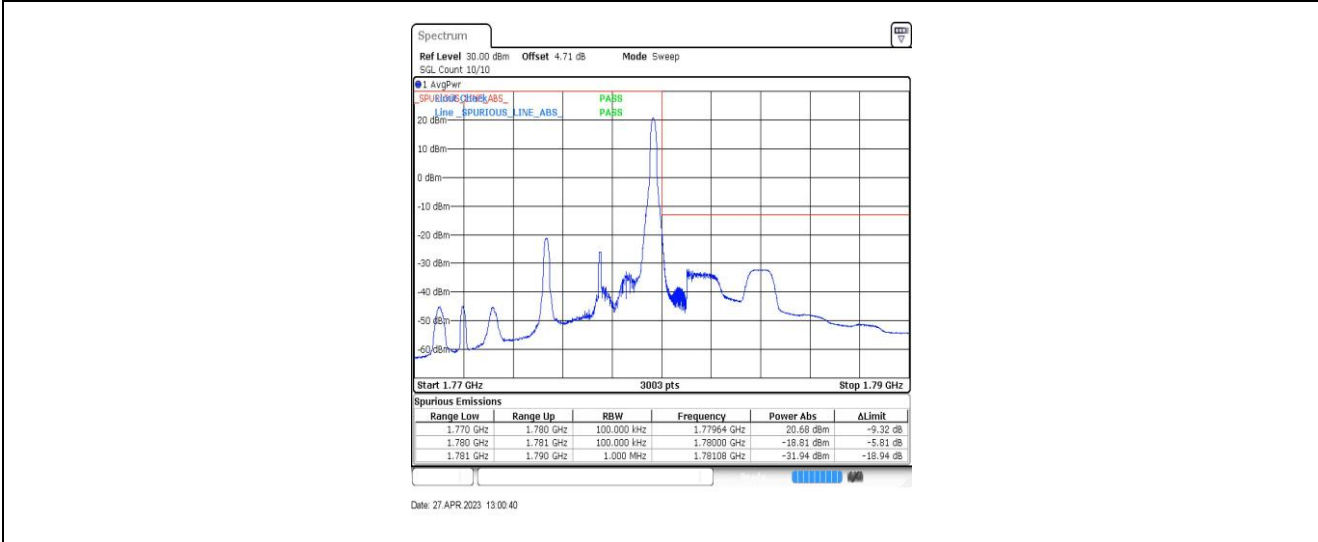


Band66-5MHz-QPSK-131997-25RB#0

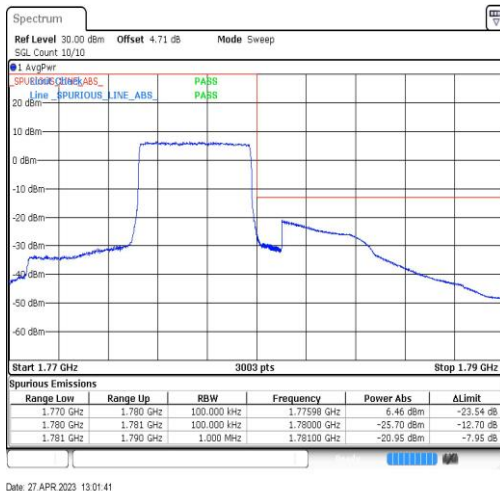


Band66-5MHz-QPSK-132647-1RB#24



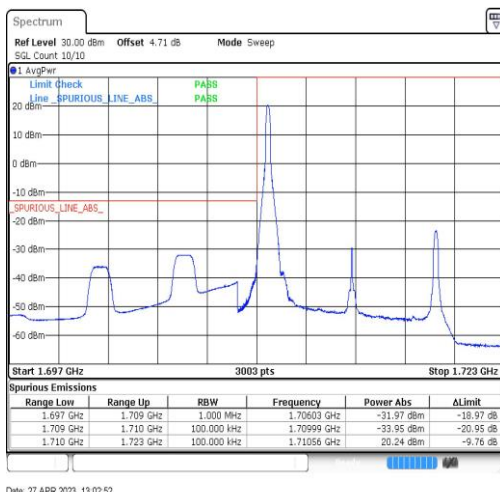
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Date: 27 APR 2023 13:01:41

