



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	22.74	25.74	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.85	25.85	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.60	25.60	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.92	24.92	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.92	24.92	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.85	24.85	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.85	24.85	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.81	25.81	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.16	26.16	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.91	25.91	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.01	25.01	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.99	24.99	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.96	24.96	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.93	24.93	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.92	25.92	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.20	26.20	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.06	26.06	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.22	25.22	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.28	25.28	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.18	25.18	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.20	25.20	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.85	23.85	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.13	24.13	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.20	24.20	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.32	23.32	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.33	23.33	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.38	23.38	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.27	24.27	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.59	24.59	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.47	24.47	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.14	24.14	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.42	23.42	33.00	PASS



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Band7	5MHz	16QAM	21100	12RB#6	20.51	23.51	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.54	23.54	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.11	24.11	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.14	24.14	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.48	24.48	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.45	24.45	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.52	23.52	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.84	23.84	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.77	23.77	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.07	24.07	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.78	25.78	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.33	26.33	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.26	25.26	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.10	25.10	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.09	25.09	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.81	24.81	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.95	24.95	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.93	25.93	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.65	26.65	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.59	25.59	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.26	25.26	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.25	25.25	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.88	24.88	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.98	24.98	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.01	26.01	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.60	26.60	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.98	25.98	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.44	25.44	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.40	25.40	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.20	25.20	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.26	25.26	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.77	23.77	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.60	24.60	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.74	23.74	33.00	PASS
Band7	10MHz	16QAM	20800	27RB#0	22.14	25.14	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.83	23.83	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.46	24.46	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.97	23.97	33.00	PASS



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Band7	10MHz	16QAM	21100	27RB#0	21.95	24.95	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.40	24.40	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.68	24.68	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.91	23.91	33.00	PASS
Band7	10MHz	16QAM	21400	27RB#0	22.20	25.20	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.91	25.91	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.41	26.41	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.66	25.66	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.15	25.15	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.19	25.19	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.99	24.99	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.15	25.15	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.58	25.58	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.30	26.30	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.60	25.60	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.26	25.26	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.26	25.26	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.02	25.02	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.23	25.23	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.80	25.80	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.39	26.39	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.75	25.75	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.50	25.50	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.39	25.39	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.19	25.19	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.99	24.99	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.44	24.44	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.68	24.68	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.02	24.02	33.00	PASS
Band7	15MHz	16QAM	20825	27RB#0	22.08	25.08	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.31	24.31	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.78	24.78	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.13	24.13	33.00	PASS
Band7	15MHz	16QAM	21100	27RB#0	22.19	25.19	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.47	24.47	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.92	24.92	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.28	24.28	33.00	PASS
Band7	15MHz	16QAM	21375	27RB#0	21.83	24.83	33.00	PASS



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Band7	20MHz	QPSK	20850	1RB#0	22.32	25.32	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.14	26.14	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.38	25.38	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.90	24.90	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.92	24.92	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.72	24.72	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.24	25.24	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.57	25.57	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.19	26.19	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.47	25.47	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.94	24.94	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.94	24.94	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.78	24.78	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.07	25.07	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.62	25.62	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.29	26.29	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.31	25.31	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.10	25.10	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.97	24.97	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.12	25.12	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.15	25.15	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.93	24.93	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.08	25.08	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.18	25.18	33.00	PASS
Band7	20MHz	16QAM	20850	27RB#0	22.10	25.10	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.86	24.86	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.18	25.18	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.94	24.94	33.00	PASS
Band7	20MHz	16QAM	21100	27RB#0	21.98	24.98	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.03	25.03	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.18	25.18	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.85	24.85	33.00	PASS
Band7	20MHz	16QAM	21350	27RB#0	21.92	24.92	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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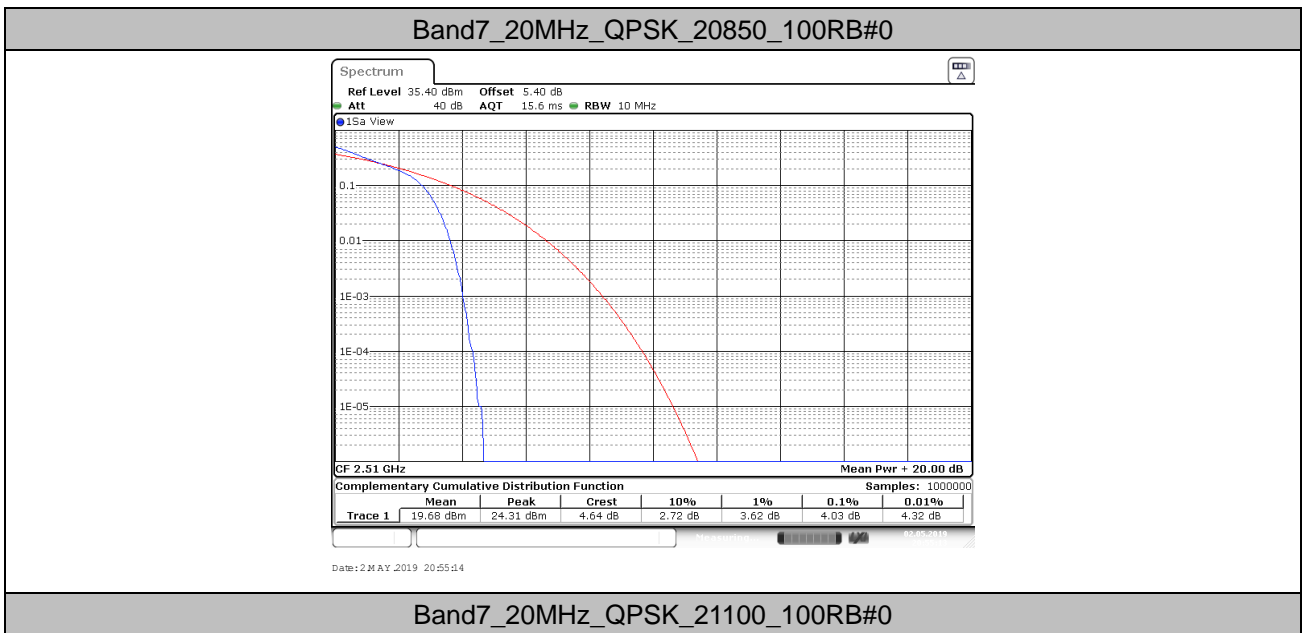
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2. Peak-to-Average Ratio(CCDFF)

2.1. Test Result

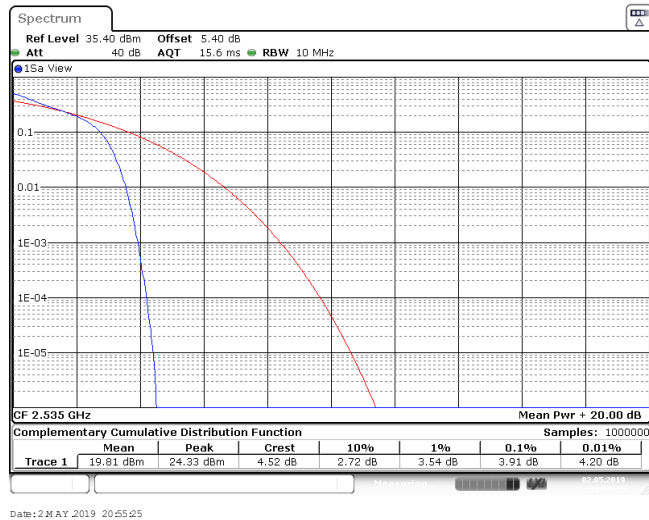
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.03	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	3.91	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.06	13	PASS
Band7	20MHz	16QAM	20850	27RB#0	5.94	13	PASS
Band7	20MHz	16QAM	21100	27RB#0	5.80	13	PASS
Band7	20MHz	16QAM	21350	27RB#0	5.77	13	PASS

2.2. Test Plots



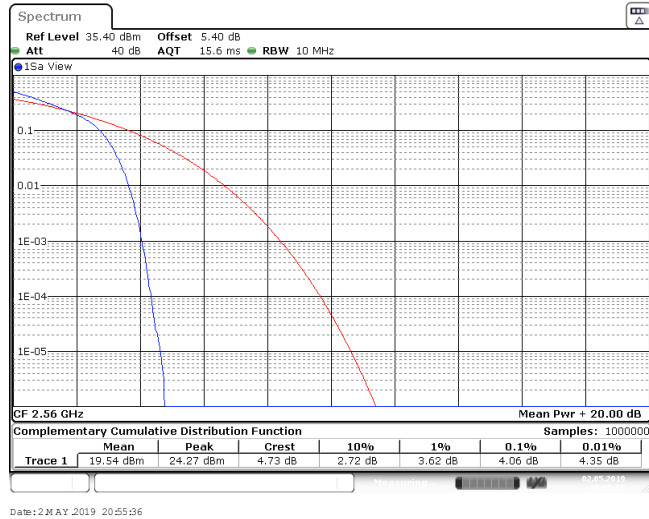
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Date: 2 MAY 2019 20:55:25

Band7_20MHz_QPSK_21350_100RB#0

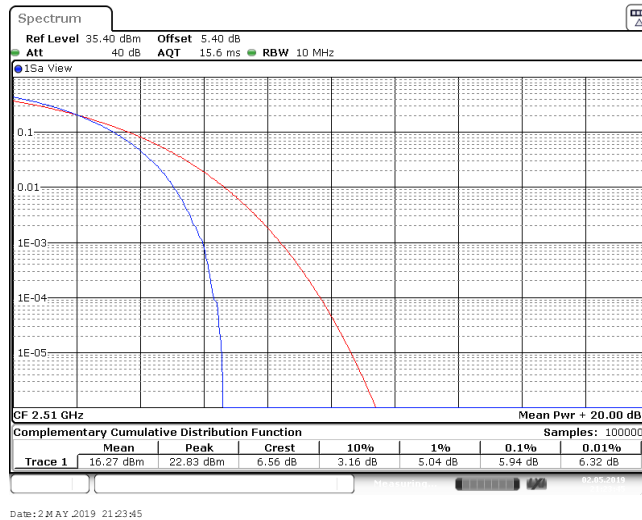


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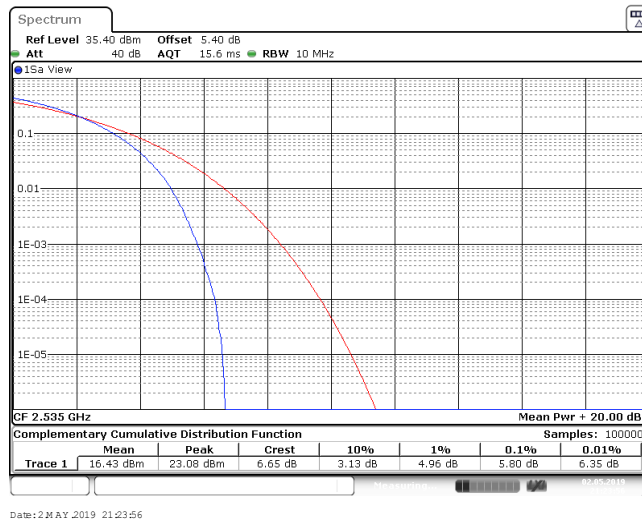
Band7_20MHz_16QAM_20850_27RB#0



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Band7_20MHz_16QAM_21100_27RB#0

