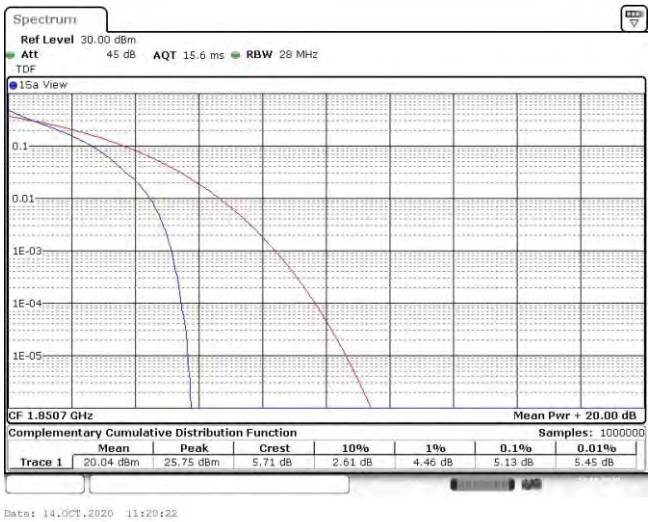
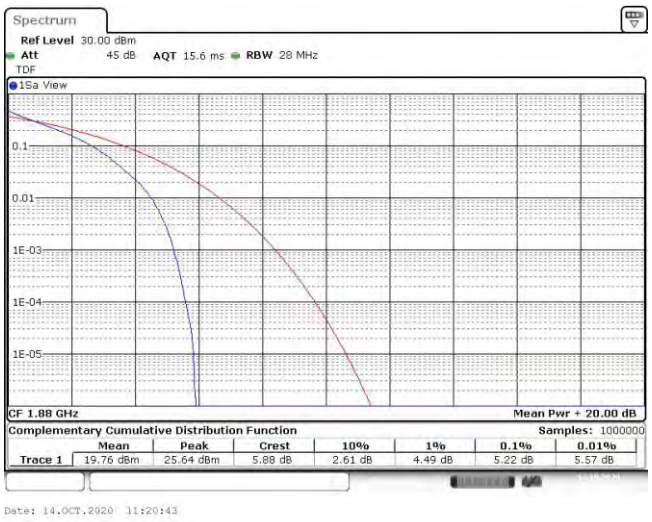
Appendix A: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	5.13	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.22	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	5.16	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	6.00	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.06	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	5.97	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.22	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.28	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.16	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.06	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.06	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	6.00	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.25	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.28	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.16	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.03	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.06	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	6.00	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.25	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.10	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.13	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.09	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	5.97	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	6.03	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.39	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.13	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.30	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.14	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	5.94	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	6.09	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.25	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.90	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.33	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.12	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.91	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.20	13	PASS

Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0


Band2-1.4MHz-QPSK-18900-6RB#0


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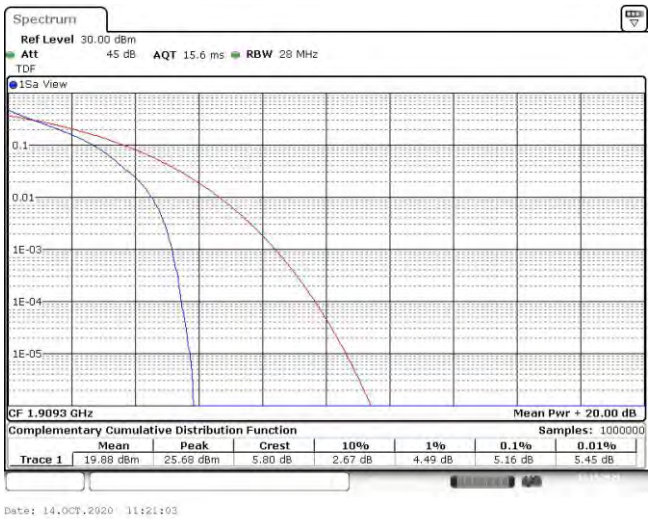

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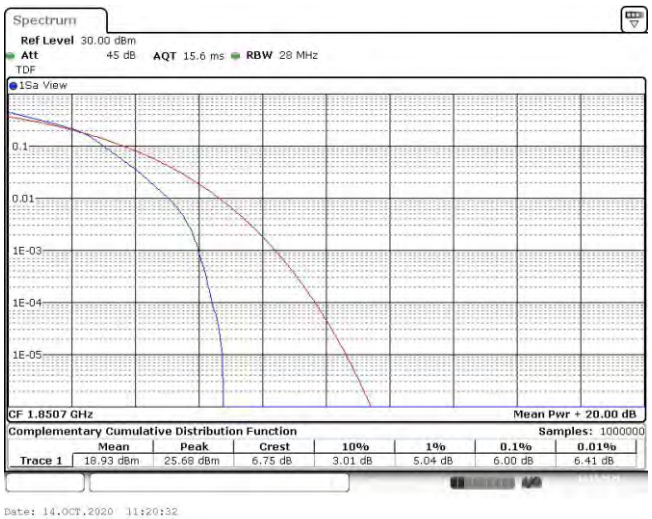
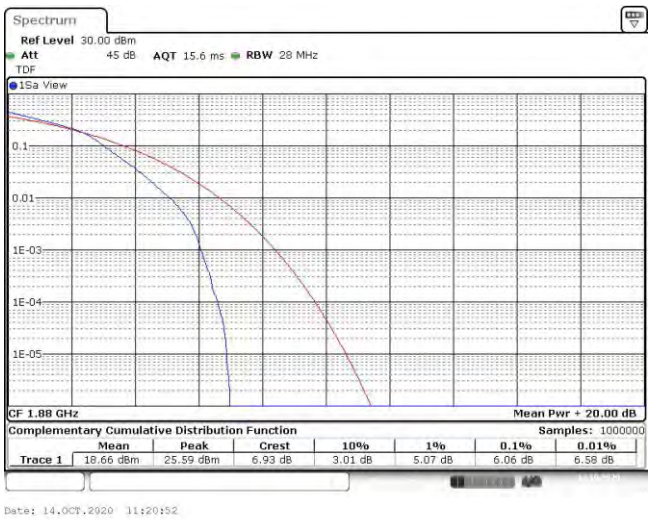


Band2-1.4MHz-16QAM-18900-6RB#0



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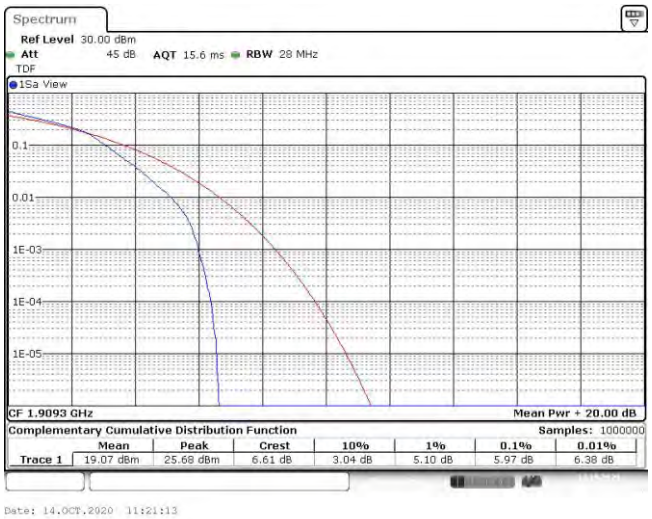
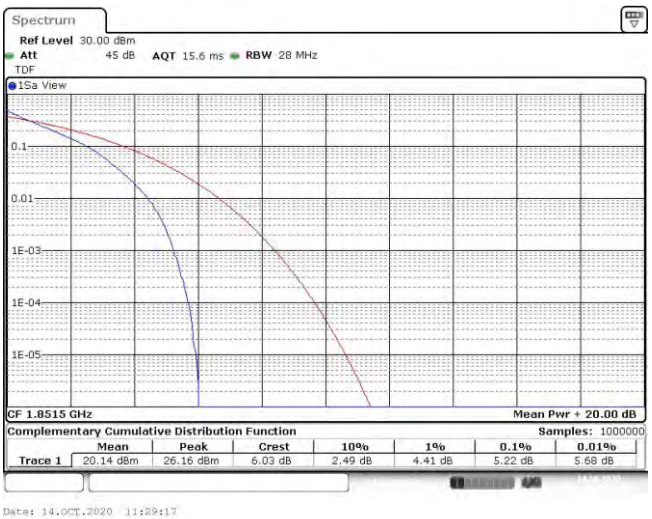
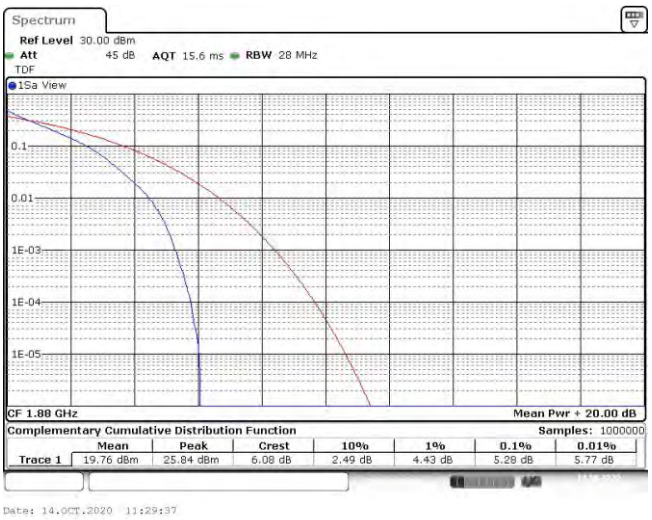


Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-18900-15RB#0



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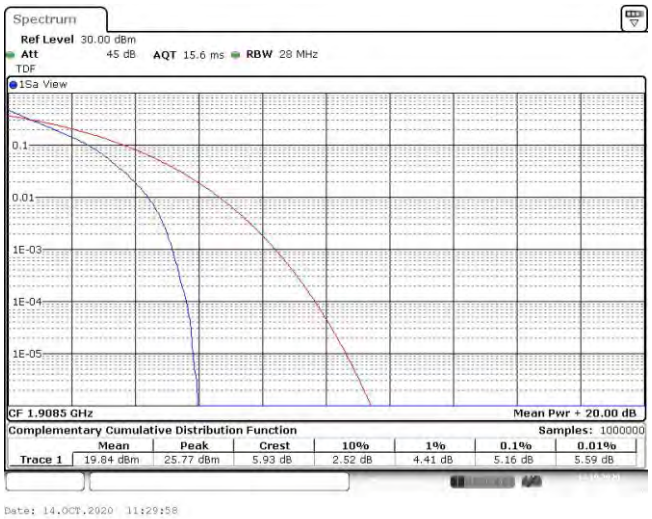
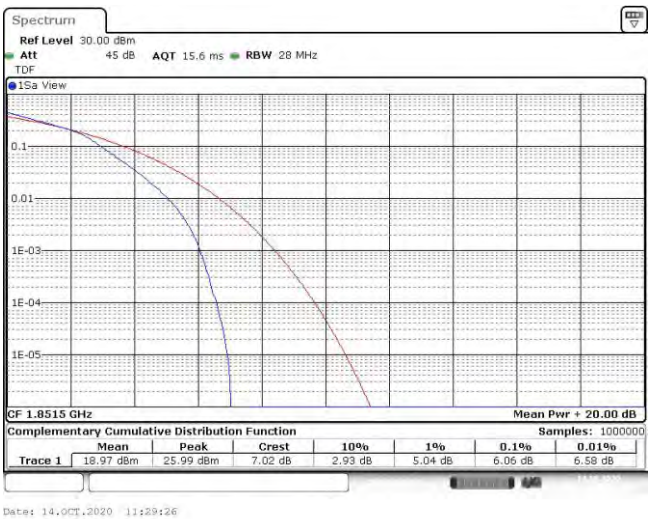
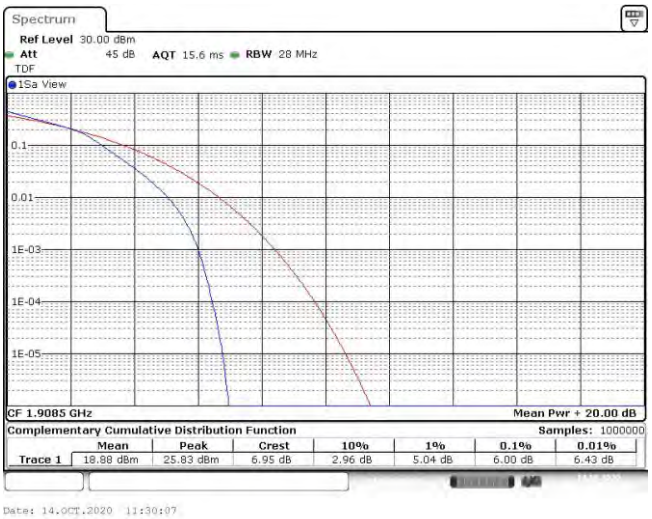


Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-18900-15RB#0

Band2-3MHz-16QAM-19185-15RB#0



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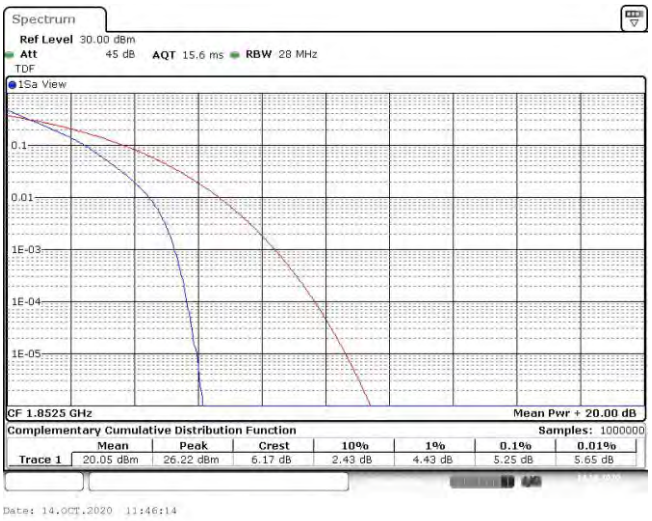
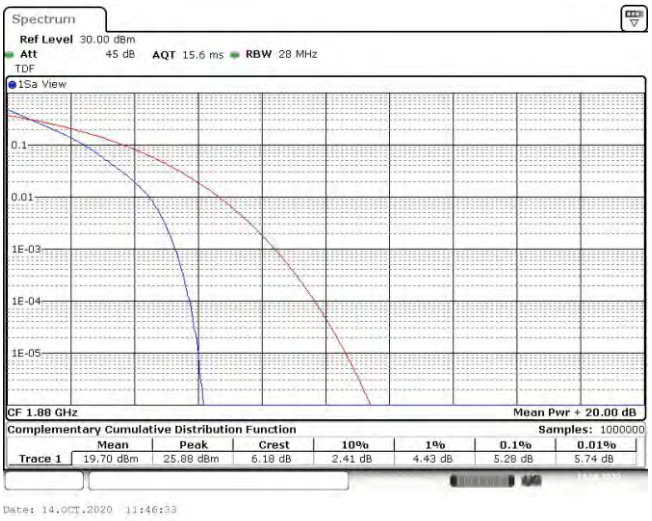
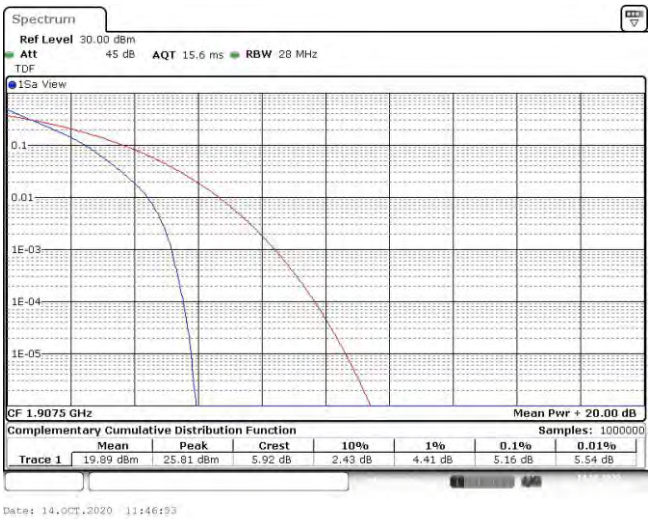


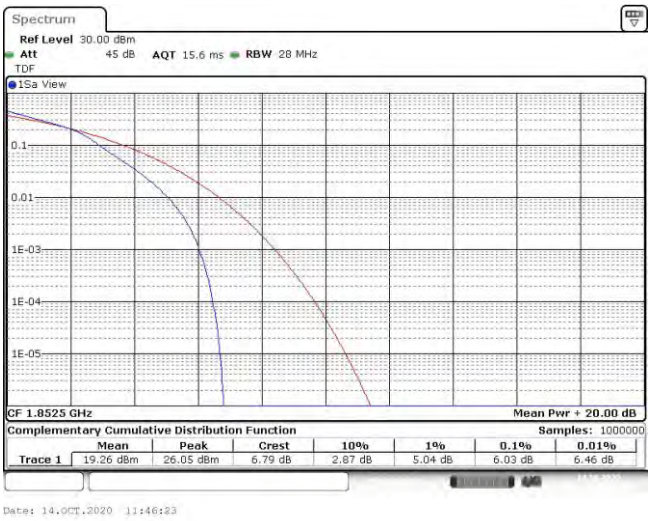
Band2-5MHz-QPSK-18900-25RB#0



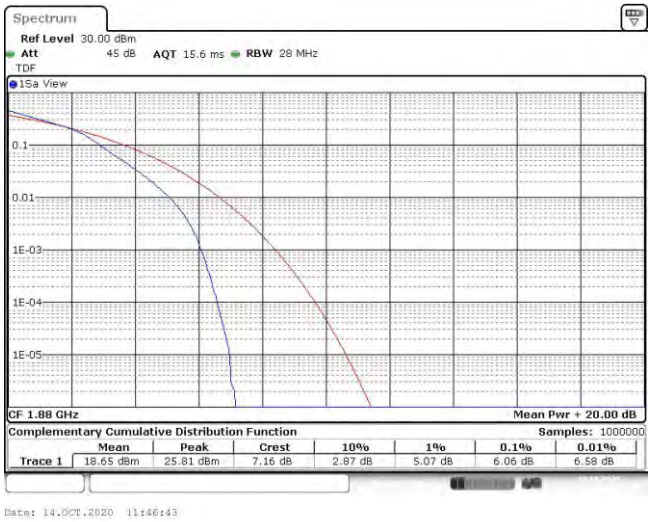
Band2-5MHz-QPSK-19175-25RB#0



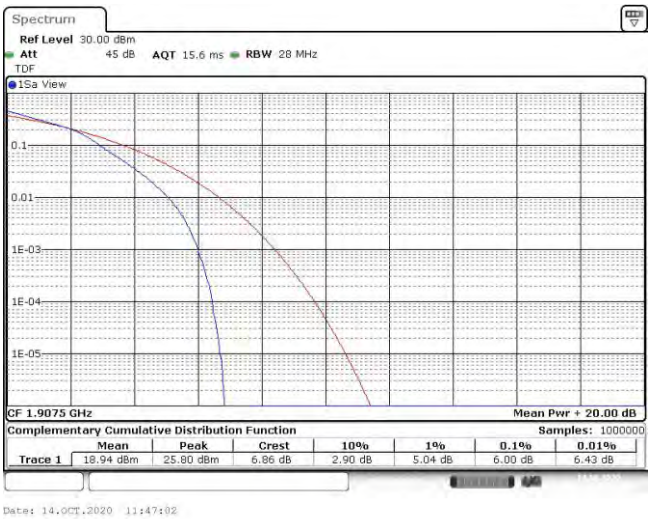
Band2-5MHz-16QAM-18625-25RB#0



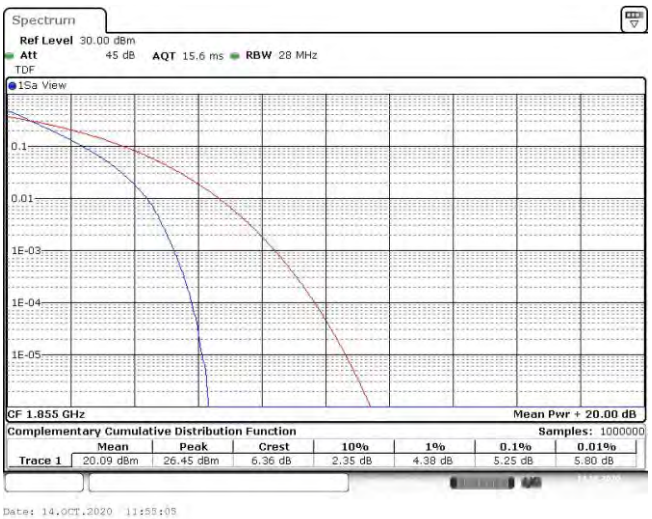
Band2-5MHz-16QAM-18900-25RB#0



Band2-5MHz-16QAM-19175-25RB#0

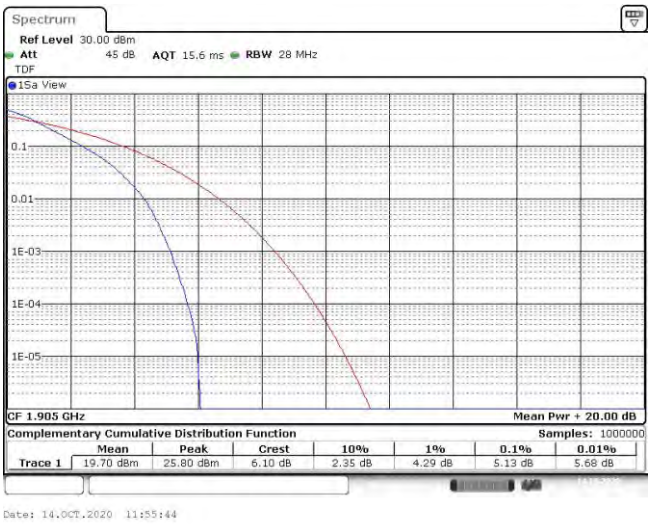


Band2-10MHz-QPSK-18650-50RB#0

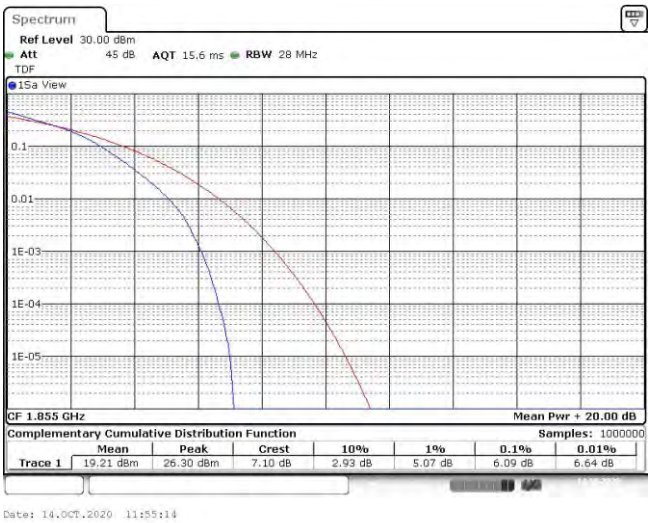


Band2-10MHz-QPSK-18900-50RB#0

Band2-10MHz-QPSK-19150-50RB#0



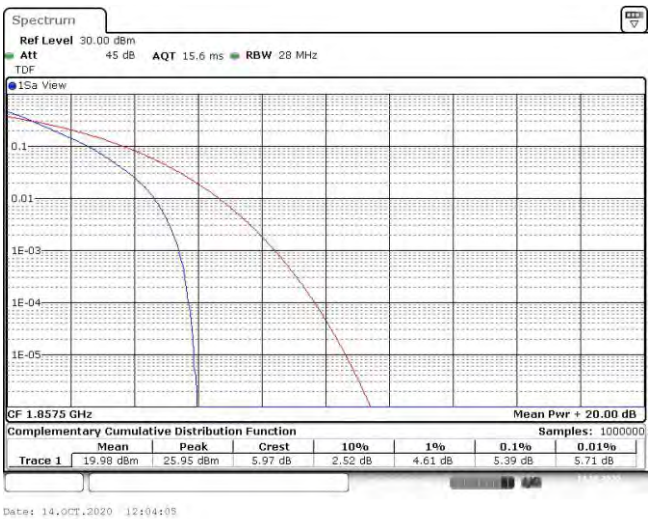
Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-18900-50RB#0