### Band66-5MHz-QPSK-132647-25RB#0



Date: 27 APR 2023 13:02:52

### Band66-10MHz-QPSK-132022-1RB#0

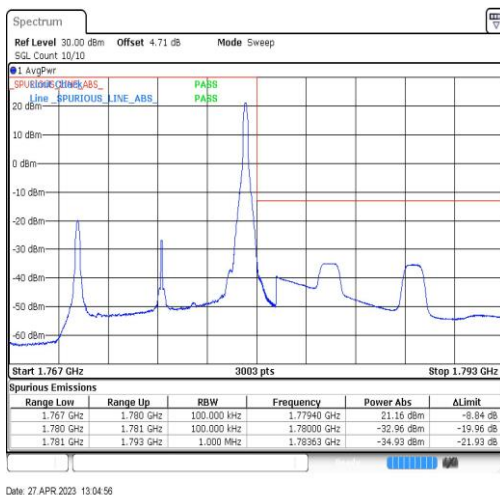


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Band66-10MHz-QPSK-132022-50RB#0



Band66-10MHz-QPSK-132622-1RB#49

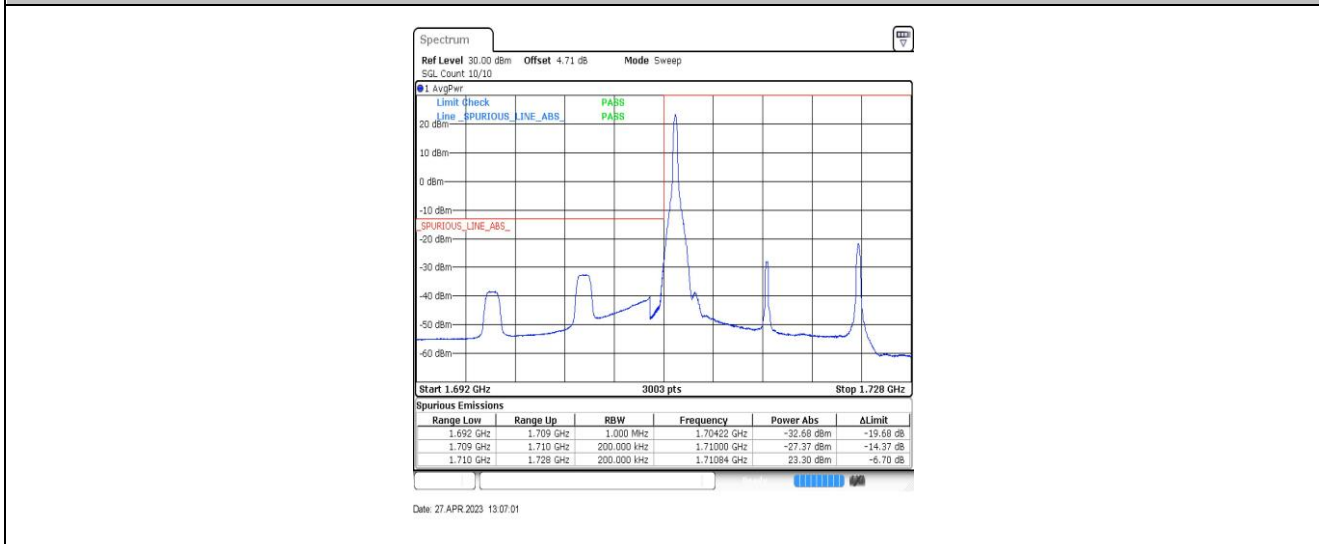


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Band66-10MHz-QPSK-132622-50RB#0



Band66-15MHz-QPSK-132047-1RB#0

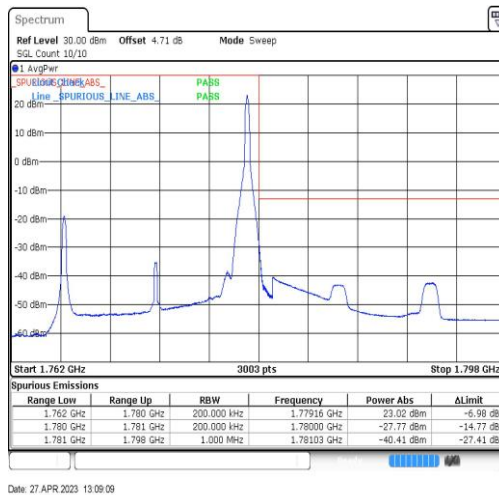


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Band66-15MHz-QPSK-132047-75RB#0



Band66-15MHz-QPSK-132597-1RB#74



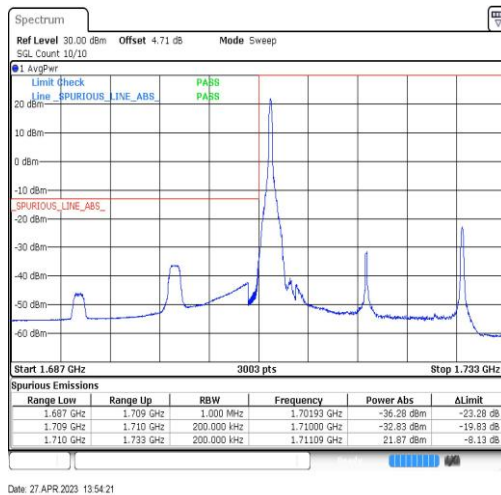
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Band66-15MHz-QPSK-132597-75RB#0



