



Appendix B

E-UTRA Band 5



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CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1	TEST RESULT.....	3
2	PEAK-TO-AVERAGE RATIO (CCDF).....	8
2.1	TEST RESULT.....	8
2.2	TEST PLOTS.....	8
3	MODULATION CHARACTERISTICS.....	12
3.1	TEST MODE = LTE /TM1 10MHZ.....	12
3.1.1	TEST CHANNEL = MCH	12
3.2	TEST MODE = LTE /TM2 10MHZ.....	13
3.2.1	TEST CHANNEL = MCH.....	13
4	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	14
4.1	TEST RESULT	14
4.2	TEST PLOTS.....	15
5	BAND EDGE COMPLIANCE	27
5.1	TEST PLOTS.....	27
6	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	44
6.1	TEST PLOTS.....	44
7	FIELD STRENGTH OF SPURIOUS RADIATION	51
7.1	TEST MODE =LTE/TM1 10MHZ	51
7.1.1	TEST CHANNEL = LCH	51
7.1.2	TEST CHANNEL = MCH	51
7.1.3	TEST CHANNEL = HCH	52
8	FREQUENCY STABILITY.....	53
8.1	FREQUENCY VS VOLTAGE	53
8.2	FREQUENCY VS TEMPERATURE	53



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1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.43	21.18	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.35	21.10	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.29	21.04	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.32	21.07	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.38	21.13	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.44	21.19	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.23	19.98	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.11	20.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.17	20.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.84	20.59	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.11	20.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.08	20.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.26	21.01	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.24	19.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.45	20.20	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.02	20.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.65	20.40	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.15	20.90	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.02	20.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.88	20.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.14	19.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.97	19.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.01	19.76	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.86	19.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.62	19.37	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.81	19.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.03	19.78	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.91	18.66	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.11	19.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.67	19.42	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.86	19.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.83	19.58	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	21.87	19.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.85	19.60	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.76	18.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.96	19.71	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.82	19.57	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.48	19.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.94	19.69	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.75	19.50	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.60	19.35	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.07	18.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.23	20.98	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.23	20.98	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.11	20.86	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.24	19.99	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.25	20.00	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.18	19.93	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.30	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.15	20.90	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.96	20.71	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.11	20.86	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.30	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.09	19.84	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.11	19.86	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.27	20.02	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.26	21.01	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.98	20.73	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.71	20.46	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.39	20.14	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.09	19.84	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.00	19.75	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.22	19.97	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.73	19.48	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.09	19.84	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.76	19.51	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.69	19.44	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.77	18.52	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.04	18.79	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.90	18.65	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.17	19.92	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.85	19.60	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.69	19.44	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.83	18.58	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.87	18.62	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.76	18.51	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.78	18.53	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.93	19.68	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.73	19.48	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.30	19.05	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.09	18.84	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.79	18.54	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.86	18.61	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.85	18.60	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.03	20.78	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.42	21.17	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.83	20.58	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.26	20.01	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.26	20.01	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.28	20.03	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.67	20.42	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.96	20.71	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.93	20.68	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.82	20.57	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.32	20.07	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.11	19.86	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.03	19.78	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.92	19.67	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.28	21.03	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.19	20.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.48	20.23	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.42	20.17	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.23	19.98	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.92	19.67	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.17	19.92	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.71	19.46	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.81	19.56	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.95	19.70	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.02	18.77	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.94	18.69	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.87	18.62	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.88	18.63	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.79	19.54	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.84	19.59	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.59	19.34	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.83	18.58	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.87	18.62	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.96	18.71	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.78	18.53	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.95	19.70	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.88	19.63	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.26	19.01	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.16	18.91	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.75	18.50	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.61	18.36	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.96	18.71	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.99	20.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.53	21.28	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.99	20.74	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.20	19.95	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.51	20.26	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.28	20.03	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.87	19.62	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.90	20.65	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.21	20.96	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.76	20.51	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.36	20.11	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.13	19.88	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.89	19.64	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.82	19.57	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.90	20.65	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.80	21.55	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.54	20.29	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.11	19.86	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.41	20.16	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.12	19.87	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	21.72	19.47	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.76	19.51	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.51	20.26	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.54	19.29	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.85	18.60	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.10	18.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.88	18.63	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	20.80	18.55	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.98	19.73	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.98	19.73	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.64	19.39	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.99	18.74	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.75	18.50	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.71	18.46	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	20.97	18.72	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.46	19.21	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.65	20.40	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.47	19.22	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.95	18.70	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.09	18.84	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.77	18.52	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	20.89	18.64	38.45	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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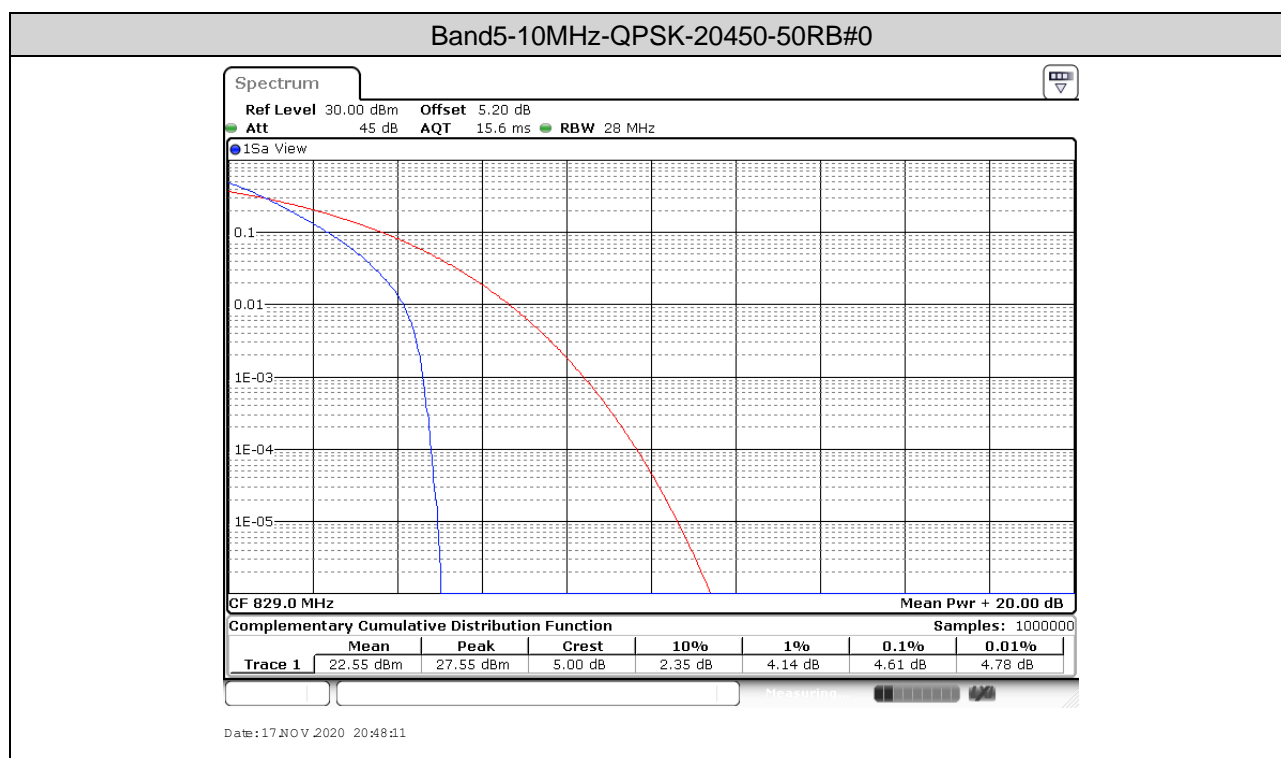


2 Peak-to-Average Ratio (CCDF)

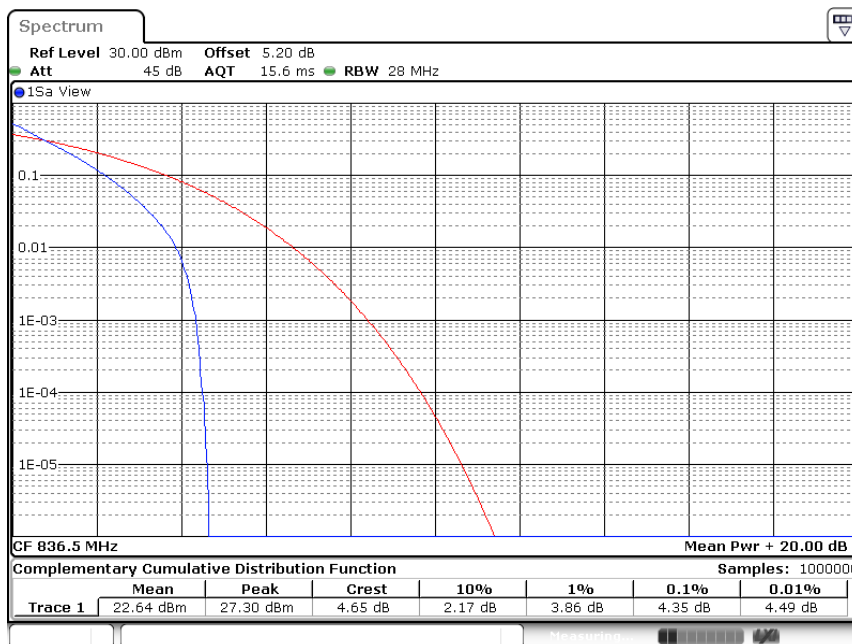
2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.61	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.35	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.75	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.30	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.13	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.42	13	PASS

2.2 Test Plots

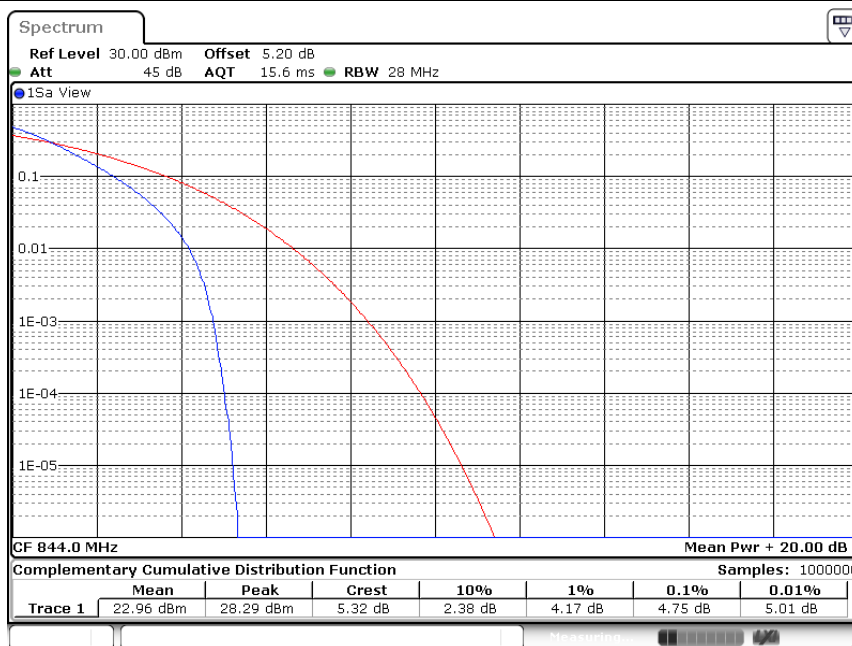


Band5-10MHz-QPSK-20525-50RB#0



Date: 17 NOV 2020 20:48:27

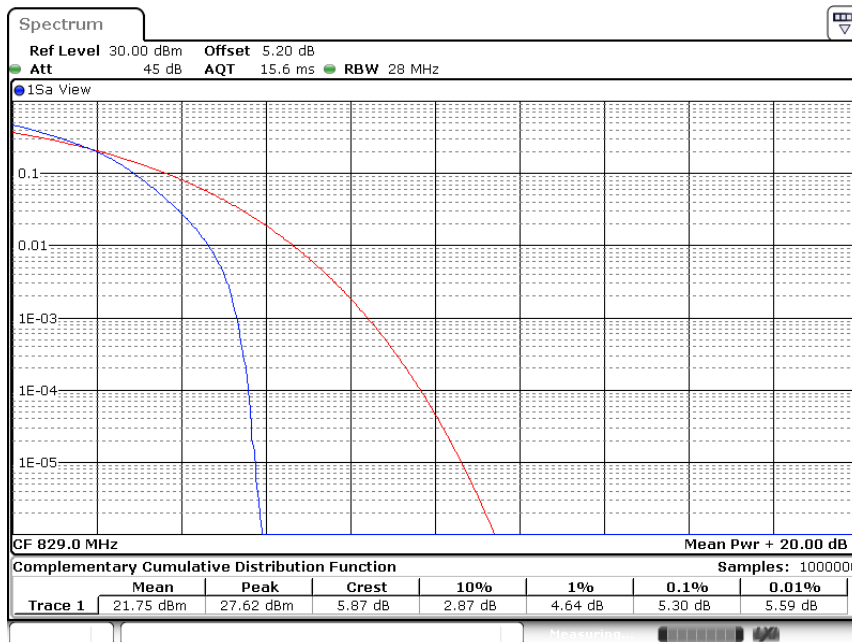
Band5-10MHz-QPSK-20600-50RB#0



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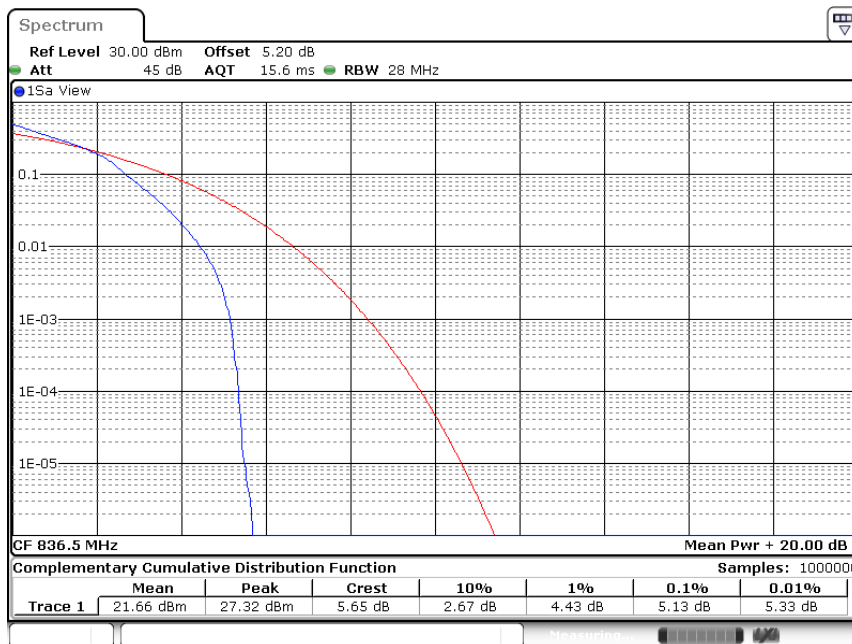


Band5-10MHz-16QAM-20450-27RB#0



Date: 18 NOV 2020 12:04:18

Band5-10MHz-16QAM-20525-27RB#0



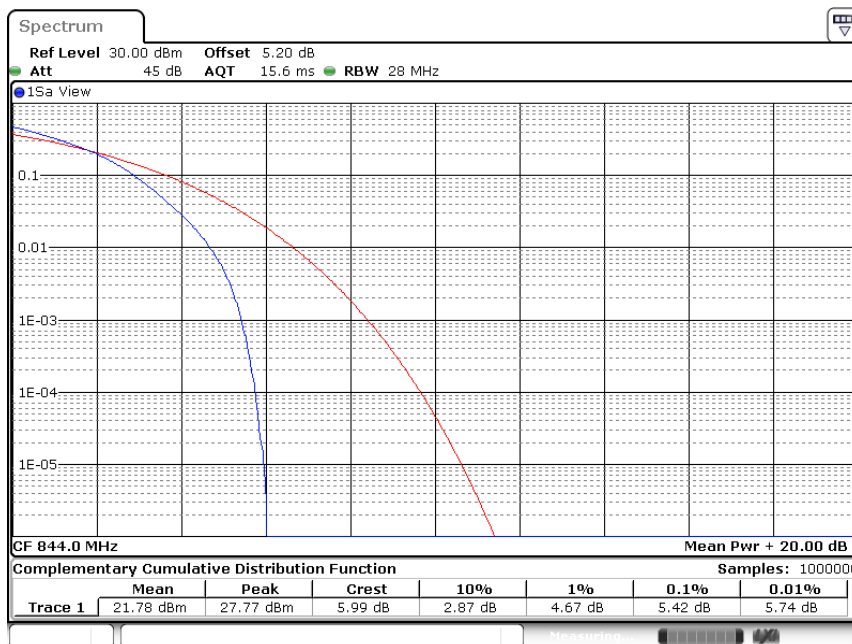
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Band5-10MHz-16QAM-20600-27RB#0



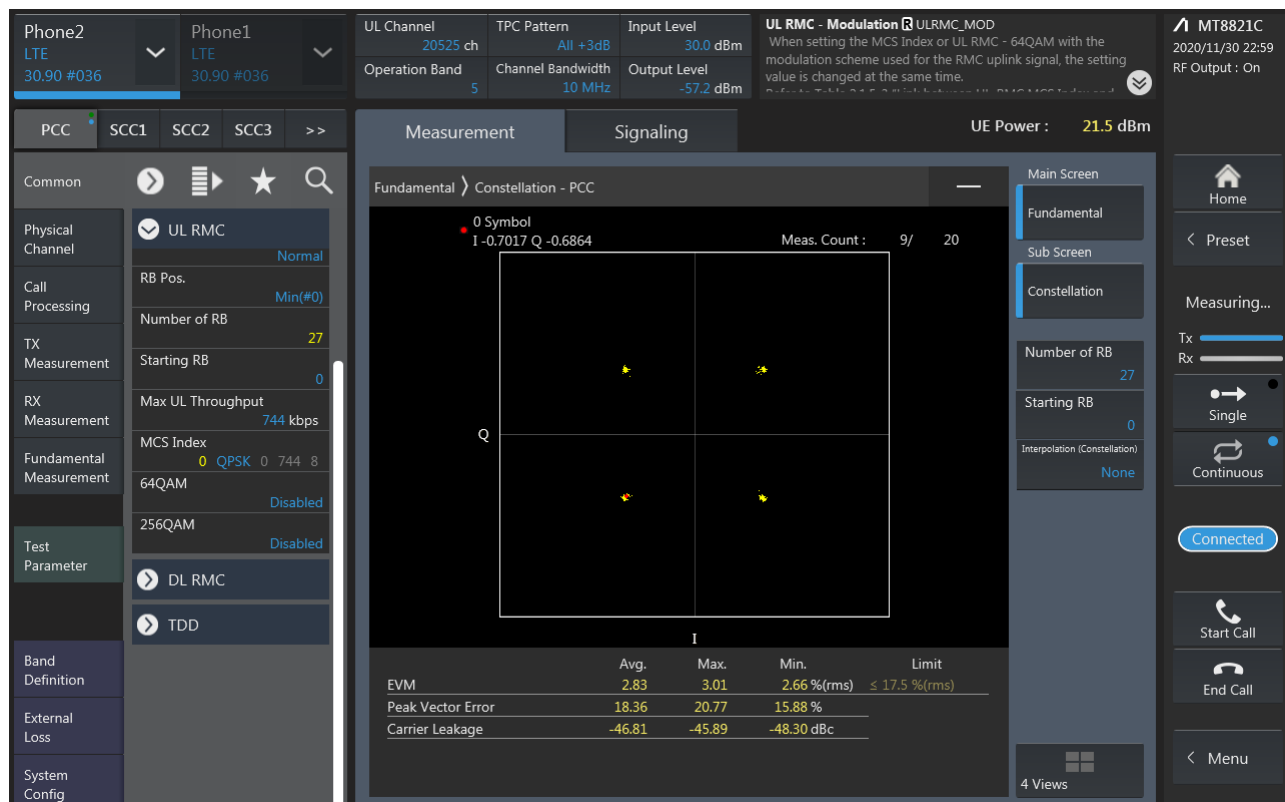
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3 Modulation Characteristics

