



Appendix B

E-UTRA Band 7



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



CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER.....3

1.1. TEST RESULT.....3

2. PEAK-TO-AVERAGE RATIO (CCDF).....9

2.1. TEST RESULT.....9

2.2. TEST PLOTS.....9

3. MODULATION CHARACTERISTICS.....13

3.1. TEST BAND = LTE BAND 7.....13

3.1.1. TEST MODE = LTE /TM1 20MHZ.....13

3.1.1.1. TEST CHANNEL = MCH.....13

3.1.2. TEST MODE = LTE /TM2 20MHZ.....14

3.1.2.1. TEST CHANNEL = MCH.....14

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....15

4.1. TEST RESULT.....15

4.2. TEST PLOTS.....16

5. BAND EDGE COMPLIANCE.....28

5.1. TEST PLOTS.....28

6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....44

6.1. TEST PLOTS.....44

7. FIELD STRENGTH OF SPURIOUS RADIATION.....50

7.1. TEST BAND = LTE BAND 7.....50

7.1.1. TEST MODE =LTE/TM1 20MHZ.....50

7.1.1.1. TEST CHANNEL = LCH.....50

7.1.1.2. TEST CHANNEL = MCH.....50

7.1.1.3. TEST CHANNEL = HCH.....51

8. FREQUENCY STABILITY.....52

8.1. FREQUENCY VS VOLTAGE.....52

8.2. FREQUENCY VS TEMPERATURE.....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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.77	23.47	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.86	23.56	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.53	23.23	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.64	22.34	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.58	22.28	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.74	23.44	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.47	23.17	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.4	23.1	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.48	22.18	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.46	22.16	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.95	22.65	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.85	23.55	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.5	23.2	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.44	23.14	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.53	22.23	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.6	22.3	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.5	22.2	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.47	22.17	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.28	21.98	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.7	22.4	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.83	22.53	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.58	21.28	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.68	21.38	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.52	21.22	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



Band7	5MHz	16QAM	20775	25RB#0	20.63	21.33	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.41	22.11	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.68	22.38	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.5	22.2	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.52	21.22	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.49	21.19	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.5	21.2	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.54	21.24	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.61	22.31	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.65	22.35	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.27	21.97	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.56	21.26	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.65	21.35	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.48	21.18	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.5	21.2	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.84	23.54	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.63	23.33	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.44	23.14	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.55	22.25	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.62	22.32	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.56	22.26	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.6	22.3	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.47	23.17	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.48	23.18	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.39	23.09	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.58	22.28	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.5	22.2	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.95	22.65	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.5	22.2	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.4	23.1	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.59	22.29	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.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



Band7	10MHz	QPSK	21400	25RB#25	21.58	22.28	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.67	22.37	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.53	22.23	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.84	22.54	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.66	22.36	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.89	22.59	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.58	21.28	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.65	21.35	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.55	21.25	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.58	21.28	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.59	22.29	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.95	22.65	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.45	21.15	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.51	21.21	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.54	21.24	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.52	21.22	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.06	22.76	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.62	21.32	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.45	21.15	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.55	21.25	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.53	21.23	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.94	23.64	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.89	23.59	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.46	23.16	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.14	22.84	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.59	22.29	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.54	22.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.35	23.05	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.47	23.17	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



Band7	15MHz	QPSK	21100	1RB#38	22.39	23.09	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.57	22.27	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.60	22.3	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.56	22.26	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.31	23.01	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.65	23.35	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.43	23.13	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.59	22.29	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.65	22.35	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.56	22.26	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.39	22.09	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.92	22.62	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.62	22.32	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.57	21.27	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.52	21.22	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.62	21.32	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.50	21.2	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.47	22.17	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.06	22.76	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.84	22.54	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.58	21.28	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.87	22.57	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.76	22.46	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.51	22.21	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.52	21.22	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.65	21.35	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.64	21.34	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



Band7	20MHz	QPSK	20850	1RB#99	22.71	23.41	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.72	23.42	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.16	22.86	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.58	22.28	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.71	22.41	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.6	22.3	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.49	22.19	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.18	22.88	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.46	23.16	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.27	22.97	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.56	22.26	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.5	22.2	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.52	22.22	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.5	22.2	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.25	22.95	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.64	23.34	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.35	23.05	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.57	22.27	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.66	22.36	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.7	22.4	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.58	22.28	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.71	22.41	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.14	22.84	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.71	22.41	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.48	21.18	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.68	21.38	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.57	21.27	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.56	21.26	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.66	22.36	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.62	22.32	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.75	22.45	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.45	21.15	33.00	FAIL
Band7	20MHz	16QAM	21100	50RB#0	20.6	21.3	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.

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



Band7	20MHz	16QAM	21100	50RB#25	20.54	21.24	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.55	21.25	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.3	22	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.67	22.37	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.24	21.94	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.61	21.31	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.69	21.39	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.72	21.42	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.53	21.23	33.00	PASS

Remark:

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

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

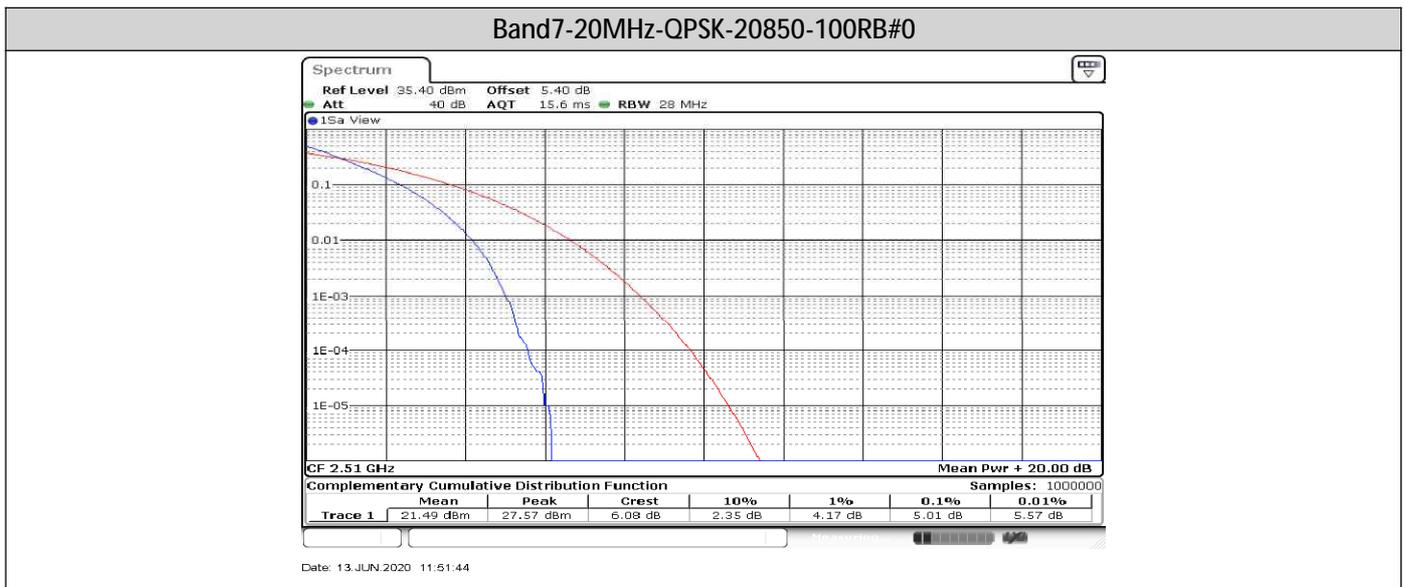


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.01	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.19	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.13	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.91	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

