



# Appendix B

## E-UTRA Band 7



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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
Band7	5MHz	QPSK	20775	1RB#0	22.42	22.92	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.70	23.20	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.39	22.89	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.55	22.05	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.61	22.11	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.54	22.04	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.58	22.08	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.46	22.96	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.44	22.94	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.73	23.23	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.60	22.10	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.64	22.14	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.55	22.05	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.59	22.09	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.46	22.96	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.46	22.96	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.77	23.27	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.61	22.11	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.64	22.14	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.58	22.08	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.60	22.10	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.60	22.10	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.92	22.42	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.55	22.05	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.58	21.08	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.54	21.04	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.52	21.02	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.54	21.04	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.54	23.04	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.85	22.35	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.58	22.08	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.61	21.11	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.60	21.10	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.63	21.13	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.59	21.09	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.91	22.41	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.62	22.12	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.70	22.20	33.00	PASS



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Band7	5MHz	16QAM	21425	12RB#0	20.63	21.13	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.65	21.15	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.58	21.08	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.58	23.08	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.64	23.14	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.48	22.98	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.54	23.04	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.67	22.17	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.65	22.15	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.62	22.12	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.67	22.17	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.58	23.08	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.51	23.01	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.67	23.17	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.65	22.15	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.73	22.23	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.67	22.17	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.70	22.20	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.67	23.17	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.57	23.07	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.55	23.05	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.71	22.21	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.60	22.10	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.66	22.16	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.71	22.21	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.66	22.16	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.74	22.24	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.88	22.38	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.61	21.11	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.62	21.12	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.67	21.17	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.65	21.15	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.76	22.26	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.79	22.29	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.93	22.43	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.62	21.12	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	22.62	23.12	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.64	21.14	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.66	21.16	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.87	22.37	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.71	22.21	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.69	22.19	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.68	21.18	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.64	21.14	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.57	21.07	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.66	21.16	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.51	23.01	33.00	PASS



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Band7	15MHz	QPSK	20825	1RB#38	22.58	23.08	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.46	22.96	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.66	22.16	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.65	22.15	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.64	22.14	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.64	22.14	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.55	23.05	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.46	22.96	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.60	23.10	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.69	22.19	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.67	22.17	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.61	22.11	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.65	22.15	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.54	23.04	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.55	23.05	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.57	23.07	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.68	22.18	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.66	22.16	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.58	22.08	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.62	22.12	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.64	22.14	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.81	22.31	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.64	22.14	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.61	21.11	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.63	21.13	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.59	21.09	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.62	21.12	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.73	22.23	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.78	22.28	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.68	22.18	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.57	21.07	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.66	21.16	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.62	21.12	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.64	21.14	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.76	22.26	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.76	22.26	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.61	23.11	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.62	21.12	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.62	21.12	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.57	21.07	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.60	21.10	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.37	22.87	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.70	23.20	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.48	22.98	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.65	22.15	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.68	22.18	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.67	22.17	33.00	PASS



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Band7	20MHz	QPSK	20850	100RB#0	21.65	22.15	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.49	22.99	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.37	22.87	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.69	23.19	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.57	22.07	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.74	22.24	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.66	22.16	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.63	22.13	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.68	23.18	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.52	23.02	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.42	22.92	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.66	22.16	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.55	22.05	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.67	22.17	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.58	22.08	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.50	22.00	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.64	22.14	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.87	22.37	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.61	21.11	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.63	21.13	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.63	21.13	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.65	21.15	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.52	22.02	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.75	22.25	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.82	22.32	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.55	21.05	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.72	21.22	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.65	21.15	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.62	21.12	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.87	22.37	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.76	22.26	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.61	22.11	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.63	21.13	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.65	21.15	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.51	21.01	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.60	21.10	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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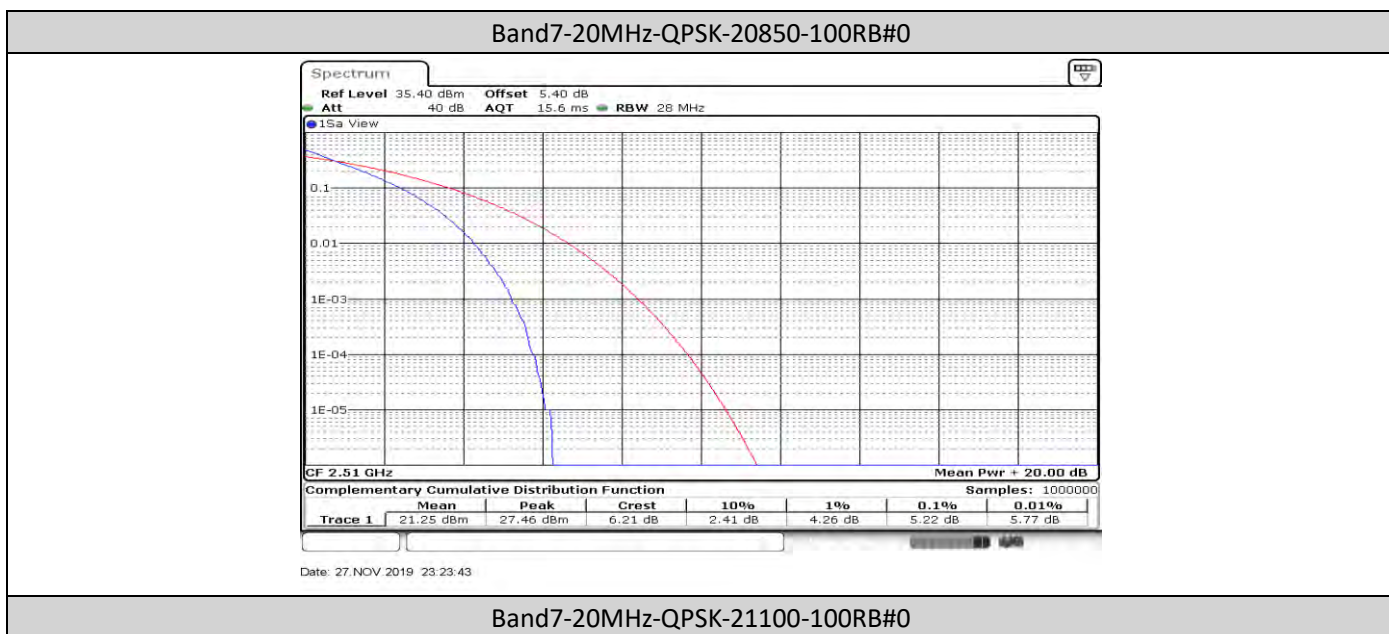


## 2. Peak-to-Average Ratio (CCDF)

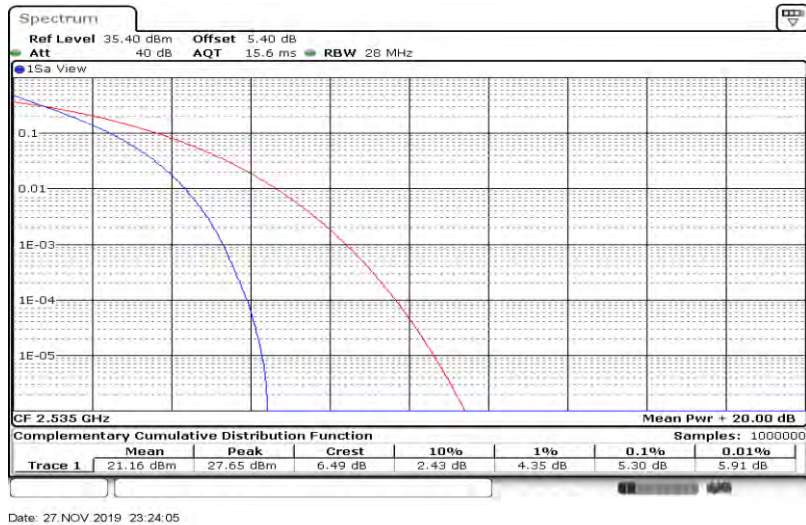
### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.22	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.30	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.22	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.12	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.03	13	PASS

### 2.2. Test Plots

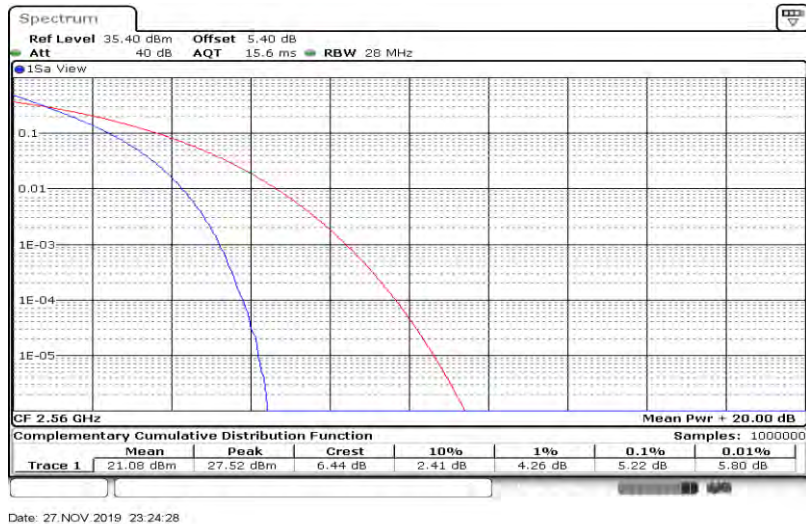






Date: 27.NOV.2019 23:24:05

**Band7-20MHz-QPSK-21350-100RB#0**



Date: 27.NOV.2019 23:24:28

**Band7-20MHz-16QAM-20850-100RB#0**

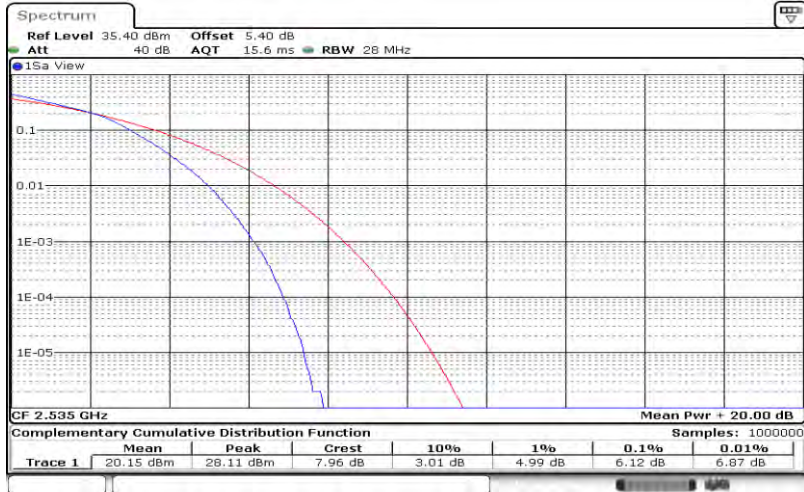


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Date: 27.NOV.2019 23:23:54

**Band7-20MHz-16QAM-21100-100RB#0**



Date: 27.NOV.2019 23:24:16

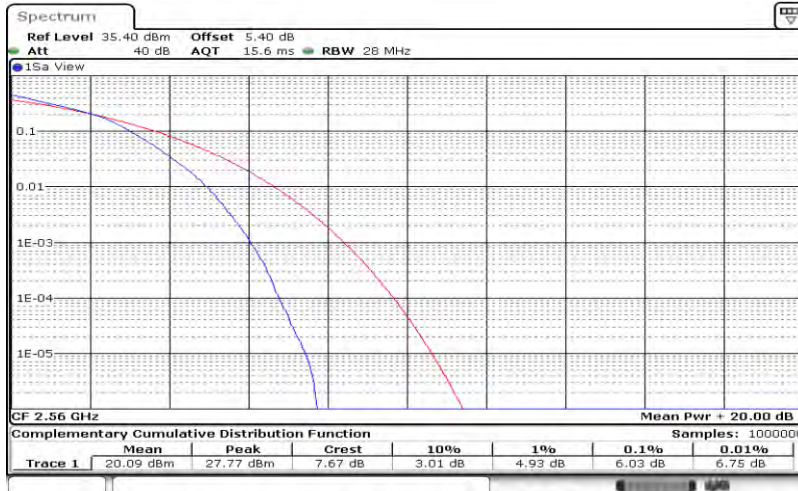
**Band7-20MHz-16QAM-21350-100RB#0**



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Date: 27.NOV.2019 23:24:39



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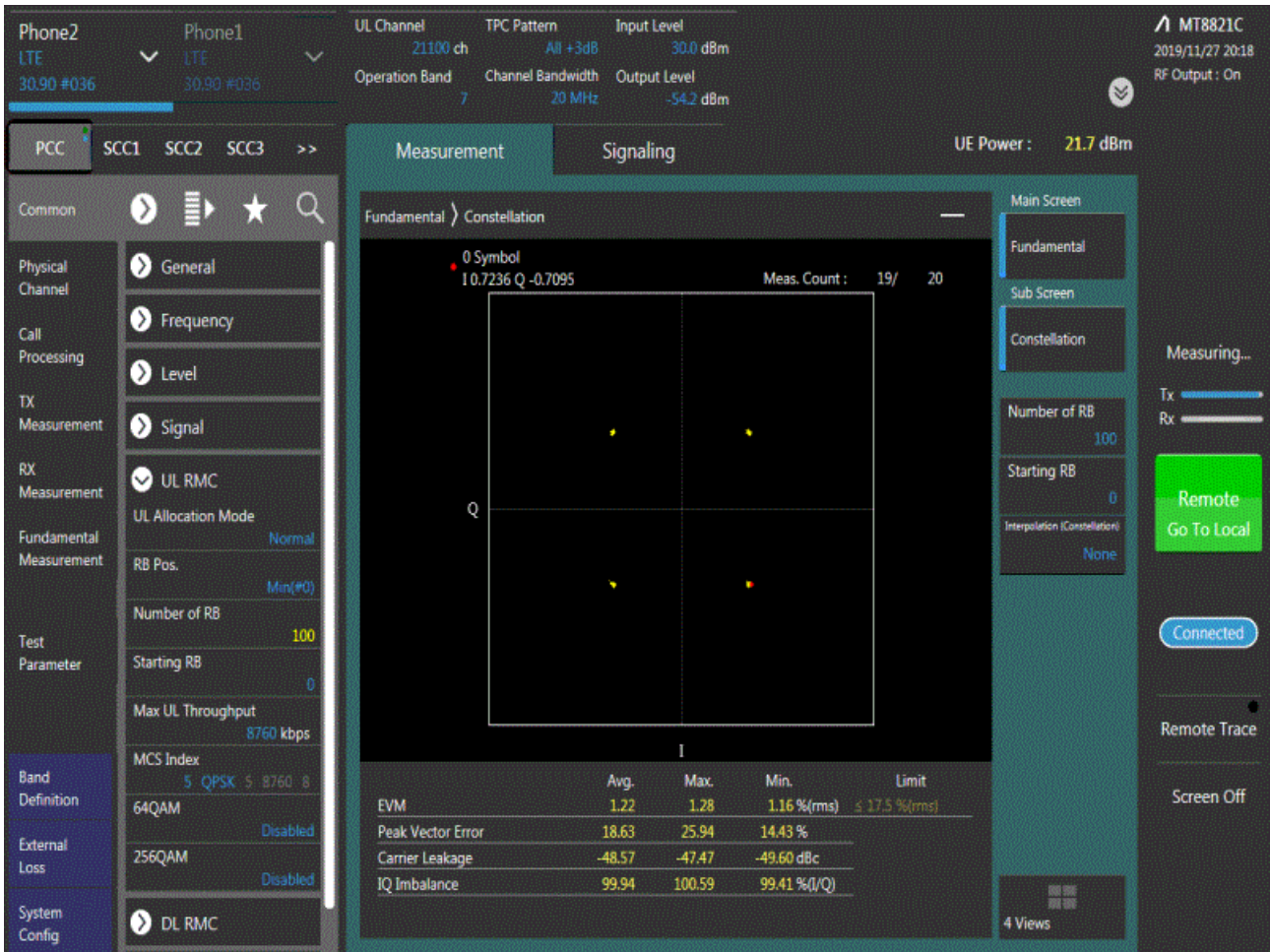