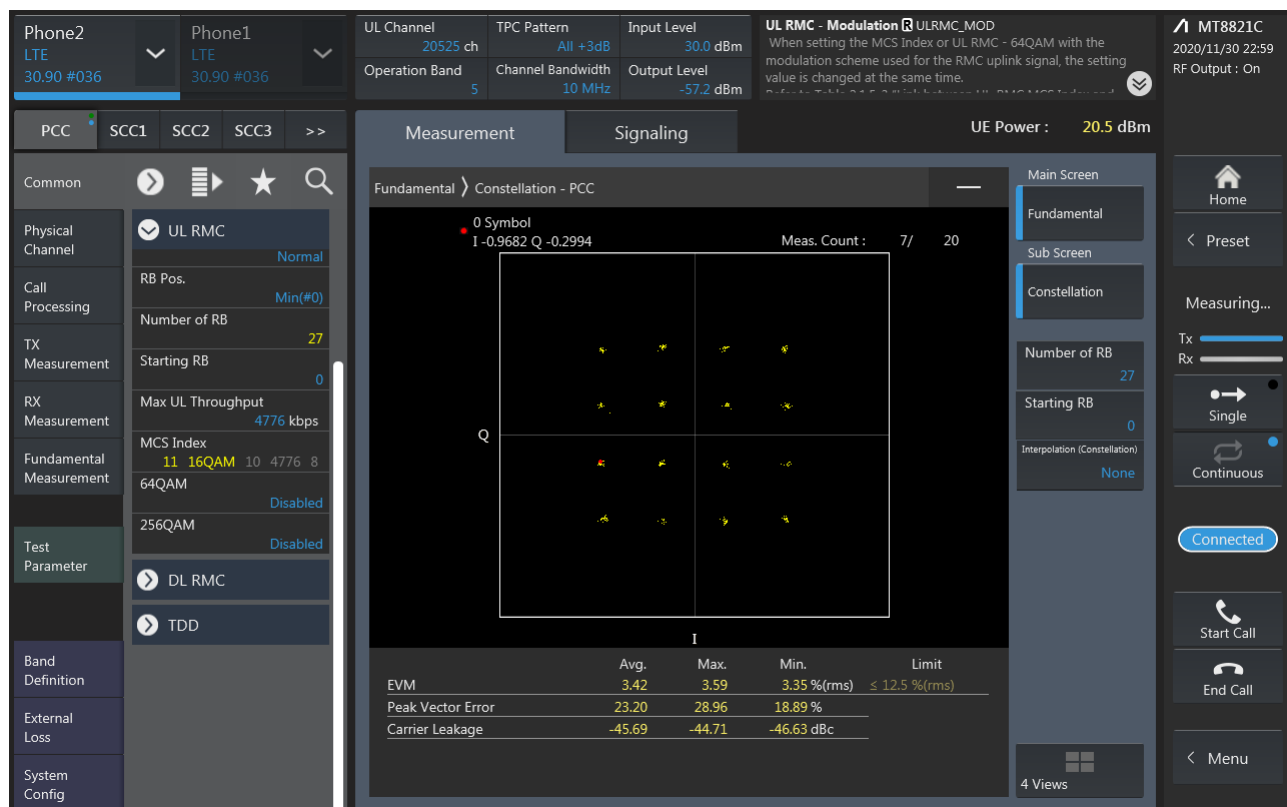
3.1 Test Mode = LTE /TM1 10MHz

3.1.1 Test Channel = MCH



3.2 Test Mode = LTE /TM2 10MHz

3.2.1 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
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.097	1.320	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.311	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.299	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.302	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.976	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	3.006	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.982	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.976	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.900	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.970	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.890	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.970	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.990	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.960	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.680	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.740	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.660	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.895	5.800	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.875	5.600	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.875	5.720	PASS

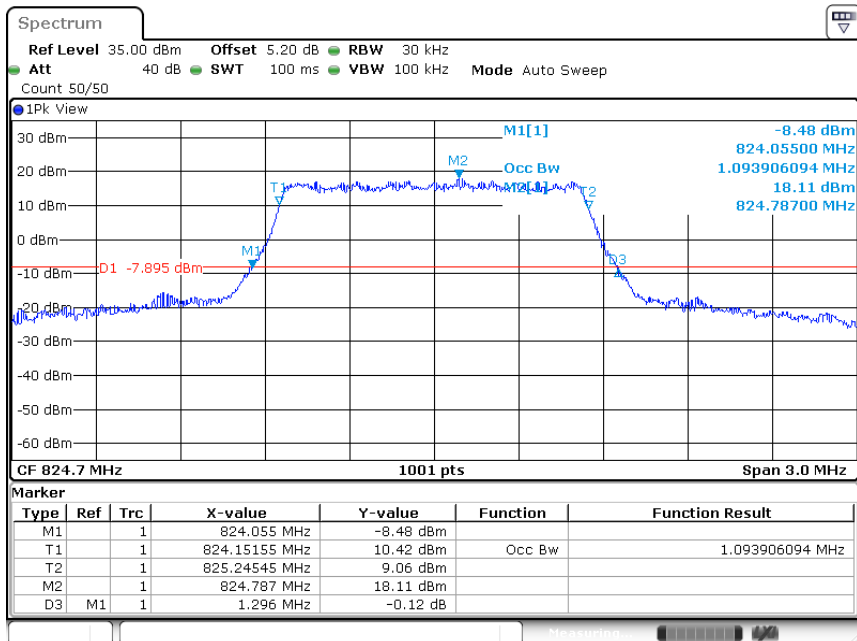


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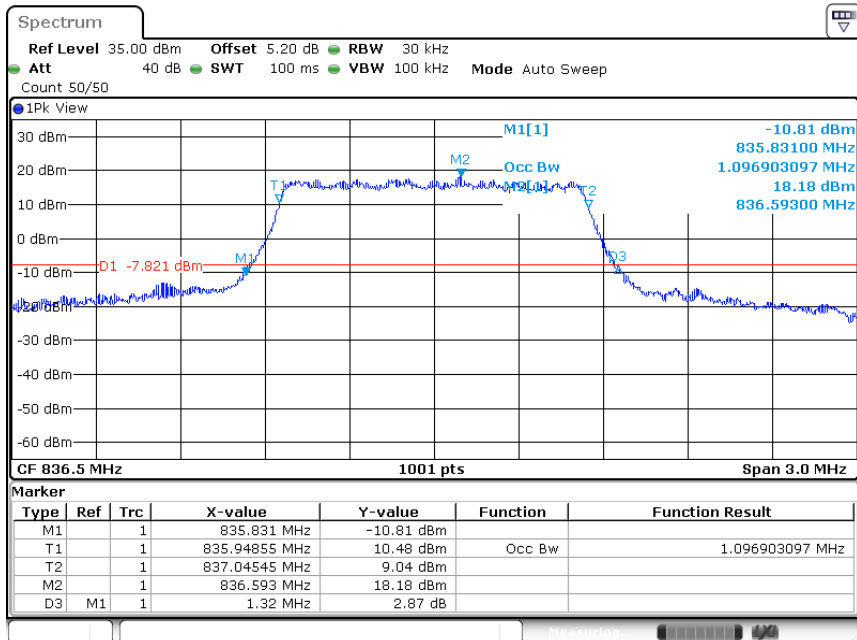
4.2 Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



Date: 17 NOV 2020 20:17:19

Band5-1.4MHz-QPSK-20525-6RB#0-1.097



Date: 17 NOV 2020 20:17:37

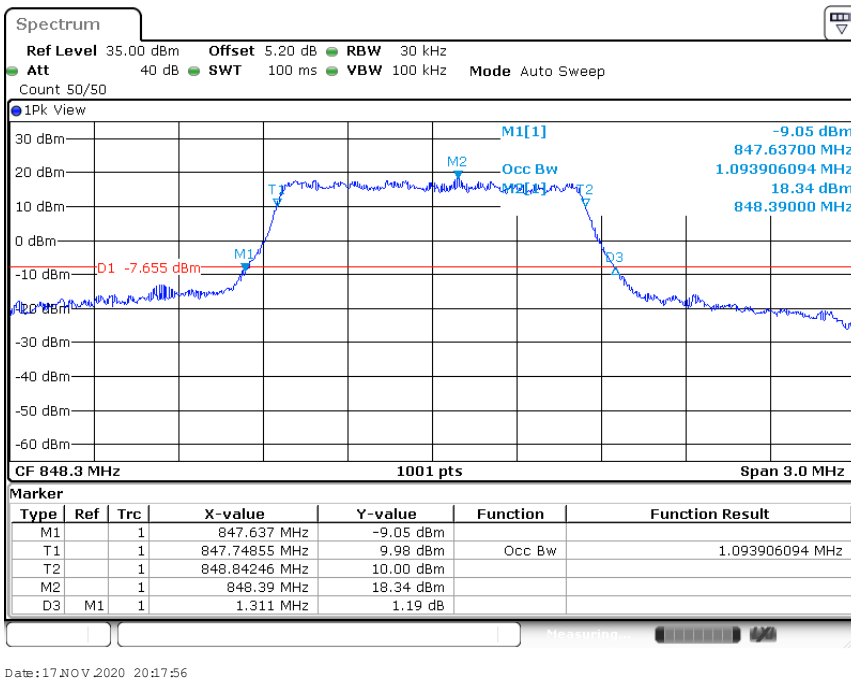


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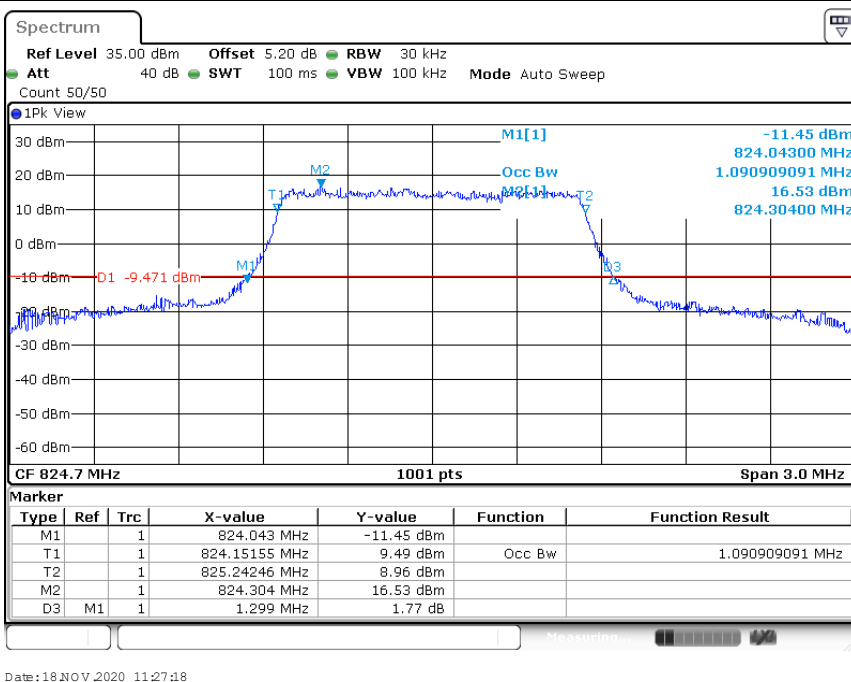
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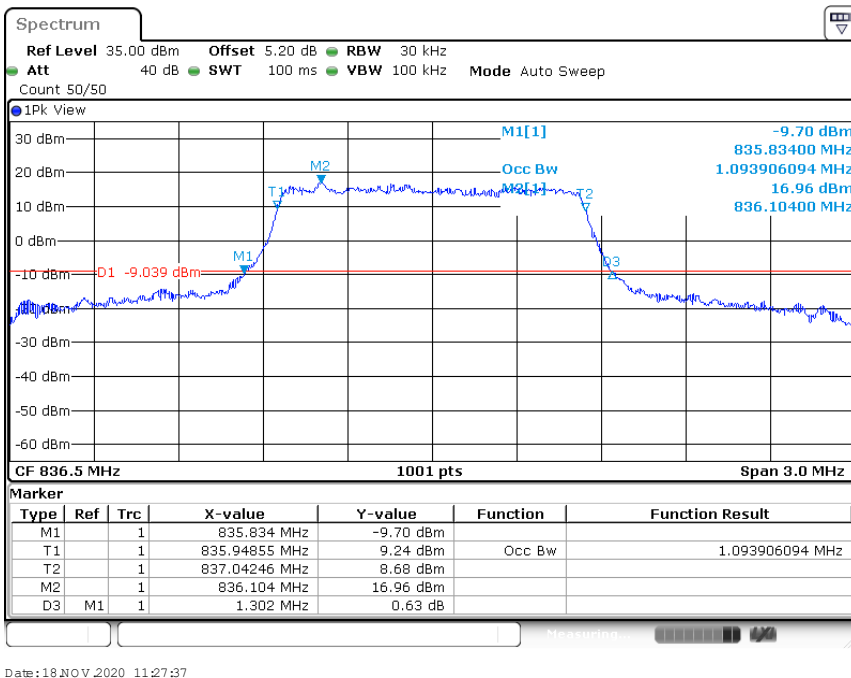
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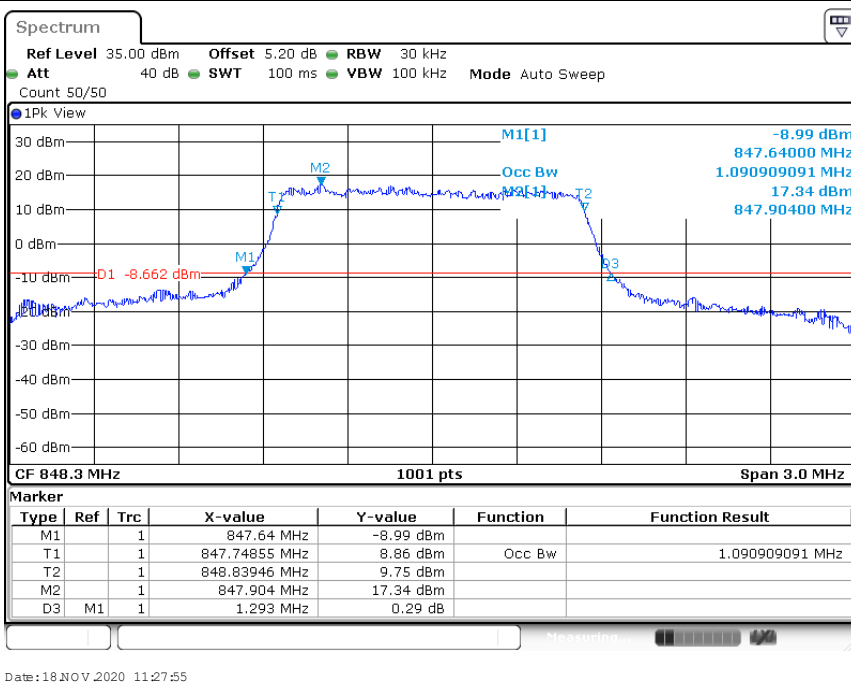
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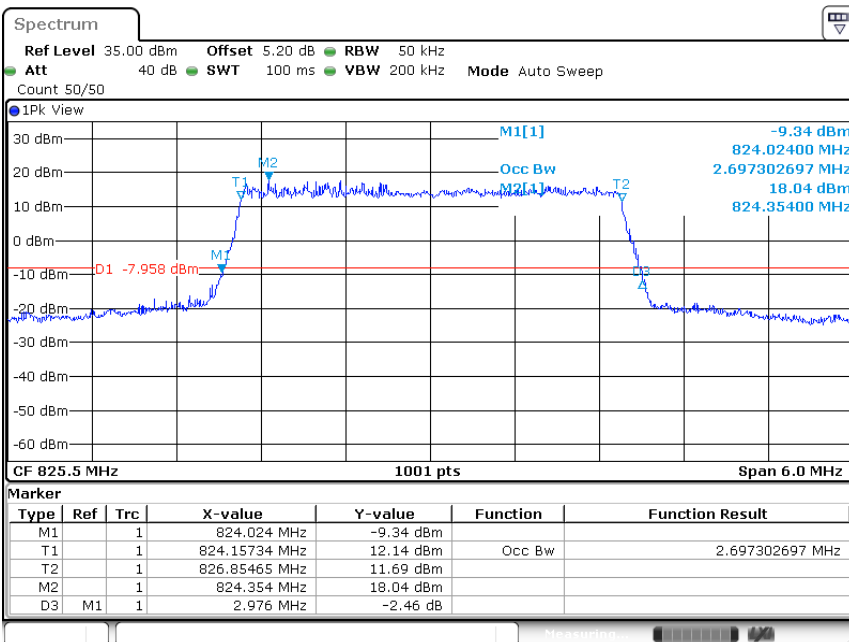
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Band5-1.4MHz-16QAM-20643-6RB#0-1.091