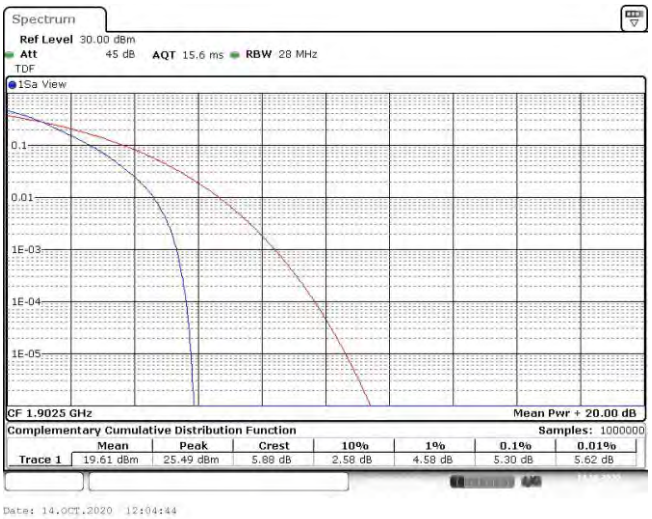
Band2-10MHz-16QAM-19150-50RB#0

Band2-15MHz-QPSK-18675-75RB#0

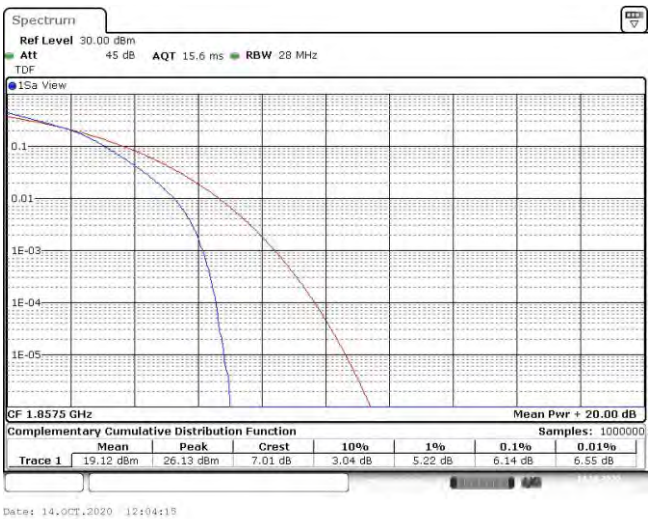


Band2-15MHz-QPSK-18900-75RB#0

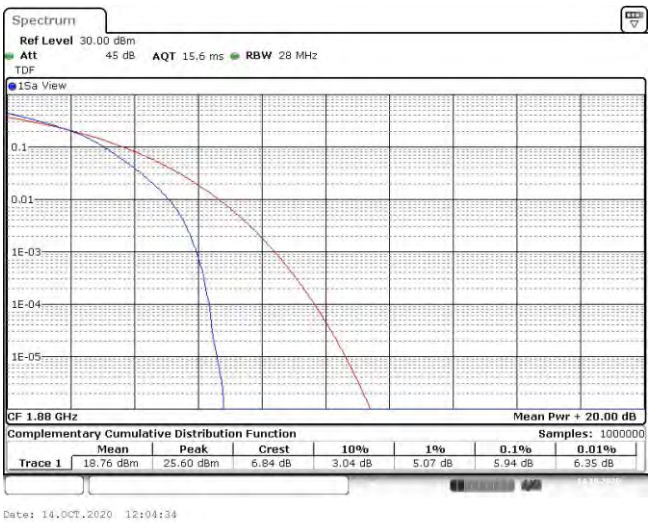
Band2-15MHz-QPSK-19125-75RB#0



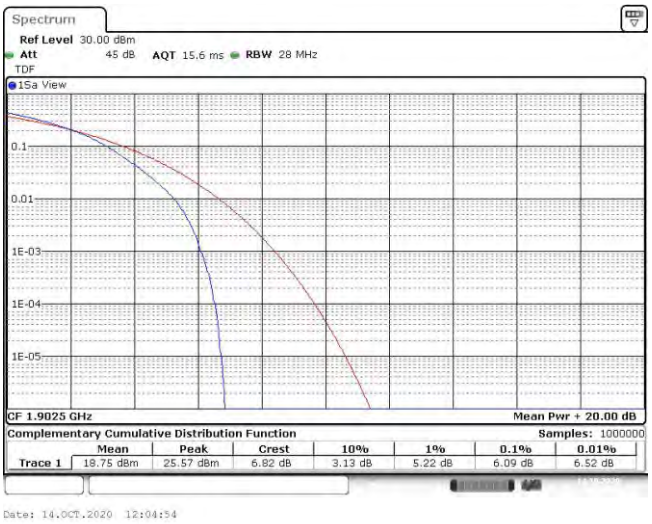
Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-18900-75RB#0



Band2-15MHz-16QAM-19125-75RB#0



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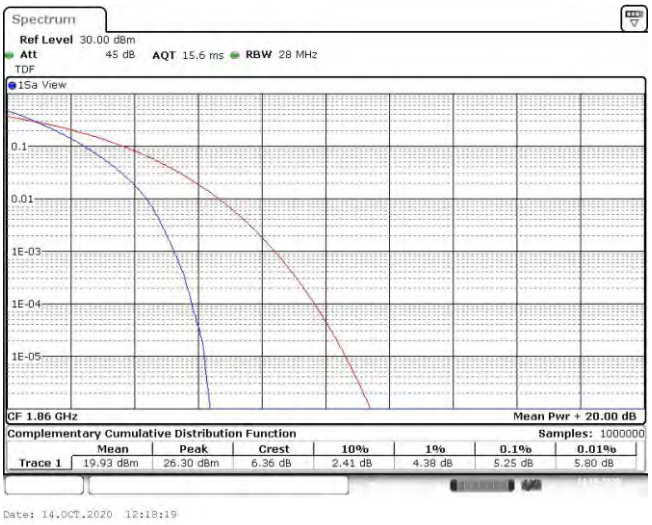
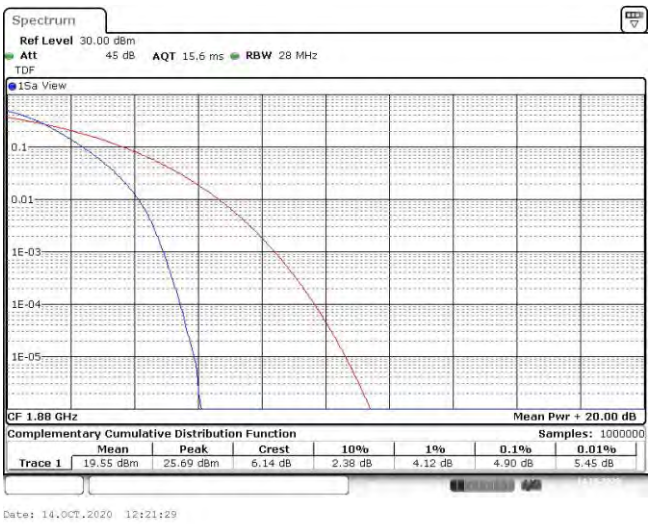
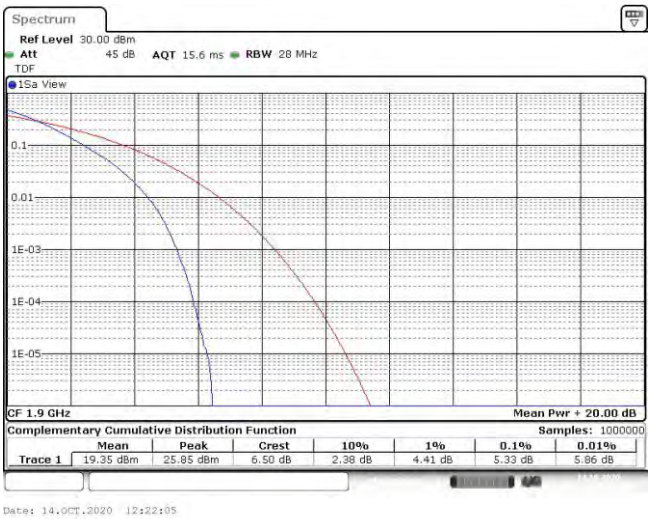


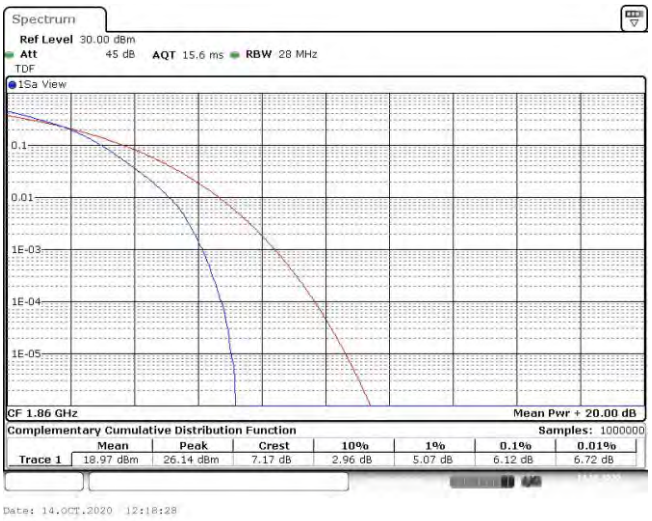
Band2-20MHz-QPSK-18900-100RB#0



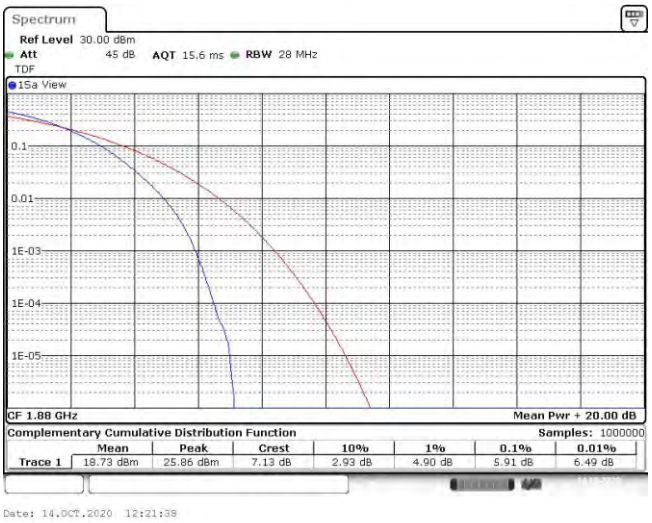
Band2-20MHz-QPSK-19100-100RB#0



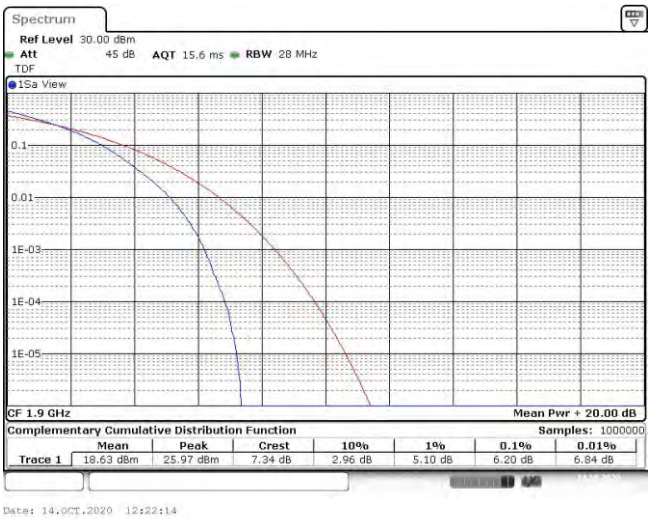
Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0


Spectrum
Ref Level 30.00 dBm
Att 45 dB AQT 15.6 ms RBW 28 MHz
TDF
1Sa View
0.1
0.01
1E-03
1E-04
1E-05
CF 1.9 GHz
Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function
Samples: 1000000
Mean Peak Crest 10% 1% 0.1% 0.01%
Trace 1 18.63 dBm 25.97 dBm 7.34 dB 2.96 dB 5.10 dB 6.20 dB 6.84 dB
Date: 14.OCT.2020 12:22:14

Appendix B: 26dB Bandwidth and Occupied Bandwidth

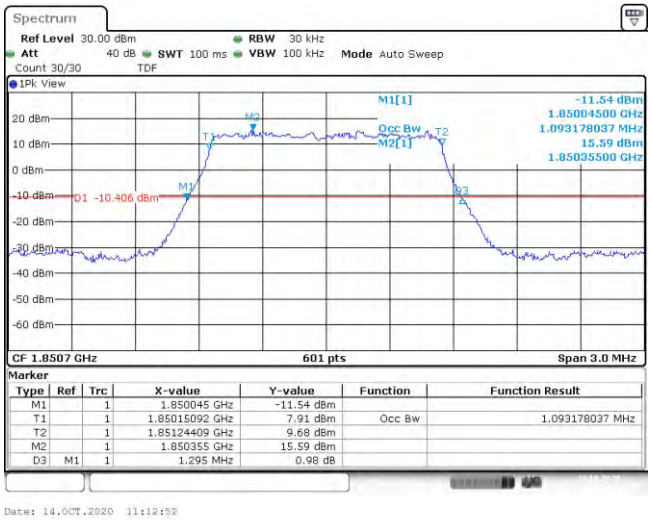
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.093	1.295	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.098	1.315	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.093	1.295	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.098	1.310	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.103	1.325	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.098	1.310	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.705	2.980	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.705	2.990	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.696	2.980	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.696	2.990	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.686	2.980	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.686	2.990	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.525	5.220	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.525	5.220	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.525	5.270	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.525	5.140	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.515	5.140	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.515	5.130	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.952	10.033	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.952	9.967	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.952	9.900	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.985	9.867	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.952	9.867	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.952	9.900	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.478	14.900	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.378	14.750	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.378	14.900	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.428	14.800	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.428	14.750	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.428	14.750	PASS
Band2	20MHz	QPSK	18700	100RB#0	18.037	19.867	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.903	19.733	PASS
Band2	20MHz	QPSK	19100	100RB#0	18.037	19.867	PASS

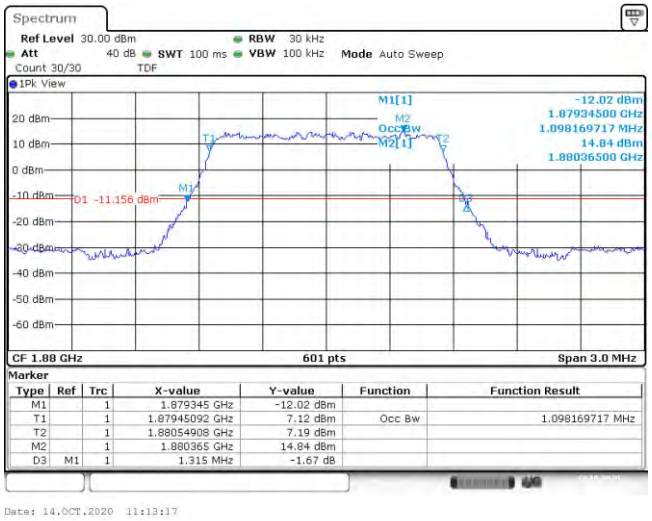
Band2	20MHz	16QAM	18700	100RB#0	18.037	19.733	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.837	19.600	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.037	19.867	PASS