### 3. Modulation Characteristics

#### 3.1. Test Band = LTE Band 7

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

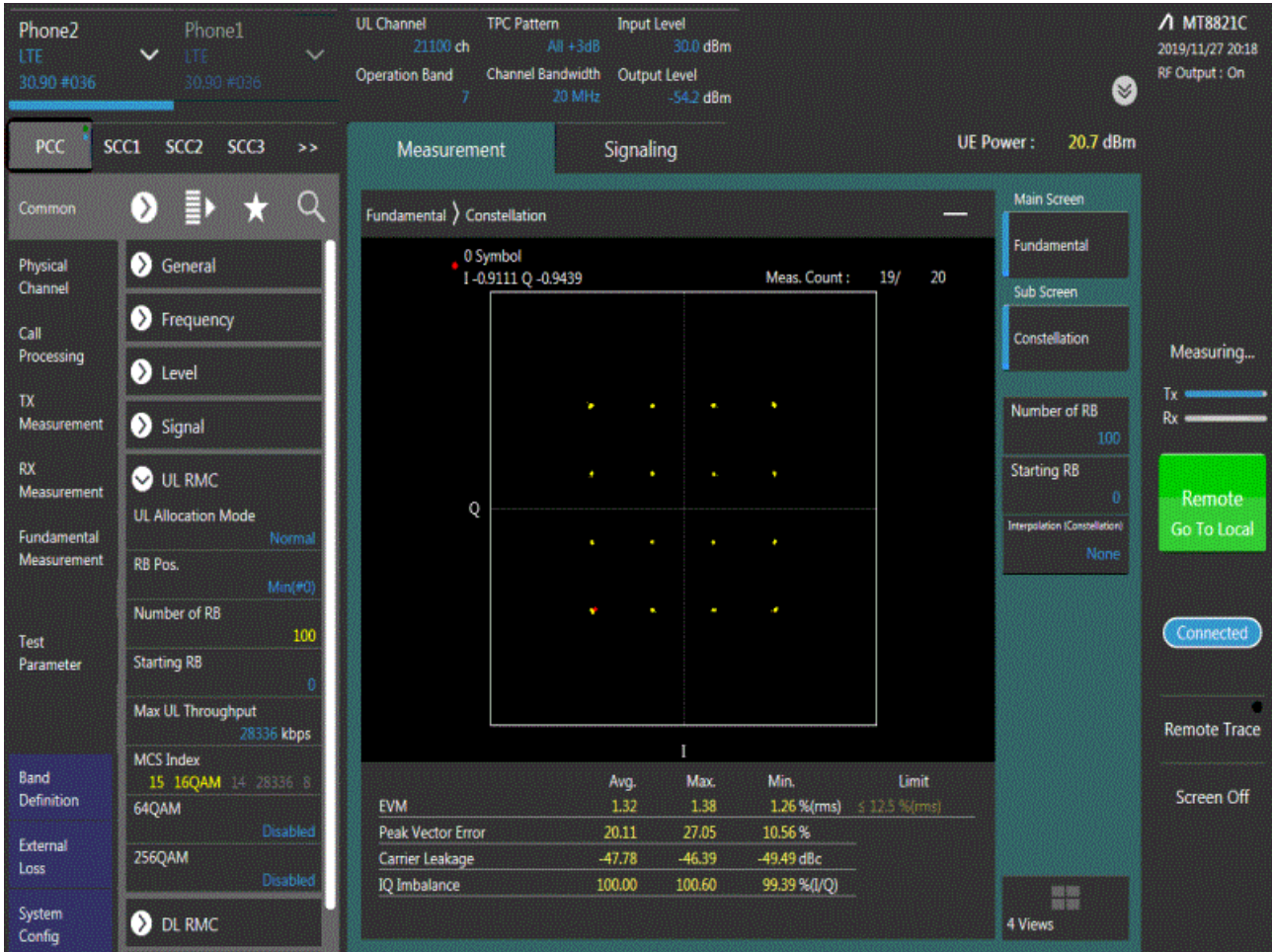
#### 3.1.1.1. Test Channel = MCH





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

#### 3.1.2.1. 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
Band7	5MHz	QPSK	20775	25RB#0	4.486	4.870	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.486	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.486	4.950	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.900	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.496	4.860	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.496	4.880	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	10.520	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.971	9.740	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.971	9.640	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.951	9.600	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.620	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.991	9.580	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.636	14.970	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.636	14.820	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.636	14.880	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.666	14.850	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.636	14.850	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.636	14.850	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.182	19.520	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.142	19.360	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.142	19.360	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.102	19.360	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.102	19.320	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.062	19.520	PASS



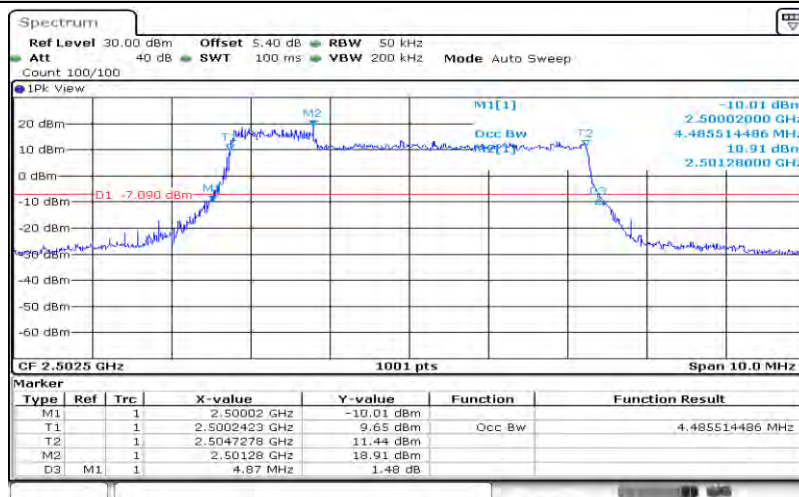
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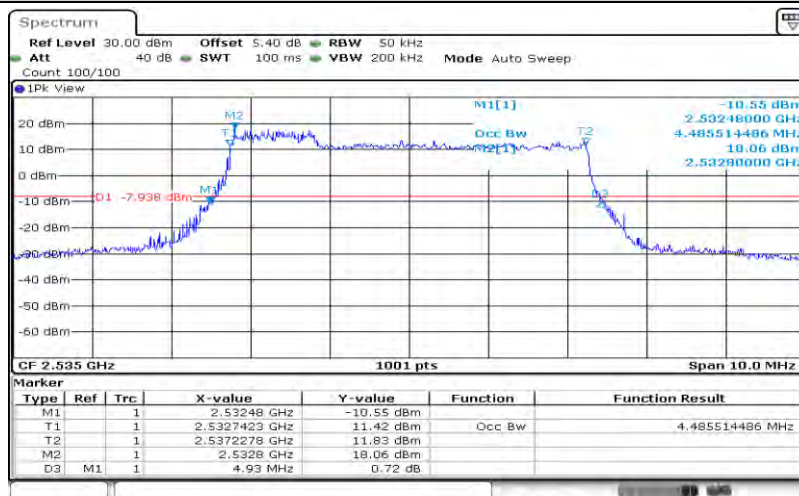
## 4.2. Test Plots

**Band7-5MHz-QPSK-20775-25RB#0-4.486**



Date: 27.NOV 2019 22:44:07

**Band7-5MHz-QPSK-21100-25RB#0-4.486**

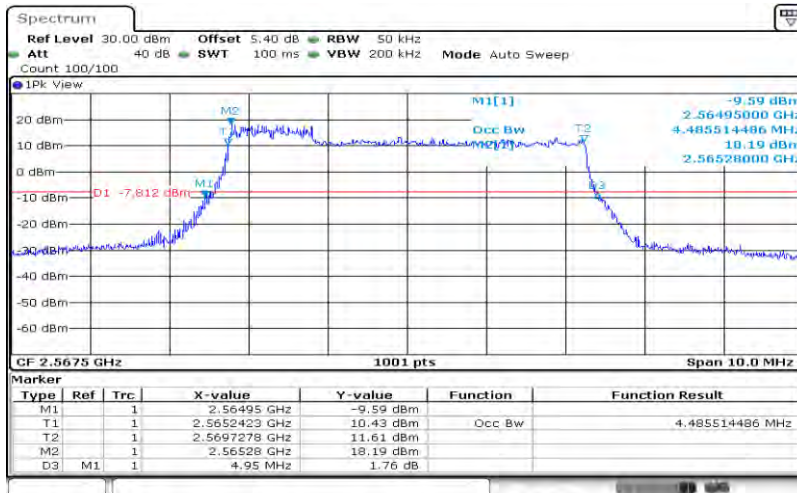


Date: 27.NOV 2019 22:44:47

**Band7-5MHz-QPSK-21425-25RB#0-4.486**



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Date: 27.NOV.2019 22:45:26

**Band7-5MHz-16QAM-20775-25RB#0-4.486**

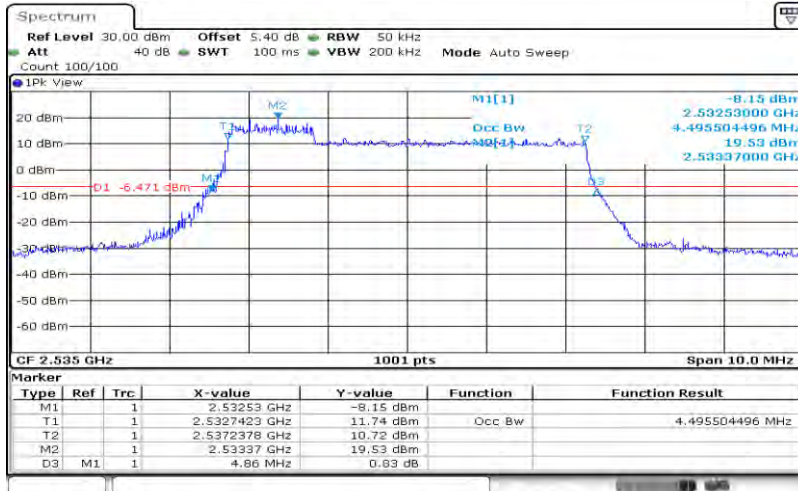


Date: 27.NOV.2019 22:44:27

**Band7-5MHz-16QAM-21100-25RB#0-4.496**

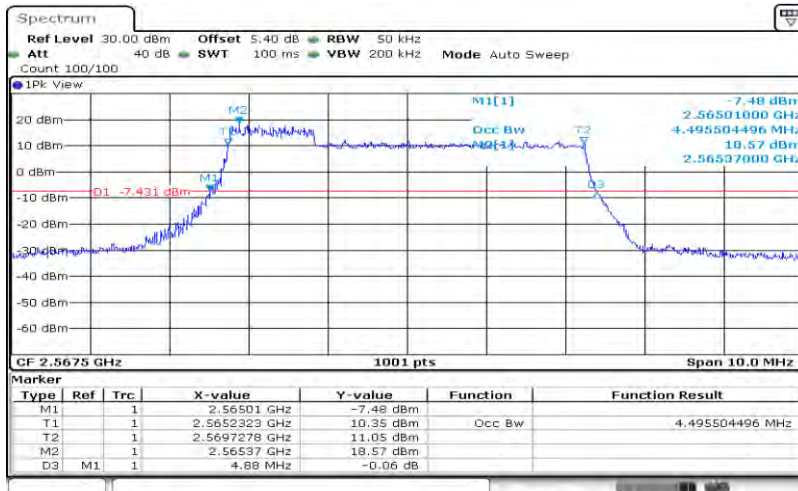


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Date: 27.NOV.2019 22:45:06

**Band7-5MHz-16QAM-21425-25RB#0-4.496**



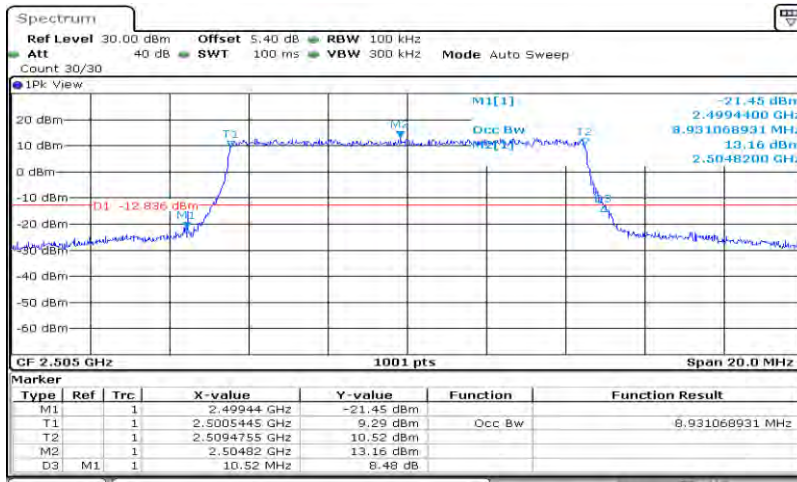
Date: 27.NOV.2019 22:45:46

**Band7-10MHz-QPSK-20800-50RB#0-8.931**



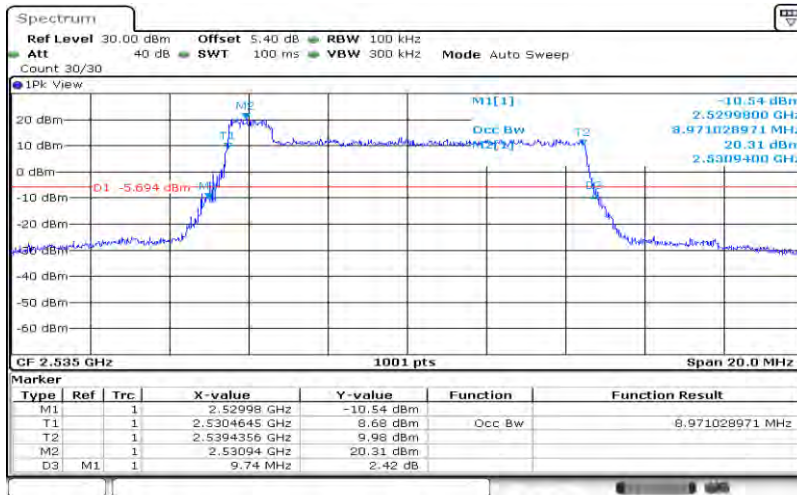
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Date: 27.NOV.2019 22:48:04