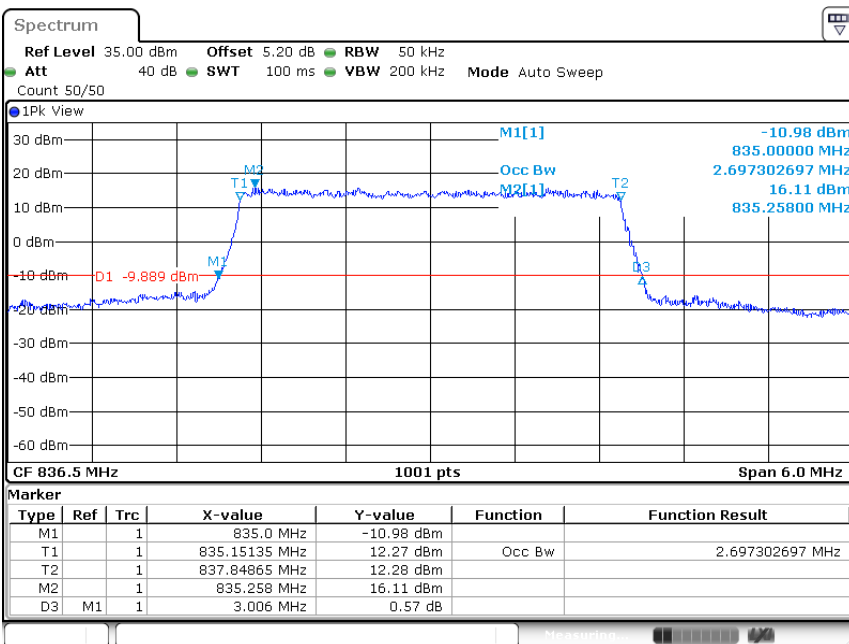


Band5-3MHz-QPSK-20415-15RB#0-2.697



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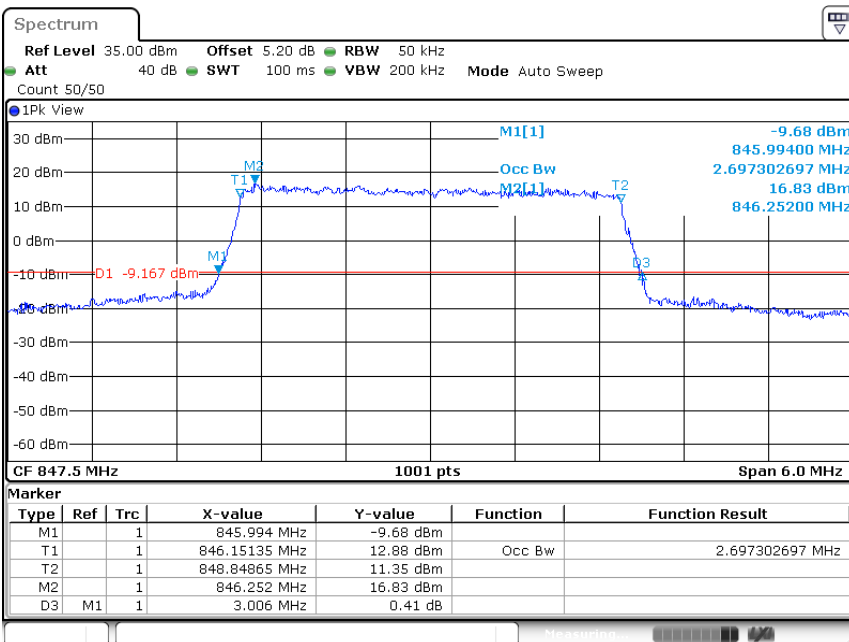
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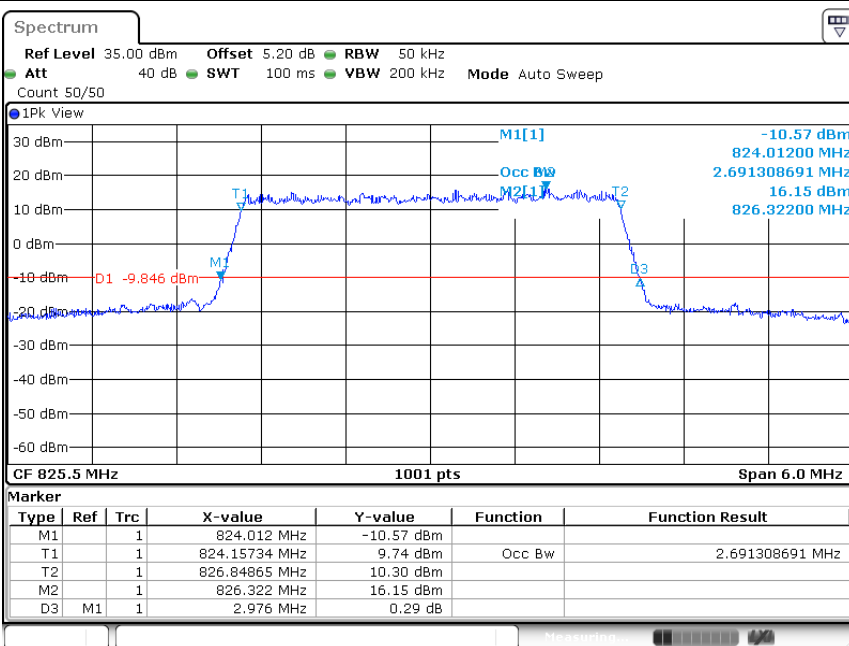


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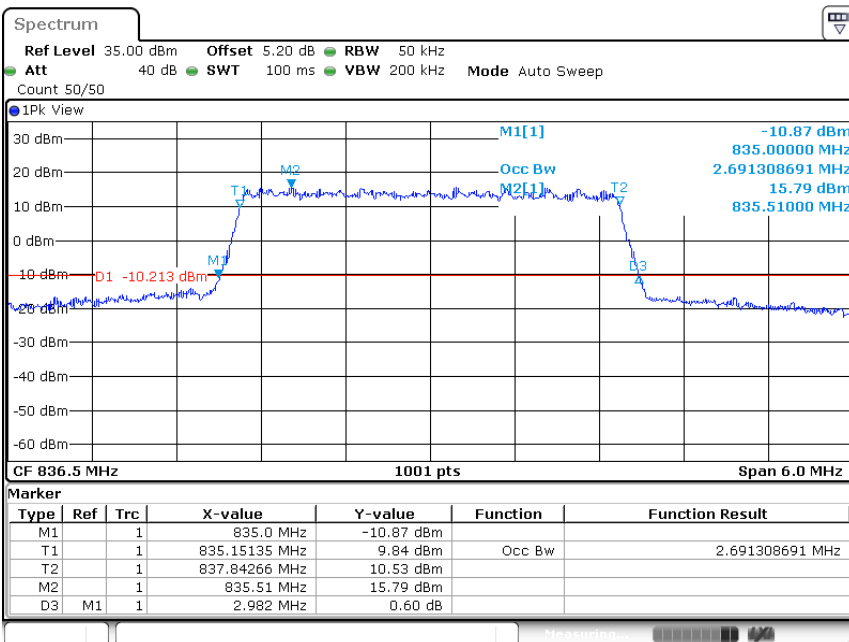
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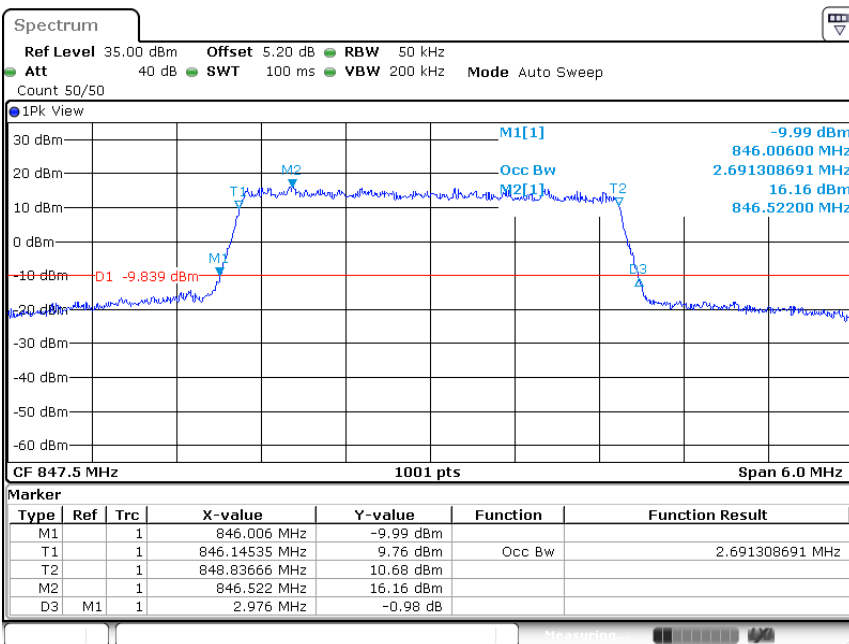


Band5-3MHz-16QAM-20525-15RB#0-2.691



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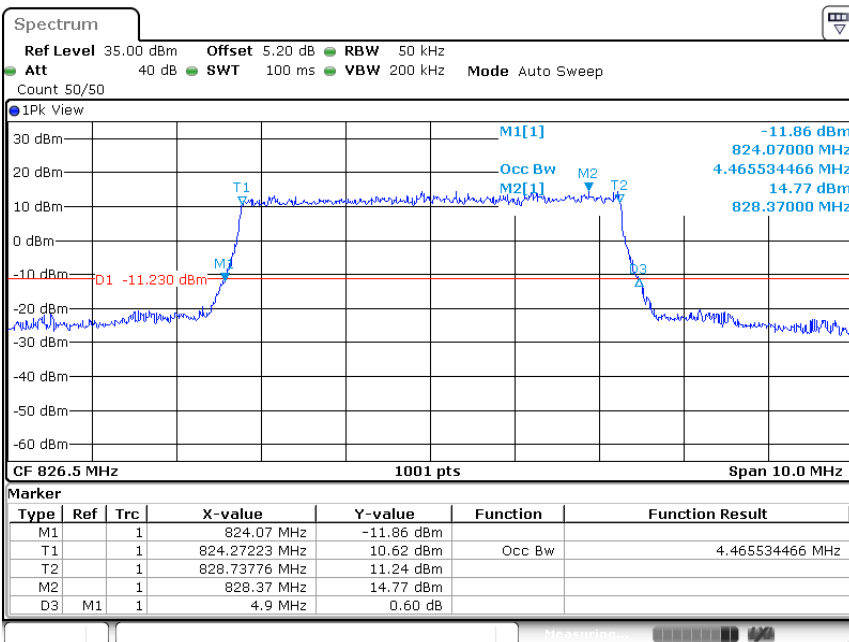
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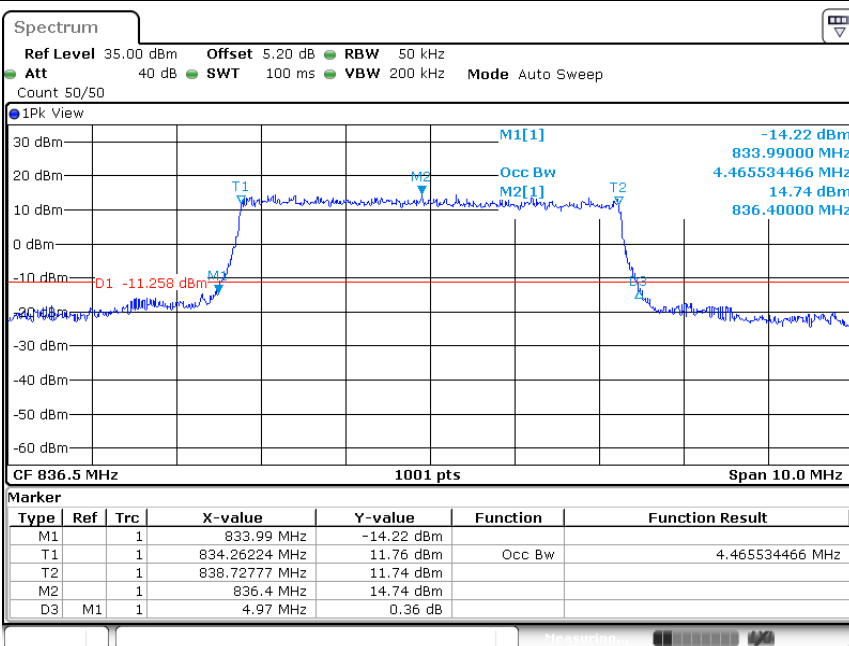


Band5-5MHz-QPSK-20425-25RB#0-4.466



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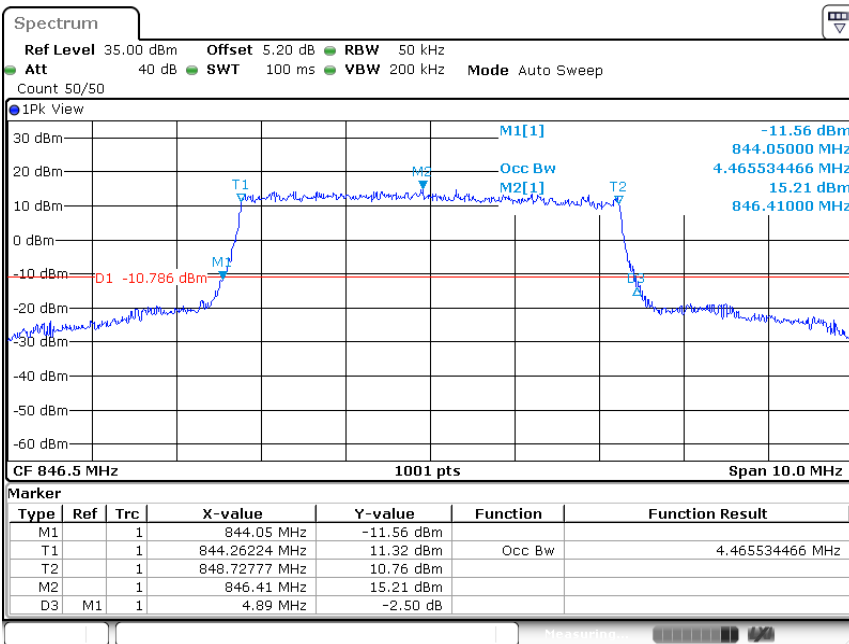
Band5-5MHz-QPSK-20525-25RB#0-4.466



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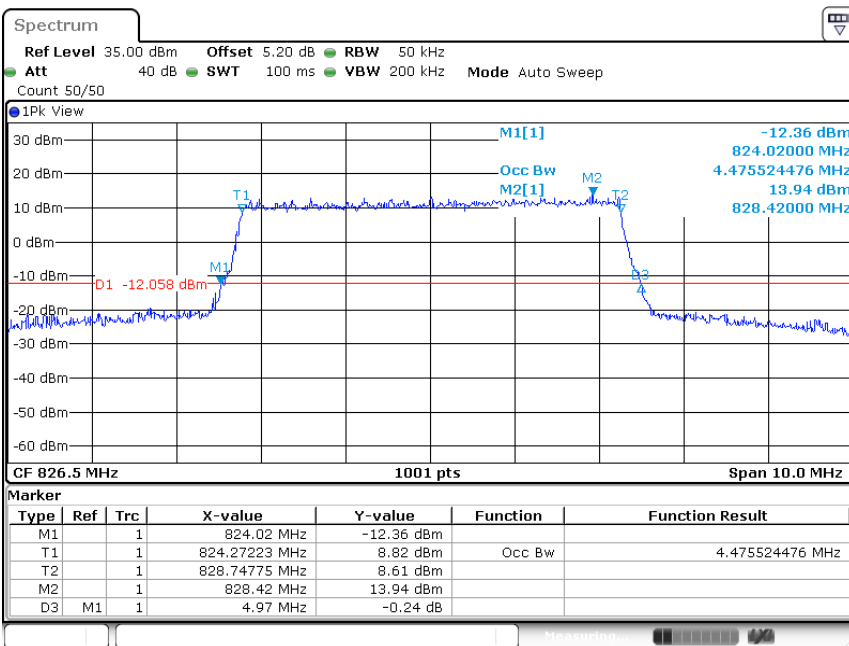


Band5-5MHz-QPSK-20625-25RB#0-4.466



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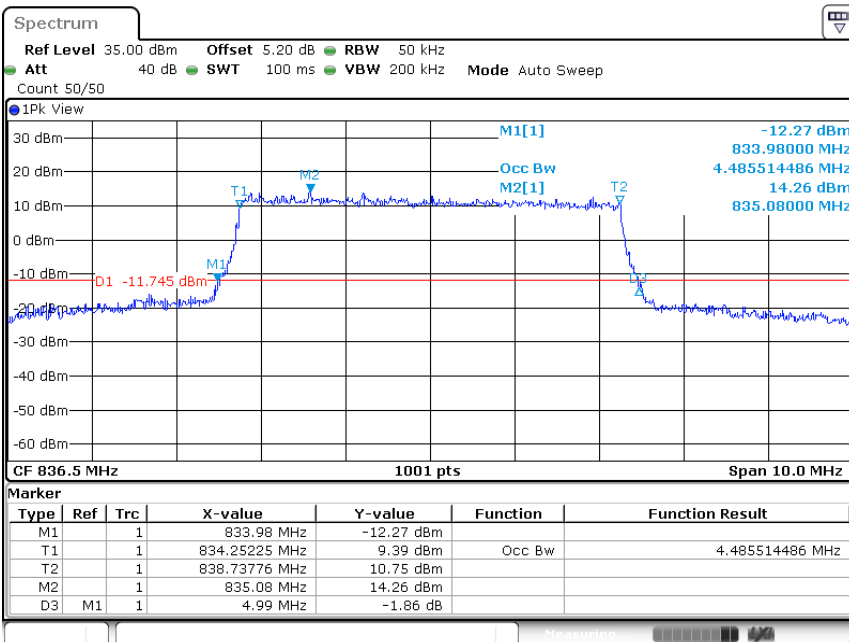
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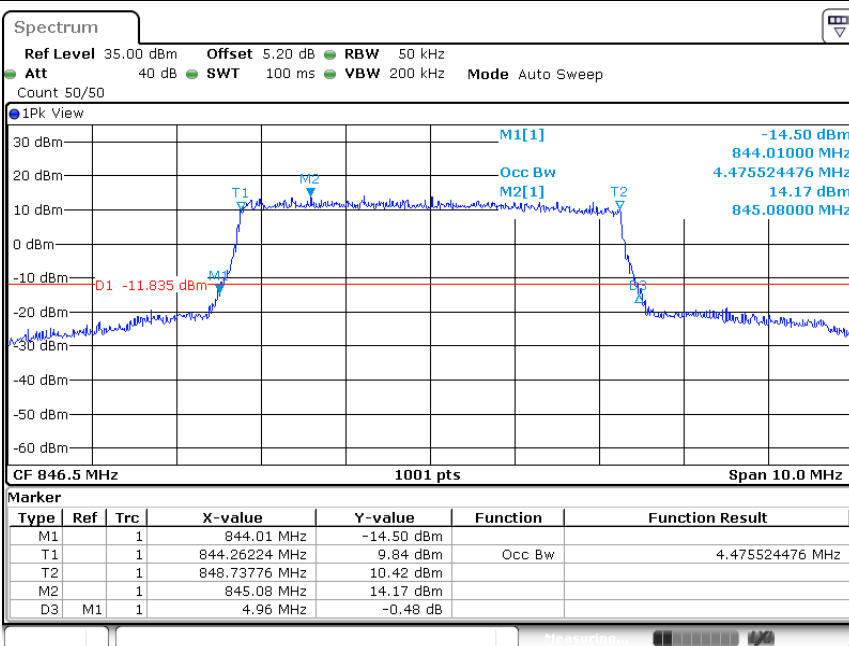


Band5-5MHz-16QAM-20525-25RB#0-4.486



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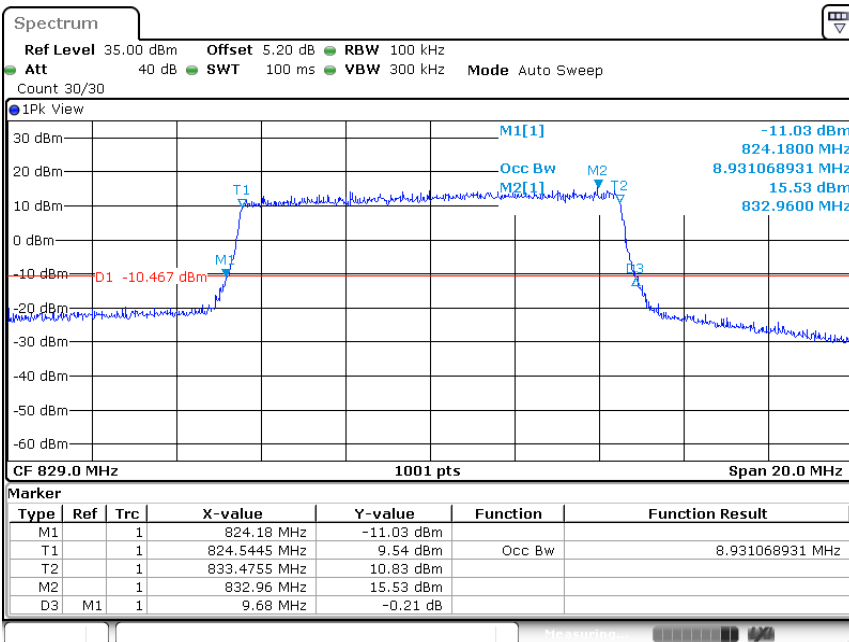
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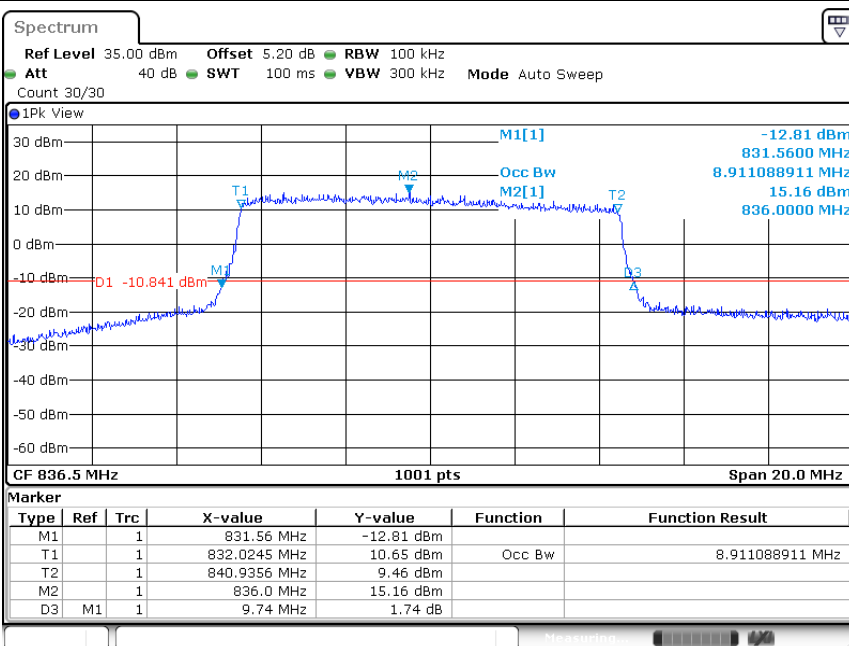


