



Appendix B

E-UTRA Band 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-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

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	4
	TEST RESULT.....	4
2	PEAK-TO-AVERAGE RATIO (CCDF).....	11
	2.1 TEST RESULT.....	11
	2.2 TEST PLOTS.....	11
3	MODULATION CHARACTERISTICS.....	16
	3.1 TEST MODE = LTE /TM1 20MHZ.....	16
	3.1.1 TEST CHANNEL = MCH.....	16
	3.2 TEST MODE = LTE /TM2 20MHZ.....	17
	3.2.1 TEST CHANNEL = MCH.....	17
	3.3 TEST MODE = LTE /TM3 20MHZ.....	18
	3.3.1 TEST CHANNEL = MCH.....	18
4	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	19
	4.1 TEST RESULT.....	19
	4.2 TEST PLOTS.....	20
5	BAND EDGE COMPLIANCE.....	39
	5.1 TEST PLOTS.....	39
6	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	64
	6.1 TEST PLOTS.....	64
7	FIELD STRENGTH OF SPURIOUS RADIATION.....	74
	7.1 Test Band = LTE_38_TM1.....	74
	7.1.1 Test Channel = Low Channel.....	74
	7.2 Test Band = LTE_38_TM1.....	75
	7.2.1 Test Channel = Low Channel.....	75
	7.3 Test Band = LTE_38_TM1.....	76
	7.3.1 Test Channel = Middle Channel.....	76
	7.4 Test Band = LTE_38_TM1.....	77
	7.4.1 Test Channel = Middle Channel.....	77
	7.5 Test Band = LTE_38_TM1.....	78
	7.5.1 Test Channel = High Channel.....	78



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



7.6 Test Band = LTE_38_TM1.....79

7.6.1 Test Channel = High Channel.....79

7.7 Test Band = LTE_38_TM1.....80

7.7.1 Test Channel = Low Channel.....80

7.8 Test Band = LTE_38_TM1.....81

7.8.1 Test Channel = Low Channel.....81

8 FREQUENCY STABILITY.....82

8.1 FREQUENCY VS VOLTAGE.....82

8.2 FREQUENCY VS TEMPERATURE.....83



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



1 Effective (Isotropic) Radiated Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.31	23.94	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.12	23.75	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.12	23.75	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.36	22.99	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.40	23.03	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.38	23.01	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.39	23.02	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.20	23.83	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.28	23.91	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.23	23.86	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.33	22.96	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.39	23.02	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.32	22.95	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.29	22.92	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.98	23.61	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.88	23.51	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.68	23.31	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.10	22.73	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.03	22.66	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.93	22.56	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.06	22.69	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.14	22.77	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.16	22.79	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.17	22.80	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.36	21.99	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.38	22.01	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.44	22.07	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.64	22.27	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.07	22.70	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.22	22.85	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.20	22.83	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.35	21.98	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) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band38	5MHz	16QAM	38000	12RB#6	21.37	22.00	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.24	21.87	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.44	22.07	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.83	22.46	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.53	22.16	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.66	22.29	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.02	21.65	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.08	21.71	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.98	21.61	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.17	21.80	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.29	21.92	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.03	21.66	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.05	21.68	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.31	20.94	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#6	20.35	20.98	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.34	20.97	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.39	21.02	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.13	21.76	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.25	21.88	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.14	21.77	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#0	20.24	20.87	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#6	20.39	21.02	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.23	20.86	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.29	20.92	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.95	21.58	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	20.78	21.41	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.58	21.21	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#0	20.00	20.63	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#6	20.02	20.65	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#13	19.90	20.53	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	19.98	20.61	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.33	23.96	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.39	24.02	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.31	23.94	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.39	23.02	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.50	23.13	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.44	23.07	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.40	23.03	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) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band38	10MHz	QPSK	38000	1RB#0	22.95	23.58	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.49	24.12	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.38	24.01	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.31	22.94	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.46	23.09	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.42	23.05	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.42	23.05	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.06	23.69	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.03	23.66	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.91	23.54	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.19	22.82	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.01	22.64	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.96	22.59	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.99	22.62	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.29	22.92	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.28	22.91	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.30	22.93	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.70	22.33	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.68	22.31	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.74	22.37	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.50	22.13	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.18	22.81	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.22	22.85	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.14	22.77	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.37	22.00	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.41	22.04	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.32	21.95	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.42	22.05	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.04	22.67	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.96	22.59	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.52	22.15	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.04	21.67	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.05	21.68	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.00	21.63	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.04	21.67	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.31	21.94	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.38	22.01	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.23	21.86	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) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band38	10MHz	64QAM	37800	25RB#0	20.39	21.02	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	20.44	21.07	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	20.37	21.00	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.38	21.01	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.89	21.52	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.46	22.09	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.33	21.96	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	20.30	20.93	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	20.36	20.99	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	20.37	21.00	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.42	21.05	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.98	21.61	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.98	21.61	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.82	21.45	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	20.14	20.77	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	20.00	20.63	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.94	20.57	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.93	20.56	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.35	23.98	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.31	23.94	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.49	24.12	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#0	22.44	23.07	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#18	22.51	23.14	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#37	22.64	23.27	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.53	23.16	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.20	23.83	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.45	24.08	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.43	24.06	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#0	22.45	23.08	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#18	22.51	23.14	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#37	22.50	23.13	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.45	23.08	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.17	23.80	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.97	23.60	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.84	23.47	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#0	22.35	22.98	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#18	22.22	22.85	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#37	22.03	22.66	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-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



Band38	15MHz	QPSK	38175	75RB#0	22.25	22.88	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.28	22.91	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.00	22.63	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.40	23.03	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.54	22.17	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.50	22.13	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.56	22.19	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.52	22.15	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.44	23.07	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.29	22.92	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.05	22.68	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.32	21.95	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.41	22.04	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.38	22.01	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.45	22.08	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.24	22.87	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.90	22.53	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.57	22.20	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.29	21.92	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.19	21.82	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.01	21.64	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.25	21.88	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.32	21.95	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.29	21.92	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.47	22.10	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#0	20.37	21.00	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#18	20.44	21.07	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#37	20.56	21.19	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.45	21.08	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.12	21.75	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.35	21.98	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.34	21.97	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#0	20.42	21.05	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#18	20.45	21.08	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#37	20.48	21.11	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.42	21.05	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.14	21.77	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.94	21.57	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) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band38	15MHz	64QAM	38175	1RB#74	20.77	21.40	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#0	20.34	20.97	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#18	20.13	20.76	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#37	19.99	20.62	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.19	20.82	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.62	24.25	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.64	24.27	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.67	24.30	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.71	23.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.94	23.57	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.87	23.50	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.78	23.41	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.65	24.28	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.81	24.44	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.74	24.37	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.75	23.38	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.79	23.42	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.74	23.37	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.71	23.34	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.55	24.18	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.58	24.21	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.95	23.58	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.74	23.37	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.58	23.21	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.42	23.05	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.53	23.16	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.58	23.21	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.56	23.19	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.15	22.78	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.77	22.40	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.87	22.50	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.92	22.55	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.80	22.43	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.49	23.12	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.62	23.25	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.53	23.16	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.62	22.25	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.64	22.27	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) 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



Band38	20MHz	16QAM	38000	50RB#50	21.75	22.38	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.77	22.40	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.21	22.84	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.09	22.72	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.36	21.99	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.63	22.26	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.46	22.09	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.27	21.90	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.53	22.16	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.55	22.18	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.62	22.25	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.64	22.27	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#0	20.70	21.33	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.90	21.53	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.86	21.49	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.74	21.37	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.56	22.19	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.75	22.38	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.71	22.34	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	20.75	21.38	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	20.79	21.42	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	20.71	21.34	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.63	21.26	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.47	22.10	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.54	22.17	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.93	21.56	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	20.64	21.27	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	20.55	21.18	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	20.42	21.05	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.45	21.08	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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
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

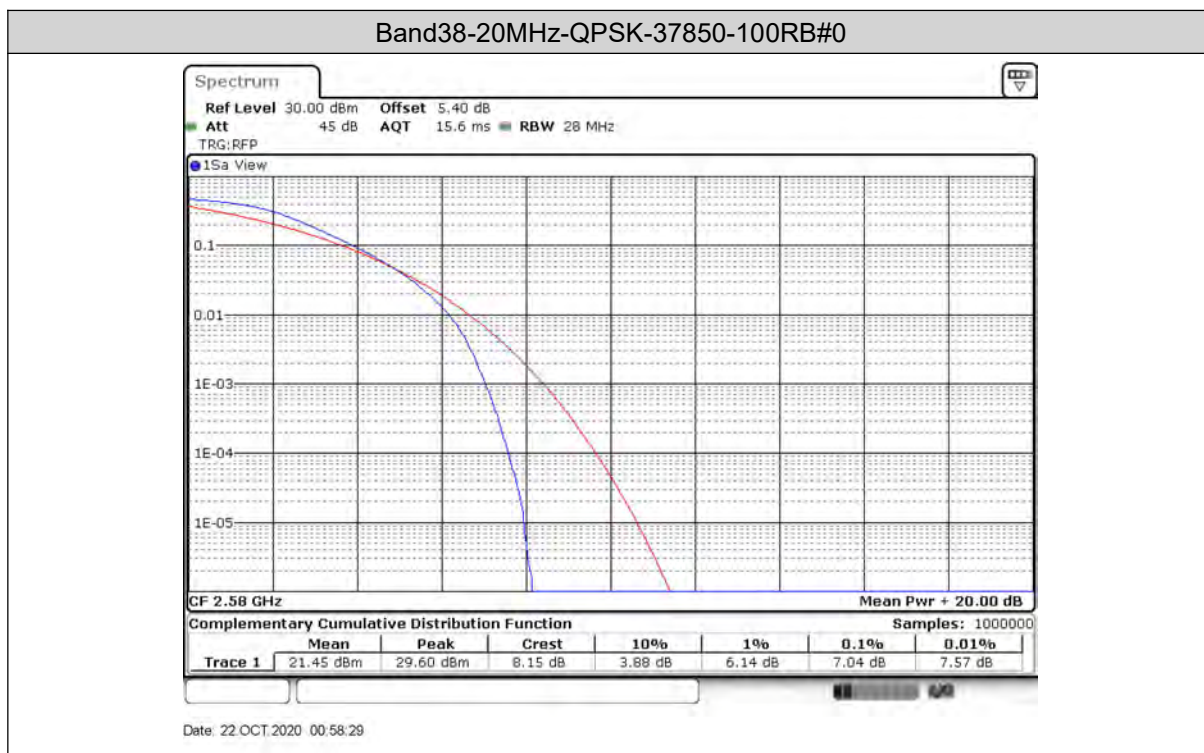


2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.04	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.04	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	6.96	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	7.91	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.91	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.83	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.41	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.41	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.38	13	PASS

2.2 Test Plots

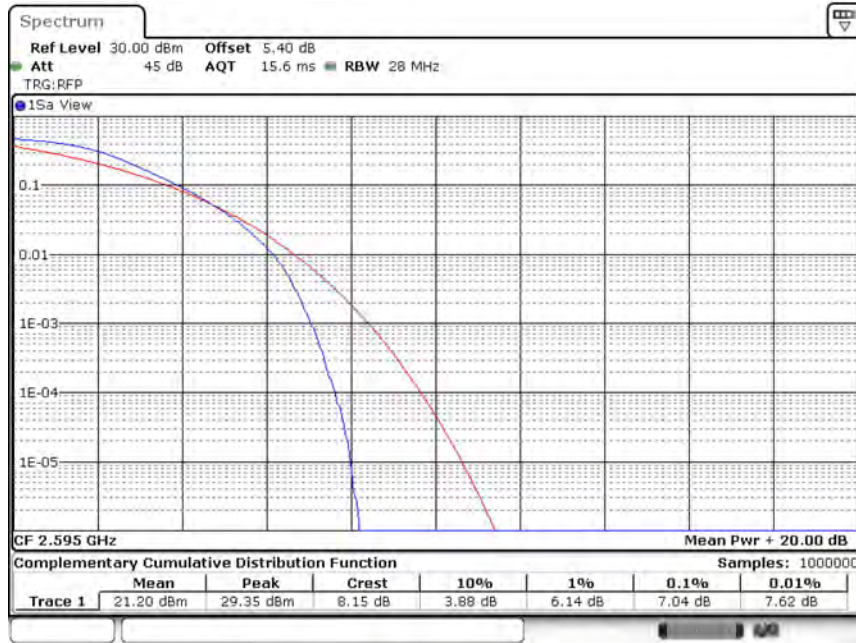


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

Band38-20MHz-QPSK-38000-100RB#0



Date: 22.OCT.2020 00:58:58

Band38-20MHz-QPSK-38150-100RB#0



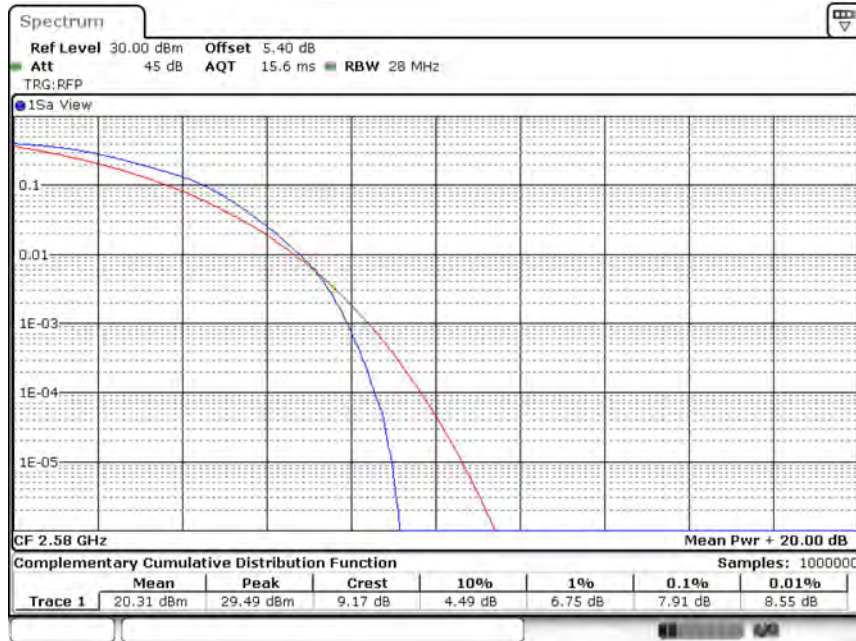
Date: 22.OCT.2020 00:59:27



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.

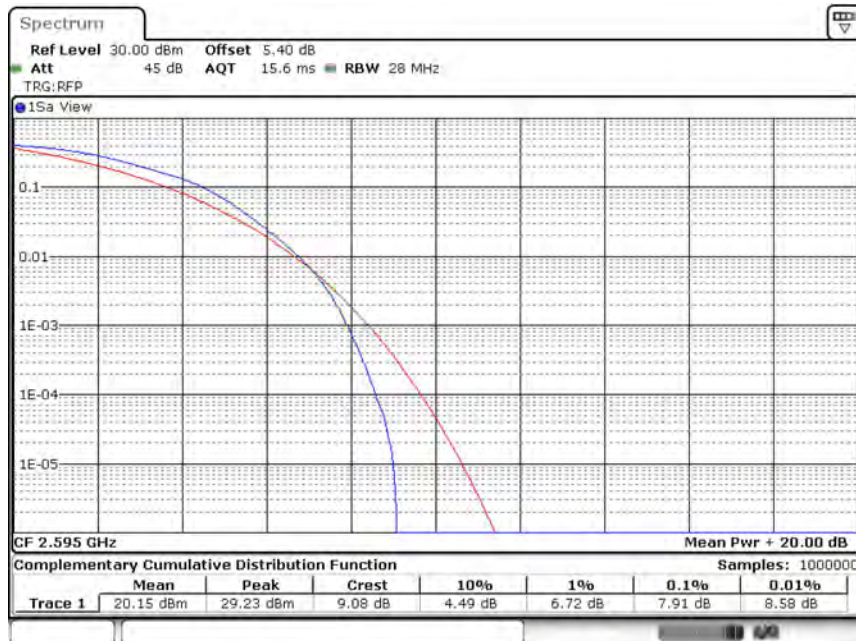
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band38-20MHz-16QAM-37850-100RB#0



Date: 22.OCT.2020 00:58:43

Band38-20MHz-16QAM-38000-100RB#0



Date: 22.OCT.2020 00:59:12



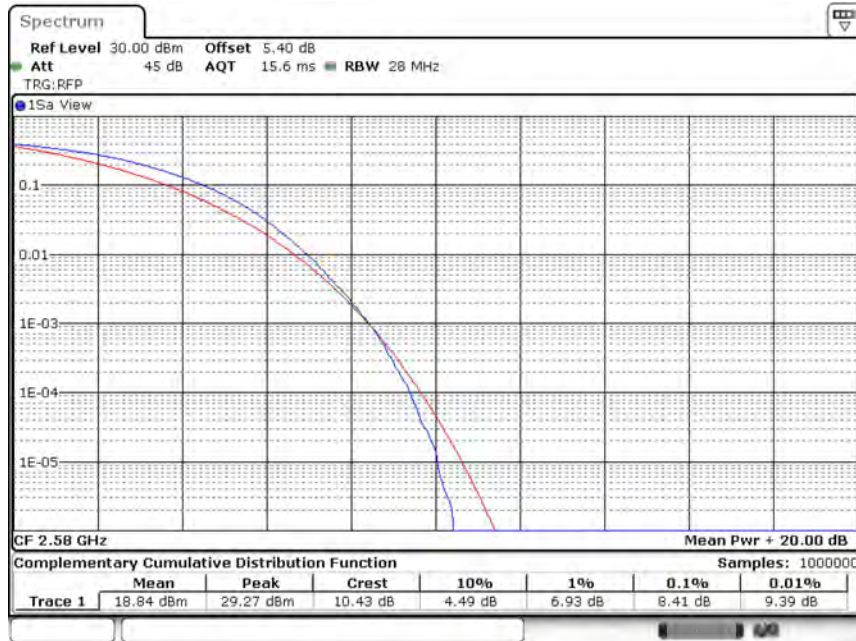
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-16QAM-38150-100RB#0



Date: 22.OCT.2020 00:59:41

Band38-20MHz-64QAM-37850-100RB#0



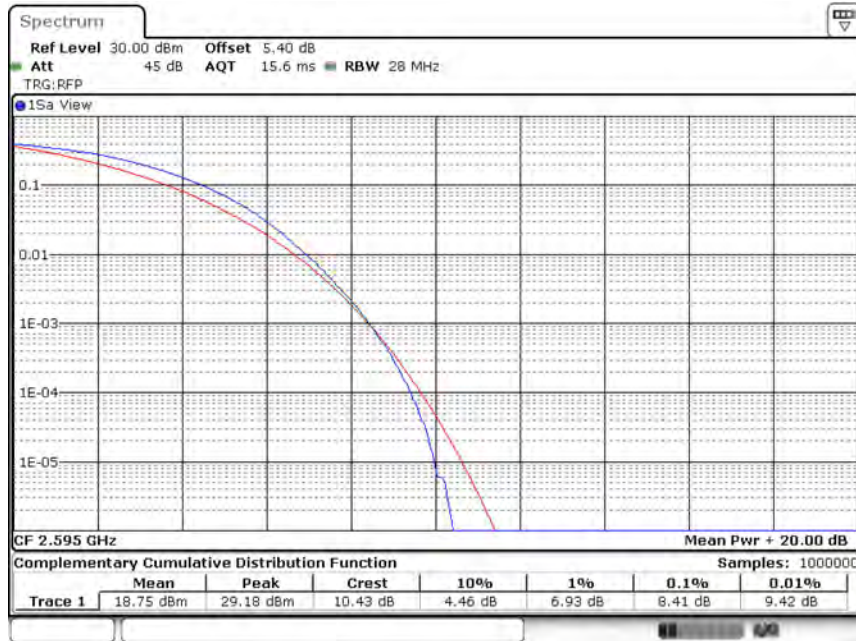
Date: 22.OCT.2020 11:57:38



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.

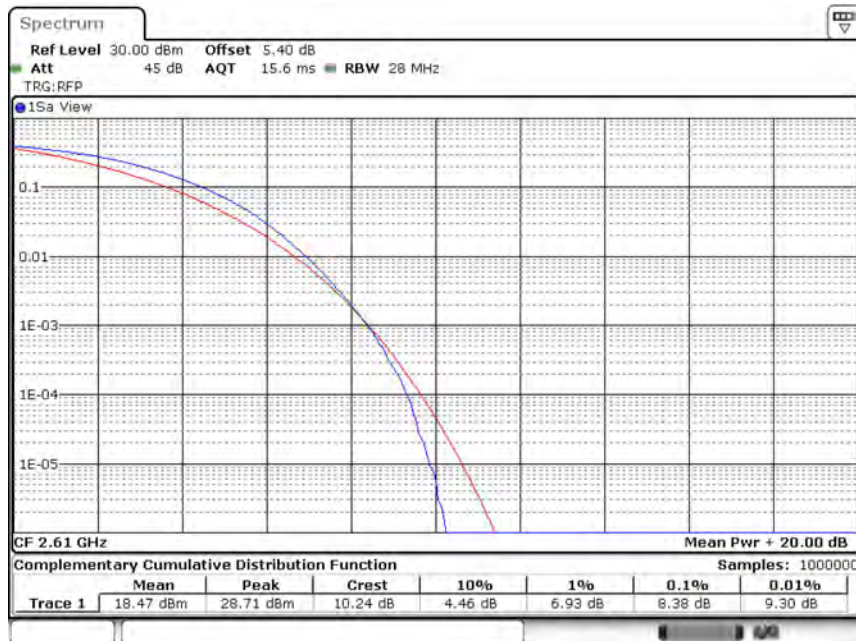
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band38-20MHz-64QAM-38000-100RB#0



Date: 22.OCT.2020 11:57:52

Band38-20MHz-64QAM-38150-100RB#0



Date: 22.OCT.2020 11:58:07



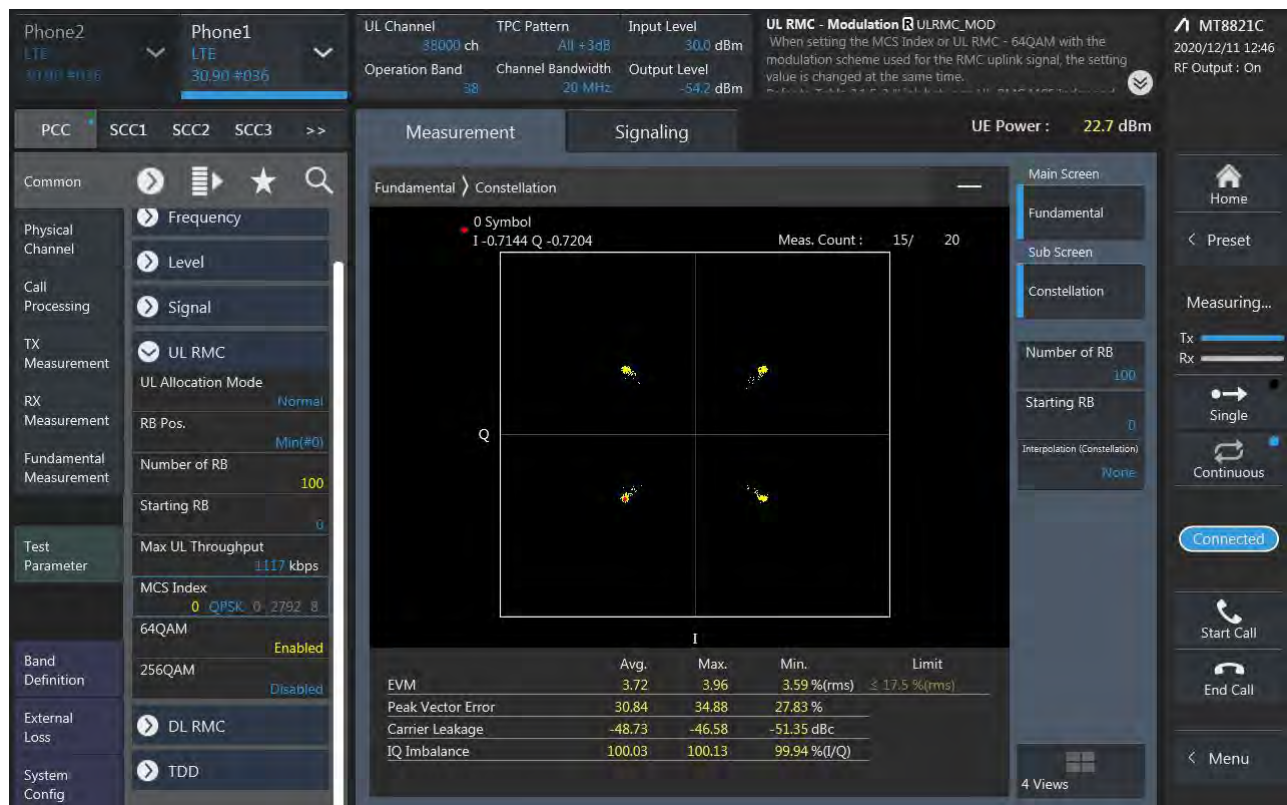
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.



3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

3.1.1 Test Channel = MCH



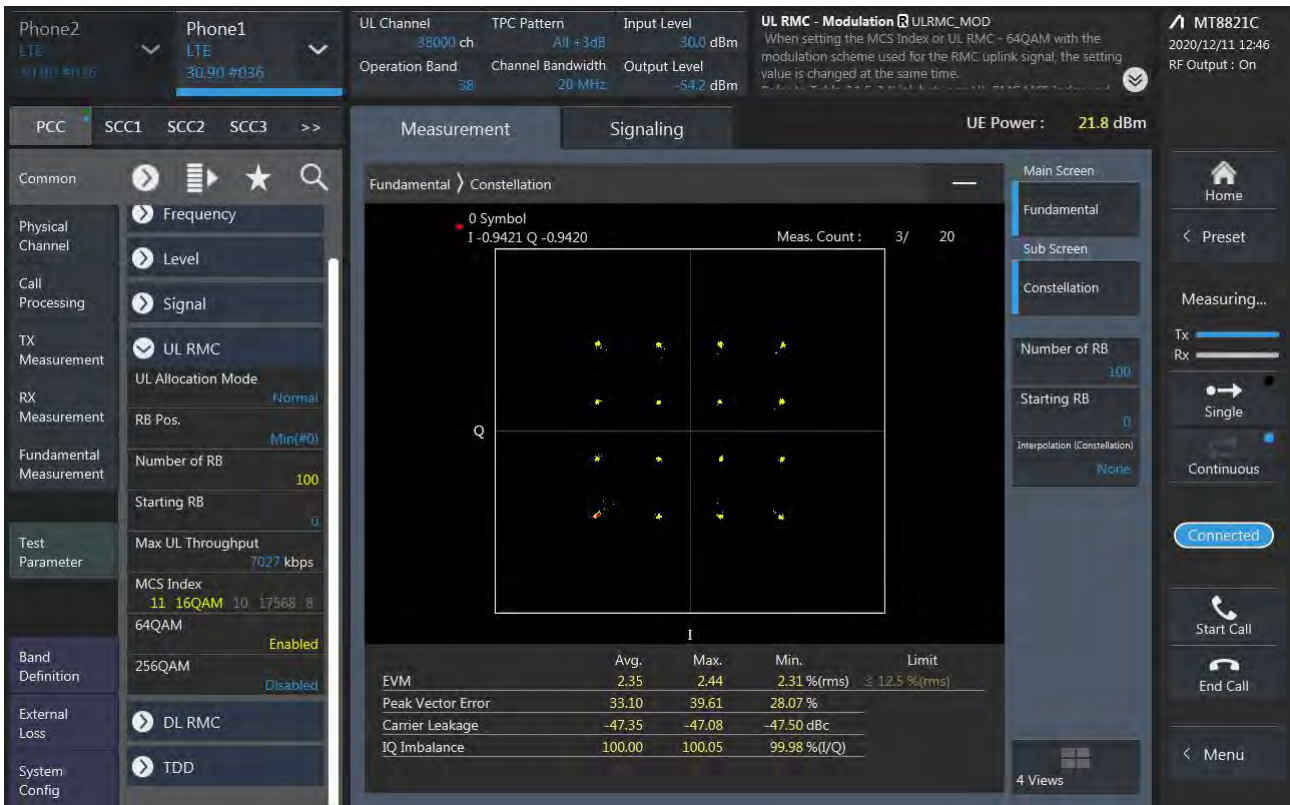
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

3.2 Test Mode = LTE /TM2 20MHz

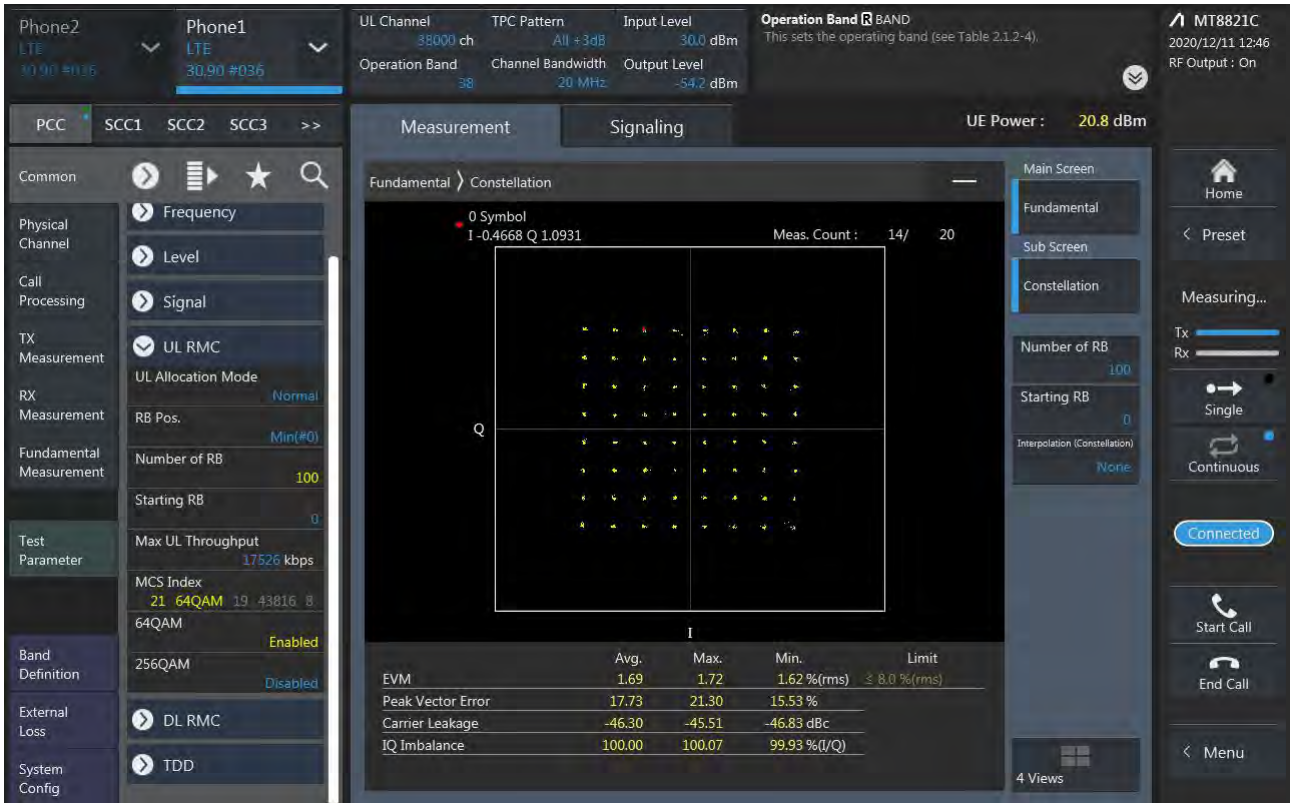
3.2.1 Test Channel = MCH





3.3 Test Mode = LTE /TM3 20MHz

3.3.1 Test Channel = MCH



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, Inspection & Testing Services 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



4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.476	4.920	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.466	4.900	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.980	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.960	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.970	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.486	4.940	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	4.910	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.110	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.891	9.740	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.891	9.720	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	10.160	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.620	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.931	9.620	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.680	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.740	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.911	9.740	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.911	9.760	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	15.570	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	15.630	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.546	22.380	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.390	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.420	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.546	22.260	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	15.270	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	15.210	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.487	23.850	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	20.000	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	19.600	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.840	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.862	19.320	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.

