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Appendix B.42

LTE CA_38C



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Effective (Isotropic) Radiated Power Output Data

Test Result Ant1

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	23.73	26.13	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	22.60	25	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	23.78	26.18	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	22.53	24.93	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	23.85	26.25	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	22.50	24.9	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	23.53	25.93	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	21.64	24.04	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	23.11	25.51	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	21.59	23.99	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	23.21	25.61	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	21.55	23.95	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	23.11	25.51	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	21.60	24	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	22.31	24.71	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	21.56	23.96	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	22.41	24.81	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	21.51	23.91	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	19.28	21.68	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	19.65	22.05	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	19.28	21.68	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	19.60	22	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	19.32	21.72	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	19.56	21.96	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	22.55	24.95	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	-28.41	-26.01	33	PASS



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38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	22.56	24.96	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	23.79	26.19	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	22.58	24.98	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	23.83	26.23	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	21.59	23.99	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	23.06	25.46	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	21.63	24.03	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	23.04	25.44	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	21.61	24.01	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	23.09	25.49	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	21.57	23.97	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	22.28	24.68	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	21.63	24.03	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	22.37	24.77	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	21.58	23.98	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	22.36	24.76	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	19.60	22	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	19.24	21.64	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	19.62	22.02	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	19.25	21.65	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	19.61	22.01	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	19.22	21.62	33	PASS



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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	37925-38075	75RB#0-75RB#0	28.122	30.72	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.129	30.42	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.15	29.94	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.074	30.18	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.544	42.96	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.507	40.96	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.518	42.32	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.491	40.24	PASS



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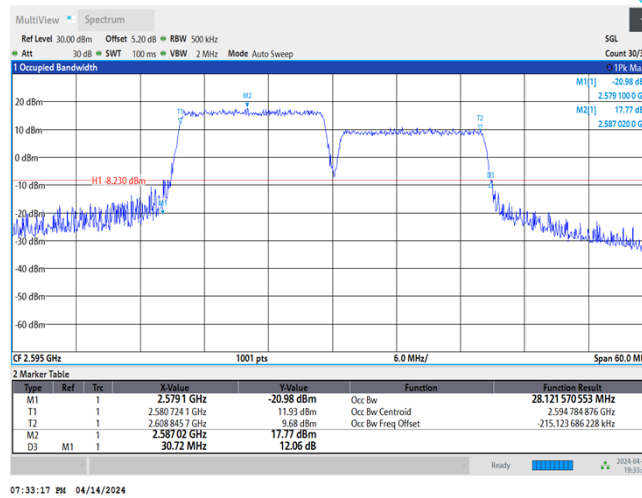
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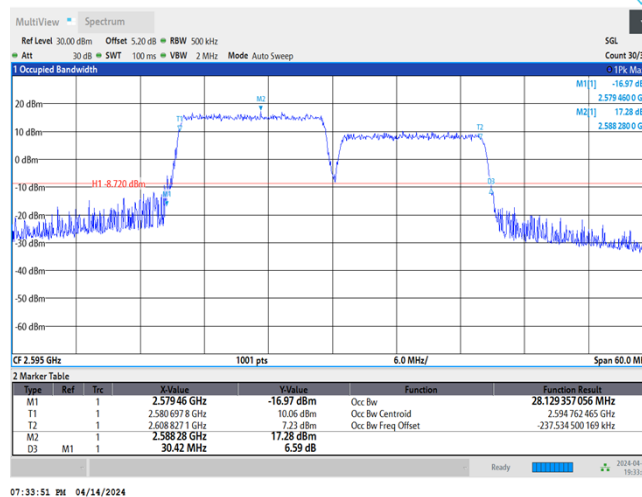
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Test Graphs