Band66-20MHz-QPSK-132072-1RB#0

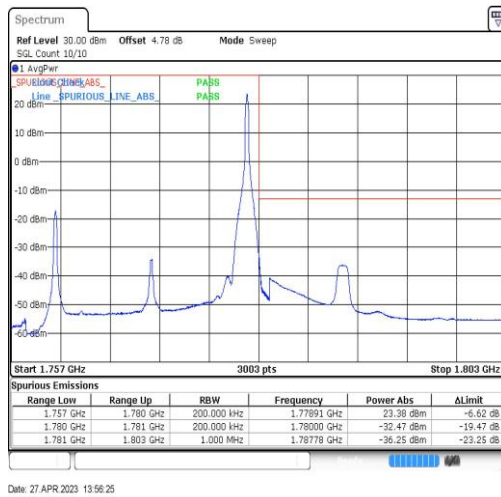


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Band66-20MHz-QPSK-132072-100RB#0

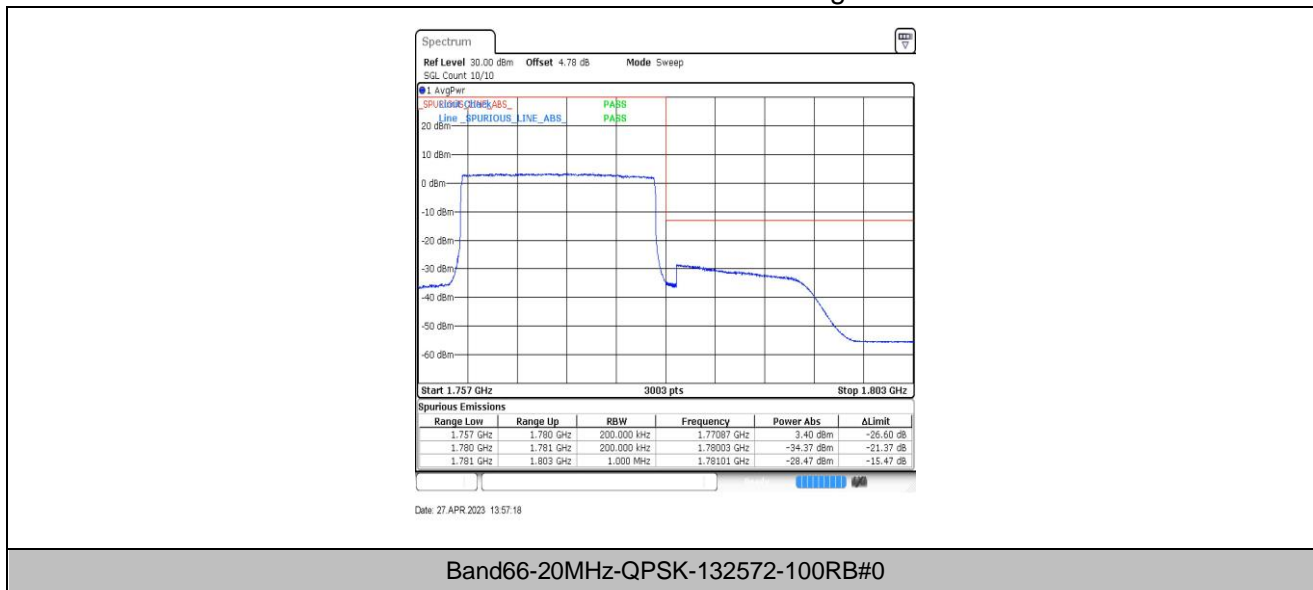


Band66-20MHz-QPSK-132572-1RB#99



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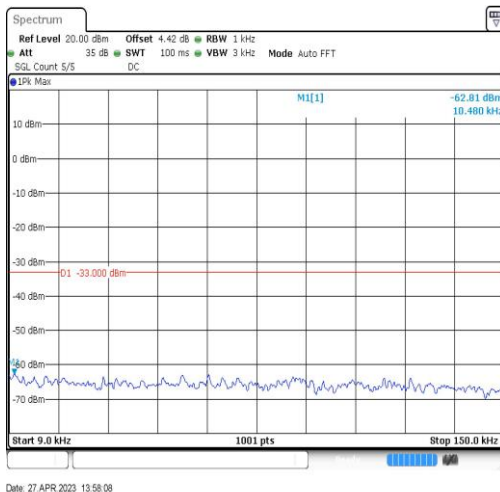
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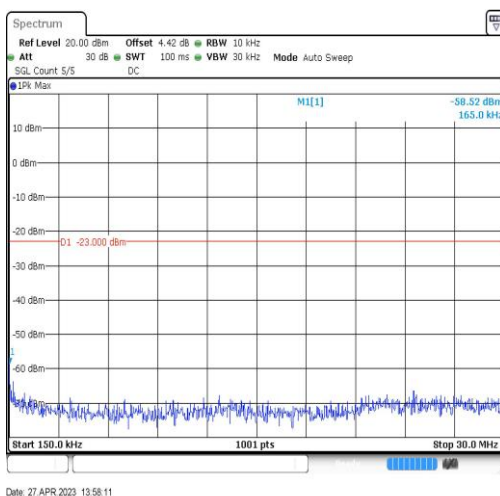


## Conducted Spurious Emission

### Test Graphs



Band66-20MHz-QPSK-132072-1RB#0-Range1:0.009~0.15MHz



