Appendix B

E-UTRA Band CA_38C

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1 Effective (Isotropic) Radiated Power Output Data

1.1 Test Result for LTE Band CA_38C (Down Ant)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	22.84	24.54	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	22.82	24.52	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	22.89	24.59	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	22.85	24.55	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	22.82	24.52	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	22.75	24.45	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	22.87	24.57	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	22.77	24.47	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	22.87	24.57	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	22.79	24.49	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	22.85	24.55	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	22.75	24.45	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	21.90	23.60	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	21.90	23.60	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	21.81	23.51	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	21.86	23.56	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	21.79	23.49	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	21.75	23.45	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	21.87	23.57	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	21.84	23.54	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	21.86	23.56	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	21.86	23.56	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	21.81	23.51	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	21.82	23.52	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	20.71	22.41	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	20.88	22.58	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	20.73	22.43	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	20.76	22.46	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	20.80	22.50	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	20.70	22.40	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	20.87	22.57	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	20.85	22.55	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	20.75	22.45	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	20.73	22.43	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	20.83	22.53	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	20.88	22.58	33.00	PASS

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1.2 Test Result for LTE Band CA_38C (Up Ant)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	21.26	22.96	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	21.18	22.88	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	21.12	22.82	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	21.16	22.86	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	21.20	22.90	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	21.26	22.96	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	21.26	22.96	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	21.28	22.98	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	21.18	22.88	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	21.20	22.90	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	21.17	22.87	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	21.12	22.82	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	20.14	21.84	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	20.20	21.90	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	20.26	21.96	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	20.12	21.82	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	20.18	21.88	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	20.15	21.85	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	20.11	21.81	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	20.15	21.85	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	20.13	21.83	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	20.11	21.81	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	20.13	21.83	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	20.23	21.93	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	19.13	20.83	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	19.23	20.93	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	19.19	20.89	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	19.17	20.87	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	19.13	20.83	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	19.15	20.85	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	19.21	20.91	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	19.20	20.90	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	19.19	20.89	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	19.10	20.80	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	19.11	20.81	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	19.27	20.97	33.00	PASS

Remark:
a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,
ERP [dBm] = Conducted Power [dBm] + Gain [dBd]
EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	6.99	13.00	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	5.97	13.00	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	7.48	13.00	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	6.46	13.00	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	7.71	13.00	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	6.64	13.00	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	6.09	13.00	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	7.04	13.00	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	6.09	13.00	PASS

2.1 For LTE

2.1.1 Test Band = LTE Band CA_38C

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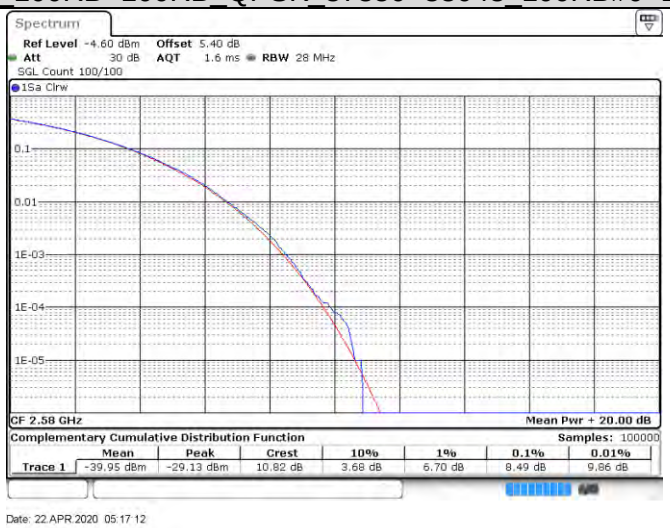

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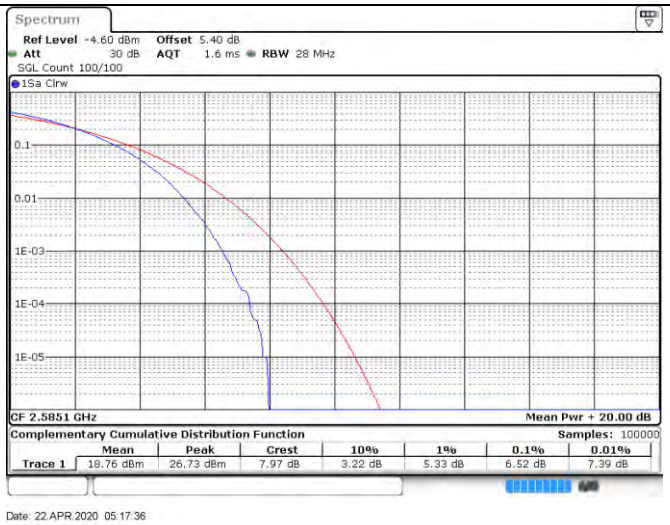

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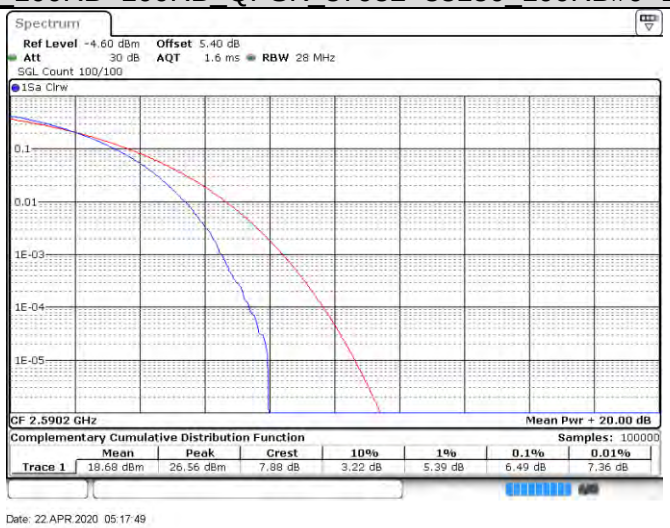

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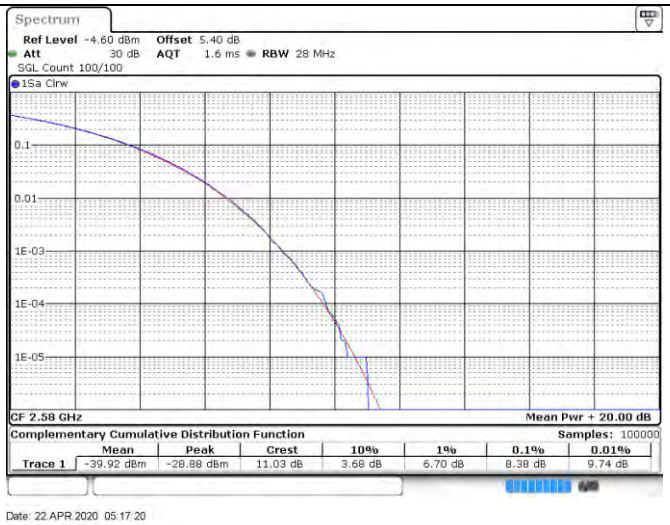

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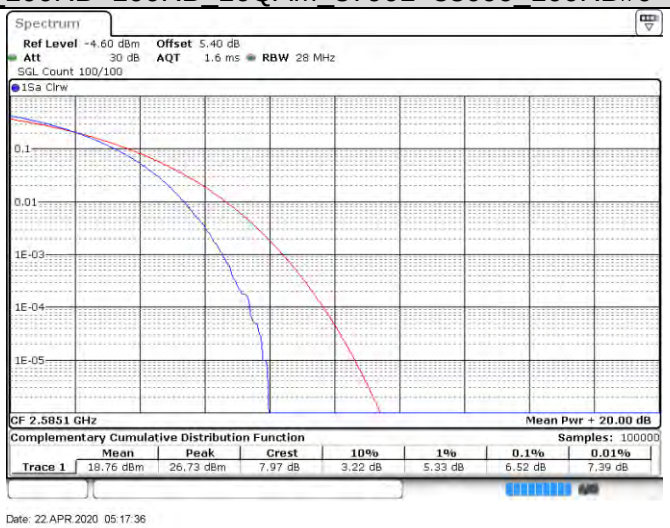

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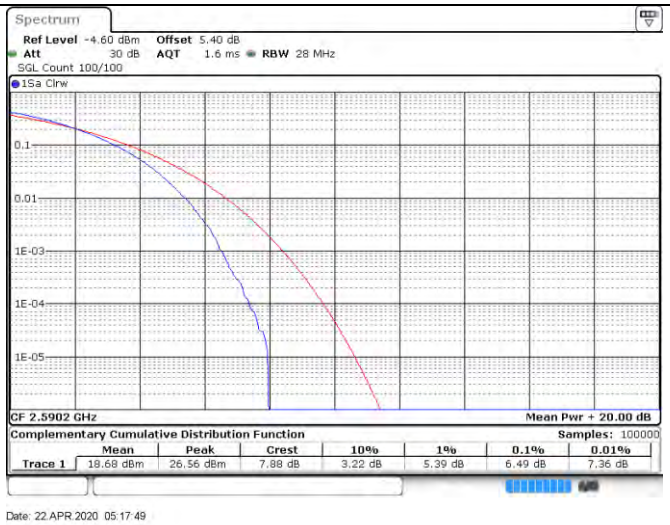

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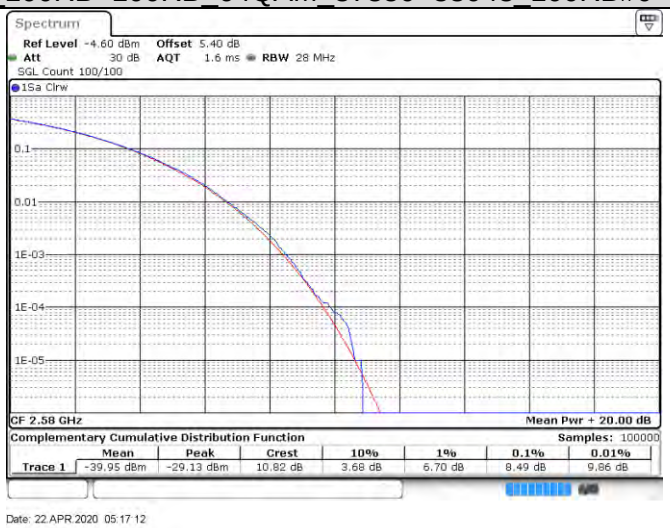

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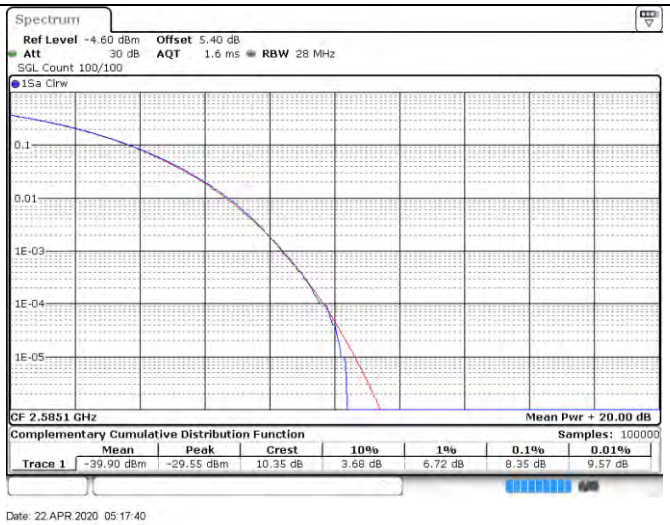

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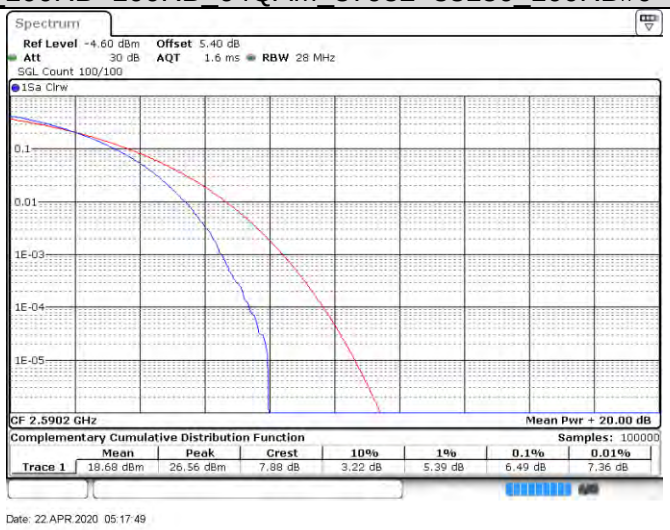

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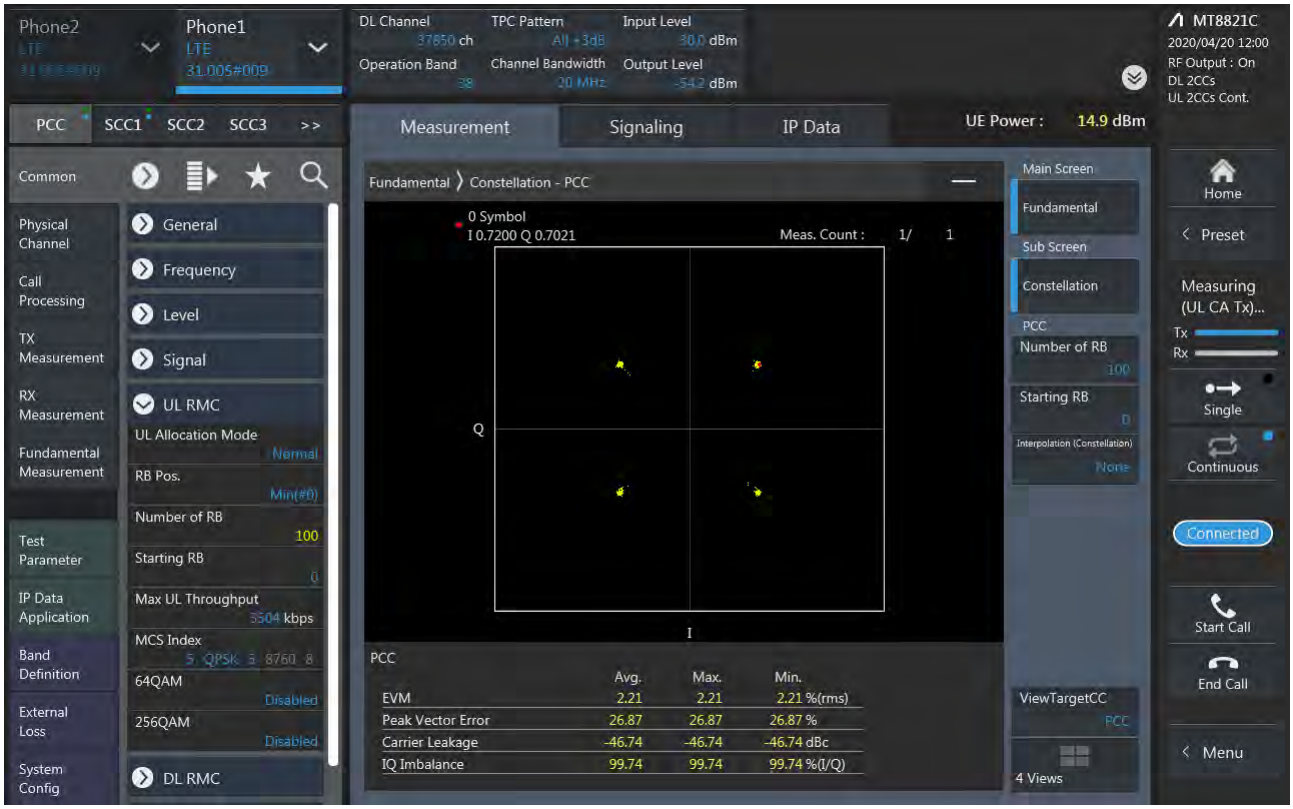
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_38C

