



# 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	22.91	21.41	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.10	21.60	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.97	21.47	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.06	20.56	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.12	20.62	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.16	20.66	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.06	20.56	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.93	21.43	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.07	21.57	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.92	21.42	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.05	20.55	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.14	20.64	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.06	20.56	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.05	20.55	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.92	21.42	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.01	20.51	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.01	20.51	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.01	20.51	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.01	20.51	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.01	20.51	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.01	20.51	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.24	20.74	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.36	20.86	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.26	20.76	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.11	19.61	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.15	19.65	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.15	19.65	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.14	19.64	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.20	20.70	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.30	20.80	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.21	20.71	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.07	19.57	33.00	PASS



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Band7	5MHz	16QAM	21100	12RB#6	21.16	19.66	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.07	19.57	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.13	19.63	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.18	20.68	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.33	20.83	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.21	20.71	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.11	19.61	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.18	19.68	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.13	19.63	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.14	19.64	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.94	21.44	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.16	21.66	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.04	21.54	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.02	20.52	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.16	20.66	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.17	20.67	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.11	20.61	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.94	21.44	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.12	21.62	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.03	21.53	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.11	20.61	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.12	20.62	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.15	20.65	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.14	20.64	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.97	21.47	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.01	20.51	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.01	20.51	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.01	20.51	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.01	20.51	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.01	20.51	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.01	20.51	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.20	20.70	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.43	20.93	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.37	20.87	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.14	19.64	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.18	19.68	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.24	19.74	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.22	19.72	33.00	PASS



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Band7	10MHz	16QAM	21100	1RB#0	22.22	20.72	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.44	20.94	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.30	20.80	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.13	19.63	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.13	19.63	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.15	19.65	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.16	19.66	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.25	20.75	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.39	20.89	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.32	20.82	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.11	19.61	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.15	19.65	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.22	19.72	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.14	19.64	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.96	21.46	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.10	21.60	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.02	21.52	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.04	20.54	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.17	20.67	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.21	20.71	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.14	20.64	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.92	21.42	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.06	21.56	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.05	21.55	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.10	20.60	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.12	20.62	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.20	20.70	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.16	20.66	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.98	21.48	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.01	20.51	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.01	20.51	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.01	20.51	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.01	20.51	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.01	20.51	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.01	20.51	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.27	20.77	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.38	20.88	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.35	20.85	33.00	PASS



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Band7	15MHz	16QAM	20825	36RB#0	21.10	19.60	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.18	19.68	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.20	19.70	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.19	19.69	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.18	20.68	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.31	20.81	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.34	20.84	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.12	19.62	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.12	19.62	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.14	19.64	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.17	19.67	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.19	20.69	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.30	20.80	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.35	20.85	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.09	19.59	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.17	19.67	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.18	19.68	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.14	19.64	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.87	21.37	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.16	21.66	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.94	21.44	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.03	20.53	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.14	20.64	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.19	20.69	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.09	20.59	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.86	21.36	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.12	21.62	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.99	21.49	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.16	20.66	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.14	20.64	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.13	20.63	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.13	20.63	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.91	21.41	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.01	20.51	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.01	20.51	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.01	20.51	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.01	20.51	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.01	20.51	33.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	22.01	20.51	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.11	20.61	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.46	20.96	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.22	20.72	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.08	19.58	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.14	19.64	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.23	19.73	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.14	19.64	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.15	20.65	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.37	20.87	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.30	20.80	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.15	19.65	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.18	19.68	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.16	19.66	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.14	19.64	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.19	20.69	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.37	20.87	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.20	20.70	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.07	19.57	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.18	19.68	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.18	19.68	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.11	19.61	33.00	PASS

Remark:

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

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

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



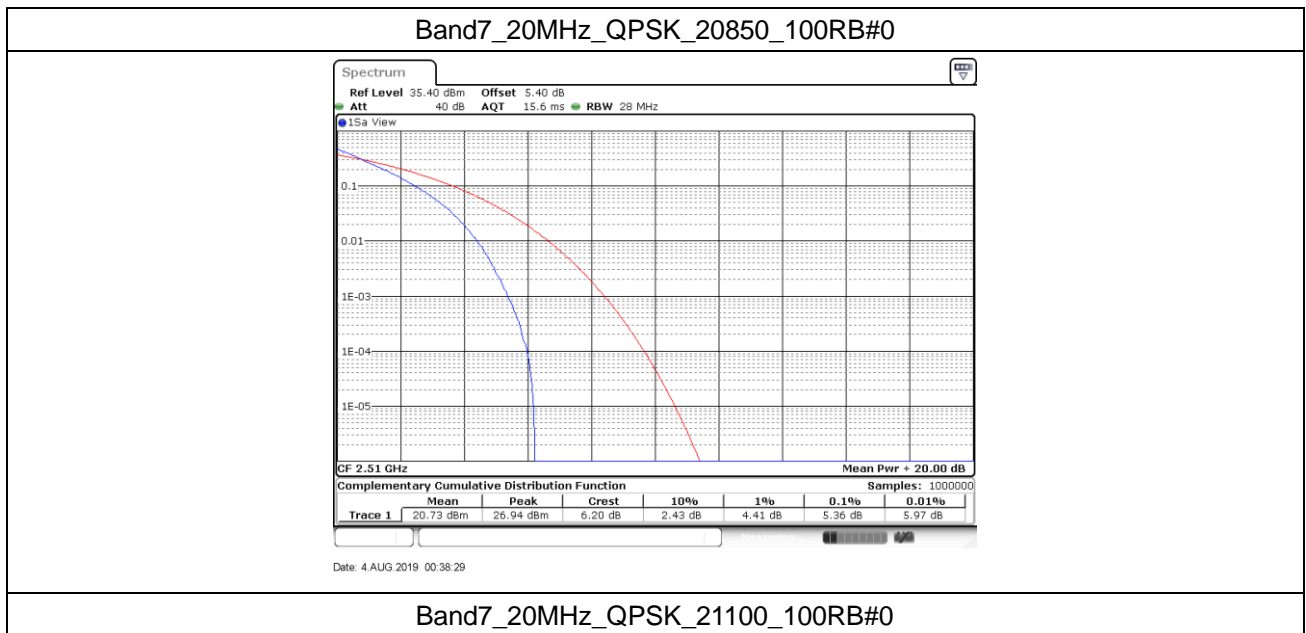
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.36	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.45	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.30	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.17	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.23	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.12	13	PASS

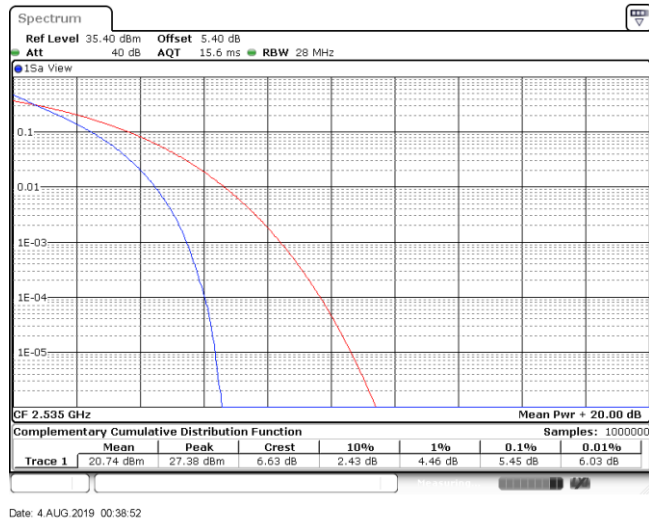
### 2.2. Test Plots



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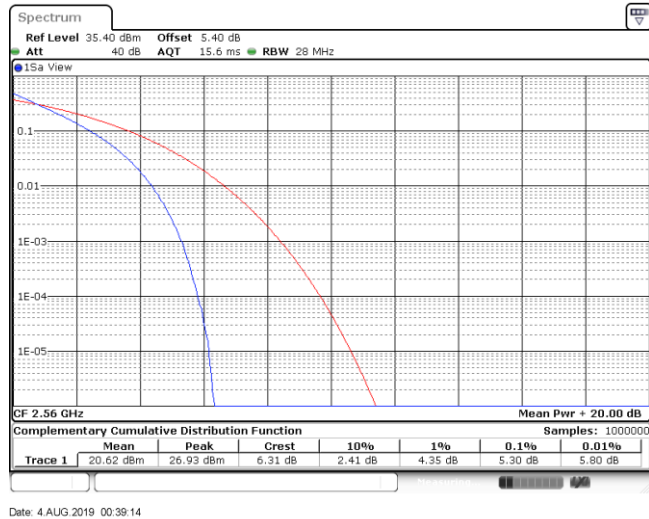
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Date: 4.AUG.2019 00:38:52