2.2. Test Plots

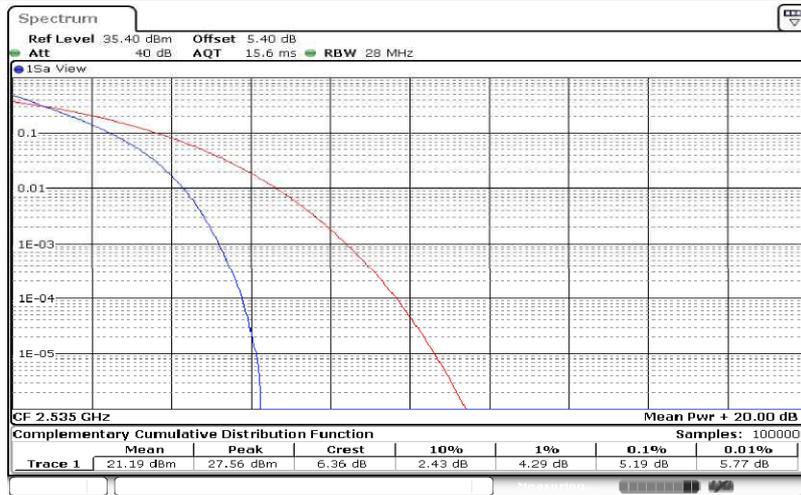


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

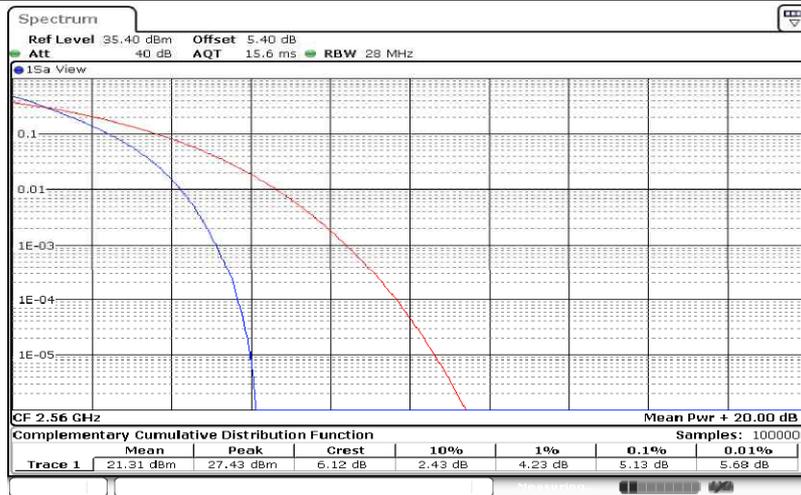


Band7-20MHz-QPSK-21100-100RB#0



Date: 13 JUN 2020 11:52:06

Band7-20MHz-QPSK-21350-100RB#0



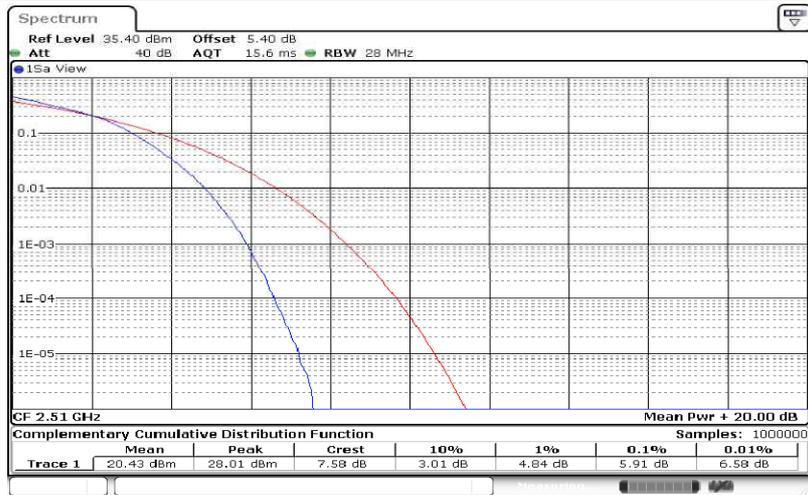
Date: 13 JUN 2020 11:52:29



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.

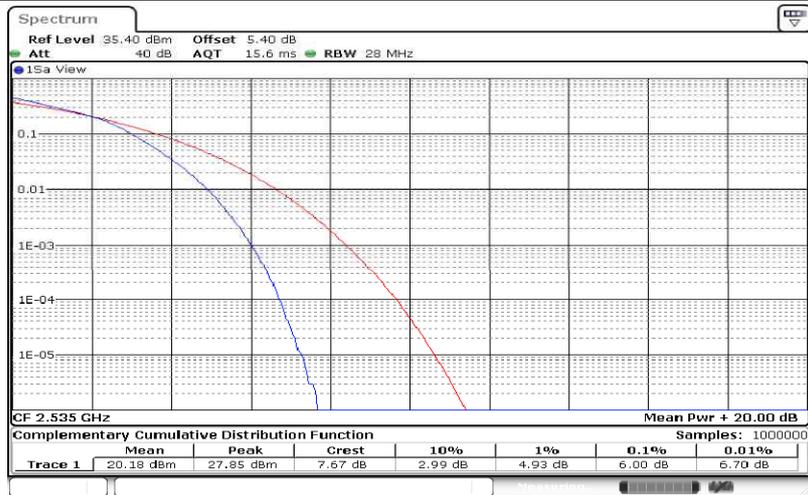
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band7-20MHz-16QAM-20850-100RB#0



Date: 13 JUN 2020 11:51:55

Band7-20MHz-16QAM-21100-100RB#0



Date: 13 JUN 2020 11:52:17



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



Band7-20MHz-16QAM-21350-100RB#0



Date: 13 JUN 2020 11:52:40



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.

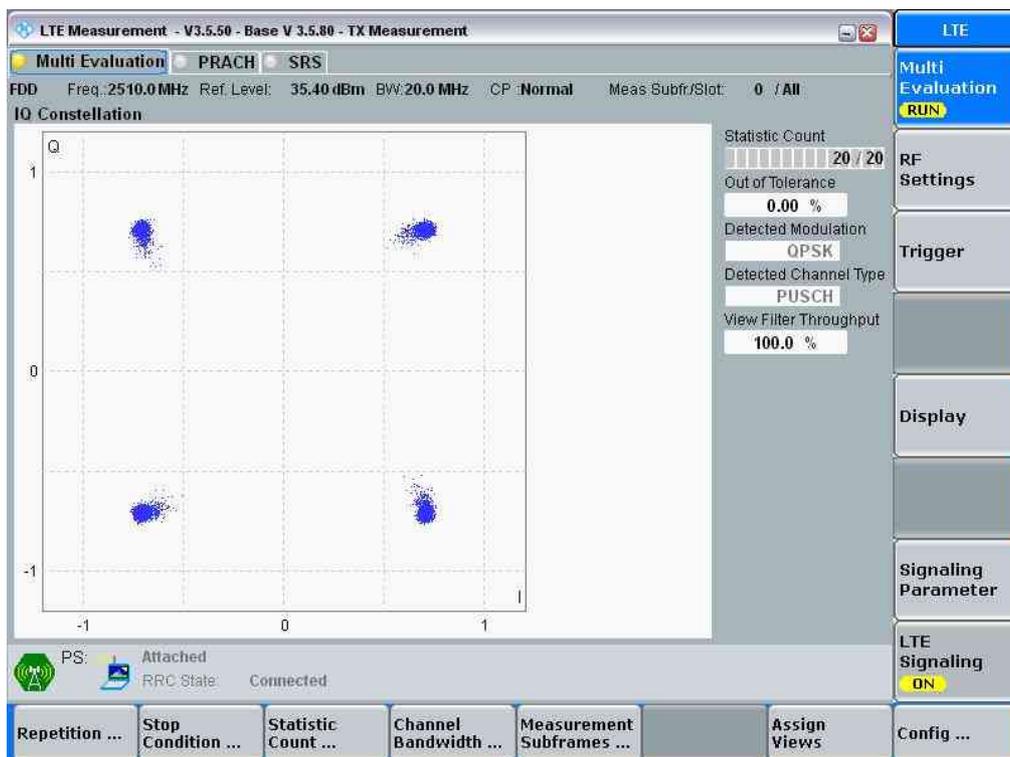


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH

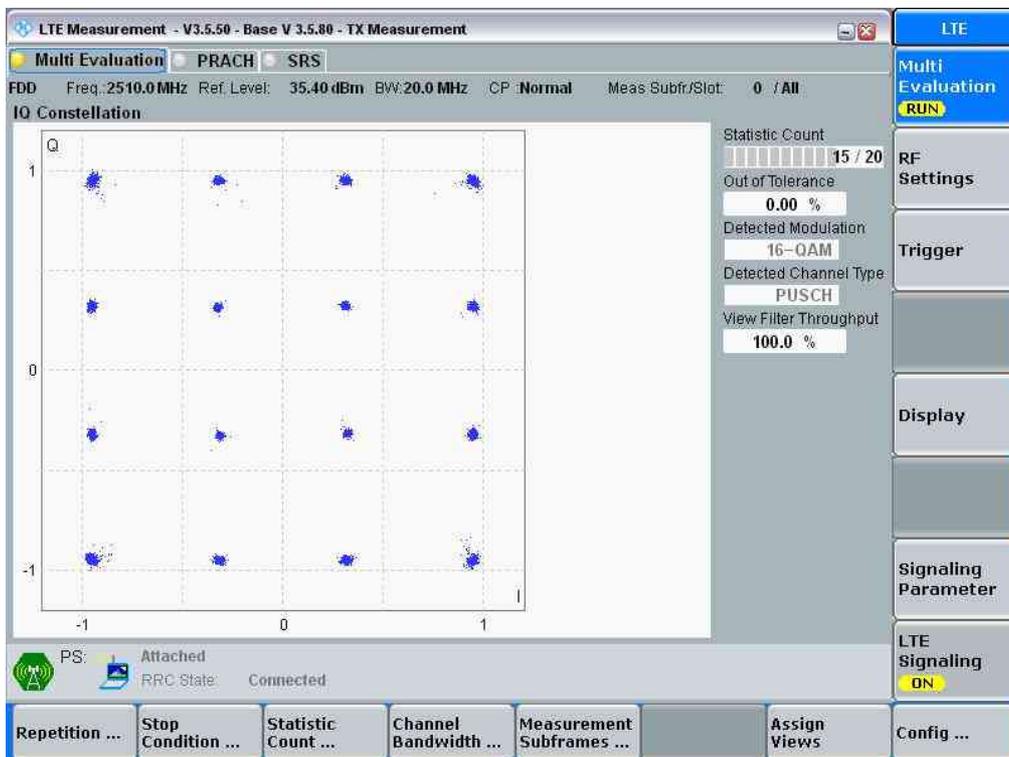


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. 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-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



4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.830	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.770	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.770	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.790	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.750	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.860	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.600	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.951	9.420	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.420	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.440	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.606	14.640	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.606	14.610	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.606	14.640	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.640	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.670	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.062	19.000	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.062	19.160	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.280	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.120	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.320	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.062	19.040	PASS



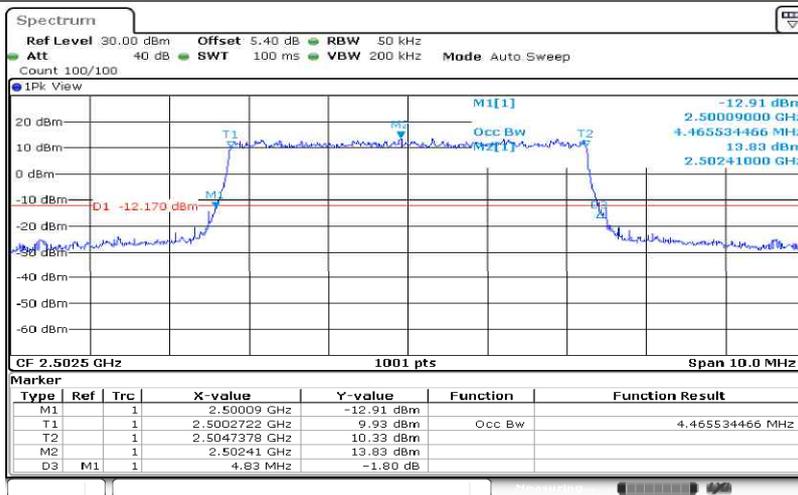
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



