



Appendix B

E-UTRA Band 5



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CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1.	TEST RESULT	4
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	10
2.1.	TEST RESULT	10
2.2.	TEST PLOTS	10
3.	MODULATION CHARACTERISTICS.....	14
3.1.	TEST MODE = LTE /TM1 10MHz	14
3.1.1.	TEST CHANNEL = MCH	14
3.2.	TEST MODE = LTE /TM2 10MHz	15
3.2.1.	TEST CHANNEL = MCH	15
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	16
4.1.	TEST RESULT	16
4.2.	TEST PLOTS	17
5.	BAND EDGE COMPLIANCE.....	30
5.1.	TEST PLOTS	30
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	47
6.1.	TEST PLOTS	47
7.	FIELD STRENGTH OF SPURIOUS RADIATION	54
7.1.	TEST BAND = _5_ TM1.....	54
7.1.1.	Test Channel = Low	54
7.2.	TEST BAND = _5_ TM1.....	55
7.2.1.	Test Channel = Low	55
7.3.	TEST BAND = _5_ TM1.....	56
7.3.1.	Test Channel = Mid.....	56
7.4.	TEST BAND = _5_ TM1.....	57
7.4.1.	Test Channel = Mid.....	57
7.5.	TEST BAND = _5_ TM1.....	58
7.5.1.	Test Channel = High.....	58
7.6.	TEST BAND = _5_ TM1.....	59
7.6.1.	Test Channel = High.....	59



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8.	FREQUENCY STABILITY	60
8.1.	FREQUENCY VS VOLTAGE	60
8.2.	FREQUENCY VS TEMPERATURE	61



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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	22.53	19.92	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.45	19.84	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.59	19.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.68	20.07	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.76	20.15	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.69	20.08	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.68	19.07	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.47	19.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.68	20.07	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.58	19.97	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.58	19.97	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.62	20.01	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.72	20.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.73	19.12	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.62	20.01	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.73	20.12	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.59	19.98	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.74	20.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.66	20.05	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.60	19.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.70	19.09	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.99	19.38	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.55	18.94	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.50	18.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.73	19.12	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.82	19.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.66	19.05	38.45	PASS



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Band5	1.4MHz	16QAM	20407	6RB#0	20.45	17.84	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.06	18.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.21	18.60	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.12	18.51	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.48	18.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.64	19.03	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.54	18.93	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.51	17.90	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.20	19.59	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.95	19.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.02	19.41	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.71	19.10	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.73	19.12	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.46	18.85	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.66	18.05	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.44	19.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.79	20.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.67	20.06	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.67	19.06	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.76	19.15	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.71	19.10	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.69	19.08	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.66	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.62	20.01	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.64	20.03	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.68	19.07	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.73	19.12	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.60	18.99	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.67	19.06	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.60	19.99	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.81	20.20	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.30	19.69	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.68	19.07	38.45	PASS



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Band5	3MHz	QPSK	20635	8RB#4	21.87	19.26	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.72	19.11	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.68	19.07	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	20.91	18.30	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	20.99	18.38	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.09	18.48	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.54	17.93	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.64	18.03	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.62	18.01	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.68	18.07	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	20.87	18.26	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.18	18.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.89	18.28	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.67	18.06	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.63	18.02	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.78	18.17	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.92	18.31	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.50	18.89	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.65	19.04	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.29	18.68	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.64	18.03	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.80	18.19	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.83	18.22	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.76	18.15	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.54	19.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.62	20.01	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.35	19.74	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.79	19.18	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.78	19.17	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.75	19.14	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.69	19.08	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.25	19.64	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.13	19.52	38.45	PASS



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Band5	5MHz	QPSK	20525	1RB#24	22.28	19.67	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.58	18.97	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.66	19.05	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.60	18.99	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.60	18.99	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.42	19.81	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.52	19.91	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.39	19.78	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.63	19.02	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.69	19.08	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.72	19.11	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.59	18.98	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.90	19.29	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.02	19.41	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.95	18.34	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.47	17.86	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.57	17.96	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.53	17.92	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.64	18.03	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.30	18.69	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.06	18.45	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.60	18.99	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.55	17.94	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.51	17.90	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.39	17.78	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.58	17.97	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.68	19.07	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.54	18.93	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.45	18.84	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.72	18.11	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.86	18.25	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.86	18.25	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.55	17.94	38.45	PASS



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Band5	10MHz	QPSK	20450	1RB#0	22.65	20.04	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.76	20.15	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.61	20.00	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.82	19.21	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.76	19.15	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.79	19.18	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.75	19.14	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.44	19.83	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.93	20.32	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.56	19.95	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.75	19.14	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.71	19.10	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.68	19.07	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.65	19.04	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.46	19.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.67	20.06	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.44	19.83	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.76	19.15	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.77	19.16	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.66	19.05	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.71	19.10	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.29	18.68	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.89	19.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.48	18.87	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.67	18.06	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.69	18.08	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.62	18.01	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.70	18.09	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.20	18.59	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.25	18.64	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.05	18.44	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.67	18.06	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.92	18.31	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#25	20.74	18.13	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.73	18.12	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.14	18.53	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.21	18.60	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.44	18.83	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.64	18.03	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.64	18.03	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.61	18.00	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.64	18.03	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]

The conducted Power is measured by Base Station Simulator



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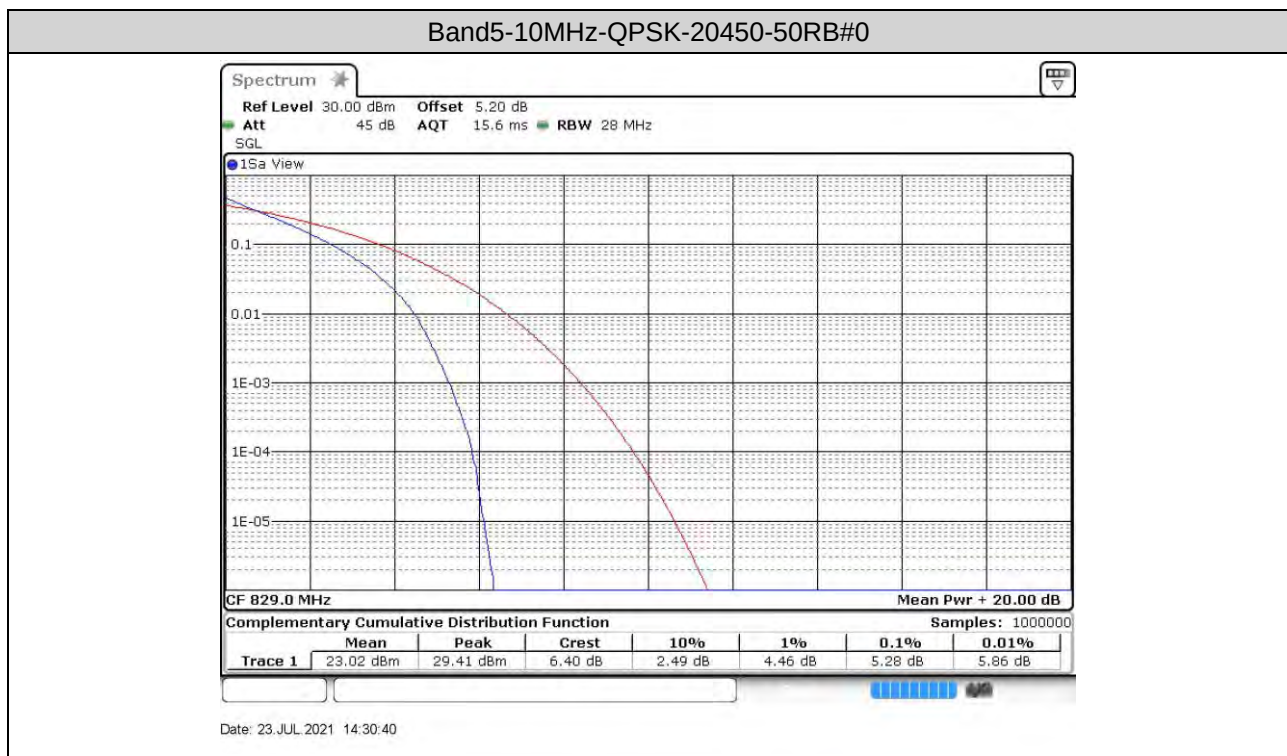


2. Peak-to-Average Ratio (CCDF)

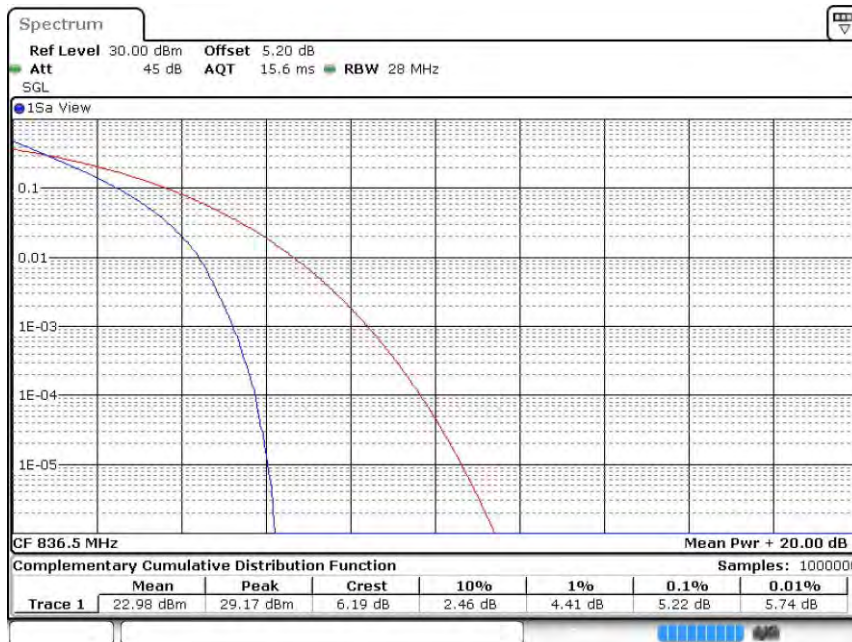
2.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.28	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.22	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.16	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.00	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS

2.2. Test Plots

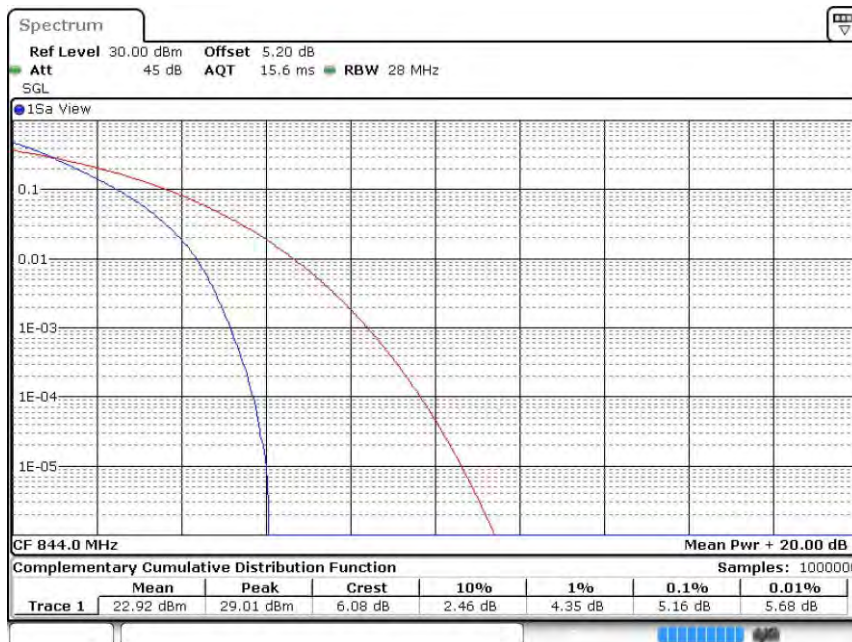


Band5-10MHz-QPSK-20525-50RB#0



Date: 23.JUL.2021 14:31:12

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



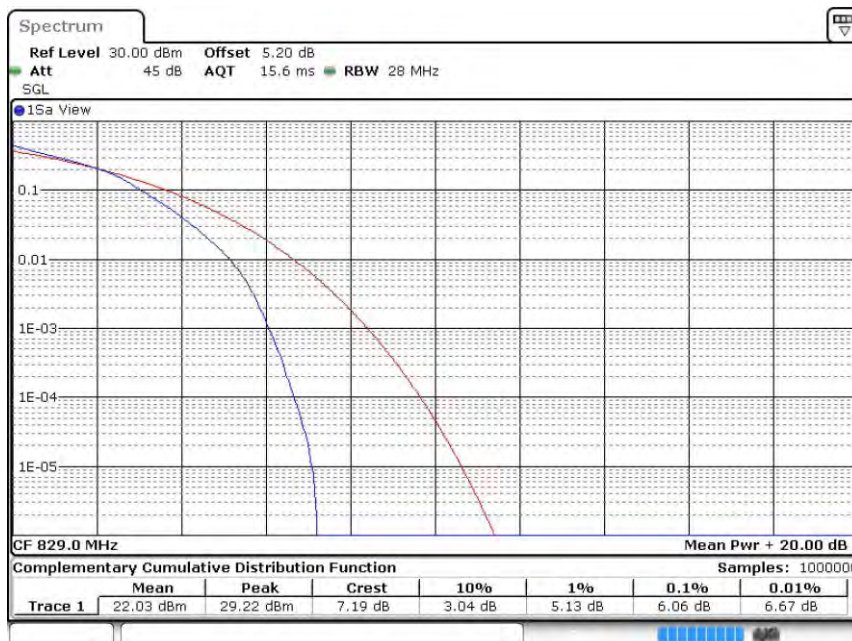
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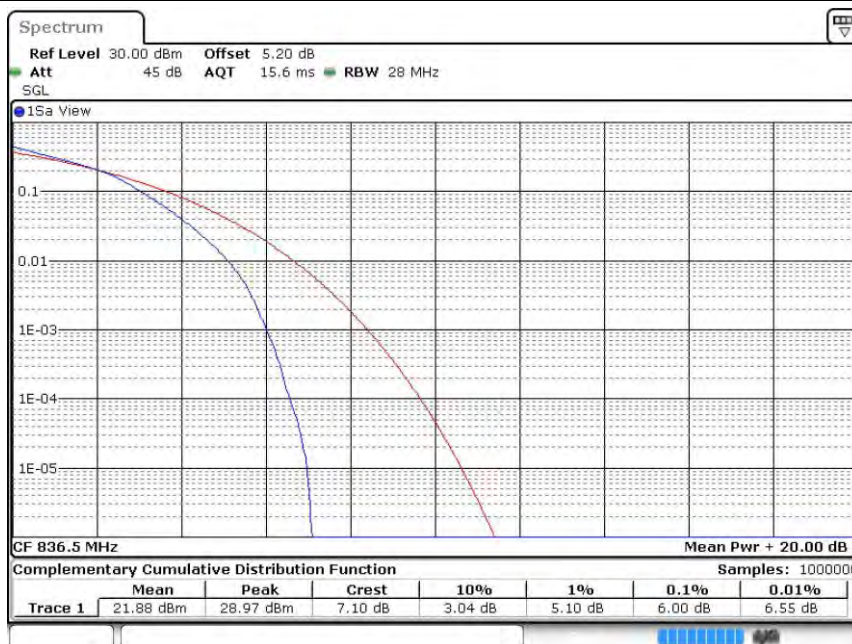
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Band5-10MHz-16QAM-20450-50RB#0



Date: 23.JUL.2021 14:30:56

Band5-10MHz-16QAM-20525-50RB#0

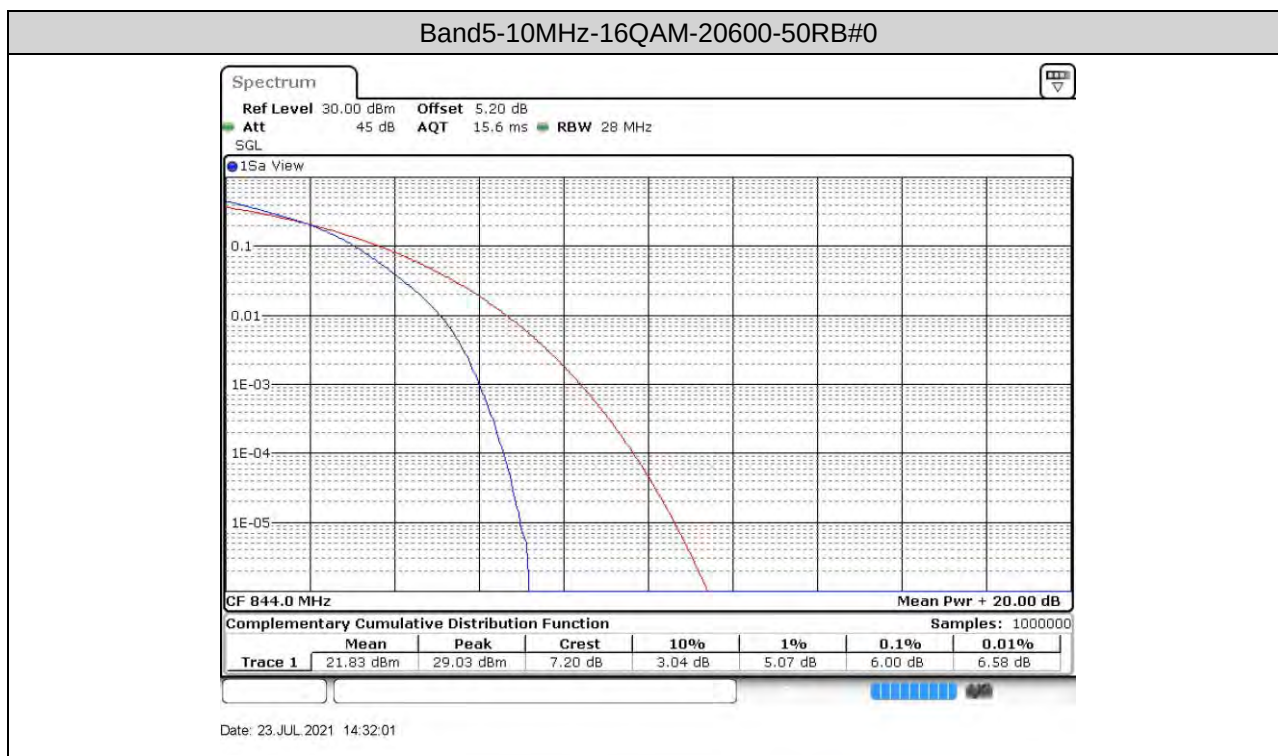


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Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.

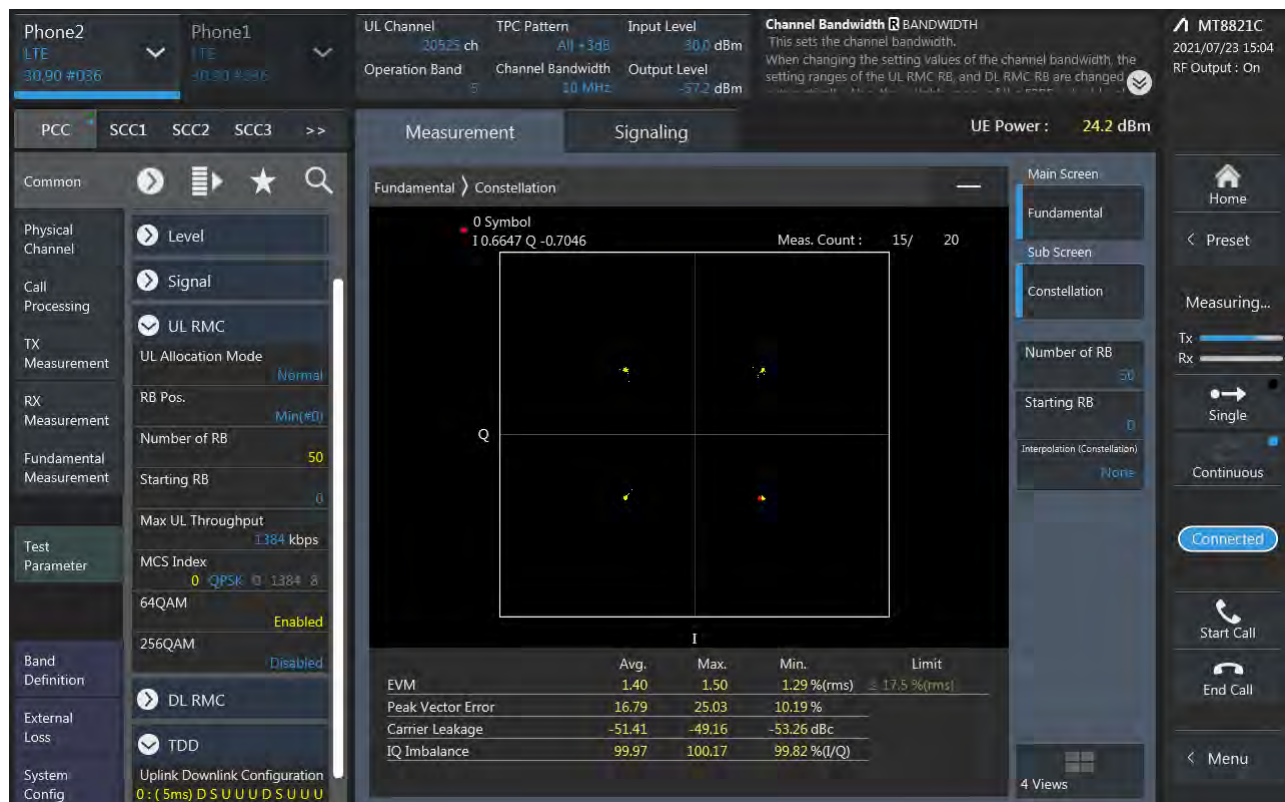




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

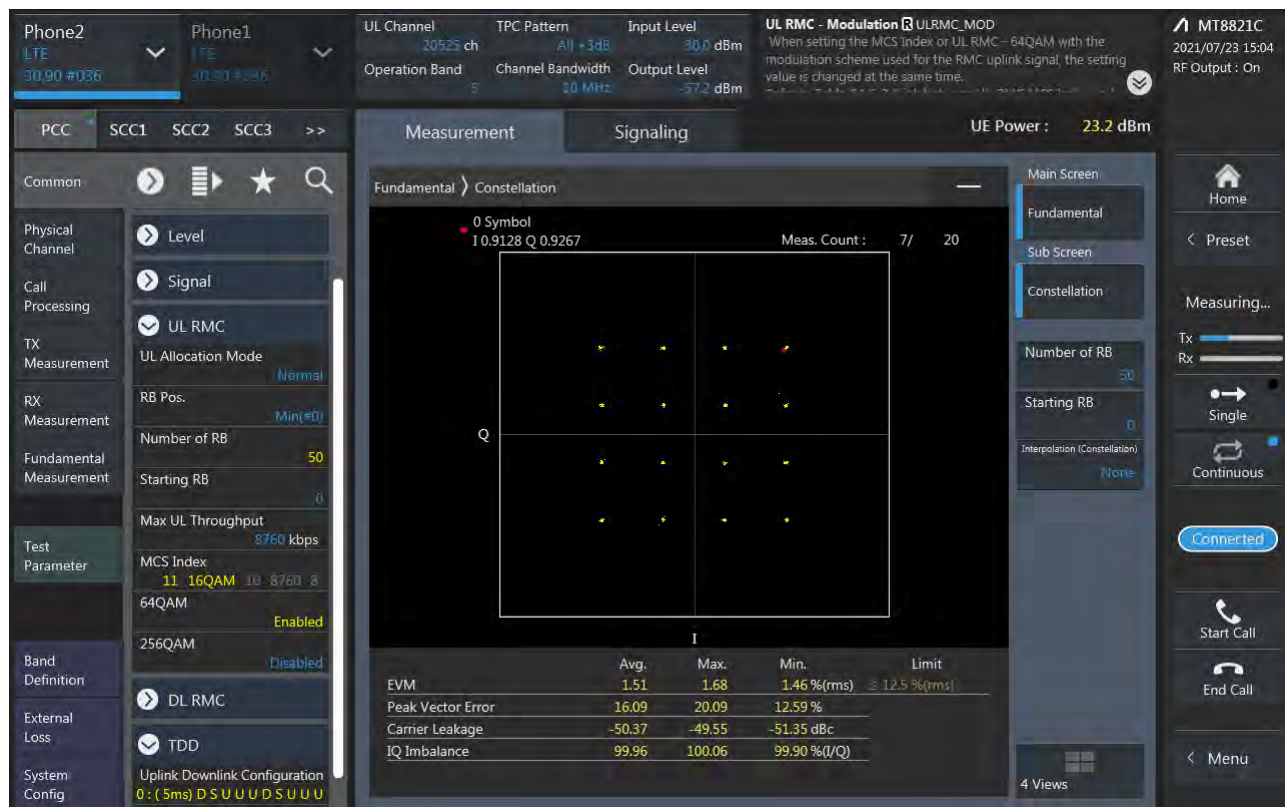
3.1.1. Test Channel = MCH





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	1.088	1.275	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.278	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.275	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.284	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.290	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.958	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.970	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.964	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.988	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.988	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.982	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.810	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.870	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.890	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.920	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.920	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.951	9.580	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.680	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.620	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.680	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.891	9.660	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.660	PASS



