

Appendix B.16

LTE Band 38C



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	24.31	24.71	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.29	22.69	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	24.24	24.64	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.25	22.65	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	24.18	24.58	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.23	22.63	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	23.27	23.67	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.3	21.7	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	23.2	23.6	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.28	21.68	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	23.13	23.53	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.36	21.76	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	21.82	22.22	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	21.28	21.68	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	21.82	22.22	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	21.29	21.69	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	21.74	22.14	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	21.36	21.76	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	22.01	22.41	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	23.9	24.3	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	22.01	22.41	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.92	24.32	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	22	22.4	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.9	24.3	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	21.08	21.48	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	22.9	23.3	33	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	21.03	21.43	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	22.89	23.29	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	21.28	21.68	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	22.85	23.25	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	21.2	21.6	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	21.51	21.91	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	20.98	21.38	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	21.47	21.87	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	21.2	21.6	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	21.46	21.86	33	PASS



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Peak-to-Average Ratio (CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	10.02	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	10.04	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	10.08	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	10.16	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	10.16	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	10.20	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.24	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.28	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.24	13	PASS



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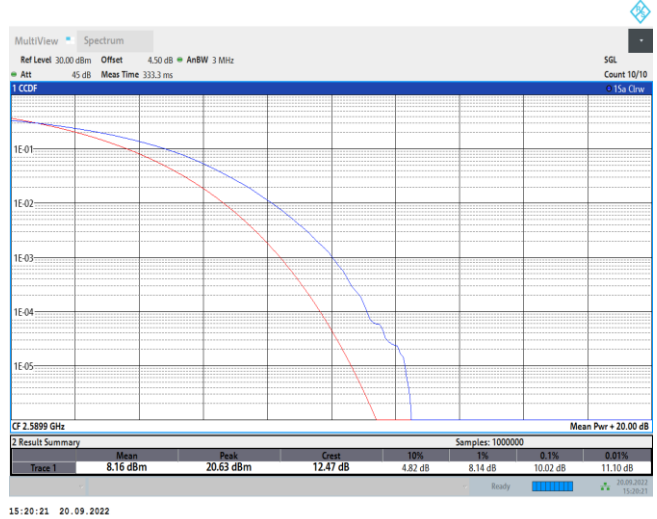
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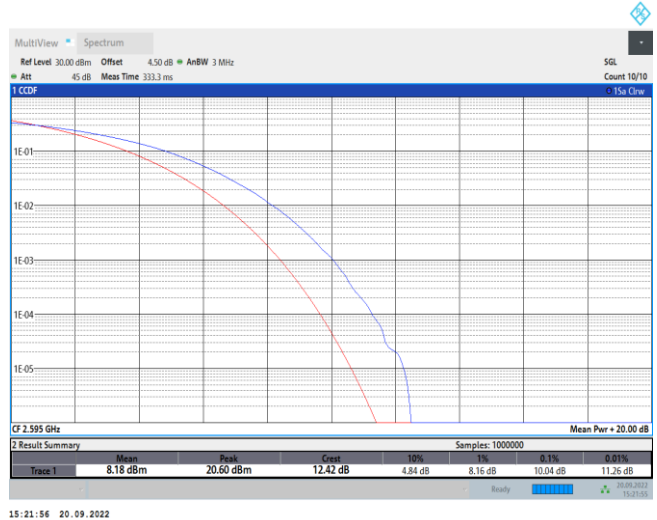
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Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0

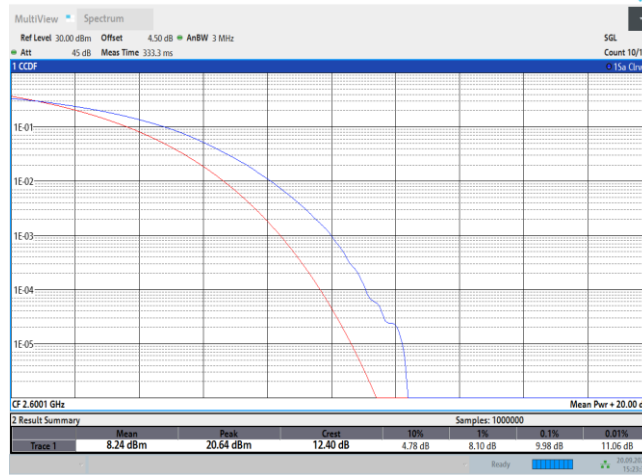


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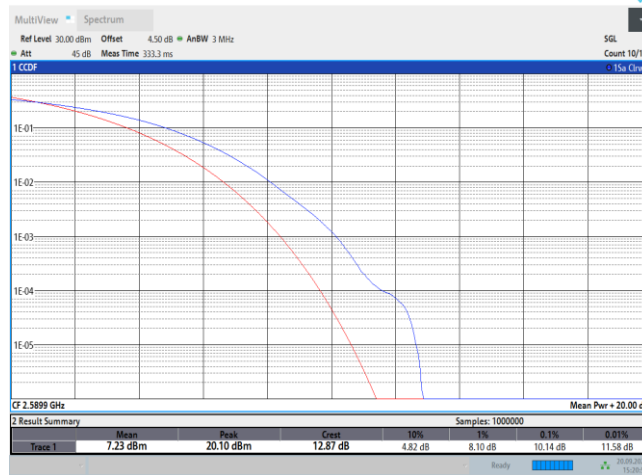
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



15:23:30 20.09.2022

38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



15:20:53 20.09.2022



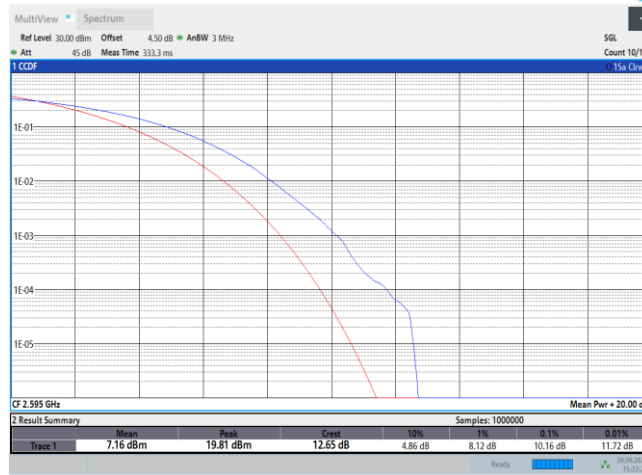
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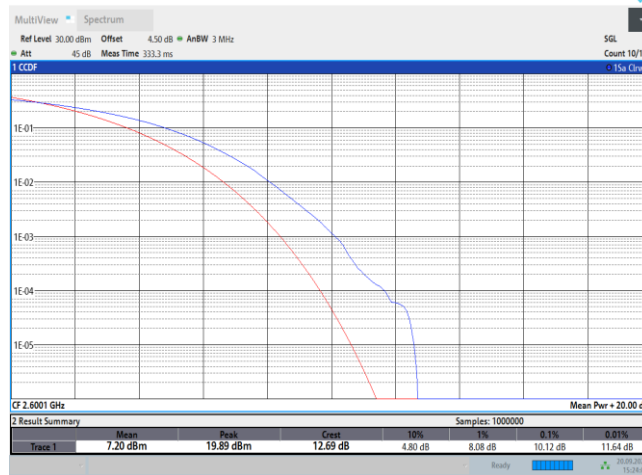
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



15:22:27 20.09.2022

38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



15:24:01 20.09.2022



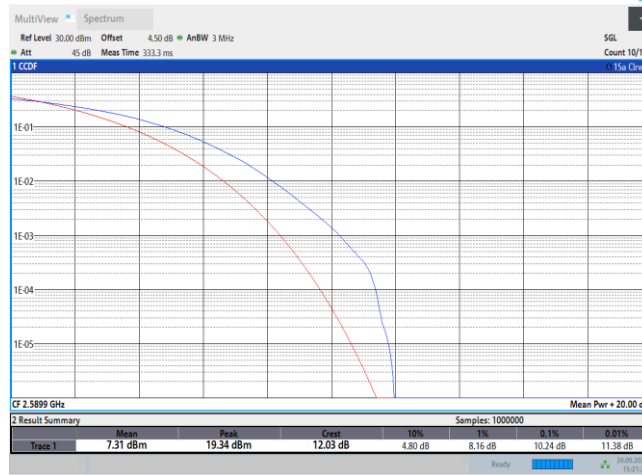
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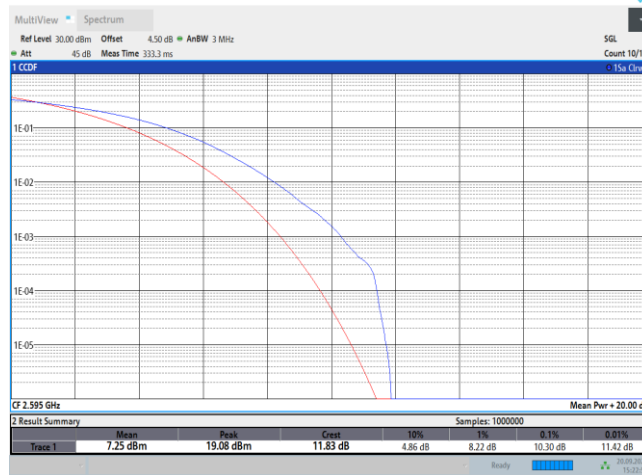
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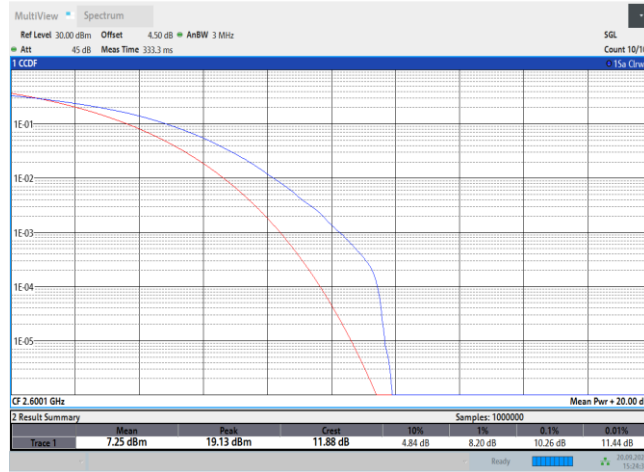


