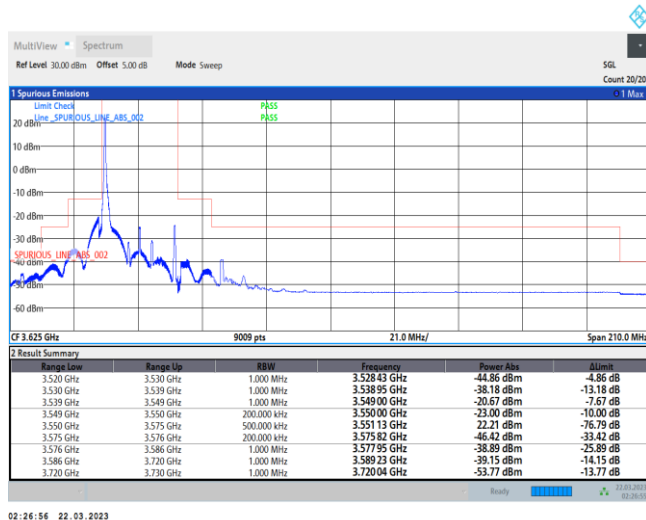


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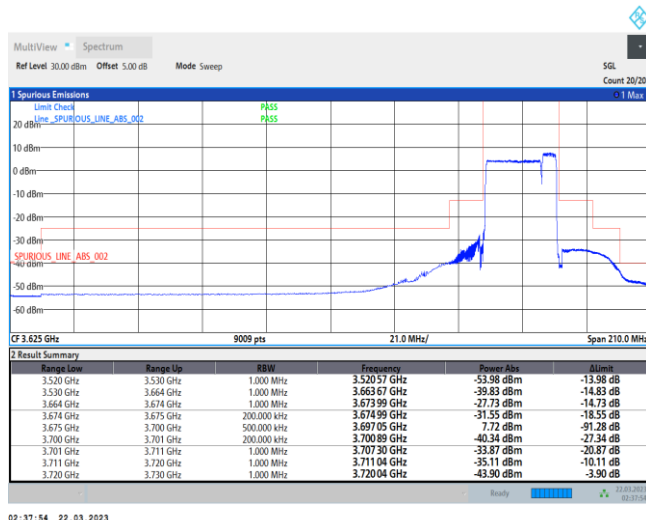
Page: 70 of 83

### 48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-1RB#0-0RB#0



02:26:56 22.03.2023

### 48-48-20MHz-5MHz-QPSK-QPSK-56590-56707-100RB#0-25RB#0



02:37:54 22.03.2023



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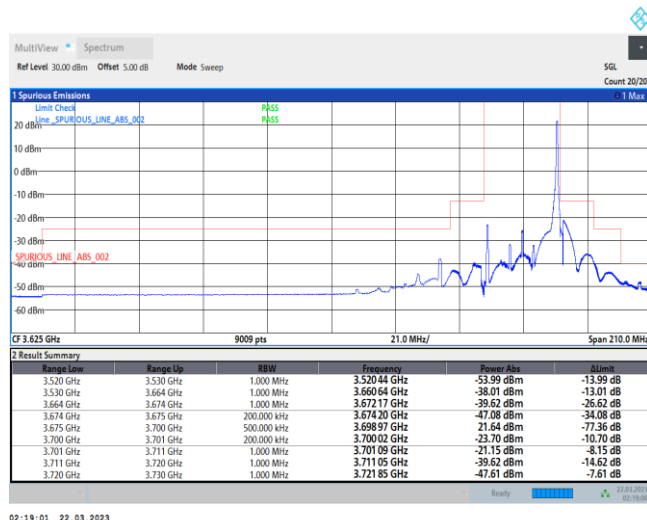
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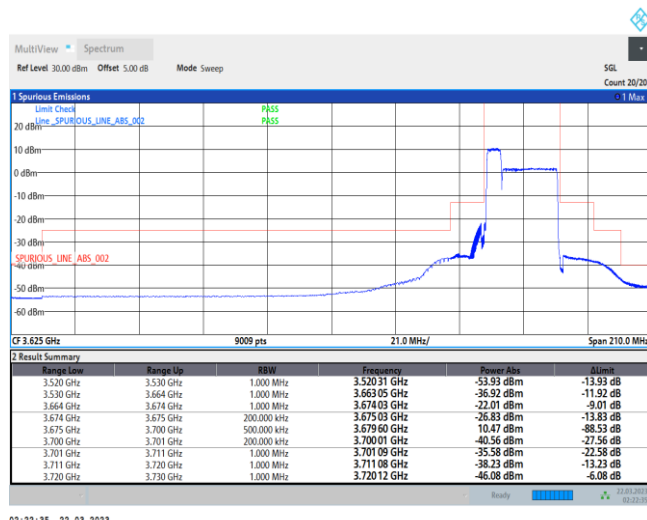
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### 48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-0RB#0-1RB#99



