



Appendix B

E-UTRA Band 41



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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
Band41	5MHz	QPSK	39675	1RB#0	22.78	26.78	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.00	27.00	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.60	26.60	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.75	25.75	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.72	25.72	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.29	25.29	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.75	25.75	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.70	26.70	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.67	26.67	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.56	26.56	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	21.69	25.69	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	21.66	25.66	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.52	25.52	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.68	25.68	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.77	26.77	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.77	26.77	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.69	26.69	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	21.82	25.82	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	21.90	25.90	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	21.86	25.86	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.82	25.82	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.09	26.09	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.42	26.42	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.85	25.85	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.86	24.86	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.76	24.76	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.71	24.71	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.78	24.78	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.86	25.86	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.83	25.83	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.78	25.78	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.72	24.72	33.00	PASS



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Band41	5MHz	16QAM	40620	12RB#6	20.71	24.71	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.63	24.63	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.65	24.65	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.04	26.04	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.08	26.08	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.99	25.99	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	20.90	24.90	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	20.98	24.98	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	20.89	24.89	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.88	24.88	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.62	26.62	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.82	26.82	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.55	26.55	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.95	25.95	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.96	25.96	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.84	25.84	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.79	25.79	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.52	26.52	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.50	26.50	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.22	26.22	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	21.49	25.49	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.62	25.62	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.49	25.49	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.52	25.52	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.50	26.50	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.56	26.56	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.45	26.45	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	21.64	25.64	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	21.74	25.74	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	21.72	25.72	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.71	25.71	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.05	26.05	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.00	26.00	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.93	25.93	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.98	24.98	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	21.03	25.03	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.84	24.84	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.93	24.93	33.00	PASS



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Band41	10MHz	16QAM	40620	1RB#0	21.66	25.66	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.72	25.72	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.67	25.67	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.49	24.49	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	20.61	24.61	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.52	24.52	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.59	24.59	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.79	25.79	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.78	25.78	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.84	25.84	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	20.73	24.73	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	20.80	24.80	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	20.83	24.83	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.73	24.73	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.18	26.18	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.33	26.33	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.00	26.00	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	21.68	25.68	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	21.73	25.73	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	21.82	25.82	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.73	25.73	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.11	26.11	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.27	26.27	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	21.90	25.90	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	21.40	25.40	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	21.62	25.62	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	21.57	25.57	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.60	25.60	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.08	26.08	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.36	26.36	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	21.83	25.83	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	21.57	25.57	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	21.66	25.66	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	21.72	25.72	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.56	25.56	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.51	25.51	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.72	25.72	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.24	25.24	33.00	PASS



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Band41	15MHz	16QAM	39725	36RB#0	20.78	24.78	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	20.82	24.82	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	20.89	24.89	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.73	24.73	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.08	25.08	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.75	25.75	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.17	25.17	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	20.46	24.46	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	20.74	24.74	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	20.66	24.66	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.61	24.61	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.21	25.21	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.67	25.67	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.99	24.99	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	20.60	24.60	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	20.74	24.74	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	20.86	24.86	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.76	24.76	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.44	26.44	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.54	26.54	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	21.97	25.97	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.55	25.55	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.68	25.68	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.46	25.46	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.58	25.58	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.17	26.17	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.41	26.41	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	21.92	25.92	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	21.44	25.44	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	21.56	25.56	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	21.36	25.36	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.47	25.47	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	21.80	25.80	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.18	26.18	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	21.82	25.82	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.45	25.45	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.57	25.57	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	21.54	25.54	33.00	PASS



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Band41	20MHz	QPSK	41490	100RB#0	21.48	25.48	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.70	25.70	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.78	25.78	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.16	25.16	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.62	24.62	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.76	24.76	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.54	24.54	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.63	24.63	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.25	25.25	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.68	25.68	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.14	25.14	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.49	24.49	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.66	24.66	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.42	24.42	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.53	24.53	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	20.94	24.94	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.63	25.63	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.06	25.06	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	20.52	24.52	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	20.67	24.67	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	20.60	24.60	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.58	24.58	33.00	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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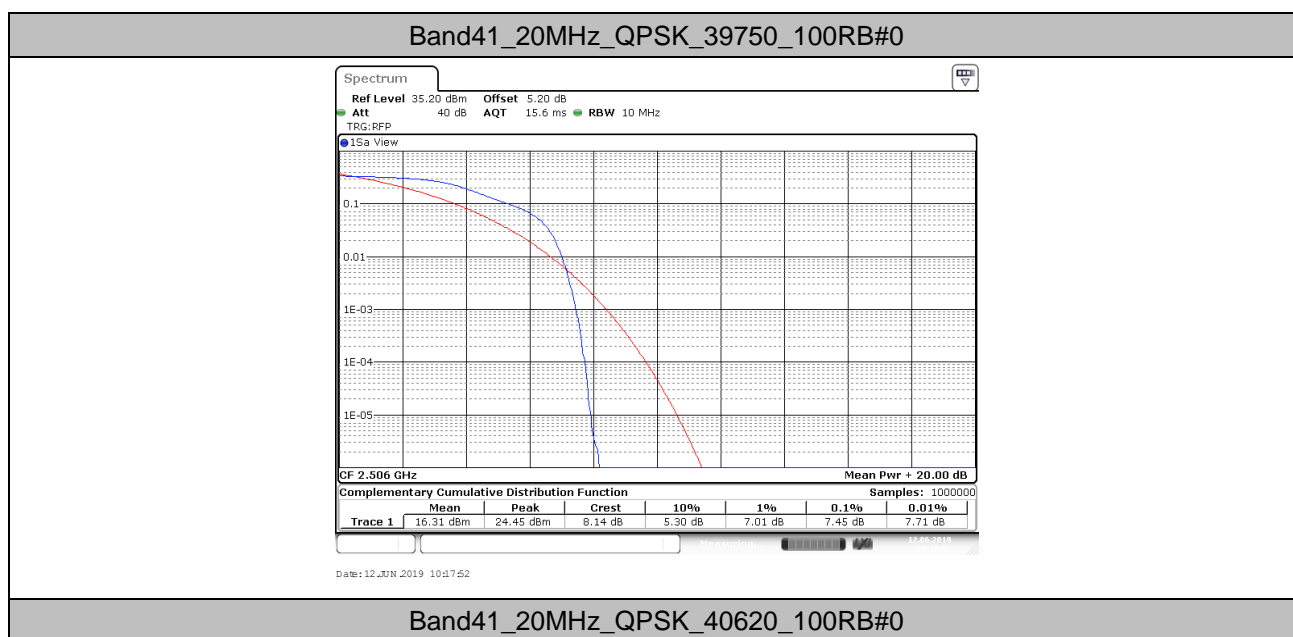
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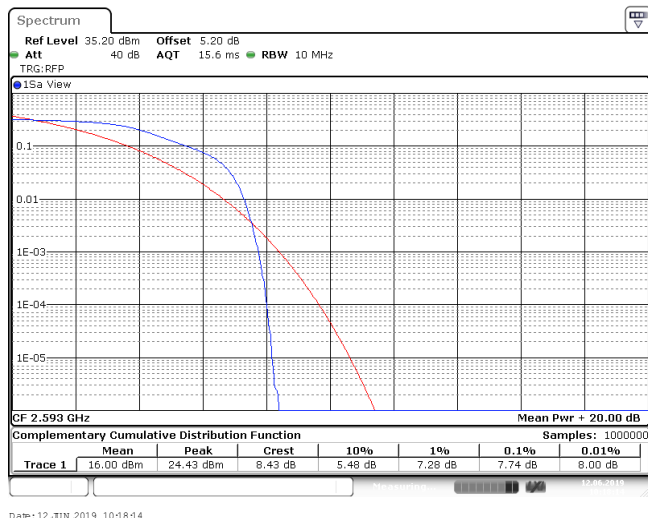
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

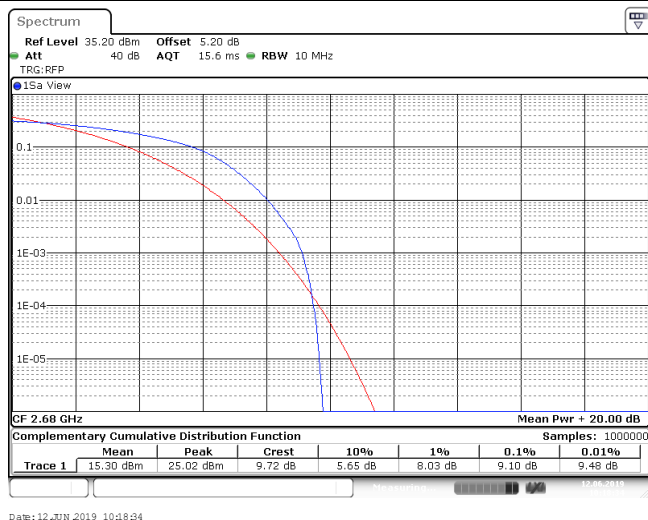
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.45	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.74	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.10	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.45	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.10	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.28	13	PASS