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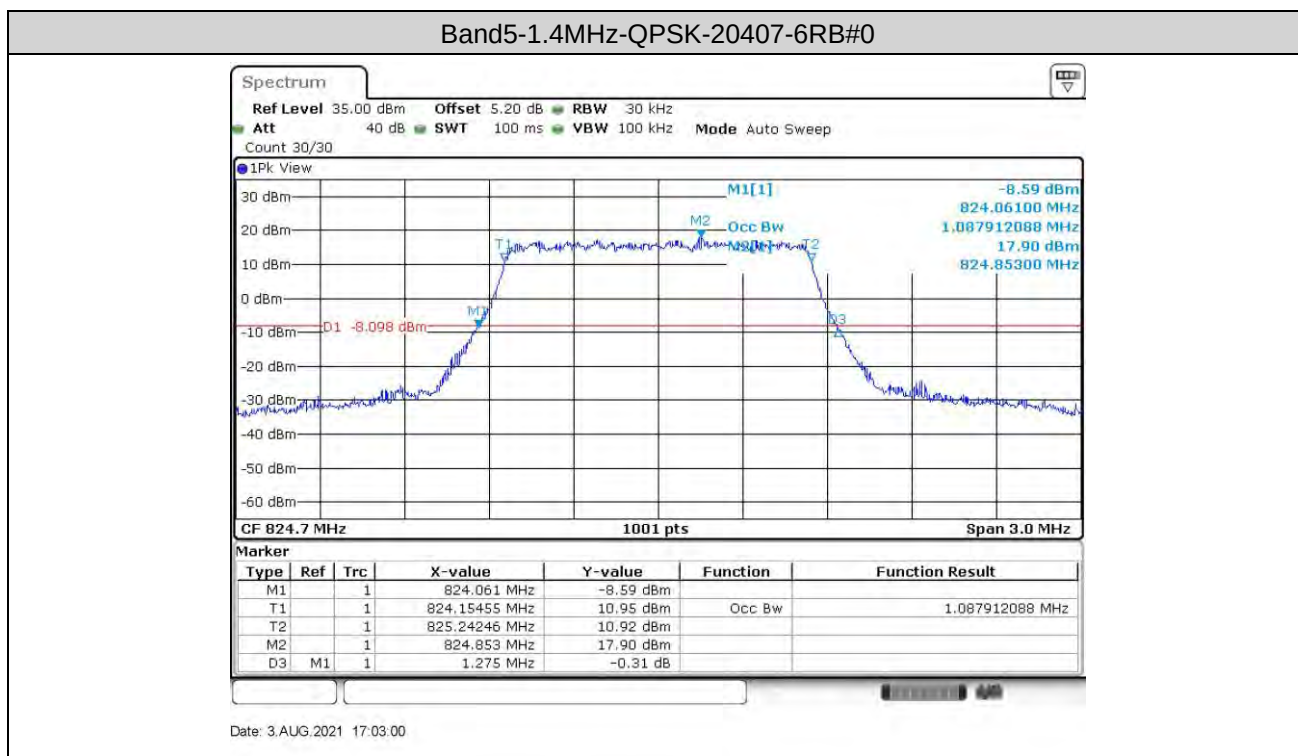
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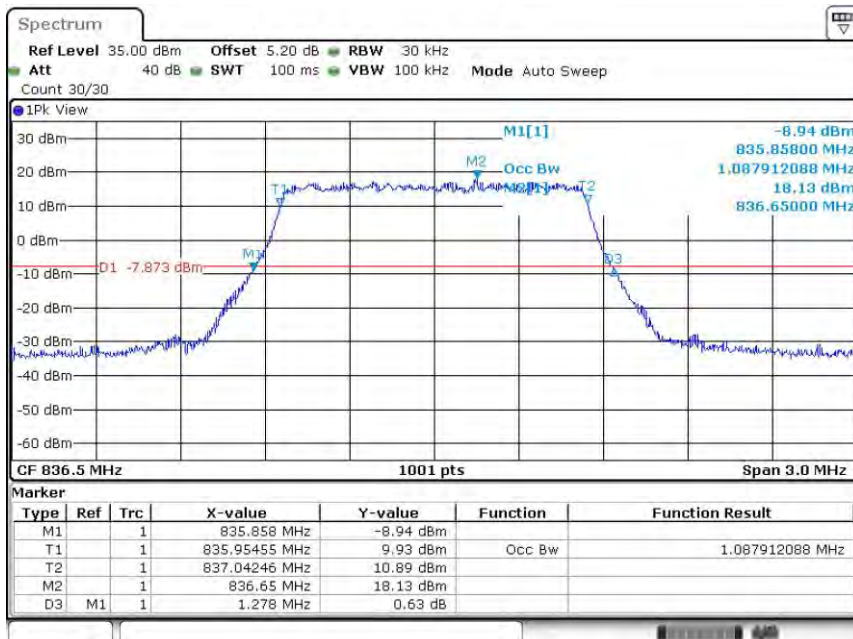
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4.2. Test Plots

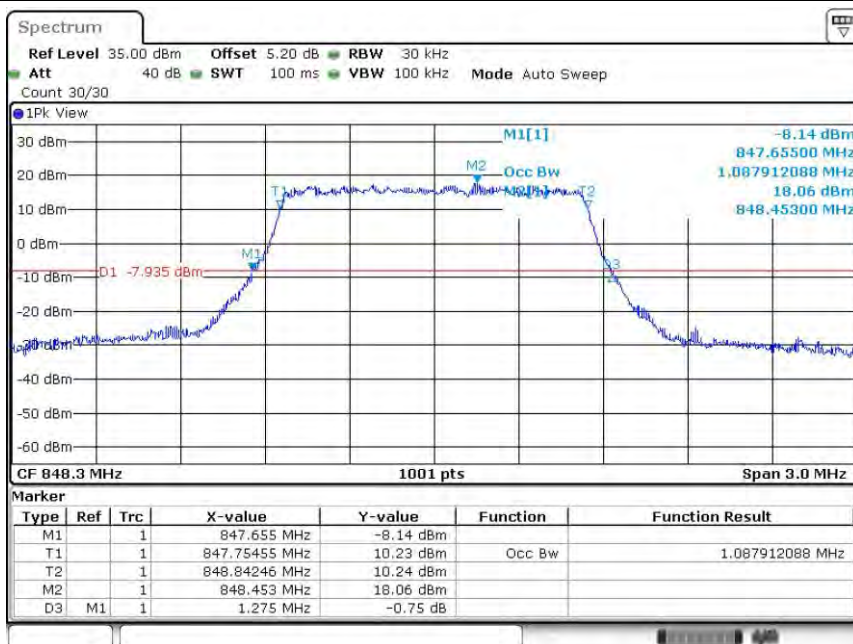


Band5-1.4MHz-QPSK-20525-6RB#0



Date: 3.AUG.2021 17:03:33

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



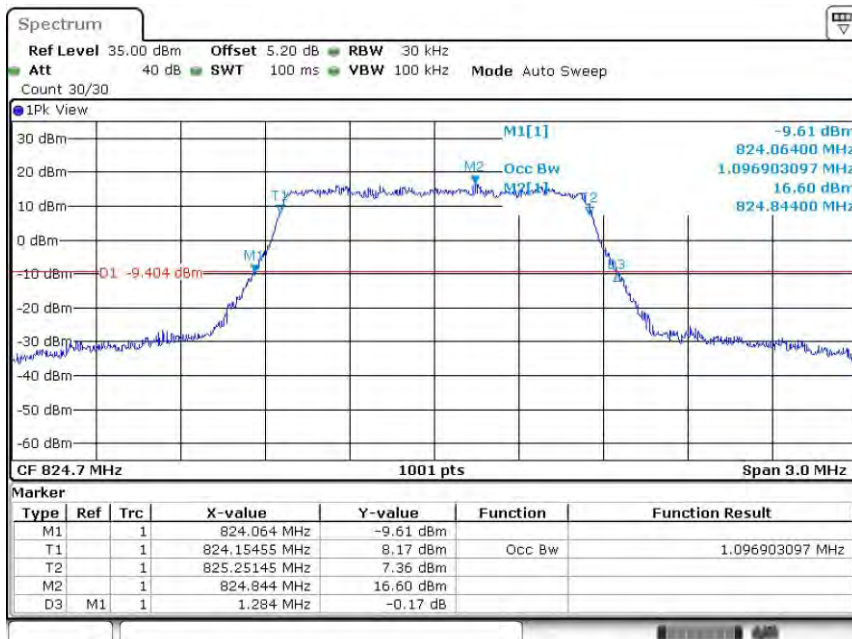
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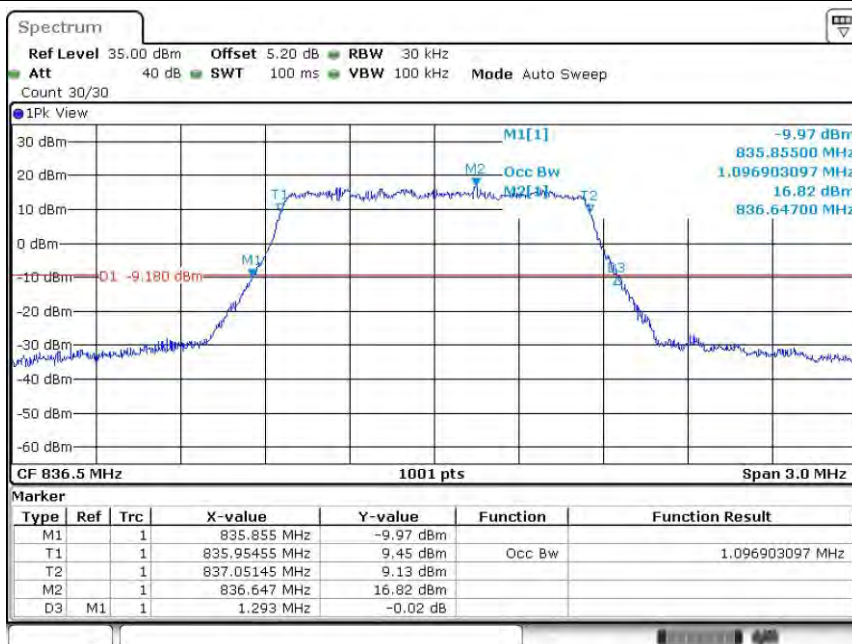
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Band5-1.4MHz-16QAM-20407-6RB#0



Date: 3.AUG.2021 17:03:16

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



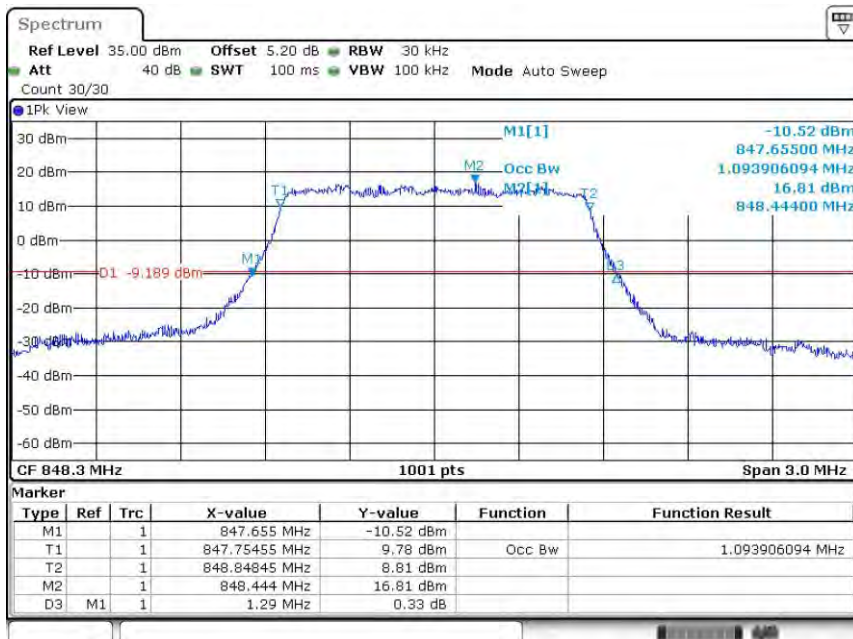
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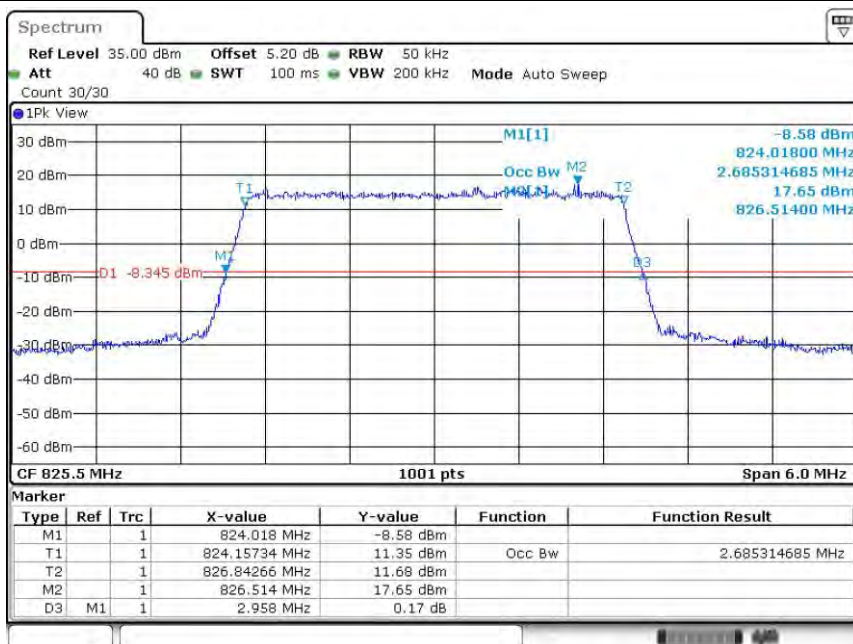
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Band5-1.4MHz-16QAM-20643-6RB#0



