

# Appendix for LTE Band5

## FCC ID: 2AC88-GLMU19A02

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## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.55	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.85	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.46	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.54	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.55	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.55	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.64	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.46	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.72	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.55	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.67	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.49	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.65	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.58	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.57	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.68	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.49	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.63	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.42	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.29	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.56	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.65	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.87	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.59	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	24.61	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	24.59	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	24.64	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.65	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.87	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.03	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.96	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	24.56	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	24.60	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	24.52	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.55	PASS

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Band5	1.4MHz	16QAM	20643	1RB#0	23.87	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.91	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.69	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	24.50	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	24.57	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	24.41	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.66	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.58	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.70	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.38	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.69	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.61	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.41	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.72	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.65	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.60	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.60	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.67	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.79	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.87	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.66	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.65	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.53	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.42	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.44	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.55	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.30	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.55	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.79	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.63	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.33	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.69	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.64	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.40	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.60	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.55	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.64	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.08	PASS
Band5	3MHz	16QAM	20525	8RB#0	23.66	PASS
Band5	3MHz	16QAM	20525	8RB#4	23.68	PASS

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Band5	3MHz	16QAM	20525	8RB#7	24.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.50	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.47	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.34	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.31	PASS
Band5	3MHz	16QAM	20635	8RB#0	23.48	PASS
Band5	3MHz	16QAM	20635	8RB#4	23.32	PASS
Band5	3MHz	16QAM	20635	8RB#7	23.32	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.62	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.18	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.31	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.98	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.26	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.30	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.29	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.28	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.11	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.44	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.26	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.40	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.37	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.28	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.37	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.22	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.35	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.09	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.39	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.37	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.35	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.33	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.89	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.92	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.87	PASS
Band5	5MHz	16QAM	20425	12RB#0	23.24	PASS
Band5	5MHz	16QAM	20425	12RB#6	23.40	PASS
Band5	5MHz	16QAM	20425	12RB#13	23.25	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.21	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.25	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.31	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.35	PASS

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Band5	5MHz	16QAM	20525	12RB#0	23.38	PASS
Band5	5MHz	16QAM	20525	12RB#6	23.36	PASS
Band5	5MHz	16QAM	20525	12RB#13	23.28	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.23	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.42	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.53	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.30	PASS
Band5	5MHz	16QAM	20625	12RB#0	23.38	PASS
Band5	5MHz	16QAM	20625	12RB#6	23.36	PASS
Band5	5MHz	16QAM	20625	12RB#13	23.35	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.39	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.34	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.35	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.37	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.37	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.47	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.51	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.35	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.43	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.79	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.48	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.56	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.47	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.42	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.35	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.58	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.23	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.47	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.47	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.48	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.39	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.60	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.76	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.57	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.48	PASS
Band5	10MHz	16QAM	20450	25RB#12	23.47	PASS
Band5	10MHz	16QAM	20450	25RB#25	23.51	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.52	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.23	PASS

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Band5	10MHz	16QAM	20525	1RB#24	23.68	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.63	PASS
Band5	10MHz	16QAM	20525	25RB#0	23.47	PASS
Band5	10MHz	16QAM	20525	25RB#12	23.47	PASS
Band5	10MHz	16QAM	20525	25RB#25	23.43	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.56	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.27	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.57	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.44	PASS
Band5	10MHz	16QAM	20600	25RB#0	23.47	PASS
Band5	10MHz	16QAM	20600	25RB#12	23.47	PASS
Band5	10MHz	16QAM	20600	25RB#25	23.48	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.38	PASS

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## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.96	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.59	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.96	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.51	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.32	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.42	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.83	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.46	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.88	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.43	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.74	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.29	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.93	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.62	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.99	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.59	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.75	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.51	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.91	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.52	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.83	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.46	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.83	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.41	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.75	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.57	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.90	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.39	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.84	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.42	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.71	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.41	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.65	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.29	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.65	13	PASS

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Band5	5MHz	16QAM	20625	25RB#0	6.32	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.52	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.48	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.93	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.22	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.41	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.33	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.48	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.38	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.94	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.17	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.19	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.23	13	PASS

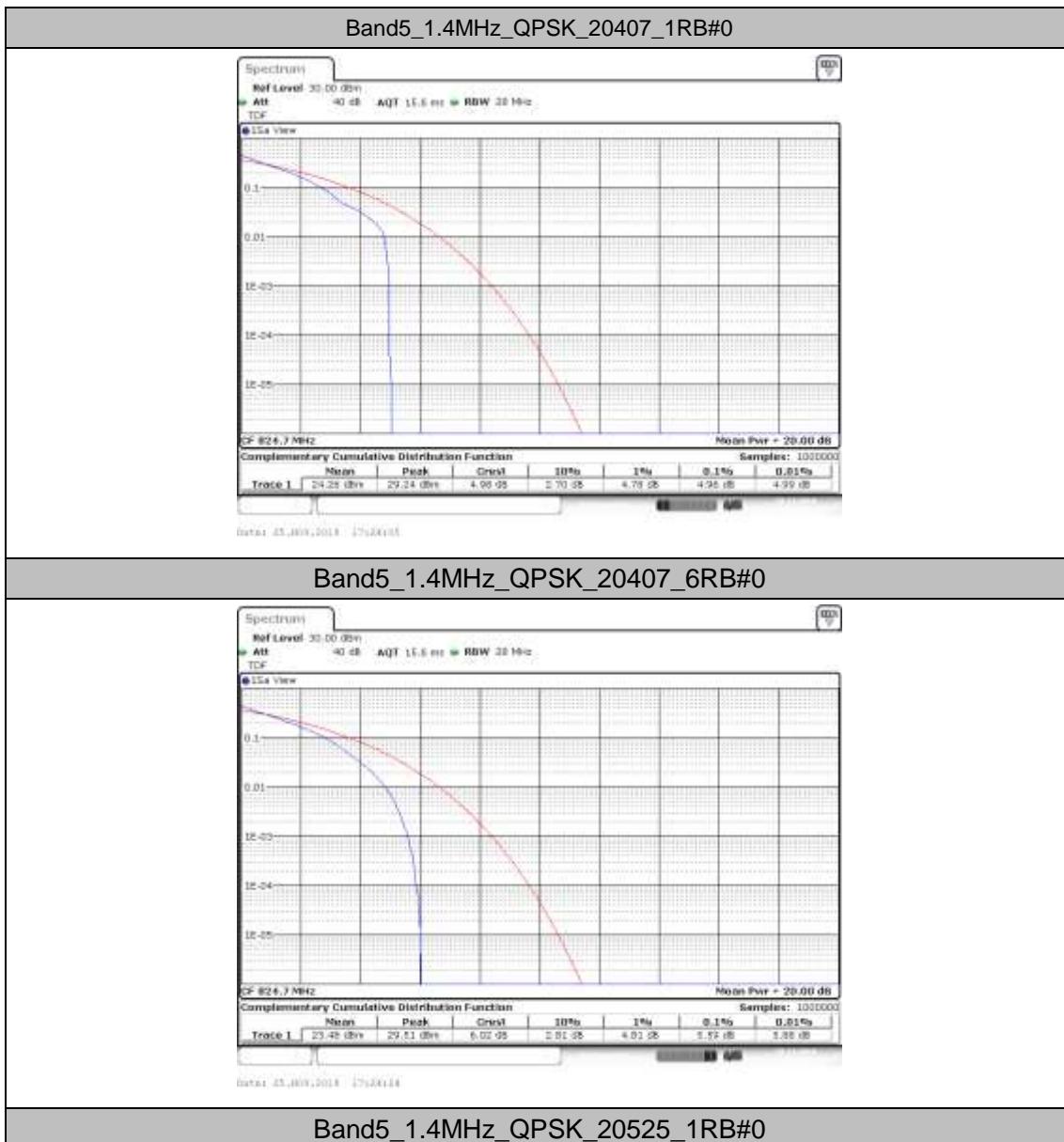
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## Test Graphs



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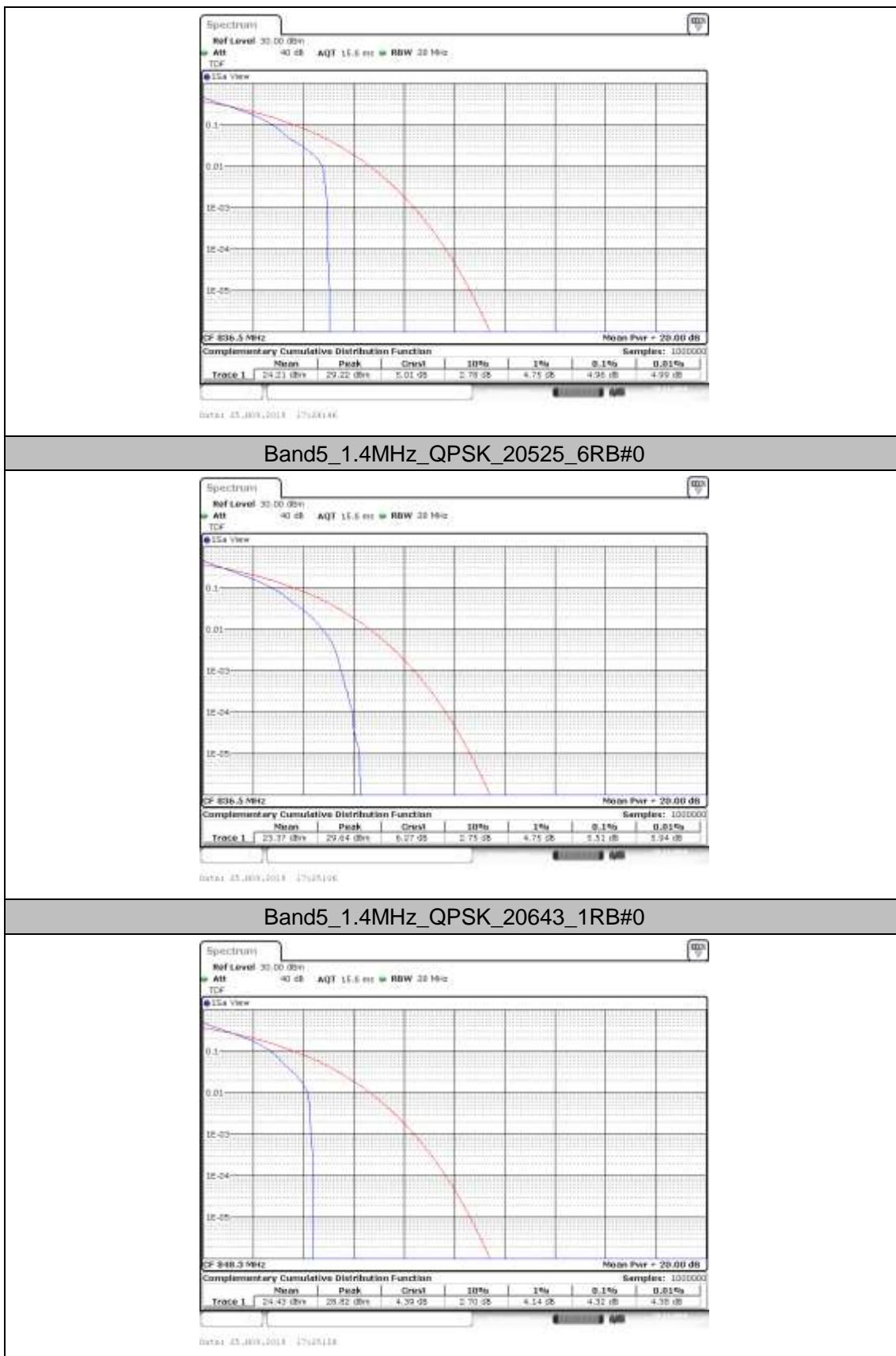
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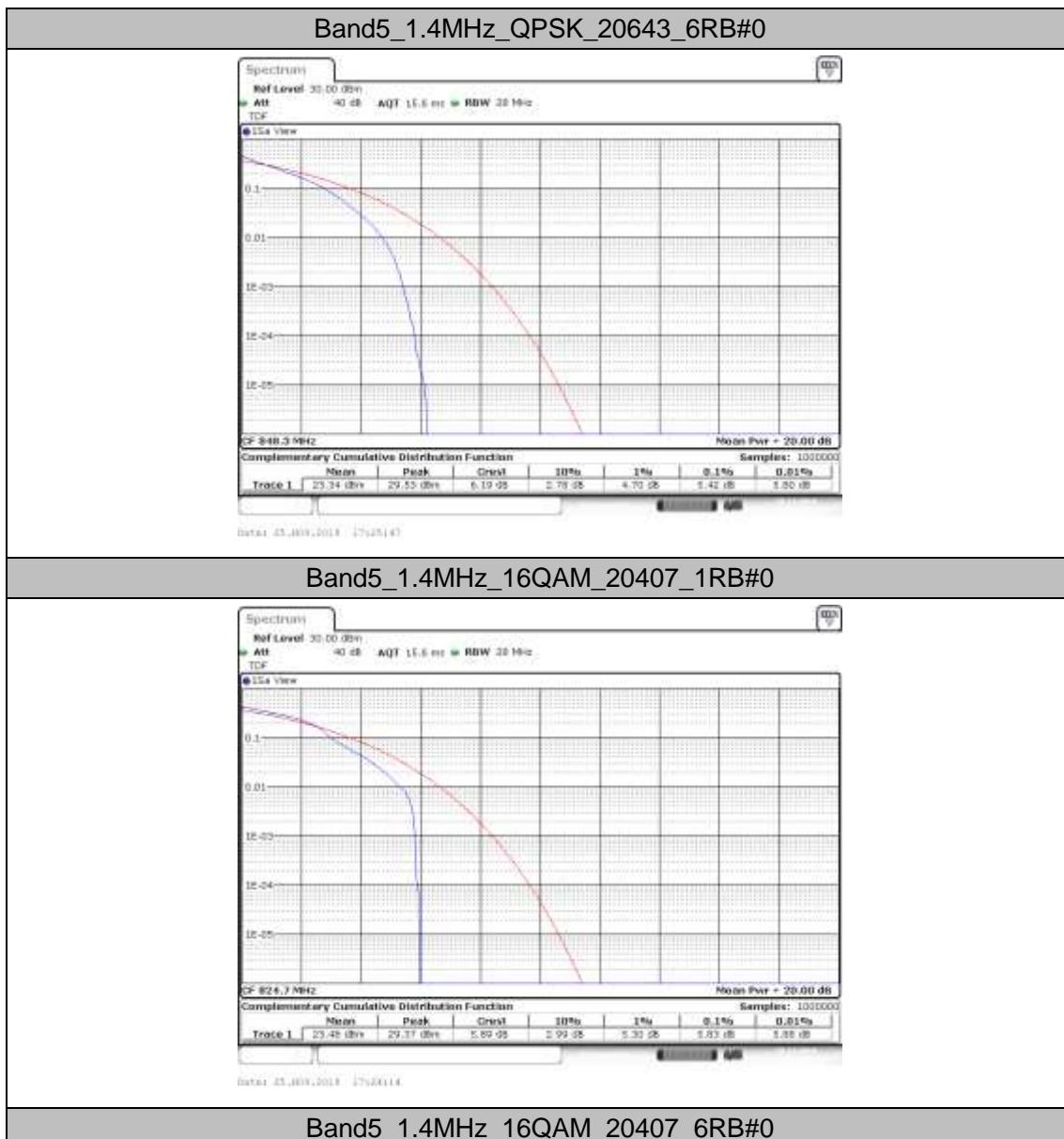
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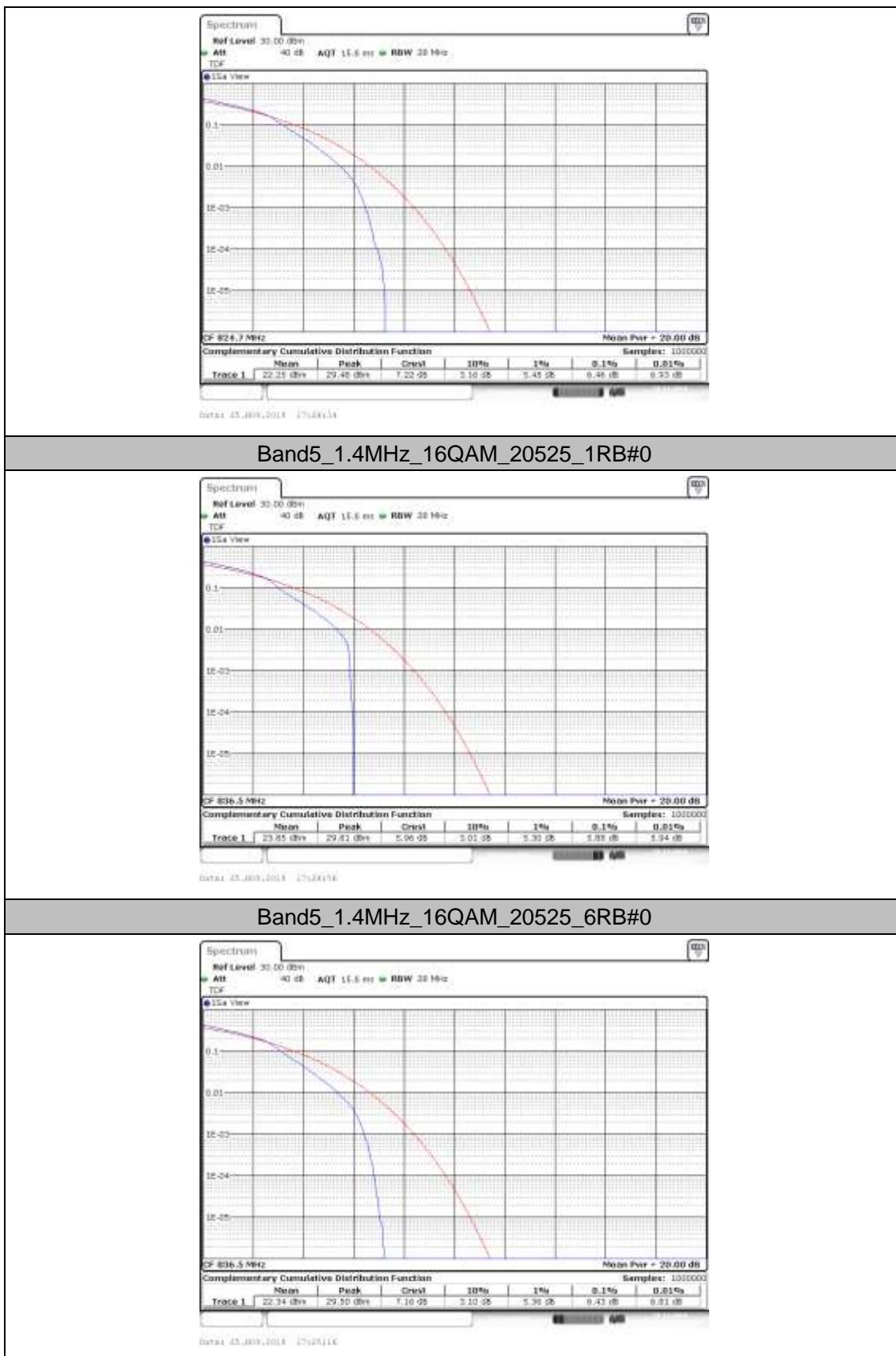
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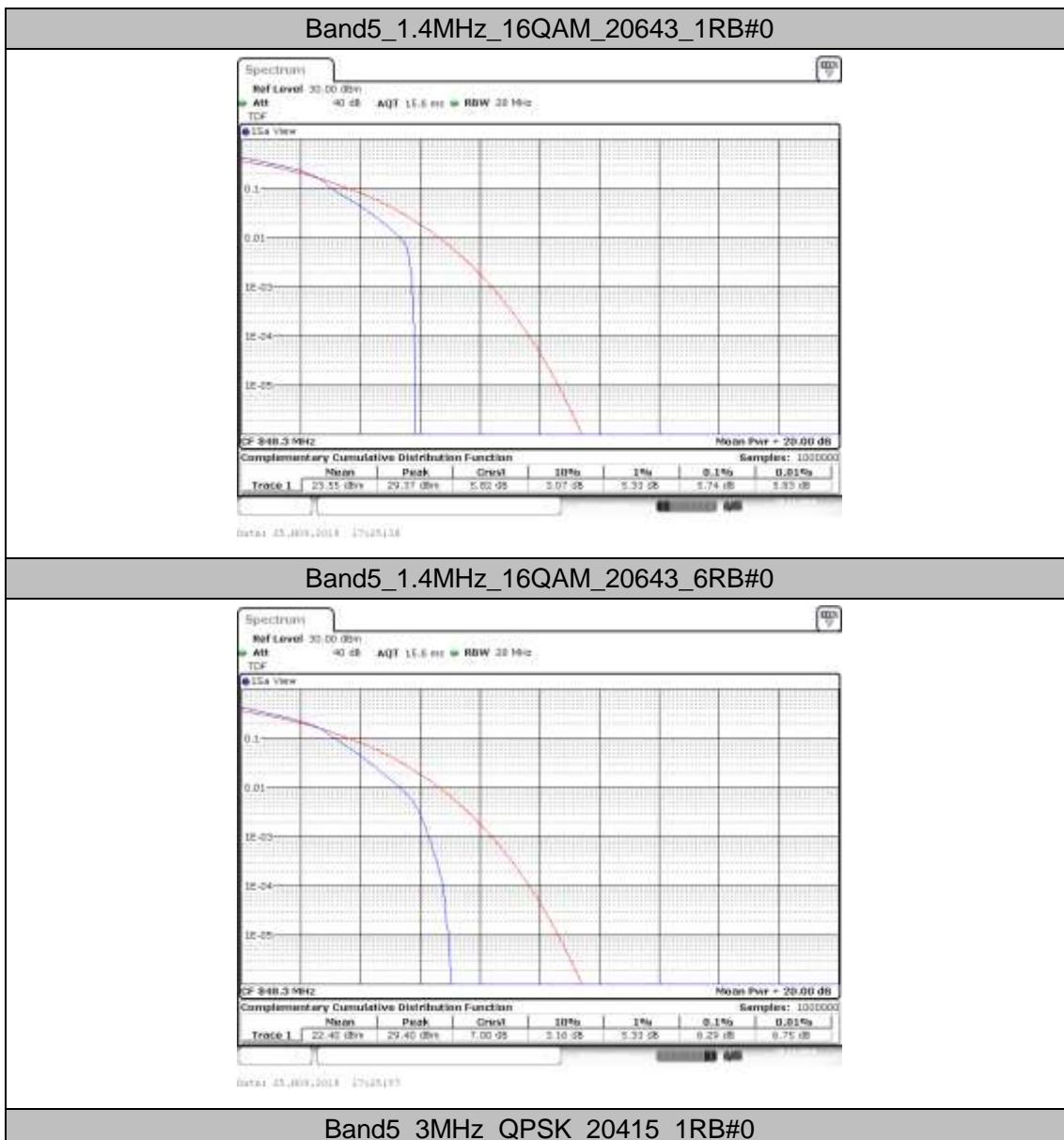
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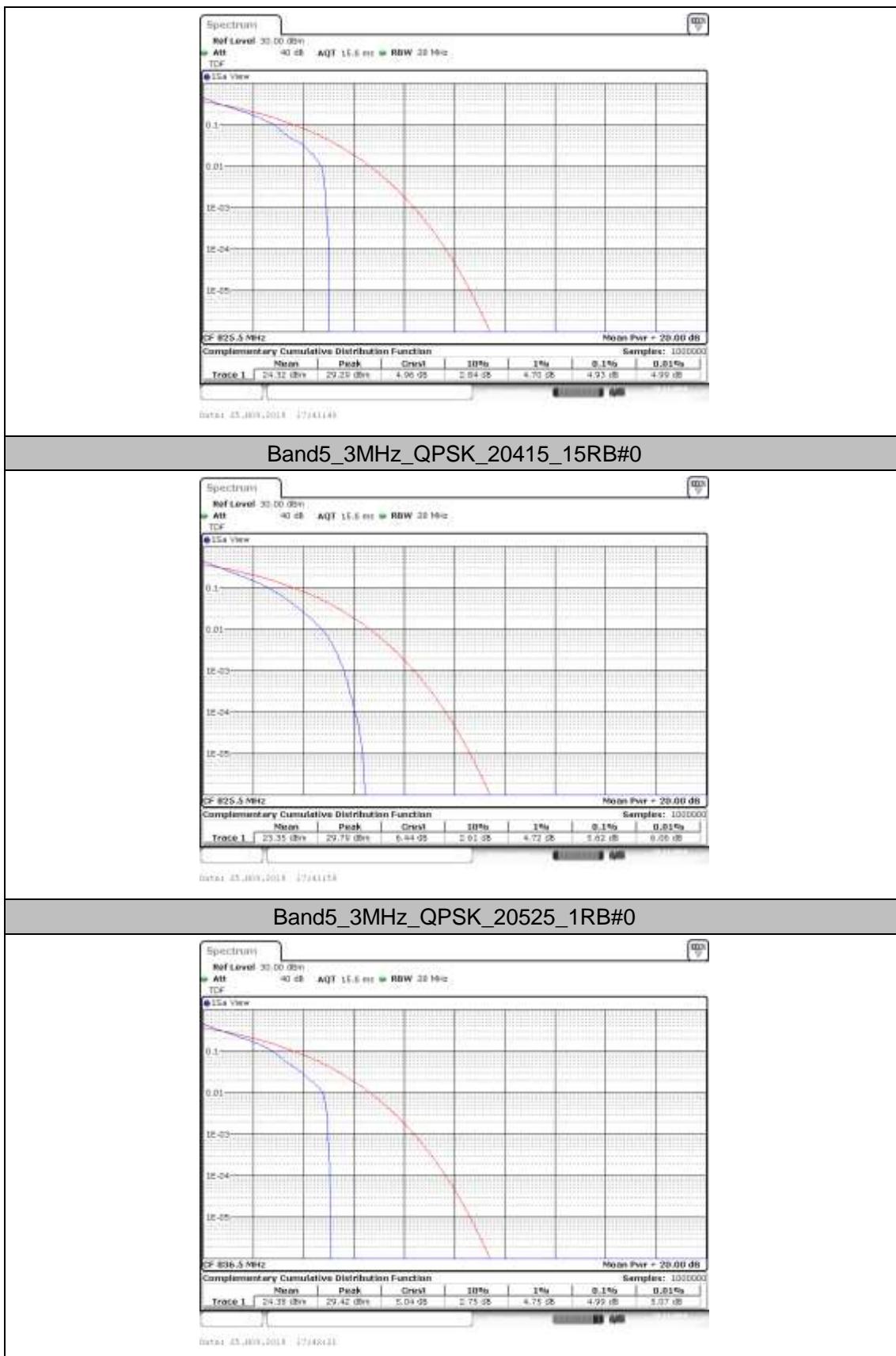
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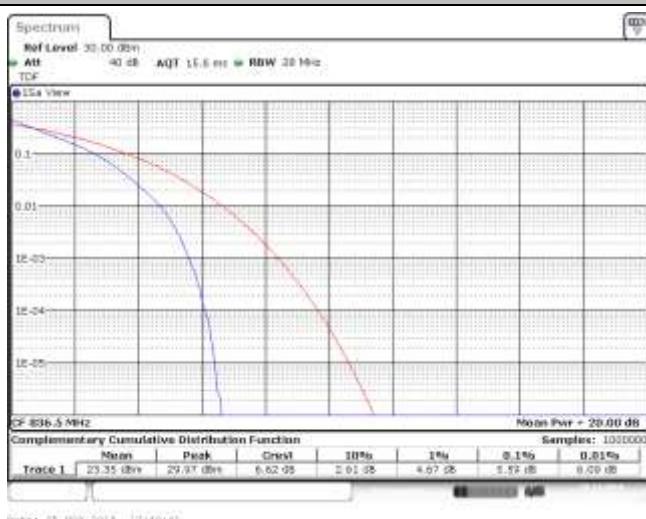
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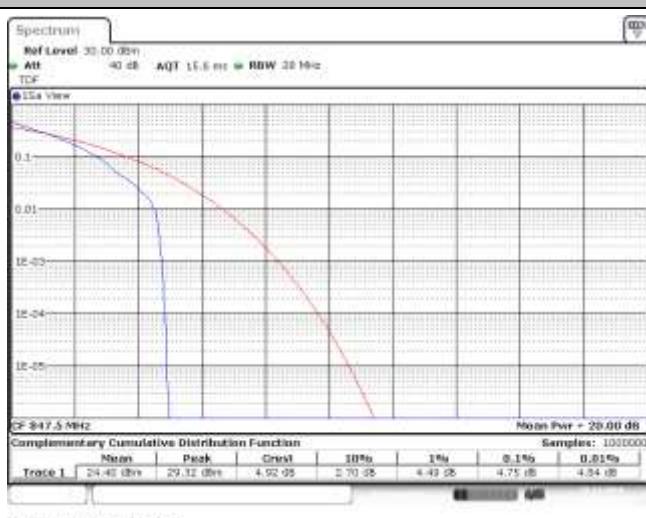
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## Band5\_3MHz\_QPSK\_20525\_15RB#0



## Band5\_3MHz\_QPSK\_20635\_1RB#0



## Band5\_3MHz\_QPSK\_20635\_15RB#0

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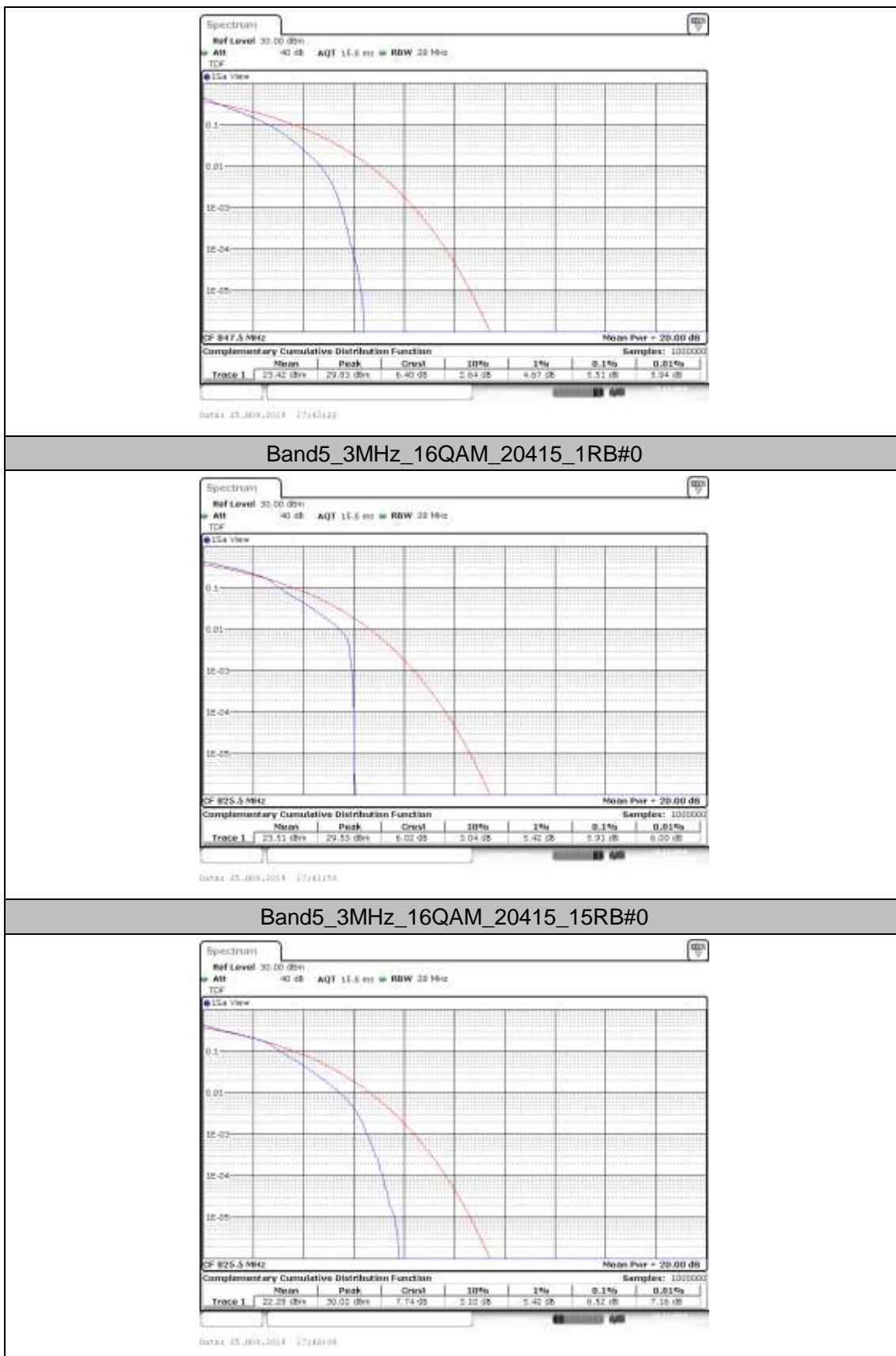
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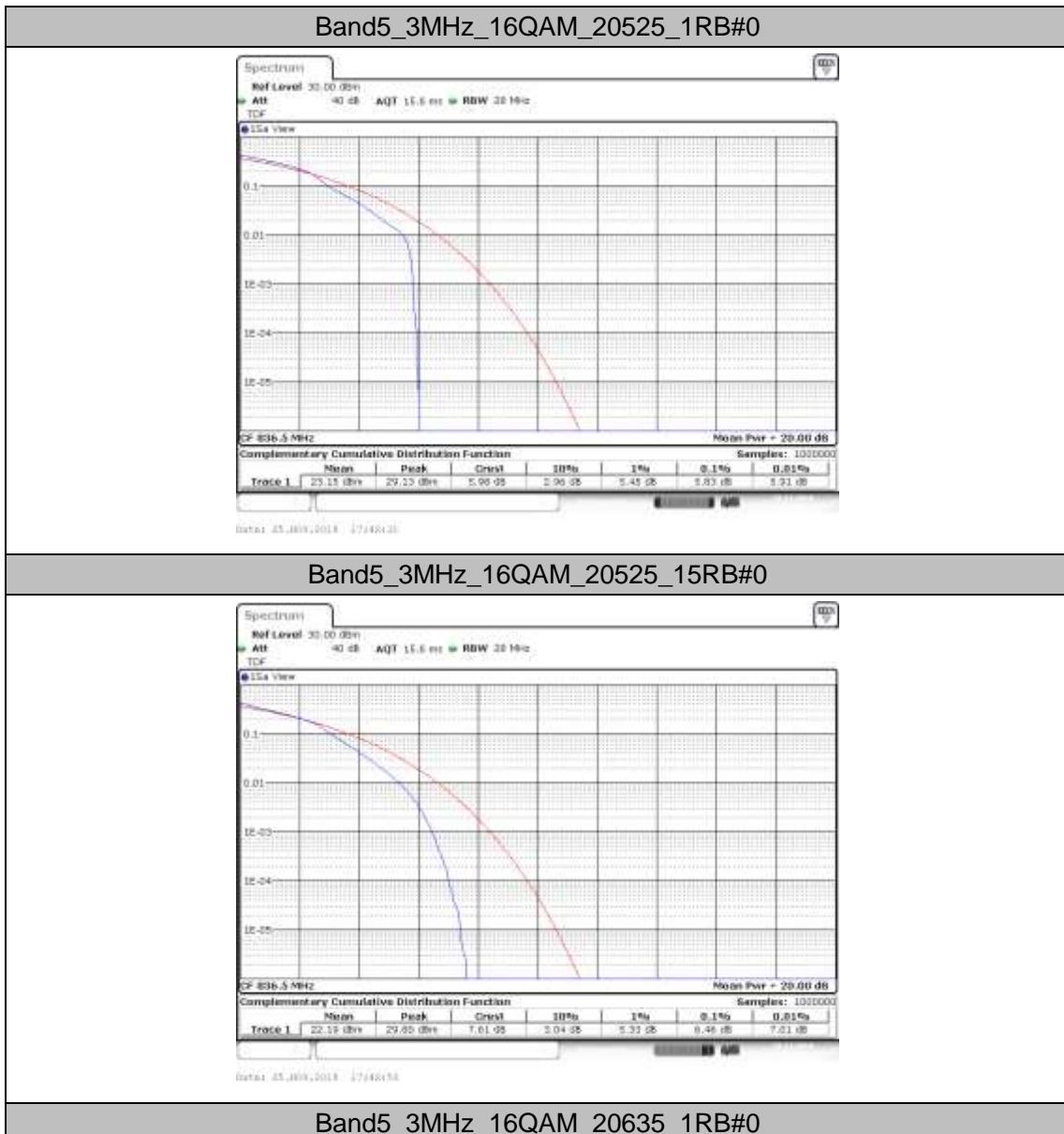
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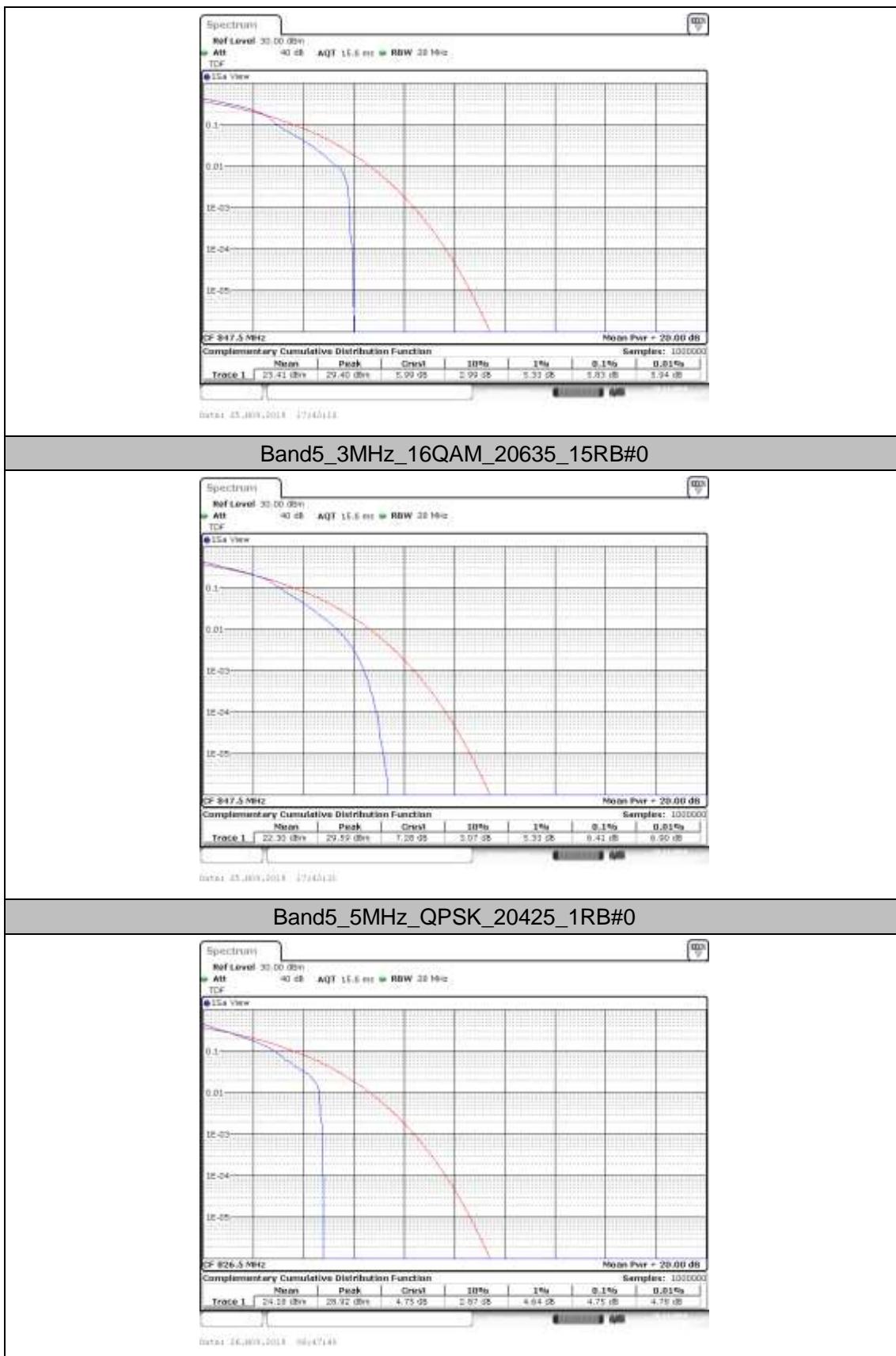
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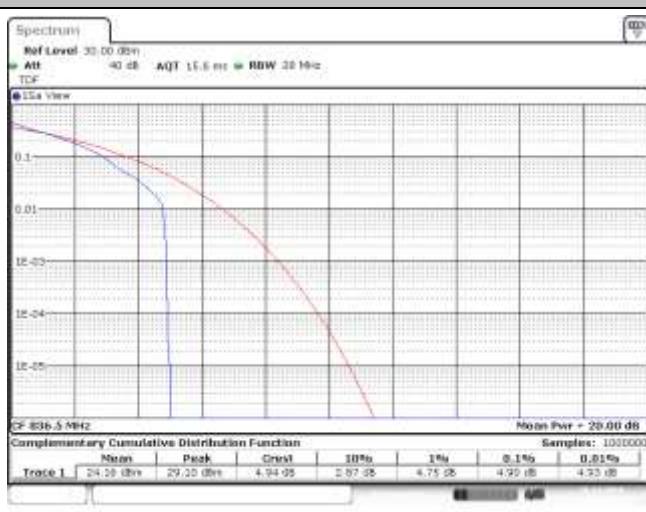
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## Band5\_5MHz\_QPSK\_20425\_25RB#0



