



Appendix B

E-UTRA Band 5



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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	23.15	21.50	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.28	21.63	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.14	21.49	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.26	21.61	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.31	21.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.27	21.62	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.28	20.63	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.16	21.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.17	21.52	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.30	21.65	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.27	21.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.34	21.69	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.27	21.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.27	20.62	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.12	21.47	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.11	21.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.26	21.61	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.24	21.59	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.29	21.64	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.23	21.58	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.24	20.59	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.27	20.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.46	20.81	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.41	20.76	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.40	20.75	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.23	20.58	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.32	20.67	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.38	19.73	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.39	20.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.54	20.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.37	20.72	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.36	20.71	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.42	20.77	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.37	20.72	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.33	19.68	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.51	20.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.30	20.65	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.38	20.73	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	22.36	20.71	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.39	20.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.26	20.61	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.30	19.65	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.19	21.54	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.21	21.56	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.21	21.56	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.23	20.58	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.27	20.62	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.23	20.58	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.24	20.59	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.22	21.57	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.19	21.54	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.23	21.58	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.24	20.59	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.25	20.60	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.28	20.63	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.24	20.59	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.17	21.52	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.18	21.53	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.16	21.51	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.22	20.57	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.20	20.55	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.23	20.58	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.21	20.56	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.47	20.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.43	20.78	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.34	20.69	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.33	19.68	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.34	19.69	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.32	19.67	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.23	19.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.50	20.85	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.51	20.86	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.40	20.75	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.28	19.63	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.32	19.67	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.33	19.68	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.21	19.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.46	20.81	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.41	20.76	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.40	20.75	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.24	19.59	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.29	19.64	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.25	19.60	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.22	19.57	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.10	21.45	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#12	23.39	21.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.12	21.47	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.22	20.57	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.32	20.67	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.31	20.66	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.28	20.63	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.12	21.47	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.08	21.43	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.40	21.75	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.27	20.62	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.31	20.66	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.23	20.58	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.25	20.60	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.05	21.40	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.07	21.42	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.38	21.73	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.23	20.58	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.29	20.64	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.16	20.51	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.22	20.57	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.37	20.72	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.53	20.88	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.40	20.75	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.31	19.66	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.27	19.62	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.30	19.65	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.26	19.61	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.39	20.74	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.55	20.90	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.29	20.64	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	23.22	21.57	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.29	19.64	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.31	19.66	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.25	19.60	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.60	20.95	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.27	20.62	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.38	20.73	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.24	19.59	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.29	19.64	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.17	19.52	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.19	19.54	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.23	21.58	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.34	21.69	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.21	21.56	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.32	20.67	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.35	20.70	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.33	20.68	38.45	PASS



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Band5	10MHz	QPSK	20450	50RB#0	22.36	20.71	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.24	21.59	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.18	21.53	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.36	21.71	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.33	20.68	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.34	20.69	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.31	20.66	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.34	20.69	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.28	21.63	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.21	21.56	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.15	21.50	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.32	20.67	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.26	20.61	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.31	20.66	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.30	20.65	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.41	20.76	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.42	20.77	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.50	20.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.32	19.67	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.33	19.68	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.32	19.67	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.35	19.70	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.45	20.80	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.52	20.87	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.64	20.99	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.32	19.67	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.31	19.66	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.32	19.67	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.34	19.69	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.44	20.79	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.40	20.75	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.38	20.73	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.32	19.67	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.28	19.63	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.26	19.61	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.30	19.65	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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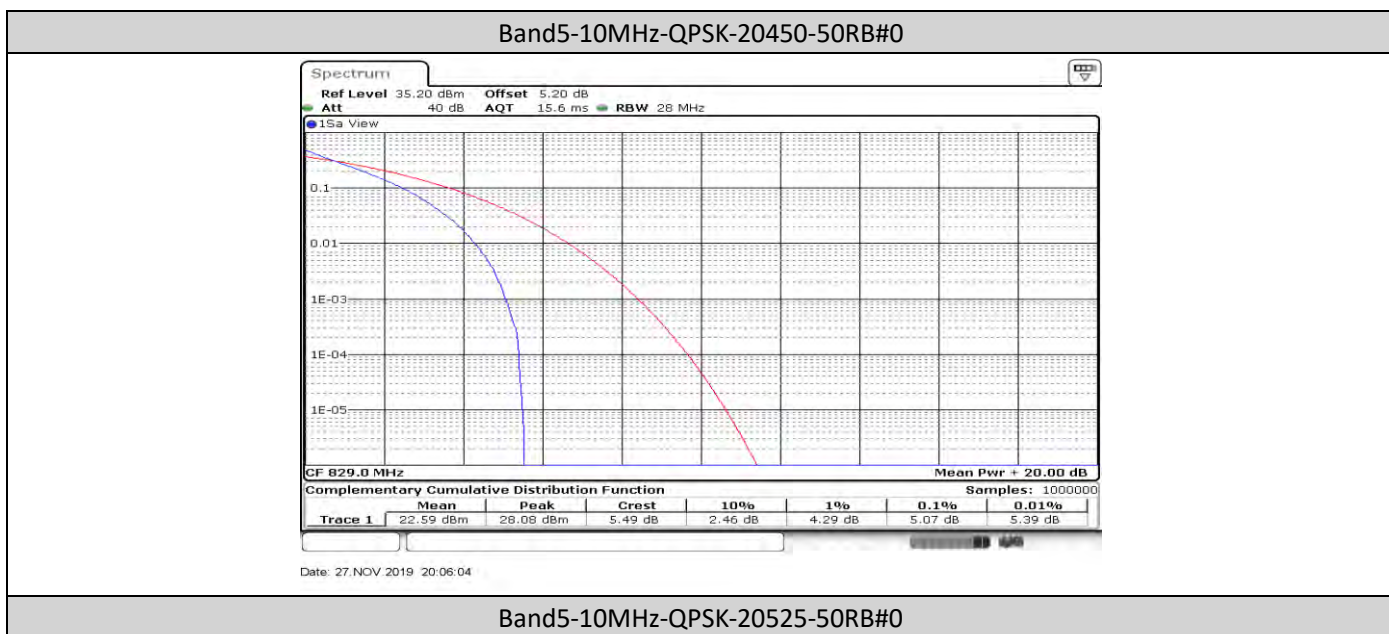


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.07	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.25	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.88	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.20	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.97	13	PASS

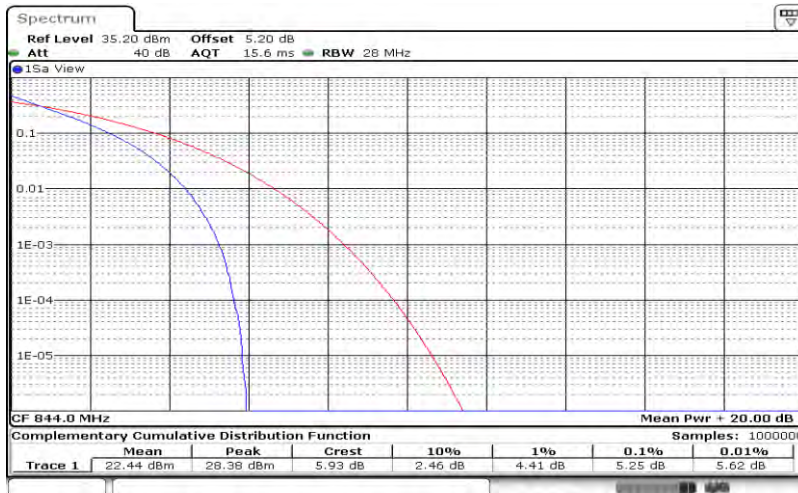
2.2. Test Plots





Date: 27.NOV.2019 20:06:26

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

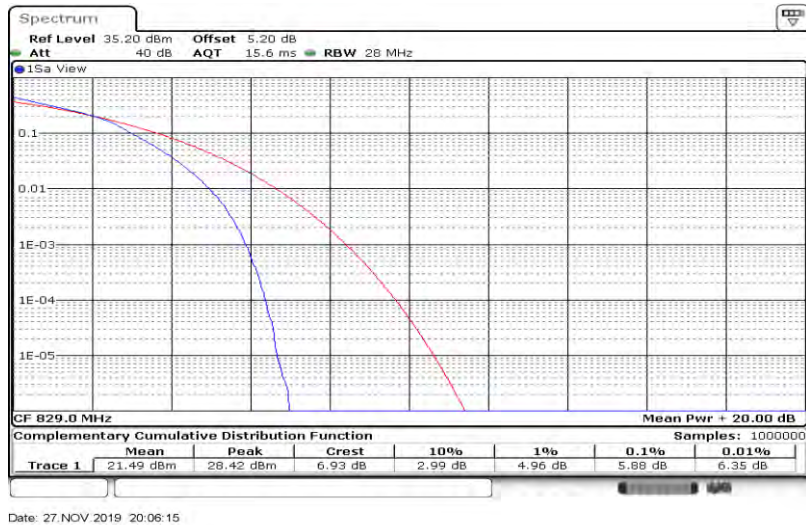


Date: 27.NOV.2019 20:06:49

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



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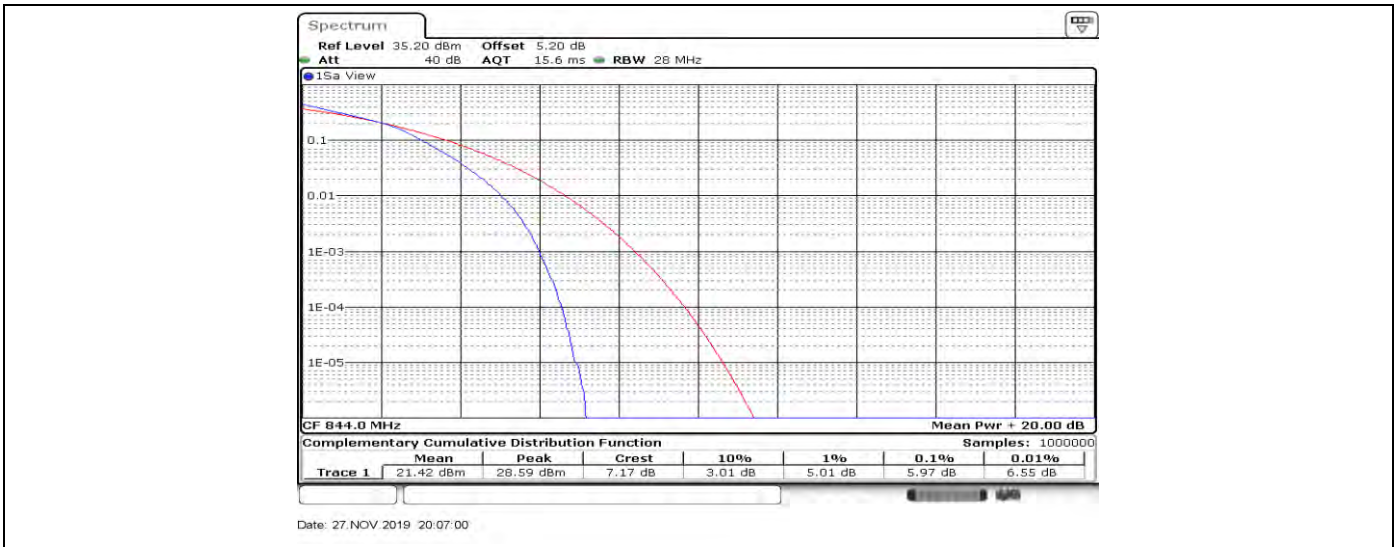
Band5-10MHz-16QAM-20525-50RB#0



