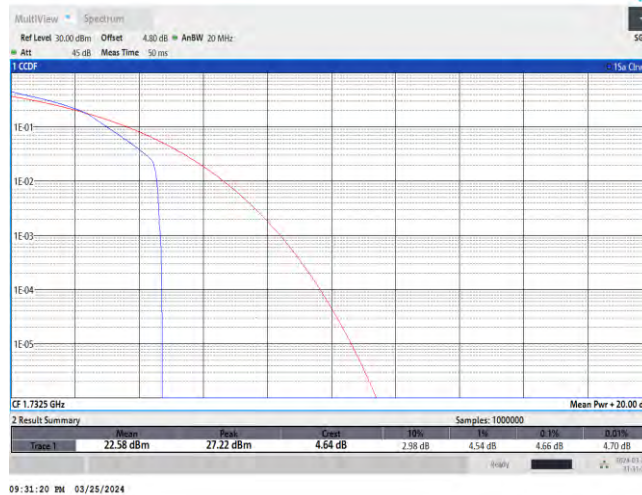
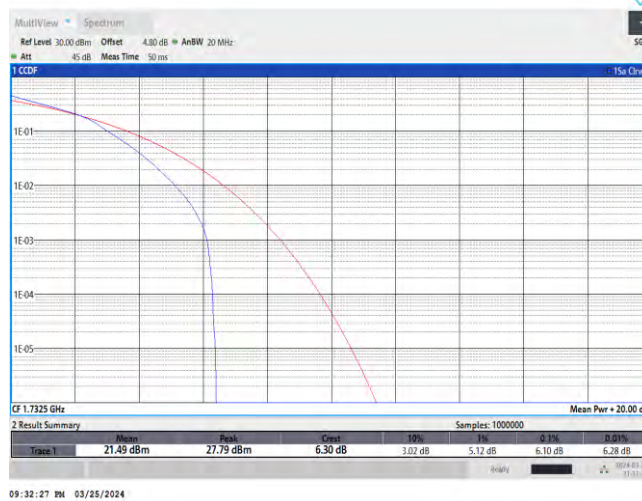


Band4-15MHz-16QAM-20175-1RB#0



Band4-15MHz-16QAM-20175-75RB#0

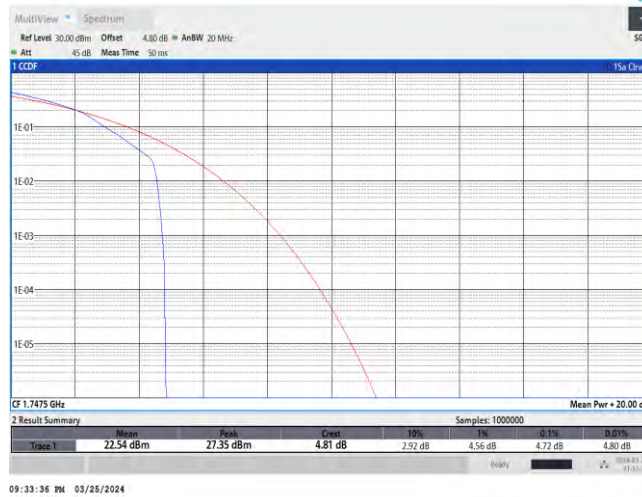


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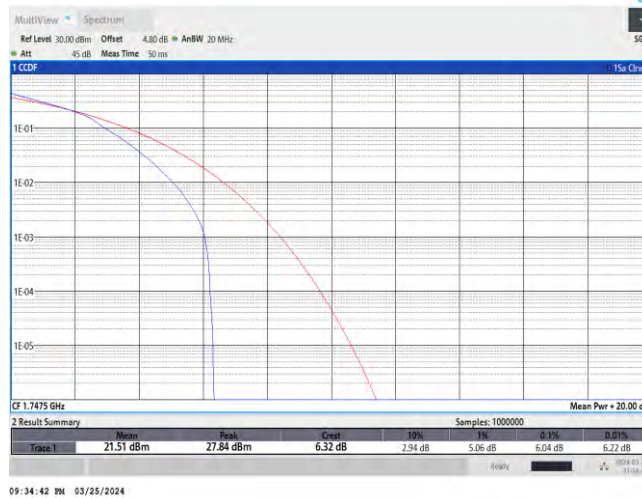
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Band4-15MHz-16QAM-20325-1RB#0



Band4-15MHz-16QAM-20325-75RB#0

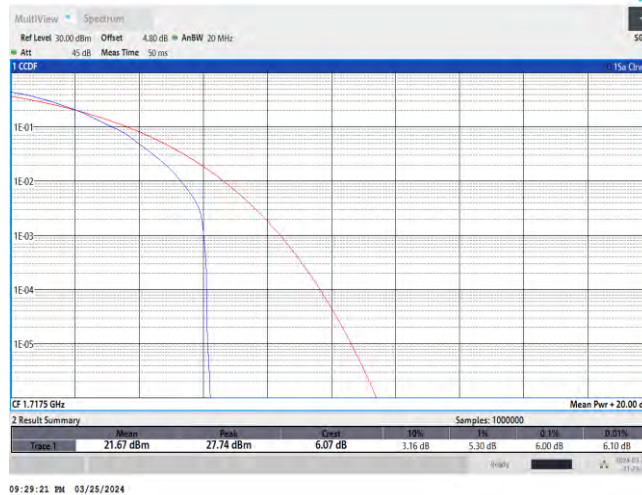


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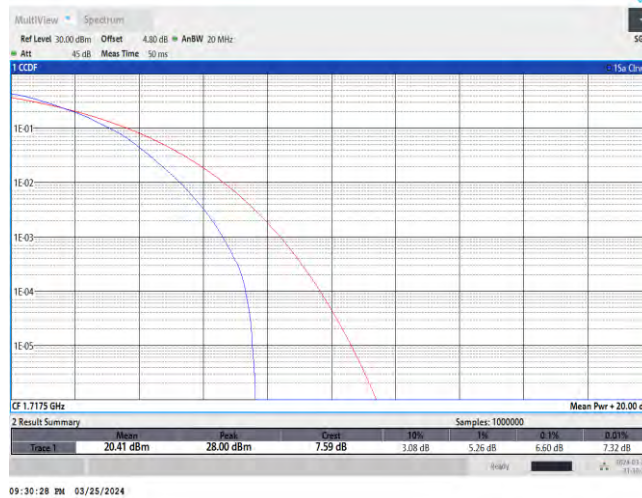
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Band4-15MHz-64QAM-20025-1RB#0



Band4-15MHz-64QAM-20025-75RB#0



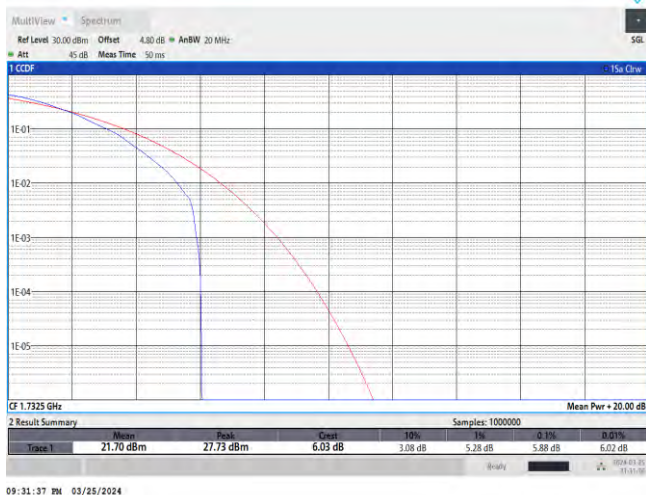
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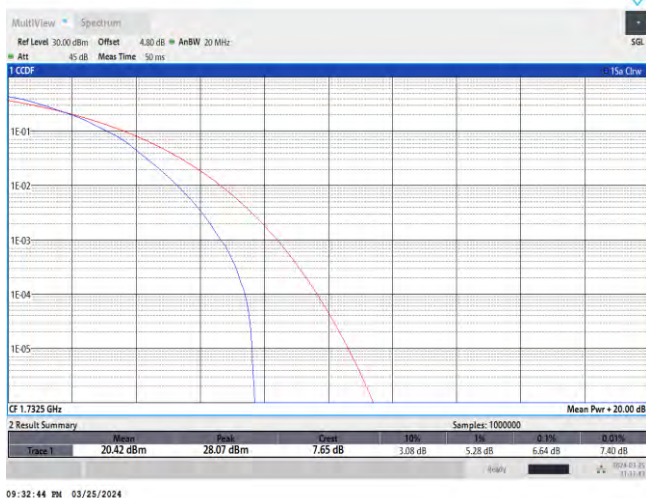
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Band4-15MHz-64QAM-20175-1RB#0



Band4-15MHz-64QAM-20175-75RB#0

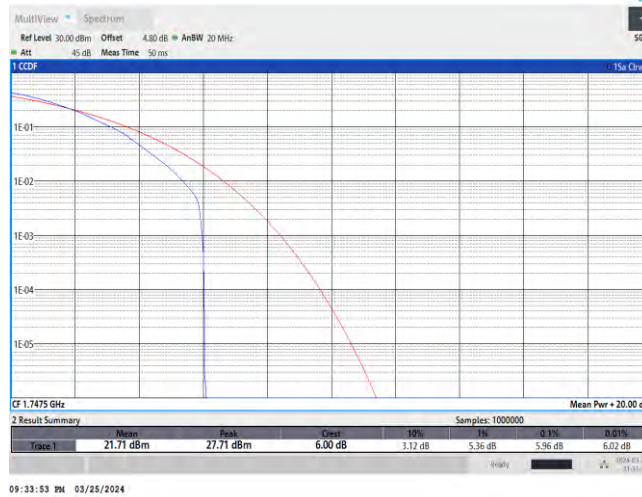


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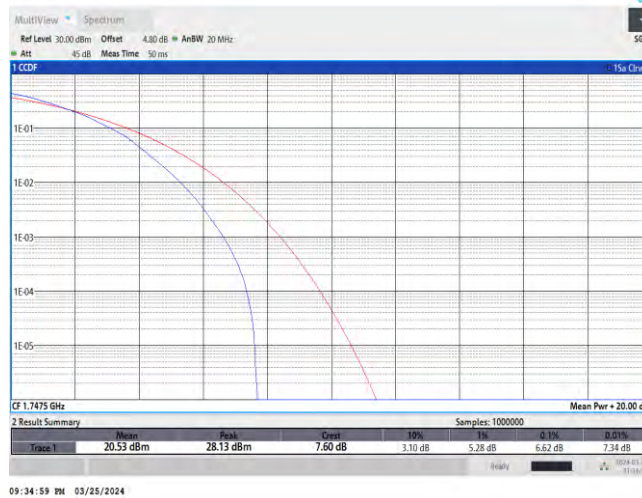
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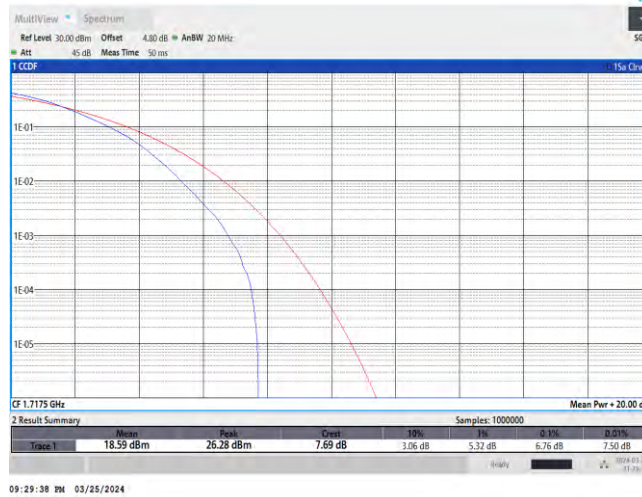


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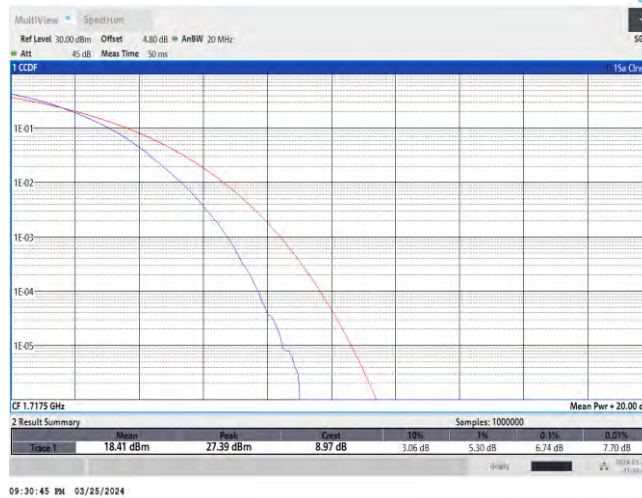
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Band4-15MHz-256QAM-20025-1RB#0



