



Appendix B

E-UTRA Band CA_38C



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



CONTENT

Page

1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	3
1.1 TEST RESULT FOR LTE BAND CA_38C (ANT0)	3
1.2 TEST RESULT FOR LTE BAND CA_38C (ANT2)	4
1.3 TEST RESULT FOR LTE BAND CA_38C (ANT3)	6
2 PEAK-TO-AVERAGE RATIO	9
2.1 FOR LTE.....	10
2.1.1 Test Band = LTE Band CA_38C.....	10
3 MODULATION CHARACTERISTICS.....	20
3.1 FOR LTE.....	20
3.1.1 Test Band = LTE Band CA_38C.....	20
4 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	23
4.1 FOR LTE.....	24
4.1.1 Test Band = LTE Band CA_38C.....	24
5 BAND EDGES COMPLIANCE	42
5.1 FOR LTE.....	42
5.1.1 Test Band = LTE Band CA_38C.....	42
6 SPURIOUS EMISSION AT ANTENNA TERMINAL	55
6.1 FOR LTE.....	55
6.1.1 Test Band = LTE Band CA_38C.....	55
7 FIELD STRENGTH OF SPURIOUS RADIATION.....	82
7.1 FOR LTE UL CA.....	82
7.1.1 Test Band = LTE Band CA_38C (Ant0)	82
7.1.2 Test Band = LTE Band CA_38C (Ant2)	83
7.1.3 Test Band = LTE Band CA_38C (Ant3)	84
8 FREQUENCY STABILITY.....	86
8.1 FREQUENCY ERROR VS. VOLTAGE	86
8.2 FREQUENCY ERROR VS. TEMPERATURE.....	86





1 Effective (Isotropic) Radiated Power Output Data

1.1 Test Result for LTE Band CA_38C (Ant0)

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	22.02	18.22	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	21.96	18.16	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	22.12	18.32	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	22.42	18.62	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	22.08	18.28	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	22.05	18.25	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	QPSK	22.31	18.51	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	QPSK	22.18	18.38	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	QPSK	22.00	18.20	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	QPSK	22.44	18.64	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	QPSK	22.55	18.75	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	QPSK	22.30	18.50	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	22.21	18.41	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	22.12	18.32	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	21.96	18.16	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	22.37	18.57	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	22.11	18.31	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	21.96	18.16	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	QPSK	22.37	18.57	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	QPSK	22.39	18.59	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	QPSK	22.30	18.50	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	QPSK	22.44	18.64	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	QPSK	22.34	18.54	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	QPSK	22.49	18.69	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	21.40	17.60	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	21.38	17.58	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	21.27	17.47	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	21.59	17.79	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	21.46	17.66	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	21.25	17.45	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	16QAM	21.48	17.68	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	16QAM	21.38	17.58	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	16QAM	21.46	17.66	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	16QAM	21.87	18.07	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	16QAM	21.43	17.63	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	16QAM	21.48	17.68	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	21.25	17.45	33.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch and Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	21.17	17.37	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	21.10	17.30	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	21.51	17.71	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	21.24	17.44	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	21.15	17.35	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	16QAM	21.66	17.86	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	16QAM	21.53	17.73	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	16QAM	21.42	17.62	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	16QAM	21.66	17.86	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	16QAM	21.59	17.79	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	16QAM	21.52	17.72	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	20.29	16.49	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	20.20	16.40	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	20.02	16.22	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	20.42	16.62	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	20.33	16.53	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	20.24	16.44	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	64QAM	20.50	16.70	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	64QAM	20.35	16.55	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	64QAM	20.35	16.55	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	64QAM	20.74	16.94	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	64QAM	20.61	16.81	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	64QAM	20.45	16.65	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	20.30	16.50	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	20.41	16.61	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	20.22	16.42	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	20.57	16.77	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	20.33	16.53	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	20.37	16.57	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	64QAM	20.45	16.65	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	64QAM	20.41	16.61	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	64QAM	20.27	16.47	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	64QAM	20.65	16.85	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	64QAM	20.68	16.88	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	64QAM	20.39	16.59	33.00	PASS

1.2 Test Result for LTE Band CA_38C (Ant2)

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	23.41	23.11	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	23.54	23.24	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	23.50	23.20	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	23.59	23.29	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	23.36	23.06	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	23.12	22.82	33.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	QPSK	23.78	23.48	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	QPSK	23.82	23.52	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	QPSK	23.42	23.12	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	QPSK	23.69	23.39	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	QPSK	23.65	23.35	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	QPSK	23.57	23.27	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	23.59	23.29	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	23.48	23.18	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	23.44	23.14	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	23.58	23.28	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	23.35	23.05	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	23.12	22.82	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	QPSK	23.72	23.42	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	QPSK	23.68	23.38	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	QPSK	23.49	23.19	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	QPSK	23.68	23.38	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	QPSK	23.74	23.44	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	QPSK	23.79	23.49	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	22.53	22.23	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	22.61	22.31	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	22.66	22.36	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	22.71	22.41	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	22.54	22.24	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	22.48	22.18	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	16QAM	22.95	22.65	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	16QAM	22.97	22.67	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	16QAM	22.79	22.49	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	16QAM	22.96	22.66	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	16QAM	22.73	22.43	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	16QAM	22.67	22.37	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	22.76	22.46	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	22.44	22.14	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	22.43	22.13	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	22.86	22.56	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	22.73	22.43	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	22.67	22.37	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	16QAM	22.86	22.56	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	16QAM	22.79	22.49	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	16QAM	22.70	22.40	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	16QAM	22.91	22.61	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	16QAM	23.02	22.72	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	16QAM	22.55	22.25	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	21.38	21.08	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	21.20	20.90	33.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2601 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	21.21	20.91	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	21.37	21.07	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	21.22	20.92	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	21.30	21.00	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	64QAM	21.48	21.18	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	64QAM	21.64	21.34	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	64QAM	21.37	21.07	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	64QAM	21.65	21.35	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	64QAM	21.27	20.97	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	64QAM	21.30	21.00	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	21.19	20.89	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	21.06	20.76	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	21.29	20.99	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	21.51	21.21	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	21.50	21.20	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	21.15	20.85	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	64QAM	21.57	21.27	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	64QAM	21.60	21.30	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	64QAM	21.27	20.97	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	64QAM	21.53	21.23	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	64QAM	21.40	21.10	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	64QAM	21.21	20.91	33.00	PASS

1.3 Test Result for LTE Band CA_38C (Ant3)

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	23.01	22.91	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	22.80	22.70	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	22.68	22.58	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	22.82	22.72	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	22.85	22.75	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	22.69	22.59	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	QPSK	23.08	22.98	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	QPSK	22.93	22.83	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	QPSK	22.85	22.75	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	QPSK	23.23	23.13	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	QPSK	23.05	22.95	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	QPSK	23.15	23.05	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	22.85	22.75	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	22.95	22.85	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	22.83	22.73	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	22.75	22.65	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	22.91	22.81	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	22.81	22.71	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	QPSK	23.17	23.07	33.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2601443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	QPSK	23.12	23.02	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	QPSK	22.92	22.82	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	QPSK	23.25	23.15	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	QPSK	22.95	22.85	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	QPSK	23.26	23.16	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	21.92	21.82	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	21.86	21.76	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	21.96	21.86	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	22.10	22.00	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	22.15	22.05	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	22.10	22.00	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	16QAM	22.23	22.13	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	16QAM	22.40	22.30	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	16QAM	22.31	22.21	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	16QAM	22.43	22.33	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	16QAM	22.29	22.19	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	16QAM	22.06	21.96	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	22.21	22.11	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	22.11	22.01	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	22.07	21.97	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	22.06	21.96	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	21.93	21.83	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	21.83	21.73	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	16QAM	22.36	22.26	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	16QAM	22.16	22.06	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	16QAM	22.34	22.24	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	16QAM	22.18	22.08	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	16QAM	22.00	21.90	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	16QAM	22.13	22.03	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	20.94	20.84	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	21.02	20.92	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	20.69	20.59	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	20.89	20.79	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	21.00	20.90	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	20.71	20.61	33.00	PASS
CA_38C	75RB+75RB	37975+37825	1RB#0	0RB#0	64QAM	21.07	20.97	33.00	PASS
CA_38C	75RB+75RB	37975+37825	16RB#0	0RB#0	64QAM	21.06	20.96	33.00	PASS
CA_38C	75RB+75RB	38075+37925	1RB#0	0RB#0	64QAM	21.03	20.93	33.00	PASS
CA_38C	75RB+75RB	38075+37925	16RB#0	0RB#0	64QAM	21.14	21.04	33.00	PASS
CA_38C	75RB+75RB	38175+38025	1RB#0	0RB#0	64QAM	21.00	20.90	33.00	PASS
CA_38C	75RB+75RB	38175+38025	16RB#0	0RB#0	64QAM	20.70	20.60	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	20.83	20.73	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	20.78	20.68	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	20.76	20.66	33.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2601 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	20.91	20.81	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	20.88	20.78	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	20.89	20.79	33.00	PASS
CA_38C	100RB+100RB	38048+37850	1RB#0	0RB#0	64QAM	21.13	21.03	33.00	PASS
CA_38C	100RB+100RB	38048+37850	18RB#0	0RB#0	64QAM	21.27	21.17	33.00	PASS
CA_38C	100RB+100RB	38099+37901	1RB#0	0RB#0	64QAM	21.06	20.96	33.00	PASS
CA_38C	100RB+100RB	38099+37901	18RB#0	0RB#0	64QAM	20.96	20.86	33.00	PASS
CA_38C	100RB+100RB	38150+37952	1RB#0	0RB#0	64QAM	21.24	21.14	33.00	PASS
CA_38C	100RB+100RB	38150+37952	18RB#0	0RB#0	64QAM	20.89	20.79	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]



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch and Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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	8.38	13.00	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	7.97	13.00	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	7.39	13.00	PASS
CA_38C	QPSK	100RB+100RB	38048+37850	100RB#0	100RB#0	6.81	13.00	PASS
CA_38C	QPSK	100RB+100RB	38099+37901	100RB#0	100RB#0	8.12	13.00	PASS
CA_38C	QPSK	100RB+100RB	38150+37952	100RB#0	100RB#0	6.55	13.00	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	8.55	13.00	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	8.29	13.00	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	7.77	13.00	PASS
CA_38C	16QAM	100RB+100RB	38048+37850	100RB#0	100RB#0	8.32	13.00	PASS
CA_38C	16QAM	100RB+100RB	38099+37901	100RB#0	100RB#0	7.77	13.00	PASS
CA_38C	16QAM	100RB+100RB	38150+37952	100RB#0	100RB#0	8.17	13.00	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	7.88	13.00	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	7.80	13.00	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	8.14	13.00	PASS
CA_38C	64QAM	100RB+100RB	38048+37850	100RB#0	100RB#0	8.26	13.00	PASS
CA_38C	64QAM	100RB+100RB	38099+37901	100RB#0	100RB#0	7.94	13.00	PASS
CA_38C	64QAM	100RB+100RB	38150+37952	100RB#0	100RB#0	7.74	13.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1 For LTE

2.1.1 Test Band = LTE Band CA_38C

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

2.1.1.1.1 Test Channel = 37850+38048



Date: 3. JAN 2020 12:40:42



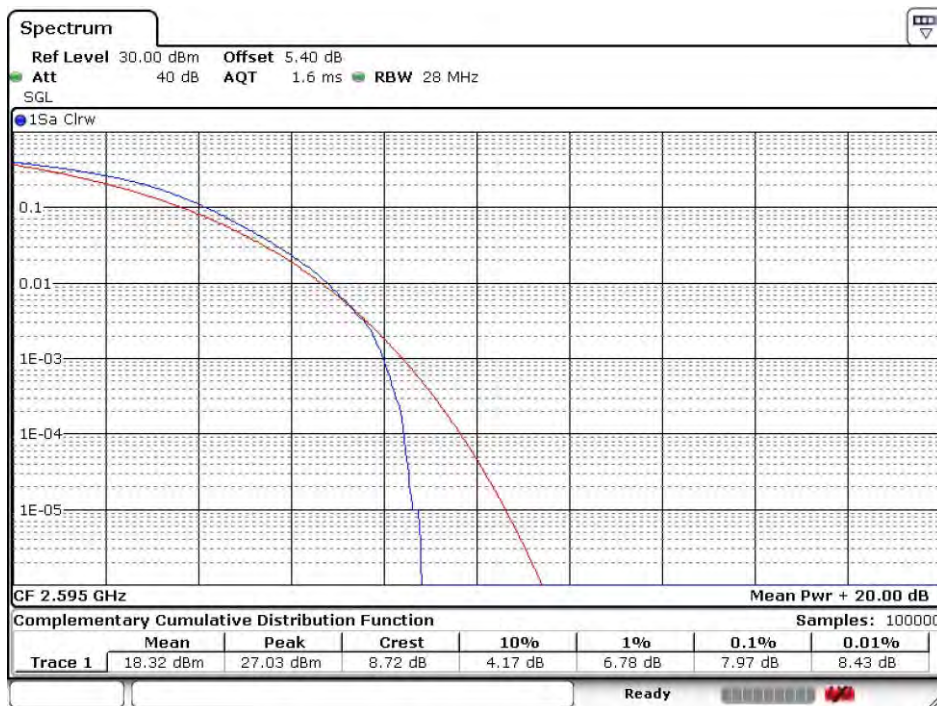
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.1.2 Test Channel = 37901+38099



Date: 3 JAN 2020 12:44:07

2.1.1.1.3 Test Channel = 37952+38150



Date: 3 JAN 2020 12:58:41

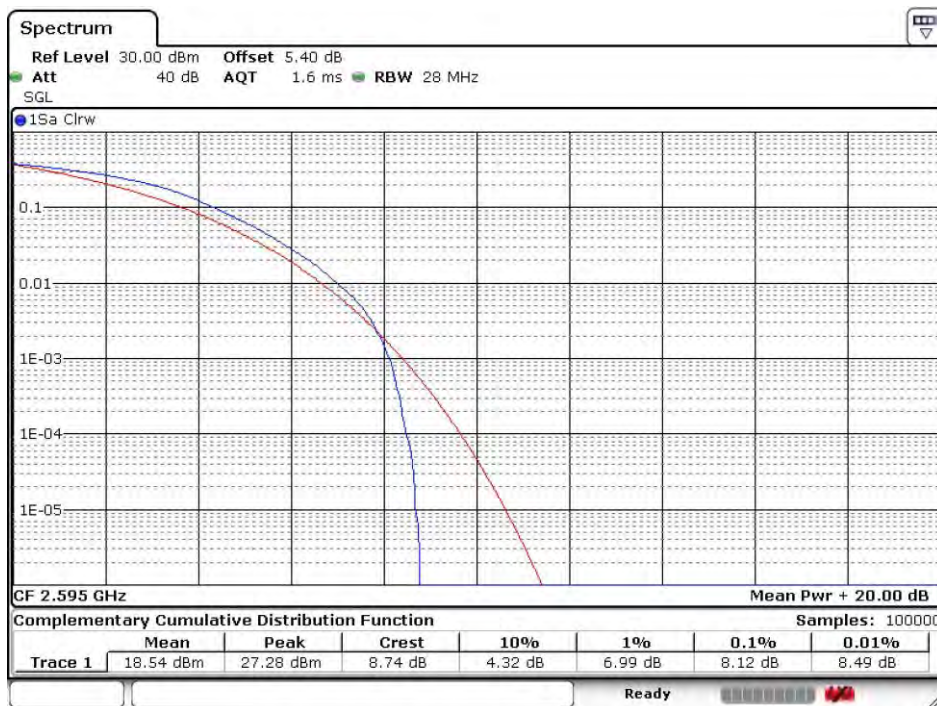


2.1.1.1.4 Test Channel = 38048+37850



Date: 3.JAN.2020 13:00:43

2.1.1.1.5 Test Channel = 38099+37901



Date: 3.JAN.2020 13:02:51



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

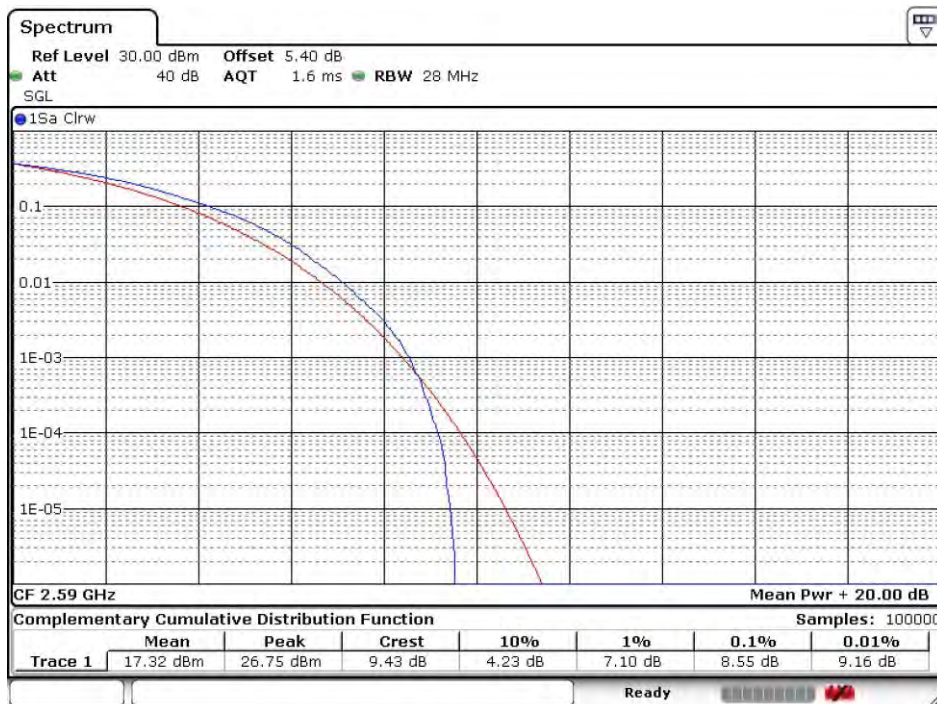
2.1.1.1.6 Test Channel = 38150+37952



Date: 3 JAN 2020 13:06:04

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

2.1.1.2.1 Test Channel = 37850+38048



Date: 3 JAN 2020 12:41:23



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

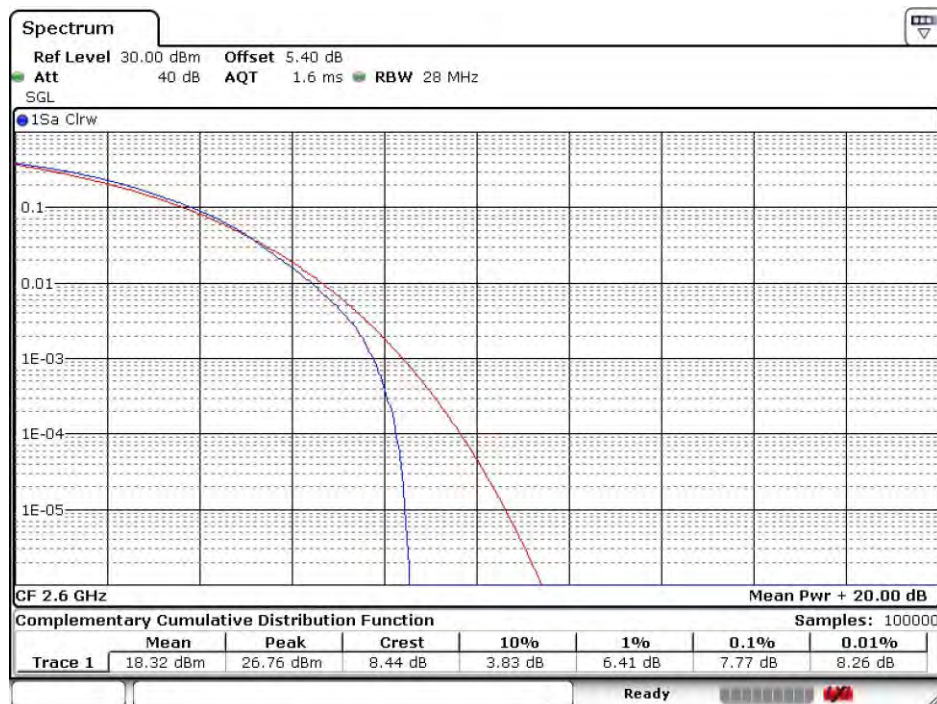
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.2.2 Test Channel = 37901+38099



Date: 3.JAN.2020 12:44:33

2.1.1.2.3 Test Channel = 37952+38150



Date: 3.JAN.2020 12:59:11



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

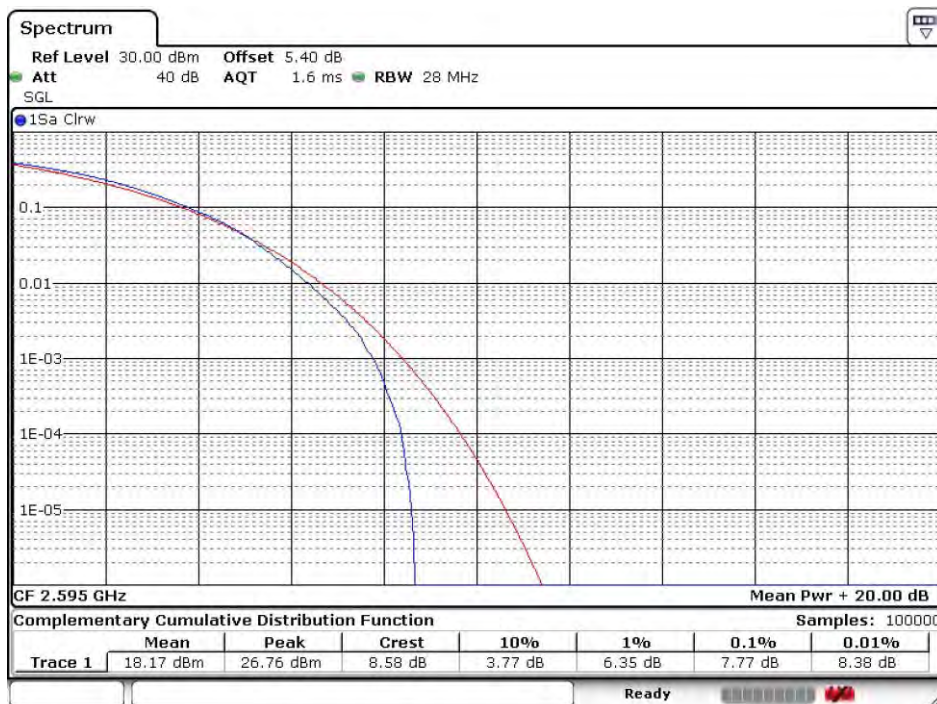
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.2.4 Test Channel = 38048+37850



Date: 3.JAN.2020 13:01:31

2.1.1.2.5 Test Channel = 38099+37901



Date: 3.JAN.2020 13:03:50



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.2.6 Test Channel = 38150+37952



Date: 3 JAN 2020 13:06:47

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

2.1.1.3.1 Test Channel = 37850+38048



Date: 3 JAN 2020 12:41:48



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

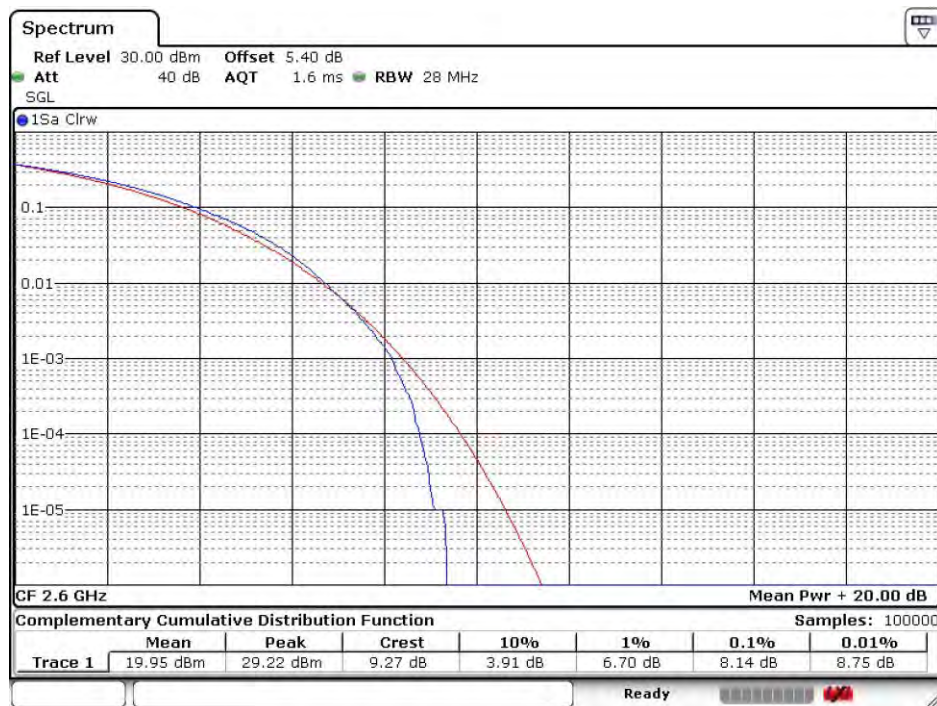
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.3.2 Test Channel = 37901+38099



Date: 3.JAN.2020 12:44:59

2.1.1.3.3 Test Channel = 37952+38150



Date: 3.JAN.2020 12:59:38



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

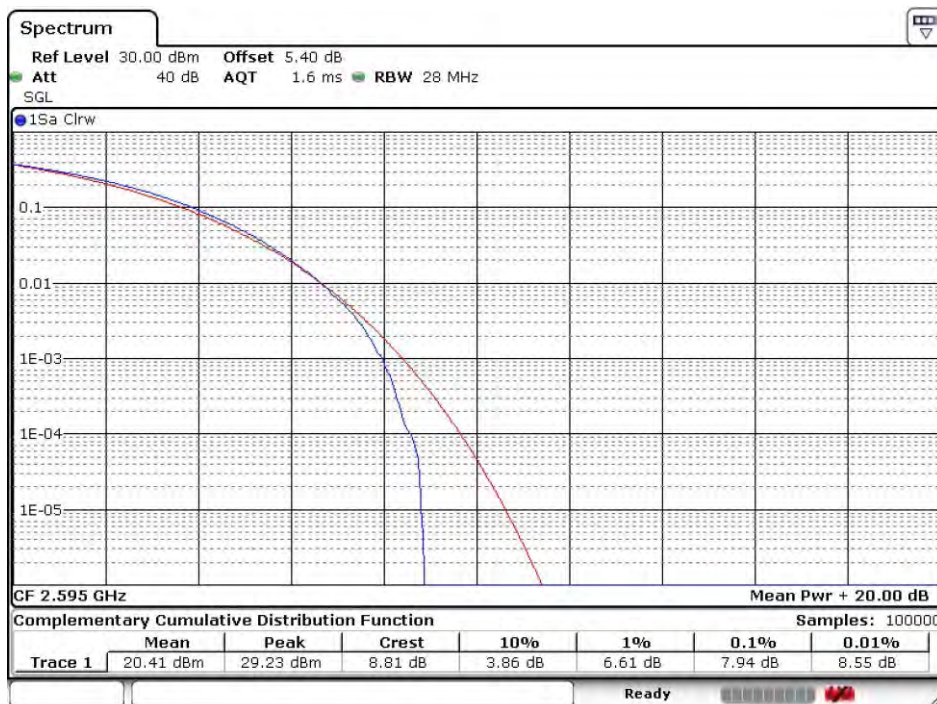
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.3.4 Test Channel = 38048+37850