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



38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0



38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



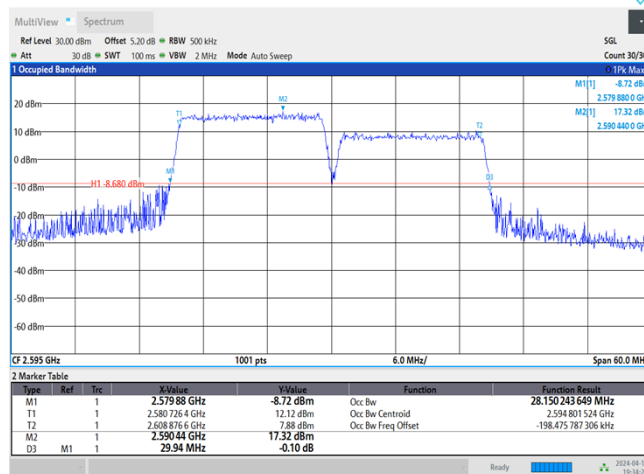
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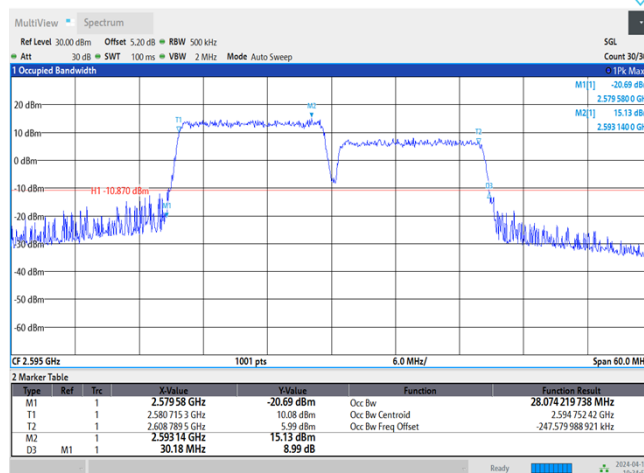
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38-38-15MHz-15MHz-256QAM-256QAM-37925-38075-75RB#0-75RB#0



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



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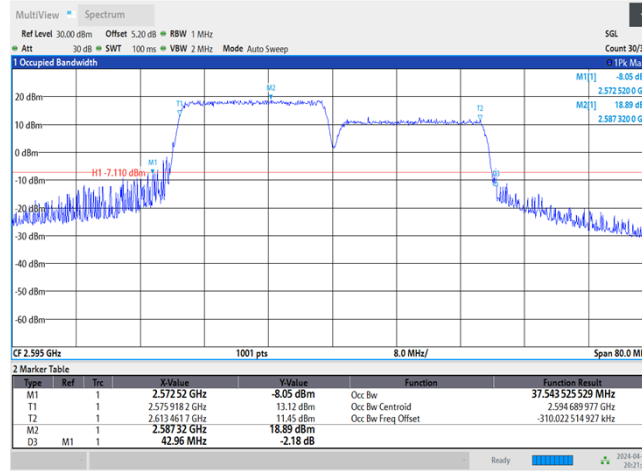
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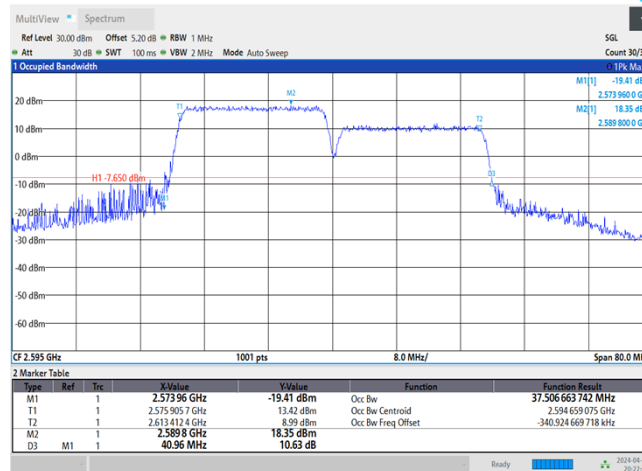
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