3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

3.1.1.1.1 Test Channel = 37850+38048



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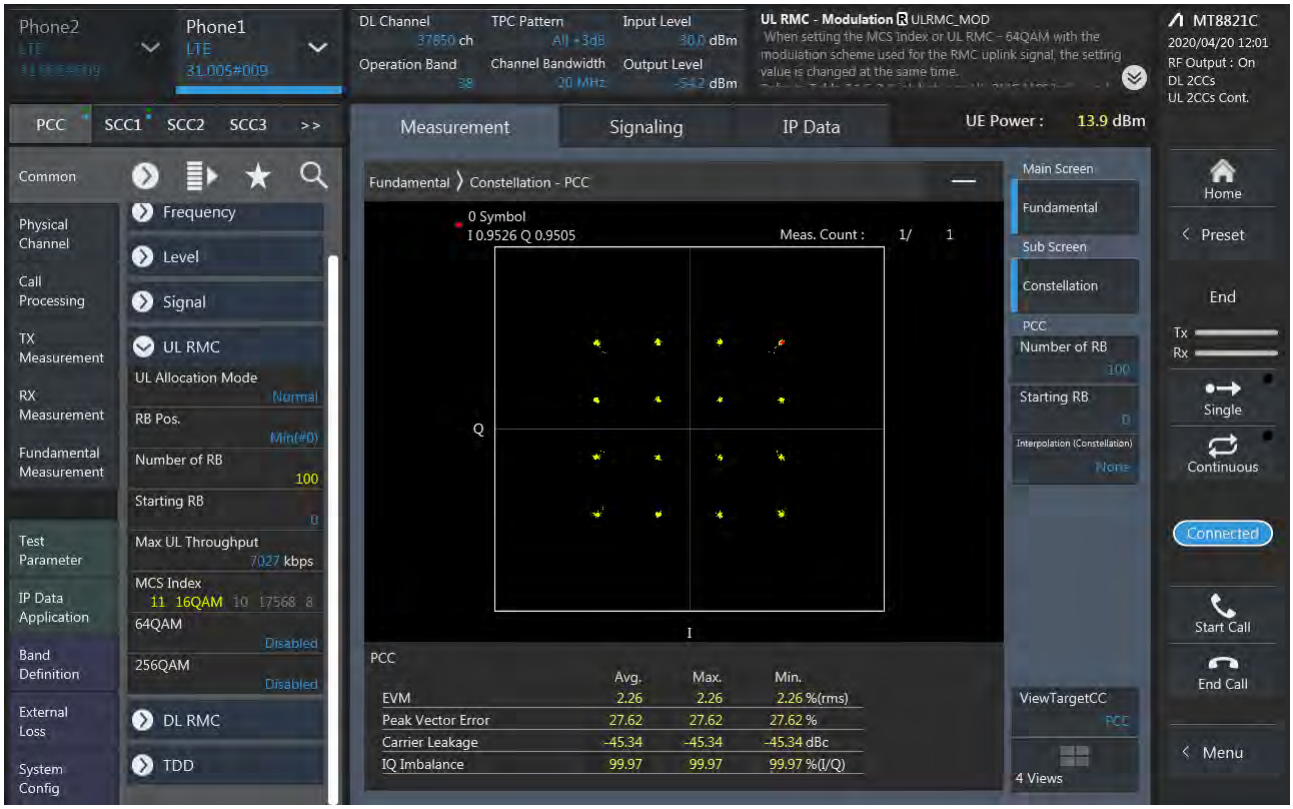
3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

3.1.1.2.1 Test Channel =37850+38048



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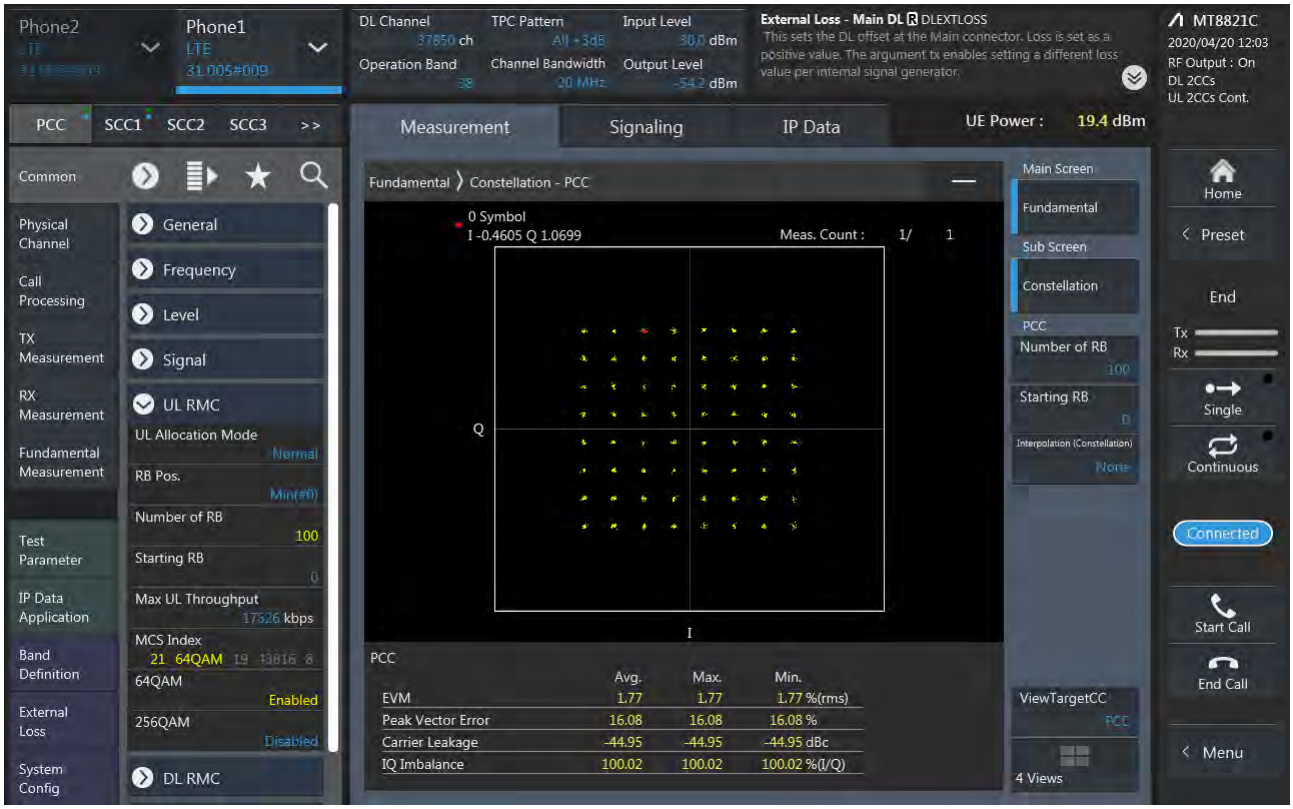
3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 37850+38048



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4 26dB Bandwidth and Occupied Bandwidth

Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_38C	QPSK	75RB+75RB	37825+37975	75RB#0	75RB#0	28.25	29.56	PASS
CA_38C	QPSK	75RB+75RB	37925+38075	75RB#0	75RB#0	28.22	29.53	PASS
CA_38C	QPSK	75RB+75RB	38025+38175	75RB#0	75RB#0	28.21	29.60	PASS
CA_38C	16QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.22	29.60	PASS
CA_38C	16QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.21	29.53	PASS
CA_38C	16QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.21	29.60	PASS
CA_38C	64QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.18	29.65	PASS
CA_38C	64QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.18	29.53	PASS
CA_38C	64QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.18	29.59	PASS
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	37.37	39.25	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	37.35	39.19	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	37.39	39.27	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.43	39.37	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.43	39.62	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.41	39.45	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.35	39.37	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.37	39.25	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.35	39.23	PASS

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4.1 For LTE

4.1.1 Test Band = LTE Band CA_38C

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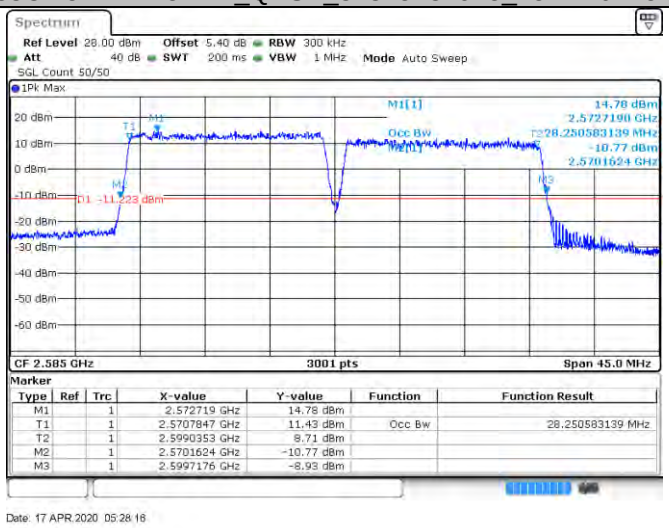

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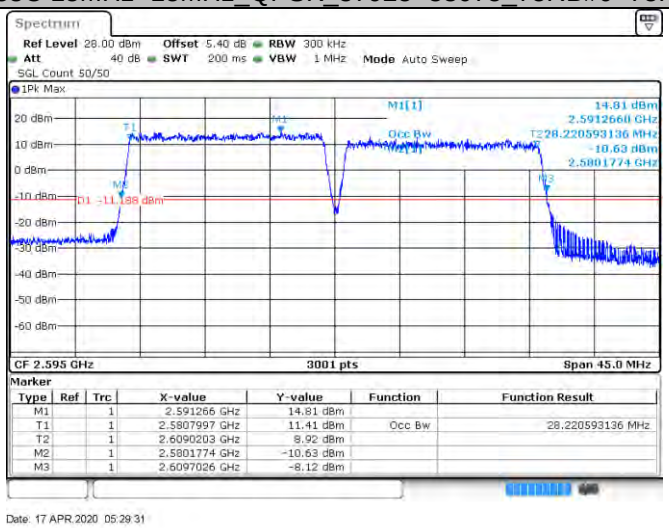

CA_38C 15MHz+15MHz_QPSK_38025+38175_75RB#0+75RB#0

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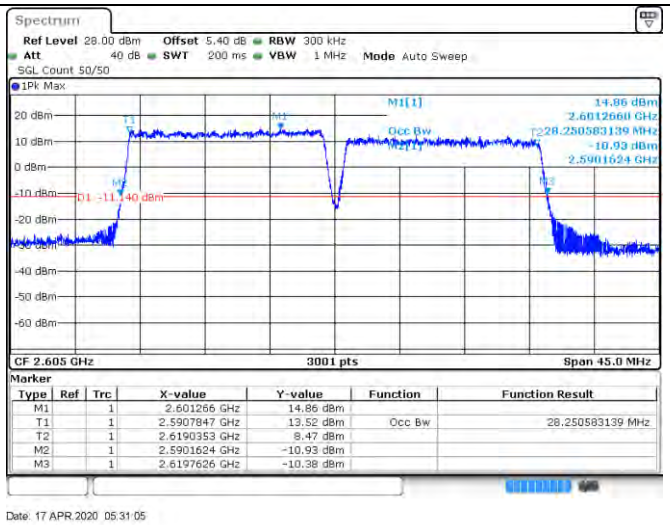

CA_38C 15MHz+15MHz_16QAM_37825+37975_75RB#0+75RB#0

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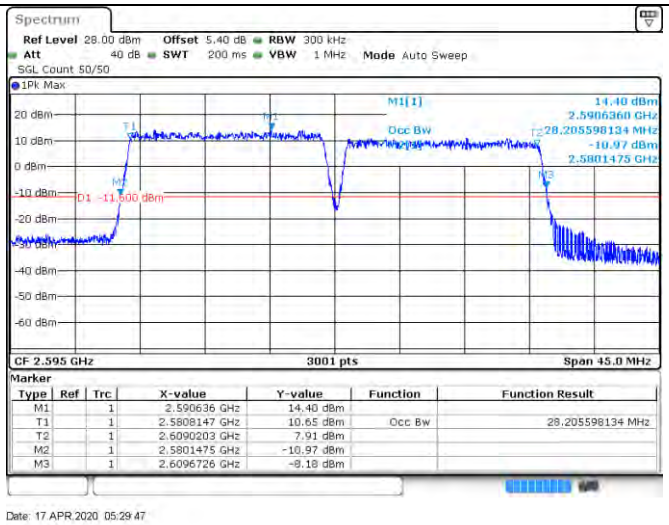

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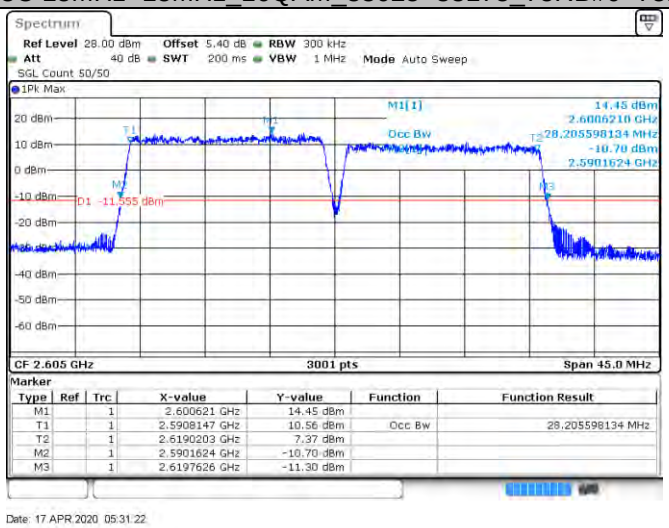