2.2. Test Plots



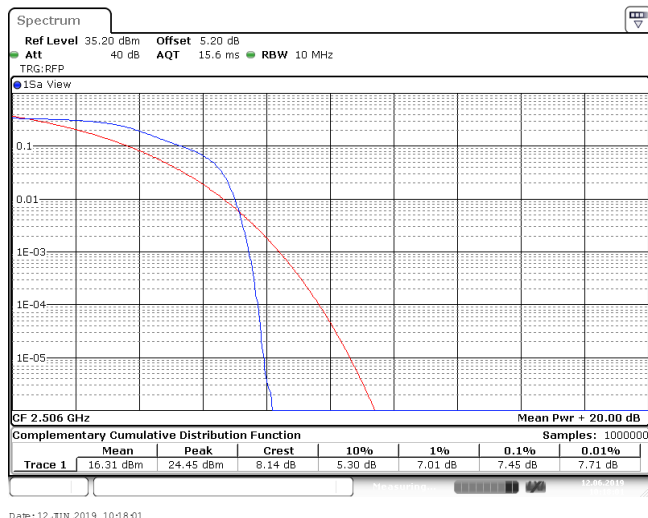


Band41_20MHz_QPSK_41490_100RB#0



Band41_20MHz_16QAM_39750_100RB#0



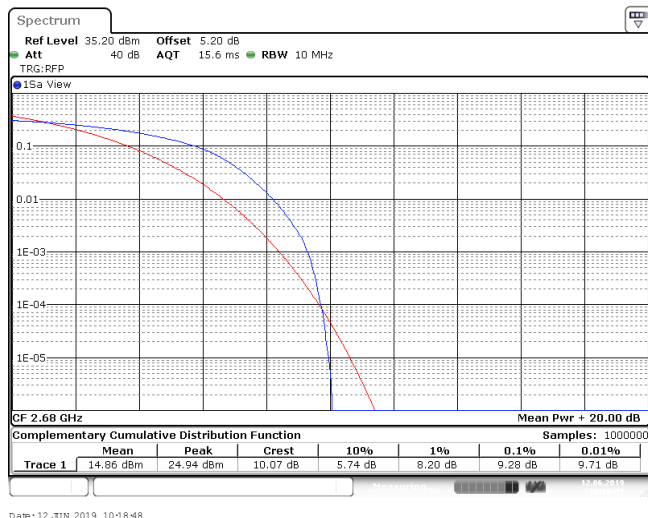


Band41_20MHz_16QAM_40620_100RB#0



Band41_20MHz_16QAM_41490_100RB#0





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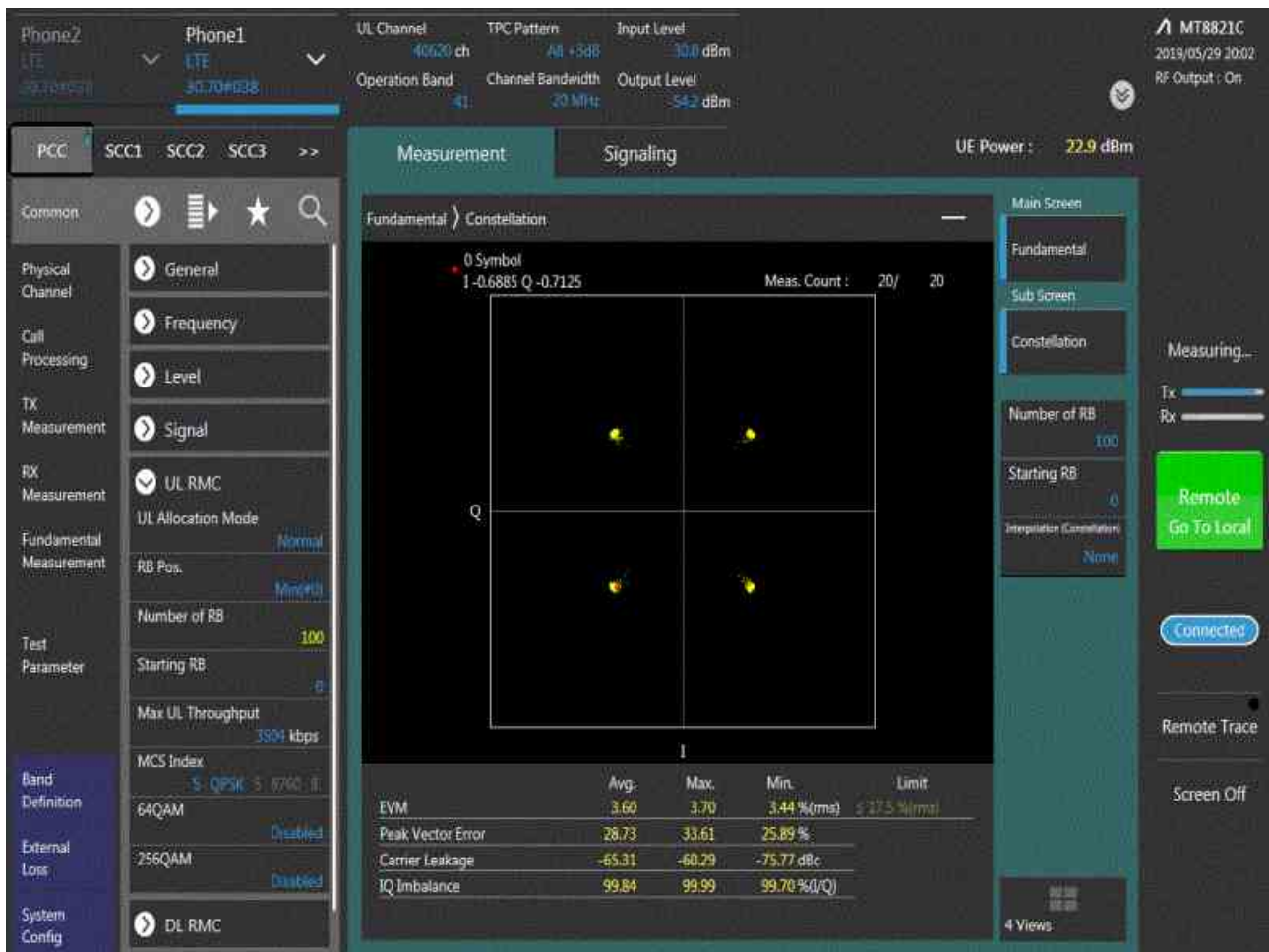
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 41

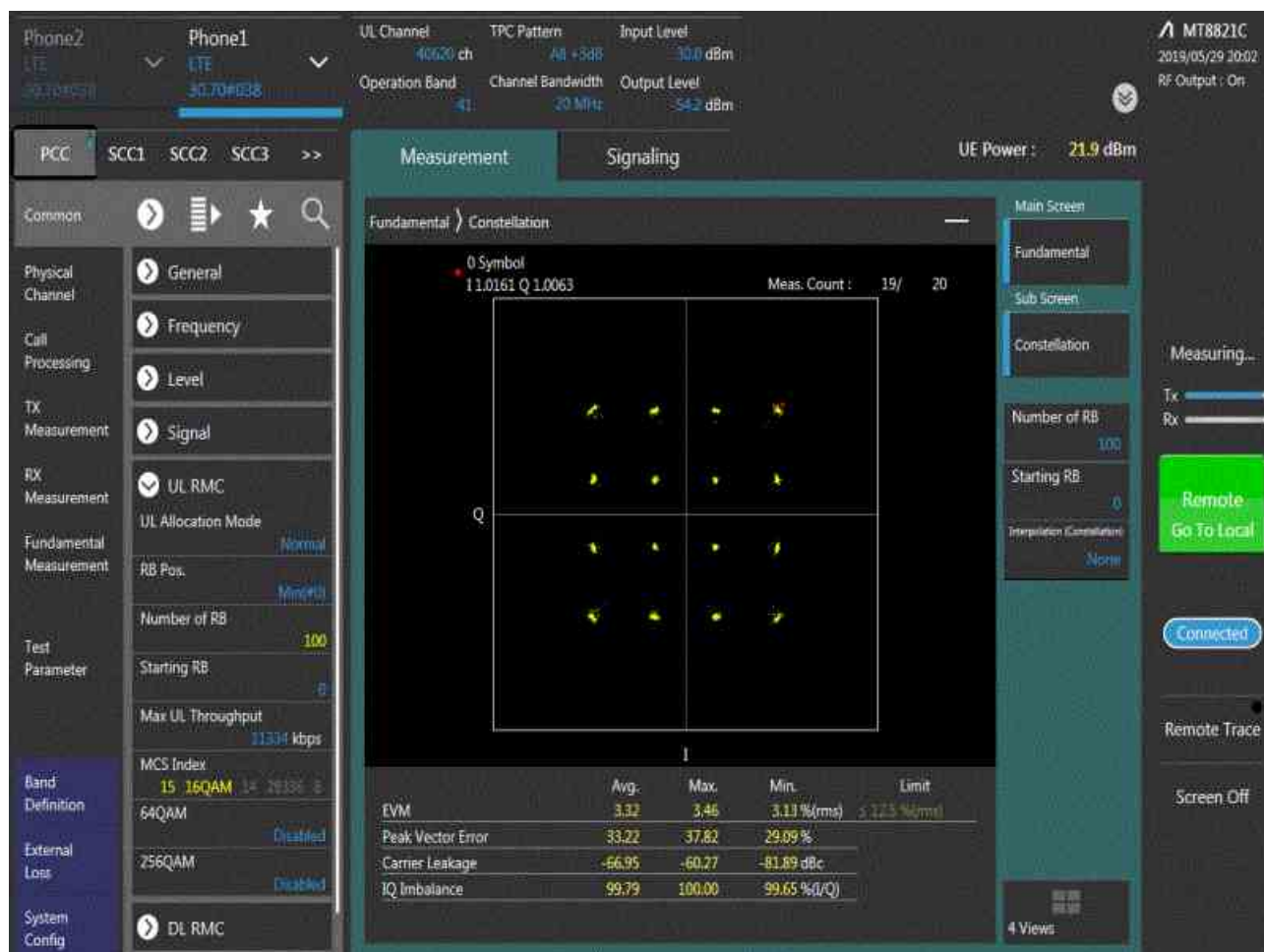
3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.466	4.900	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	4.900	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.466	4.980	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.496	4.970	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.496	4.840	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.476	4.930	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.911	9.680	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.891	9.740	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.720	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.720	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.680	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.840	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	15.420	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.457	15.510	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.457	15.750	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.457	15.180	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.457	15.630	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	15.510	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.942	19.800	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.840	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.942	19.880	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.862	19.360	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	19.320	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.902	19.320	PASS



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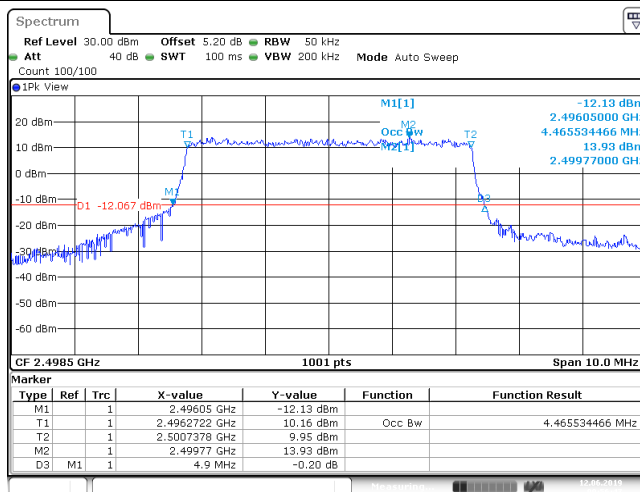
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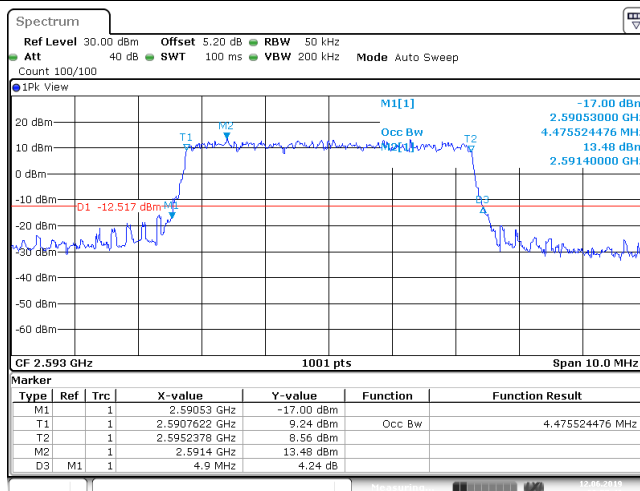
4.2. Test Plots

Band41_5MHz_QPSK_39675_25RB#0



Date: 12 JUN 2019 09:56:47

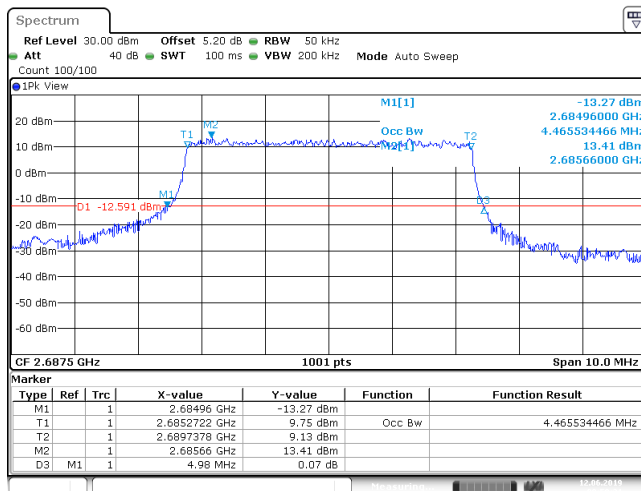
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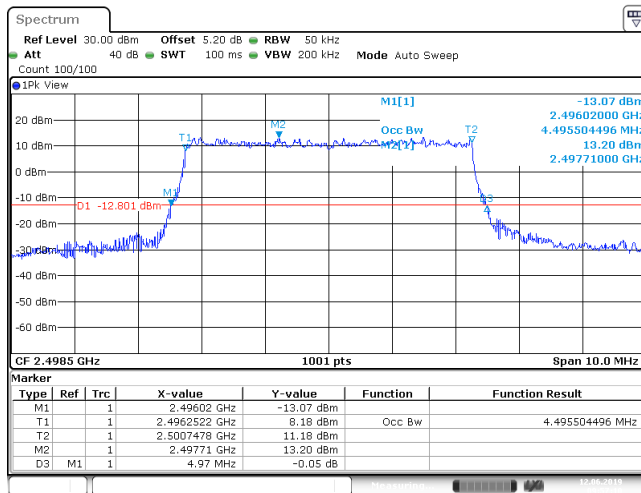
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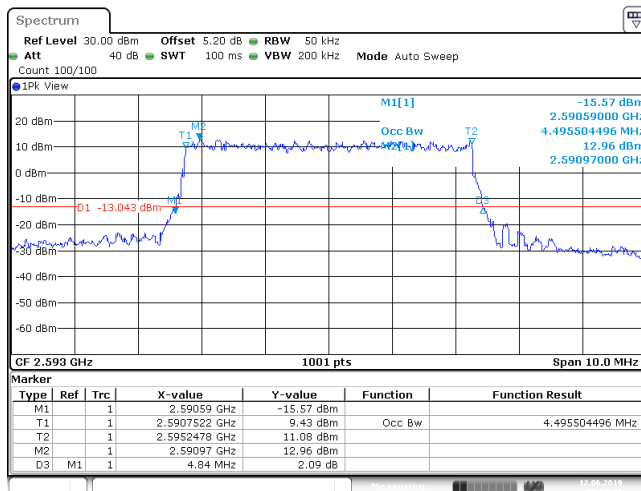
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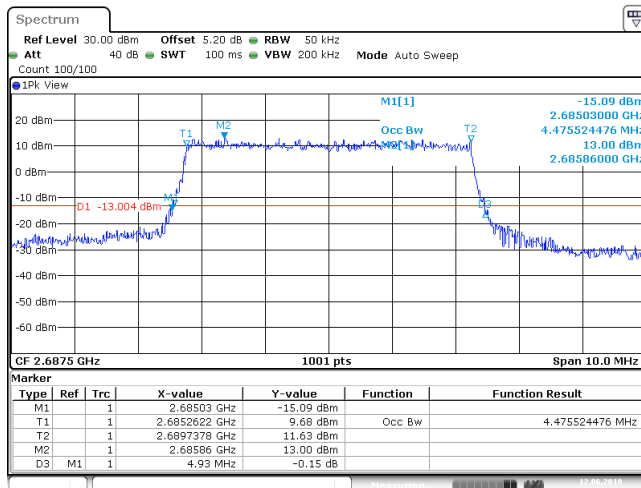
Band41_5MHz_16QAM_40620_25RB#0





