



Appendix B

E-UTRA Band 5



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 FOR ANT0	3
1.2.	TEST RESULT FOR ANT1	8
2.	PEAK-TO-AVERAGE RATIO (CCDF)	15
2.1.	TEST RESULT	15
2.2.	TEST PLOTS	15
3.	MODULATION CHARACTERISTICS	20
3.1.	TEST MODE = LTE /TM1 10MHZ	20
3.1.1.	TEST CHANNEL = MCH	20
3.2.	TEST MODE = LTE /TM2 10MHZ	21
3.2.1.	TEST CHANNEL = MCH	21
3.3.	TEST MODE = LTE /TM3 10MHZ	22
3.3.1.	TEST CHANNEL = MCH	22
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	23
4.1.	TEST RESULT	23
4.2.	TEST PLOTS	24
5.	BAND EDGE COMPLIANCE	42
5.1.	TEST PLOTS	42
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	66
6.1.	TEST PLOTS	66
7.	FIELD STRENGTH OF SPURIOUS RADIATION	75
7.1.	TEST MODE =LTE/TM1 (ANT0)	75
7.1.1.	TEST CHANNEL = LCH	75
7.1.2.	TEST CHANNEL = MCH	75
7.1.3.	TEST CHANNEL = HCH	76
7.2.	TEST MODE =LTE/TM1 (ANT1)	76
7.2.1.	TEST CHANNEL = LCH	76
7.2.2.	TEST CHANNEL = MCH	77
7.2.3.	TEST CHANNEL = HCH	77
8.	FREQUENCY STABILITY	79
8.1.	FREQUENCY VS VOLTAGE	79
8.2.	FREQUENCY VS TEMPERATURE	79





1 Effective (Isotropic) Radiated Power

1.1. Test Result for Ant0

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.49	14.34	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.47	14.32	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.45	14.30	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.50	14.35	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#2	23.58	14.43	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.57	14.42	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.62	13.47	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.40	14.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.66	14.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.51	14.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.45	14.30	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#2	23.61	14.46	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.64	14.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.64	13.49	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.51	14.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.60	14.45	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.39	14.24	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.59	14.44	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#2	23.55	14.40	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.53	14.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.63	13.48	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.02	12.87	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.96	12.81	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.89	12.74	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	21.50	12.35	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#2	21.63	12.48	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	21.63	12.48	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.67	11.52	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.57	12.42	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.91	12.76	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.97	12.82	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	21.50	12.35	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#2	21.68	12.53	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	21.67	12.52	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.69	11.54	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.74	12.59	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.65	12.50	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.64	12.49	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	21.55	12.40	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#2	21.68	12.53	38.45	PASS



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

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



Band5	1.4MHz	64QAM	20643	3RB#3	21.68	12.53	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.81	11.66	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.96	13.81	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.00	13.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.84	13.69	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.48	13.33	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#2	22.61	13.46	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.61	13.46	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.62	12.47	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.55	13.40	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.95	13.80	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.96	13.81	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.52	13.37	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#2	22.62	13.47	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.69	13.54	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.70	12.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.76	13.61	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.69	13.54	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.68	13.53	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.53	13.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#2	22.68	13.53	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.68	13.53	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.84	12.69	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.54	14.39	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#7	23.58	14.43	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.63	14.48	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.70	13.55	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.75	13.60	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.57	13.42	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.72	13.57	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.57	14.42	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#7	23.65	14.50	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.48	14.33	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.72	13.57	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.73	13.58	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.73	13.58	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.68	13.53	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.61	14.46	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#7	23.58	14.43	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.52	14.37	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.63	13.48	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.75	13.60	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.60	13.45	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.63	13.48	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.19	13.04	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#7	22.25	13.10	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.75	12.60	38.45	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.

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



Band5	3MHz	64QAM	20415	8RB#0	20.79	11.64	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	20.75	11.60	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	20.63	11.48	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.73	11.58	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.90	12.75	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#7	22.06	12.91	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.91	12.76	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	20.82	11.67	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	20.89	11.74	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	20.68	11.53	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.76	11.61	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.84	12.69	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#7	21.82	12.67	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.06	12.91	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	20.66	11.51	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	20.73	11.58	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.61	11.46	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.79	11.64	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.20	14.05	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#7	23.27	14.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.78	13.63	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.73	12.58	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.69	12.54	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.62	12.47	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.70	12.55	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.88	13.73	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#7	23.06	13.91	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.88	13.73	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.80	12.65	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.83	12.68	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.72	12.57	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.79	12.64	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.82	13.67	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#7	22.76	13.61	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.03	13.88	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.67	12.52	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.68	12.53	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.62	12.47	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.76	12.61	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.64	14.49	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#13	23.65	14.50	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.68	14.53	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.75	13.60	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.69	13.54	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.71	13.56	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.75	13.60	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.65	14.50	38.45	PASS



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

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



Band5	5MHz	QPSK	20525	1RB#13	23.67	14.52	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.60	14.45	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.77	13.62	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.74	13.59	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.68	13.53	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.74	13.59	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.66	14.51	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#13	23.58	14.43	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.54	14.39	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.69	13.54	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.72	13.57	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.67	13.52	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.70	13.55	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.76	12.61	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#13	21.80	12.65	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.40	13.25	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	20.73	11.58	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	20.73	11.58	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	20.74	11.59	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.83	11.68	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.88	12.73	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#13	22.00	12.85	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.05	12.90	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	20.81	11.66	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#6	20.76	11.61	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#13	20.73	11.58	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.86	11.71	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.38	13.23	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#13	21.93	12.78	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.95	12.80	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	20.67	11.52	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	20.66	11.51	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	20.77	11.62	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.86	11.71	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.80	13.65	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#13	22.78	13.63	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.38	14.23	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.67	12.52	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.76	12.61	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.73	12.58	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.79	12.64	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.92	13.77	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#13	22.97	13.82	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.01	13.86	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.80	12.65	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.70	12.55	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.68	12.53	38.45	PASS



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

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



Band5	5MHz	16QAM	20525	25RB#0	21.80	12.65	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.38	14.23	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#13	22.93	13.78	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.91	13.76	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.61	12.46	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.62	12.47	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.71	12.56	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.80	12.65	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.60	14.45	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.63	14.48	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.70	14.55	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.71	13.56	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.74	13.59	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.69	13.54	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.71	13.56	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.69	14.54	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.66	14.51	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.56	14.41	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.73	13.58	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.79	13.64	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.69	13.54	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.72	13.57	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.50	14.35	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.57	14.42	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.43	14.28	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.65	13.50	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.68	13.53	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.72	13.57	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.80	13.65	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.75	12.60	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.82	12.67	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.87	12.72	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	20.64	11.49	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	20.76	11.61	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	20.71	11.56	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.77	11.62	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.97	12.82	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.90	12.75	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.75	12.60	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.71	11.56	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	20.76	11.61	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	20.78	11.63	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.69	11.54	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.87	12.72	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.84	12.69	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.82	12.67	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	20.65	11.50	38.45	PASS



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

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



Band5	10MHz	64QAM	20600	25RB#12	20.79	11.64	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	20.76	11.61	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.83	11.68	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.74	13.59	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.86	13.71	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.83	13.68	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.60	12.45	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.80	12.65	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.73	12.58	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.74	12.59	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.96	13.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.91	13.76	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.78	13.63	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.71	12.56	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.79	12.64	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.77	12.62	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.71	12.56	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.84	13.69	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.88	13.73	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.78	13.63	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.66	12.51	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.78	12.63	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.73	12.58	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.78	12.63	38.45	PASS

1.2. Test Result for Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.78	18.23	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.80	18.25	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.79	18.24	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.74	18.19	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#2	23.88	18.33	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.82	18.27	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.89	17.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.74	18.19	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.90	18.35	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.77	18.22	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.90	18.35	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#2	23.86	18.31	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.89	18.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.93	17.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.86	18.31	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.95	18.40	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.82	18.27	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.86	18.31	38.45	PASS



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

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



Band5	1.4MHz	QPSK	20643	3RB#2	24.01	18.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.88	18.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.99	17.44	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.09	16.54	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.03	16.48	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.85	16.30	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	21.85	16.30	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#2	21.89	16.34	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	21.63	16.08	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.85	15.30	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.35	16.80	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.34	16.79	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.24	16.69	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	21.95	16.40	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#2	21.82	16.27	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	21.92	16.37	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.99	15.44	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.91	16.36	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.52	16.97	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.90	16.35	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	21.99	16.44	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#2	22.02	16.47	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	21.88	16.33	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.82	15.27	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.29	17.74	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.11	17.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.04	17.49	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.85	17.30	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#2	22.97	17.42	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.79	17.24	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.96	16.41	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.39	17.84	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.35	17.80	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.42	17.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.99	17.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#2	22.88	17.33	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.01	17.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.15	16.60	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.98	17.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.59	18.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.08	17.53	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.14	17.59	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#2	23.02	17.47	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.90	17.35	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.95	16.40	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.04	18.49	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#7	23.99	18.44	38.45	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.

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 (CMAA) Laboratory

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



Band5	3MHz	QPSK	20415	1RB#14	23.92	18.37	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.95	17.40	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.02	17.47	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.01	17.46	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.01	17.46	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.01	18.46	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#7	23.95	18.40	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.92	18.37	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.04	17.49	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.09	17.54	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.05	17.50	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.00	17.45	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.06	18.51	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#7	24.02	18.47	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.95	18.40	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.99	17.44	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.12	17.57	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.96	17.41	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.00	17.45	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.95	16.40	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#7	21.75	16.20	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.17	16.62	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	20.89	15.34	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	21.00	15.45	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	20.87	15.32	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.90	15.35	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.99	16.44	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#7	21.95	16.40	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.27	16.72	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	20.90	15.35	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	21.02	15.47	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	20.95	15.40	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.10	15.55	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.39	16.84	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#7	21.70	16.15	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.90	16.35	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	20.91	15.36	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	21.00	15.45	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.98	15.43	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.88	15.33	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.03	17.48	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#7	22.85	17.30	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.32	17.77	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.03	16.48	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.13	16.58	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.01	16.46	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.99	16.44	38.45	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, CSTC Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band5	3MHz	16QAM	20525	1RB#0	23.15	17.60	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#7	23.07	17.52	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.41	17.86	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.06	16.51	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.17	16.62	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.96	16.41	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.11	16.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.39	17.84	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#7	22.89	17.34	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.10	17.55	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.03	16.48	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.12	16.57	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.04	16.49	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.96	16.41	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.97	18.42	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#13	23.76	18.21	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.90	18.35	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.05	17.50	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.00	17.45	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.98	17.43	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.00	17.45	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.01	18.46	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#13	24.04	18.49	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.95	18.40	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.05	17.50	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.06	17.51	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.99	17.44	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.05	17.50	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.93	18.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#13	23.93	18.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.93	18.38	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.09	17.54	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.09	17.54	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.92	17.37	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.05	17.50	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.17	16.62	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#13	21.97	16.42	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.69	17.14	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	20.88	15.33	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	20.86	15.31	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	20.89	15.34	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.83	15.28	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.86	16.31	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#13	22.51	16.96	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.20	16.65	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	20.91	15.36	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#6	20.87	15.32	38.45	PASS



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

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



Band5	5MHz	64QAM	20525	12RB#13	20.94	15.39	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.95	15.40	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.09	16.54	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#13	21.79	16.24	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.05	16.50	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	20.91	15.36	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	20.83	15.28	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	21.02	15.47	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.90	15.35	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.20	17.65	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#13	23.14	17.59	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.73	18.18	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.07	16.52	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.04	16.49	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.04	16.49	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.99	16.44	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.98	17.43	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#13	23.53	17.98	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.31	17.76	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.11	16.56	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.06	16.51	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.96	16.41	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.05	16.50	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.18	17.63	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#13	22.93	17.38	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.21	17.66	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.00	16.45	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.89	16.34	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.04	16.49	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.09	16.54	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.87	18.32	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.10	18.55	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.86	18.31	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.98	17.43	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.89	17.34	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.16	17.61	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.10	17.55	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.00	18.45	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.85	18.30	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.04	18.49	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.98	17.43	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.15	17.60	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.99	17.44	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.94	17.39	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.09	18.54	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.96	18.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.00	18.45	38.45	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.

