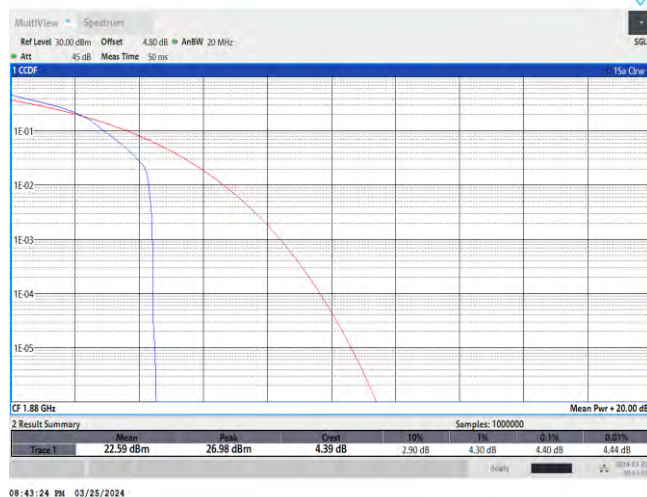


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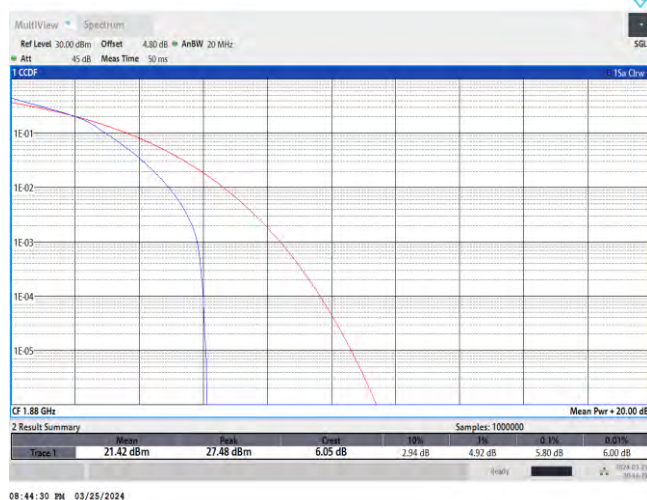
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Band2-15MHz-16QAM-18900-1RB#0



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



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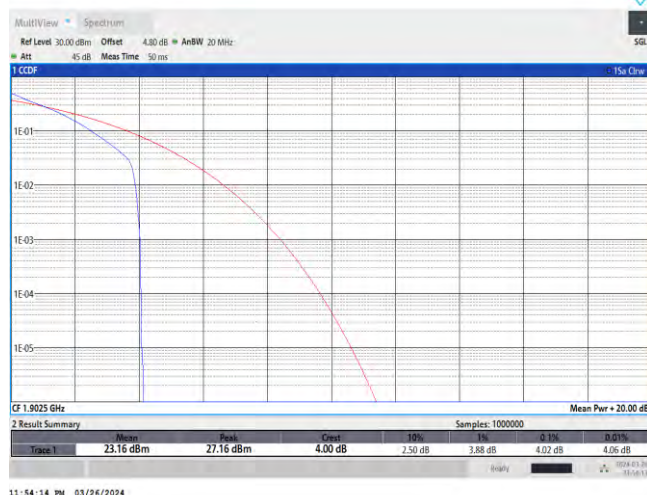
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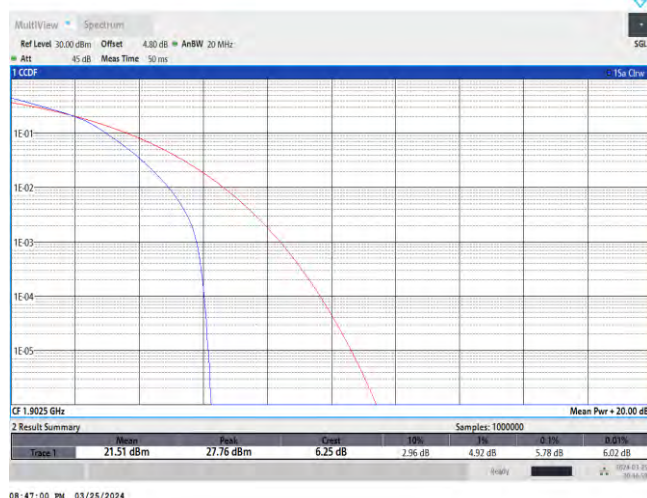
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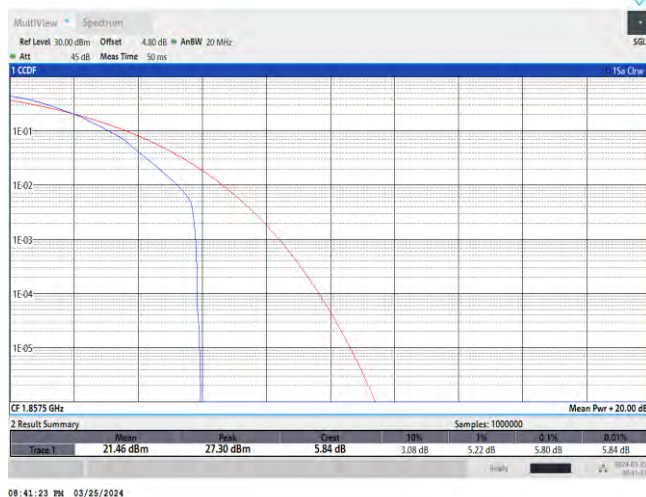
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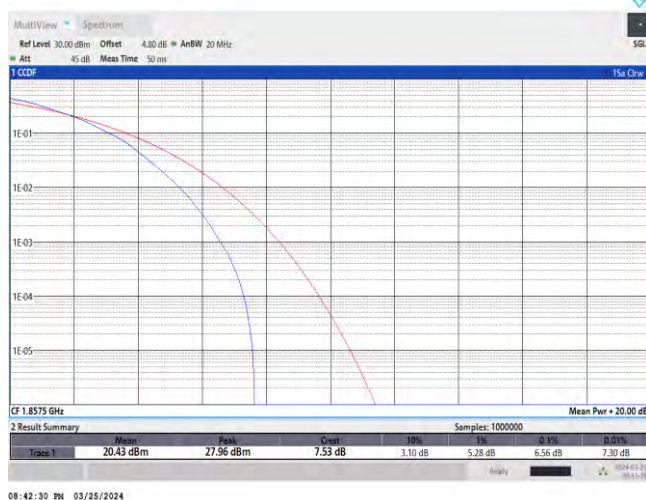
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Band2-15MHz-64QAM-18675-1RB#0



Band2-15MHz-64QAM-18675-75RB#0



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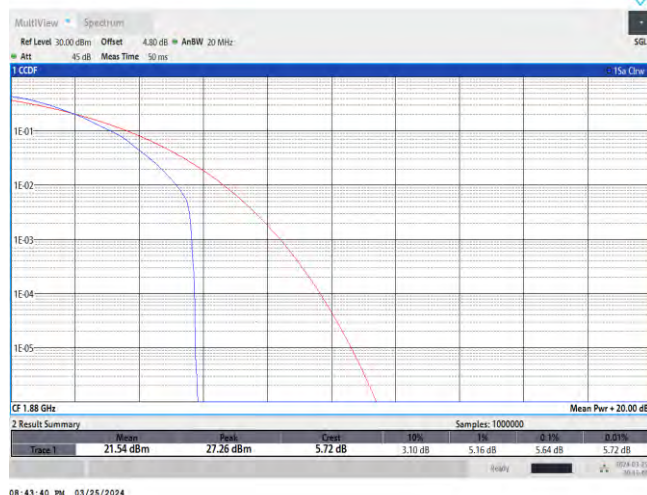
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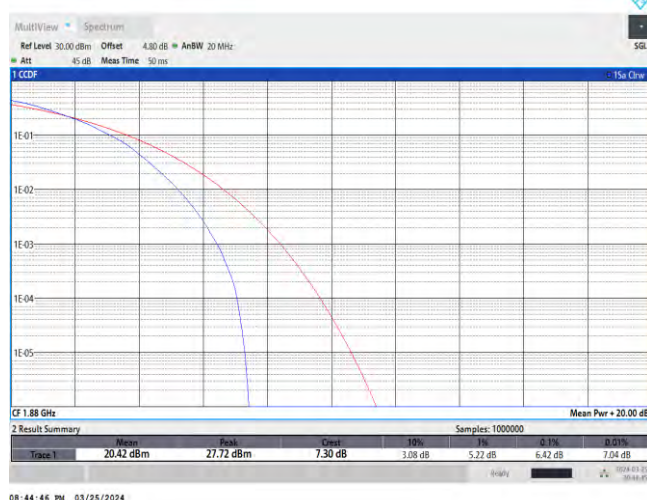
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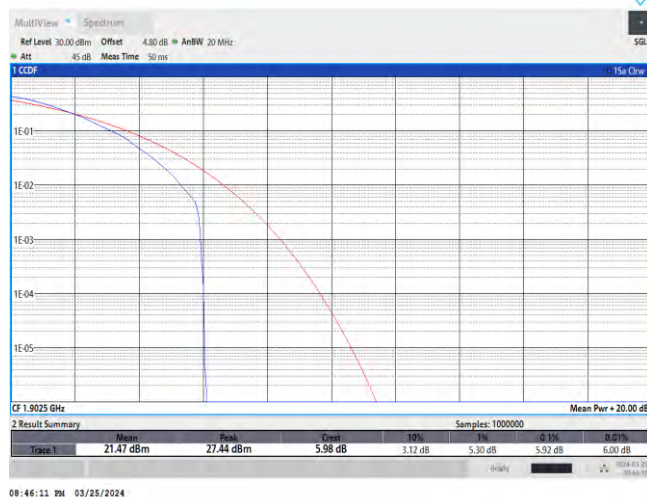
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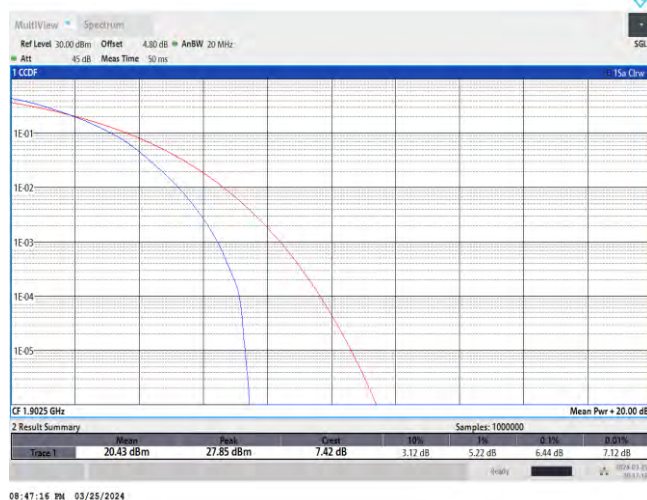
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Band2-15MHz-64QAM-19125-75RB#0



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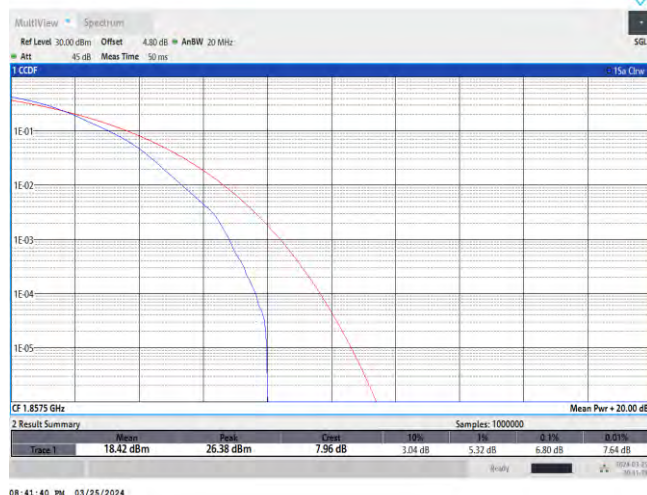
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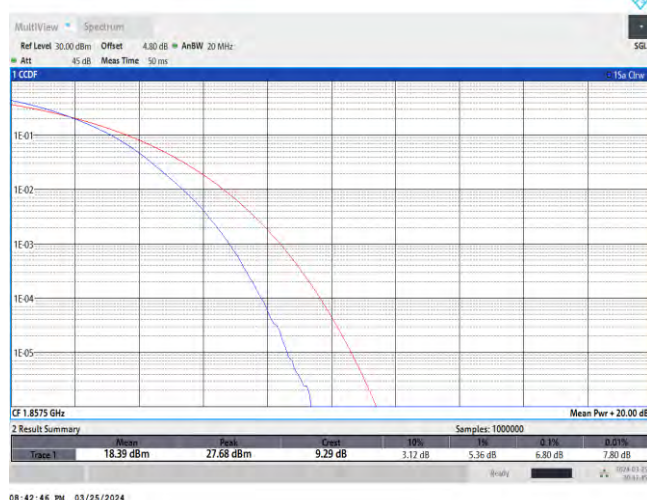
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Band2-15MHz-256QAM-18675-1RB#0