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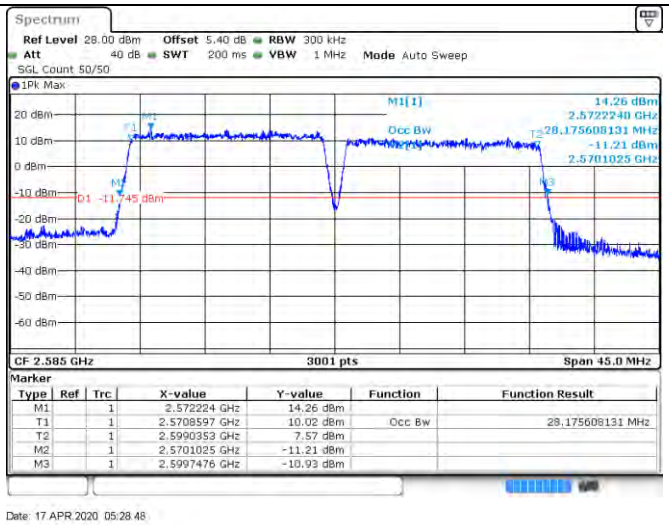

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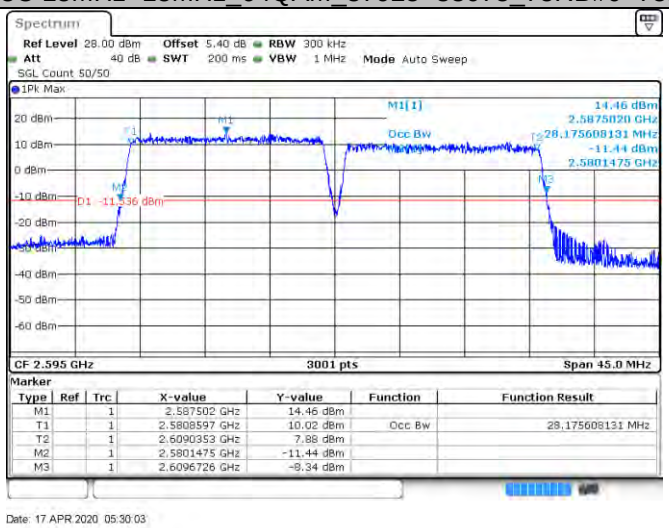

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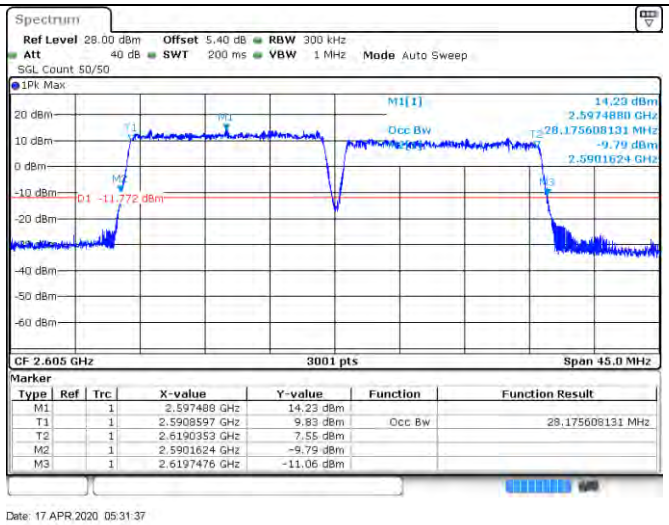

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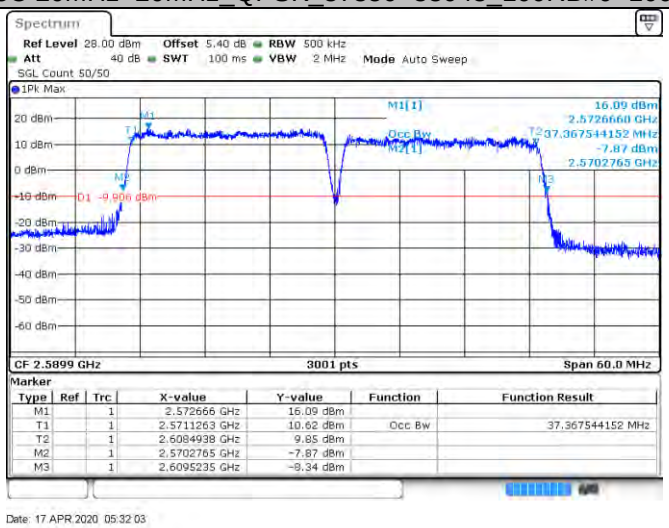

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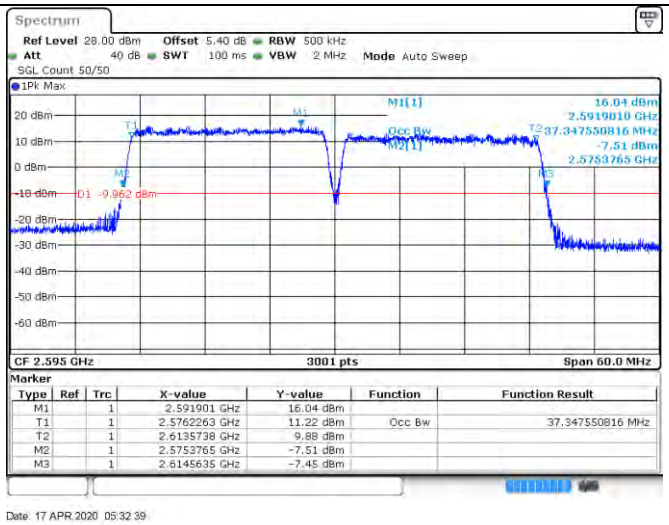

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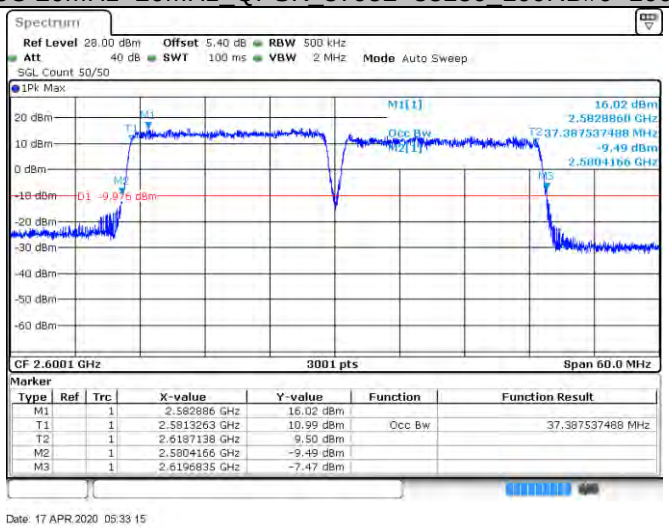

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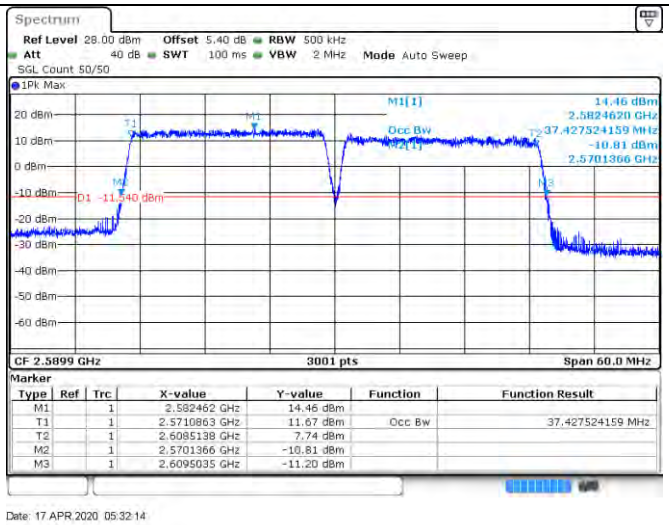

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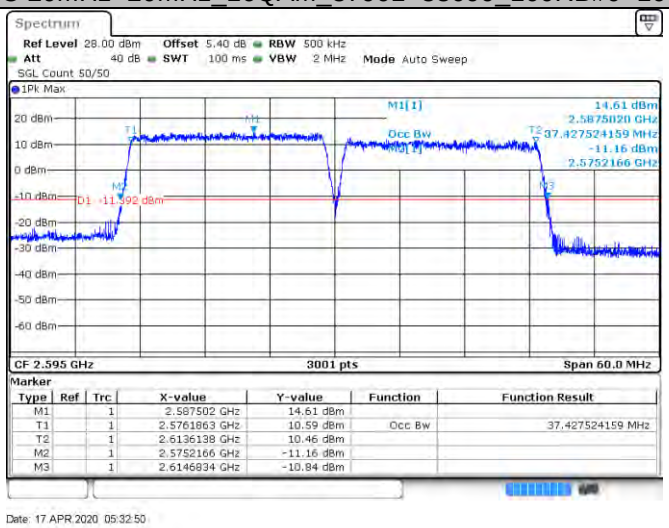

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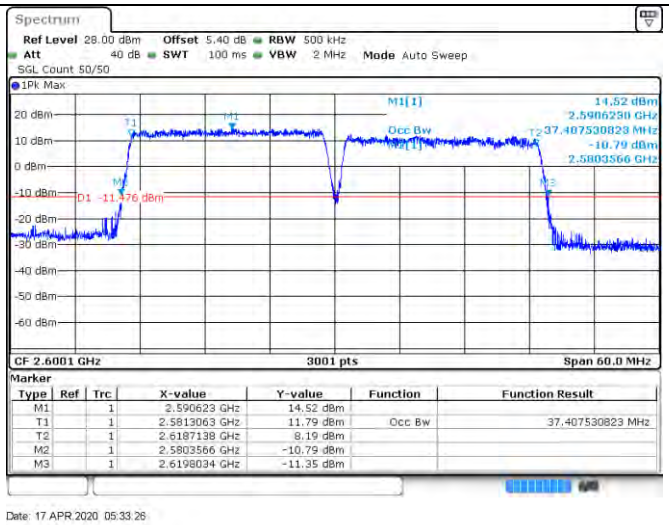

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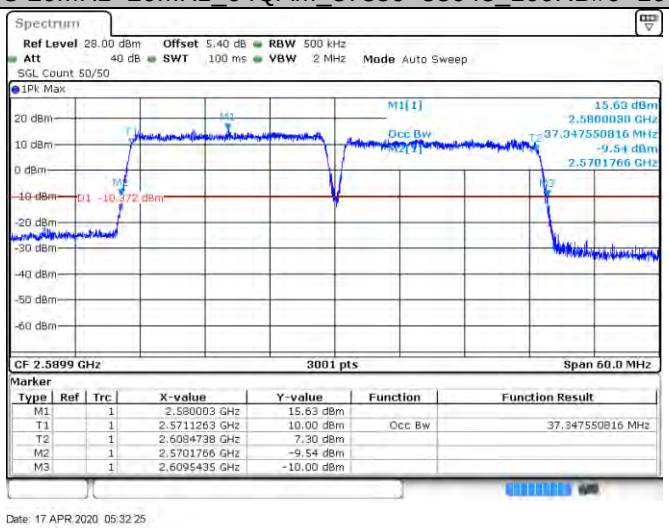

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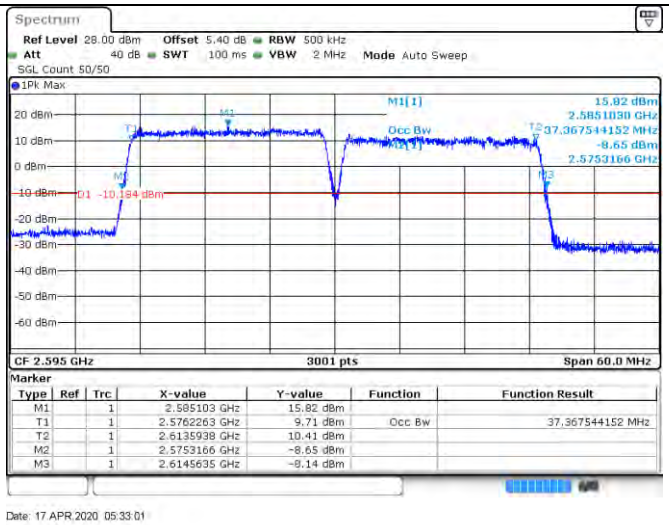

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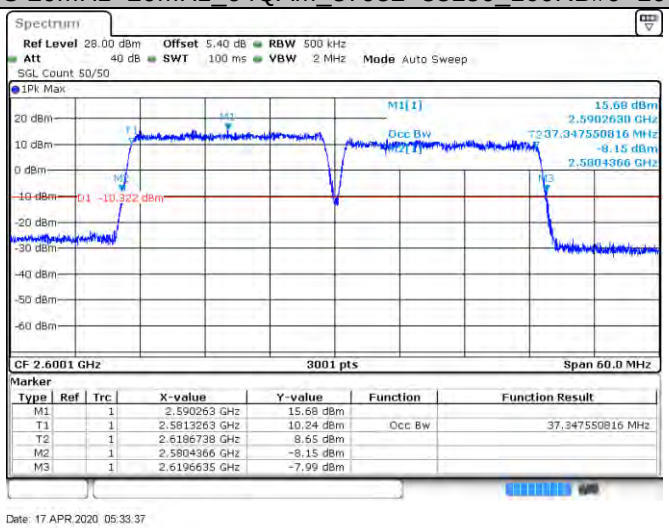

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5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE Band CA_38C

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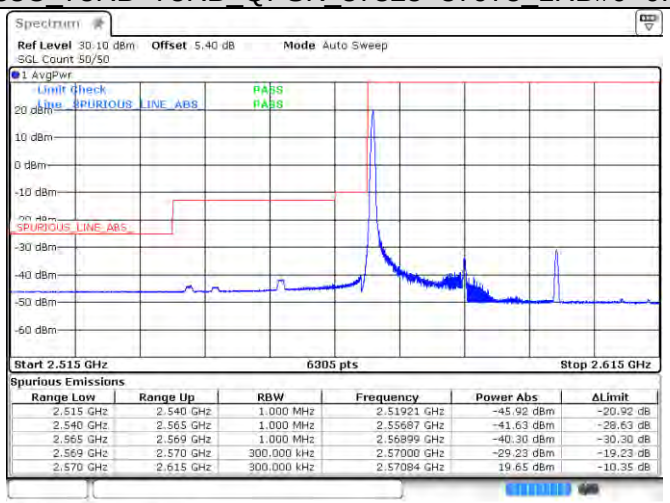