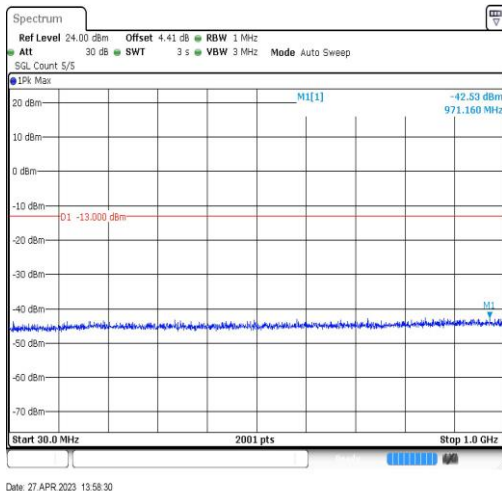
Band66-20MHz-QPSK-132072-1RB#0-Range2:0.15~30MHz



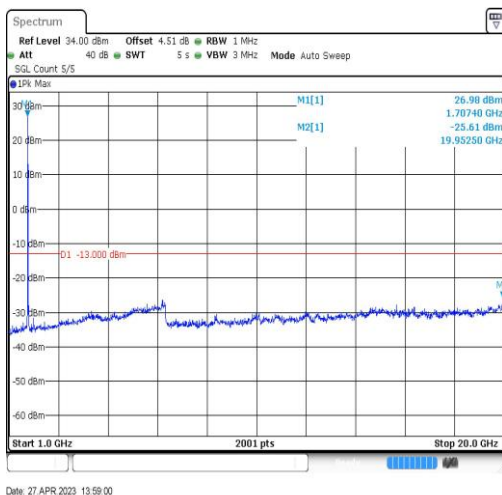
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Band66-20MHz-QPSK-132072-1RB#0-Range3:30~1000MHz



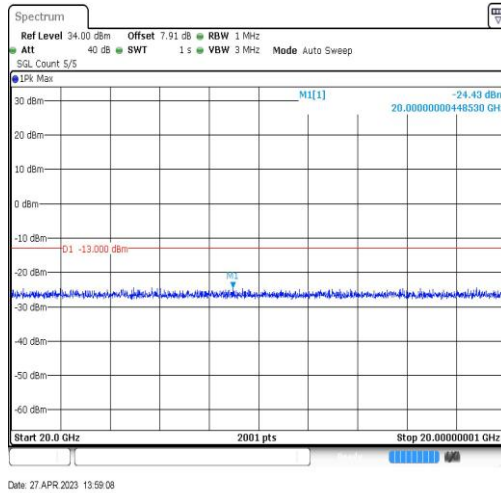
Band66-20MHz-QPSK-132072-1RB#0-Range4:1000~20000MHz



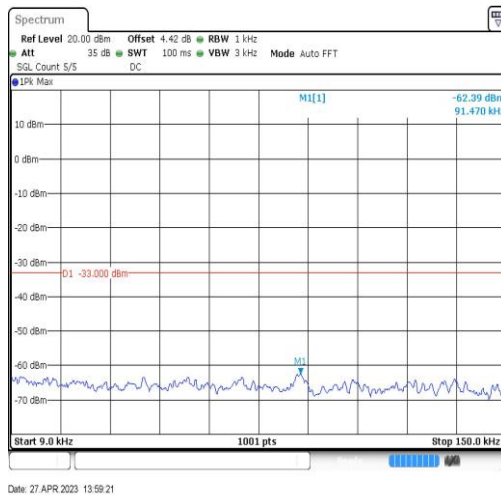
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Band66-20MHz-QPSK-132072-1RB#0-Range5:20000~40000MHz



