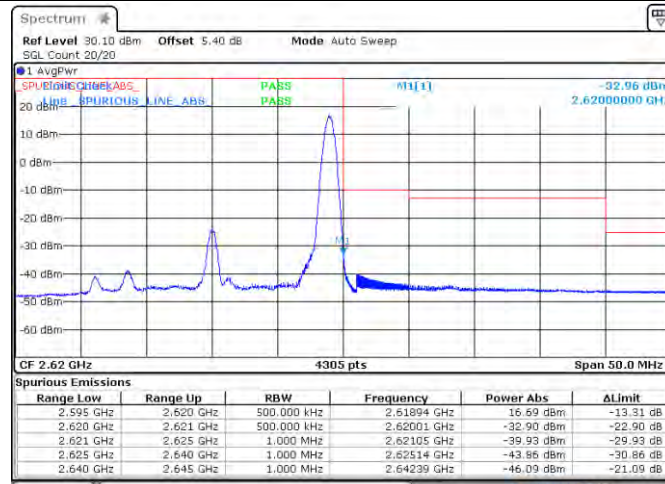


Date: 11.NOV 2019 01:31:38

**Band38\_20MHz\_16QAM\_38150\_1RB#99**

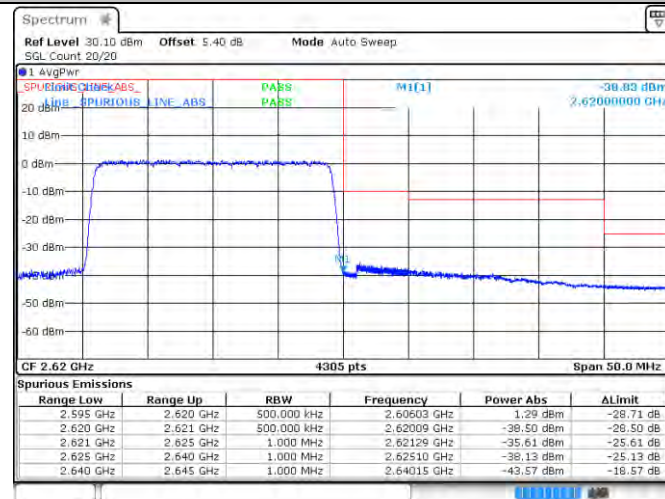


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Date: 11.NOV.2019 01:29:34

**Band38\_20MHz\_16QAM\_38150\_100RB#0**



Date: 11.NOV.2019 01:29:56



