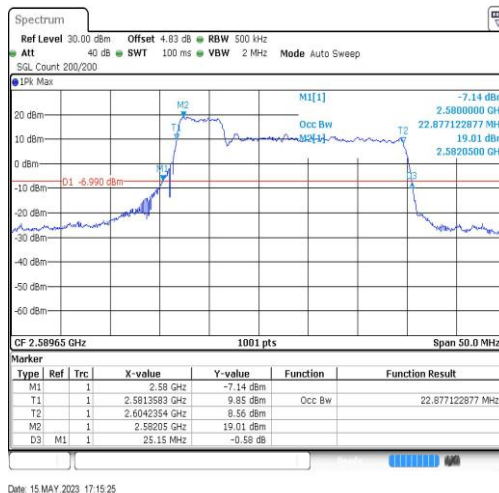


Date: 15 MAY 2023 17:14:19

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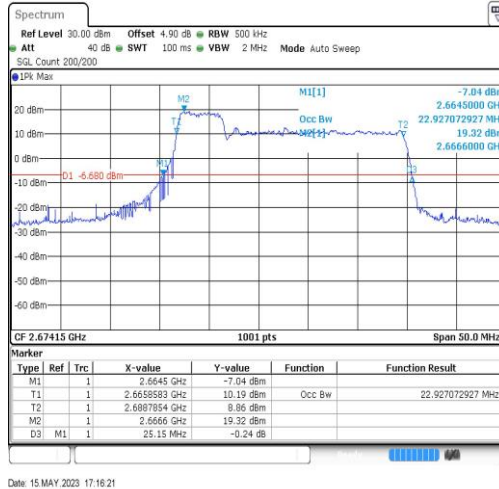
Date: 15 MAY 2023 17:15:25

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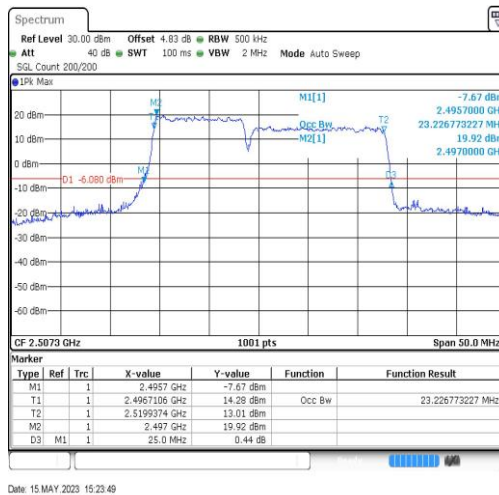
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Date: 15 MAY 2023 17:16:21

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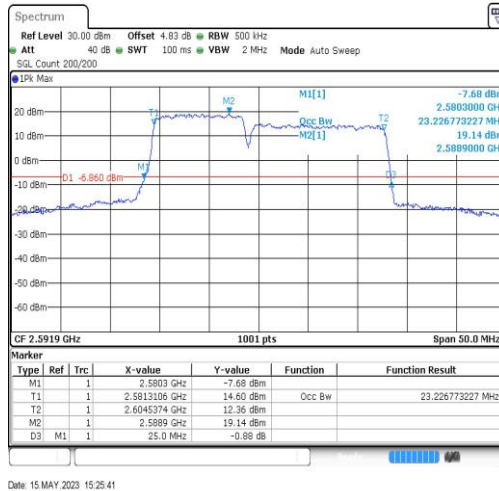


Date: 15 MAY 2023 15:23:49

41-41-10MHz-15MHz-QPSK-QPSK-39703-39823-50RB#0-75RB#0-23.227

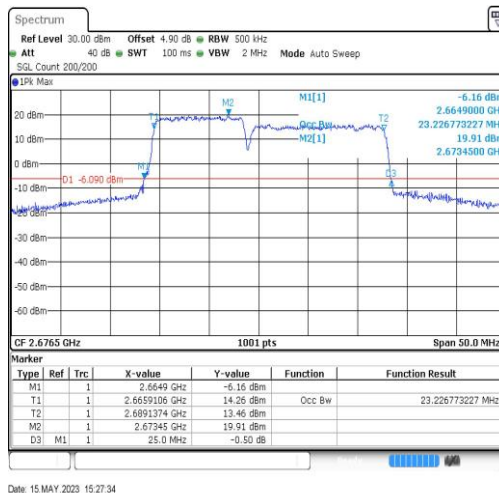


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Date: 15 MAY 2023 15:25:41

41-41-10MHz-15MHz-QPSK-QPSK-40549-40669-50RB#0-75RB#0-23.227

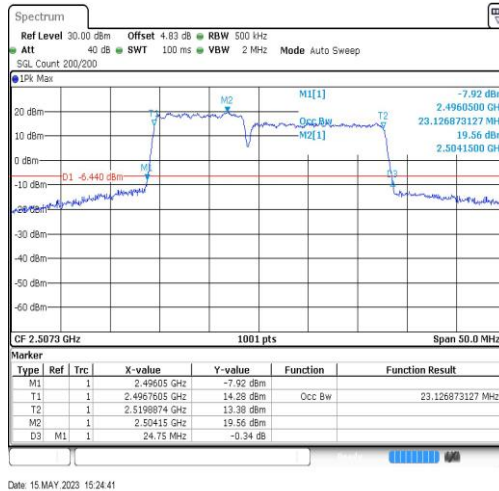


Date: 15 MAY 2023 15:27:34

41-41-10MHz-15MHz-QPSK-QPSK-41395-41515-50RB#0-75RB#0-23.227

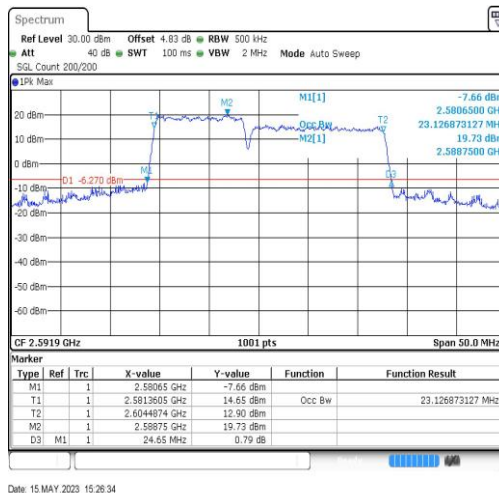


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Date: 15 MAY 2023 15:24:41

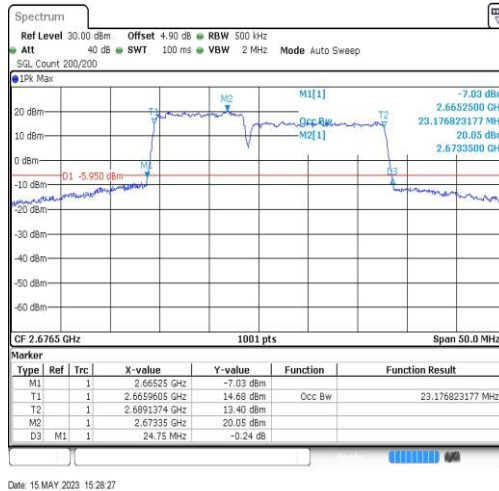
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Date: 15 MAY 2023 15:26:34

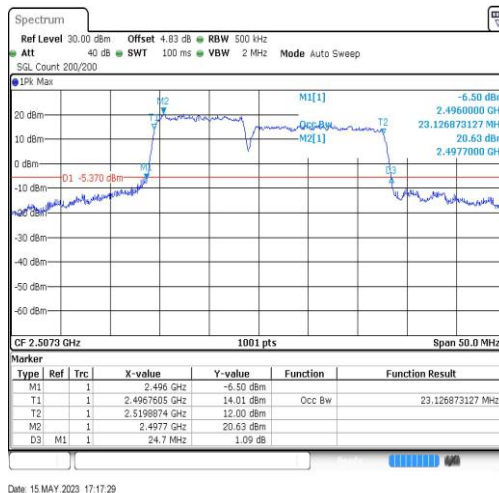
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Date: 15 MAY 2023 15:28:27

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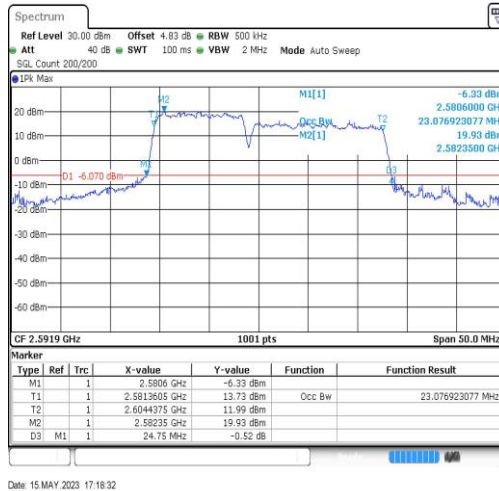
Date: 15 MAY 2023 17:17:29

