



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.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



CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER.....4

1.1. TEST RESULT.....4

2. PEAK-TO-AVERAGE RATIO (CCDF).....12

2.1. TEST RESULT.....12

2.2. TEST PLOTS.....12

3. MODULATION CHARACTERISTICS.....17

3.1. TEST MODE = LTE /TM1 20MHZ.....17

3.1.1. TEST CHANNEL = MCH.....17

3.2. TEST MODE = LTE /TM2 20MHZ.....18

3.2.1. TEST CHANNEL = MCH.....18

3.3. TEST MODE = LTE /TM3 20MHZ.....19

3.3.1. TEST CHANNEL = MCH.....19

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....20

4.1. TEST RESULT.....20

4.2. TEST PLOTS.....21

5. BAND EDGE COMPLIANCE.....40

5.1. TEST PLOTS.....40

6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....65

6.1. TEST PLOTS.....65

7. FIELD STRENGTH OF SPURIOUS RADIATION.....75

7.1. TEST MODE =LTE/TM1 20MHZ(UP ANTENNA).....75

7.1.1. TEST CHANNEL = LCH.....75

7.1.2. TEST CHANNEL = MCH.....75

7.1.3. TEST CHANNEL = HCH.....76

7.2. TEST MODE =LTE/TM1 20MHZ(DOWN ANTENNA).....77

7.2.1. TEST CHANNEL = LCH.....77

7.2.2. TEST CHANNEL = MCH.....77

7.2.3. TEST CHANNEL = HCH.....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

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



8. FREQUENCY STABILITY..... 79

8.1. FREQUENCY VS VOLTAGE..... 79

8.2. FREQUENCY VS TEMPERATURE..... 79



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

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.57	21.56	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.54	21.53	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.11	22.1	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.80	20.79	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.72	20.71	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.58	20.57	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.79	20.78	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.66	21.65	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.85	21.84	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.11	22.1	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.62	20.61	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.60	20.59	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.66	20.65	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.90	20.89	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.93	21.92	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.57	21.56	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.09	22.08	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.61	20.6	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.60	20.59	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.88	20.87	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.76	20.75	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.18	20.17	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.05	20.04	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.49	20.48	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.16	19.15	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#6	19.89	18.88	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.07	19.06	33.00	PASS



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

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

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



Band38	5MHz	64QAM	37775	25RB#0	19.96	18.95	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.18	20.17	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.12	20.11	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.63	20.62	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.00	18.99	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#6	19.98	18.97	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#0	20.09	19.08	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.27	19.26	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.35	20.34	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.09	20.08	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.49	20.48	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#0	19.99	18.98	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#6	19.91	18.9	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#13	20.03	19.02	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.16	19.15	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.92	20.91	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.85	20.84	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.07	21.06	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.89	19.88	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.59	19.58	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.73	19.72	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.56	19.55	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.92	20.91	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.87	20.86	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.36	21.35	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.65	19.64	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.75	19.74	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.84	19.83	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.87	19.86	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.03	21.02	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.62	20.61	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.06	21.05	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.64	19.63	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 Testing Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38	5MHz	16QAM	38225	12RB#6	20.76	19.75	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.64	19.63	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.87	19.86	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.65	21.64	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.56	21.55	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.18	22.17	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.83	20.82	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.80	20.79	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.58	20.57	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.87	20.86	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.75	21.74	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.85	21.84	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.17	22.16	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.67	20.66	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.64	20.63	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.79	20.78	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.93	20.92	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.02	22.01	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.58	21.57	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.12	22.11	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.67	20.66	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.71	20.7	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.90	20.89	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.85	20.84	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.03	20.02	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.96	19.95	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.18	20.17	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#0	20.00	18.99	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	19.70	18.69	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	19.84	18.83	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.67	18.66	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.03	20.02	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.98	19.97	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.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	38000	1RB#24	21.47	20.46	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	19.76	18.75	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	19.86	18.85	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	19.95	18.94	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.98	18.97	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.14	20.13	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.73	19.72	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.17	20.16	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.75	18.74	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.87	18.86	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.75	18.74	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.98	18.97	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.94	20.93	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.86	20.85	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.15	21.14	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.90	19.89	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.51	19.5	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.87	19.86	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.67	19.66	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.92	20.91	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.90	20.89	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.41	21.4	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.69	19.68	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.79	19.78	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.84	19.83	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.97	19.96	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.15	21.14	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.75	20.74	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.20	21.19	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.75	19.74	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.78	19.77	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.78	19.77	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.89	19.88	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
 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	1RB#74	22.78	21.77	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.60	21.59	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.19	22.18	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.96	20.95	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.82	20.81	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.67	20.66	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.91	20.9	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.87	21.86	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.92	21.91	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.19	22.18	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.79	20.78	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.71	20.7	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.91	20.9	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.94	20.93	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.07	22.06	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.64	21.63	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.17	22.16	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.80	20.79	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.82	20.81	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.98	20.97	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.99	20.98	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.05	20.04	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.97	19.96	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.26	20.25	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#0	20.01	19	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#18	19.62	18.61	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.98	18.97	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	19.78	18.77	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.03	20.02	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.01	20	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.52	20.51	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#39	19.80	18.79	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#0	19.90	18.89	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 Testing Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38	15MHz	64QAM	38000	36RB#18	19.95	18.94	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.08	19.07	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.26	20.25	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.86	19.85	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.31	20.3	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#18	19.86	18.85	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#0	19.89	18.88	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.89	18.88	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.00	18.99	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.95	20.94	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.92	20.91	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.24	21.23	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.04	20.03	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.64	19.63	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.90	19.89	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.74	19.73	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.05	21.04	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.97	20.96	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.50	21.49	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.81	19.8	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.84	19.83	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.91	19.9	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.06	20.05	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.18	21.17	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.86	20.85	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.27	21.26	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.75	19.74	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.80	19.79	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.81	19.8	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.94	19.93	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.86	21.85	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.67	21.66	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.27	22.26	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.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	37850	50RB#25	21.97	20.96	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.94	20.93	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.67	20.66	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.92	20.91	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.99	21.98	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.97	21.96	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.33	22.32	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.86	20.85	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.79	20.78	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.01	21	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.99	20.98	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.10	22.09	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.78	21.77	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.20	22.19	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.88	20.87	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.83	20.82	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.98	20.97	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.99	20.98	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.06	20.05	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.03	20.02	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.35	20.34	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.15	19.14	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#0	19.75	18.74	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.01	19	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.85	18.84	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.16	20.15	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.08	20.07	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.61	20.6	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	19.92	18.91	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.95	18.94	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	20.02	19.01	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.17	19.16	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.29	20.28	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.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	38150	1RB#0	20.97	19.96	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.38	20.37	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.86	18.85	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.91	18.9	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.92	18.91	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.05	19.04	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.07	21.06	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.94	20.93	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.38	21.37	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.05	20.04	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.78	19.77	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.96	19.95	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.85	19.84	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.07	21.06	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.01	21	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.52	21.51	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.89	19.88	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.87	19.86	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.98	19.97	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.16	20.15	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.24	21.23	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.98	20.97	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.38	21.37	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.88	19.87	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.80	19.79	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.92	19.91	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.05	20.04	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-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
Shenzhen Branch: 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

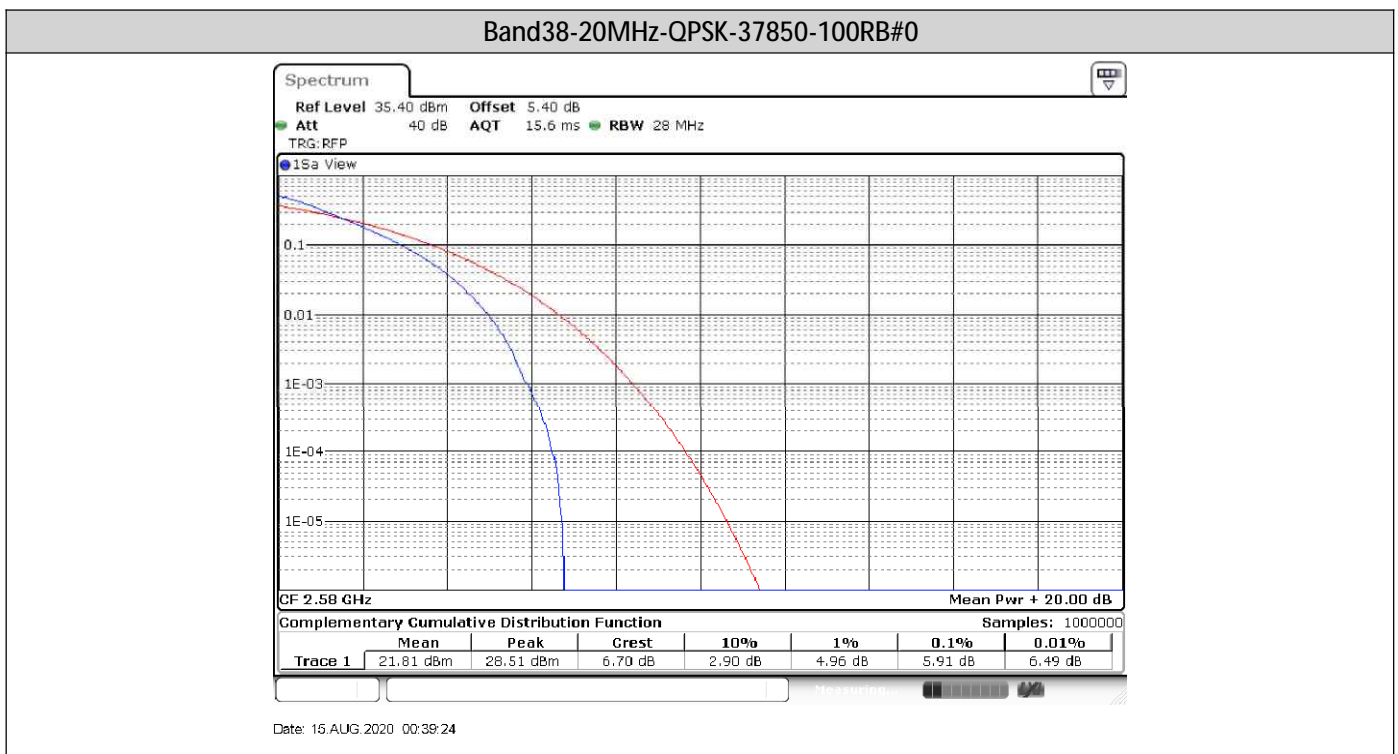


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

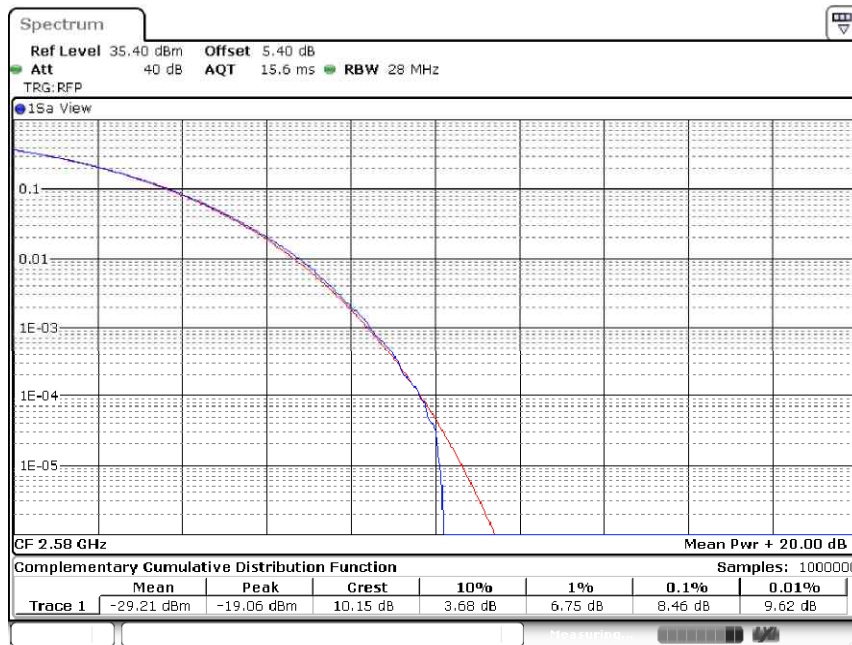
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	5.91	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.61	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.43	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.46	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.88	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.71	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.54	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.36	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.13	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-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-64QAM-37850-100RB#0



Date: 15 AUG 2020 02:47:35

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



Date: 15 AUG 2020 02:47:47



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

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



Date: 16.AUG.2020 02:47:58

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



Date: 16.AUG.2020 00:39:36



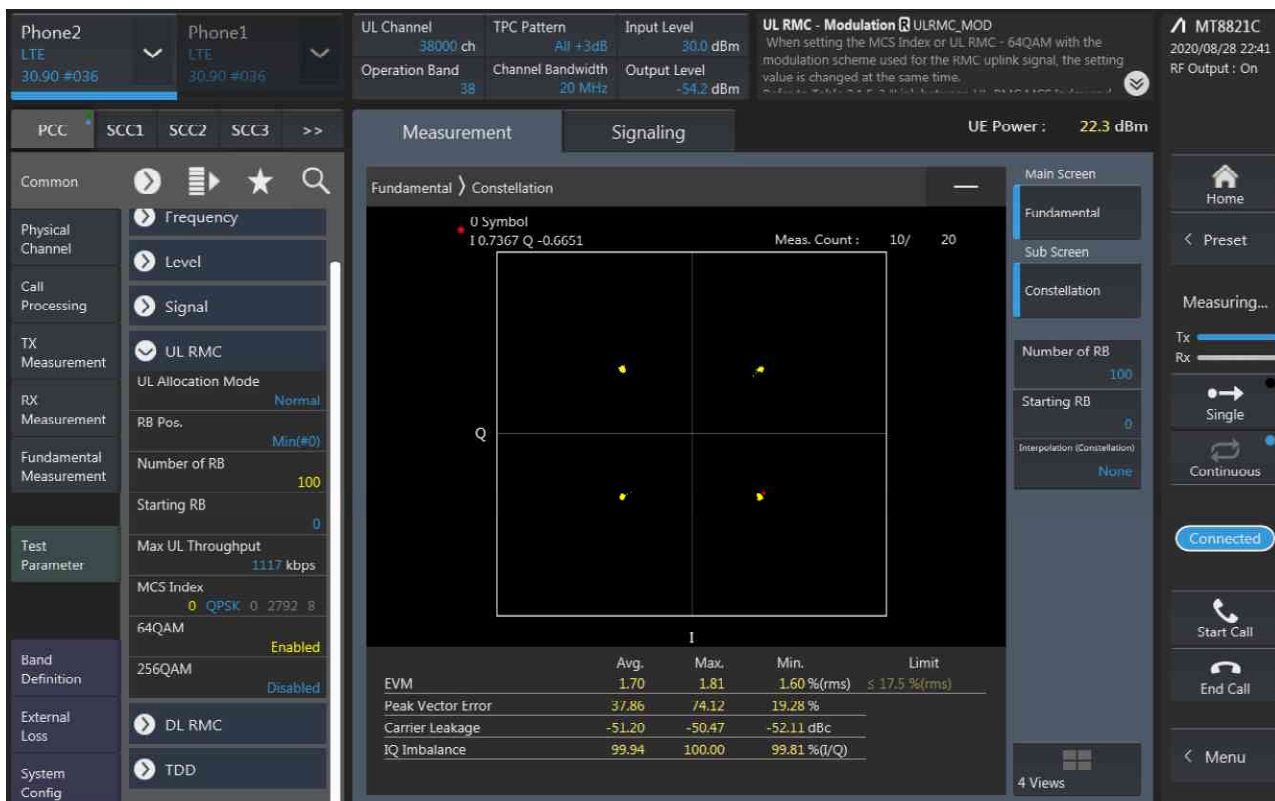
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH

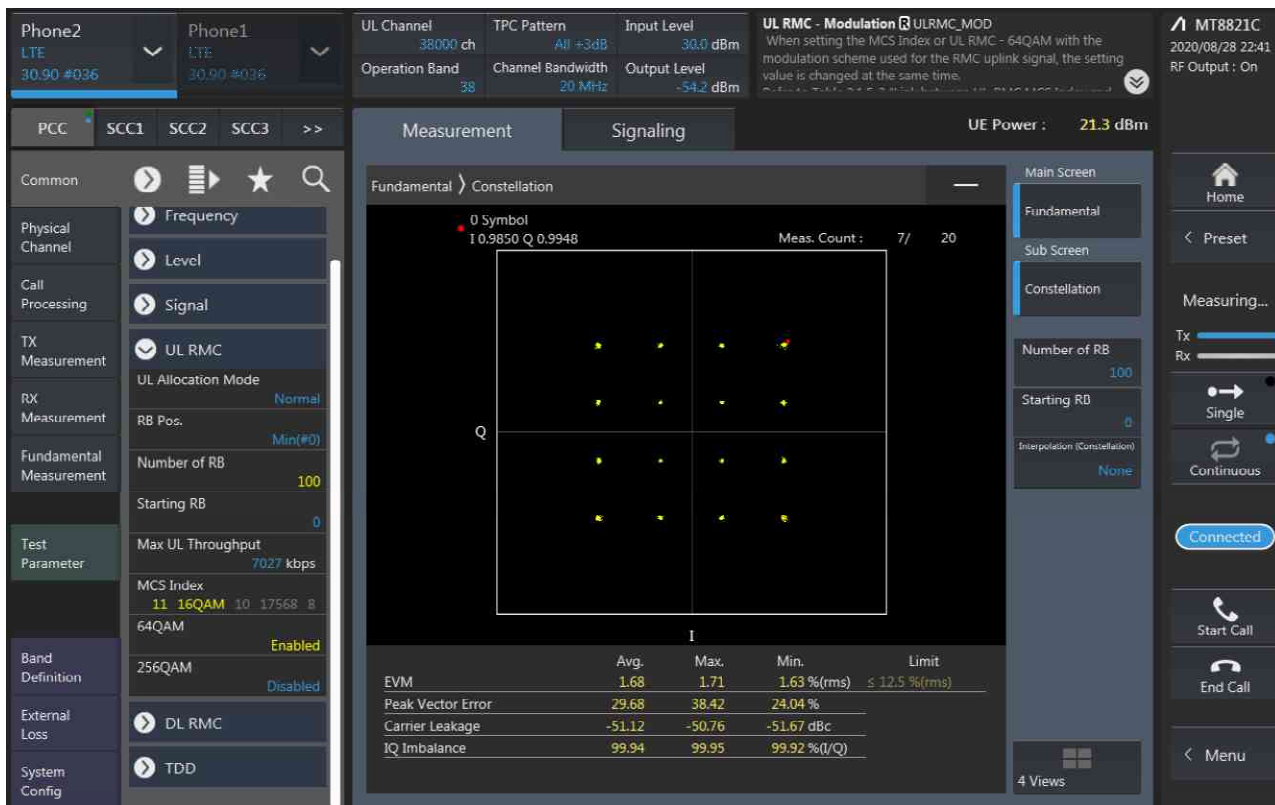


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



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



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	4.980	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.990	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	5.010	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.486	5.150	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	5.100	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.100	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.940	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.960	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.740	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.740	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.760	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.800	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.800	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.800	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.640	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.660	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.640	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.516	16.260	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	16.050	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	16.410	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.910	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	14.850	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.457	14.970	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.487	15.240	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.487	15.060	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.060	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.942	19.720	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.600	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.942	19.920	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.902	19.520	PASS



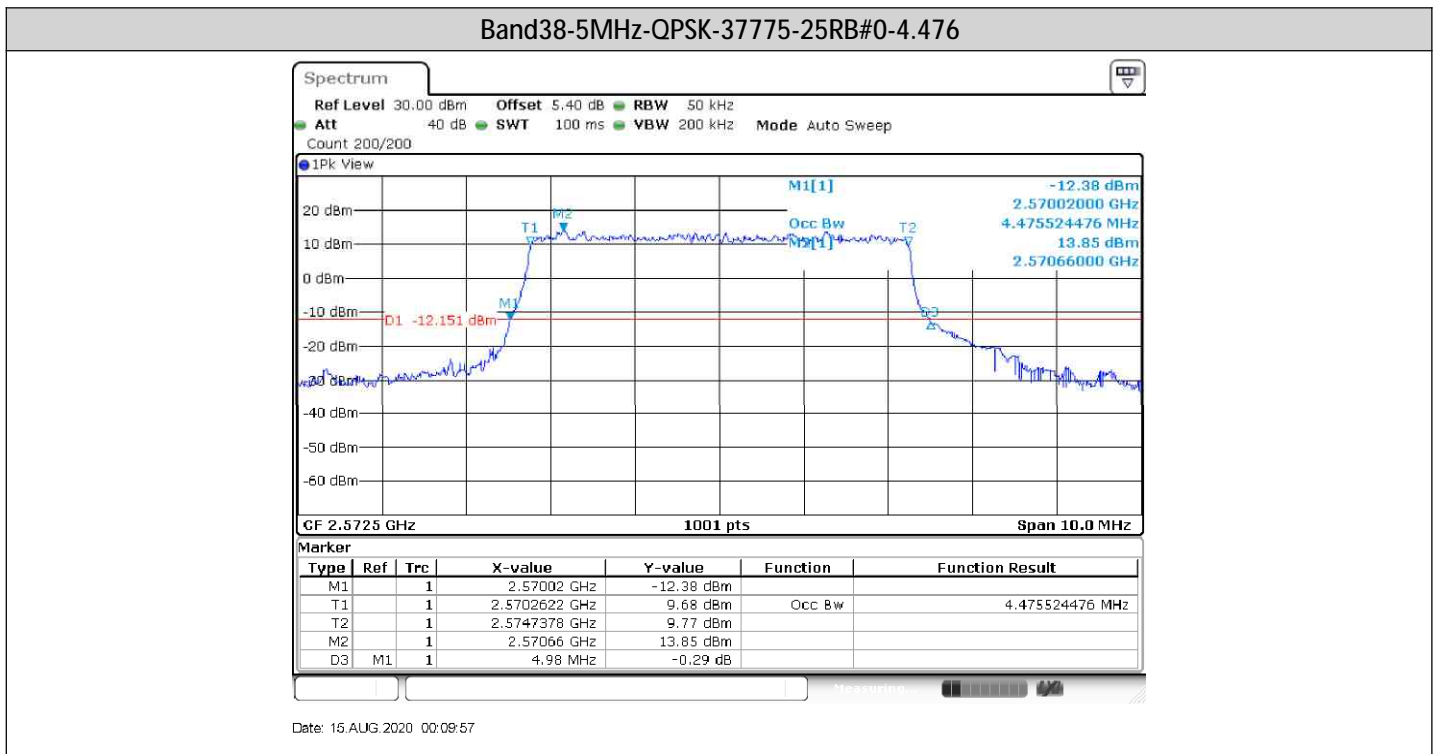
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38	20MHz	64QAM	38000	100RB#0	17.942	19.480	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.902	19.600	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.280	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.942	20.000	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.902	20.120	PASS