Date: 3.JAN.2020 13:01:53

2.1.1.3.5 Test Channel = 38099+37901



Date: 3.JAN.2020 13:04:07



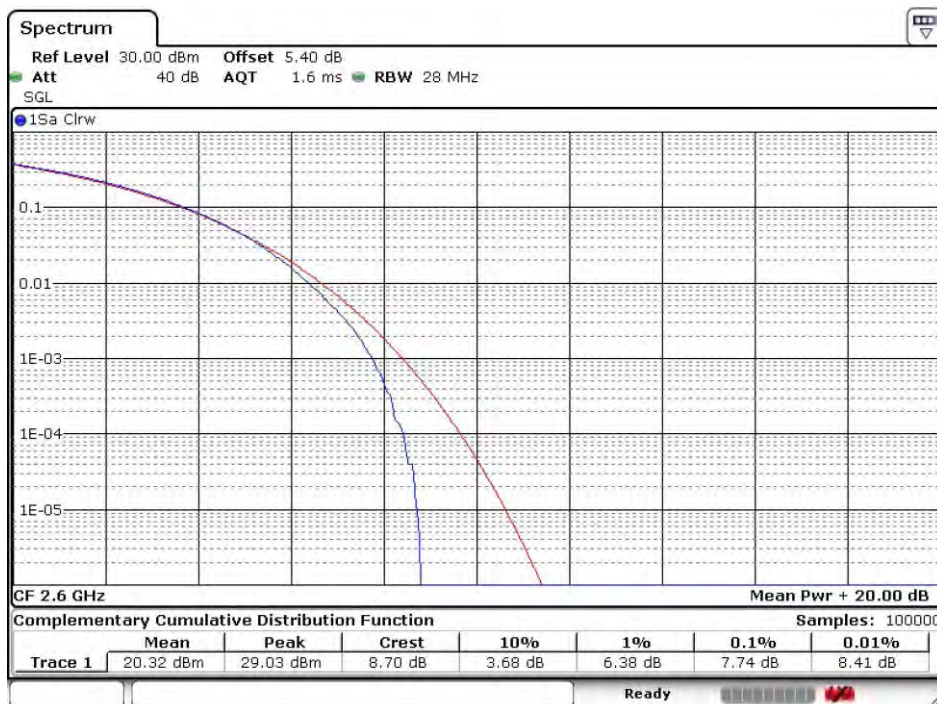
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Use Only) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.1.1.3.6 Test Channel = 38150+37952



Date: 3 JAN 2020 13:07:03



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



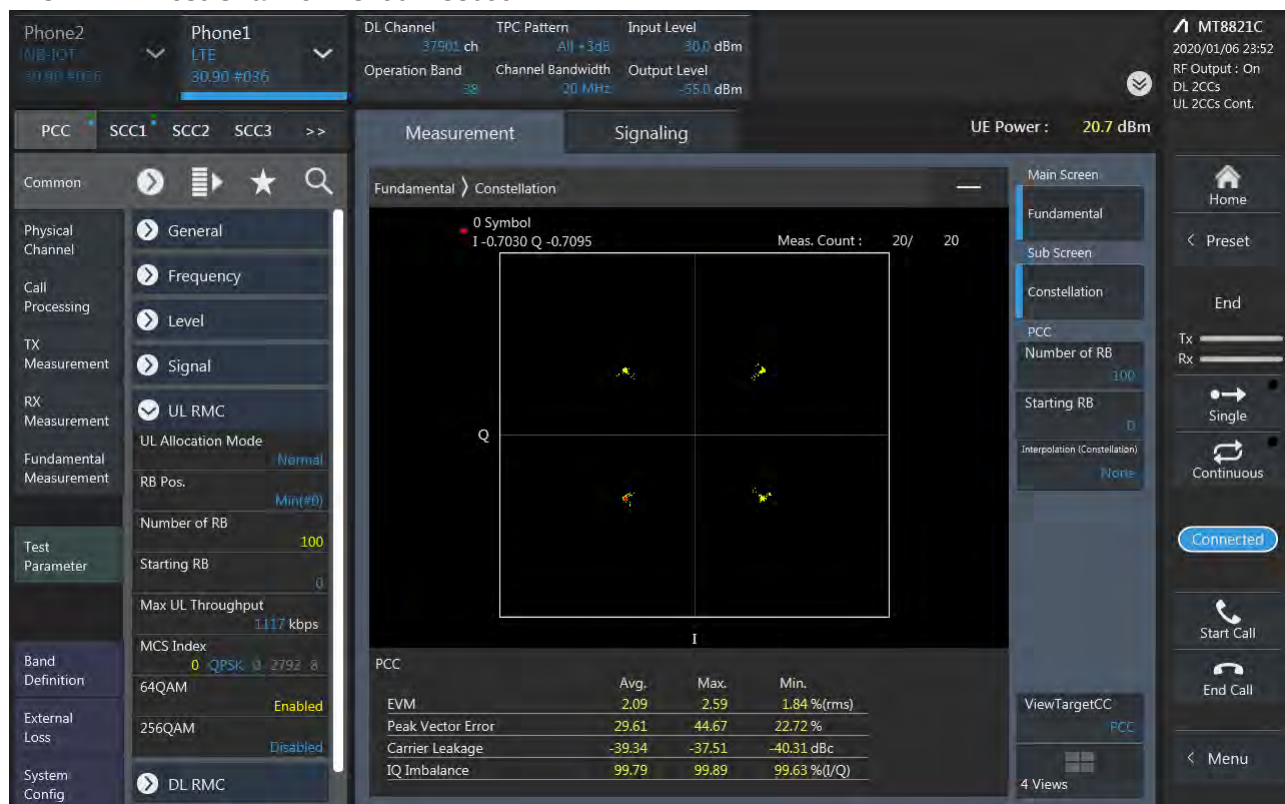
3 Modulation Characteristics

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 = 37901+38099



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

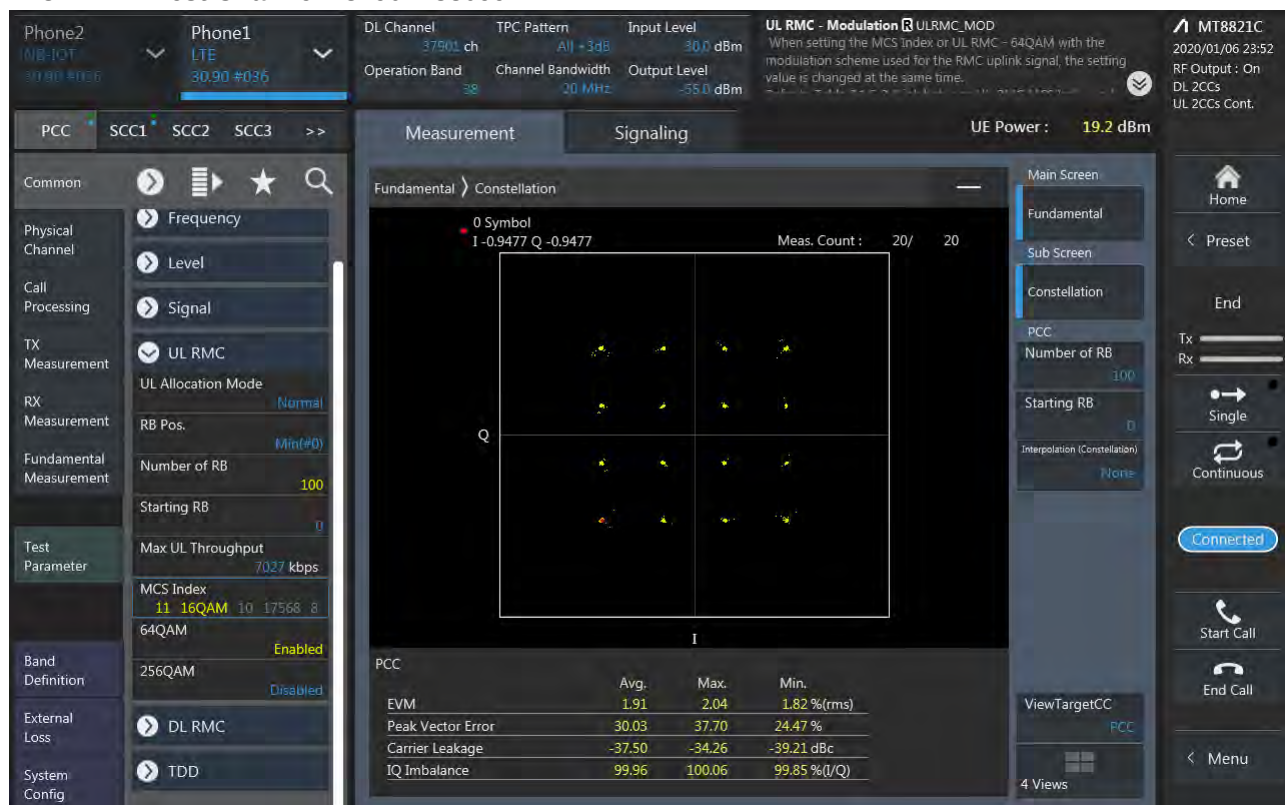
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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

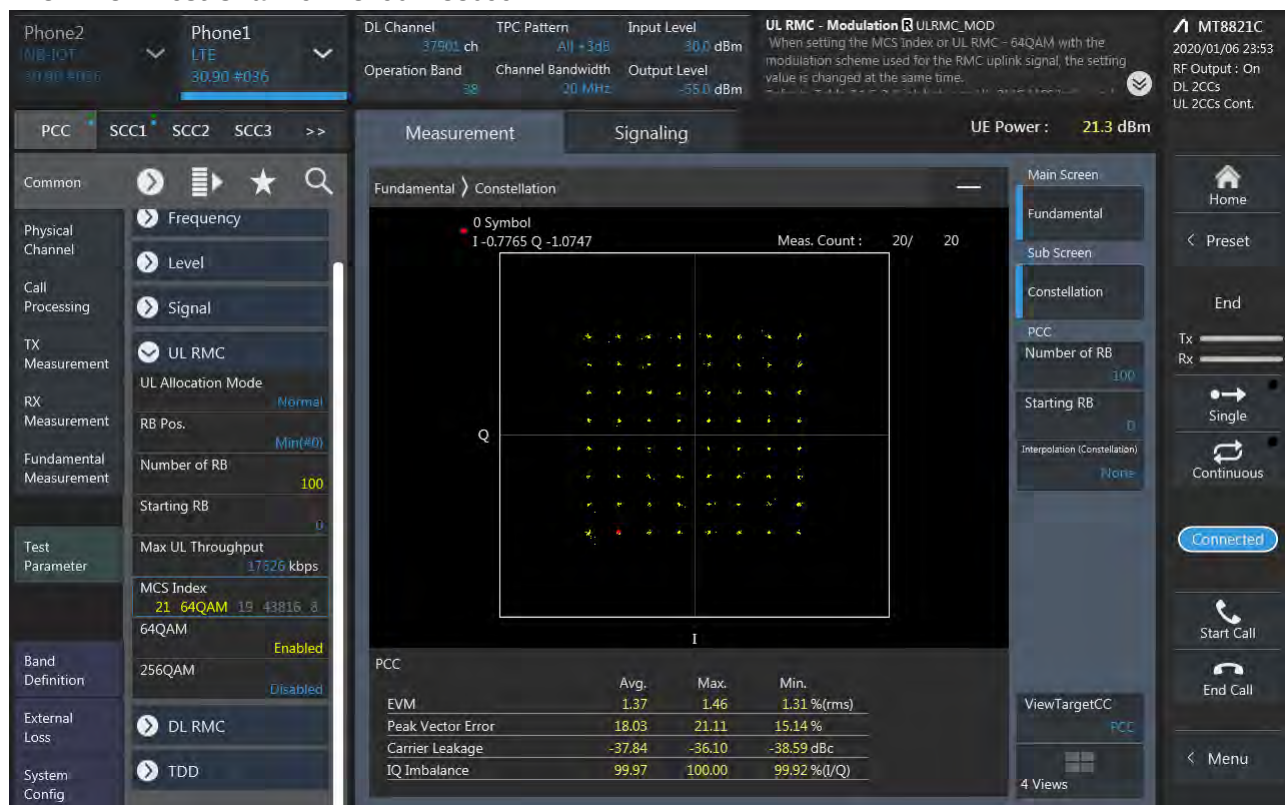
3.1.1.2.1 Test Channel =37901+38099





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

3.1.1.3.1 Test Channel = 37901+38099





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	28.22	29.19	PASS
CA_38C	QPSK	75RB+75RB	37925+38075	75RB#0	75RB#0	28.24	29.25	PASS
CA_38C	QPSK	75RB+75RB	38025+38175	75RB#0	75RB#0	28.24	29.21	PASS
CA_38C	QPSK	75RB+75RB	37975+37825	75RB#0	75RB#0	28.19	29.23	PASS
CA_38C	QPSK	75RB+75RB	38075+37925	75RB#0	75RB#0	28.19	29.18	PASS
CA_38C	QPSK	75RB+75RB	38175+38025	75RB#0	75RB#0	28.21	29.16	PASS
CA_38C	16QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.22	29.19	PASS
CA_38C	16QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.22	29.20	PASS
CA_38C	16QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.22	29.23	PASS
CA_38C	16QAM	75RB+75RB	37975+37825	75RB#0	75RB#0	28.21	29.21	PASS
CA_38C	16QAM	75RB+75RB	38075+37925	75RB#0	75RB#0	28.21	29.23	PASS
CA_38C	16QAM	75RB+75RB	38175+38025	75RB#0	75RB#0	28.21	29.24	PASS
CA_38C	64QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.21	29.21	PASS
CA_38C	64QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.22	29.23	PASS
CA_38C	64QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.21	29.21	PASS
CA_38C	64QAM	75RB+75RB	37975+37825	75RB#0	75RB#0	28.21	29.21	PASS
CA_38C	64QAM	75RB+75RB	38075+37925	75RB#0	75RB#0	28.22	29.21	PASS
CA_38C	64QAM	75RB+75RB	38175+38025	75RB#0	75RB#0	28.21	29.20	PASS
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	37.43	38.92	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	37.41	38.92	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	37.41	38.92	PASS
CA_38C	QPSK	100RB+100RB	38048+37850	100RB#0	100RB#0	37.43	38.88	PASS
CA_38C	QPSK	100RB+100RB	38099+37901	100RB#0	100RB#0	37.43	38.90	PASS
CA_38C	QPSK	100RB+100RB	38150+37952	100RB#0	100RB#0	37.43	38.90	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.43	38.92	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.43	38.90	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.43	38.92	PASS
CA_38C	16QAM	100RB+100RB	38048+37850	100RB#0	100RB#0	37.41	38.92	PASS
CA_38C	16QAM	100RB+100RB	38099+37901	100RB#0	100RB#0	37.41	38.88	PASS
CA_38C	16QAM	100RB+100RB	38150+37952	100RB#0	100RB#0	37.41	38.88	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.43	38.90	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.45	38.92	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

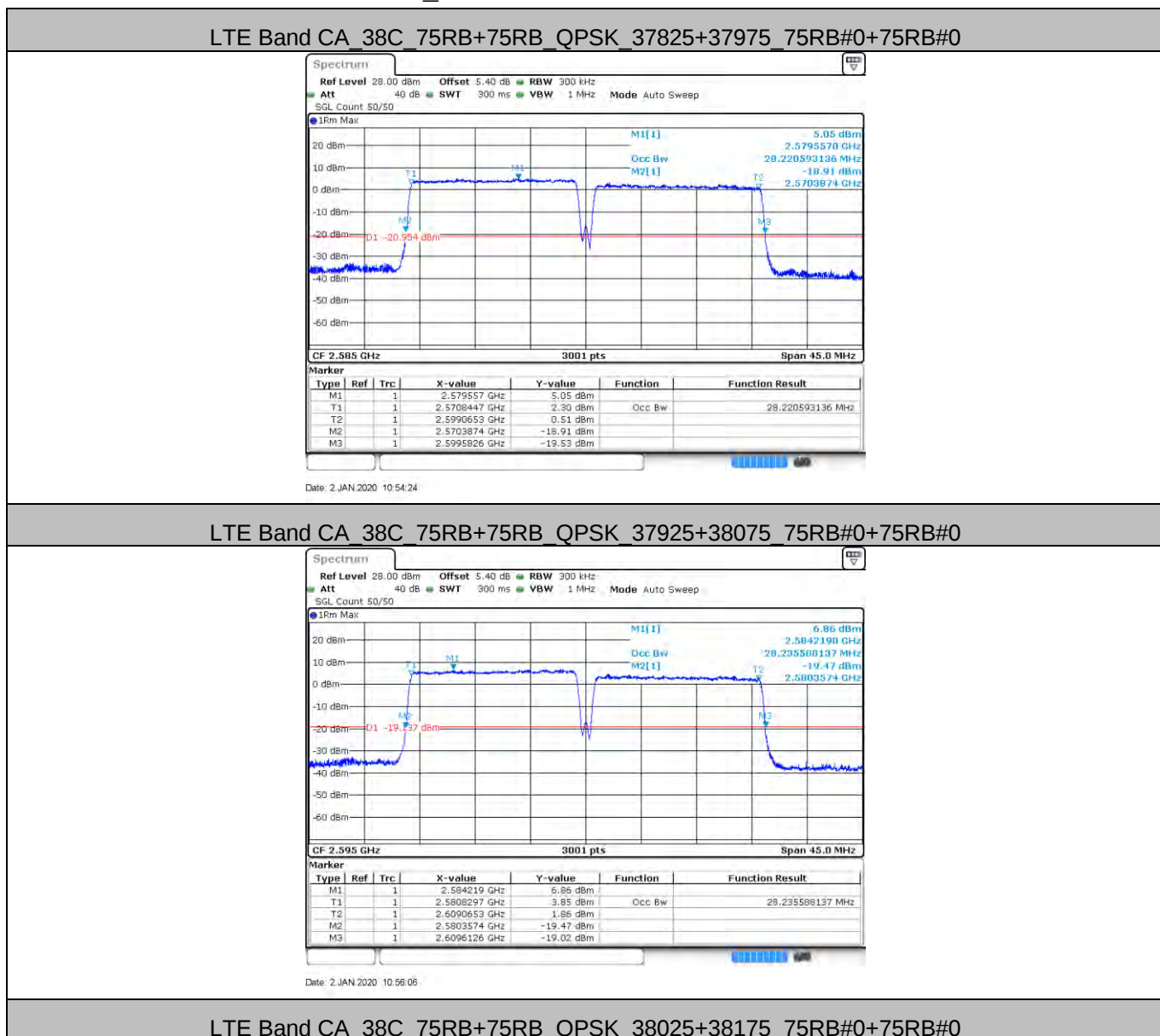
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
SGS-CSTC Standards Technical Services Co., Ltd. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
Shenzhen Branch (China) Testing Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

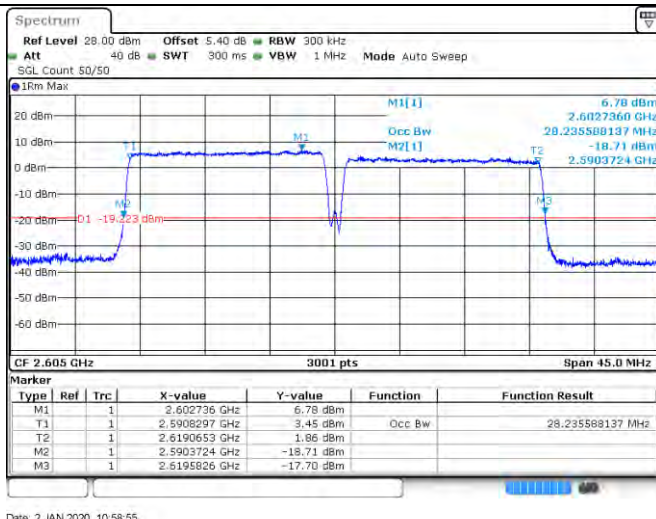


Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.43	38.94	PASS
CA_38C	64QAM	100RB+100RB	38048+37850	100RB#0	100RB#0	37.43	38.90	PASS
CA_38C	64QAM	100RB+100RB	38099+37901	100RB#0	100RB#0	37.43	38.89	PASS
CA_38C	64QAM	100RB+100RB	38150+37952	100RB#0	100RB#0	37.43	38.88	PASS

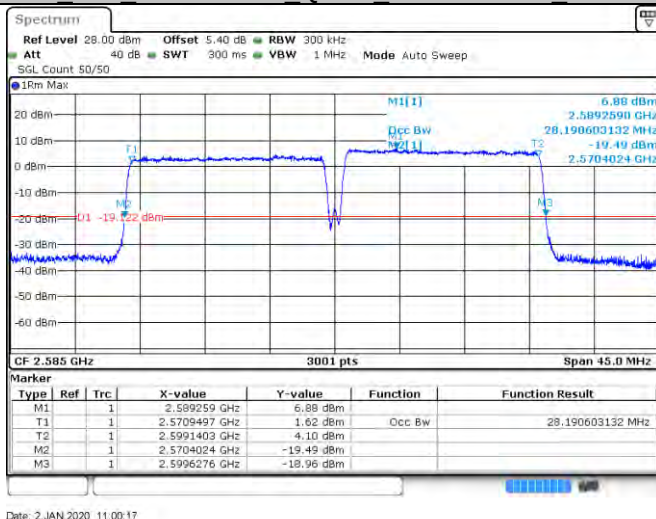
4.1 For LTE

4.1.1 Test Band = LTE Band CA_38C



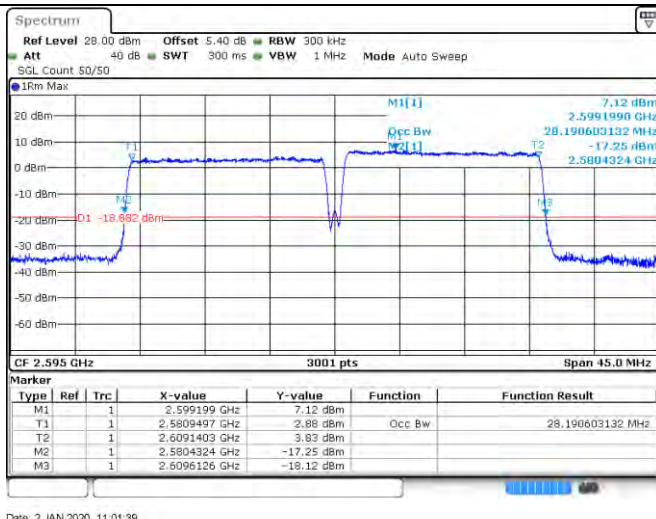


LTE Band CA 38C 75RB+75RB QPSK 37975+37825 75RB#0+75RB#0



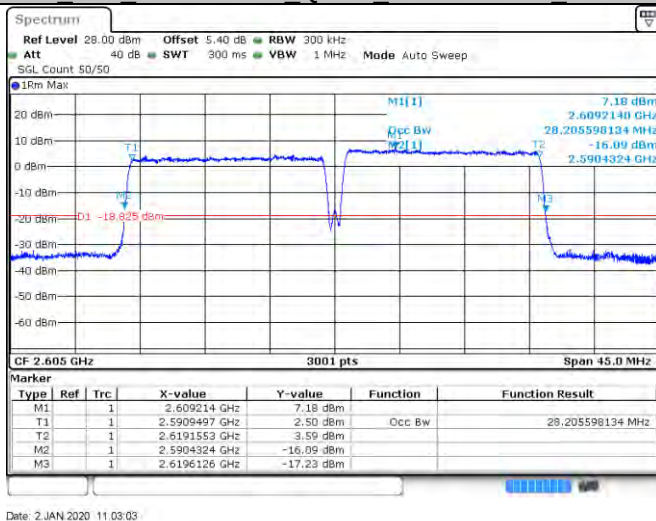
LTE Band CA 38C 75RB+75RB QPSK 38075+37925 75RB#0+75RB#0





Date: 2 JAN 2020 11:01:39

LTE Band CA 38C 75RB+75RB QPSK 38175+38025 75RB#0+75RB#0



Date: 2 JAN 2020 11:03:03

LTE Band CA 38C 75RB+75RB 16QAM 37825+37975 75RB#0+75RB#0

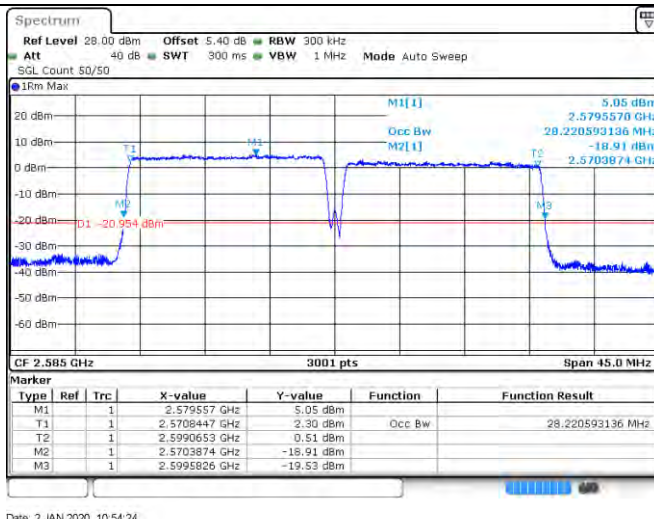


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

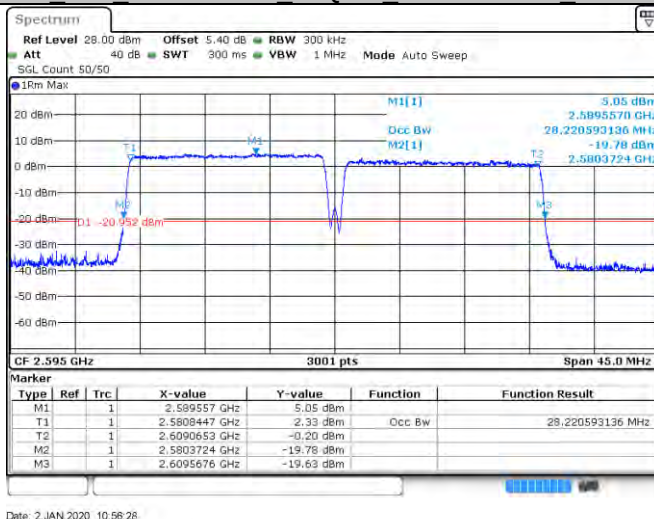
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