41-41-10MHz-15MHz-64QAM-64QAM-39703-39823-50RB#0-75RB#0-23.127



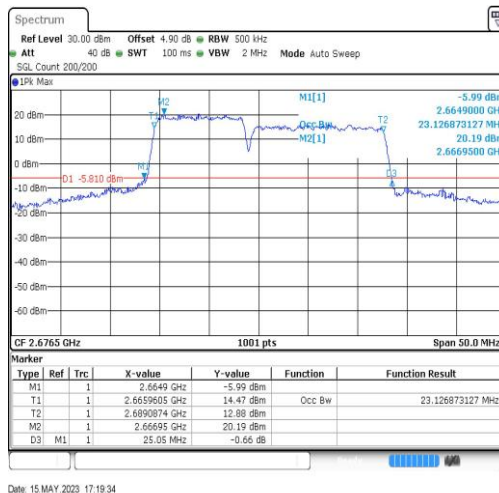
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Date: 15 MAY 2023 17:18:32

41-41-10MHz-15MHz-64QAM-64QAM-40549-40669-50RB#0-75RB#0-23.077



Date: 15 MAY 2023 17:19:34

41-41-10MHz-15MHz-64QAM-64QAM-41395-41515-50RB#0-75RB#0-23.127



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Date: 15 MAY 2023 16:58:56

41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0-37.722



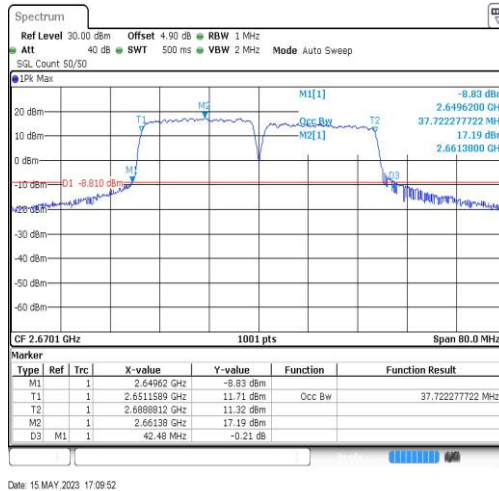
Date: 15 MAY 2023 17:02:56

41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0-37.642



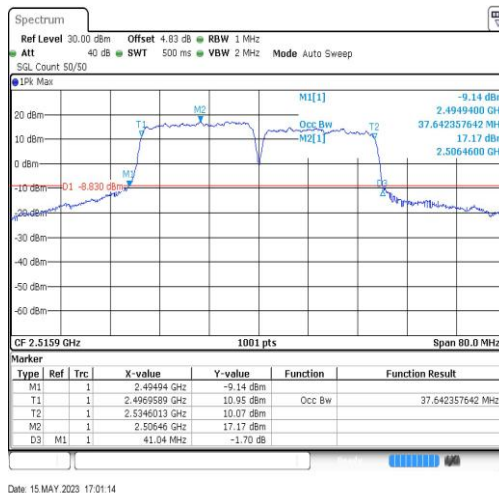
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Date: 15 MAY 2023 17:09:52

41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0-37.722

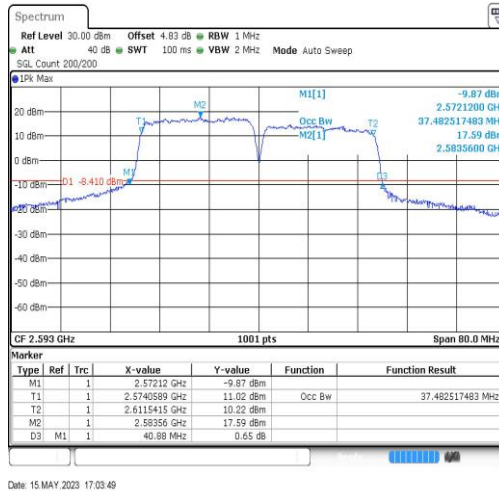


Date: 15 MAY 2023 17:01:14

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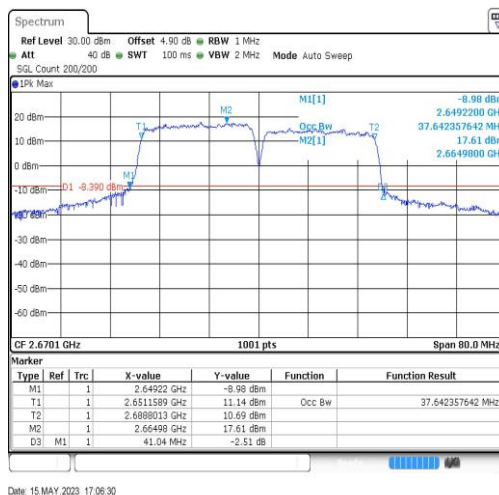


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Date: 15 MAY 2023 17:03:49

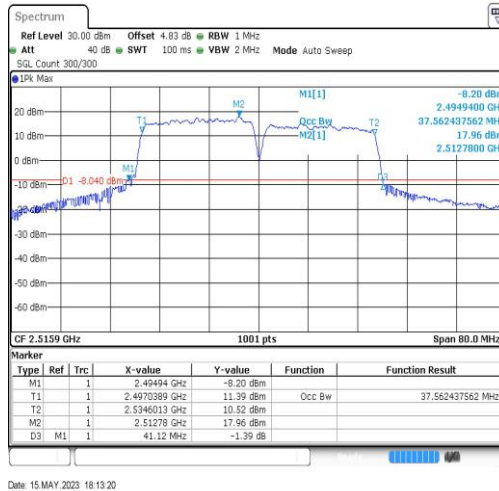
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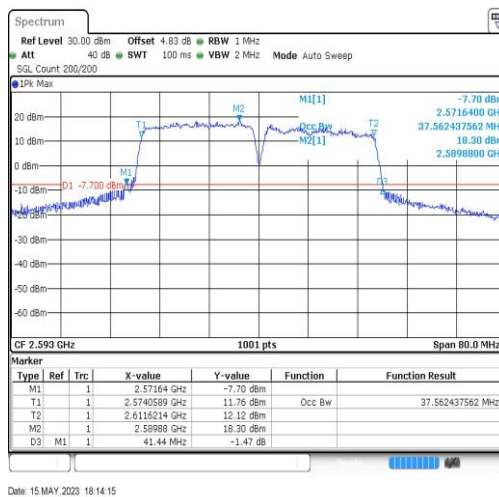
Date: 15 MAY 2023 17:06:30

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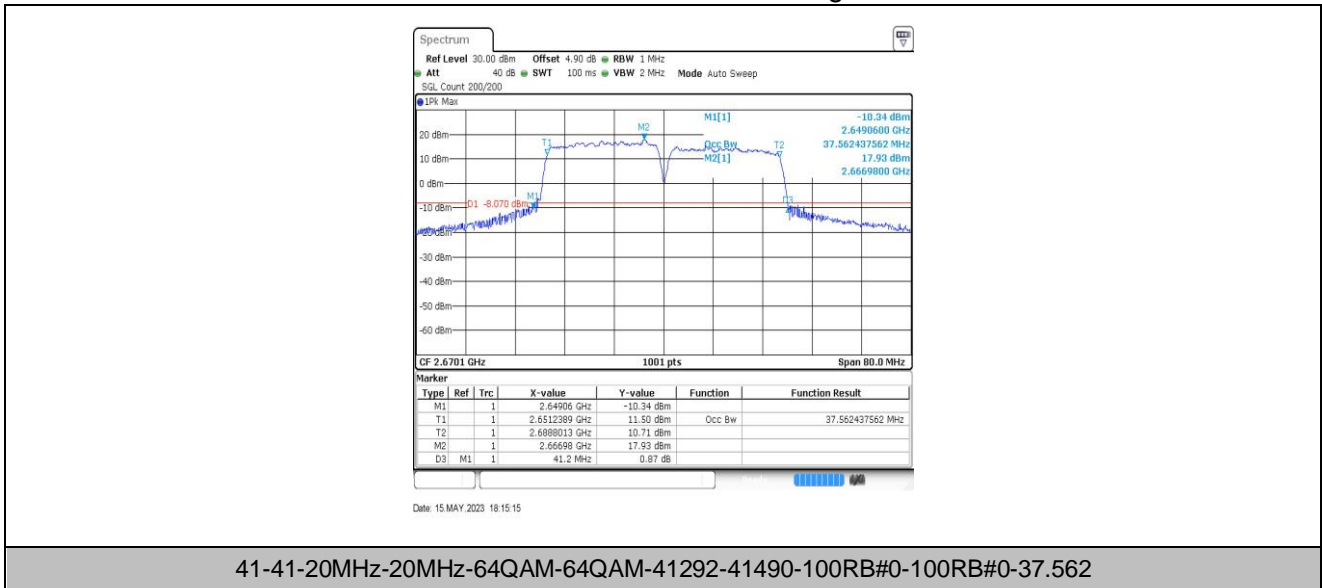