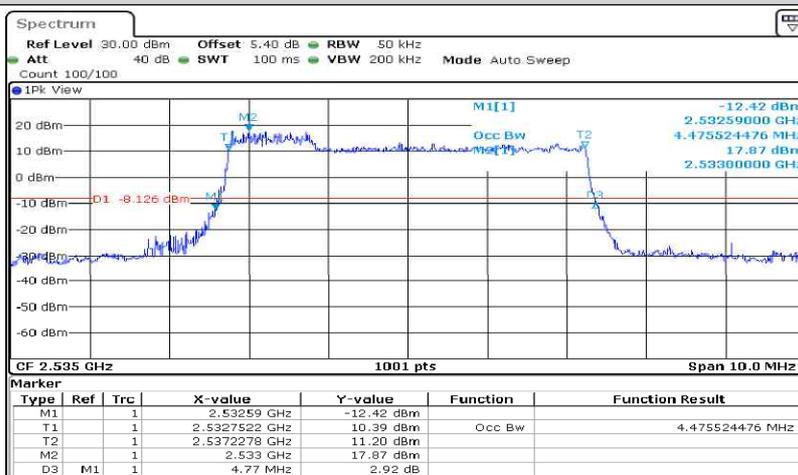
4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



Date: 13 JUN 2020 11:30:03

Band7-5MHz-QPSK-21100-25RB#0-4.476



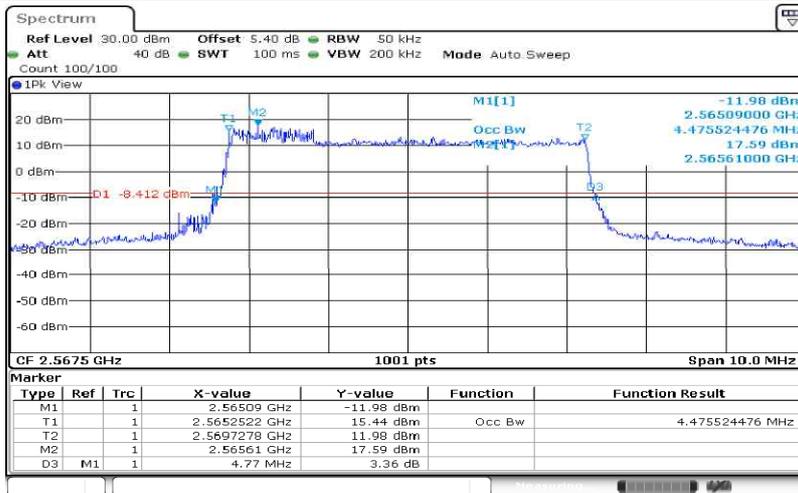
Date: 13 JUN 2020 11:30:42



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.

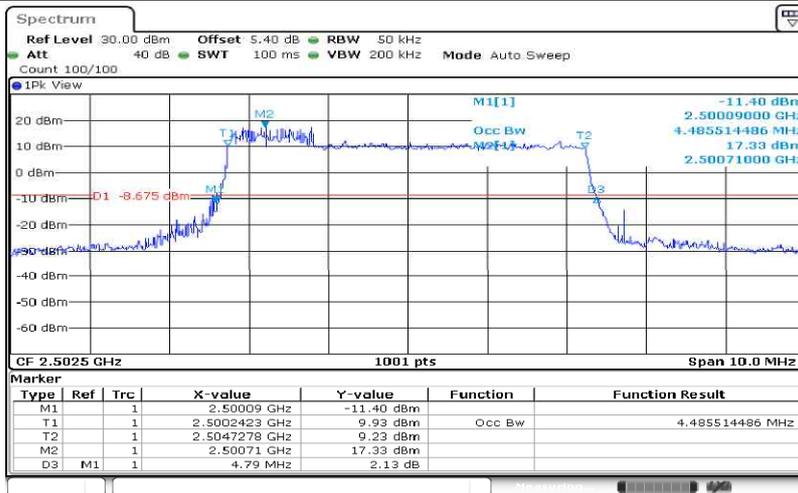


Band7-5MHz-QPSK-21425-25RB#0-4.476



Date: 13 JUN 2020 11:31:22

Band7-5MHz-16QAM-20775-25RB#0-4.486



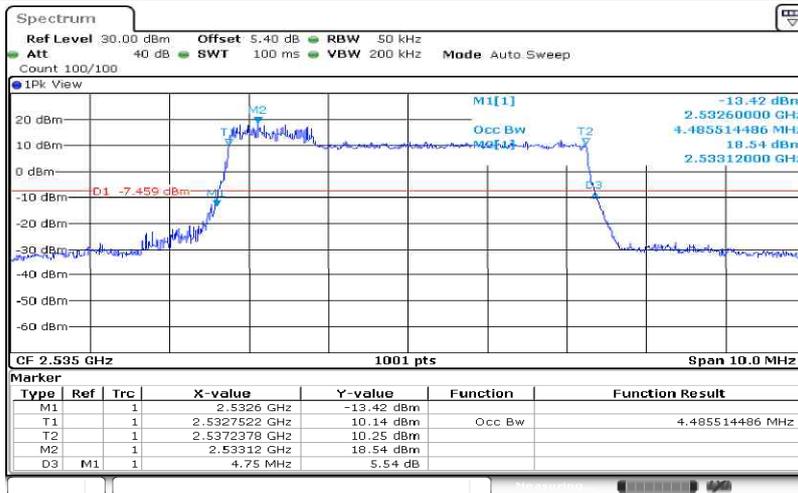
Date: 13 JUN 2020 11:30:22



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



Band7-5MHz-16QAM-21100-25RB#0-4.486



Band7-5MHz-16QAM-21425-25RB#0-4.486

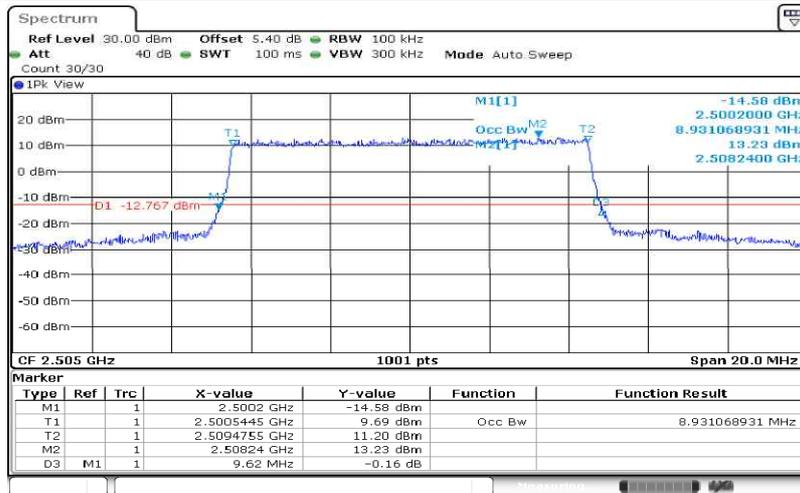


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

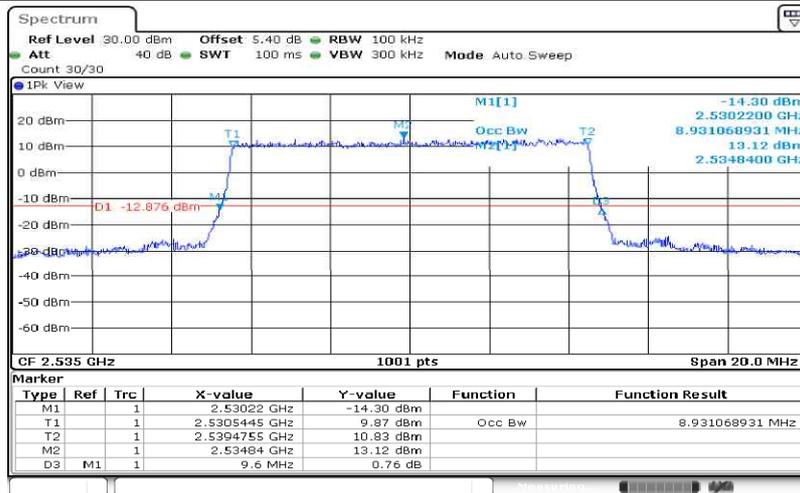


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 13 JUN 2020 11:31:59

Band7-10MHz-QPSK-21100-50RB#0-8.931



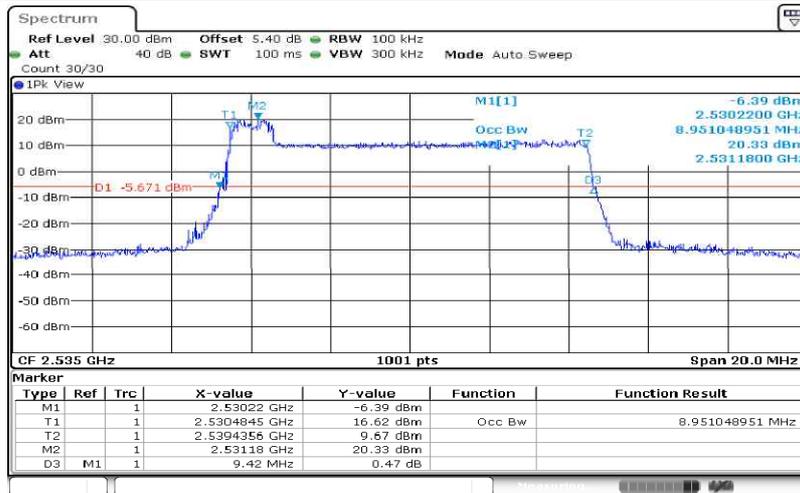
Date: 13 JUN 2020 11:32:24



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.