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



Band5	10MHz	QPSK	20600	25RB#0	23.08	17.53	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.13	17.58	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.96	17.41	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.11	17.56	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.01	16.46	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.72	17.17	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.87	16.32	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	20.98	15.43	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	21.22	15.67	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	21.06	15.51	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.03	15.48	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.48	16.93	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.08	16.53	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.99	16.44	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.96	15.41	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	21.08	15.53	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	21.06	15.51	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.93	15.38	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.25	16.70	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.40	16.85	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.82	16.27	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	21.19	15.64	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	21.14	15.59	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	20.97	15.42	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.91	15.36	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.98	17.43	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.30	17.75	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.97	17.42	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.99	16.44	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.06	16.51	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.00	16.45	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.05	16.50	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.51	17.96	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.18	17.63	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.98	17.43	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.96	16.41	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.01	16.46	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.10	16.55	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.06	16.51	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.67	18.12	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.25	17.70	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.74	18.19	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.93	16.38	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.19	16.64	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.00	16.45	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.07	16.52	38.45	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
Shenzhen Branch: 中国·深圳·科技园中区M-10栋一号厂房
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



Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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

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

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

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

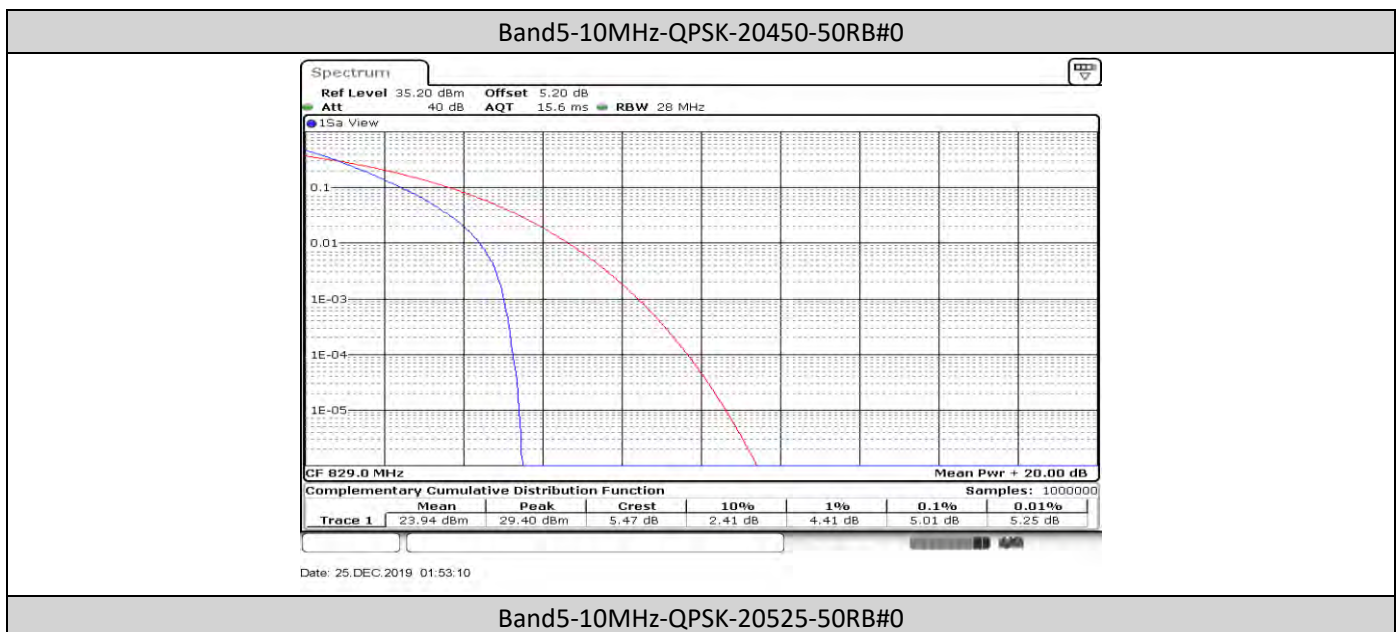


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.01	13.00	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.28	13.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.22	13.00	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.03	13.00	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.12	13.00	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.06	13.00	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13.00	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13.00	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.06	13.00	PASS

2.2. Test Plots





Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-64QAM-20450-50RB#0



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



Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-64QAM-20600-50RB#0

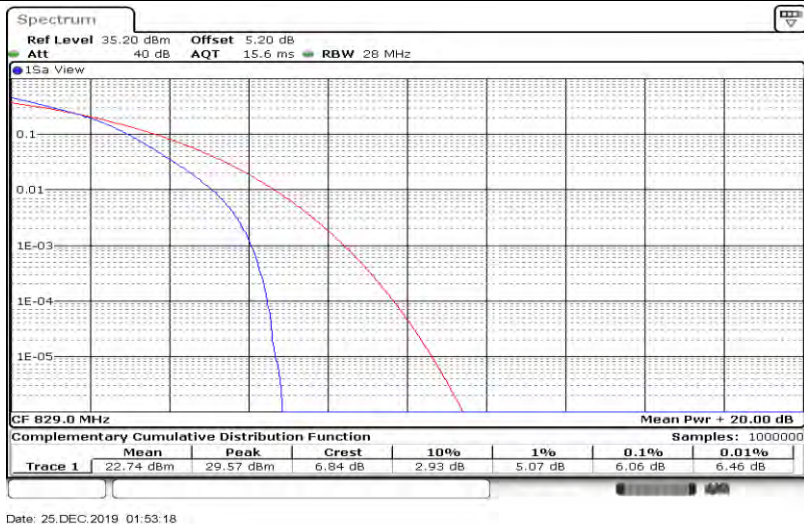


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



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

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



Band5-10MHz-16QAM-20600-50RB#0



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.

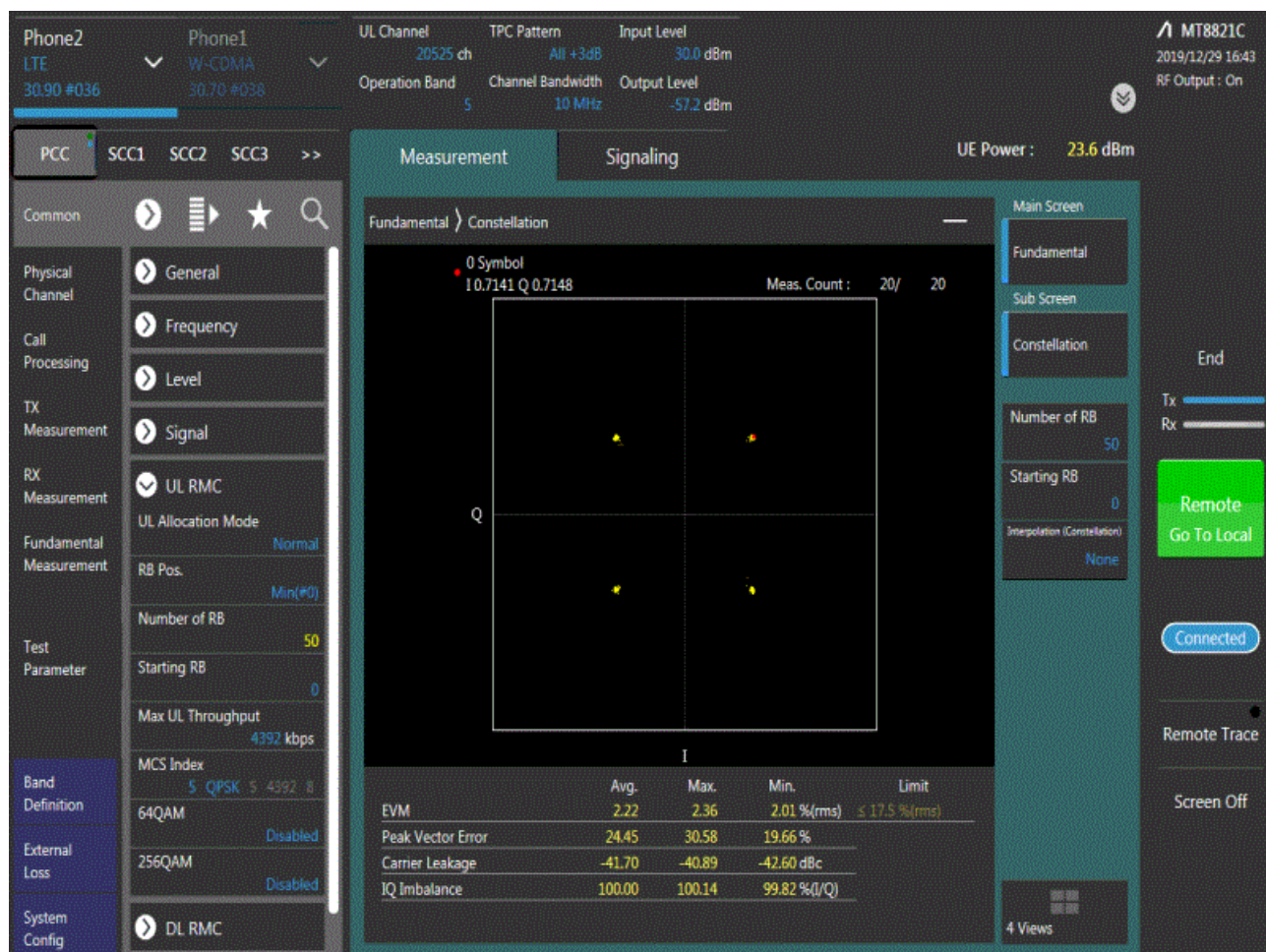
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

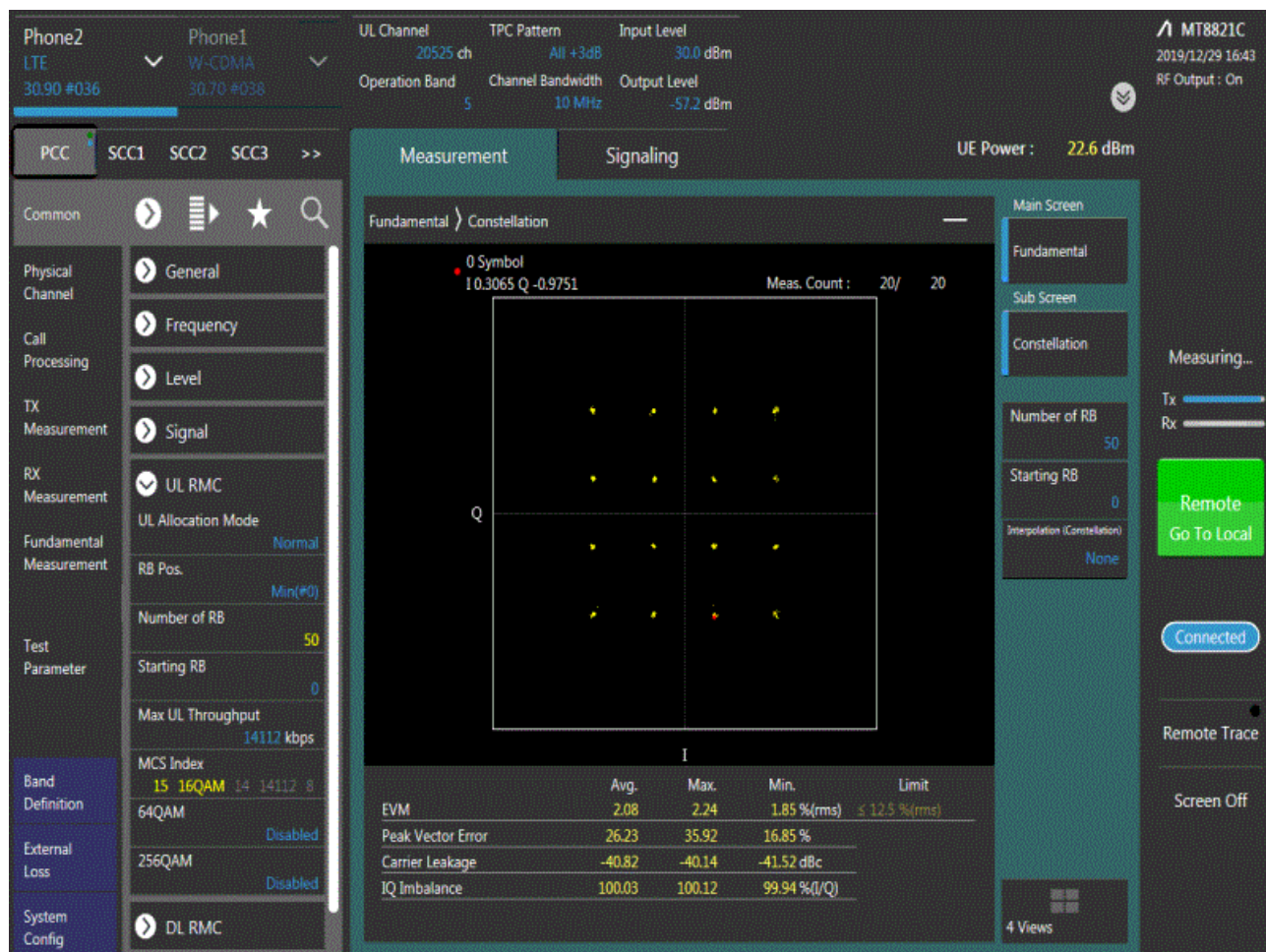
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

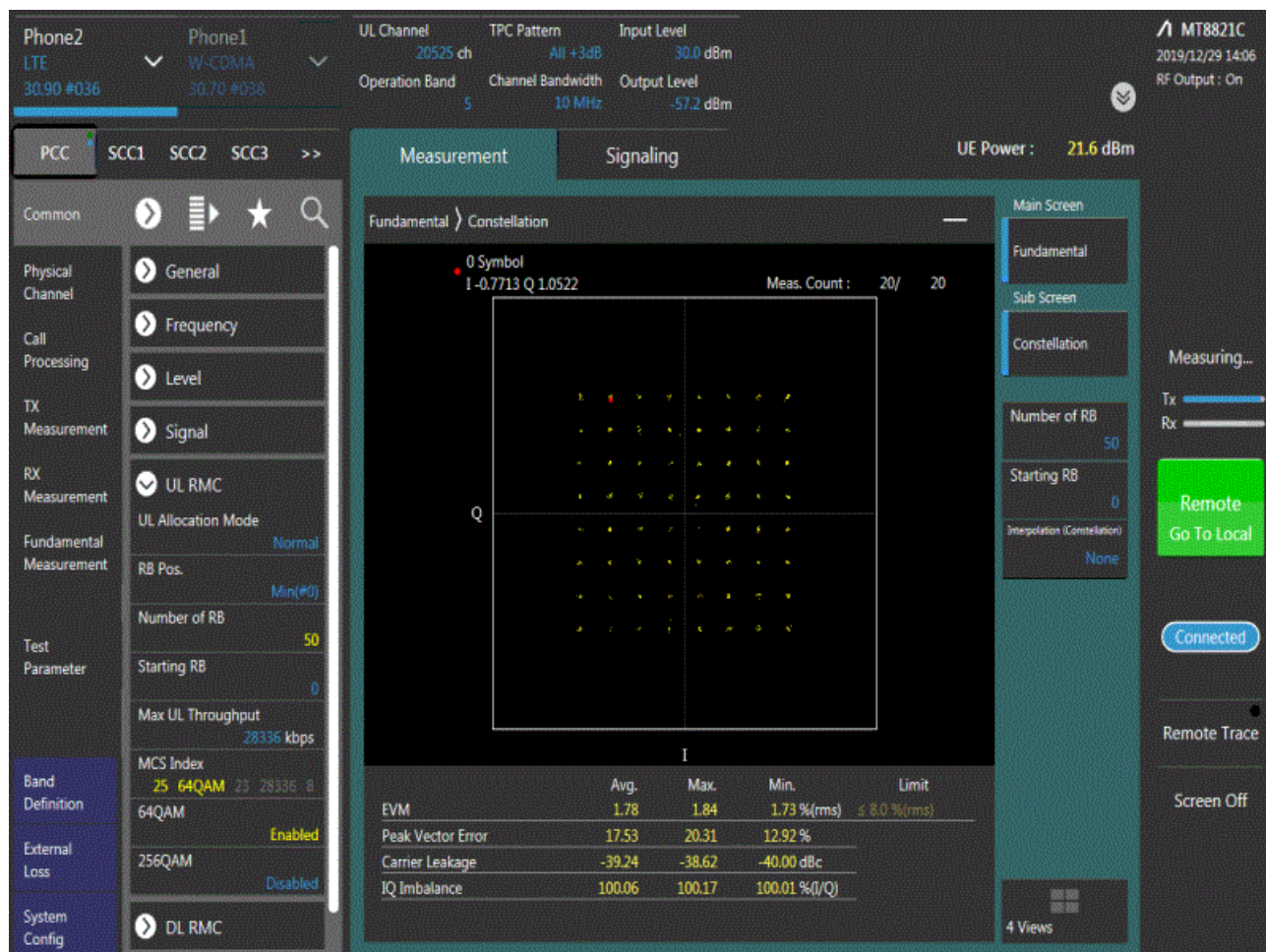
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.248	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.242	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.251	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.251	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.091	1.242	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.088	1.233	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.236	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.248	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.233	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.982	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.703	2.994	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	3.006	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	3.012	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	3.006	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.697	3.024	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	3.018	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	3.000	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.910	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.900	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.900	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.466	4.910	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.486	4.920	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.466	4.840	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.830	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.940	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.900	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.660	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.760	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.680	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.620	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.931	9.640	PASS