Date: 3.AUG.2021 17:04:23

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



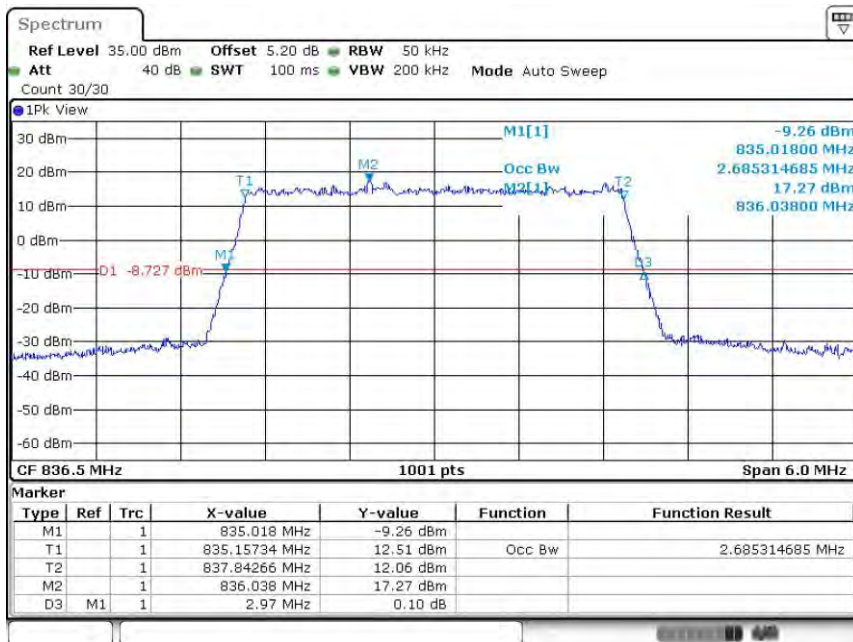
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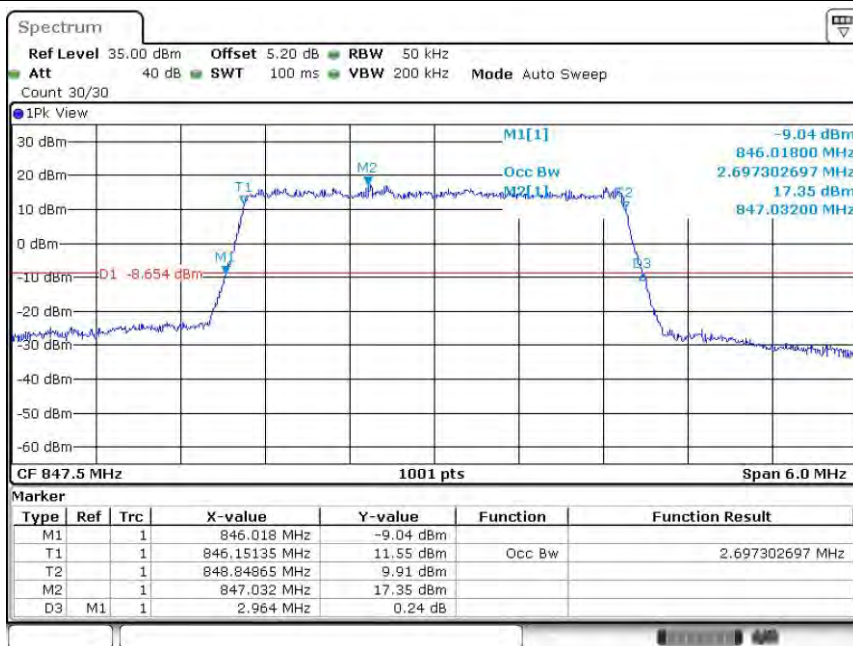
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Band5-3MHz-QPSK-20525-15RB#0



Date: 23.JUL 2021 13:57:13

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



Date: 23.JUL 2021 13:57:48



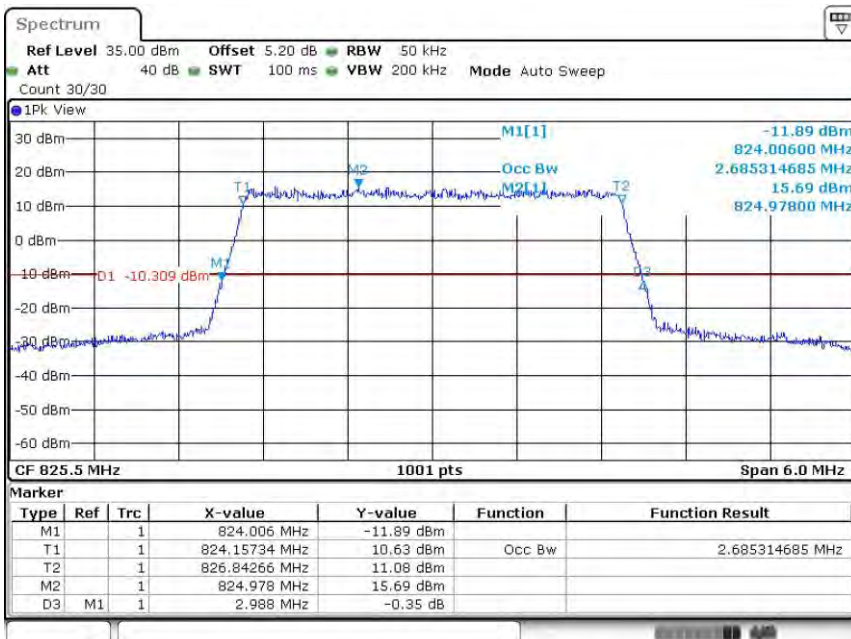
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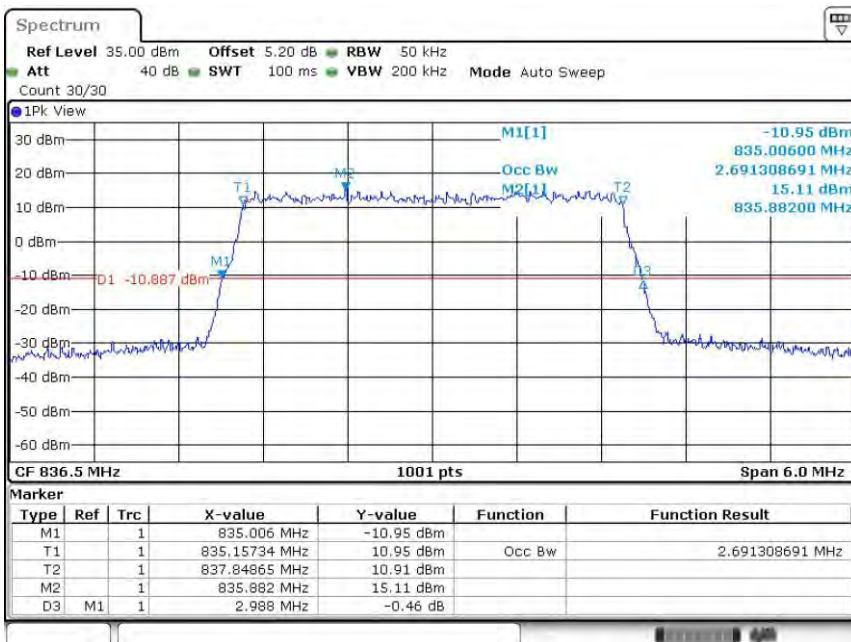
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Band5-3MHz-16QAM-20415-15RB#0



Date: 23.JUL 2021 13:56:55

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



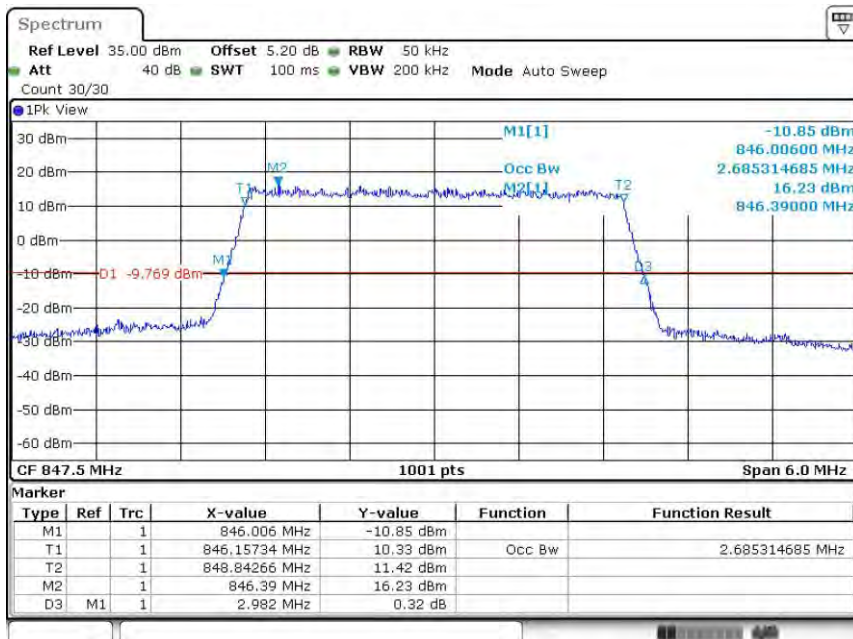
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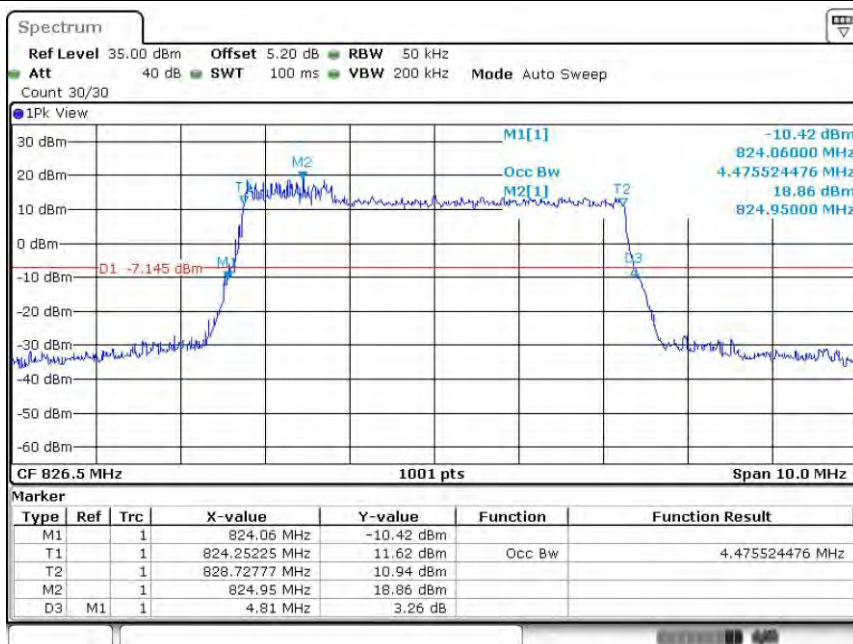
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Band5-3MHz-16QAM-20635-15RB#0