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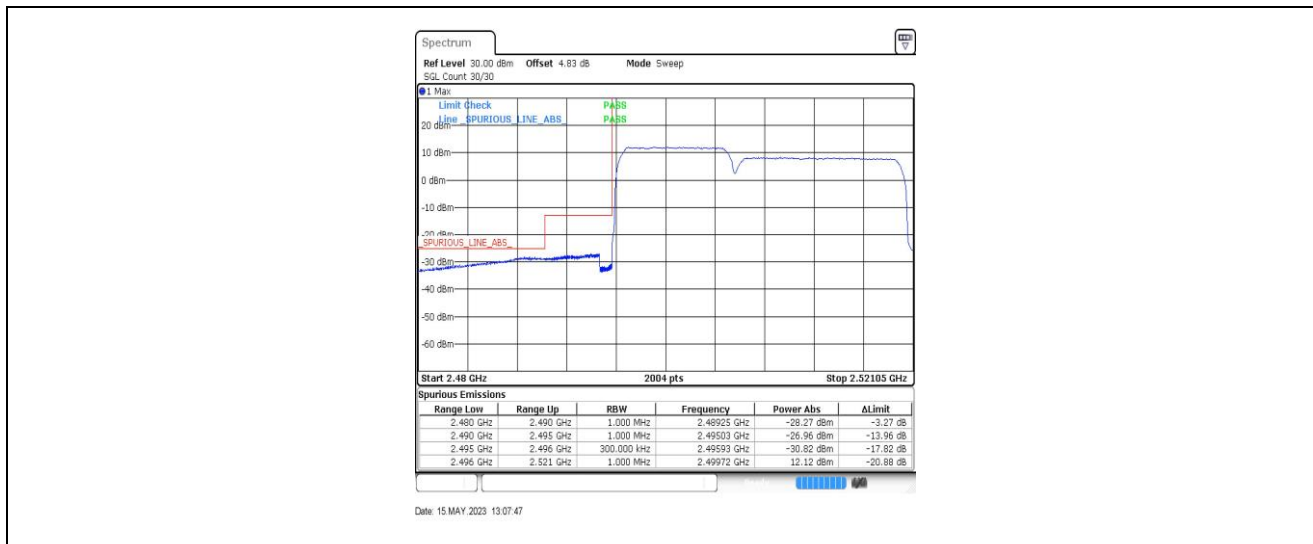


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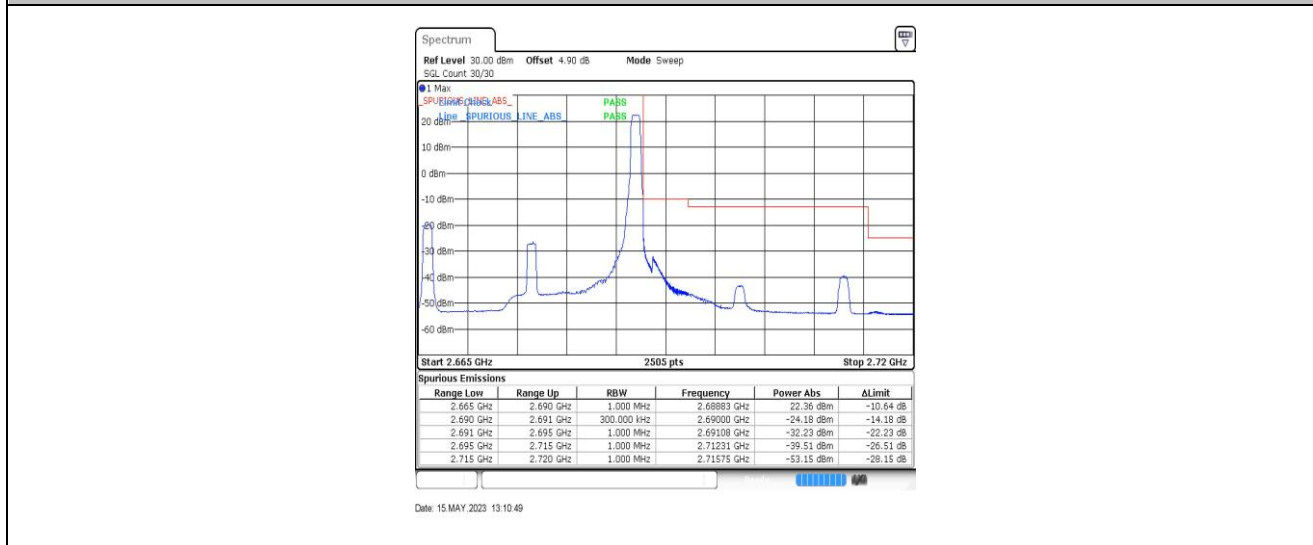
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Band Edge

Test Graphs



41-41-10MHz-15MHz-QPSK-QPSK-39703-39823-50RB#0-75RB#0



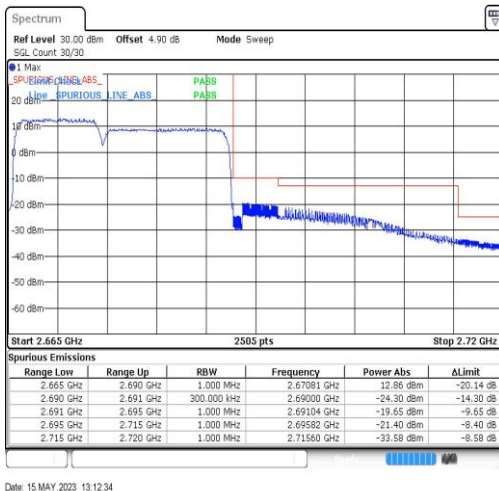
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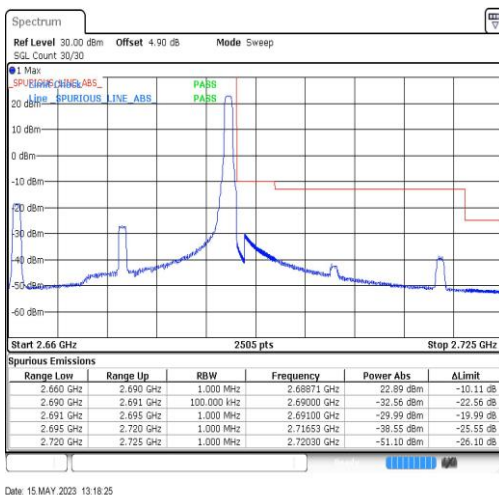
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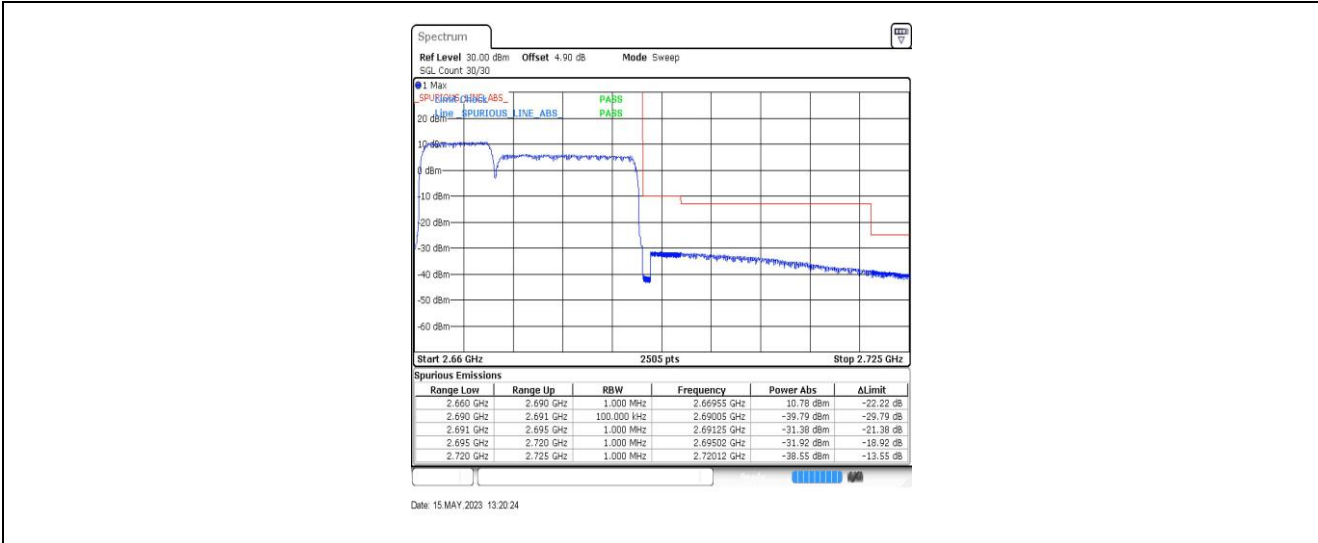