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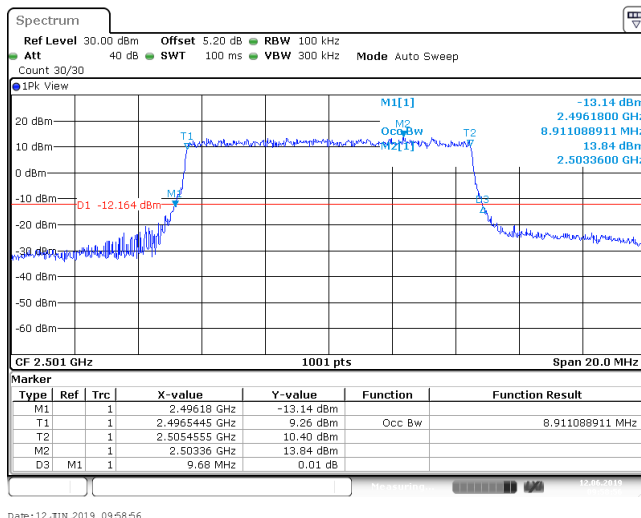
Band41_5MHz_16QAM_41565_25RB#0



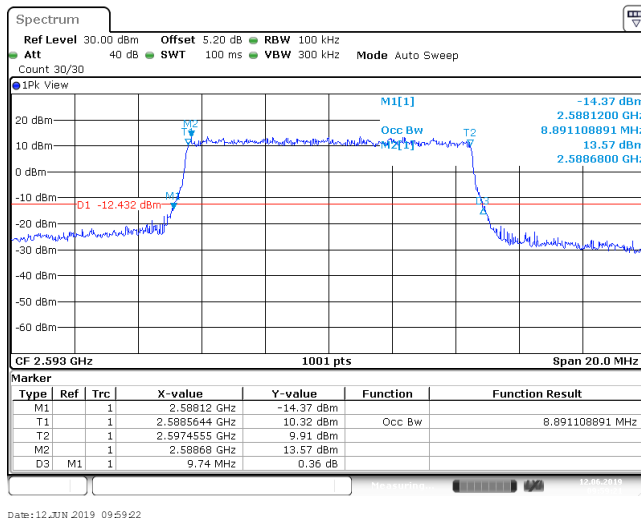
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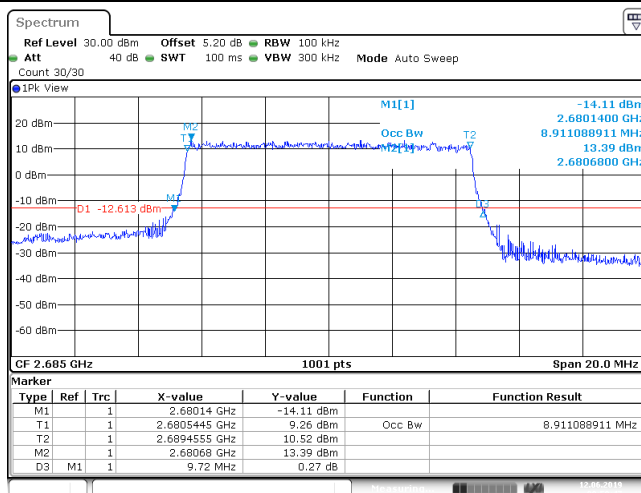


Band41_10MHz_QPSK_40620_50RB#0



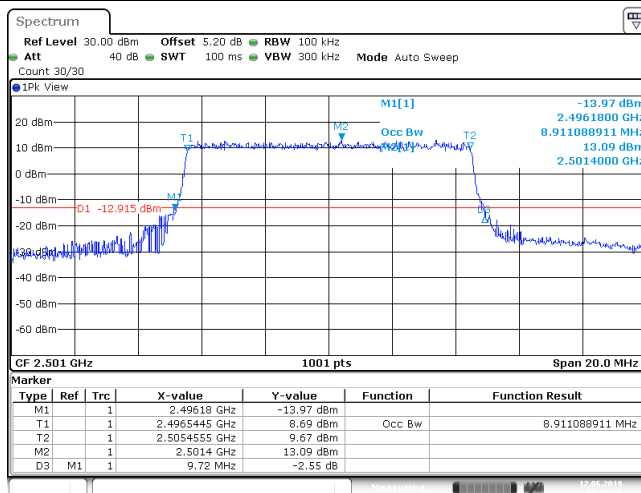
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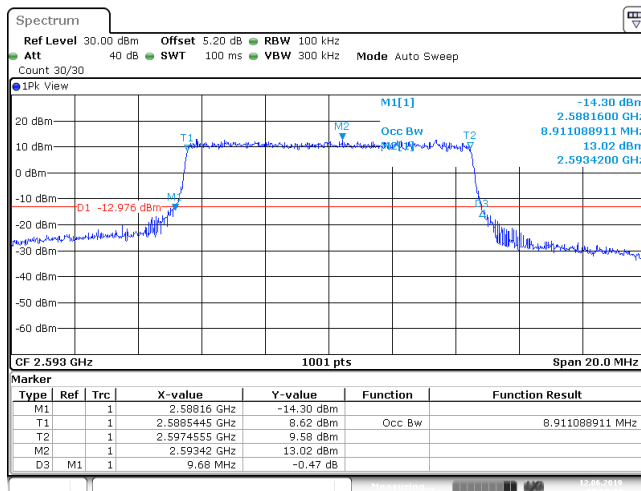
Band41_10MHz_16QAM_39700_50RB#0



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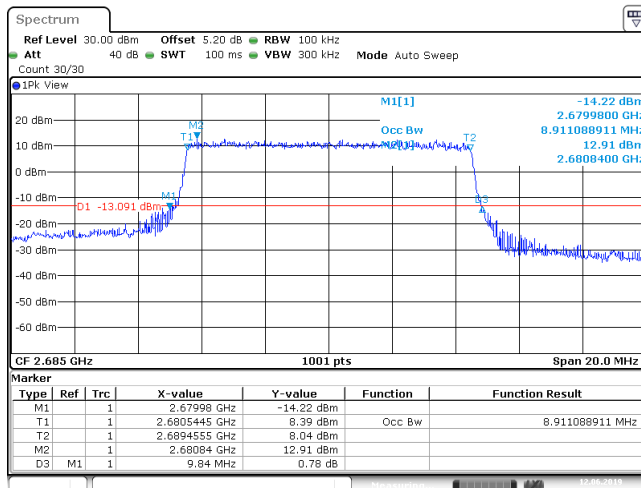
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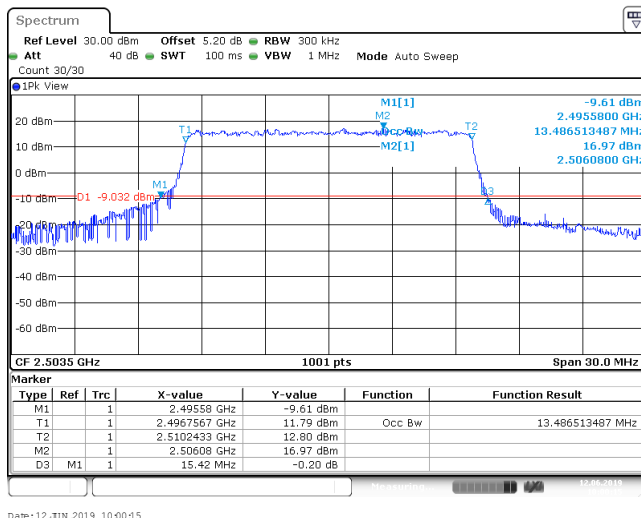
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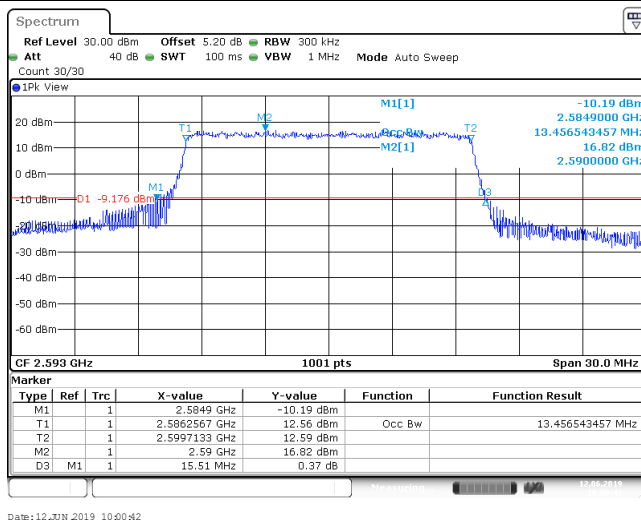
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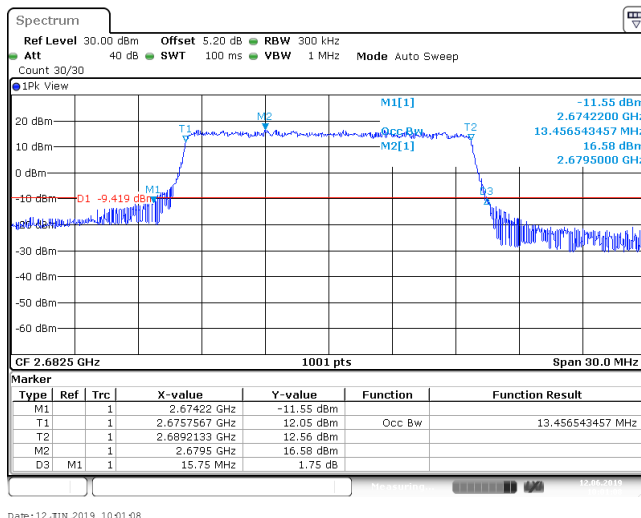


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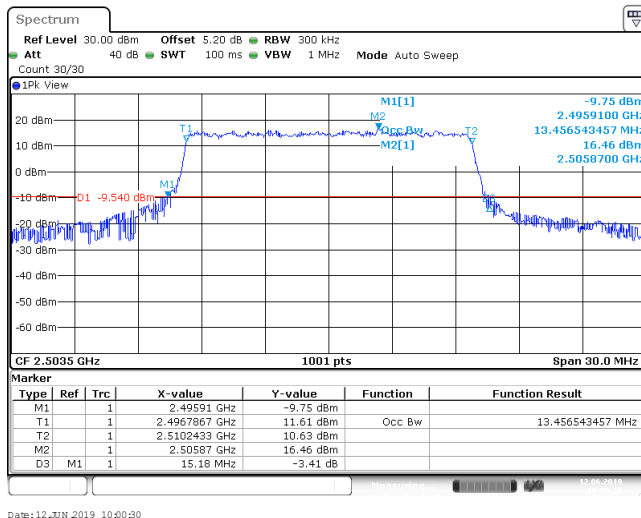