**Band7\_20MHz\_QPSK\_21350\_100RB#0**

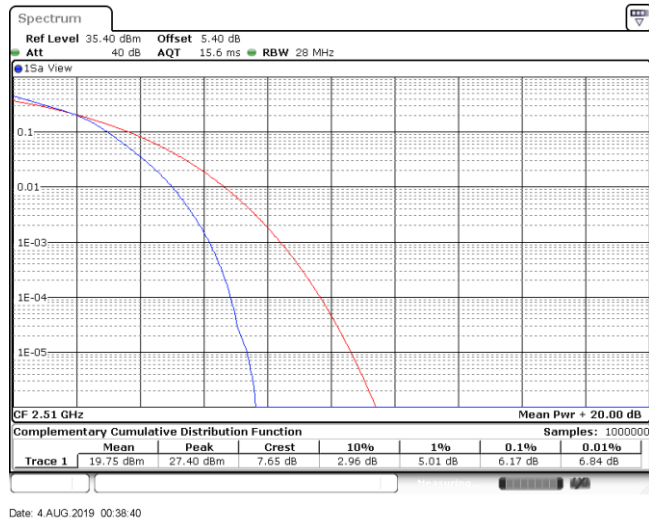


Date: 4.AUG.2019 00:38:14

**Band7\_20MHz\_16QAM\_20850\_100RB#0**

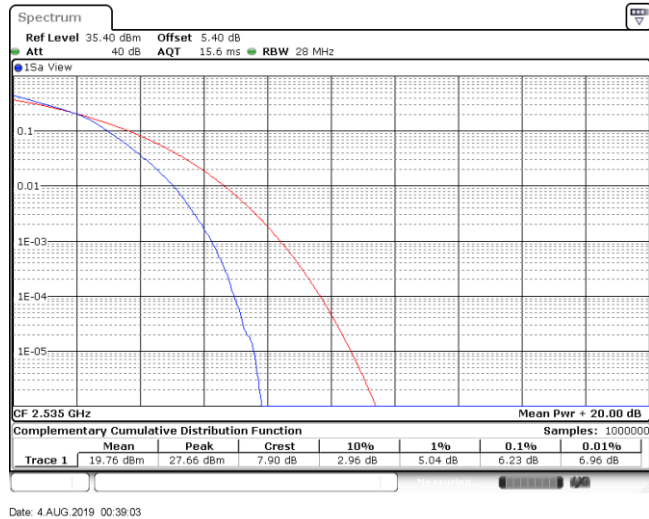


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Date: 4.AUG.2019 00:38:40

**Band7\_20MHz\_16QAM\_21100\_100RB#0**

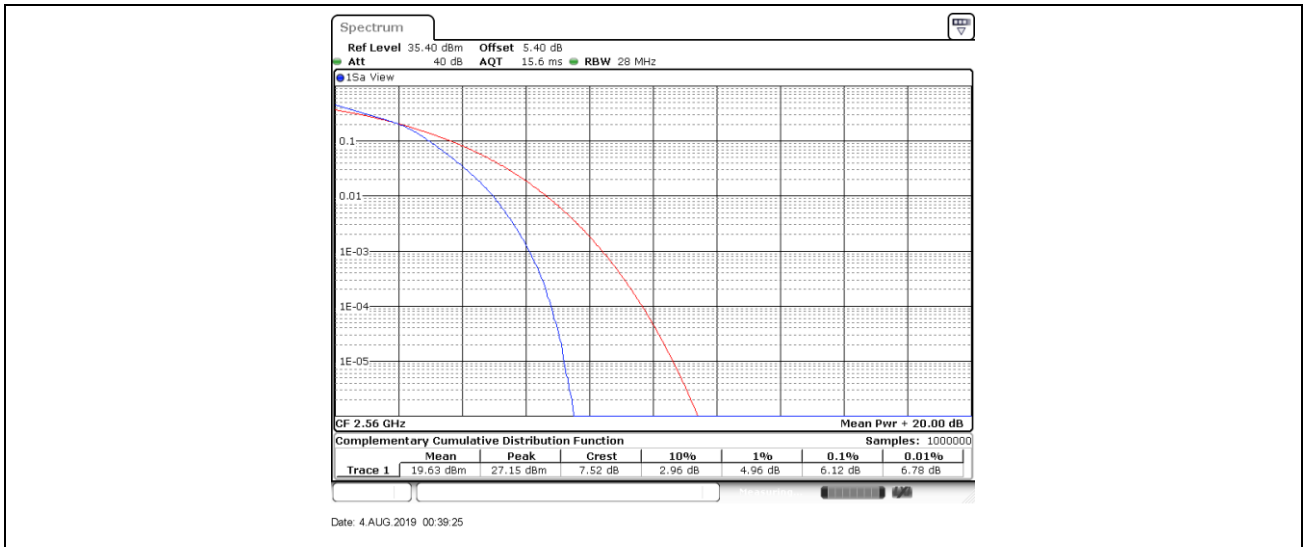


Date: 4.AUG.2019 00:39:03

**Band7\_20MHz\_16QAM\_21350\_100RB#0**



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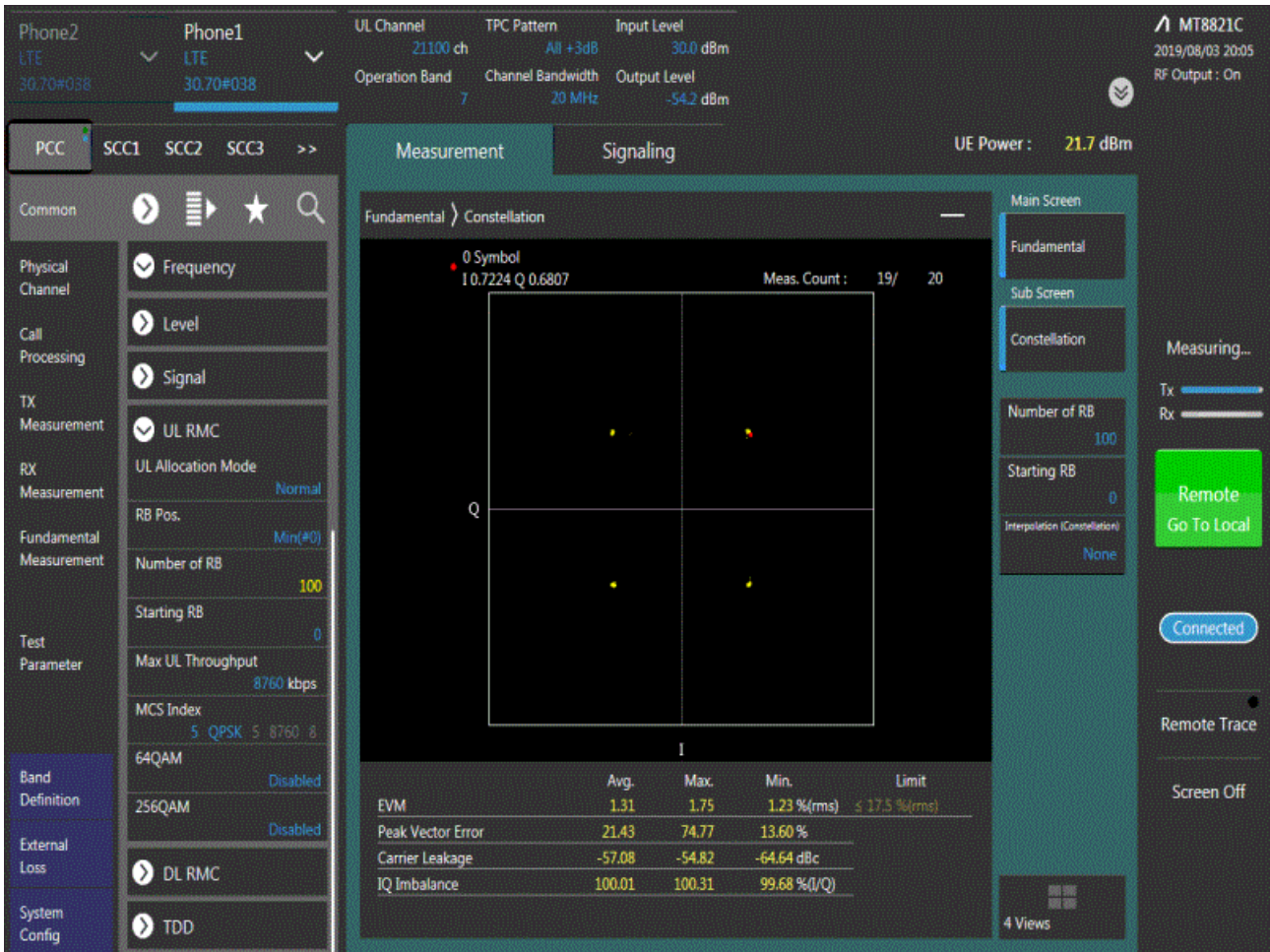


### 3. Modulation Characteristics

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

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

#### 3.2.1. Test Channel = MCH



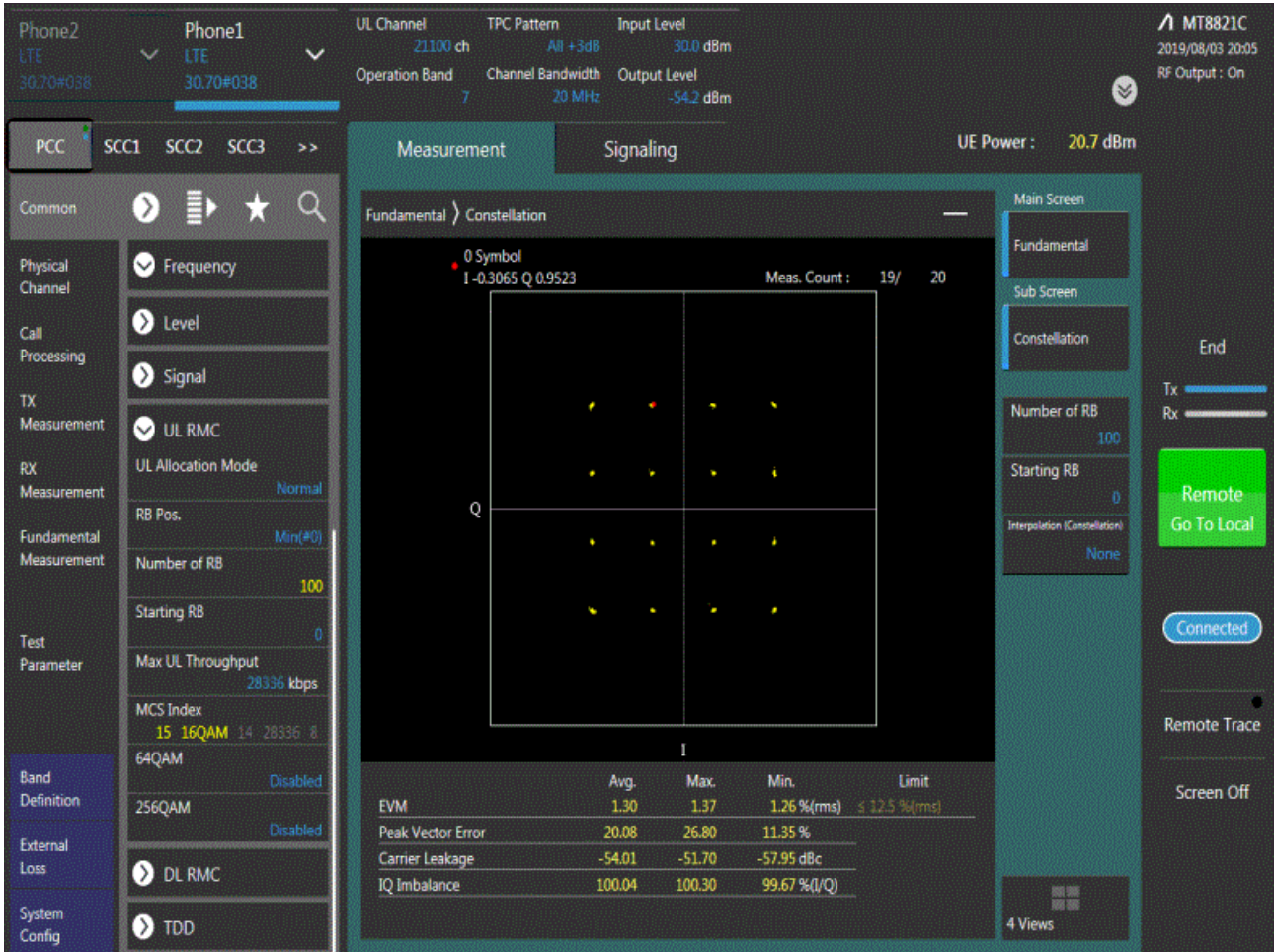
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### 3.3. Test Mode = LTE /TM2 20MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

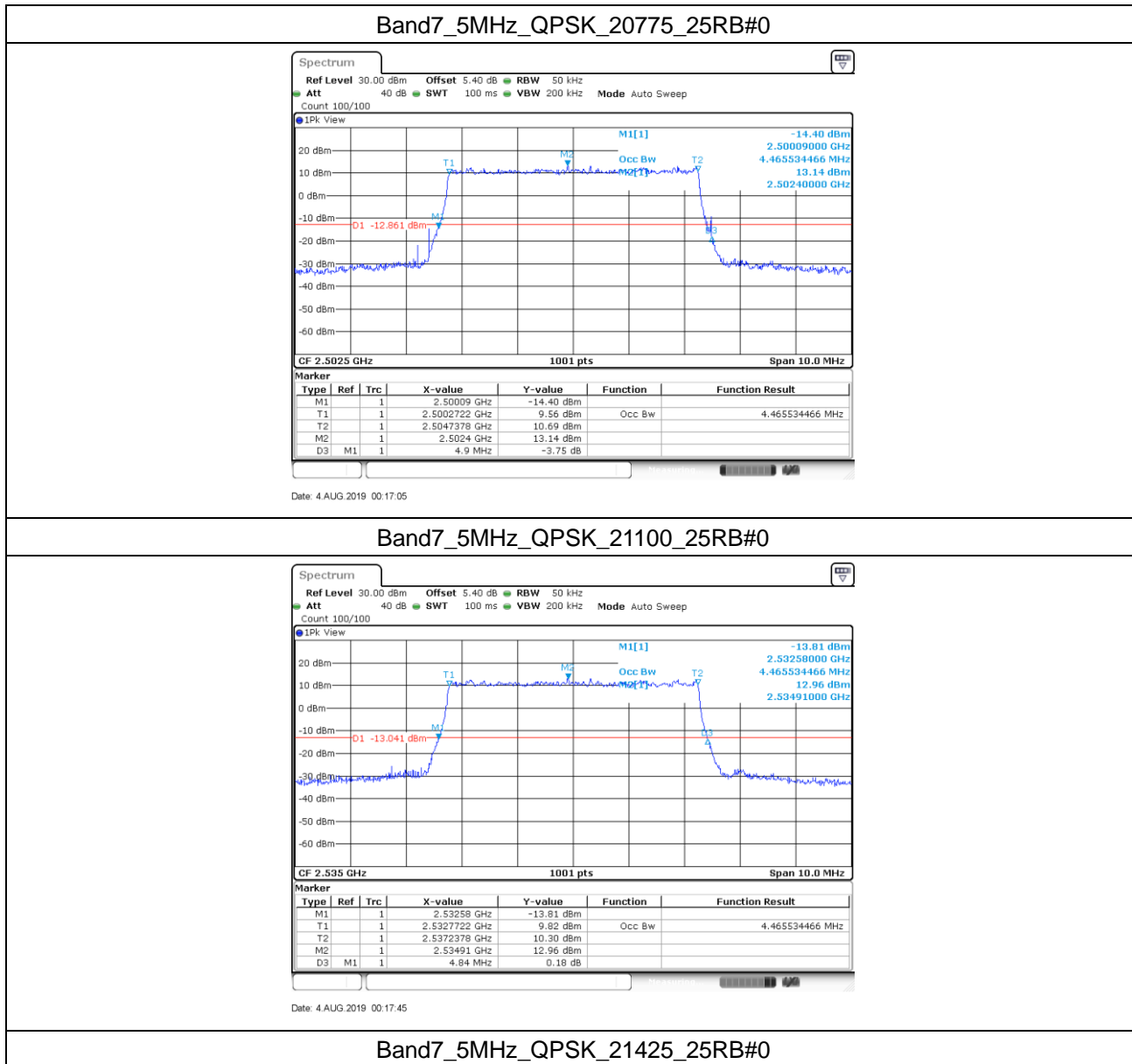
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.900	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.840	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.466	4.840	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.850	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.860	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	5.190	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.580	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.680	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.580	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.640	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.640	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.640	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.457	14.670	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.670	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.427	14.700	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.400	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.320	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.280	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.862	19.200	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.320	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.320	PASS



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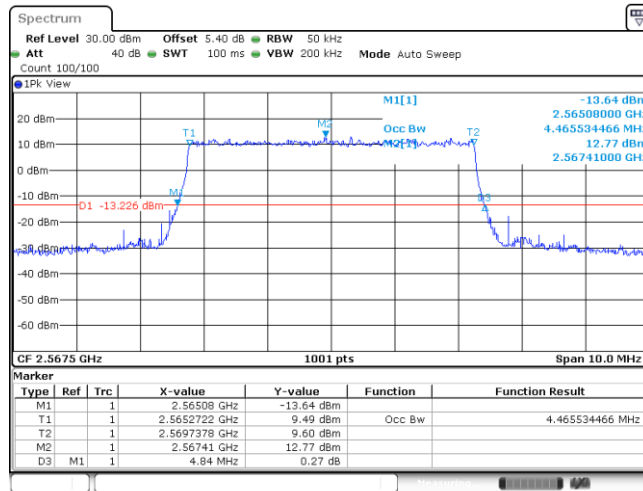
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## 4.2. Test Plots



