



Appendix B

E-UTRA Band CA_2A-4A





CONTENT

Page

1	EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	3
1.1.1.	MAX POWER TEST RESULT FOR LTE BAND CA_2A-4A	3
2	BAND EDGES COMPLIANCE	11
2.1	FOR LTE.....	11
2.1.1	Test Band = LTE Band CA_2A-4A	11
3	SPURIOUS EMISSION AT ANTENNA TERMINAL	36
3.1	FOR LTE.....	36
3.1.1	Test Band = LTE Band CA_2A-4A	36
4	FIELD STRENGTH OF SPURIOUS RADIATION	45
4.1.	TEST MODE =LTE/TM1 20&20 MHz_ANT DOWN	45
4.1.1.	TEST CHANNEL = LCH_HORIZONTAL.....	45
4.1.2.	TEST CHANNEL = LCH_VERTICAL.....	46
4.1.3.	TEST CHANNEL = MCH_HORIZONTAL	47
4.1.4.	TEST CHANNEL = MCH_VERTICAL	48
4.1.5.	TEST CHANNEL = HCH_HORIZONTAL	49
4.1.6.	TEST CHANNEL = HCH_VERTICAL.....	50



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

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

1 Effective (Isotropic) Radiated Power Output Data

1.1.1. Max Power Test Result for LTE Band CA_2A-4A

PCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	15MHz	QPSK	18675	1RB#0	23.16	27.16	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.77	26.77	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.88	26.88	33	PASS
Band2	15MHz	QPSK	18675	36RB#0	21.69	25.69	33	PASS
Band2	15MHz	QPSK	18675	36RB#18	21.79	25.79	33	PASS
Band2	15MHz	QPSK	18675	36RB#39	21.69	25.69	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.66	25.66	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.23	27.23	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.81	26.81	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.87	26.87	33	PASS
Band2	15MHz	QPSK	18900	36RB#18	21.96	25.96	33	PASS
Band2	15MHz	QPSK	18900	36RB#39	21.58	25.58	33	PASS
Band2	15MHz	QPSK	18900	36RB#0	21.81	25.81	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.87	25.87	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.12	27.12	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.67	26.67	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.06	27.06	33	PASS
Band2	15MHz	QPSK	19125	36RB#39	22.02	26.02	33	PASS
Band2	15MHz	QPSK	19125	36RB#0	21.68	25.68	33	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.90	25.9	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.99	25.99	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	20.70	24.70	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.74	24.74	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.75	24.75	33	PASS
Band2	15MHz	64QAM	18675	36RB#39	19.68	23.68	33	PASS
Band2	15MHz	64QAM	18675	36RB#18	19.56	23.56	33	PASS
Band2	15MHz	64QAM	18675	36RB#0	19.30	23.30	33	PASS





Band2	15MHz	64QAM	18675	75RB#0	19.48	23.48	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	20.83	24.83	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	20.58	24.58	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	20.50	24.50	33	PASS
Band2	15MHz	64QAM	18900	36RB#0	19.57	23.57	33	PASS
Band2	15MHz	64QAM	18900	36RB#39	19.72	23.72	33	PASS
Band2	15MHz	64QAM	18900	36RB#18	19.51	23.51	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	19.23	23.23	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	20.33	24.33	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	20.40	24.40	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	20.60	24.60	33	PASS
Band2	15MHz	64QAM	19125	36RB#18	19.88	23.88	33	PASS
Band2	15MHz	64QAM	19125	36RB#39	19.23	23.23	33	PASS
Band2	15MHz	64QAM	19125	36RB#0	19.16	23.16	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.36	23.36	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.00	26.00	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.59	25.59	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.76	25.76	33	PASS
Band2	15MHz	16QAM	18675	36RB#39	20.92	24.92	33	PASS
Band2	15MHz	16QAM	18675	36RB#18	20.70	24.70	33	PASS
Band2	15MHz	16QAM	18675	36RB#0	20.93	24.93	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.67	24.67	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.07	26.07	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.36	25.36	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.90	25.90	33	PASS
Band2	15MHz	16QAM	18900	36RB#18	20.99	24.99	33	PASS
Band2	15MHz	16QAM	18900	36RB#39	20.47	24.47	33	PASS
Band2	15MHz	16QAM	18900	36RB#0	20.58	24.58	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.74	24.74	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.03	26.03	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.31	25.31	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.89	25.89	33	PASS
Band2	15MHz	16QAM	19125	36RB#0	20.78	24.78	33	PASS



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

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

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



Band2	15MHz	16QAM	19125	36RB#39	20.44	24.44	33	PASS
Band2	15MHz	16QAM	19125	36RB#18	20.49	24.49	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.74	24.74	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.80	26.80	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.44	26.44	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.02	27.02	33	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.92	25.92	33	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.73	25.73	33	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.63	25.63	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.77	25.77	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.70	26.70	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.41	26.41	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.79	26.79	33	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.70	25.70	33	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.57	25.57	33	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.51	25.51	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.58	25.58	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.82	26.82	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.25	26.25	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.72	26.72	33	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.69	25.69	33	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.36	25.36	33	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.49	25.49	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.22	25.22	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	21.04	25.04	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.96	24.96	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	20.72	24.72	33	PASS
Band2	20MHz	64QAM	18700	50RB#50	19.98	23.98	33	PASS
Band2	20MHz	64QAM	18700	50RB#25	19.88	23.88	33	PASS
Band2	20MHz	64QAM	18700	50RB#0	19.81	23.81	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.65	23.65	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	20.82	24.82	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	20.82	24.82	33	PASS



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

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

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



Band2	20MHz	64QAM	18900	1RB#49	20.52	24.52	33	PASS
Band2	20MHz	64QAM	18900	50RB#50	19.77	23.77	33	PASS
Band2	20MHz	64QAM	18900	50RB#25	19.80	23.80	33	PASS
Band2	20MHz	64QAM	18900	50RB#0	19.59	23.59	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.58	23.58	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.46	24.46	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	20.54	24.54	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	20.84	24.84	33	PASS
Band2	20MHz	64QAM	19100	50RB#25	19.84	23.84	33	PASS
Band2	20MHz	64QAM	19100	50RB#50	19.68	23.68	33	PASS
Band2	20MHz	64QAM	19100	50RB#0	19.42	23.42	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.63	23.63	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.85	25.85	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.87	25.87	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.01	26.01	33	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.79	24.79	33	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.61	24.61	33	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.46	24.46	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.76	24.76	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.16	26.16	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.72	25.72	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.86	25.86	33	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.38	24.38	33	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.57	24.57	33	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.31	24.31	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.63	24.63	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.14	26.14	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.77	25.77	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.02	26.02	33	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.46	24.46	33	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.45	24.45	33	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.40	24.40	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.47	24.47	33	PASS



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

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

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

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



SCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	10MHz	QPSK	20000	1RB#0	21.49	25.49	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	21.95	25.95	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.29	26.29	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	20.94	24.94	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.40	25.40	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.28	25.28	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.28	25.28	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.23	26.23	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.21	26.21	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.38	26.38	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.24	25.24	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.54	25.54	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.28	25.28	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.52	25.52	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.16	26.16	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.09	26.09	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.20	26.20	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.44	25.44	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.64	25.64	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.25	25.25	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.52	25.52	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.78	25.78	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.74	25.74	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.87	25.87	30	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.61	24.61	30	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.76	24.76	30	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.63	24.63	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.61	24.61	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.78	25.78	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.04	26.04	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.82	25.82	30	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.97	24.97	30	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.82	24.82	30	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.64	24.64	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.02	25.02	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.85	25.85	30	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



Band4	10MHz	64QAM	20350	1RB#24	21.85	25.85	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.60	25.60	30	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.67	24.67	30	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.96	24.96	30	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.71	24.71	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.66	24.66	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.26	25.26	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.45	24.45	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.25	25.25	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.33	24.33	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	19.91	23.91	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.10	24.10	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.19	24.19	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.43	25.43	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.29	25.29	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.52	25.52	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.21	24.21	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.54	24.54	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.38	24.38	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.46	24.46	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.60	25.60	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.70	25.70	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.63	25.63	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.59	24.59	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.49	24.49	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.19	24.19	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.22	24.22	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.49	26.49	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.55	26.55	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.30	26.30	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.47	25.47	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.40	25.40	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.60	25.60	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.32	25.32	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.53	26.53	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.44	26.44	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.29	26.29	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.65	25.65	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.55	25.55	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.72	25.72	30	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



Band4	20MHz	QPSK	20175	100RB#0	21.63	25.63	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.51	26.51	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.52	26.52	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.46	26.46	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.58	25.58	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.65	25.65	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.30	25.30	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.57	25.57	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.59	25.59	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.86	25.86	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.09	26.09	30	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.79	24.79	30	PASS
Band4	20MHz	64QAM	20050	50RB#25	21.01	25.01	30	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.81	24.81	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.79	24.79	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.12	26.12	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.90	25.90	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.97	25.97	30	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.93	24.93	30	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.93	24.93	30	PASS
Band4	20MHz	64QAM	20175	50RB#0	21.01	25.01	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.90	24.90	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.06	26.06	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.71	25.71	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.12	26.12	30	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.87	24.87	30	PASS
Band4	20MHz	64QAM	20300	50RB#0	21.06	25.06	30	PASS
Band4	20MHz	64QAM	20300	50RB#25	21.00	25.00	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.76	24.76	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.71	25.71	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.39	25.39	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.72	25.72	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.47	24.47	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.55	24.55	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.31	24.31	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.47	24.47	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.90	25.90	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.74	25.74	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.47	25.47	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.38	24.38	30	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



Band4	20MHz	16QAM	20175	50RB#0	20.54	24.54	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.66	24.66	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.32	24.32	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.78	25.78	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.77	25.77	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.58	25.58	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.41	24.41	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.66	24.66	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.52	24.52	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.40	24.40	30	PASS

Remark:

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

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

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



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

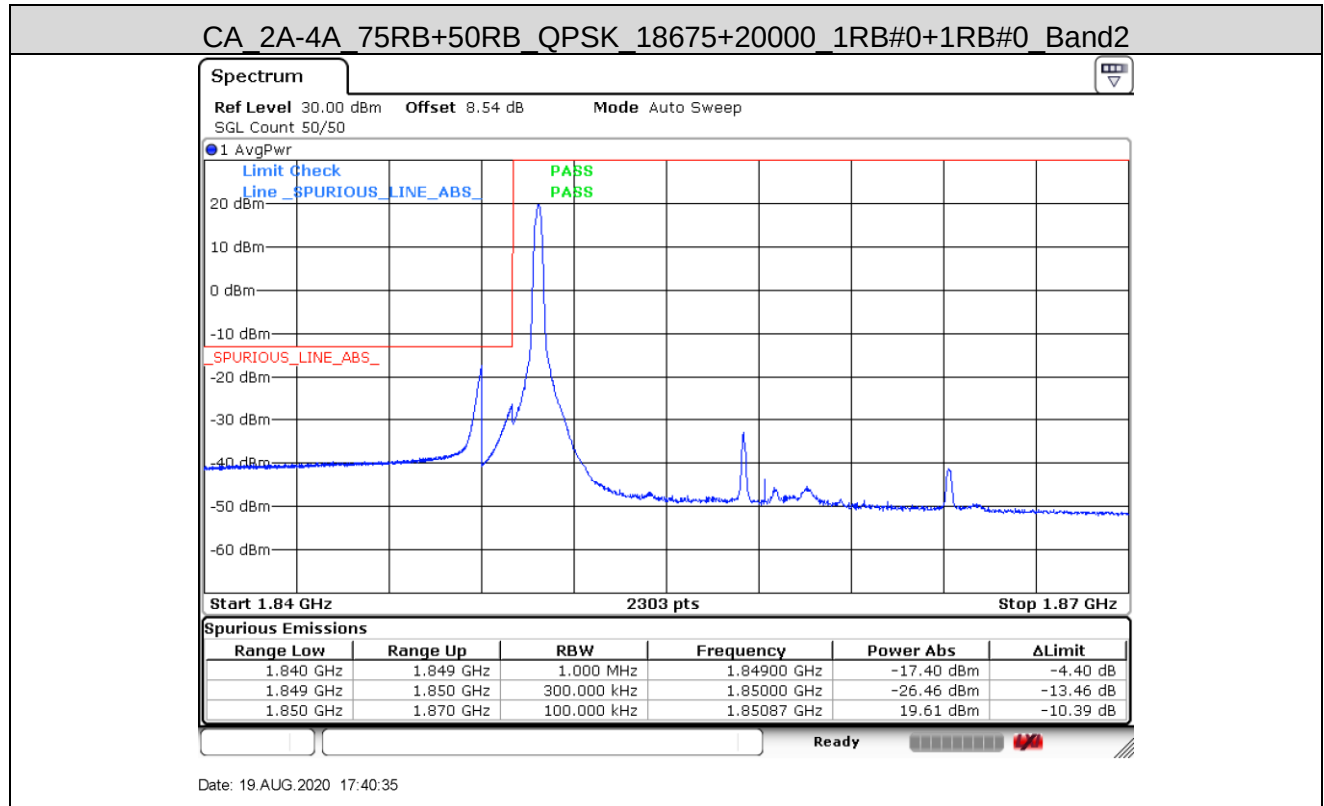
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

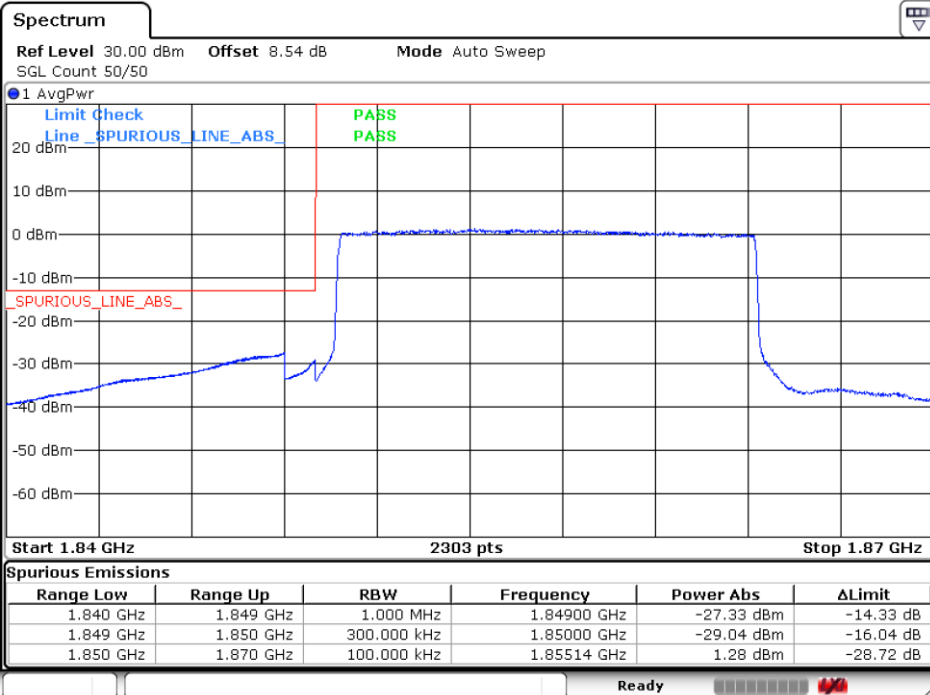
2 Band Edges Compliance

2.1 For LTE

2.1.1 Test Band = LTE Band CA_2A-4A



CA_2A-4A_75RB+50RB_QPSK_18675+20000_75RB#0+50RB#0_Band2



Date: 19.AUG.2020 17:38:32

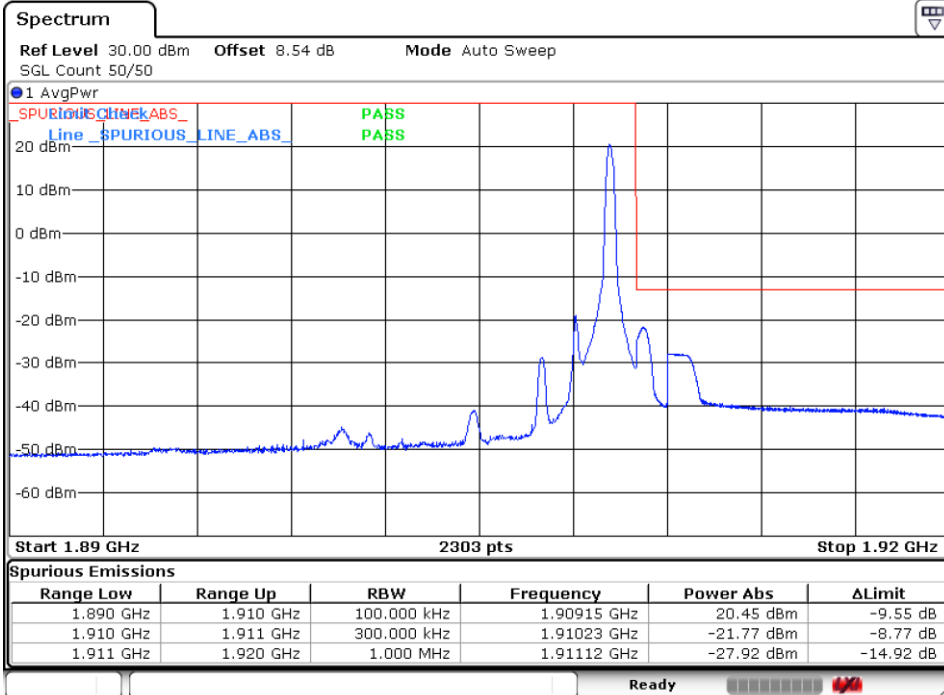


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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

