



Appendix B

E-UTRA Band 5



CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1. TEST RESULT.....	3
2. PEAK-TO-AVERAGE RATIO (CCDF).....	9
2.1. TEST RESULT.....	9
2.2. TEST PLOTS.....	9
3. MODULATION CHARACTERISTICS.....	13
3.1. TEST MODE = LTE /TM1 10MHZ.....	13
3.1.1. TEST CHANNEL = MCH.....	13
3.2. TEST MODE = LTE /TM2 10MHZ.....	14
3.2.1. TEST CHANNEL = MCH.....	14
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	15
4.1. TEST RESULT.....	15
4.2. TEST PLOTS.....	16
5. BAND EDGE COMPLIANCE.....	28
5.1. TEST RESULT.....	28
5.2. TEST PLOTS.....	29
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	46
6.1. TEST PLOTS.....	46
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	53
7.1. TEST MODE =LTE/TM1 10MHZ.....	53
7.1.1. TEST CHANNEL = LCH.....	53
7.1.2. TEST CHANNEL = MCH.....	53
7.1.3. TEST CHANNEL = HCH.....	54
8. FREQUENCY STABILITY.....	55
8.1. FREQUENCY VS VOLTAGE.....	55
8.2. FREQUENCY VS TEMPERATURE.....	55



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.68	23.03	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.00	23.35	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.73	23.08	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.63	22.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.76	23.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.00	21.35	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.71	22.06	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.31	22.66	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.45	21.8	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.52	22.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.21	22.56	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.29	22.64	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.00	22.35	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.09	21.44	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.99	22.34	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.59	21.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.17	22.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.23	22.58	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.16	22.51	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.96	24.31	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.96	21.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.96	22.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.24	22.59	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.91	22.26	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.90	22.25	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.71	22.06	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.14	20.49	38.45	PASS



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Band5	1.4MHz	16QAM	20407	6RB#0	21.81	21.16	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.54	21.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.83	22.18	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.86	21.21	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.17	21.52	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.41	21.76	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.43	21.78	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.21	20.56	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.50	21.85	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.96	21.31	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.23	21.58	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.43	21.78	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.33	21.68	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	24.06	23.41	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.14	20.49	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.16	23.51	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.44	22.79	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.44	22.79	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.91	23.26	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	24.04	23.39	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	24.01	23.36	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.90	22.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.37	22.72	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.11	21.46	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.61	22.96	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.68	23.03	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.44	22.79	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.49	22.84	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.28	21.63	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.77	23.12	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.79	22.14	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.07	22.42	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.92	23.27	38.45	PASS



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Band5	3MHz	QPSK	20635	8RB#7	23.89	23.24	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.64	22.99	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.48	21.83	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.73	22.08	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.77	22.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.46	22.81	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.13	22.48	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.13	22.48	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.06	22.41	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.94	21.29	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.45	20.8	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.62	21.97	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.95	22.3	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.81	22.16	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.55	21.9	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.59	21.94	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.34	20.69	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.06	22.41	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.14	21.49	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.41	21.76	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	23.06	22.41	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.78	22.13	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.95	22.3	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.56	20.91	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.90	23.25	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.78	23.13	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.74	23.09	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.77	23.12	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.83	23.18	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.81	23.16	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.92	22.27	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.15	22.5	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.80	22.15	38.45	PASS



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Band5	5MHz	QPSK	20525	1RB#12	23.09	22.44	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.12	22.47	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.99	22.34	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.19	22.54	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.31	21.66	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.13	22.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.09	22.44	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.47	22.82	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.67	23.02	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.54	22.89	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.50	22.85	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.65	22	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.18	22.53	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.86	22.21	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.96	22.31	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.92	22.27	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.86	22.21	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.91	22.26	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.96	21.31	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.42	21.77	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.45	21.8	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.05	21.4	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.30	21.65	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.20	21.55	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.09	21.44	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.38	20.73	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.71	22.06	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.34	21.69	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.34	21.69	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.79	22.14	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.66	22.01	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.60	21.95	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.71	21.06	38.45	PASS



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Band5	10MHz	QPSK	20450	1RB#49	23.76	23.11	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.97	23.32	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.77	23.12	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.96	23.31	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.96	23.31	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.76	23.11	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.93	22.28	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.72	23.07	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.16	22.51	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.39	22.74	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.74	23.09	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.13	22.48	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.49	22.84	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.60	21.95	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.94	23.29	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.04	22.39	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.19	22.54	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.83	23.18	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.75	23.1	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.99	23.34	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.93	22.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.03	22.38	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.02	22.37	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.16	22.51	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.81	22.16	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	23.03	22.38	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.02	22.37	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.23	21.58	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.47	21.82	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.04	22.39	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.73	22.08	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.80	22.15	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.18	21.53	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#12	22.53	21.88	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.47	21.82	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.30	22.65	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.37	21.72	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.40	21.75	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.90	22.25	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	23.09	22.44	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.87	22.22	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.00	21.35	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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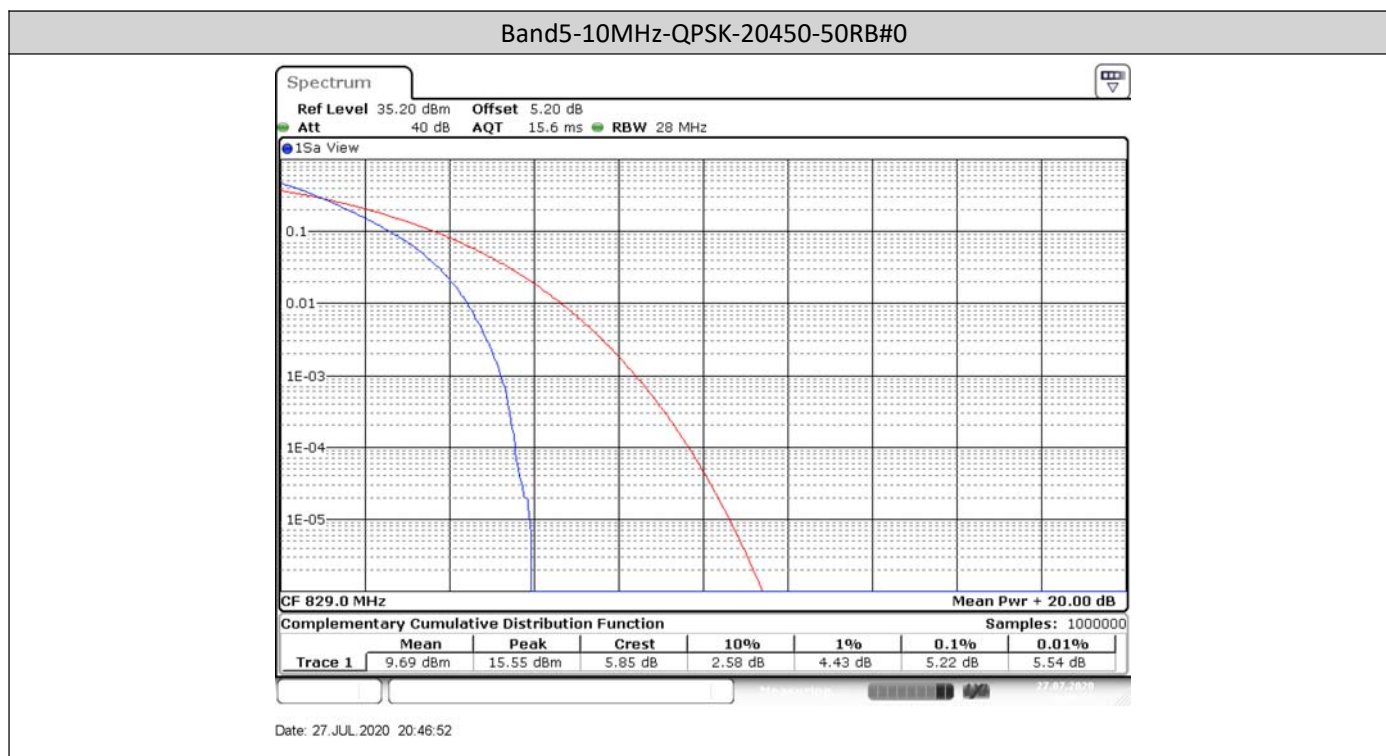
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

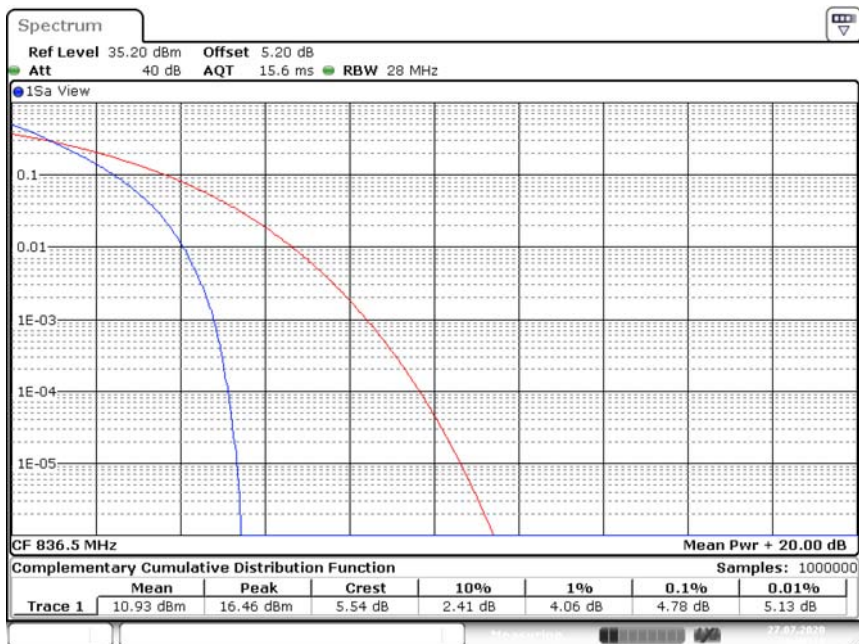
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.22	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.78	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.25	13	PASS
Band5	10MHz	16QAM	20450	32RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20525	32RB#0	5.07	13	PASS
Band5	10MHz	16QAM	20600	32RB#0	5.48	13	PASS

