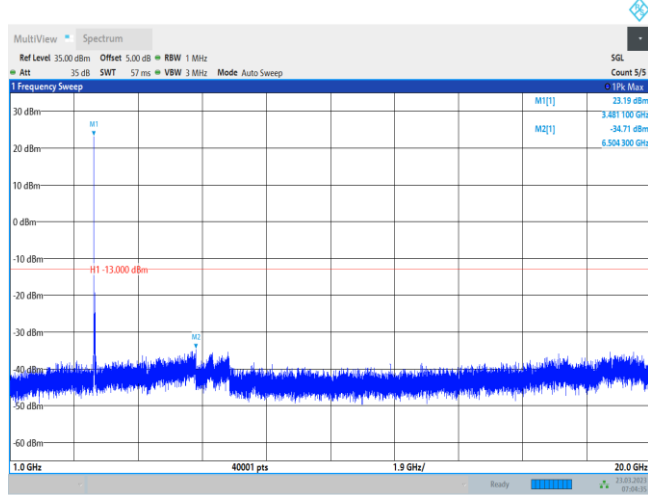
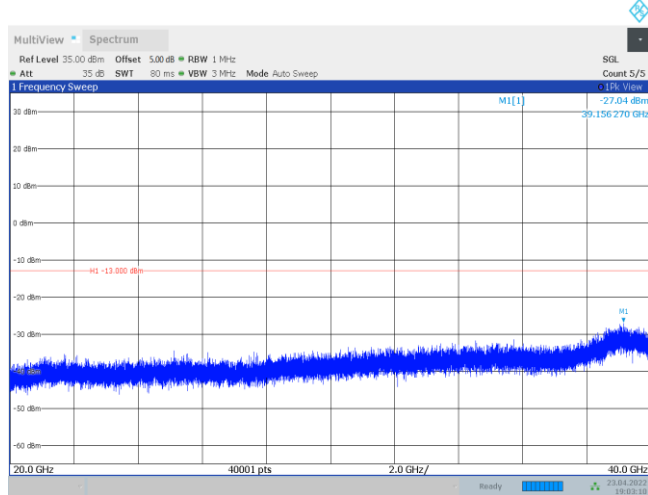


42-42-20MHz-20MHz-QPSK-QPSK-42491-42689-1RB#0-0RB#0-1000~20000MHz



07:04:35 23.03.2023

42-42-20MHz-20MHz-QPSK-QPSK-42491-42689-1RB#0-0RB#0-20000~40000MHz



19:03:10 20.03.2023

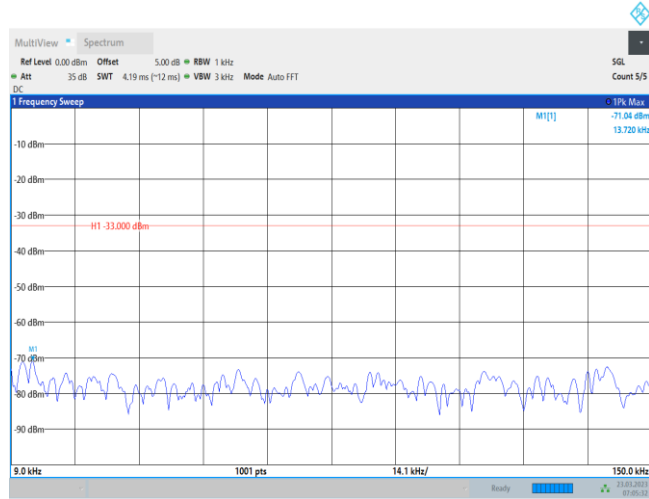


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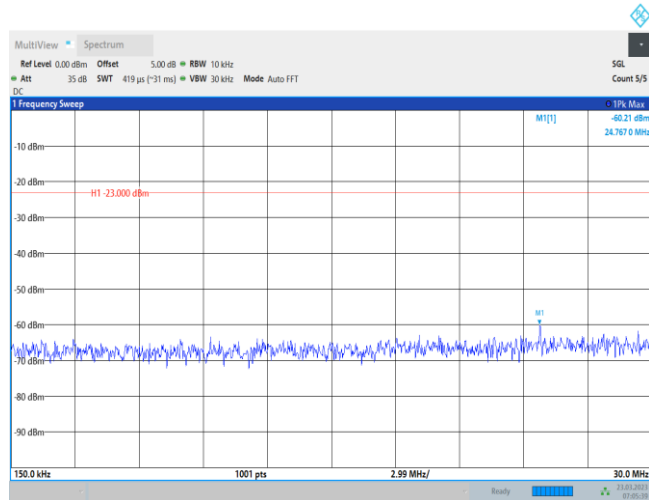
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42-42-20MHz-20MHz-QPSK-QPSK-42792-42990-1RB#0-0RB#0-0.009~0.15MHz