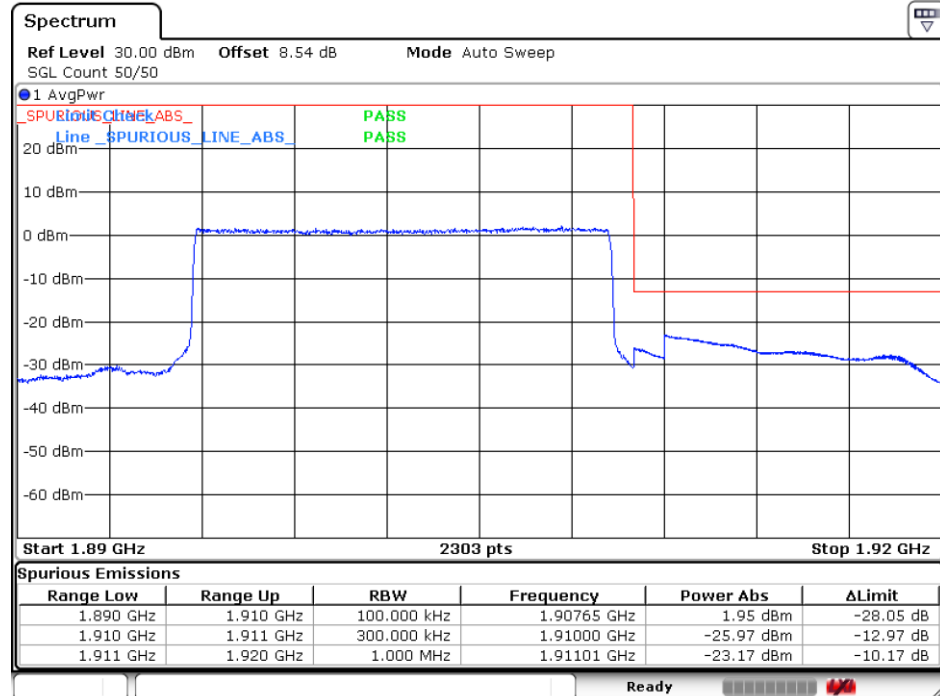
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

CA_2A-4A_75RB+50RB_QPSK_19125+20350_1RB#74+1RB#49_Band2



Date: 19.AUG.2020 17:48:02

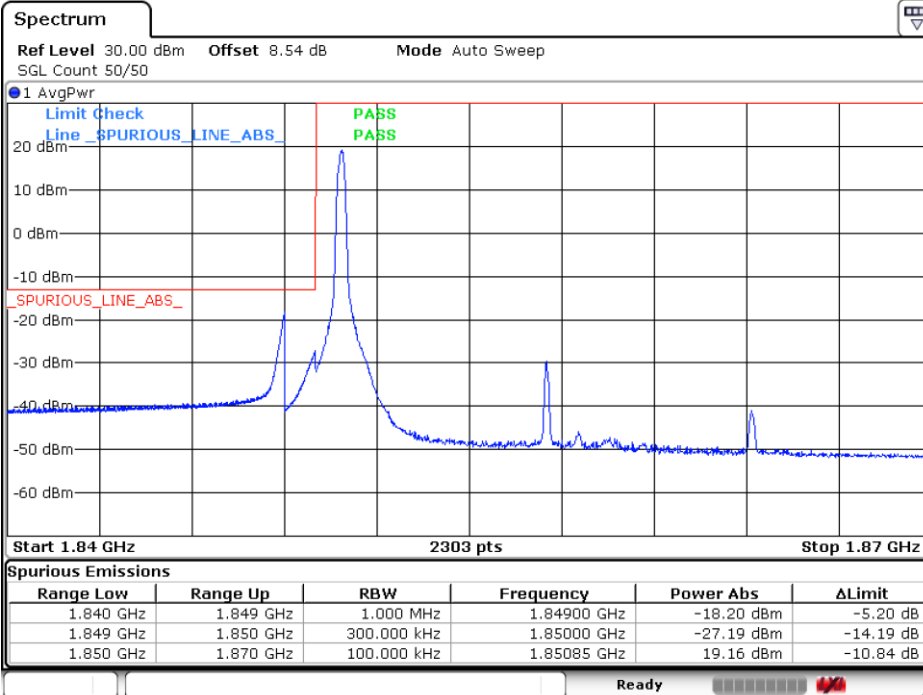
CA_2A-4A_75RB+50RB_QPSK_19125+20350_75RB#0+50RB#0_Band2



Date: 19.AUG.2020 17:51:30

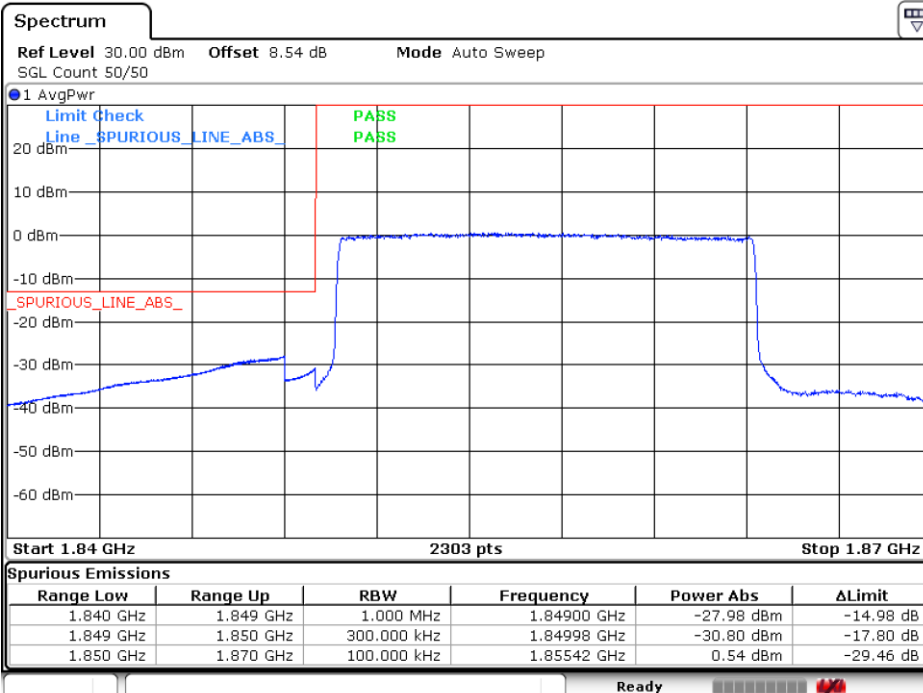


CA 2A-4A 75RB+50RB 16QAM 18675+20000 1RB#0+1RB#0 Band2



Date: 19.AUG.2020 17:40:03

CA 2A-4A 75RB+50RB 16QAM 18675+20000 75RB#0+50RB#0 Band2



Date: 19.AUG.2020 17:39:27



CA 2A-4A 75RB+50RB 16QAM 19125+20350 1RB#74+1RB#49 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90915 GHz	20.05 dBm	-9.95 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91023 GHz	-22.94 dBm	-9.94 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-28.53 dBm	-15.53 dB

Ready

Date: 19.AUG.2020 17:49:29

CA 2A-4A 75RB+50RB 16QAM 19125+20350 75RB#0+50RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

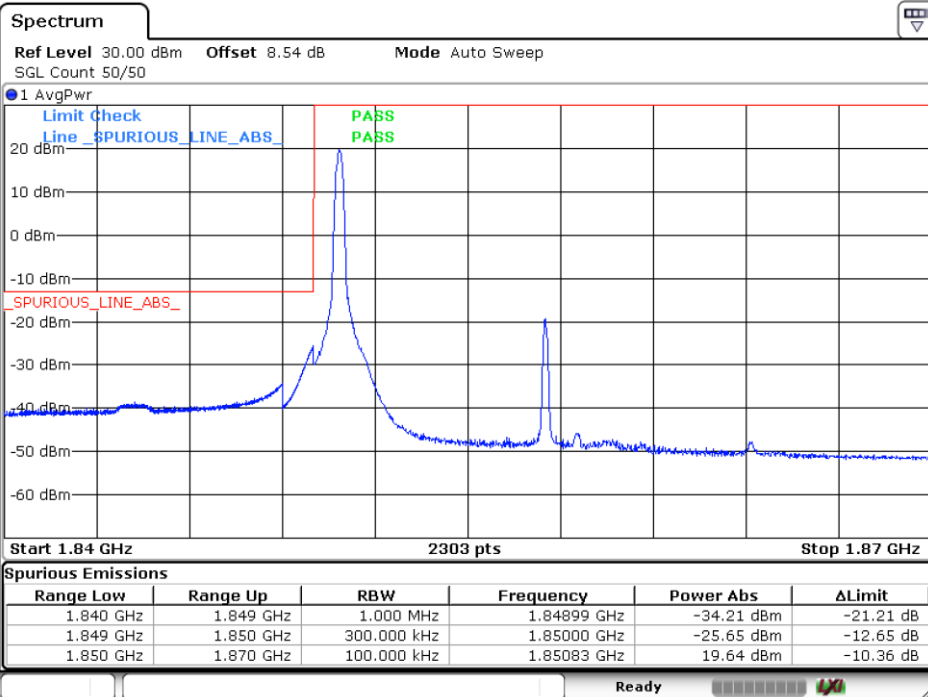
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90785 GHz	1.06 dBm	-28.94 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91000 GHz	-27.15 dBm	-14.15 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-23.68 dBm	-10.68 dB

Ready

Date: 19.AUG.2020 17:50:54

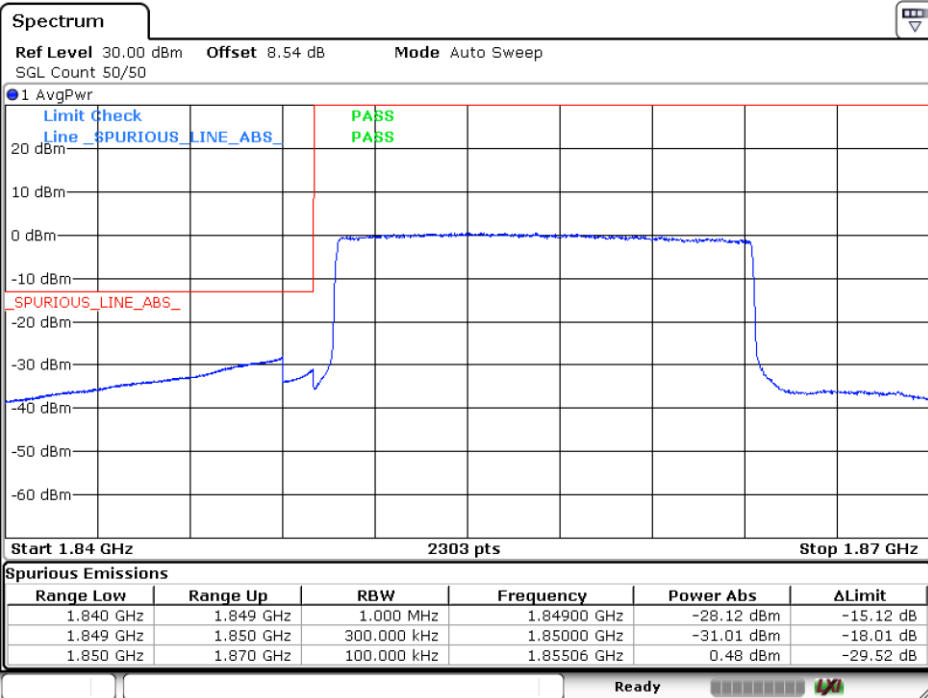


CA_2A-4A_75RB+50RB_64QAM_18675+20000_1RB#0+1RB#0_Band2



Date: 23.AUG.2020 21:35:00

CA_2A-4A_75RB+50RB_64QAM_18675+20000_75RB#0+50RB#0_Band2



Date: 23.AUG.2020 21:33:56



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

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

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

CA 2A-4A 75RB+50RB 64QAM 19125+20350 1RB#74+1RB#49 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90915 GHz	19.48 dBm	-10.52 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91022 GHz	-23.70 dBm	-10.70 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-29.64 dBm	-16.64 dB

Ready

Date: 24.AUG.2020 08:42:35

CA 2A-4A 75RB+50RB 64QAM 19125+20350 75RB#0+50RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90543 GHz	0.46 dBm	-29.04 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91000 GHz	-30.57 dBm	-17.57 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-26.72 dBm	-13.72 dB

Ready

Date: 24.AUG.2020 08:43:55

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

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

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

CA 2A-4A 100RB+100RB QPSK 18700+20050 1RB#0+1RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

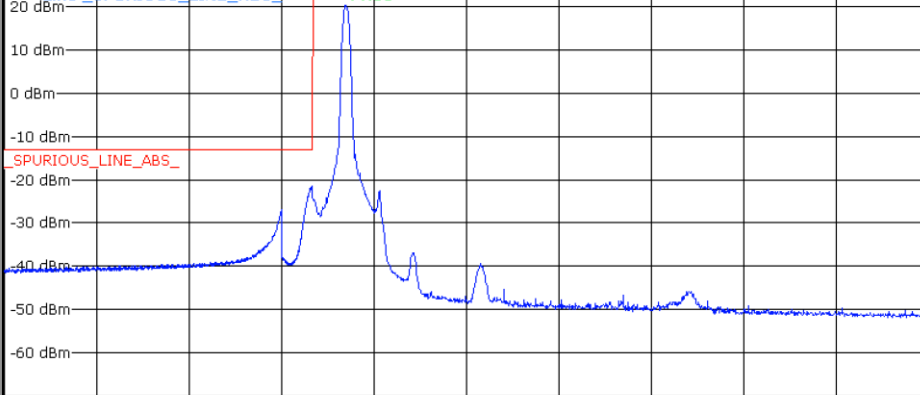
1 AvgPwr

Limit Check

Line SPURIOUS_LINE_ABS_

PASS

PASS



Start 1.84 GHz 2303 pts Stop 1.87 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-26.82 dBm	-13.82 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-21.45 dBm	-8.45 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	20.36 dBm	-9.64 dB

Ready

Date: 19.AUG.2020 17:21:43

CA 2A-4A 100RB+100RB QPSK 18700+20050 100RB#0+100RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

Limit Check

Line SPURIOUS_LINE_ABS_

PASS

PASS



Start 1.84 GHz 2303 pts Stop 1.87 GHz

Spurious Emissions

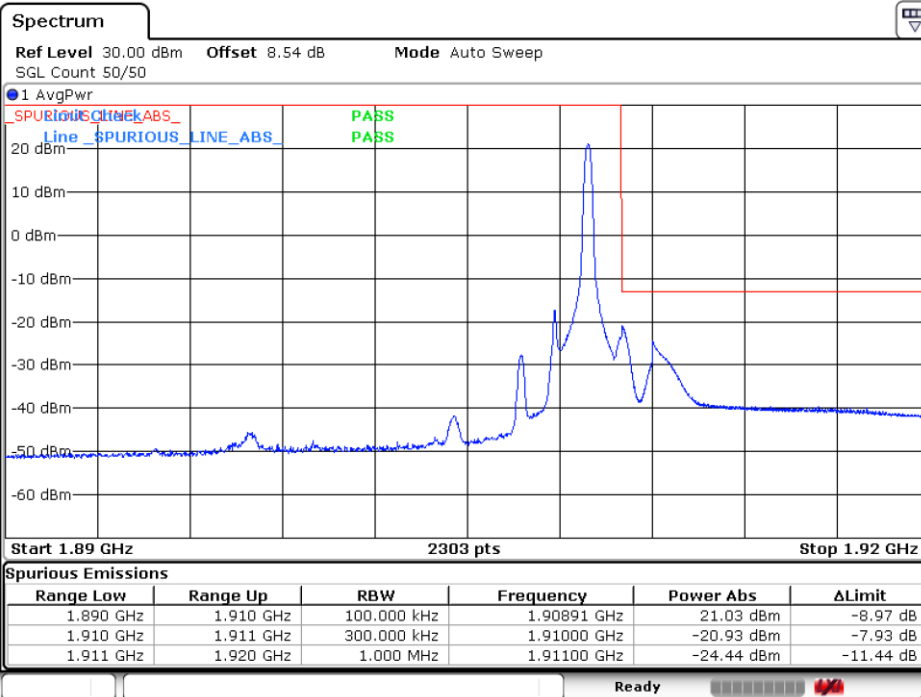
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84999 GHz	-28.81 dBm	-15.81 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.84999 GHz	-31.23 dBm	-18.23 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85425 GHz	0.50 dBm	-29.50 dB