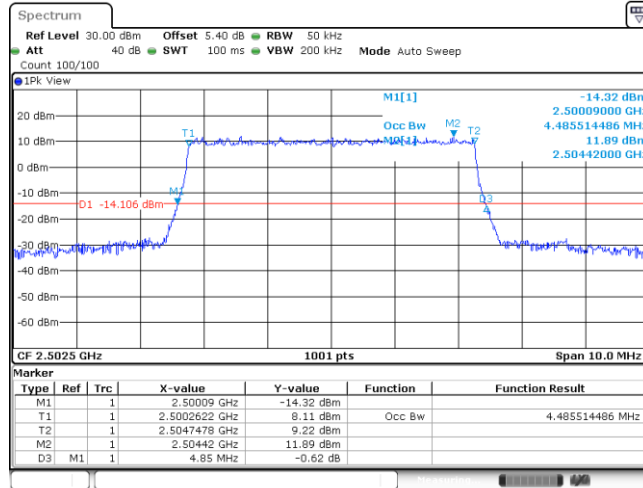
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Date: 4 AUG.2019 00:18:24

**Band7\_5MHz\_16QAM\_20775\_25RB#0**



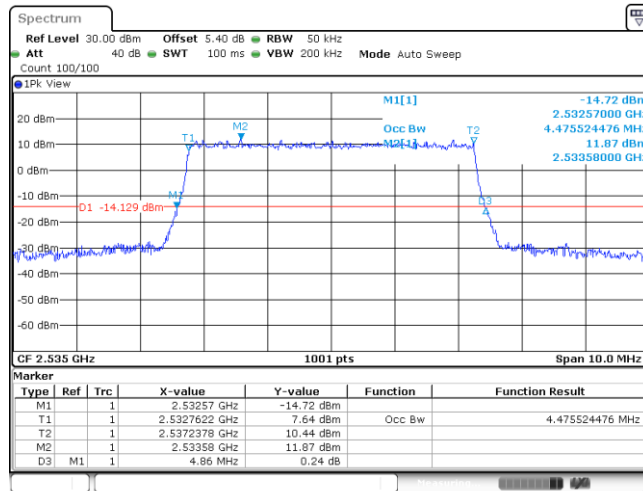
Date: 4 AUG.2019 00:17:24

**Band7\_5MHz\_16QAM\_21100\_25RB#0**

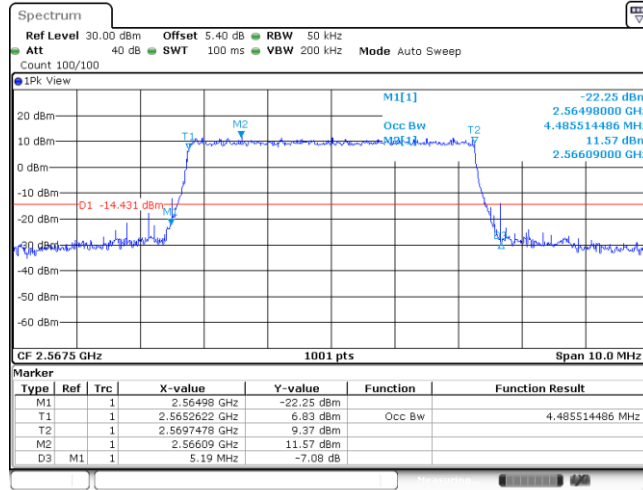


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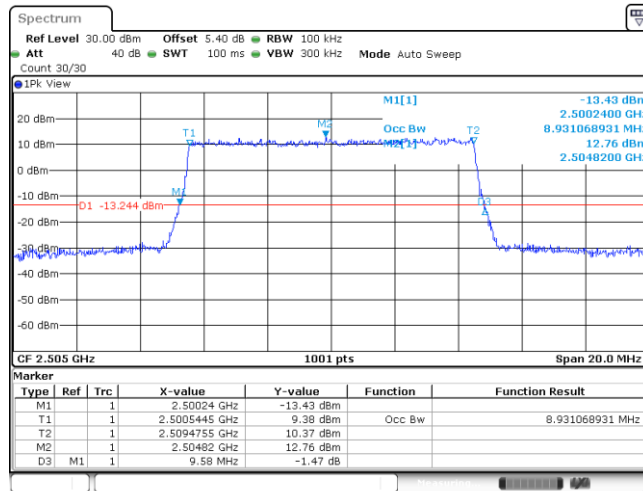
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**Band7\_10MHz\_QPSK\_20800\_50RB#0**

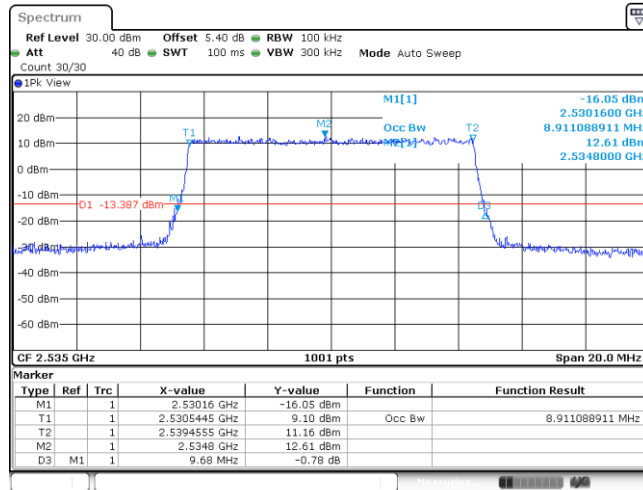


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Date: 4 AUG.2019 00:19:03

**Band7\_10MHz\_QPSK\_21100\_50RB#0**

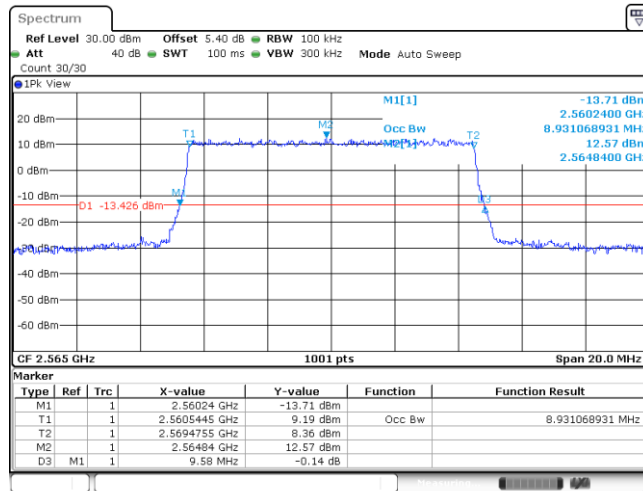


Date: 4 AUG.2019 00:19:28

**Band7\_10MHz\_QPSK\_21400\_50RB#0**

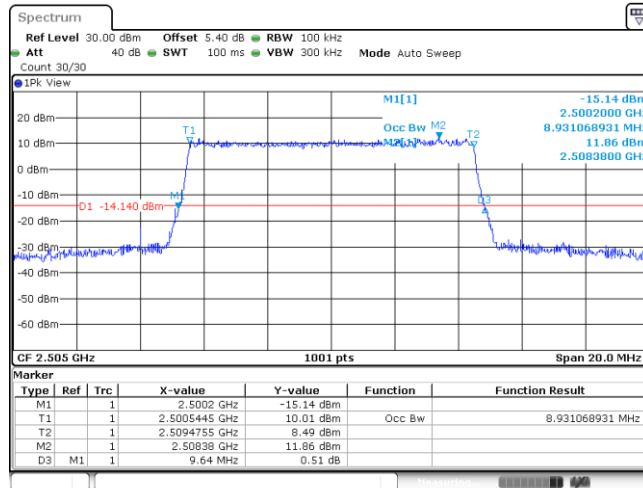


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Date: 4 AUG.2019 00:19:54

**Band7\_10MHz\_16QAM\_20800\_50RB#**

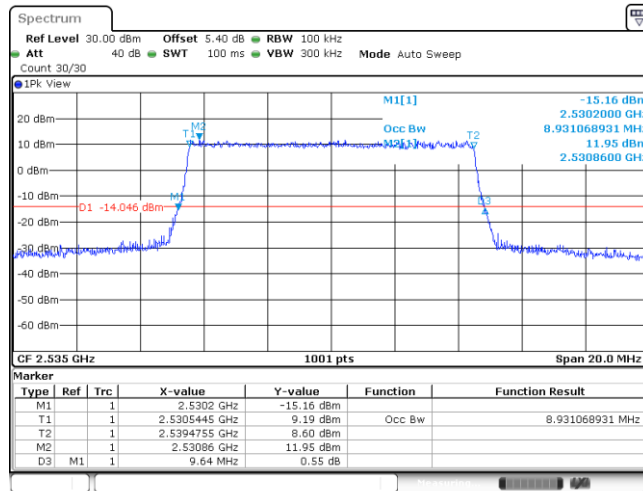


Date: 4 AUG.2019 00:19:15

**Band7\_10MHz\_16QAM\_21100\_50RB#**

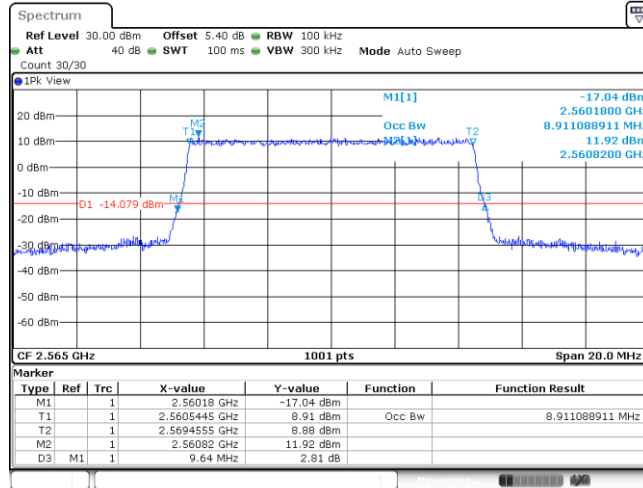


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Date: 4 AUG.2019 00:19:41

Band7\_10MHz\_16QAM\_21400\_50RB#0



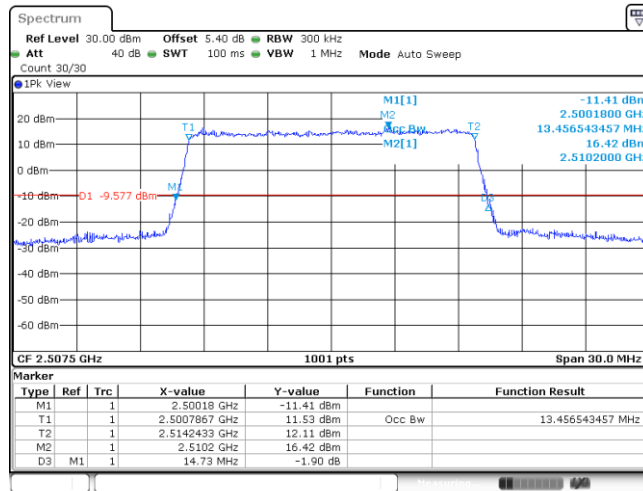
Date: 4 AUG.2019 00:20:07

Band7\_15MHz\_QPSK\_20825\_75RB#0



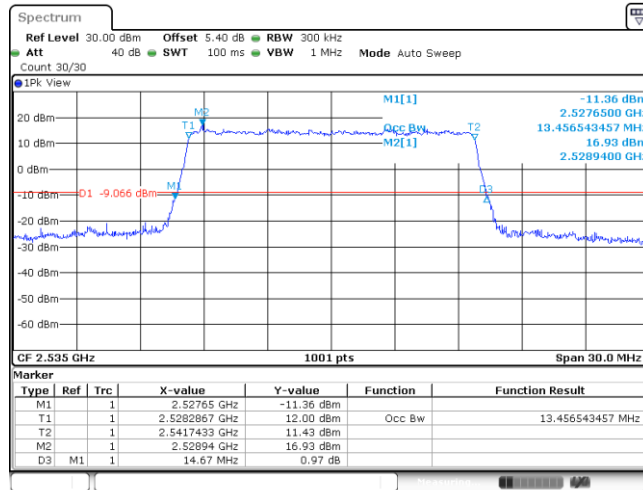
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Date: 4 AUG.2019 00:20:25