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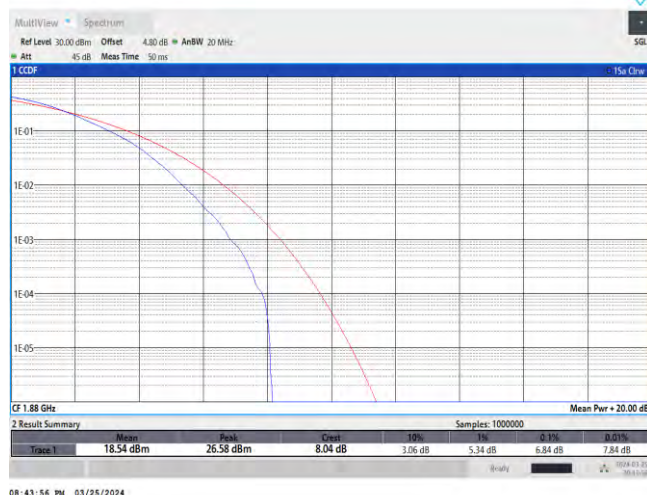
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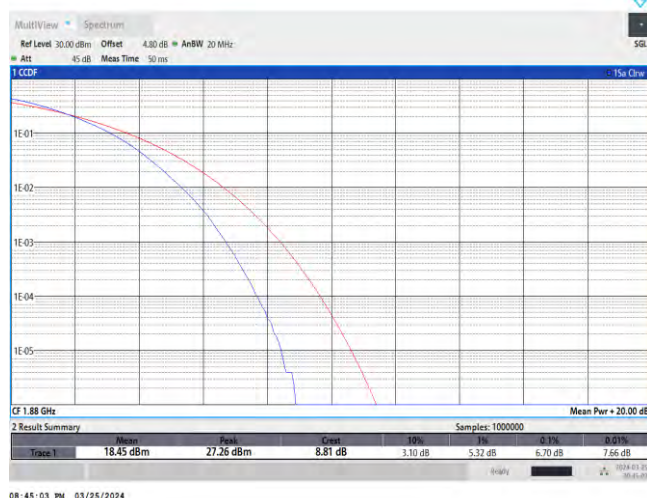
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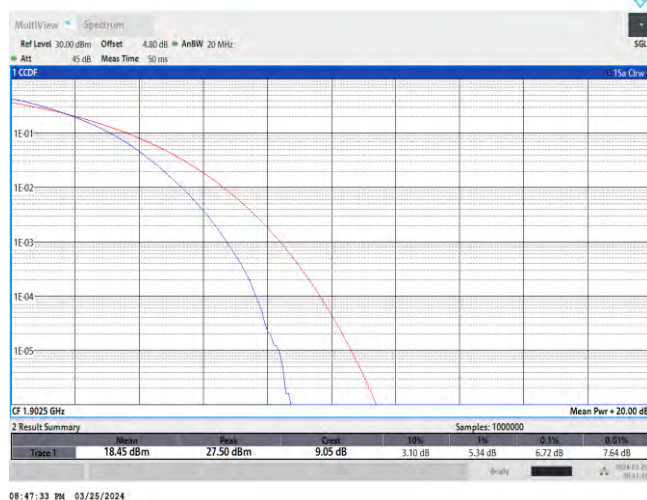
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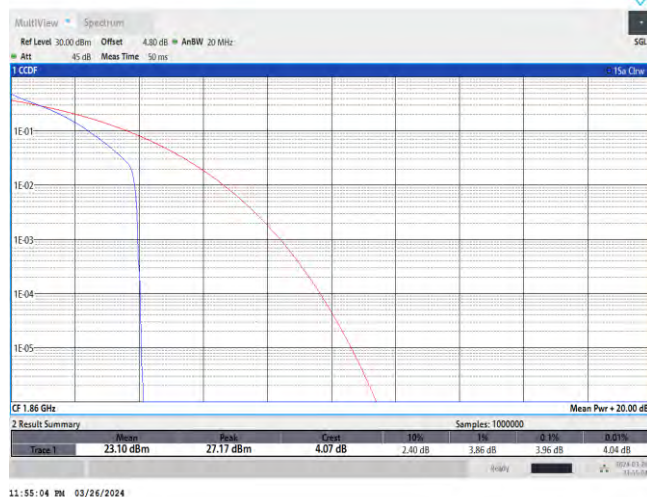
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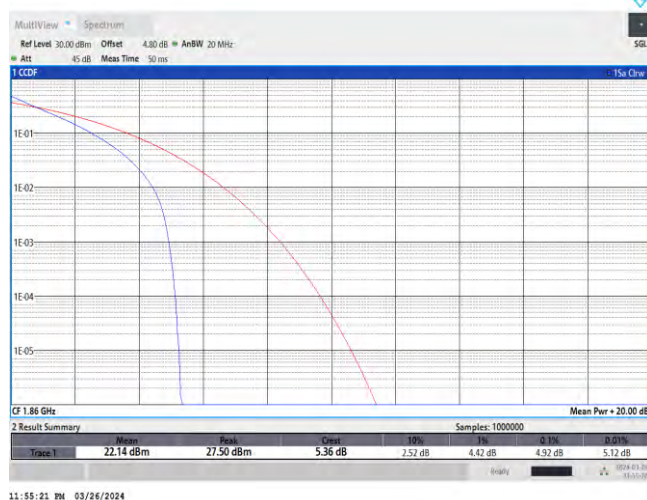
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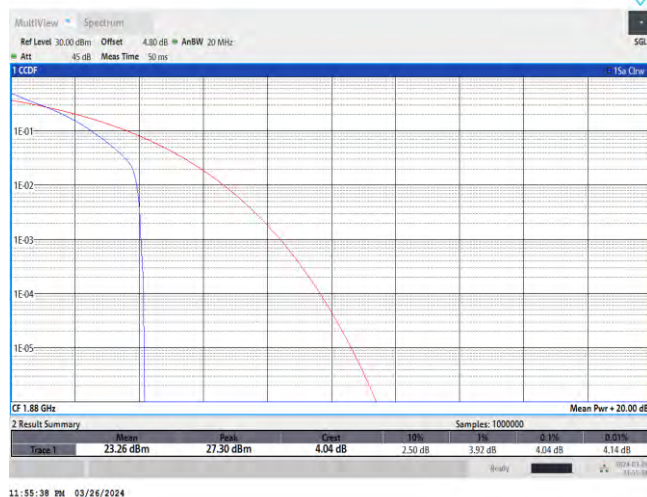
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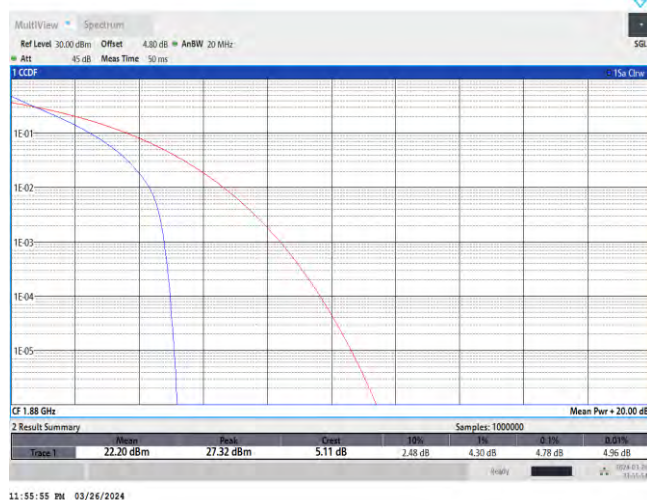
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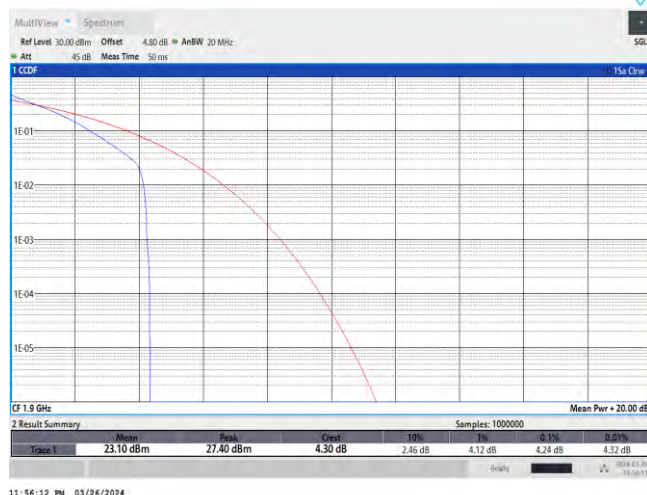
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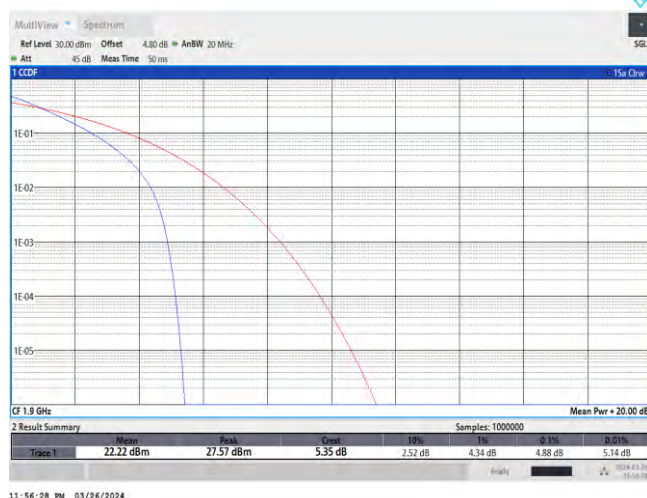
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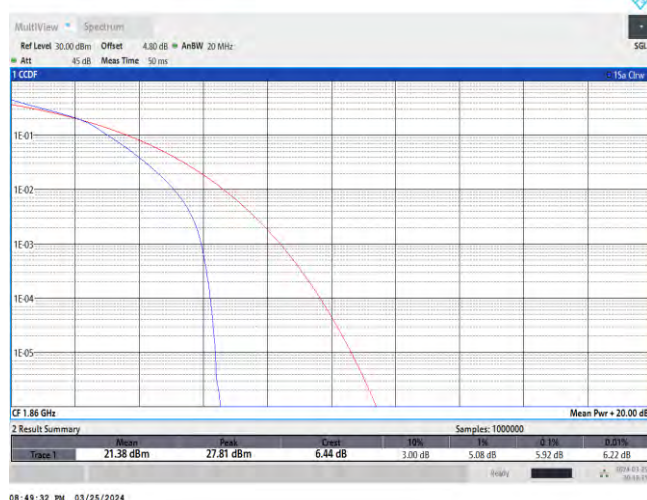
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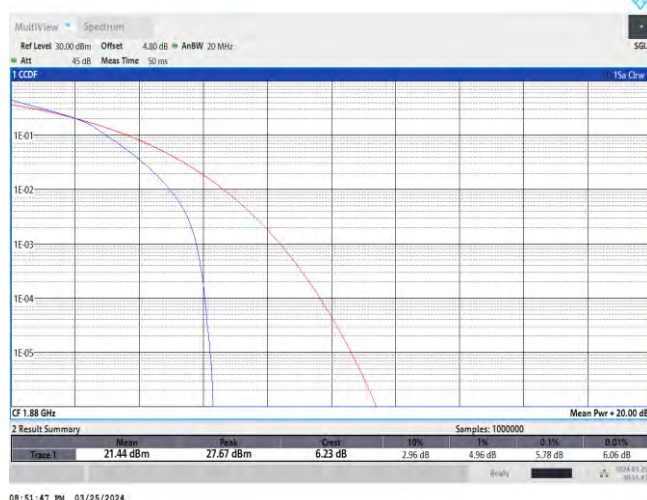
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Band2-20MHz-16QAM-18900-1RB#0