Ready

Date: 19.AUG.2020 17:20:50

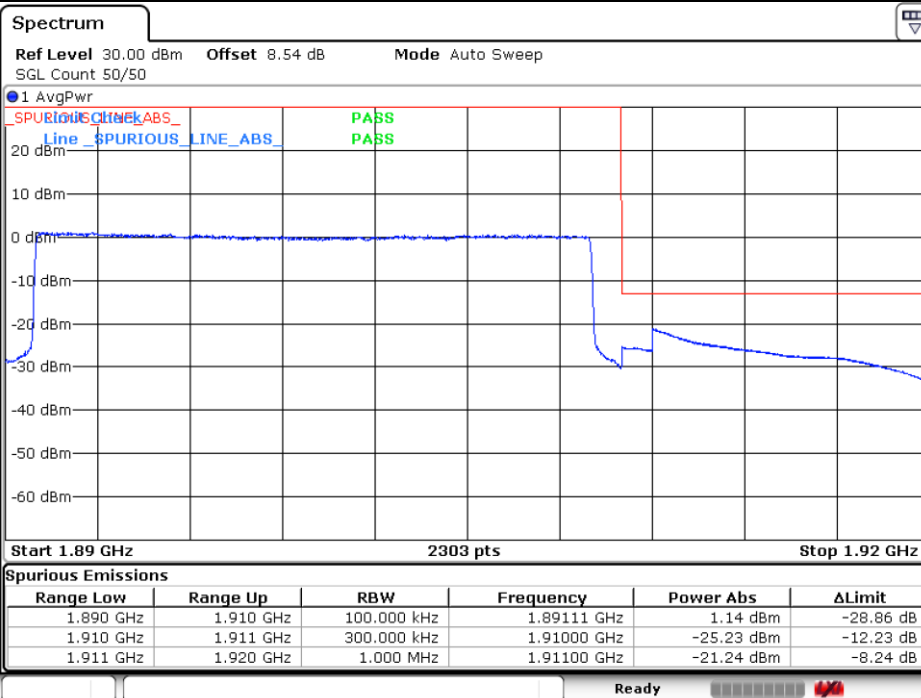


CA 2A-4A 100RB+100RB QPSK 19100+20300 1RB#99+1RB#99 Band2



Date: 19.AUG.2020 17:26:40

CA 2A-4A 100RB+100RB QPSK 19100+20300 100RB#0+100RB#0 Band2



Date: 19.AUG.2020 17:27:14



CA 2A-4A 100RB+100RB 16QAM 18700+20050 1RB#0+1RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

Limit Check

Line SPURIOUS_LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

SPURIOUS_LINE_ABS_

Start 1.84 GHz

2303 pts

Stop 1.87 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-27.65 dBm	-14.65 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-22.81 dBm	-9.81 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	19.68 dBm	-10.32 dB

Ready

Date: 19.AUG.2020 17:22:23

CA 2A-4A 100RB+100RB 16QAM 18700+20050 100RB#0+100RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

Limit Check

Line SPURIOUS_LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

SPURIOUS_LINE_ABS_

Start 1.84 GHz

2303 pts

Stop 1.87 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84999 GHz	-28.82 dBm	-15.82 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-31.89 dBm	-18.89 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85602 GHz	0.03 dBm	-29.97 dB

Ready

Date: 19.AUG.2020 17:20:19



CA 2A-4A 100RB+100RB 16QAM 19100+20300 1RB#99+1RB#99 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHNk ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90893 GHz	20.19 dBm	-9.81 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91000 GHz	-21.84 dBm	-8.84 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-25.34 dBm	-12.34 dB

Ready

Date: 19.AUG.2020 17:25:29

CA 2A-4A 100RB+100RB 16QAM 19100+20300 100RB#0+100RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHNk ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.89 GHz

2303 pts

Stop 1.92 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89179 GHz	0.57 dBm	-29.43 dB
1.910 GHz	1.911 GHz	300.000 kHz	1.91001 GHz	-25.97 dBm	-12.97 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-21.74 dBm	-8.74 dB

Ready

Date: 19.AUG.2020 17:28:04



CA 2A-4A 100RB+100RB 64QAM 18700+20050 1RB#0+1RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

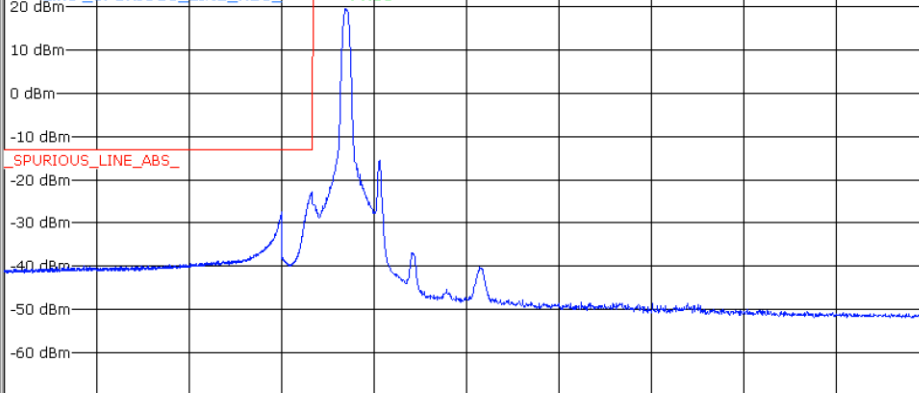
1 AvgPwr

Limit Check

Line SPURIOUS_LINE_ABS_

PASS

PASS



Start 1.84 GHz 2303 pts Stop 1.87 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-27.52 dBm	-14.52 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.85000 GHz	-22.92 dBm	-9.92 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	19.35 dBm	-10.65 dB

Ready

Date: 23.AUG.2020 20:07:17

CA 2A-4A 100RB+100RB 64QAM 18700+20050 100RB#0+100RB#0 Band2

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

Limit Check

Line SPURIOUS_LINE_ABS_

PASS

PASS



Start 1.84 GHz 2303 pts Stop 1.87 GHz

Spurious Emissions

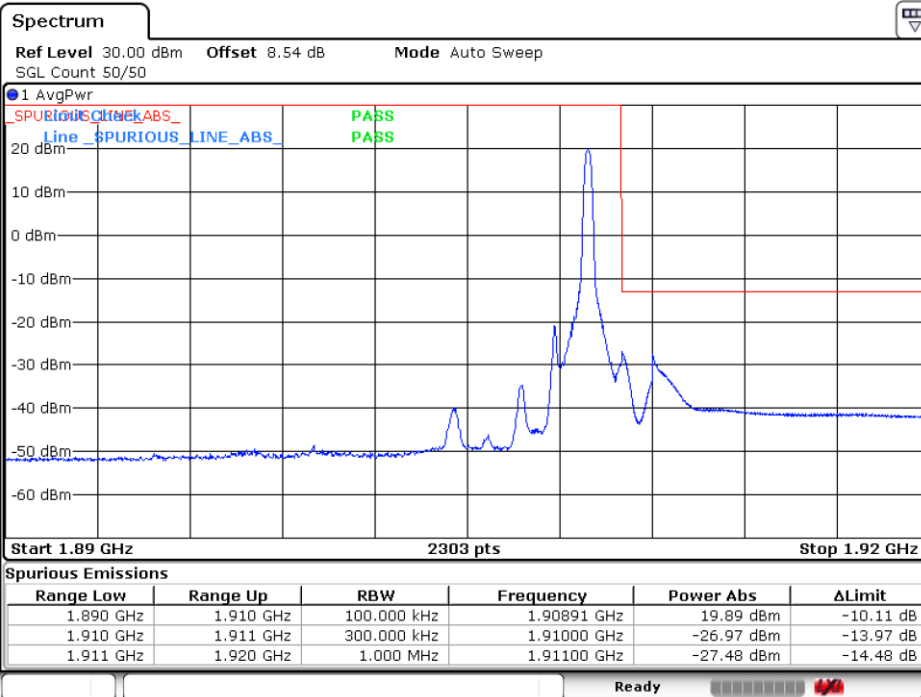
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-31.60 dBm	-18.60 dB
1.849 GHz	1.850 GHz	300.000 kHz	1.84999 GHz	-34.24 dBm	-21.24 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85479 GHz	-0.88 dBm	-30.88 dB

Ready

Date: 23.AUG.2020 20:08:49

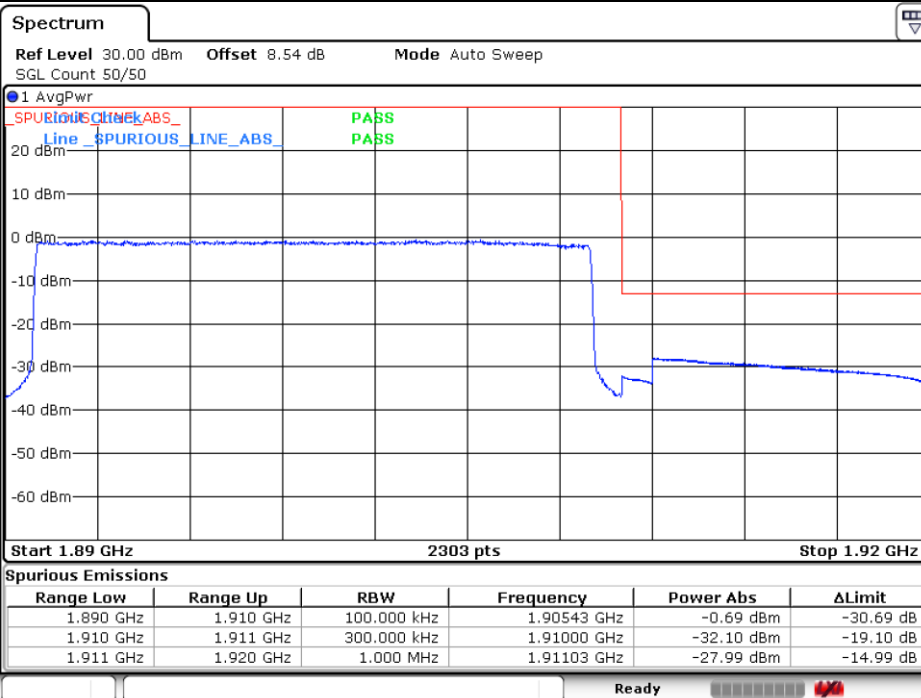


CA 2A-4A 100RB+100RB 64QAM 19100+20300 1RB#99+1RB#99 Band2



Date: 23.AUG.2020 20:23:33

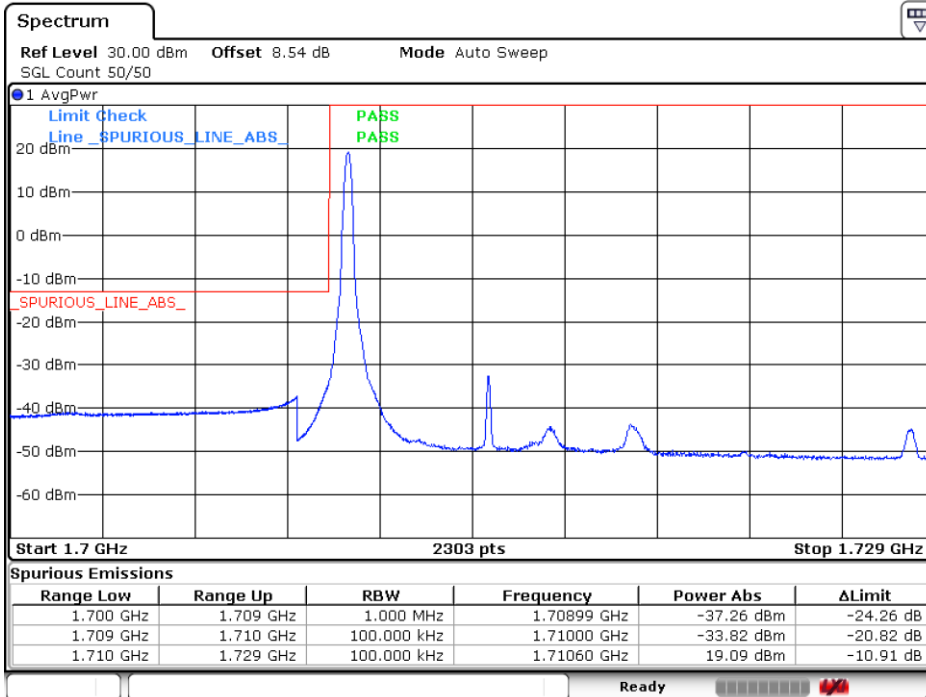
CA 2A-4A 100RB+100RB 64QAM 19100+20300 100RB#0+100RB#0 Band2



Date: 23.AUG.2020 20:24:19

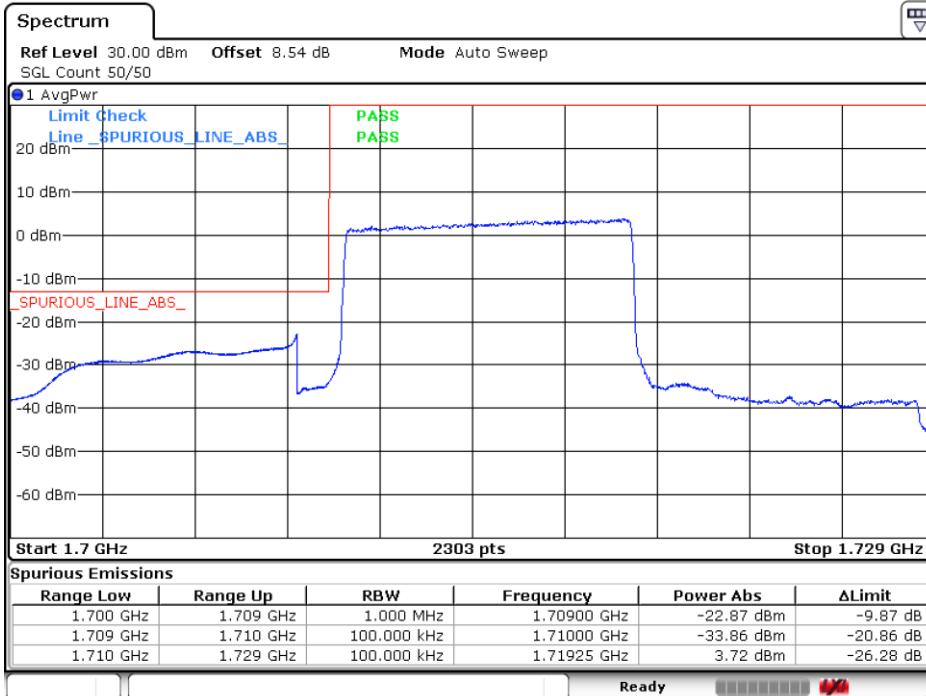


CA_2A-4A_75RB+50RB_QPSK_18675+20000_1RB#0+1RB#0_Band4



Date: 19.AUG.2020 17:44:55

CA_2A-4A_75RB+50RB_QPSK_18675+20000_75RB#0+50RB#0_Band4



Date: 19.AUG.2020 17:43:36

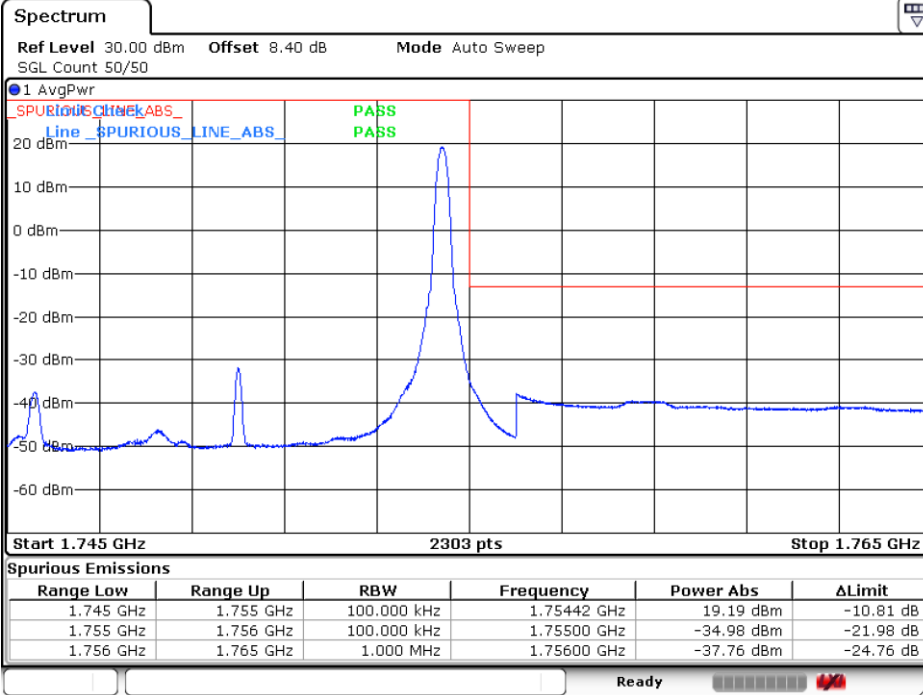


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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