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

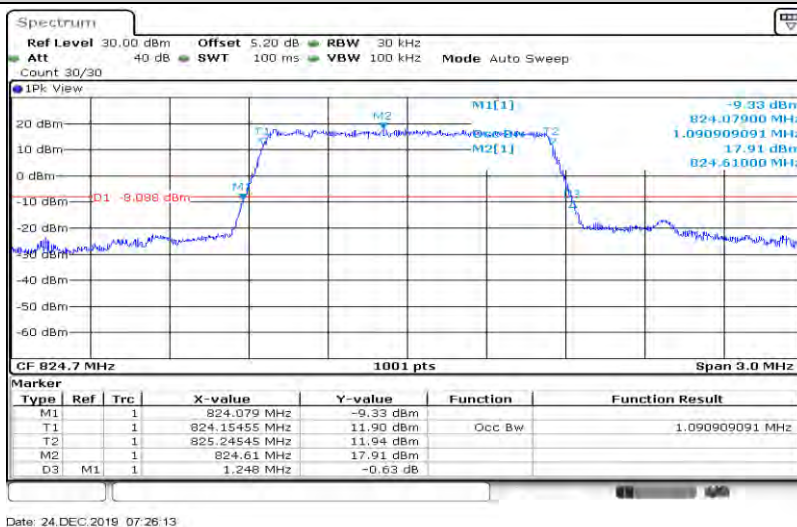
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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



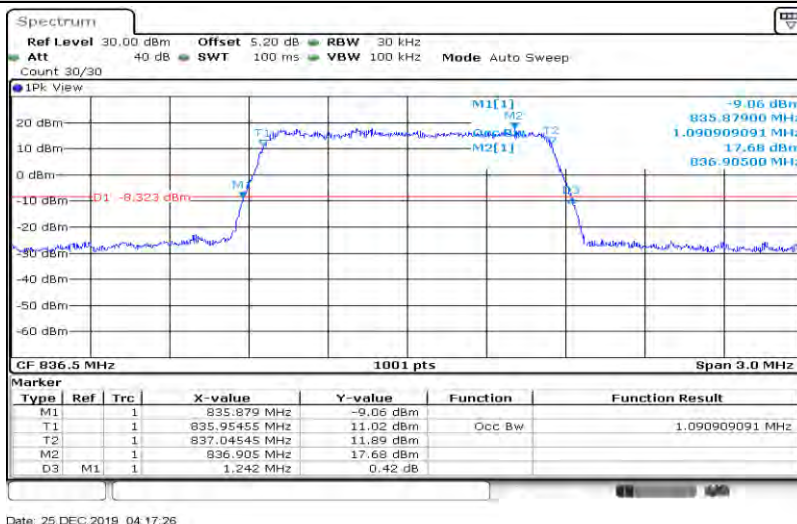
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.620	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.620	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.620	PASS