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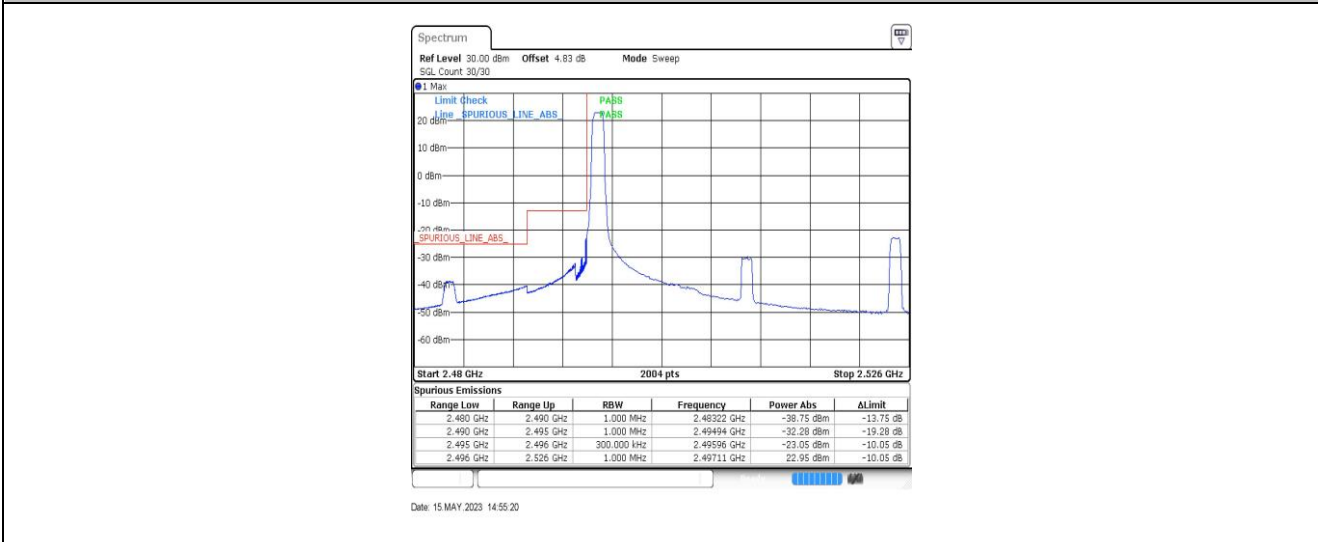


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41-41-10MHz-20MHz-QPSK-QPSK-41346-41490-50RB#0-100RB#0

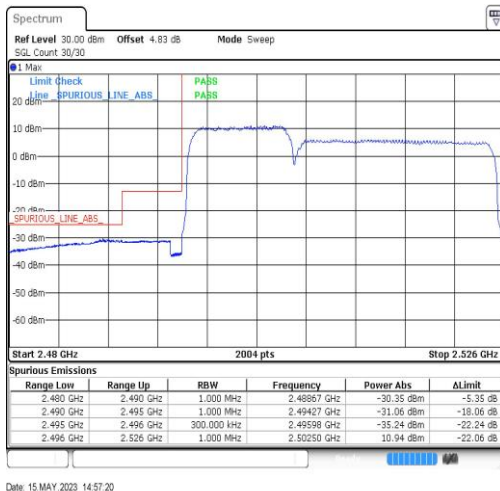


41-41-10MHz-20MHz-QPSK-QPSK-39705-39849-1RB#0-0RB#0



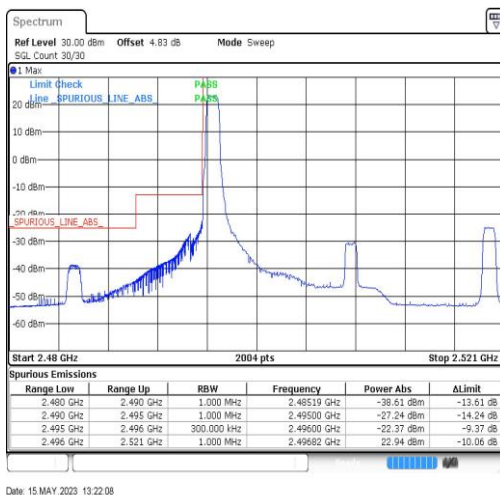
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Date: 15 MAY 2023 14:57:20

41-41-10MHz-20MHz-QPSK-QPSK-39705-39849-50RB#0-100RB#0

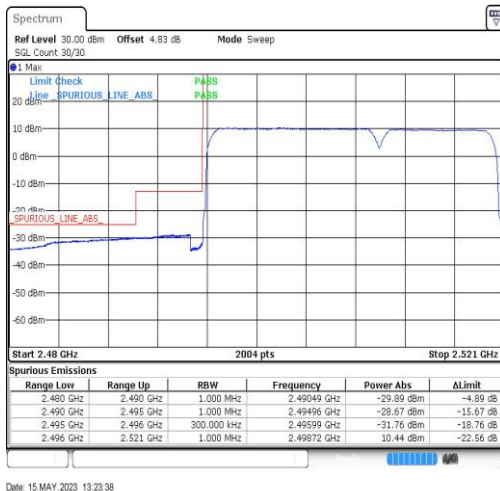


Date: 15 MAY 2023 13:22:08

41-41-15MHz-10MHz-QPSK-QPSK-39725-39845-1RB#0-0RB#0

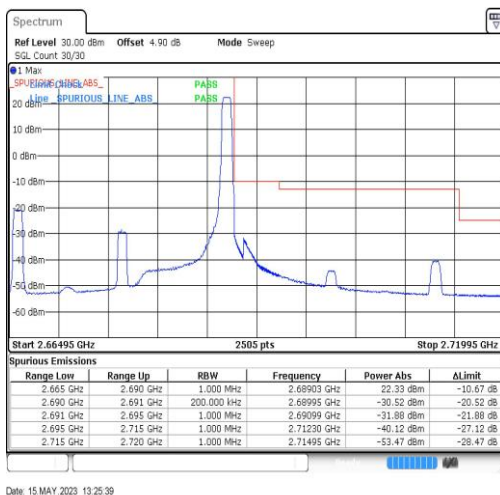


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Date: 15 MAY 2023 13:23:38

41-41-15MHz-10MHz-QPSK-QPSK-39725-39845-75RB#0-50RB#0



Date: 15 MAY 2023 13:25:39

41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-0RB#0-1RB#49

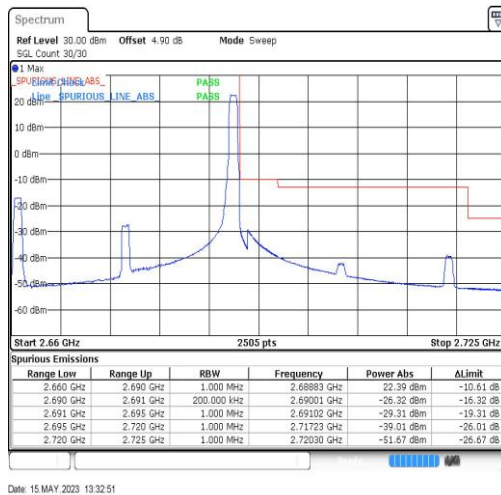


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41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-75RB#0-50RB#0