Band4-15MHz-256QAM-20025-75RB#0

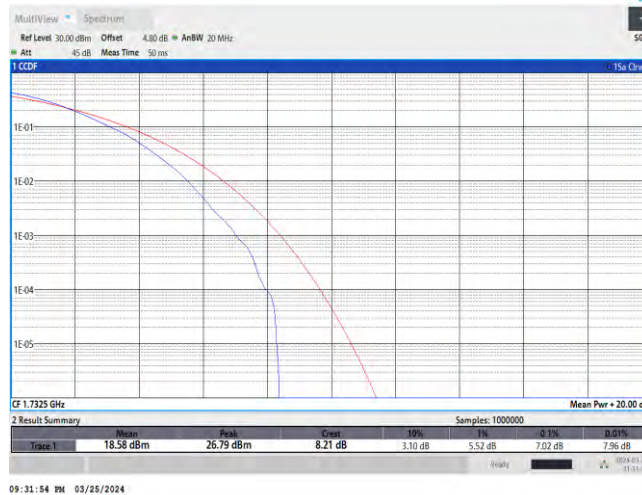


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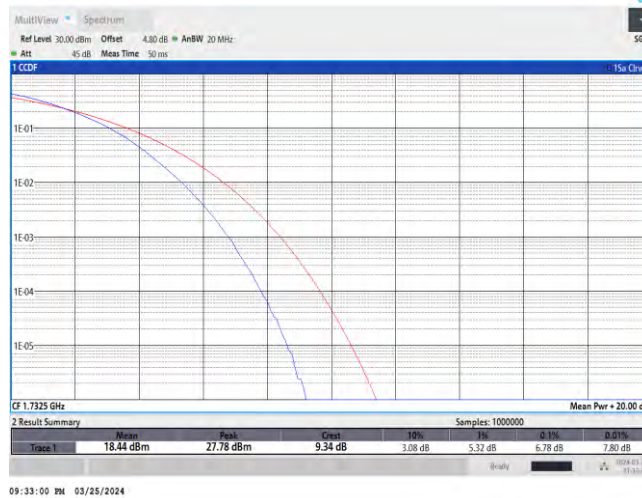
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Band4-15MHz-256QAM-20175-1RB#0



Band4-15MHz-256QAM-20175-75RB#0

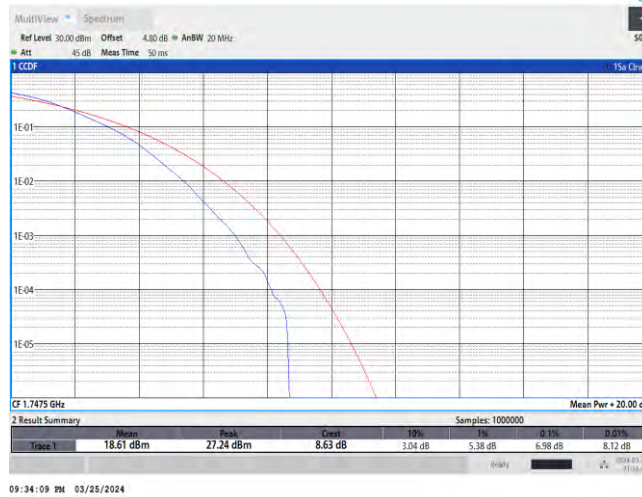


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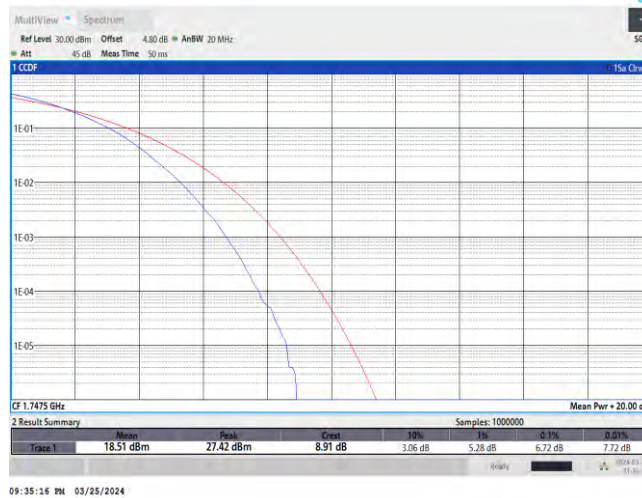
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Band4-15MHz-256QAM-20325-1RB#0



Band4-15MHz-256QAM-20325-75RB#0

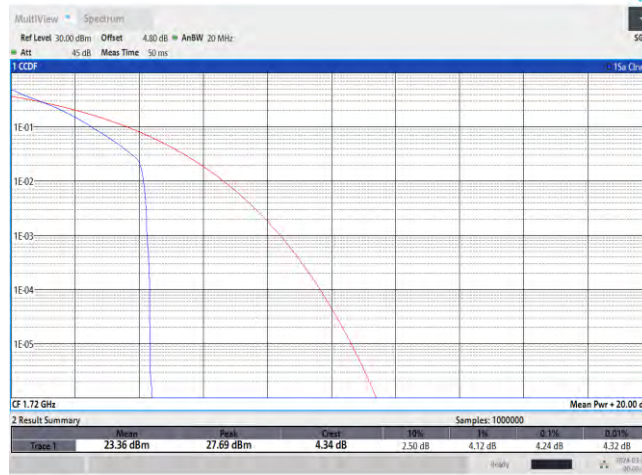


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Band4-20MHz-QPSK-20050-1RB#0



12:09:27 AM 03/27/2024

Band4-20MHz-QPSK-20050-100RB#0



12:09:44 AM 03/27/2024

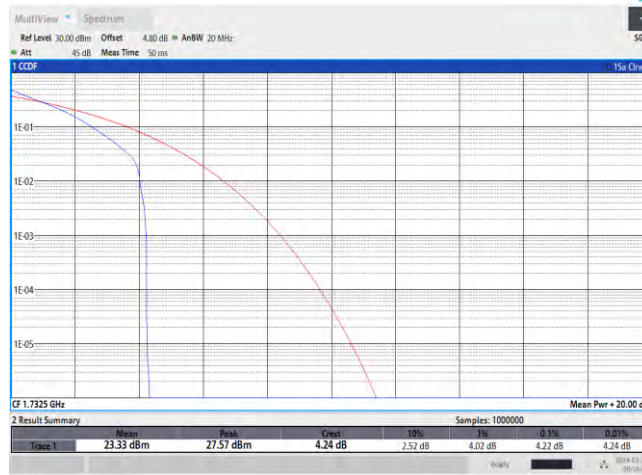


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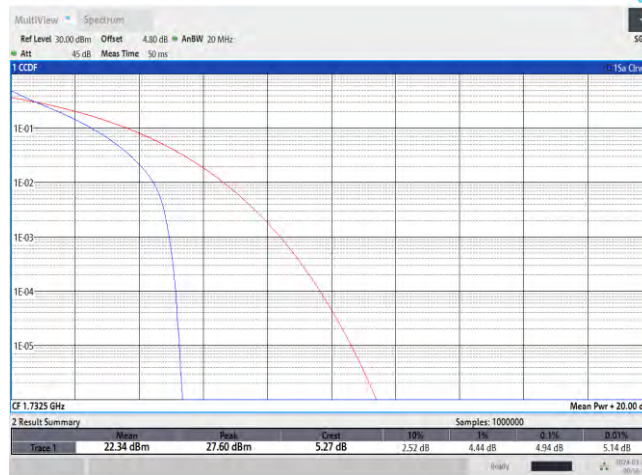
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Band4-20MHz-QPSK-20175-1RB#0



12:10:01 AM 03/27/2024

Band4-20MHz-QPSK-20175-100RB#0



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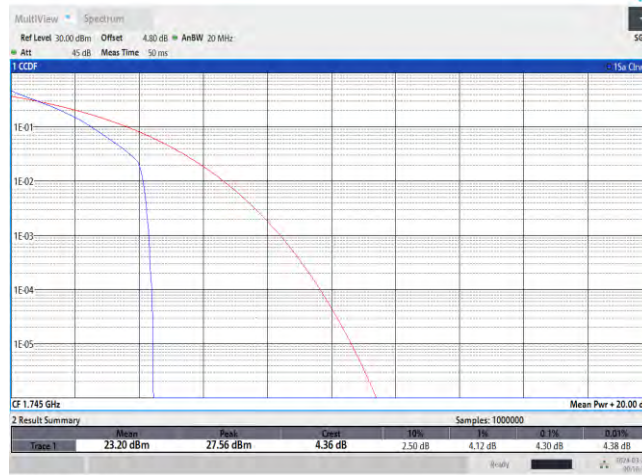


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Band4-20MHz-QPSK-20300-1RB#0



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Band4-20MHz-QPSK-20300-100RB#0



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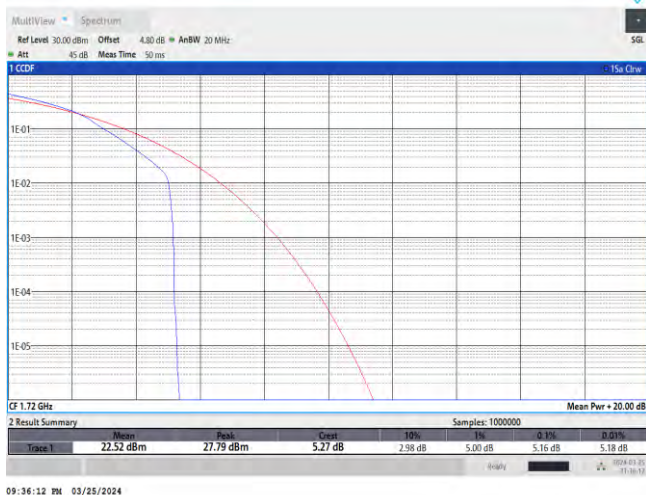


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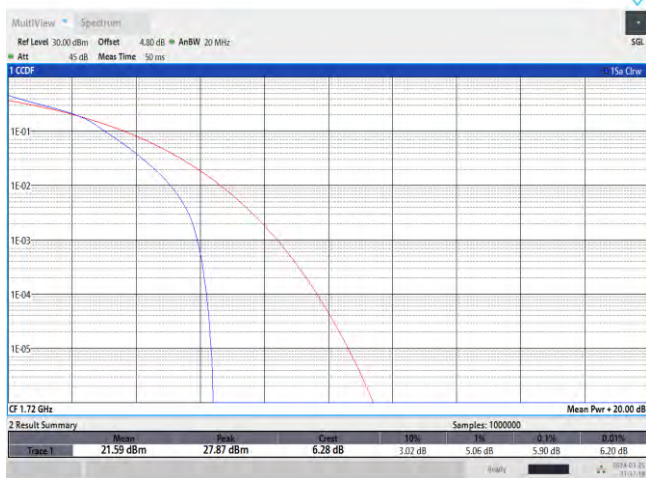
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Band4-20MHz-16QAM-20050-1RB#0



09:36:12 PM 03/25/2024

Band4-20MHz-16QAM-20050-100RB#0



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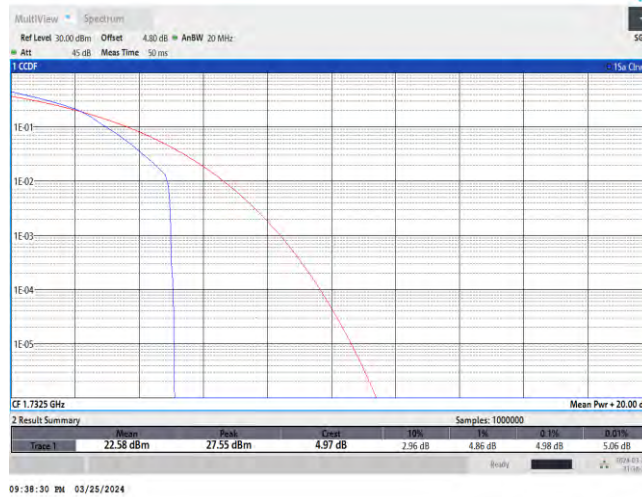


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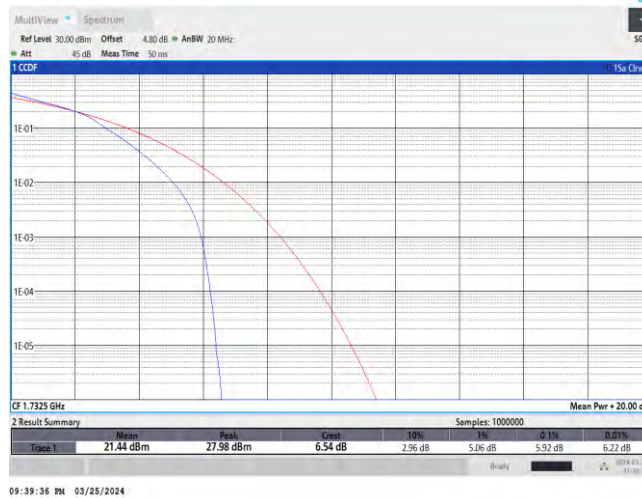
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Band4-20MHz-16QAM-20175-1RB#0