**Band7\_15MHz\_QPSK\_21100\_75RB#0**

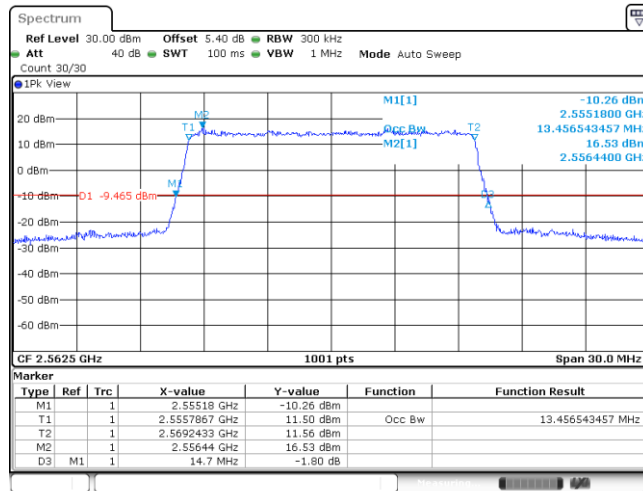


Date: 4 AUG.2019 00:20:51

**Band7\_15MHz\_QPSK\_21375\_75RB#0**

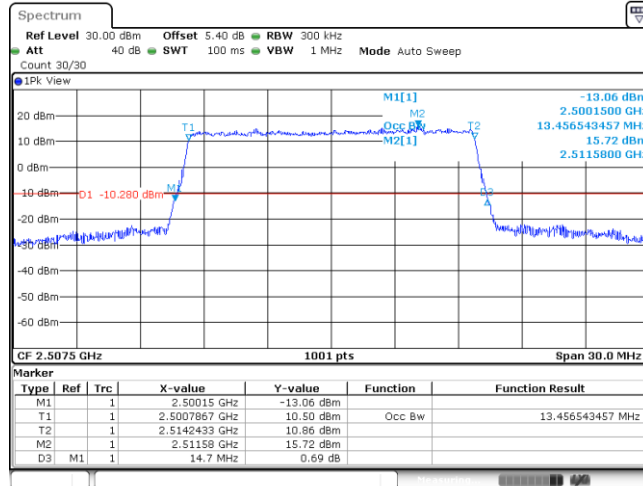


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Date: 4 AUG.2019 00:21:17

**Band7\_15MHz\_16QAM\_20825\_75RB#0**

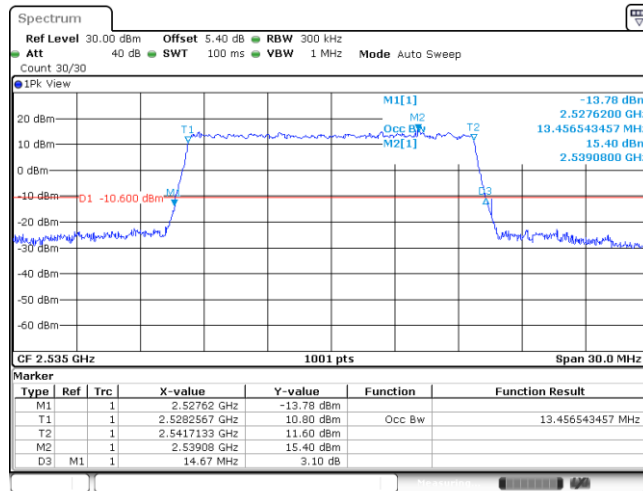


Date: 4 AUG.2019 00:20:38

**Band7\_15MHz\_16QAM\_21100\_75RB#0**

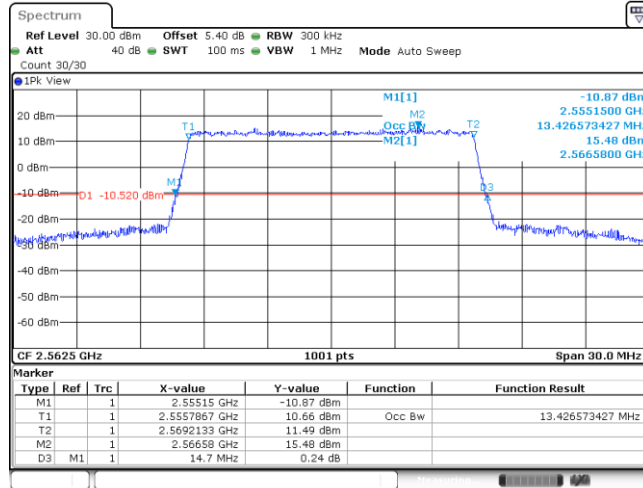


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Date: 4 AUG.2019 00:21:04

**Band7\_15MHz\_16QAM\_21375\_75RB#**

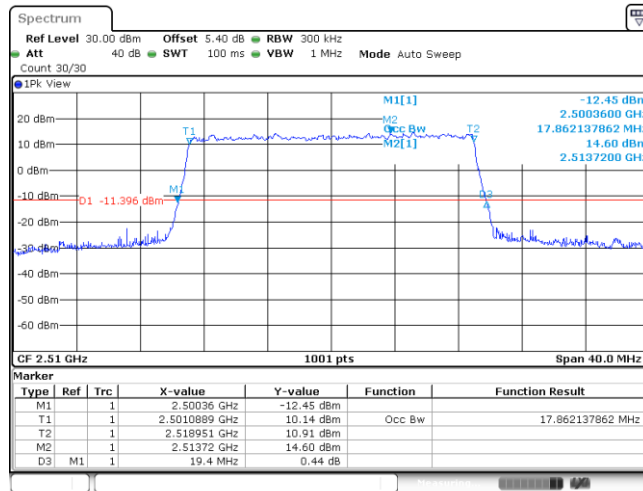


Date: 4 AUG.2019 00:21:30

**Band7\_20MHz\_QPSK\_20850\_100RB#**

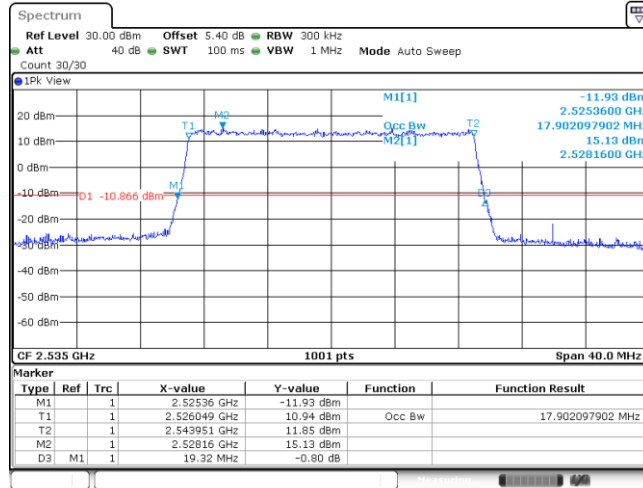


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Date: 4 AUG.2019 00:21:48

**Band7\_20MHz\_QPSK\_21100\_100RB#0**



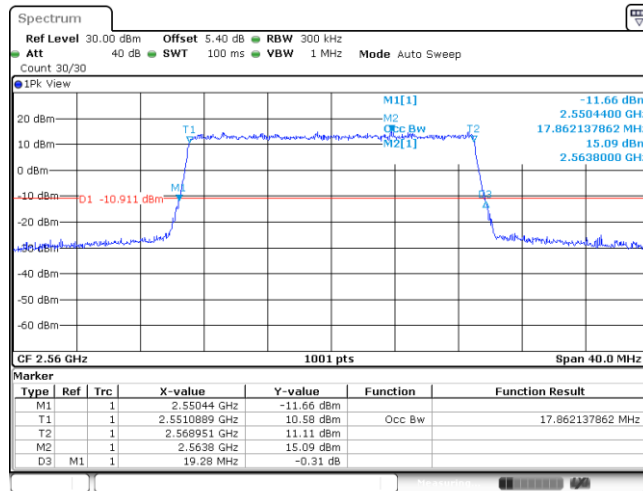
Date: 4 AUG.2019 00:22:14

**Band7\_20MHz\_QPSK\_21350\_100RB#0**



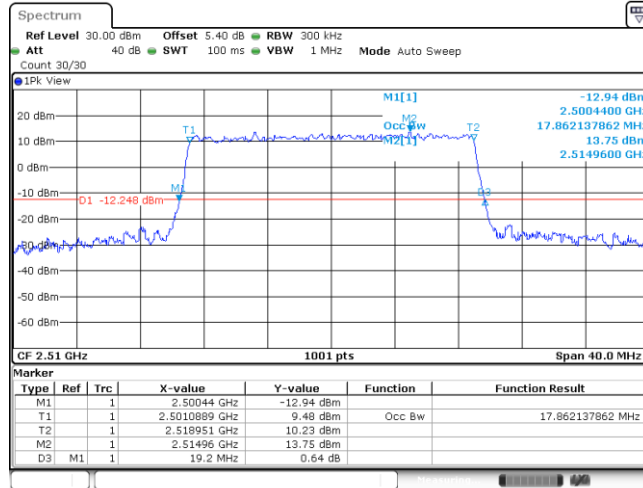
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Date: 4 AUG.2019 00:22:40