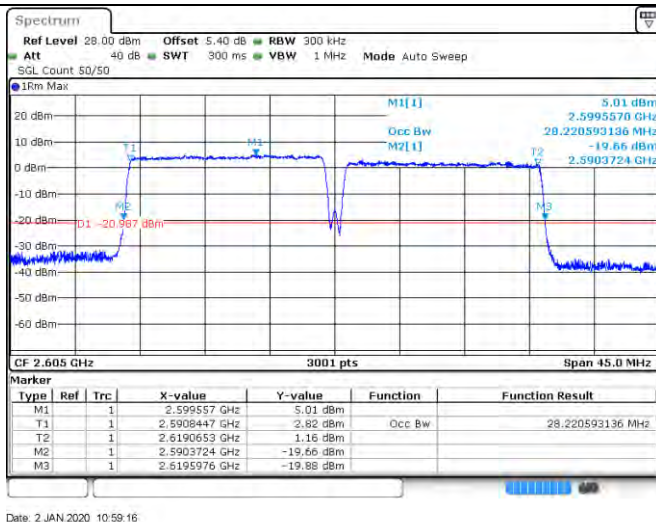


LTE Band CA_38C_75RB+75RB_16QAM_37925+38075_75RB#0+75RB#0

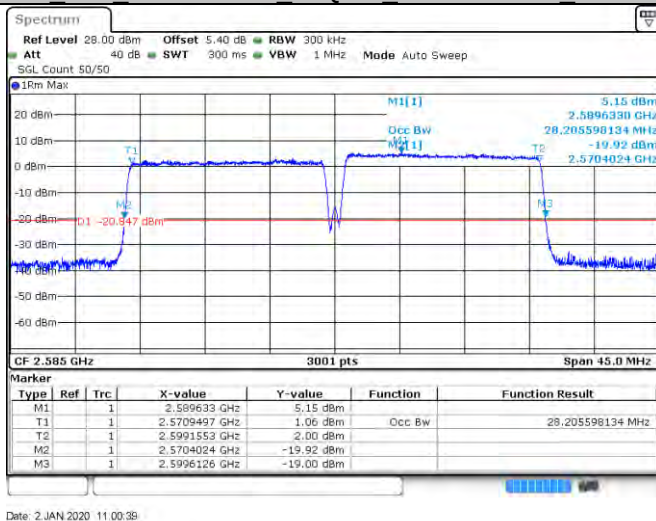


LTE Band CA_38C_75RB+75RB_16QAM_38025+38175_75RB#0+75RB#0



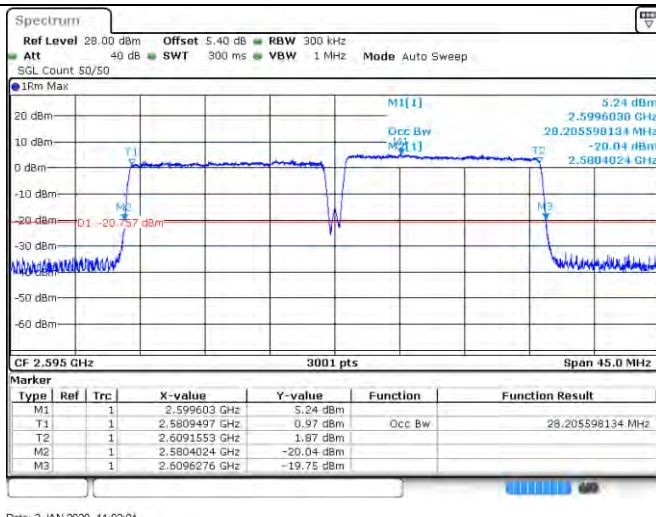


LTE Band CA_38C_75RB+75RB_16QAM_37975+37825_75RB#0+75RB#0

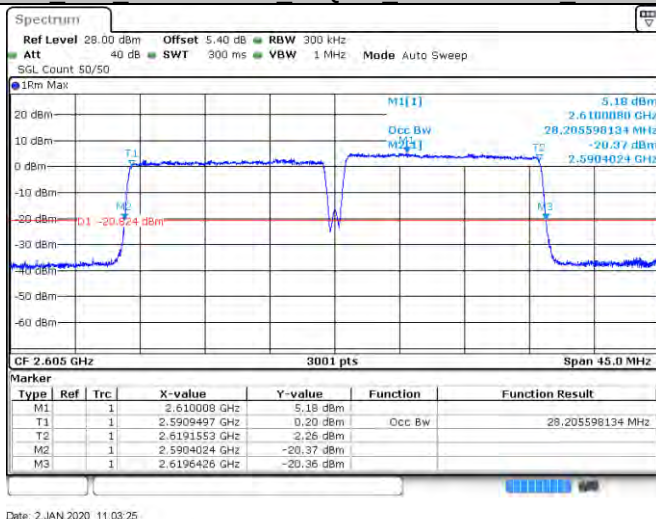


LTE Band CA_38C_75RB+75RB_16QAM_38075+37925_75RB#0+75RB#0



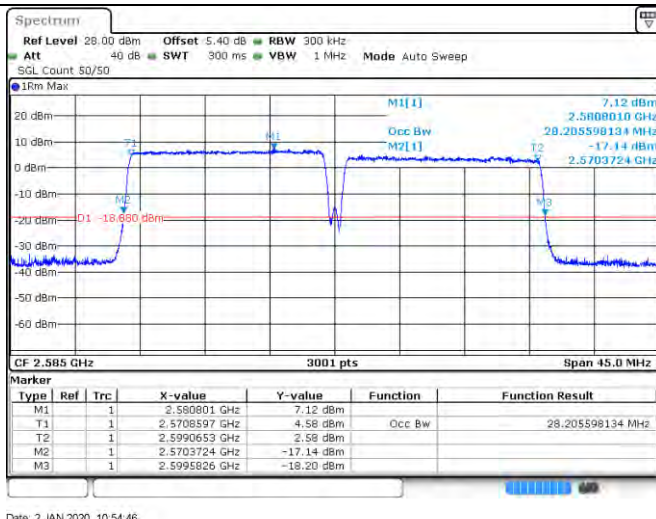


LTE Band CA_38C_75RB+75RB_16QAM_38175+38025_75RB#0+75RB#0

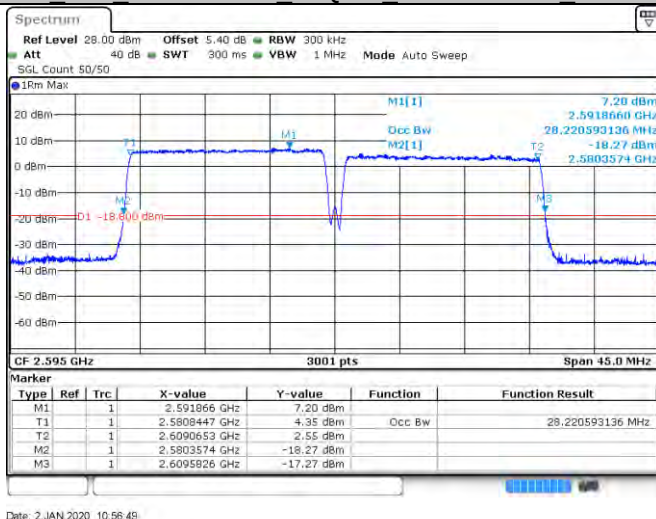


LTE Band CA_38C_75RB+75RB_64QAM_37825+37975_75RB#0+75RB#0



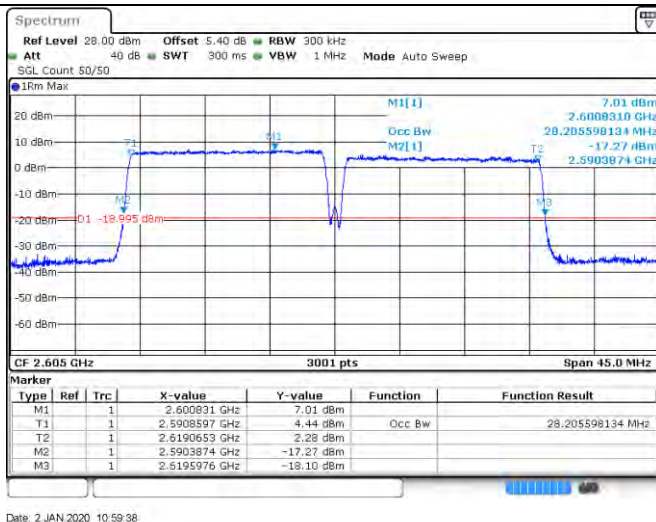


LTE Band CA_38C_75RB+75RB_64QAM_37925+38075_75RB#0+75RB#0

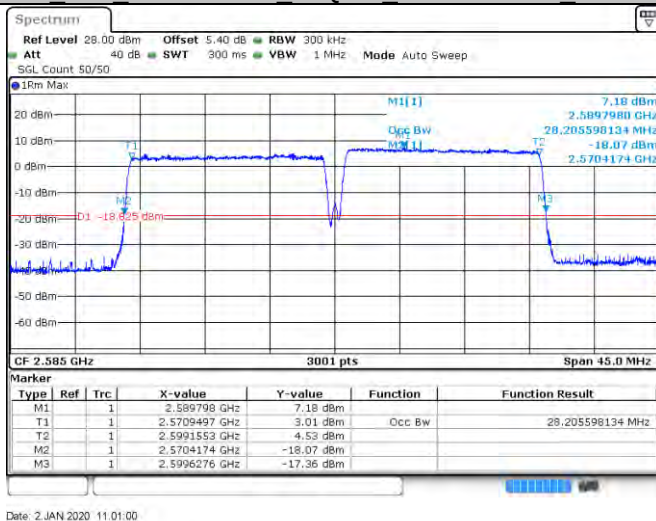


LTE Band CA_38C_75RB+75RB_64QAM_38025+38175_75RB#0+75RB#0



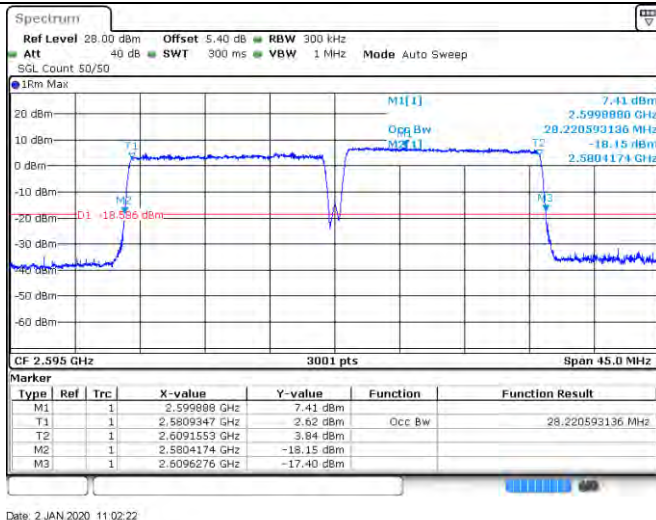


LTE Band CA 38C 75RB+75RB 64QAM 37975+37825 75RB#0+75RB#0



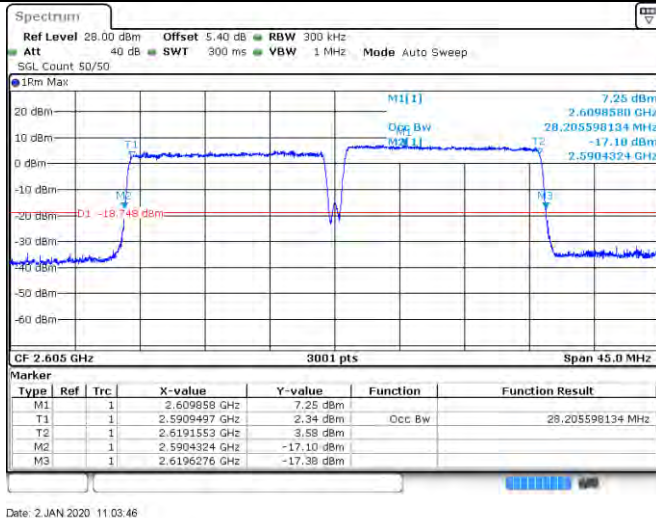
LTE Band CA 38C 75RB+75RB 64QAM 38075+37925 75RB#0+75RB#0





Date: 2 JAN 2020 11:02:22

LTE Band CA 38C 75RB+75RB 64QAM 38175+38025 75RB#0+75RB#0



Date: 2 JAN 2020 11:03:46

LTE Band CA 38C 100RB+100RB QPSK 37850+38048 100RB#0+100RB#0

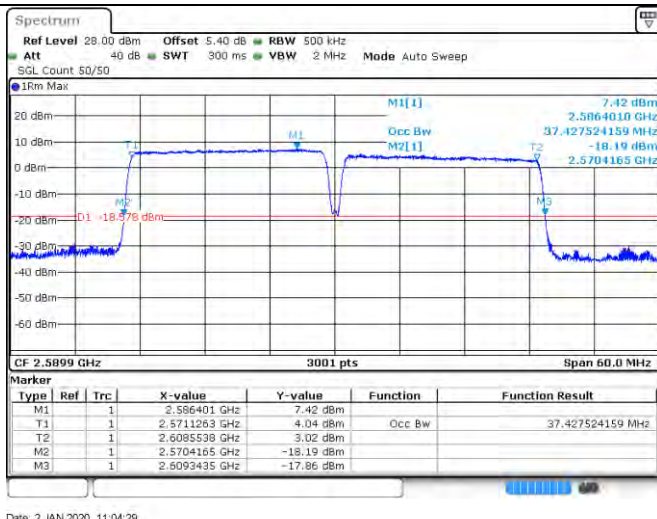


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public Testing Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

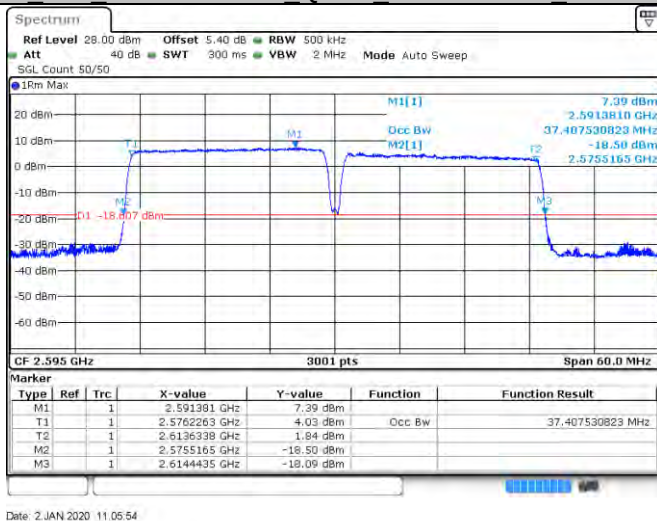
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 11:04:29

LTE Band CA 38C 100RB+100RB QPSK 37901+38099 100RB#0+100RB#0



Date: 2 JAN 2020 11:05:54

LTE Band CA 38C 100RB+100RB QPSK 37952+38150 100RB#0+100RB#0

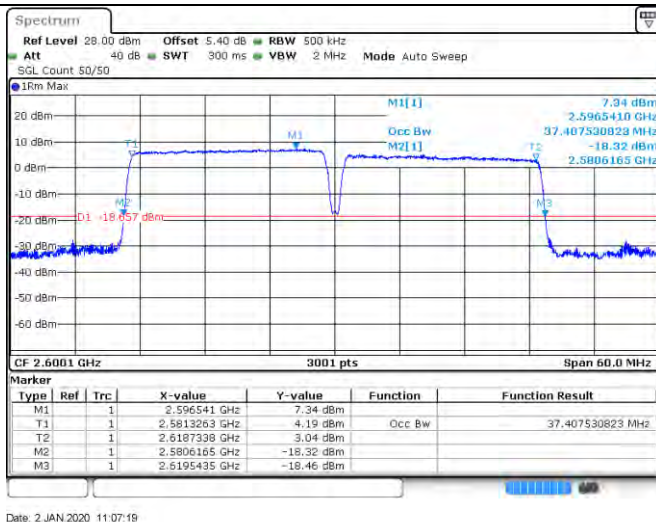


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public Testing) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

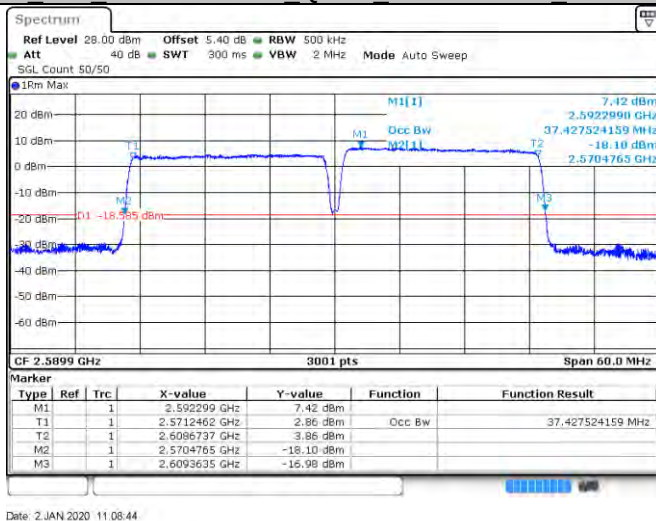
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 11:07:19

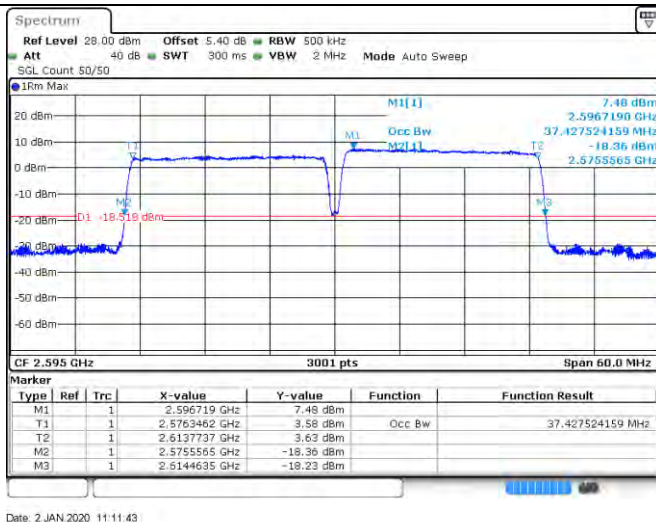
LTE Band CA 38C 100RB+100RB QPSK 38048+37850 100RB#0+100RB#0