02:19:01 22.03.2023

### 48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-25RB#0-100RB#0



02:22:35 22.03.2023



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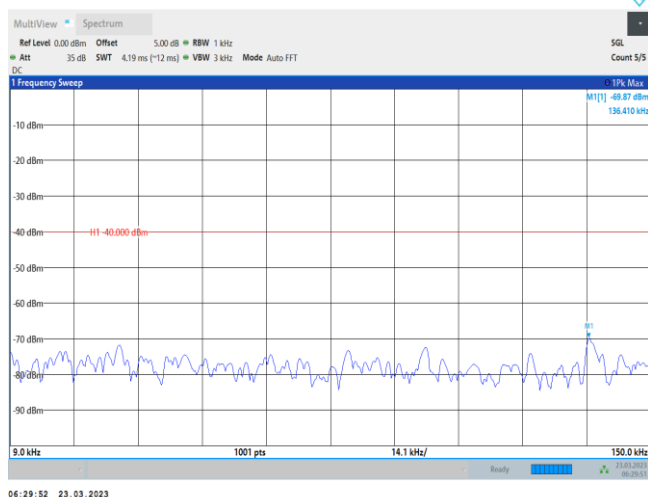
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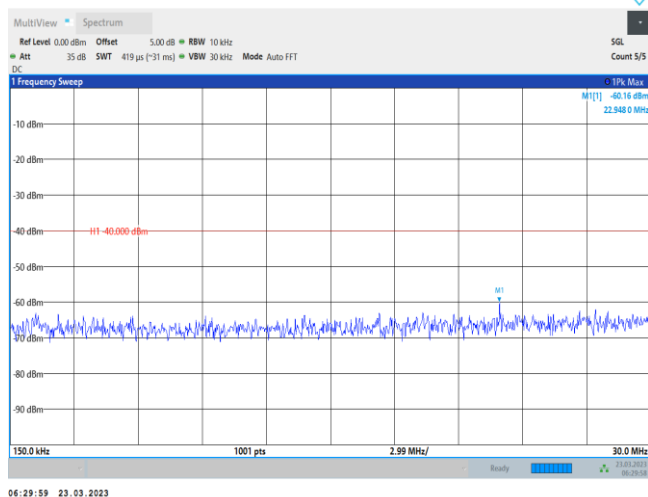
### Conducted Spurious Emission

#### Test Graphs

48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.009~0.15MHz



48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.15~30MHz



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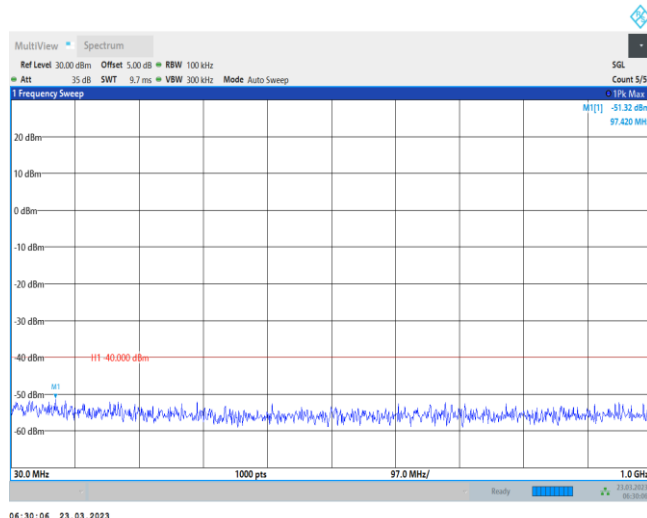
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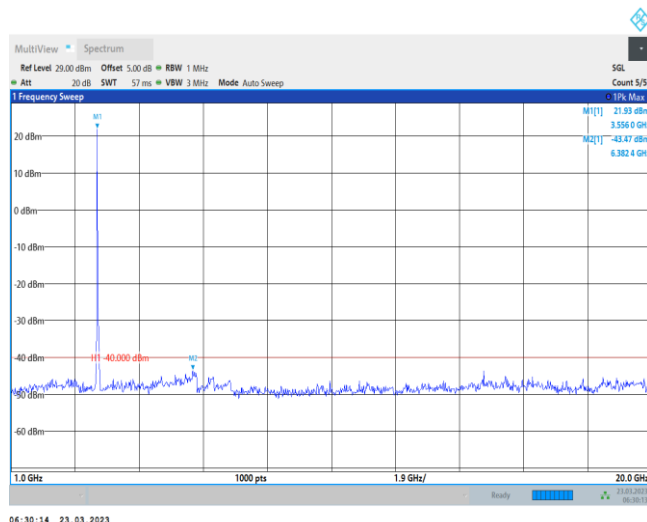
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### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-30~1000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-1000~20000MHz