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



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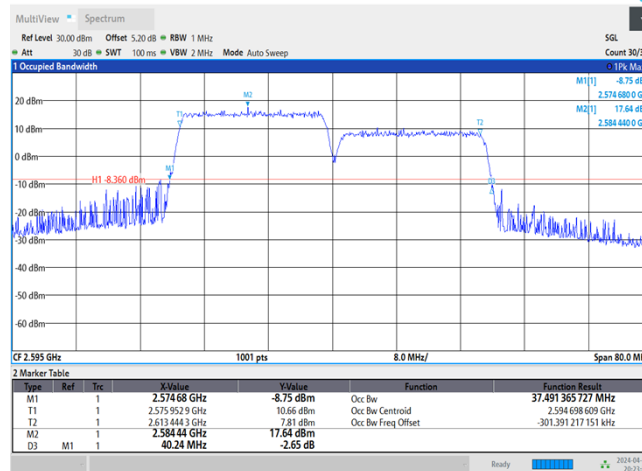
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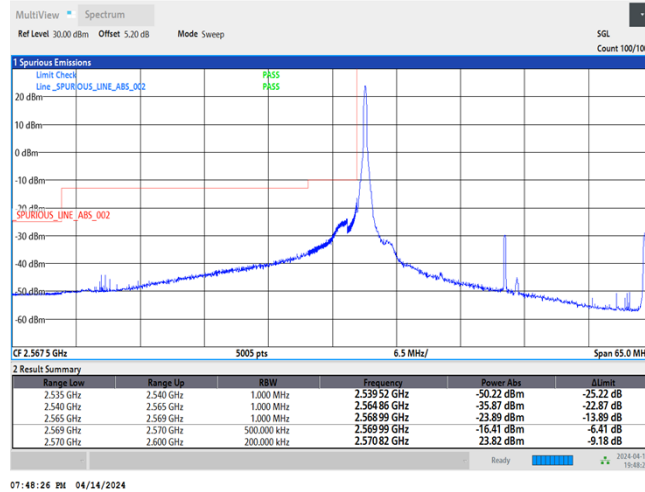
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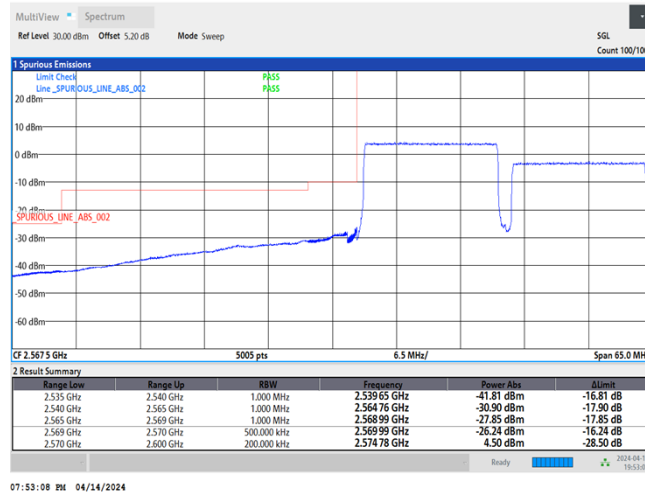
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Band Edge Test Graphs

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



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



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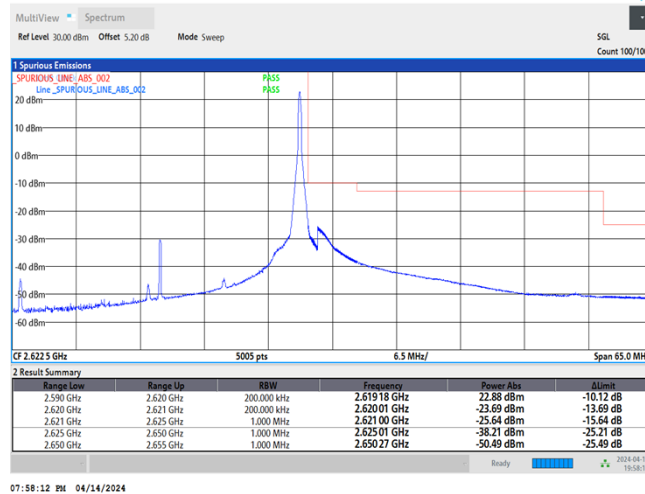
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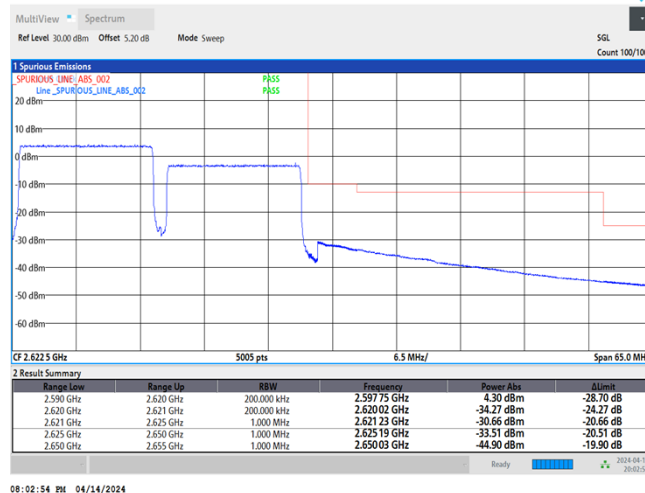
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