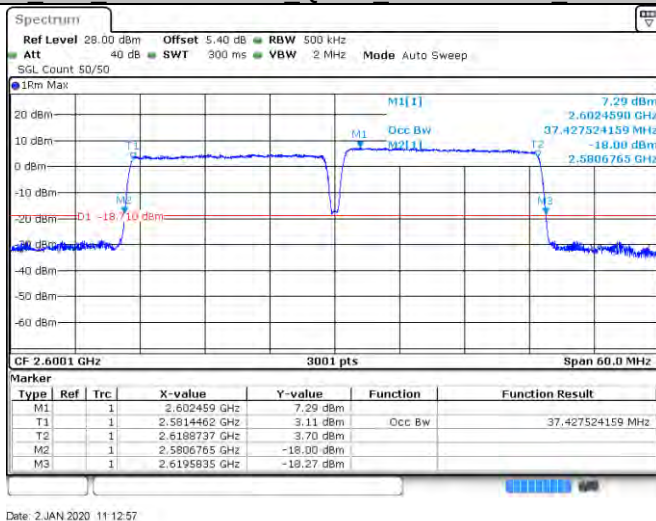
Date: 2 JAN 2020 11:08:44

LTE Band CA 38C 100RB+100RB QPSK 38099+37901 100RB#0+100RB#0



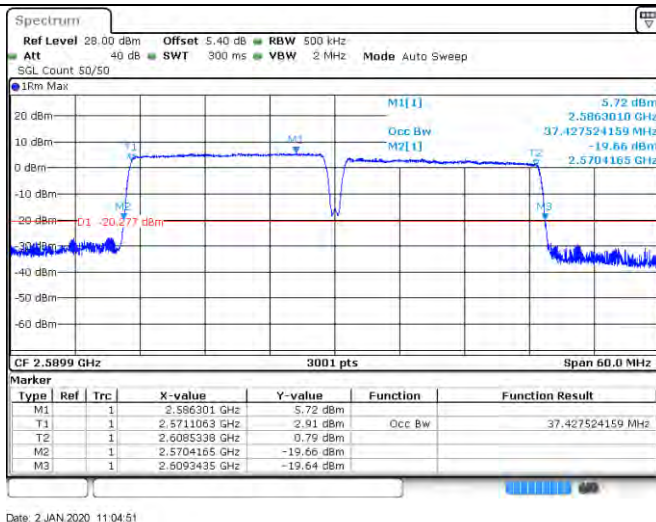


LTE Band CA 38C 100RB+100RB QPSK 38150+37952 100RB#0+100RB#0

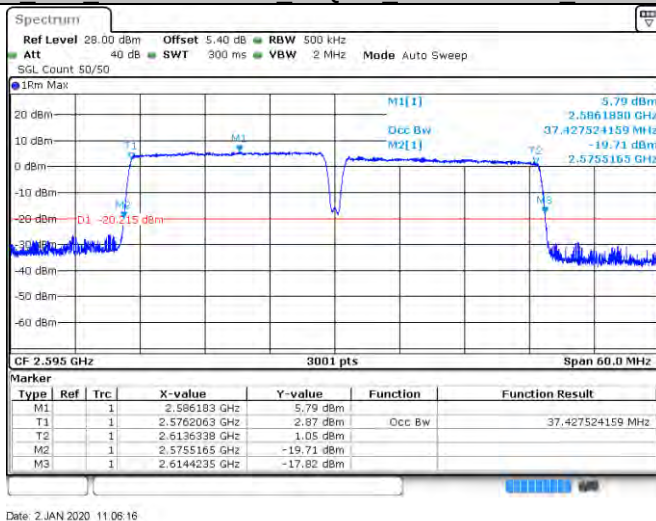


LTE Band CA 38C 100RB+100RB 16QAM 37850+38048 100RB#0+100RB#0



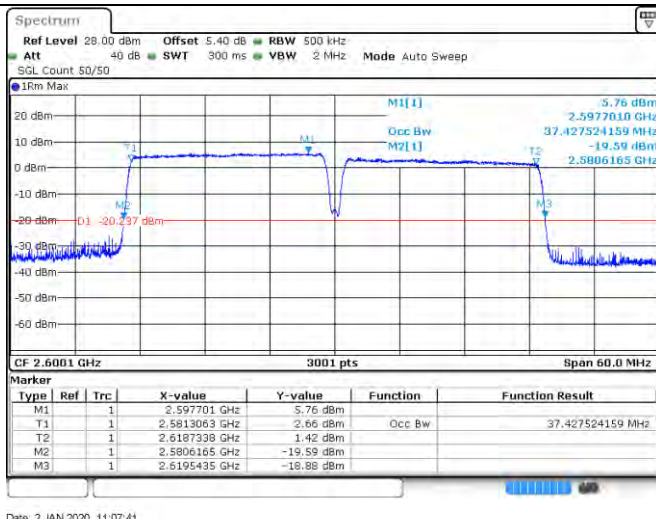


LTE Band CA_38C_100RB+100RB_16QAM_37901+38099_100RB#0+100RB#0

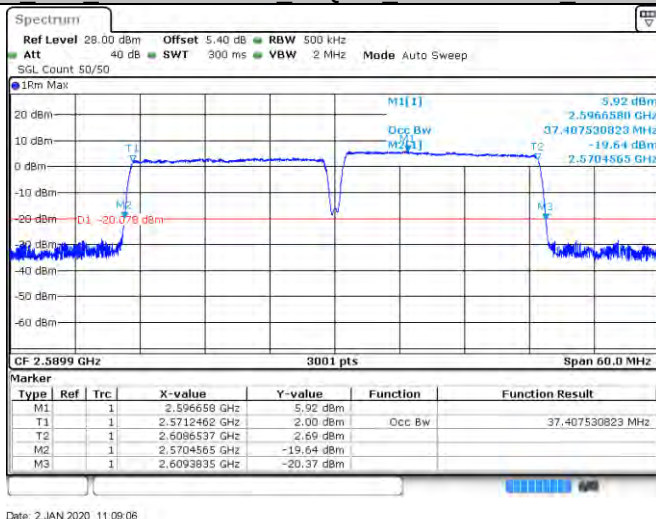


LTE Band CA_38C_100RB+100RB_16QAM_37952+38150_100RB#0+100RB#0



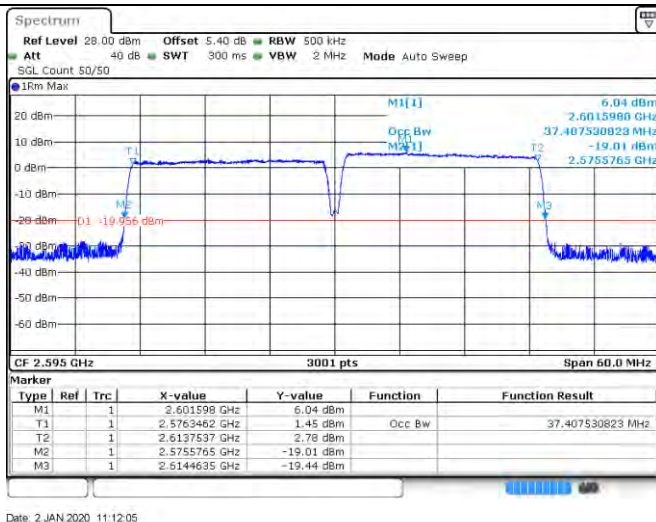


LTE Band CA 38C 100RB+100RB 16QAM 38048+37850 100RB#0+100RB#0

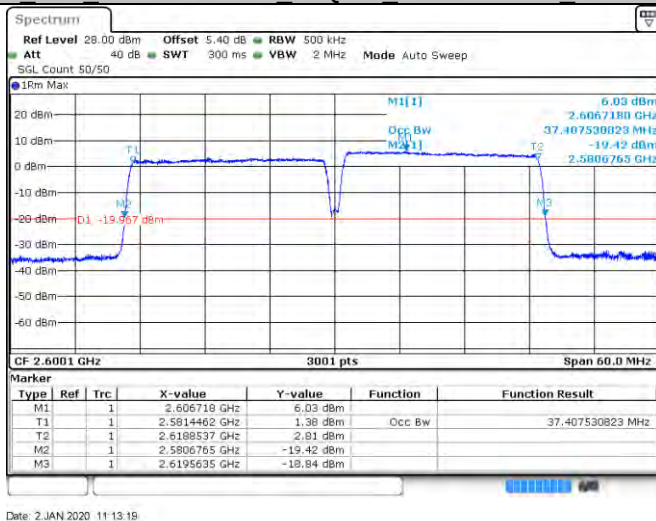


LTE Band CA 38C 100RB+100RB 16QAM 38099+37901 100RB#0+100RB#0



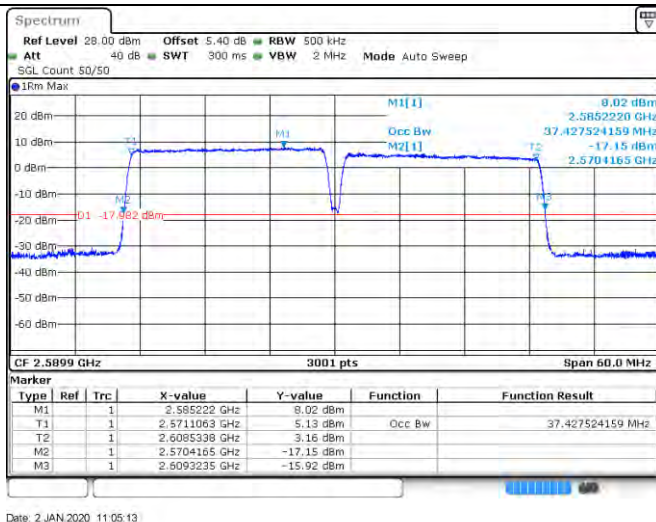


LTE Band CA_38C_100RB+100RB_16QAM_38150+37952_100RB#0+100RB#0

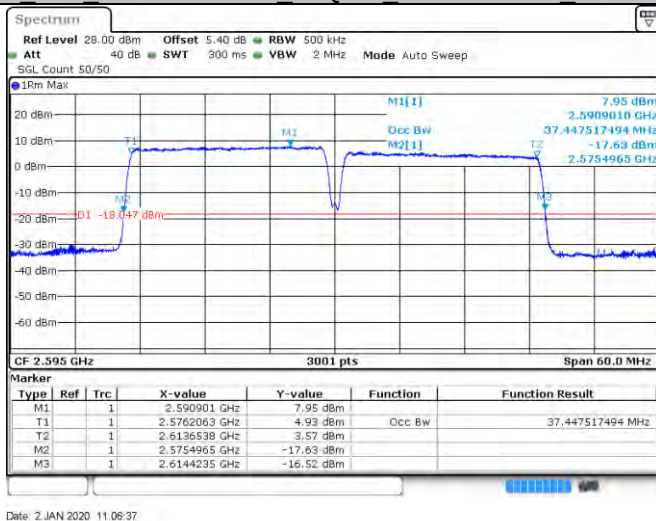


LTE Band CA_38C_100RB+100RB_64QAM_37850+38048_100RB#0+100RB#0



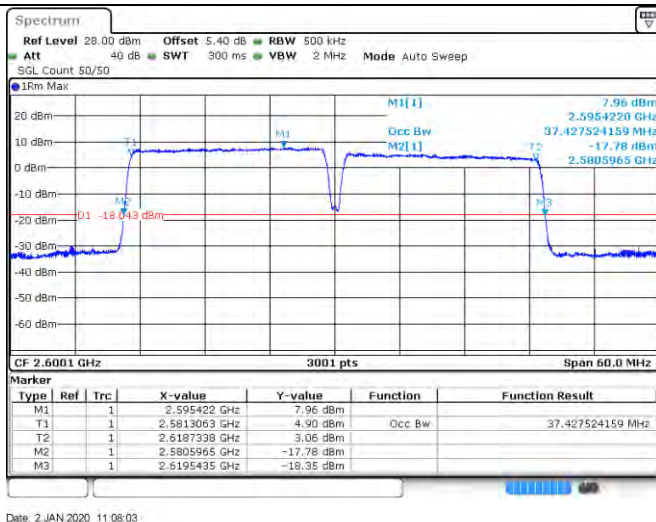


LTE Band CA 38C 100RB+100RB 64QAM 37901+38099 100RB#0+100RB#0



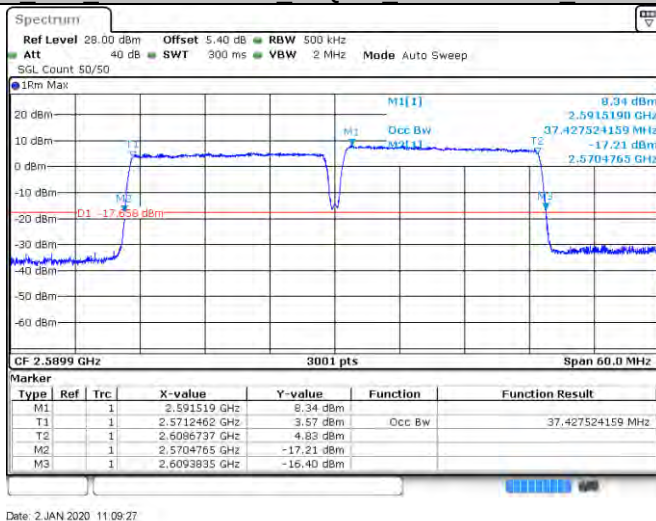
LTE Band CA 38C 100RB+100RB 64QAM 37952+38150 100RB#0+100RB#0





Date: 2 JAN 2020 11:08:03

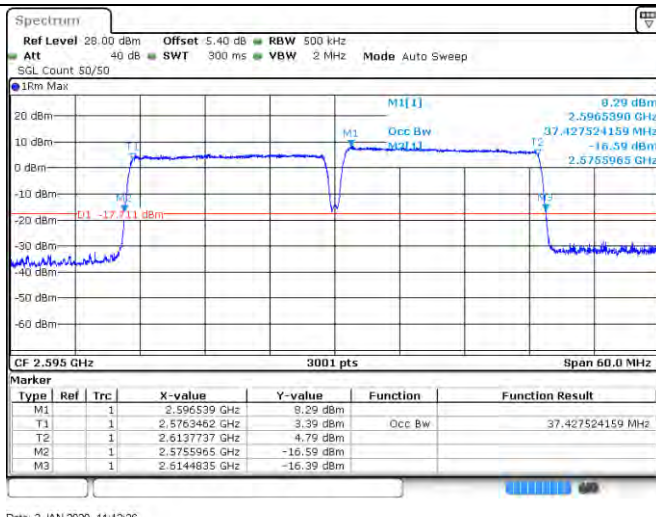
LTE Band CA 38C 100RB+100RB 64QAM 38048+37850 100RB#0+100RB#0



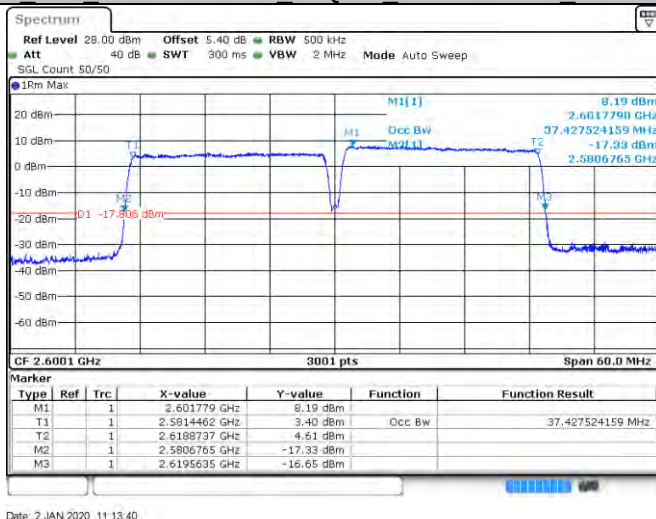
Date: 2 JAN 2020 11:09:27

LTE Band CA 38C 100RB+100RB 64QAM 38099+37901 100RB#0+100RB#0





LTE Band CA 38C 100RB+100RB 64QAM 38150+37952 100RB#0+100RB#0



5 Band Edges Compliance

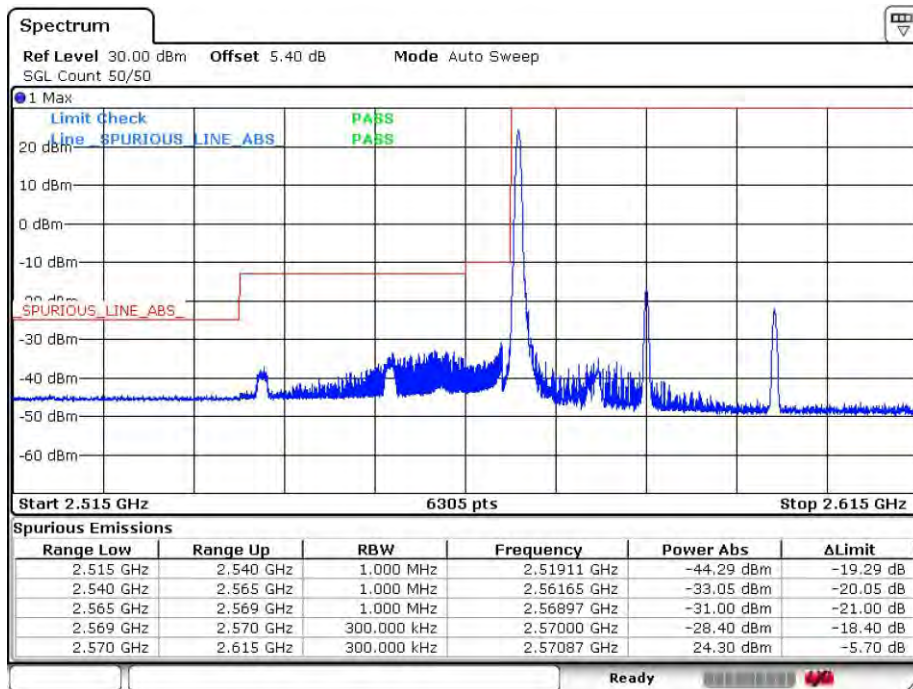
5.1 For LTE

5.1.1 Test Band = LTE Band CA_38C

5.1.1.1 Test Mode = LTE /QPSK 75RB+75RB

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB#0+0RB#0



Date: 3 JAN 2020 07:48:23

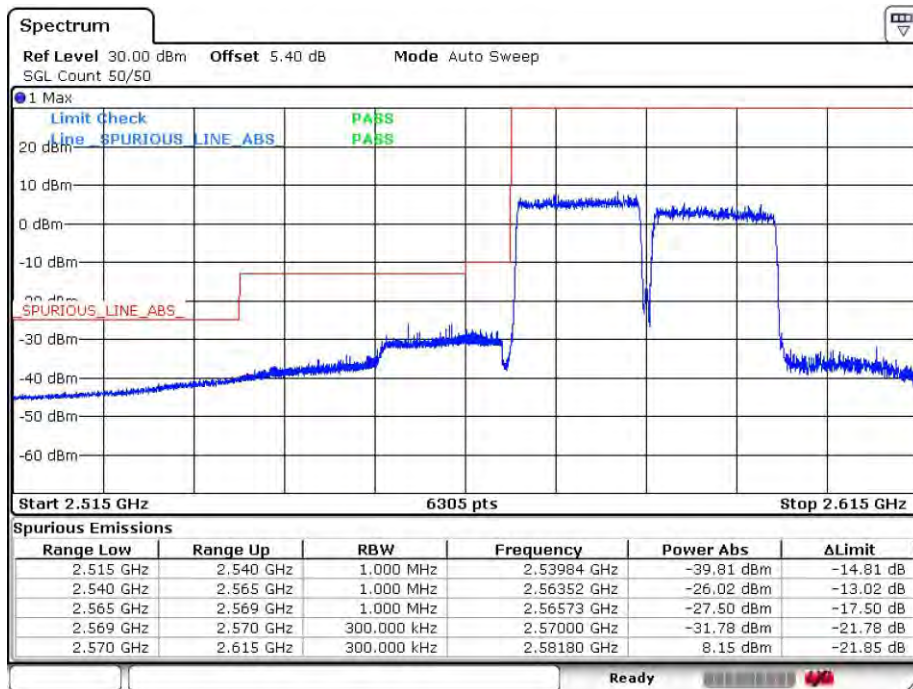


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Technical Services Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

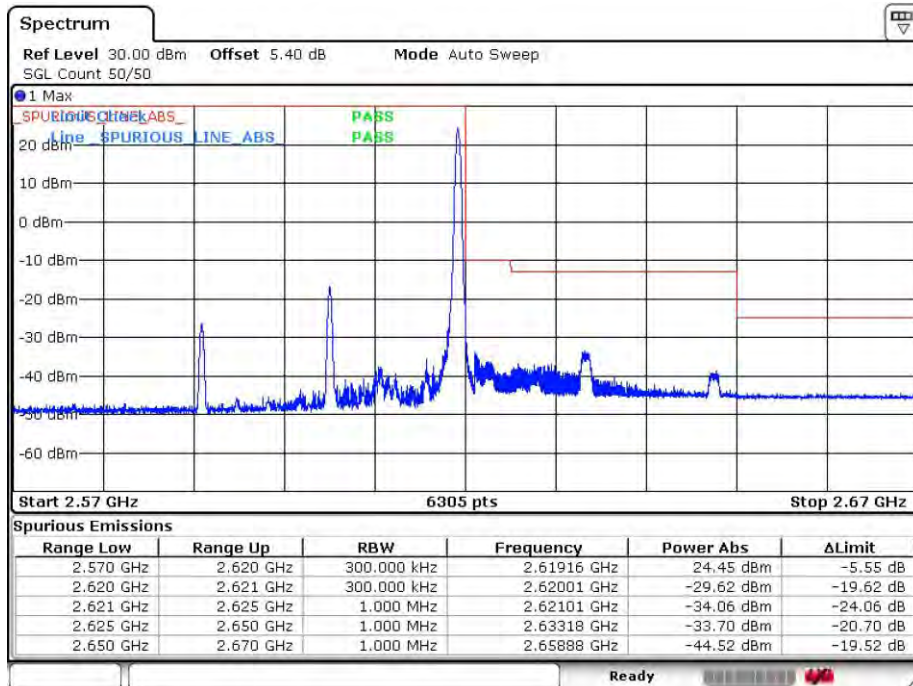
5.1.1.1.1.2 Test RB=75RB#0+75RB#0



Date: 3 JAN 2020 07:41:37

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB#74+0RB#0



Date: 3 JAN 2020 08:09:57

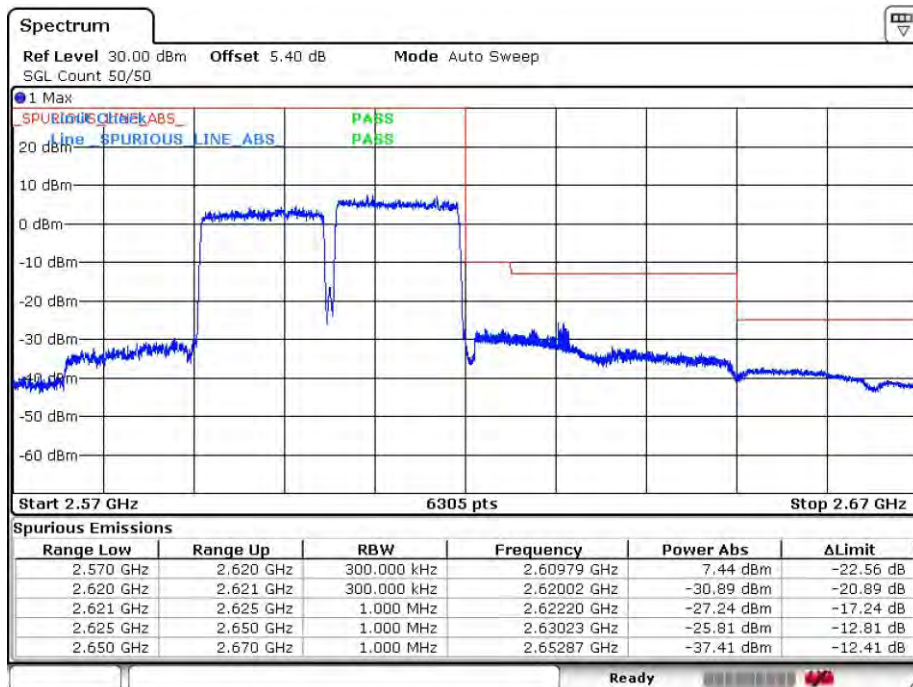


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5.1.1.1.2.2 Test RB=75RB#0+75RB#0

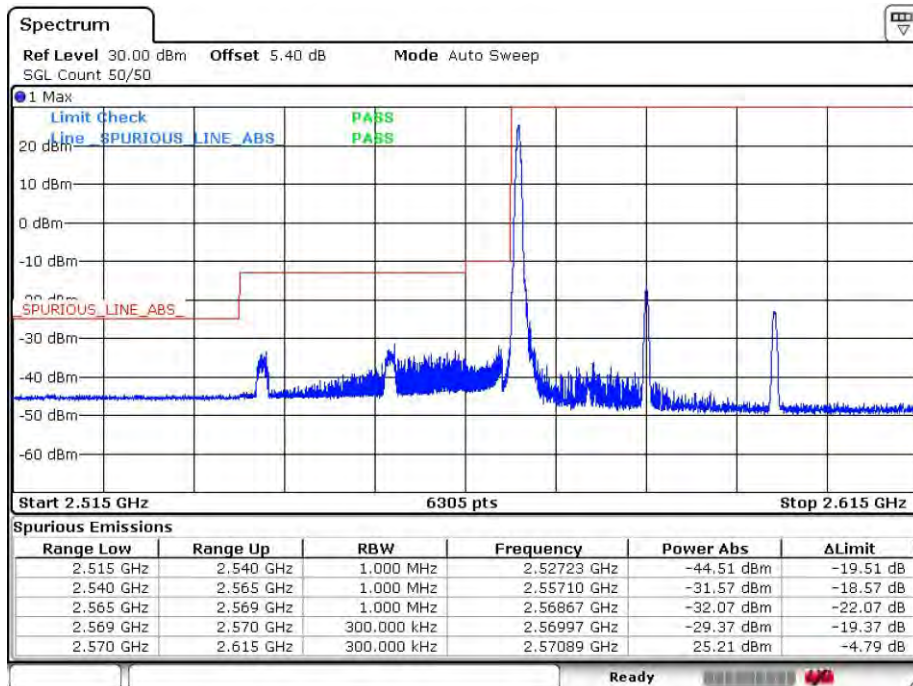


Date: 3.JAN.2020 07:50:44

5.1.1.2 Test Mode = LTE /16QAM 75RB+75RB

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB#0+0RB#0



Date: 3.JAN.2020 07:47:14

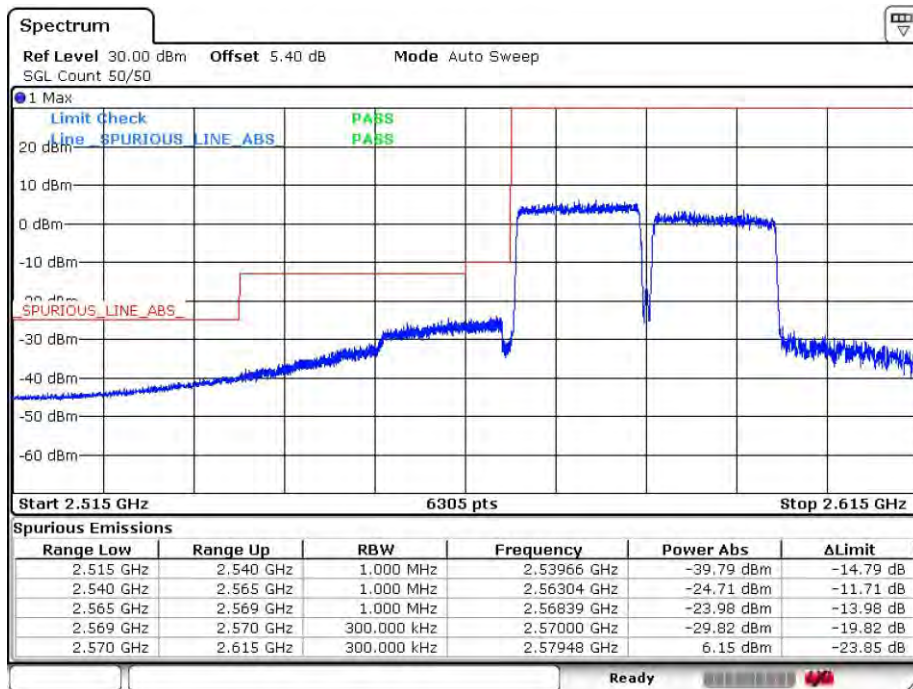


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

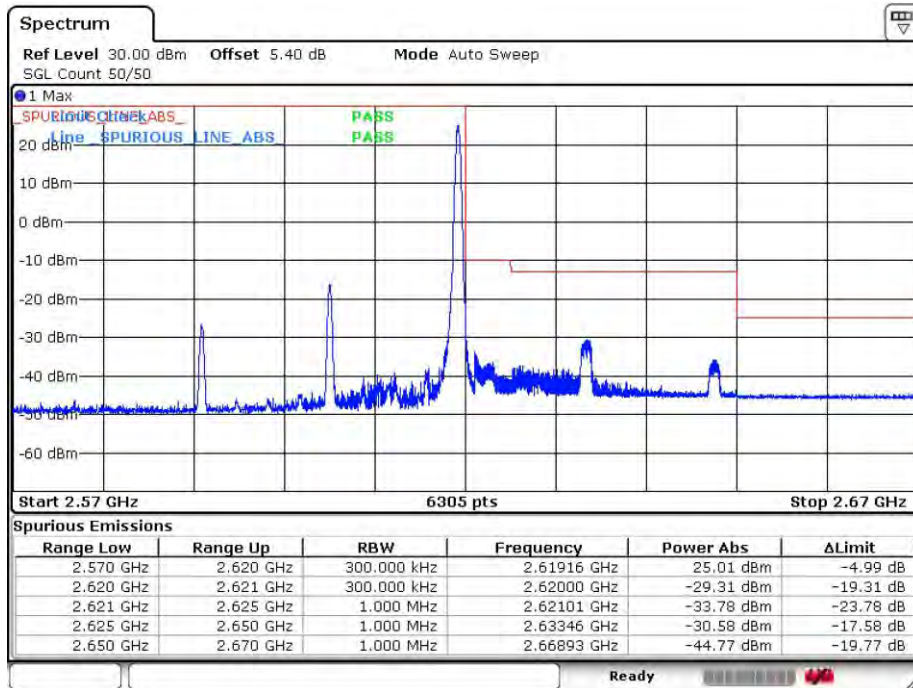
5.1.1.2.1.2 Test RB=75RB#0+75RB#0



Date: 3 JAN 2020 07:43:23

5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB#74+0RB#0



Date: 3 JAN 2020 08:06:54



5.1.1.2.2.2 Test RB=75RB#0+75RB#0

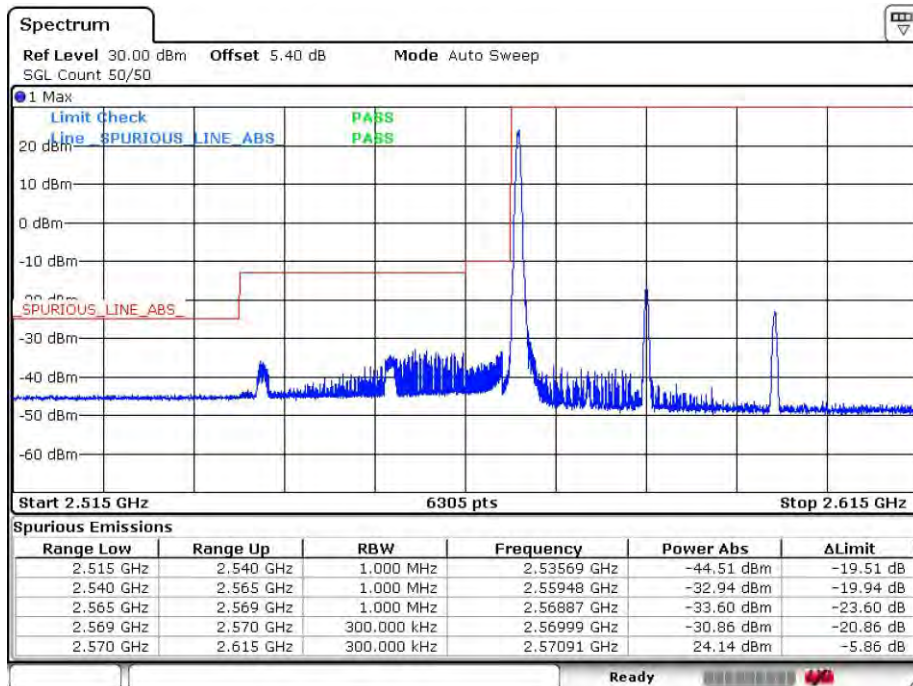


Date: 3 JAN 2020 07:53:47

5.1.1.3 Test Mode = LTE /64QAM 75RB+75RB

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB#0+0RB#0



Date: 3 JAN 2020 07:45:59

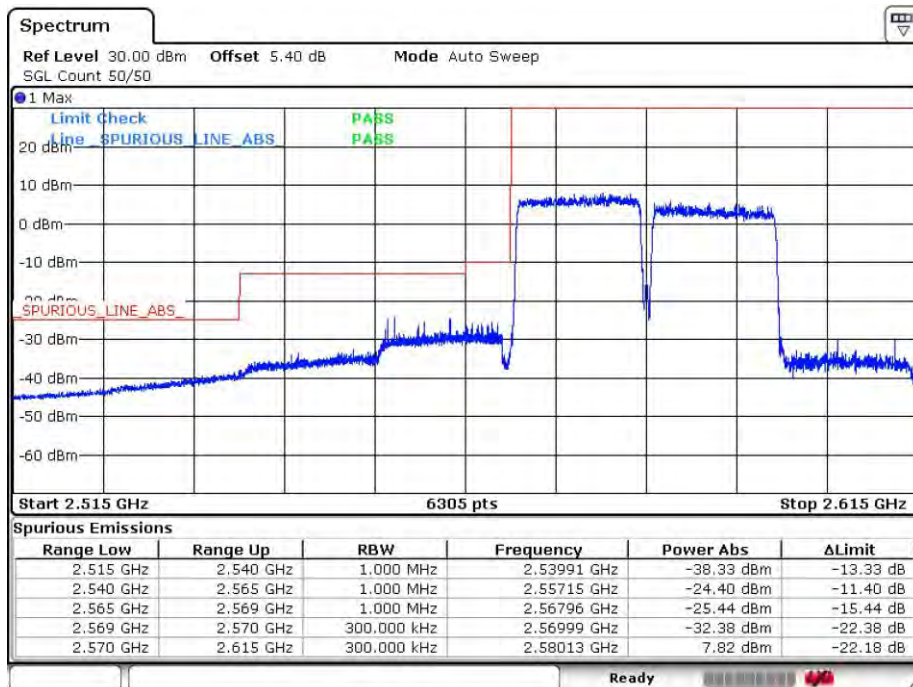


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

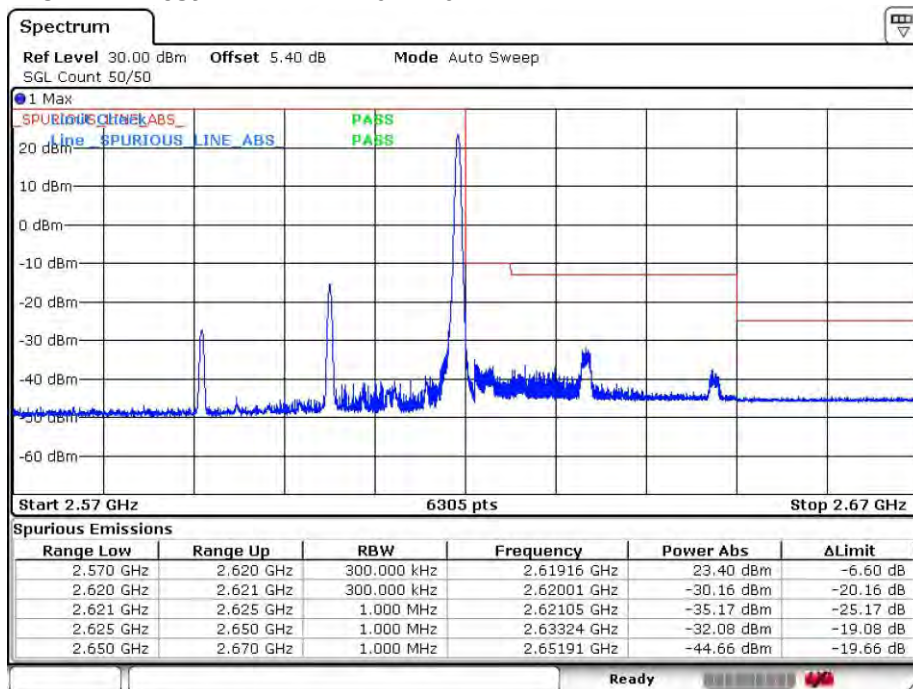
5.1.1.3.1.2 Test RB=75RB#0+75RB#0



Date: 3 JAN 2020 07:44:45

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB#74+0RB#0



Date: 3 JAN 2020 08:05:21



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5.1.1.3.2.2 Test RB=75RB#0+75RB#0