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



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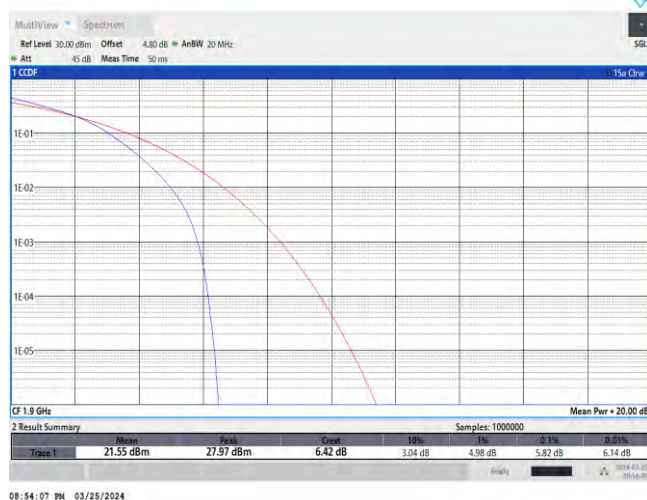
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Band2-20MHz-16QAM-19100-1RB#0



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



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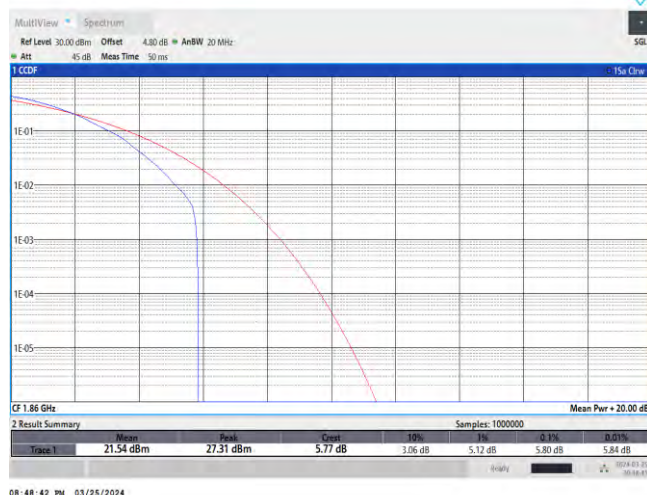
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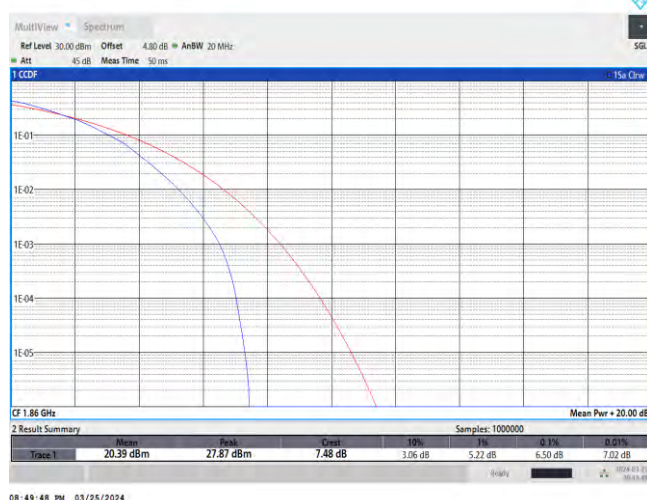
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Band2-20MHz-64QAM-18700-1RB#0



Band2-20MHz-64QAM-18700-100RB#0



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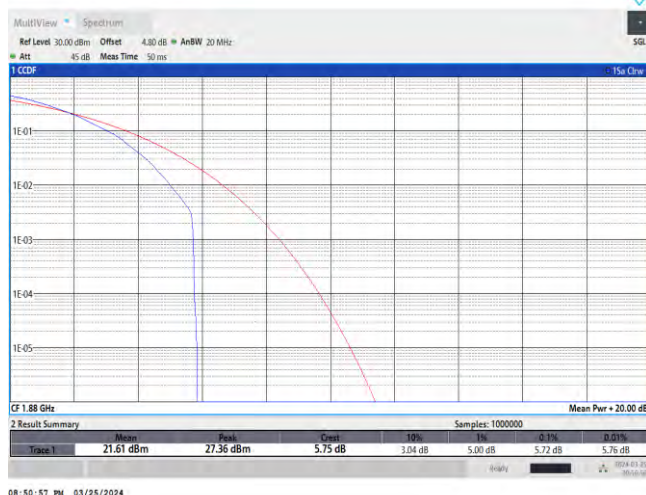
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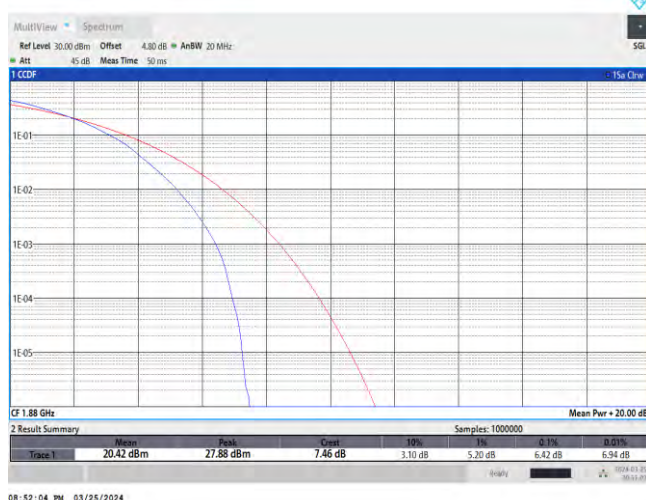
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Band2-20MHz-64QAM-18900-1RB#0



Band2-20MHz-64QAM-18900-100RB#0



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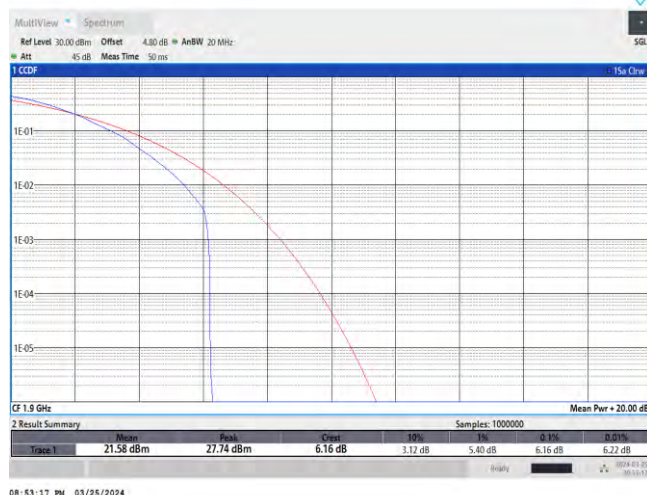
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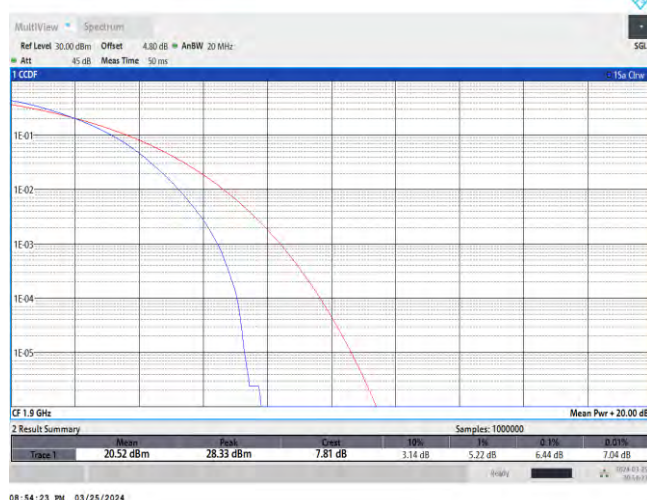
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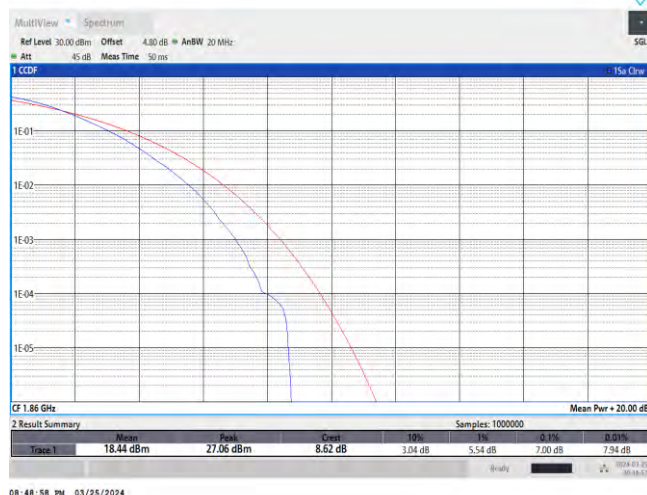
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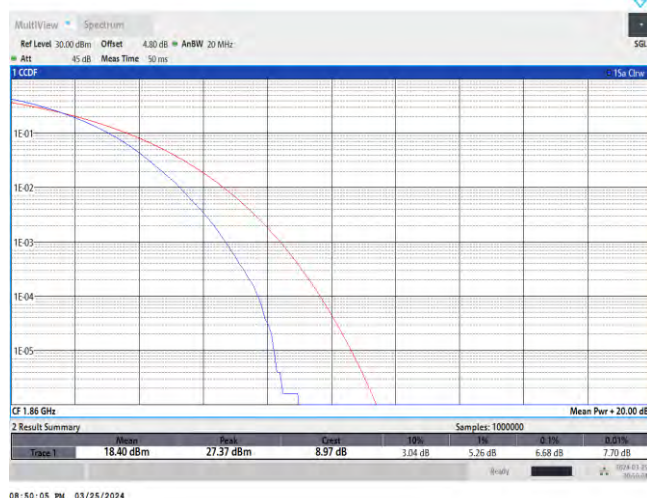
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Band2-20MHz-256QAM-18700-1RB#0