**Band7-10MHz-QPSK-21100-50RB#0-8.971**

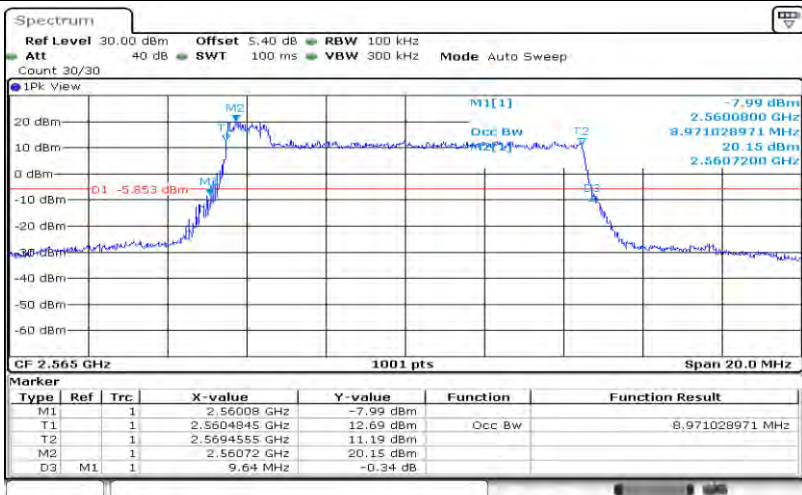


Date: 27.NOV.2019 22:48:30

**Band7-10MHz-QPSK-21400-50RB#0-8.971**

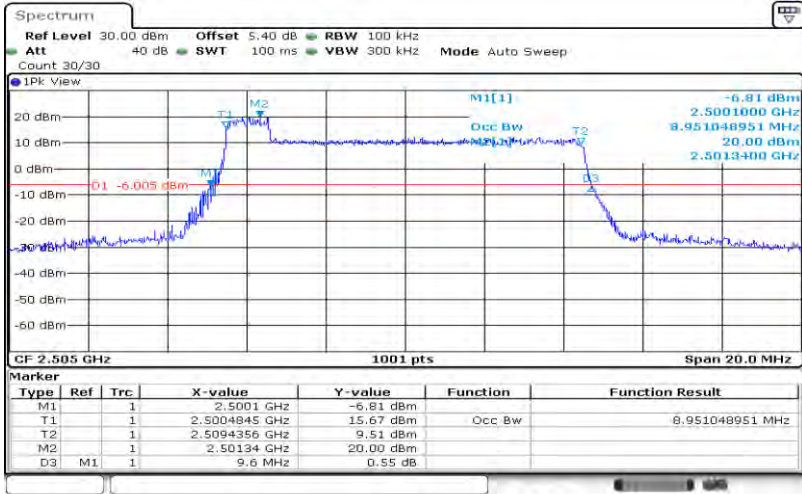


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Date: 27.NOV.2019 22:46:56

**Band7-10MHz-16QAM-20800-50RB#0-8.951**



Date: 27.NOV.2019 22:46:17

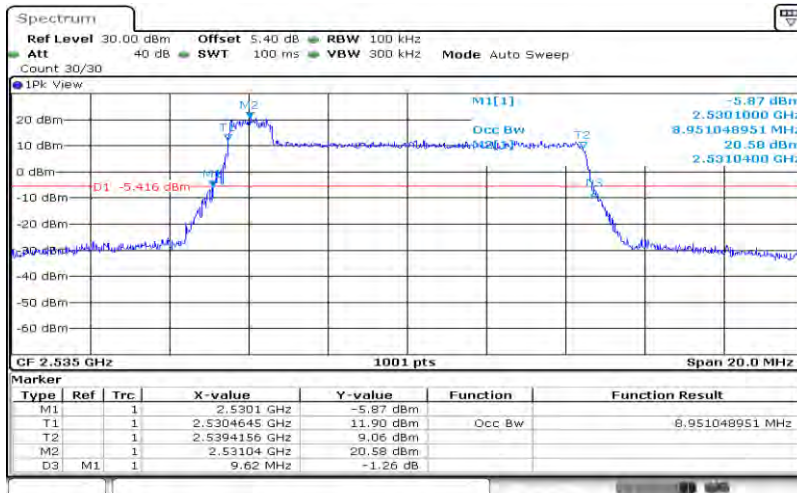
**Band7-10MHz-16QAM-21100-50RB#0-8.951**



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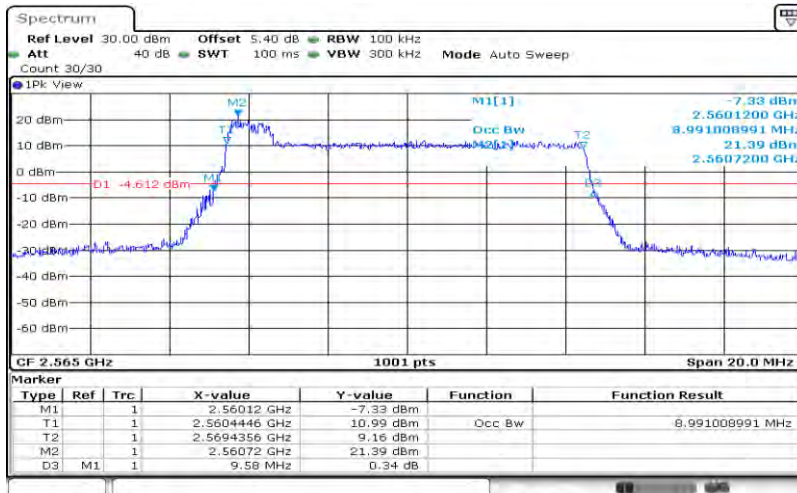
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Date: 27.NOV.2019 22:46:43

**Band7-10MHz-16QAM-21400-50RB#0-8.991**



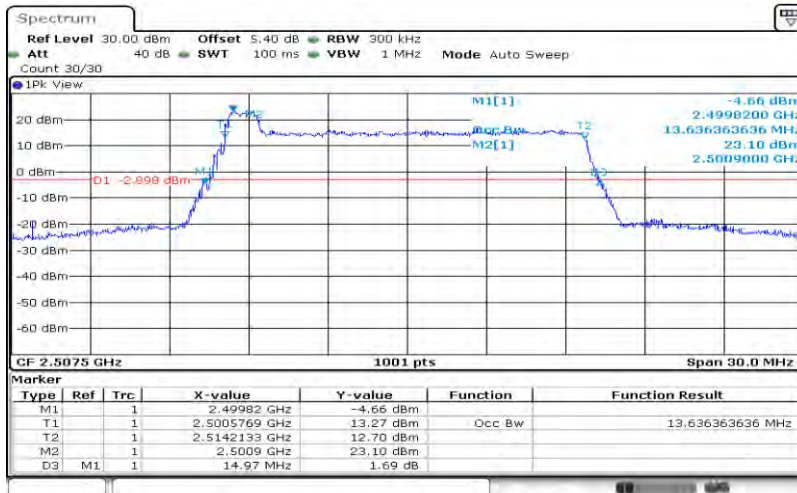
Date: 27.NOV.2019 22:47:08

**Band7-15MHz-QPSK-20825-75RB#0-13.636**



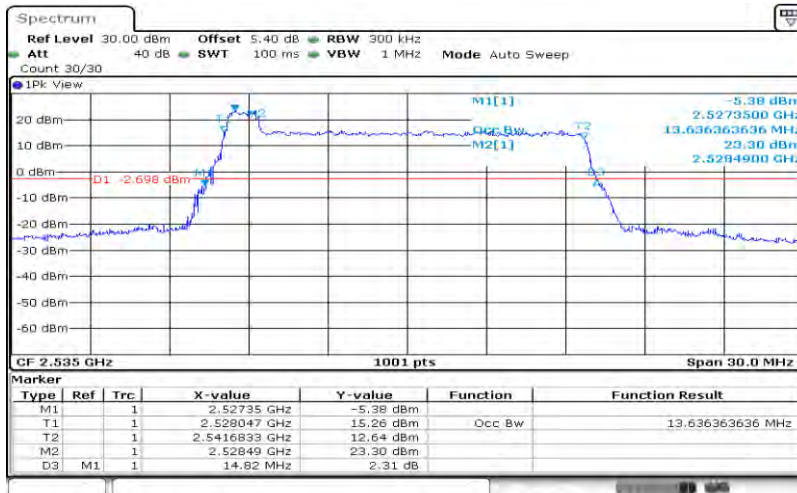
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Date: 27.NOV.2019 22:47:27

**Band7-15MHz-QPSK-21100-75RB#0-13.636**



Date: 27.NOV.2019 22:47:52

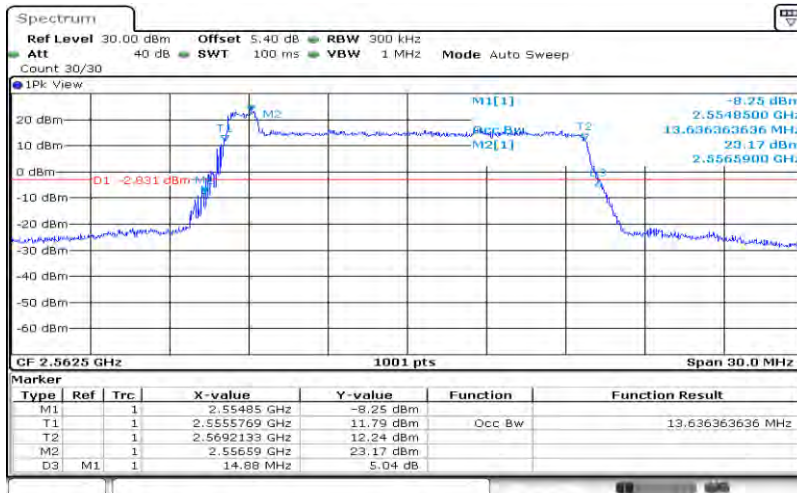
**Band7-15MHz-QPSK-21375-75RB#0-13.636**



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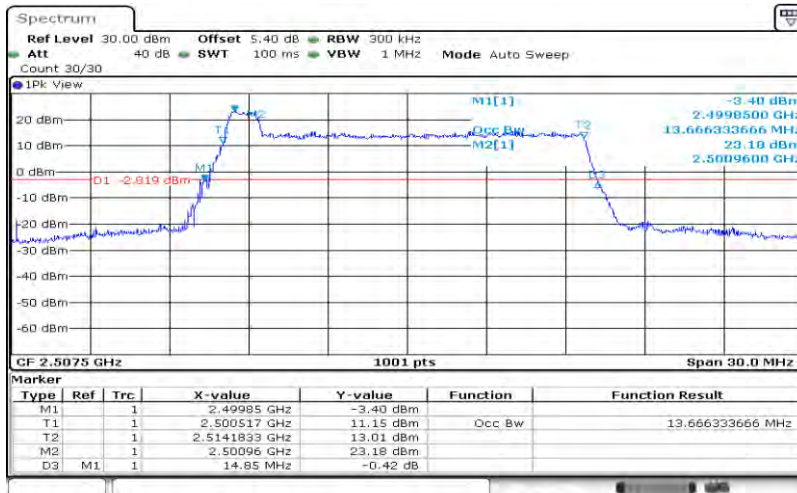
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Date: 27.NOV.2019 22:48:18

**Band7-15MHz-16QAM-20825-75RB#0-13.666**



Date: 27.NOV.2019 22:47:39

**Band7-15MHz-16QAM-21100-75RB#0-13.636**



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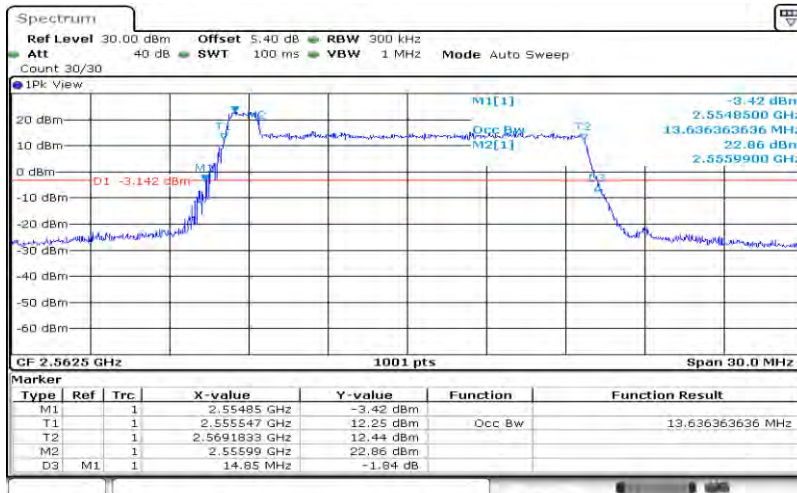
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Date: 27.NOV.2019 22:48:05

**Band7-15MHz-16QAM-21375-75RB#0-13.636**



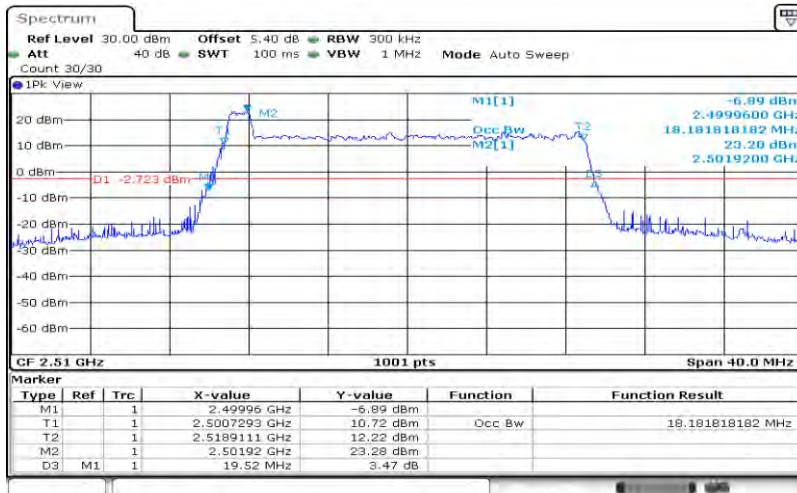
Date: 27.NOV.2019 22:48:31

**Band7-20MHz-QPSK-20850-100RB#0-18.182**



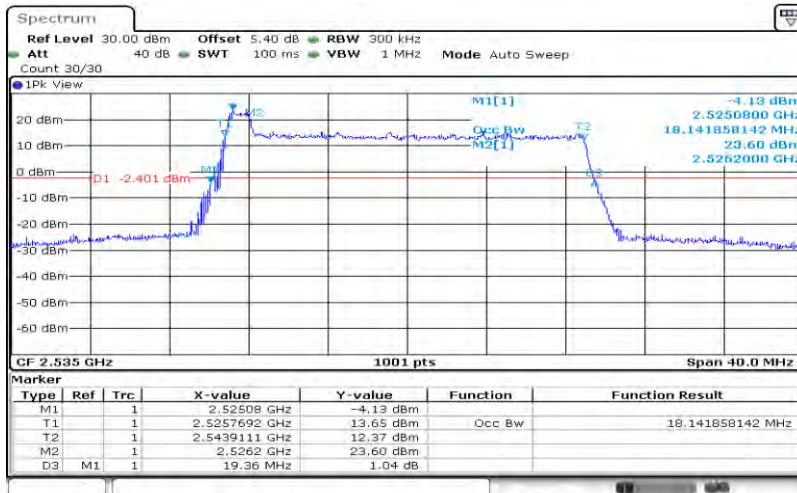
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Date: 27.NOV.2019 22:48:49