4.2. Test Plots

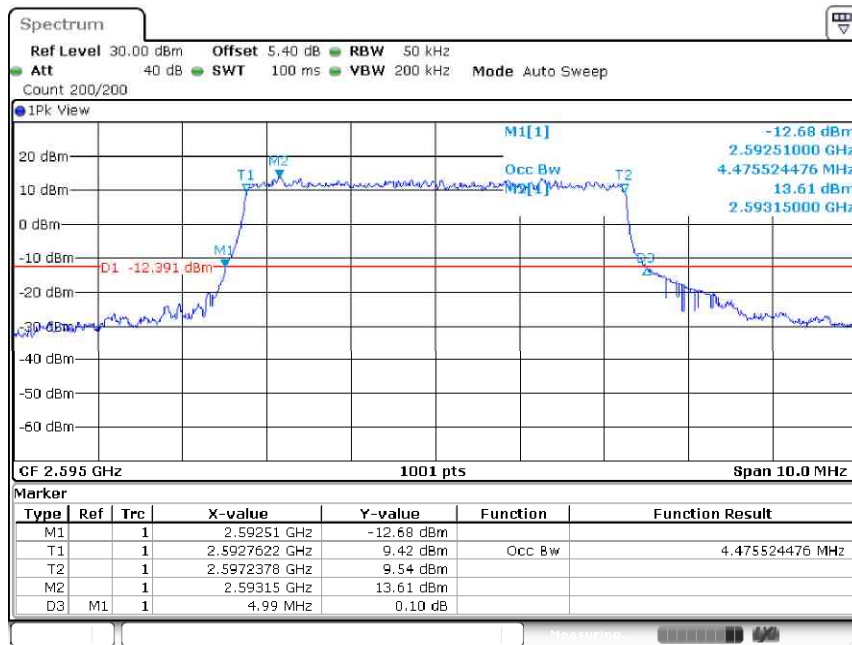


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

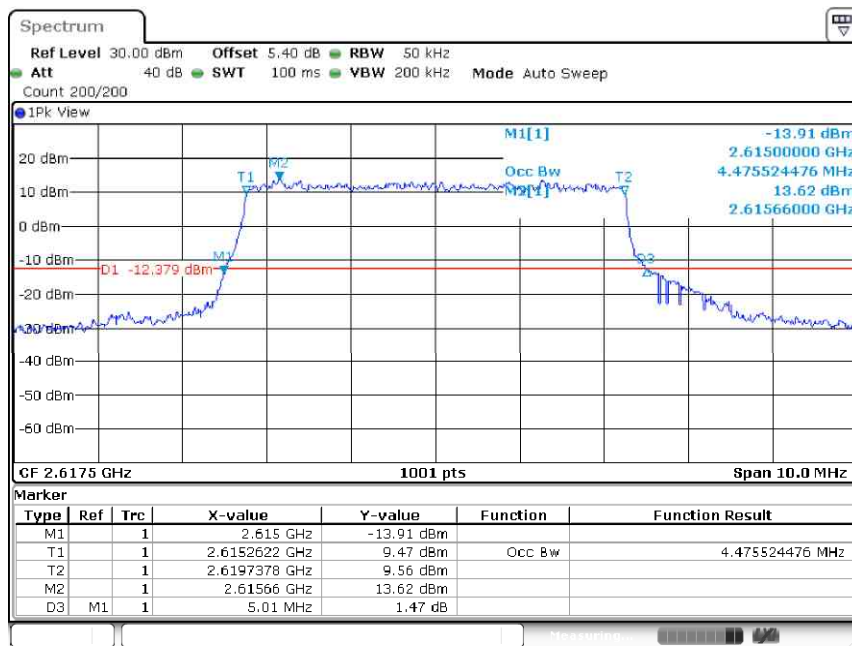


Band38-5MHz-QPSK-38000-25RB#0-4.476



Date: 15 AUG 2020 00:11:03

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



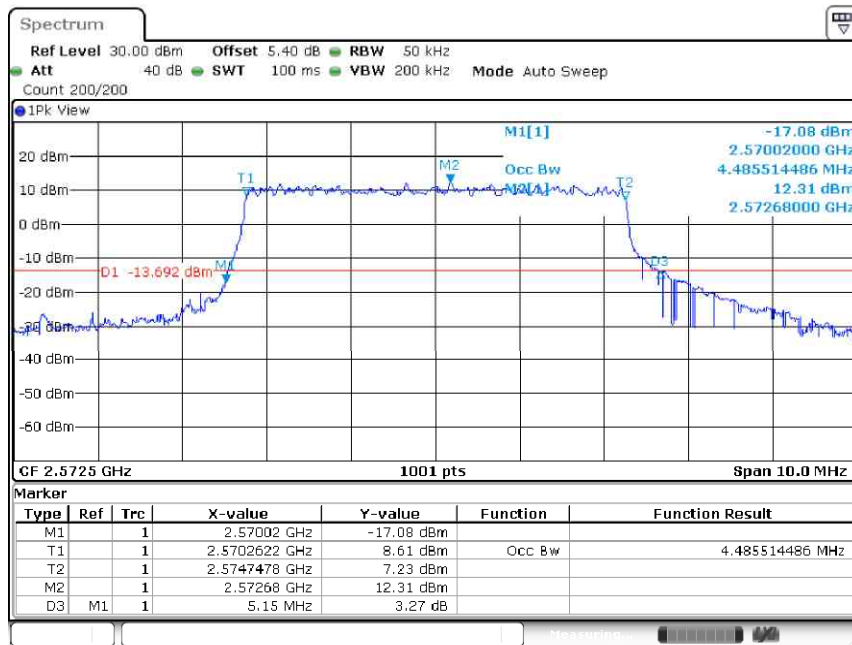
Date: 15 AUG 2020 00:12:09



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.

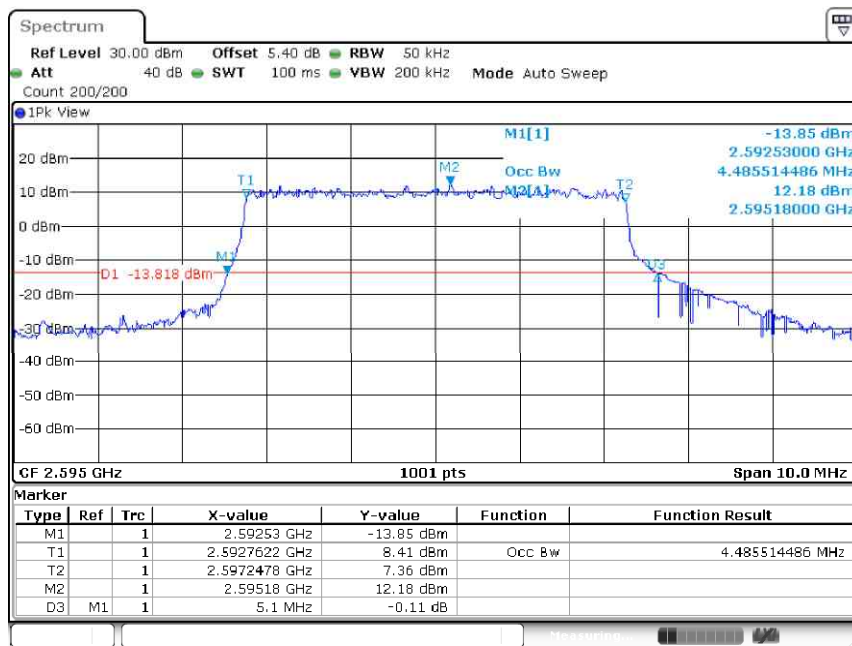


Band38-5MHz-64QAM-37775-25RB#0-4.486



Date: 15.AUG.2020 02:32:00

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



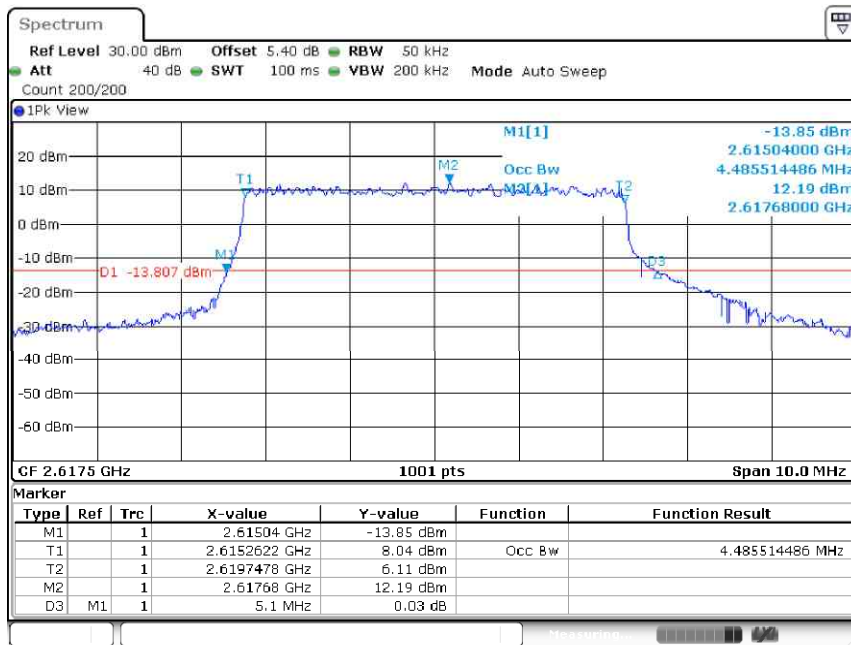
Date: 15.AUG.2020 02:32:34



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.

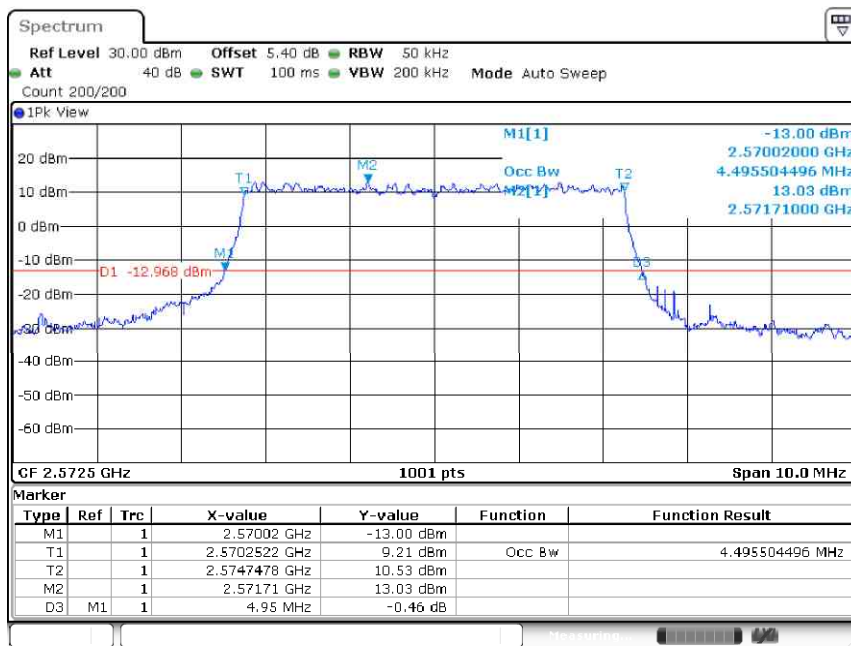


Band38-5MHz-64QAM-38225-25RB#0-4.486



Date: 15.AUG.2020 02:33:07

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



Date: 15.AUG.2020 00:10:30



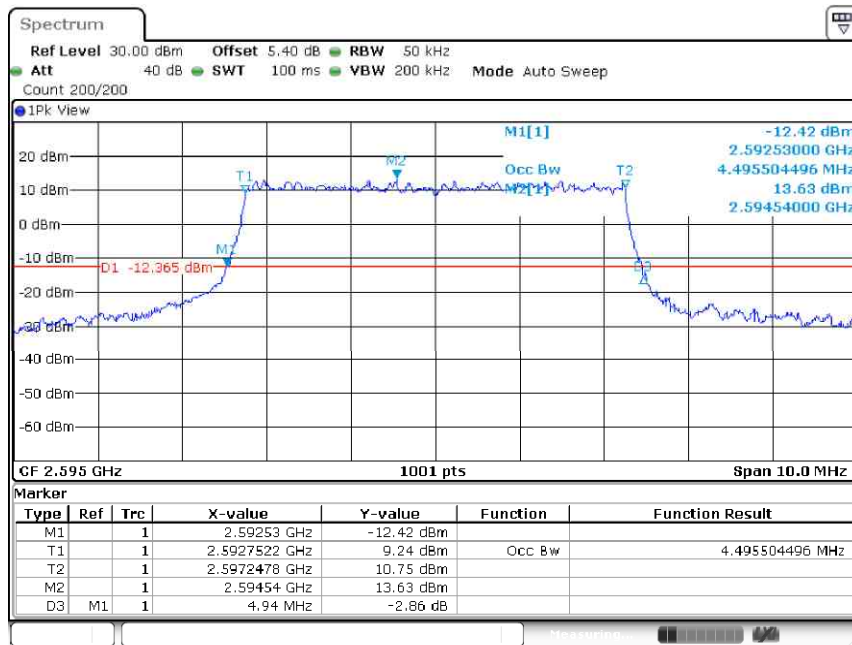
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

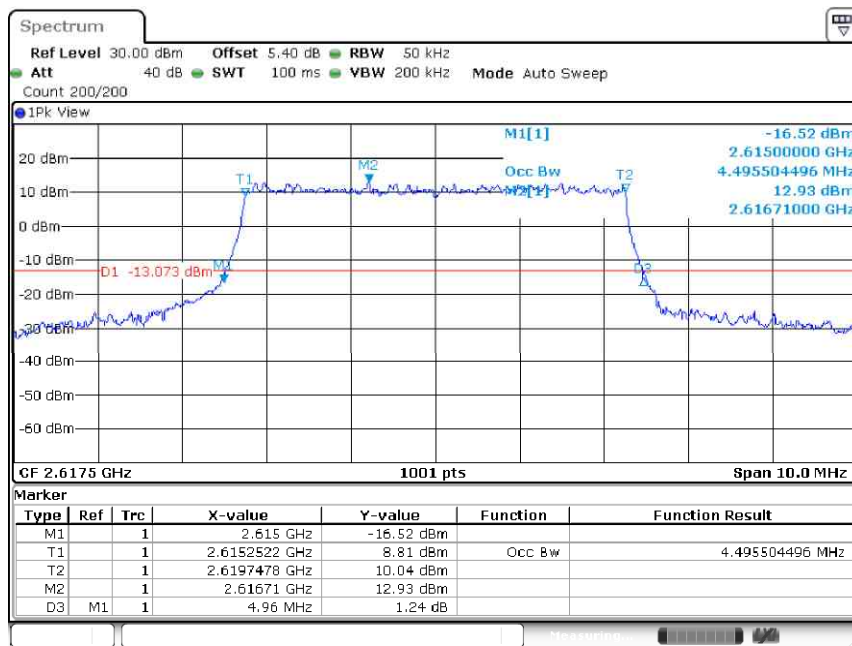


Band38-5MHz-16QAM-38000-25RB#0-4.496



Date: 15.AUG.2020 00:11:36

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



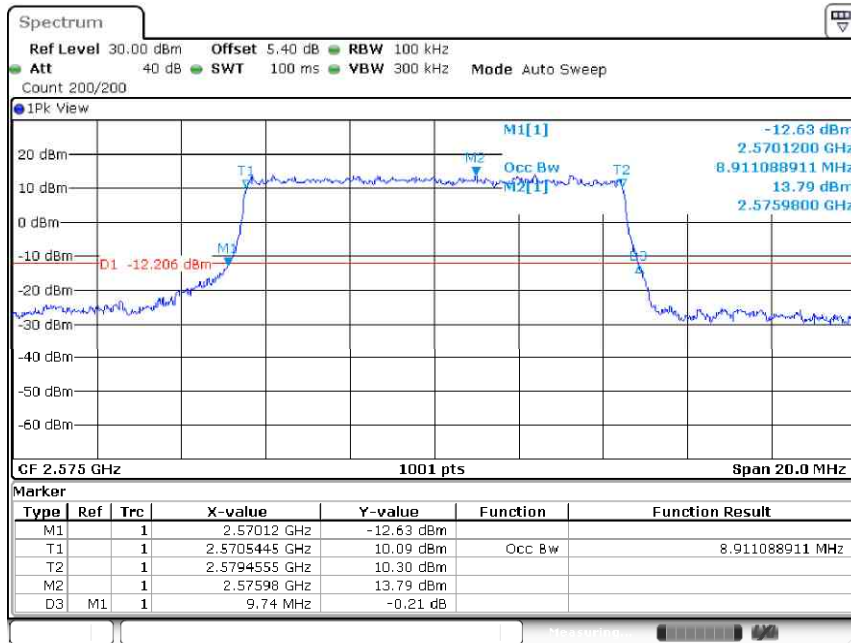
Date: 15.AUG.2020 00:12:41



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.

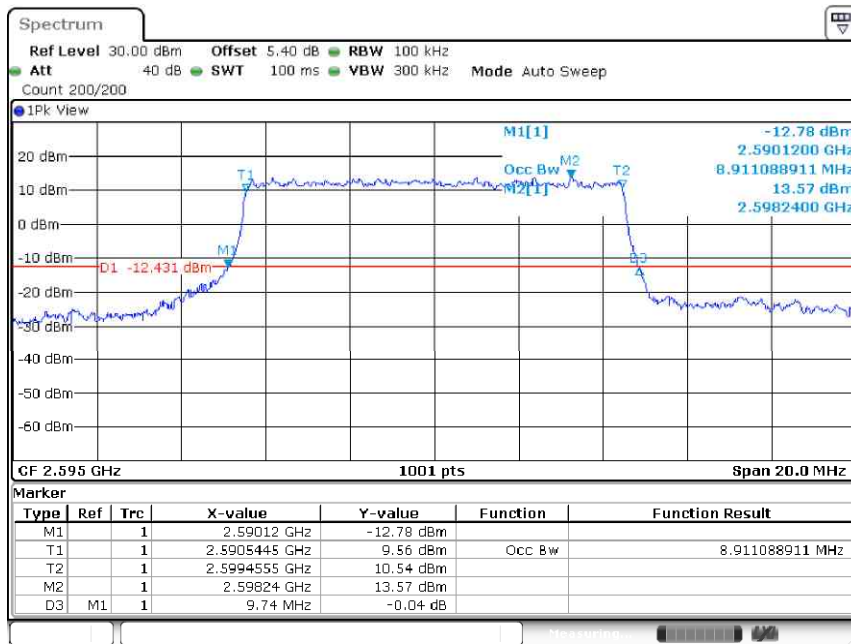


Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 15 AUG 2020 00:13:20

Band38-10MHz-QPSK-38000-50RB#0-8.911



Date: 15 AUG 2020 00:14:26



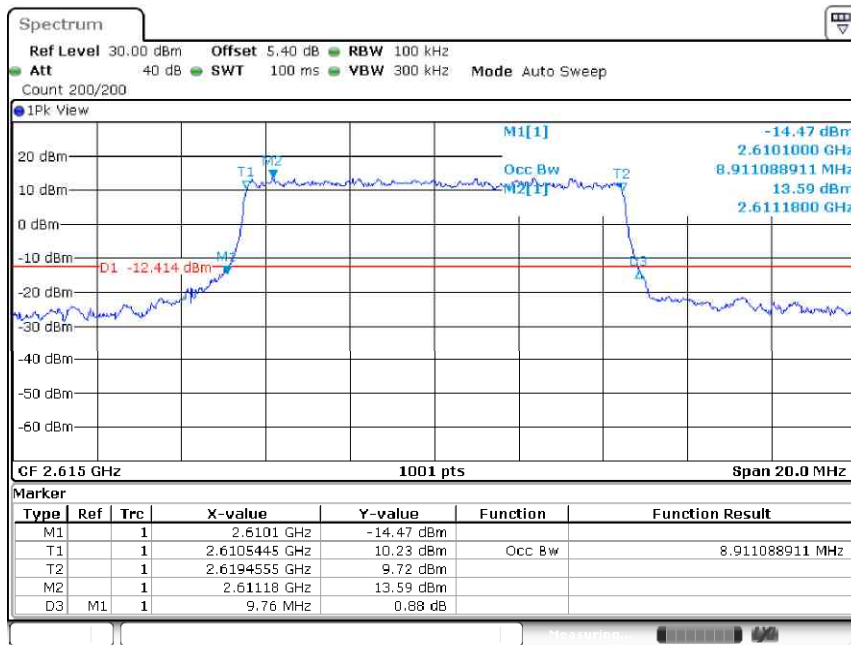
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

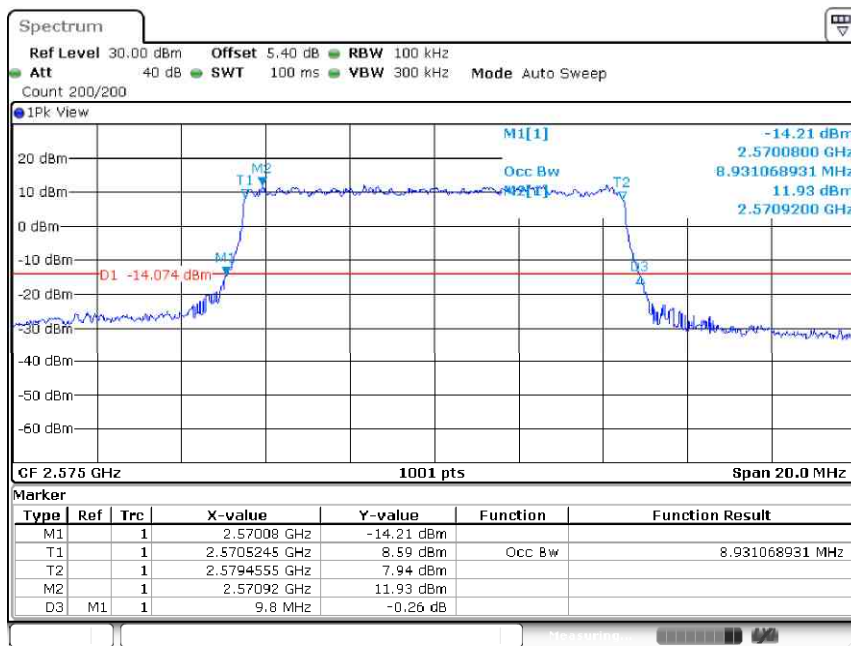


Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 15.AUG.2020 00:15:32

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



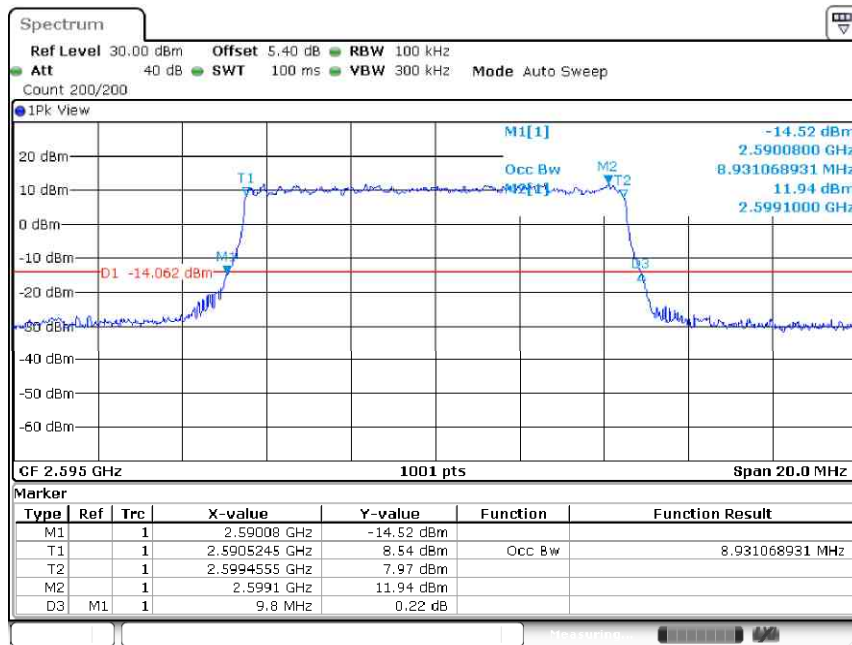
Date: 15.AUG.2020 02:33:47



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.