07:58:12 PM 04/14/2024

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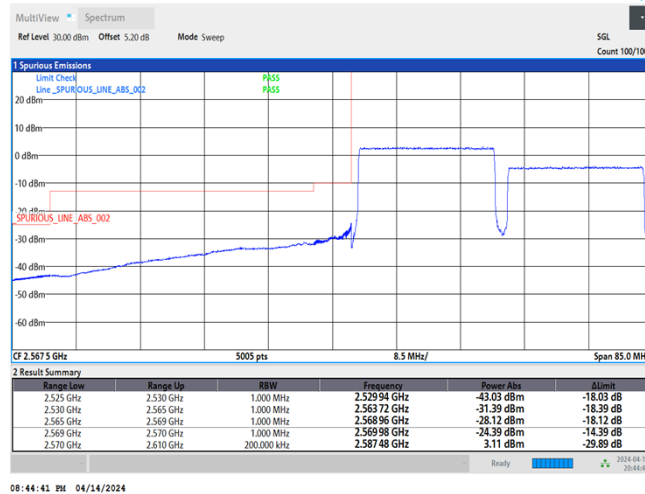
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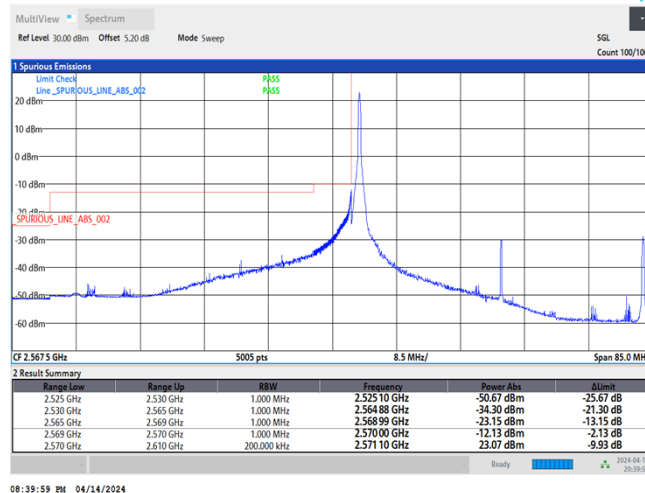
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08:39:59 PM 04/14/2024



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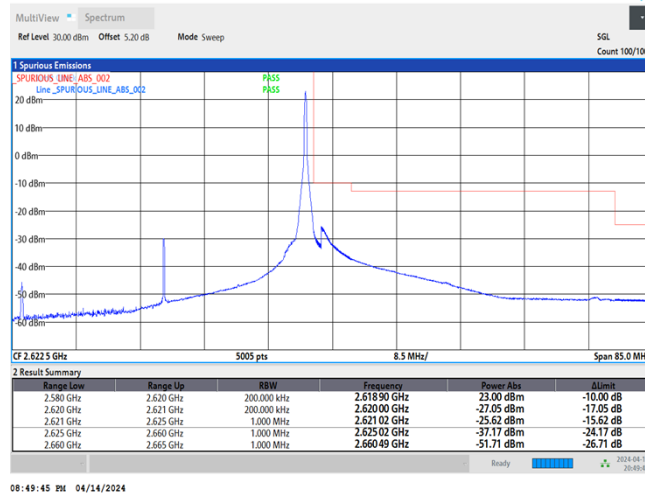
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



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



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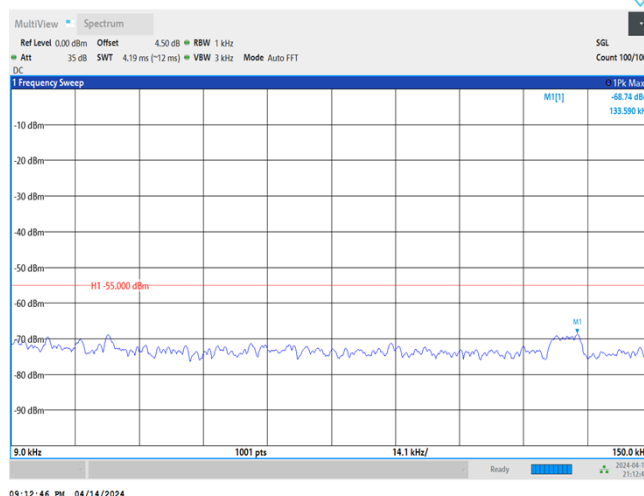
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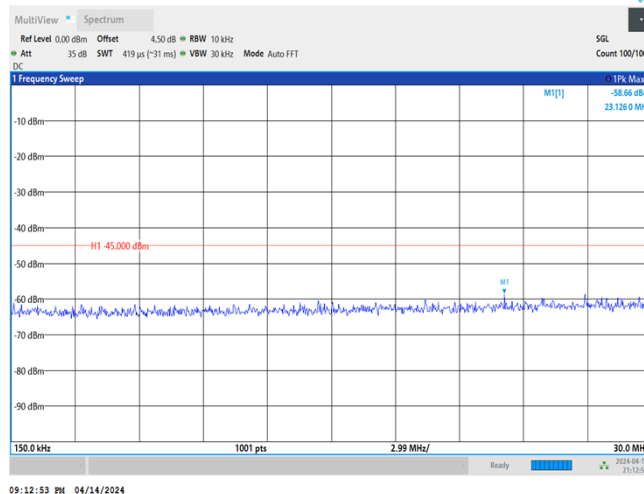
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Conducted Spurious Emission Test Graphs