Test Graphs

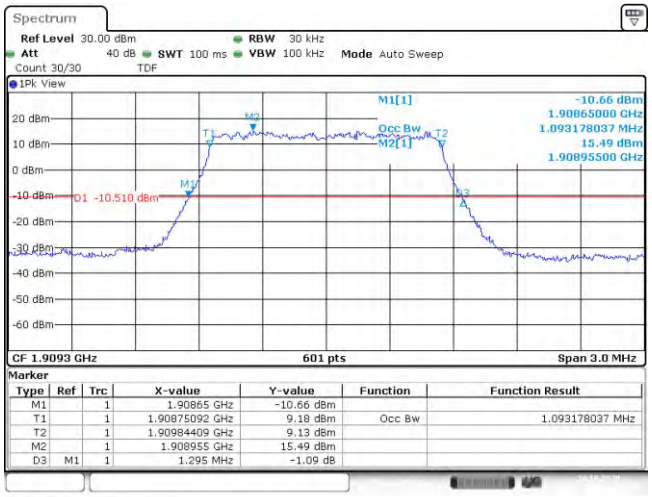
Band2-1.4MHz-QPSK-18607-6RB#0-1.093



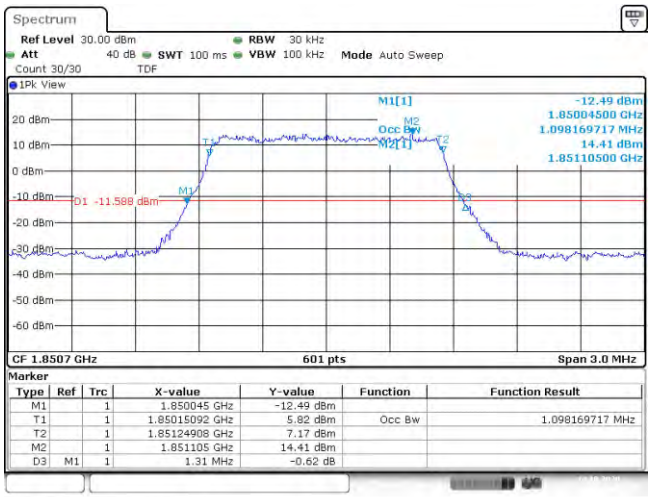
Band2-1.4MHz-QPSK-18900-6RB#0-1.098



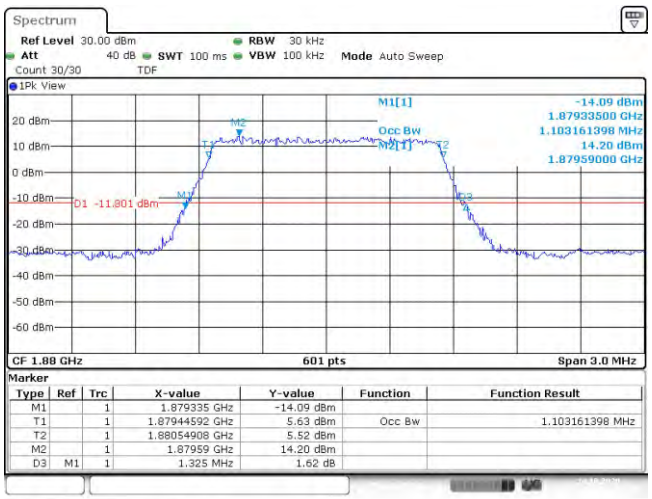
Band2-1.4MHz-QPSK-19193-6RB#0-1.093



Band2-1.4MHz-16QAM-18607-6RB#0-1.098



Band2-1.4MHz-16QAM-18900-6RB#0-1.103



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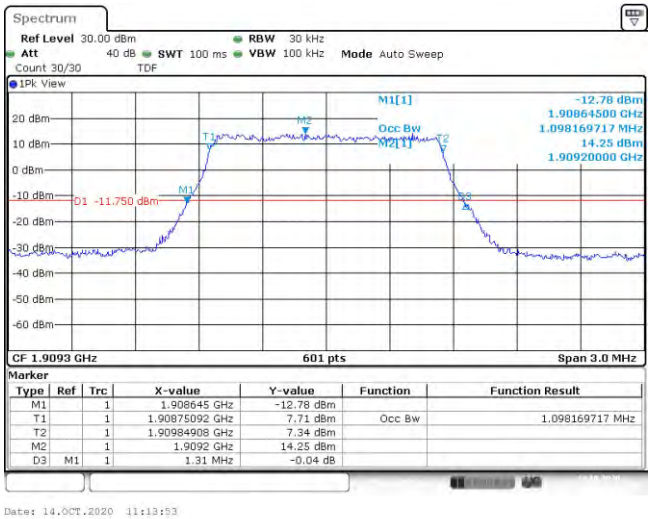
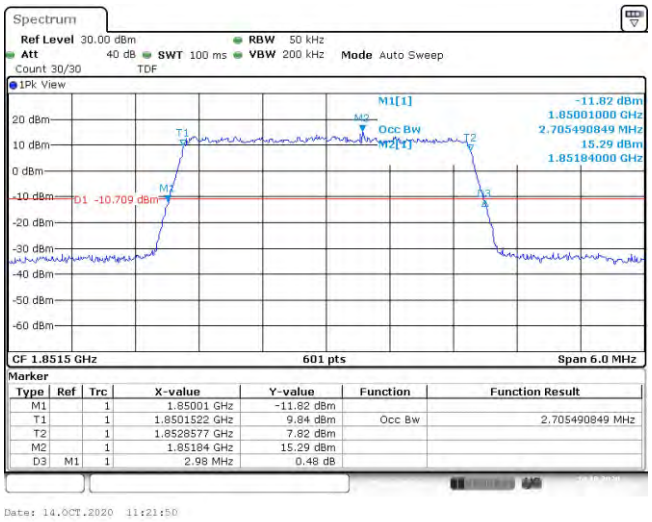


Band2-3MHz-QPSK-18615-15RB#0-2.705



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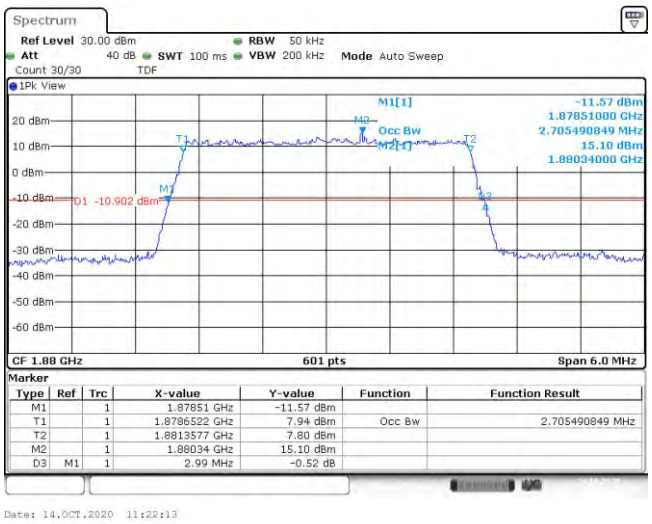

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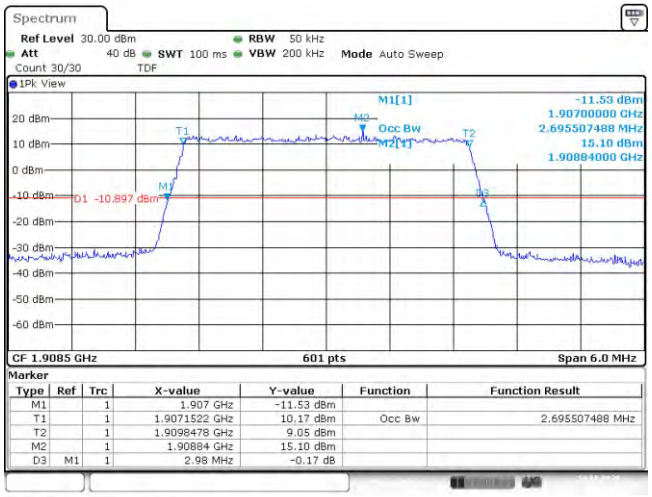

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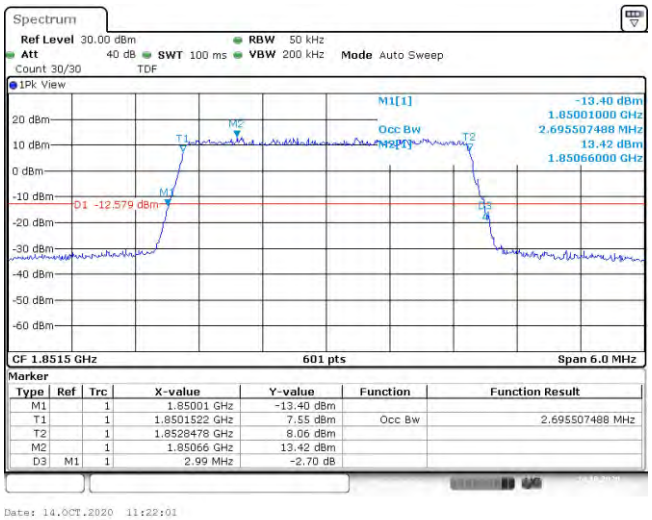

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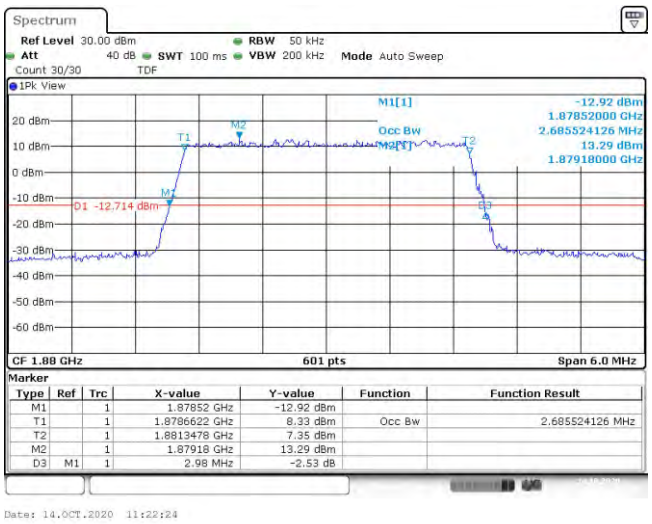

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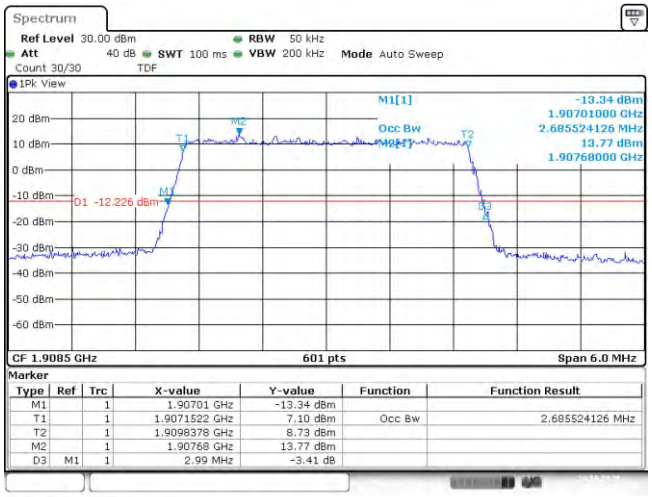
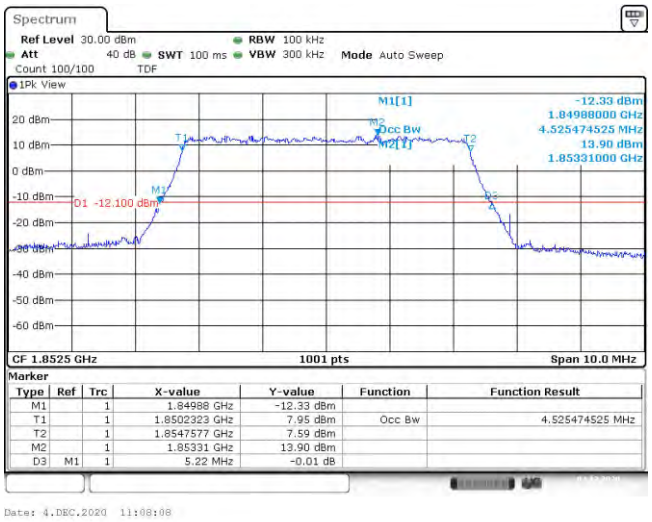


Band2-5MHz-QPSK-18625-25RB#0-4.525



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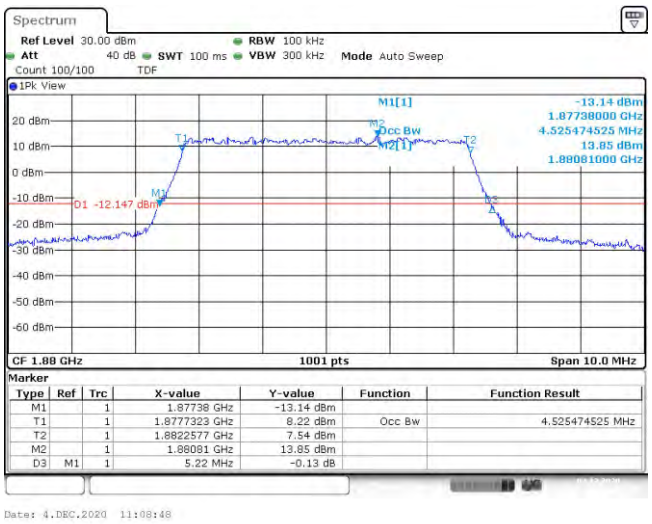

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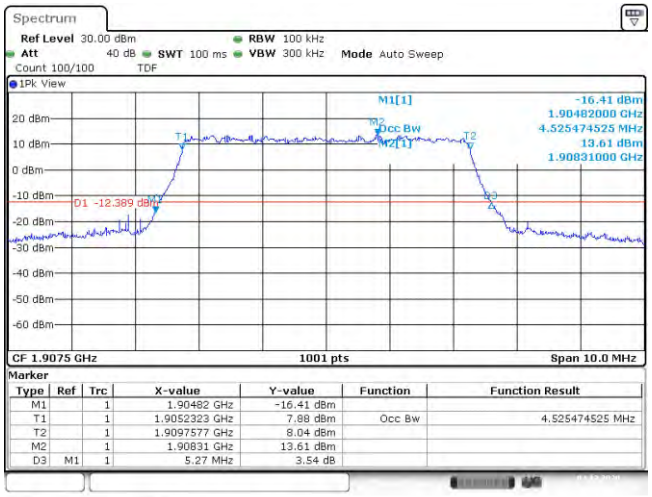