Band5-10MHz-QPSK-20450-50RB#0-8.931



Date: 23 NOV 2020 20:52:22

Band5-10MHz-QPSK-20525-50RB#0-8.911



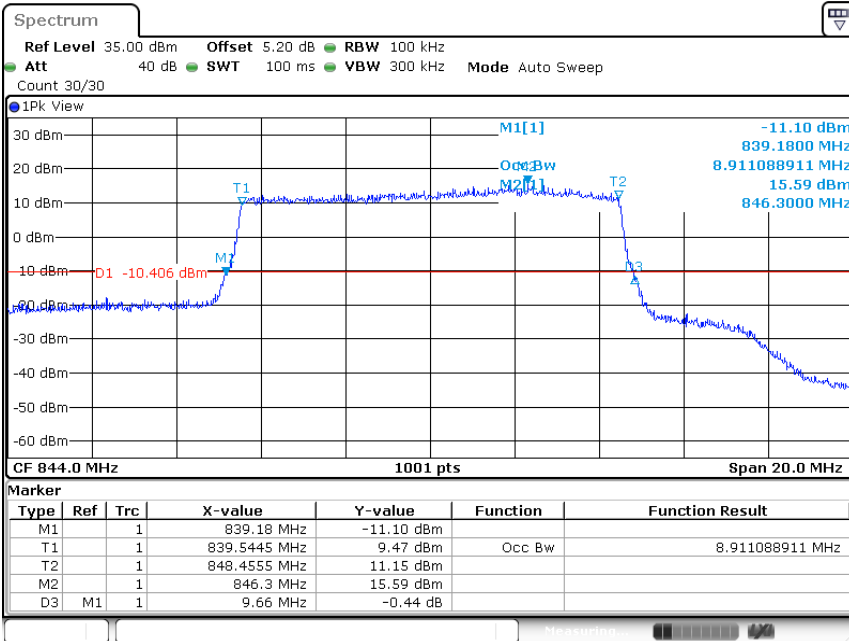
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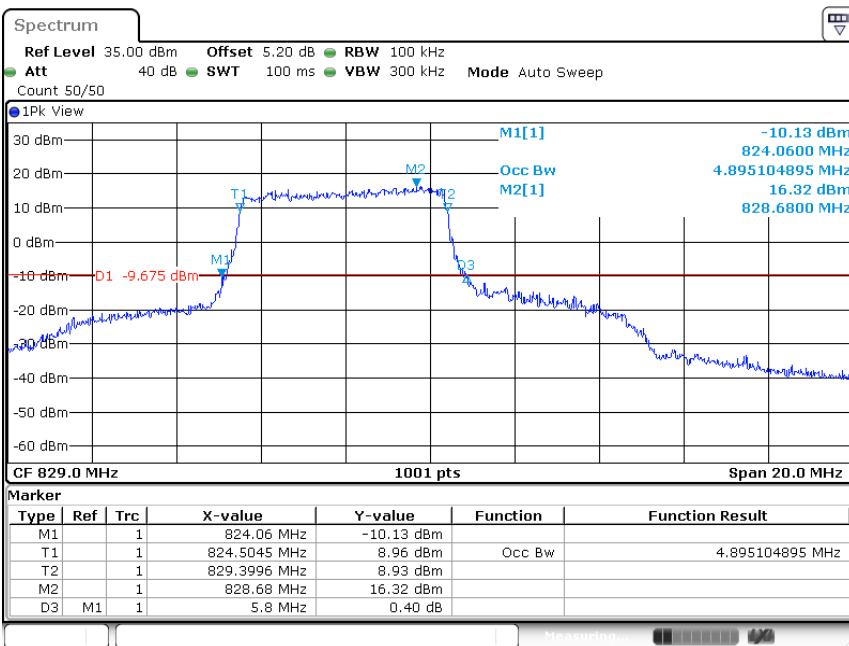
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Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 23 NOV 2020 20:52:47

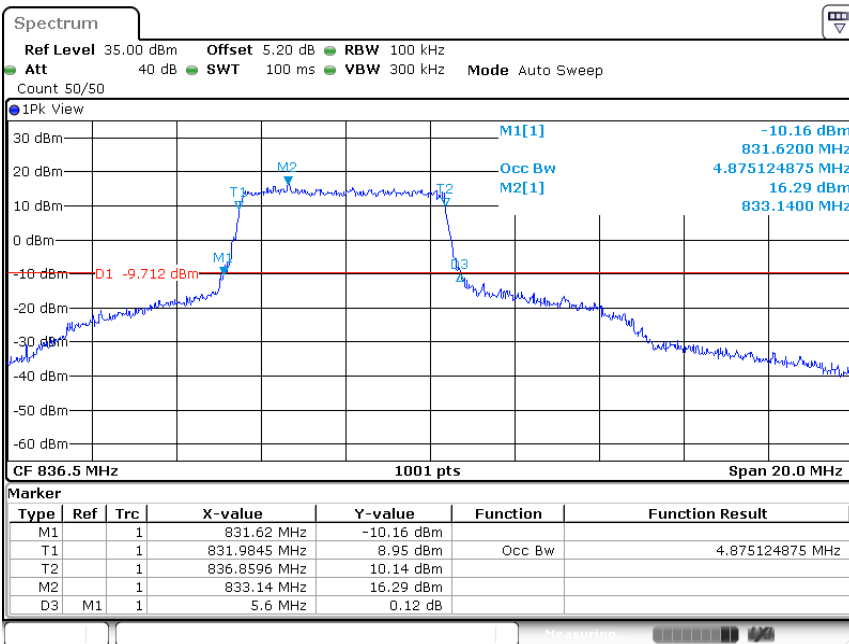
Band5-10MHz-16QAM-20450-27RB#0-4.895



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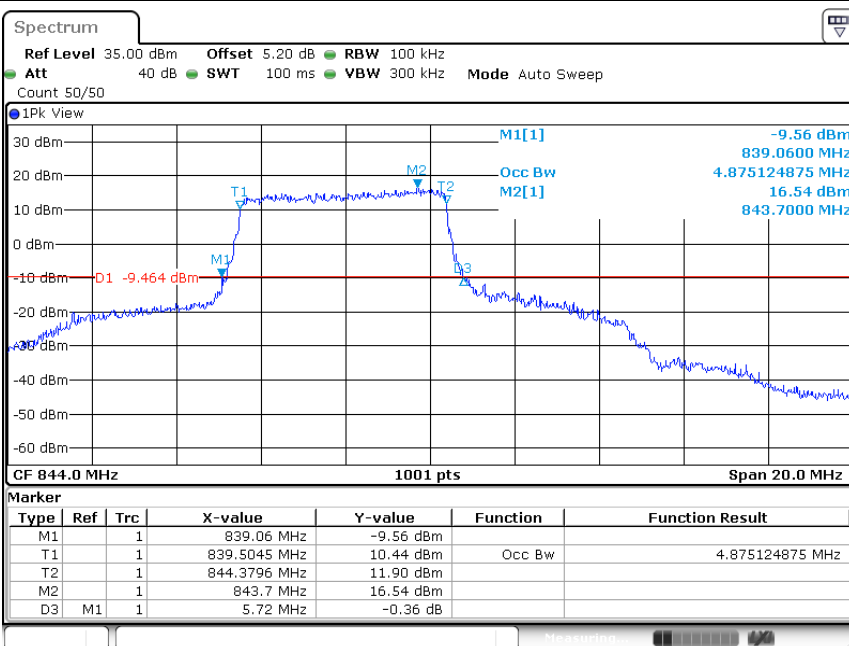


Band5-10MHz-16QAM-20525-27RB#0-4.875



Date:18 NOV.2020 11:30:40

Band5-10MHz-16QAM-20600-27RB#0-4.875

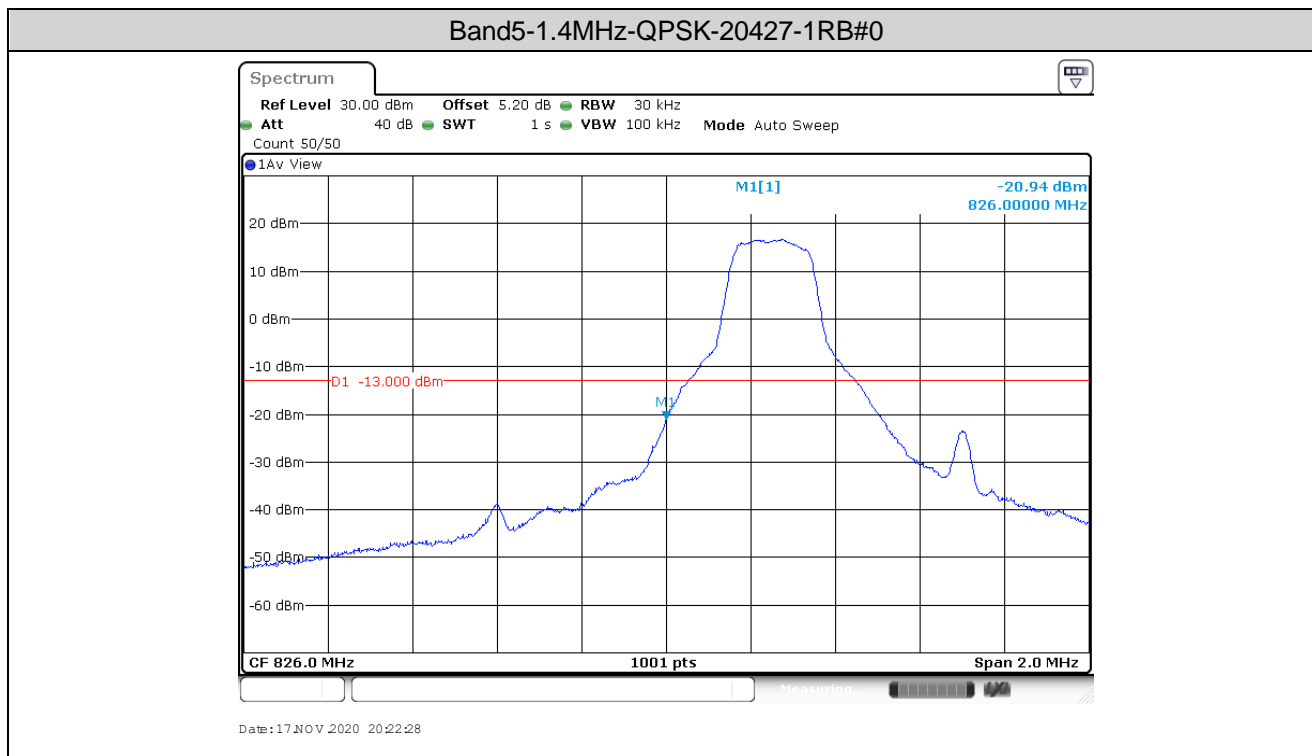


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5 Band Edge Compliance

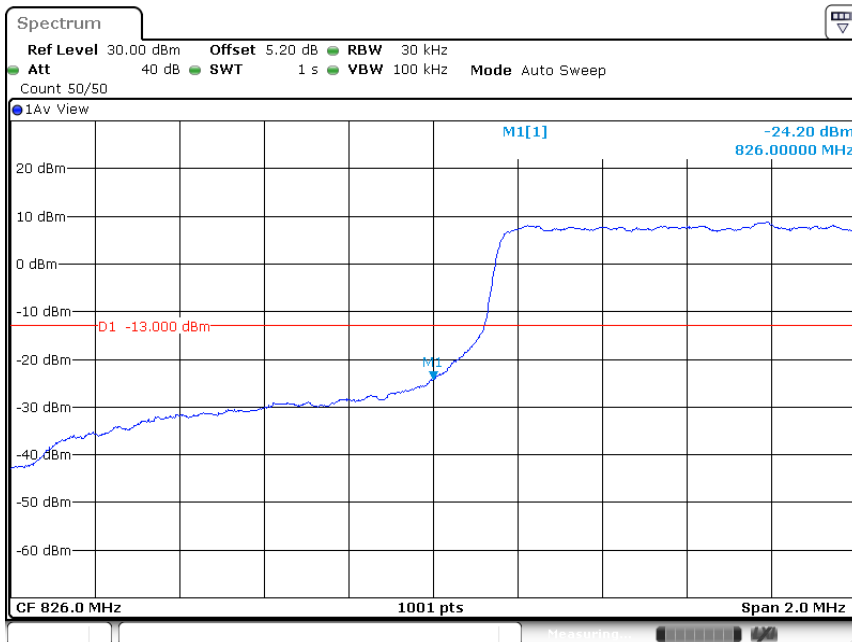
5.1 Test Plots



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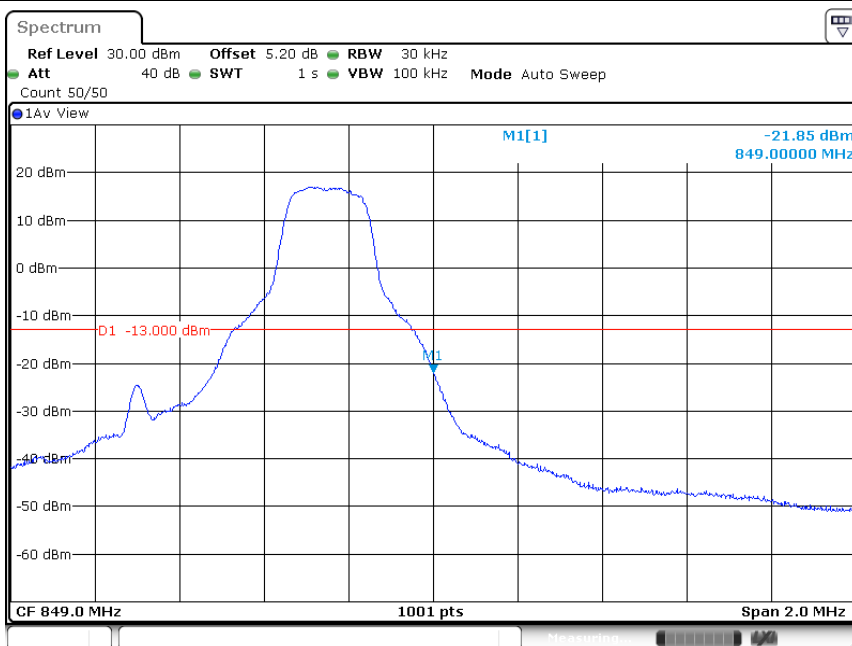
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Band5-1.4MHz-QPSK-20427-6RB#0



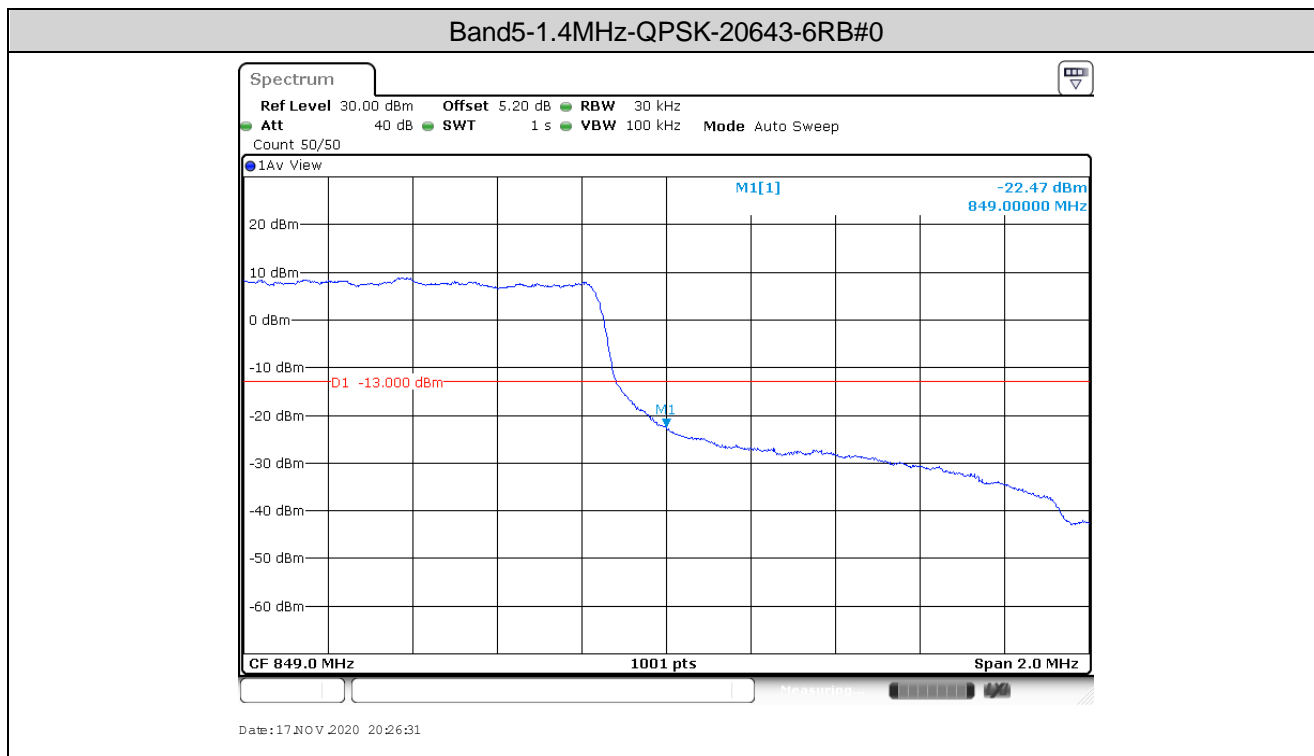
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Band5-1.4MHz-QPSK-20643-1RB#5