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38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



15:24:33 20.09.2022



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	PASS



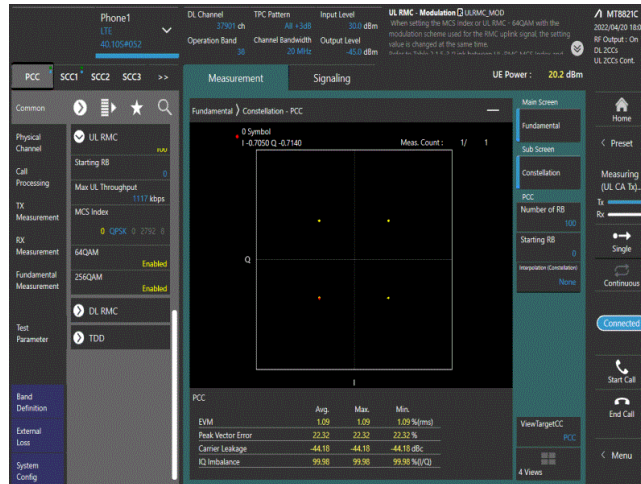
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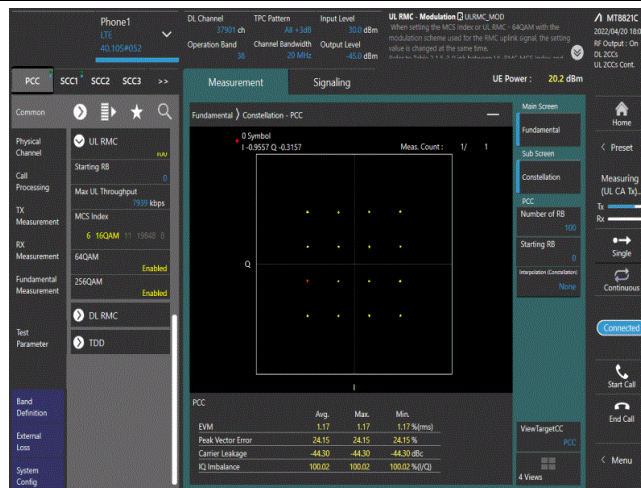
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



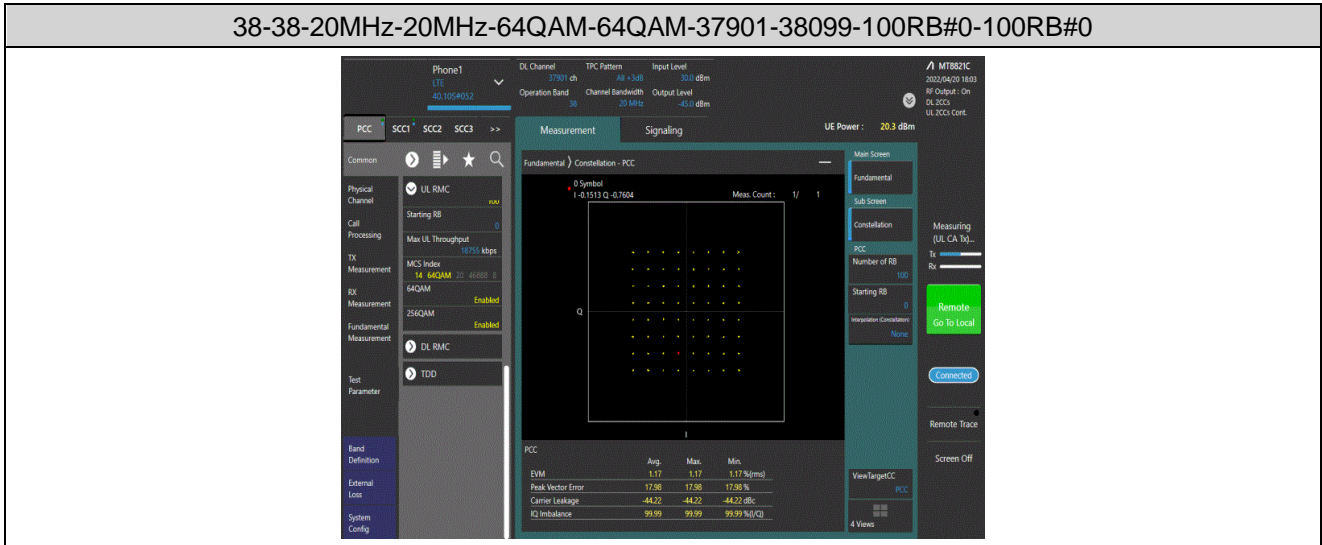
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	28.28	30.84	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.231	30.54	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.232	30.66	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.267	30.96	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.232	30.78	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.261	30.36	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.199	30.06	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.224	30.06	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.217	30.24	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.596	40.16	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.513	40.08	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.72	40.24	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.597	40.24	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.66	40.16	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.646	40.16	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.564	40.08	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.553	40.40	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.558	40.24	PASS



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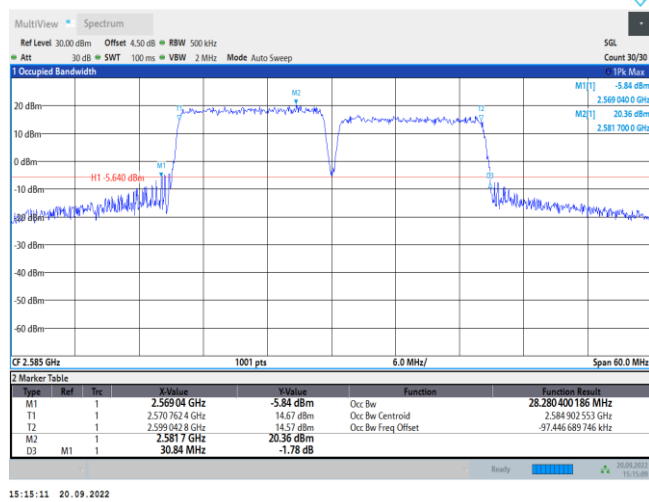
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Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0



38-38-15MHz-15MHz-QPSK-QPSK-37925-38075-75RB#0-75RB#0

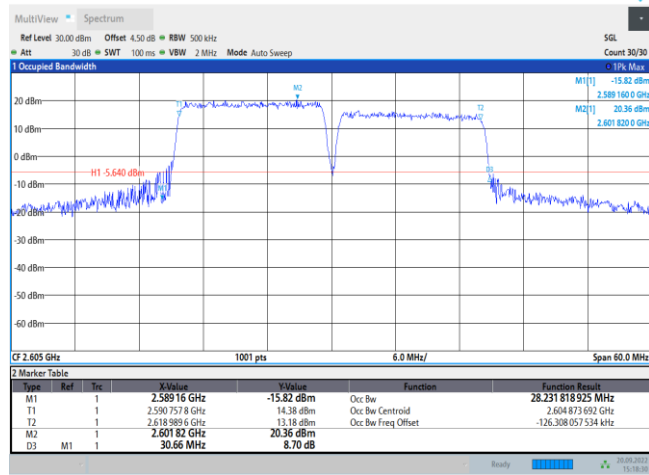


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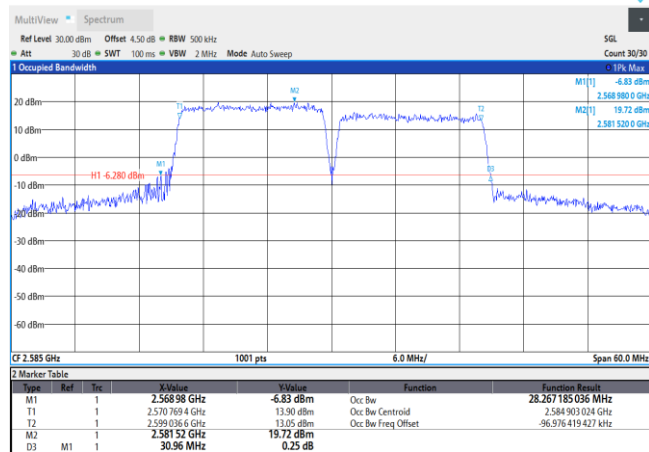
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