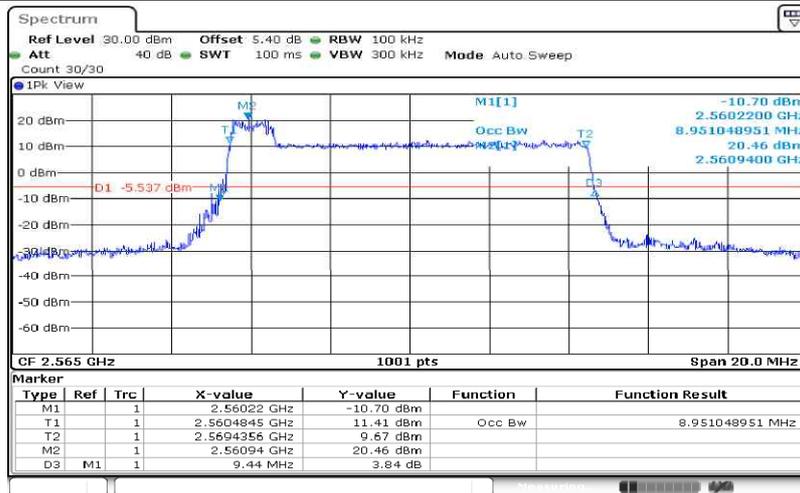


Band7-10MHz-16QAM-21100-50RB#0-8.951



Date: 13 JUN 2020 11:32:37

Band7-10MHz-16QAM-21400-50RB#0-8.951



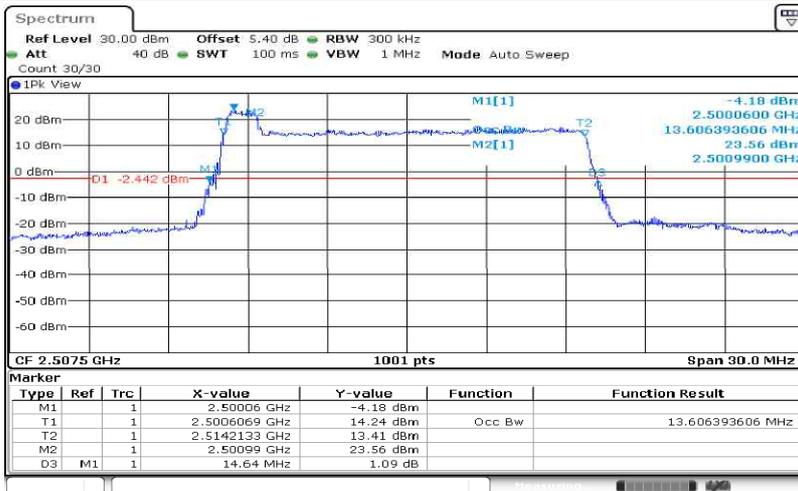
Date: 13 JUN 2020 11:33:02



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.

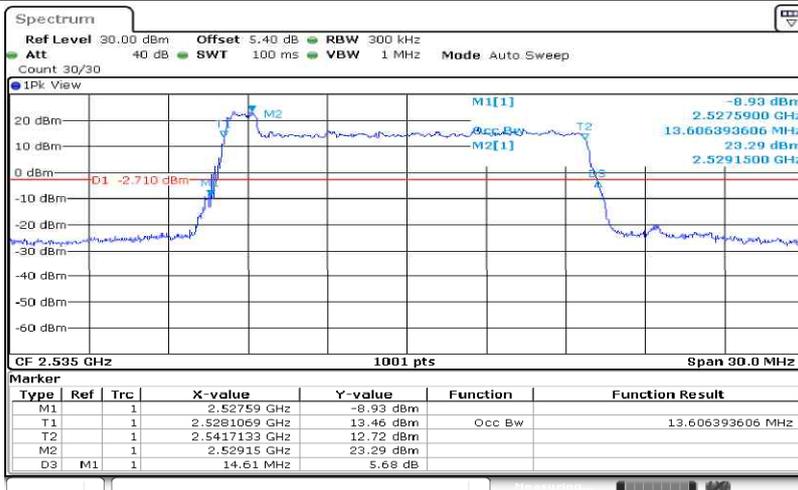


Band7-15MHz-QPSK-20825-75RB#0-13.606



Date: 13 JUN 2020 11:33:19

Band7-15MHz-QPSK-21100-75RB#0-13.606



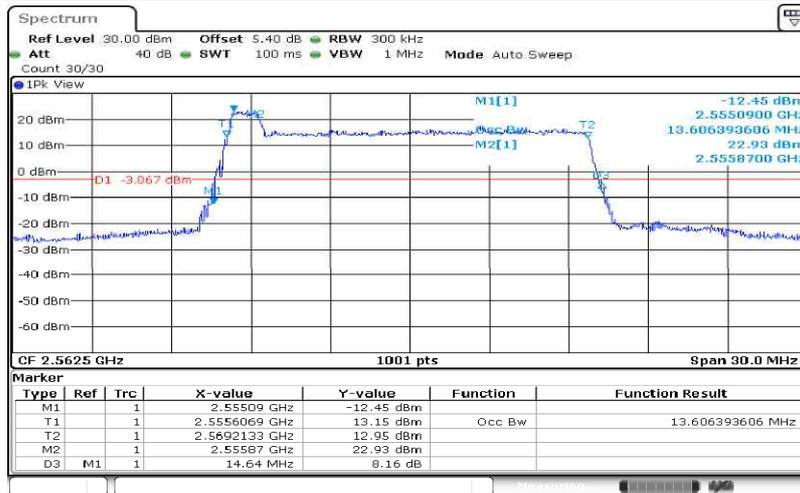
Date: 13 JUN 2020 11:33:45



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

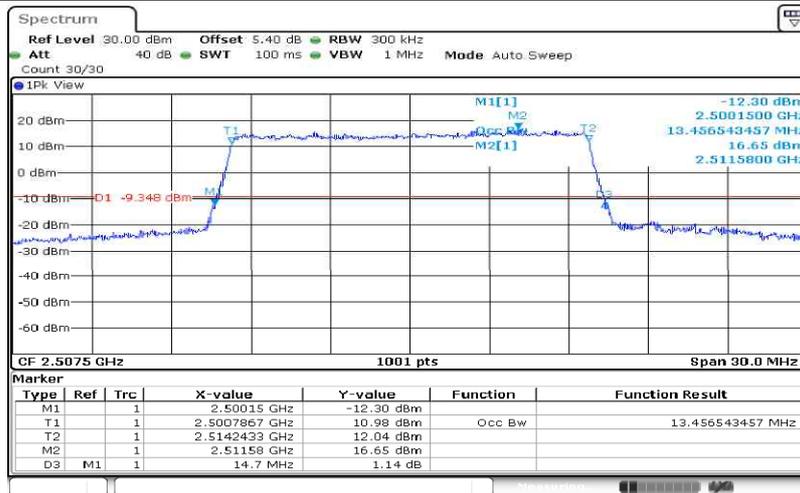


Band7-15MHz-QPSK-21375-75RB#0-13.606



Date: 13 JUN 2020 11:34:10

Band7-15MHz-16QAM-20825-75RB#0-13.457



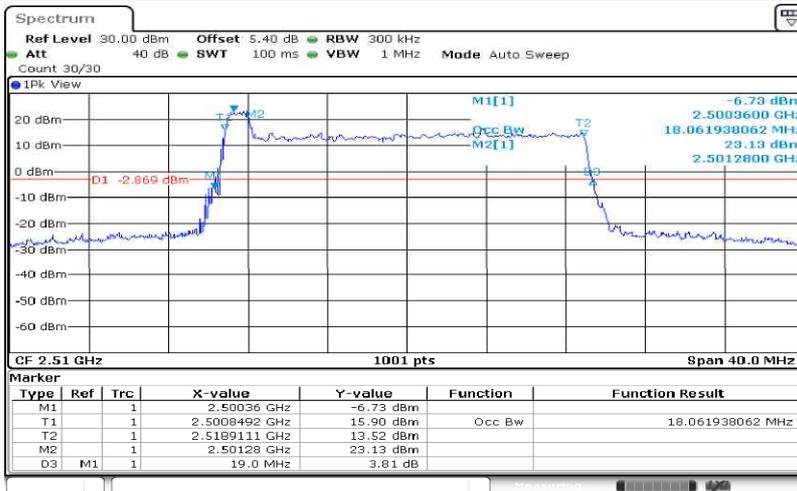
Date: 13 JUN 2020 11:33:32



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

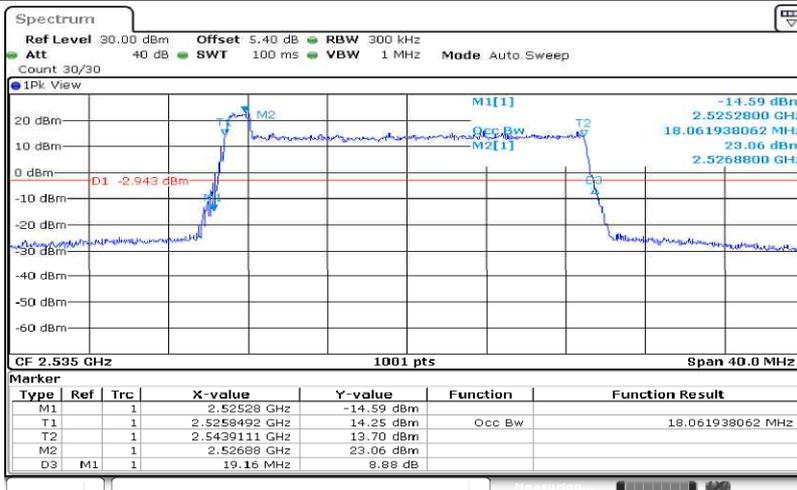


Band7-20MHz-QPSK-20850-100RB#0-18.062



Date: 13 JUN 2020 11:34:40

Band7-20MHz-QPSK-21100-100RB#0-18.062



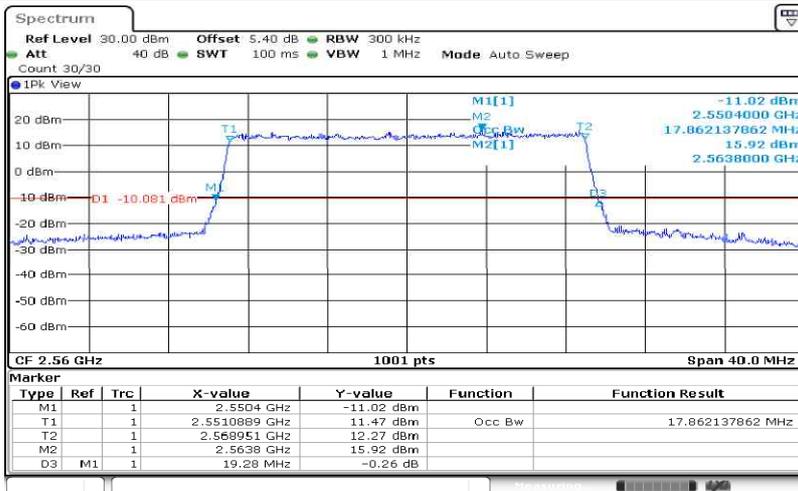
Date: 13 JUN 2020 11:35:06



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.