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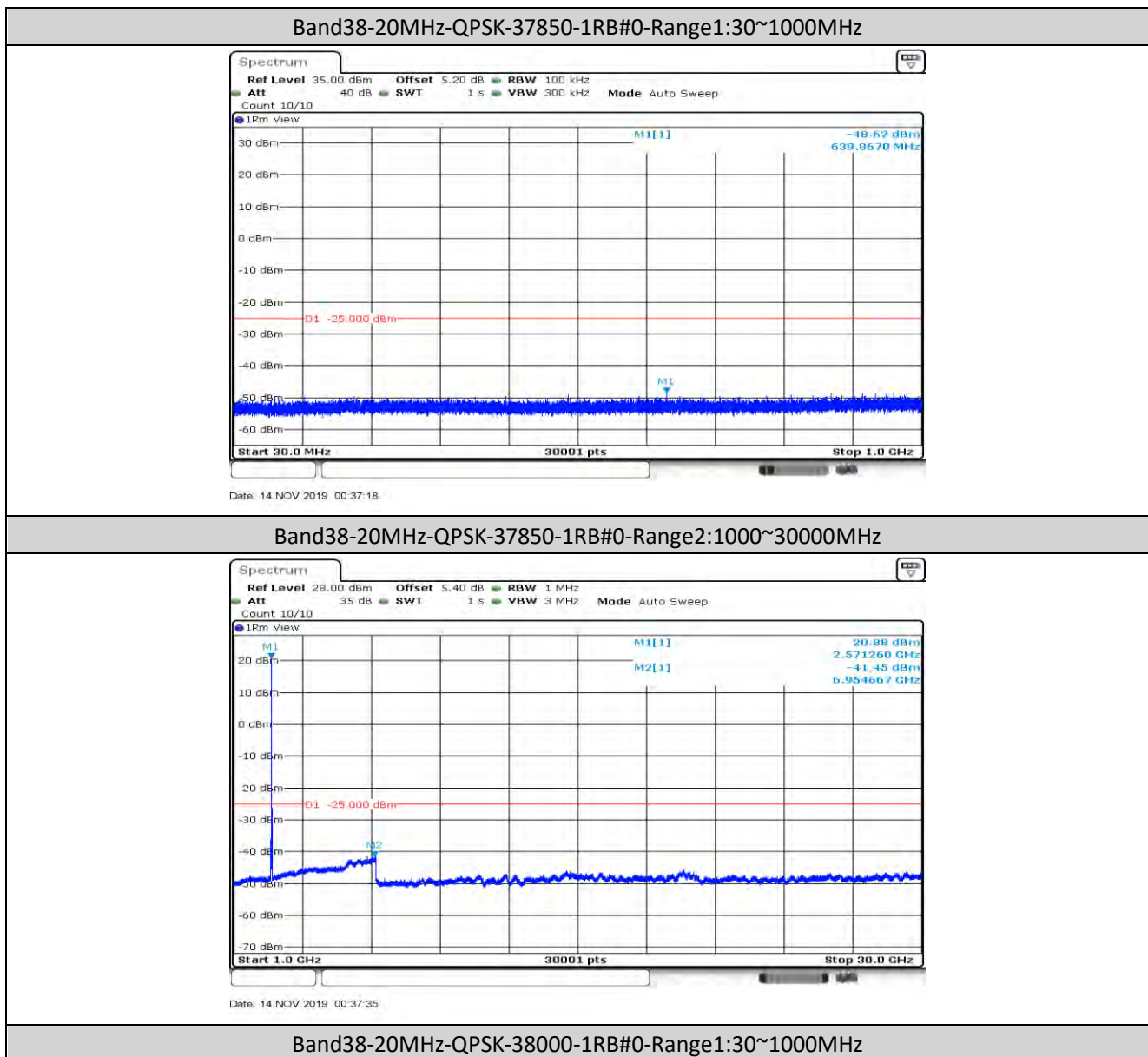


## 6. Spurious Emission at Antenna Terminal

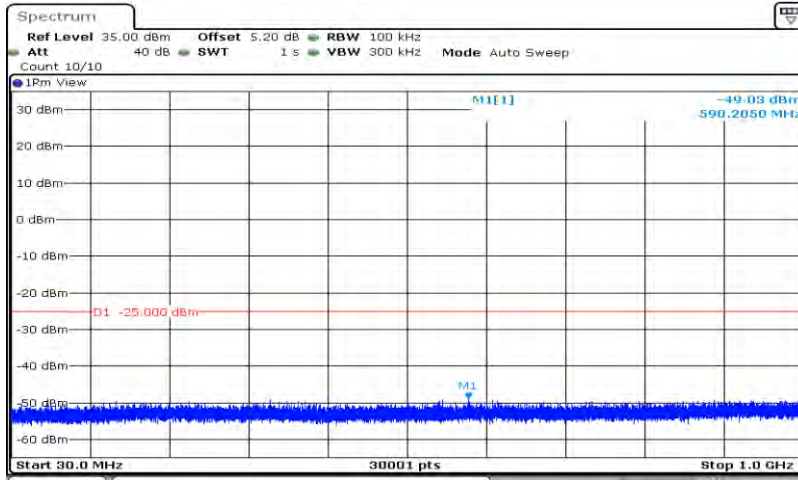
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