2.2. Test Plots



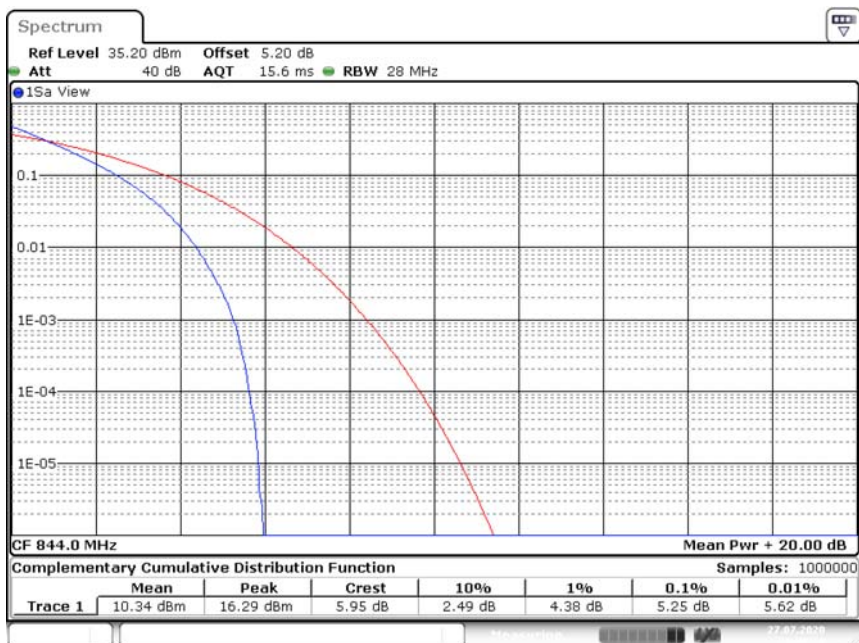


Band5-10MHz-QPSK-20525-50RB#0



Date: 27.JUL.2020 20:47:14

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

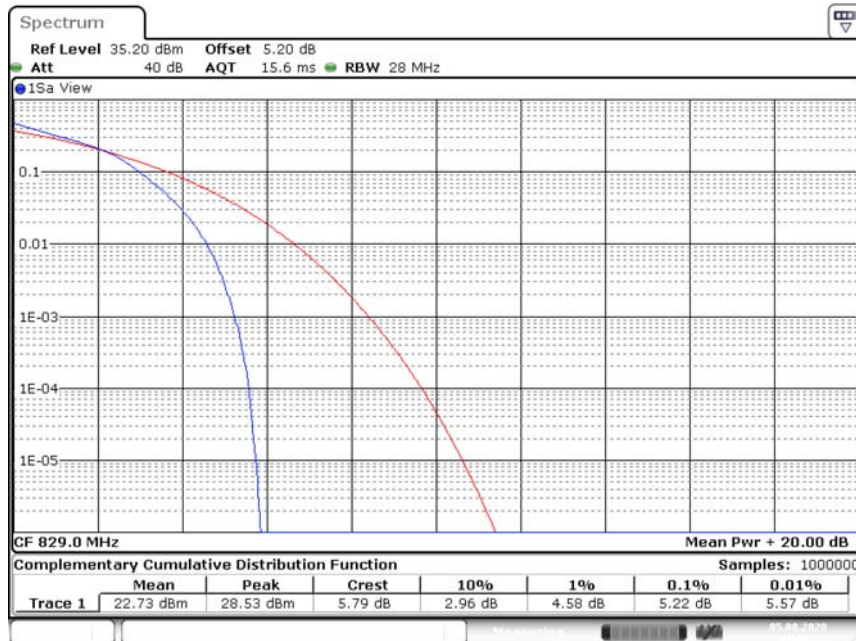


Date: 27.JUL.2020 20:47:37



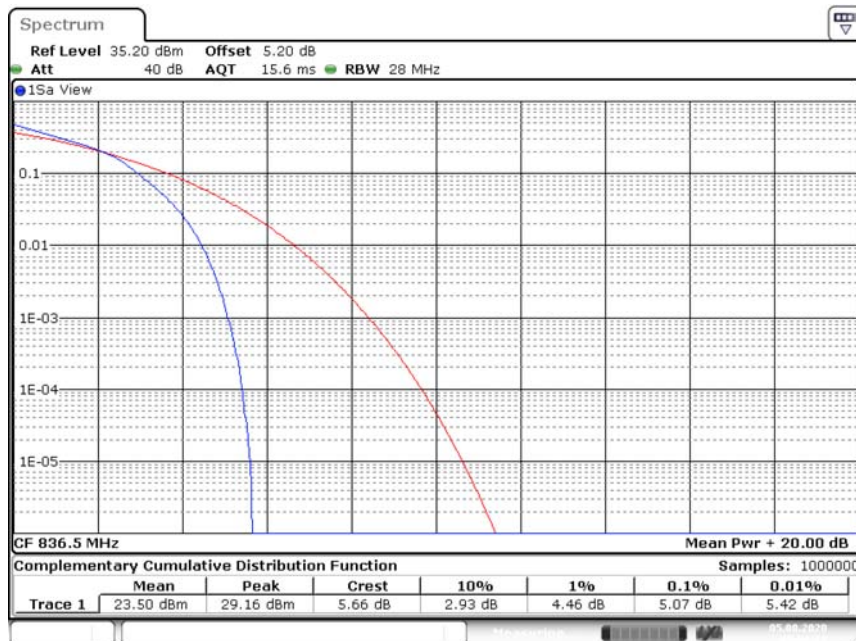


Band5-10MHz-16QAM-20450-32RB#0



Date: 5.AUG.2020 09:02:48

Band5-10MHz-16QAM-20525-32RB#0

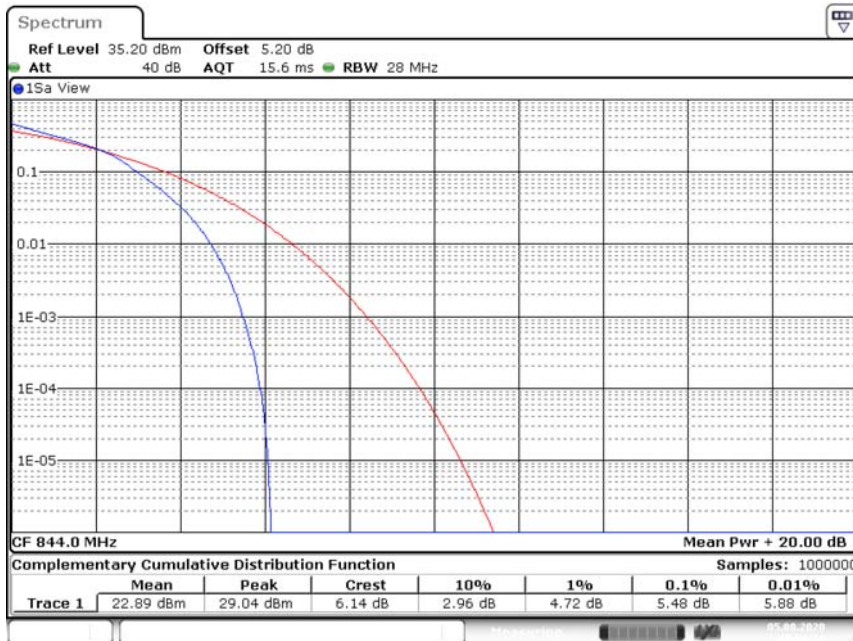


Date: 5.AUG.2020 09:03:10





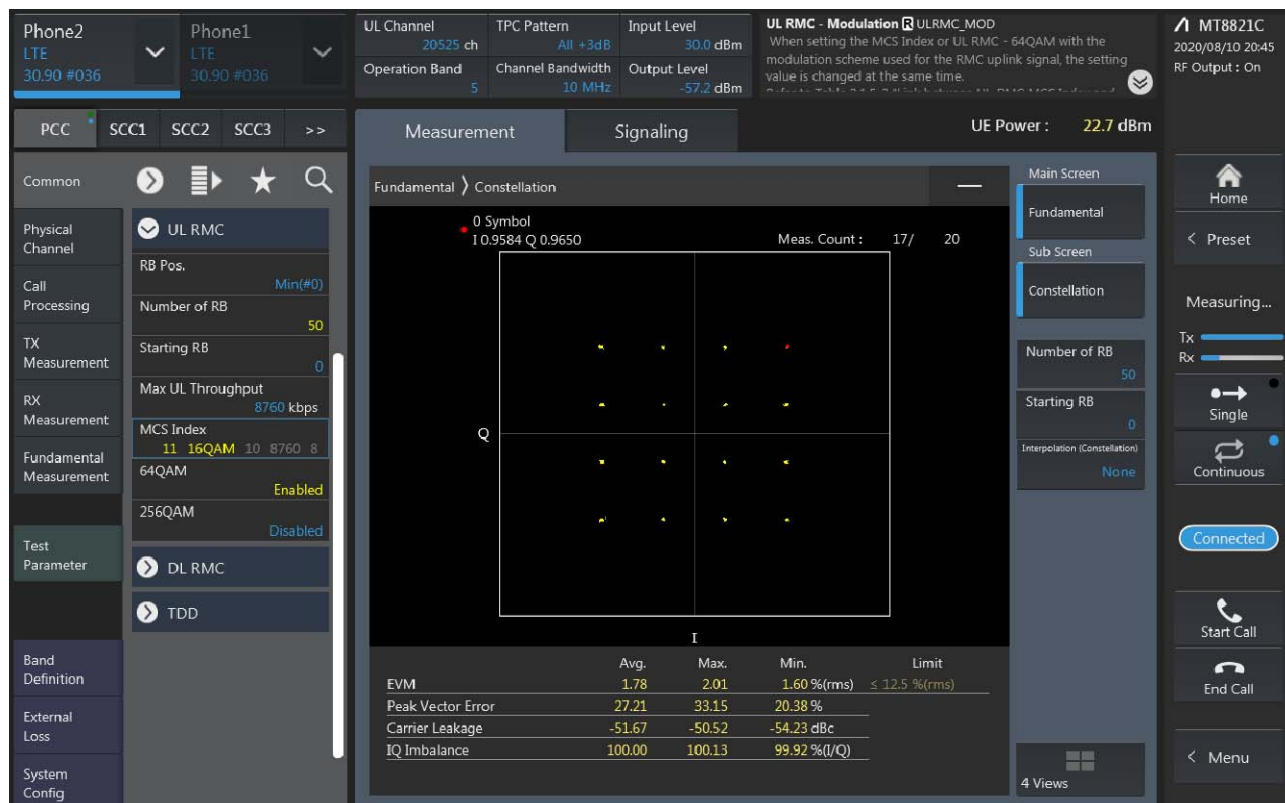
Band5-10MHz-16QAM-20600-32RB#0



Date: 5.AUG.2020 09:03:33



3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.097	1.431	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.410	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.413	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.527	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.467	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.461	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.692	3.308	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	3.210	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	3.768	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	3.228	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	3.180	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	3.138	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.446	4.950	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	5.020	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	5.010	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.456	5.000	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.456	5.020	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.456	5.030	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.600	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.871	9.500	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.871	9.580	PASS
Band5	10MHz	16QAM	20450	32RB#0	5.814	7.460	PASS
Band5	10MHz	16QAM	20525	32RB#0	5.814	8.000	PASS
Band5	10MHz	16QAM	20600	32RB#0	5.794	7.400	PASS



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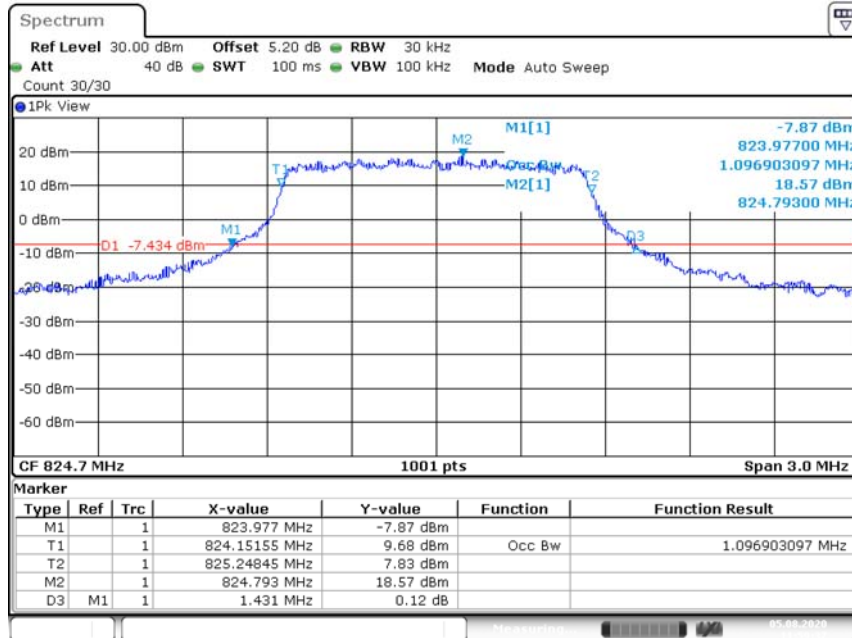
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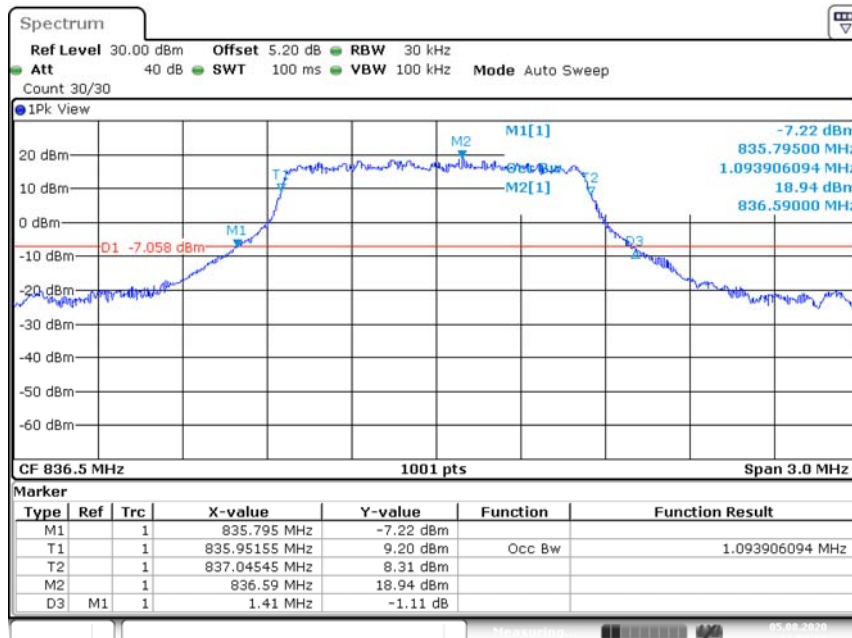
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.097



Date: 5.AUG.2020 11:59:37

Band5-1.4MHz-QPSK-20525-6RB#0-1.094



Date: 5.AUG.2020 11:59:50

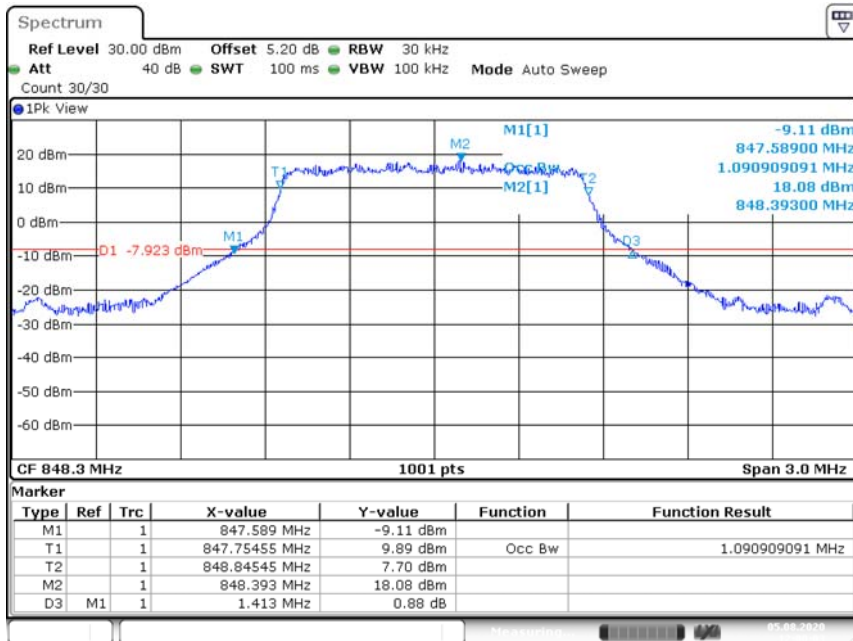


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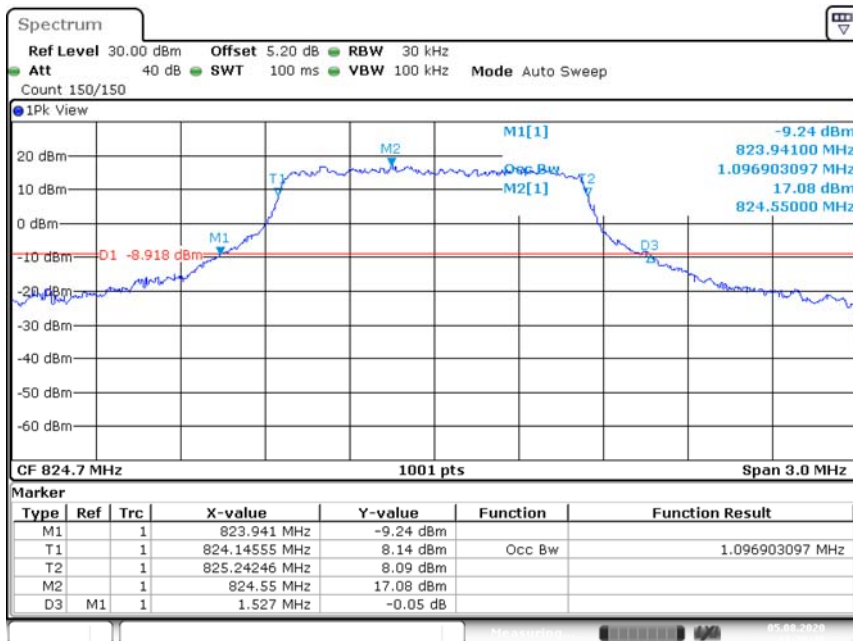
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Band5-1.4MHz-QPSK-20643-6RB#0-1.091



Date: 5.AUG.2020 12:00:03

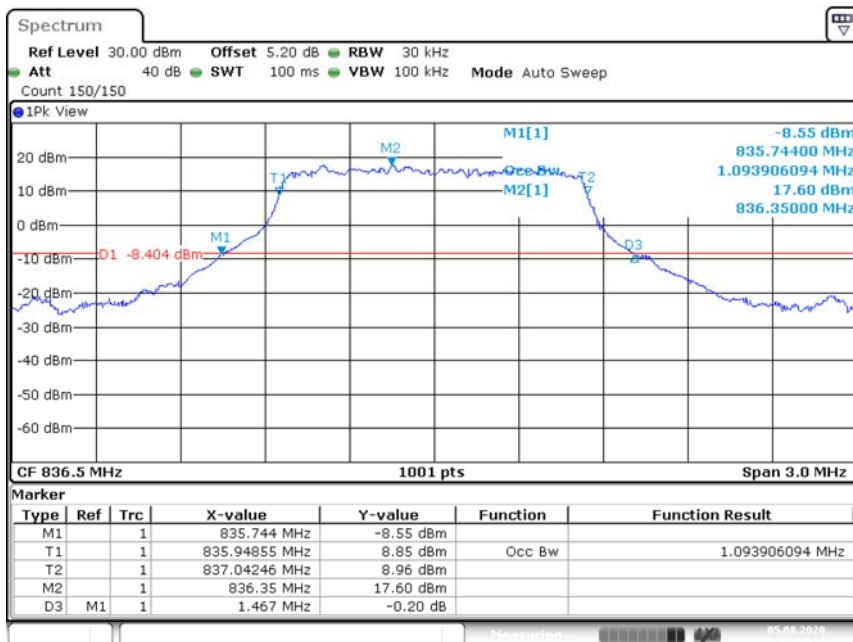
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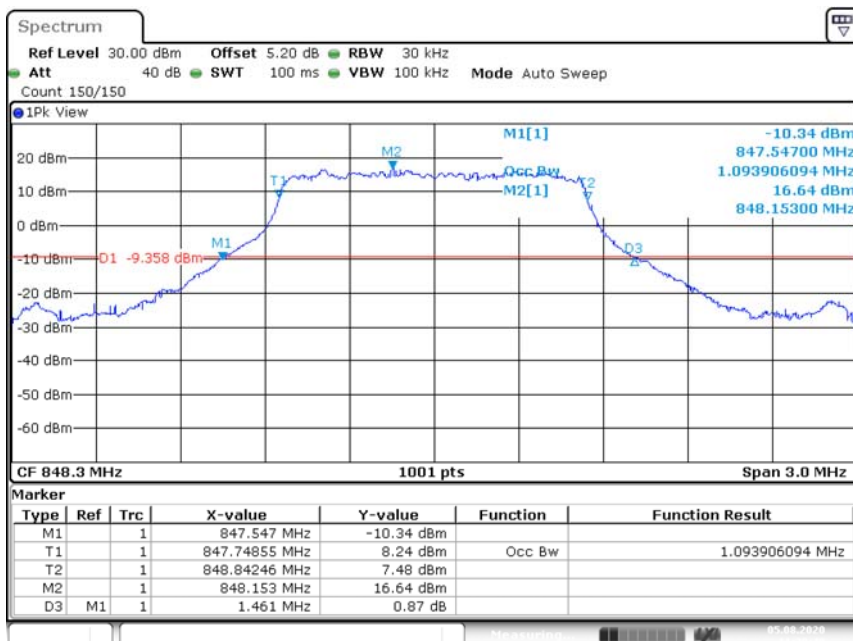


Band5-1.4MHz-16QAM-20525-6RB#0-1.094



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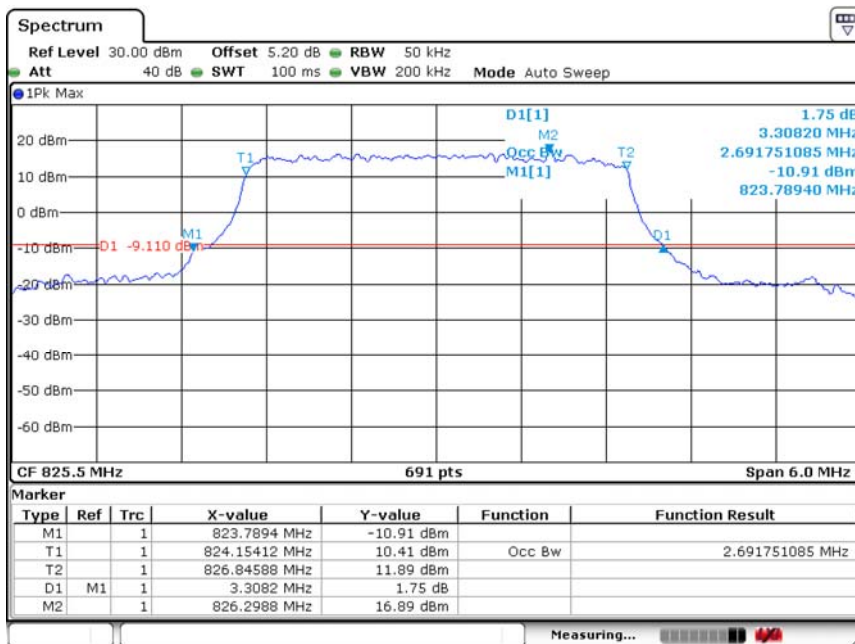
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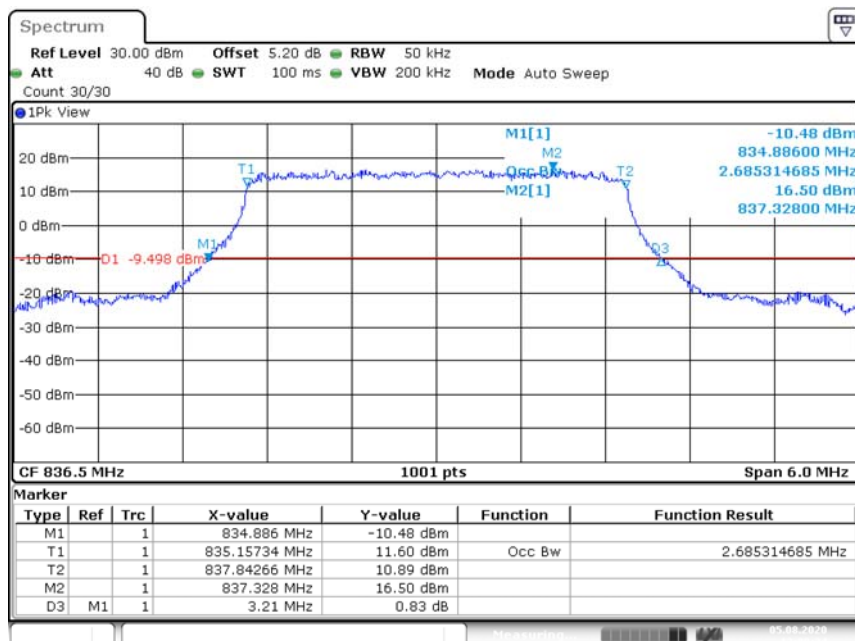