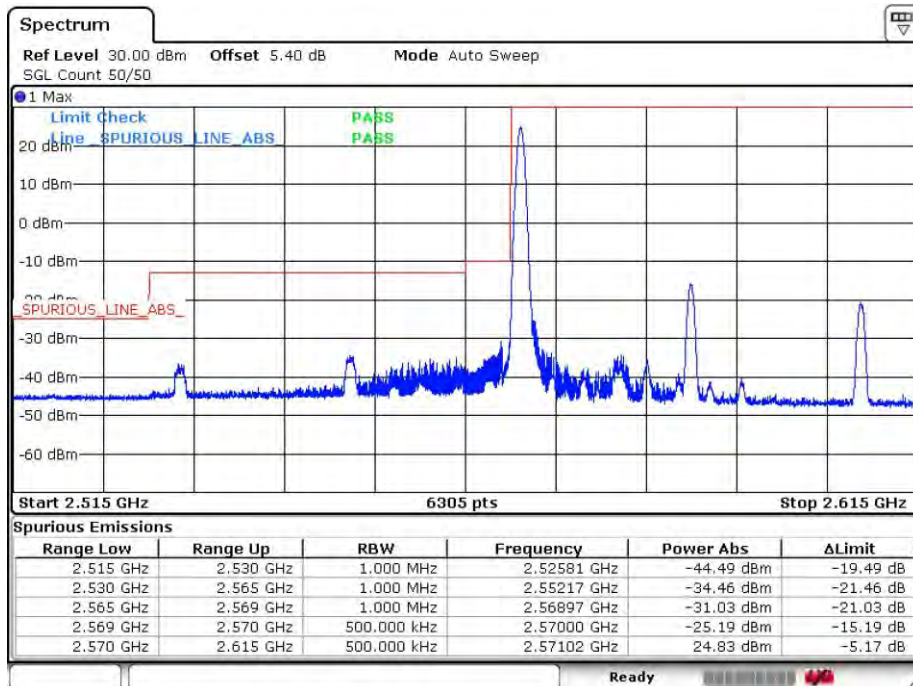


Date: 3 JAN 2020 07:54:58

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

5.1.1.4.1 Test Channel = LCH

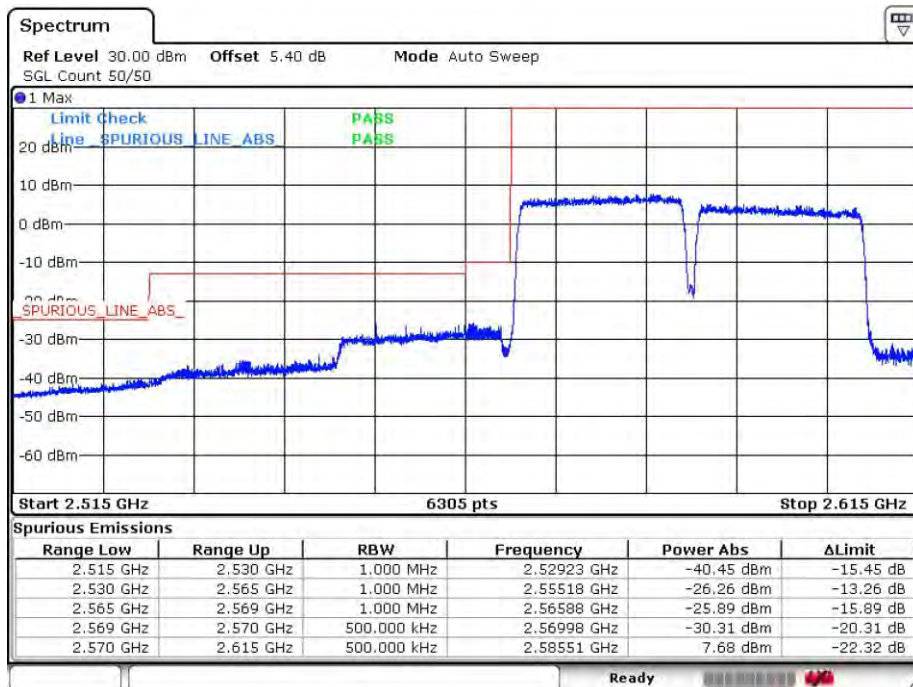
5.1.1.4.1.1 Test RB=1RB#0+0RB#0



Date: 3 JAN 2020 08:23:34



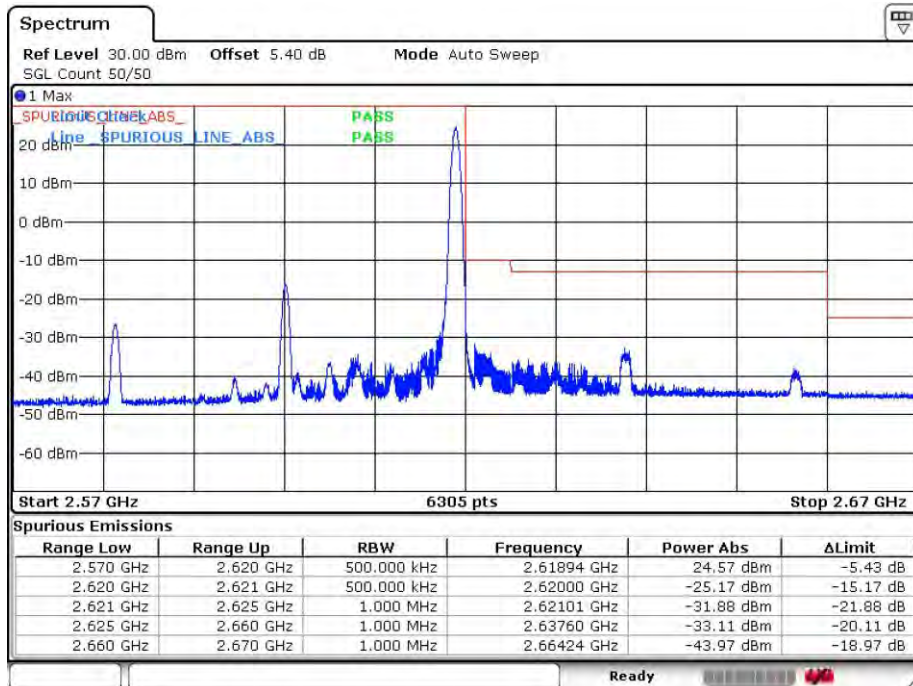
5.1.1.4.1.2 Test RB=100RB#0+100RB#0



Date: 3 JAN 2020 08:15:03

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB#99+0RB#0



Date: 3 JAN 2020 08:37:56

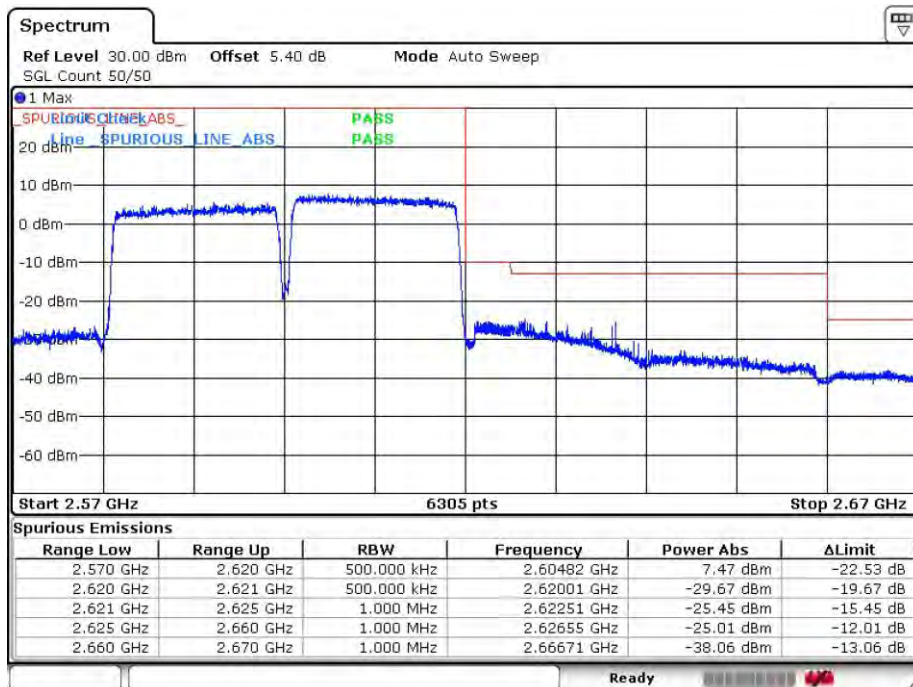


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5.1.1.4.2.2 Test RB=100RB#0+100RB#0

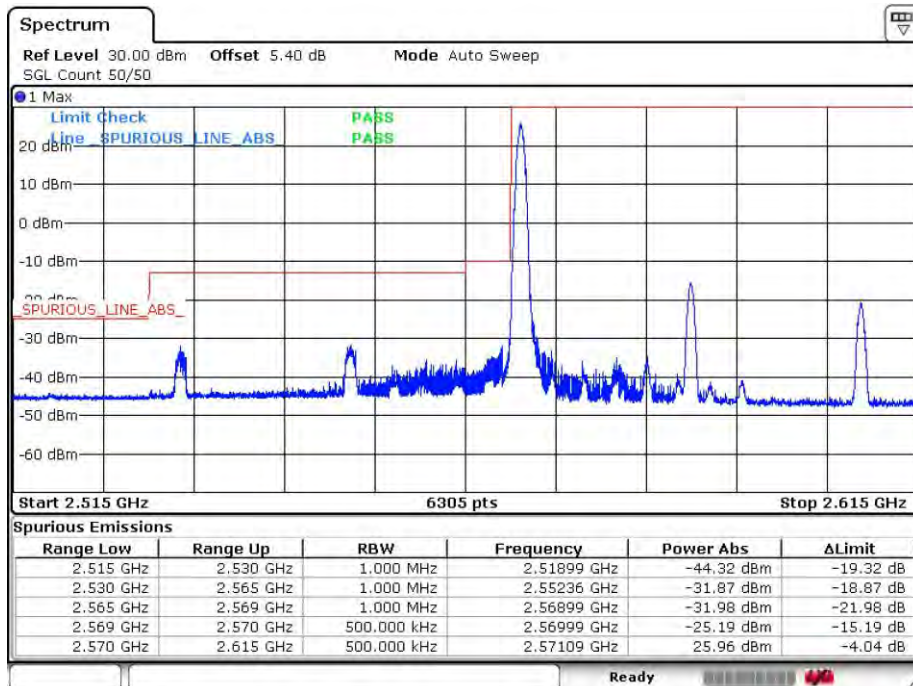


Date: 3 JAN 2020 08:26:55

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

5.1.1.5.1 Test Channel = LCH

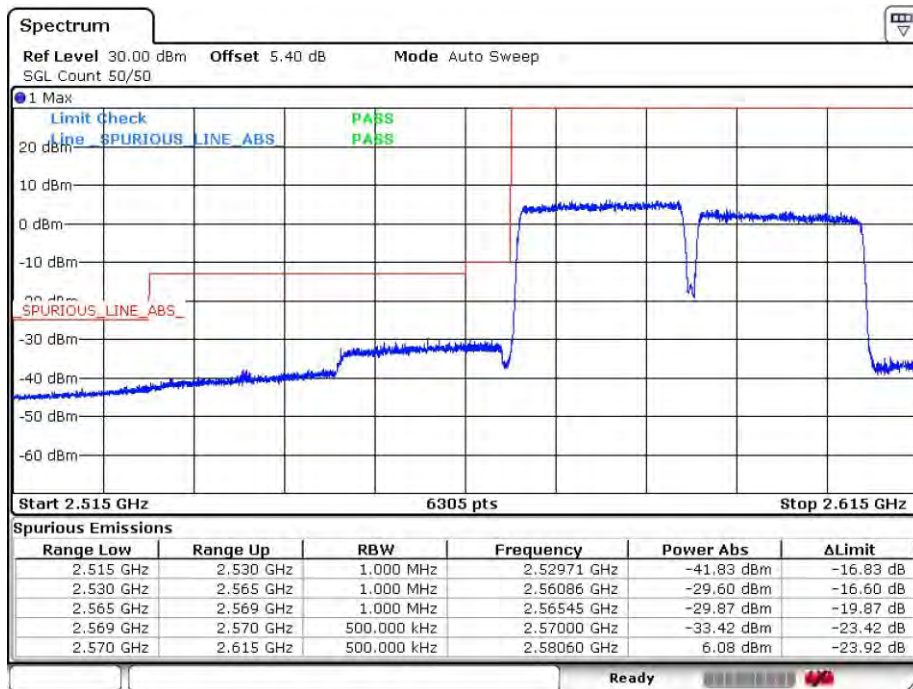
5.1.1.5.1.1 Test RB=1RB#0+0RB#0



Date: 3 JAN 2020 08:22:02



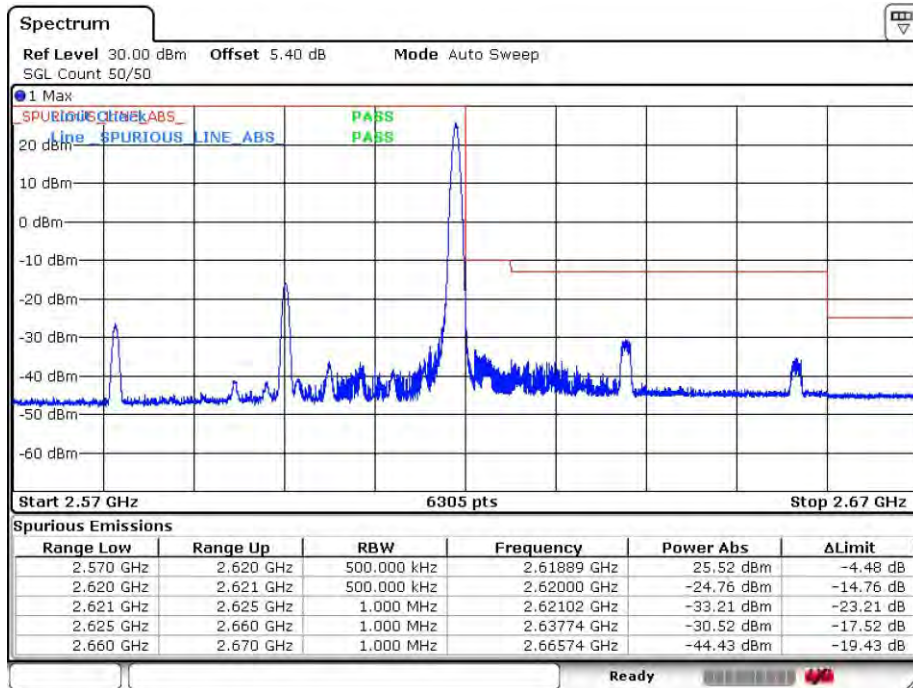
5.1.1.5.1.2 Test RB=100RB#0+100RB#0



Date: 3 JAN 2020 08:17:36

5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB#99+0RB#0



Date: 3 JAN 2020 08:36:02

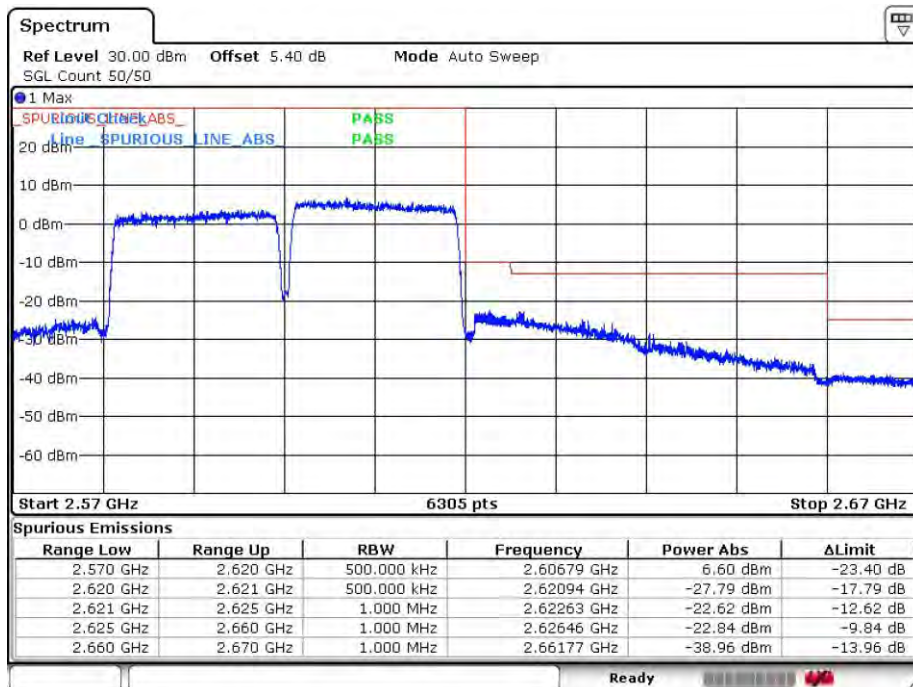


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5.1.1.5.2.2 Test RB=100RB#0+100RB#0

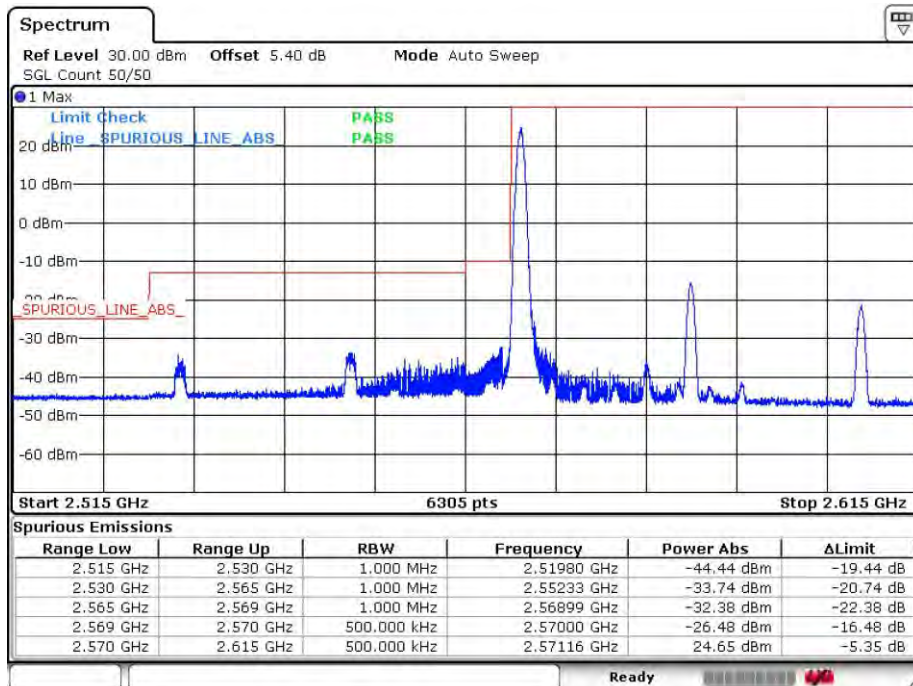


Date: 3 JAN 2020 08:29:24

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

5.1.1.6.1 Test Channel = LCH

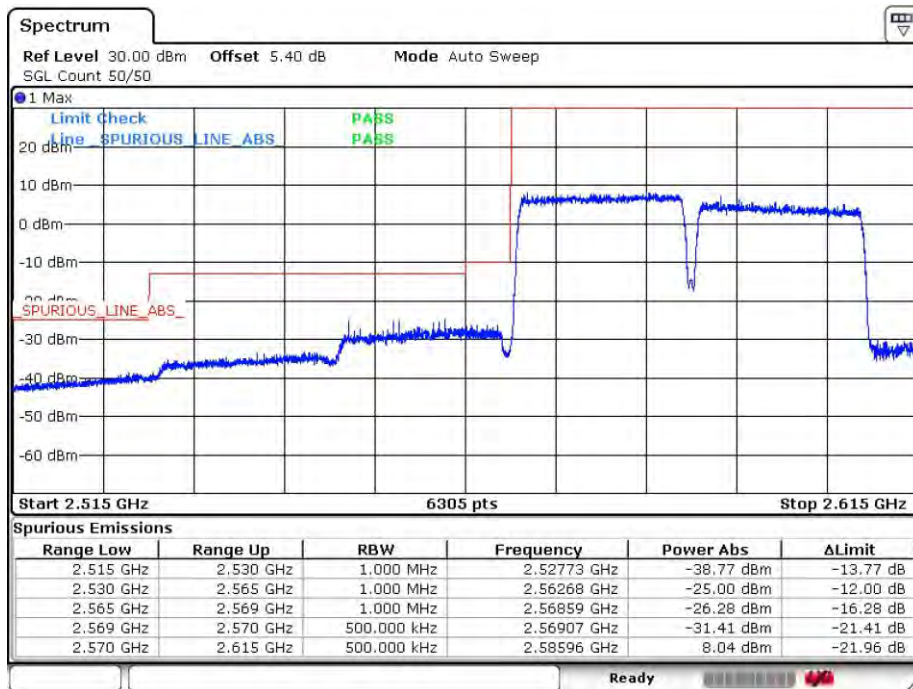
5.1.1.6.1.1 Test RB=1RB#0+0RB#0



Date: 3 JAN 2020 08:20:56



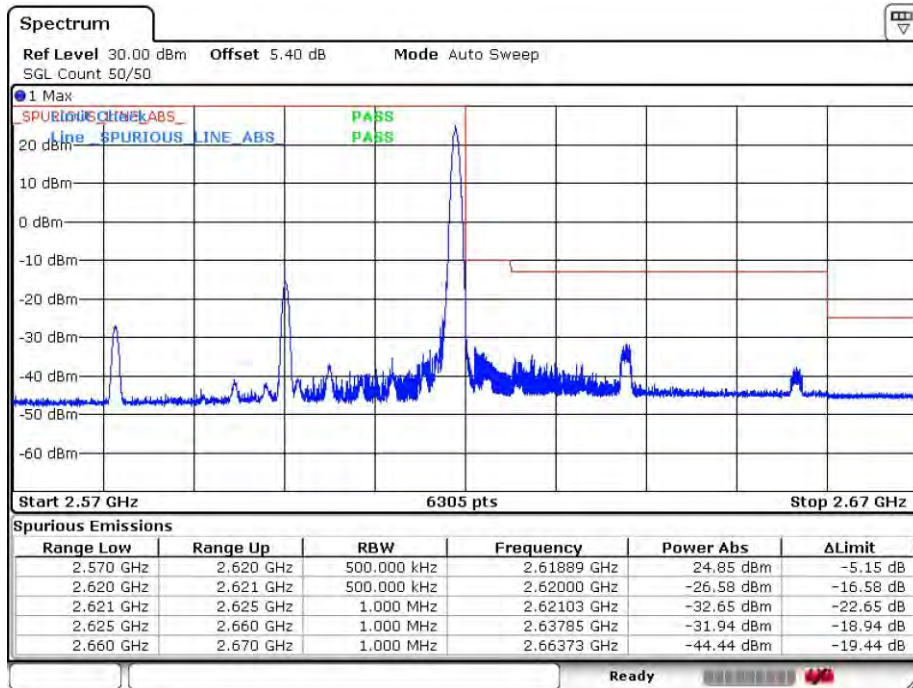
5.1.1.6.1.2 Test RB=100RB#0+100RB#0



Date: 3 JAN 2020 08:19:15

5.1.1.6.2 Test Channel = HCH

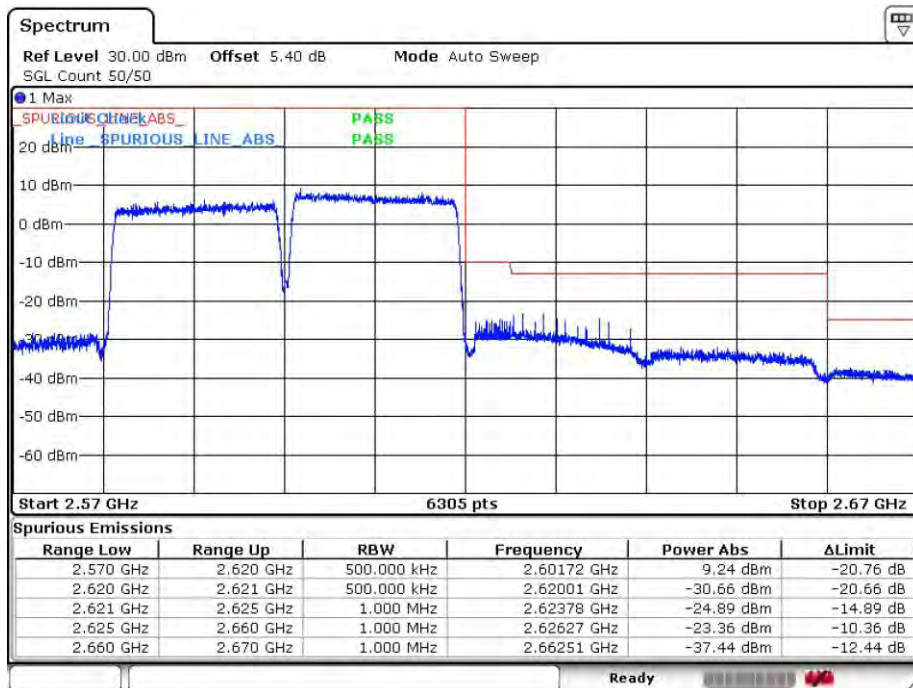
5.1.1.6.2.1 Test RB=1RB#99+0RB#0



Date: 3 JAN 2020 08:35:07



5.1.1.6.2.2 Test RB=100RB#0+100RB#0



Date: 3 JAN 2020 08:30:34



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6 Spurious Emission at Antenna Terminal