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38-38-15MHz-15MHz-16QAM-16QAM-37825-37975-75RB#0-75RB#0



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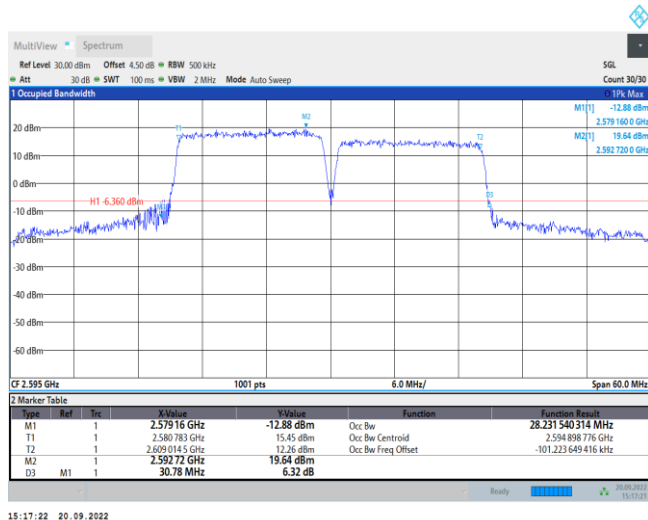
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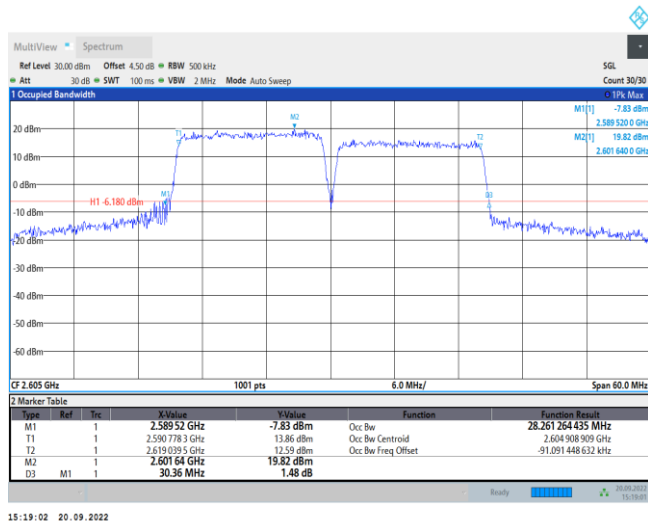
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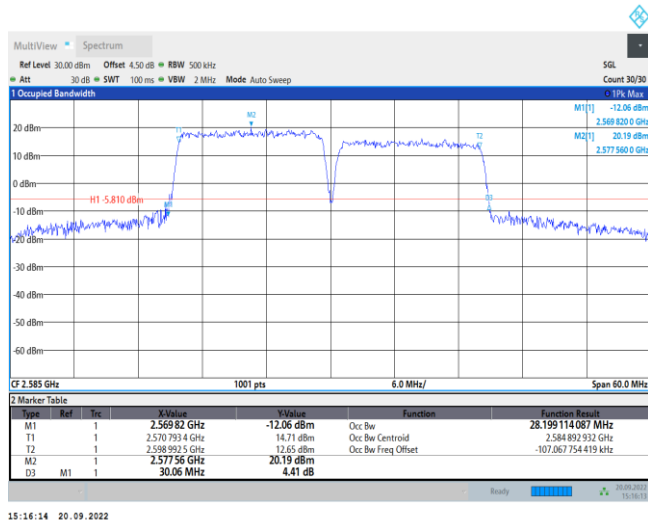


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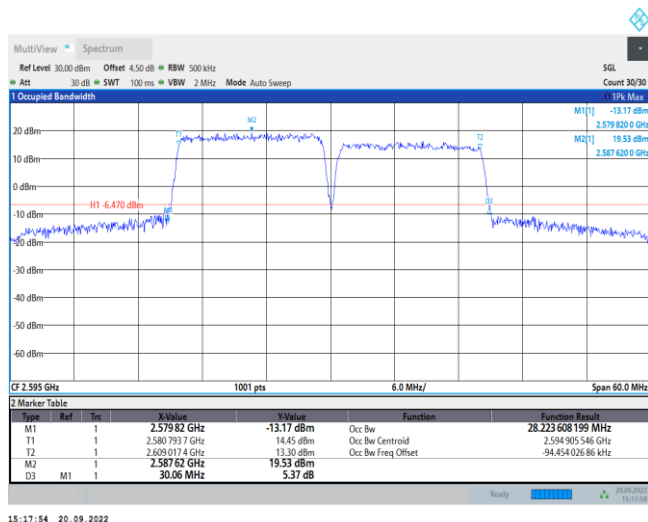
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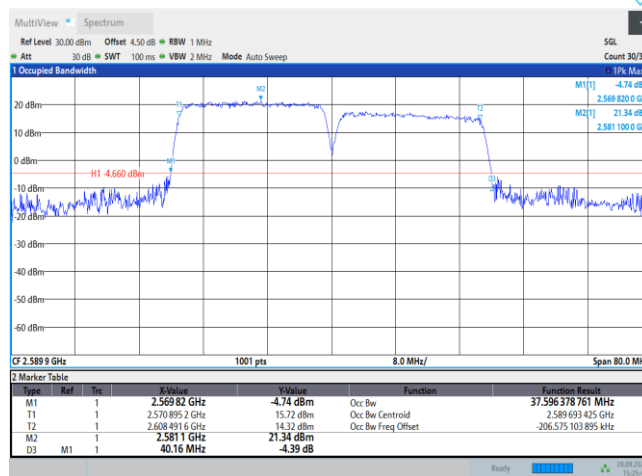
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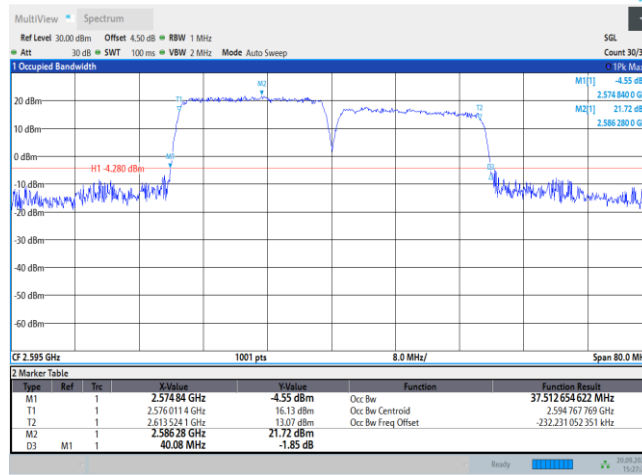
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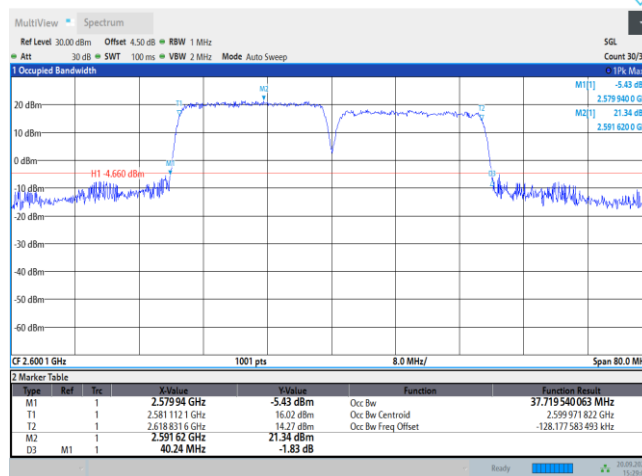
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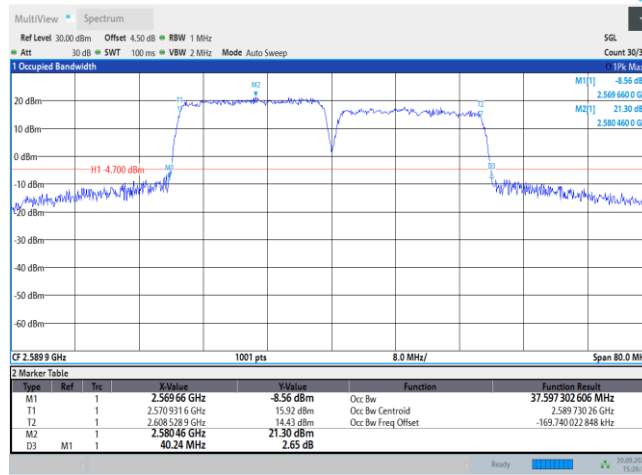
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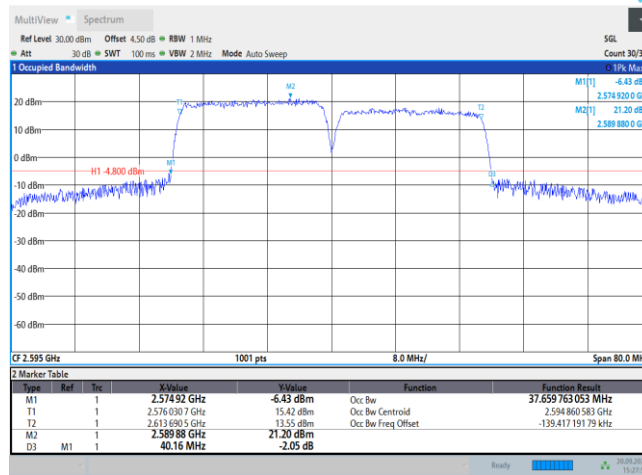
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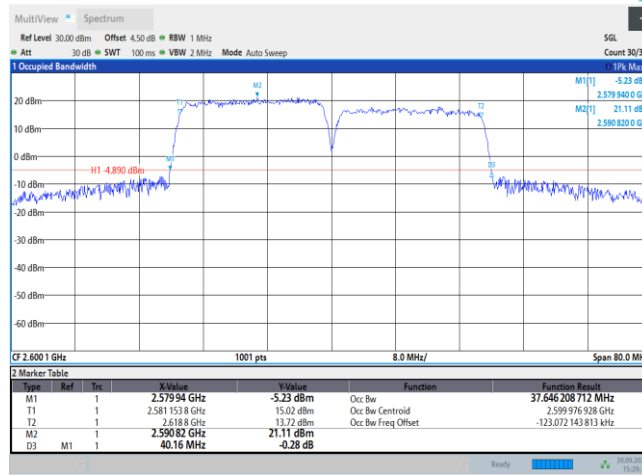