Band41_15MHz_QPSK_41515_75RB#0



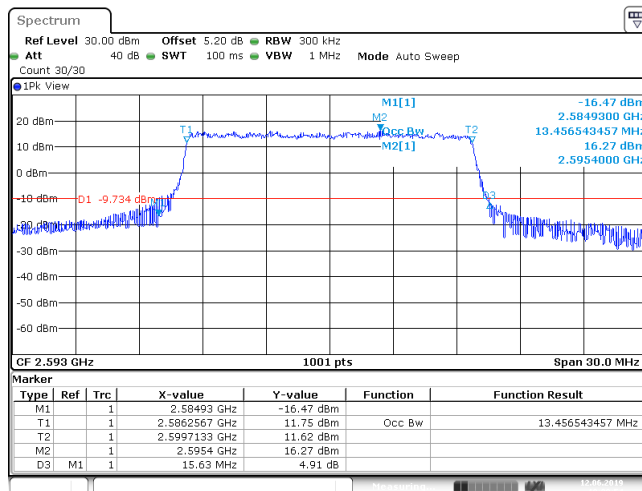


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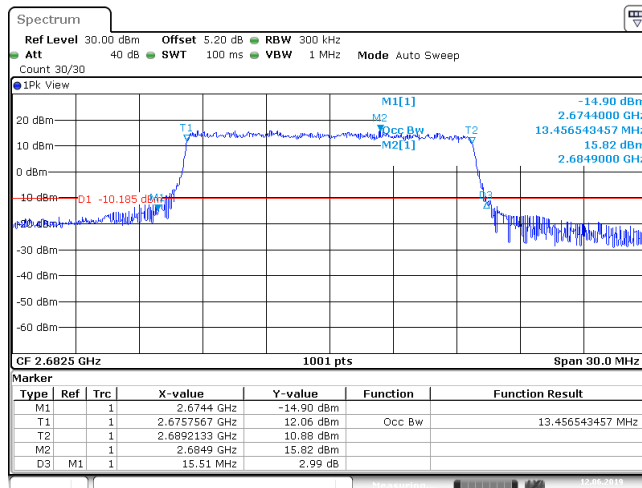
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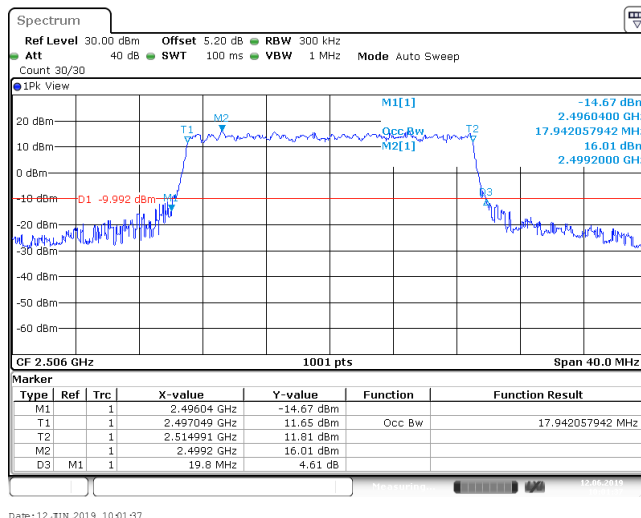
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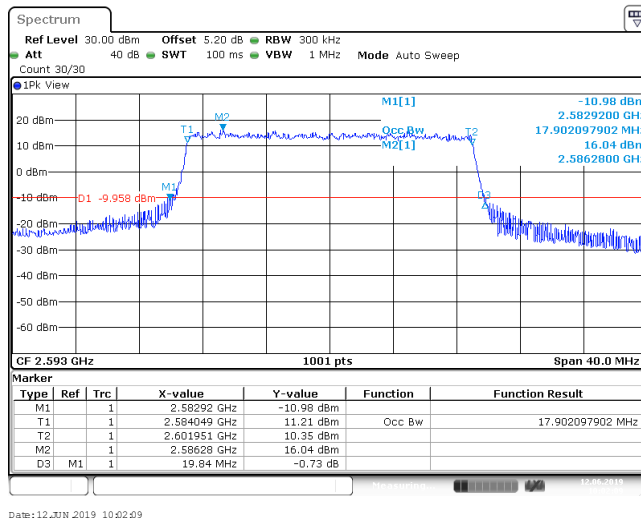
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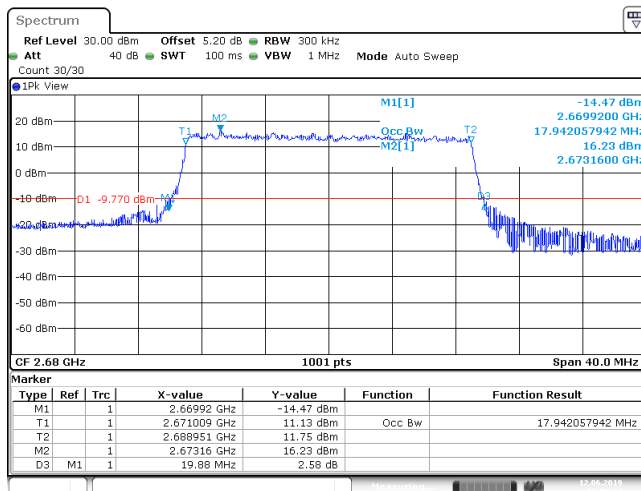
Band41_20MHz_QPSK_40620_100RB#0



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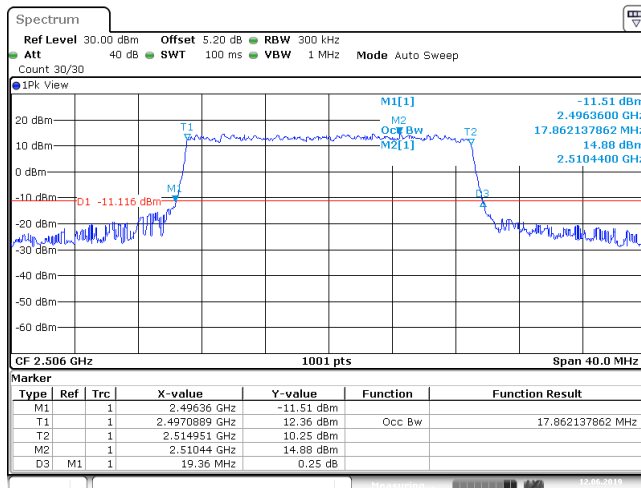
Band41_20MHz_QPSK_41490_100RB#0





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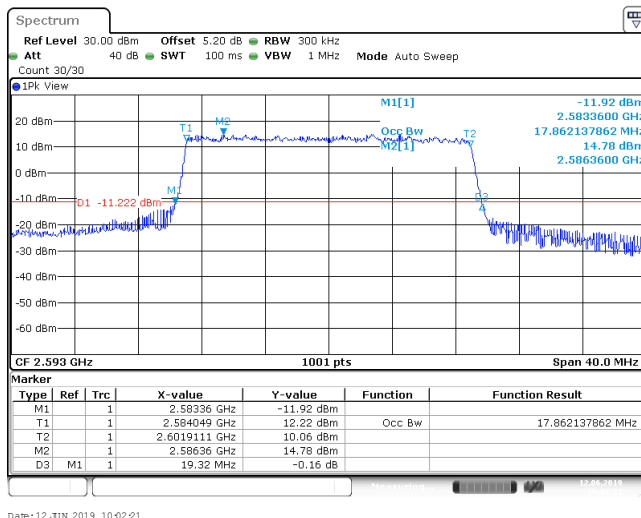
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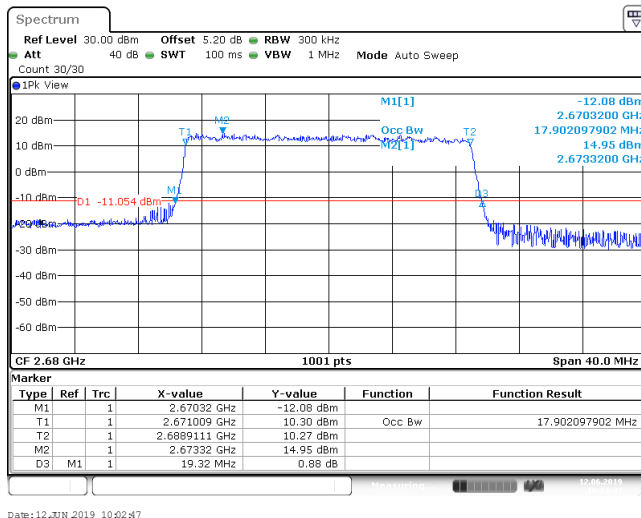
Band41_20MHz_16QAM_40620_100RB#0





Date: 12 JUN 2019 10:02:21

Band41_20MHz_16QAM_41490_100RB#0



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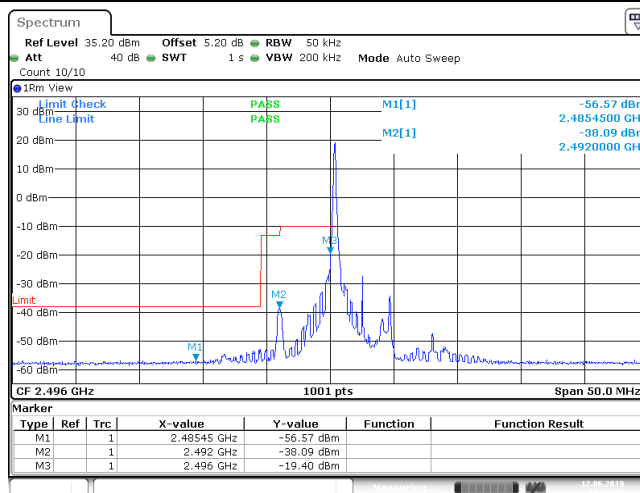
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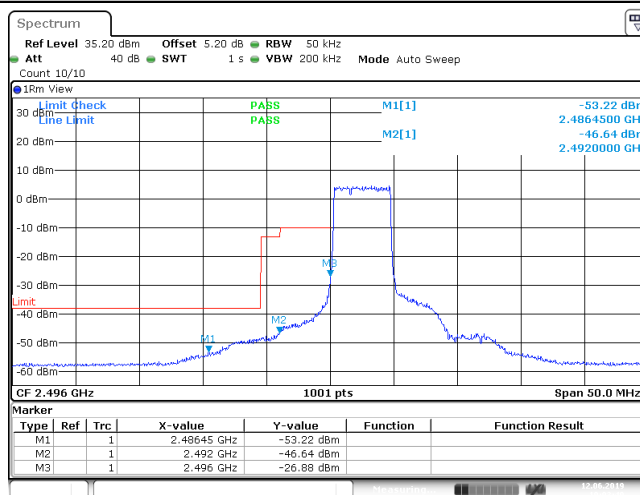
5. Band Edge Compliance