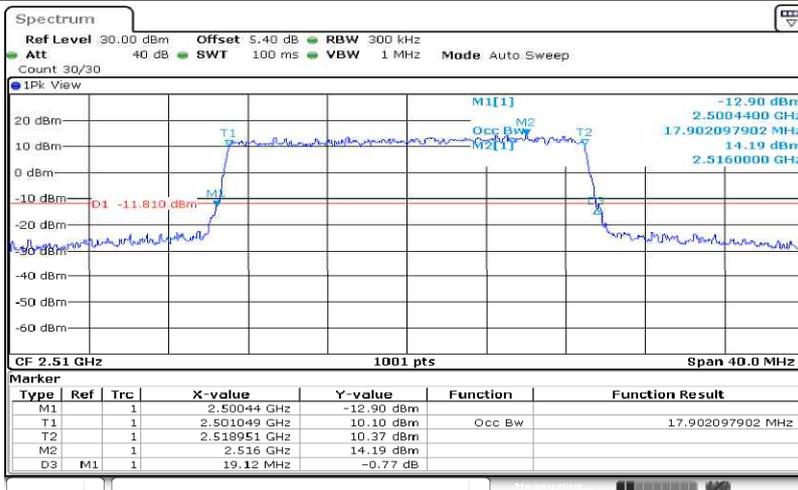


Band7-20MHz-QPSK-21350-100RB#0-17.862



Date: 13 JUN 2020 11:35:31

Band7-20MHz-16QAM-20850-100RB#0-17.902



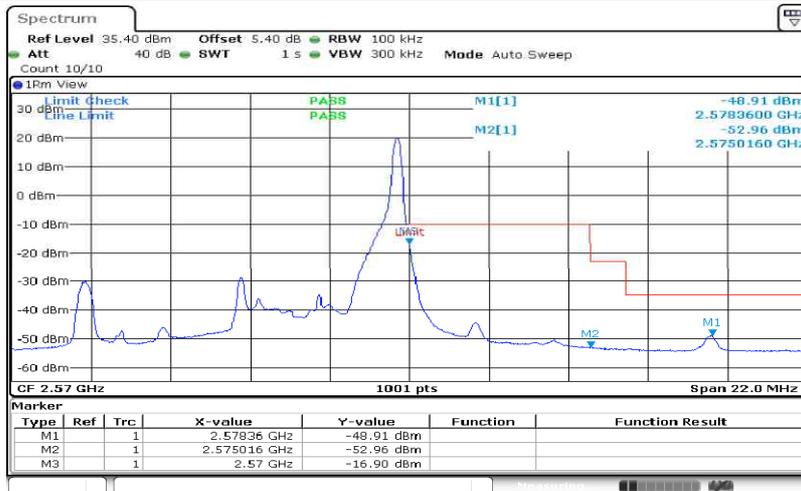
Date: 13 JUN 2020 11:34:53



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.

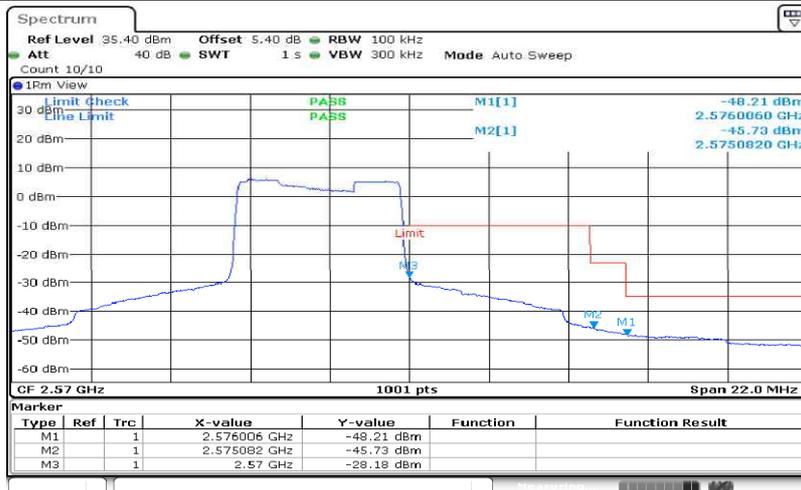


Band7-5MHz-QPSK-21425-1RB#24



Date: 13 JUN 2020 11:36:57

Band7-5MHz-QPSK-21425-25RB#0

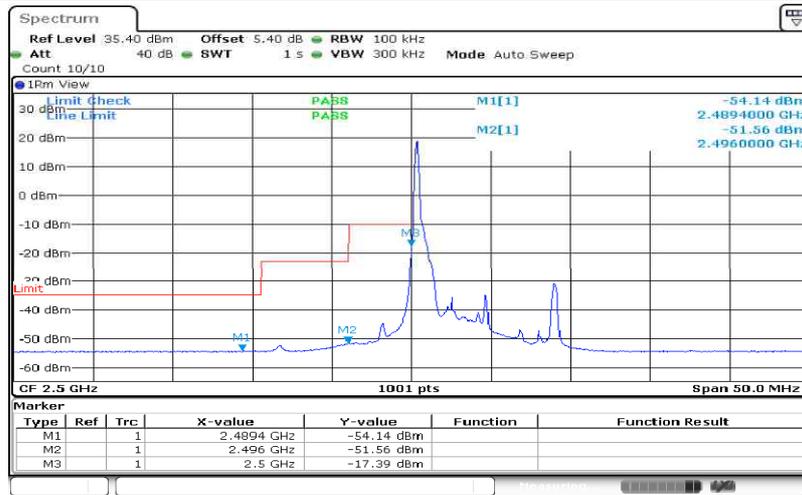


Date: 13 JUN 2020 11:38:26



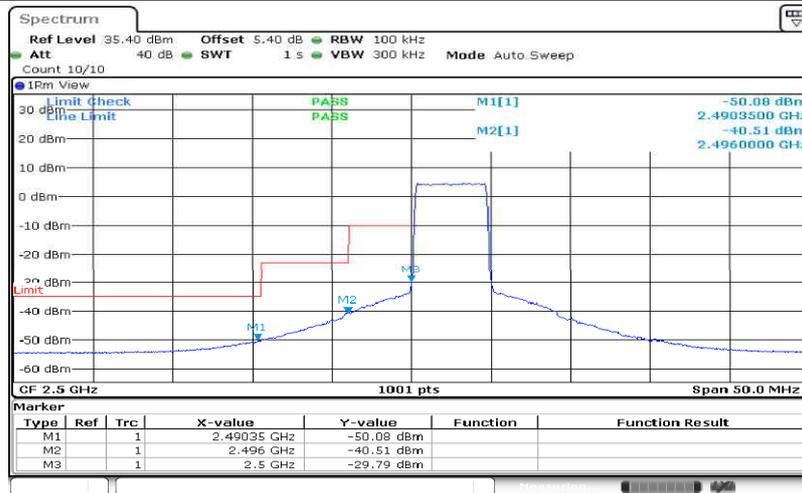
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band7-5MHz-16QAM-20775-1RB#0



Date: 13 JUN 2020 11:36:31

Band7-5MHz-16QAM-20775-25RB#0



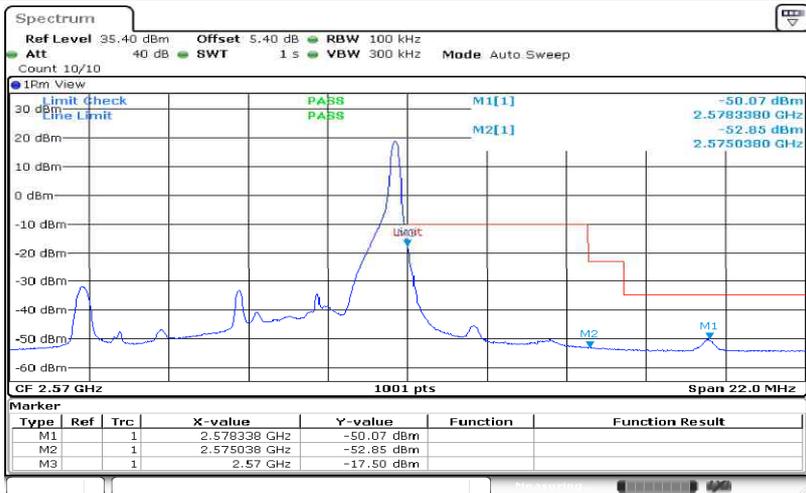
Date: 13 JUN 2020 11:38:04



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.