Band2-20MHz-256QAM-18700-100RB#0



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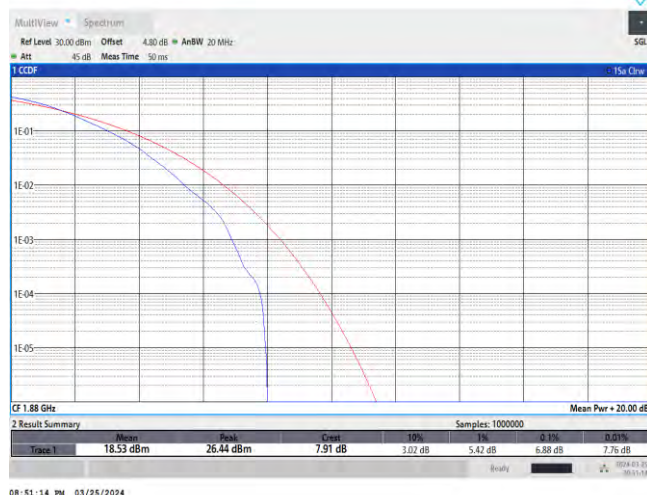
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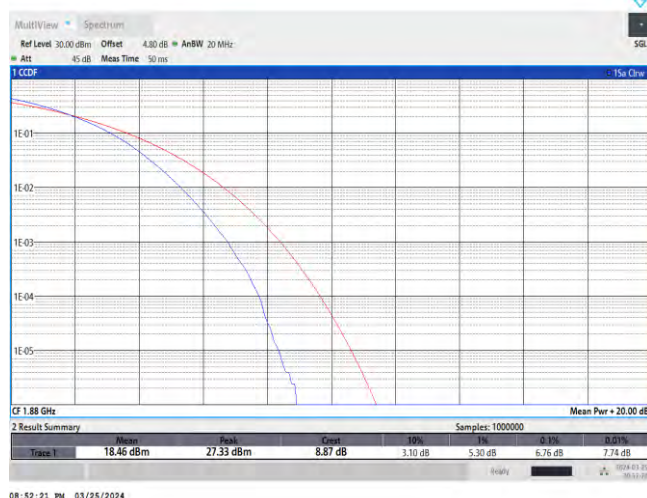
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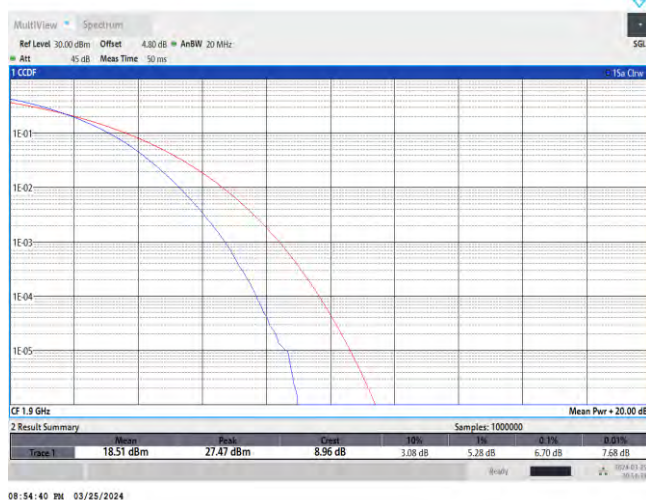
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18900	6RB#0	1.107	1.37	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.113	1.42	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.105	1.38	PASS
Band2	1.4MHz	256QAM	18900	6RB#0	1.104	1.39	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7	3.04	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.702	3.02	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.699	3.07	PASS
Band2	3MHz	256QAM	18900	15RB#0	2.7	3.07	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.477	5.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.477	5.03	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.472	5.05	PASS
Band2	5MHz	256QAM	18900	25RB#0	4.481	5.06	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.942	9.98	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.949	9.88	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.949	9.90	PASS
Band2	10MHz	256QAM	18900	50RB#0	8.942	9.86	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.489	15.12	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.492	15.06	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.511	15.00	PASS
Band2	15MHz	256QAM	18900	75RB#0	13.49	15.06	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.906	19.76	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.888	19.68	PASS
Band2	20MHz	64QAM	18900	100RB#0	17.896	19.76	PASS
Band2	20MHz	256QAM	18900	100RB#0	17.903	19.80	PASS



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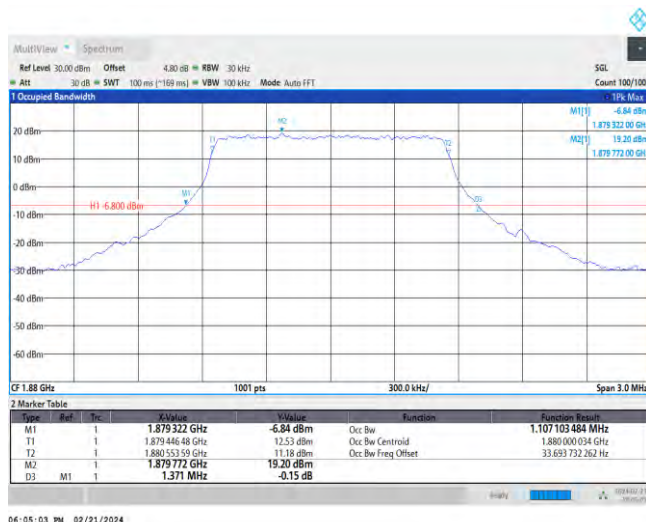
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Test Graphs

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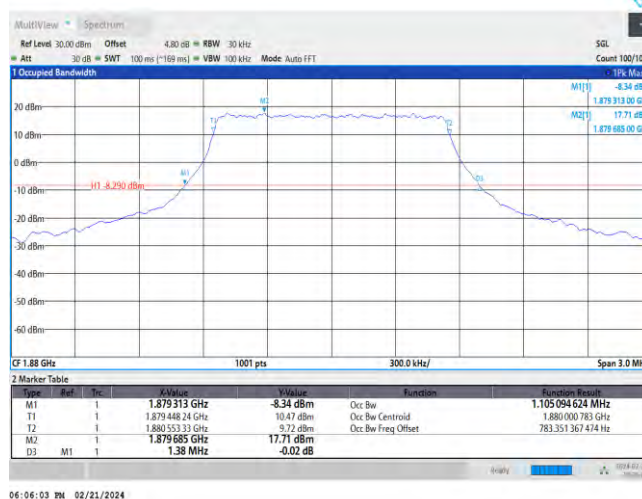
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Band2-1.4MHz-256QAM-18900-6RB#0



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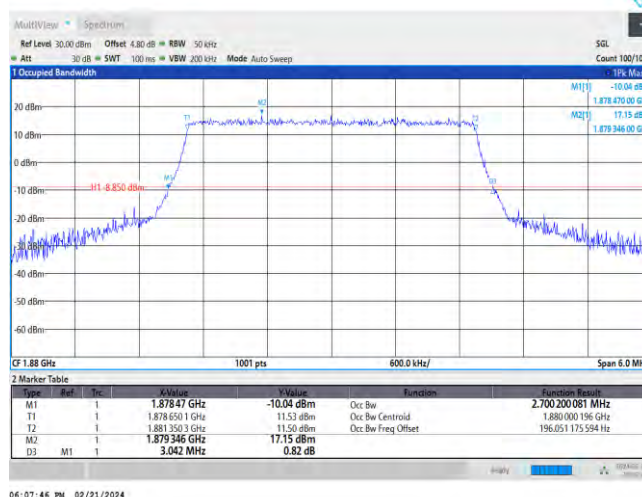
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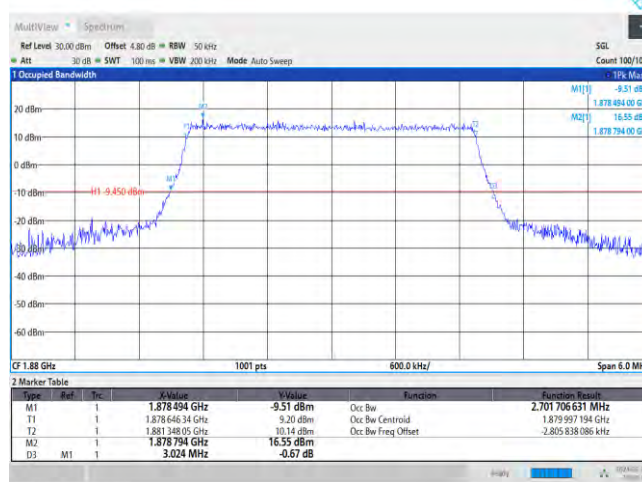
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Band2-3MHz-QPSK-18900-15RB#0



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



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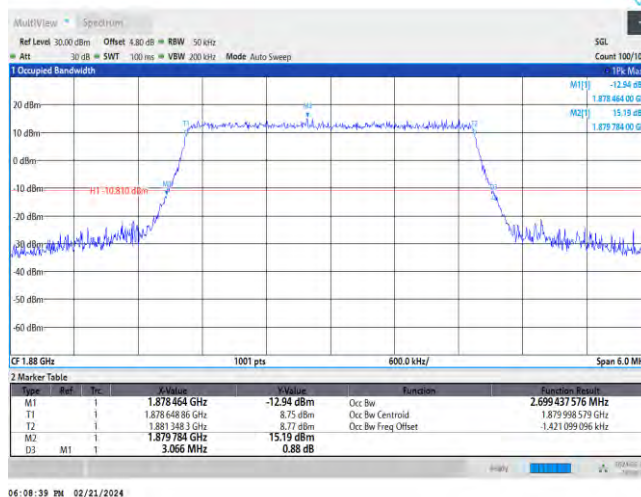
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Band2-3MHz-64QAM-18900-15RB#0



Band2-3MHz-256QAM-18900-15RB#0



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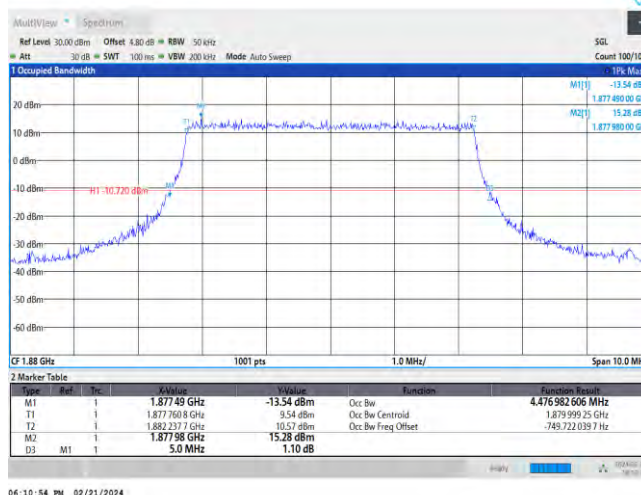
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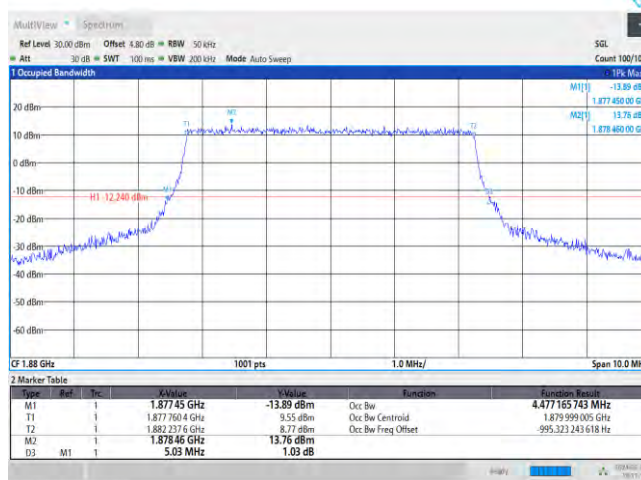
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Band2-5MHz-QPSK-18900-25RB#0



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



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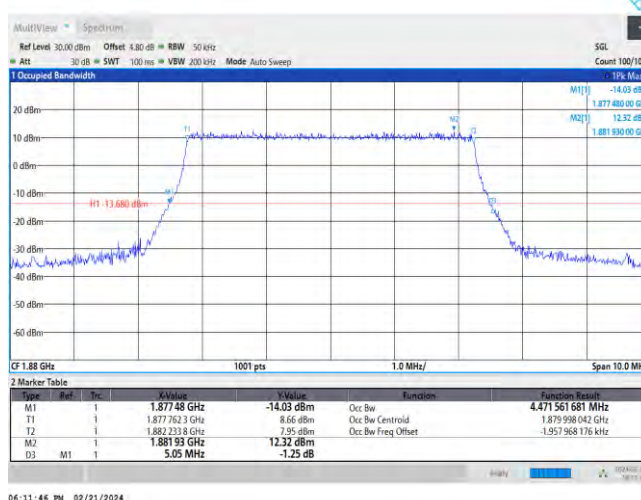
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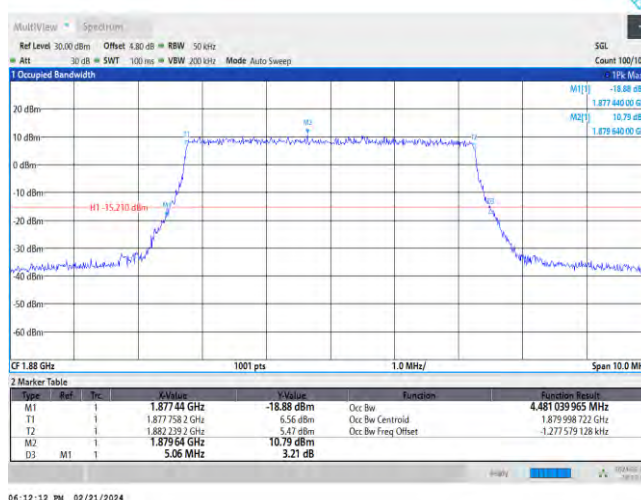
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Band2-5MHz-64QAM-18900-25RB#0