4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091

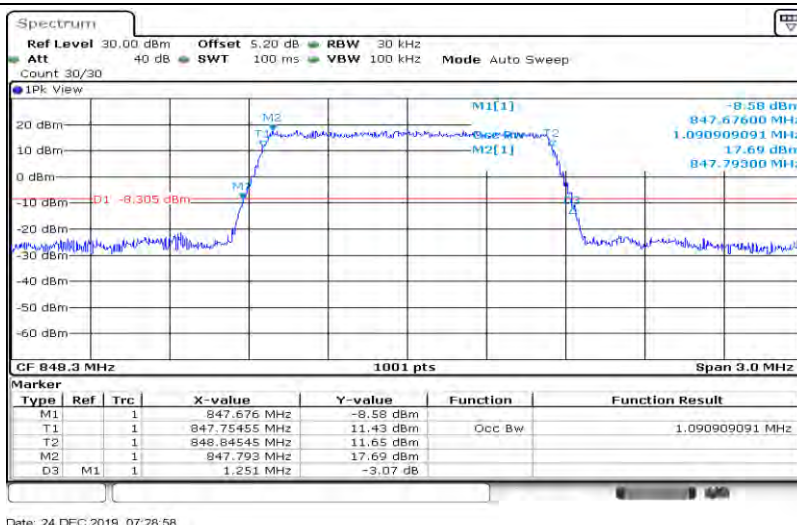


Band5-1.4MHz-QPSK-20525-6RB#0-2.97

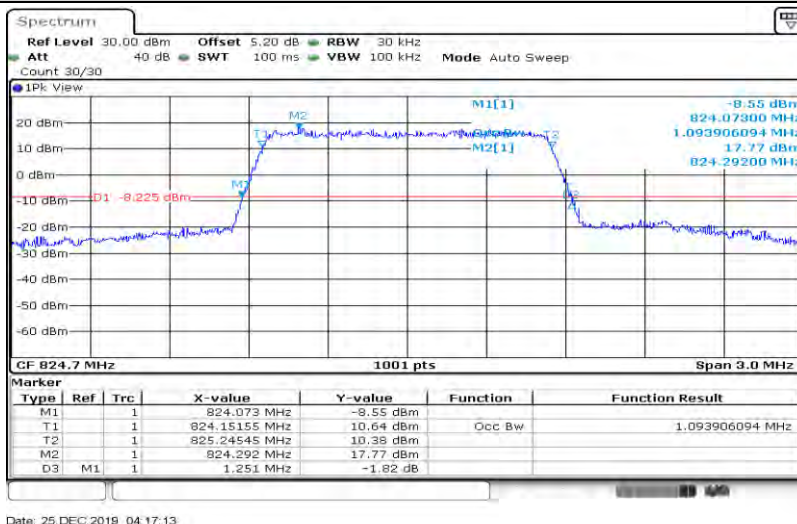


Band5-1.4MHz-QPSK-20643-6RB#0-1.091



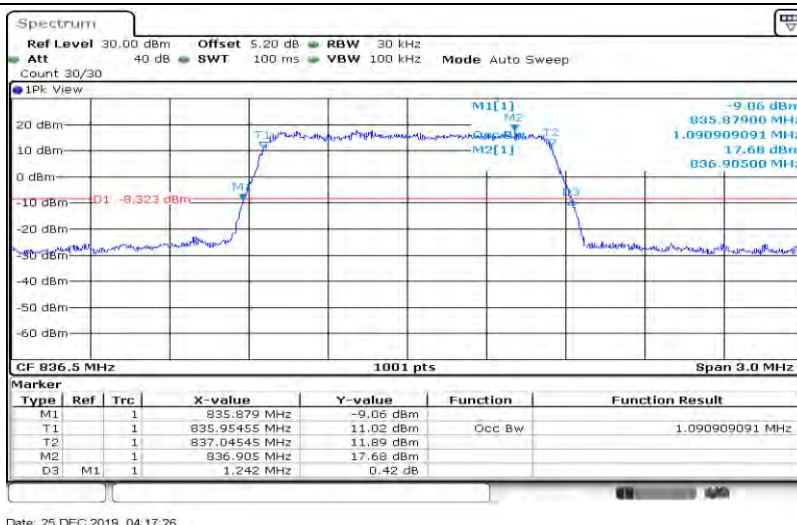


Band5-1.4MHz-64QAM-20407-6RB#0-1.094

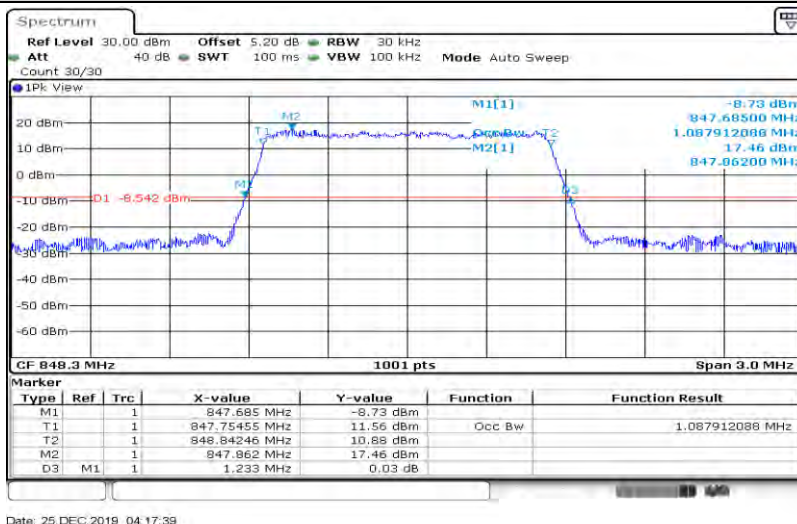


Band5-1.4MHz-64QAM-20525-6RB#0-1.091



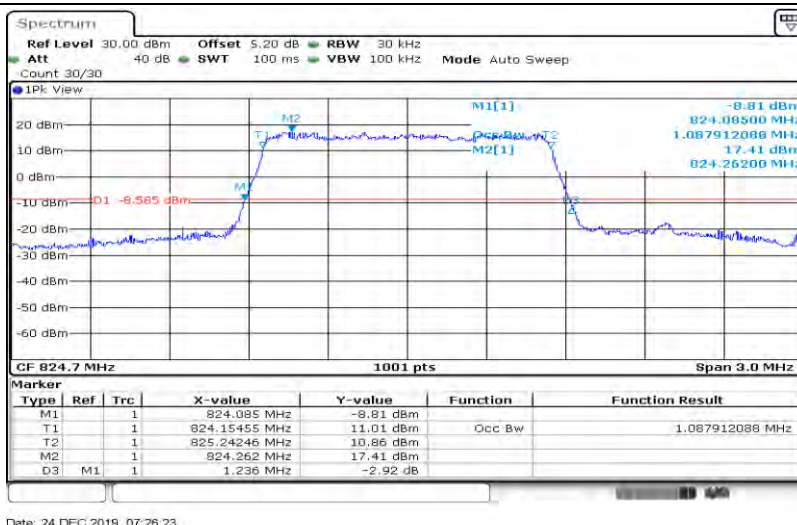


Band5-1.4MHz-64QAM-20643-6RB#0-1.088

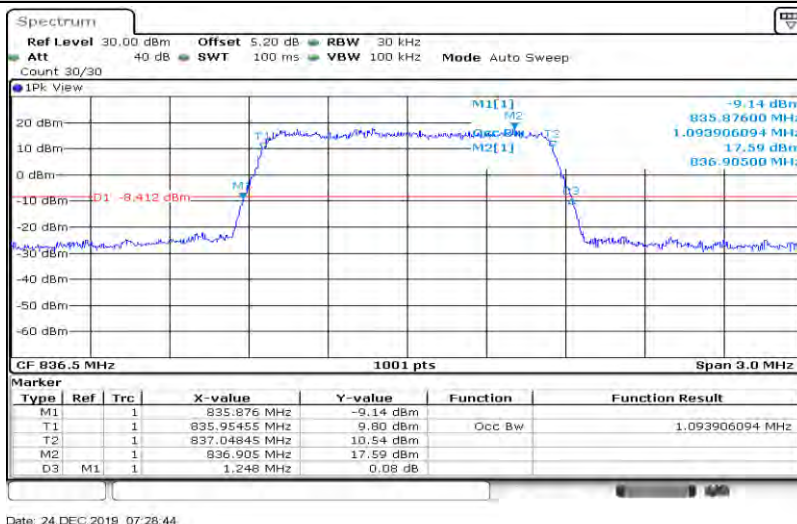


Band5-1.4MHz-16QAM-20407-6RB#0-1.088



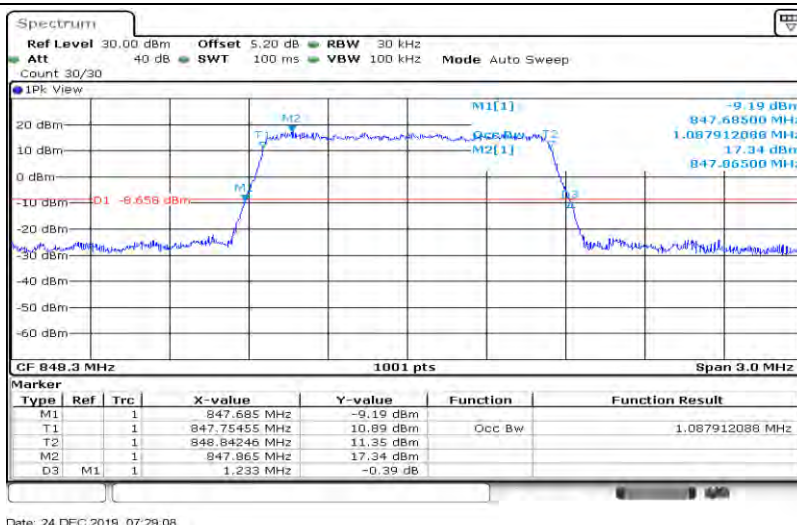


Band5-1.4MHz-16QAM-20525-6RB#0-1.094

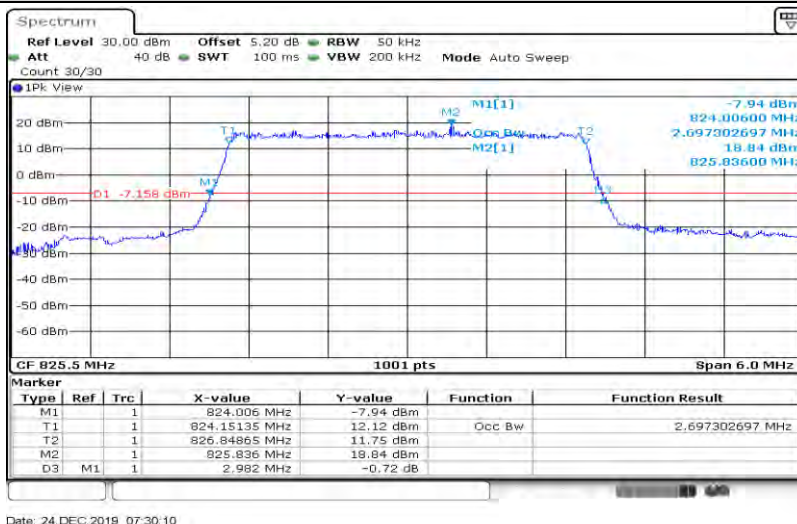


Band5-1.4MHz-16QAM-20643-6RB#0-1.088



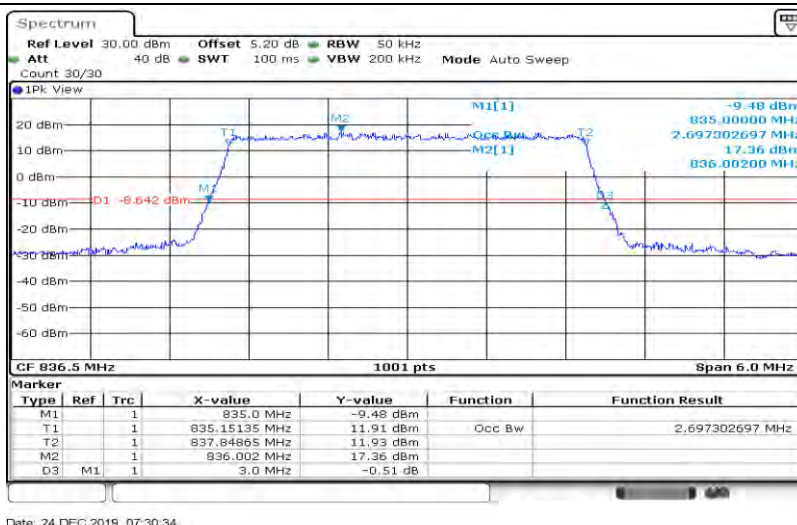


Band5-3MHz-QPSK-20415-15RB#0-2.697

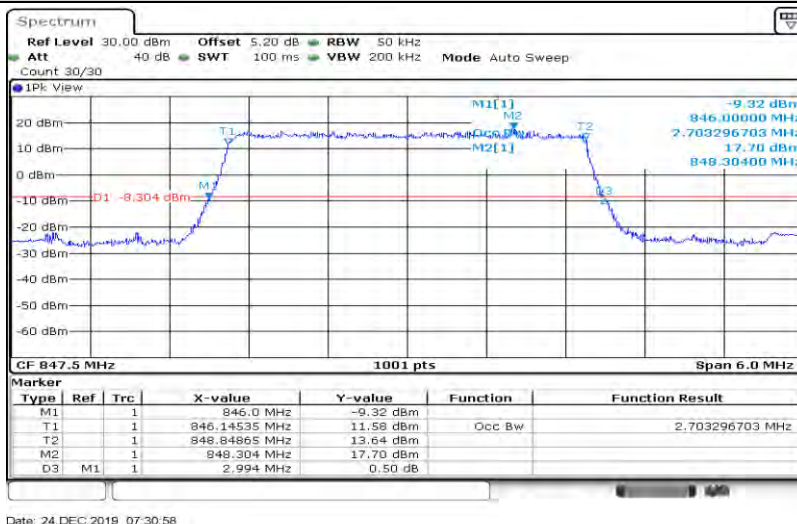


Band5-3MHz-QPSK-20525-15RB#0-2.697



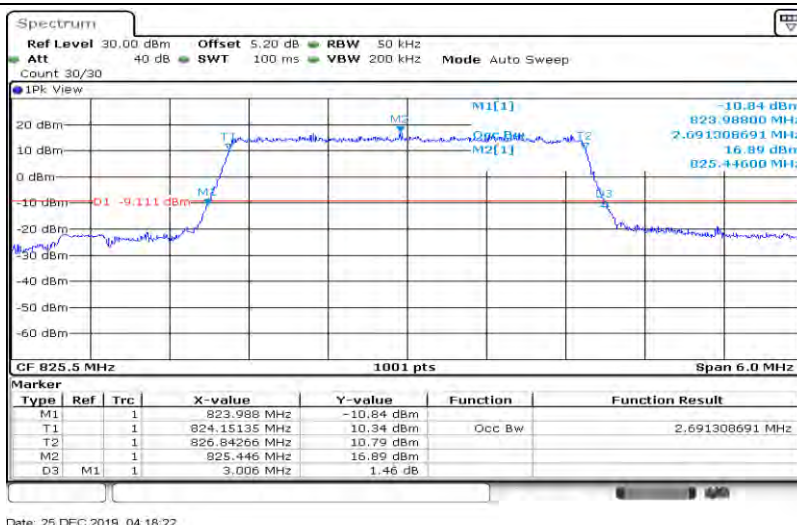


Band5-3MHz-QPSK-20635-15RB#0-2.703

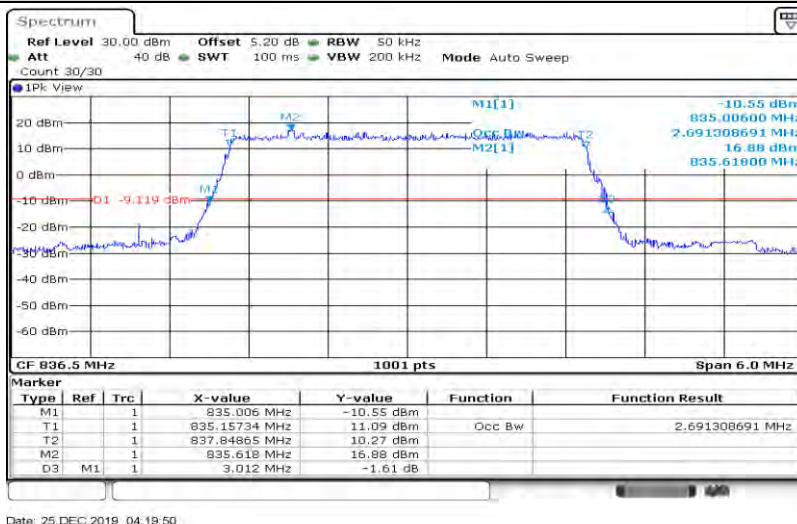


Band5-3MHz-64QAM-20415-15RB#0-2.691



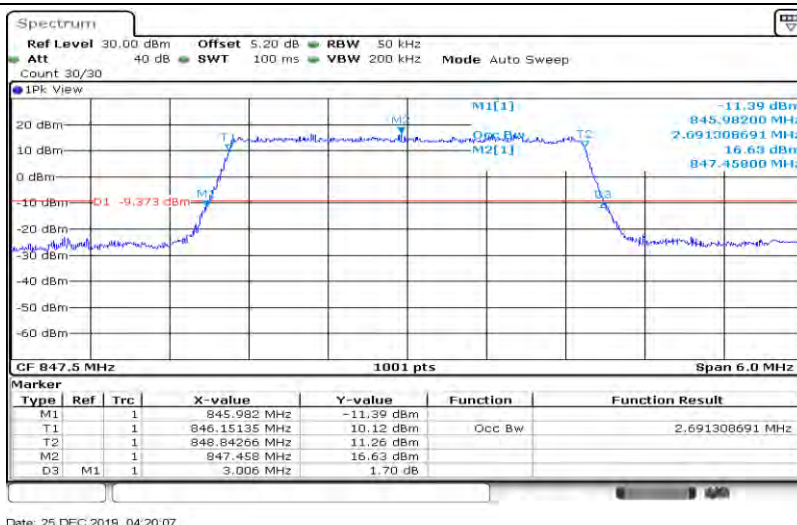


Band5-3MHz-64QAM-20525-15RB#0-2.691

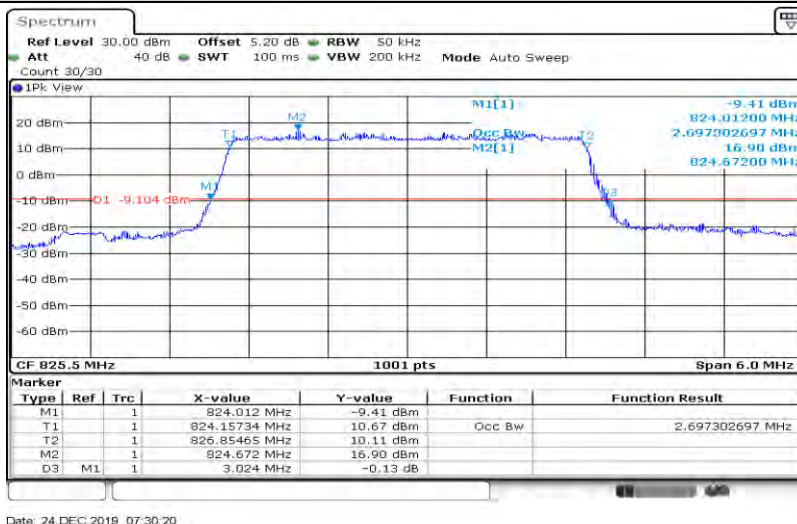


Band5-3MHz-64QAM-20635-15RB#0-2.691



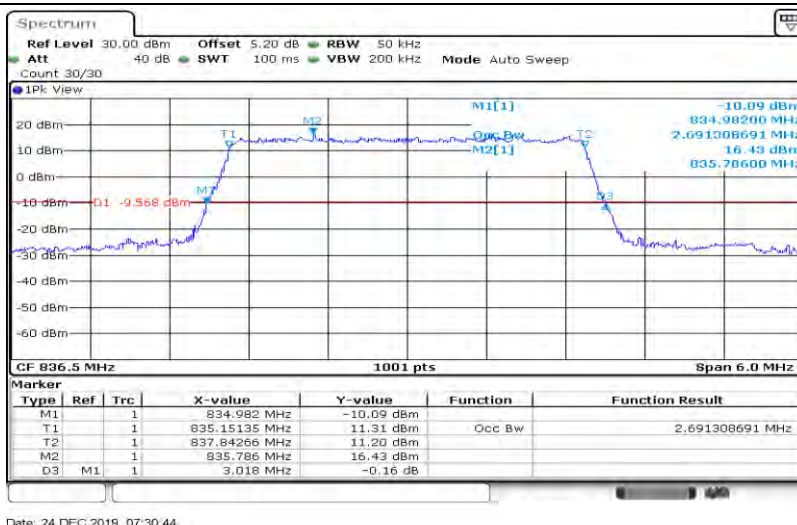


Band5-3MHz-16QAM-20415-15RB#0-2.697



Band5-3MHz-16QAM-20525-15RB#0-2.691



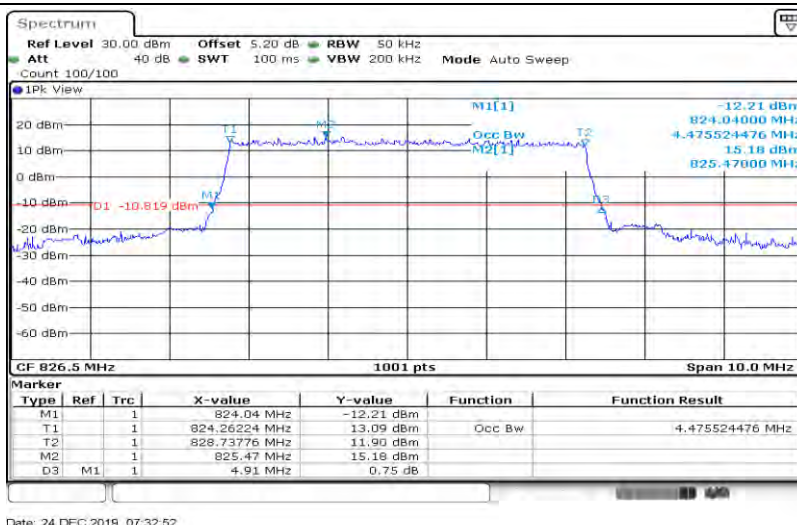


Band5-3MHz-16QAM-20635-15RB#0-2.691

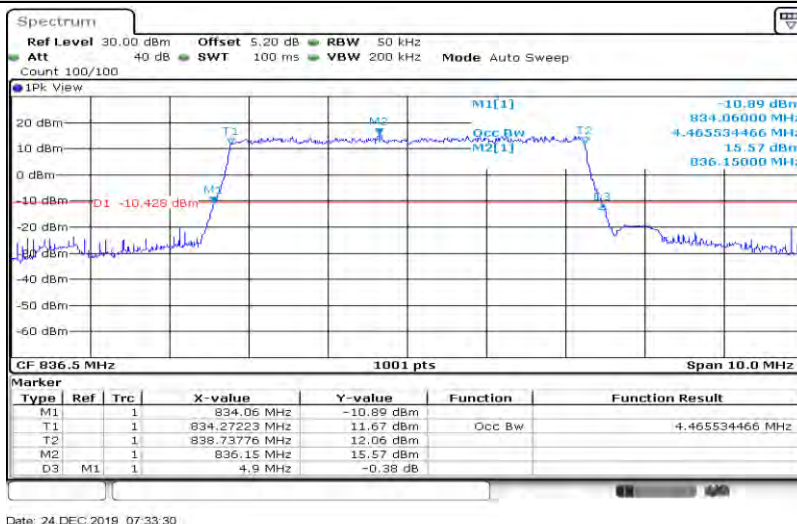


Band5-5MHz-QPSK-20425-25RB#0-4.476



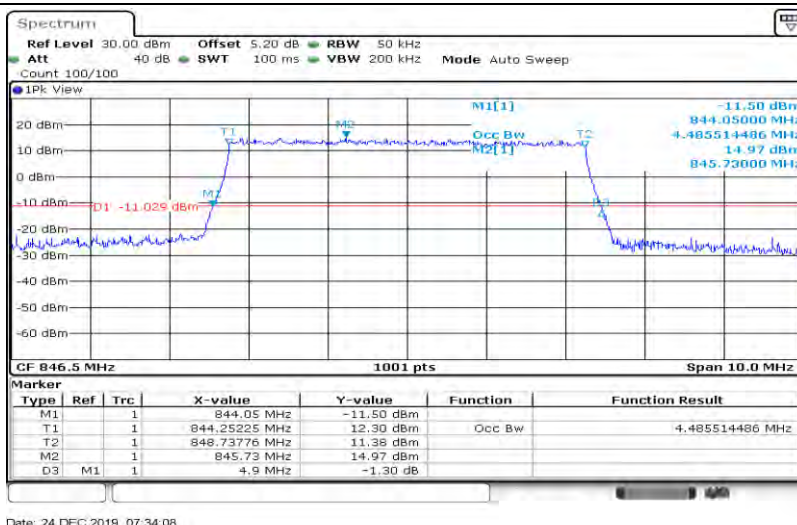