41-41-15MHz-15MHz-QPSK-QPSK-41365-41515-0RB#0-1RB#74

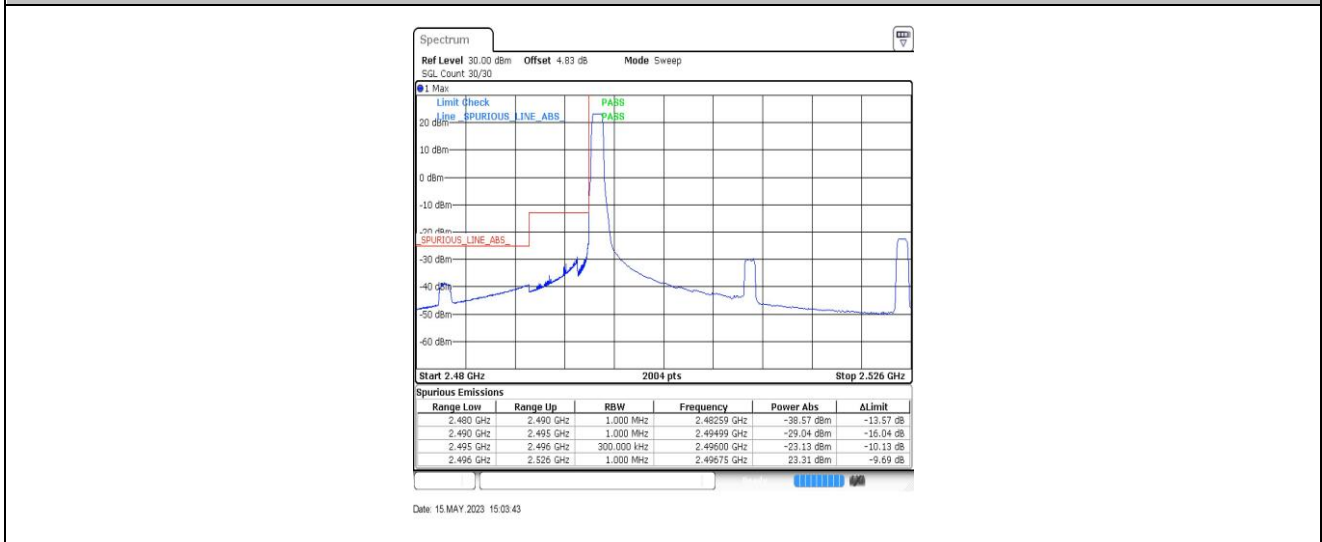


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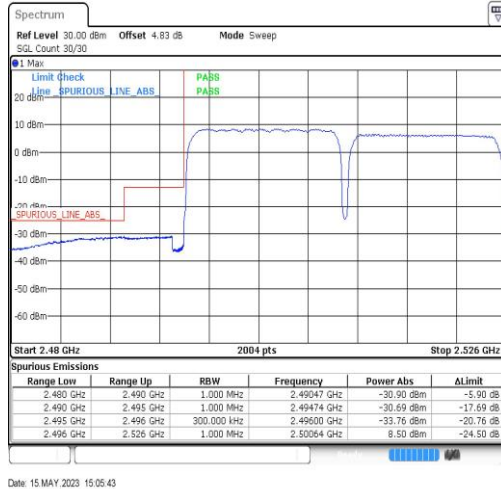
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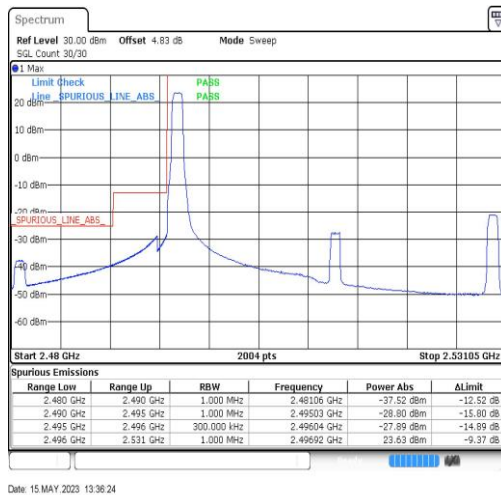
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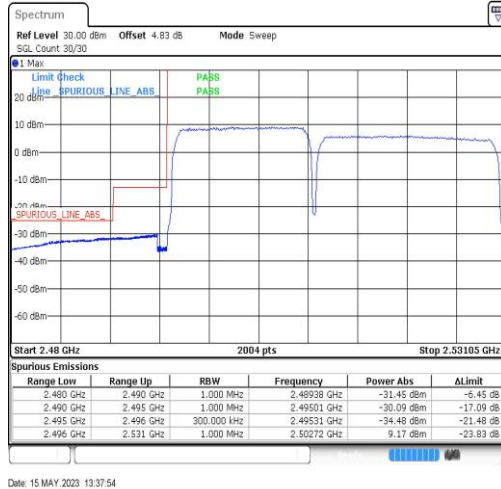
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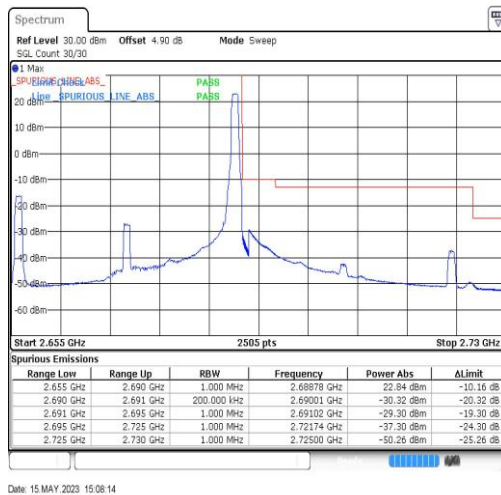
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41-41-15MHz-20MHz-QPSK-QPSK-39728-39899-75RB#0-100RB#0

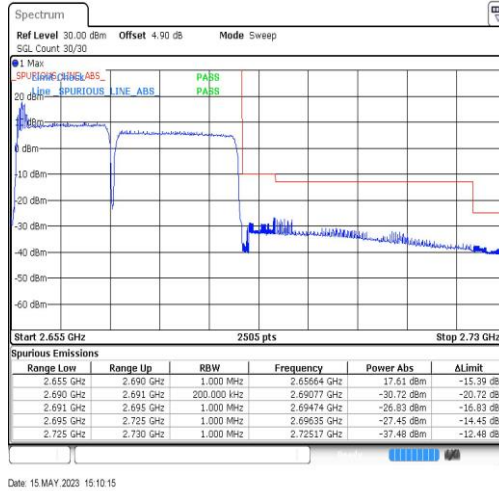


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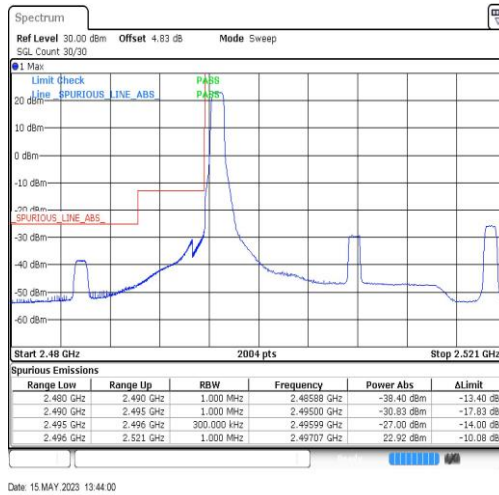


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41-41-15MHz-20MHz-QPSK-QPSK-41319-41490-75RB#0-100RB#0



41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-1RB#0-0RB#0



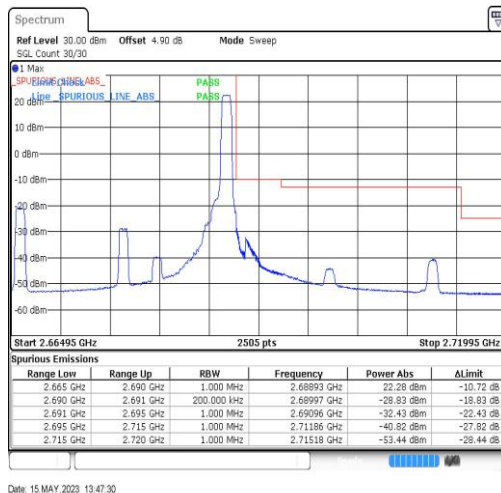
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Date: 15 MAY 2023 13:45:29

41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-100RB#0-25RB#0



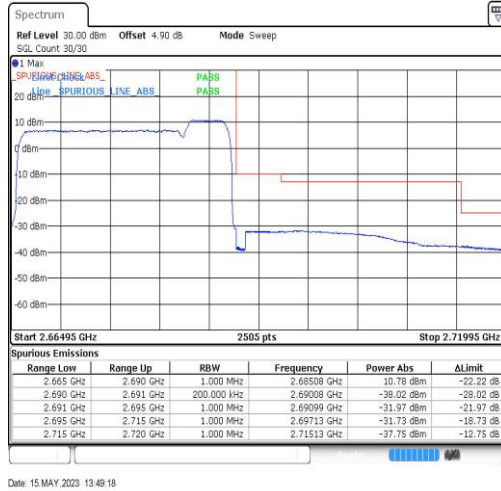
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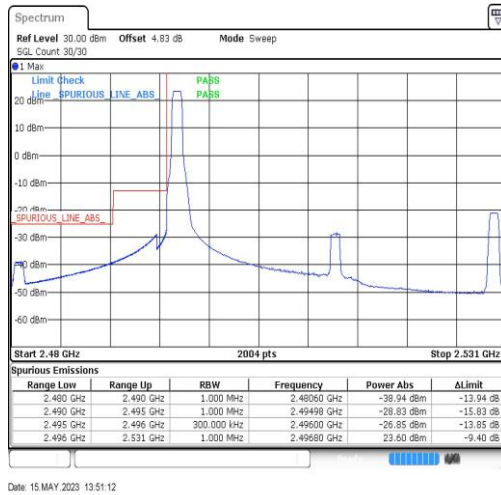


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41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-100RB#0-25RB#0



41-41-20MHz-15MHz-QPSK-QPSK-39750-39921-1RB#0-0RB#0

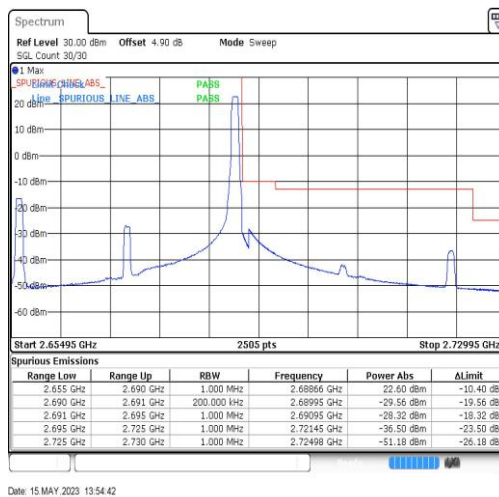


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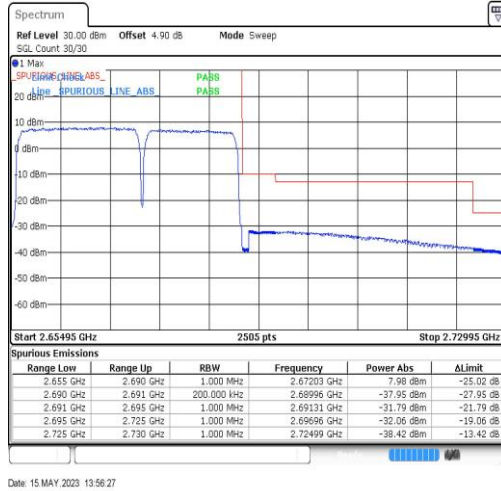