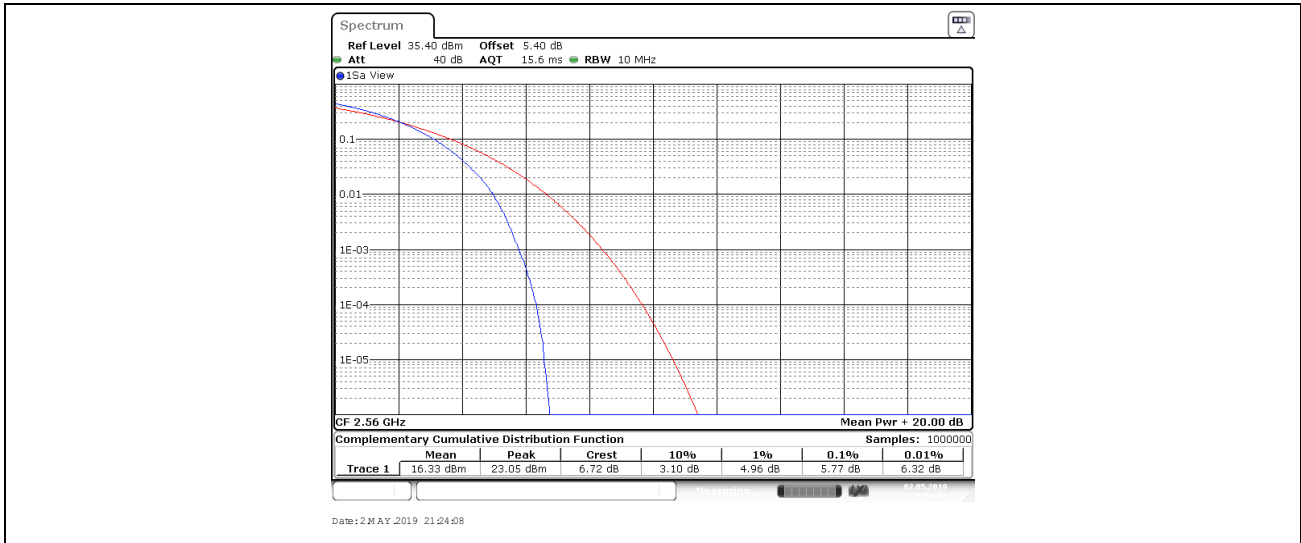


Band7_20MHz_16QAM_21350_27RB#0



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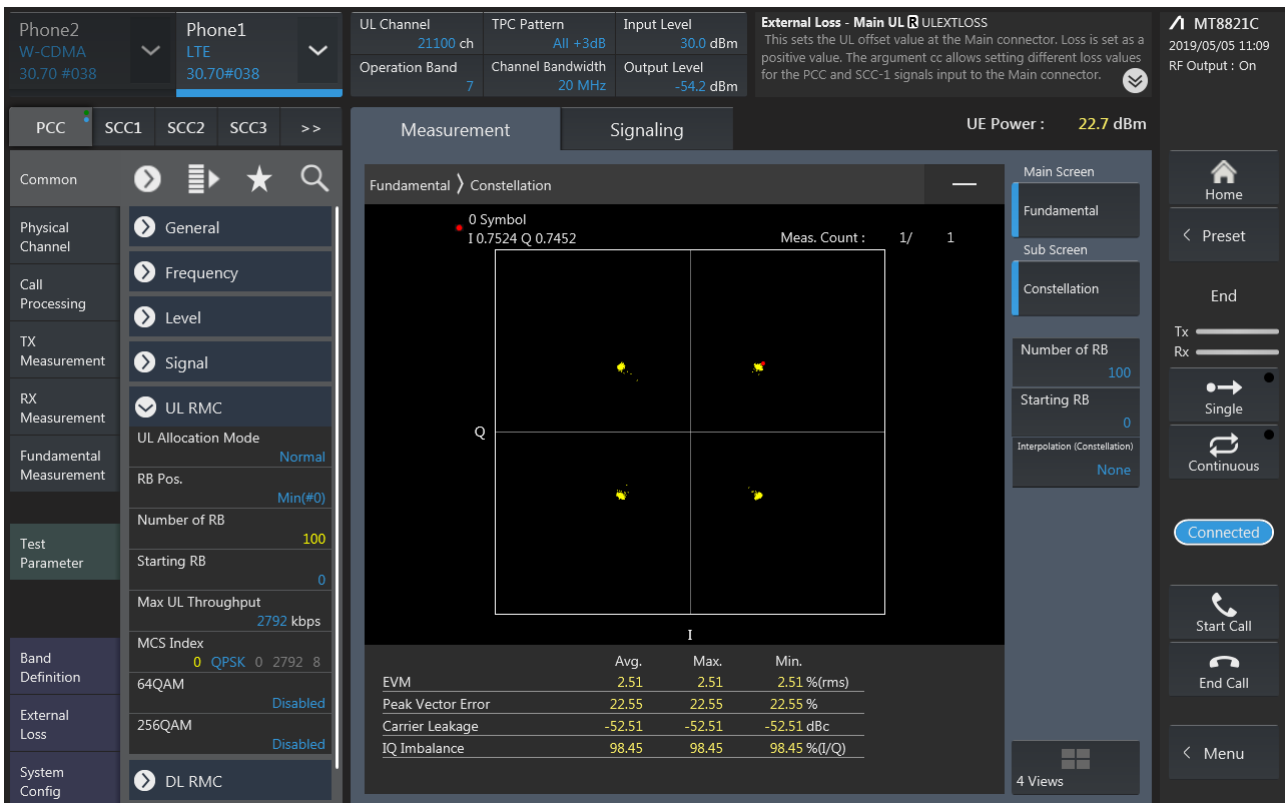


3. Modulation Characteristics

3.1. Test BAND = LTE Band 7

3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH

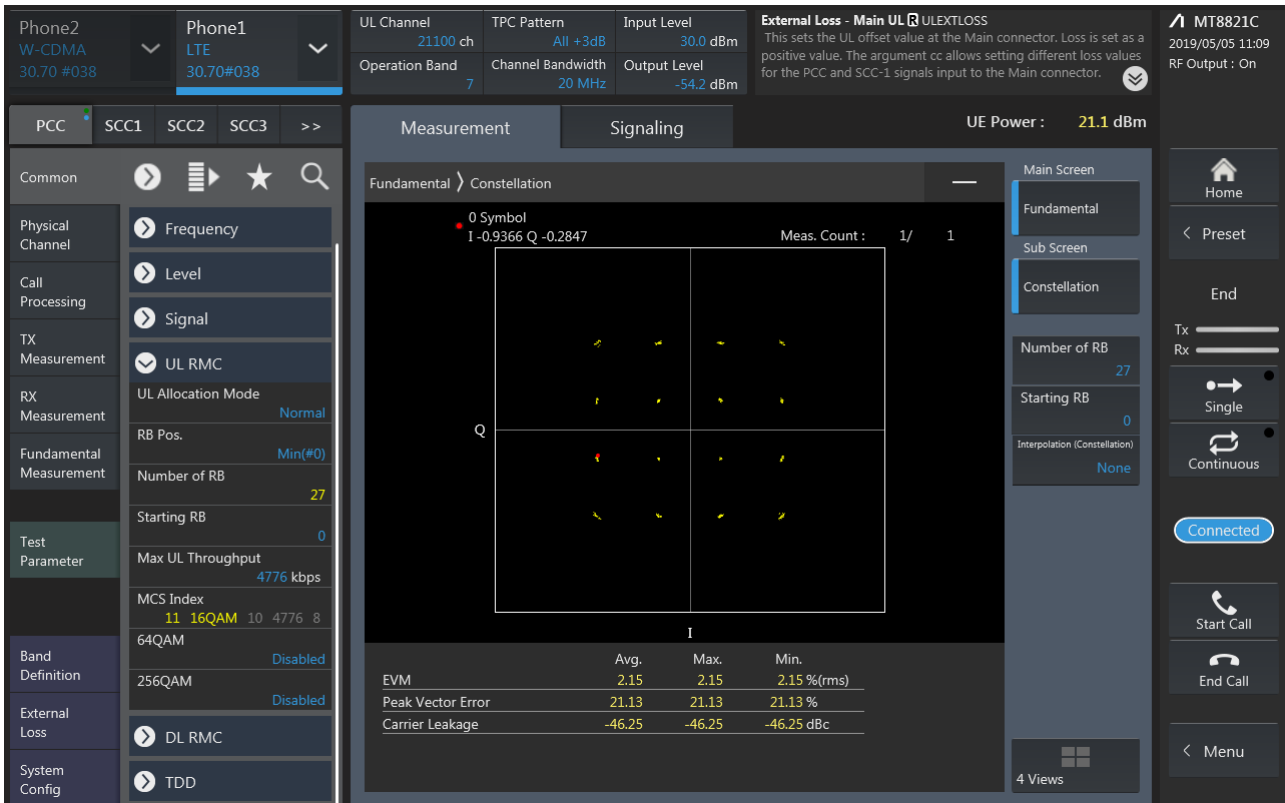


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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

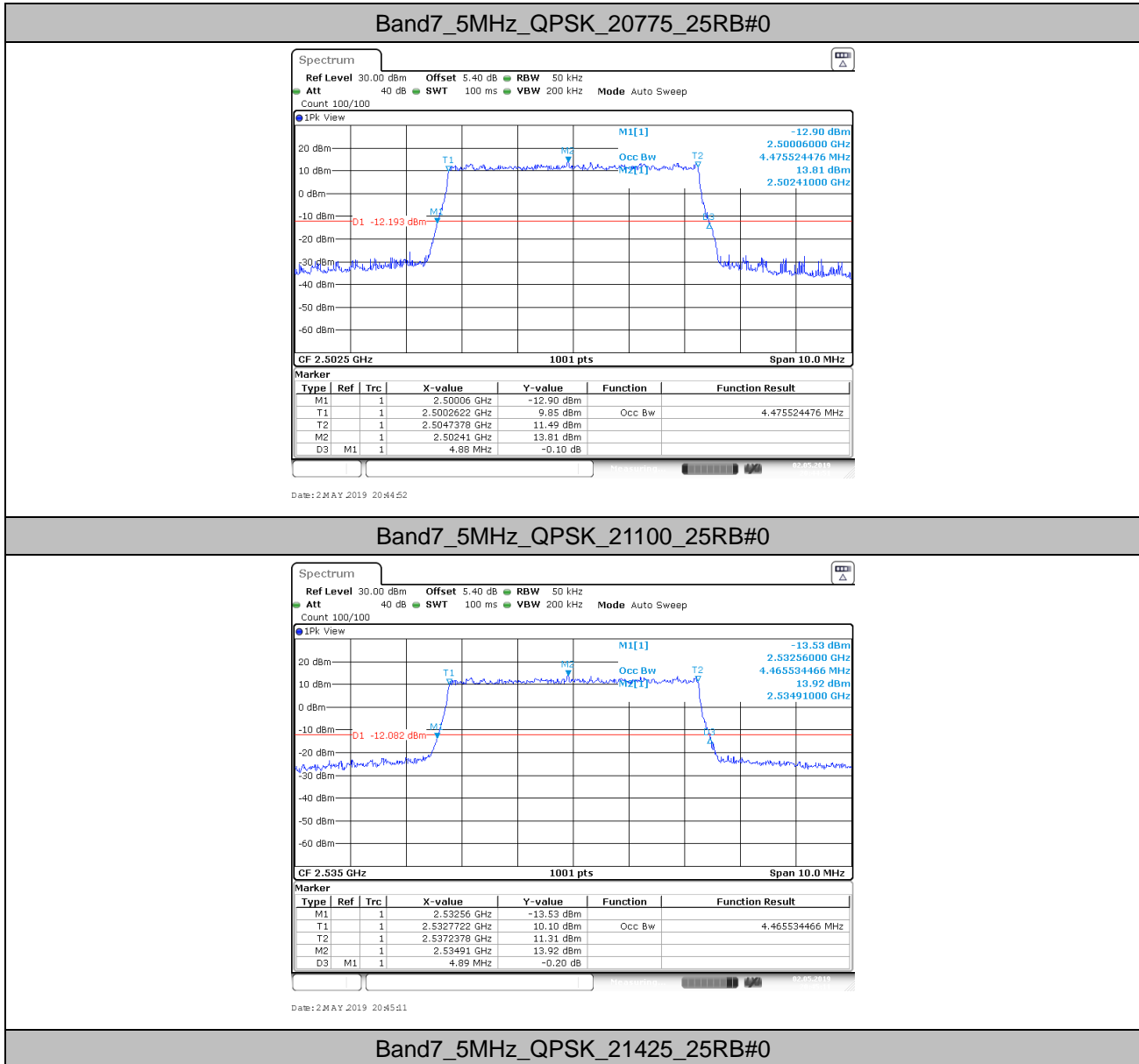
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.880	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.890	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.466	4.880	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.930	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.930	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.920	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.640	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.680	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.680	PASS
Band7	10MHz	16QAM	20800	27RB#0	4.875	5.620	PASS
Band7	10MHz	16QAM	21100	27RB#0	4.875	5.680	PASS
Band7	10MHz	16QAM	21400	27RB#0	4.875	5.640	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.730	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.427	14.640	PASS
Band7	15MHz	16QAM	20825	27RB#0	5.065	6.030	PASS
Band7	15MHz	16QAM	21100	27RB#0	5.035	6.090	PASS
Band7	15MHz	16QAM	21375	27RB#0	5.065	6.090	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.400	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	19.360	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.400	PASS
Band7	20MHz	16QAM	20850	27RB#0	5.075	6.200	PASS
Band7	20MHz	16QAM	21100	27RB#0	5.155	6.480	PASS
Band7	20MHz	16QAM	21350	27RB#0	5.155	6.480	PASS