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



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



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



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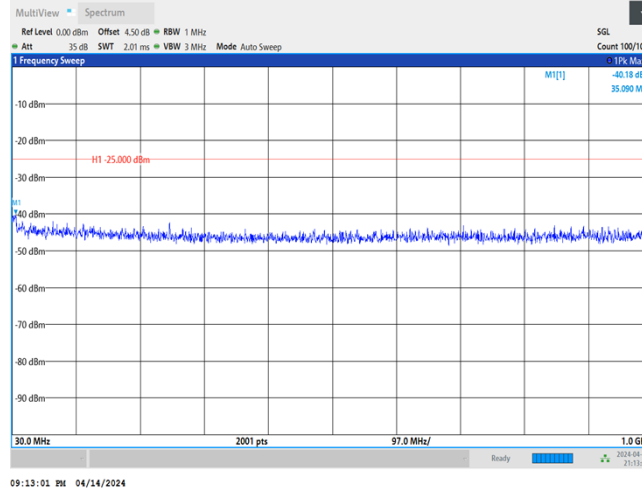
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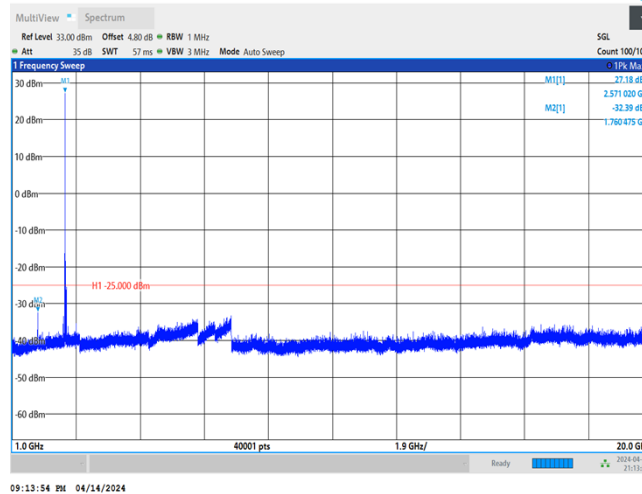
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-1000~20000MHz



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



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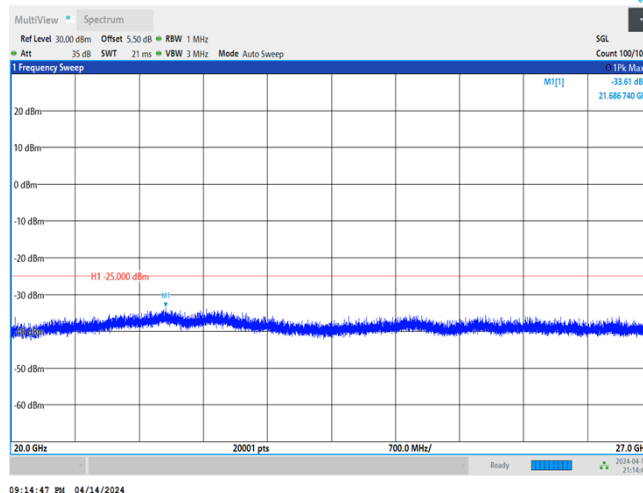
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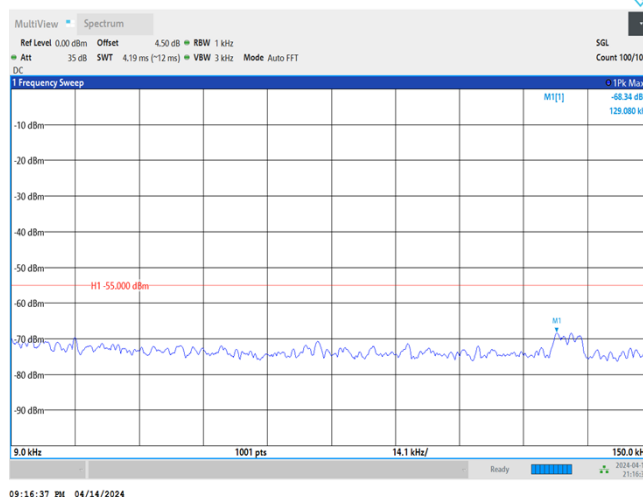
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-0.009~0.15MHz