**Band7\_20MHz\_16QAM\_20850\_100RB#0**

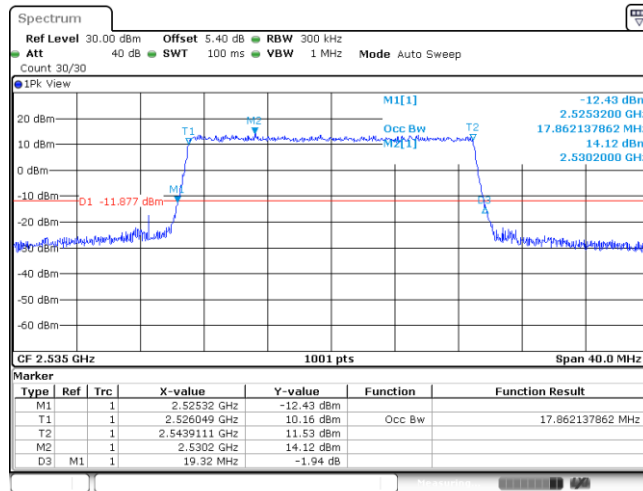


Date: 4 AUG.2019 00:22:01

**Band7\_20MHz\_16QAM\_21100\_100RB#0**

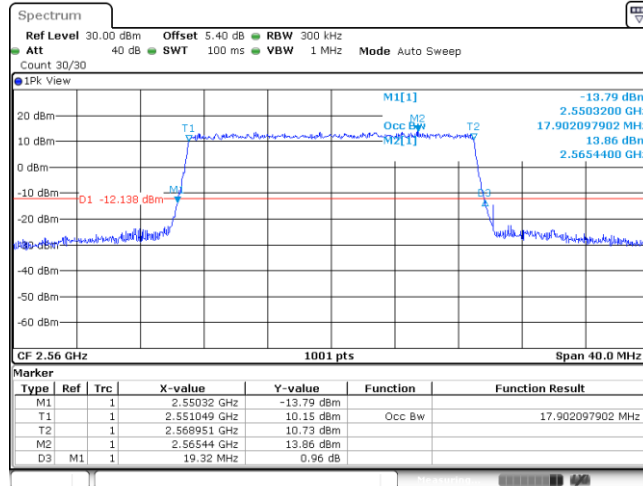


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Date: 4 AUG 2019 00:22:27

**Band7\_20MHz\_16QAM\_21350\_100RB#0**



Date: 4 AUG 2019 00:22:53

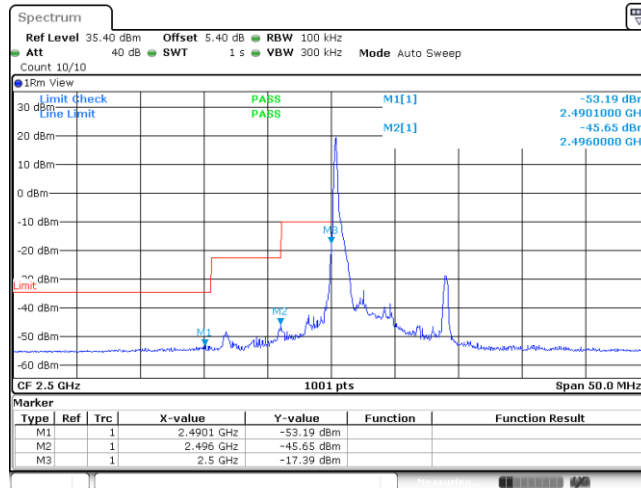


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## 5. Band Edge Compliance

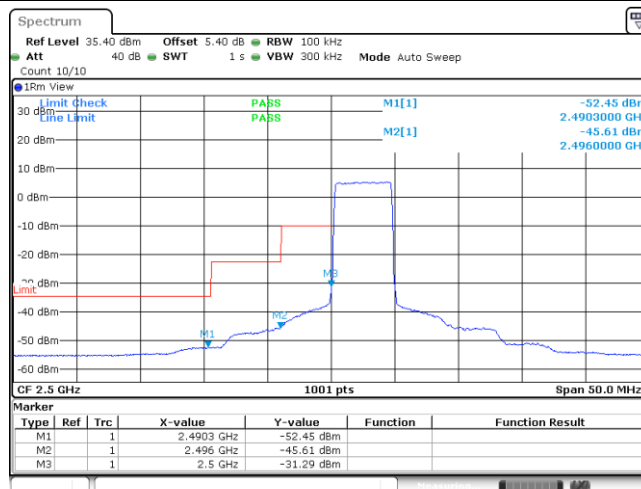
### 5.1. Test Plots

Band7\_5MHz\_QPSK\_20775\_1RB#0



Date: 4.AUG.2019 00:23:19

Band7\_5MHz\_QPSK\_20775\_25RB#0

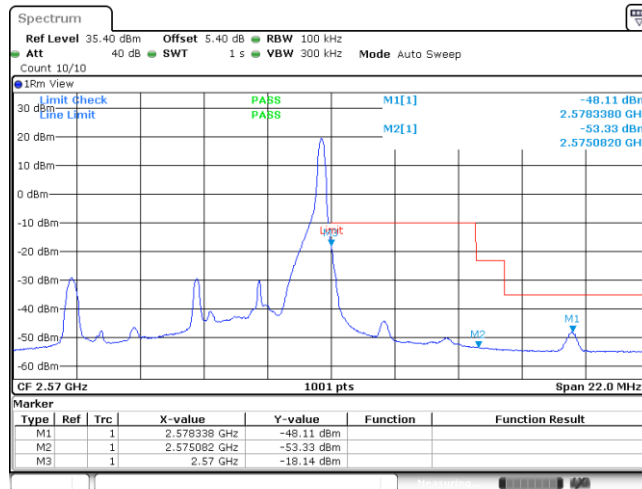


Date: 4.AUG.2019 00:24:49

Band7\_5MHz\_QPSK\_21425\_1RB#24

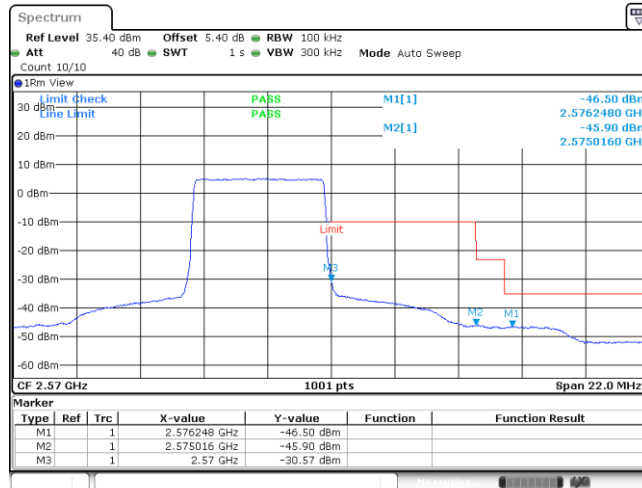


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Date: 4 AUG 2019 00:24:04

**Band7\_5MHz\_QPSK\_21425\_25RB#**



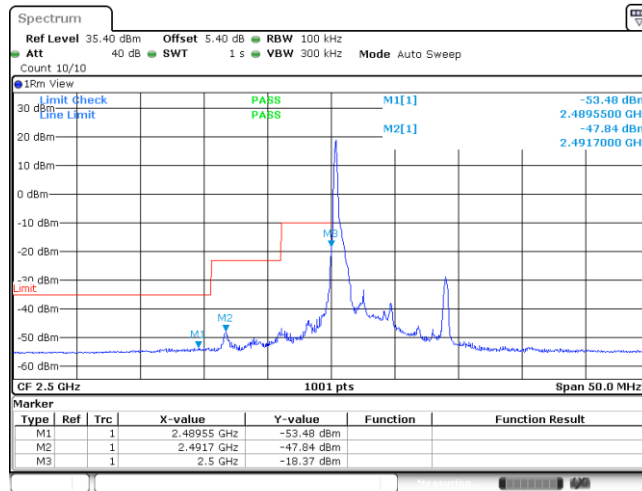
Date: 4 AUG 2019 00:25:30

**Band7\_5MHz\_16QAM\_20775\_1RB#**



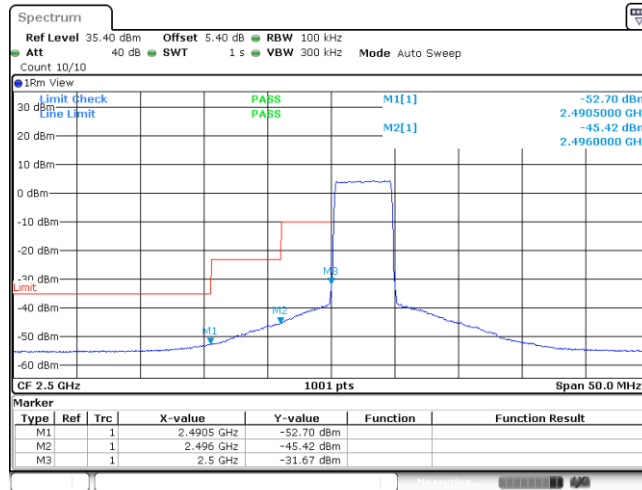
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Date: 4 AUG 2019 00:23:39

**Band7\_5MHz\_16QAM\_20775\_25RB#0**



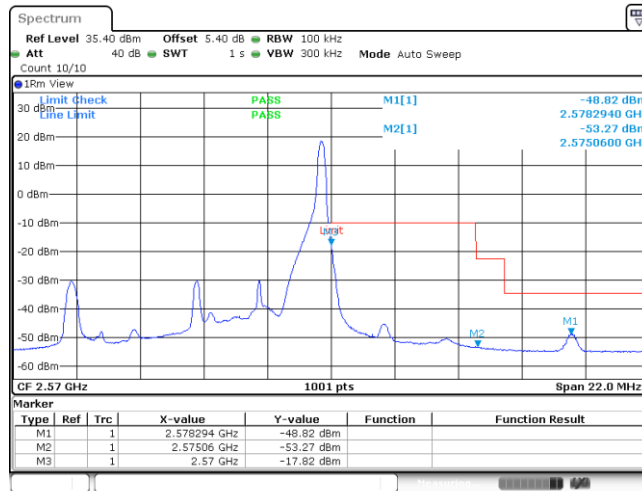
Date: 4 AUG 2019 00:25:09

**Band7\_5MHz\_16QAM\_21425\_1RB#24**



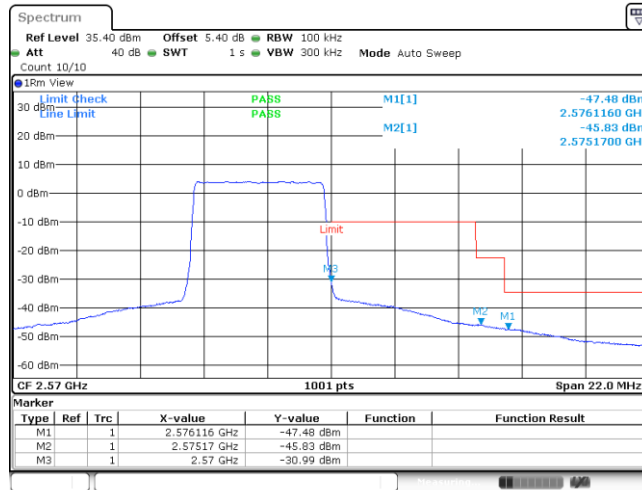
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Date: 4 AUG 2019 00:24:25

**Band7\_5MHz\_16QAM\_21425\_25RB#0**

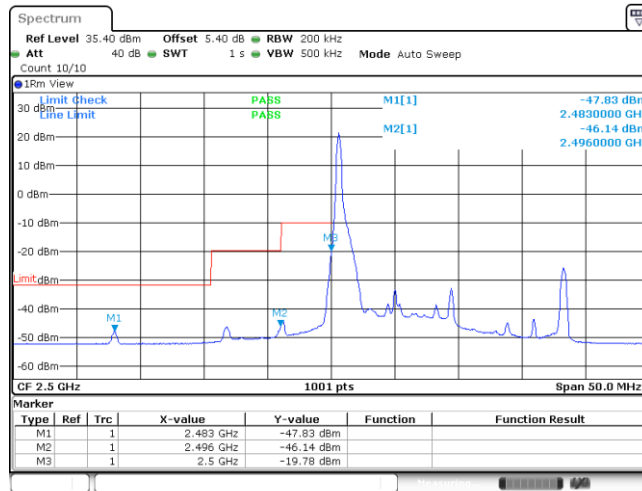


Date: 4 AUG 2019 00:25:51

**Band7\_10MHz\_QPSK\_20800\_1RB#0**

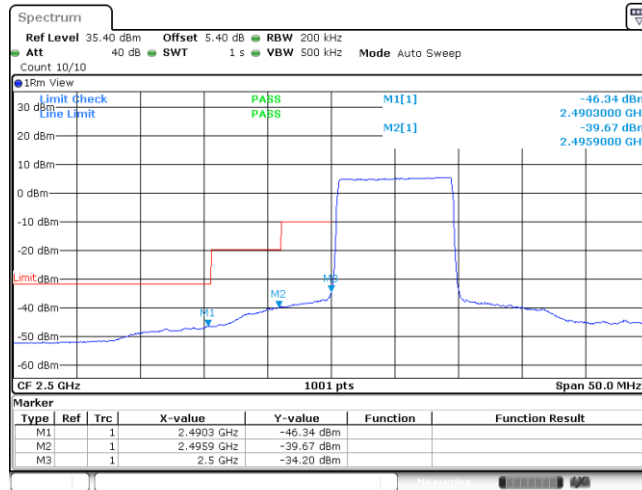


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Date: 4 AUG 2019 00:26:17

**Band7\_10MHz\_QPSK\_20800\_50RB#0**

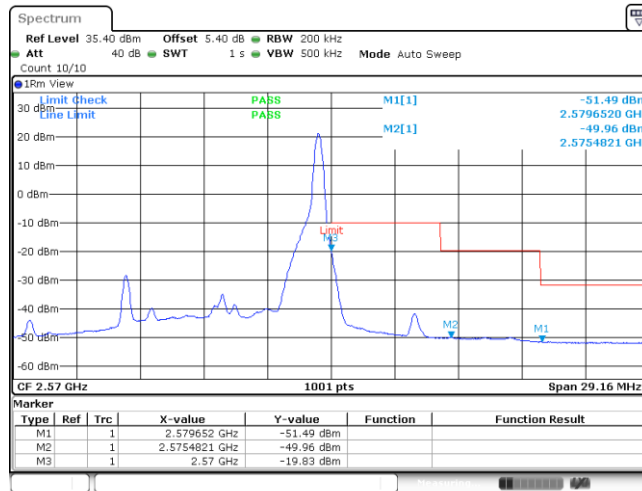


Date: 4 AUG 2019 00:27:46

**Band7\_10MHz\_QPSK\_21400\_1RB#49**

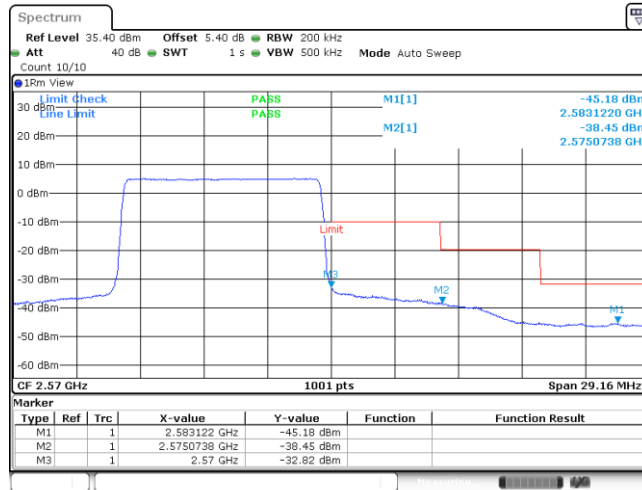


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Date: 4 AUG 2019 00:27:02

**Band7\_10MHz\_QPSK\_21400\_50RB#0**



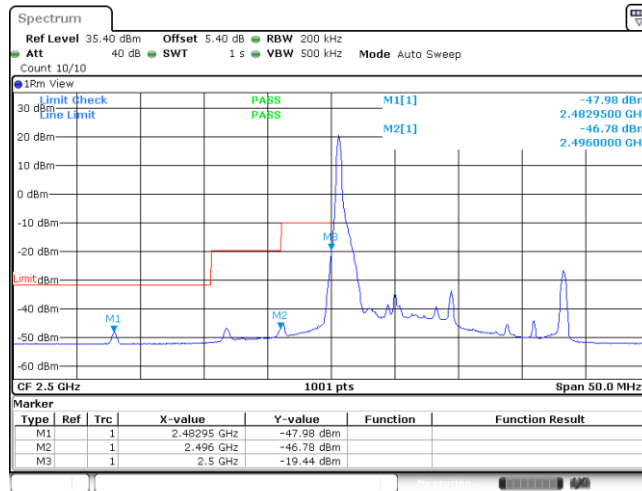
Date: 4 AUG 2019 00:28:27

**Band7\_10MHz\_16QAM\_20800\_1RB#0**



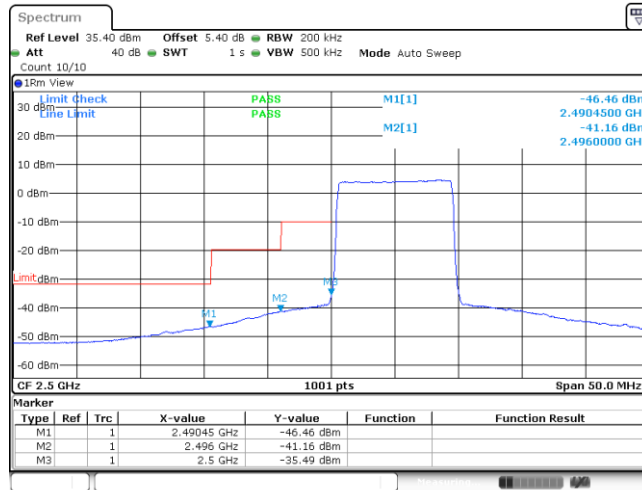
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Date: 4 AUG 2019 00:28:37