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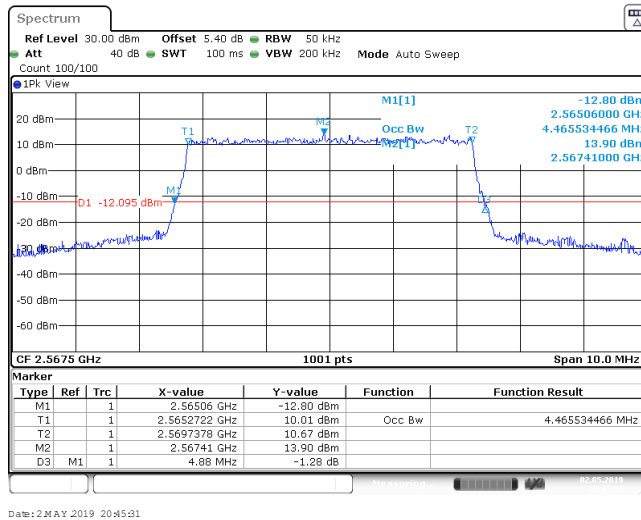
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4.2. Test Plots

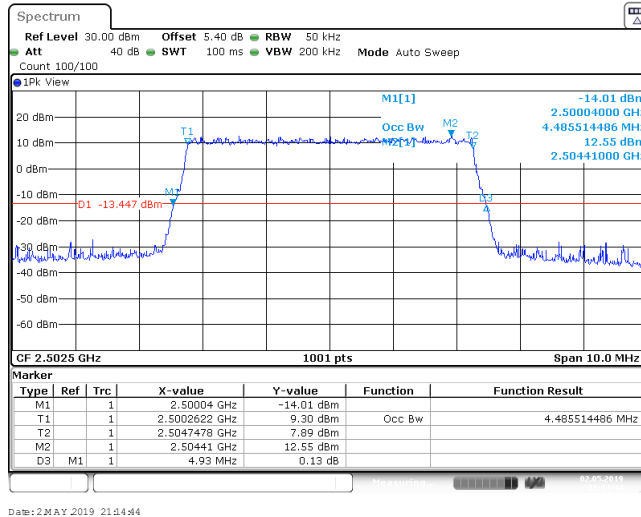


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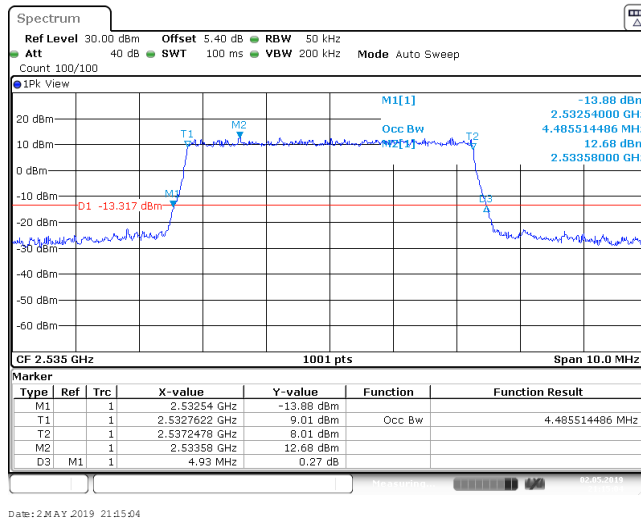
Band7_5MHz_16QAM_20775_25RB#0



Band7_5MHz_16QAM_21100_25RB#0

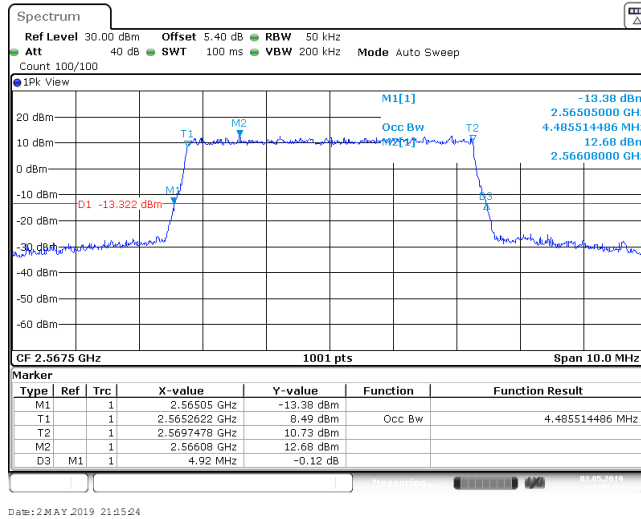


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Date: 2 MAY 2019 21:55:04

Band7_5MHz_16QAM_21425_25RB#0

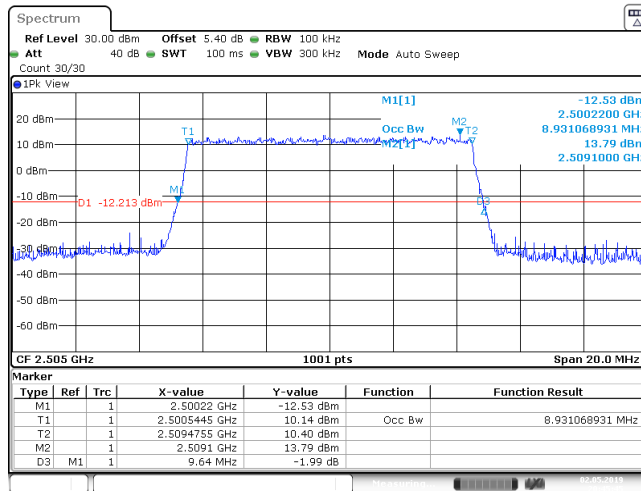


Date: 2 MAY 2019 21:55:24

Band7_10MHz_QPSK_20800_50RB#0

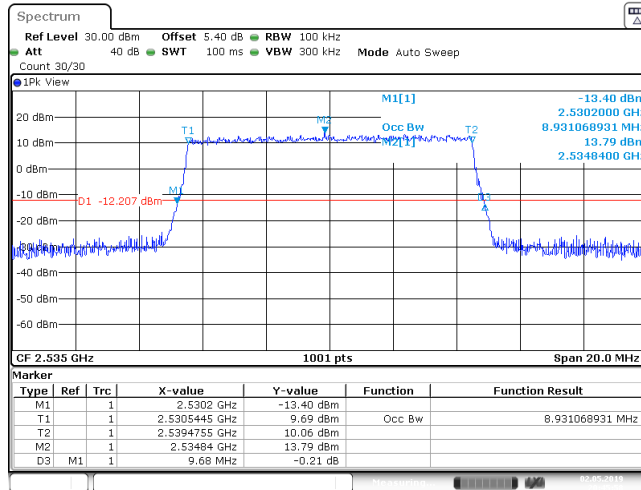


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Date: 2 MAY 2019 20:45:46

Band7_10MHz_QPSK_21100_50RB#0

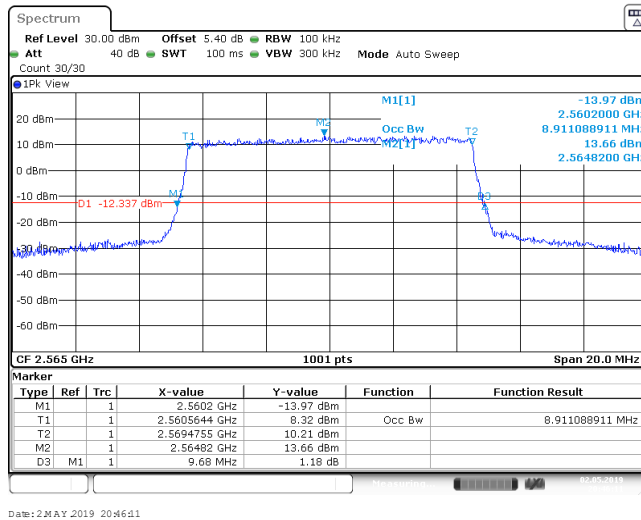


Date: 2 MAY 2019 20:45:58

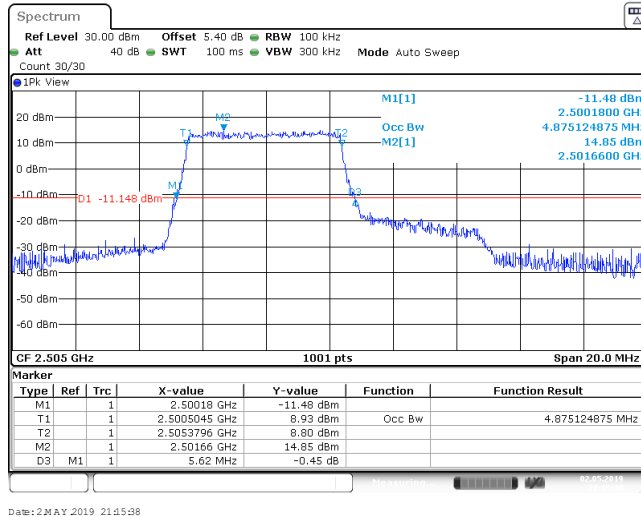
Band7_10MHz_QPSK_21400_50RB#0



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Band7_10MHz_16QAM_20800_27RB#



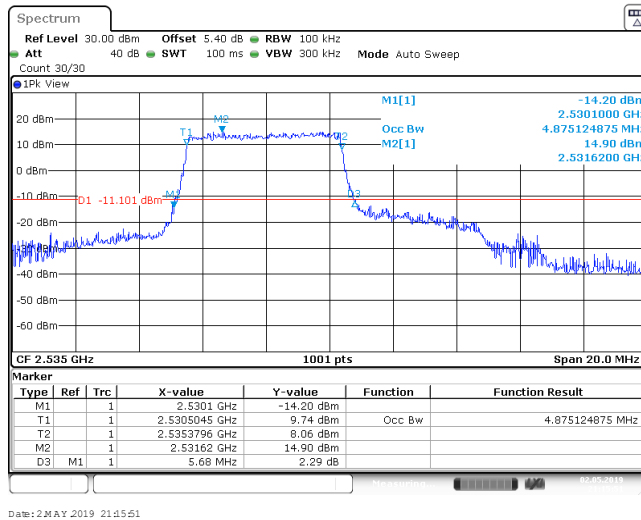
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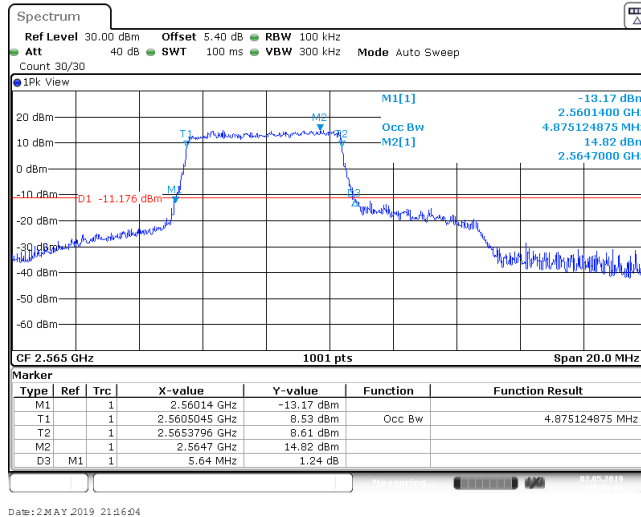
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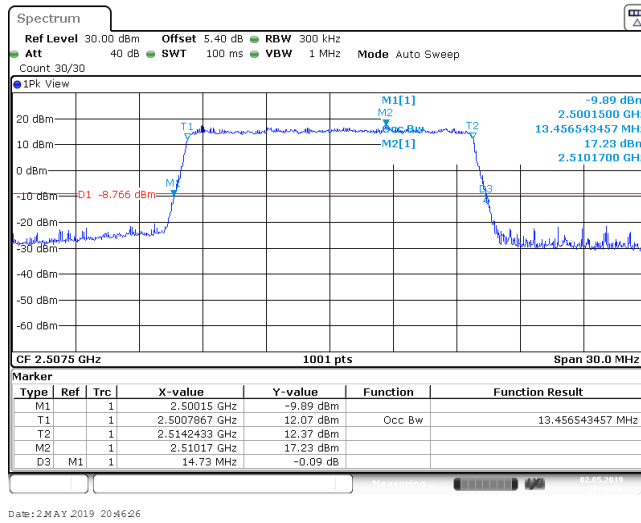
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Band7_15MHz_QPSK_20825_75RB#