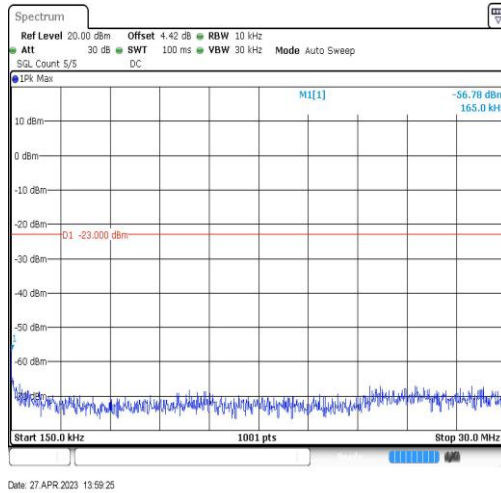
Band66-20MHz-QPSK-132322-1RB#0-Range1:0.009~0.15MHz



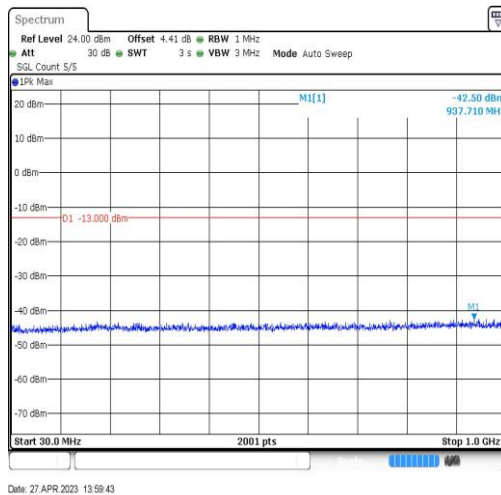
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Band66-20MHz-QPSK-132322-1RB#0-Range2:0.15~30MHz



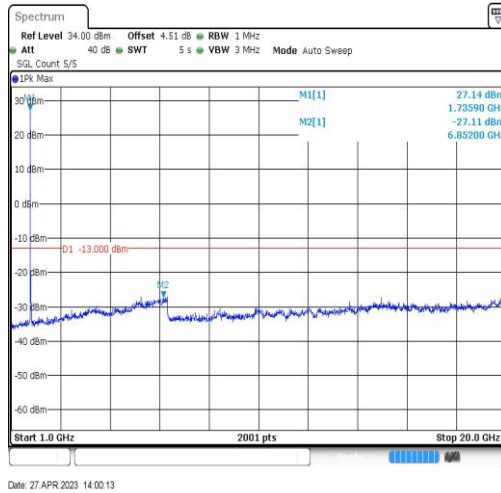
Band66-20MHz-QPSK-132322-1RB#0-Range3:30~100MHz



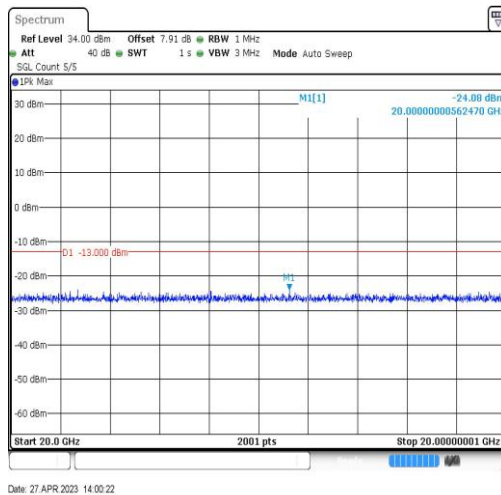
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Band66-20MHz-QPSK-132322-1RB#0-Range4:1000~20000MHz