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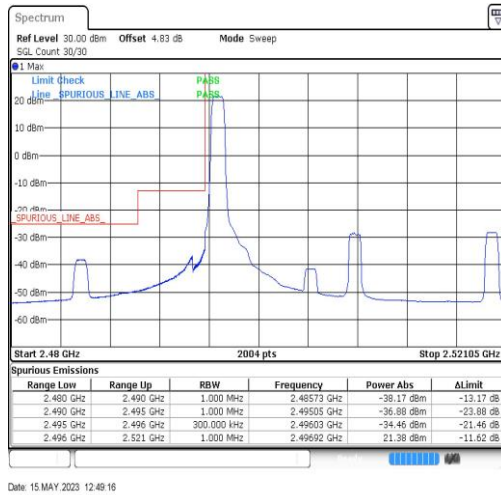


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41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-100RB#0-75RB#0



41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-1RB#0-0RB#0



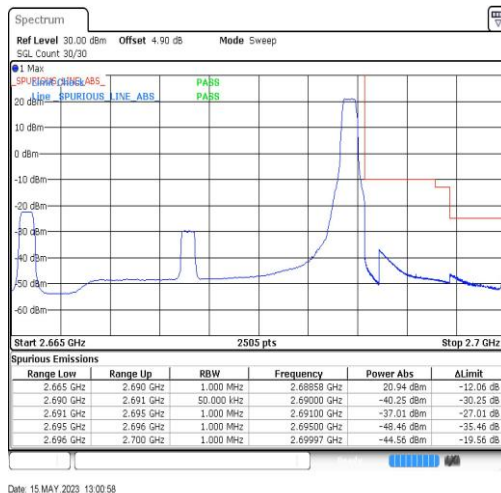
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Date: 15 MAY 2023 12:53:52

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Date: 15 MAY 2023 13:00:58

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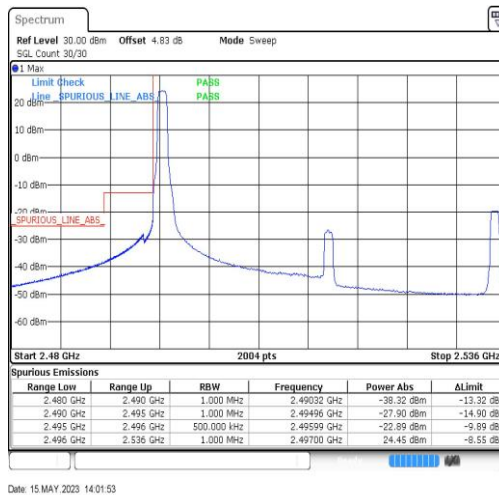


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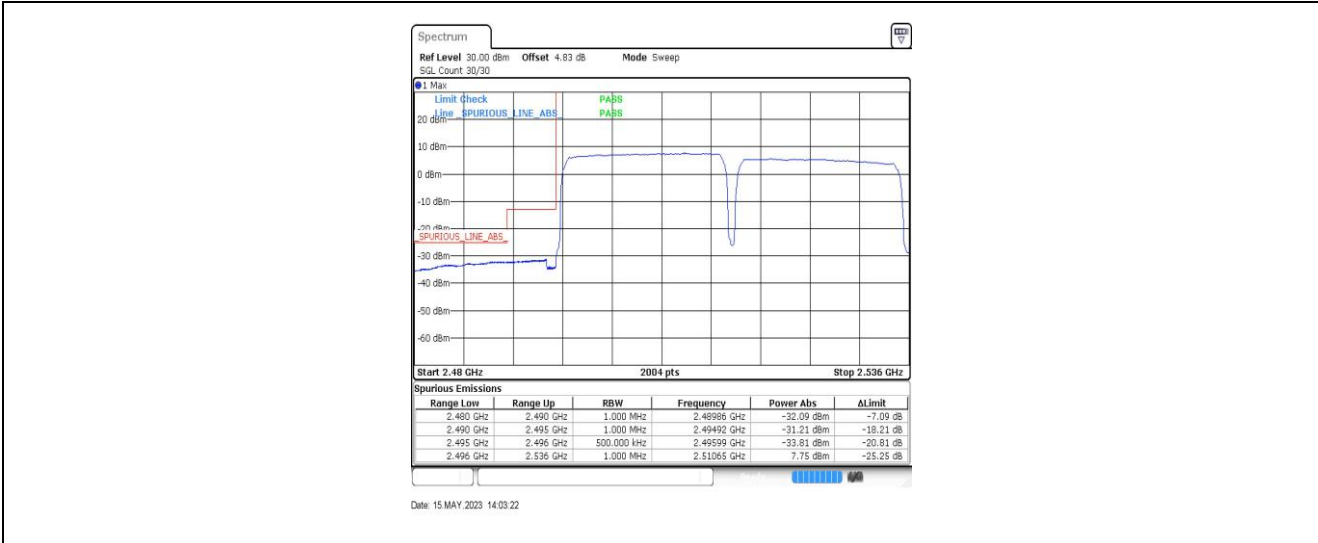


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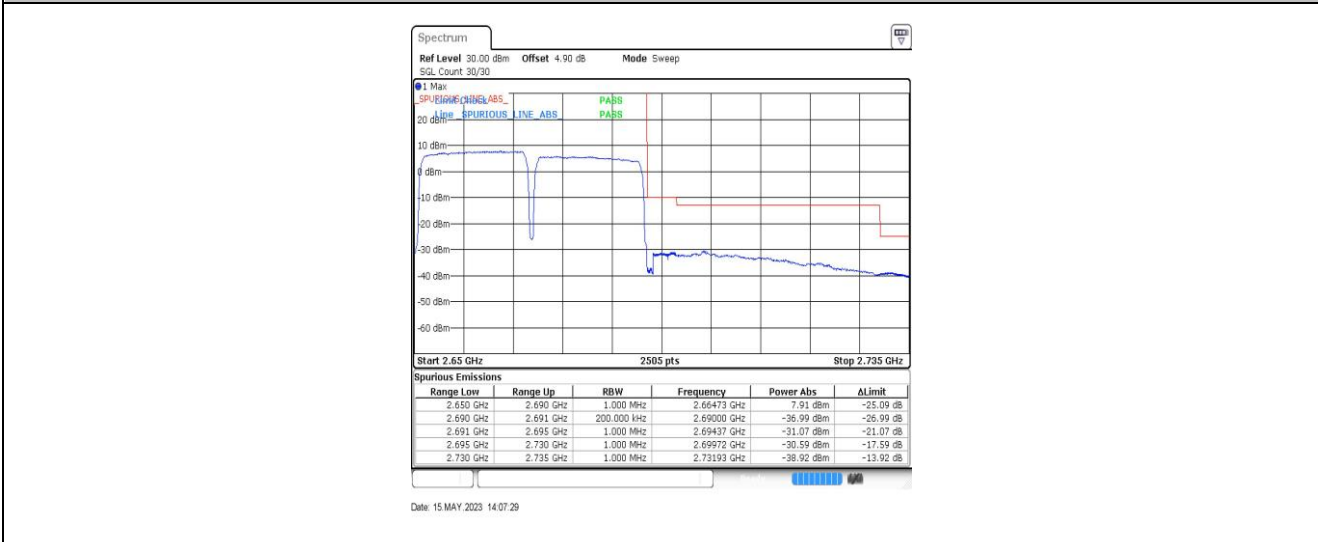


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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0