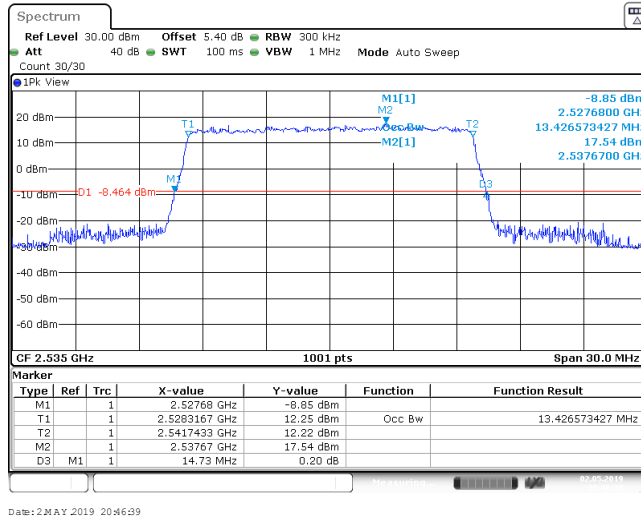


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Band7_15MHz_QPSK_21100_75RB#0

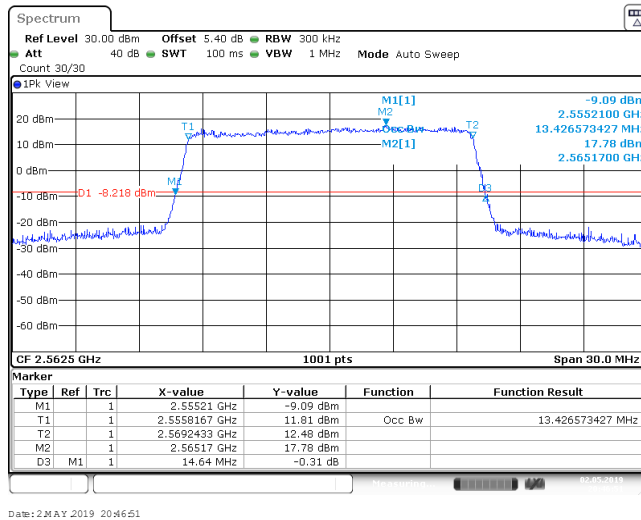


Date: 2 MAY 2019 20:46:39

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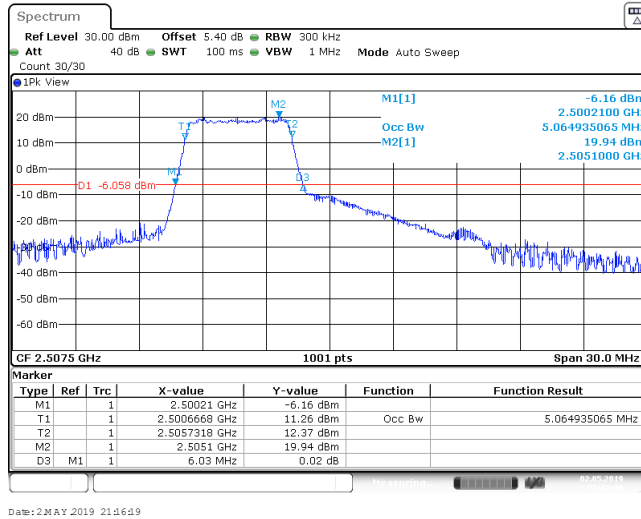


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Date: 2 MAY 2019 20:46:51

Band7_15MHz_16QAM_20825_27RB#0

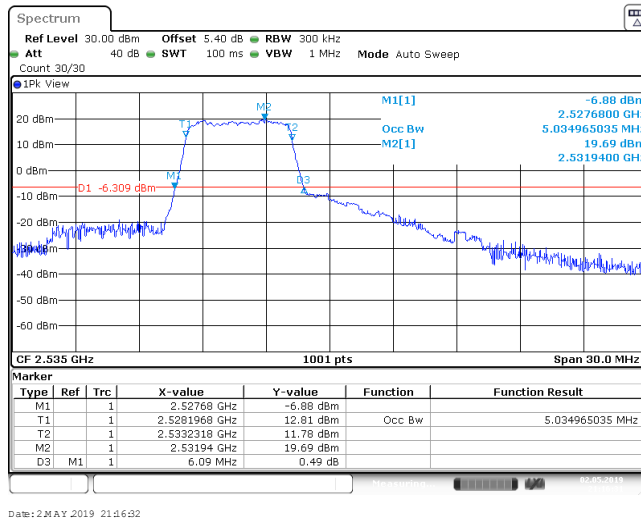


Date: 2 MAY 2019 21:16:49

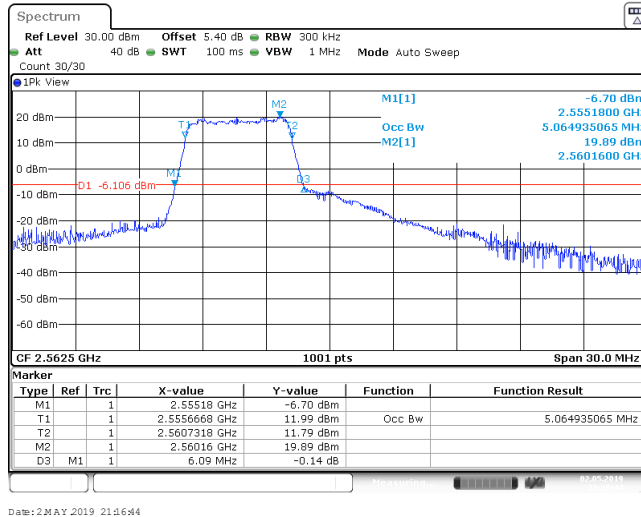
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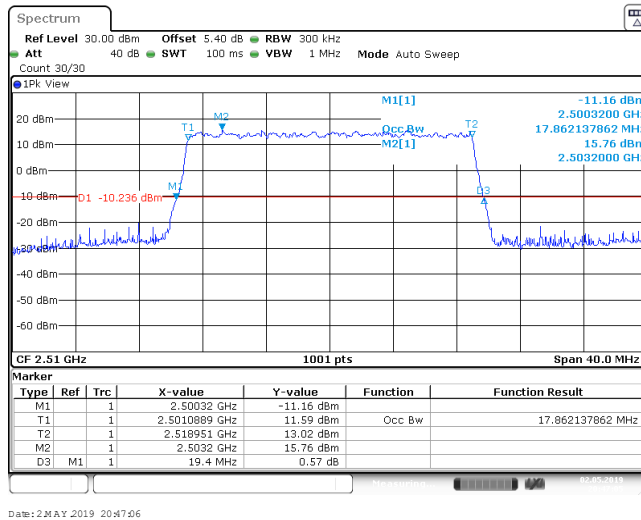
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Band7_20MHz_QPSK_20850_100RB#

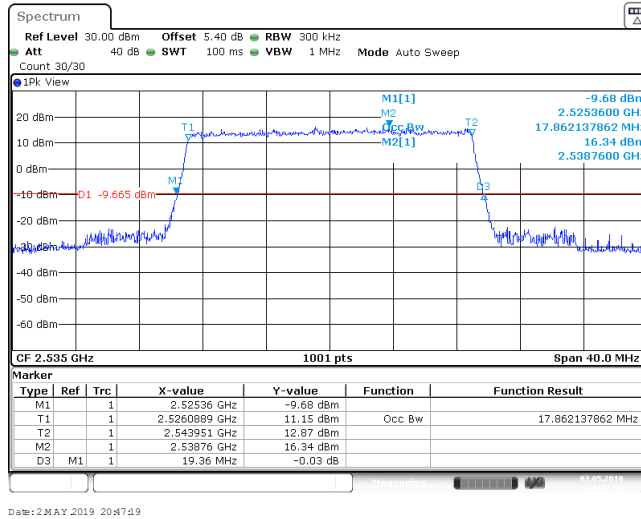


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Date: 2 MAY 2019 20:47:06

Band7_20MHz_QPSK_21100_100RB#0

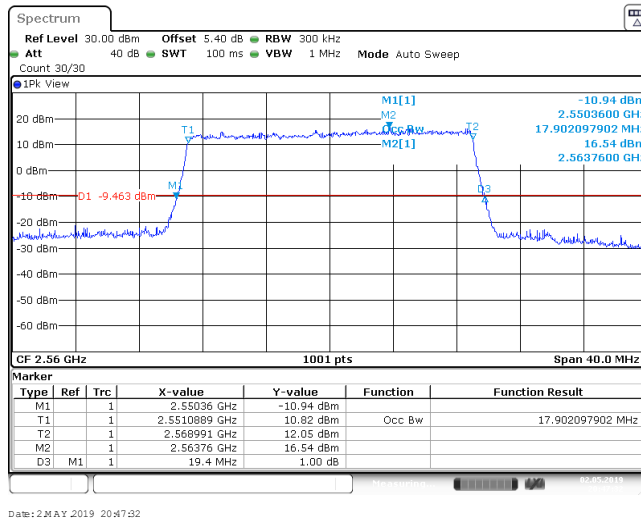


Date: 2 MAY 2019 20:47:09

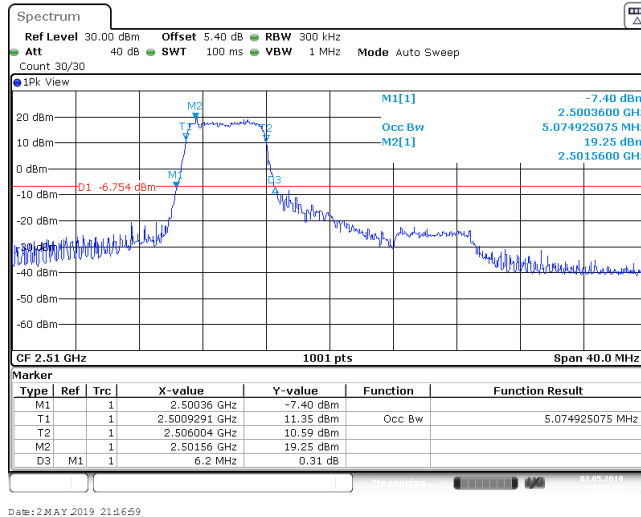
Band7_20MHz_QPSK_21350_100RB#0



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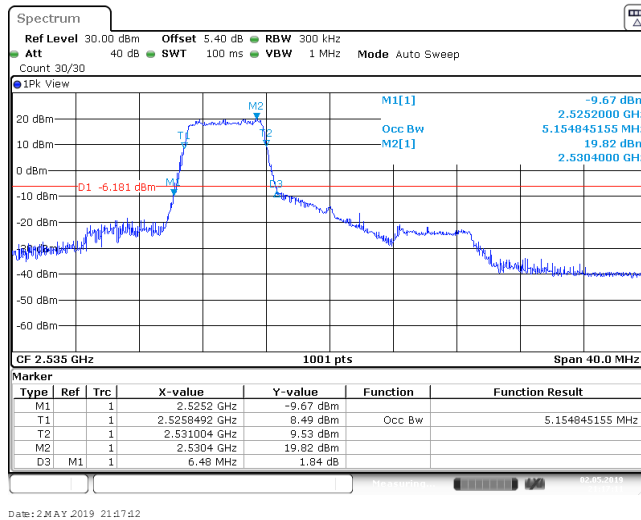
Band7_20MHz_16QAM_20850_27RB#



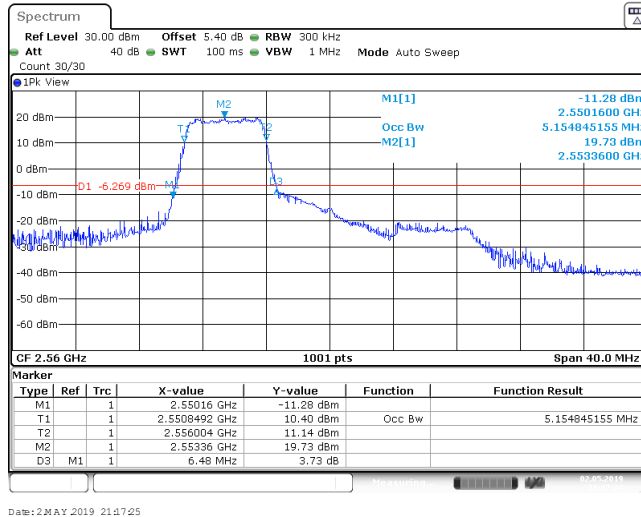
Band7_20MHz_16QAM_21100_27RB#



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Band7_20MHz_16QAM_21350_27RB#0

