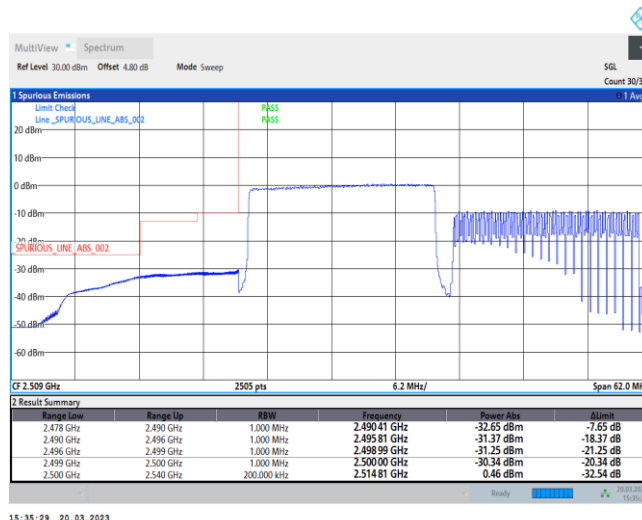
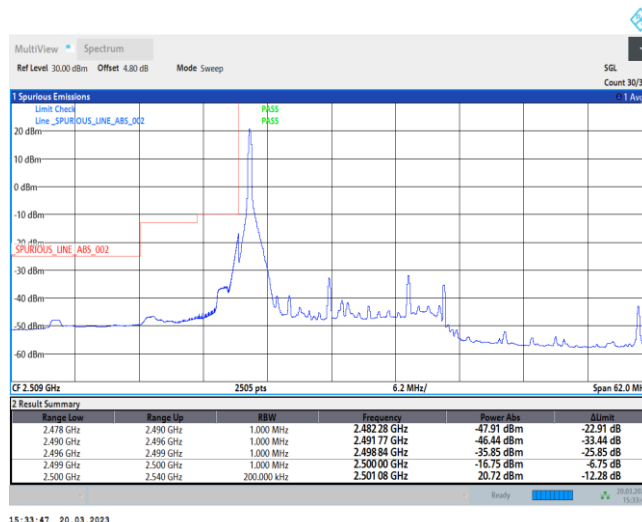


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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



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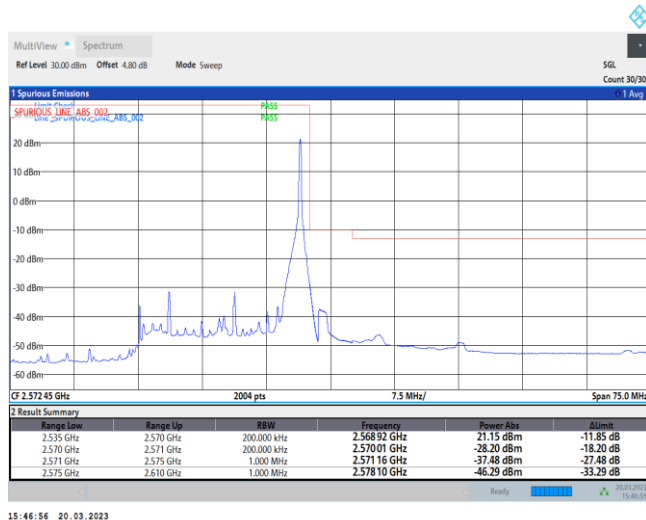
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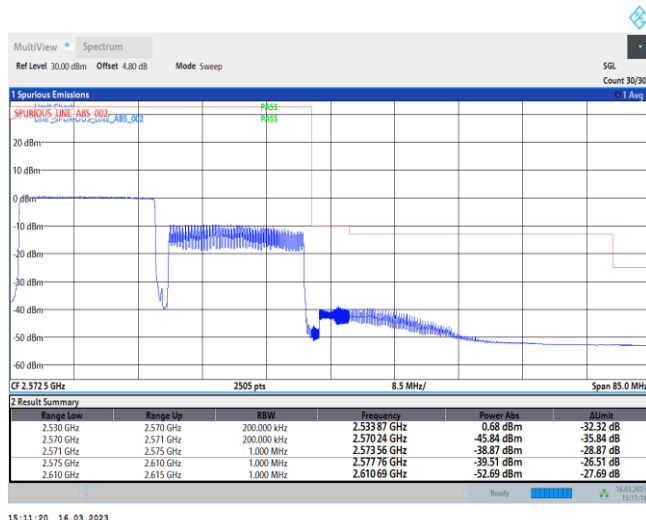
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