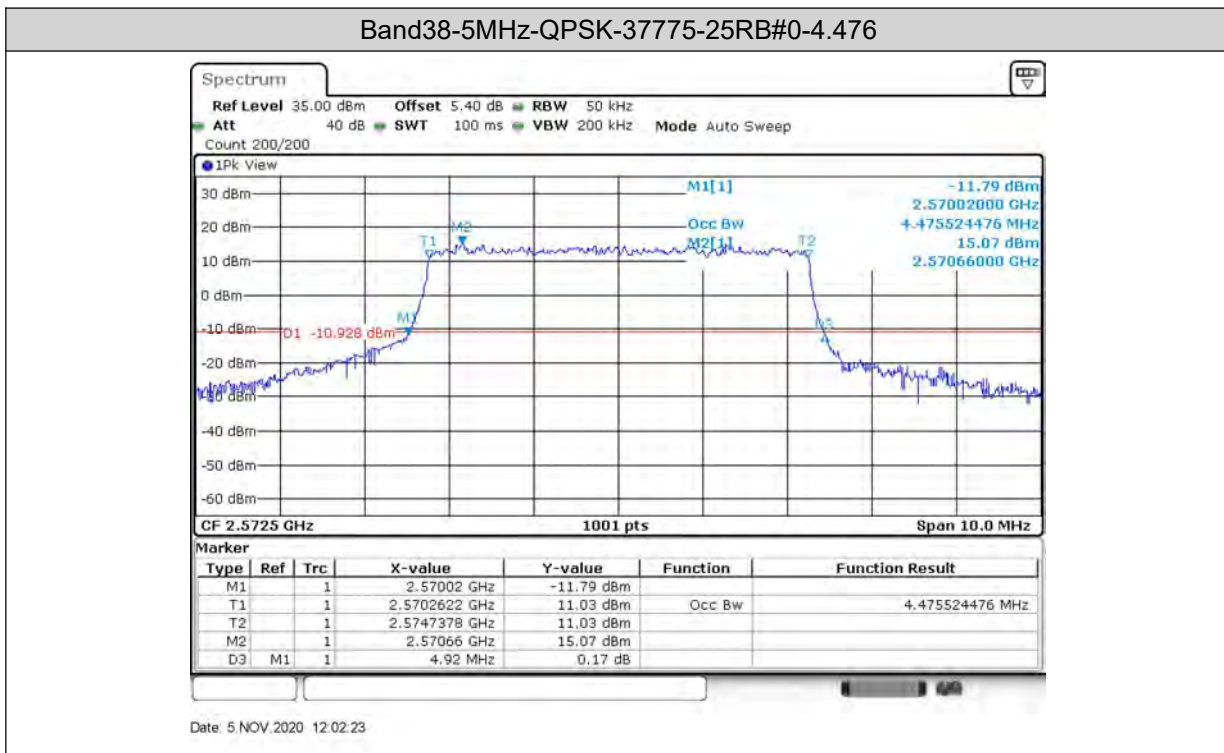
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

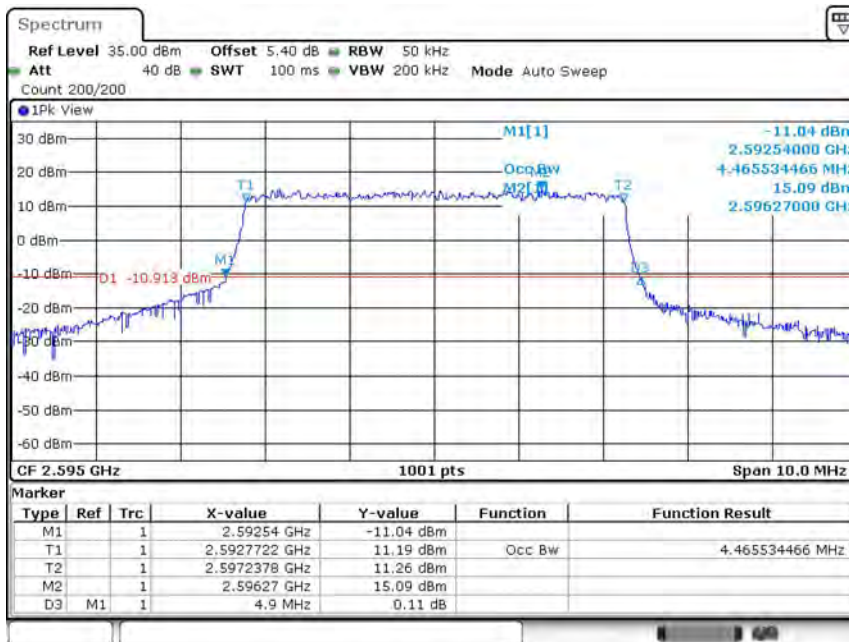
Band38	20MHz	16QAM	38000	100RB#0	17.902	19.320	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.400	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.902	19.320	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.862	19.360	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.862	19.360	PASS

4.2 Test Plots



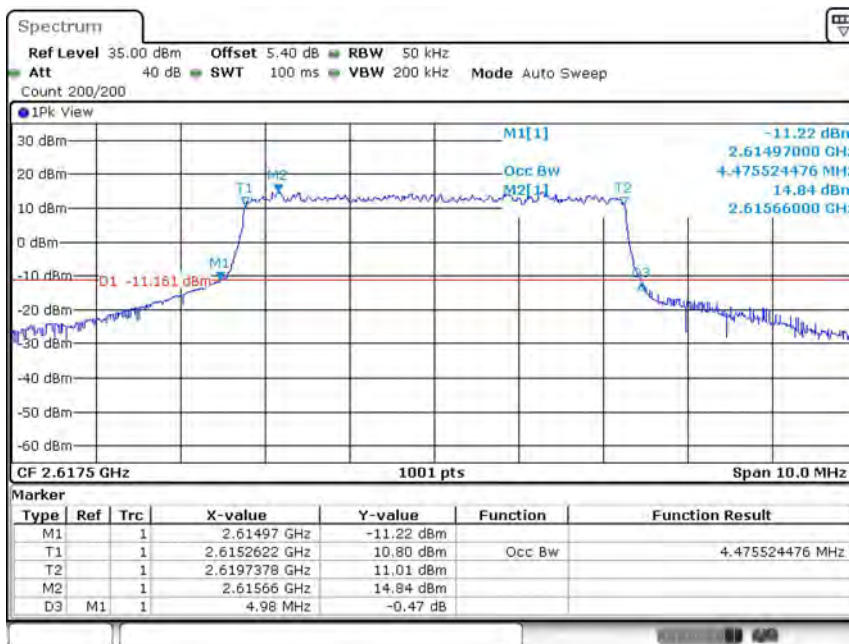
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-5MHz-QPSK-38000-25RB#0-4.466



Date: 5 NOV.2020 12:03:33

Band38-5MHz-QPSK-38225-25RB#0-4.476

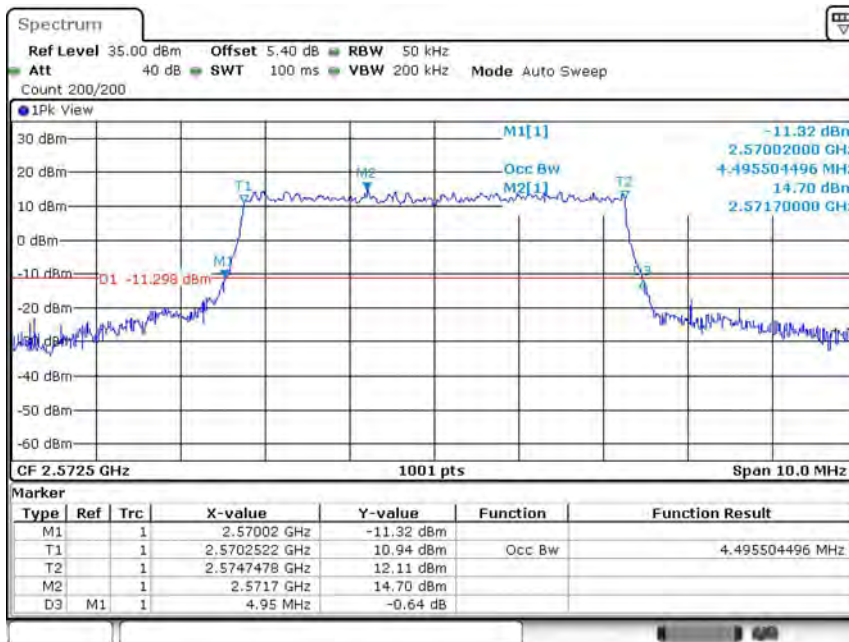


Date: 5 NOV.2020 12:04:44



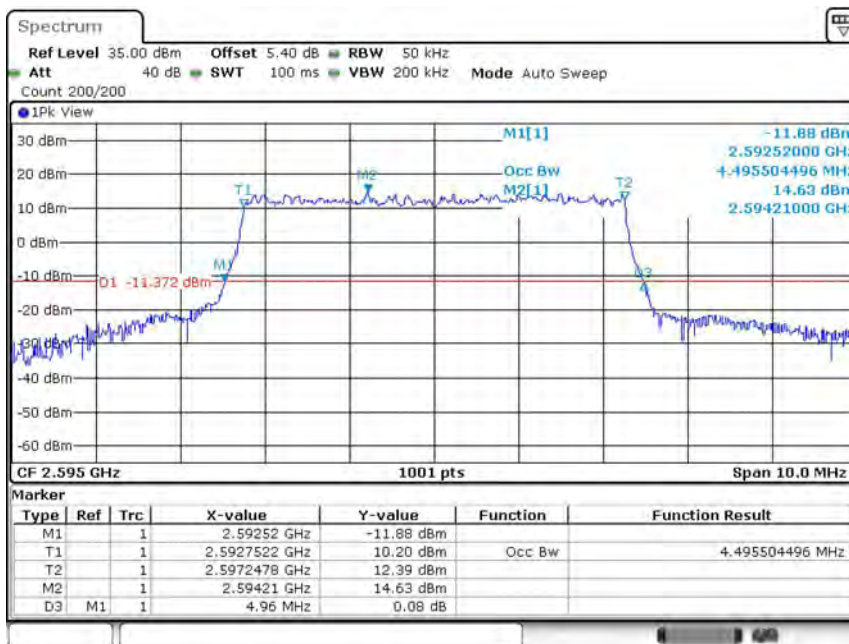
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-5MHz-16QAM-37775-25RB#0-4.496



Date: 5 NOV.2020 12:02:58

Band38-5MHz-16QAM-38000-25RB#0-4.496

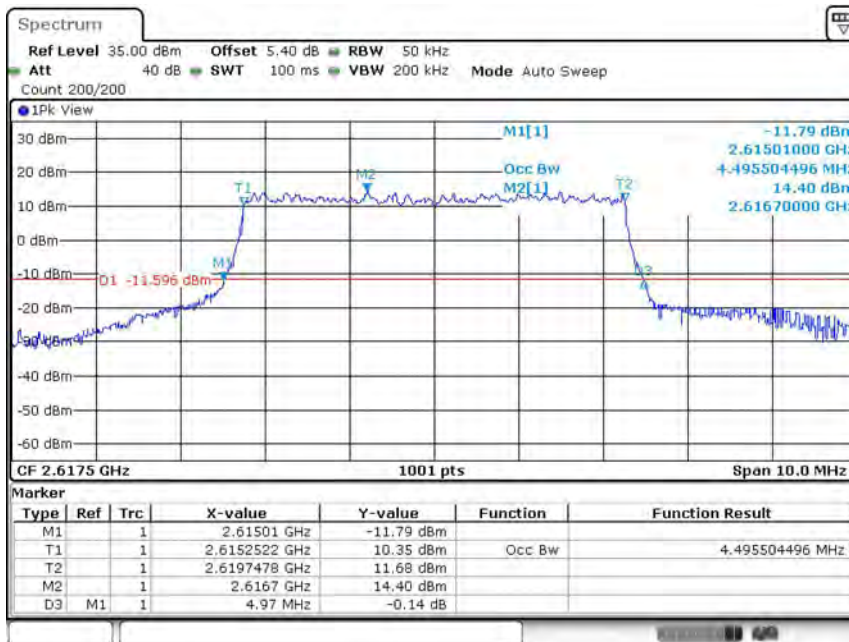


Date: 5 NOV.2020 12:04:08



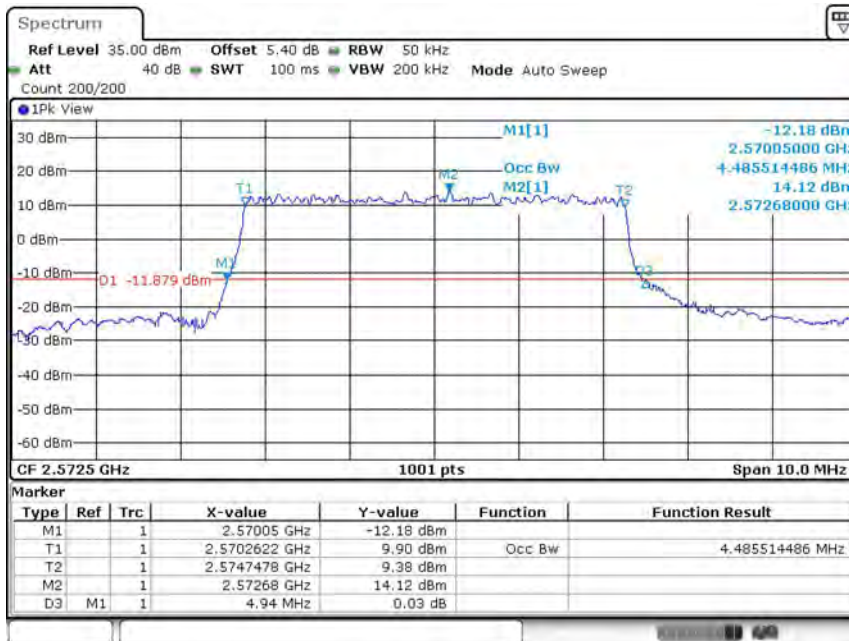
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-5MHz-16QAM-38225-25RB#0-4.496



Date: 5 NOV.2020 12:05:19

Band38-5MHz-64QAM-37775-25RB#0-4.486

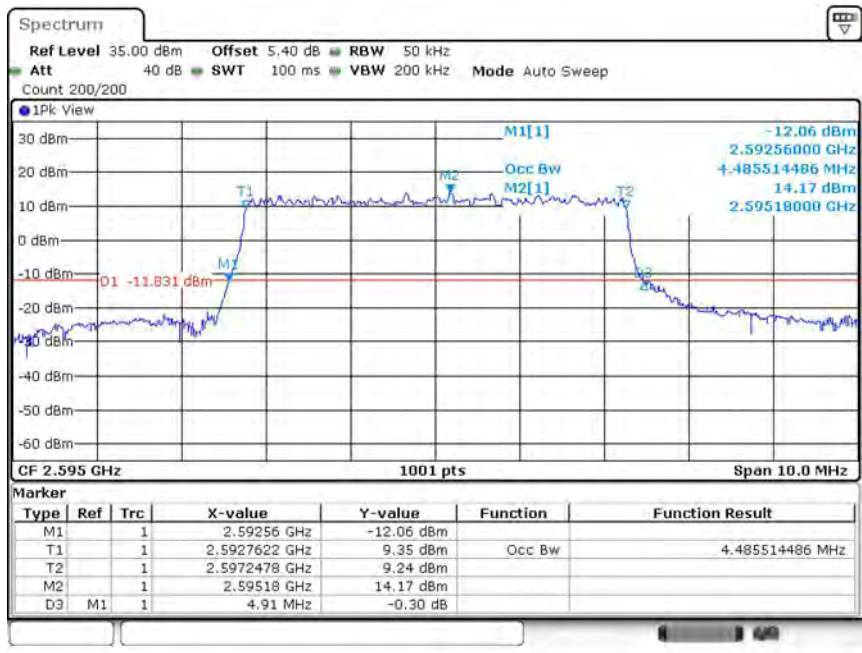


Date: 5 NOV.2020 13:55:07



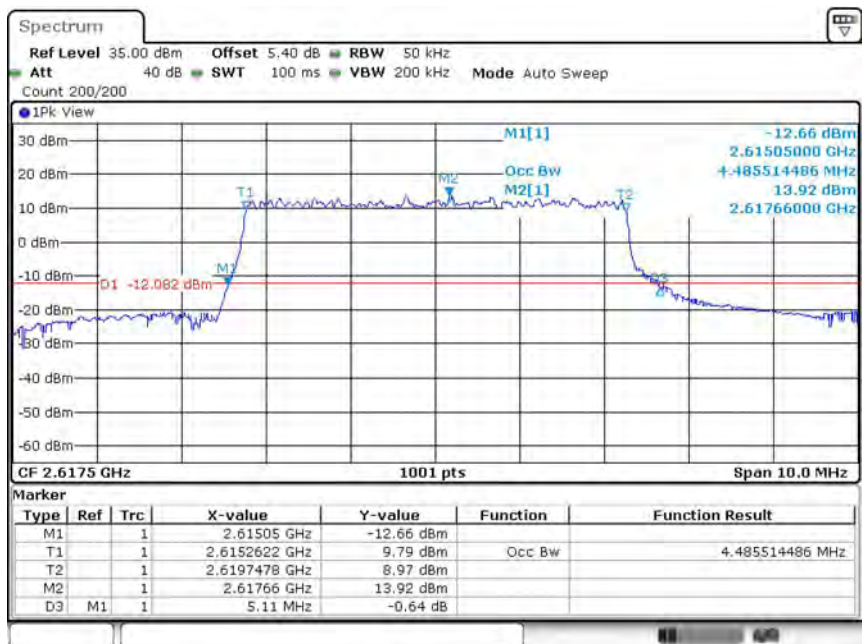
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-5MHz-64QAM-38000-25RB#0-4.486



Date: 5 NOV.2020 13:55:51

Band38-5MHz-64QAM-38225-25RB#0-4.486

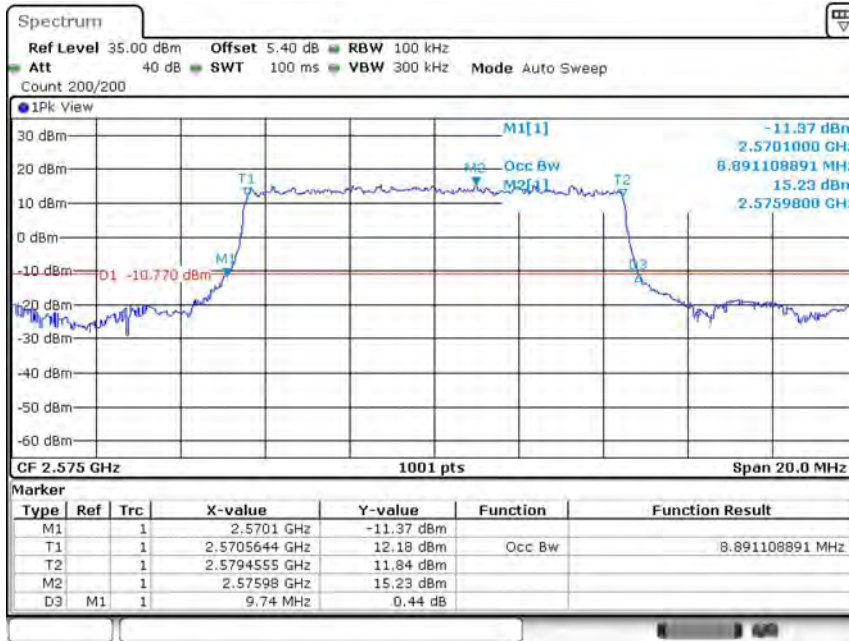


Date: 5 NOV.2020 13:56:59



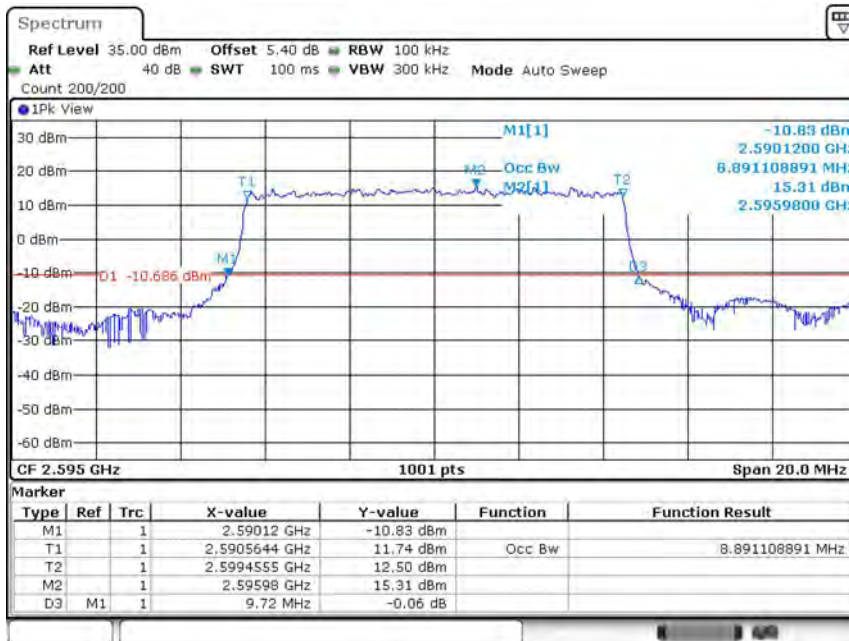
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-QPSK-37800-50RB#0-8.891



Date: 5 NOV.2020 14:13:11

Band38-10MHz-QPSK-38000-50RB#0-8.891

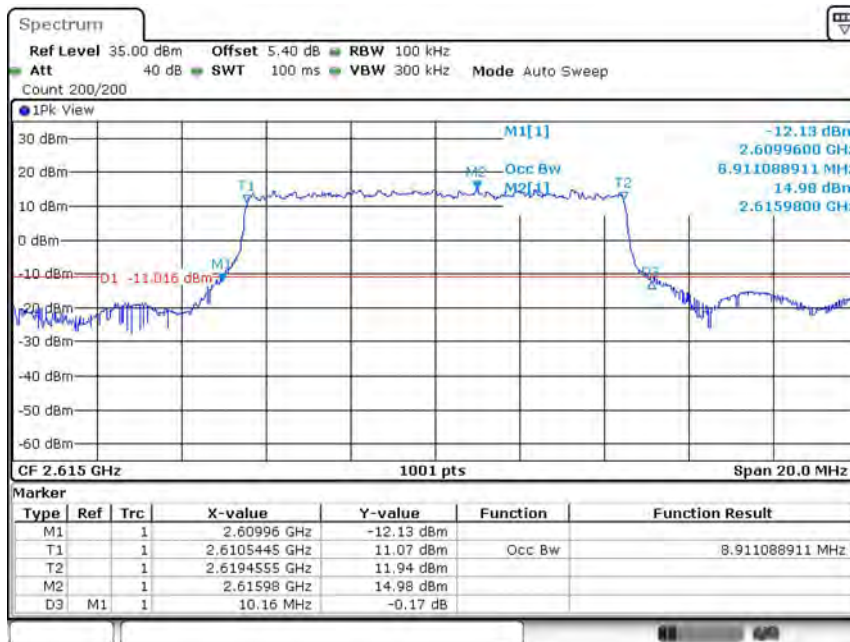


Date: 5 NOV.2020 14:15:37



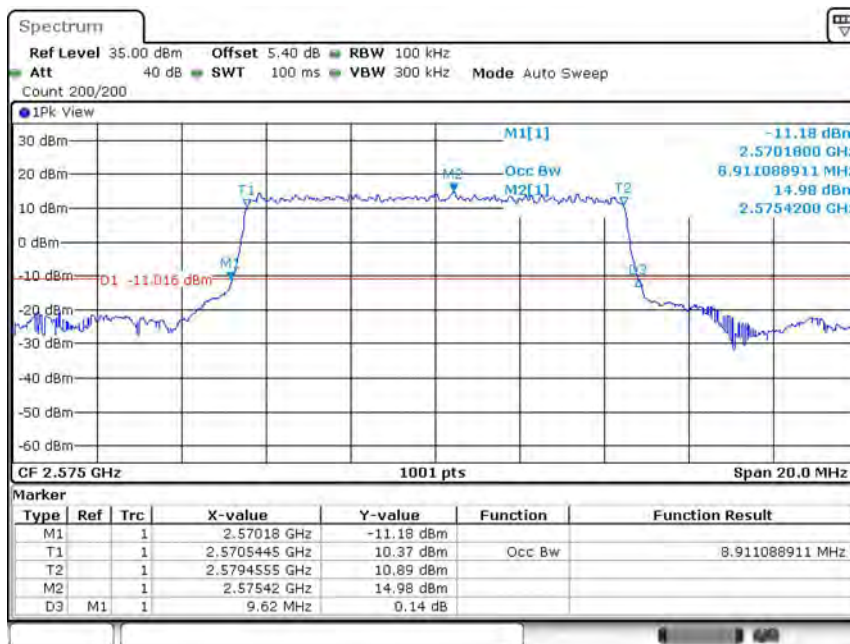
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 5 NOV.2020 14:17:48