**Band7\_10MHz\_16QAM\_20800\_50RB#0**

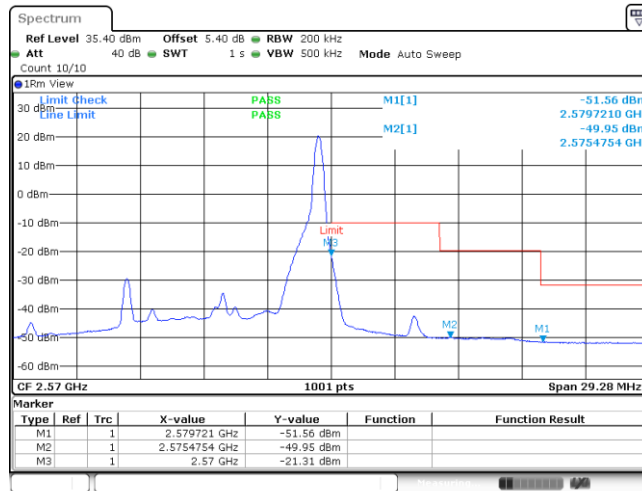


Date: 4 AUG 2019 00:28:06

**Band7\_10MHz\_16QAM\_21400\_1RB#49**

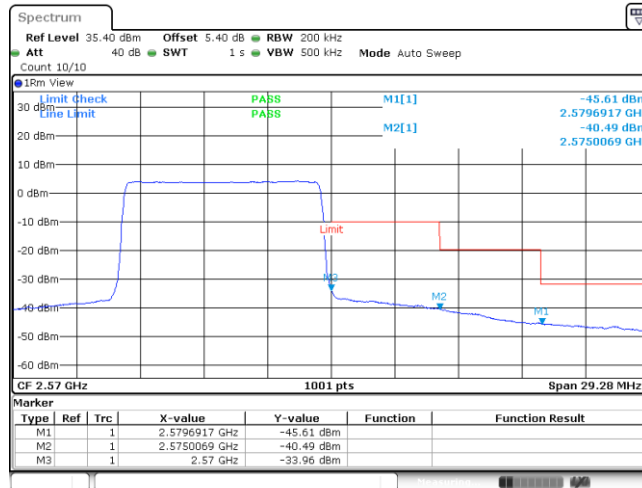


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Date: 4.AUG.2019 00:27:22

**Band7\_10MHz\_16QAM\_21400\_50RB#0**

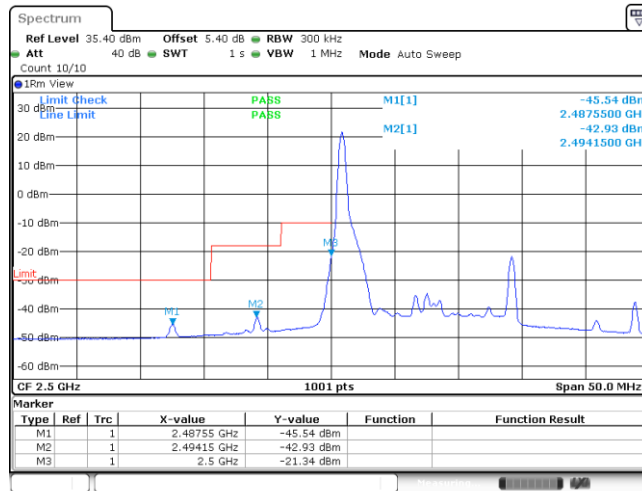


Date: 4.AUG.2019 00:28:47

**Band7\_15MHz\_QPSK\_20825\_1RB#0**

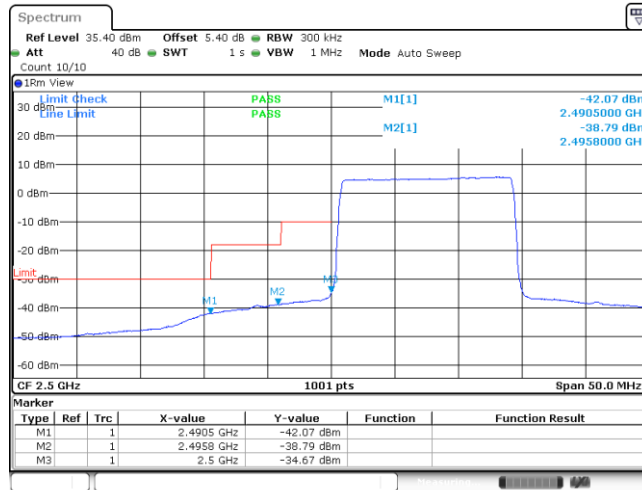


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Date: 4 AUG 2019 00:29:13

**Band7\_15MHz\_QPSK\_20825\_75RB#0**

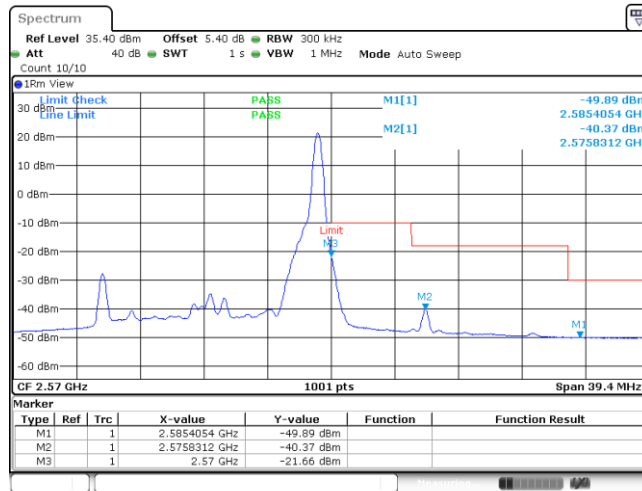


Date: 4 AUG 2019 00:30:42

**Band7\_15MHz\_QPSK\_21375\_1RB#74**

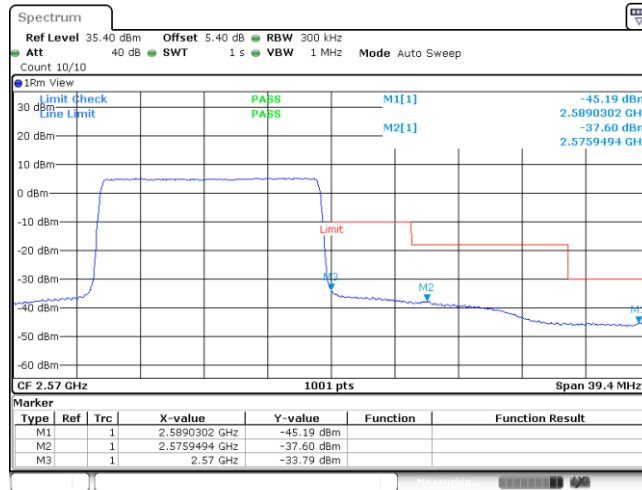


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Date: 4 AUG 2019 00:29:57

**Band7\_15MHz\_QPSK\_21375\_75RB#0**



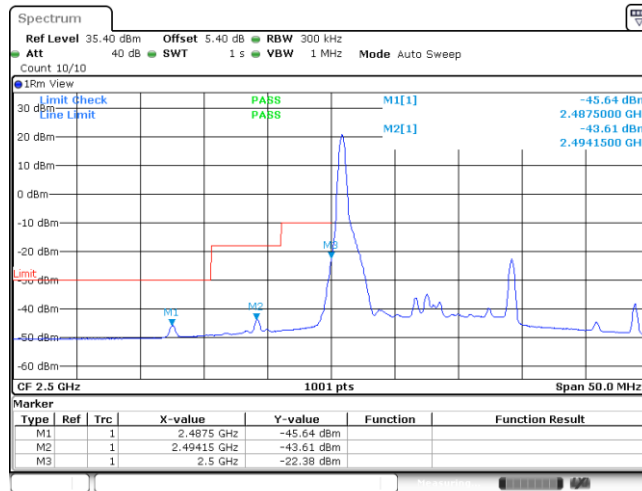
Date: 4 AUG 2019 00:31:23

**Band7\_15MHz\_16QAM\_20825\_1RB#0**

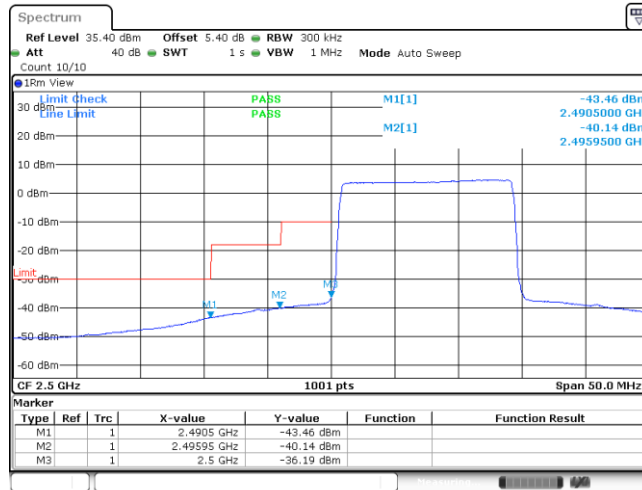


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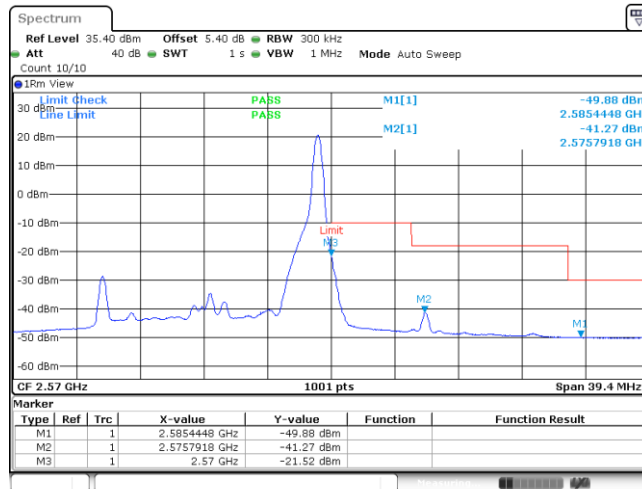
**Band7\_15MHz\_16QAM\_20825\_75RB#0**



**Band7\_15MHz\_16QAM\_21375\_1RB#74**

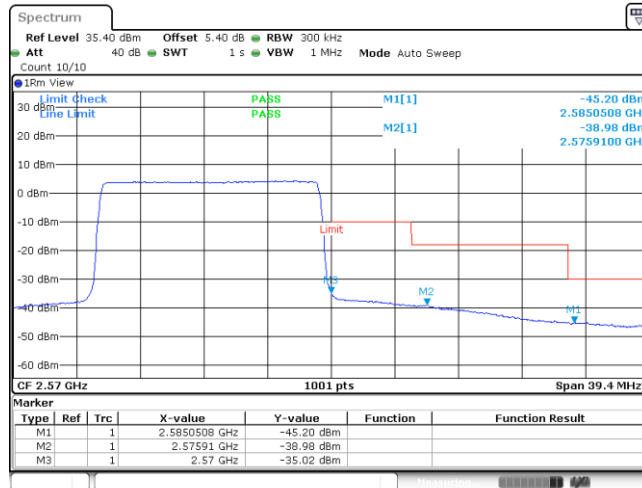


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Date: 4 AUG 2019 00:30:18

**Band7\_15MHz\_16QAM\_21375\_75RB#0**

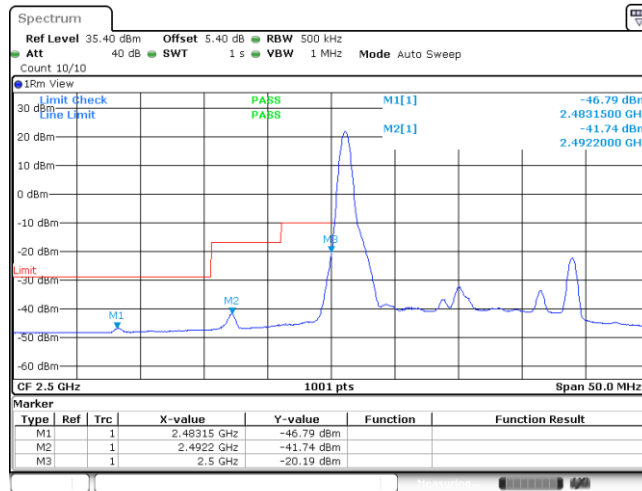


Date: 4 AUG 2019 00:31:43

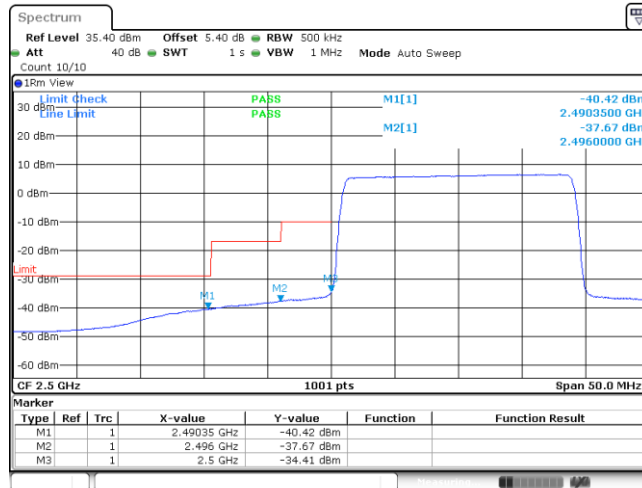
**Band7\_20MHz\_QPSK\_20850\_1RB#0**



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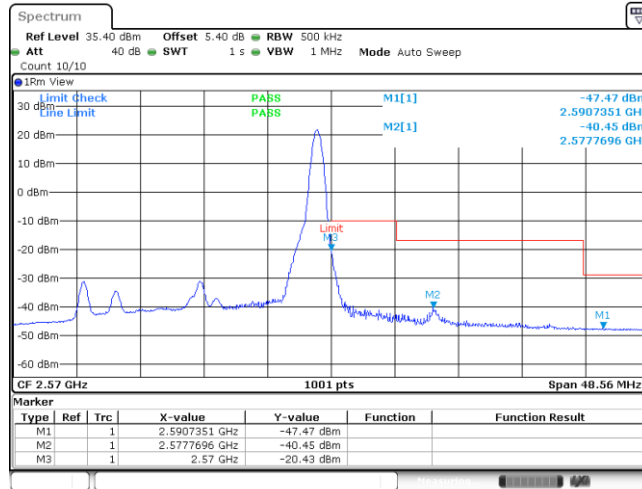
**Band7\_20MHz\_QPSK\_20850\_100RB#0**