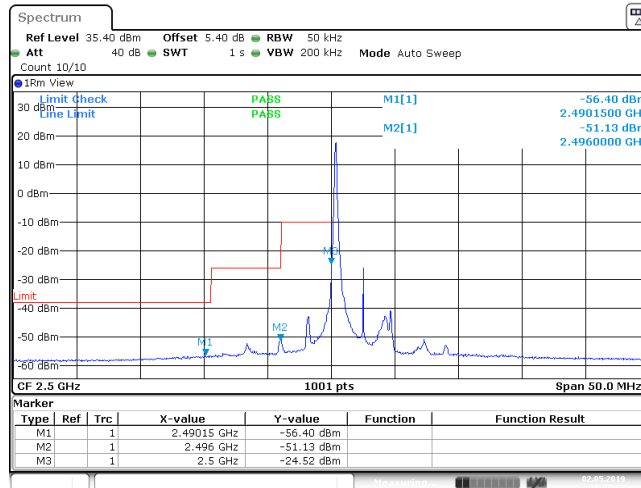


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5. Band Edge Compliance

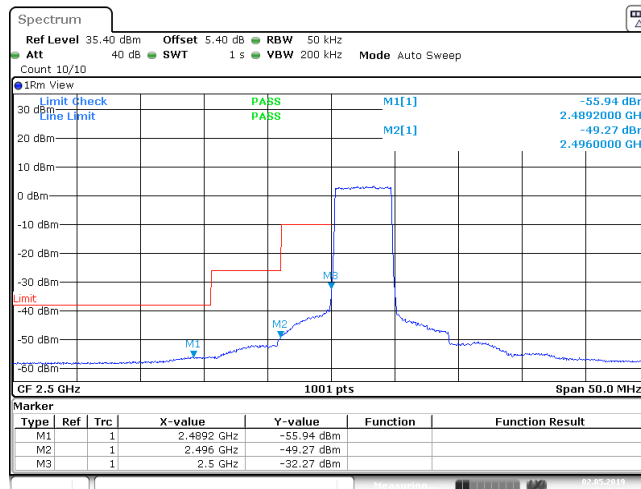
5.1. Test Plots

Band7_5MHz_QPSK_20775_1RB#0



Date: 2 MAY 2019 20:47:54

Band7_5MHz_QPSK_20775_25RB#0

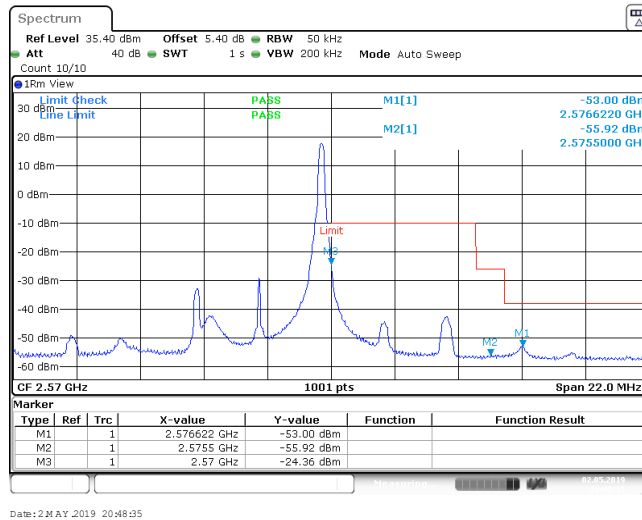


Date: 2 MAY 2019 20:48:14

Band7_5MHz_QPSK_21425_1RB#24

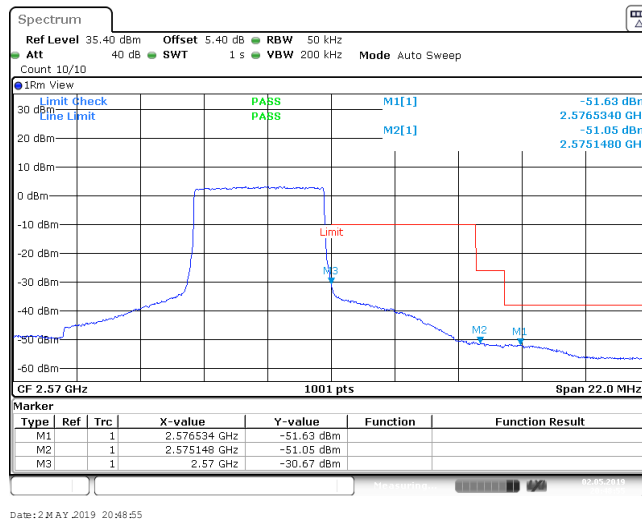


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Date: 2 MAY 2019 20:48:35

Band7_5MHz_QPSK_21425_25RB#0

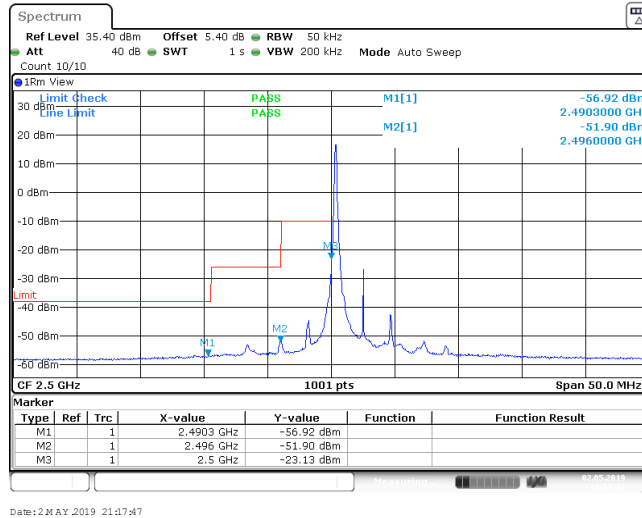


Date: 2 MAY 2019 20:48:55

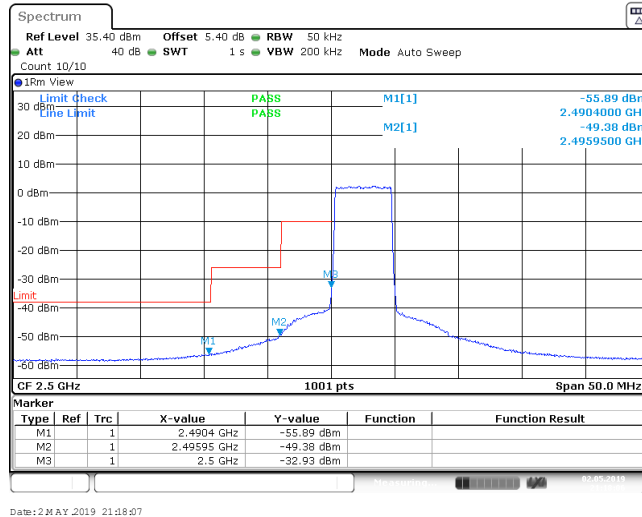
Band7_5MHz_16QAM_20775_1RB#0



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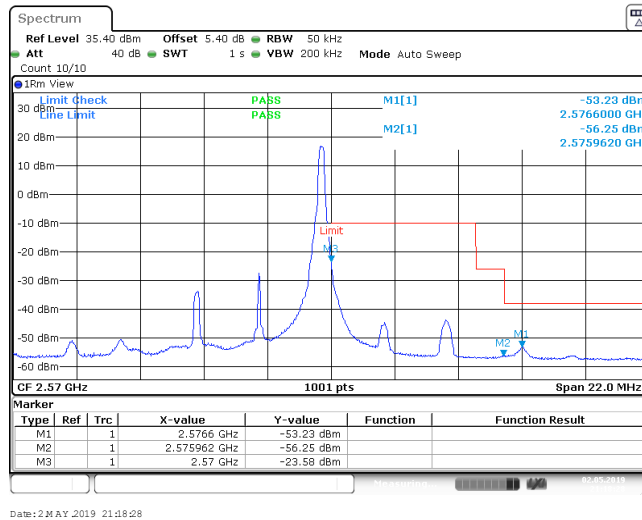
Band7_5MHz_16QAM_20775_25RB#0