Band38-10MHz-16QAM-37800-50RB#0-8.911

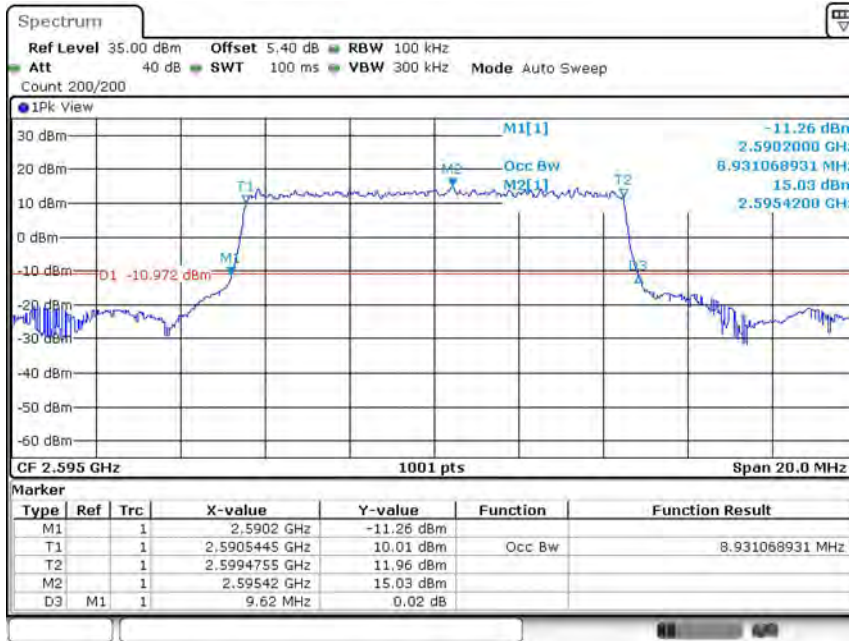


Date: 5 NOV.2020 14:14:50



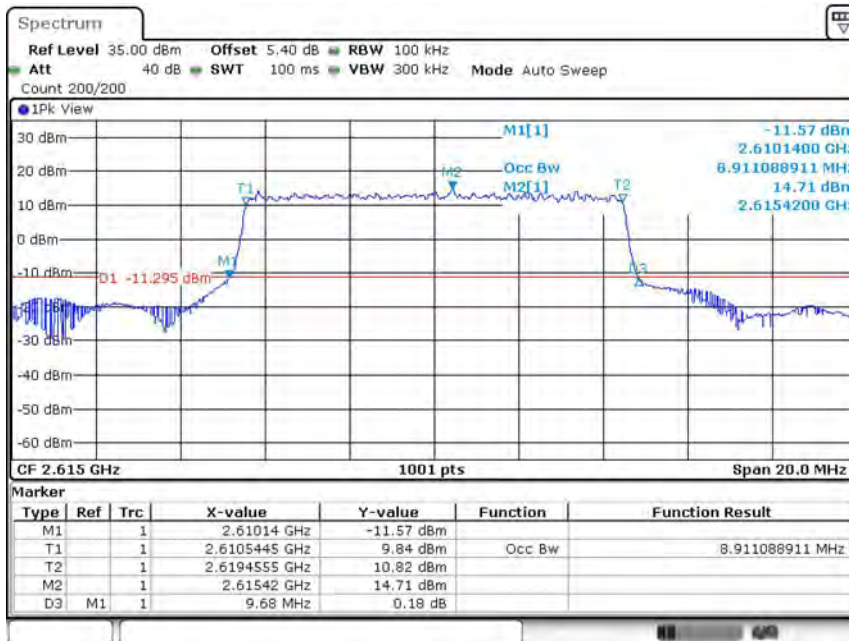
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-16QAM-38000-50RB#0-8.931



Date: 5 NOV.2020 14:16:53

Band38-10MHz-16QAM-38200-50RB#0-8.911

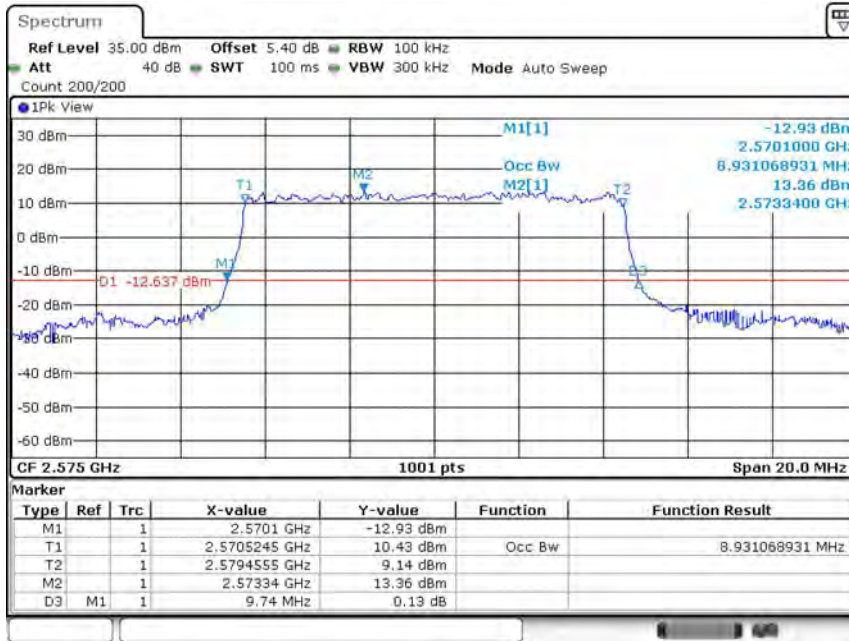


Date: 5 NOV.2020 14:18:52



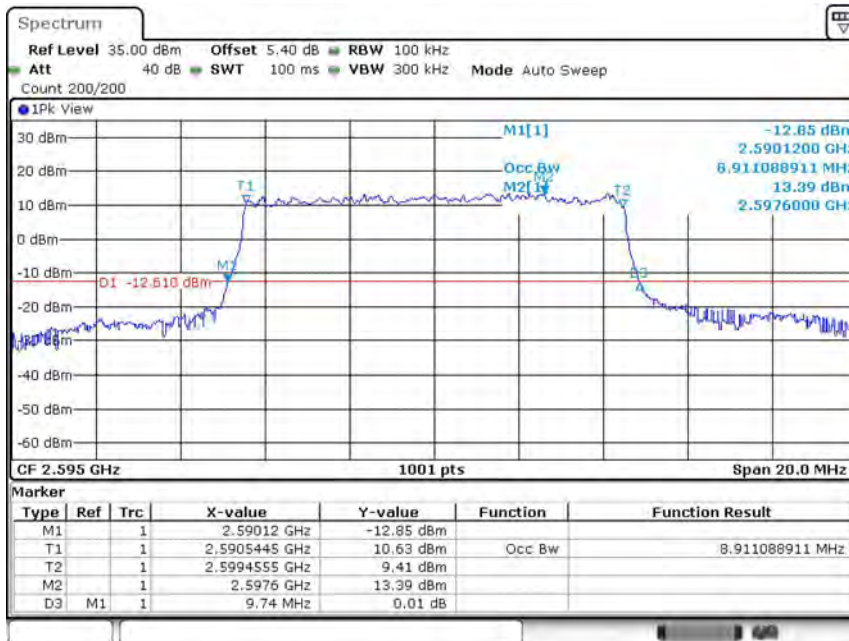
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-64QAM-37800-50RB#0-8.931



Date: 5 NOV.2020 14:00:28

Band38-10MHz-64QAM-38000-50RB#0-8.911

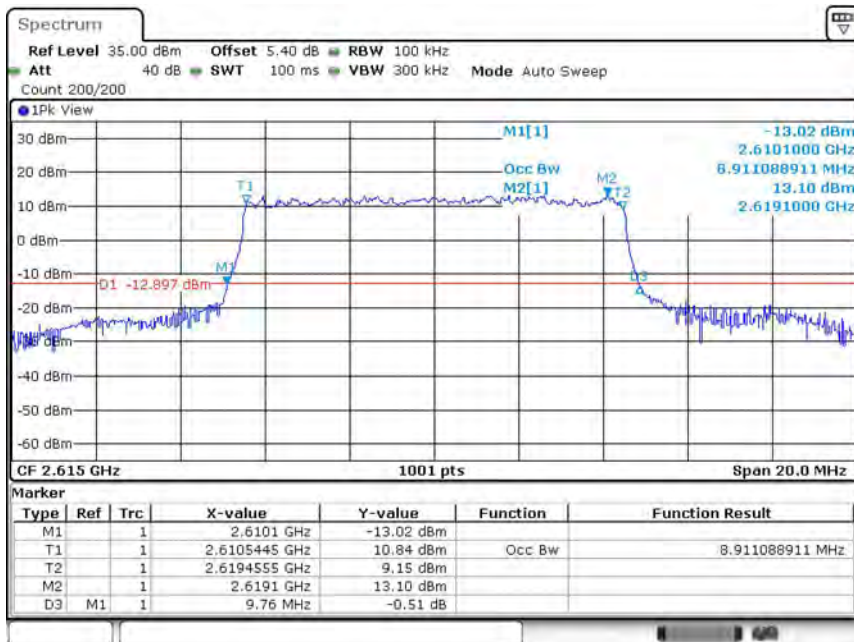


Date: 5 NOV.2020 14:01:25



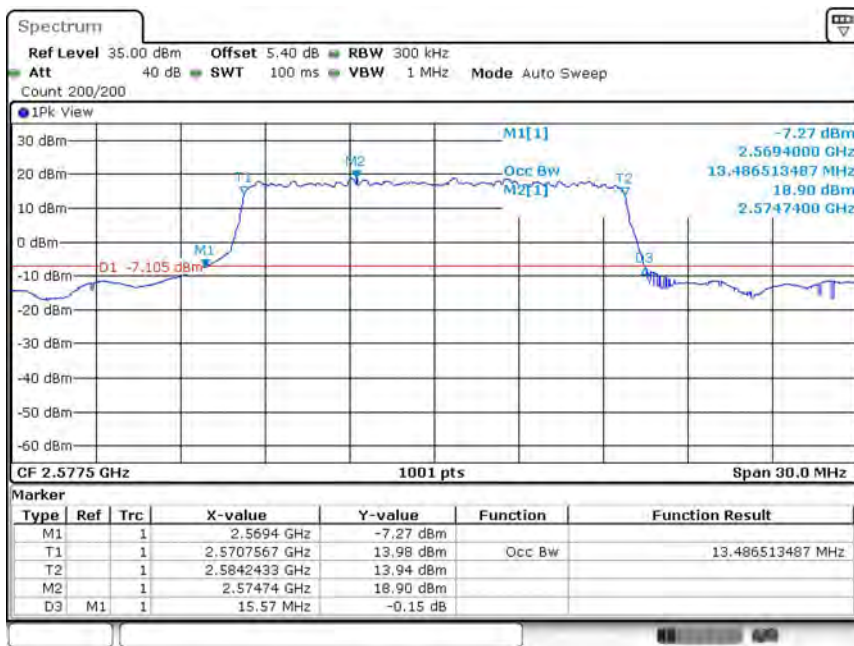
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-64QAM-38200-50RB#0-8.911



Date: 5 NOV.2020 14:02:12

Band38-15MHz-QPSK-37825-75RB#0-13.487

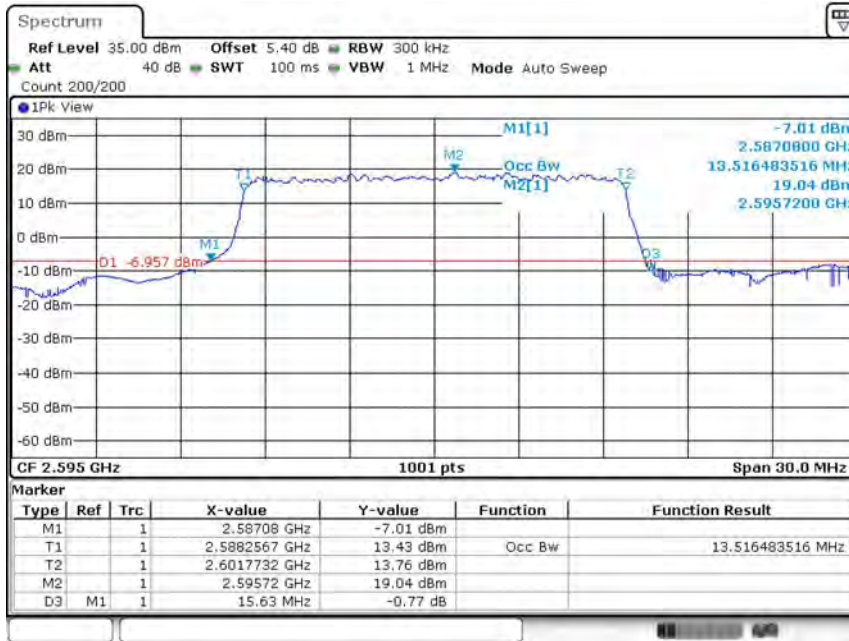


Date: 5 NOV.2020 14:22:09



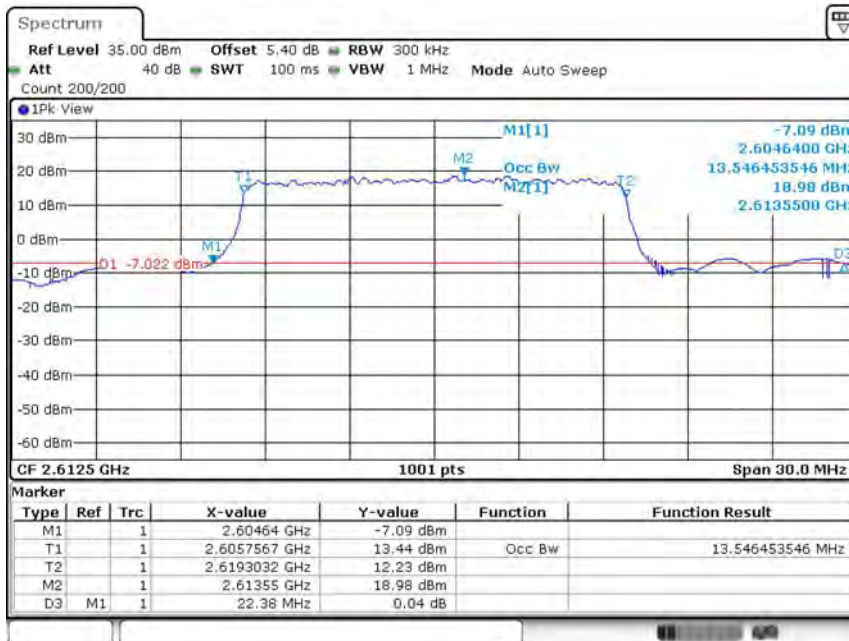
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-15MHz-QPSK-38000-75RB#0-13.516



Date: 5 NOV.2020 14:29:16

Band38-15MHz-QPSK-38175-75RB#0-13.546

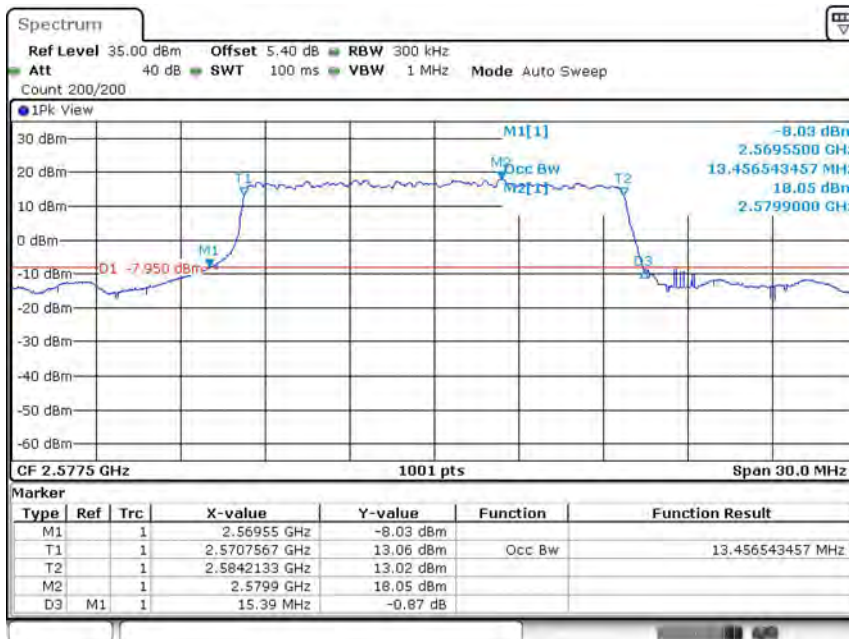


Date: 5 NOV.2020 14:32:44



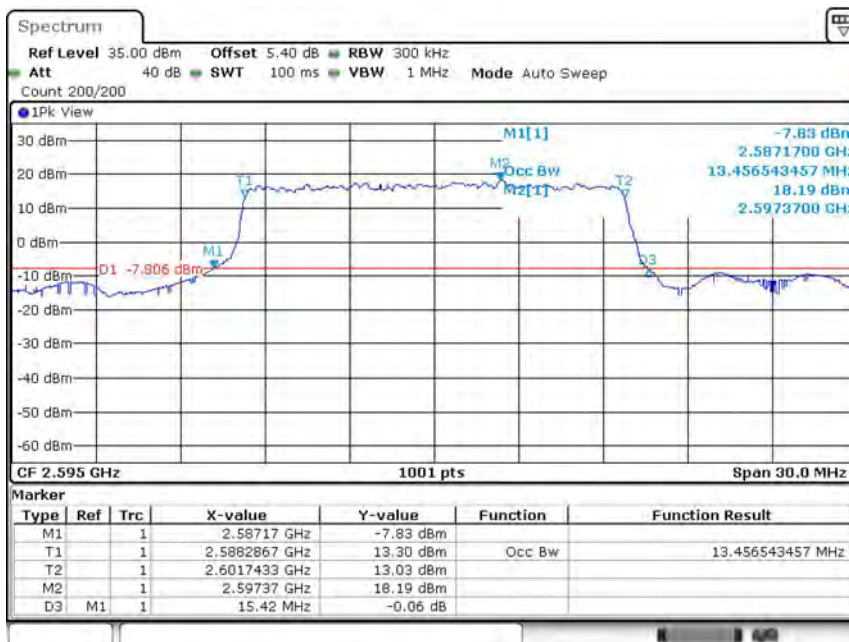
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-15MHz-16QAM-37825-75RB#0-13.457



Date: 5 NOV.2020 14:23:38

Band38-15MHz-16QAM-38000-75RB#0-13.457



Date: 5 NOV.2020 14:30:28

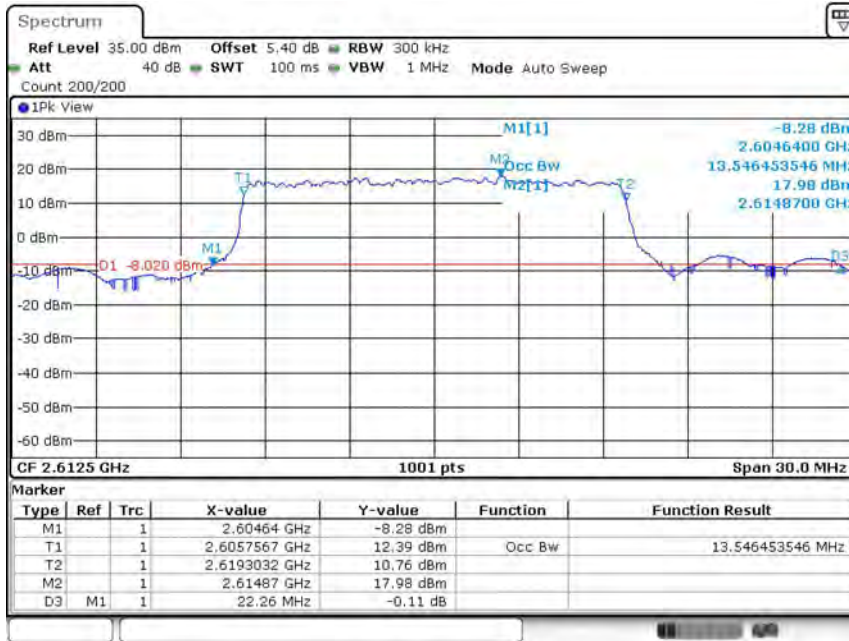


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

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

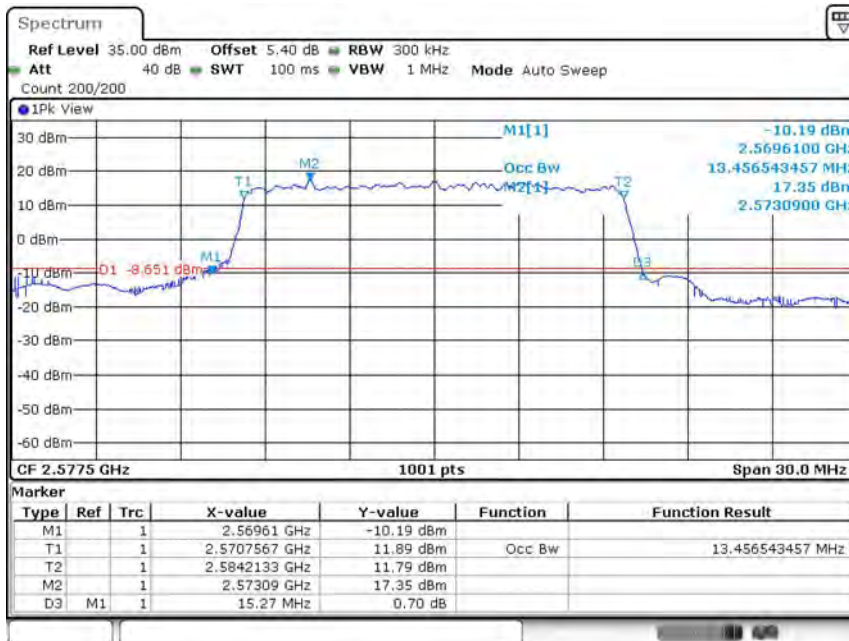
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-15MHz-16QAM-38175-75RB#0-13.546



Date: 5 NOV.2020 14:34:09

Band38-15MHz-64QAM-37825-75RB#0-13.457

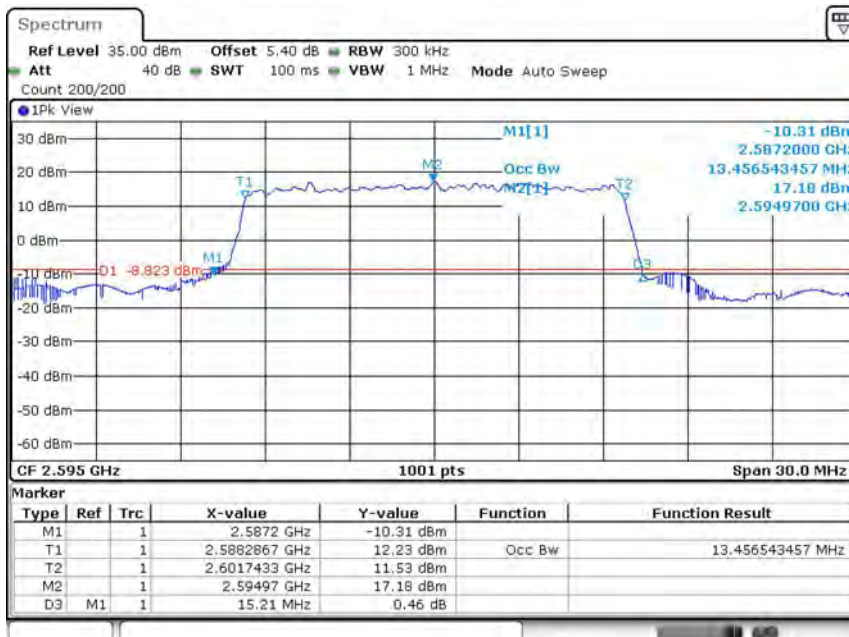


Date: 5 NOV.2020 14:05:16



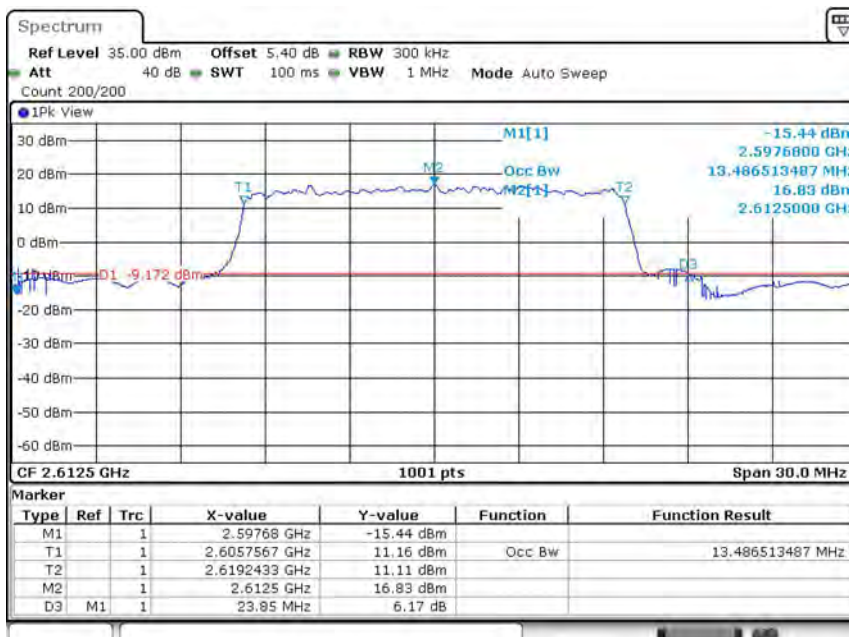
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-15MHz-64QAM-38000-75RB#0-13.457



Date: 5 NOV.2020 14:06:41

Band38-15MHz-64QAM-38175-75RB#0-13.487

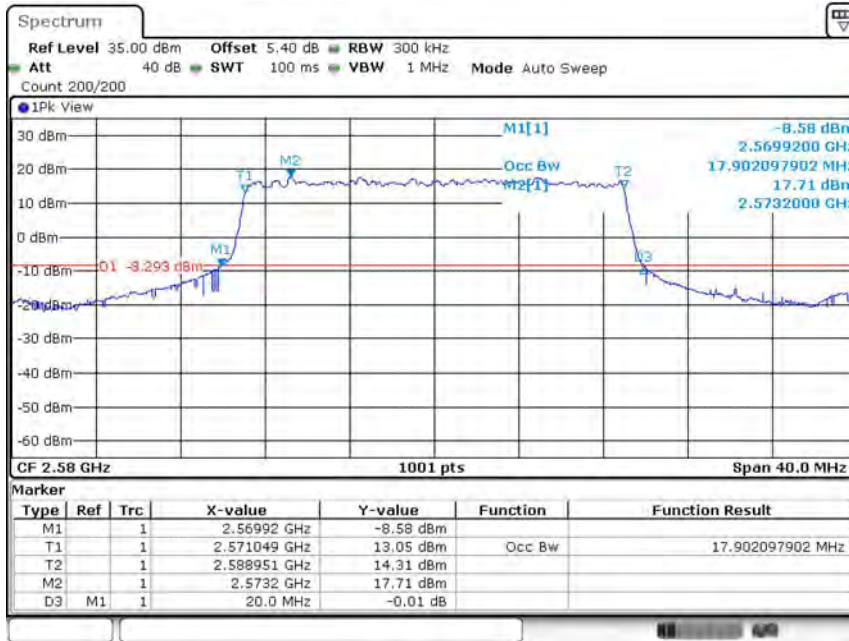


Date: 5 NOV.2020 14:08:59



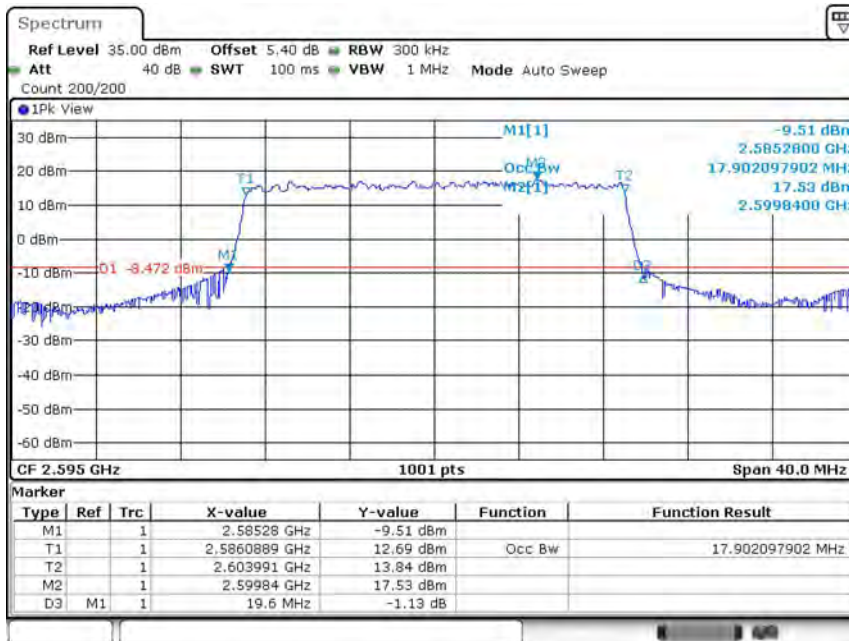
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-QPSK-37850-100RB#0-17.902