07:05:33 23.03.2023

42-42-20MHz-20MHz-QPSK-QPSK-42792-42990-1RB#0-0RB#0-0.15~30MHz



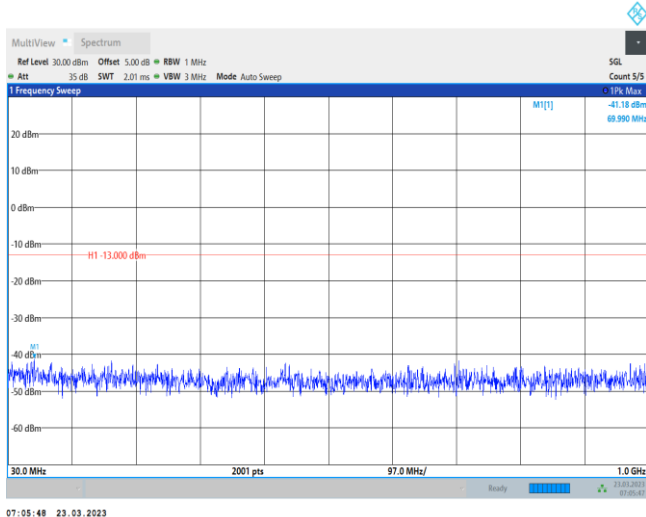
07:05:40 23.03.2023



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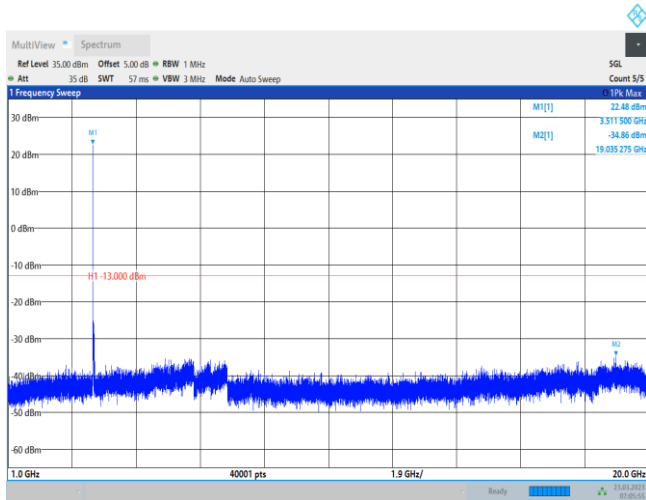
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42-42-20MHz-20MHz-QPSK-QPSK-42792-42990-1RB#0-0RB#0-30~1000MHz



07:05:48 23.03.2023

42-42-20MHz-20MHz-QPSK-QPSK-42792-42990-1RB#0-0RB#0-1000~20000MHz



07:05:56 23.03.2023

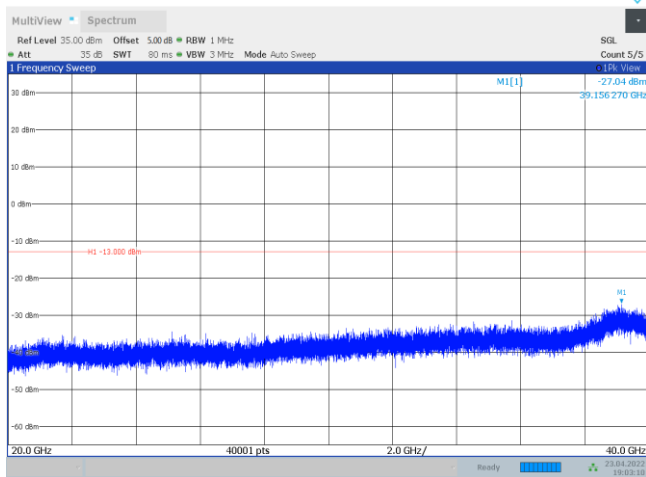


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42-42-20MHz-20MHz-QPSK-QPSK-42792-42990-1RB#0-0RB#0-20000~40000MHz