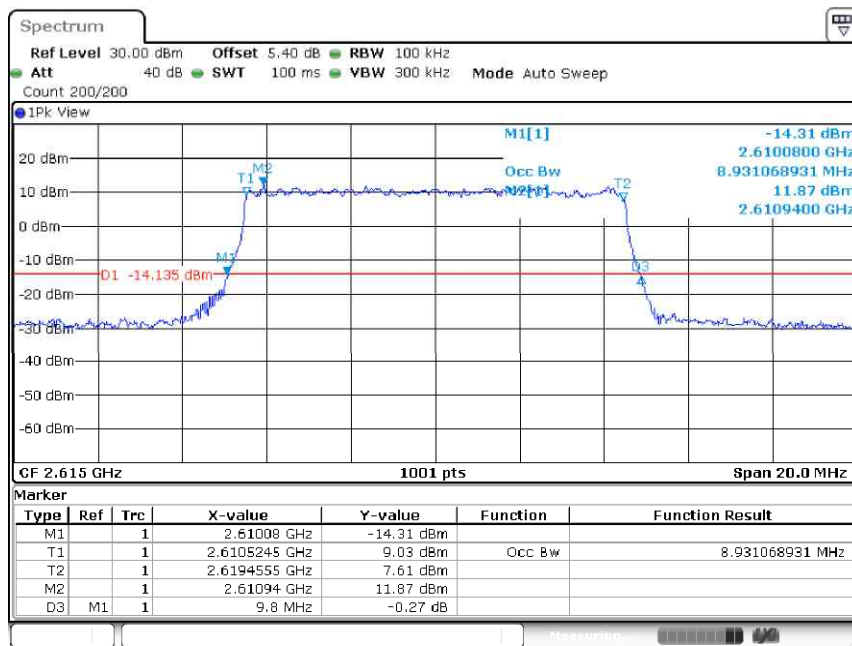


Band38-10MHz-64QAM-38000-50RB#0-8.931



Date: 15 AUG 2020 02:34:20

Band38-10MHz-64QAM-38200-50RB#0-8.931



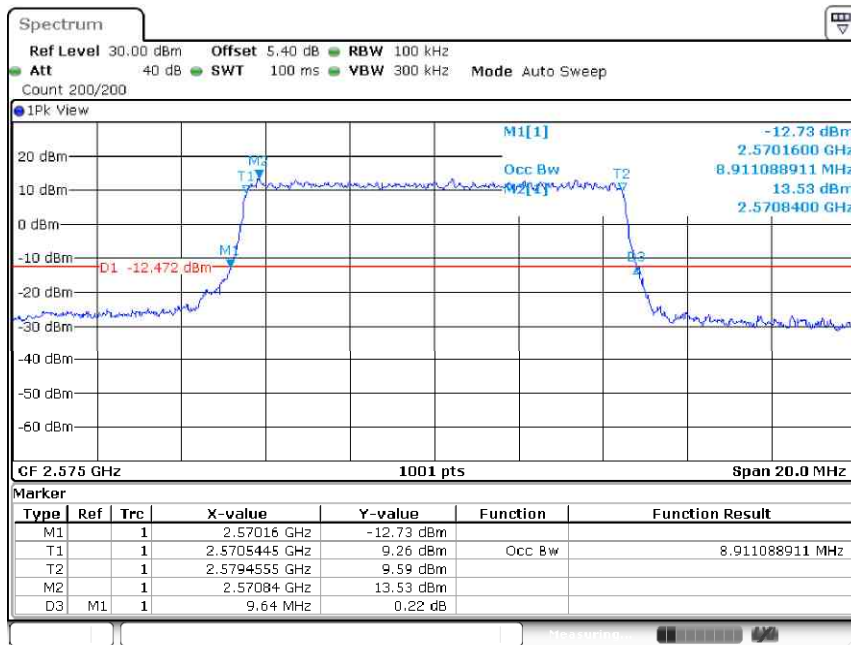
Date: 15 AUG 2020 02:34:53



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-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.

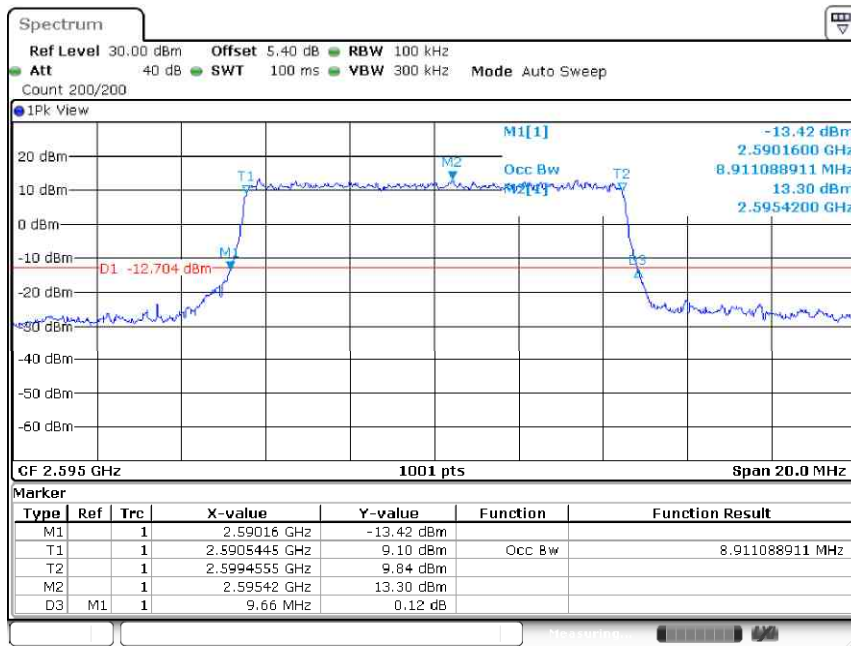


Band38-10MHz-16QAM-37800-50RB#0-8.911



Date: 15 AUG 2020 00:13:53

Band38-10MHz-16QAM-38000-50RB#0-8.911



Date: 15 AUG 2020 00:14:59



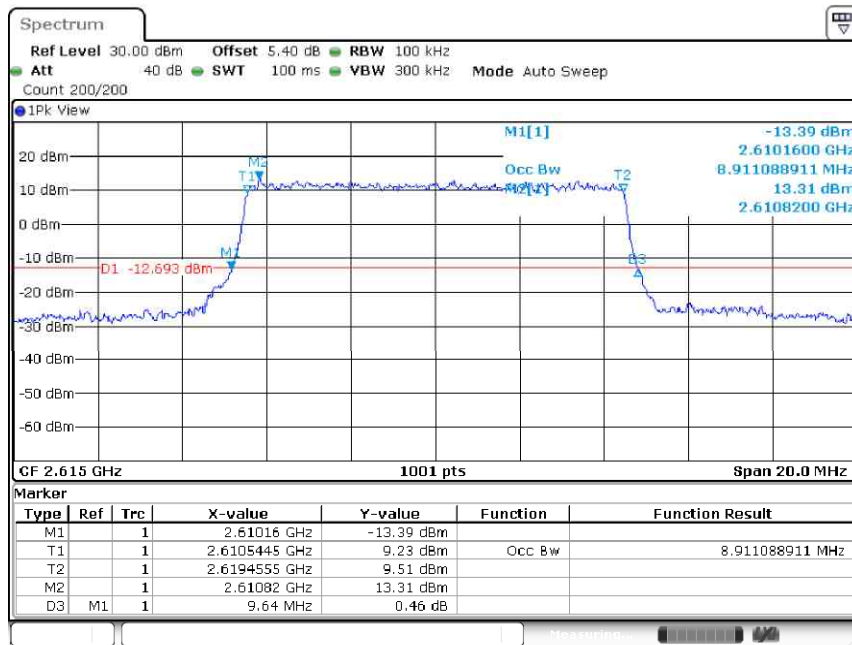
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

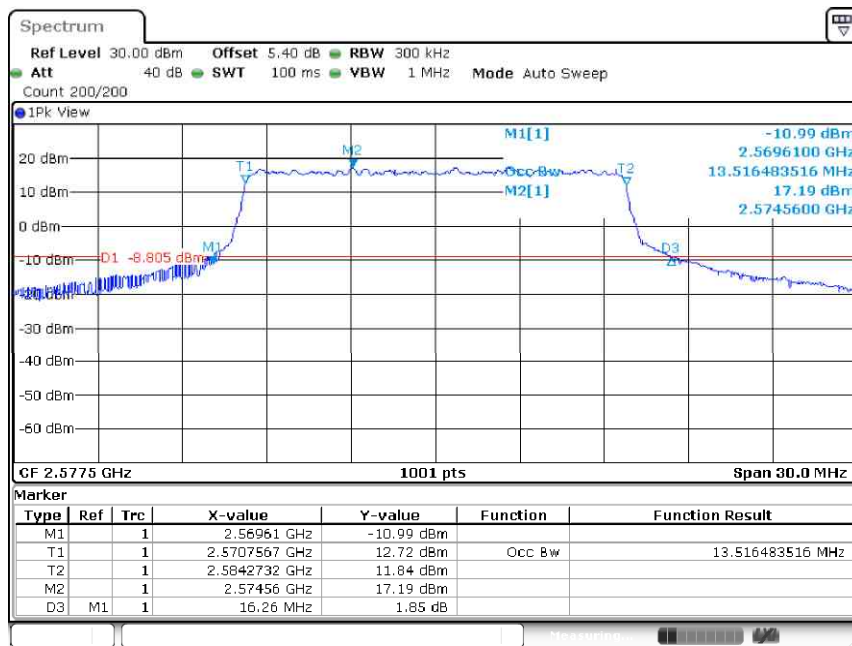


Band38-10MHz-16QAM-38200-50RB#0-8.911



Date: 16.AUG 2020 00:18:05

Band38-15MHz-QPSK-37825-75RB#0-13.516



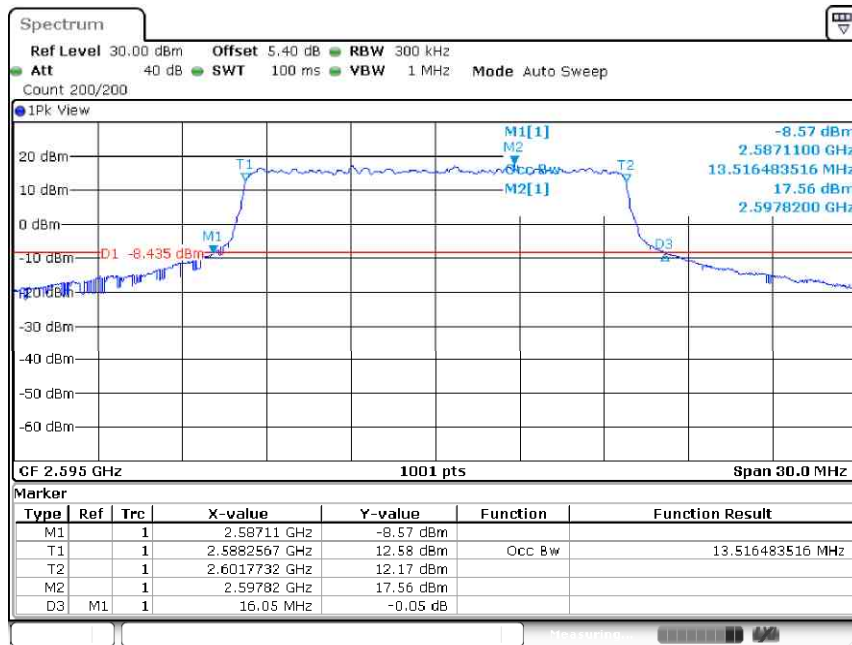
Date: 21.AUG 2020 14:37:48



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.

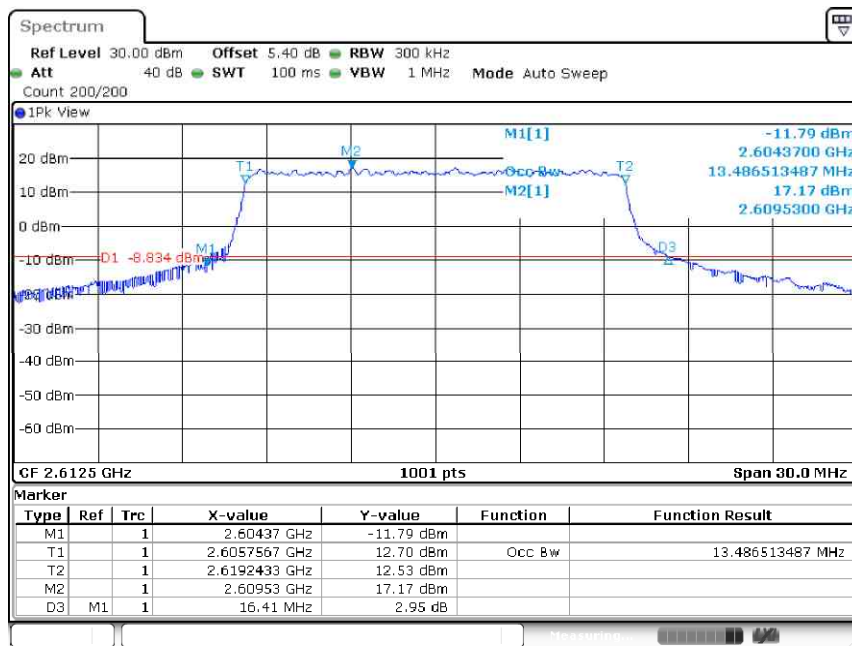


Band38-15MHz-QPSK-38000-75RB#0-13.516



Date: 21.AUG 2020 14:40:17

Band38-15MHz-QPSK-38175-75RB#0-13.487

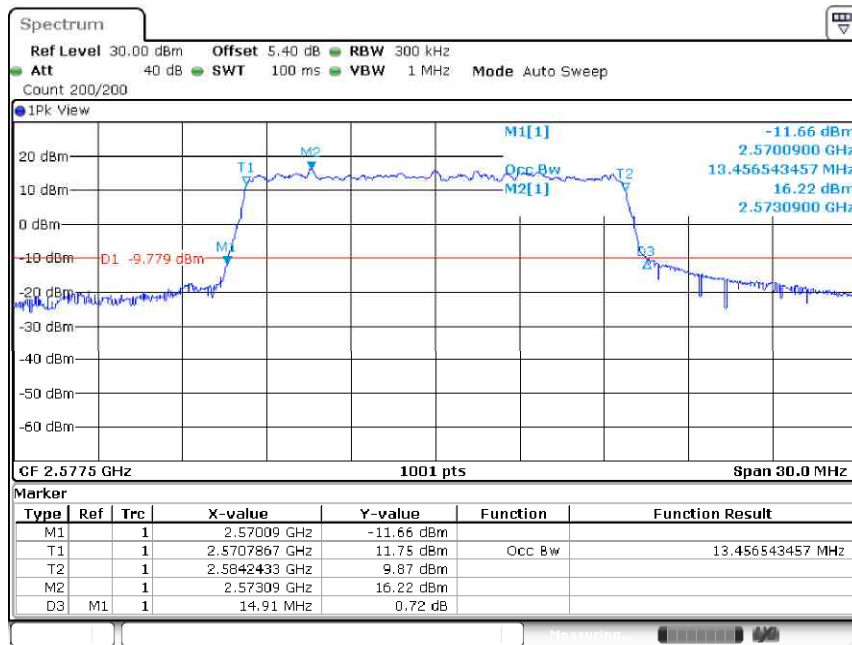


Date: 21.AUG 2020 14:42:04



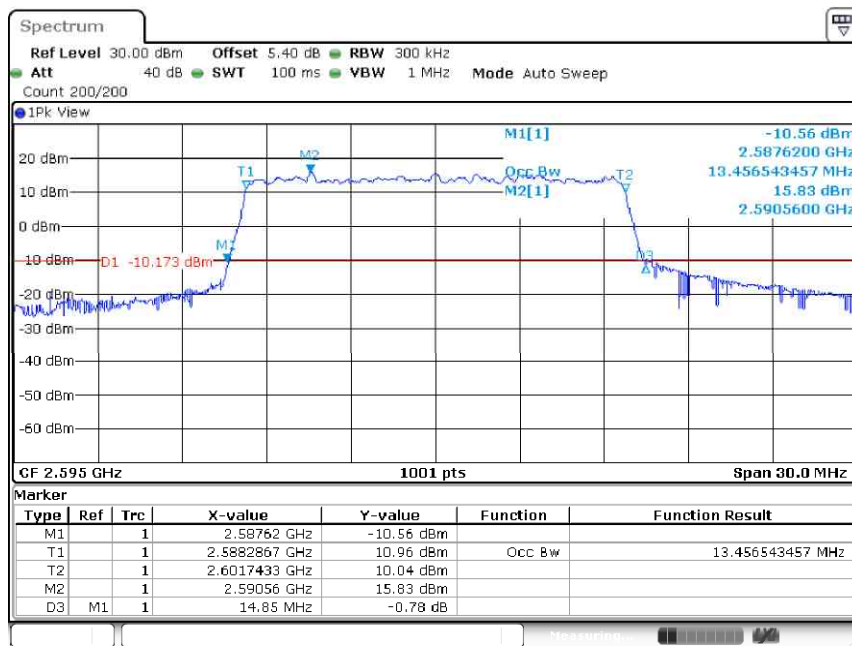
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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-37825-75RB#0-13.457



Date: 15.AUG.2020 02:35:33

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



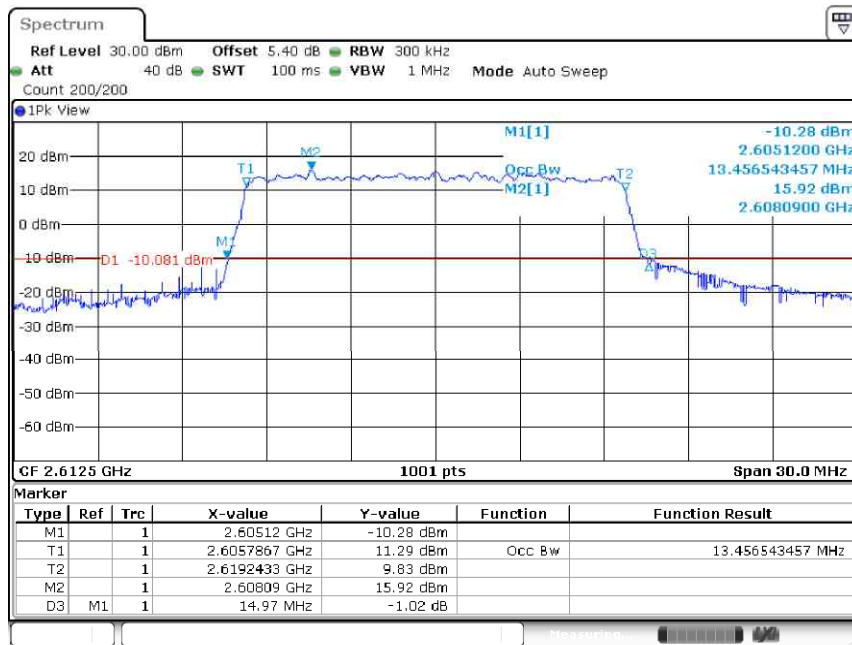
Date: 15.AUG.2020 02:36:06



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.

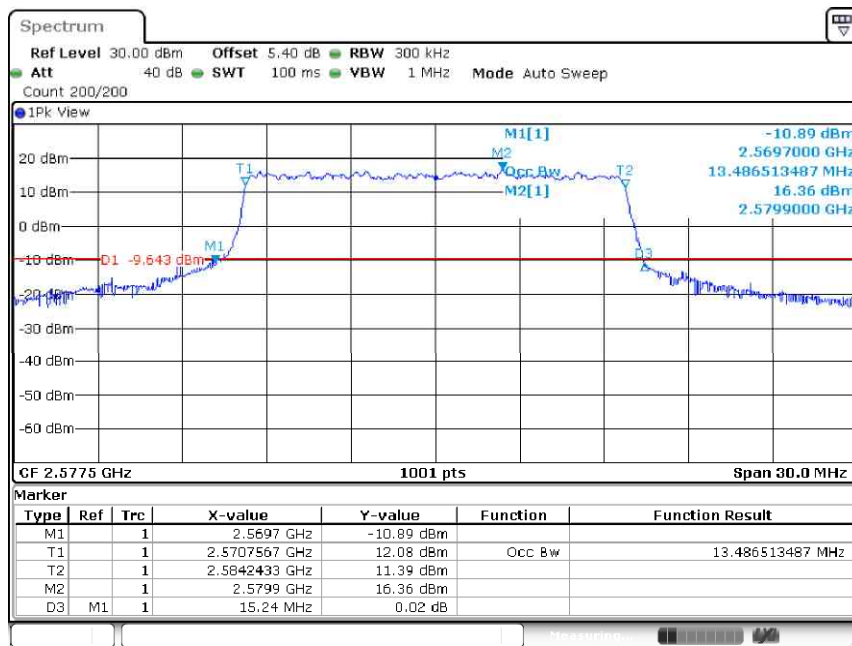


Band38-15MHz-64QAM-38175-75RB#0-13.457



Date: 16.AUG 2020 02:38:39

Band38-15MHz-16QAM-37825-75RB#0-13.487



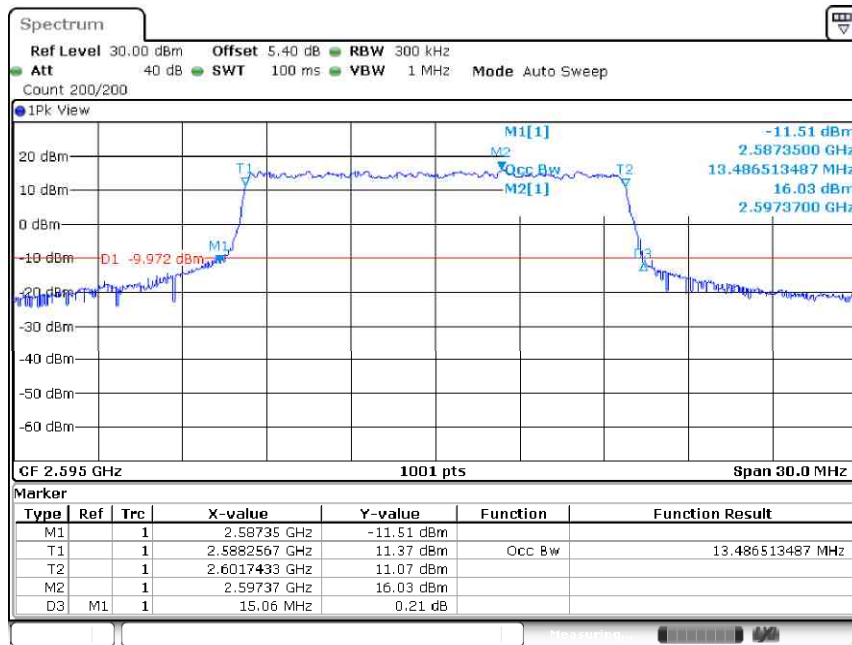
Date: 21.AUG 2020 14:38:21



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.