Date: 17 NOV 2020 20:25:12

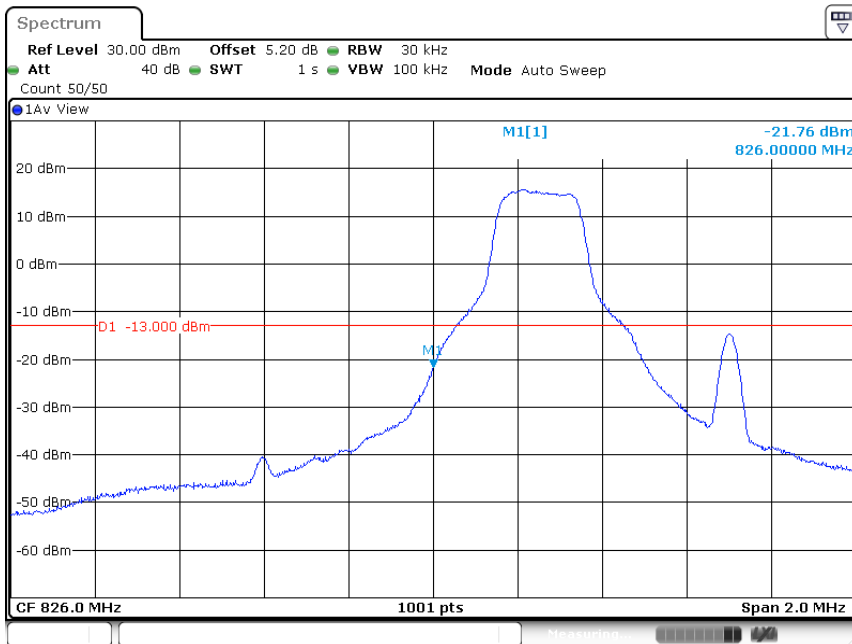




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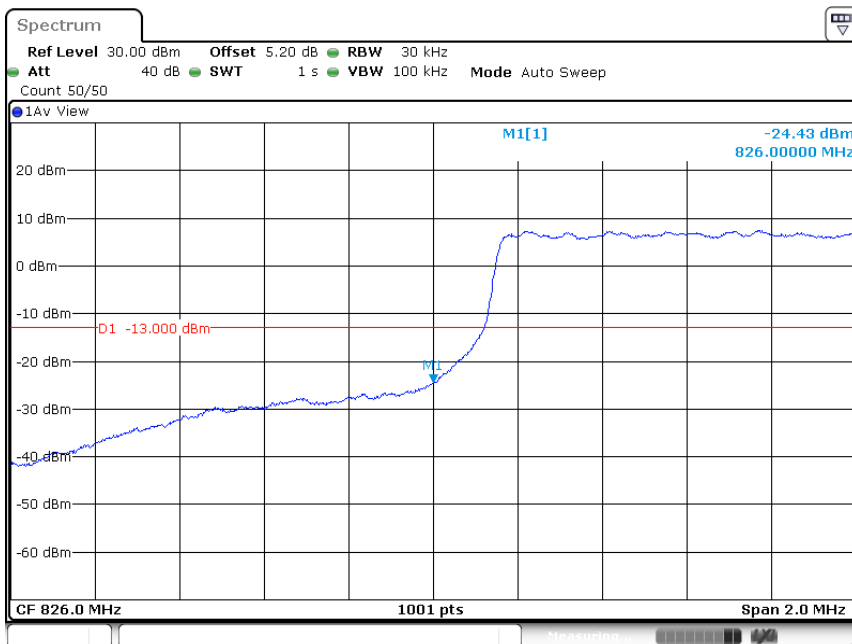
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Band5-1.4MHz-16QAM-20427-1RB#0



Date: 18 NOV 2020 11:32:25

Band5-1.4MHz-16QAM-20427-6RB#0



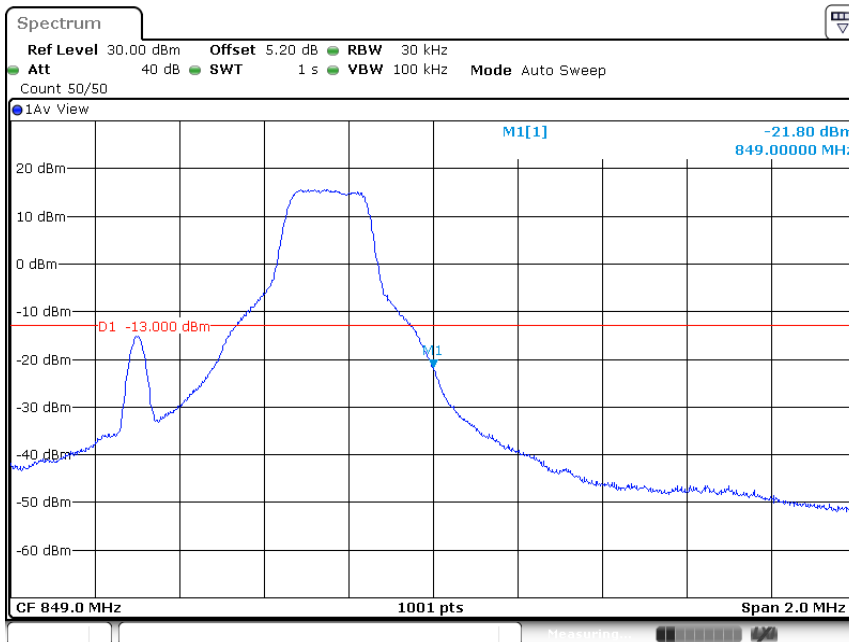
Date: 18 NOV 2020 11:33:43



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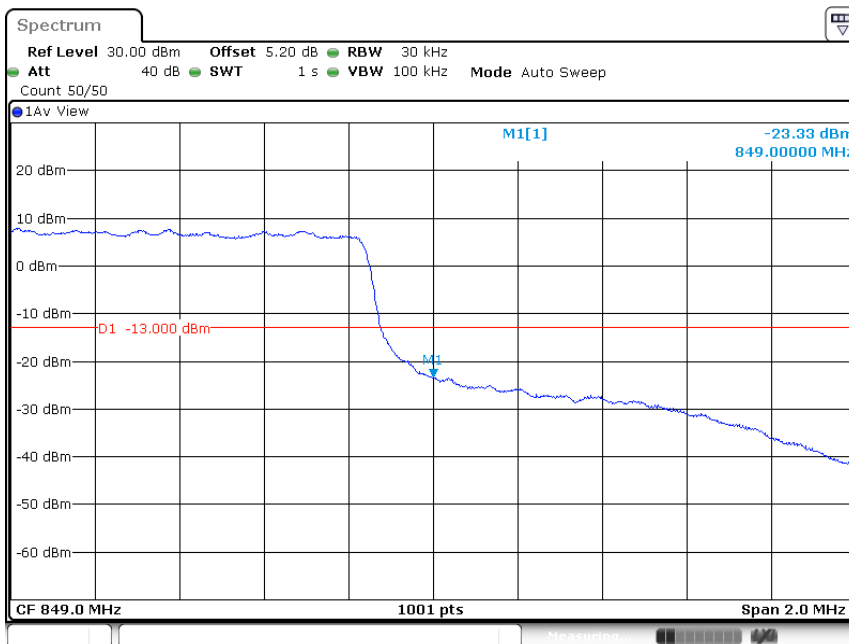
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Band5-1.4MHz-16QAM-20643-1RB#5



Date: 18 NOV 2020 11:35:09

Band5-1.4MHz-16QAM-20643-6RB#0



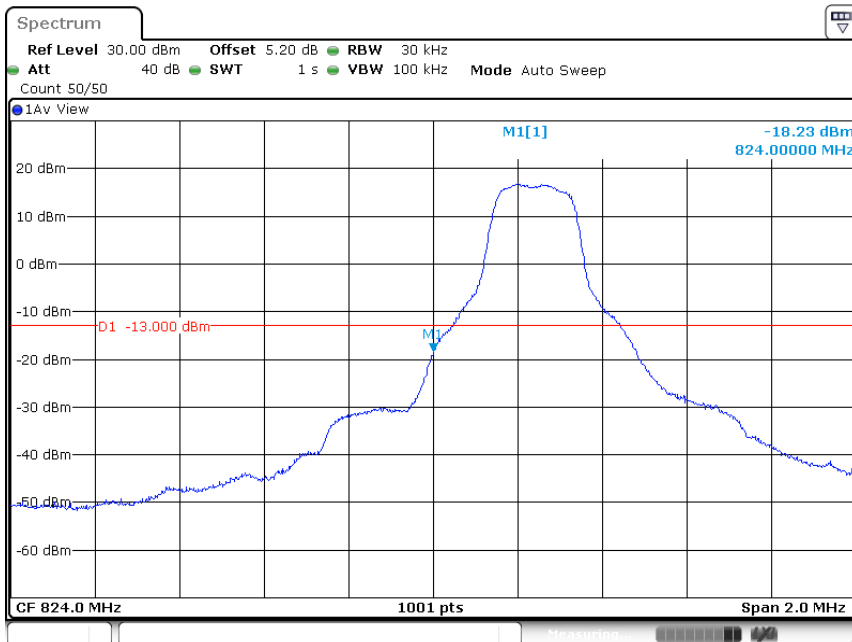
Date: 18 NOV 2020 11:36:27



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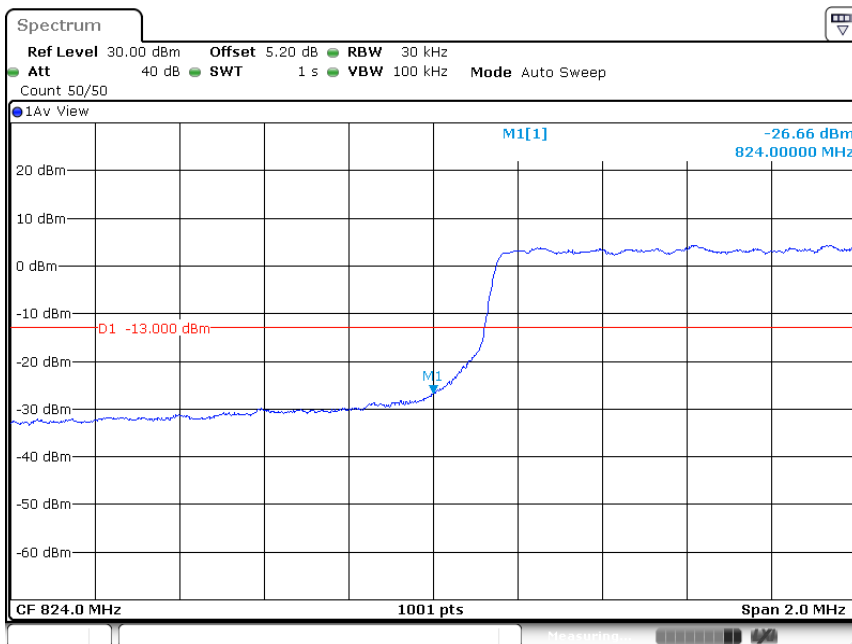
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Band5-3MHz-QPSK-20415-1RB#0



Date: 17 NOV 2020 20:27:57

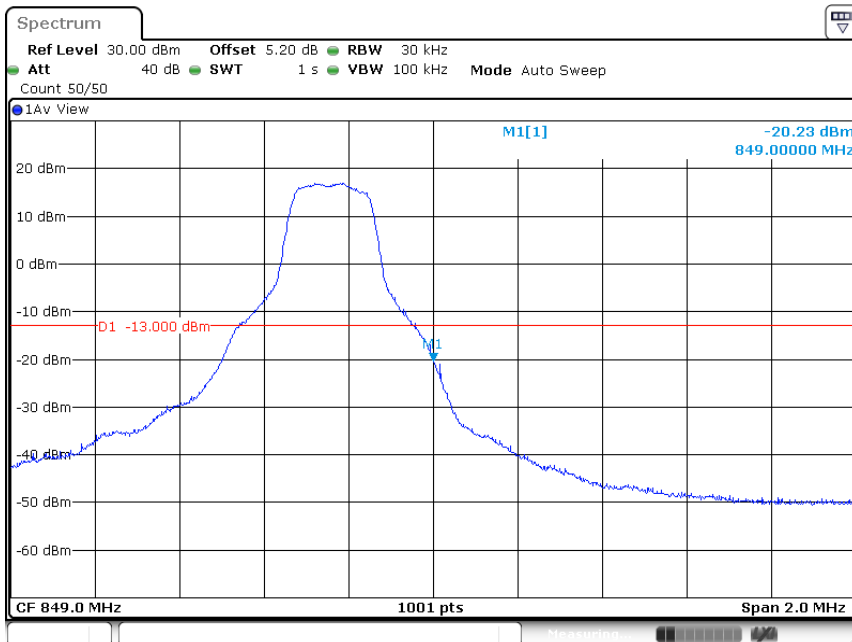
Band5-3MHz-QPSK-20415-15RB#0



Date: 17 NOV 2020 20:29:15

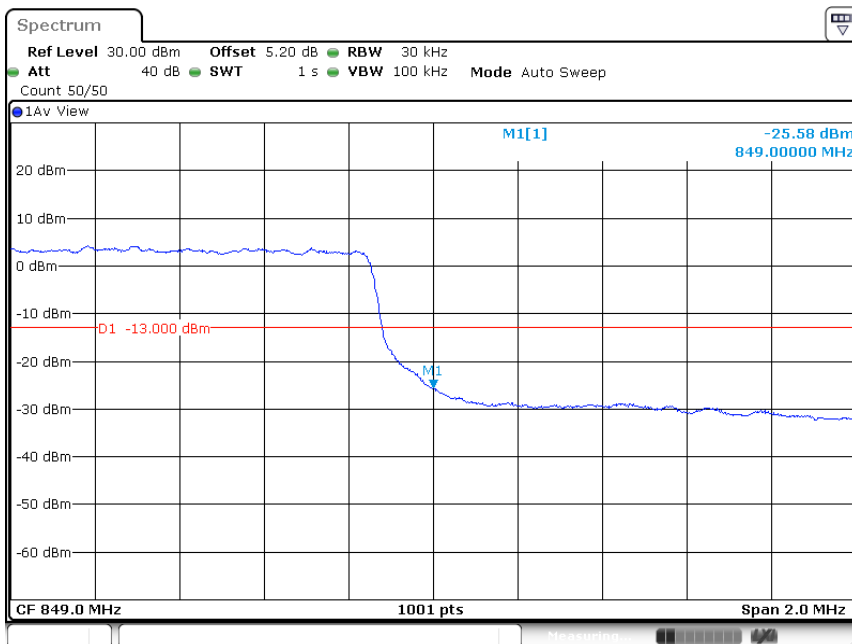


Band5-3MHz-QPSK-20635-1RB#14



Date: 17 NOV 2020 20:30:41

Band5-3MHz-QPSK-20635-15RB#0



Date: 17 NOV 2020 20:31:59



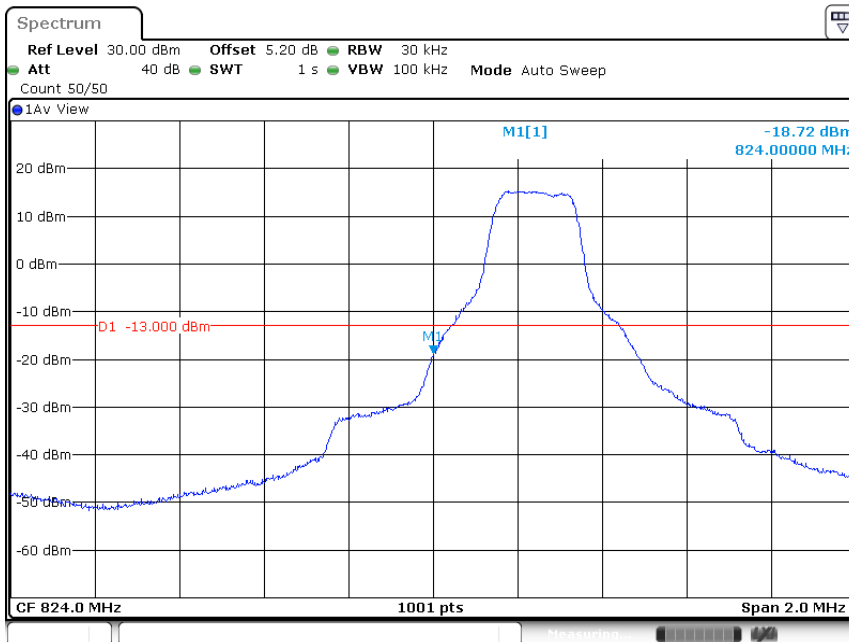
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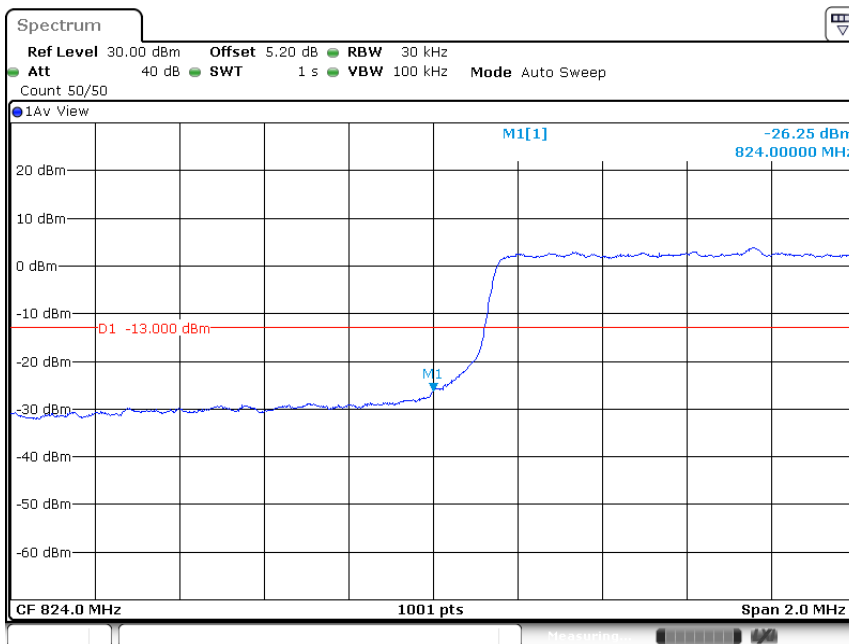
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Band5-3MHz-16QAM-20415-1RB#0



Date: 18 NOV 2020 11:37:54

Band5-3MHz-16QAM-20415-15RB#0



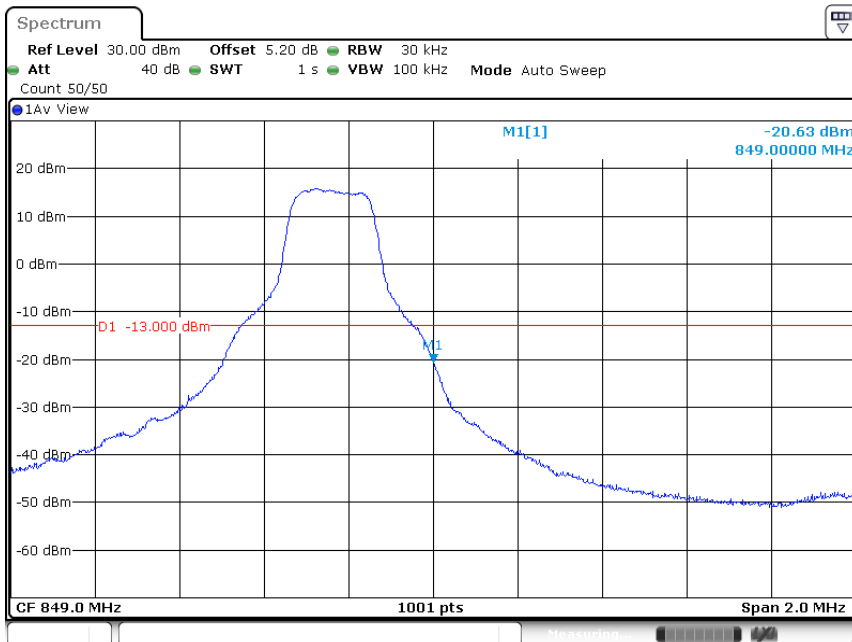
Date: 18 NOV 2020 11:39:12



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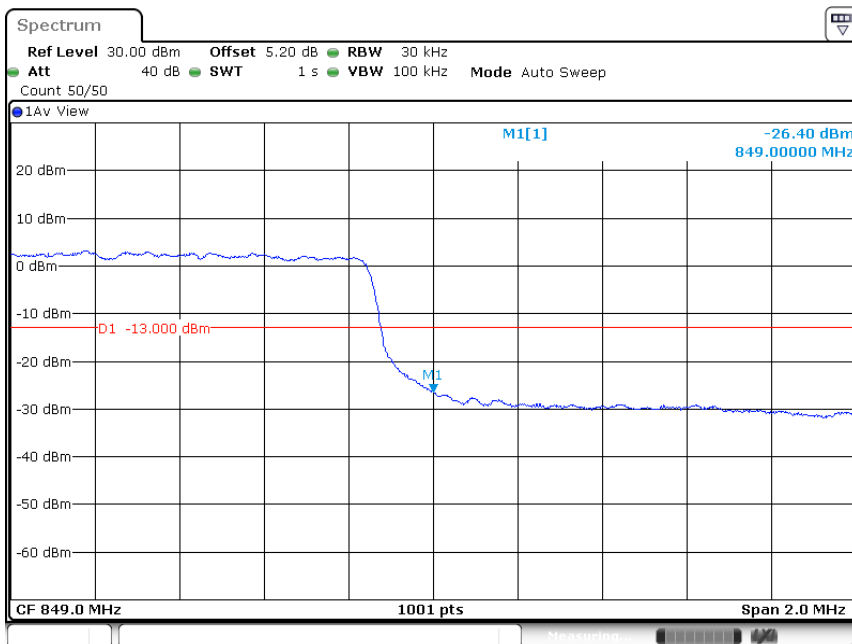
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Band5-3MHz-16QAM-20635-1RB#14