Band5-3MHz-QPSK-20415-15RB#0-2.692



Date: 6.AUG.2020 19:56:06

Band5-3MHz-QPSK-20525-15RB#0-2.685



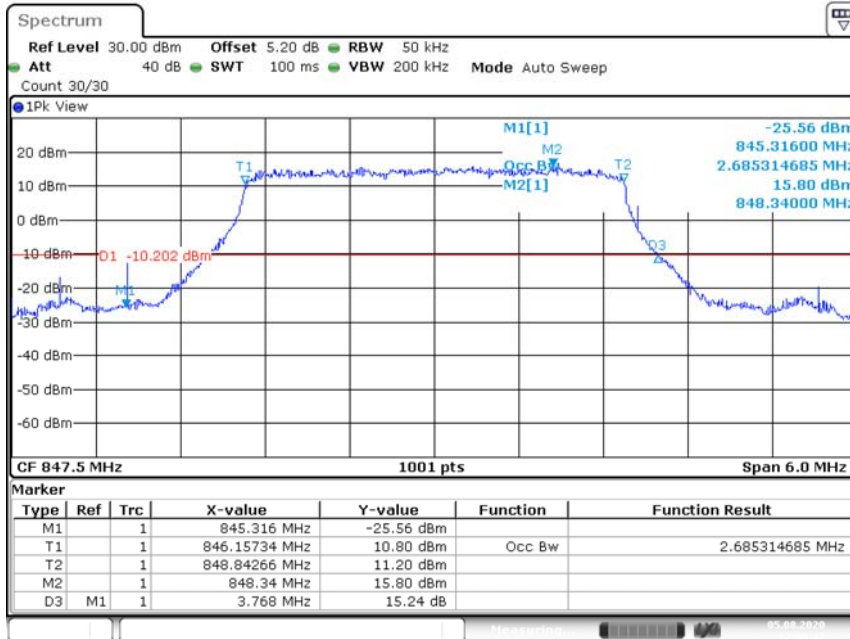
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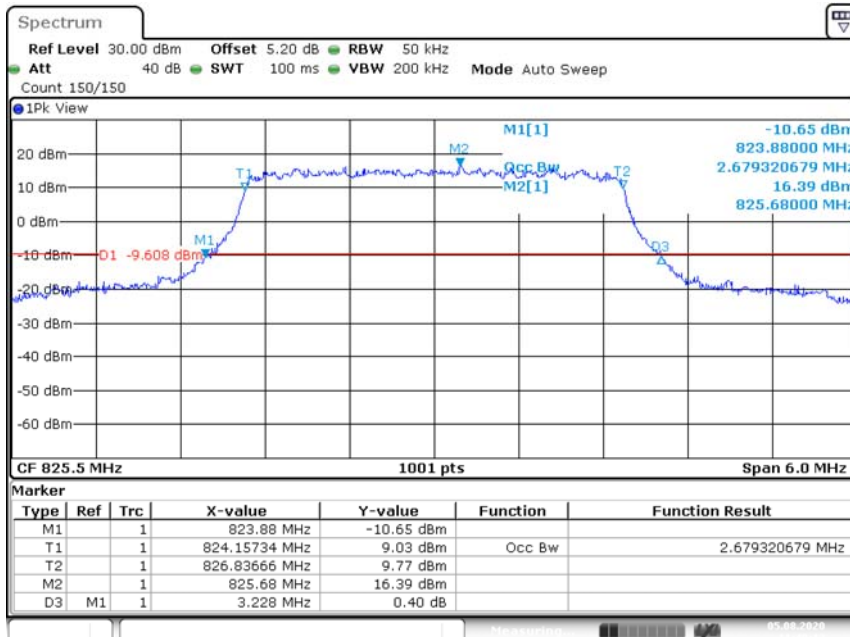
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Band5-3MHz-QPSK-20635-15RB#0-2.685



Date: 5.AUG.2020 12:00:47

Band5-3MHz-16QAM-20415-15RB#0-2.679

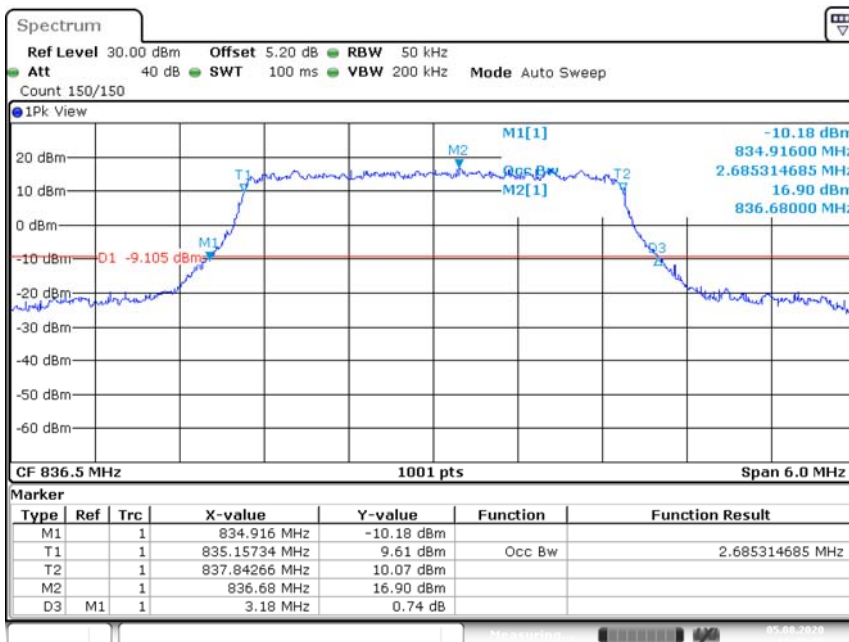


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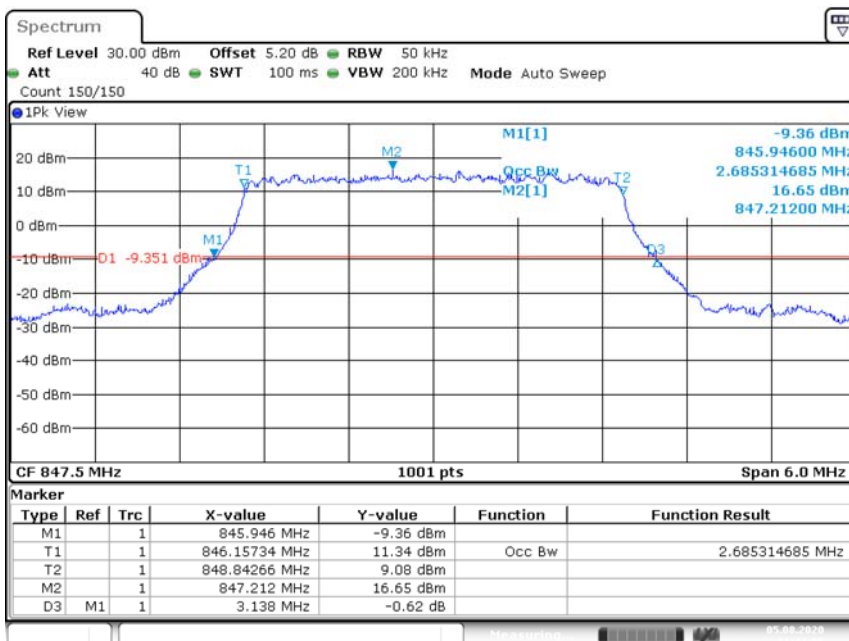


Band5-3MHz-16QAM-20525-15RB#0-2.685



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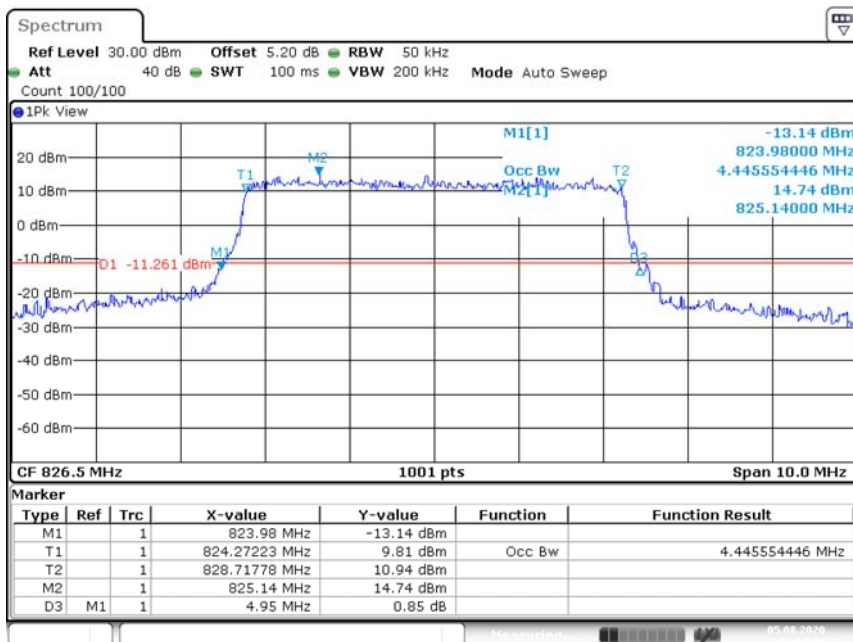


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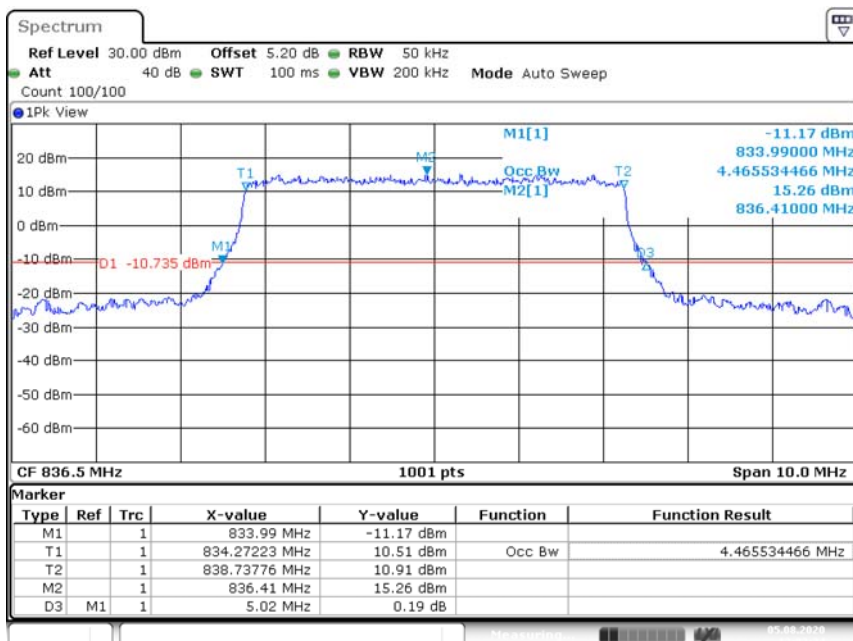
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Band5-5MHz-QPSK-20425-25RB#0-4.446



Date: 5.AUG.2020 12:02:04

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



Date: 5.AUG.2020 12:02:24

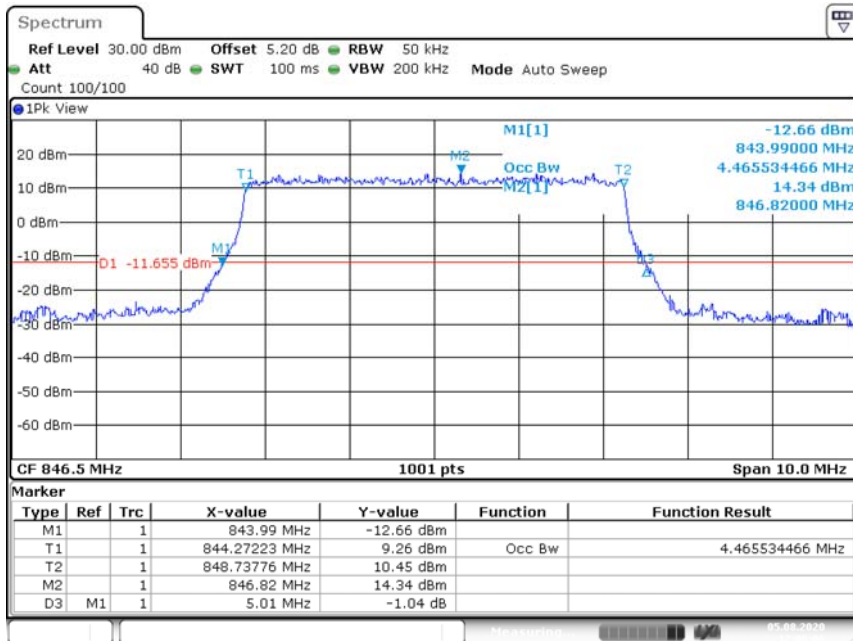
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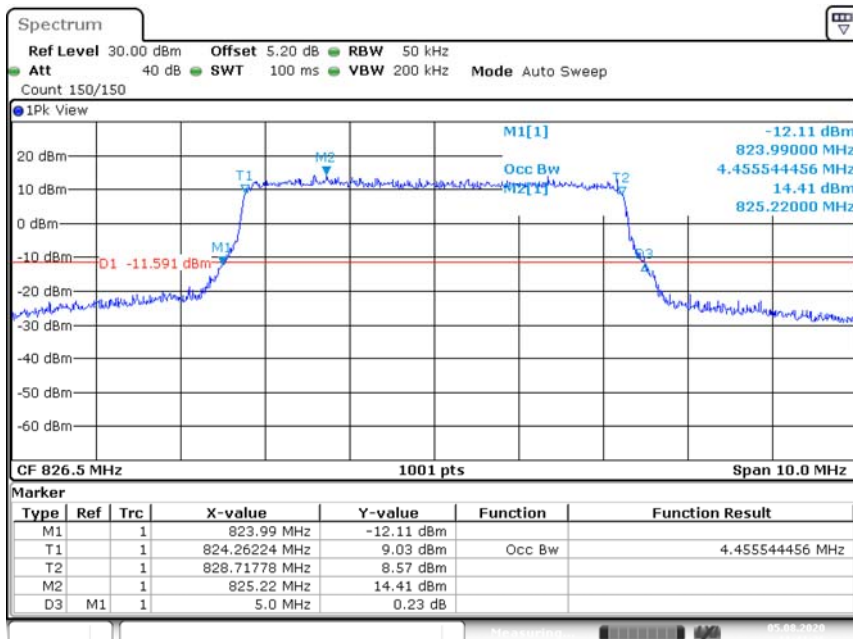
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Band5-5MHz-QPSK-20625-25RB#0-4.466



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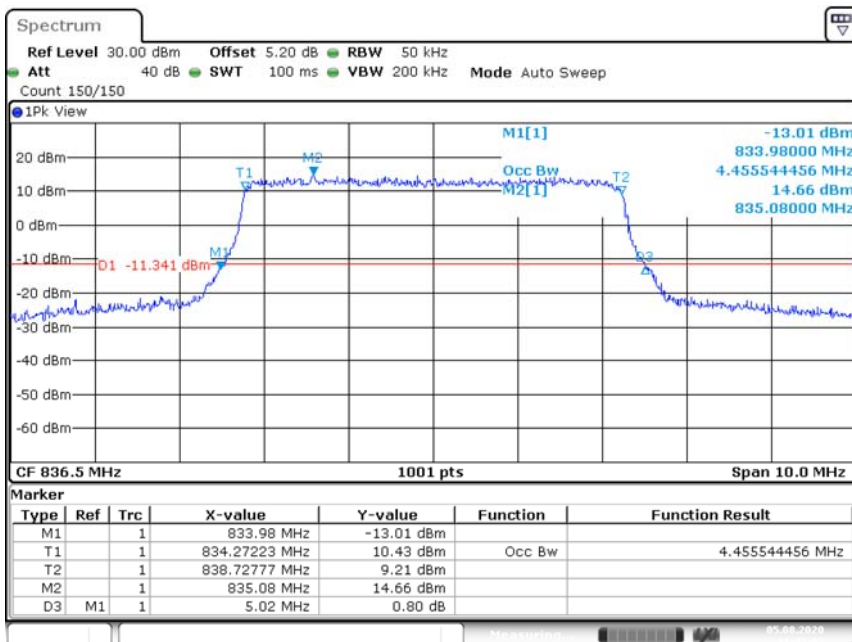
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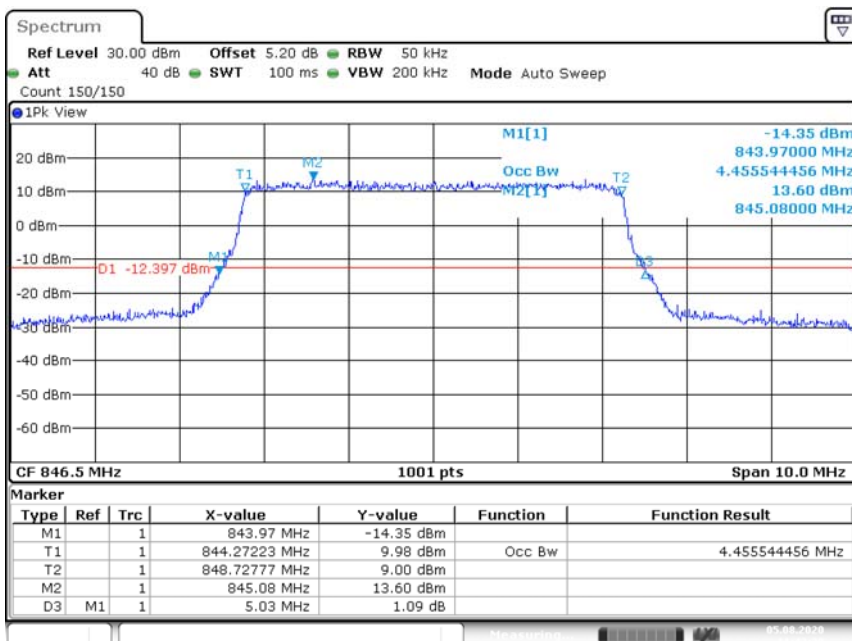