Band5-5MHz-QPSK-20525-25RB#0-4.466

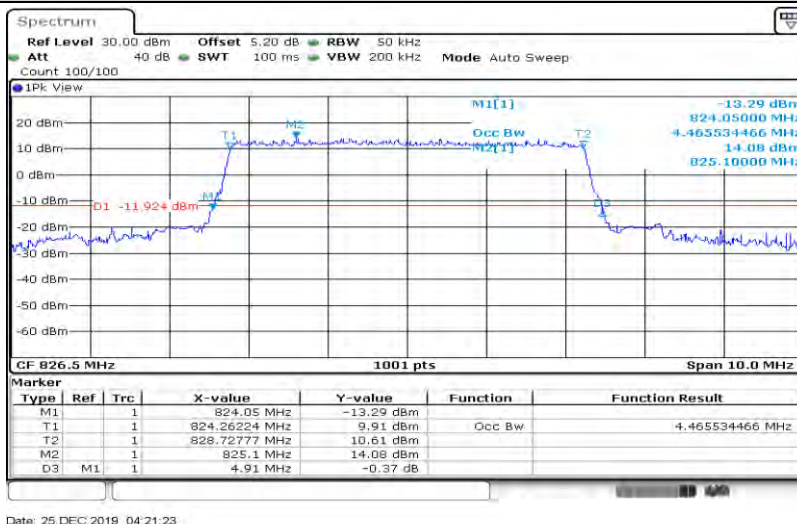


Band5-5MHz-QPSK-20625-25RB#0-4.486





Band5-5MHz-64QAM-20425-25RB#0-4.466

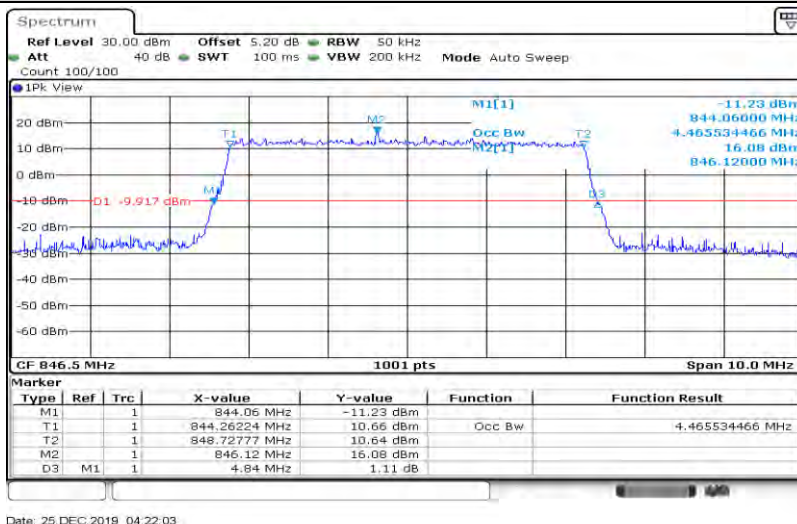


Band5-5MHz-64QAM-20525-25RB#0-4.486



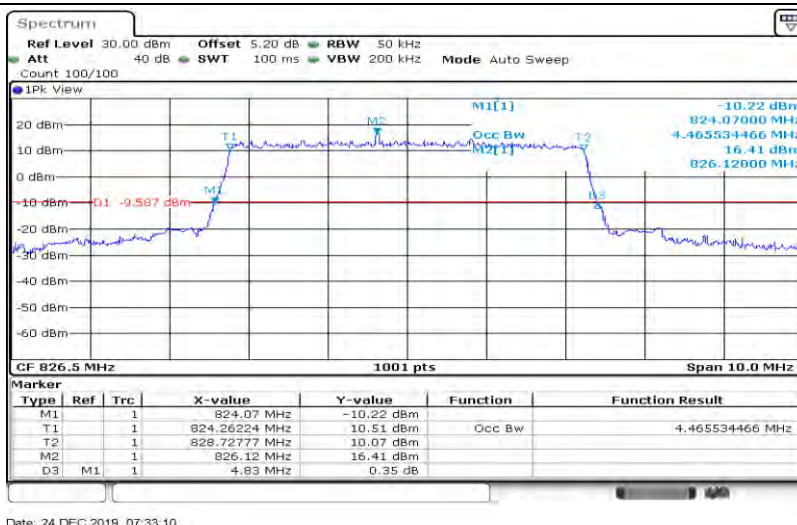


Band5-5MHz-64QAM-20625-25RB#0-4.466



Band5-5MHz-16QAM-20425-25RB#0-4.466



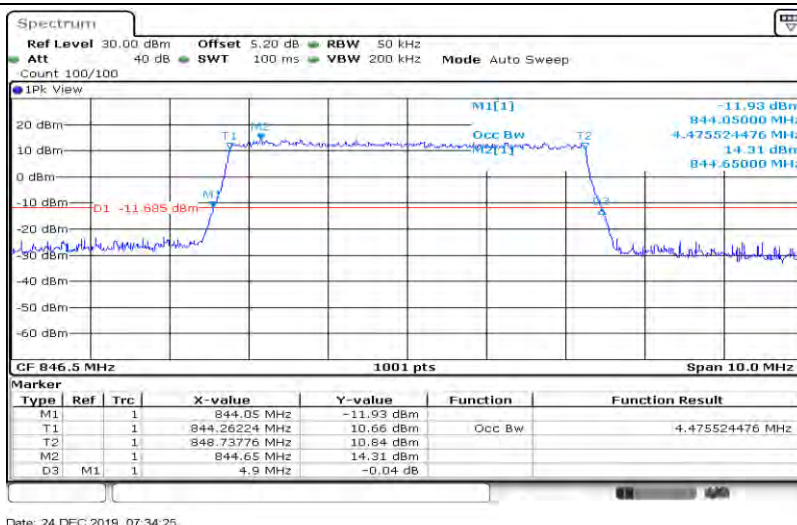


Band5-5MHz-16QAM-20525-25RB#0-4.476

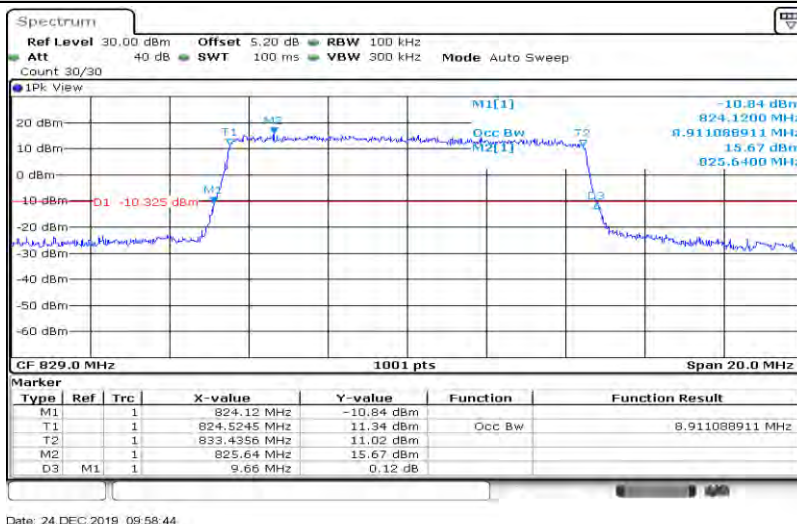


Band5-5MHz-16QAM-20625-25RB#0-4.476





Band5-10MHz-QPSK-20450-50RB#0-8.911



Band5-10MHz-QPSK-20525-50RB#0-8.951



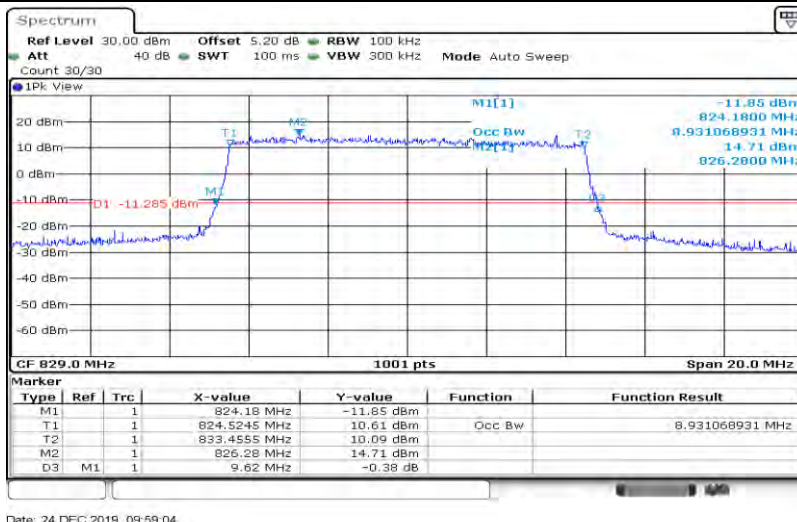


Band5-10MHz-QPSK-20600-50RB#0-8.911

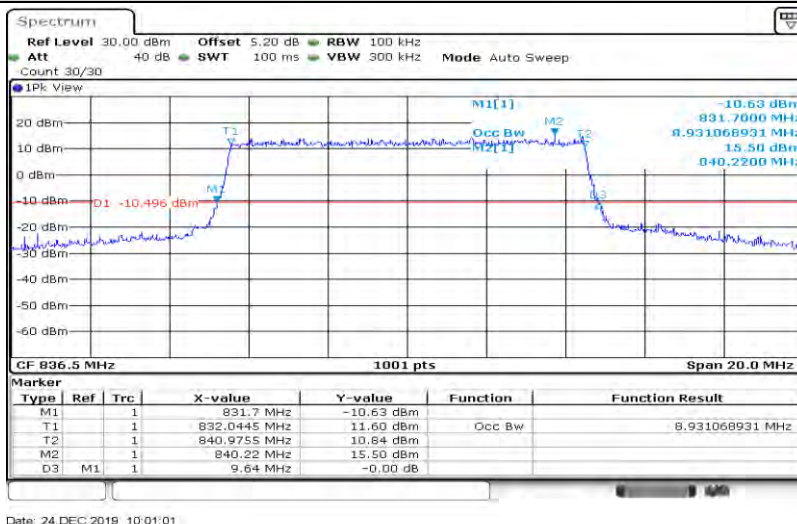


Band5-10MHz-64QAM-20450-50RB#0-8.931



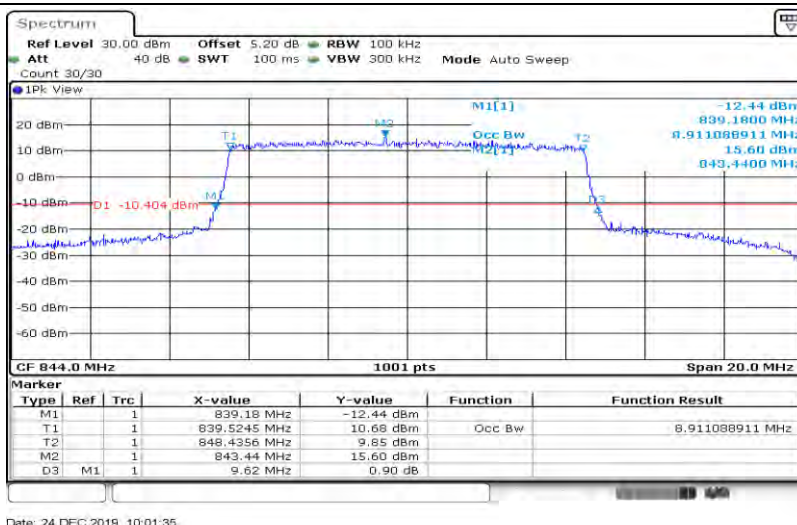


Band5-10MHz-64QAM-20525-50RB#0-8.931

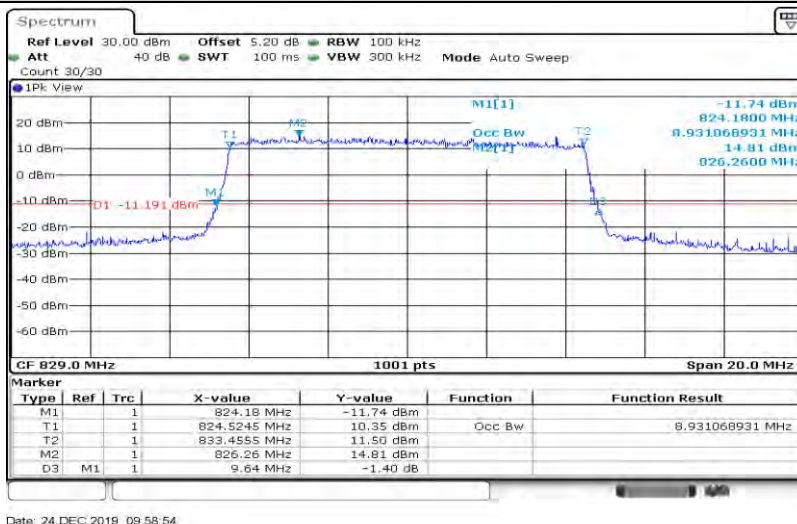


Band5-10MHz-64QAM-20600-50RB#0-8.911



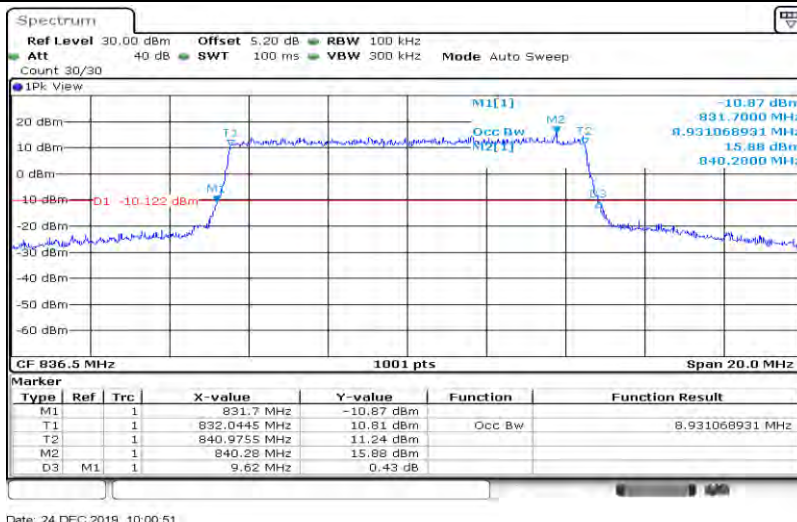


Band5-10MHz-16QAM-20450-50RB#0-8.931

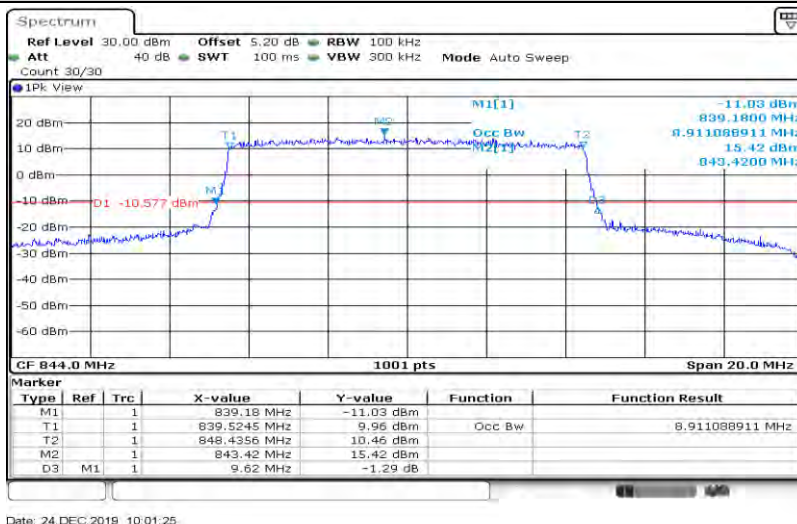


Band5-10MHz-16QAM-20525-50RB#0-8.931





Band5-10MHz-16QAM-20600-50RB#0-8.911





5. Band Edge Compliance

5.1. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20643-1RB#5



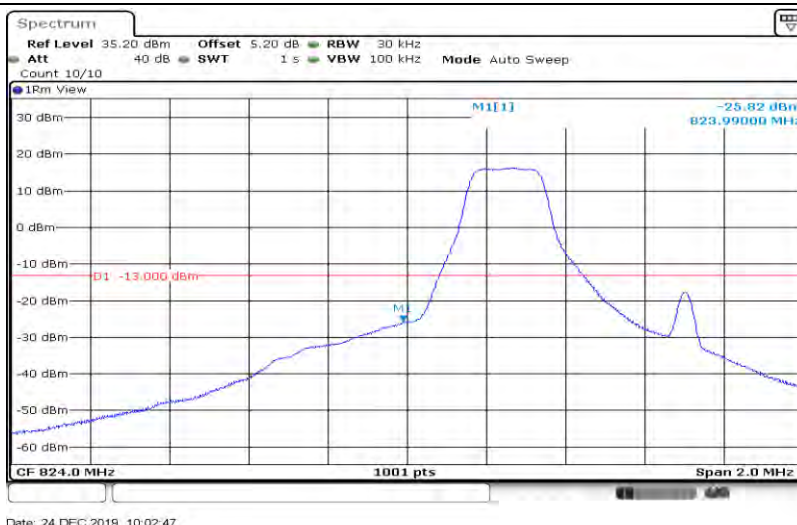


Band5-1.4MHz-QPSK-20643-6RB#0



Band5-1.4MHz-64QAM-20407-1RB#0





Band5-1.4MHz-64QAM-20407-6RB#0



Band5-1.4MHz-64QAM-20643-1RB#5





Band5-1.4MHz-64QAM-20643-6RB#0



Band5-1.4MHz-16QAM-20407-1RB#0





Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20643-1RB#5





Band5-1.4MHz-16QAM-20643-6RB#0



Band5-3MHz-QPSK-20415-1RB#0





Band5-3MHz-QPSK-20415-15RB#0



Band5-3MHz-QPSK-20635-1RB#14





Band5-3MHz-QPSK-20635-15RB#0



Band5-3MHz-64QAM-20415-1RB#0





Band5-3MHz-64QAM-20415-15RB#0



Band5-3MHz-64QAM-20635-1RB#14





Band5-3MHz-64QAM-20635-15RB#0



Band5-3MHz-16QAM-20415-1RB#0



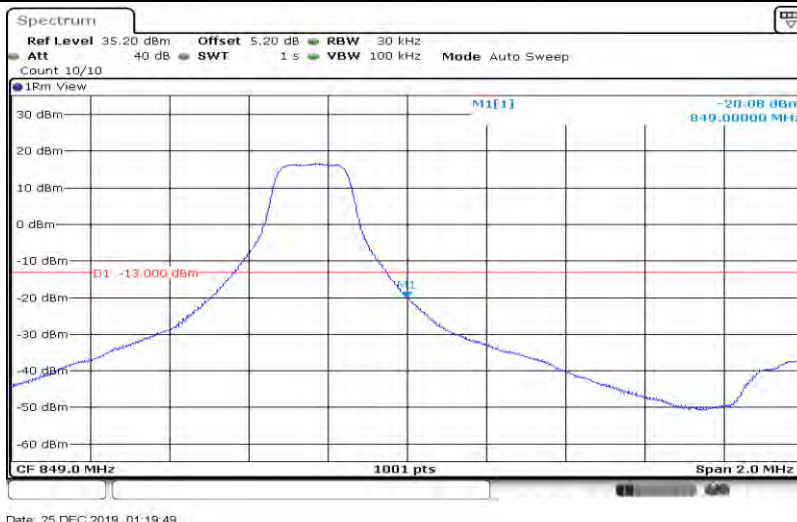


Band5-3MHz-16QAM-20415-15RB#0



Band5-3MHz-16QAM-20635-1RB#14





Band5-3MHz-16QAM-20635-15RB#0



Band5-5MHz-QPSK-20425-1RB#0





Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20625-1RB#24





Band5-5MHz-QPSK-20625-25RB#0



Band5-5MHz-64QAM-20425-1RB#0





Band5-5MHz-64QAM-20425-25RB#0



Band5-5MHz-64QAM-20625-1RB#24





Band5-5MHz-64QAM-20625-25RB#0



Band5-5MHz-16QAM-20425-1RB#0





Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20625-1RB#24





Band5-5MHz-16QAM-20625-25RB#0



Band5-10MHz-QPSK-20450-1RB#0





Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-1RB#49





Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-64QAM-20450-1RB#0





Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20600-1RB#49





Band5-10MHz-64QAM-20600-50RB#0



Band5-10MHz-16QAM-20450-1RB#0





Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20600-1RB#49





Band5-10MHz-16QAM-20600-50RB#0



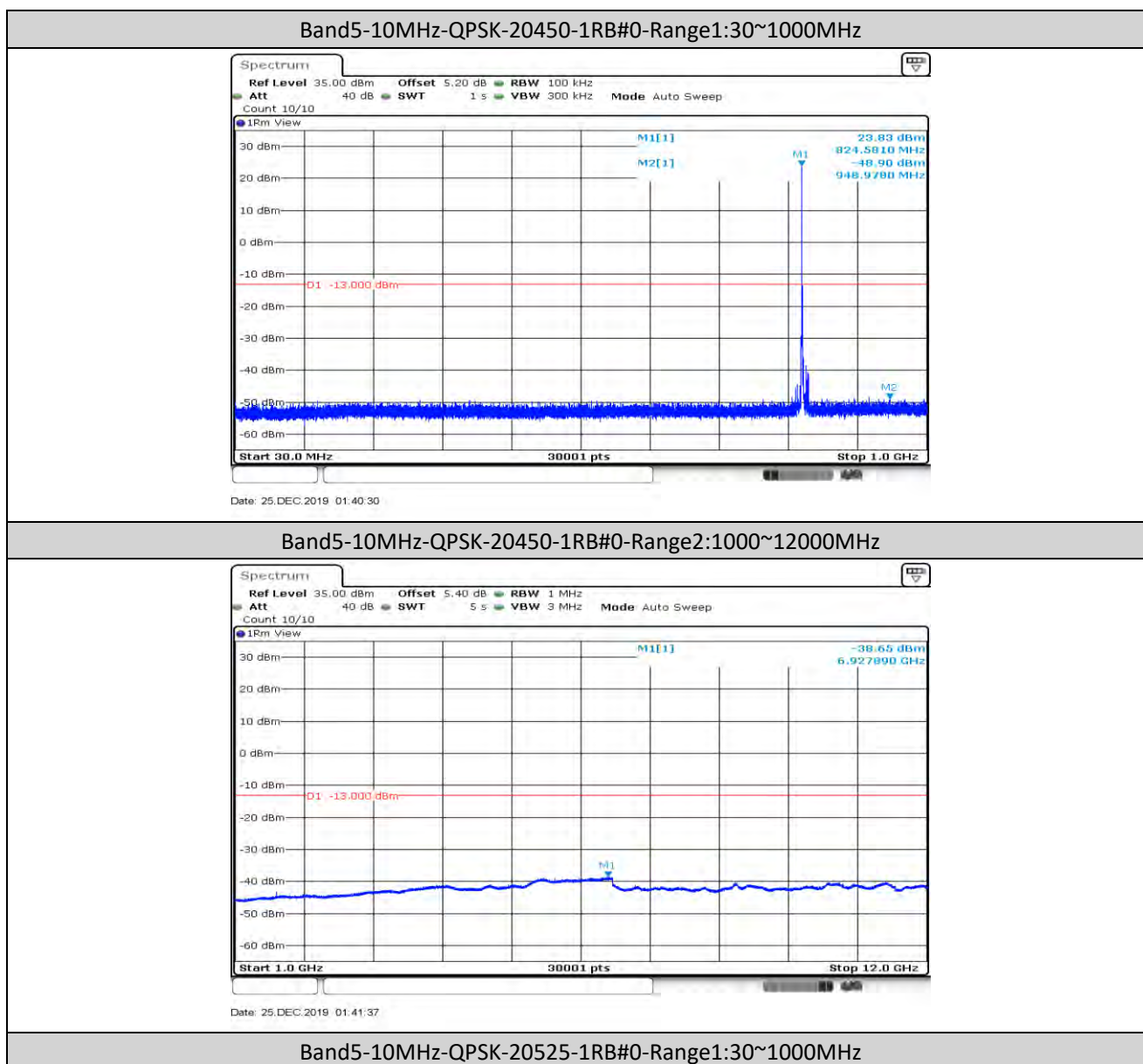


6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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