**Band7\_20MHz\_QPSK\_21350\_1RB#99**

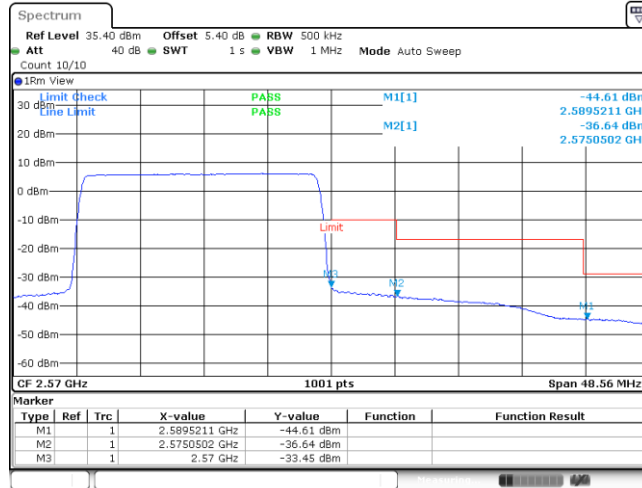


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Date: 4 AUG 2019 00:32:54

**Band7\_20MHz\_QPSK\_21350\_100RB#0**



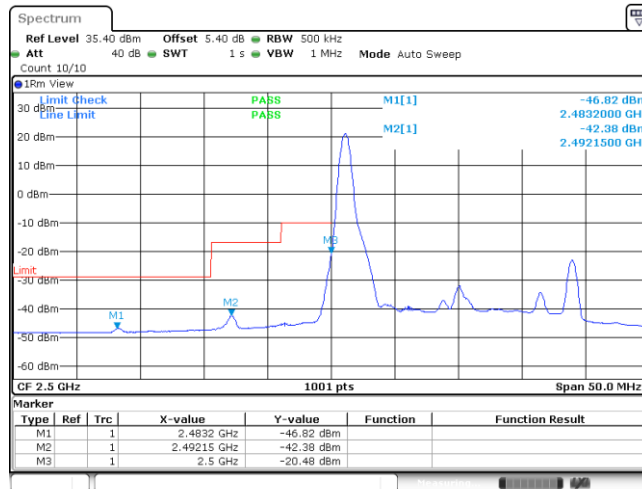
Date: 4 AUG 2019 00:34:19

**Band7\_20MHz\_16QAM\_20850\_1RB#0**



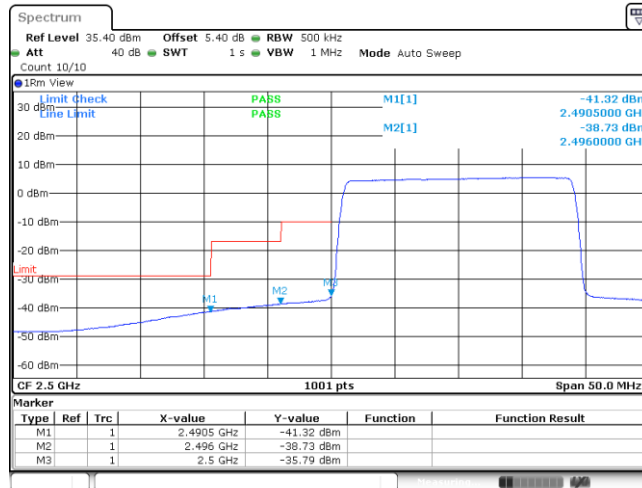
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Date: 4 AUG 2019 00:32:29

**Band7\_20MHz\_16QAM\_20850\_100RB#0**

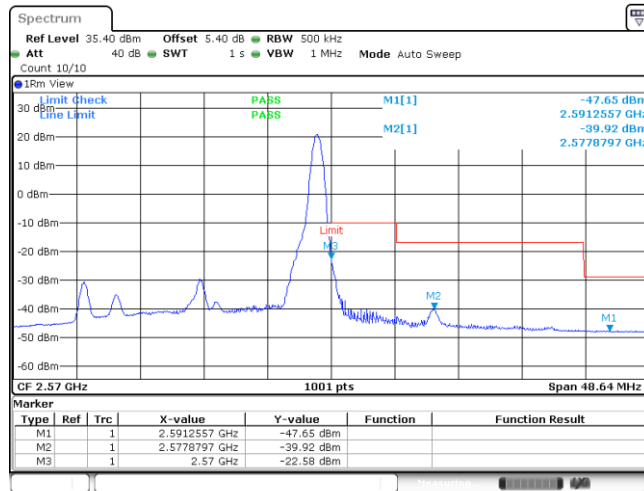


Date: 4 AUG 2019 00:33:59

**Band7\_20MHz\_16QAM\_21350\_1RB#99**

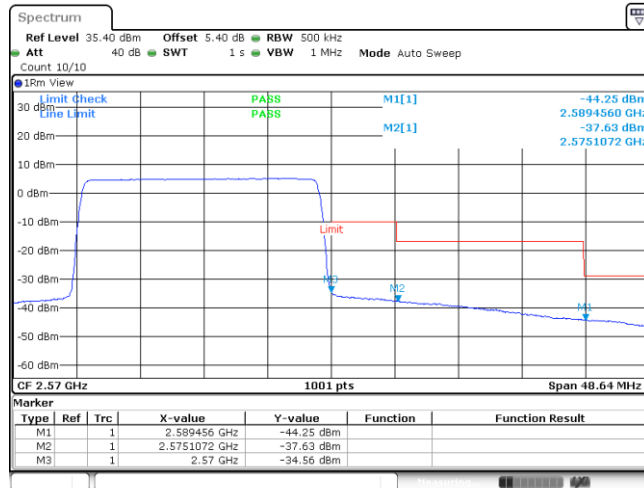


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Date: 4 AUG 2019 00:33:14

**Band7\_20MHz\_16QAM\_21350\_100RB#0**



Date: 4 AUG 2019 00:34:39



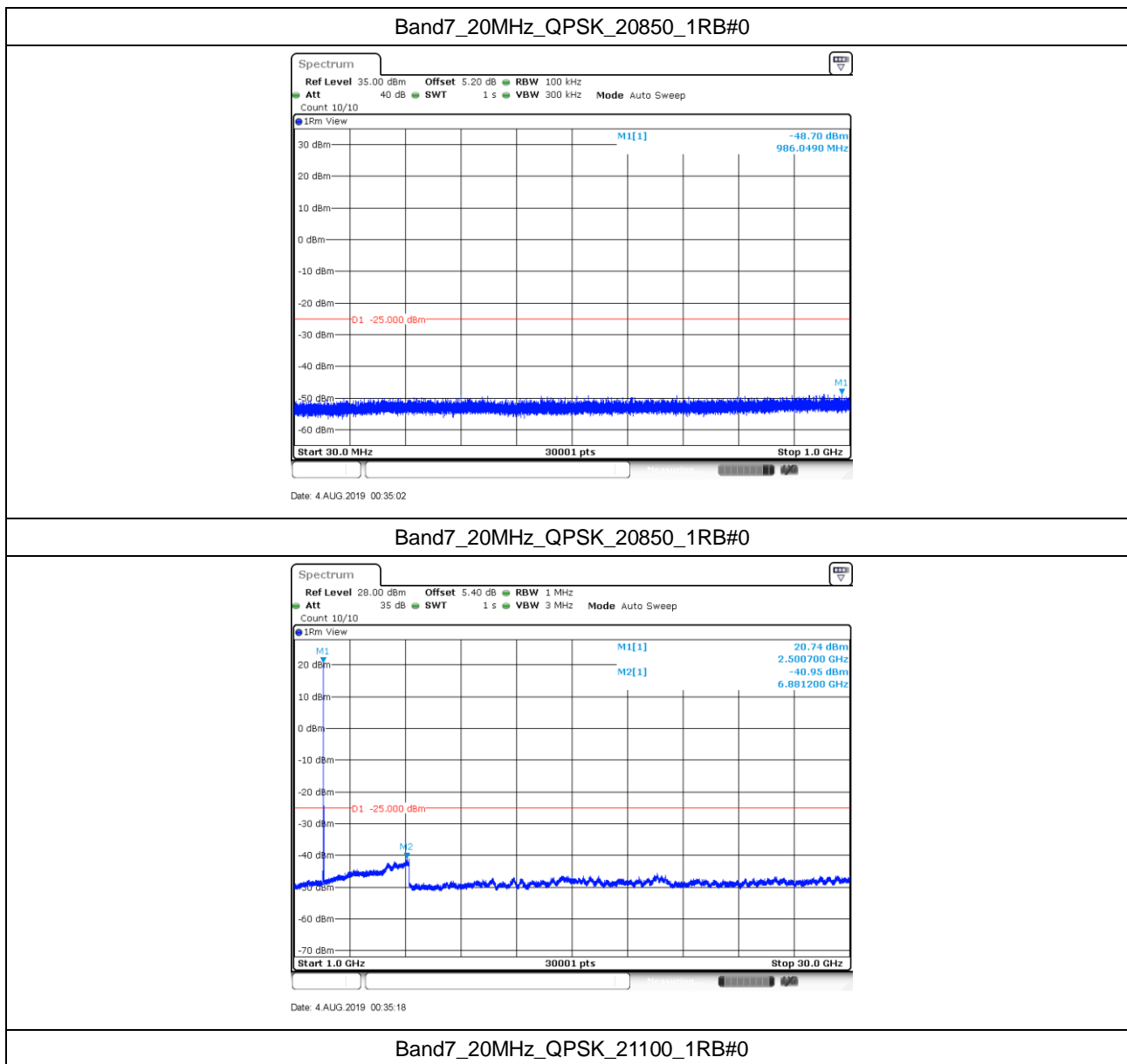
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## 6. Spurious Emission at Antenna Terminal

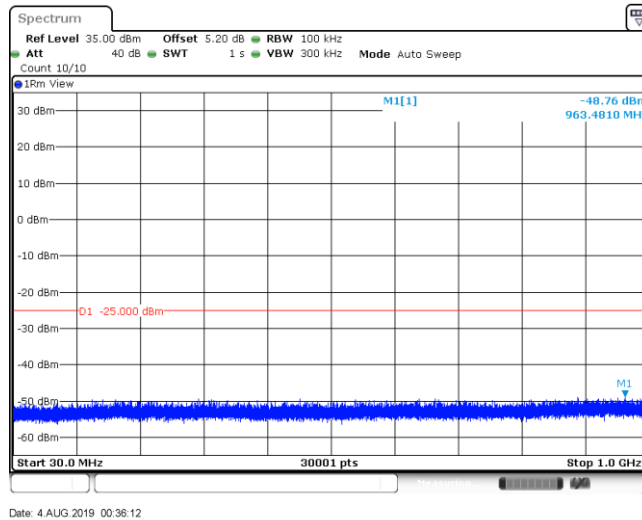
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

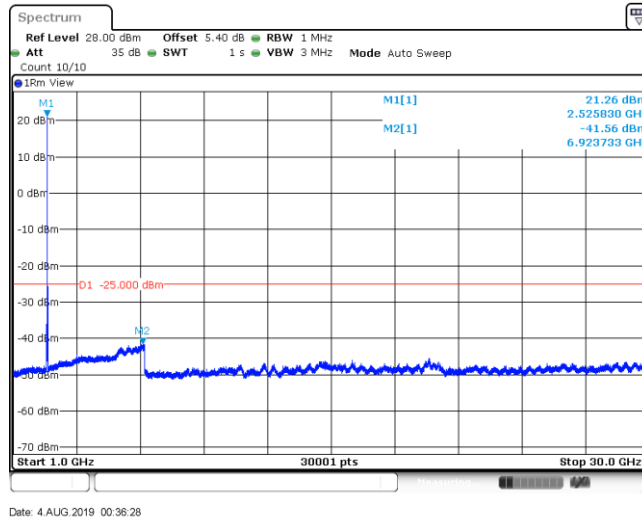
### 6.1. Test Plots



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Band7\_20MHz\_QPSK\_21100\_1RB#0