Date: 5 NOV.2020 14:35:20

Band38-20MHz-QPSK-38000-100RB#0-17.902

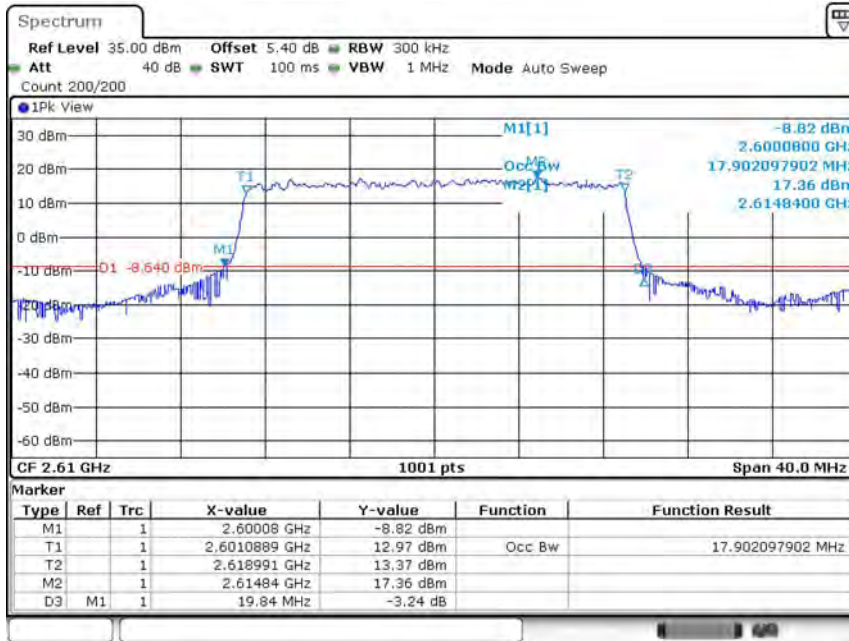


Date: 5 NOV.2020 12:14:22



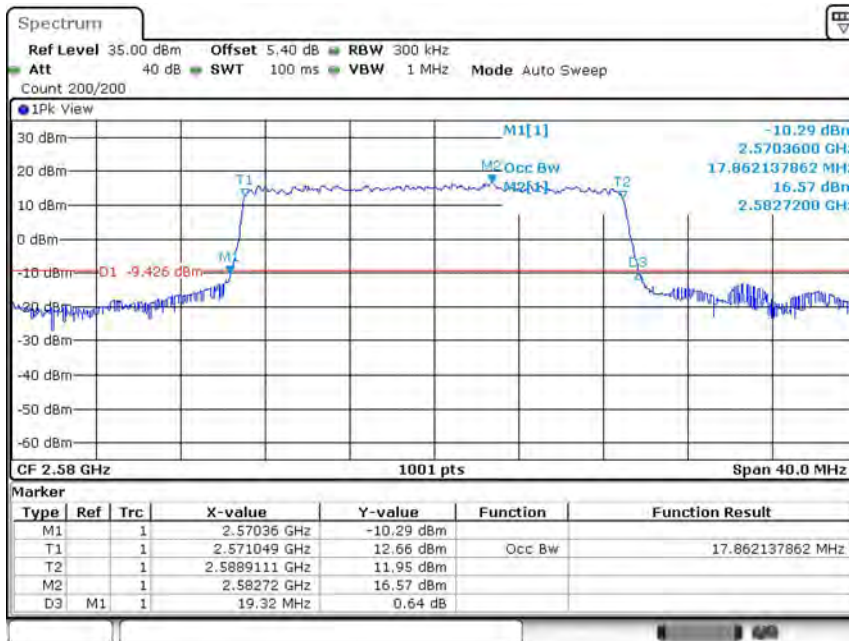
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-QPSK-38150-100RB#0-17.902



Date: 5 NOV.2020 12:15:32

Band38-20MHz-16QAM-37850-100RB#0-17.862

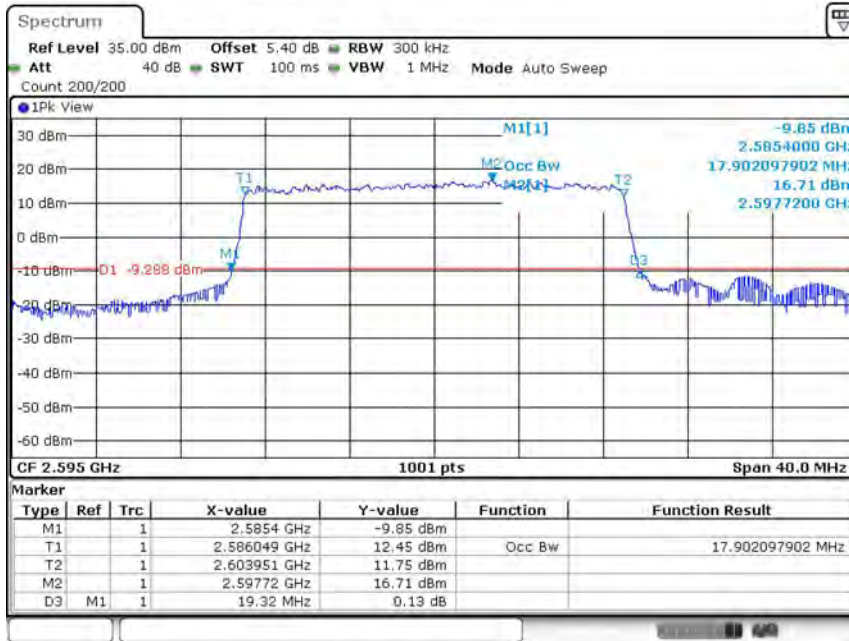


Date: 5 NOV.2020 12:13:46



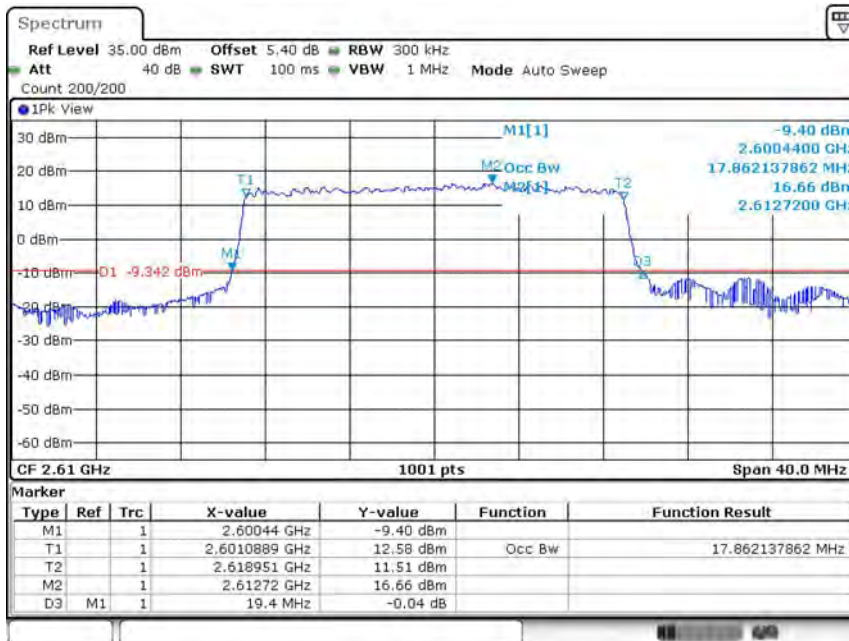
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-16QAM-38000-100RB#0-17.902



Date: 5 NOV.2020 12:14:57

Band38-20MHz-16QAM-38150-100RB#0-17.862

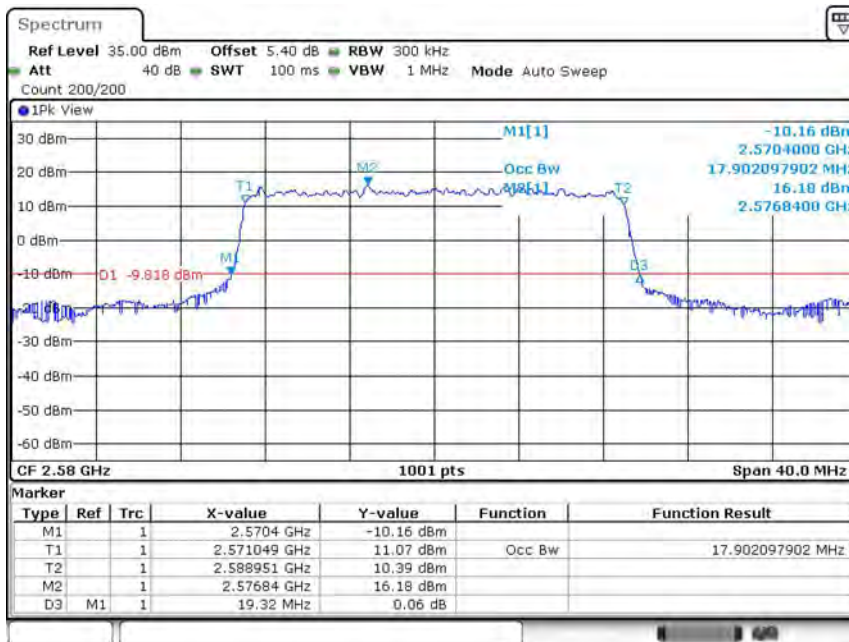


Date: 5 NOV.2020 12:16:08



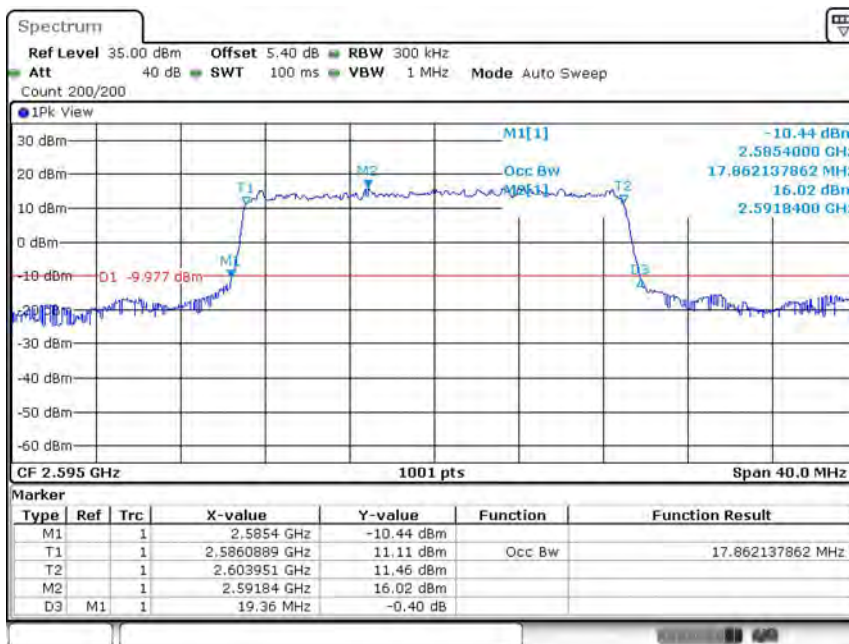
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-64QAM-37850-100RB#0-17.902



Date: 5 NOV.2020 14:09:44

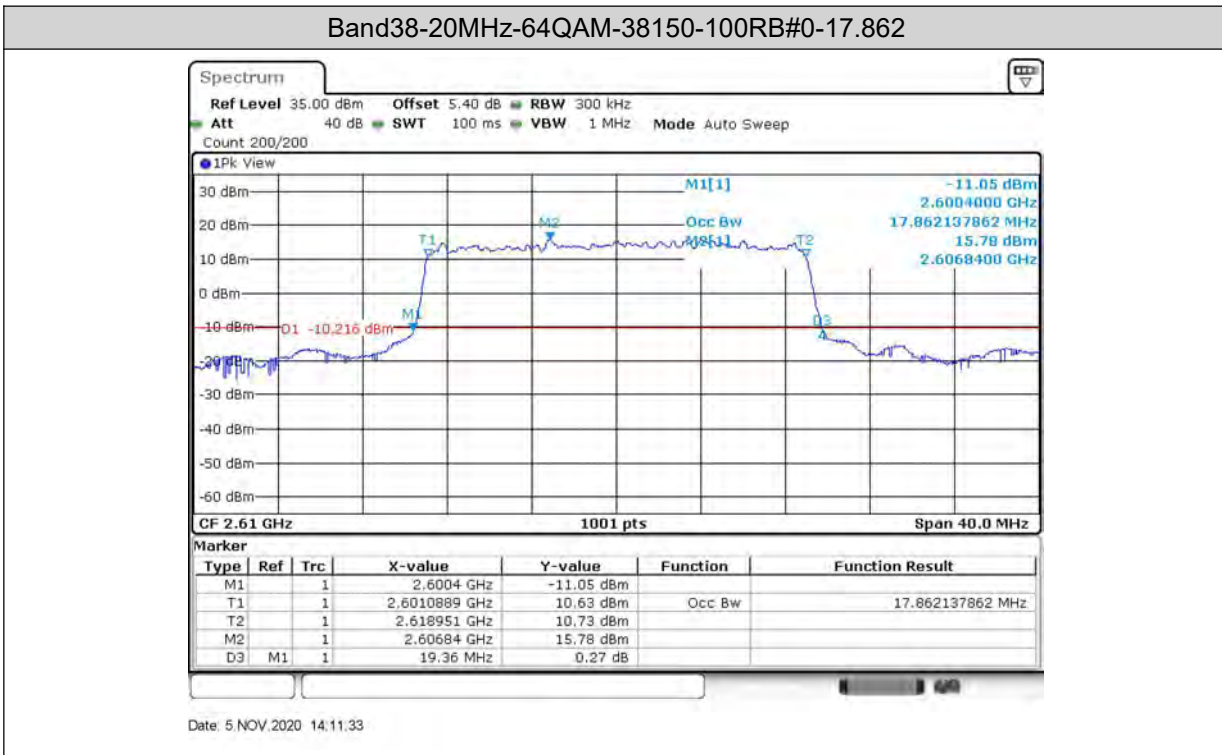
Band38-20MHz-64QAM-38000-100RB#0-17.862



Date: 5 NOV.2020 14:10:19



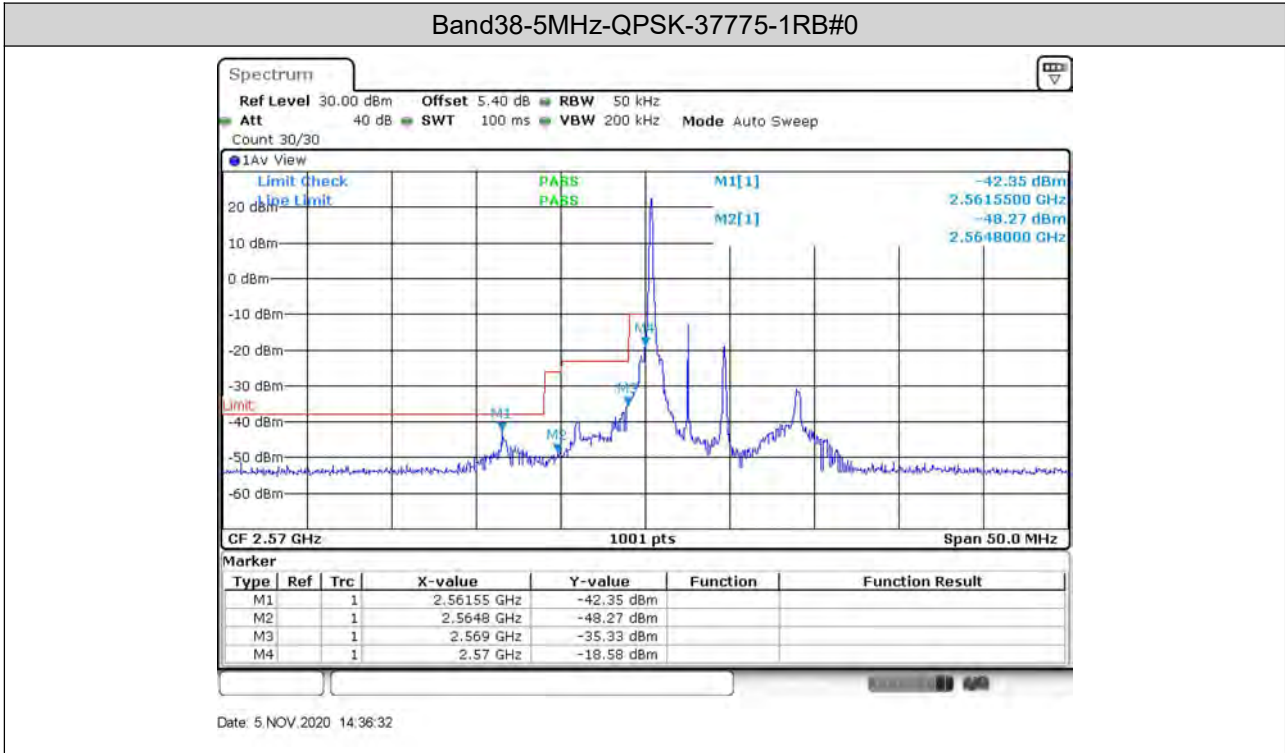
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.



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.

5 Band Edge Compliance

5.1 Test Plots

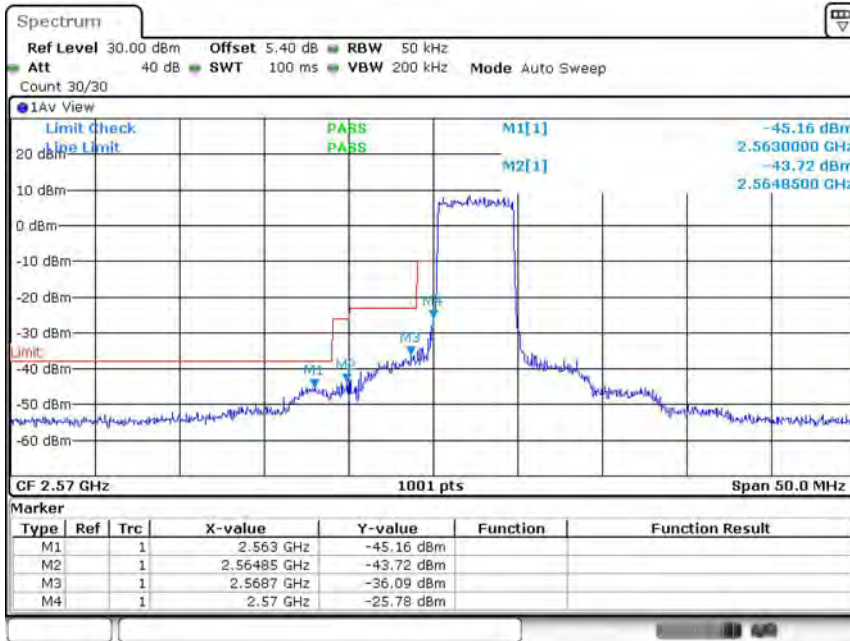


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

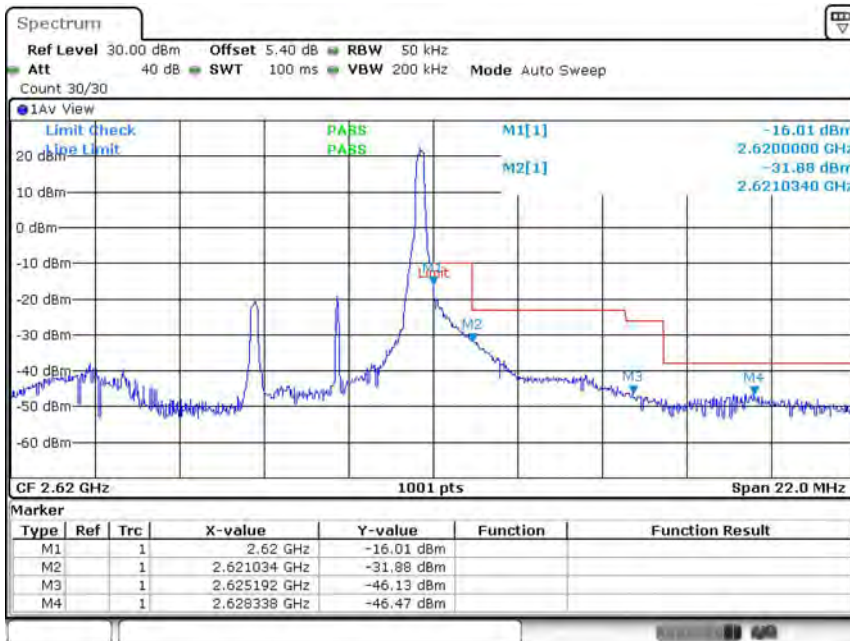
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-5MHz-QPSK-37775-25RB#0



Date: 5 NOV 2020 14:37:42

Band38-5MHz-QPSK-38225-1RB#24



Date: 5 NOV 2020 14:41:35

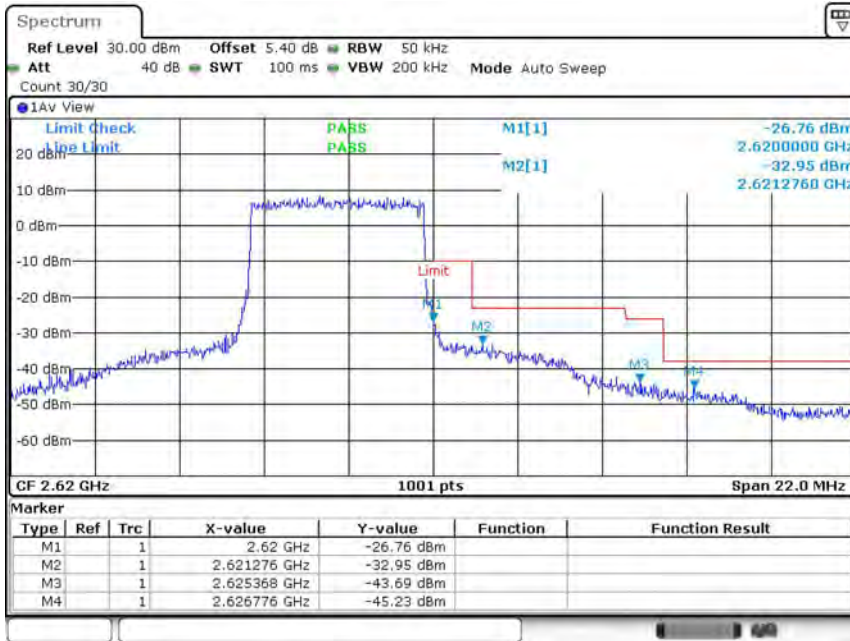


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

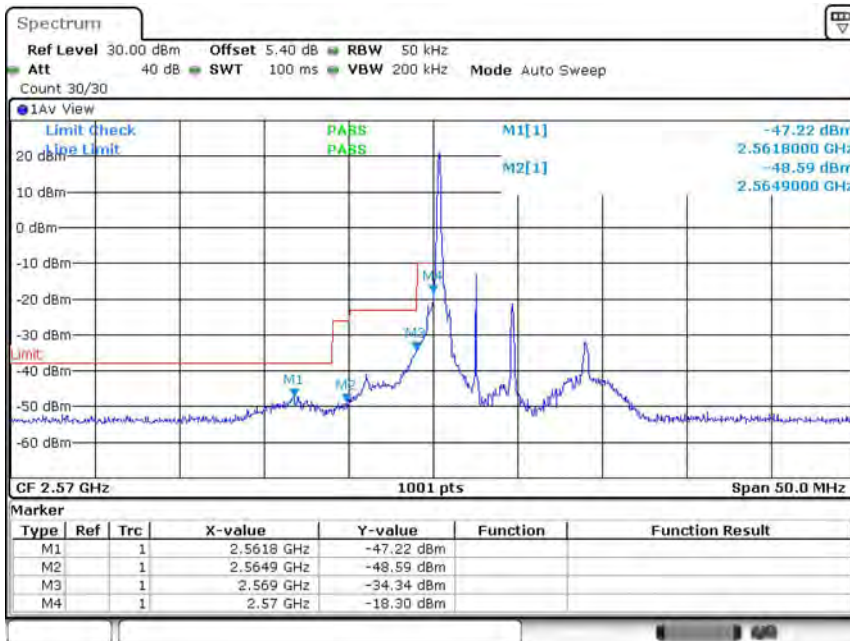
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-5MHz-QPSK-38225-25RB#0



Date: 5 NOV.2020 14:44:02

Band38-5MHz-16QAM-37775-1RB#0

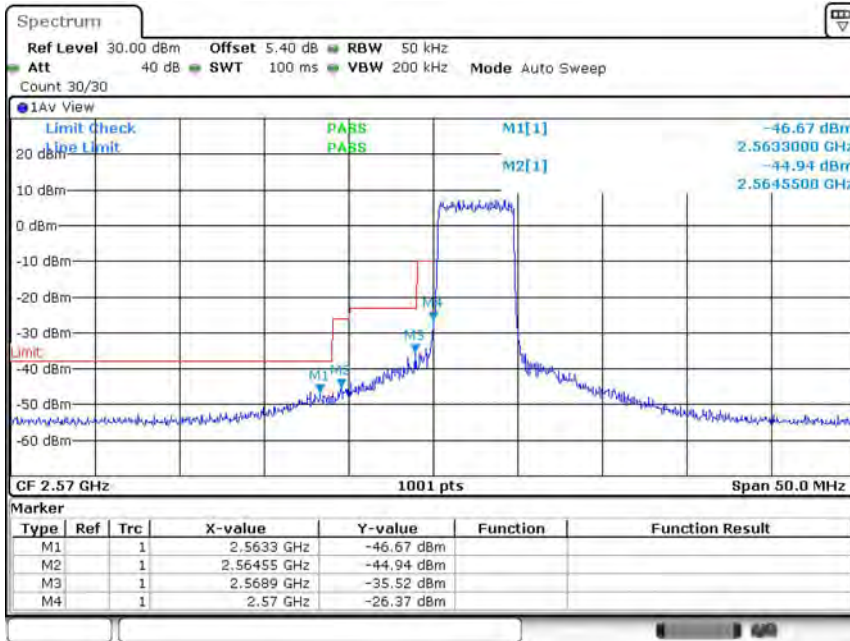


Date: 5 NOV.2020 14:37:25



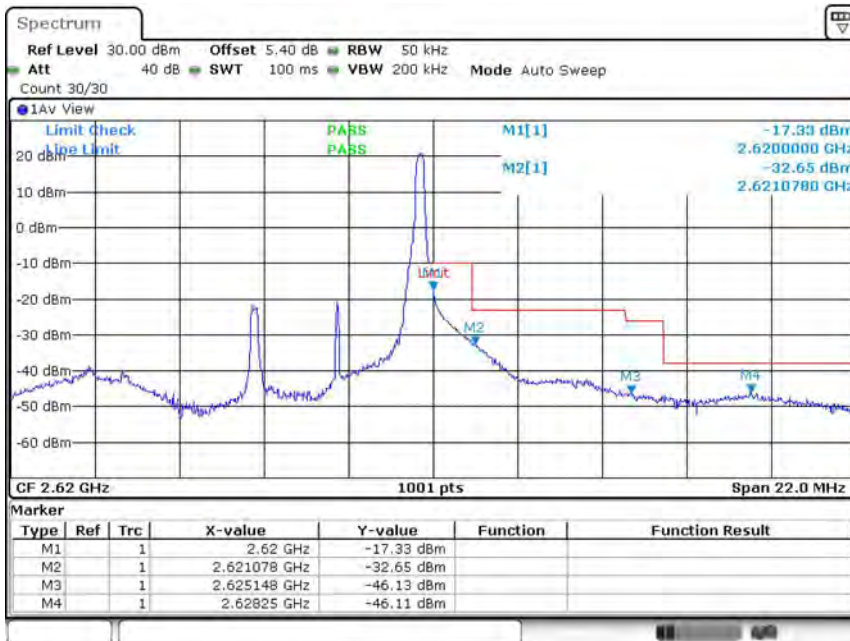
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-5MHz-16QAM-37775-25RB#0