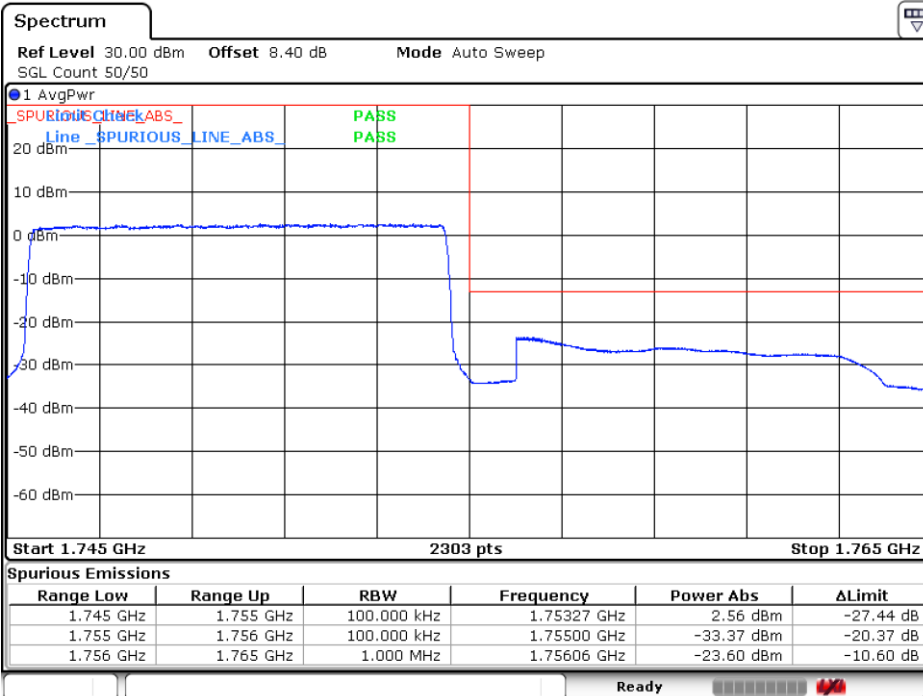
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

CA 2A-4A 75RB+50RB QPSK 19125+20350 1RB#74+1RB#49 Band4



Date: 19.AUG.2020 17:53:45

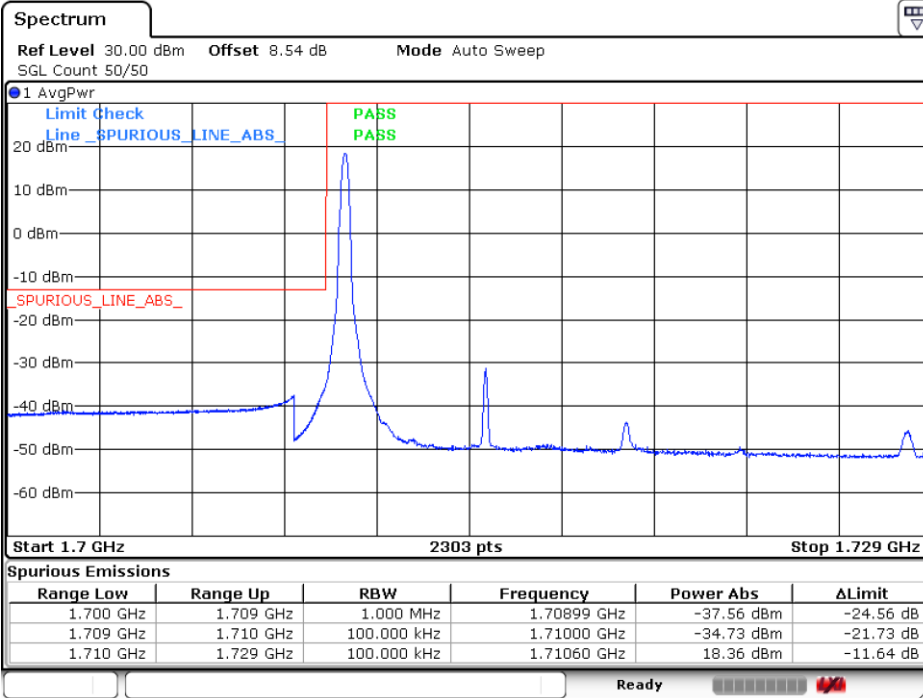
CA 2A-4A 75RB+50RB QPSK 19125+20350 75RB#0+50RB#0 Band4



Date: 19.AUG.2020 17:55:37

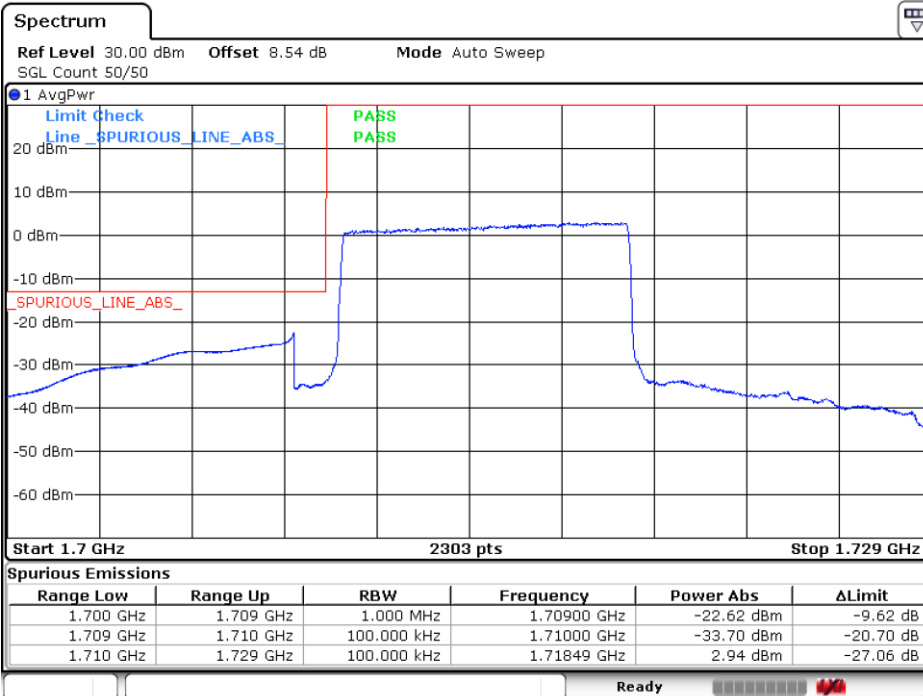


CA 2A-4A 75RB+50RB 16QAM 18675+20000 1RB#0+1RB#0 Band4



Date: 19.AUG.2020 17:45:24

CA 2A-4A 75RB+50RB 16QAM 18675+20000 75RB#0+50RB#0 Band4



Date: 19.AUG.2020 17:43:02

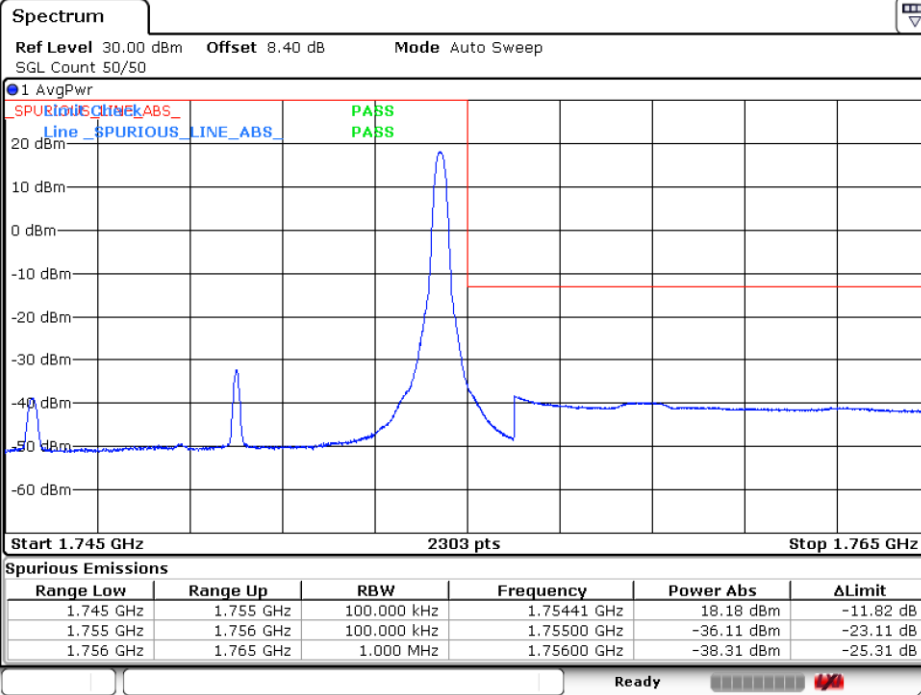


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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

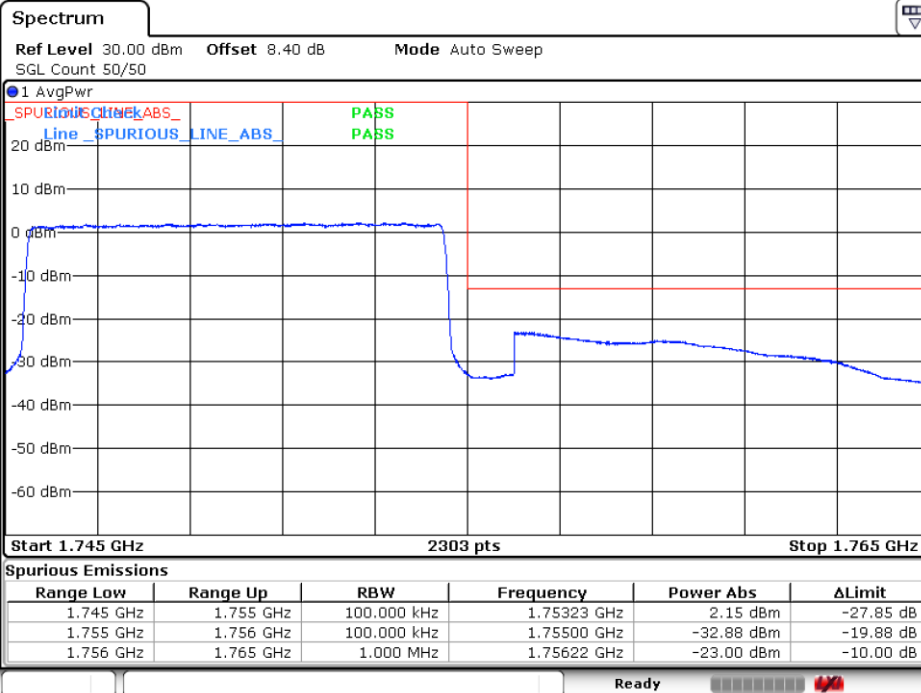
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

CA 2A-4A 75RB+50RB 16QAM 19125+20350 1RB#74+1RB#49 Band4



Date: 19.AUG.2020 17:54:12

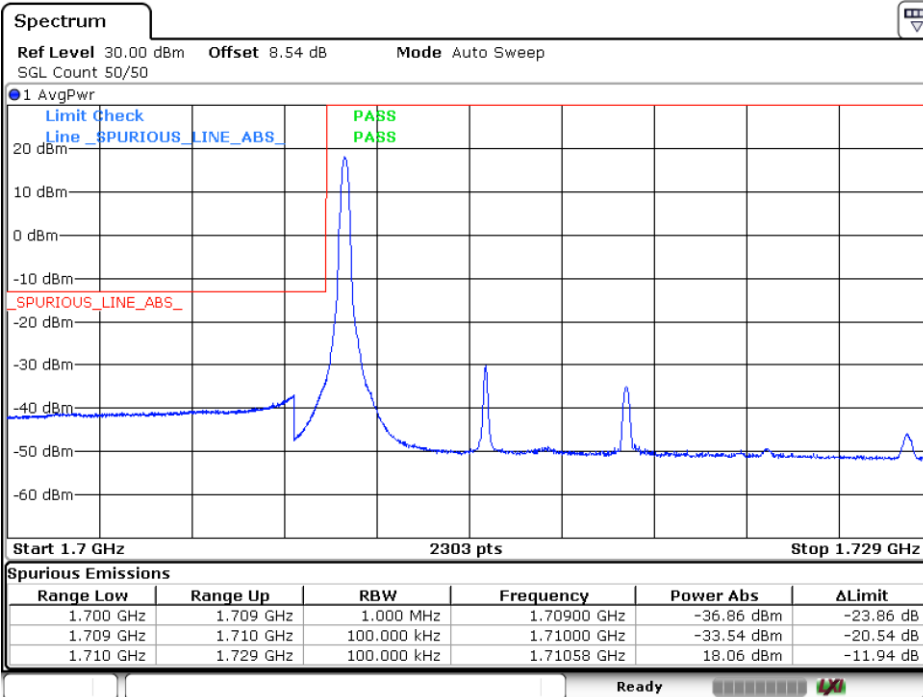
CA 2A-4A 75RB+50RB 16QAM 19125+20350 75RB#0+50RB#0 Band4



Date: 19.AUG.2020 17:54:52

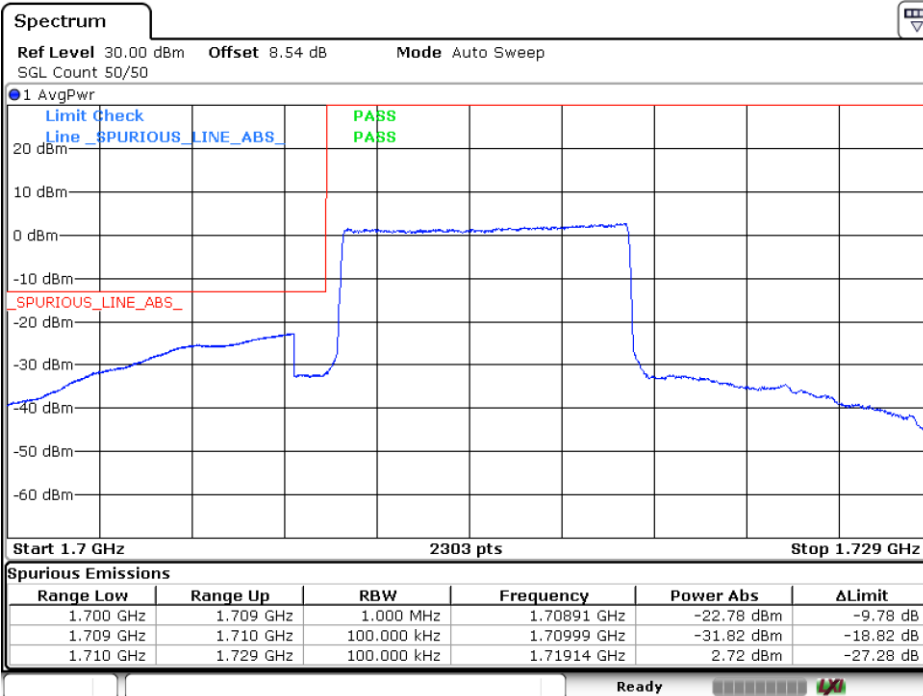


CA 2A-4A 75RB+50RB 64QAM 18675+20000 1RB#0+1RB#0 Band4



Date: 24.AUG.2020 08:35:47

CA 2A-4A 75RB+50RB 64QAM 18675+20000 75RB#0+50RB#0 Band4



Date: 24.AUG.2020 08:36:42



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

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

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

CA 2A-4A 75RB+50RB 64QAM 19125+20350 1RB#74+1RB#49 Band4

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.745 GHz

2303 pts

Stop 1.765 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75441 GHz	16.95 dBm	-13.05 dB
1.755 GHz	1.765 GHz	100.000 kHz	1.75500 GHz	-36.68 dBm	-23.68 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-38.77 dBm	-25.77 dB

Ready

Date: 24.AUG.2020 08:39:42

CA 2A-4A 75RB+50RB 64QAM 19125+20350 75RB#0+50RB#0 Band4

Spectrum

Ref Level 30.00 dBm Offset 8.54 dB Mode Auto Sweep
SGL Count 50/50

1 AvgPwr

SPURIOUS CHECK ABS_

Line SPURIOUS LINE_ABS_

PASS

PASS

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

Start 1.745 GHz

2303 pts

Stop 1.765 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75360 GHz	1.34 dBm	-28.66 dB
1.755 GHz	1.765 GHz	100.000 kHz	1.75501 GHz	-32.47 dBm	-19.47 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-21.25 dBm	-8.25 dB