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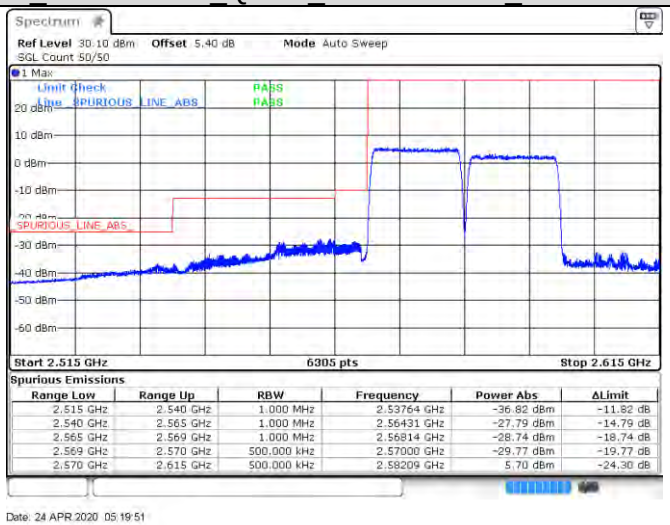

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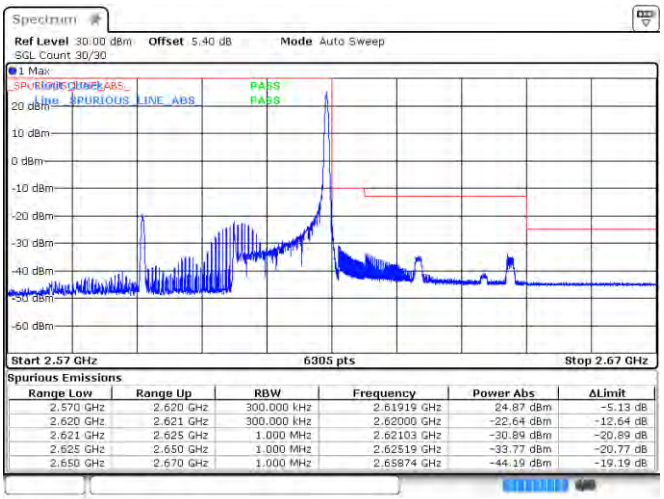

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	300.000 kHz	2.61919 GHz	24.87 dBm	-5.13 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62000 GHz	-22.64 dBm	-12.64 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62103 GHz	-30.89 dBm	-20.89 dB
2.625 GHz	2.650 GHz	1.000 MHz	2.62519 GHz	-33.77 dBm	-20.77 dB
2.650 GHz	2.670 GHz	1.000 MHz	2.65874 GHz	-44.19 dBm	-19.19 dB

Date: 24.APR.2020 05:29:02

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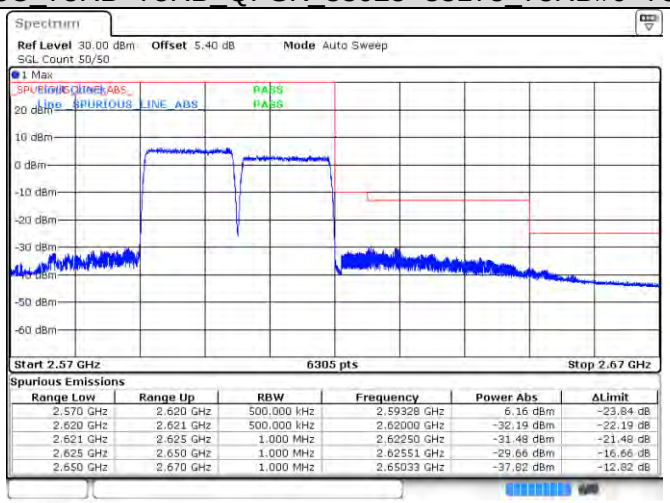

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	500.000 kHz	2.59328 GHz	6.16 dBm	-23.84 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-32.19 dBm	-22.19 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62250 GHz	-31.48 dBm	-21.48 dB
2.625 GHz	2.650 GHz	1.000 MHz	2.62551 GHz	-29.66 dBm	-16.66 dB
2.650 GHz	2.670 GHz	1.000 MHz	2.65033 GHz	-37.82 dBm	-12.82 dB

Date: 24.APR.2020 05:30:11

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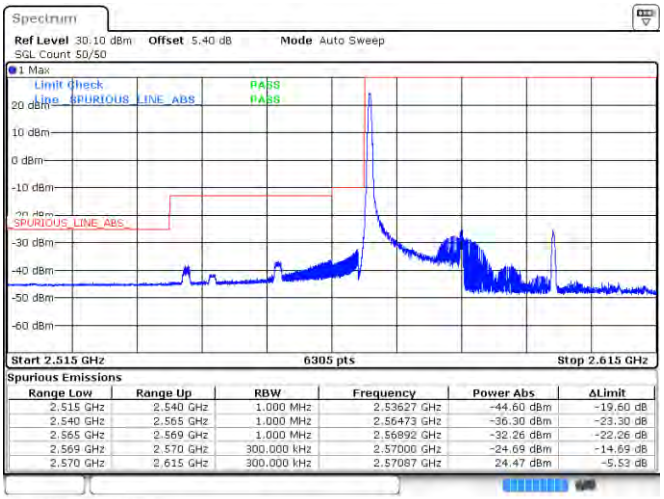

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.540 GHz	1.000 MHz	2.53627 GHz	-44.60 dBm	-19.60 dB
2.540 GHz	2.565 GHz	1.000 MHz	2.56473 GHz	-36.30 dBm	-23.30 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56892 GHz	-32.26 dBm	-22.26 dB
2.569 GHz	2.570 GHz	300.000 kHz	2.57000 GHz	-24.69 dBm	-14.69 dB
2.570 GHz	2.615 GHz	300.000 kHz	2.57087 GHz	24.47 dBm	-5.53 dB

Date: 24.APR.2020 05:17:14

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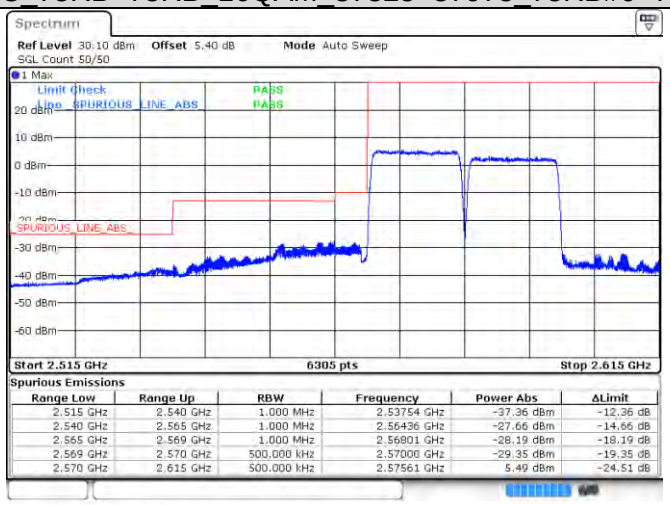

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.540 GHz	1.000 MHz	2.53754 GHz	-37.36 dBm	-12.36 dB
2.540 GHz	2.565 GHz	1.000 MHz	2.56436 GHz	-27.66 dBm	-14.66 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56801 GHz	-28.19 dBm	-18.19 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.57000 GHz	-29.35 dBm	-19.35 dB
2.570 GHz	2.615 GHz	500.000 kHz	2.57561 GHz	5.49 dBm	-24.51 dB

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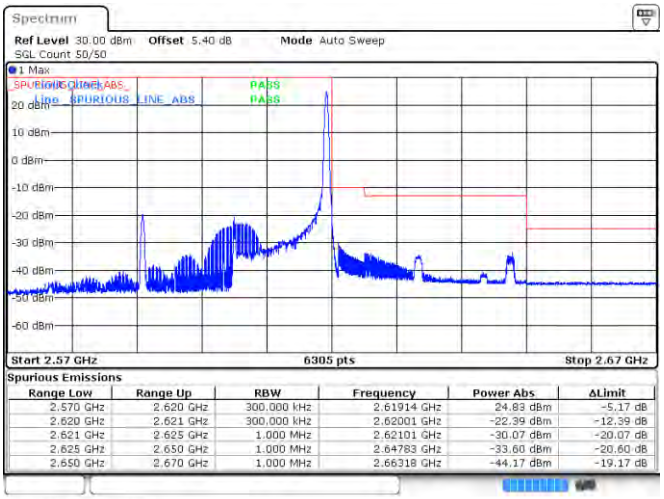

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	300.000 kHz	2.61914 GHz	24.83 dBm	-5.17 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62001 GHz	-22.39 dBm	-12.39 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62101 GHz	-30.07 dBm	-20.07 dB
2.625 GHz	2.650 GHz	1.000 MHz	2.64783 GHz	-33.60 dBm	-20.60 dB
2.650 GHz	2.670 GHz	1.000 MHz	2.66318 GHz	-44.17 dBm	-19.17 dB

Date: 24.APR.2020 05:29:23

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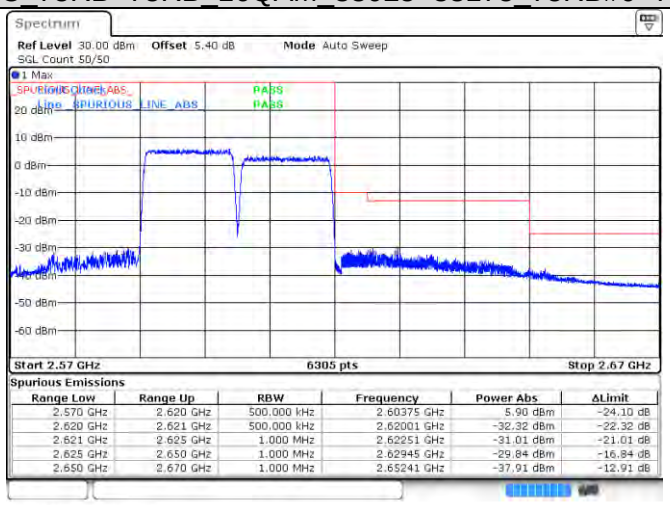

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	500.000 kHz	2.60375 GHz	5.90 dBm	-24.10 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62001 GHz	-32.32 dBm	-22.32 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62251 GHz	-31.01 dBm	-21.01 dB
2.625 GHz	2.650 GHz	1.000 MHz	2.62945 GHz	-29.84 dBm	-16.84 dB
2.650 GHz	2.670 GHz	1.000 MHz	2.65241 GHz	-37.91 dBm	-12.91 dB

Date: 24.APR.2020 05:30:32

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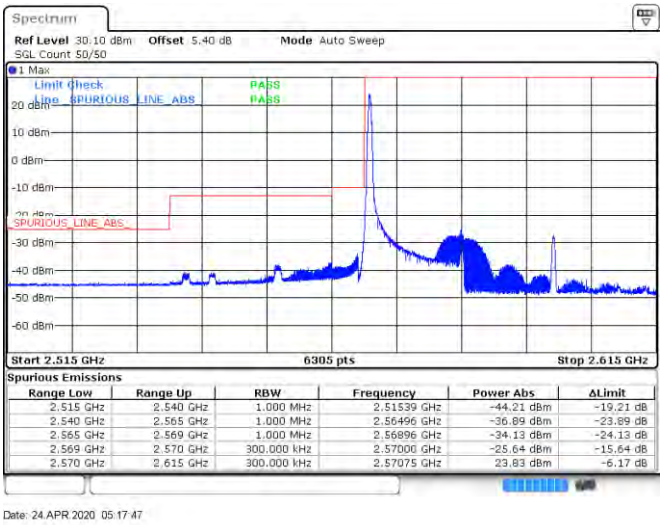

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.540 GHz	1.000 MHz	2.51539 GHz	-44.21 dBm	-19.21 dB
2.540 GHz	2.565 GHz	1.000 MHz	2.56496 GHz	-36.89 dBm	-23.89 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56896 GHz	-34.13 dBm	-24.13 dB
2.569 GHz	2.570 GHz	300.000 kHz	2.57000 GHz	-25.64 dBm	-15.64 dB
2.570 GHz	2.615 GHz	300.000 kHz	2.57075 GHz	23.83 dBm	-6.17 dB

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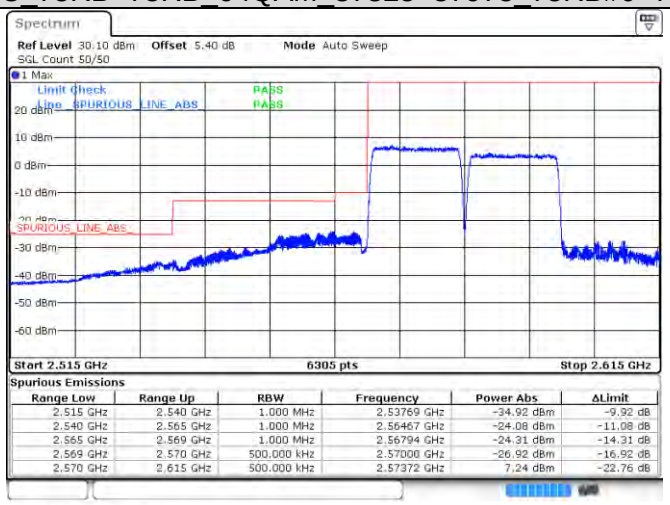

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.540 GHz	1.000 MHz	2.53769 GHz	-34.92 dBm	-9.92 dB
2.540 GHz	2.565 GHz	1.000 MHz	2.56467 GHz	-24.08 dBm	-11.08 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56794 GHz	-24.31 dBm	-14.31 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.57000 GHz	-26.92 dBm	-16.92 dB
2.570 GHz	2.615 GHz	500.000 kHz	2.57372 GHz	7.24 dBm	-22.76 dB

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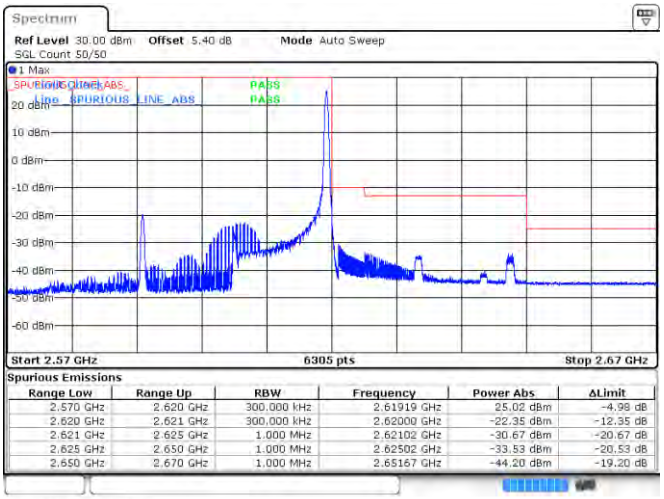