Date: 5 NOV.2020 14:38:00

Band38-5MHz-16QAM-38225-1RB#24



Date: 5 NOV.2020 14:43:44

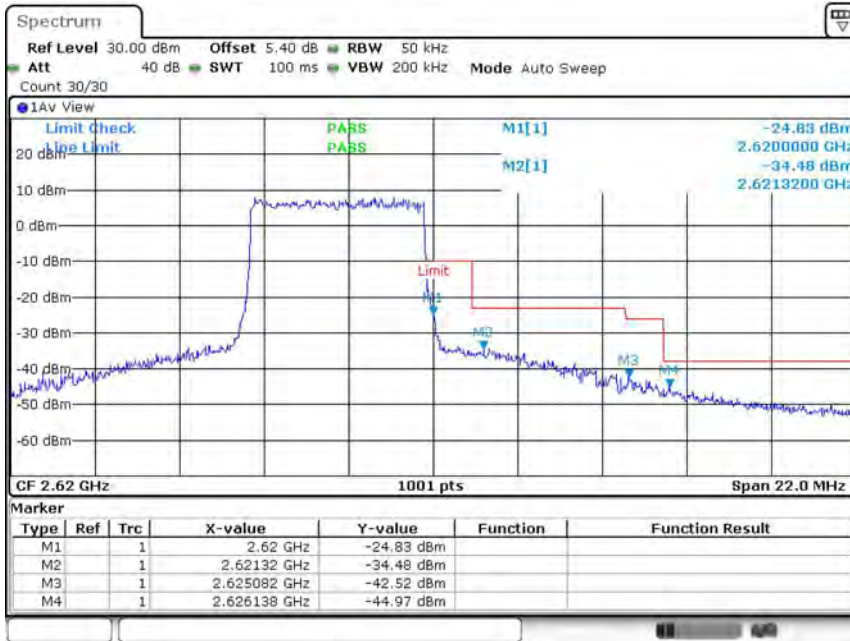


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

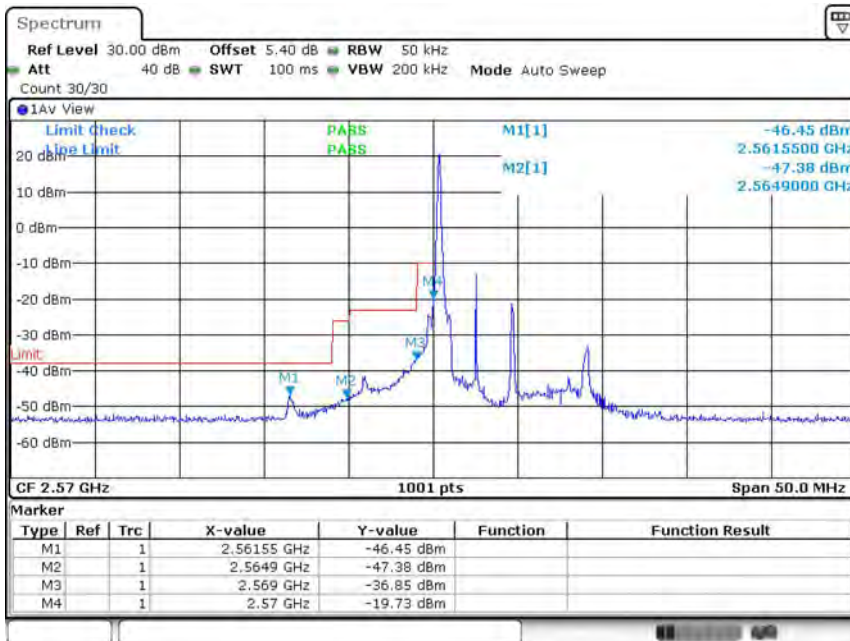
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-5MHz-16QAM-38225-25RB#0



Date: 5 NOV.2020 14:44:58

Band38-5MHz-64QAM-37775-1RB#0

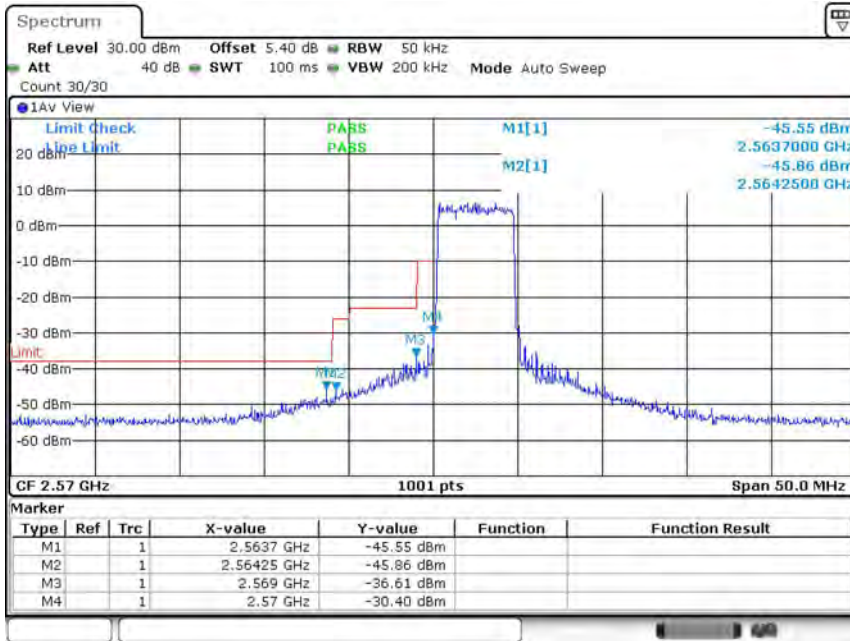


Date: 5 NOV.2020 14:51:32



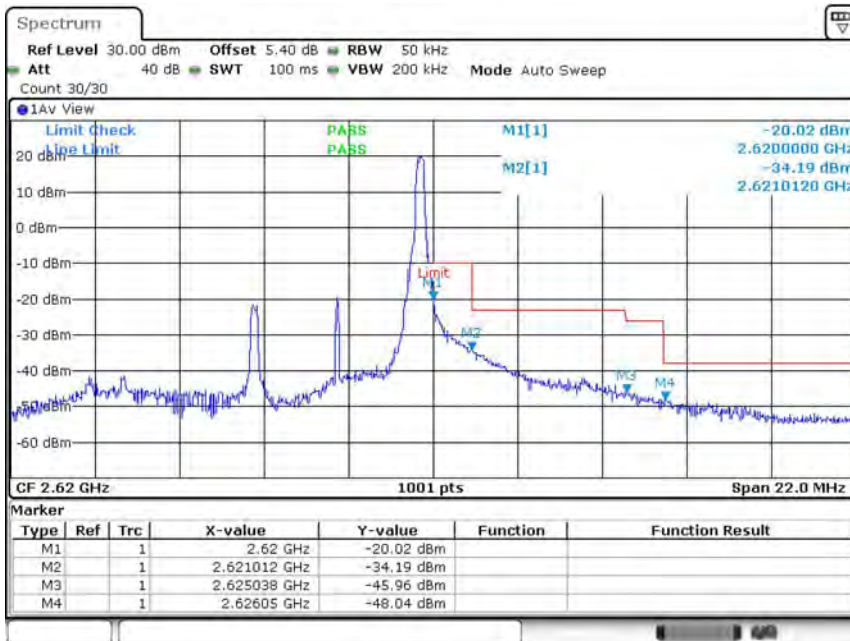
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-5MHz-64QAM-37775-25RB#0



Date: 5 NOV.2020 14:51:50

Band38-5MHz-64QAM-38225-1RB#24



Date: 5 NOV.2020 14:52:42

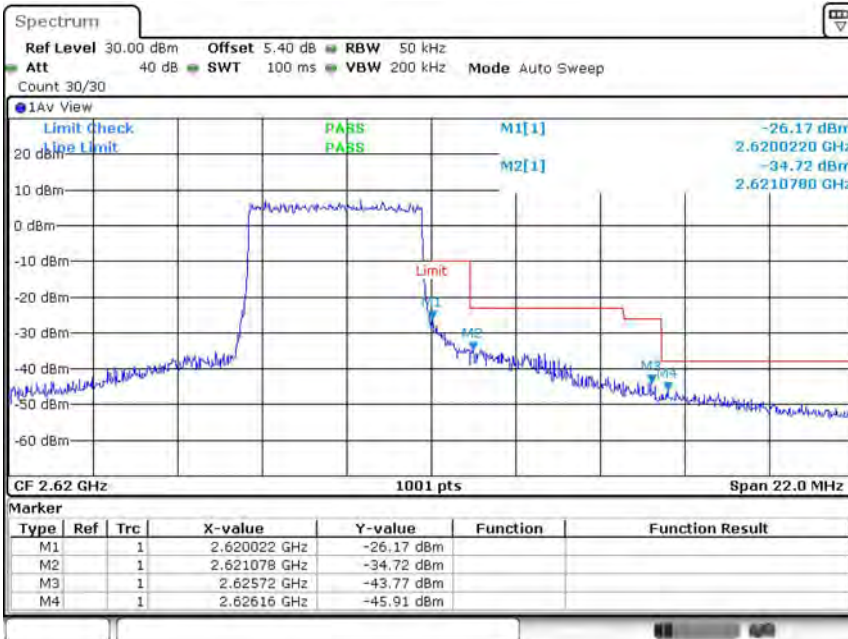


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

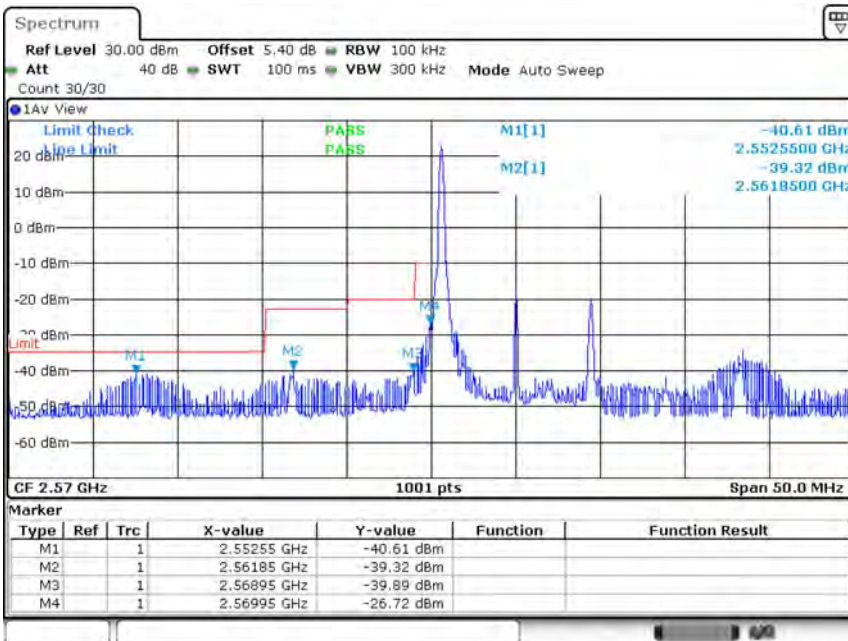
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-5MHz-64QAM-38225-25RB#0



Date: 5 NOV.2020 14:53:26

Band38-10MHz-QPSK-37800-1RB#0

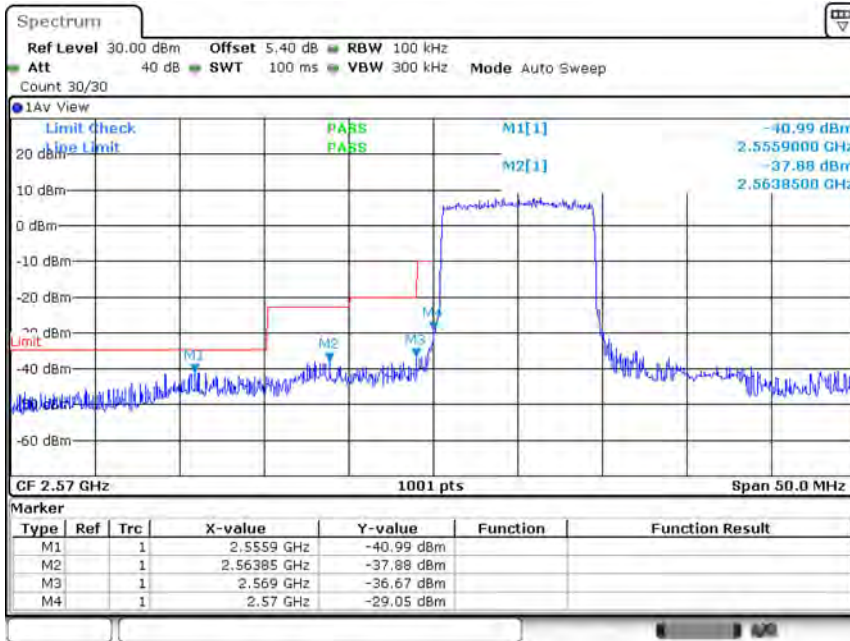


Date: 22 OCT.2020 00:46:15



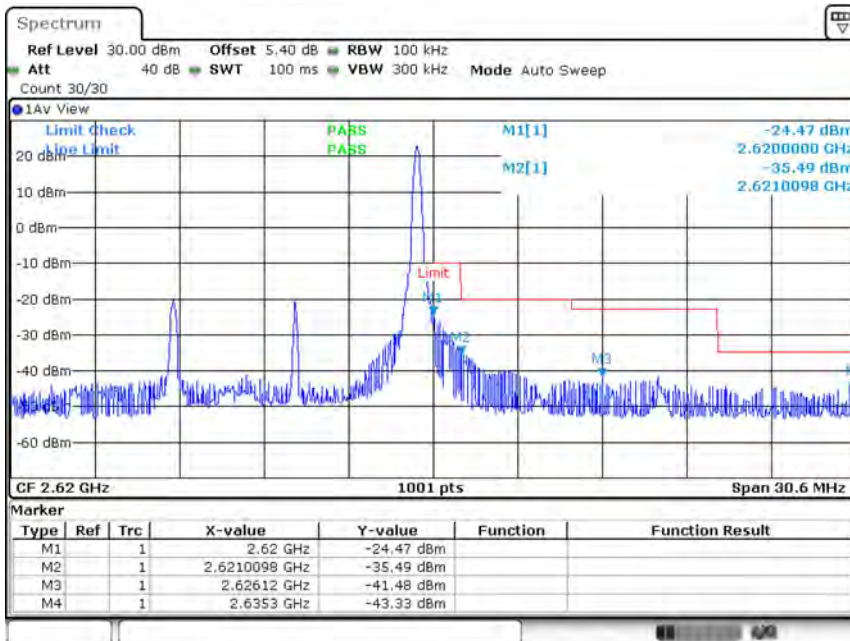
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-QPSK-37800-50RB#0



Date: 22 OCT.2020 00:46:53

Band38-10MHz-QPSK-38200-1RB#49



Date: 22 OCT.2020 00:47:38

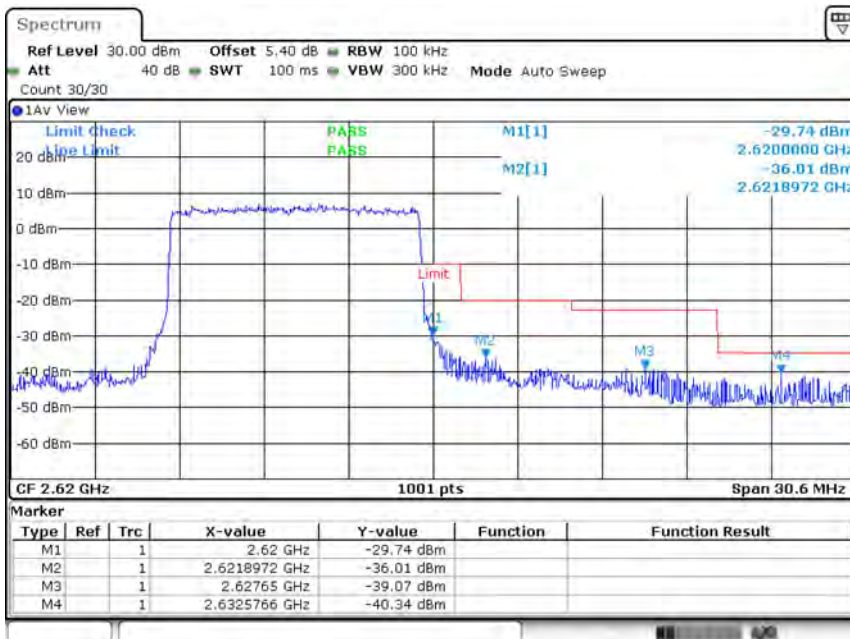


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

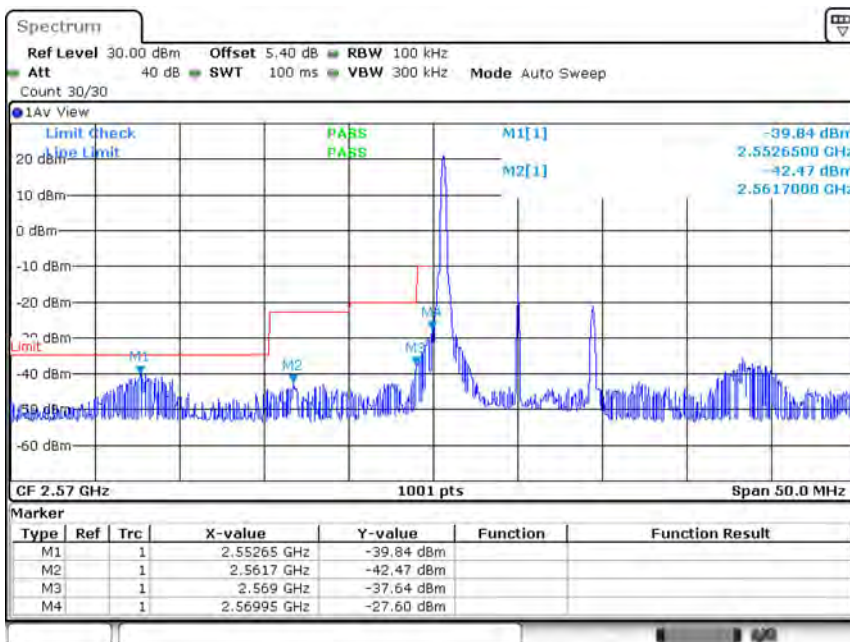
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-10MHz-QPSK-38200-50RB#0



Date: 22 OCT.2020 00:48:16

Band38-10MHz-16QAM-37800-1RB#0

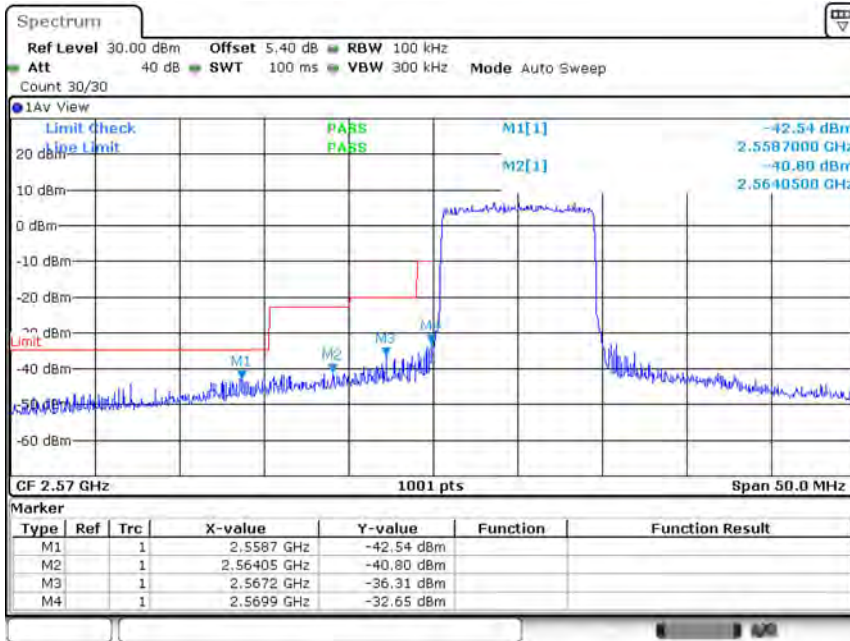


Date: 22 OCT.2020 00:46:34



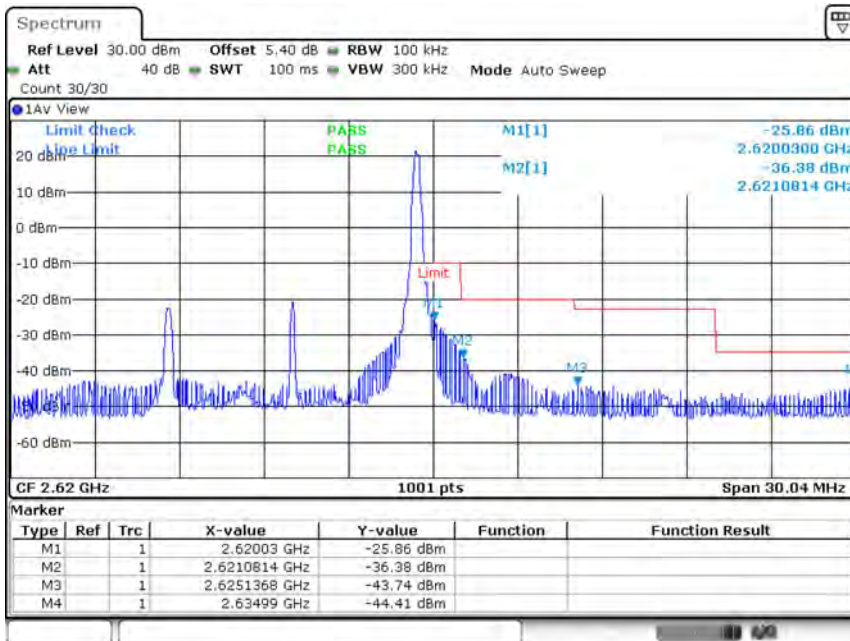
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-10MHz-16QAM-37800-50RB#0



Date: 22.OCT.2020 00:47:12

Band38-10MHz-16QAM-38200-1RB#49



Date: 22.OCT.2020 00:47:57

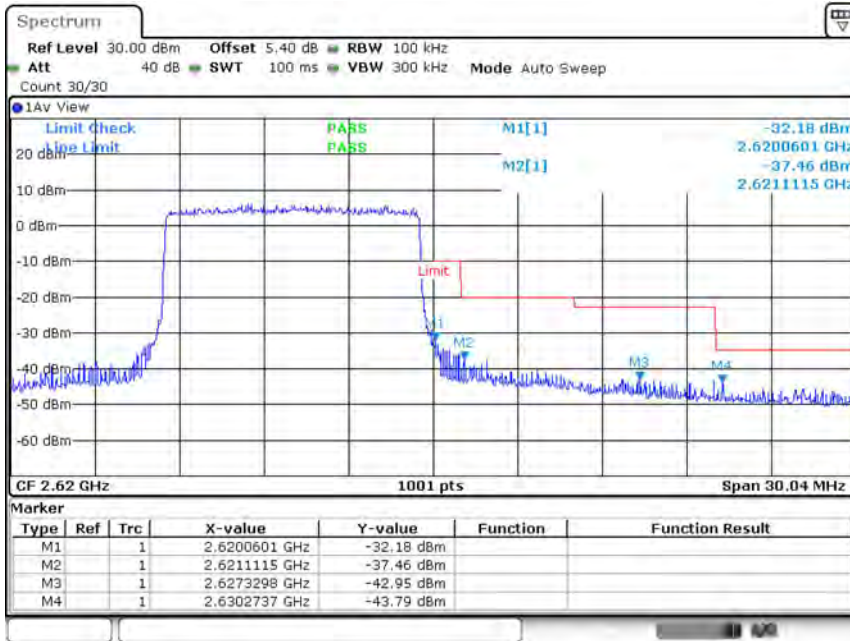


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

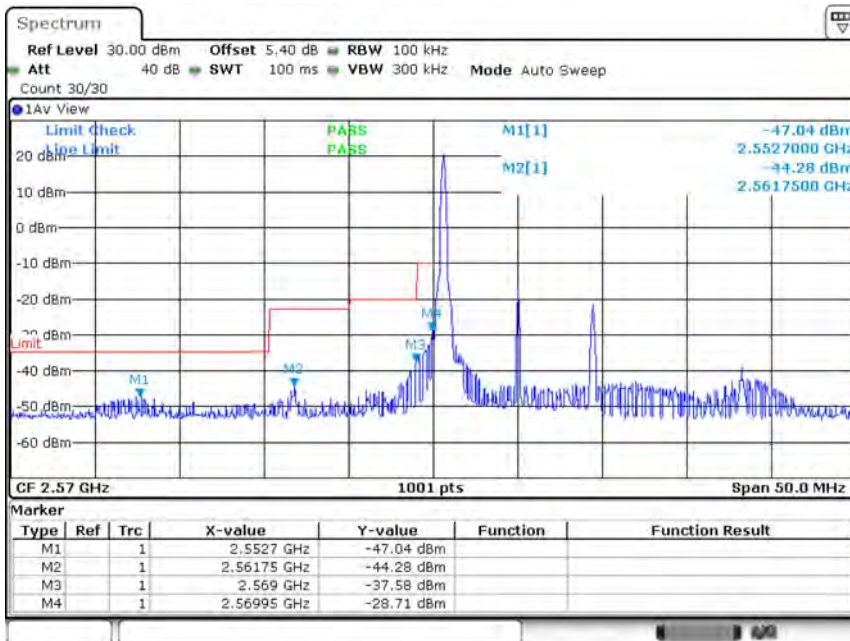
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-10MHz-16QAM-38200-50RB#0



Date: 22 OCT.2020 00:48:35

Band38-10MHz-64QAM-37800-1RB#0



Date: 22 OCT.2020 11:51:00

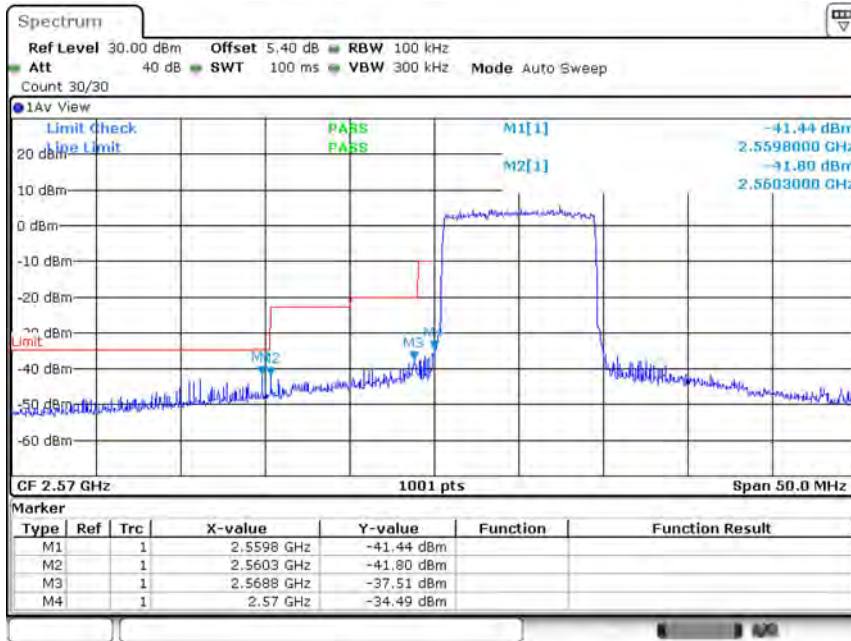


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

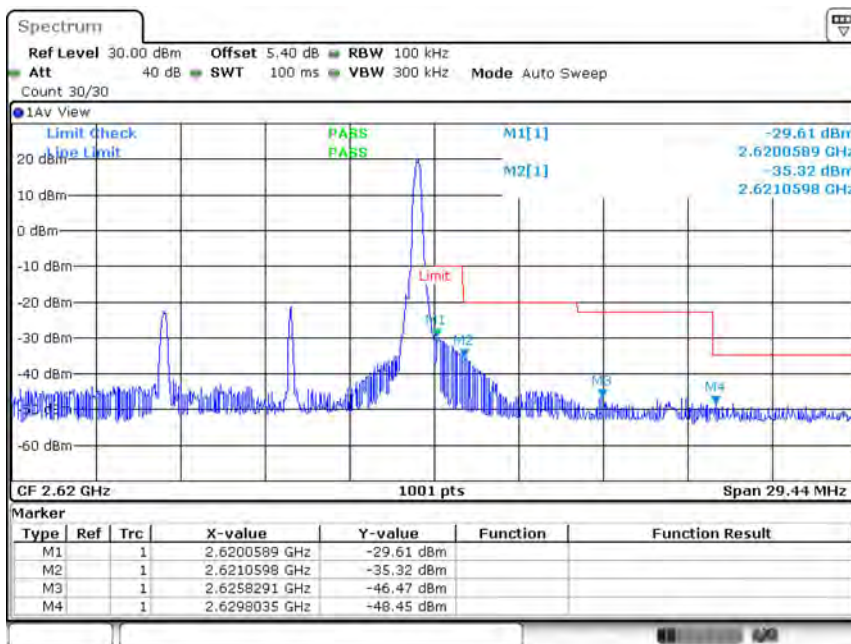
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-10MHz-64QAM-37800-50RB#0