**Band7-20MHz-QPSK-21100-100RB#0-18.142**

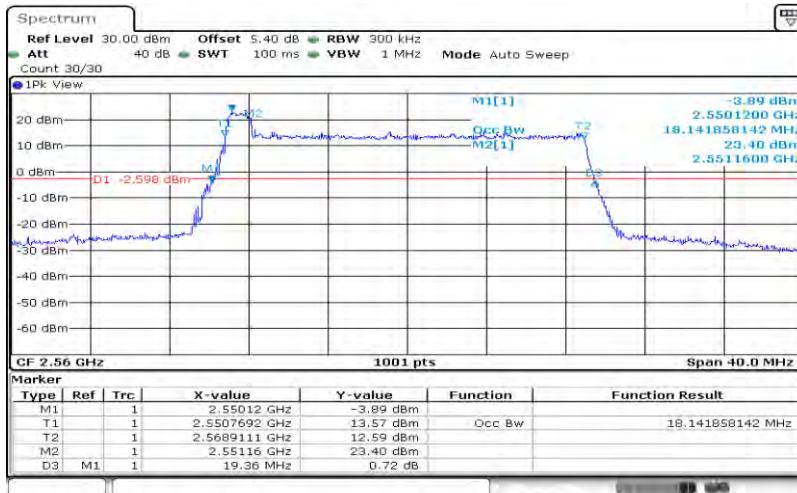


Date: 27.NOV.2019 22:49:15

**Band7-20MHz-QPSK-21350-100RB#0-18.142**

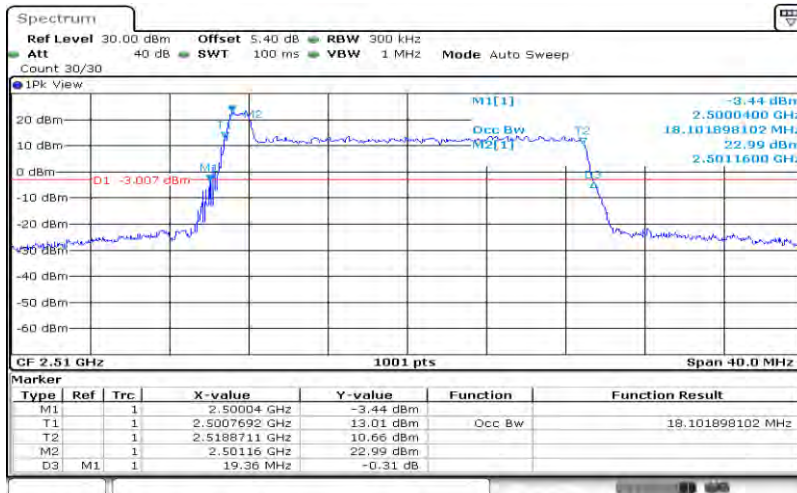


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Date: 27.NOV.2019 22:48:41

**Band7-20MHz-16QAM-20850-100RB#0-18.102**



Date: 27.NOV.2019 22:49:02

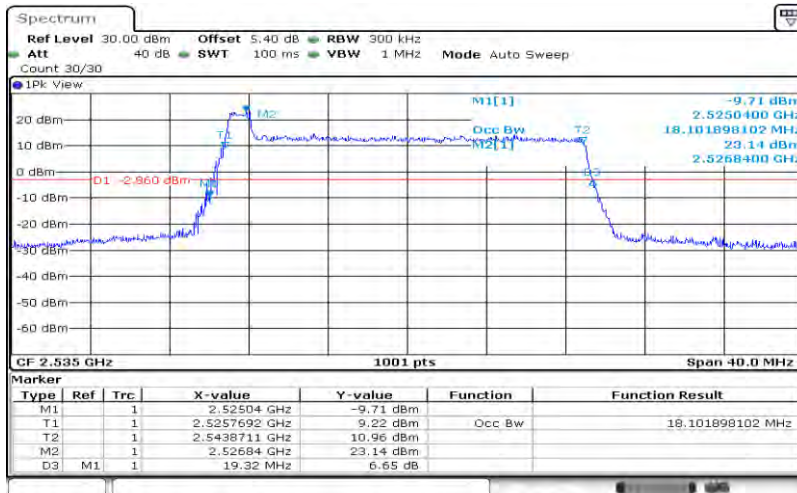
**Band7-20MHz-16QAM-21100-100RB#0-18.102**



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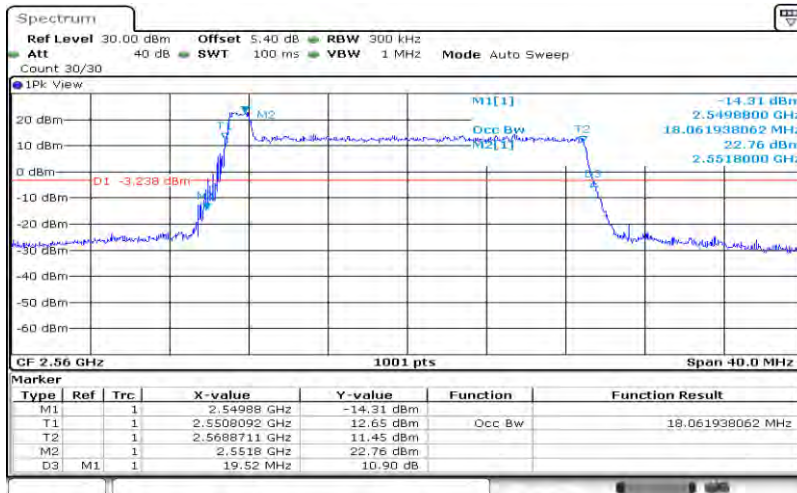
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Date: 27.NOV.2019 22:49:28

**Band7-20MHz-16QAM-21350-100RB#0-18.062**



Date: 27.NOV.2019 22:49:53



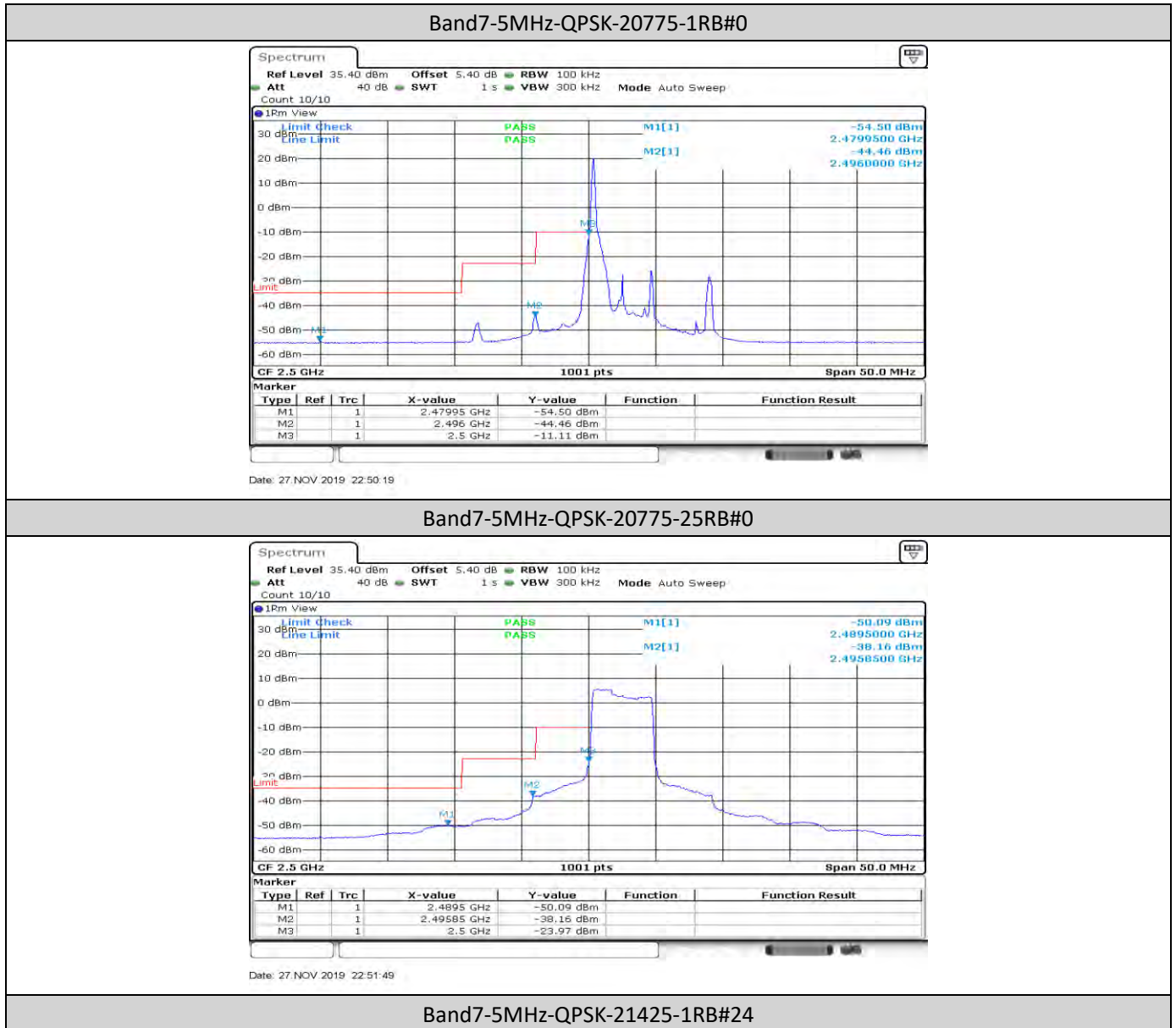
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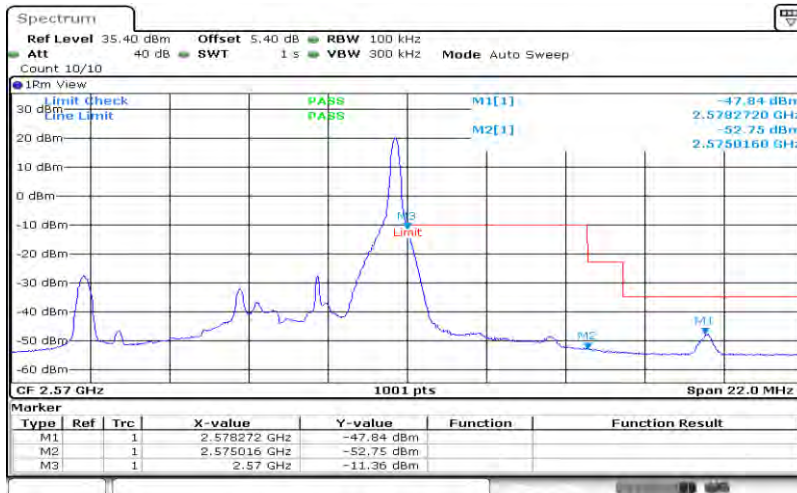