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	300.000 kHz	2.61919 GHz	25.02 dBm	-4.98 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62000 GHz	-22.35 dBm	-12.35 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62102 GHz	-30.67 dBm	-20.67 dB
2.625 GHz	2.650 GHz	1.000 MHz	2.62502 GHz	-33.53 dBm	-20.53 dB
2.650 GHz	2.670 GHz	1.000 MHz	2.65167 GHz	-44.20 dBm	-19.20 dB

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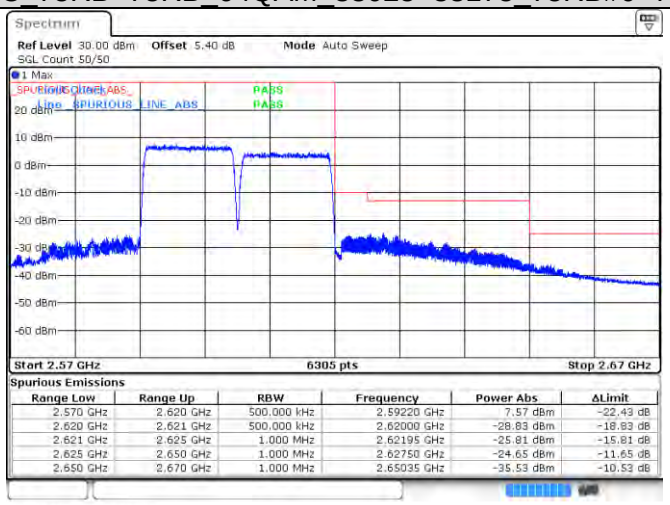

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	500.000 kHz	2.59220 GHz	7.57 dBm	-22.43 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-28.83 dBm	-18.83 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62195 GHz	-25.81 dBm	-15.81 dB
2.625 GHz	2.650 GHz	1.000 MHz	2.62750 GHz	-24.65 dBm	-11.65 dB
2.650 GHz	2.670 GHz	1.000 MHz	2.65035 GHz	-35.53 dBm	-10.53 dB

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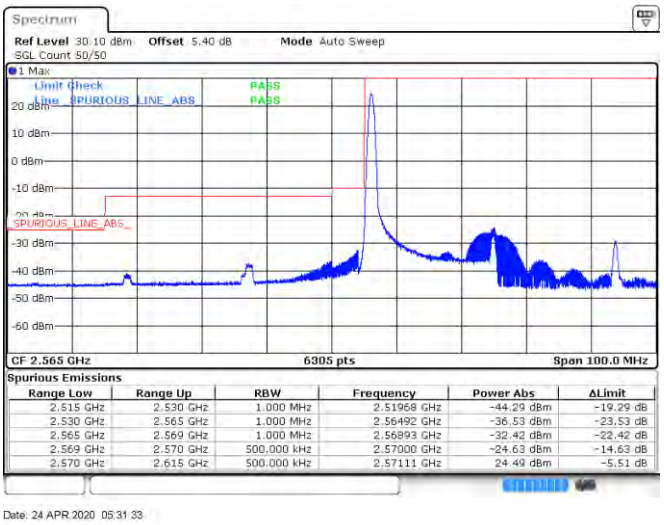

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.530 GHz	1.000 MHz	2.51968 GHz	-44.29 dBm	-19.29 dB
2.530 GHz	2.565 GHz	1.000 MHz	2.56492 GHz	-36.53 dBm	-23.53 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56893 GHz	-32.42 dBm	-22.42 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.57000 GHz	-24.63 dBm	-14.63 dB
2.570 GHz	2.615 GHz	500.000 kHz	2.57111 GHz	24.49 dBm	-5.51 dB

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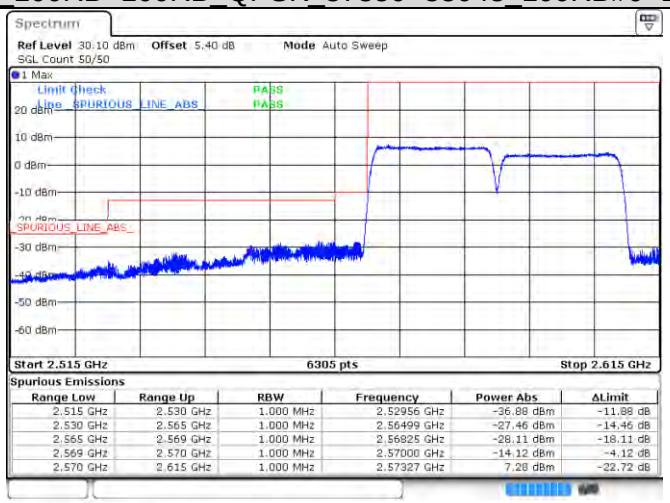

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.530 GHz	1.000 MHz	2.52956 GHz	-36.88 dBm	-11.88 dB
2.530 GHz	2.565 GHz	1.000 MHz	2.56499 GHz	-27.46 dBm	-14.46 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56825 GHz	-28.11 dBm	-18.11 dB
2.569 GHz	2.570 GHz	1.000 MHz	2.57000 GHz	-14.12 dBm	-4.12 dB
2.570 GHz	2.615 GHz	1.000 MHz	2.57327 GHz	7.28 dBm	-22.72 dB

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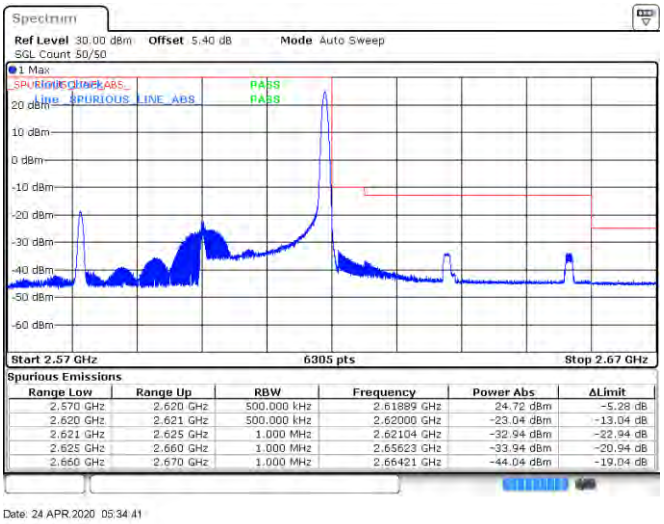

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	500.000 kHz	2.61889 GHz	24.72 dBm	-5.28 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-23.04 dBm	-13.04 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62104 GHz	-32.94 dBm	-22.94 dB
2.625 GHz	2.660 GHz	1.000 MHz	2.65623 GHz	-33.94 dBm	-20.94 dB
2.660 GHz	2.670 GHz	1.000 MHz	2.66421 GHz	-44.04 dBm	-19.04 dB

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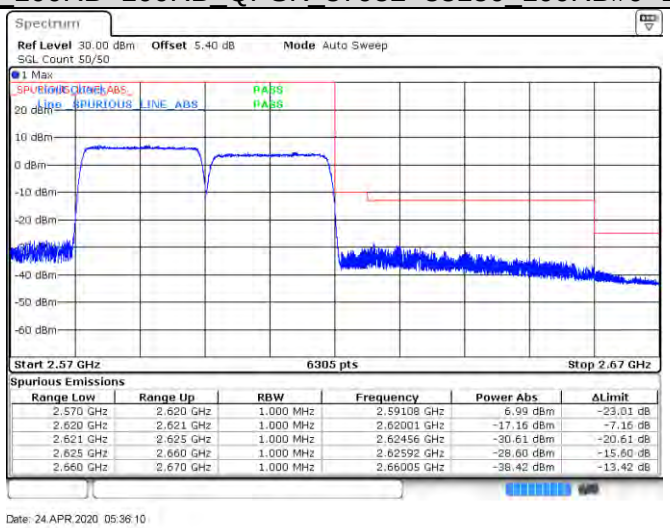

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	1.000 MHz	2.59108 GHz	6.99 dBm	-23.01 dB
2.620 GHz	2.621 GHz	1.000 MHz	2.62001 GHz	-17.16 dBm	-7.16 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62456 GHz	-30.61 dBm	-20.61 dB
2.625 GHz	2.660 GHz	1.000 MHz	2.62592 GHz	-28.60 dBm	-15.60 dB
2.660 GHz	2.670 GHz	1.000 MHz	2.66005 GHz	-38.42 dBm	-13.42 dB

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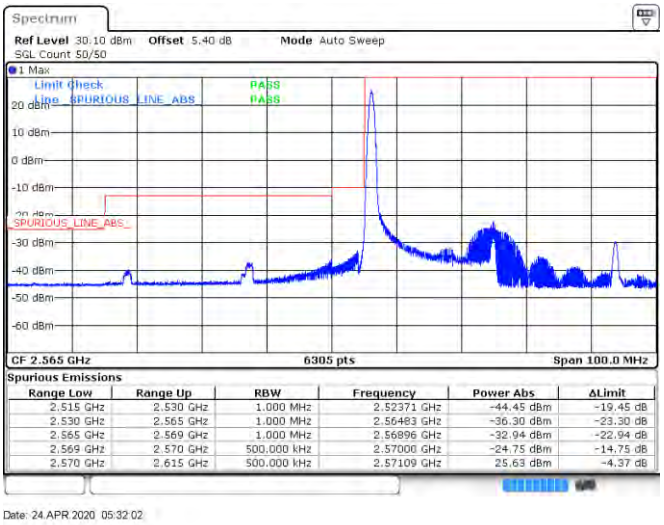

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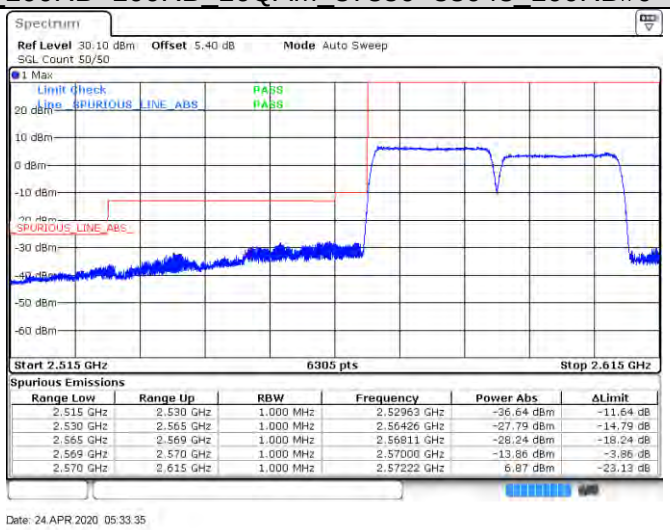

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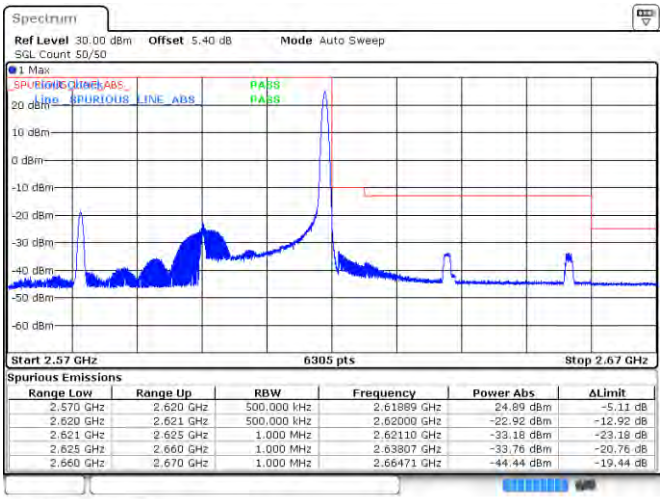

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	500.000 kHz	2.61889 GHz	24.89 dBm	-5.11 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-22.92 dBm	-12.92 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62110 GHz	-33.18 dBm	-23.18 dB
2.625 GHz	2.660 GHz	1.000 MHz	2.63807 GHz	-33.76 dBm	-20.76 dB
2.660 GHz	2.670 GHz	1.000 MHz	2.66471 GHz	-44.44 dBm	-19.44 dB

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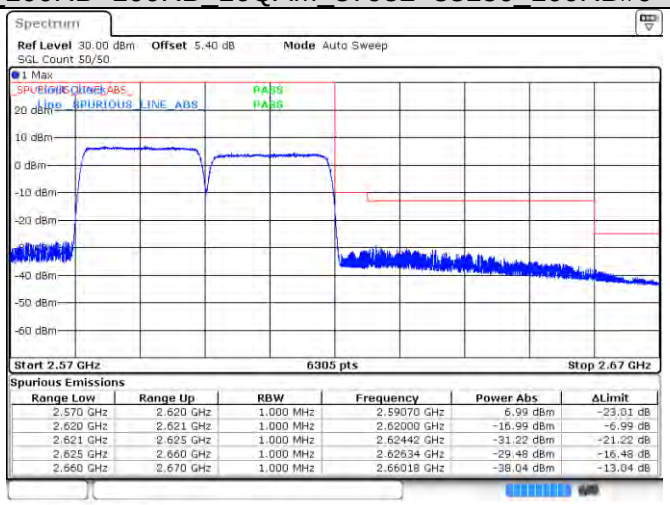

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	1.000 MHz	2.59070 GHz	6.99 dBm	-23.01 dB
2.620 GHz	2.621 GHz	1.000 MHz	2.62000 GHz	-16.99 dBm	-6.99 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62442 GHz	-31.22 dBm	-21.22 dB
2.625 GHz	2.660 GHz	1.000 MHz	2.62634 GHz	-29.48 dBm	-16.48 dB
2.660 GHz	2.670 GHz	1.000 MHz	2.66018 GHz	-38.04 dBm	-13.04 dB

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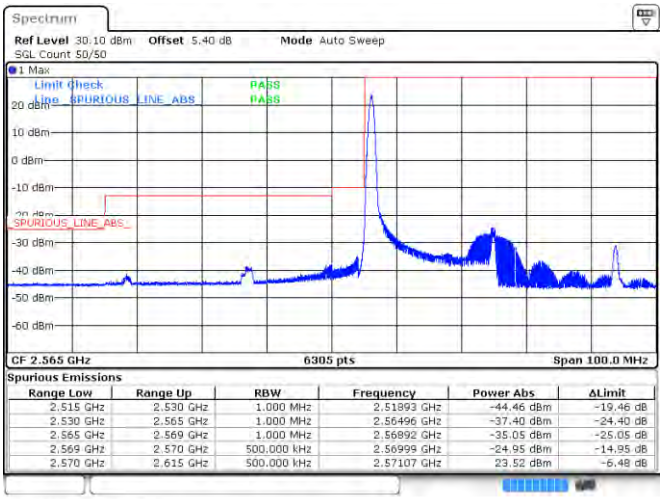