## Band5\_5MHz\_QPSK\_20525\_1RB#0



## Band5\_5MHz\_QPSK\_20525\_25RB#0

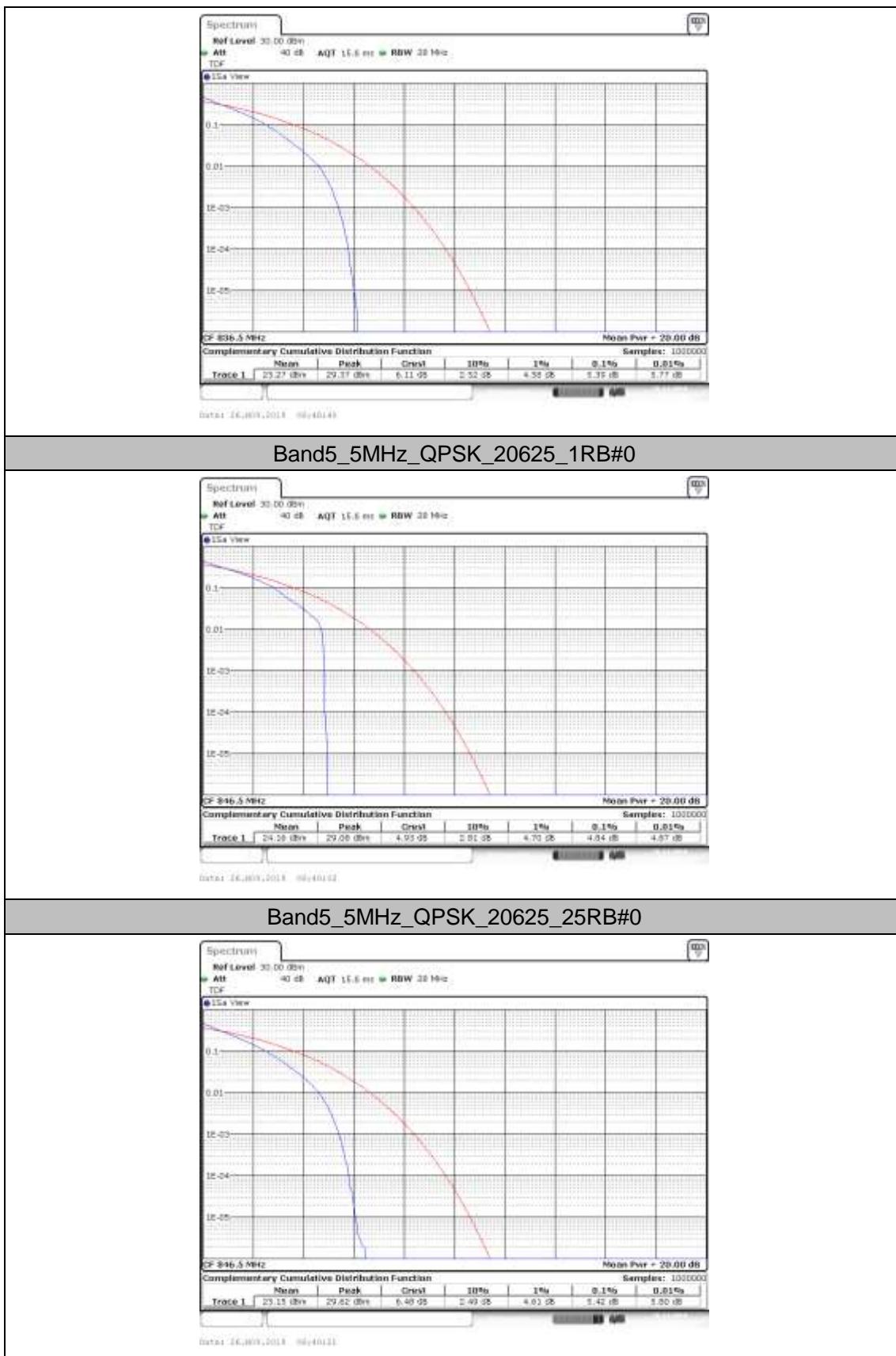
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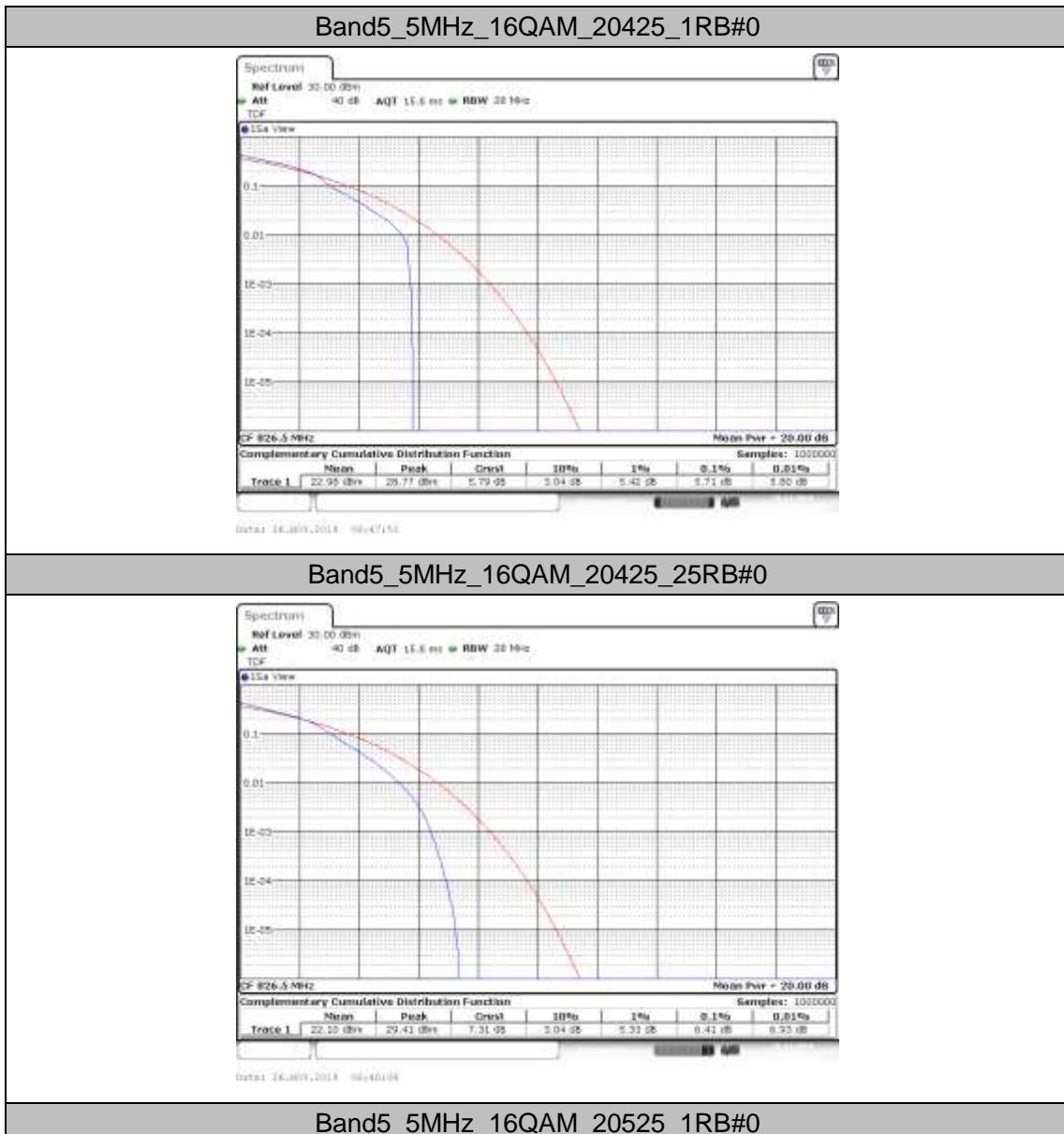
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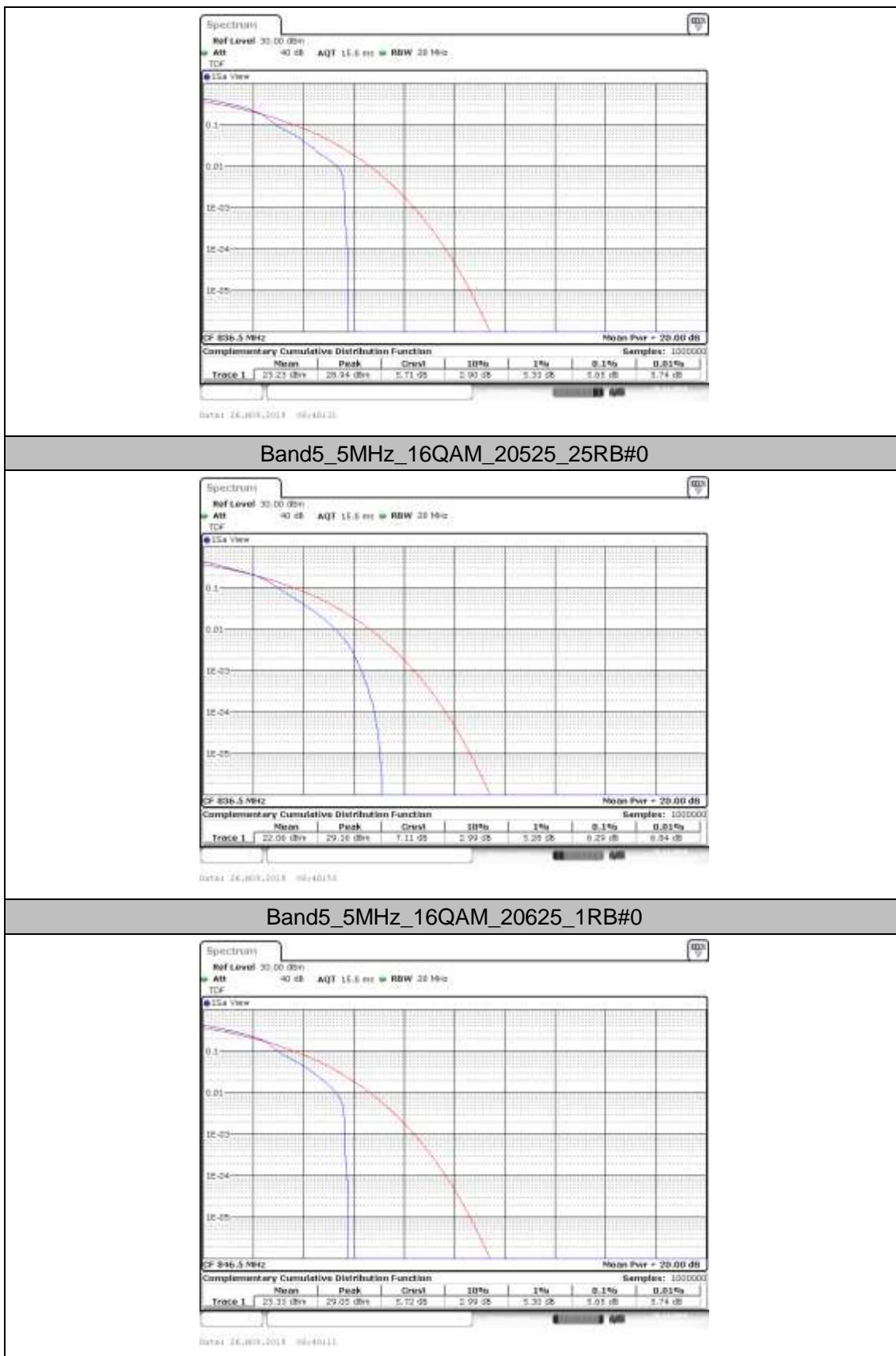
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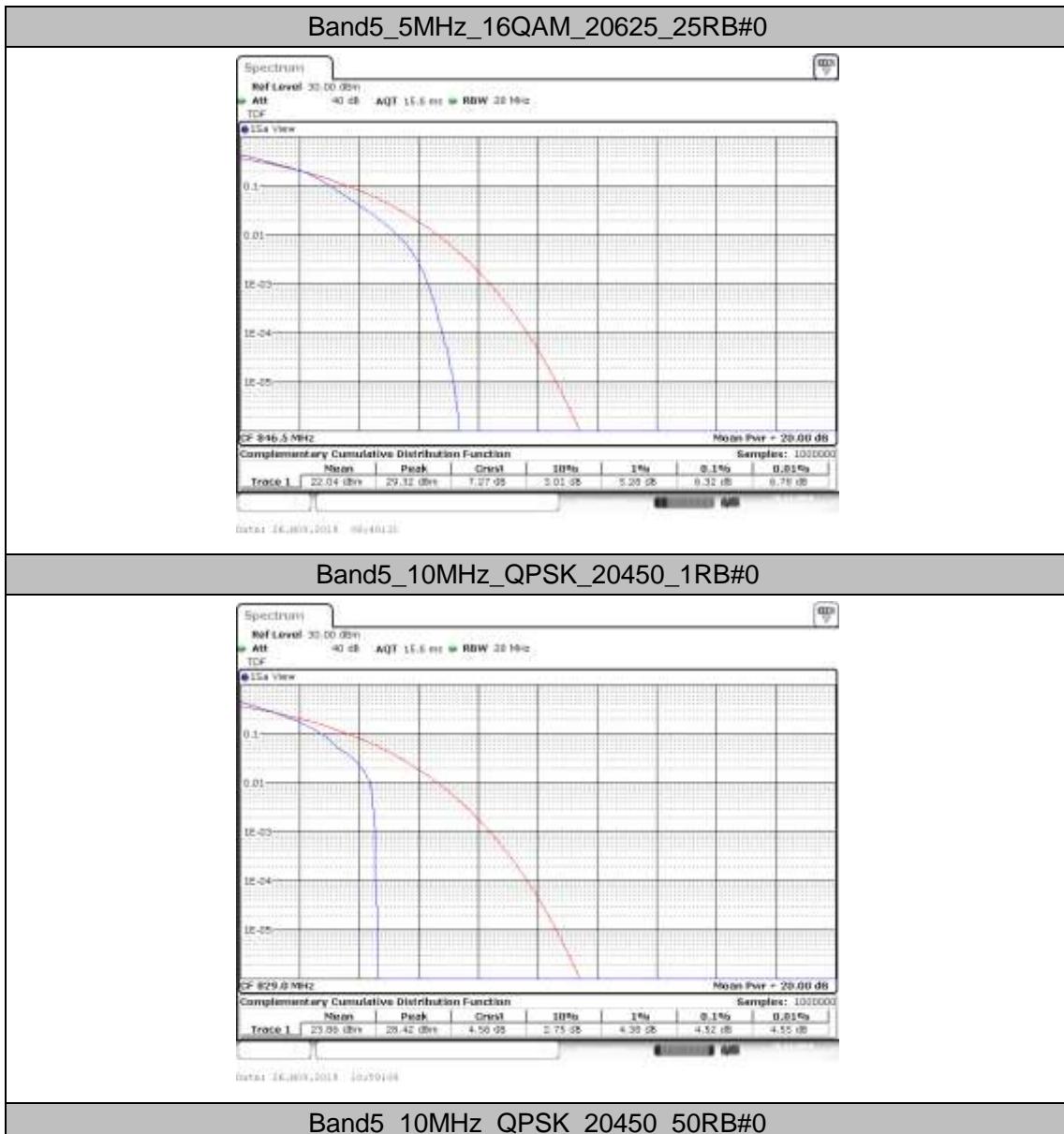
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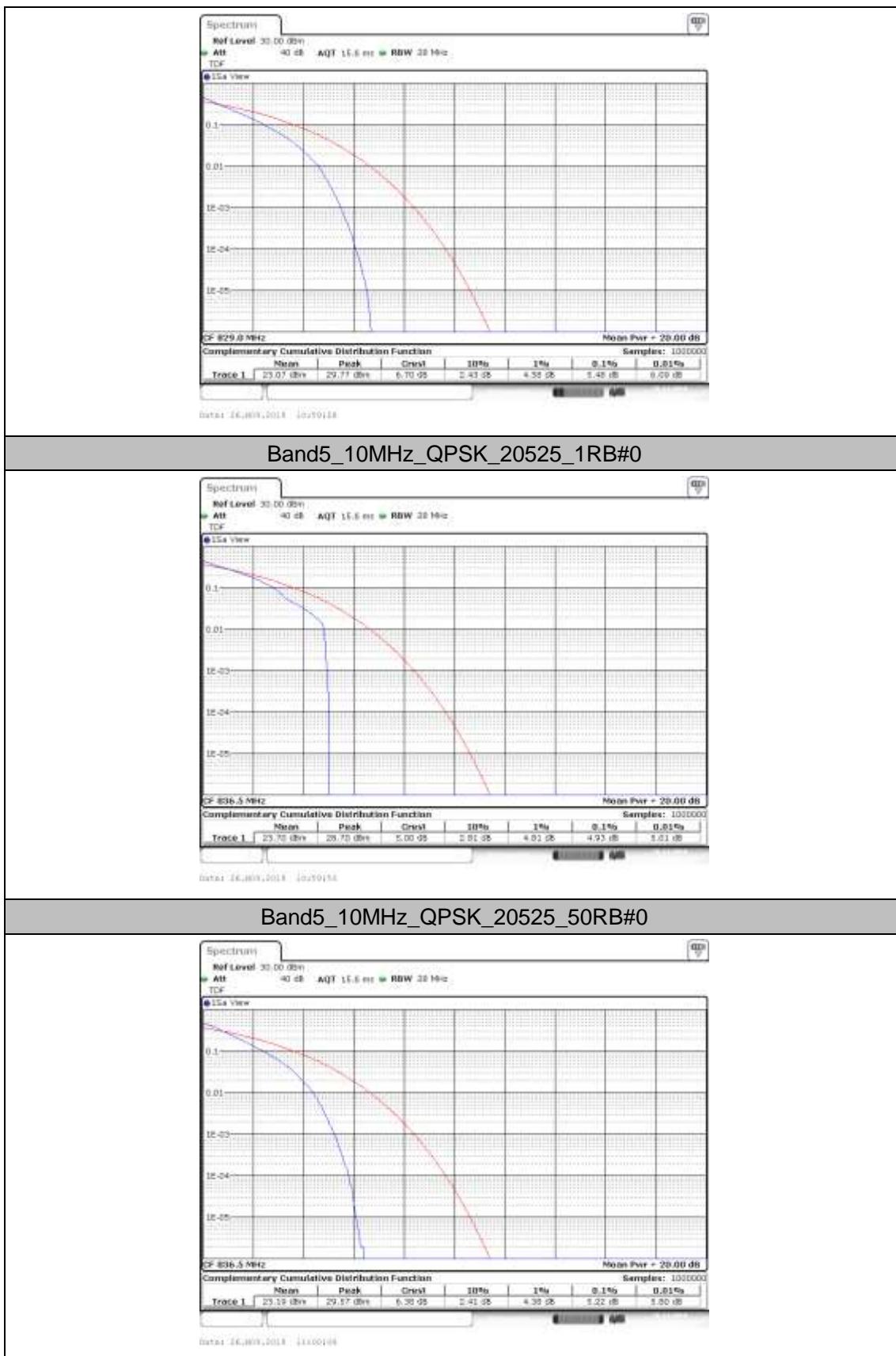
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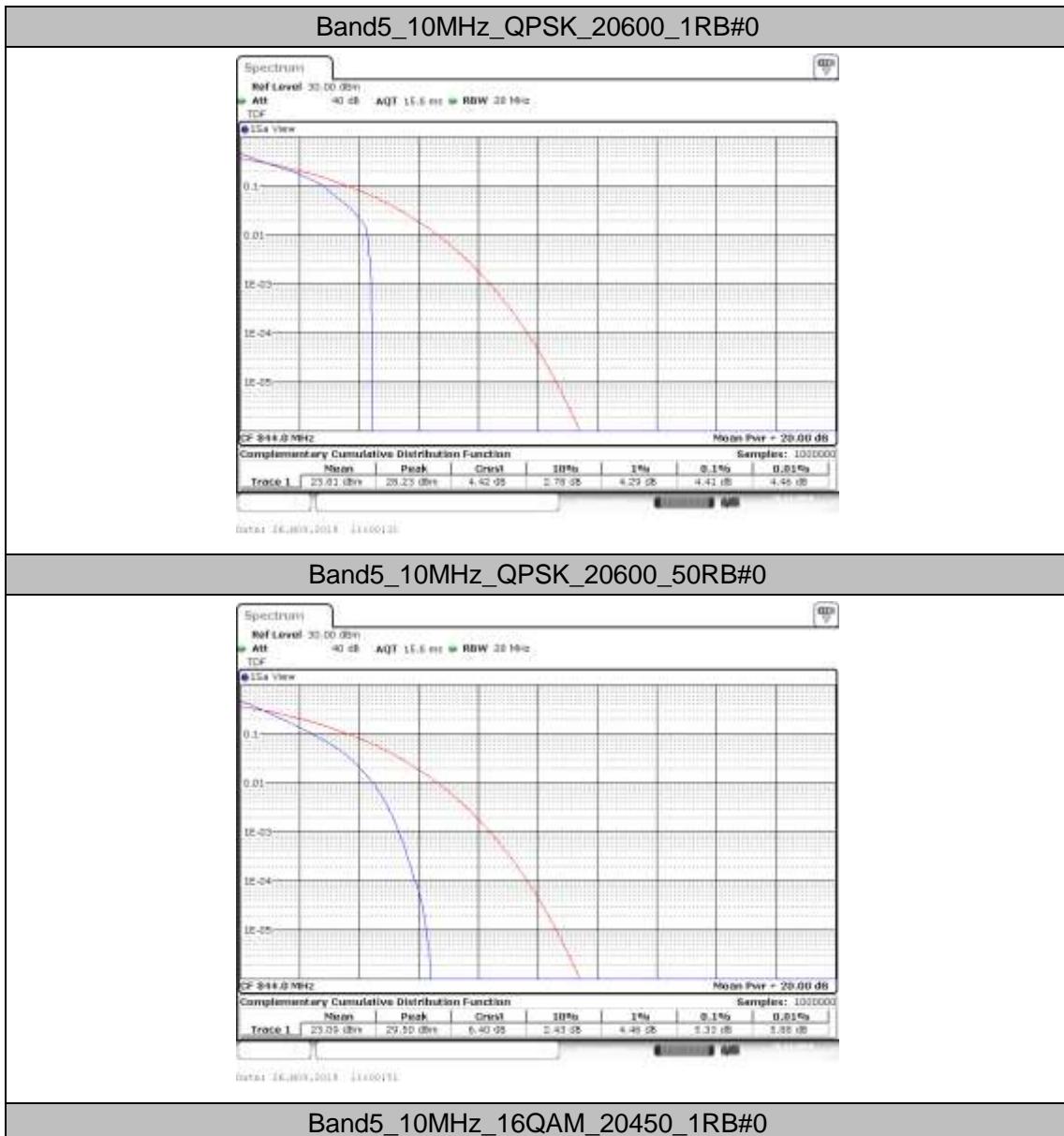
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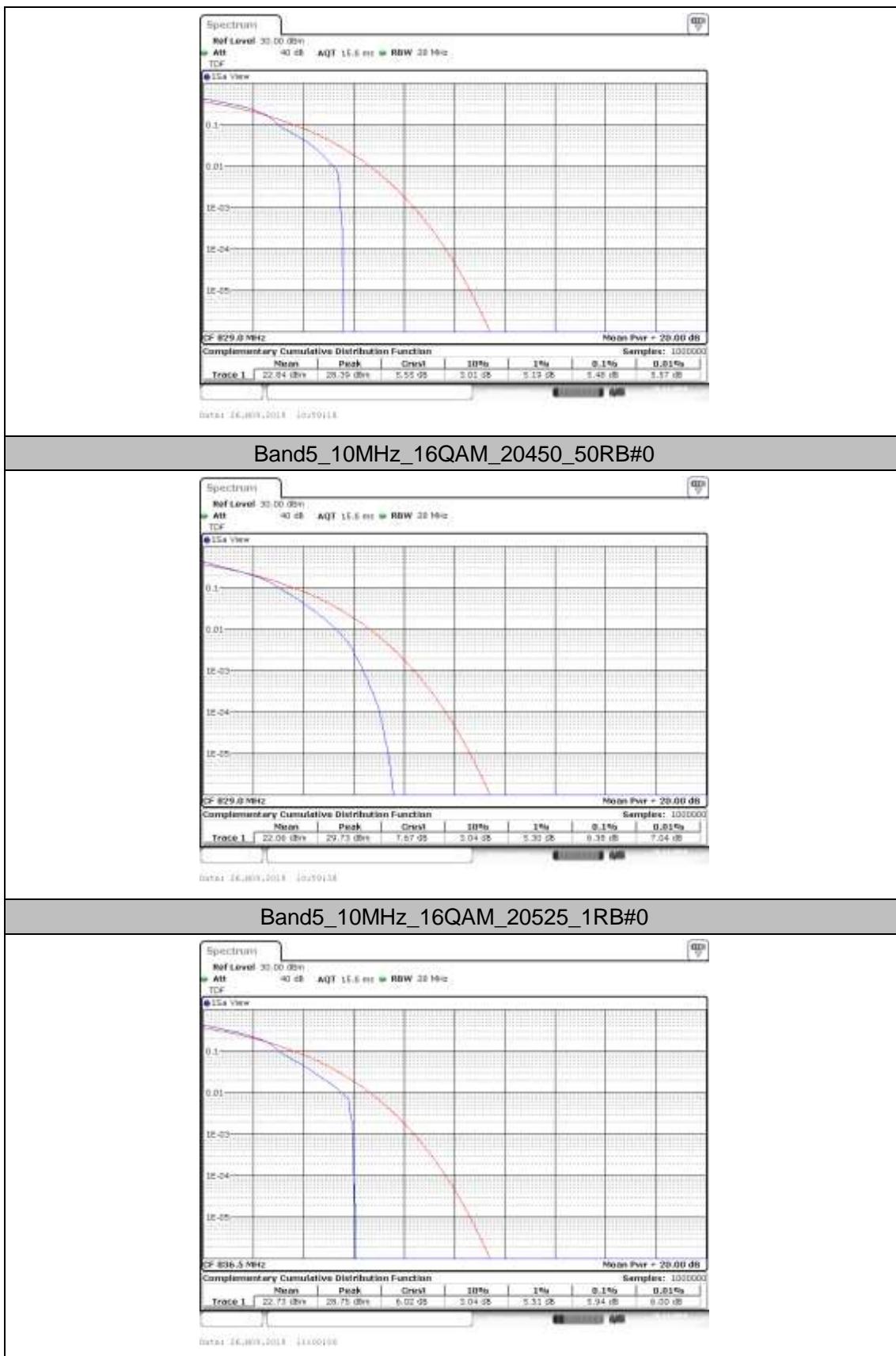
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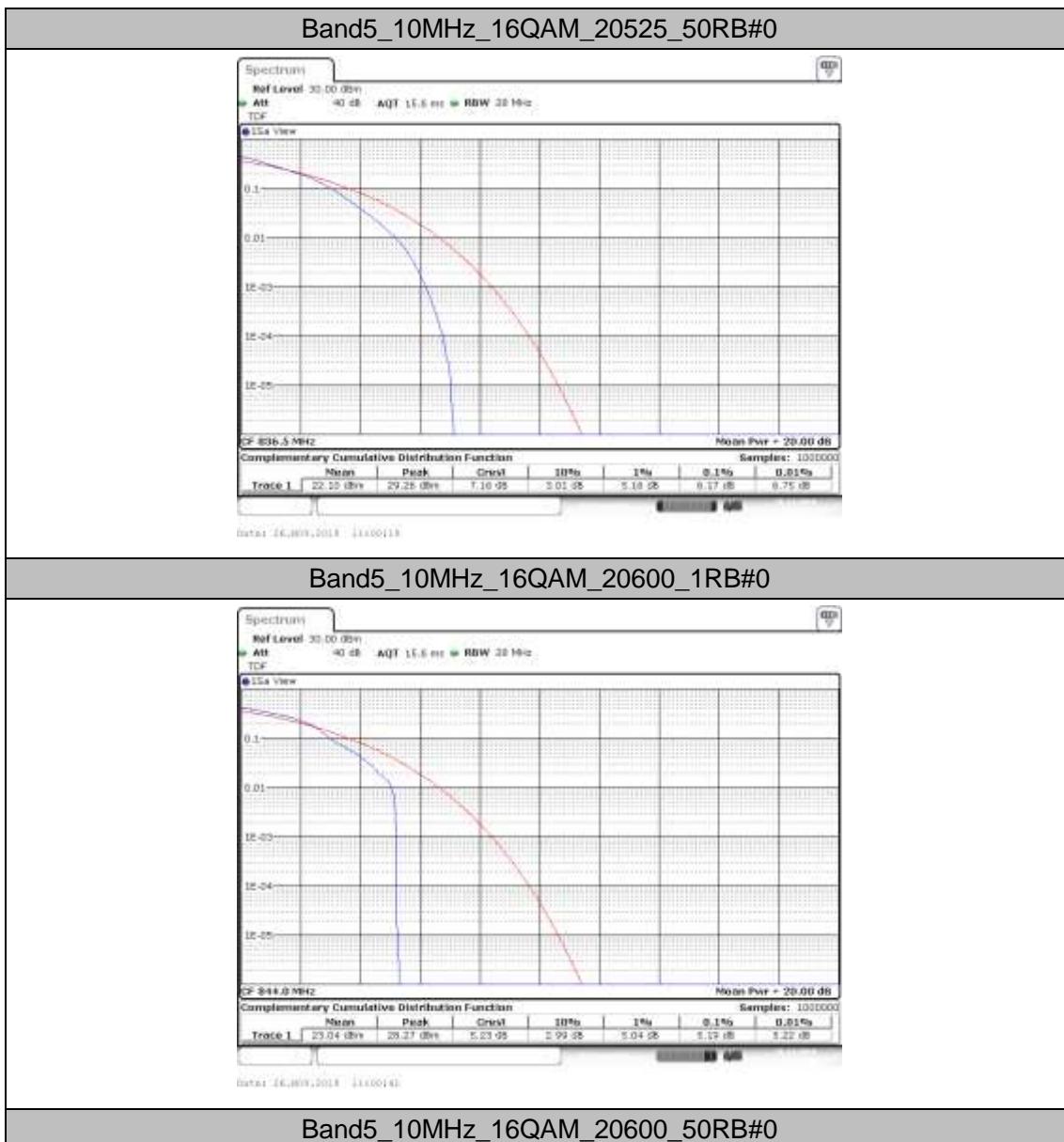
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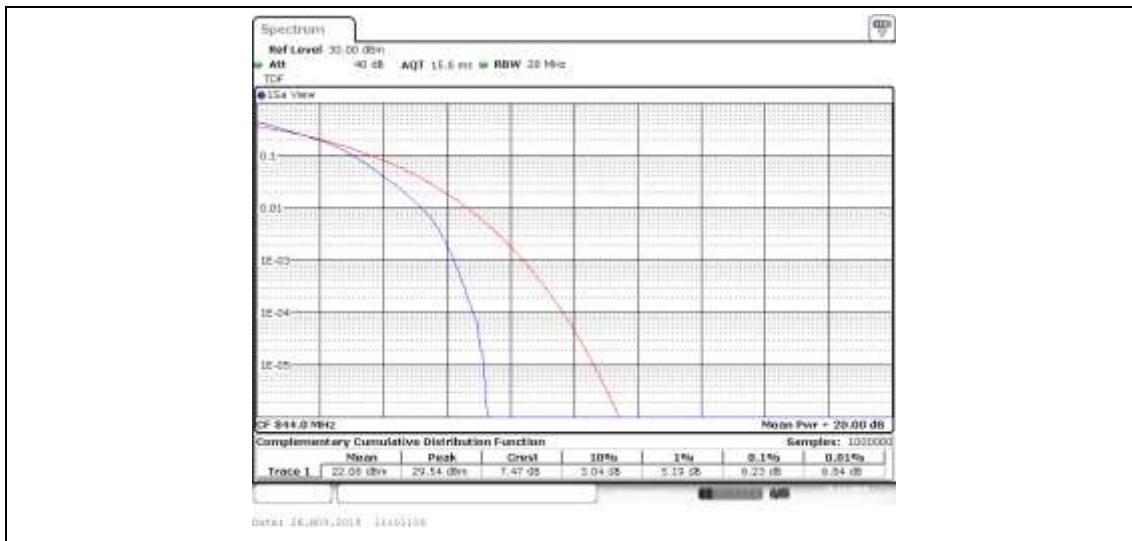
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## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.093	1.260	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.235	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.225	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.255	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.210	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.170	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	2.870	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.705	2.880	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.880	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	2.890	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.696	2.860	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	2.870	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.505	4.800	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.486	4.770	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.496	4.780	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.780	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.790	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.790	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.985	9.533	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.952	9.533	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.952	9.533	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	9.533	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.918	9.533	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.952	9.533	PASS

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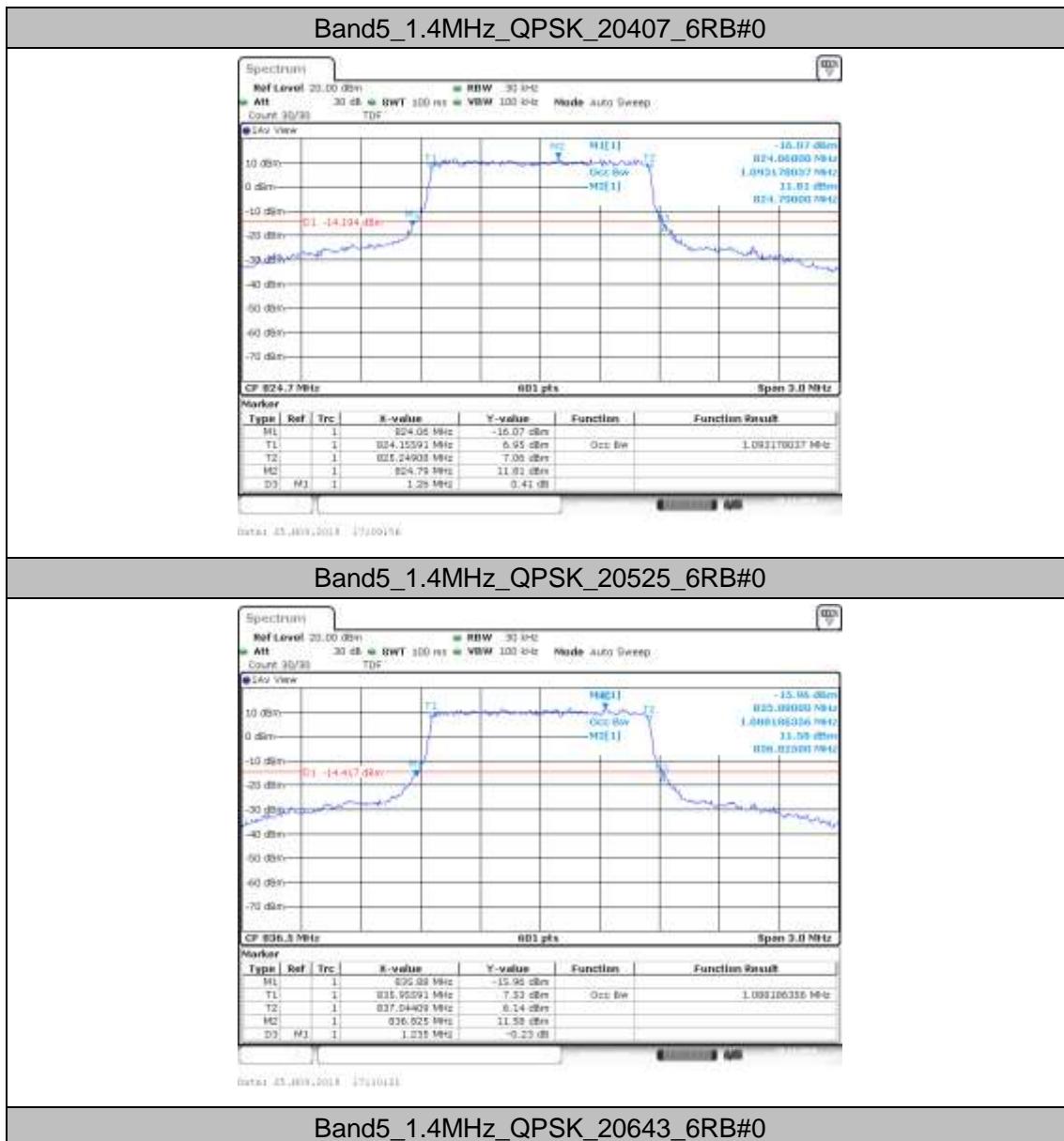
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## Test Graphs



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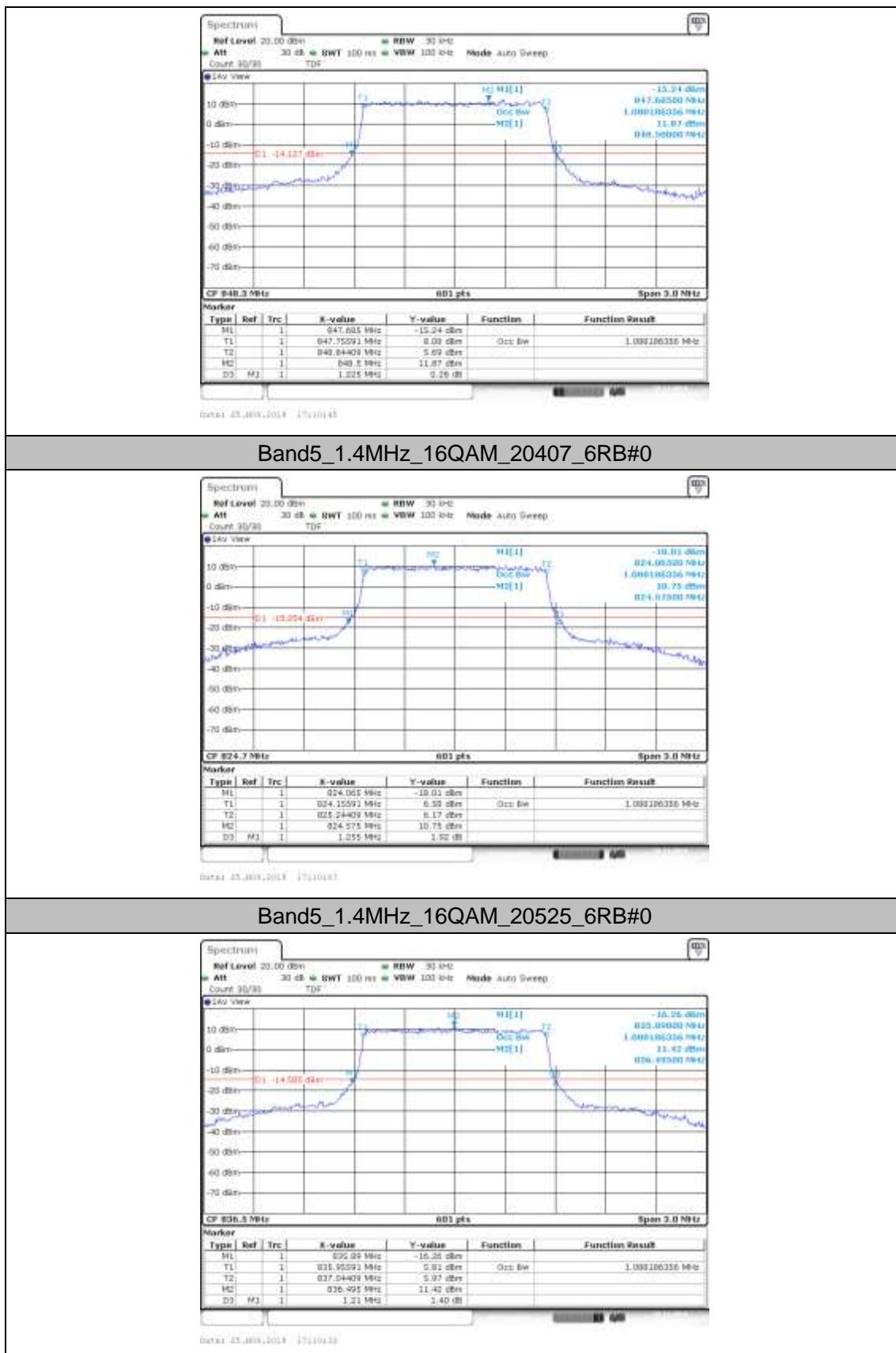
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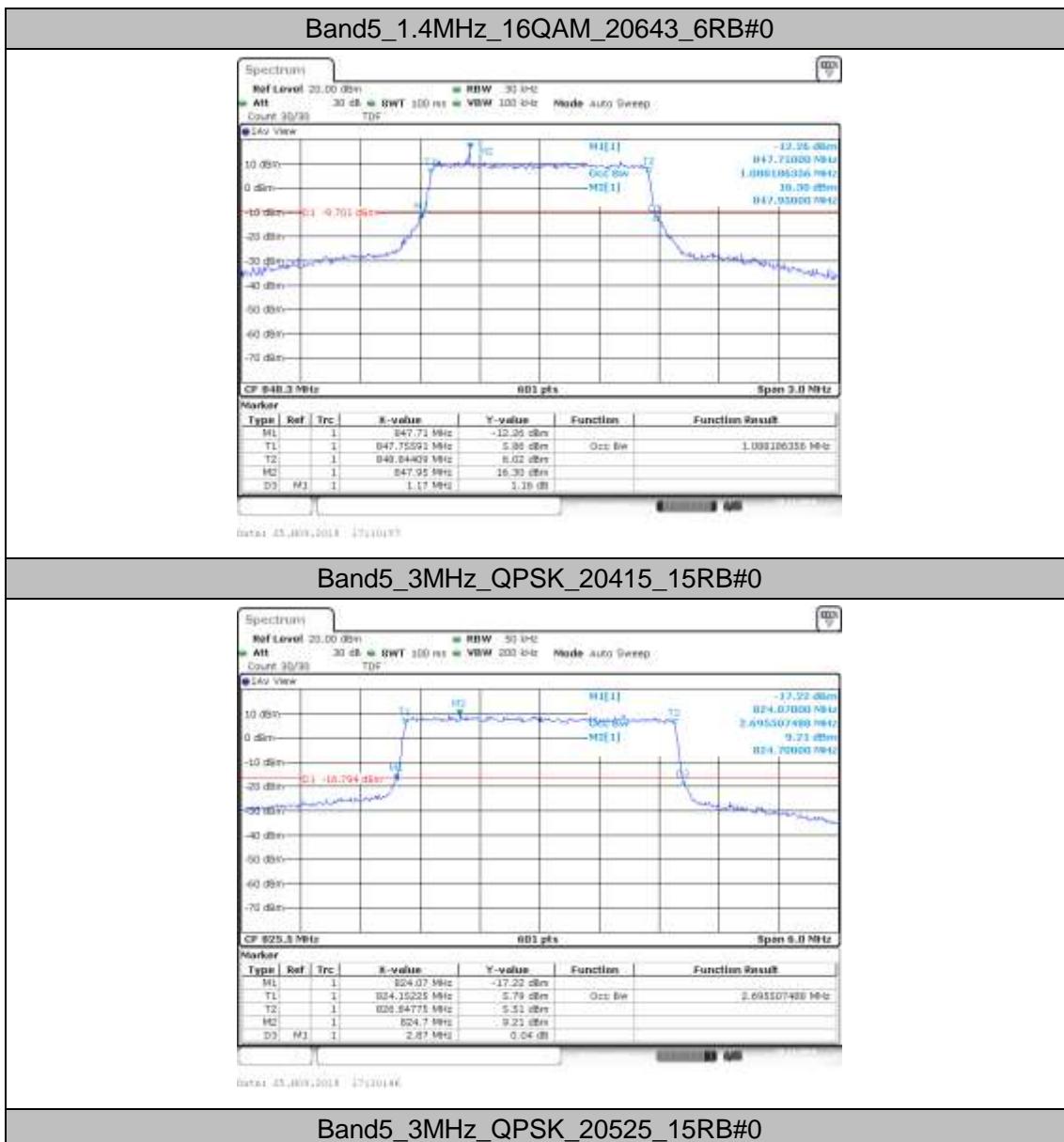
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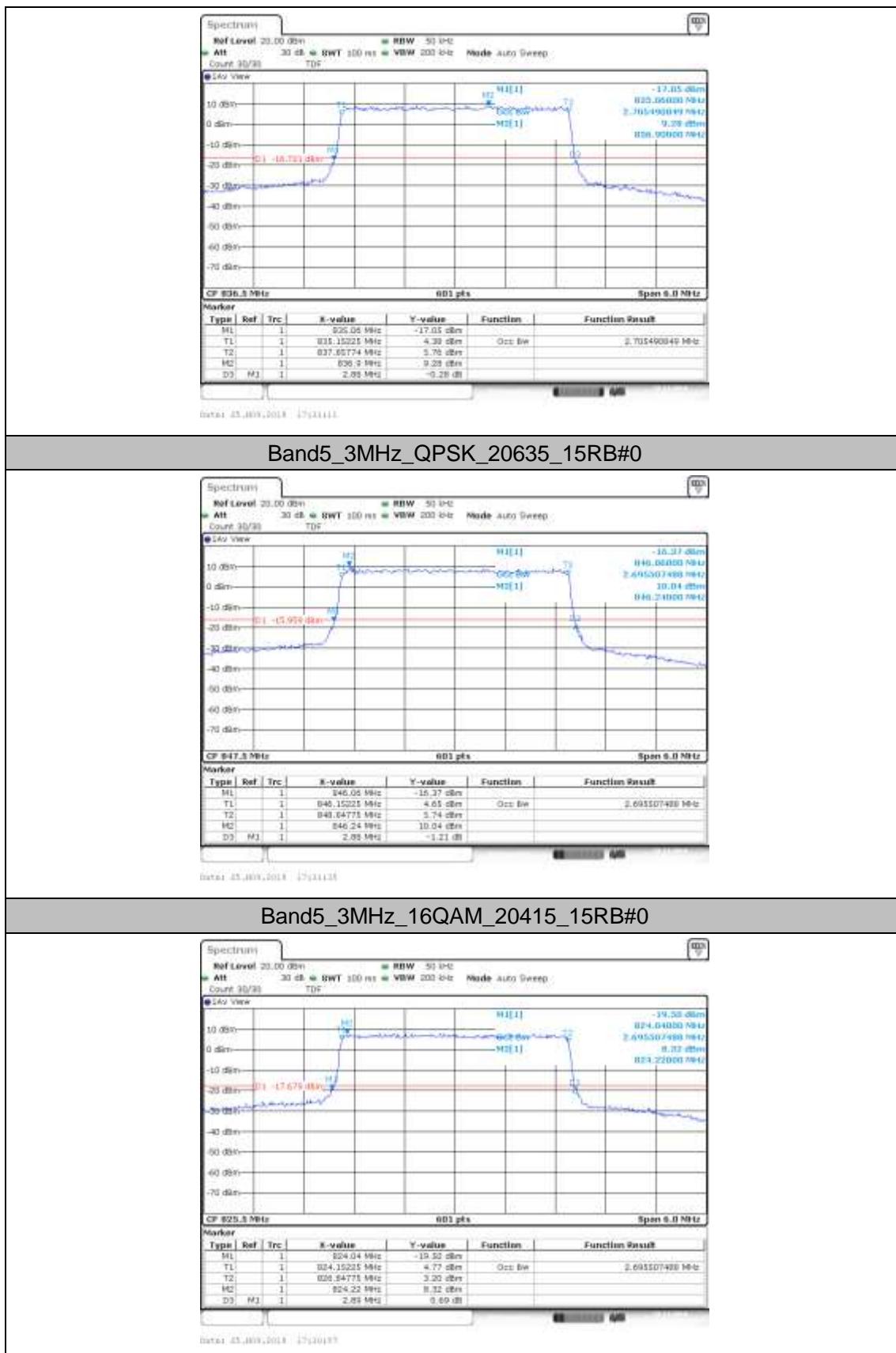
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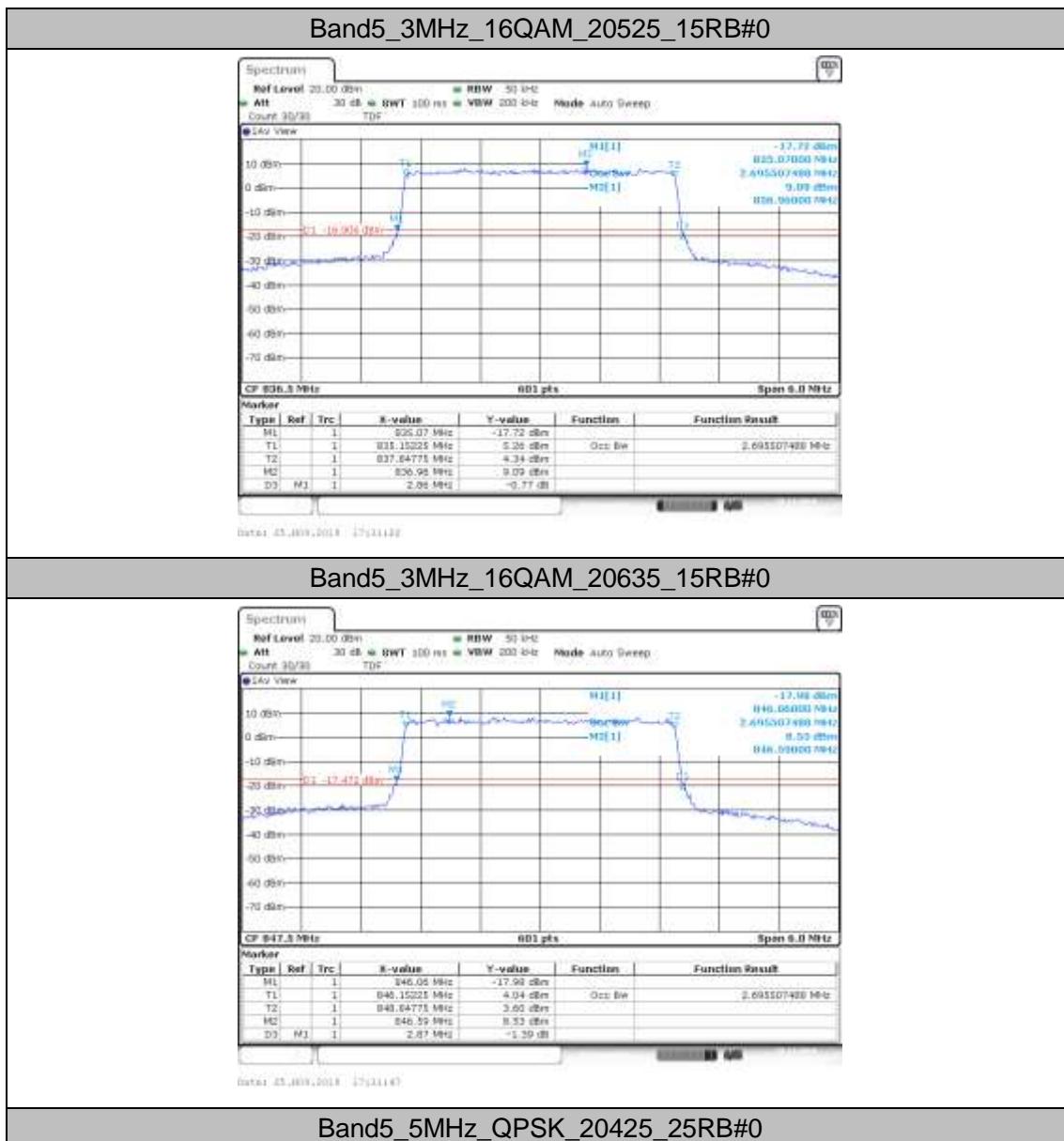
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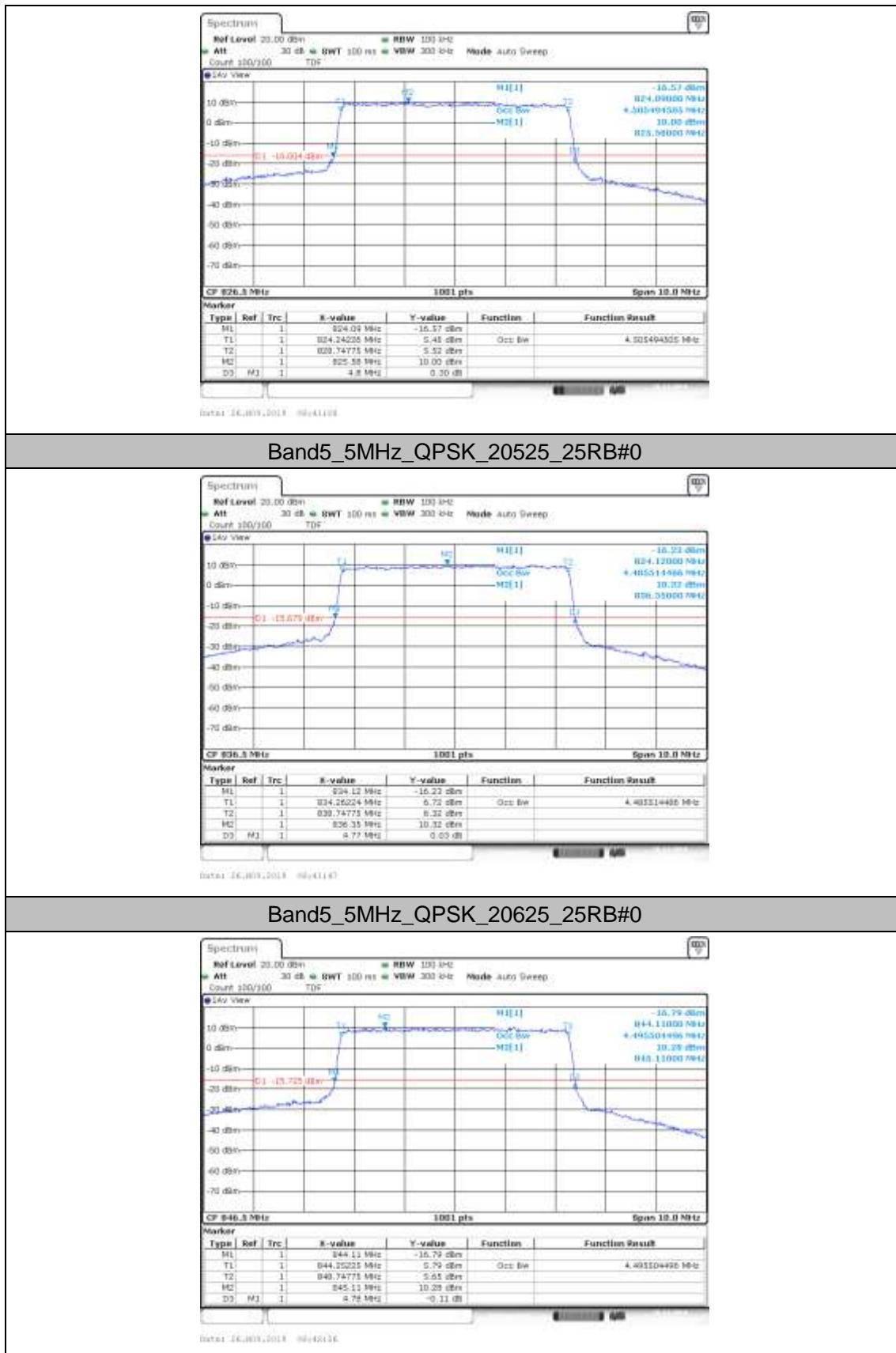
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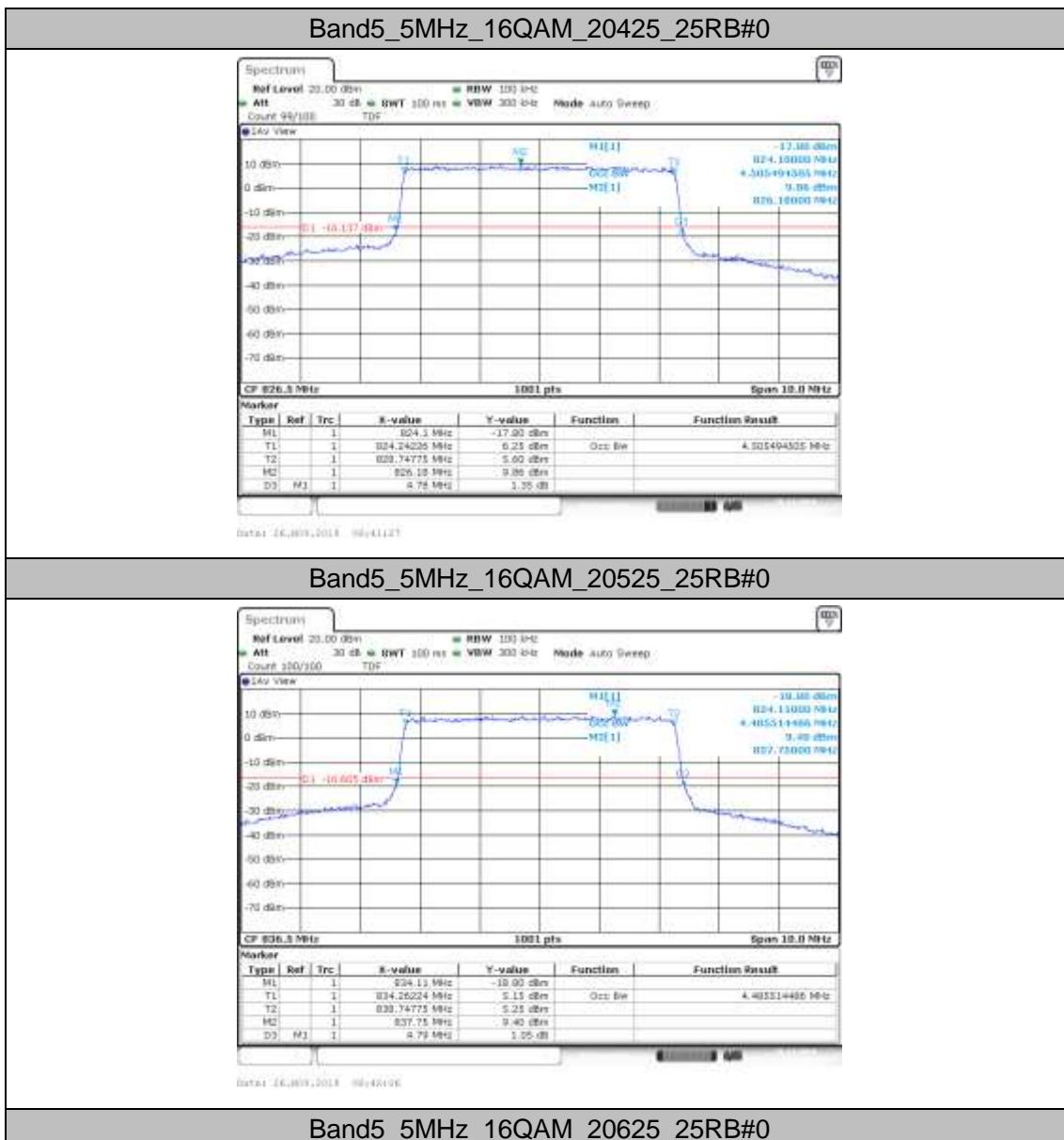
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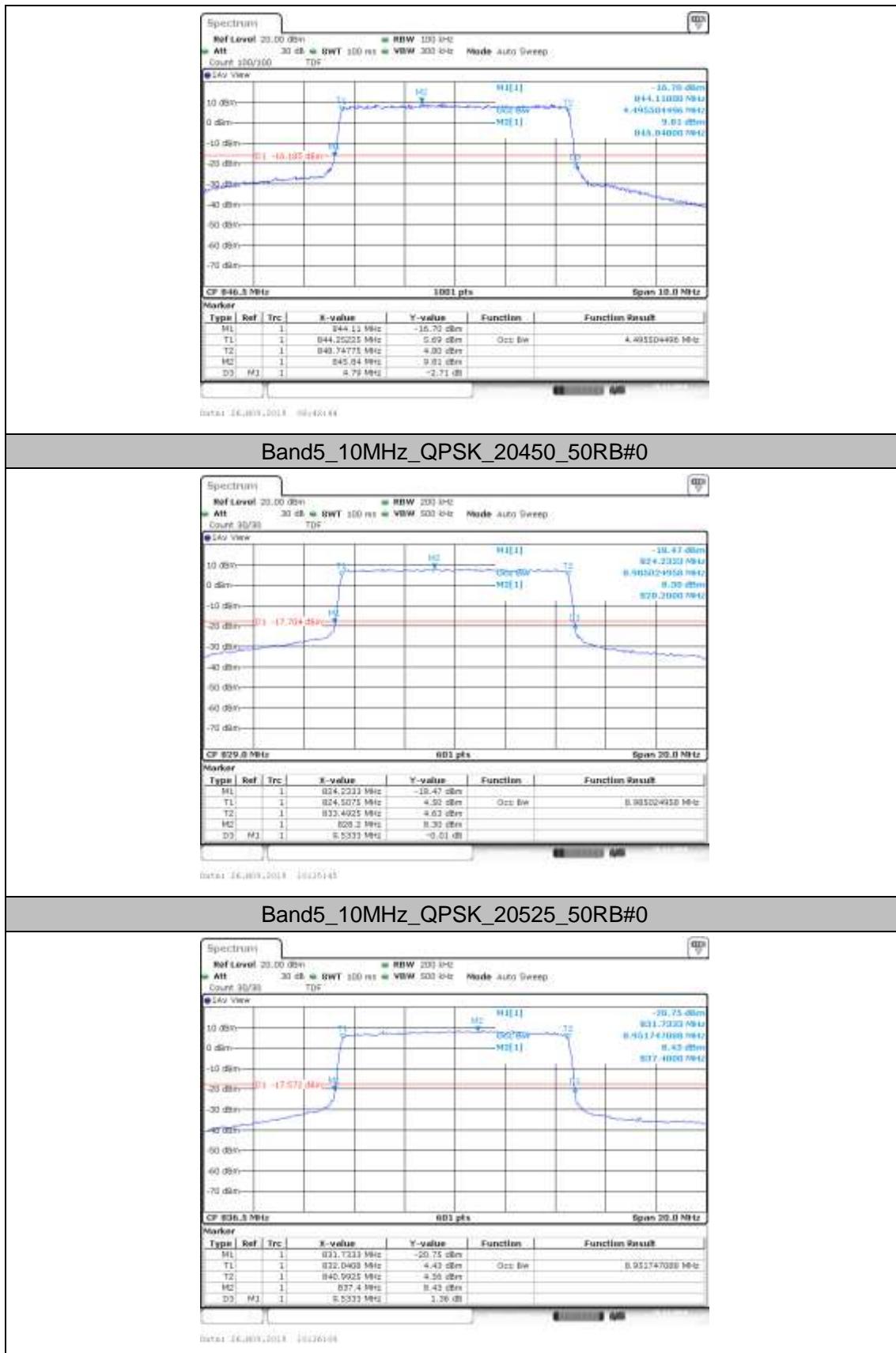
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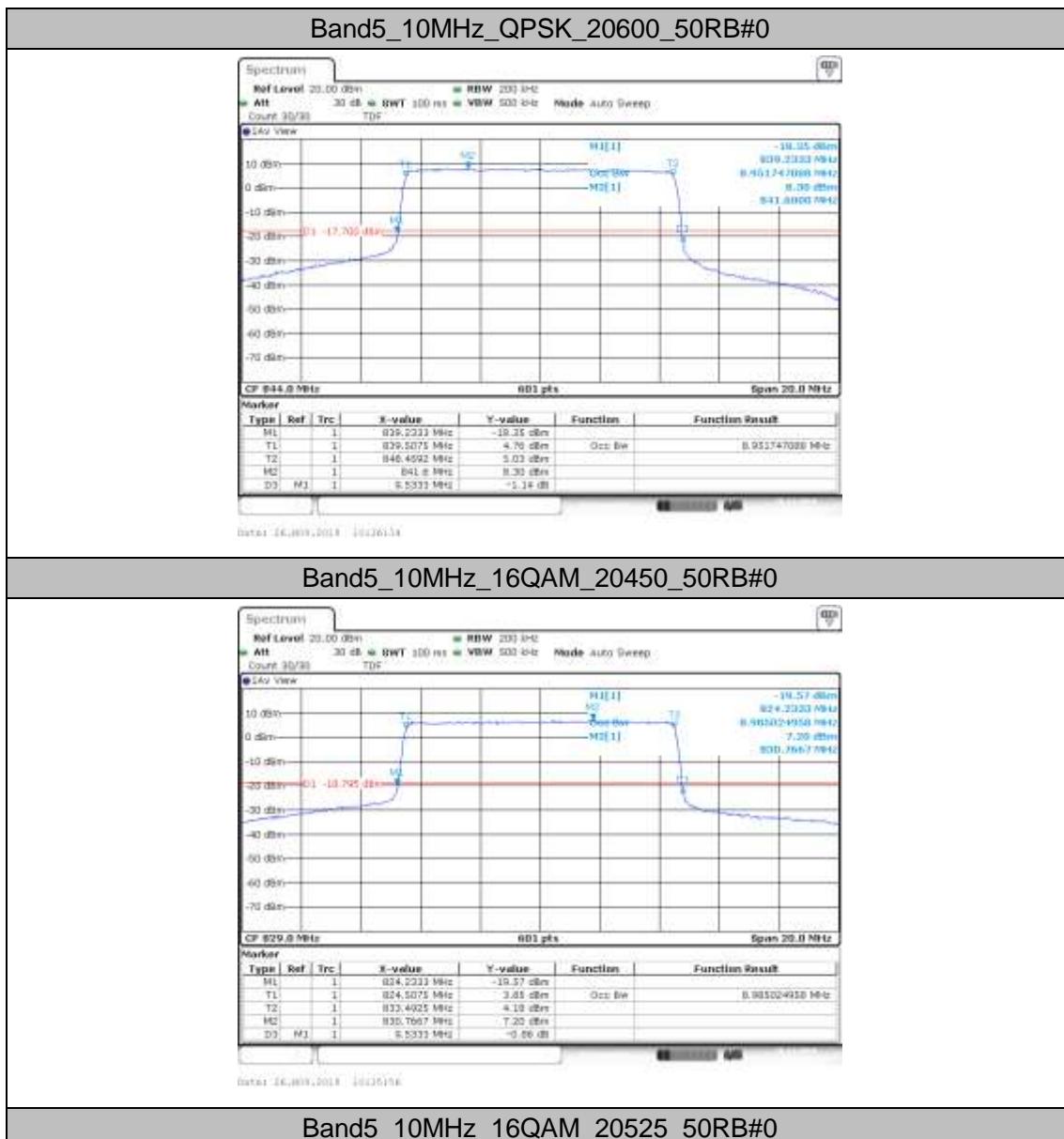
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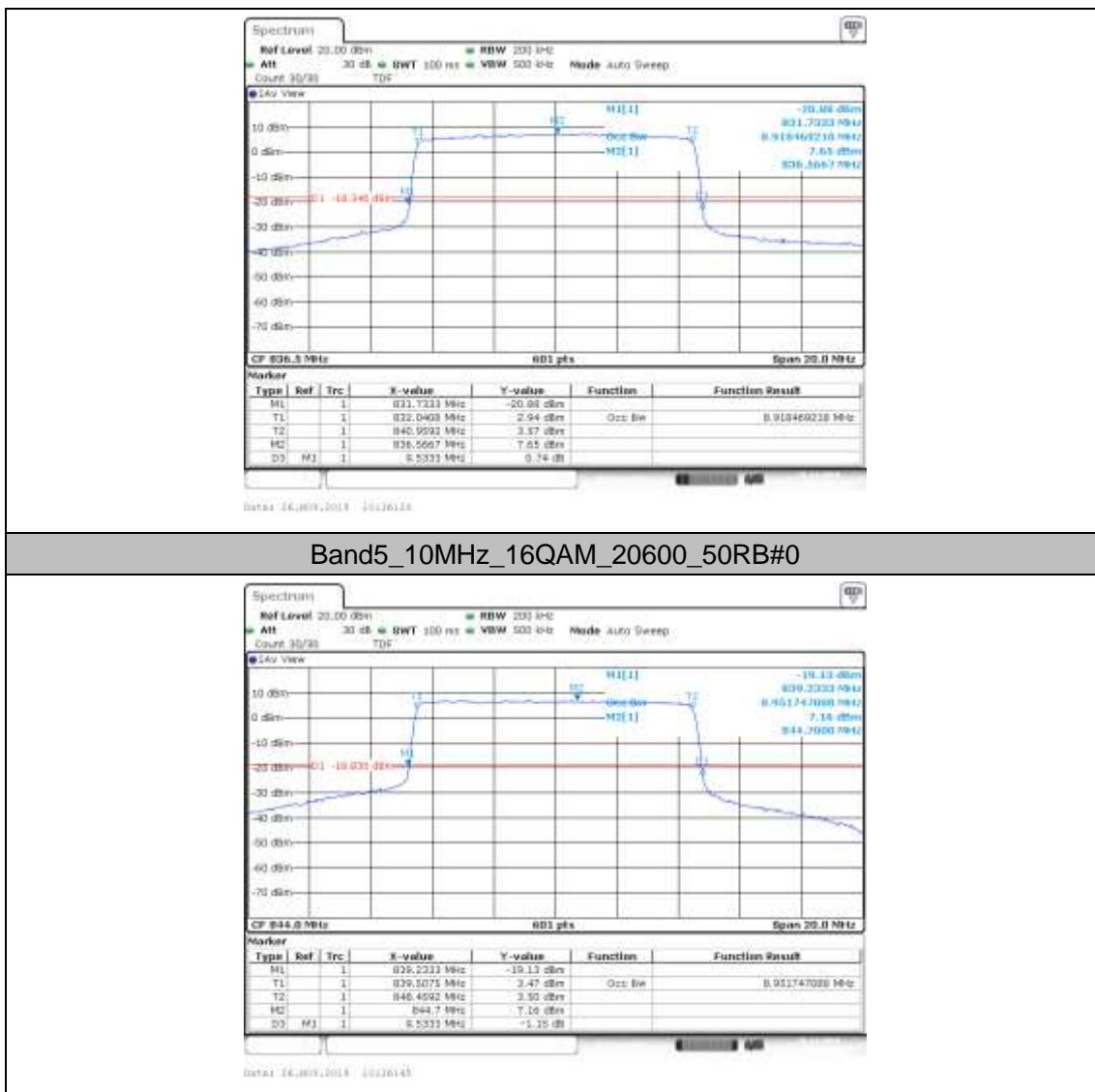
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## Appendix D: Band Edge