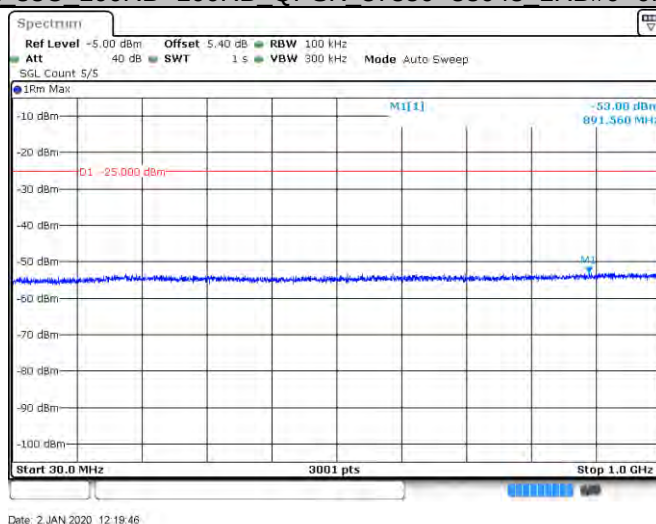
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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

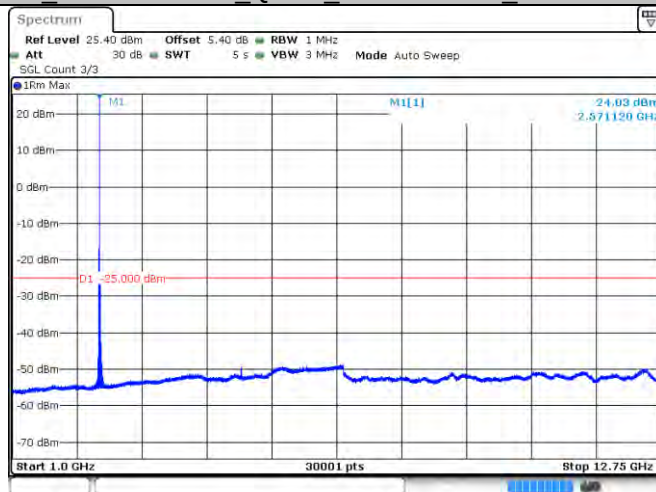
6.1.1 Test Band = LTE Band CA_38C

LTE Band CA_38C_100RB+100RB_QPSK_37850+38048_1RB#0+0RB#0_30_1000



Date: 2 JAN 2020 12:19:46

LTE Band CA_38C_100RB+100RB_QPSK_37850+38048_1RB#0+0RB#0_1000_12750



Date: 2 JAN 2020 12:21:06

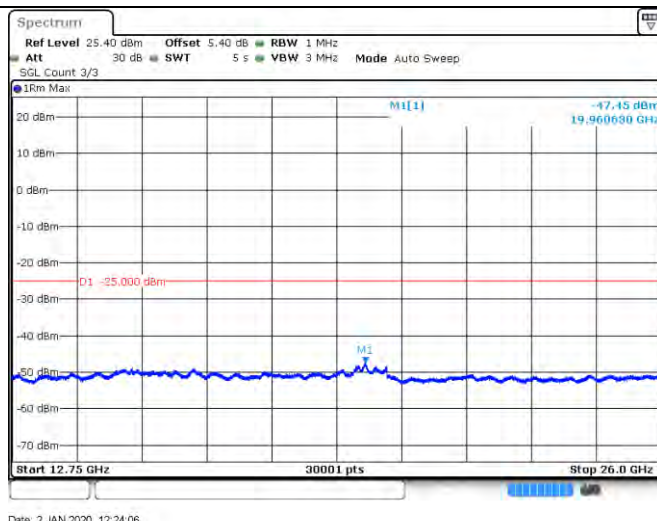
LTE Band CA_38C_100RB+100RB_QPSK_37850+38048_1RB#0+0RB#0_12750_26000



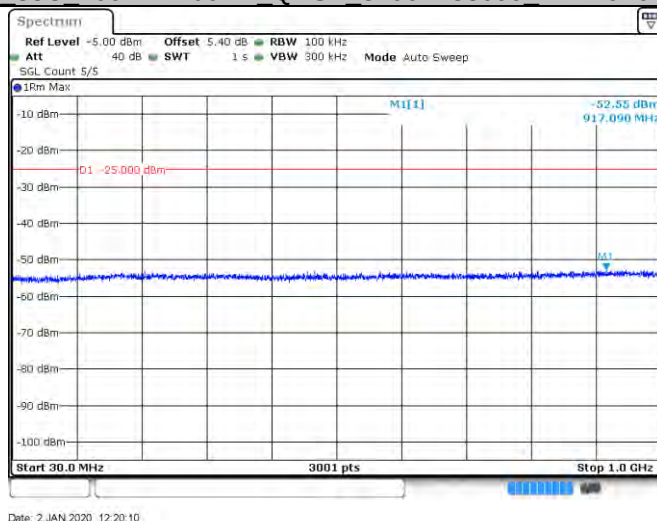
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (M-10) Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB QPSK 37901+38099 1RB#0+0RB#0 30 1000

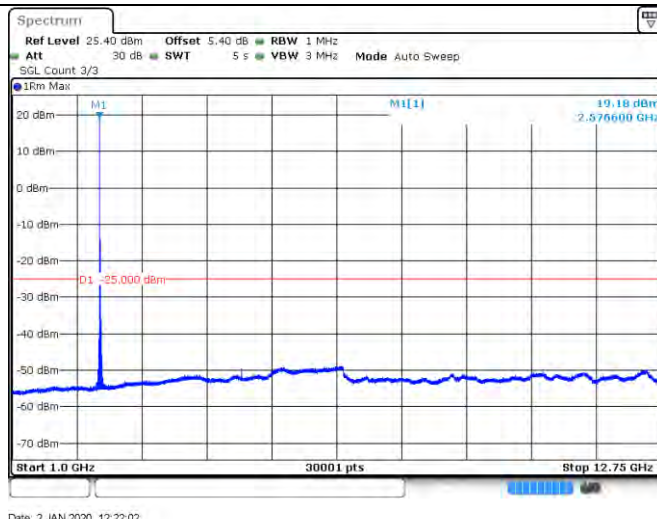


LTE Band CA 38C 100RB+100RB QPSK 37901+38099 1RB#0+0RB#0 1000 12750

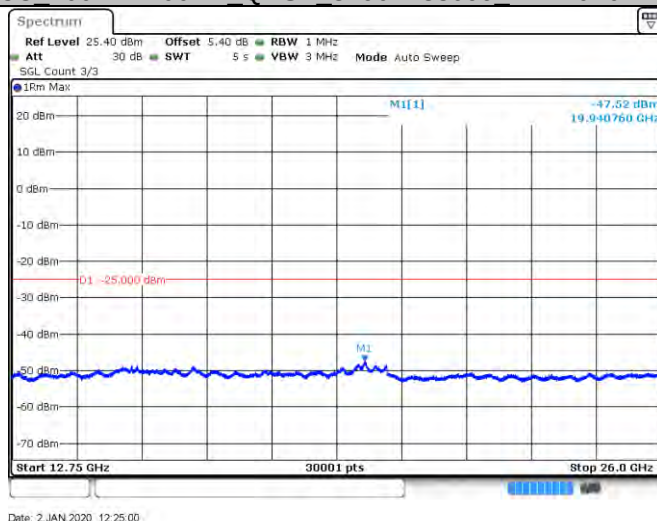


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB QPSK 37901+38099 1RB#0+0RB#0 12750 26000

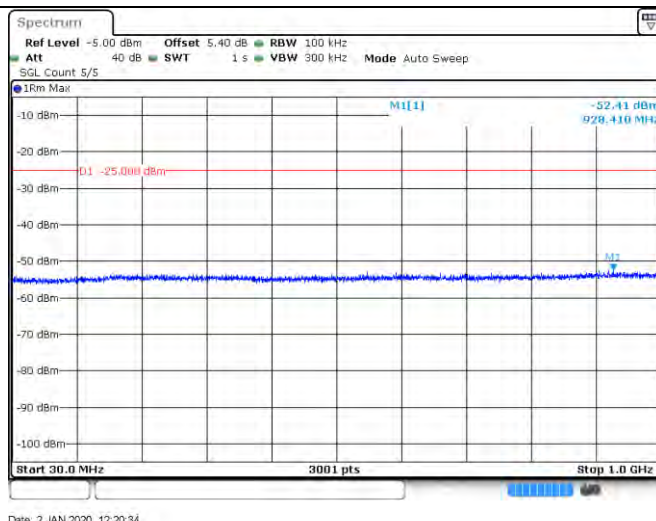


LTE Band CA 38C 100RB+100RB QPSK 37952+38150 1RB#0+0RB#0 30 1000



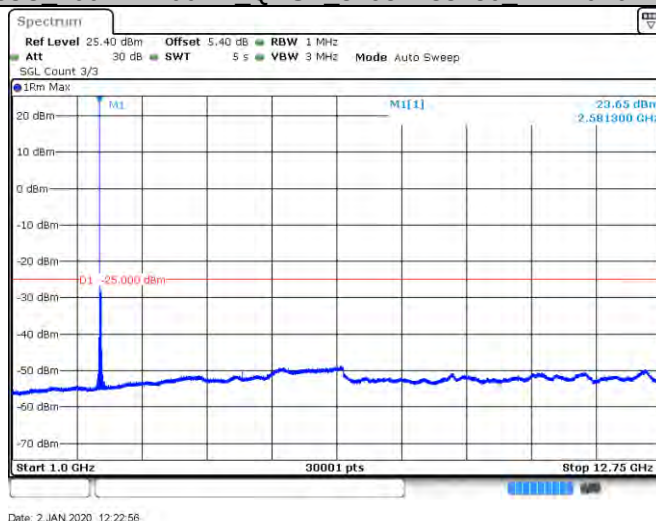
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 12:20:34

LTE Band CA 38C 100RB+100RB QPSK 37952+38150 1RB#0+0RB#0 1000 12750



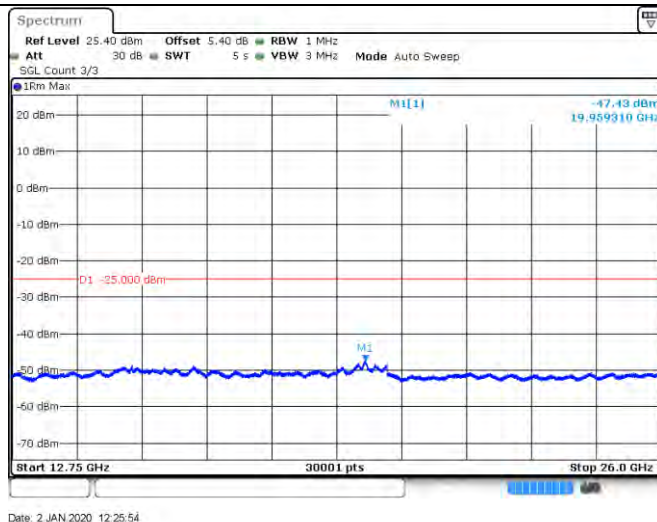
Date: 2 JAN 2020 12:22:56

LTE Band CA 38C 100RB+100RB QPSK 37952+38150 1RB#0+0RB#0 12750 26000

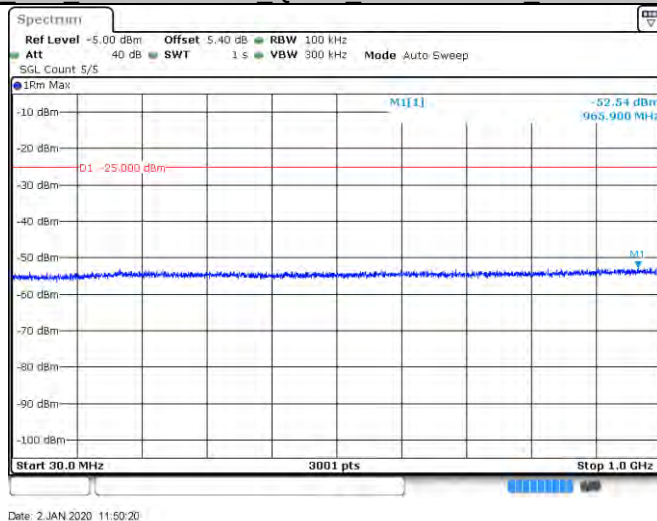


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

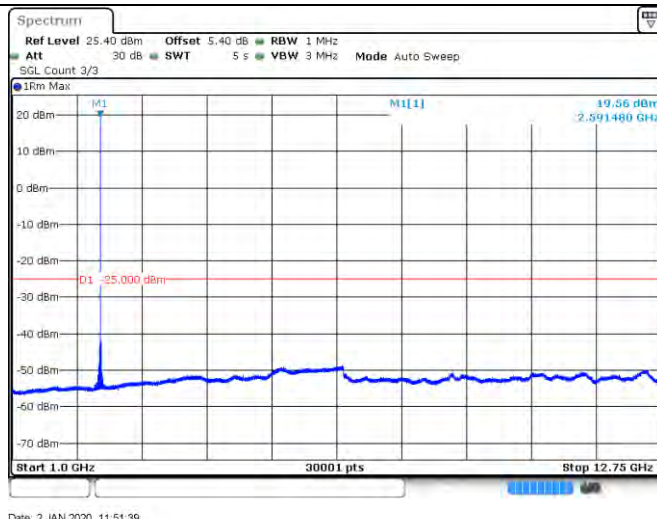


LTE Band CA 38C 100RB+100RB QPSK 38048+37850 1RB#0+0RB#0 30 1000

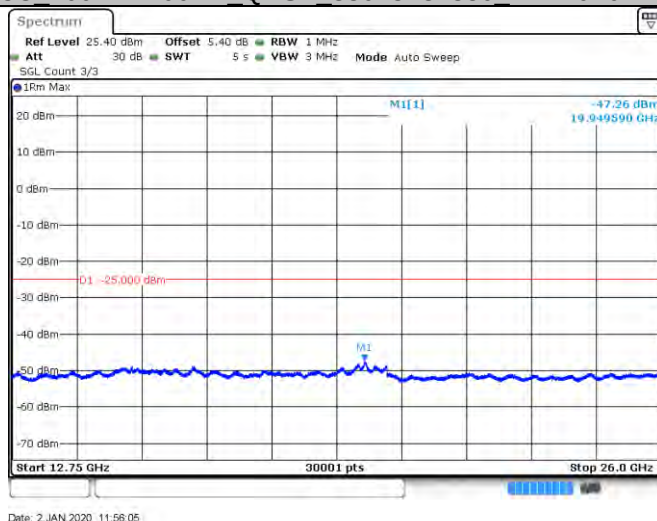


LTE Band CA 38C 100RB+100RB QPSK 38048+37850 1RB#0+0RB#0 1000 12750





LTE Band CA 38C 100RB+100RB QPSK 38048+37850 1RB#0+0RB#0 12750 26000



LTE Band CA 38C 100RB+100RB QPSK 38099+37901 1RB#0+0RB#0 30 1000

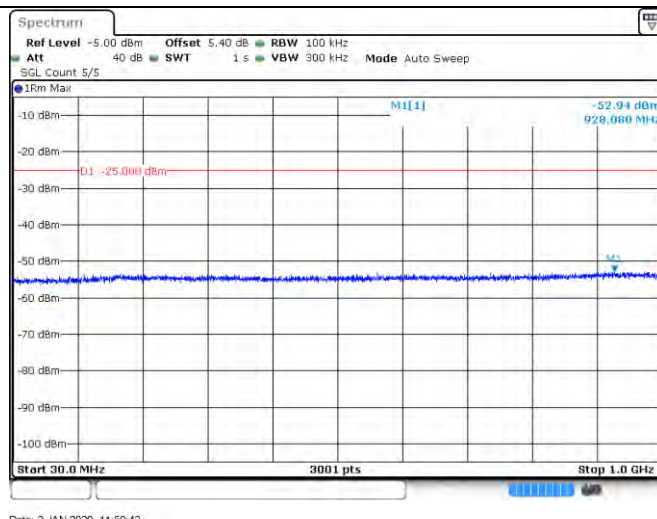


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

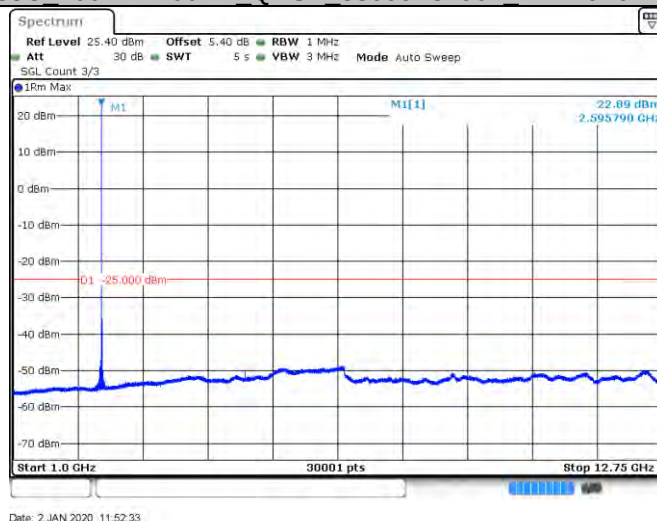
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 11:50:42

LTE Band CA 38C 100RB+100RB QPSK 38099+37901 1RB#0+0RB#0 1000 12750



Date: 2 JAN 2020 11:52:33

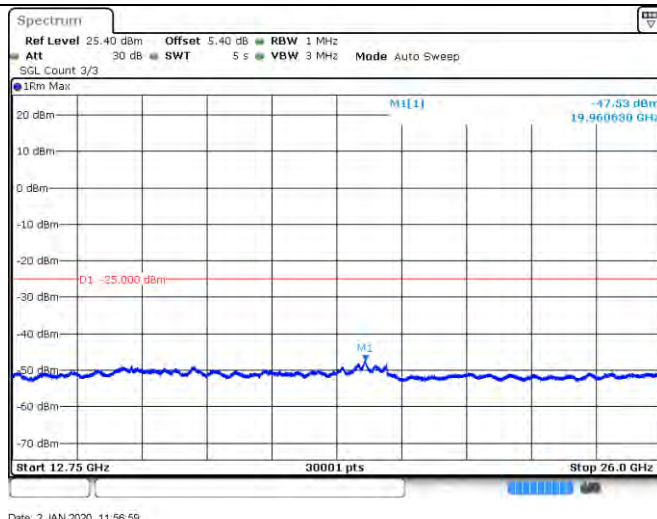
LTE Band CA 38C 100RB+100RB QPSK 38099+37901 1RB#0+0RB#0 12750 26000



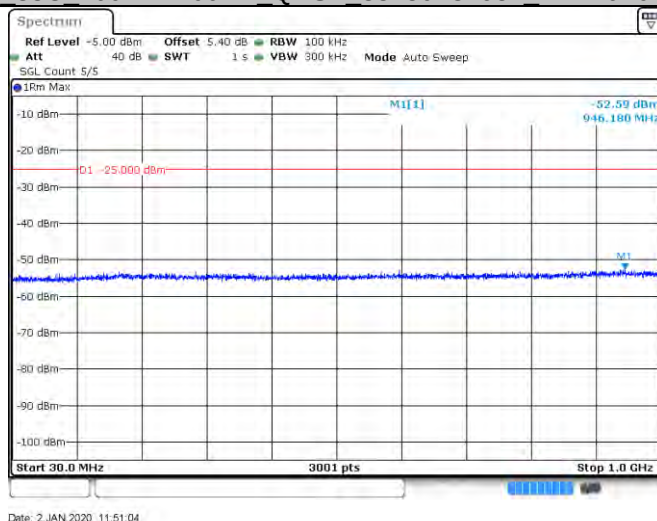
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Publicly Accredited Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB QPSK 38150+37952 1RB#0+0RB#0 30 1000

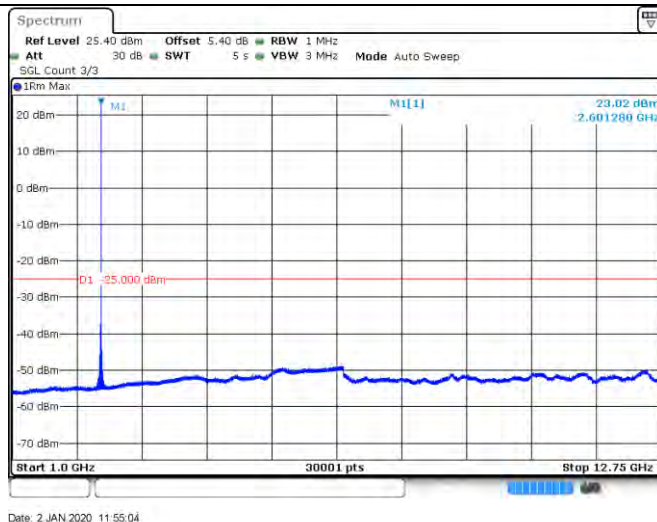


LTE Band CA 38C 100RB+100RB QPSK 38150+37952 1RB#0+0RB#0 1000 12750

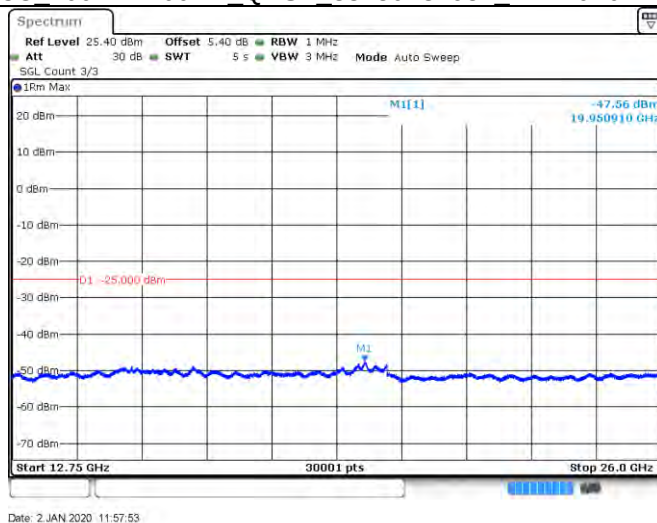


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB QPSK 38150+37952 1RB#0+0RB#0 12750 26000



LTE Band CA 38C 100RB+100RB 16QAM 37850+38048 1RB#0+0RB#0 30 1000

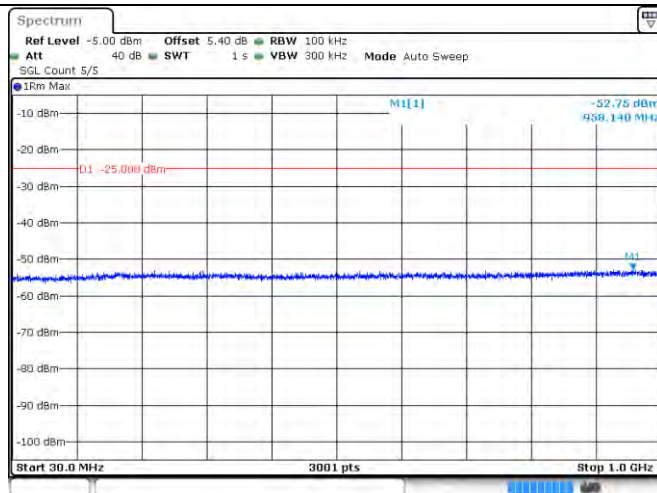


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

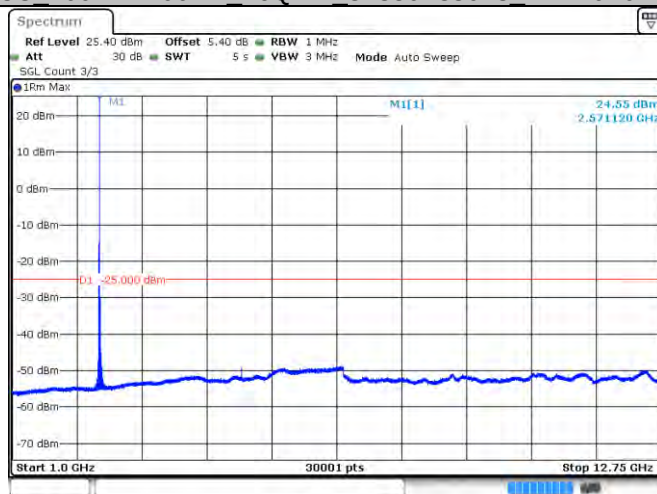
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 12:19:52

LTE Band CA 38C 100RB+100RB 16QAM 37850+38048 1RB#0+0RB#0 1000 12750



Date: 2 JAN 2020 12:21:25

LTE Band CA 38C 100RB+100RB 16QAM 37850+38048 1RB#0+0RB#0 12750 26000

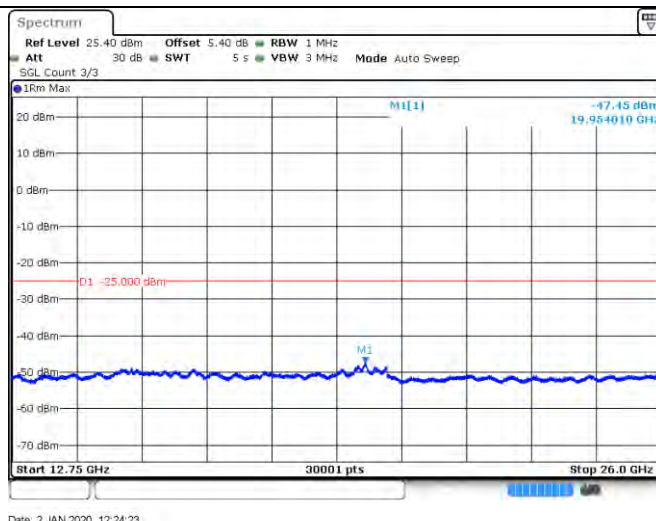


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public Service Laboratory)

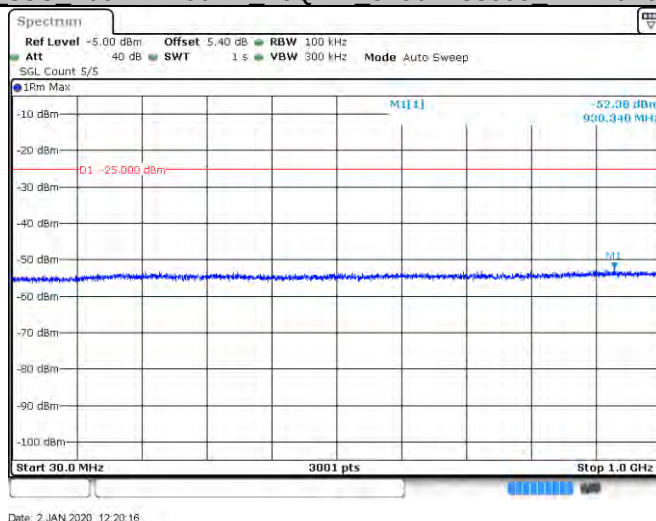
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 37901+38099 1RB#0+0RB#0 30 1000