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.530 GHz	1.000 MHz	2.51893 GHz	-44.46 dBm	-19.46 dB
2.530 GHz	2.565 GHz	1.000 MHz	2.56496 GHz	-37.40 dBm	-24.40 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56892 GHz	-35.05 dBm	-25.05 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56999 GHz	-24.95 dBm	-14.95 dB
2.570 GHz	2.615 GHz	500.000 kHz	2.57107 GHz	23.52 dBm	-6.48 dB

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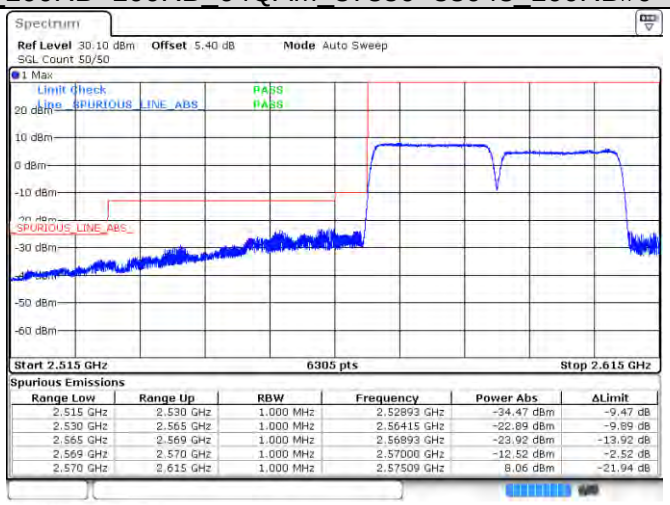

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.515 GHz	2.530 GHz	1.000 MHz	2.52893 GHz	-34.47 dBm	-9.47 dB
2.530 GHz	2.565 GHz	1.000 MHz	2.56415 GHz	-22.89 dBm	-9.89 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56893 GHz	-23.92 dBm	-13.92 dB
2.569 GHz	2.570 GHz	1.000 MHz	2.57000 GHz	-12.52 dBm	-2.52 dB
2.570 GHz	2.615 GHz	1.000 MHz	2.57509 GHz	8.06 dBm	-21.94 dB

Date: 24.APR.2020 05:34:03

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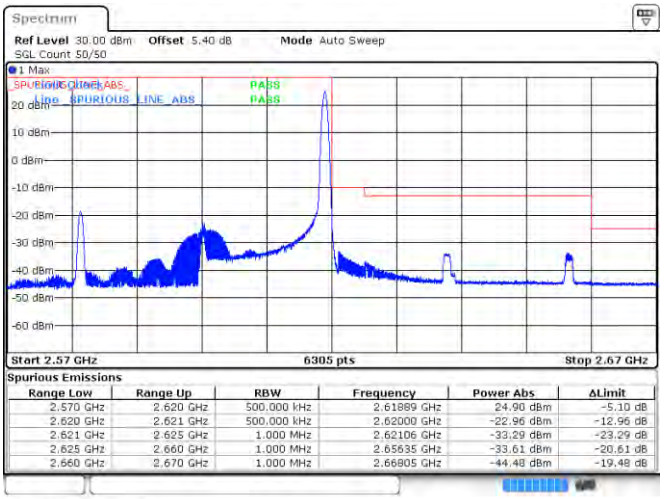

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	500.000 kHz	2.61889 GHz	24.90 dBm	-5.10 dB
2.620 GHz	2.621 GHz	500.000 kHz	2.62000 GHz	-22.96 dBm	-12.96 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62106 GHz	-33.29 dBm	-23.29 dB
2.625 GHz	2.660 GHz	1.000 MHz	2.65635 GHz	-33.61 dBm	-20.61 dB
2.660 GHz	2.670 GHz	1.000 MHz	2.66805 GHz	-44.48 dBm	-19.48 dB

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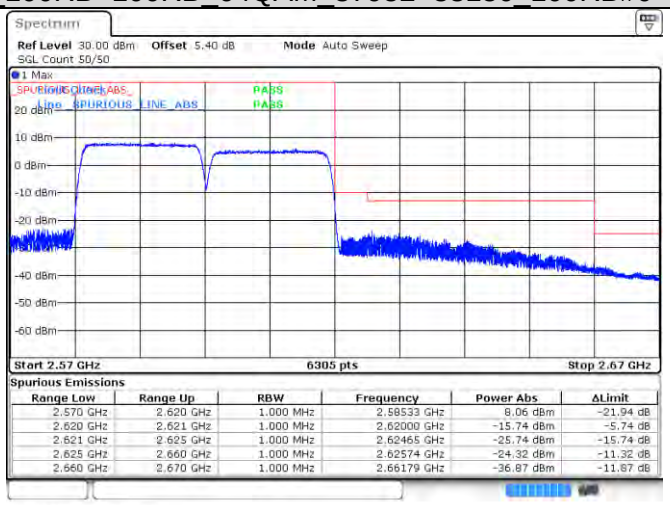

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.570 GHz	2.620 GHz	1.000 MHz	2.58533 GHz	8.06 dBm	-21.94 dB
2.620 GHz	2.621 GHz	1.000 MHz	2.62000 GHz	-15.74 dBm	-5.74 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62465 GHz	-25.74 dBm	-15.74 dB
2.625 GHz	2.660 GHz	1.000 MHz	2.62574 GHz	-24.32 dBm	-11.32 dB
2.660 GHz	2.670 GHz	1.000 MHz	2.66179 GHz	-36.87 dBm	-11.87 dB

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6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE Band CA_38C

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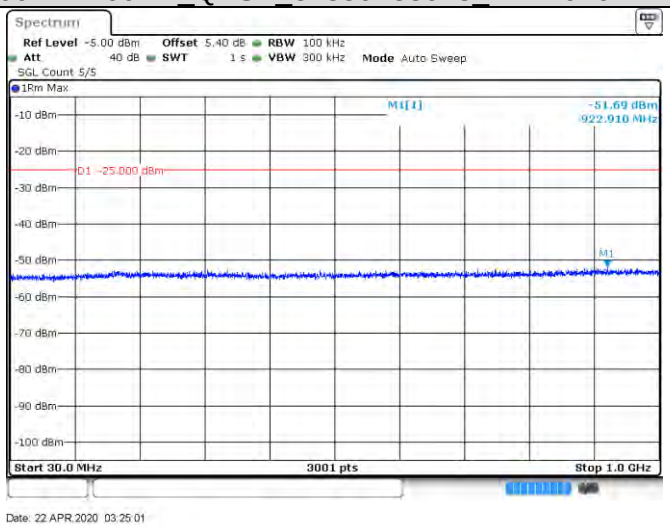

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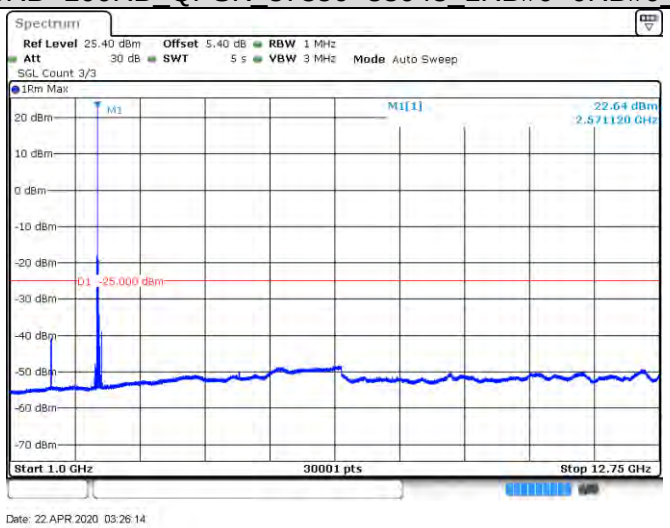

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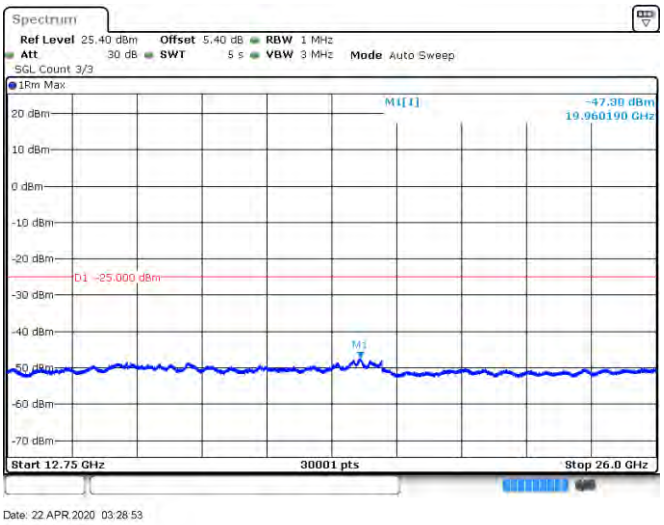

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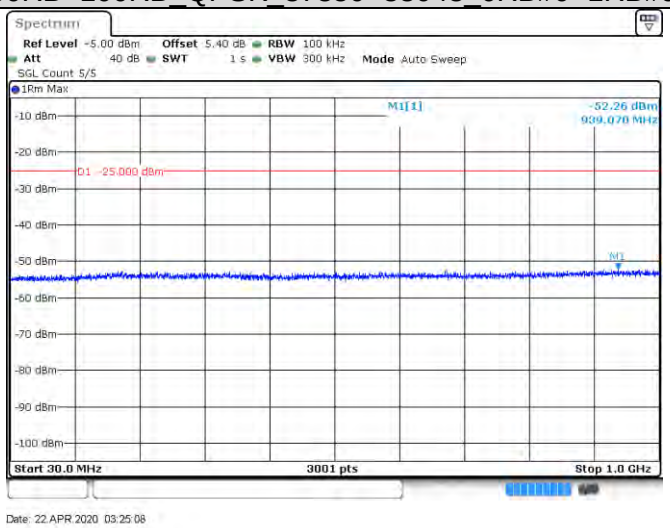

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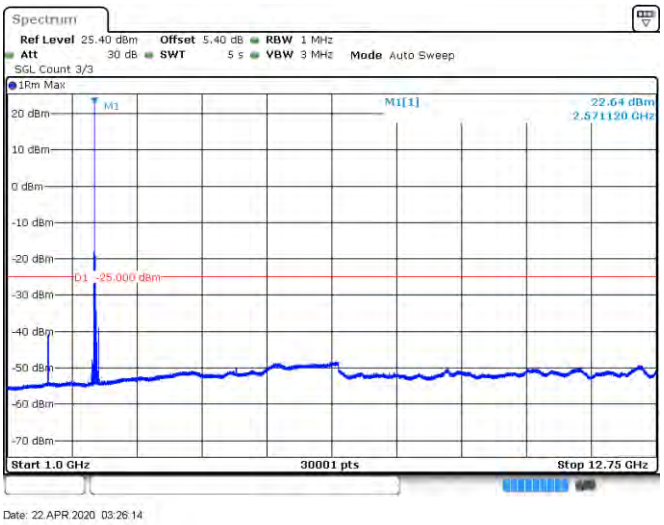

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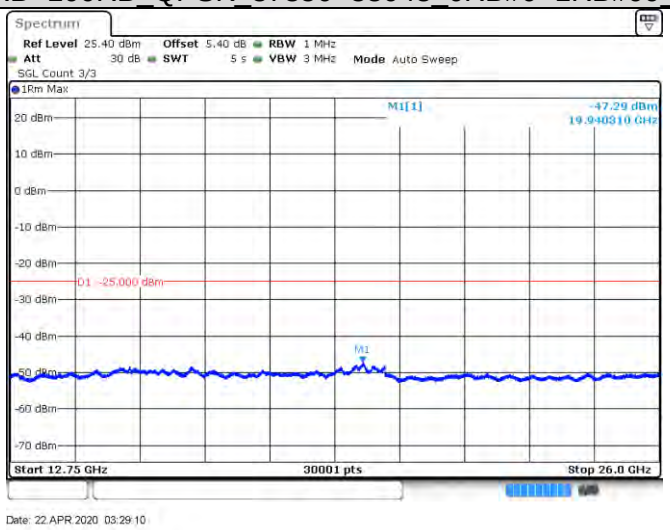

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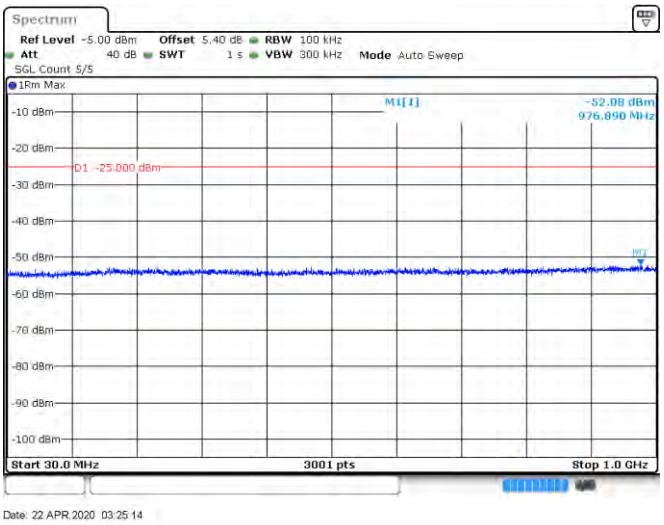

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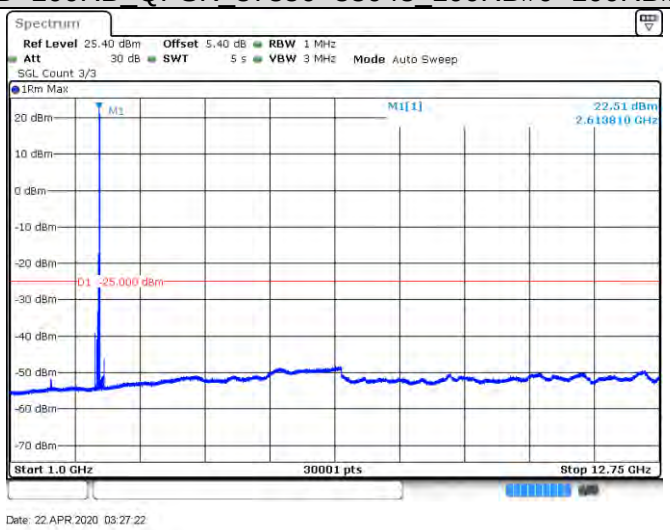