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-18.42	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	-38.13	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-44.53	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-22.39	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-39.44	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	-35.79	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-18.02	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-24.60	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-21.09	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	-39.24	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-44.40	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-22.84	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-38.60	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	-37.68	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-20.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-26.06	PASS
Band5	3MHz	QPSK	20415	1RB#0	-17.70	PASS
Band5	3MHz	QPSK	20415	1RB#8	-45.37	PASS
Band5	3MHz	QPSK	20415	1RB#14	-40.81	PASS
Band5	3MHz	QPSK	20415	15RB#0	-22.43	PASS
Band5	3MHz	QPSK	20635	1RB#0	-42.41	PASS
Band5	3MHz	QPSK	20635	1RB#8	-43.43	PASS
Band5	3MHz	QPSK	20635	1RB#14	-17.67	PASS
Band5	3MHz	QPSK	20635	15RB#0	-24.67	PASS
Band5	3MHz	16QAM	20415	1RB#0	-17.14	PASS
Band5	3MHz	16QAM	20415	1RB#8	-44.79	PASS
Band5	3MHz	16QAM	20415	1RB#14	-41.29	PASS
Band5	3MHz	16QAM	20415	15RB#0	-21.61	PASS
Band5	3MHz	16QAM	20635	1RB#0	-42.20	PASS
Band5	3MHz	16QAM	20635	1RB#8	-44.98	PASS
Band5	3MHz	16QAM	20635	1RB#14	-17.74	PASS
Band5	3MHz	16QAM	20635	15RB#0	-25.16	PASS
Band5	5MHz	QPSK	20425	1RB#0	-17.01	PASS
Band5	5MHz	QPSK	20425	1RB#12	-44.75	PASS

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Band5	5MHz	QPSK	20425	1RB#24	-49.23	PASS
Band5	5MHz	QPSK	20425	25RB#0	-21.33	PASS
Band5	5MHz	QPSK	20625	1RB#0	-50.46	PASS
Band5	5MHz	QPSK	20625	1RB#12	-45.53	PASS
Band5	5MHz	QPSK	20625	1RB#24	-17.30	PASS
Band5	5MHz	QPSK	20625	25RB#0	-23.96	PASS
Band5	5MHz	16QAM	20425	1RB#0	-20.34	PASS
Band5	5MHz	16QAM	20425	1RB#12	-45.27	PASS
Band5	5MHz	16QAM	20425	1RB#24	-50.54	PASS
Band5	5MHz	16QAM	20425	25RB#0	-22.10	PASS
Band5	5MHz	16QAM	20625	1RB#0	-50.65	PASS
Band5	5MHz	16QAM	20625	1RB#12	-45.33	PASS
Band5	5MHz	16QAM	20625	1RB#24	-20.02	PASS
Band5	5MHz	16QAM	20625	25RB#0	-25.37	PASS
Band5	10MHz	QPSK	20450	1RB#0	-28.57	PASS
Band5	10MHz	QPSK	20450	1RB#24	-48.46	PASS
Band5	10MHz	QPSK	20450	1RB#49	-46.52	PASS
Band5	10MHz	QPSK	20450	50RB#0	-24.00	PASS
Band5	10MHz	QPSK	20600	1RB#0	-47.54	PASS
Band5	10MHz	QPSK	20600	1RB#24	-48.38	PASS
Band5	10MHz	QPSK	20600	1RB#49	-28.04	PASS
Band5	10MHz	QPSK	20600	50RB#0	-28.36	PASS
Band5	10MHz	16QAM	20450	1RB#0	-29.06	PASS
Band5	10MHz	16QAM	20450	1RB#24	-48.76	PASS
Band5	10MHz	16QAM	20450	1RB#49	-47.12	PASS
Band5	10MHz	16QAM	20450	50RB#0	-25.51	PASS
Band5	10MHz	16QAM	20600	1RB#0	-48.56	PASS
Band5	10MHz	16QAM	20600	1RB#24	-48.26	PASS
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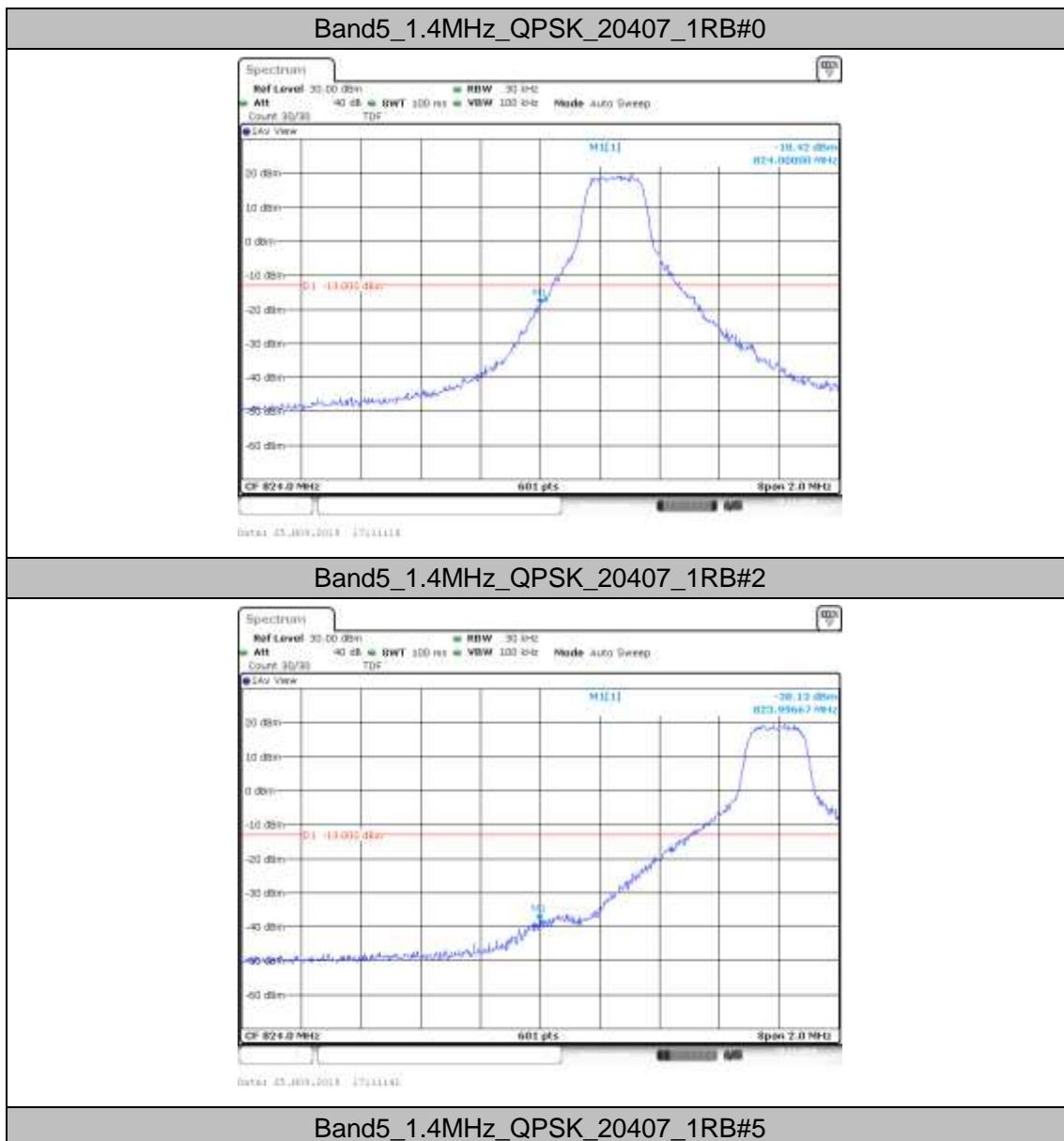
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## Test Graphs



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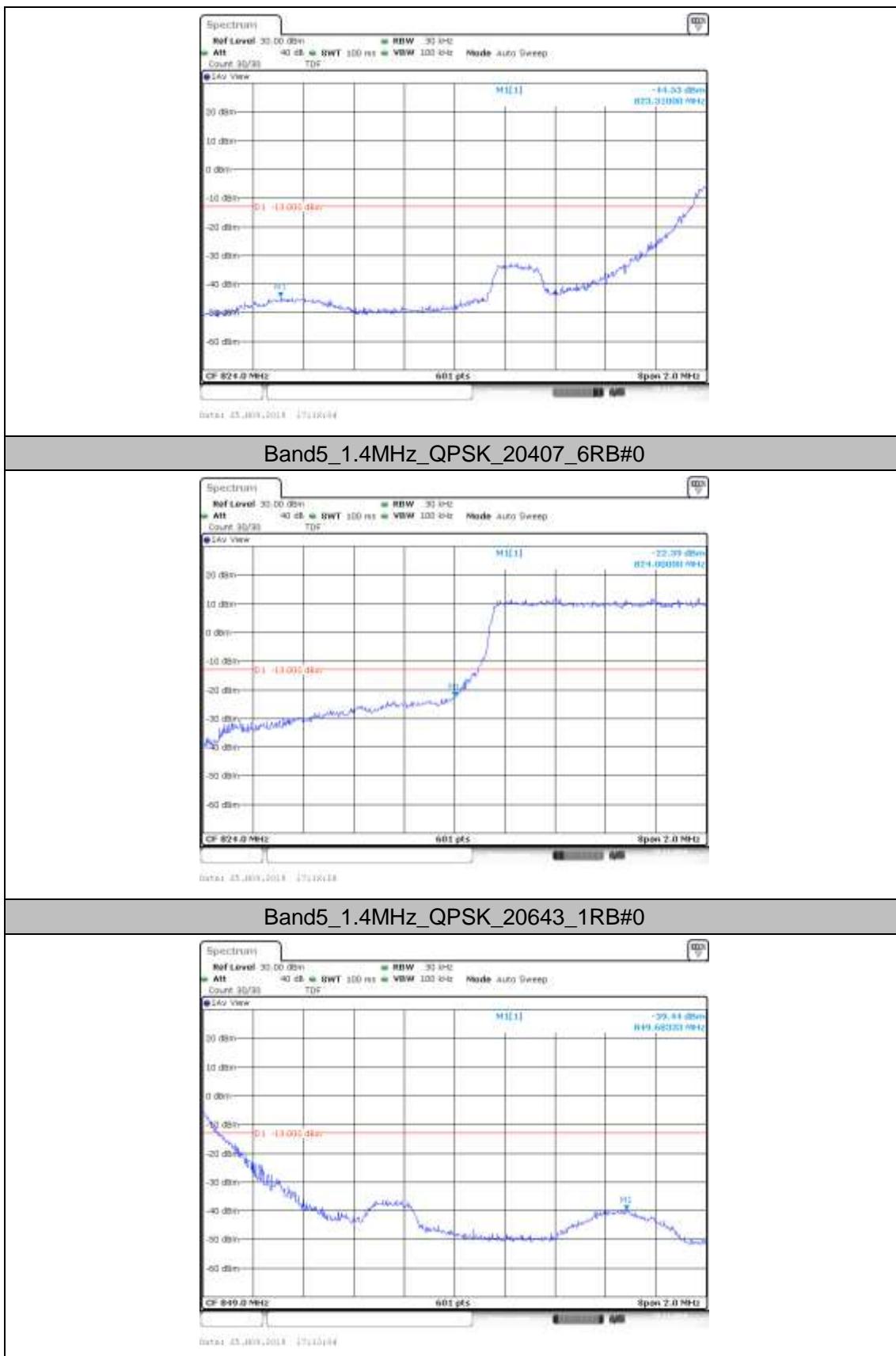
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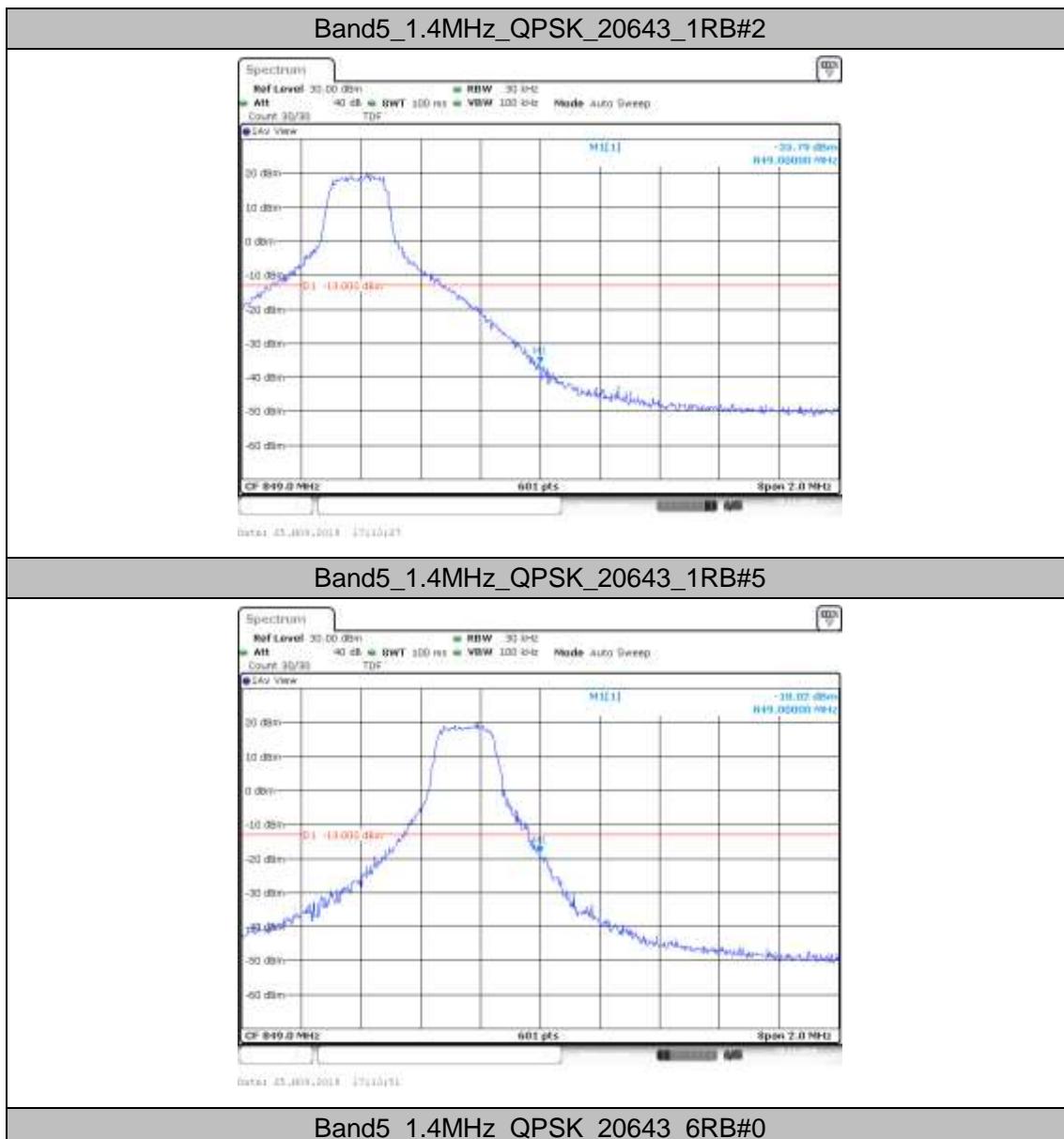
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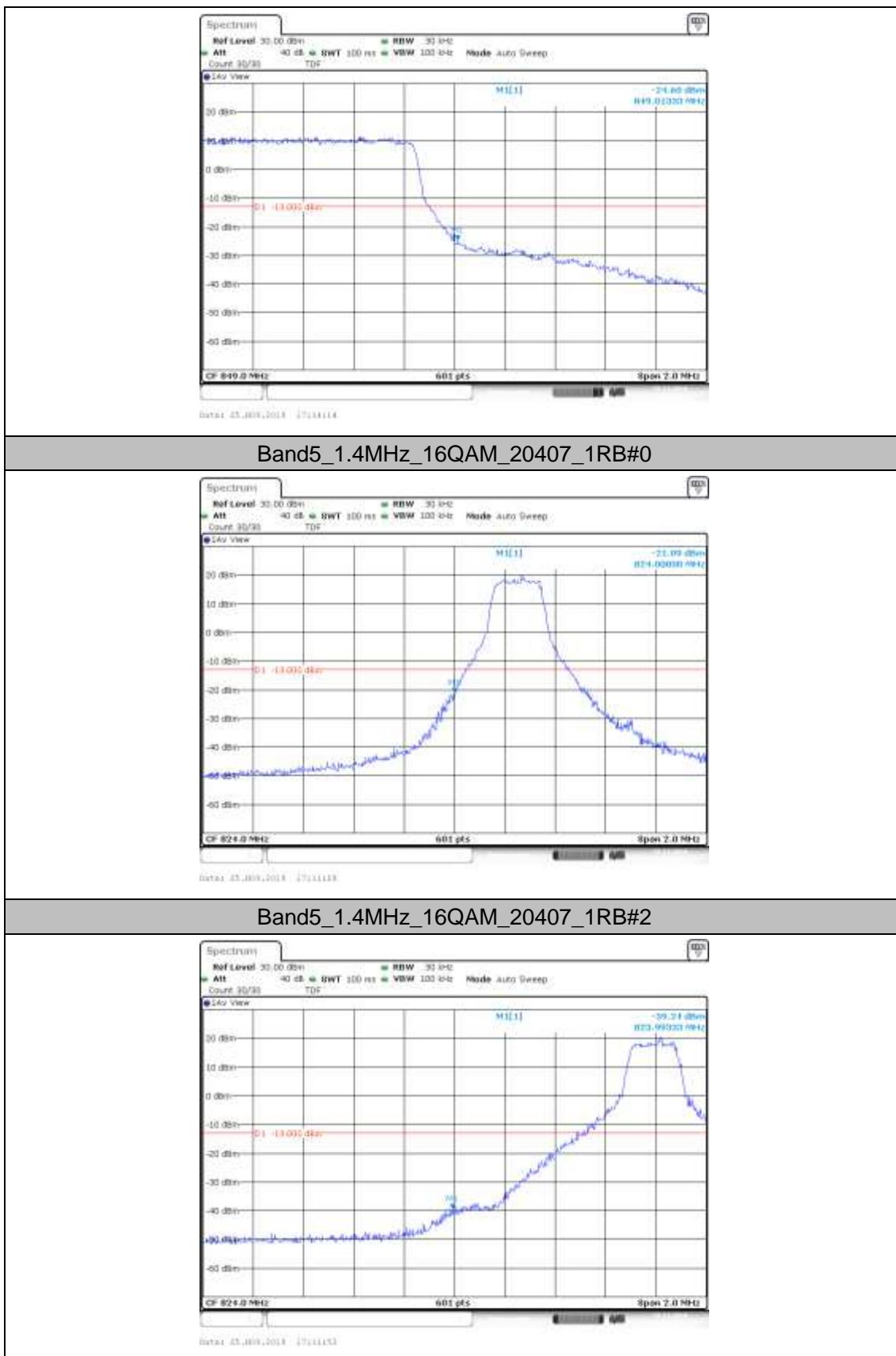
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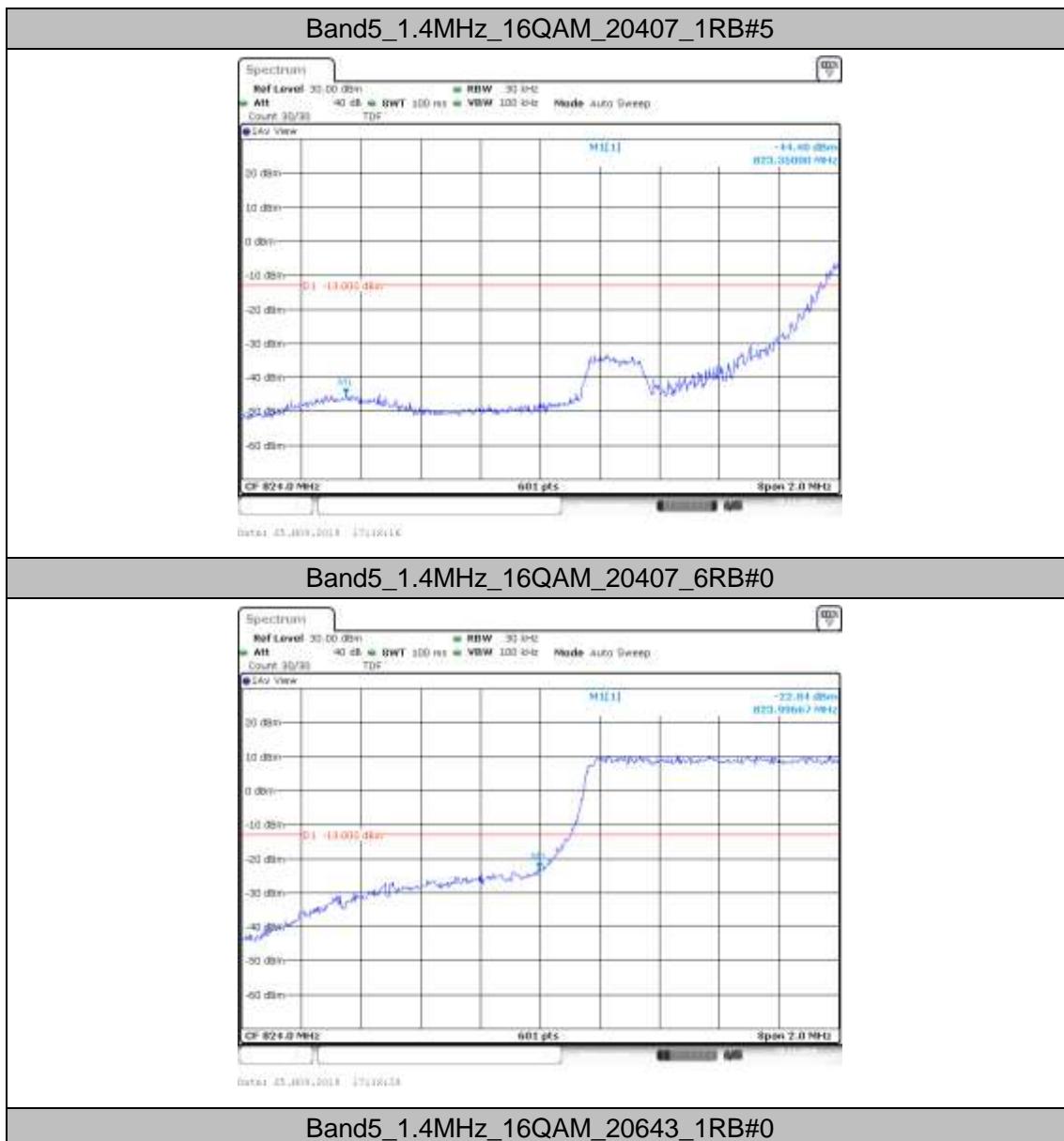
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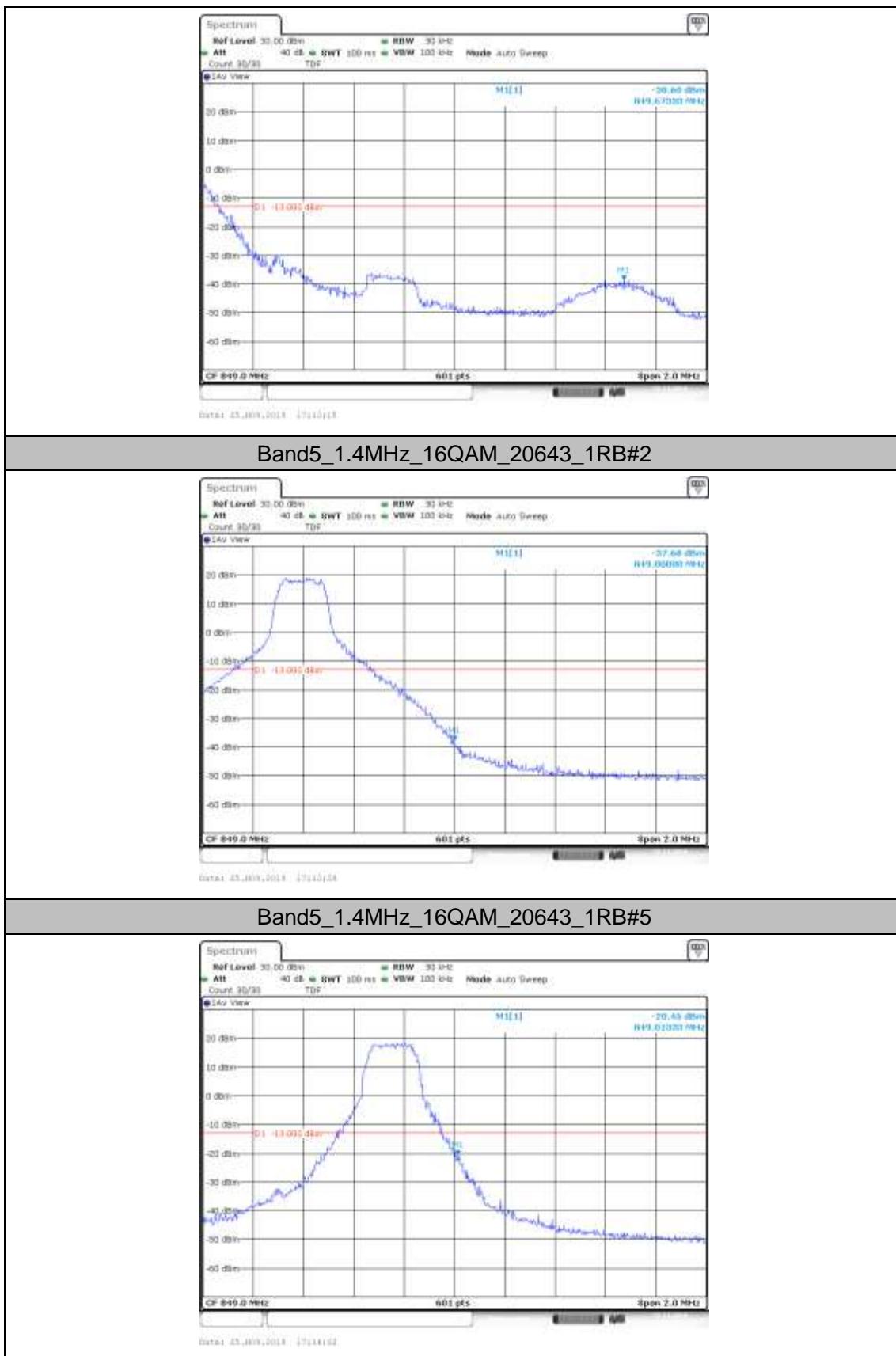
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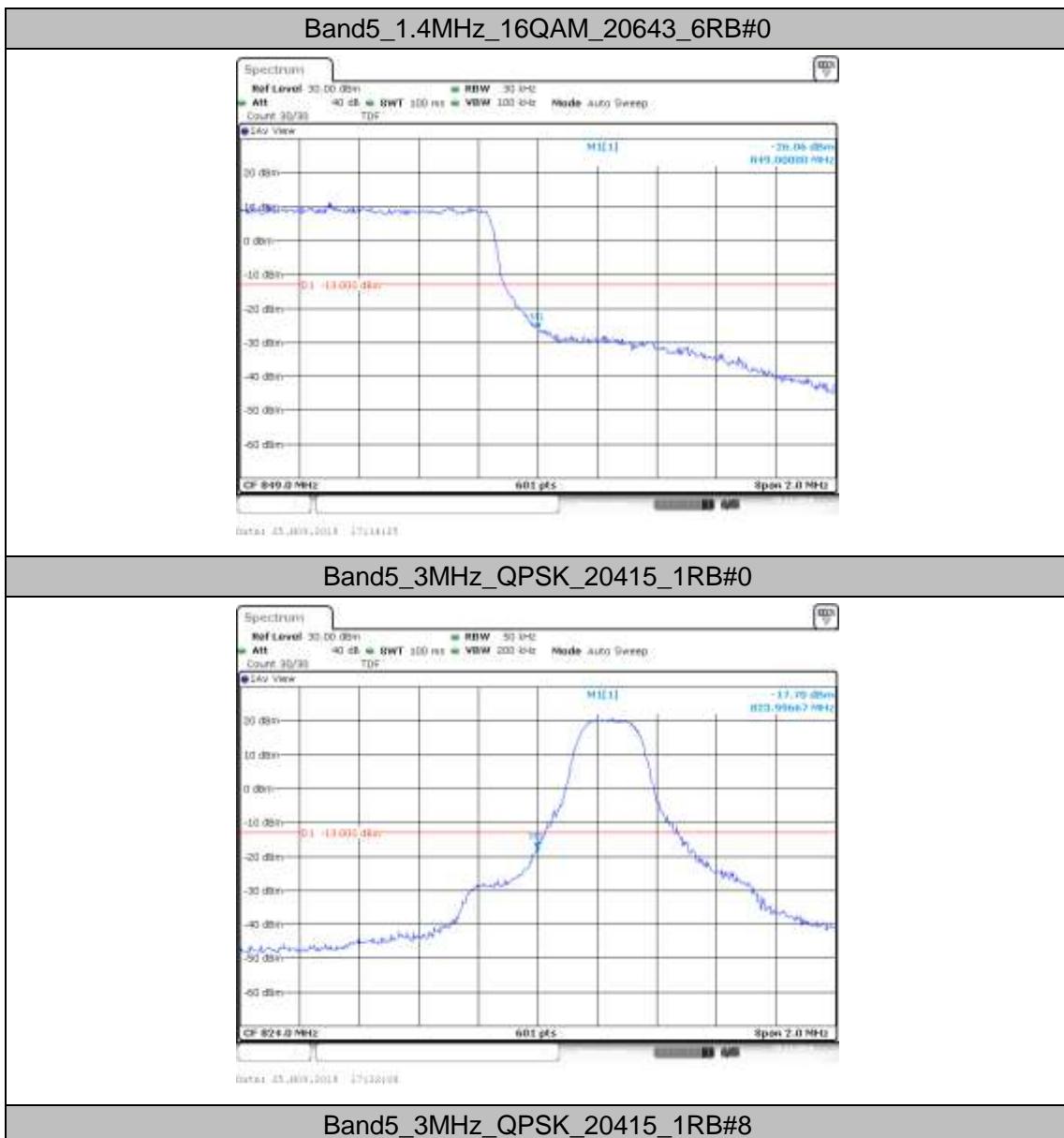
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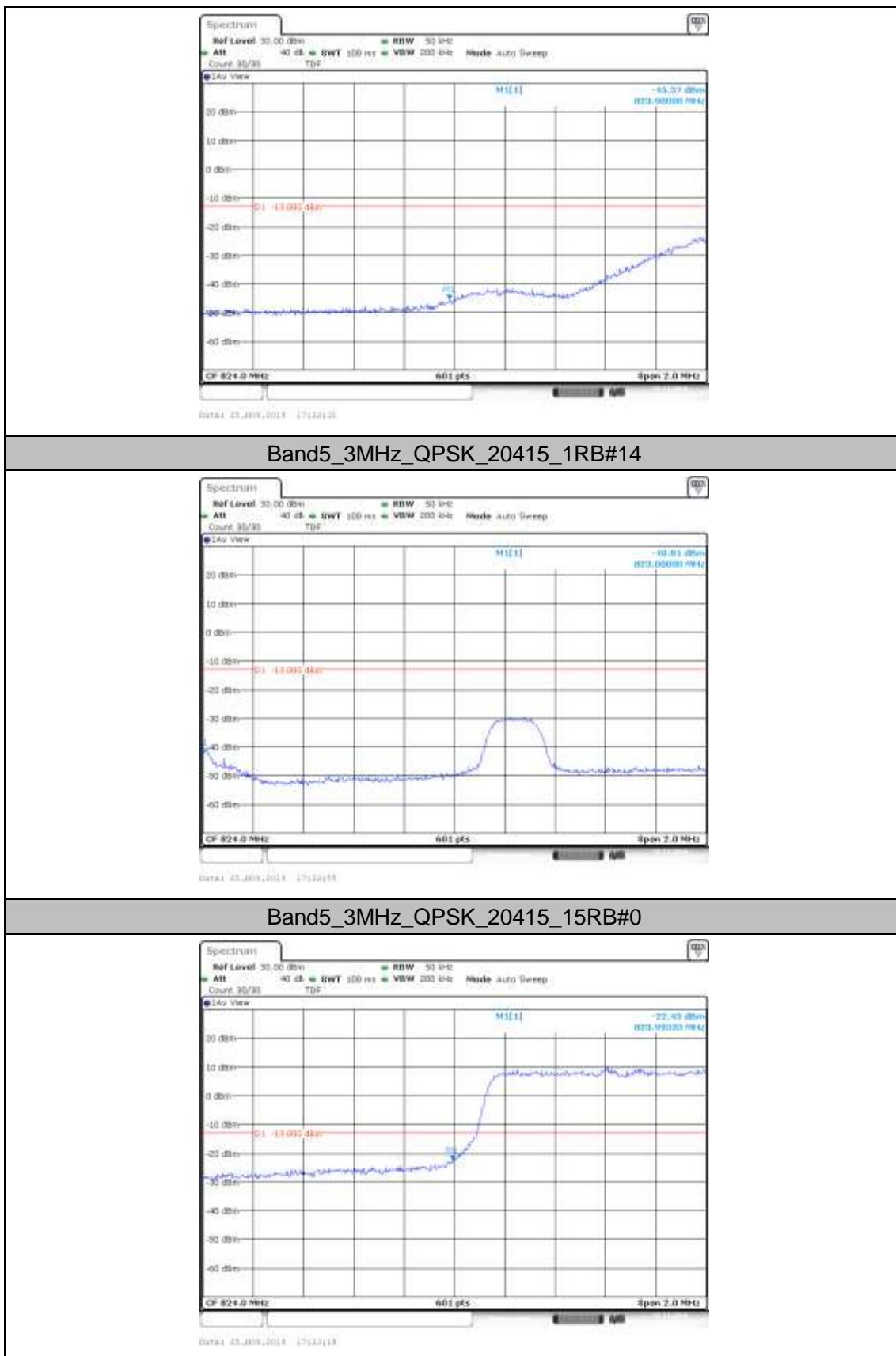
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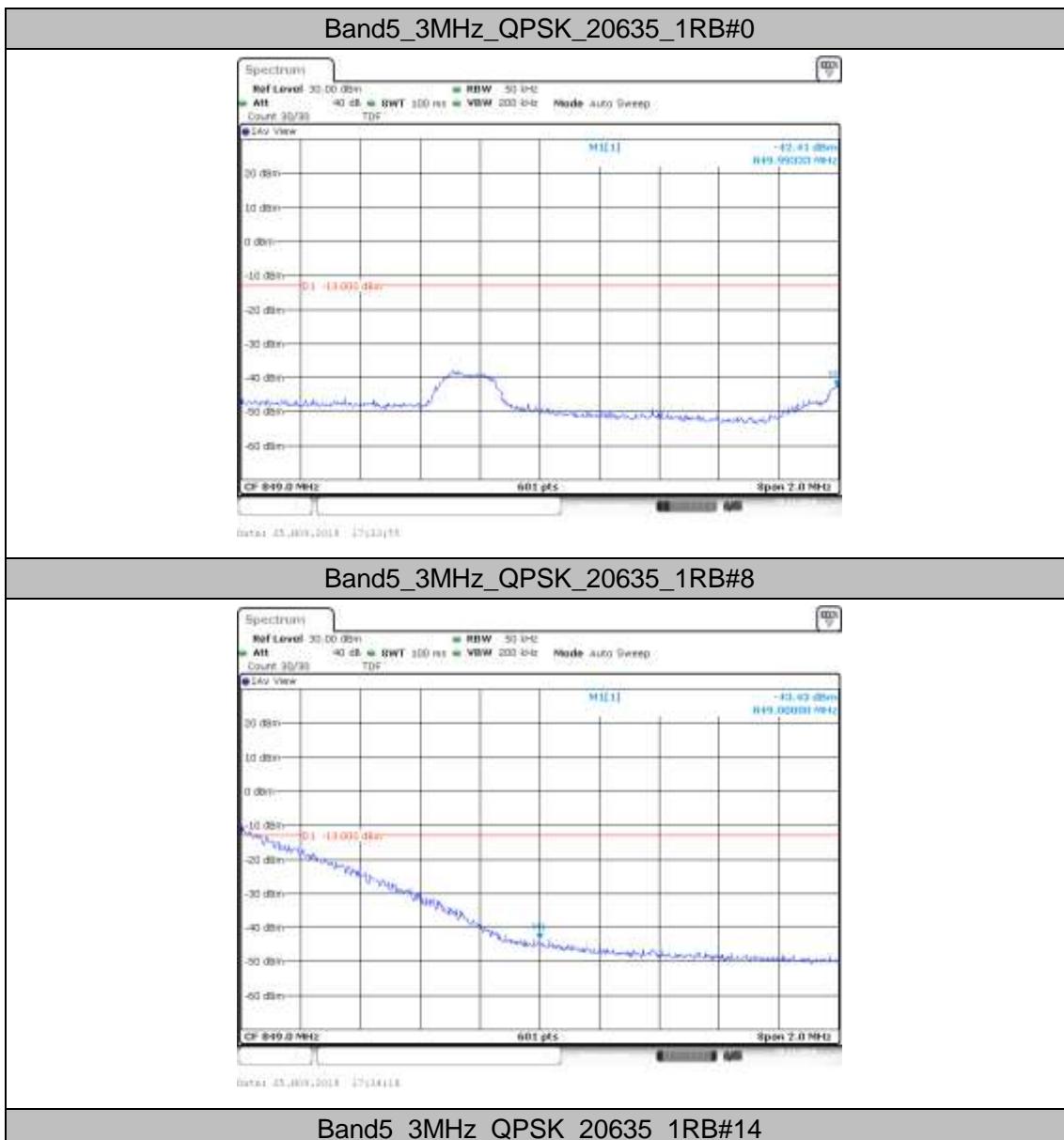
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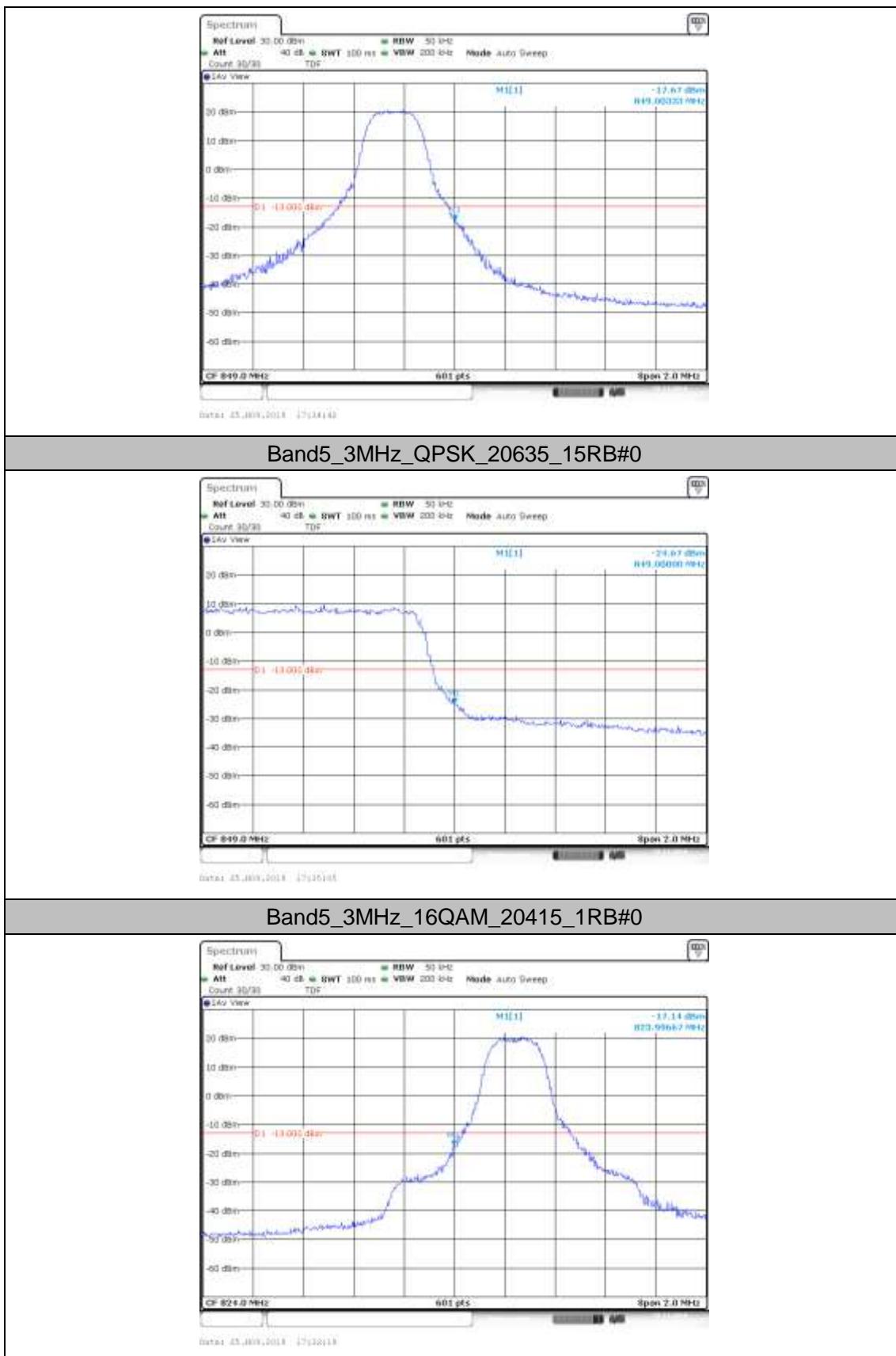
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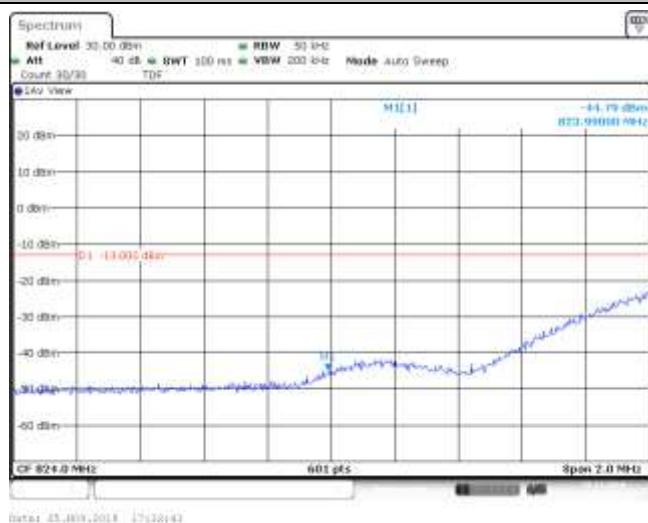
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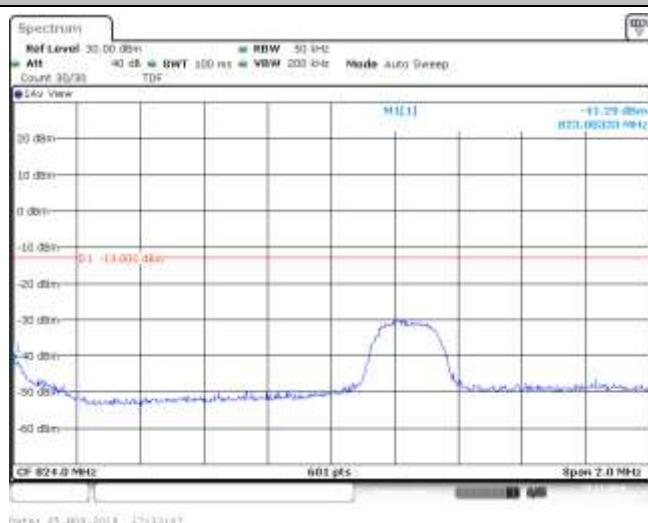
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## Band5\_3MHz\_16QAM\_20415\_1RB#8