Band5-5MHz-16QAM-20525-25RB#0-4.456



Date: 5.AUG.2020 11:42:03

Band5-5MHz-16QAM-20625-25RB#0-4.456



Date: 5.AUG.2020 11:42:29

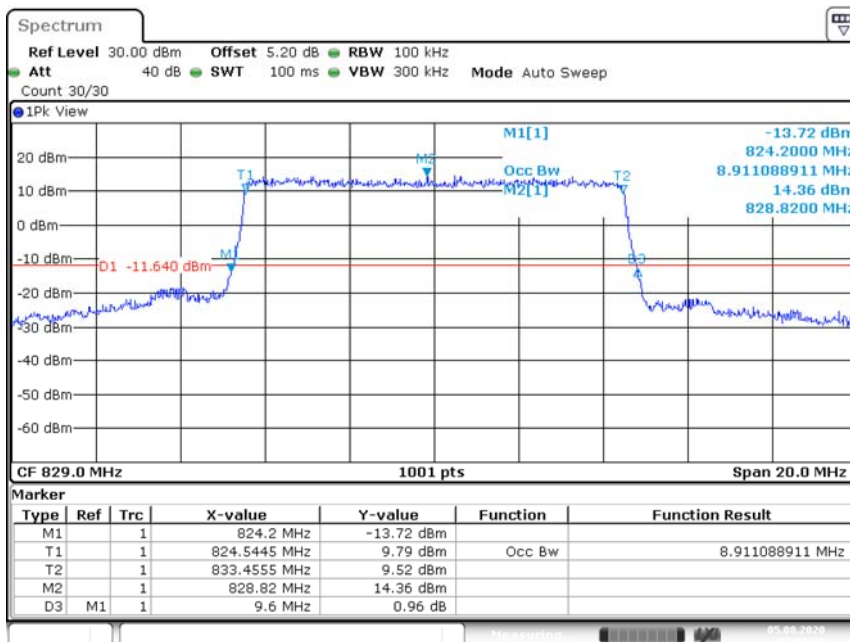
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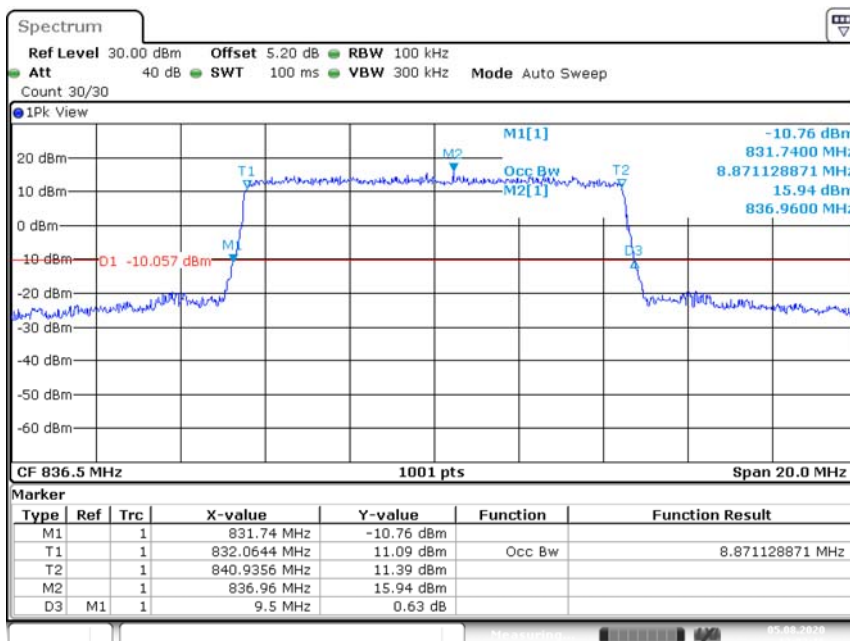
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Band5-10MHz-QPSK-20450-50RB#0-8.911



Date: 5.AUG.2020 12:03:03

Band5-10MHz-QPSK-20525-50RB#0-8.871



Date: 5.AUG.2020 12:03:16

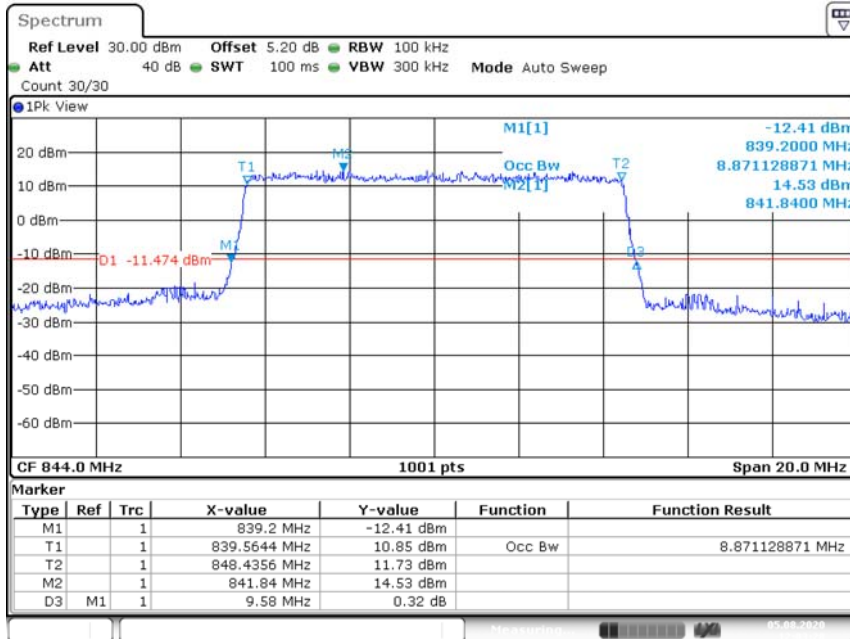
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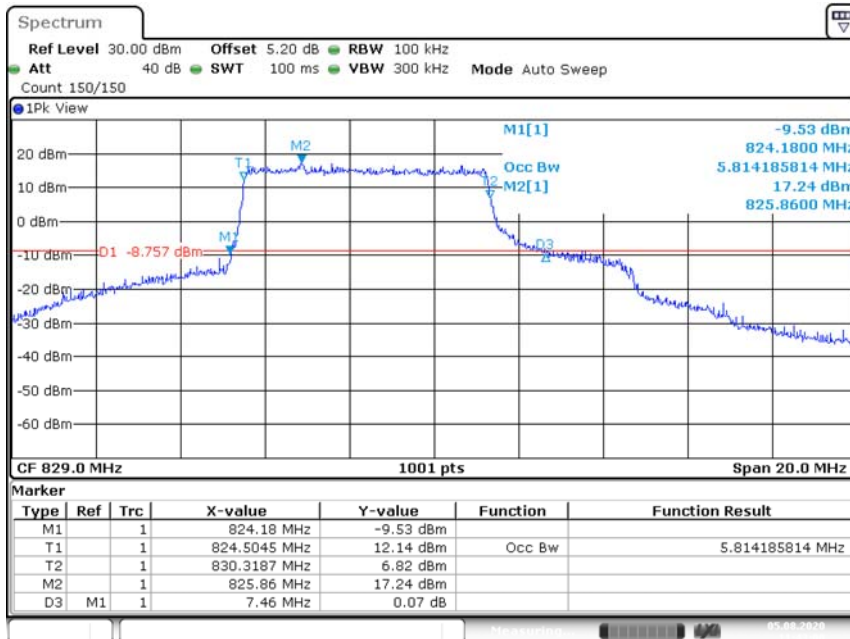
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Band5-10MHz-QPSK-20600-50RB#0-8.871



Date: 5.AUG.2020 12:03:29

Band5-10MHz-16QAM-20450-32RB#0-5.814



Date: 5.AUG.2020 11:43:01



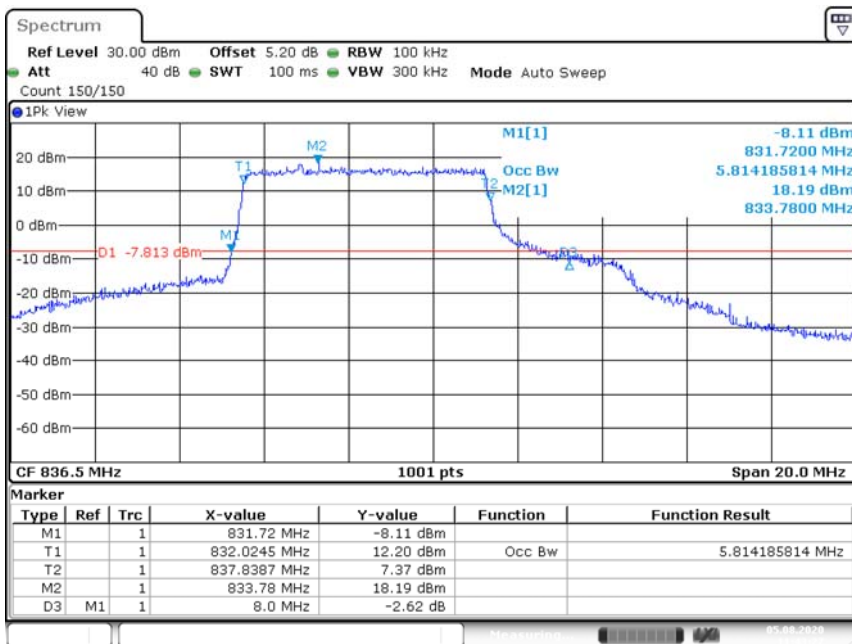
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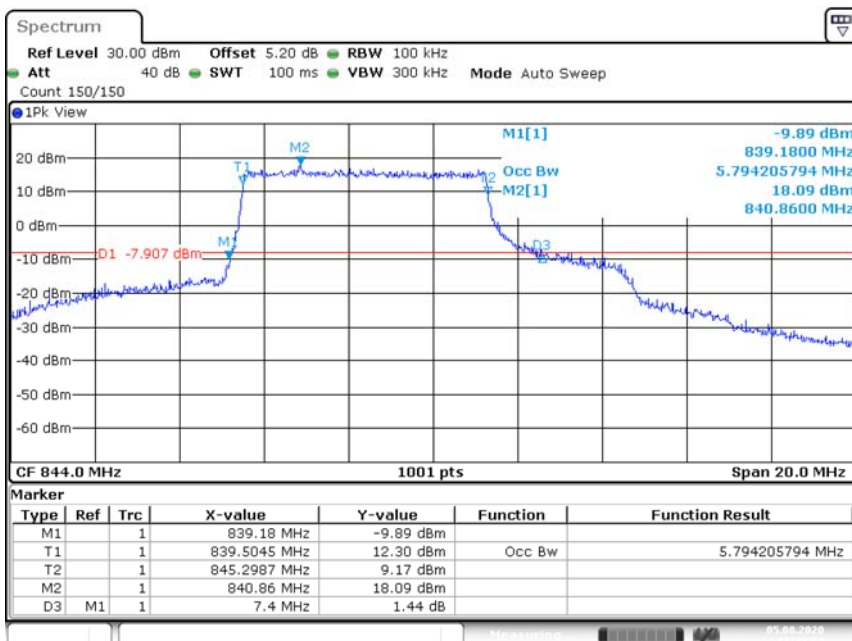
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Band5-10MHz-16QAM-20525-32RB#0-5.814



Date: 5.AUG.2020 11:43:27

Band5-10MHz-16QAM-20600-32RB#0-5.794



Date: 5.AUG.2020 11:43:53

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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-15.79	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-20.61	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-16.95	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-23.47	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-16.79	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-21.70	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-17.32	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-24.74	PASS
Band5	3MHz	QPSK	20415	1RB#0	-14.50	PASS
Band5	3MHz	QPSK	20415	15RB#0	-31.99	PASS
Band5	3MHz	QPSK	20635	1RB#14	-16.15	PASS
Band5	3MHz	QPSK	20635	15RB#0	-26.63	PASS
Band5	3MHz	16QAM	20415	1RB#0	-14.81	PASS
Band5	3MHz	16QAM	20415	15RB#0	-26.17	PASS
Band5	3MHz	16QAM	20635	1RB#14	-17.56	PASS
Band5	3MHz	16QAM	20635	15RB#0	-27.56	PASS
Band5	5MHz	QPSK	20425	1RB#0	-19.58	PASS
Band5	5MHz	QPSK	20425	25RB#0	-27.57	PASS
Band5	5MHz	QPSK	20625	1RB#24	-21.38	PASS
Band5	5MHz	QPSK	20625	25RB#0	-31.33	PASS
Band5	5MHz	16QAM	20425	1RB#0	-15.77	PASS
Band5	5MHz	16QAM	20425	25RB#0	-26.16	PASS
Band5	5MHz	16QAM	20625	1RB#24	-15.62	PASS
Band5	5MHz	16QAM	20625	25RB#0	-28.07	PASS
Band5	10MHz	QPSK	20450	1RB#0	-27.85	PASS
Band5	10MHz	QPSK	20450	50RB#0	-30.21	PASS
Band5	10MHz	QPSK	20600	1RB#49	-29.68	PASS
Band5	10MHz	QPSK	20600	50RB#0	-34.42	PASS
Band5	10MHz	16QAM	20450	1RB#0	-27.55	PASS
Band5	10MHz	16QAM	20450	32RB#0	-26.01	PASS
Band5	10MHz	16QAM	20600	1RB#49	-30.80	PASS