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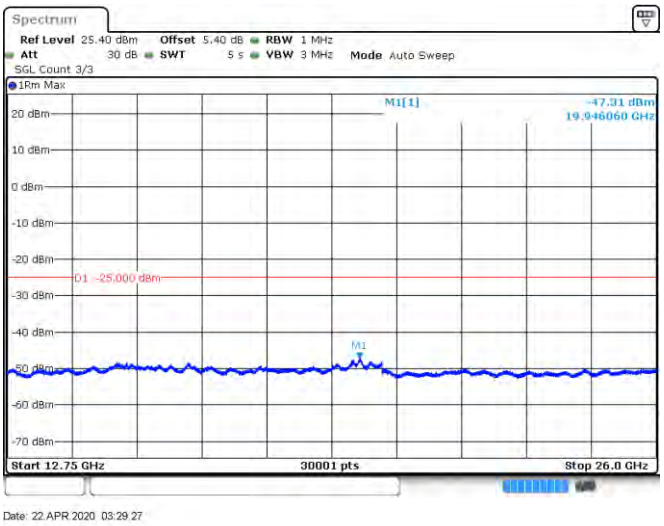

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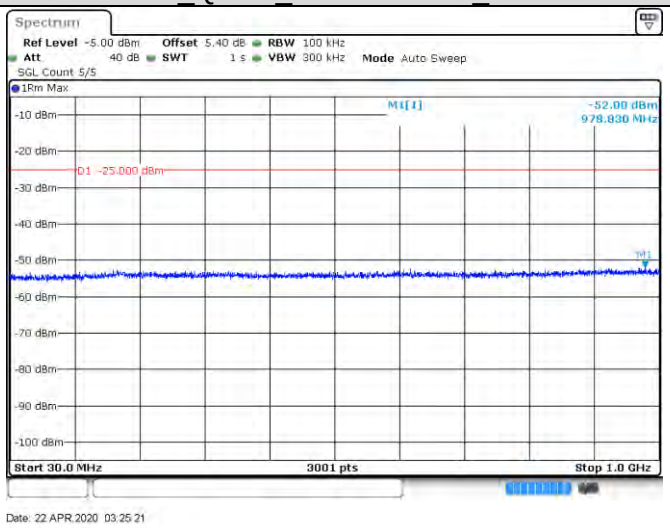

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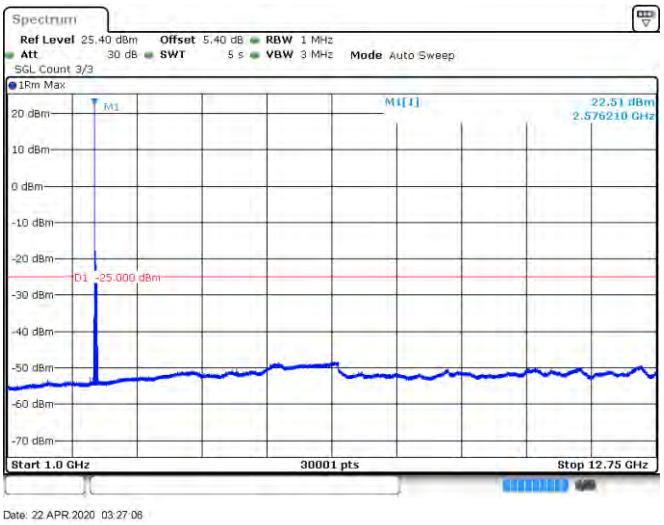

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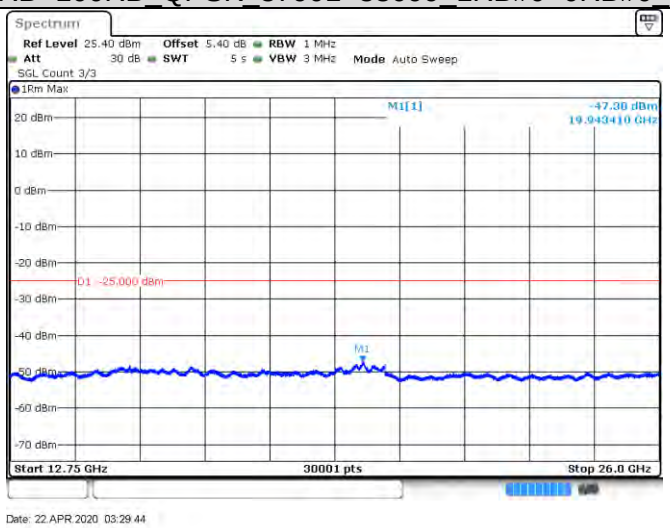

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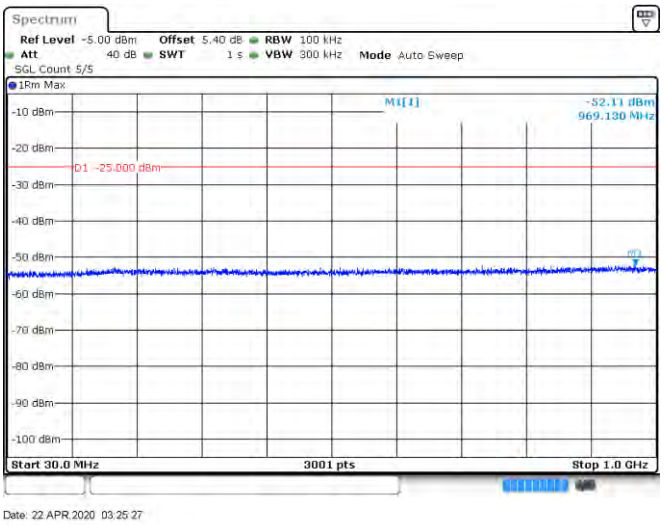

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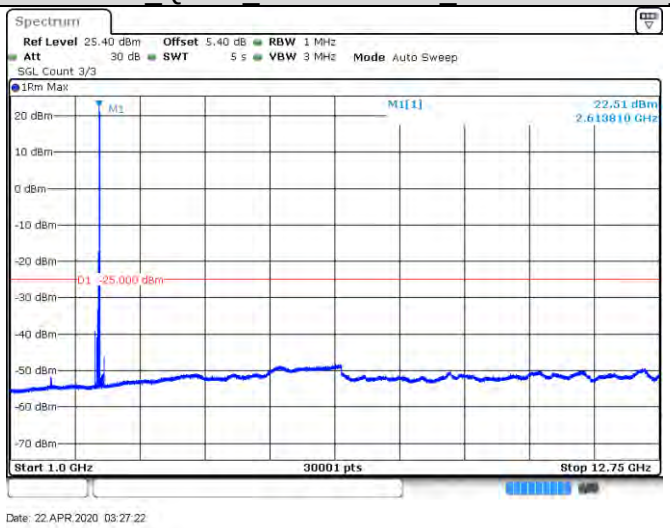

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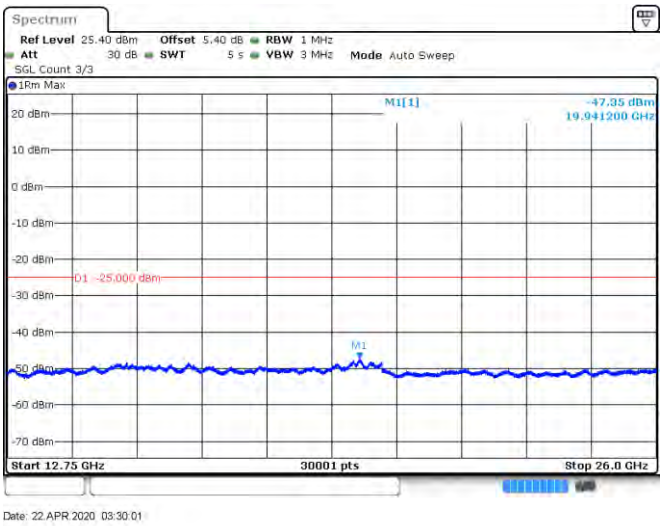

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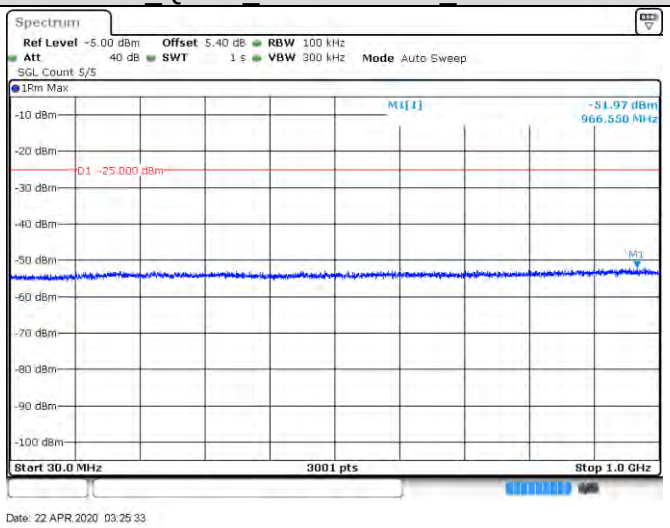

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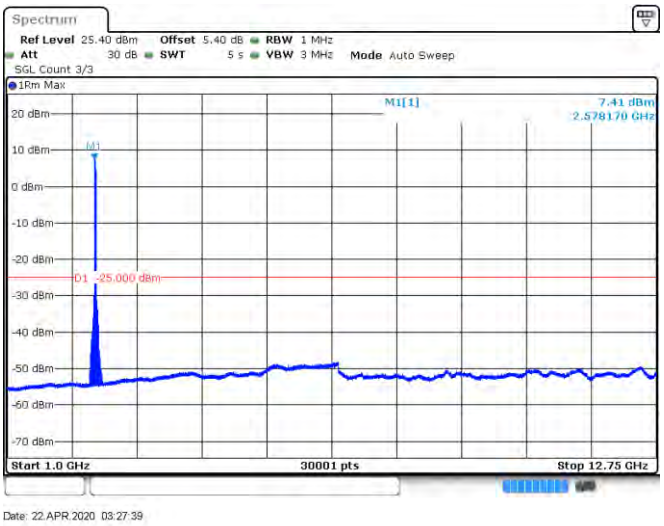

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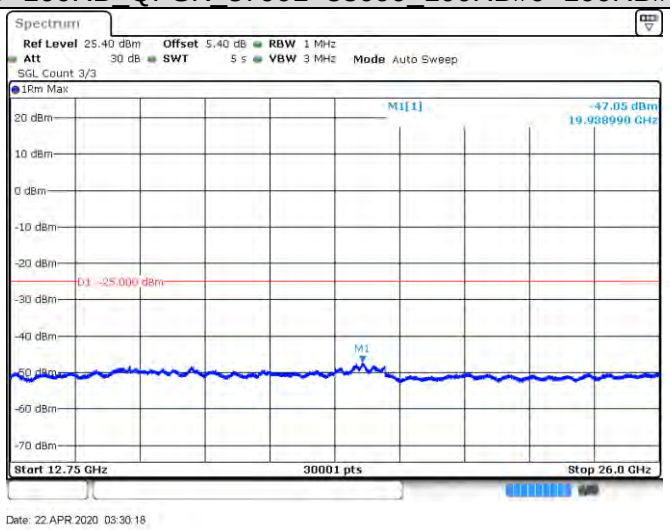

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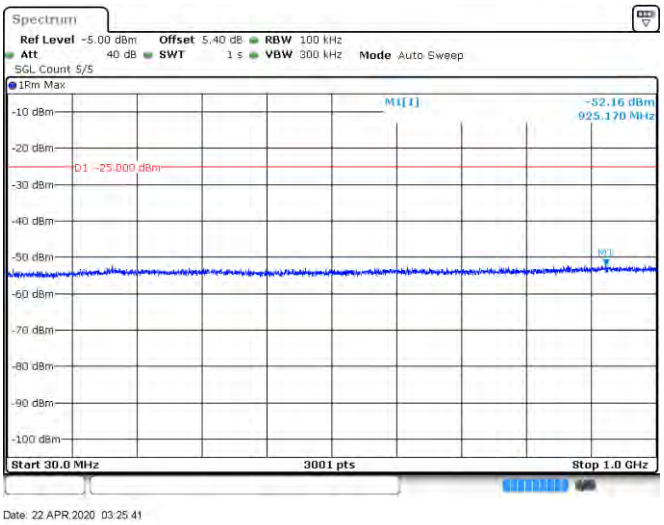

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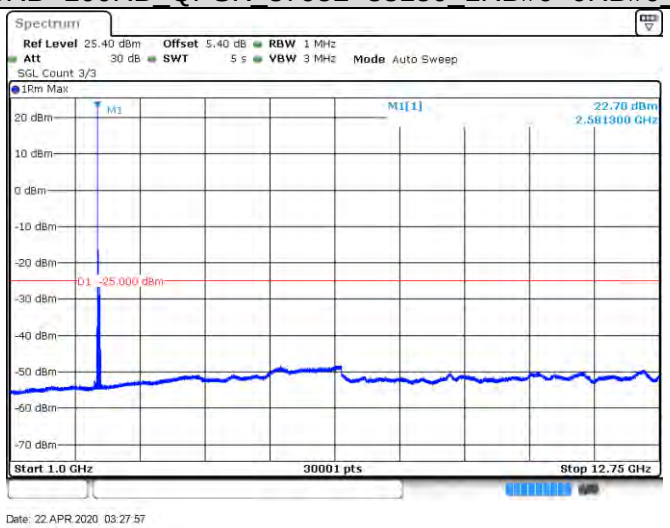

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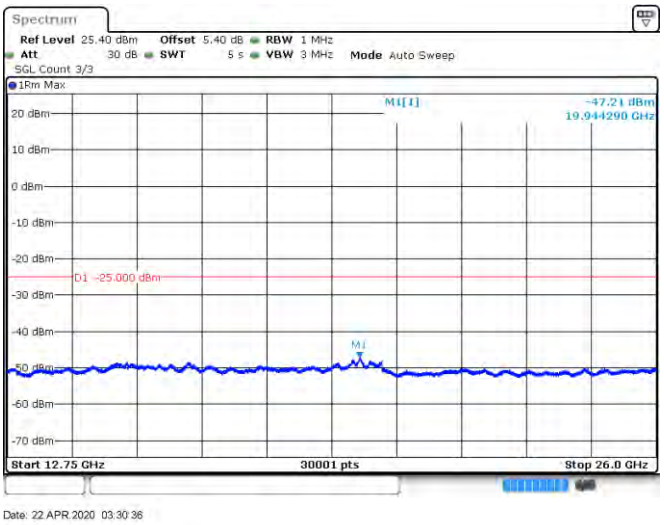

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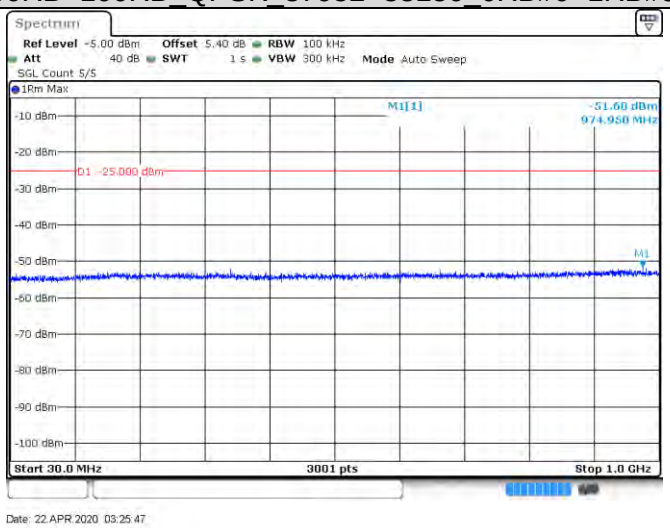