Band4-20MHz-16QAM-20175-100RB#0

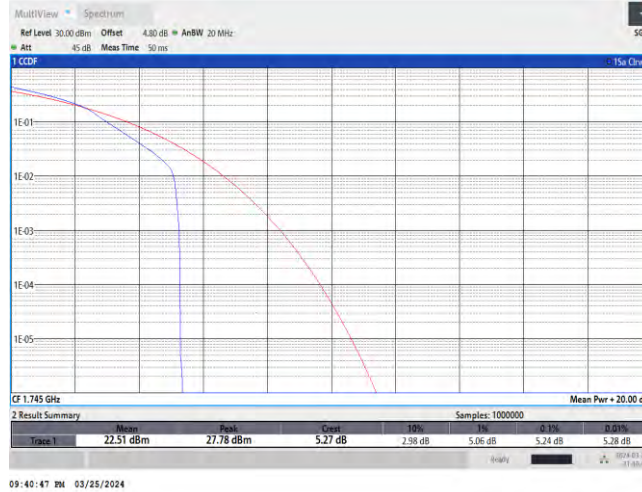


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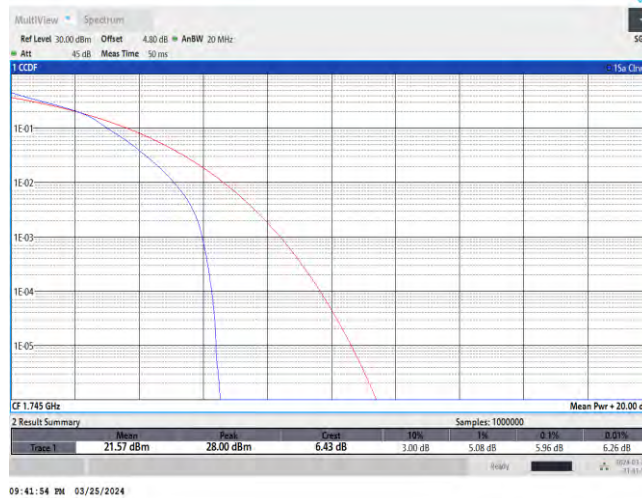
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Band4-20MHz-16QAM-20300-1RB#0



Band4-20MHz-16QAM-20300-100RB#0

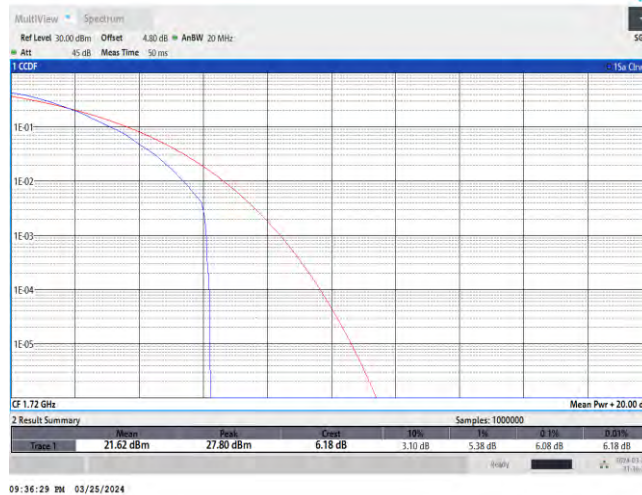


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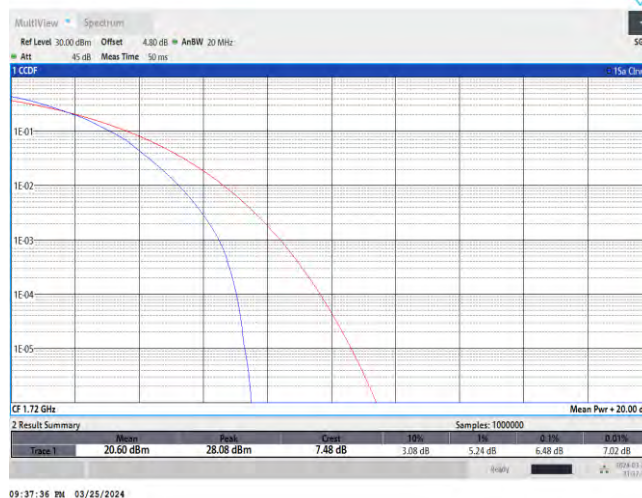
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Band4-20MHz-64QAM-20050-1RB#0



Band4-20MHz-64QAM-20050-100RB#0

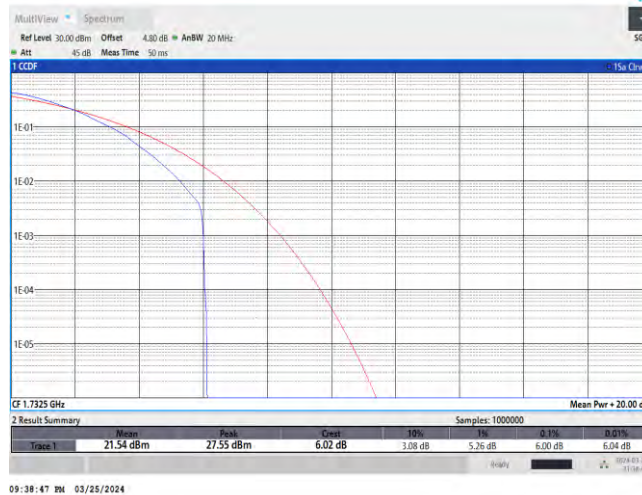


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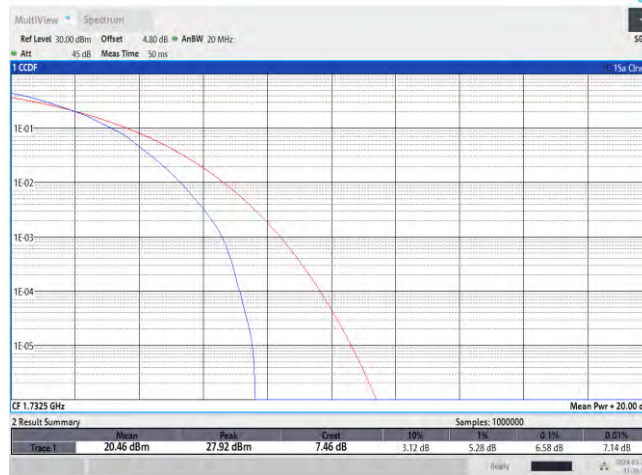
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Band4-20MHz-64QAM-20175-1RB#0



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Band4-20MHz-64QAM-20175-100RB#0



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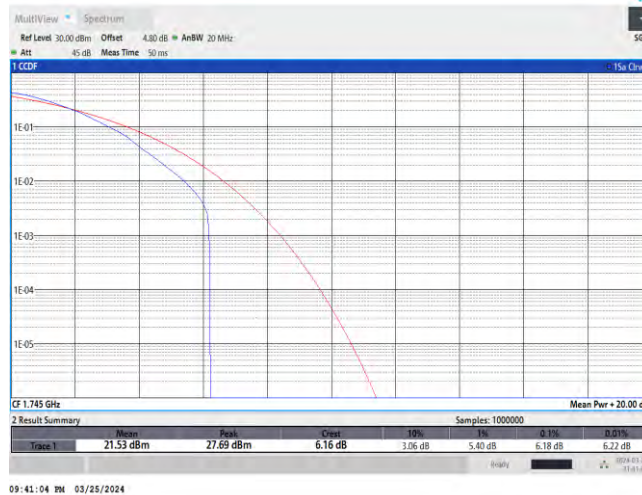


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Band4-20MHz-64QAM-20300-1RB#0



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Band4-20MHz-64QAM-20300-100RB#0



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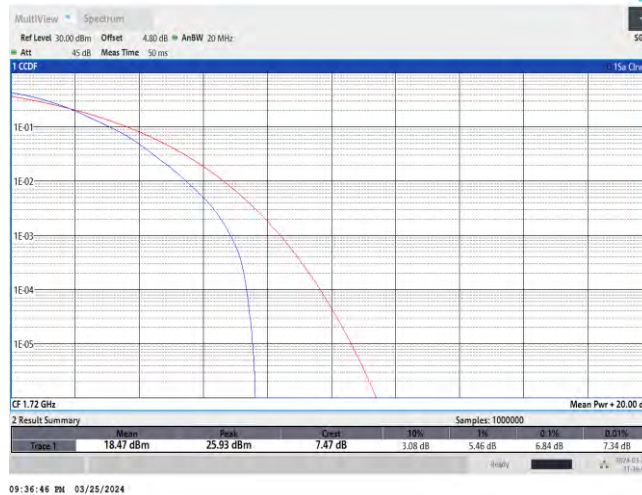


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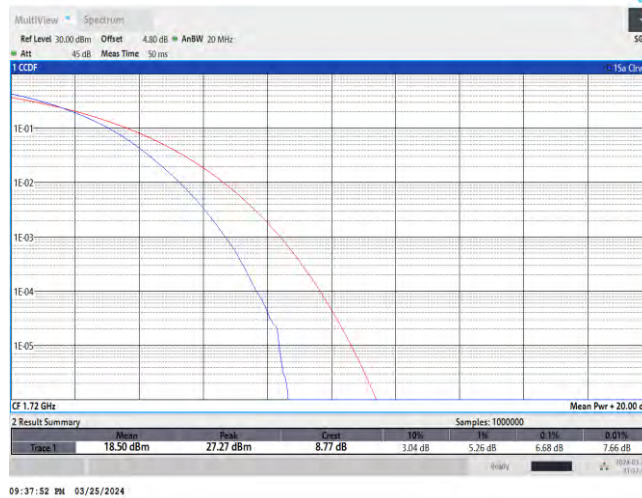
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Band4-20MHz-256QAM-20050-1RB#0



Band4-20MHz-256QAM-20050-100RB#0

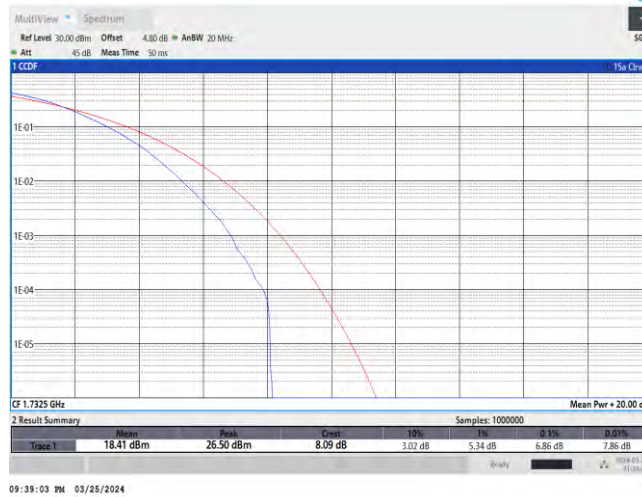


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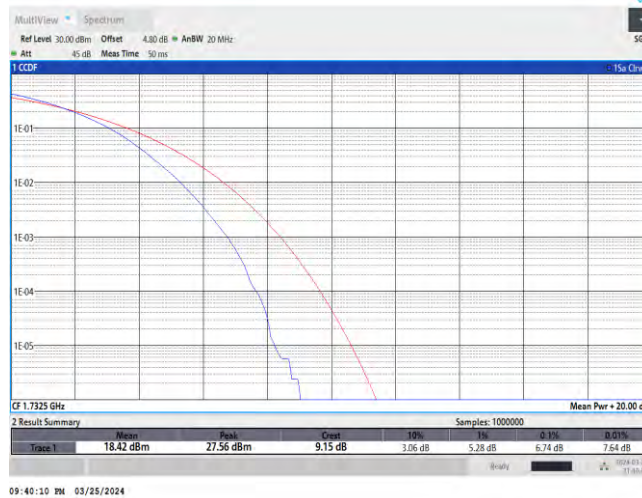
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Band4-20MHz-256QAM-20175-1RB#0