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



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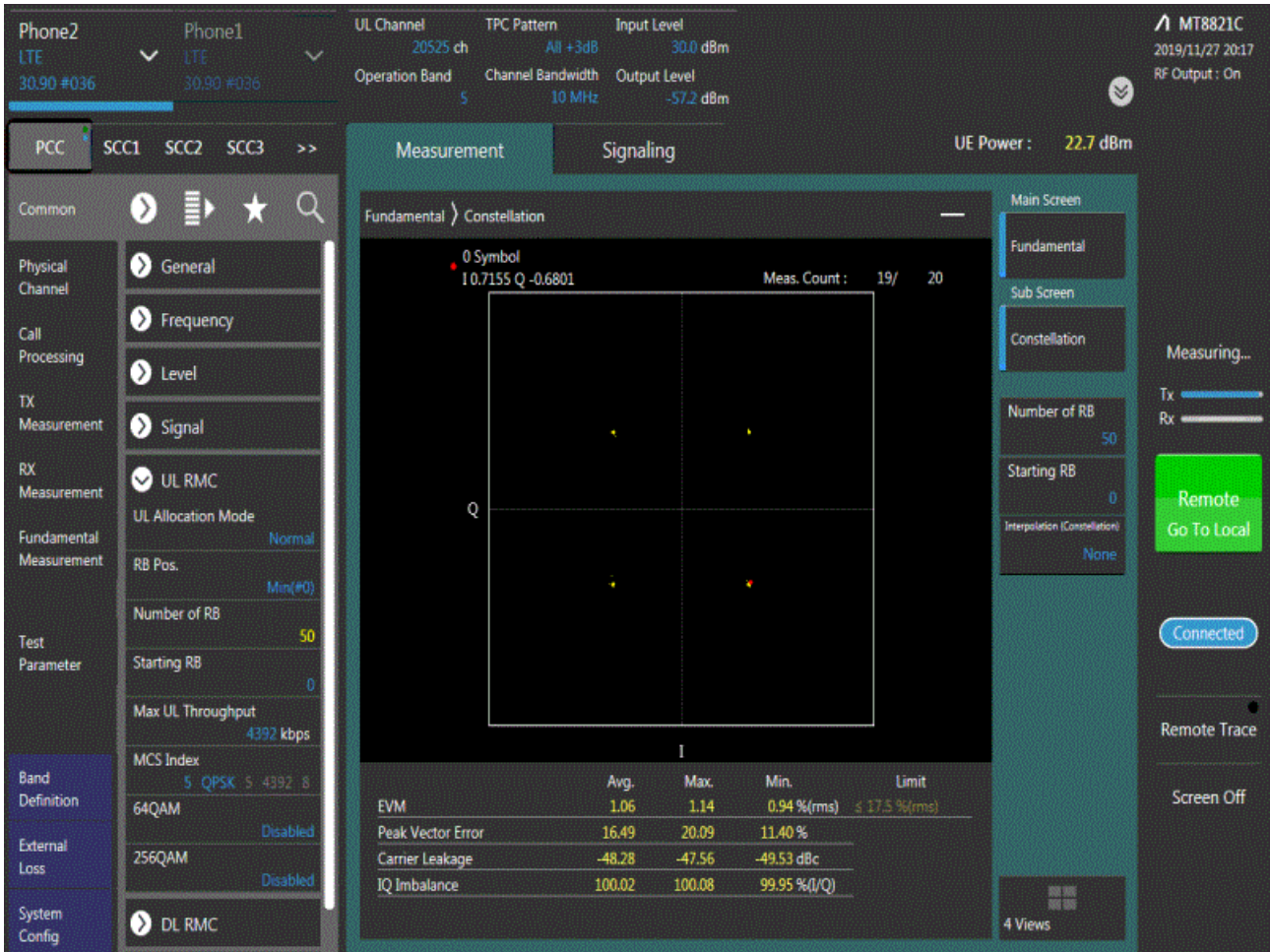


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH

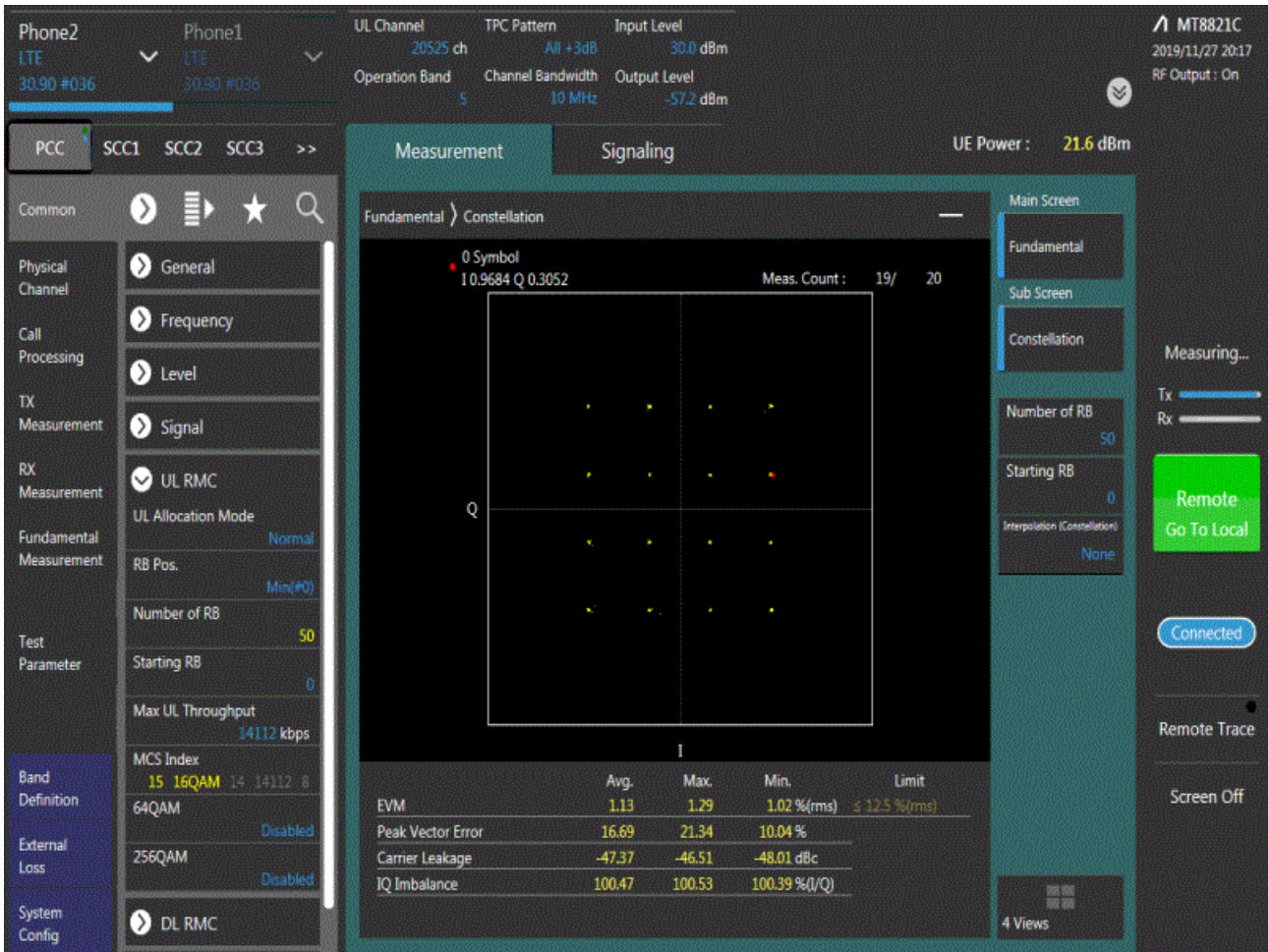


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3.2. Test Mode = LTE /TM2 10MHz

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	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.281	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.287	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.281	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.898	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.892	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.886	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.673	2.868	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.880	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.667	2.880	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.486	5.030	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.840	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.970	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	4.890	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.910	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.991	9.640	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.971	9.660	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.971	9.560	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.011	9.640	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.991	9.560	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.951	9.560	PASS



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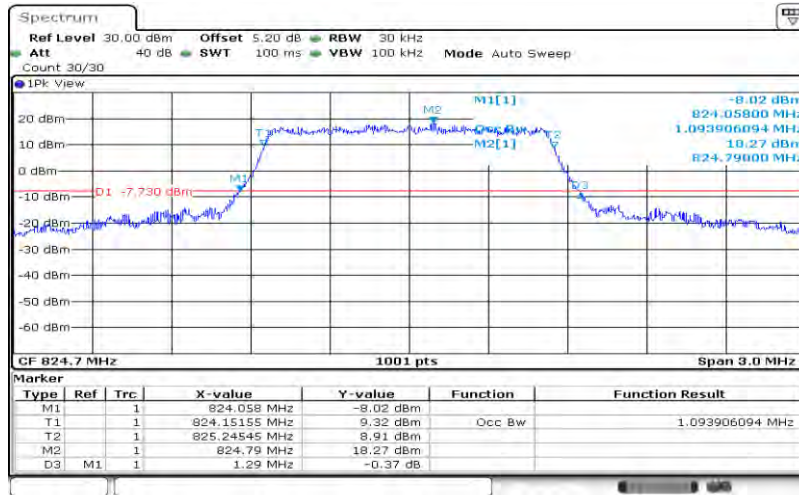
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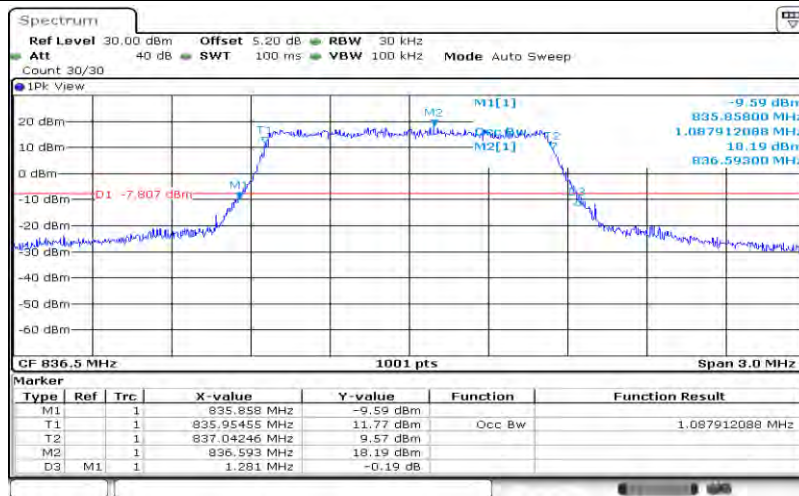
4.2. Test Plots