15:46:56 20.03.2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



15:11:20 16.03.2023



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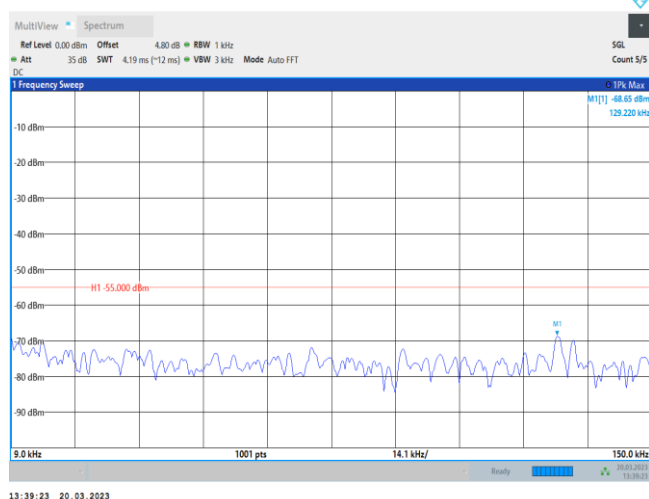
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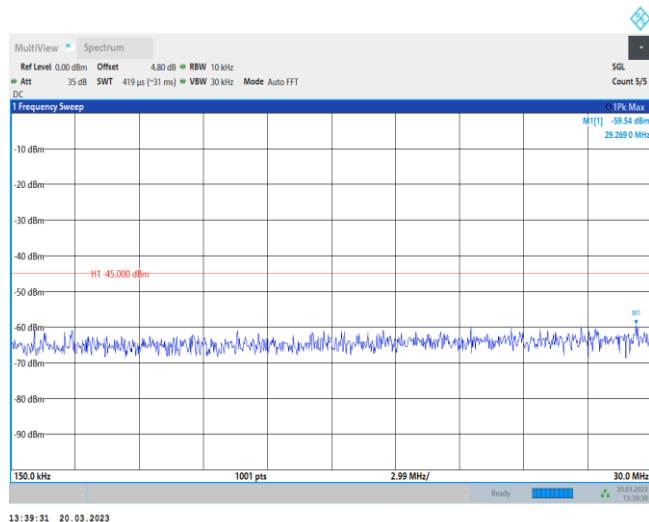
Conducted Spurious Emission

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



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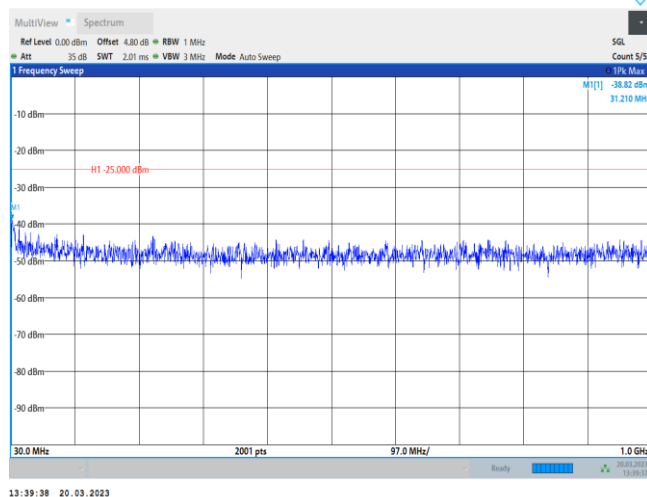
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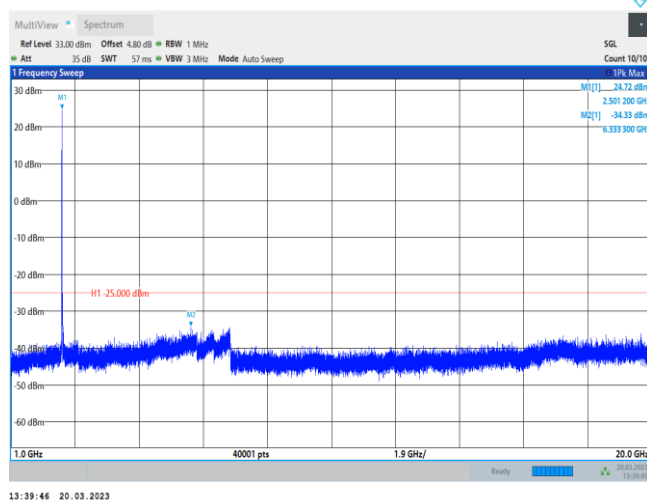
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