Band2-5MHz-256QAM-18900-25RB#0



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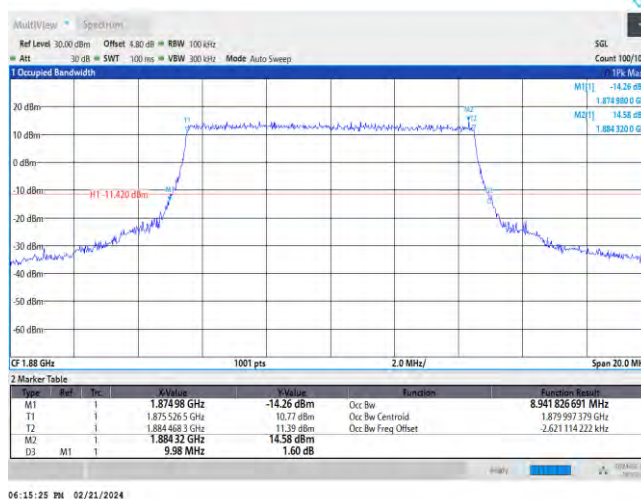
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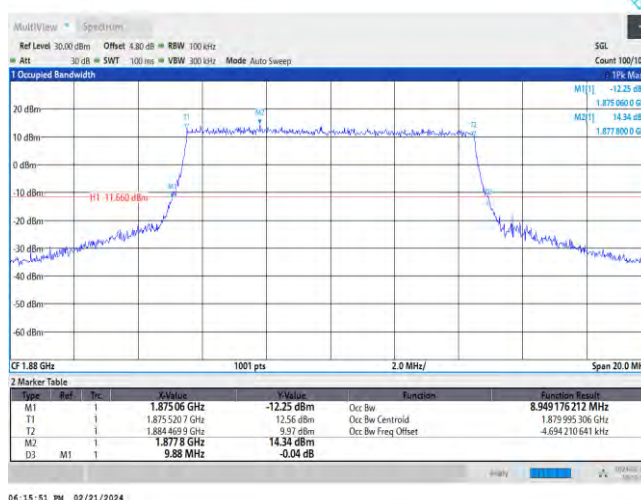
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Band2-10MHz-QPSK-18900-50RB#0



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



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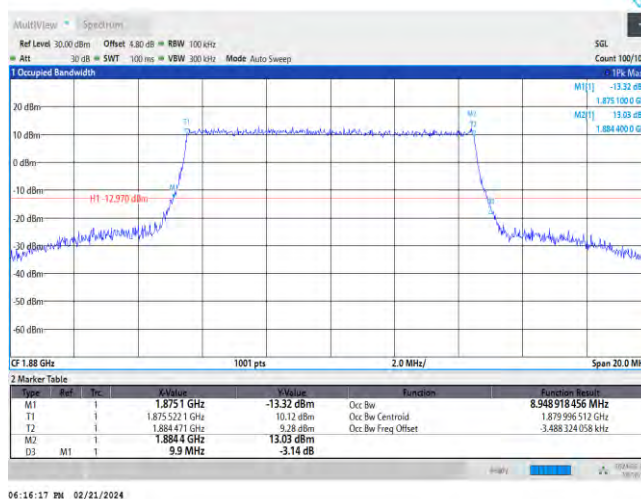
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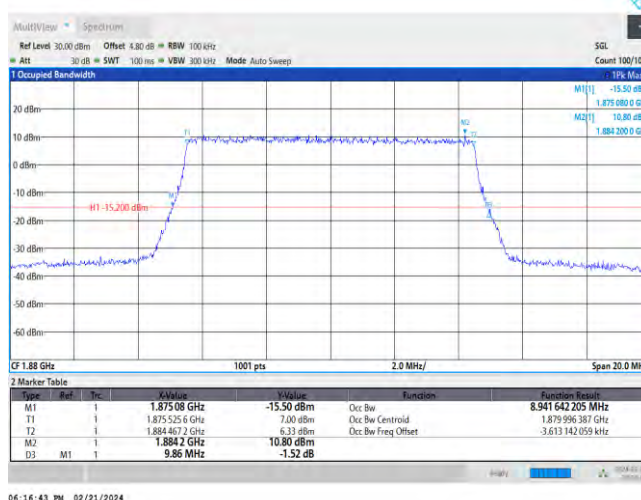
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Band2-10MHz-64QAM-18900-50RB#0



Band2-10MHz-256QAM-18900-50RB#0



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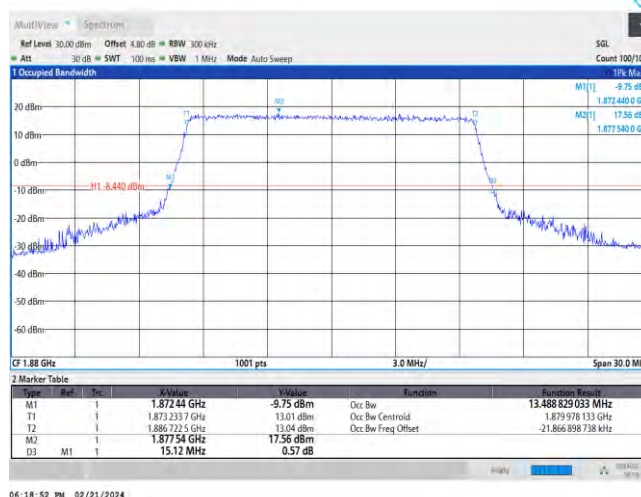
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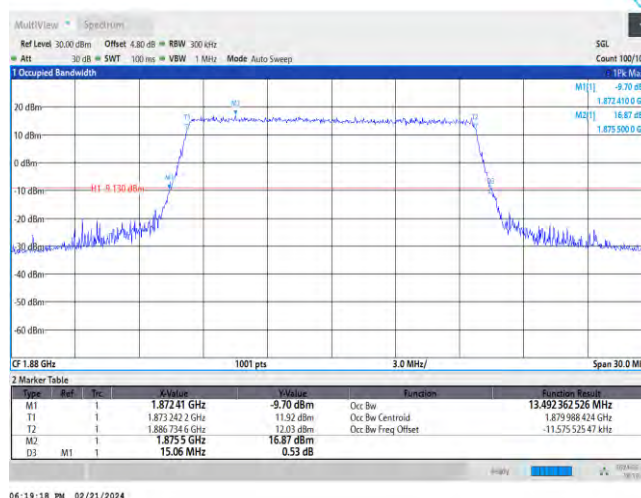
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Band2-15MHz-QPSK-18900-75RB#0



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



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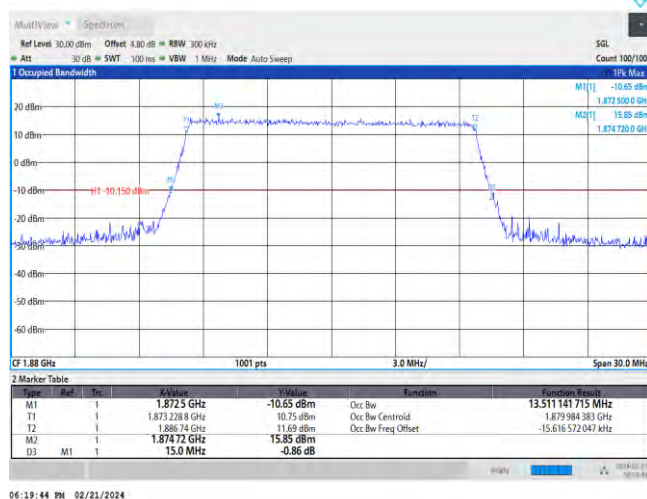
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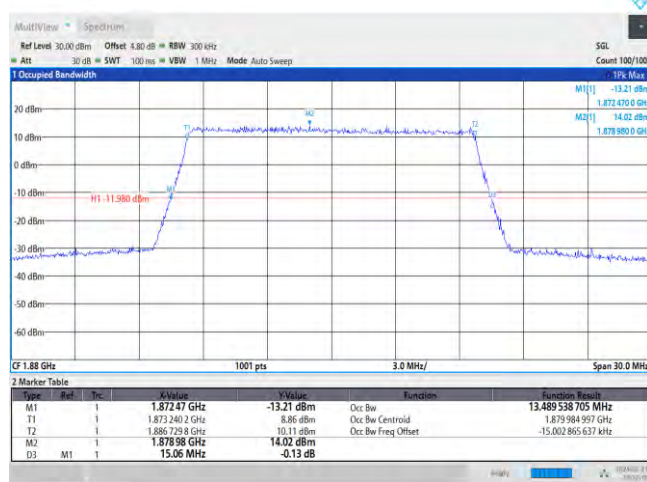
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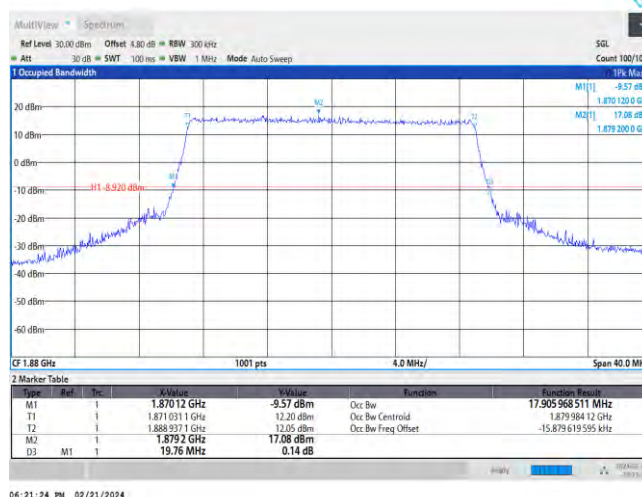
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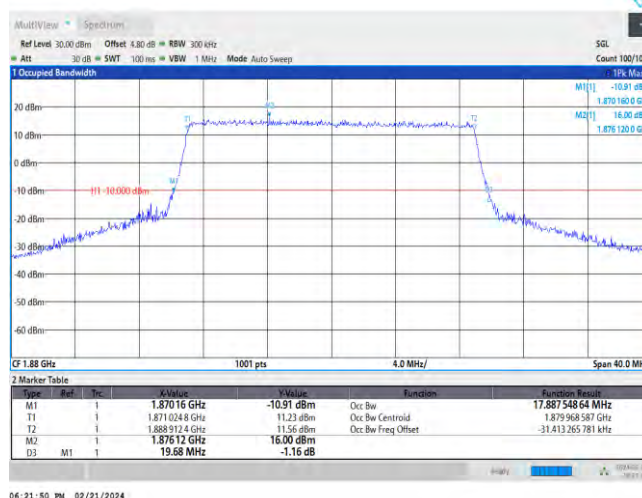
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Band2-20MHz-16QAM-18900-100RB#0