Band7-5MHz-16QAM-21425-1RB#24



Date: 13 JUN 2020 11:37:18

Band7-5MHz-16QAM-21425-25RB#0



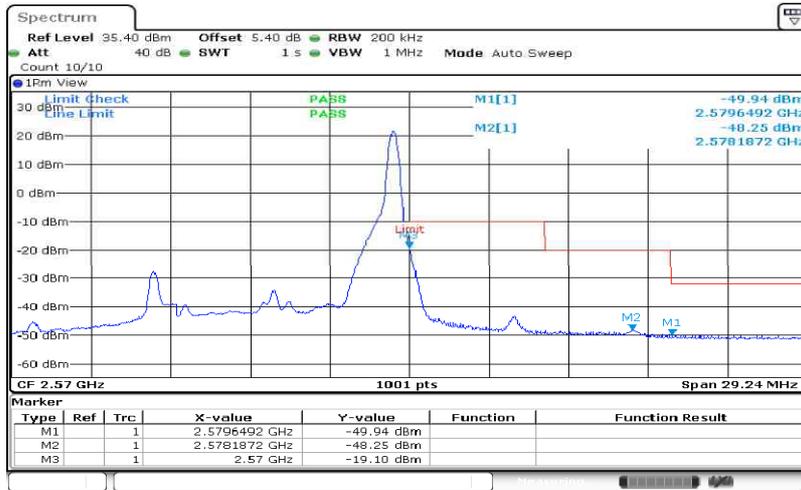
Date: 13 JUN 2020 11:38:46



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

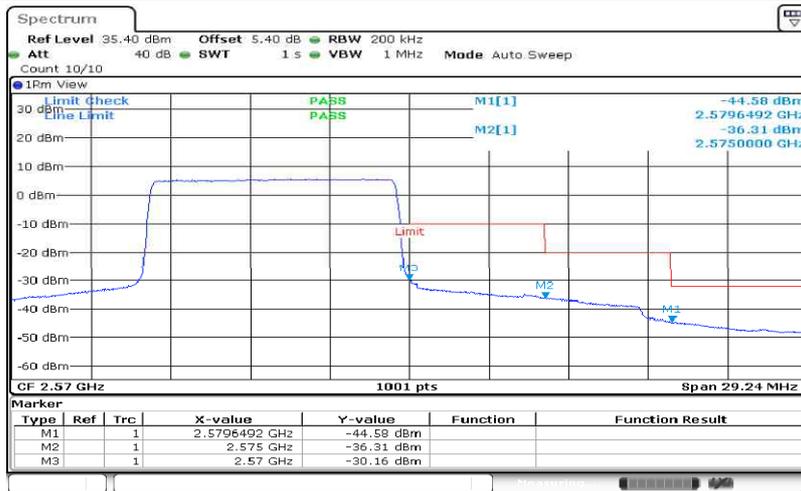


Band7-10MHz-QPSK-21400-1RB#49



Date: 13 JUN 2020 11:39:59

Band7-10MHz-QPSK-21400-50RB#0



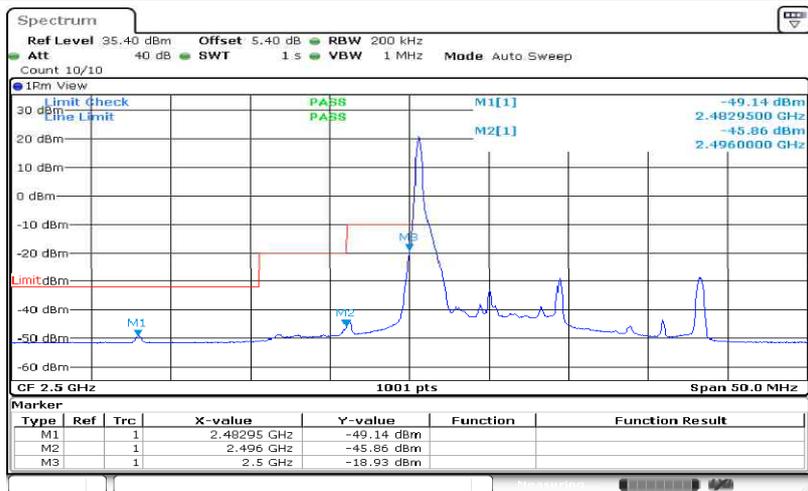
Date: 13 JUN 2020 11:41:28



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



Band7-10MHz-16QAM-20800-1RB#0



Date: 13 JUN 2020 11:39:33

Band7-10MHz-16QAM-20800-50RB#0



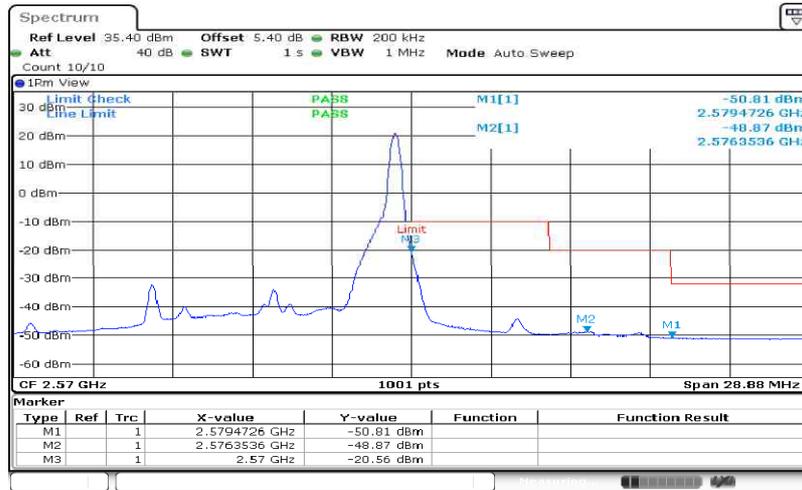
Date: 13 JUN 2020 11:41:07



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

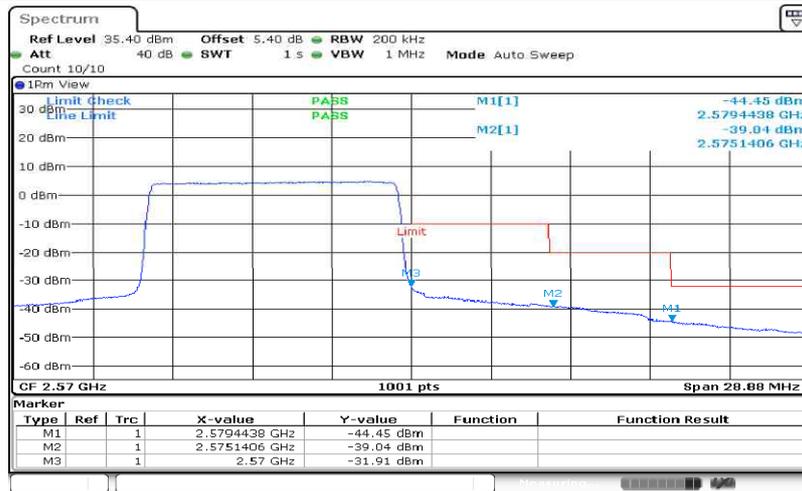


Band7-10MHz-16QAM-21400-1RB#49



Date: 13 JUN 2020 11:40:20

Band7-10MHz-16QAM-21400-50RB#0



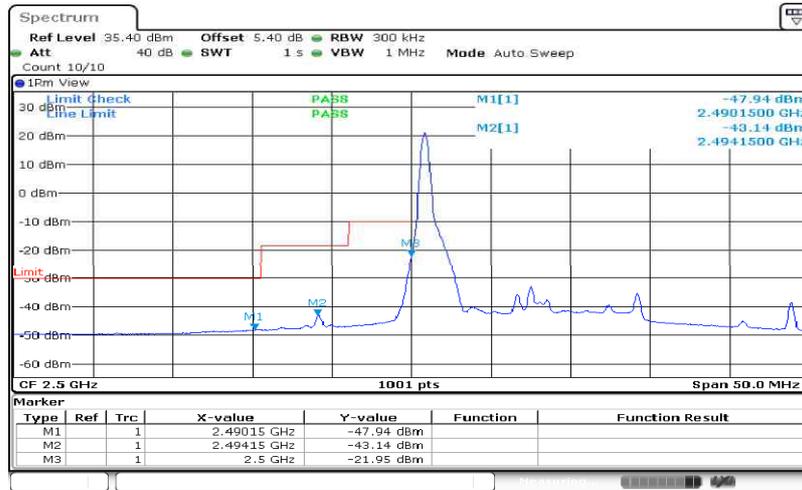
Date: 13 JUN 2020 11:41:49



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.

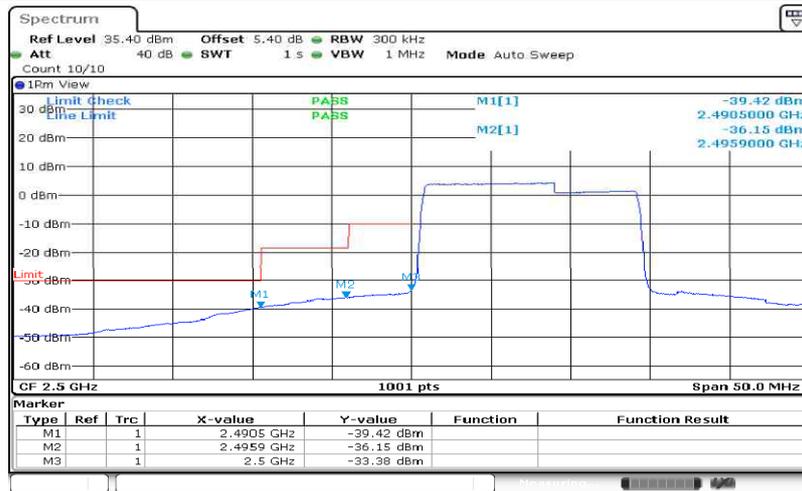


Band7-15MHz-16QAM-20825-1RB#0



Date: 13 JUN 2020 11:42:36

Band7-15MHz-16QAM-20825-75RB#0



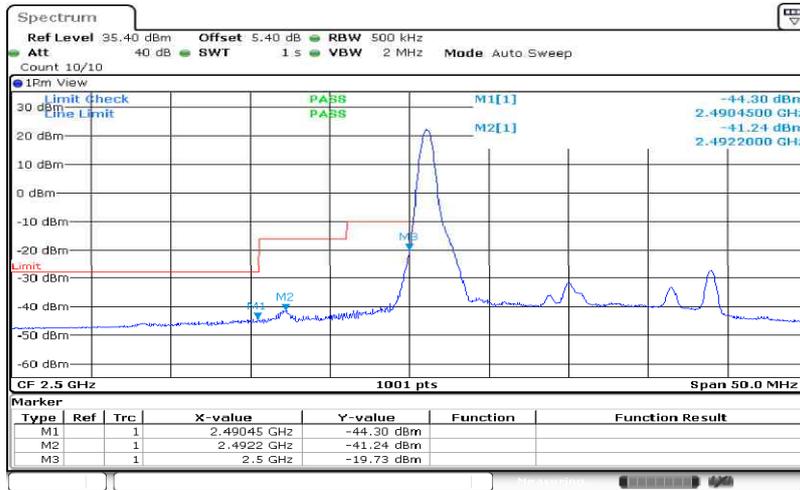
Date: 13 JUN 2020 11:44:09



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.