Date: 23.JUL 2021 13:58:06

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



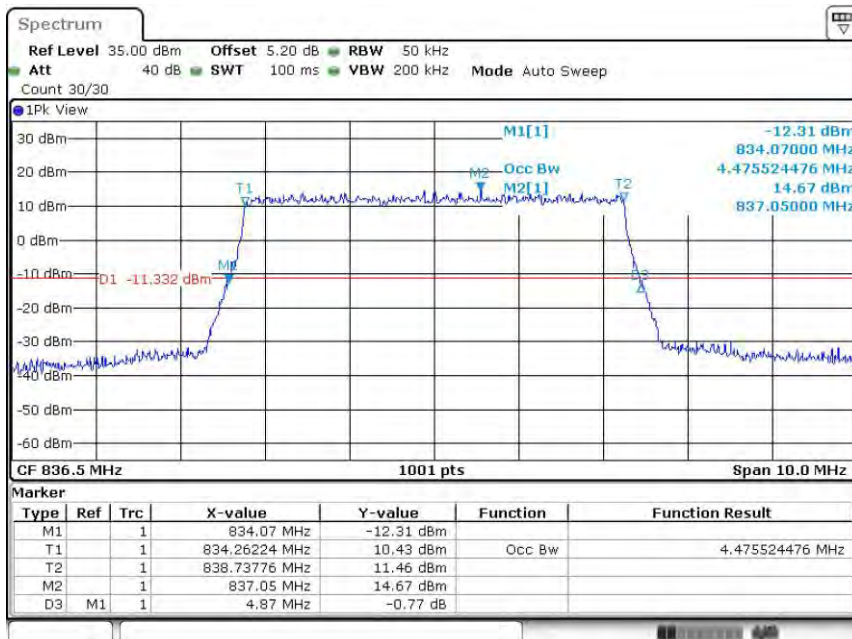
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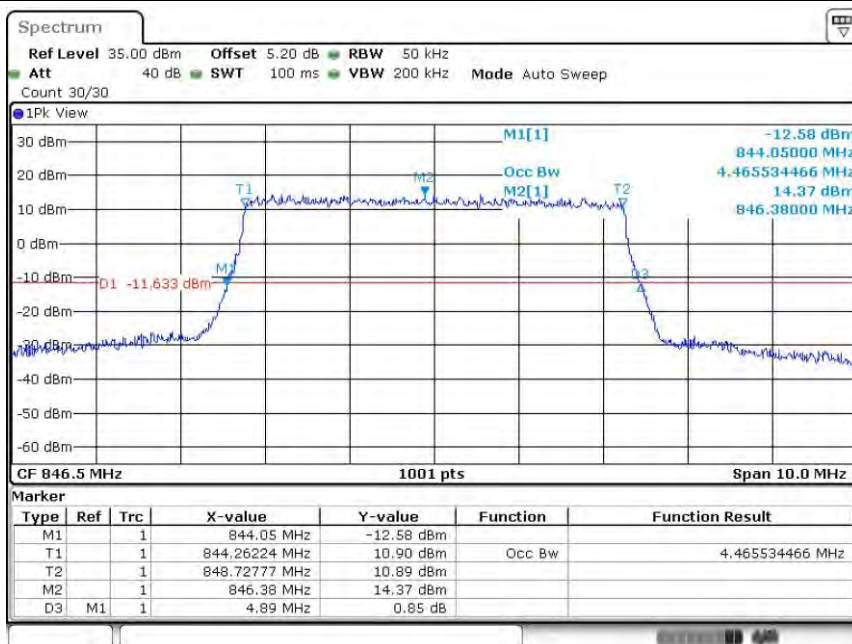
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Band5-5MHz-QPSK-20525-25RB#0



Date: 23.JUL 2021 13:59:24

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



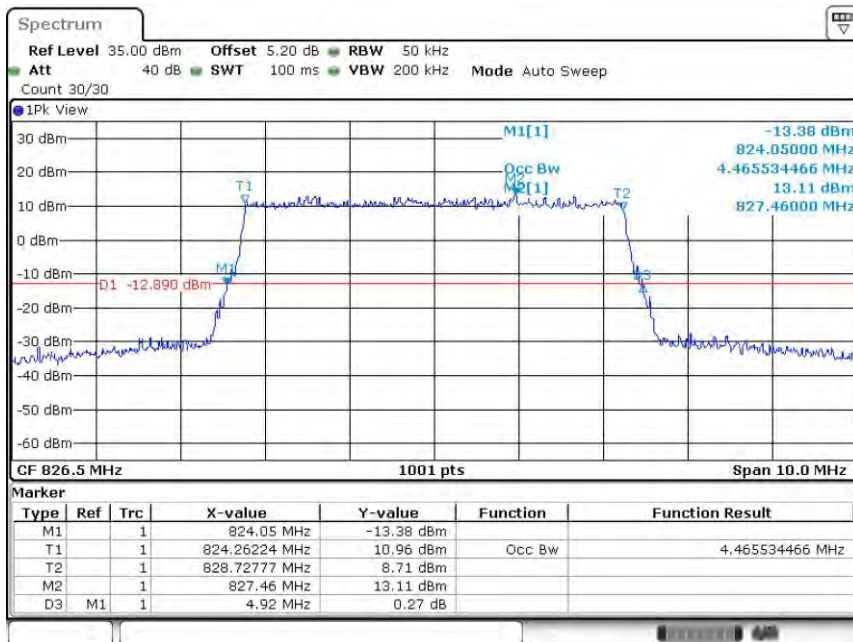
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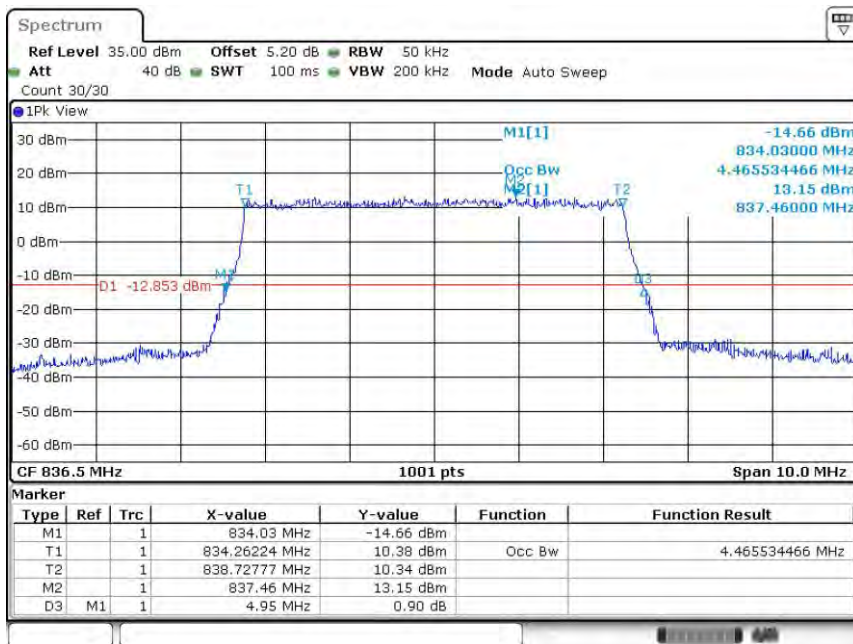
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Band5-5MHz-16QAM-20425-25RB#0



Date: 23.JUL 2021 13:59:06

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



Date: 23.JUL 2021 13:59:42

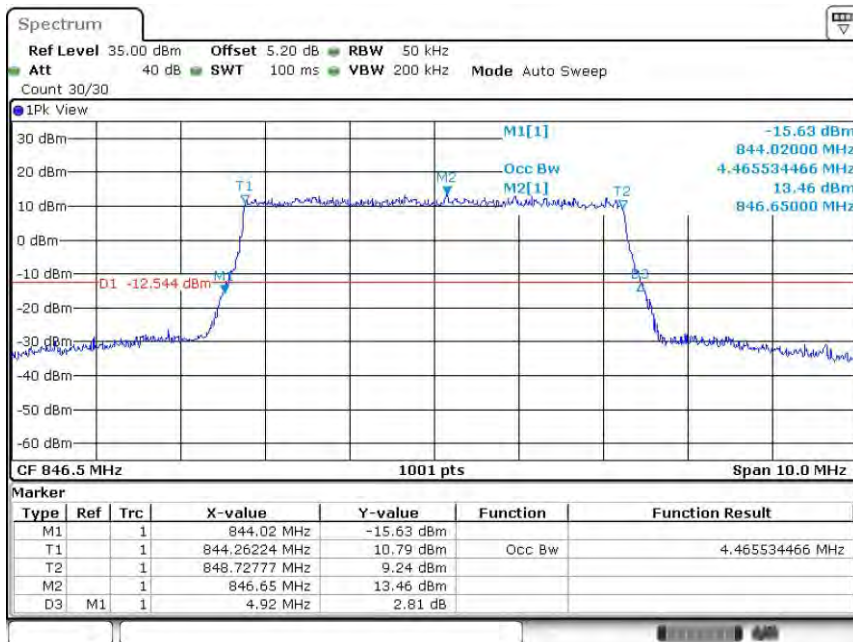


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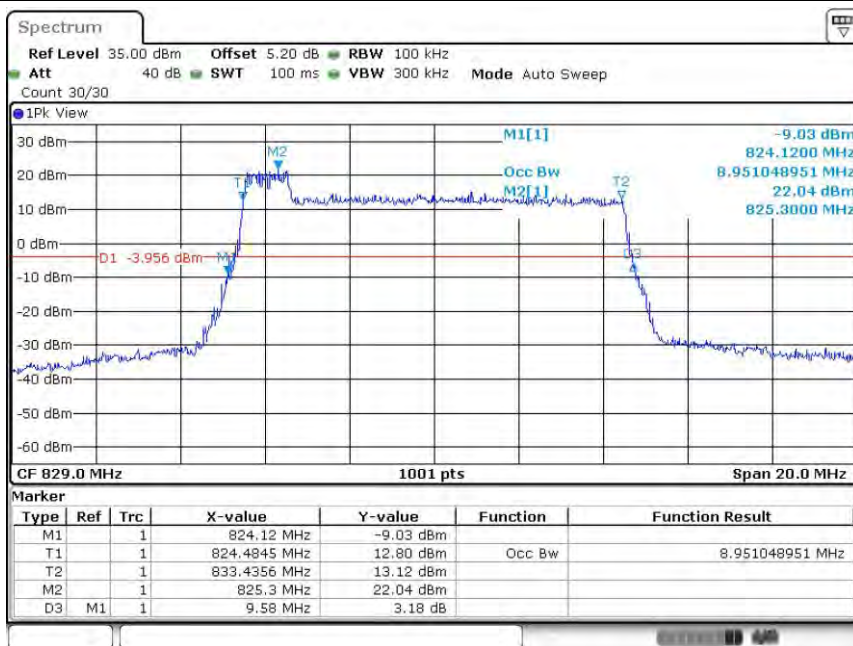
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Band5-5MHz-16QAM-20625-25RB#0