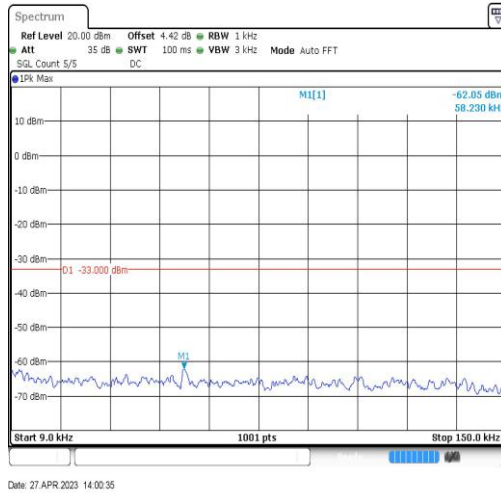


Band66-20MHz-QPSK-132322-1RB#0-Range5:20000~40000MHz

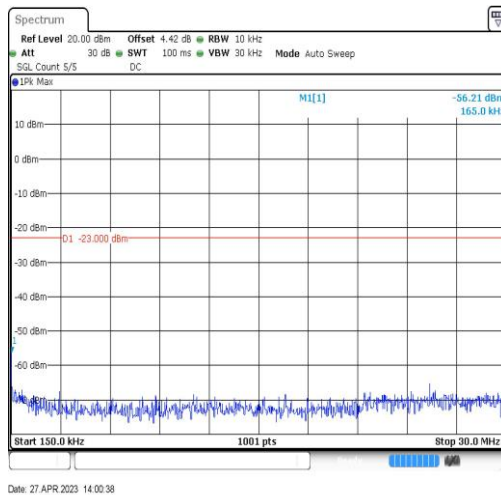


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Band66-20MHz-QPSK-132572-1RB#0-Range1:0.009~0.15MHz

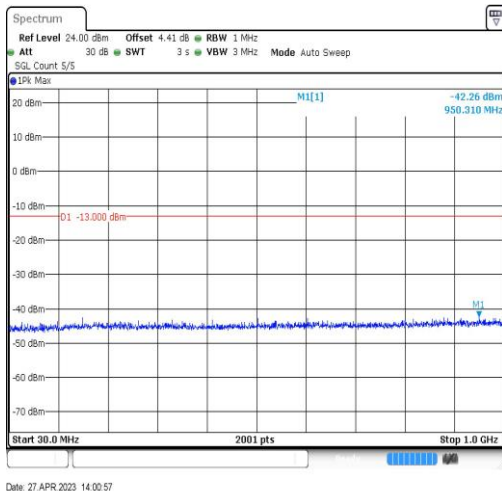


Band66-20MHz-QPSK-132572-1RB#0-Range2:0.15~30MHz



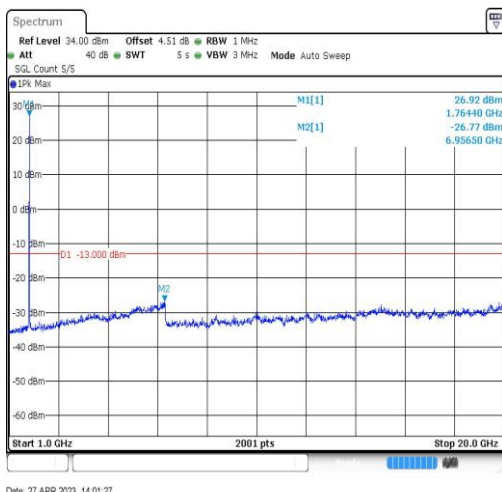
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Date: 27 APR 2023 14:00:57

Band66-20MHz-QPSK-132572-1RB#0-Range3:30~1000MHz



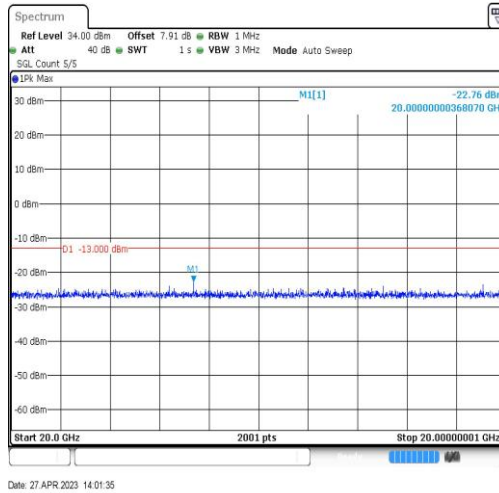
Date: 27 APR 2023 14:01:27

Band66-20MHz-QPSK-132572-1RB#0-Range4:1000~20000MHz



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Band66-20MHz-QPSK-132572-1RB#0-Range5:20000~40000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE\_66 ANT 13 \_20MHz\_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	3422.2711	53.05	-45.33	28.73	-58.81	-13.00	45.81	329	192	Horizontal
2	5888.3944	51.56	-41.15	32.75	-52.10	-13.00	39.10	331	291	Horizontal
3	7843.7422	50.41	-37.72	36.77	-45.80	-13.00	32.80	264	208	Horizontal
4	9478.8239	51.82	-35.88	37.67	-41.65	-13.00	28.65	221	204	Horizontal
5	11062.1531	50.99	-37.36	40.16	-41.47	-13.00	28.47	218	2	Horizontal
6	15203.1102	54.20	-35.32	39.71	-36.67	-13.00	23.67	264	46	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	3654.0327	51.36	-44.44	29.30	-59.04	-13.00	46.04	331	64	Vertical
2	5676.8838	51.75	-41.21	32.50	-52.22	-13.00	39.22	264	56	Vertical
3	7869.2435	50.15	-37.61	36.68	-46.04	-13.00	33.04	221	174	Vertical
4	9426.3213	51.89	-35.55	37.41	-41.51	-13.00	28.51	269	127	Vertical
5	11014.1507	50.82	-37.07	40.11	-41.40	-13.00	28.40	222	345	Vertical
6	15212.8606	54.15	-35.41	39.73	-36.79	-13.00	23.79	316	48	Vertical