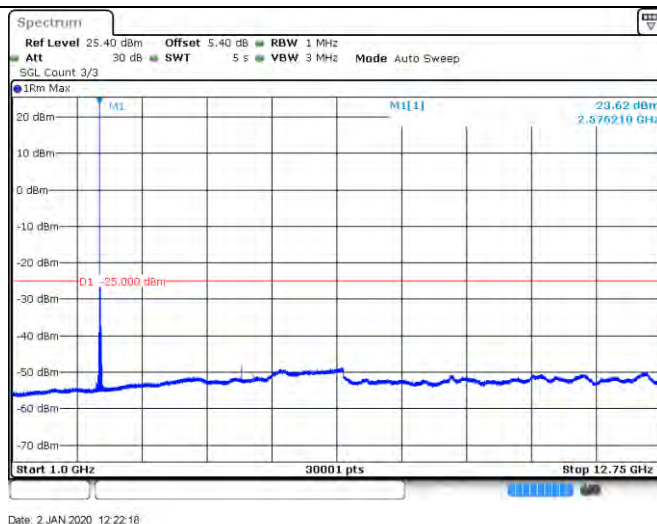


LTE Band CA 38C 100RB+100RB 16QAM 37901+38099 1RB#0+0RB#0 1000 12750

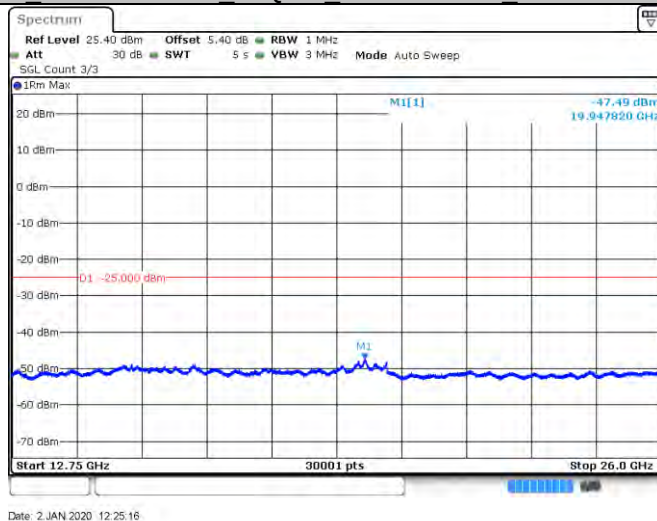


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 37901+38099 1RB#0+ORB#0 12750 26000



LTE Band CA 38C 100RB+100RB 16QAM 37952+38150 1RB#0+ORB#0 30 1000

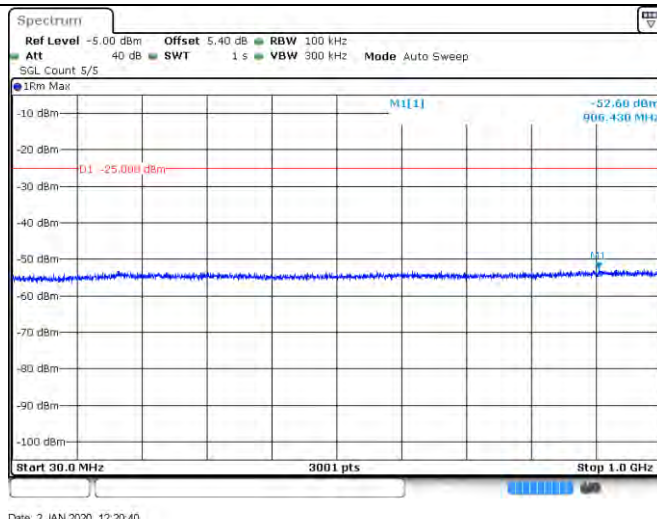


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

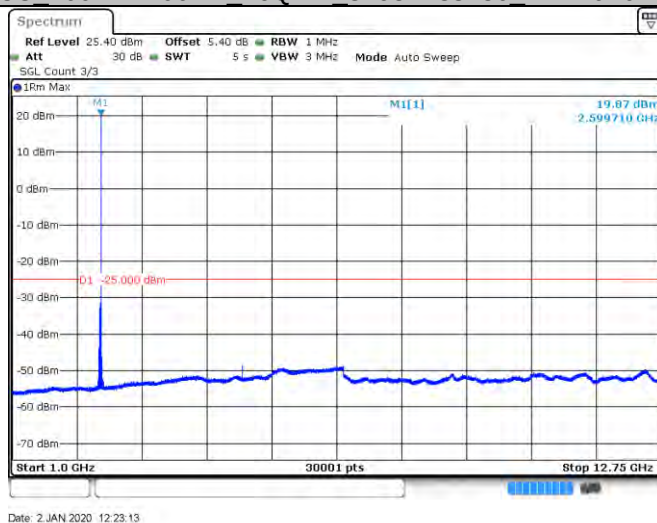
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 37952+38150 1RB#0+0RB#0 1000 12750



LTE Band CA 38C 100RB+100RB 16QAM 37952+38150 1RB#0+0RB#0 12750 26000

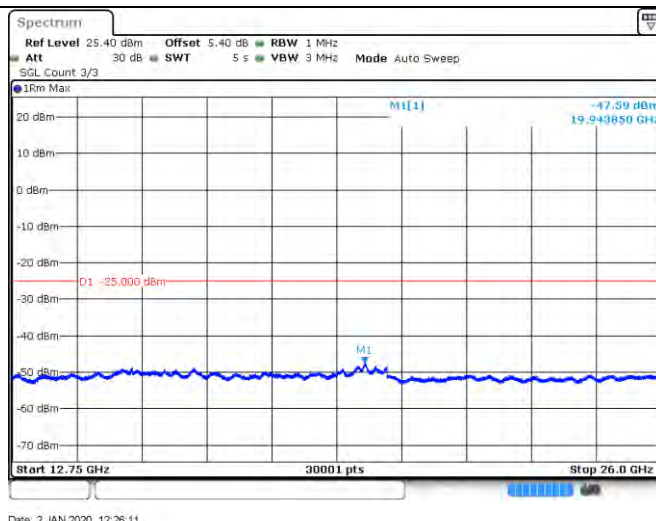


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

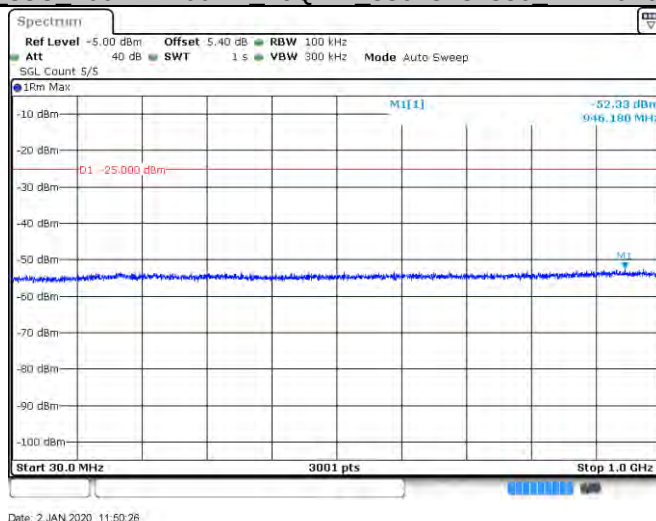
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch and Public Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 38048+37850 1RB#0+ORB#0 30 1000

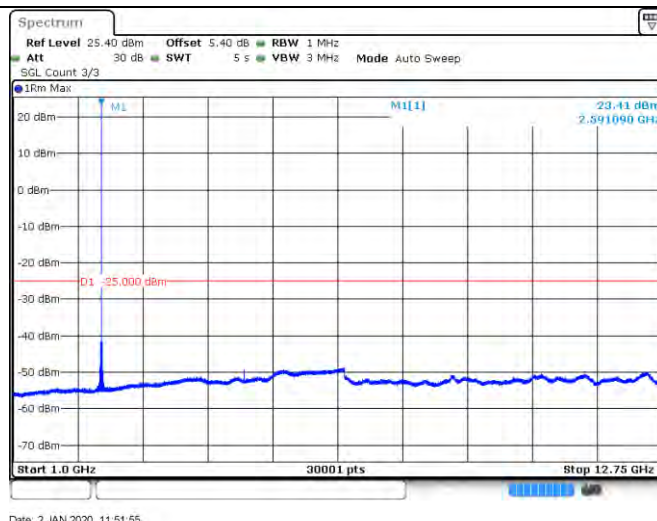


LTE Band CA 38C 100RB+100RB 16QAM 38048+37850 1RB#0+ORB#0 1000 12750

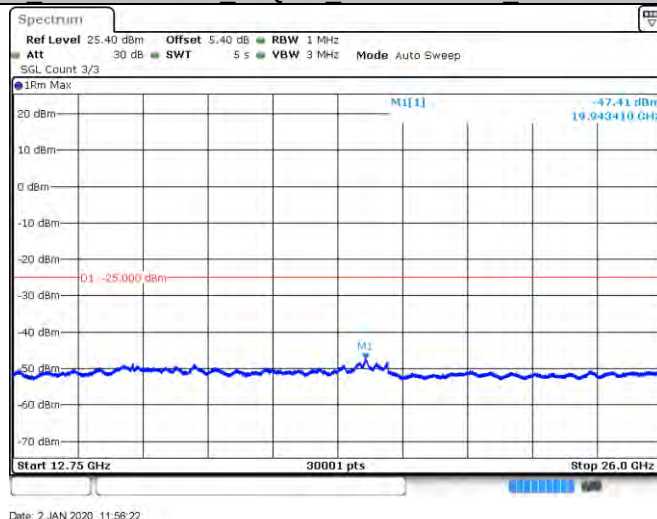


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 38048+37850 1RB#0+0RB#0 12750 26000

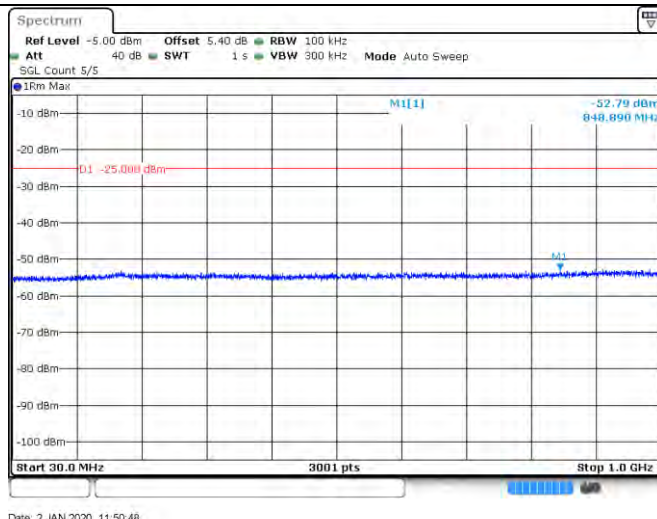


LTE Band CA 38C 100RB+100RB 16QAM 38099+37901 1RB#0+0RB#0 30 1000



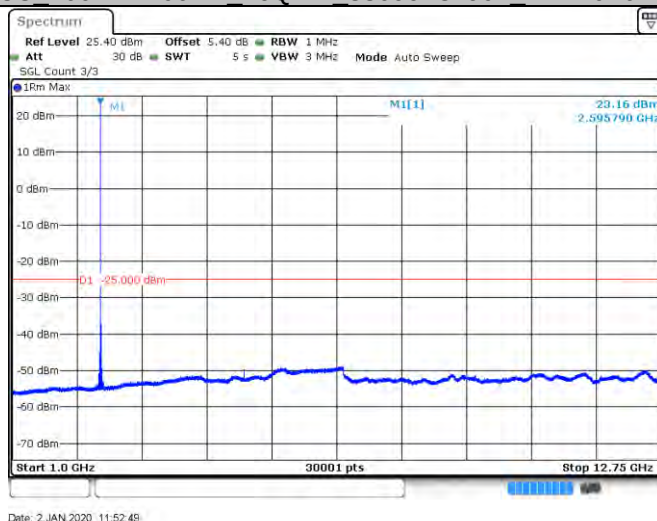
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 11:50:48

LTE Band CA 38C 100RB+100RB 16QAM 38099+37901 1RB#0+0RB#0 1000 12750



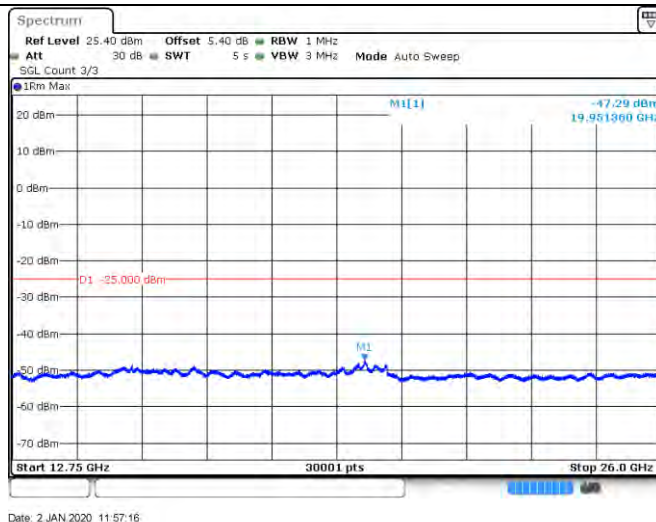
Date: 2 JAN 2020 11:52:49

LTE Band CA 38C 100RB+100RB 16QAM 38099+37901 1RB#0+0RB#0 12750 26000

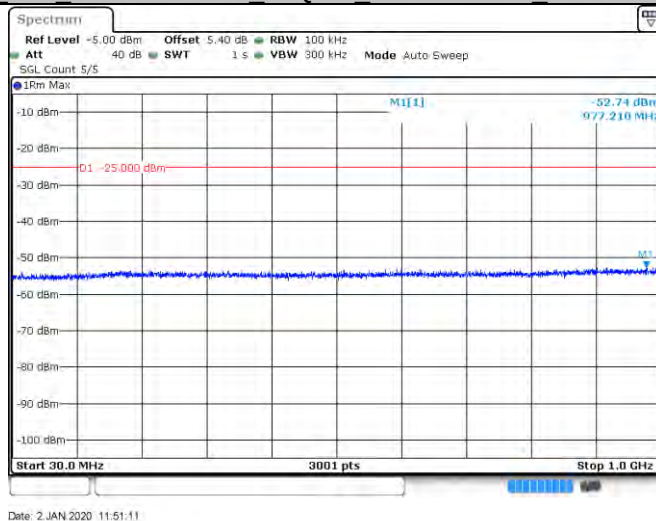


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 38150+37952 1RB#0+0RB#0 30 1000



LTE Band CA 38C 100RB+100RB 16QAM 38150+37952 1RB#0+0RB#0 1000 12750

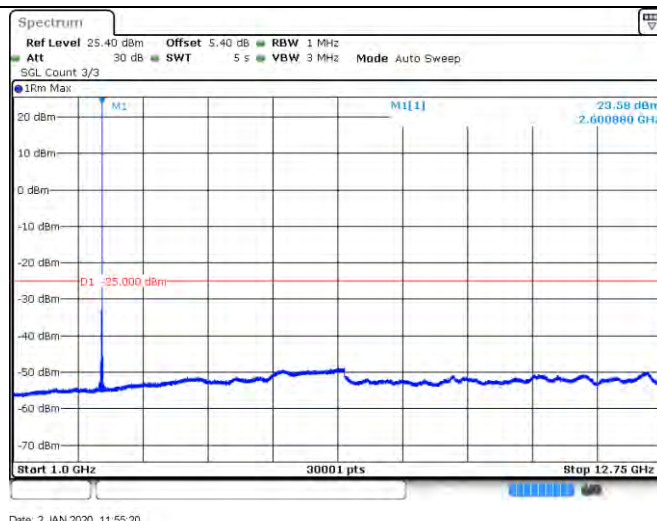


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

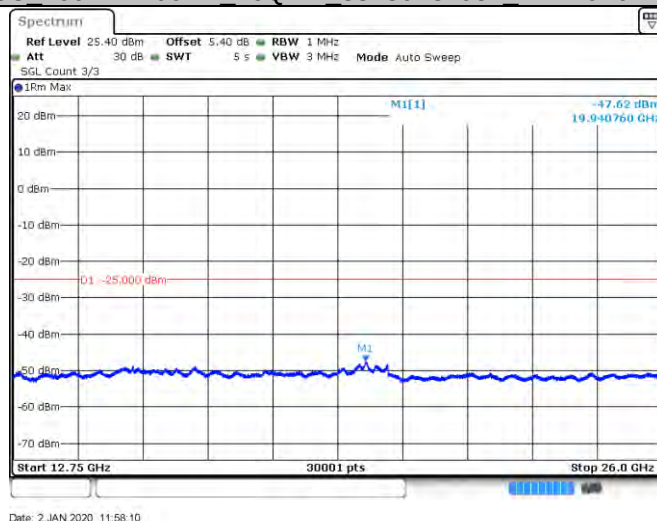
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 16QAM 38150+37952 1RB#0+0RB#0 12750 26000

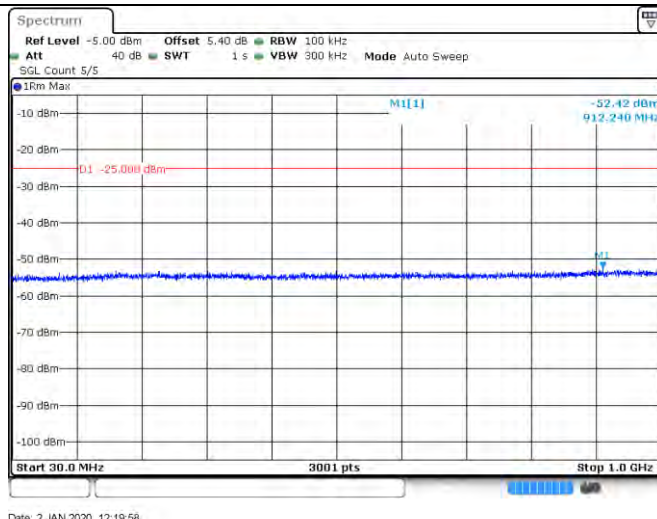


LTE Band CA 38C 100RB+100RB 64QAM 37850+38048 1RB#0+0RB#0 30 1000

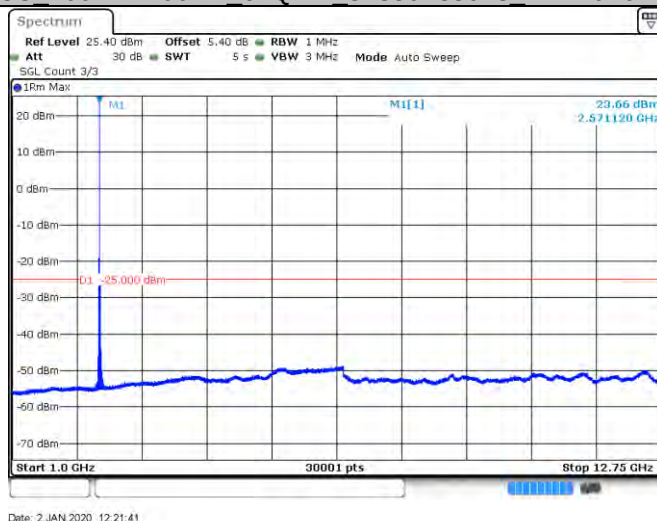


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 37850+38048 1RB#0+0RB#0 1000 12750



LTE Band CA 38C 100RB+100RB 64QAM 37850+38048 1RB#0+0RB#0 12750 26000

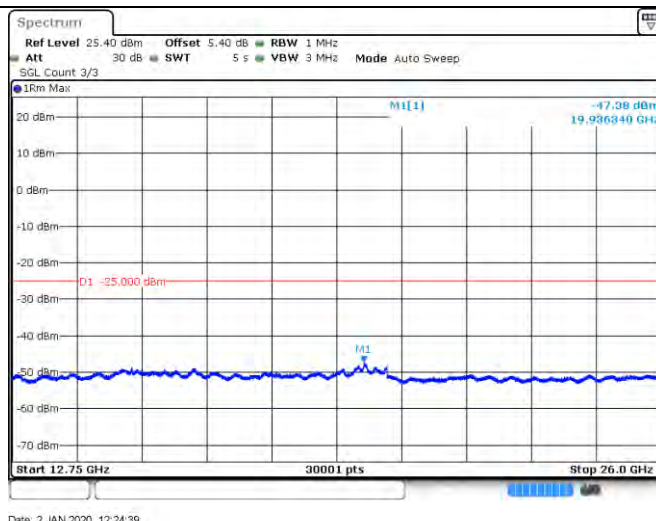


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

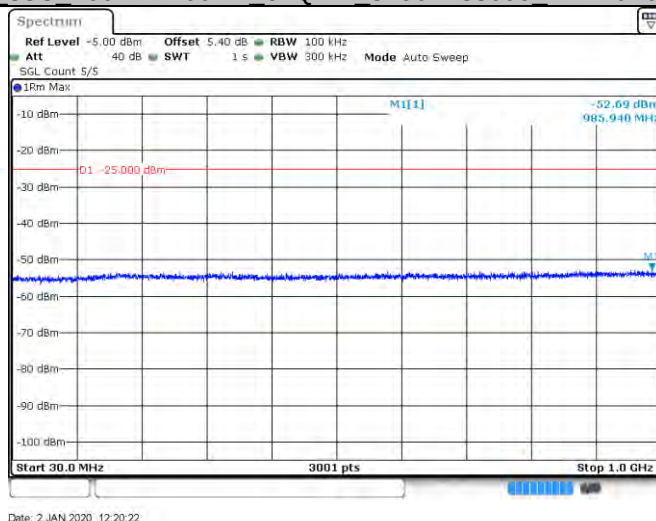
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch and Public Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 37901+38099 1RB#0+0RB#0 30 1000



LTE Band CA 38C 100RB+100RB 64QAM 37901+38099 1RB#0+0RB#0 1000 12750

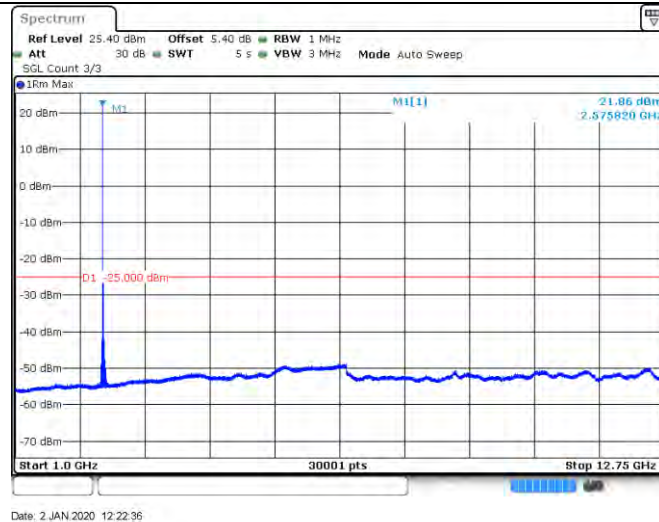


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

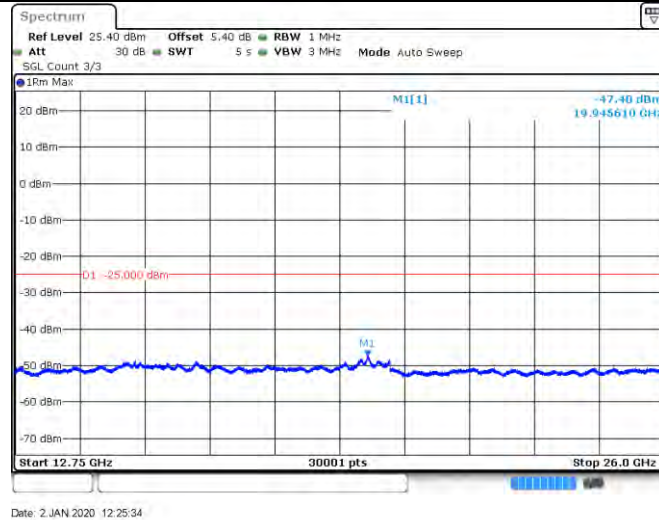
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 37901+38099 1RB#0+0RB#0 12750 26000



LTE Band CA 38C 100RB+100RB 64QAM 37952+38150 1RB#0+0RB#0 30 1000

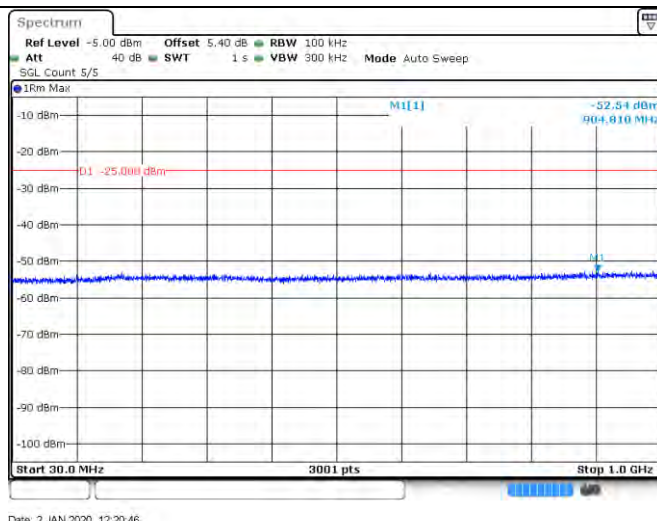


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

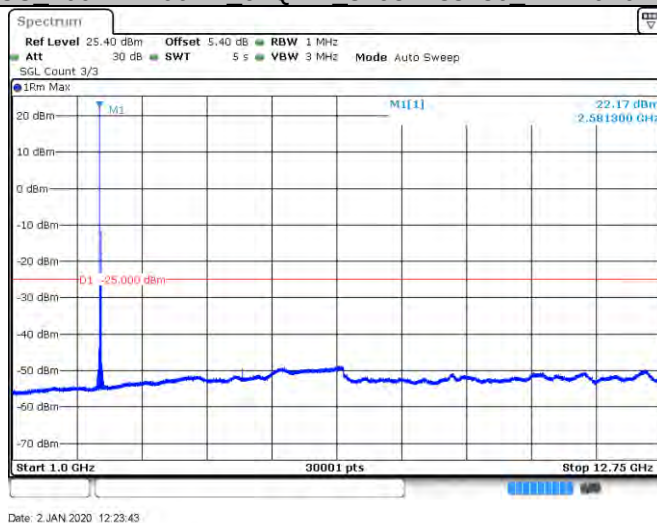
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 JAN 2020 12:20:46