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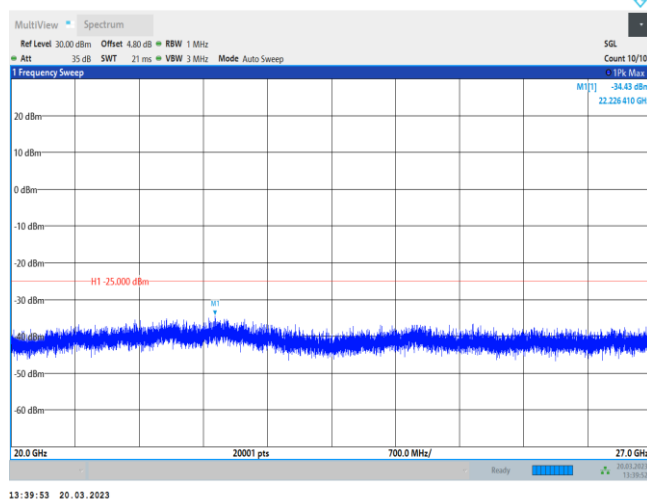
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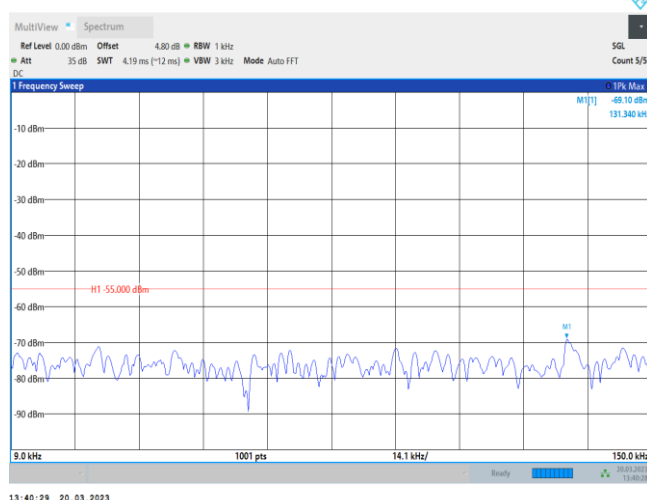
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