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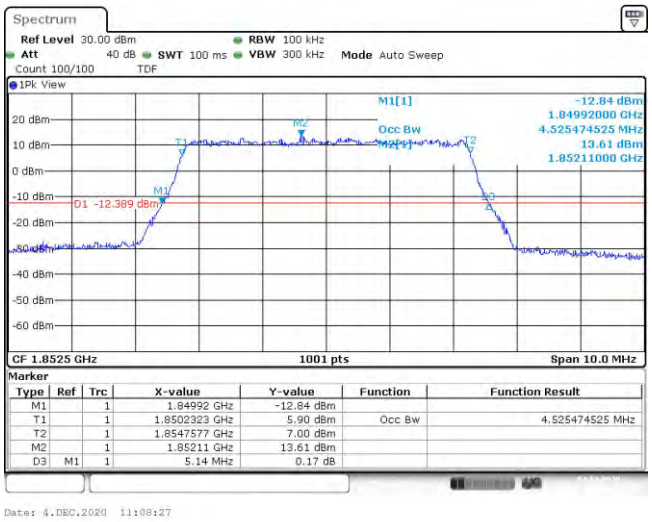

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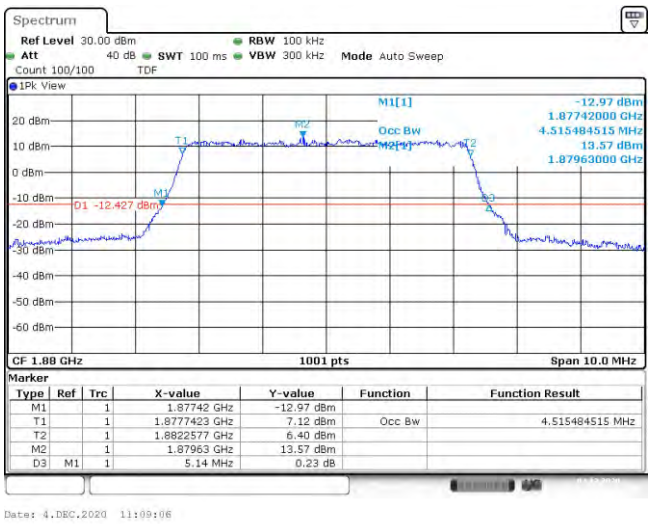
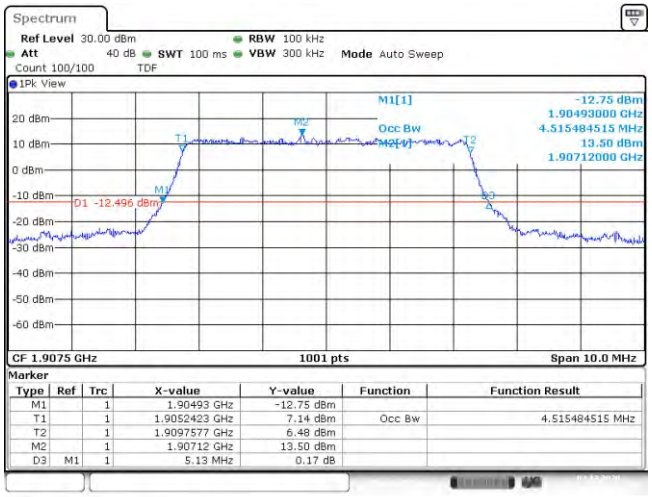
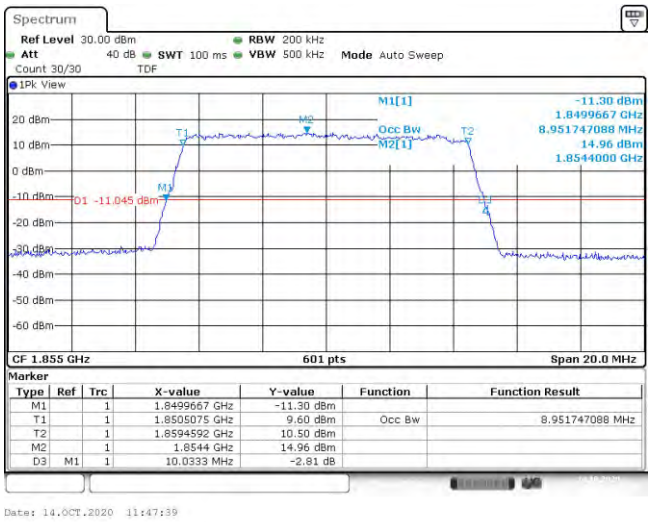


Band2-5MHz-16QAM-19175-25RB#0-4.515



Band2-10MHz-QPSK-18650-50RB#0-8.952



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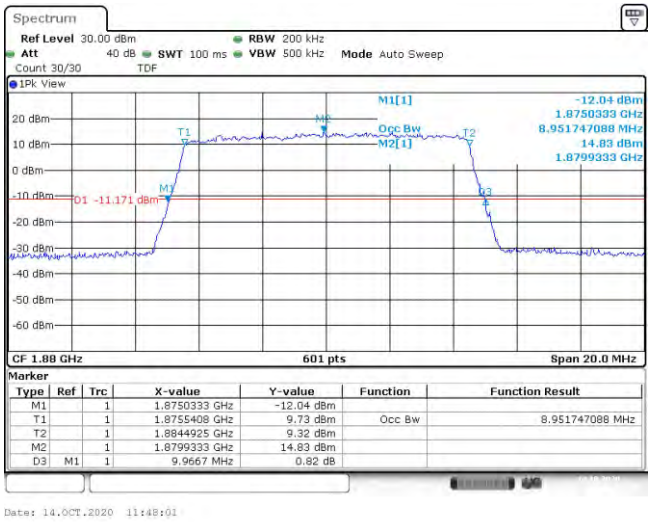

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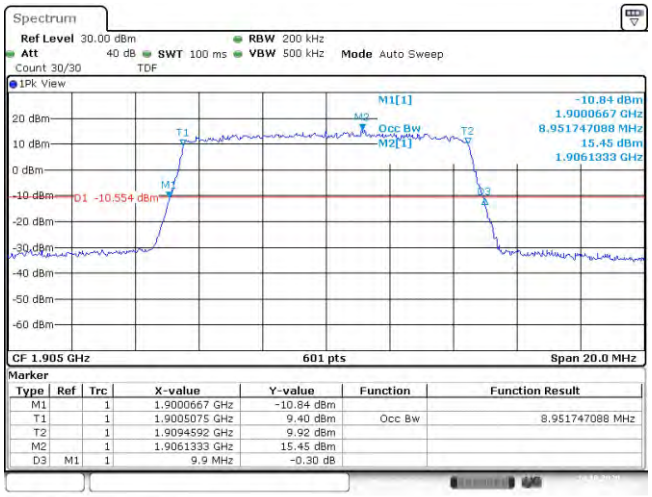
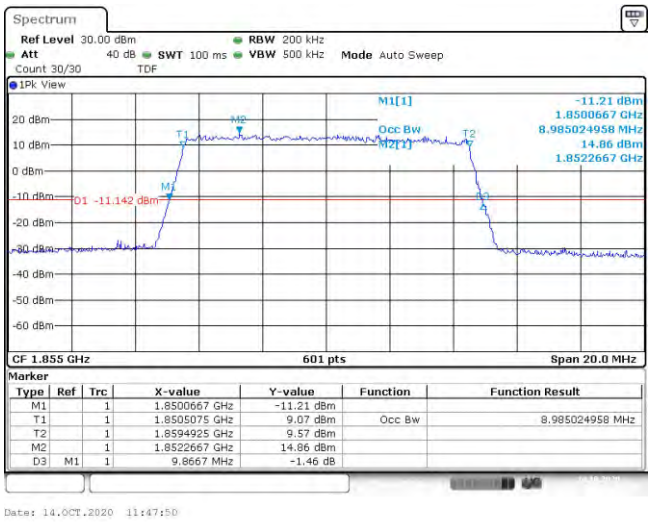


Band2-10MHz-16QAM-18650-50RB#0-8.985



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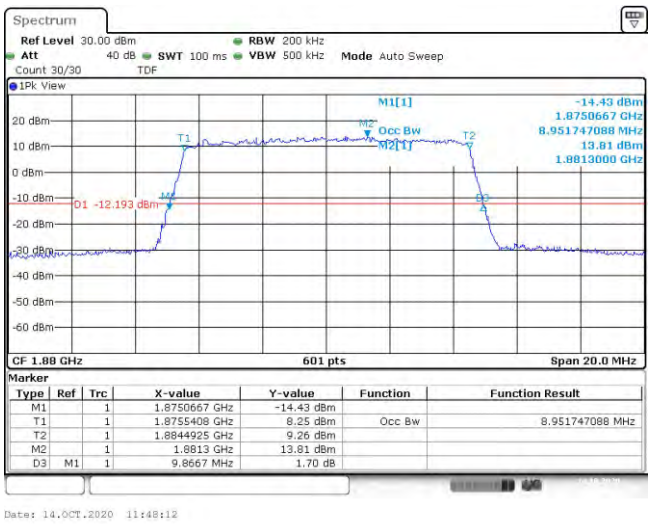

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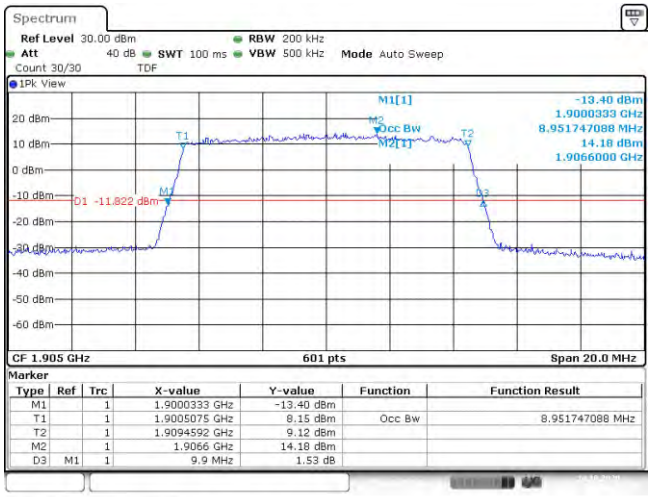
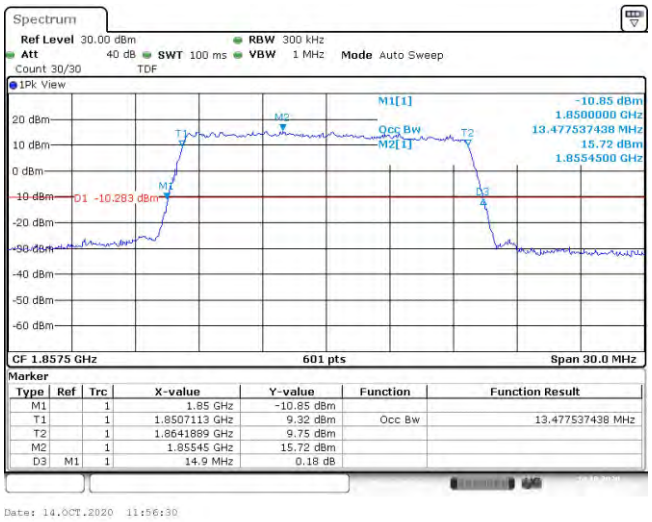


Band2-15MHz-QPSK-18675-75RB#0-13.478



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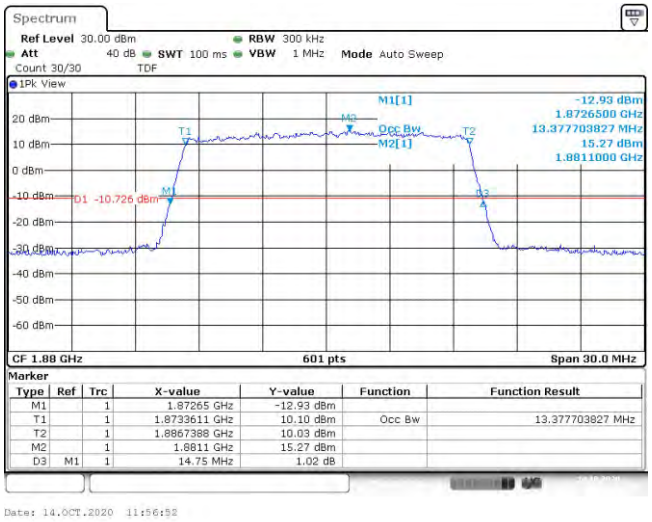