Band4-20MHz-256QAM-20175-100RB#0

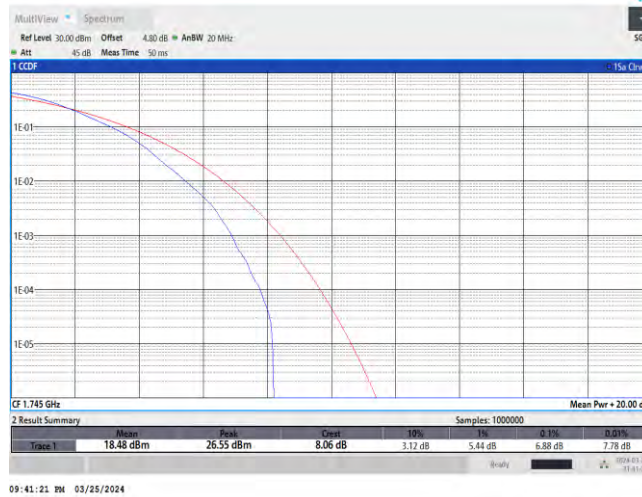


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Band4-20MHz-256QAM-20300-1RB#0



Band4-20MHz-256QAM-20300-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	1.105	1.39	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.106	1.43	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.109	1.39	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.107	1.39	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.702	3.05	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.701	3.03	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.703	3.06	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.7	3.06	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.477	5.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.48	5.05	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.474	4.99	PASS
Band4	5MHz	256QAM	20175	25RB#0	4.478	4.98	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.945	9.80	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.949	9.88	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.951	9.90	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.94	9.88	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.498	15.06	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.499	15.12	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.503	15.03	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.488	15.12	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.941	19.88	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.943	19.84	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.951	19.64	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.934	19.84	PASS



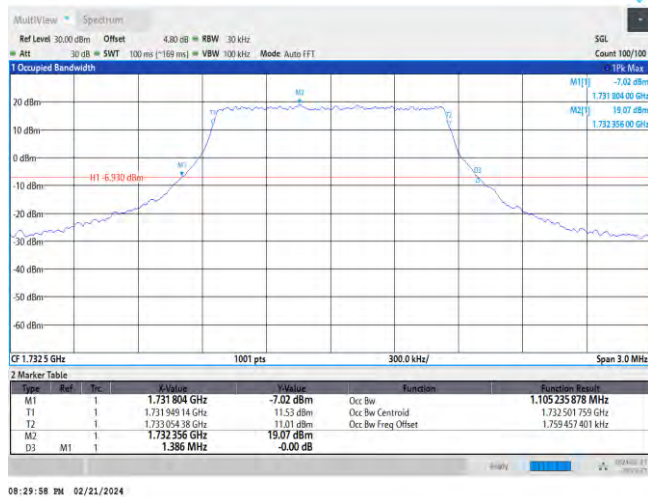
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Test Graphs

Band4-1.4MHz-QPSK-20175-6RB#0



Band4-1.4MHz-16QAM-20175-6RB#0



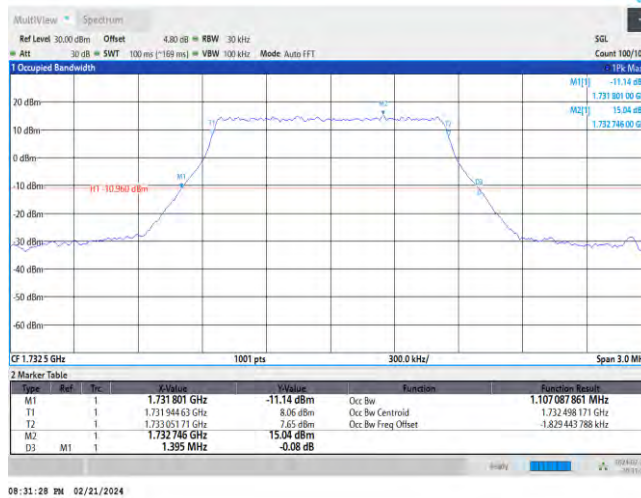
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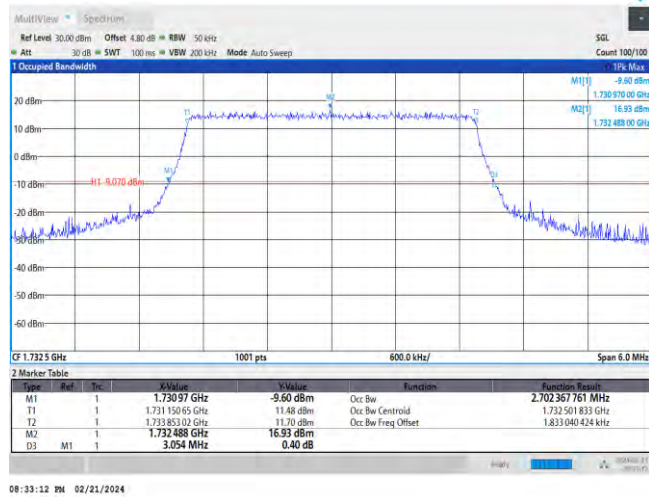


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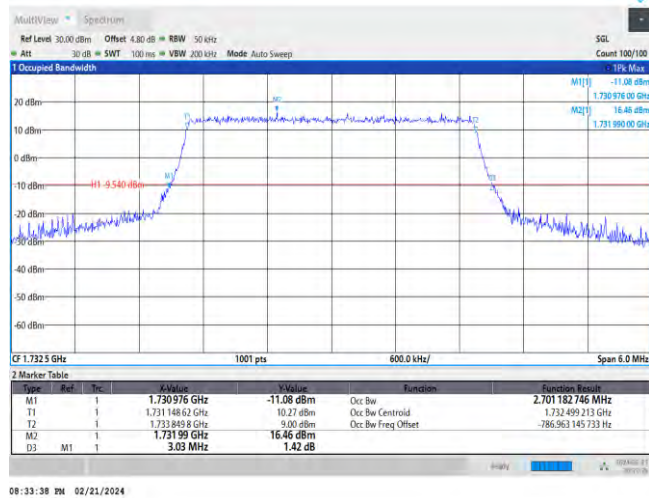
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Band4-3MHz-16QAM-20175-15RB#0

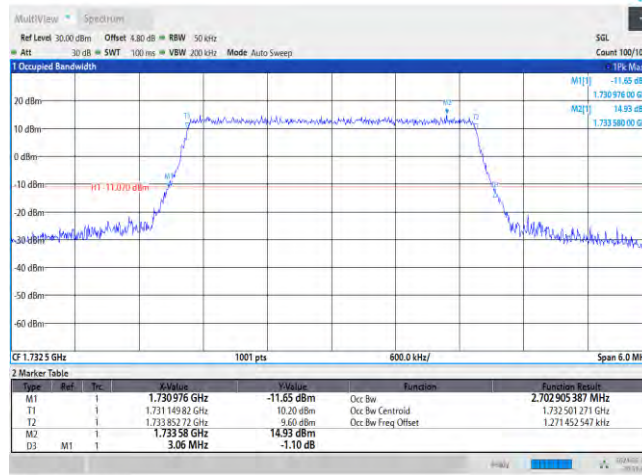


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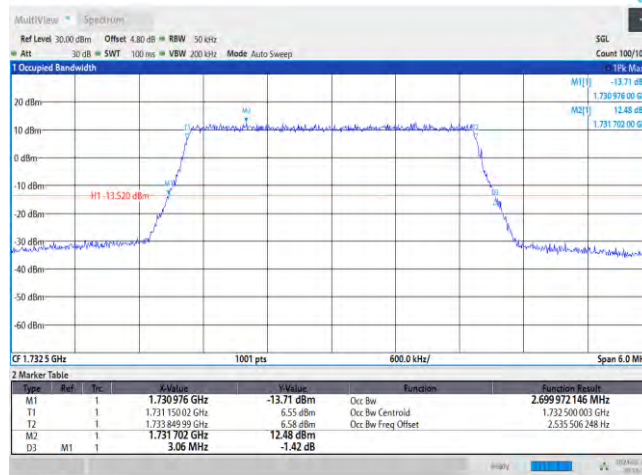
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Band4-3MHz-64QAM-20175-15RB#0



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Band4-3MHz-256QAM-20175-15RB#0



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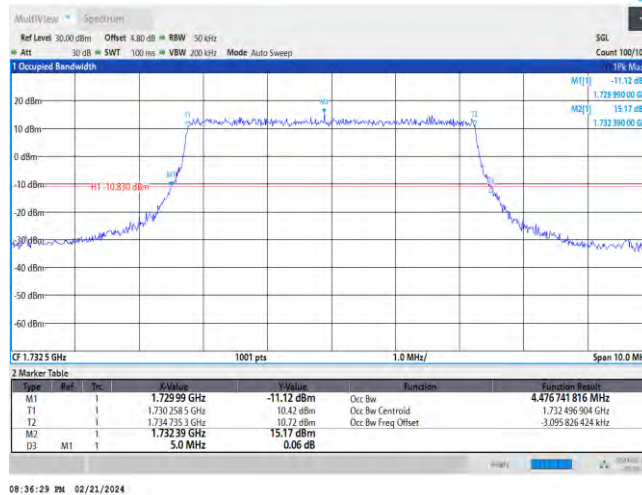


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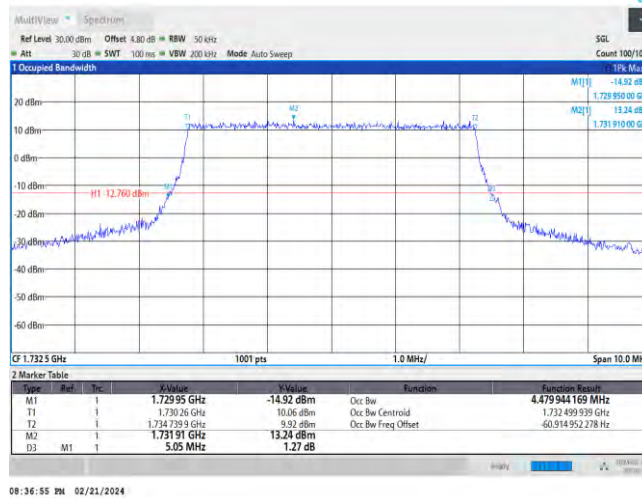
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Band4-5MHz-QPSK-20175-25RB#0



Band4-5MHz-16QAM-20175-25RB#0

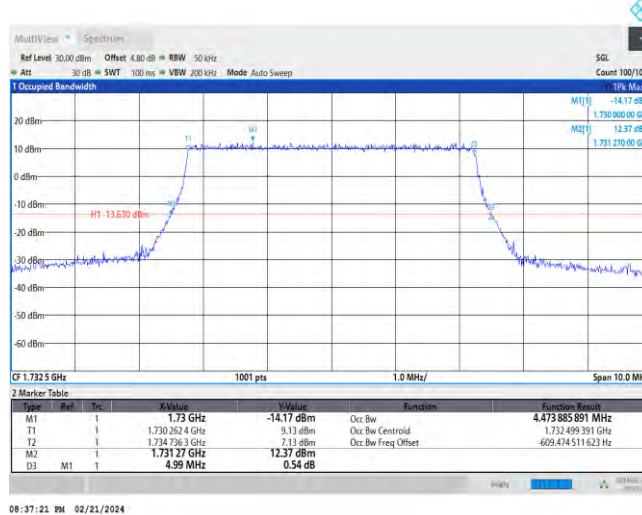


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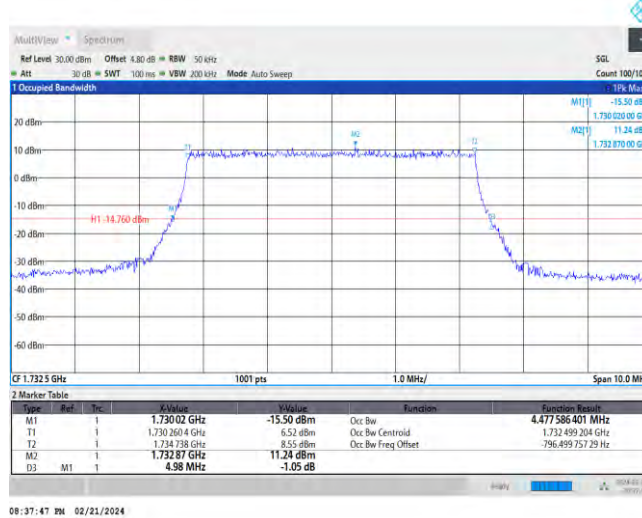
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Band4-5MHz-64QAM-20175-25RB#0