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



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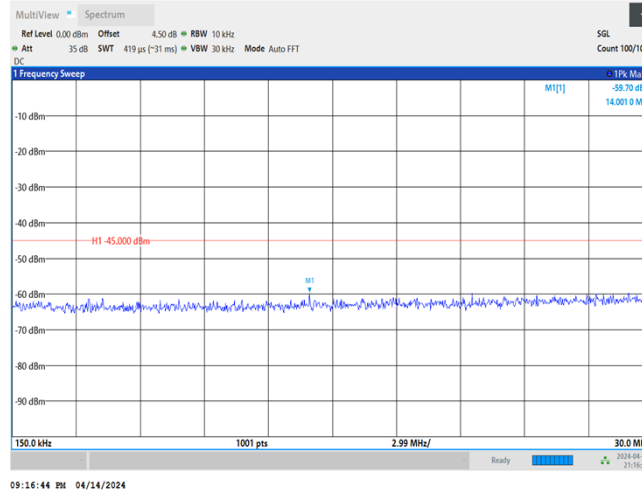
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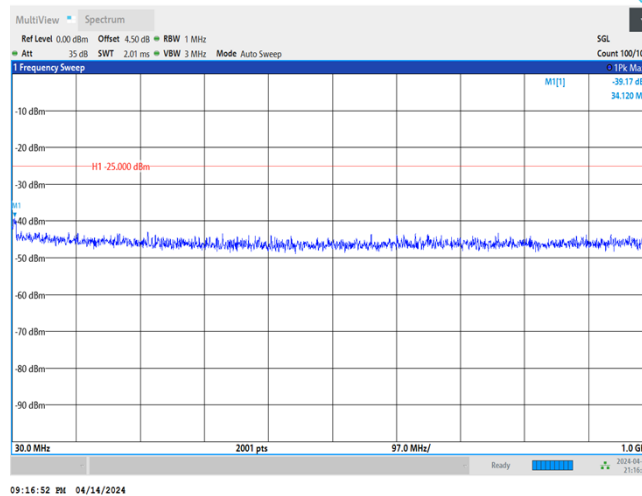
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-30~1000MHz



38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-1000~20000MHz



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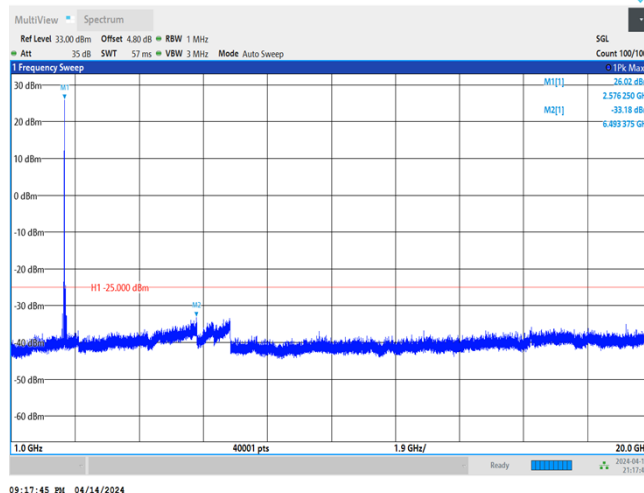
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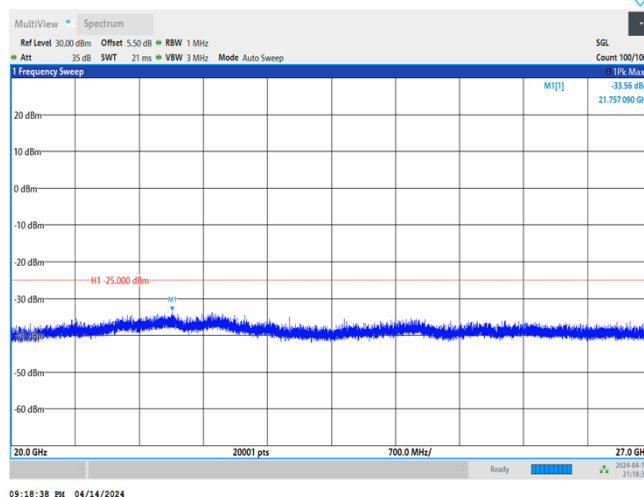
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-20000~27000MHz