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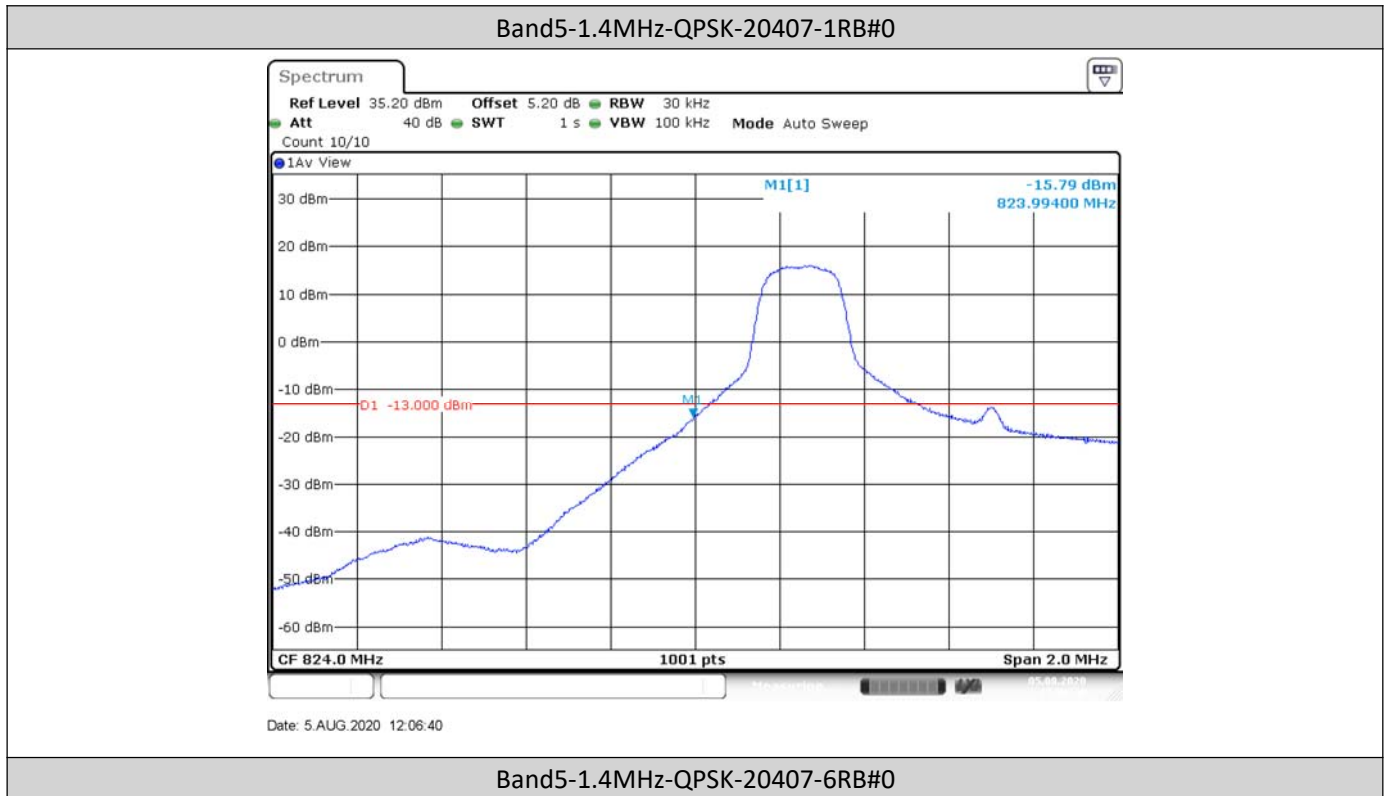
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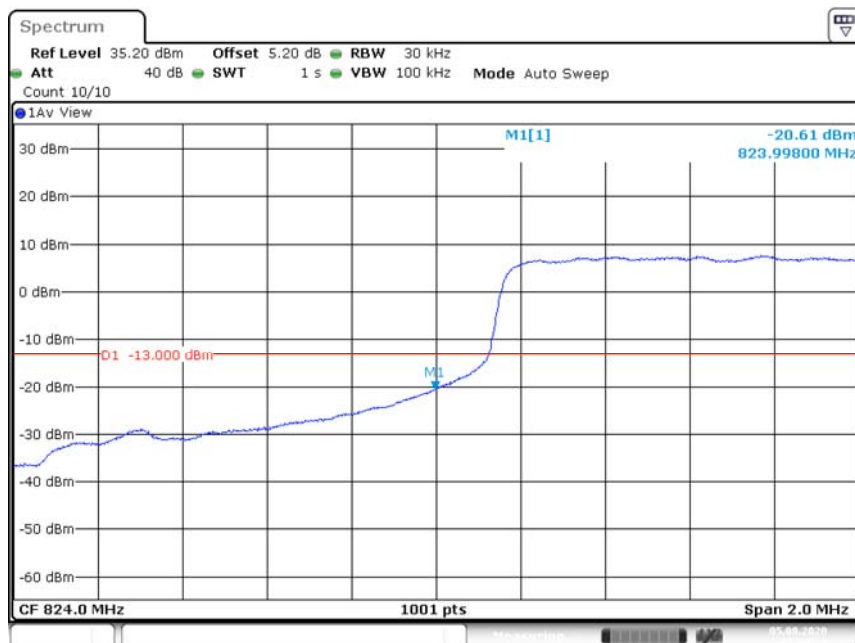
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Band5	10MHz	16QAM	20600	32RB#18	-26.83	PASS
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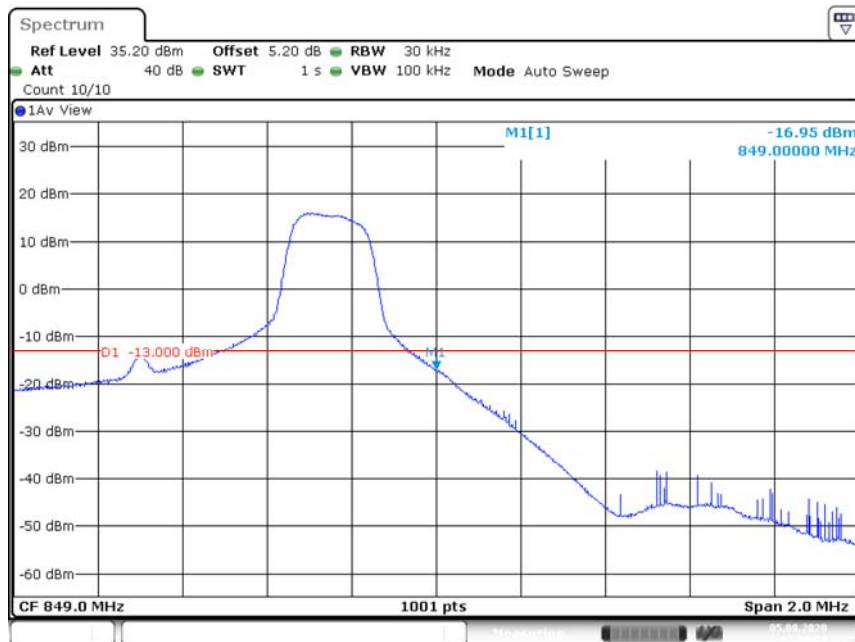
5.2. Test Plots





Date: 5.AUG.2020 12:07:21

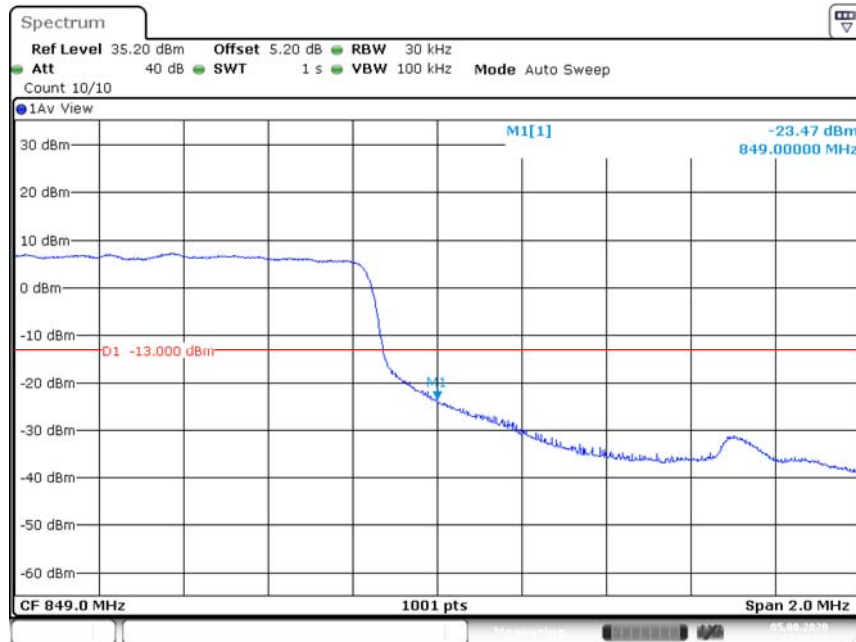
Band5-1.4MHz-QPSK-20643-1RB#5



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Band5-1.4MHz-QPSK-20643-6RB#0





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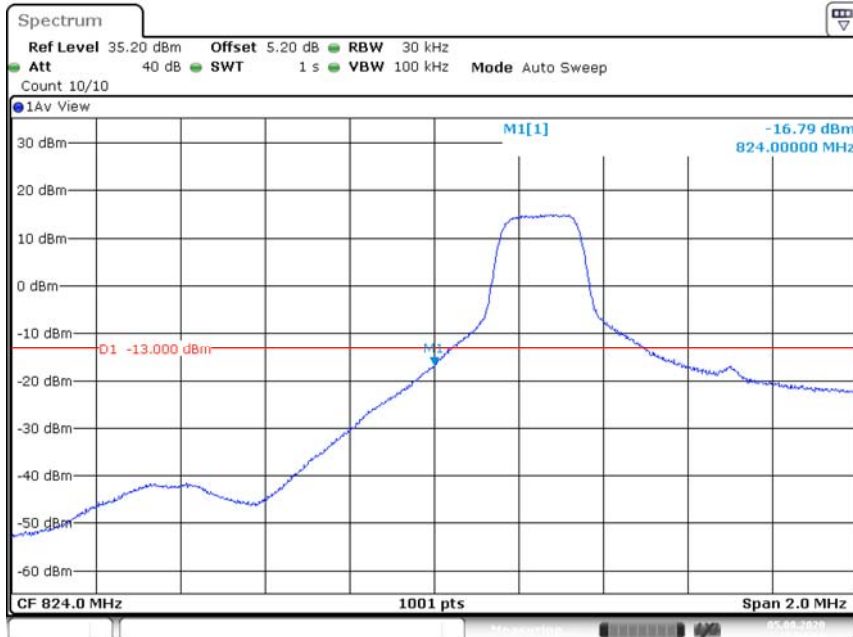
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Band5-1.4MHz-16QAM-20407-1RB#0



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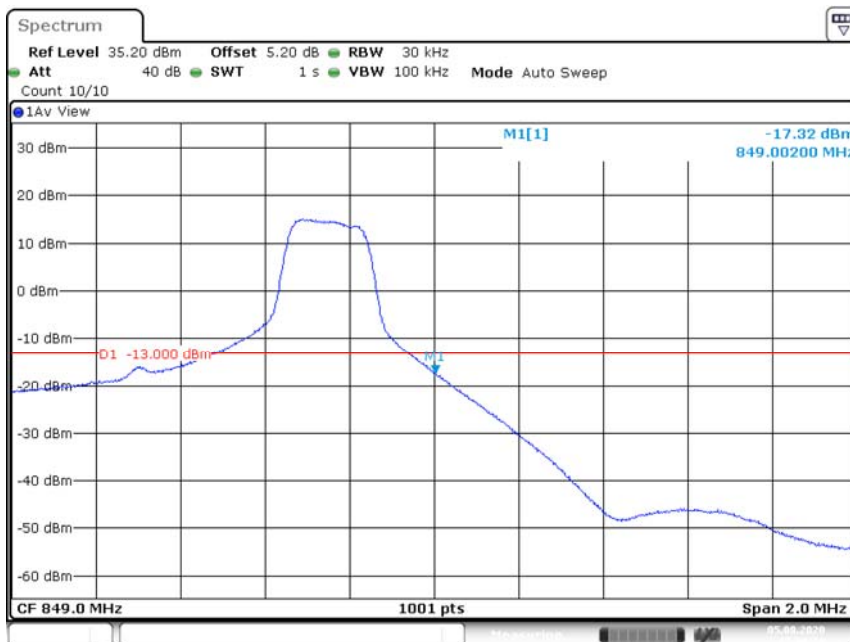


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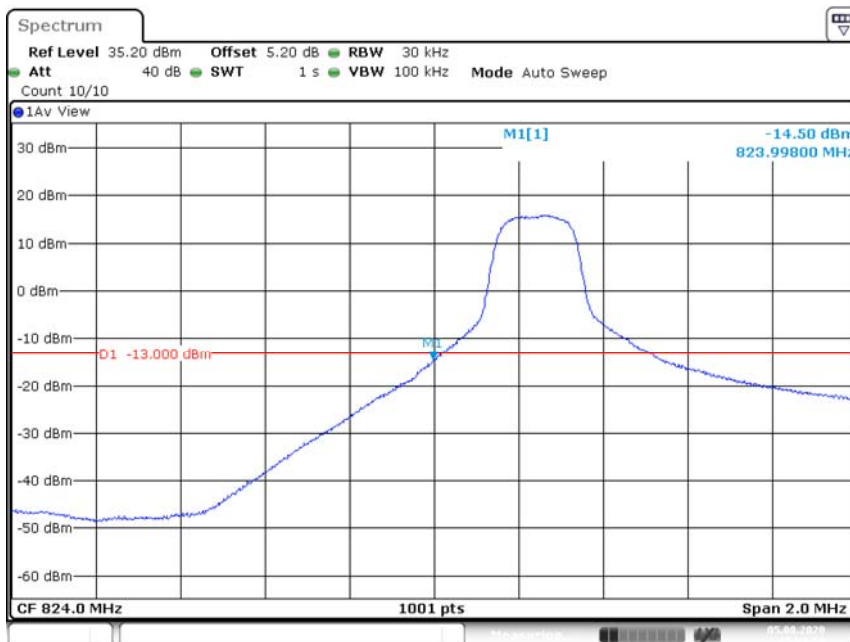


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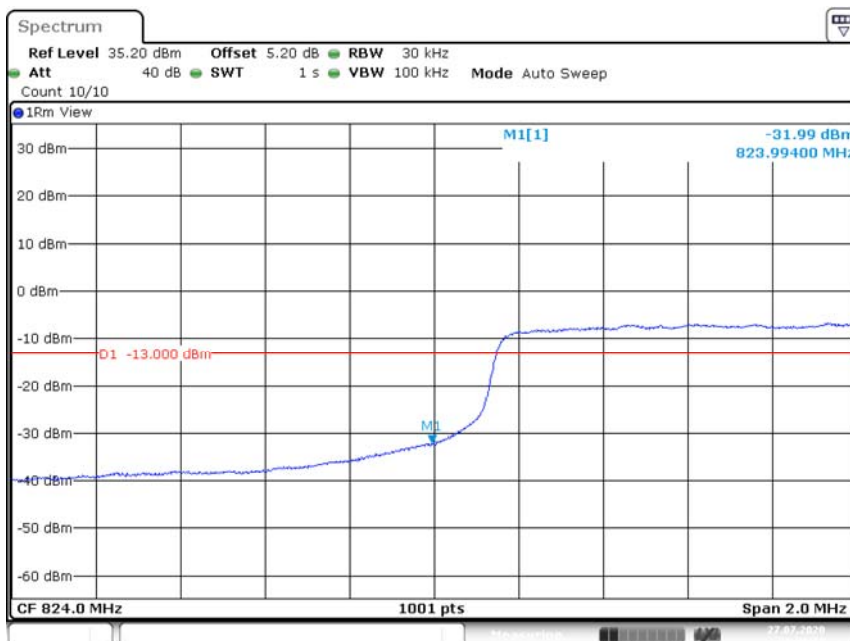


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Band5-3MHz-QPSK-20415-15RB#0



Date: 27.JUL.2020 20:30:17





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

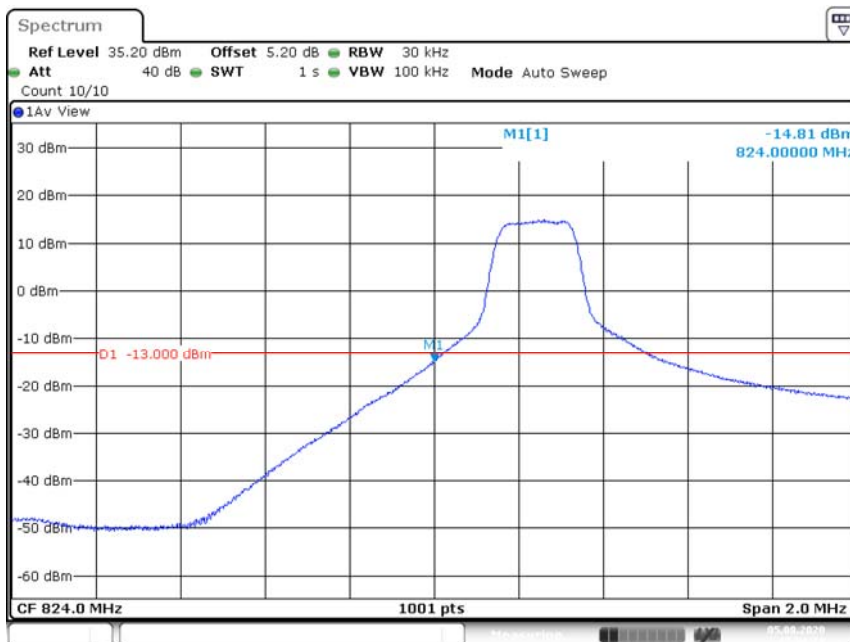


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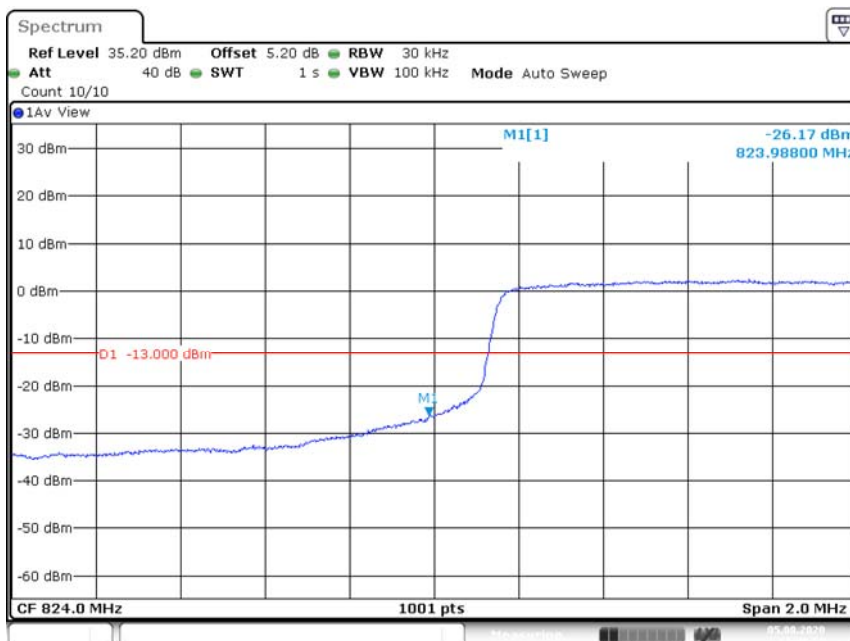


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Band5-3MHz-16QAM-20415-15RB#0