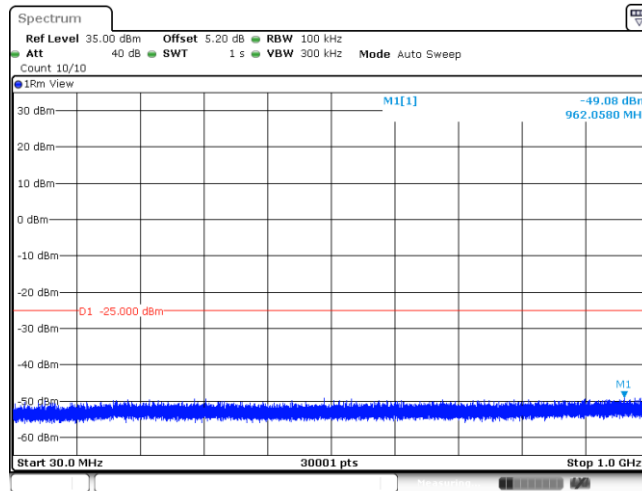


Band7\_20MHz\_QPSK\_21350\_1RB#0



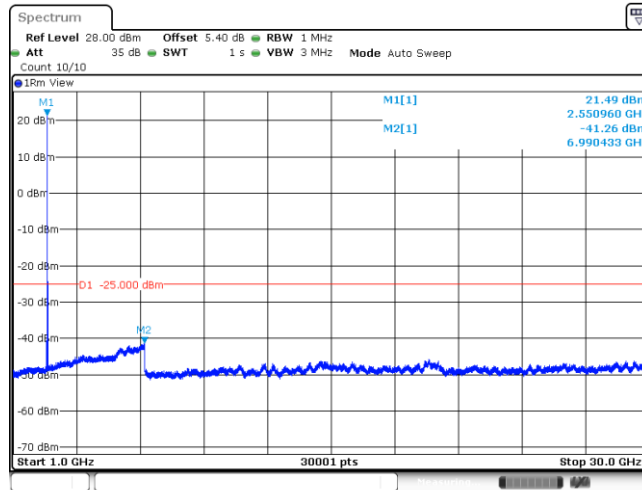
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Date: 4 AUG 2019 00:37:22

Band7\_20MHz\_QPSK\_21350\_1RB#0

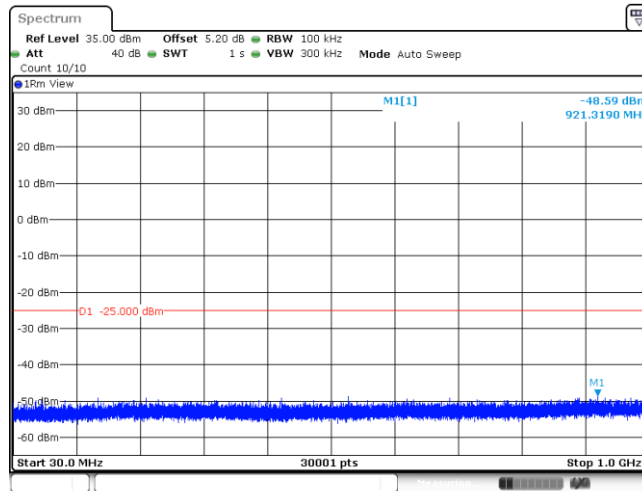


Date: 4 AUG 2019 00:37:39

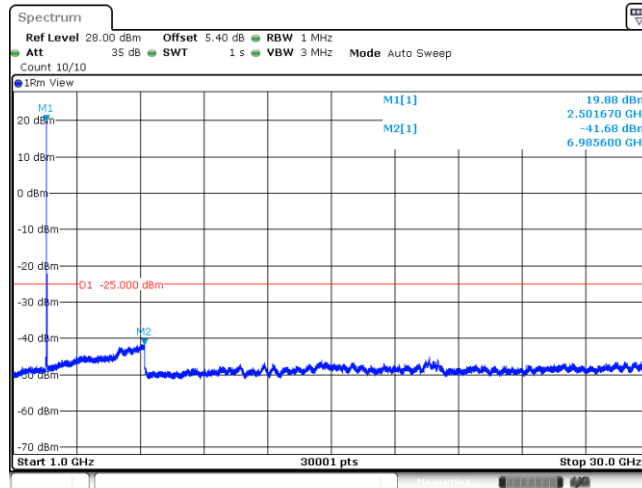
Band7\_20MHz\_16QAM\_20850\_1RB#0



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Band7\_20MHz\_16QAM\_20850\_1RB#0

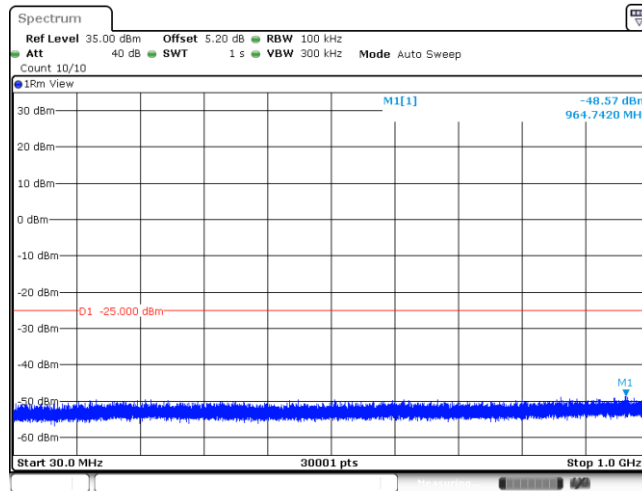


Band7\_20MHz\_16QAM\_21100\_1RB#0



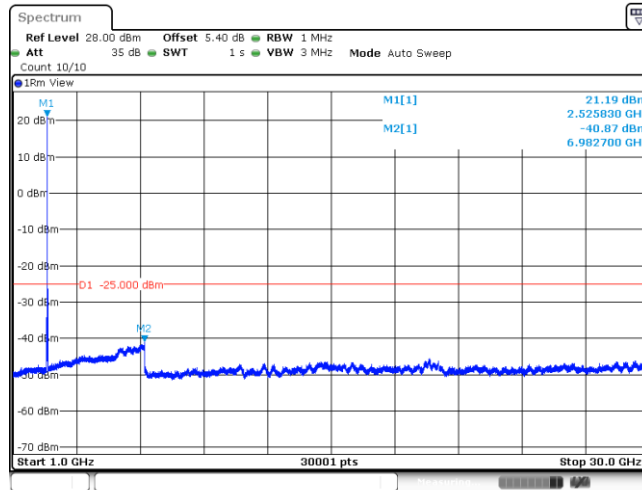
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Date: 4 AUG 2019 00:36:47

Band7\_20MHz\_16QAM\_21100\_1RB#0

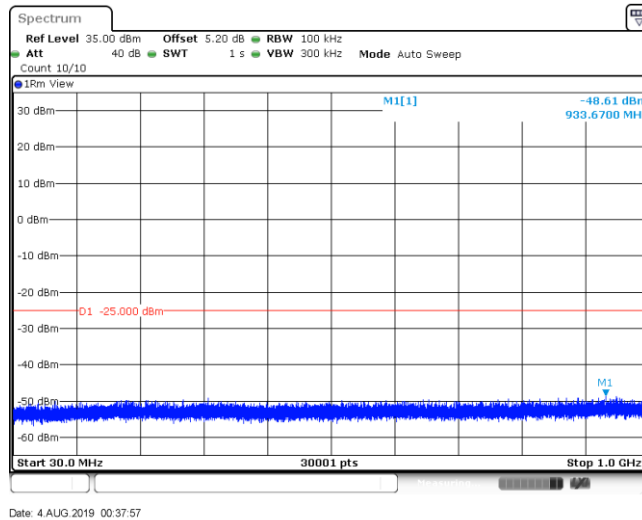


Date: 4 AUG 2019 00:37:03

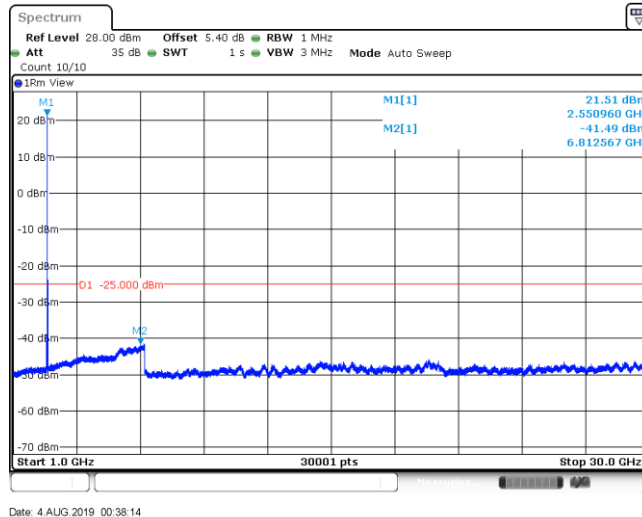
Band7\_20MHz\_16QAM\_21350\_1RB#0



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Band7\_20MHz\_16QAM\_21350\_1RB#0



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE Band 7

#### 7.1.1. Test Mode = LTE/TM1

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.6738	-65.46	-25.00	40.46	Vertical
849.6425	-62.34	-25.00	37.34	Vertical
2229.8460	-41.01	-25.00	16.01	Vertical
7361.5745	-55.40	-25.00	30.40	Vertical
14438.8576	-44.50	-25.00	19.50	Vertical
17990.9996	-34.52	-25.00	9.52	Vertical
42.2226	-65.03	-25.00	40.03	Horizontal
893.9252	-61.53	-25.00	36.53	Horizontal
2131.0262	-42.01	-25.00	17.01	Horizontal
8832.8333	-53.74	-25.00	28.74	Horizontal
16401.5361	-40.18	-25.00	15.18	Horizontal
17990.3996	-39.03	-25.00	14.03	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.5697	-65.23	-25.00	40.23	Vertical
835.7223	-61.65	-25.00	36.65	Vertical
2133.8268	-42.08	-25.00	17.08	Vertical
7316.5727	-55.23	-25.00	30.23	Vertical
14645.8658	-44.25	-25.00	19.25	Vertical
17987.3995	-35.04	-25.00	10.04	Vertical
42.7561	-64.80	-25.00	39.80	Horizontal
739.6875	-63.27	-25.00	38.27	Horizontal
2098.6197	-42.67	-25.00	17.67	Horizontal
7959.1984	-55.41	-25.00	30.41	Horizontal
16336.1334	-42.73	-25.00	17.73	Horizontal
17998.1999	-39.83	-25.00	14.83	Horizontal



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**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.4313	-65.35	-25.00	40.35	Vertical
903.5287	-62.02	-25.00	37.02	Vertical
2241.0482	-41.19	-25.00	16.19	Vertical
7472.5789	-55.25	-25.00	30.25	Vertical
14667.4667	-44.01	-25.00	19.01	Vertical
17999.4000	-34.56	-25.00	9.56	Vertical
39.7975	-65.31	-25.00	40.31	Horizontal
226.0953	-69.20	-25.00	44.20	Horizontal
2130.6261	-42.11	-25.00	17.11	Horizontal
7410.1764	-56.13	-25.00	31.13	Horizontal
16400.3360	-40.51	-25.00	15.51	Horizontal
17992.7997	-39.06	-25.00	14.06	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 had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

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	-2.70	-0.001076	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-8.90	-0.003546	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-7.20	-0.002869	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-5.00	-0.001972	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-0.70	-0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-4.10	-0.001602	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-3.10	-0.001211	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-0.90	-0.000359	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-9.30	-0.003705	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-12.10	-0.004773	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-2.20	-0.000868	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-7.70	-0.003008	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-6.30	-0.002461	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-11.10	-0.004336	±2.5	PASS

### 8.2. Frequency Vs Temperature

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	-9.40	-0.003745	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-2.30	-0.000916	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-4.60	-0.001833	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-4.00	-0.001594	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	0.40	0.000159	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-6.90	-0.002749	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-4.90	-0.001952	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-1.10	-0.000438	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-4.20	-0.001657	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-7.20	-0.002840	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-10.90	-0.004300	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-8.80	-0.003471	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-5.00	-0.001972	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-6.40	-0.002525	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-8.40	-0.003314	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-8.50	-0.003353	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-4.10	-0.001602	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-4.60	-0.001797	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-4.20	-0.001641	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-3.20	-0.001250	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-4.60	-0.001797	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-5.60	-0.002188	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-3.10	-0.001211	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-3.90	-0.001523	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-4.70	-0.001873	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-10.00	-0.003984	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-6.30	-0.002510	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-2.50	-0.000996	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-1.90	-0.000757	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-5.10	-0.002032	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-6.50	-0.002590	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-6.80	-0.002682	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-9.50	-0.003748	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-4.60	-0.001815	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-4.30	-0.001696	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-7.30	-0.002880	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-9.00	-0.003550	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-2.40	-0.000947	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-4.90	-0.001933	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-2.90	-0.001133	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-6.50	-0.002539	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-12.30	-0.004805	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-5.90	-0.002305	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-10.90	-0.004258	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	40	-1.50	-0.000586	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-5.40	-0.002109	±2.5	PASS

The End



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