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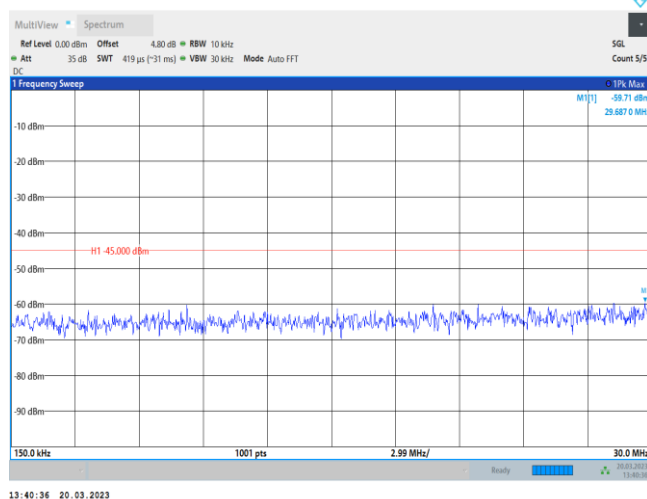
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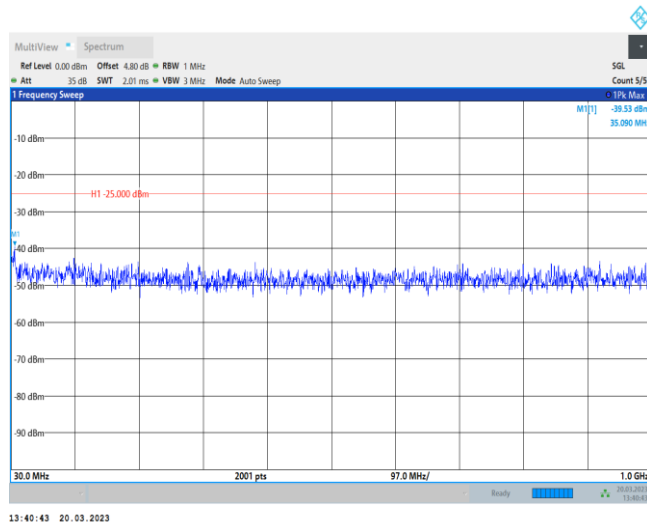
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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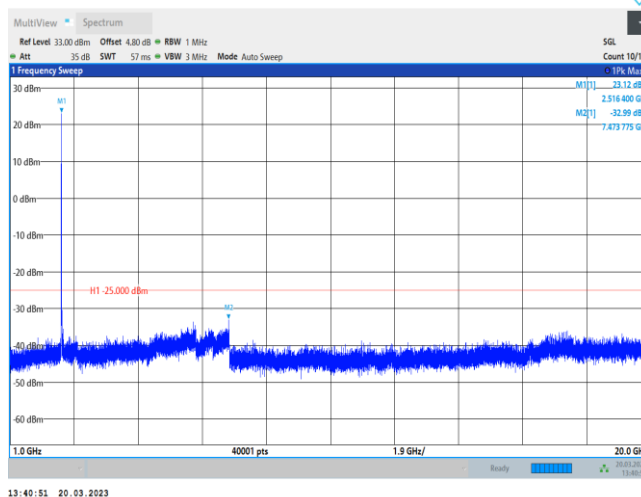
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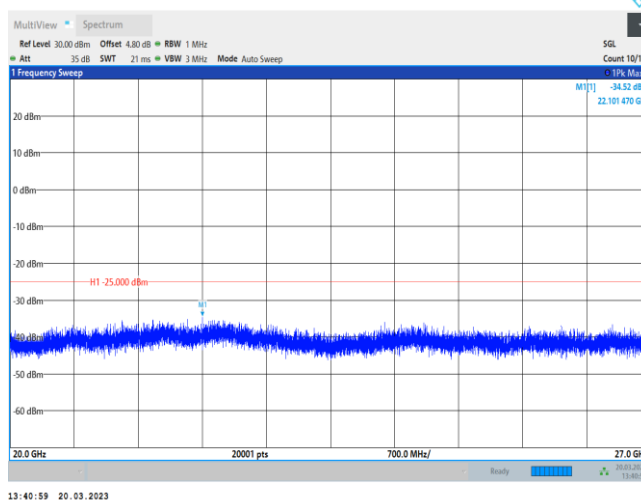
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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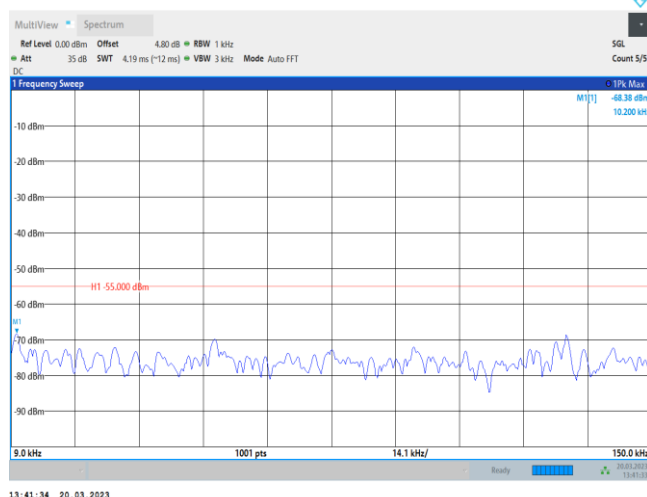
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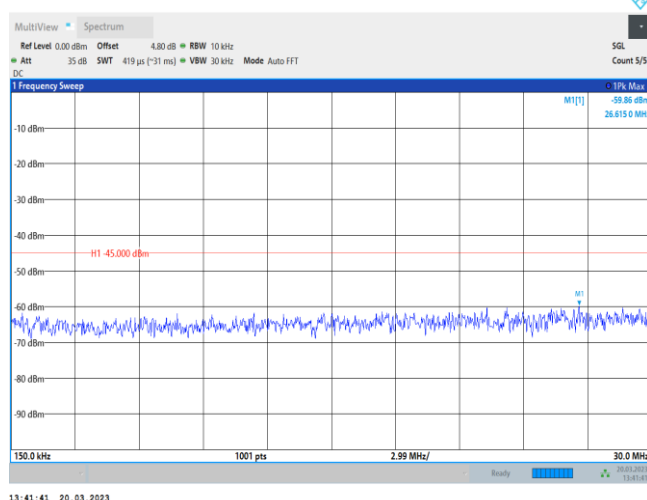
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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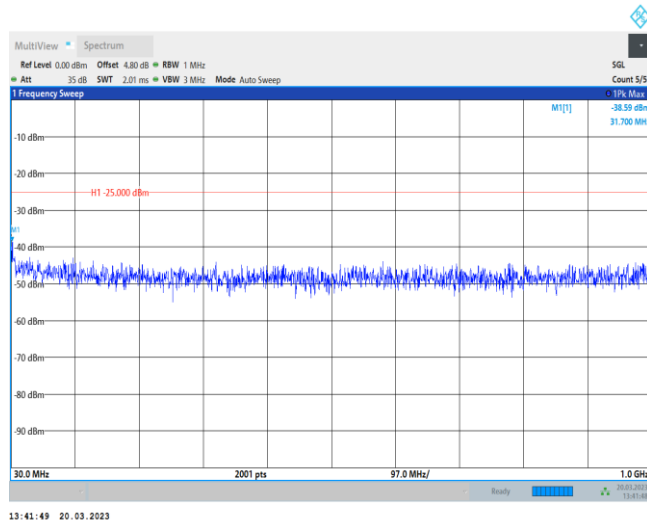
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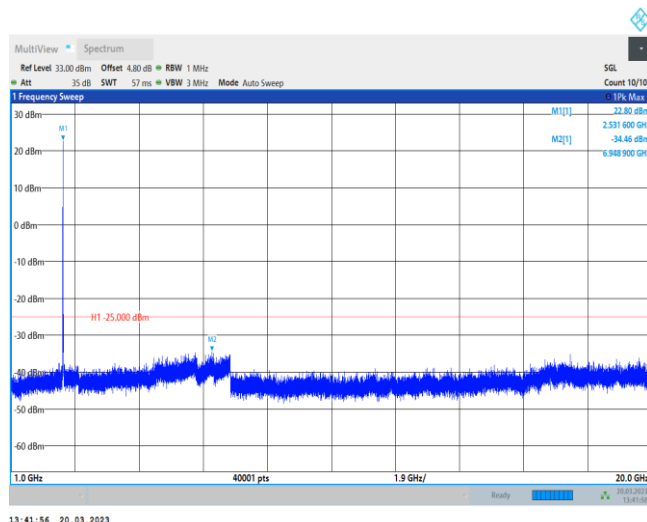
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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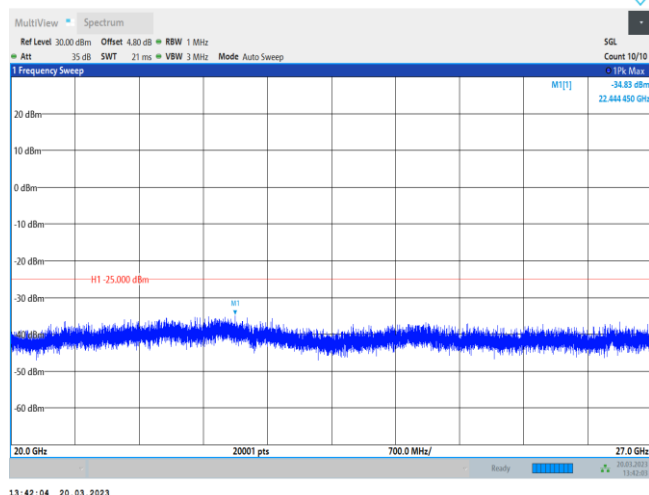
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Field Strength of Spurious Radiation