Band4-5MHz-256QAM-20175-25RB#0



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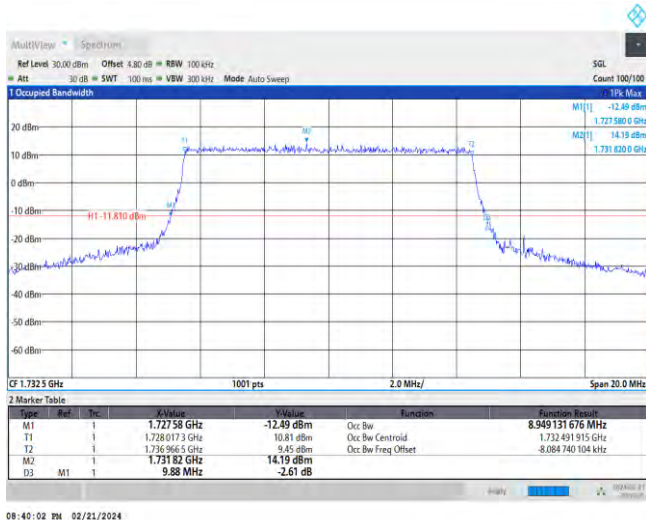
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Band4-10MHz-QPSK-20175-50RB#0



Band4-10MHz-16QAM-20175-50RB#0

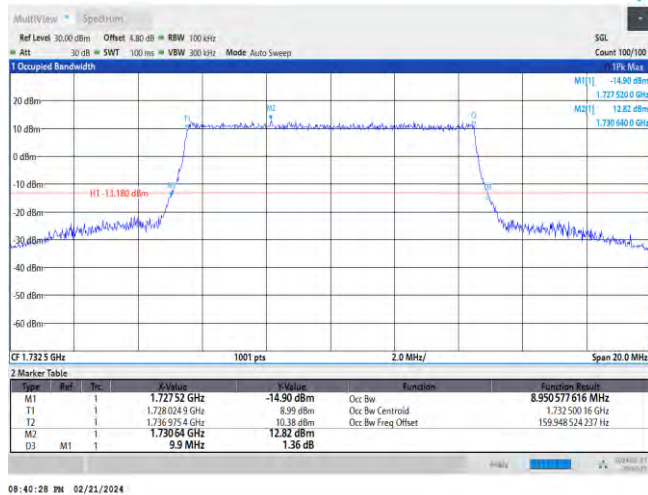


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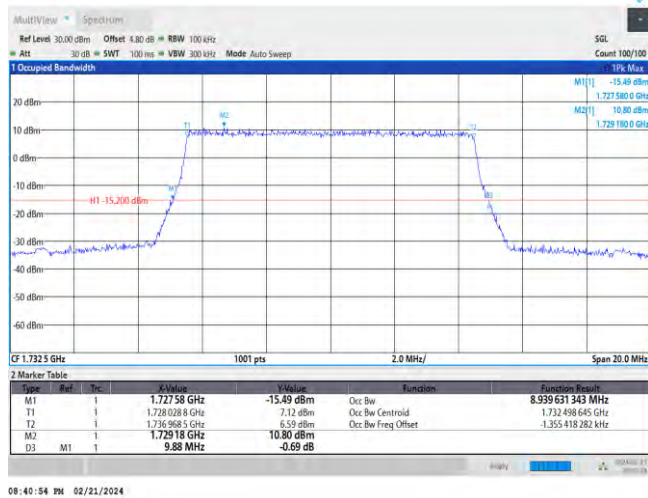
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Band4-10MHz-64QAM-20175-50RB#0



Band4-10MHz-256QAM-20175-50RB#0

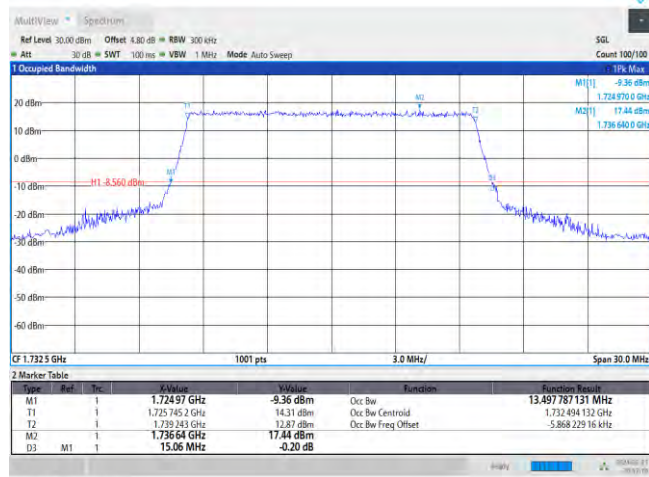


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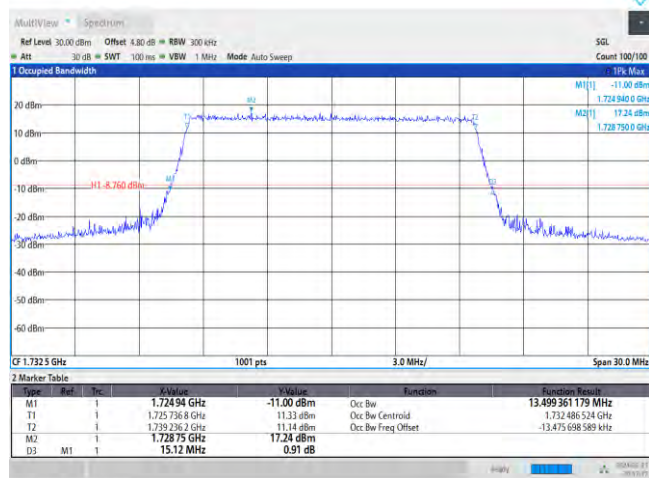
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Band4-15MHz-QPSK-20175-75RB#0



Band4-15MHz-16QAM-20175-75RB#0

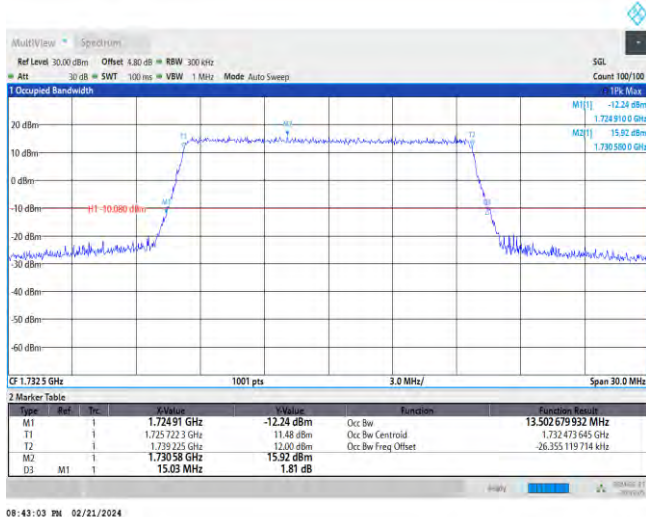


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Band4-15MHz-64QAM-20175-75RB#0



Band4-15MHz-256QAM-20175-75RB#0

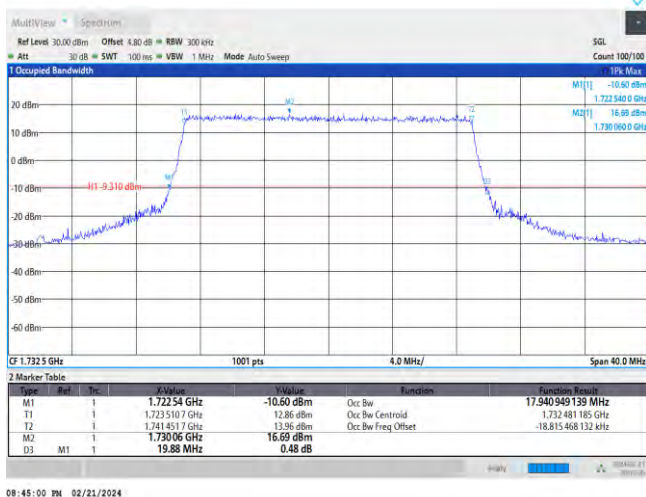


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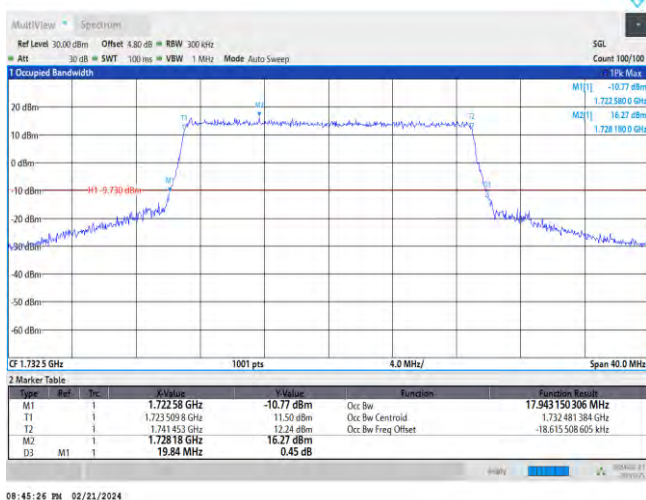
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Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-16QAM-20175-100RB#0

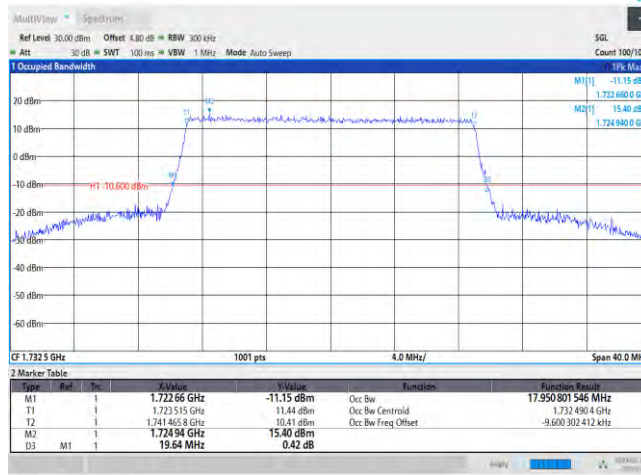


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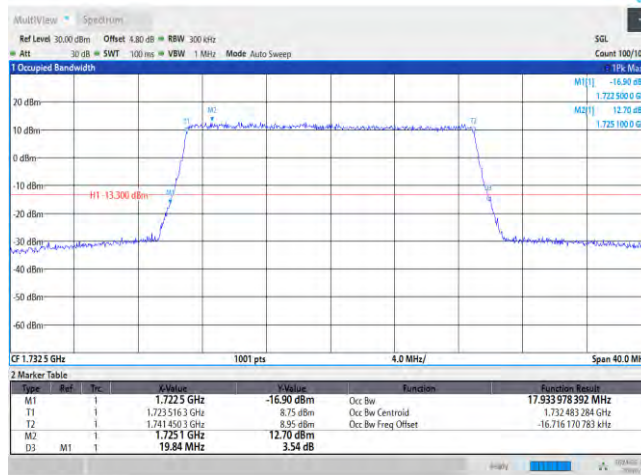
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Band4-20MHz-64QAM-20175-100RB#0



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Band4-20MHz-256QAM-20175-100RB#0



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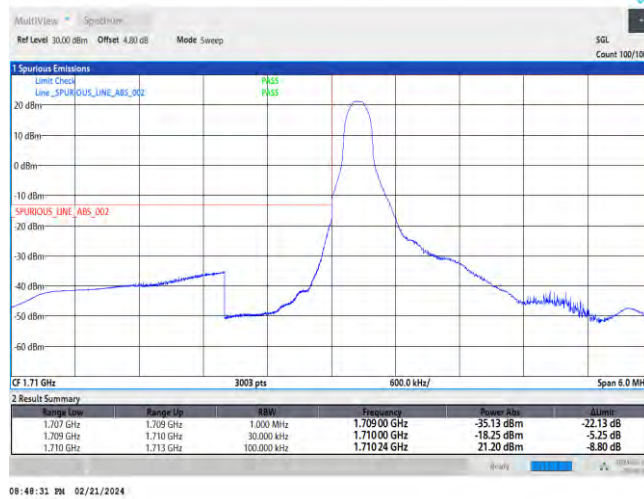
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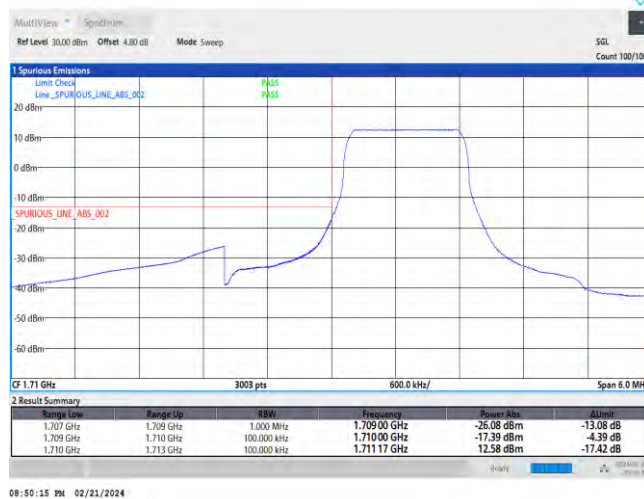
Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0