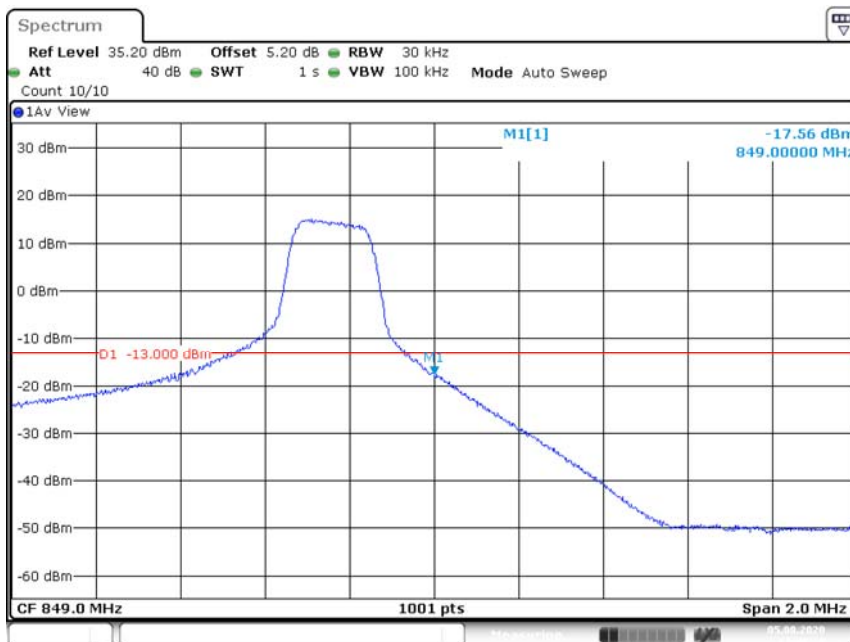


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Date: 5.AUG.2020 11:47:30

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

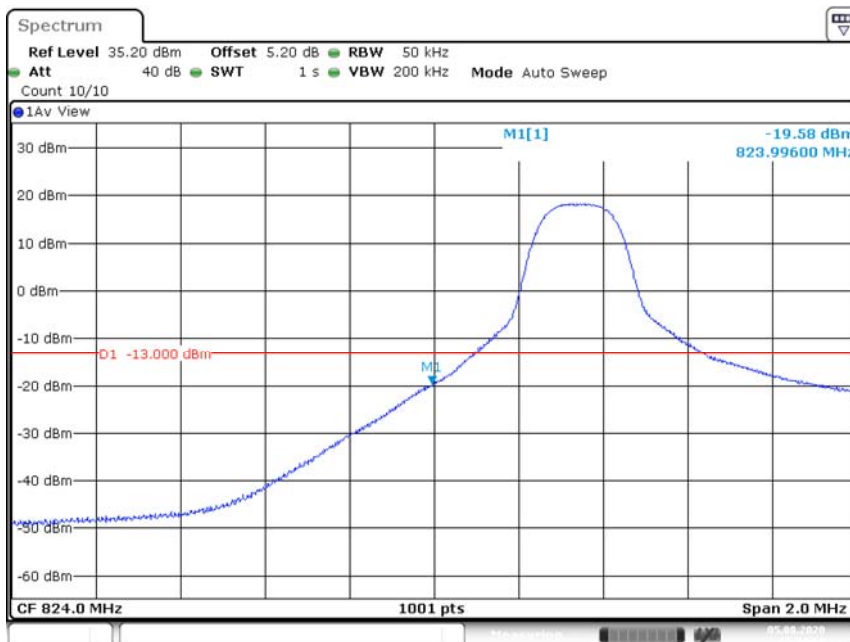


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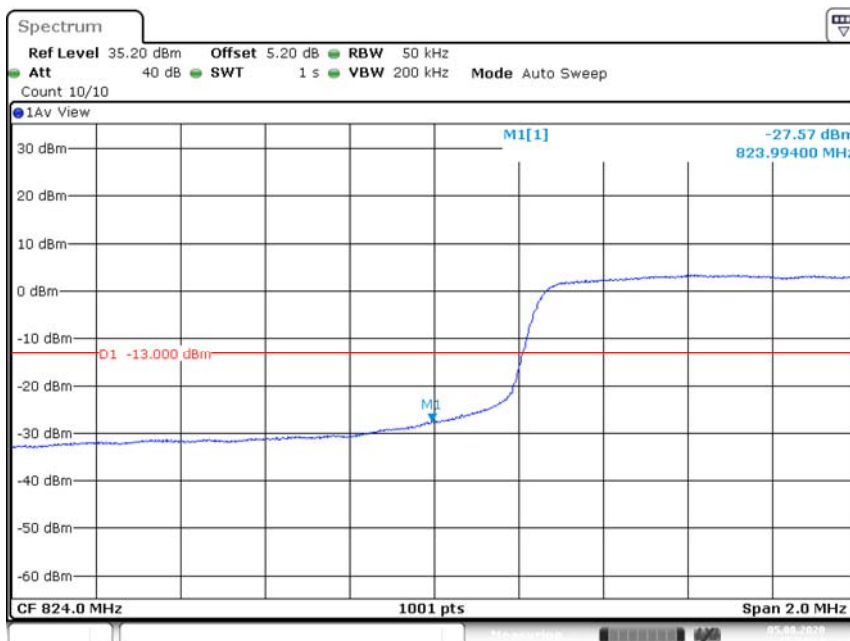


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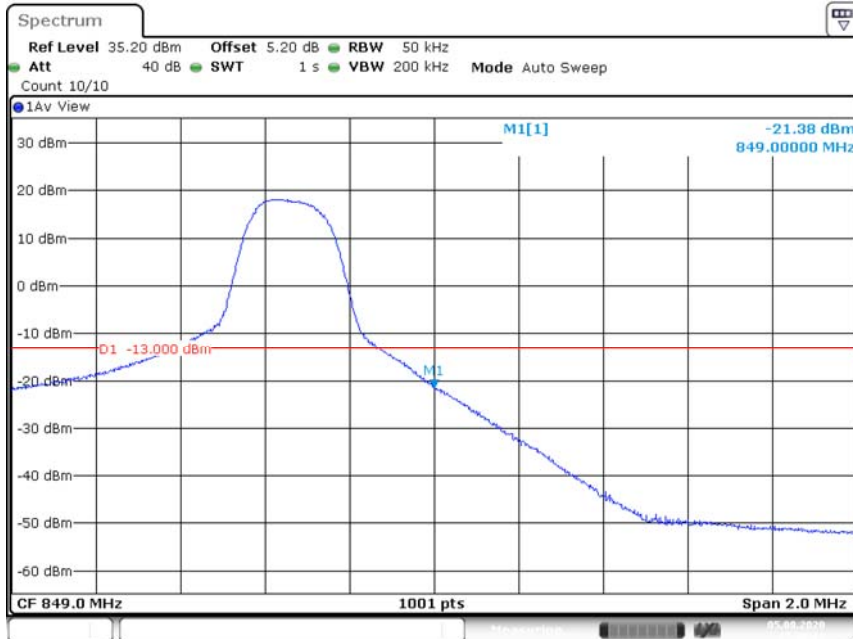


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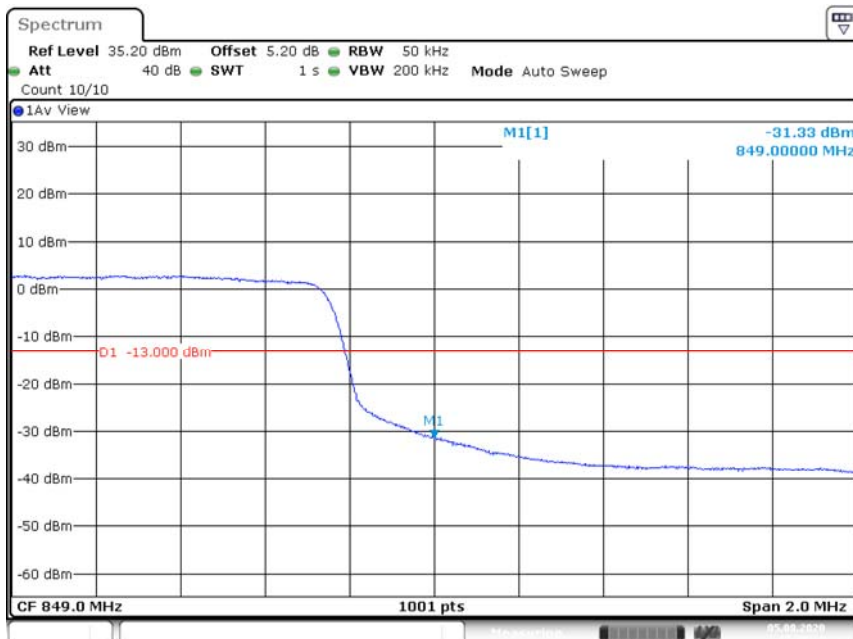


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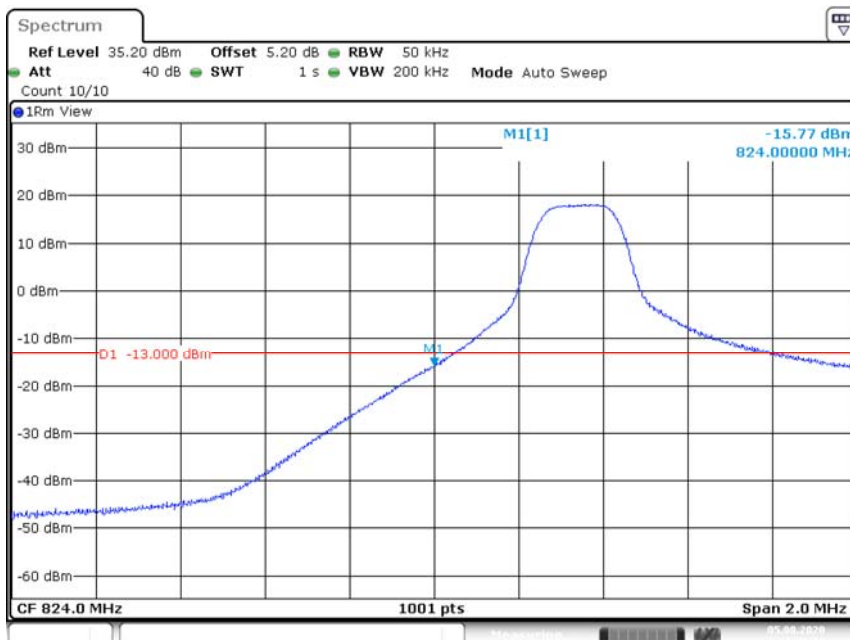


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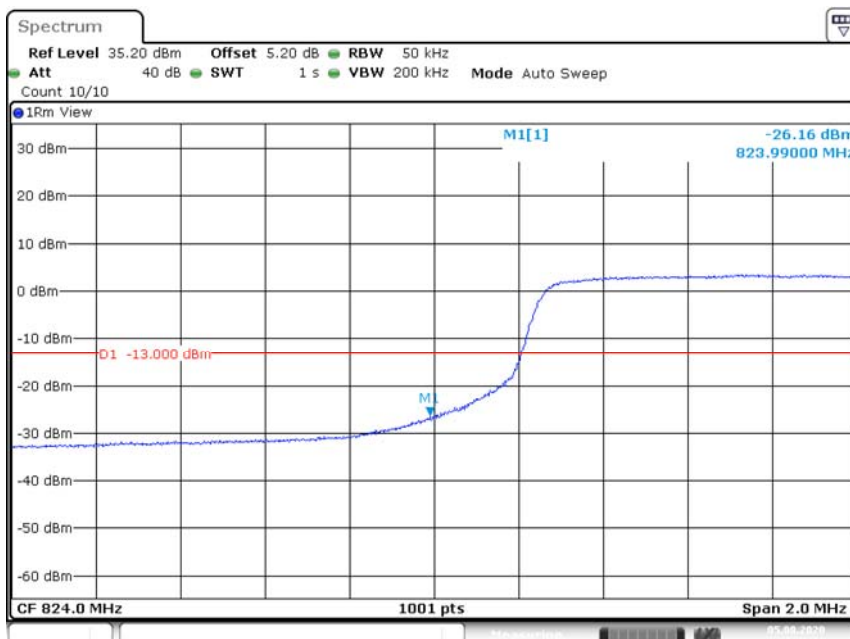


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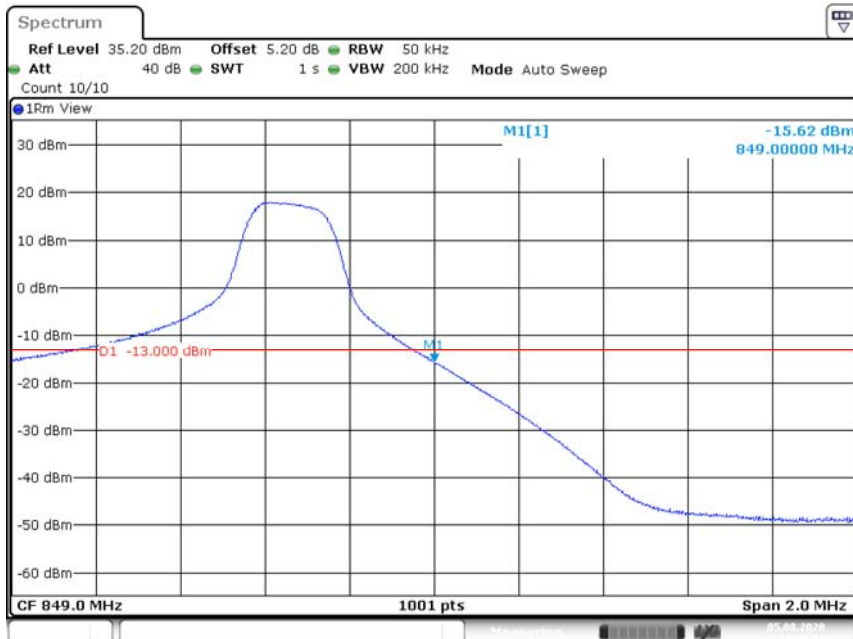


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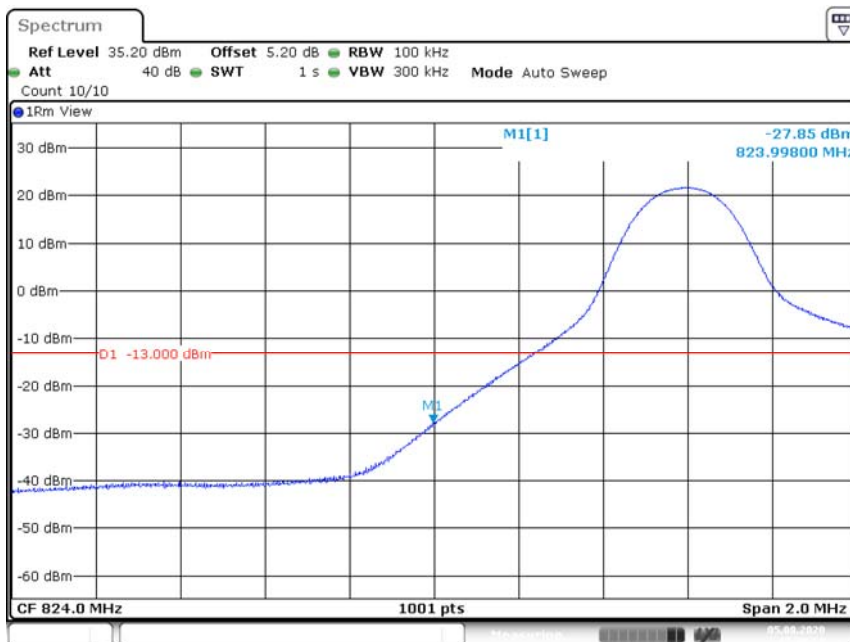


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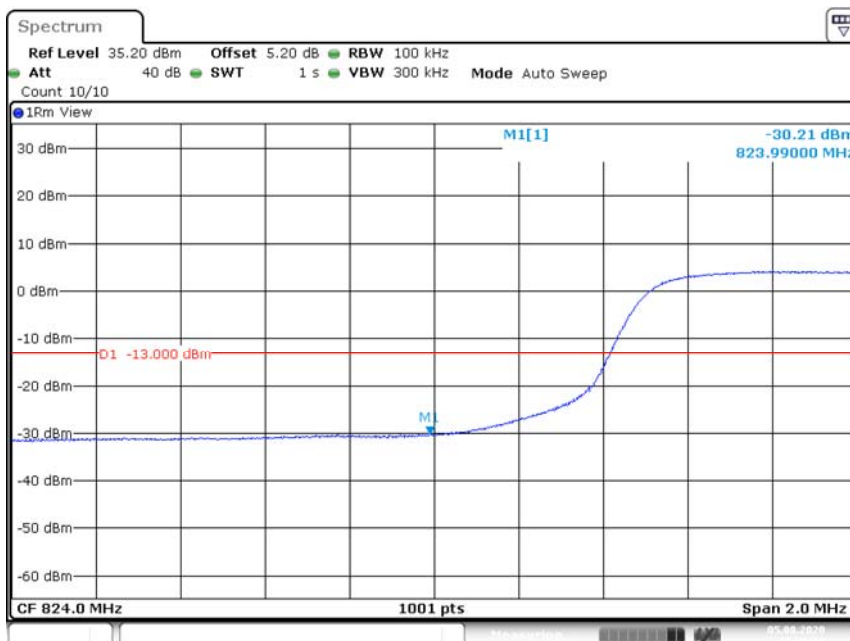