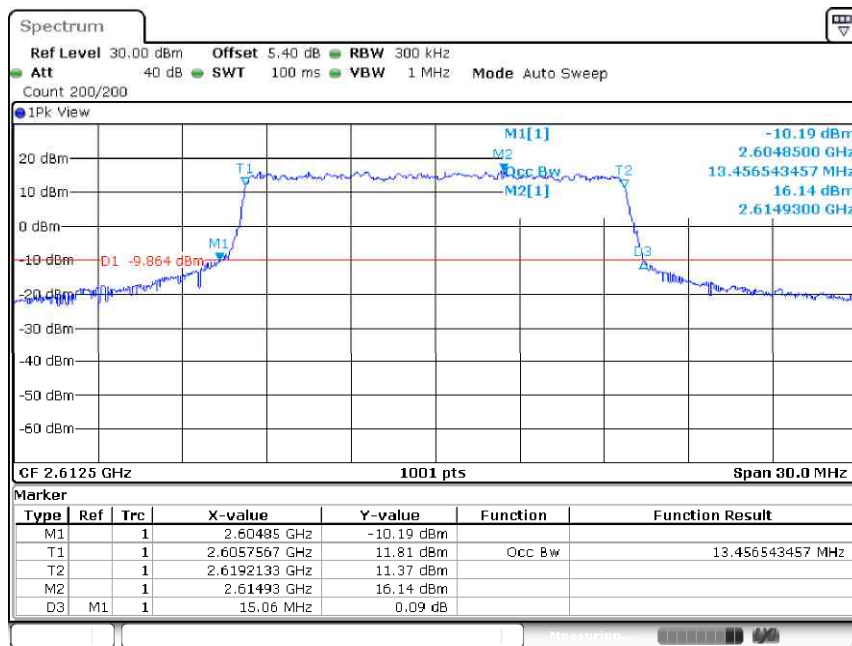


Band38-15MHz-16QAM-38000-75RB#0-13.487



Date: 21.AUG 2020 14:40:50

Band38-15MHz-16QAM-38175-75RB#0-13.457



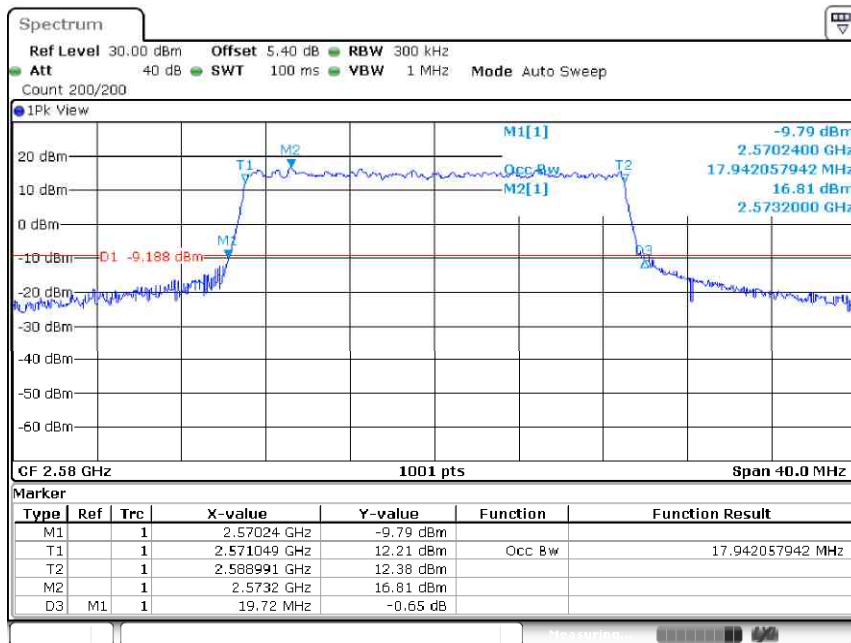
Date: 21.AUG 2020 14:42:37



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.

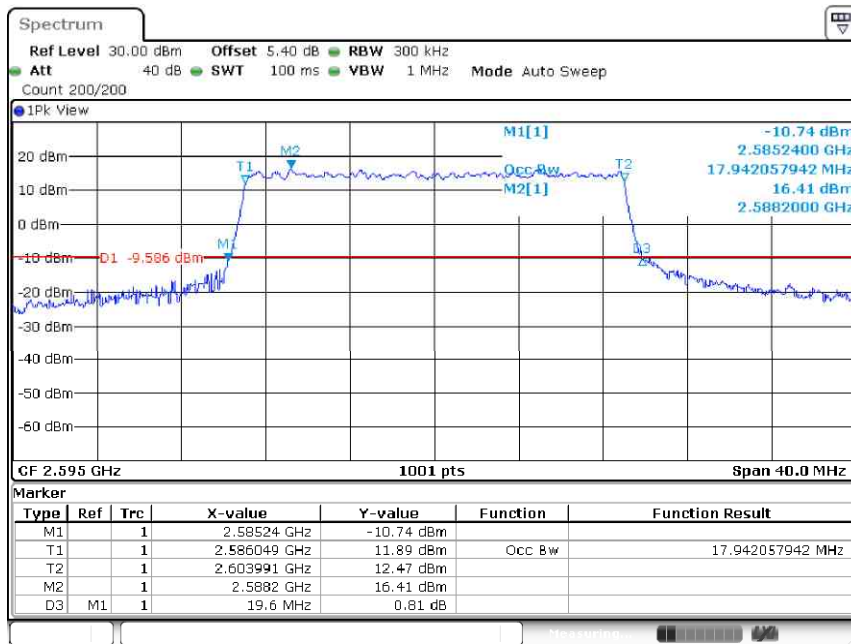


Band38-20MHz-QPSK-37850-100RB#0-17.942



Date: 15.AUG.2020 00:20:08

Band38-20MHz-QPSK-38000-100RB#0-17.942



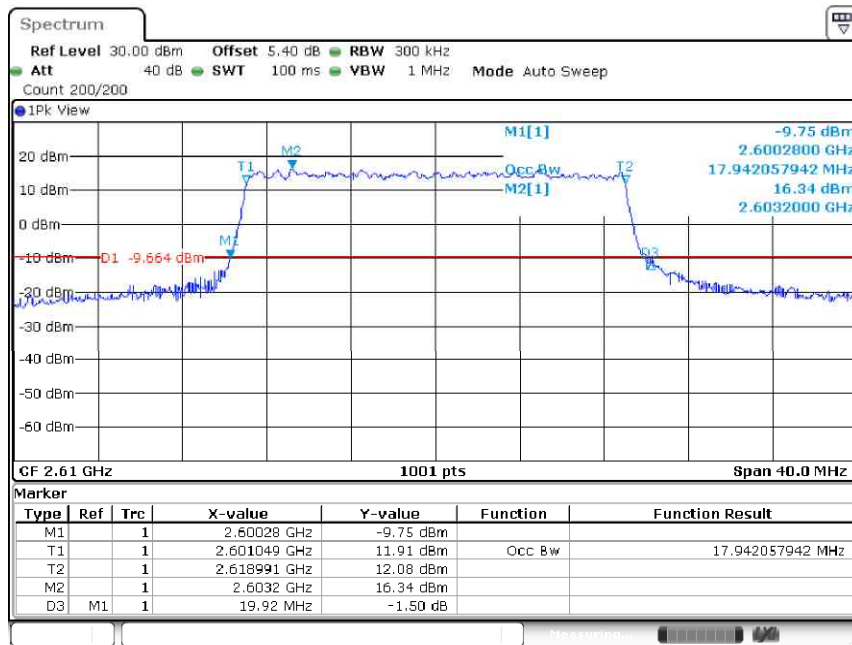
Date: 15.AUG.2020 00:21:14



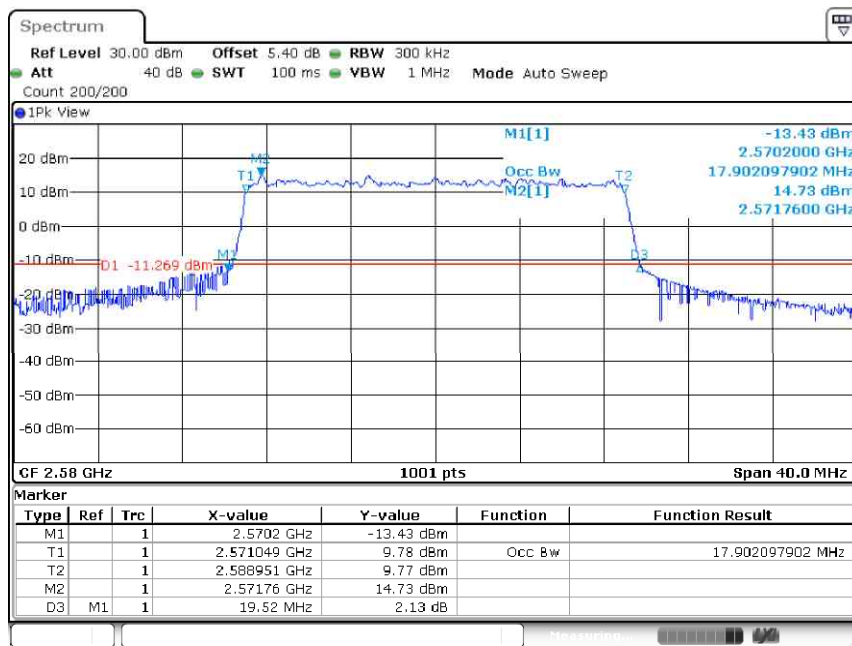
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.
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-38150-100RB#0-17.942



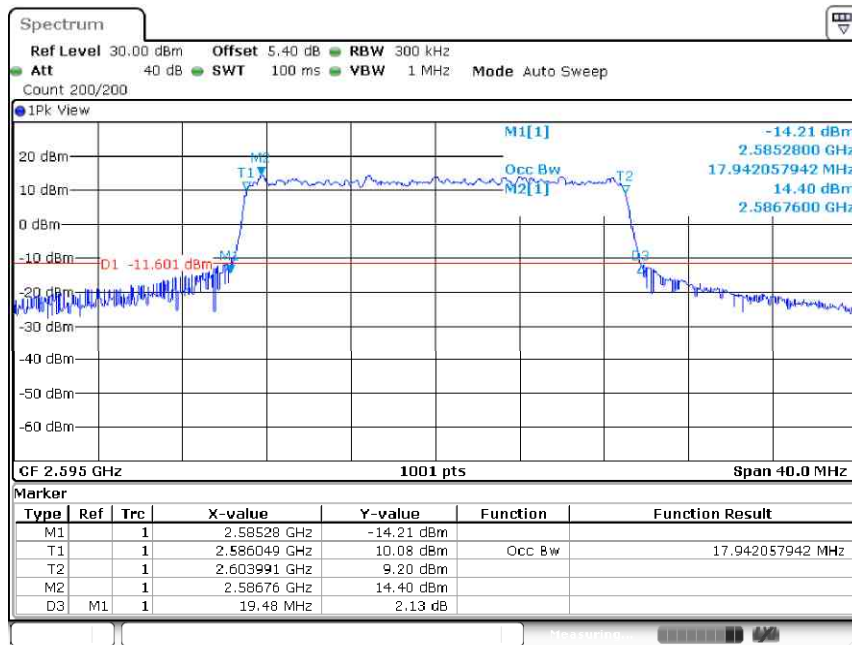
Band38-20MHz-64QAM-37850-100RB#0-17.902



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.

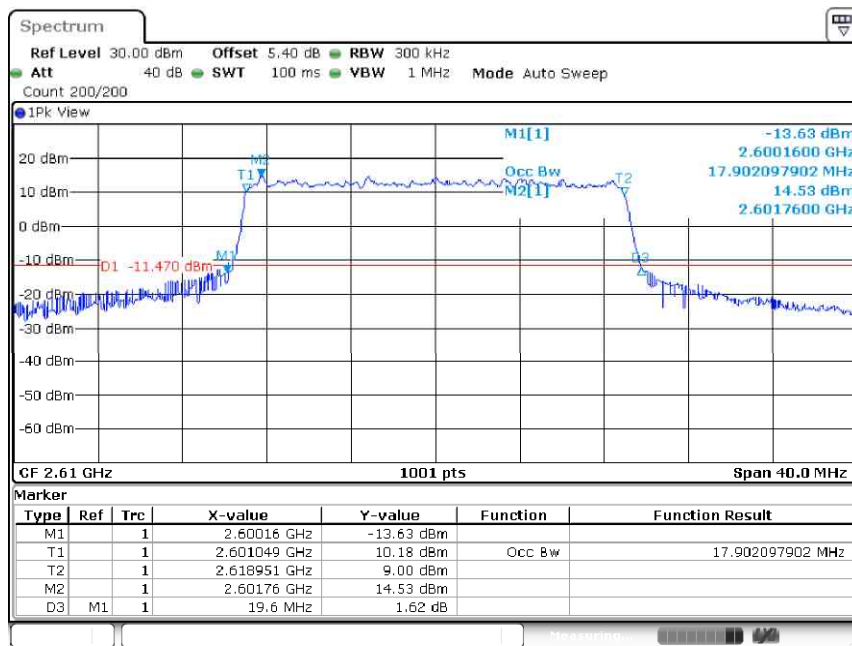


Band38-20MHz-64QAM-38000-100RB#0-17.942



Date: 15 AUG 2020 02:37:52

Band38-20MHz-64QAM-38150-100RB#0-17.902



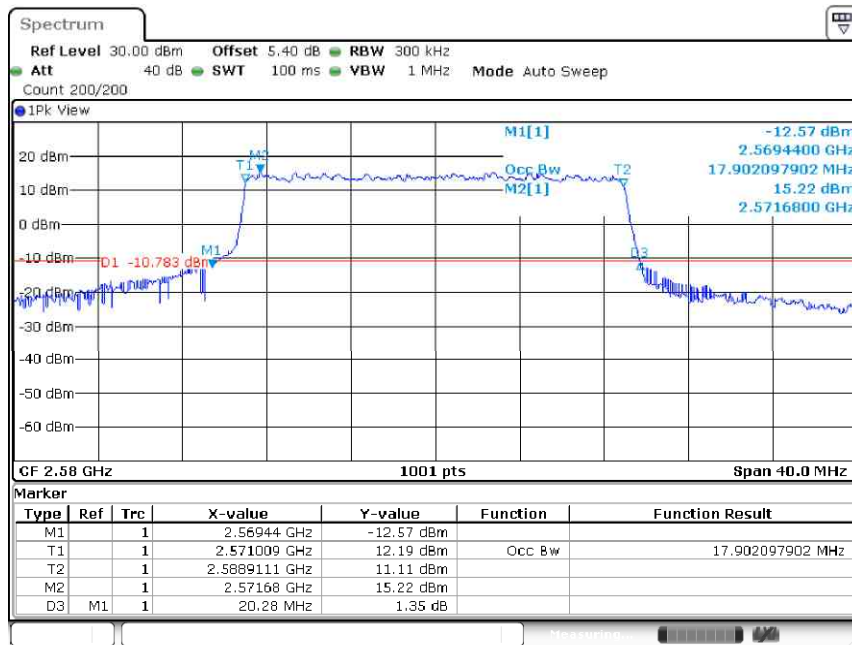
Date: 15 AUG 2020 02:38:25



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.

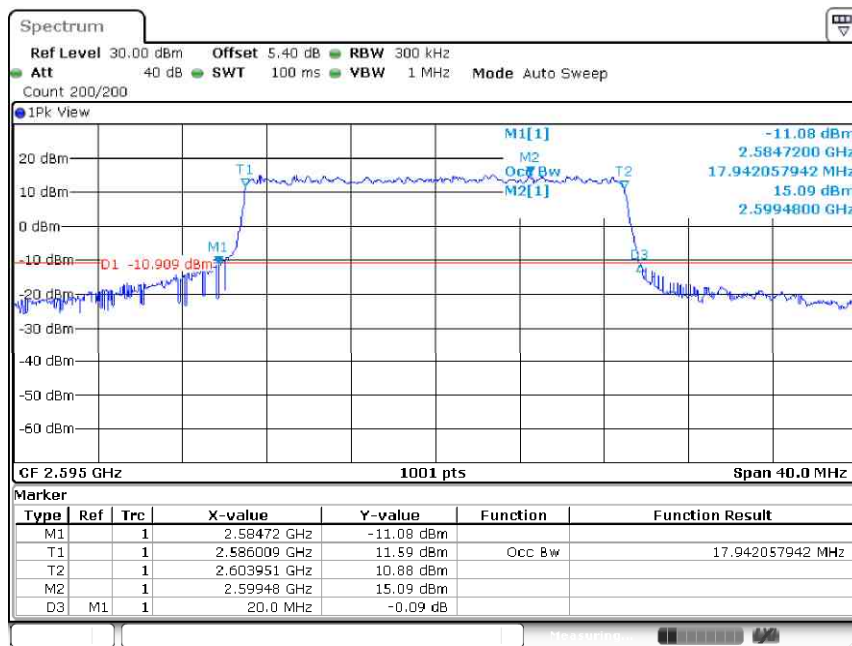


Band38-20MHz-16QAM-37850-100RB#0-17.902



Date: 15 AUG 2020 00:20:41

Band38-20MHz-16QAM-38000-100RB#0-17.942



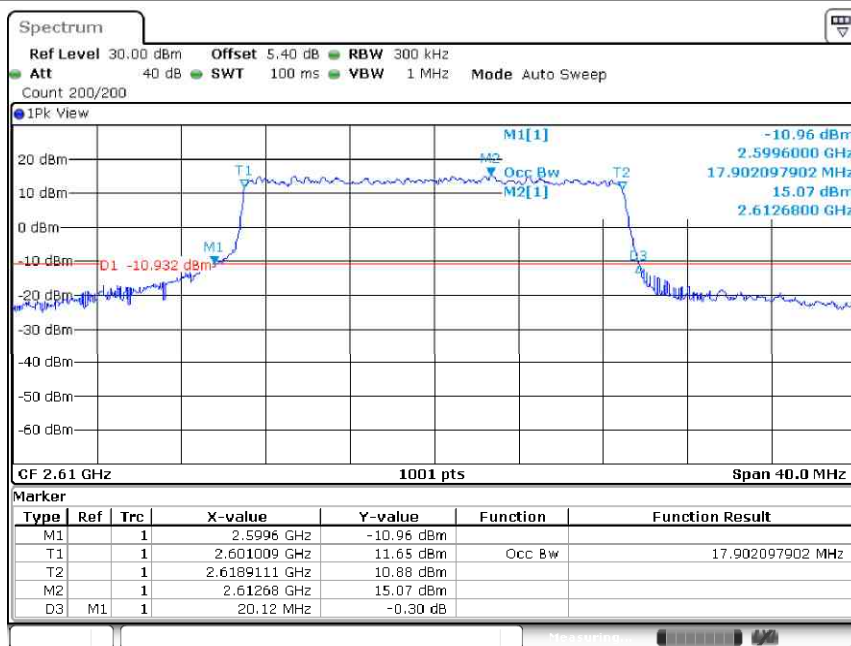
Date: 15 AUG 2020 00:21:47



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.



Band38-20MHz-16QAM-38150-100RB#0-17.902



Date: 16.AUG.2020 00:22:53



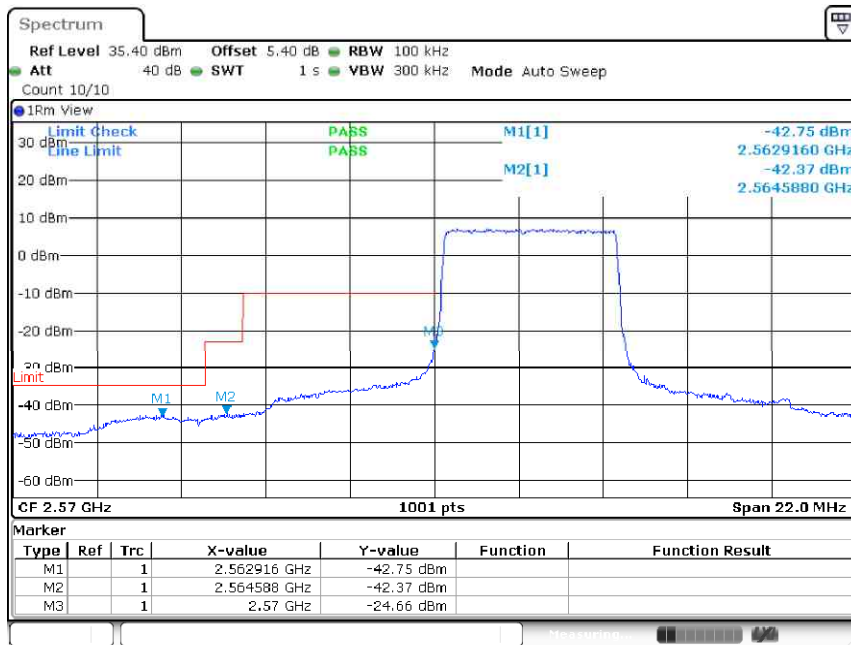
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

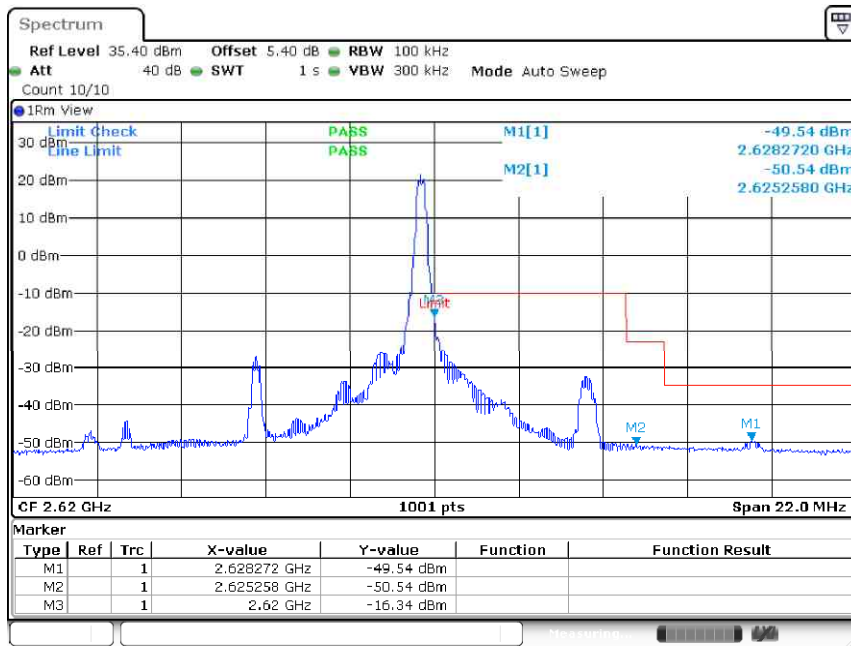


Band38-5MHz-QPSK-37775-25RB#0



Date: 21.AUG 2020 14:45:16

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



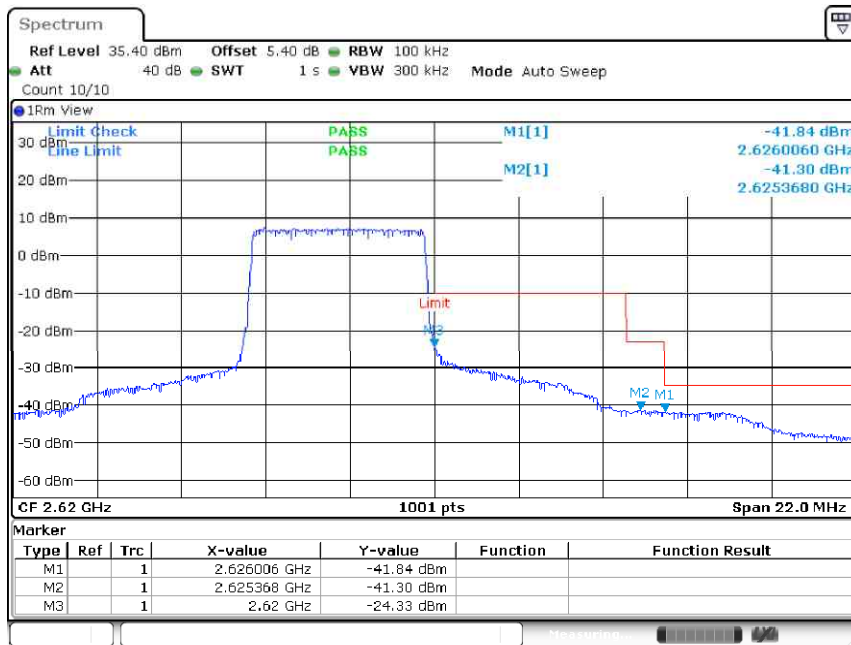
Date: 21.AUG 2020 14:44:10



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.
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

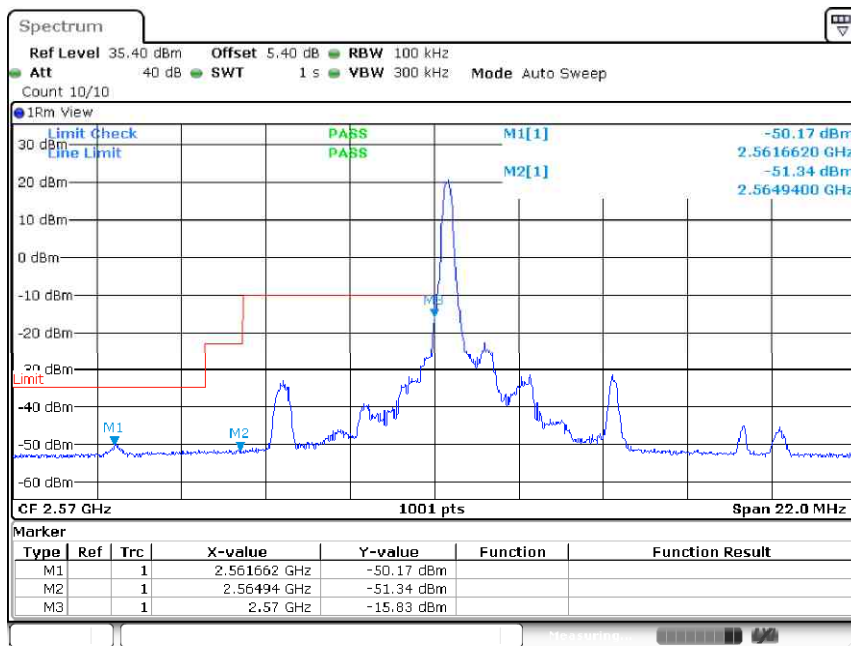


Band38-5MHz-QPSK-38225-25RB#0



Date: 21.AUG 2020 14:48:29

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



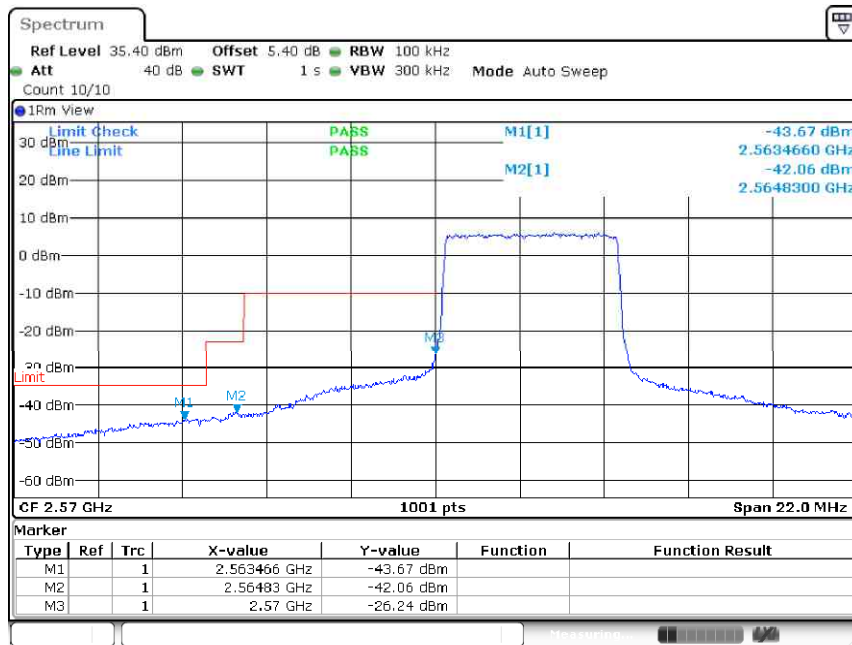
Date: 21.AUG 2020 14:47:42



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.