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



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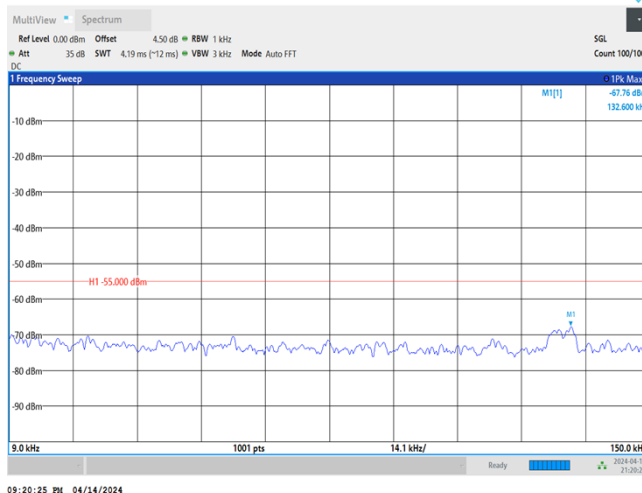
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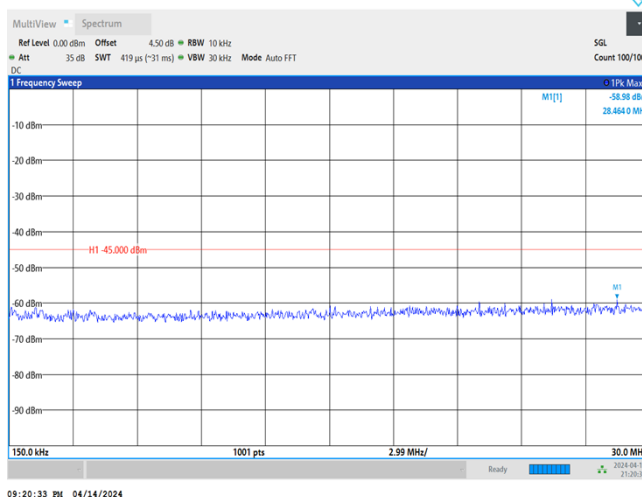
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



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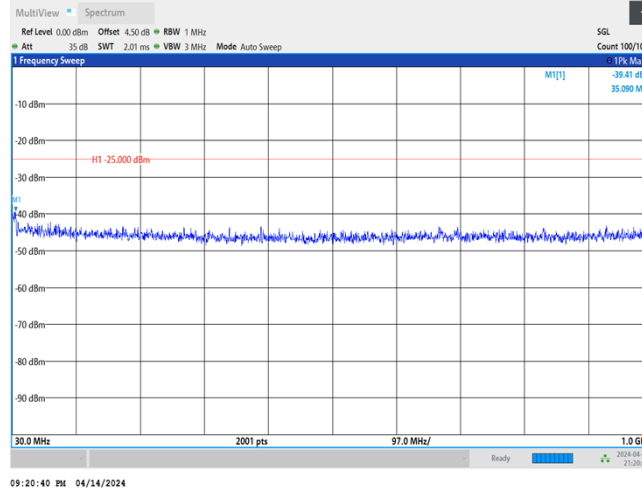
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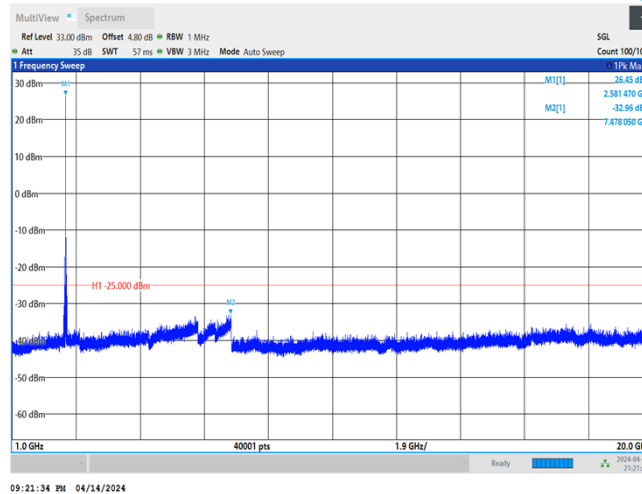
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