Ready

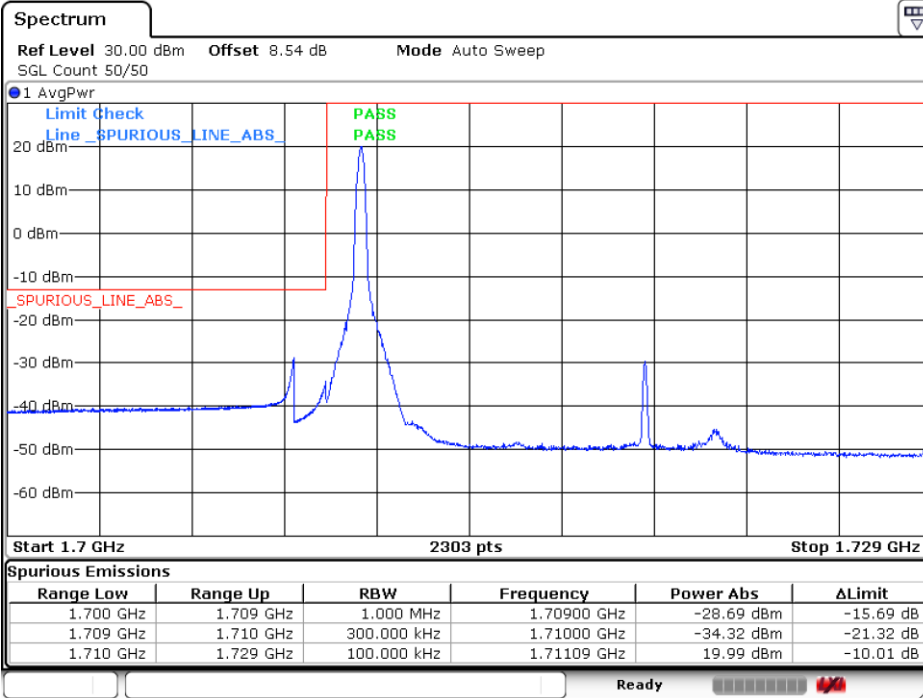
Date: 24.AUG.2020 08:38:31

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

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

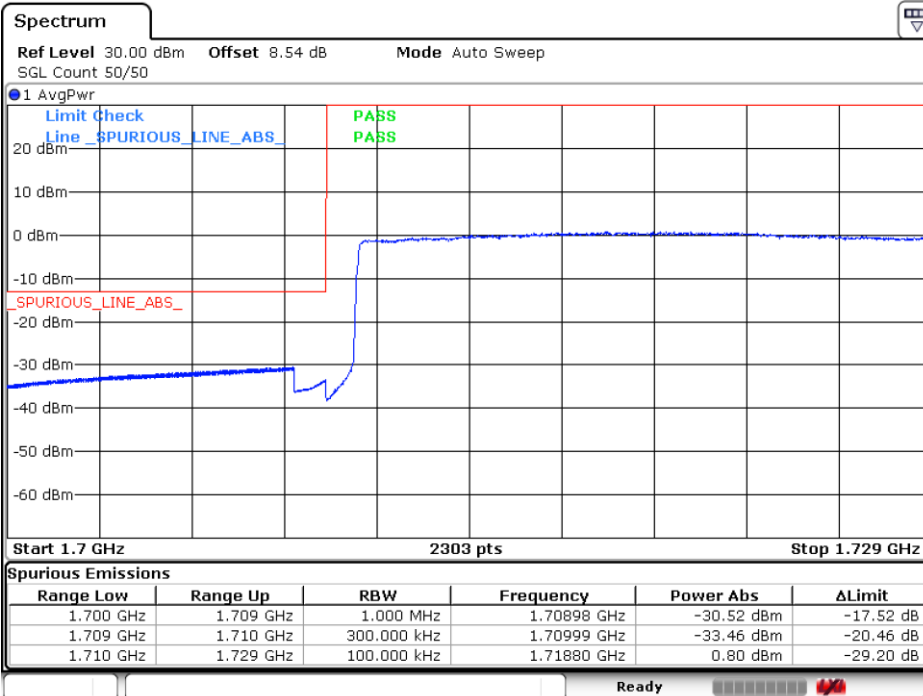
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

CA 2A-4A 100RB+100RB QPSK 18700+20050 1RB#0+1RB#0 Band4



Date: 19.AUG.2020 17:13:20

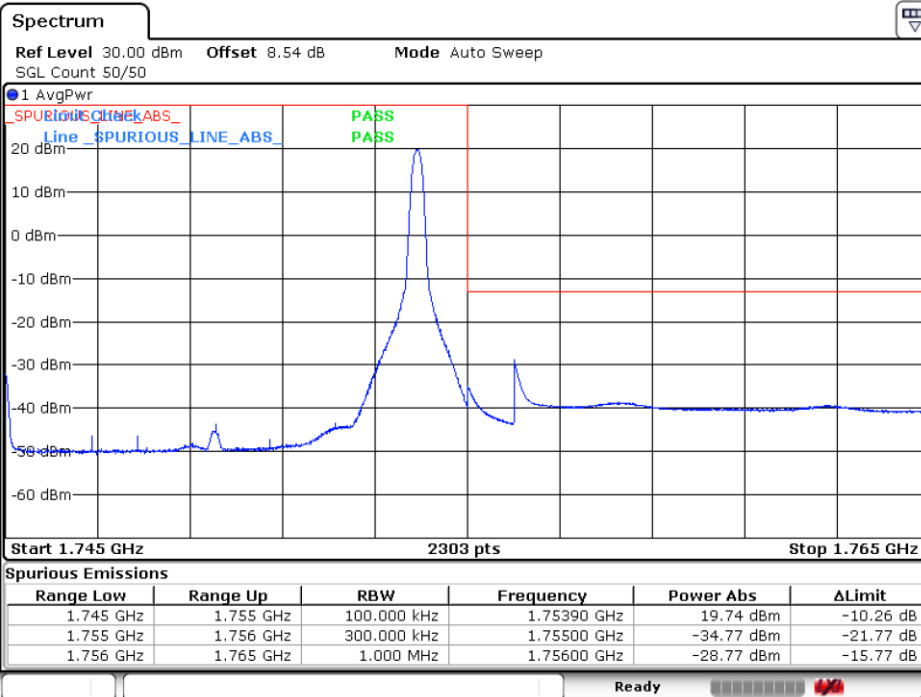
CA 2A-4A 100RB+100RB QPSK 18700+20050 100RB#0+100RB#0 Band4



Date: 19.AUG.2020 17:17:17

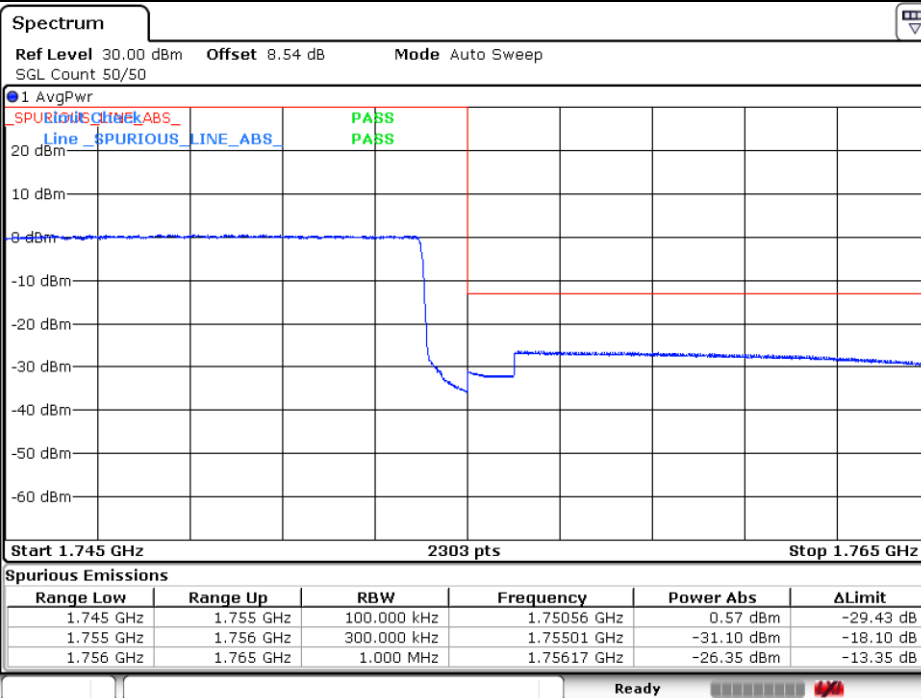


CA 2A-4A 100RB+100RB QPSK 19100+20300 1RB#99+1RB#99 Band4



Date: 19.AUG.2020 17:31:57

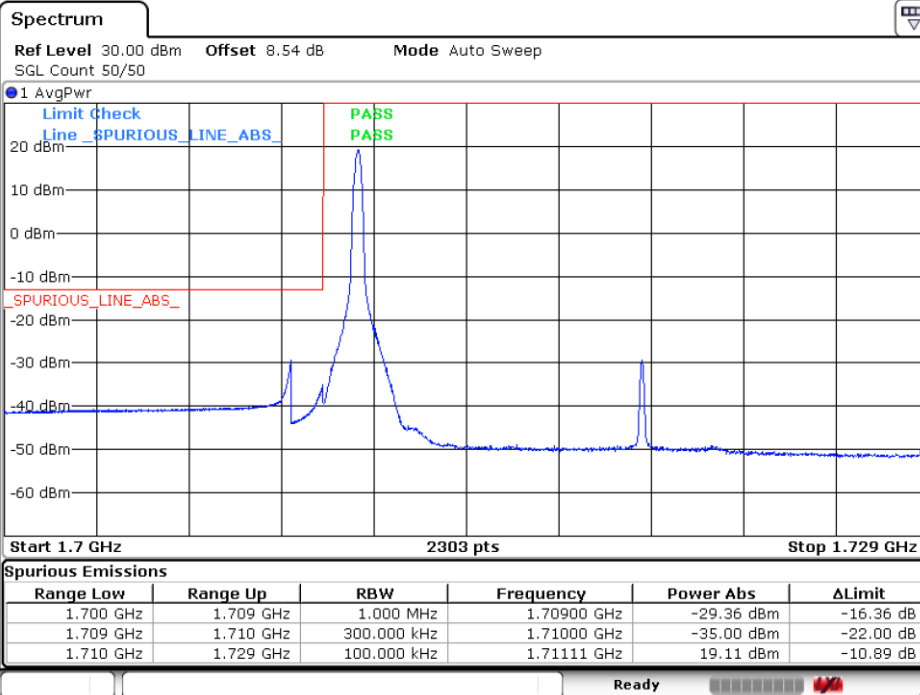
CA 2A-4A 100RB+100RB QPSK 19100+20300 100RB#0+100RB#0 Band4



Date: 19.AUG.2020 17:31:06

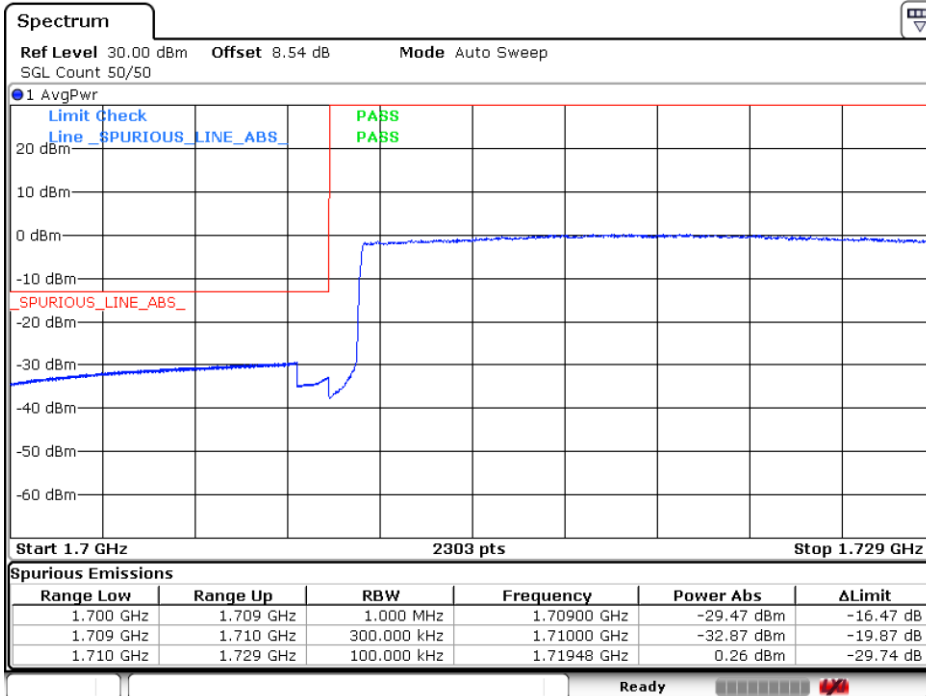


CA 2A-4A 100RB+100RB 16QAM 18700+20050 1RB#0+1RB#0 Band4



Date: 19.AUG.2020 17:14:26

CA 2A-4A 100RB+100RB 16QAM 18700+20050 100RB#0+100RB#0 Band4



Date: 19.AUG.2020 17:15:08

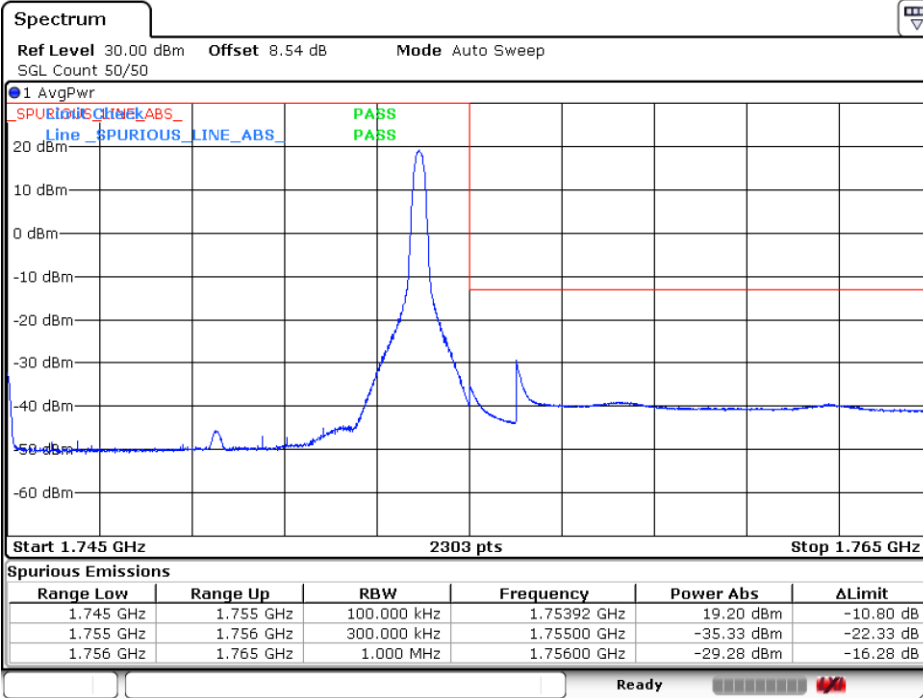


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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

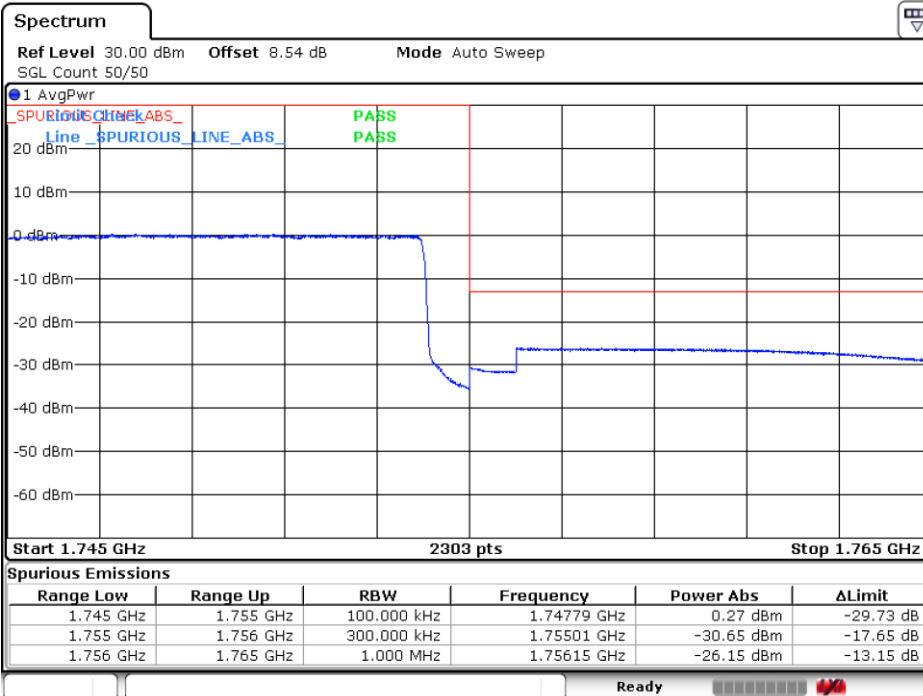
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