## Band5\_3MHz\_16QAM\_20415\_1RB#14



## Band5\_3MHz\_16QAM\_20415\_15RB#0

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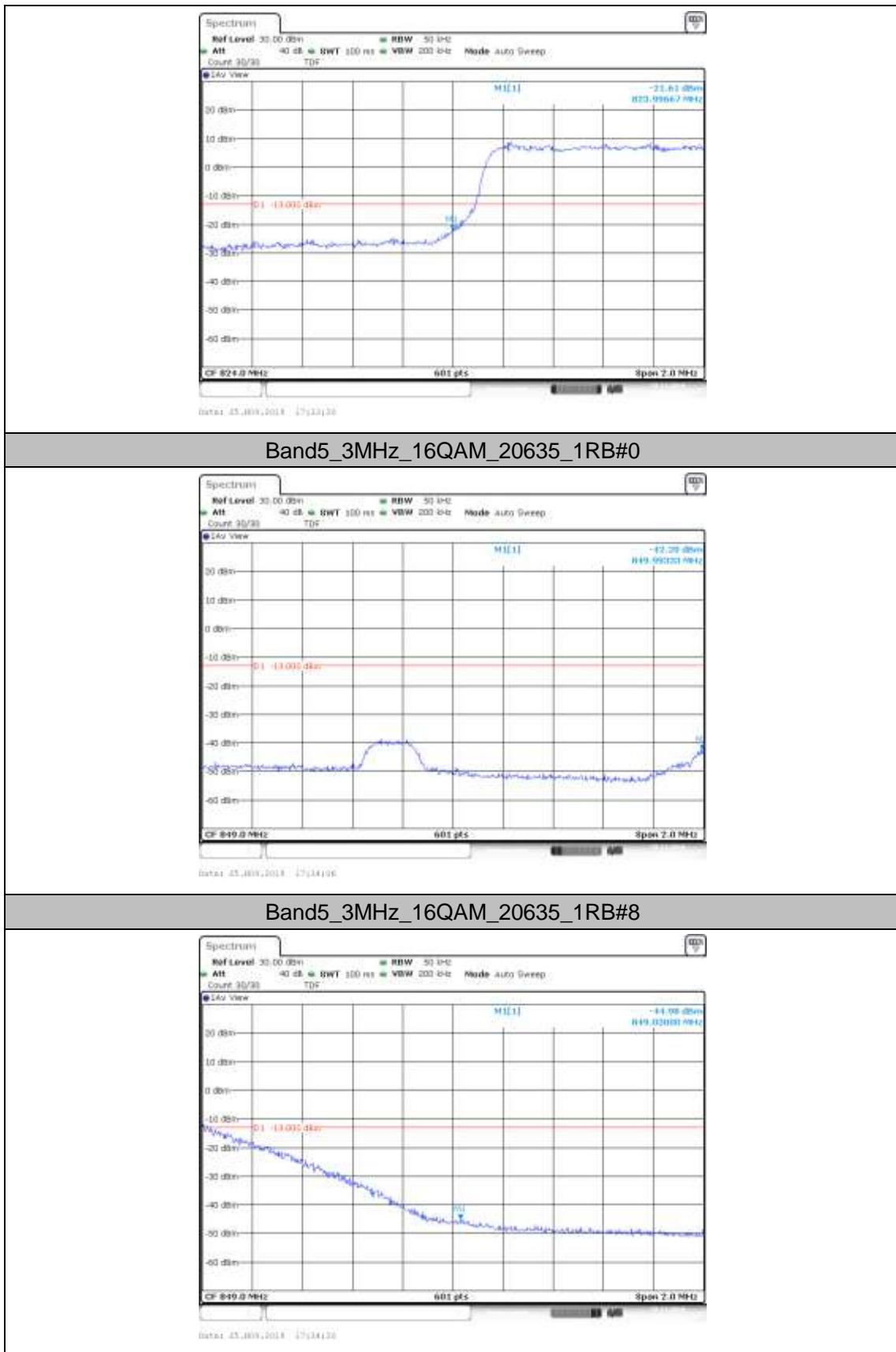
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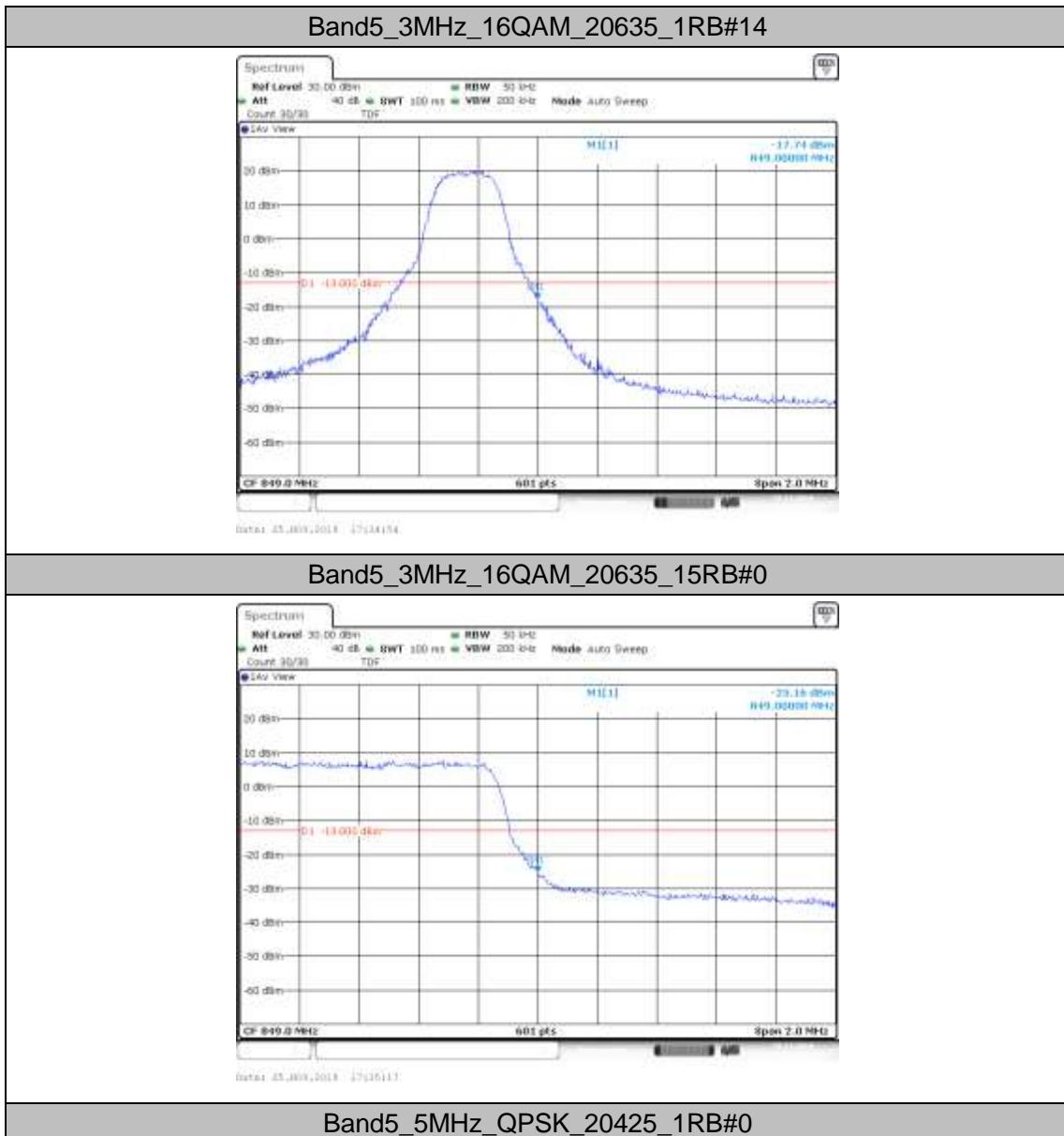
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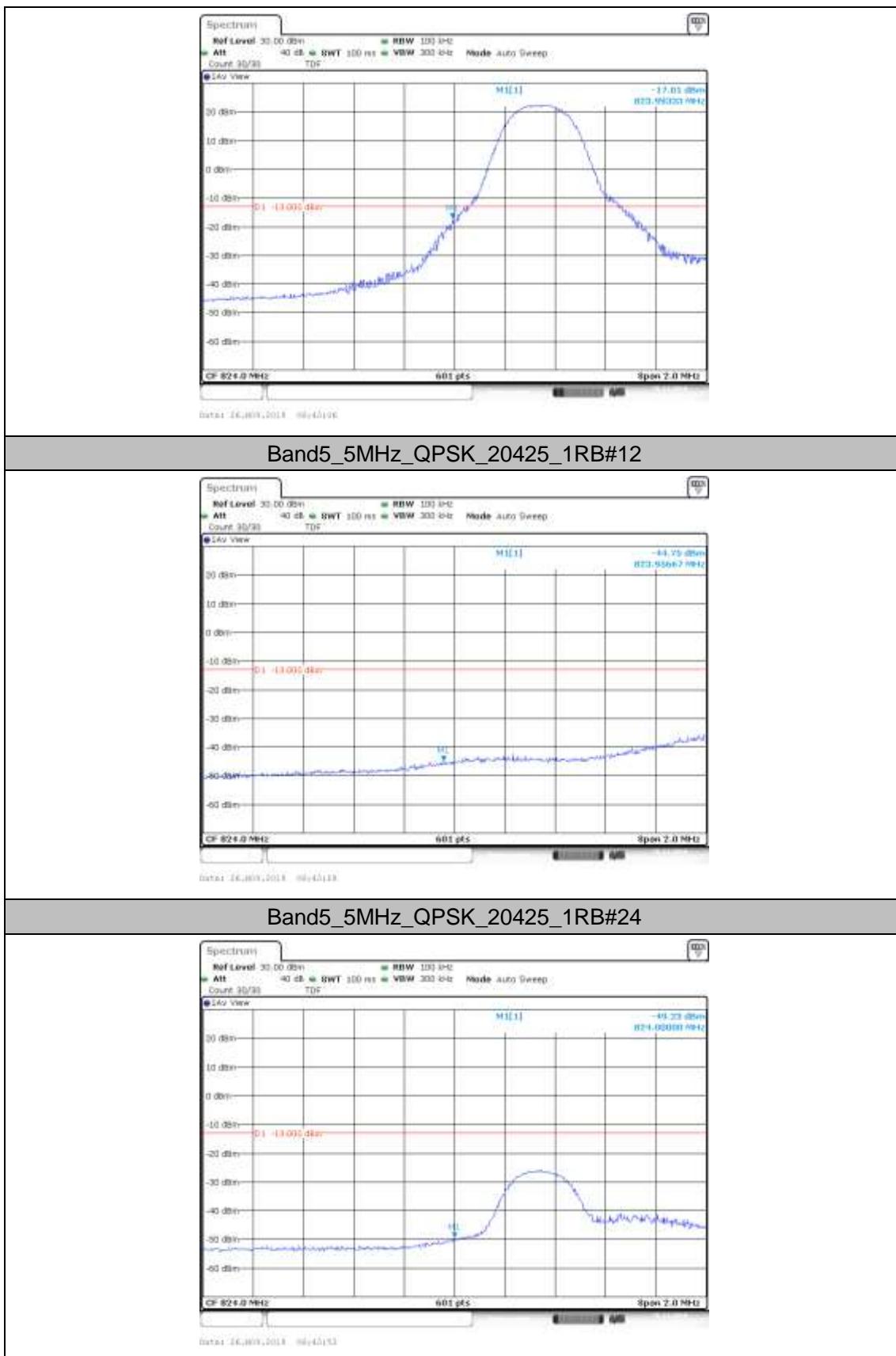
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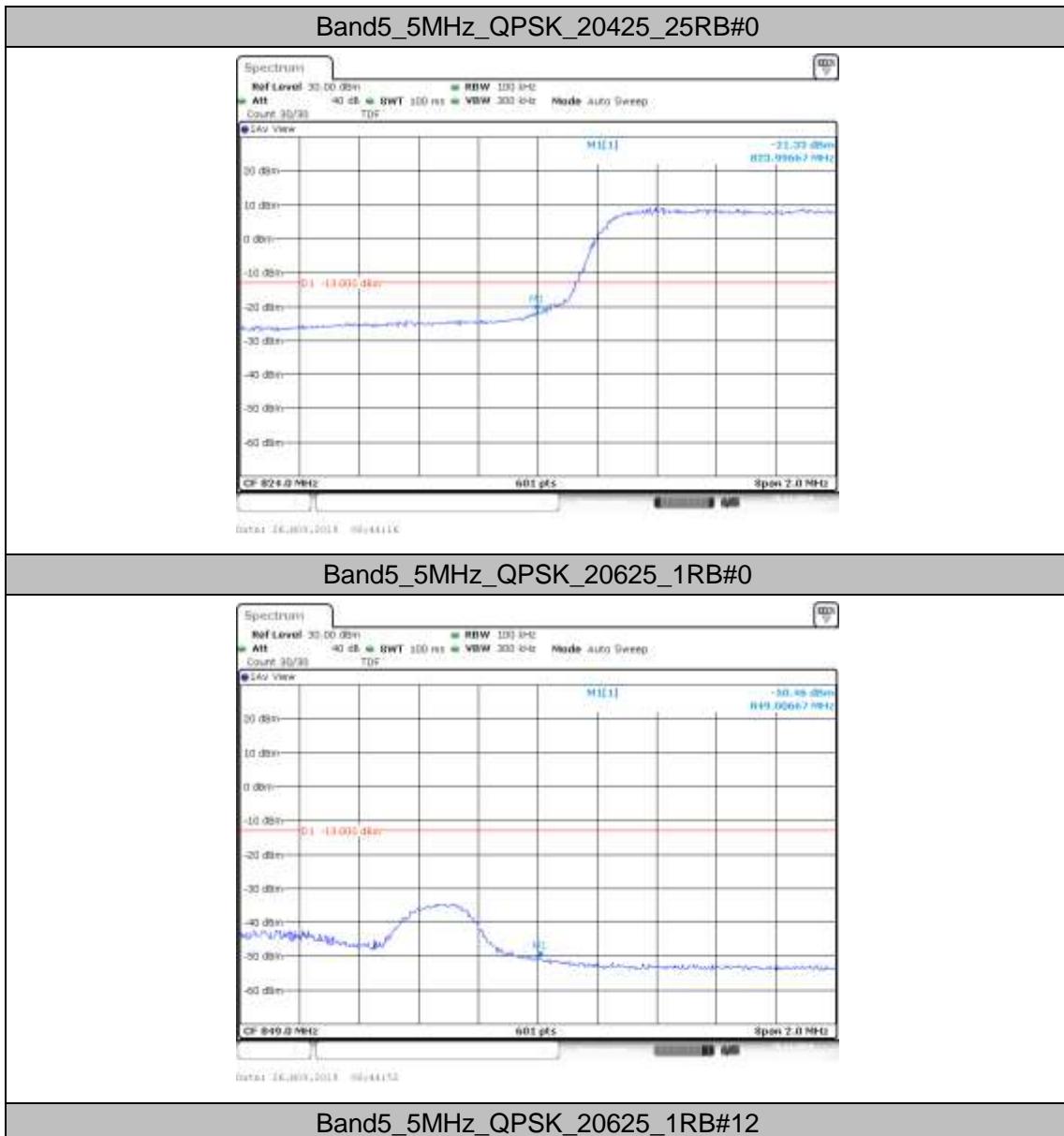
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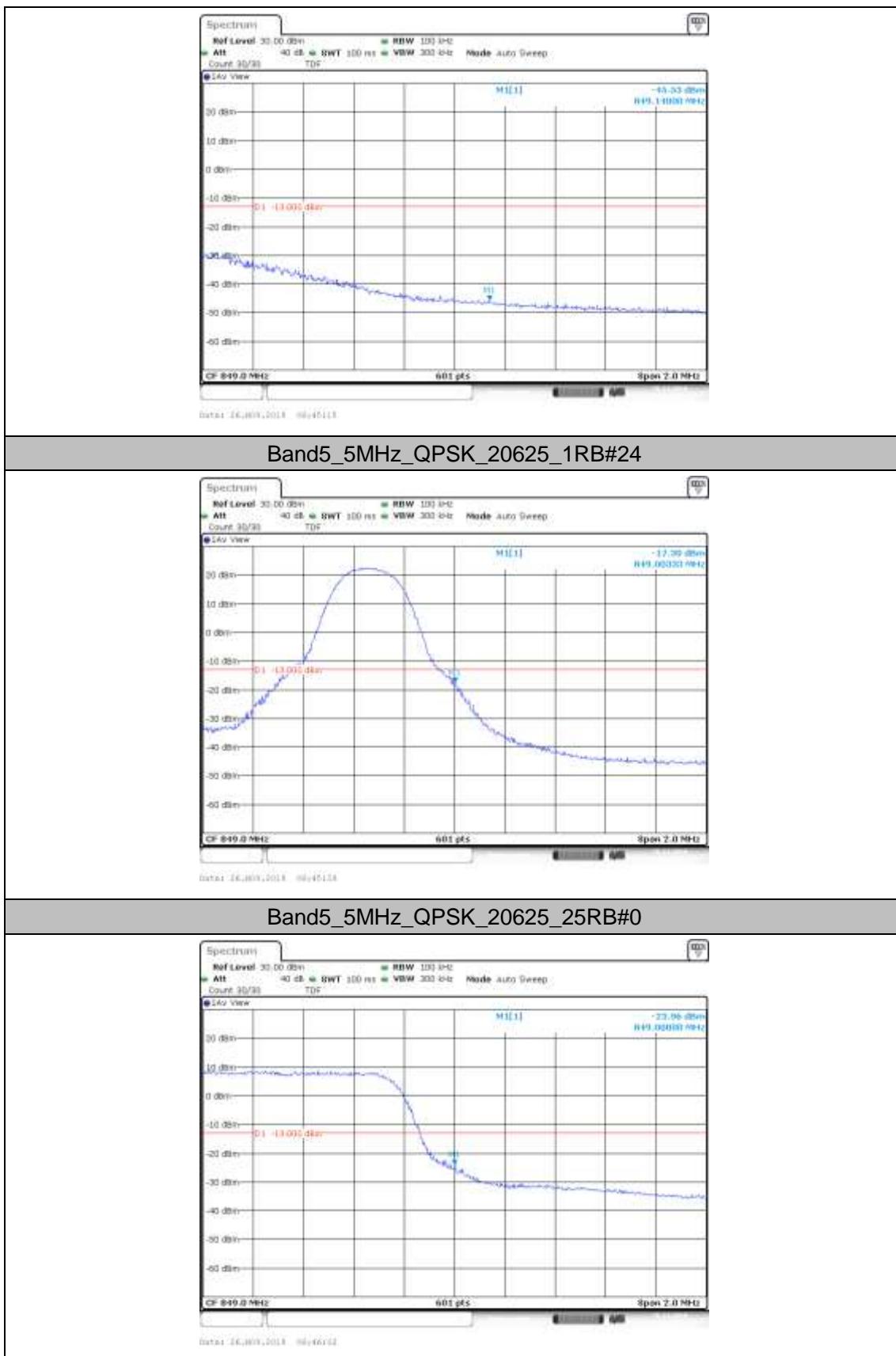
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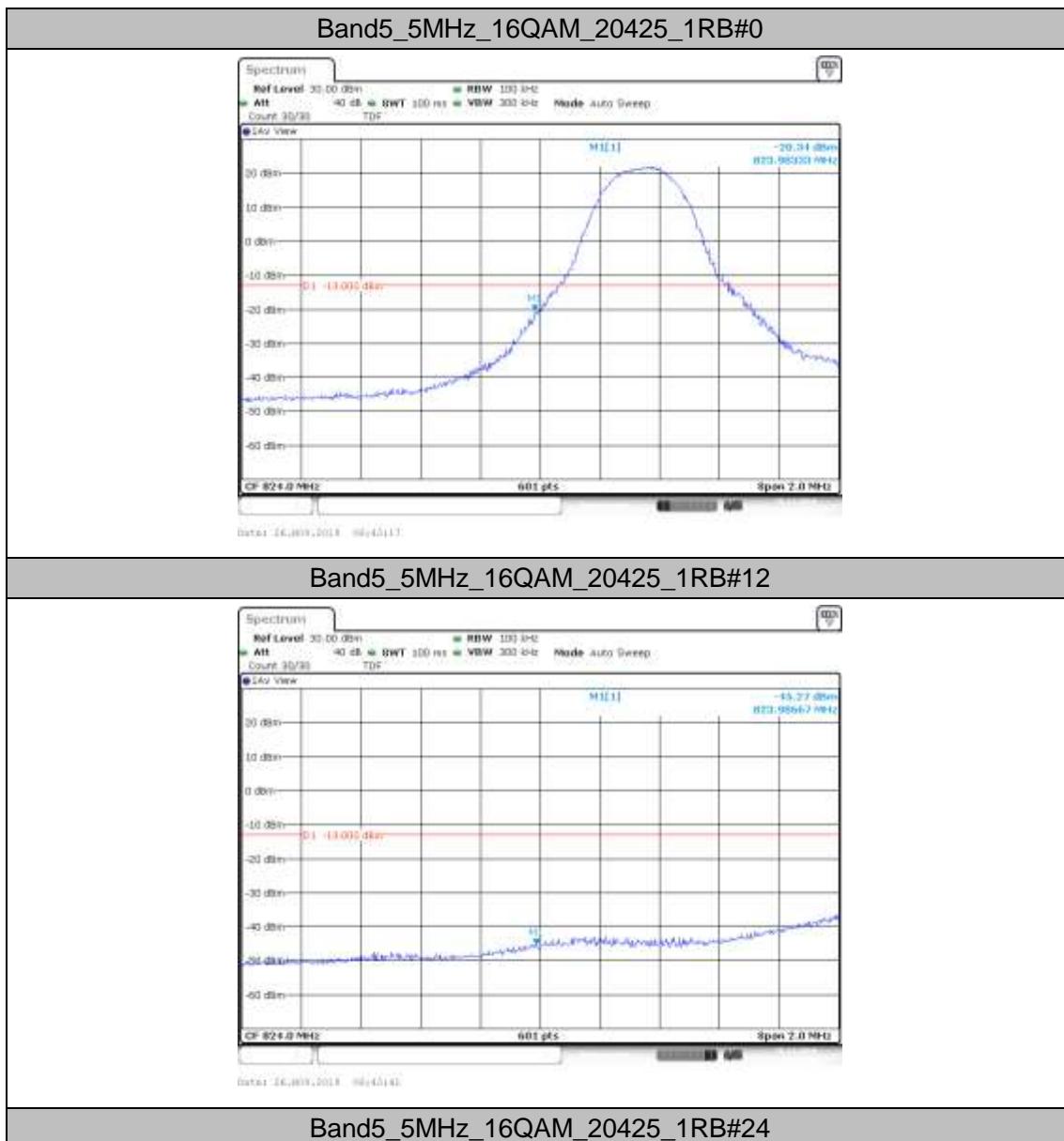
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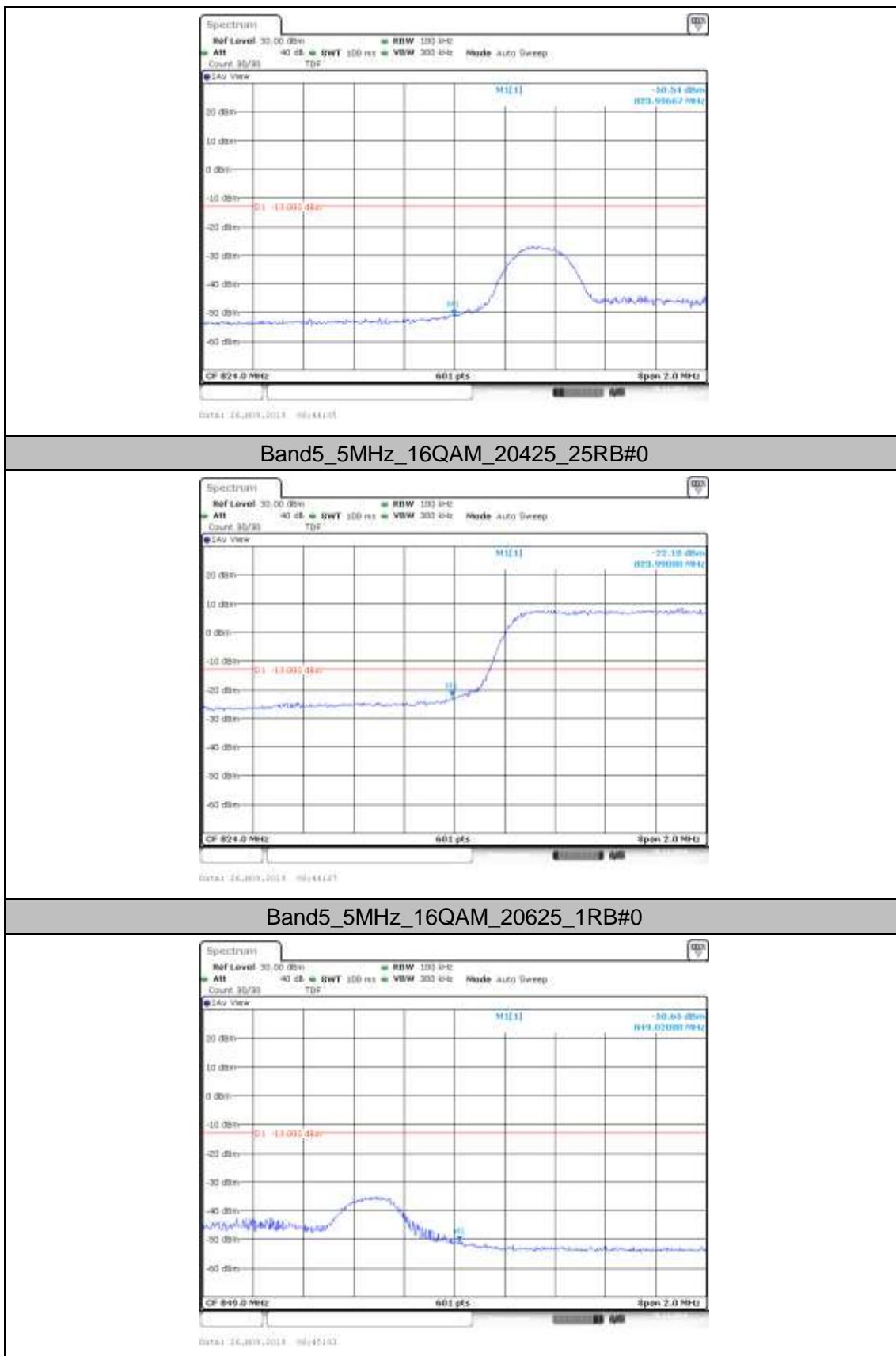
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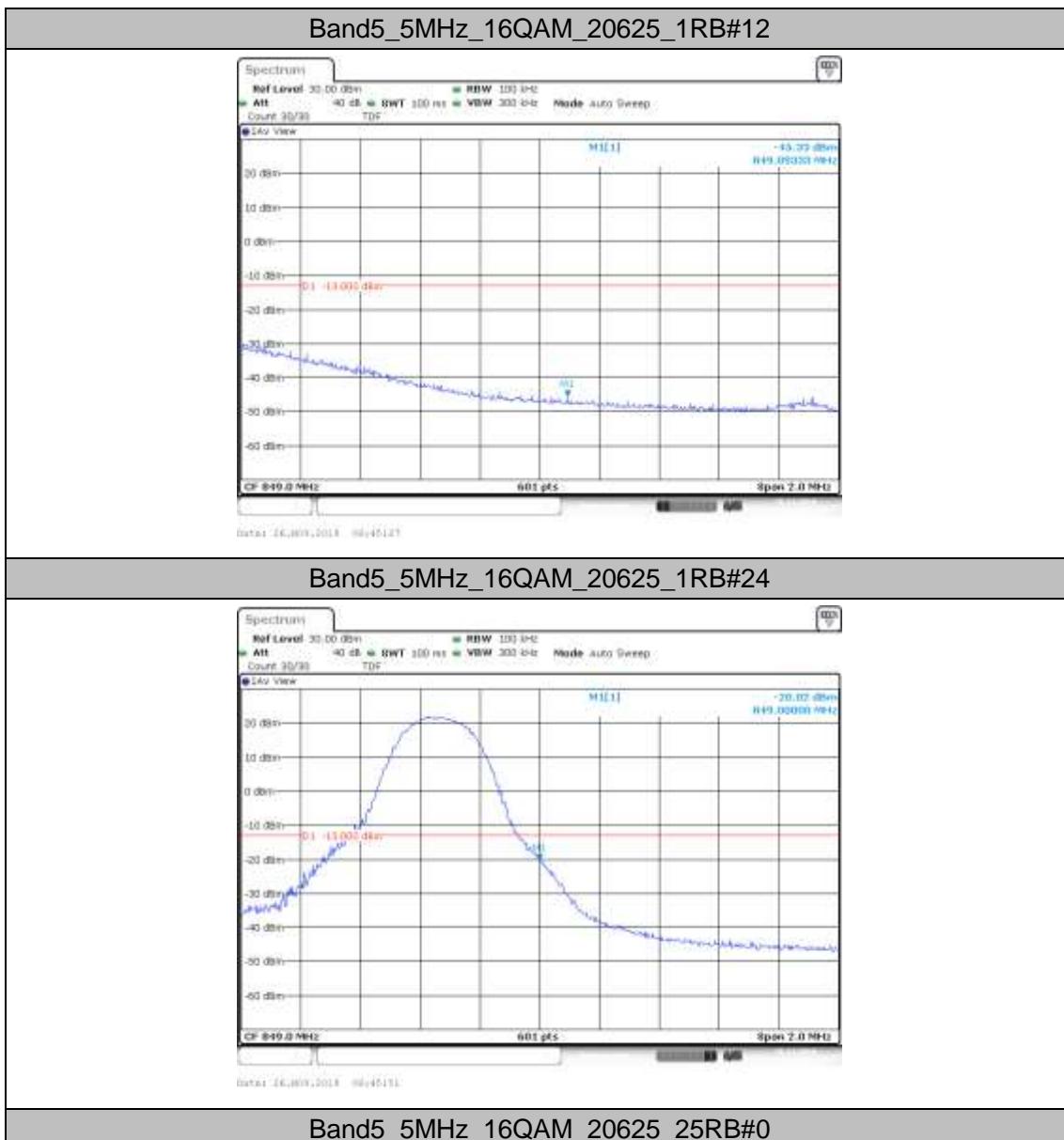
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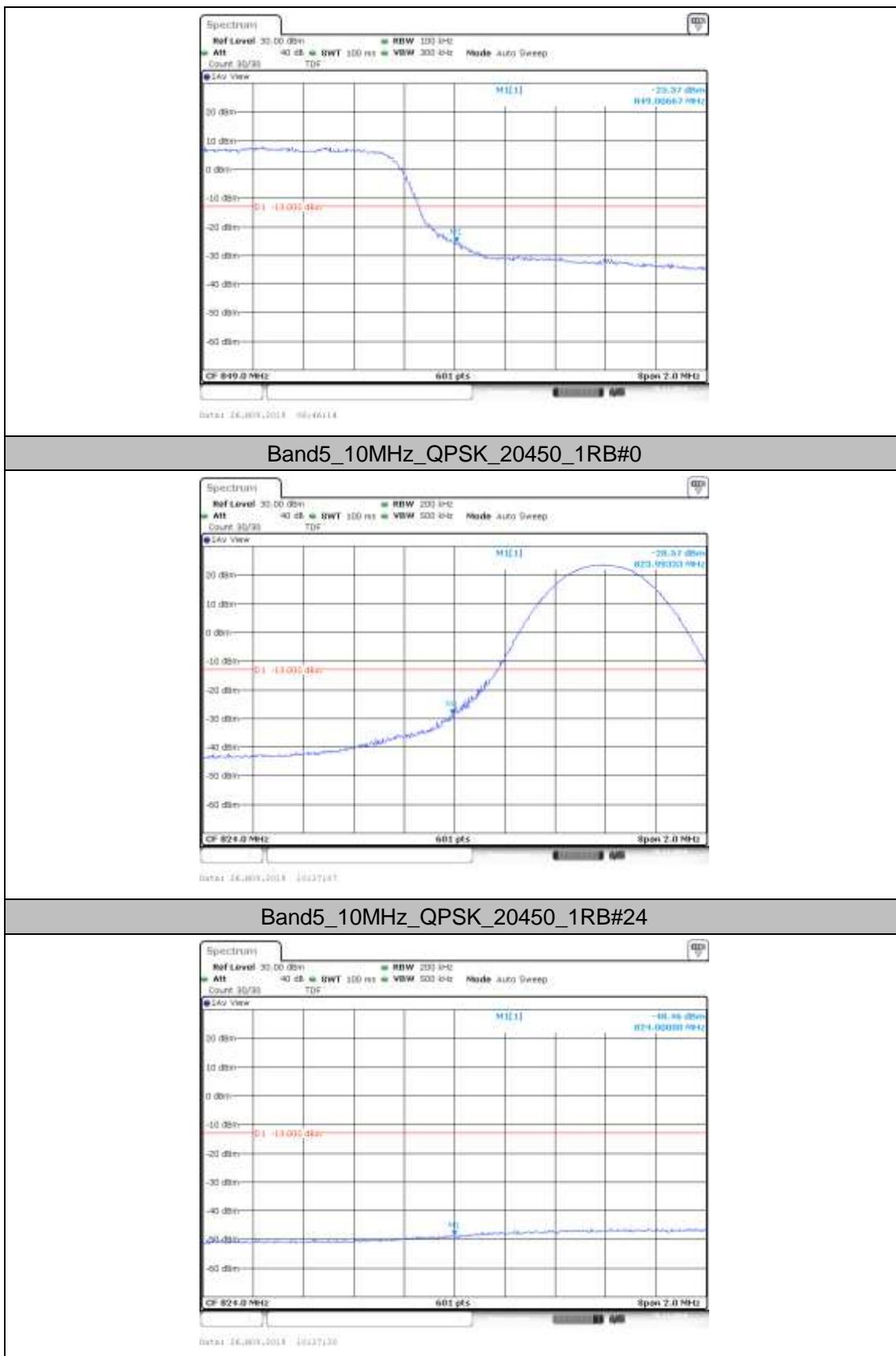
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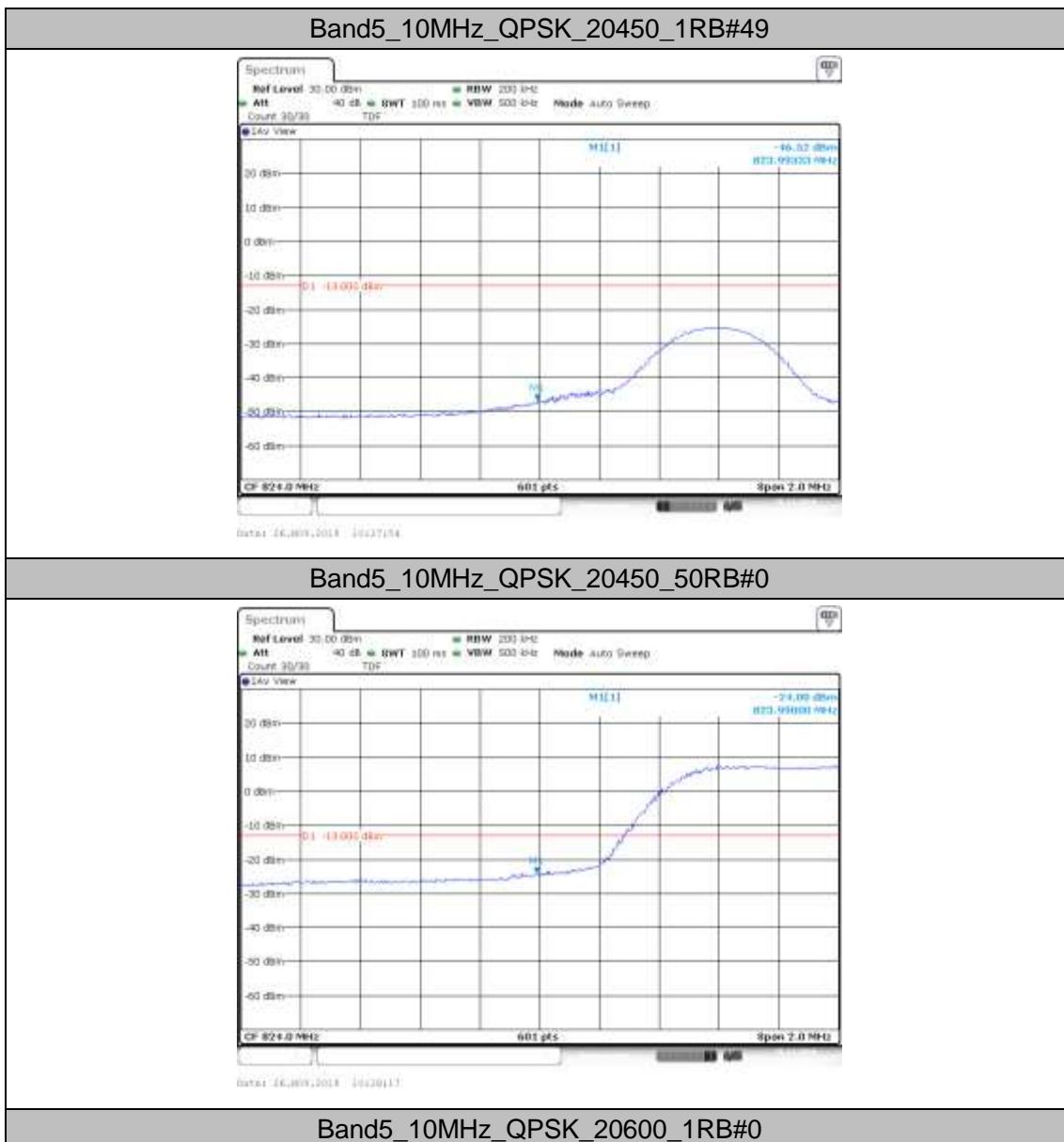
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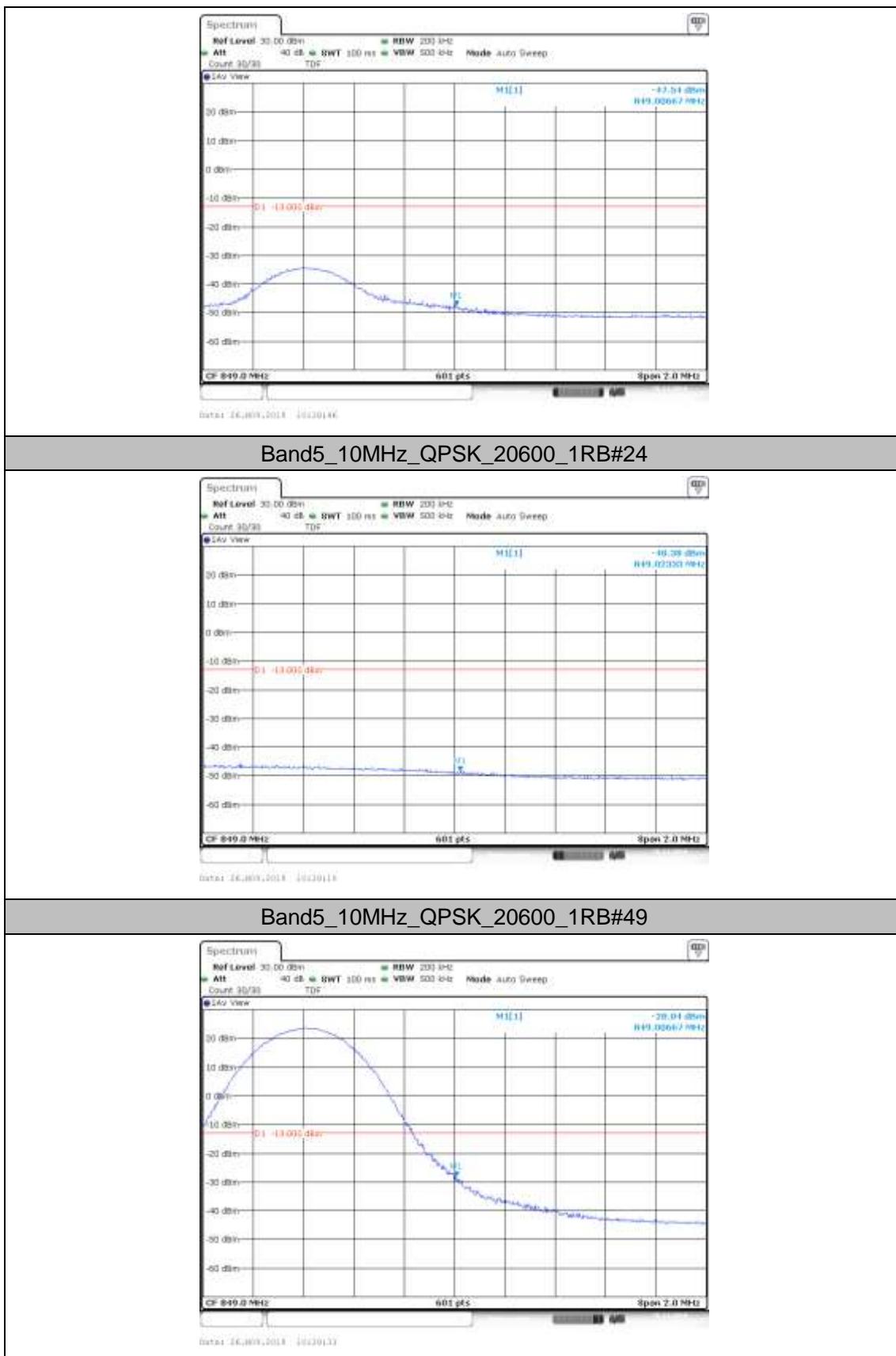
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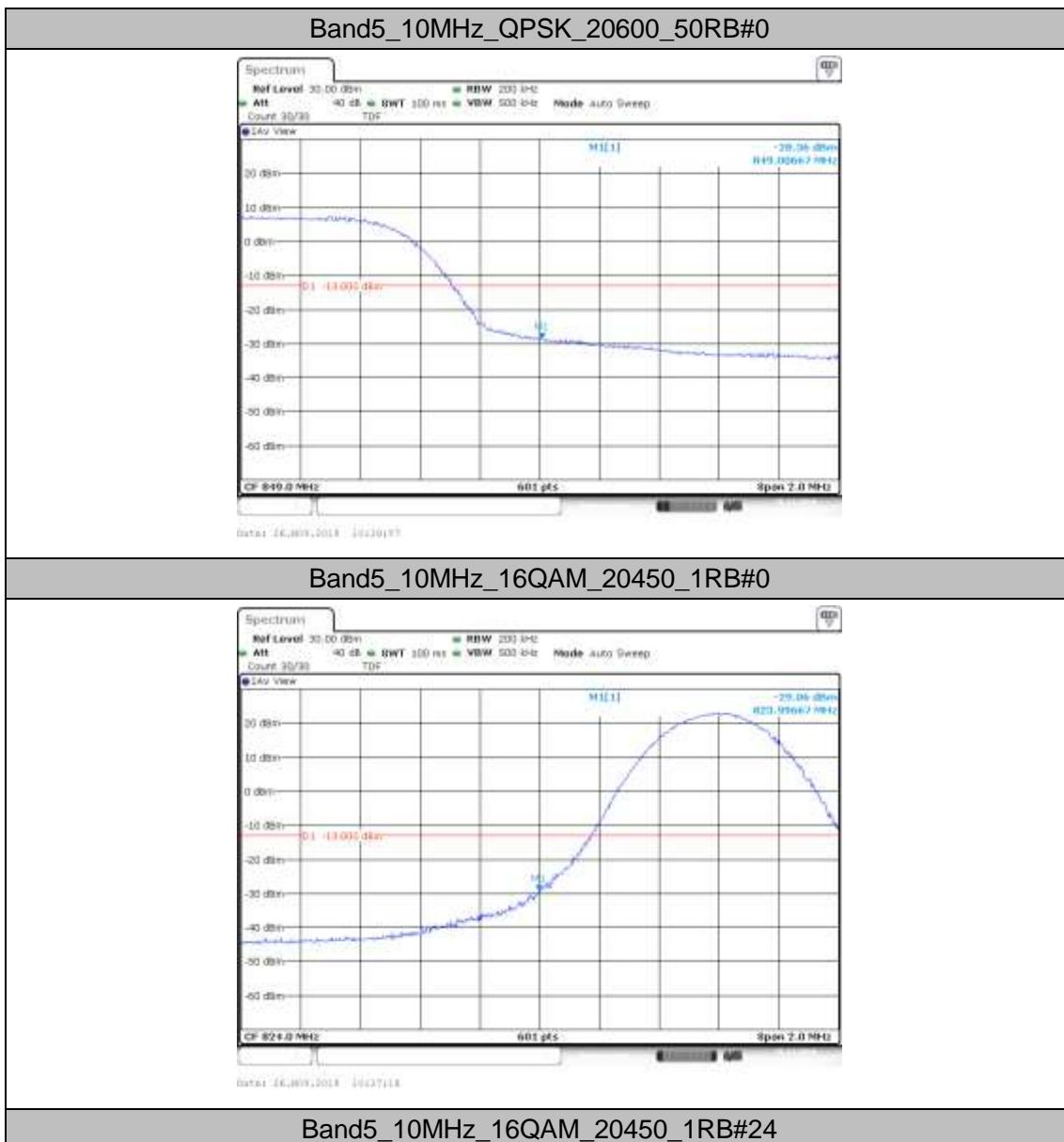
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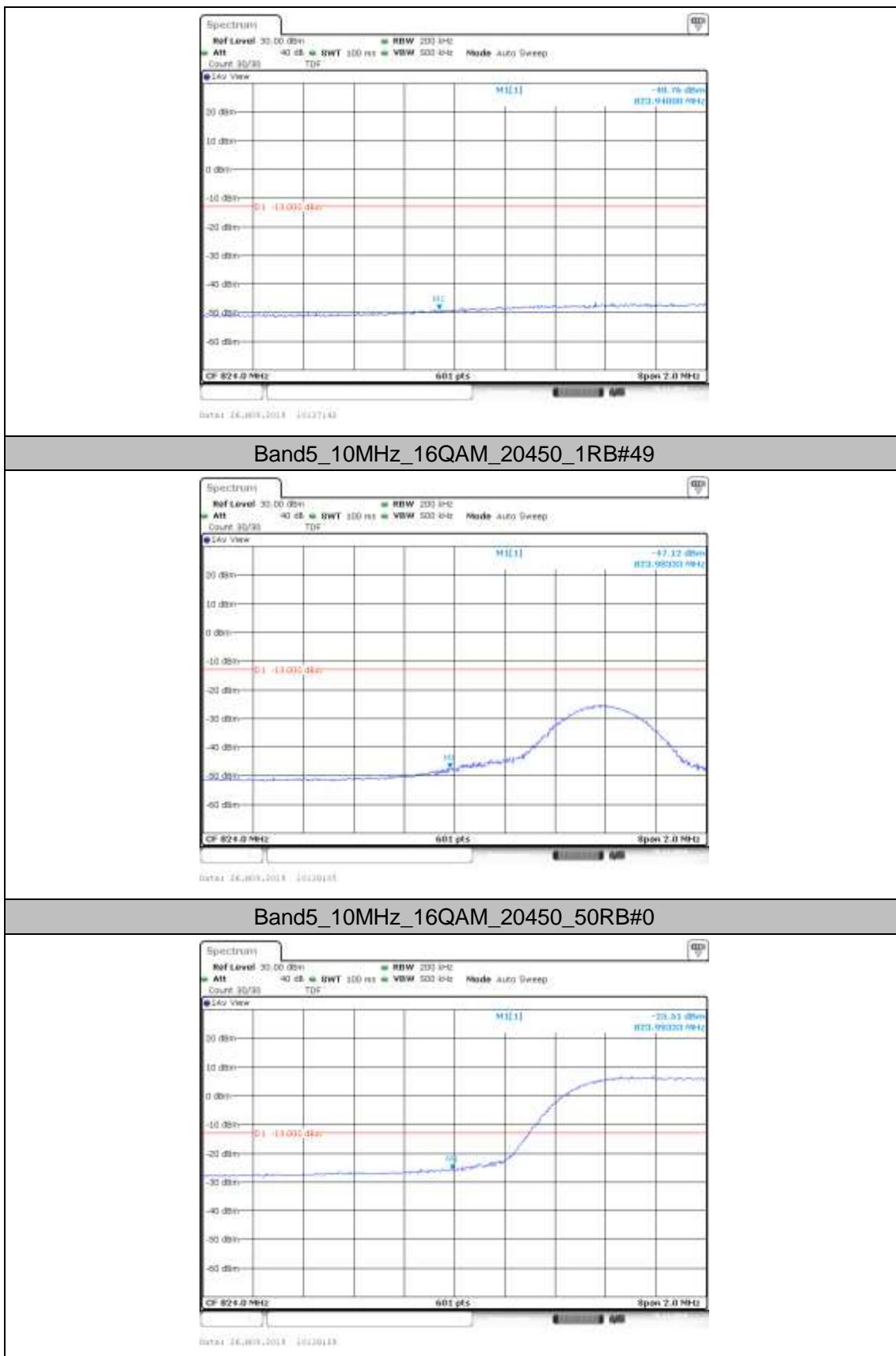
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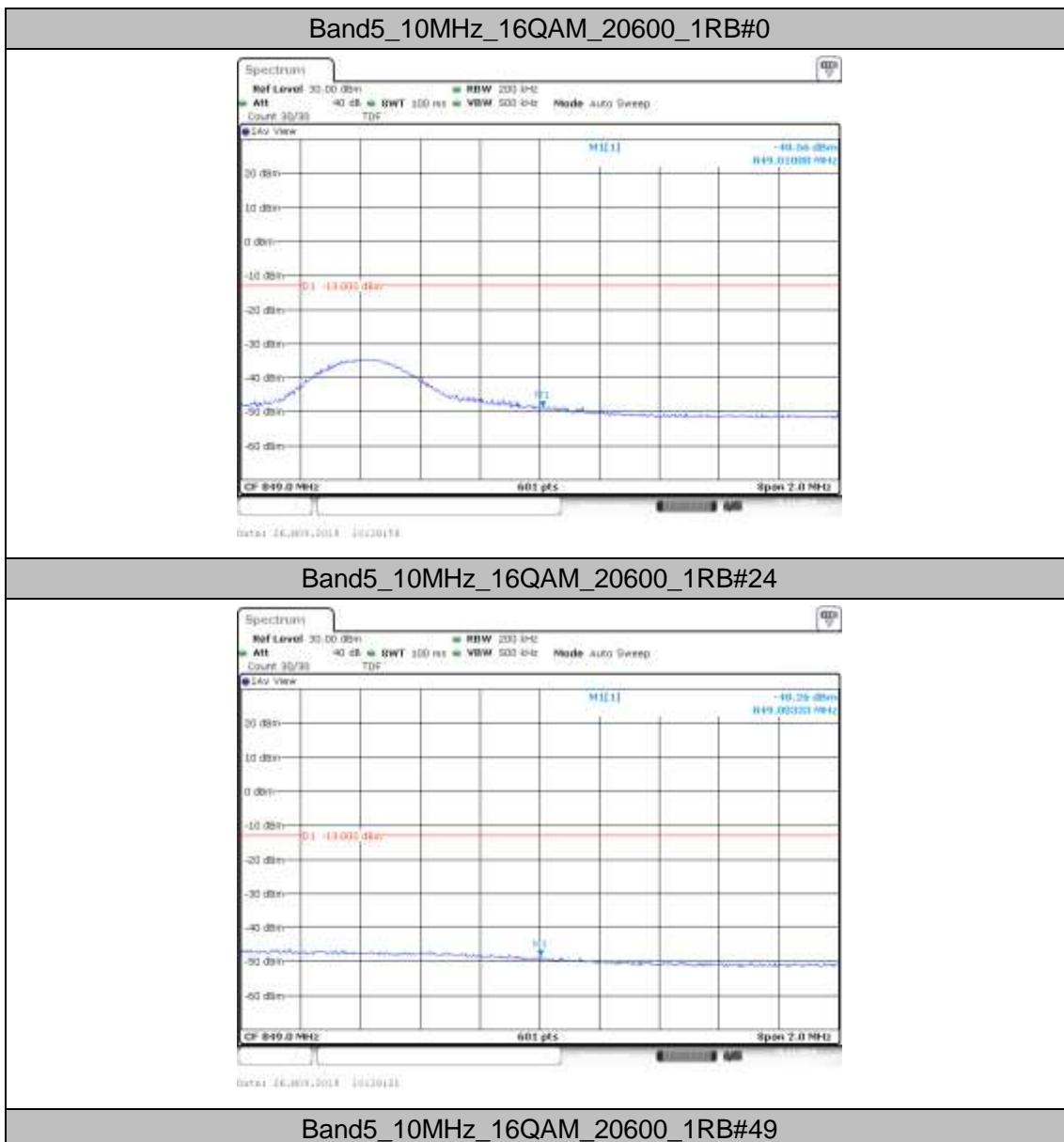
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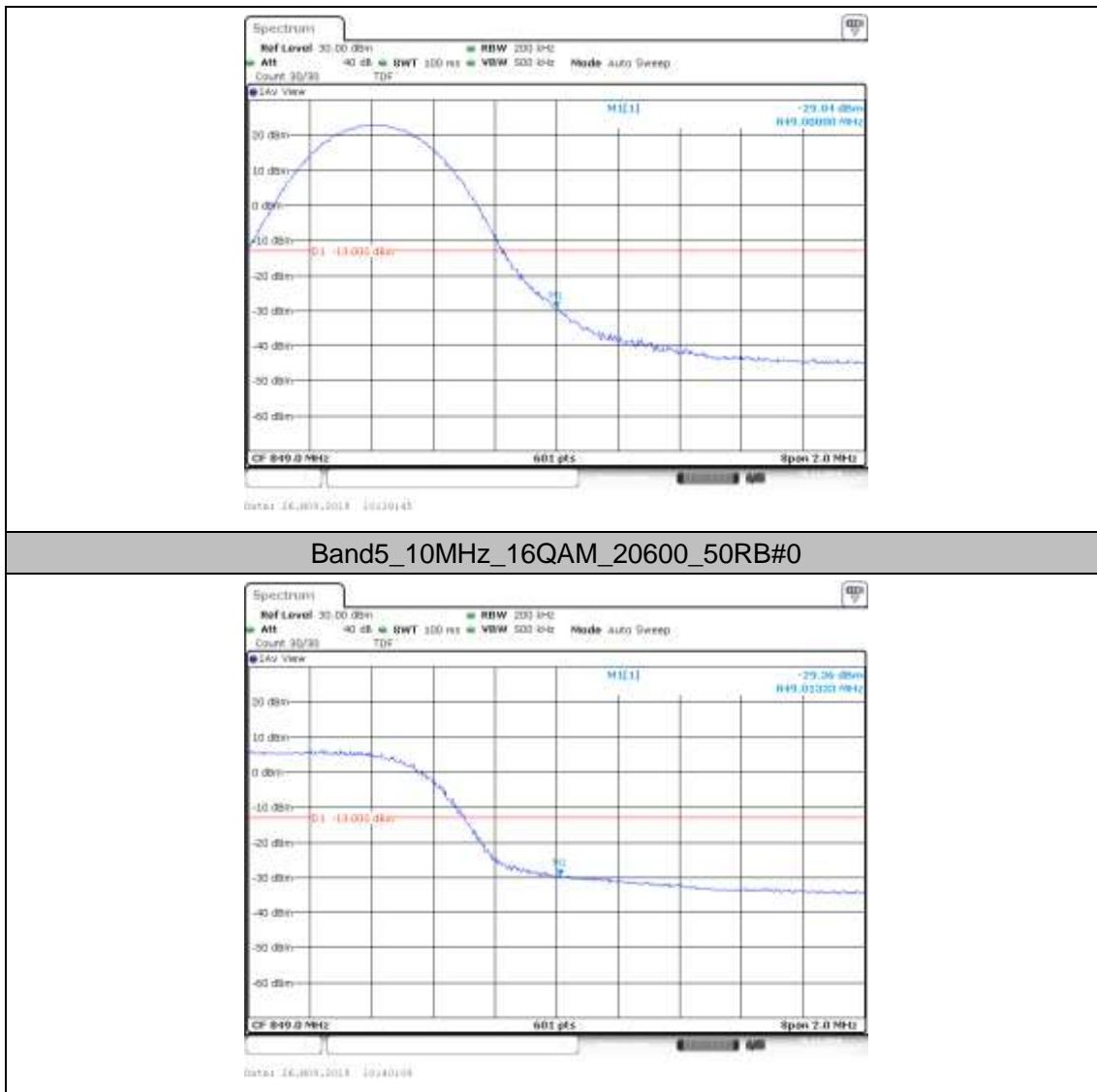
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## Appendix E: Conducted Spurious Emission