Band7_5MHz_16QAM_21425_1RB#24

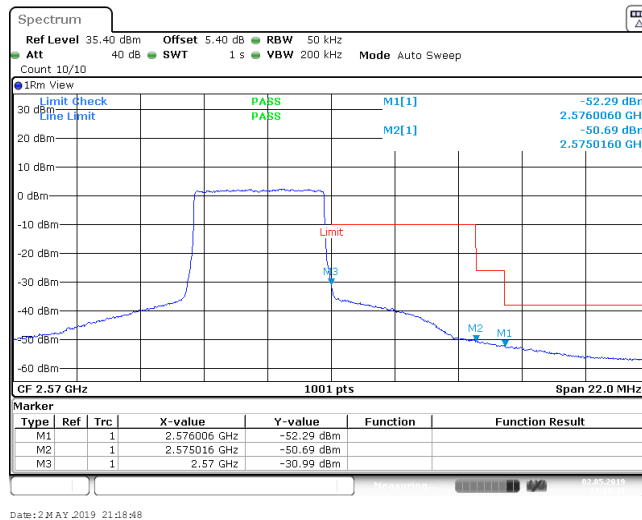


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Date: 2 MAY 2019 21:18:28

Band7_5MHz_16QAM_21425_25RB#0

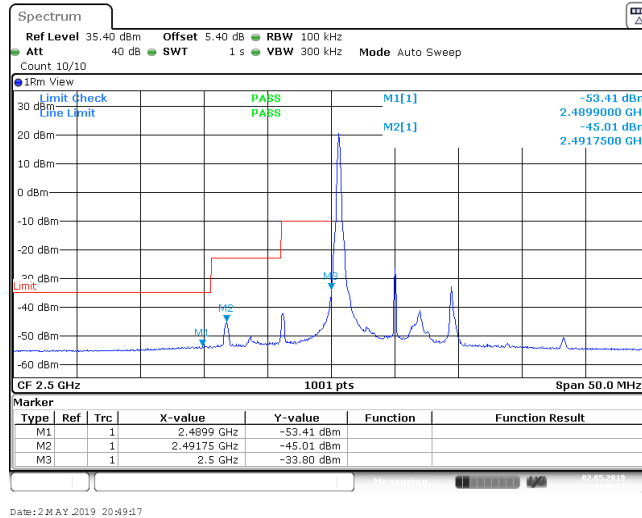


Date: 2 MAY 2019 21:18:48

Band7_10MHz_QPSK_20800_1RB#0

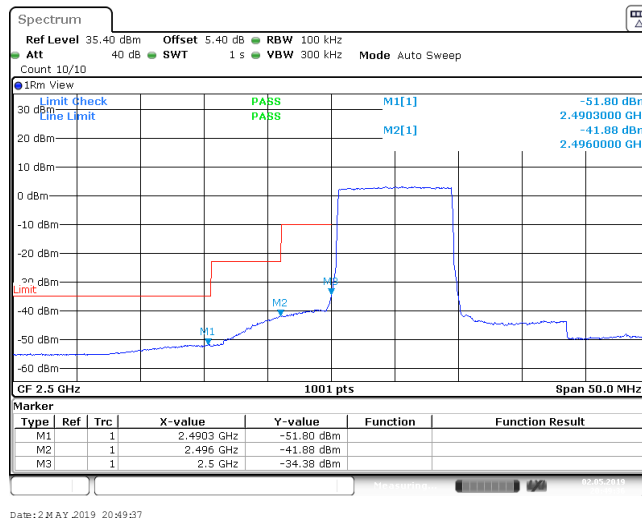


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Date: 2 MAY 2019 20:49:17

Band7_10MHz_QPSK_20800_50RB#0

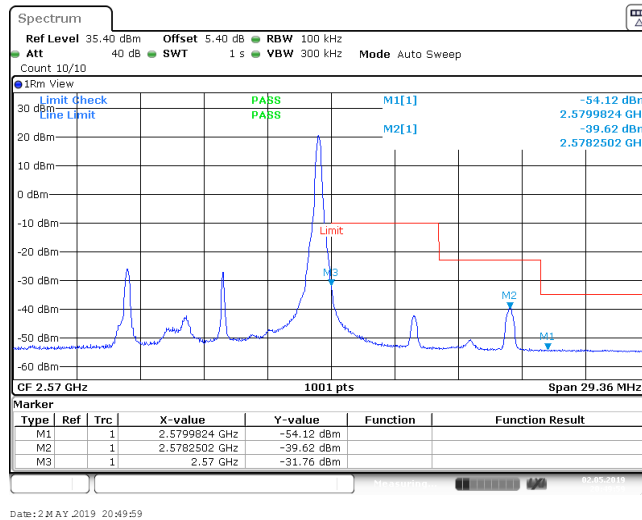


Date: 2 MAY 2019 20:49:37

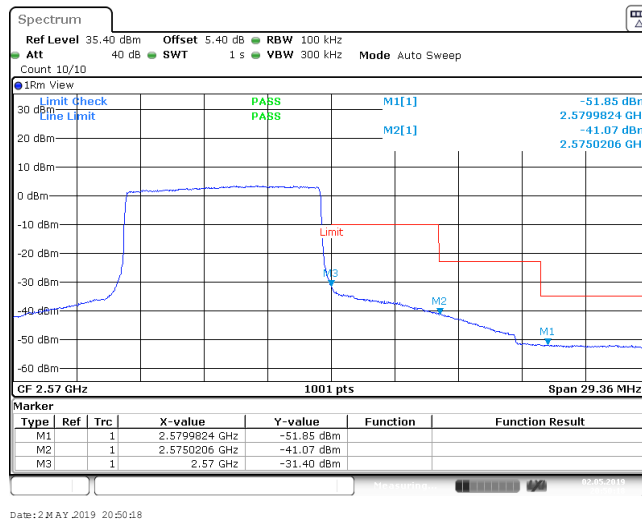
Band7_10MHz_QPSK_21400_1RB#49



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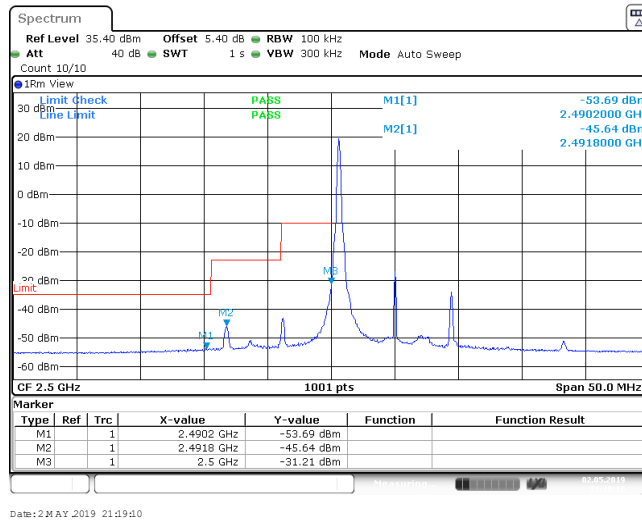
Band7_10MHz_QPSK_21400_50RB#0