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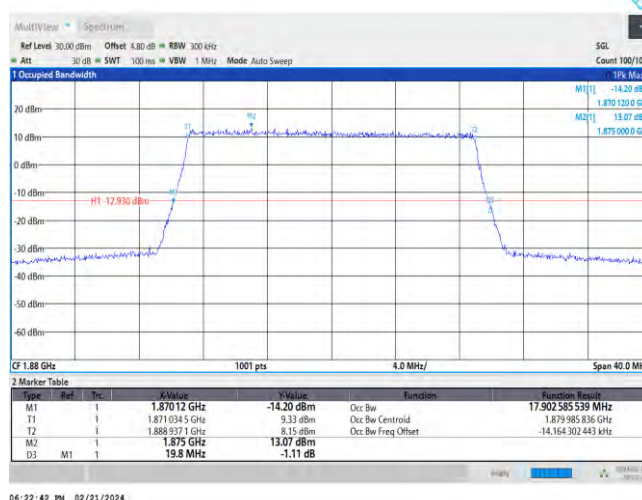
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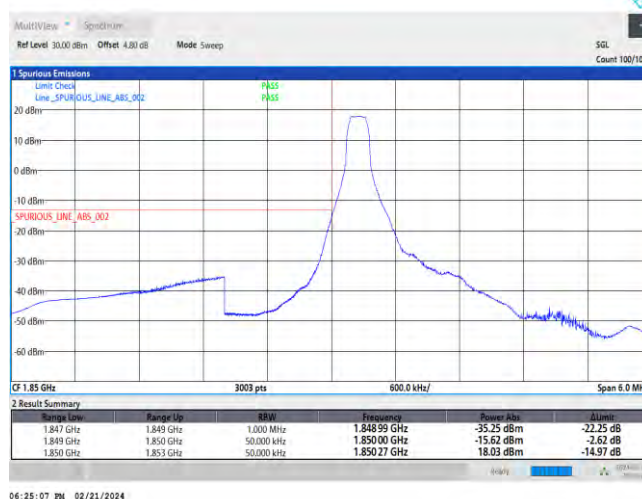
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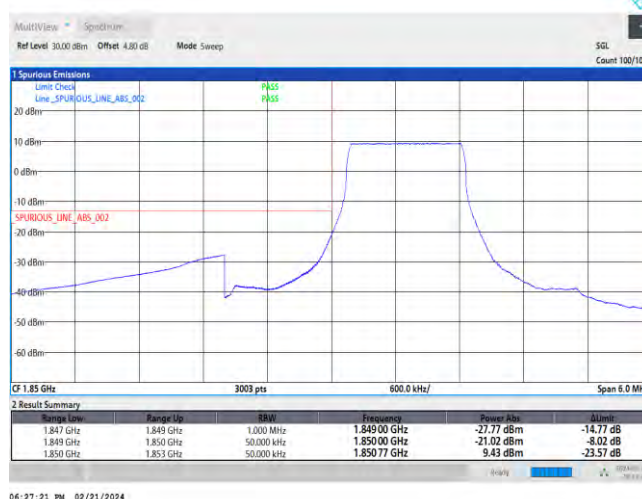
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Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



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



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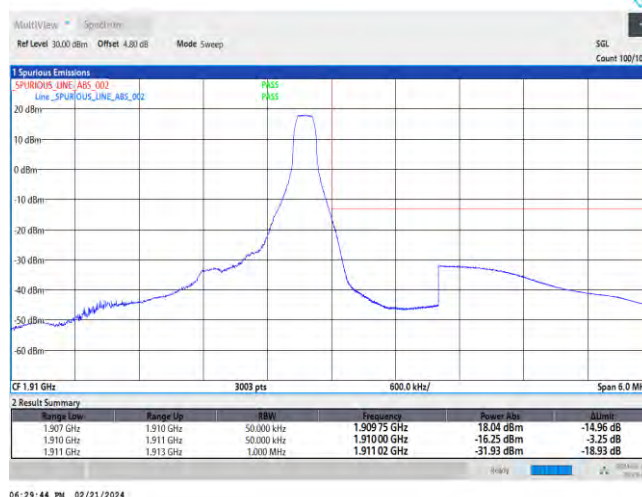
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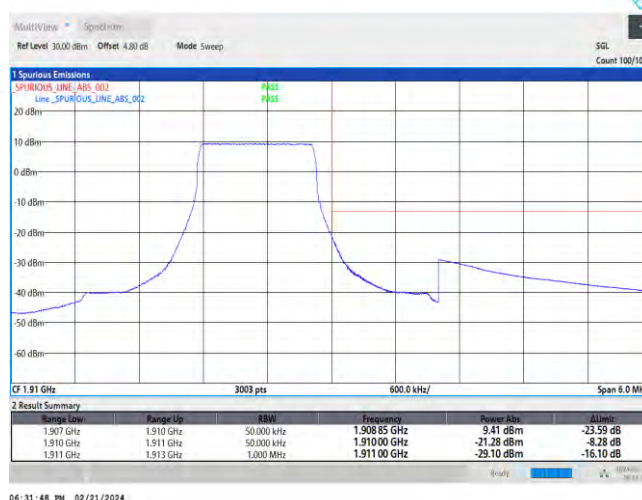
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Band2-1.4MHz-QPSK-19193-1RB#5



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



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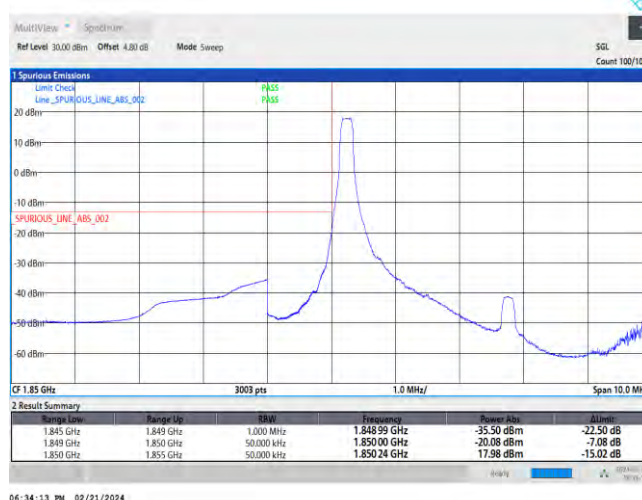
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Band2-3MHz-QPSK-18615-1RB#0



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



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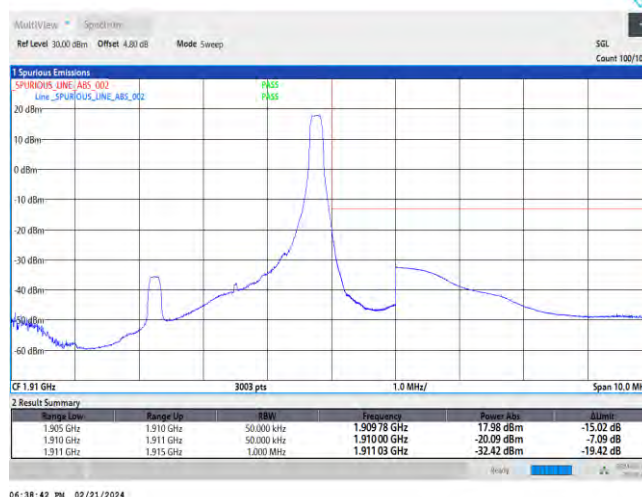
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Band2-3MHz-QPSK-19185-1RB#14



Band2-3MHz-QPSK-19185-15RB#0



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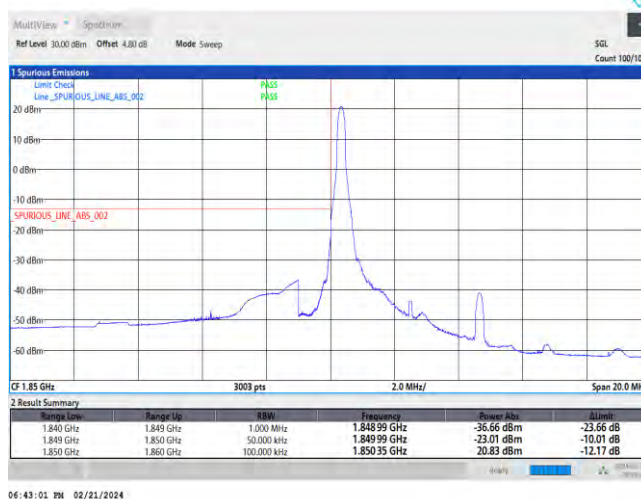
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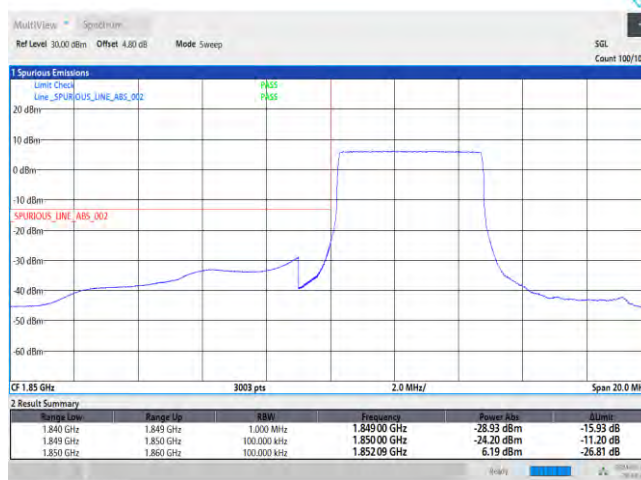
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Band2-5MHz-QPSK-18625-1RB#0



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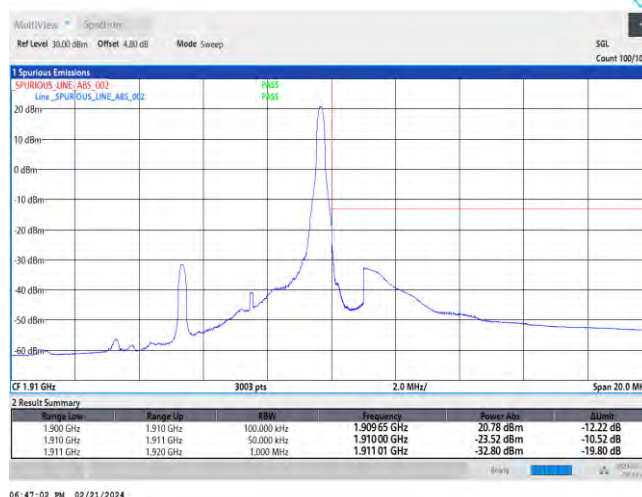
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Band2-5MHz-QPSK-19175-1RB#24



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



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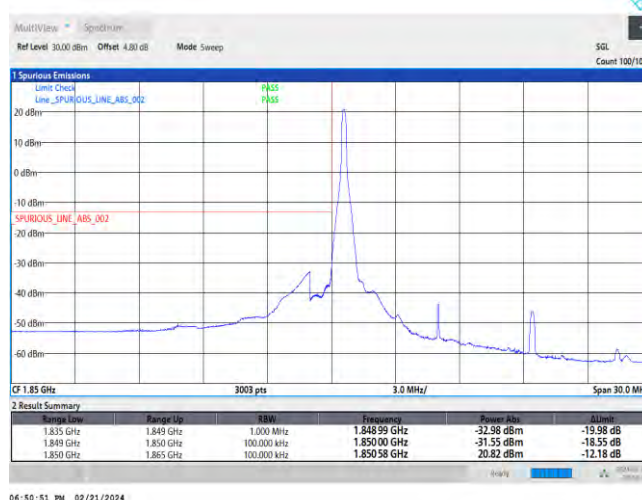
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Band2-10MHz-QPSK-18650-1RB#0



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



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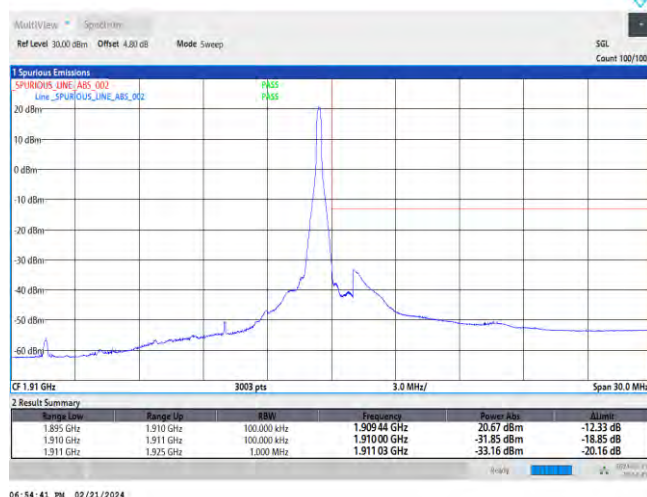
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Band2-10MHz-QPSK-19150-1RB#49