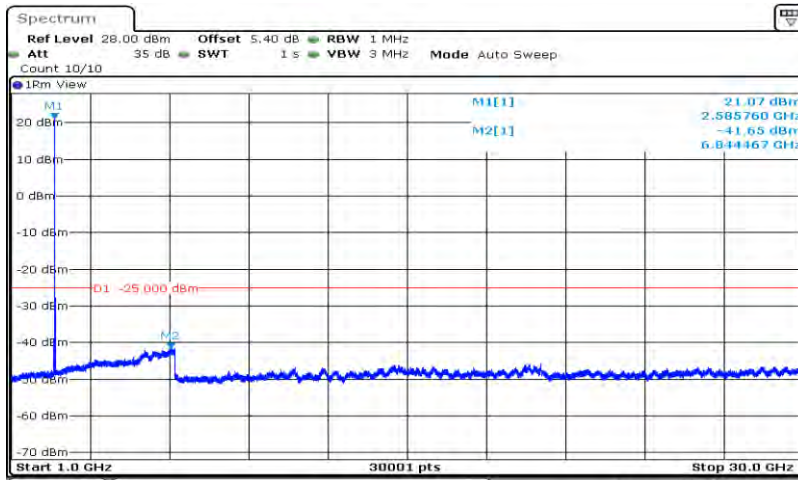


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Date: 14.NOV.2019 00:38:25

**Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz**

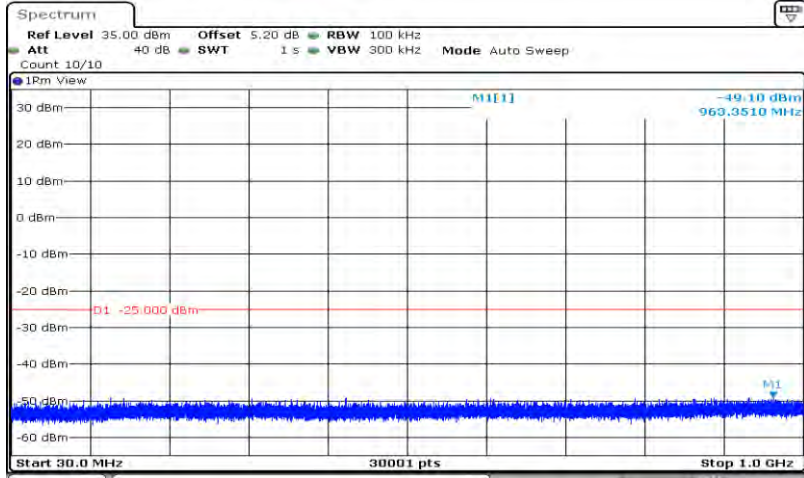


Date: 14.NOV.2019 00:38:41

**Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz**

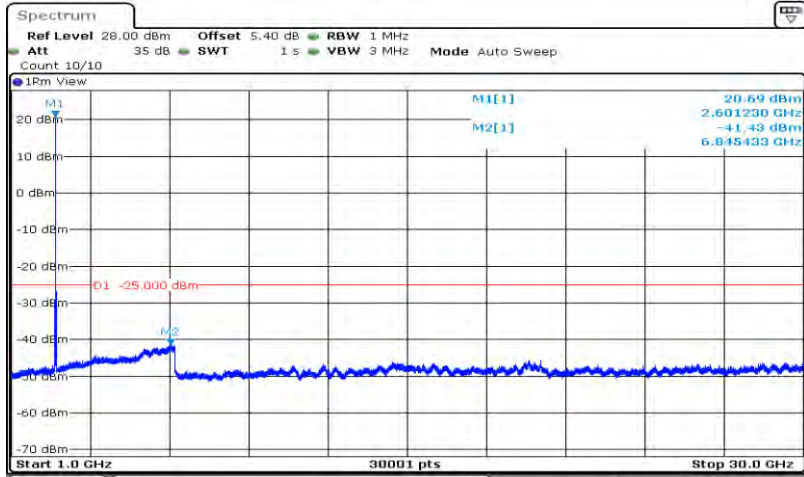


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Date: 14 NOV 2019 00:39:31

**Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz**



Date: 14 NOV 2019 00:39:47

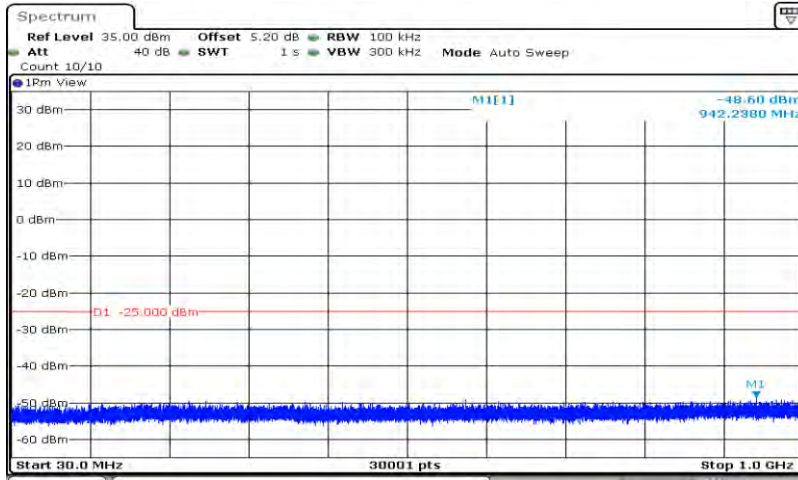
**Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz**



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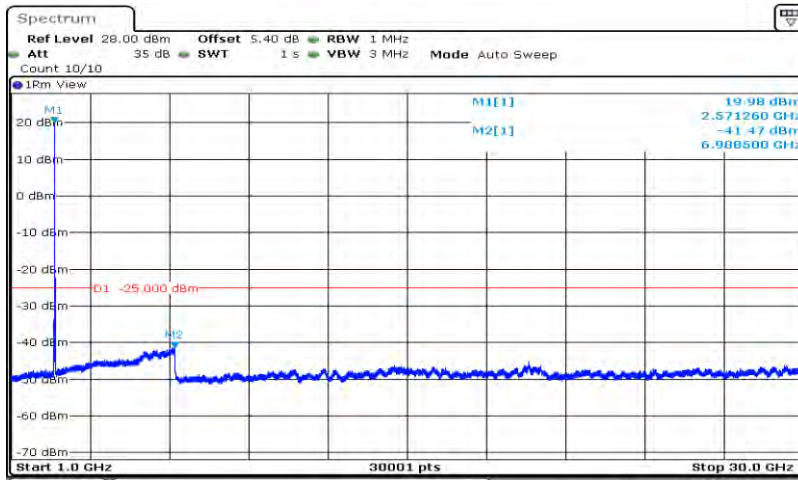
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Date: 14 NOV 2019 00:37:51

**Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz**

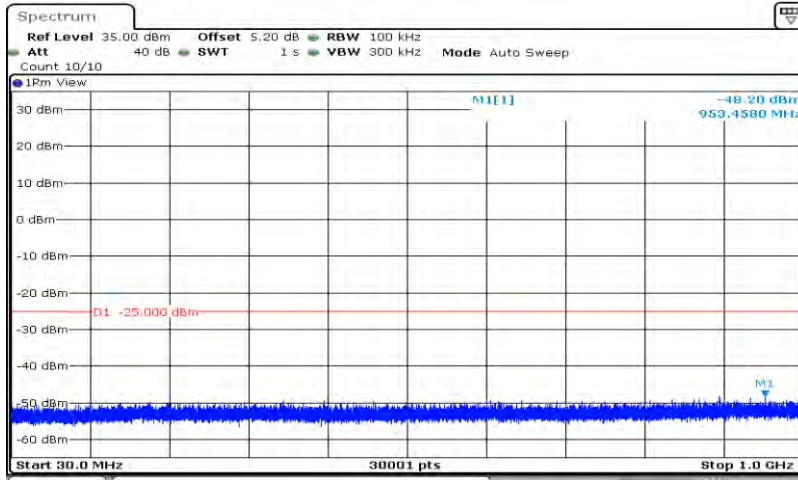


Date: 14 NOV 2019 00:38:07

**Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz**

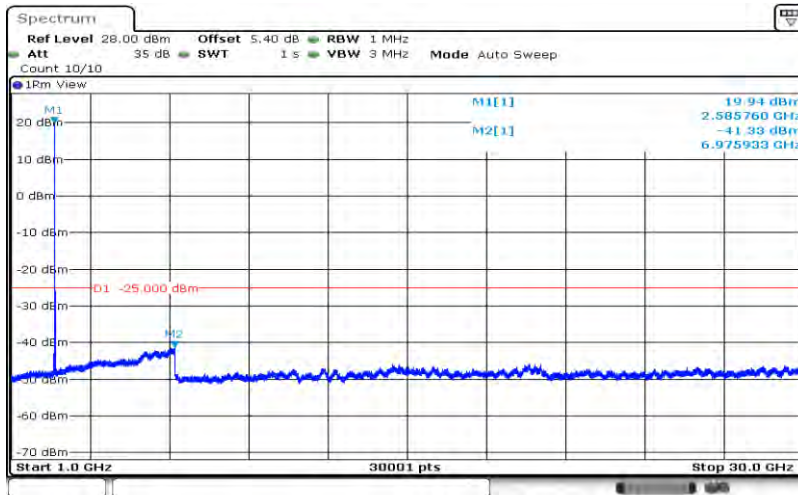


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Date: 14 NOV 2019 00:38:57

**Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz**

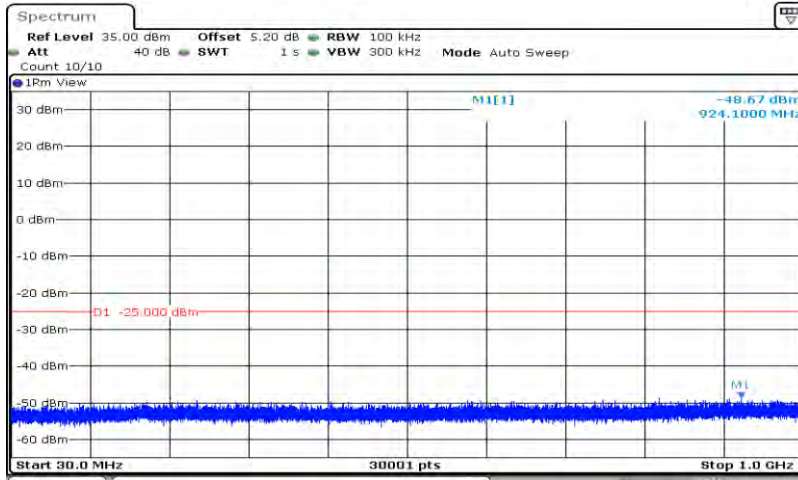


Date: 14 NOV 2019 00:39:13

**Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz**

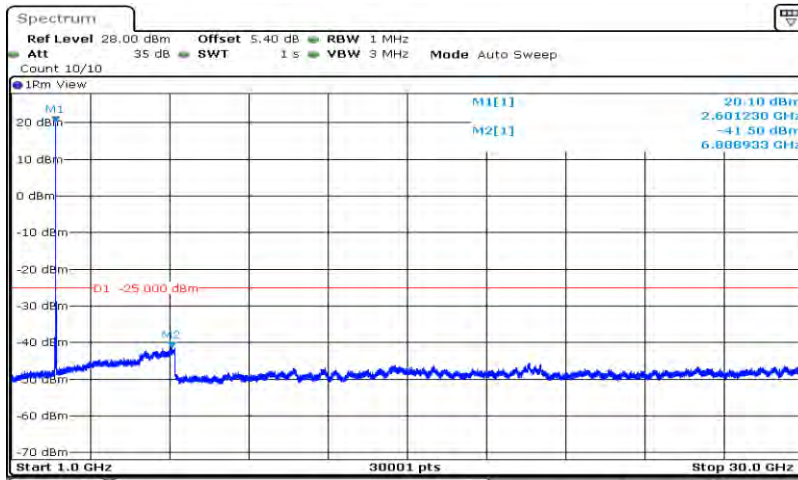


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Date: 14 NOV 2019 00:40:03

**Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz**



Date: 14 NOV 2019 00:40:19



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
		-13.00		Vertical
		-13.00		Vertical
		-13.00		Vertical
		-13.00		Vertical
		-13.00		Vertical
		-13.00		Vertical
42.8046	-64.16	-25.00	39.16	Horizontal
241.5191	-68.42	-25.00	43.42	Horizontal
875.3488	-60.10	-25.00	35.10	Horizontal
5142.0714	-53.47	-25.00	28.47	Horizontal
7713.1571	-44.23	-25.00	19.23	Horizontal
16392.4464	-37.33	-25.00	12.33	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
44.3082	-64.88	-25.00	39.88	Vertical
231.0426	-68.85	-25.00	43.85	Vertical
786.2498	-62.24	-25.00	37.24	Vertical
5172.0724	-52.89	-25.00	27.89	Vertical
7758.6586	-41.96	-25.00	16.96	Vertical
16389.9463	-37.18	-25.00	12.18	Vertical
113.1332	-64.80	-25.00	39.80	Horizontal
683.3762	-63.00	-25.00	38.00	Horizontal
5142.0714	-49.25	-25.00	24.25	Horizontal
7713.1571	-33.38	-25.00	8.38	Horizontal
10283.7428	-44.04	-25.00	19.04	Horizontal
17971.4991	-33.44	-25.00	8.44	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
44.5507	-64.61	-25.00	39.61	Vertical
234.9227	-68.20	-25.00	43.20	Vertical
830.5810	-62.10	-25.00	37.10	Vertical
5202.5734	-53.29	-25.00	28.29	Vertical
7803.6601	-40.86	-25.00	15.86	Vertical
16398.9466	-36.95	-25.00	11.95	Vertical
110.1745	-65.90	-25.00	40.90	Horizontal
291.3311	-69.60	-25.00	44.60	Horizontal
846.0533	-61.44	-25.00	36.44	Horizontal
5172.0724	-50.02	-25.00	25.02	Horizontal
7758.1586	-31.01	-25.00	6.01	Horizontal
17997.4999	-33.58	-25.00	8.58	Horizontal

**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 Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-18.90	-0.007326	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-22.13	-0.008578	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-17.22	-0.006674	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-20.30	-0.007823	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-26.26	-0.010119	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-22.50	-0.008671	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-13.93	-0.005337	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-20.59	-0.007889	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-13.89	-0.005322	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-17.38	-0.006736	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-20.61	-0.007988	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-16.82	-0.006519	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-21.97	-0.008466	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-49.07	-0.018909	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-22.53	-0.008682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-13.50	-0.005172	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-14.88	-0.005701	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-15.34	-0.005877	