Test Band = LTE Band7C_ 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	5010.75	49.05	-45.61	32.89	-58.94	-25.00	33.94	213	60	Horizontal
2	7516.5	56.99	-43.11	36.43	-44.94	-25.00	19.94	268	16	Horizontal
3	10022.25	39.75	-39.21	38.53	-56.20	-25.00	31.20	175	197	Horizontal
4	12505.4500	32.88	-36.99	39.18	-60.19	-25.00	35.19	169	317	Horizontal
5	15006.5400	30.04	-34.65	39.21	-60.66	-25.00	35.66	225	360	Horizontal
6	17507.6300	32.01	-34.95	39.22	-58.98	-25.00	33.98	182	4	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	5010.75	52.57	-45.61	32.89	-55.42	-25.00	30.42	287	271	Vertical
2	7516.5	63.47	-43.11	36.43	-38.46	-25.00	13.46	132	120	Vertical
3	10022.25	47.50	-39.21	38.53	-48.45	-25.00	23.45	196	105	Vertical
4	12505.4500	32.31	-36.99	39.18	-60.76	-25.00	35.76	224	360	Vertical
5	15006.5400	29.97	-34.65	39.21	-60.73	-25.00	35.73	217	353	Vertical
6	17507.6300	32.22	-34.95	39.22	-58.77	-25.00	33.77	156	121	Vertical