CA 2A-4A 100RB+100RB 16QAM 19100+20300 1RB#99+1RB#99 Band4



Date: 19.AUG.2020 17:32:33

CA 2A-4A 100RB+100RB 16QAM 19100+20300 100RB#0+100RB#0 Band4



Date: 19.AUG.2020 17:29:35

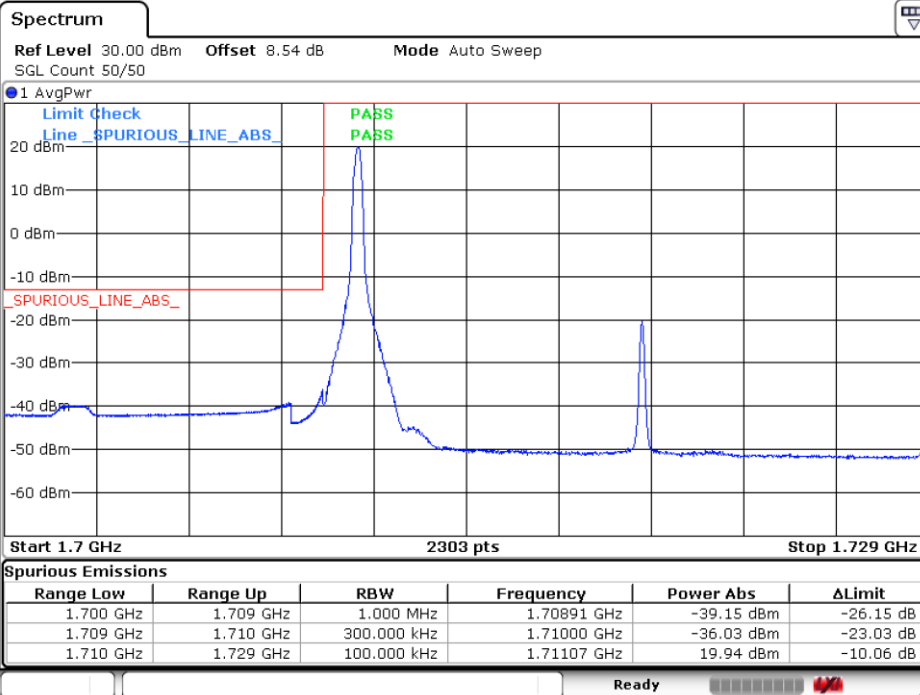


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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

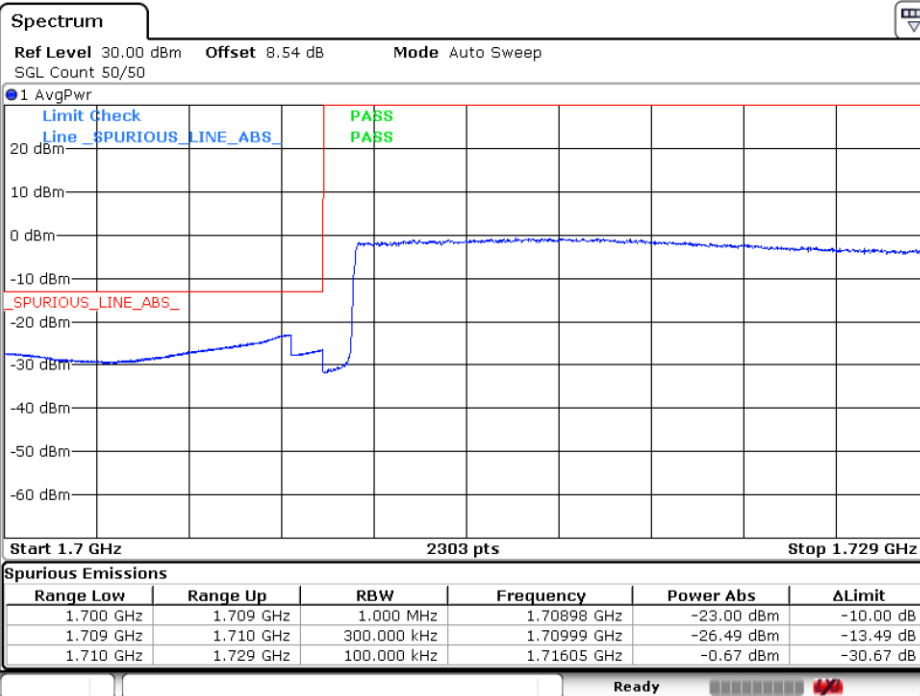
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

CA 2A-4A 100RB+100RB 64QAM 18700+20050 1RB#0+1RB#0 Band4



Date: 23.AUG.2020 21:04:27

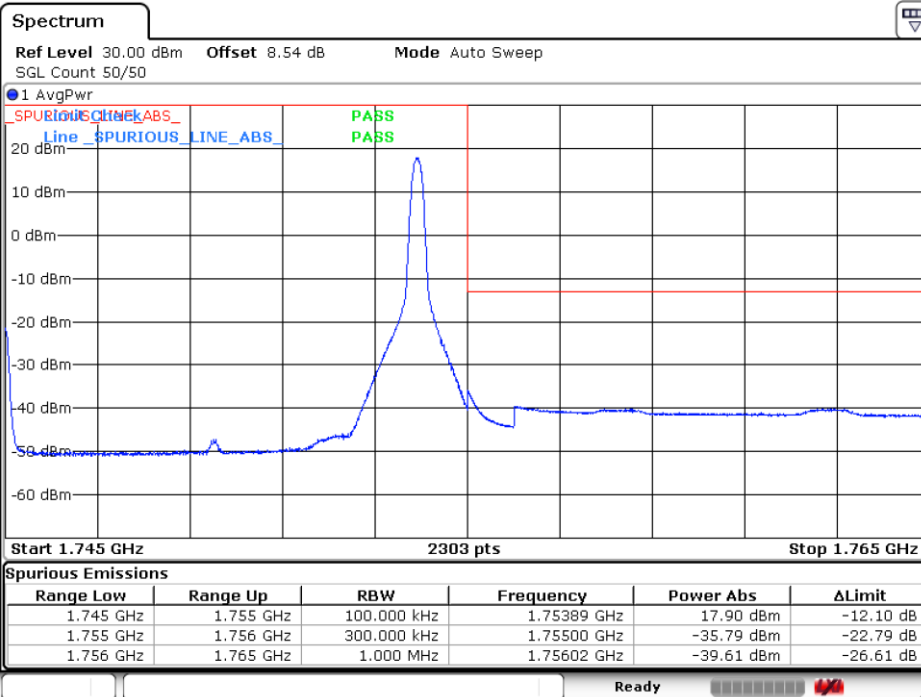
CA 2A-4A 100RB+100RB 64QAM 18700+20050 100RB#0+100RB#0 Band4



Date: 23.AUG.2020 21:05:05

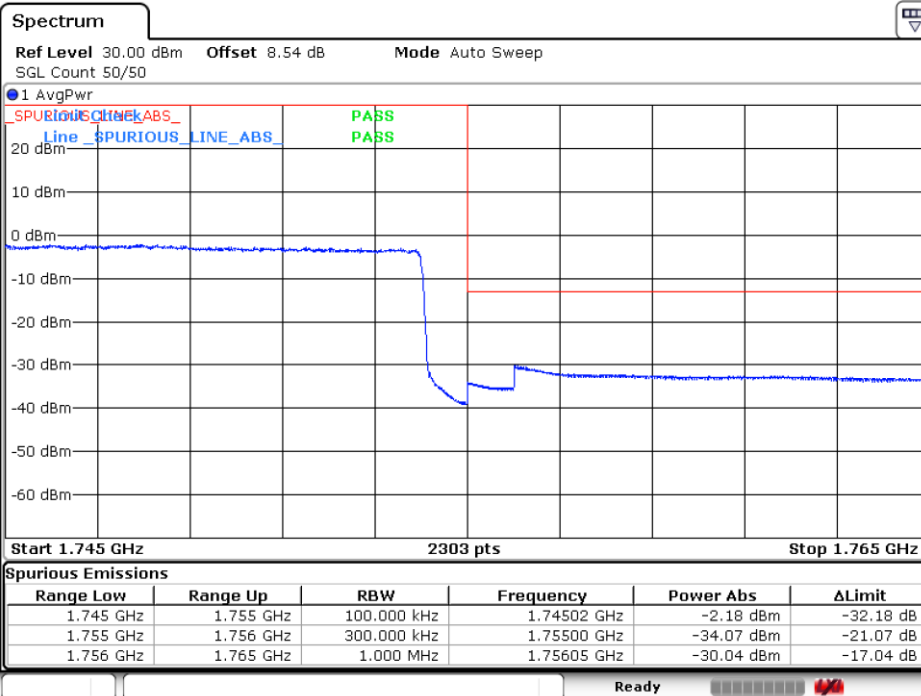


CA 2A-4A 100RB+100RB 64QAM 19100+20300 1RB#99+1RB#99 Band4



Date: 23.AUG.2020 21:07:41

CA 2A-4A 100RB+100RB 64QAM 19100+20300 100RB#0+100RB#0 Band4



Date: 23.AUG.2020 21:06:06



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

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

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

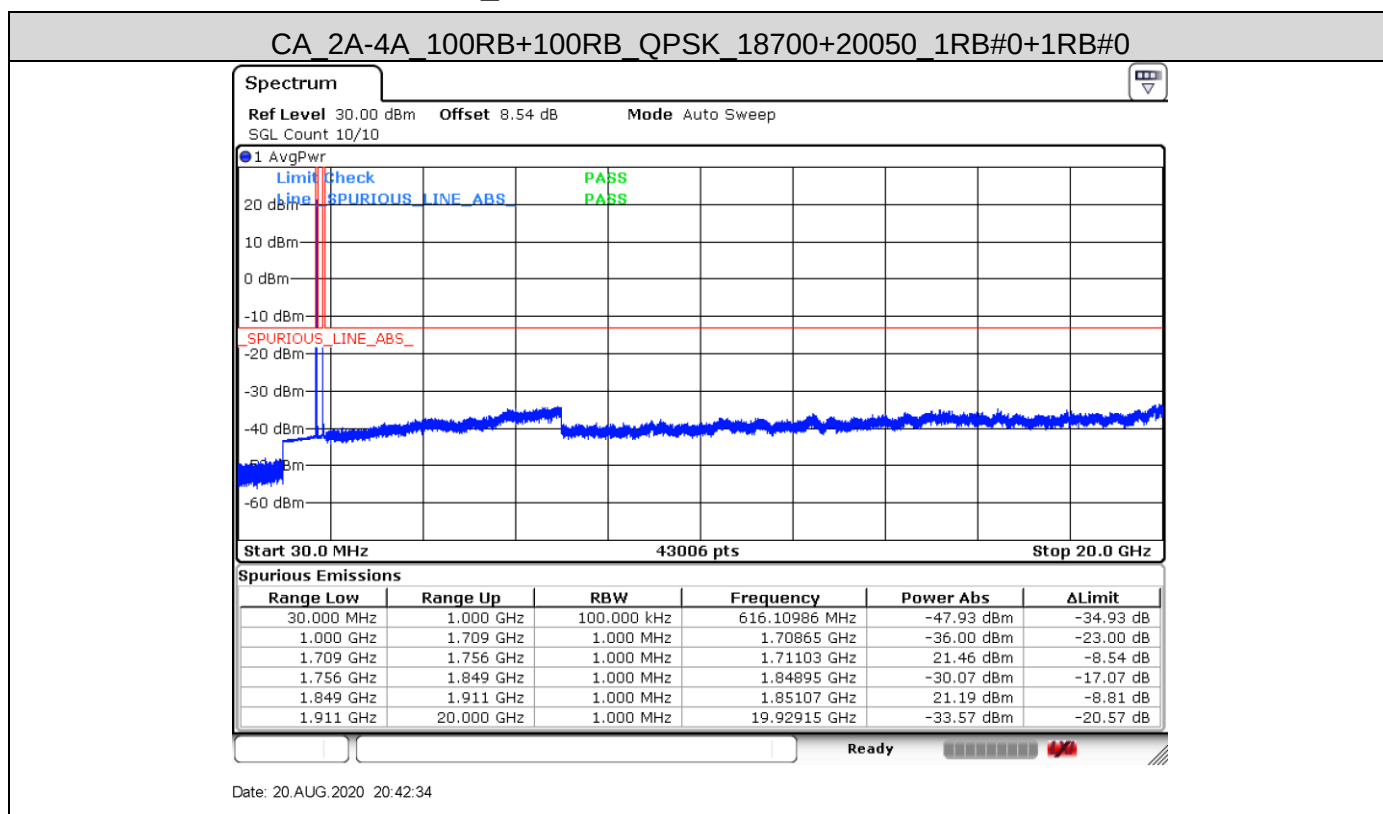
3 Spurious Emission at Antenna Terminal

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

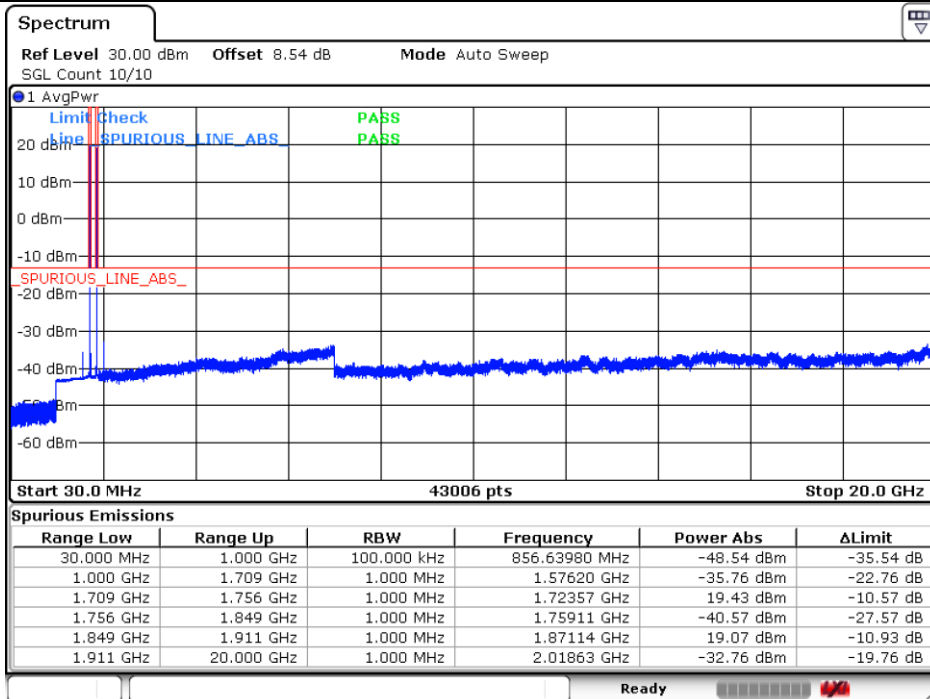
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE Band CA_2A-4A



CA 2A-4A 100RB+100RB QPSK 18900+20175 1RB#0+1RB#0



Date: 20.AUG.2020 20:55:15

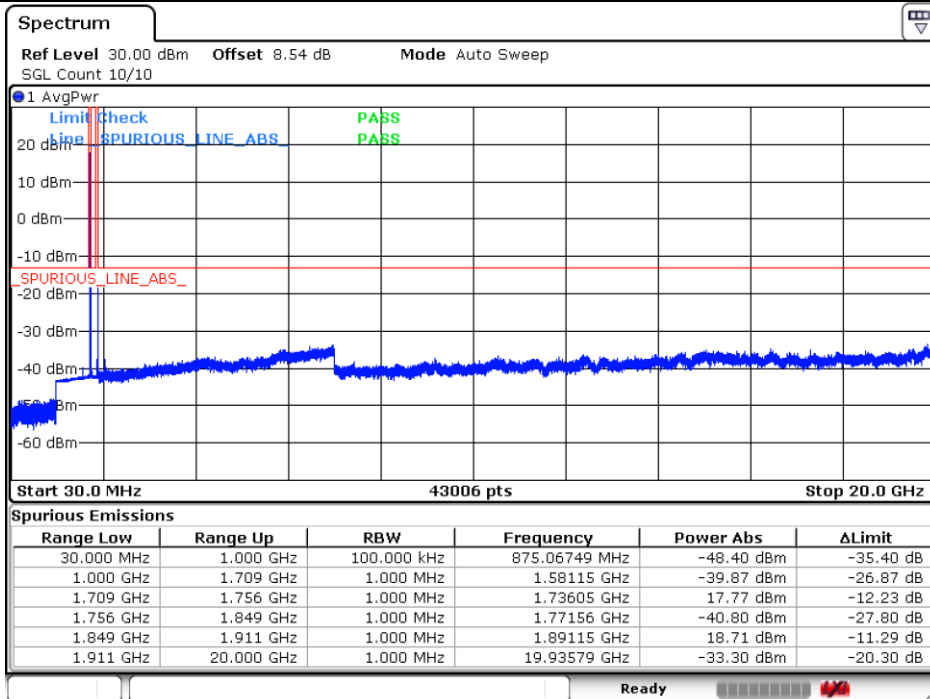
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (ECC Laboratory)