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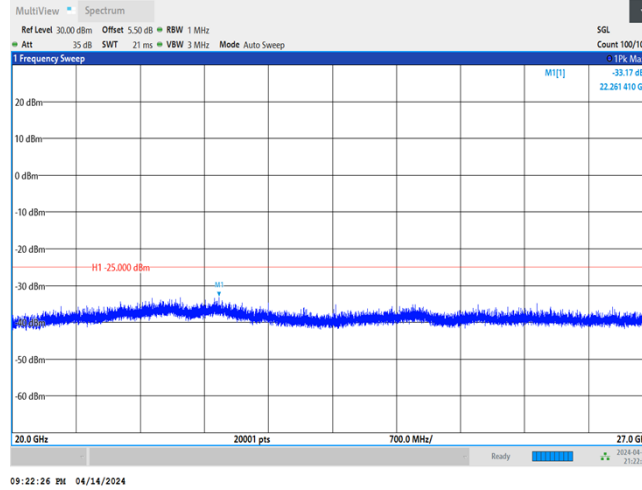
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Field Strength of Spurious Radiation

Test Band = LTE Band38_CA_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4372	45.08	-45.74	30.29	-65.63	-25.00	40.63	Horizontal
2	5472	44.36	-45.26	32.25	-63.91	-25.00	38.91	Horizontal
3	6960	43.49	-43.77	34.93	-60.61	-25.00	35.61	Horizontal
4	8791	41.61	-41.29	36.63	-58.31	-25.00	33.31	Horizontal
5	10909.5	37.47	-37.81	38.59	-57.01	-25.00	32.01	Horizontal
6	13748	35.67	-36.28	40.45	-55.42	-25.00	30.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4146	41.79	-45.76	29.75	-69.48	-25.00	44.48	Vertical
2	5304.5	42.40	-45.10	31.95	-66.01	-25.00	41.01	Vertical
3	6334	41.41	-44.50	33.54	-64.81	-25.00	39.81	Vertical
4	7778.5	43.09	-42.48	36.79	-57.86	-25.00	32.86	Vertical
5	8536.5	39.56	-41.51	36.78	-60.44	-25.00	35.44	Vertical
6	11400.5	36.03	-37.37	38.80	-57.80	-25.00	32.80	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3598	45.25	-46.13	28.76	-67.39	-25.00	42.39	Horizontal
2	4753.5	43.74	-45.57	31.01	-66.08	-25.00	41.08	Horizontal
3	6315.5	43.47	-44.52	33.47	-62.84	-25.00	37.84	Horizontal
4	8485	42.21	-41.59	36.81	-57.84	-25.00	32.84	Horizontal
5	10046	38.41	-39.18	38.50	-57.53	-25.00	32.53	Horizontal
6	12707.5	36.36	-36.69	39.31	-56.28	-25.00	31.28	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3649.5	44.09	-45.82	28.84	-68.15	-25.00	43.15	Vertical
2	4400.5	44.30	-45.82	30.36	-66.42	-25.00	41.42	Vertical
3	5416	44.81	-45.29	32.15	-63.59	-25.00	38.59	Vertical
4	6784	43.60	-44.11	34.61	-61.16	-25.00	36.16	Vertical
5	7974	42.17	-42.47	37.06	-58.50	-25.00	33.50	Vertical
6	9418.5	40.26	-39.90	37.34	-57.57	-25.00	32.57	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3775.5	44.59	-45.82	29.04	-67.45	-25.00	42.45	Horizontal
2	4842.5	44.06	-45.54	31.15	-65.59	-25.00	40.59	Horizontal
3	5953.5	44.23	-44.90	32.39	-63.53	-25.00	38.53	Horizontal
4	7218	42.79	-43.48	35.61	-60.34	-25.00	35.34	Horizontal
5	8415.5	42.26	-41.48	36.85	-57.63	-25.00	32.63	Horizontal
6	10451	37.86	-38.90	38.55	-57.76	-25.00	32.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3882	45.08	-46.22	29.21	-67.18	-25.00	42.18	Vertical
2	5185.5	45.54	-45.29	31.73	-63.28	-25.00	38.28	Vertical
3	6785	43.71	-44.12	34.61	-61.05	-25.00	36.05	Vertical
4	7778.5	45.38	-42.48	36.79	-55.57	-25.00	30.57	Vertical
5	9836	38.98	-39.43	38.17	-57.53	-25.00	32.53	Vertical
6	13361	35.89	-36.53	39.91	-56.00	-25.00	31.00	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

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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