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



Date: 27.NOV.2019 19:39:44

Band5-1.4MHz-QPSK-20525-6RB#0-1.088



Date: 27.NOV.2019 19:40:09

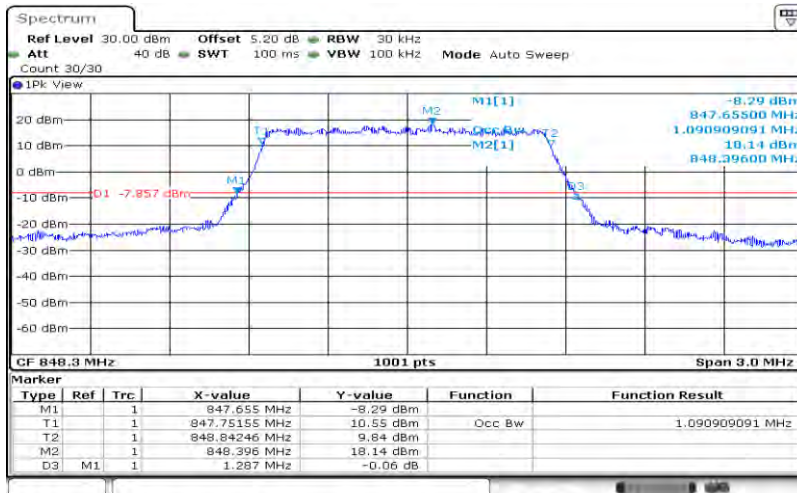
Band5-1.4MHz-QPSK-20643-6RB#0-1.091



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Date: 27.NOV.2019 19:40:35

Band5-1.4MHz-16QAM-20407-6RB#0-1.091

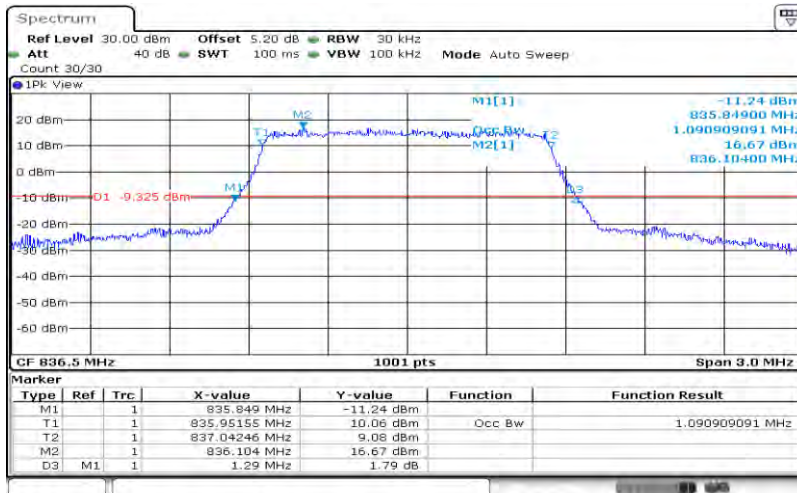


Date: 27.NOV.2019 19:39:56

Band5-1.4MHz-16QAM-20525-6RB#0-1.091

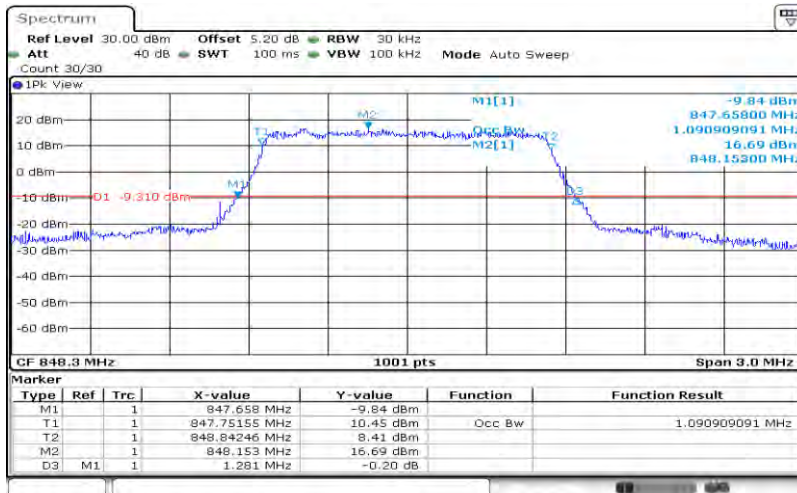


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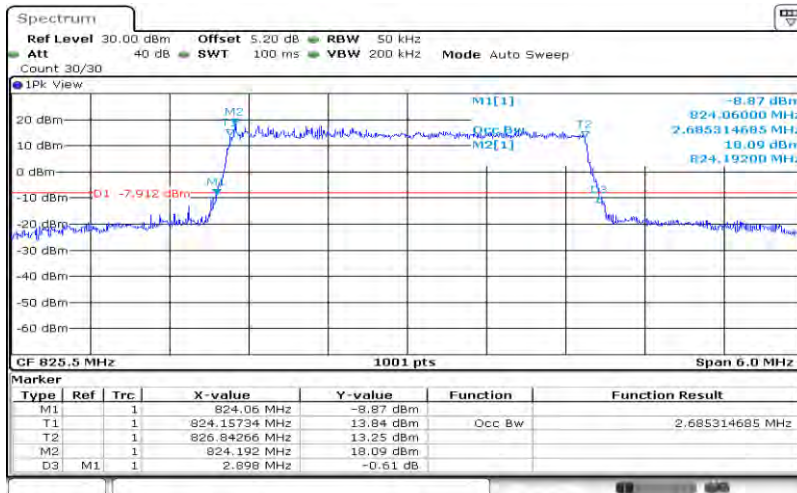


Date: 27.NOV.2019 19:40:47

Band5-3MHz-QPSK-20415-15RB#0-2.685

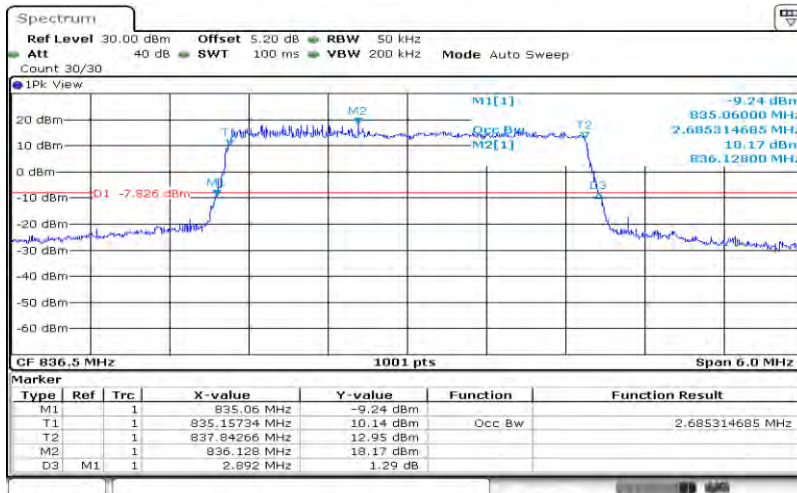


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Date: 27.NOV.2019 19:41:05

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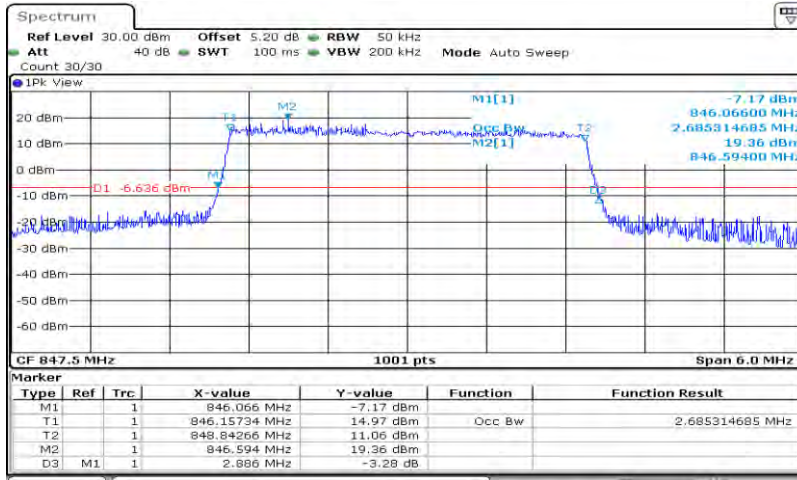


Date: 27.NOV.2019 19:41:30

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

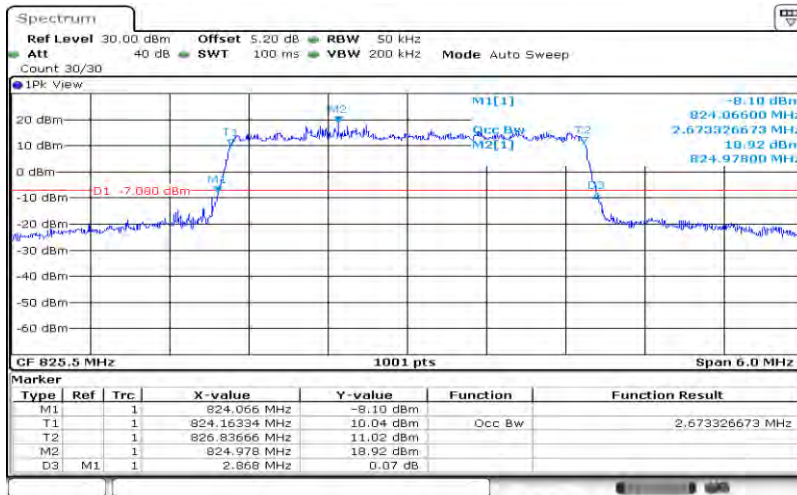


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Band5-3MHz-16QAM-20415-15RB#0-2.673

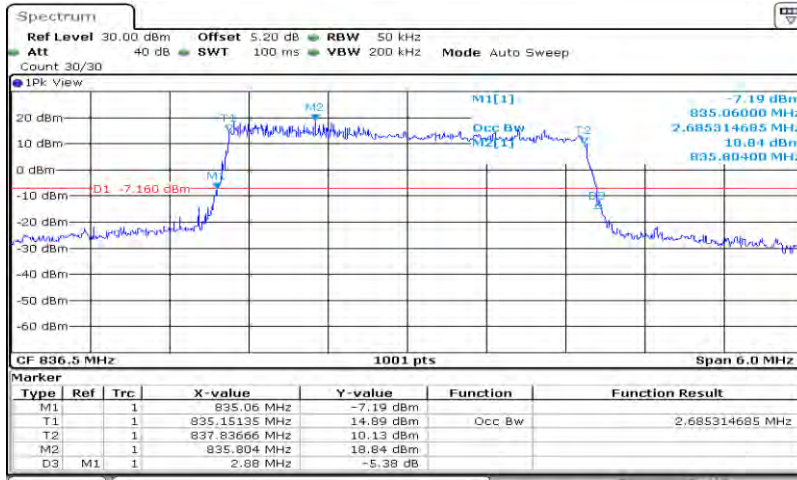


Date: 27.NOV.2019 19:41:17

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

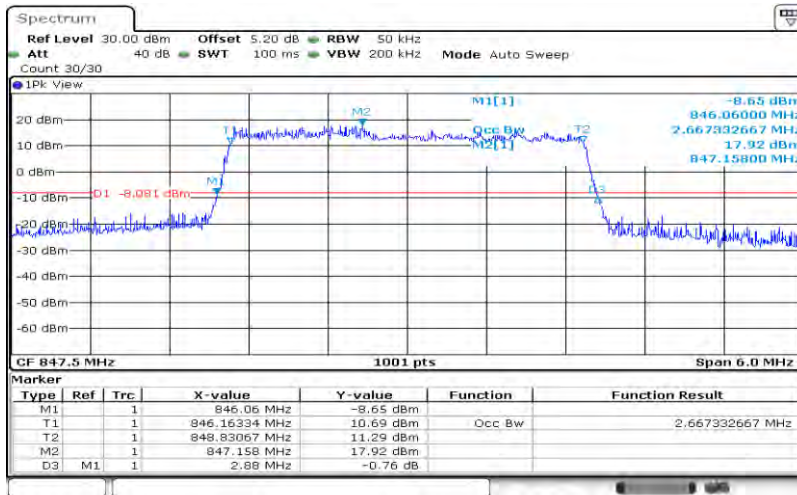


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Date: 27.NOV.2019 19:41:43

Band5-3MHz-16QAM-20635-15RB#0-2.667

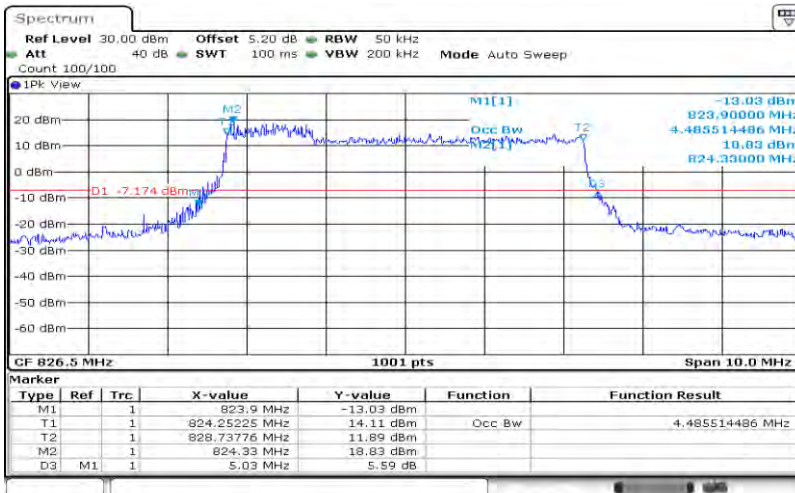


Date: 27.NOV.2019 19:42:09

Band5-5MHz-QPSK-20425-25RB#0-4.486

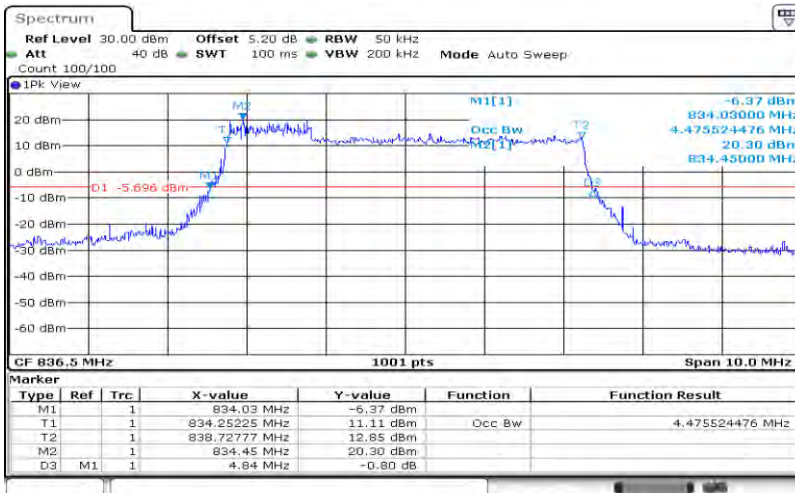


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Band5-5MHz-QPSK-20525-25RB#0-4.476