Band7_10MHz_16QAM_20800_1RB#0

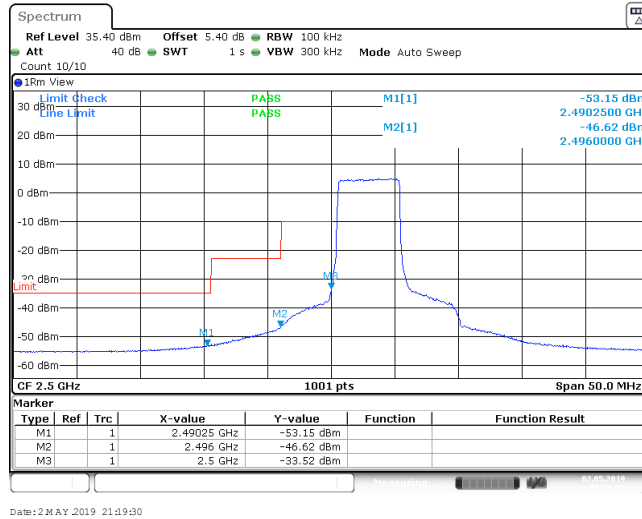


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Date: 2 MAY 2019 21:19:40

Band7_10MHz_16QAM_20800_27RB#0

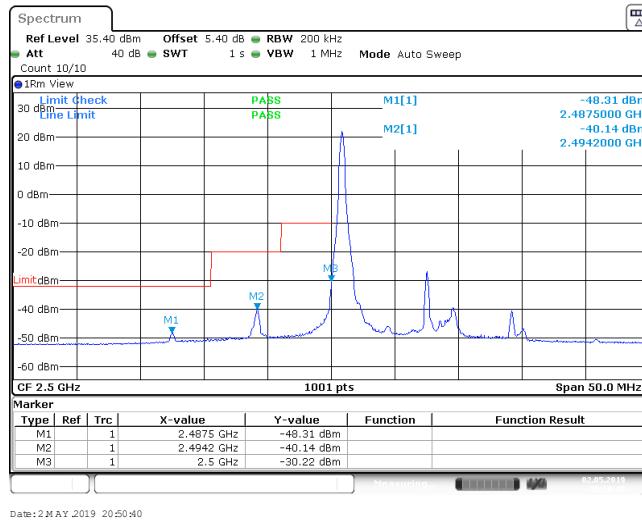


Date: 2 MAY 2019 21:19:30

Band7_15MHz_QPSK_20825_1RB#0

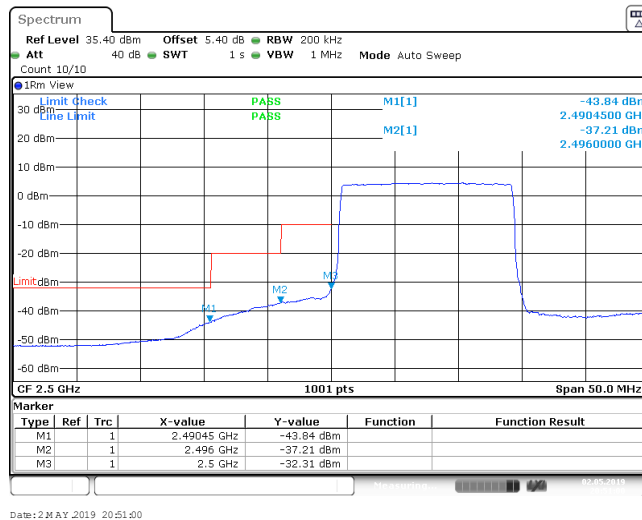


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Date: 2 MAY 2019 20:50:40

Band7_15MHz_QPSK_20825_75RB#0

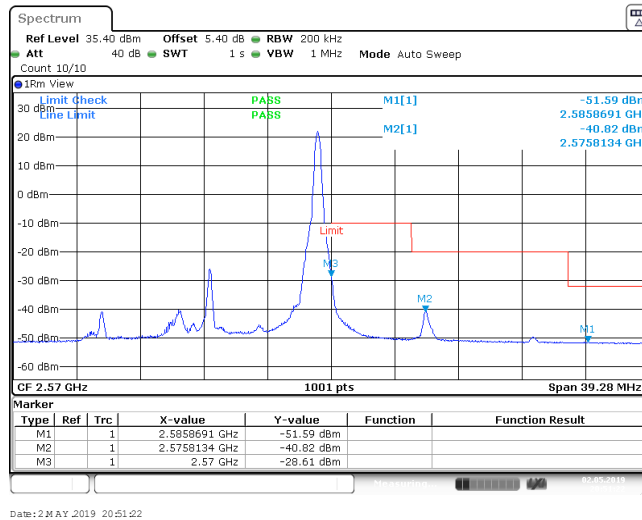


Date: 2 MAY 2019 20:51:00

Band7_15MHz_QPSK_21375_1RB#74

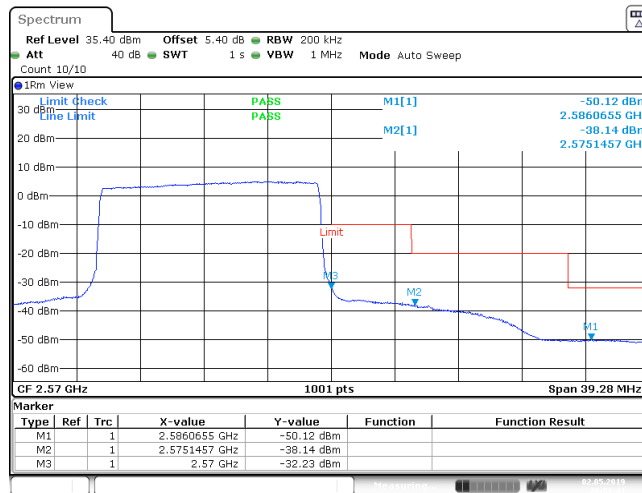


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Date: 2 MAY 2019 20:51:22

Band7_15MHz_QPSK_21375_75RB#0

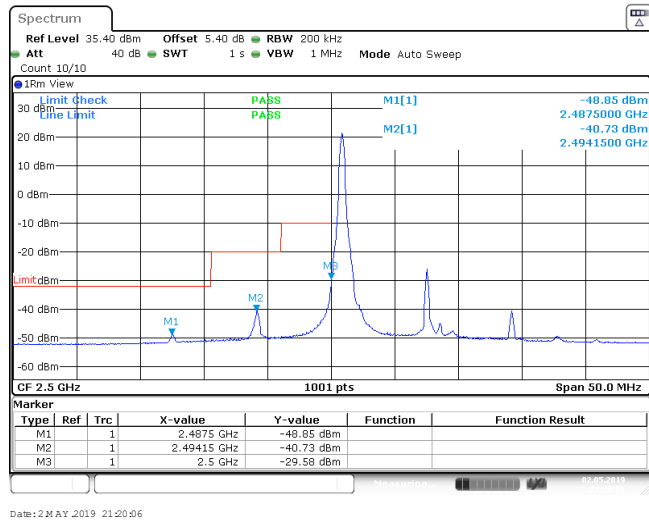


Date: 2 MAY 2019 20:51:42

Band7_15MHz_16QAM_20825_1RB#0

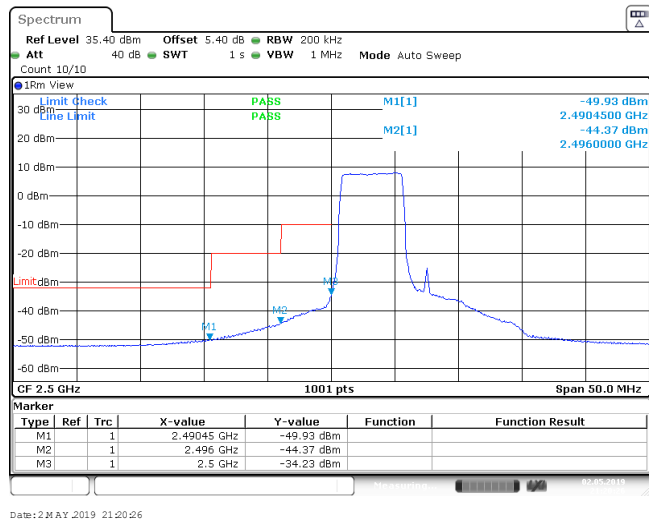


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Date: 2 MAY 2019 21:20:06

Band7_15MHz_16QAM_20825_27RB#0

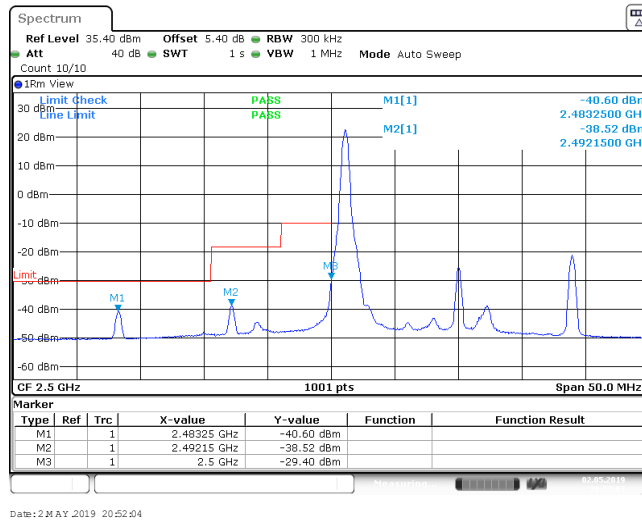


Date: 2 MAY 2019 21:20:26

Band7_20MHz_QPSK_20850_1RB#0

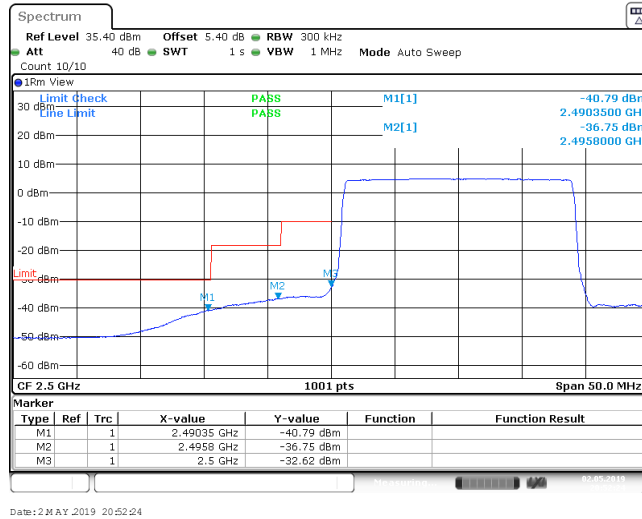


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Date: 2 MAY 2019 20:52:04

Band7_20MHz_QPSK_20850_100RB#0

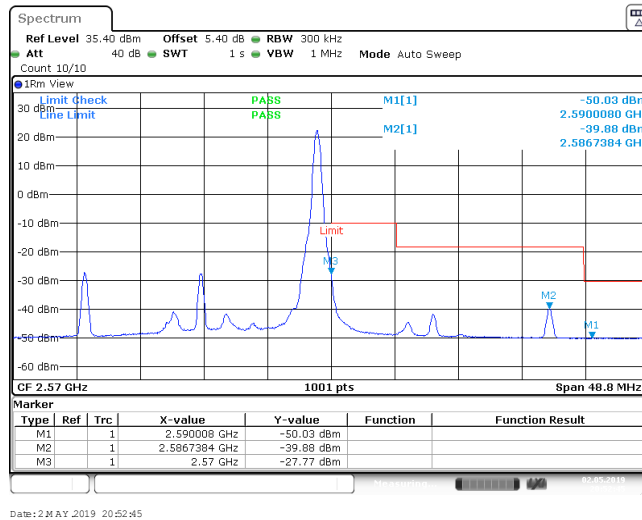


Date: 2 MAY 2019 20:52:24

Band7_20MHz_QPSK_21350_1RB#99

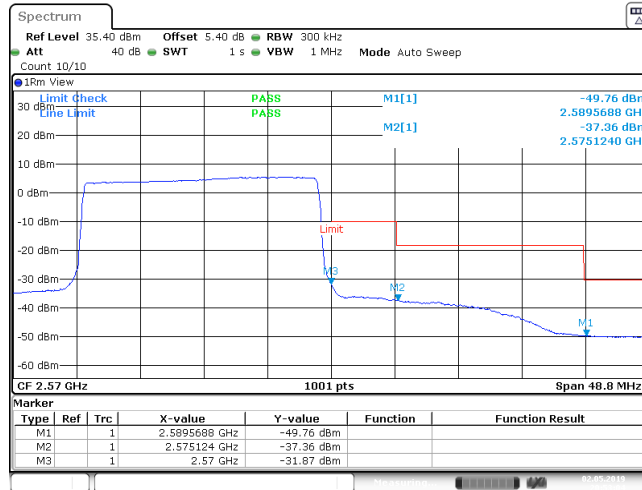


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Date: 2 MAY 2019 20:52:45

Band7_20MHz_QPSK_21350_100RB#0

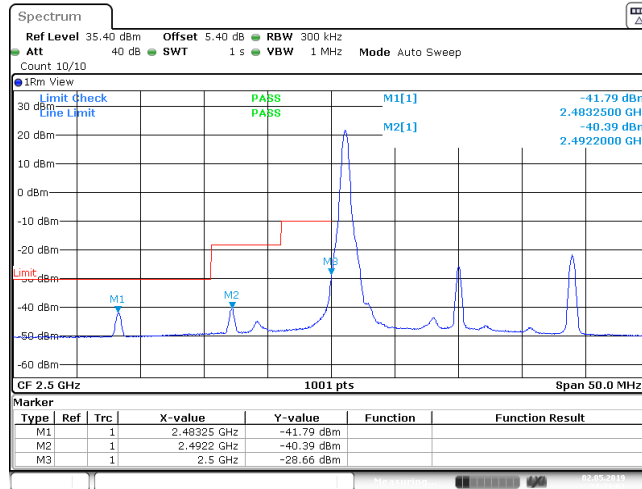


Date: 2 MAY 2019 20:53:05

Band7_20MHz_16QAM_20850_1RB#0

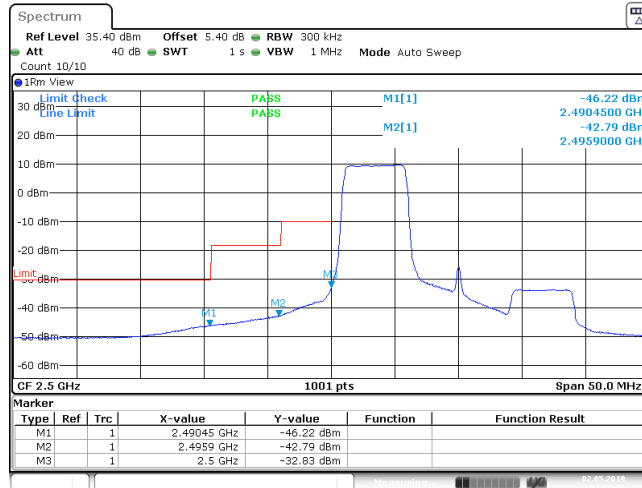


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Date: 2 MAY 2019 21:21:02

Band7_20MHz_16QAM_20850_27RB#0



Date: 2 MAY 2019 21:21:22



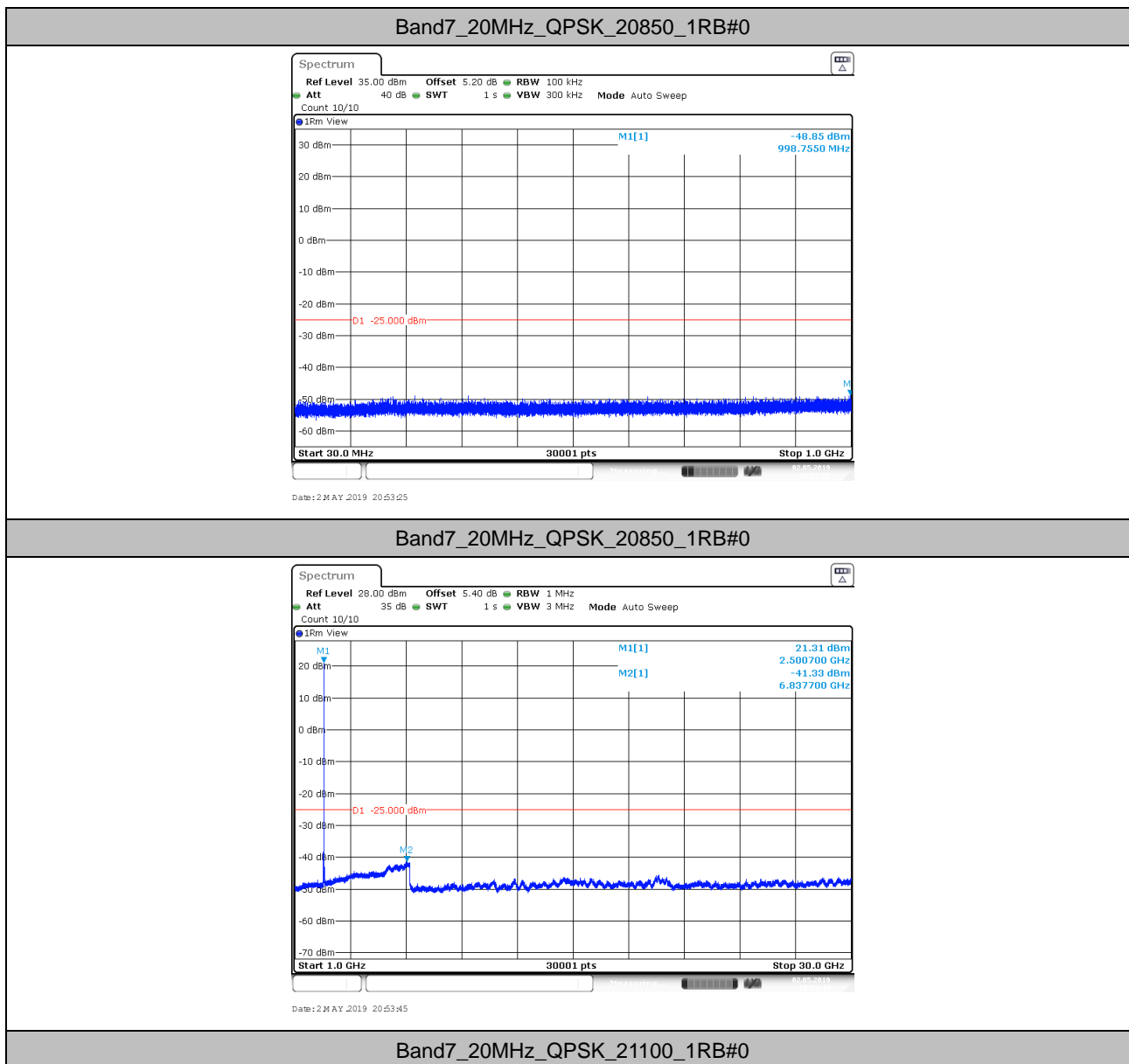
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6. Spurious Emission at Antenna Terminal

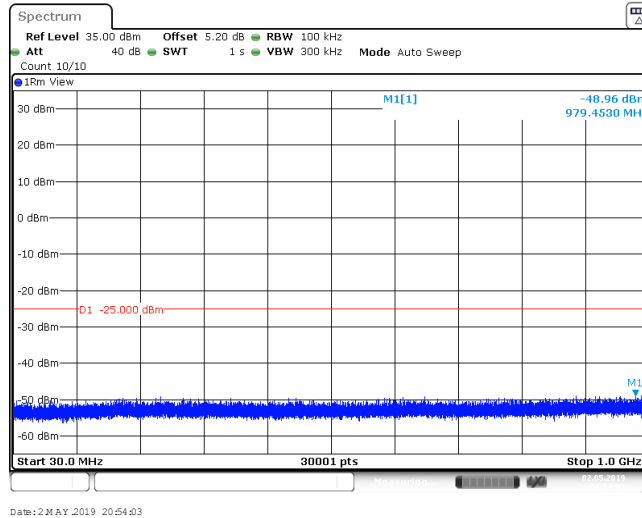
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

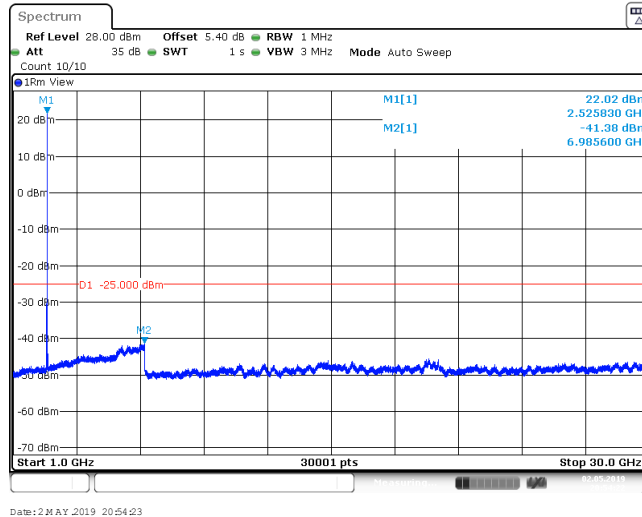
6.1. Test Plots



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Band7_20MHz_QPSK_21100_1RB#0