Date: 18 NOV 2020 11:40:38

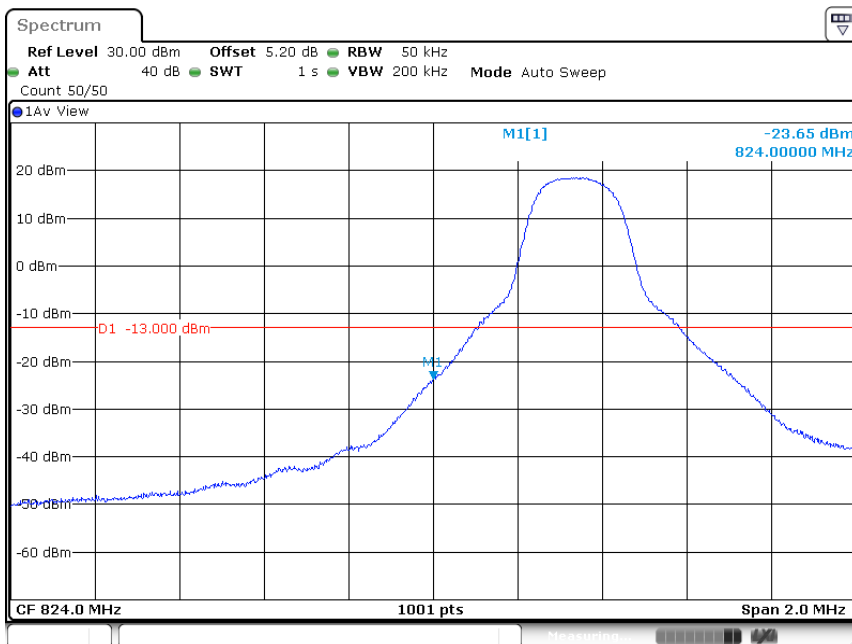
Band5-3MHz-16QAM-20635-15RB#0



Date: 18 NOV 2020 11:41:56

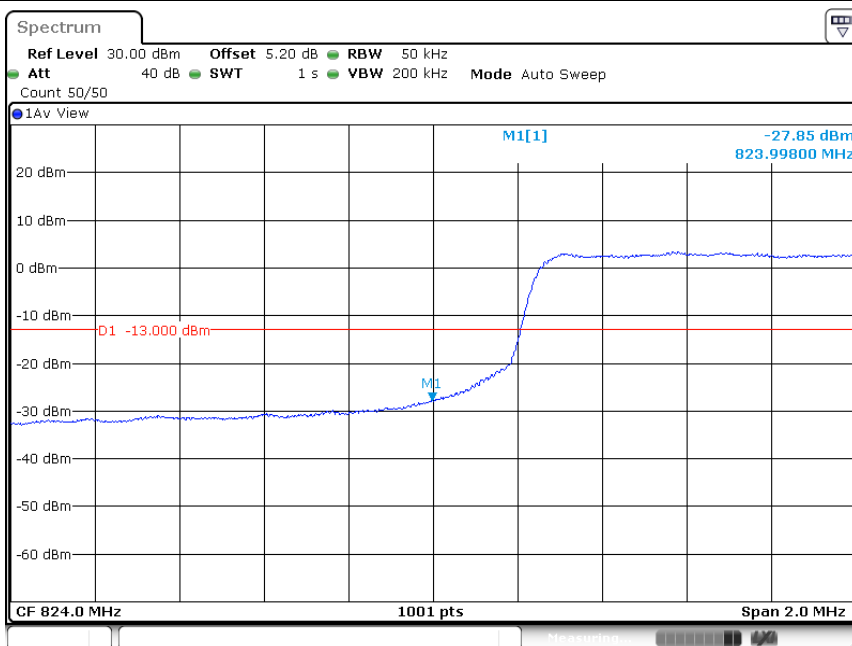


Band5-5MHz-QPSK-20425-1RB#0



Date: 17 NOV 2020 20:33:26

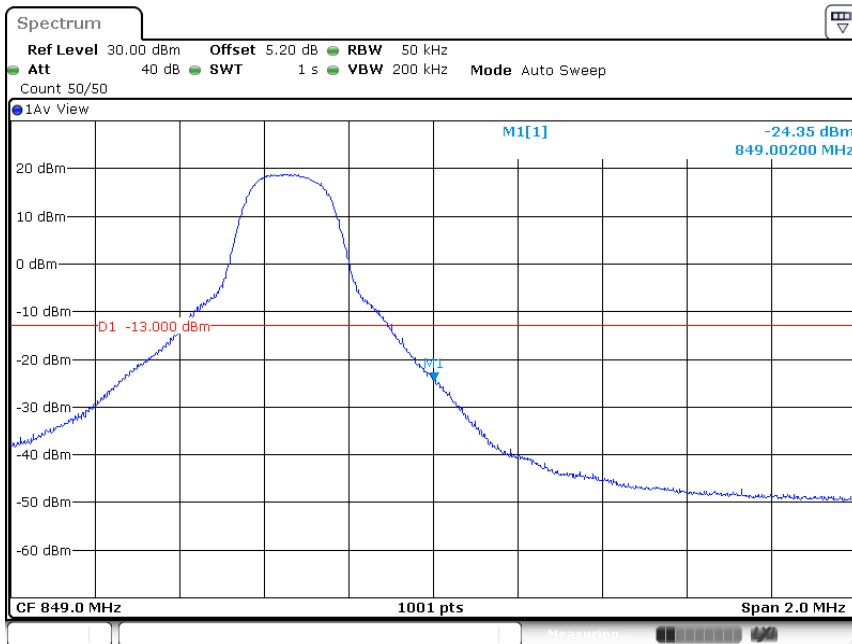
Band5-5MHz-QPSK-20425-25RB#0



Date: 17 NOV 2020 20:34:44

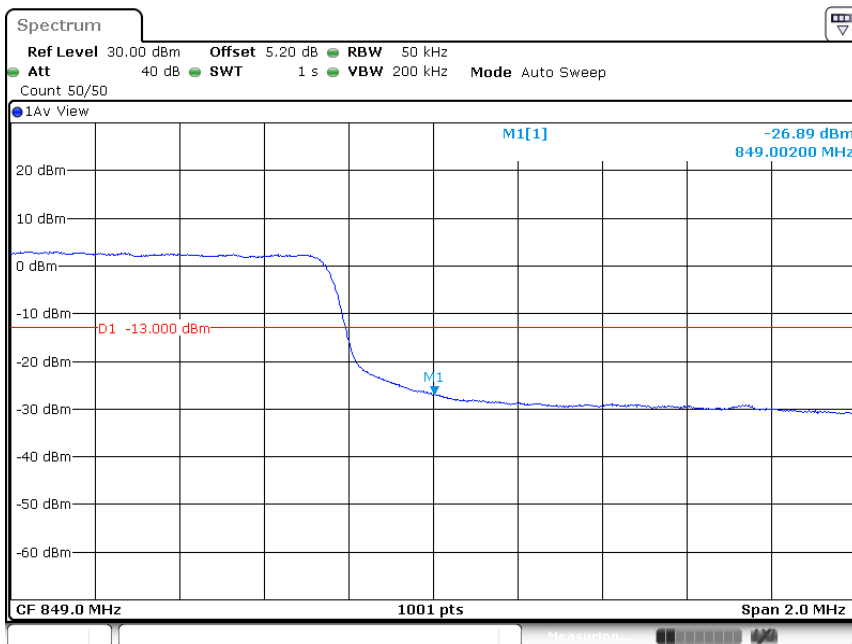


Band5-5MHz-QPSK-20625-1RB#24



Date: 17 NOV 2020 20:36:10

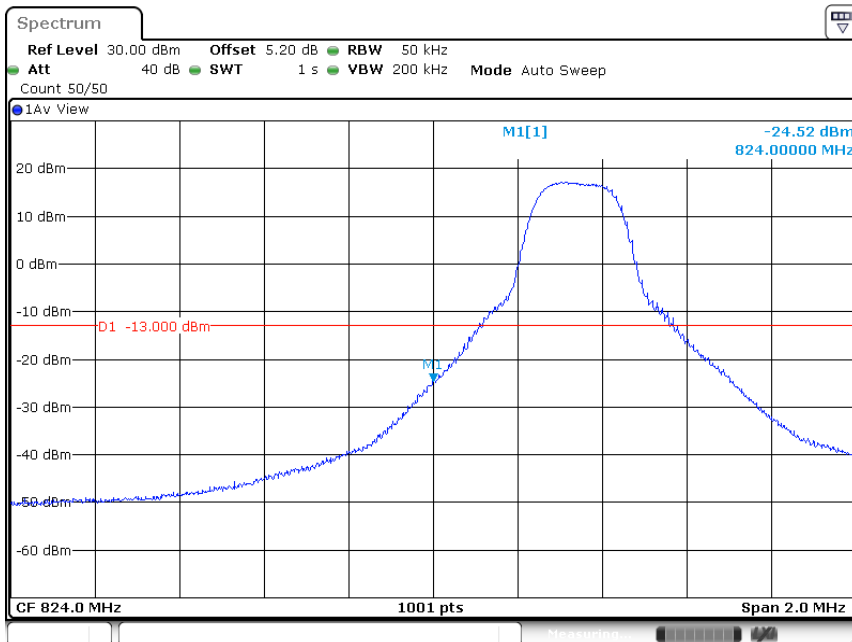
Band5-5MHz-QPSK-20625-25RB#0



Date: 17 NOV 2020 20:37:28

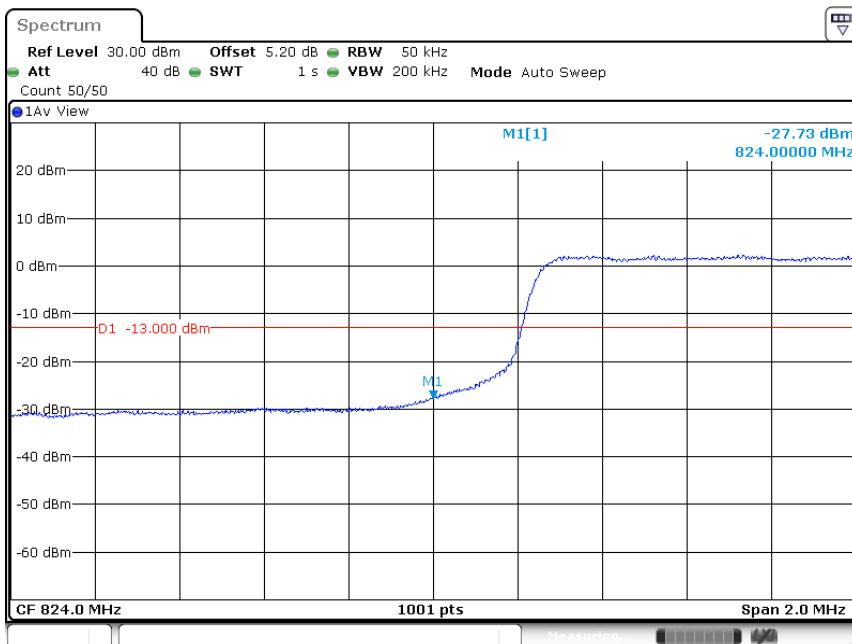


Band5-5MHz-16QAM-20425-1RB#0



Date: 18 NOV 2020 11:43:22

Band5-5MHz-16QAM-20425-25RB#0

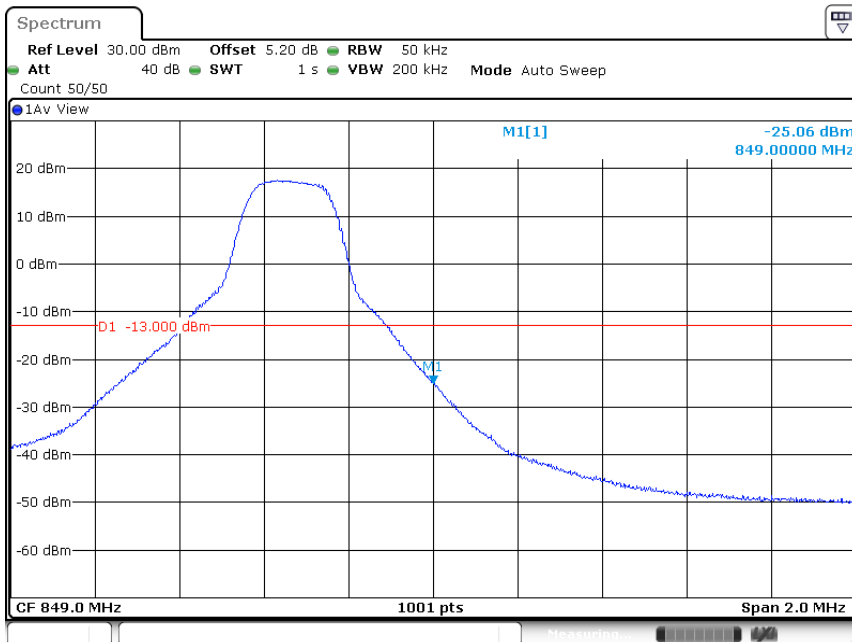


Date: 18 NOV 2020 11:44:40



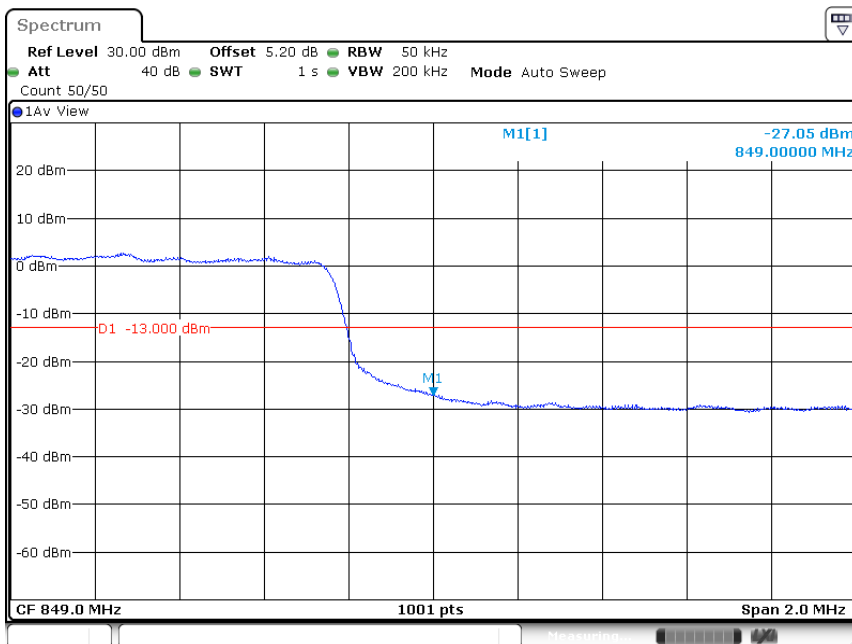
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Band5-5MHz-16QAM-20625-1RB#24



Date: 18 NOV 2020 11:46:06

Band5-5MHz-16QAM-20625-25RB#0



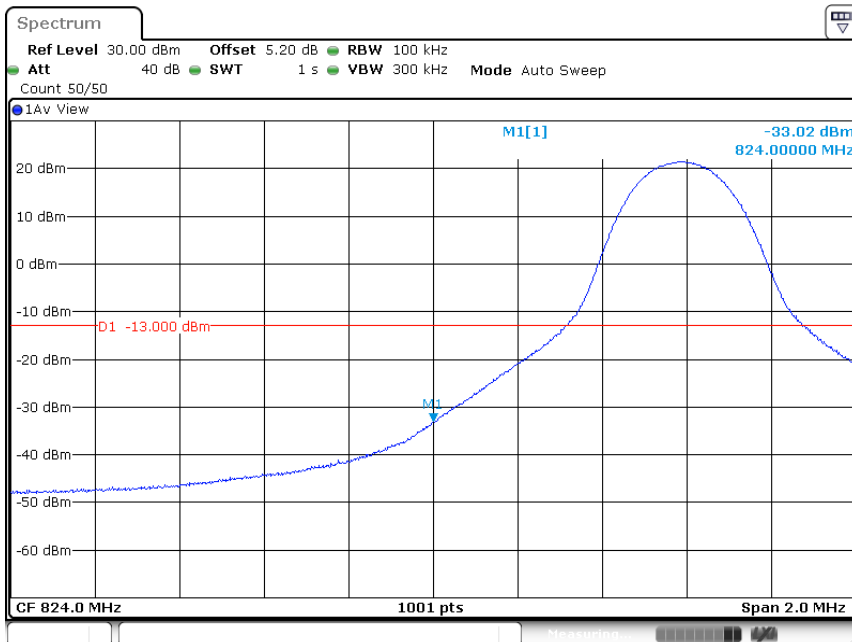
Date: 18 NOV 2020 11:47:24



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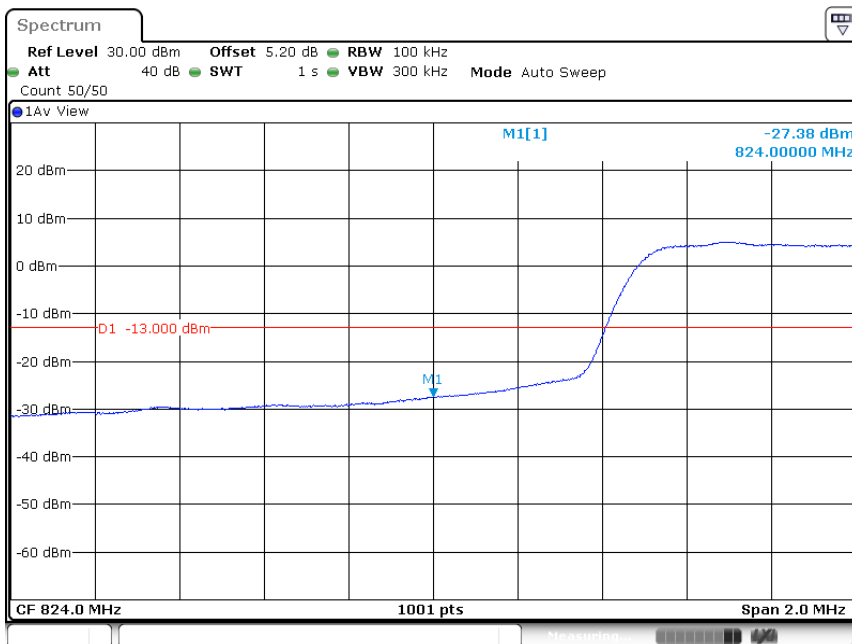
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Band5-10MHz-QPSK-20450-1RB#0