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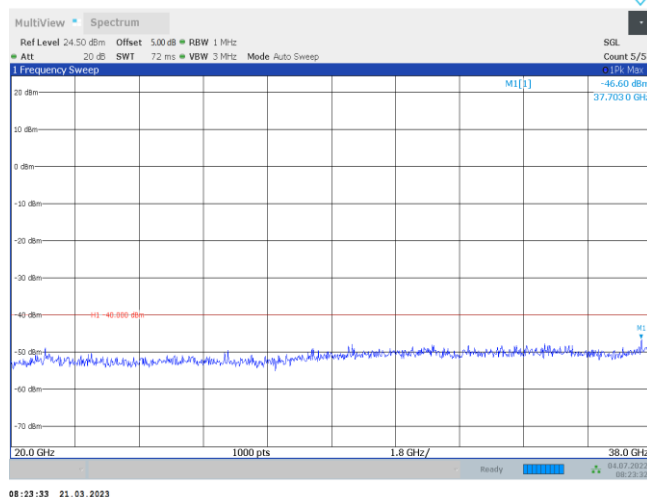
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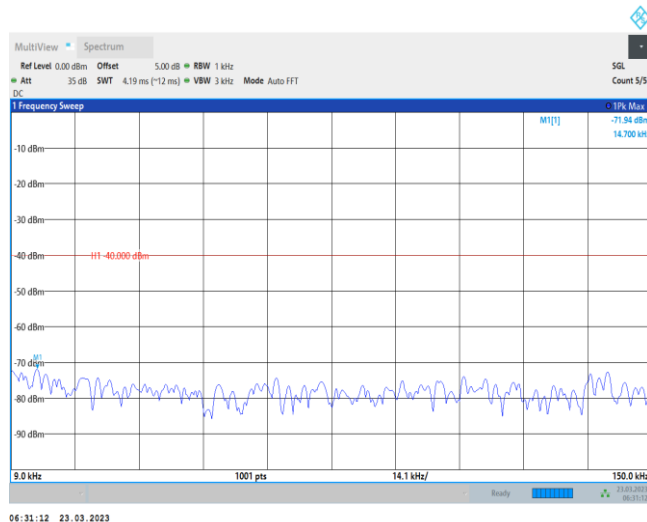
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### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-20000~38000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.009~0.15MHz



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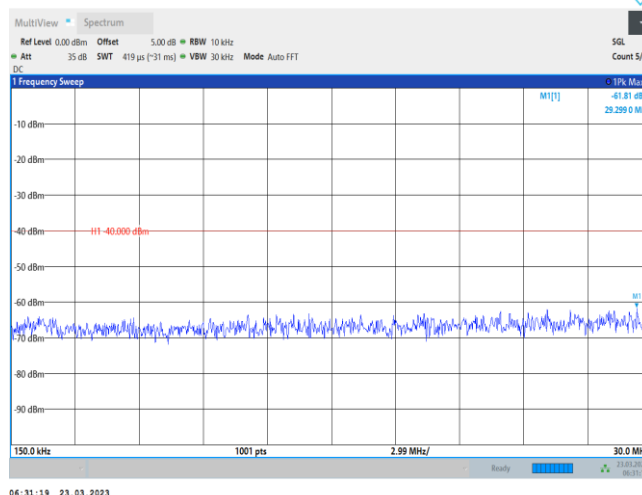
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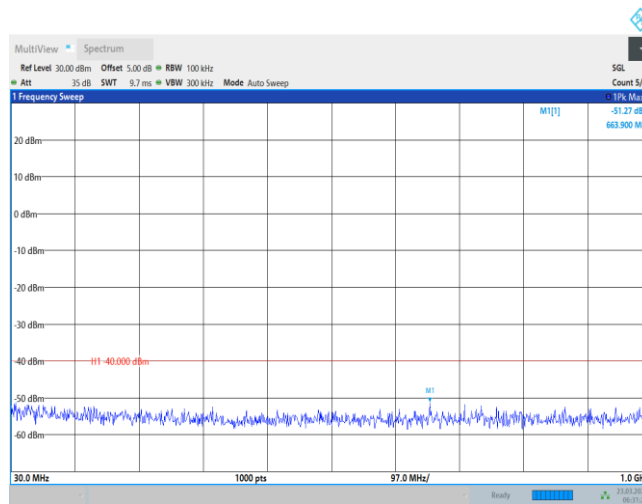
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### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.15~30MHz