## 5. Band Edge Compliance

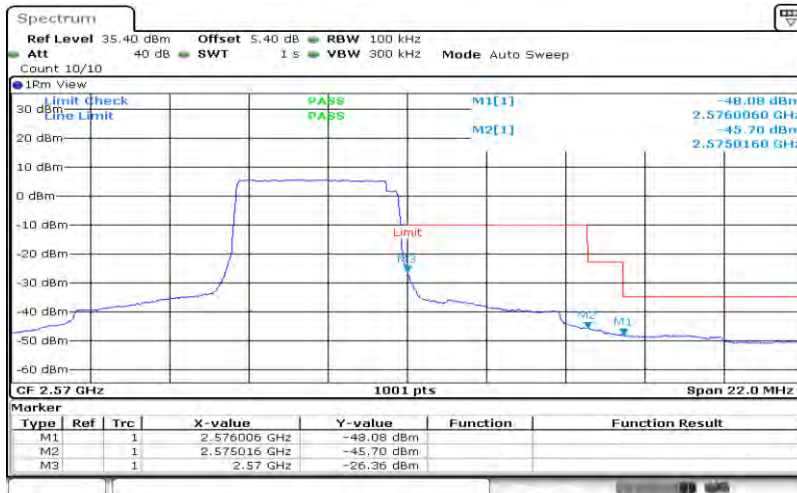
### 5.1. Test Plots





Date: 27.NOV.2019 22:51:04

Band7-5MHz-QPSK-21425-25RB#0

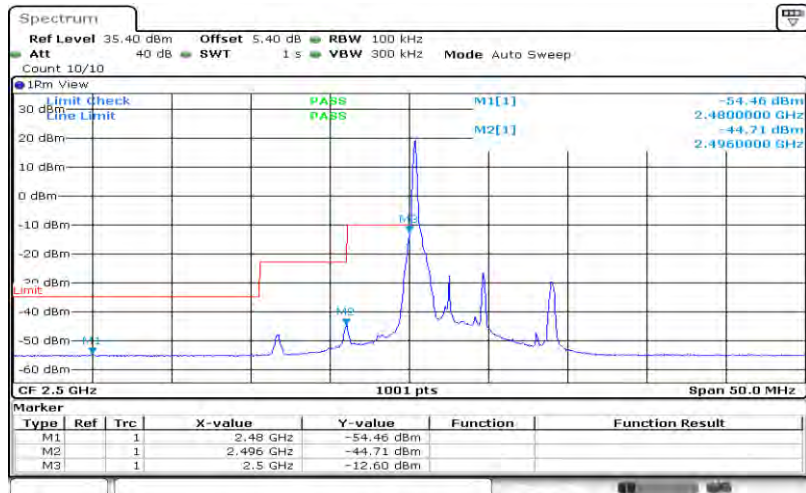


Date: 27.NOV.2019 22:52:30

Band7-5MHz-16QAM-20775-1RB#0



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Date: 27.NOV.2019 22:50:39

**Band7-5MHz-16QAM-20775-25RB#0**



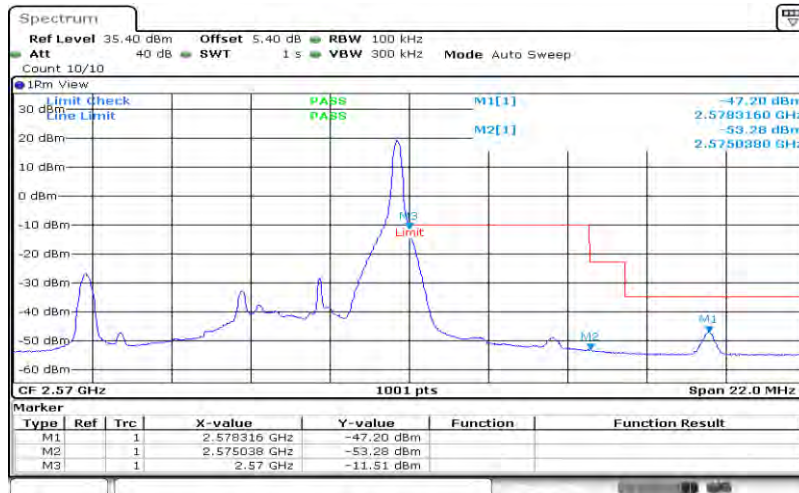
Date: 27.NOV.2019 22:52:09

**Band7-5MHz-16QAM-21425-1RB#24**

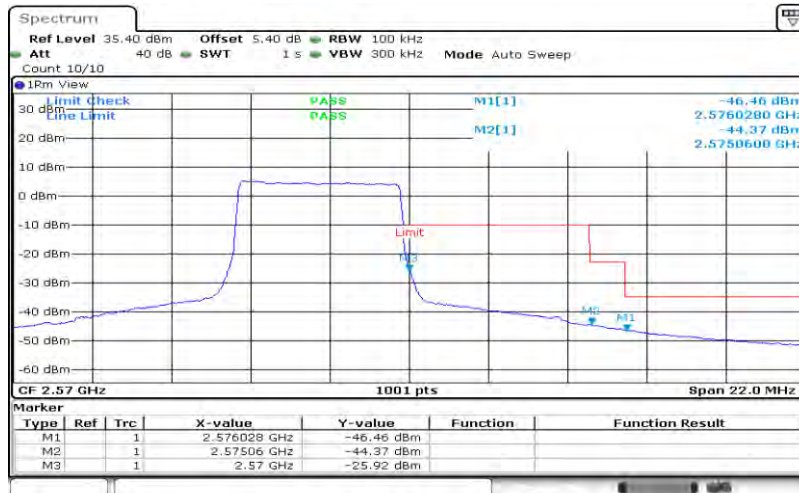


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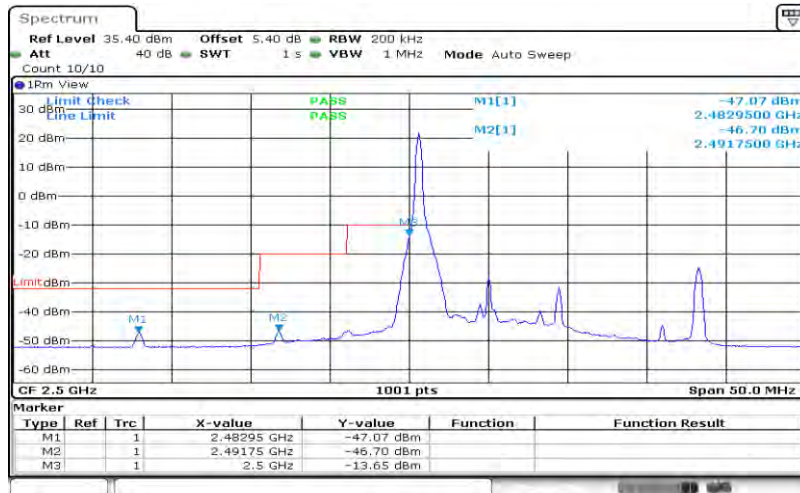
**Band7-5MHz-16QAM-21425-25RB#0**



**Band7-10MHz-QPSK-20800-1RB#0**

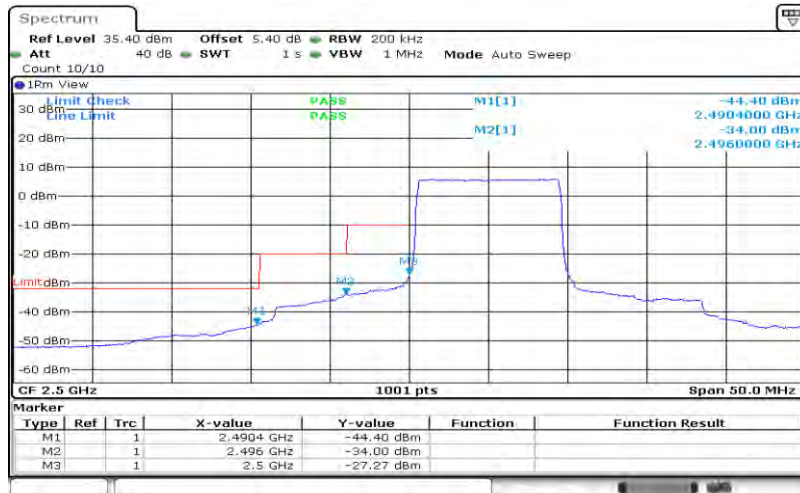


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Date: 27.NOV.2019 22:53:16

**Band7-10MHz-QPSK-20800-50RB#0**

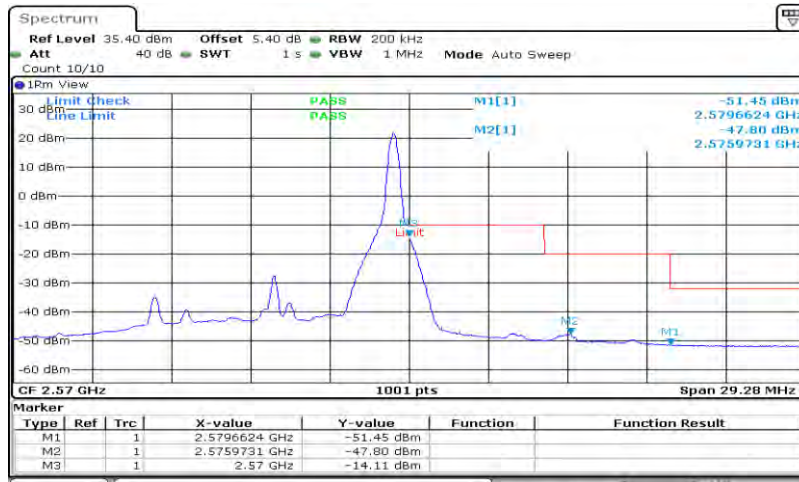


Date: 27.NOV.2019 22:54:46

**Band7-10MHz-QPSK-21400-1RB#49**

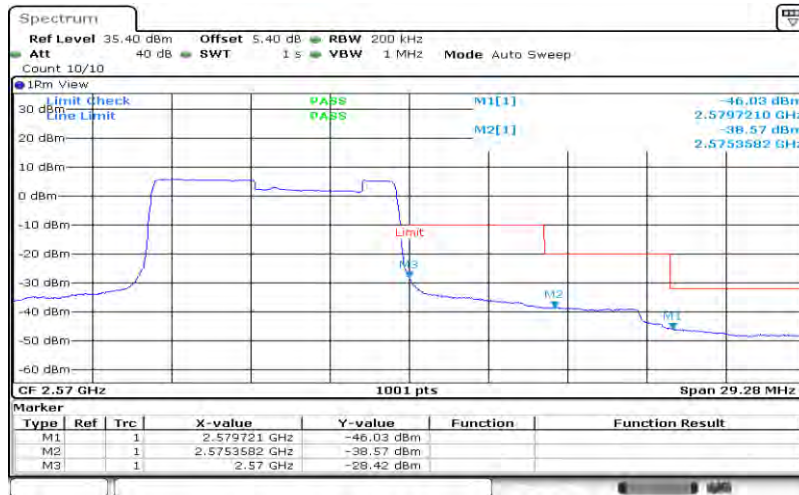


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Date: 27.NOV 2019 22:54:01

**Band7-10MHz-QPSK-21400-50RB#0**



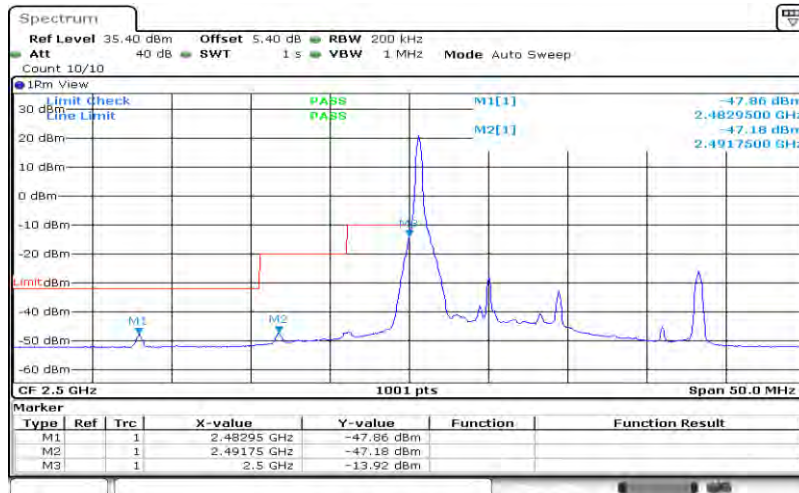
Date: 27.NOV 2019 22:55:26

**Band7-10MHz-16QAM-20800-1RB#0**



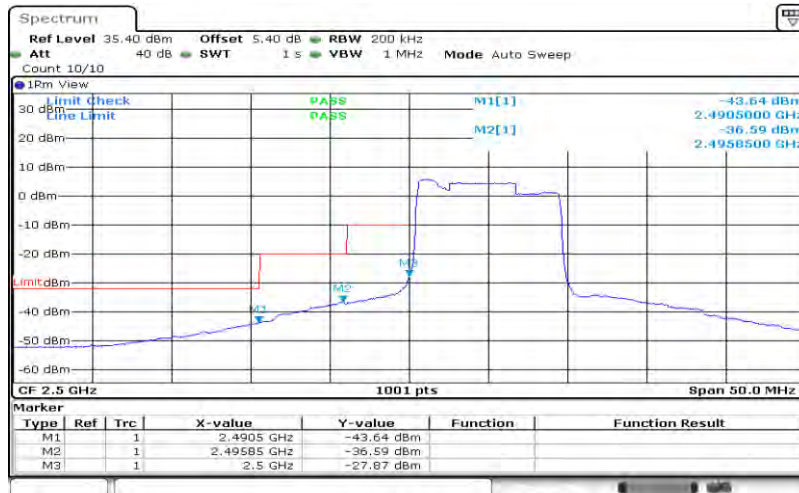
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Date: 27.NOV.2019 22:53:37

**Band7-10MHz-16QAM-20800-50RB#0**

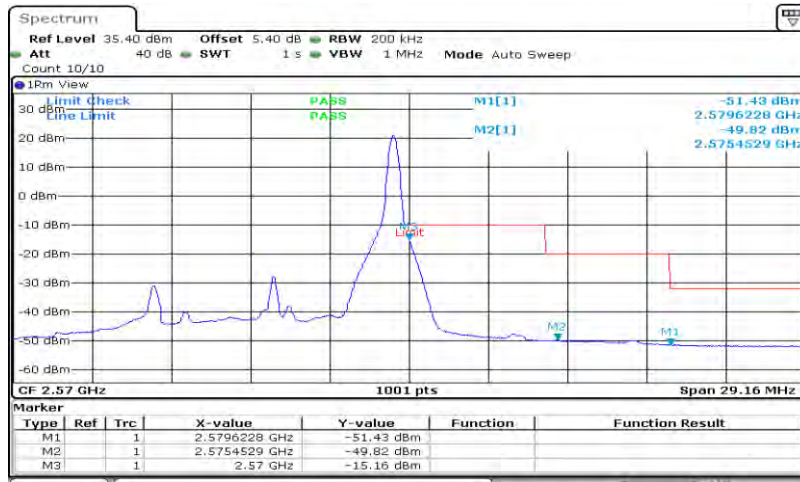


Date: 27.NOV.2019 22:55:06

**Band7-10MHz-16QAM-21400-1RB#49**

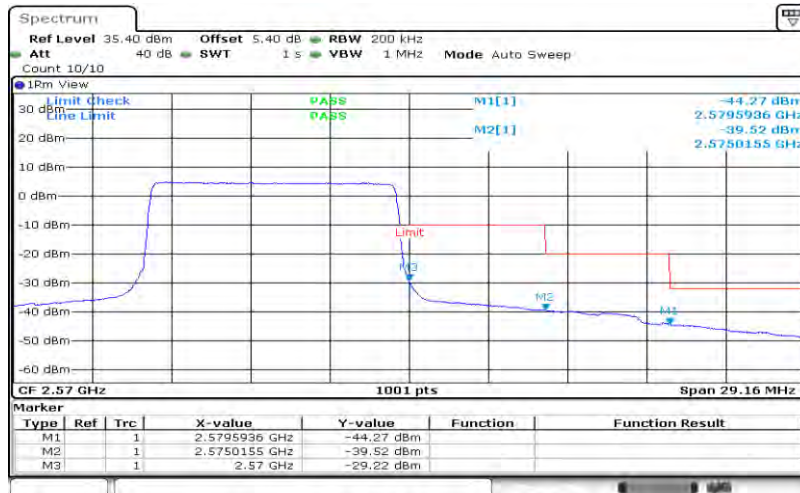


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Date: 27.NOV 2019 22:54:21

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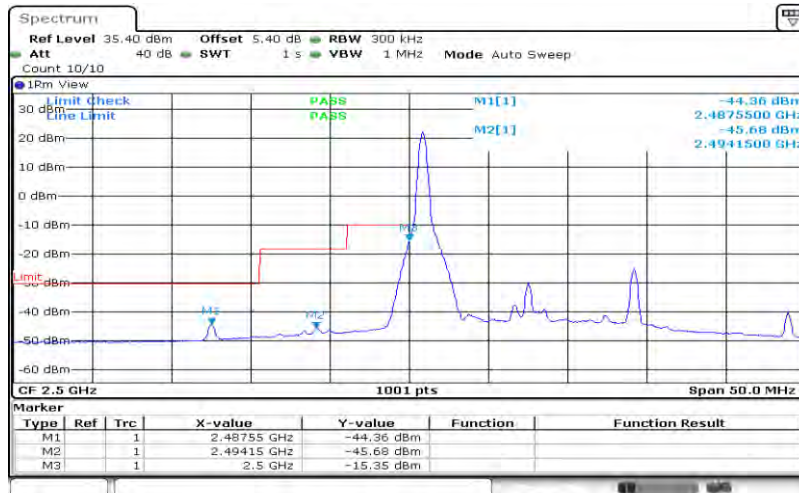