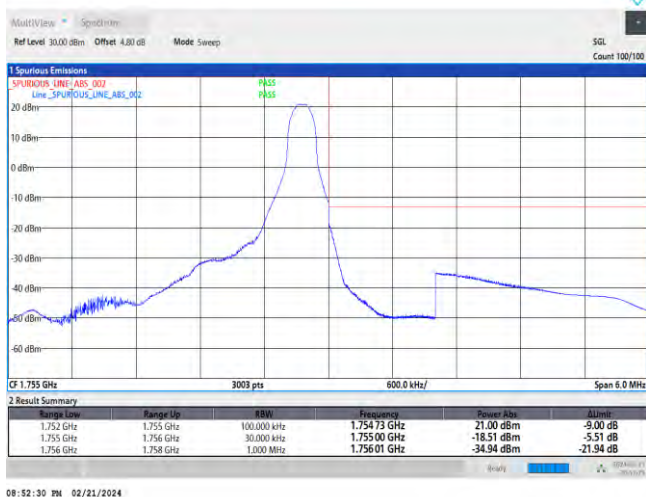


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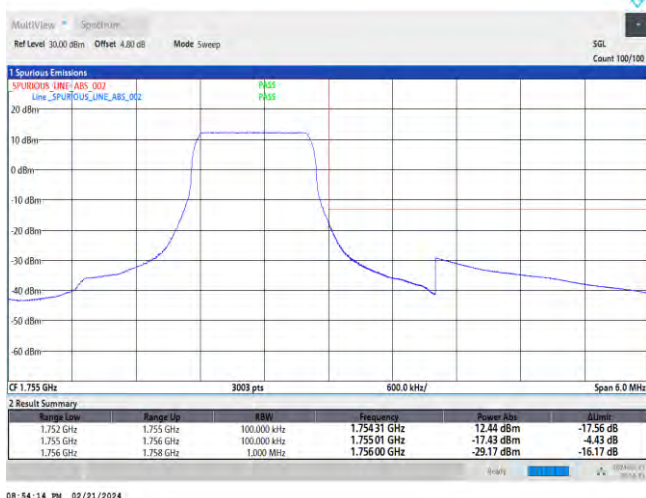
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Band4-1.4MHz-QPSK-20393-1RB#5



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Band4-1.4MHz-QPSK-20393-6RB#0



08:54:14 PM 02/21/2024

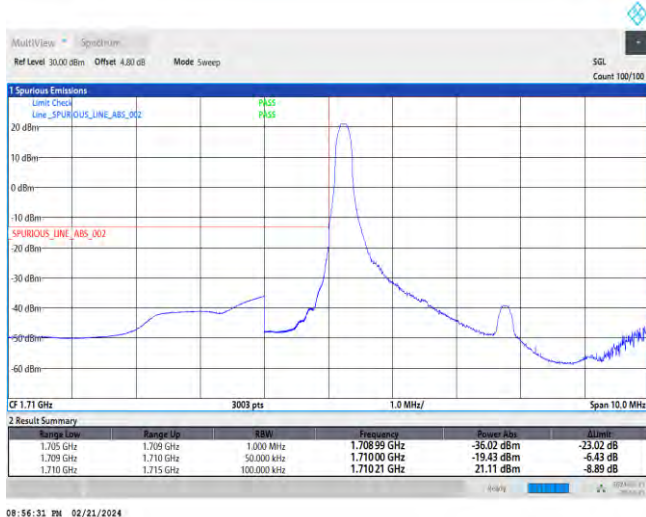


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Band4-3MHz-QPSK-19965-15RB#0

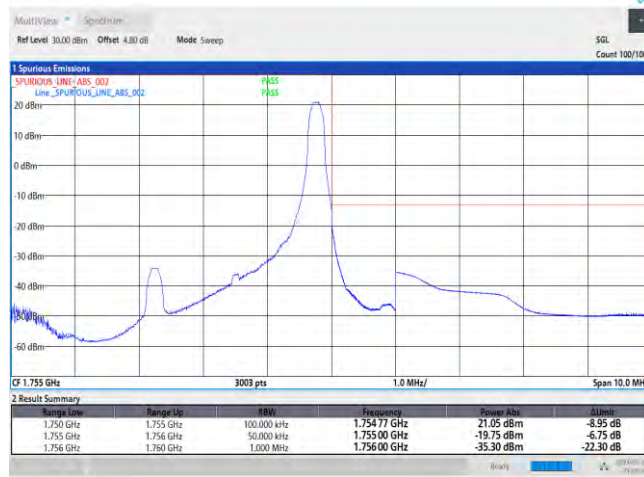


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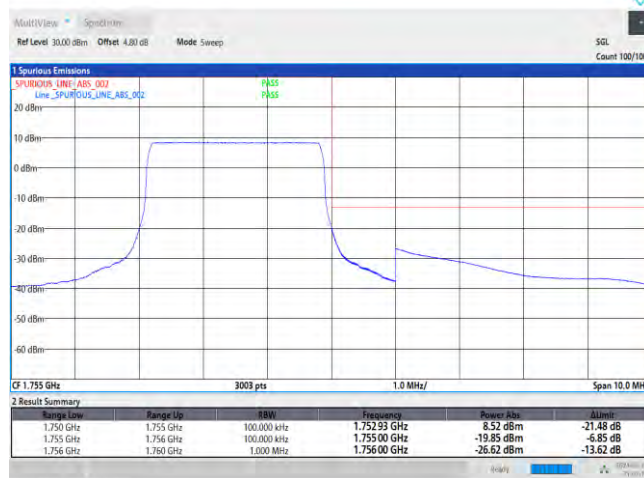
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Band4-3MHz-QPSK-20385-1RB#14



09:00:34 PM 02/21/2024

Band4-3MHz-QPSK-20385-15RB#0



09:02:17 PM 02/21/2024

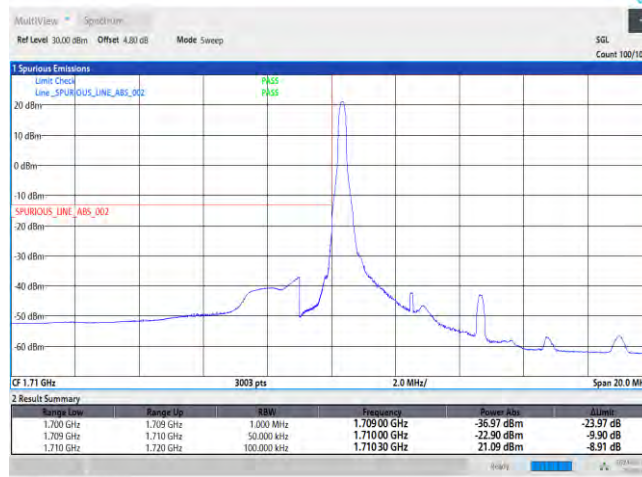


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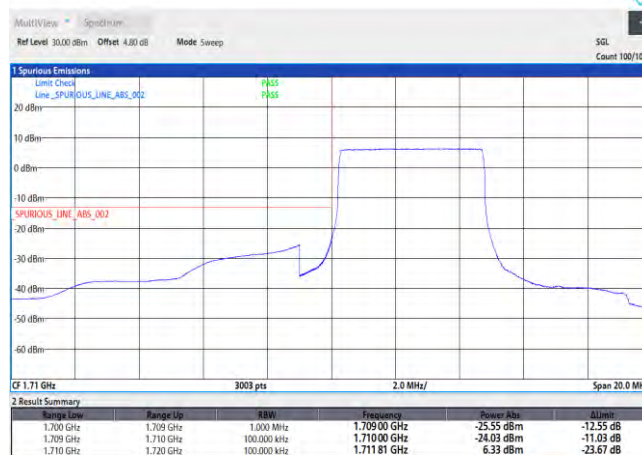
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Band4-5MHz-QPSK-19975-1RB#0



09:04:32 PM 02/21/2024

Band4-5MHz-QPSK-19975-25RB#0



09:06:16 PM 02/21/2024

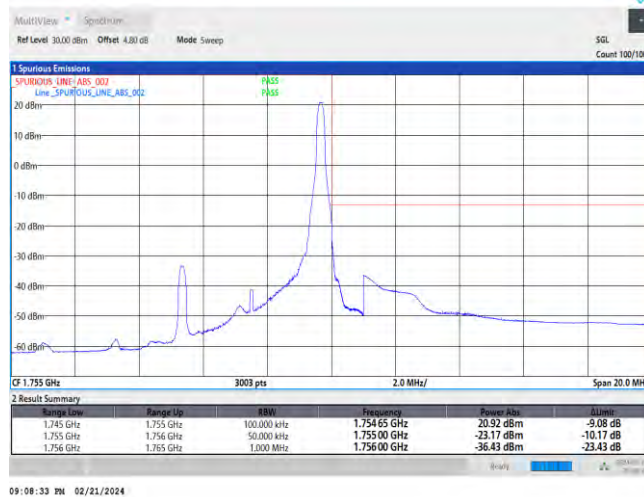


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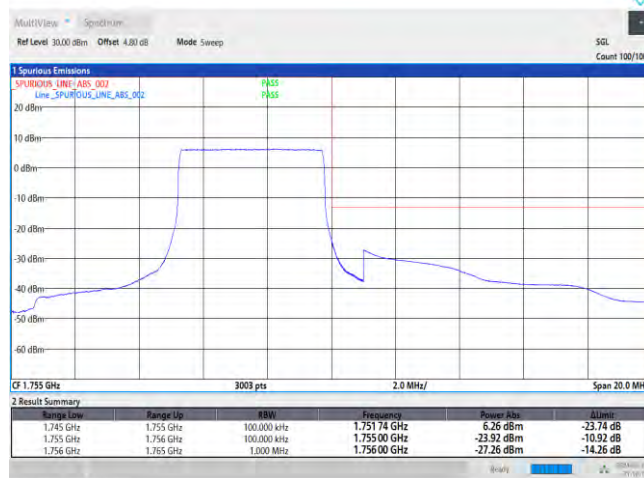
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Band4-5MHz-QPSK-20375-1RB#24



09:08:33 PM 02/21/2024

Band4-5MHz-QPSK-20375-25RB#0



09:10:17 PM 02/21/2024

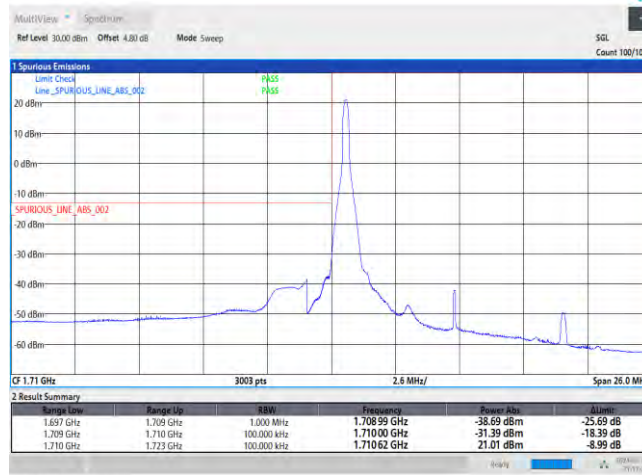


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Band4-10MHz-QPSK-20000-1RB#0



09:12:30 PM 02/21/2024

Band4-10MHz-QPSK-20000-50RB#0



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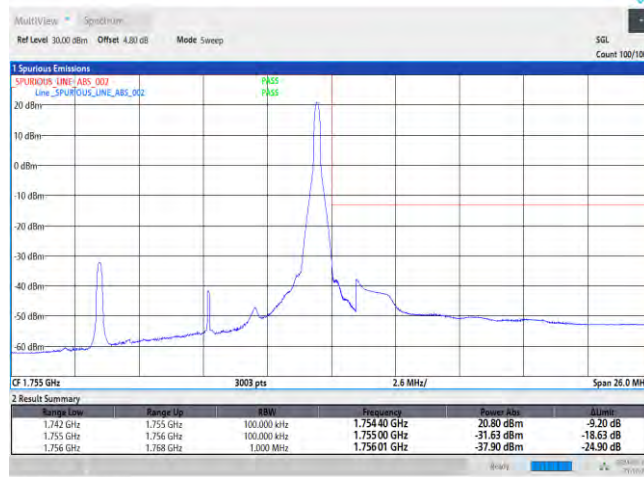