Date: 23.JUL 2021 14:00:17

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



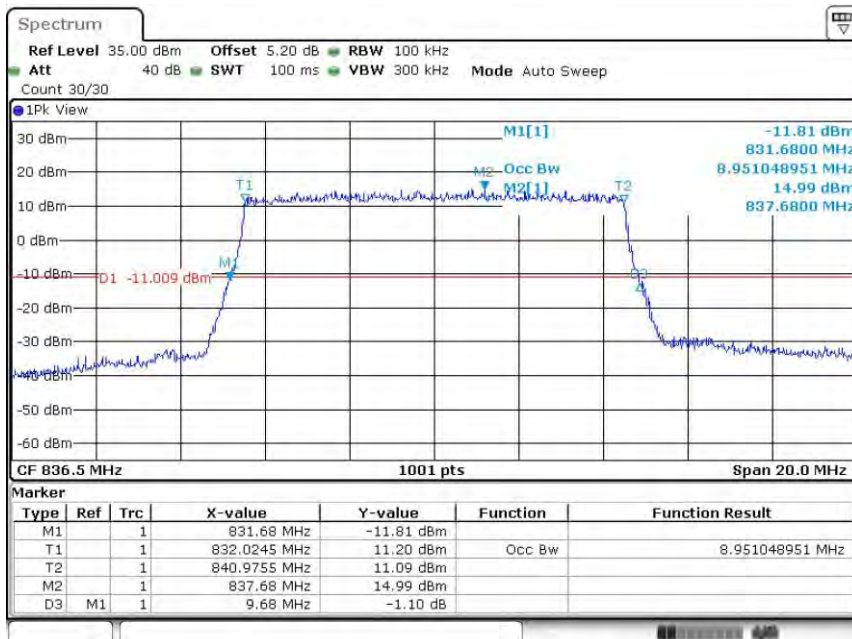
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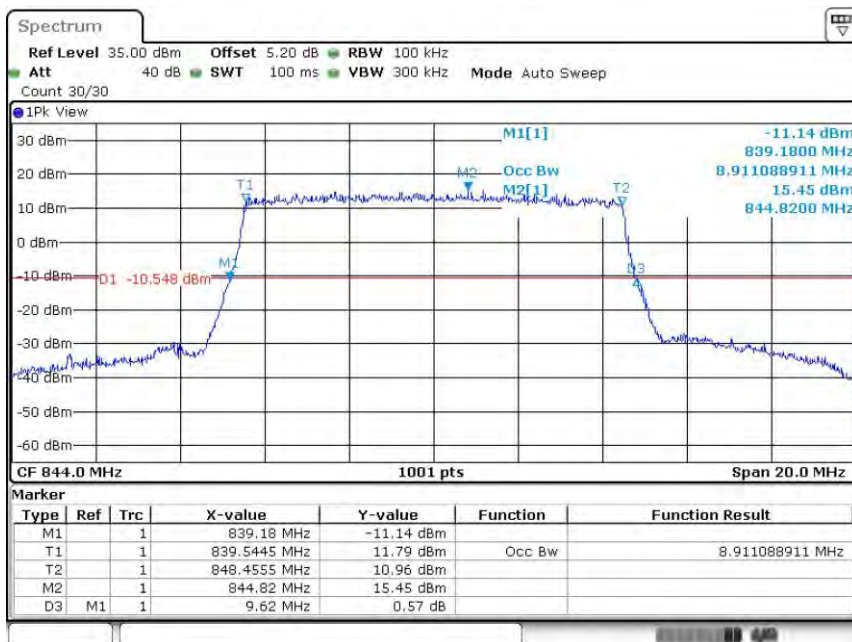
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Band5-10MHz-QPSK-20525-50RB#0



Date: 23.JUL 2021 14:01:31

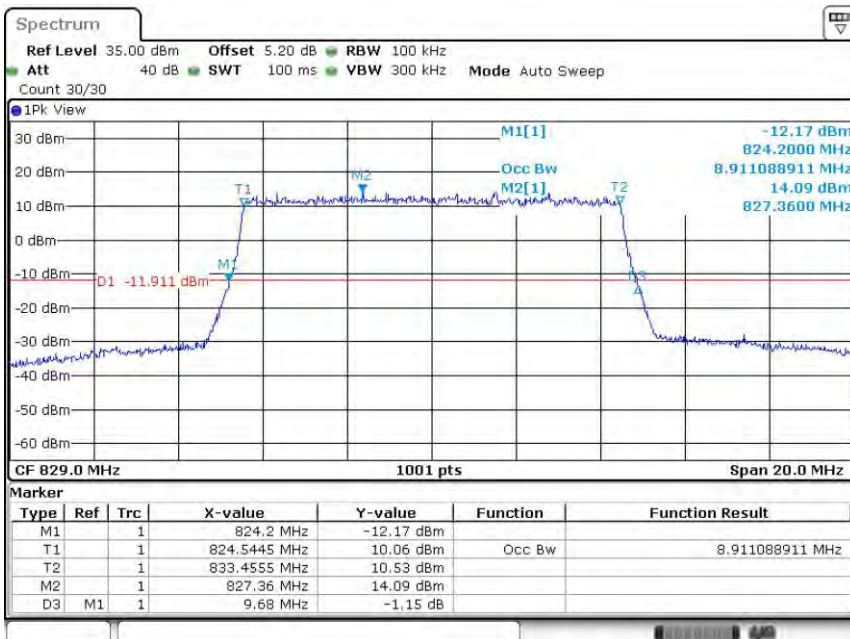
Band5-10MHz-QPSK-20600-50RB#0



Date: 23.JUL 2021 14:02:06

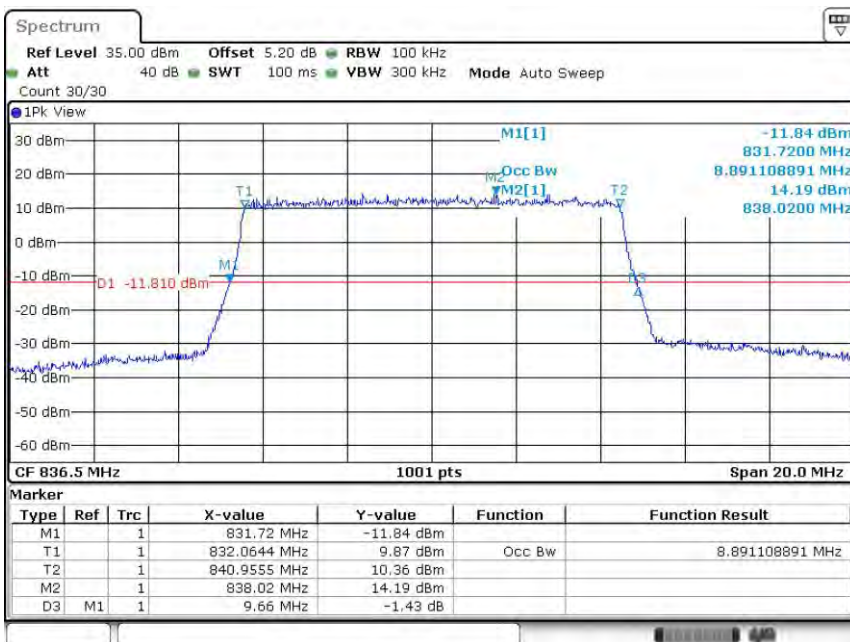


Band5-10MHz-16QAM-20450-50RB#0



Date: 23.JUL.2021 14:01:13

Band5-10MHz-16QAM-20525-50RB#0



Date: 23.JUL.2021 14:01:48



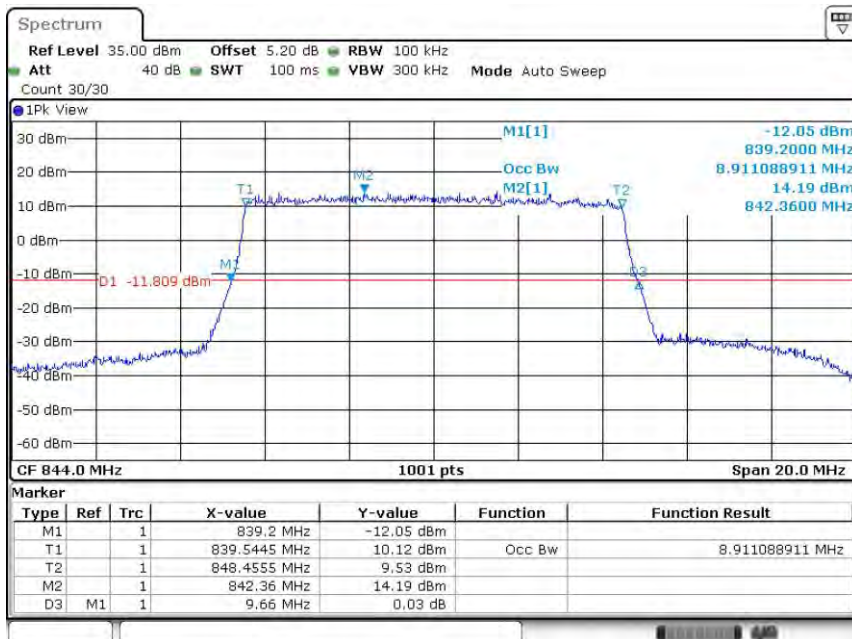
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Band5-10MHz-16QAM-20600-50RB#0



Date: 23.JUL.2021 14:02:23





5. Band Edge Compliance

5.1. Test Plots



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



Date: 23 JUL 2021 14:04:05

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



Date: 23 JUL 2021 14:05:22



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



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



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



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



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



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



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



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



Date: 23 JUL 2021 14:08:48

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



Date: 23 JUL 2021 14:10:03



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



Date: 23.JUL.2021 14:10:55

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



Date: 23.JUL.2021 14:12:02



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



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



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



Date: 23.JUL.2021 14:15:25

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



Date: 23.JUL.2021 14:12:28



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



Date: 23.JUL.2021 14:13:19

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



Date: 23.JUL.2021 14:14:59



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



Date: 23 JUL 2021 14:15:50

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



Date: 23 JUL 2021 14:21:41



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



Date: 23.JUL.2021 14:22:32

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



Date: 23.JUL.2021 14:23:48



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



Date: 23.JUL.2021 14:24:40

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



Date: 23.JUL.2021 14:22:06



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Band5-10MHz-16QAM-20450-50RB#0