Date: 27.NOV.2019 19:43:13

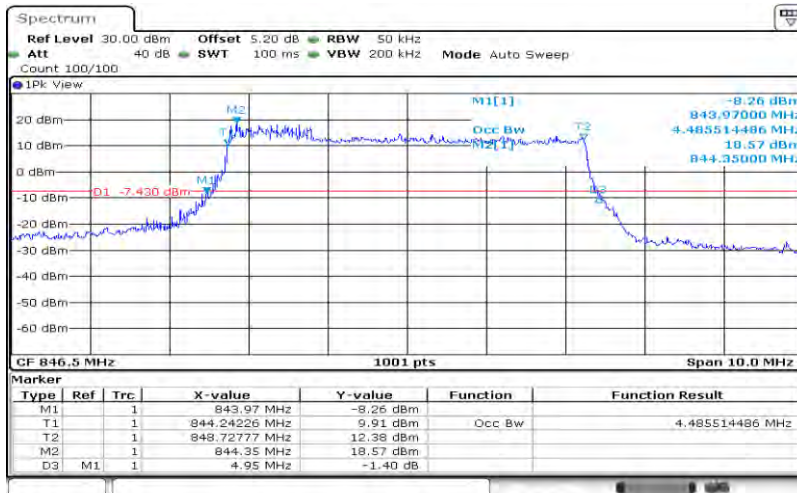
Band5-5MHz-QPSK-20625-25RB#0-4.486



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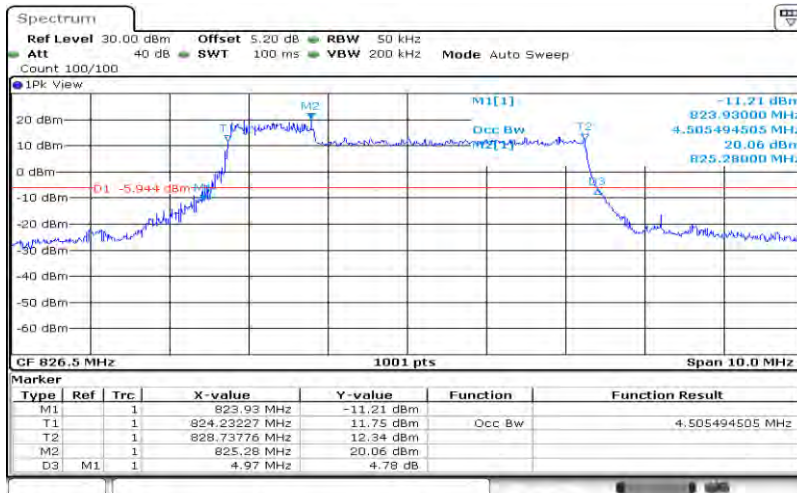
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Date: 27.NOV.2019 19:43:52