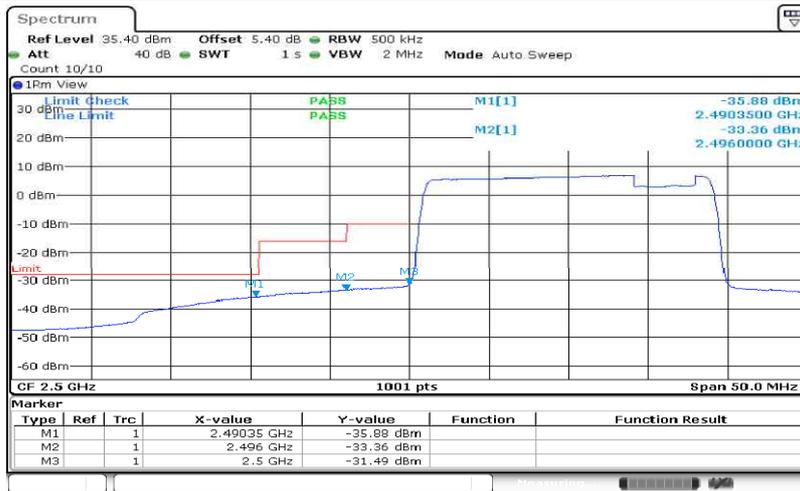


Band7-20MHz-QPSK-20850-1RB#0



Date: 13 JUN 2020 11:45:17

Band7-20MHz-QPSK-20850-100RB#0



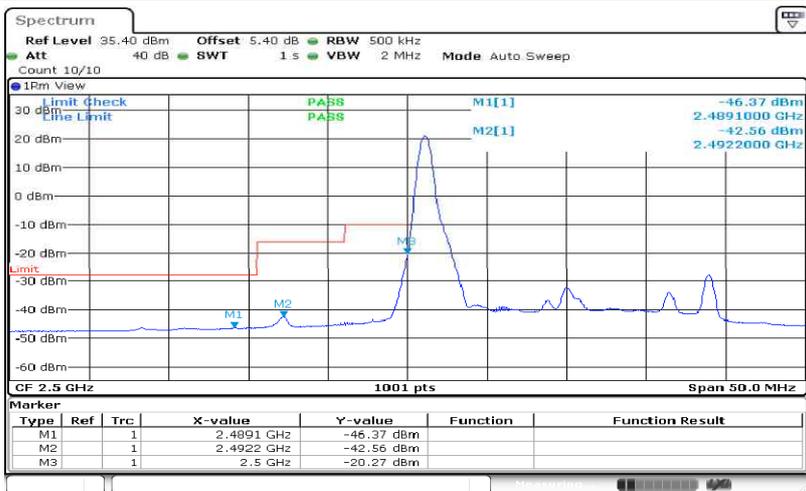
Date: 13 JUN 2020 11:46:50



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.