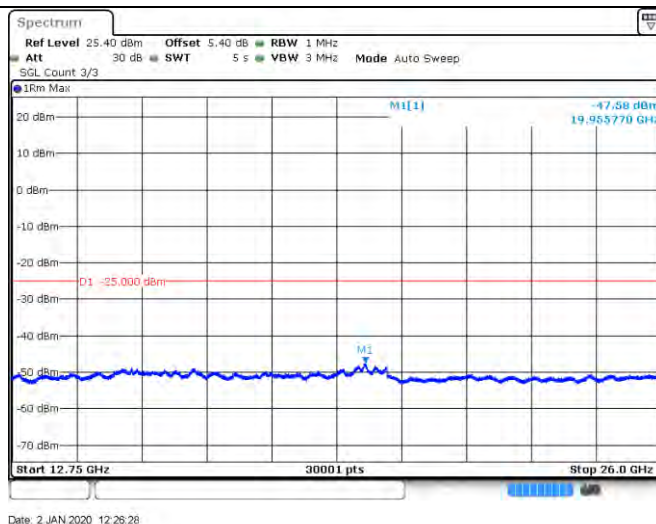
LTE Band CA 38C 100RB+100RB 64QAM 37952+38150 1RB#0+0RB#0 1000 12750



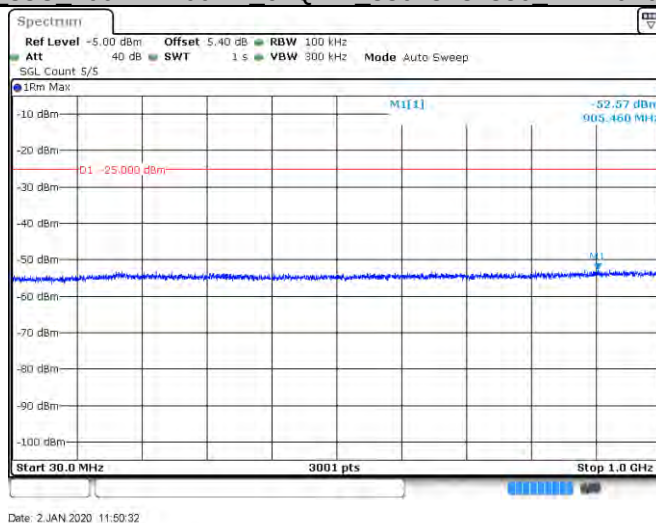
Date: 2 JAN 2020 12:23:43

LTE Band CA 38C 100RB+100RB 64QAM 37952+38150 1RB#0+0RB#0 12750 26000





LTE Band CA 38C 100RB+100RB 64QAM 38048+37850 1RB#0+0RB#0 30 1000



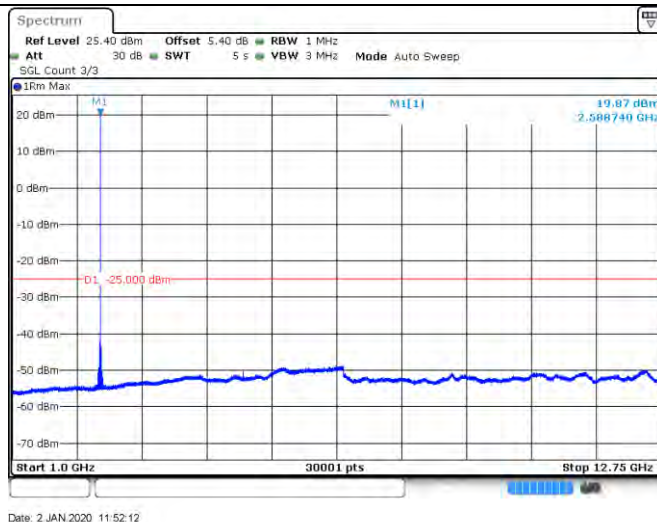
LTE Band CA 38C 100RB+100RB 64QAM 38048+37850 1RB#0+0RB#0 1000 12750



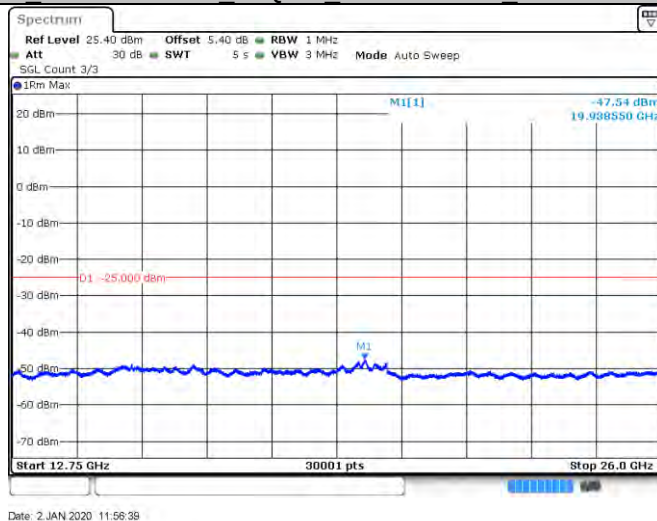
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced or further distributed without the prior written consent of the Company. Any use of the content of the document or the appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1442.

中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 38048+37850 1RB#0+0RB#0 12750 26000

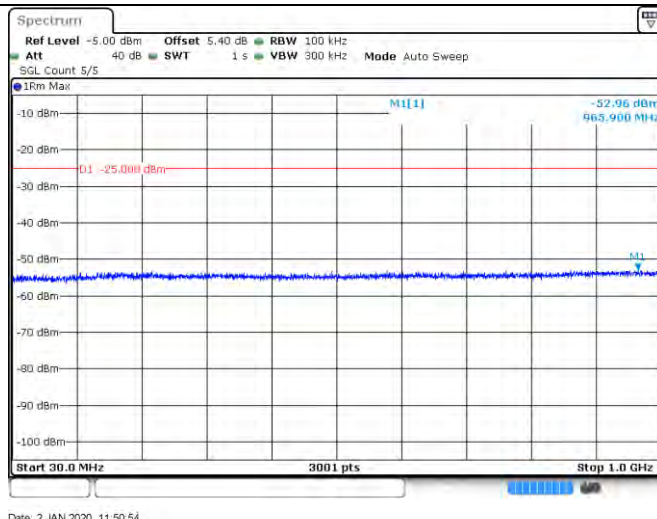


LTE Band CA 38C 100RB+100RB 64QAM 38099+37901 1RB#0+0RB#0 30 1000

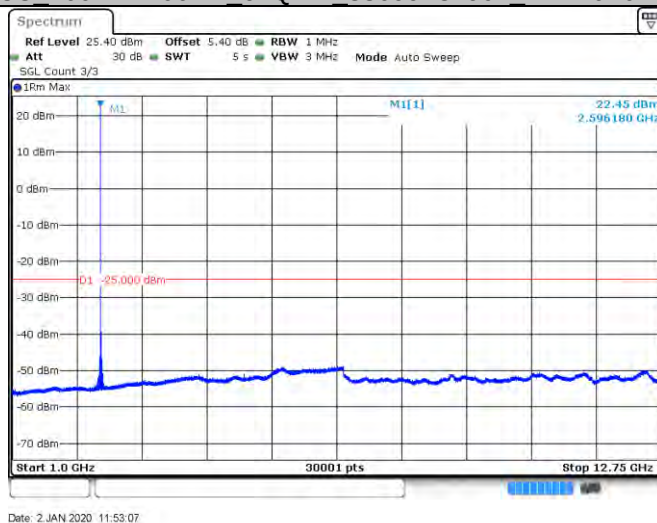


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 38099+37901 1RB#0+0RB#0 1000 12750



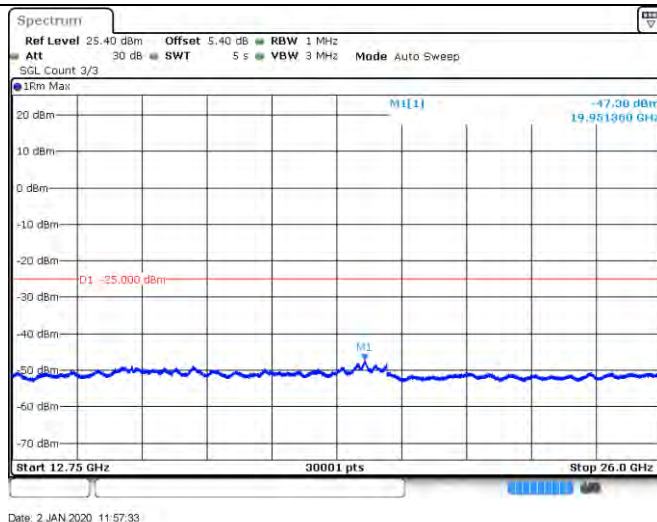
LTE Band CA 38C 100RB+100RB 64QAM 38099+37901 1RB#0+0RB#0 12750 26000



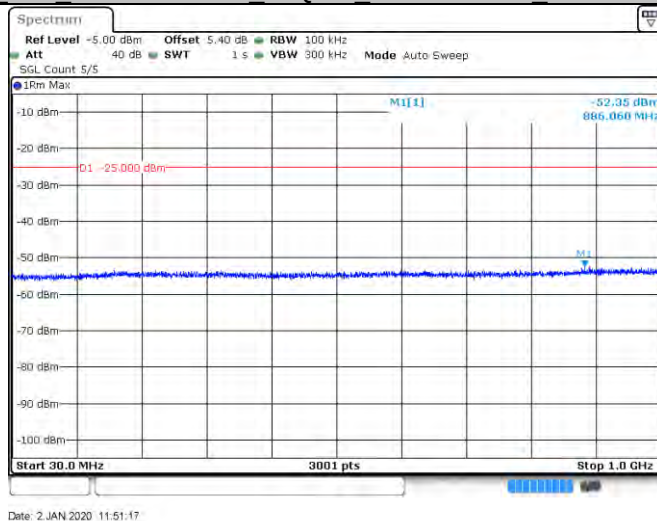
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 38150+37952 1RB#0+0RB#0 30 1000



LTE Band CA 38C 100RB+100RB 64QAM 38150+37952 1RB#0+0RB#0 1000 12750

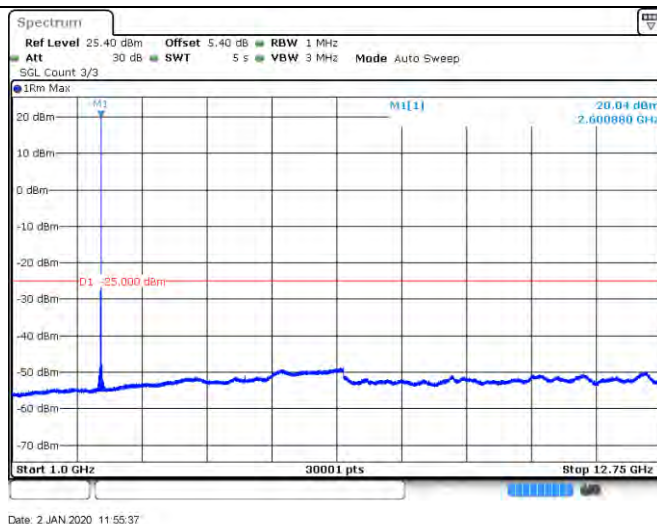


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

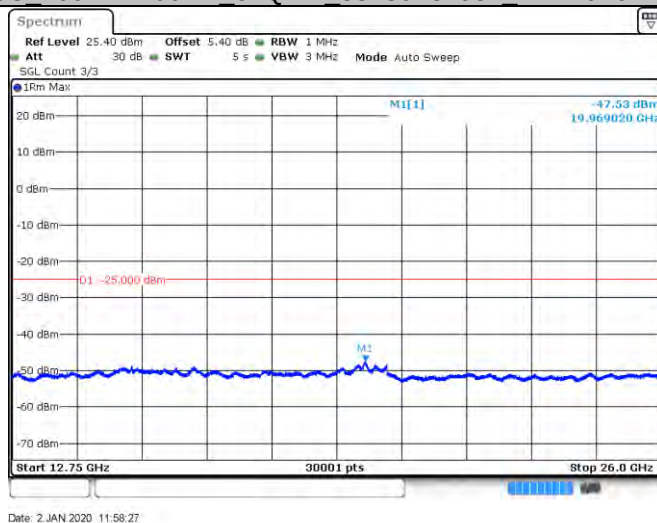
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



LTE Band CA 38C 100RB+100RB 64QAM 38150+37952 1RB#0+0RB#0 12750 26000



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7 Field Strength of Spurious Radiation

7.1 For LTE UL CA

7.1.1 Test Band = LTE Band CA_38C (Ant0)

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)	Height [cm]	Angle [°]	Polarization
54.5659	-70.90	-25.00	45.90	243	185	Vertical
110.3286	-63.58	-25.00	38.58	265	33	Vertical
464.8031	-65.85	-25.00	40.85	198	72	Vertical
1790.6112	-43.65	-25.00	18.65	229	171	Vertical
7439.7221	-55.43	-25.00	30.43	280	141	Vertical
17990.0801	-39.94	-25.00	14.94	213	219	Vertical
45.3491	-62.23	-25.00	37.23	170	86	Horizontal
238.9362	-67.18	-25.00	42.18	166	86	Horizontal
658.3913	-62.51	-25.00	37.51	242	315	Horizontal
1800.6562	-42.93	-25.00	17.93	224	347	Horizontal
9323.3167	-51.67	-25.00	26.67	251	287	Horizontal
16371.7067	-43.49	-25.00	18.49	279	122	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
114.0204	-63.68	-25.00	38.68	244	132	Vertical
283.0042	-68.10	-25.00	43.10	215	75	Vertical
677.3860	-62.93	-25.00	37.93	278	180	Vertical
2088.3538	-41.49	-25.00	16.49	187	77	Vertical
8026.0960	-54.42	-25.00	29.42	201	197	Vertical
17991.7403	-39.40	-25.00	14.40	299	255	Vertical
44.6944	-63.89	-25.00	38.89	285	330	Horizontal
232.3444	-68.38	-25.00	43.38	223	328	Horizontal
870.3369	-59.86	-25.00	34.86	199	185	Horizontal
1786.3707	-43.40	-25.00	18.40	276	176	Horizontal
7441.5501	-55.48	-25.00	30.48	281	273	Horizontal
16392.7788	-43.52	-25.00	18.52	269	237	Horizontal





7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.4773	-68.63	-25.00	43.63	273	265	Vertical
108.1518	-64.17	-25.00	39.17	174	243	Vertical
393.8207	-66.82	-25.00	41.82	188	304	Vertical
1788.8525	-43.46	-25.00	18.46	178	256	Vertical
7955.7115	-55.46	-25.00	30.46	155	177	Vertical
17997.8789	-39.44	-25.00	14.44	198	187	Vertical
47.0633	-65.17	-25.00	40.17	199	154	Horizontal
234.9408	-67.67	-25.00	42.67	161	30	Horizontal
639.7400	-62.78	-25.00	37.78	275	169	Horizontal
1803.9845	-42.97	-25.00	17.97	268	263	Horizontal
9339.9307	-52.02	-25.00	27.02	268	187	Horizontal
16392.9931	-43.40	-25.00	18.40	291	157	Horizontal

7.1.2 Test Band = LTE Band CA_38C (Ant2)

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)	Height [cm]	Angle [°]	Polarization
54.5904	-70.60	-25.00	45.60	290	113	Vertical
110.4612	-63.30	-25.00	38.30	176	255	Vertical
464.7989	-65.61	-25.00	40.61	269	77	Vertical
1790.5547	-43.67	-25.00	18.67	216	102	Vertical
7440.1875	-55.23	-25.00	30.23	247	172	Vertical
17990.4081	-40.08	-25.00	15.08	285	59	Vertical
45.7414	-62.12	-25.00	37.12	250	247	Horizontal
239.5071	-67.04	-25.00	42.04	209	72	Horizontal
659.1094	-62.14	-25.00	37.14	156	225	Horizontal
1801.0190	-42.51	-25.00	17.51	181	237	Horizontal
9323.6591	-51.18	-25.00	26.18	172	349	Horizontal
16371.7617	-43.10	-25.00	18.10	266	49	Horizontal

7.1.2.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
114.5874	-63.45	-25.00	38.45	262	116	Vertical
283.1954	-68.43	-25.00	43.43	287	324	Vertical
677.5008	-62.64	-25.00	37.64	195	281	Vertical
2088.7310	-41.15	-25.00	16.15	204	191	Vertical
8026.3303	-54.17	-25.00	29.17	218	321	Vertical
17991.9132	-39.27	-25.00	14.27	256	117	Vertical
44.8614	-63.43	-25.00	38.43	204	201	Horizontal
232.7351	-67.55	-25.00	42.55	231	158	Horizontal
870.6141	-59.42	-25.00	34.42	209	146	Horizontal
1786.9273	-43.02	-25.00	18.02	183	12	Horizontal
7441.6175	-55.35	-25.00	30.35	266	269	Horizontal



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



16392.6654	-43.11	-25.00	18.11	168	256	Horizontal
------------	--------	--------	-------	-----	-----	------------

7.1.2.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.8855	-68.44	-25.00	43.44	221	50	Vertical
108.6289	-64.16	-25.00	39.16	161	64	Vertical
394.4028	-65.99	-25.00	40.99	178	186	Vertical
1788.8757	-43.29	-25.00	18.29	285	197	Vertical
7956.0511	-55.22	-25.00	30.22	211	73	Vertical
17998.1054	-39.34	-25.00	14.34	241	225	Vertical
47.1665	-65.11	-25.00	40.11	274	87	Horizontal
235.1035	-67.14	-25.00	42.14	223	15	Horizontal
640.0460	-62.11	-25.00	37.11	207	169	Horizontal
1803.8821	-42.77	-25.00	17.77	255	11	Horizontal
9340.0969	-51.96	-25.00	26.96	295	146	Horizontal
16393.3044	-42.95	-25.00	17.95	186	97	Horizontal

7.1.3 Test Band = LTE Band CA_38C (Ant3)

7.1.3.1 Test Mode = LTE/QPSK

7.1.3.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
113.6417	-64.49	-25.00	39.49	252	193	Vertical
619.7068	-62.72	-25.00	37.72	201	302	Vertical
2707.5068	-36.83	-25.00	11.83	281	270	Vertical
7362.2812	-55.71	-25.00	30.71	150	203	Vertical
14451.6867	-47.46	-25.00	22.46	218	329	Vertical
17986.0082	-39.90	-25.00	14.90	226	303	Vertical
45.2145	-63.60	-25.00	38.60	244	238	Horizontal
237.6951	-67.84	-25.00	42.84	165	14	Horizontal
771.7237	-61.27	-25.00	36.27	259	269	Horizontal
2941.8498	-37.55	-25.00	12.55	273	154	Horizontal
7469.5846	-56.77	-25.00	31.77	158	185	Horizontal
16387.4212	-43.80	-25.00	18.80	282	185	Horizontal

7.1.3.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.3707	-64.36	-25.00	39.36	157	139	Vertical
738.9789	-60.76	-25.00	35.76	273	83	Vertical
2990.5689	-37.59	-25.00	12.59	198	229	Vertical
7361.2729	-55.59	-25.00	30.59	258	266	Vertical
14724.4733	-47.85	-25.00	22.85	177	157	Vertical
17999.4528	-39.66	-25.00	14.66	282	206	Vertical
41.1801	-63.90	-25.00	38.90	213	233	Horizontal
236.9166	-67.41	-25.00	42.41	191	62	Horizontal



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



810.8578	-61.31	-25.00	36.31	208	156	Horizontal
2985.3685	-38.20	-25.00	13.20	185	76	Horizontal
7473.5549	-56.22	-25.00	31.22	236	125	Horizontal
16401.2980	-43.89	-25.00	18.89	244	274	Horizontal

7.1.3.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.4245	-72.39	-25.00	47.39	291	348	Vertical
111.4690	-64.46	-25.00	39.46	300	265	Vertical
552.2748	-65.73	-25.00	40.73	233	100	Vertical
1780.5805	-43.80	-25.00	18.80	167	49	Vertical
8031.3518	-56.31	-25.00	31.31	223	318	Vertical
17996.3455	-40.32	-25.00	15.32	248	2	Vertical
46.8776	-62.21	-25.00	37.21	262	76	Horizontal
233.9074	-67.55	-25.00	42.55	230	24	Horizontal
539.3576	-63.88	-25.00	38.88	214	271	Horizontal
1797.7419	-43.16	-25.00	18.16	223	268	Horizontal
7494.3221	-56.57	-25.00	31.57	218	347	Horizontal
16394.4431	-43.81	-25.00	18.81	237	37	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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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	NV	11.06	0.004286	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	NV	-2.18	-0.000845	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	NV	-11.58	-0.004470	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	TN	NV	-15.89	-0.006111	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	TN	NV	-13.50	-0.005181	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	TN	NV	-9.92	-0.003802	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	NV	-2.36	-0.000916	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	NV	5.25	0.002029	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	NV	-4.86	-0.001875	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	TN	NV	-6.68	-0.002568	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	TN	NV	8.57	0.003290	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	TN	NV	0.53	0.000201	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	NV	1.24	0.000482	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	NV	-11.32	-0.004378	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	NV	-12.68	-0.004894	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	TN	NV	-5.80	-0.002230	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	TN	NV	-8.42	-0.003232	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	TN	NV	12.71	0.004869	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	13.44	0.005208	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-20	14.23	0.005514	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-10	-5.94	-0.002302	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	0	9.80	0.003798	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	10	10.96	0.004247	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	20	5.78	0.002239	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	30	6.03	0.002337	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	40	-4.46	-0.001728	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	50	-8.02	-0.003107	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-30	-11.12	-0.004302	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-20	6.05	0.002342	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-10	2.34	0.000904	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	0	-0.89	-0.000344	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	10	14.45	0.005591	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	20	9.68	0.003746	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	30	-3.04	-0.001176	PASS





CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	40	-4.08	-0.001577	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	50	1.50	0.000581	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-30	-0.15	-0.000057	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-20	9.74	0.003760	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-10	-9.59	-0.003701	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	0	8.54	0.003297	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	10	-12.31	-0.004754	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	20	-5.99	-0.002314	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	30	-7.25	-0.002799	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	40	8.26	0.003188	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	50	-0.72	-0.000278	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	-30	-11.16	-0.004292	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	-20	-6.43	-0.002472	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	-10	1.27	0.000490	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	0	4.64	0.001785	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	10	6.91	0.002659	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	20	7.30	0.002808	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	30	4.63	0.001780	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	40	15.17	0.005836	PASS
CA_38C	QPSK	38048+37850	100RB#0/100RB#0	NV	50	-1.11	-0.000426	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	-30	12.75	0.004893	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	-20	-1.31	-0.000501	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	-10	13.34	0.005121	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	0	9.67	0.003711	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	10	-11.28	-0.004332	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	20	-9.22	-0.003539	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	30	15.16	0.005821	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	40	7.06	0.002709	PASS
CA_38C	QPSK	38099+37901	100RB#0/100RB#0	NV	50	-0.46	-0.000176	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	-30	13.47	0.005162	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	-20	7.01	0.002688	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	-10	-11.62	-0.004451	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	0	-4.06	-0.001557	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	10	2.58	0.000987	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	20	-11.06	-0.004238	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	30	-10.25	-0.003927	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	40	10.59	0.004059	PASS
CA_38C	QPSK	38150+37952	100RB#0/100RB#0	NV	50	-10.74	-0.004117	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-30	-14.01	-0.005431	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-20	-8.70	-0.003372	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-10	-12.28	-0.004761	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	0	0.39	0.000152	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	10	-12.62	-0.004893	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	20	12.61	0.004889	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 26012053, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	30	6.81	0.002641	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	40	15.68	0.006079	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	50	7.77	0.003010	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-30	8.23	0.003185	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-20	7.44	0.002878	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-10	-2.34	-0.000904	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	0	14.73	0.005697	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	10	11.74	0.004541	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	20	-11.97	-0.004630	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	30	14.29	0.005527	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	40	-12.29	-0.004756	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	50	13.92	0.005387	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-30	7.96	0.003072	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-20	-8.13	-0.003140	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-10	-12.05	-0.004652	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	0	5.69	0.002198	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	10	-0.01	-0.000004	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	20	1.61	0.000623	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	30	10.70	0.004131	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	40	0.57	0.000218	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	50	-13.04	-0.005034	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	-30	-0.95	-0.000366	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	-20	1.75	0.000674	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	-10	-9.95	-0.003828	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	0	8.73	0.003359	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	10	-5.91	-0.002272	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	20	-1.08	-0.000417	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	30	6.78	0.002607	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	40	4.03	0.001549	PASS
CA_38C	16QAM	38048+37850	100RB#0/100RB#0	NV	50	4.42	0.001701	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	-30	13.82	0.005304	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	-20	15.48	0.005942	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	-10	10.54	0.004045	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	0	4.86	0.001867	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	10	-9.51	-0.003652	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	20	3.27	0.001254	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	30	-13.03	-0.005000	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	40	-12.46	-0.004785	PASS
CA_38C	16QAM	38099+37901	100RB#0/100RB#0	NV	50	-0.52	-0.000199	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	-30	13.51	0.005177	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	-20	-0.57	-0.000217	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	-10	-3.78	-0.001446	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	0	3.64	0.001396	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	10	-9.18	-0.003518	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch and Testing Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 26012053, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	20	5.31	0.002036	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	30	-2.53	-0.000968	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	40	-1.09	-0.000416	PASS
CA_38C	16QAM	38150+37952	100RB#0/100RB#0	NV	50	-2.12	-0.000811	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-30	8.50	0.003296	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-20	-0.18	-0.000069	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-10	0.98	0.000381	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	0	-8.64	-0.003348	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	10	3.91	0.001516	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	20	-14.60	-0.005658	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	30	-7.66	-0.002967	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	40	10.11	0.003917	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	50	12.31	0.004770	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-30	-9.09	-0.003518	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-20	3.35	0.001296	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-10	-10.97	-0.004244	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	0	-1.67	-0.000645	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	10	6.73	0.002604	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	20	-11.95	-0.004621	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	30	13.63	0.005271	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	40	0.59	0.000229	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	50	8.48	0.003279	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-30	7.04	0.002719	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-20	-4.67	-0.001801	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-10	12.49	0.004822	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	0	-4.93	-0.001903	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	10	5.91	0.002281	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	20	-3.48	-0.001342	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	30	-2.51	-0.000969	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	40	-14.74	-0.005690	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	50	2.96	0.001143	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	-30	3.47	0.001334	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	-20	-9.80	-0.003769	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	-10	-2.57	-0.000987	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	0	2.56	0.000983	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	10	-13.57	-0.005218	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	20	2.46	0.000948	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	30	4.82	0.001856	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	40	3.66	0.001407	PASS
CA_38C	64QAM	38048+37850	100RB#0/100RB#0	NV	50	-11.27	-0.004335	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	-30	5.68	0.002180	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	-20	15.02	0.005765	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	-10	-5.80	-0.002228	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	0	-1.46	-0.000559	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: CN.Doccheck@sgs.com



CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	10	4.19	0.001609	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	20	-2.30	-0.000883	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	30	-3.93	-0.001507	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	40	9.51	0.003651	PASS
CA_38C	64QAM	38099+37901	100RB#0/100RB#0	NV	50	11.74	0.004506	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	-30	0.41	0.000157	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	-20	-15.72	-0.006021	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	-10	13.61	0.005213	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	0	-3.34	-0.001280	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	10	11.74	0.004496	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	20	11.58	0.004436	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	30	12.84	0.004921	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	40	-4.59	-0.001758	PASS
CA_38C	64QAM	38150+37952	100RB#0/100RB#0	NV	50	-2.88	-0.001105	PASS

The End