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**Test Band = LTE\_66 ANT 13 \_20MHz\_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	3627.0314	51.57	-44.39	29.12	-58.96	-13.00	45.96	394	88	Horizontal
2	5402.3701	51.13	-41.99	32.49	-53.63	-13.00	40.63	226	334	Horizontal
3	7874.4937	50.41	-37.59	36.65	-45.79	-13.00	32.79	264	100	Horizontal
4	9471.3236	51.86	-35.83	37.63	-41.60	-13.00	28.60	196	49	Horizontal
5	11039.652	50.97	-37.22	40.14	-41.37	-13.00	28.37	264	232	Horizontal
6	15209.8605	54.16	-35.38	39.72	-36.76	-13.00	23.76	226	57	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	3654.7827	51.33	-44.44	29.30	-59.07	-13.00	46.07	116	239	Vertical
2	5628.1314	51.88	-41.36	32.54	-52.20	-13.00	39.20	207	255	Vertical
3	7837.7419	50.42	-37.74	36.75	-45.83	-13.00	32.83	265	172	Vertical
4	9446.5723	51.94	-35.67	37.49	-41.50	-13.00	28.50	194	223	Vertical
5	11047.9024	50.88	-37.27	40.15	-41.50	-13.00	28.50	265	263	Vertical
6	15197.1099	54.30	-35.40	39.72	-36.64	-13.00	23.64	263	1	Vertical



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**Test Band = LTE\_66 ANT 13 \_20MHz\_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	3634.5317	51.40	-44.41	29.18	-59.09	-13.00	46.09	159	22	Horizontal
2	5657.3829	51.81	-41.27	32.50	-52.22	-13.00	39.22	216	97	Horizontal
3	7686.2343	50.38	-37.73	36.74	-45.87	-13.00	32.87	264	117	Horizontal
4	9420.321	51.68	-35.51	37.38	-41.71	-13.00	28.71	236	97	Horizontal
5	11056.9028	50.87	-37.33	40.16	-41.56	-13.00	28.56	218	113	Horizontal
6	15187.3594	54.53	-35.79	39.78	-36.74	-13.00	23.74	233	216	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	3625.5313	51.45	-44.39	29.10	-59.10	-13.00	46.10	197	2	Vertical
2	5694.8847	51.91	-41.16	32.50	-52.01	-13.00	39.01	215	58	Vertical
3	7450.7225	50.72	-38.29	36.80	-46.03	-13.00	33.03	264	109	Vertical
4	9454.8227	51.90	-35.73	37.53	-41.56	-13.00	28.56	263	89	Vertical
5	11068.9034	51.06	-37.40	40.17	-41.43	-13.00	28.43	241	196	Vertical
6	15185.1093	54.49	-35.88	39.79	-36.86	-13.00	23.86	269	196	Vertical



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**Test Band = LTE\_ 66 ANT 31 \_20MHz\_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	3422.2711	53.80	-45.33	28.73	-58.06	-13.00	45.06	247	191	Horizontal
2	5135.3568	51.82	-42.53	31.71	-54.26	-13.00	41.26	351	306	Horizontal
3	6823.6912	51.10	-39.44	35.49	-48.11	-13.00	35.11	265	231	Horizontal
4	7852.7426	50.54	-37.68	36.78	-45.62	-13.00	32.62	160	160	Horizontal
5	10963.8982	50.69	-37.14	40.14	-41.57	-13.00	28.57	211	349	Horizontal
6	15200.11	54.46	-35.29	39.70	-36.39	-13.00	23.39	265	329	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	3612.7806	51.64	-44.37	29.00	-58.99	-13.00	45.99	252	270	Vertical
2	5637.1319	52.09	-41.33	32.53	-51.97	-13.00	38.97	213	140	Vertical
3	7692.9846	50.63	-37.65	36.77	-45.51	-13.00	32.51	222	100	Vertical
4	9455.5728	51.91	-35.73	37.53	-41.55	-13.00	28.55	316	53	Vertical
5	11089.1545	51.40	-37.52	40.19	-41.19	-13.00	28.19	220	179	Vertical
6	15207.6104	54.40	-35.36	39.72	-36.50	-13.00	23.50	226	148	Vertical