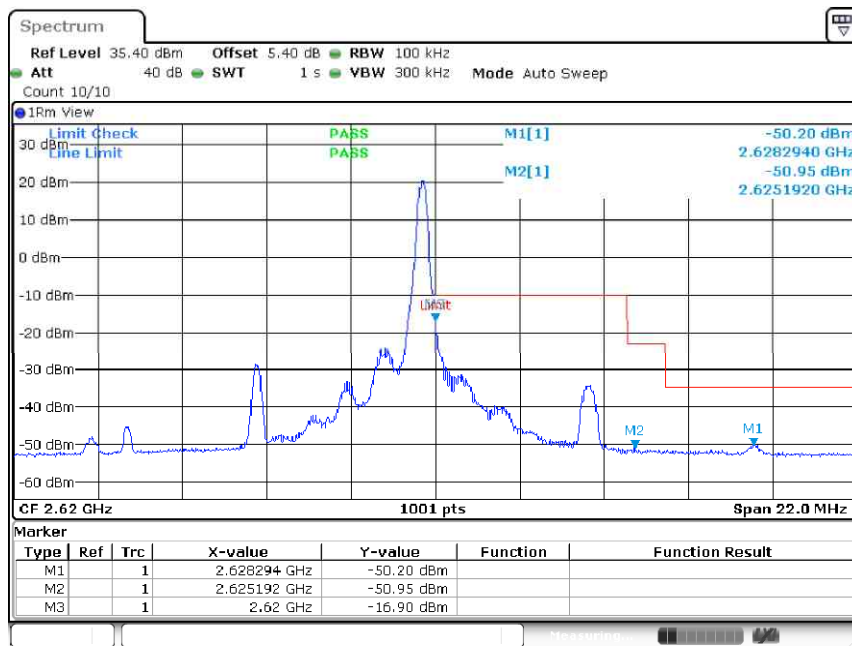


Band38-5MHz-64QAM-37775-25RB#0



Date: 21.AUG 2020 14:49:07

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

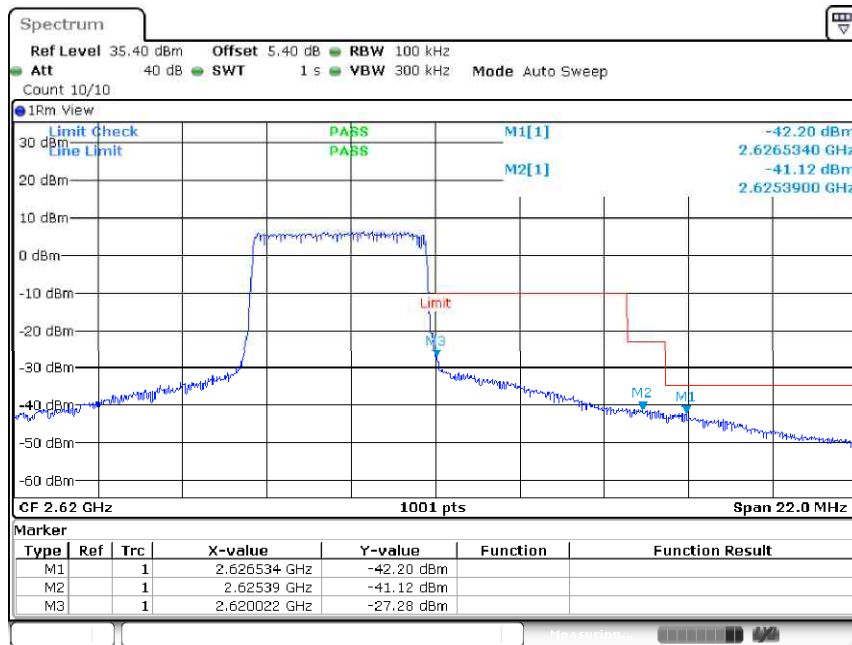


Date: 21.AUG 2020 14:48:40



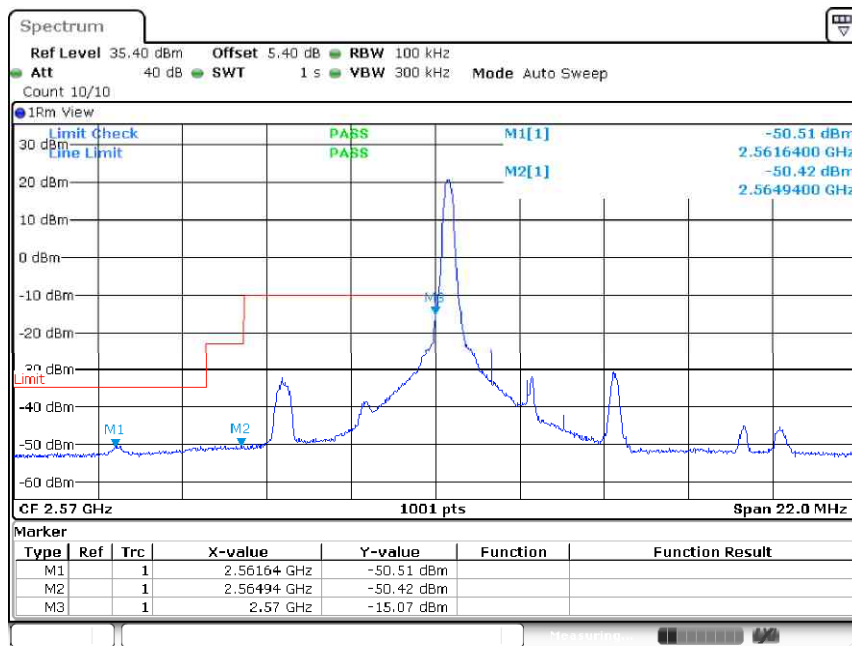
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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-38225-25RB#0



Date: 21.AUG 2020 14:49:58

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

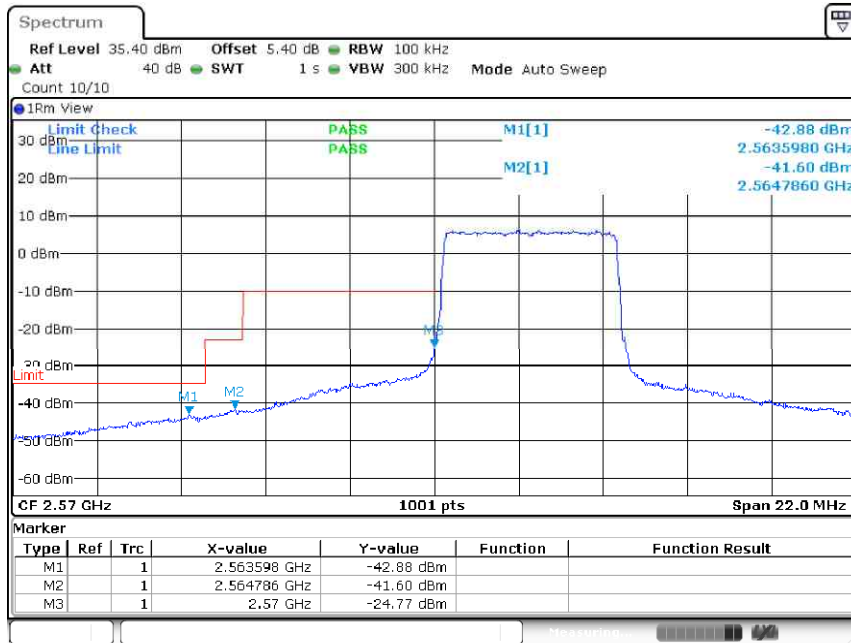


Date: 21.AUG 2020 14:43:27



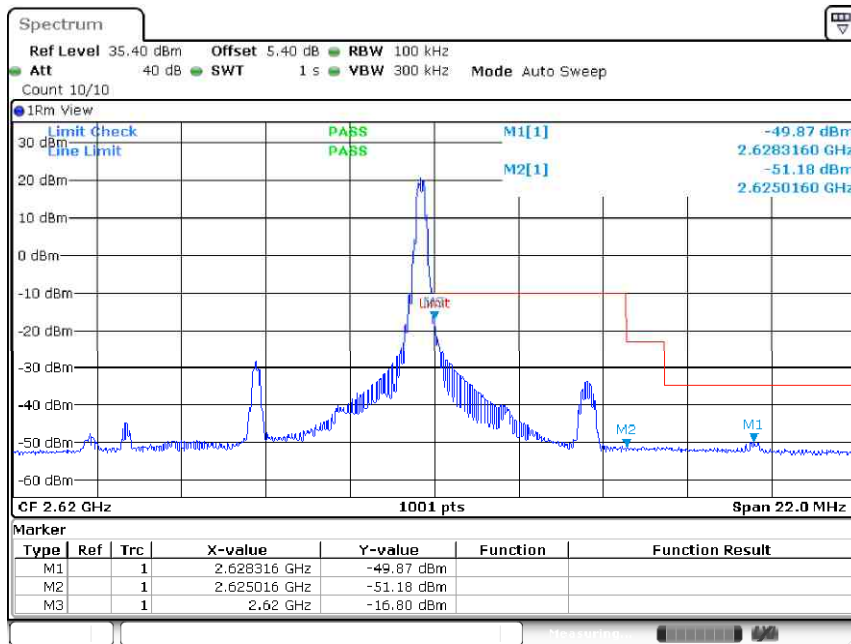
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 21.AUG 2020 14:45:38

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

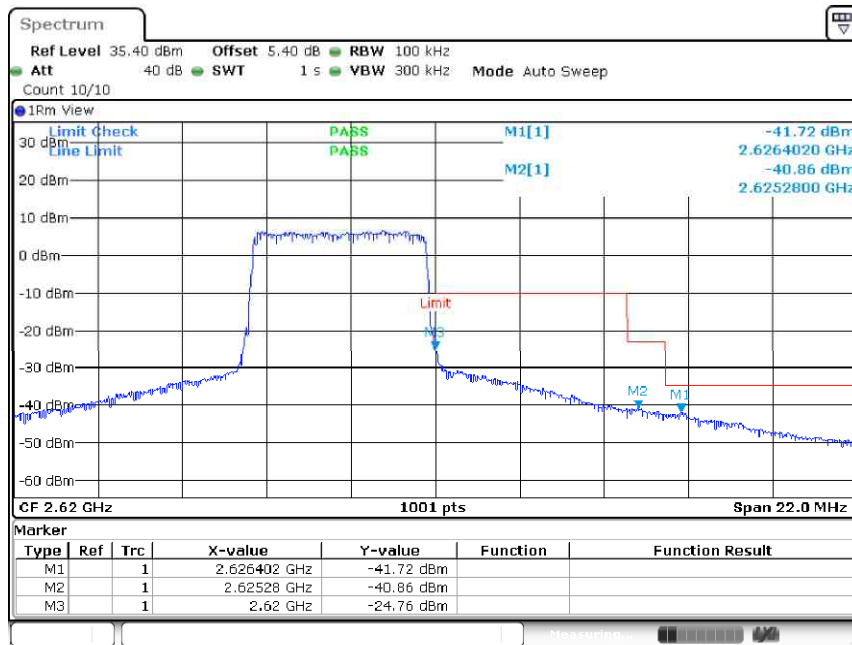


Date: 21.AUG 2020 14:44:50



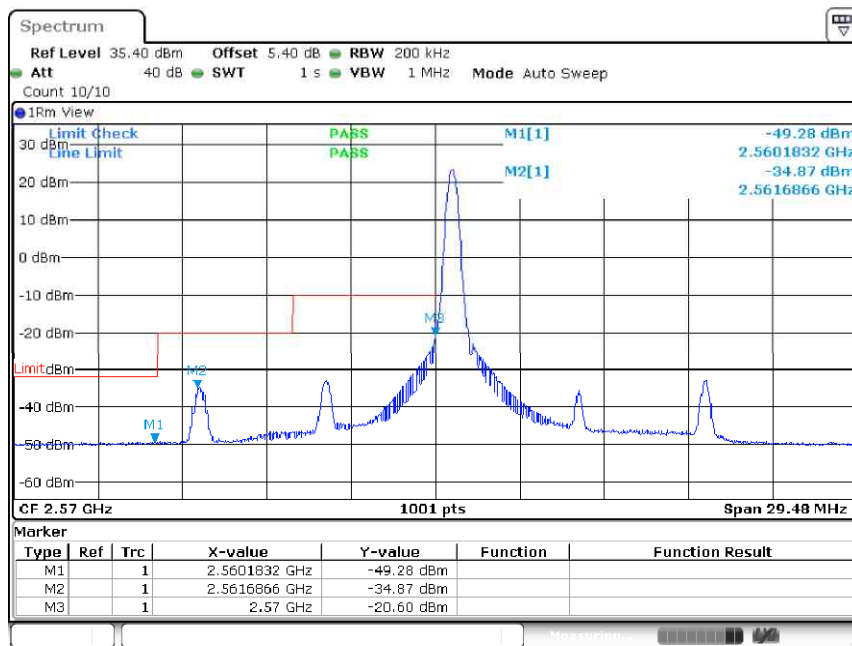
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 21.AUG 2020 14:47:16

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



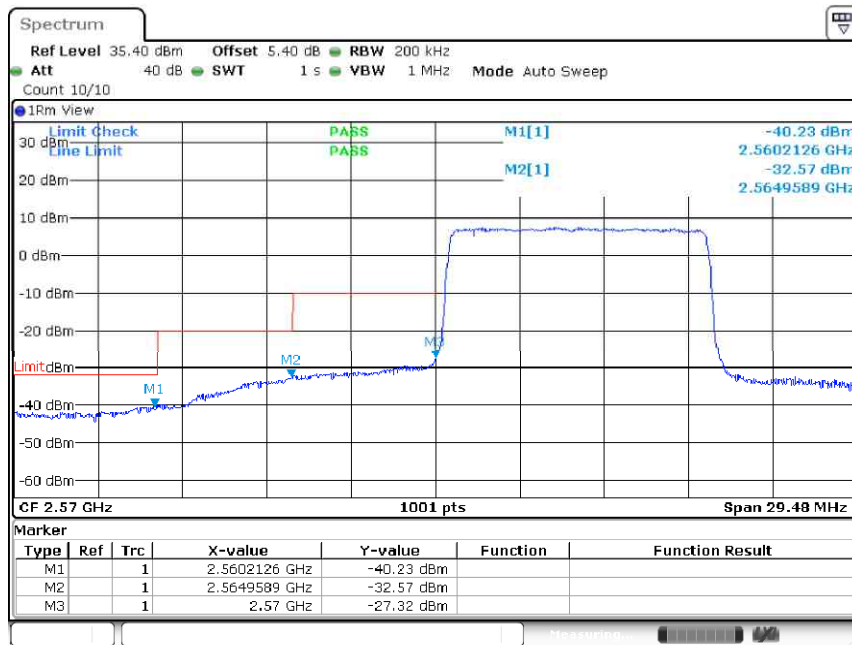
Date: 15.AUG 2020 00:26:31



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.

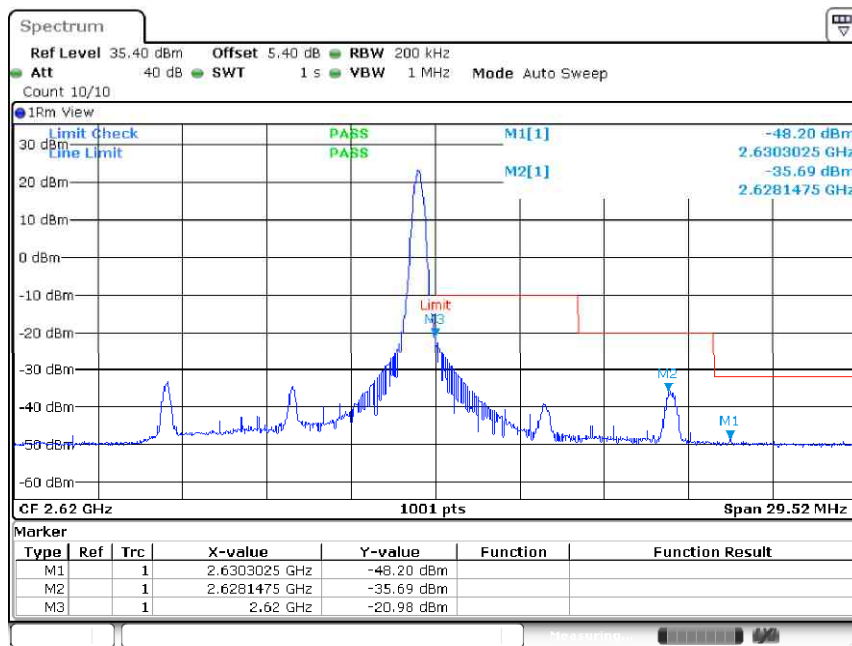


Band38-10MHz-QPSK-37800-50RB#0



Date: 15.AUG.2020 00:28:07

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



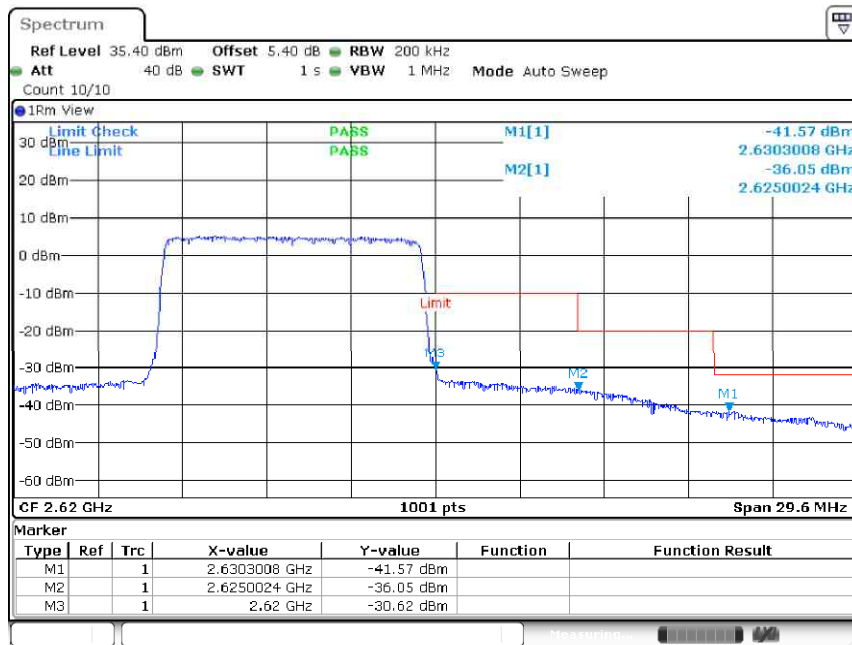
Date: 15.AUG.2020 00:27:19



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.

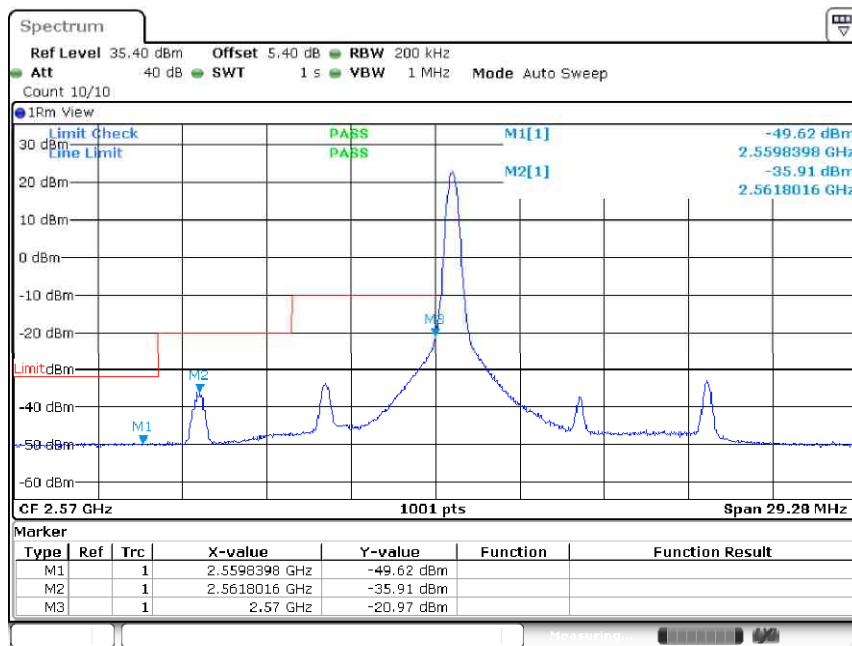


Band38-10MHz-64QAM-38200-50RB#0



Date: 16.AUG.2020 02:41:55

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



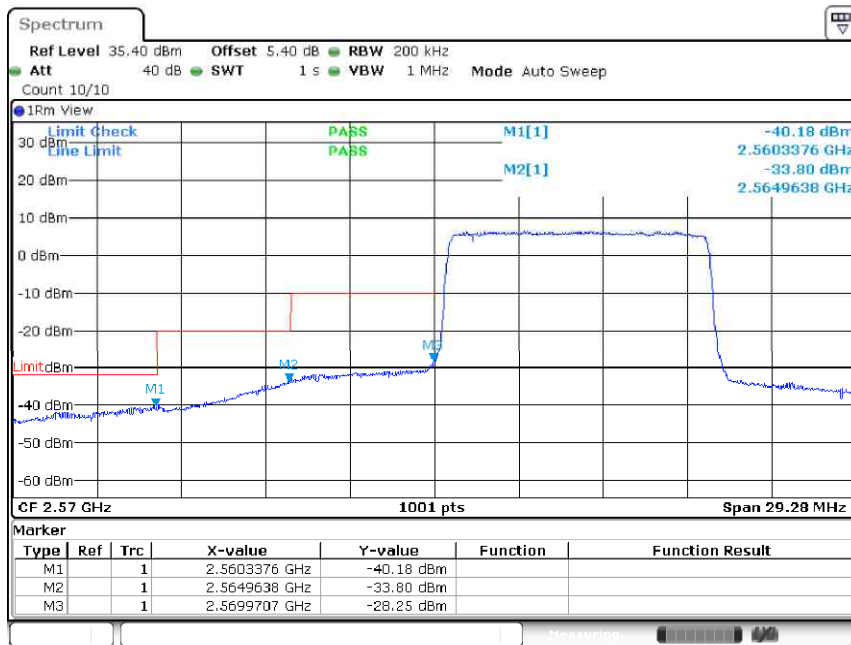
Date: 16.AUG.2020 00:26:53



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-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.