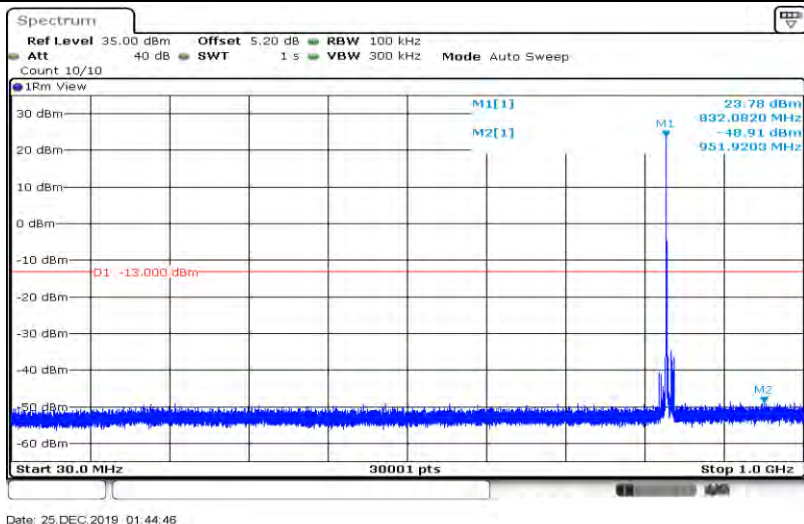


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

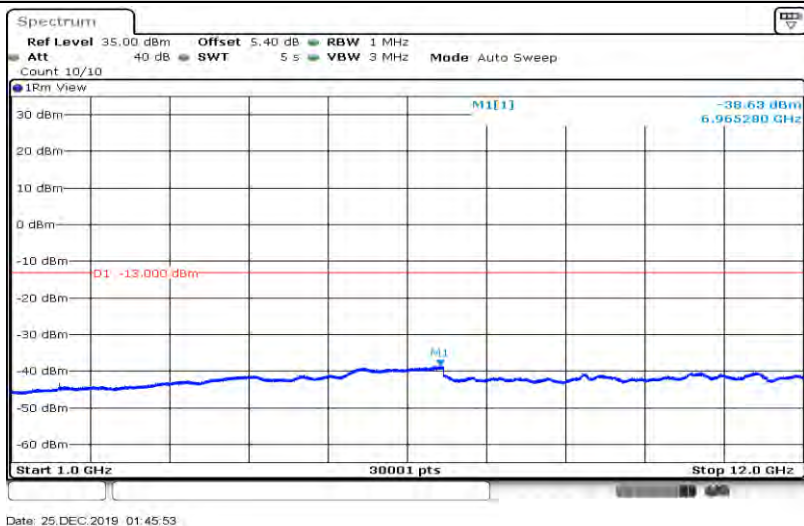
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