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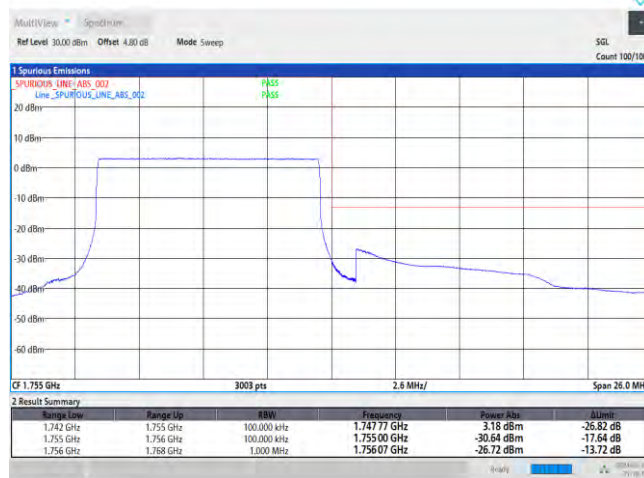
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Band4-10MHz-QPSK-20350-1RB#49



09:16:28 PM 02/21/2024

Band4-10MHz-QPSK-20350-50RB#0



09:18:12 PM 02/21/2024

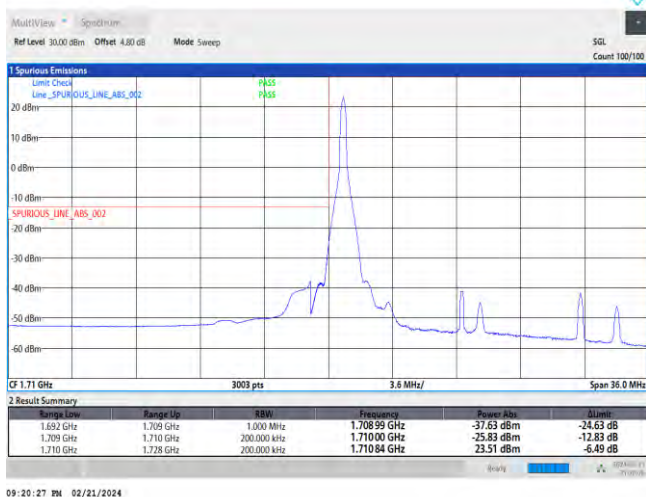


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Band4-15MHz-QPSK-20025-1RB#0



09:20:27 PM 02/21/2024

Band4-15MHz-QPSK-20025-75RB#0



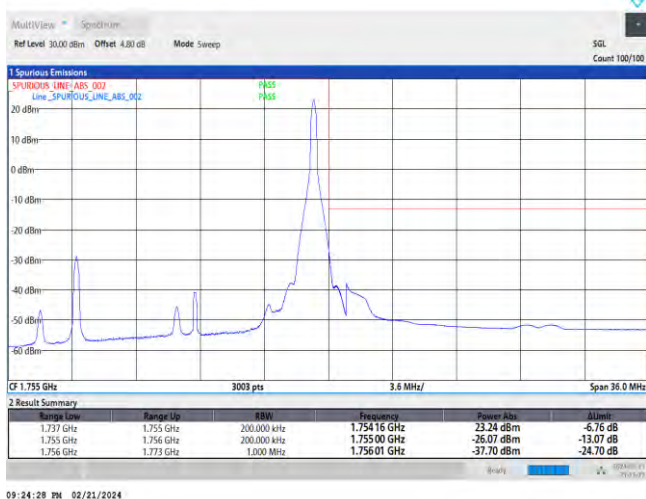
09:22:11 PM 02/21/2024



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Band4-15MHz-QPSK-20325-1RB#74



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Band4-15MHz-QPSK-20325-75RB#0



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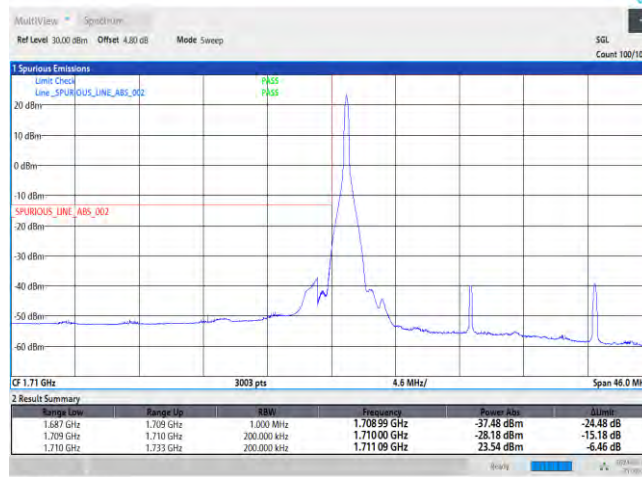


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Band4-20MHz-QPSK-20050-1RB#0



09:28:26 PM 02/21/2024

Band4-20MHz-QPSK-20050-100RB#0



09:30:10 PM 02/21/2024



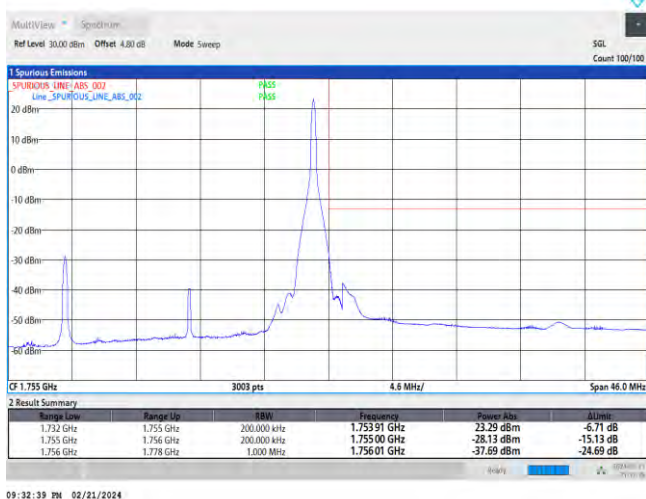
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Band4-20MHz-QPSK-20300-1RB#99



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Band4-20MHz-QPSK-20300-100RB#0



09:34:23 PM 02/21/2024



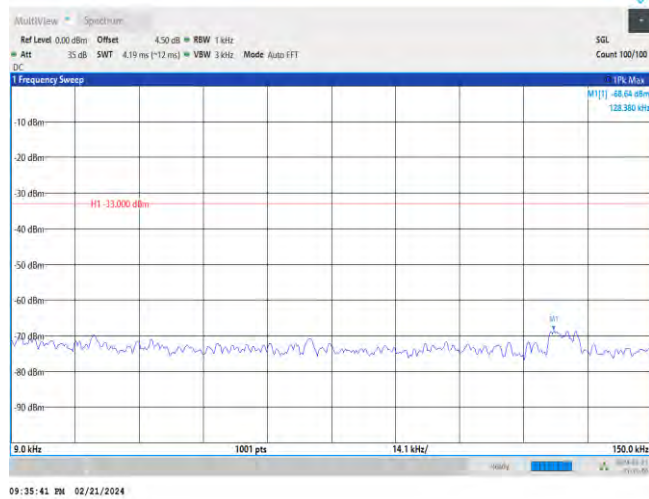
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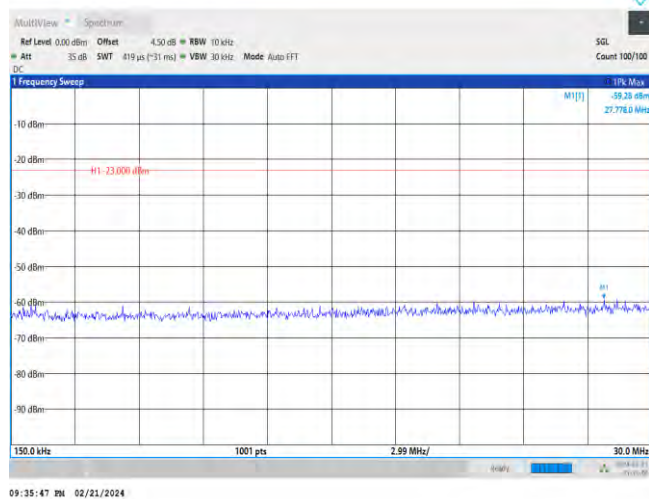
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

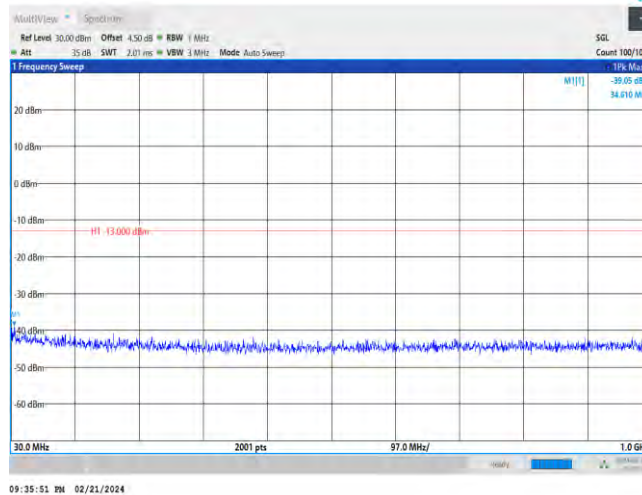


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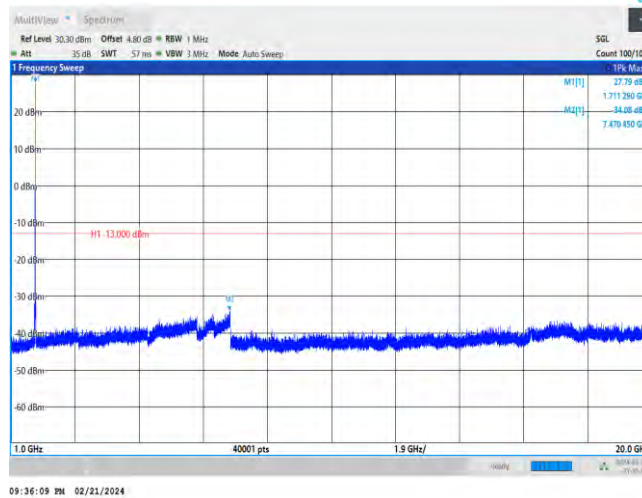
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz

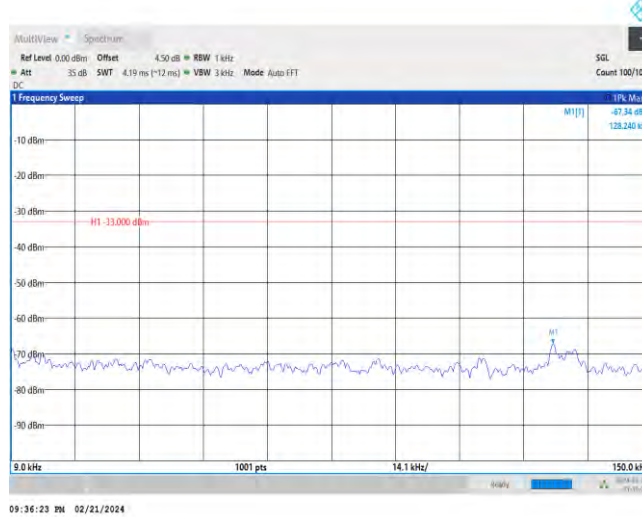


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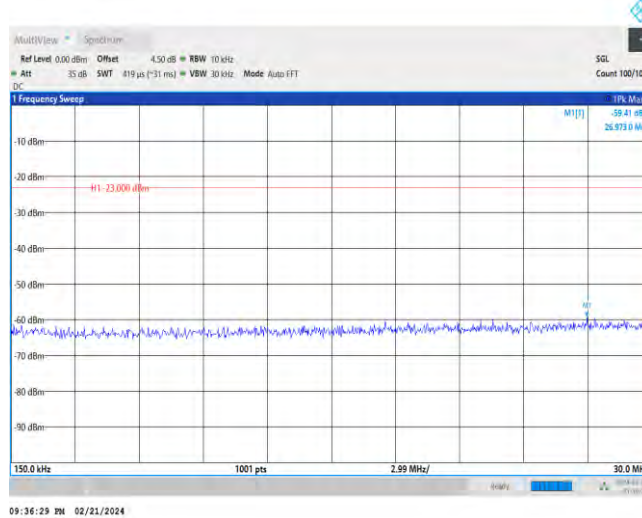
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Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz