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range1:0.009~0.15MHz	-62.53	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range2:0.15~30MHz	-47.78	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range3:30~1000MHz	-60.89	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range4:1000~5000MHz	-43.89	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range5:5000~12000MHz	-57.75	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range6:12000~26500MHz	-58.5	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	-60.98	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	-47.49	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-60.12	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range4:1000~5000MHz	-43.91	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range5:5000~12000MHz	-57.82	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range6:12000~26500MHz	-58.6	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range1:0.009~0.15MHz	-62.74	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range2:0.15~30MHz	-47.86	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range3:30~1000MHz	-60.15	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range4:1000~5000MHz	-43.91	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range5:5000~12000MHz	-57.89	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range6:12000~26500MHz	-58.55	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range1:0.009~0.15MHz	-62.61	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range2:0.15~30MHz	-49.16	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range3:30~1000MHz	-61.73	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range4:1000~5000MHz	-43.92	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range5:5000~12000MHz	-57.91	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range6:12000~26500MHz	-58.51	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	-58.68	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	-50.33	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-59.69	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range4:1000~5000MHz	-43.84	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range5:5000~12000MHz	-57.93	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range6:12000~26500MHz	-58.63	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range1:0.009~0.15MHz	-62.94	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range2:0.15~30MHz	-47.57	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range3:30~1000MHz	-59.71	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range4:1000~5000MHz	-43.68	PASS

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Band5	1.4MHz	16QAM	20643	1RB#0	Range5:5000~12000MHz	-58.02	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range6:12000~26500MHz	-58.54	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range1:0.009~0.15MHz	-62.31	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range2:0.15~30MHz	-48.03	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range3:30~1000MHz	-61.54	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range4:1000~5000MHz	-43.95	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range5:5000~12000MHz	-58.02	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range6:12000~26500MHz	-58.65	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	-61.31	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	-48.31	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-60.13	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range4:1000~5000MHz	-43.82	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range5:5000~12000MHz	-57.98	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range6:12000~26500MHz	-58.59	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range1:0.009~0.15MHz	-61.59	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range2:0.15~30MHz	-50.91	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range3:30~1000MHz	-60.41	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range4:1000~5000MHz	-43.95	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range5:5000~12000MHz	-57.96	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range6:12000~26500MHz	-58.68	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range1:0.009~0.15MHz	-62.54	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range2:0.15~30MHz	-48.41	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range3:30~1000MHz	-60.62	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range4:1000~5000MHz	-44.01	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range5:5000~12000MHz	-58	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range6:12000~26500MHz	-58.6	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	-58.81	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	-48.85	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-60.51	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range4:1000~5000MHz	-43.93	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range5:5000~12000MHz	-58.04	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range6:12000~26500MHz	-58.6	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range1:0.009~0.15MHz	-60.96	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range2:0.15~30MHz	-50.05	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range3:30~1000MHz	-60.2	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range4:1000~5000MHz	-43.92	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range5:5000~12000MHz	-57.87	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range6:12000~26500MHz	-58.57	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range1:0.009~0.15MHz	-61.48	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range2:0.15~30MHz	-46.46	PASS

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Band5	5MHz	QPSK	20425	1RB#0	Range3:30~1000MHz	-60.93	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range4:1000~5000MHz	-43.87	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range5:5000~12000MHz	-57.65	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range6:12000~26500MHz	-58.54	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	-61.66	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	-46.92	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-60.22	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range4:1000~5000MHz	-43.12	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range5:5000~12000MHz	-57.68	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range6:12000~26500MHz	-58.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range1:0.009~0.15MHz	-61.4	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range2:0.15~30MHz	-47.65	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range3:30~1000MHz	-59.92	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range4:1000~5000MHz	-43.84	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range5:5000~12000MHz	-57.65	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range6:12000~26500MHz	-58.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range1:0.009~0.15MHz	-62.08	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range2:0.15~30MHz	-49.86	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range3:30~1000MHz	-60.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range4:1000~5000MHz	-43.87	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range5:5000~12000MHz	-57.88	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range6:12000~26500MHz	-58.53	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	-62.13	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	-50.7	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-60.07	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range4:1000~5000MHz	-43.84	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range5:5000~12000MHz	-57.6	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range6:12000~26500MHz	-58.48	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range1:0.009~0.15MHz	-62.59	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range2:0.15~30MHz	-49.98	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range3:30~1000MHz	-59.81	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range4:1000~5000MHz	-43.81	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range5:5000~12000MHz	-57.7	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range6:12000~26500MHz	-58.32	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range1:0.009~0.15MHz	-61.89	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:0.15~30MHz	-48.03	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range3:30~1000MHz	-60.03	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range4:1000~5000MHz	-43.81	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range5:5000~12000MHz	-57.83	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range6:12000~26500MHz	-58.45	PASS

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Band5	10MHz	QPSK	20525	1RB#0	Range1:0.009~0.15MHz	-61.51	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range2:0.15~30MHz	-49.49	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-59.93	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range4:1000~5000MHz	-43.89	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range5:5000~12000MHz	-57.69	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range6:12000~26500MHz	-58.37	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:0.009~0.15MHz	-61.9	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:0.15~30MHz	-48.81	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range3:30~1000MHz	-59.72	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range4:1000~5000MHz	-43.87	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range5:5000~12000MHz	-57.74	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range6:12000~26500MHz	-58.57	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:0.009~0.15MHz	-62.41	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range2:0.15~30MHz	-49.13	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range3:30~1000MHz	-59.94	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range4:1000~5000MHz	-43.71	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range5:5000~12000MHz	-57.68	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range6:12000~26500MHz	-58.54	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range1:0.009~0.15MHz	-60.61	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range2:0.15~30MHz	-49.03	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-60.32	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range4:1000~5000MHz	-43.63	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range5:5000~12000MHz	-57.58	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range6:12000~26500MHz	-58.39	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range1:0.009~0.15MHz	-61.54	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range2:0.15~30MHz	-47.25	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range3:30~1000MHz	-60.63	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range4:1000~5000MHz	-43.87	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range5:5000~12000MHz	-57.85	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range6:12000~26500MHz	-58.57	PASS

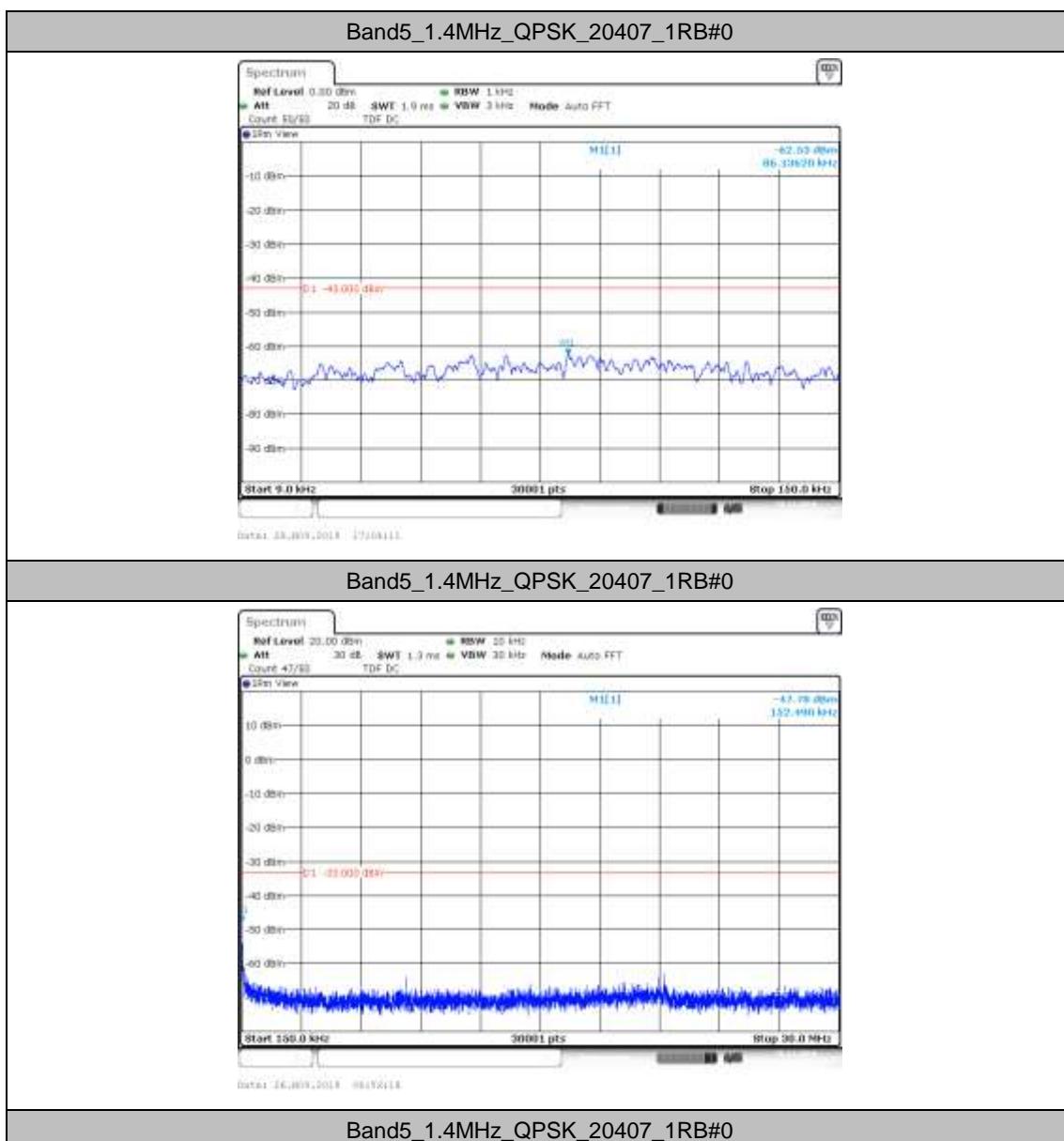
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## Test Graphs