Band5-5MHz-16QAM-20425-25RB#0-4.505

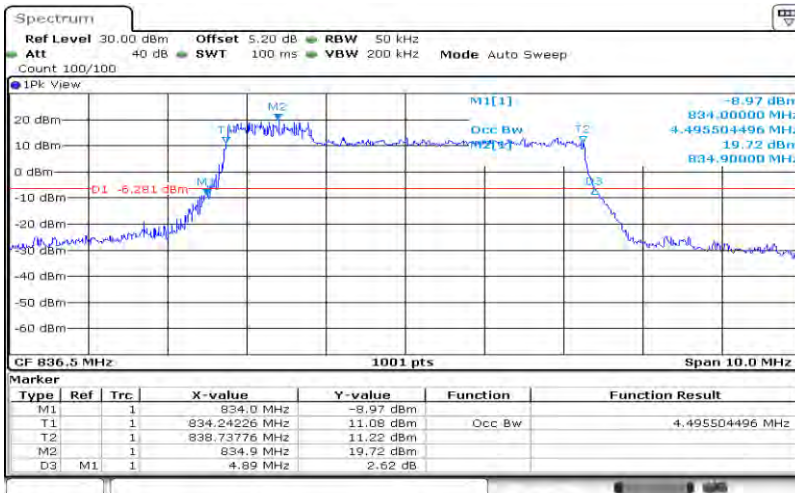


Date: 27.NOV.2019 19:42:53

Band5-5MHz-16QAM-20525-25RB#0-4.496

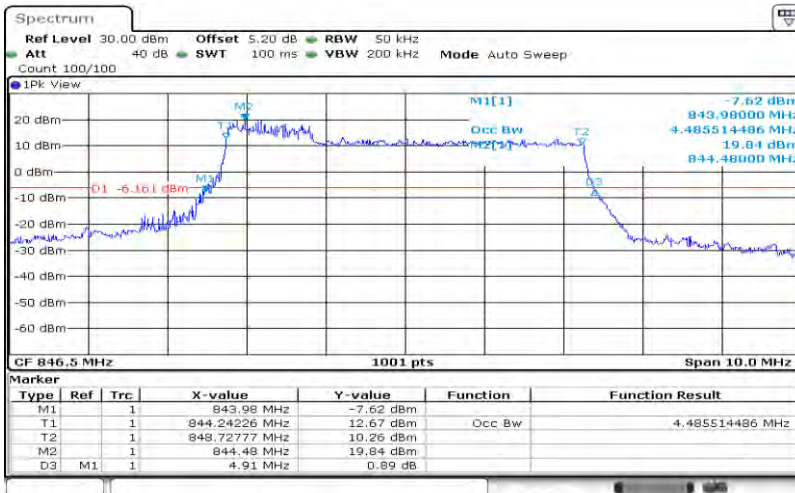


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Date: 27.NOV.2019 19:43:32

Band5-5MHz-16QAM-20625-25RB#0-4.486

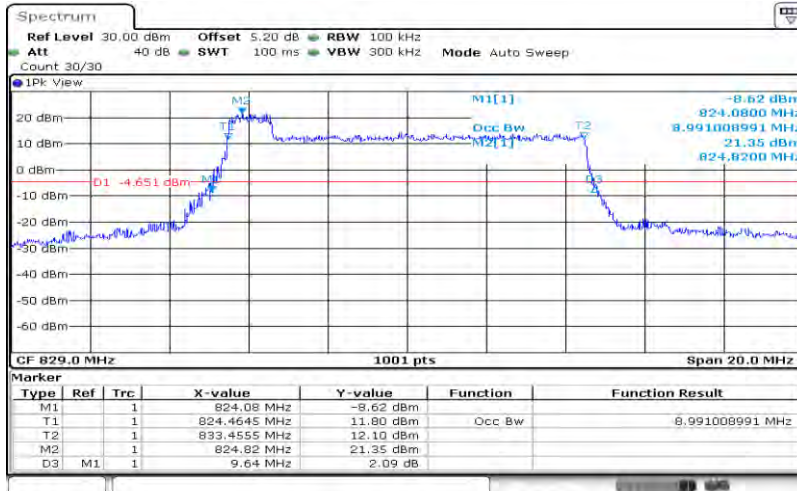


Date: 27.NOV.2019 19:44:12

Band5-10MHz-QPSK-20450-50RB#0-8.991

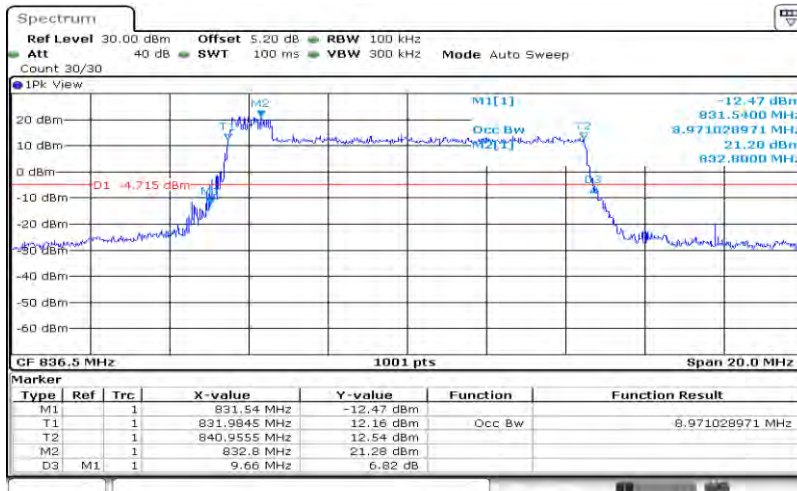


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Date: 27.NOV.2019 19:44:29

Band5-10MHz-QPSK-20525-50RB#0-8.971

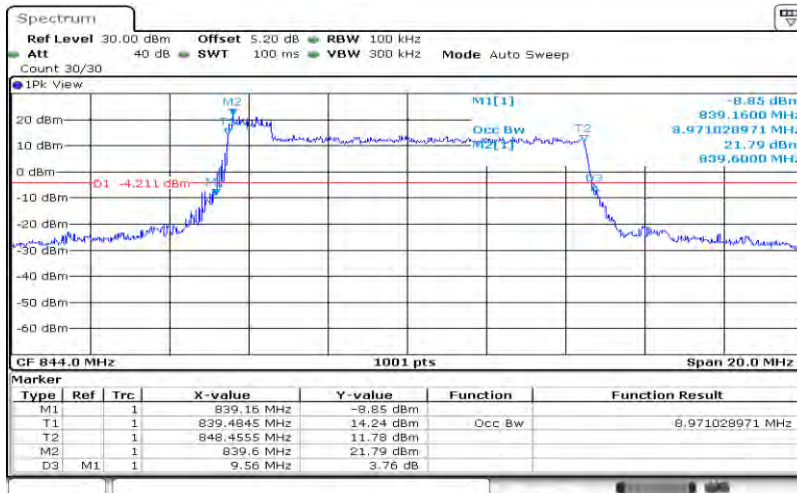


Date: 27.NOV.2019 19:44:55

Band5-10MHz-QPSK-20600-50RB#0-8.971

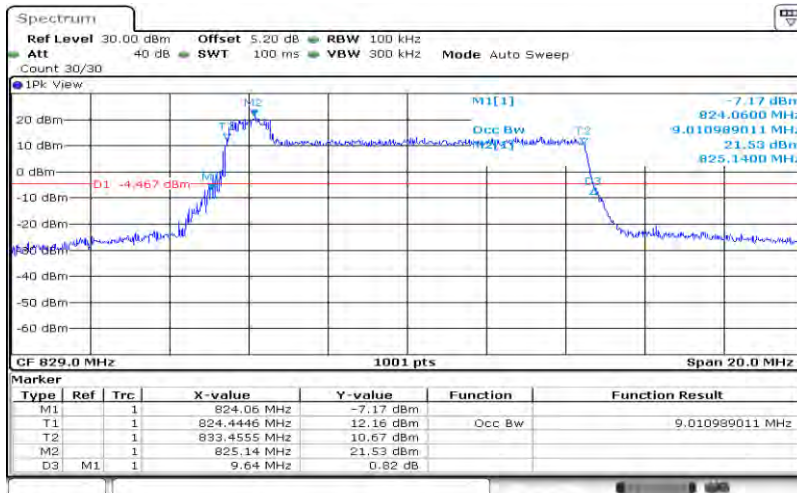


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Date: 27.NOV.2019 19:45:21

Band5-10MHz-16QAM-20450-50RB#0-9.011

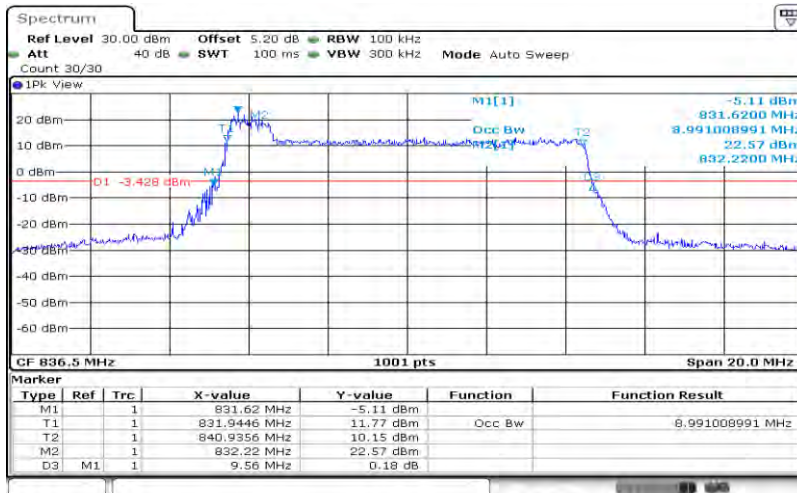


Date: 27.NOV.2019 19:44:42

Band5-10MHz-16QAM-20525-50RB#0-8.991

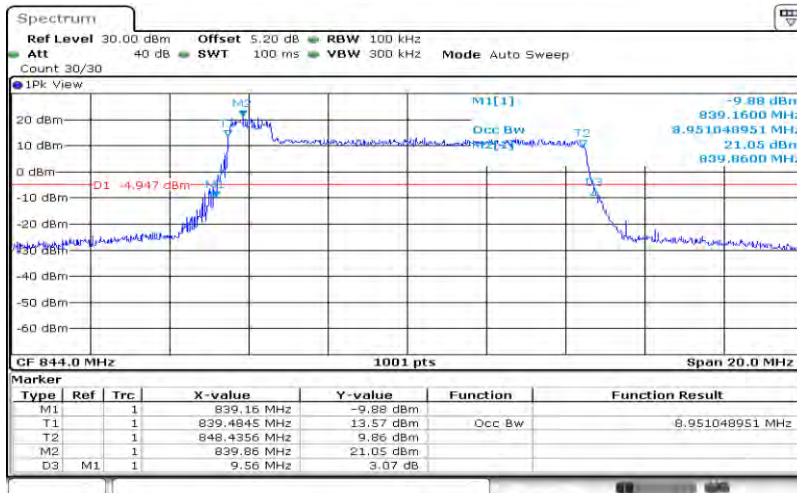


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Date: 27.NOV.2019 19:45:08

Band5-10MHz-16QAM-20600-50RB#0-8.951



Date: 27.NOV.2019 19:45:33

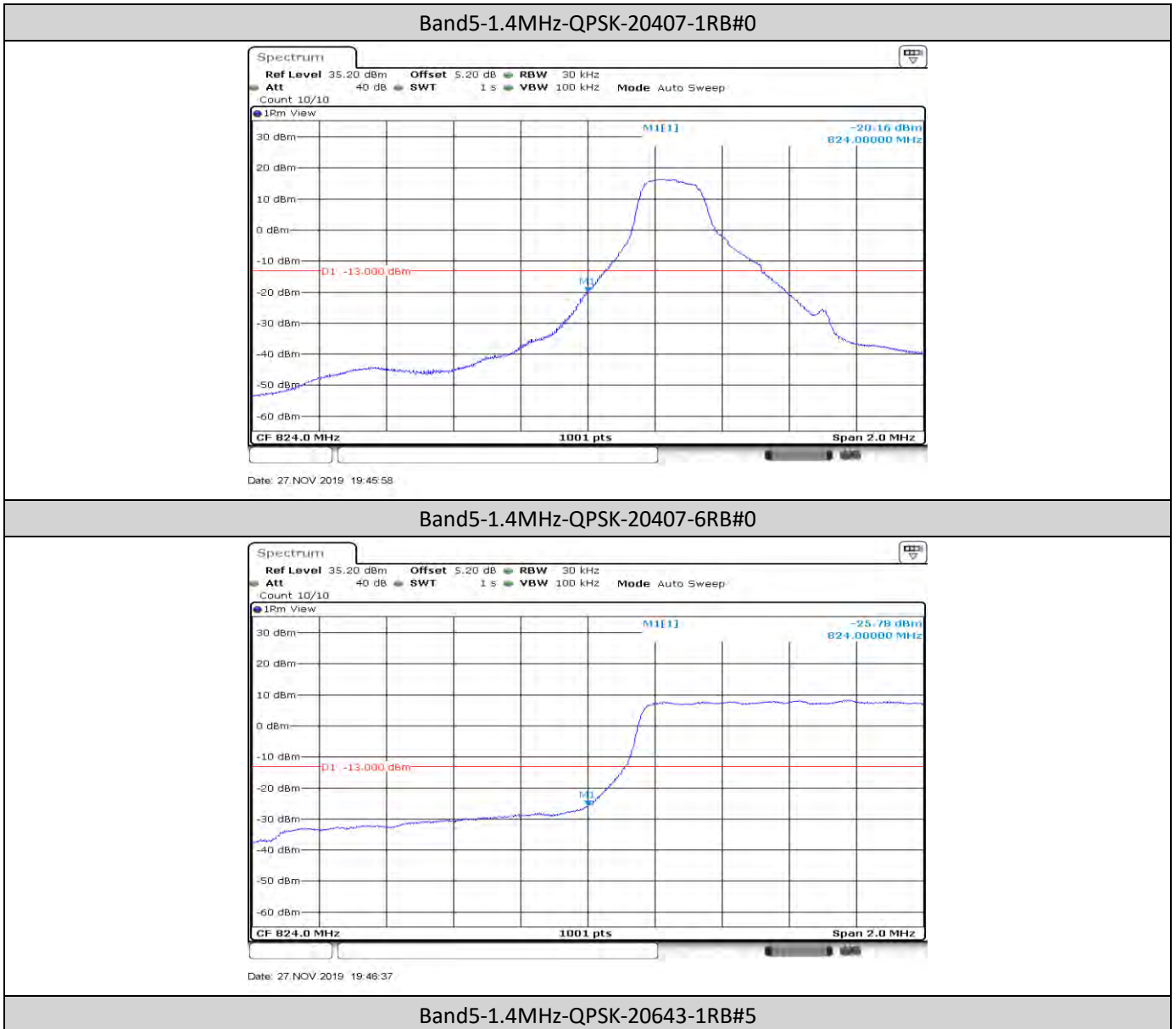


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5. Band Edge Compliance

5.1. Test Plots

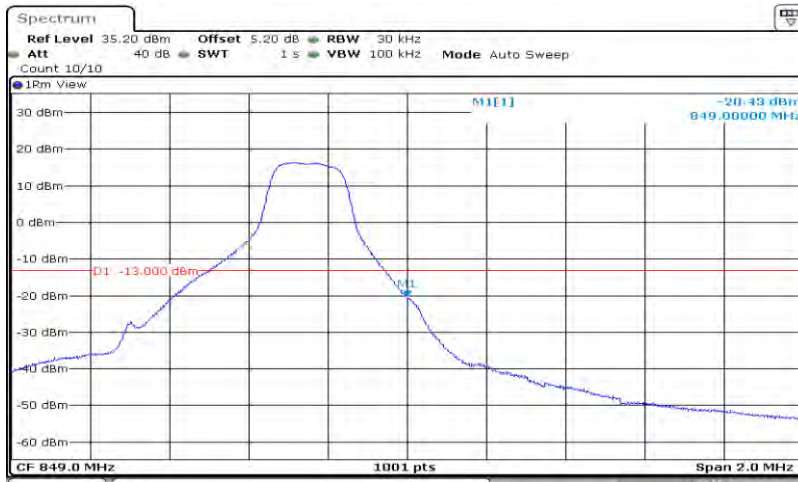


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Band5-1.4MHz-QPSK-20643-6RB#0



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



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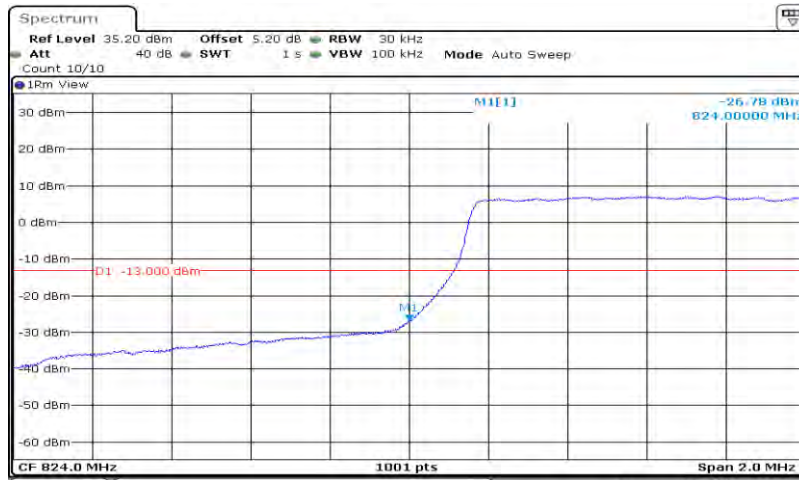
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Date: 27.NOV.2019 19:46:18