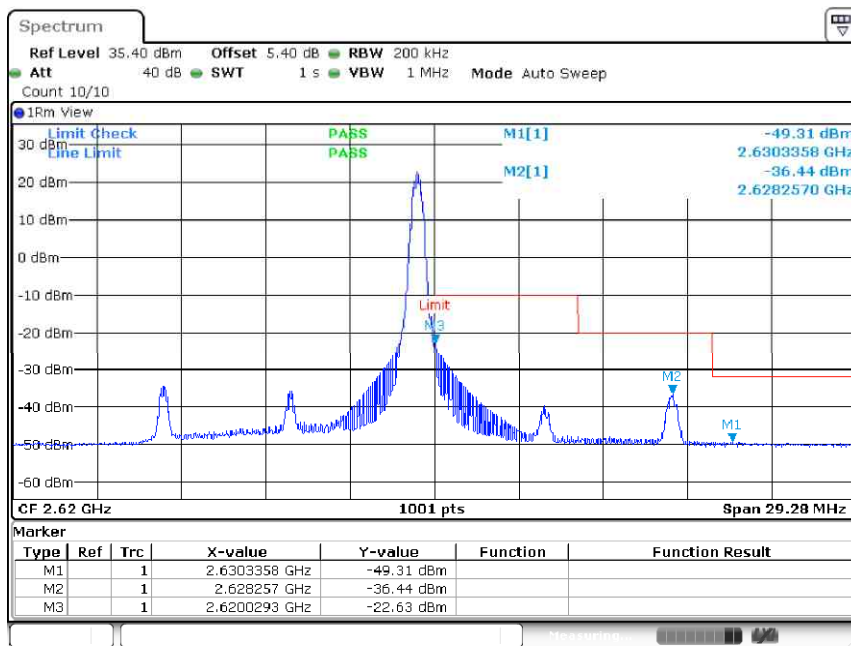


Band38-10MHz-16QAM-37800-50RB#0



Date: 15.AUG.2020 00:28:29

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



Date: 15.AUG.2020 00:27:41



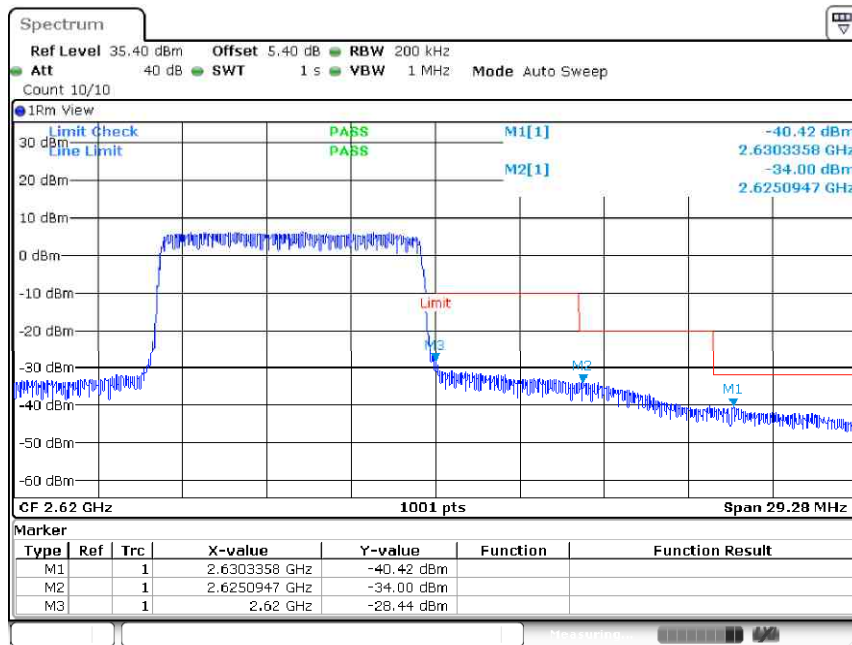
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

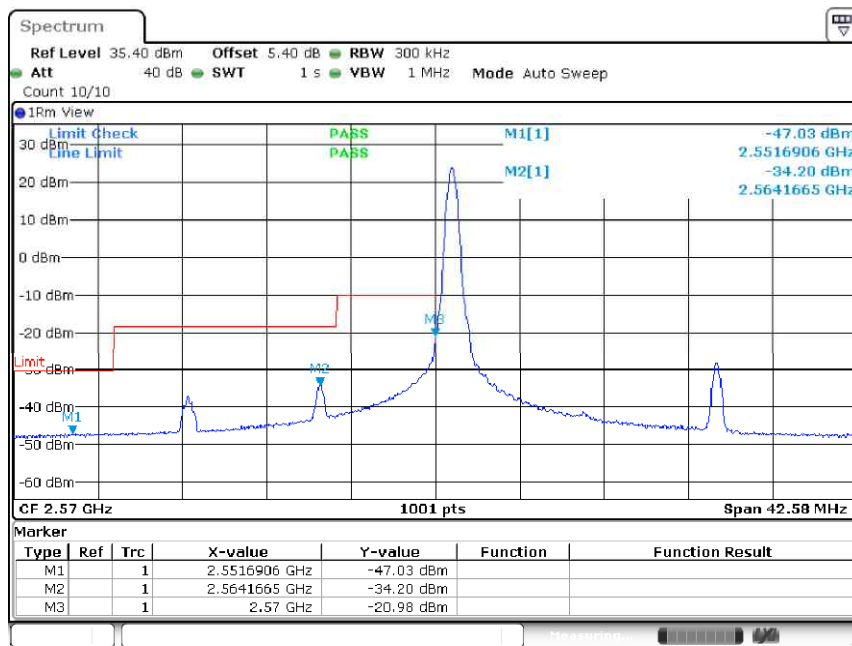


Band38-10MHz-16QAM-38200-50RB#0



Date: 15.AUG.2020 00:29:13

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



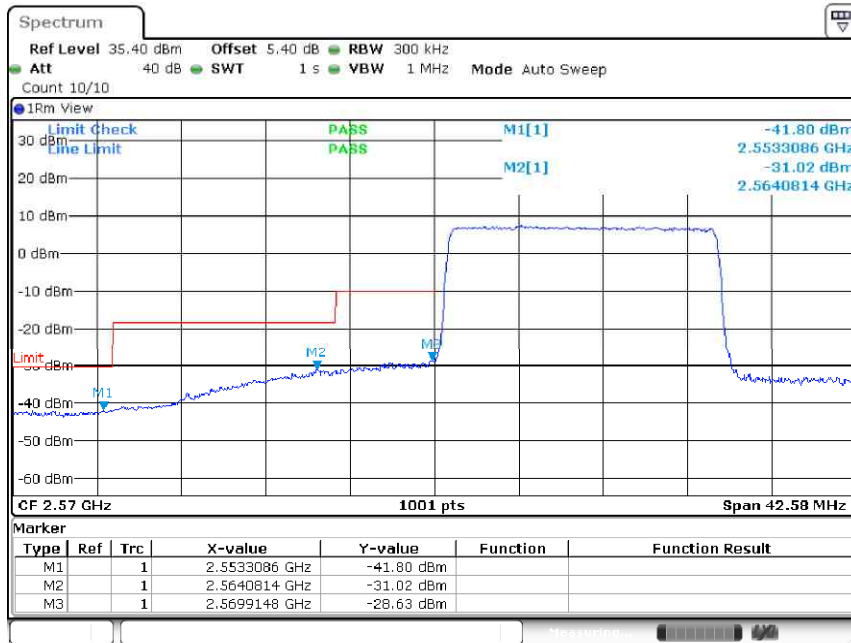
Date: 15.AUG.2020 00:29:41



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.

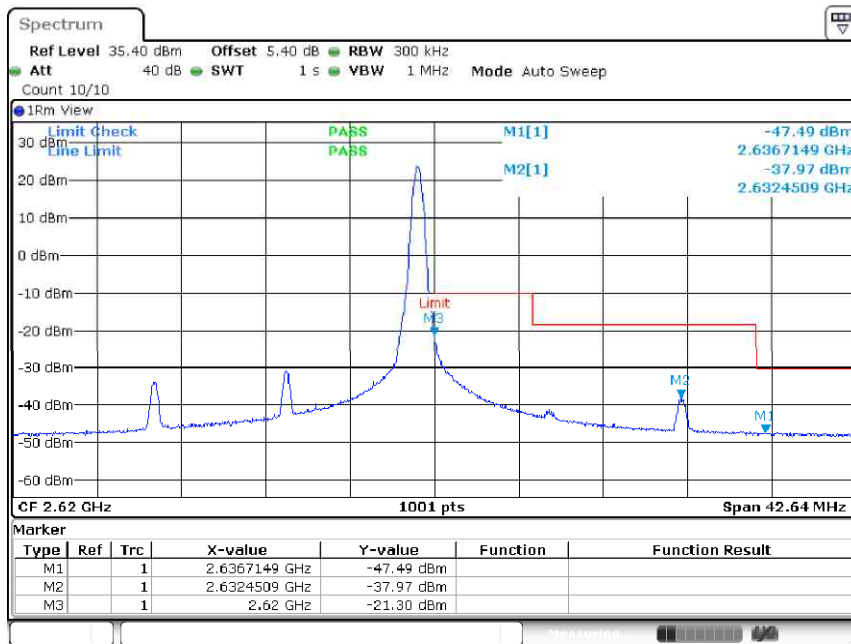


Band38-15MHz-QPSK-37825-75RB#0



Date: 15.AUG.2020 00:31:17

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



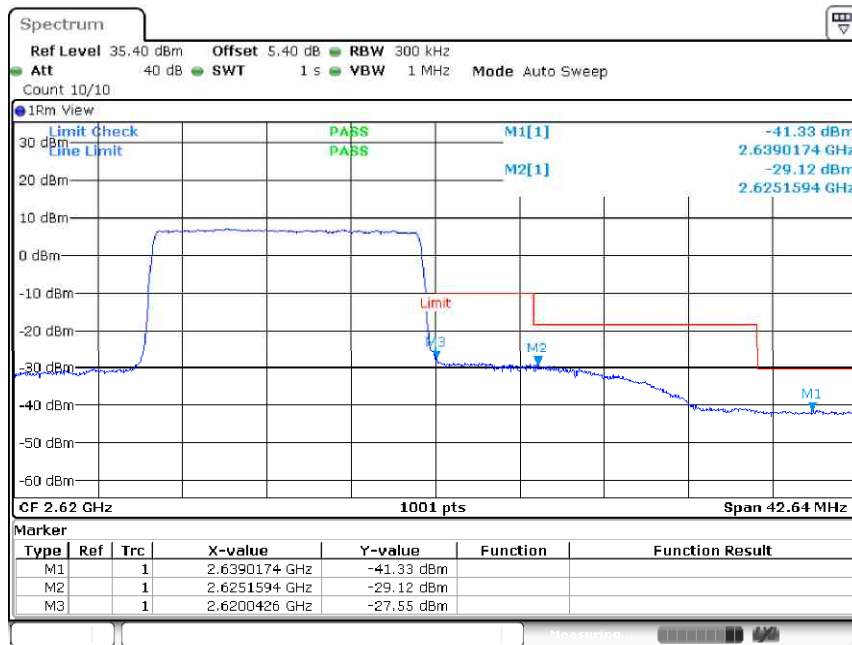
Date: 15.AUG.2020 00:30:29



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.

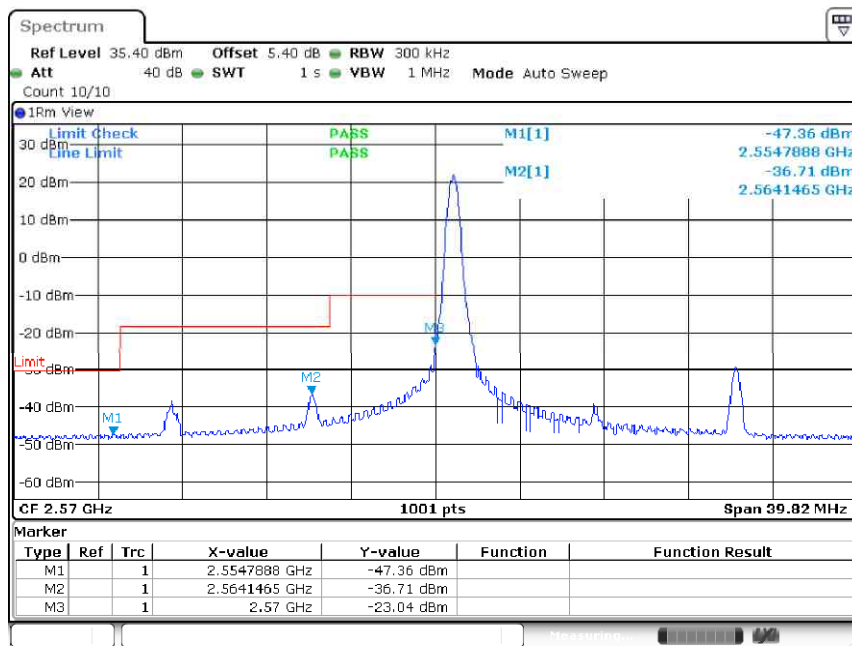


Band38-15MHz-QPSK-38175-75RB#0



Date: 15.AUG.2020 00:32:00

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

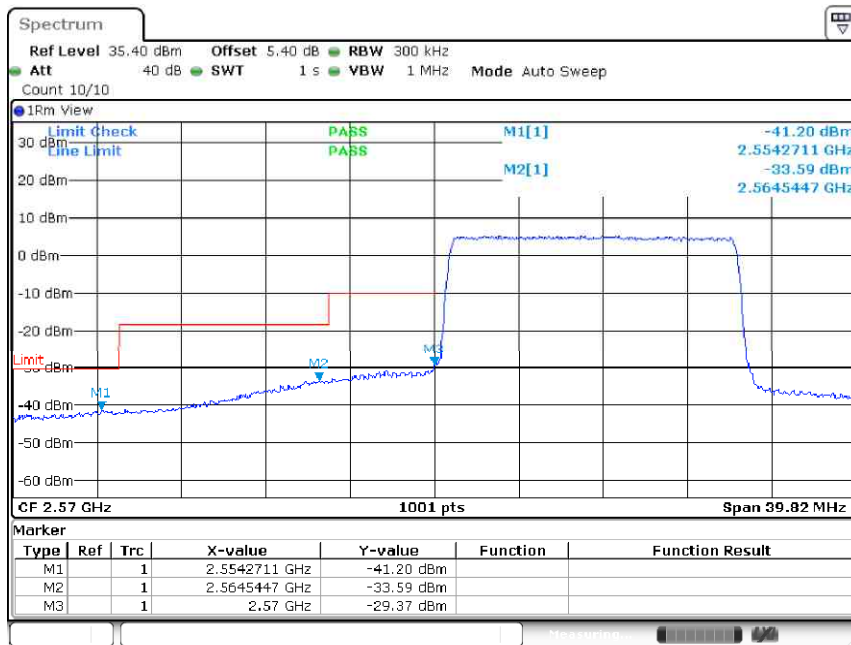


Date: 15.AUG.2020 02:42:24



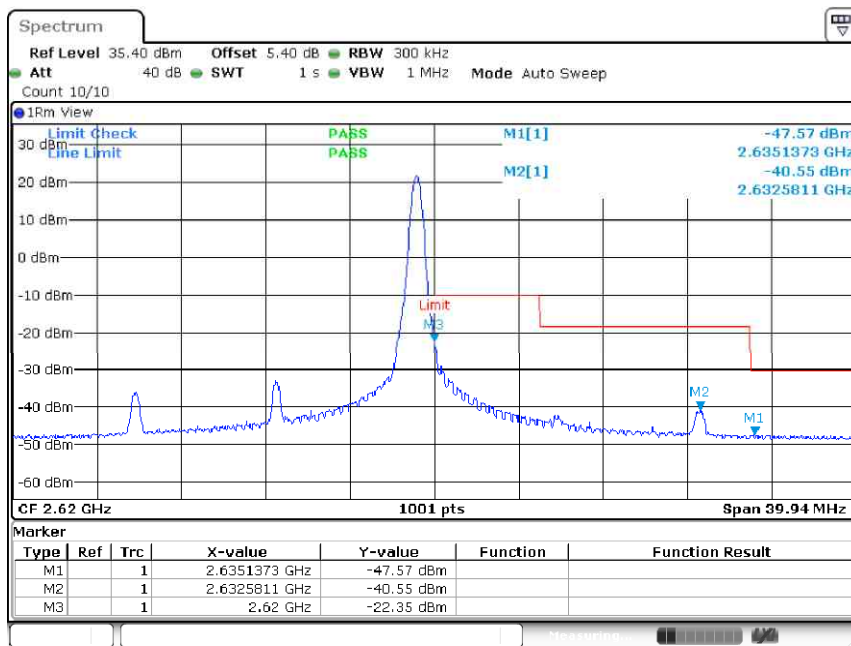
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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-37825-75RB#0



Date: 15.AUG.2020 02:43:19

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



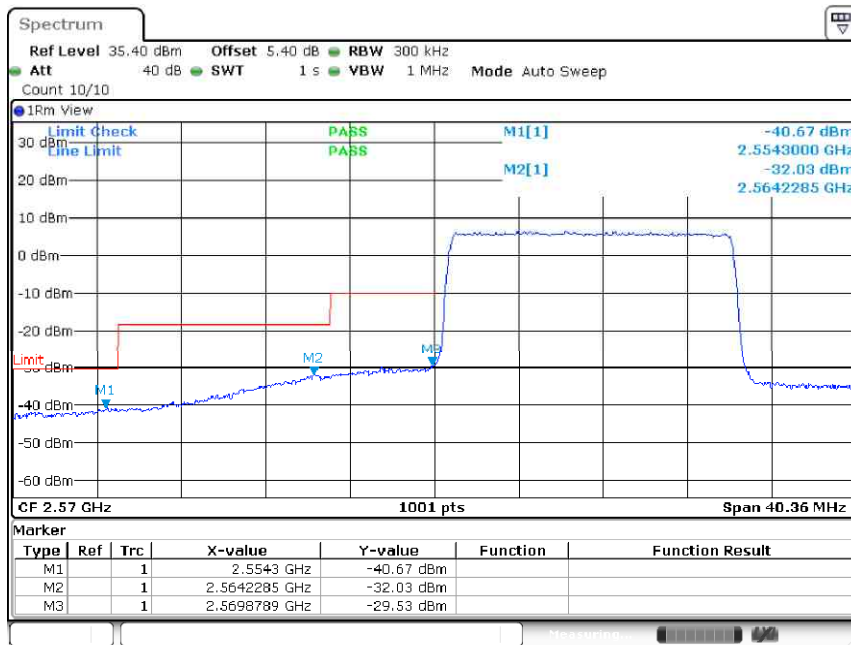
Date: 15.AUG.2020 02:42:51



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.

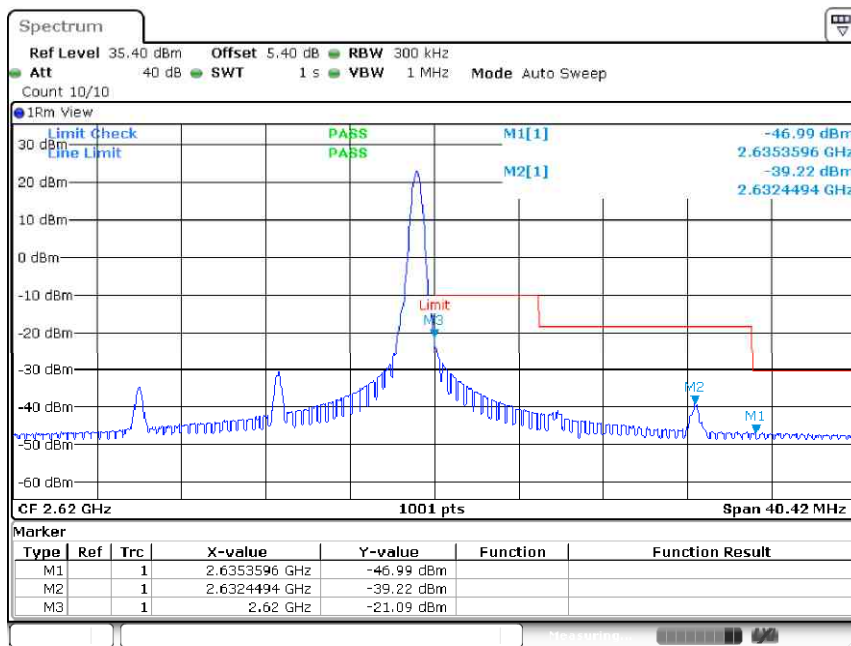


Band38-15MHz-16QAM-37825-75RB#0



Date: 15.AUG.2020 00:31:38

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



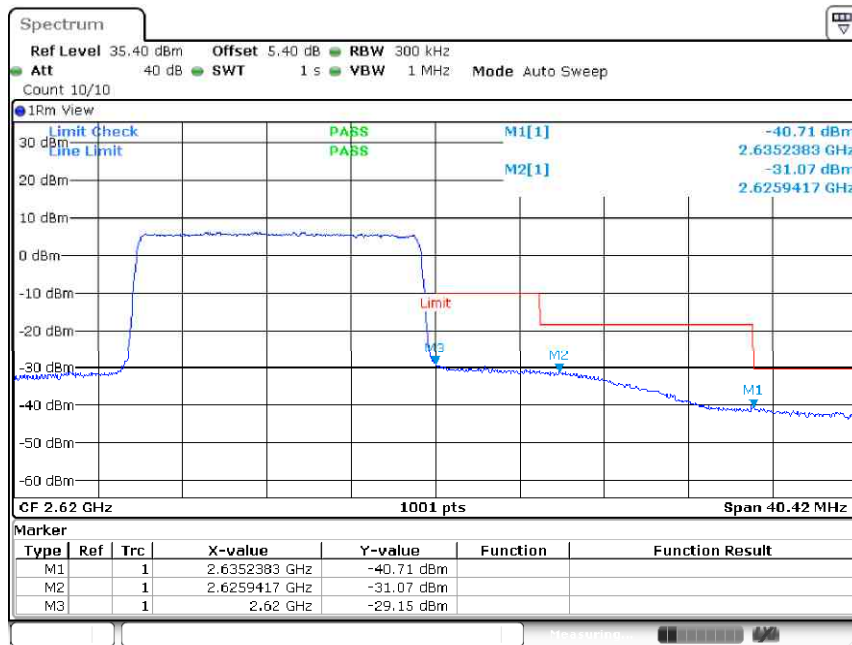
Date: 15.AUG.2020 00:30:50



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.