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

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

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

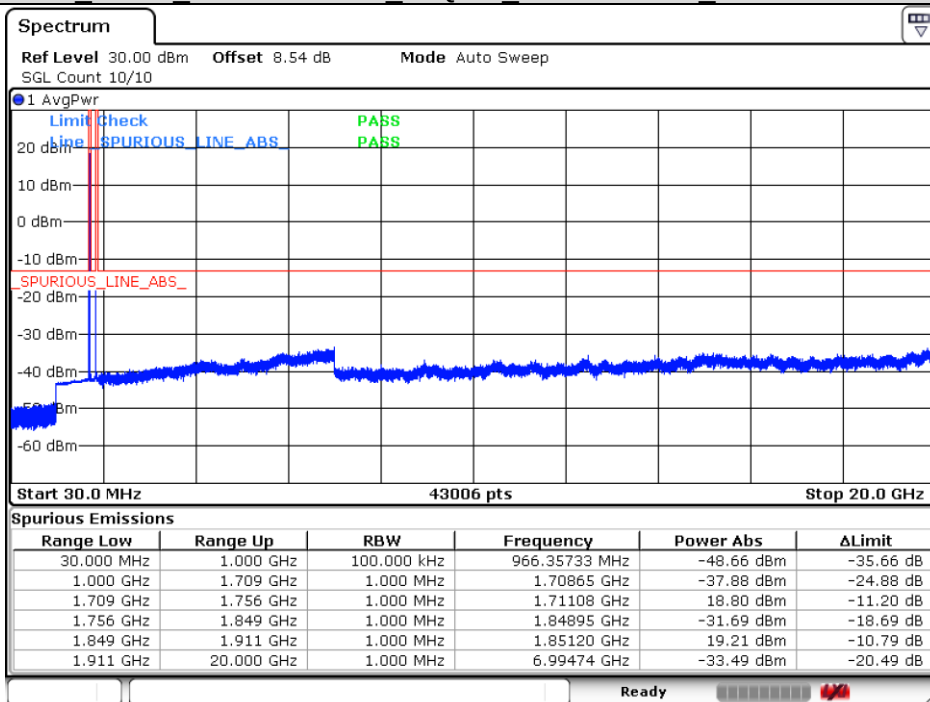
CA 2A-4A 100RB+100RB QPSK 19100+20300 1RB#0+1RB#0



Date: 20.AUG.2020 21:02:48



CA 2A-4A 100RB+100RB 16QAM 18700+20050 1RB#0+1RB#0



Date: 20.AUG.2020 20:52:11

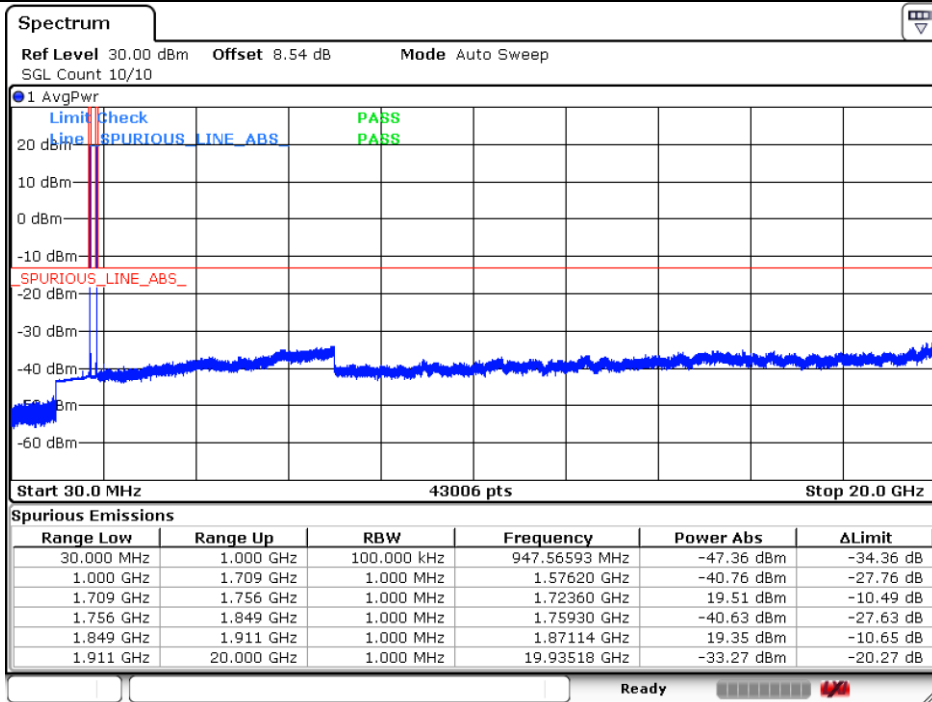
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (ECC Laboratory)

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

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

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

CA 2A-4A 100RB+100RB 16QAM 18900+20175 1RB#0+1RB#0



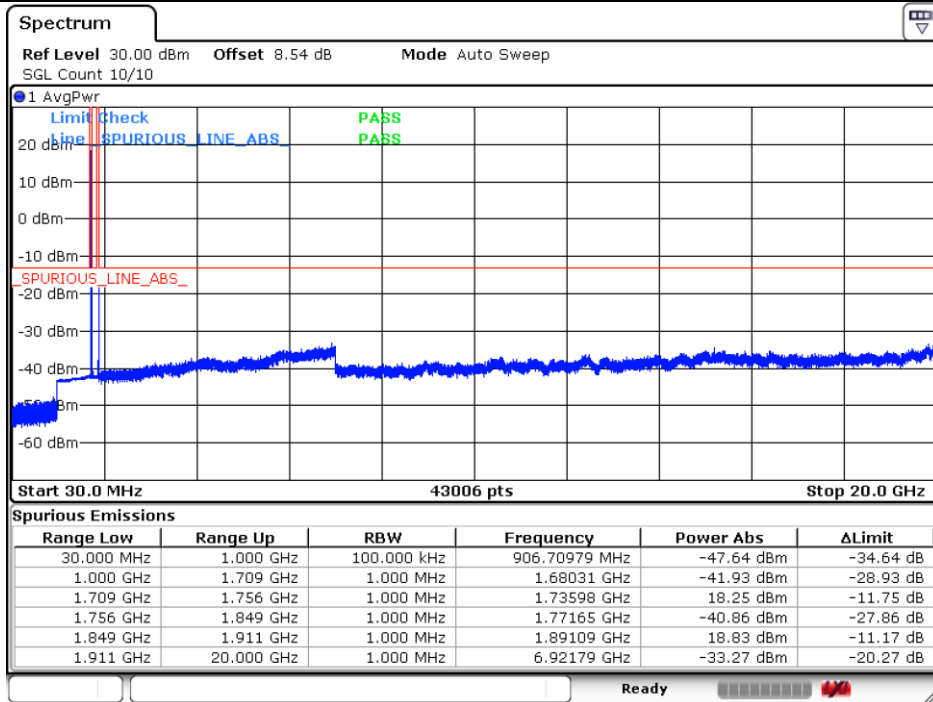
Date: 20.AUG.2020 20:55:48



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

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

CA 2A-4A 100RB+100RB 16QAM 19100+20300 1RB#0+1RB#0



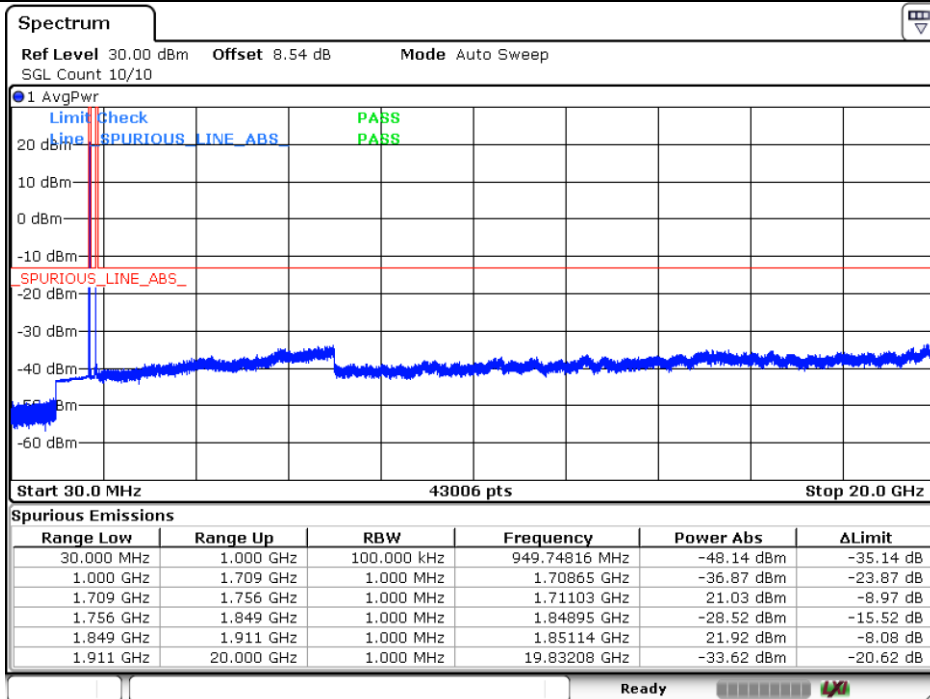
Date: 20.AUG.2020 21:07:16



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

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

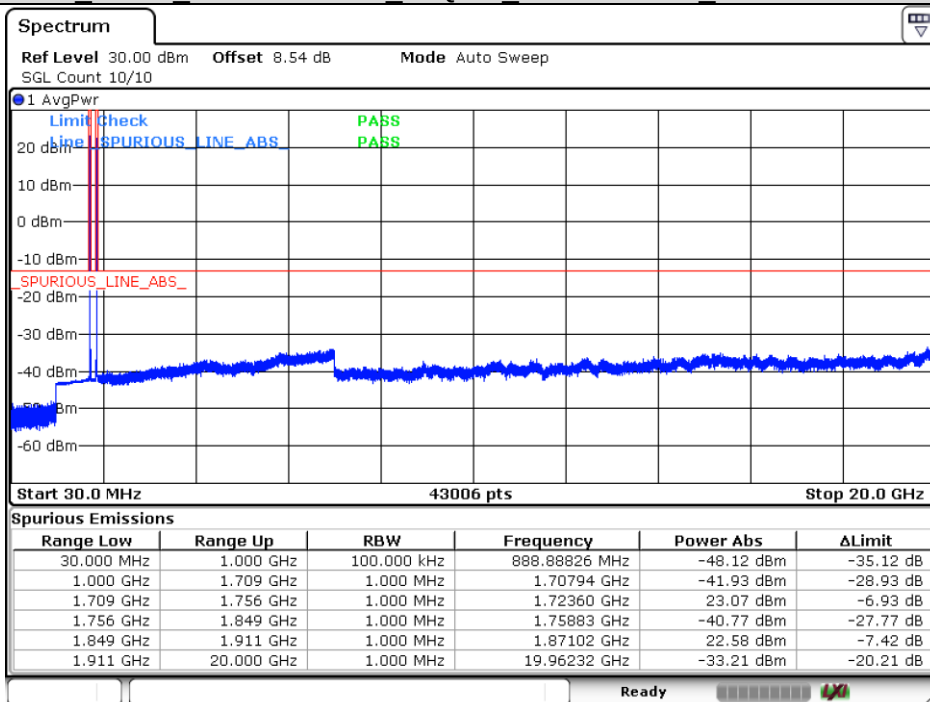
CA 2A-4A 100RB+100RB 64QAM 18700+20050 1RB#0+1RB#0



Date: 24.AUG.2020 08:46:57



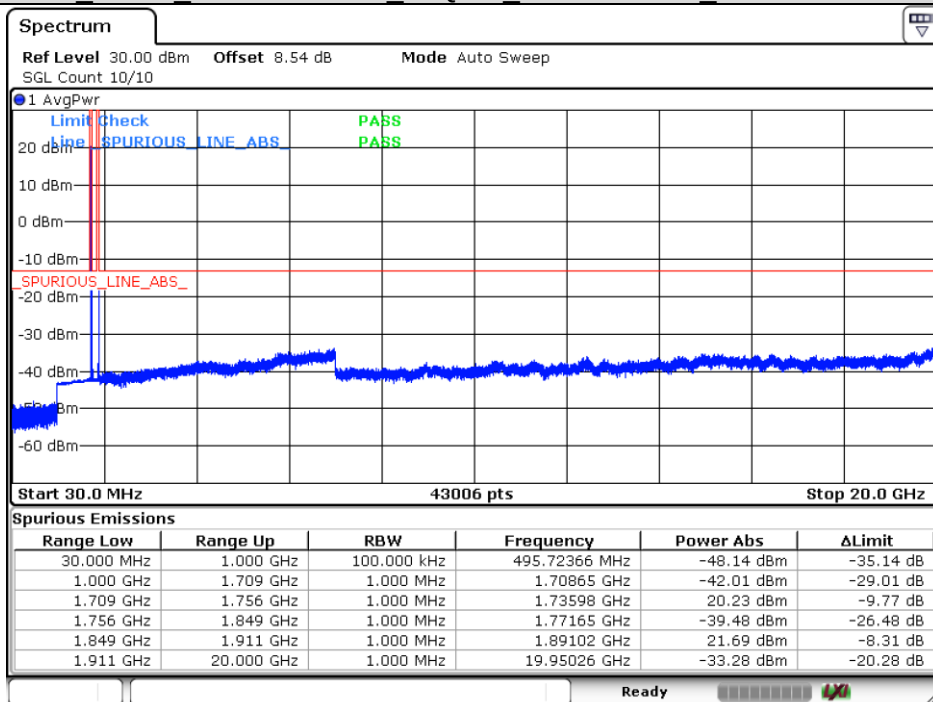
CA 2A-4A 100RB+100RB 64QAM 18900+20175 1RB#0+1RB#0



Date: 24.AUG.2020 08:51:34



CA 2A-4A 100RB+100RB 64QAM 19100+20300 1RB#0+1RB#0



Date: 24.AUG.2020 08:52:32



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

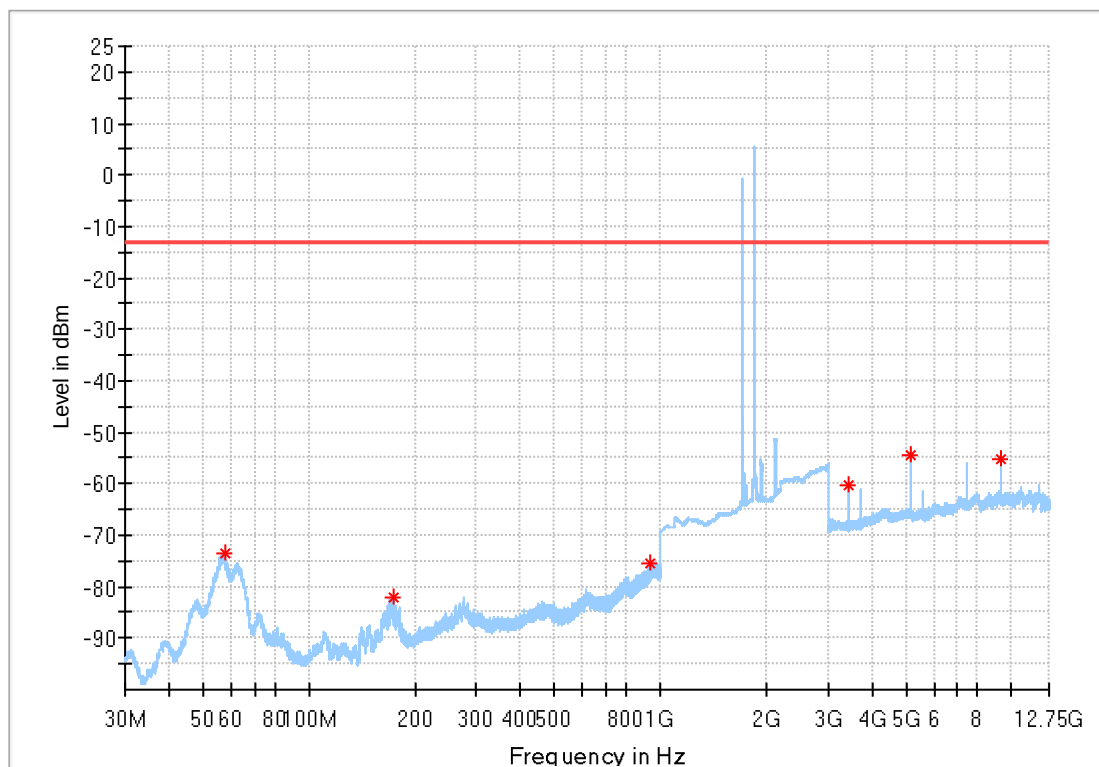
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