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

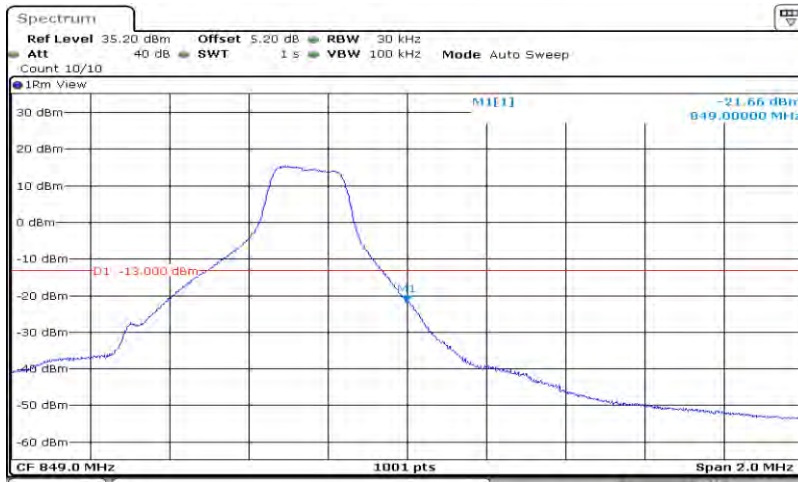


Date: 27.NOV.2019 19:46:57

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



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Date: 27.NOV.2019 19:47:40

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



Date: 27.NOV.2019 19:48:19

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



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Date: 27.NOV.2019 19:48:43

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

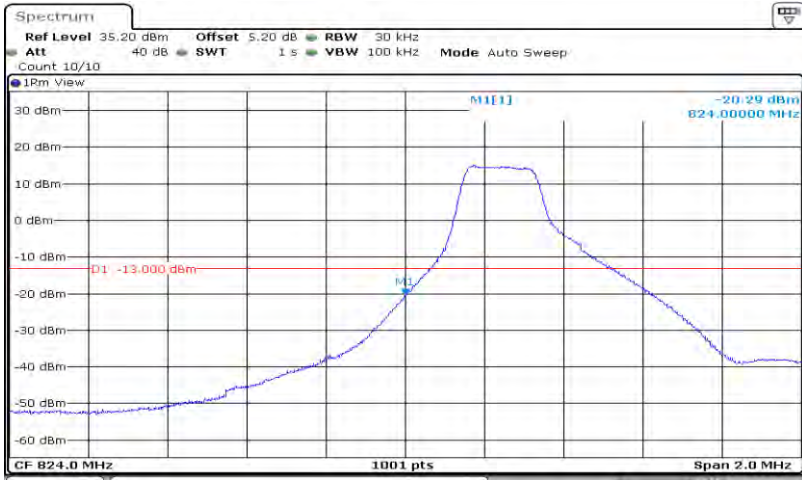


Date: 27.NOV.2019 19:49:22

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



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Date: 27.NOV.2019 19:49:03

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

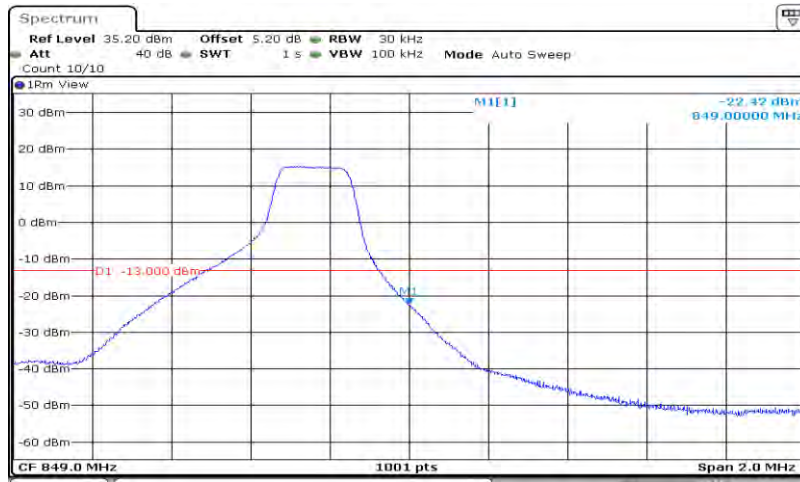


Date: 27.NOV.2019 19:49:42

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



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Date: 27.NOV.2019 19:50:25

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



Date: 27.NOV.2019 19:51:04

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



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Date: 27.NOV 2019 19:51:28

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

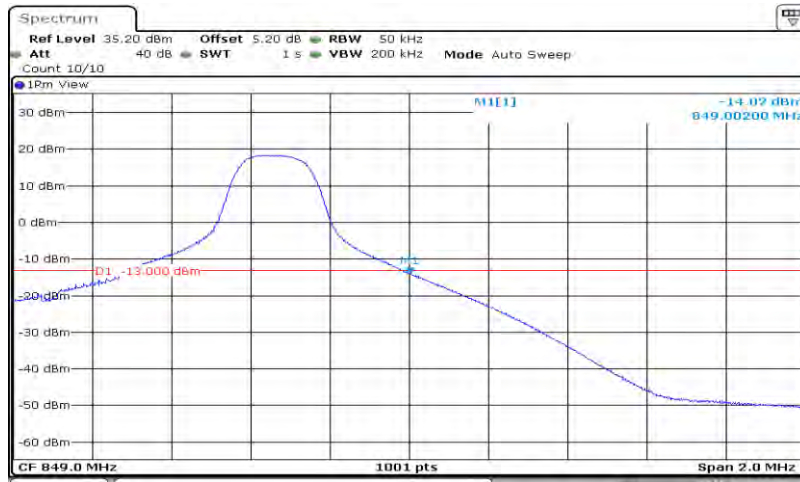


Date: 27.NOV 2019 19:52:07

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



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Date: 27.NOV.2019 19:52:50

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



Date: 27.NOV.2019 19:53:29

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



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Date: 27.NOV.2019 19:51:47

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



Date: 27.NOV.2019 19:52:26

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



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Date: 27.NOV.2019 19:53:09

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



Date: 27.NOV.2019 19:53:48

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



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Date: 27.NOV.2019 19:54:12

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



Date: 27.NOV.2019 19:54:51

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



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Date: 27.NOV.2019 19:55:34

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



Date: 27.NOV.2019 19:56:13

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



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Date: 27.NOV.2019 19:54:32

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



Date: 27.NOV.2019 19:55:11

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



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Date: 27.NOV.2019 19:55:54

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



Date: 27.NOV.2019 19:56:33



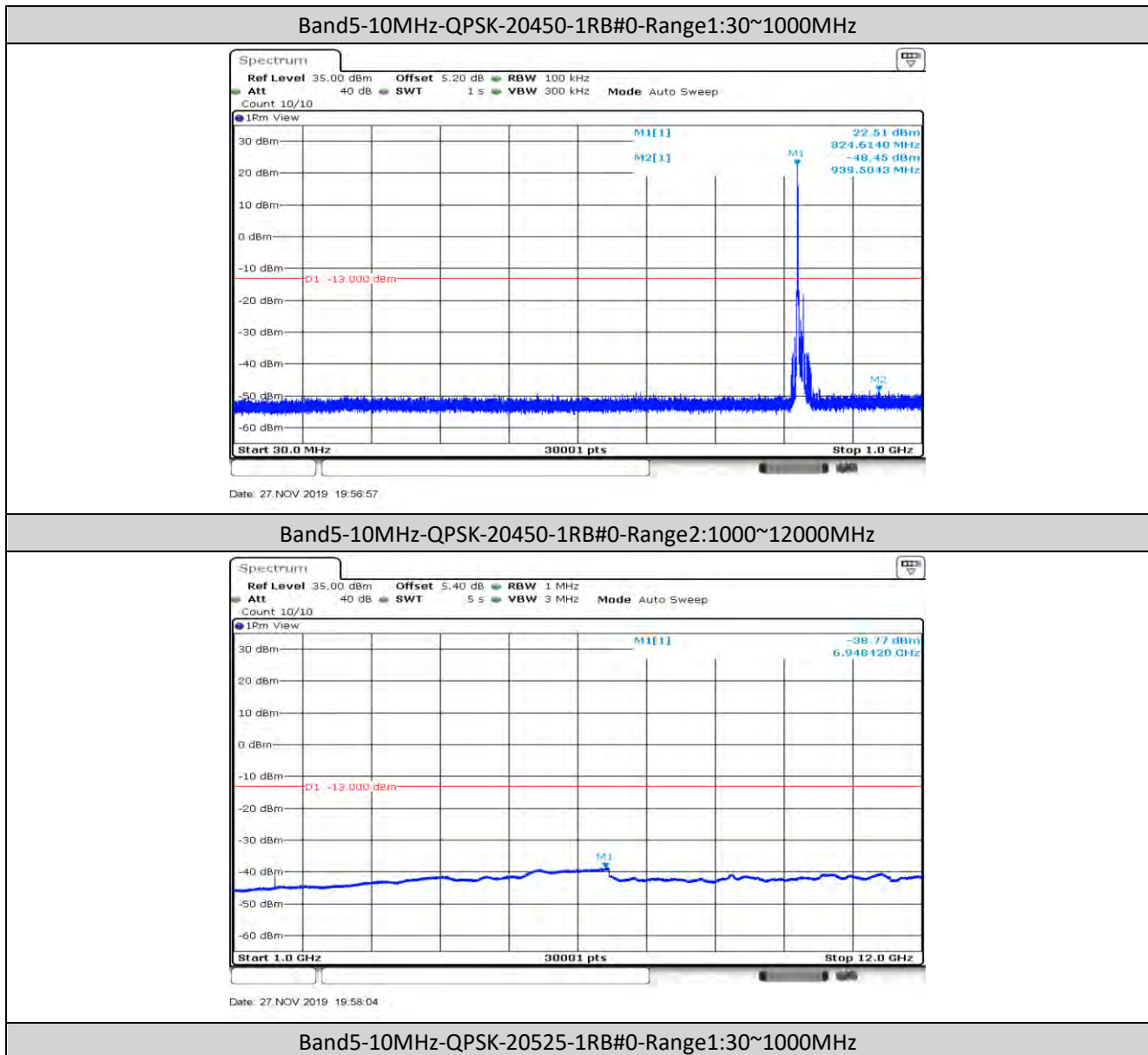
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6. Spurious Emission at Antenna Terminal

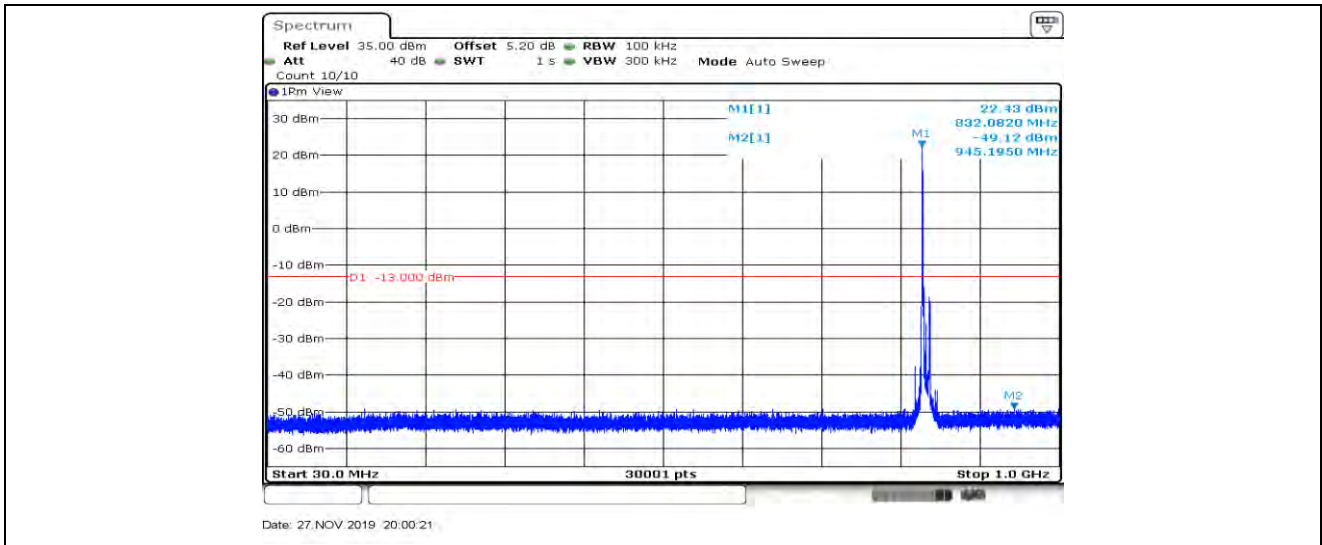
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