Date: 22 OCT.2020 11:51:19

Band38-10MHz-64QAM-38200-1RB#49



Date: 22 OCT.2020 11:51:47

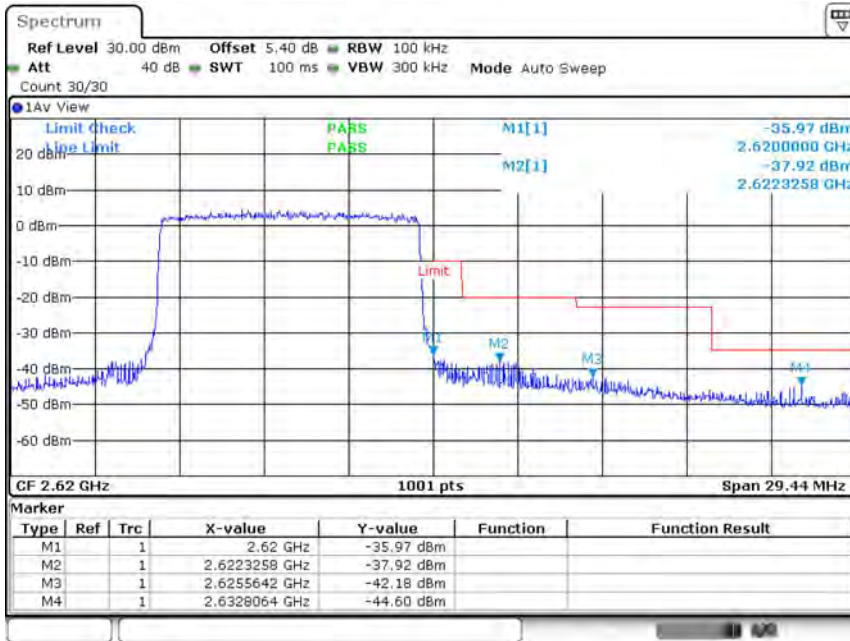


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

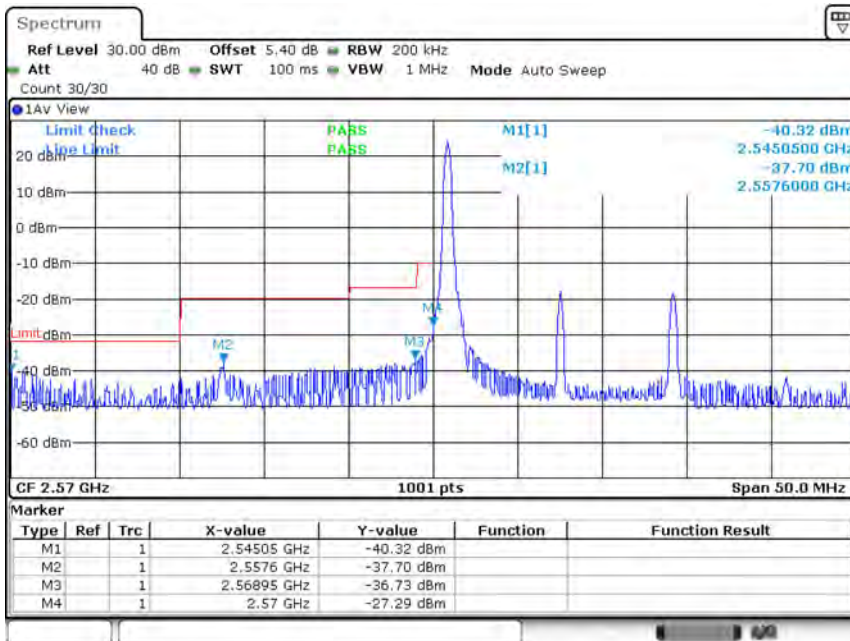
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-10MHz-64QAM-38200-50RB#0



Date: 22 OCT.2020 11:52:06

Band38-15MHz-QPSK-37825-1RB#0



Date: 22 OCT.2020 00:49:03

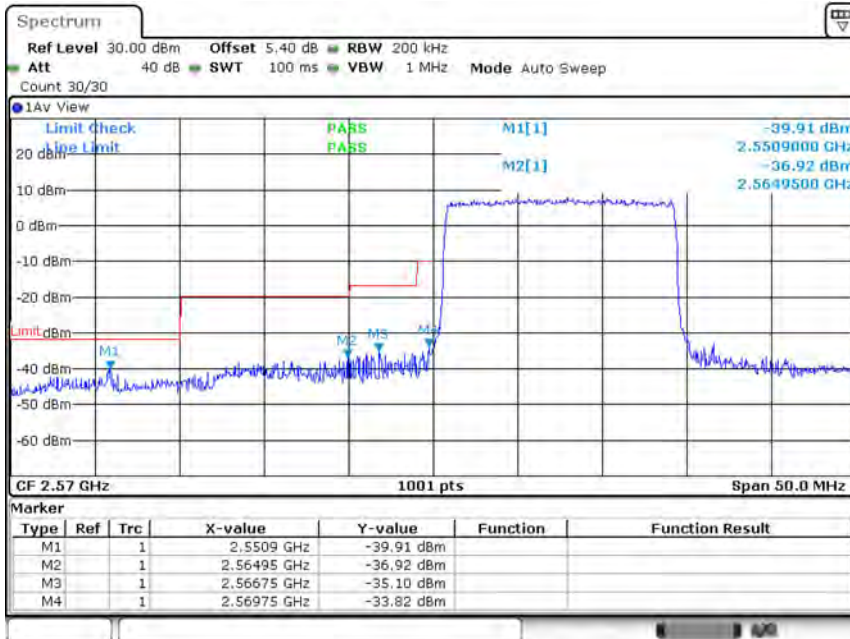


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

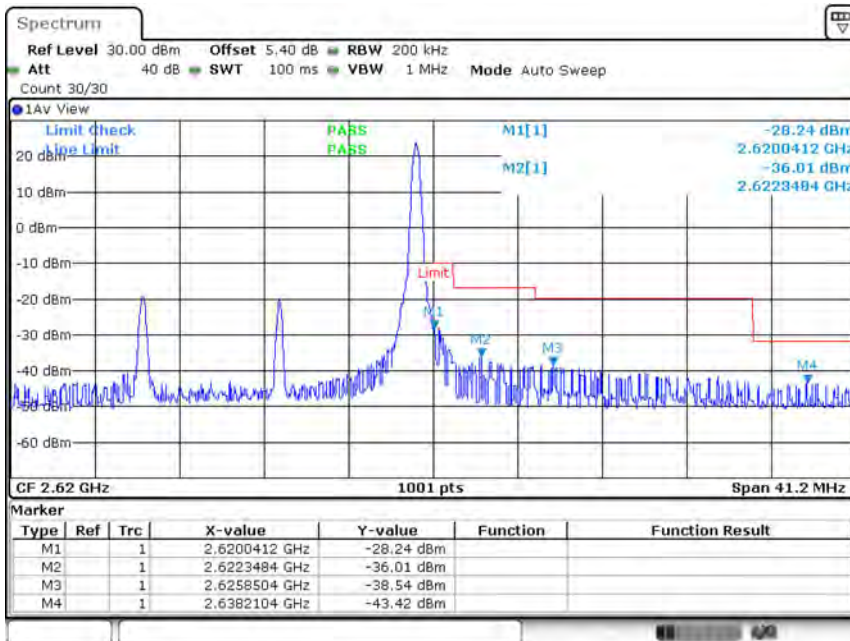
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-15MHz-QPSK-37825-75RB#0



Date: 22 OCT.2020 00:49:41

Band38-15MHz-QPSK-38175-1RB#74



Date: 22 OCT.2020 00:50:27

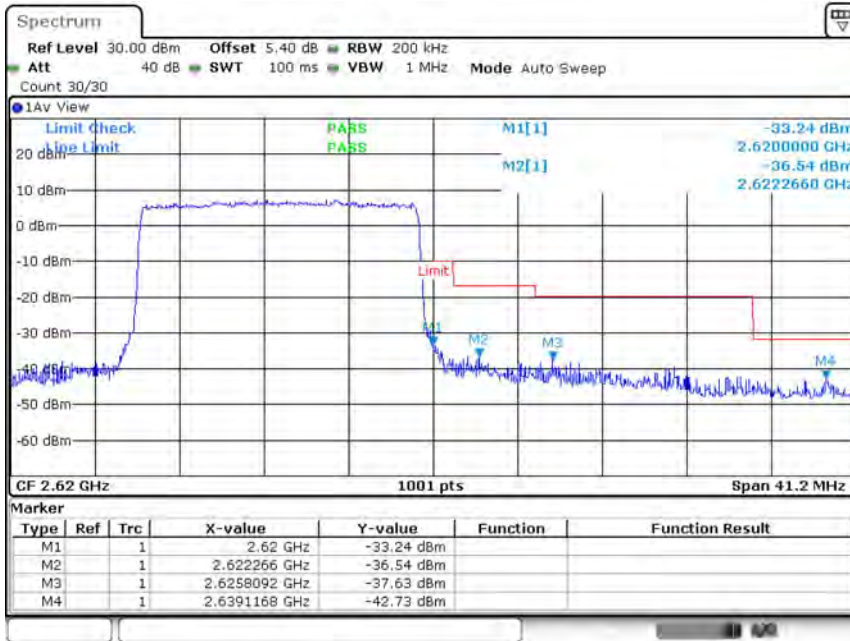


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

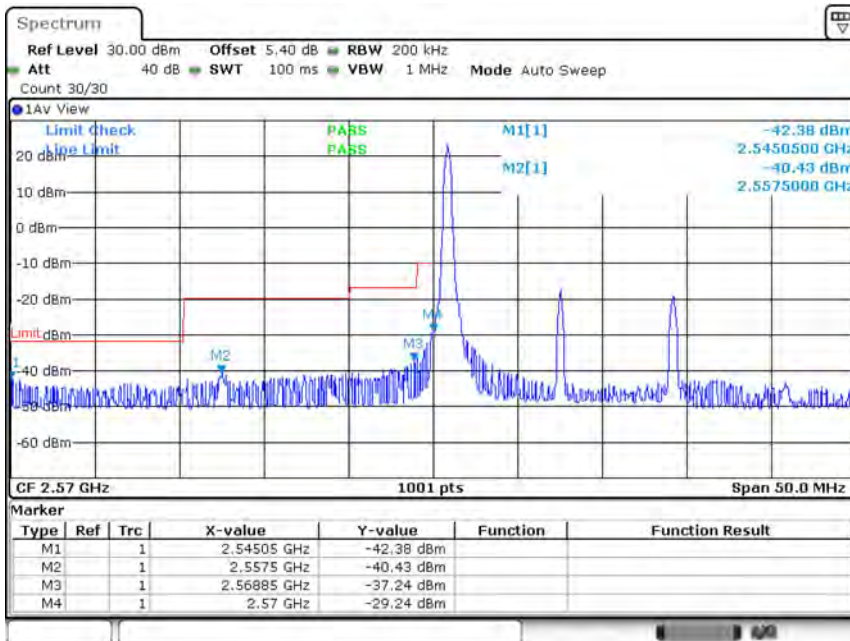
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-15MHz-QPSK-38175-75RB#0



Date: 22 OCT.2020 00:51:04

Band38-15MHz-16QAM-37825-1RB#0

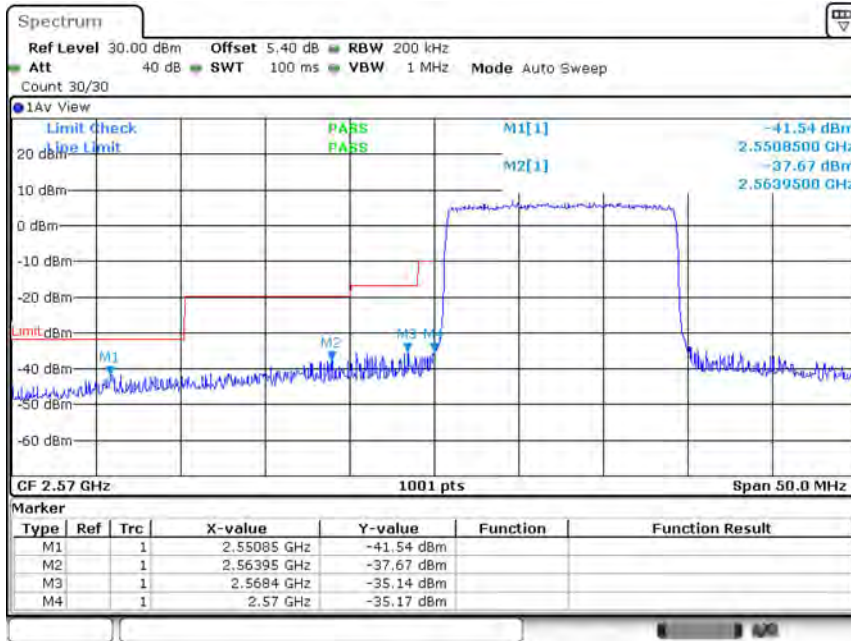


Date: 22 OCT.2020 00:49:22



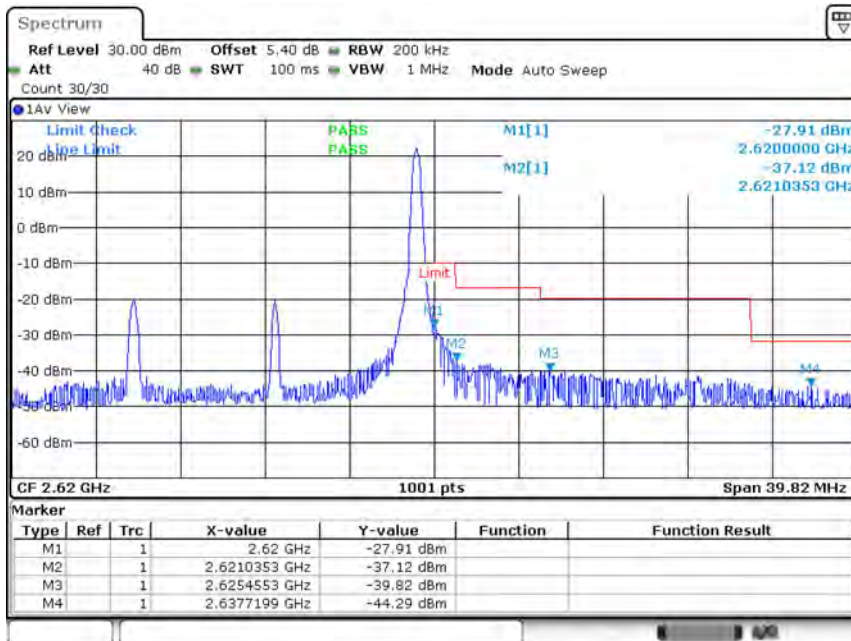
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-15MHz-16QAM-37825-75RB#0



Date: 22 OCT.2020 00:50:00

Band38-15MHz-16QAM-38175-1RB#74



Date: 22 OCT.2020 00:50:45

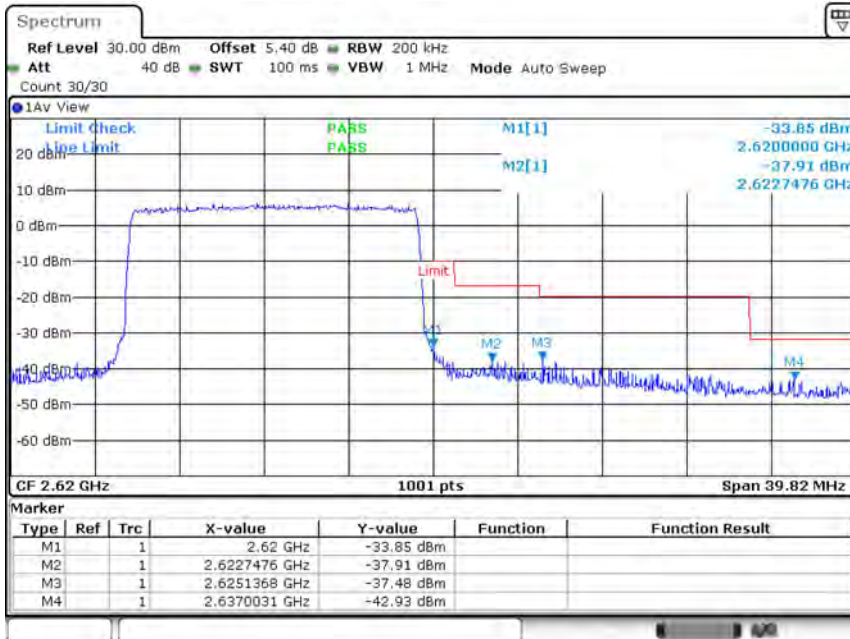


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

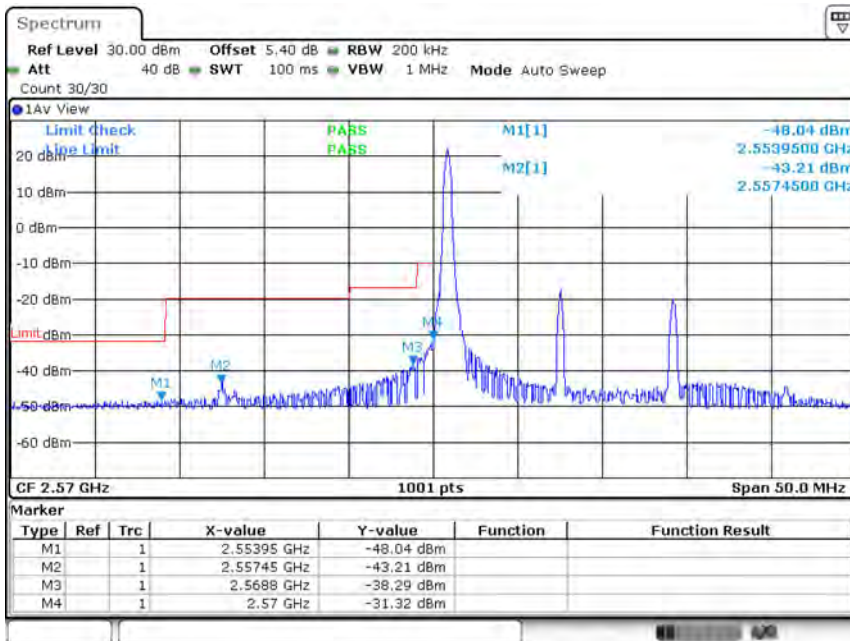
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-15MHz-16QAM-38175-75RB#0



Date: 22.OCT.2020 00:51:23

Band38-15MHz-64QAM-37825-1RB#0

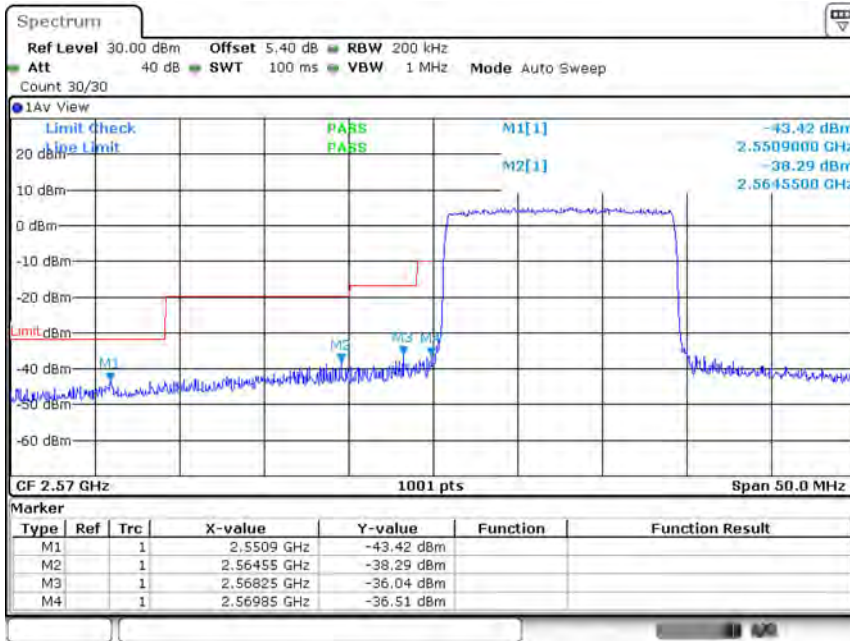


Date: 22.OCT.2020 11:52:35



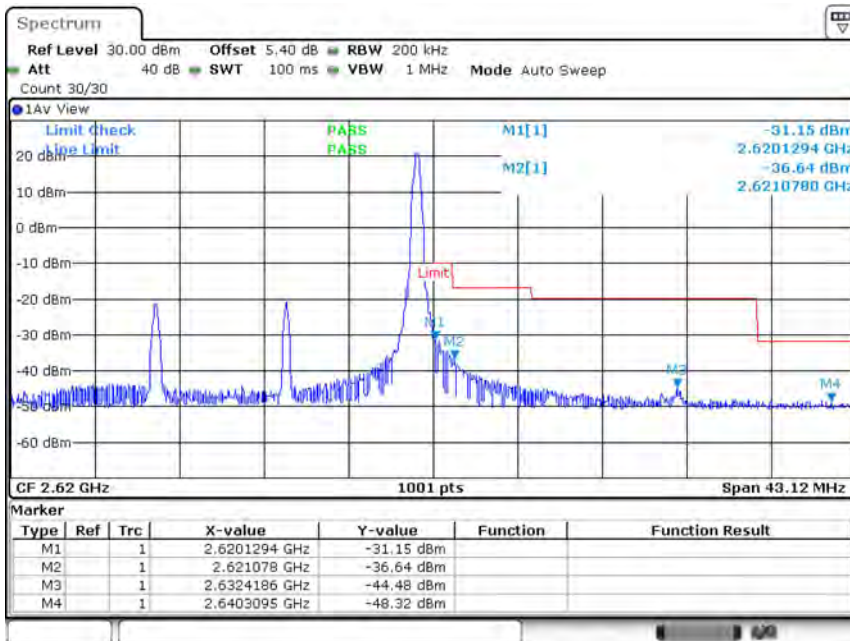
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-15MHz-64QAM-37825-75RB#0



Date: 22 OCT.2020 11:52:53

Band38-15MHz-64QAM-38175-1RB#74

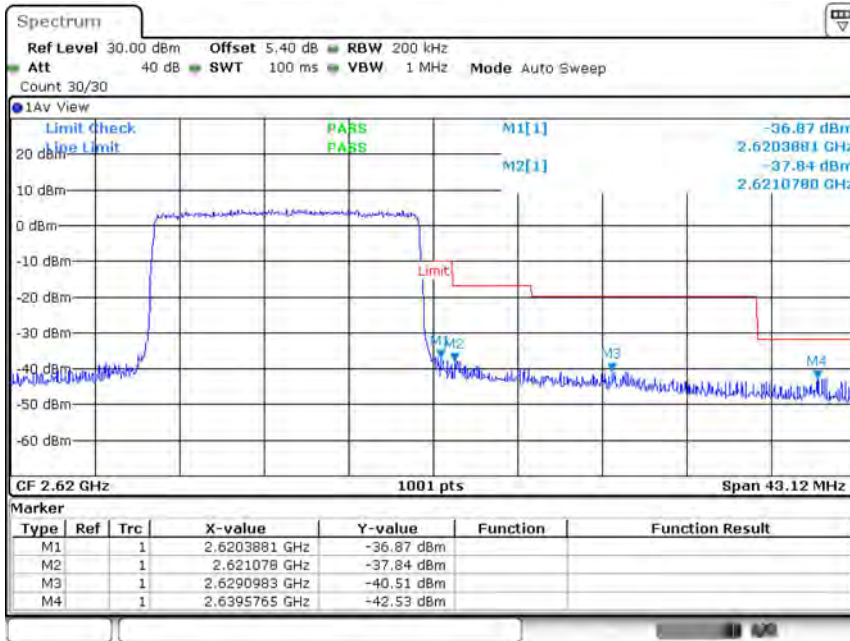


Date: 22 OCT.2020 11:53:21



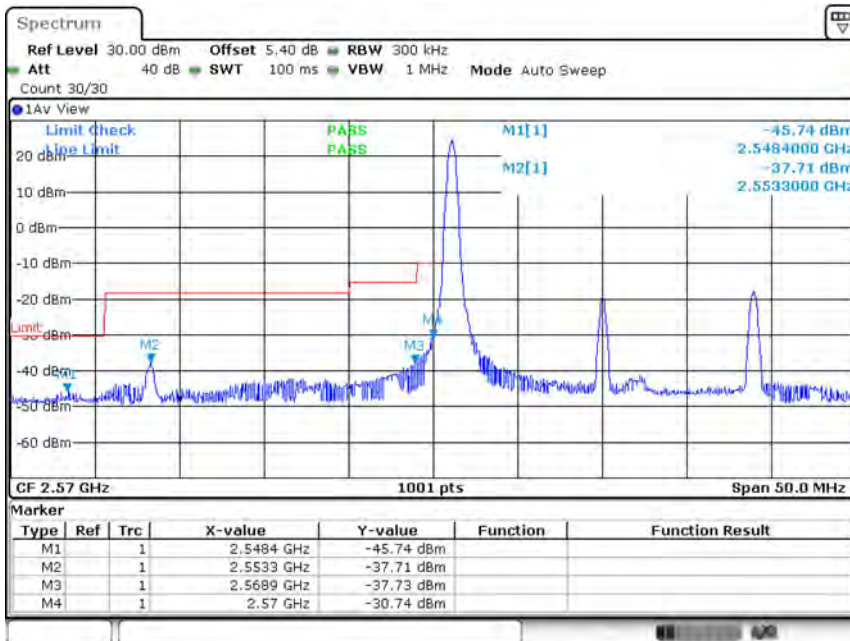
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-15MHz-64QAM-38175-75RB#0



Date: 22 OCT.2020 11:53:39

Band38-20MHz-QPSK-37850-1RB#0

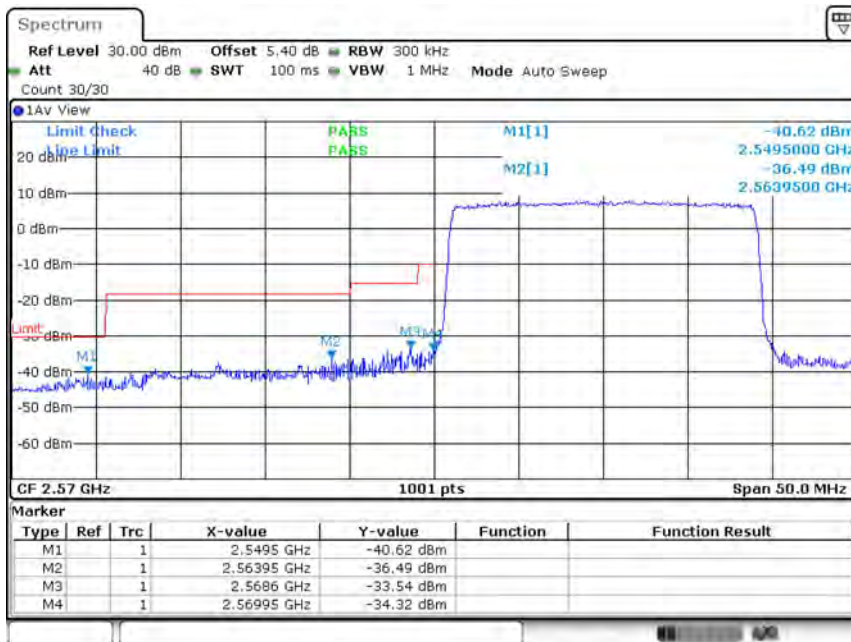


Date: 22 OCT.2020 00:51:51



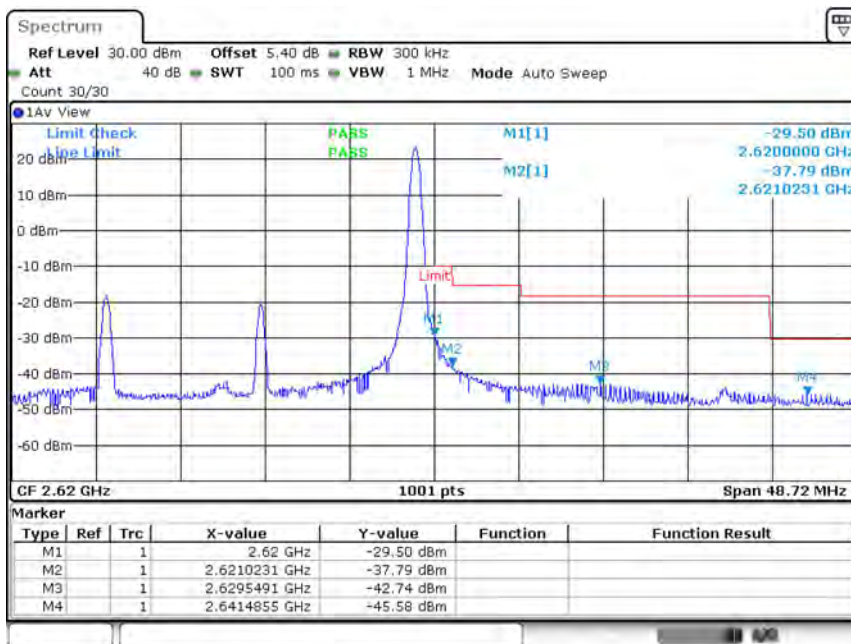
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-QPSK-37850-100RB#0