19:03:10 20.03.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 42C 3450-3550_ 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	4935.6667	42.97	-45.20	32.70	-64.79	-13.00	51.79	143	3	Horizontal
2	6317.5833	42.40	-44.31	34.45	-62.72	-13.00	49.72	268	3	Horizontal
3	6902.1800	40.79	-43.85	35.96	-62.36	-13.00	49.36	195	99	Horizontal
4	10353.2700	34.74	-39.07	38.85	-60.75	-13.00	47.75	205	360	Horizontal
5	13804.3600	31.77	-36.14	39.96	-59.66	-13.00	46.66	193	234	Horizontal
6	17255.4500	33.39	-35.27	38.68	-58.46	-13.00	45.46	224	116	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	4920.5	43.58	-45.16	32.66	-64.18	-13.00	51.18	273	148	Vertical
2	6902.1800	40.80	-43.85	35.96	-62.35	-13.00	49.35	206	180	Vertical
3	9255.25	37.75	-40.18	38.38	-59.31	-13.00	46.31	299	296	Vertical
4	10353.2700	35.19	-39.07	38.85	-60.30	-13.00	47.30	158	116	Vertical
5	13804.3600	32.42	-36.14	39.96	-59.01	-13.00	46.01	167	231	Vertical
6	17255.4500	33.39	-35.27	38.68	-58.46	-13.00	45.46	137	149	Vertical



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Test Band = LTE Band 42C 3450-3550_ 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	5258.25	42.52	-45.00	32.93	-64.81	-13.00	51.81	249	16	Horizontal
2	6982.1800	40.20	-43.32	36.06	-62.33	-13.00	49.33	238	48	Horizontal
3	8646.25	39.34	-41.46	37.83	-59.55	-13.00	46.55	156	276	Horizontal
4	10473.2700	34.15	-38.72	38.93	-60.90	-13.00	47.90	293	48	Horizontal
5	13964.3600	30.95	-35.74	40.11	-59.94	-13.00	46.94	146	185	Horizontal
6	17455.4500	32.07	-35.00	39.05	-59.15	-13.00	46.15	208	310	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	5268.75	42.86	-44.97	32.92	-64.44	-13.00	51.44	287	359	Vertical
2	6982.1800	40.57	-43.32	36.06	-61.96	-13.00	48.96	163	85	Vertical
3	8706.3333	39.51	-41.48	37.93	-59.31	-13.00	46.31	220	261	Vertical
4	10473.2700	34.50	-38.72	38.93	-60.55	-13.00	47.55	152	66	Vertical
5	13964.3600	31.25	-35.74	40.11	-59.64	-13.00	46.64	164	99	Vertical
6	17455.4500	32.49	-35.00	39.05	-58.73	-13.00	45.73	204	148	Vertical



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Test Band = LTE Band 42C 3450-3550_ 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	5487.5	42.61	-44.94	32.90	-64.69	-13.00	51.69	234	129	Horizontal
2	7062.1800	40.20	-43.75	36.24	-62.57	-13.00	49.57	196	147	Horizontal
3	8818.9167	38.95	-40.96	38.09	-59.18	-13.00	46.18	248	192	Horizontal
4	10593.2700	34.47	-38.68	39.05	-60.42	-13.00	47.42	167	360	Horizontal
5	14124.3600	29.70	-35.49	40.20	-60.86	-13.00	47.86	218	82	Horizontal
6	17655.4500	31.24	-33.30	39.89	-57.43	-13.00	44.43	206	212	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	4957.8333	43.09	-45.25	32.76	-64.66	-13.00	51.66	157	165	Vertical
2	7062.1800	40.67	-43.75	36.24	-62.10	-13.00	49.10	248	360	Vertical
3	9005	38.52	-40.70	38.20	-59.24	-13.00	46.24	165	144	Vertical
4	10593.2700	34.17	-38.68	39.05	-60.72	-13.00	47.72	298	233	Vertical
5	14124.3600	30.05	-35.49	40.20	-60.51	-13.00	47.51	153	360	Vertical
6	17655.4500	31.18	-33.30	39.89	-57.49	-13.00	44.49	233	148	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
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	VH	NT	31.50	0.008536	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	VL	NT	37.10	0.010054	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	VN	NT	36.90	0.010000	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	50	40.60	0.011002	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	40	44.00	0.011924	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	30	44.60	0.012086	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	20	40.70	0.011030	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	10	50.80	0.013767	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	0	45.70	0.012384	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	-10	43.50	0.011788	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	-20	38.10	0.010325	PASS
42-42	20MHz-20MHz	QPSK -QPSK	42491-42689	100RB#0-100RB#0	NV	-30	40.80	0.011057	PASS

---End of Attachment---



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Wireless Laboratory

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