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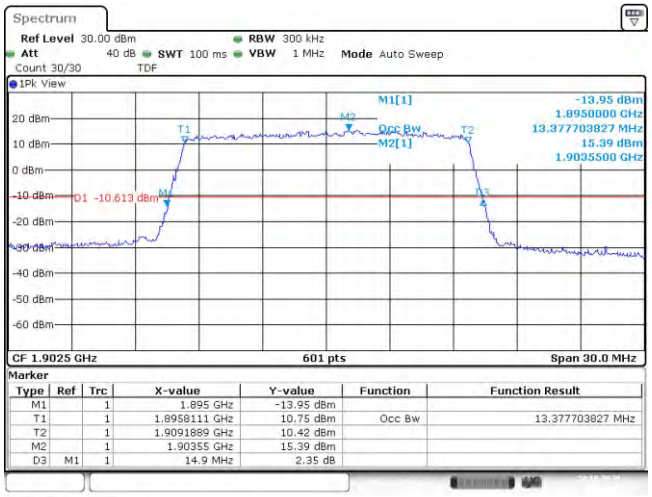
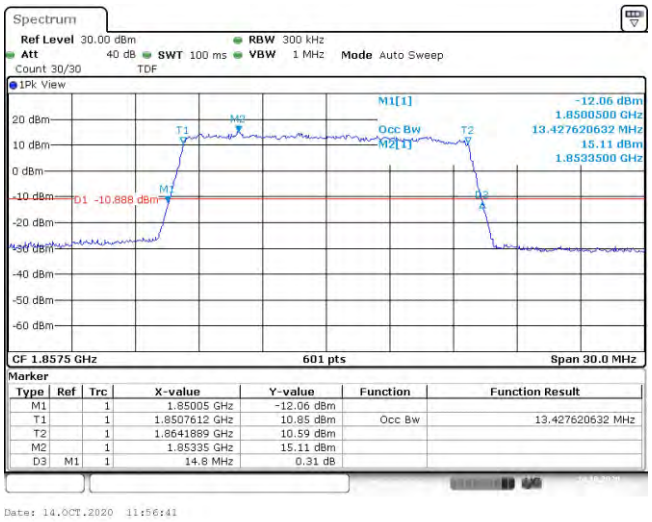


Band2-15MHz-16QAM-18675-75RB#0-13.428



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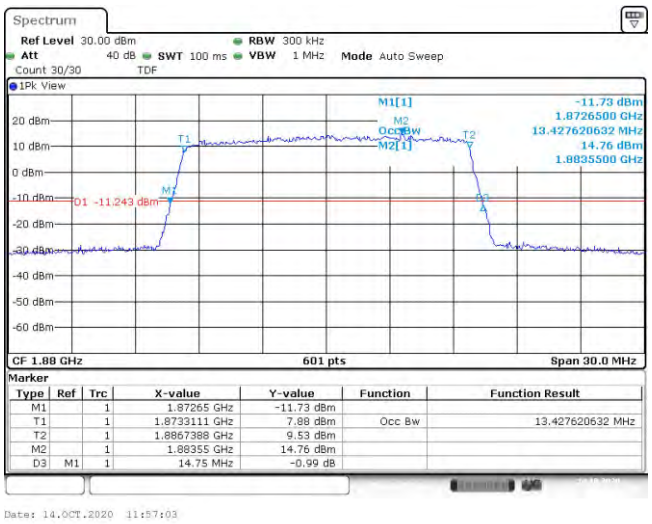

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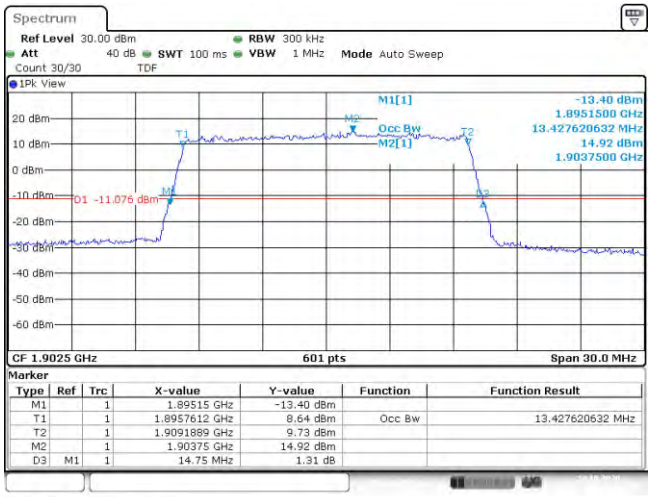
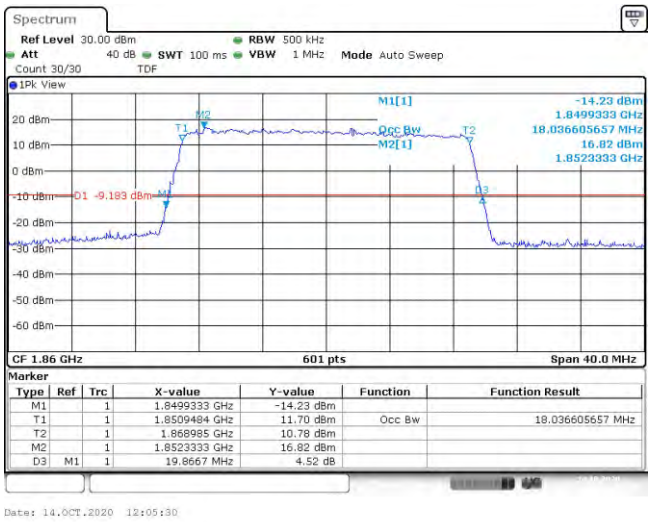
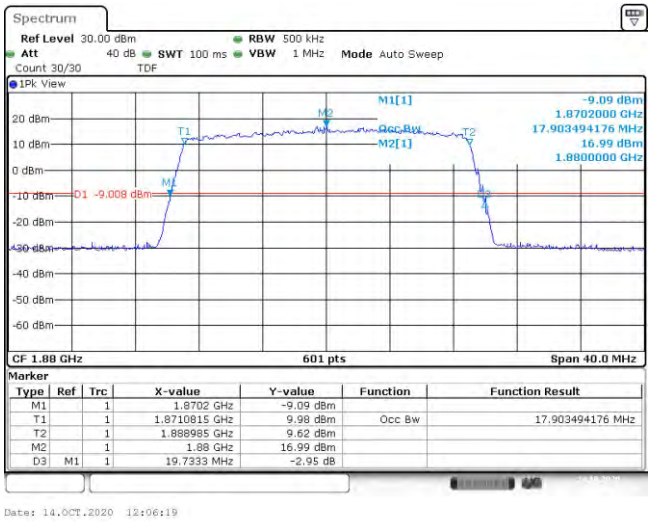


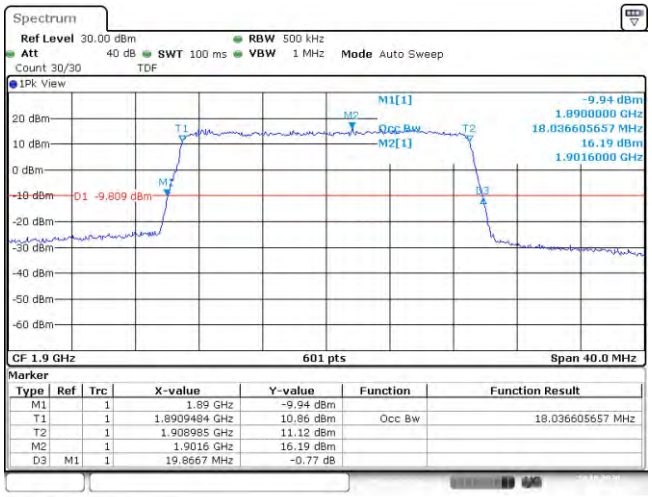
Band2-20MHz-QPSK-18700-100RB#0-18.037



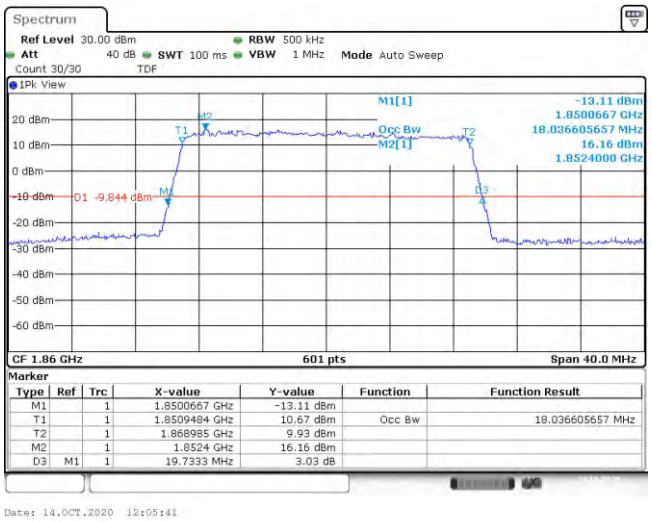
Band2-20MHz-QPSK-18900-100RB#0-17.903



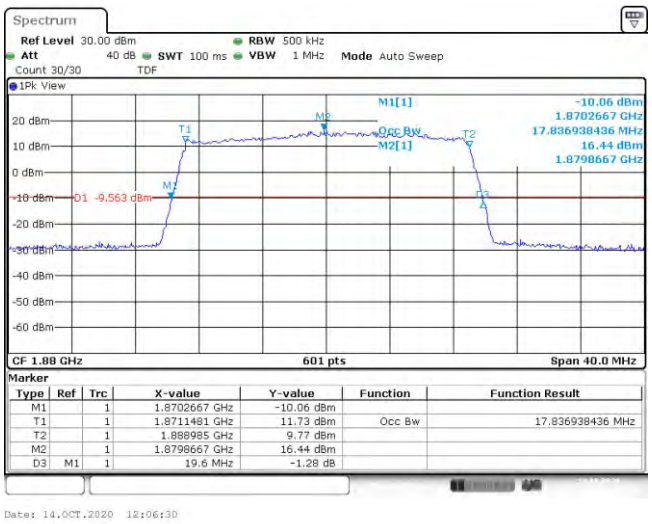
Band2-20MHz-QPSK-19100-100RB#0-18.037



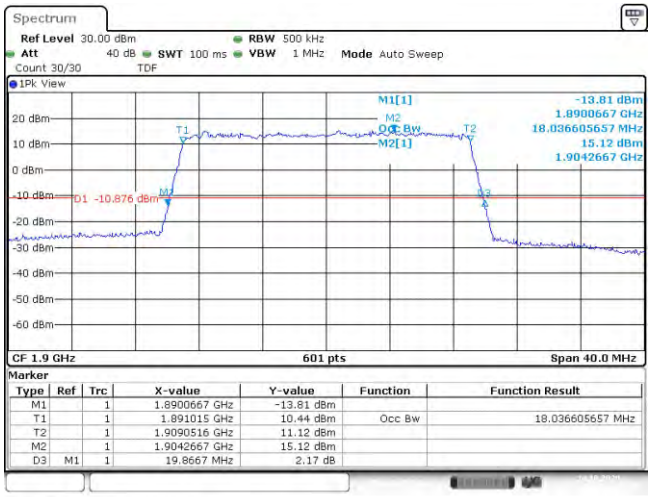
Band2-20MHz-16QAM-18700-100RB#0-18.037



Band2-20MHz-16QAM-18900-100RB#0-17.837



Band2-20MHz-16QAM-19100-100RB#0-18.037

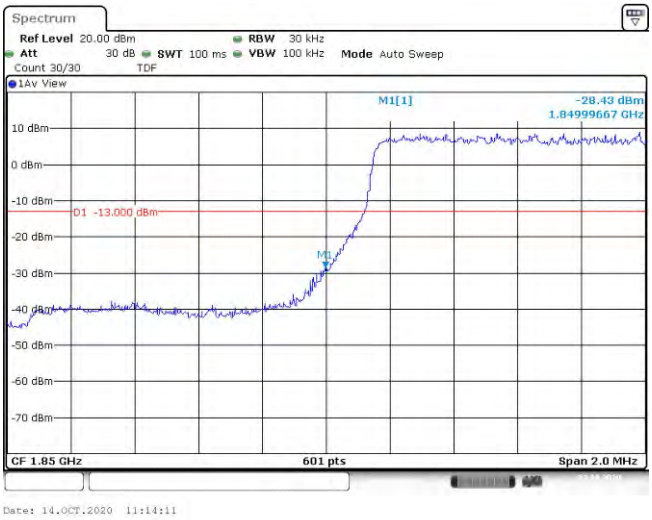
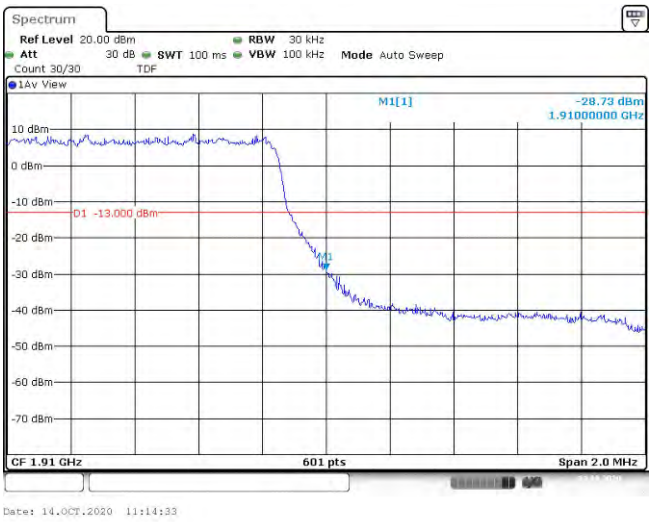

Spectrum
Ref Level 30.00 dBm
RBW 500 kHz
Att 40 dB
SWT 100 ms
VBW 1 MHz
Mode Auto Sweep
Count 30/30
TDF
1Pk View
M1[1] -13.81 dBm
1.8900667 GHz
M2 18.036605657 MHz
Occ Bw
M2[1] 15.12 dBm
1.9042667 GHz
T1
T2
D1 -10.876 dBm
D3
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 1.9 GHz
601 pts
Span 40.0 MHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 1.8900667 GHz | -13.81 dBm | |
T1 | | 1 | 1.891015 GHz | 10.44 dBm | Occ Bw | 18.036605657 MHz
T2 | | 1 | 1.9090516 GHz | 11.12 dBm | |
M2 | | 1 | 1.9042667 GHz | 15.12 dBm | |
D3 | M1 | 1 | 19.8667 MHz | 2.17 dB | |
Date: 14.OCT.2020 12:07:10