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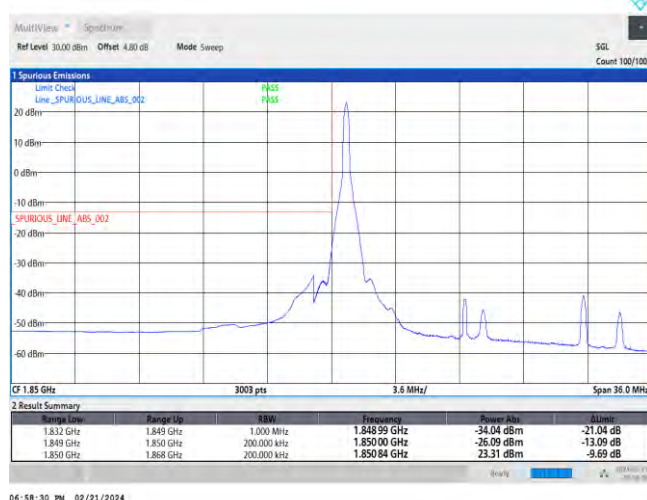
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Band2-15MHz-QPSK-18675-1RB#0



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



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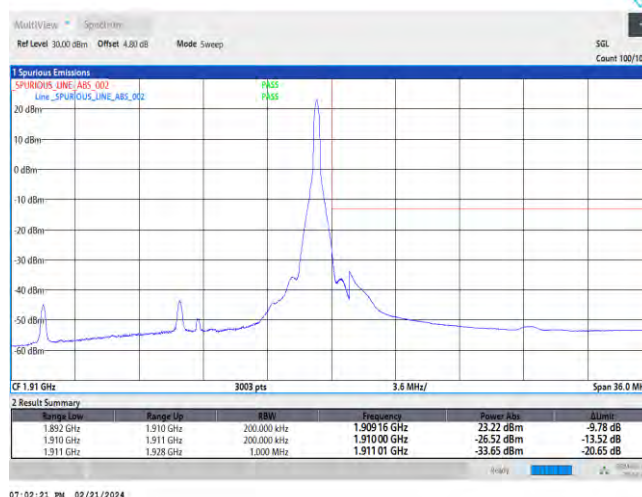
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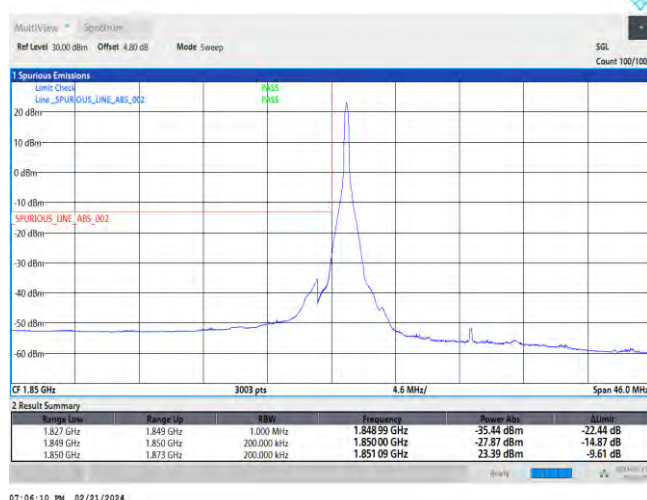
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Band2-20MHz-QPSK-18700-1RB#0



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



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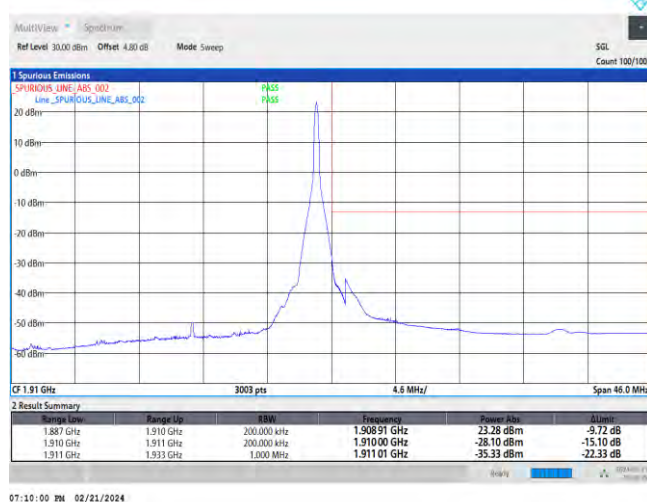
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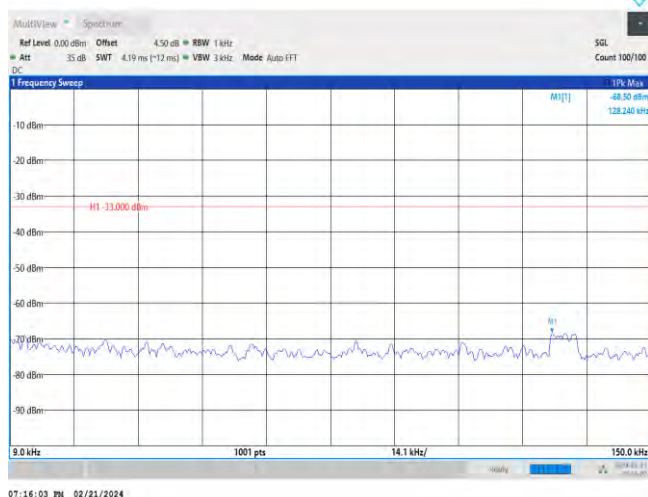
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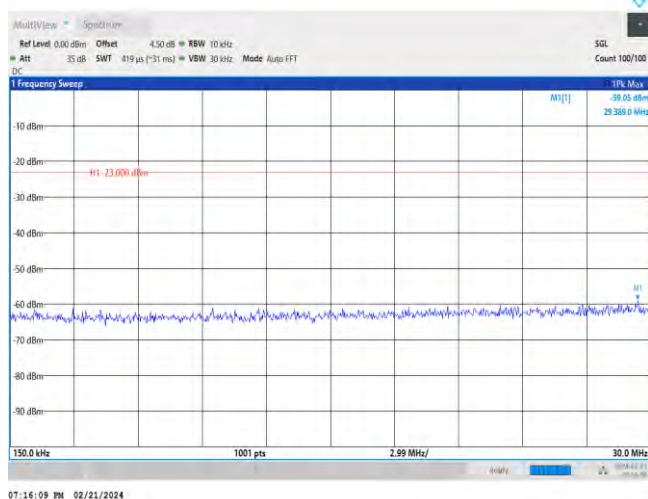
Conducted Spurious Emission

Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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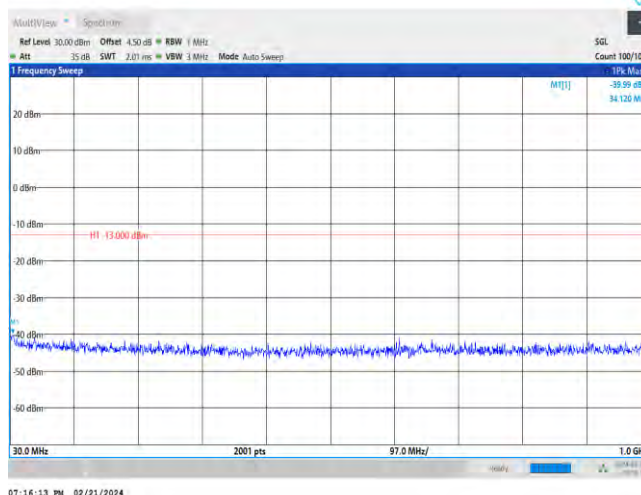
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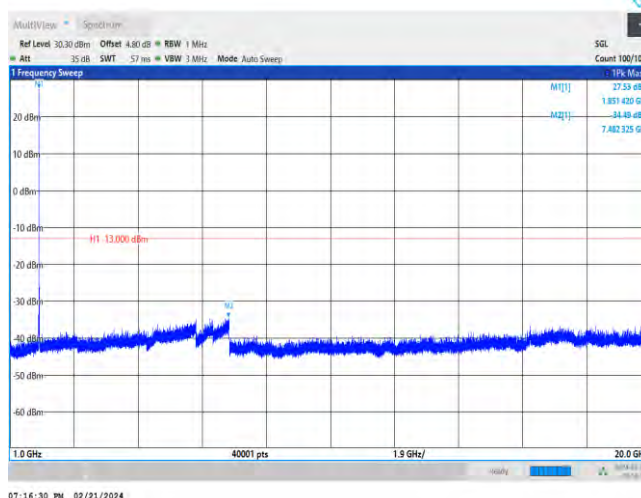
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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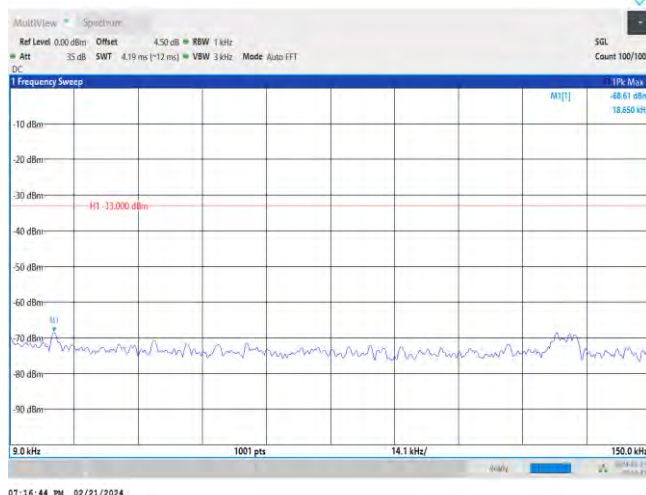
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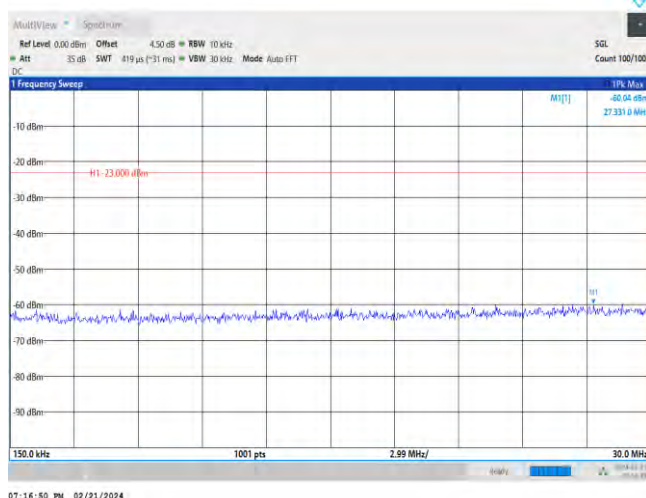
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