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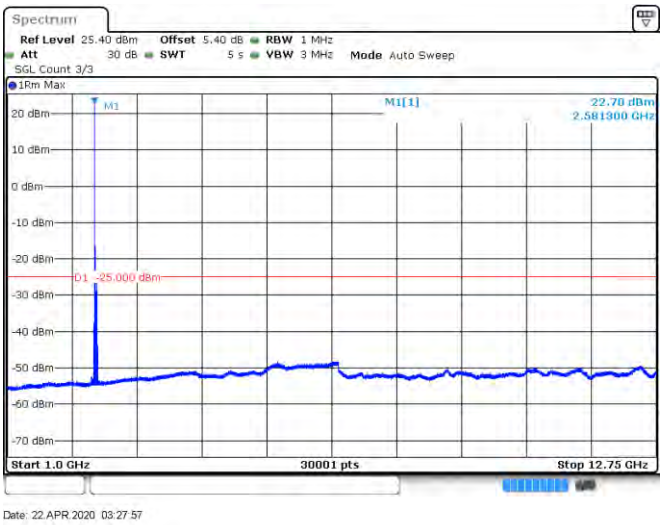

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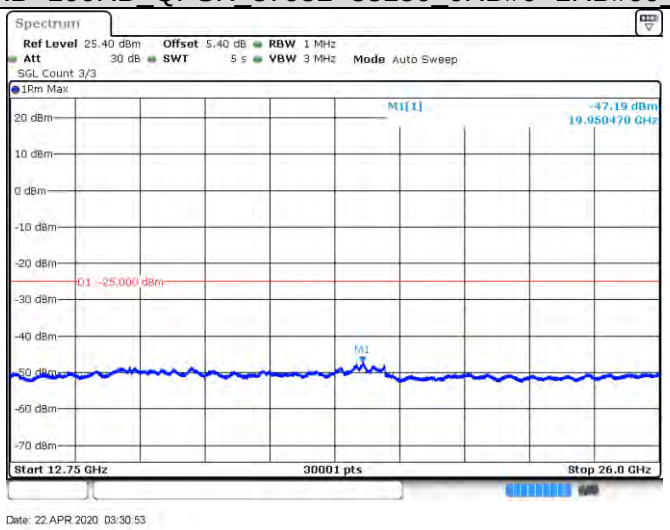

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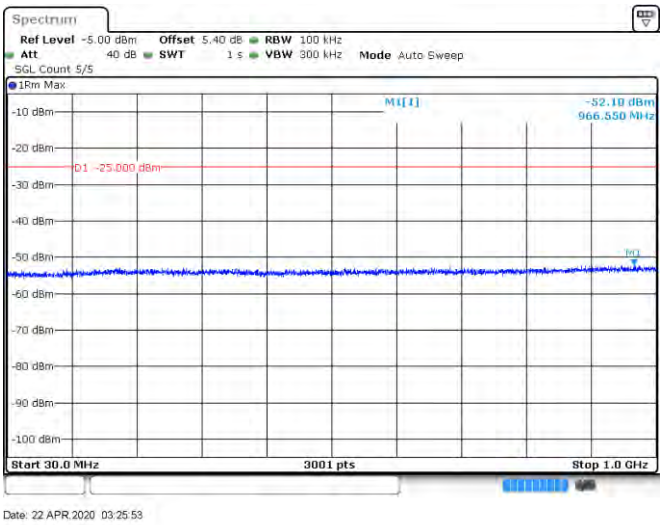

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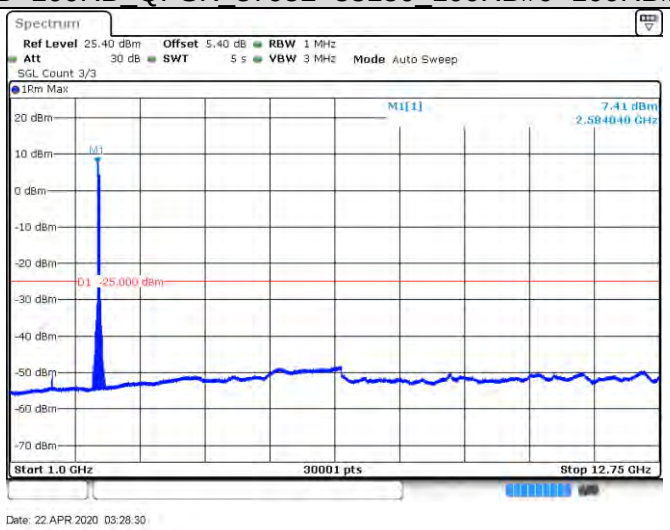

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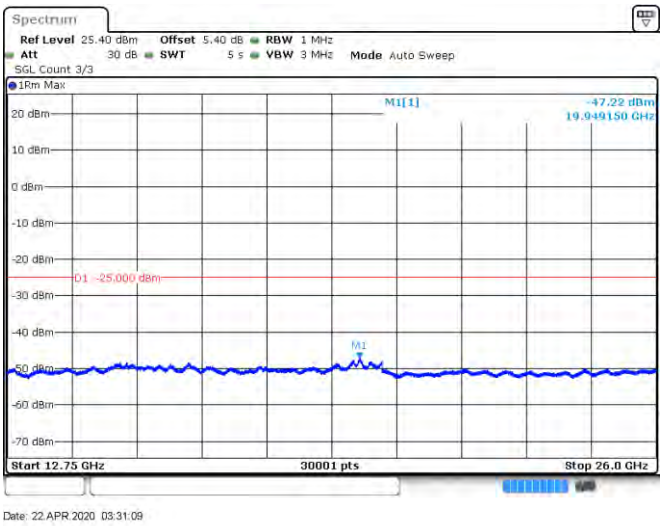

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7 Field Strength of Spurious Radiation

7.1 For LTE UL CA

7.1.1 Test Band = LTE Band CA_38C (Down Ant)

7.1.1.1 Test Mode =LTE/QPSK

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.6688	-64.21	-25.00	39.21	Vertical
530.3584	-64.79	-25.00	39.79	Vertical
1719.4291	-43.83	-25.00	18.83	Vertical
8004.7841	-54.63	-25.00	29.63	Vertical
14475.5105	-45.87	-25.00	20.87	Vertical
17998.4965	-38.08	-25.00	13.08	Vertical
39.6846	-63.37	-25.00	38.37	Horizontal
514.1264	-65.03	-25.00	40.03	Horizontal
1743.2023	-43.88	-25.00	18.88	Horizontal
7479.4054	-55.20	-25.00	30.20	Horizontal
16382.2756	-41.68	-25.00	16.68	Horizontal
17995.0571	-43.40	-25.00	18.40	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7662	-64.15	-25.00	39.15	Vertical
748.5898	-61.06	-25.00	36.06	Vertical
1711.3800	-43.08	-25.00	18.08	Vertical
7416.2298	-54.45	-25.00	29.45	Vertical
14697.1779	-45.80	-25.00	20.80	Vertical
17999.4574	-38.10	-25.00	13.10	Vertical
40.0383	-63.13	-25.00	38.13	Horizontal
686.9776	-62.90	-25.00	37.90	Horizontal
1798.9094	-43.15	-25.00	18.15	Horizontal
7460.6785	-54.55	-25.00	29.55	Horizontal
16385.6065	-41.56	-25.00	16.56	Horizontal
17997.8955	-42.69	-25.00	17.69	Horizontal

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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.9764	-64.90	-25.00	39.90	Vertical
623.4934	-62.88	-25.00	37.88	Vertical
1725.7832	-43.09	-25.00	18.09	Vertical
7343.4614	-55.02	-25.00	30.02	Vertical
14710.4074	-46.24	-25.00	21.24	Vertical
17999.7328	-38.12	-25.00	13.12	Vertical
40.5165	-62.43	-25.00	37.43	Horizontal
557.3412	-64.74	-25.00	39.74	Horizontal
1794.2652	-42.91	-25.00	17.91	Horizontal
7451.1938	-54.85	-25.00	29.85	Horizontal
16384.5064	-41.87	-25.00	16.87	Horizontal
17998.1790	-43.49	-25.00	18.49	Horizontal

7.1.2 Test Band = LTE Band CA_38C (Up Ant)

7.1.2.1 Test Mode =LTE/QPSK

7.1.2.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.8748	-64.43	-25.00	39.43	Vertical
529.9146	-65.40	-25.00	40.40	Vertical
1719.3749	-43.79	-25.00	18.79	Vertical
8005.2651	-54.16	-25.00	29.16	Vertical
14475.7546	-45.70	-25.00	20.70	Vertical
17998.0314	-38.86	-25.00	13.86	Vertical
39.9742	-63.71	-25.00	38.71	Horizontal
514.1366	-64.69	-25.00	39.69	Horizontal
1742.5528	-43.96	-25.00	18.96	Horizontal
7479.6897	-54.52	-25.00	29.52	Horizontal
16382.2080	-42.42	-25.00	17.42	Horizontal
17994.5542	-43.71	-25.00	18.71	Horizontal

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7.1.2.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7810	-64.79	-25.00	39.79	Vertical
749.1597	-61.19	-25.00	36.19	Vertical
1710.7963	-43.07	-25.00	18.07	Vertical
7416.4669	-54.29	-25.00	29.29	Vertical
14697.6624	-46.54	-25.00	21.54	Vertical
17999.4816	-38.19	-25.00	13.19	Vertical
39.9863	-62.77	-25.00	37.77	Horizontal
686.6663	-63.53	-25.00	38.53	Horizontal
1799.0798	-42.52	-25.00	17.52	Horizontal
7460.2864	-54.40	-25.00	29.40	Horizontal
16385.4870	-41.75	-25.00	16.75	Horizontal
17997.5117	-43.20	-25.00	18.20	Horizontal

7.1.2.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.7508	-64.98	-25.00	39.98	Vertical
624.2993	-62.86	-25.00	37.86	Vertical
1726.6533	-43.46	-25.00	18.46	Vertical
7343.2858	-54.62	-25.00	29.62	Vertical
14710.5203	-46.11	-25.00	21.11	Vertical
18000.2094	-38.64	-25.00	13.64	Vertical
40.8061	-62.87	-25.00	37.87	Horizontal
558.0261	-64.19	-25.00	39.19	Horizontal
1793.3603	-43.15	-25.00	18.15	Horizontal
7451.8021	-54.11	-25.00	29.11	Horizontal
16384.7879	-42.25	-25.00	17.25	Horizontal
17997.6979	-42.84	-25.00	17.84	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	LV	-6.49	-0.002514	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	NV	-1.04	-0.000404	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	HV	-9.10	-0.003527	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	LV	-5.29	-0.002045	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	NV	8.81	0.003407	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	HV	-8.47	-0.003275	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	LV	0.49	0.000188	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	NV	-6.70	-0.002587	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	HV	-3.92	-0.001514	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	LV	0.18	0.000071	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	NV	-4.35	-0.001685	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	HV	-2.51	-0.000971	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	LV	-3.32	-0.001283	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	NV	10.84	0.004194	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	HV	11.43	0.004422	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	LV	7.40	0.002856	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	NV	0.47	0.000182	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	HV	3.10	0.001198	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	LV	2.21	0.000857	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	NV	-4.41	-0.001708	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	HV	-8.19	-0.003173	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	LV	3.65	0.001411	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	NV	-6.32	-0.002445	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	HV	-6.59	-0.002551	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	LV	-1.49	-0.000575	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	NV	-1.15	-0.000444	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	HV	-11.53	-0.004453	PASS

8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-30	-10.62	-0.004115	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-20	4.71	0.001824	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-10	-9.07	-0.003516	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	0	4.05	0.001570	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	10	-2.60	-0.001007	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	20	9.01	0.003491	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	30	-12.08	-0.004681	PASS

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CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	40	8.27	0.003206	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	50	4.51	0.001748	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-30	10.85	0.004196	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-20	5.02	0.001942	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-10	1.78	0.000687	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	0	1.56	0.000605	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	10	-1.82	-0.000704	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	20	5.86	0.002266	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	30	-11.63	-0.004501	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	40	-8.74	-0.003379	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	50	2.91	0.001125	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-30	-9.80	-0.003784	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-20	2.06	0.000796	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-10	-7.36	-0.002842	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	0	-0.28	-0.000106	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	10	4.86	0.001876	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	20	5.29	0.002044	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	30	5.34	0.002062	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	40	-3.89	-0.001500	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	50	8.15	0.003147	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-30	-0.89	-0.000343	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-20	3.97	0.001538	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-10	-1.93	-0.000747	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	0	8.87	0.003438	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	10	-7.07	-0.002739	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	20	0.10	0.000038	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	30	-12.36	-0.004790	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	40	13.22	0.005123	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	50	5.60	0.002171	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-30	-4.66	-0.001803	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-20	-11.82	-0.004571	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-10	-7.32	-0.002831	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	0	-6.45	-0.002496	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	10	4.54	0.001756	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	20	7.55	0.002922	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	30	1.98	0.000764	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	40	5.74	0.002219	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	50	9.40	0.003635	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-30	-0.23	-0.000090	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-20	-2.18	-0.000840	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-10	-1.61	-0.000621	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	0	-10.45	-0.004033	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	10	5.31	0.002049	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	20	-7.52	-0.002904	PASS

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CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	30	8.12	0.003134	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	40	3.13	0.001208	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	50	-10.76	-0.004152	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-30	-6.72	-0.002606	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-20	3.89	0.001507	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-10	-7.50	-0.002907	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	0	-8.53	-0.003306	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	10	4.87	0.001889	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	20	-0.71	-0.000276	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	30	0.13	0.000049	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	40	8.26	0.003203	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	50	0.77	0.000298	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-30	8.22	0.003181	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-20	6.07	0.002349	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-10	2.70	0.001046	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	0	0.18	0.000069	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	10	3.42	0.001324	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	20	-4.52	-0.001748	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	30	1.77	0.000685	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	40	3.77	0.001459	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	50	7.71	0.002984	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-30	-12.55	-0.004845	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-20	-6.05	-0.002335	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-10	-11.90	-0.004594	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	0	-4.40	-0.001700	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	10	10.14	0.003915	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	20	11.48	0.004434	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	30	-0.62	-0.000241	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	40	-12.63	-0.004876	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	50	5.47	0.002110	PASS

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