Appendix C: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	-28.43	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-28.73	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-28.67	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-29.75	PASS
Band2	3MHz	QPSK	18615	15RB#0	-25.86	PASS
Band2	3MHz	QPSK	19185	15RB#0	-27.82	PASS
Band2	3MHz	16QAM	18615	15RB#0	-29.13	PASS
Band2	3MHz	16QAM	19185	15RB#0	-29.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	-28.04	PASS
Band2	5MHz	QPSK	19175	25RB#0	-29.38	PASS
Band2	5MHz	16QAM	18625	25RB#0	-29.31	PASS
Band2	5MHz	16QAM	19175	25RB#0	-30.01	PASS
Band2	10MHz	QPSK	18650	50RB#0	-32.57	PASS
Band2	10MHz	QPSK	19150	50RB#0	-34.92	PASS
Band2	10MHz	16QAM	18650	50RB#0	-33.75	PASS
Band2	10MHz	16QAM	19150	50RB#0	-35.50	PASS
Band2	15MHz	QPSK	18675	75RB#0	-32.88	PASS
Band2	15MHz	QPSK	19125	75RB#0	-34.48	PASS
Band2	15MHz	16QAM	18675	75RB#0	-34.63	PASS
Band2	15MHz	16QAM	19125	75RB#0	-36.52	PASS
Band2	20MHz	QPSK	18700	100RB#0	-33.11	PASS
Band2	20MHz	QPSK	19100	100RB#0	-35.30	PASS
Band2	20MHz	16QAM	18700	100RB#0	-34.35	PASS
Band2	20MHz	16QAM	19100	100RB#0	-36.25	PASS

Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0

Band2-1.4MHz-QPSK-19193-6RB#0

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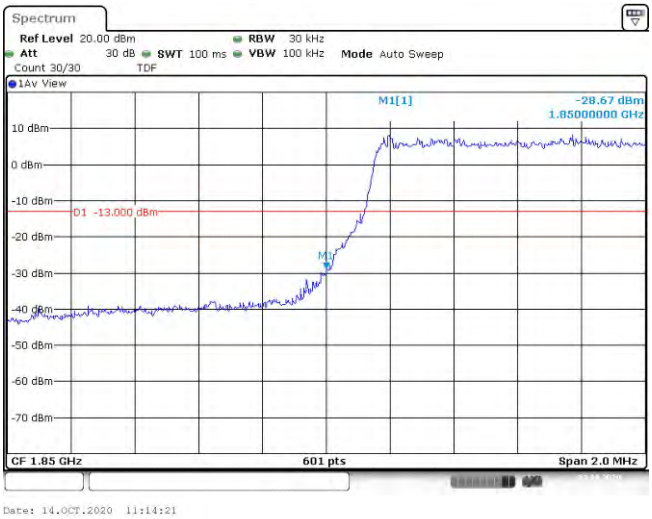
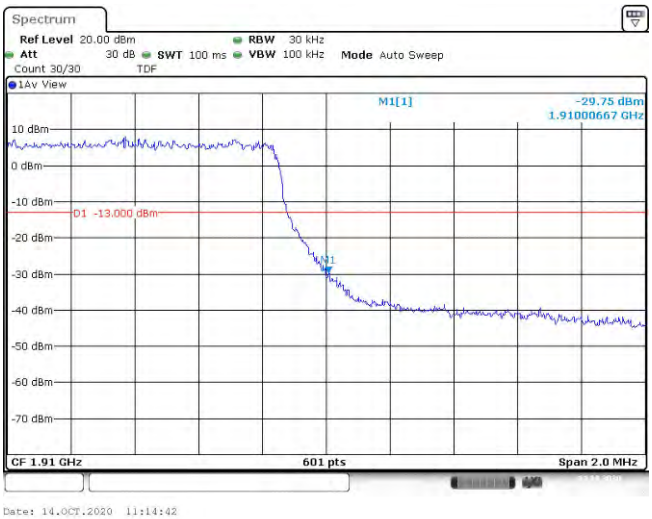


Band2-1.4MHz-16QAM-19193-6RB#0



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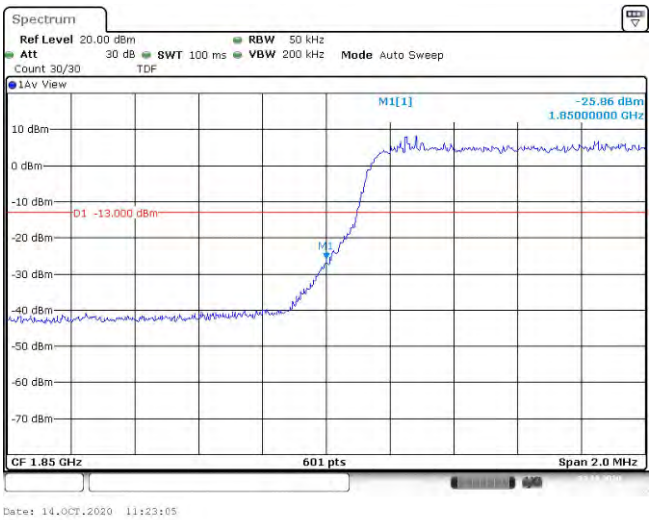

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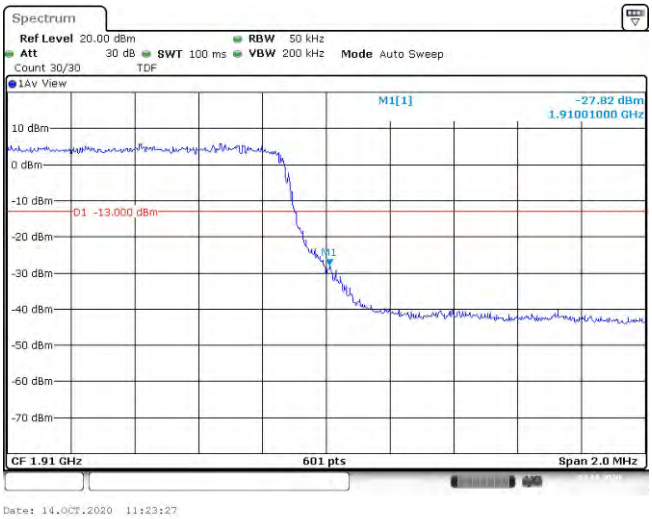
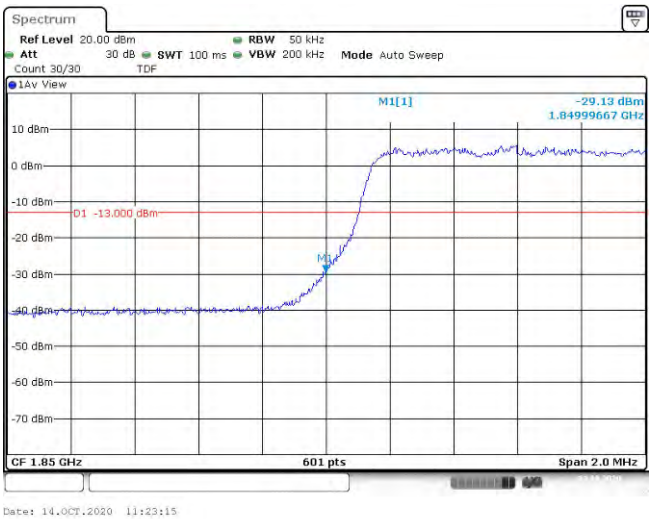
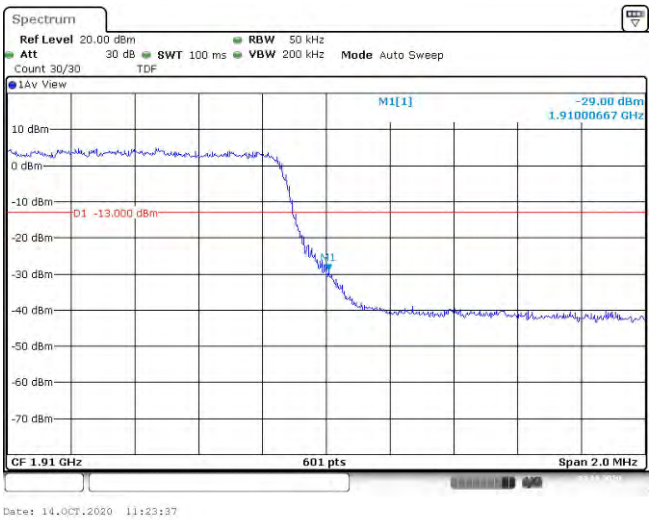


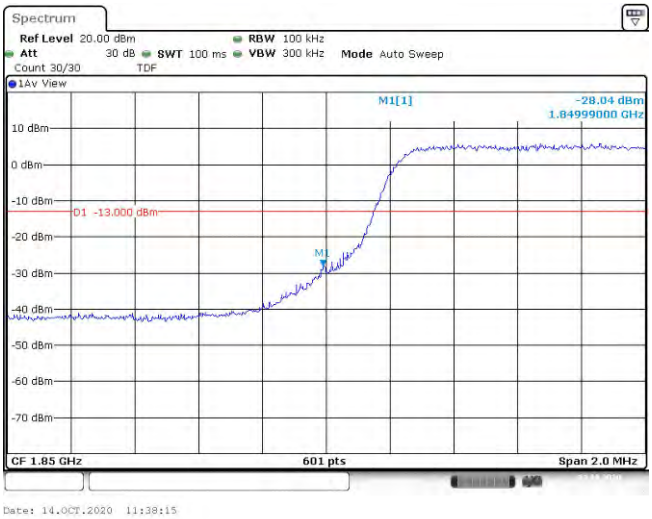
Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-19185-15RB#0



Band2-5MHz-QPSK-18625-25RB#0



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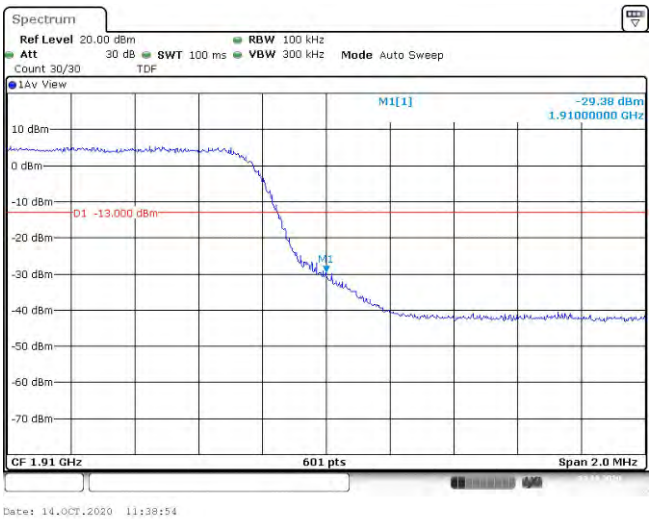
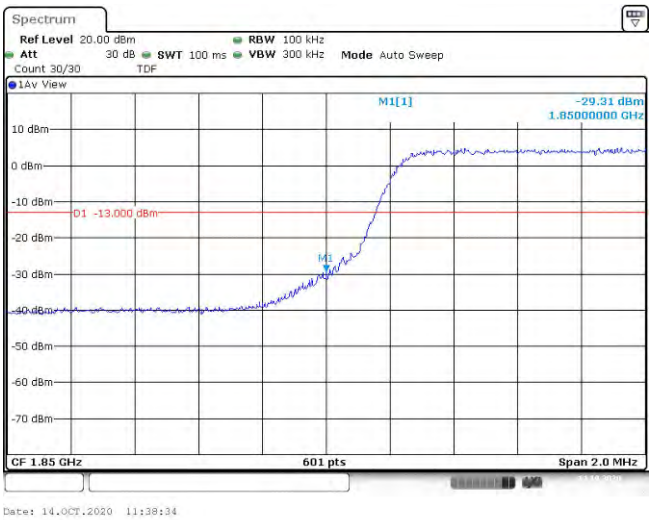


Band2-5MHz-16QAM-18625-25RB#0



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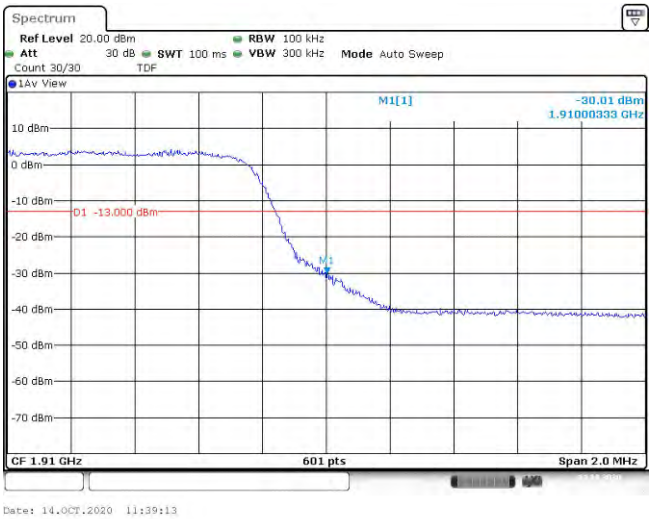