5.1. Test Plots

Band41_5MHz_QPSK_39675_1RB#0

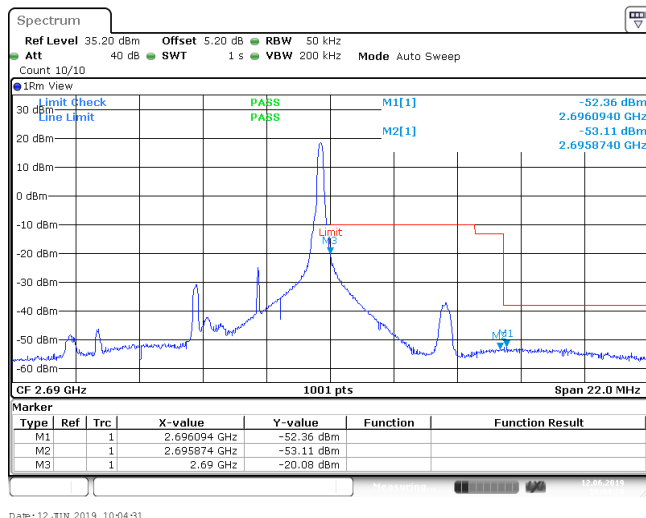


Band41_5MHz_QPSK_39675_25RB#0



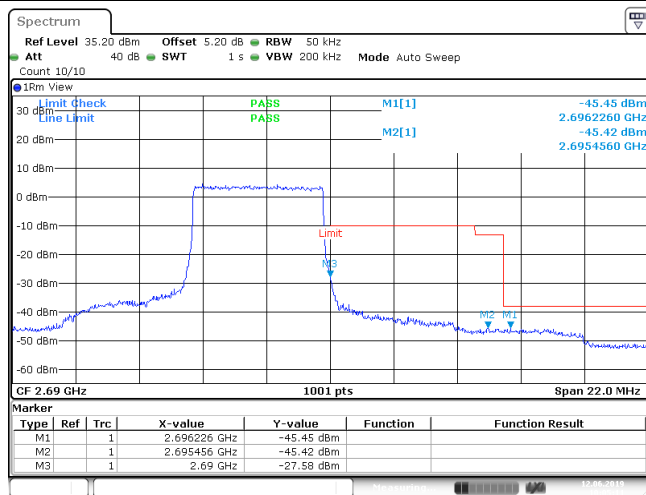
Band41_5MHz_QPSK_41565_1RB#24





Date: 12 JUN 2019 10:04:31

Band41_5MHz_QPSK_41565_25RB#0



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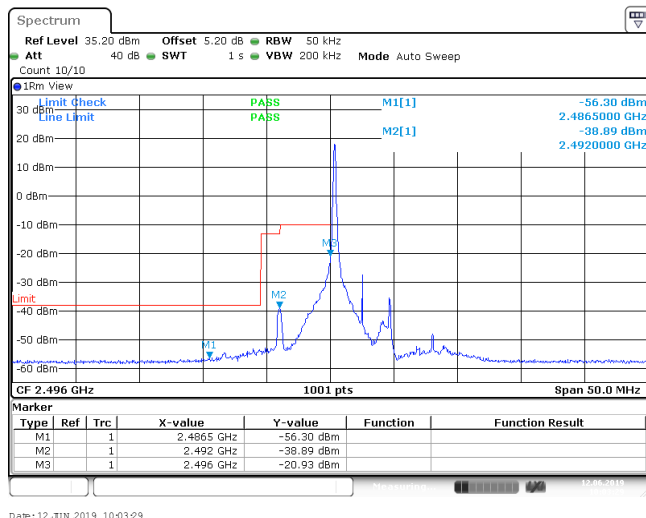
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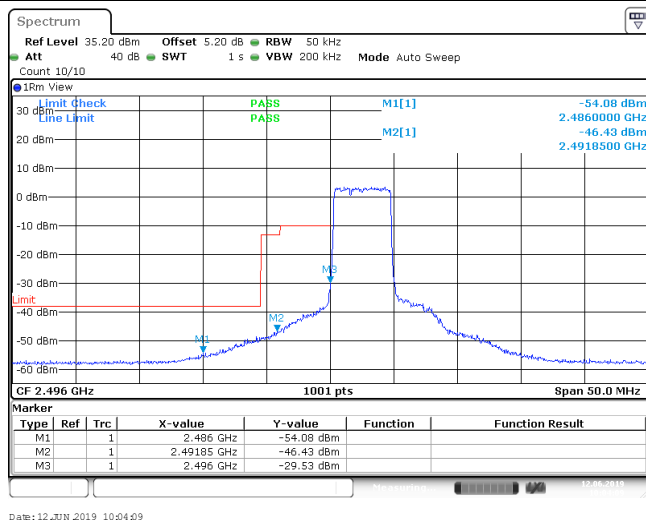
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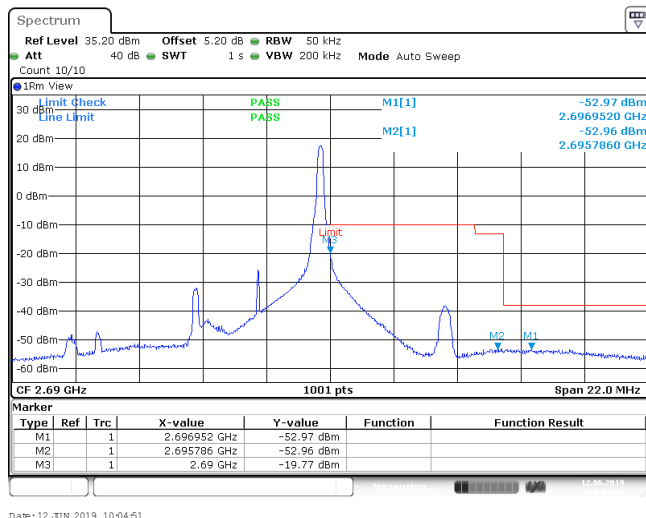


Band41_5MHz_16QAM_39675_25RB#0



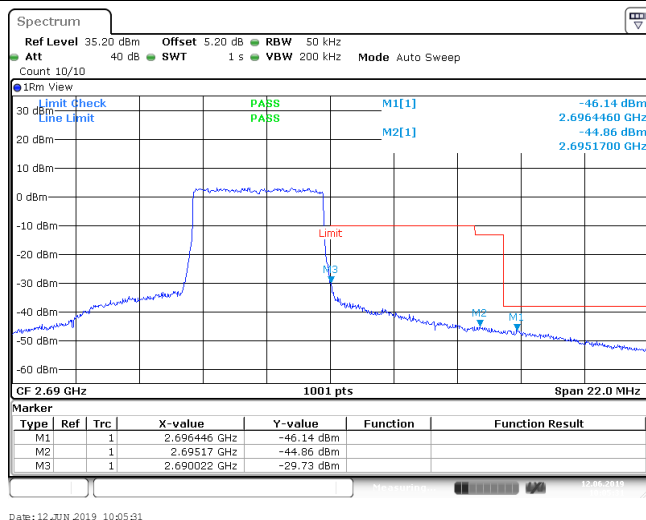
Band41_5MHz_16QAM_41565_1RB#24





Date: 12 JUN 2019 10:04:51

Band41_5MHz_16QAM_41565_25RB#0



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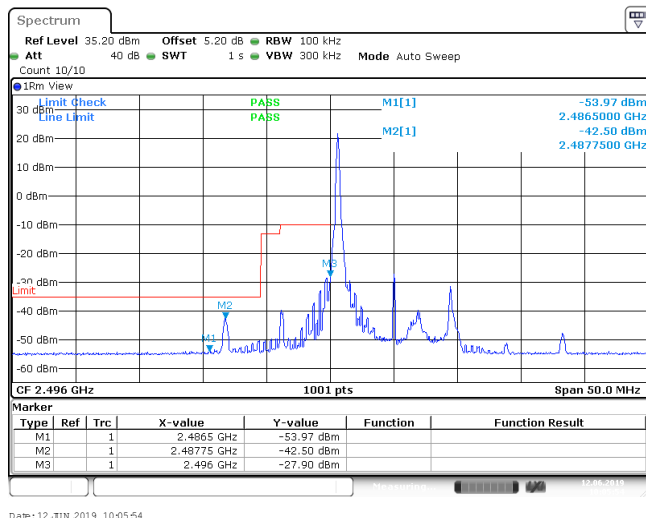
Band41_10MHz_QPSK_39700_1RB#0



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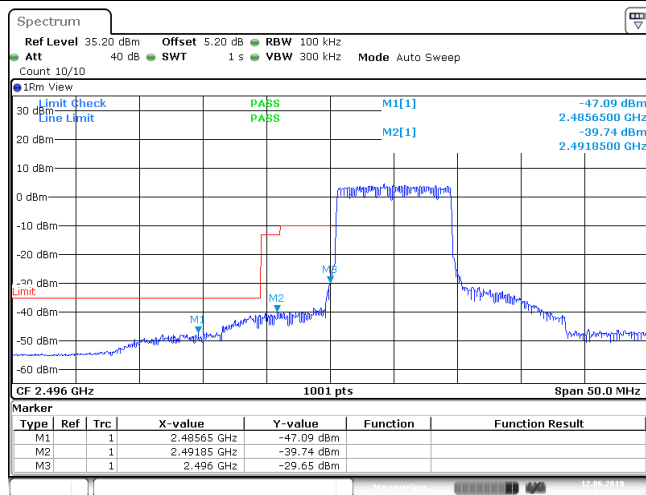
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Date: 12 JUN 2019 10:05:54

Band41_10MHz_QPSK_39700_50RB#0



Date: 12 JUN 2019 10:06:34

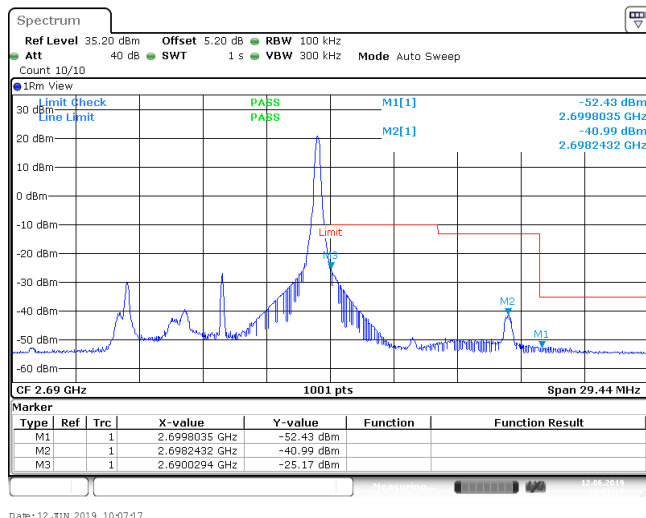
Band41_10MHz_QPSK_41540_1RB#49



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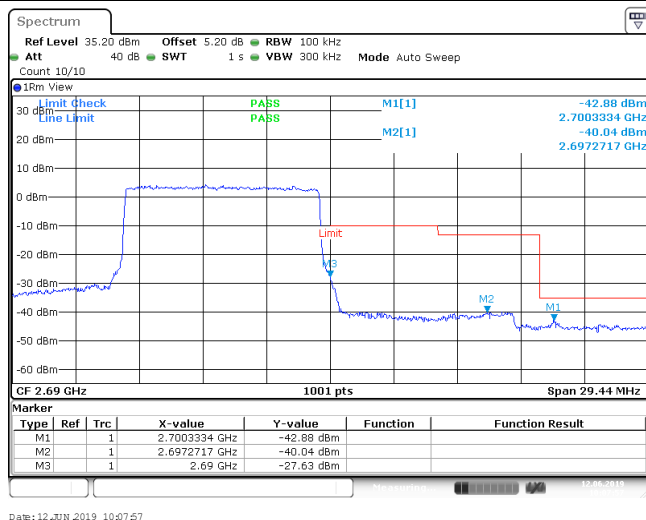
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Date: 12 JUN 2019 10:07:17

Band41_10MHz_QPSK_41540_50RB#0



Date: 12 JUN 2019 10:07:57

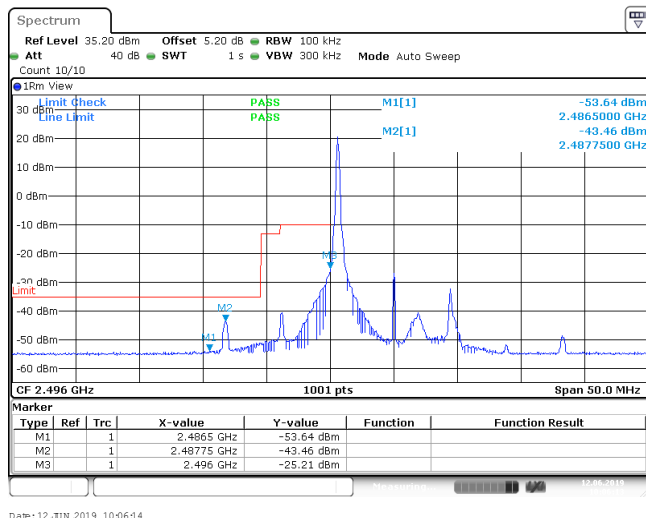
Band41_10MHz_16QAM_39700_1RB#0



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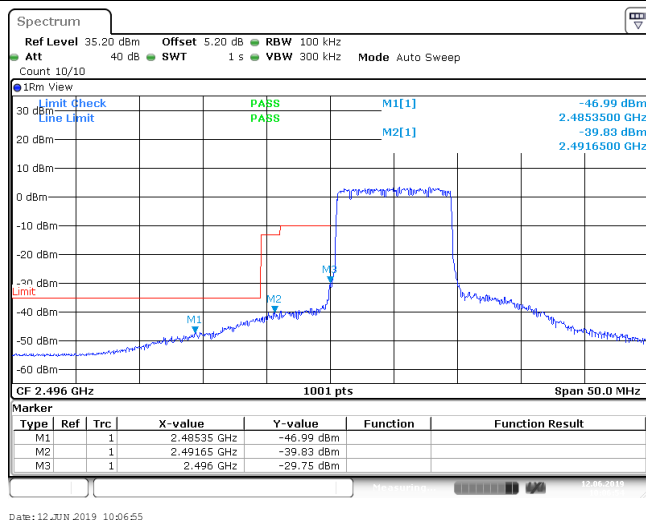
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Date: 12 JUN 2019 10:06:14

Band41_10MHz_16QAM_39700_50RB#0



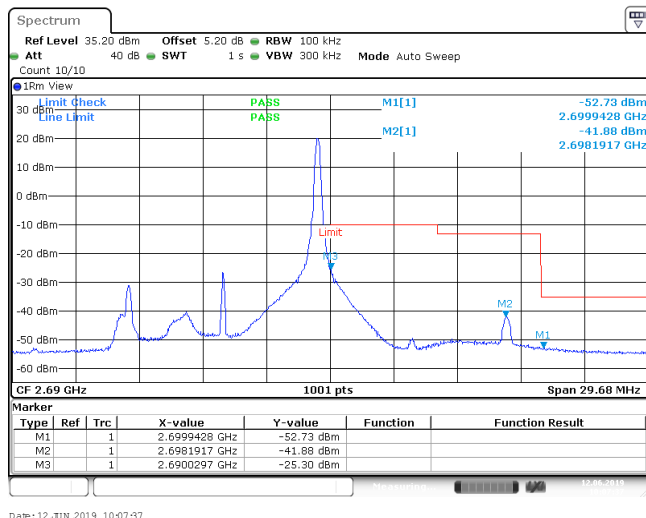
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Band41_10MHz_16QAM_41540_1RB#49

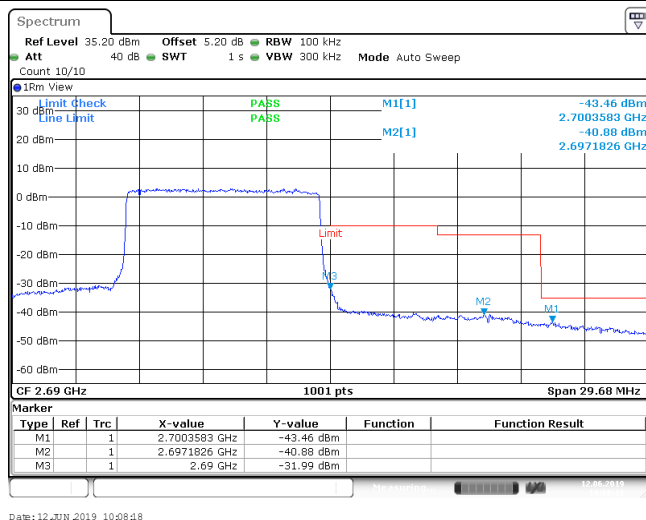


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Band41_10MHz_16QAM_41540_50RB#0