06:31:19 23.03.2023

### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-30~1000MHz



06:31:27 23.03.2023



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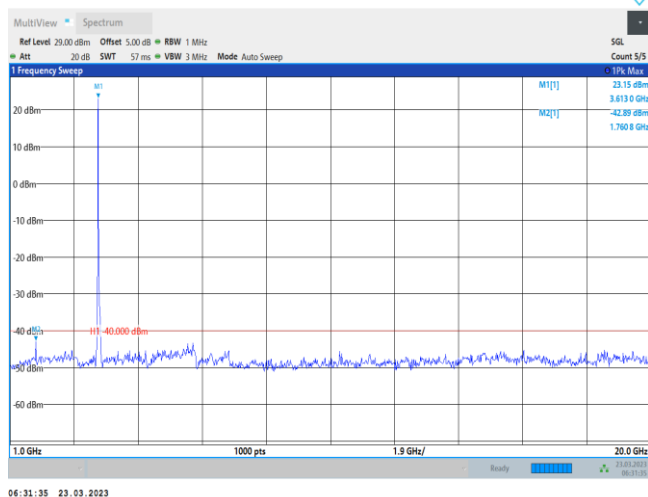


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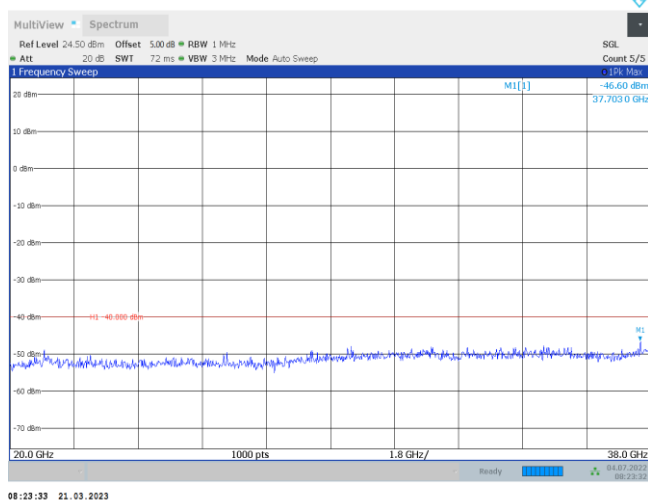
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### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-1000~20000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-20000~38000MHz



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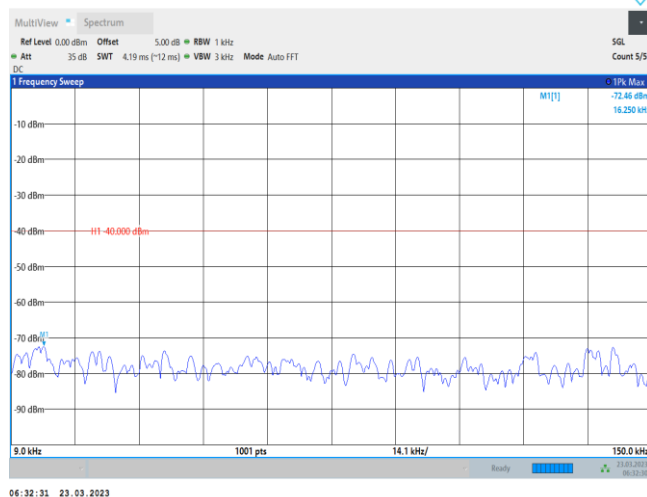
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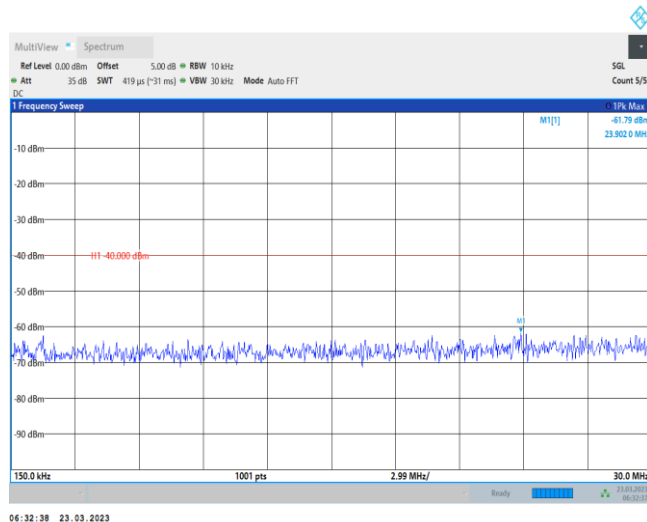
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### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-0.009~0.15MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-0.15~30MHz