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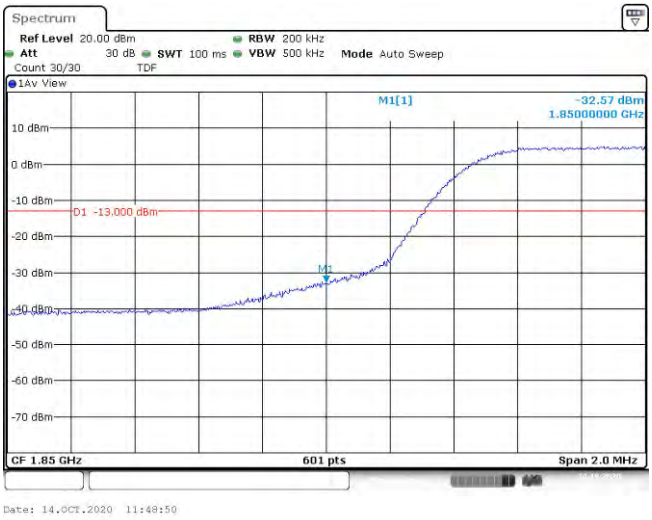

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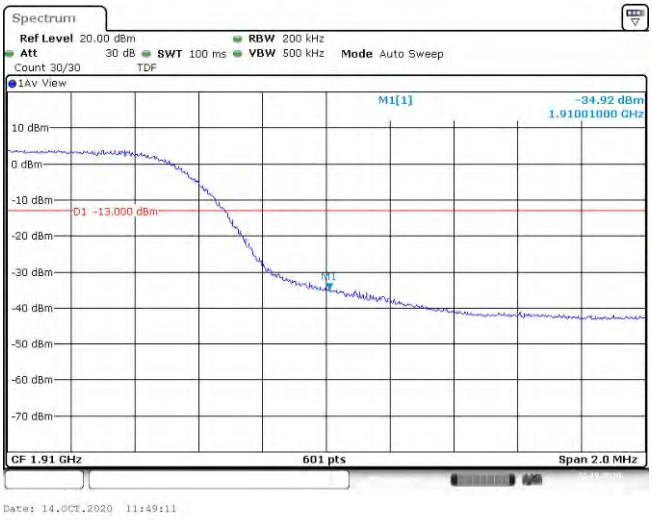

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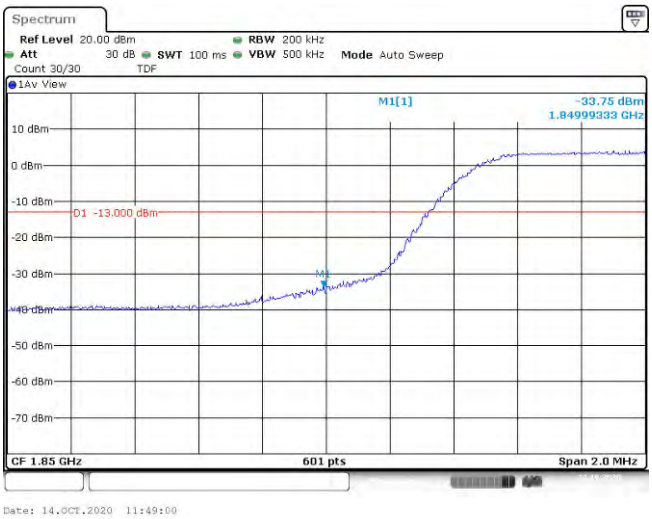
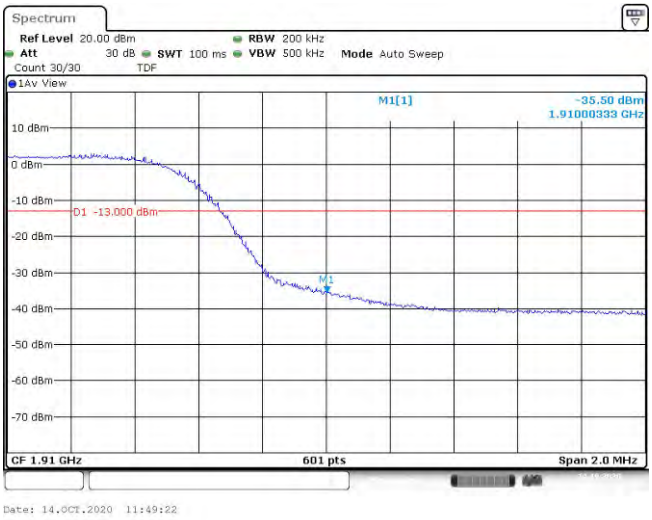


Band2-10MHz-16QAM-19150-50RB#0



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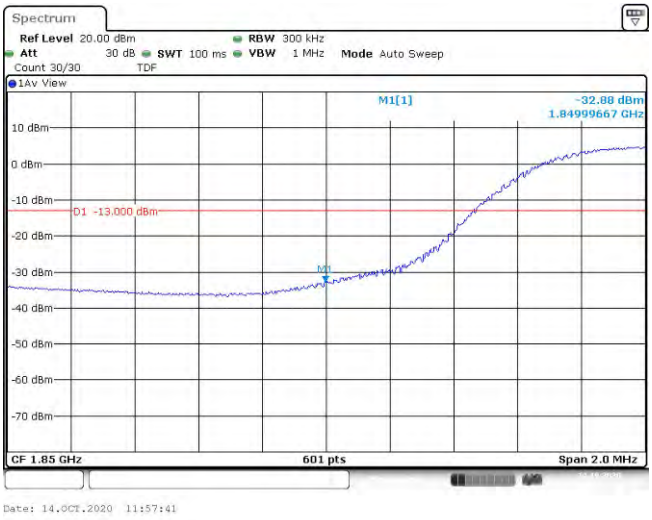
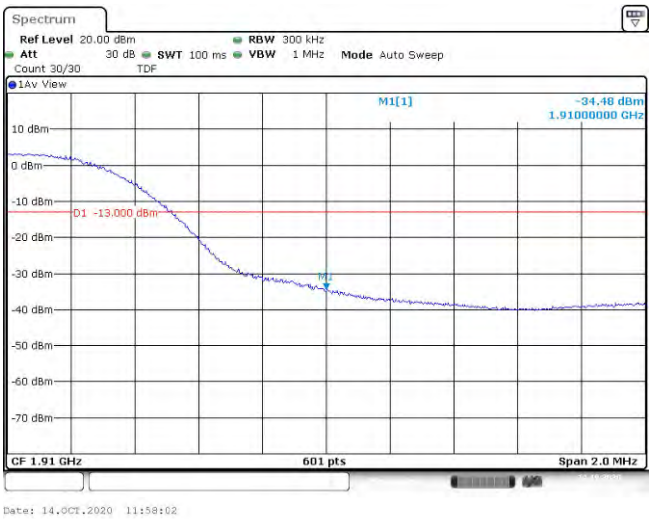


Band2-15MHz-QPSK-19125-75RB#0



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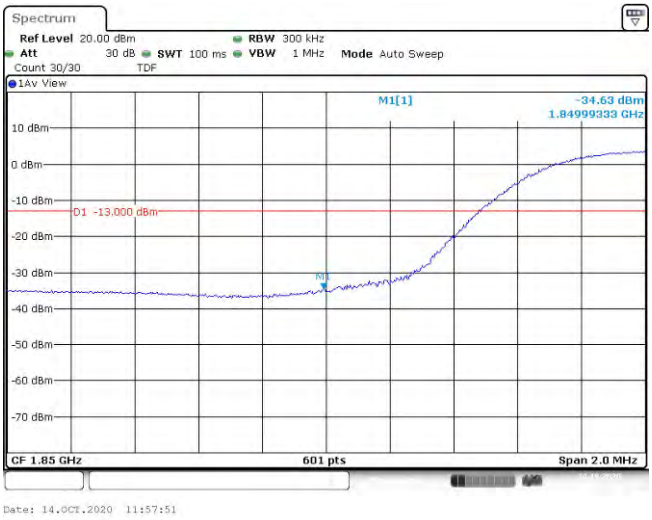

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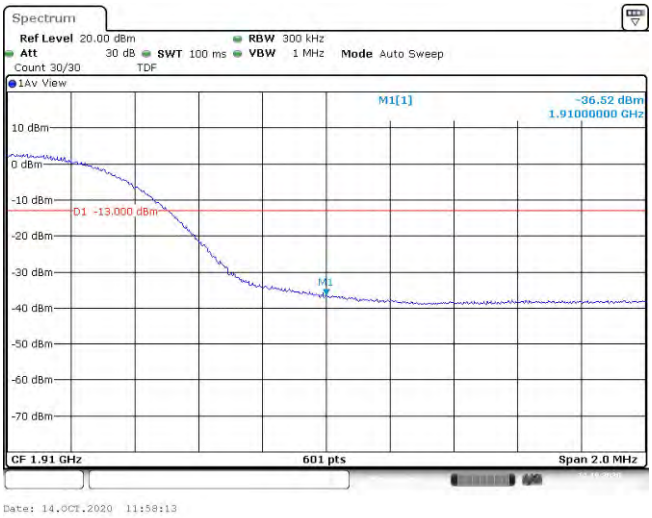
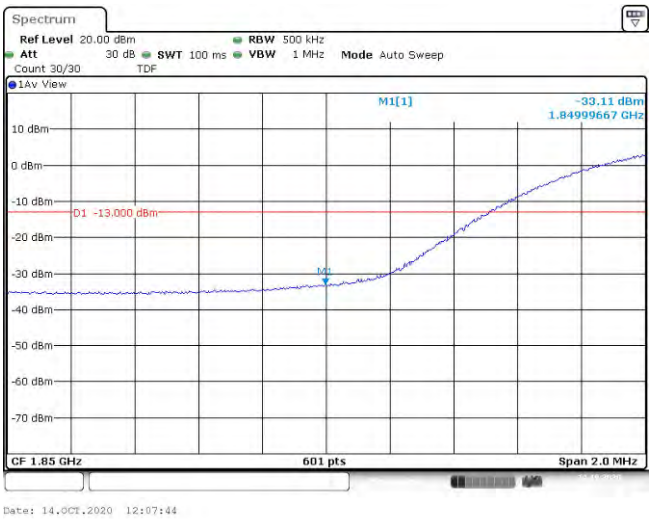


Band2-20MHz-QPSK-18700-100RB#0



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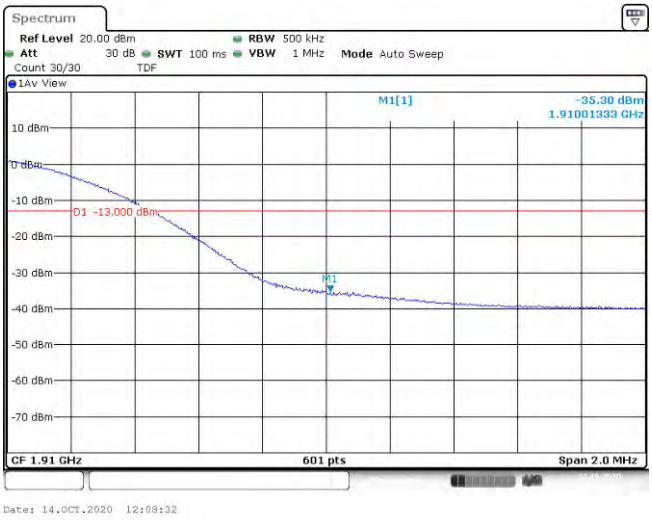

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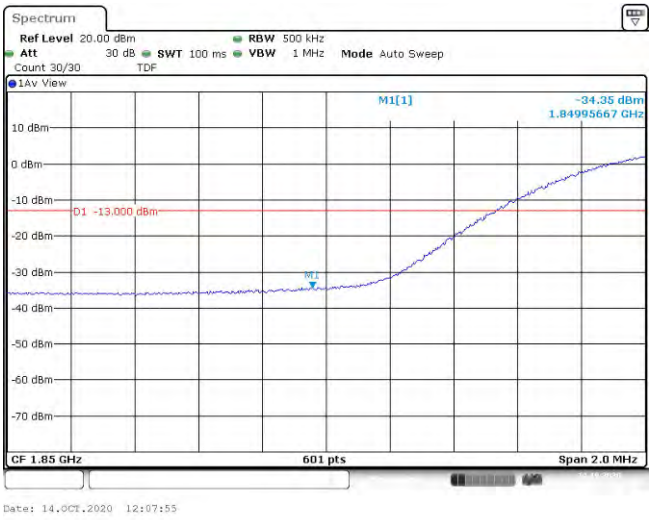

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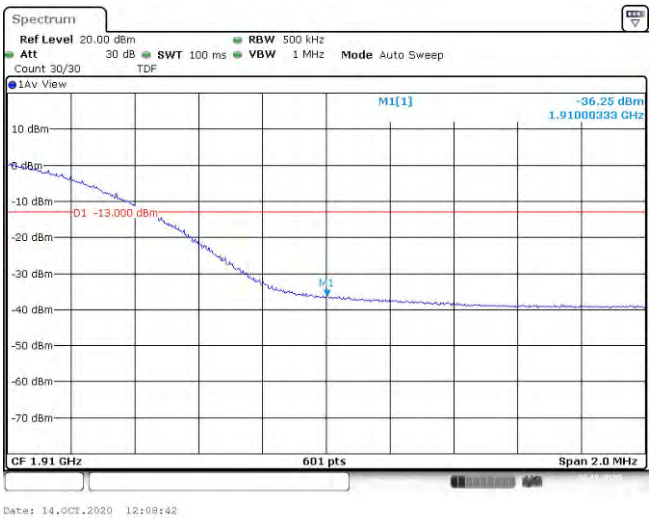
Spectrum
Ref Level 20.00 dBm
RBW 500 kHz
Att 30 dB
SWT 100 ms
VBW 1 MHz
Mode Auto Sweep
Count 30/30
TDF
1Av View
M1[1]
-36.25 dBm
1.91000333 GHz
10 dBm
0 dBm
-10 dBm
D1 -13.000 dBm
-20 dBm
-30 dBm
M1
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 1.91 GHz
601 pts
Span 2.0 MHz
Date: 14.OCT.2020 12:08:42