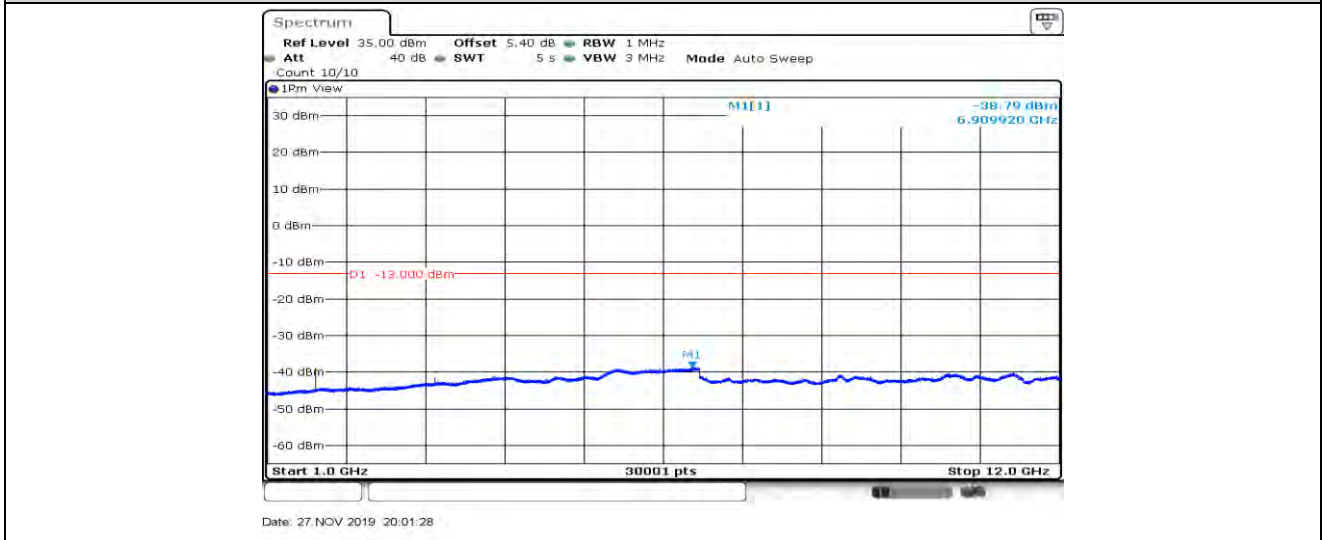
6.1. Test Plots



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



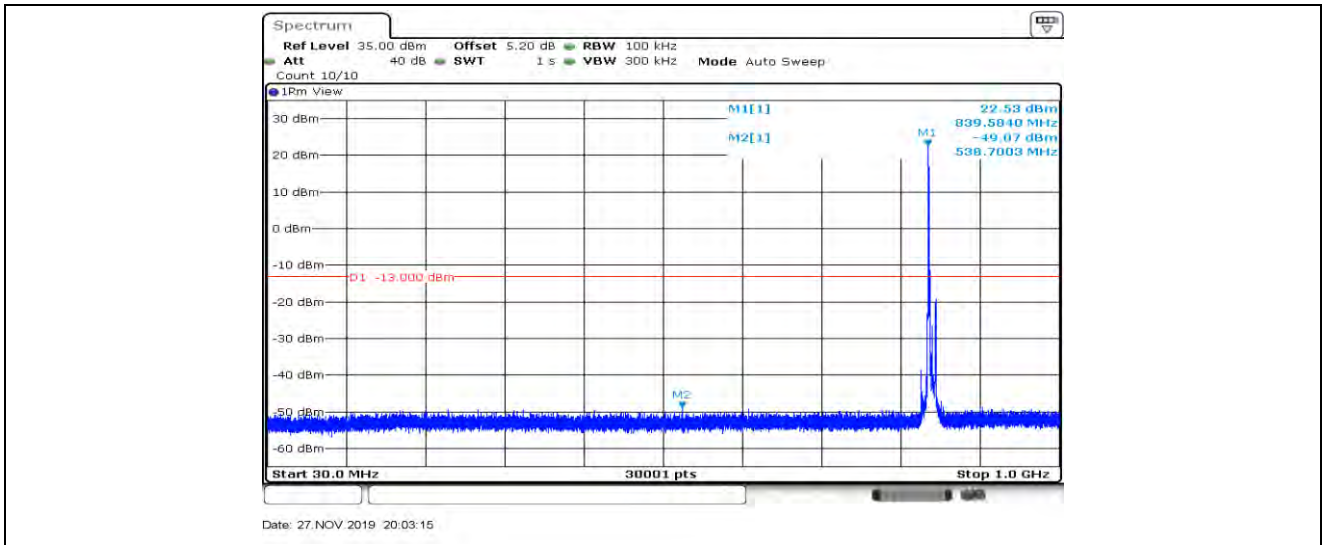
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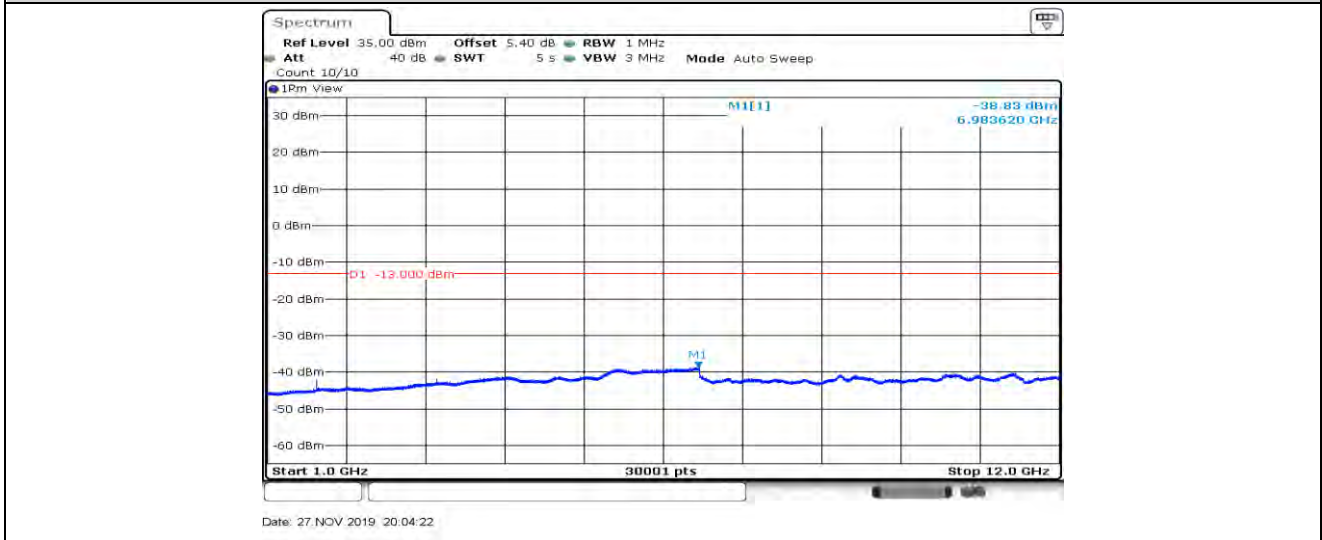
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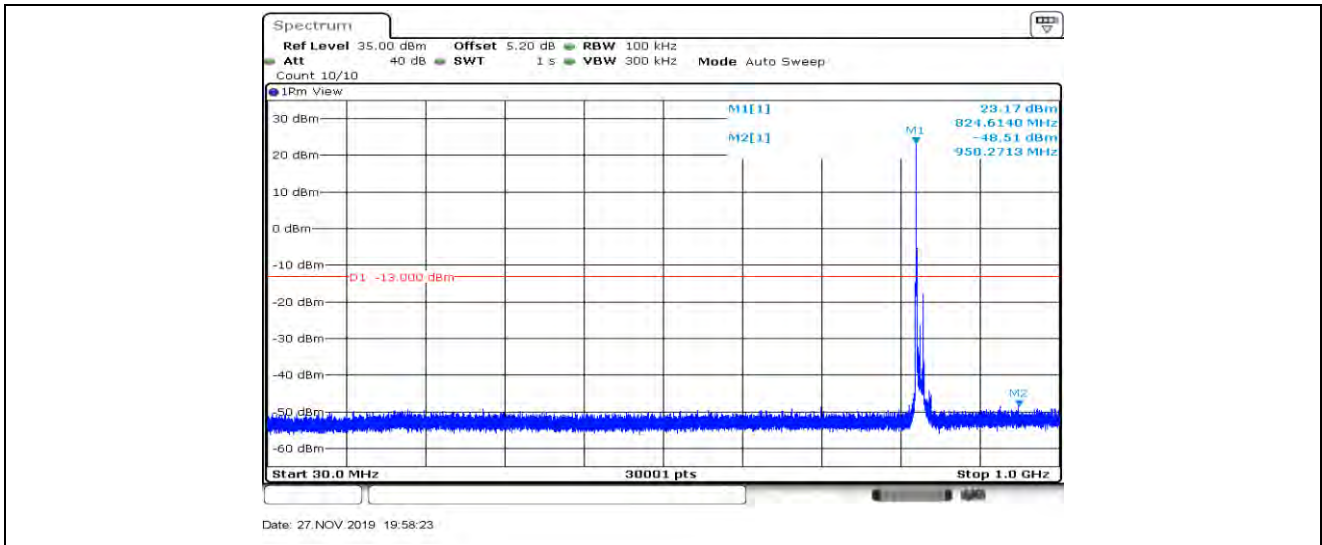
Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz



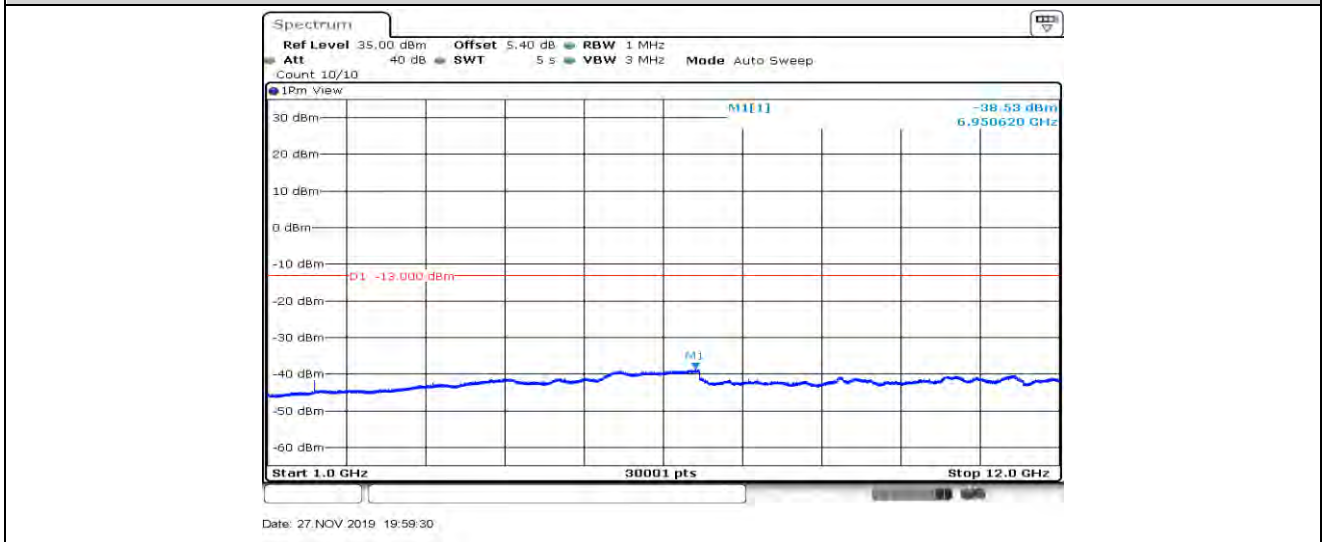
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



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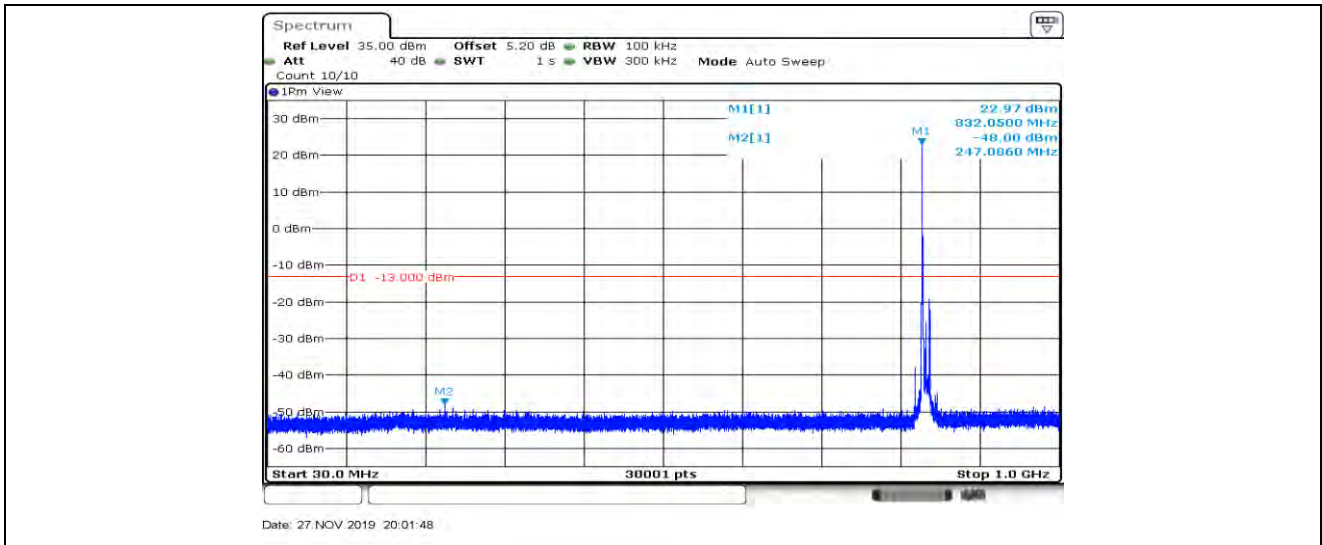
Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz