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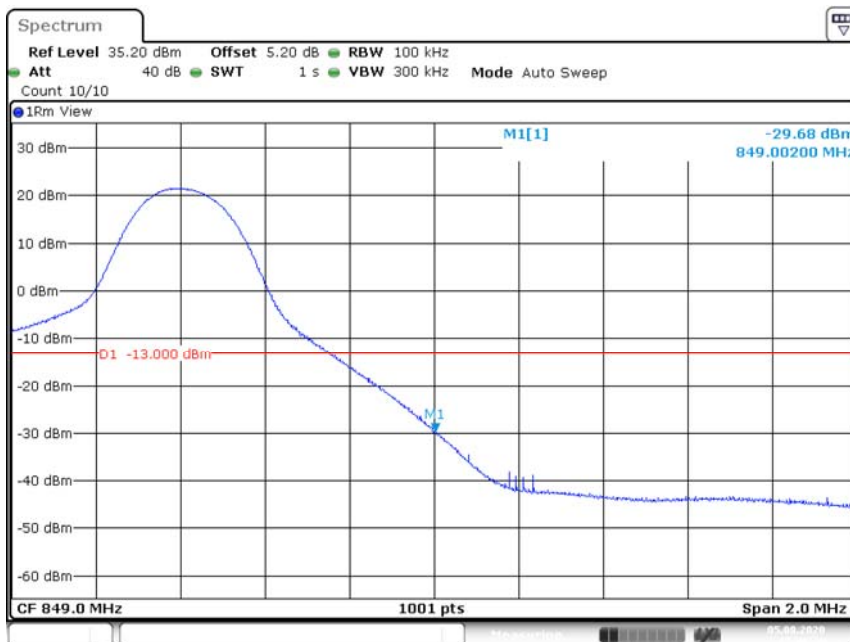


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Band5-10MHz-QPSK-20600-1RB#49



Date: 5.AUG.2020 12:16:44

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



Date: 5.AUG.2020 12:17:06



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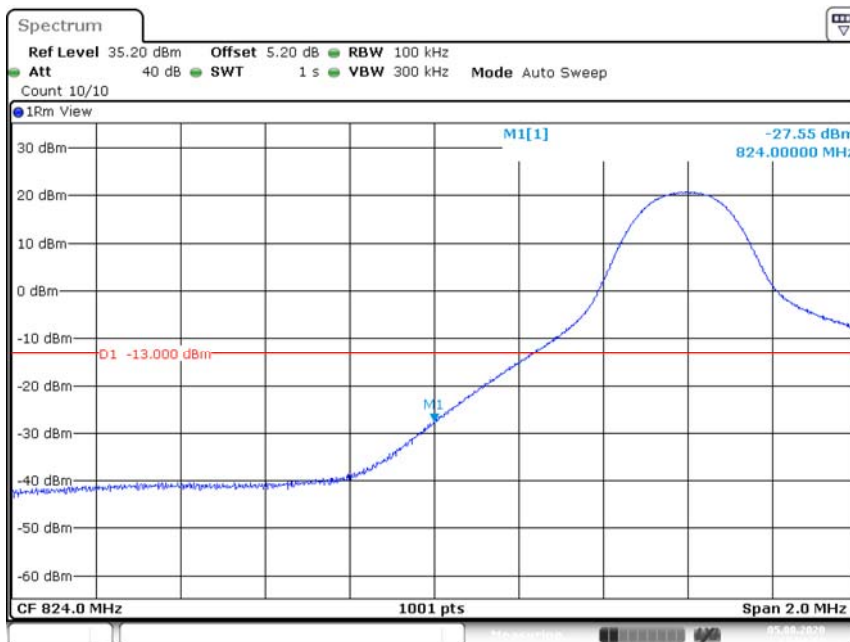
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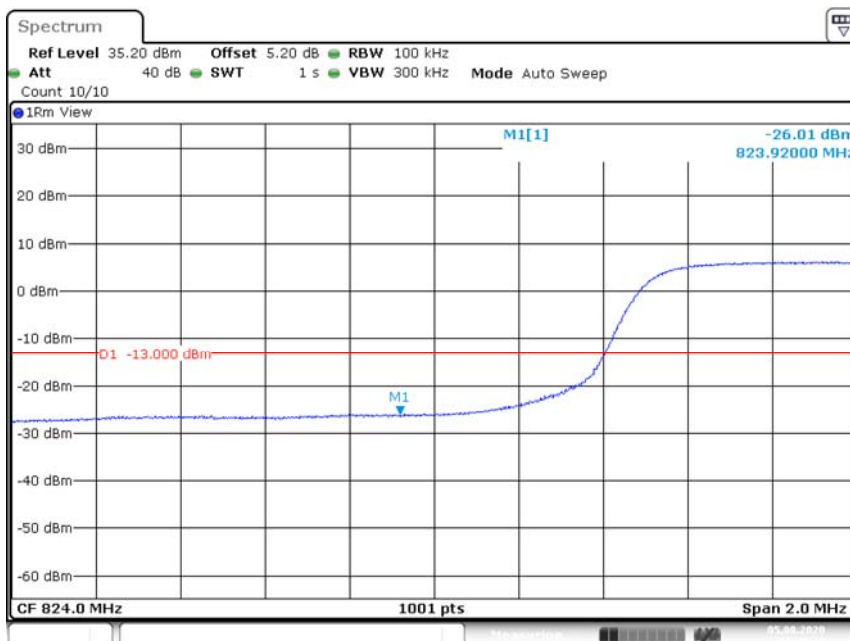
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Band5-10MHz-16QAM-20450-1RB#0

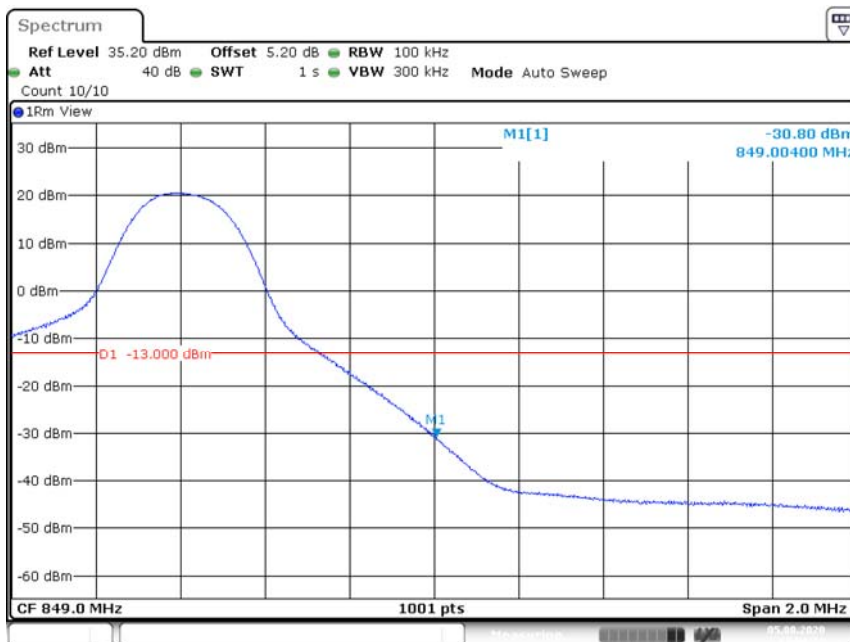


Band5-10MHz-16QAM-20450-32RB#0





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



Date: 5.AUG.2020 11:50:33

Band5-10MHz-16QAM-20600-32RB#18



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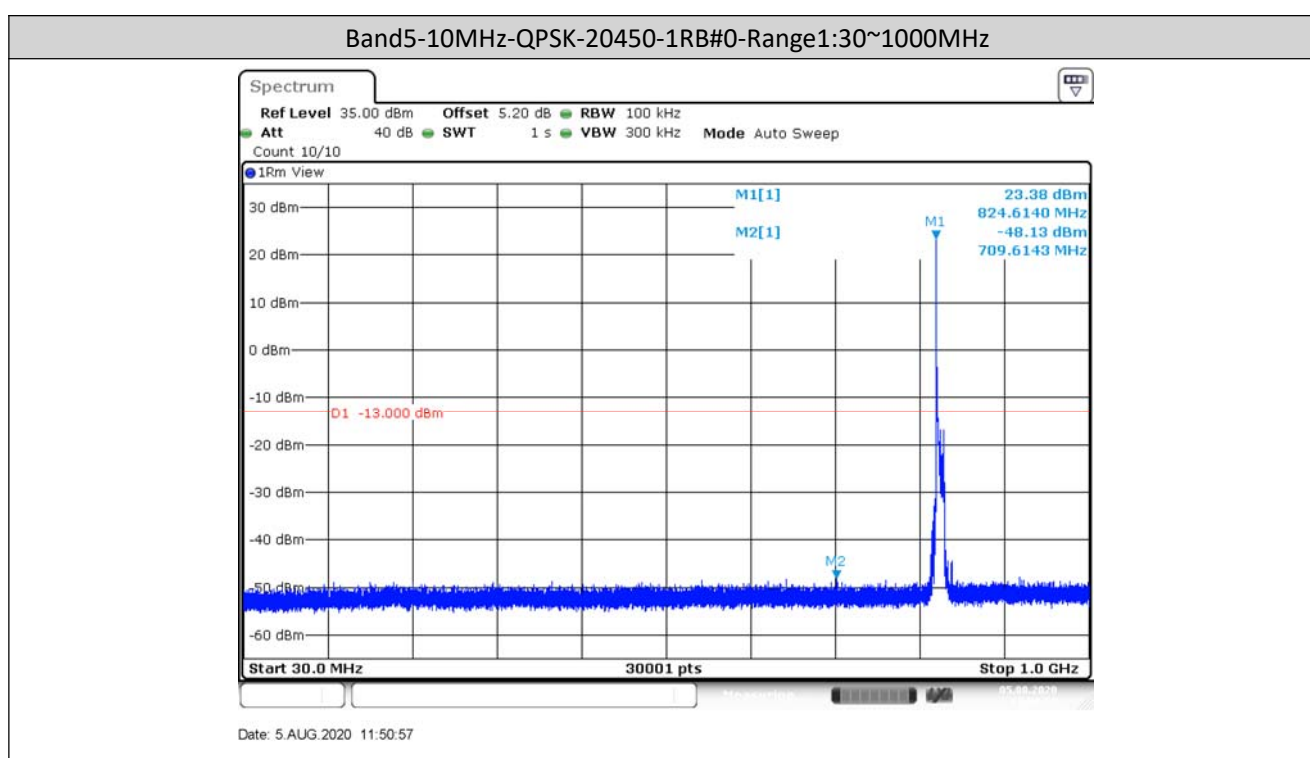


6. Spurious Emission at Antenna Terminal

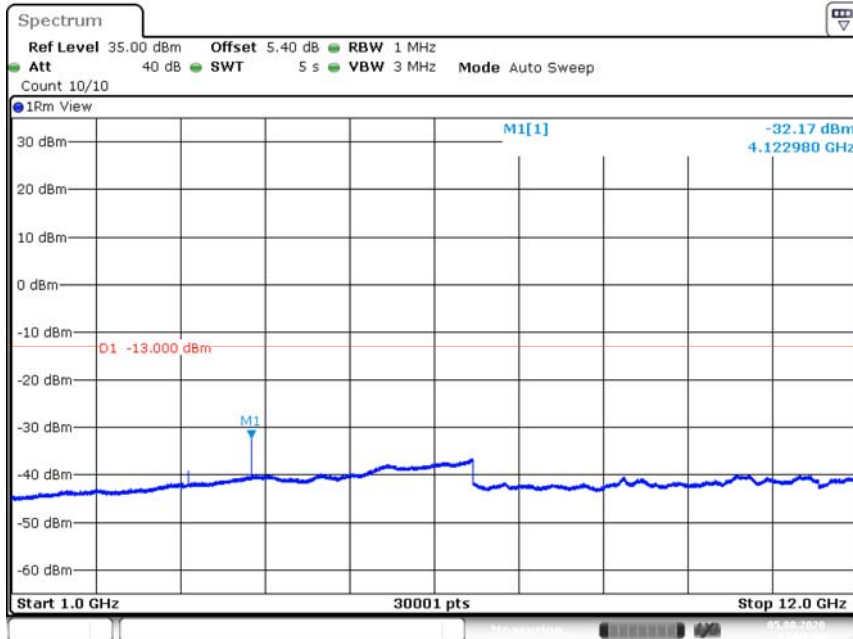
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

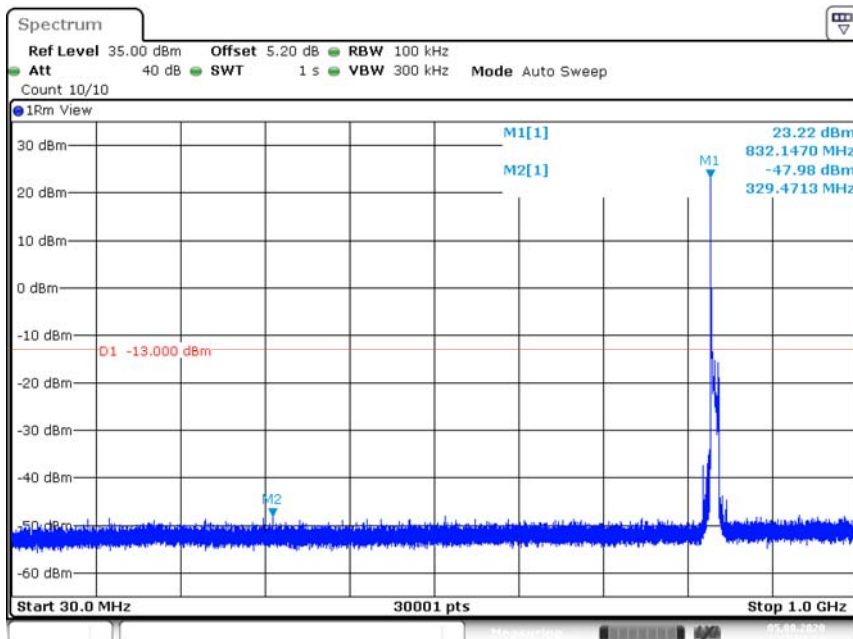


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz



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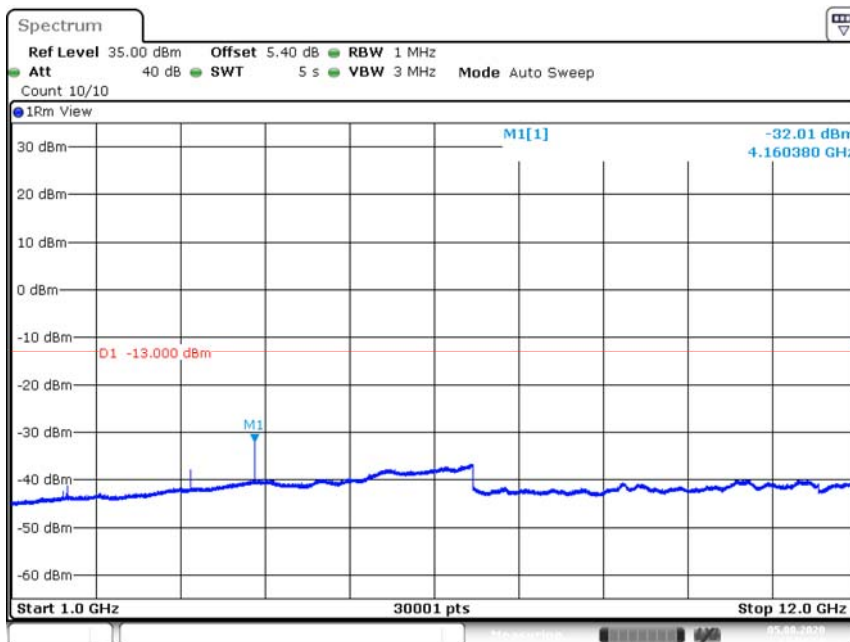
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Date: 5.AUG.2020 11:53:51