4 Field Strength of Spurious Radiation

4.1. Test Mode =LTE/TM1 20&20 MHz_Ant Down

4.1.1. Test Channel = LCH_Horizontal

Full Spectrum



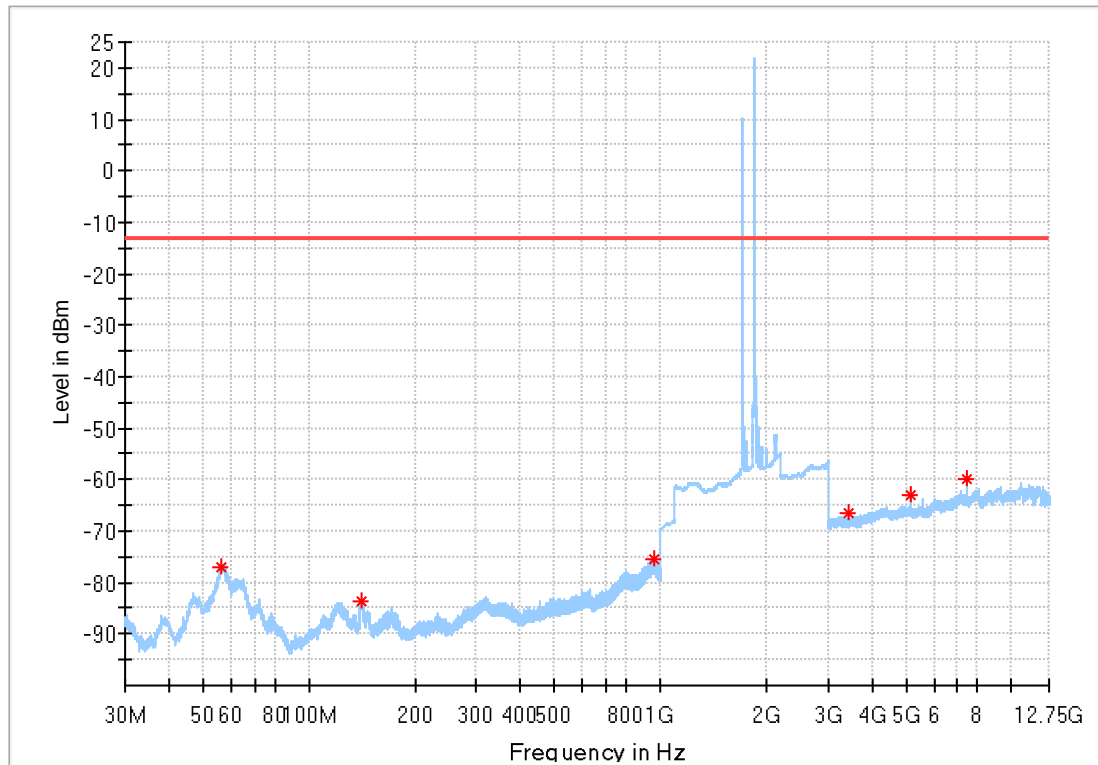
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.500000	-73.62	-13.00	60.62	---	---	135.0	H	1.0	-96.1
174.600000	-81.92	-13.00	68.92	---	---	185.0	H	31.0	-107.2
939.637500	-75.42	-13.00	62.42	---	---	248.0	H	199.0	-92.3
3421.850000	-60.15	-13.00	47.15	---	---	241.0	H	321.0	-105.7
5133.300000	-54.33	-13.00	41.33	---	---	168.0	H	359.0	-101.8
9255.275000	-55.18	-13.00	42.18	---	---	165.0	H	35.0	-97.2



4.1.2. Test Channel = LCH_Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.300000	-76.86	-13.00	63.86	---	---	180.0	V	21.0	-101.4
140.500000	-83.49	-13.00	70.49	---	---	235.0	V	127.0	-109.1
957.329167	-75.36	-13.00	62.36	---	---	185.0	V	208.0	-92.3
3421.850000	-66.52	-13.00	53.52	---	---	101.0	V	345.0	-105.5
5132.975000	-63.19	-13.00	50.19	---	---	149.0	V	359.0	-101.8
7404.075000	-59.79	-13.00	46.79	---	---	285.0	V	345.0	-99.6

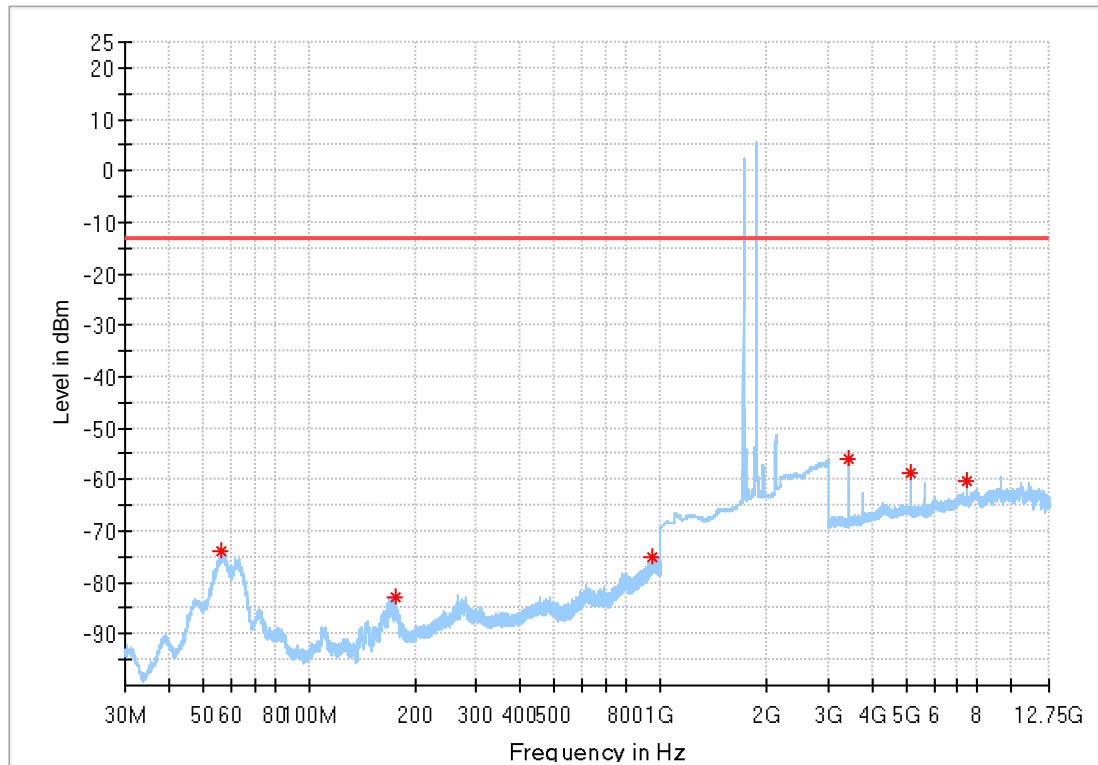


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

4.1.3. Test Channel = MCH_Horizontal

Full Spectrum



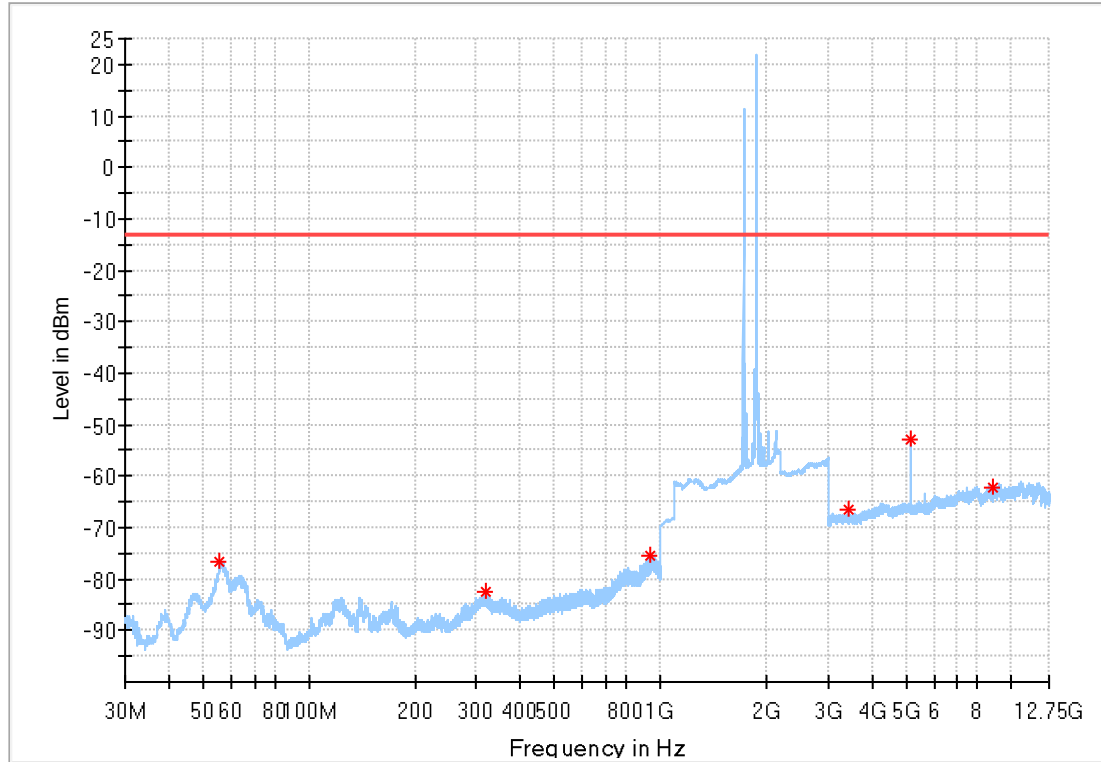
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.650000	-73.80	-13.00	60.80	---	---	188.0	H	1.0	-96.6
176.800000	-82.84	-13.00	69.84	---	---	133.0	H	223.0	-107.2
949.950000	-75.13	-13.00	62.13	---	---	157.0	H	147.0	-91.9
3447.200000	-56.13	-13.00	43.13	---	---	272.0	H	44.0	-105.5
5170.675000	-58.76	-13.00	45.76	---	---	230.0	H	358.0	-101.8
7484.350000	-60.34	-13.00	47.34	---	---	109.0	H	282.0	-99.4



4.1.4. Test Channel = MCH_Vertical

Full Spectrum



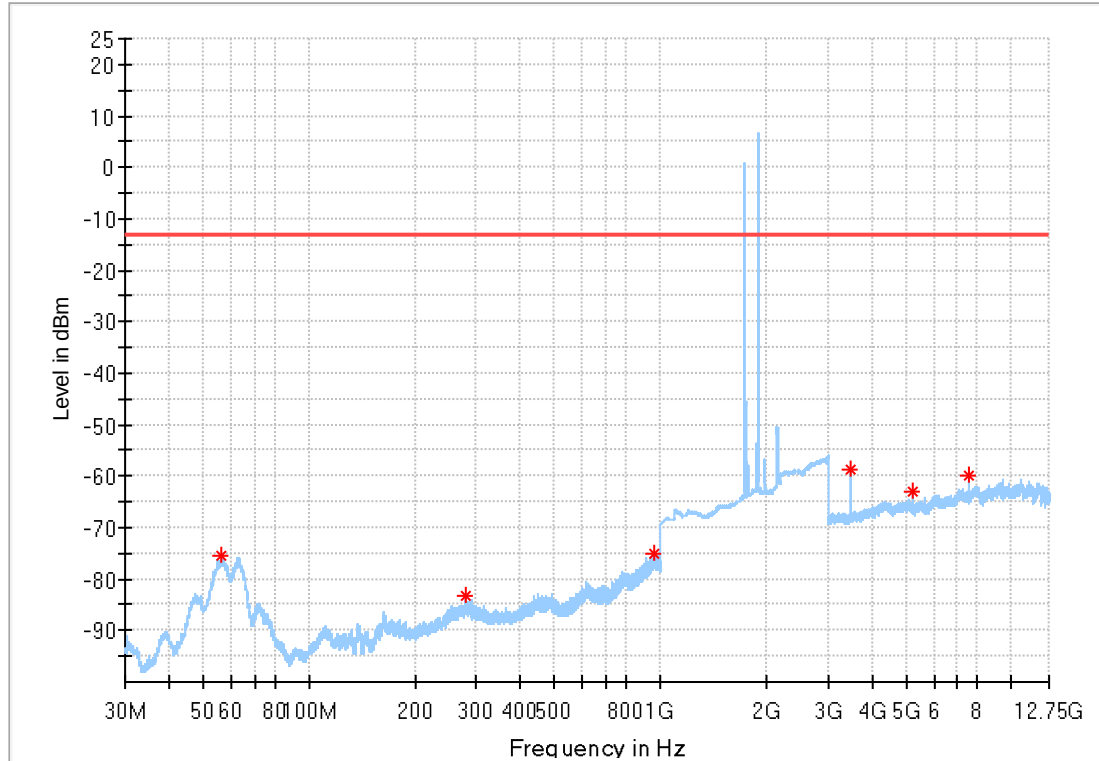
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.800000	-76.79	-13.00	63.79	---	---	290.0	V	1.0	-101.7
319.350000	-82.47	-13.00	69.47	---	---	117.0	V	234.0	-102.0
932.441667	-75.37	-13.00	62.37	---	---	167.0	V	59.0	-92.8
3447.200000	-66.36	-13.00	53.36	---	---	206.0	V	11.0	-105.4
5170.675000	-52.85	-13.00	39.85	---	---	239.0	V	1.0	-101.9
8883.475000	-62.36	-13.00	49.36	---	---	174.0	V	0.0	-97.5



4.1.5. Test Channel = HCH_Horizontal

Full Spectrum



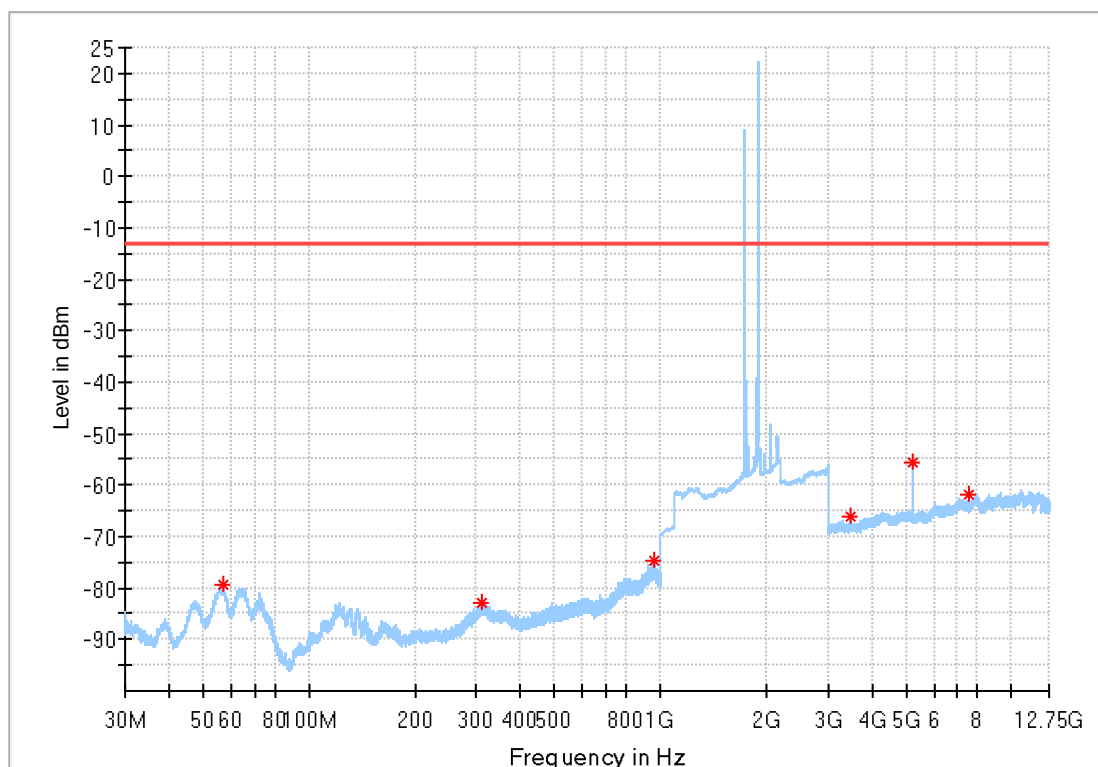
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.250000	-75.35	-13.00	62.35	---	---	282.0	H	32.0	-96.9
279.550000	-83.44	-13.00	70.44	---	---	188.0	H	178.0	-102.8
957.512500	-75.06	-13.00	62.06	---	---	249.0	H	32.0	-91.8
3472.225000	-58.54	-13.00	45.54	---	---	156.0	H	319.0	-105.4
5207.725000	-63.20	-13.00	50.20	---	---	251.0	H	359.0	-101.9
7564.300000	-59.81	-13.00	46.81	---	---	226.0	H	282.0	-99.3



4.1.6. Test Channel = HCH_Vertical

Full Spectrum



Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.150000	-79.49	-13.00	66.49	---	---	236.0	V	273.0	-101.3
309.450000	-82.93	-13.00	69.93	---	---	262.0	V	254.0	-102.1
956.275000	-74.81	-13.00	61.81	---	---	137.0	V	338.0	-92.3
3472.225000	-66.03	-13.00	53.03	---	---	235.0	V	345.0	-105.4
5208.375000	-55.60	-13.00	42.60	---	---	205.0	V	0.0	-101.9
7564.300000	-61.73	-13.00	48.73	---	---	108.0	V	345.0	-99.2

Remark:

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

The End