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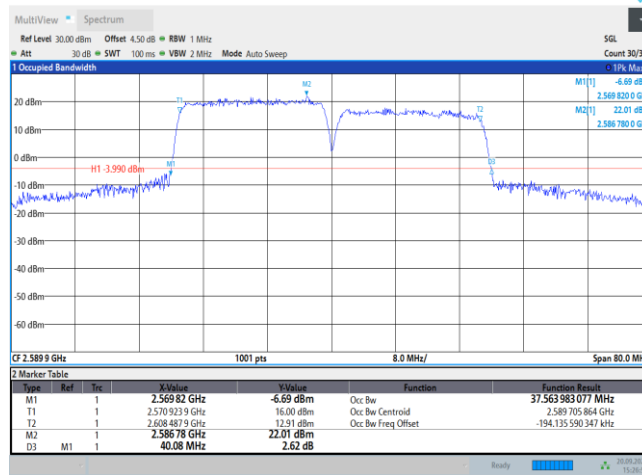
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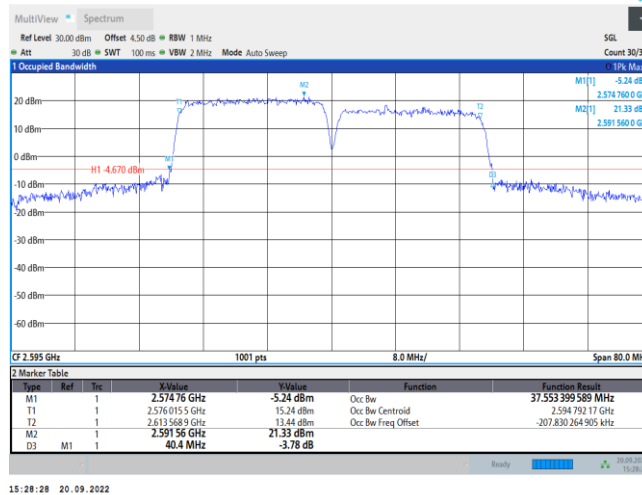
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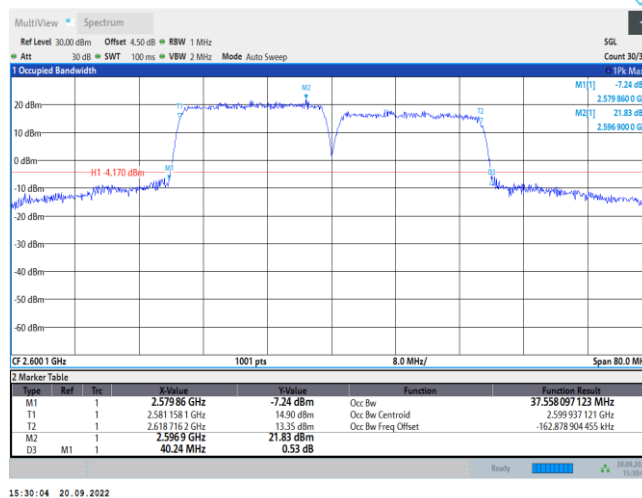
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



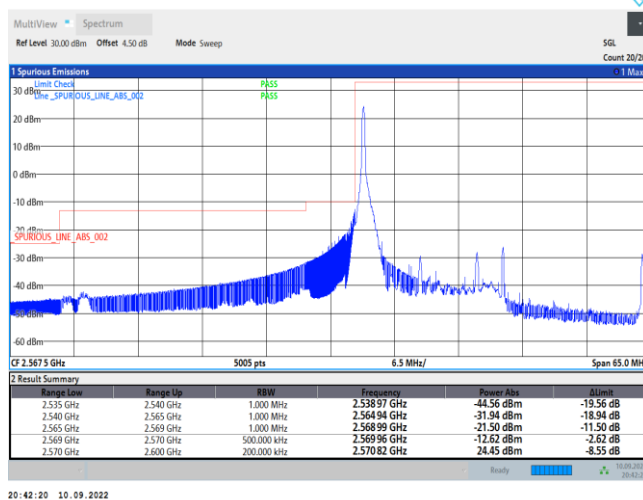
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Band Edge

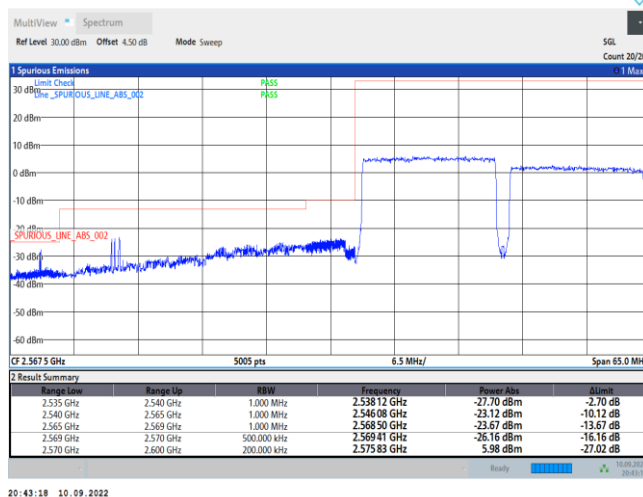
Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-1RB#0-0RB#0



20:42:20 10.09.2022

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0



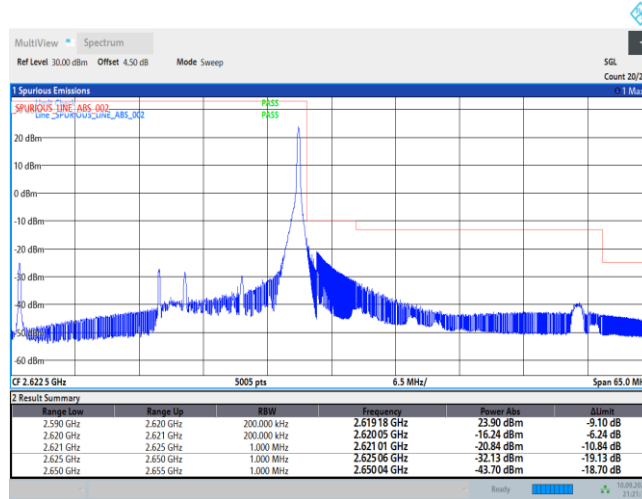
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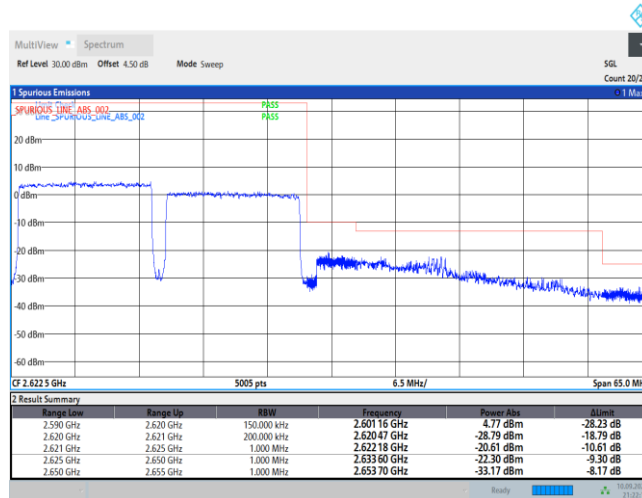
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