Date: 23 JUL 2021 14:22:58

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

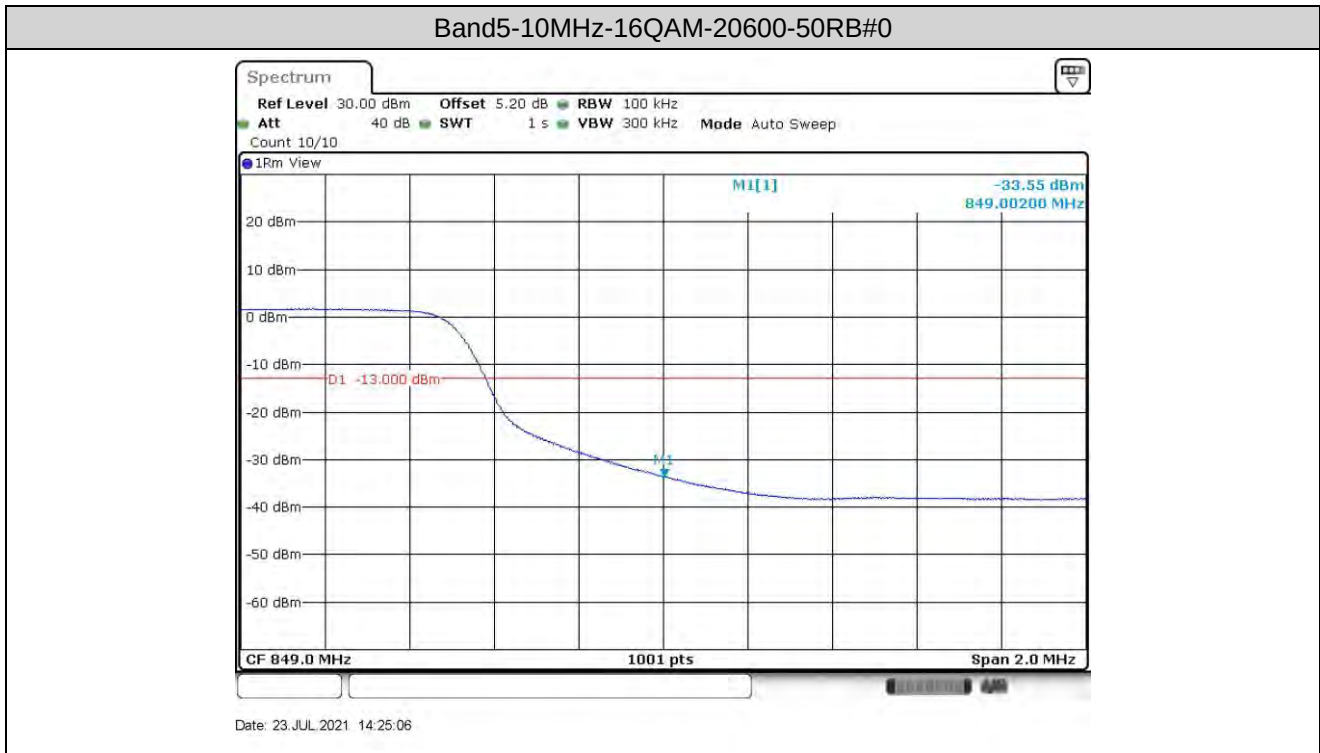


Date: 23 JUL 2021 14:24:14



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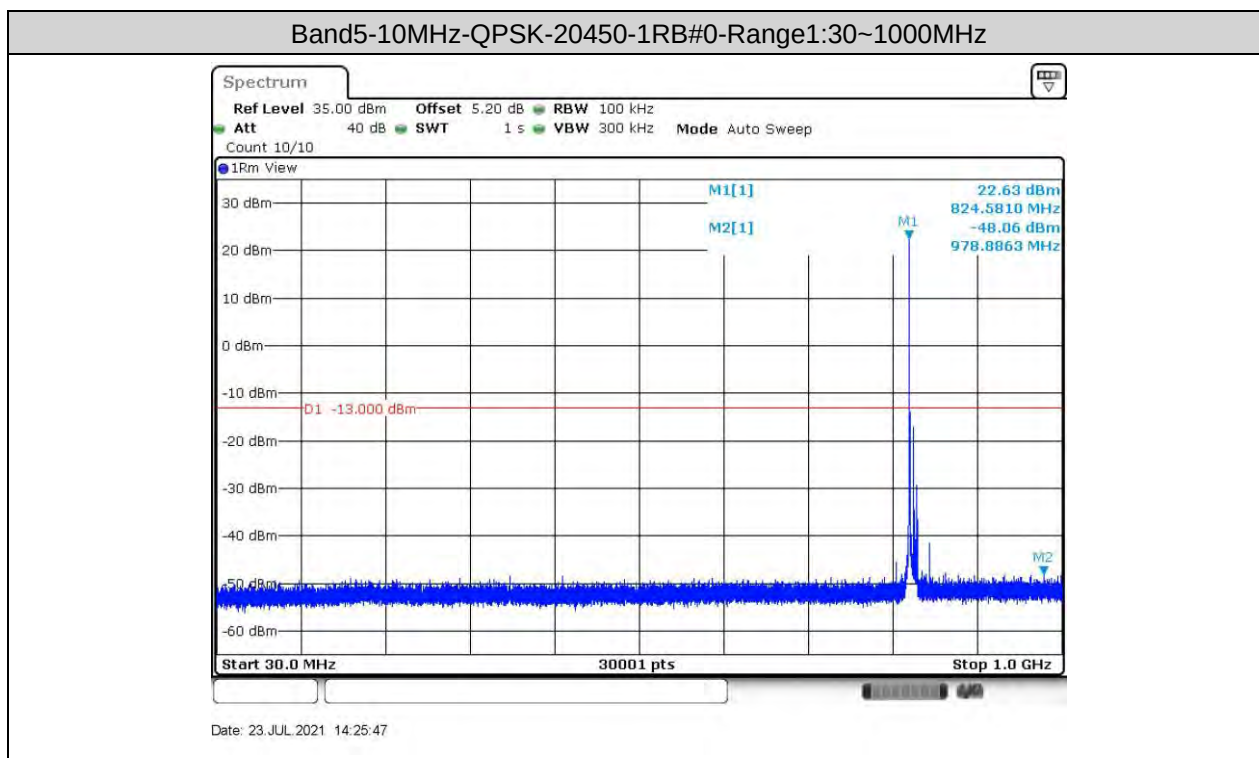
6. Spurious Emission at Antenna Terminal

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: 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.

Remark3: 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.

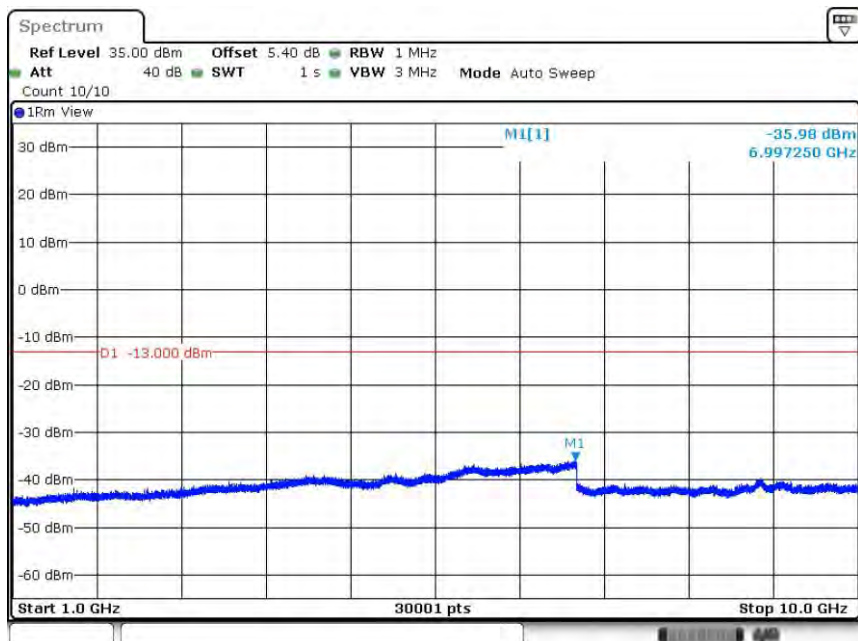
6.1. Test Plots



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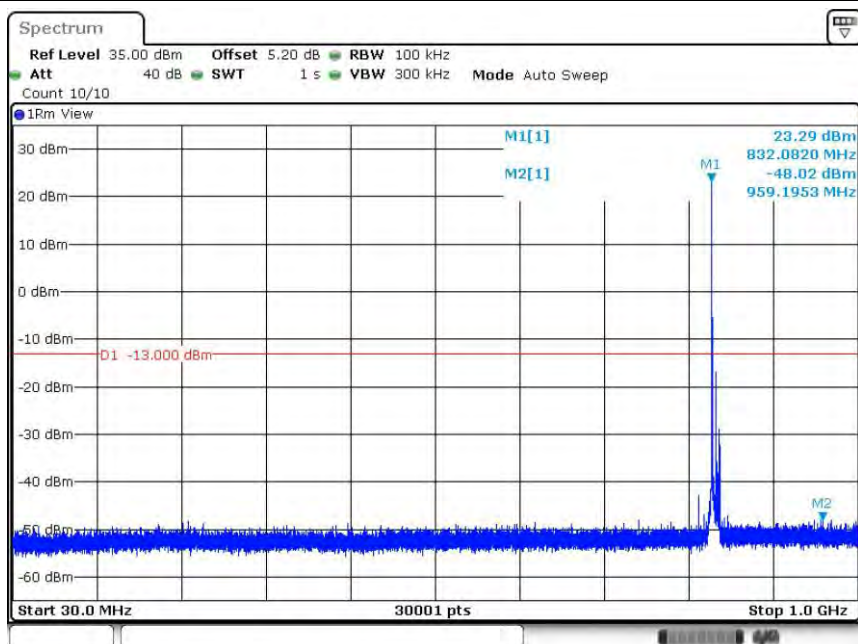
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Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 14:26:03

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



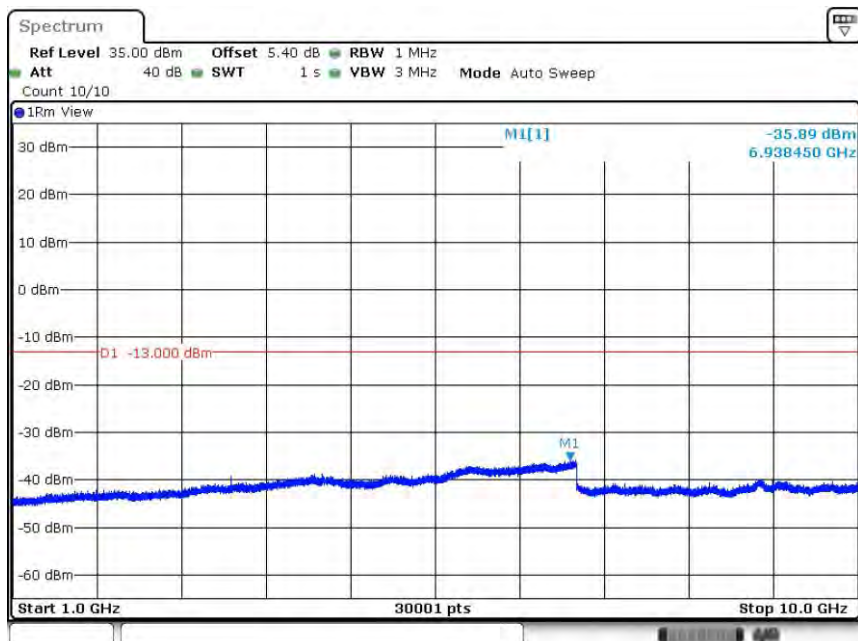
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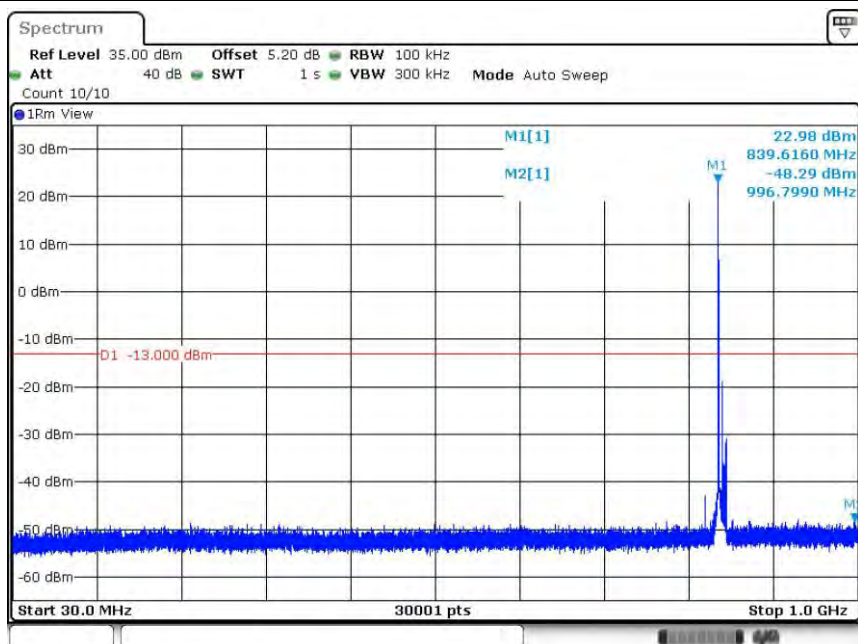
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Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 14:27:25

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



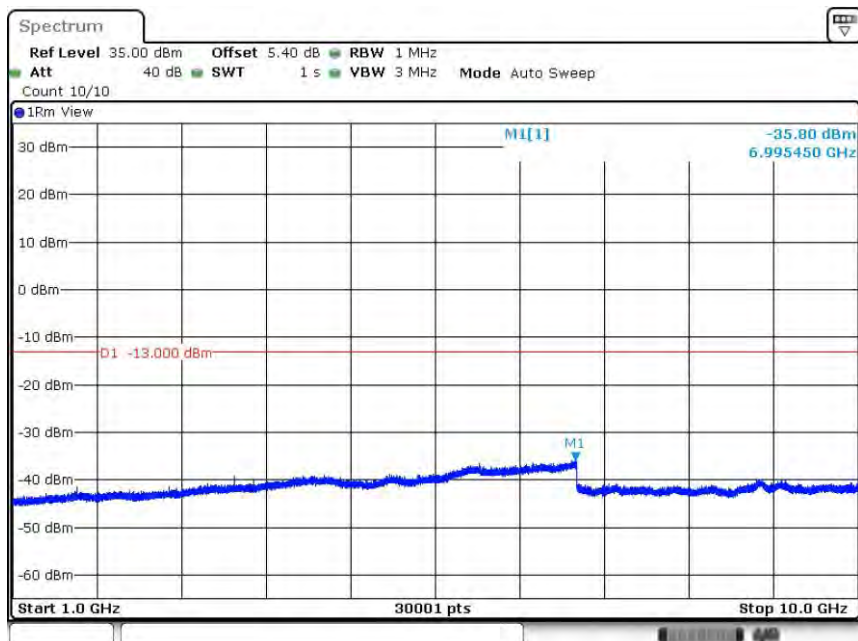
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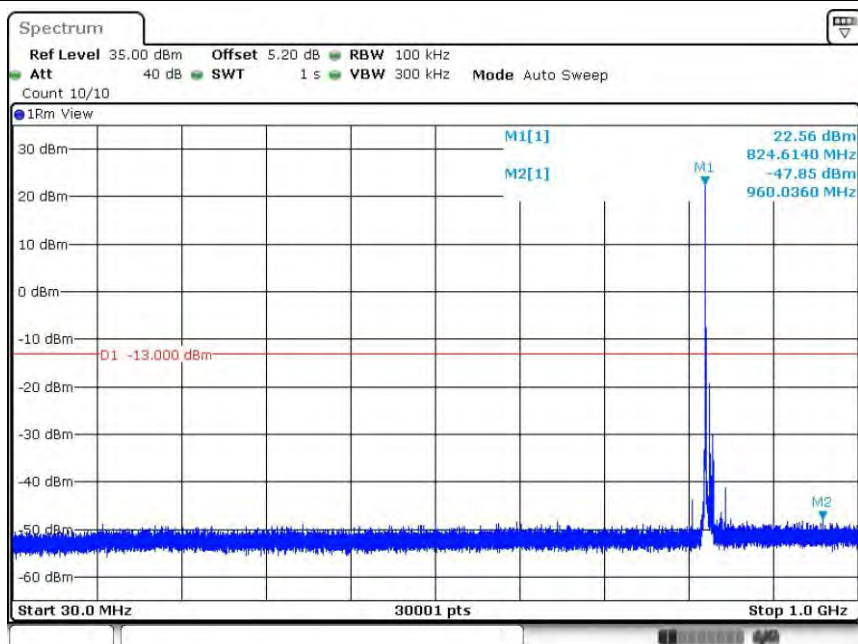
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Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 14:28:48