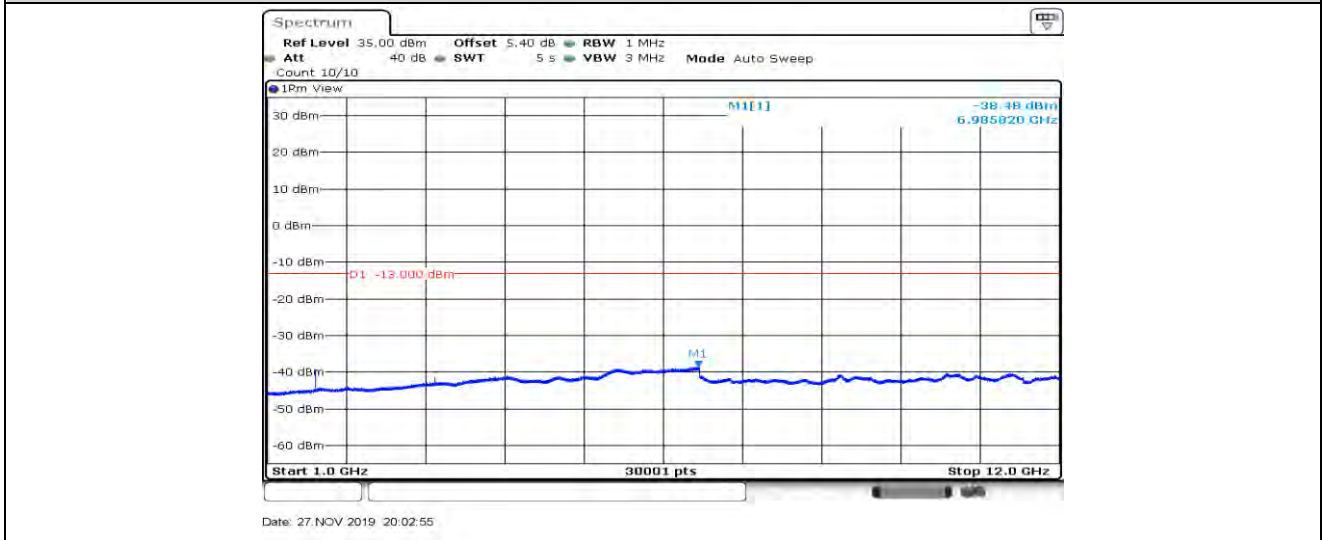
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



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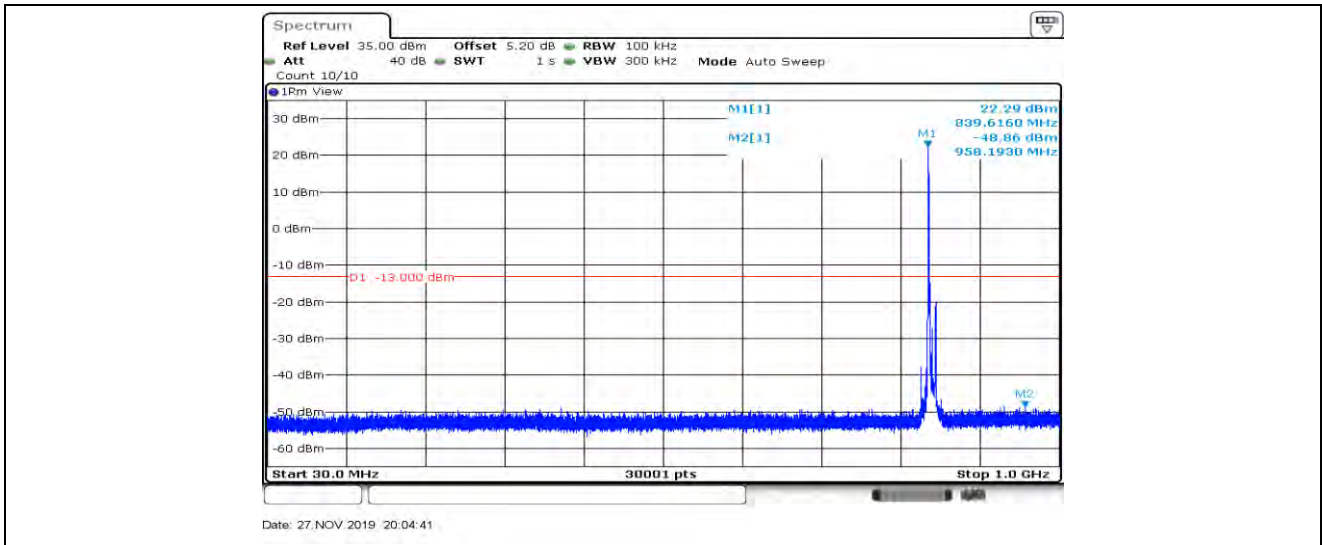
Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



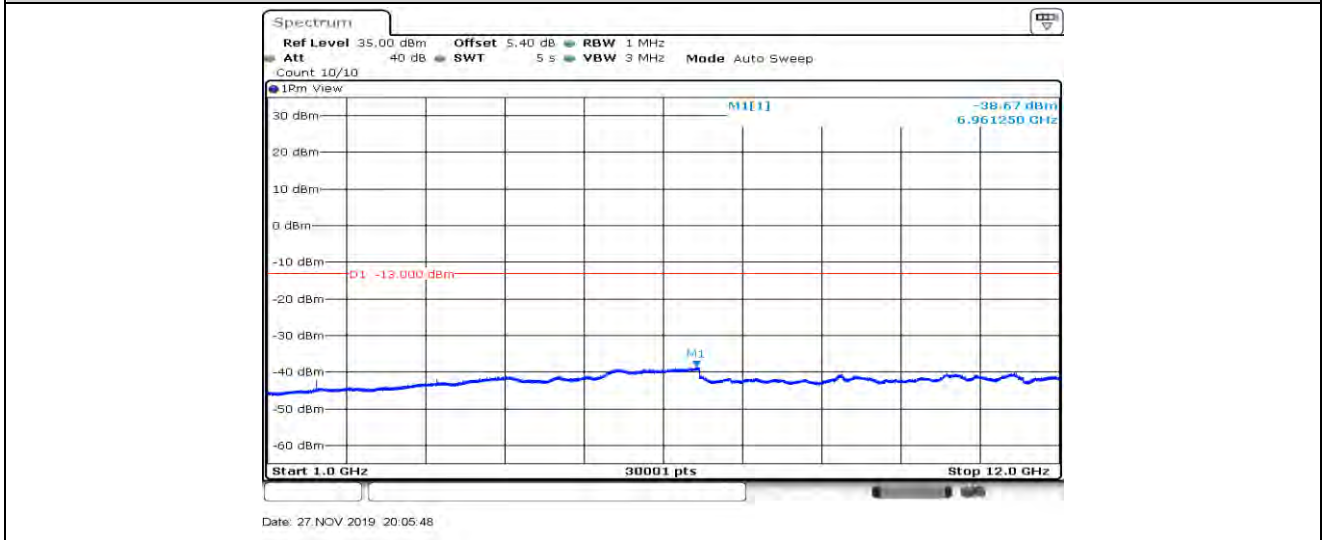
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 (Main Ant)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7380	-61.95	-13.00	48.95	Vertical
1649.3299	-48.30	-13.00	35.30	Vertical
1745.7492	-55.23	-13.00	42.23	Vertical
3298.2099	-53.80	-13.00	40.80	Vertical
7382.9461	-52.30	-13.00	39.30	Vertical
8624.5875	-51.45	-13.00	38.45	Vertical
42.4651	-61.82	-13.00	48.82	Horizontal
239.1425	-64.97	-13.00	51.97	Horizontal
1242.4485	-62.39	-13.00	49.39	Horizontal
1648.9298	-49.59	-13.00	36.59	Horizontal
2443.0886	-53.35	-13.00	40.35	Horizontal
8565.1855	-52.40	-13.00	39.40	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.0476	-62.19	-13.00	49.19	Vertical
1664.1328	-51.80	-13.00	38.80	Vertical
2480.6961	-34.39	-13.00	21.39	Vertical
3328.2109	-57.03	-13.00	44.03	Vertical
7358.9453	-52.36	-13.00	39.36	Vertical
8859.1953	-50.82	-13.00	37.82	Vertical
43.0957	-60.91	-13.00	47.91	Horizontal
1242.0484	-61.48	-13.00	48.48	Horizontal
1664.1328	-53.24	-13.00	40.24	Horizontal
2571.9144	-56.28	-13.00	43.28	Horizontal
7460.1487	-52.85	-13.00	39.85	Horizontal
8849.1950	-51.66	-13.00	38.66	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.1859	-62.46	-13.00	49.46	Vertical
1242.0484	-61.39	-13.00	48.39	Vertical
1679.3359	-45.51	-13.00	32.51	Vertical
2677.9356	-45.19	-13.00	32.19	Vertical
3358.2119	-51.26	-13.00	38.26	Vertical
8795.3932	-51.05	-13.00	38.05	Vertical
39.4580	-62.60	-13.00	49.60	Horizontal
238.5604	-65.54	-13.00	52.54	Horizontal
1242.0484	-60.75	-13.00	47.75	Horizontal
1792.5585	-50.21	-13.00	37.21	Horizontal
3358.2119	-54.77	-13.00	41.77	Horizontal
7358.3453	-52.87	-13.00	39.87	Horizontal

7.1. Test Mode =LTE/TM1 (Second Ant)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.5368	-62.69	-13.00	49.69	Vertical
1666.9334	-47.08	-13.00	34.08	Vertical
2500.3001	-56.39	-13.00	43.39	Vertical
7357.7453	-52.86	-13.00	39.86	Vertical
8862.3954	-51.36	-13.00	38.36	Vertical
106.5368	-62.69	-13.00	49.69	Vertical
45.1813	-61.61	-13.00	48.61	Horizontal
1666.9334	-42.36	-13.00	29.36	Horizontal
2500.3001	-55.06	-13.00	42.06	Horizontal
3333.6111	-55.86	-13.00	42.86	Horizontal
7360.1453	-53.35	-13.00	40.35	Horizontal
8801.9934	-51.49	-13.00	38.49	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.0476	-63.12	-13.00	50.12	Vertical
1681.7363	-44.80	-13.00	31.80	Vertical
2523.1046	-56.73	-13.00	43.73	Vertical



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3363.4121	-57.21	-13.00	44.21	Vertical
4204.4401	-56.75	-13.00	43.75	Vertical
8875.9959	-51.81	-13.00	38.81	Vertical
40.9615	-62.73	-13.00	49.73	Horizontal
1681.7363	-40.07	-13.00	27.07	Horizontal
2440.2881	-27.74	-13.00	14.74	Horizontal
3363.4121	-53.59	-13.00	40.59	Horizontal
7351.9451	-53.56	-13.00	40.56	Horizontal
8834.3945	-51.33	-13.00	38.33	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.9391	-62.43	-13.00	49.43	Vertical
1696.9394	-48.69	-13.00	35.69	Vertical
2410.6821	-52.75	-13.00	39.75	Vertical
2582.3165	-43.82	-13.00	30.82	Vertical
3393.6131	-57.88	-13.00	44.88	Vertical
8790.3930	-52.06	-13.00	39.06	Vertical
41.3011	-63.04	-13.00	50.04	Horizontal
1696.9394	-44.21	-13.00	31.21	Horizontal
1902.1804	-58.06	-13.00	45.06	Horizontal
3393.6131	-54.33	-13.00	41.33	Horizontal
7356.3452	-53.90	-13.00	40.90	Horizontal
8861.5954	-52.24	-13.00	39.24	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	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-8.10	-0.009771	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-10.50	-0.012666	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-10.10	-0.012074	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-9.00	-0.010664	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-13.00	-0.015403	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-2.80	-0.003318	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-4.40	-0.005308	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	2.40	0.002895	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-14.50	-0.017334	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-4.20	-0.005021	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-11.20	-0.013270	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-9.60	-0.011374	±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	-9.50	-0.011460	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-13.20	-0.015923	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-7.70	-0.009288	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	0.20	0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-10.40	-0.012545	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-5.70	-0.006876	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-2.80	-0.003378	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-2.70	-0.003257	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-6.90	-0.008249	±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	0	-10.70	-0.012791	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.20	-0.007412	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	2.40	0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-10.00	-0.011955	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-9.30	-0.011118	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	2.60	0.003108	±2.5	PASS



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Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-15.20	-0.018009	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-6.50	-0.007701	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-7.10	-0.008412	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-9.70	-0.011493	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-13.40	-0.015877	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-9.70	-0.011493	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-6.00	-0.007238	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-13.10	-0.015802	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-2.50	-0.003016	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	2.30	0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-10.10	-0.012183	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-2.90	-0.003498	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-10.30	-0.012425	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-4.90	-0.005858	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-6.00	-0.007173	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-9.30	-0.011019	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-9.00	-0.010759	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-10.80	-0.012911	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-9.40	-0.011137	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-10.90	-0.012915	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-12.20	-0.014455	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-12.60	-0.014929	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-9.30	-0.011019	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-14.10	-0.016706	±2.5	PASS



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