Date: 27.NOV 2019 22:55:47

**Band7-15MHz-QPSK-20825-1RB#0**

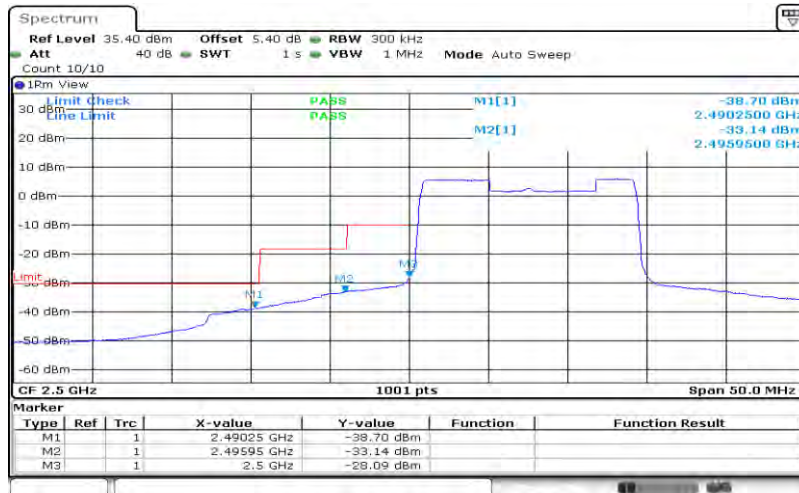


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Date: 27.NOV.2019 22:56:13

**Band7-15MHz-QPSK-20825-75RB#0**



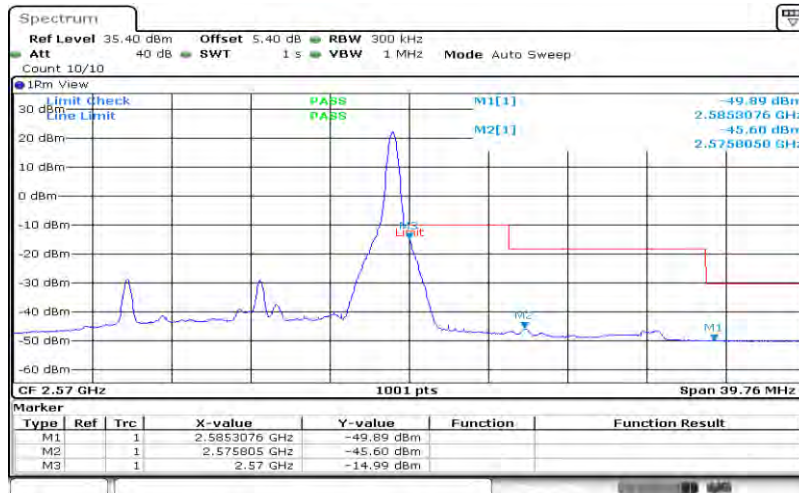
Date: 27.NOV.2019 22:57:43

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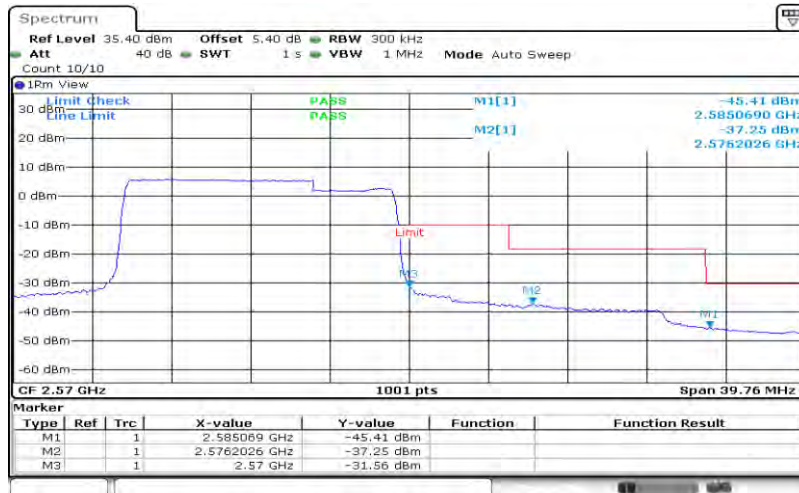
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Date: 27.NOV.2019 22:56:58

**Band7-15MHz-QPSK-21375-75RB#0**

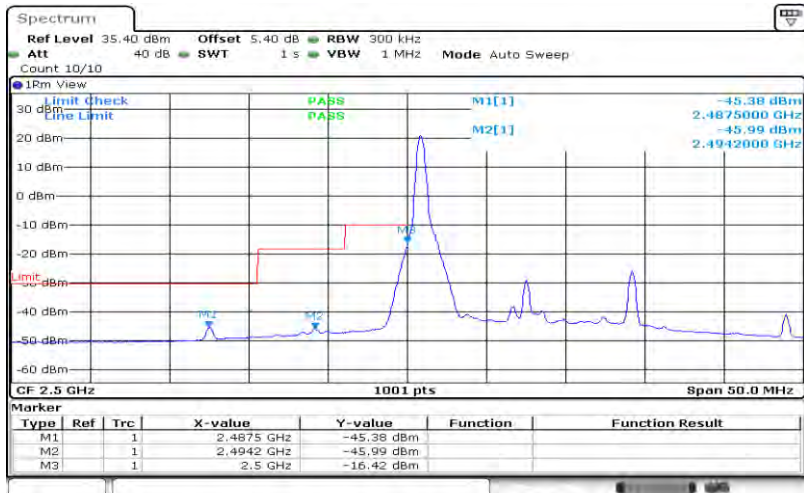


Date: 27.NOV.2019 22:58:24

**Band7-15MHz-16QAM-20825-1RB#0**

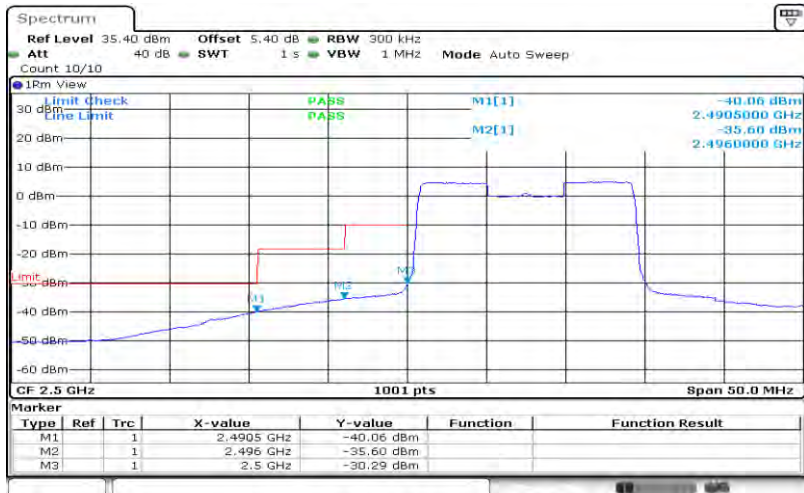


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Date: 27.NOV.2019 22:56:33

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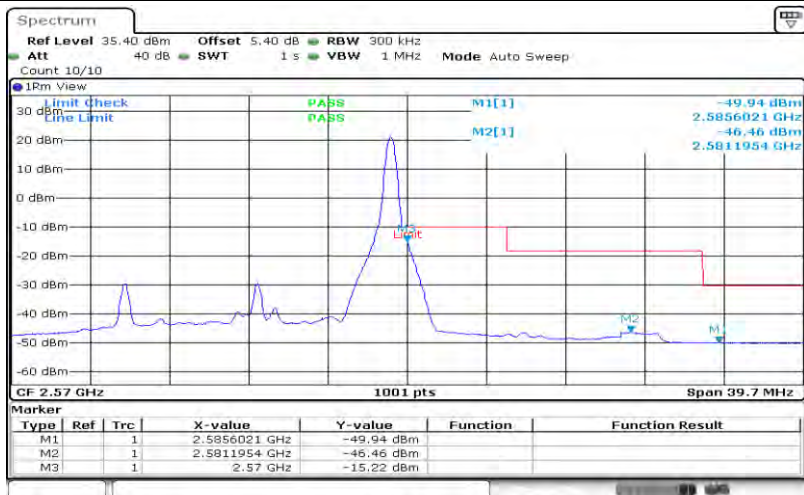


Date: 27.NOV.2019 22:58:04

**Band7-15MHz-16QAM-21375-1RB#74**

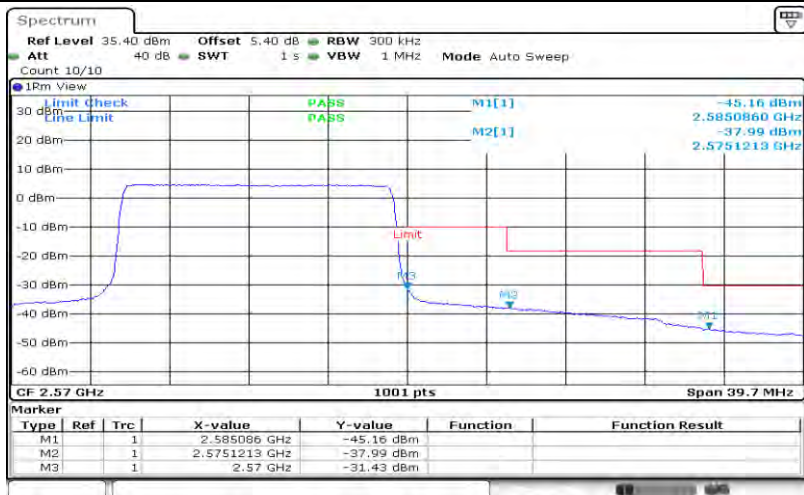


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Date: 27.NOV.2019 22:57:18

Band7-15MHz-16QAM-21375-75RB#0



Date: 27.NOV.2019 22:58:45

Band7-20MHz-QPSK-20850-1RB#0

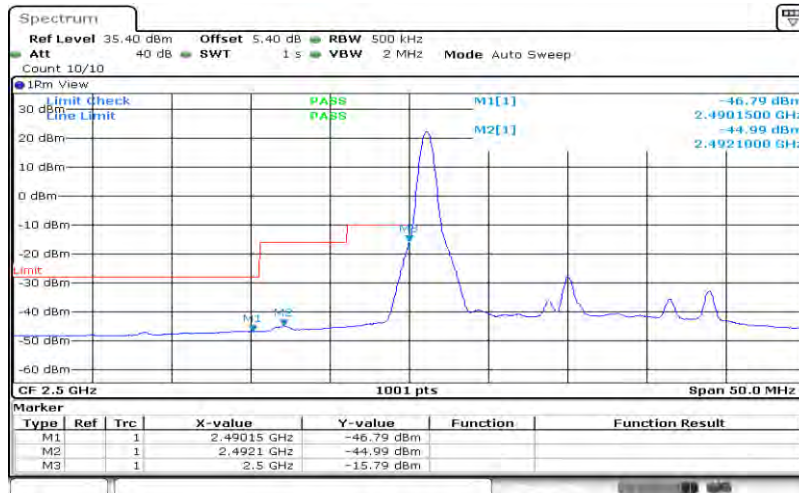


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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

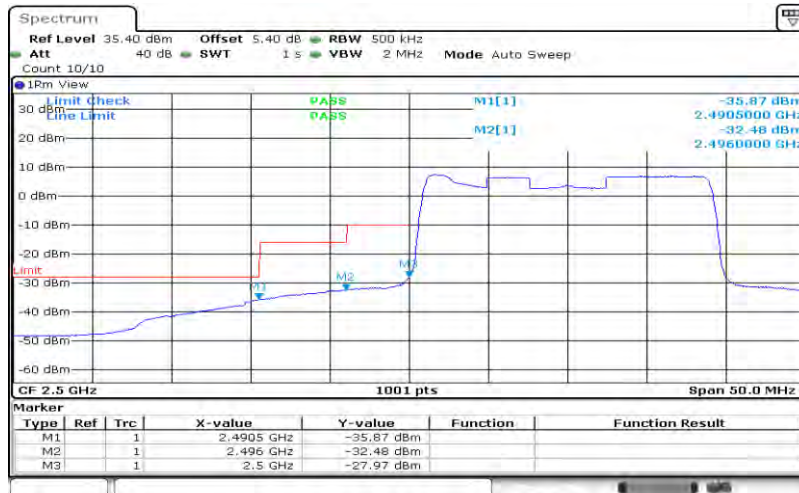
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com