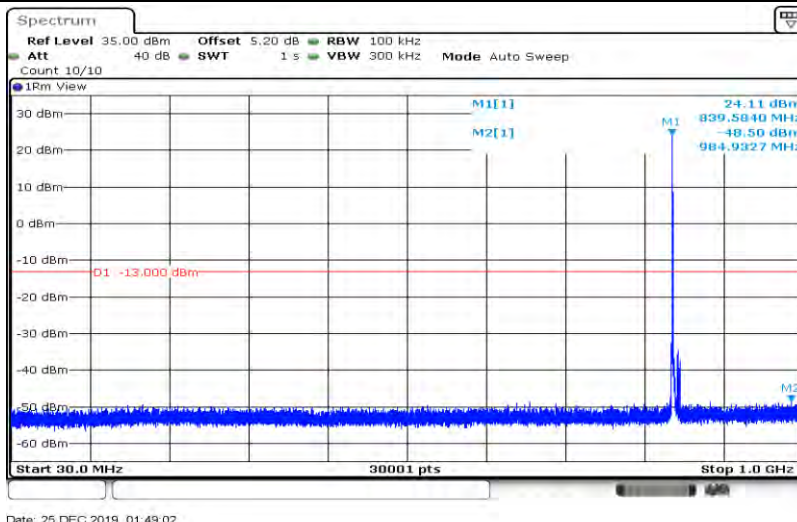


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz

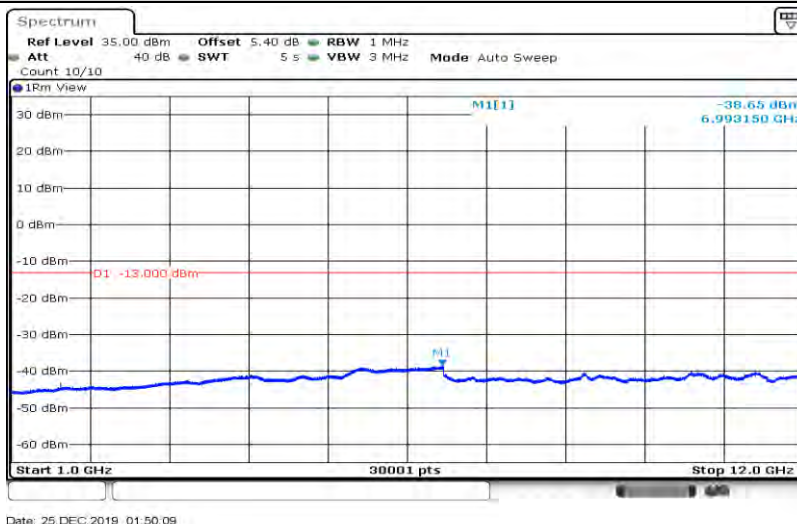


Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



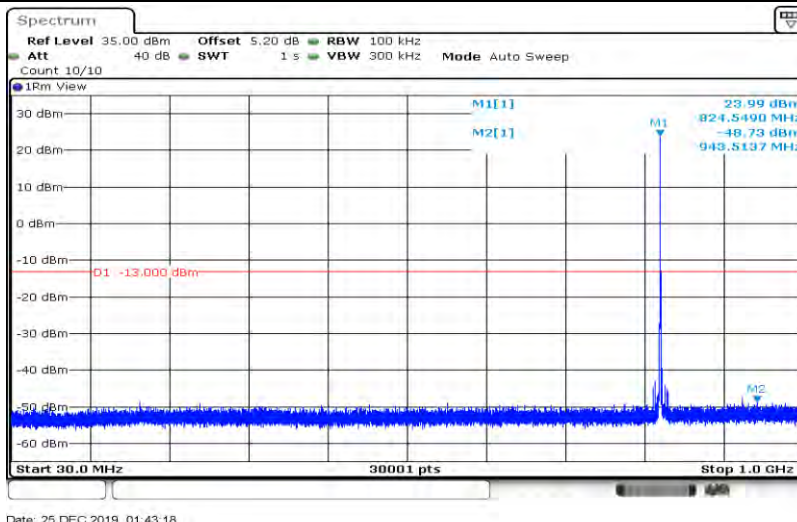


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz

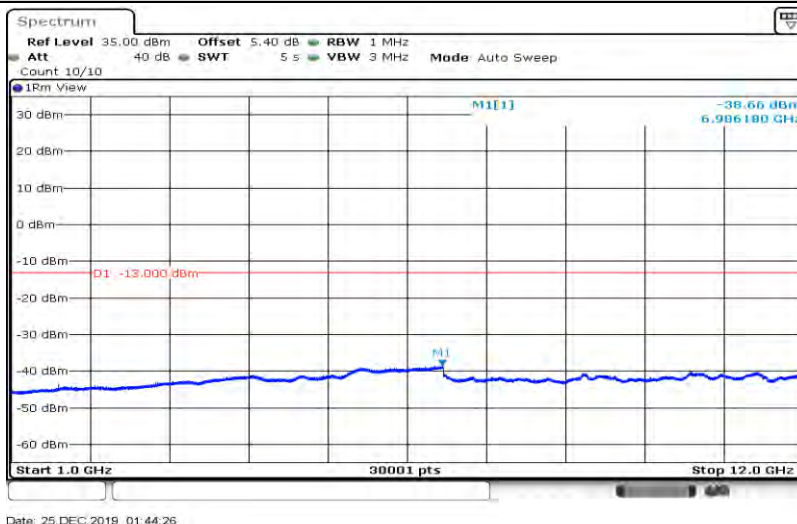


Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz



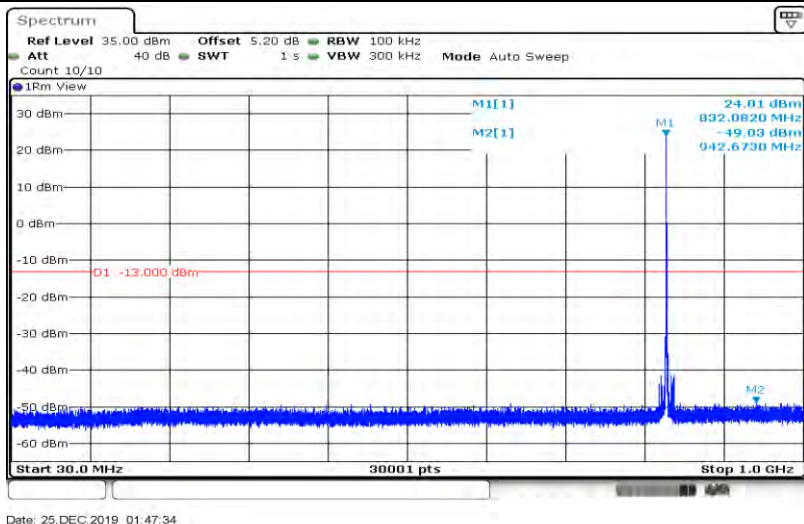


Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~12000MHz

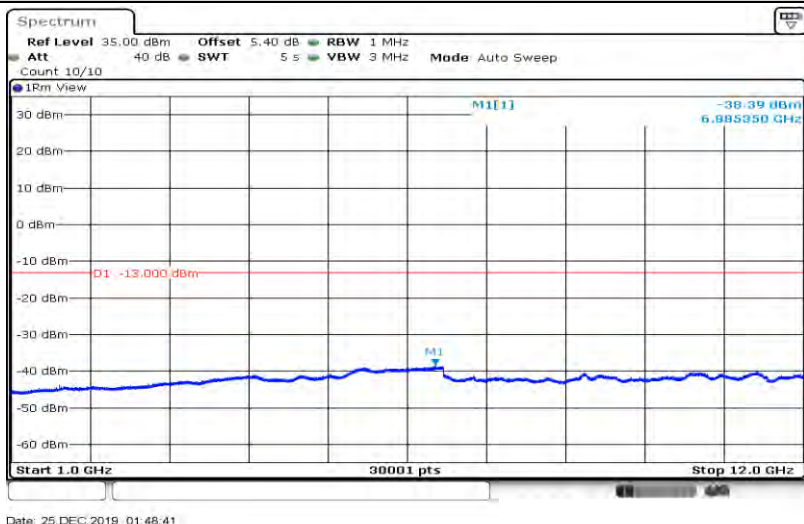


Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



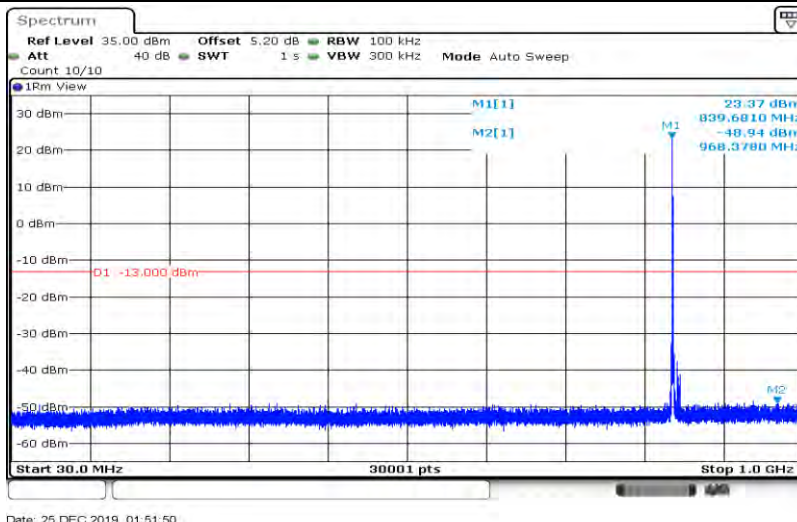


Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~12000MHz

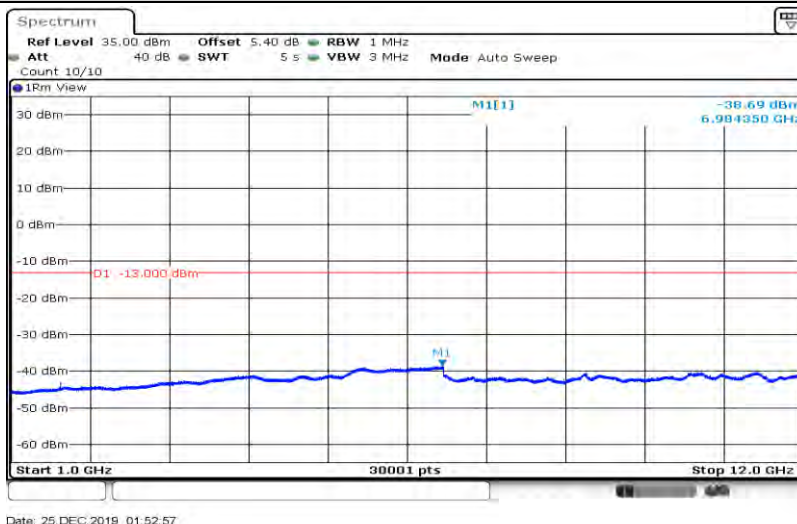


Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz



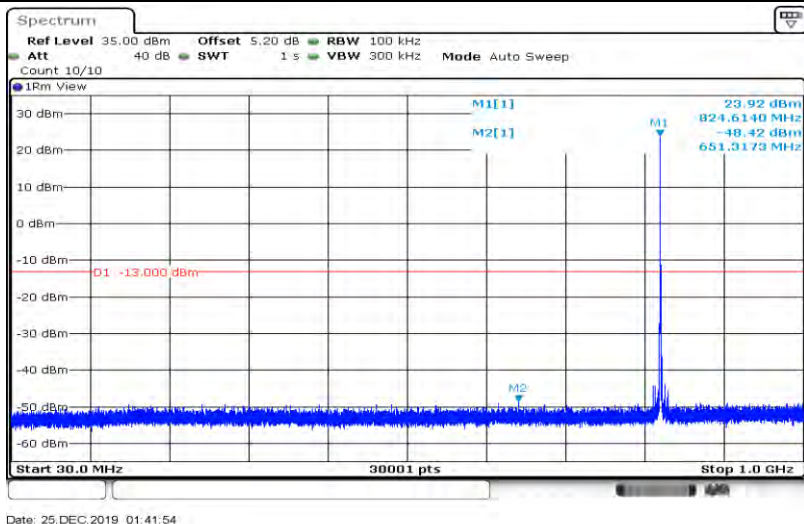


Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~12000MHz

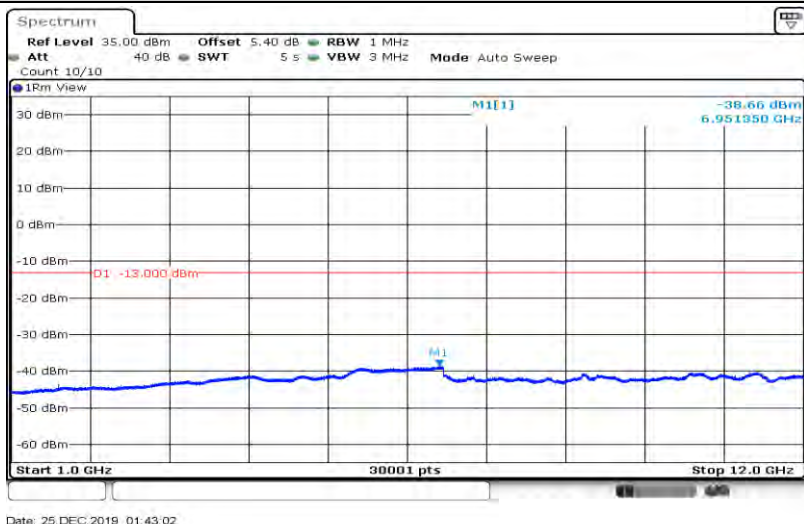


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



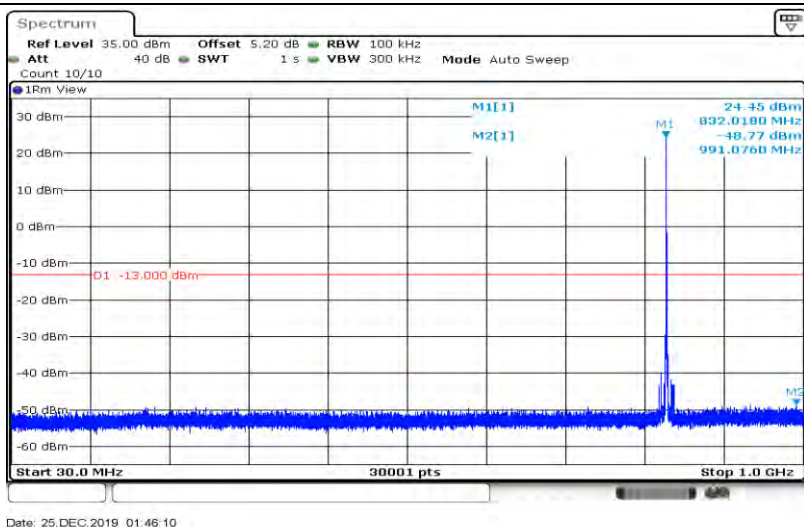


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz

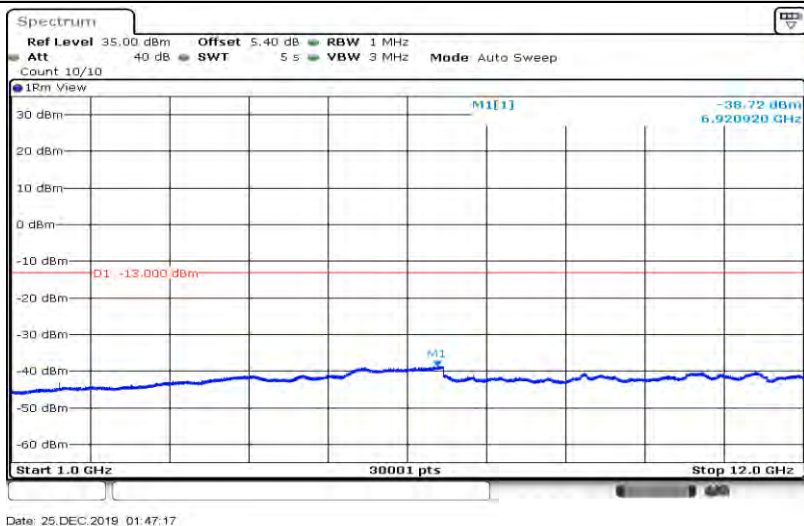


Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz





Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



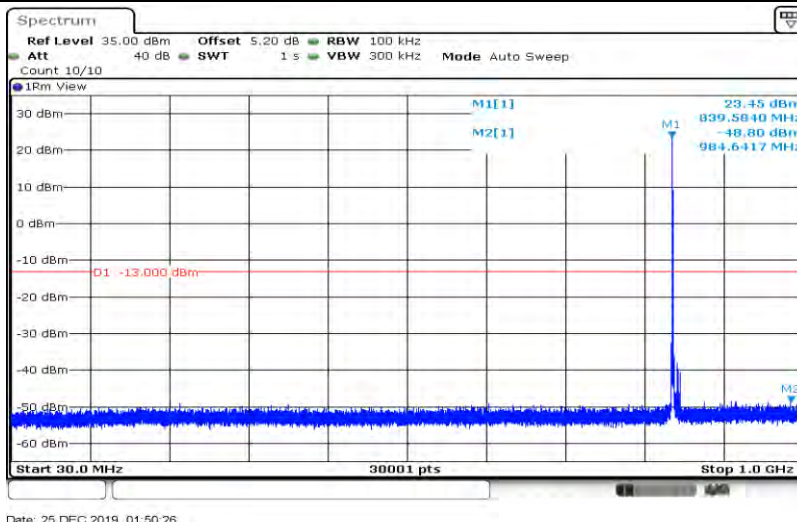
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



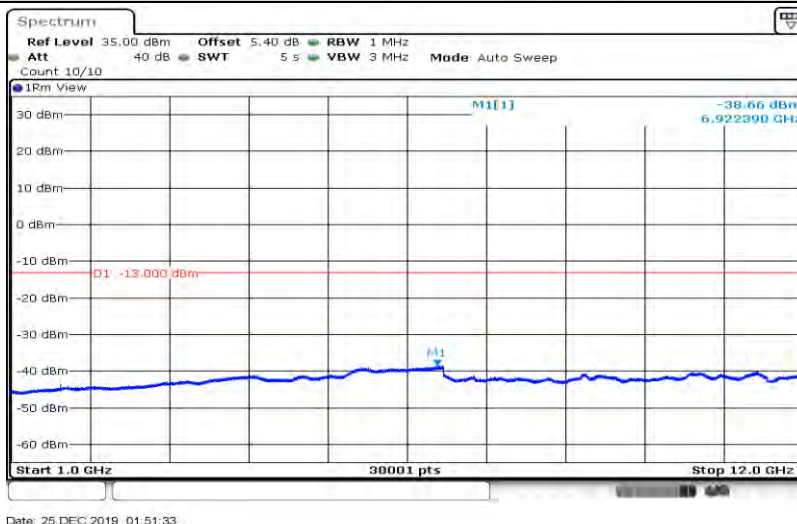
Unless otherwise agreed in writing this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 deemed to have read, understood and accepted the Terms and Conditions of the document and to have agreed to follow the 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 the prior written approval of the company. Any unauthorized reproduction, forgery or falsification of the content or of the form of this document is prohibited. The results and the full analysis of the sample(s) tested shall be available, unless otherwise stated in 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 (South China) EEC Laboratory

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



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 (Ant0)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.9830	-69.89	-13.00	56.89	185	35	Vertical
109.9320	-62.73	-13.00	49.73	132	98	Vertical
579.7265	-61.16	-13.00	48.16	274	287	Vertical
1648.9298	-62.30	-13.00	49.30	199	138	Vertical
2991.1982	-56.57	-13.00	43.57	255	200	Vertical
7382.7461	-57.69	-13.00	44.69	152	67	Vertical
42.4166	-63.01	-13.00	50.01	233	69	Horizontal
238.0754	-65.07	-13.00	52.07	231	358	Horizontal
679.8355	-59.93	-13.00	46.93	127	199	Horizontal
1648.9298	-60.10	-13.00	47.10	172	145	Horizontal
2999.1998	-56.75	-13.00	43.75	196	217	Horizontal
7472.1491	-58.33	-13.00	45.33	240	37	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.0615	-70.71	-13.00	57.71	274	4	Vertical
113.1817	-62.38	-13.00	49.38	152	4	Vertical
601.6981	-60.94	-13.00	47.94	196	4	Vertical
1664.1328	-63.72	-13.00	50.72	176	132	Vertical
2999.5999	-56.75	-13.00	43.75	272	270	Vertical
7434.5478	-57.93	-13.00	44.93	215	194	Vertical
42.6106	-62.90	-13.00	49.90	166	321	Horizontal
233.8557	-64.70	-13.00	51.70	173	258	Horizontal
680.5630	-59.38	-13.00	46.38	121	321	Horizontal
1664.5329	-63.57	-13.00	50.57	172	42	Horizontal
3000.0000	-56.84	-13.00	43.84	222	282	Horizontal
7381.1460	-58.65	-13.00	45.65	296	194	Horizontal



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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
48.2369	-70.72	-13.00	57.72	253	322	Vertical
110.8535	-62.76	-13.00	49.76	272	353	Vertical
600.8735	-61.04	-13.00	48.04	169	4	Vertical
1678.9358	-63.28	-13.00	50.28	132	133	Vertical
3000.0000	-56.56	-13.00	43.56	273	294	Vertical
8022.9674	-57.82	-13.00	44.82	177	290	Vertical
41.2041	-62.71	-13.00	49.71	172	68	Horizontal
233.7587	-65.96	-13.00	52.96	252	100	Horizontal
572.7421	-58.41	-13.00	45.41	231	227	Horizontal
1678.9358	-61.43	-13.00	48.43	271	141	Horizontal
2951.1902	-57.08	-13.00	44.08	228	117	Horizontal
7451.7484	-58.54	-13.00	45.54	196	4	Horizontal

7.2. Test Mode =LTE/TM1 (Ant1)

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
44.7932	-72.10	-13.00	59.10	159	102	Vertical
110.5140	-63.05	-13.00	50.05	196	38	Vertical
645.8838	-61.62	-13.00	48.62	231	325	Vertical
1648.9298	-64.19	-13.00	51.19	225	44	Vertical
3000.0000	-56.19	-13.00	43.19	284	166	Vertical
7357.1452	-57.69	-13.00	44.69	196	293	Vertical
42.2711	-62.41	-13.00	49.41	258	292	Horizontal
236.6203	-65.75	-13.00	52.75	274	101	Horizontal
987.1954	-53.95	-13.00	40.95	196	165	Horizontal
1648.9298	-61.05	-13.00	48.05	231	156	Horizontal
3000.0000	-56.16	-13.00	43.16	262	5	Horizontal
7437.5479	-58.33	-13.00	45.33	294	260	Horizontal





7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
106.4883	-63.28	-13.00	50.28	159	104	Vertical
606.6453	-60.43	-13.00	47.43	185	40	Vertical
999.8060	-53.12	-13.00	40.12	174	293	Vertical
1664.1328	-63.91	-13.00	50.91	321	62	Vertical
2947.1894	-56.99	-13.00	43.99	262	25	Vertical
7314.1438	-58.55	-13.00	45.55	269	72	Vertical
41.6406	-62.99	-13.00	49.99	254	5	Horizontal
237.1539	-65.93	-13.00	52.93	163	5	Horizontal
998.9329	-52.93	-13.00	39.93	213	324	Horizontal
1664.1328	-59.88	-13.00	46.88	288	144	Horizontal
2907.5815	-57.97	-13.00	44.97	291	182	Horizontal
7229.7410	-59.39	-13.00	46.39	154	292	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
51.9716	-70.70	-13.00	57.70	185	262	Vertical
109.1075	-62.49	-13.00	49.49	196	9	Vertical
606.9363	-61.18	-13.00	48.18	184	40	Vertical
987.3894	-52.89	-13.00	39.89	231	356	Vertical
2999.5999	-56.30	-13.00	43.30	262	92	Vertical
7178.3393	-59.84	-13.00	46.84	248	356	Vertical
41.2526	-62.84	-13.00	49.84	174	194	Horizontal
229.6360	-64.58	-13.00	51.58	185	194	Horizontal
999.6120	-53.38	-13.00	40.38	258	258	Horizontal
1678.9358	-61.11	-13.00	48.11	249	157	Horizontal
3000.0000	-56.71	-13.00	43.71	184	4	Horizontal
7364.5455	-58.54	-13.00	45.54	196	323	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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

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



- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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

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

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

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



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	2.80	0.003378	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.40	0.001674	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	1.20	0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	1.40	0.001659	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	3.50	0.004222	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	2.20	0.002654	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	3.90	0.004704	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	1.00	0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	1.90	0.002271	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-3.10	-0.003706	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-6.10	-0.007227	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	2.70	0.003199	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	-4.90	-0.005806	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	1.90	0.002292	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	1.80	0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-3.90	-0.004662	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	2.10	0.002488	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-3.50	-0.004147	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	0.60	0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	2.30	0.002774	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-3.00	-0.003619	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-4.20	-0.005066	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	2.80	0.003378	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-3.50	-0.004184	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.30	0.001554	±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
 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



Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.10	-0.007292	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.30	-0.002750	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-4.60	-0.005499	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-6.50	-0.007770	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-2.70	-0.003199	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-5.60	-0.006635	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.80	0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-3.60	-0.004265	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-3.10	-0.003673	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	1.50	0.001777	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	-5.50	-0.006634	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-2.60	-0.003136	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	0.40	0.000483	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-4.70	-0.005669	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-3.40	-0.004101	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	3.00	0.003619	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	2.30	0.002750	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	-3.10	-0.003706	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-4.00	-0.004782	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	0.40	0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-5.70	-0.006754	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	2.80	0.003318	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-2.70	-0.003199	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-5.20	-0.006161	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	4.30	0.005095	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	1.10	0.001303	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	-3.40	-0.004028	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-4.00	-0.004825	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	1.30	0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-5.60	-0.006755	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	0.30	0.000362	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	1.10	0.001315	±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
 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



Band5	10MHz	16QAM	20525	50RB#0	NV	0	1.40	0.001674	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-5.30	-0.006336	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-4.20	-0.005021	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-3.60	-0.004304	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.30	0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-5.20	-0.006161	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-2.20	-0.002607	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	0.90	0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-3.40	-0.004028	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	0.50	0.000592	±2.5	PASS

The End



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

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