21:21:20 10.09.2022

38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



21:22:17 10.09.2022



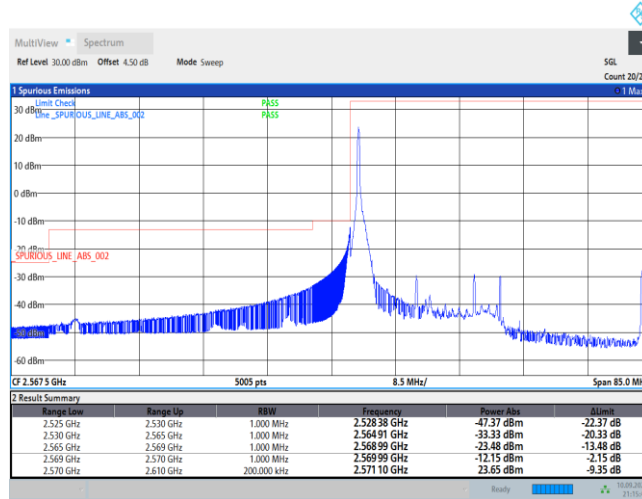
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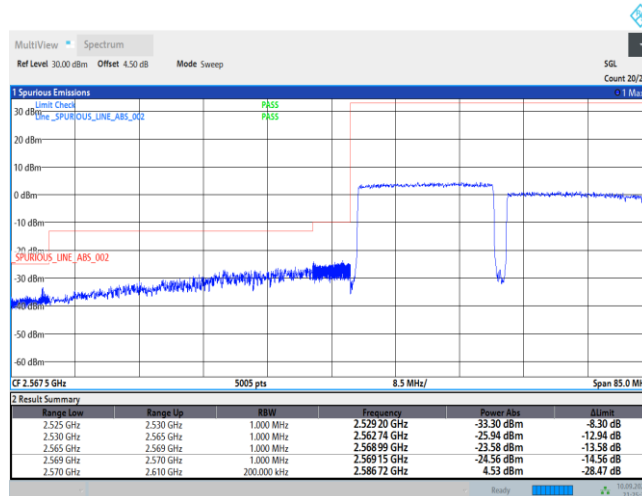
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



21:15:48 10.09.2022

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



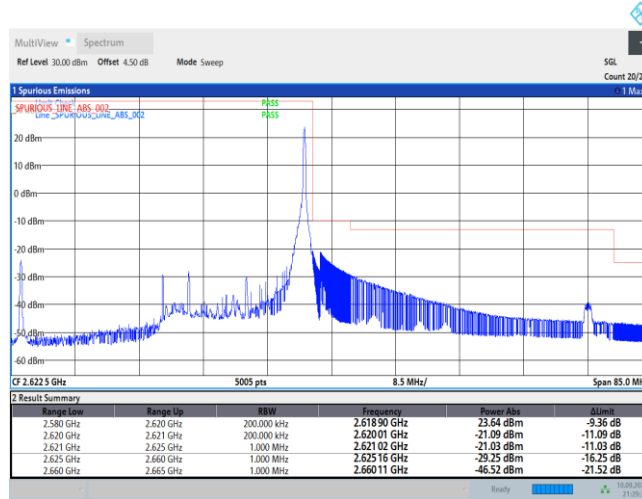
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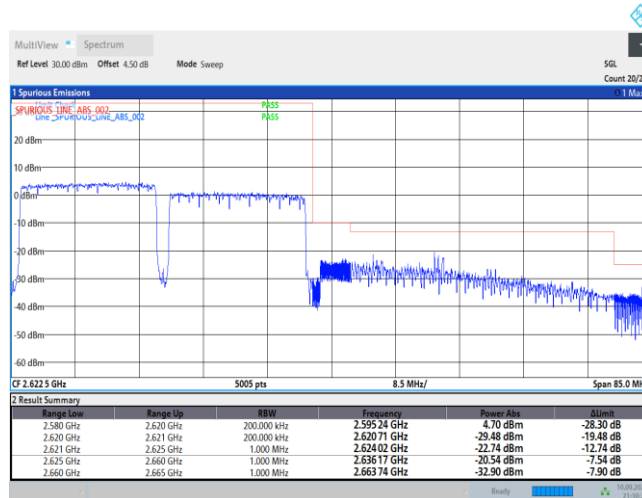
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



21:29:31 10.09.2022

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



21:30:29 10.09.2022



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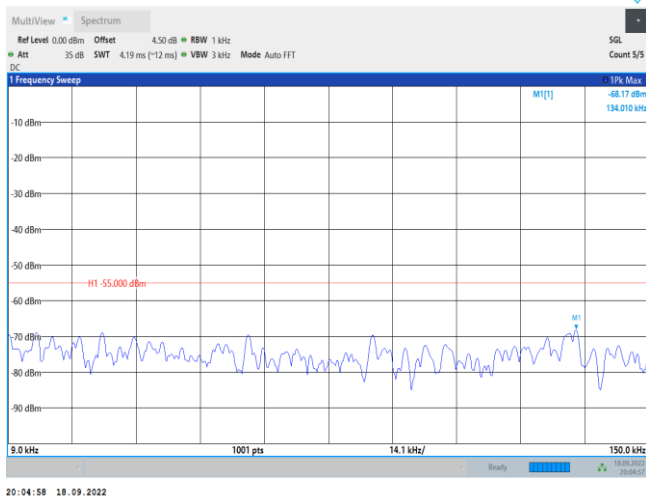
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Conducted Spurious Emission

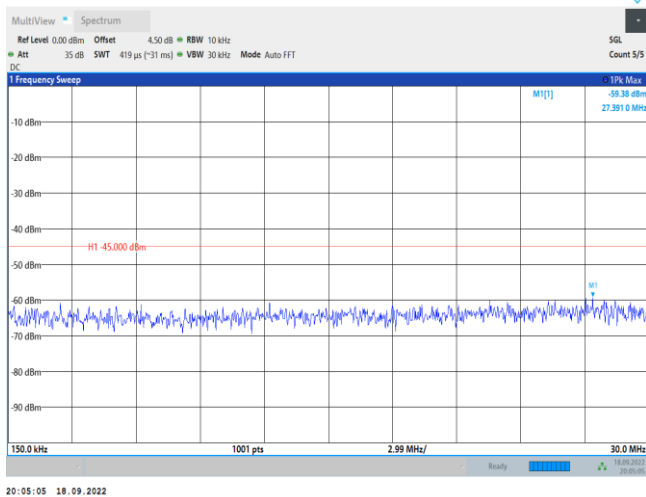
Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.009~0.15MHz



20:04:58 18.09.2022

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.15~30MHz



20:05:05 18.09.2022



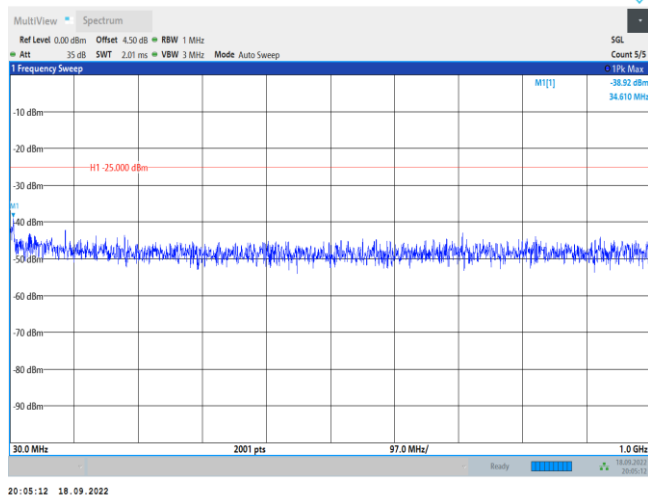
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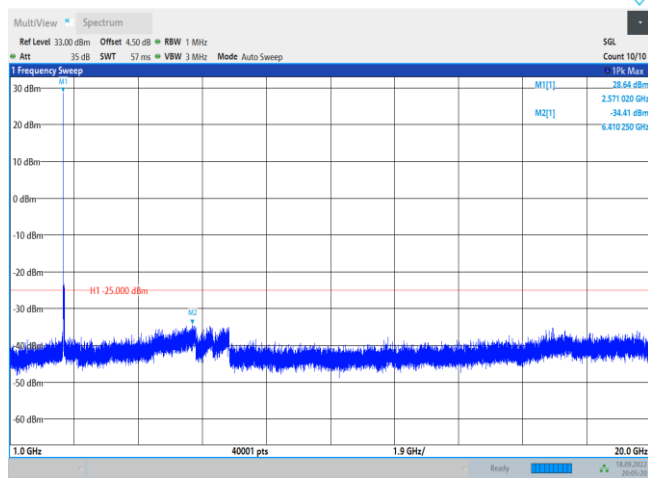
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