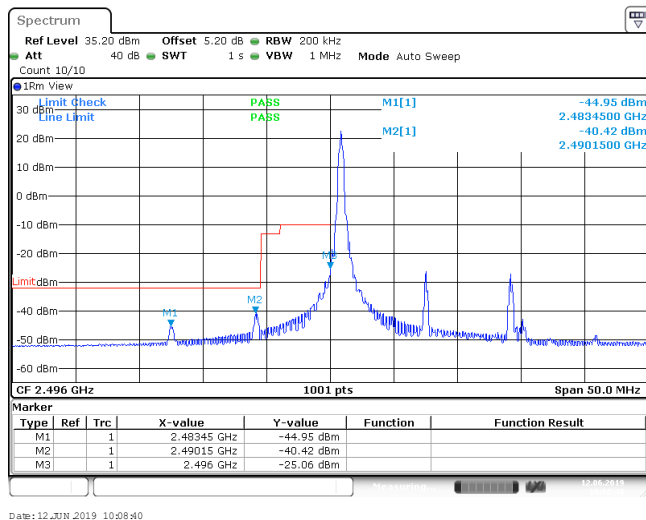


Band41_15MHz_QPSK_39725_1RB#0

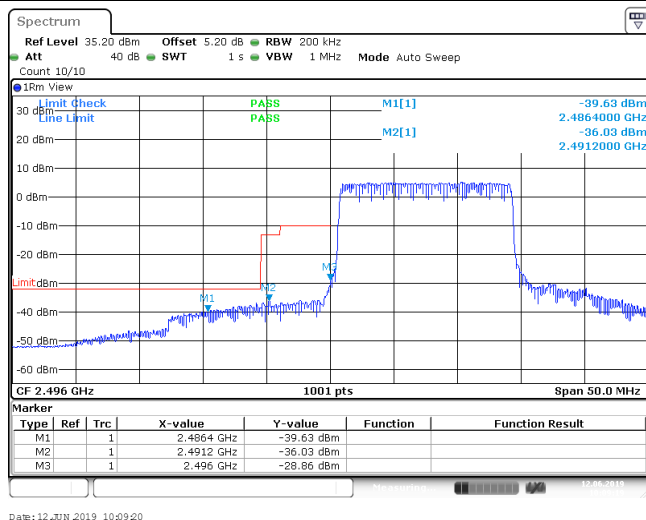


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Band41_15MHz_QPSK_39725_75RB#0

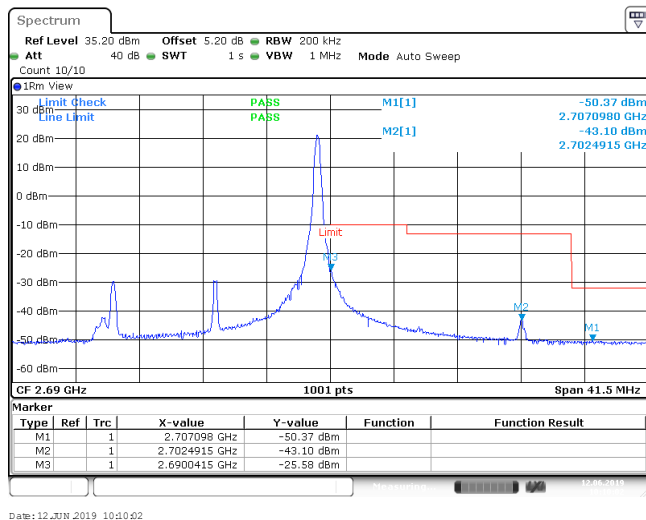


Band41_15MHz_QPSK_41515_1RB#74



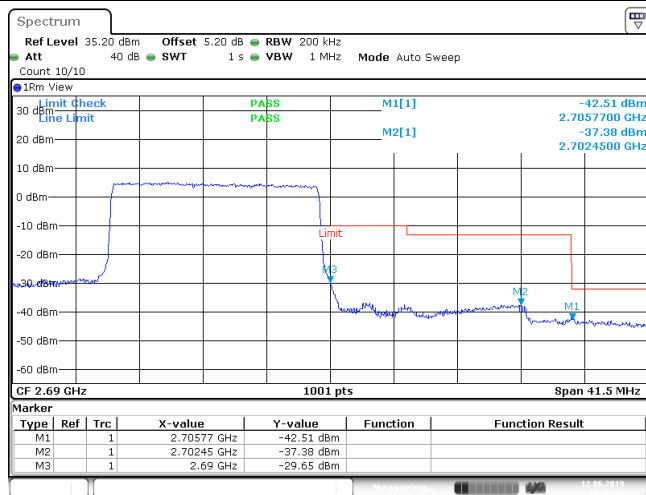
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Date: 12 JUN 2019 10:10:02

Band41_15MHz_QPSK_41515_75RB#0



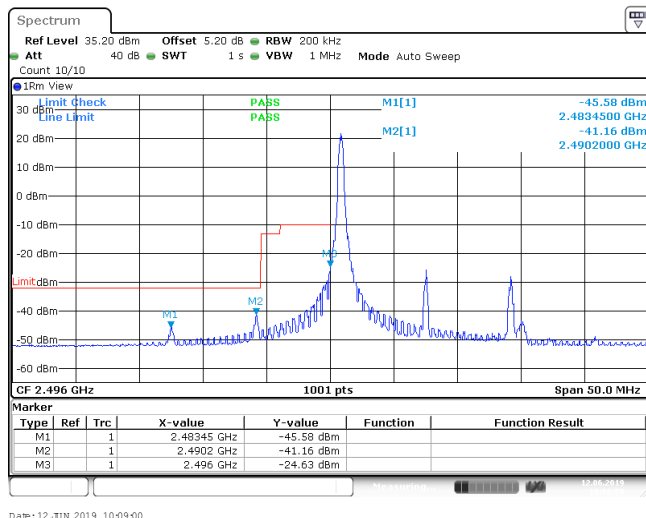
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Band41_15MHz_16QAM_39725_1RB#0



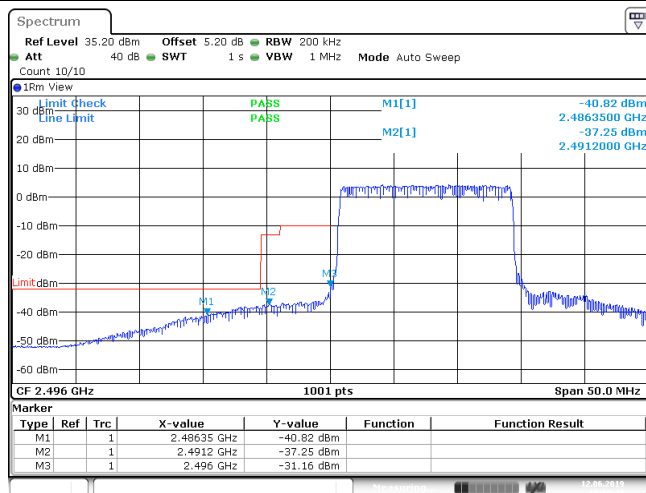
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Date: 12 JUN 2019 10:09:00

Band41_15MHz_16QAM_39725_75RB#0



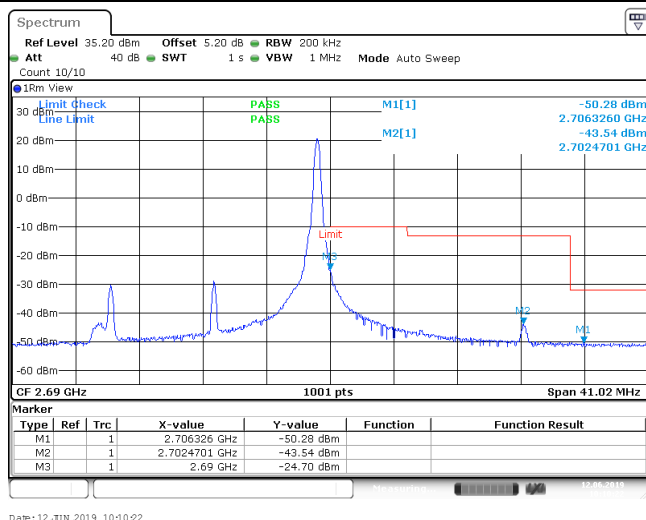
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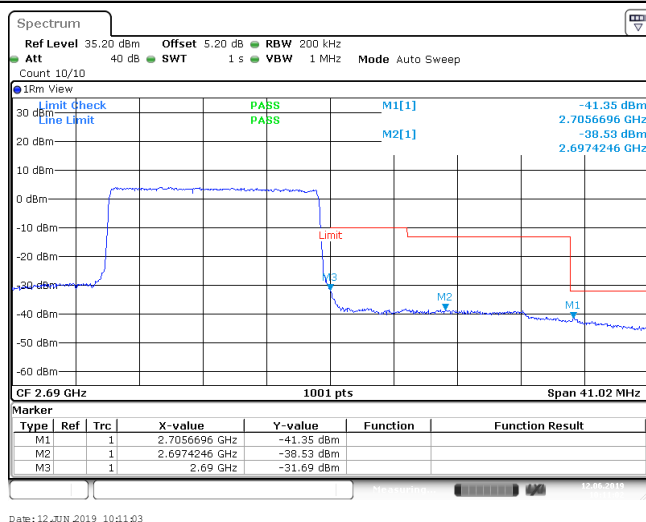


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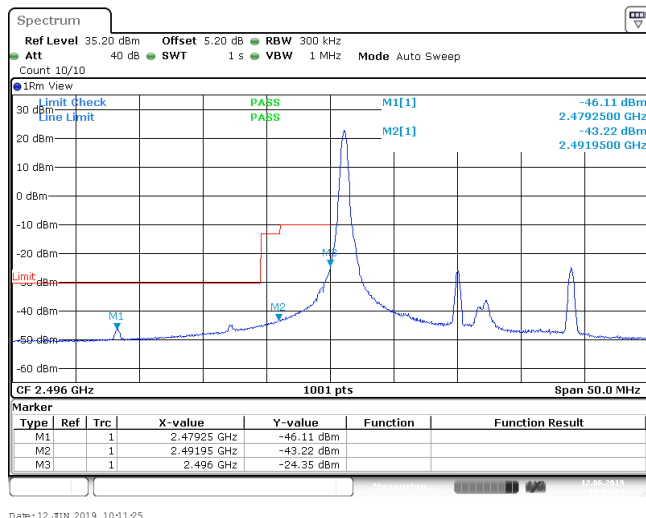


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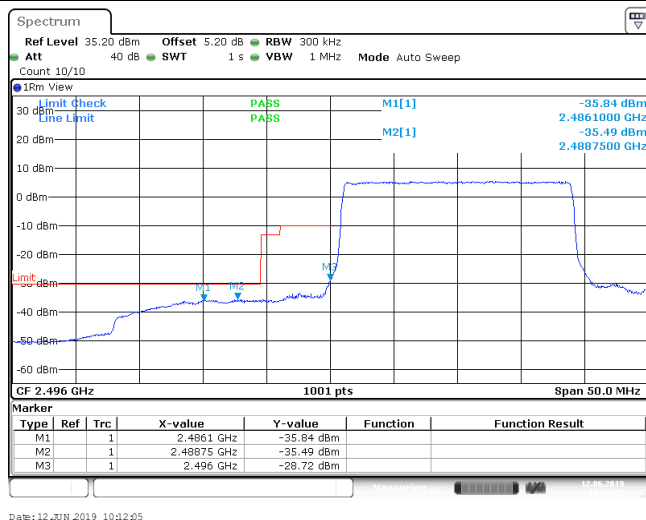
Band41_20MHz_QPSK_39750_1RB#0