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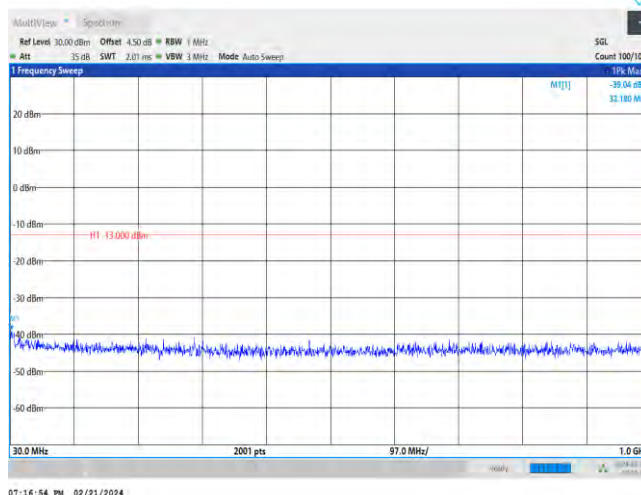
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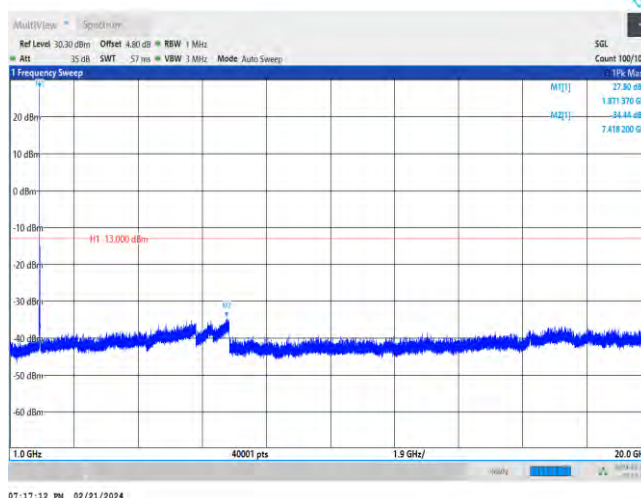
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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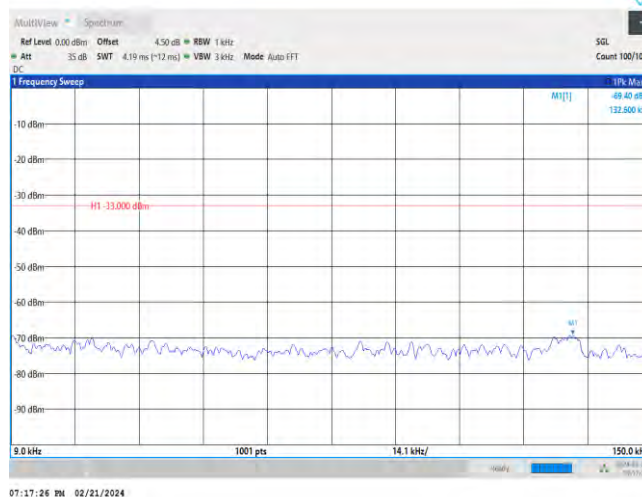
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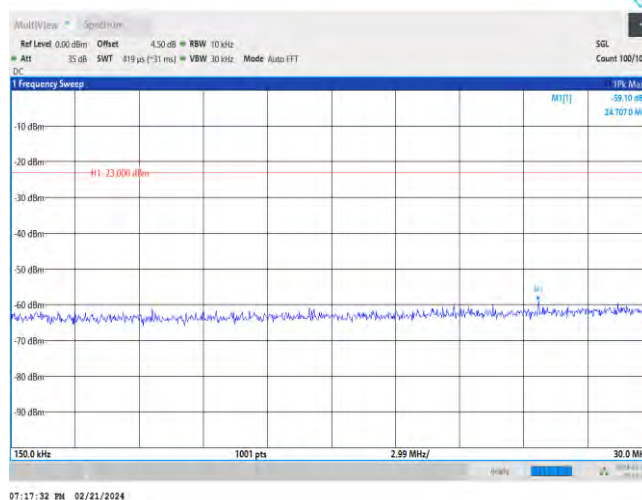
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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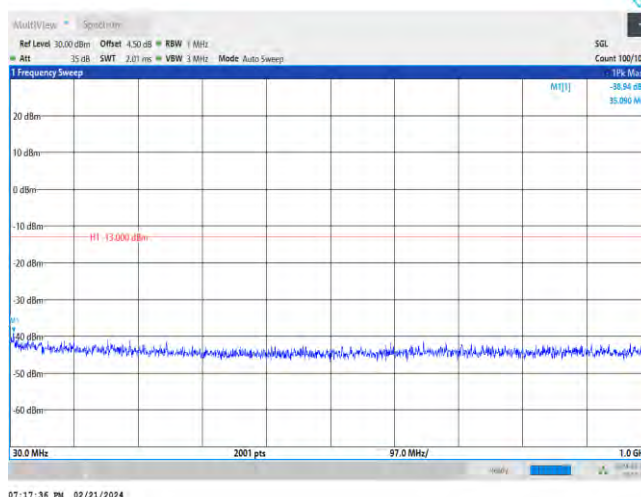
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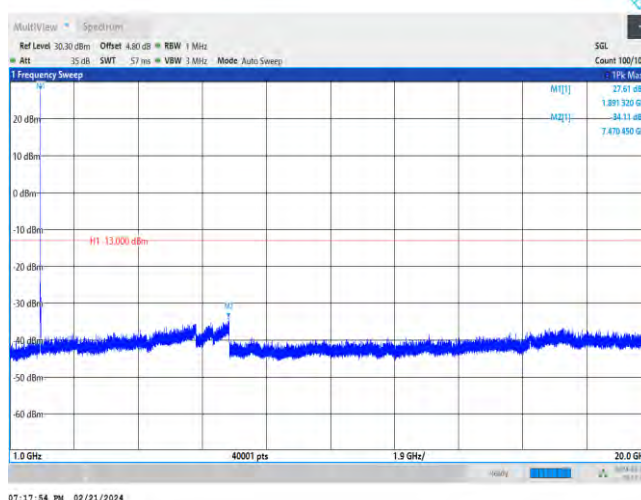
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band2
Test Channel = Low

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1348.5	35.09	-20.07	25.09	-55.15	-13.00	42.15	Horizontal
2	3702	49.30	-44.52	29.31	-61.17	-13.00	48.17	Horizontal
3	5553.5	48.57	-41.63	32.23	-56.09	-13.00	43.09	Horizontal
4	8442	43.80	-36.77	36.42	-51.81	-13.00	38.81	Horizontal
5	13554	43.51	-37.91	40.01	-49.65	-13.00	36.65	Horizontal
6	16592	42.14	-35.36	39.48	-49.00	-13.00	36.00	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1347.5	35.02	-20.08	25.08	-55.24	-13.00	42.24	Vertical
2	3702	54.90	-44.52	29.31	-55.57	-13.00	42.57	Vertical
3	5553.5	54.23	-41.63	32.23	-50.43	-13.00	37.43	Vertical
4	9906.5	42.76	-35.13	38.61	-49.02	-13.00	36.02	Vertical
5	13556.5	43.60	-37.91	40.01	-49.56	-13.00	36.56	Vertical
6	17997.5	41.18	-43.06	48.16	-48.98	-13.00	35.98	Vertical



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Test Band = LTE Band2
Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1366	35.29	-19.96	25.04	-54.89	-13.00	41.89	Horizontal
2	3742	51.92	-44.69	29.55	-58.48	-13.00	45.48	Horizontal
3	5613	48.79	-41.40	32.57	-55.30	-13.00	42.30	Horizontal
4	9882.5	42.83	-35.09	38.46	-49.06	-13.00	36.06	Horizontal
5	13550	43.54	-37.92	40.00	-49.64	-13.00	36.64	Horizontal
6	16356.5	42.54	-35.06	38.67	-49.11	-13.00	36.11	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1344	34.95	-20.12	25.04	-55.39	-13.00	42.39	Vertical
2	3742	59.51	-44.69	29.55	-50.89	-13.00	37.89	Vertical
3	5613.5	56.00	-41.40	32.57	-48.09	-13.00	35.09	Vertical
4	7484.5	45.58	-38.29	36.87	-51.10	-13.00	38.10	Vertical
5	13628.5	43.16	-37.89	40.13	-49.86	-13.00	36.86	Vertical
6	16520.5	42.41	-35.56	39.34	-49.07	-13.00	36.07	Vertical



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Test Band = LTE Band2

Test Channel = High

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1341.5	35.21	-20.15	25.02	-55.18	-13.00	42.18	Horizontal
2	3782	55.00	-44.85	29.73	-55.38	-13.00	42.38	Horizontal
3	5673.5	49.65	-41.22	32.50	-54.33	-13.00	41.33	Horizontal
4	9882	42.94	-35.10	38.46	-48.96	-13.00	35.96	Horizontal
5	13560	43.77	-37.90	40.02	-49.37	-13.00	36.37	Horizontal
6	16483	42.52	-35.48	39.22	-49.00	-13.00	36.00	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1305	35.25	-20.20	24.65	-55.56	-13.00	42.56	Vertical
2	3782	60.98	-44.85	29.73	-49.40	-13.00	36.40	Vertical
3	5673.5	56.97	-41.22	32.50	-47.01	-13.00	34.01	Vertical
4	7564.5	46.70	-38.63	36.52	-50.67	-13.00	37.67	Vertical
5	10959	43.37	-37.16	40.14	-48.91	-13.00	35.91	Vertical
6	16607.5	42.62	-35.78	39.49	-48.93	-13.00	35.93	Vertical



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Test Band = LTE 2A_30A

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4116	44.48	-45.76	29.68	-66.86	-40.00	26.86	Horizontal
2	5498	44.46	-45.24	32.30	-63.74	-40.00	23.74	Horizontal
3	7516.5	40.58	-43.11	36.42	-61.36	-40.00	21.36	Horizontal
4	10502	37.79	-38.79	38.55	-57.71	-40.00	17.71	Horizontal
5	12078	36.93	-37.40	39.12	-56.61	-40.00	16.61	Horizontal
6	14357.5	35.46	-35.38	41.09	-54.09	-40.00	14.09	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3737.5	44.60	-45.66	28.98	-67.34	-40.00	27.34	Vertical
2	4615.5	47.90	-45.66	30.78	-62.23	-40.00	22.23	Vertical
3	6804	43.44	-44.17	34.65	-61.34	-40.00	21.34	Vertical
4	10032.5	38.26	-39.20	38.50	-57.70	-40.00	17.70	Vertical
5	14988	33.96	-34.64	41.59	-54.35	-40.00	14.35	Vertical
6	17800.5	33.49	-34.63	45.62	-50.78	-40.00	10.78	Vertical



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Test Band = LTE 2A_30A
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4195	43.90	-45.77	29.87	-67.26	-40.00	27.26	Horizontal
2	5435.5	44.48	-45.28	32.18	-63.87	-40.00	23.87	Horizontal
3	7198.5	43.11	-43.43	35.56	-60.03	-40.00	20.03	Horizontal
4	9462.5	40.65	-40.08	37.43	-57.27	-40.00	17.27	Horizontal
5	12500.5	36.53	-36.95	39.25	-56.43	-40.00	16.43	Horizontal
6	16989	34.21	-33.32	42.07	-52.30	-40.00	12.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3952.5	44.62	-46.15	29.32	-67.47	-40.00	27.47	Vertical
2	4615.5	47.06	-45.66	30.78	-63.07	-40.00	23.07	Vertical
3	7414.5	42.66	-43.37	36.16	-59.81	-40.00	19.81	Vertical
4	9856	38.69	-39.40	38.21	-57.75	-40.00	17.75	Vertical
5	13596.5	35.49	-36.11	40.24	-55.65	-40.00	15.65	Vertical
6	15399.5	32.87	-33.49	40.76	-55.12	-40.00	15.12	Vertical



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Test Band = LTE 2A_30A
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4203	44.29	-45.76	29.89	-66.85	-40.00	26.85	Horizontal
2	5373.5	45.01	-45.24	32.07	-63.42	-40.00	23.42	Horizontal
3	6812	43.44	-44.16	34.66	-61.32	-40.00	21.32	Horizontal
4	8424	41.93	-41.49	36.85	-57.98	-40.00	17.98	Horizontal
5	10903	37.17	-37.81	38.59	-57.31	-40.00	17.31	Horizontal
6	13830	35.92	-36.12	40.56	-54.89	-40.00	14.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4114	41.53	-45.76	29.67	-69.82	-40.00	29.82	Vertical
2	5285	42.12	-45.12	31.91	-66.35	-40.00	26.35	Vertical
3	7161.5	40.57	-43.72	35.45	-62.96	-40.00	22.96	Vertical
4	8383	39.46	-41.55	36.87	-60.48	-40.00	20.48	Vertical
5	10677	35.69	-38.02	38.57	-59.02	-40.00	19.02	Vertical
6	12770	34.76	-36.79	39.33	-57.95	-40.00	17.95	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	1.70	0.000904	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-0.30	-0.000160	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-1.40	-0.000745	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-0.60	-0.000319	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	2.50	0.001330	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	0.60	0.000319	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	0.90	0.000479	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-0.80	-0.000426	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	0.20	0.000106	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	2.50	0.001330	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	1.60	0.000851	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-0.90	-0.000479	PASS

---End of Attachment---



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