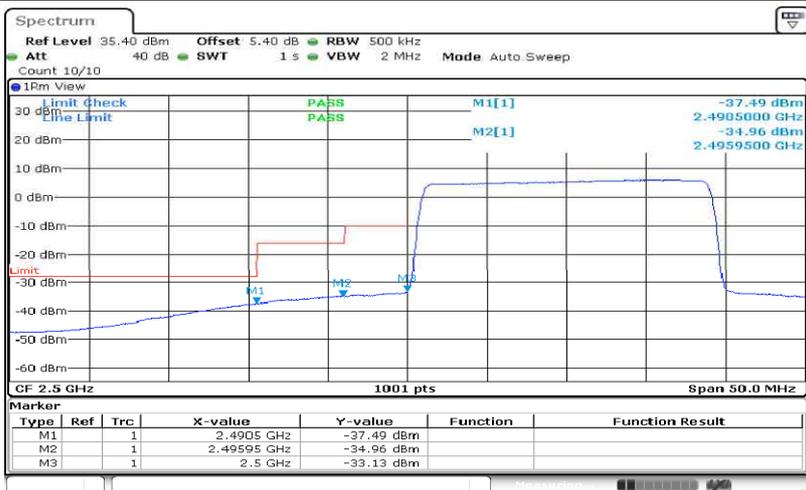


Band7-20MHz-16QAM-20850-1RB#0



Date: 13 JUN 2020 11:45:38

Band7-20MHz-16QAM-20850-100RB#0



Date: 13 JUN 2020 11:47:11



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

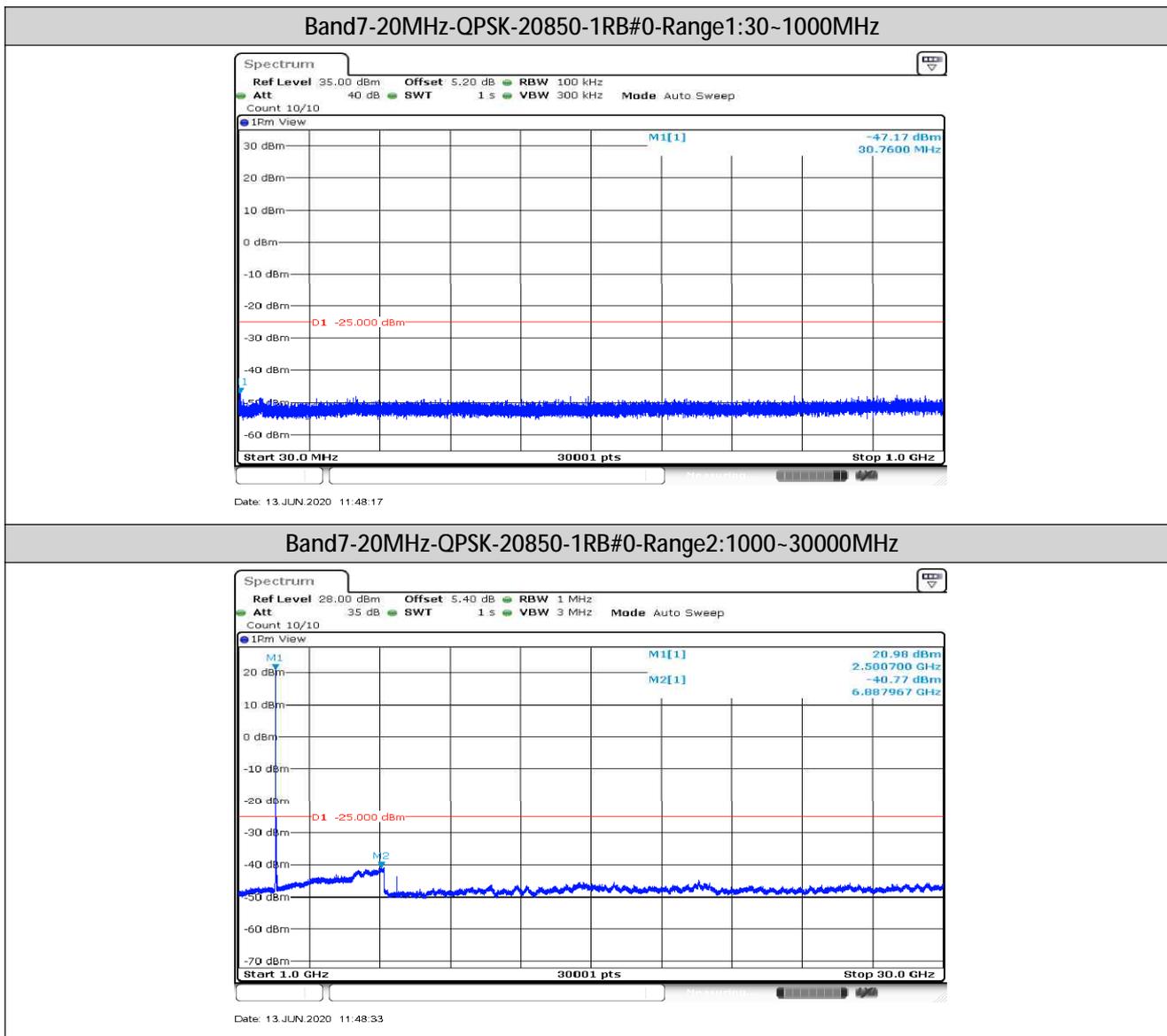


6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

6.1. Test Plots

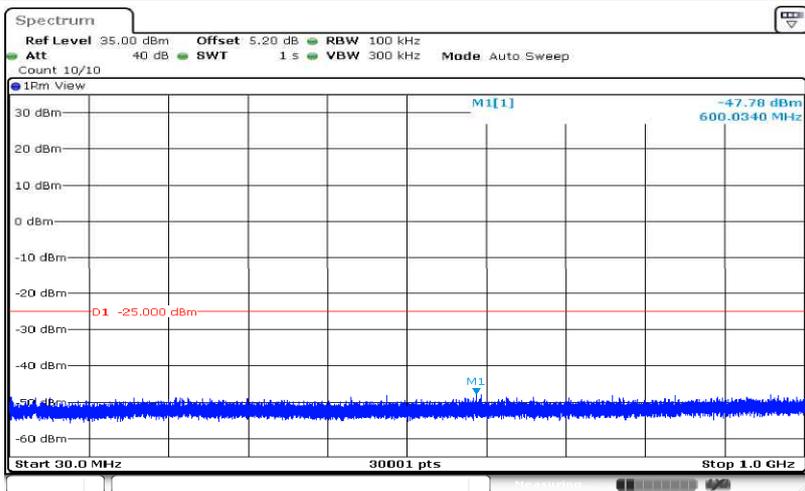


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

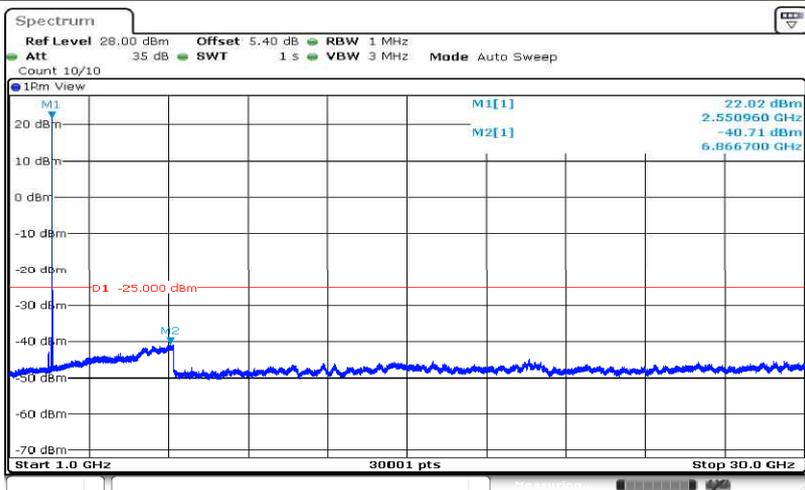


Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:50:38

Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz

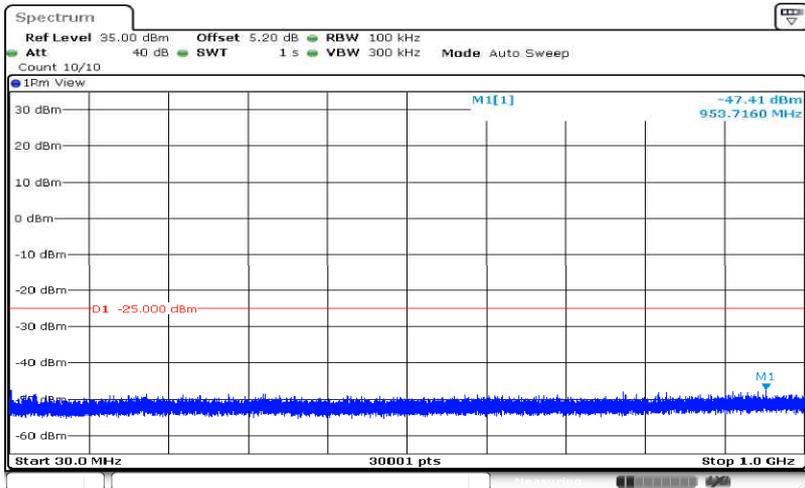


Date: 13 JUN 2020 11:50:54



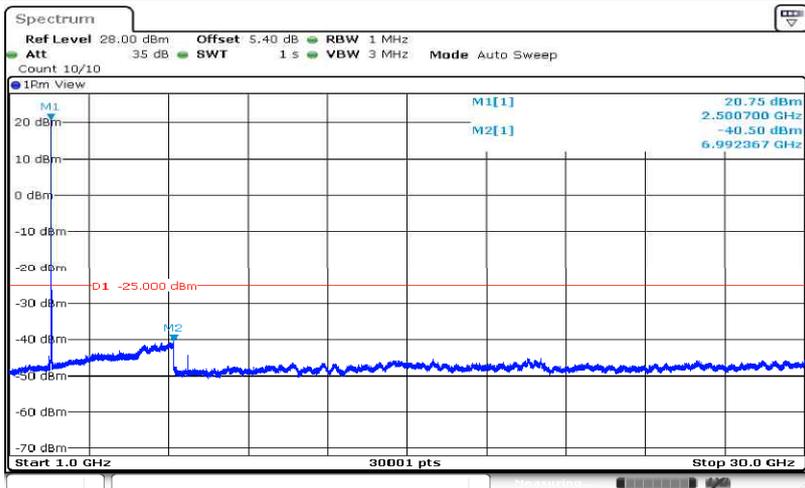
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:48:52

Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz

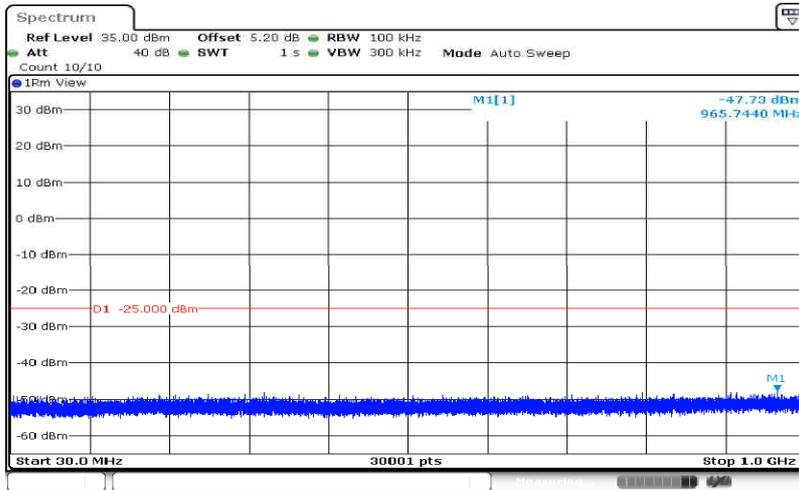


Date: 13 JUN 2020 11:49:03



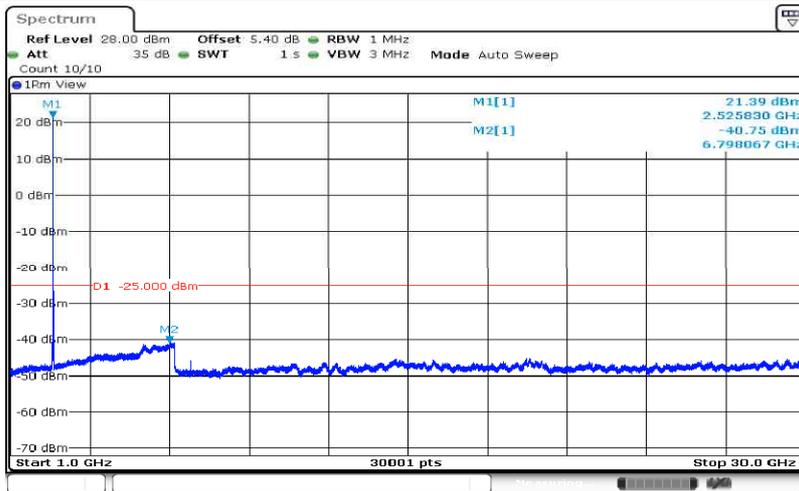
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:50:03

Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 13 JUN 2020 11:50:19



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.
 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 Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.7776	-73.13	-25.00	48.13	Vertical
112.9391	-65.48	-25.00	40.48	Vertical
561.7806	-66.66	-25.00	41.66	Vertical
1749.7500	-43.17	-25.00	18.17	Vertical
9022.4409	-56.10	-25.00	31.10	Vertical
17996.9999	-42.65	-25.00	17.65	Vertical
43.7747	-64.90	-25.00	39.90	Horizontal
230.9455	-68.54	-25.00	43.54	Horizontal
405.5543	-68.44	-25.00	43.44	Horizontal
2985.9972	-39.56	-25.00	14.56	Horizontal
7458.1783	-58.86	-25.00	33.86	Horizontal
16399.7360	-45.90	-25.00	20.90	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.9345	-72.87	-25.00	47.87	Vertical
111.3871	-65.77	-25.00	40.77	Vertical
438.0024	-67.84	-25.00	42.84	Vertical
2979.1958	-39.58	-25.00	14.58	Vertical
7430.5772	-58.16	-25.00	33.16	Vertical
17998.1999	-42.58	-25.00	17.58	Vertical
40.1370	-65.20	-25.00	40.20	Horizontal
242.7801	-68.97	-25.00	43.97	Horizontal
528.8959	-66.61	-25.00	41.61	Horizontal
1521.3043	-47.48	-25.00	22.48	Horizontal
7457.5783	-58.61	-25.00	33.61	Horizontal
16389.5356	-45.93	-25.00	20.93	Horizontal



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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



7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4980	-72.42	-25.00	47.42	Vertical
117.9834	-65.45	-25.00	40.45	Vertical
570.9961	-66.51	-25.00	41.51	Vertical
2939.1878	-39.48	-25.00	14.48	Vertical
8829.8332	-57.18	-25.00	32.18	Vertical
17987.3995	-42.51	-25.00	17.51	Vertical
44.4052	-64.79	-25.00	39.79	Horizontal
236.7173	-69.18	-25.00	44.18	Horizontal
508.2824	-66.44	-25.00	41.44	Horizontal
1750.5501	-44.08	-25.00	19.08	Horizontal
6544.9418	-61.89	-25.00	36.89	Horizontal
16391.3357	-45.41	-25.00	20.41	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



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth h	Modulation	Channel	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-6.00	-0.002390	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-1.90	-0.000757	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-0.80	-0.000319	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-14.80	-0.005838	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.20	-0.000473	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-0.90	-0.000355	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	2.50	0.000977	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	4.00	0.001563	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-8.30	-0.003242	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-6.80	-0.002709	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-15.50	-0.006175	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-11.80	-0.004701	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	5.60	0.002209	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-6.70	-0.002643	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	9.50	0.003748	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-8.80	-0.003438	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	13.50	0.005273	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-9.30	-0.003633	±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



8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-8.30	-0.003307	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	5.50	0.002191	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-8.90	-0.003546	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-10.30	-0.004104	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-7.10	-0.002829	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-5.10	-0.002032	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-9.80	-0.003904	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	8.80	0.003506	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-16.00	-0.006312	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	4.40	0.001736	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	7.90	0.003116	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	2.00	0.000789	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-8.80	-0.003471	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	6.00	0.002367	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.30	-0.000118	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-8.60	-0.003359	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	10.00	0.003906	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-4.90	-0.001914	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-18.90	-0.007383	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	5.20	0.002031	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	6.10	0.002383	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-9.30	-0.003633	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-3.80	-0.001514	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	11.40	0.004542	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	7.30	0.002908	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	2.20	0.000876	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-12.10	-0.004821	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	1.70	0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	6.00	0.002390	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	6.00	0.002367	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-11.30	-0.004458	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-9.90	-0.003905	±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) 83071443, or email: CN.Doccheck@sgs.com



Band7	20MHz	16QAM	21100	100RB#0	NV	10	-14.50	-0.005720	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	4.40	0.001736	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-2.70	-0.001065	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-6.90	-0.002695	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-7.50	-0.002930	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	2.40	0.000938	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-10.30	-0.004023	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-2.60	-0.001016	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	1.70	0.000664	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-4.80	-0.001875	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-2.30	-0.000898	±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