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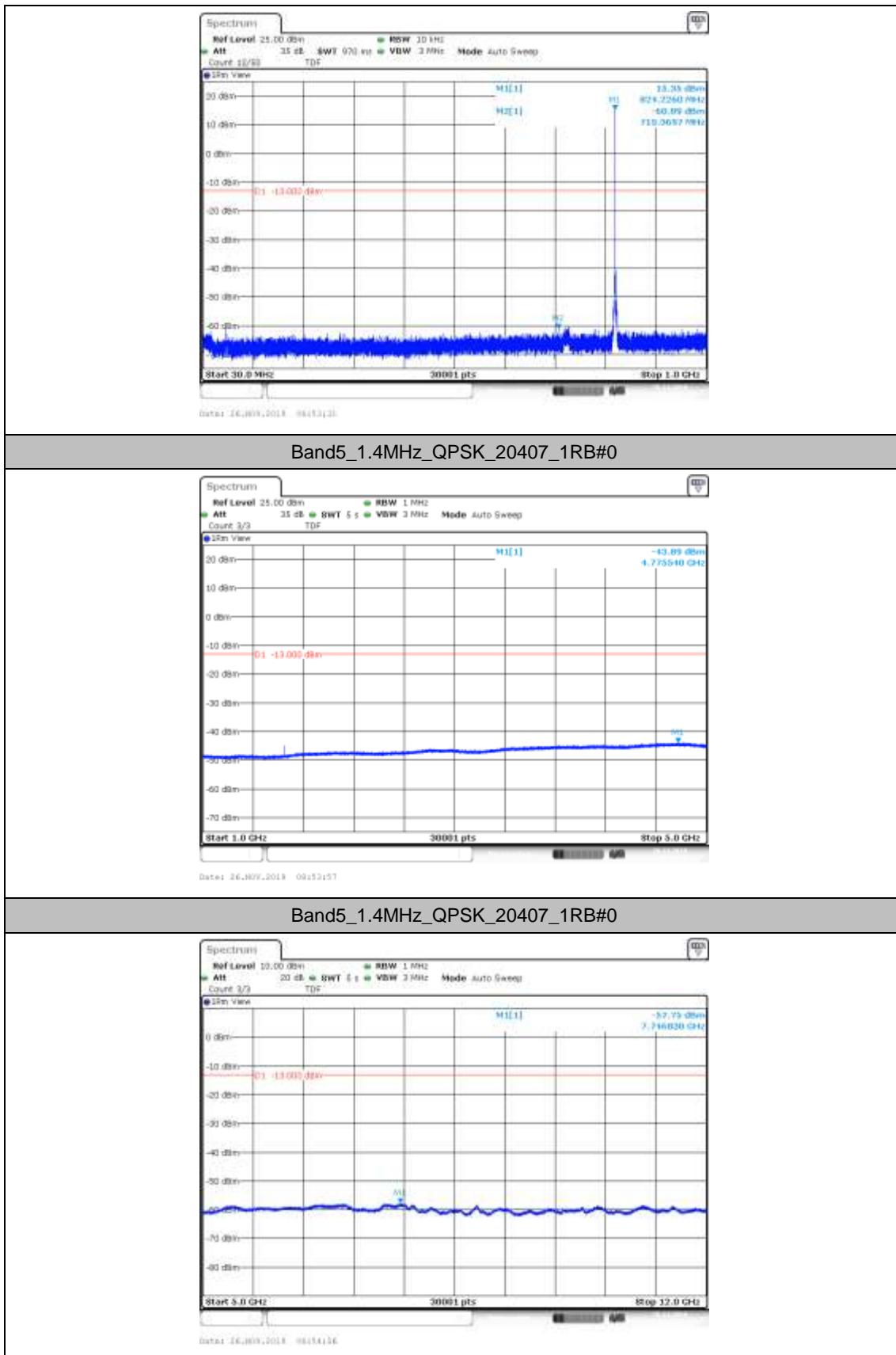
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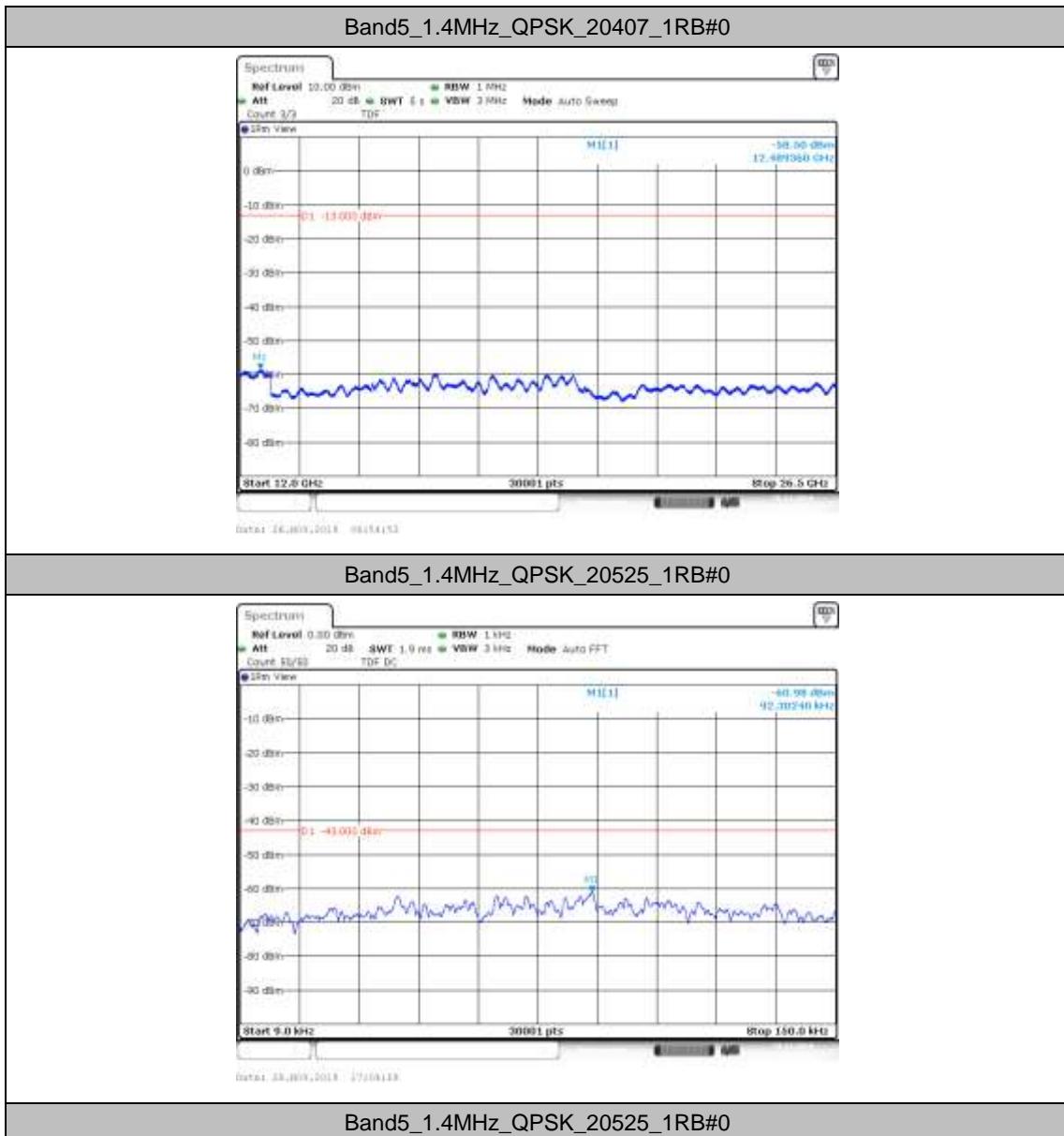
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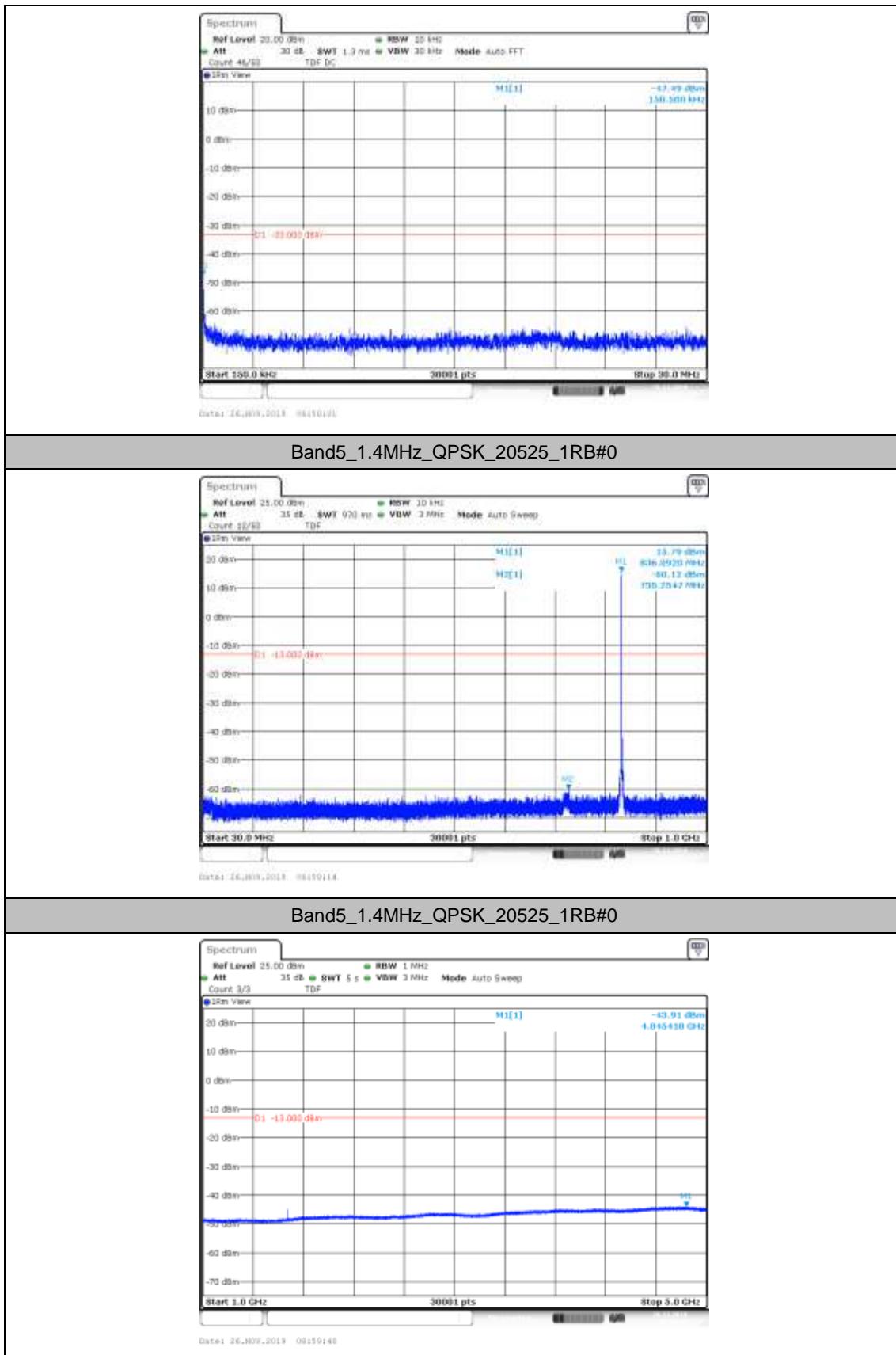
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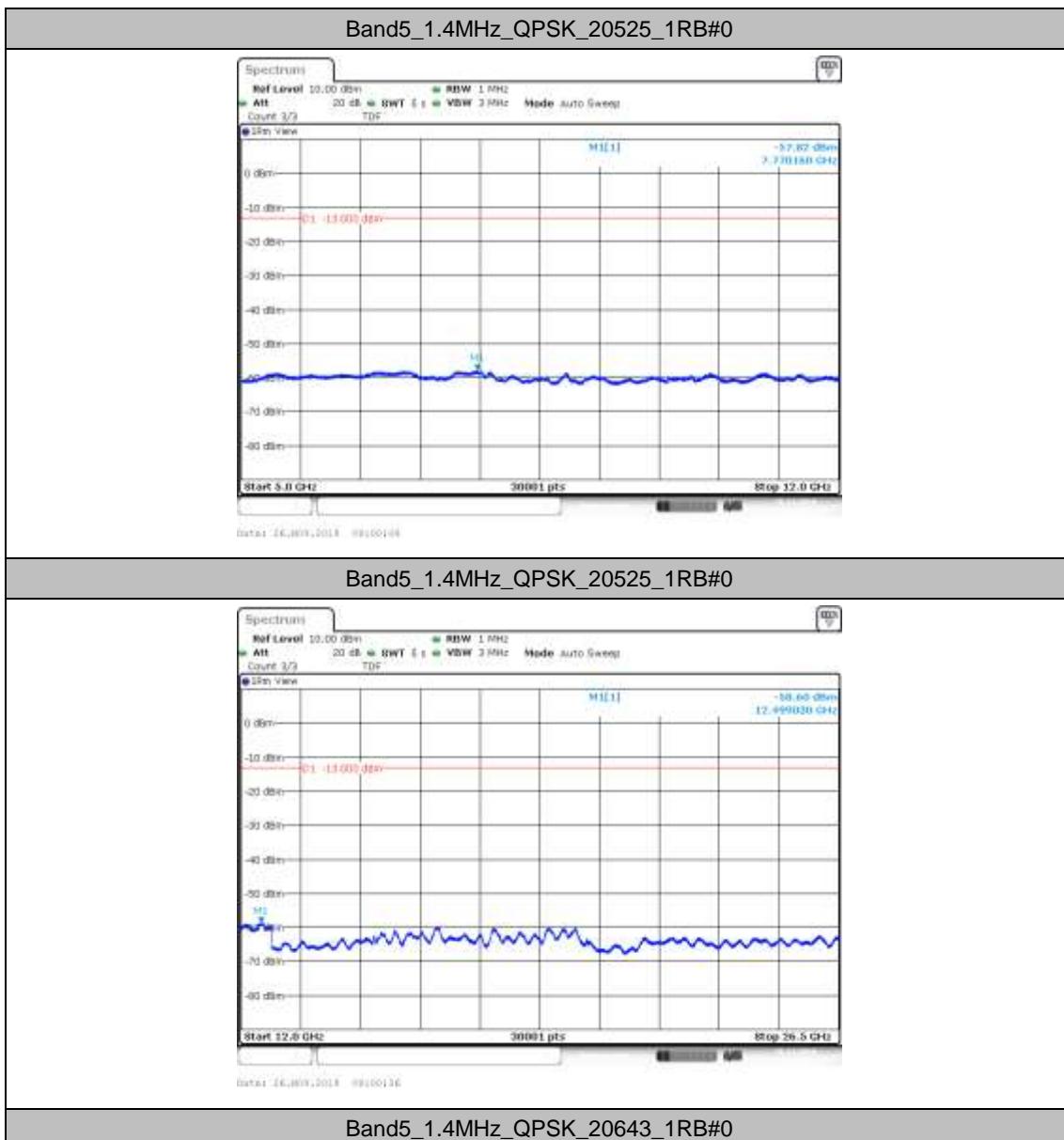
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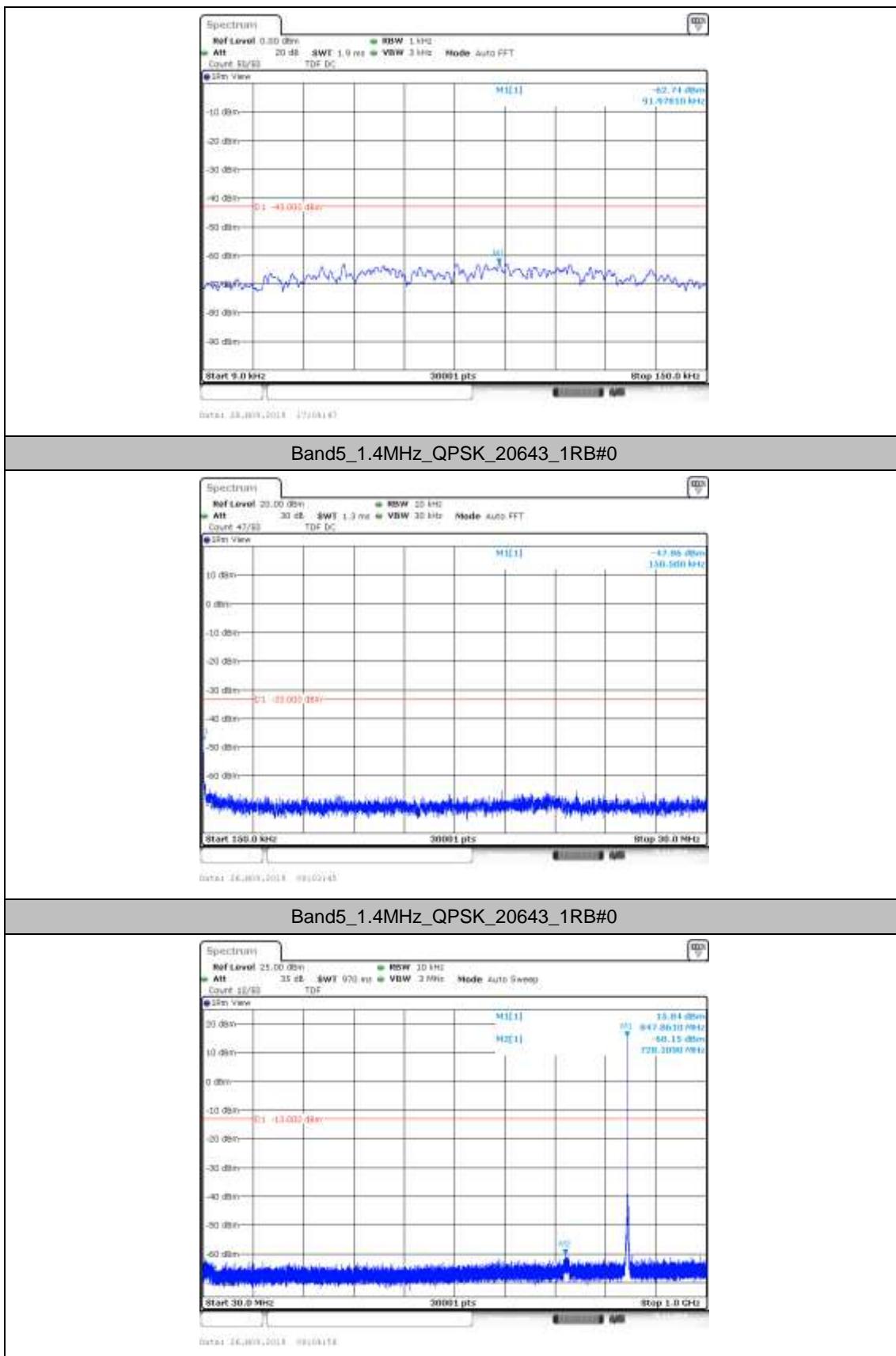
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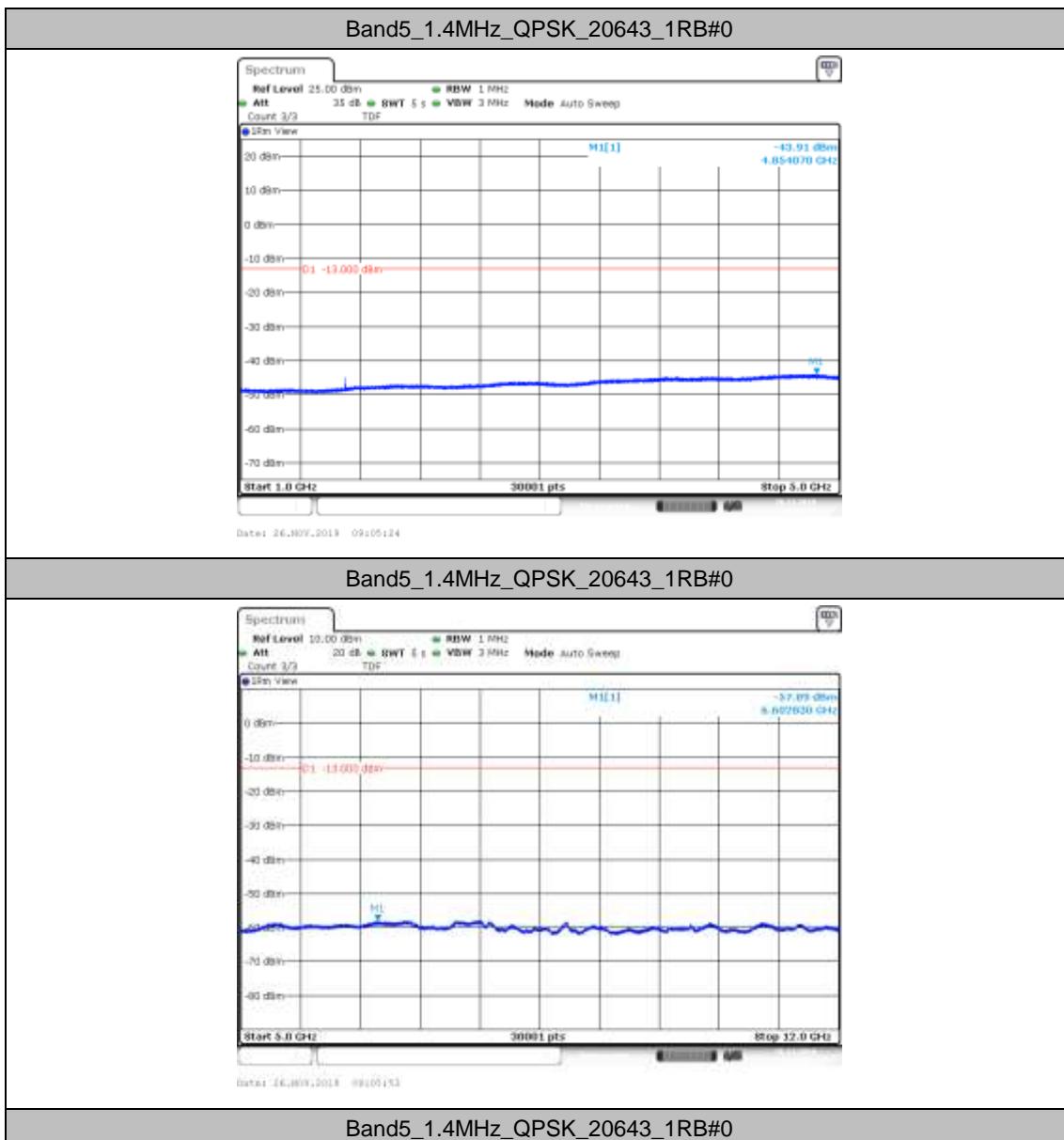
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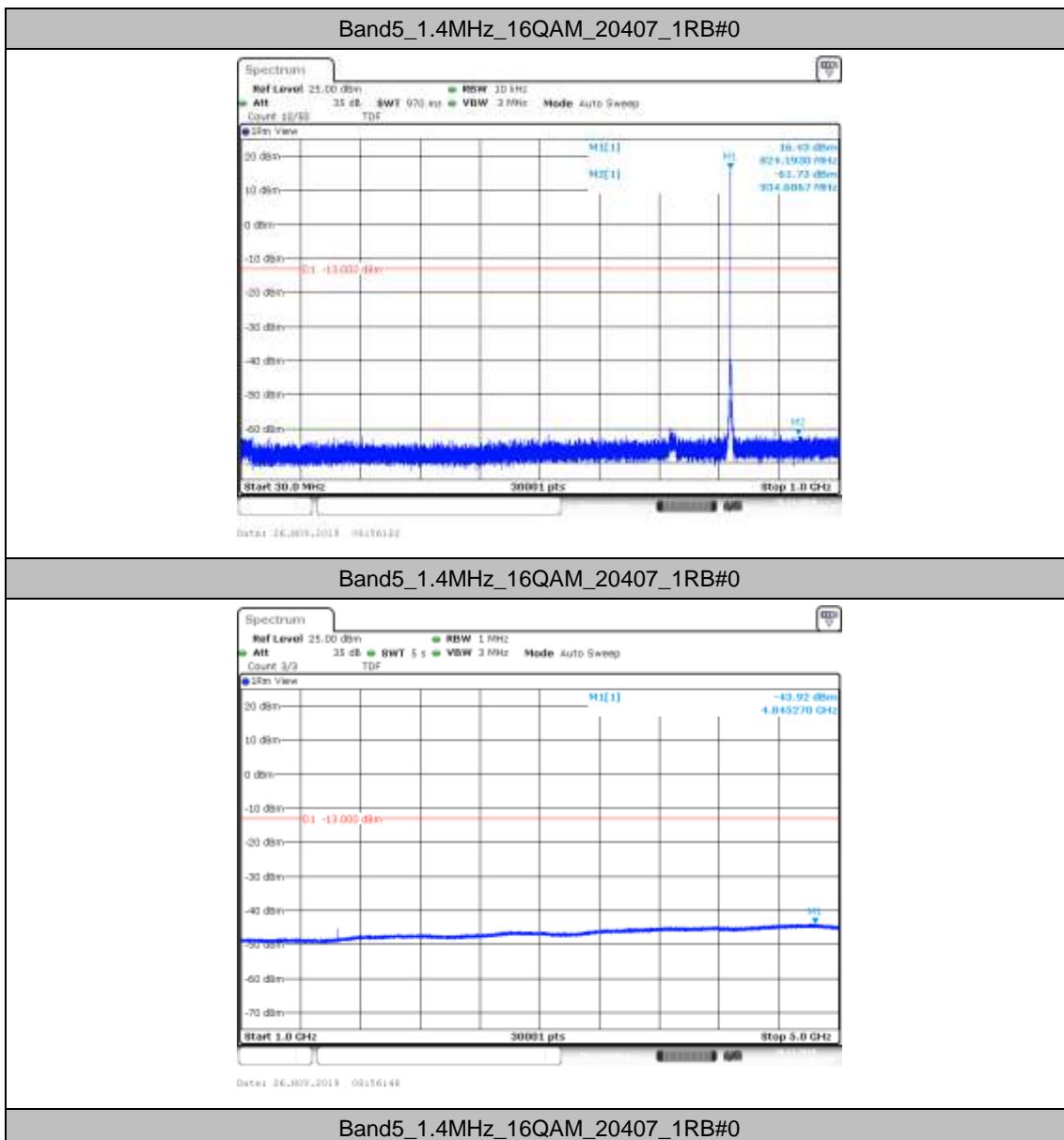
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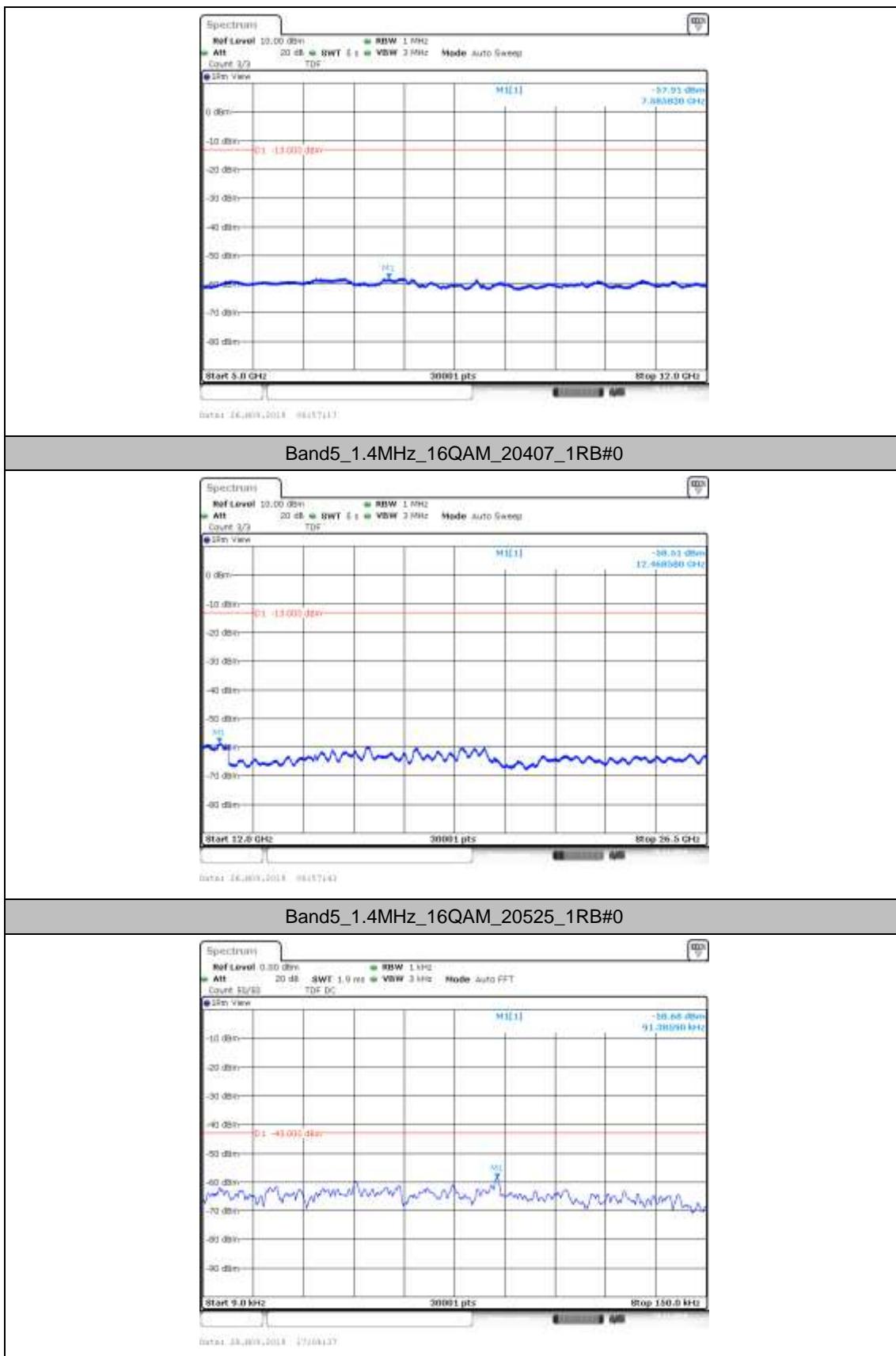
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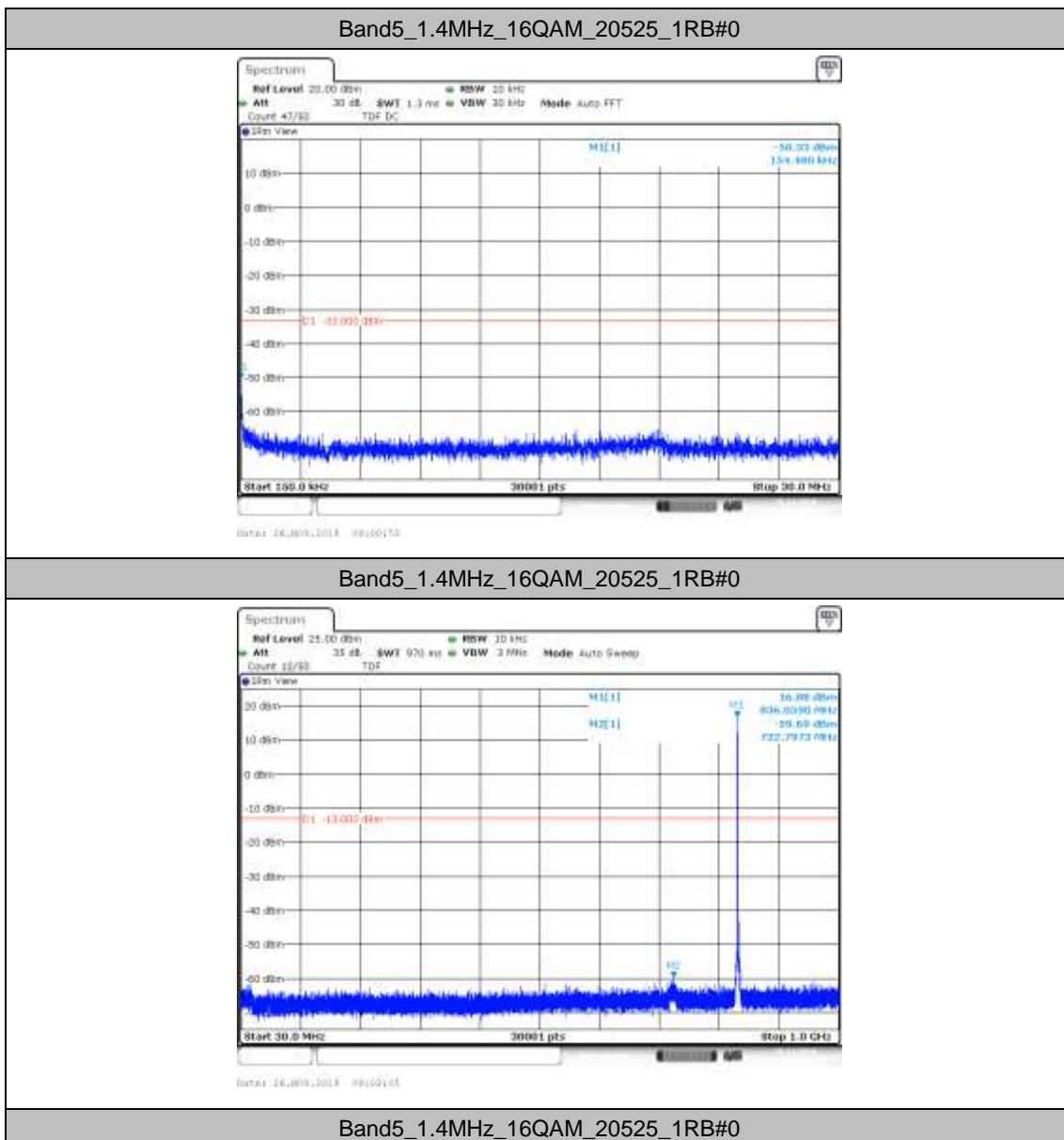
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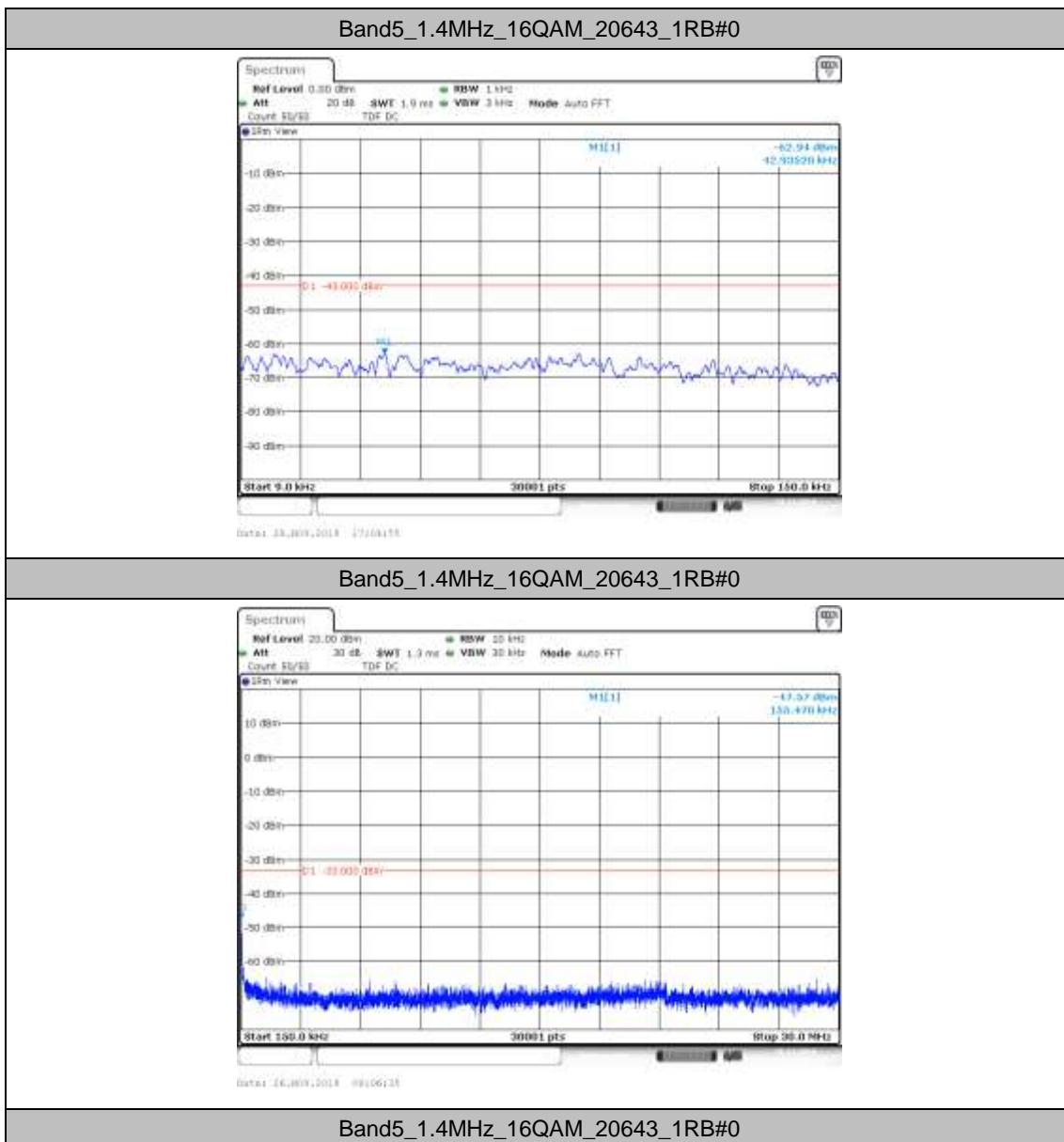
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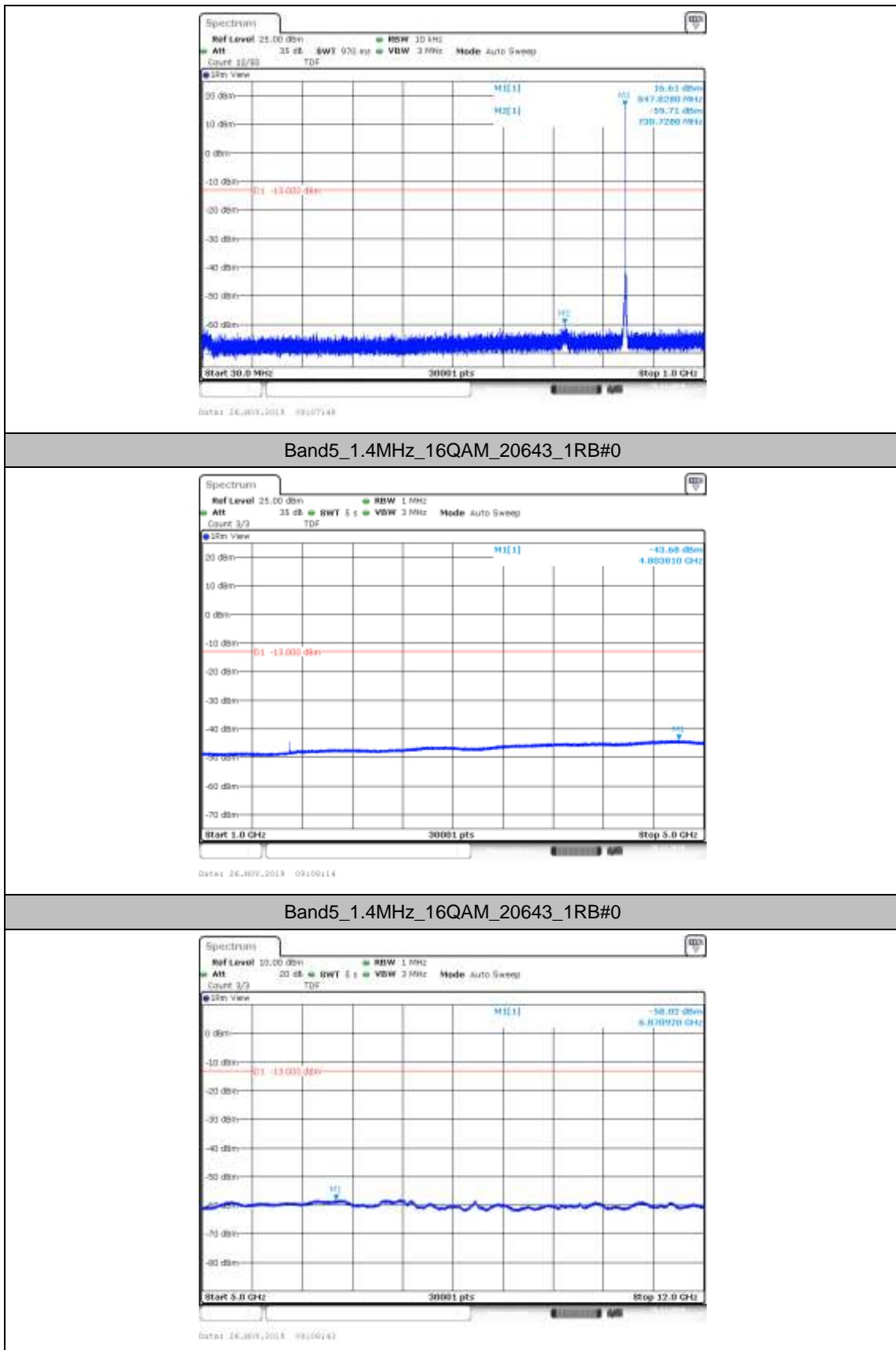
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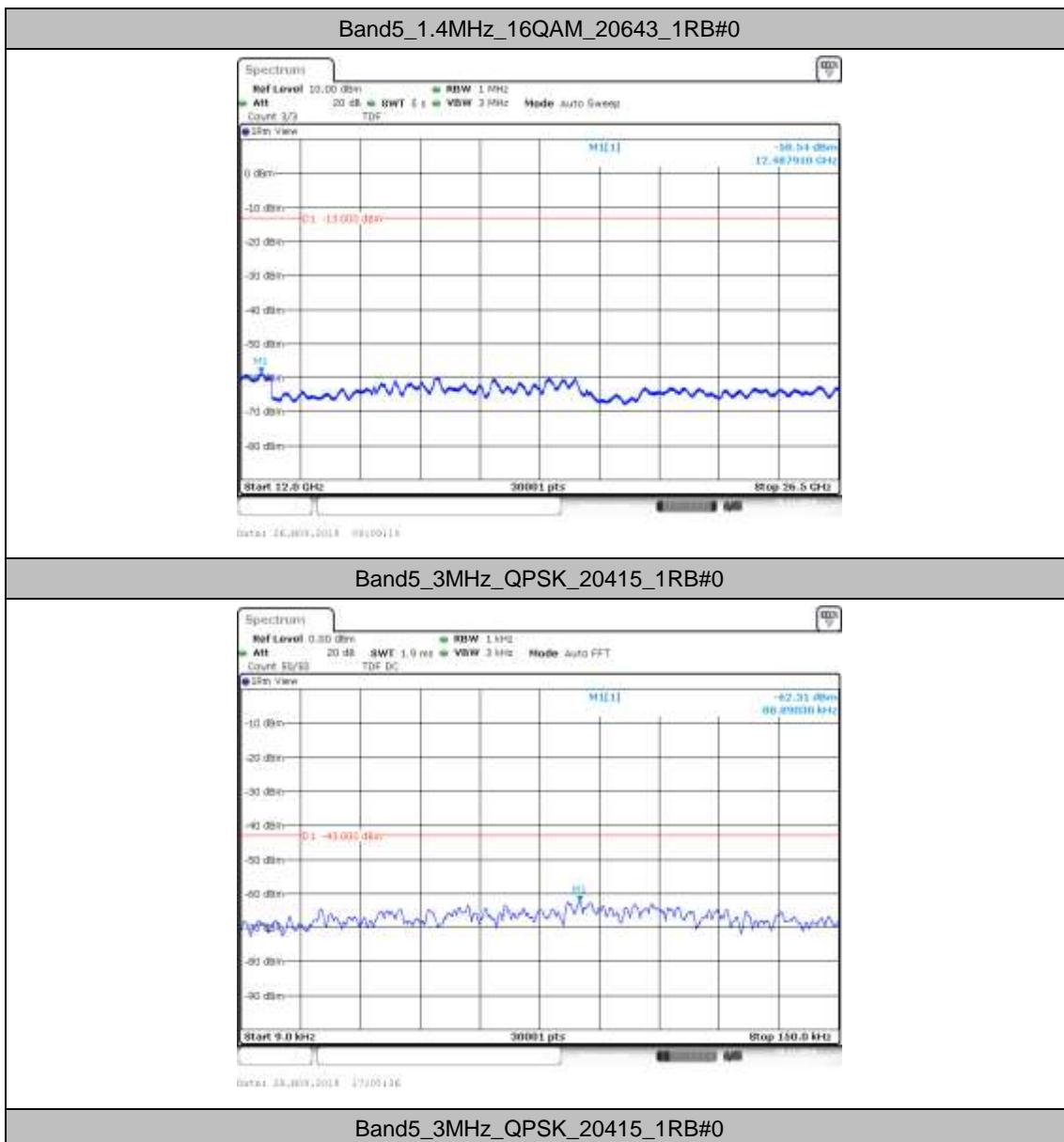
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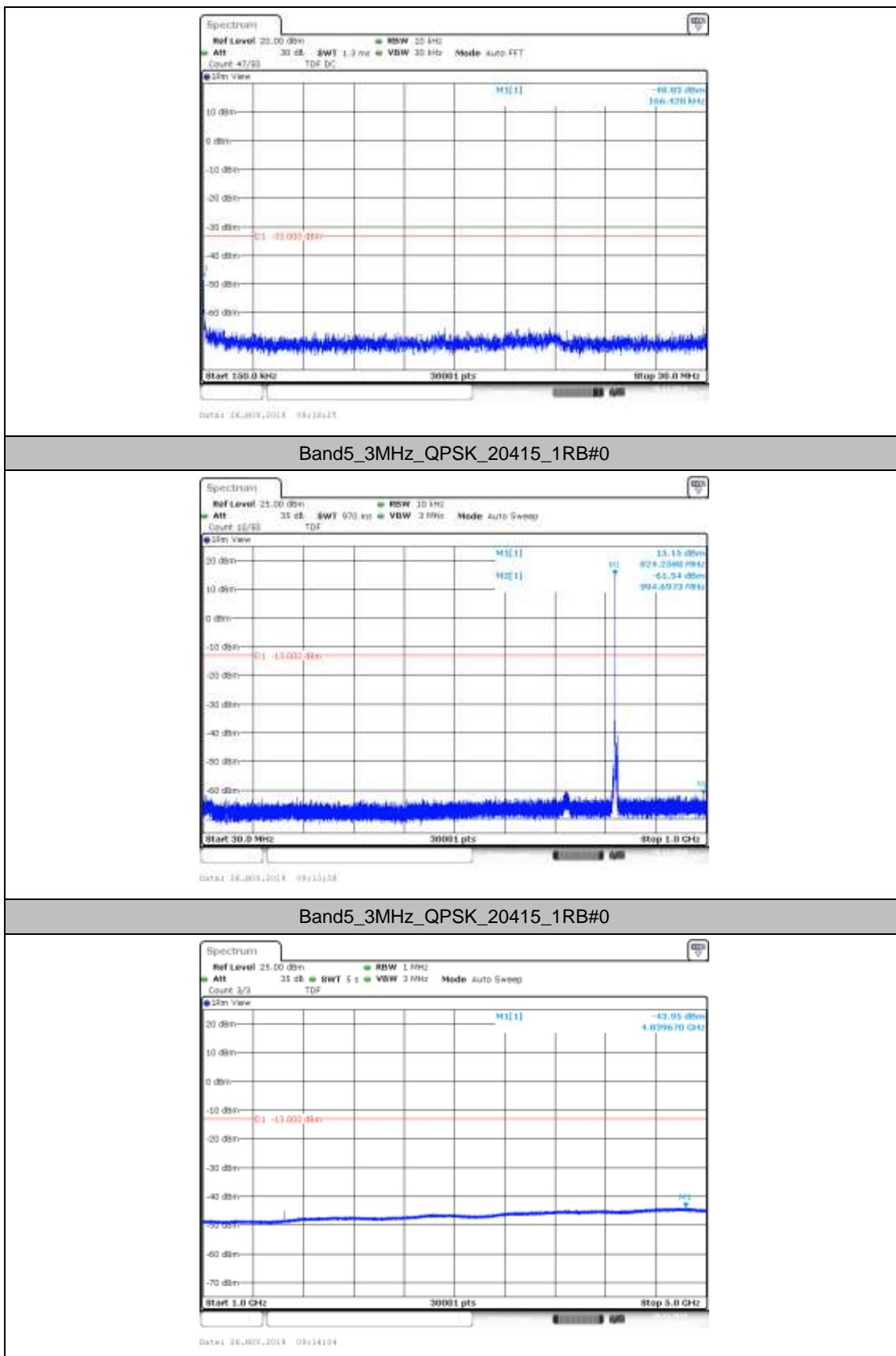
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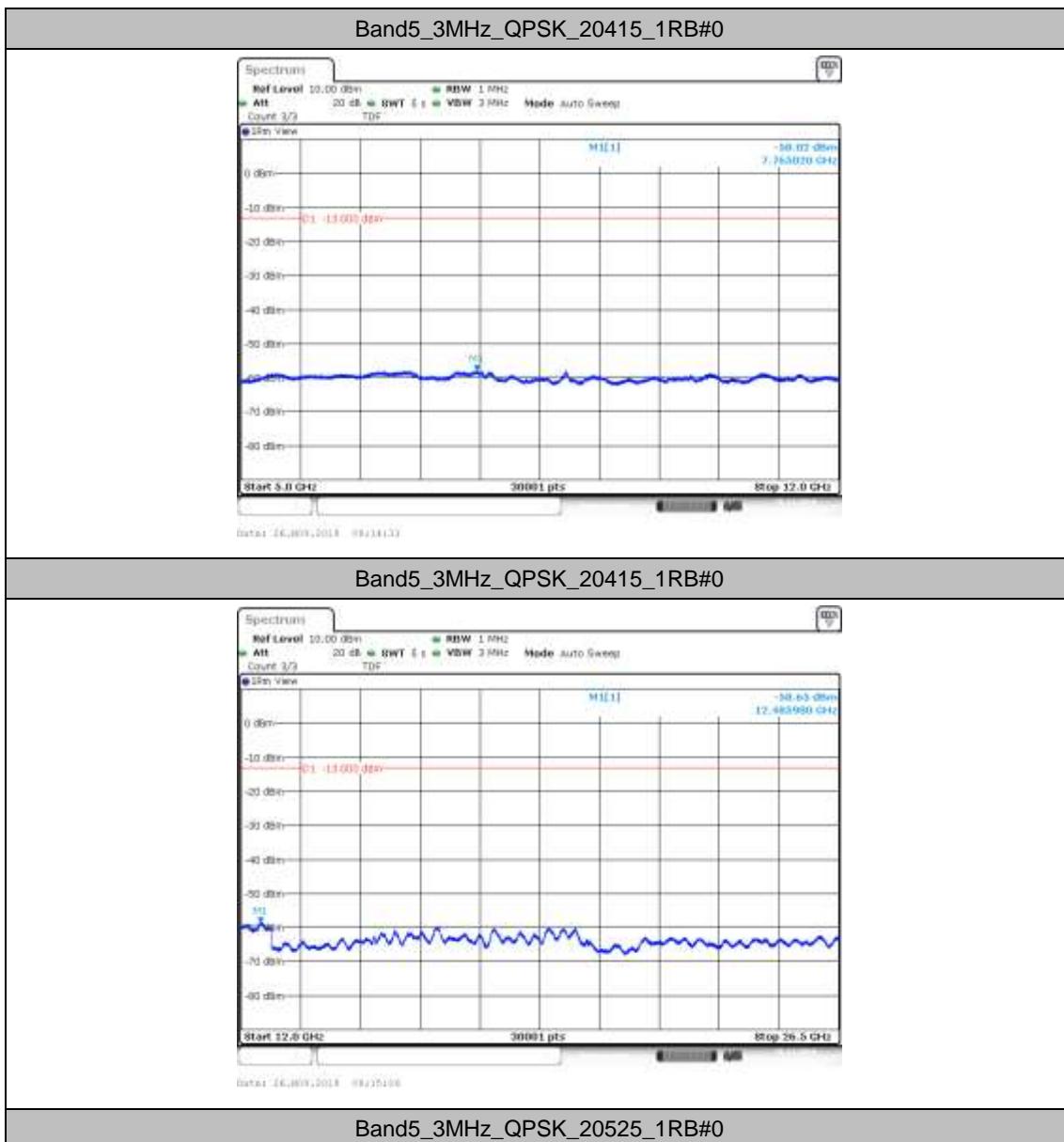
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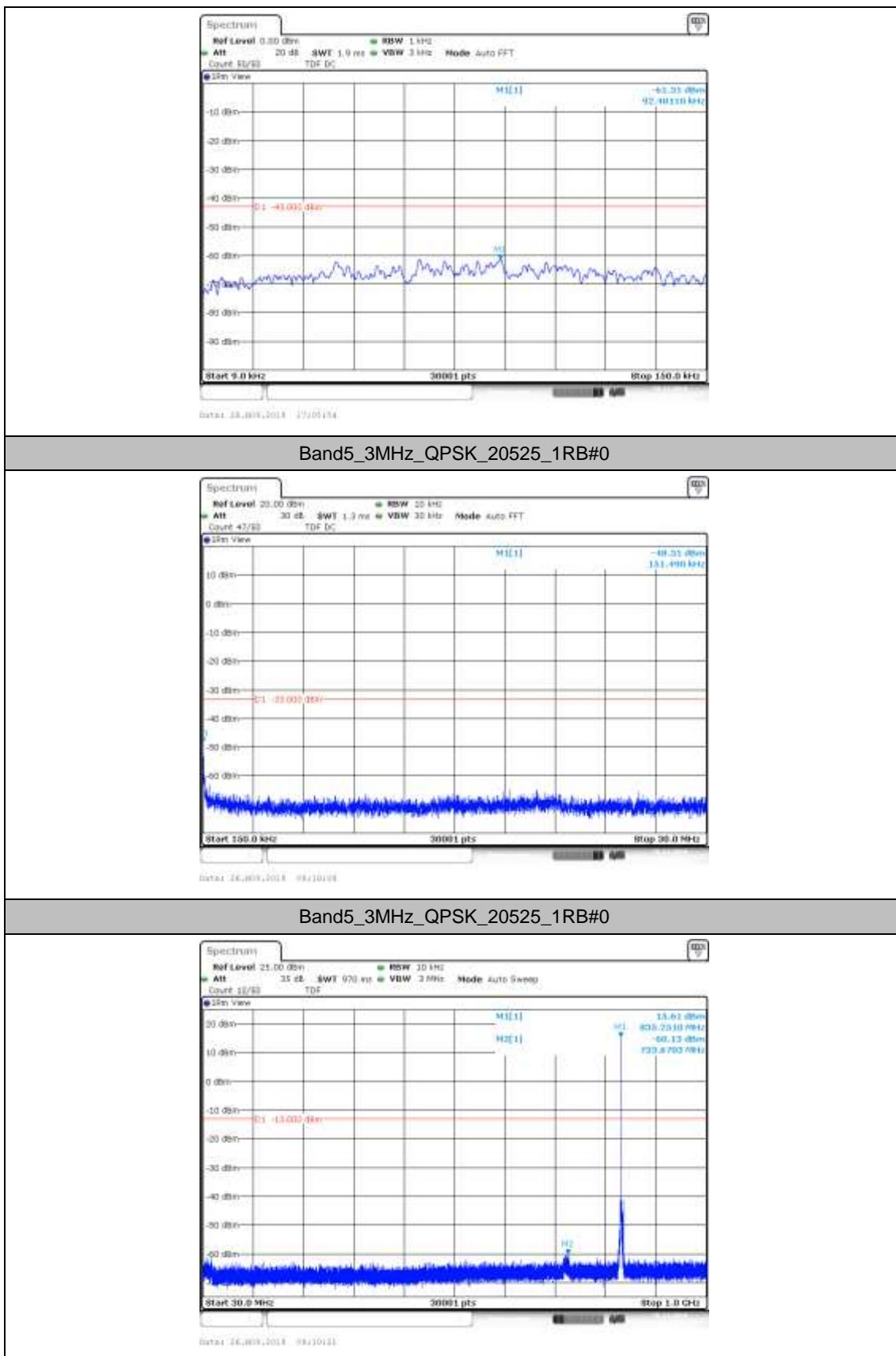
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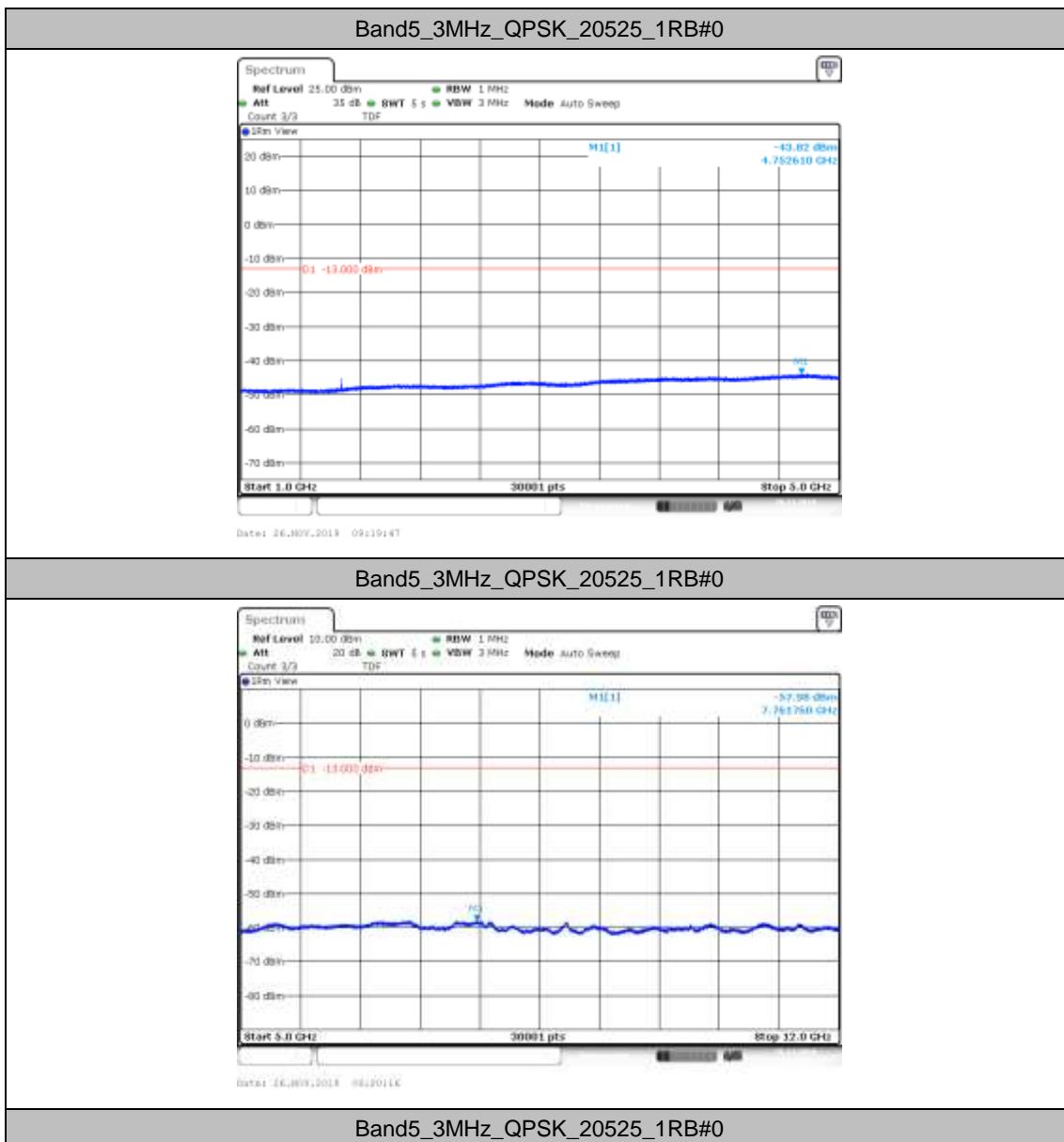
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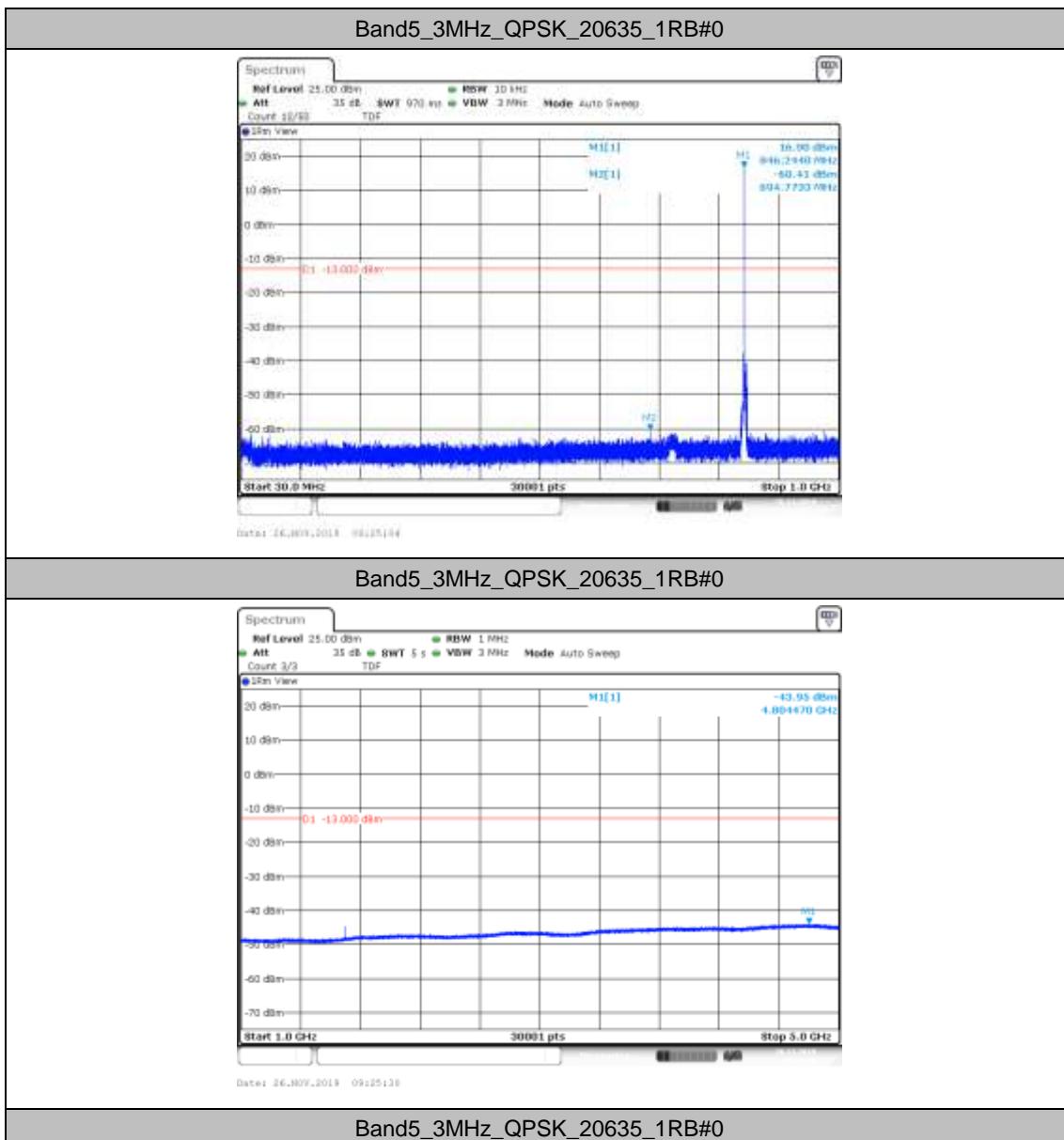
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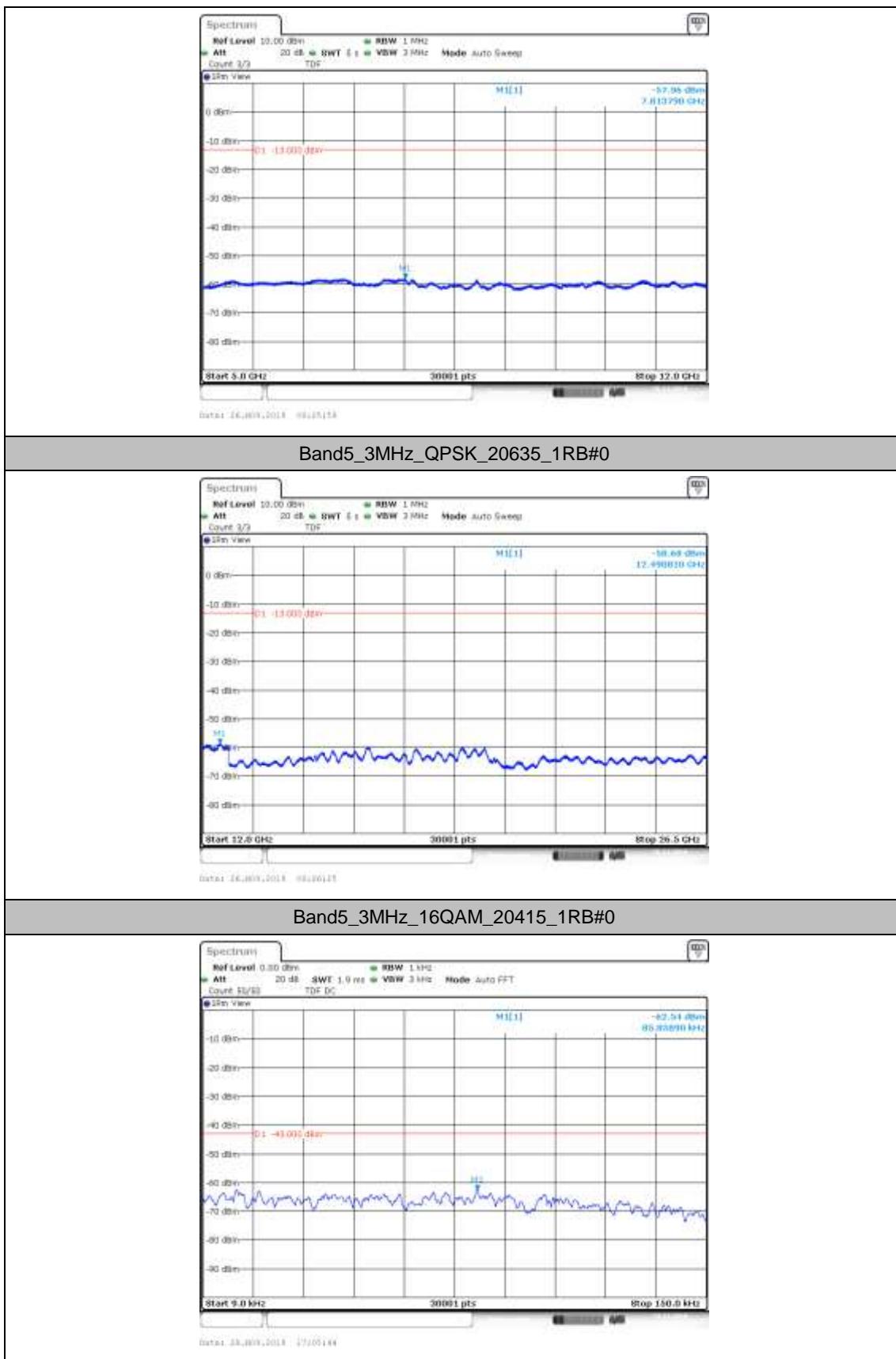
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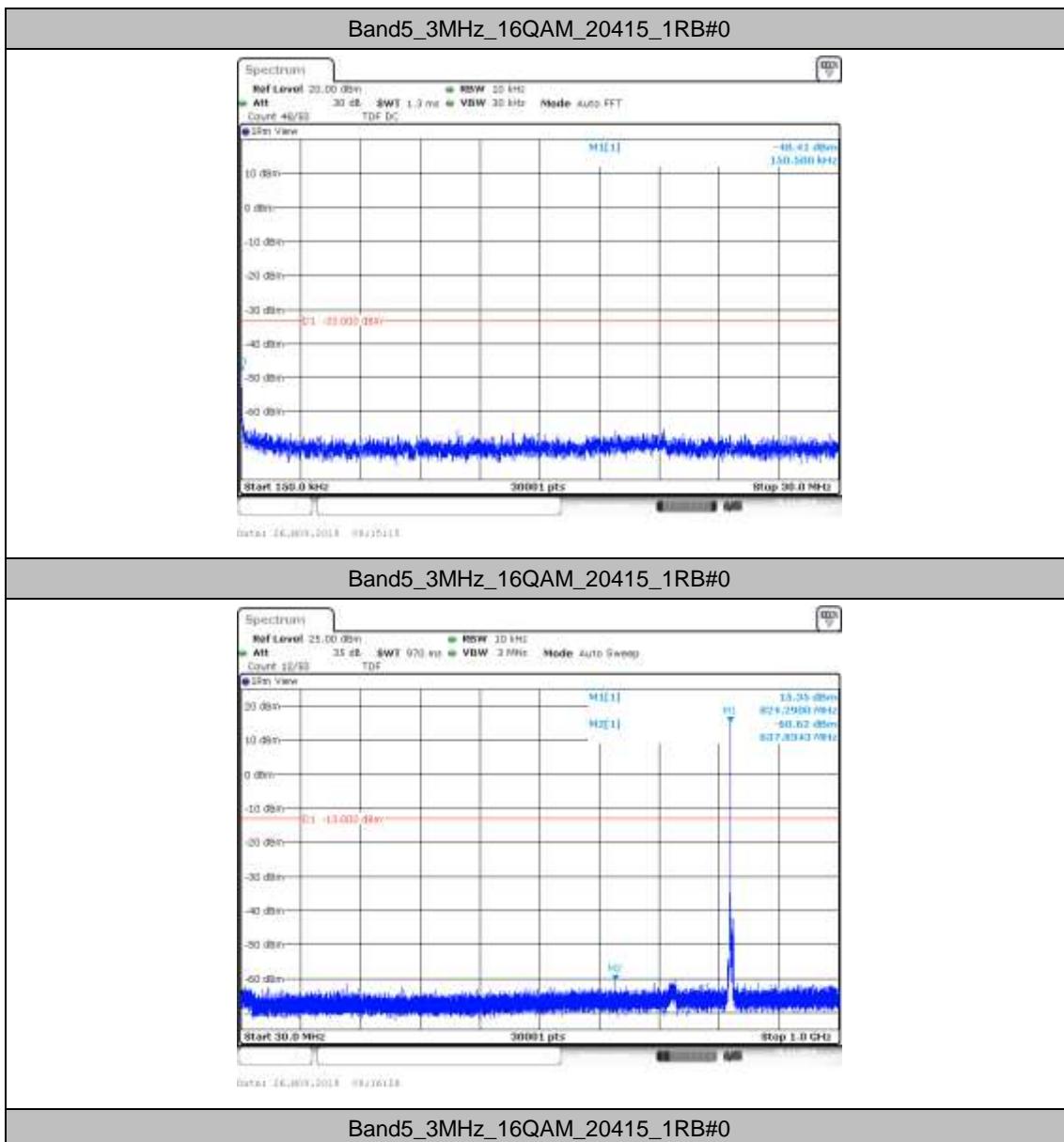
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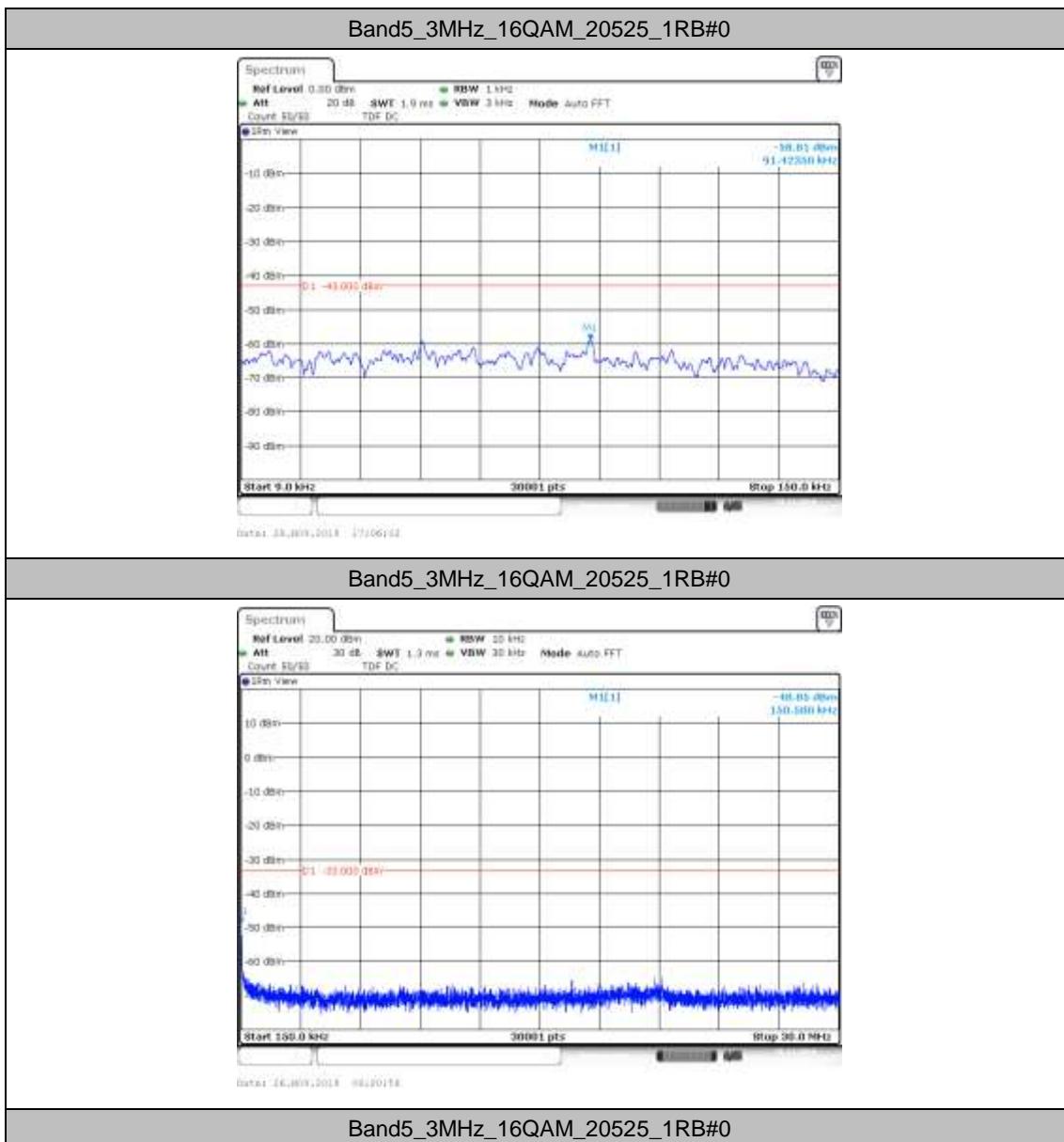
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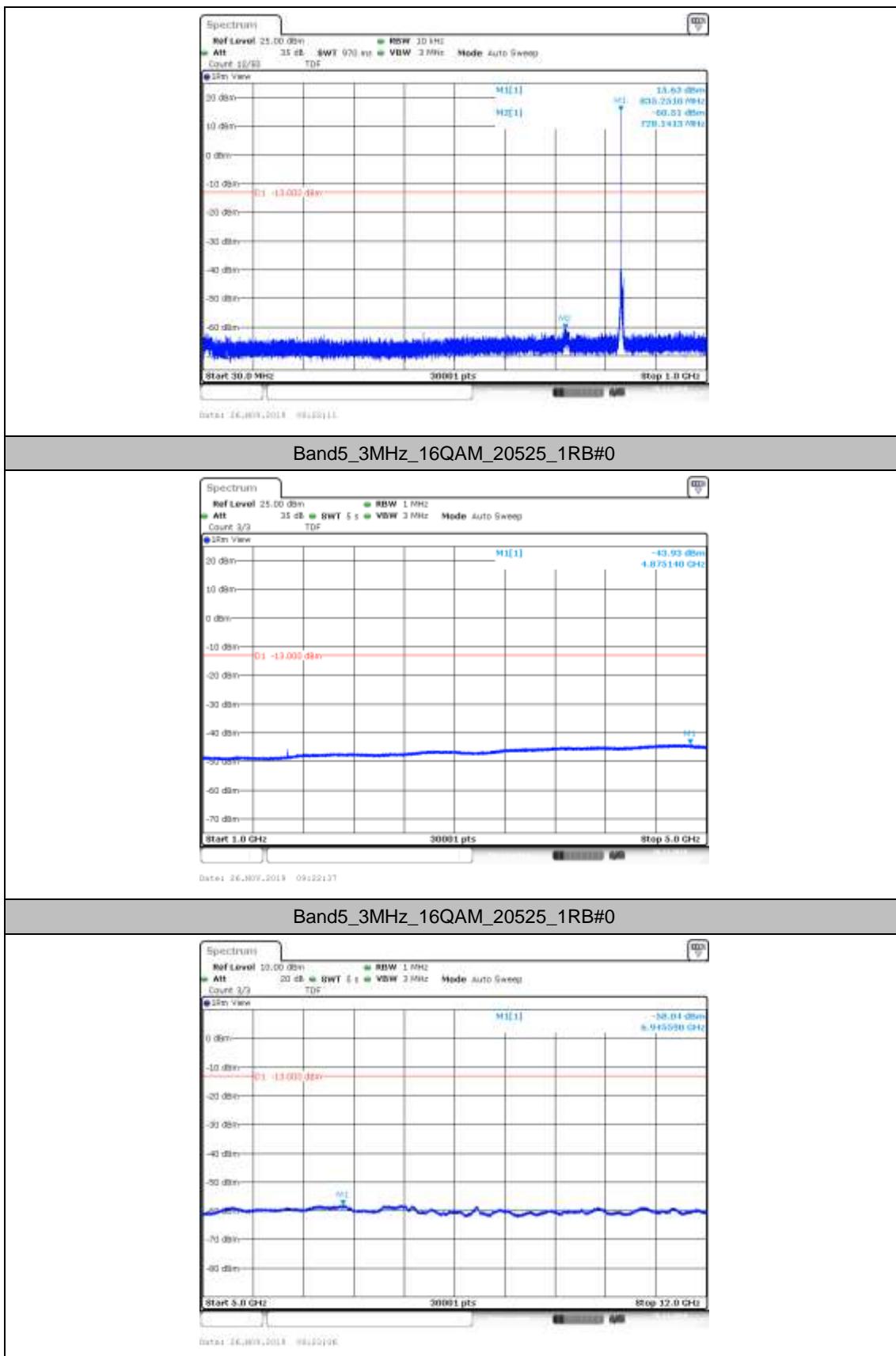
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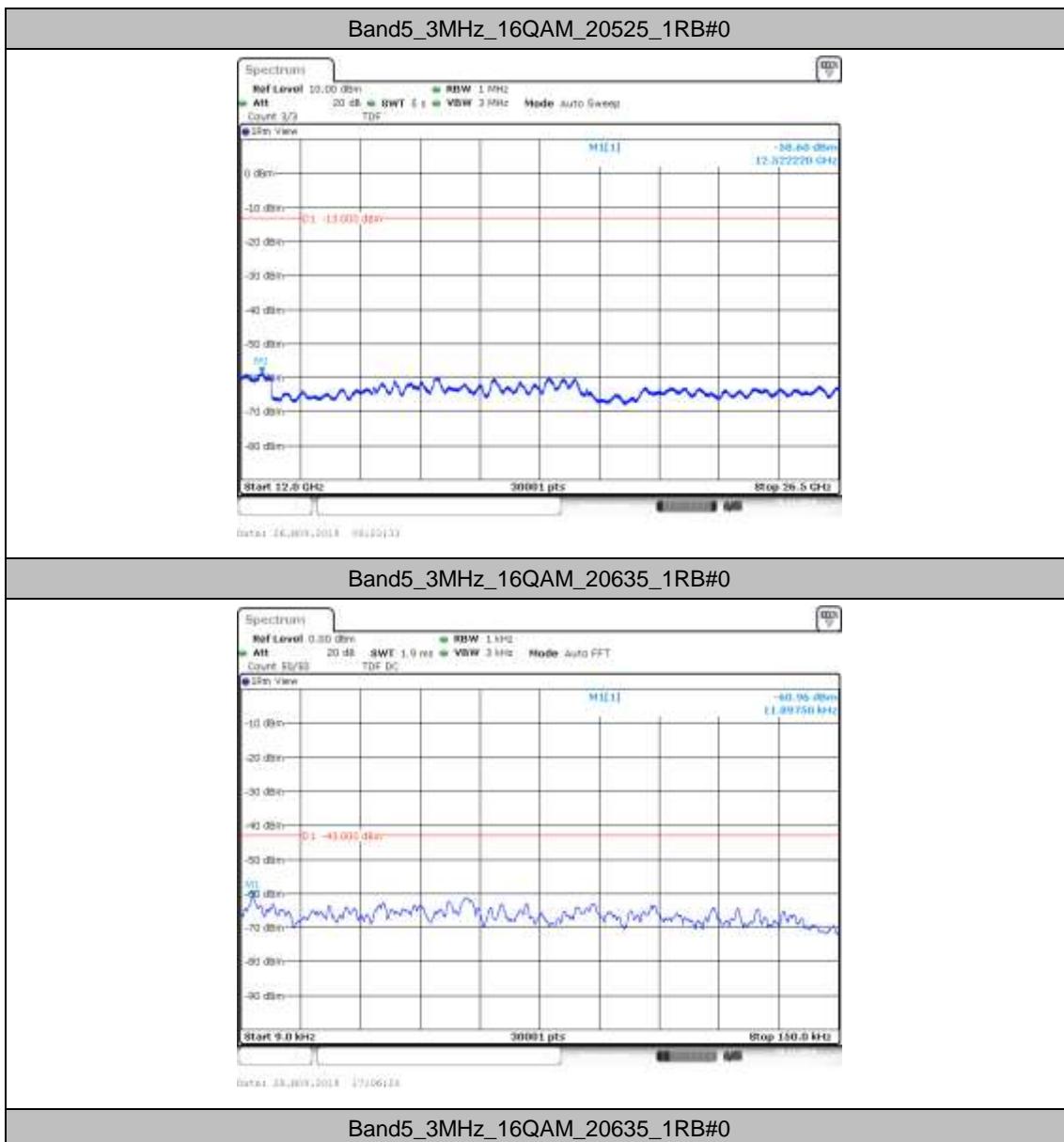
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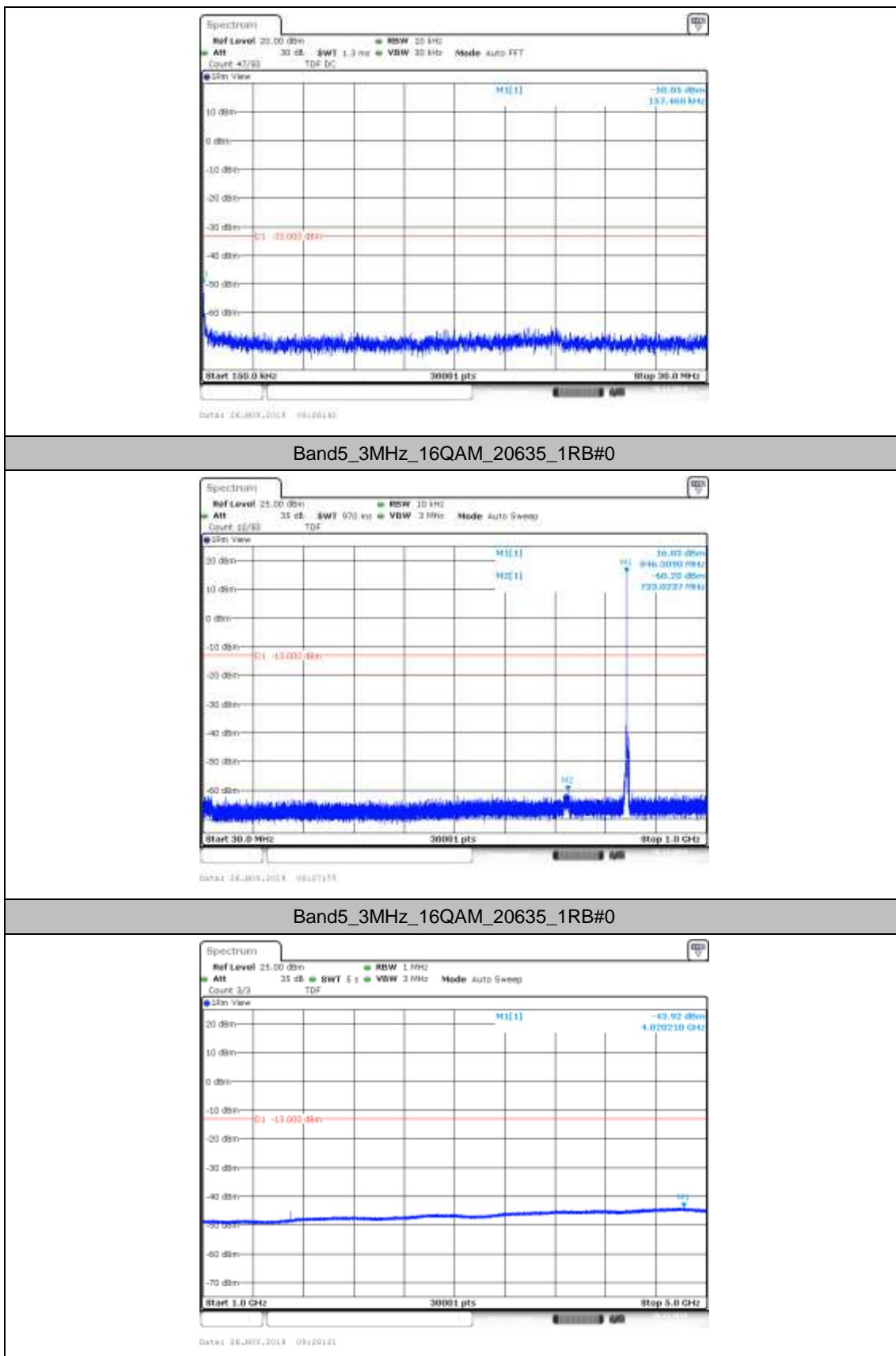
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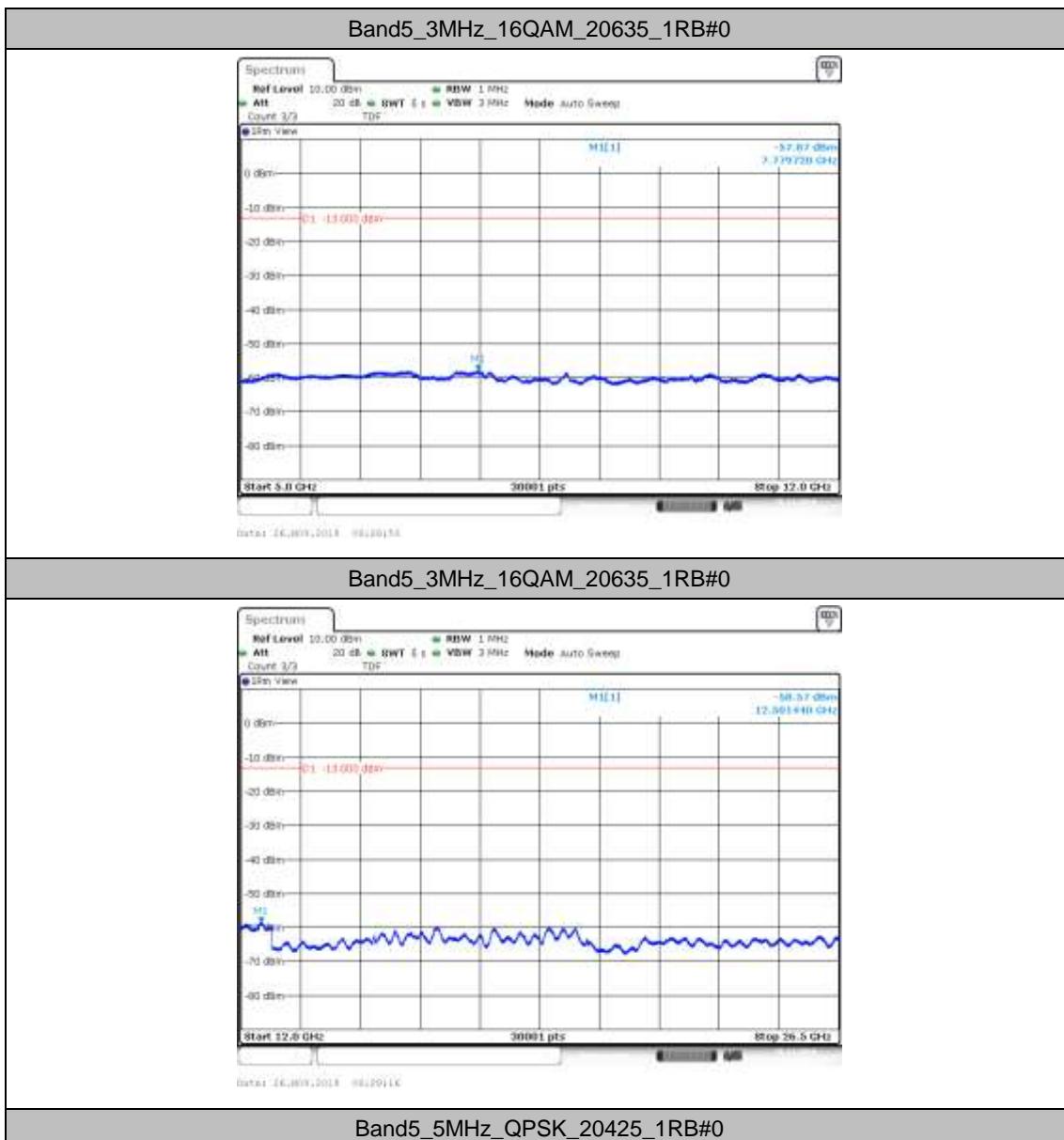
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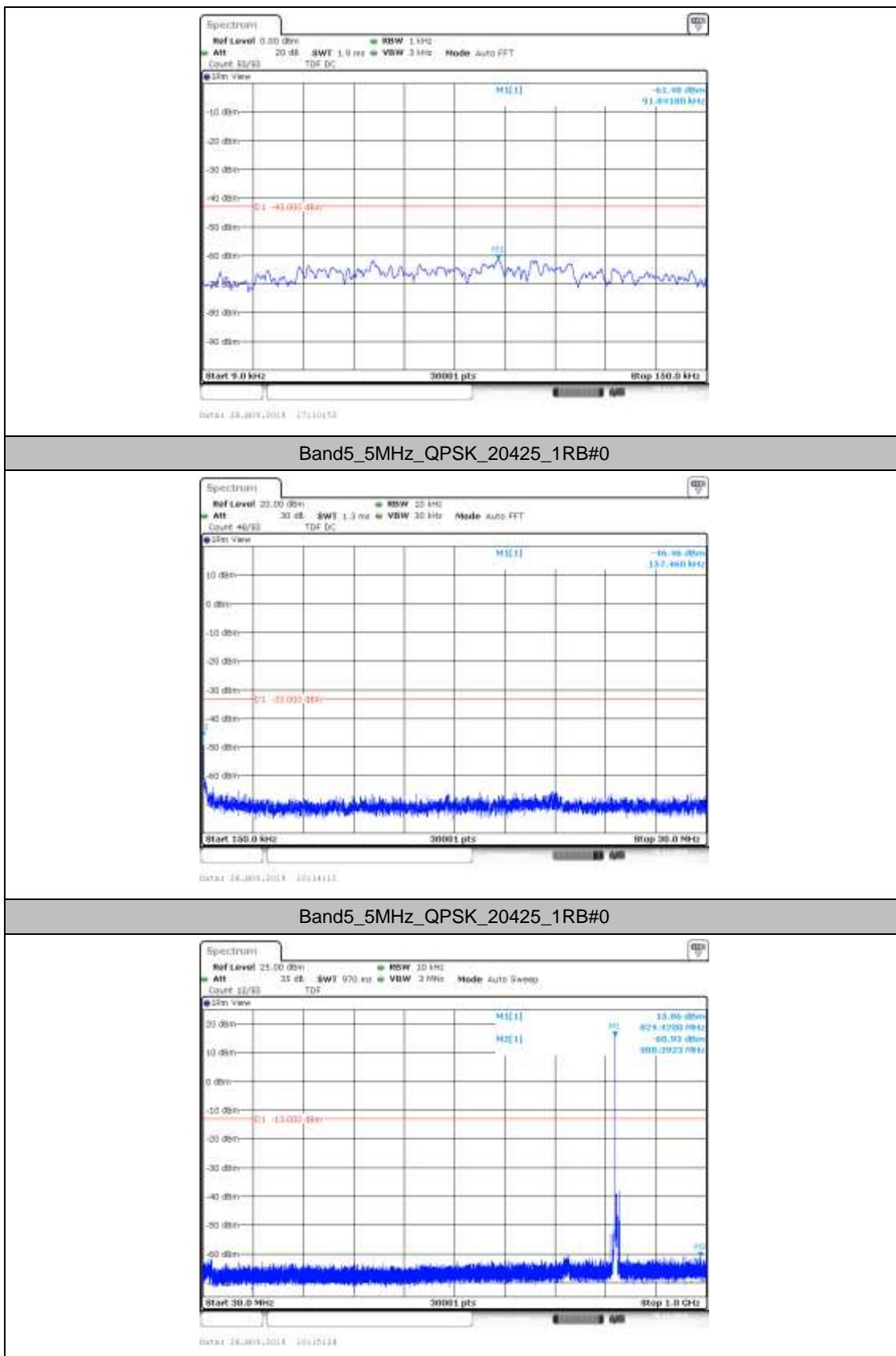