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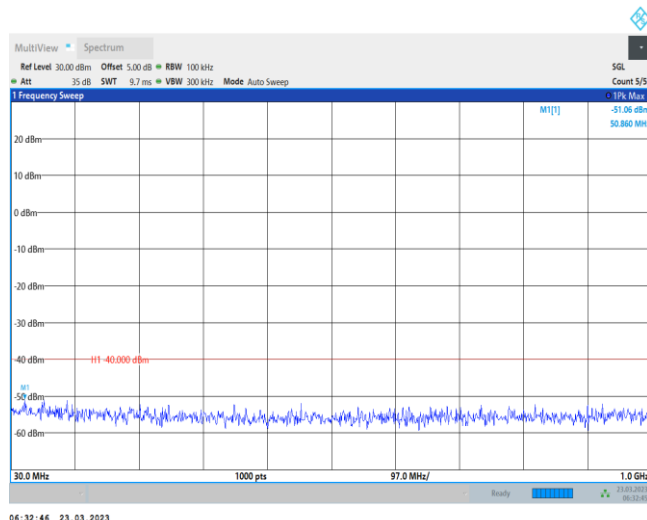
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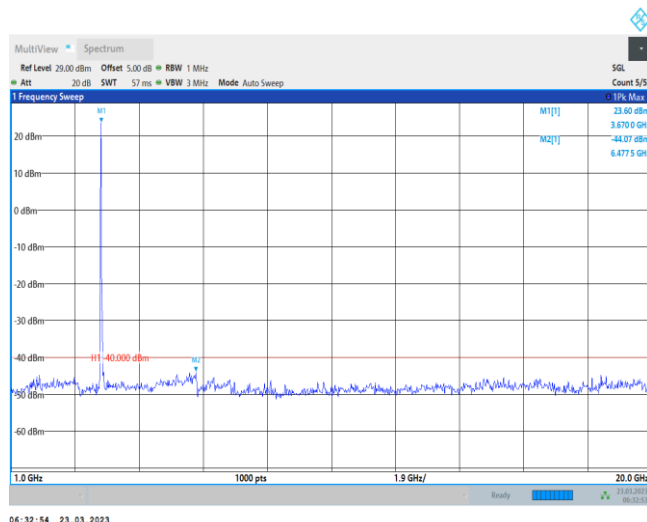


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### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-30~1000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-1000~20000MHz



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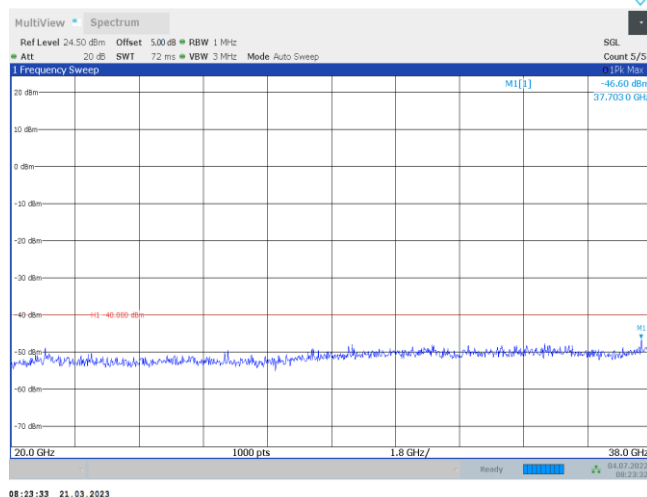
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-20000~38000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band48CA 3550-3700\_ TM1**