20:05:12 18.09.2022

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-1000~20000MHz



20:05:20 18.09.2022

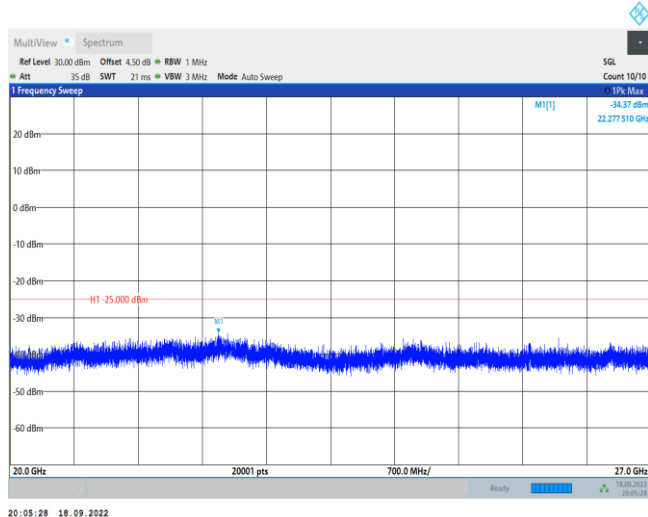


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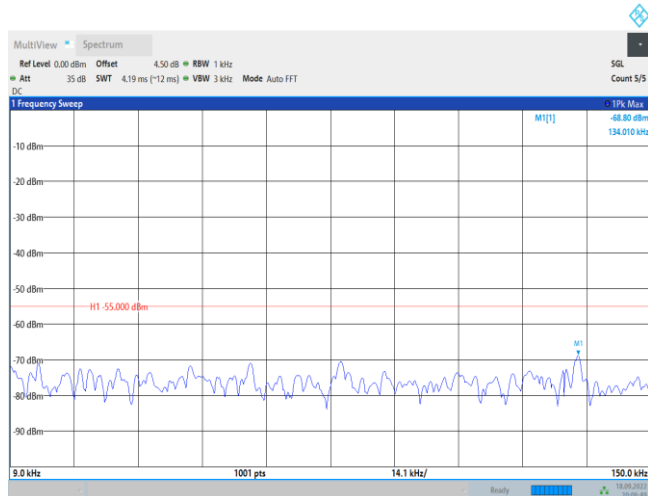
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



20:05:28 18.09.2022

38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.009~0.15MHz



20:06:50 18.09.2022



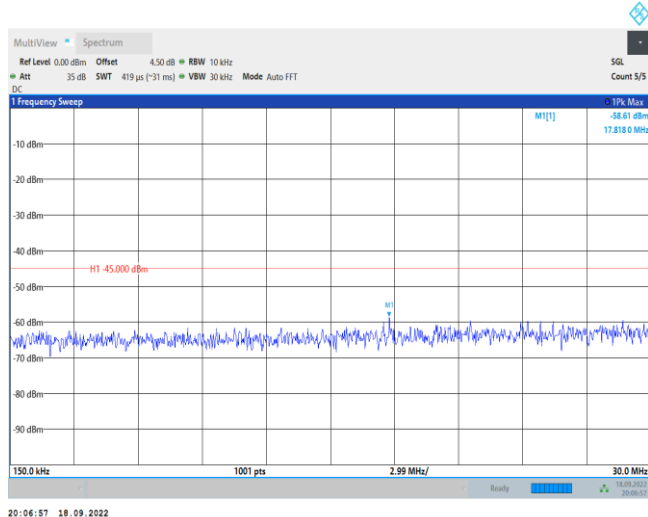
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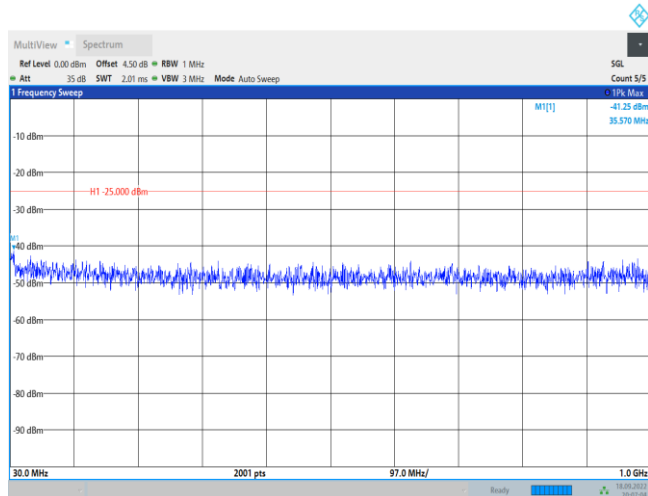
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.15~30MHz



20:06:57 18.09.2022

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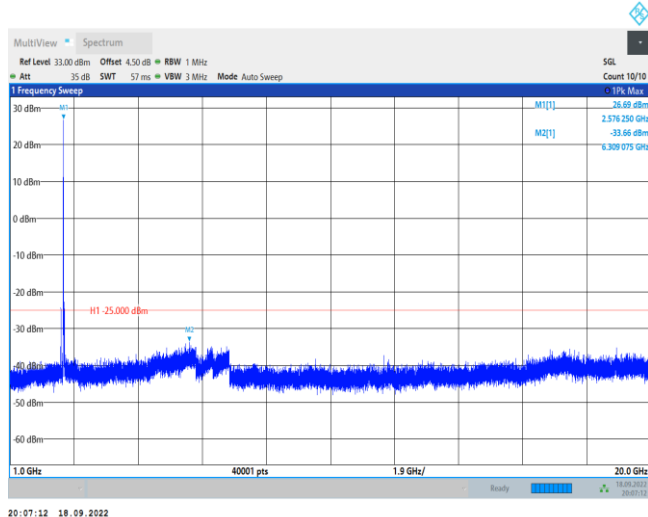
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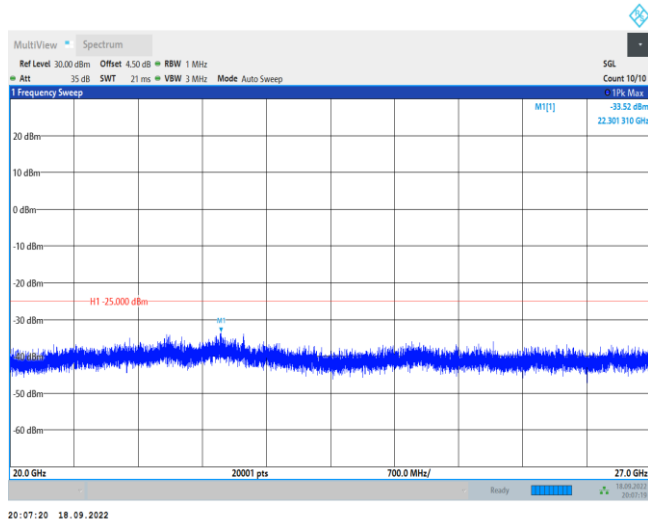
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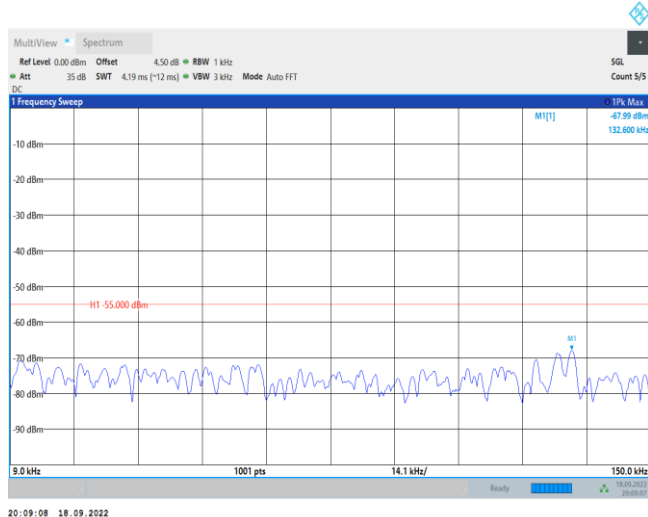
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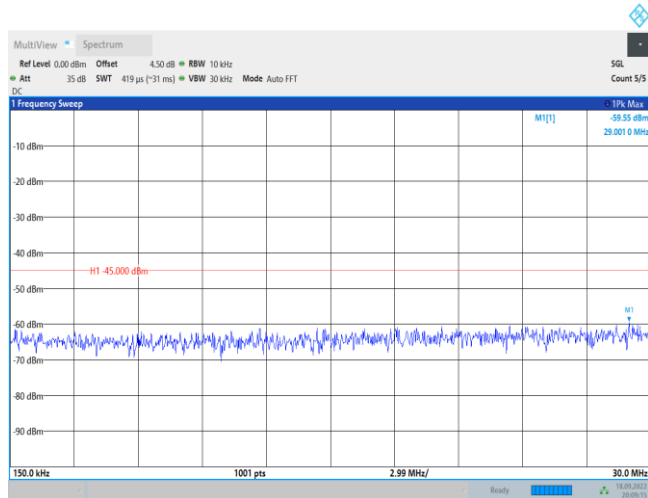
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



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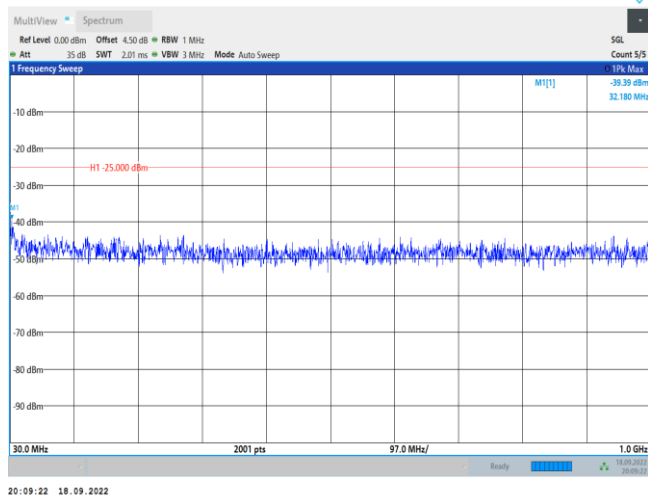
20:09:15 18.09.2022