Date: 27.NOV.2019 22:59:10

**Band7-20MHz-QPSK-20850-100RB#0**

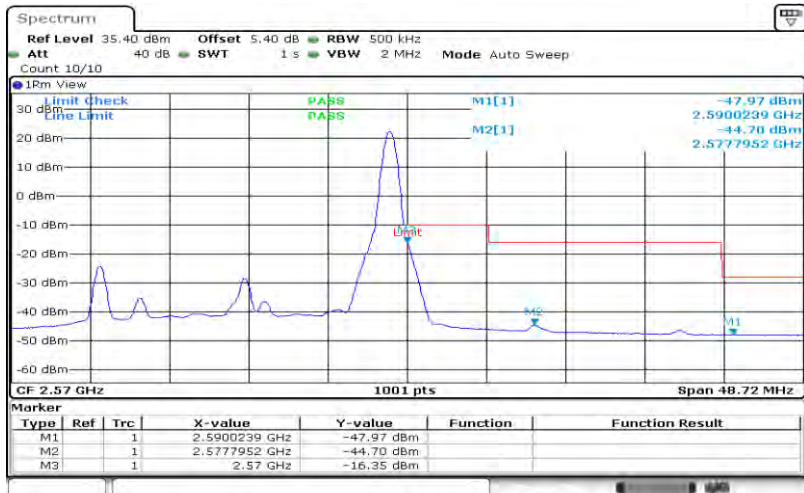


Date: 27.NOV.2019 23:00:40

**Band7-20MHz-QPSK-21350-1RB#99**

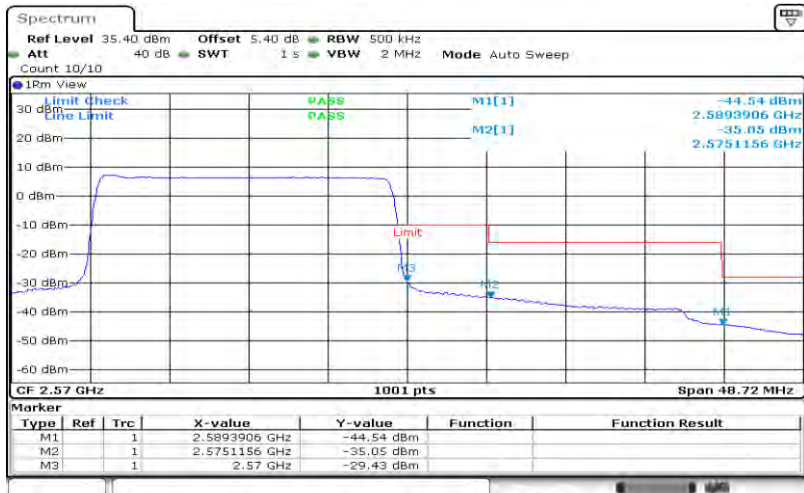


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Date: 27.NOV 2019 22:59:55

**Band7-20MHz-QPSK-21350-100RB#0**



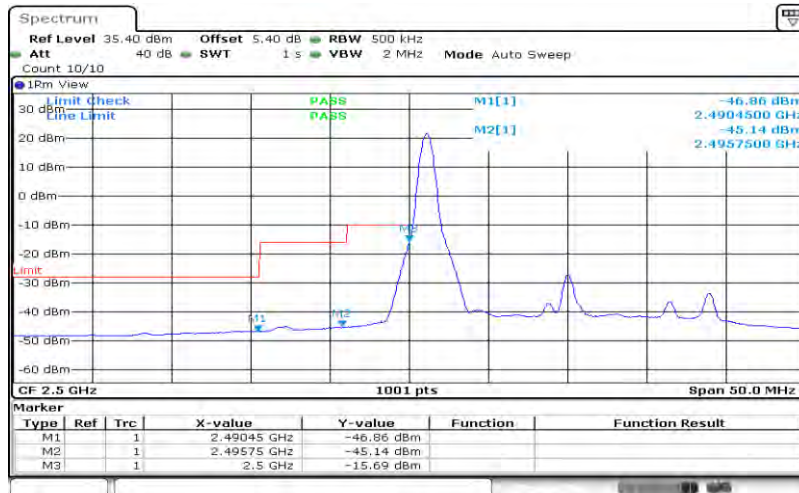
Date: 27.NOV 2019 23:01:21

**Band7-20MHz-16QAM-20850-1RB#0**



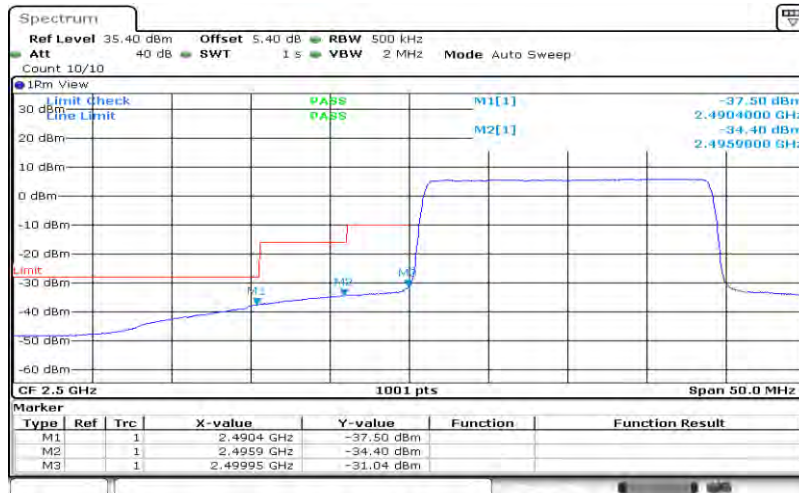
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Date: 27.NOV.2019 22:59:31

**Band7-20MHz-16QAM-20850-100RB#0**



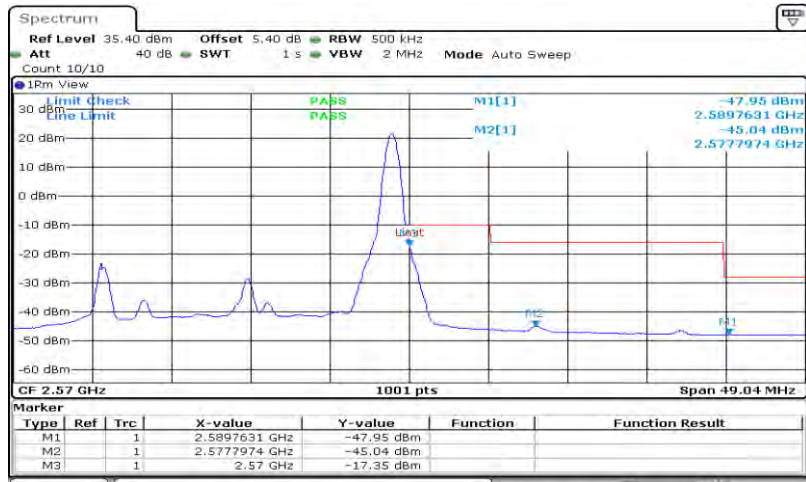
Date: 27.NOV.2019 23:01:00

**Band7-20MHz-16QAM-21350-1RB#99**



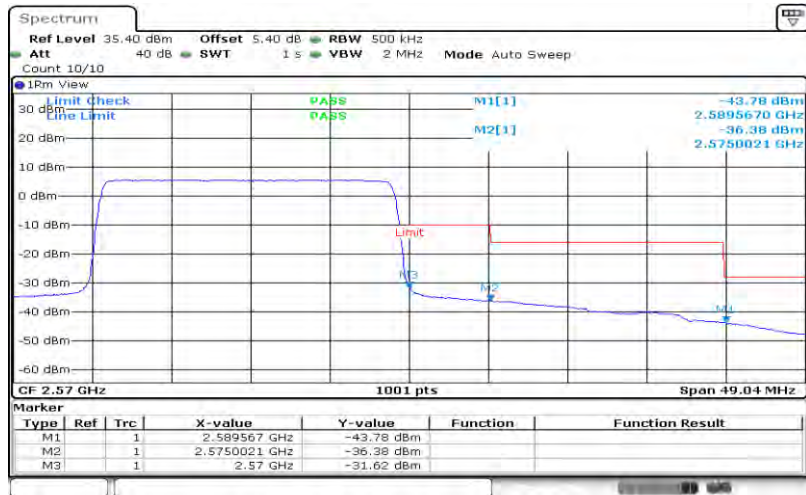
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Date: 27.NOV 2019 23:00:16

**Band7-20MHz-16QAM-21350-100RB#0**



Date: 27.NOV 2019 23:01:42



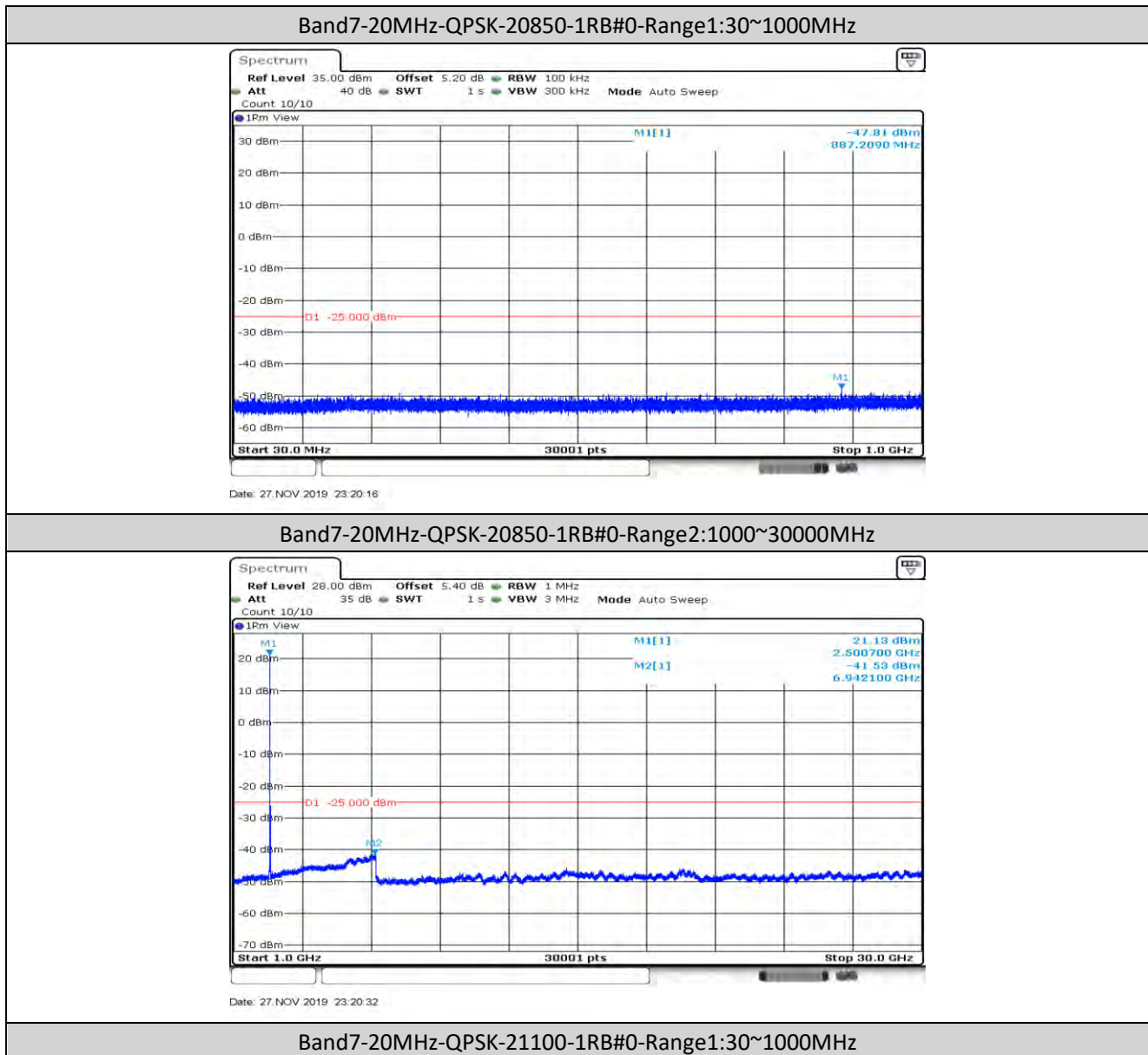
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## 6. Spurious Emission at Antenna Terminal

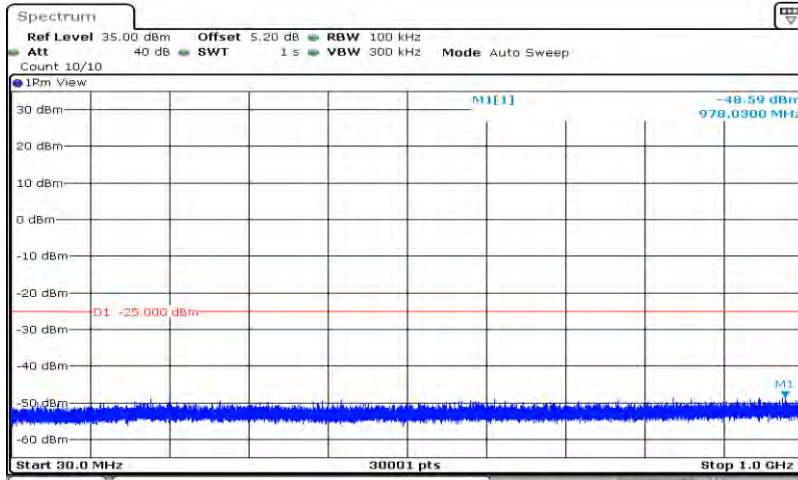
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

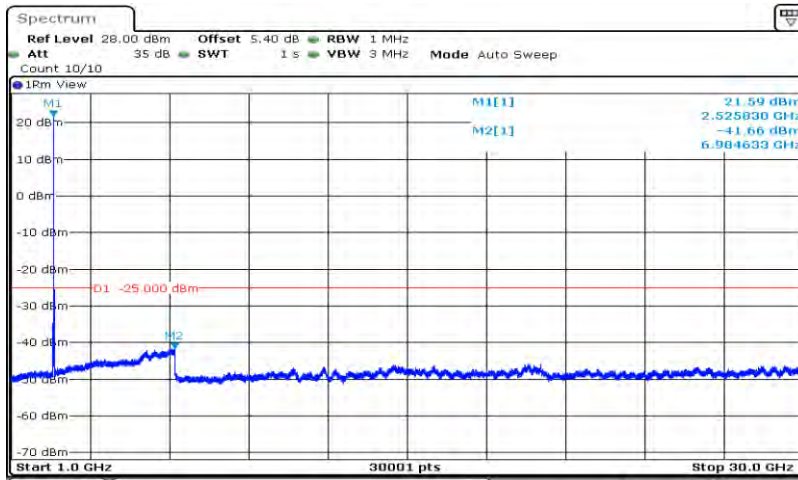


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Date: 27.NOV.2019 23.21:26

**Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz**



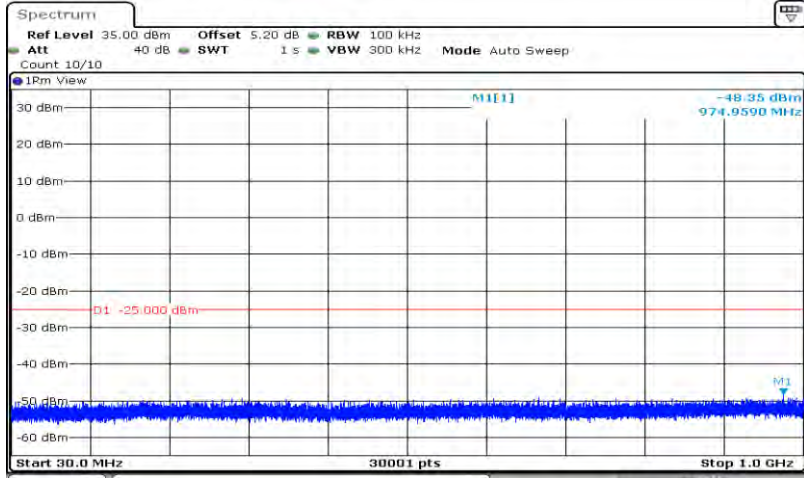
Date: 27.NOV.2019 23.21:42

**Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz**



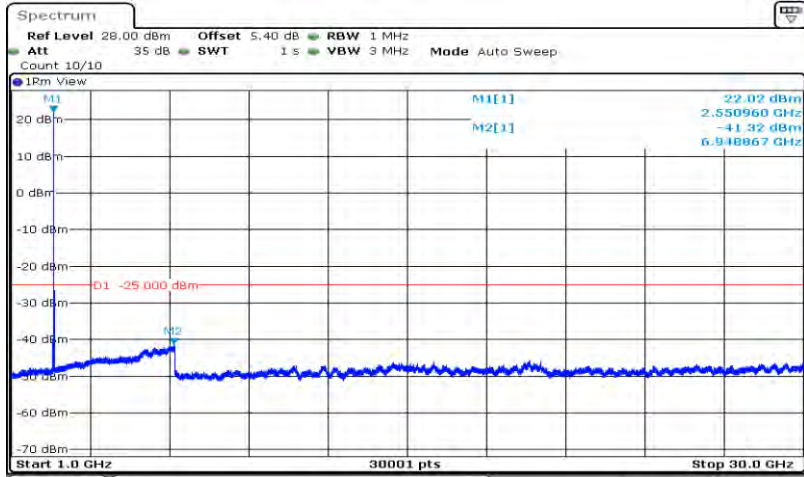
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Date: 27.NOV.2019 23:22:36

**Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz**

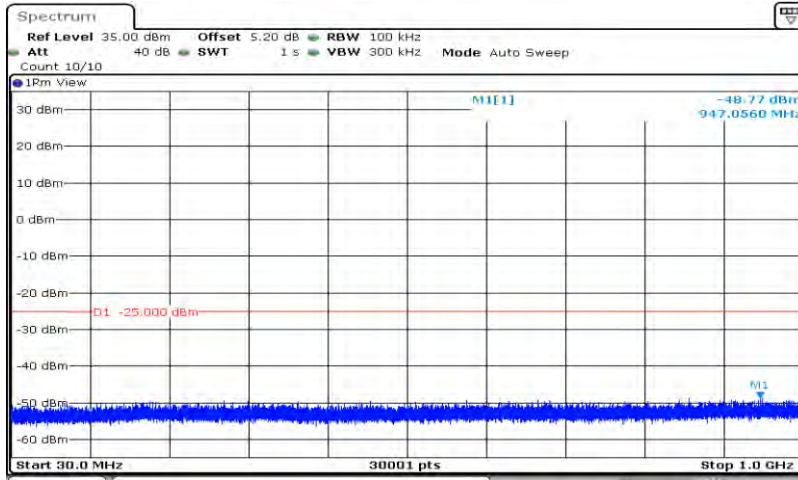


Date: 27.NOV.2019 23:22:52

**Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz**

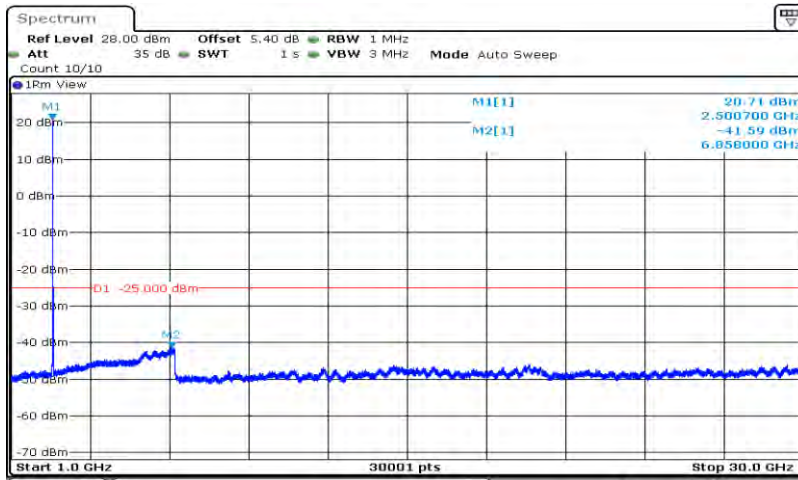


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Date: 27.NOV.2019 23:20:51

**Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz**

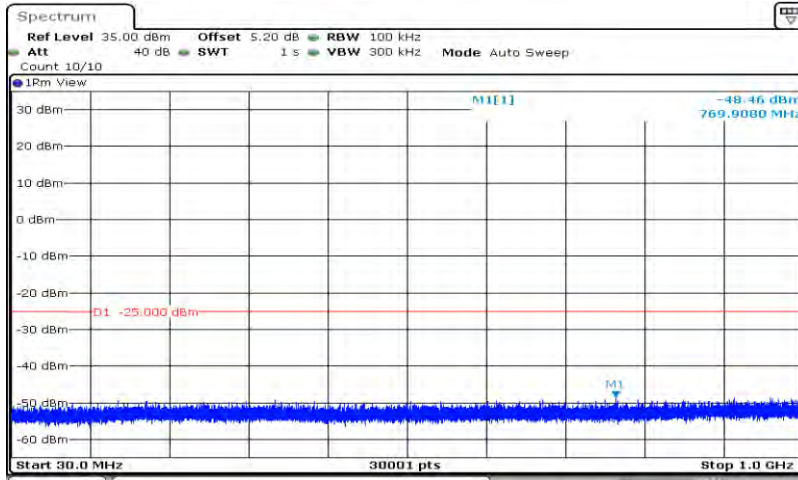


Date: 27.NOV.2019 23:21:07

**Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz**

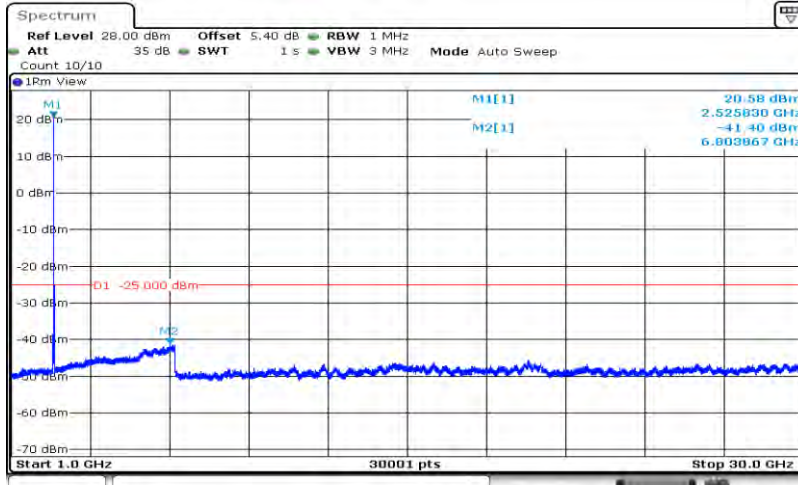


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Date: 27.NOV.2019 23:22:01

**Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz**



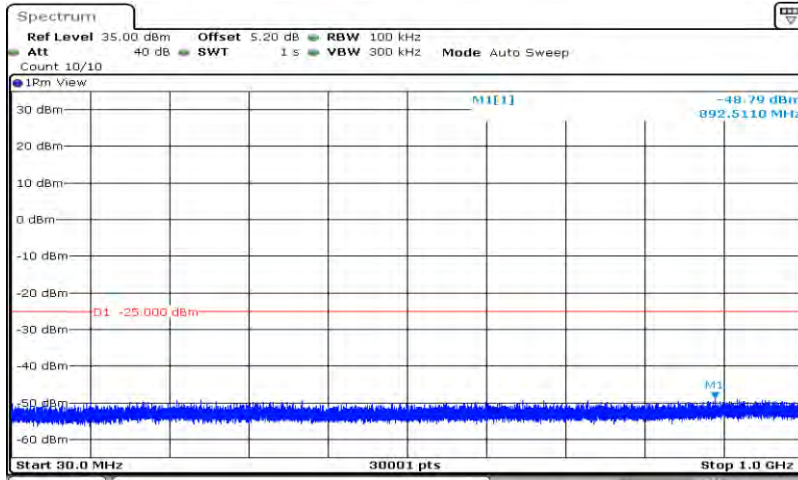
Date: 27.NOV.2019 23:22:17

**Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz**



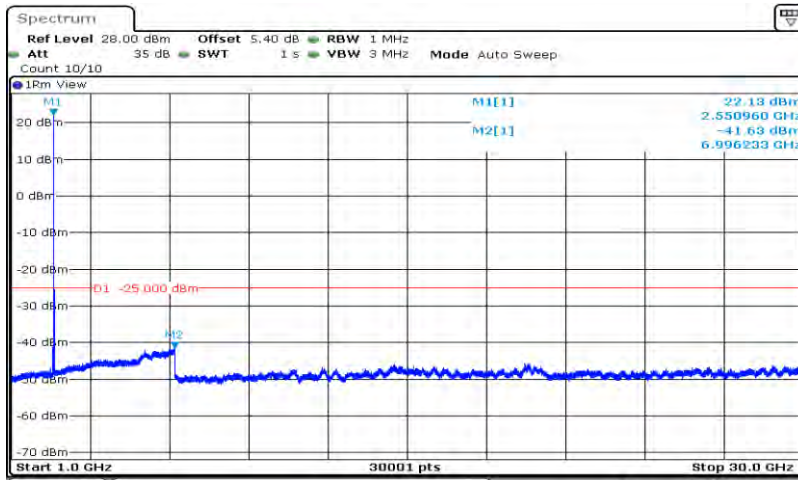
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Date: 27.NOV.2019 23:23:11

**Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz**



Date: 27.NOV.2019 23:23:27



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE Band 7

#### 7.1.1. Test Mode = LTE/TM1 (Main Ant)

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.2116	-64.78	-25.00	39.78	Vertical
752.2011	-62.21	-25.00	37.21	Vertical
1699.7399	-45.15	-25.00	20.15	Vertical
7321.3729	-55.15	-25.00	30.15	Vertical
14490.4596	-45.27	-25.00	20.27	Vertical
17992.1997	-36.78	-25.00	11.78	Vertical
42.0286	-64.48	-25.00	39.48	Horizontal
230.9941	-68.89	-25.00	43.89	Horizontal
2117.0234	-41.93	-25.00	16.93	Horizontal
7351.9741	-55.49	-25.00	30.49	Horizontal
16396.1358	-41.02	-25.00	16.02	Horizontal
17993.9998	-41.45	-25.00	16.45	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.8164	-66.18	-25.00	41.18	Vertical
864.7752	-60.90	-25.00	35.90	Vertical
1712.9426	-45.42	-25.00	20.42	Vertical
7344.7738	-55.47	-25.00	30.47	Vertical
14489.2596	-45.67	-25.00	20.67	Vertical
17995.7998	-38.04	-25.00	13.04	Vertical
45.0843	-64.65	-25.00	39.65	Horizontal
233.7587	-68.36	-25.00	43.36	Horizontal
1800.5601	-44.54	-25.00	19.54	Horizontal
7362.7745	-56.13	-25.00	31.13	Horizontal
16385.9354	-41.10	-25.00	16.10	Horizontal
17989.1996	-41.88	-25.00	16.88	Horizontal



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**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7380	-66.44	-25.00	41.44	Vertical
660.7255	-65.25	-25.00	40.25	Vertical
1685.3371	-45.46	-25.00	20.46	Vertical
7386.7755	-55.93	-25.00	30.93	Vertical
14455.6582	-46.27	-25.00	21.27	Vertical
17908.7964	-39.37	-25.00	14.37	Vertical
42.4166	-66.00	-25.00	41.00	Horizontal
892.0821	-62.12	-25.00	37.12	Horizontal
2977.5955	-39.65	-25.00	14.65	Horizontal
7425.1770	-56.18	-25.00	31.18	Horizontal
16397.9359	-42.08	-25.00	17.08	Horizontal
17983.7994	-43.31	-25.00	18.31	Horizontal

**7.1. Test Mode =LTE/TM1 (Second Ant)**

**7.1.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.1931	-65.95	-25.00	40.95	Vertical
603.5412	-65.01	-25.00	40.01	Vertical
1753.7508	-43.77	-25.00	18.77	Vertical
7342.9737	-55.45	-25.00	30.45	Vertical
14729.8692	-46.00	-25.00	21.00	Vertical
17996.9999	-37.53	-25.00	12.53	Vertical
42.2711	-65.65	-25.00	40.65	Horizontal
249.4250	-69.50	-25.00	44.50	Horizontal
2940.7882	-39.89	-25.00	14.89	Horizontal
7363.9746	-56.12	-25.00	31.12	Horizontal
16389.5356	-42.48	-25.00	17.48	Horizontal
17995.1998	-43.27	-25.00	18.27	Horizontal

**7.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.7751	-65.32	-25.00	40.32	Vertical
786.7348	-62.35	-25.00	37.35	Vertical
2941.5883	-39.28	-25.00	14.28	Vertical
7393.9758	-55.12	-25.00	30.12	Vertical



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14688.4675	-45.18	-25.00	20.18	Vertical
17992.7997	-36.73	-25.00	11.73	Vertical
43.3867	-64.67	-25.00	39.67	Horizontal
232.3036	-69.67	-25.00	44.67	Horizontal
2700.3401	-37.31	-25.00	12.31	Horizontal
9305.0522	-51.06	-25.00	26.06	Horizontal
16398.5359	-40.93	-25.00	15.93	Horizontal
17999.4000	-41.71	-25.00	16.71	Horizontal

**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
114.1517	-65.72	-25.00	40.72	Vertical
817.8249	-62.73	-25.00	37.73	Vertical
2243.0486	-40.63	-25.00	15.63	Vertical
7350.1740	-54.41	-25.00	29.41	Vertical
14716.6687	-44.76	-25.00	19.76	Vertical
17998.8000	-35.91	-25.00	10.91	Vertical
40.0400	-64.82	-25.00	39.82	Horizontal
228.3264	-69.71	-25.00	44.71	Horizontal
1799.3599	-44.26	-25.00	19.26	Horizontal
7448.5779	-55.15	-25.00	30.15	Horizontal
16396.1358	-39.78	-25.00	14.78	Horizontal
17997.5999	-40.44	-25.00	15.44	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
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	20.70	0.008247	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	20.80	0.008287	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-12.00	-0.004781	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	2.70	0.001065	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-20.30	-0.008008	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	22.80	0.008994	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-20.20	-0.007891	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	1.50	0.000586	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	14.10	0.005508	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-14.00	-0.005578	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	6.80	0.002709	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-16.40	-0.006534	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-26.00	-0.010256	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-16.00	-0.006312	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-27.60	-0.010888	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-30.30	-0.011836	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-22.10	-0.008633	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-20.00	-0.007813	±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
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-7.60	-0.003028	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	13.60	0.005418	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	2.30	0.000916	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-8.70	-0.003466	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-19.30	-0.007689	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	7.30	0.002908	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-10.60	-0.004223	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-13.10	-0.005219	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	21.60	0.008521	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	13.40	0.005286	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	18.60	0.007337	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	20.20	0.007968	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-10.20	-0.004024	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-16.50	-0.006509	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-11.90	-0.004694	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-10.10	-0.003984	±2.5	PASS



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Band7	20MHz	QPSK	21350	100RB#0	NV	-30	8.90	0.003477	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-3.90	-0.001523	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-18.50	-0.007227	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-19.30	-0.007539	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-3.90	-0.001523	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-18.70	-0.007305	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	6.70	0.002669	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	13.40	0.005234	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-15.20	-0.006056	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	6.70	0.002669	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-23.20	-0.009243	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-10.60	-0.004223	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	12.40	0.004892	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-4.60	-0.001833	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	10.30	0.004104	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-9.40	-0.003745	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	4.80	0.001893	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	8.10	0.003195	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-19.30	-0.007613	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-11.40	-0.004497	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	12.40	0.004892	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	18.30	0.007219	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	5.40	0.002130	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-6.60	-0.002604	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	4.70	0.001836	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-12.20	-0.004766	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	0.70	0.000273	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-18.50	-0.007227	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	1.80	0.000703	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	9.60	0.003750	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	3.90	0.001523	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-19.70	-0.007695	±2.5	PASS



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