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



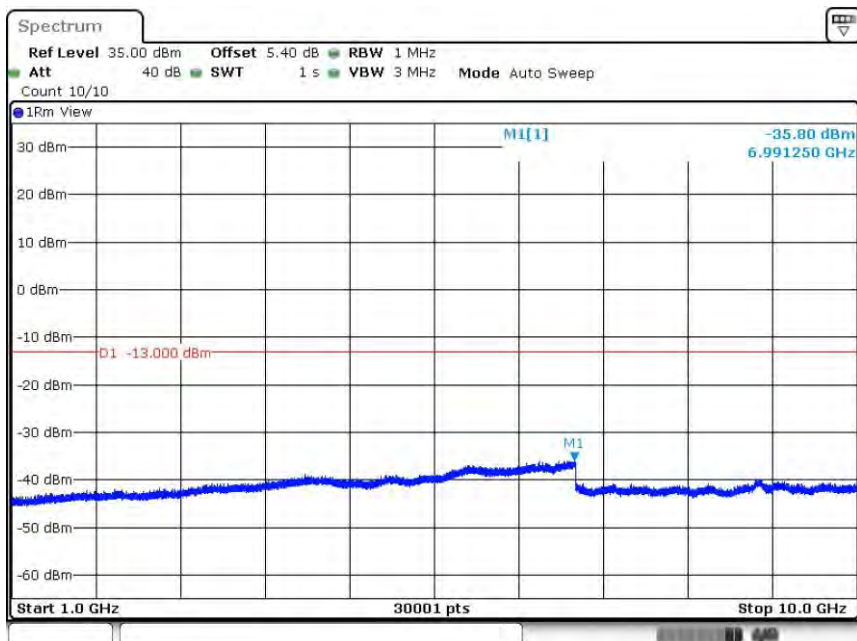
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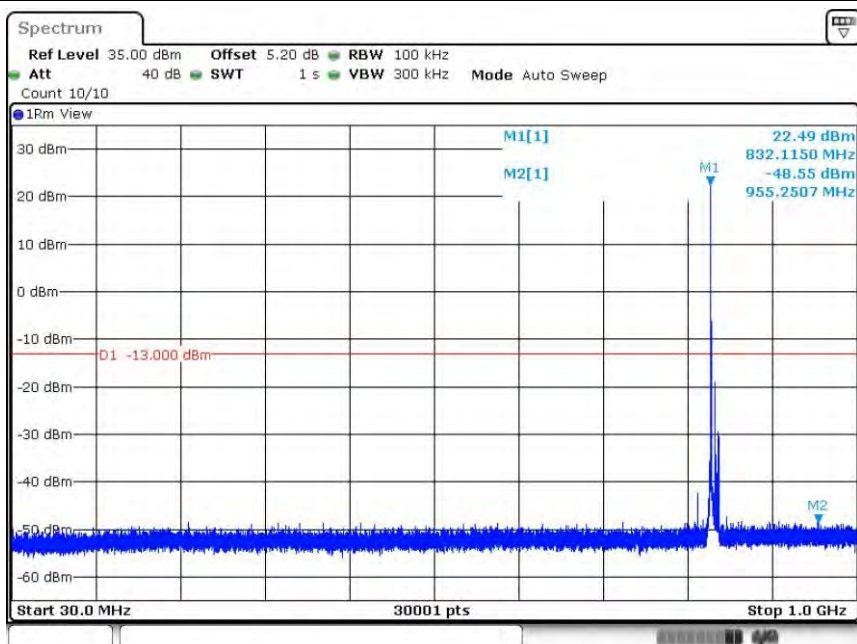
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Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 14:26:44

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



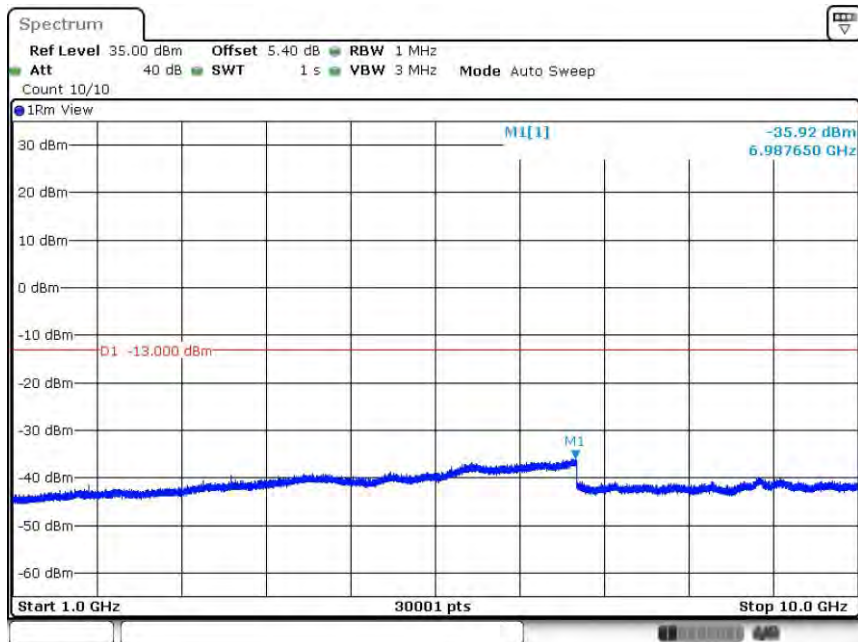
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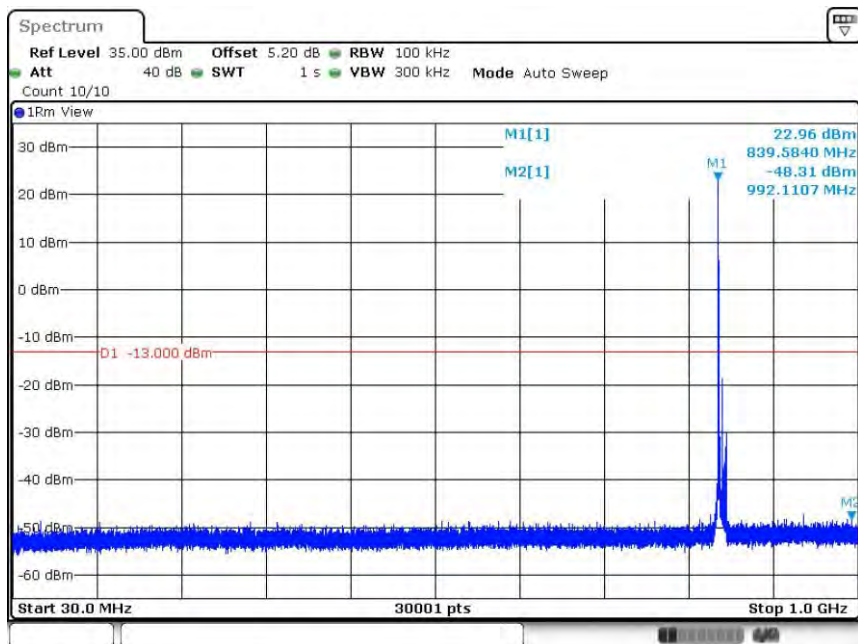
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Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 14:28:06

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



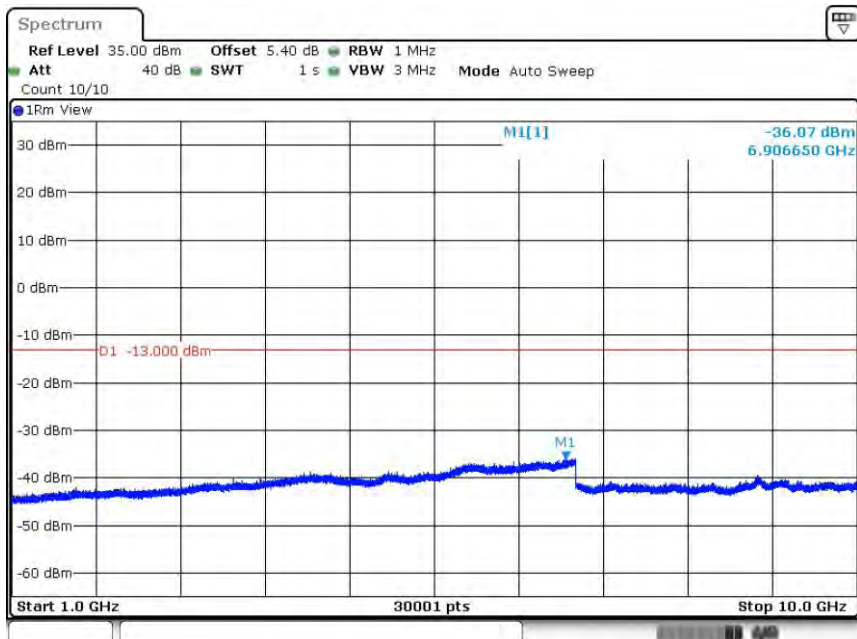
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Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 14:29:28



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7. Field Strength of Spurious Radiation

7.1. Test Band = _5_ TM1

7.1.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1325	37.40	-51.86	-13.00	38.86	Horizontal
2	2473.8737	40.06	-47.20	-13.00	34.20	Horizontal
3	3298.5649	74.52	-44.42	-13.00	31.42	Horizontal
4	4122.8561	52.03	-64.27	-13.00	51.27	Horizontal
5	5879.9440	49.03	-60.46	-13.00	47.46	Horizontal
6	8398.6699	47.63	-54.63	-13.00	41.63	Horizontal



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7.2. Test Band = _5_ TM1
7.2.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.2325	29.39	-59.87	-13.00	46.87	Vertical
2	2473.7737	33.42	-53.84	-13.00	40.84	Vertical
3	3298.2149	67.83	-51.11	-13.00	38.11	Vertical
4	4123.2062	51.87	-64.43	-13.00	51.43	Vertical
5	5413.0207	48.78	-62.02	-13.00	49.02	Vertical
6	7939.7970	47.81	-55.34	-13.00	42.34	Vertical



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7.3. Test Band = _5_ TM1

7.3.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.2332	42.14	-46.99	-13.00	33.99	Horizontal
2	2496.2748	37.85	-49.56	-13.00	36.56	Horizontal
3	3328.3164	79.01	-39.61	-13.00	26.61	Horizontal
4	4917.7459	50.03	-63.00	-13.00	50.00	Horizontal
5	6199.8600	48.52	-59.97	-13.00	46.97	Horizontal
6	9000.3500	46.89	-53.62	-13.00	40.62	Horizontal



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7.4. Test Band = _5_ TM1

7.4.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1332	34.50	-54.63	-13.00	41.63	Vertical
2	2496.2748	32.75	-54.66	-13.00	41.66	Vertical
3	3328.3164	72.84	-45.78	-13.00	32.78	Vertical
4	5227.5114	48.61	-63.03	-13.00	50.03	Vertical
5	7365.7683	47.98	-56.80	-13.00	43.80	Vertical
6	9585.9293	45.85	-53.55	-13.00	40.55	Vertical



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7.5. Test Band = _5_ TM1

7.5.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.0340	39.42	-49.58	-13.00	36.58	Horizontal
2	2518.7759	41.48	-45.77	-13.00	32.77	Horizontal
3	3358.4179	76.47	-41.97	-13.00	28.97	Horizontal
4	4723.8362	49.60	-64.00	-13.00	51.00	Horizontal
5	6736.0868	47.90	-58.43	-13.00	45.43	Horizontal
6	9256.9128	45.64	-54.19	-13.00	41.19	Horizontal



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7.6. Test Band = _5_ TM1

7.6.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1151.4076	21.54	-68.31	-13.00	55.31	Vertical
2	1679.0340	31.29	-57.71	-13.00	44.71	Vertical
3	2518.8759	34.52	-52.73	-13.00	39.73	Vertical
4	3358.4179	69.74	-48.70	-13.00	35.70	Vertical
5	5243.6122	48.60	-63.04	-13.00	50.04	Vertical
6	8550.5775	46.06	-55.33	-13.00	42.33	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.





8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-1.20	-0.001422	±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	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.70	-0.002032	±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	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.20	-0.000239	±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	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	1.00	0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.60	0.000711	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-0.50	-0.000603	±2.5	PASS



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Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	0.10	0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.90	0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.80	0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-1.90	-0.002251	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-2.00	-0.002370	±2.5	PASS

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