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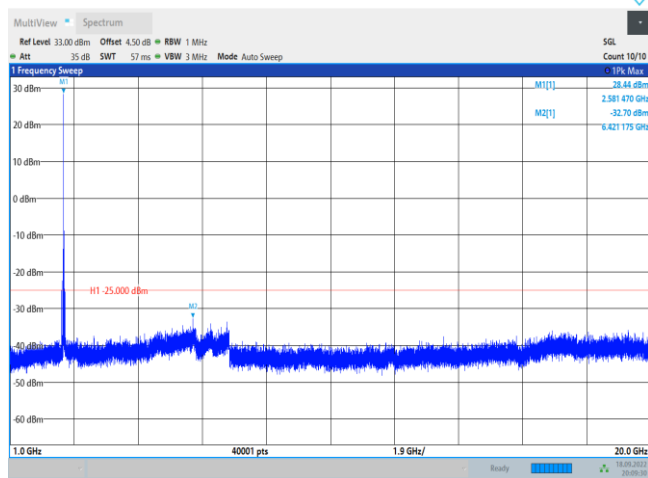
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



20:09:22 18.09.2022

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



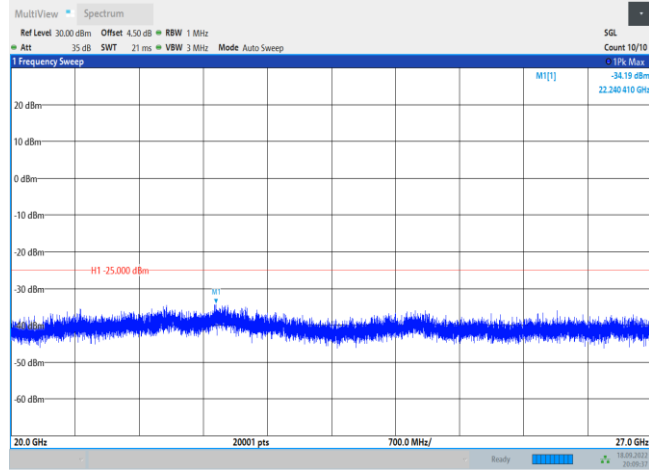
20:09:30 18.09.2022



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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



20:09:38 18.09.2022



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Field Strength of Spurious Radiation

Test Band = Band38_CA_TM1

Test Channel = Mid ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4251.75	50.14	-45.65	31.21	-59.56	-25.00	34.56	185	237	Horizontal
2	5152.3800	45.96	-45.32	32.96	-61.66	-25.00	36.66	146	146	Horizontal
3	7728.5700	43.83	-42.89	36.64	-57.68	-25.00	32.68	152	0	Horizontal
4	10304.7600	35.69	-39.09	38.84	-59.82	-25.00	34.82	142	177	Horizontal
5	12880.9500	34.31	-37.06	39.71	-58.30	-25.00	33.30	193	132	Horizontal
6	15457.1400	30.11	-34.57	38.63	-61.09	-25.00	36.09	263	23	Horizontal

Test Band = Band38_CA_TM1

Test Channel = Mid ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4247.25	50.56	-45.66	31.20	-59.16	-25.00	34.16	284	179	Vertical
2	5152.3800	45.86	-45.32	32.96	-61.76	-25.00	36.76	196	300	Vertical
3	7728.5700	44.52	-42.89	36.64	-56.99	-25.00	31.99	142	6	Vertical
4	10304.7600	34.58	-39.09	38.84	-60.93	-25.00	35.93	133	224	Vertical
5	12880.9500	31.88	-37.06	39.71	-60.73	-25.00	35.73	302	286	Vertical
6	15457.1400	31.48	-34.57	38.63	-59.72	-25.00	34.72	126	269	Vertical



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Test Band = Band38_CA_TM1
Test Channel = High ANTO

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4091.25	52.01	-45.78	30.94	-58.10	-25.00	33.10	169	15	Horizontal
2	5162.5800	47.33	-45.31	32.97	-60.27	-25.00	35.27	148	148	Horizontal
3	7743.8700	44.90	-42.76	36.67	-56.45	-25.00	31.45	175	0	Horizontal
4	10325.1600	35.65	-39.07	38.84	-59.84	-25.00	34.84	126	14	Horizontal
5	12906.4500	32.27	-37.12	39.74	-60.38	-25.00	35.38	233	268	Horizontal
6	15487.7400	30.19	-35.15	38.59	-61.63	-25.00	36.63	219	56	Horizontal

Test Band = Band38_CA_TM1
Test Channel = High ANTO

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3933.75	51.24	-46.20	30.64	-59.57	-25.00	34.57	248	225	Vertical
2	5162.5800	45.46	-45.31	32.97	-62.14	-25.00	37.14	195	315	Vertical
3	7743.8700	43.97	-42.76	36.67	-57.38	-25.00	32.38	163	8	Vertical
4	10325.1600	36.84	-39.07	38.84	-58.65	-25.00	33.65	255	331	Vertical
5	12906.4500	32.62	-37.12	39.74	-60.03	-25.00	35.03	170	208	Vertical
6	15487.7400	29.56	-35.15	38.59	-62.26	-25.00	37.26	103	254	Vertical



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Test Band = Band38_CA_TM1

Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	47.51	-45.33	32.96	-60.12	-25.00	35.12	165	56	Horizontal
2	7713.2700	44.43	-43.01	36.61	-57.23	-25.00	32.23	148	162	Horizontal
3	10284.3600	35.86	-39.15	38.83	-59.72	-25.00	34.72	172	162	Horizontal
4	12855.4500	34.01	-36.99	39.69	-58.55	-25.00	33.55	139	207	Horizontal
5	15426.5400	31.14	-33.99	38.67	-59.44	-25.00	34.44	199	254	Horizontal
6	17997.6300	33.35	-34.58	42.23	-54.25	-25.00	29.25	216	5	Horizontal

Test Band = Band38_CA_TM1

Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	46.21	-45.33	32.96	-61.42	-25.00	36.42	211	1	Vertical
2	7713.2700	43.61	-43.01	36.61	-58.05	-25.00	33.05	154	270	Vertical
3	10284.3600	36.27	-39.15	38.83	-59.31	-25.00	34.31	162	150	Vertical
4	12855.4500	32.60	-36.99	39.69	-59.96	-25.00	34.96	148	56	Vertical
5	15426.5400	30.62	-33.99	38.67	-59.96	-25.00	34.96	175	331	Vertical
6	17997.6300	33.45	-34.58	42.23	-54.15	-25.00	29.15	143	256	Vertical



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Test Band = Band38_CA_TM1

Test Channel = Mid ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3765.75	51.04	-45.78	30.21	-59.79	-25.00	34.79	236	211	Horizontal
2	5152.3800	46.38	-45.32	32.96	-61.24	-25.00	36.24	255	2	Horizontal
3	7728.5700	42.50	-42.89	36.64	-59.01	-25.00	34.01	148	28	Horizontal
4	10304.7600	35.26	-39.09	38.84	-60.25	-25.00	35.25	195	150	Horizontal
5	12880.9500	32.39	-37.06	39.71	-60.22	-25.00	35.22	147	42	Horizontal
6	15457.1400	30.95	-34.57	38.63	-60.25	-25.00	35.25	109	256	Horizontal

Test Band = Band38_CA_TM1

Test Channel = Mid ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792	51.25	-45.89	30.30	-59.60	-25.00	34.60	265	285	Vertical
2	5152.3800	46.64	-45.32	32.96	-60.98	-25.00	35.98	145	14	Vertical
3	7728.5700	42.58	-42.89	36.64	-58.93	-25.00	33.93	258	357	Vertical
4	10304.7600	35.20	-39.09	38.84	-60.31	-25.00	35.31	169	2	Vertical
5	12880.9500	32.59	-37.06	39.71	-60.02	-25.00	35.02	191	148	Vertical
6	15457.1400	30.48	-34.57	38.63	-60.72	-25.00	35.72	133	0	Vertical



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Test Band = Band38_CA_TM1
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3771.75	50.73	-45.80	30.23	-60.10	-25.00	35.10	254	72	Horizontal
2	5162.5800	46.17	-45.31	32.97	-61.43	-25.00	36.43	162	357	Horizontal
3	7743.8700	43.59	-42.76	36.67	-57.76	-25.00	32.76	199	209	Horizontal
4	10325.1600	35.31	-39.07	38.84	-60.18	-25.00	35.18	145	41	Horizontal
5	12906.4500	33.77	-37.12	39.74	-58.88	-25.00	33.88	172	58	Horizontal
6	15487.7400	29.55	-35.15	38.59	-62.27	-25.00	37.27	167	255	Horizontal

Test Band = Band38_CA_TM1
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3972.75	50.76	-46.11	30.74	-59.87	-25.00	34.87	222	333	Vertical
2	5162.5800	47.08	-45.31	32.97	-60.52	-25.00	35.52	156	181	Vertical
3	7743.8700	44.91	-42.76	36.67	-56.44	-25.00	31.44	148	8	Vertical
4	10325.1600	35.50	-39.07	38.84	-59.99	-25.00	34.99	196	62	Vertical
5	12906.4500	33.39	-37.12	39.74	-59.26	-25.00	34.26	188	302	Vertical
6	15487.7400	30.32	-35.15	38.59	-61.50	-25.00	36.50	170	357	Vertical