Date: 17 NOV 2020 20:38:54

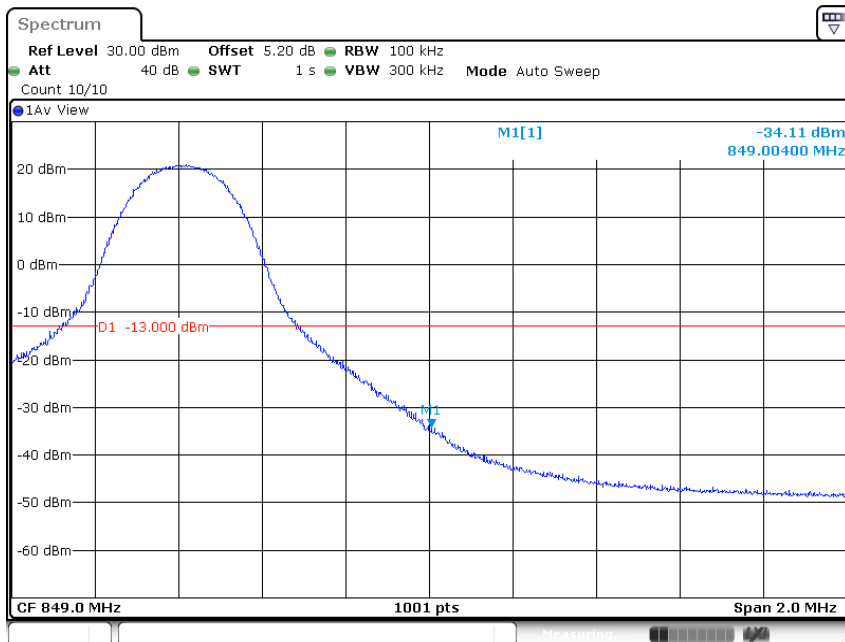
Band5-10MHz-QPSK-20450-50RB#0



Date: 17 NOV 2020 20:40:12

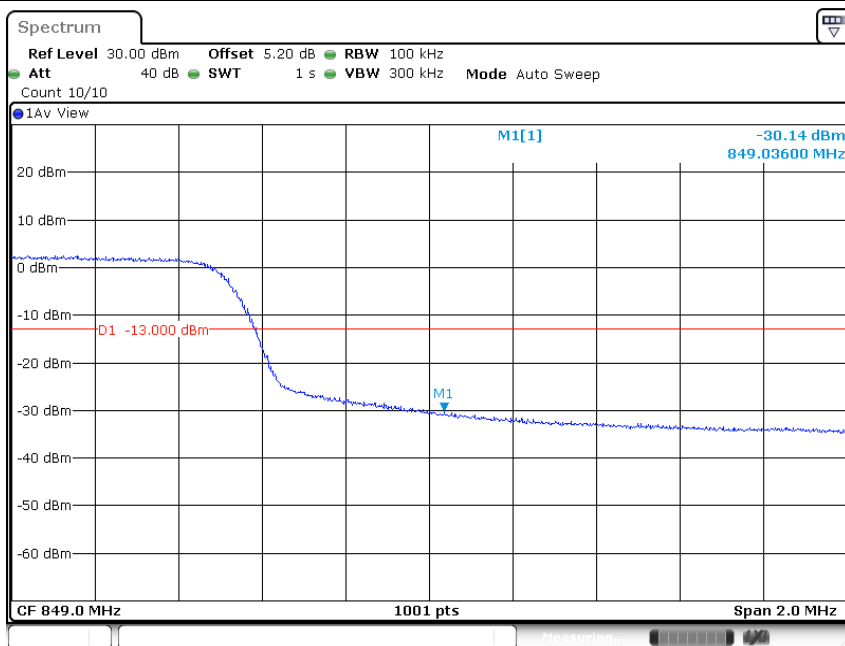


Band5-10MHz-QPSK-20600-1RB#49



Date: 23 NOV 2020 20:53:12

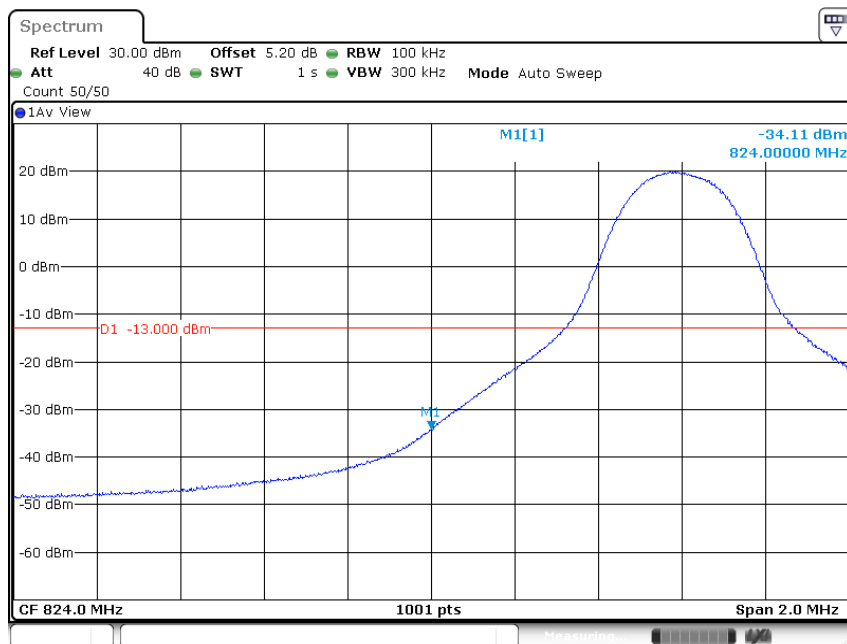
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Date: 23 NOV 2020 20:53:32

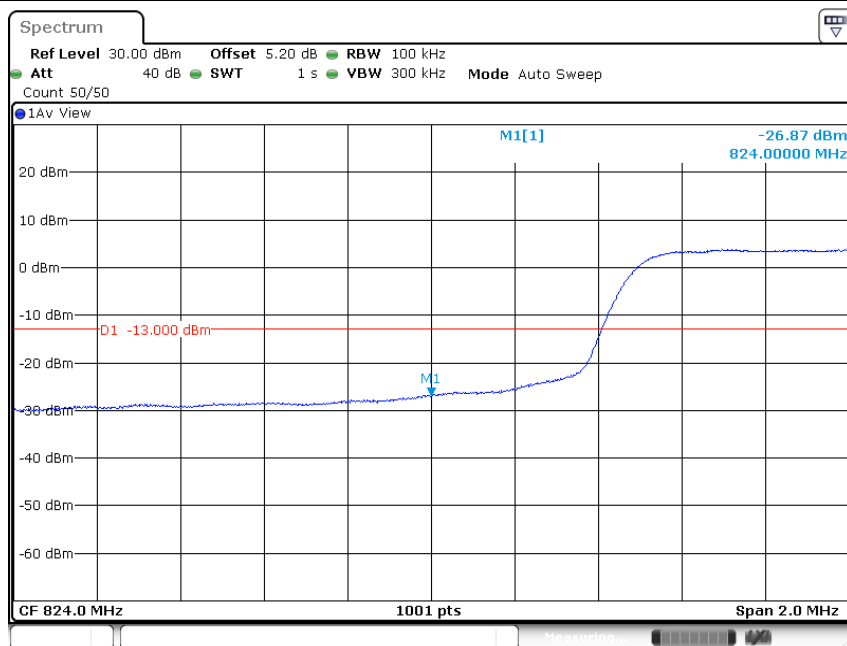


Band5-10MHz-16QAM-20450-1RB#0



Date: 18 NOV 2020 11:48:51

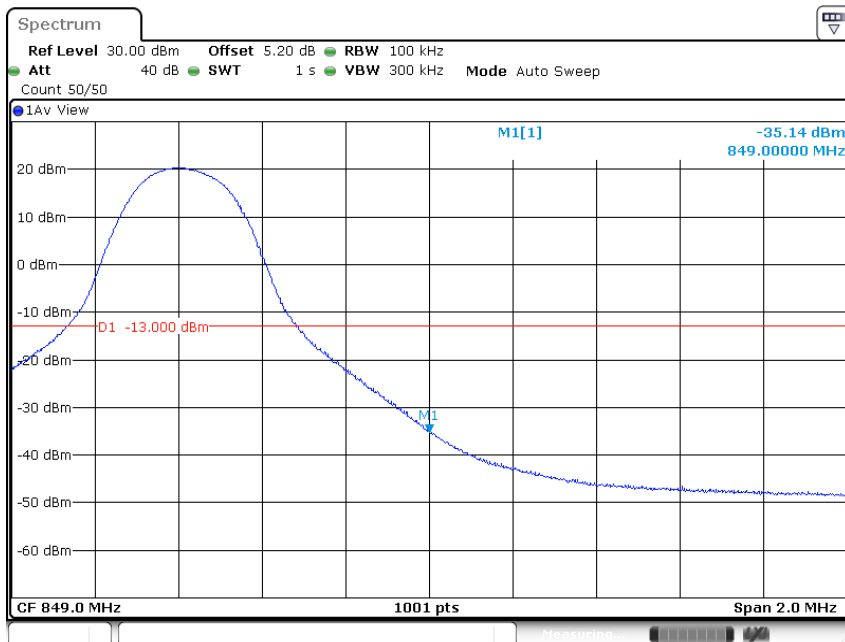
Band5-10MHz-16QAM-20450-27RB#0



Date: 18 NOV 2020 11:50:09

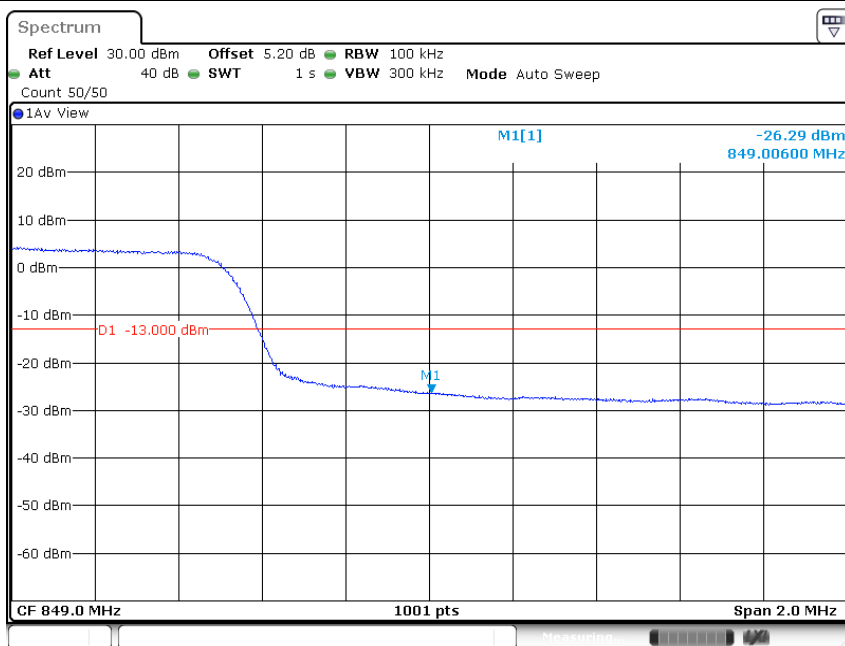


Band5-10MHz-16QAM-20600-1RB#49



Date: 18 NOV 2020 11:51:35

Band5-10MHz-16QAM-20600-27RB#23



Date: 18 NOV 2020 11:52:53

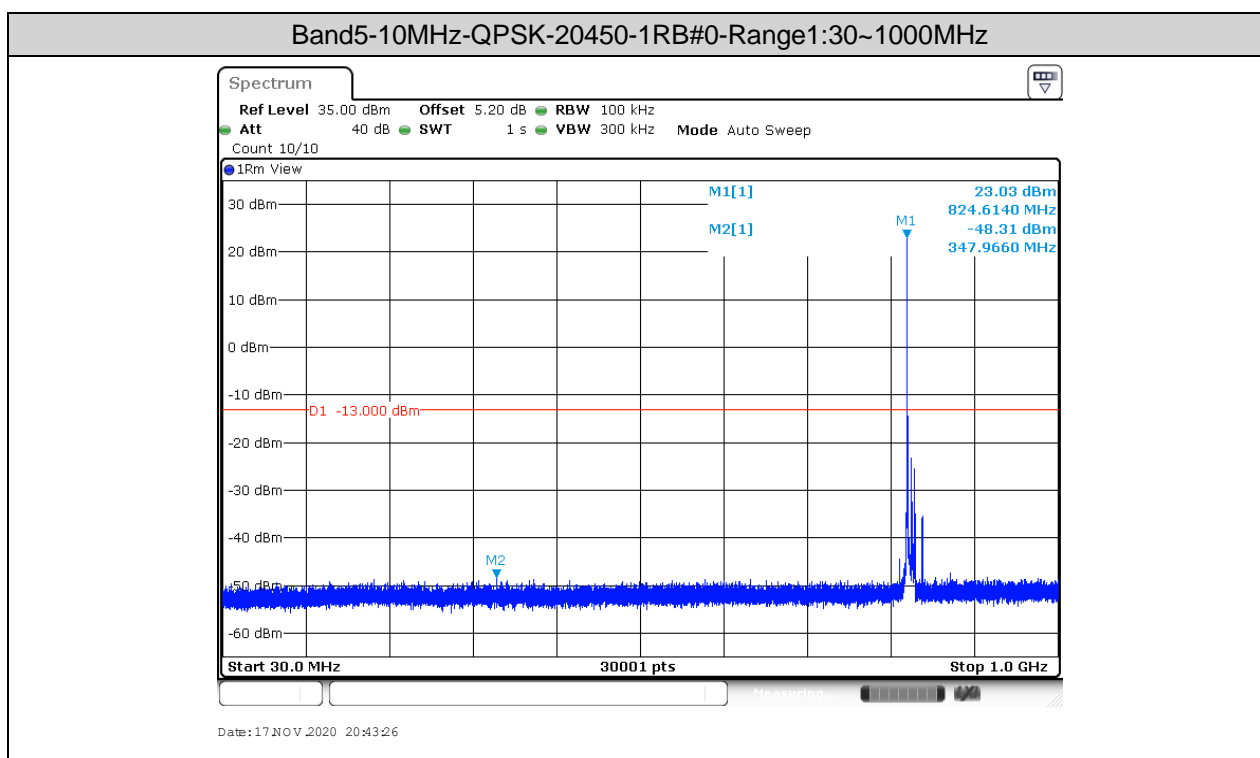


6 Spurious Emission at Antenna Terminal

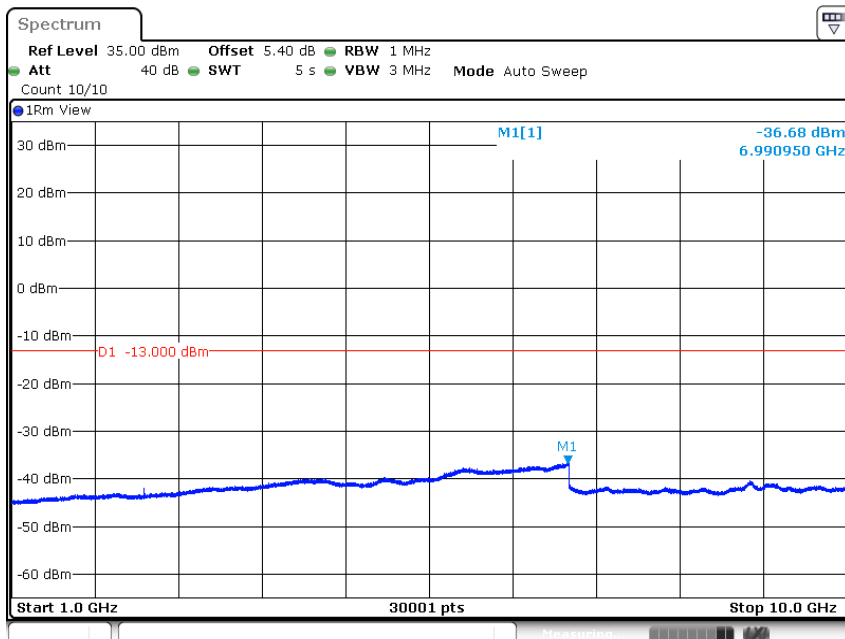
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

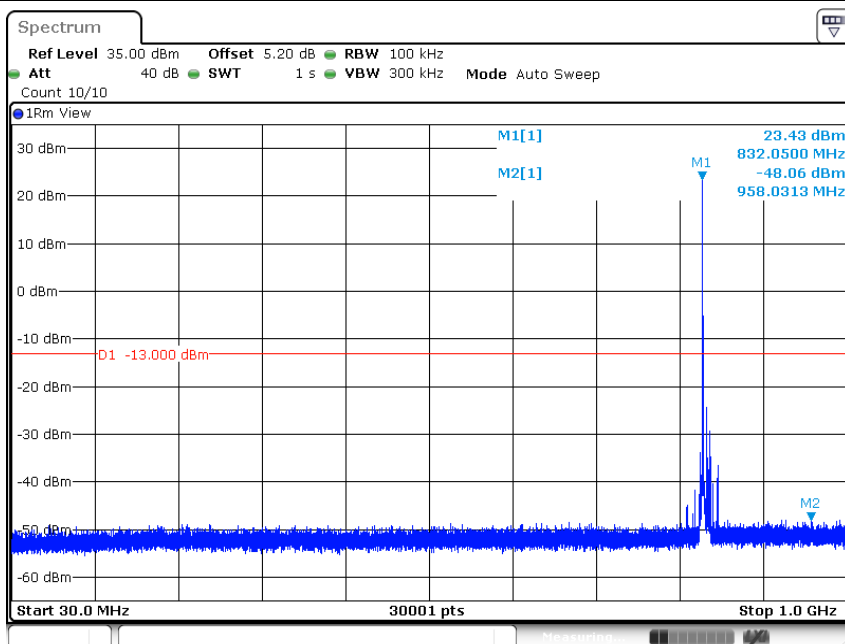


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 20:44:37

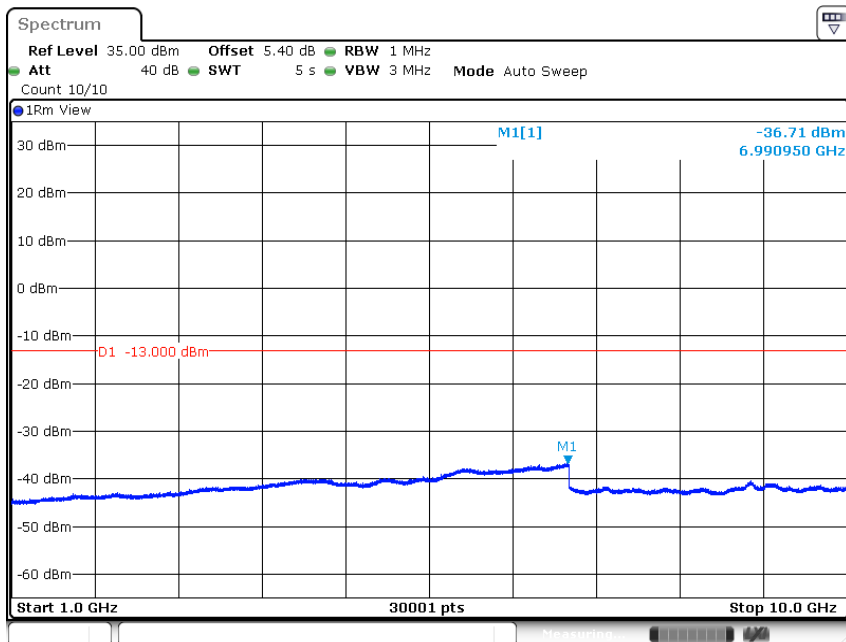
Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