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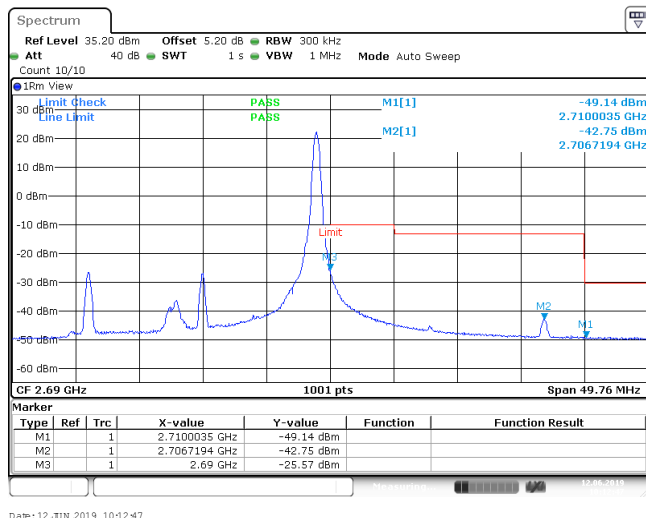
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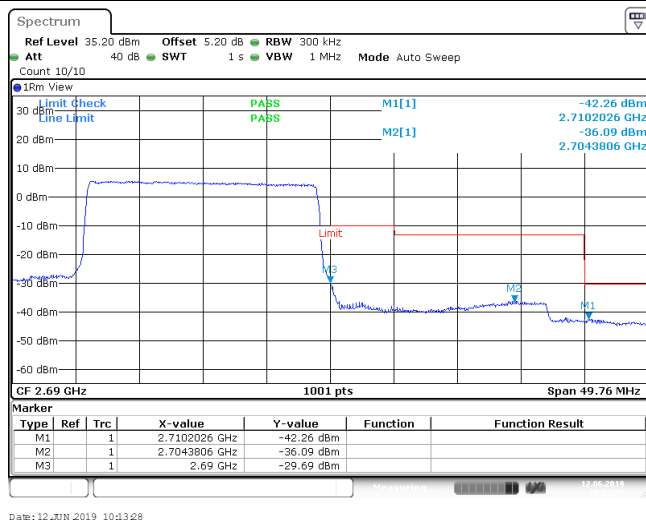
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Band41_20MHz_QPSK_41490_100RB#0



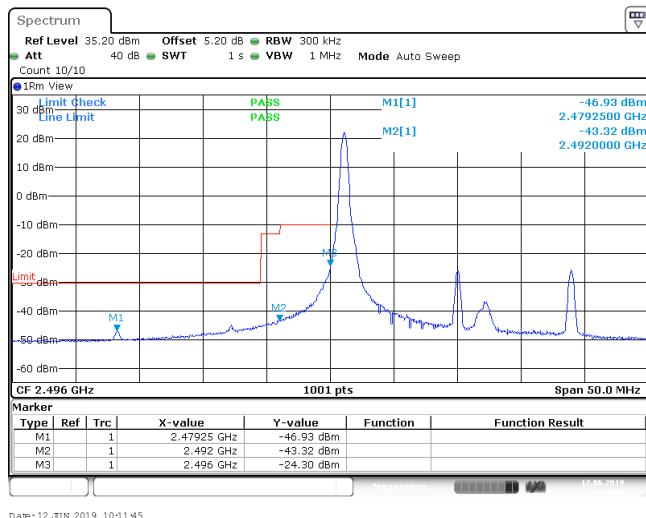
Band41_20MHz_16QAM_39750_1RB#0



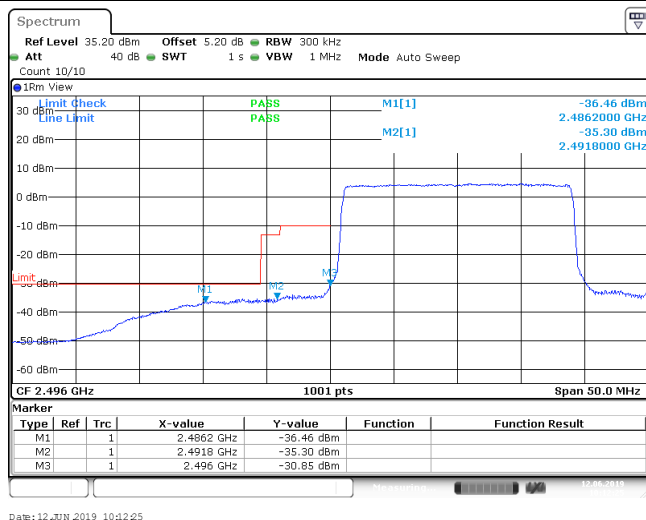
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Band41_20MHz_16QAM_39750_100RB#0

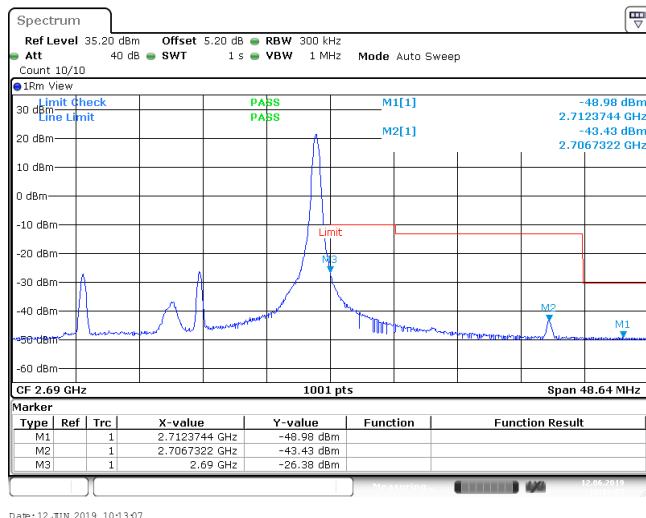


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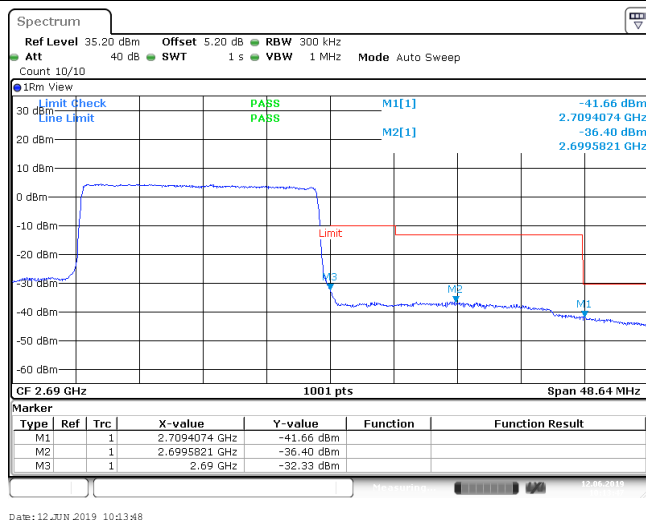


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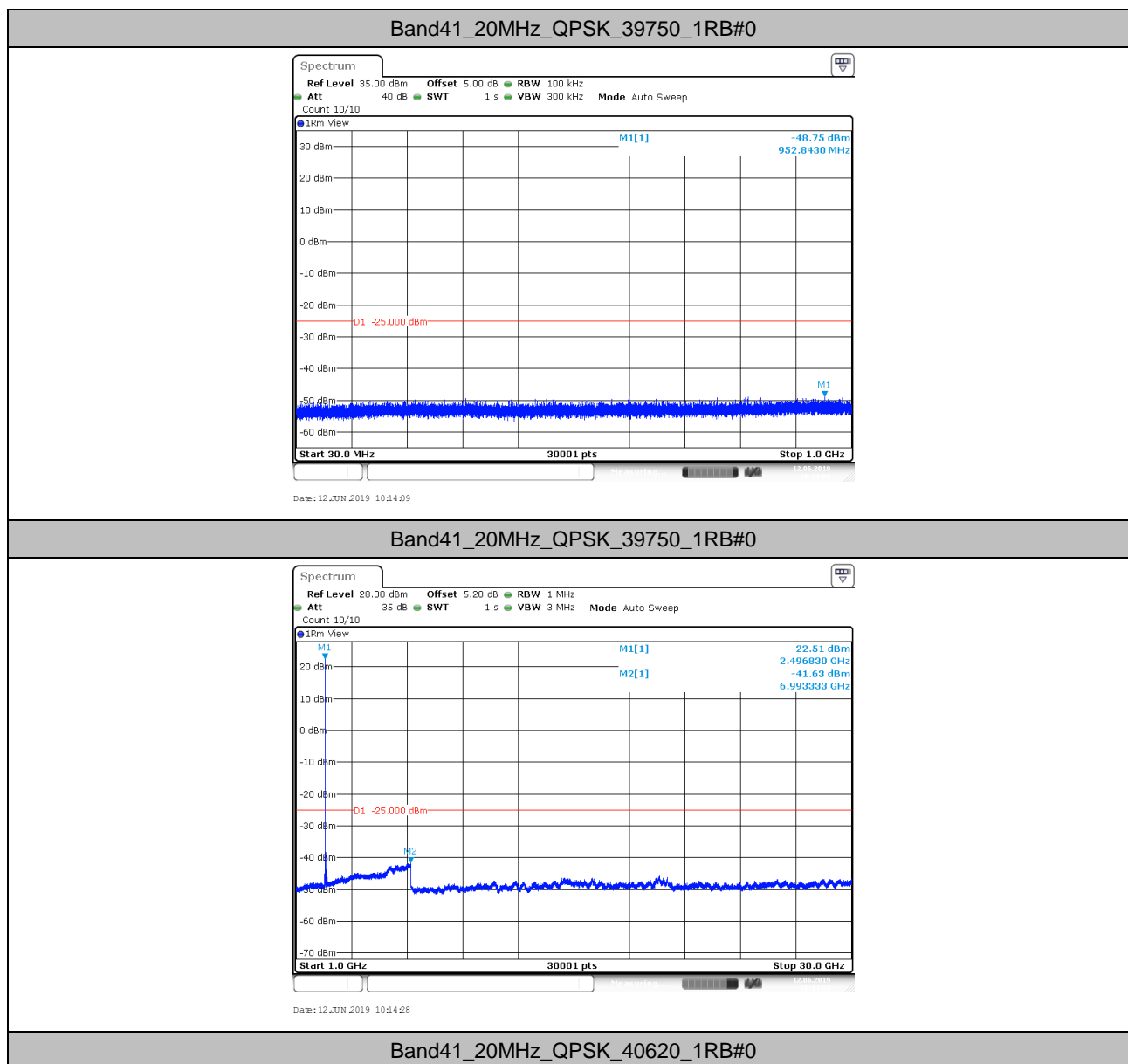


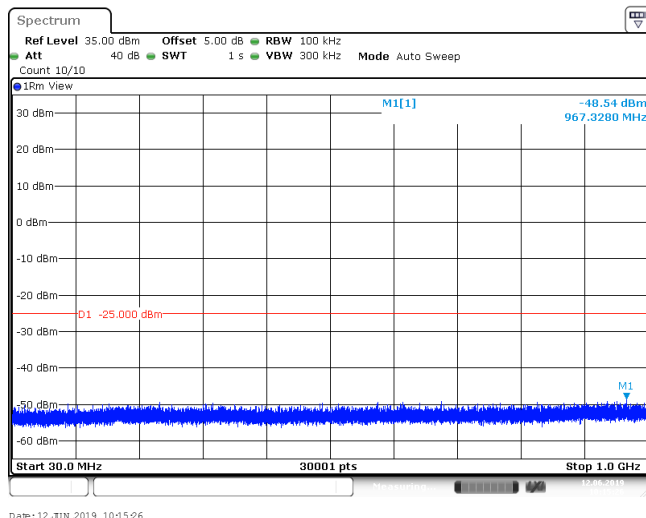
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

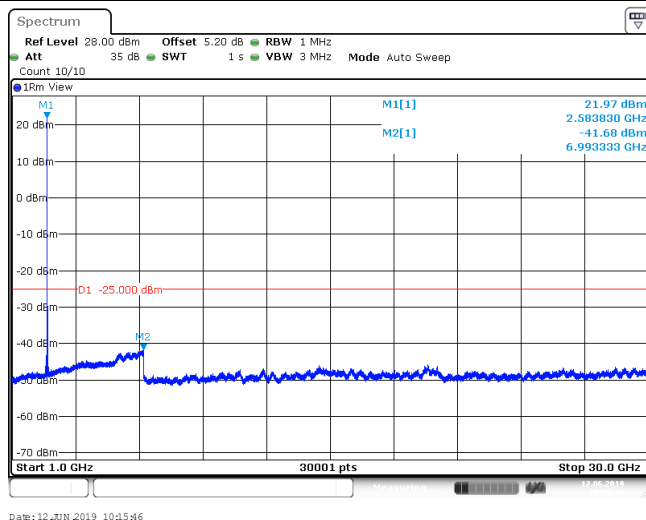
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