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Test Band = Band38_CA_TM1

Test Channel = Low ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	47.79	-45.33	32.96	-59.84	-25.00	34.84	215	224	Horizontal
2	7713.2700	44.00	-43.01	36.61	-57.66	-25.00	32.66	142	54	Horizontal
3	10284.3600	37.66	-39.15	38.83	-57.92	-25.00	32.92	136	268	Horizontal
4	12855.4500	32.66	-36.99	39.69	-59.90	-25.00	34.90	235	0	Horizontal
5	15426.5400	29.68	-33.99	38.67	-60.90	-25.00	35.90	180	268	Horizontal
6	17997.6300	33.56	-34.58	42.23	-54.04	-25.00	29.04	160	1	Horizontal

Test Band = Band38_CA_TM1

Test Channel = Low ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	46.50	-45.33	32.96	-61.13	-25.00	36.13	216	255	Vertical
2	7713.2700	43.42	-43.01	36.61	-58.24	-25.00	33.24	155	238	Vertical
3	10284.3600	36.67	-39.15	38.83	-58.91	-25.00	33.91	148	194	Vertical
4	12855.4500	33.62	-36.99	39.69	-58.94	-25.00	33.94	196	132	Vertical
5	15426.5400	31.40	-33.99	38.67	-59.18	-25.00	34.18	185	0	Vertical
6	17997.6300	34.78	-34.58	42.23	-52.82	-25.00	27.82	172	70	Vertical



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Test Band = Band38_CA_TM1
Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4010.25	50.93	-46.01	30.82	-59.53	-25.00	34.53	203	315	Horizontal
2	5152.3800	46.13	-45.32	32.96	-61.49	-25.00	36.49	266	146	Horizontal
3	7728.5700	43.91	-42.89	36.64	-57.60	-25.00	32.60	202	163	Horizontal
4	10304.7600	35.15	-39.09	38.84	-60.36	-25.00	35.36	128	71	Horizontal
5	12880.9500	33.50	-37.06	39.71	-59.11	-25.00	34.11	149	1	Horizontal
6	15457.1400	30.65	-34.57	38.63	-60.55	-25.00	35.55	176	163	Horizontal

Test Band = Band38_CA_TM1
Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4104.75	50.48	-45.76	30.96	-59.58	-25.00	34.58	255	162	Vertical
2	5152.3800	46.26	-45.32	32.96	-61.36	-25.00	36.36	142	254	Vertical
3	7728.5700	43.04	-42.89	36.64	-58.47	-25.00	33.47	169	162	Vertical
4	10304.7600	35.09	-39.09	38.84	-60.42	-25.00	35.42	184	102	Vertical
5	12880.9500	32.64	-37.06	39.71	-59.97	-25.00	34.97	173	85	Vertical
6	15457.1400	31.51	-34.57	38.63	-59.69	-25.00	34.69	160	193	Vertical



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Test Band = Band38_CA_TM1

Test Channel = High ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3507	52.44	-46.25	29.53	-59.54	-25.00	34.54	215	73	Horizontal
2	5162.5800	46.20	-45.31	32.97	-61.40	-25.00	36.40	142	164	Horizontal
3	7743.8700	44.06	-42.76	36.67	-57.29	-25.00	32.29	162	1	Horizontal
4	10325.1600	35.40	-39.07	38.84	-60.09	-25.00	35.09	158	2	Horizontal
5	12906.4500	34.21	-37.12	39.74	-58.44	-25.00	33.44	169	28	Horizontal
6	15487.7400	29.75	-35.15	38.59	-62.07	-25.00	37.07	174	270	Horizontal

Test Band = Band38_CA_TM1

Test Channel = High ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3935.25	50.37	-46.20	30.65	-60.44	-25.00	35.44	254	135	Vertical
2	5162.5800	46.42	-45.31	32.97	-61.18	-25.00	36.18	196	316	Vertical
3	7743.8700	43.56	-42.76	36.67	-57.79	-25.00	32.79	185	225	Vertical
4	10325.1600	35.96	-39.07	38.84	-59.53	-25.00	34.53	174	164	Vertical
5	12906.4500	33.40	-37.12	39.74	-59.25	-25.00	34.25	112	1	Vertical
6	15487.7400	30.19	-35.15	38.59	-61.63	-25.00	36.63	161	73	Vertical



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Test Band = Band38_CA_TM1
Test Channel = Low ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	46.14	-45.33	32.96	-61.49	-25.00	36.49	216	316	Horizontal
2	7713.2700	43.64	-43.01	36.61	-58.02	-25.00	33.02	254	180	Horizontal
3	10284.3600	36.12	-39.15	38.83	-59.46	-25.00	34.46	185	6	Horizontal
4	12855.4500	34.14	-36.99	39.69	-58.42	-25.00	33.42	142	42	Horizontal
5	15426.5400	31.56	-33.99	38.67	-59.02	-25.00	34.02	196	28	Horizontal
6	17997.6300	33.50	-34.58	42.23	-54.10	-25.00	29.10	231	356	Horizontal

Test Band = Band38_CA_TM1
Test Channel = Low ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	46.93	-45.33	32.96	-60.70	-25.00	35.70	111	356	Vertical
2	7713.2700	44.19	-43.01	36.61	-57.47	-25.00	32.47	154	177	Vertical
3	10284.3600	36.85	-39.15	38.83	-58.73	-25.00	33.73	128	56	Vertical
4	12855.4500	33.09	-36.99	39.69	-59.47	-25.00	34.47	196	300	Vertical
5	15426.5400	31.03	-33.99	38.67	-59.55	-25.00	34.55	235	56	Vertical
6	17997.6300	33.57	-34.58	42.23	-54.03	-25.00	29.03	174	6	Vertical



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Test Band = Band38_CA_TM1
Test Channel = Mid ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3790.5	50.85	-45.88	30.30	-59.99	-25.00	34.99	289	1	Horizontal
2	5152.3800	46.04	-45.32	32.96	-61.58	-25.00	36.58	174	270	Horizontal
3	7728.5700	44.44	-42.89	36.64	-57.07	-25.00	32.07	165	331	Horizontal
4	10304.7600	35.32	-39.09	38.84	-60.19	-25.00	35.19	132	346	Horizontal
5	12880.9500	32.85	-37.06	39.71	-59.76	-25.00	34.76	142	164	Horizontal
6	15457.1400	30.64	-34.57	38.63	-60.56	-25.00	35.56	155	240	Horizontal

Test Band = Band38_CA_TM1
Test Channel = Mid ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4116.75	51.50	-45.76	30.98	-58.55	-25.00	33.55	215	256	Vertical
2	5152.3800	45.42	-45.32	32.96	-62.20	-25.00	37.20	149	104	Vertical
3	7728.5700	43.25	-42.89	36.64	-58.26	-25.00	33.26	186	287	Vertical
4	10304.7600	35.55	-39.09	38.84	-59.96	-25.00	34.96	216	42	Vertical
5	12880.9500	33.10	-37.06	39.71	-59.51	-25.00	34.51	231	118	Vertical
6	15457.1400	30.51	-34.57	38.63	-60.69	-25.00	35.69	170	256	Vertical



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Test Band = Band38_CA_TM1
Test Channel = High ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4056.75	50.20	-45.88	30.89	-60.06	-25.00	35.06	287	195	Horizontal
2	5162.5800	45.75	-45.31	32.97	-61.85	-25.00	36.85	149	195	Horizontal
3	7743.8700	44.79	-42.76	36.67	-56.56	-25.00	31.56	168	0	Horizontal
4	10325.1600	35.93	-39.07	38.84	-59.56	-25.00	34.56	142	255	Horizontal
5	12906.4500	33.04	-37.12	39.74	-59.61	-25.00	34.61	166	330	Horizontal
6	15487.7400	29.70	-35.15	38.59	-62.12	-25.00	37.12	251	150	Horizontal

Test Band = Band38_CA_TM1
Test Channel = High ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3775.5	51.15	-45.82	30.24	-59.69	-25.00	34.69	247	58	Vertical
2	5162.5800	45.94	-45.31	32.97	-61.66	-25.00	36.66	148	87	Vertical
3	7743.8700	43.89	-42.76	36.67	-57.46	-25.00	32.46	195	0	Vertical
4	10325.1600	36.24	-39.07	38.84	-59.25	-25.00	34.25	162	178	Vertical
5	12906.4500	33.19	-37.12	39.74	-59.46	-25.00	34.46	133	178	Vertical
6	15487.7400	29.58	-35.15	38.59	-62.24	-25.00	37.24	157	6	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
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	38.80	0.015009	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	30.60	0.011837	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	43.50	0.016827	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	40.20	0.015551	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	55.40	0.021431	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	51.10	0.019767	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	34.90	0.013500	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	37.20	0.014390	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	47.00	0.018181	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	40.70	0.015744	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-50	48.60	0.018800	PASS

---End of Attachment---



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