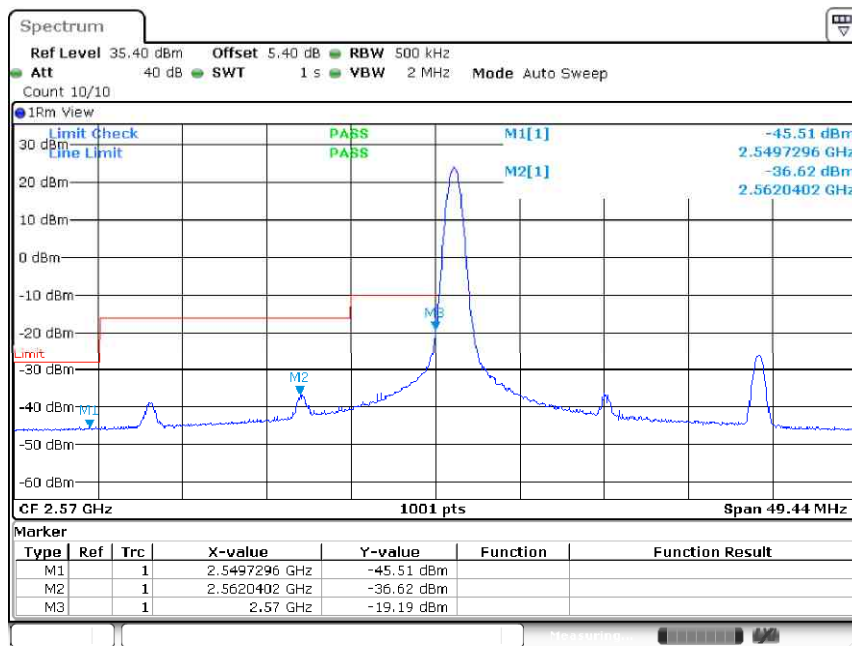


Band38-15MHz-16QAM-38175-75RB#0



Date: 15.AUG.2020 00:32:22

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



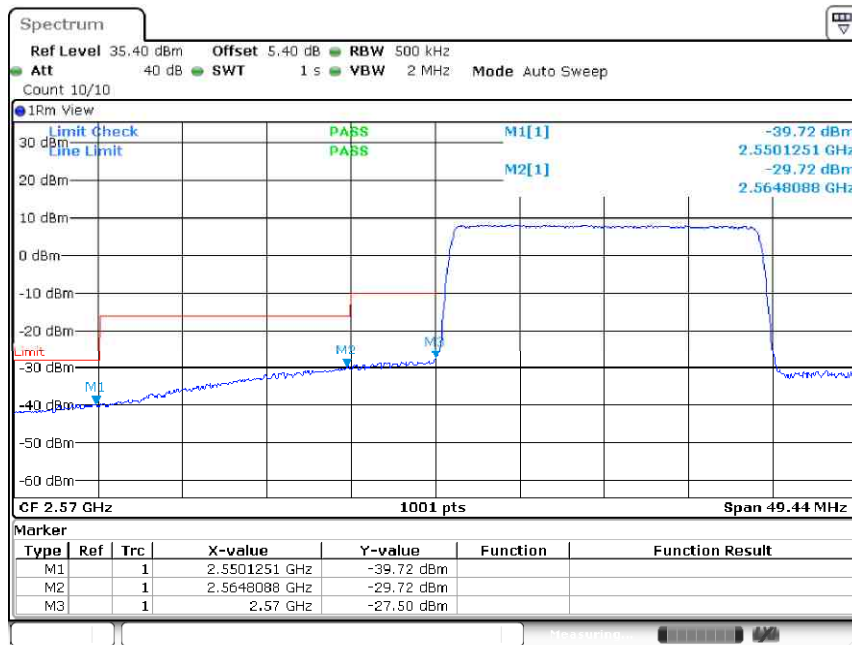
Date: 15.AUG.2020 00:32:50



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.

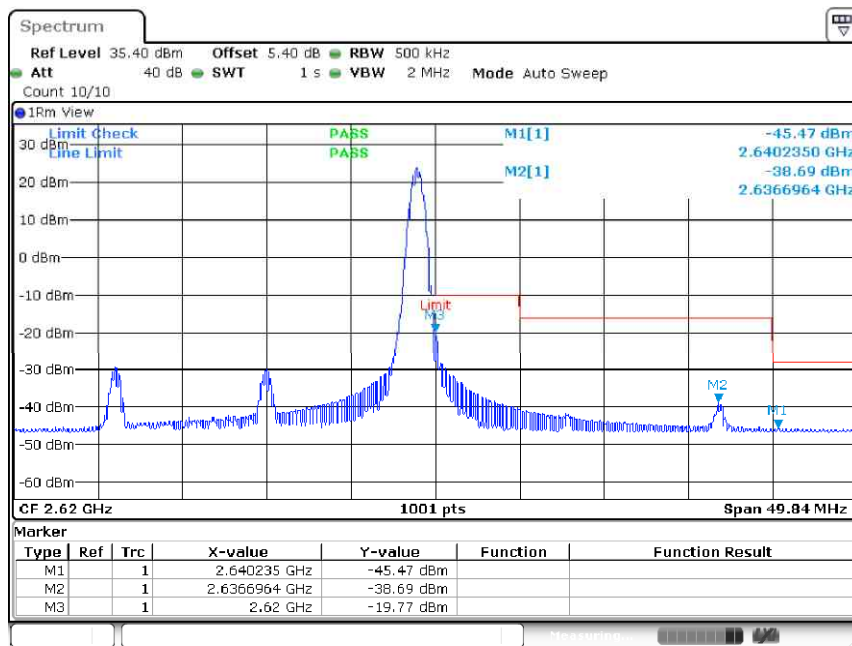


Band38-20MHz-QPSK-37850-100RB#0



Date: 15.AUG.2020 00:34:26

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

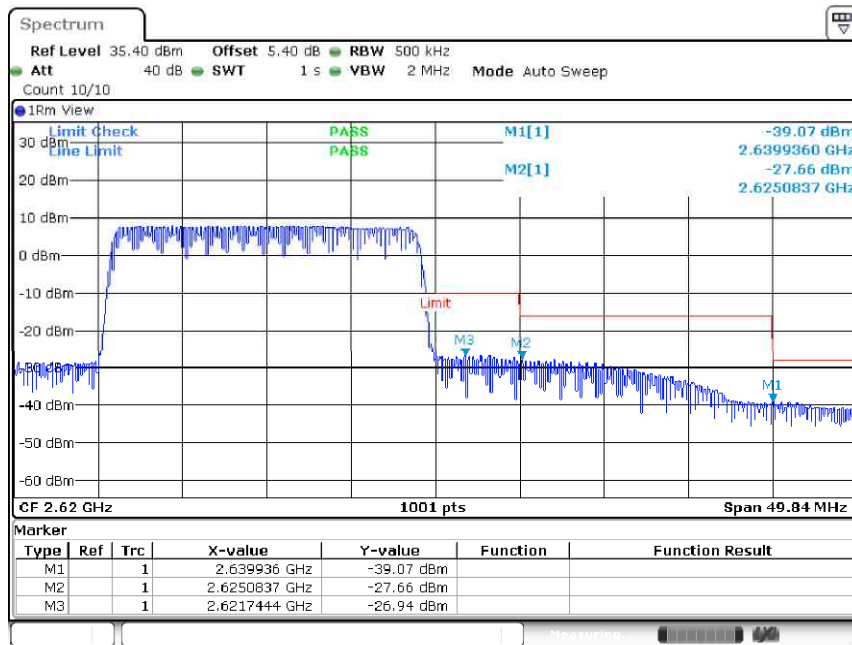


Date: 15.AUG.2020 00:33:38



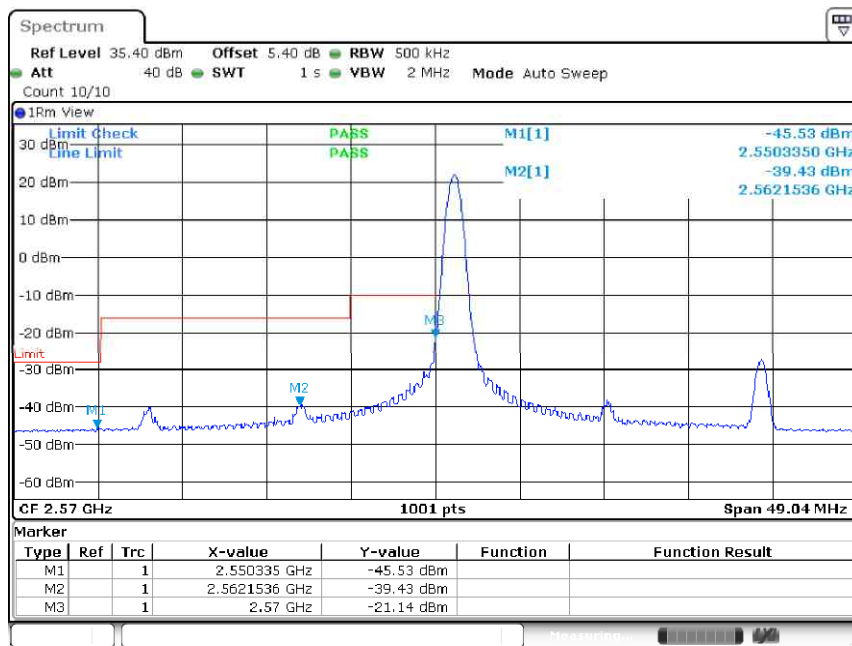
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 15.AUG.2020 00:35:09

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



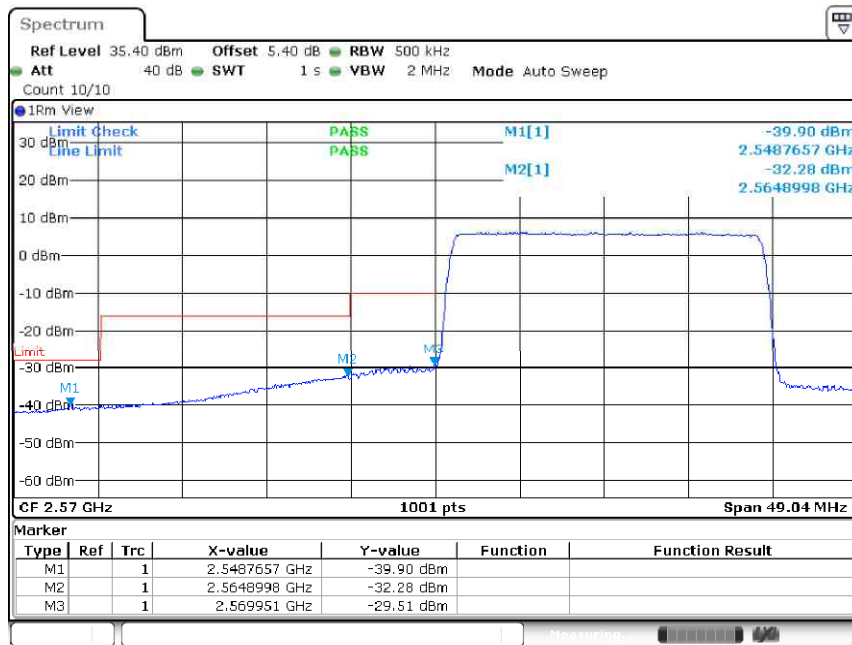
Date: 15.AUG.2020 02:44:10



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.

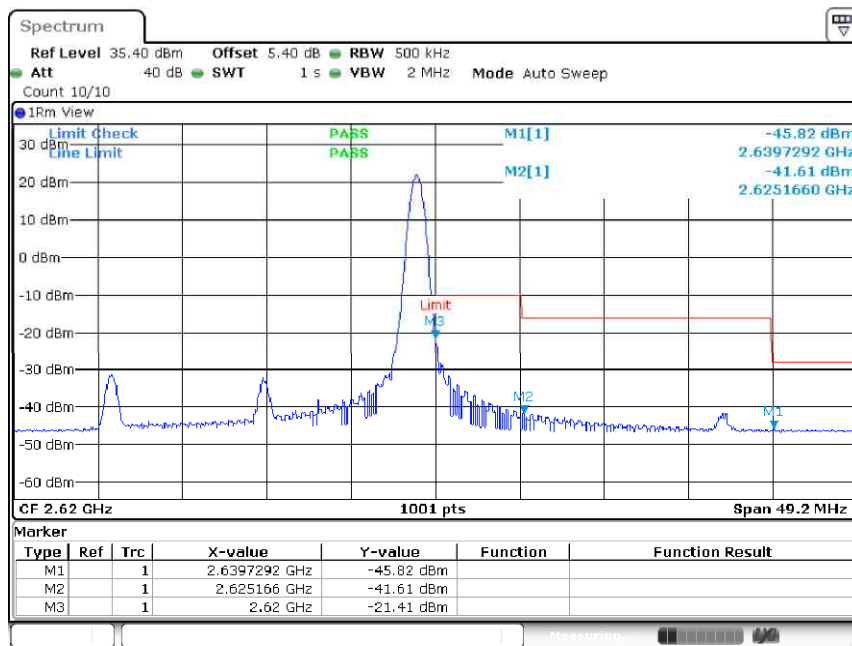


Band38-20MHz-64QAM-37850-100RB#0



Date: 15.AUG.2020 02:45:04

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

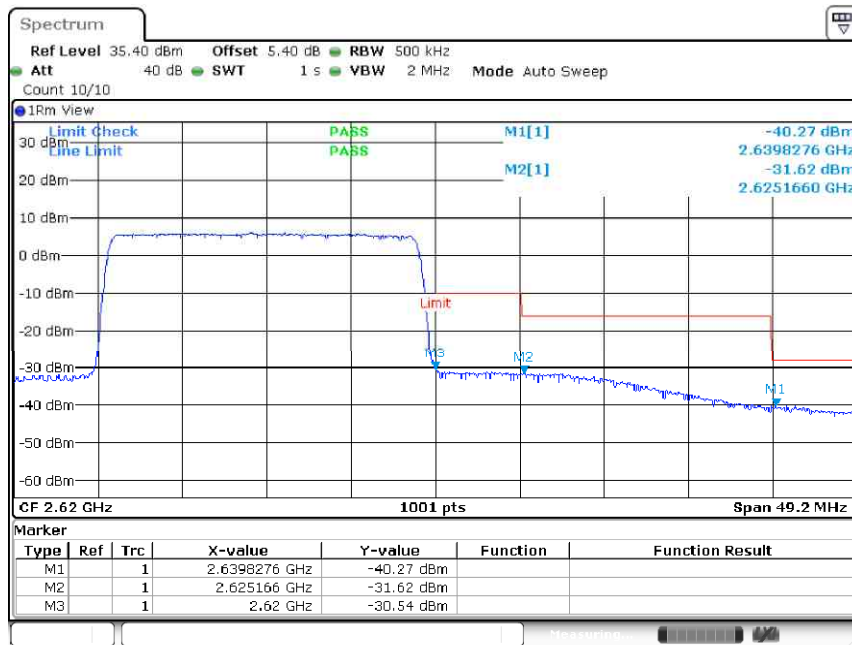


Date: 15.AUG.2020 02:44:37



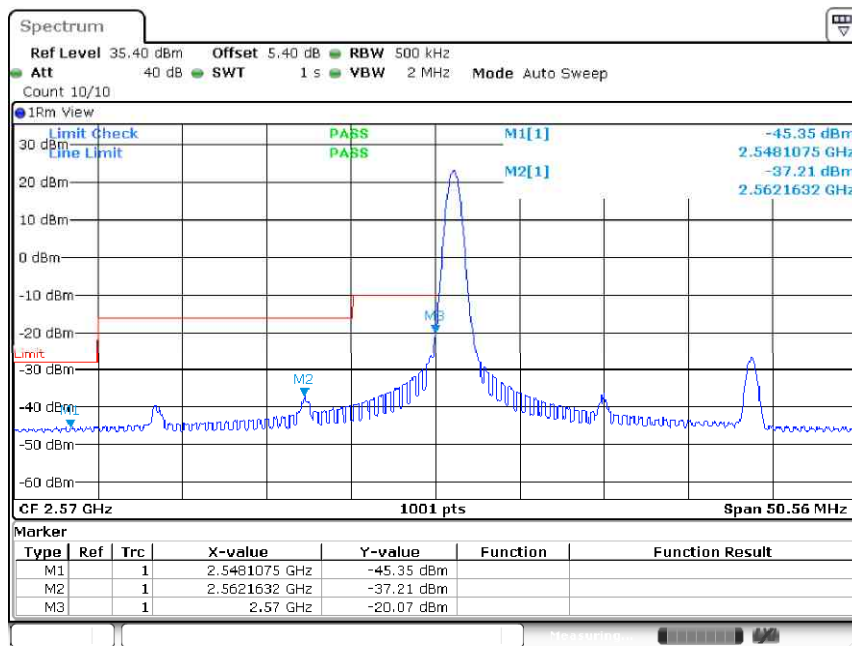
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 15.AUG.2020 02:45:26

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



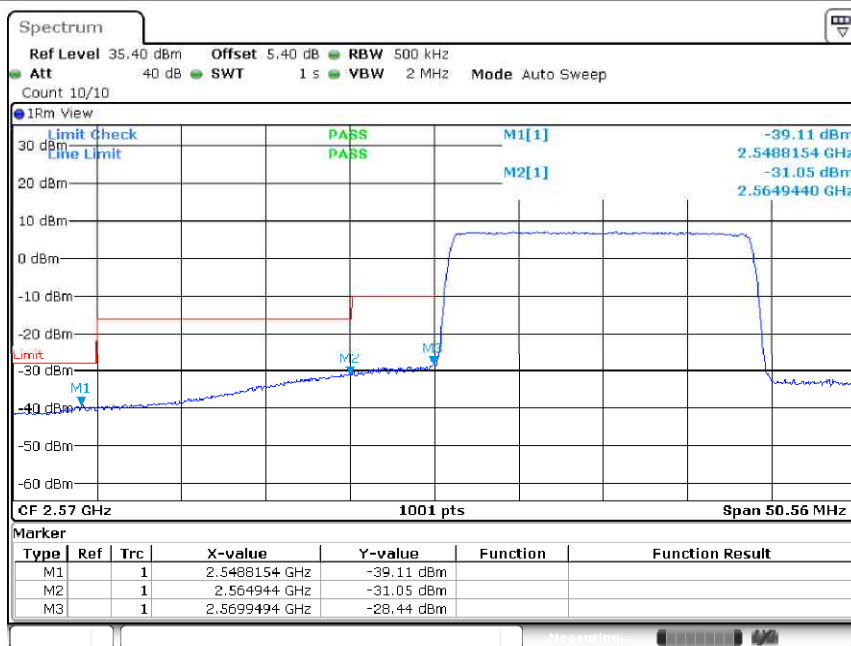
Date: 15.AUG.2020 00:33:12



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.

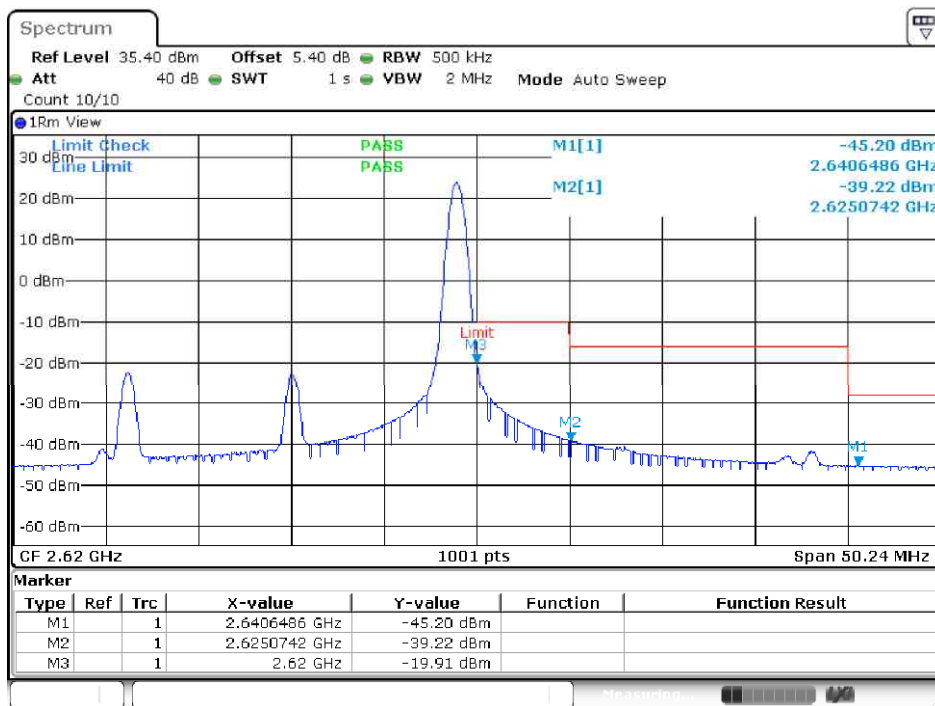


Band38-20MHz-16QAM-37850-100RB#0



Date: 16.AUG.2020 00:34:47

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



Date: 28.AUG.2020 10:45:18



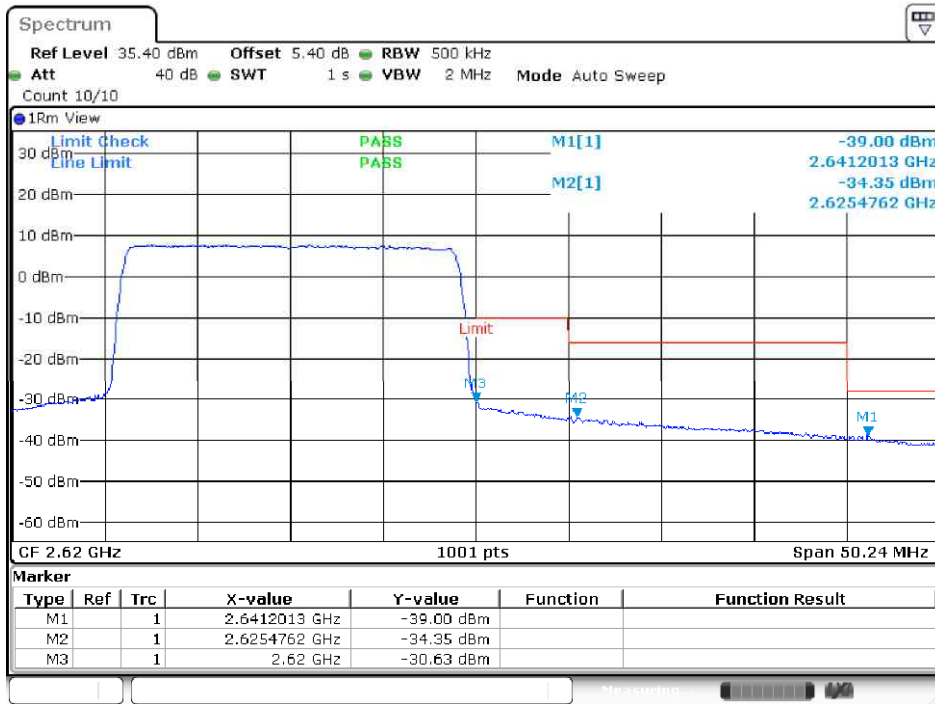
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.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-38150-100RB#0



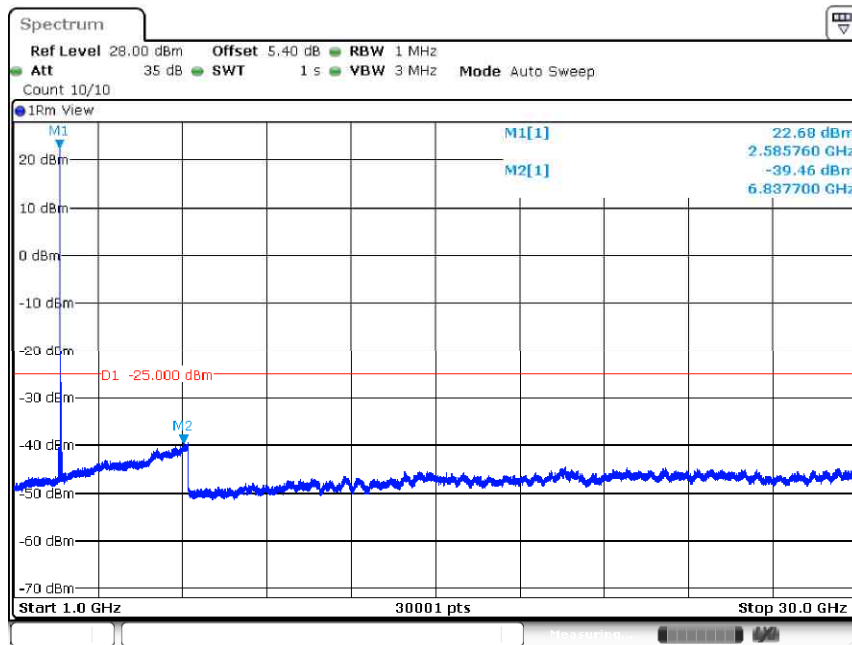
Date: 28.AUG.2020 10:46:35



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.