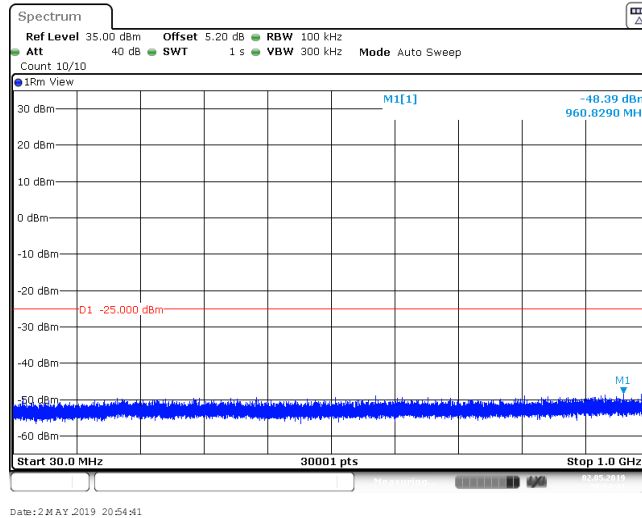


Band7_20MHz_QPSK_21350_1RB#0

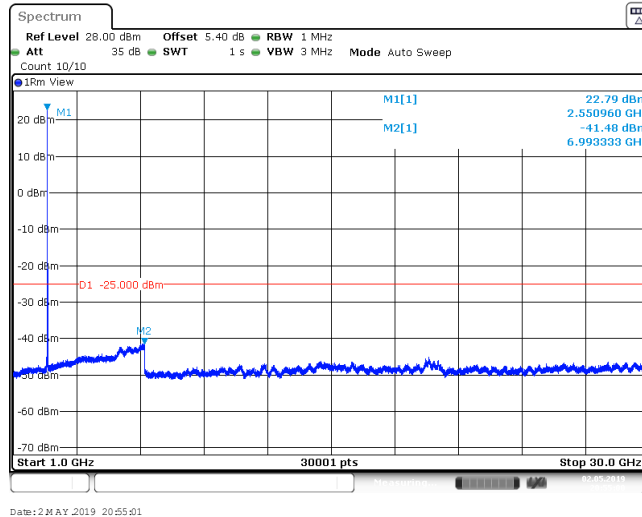


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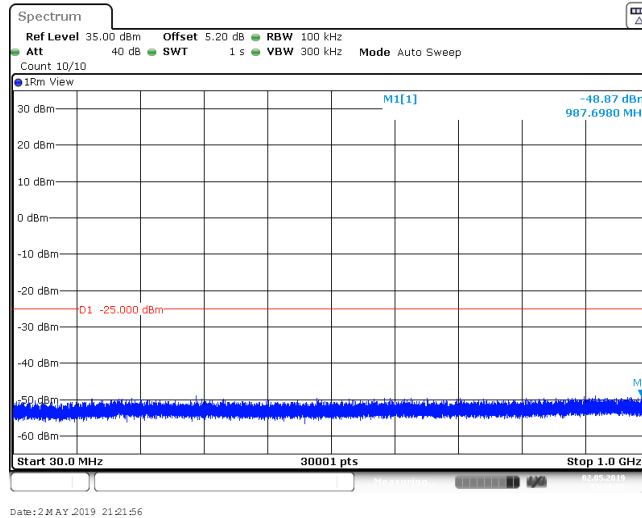
Band7_20MHz_QPSK_21350_1RB#0



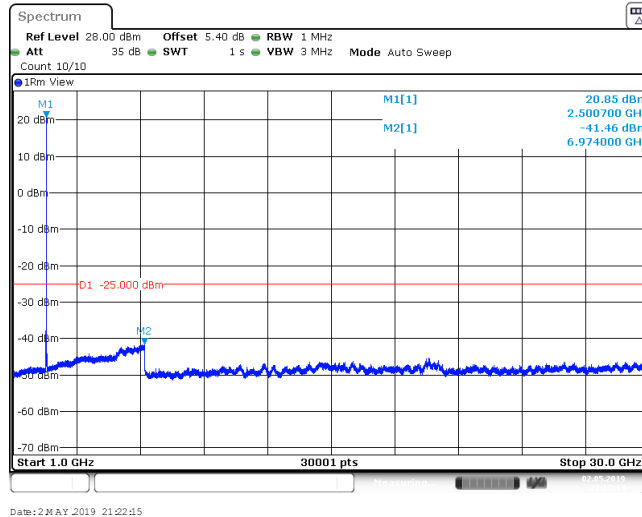
Band7_20MHz_16QAM_20850_1RB#0



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Band7_20MHz_16QAM_20850_1RB#0

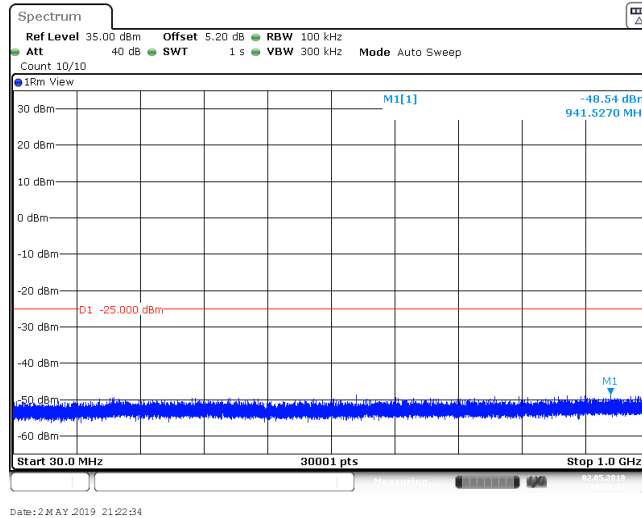


Band7_20MHz_16QAM_21100_1RB#0

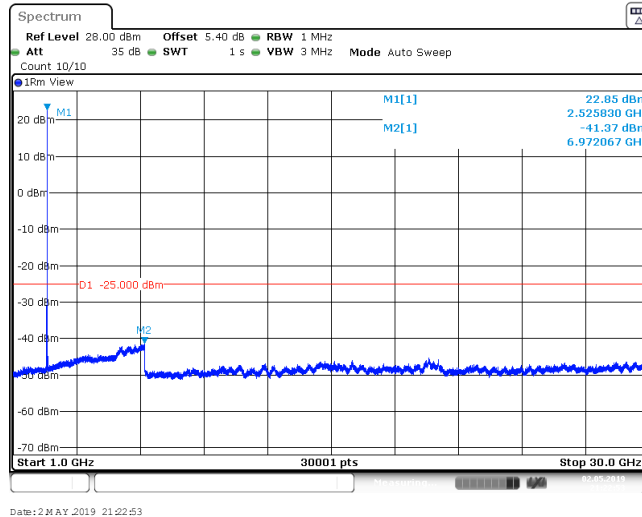


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Band7_20MHz_16QAM_21100_1RB#0

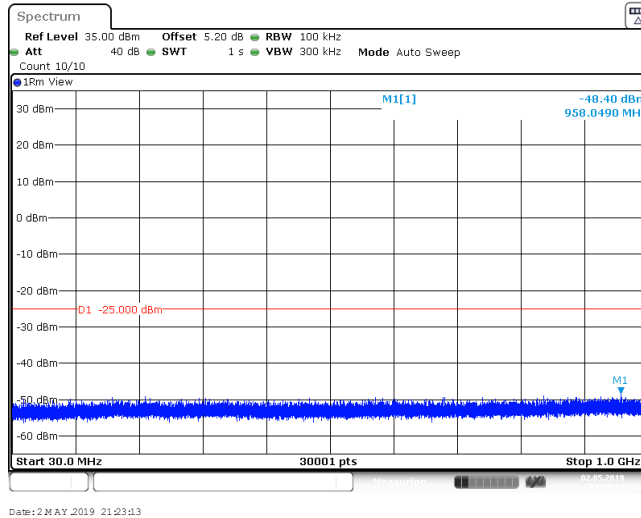


Band7_20MHz_16QAM_21350_1RB#0

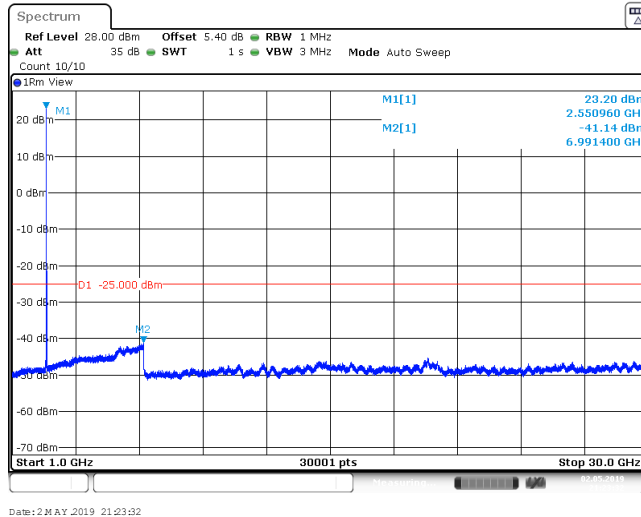


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Band7_20MHz_16QAM_21350_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 7

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
72.052	-66.04	-25	41.04	Vertical
112.4507	-64.27	-25	39.27	Vertical
665.6847	-61.32	-25	36.32	Vertical
5000.9371	-48.36	-25	23.36	Vertical
10006.913	-43.99	-25	18.99	Vertical
17993.355	-32.85	-25	7.85	Vertical
45.8907	-64.26	-25	39.26	Horizontal
151.4771	-63.59	-25	38.59	Horizontal
679.3864	-67.26	-25	42.26	Horizontal
4999.0461	-36.75	-25	11.75	Horizontal
16397.269	-47.79	-25	22.79	Horizontal
17986.436	-35.01	-25	10.01	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.39	-65.55	-25	40.55	Vertical
111.4321	-65.52	-25	40.52	Vertical
427.2953	-61.75	-25	36.75	Vertical
5050.7391	-49.24	-25	24.24	Vertical
10107.117	-43.64	-25	18.64	Vertical
17996.355	-36.45	-25	11.45	Vertical
42.5441	-63.98	-25	38.98	Horizontal
162.6812	-62.77	-25	37.77	Horizontal
635.8312	-66.39	-25	41.39	Horizontal
5048.8481	-36.91	-25	11.91	Horizontal
10011.814	-46.49	-25	21.49	Horizontal
16395.172	-35.92	-25	10.92	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
72.1975	-65.59	-25	40.59	Vertical
107.4064	-64.52	-25	39.52	Vertical
595.8897	-63.15	-25	38.15	Vertical
5100.5411	-48.59	-25	23.59	Vertical
10206.721	-43.94	-25	18.94	Vertical
17971.154	-34.546	-25	9.546	Vertical
43.2231	-65.2	-25	40.2	Horizontal
163.6027	-63.4	-25	38.4	Horizontal
610.3189	-67.53	-25	42.53	Horizontal
5098.6501	-36	-25	11	Horizontal
10203.221	-46.99	-25	21.99	Horizontal
17996.636	-34.57	-25	9.57	Horizontal

Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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	-8.80	-0.003506	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-17.10	-0.006813	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-9.40	-0.003745	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-8.30	-0.003274	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	6.70	0.002643	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	1.40	0.000552	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-5.60	-0.002188	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-5.80	-0.002266	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	1.40	0.000547	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	VL	NT	-16.10	-0.006414	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	VN	NT	-7.80	-0.003108	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	VH	NT	-15.70	-0.006255	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	VL	NT	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	VN	NT	6.30	0.002485	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	VH	NT	-8.70	-0.003432	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	VL	NT	3.20	0.001250	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	VN	NT	0.30	0.000117	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	VH	NT	4.00	0.001563	±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	-14.00	-0.005578	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-4.70	-0.001873	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-15.60	-0.006215	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-7.90	-0.003147	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-20.20	-0.008048	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-14.70	-0.005857	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-19.50	-0.007769	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-14.70	-0.005857	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-7.20	-0.002840	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	3.30	0.001302	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-5.60	-0.002209	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-5.80	-0.002288	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	3.00	0.001183	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	6.80	0.002682	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	1.50	0.000586	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-8.70	-0.003398	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	1.00	0.000391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-7.40	-0.002891	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	4.00	0.001563	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-2.10	-0.000820	±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	-1.20	-0.000469	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	-30	-2.40	-0.000956	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	-20	-12.10	-0.004821	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	0	-10.90	-0.004343	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	10	-21.30	-0.008486	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	20	-11.70	-0.004661	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	30	-14.10	-0.005618	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	40	-11.80	-0.004701	±2.5	PASS
Band7	20MHz	16QAM	20850	27RB#0	NV	50	-18.50	-0.007371	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	-30	-9.80	-0.003866	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	-20	6.00	0.002367	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	0	-0.50	-0.000197	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	10	-10.80	-0.004260	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	20	-0.90	-0.000355	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	30	-6.30	-0.002485	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	40	2.30	0.000907	±2.5	PASS
Band7	20MHz	16QAM	21100	27RB#0	NV	50	2.10	0.000828	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	-30	1.90	0.000742	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	-20	1.10	0.000430	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	0	-1.60	-0.000625	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	10	1.30	0.000508	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	20	1.80	0.000703	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	30	-1.30	-0.000508	±2.5	PASS



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Band7	20MHz	16QAM	21350	27RB#0	NV	40	-2.10	-0.000820	±2.5	PASS
Band7	20MHz	16QAM	21350	27RB#0	NV	50	-9.80	-0.003828	±2.5	PASS

The End



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