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**Test Band = LTE\_66 ANT 31\_20MHz\_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	3633.7817	51.55	-44.40	29.17	-58.94	-13.00	45.94	233	56	Horizontal
2	5676.1338	51.98	-41.21	32.50	-51.99	-13.00	38.99	251	128	Horizontal
3	7434.2217	51.10	-38.28	36.77	-45.67	-13.00	32.67	266	218	Horizontal
4	9893.5947	50.25	-35.01	38.55	-41.47	-13.00	28.47	169	222	Horizontal
5	11039.652	51.16	-37.22	40.14	-41.18	-13.00	28.18	222	341	Horizontal
6	15204.6102	54.33	-35.33	39.71	-36.55	-13.00	23.55	216	112	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	3601.5301	51.72	-44.35	28.91	-58.98	-13.00	45.98	311	101	Vertical
2	5592.8796	52.12	-41.47	32.54	-52.07	-13.00	39.07	241	104	Vertical
3	7697.4849	50.09	-37.59	36.79	-45.97	-13.00	32.97	100	133	Vertical
4	9502.8251	51.81	-36.00	37.80	-41.65	-13.00	28.65	216	354	Vertical
5	11101.1551	51.31	-37.61	40.20	-41.36	-13.00	28.36	222	232	Vertical
6	15195.6098	54.49	-35.46	39.73	-36.50	-13.00	23.50	331	140	Vertical



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**Test Band = LTE\_66 ANT 31\_20MHz\_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	3969.7985	51.21	-44.18	29.86	-58.37	-13.00	45.37	187	233	Horizontal
2	5152.6076	52.11	-42.54	31.81	-53.88	-13.00	40.88	167	322	Horizontal
3	6454.6727	51.12	-40.62	33.85	-50.91	-13.00	37.91	285	26	Horizontal
4	8497.7749	50.39	-36.47	36.50	-44.84	-13.00	31.84	336	189	Horizontal
5	9457.8229	51.85	-35.74	37.55	-41.60	-13.00	28.60	326	81	Horizontal
6	16598.9299	54.72	-35.34	39.50	-36.38	-13.00	23.38	240	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	3987.7994	51.15	-44.17	29.82	-58.46	-13.00	45.46	138	324	Vertical
2	5633.3817	52.13	-41.34	32.53	-51.94	-13.00	38.94	176	195	Vertical
3	7443.2222	50.91	-38.28	36.79	-45.84	-13.00	32.84	197	10	Vertical
4	9431.5716	52.14	-35.58	37.43	-41.27	-13.00	28.27	184	236	Vertical
5	11026.1513	51.05	-37.14	40.13	-41.22	-13.00	28.22	128	236	Vertical
6	15218.8609	54.53	-35.46	39.74	-36.45	-13.00	23.45	122	71	Vertical



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**Test on the worst case:**

**Test Band = LTE\_66 ANT 31\_20MHz\_TM1**

**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	38.48	-16.79	29.80	-43.77	-13.00	30.77	Horizontal
2	3612.7806	53.99	-49.51	30.25	-60.53	-13.00	47.53	Horizontal
3	5680.634	51.42	-44.92	33.42	-55.34	-13.00	42.34	Horizontal
4	9511.8256	49.39	-41.53	39.18	-48.22	-13.00	35.22	Horizontal
5	12238.2119	51.54	-37.96	39.58	-42.10	-13.00	34.10	Horizontal
6	16432.4216	62.93	-43.09	38.26	-37.16	-13.00	24.16	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2935.992	38.29	-17.10	29.24	-44.83	-13.00	31.83	Vertical
2	6496.6748	49.91	-44.13	35.05	-54.43	-13.00	41.43	Vertical
3	8550.2775	48.41	-42.25	39.10	-50.00	-13.00	37.00	Vertical
4	11068.1534	52.11	-39.55	39.43	-43.27	-13.00	30.27	Vertical
5	14225.8113	51.42	-39.79	40.77	-42.86	-13.00	29.86	Vertical
6	16448.9224	62.77	-43.40	38.30	-37.59	-13.00	24.59	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.70	-0.002120	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-0.50	-0.000287	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-4.70	-0.002693	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-3.80	-0.002178	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-3.40	-0.001948	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-3.50	-0.002006	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	0.00	0.000000	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-0.80	-0.000458	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	0.60	0.000344	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.30	-0.001318	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-0.60	-0.000344	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-4.00	-0.002292	PASS

---End of Attachment---



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