Date: 22.OCT.2020 00:52:28

Band38-20MHz-QPSK-38150-1RB#99

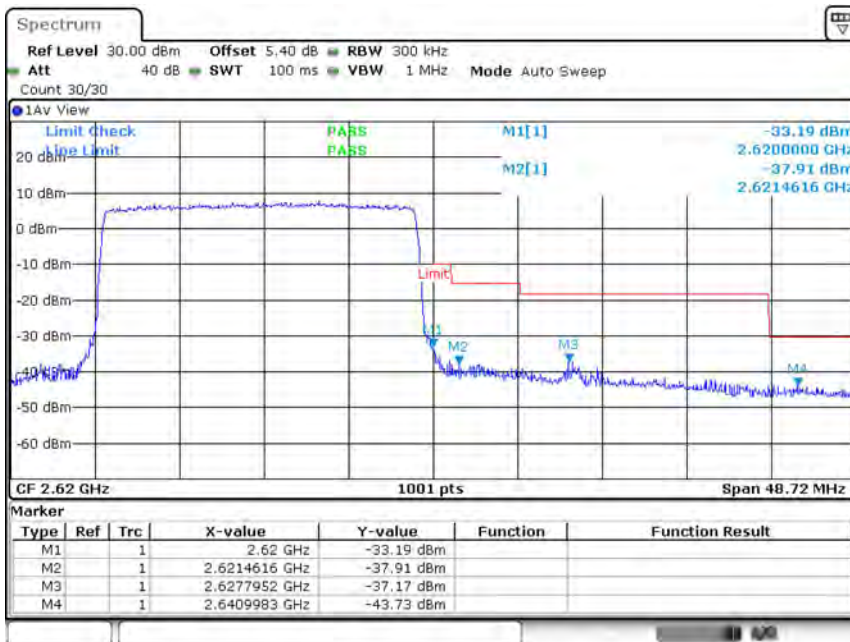


Date: 22.OCT.2020 00:53:14



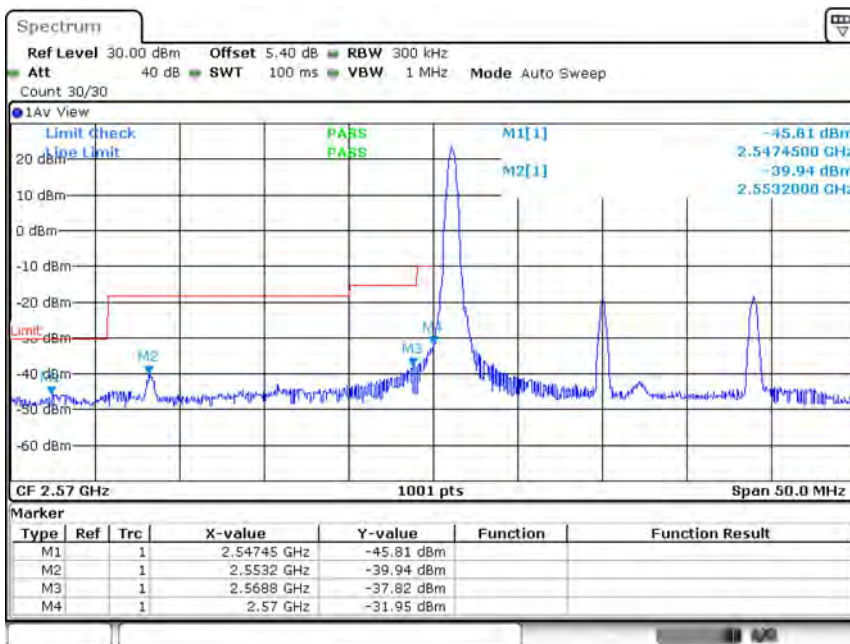
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-QPSK-38150-100RB#0



Date: 22.OCT.2020 00:53:52

Band38-20MHz-16QAM-37850-1RB#0

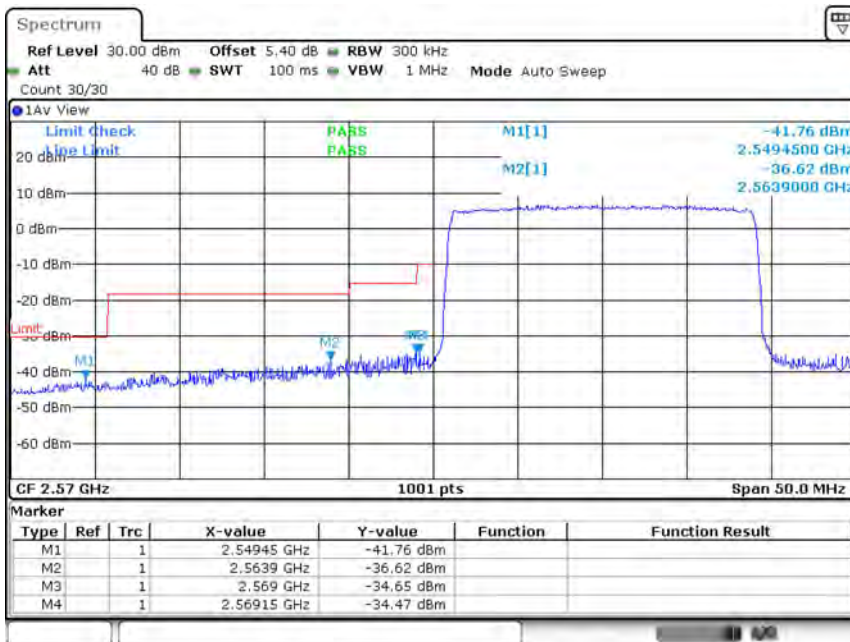


Date: 22.OCT.2020 00:52:10



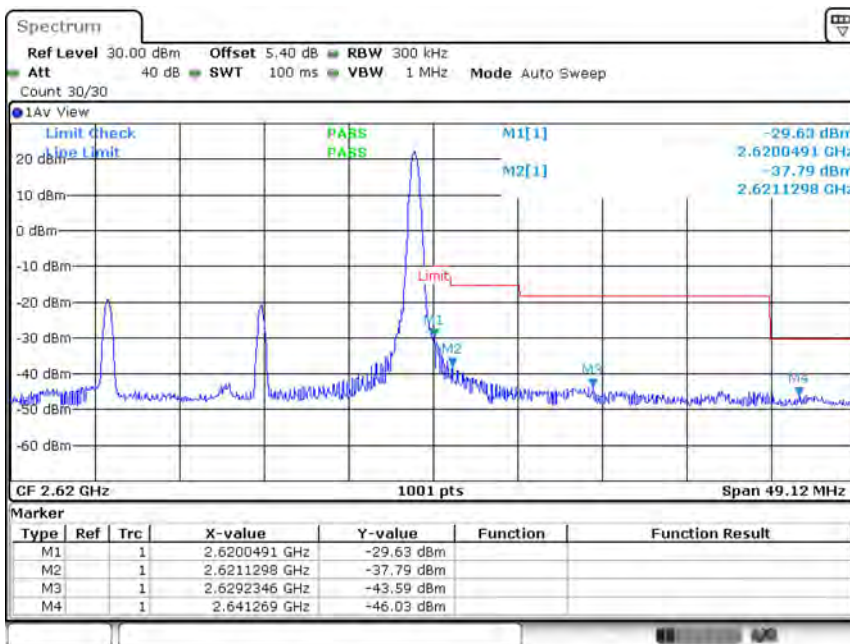
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-16QAM-37850-100RB#0



Date: 22 OCT.2020 00:52:47

Band38-20MHz-16QAM-38150-1RB#99

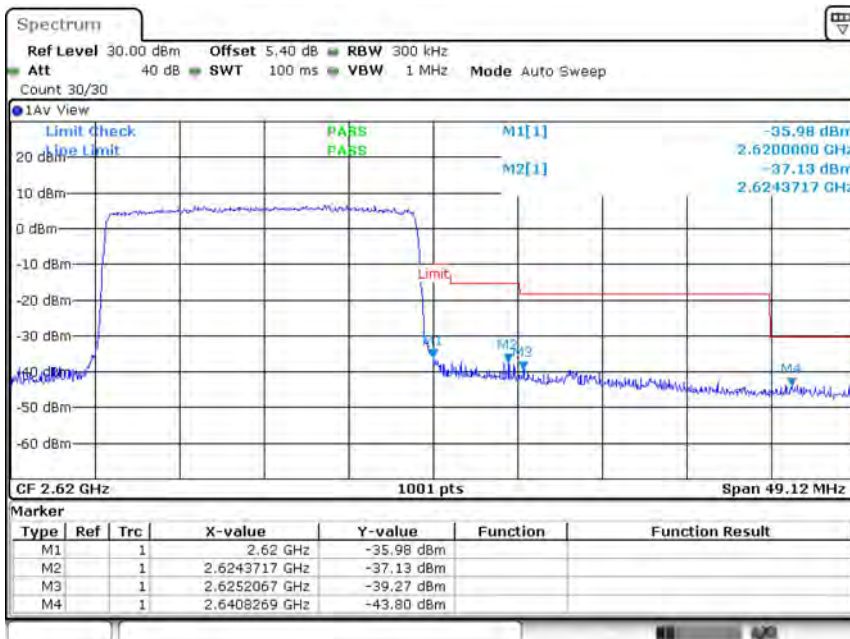


Date: 22 OCT.2020 00:53:33



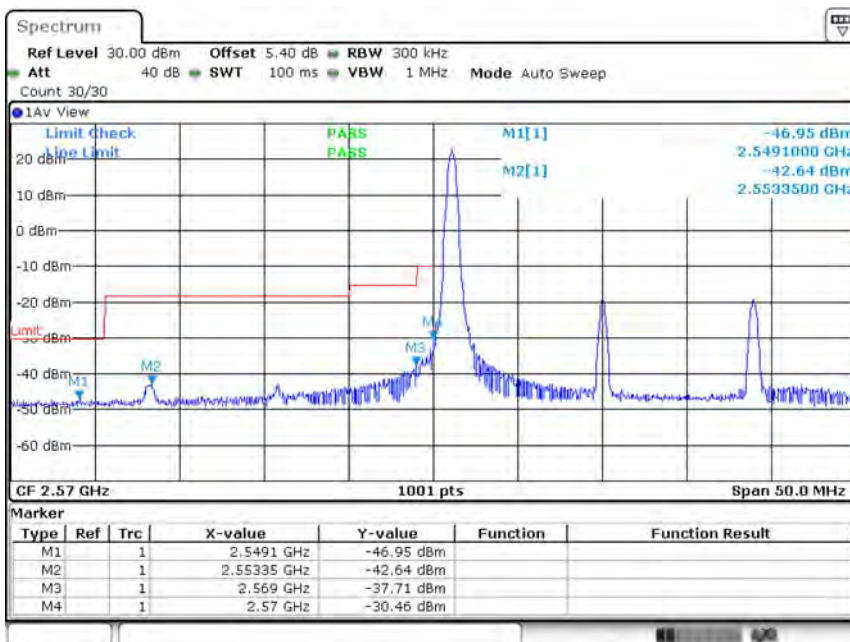
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-16QAM-38150-100RB#0



Date: 22 OCT.2020 00:54:11

Band38-20MHz-64QAM-37850-1RB#0



Date: 22 OCT.2020 11:54:09

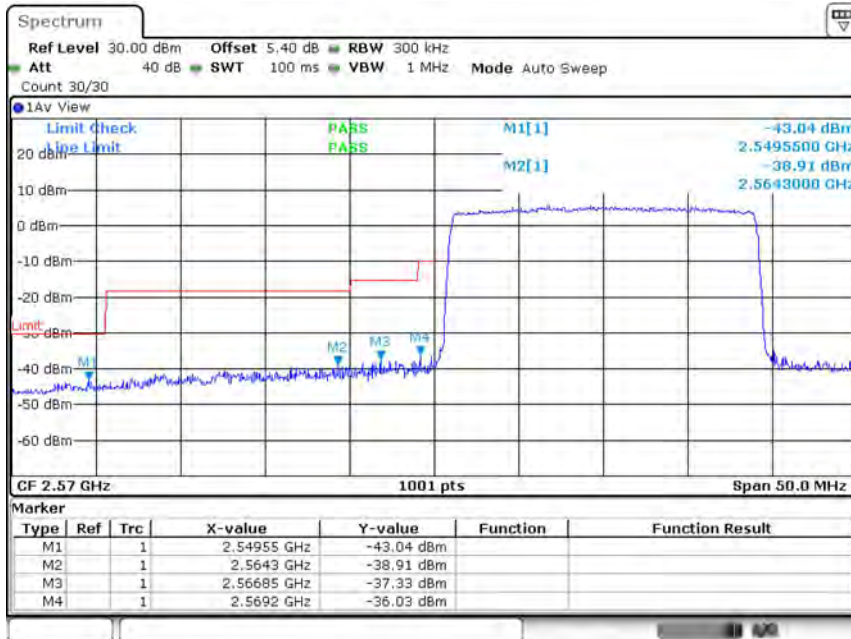


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

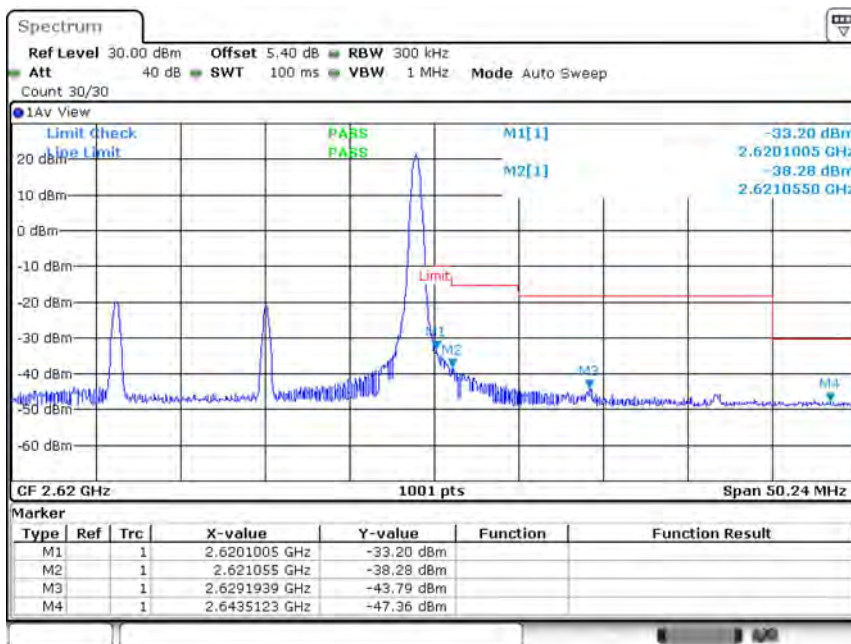
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-20MHz-64QAM-37850-100RB#0



Date: 22 OCT.2020 11:54:27

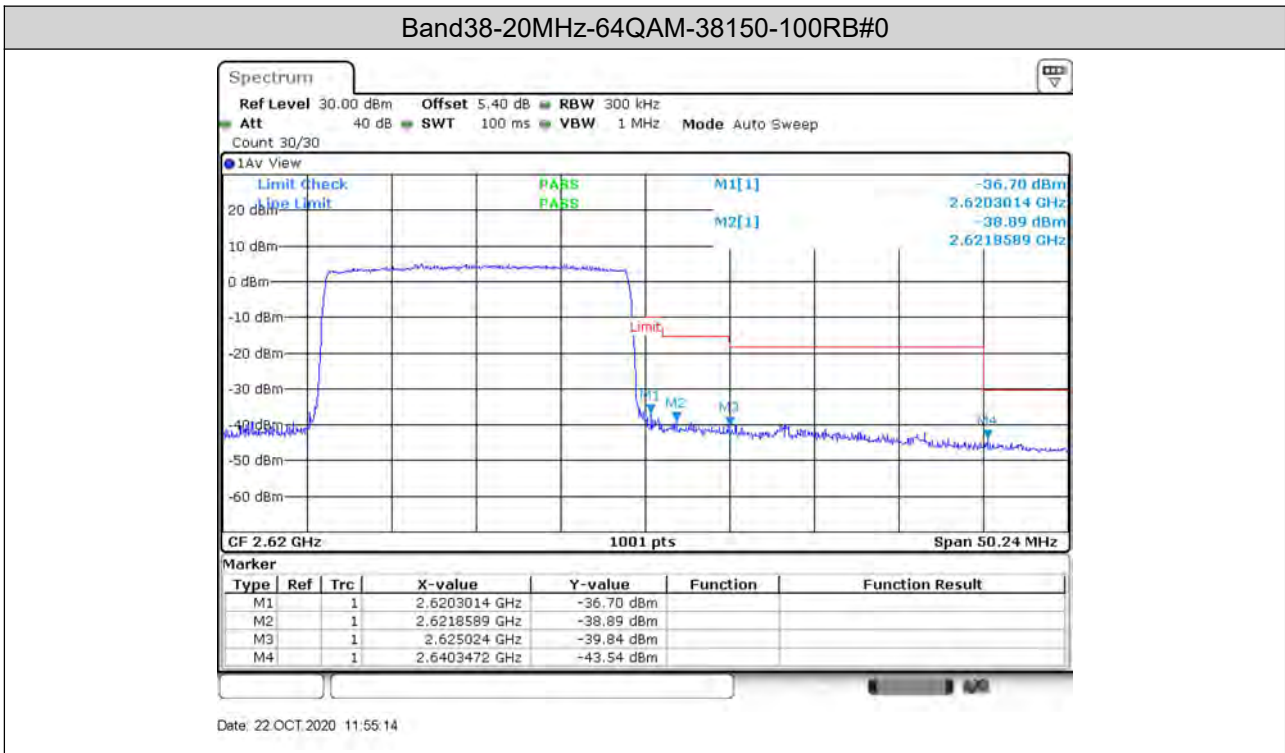
Band38-20MHz-64QAM-38150-1RB#99



Date: 22 OCT.2020 11:54:55



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.



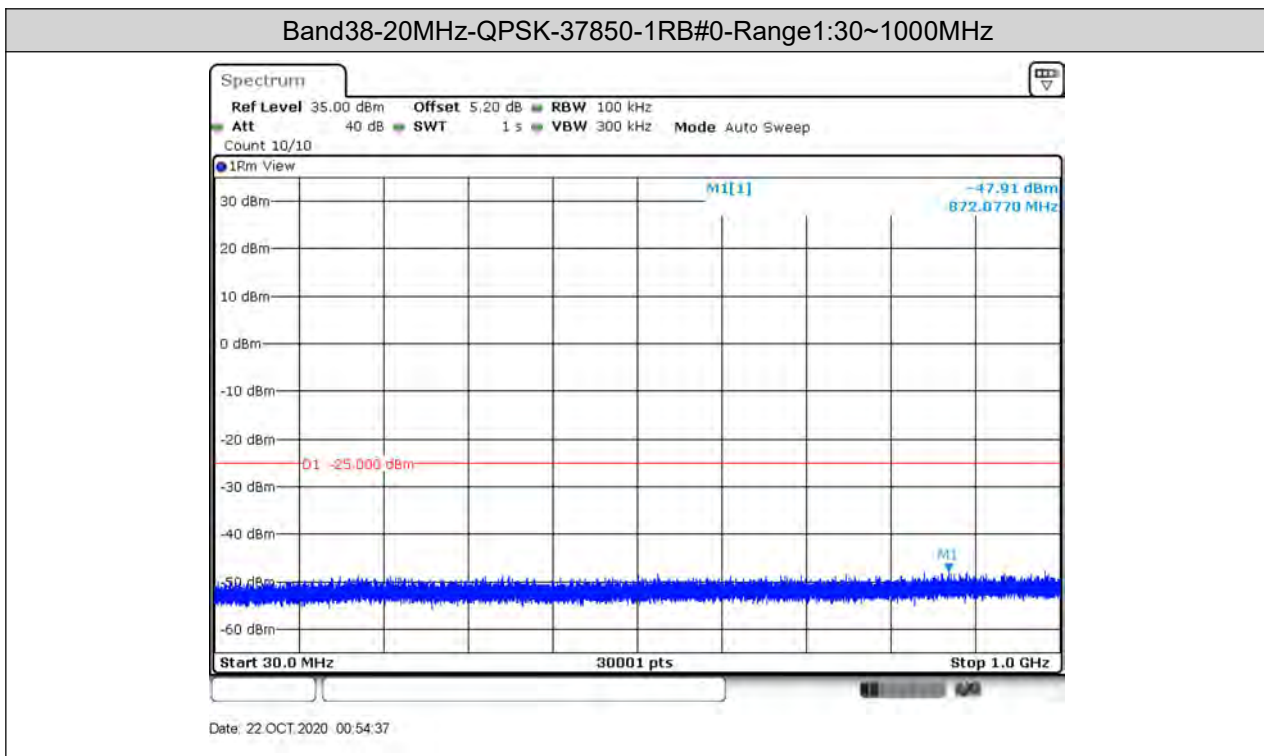
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

6 Spurious Emission at Antenna Terminal

Remark1: 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.

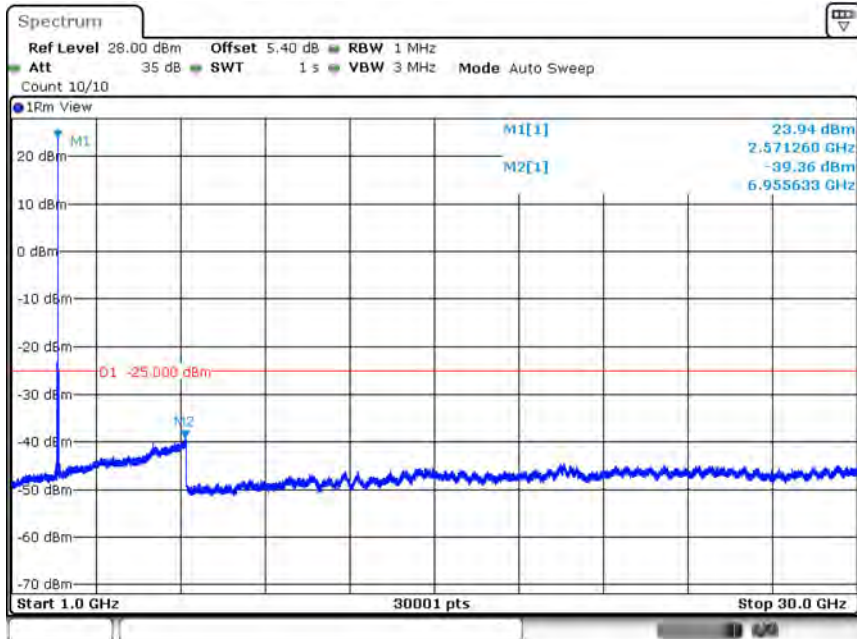
Remark2: only the worst case data displayed in this report.

6.1 Test Plots



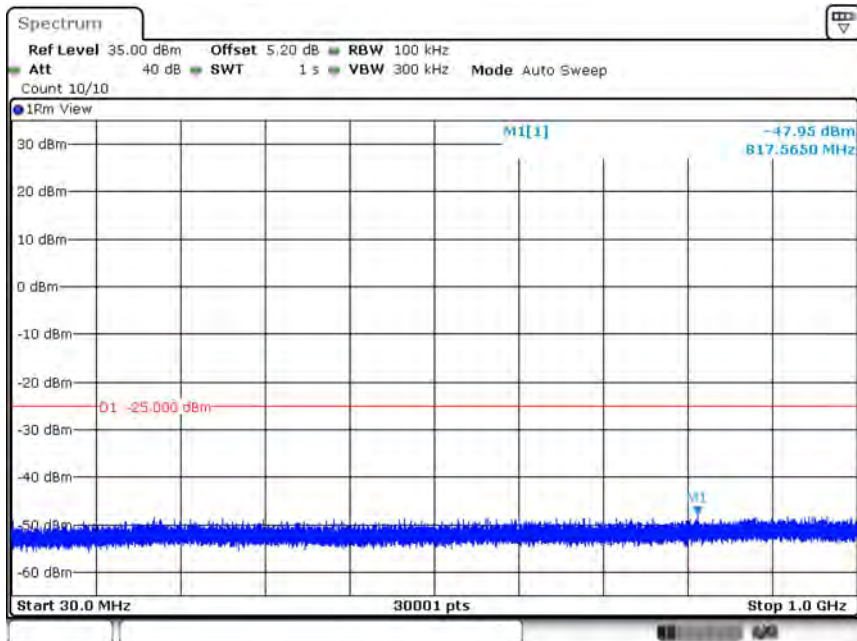
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 00:54:55

Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz

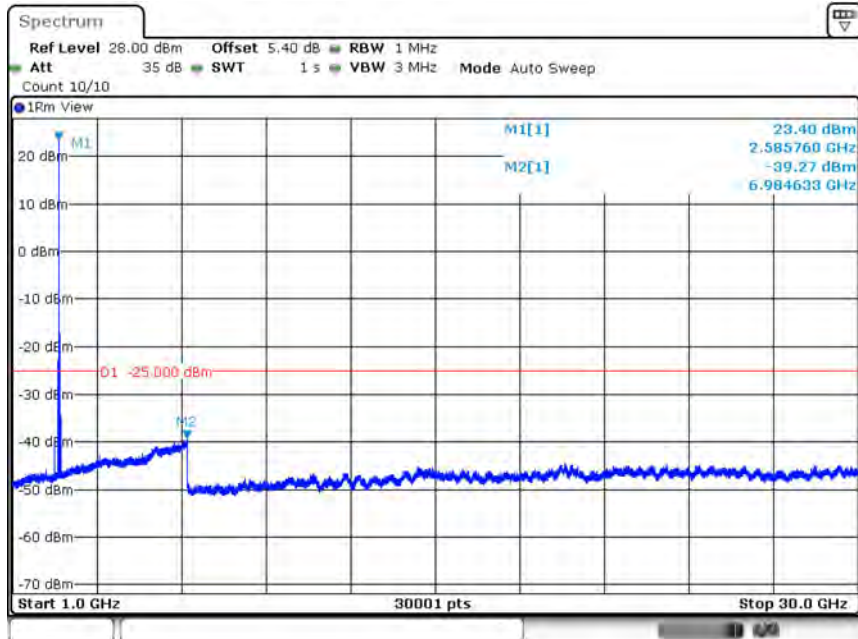


Date: 22.OCT.2020 00:55:56



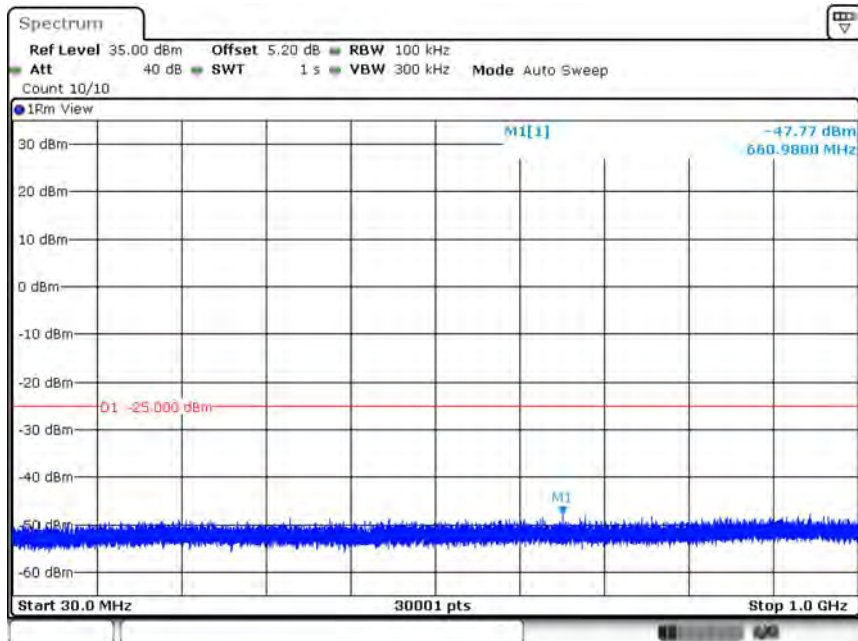
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 00:56:13

Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz

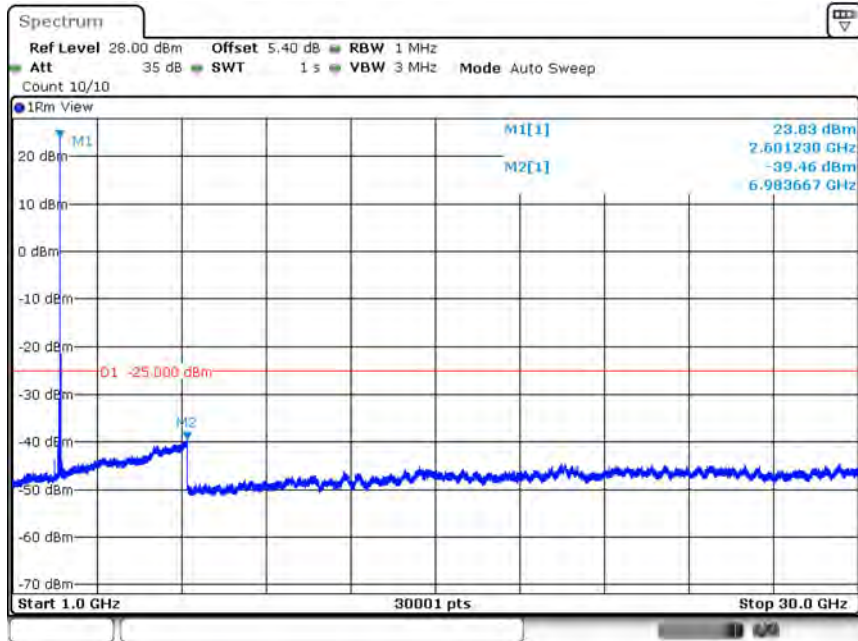


Date: 22.OCT.2020 00:57:14



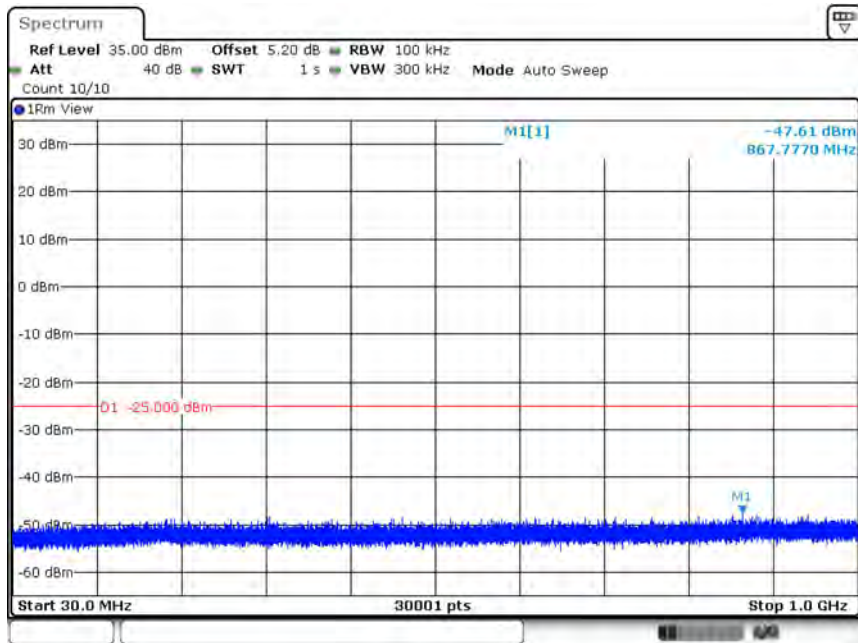
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 00:57:32

Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



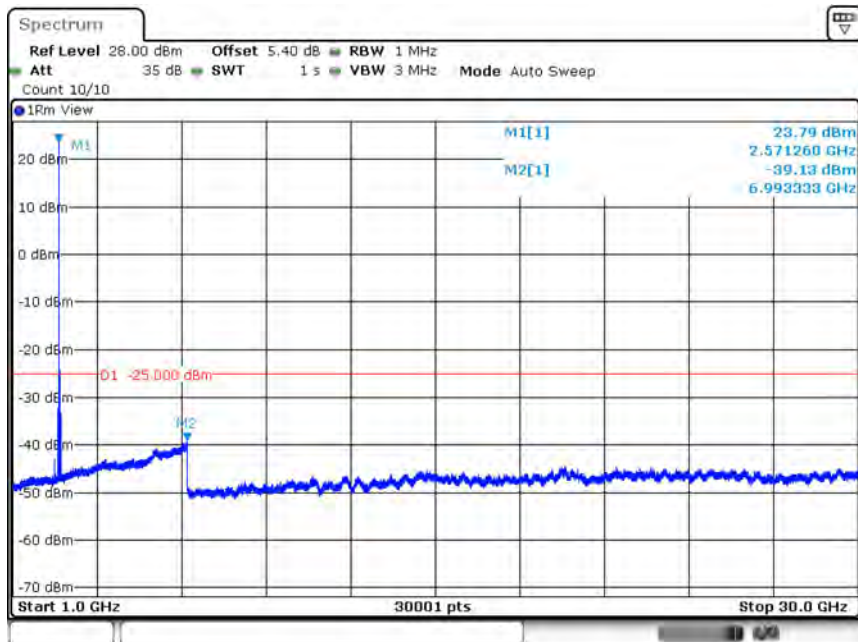
Date: 22.OCT.2020 00:55:17



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

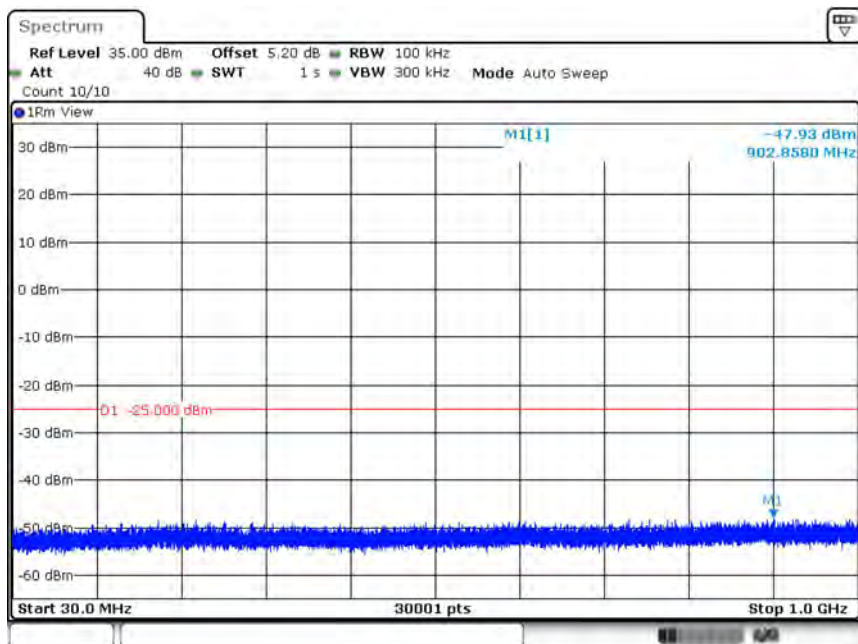


Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 00:55:34

Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz

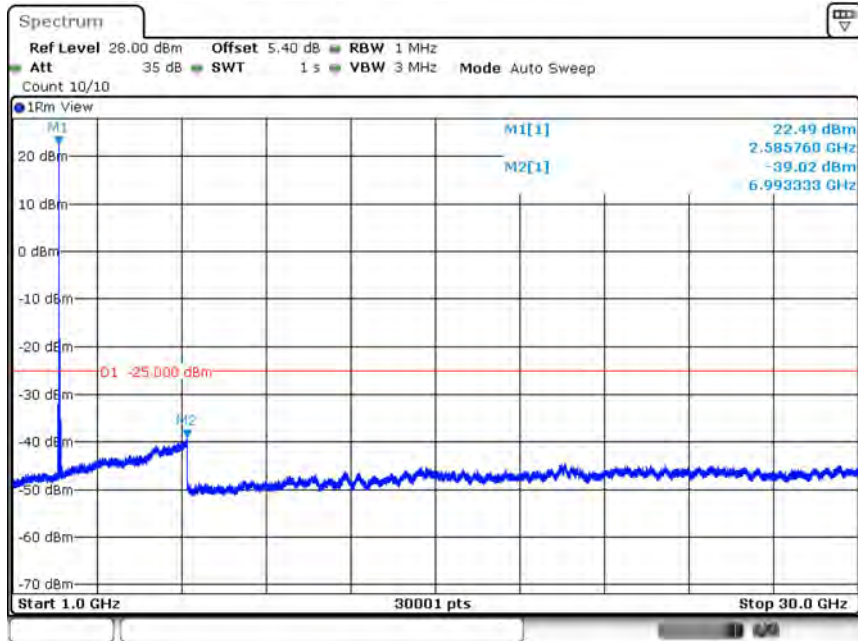


Date: 22.OCT.2020 00:56:35



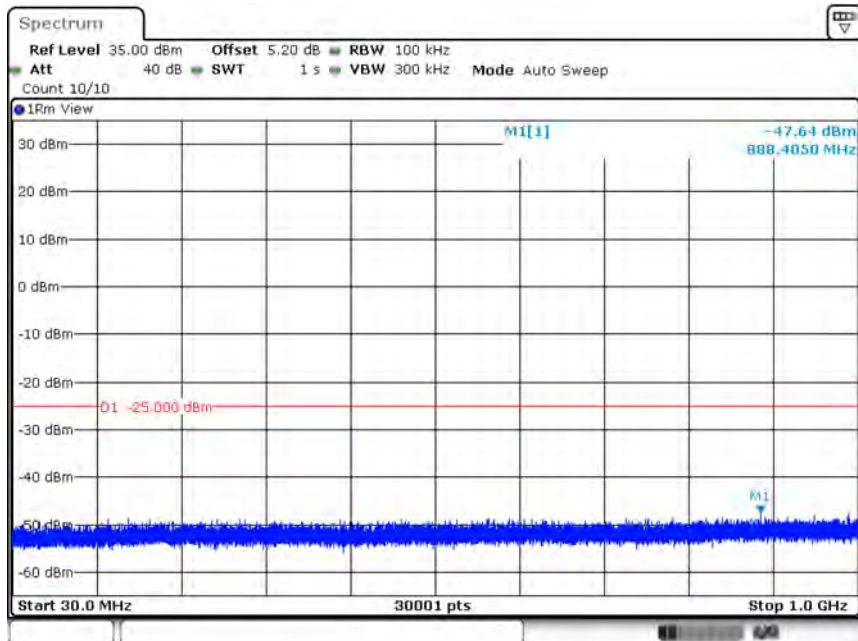
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 00:56:52

Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



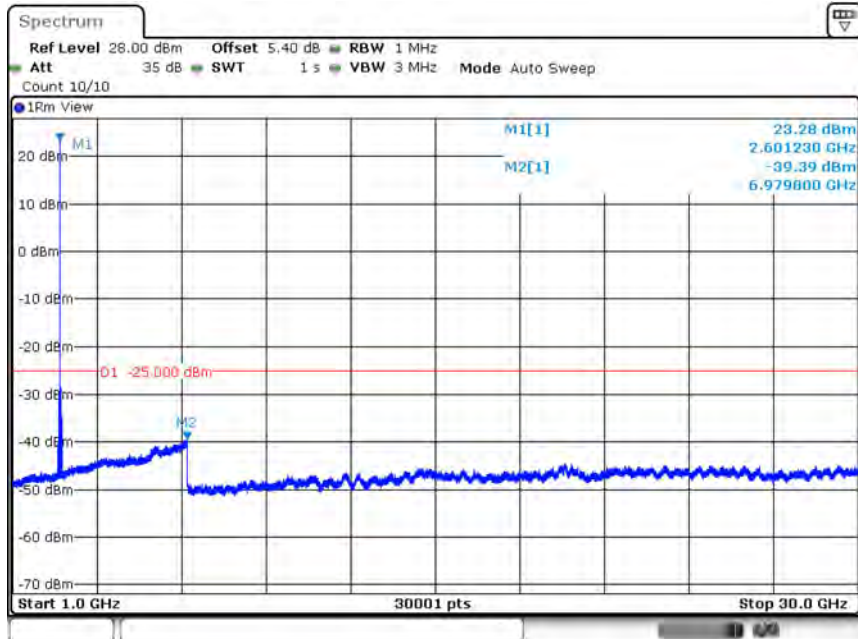
Date: 22.OCT.2020 00:57:53



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

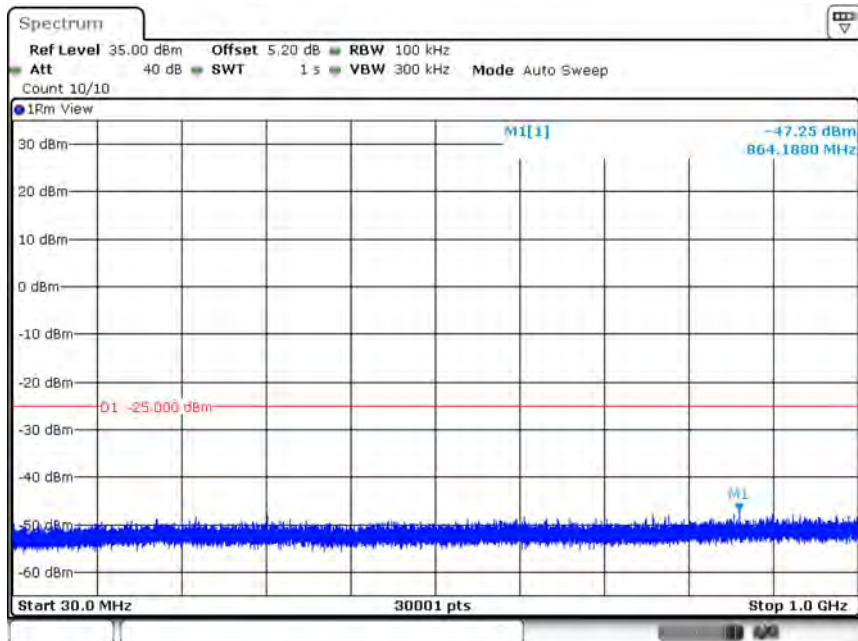


Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 00:58:10

Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz

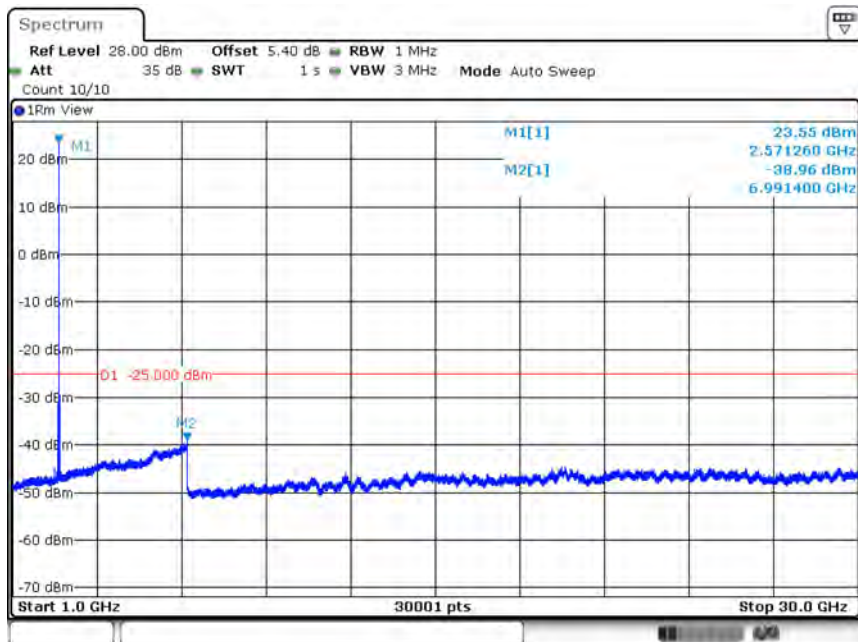


Date: 22.OCT.2020 11:55:42



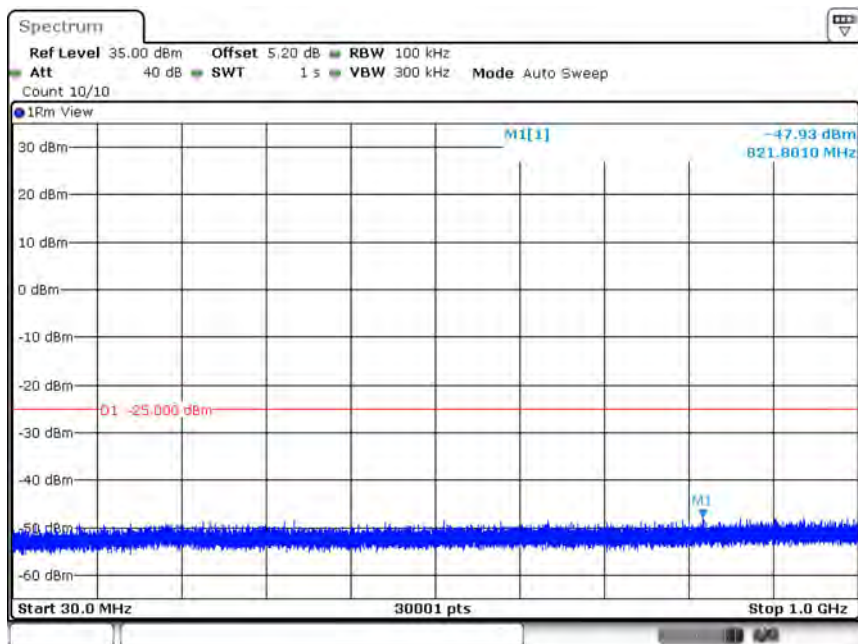
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 11:56:00

Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz

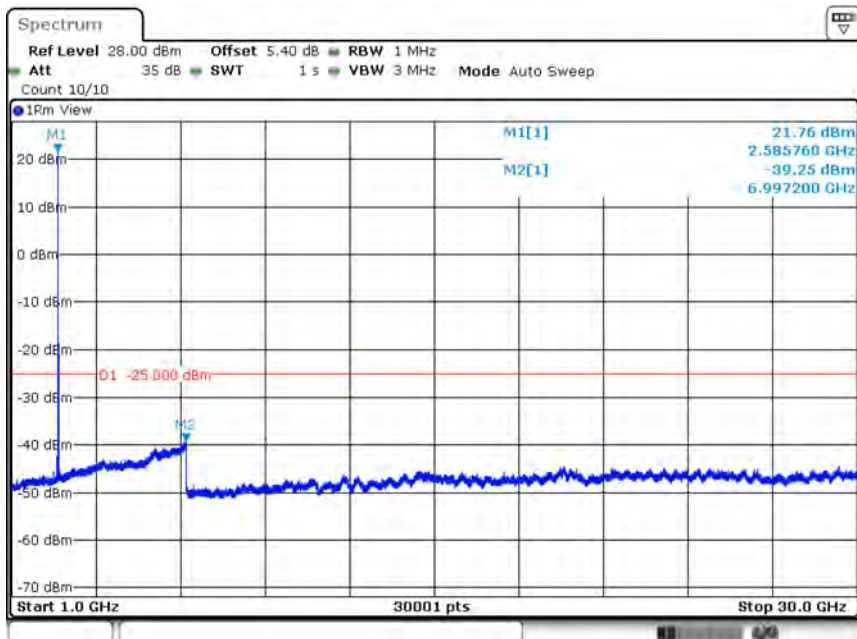


Date: 22.OCT.2020 11:56:22



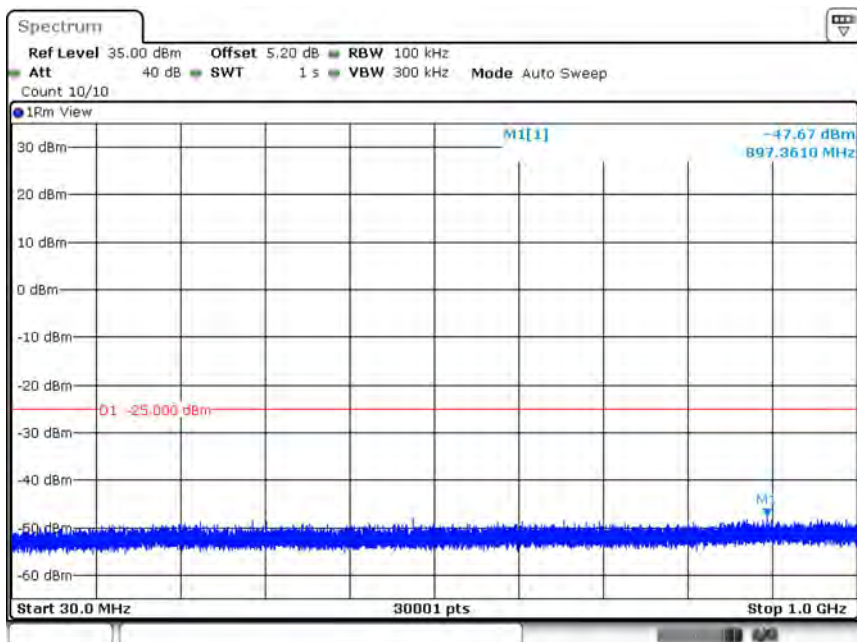
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 22.OCT.2020 11:56:39

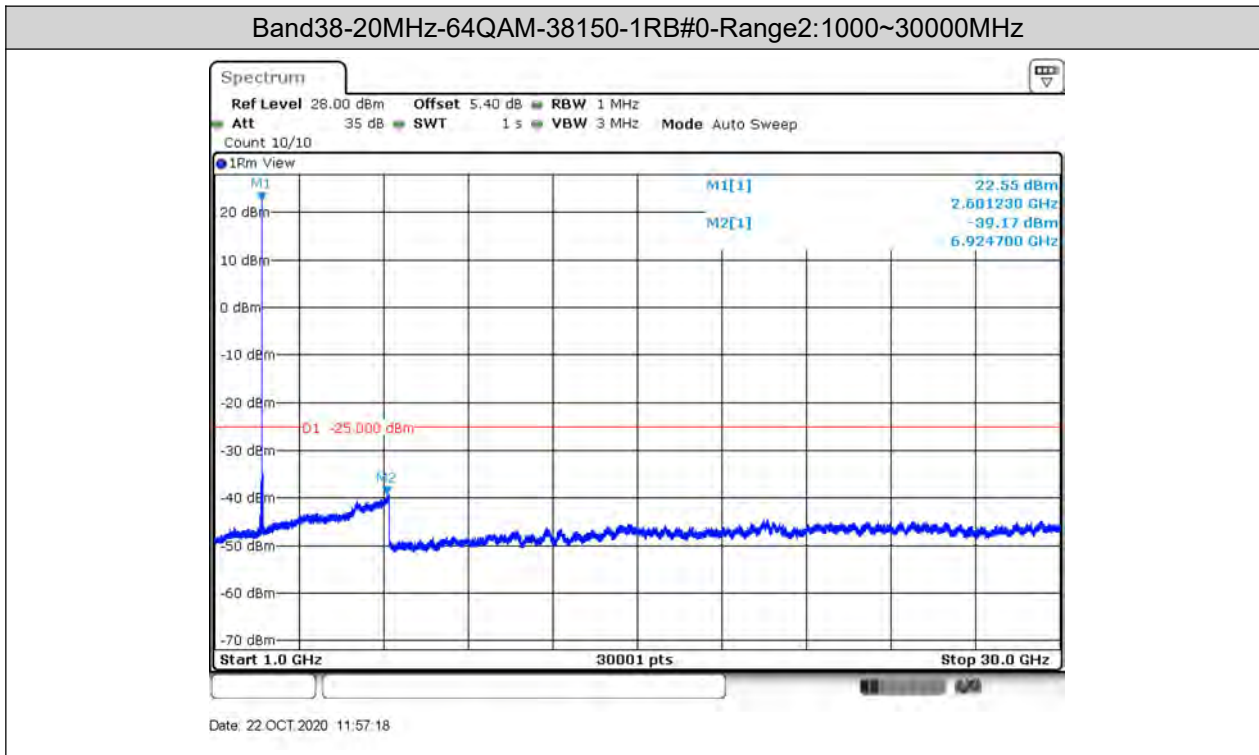
Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 11:57:01



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



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

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

Firstly Supply:

7.1 Test Band = LTE_38_TM1

7.1.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8232	-62.07	-25.00	37.07	Horizontal
2	77.8234	-74.52	-25.00	49.52	Horizontal
3	232.3521	-67.89	-25.00	42.89	Horizontal
4	5142.0714	-57.37	-25.00	32.37	Horizontal
5	9322.2107	-52.14	-25.00	27.14	Horizontal
6	16382.946	-43.95	-25.00	18.95	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-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

7.2 Test Band = LTE_38_TM1

7.2.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6790	-70.74	-25.00	45.74	Vertical
2	110.1745	-64.83	-25.00	39.83	Vertical
3	375.8708	-67.07	-25.00	42.07	Vertical
4	5142.0714	-52.05	-25.00	27.05	Vertical
5	10665.755	-51.25	-25.00	26.25	Vertical
6	17996.499	-39.84	-25.00	14.84	Vertical



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



7.3 Test Band = LTE_38_TM1

7.3.1 Test Channel = Middle Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2526	-63.42	-25.00	38.42	Horizontal
2	113.9577	-74.78	-25.00	49.78	Horizontal
3	239.9185	-68.03	-25.00	43.03	Horizontal
4	5172.0724	-56.87	-25.00	31.87	Horizontal
5	9965.2322	-52.77	-25.00	27.77	Horizontal
6	16388.446	-43.75	-25.00	18.75	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-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



7.4 Test Band = LTE_38_TM1

7.4.1 Test Channel = Middle Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6790	-66.21	-25.00	41.21	Vertical
2	110.2230	-63.72	-25.00	38.72	Vertical
3	462.1566	-66.86	-25.00	41.86	Vertical
4	5172.0724	-53.91	-25.00	28.91	Vertical
5	10716.757	-51.47	-25.00	26.47	Vertical
6	17991.499	-40.53	-25.00	15.53	Vertical



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

7.5 Test Band = LTE_38_TM1

7.5.1 Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.4951	-62.87	-25.00	37.87	Horizontal
2	230.1695	-67.18	-25.00	42.18	Horizontal
3	1591.3183	-44.14	-25.00	19.14	Horizontal
4	5202.5734	-60.80	-25.00	35.80	Horizontal
5	10006.233	-52.31	-25.00	27.31	Horizontal
6	16399.446	-43.96	-25.00	18.96	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-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.



7.6 Test Band = LTE_38_TM1

7.6.1 Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.8746	-62.49	-25.00	37.49	Vertical
2	112.2601	-63.85	-25.00	38.85	Vertical
3	1773.7548	-42.07	-25.00	17.07	Vertical
4	5202.0734	-55.04	-25.00	30.04	Vertical
5	14484.882	-47.54	-25.00	22.54	Vertical
6	17994.999	-40.56	-25.00	15.56	Vertical



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



Secondly Supply:

7.7 Test Band = LTE_38_TM1

7.7.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.5735	-63.65	-25.00	38.65	Horizontal
2	582.4426	-63.11	-25.00	38.11	Horizontal
3	1808.1616	-42.68	-25.00	17.68	Horizontal
4	5142.0714	-60.29	-25.00	35.29	Horizontal
5	7472.1491	-56.18	-25.00	31.18	Horizontal
6	16379.946	-43.39	-25.00	18.39	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-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



7.8 Test Band = LTE_38_TM1

7.8.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	78.7449	-55.50	-25.00	30.50	Vertical
2	584.2857	-63.32	-25.00	38.32	Vertical
3	1724.1448	-43.62	-25.00	18.62	Vertical
4	5142.0714	-57.97	-25.00	32.97	Vertical
5	14469.382	-47.19	-25.00	22.19	Vertical
6	17999.500	-39.15	-25.00	14.15	Vertical

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.
- 3 all modulation and all Bandwidth had been tested, but 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-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

8 Frequency Stability

8.1 Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-7.60	-0.002946	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	32.30	0.012519	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-2.90	-0.001118	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-3.30	-0.001272	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-3.50	-0.001349	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-1.30	-0.000498	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-4.10	-0.001571	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-1.30	-0.000504	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-1.30	-0.000504	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-6.20	-0.002389	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-4.80	-0.001850	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-8.30	-0.003180	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-3.80	-0.001456	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	12.70	0.004922	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-4.00	-0.001550	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-7.10	-0.002736	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-2.20	-0.000848	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-3.90	-0.001494	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.90	-0.003027	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-7.10	-0.002720	±2.5	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. Shenzhen Branch Inspection & Testing Services 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



8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-2.00	-0.000775	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-3.90	-0.001512	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-2.30	-0.000891	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-2.70	-0.001047	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-2.90	-0.001124	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-5.90	-0.002287	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-1.90	-0.000732	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-3.60	-0.001387	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-8.80	-0.003391	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-2.50	-0.000958	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-1.50	-0.000575	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-3.70	-0.001418	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-4.60	-0.001762	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-4.50	-0.001744	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-1.60	-0.000620	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-8.40	-0.003256	±2.5	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. Shenzhen Branch Inspection & Testing Services 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



Band38	20MHz	16QAM	37850	100RB#0	NV	30	-2.50	-0.000969	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-1.90	-0.000736	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-6.50	-0.002505	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-4.90	-0.001888	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-2.60	-0.001002	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-7.50	-0.002890	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-6.20	-0.002375	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-8.10	-0.003103	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-5.20	-0.001992	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-7.20	-0.002791	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-10	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-4.40	-0.001705	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-7.50	-0.002907	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-6.10	-0.002364	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-0.50	-0.000193	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-10	-3.20	-0.001233	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-4.60	-0.001773	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-3.30	-0.001272	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-2.70	-0.001040	±2.5	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. Shenzhen Branch Inspection & Testing Services Laboratory
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



Band38	20MHz	64QAM	38000	100RB#0	NV	40	-3.90	-0.001503	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-6.30	-0.002428	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-8.20	-0.003142	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-10	-3.20	-0.001226	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	0.40	0.000153	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-2.60	-0.000996	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-4.90	-0.001877	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-2.20	-0.000843	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-1.50	-0.000575	±2.5	PASS

The End



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.