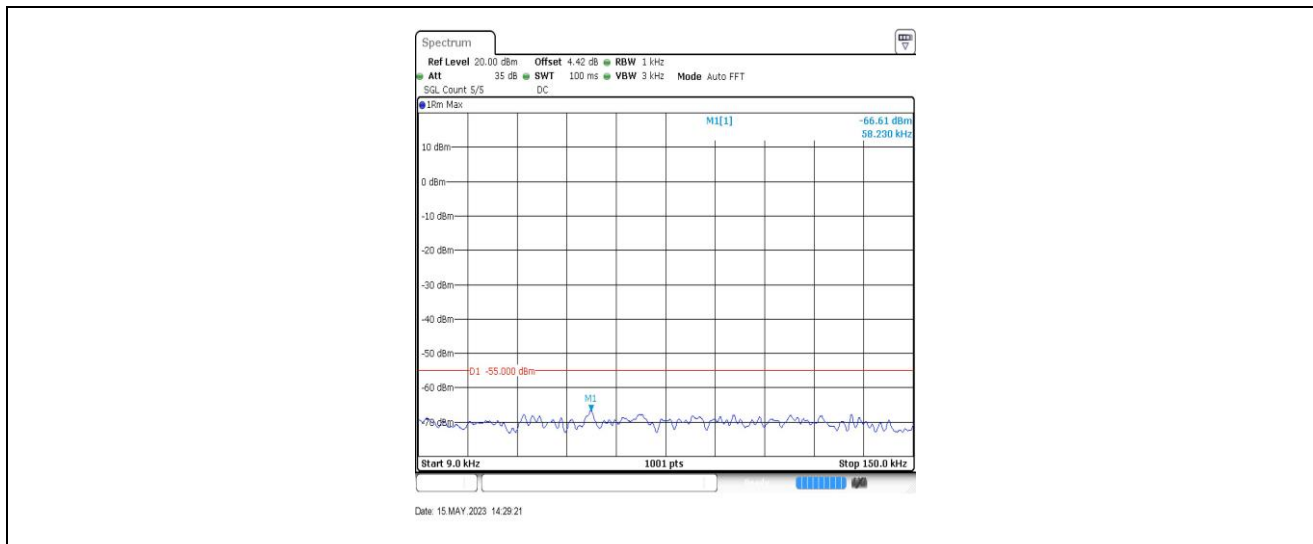


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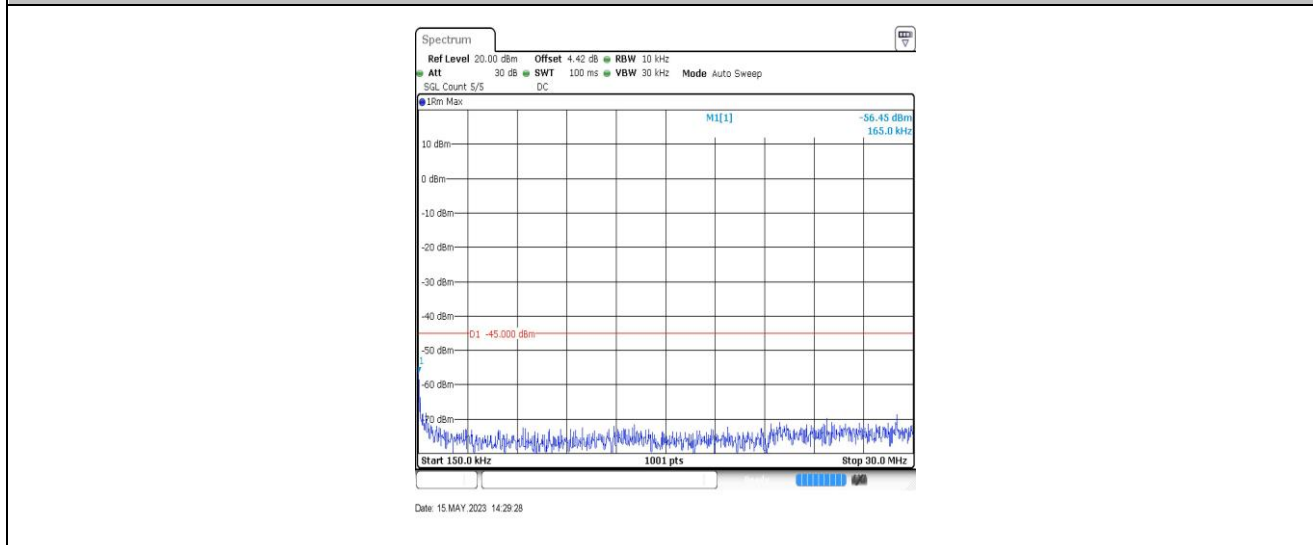
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Conducted Spurious Emission

Test Graphs



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-0.009~0.15MHz



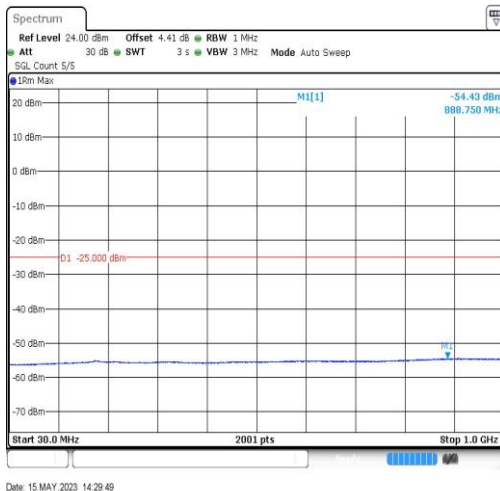
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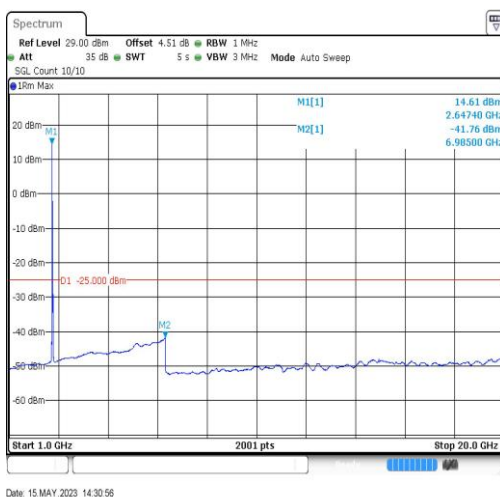
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-30~1000MHz

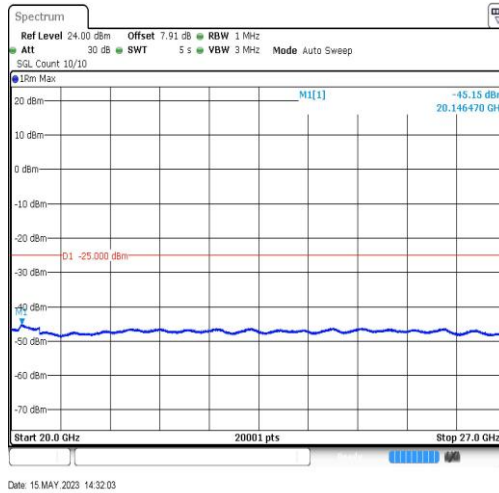


41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-1000~20000MHz

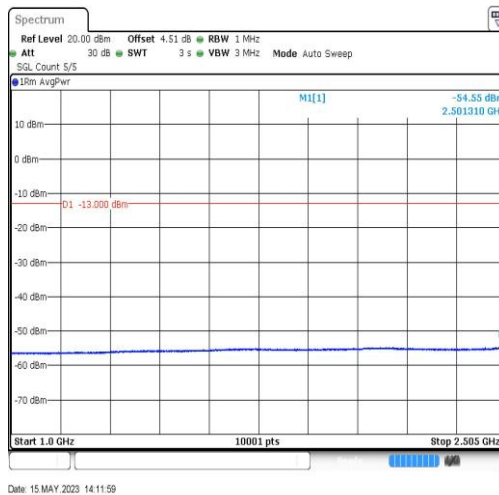


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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-20000~27000MHz



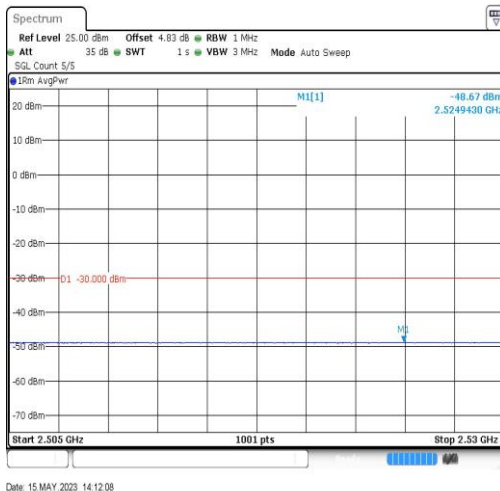
41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-1000~2505MHz



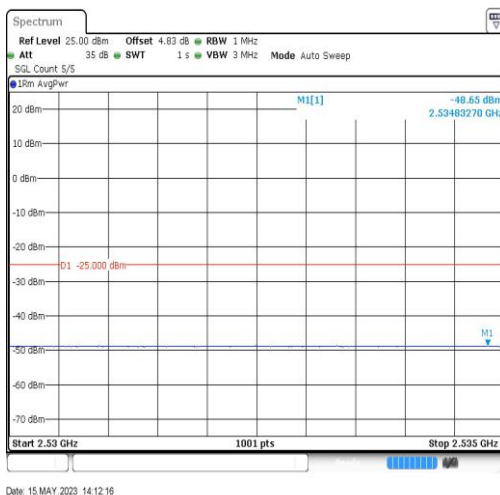
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-2505~2530MHz



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-2530~2535MHz



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Field Strength of Spurious Radiation

Test Band = LTE CA_41C ANT 13_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3962.2981	48.32	-44.18	29.88	-61.24	-25.00	36.24	173	231	Horizontal
2	5677.6339	47.83	-41.21	32.50	-56.14	-25.00	31.14	379	200	Horizontal
3	7867.7434	45.72	-37.62	36.69	-50.47	-25.00	25.47	286	113	Horizontal
4	11038.1519	45.60	-37.21	40.14	-46.73	-25.00	21.73	211	42	Horizontal
5	15198.6099	46.23	-35.34	39.71	-44.66	-25.00	19.66	192	10	Horizontal
6	17987.2494	46.33	-43.14	47.97	-44.10	-25.00	19.10	265	30	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3986.2993	48.33	-44.17	29.83	-61.27	-25.00	36.27	103	46	Vertical
2	5688.1344	48.05	-41.18	32.50	-55.89	-25.00	30.89	270	109	Vertical
3	7860.993	45.69	-37.64	36.73	-50.48	-25.00	25.48	217	236	Vertical
4	11092.9046	45.76	-37.55	40.19	-46.86	-25.00	21.86	369	236	Vertical
5	15195.6098	46.31	-35.46	39.73	-44.68	-25.00	19.68	140	200	Vertical
6	17995.4998	46.02	-43.08	48.12	-44.20	-25.00	19.20	222	310	Vertical