**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7428.625	38.78	-42.90	36.48	-62.90	-40.00	22.90	245	92	Horizontal
2	8134.725	34.73	-41.62	37.06	-65.09	-40.00	25.09	136	301	Horizontal
3	9126.6	31.85	-40.29	38.29	-65.41	-40.00	25.41	256	6	Horizontal
4	11201.2	26.96	-36.61	39.11	-65.80	-40.00	25.80	144	227	Horizontal
5	12816.95	25.70	-36.66	39.65	-66.58	-40.00	26.58	185	316	Horizontal
6	15077.275	23.07	-34.47	39.12	-67.54	-40.00	27.54	196	92	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6931.25	48.28	-43.62	36.00	-54.60	-40.00	14.60	248	4	Vertical
2	7187.7	39.74	-43.62	36.57	-62.57	-40.00	22.57	184	318	Vertical
3	8401.525	37.08	-41.38	37.33	-62.22	-40.00	22.22	166	123	Vertical
4	9494.6	33.54	-39.96	38.47	-63.21	-40.00	23.21	291	197	Vertical
5	11145.425	26.94	-37.23	39.10	-66.45	-40.00	26.45	154	357	Vertical
6	12851.45	25.74	-36.75	39.68	-66.59	-40.00	26.59	177	272	Vertical



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Test Band = LTE Band48CA 3550-3700\_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7619.525	37.82	-42.78	36.43	-63.79	-40.00	23.79	142	168	Horizontal
2	8349.2	35.13	-41.62	37.27	-64.49	-40.00	24.49	211	138	Horizontal
3	8605.075	34.61	-40.91	37.76	-63.80	-40.00	23.80	230	0	Horizontal
4	9472.75	33.68	-39.95	38.47	-63.06	-40.00	23.06	302	240	Horizontal
5	10697.5	26.97	-37.50	39.14	-66.66	-40.00	26.66	145	0	Horizontal
6	12835.925	25.69	-36.71	39.67	-66.61	-40.00	26.61	188	32	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7181.375	39.02	-43.62	36.55	-63.31	-40.00	23.31	111	184	Vertical
2	8137.025	34.20	-41.64	37.06	-65.64	-40.00	25.64	145	122	Vertical
3	8950.075	34.64	-40.89	38.17	-63.34	-40.00	23.34	163	79	Vertical
4	10376.075	28.26	-38.78	38.85	-66.93	-40.00	26.93	291	357	Vertical
5	11451.325	25.44	-37.00	39.05	-67.76	-40.00	27.76	187	0	Vertical
6	13846.775	25.00	-35.93	40.00	-66.19	-40.00	26.19	140	122	Vertical



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**Test Band = LTE Band48CA 3550-3700\_ TM1**

**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7441.275	38.50	-42.95	36.47	-63.24	-40.00	23.24	214	214	Horizontal
2	8595.3	34.44	-40.93	37.74	-64.01	-40.00	24.01	133	214	Horizontal
3	9417.55	33.50	-39.93	38.49	-63.20	-40.00	23.20	259	109	Horizontal
4	11145.425	27.34	-37.23	39.10	-66.05	-40.00	26.05	148	140	Horizontal
5	12811.2	25.99	-36.65	39.64	-66.28	-40.00	26.28	185	80	Horizontal
6	14500.55	23.03	-34.24	40.01	-66.46	-40.00	26.46	174	125	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7416.55	38.23	-42.85	36.48	-63.40	-40.00	23.40	247	212	Vertical
2	7787.425	37.87	-42.63	36.76	-63.26	-40.00	23.26	136	331	Vertical
3	8946.05	34.59	-40.89	38.17	-63.39	-40.00	23.39	261	8	Vertical
4	9993.7	29.67	-39.37	38.48	-66.48	-40.00	26.48	145	318	Vertical
5	11435.8	26.02	-37.15	39.07	-67.32	-40.00	27.32	185	256	Vertical
6	14335.525	23.62	-35.58	40.13	-67.09	-40.00	27.09	192	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	VH	NT	0.10	0.000146	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	VL	NT	0.80	0.001171	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	VN	NT	0.50	0.000732	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	50	1.40	0.002050	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	40	0.80	0.001171	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	30	-1.20	-0.001757	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	20	-1.50	-0.002196	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	10	1.90	0.002782	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	0	-1.50	-0.002196	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	-10	1.50	0.002196	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	-20	1.30	0.001903	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	-30	1.20	0.001757	PASS

---End of Attachment---



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