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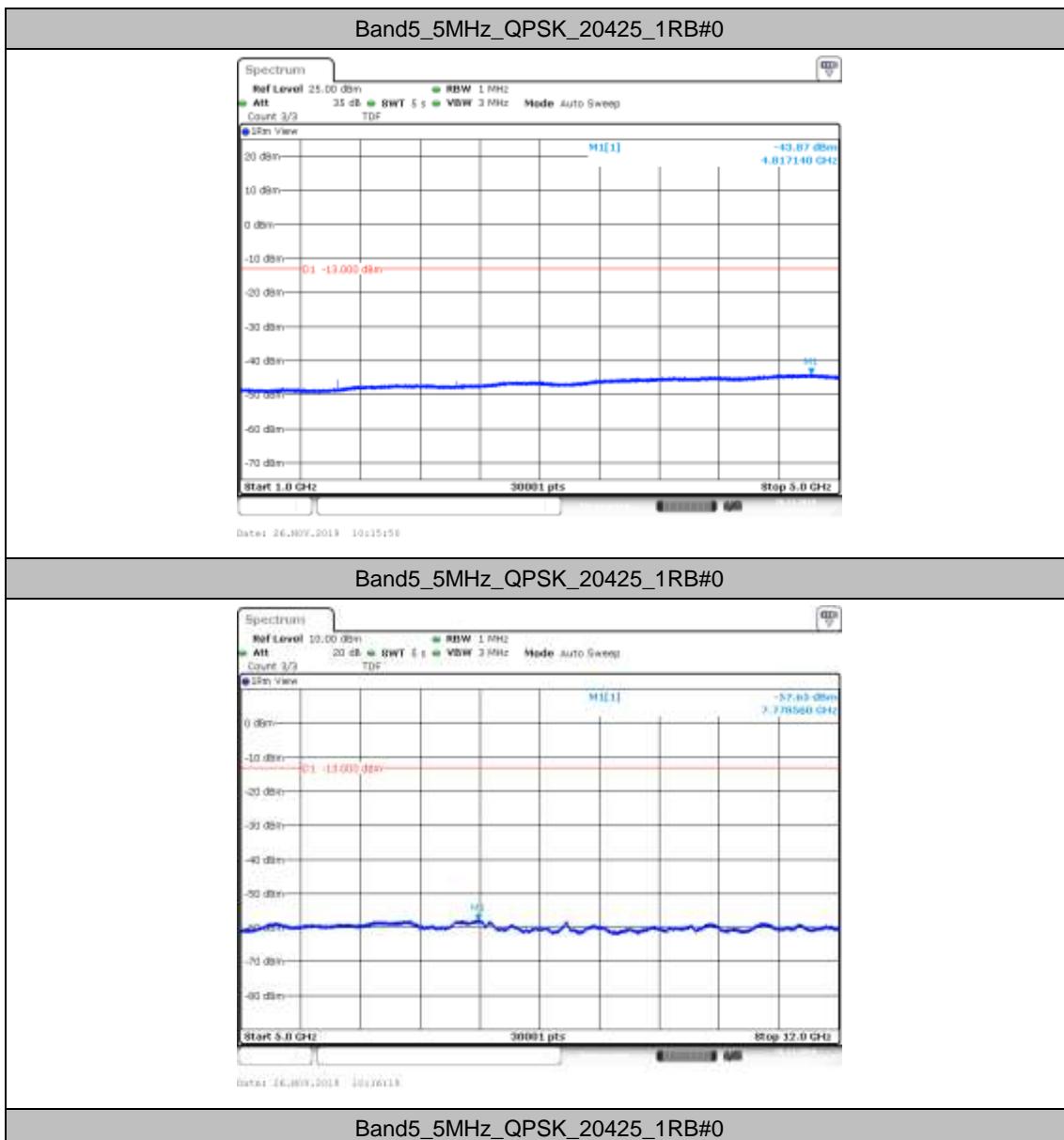
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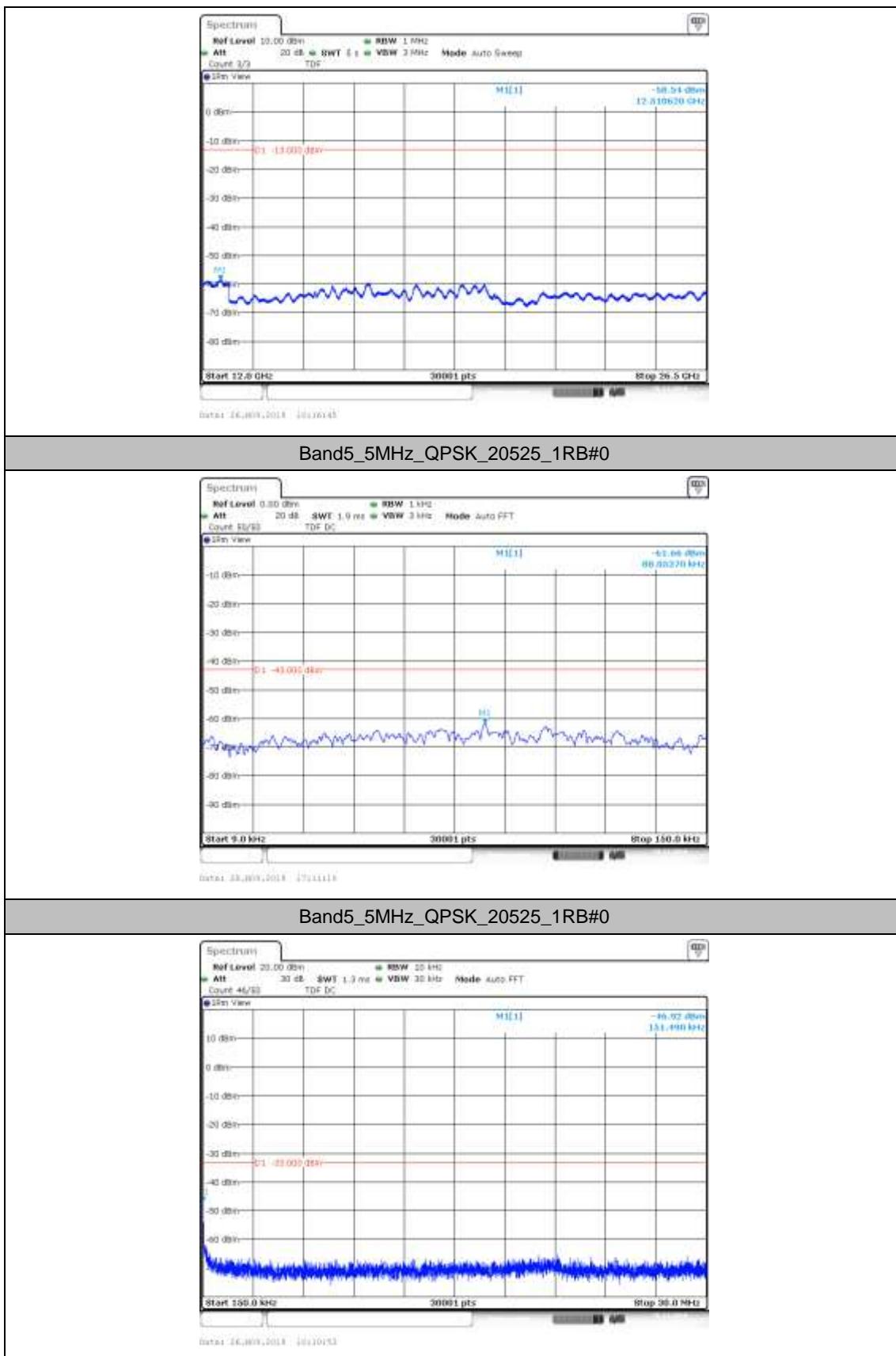
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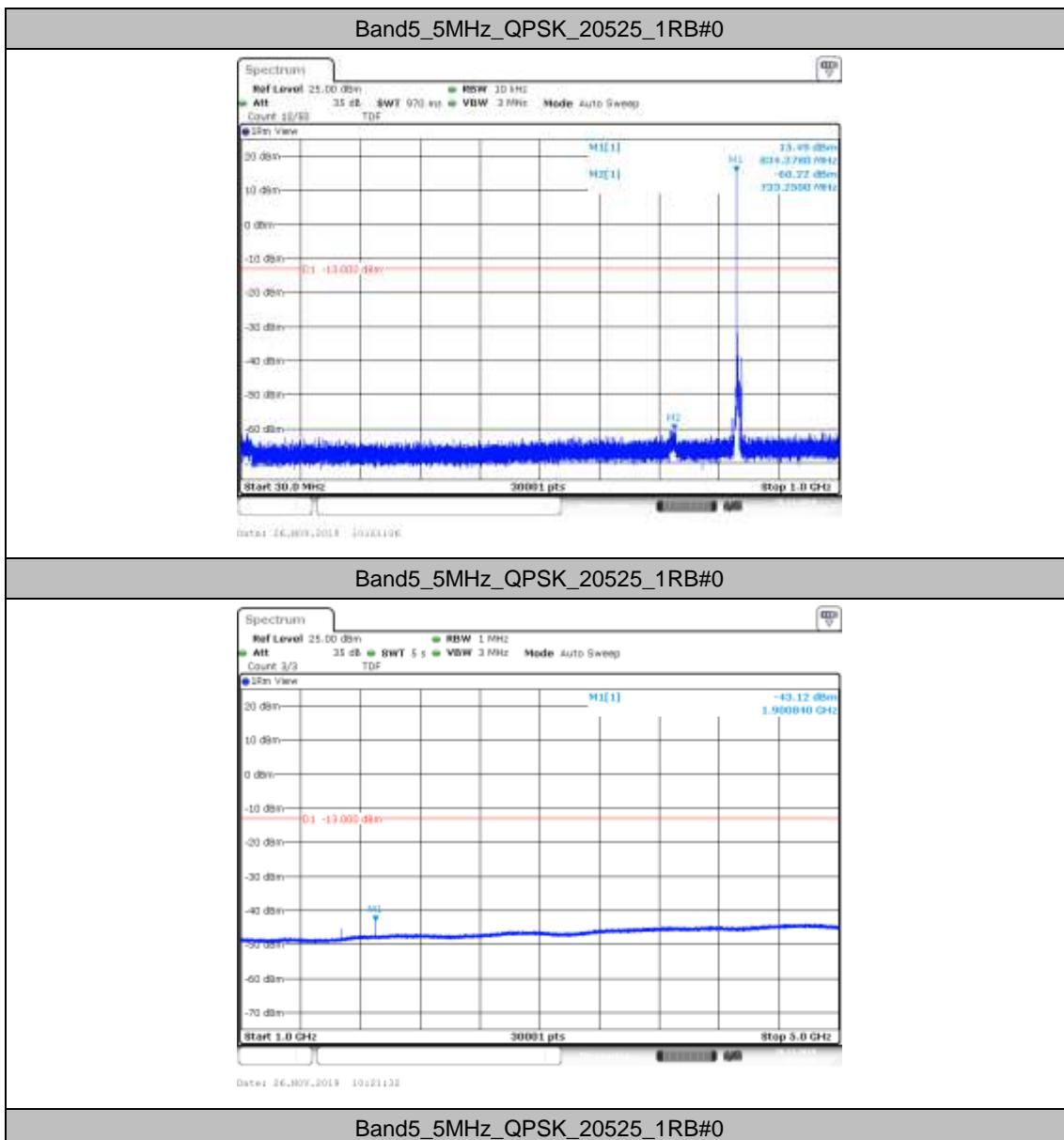
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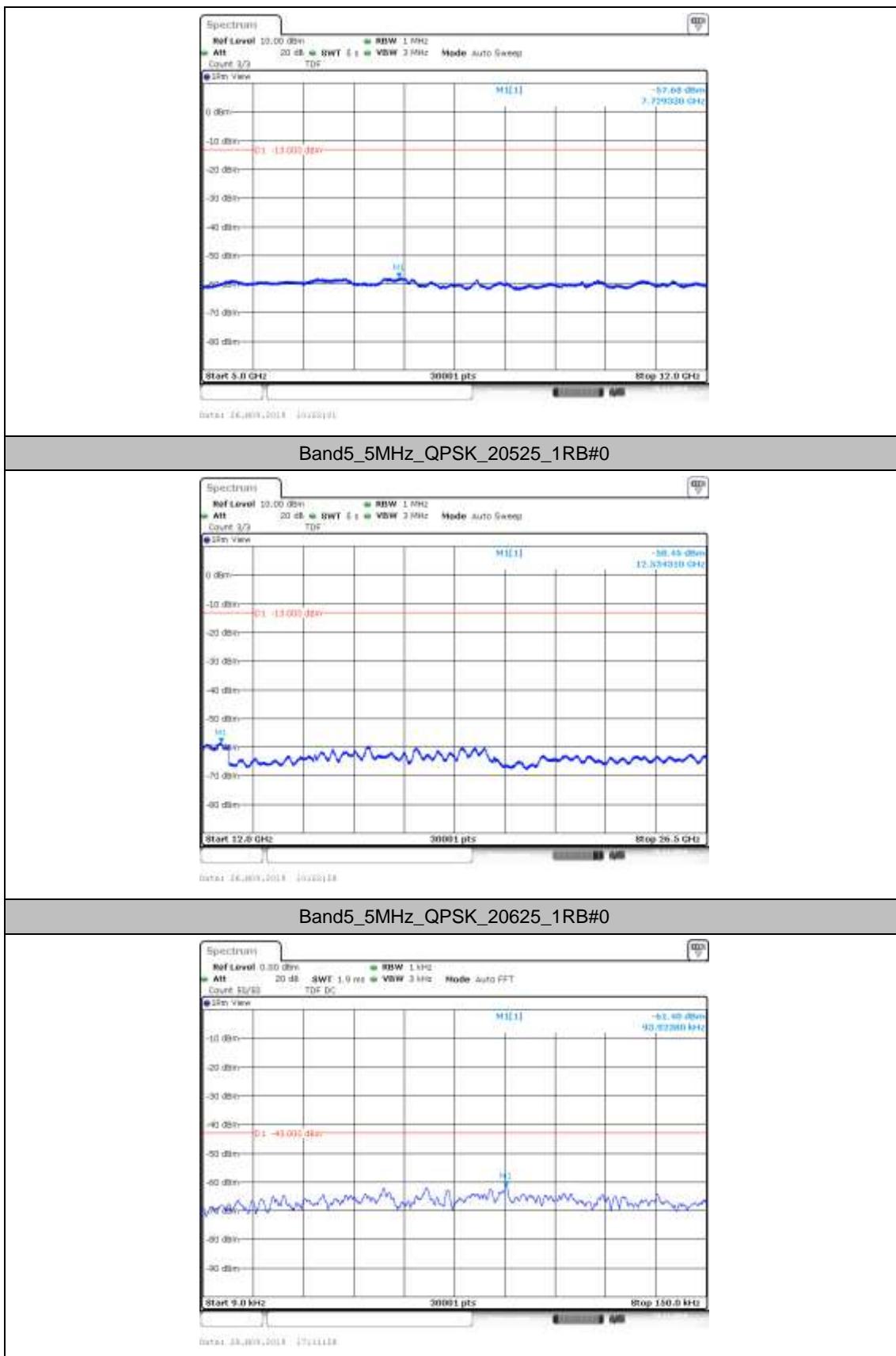
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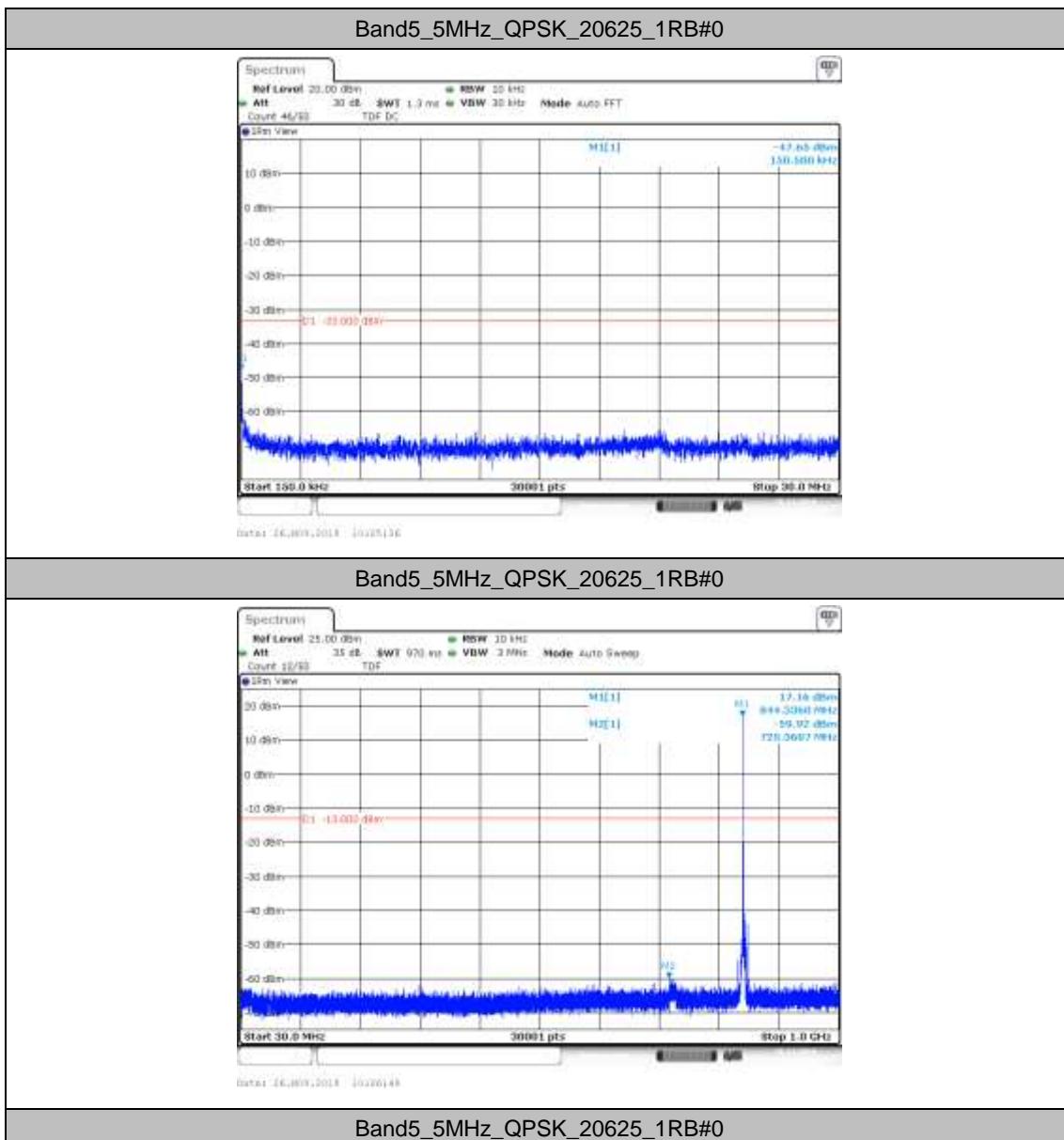
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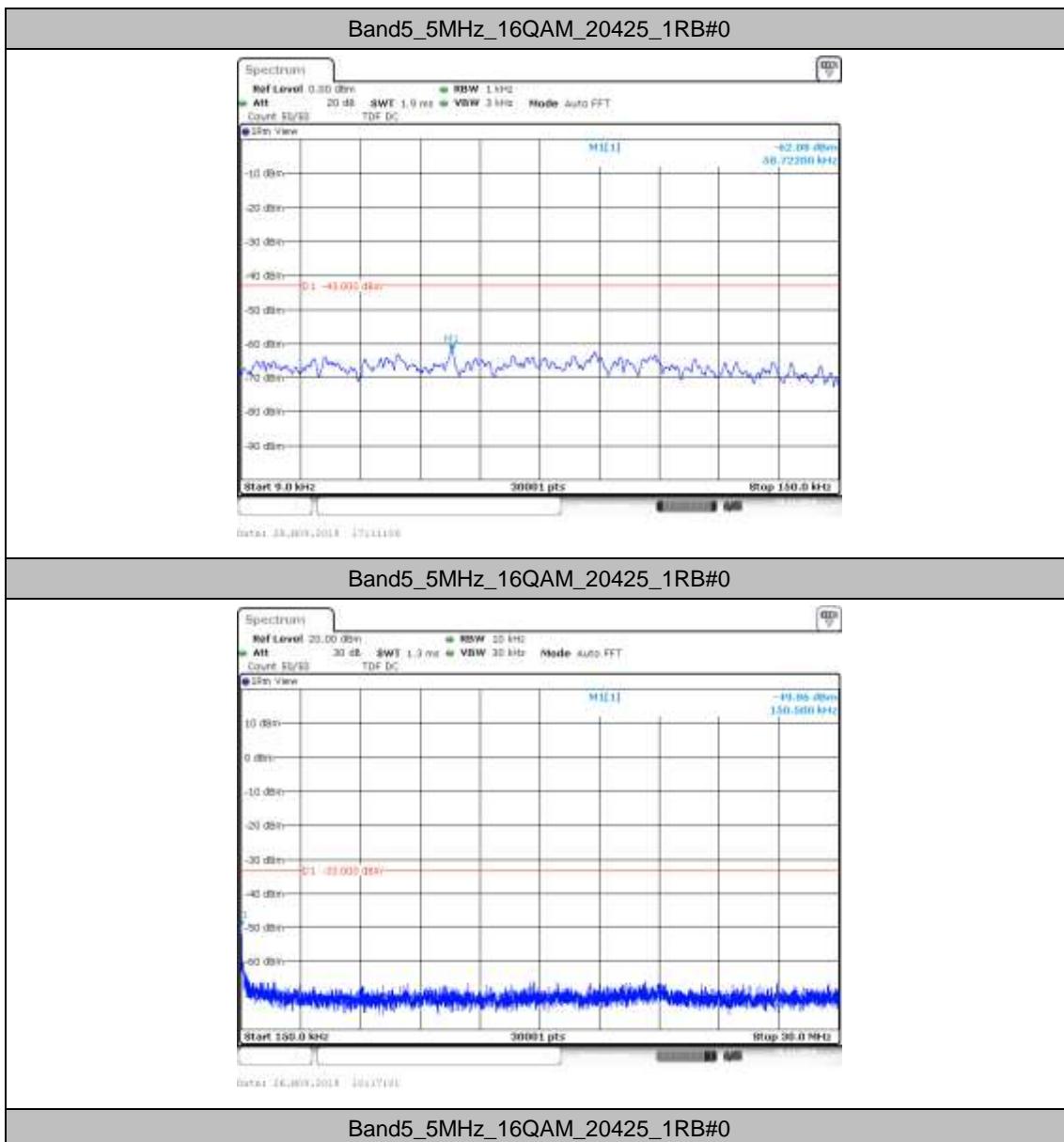
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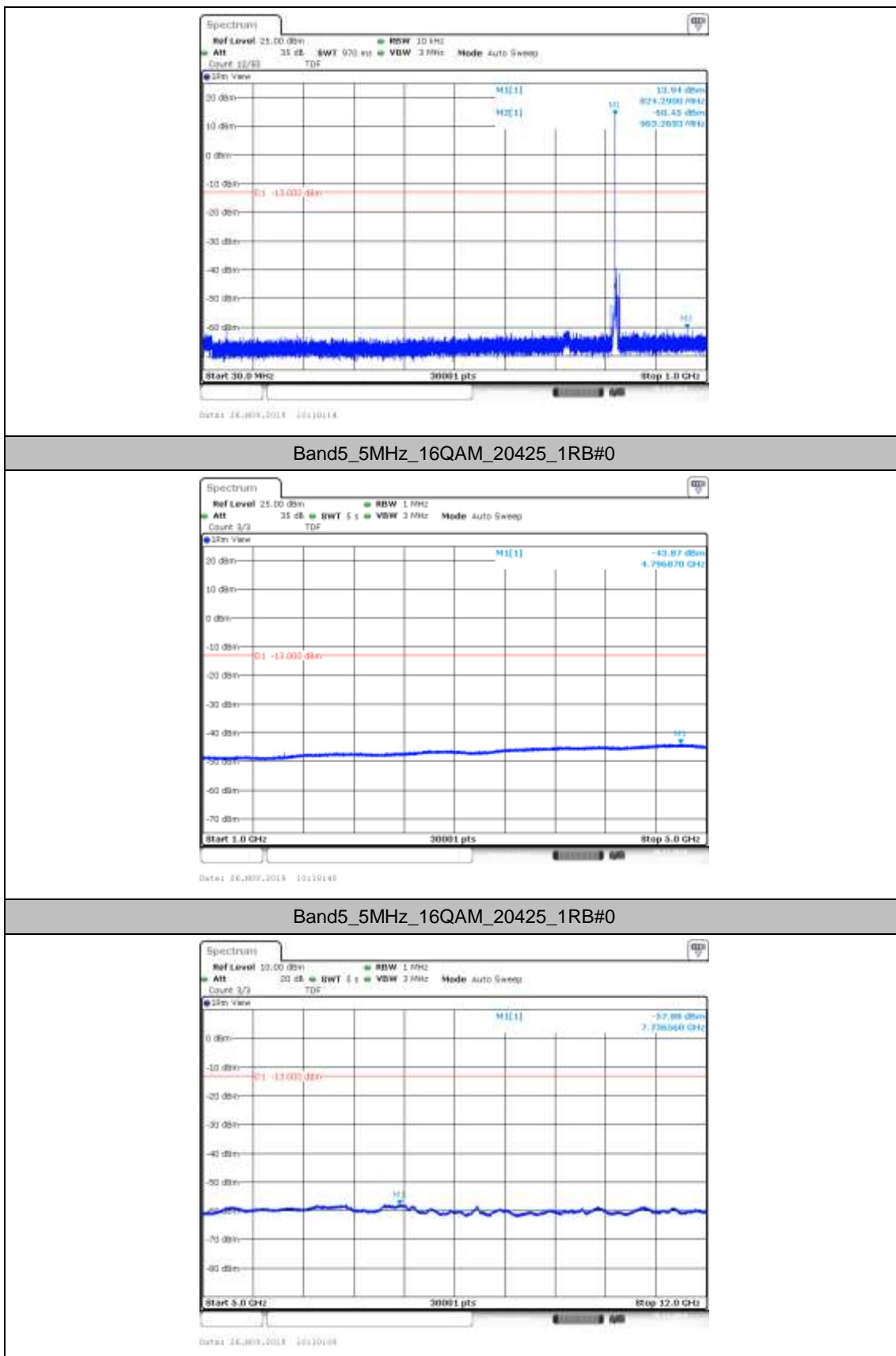
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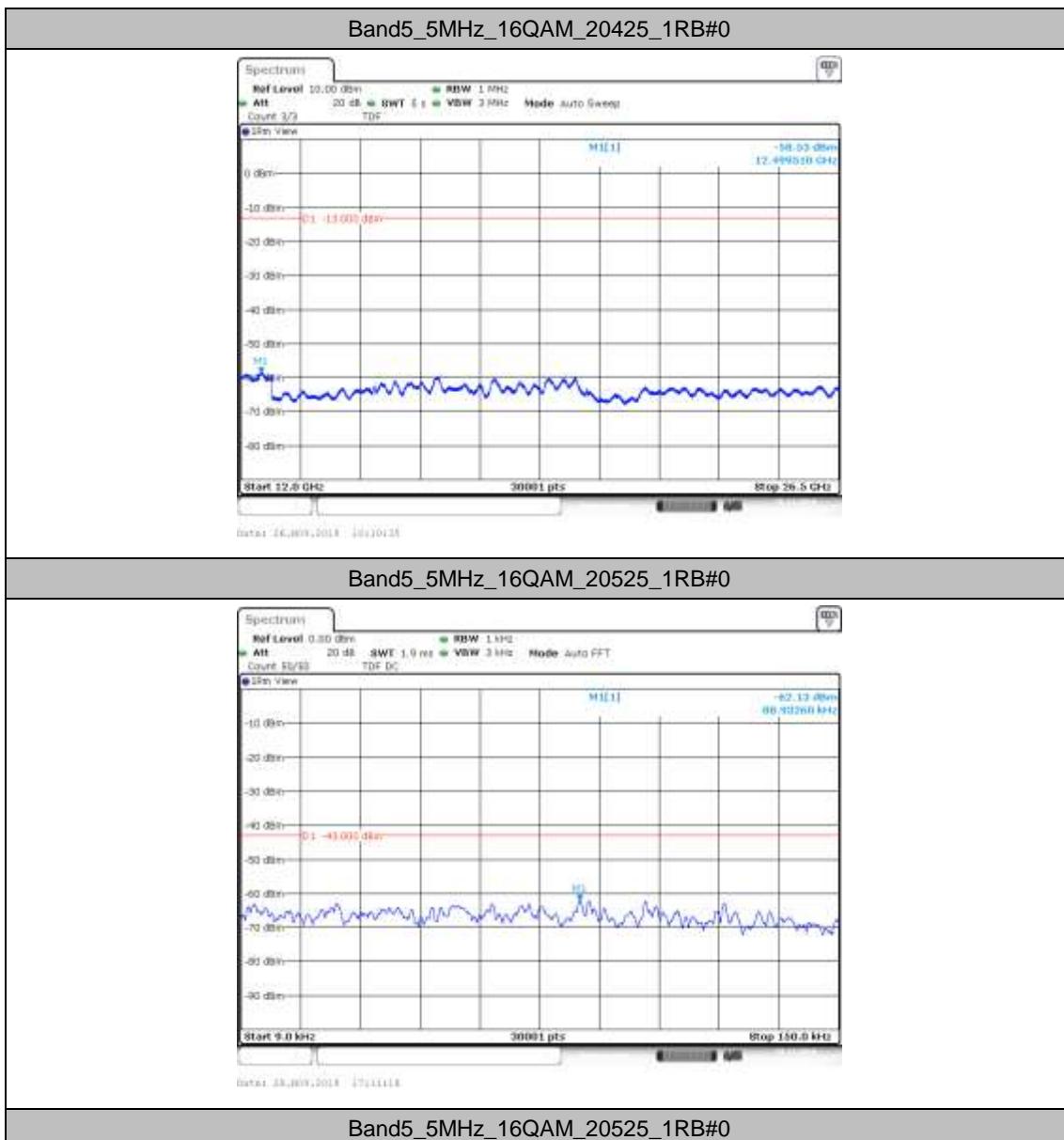
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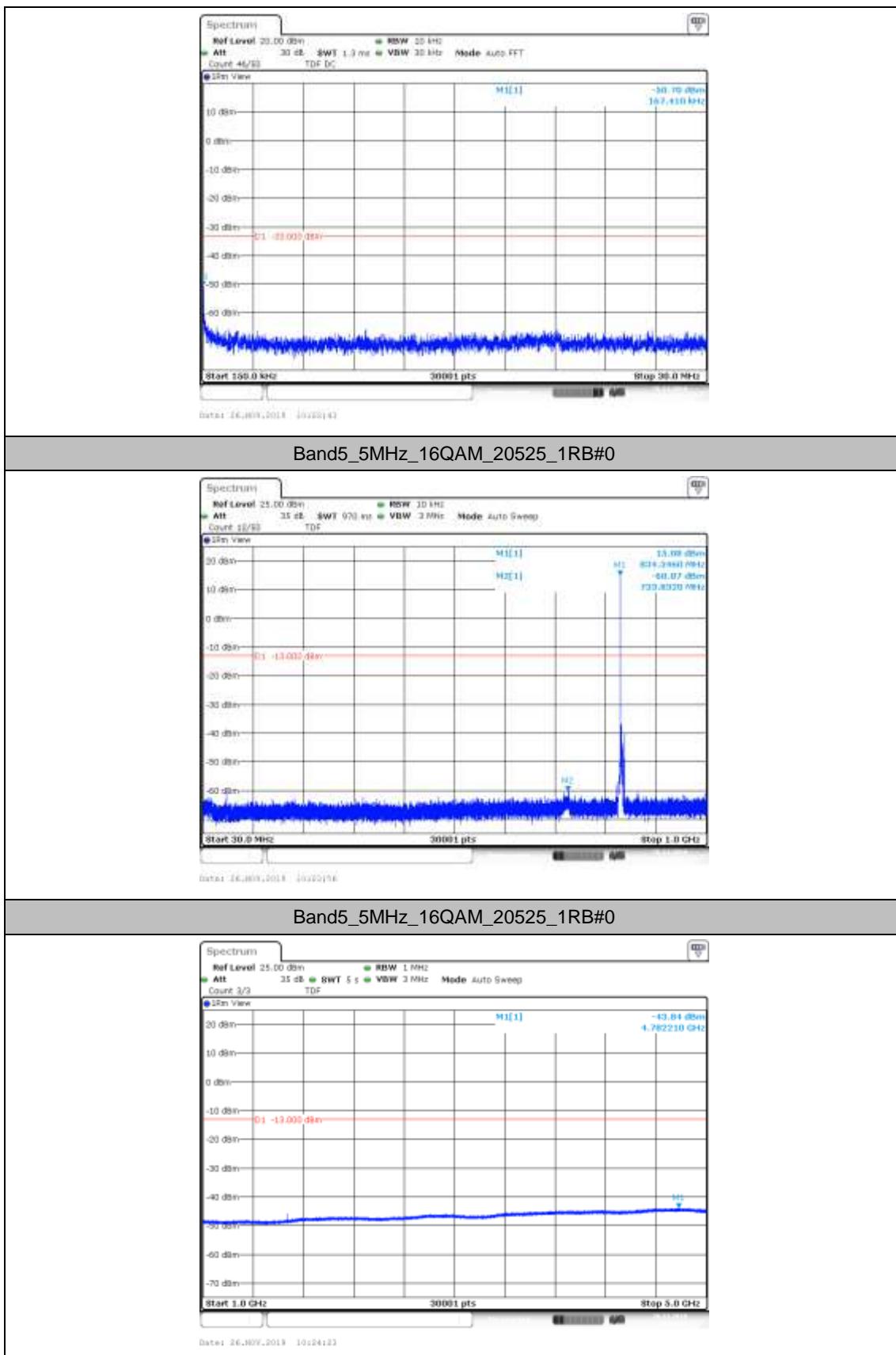
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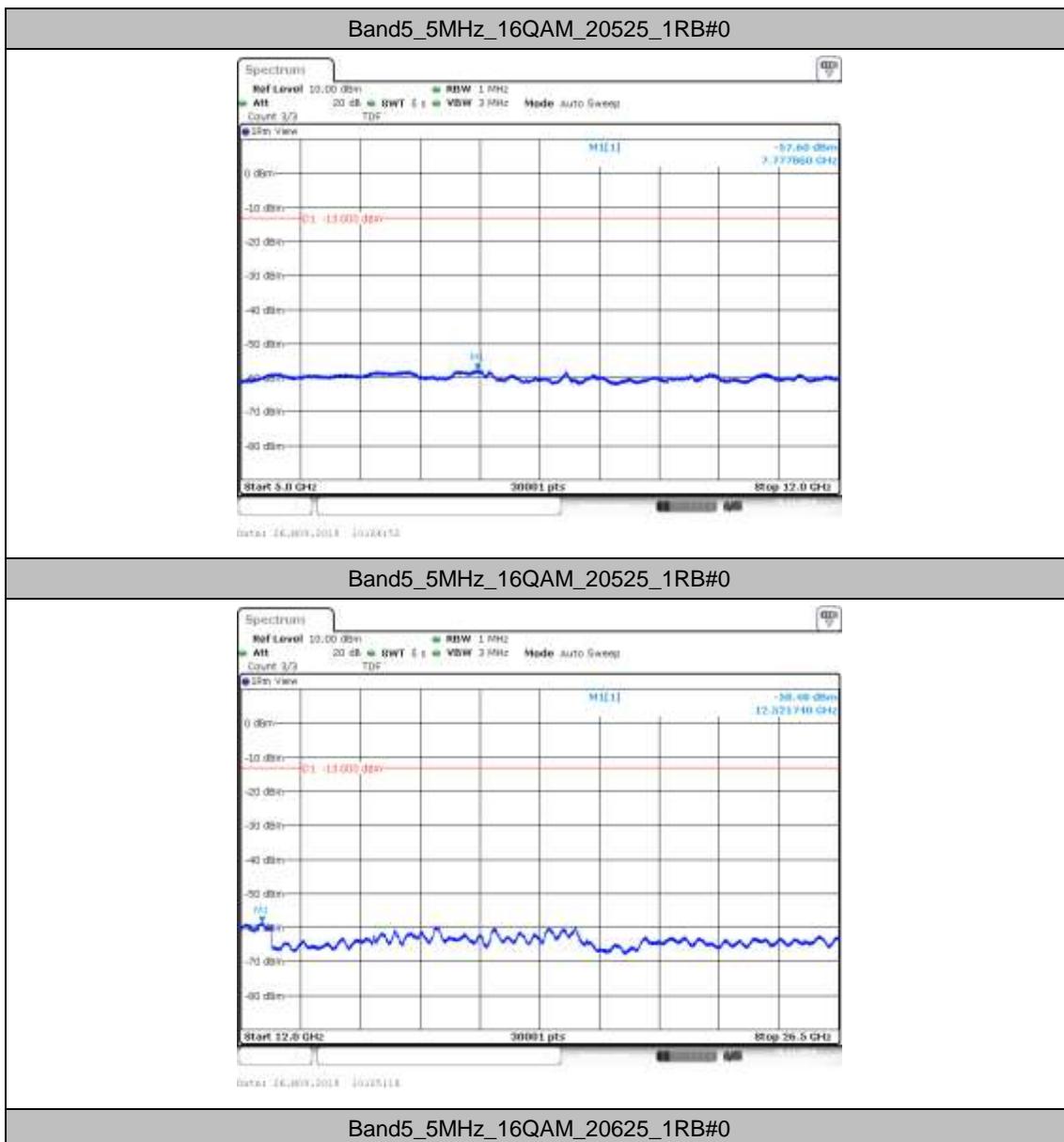
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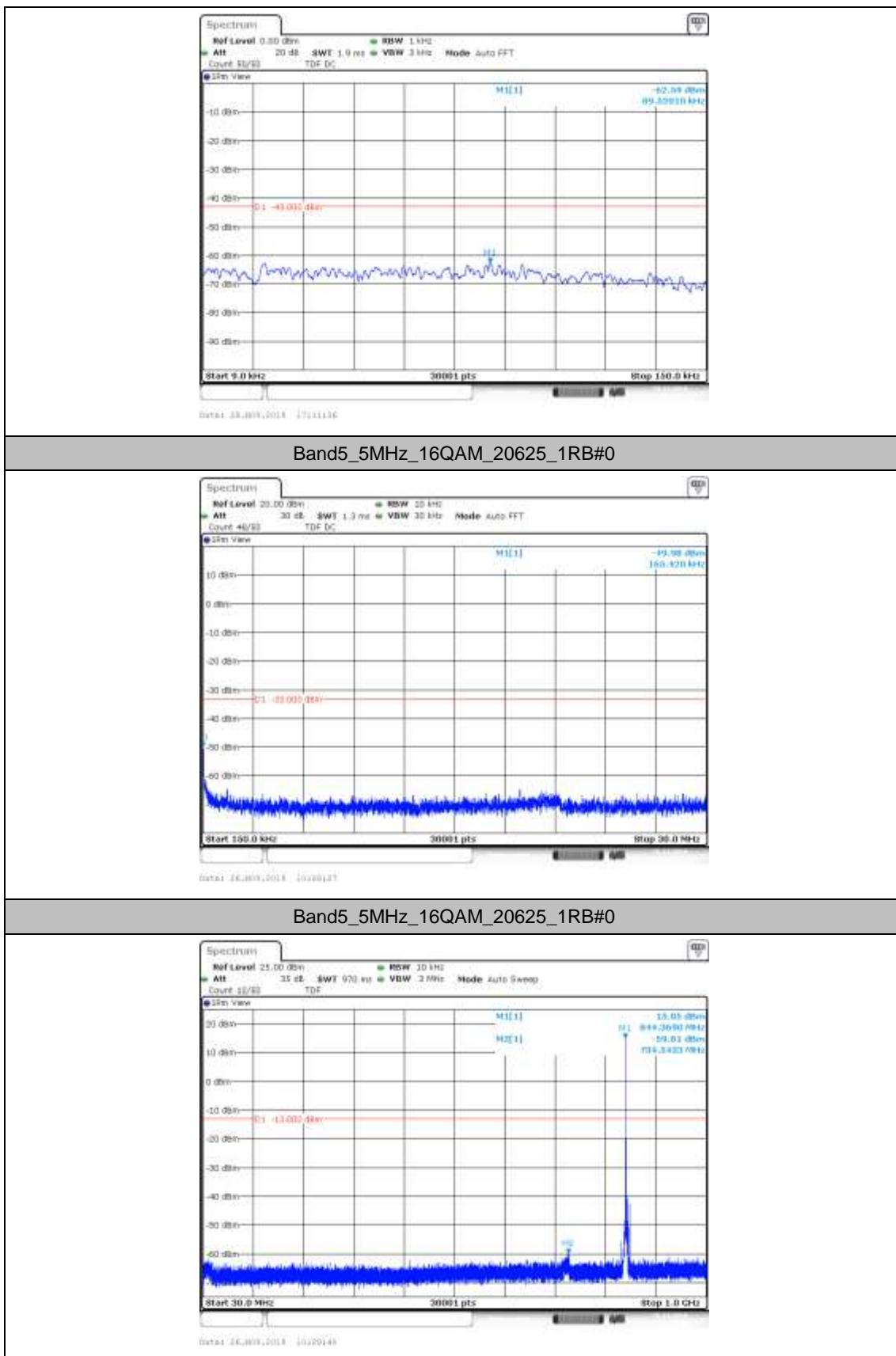
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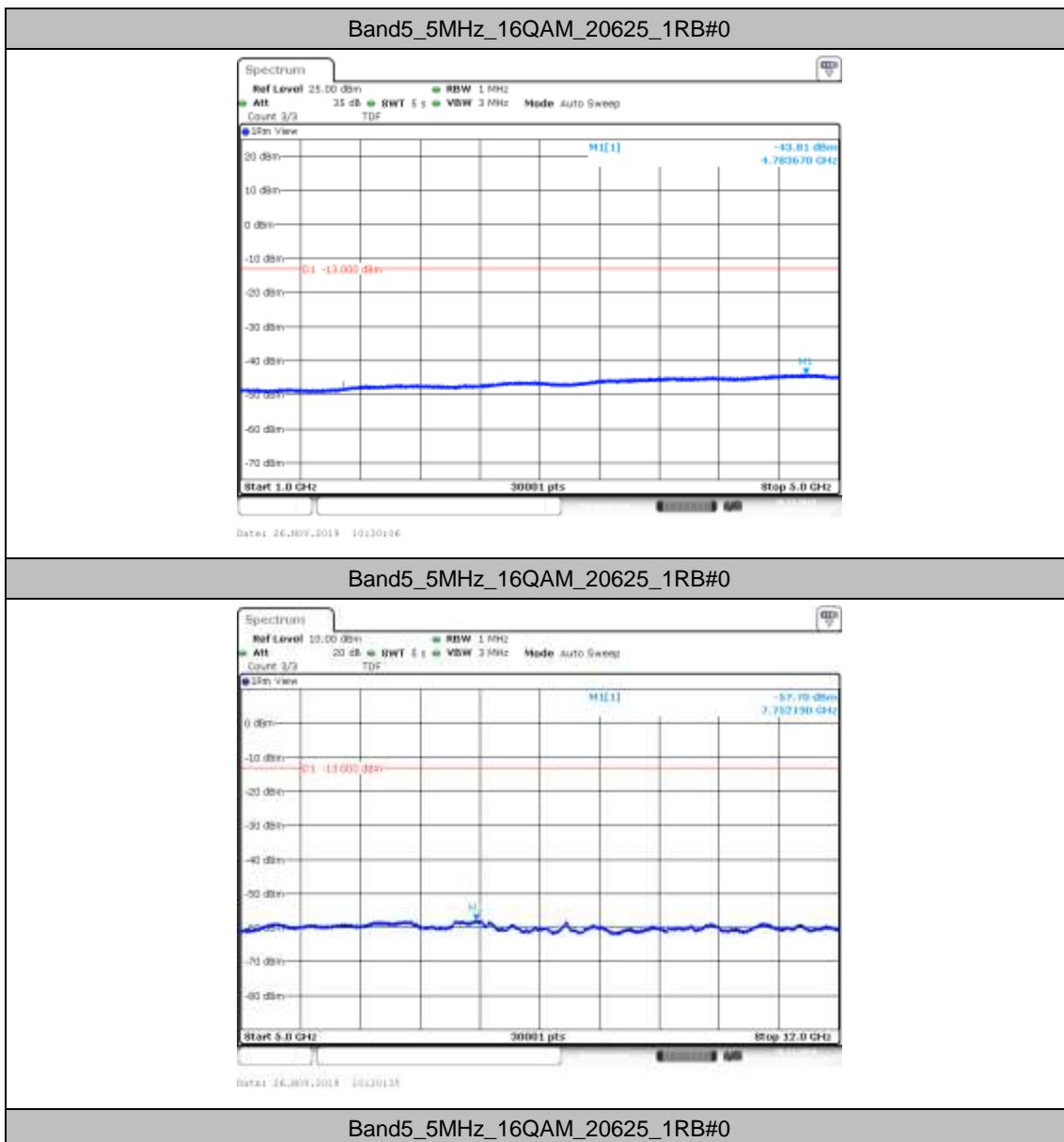
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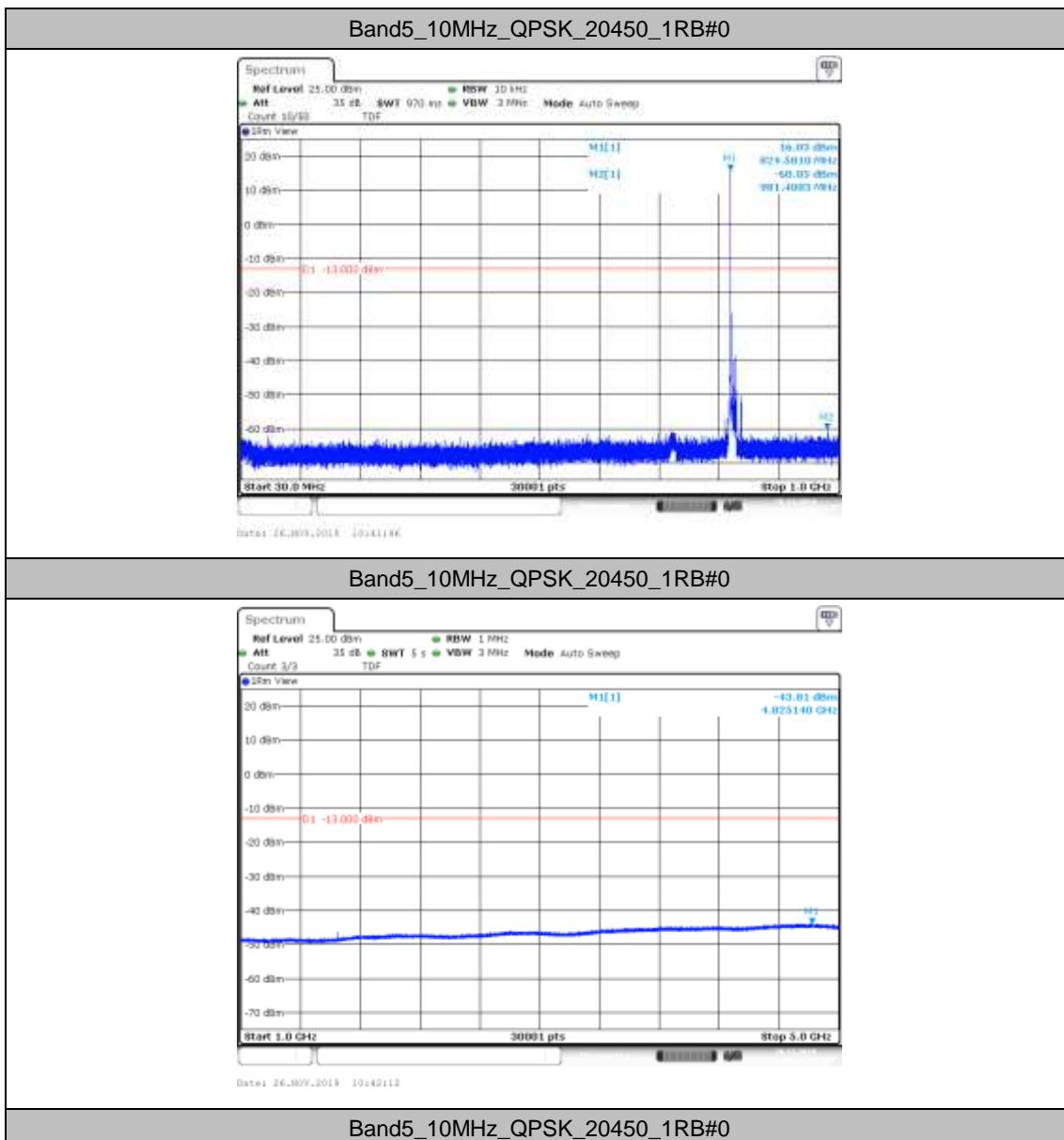
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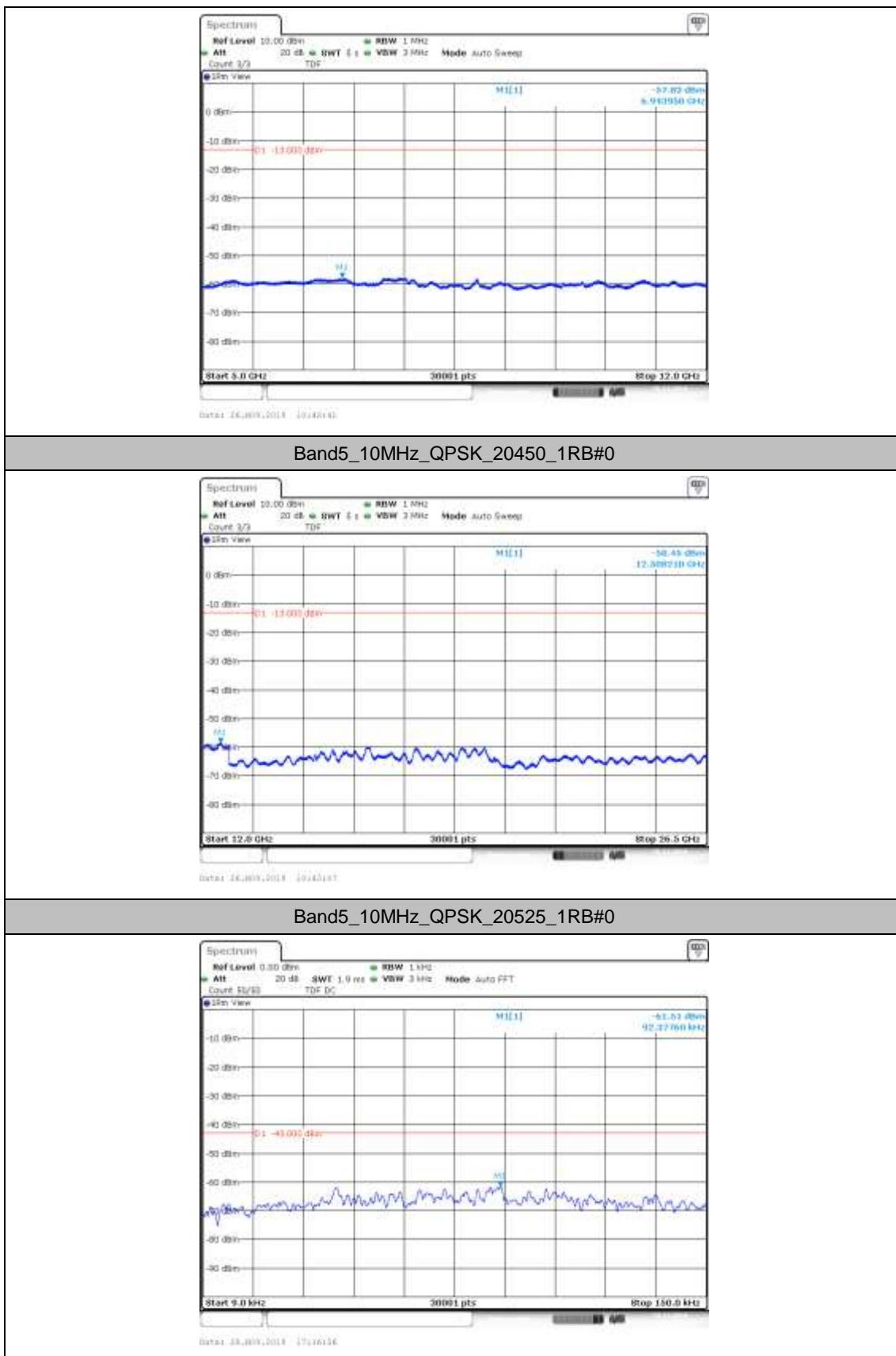
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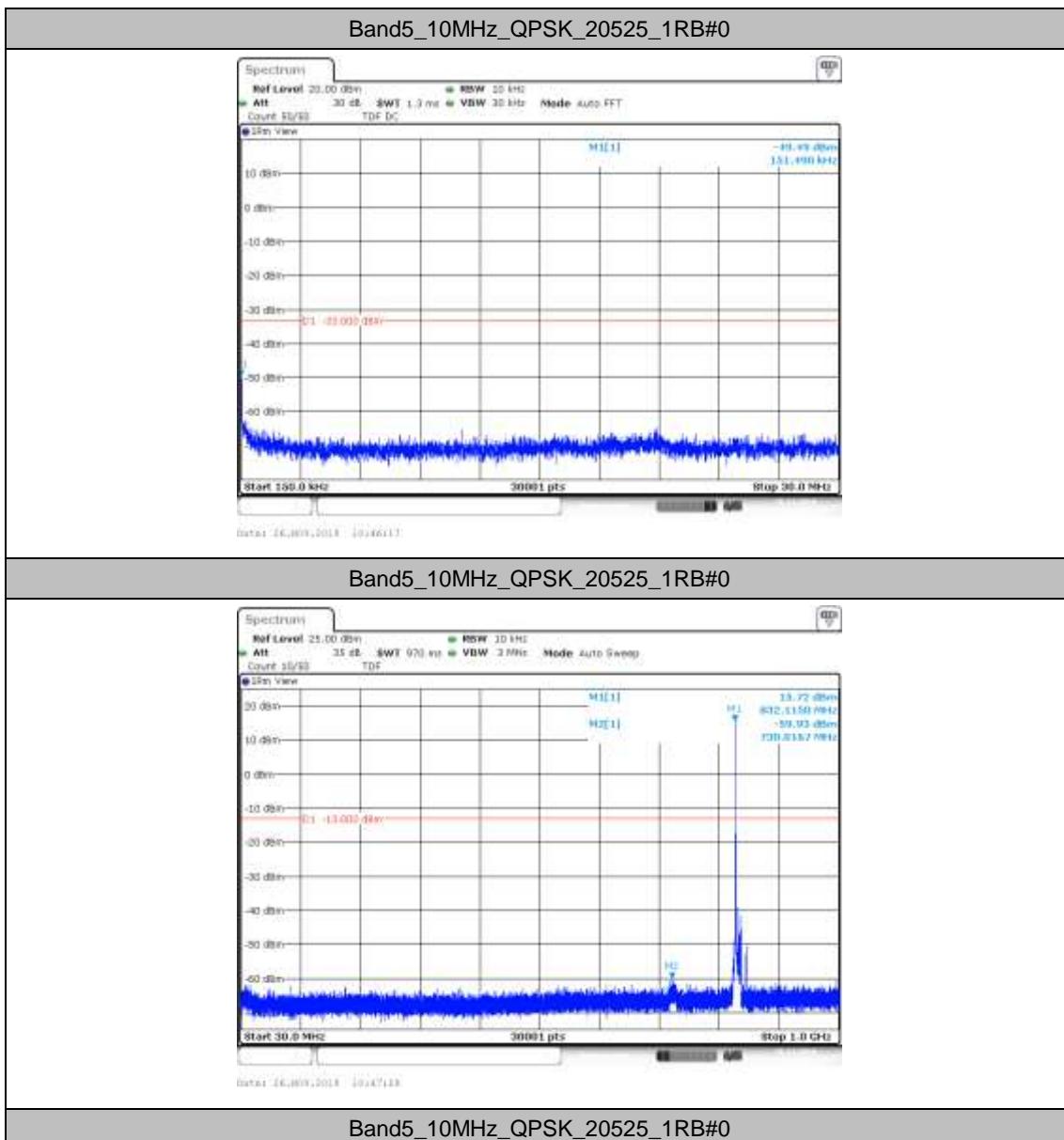
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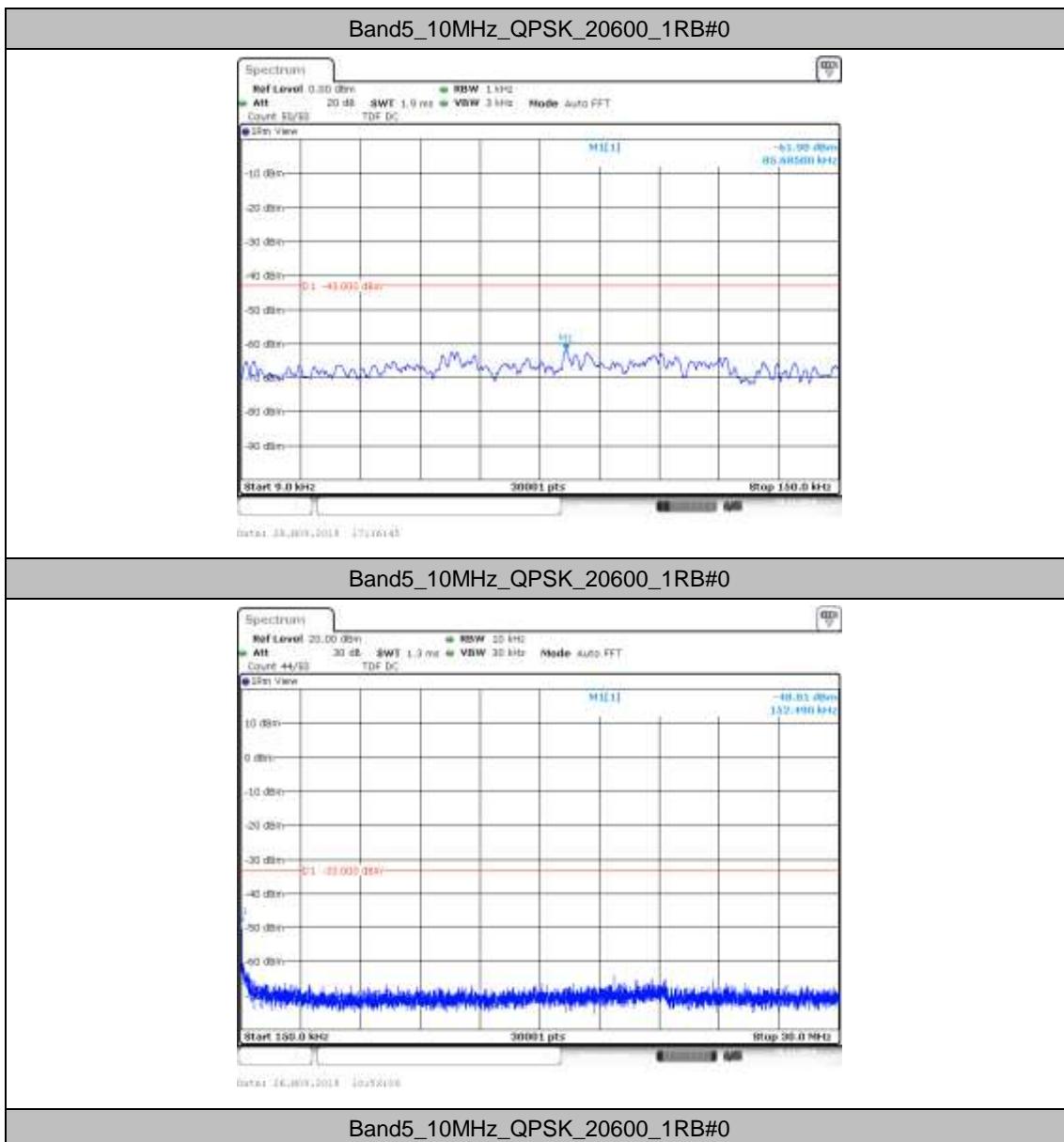
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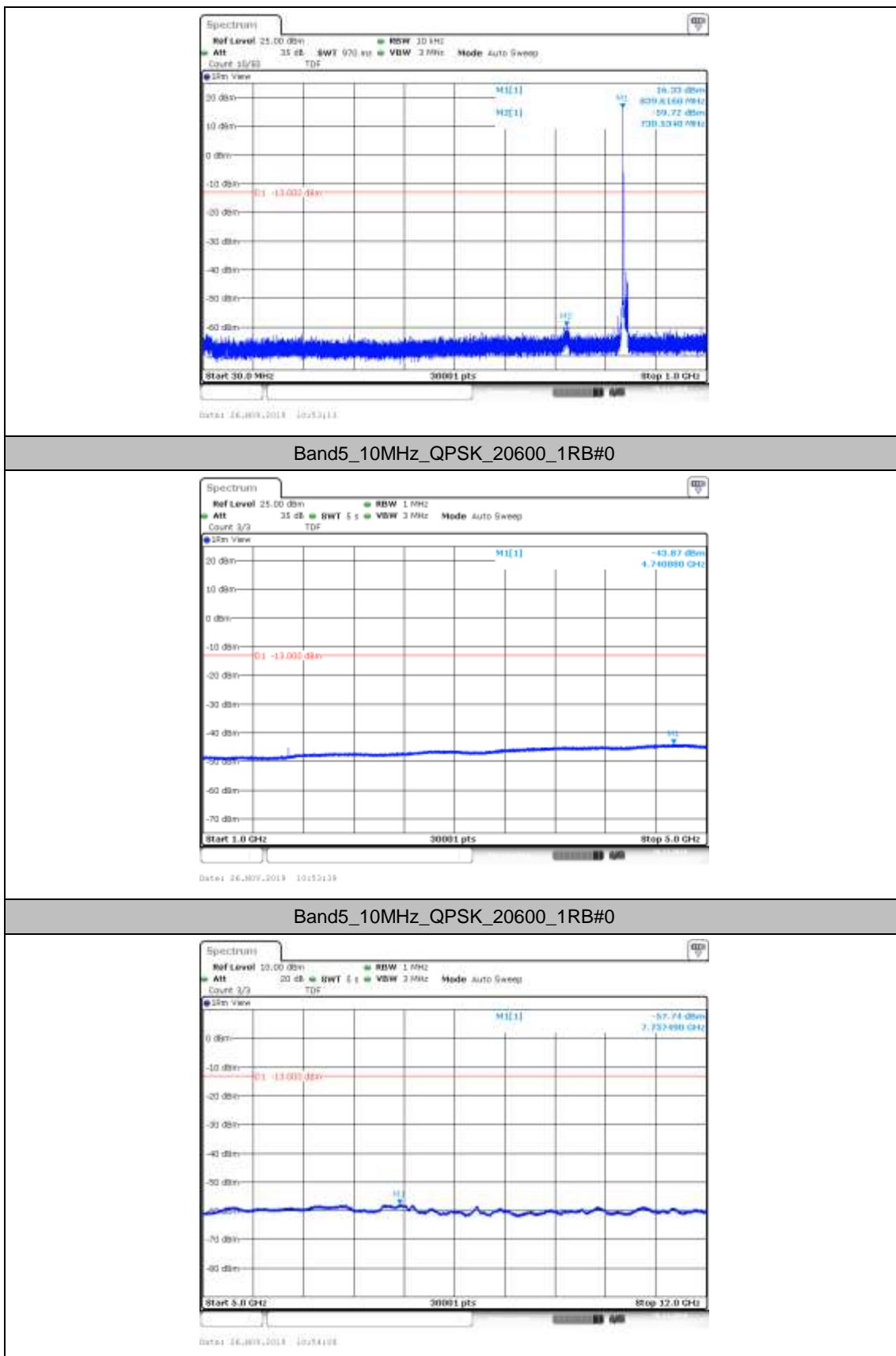
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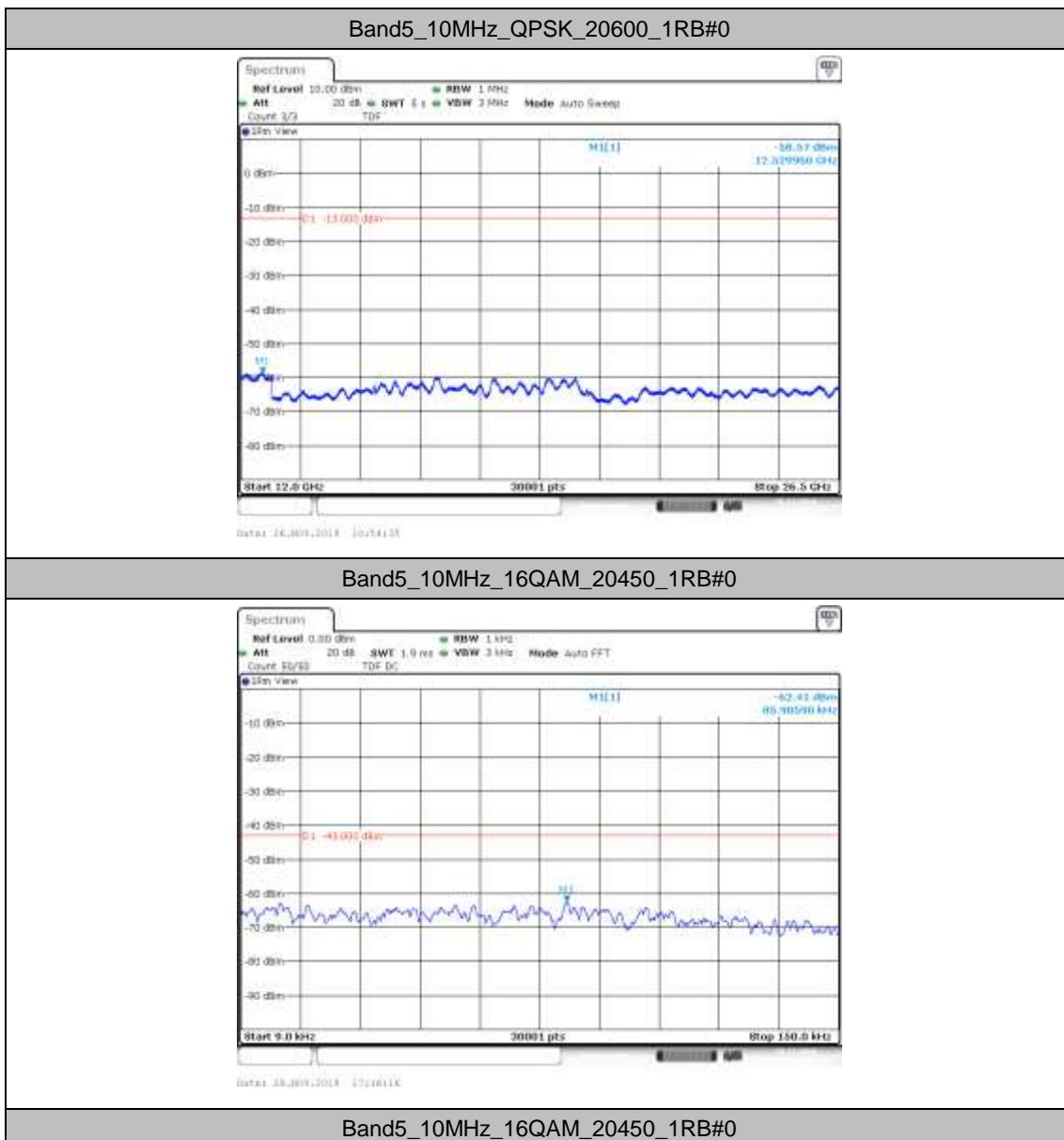
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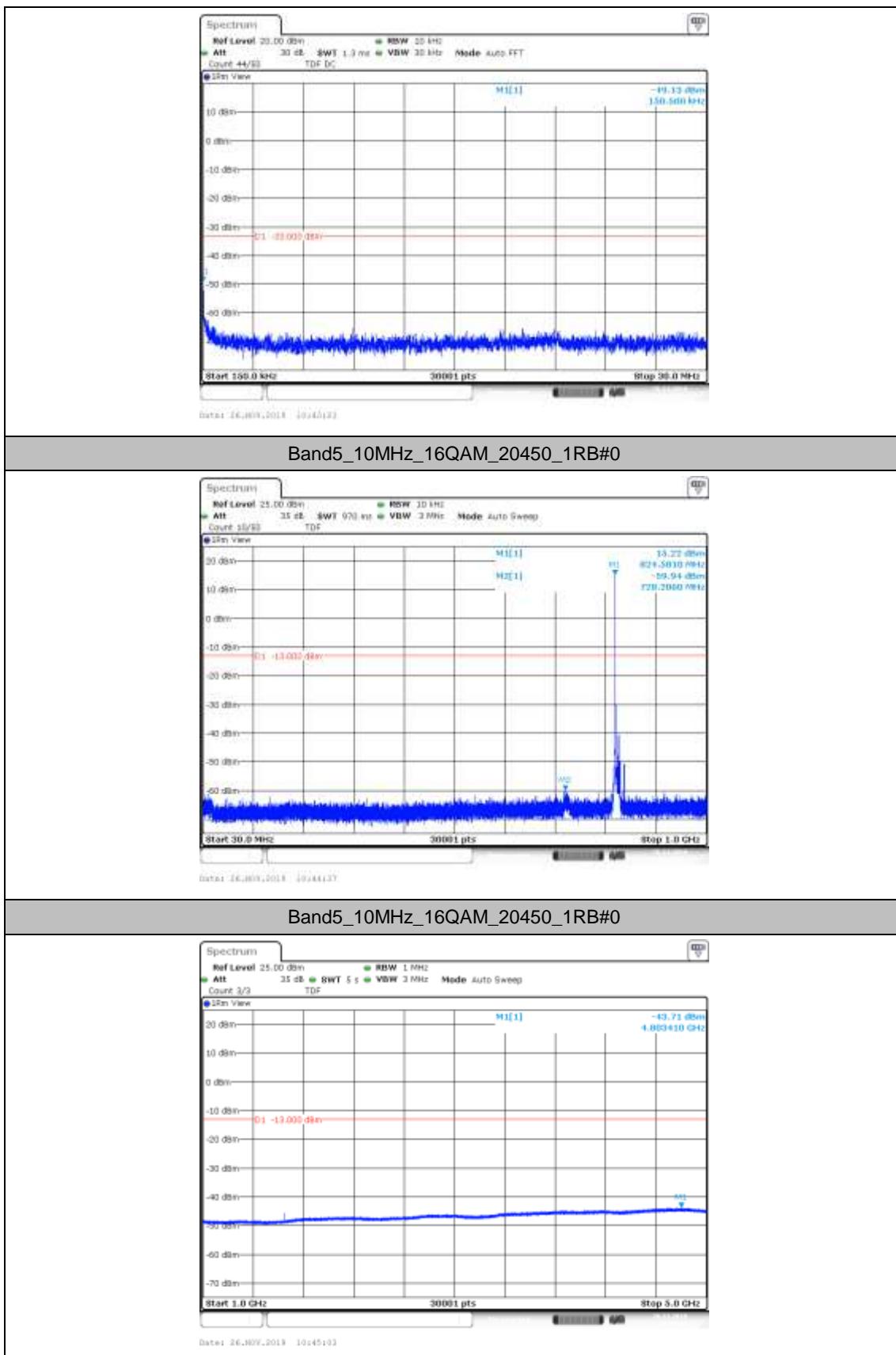
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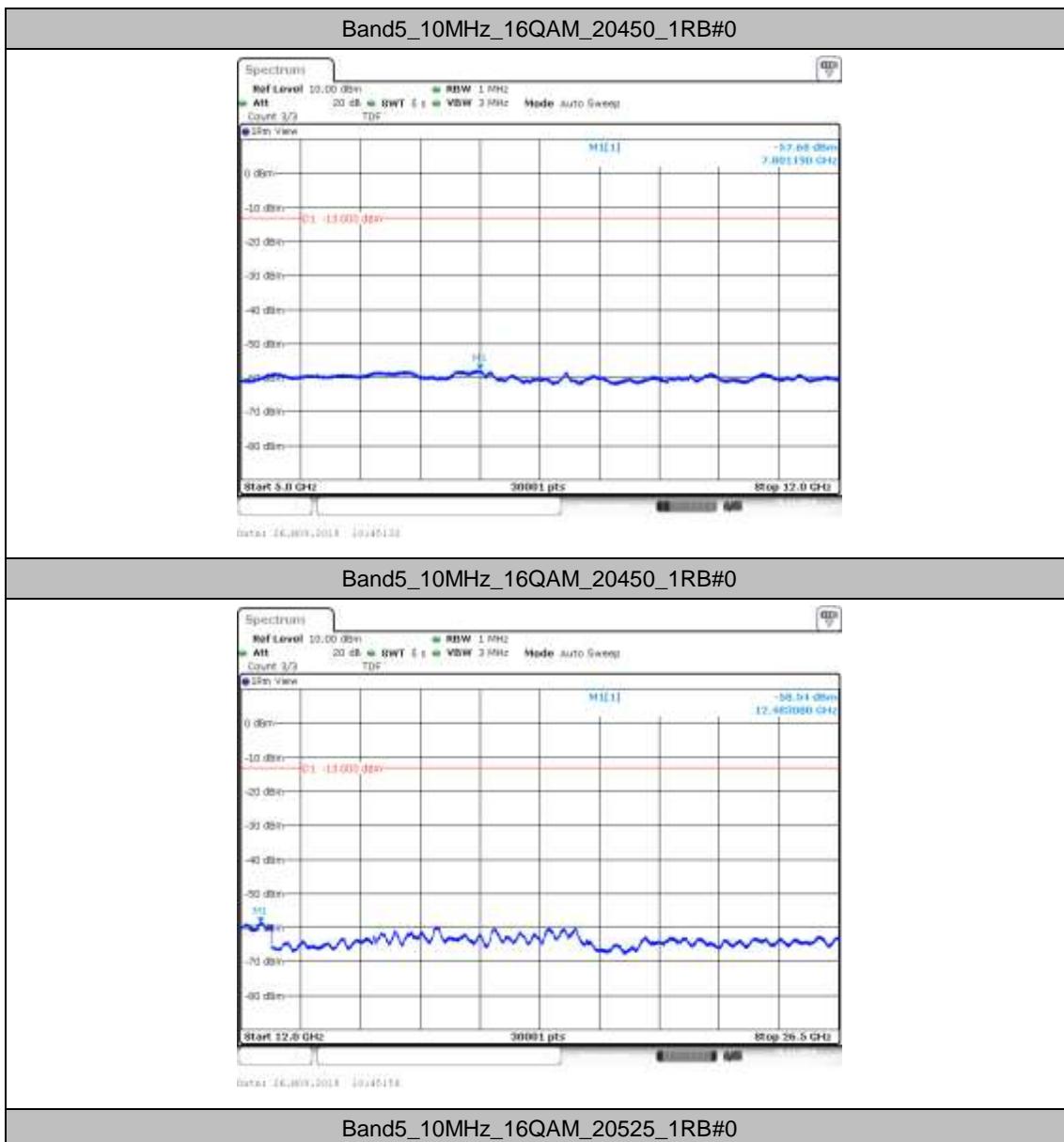
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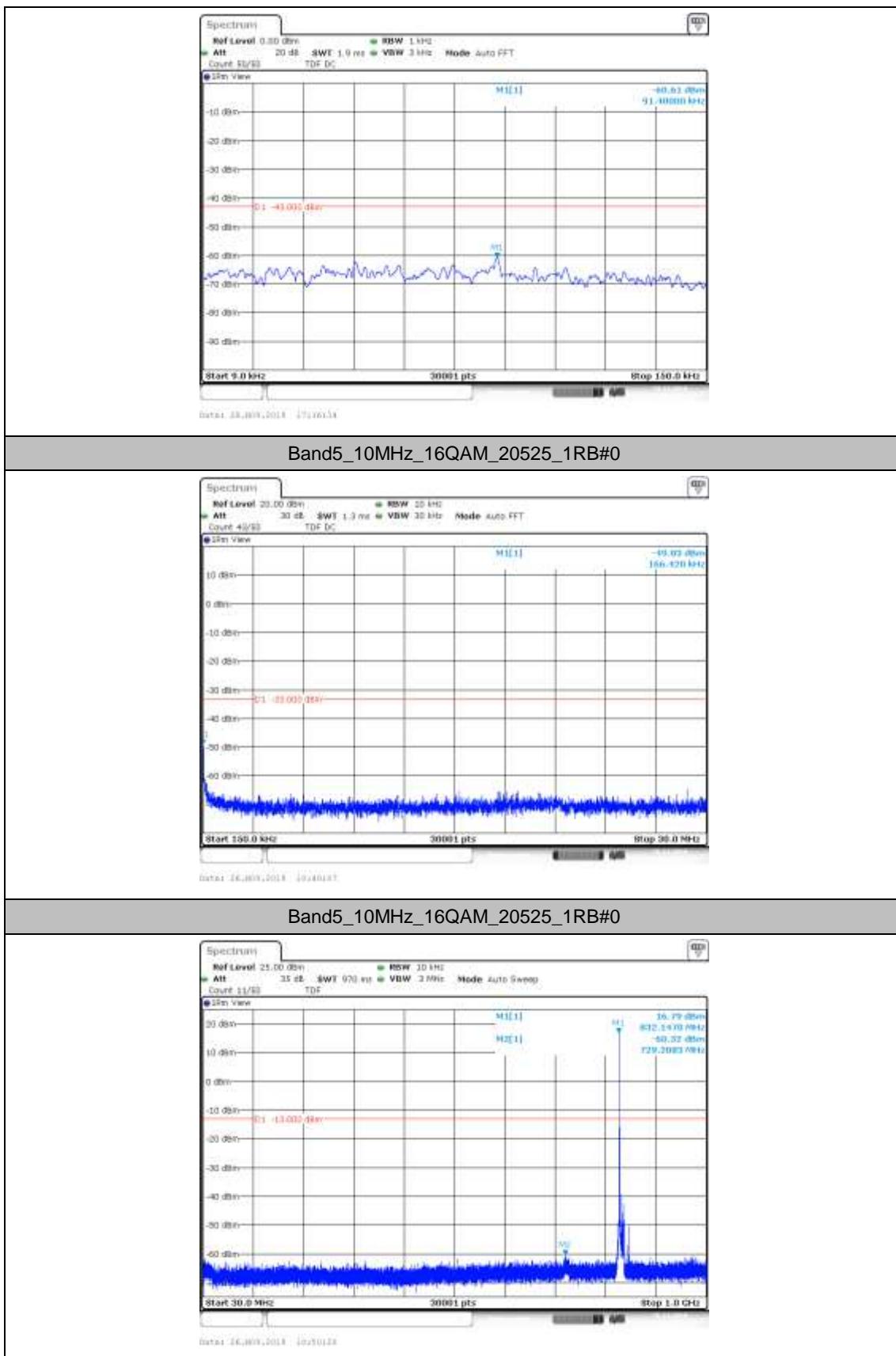
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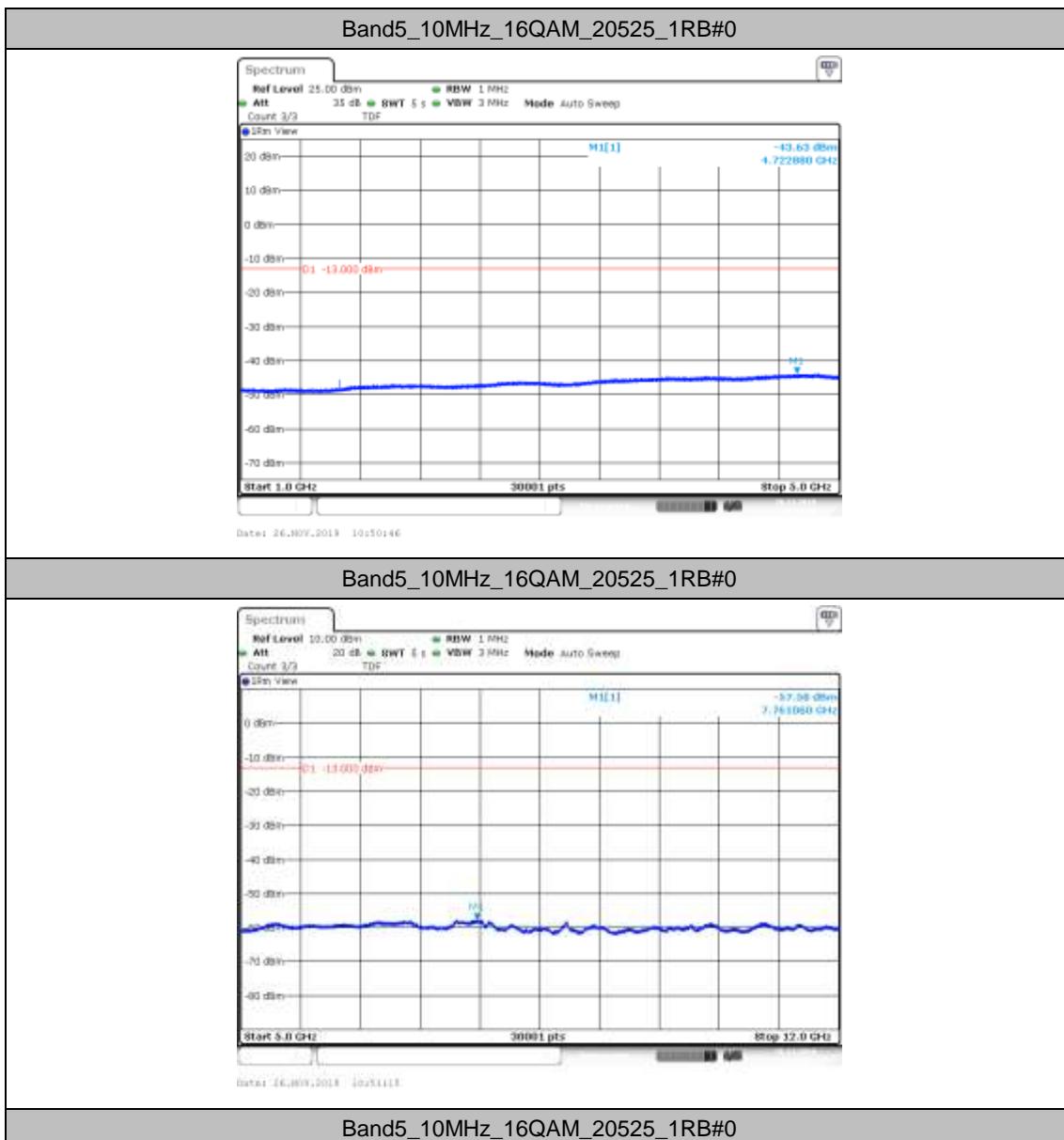
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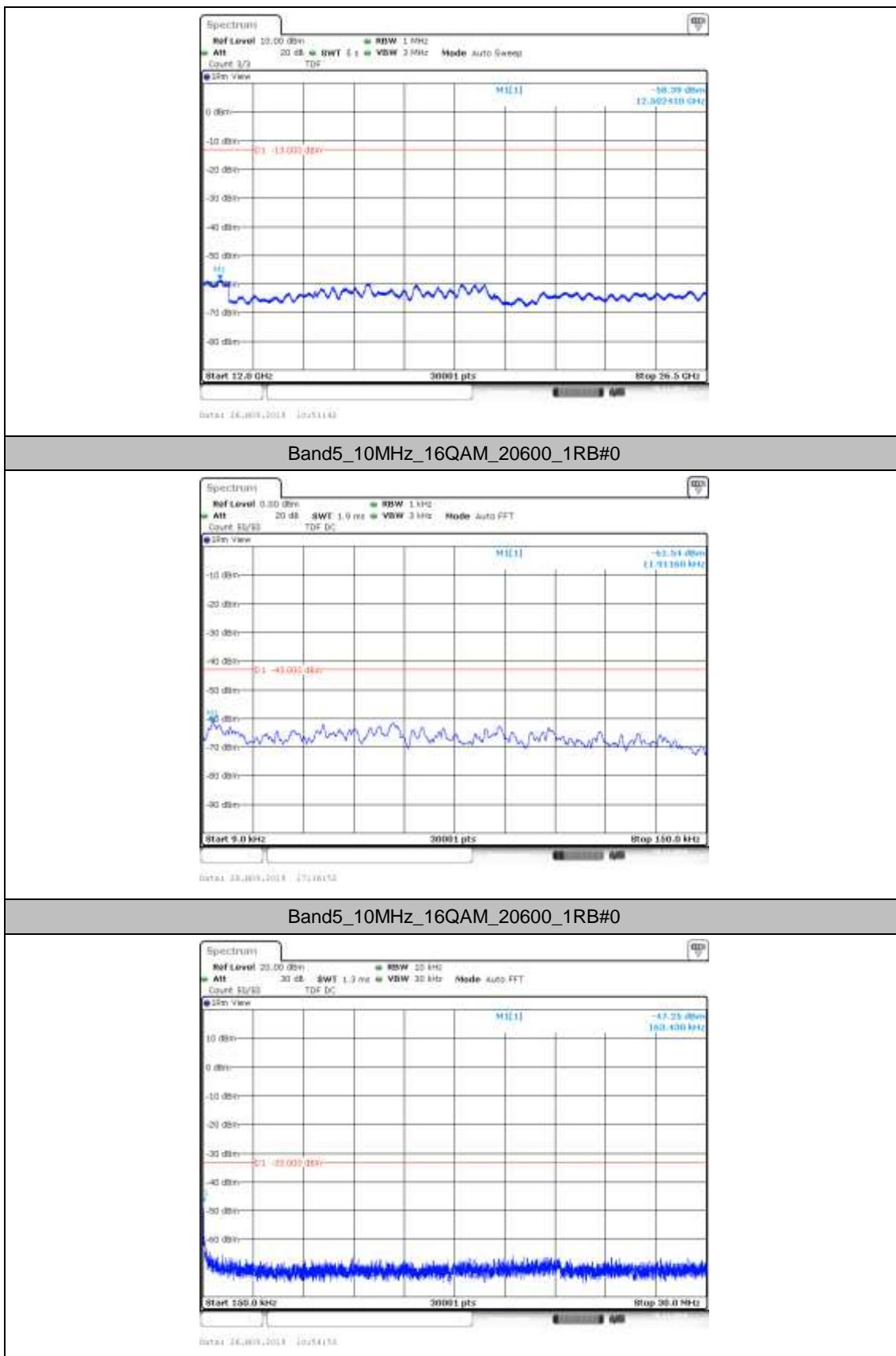
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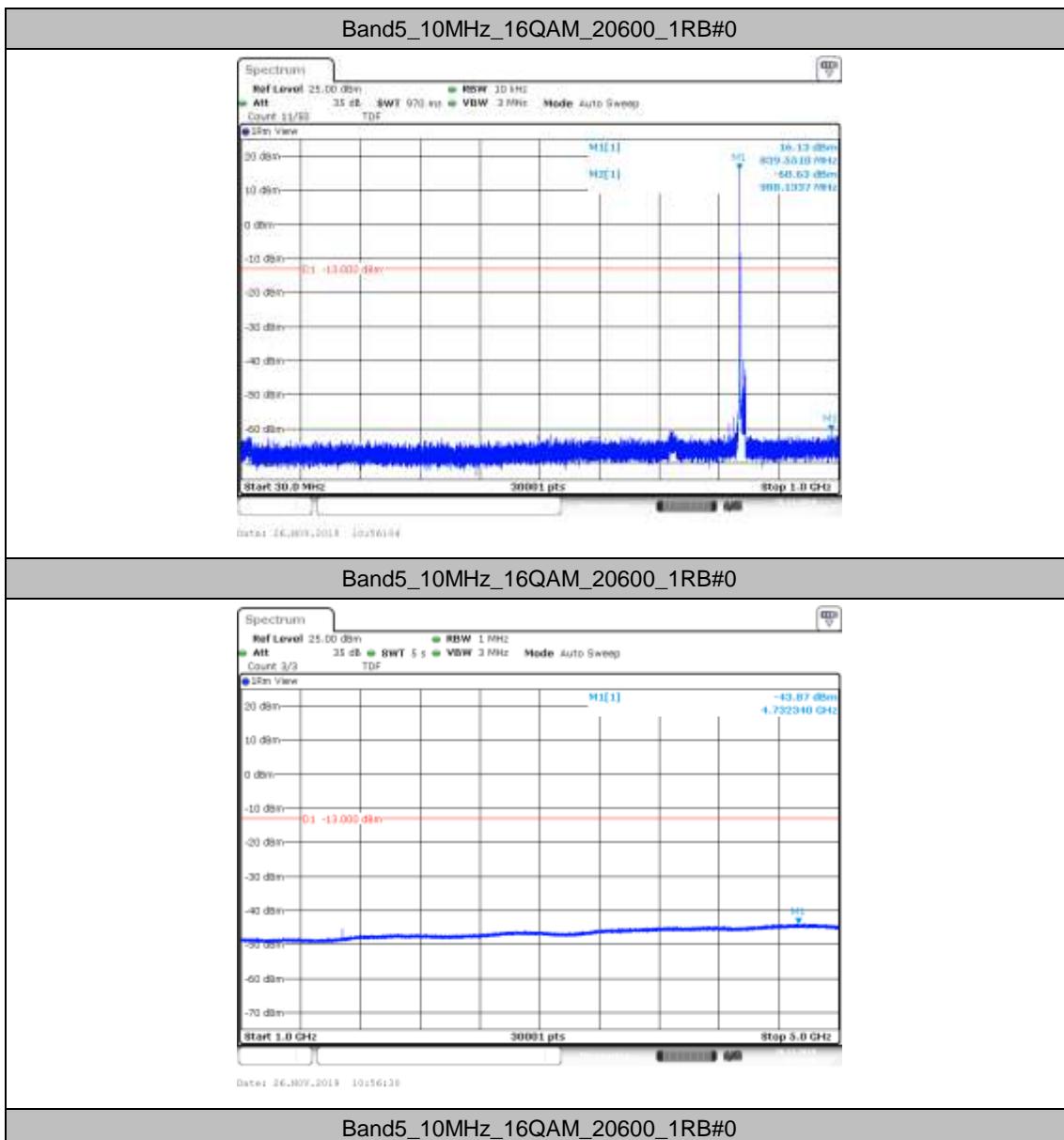
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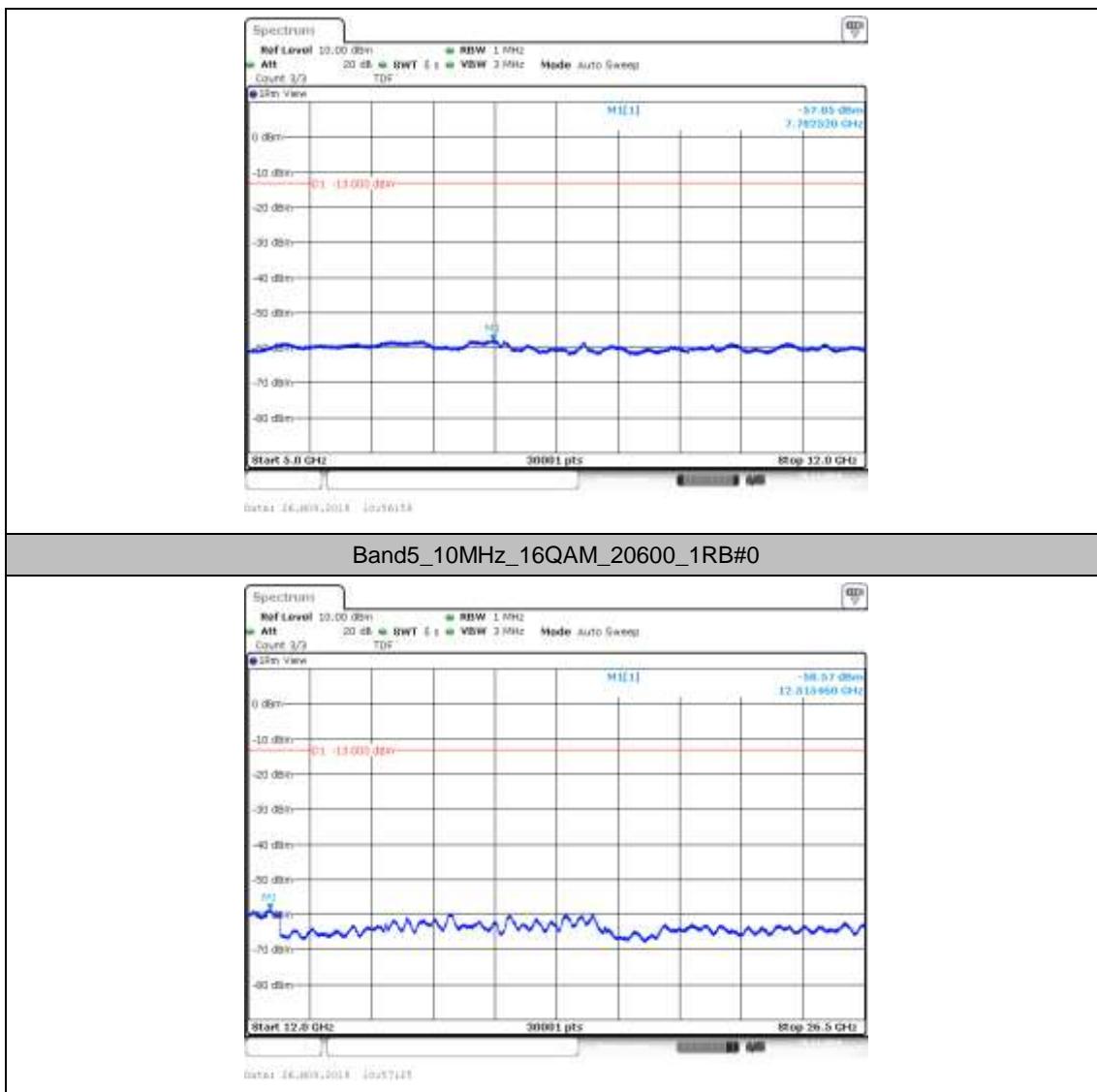
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## Appendix F: Frequency Stability