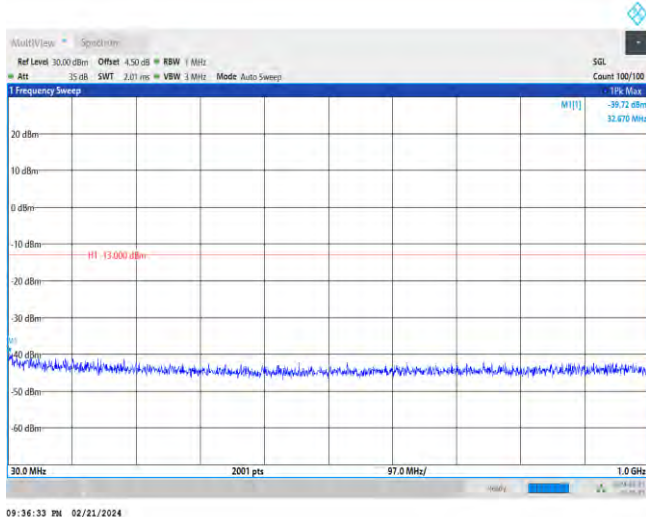


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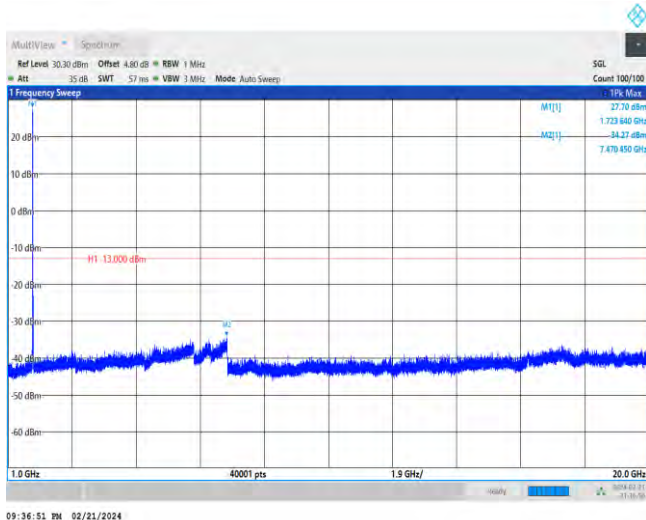
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz

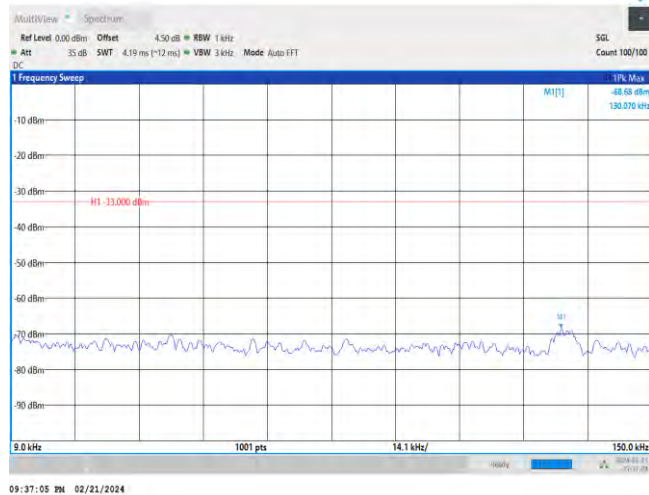


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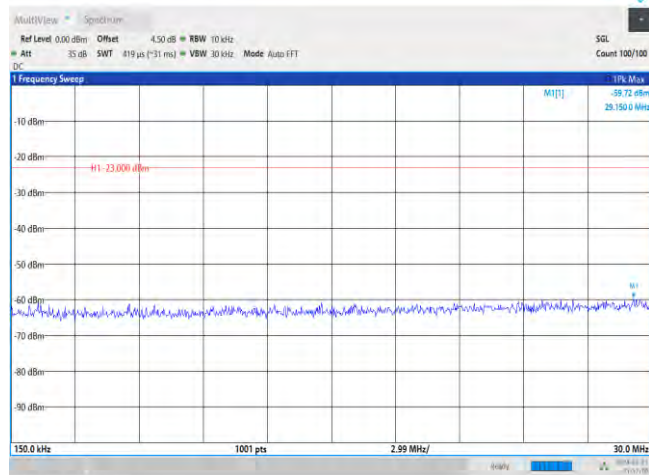
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



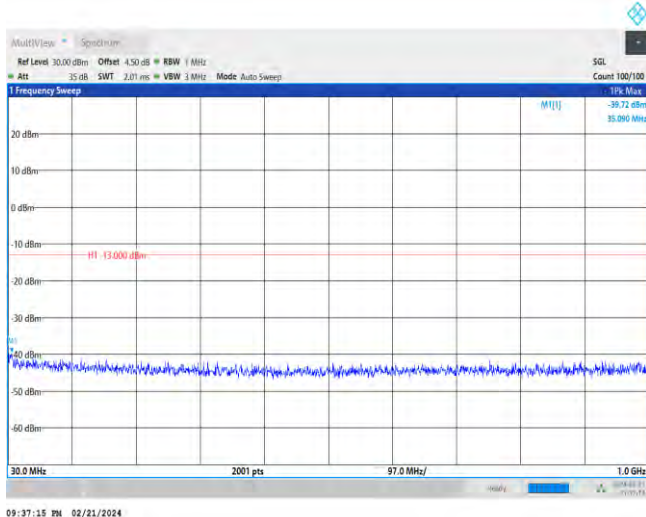
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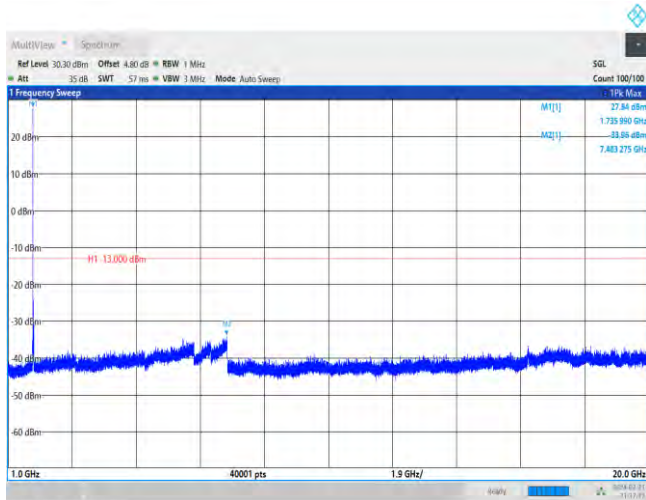
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band4

Test Channel = Low

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1218.5	35.46	-20.44	24.56	-55.68	-13.00	42.68	Horizontal
2	3422	49.21	-45.33	28.73	-62.65	-13.00	49.65	Horizontal
3	5336	46.03	-42.19	32.12	-59.30	-13.00	46.30	Horizontal
4	9881	42.84	-35.11	38.45	-49.08	-13.00	36.08	Horizontal
5	13571.5	43.76	-37.88	40.04	-49.34	-13.00	36.34	Horizontal
6	16598	42.23	-35.35	39.50	-48.88	-13.00	35.88	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1314	35.16	-20.16	24.74	-55.52	-13.00	42.52	Vertical
2	3422	56.73	-45.33	28.73	-55.13	-13.00	42.13	Vertical
3	5133	52.22	-42.53	31.70	-53.87	-13.00	40.87	Vertical
4	6844	47.60	-39.37	35.58	-51.45	-13.00	38.45	Vertical
5	13366.5	44.40	-38.63	39.70	-49.79	-13.00	36.79	Vertical
6	17998.5	41.48	-43.05	48.17	-48.66	-13.00	35.66	Vertical



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Test Band = LTE Band4

Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1377.5	35.11	-19.97	24.99	-55.13	-13.00	42.13	Horizontal
2	3942.5	47.67	-44.19	29.87	-61.91	-13.00	48.91	Horizontal
3	7410.5	44.79	-38.28	36.72	-52.03	-13.00	39.03	Horizontal
4	10933	43.14	-37.28	40.17	-49.23	-13.00	36.23	Horizontal
5	13511	43.45	-37.97	39.92	-49.86	-13.00	36.86	Horizontal
6	17989	41.49	-43.13	48.00	-48.90	-13.00	35.90	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1346	35.20	-20.10	25.06	-55.10	-13.00	42.10	Vertical
2	3447	52.77	-45.26	28.88	-58.87	-13.00	45.87	Vertical
3	5171	54.41	-42.54	31.84	-51.55	-13.00	38.55	Vertical
4	6894	46.88	-39.22	35.42	-52.18	-13.00	39.18	Vertical
5	9910.5	42.94	-35.24	38.61	-48.95	-13.00	35.95	Vertical
6	16595	42.05	-35.35	39.49	-49.07	-13.00	36.07	Vertical



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Test Band = LTE Band4

Test Channel = High

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1220.5	35.28	-20.41	24.56	-55.83	-13.00	42.83	Horizontal
2	3868	47.76	-44.43	29.70	-62.23	-13.00	49.23	Horizontal
3	6866	45.35	-39.31	35.54	-53.68	-13.00	40.68	Horizontal
4	9901	42.51	-34.99	38.60	-49.14	-13.00	36.14	Horizontal
5	13542.5	43.48	-37.93	39.99	-49.72	-13.00	36.72	Horizontal
6	16597.5	41.68	-35.35	39.50	-49.43	-13.00	36.43	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1316.5	35.17	-20.13	24.77	-55.45	-13.00	42.45	Vertical
2	3472	55.86	-45.19	28.99	-55.60	-13.00	42.60	Vertical
3	5208	52.47	-42.53	31.85	-53.47	-13.00	40.47	Vertical
4	6944.5	47.41	-39.44	35.31	-51.98	-13.00	38.98	Vertical
5	9905.5	42.54	-35.10	38.61	-49.21	-13.00	36.21	Vertical
6	16505.5	42.46	-35.60	39.31	-49.09	-13.00	36.09	Vertical



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Test Band = LTE 4A_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	3762	44.34	-45.76	29.02	-67.66	-40.00	27.66	Horizontal
2	6462	43.43	-44.53	33.97	-62.39	-40.00	22.39	Horizontal
3	8452	41.59	-41.54	36.83	-58.38	-40.00	18.38	Horizontal
4	10678	37.72	-38.01	38.57	-56.98	-40.00	16.98	Horizontal
5	13008.5	36.23	-37.30	39.41	-56.92	-40.00	16.92	Horizontal
6	16986.5	33.95	-33.35	42.06	-52.59	-40.00	12.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3880	44.86	-46.21	29.21	-67.40	-40.00	27.40	Vertical
2	5912.5	43.75	-44.95	32.38	-64.08	-40.00	24.08	Vertical
3	8485.5	41.61	-41.60	36.81	-58.44	-40.00	18.44	Vertical
4	9416.5	41.05	-39.90	37.33	-56.77	-40.00	16.77	Vertical
5	12094.5	36.58	-37.36	39.13	-56.91	-40.00	16.91	Vertical
6	14988.5	34.36	-34.64	41.59	-53.95	-40.00	13.95	Vertical



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Test Band = LTE 4A_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	3812.5	44.75	-45.97	29.10	-67.38	-40.00	27.38	Horizontal
2	5974	43.72	-44.87	32.39	-64.01	-40.00	24.01	Horizontal
3	8757.5	41.96	-41.44	36.65	-58.09	-40.00	18.09	Horizontal
4	10681	37.54	-37.99	38.57	-57.14	-40.00	17.14	Horizontal
5	13389	35.75	-36.37	39.94	-55.94	-40.00	15.94	Horizontal
6	16997	33.59	-33.22	42.09	-52.80	-40.00	12.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4398.5	44.87	-45.82	30.36	-65.85	-40.00	25.85	Vertical
2	5996	43.99	-44.84	32.40	-63.71	-40.00	23.71	Vertical
3	8082	41.44	-41.54	37.05	-58.31	-40.00	18.31	Vertical
4	9424	41.20	-39.93	37.35	-56.64	-40.00	16.64	Vertical
5	11729	35.70	-36.95	38.96	-57.55	-40.00	17.55	Vertical
6	16988.5	33.83	-33.32	42.07	-52.68	-40.00	12.68	Vertical



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Test Band = LTE 4A_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	4224	43.46	-45.71	29.94	-67.58	-40.00	27.58	Horizontal
2	6766	43.01	-44.05	34.58	-61.72	-40.00	21.72	Horizontal
3	9330	40.12	-40.10	37.16	-58.08	-40.00	18.08	Horizontal
4	12916.5	36.30	-37.15	39.37	-56.73	-40.00	16.73	Horizontal
5	15801	32.79	-33.03	39.92	-55.58	-40.00	15.58	Horizontal
6	17033	33.68	-33.60	42.25	-52.93	-40.00	12.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4116.5	44.14	-45.76	29.68	-67.20	-40.00	27.20	Vertical
2	6317	43.62	-44.52	33.48	-62.68	-40.00	22.68	Vertical
3	8485.5	42.24	-41.60	36.81	-57.81	-40.00	17.81	Vertical
4	9412	41.38	-39.88	37.32	-56.43	-40.00	16.43	Vertical
5	11930	36.30	-37.26	39.07	-57.15	-40.00	17.15	Vertical
6	16994.5	33.94	-33.25	42.09	-52.48	-40.00	12.48	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
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.10	-0.000058	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	0.30	0.000173	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	0.50	0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.80	0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.10	-0.000058	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.70	0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	1.00	0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.30	-0.000173	PASS

---End of Attachment---



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