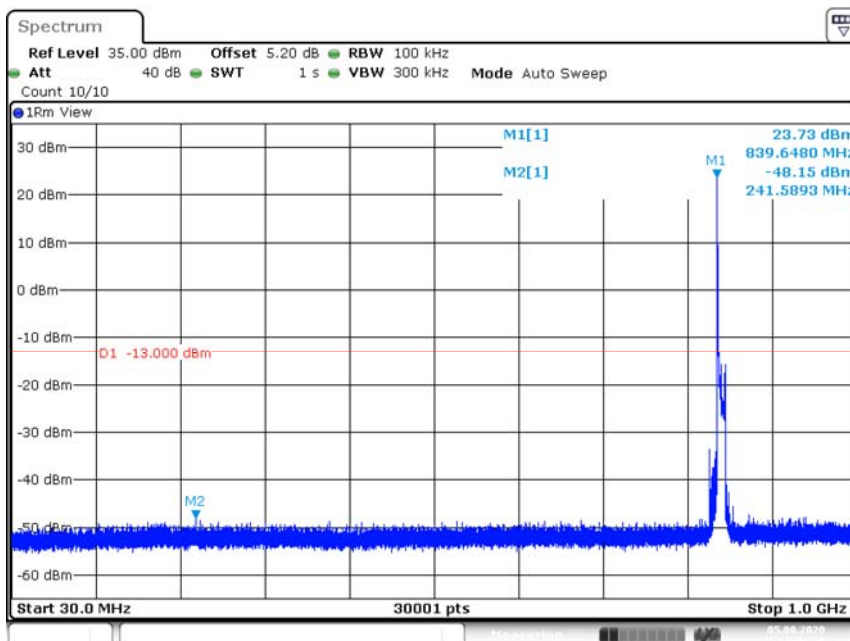


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz



Date: 5.AUG.2020 11:54:59

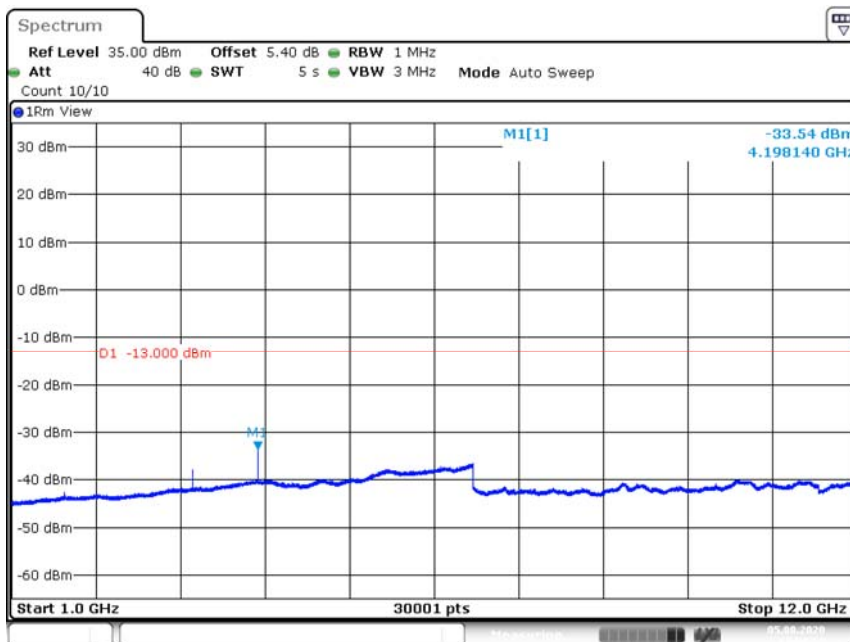
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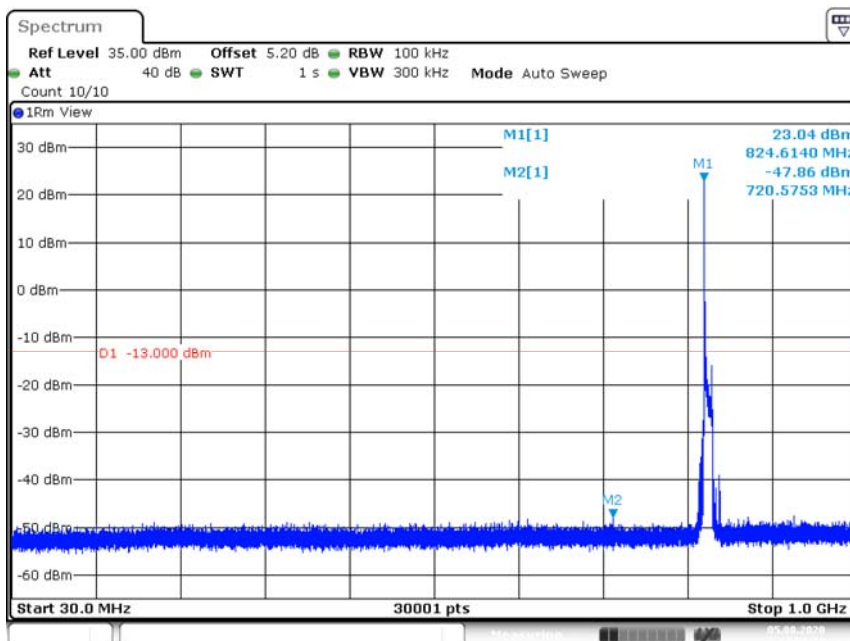


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz



Date: 5.AUG.2020 11:57:53

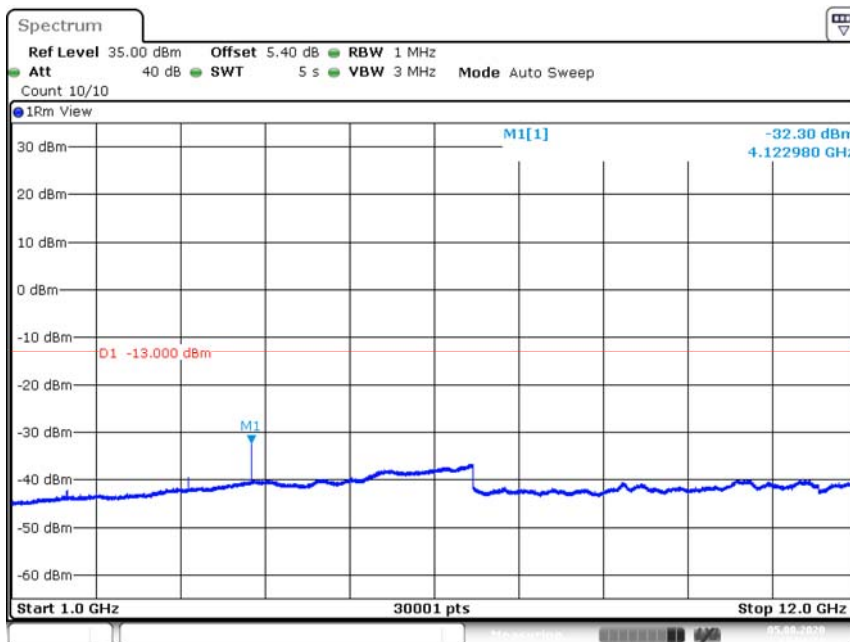
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 11:52:24

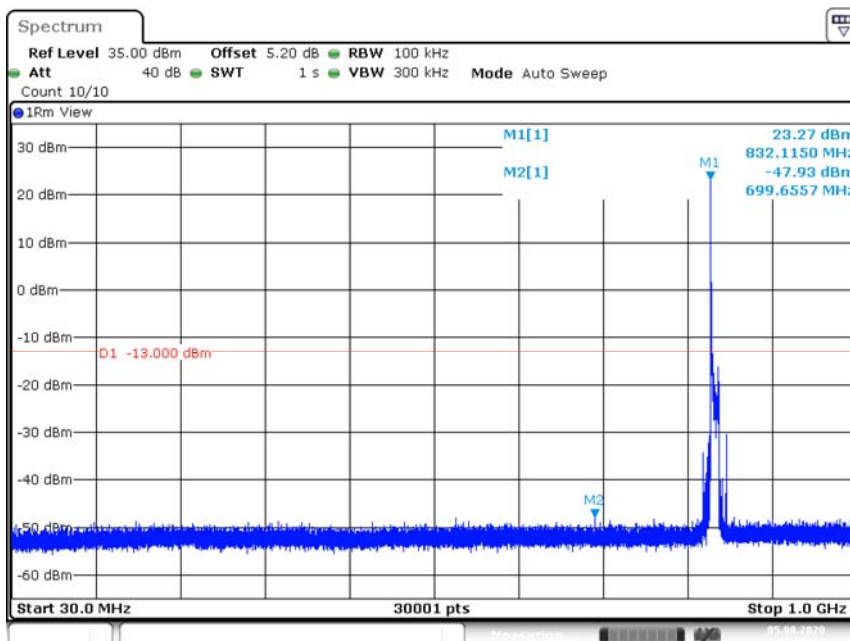


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz



Date: 5.AUG.2020 11:53:31

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



Date: 5.AUG.2020 11:55:18

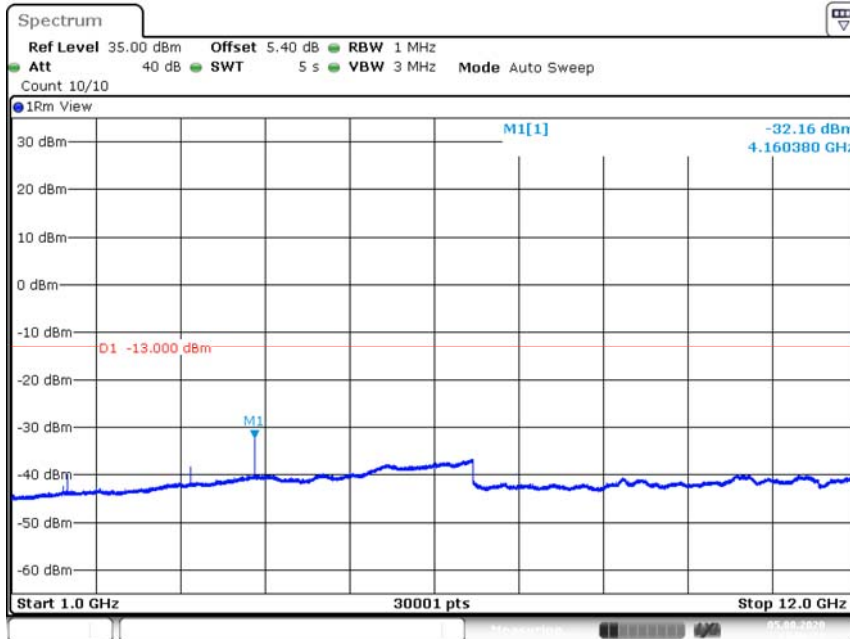


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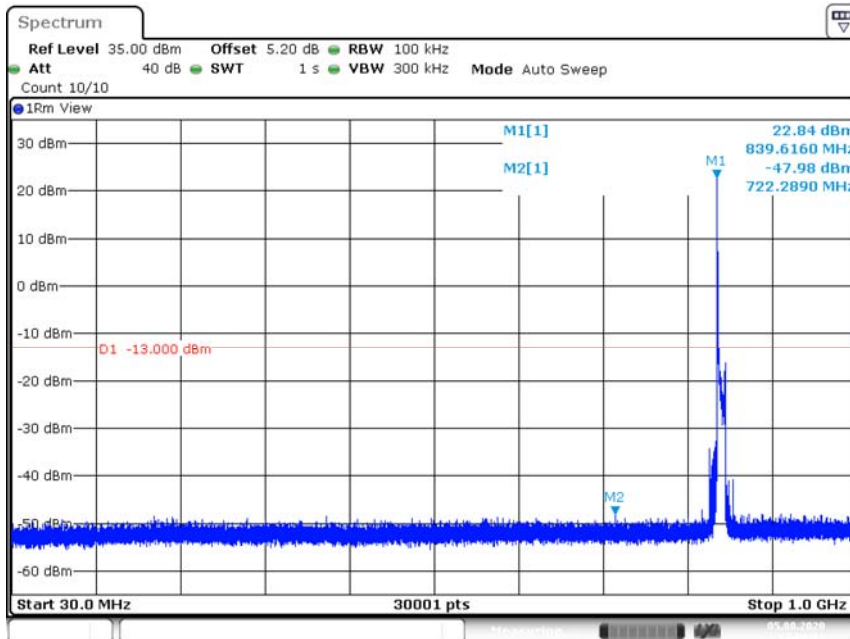
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Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



Date: 5.AUG.2020 11:56:26

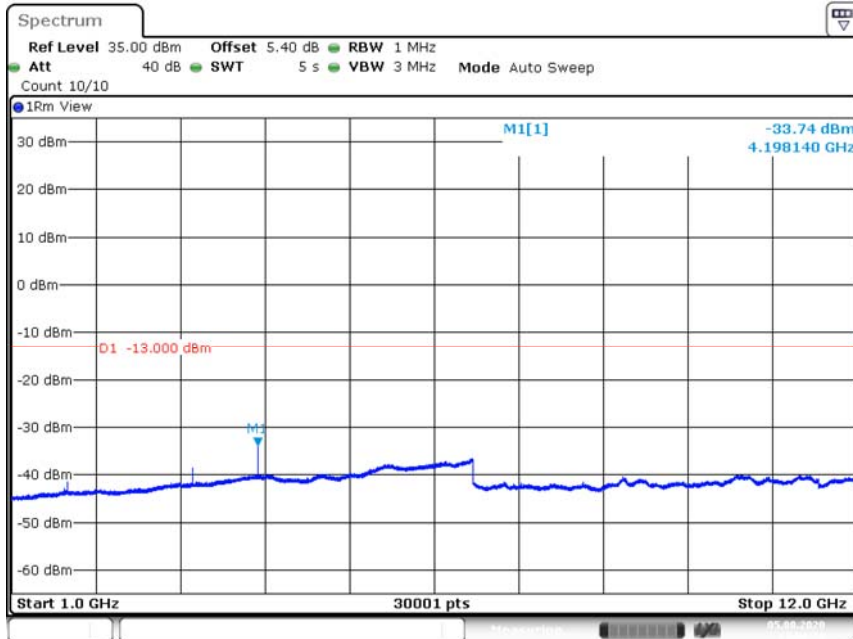
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 11:58:12



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



Date: 5.AUG.2020 11:59:20



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
76.2713	-60.04	-13.00	47.04	266	99	Vertical
1649.3299	-61.17	-13.00	48.17	243	154	Vertical
2473.4947	-54.14	-13.00	41.14	284	245	Vertical
3298.4099	-59.63	-13.00	46.63	211	354	Vertical
4123.2374	-45.83	-13.00	32.83	186	323	Vertical
4947.4649	-57.86	-13.00	44.86	122	323	Vertical
45.3753	-62.34	-13.00	49.34	155	258	Horizontal
1648.9298	-56.83	-13.00	43.83	112	181	Horizontal
2473.4947	-55.56	-13.00	42.56	242	197	Horizontal
3298.2099	-44.47	-13.00	31.47	266	195	Horizontal
4122.6374	-34.62	-13.00	21.62	231	227	Horizontal
4947.4649	-54.04	-13.00	41.04	274	195	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
76.2228	-60.93	-13.00	47.93	266	67	Vertical
109.9805	-62.73	-13.00	49.73	273	354	Vertical
335.8563	-62.85	-13.00	49.85	211	291	Vertical
1664.1328	-62.66	-13.00	49.66	178	180	Vertical
3328.4109	-57.04	-13.00	44.04	196	131	Vertical
4160.6387	-45.90	-13.00	32.90	142	323	Vertical
44.3567	-61.82	-13.00	48.82	199	4	Horizontal
1664.1328	-62.25	-13.00	49.25	175	182	Horizontal
2496.2993	-53.15	-13.00	40.15	133	136	Horizontal
3328.8110	-42.05	-13.00	29.05	172	195	Horizontal
4160.4387	-34.25	-13.00	21.25	114	227	Horizontal
4992.4664	-53.93	-13.00	40.93	198	227	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
76.4168	-60.45	-13.00	47.45	125	131	Vertical
109.8350	-62.37	-13.00	49.37	166	354	Vertical
337.9904	-63.32	-13.00	50.32	185	291	Vertical
3358.4119	-54.91	-13.00	41.91	232	354	Vertical
4198.4399	-48.94	-13.00	35.94	274	354	Vertical
5037.6679	-58.44	-13.00	45.44	218	322	Vertical
162.9937	-64.61	-13.00	51.61	115	99	Horizontal
1678.9358	-58.16	-13.00	45.16	172	180	Horizontal
2519.1038	-54.71	-13.00	41.71	196	137	Horizontal
3358.6120	-39.00	-13.00	26.00	143	195	Horizontal
4198.0399	-35.88	-13.00	22.88	127	227	Horizontal
5037.4679	-55.27	-13.00	42.27	221	227	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-2.20	-0.002654	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-2.40	-0.002844	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-4.40	-0.005213	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	VL	NT	-4.20	-0.005066	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	VN	NT	-5.40	-0.006514	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	VH	NT	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	VL	NT	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	VN	NT	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	VH	NT	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	VL	NT	-5.30	-0.006280	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	VN	NT	-5.90	-0.006991	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	VH	NT	-4.60	-0.005450	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-2.90	-0.003498	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-2.60	-0.003136	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-2.20	-0.002654	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.50	-0.001809	±2.5	PASS



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Band5	10MHz	QPSK	20450	50RB#0	NV	50	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-4.70	-0.005619	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-3.70	-0.004423	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-4.00	-0.004782	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-2.20	-0.002607	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-2.70	-0.003199	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-3.40	-0.004028	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-5.30	-0.006280	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-4.70	-0.005569	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-3.00	-0.003555	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-4.60	-0.005450	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-3.00	-0.003555	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	-30	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	-20	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	-10	-2.50	-0.003016	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	0	-2.80	-0.003378	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	10	-2.20	-0.002654	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	20	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	30	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	40	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20450	32RB#0	NV	50	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	-30	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	-20	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	-10	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	0	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	10	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	20	-2.30	-0.002750	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	30	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	40	-2.60	-0.003108	±2.5	PASS
Band5	10MHz	16QAM	20525	32RB#0	NV	50	-2.30	-0.002750	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	-30	-5.20	-0.006161	±2.5	PASS



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Band5	10MHz	16QAM	20600	32RB#0	NV	-20	-5.00	-0.005924	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	-10	1.60	0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	0	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	10	-5.70	-0.006754	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	20	-4.10	-0.004858	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	30	-3.70	-0.004384	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	40	-3.30	-0.003910	±2.5	PASS
Band5	10MHz	16QAM	20600	32RB#0	NV	50	-2.60	-0.003081	±2.5	PASS