Band41_20MHz_QPSK_40620_1RB#0

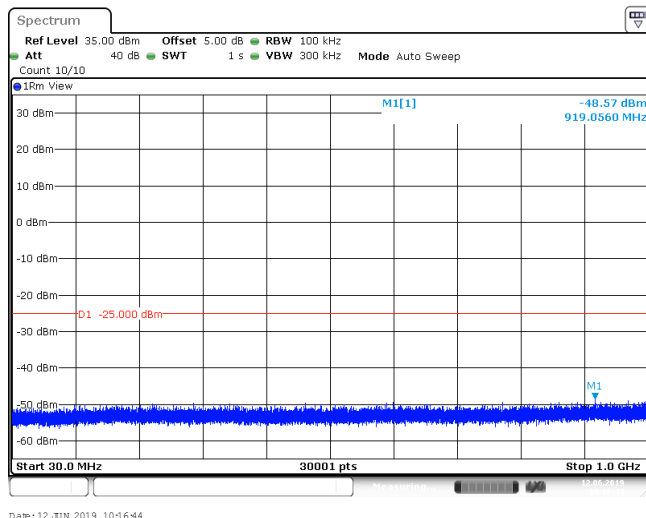


Band41_20MHz_QPSK_41490_1RB#0

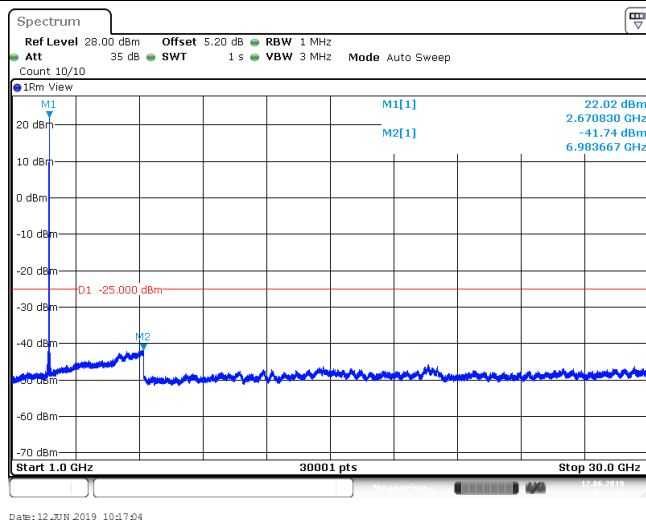


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Band41_20MHz_QPSK_41490_1RB#0

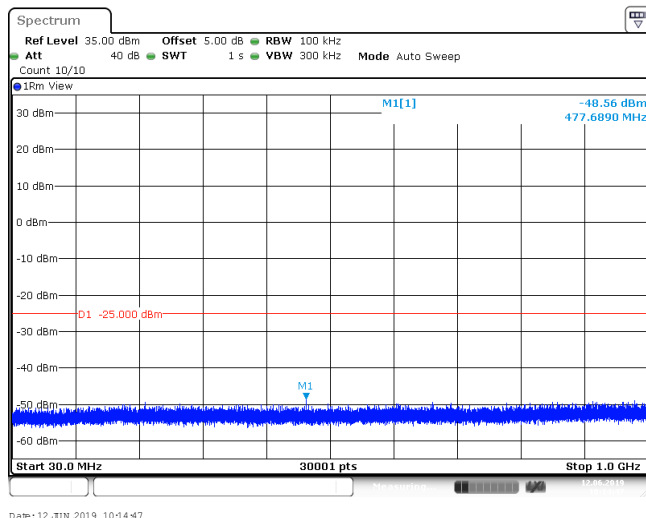


Band41_20MHz_16QAM_39750_1RB#0

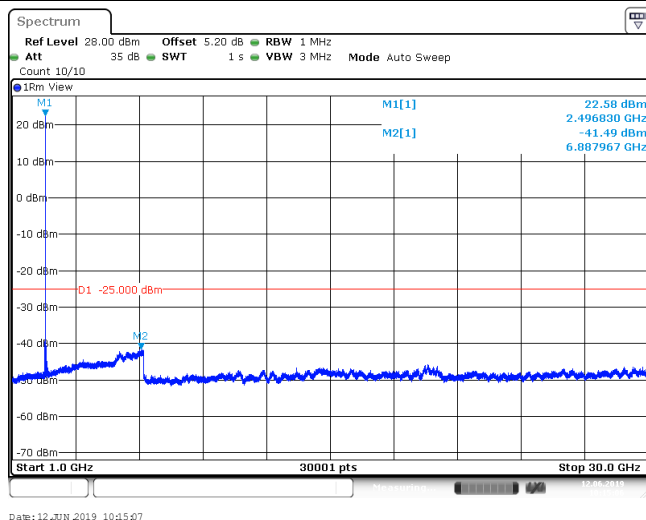


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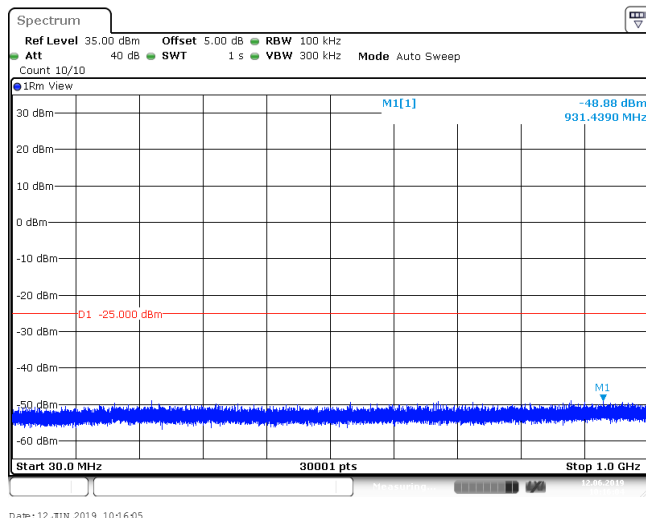


Band41_20MHz_16QAM_39750_1RB#0

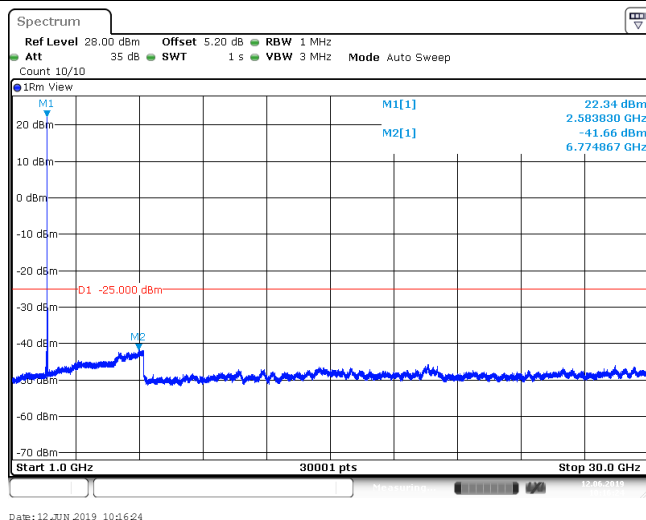


Band41_20MHz_16QAM_40620_1RB#0



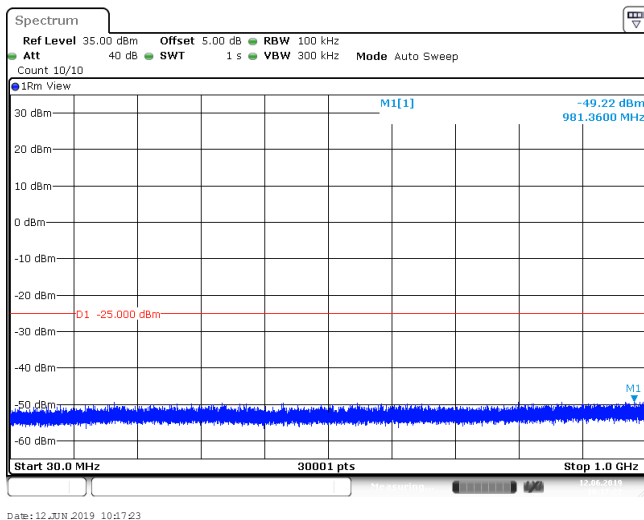


Band41_20MHz_16QAM_40620_1RB#0

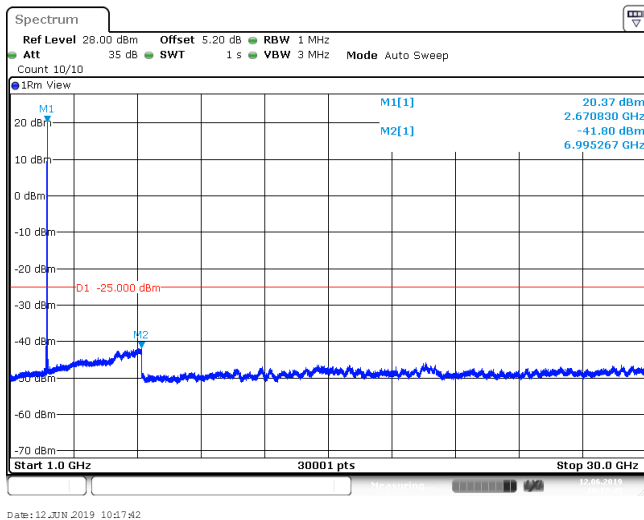


Band41_20MHz_16QAM_41490_1RB#0





Band41_20MHz_16QAM_41490_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 41

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
64.100000	-80.21	-25.00	55.21	Vertical
104.250000	-80.28	-25.00	55.28	Vertical
934.916667	-75.68	-25.00	50.68	Vertical
4993.875000	-52.02	-25.00	27.02	Vertical
7491.175000	-47.64	-25.00	22.64	Vertical
9988.800000	-57.50	-25.00	32.50	Vertical
56.300000	-76.80	-25.00	51.80	Horizontal
104.300000	-83.38	-25.00	58.38	Horizontal
948.025000	-75.63	-25.00	50.63	Horizontal
4993.875000	-60.41	-25.00	35.41	Horizontal
7491.175000	-54.12	-25.00	29.12	Horizontal
9988.475000	-62.25	-25.00	37.25	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.100000	-80.98	-25.00	55.98	Vertical
104.250000	-79.22	-25.00	54.22	Vertical
960.262500	-75.83	-25.00	50.83	Vertical
5168.075000	-53.14	-25.00	28.14	Vertical
7752.475000	-50.25	-25.00	25.25	Vertical
10336.550000	-59.60	-25.00	34.60	Vertical
62.450000	-76.41	-25.00	51.41	Horizontal
104.300000	-83.51	-25.00	58.51	Horizontal
957.787500	-75.11	-25.00	50.11	Horizontal
5168.075000	-56.81	-25.00	31.81	Horizontal
7752.475000	-57.06	-25.00	32.06	Horizontal
10336.225000	-61.31	-25.00	36.31	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.100000	-79.74	-25.00	54.74	Vertical
125.000000	-84.45	-25.00	59.45	Vertical
960.354167	-76.03	-25.00	51.03	Vertical
5272.075000	-53.93	-25.00	28.93	Vertical
7908.150000	-52.91	-25.00	27.91	Vertical
10544.550000	-62.36	-25.00	37.36	Vertical
62.000000	-76.31	-25.00	51.31	Horizontal
104.300000	-82.75	-25.00	57.75	Horizontal
950.454167	-75.14	-25.00	50.14	Horizontal
5272.075000	-59.68	-25.00	34.68	Horizontal
7908.150000	-56.17	-25.00	31.17	Horizontal
9887.725000	-62.21	-25.00	37.21	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.





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
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-1.70	-0.000678	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	-1.10	-0.000439	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-5.90	-0.002354	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-1.70	-0.000656	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-2.60	-0.001003	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-5.40	-0.002083	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-4.20	-0.001567	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-6.40	-0.002388	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-2.50	-0.000933	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-5.60	-0.002235	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	-1.20	-0.000479	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	-6.80	-0.002713	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-1.90	-0.000733	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	-2.60	-0.001003	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	0.60	0.000224	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-1.40	-0.000522	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	-5.80	-0.002164	±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
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	-0.80	-0.000319	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	-4.50	-0.001796	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-4.60	-0.001836	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-5.10	-0.002035	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-0.30	-0.000120	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	-5.90	-0.002354	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-3.20	-0.001277	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-0.50	-0.000200	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-5.90	-0.002275	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-1.80	-0.000694	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.40	-0.000154	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-3.70	-0.001427	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-1.00	-0.000386	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-1.70	-0.000656	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-3.10	-0.001196	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-1.60	-0.000617	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-4.40	-0.001642	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	1.00	0.000373	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-4.40	-0.001642	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	-1.10	-0.000410	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	-3.70	-0.001381	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	-1.20	-0.000448	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-1.10	-0.000439	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	-1.80	-0.000718	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-5.30	-0.002115	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	0.40	0.000160	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-2.10	-0.000838	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	-4.70	-0.001875	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	-2.20	-0.000878	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	-6.50	-0.002594	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-0.60	-0.000231	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-1.60	-0.000617	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-5.50	-0.002121	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-2.30	-0.000887	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-6.30	-0.002430	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	-0.30	-0.000116	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-5.90	-0.002275	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	-6.80	-0.002622	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	-6.60	-0.002463	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	0.20	0.000075	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	-1.00	-0.000373	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	-6.90	-0.002575	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	-4.50	-0.001679	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	-1.90	-0.000709	±2.5	PASS



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Band41	20MHz	16QAM	41490	100RB#0	NV	40	-0.70	-0.000261	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	-2.90	-0.001082	±2.5	PASS

The End