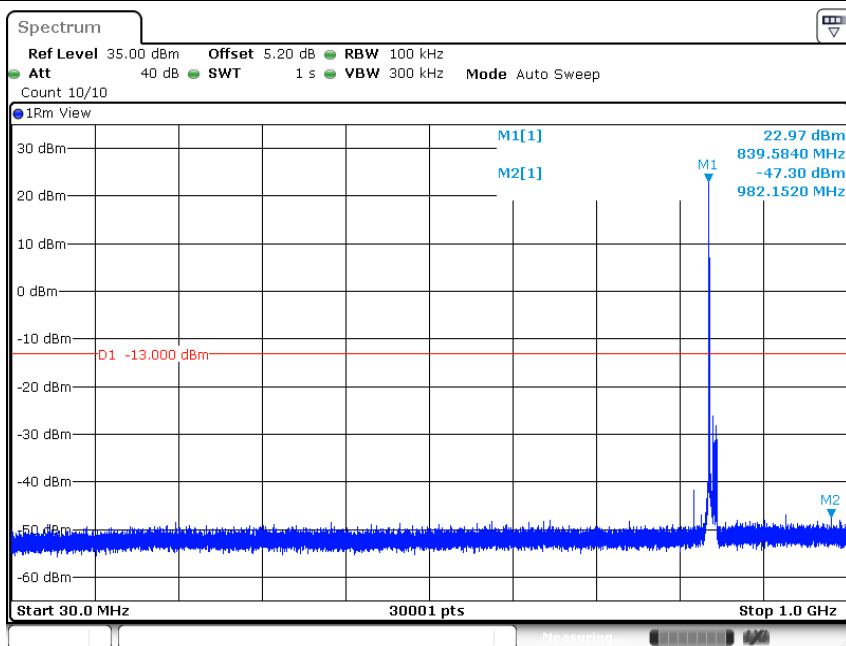
Date: 17 NOV 2020 20:45:02



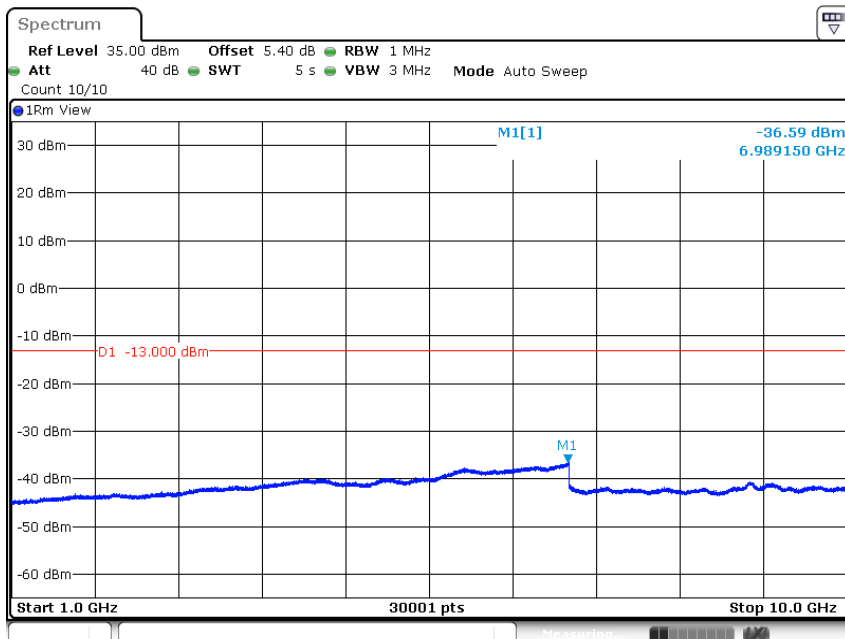
Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

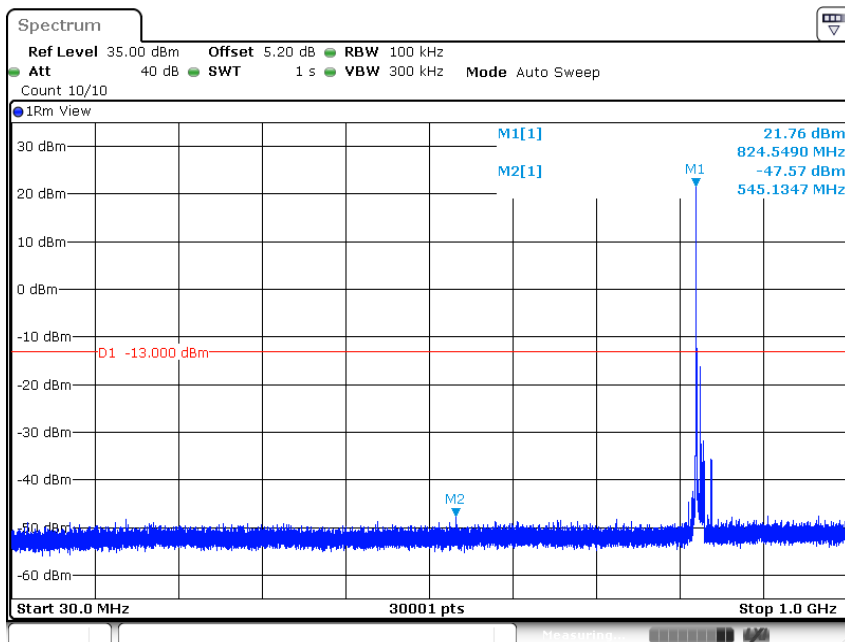


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 20:47:50

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 11:59:33



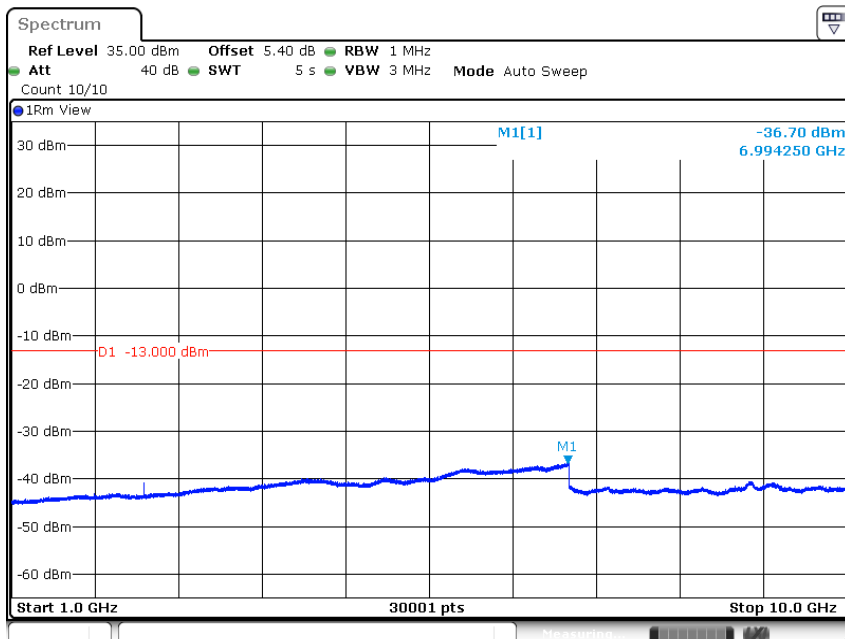
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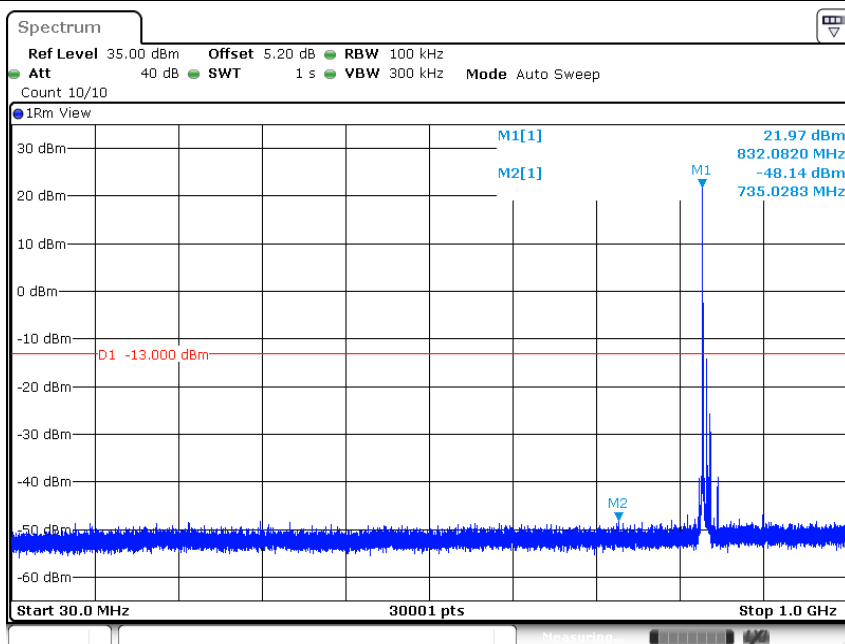
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Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 18 NOV 2020 12:00:44

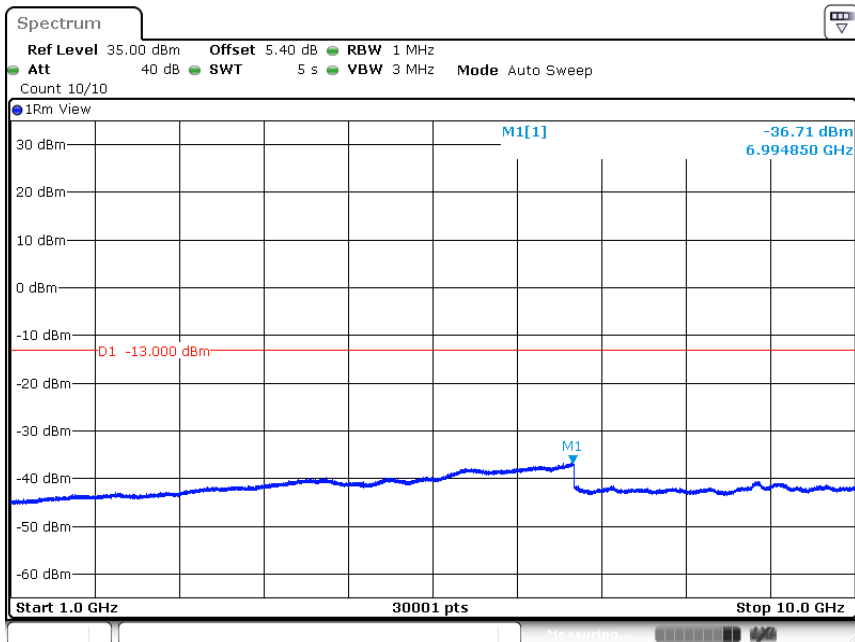
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 12:01:09

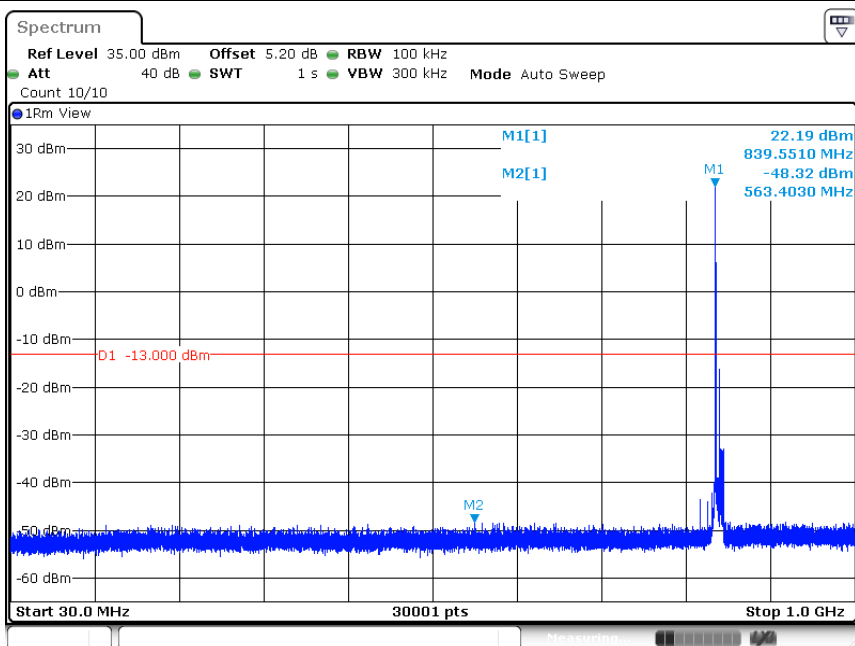


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



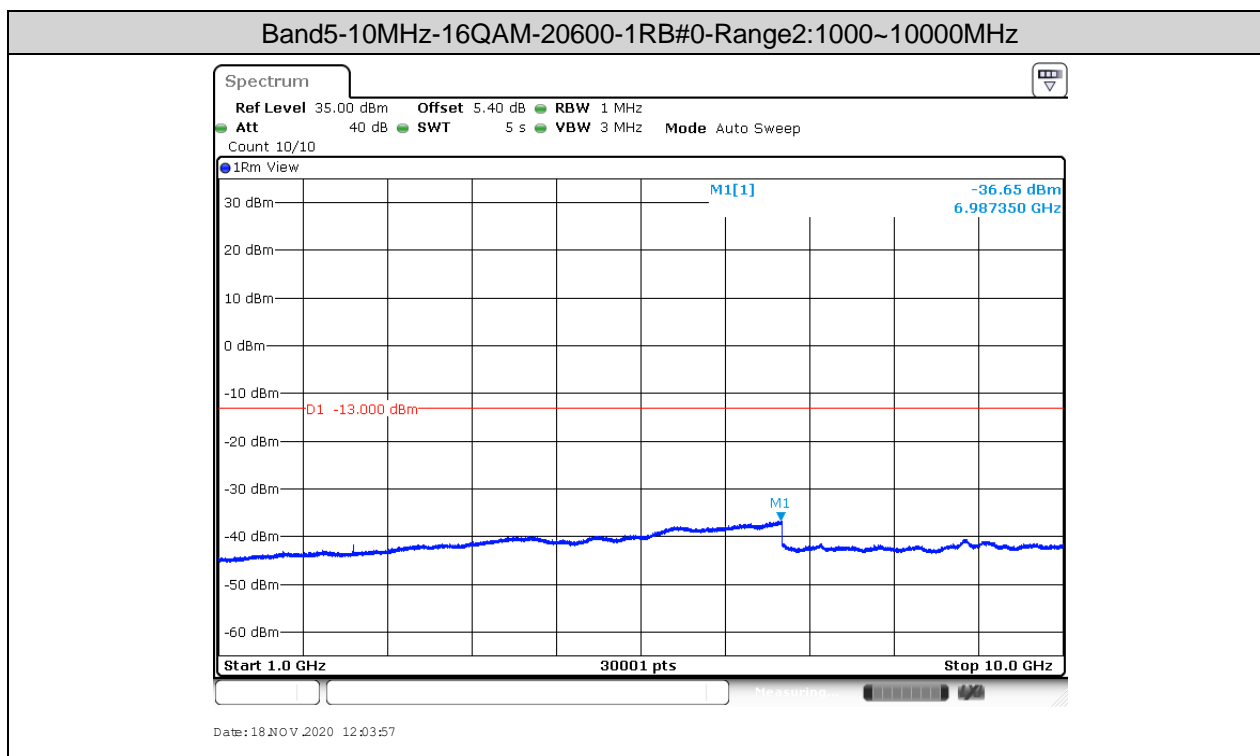
Date: 18 NOV 2020 12:02:20

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 12:02:46





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7 Field Strength of Spurious Radiation

7.1 Test Mode =LTE/TM1 10MHz

7.1.1 Test Channel = LCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.7818	-57.14	-13.00	44.14	261	225	Horizontal
118.9534	-67.35	-13.00	54.35	115	288	Horizontal
238.1239	-63.65	-13.00	50.65	196	162	Horizontal
1648.9298	-56.84	-13.00	43.84	137	318	Horizontal
2473.8948	-47.45	-13.00	34.45	216	70	Horizontal
9338.2446	-52.78	-13.00	39.78	294	130	Horizontal
52.5051	-57.23	-13.00	44.23	266	257	Vertical
119.0505	-58.65	-13.00	45.65	237	320	Vertical
339.1545	-66.08	-13.00	53.08	196	352	Vertical
1669.7339	-64.22	-13.00	51.22	222	184	Vertical
2473.4947	-51.07	-13.00	38.07	111	340	Vertical
9300.9100	-52.65	-13.00	39.65	187	99	Vertical

7.1.2 Test Channel = MCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.7818	-58.32	-13.00	45.32	196	226	Horizontal
120.9906	-65.49	-13.00	52.49	132	289	Horizontal
245.2538	-64.17	-13.00	51.17	174	162	Horizontal
1664.1328	-61.21	-13.00	48.21	252	258	Horizontal
2496.2993	-46.82	-13.00	33.82	269	75	Horizontal
9310.2437	-52.63	-13.00	39.63	188	35	Horizontal
30.3880	-64.01	-13.00	51.01	216	162	Vertical
118.8564	-57.43	-13.00	44.43	114	320	Vertical
376.5983	-65.51	-13.00	52.51	238	320	Vertical
1664.1328	-63.20	-13.00	50.20	169	4	Vertical
2496.2993	-51.78	-13.00	38.78	108	79	Vertical
9549.1850	-52.46	-13.00	39.46	294	351	Vertical



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7.1.3 Test Channel = HCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
44.9872	-57.74	-13.00	44.74	163	193	Horizontal
120.8935	-66.53	-13.00	53.53	252	256	Horizontal
243.3137	-64.10	-13.00	51.10	174	98	Horizontal
1678.9358	-58.27	-13.00	45.27	221	310	Horizontal
2519.1038	-48.43	-13.00	35.43	295	85	Horizontal
9287.8429	-52.55	-13.00	39.55	186	4	Horizontal
30.4365	-63.23	-13.00	50.23	163	66	Vertical
117.3529	-60.31	-13.00	47.31	111	35	Vertical
386.3473	-64.47	-13.00	51.47	262	193	Vertical
1678.9358	-62.79	-13.00	49.79	284	201	Vertical
2518.7037	-52.77	-13.00	39.77	109	312	Vertical
9894.9965	-52.22	-13.00	39.22	234	66	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8 Frequency Stability

8.1 Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VL	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VN	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VH	NT	0.60	0.000724	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VL	NT	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VN	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VH	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VL	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VN	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VH	NT	-1.10	-0.001303	±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
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-0.70	-0.000844	±2.5	PASS



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Band5	10MHz	QPSK	20450	50RB#0	NV	40	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-30	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-20	0.90	0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	0	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	10	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	30	1.00	0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	40	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	50	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-10	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	0	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	10	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	20	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	30	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	40	0.20	0.000239	±2.5	PASS



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Band5	10MHz	16QAM	20525	27RB#0	NV	50	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-30	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	0	0.80	0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	10	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	20	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	30	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	40	1.20	0.001422	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	50	-0.50	-0.000592	±2.5	PASS

The End