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Test Band = LTE CA_41C ANT 13_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3968.2984	48.38	-44.18	29.86	-61.20	-25.00	36.20	396	180	Horizontal
2	5696.3848	47.82	-41.15	32.50	-56.09	-25.00	31.09	226	93	Horizontal
3	7842.2421	45.70	-37.72	36.77	-50.51	-25.00	25.51	178	156	Horizontal
4	11040.402	45.62	-37.23	40.14	-46.73	-25.00	21.73	224	216	Horizontal
5	15185.1093	46.61	-35.88	39.79	-44.74	-25.00	19.74	262	314	Horizontal
6	17984.2492	46.21	-43.16	47.92	-44.29	-25.00	19.29	241	84	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3925.5463	48.42	-44.19	29.80	-61.23	-25.00	36.23	263	69	Vertical
2	5374.6187	47.54	-42.07	32.35	-57.44	-25.00	32.44	321	34	Vertical
3	7989.2495	45.74	-37.28	36.40	-50.40	-25.00	25.40	266	252	Vertical
4	10948.1474	45.49	-37.21	40.15	-46.83	-25.00	21.83	210	132	Vertical
5	15194.1097	46.44	-35.52	39.74	-44.60	-25.00	19.60	226	204	Vertical
6	18000	45.61	-43.04	48.20	-44.49	-25.00	19.49	216	93	Vertical



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Test Band = LTE CA_41C ANT 13_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3993.0497	48.66	-44.17	29.81	-60.96	-25.00	35.96	164	275	Horizontal
2	5678.3839	48.05	-41.20	32.50	-55.91	-25.00	30.91	151	150	Horizontal
3	7440.972	46.38	-38.28	36.78	-50.38	-25.00	25.38	194	198	Horizontal
4	9902.5951	44.49	-35.03	38.60	-47.20	-25.00	22.20	305	16	Horizontal
5	13544.0272	45.89	-37.92	39.99	-47.30	-25.00	22.30	171	125	Horizontal
6	15220.361	46.25	-35.48	39.74	-44.75	-25.00	19.75	104	169	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3910.5455	48.57	-44.20	29.74	-61.15	-25.00	36.15	212	282	Vertical
2	5514.1257	47.93	-41.79	32.34	-56.78	-25.00	31.78	263	123	Vertical
3	7407.9704	46.20	-38.28	36.72	-50.62	-25.00	25.62	101	88	Vertical
4	9904.0952	44.20	-35.07	38.60	-47.53	-25.00	22.53	256	76	Vertical
5	10968.3984	45.33	-37.12	40.13	-46.92	-25.00	21.92	319	274	Vertical
6	15193.3597	46.56	-35.55	39.74	-44.51	-25.00	19.51	116	207	Vertical



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Test Band = LTE CA_41C ANT 31_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3903.7952	48.46	-44.20	29.72	-61.28	-25.00	36.28	147	291	Horizontal
2	5688.8844	47.98	-41.17	32.50	-55.95	-25.00	30.95	132	44	Horizontal
3	7419.971	46.05	-38.28	36.74	-50.75	-25.00	25.75	280	358	Horizontal
4	10956.3978	45.60	-37.18	40.14	-46.70	-25.00	21.70	267	155	Horizontal
5	15218.1109	46.32	-35.45	39.74	-44.65	-25.00	19.65	387	175	Horizontal
6	17994.7497	46.15	-43.08	48.11	-44.08	-25.00	19.08	234	155	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3963.0482	48.52	-44.18	29.87	-61.05	-25.00	36.05	261	165	Vertical
2	5163.8582	48.34	-42.54	31.83	-57.63	-25.00	32.63	109	292	Vertical
3	7711.7356	45.93	-37.60	36.71	-50.22	-25.00	25.22	149	145	Vertical
4	10957.1479	45.52	-37.17	40.14	-46.77	-25.00	21.77	398	30	Vertical
5	15203.1102	46.15	-35.32	39.71	-44.72	-25.00	19.72	218	292	Vertical
6	17999.25	46.03	-43.05	48.19	-44.09	-25.00	19.09	347	6	Vertical



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Test Band = LTE CA_41C ANT 31_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3675.0338	48.57	-44.47	29.30	-61.86	-25.00	36.86	175	350	Horizontal
2	5132.3566	48.59	-42.53	31.69	-57.51	-25.00	32.51	297	216	Horizontal
3	7693.7347	45.57	-37.64	36.77	-50.56	-25.00	25.56	376	358	Horizontal
4	11094.4047	46.10	-37.56	40.19	-46.53	-25.00	21.53	149	129	Horizontal
5	15173.1087	47.03	-36.35	39.86	-44.72	-25.00	19.72	227	101	Horizontal
6	17996.2498	45.91	-43.07	48.13	-44.29	-25.00	19.29	388	113	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3993.7997	48.40	-44.17	29.81	-61.22	-25.00	36.22	325	338	Vertical
2	5706.8853	47.71	-41.16	32.50	-56.21	-25.00	31.21	236	318	Vertical
3	7989.2495	45.60	-37.28	36.40	-50.54	-25.00	25.54	155	29	Vertical
4	11067.4034	45.59	-37.39	40.17	-46.89	-25.00	21.89	330	311	Vertical
5	15210.6105	46.56	-35.39	39.72	-44.37	-25.00	19.37	299	37	Vertical
6	17995.4998	45.92	-43.08	48.12	-44.30	-25.00	19.30	298	318	Vertical



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Test Band = LTE CA_41C ANT 31_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3963.0482	48.47	-44.18	29.87	-61.10	-25.00	36.10	383	275	Horizontal
2	5718.8859	47.93	-41.19	32.50	-56.02	-25.00	31.02	360	271	Horizontal
3	7454.4727	46.00	-38.29	36.81	-50.74	-25.00	25.74	396	184	Horizontal
4	11019.401	45.54	-37.10	40.12	-46.70	-25.00	21.70	265	124	Horizontal
5	13574.7787	46.06	-37.88	40.05	-47.03	-25.00	22.03	315	358	Horizontal
6	15196.3598	46.31	-35.43	39.72	-44.66	-25.00	19.66	222	101	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3942.7971	48.52	-44.19	29.87	-61.06	-25.00	36.06	327	93	Vertical
2	5080.604	48.24	-42.56	31.54	-58.04	-25.00	33.04	344	46	Vertical
3	7685.4843	45.95	-37.74	36.74	-50.31	-25.00	25.31	119	10	Vertical
4	10962.3981	45.48	-37.15	40.14	-46.79	-25.00	21.79	221	0	Vertical
5	15195.6098	46.28	-35.46	39.73	-44.71	-25.00	19.71	101	319	Vertical
6	17993.9997	46.09	-43.09	48.09	-44.17	-25.00	19.17	369	240	Vertical



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Test on the worst case:

Test Band = LTE_CA_41C ANT 31_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2983	38.06	-16.82	29.63	-44.39	-25.00	19.39	Horizontal
2	4202	53.16	-48.53	31.52	-59.11	-25.00	34.11	Horizontal
3	5643	52.57	-45.29	33.31	-54.67	-25.00	29.67	Horizontal
4	9482	49.92	-41.45	39.13	-47.66	-25.00	22.66	Horizontal
5	12194.5	47.34	-37.99	39.48	-46.43	-25.00	21.43	Horizontal
6	17921.5	48.64	-42.98	42.33	-47.27	-25.00	22.27	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2997.5	37.84	-16.80	29.78	-44.44	-25.00	19.44	Vertical
2	3996	53.03	-49.06	31.08	-60.21	-25.00	35.21	Vertical
3	5680	51.54	-44.92	33.42	-55.22	-25.00	30.22	Vertical
4	8569.5	49.62	-42.45	38.75	-49.34	-25.00	24.34	Vertical
5	12048.5	47.80	-38.30	39.30	-46.46	-25.00	21.46	Vertical
6	15028.5	47.66	-38.98	39.87	-46.71	-25.00	21.71	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



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VN	NT	-0.30	-0.000116	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VL	NT	-11.50	-0.004452	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VH	NT	-10.20	-0.003949	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-30	-9.20	-0.003562	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-20	-8.80	-0.003407	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-10	-10.70	-0.004142	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	0	-11.70	-0.004529	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	10	-6.10	-0.002362	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	20	-6.30	-0.002439	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	30	-6.80	-0.002632	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	40	-7.00	-0.002710	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	50	-9.50	-0.003678	PASS

---End of Attachment---



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com