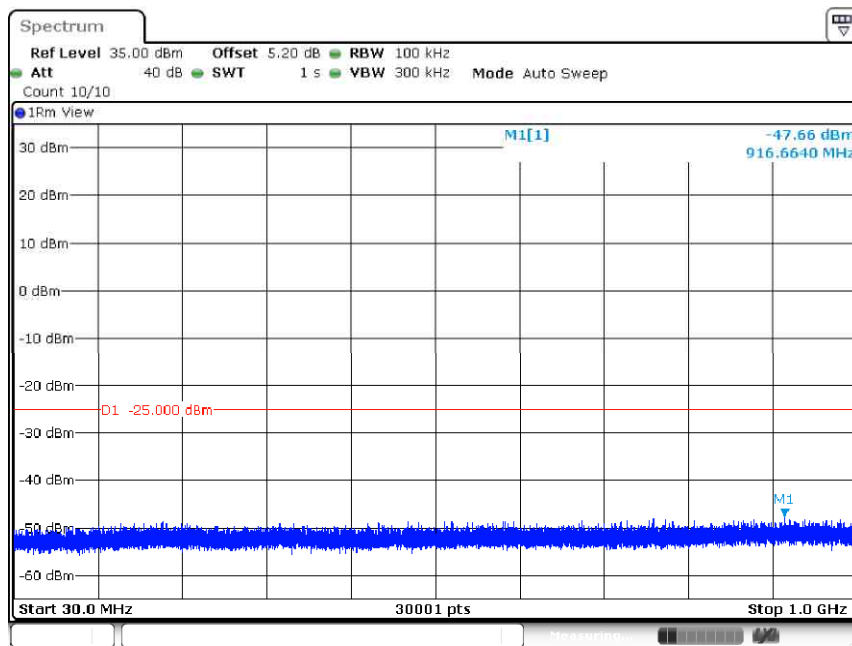


Band38-20MHz-QPSK-38000-1RB#0-Range2:1000-30000MHz



Date: 15.AUG.2020 00:37:22

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



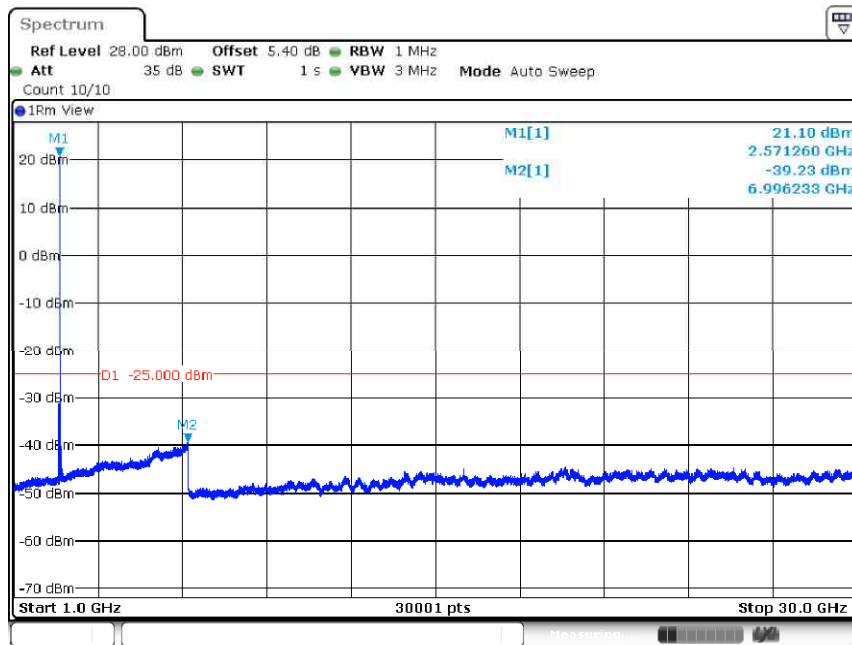
Date: 15.AUG.2020 00:38:17



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-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

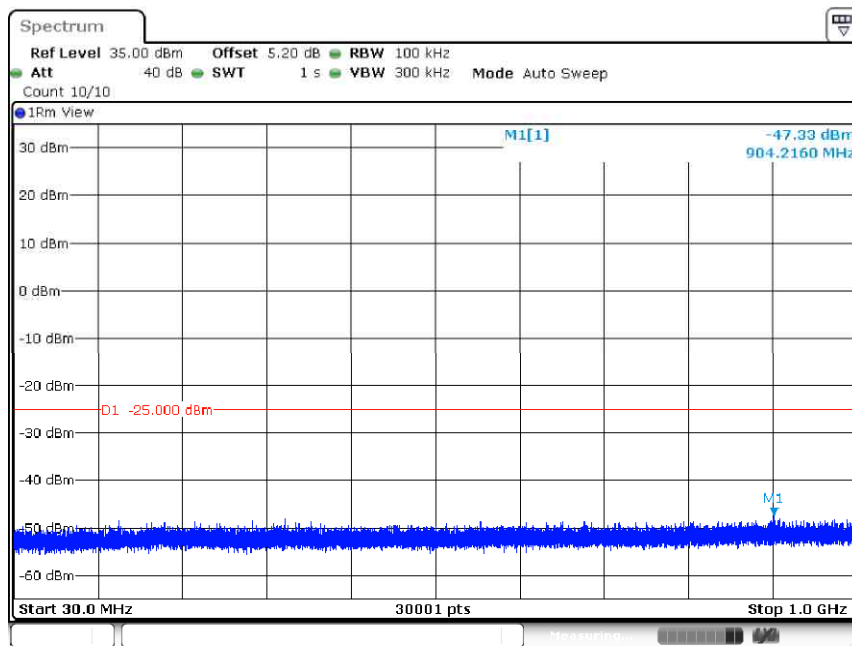


Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 02:48:07

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



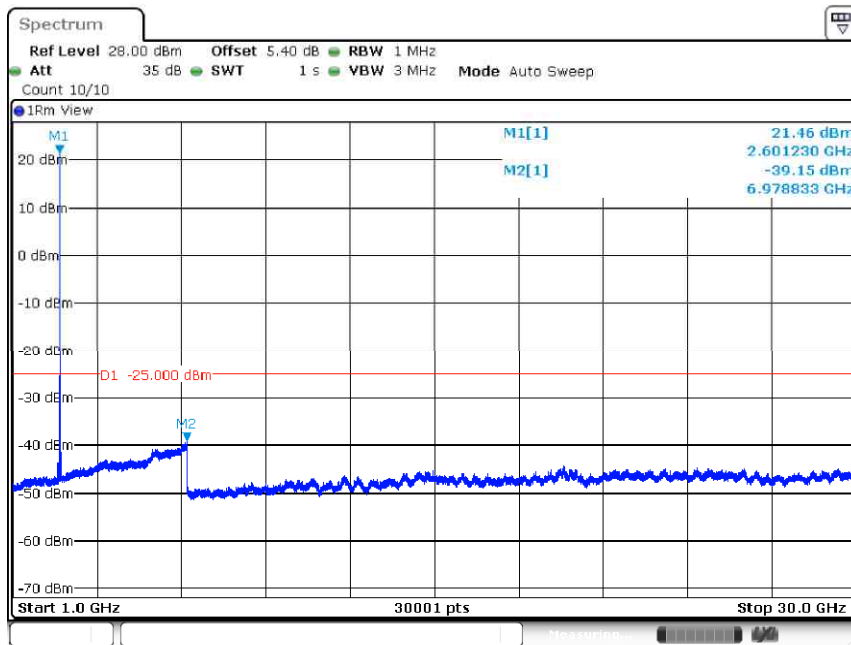
Date: 15.AUG.2020 02:46:26



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

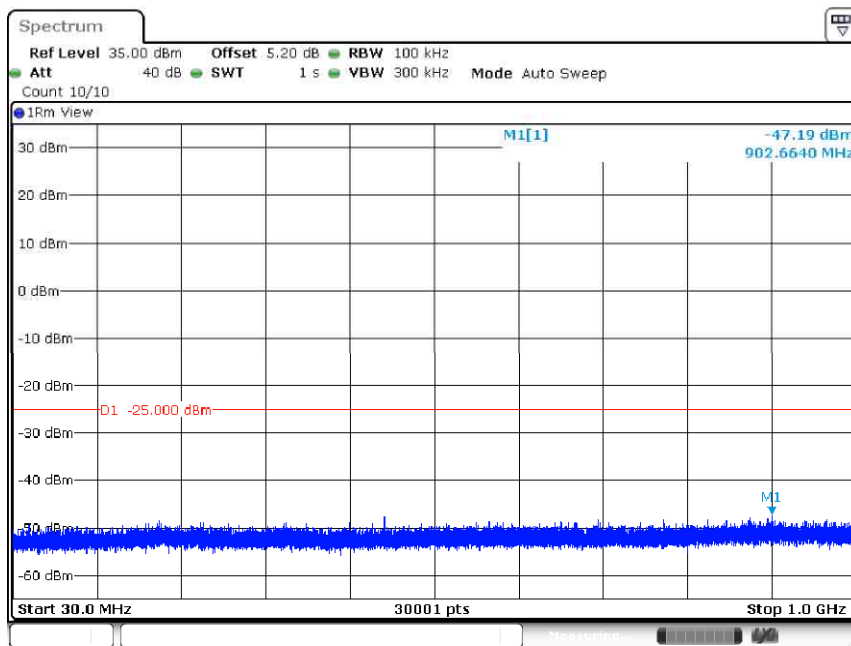


Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 02:47:18

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



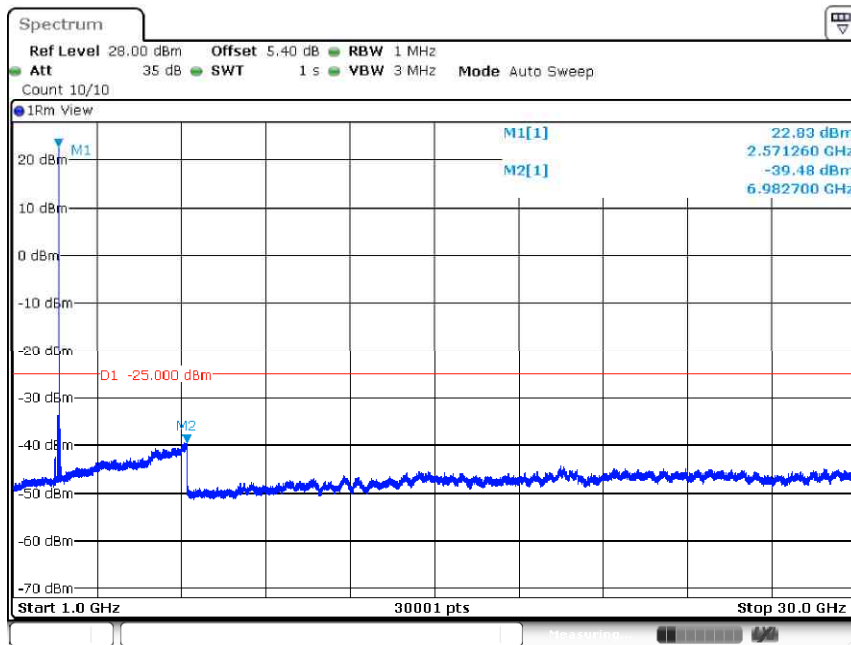
Date: 15 AUG 2020 00:36:30



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

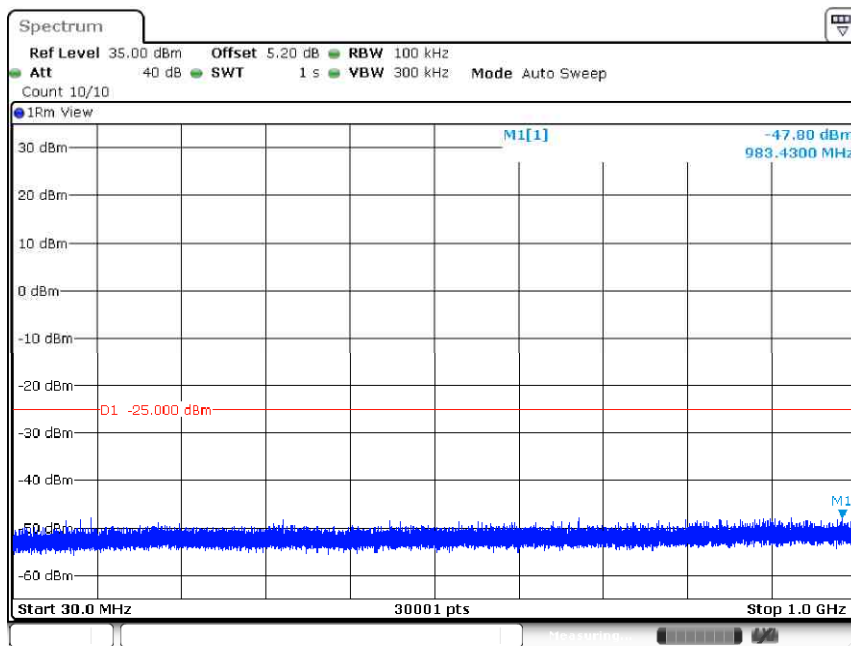


Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 00:38:47

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

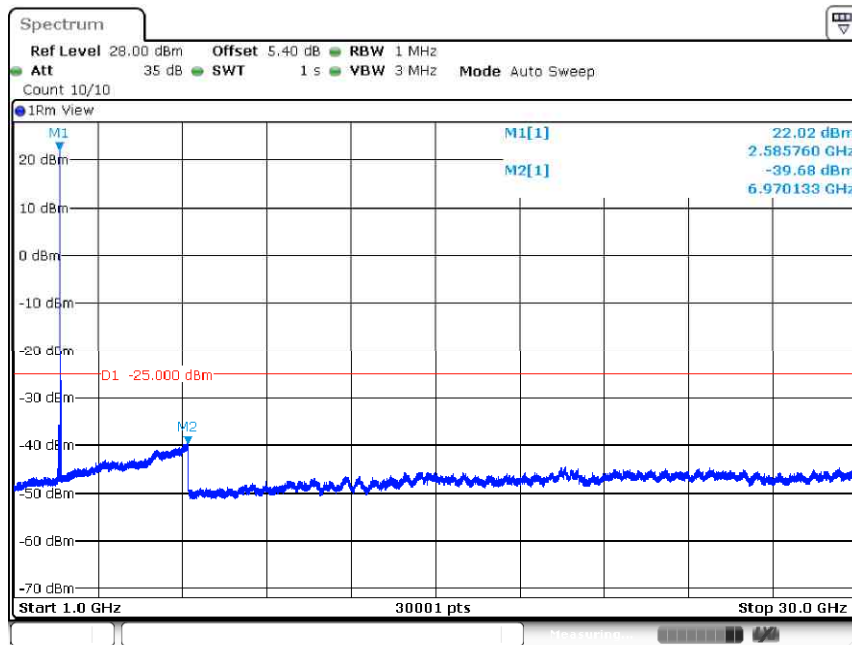


Date: 15.AUG.2020 00:37:41



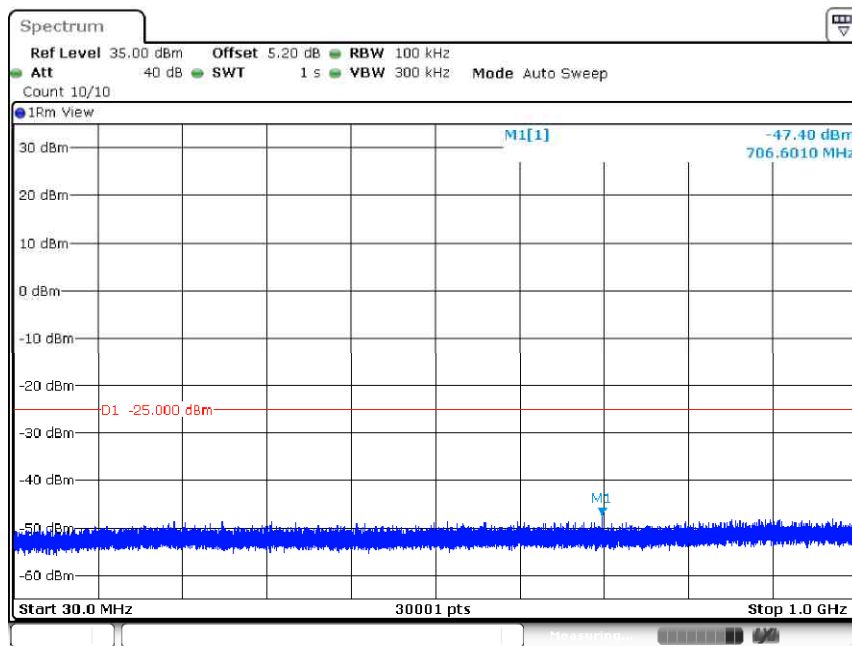
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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: 15 AUG 2020 00:37:58

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



Date: 15 AUG 2020 00:38:52



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.

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. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz(Up Antenna)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.7405	-71.12	-25.00	46.12	Vertical
113.9092	-64.38	-25.00	39.38	Vertical
340.4640	-67.93	-25.00	42.93	Vertical
5142.0714	-52.97	-25.00	27.97	Vertical
9331.7111	-52.50	-25.00	27.50	Vertical
17995.9999	-39.97	-25.00	14.97	Vertical
39.5065	-64.65	-25.00	39.65	Horizontal
102.1716	-75.35	-25.00	50.35	Horizontal
241.5191	-68.62	-25.00	43.62	Horizontal
5142.0714	-54.90	-25.00	29.90	Horizontal
10393.2464	-52.74	-25.00	27.74	Horizontal
16394.9465	-43.84	-25.00	18.84	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.3154	-71.13	-25.00	46.13	Vertical
109.7865	-64.69	-25.00	39.69	Vertical
610.2830	-63.87	-25.00	38.87	Vertical
5172.0724	-53.04	-25.00	28.04	Vertical
10072.2357	-52.19	-25.00	27.19	Vertical
17996.9999	-40.28	-25.00	15.28	Vertical
41.3011	-63.71	-25.00	38.71	Horizontal
87.8149	-73.87	-25.00	48.87	Horizontal
229.0540	-68.07	-25.00	43.07	Horizontal
5172.0724	-54.17	-25.00	29.17	Horizontal
9320.2107	-52.54	-25.00	27.54	Horizontal
16400.4467	-44.06	-25.00	19.06	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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.9758	-73.66	-25.00	48.66	Vertical
111.1446	-64.83	-25.00	39.83	Vertical
287.6934	-68.92	-25.00	43.92	Vertical
5202.0734	-55.09	-25.00	30.09	Vertical
10590.7530	-51.21	-25.00	26.21	Vertical
17997.9999	-40.77	-25.00	15.77	Vertical
43.5807	-64.03	-25.00	39.03	Horizontal
108.8649	-75.81	-25.00	50.81	Horizontal
232.7401	-68.00	-25.00	43.00	Horizontal
5202.0734	-56.34	-25.00	31.34	Horizontal
9309.7103	-52.64	-25.00	27.64	Horizontal
16403.4468	-44.01	-25.00	19.01	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.



7.2. Test Mode =LTE/TM1 20MHz(Down Antenna)

7.2.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.6296	-65.64	-25.00	40.64	Vertical
563.0417	-66.23	-25.00	41.23	Vertical
1798.5597	-44.27	-25.00	19.27	Vertical
5142.0714	-53.10	-25.00	28.10	Vertical
14475.3825	-47.86	-25.00	22.86	Vertical
17992.9998	-40.42	-25.00	15.42	Vertical
43.2412	-63.60	-25.00	38.60	Horizontal
230.7030	-67.88	-25.00	42.88	Horizontal
1806.9614	-43.58	-25.00	18.58	Horizontal
5142.0714	-55.14	-25.00	30.14	Horizontal
12934.8312	-50.33	-25.00	25.33	Horizontal
16392.4464	-44.12	-25.00	19.12	Horizontal

7.2.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.3343	-65.30	-25.00	40.30	Vertical
617.3159	-63.99	-25.00	38.99	Vertical
1782.5565	-44.31	-25.00	19.31	Vertical
5172.0724	-54.17	-25.00	29.17	Vertical
14460.8820	-47.98	-25.00	22.98	Vertical
17996.4999	-40.57	-25.00	15.57	Vertical
41.9801	-63.70	-25.00	38.70	Horizontal
245.3508	-67.87	-25.00	42.87	Horizontal
1598.9198	-45.11	-25.00	20.11	Horizontal
5172.0724	-55.75	-25.00	30.75	Horizontal
12886.3295	-50.20	-25.00	25.20	Horizontal
16399.4466	-43.81	-25.00	18.81	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

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



7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.0105	-66.06	-25.00	41.06	Vertical
508.2824	-65.35	-25.00	40.35	Vertical
1728.9458	-44.28	-25.00	19.28	Vertical
5202.0734	-55.17	-25.00	30.17	Vertical
14453.8818	-48.18	-25.00	23.18	Vertical
17996.4999	-40.63	-25.00	15.63	Vertical
46.9273	-64.39	-25.00	39.39	Horizontal
225.8043	-69.92	-25.00	44.92	Horizontal
1801.3603	-43.61	-25.00	18.61	Horizontal
5202.0734	-56.11	-25.00	31.11	Horizontal
12937.3312	-50.42	-25.00	25.42	Horizontal
16401.4467	-44.04	-25.00	19.04	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-5.10	-0.001977	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-8.00	-0.003083	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-8.20	-0.003178	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-9.00	-0.003468	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-5.80	-0.002235	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-10.90	-0.004176	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.30	-0.002797	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-8.80	-0.003372	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-9.60	-0.003721	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-8.60	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-9.30	-0.003584	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-8.70	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-6.80	-0.002605	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-5.30	-0.002031	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
------	-----------	------------	---------	--------------	---------------	------------------	----------------	-----------------	-------------	---------



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 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	QPSK	37850	100RB#0	NV	-30	-9.20	-0.003566	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-4.60	-0.001783	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-7.50	-0.002907	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-6.30	-0.002442	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-5.50	-0.002132	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-8.40	-0.003256	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-6.10	-0.002351	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-10.20	-0.003931	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-6.70	-0.002582	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-9.20	-0.003525	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-8.00	-0.003065	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-7.20	-0.002759	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-8.10	-0.003103	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-8.10	-0.003140	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-5.90	-0.002287	±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	30	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-9.50	-0.003682	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-7.80	-0.003023	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-5.00	-0.001927	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-10.10	-0.003892	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-7.00	-0.002697	±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



Band38	20MHz	64QAM	38000	100RB#0	NV	40	-10.20	-0.003931	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-11.40	-0.004393	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-7.20	-0.002759	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-8.00	-0.003065	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-9.50	-0.003640	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-8.60	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	23.70	0.009186	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-6.60	-0.002558	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-6.80	-0.002636	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-6.00	-0.002326	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-9.10	-0.003507	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-3.80	-0.001464	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-8.80	-0.003391	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-8.00	-0.003083	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-7.40	-0.002852	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-8.10	-0.003121	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-8.00	-0.003083	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-6.10	-0.002337	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-5.80	-0.002222	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-8.50	-0.003257	±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
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