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Test Band = LTE Band7C_ 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	5041.5	48.42	-45.53	32.90	-59.47	-25.00	34.47	228	60	Horizontal
2	7562.25	53.88	-43.01	36.41	-47.98	-25.00	22.98	164	16	Horizontal
3	10064.7600	34.83	-39.16	38.59	-61.00	-25.00	36.00	146	359	Horizontal
4	12580.9500	31.48	-37.49	39.26	-62.01	-25.00	37.01	218	269	Horizontal
5	15097.1400	29.95	-34.94	39.09	-61.16	-25.00	36.16	227	134	Horizontal
6	17613.3300	31.93	-33.34	39.62	-57.05	-25.00	32.05	149	343	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	5041.5	54.49	-45.53	32.90	-53.40	-25.00	28.40	143	299	Vertical
2	7562.25	61.25	-43.01	36.41	-40.61	-25.00	15.61	297	88	Vertical
3	10083	43.48	-39.14	38.62	-52.30	-25.00	27.30	185	103	Vertical
4	12580.9500	31.59	-37.49	39.26	-61.90	-25.00	36.90	256	240	Vertical
5	15097.1400	29.96	-34.94	39.09	-61.15	-25.00	36.15	213	344	Vertical
6	17613.3300	31.34	-33.34	39.62	-57.64	-25.00	32.64	174	165	Vertical



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Test Band = LTE Band7C_ 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	5071.5	50.11	-45.45	32.92	-57.68	-25.00	32.68	245	60	Horizontal
2	7607.25	54.00	-42.94	36.40	-47.80	-25.00	22.80	162	194	Horizontal
3	10143	37.18	-39.28	38.72	-58.64	-25.00	33.64	268	120	Horizontal
4	12656.4500	32.99	-37.08	39.38	-59.97	-25.00	34.97	183	3	Horizontal
5	15187.7400	30.19	-34.04	38.97	-60.15	-25.00	35.15	148	360	Horizontal
6	17719.0300	31.78	-34.15	40.30	-57.33	-25.00	32.33	220	118	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	5071.5	56.02	-45.45	32.92	-51.77	-25.00	26.77	208	282	Vertical
2	7607.25	62.16	-42.94	36.40	-39.64	-25.00	14.64	214	121	Vertical
3	10143	46.34	-39.28	38.72	-49.48	-25.00	24.48	199	106	Vertical
4	12656.4500	31.92	-37.08	39.38	-61.04	-25.00	36.04	258	90	Vertical
5	15187.7400	30.32	-34.04	38.97	-60.02	-25.00	35.02	273	222	Vertical
6	17719.0300	31.71	-34.15	40.30	-57.40	-25.00	32.40	215	225	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
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VH	NT	47.60	0.018851	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VL	NT	57.20	0.022653	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VN	NT	50.00	0.019801	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-30	50.70	0.020078	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-20	49.60	0.019643	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-10	48.50	0.019207	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	0	53.40	0.021148	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	10	41.10	0.016277	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	20	52.20	0.020672	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	30	46.90	0.018574	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	40	65.80	0.026058	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	50	37.50	0.014851	PASS

---End of Attachment---



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