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-19.08	-0.007395	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-15.48	-0.006000	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-18.32	-0.007101	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-18.54	-0.007186	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-15.85	-0.006143	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-16.75	-0.006492	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-19.83	-0.007686	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-25.66	-0.009946	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-20.71	-0.007981	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-19.47	-0.007503	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-21.14	-0.008146	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-20.74	-0.007992	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-23.57	-0.009083	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-21.56	-0.008308	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-21.46	-0.008270	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-24.02	-0.009256	±2.5	PASS



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Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-16.89	-0.006471	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-14.91	-0.005713	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-18.61	-0.007130	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-14.83	-0.005682	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-14.68	-0.005625	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-19.33	-0.007406	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-14.45	-0.005536	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-13.95	-0.005345	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-23.53	-0.009120	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-18.44	-0.007147	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-17.91	-0.006942	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-16.18	-0.006271	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-19.30	-0.007481	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-20.73	-0.008035	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-15.31	-0.005934	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-18.65	-0.007229	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-21.92	-0.008447	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-22.50	-0.008671	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-16.89	-0.006509	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-20.93	-0.008066	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-19.61	-0.007557	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-21.40	-0.008247	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-25.81	-0.009946	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-19.44	-0.007491	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-15.64	-0.005992	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-13.28	-0.005088	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-17.64	-0.006759	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-14.93	-0.005720	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-14.58	-0.005586	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-14.58	-0.005586	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-14.52	-0.005563	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-16.25	-0.006226	±2.5	PASS



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