### Test Result

Voltage											
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-3.49	-0.004172	±2.5	PASS	
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	-4.45	-0.005320	±2.5	PASS	
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-5.87	-0.007017	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	5.64	0.006742	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	-3.48	-0.004160	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	-5.79	-0.006922	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-2.29	-0.002738	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	3.62	0.004328	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	3.20	0.003825	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	6.29	0.007519	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-3.26	-0.003897	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	6.42	0.007675	±2.5	PASS	

Temperature											
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-5.92	-0.007077	±2.5	PASS	
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-3.29	-0.003933	±2.5	PASS	
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	3.91	0.004674	±2.5	PASS	
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-3.60	-0.004304	±2.5	PASS	
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	5.39	0.006444	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	-5.59	-0.006683	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	5.64	0.006742	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	NV	0	4.36	0.005212	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-3.58	-0.004280	±2.5	PASS	
Band5	3MHz	QPSK	20525	15RB#0	NV	20	3.43	0.004100	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-2.60	-0.003108	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-3.46	-0.004136	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-3.40	-0.004065	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	NV	10	-4.06	-0.004854	±2.5	PASS	
Band5	5MHz	QPSK	20525	25RB#0	NV	20	-2.55	-0.003048	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	4.25	0.005081	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	4.96	0.005929	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-4.15	-0.004961	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.39	-0.007639	±2.5	PASS	
Band5	10MHz	QPSK	20525	50RB#0	NV	20	4.59	0.005487	±2.5	PASS	

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