



Appendix B

E-UTRA Band CA_7C



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

Page

1	EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	4
1.1	MAX POWER TEST RESULT FOR LTE BAND CA_7C(MAIN)	4
1.2	MAX POWER TEST RESULT FOR LTE BAND CA_7C(DIV)	7
2	PEAK-TO-AVERAGE RATIO	10
2.1	FOR LTE.....	10
2.1.1	Test Band = LTE Band CA_7C.....	10
3	MODULATION CHARACTERISTICS	15
3.1	FOR LTE.....	15
3.1.1	Test Band = LTE Band CA_7C.....	15
4	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	18
4.1	FOR LTE.....	20
4.1.1	Test Band = LTE Band CA_7C.....	20
5	BAND EDGES COMPLIANCE	52
5.1	FOR LTE.....	52
5.1.1	Test Band = LTE Band CA_7C.....	52
6	SPURIOUS EMISSION AT ANTENNA TERMINAL	65
6.1	FOR LTE.....	65
6.1.1	Test Band = LTE Band CA_7C.....	65
7	FIELD STRENGTH OF SPURIOUS RADIATION.....	80
7.1	Test Band = LTE Band CA_7C (MAIN).....	80
7.1.1	TEST CHANNEL = LCH	80
7.1.2	TEST CHANNEL = MCH	80
7.1.3	TEST CHANNEL = HCH.....	81
7.2	Test Band = LTE Band CA_7C (DIV).....	81
7.1.1	TEST CHANNEL = LCH	81
7.1.4	TEST CHANNEL = MCH	82
7.1.5	TEST CHANNEL = HCH.....	82





8	FREQUENCY STABILITY.....	83
8.1	FREQUENCY ERROR VS. VOLTAGE	83
8.2	FREQUENCY ERROR VS. TEMPERATURE.....	84





1 Effective (Isotropic) Radiated Power Output Data

1.1 Max Power Test Result for LTE Band CA_7C(MAIN)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	QPSK	23.39	23.09	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	22.77	22.47	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	22.98	22.68	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	23.41	23.11	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	22.88	22.58	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	23.14	22.84	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	23.15	22.85	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	23.24	22.94	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	23.03	22.73	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	23.18	22.88	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	23.25	22.95	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	22.86	22.56	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	22.97	22.67	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	22.99	22.69	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	22.97	22.67	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	22.88	22.58	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	23.25	22.95	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	23.46	23.16	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	23.07	22.77	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	22.98	22.68	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	23.09	22.79	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	23.50	23.2	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	22.86	22.56	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	23.32	23.02	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	23.24	22.94	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	23.39	23.09	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	22.91	22.61	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	23.33	23.03	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	22.85	22.55	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	23.21	22.91	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	23.16	22.86	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	23.34	23.04	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	23.47	23.17	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	22.98	22.68	33.00	PASS



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_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	23.14	22.84	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	23.32	23.02	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	16QAM	22.09	21.79	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	22.77	22.47	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	22.20	21.9	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	22.10	21.8	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	22.17	21.87	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	22.73	22.43	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	21.99	21.69	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	22.72	22.42	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	21.96	21.66	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	22.57	22.27	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	22.43	22.13	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	22.27	21.97	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	22.28	21.98	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	22.48	22.18	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	22.48	22.18	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	22.16	21.86	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	22.51	22.21	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	21.87	21.57	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	23.01	22.71	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	22.03	21.73	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	22.65	22.35	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	22.05	21.75	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	22.30	22	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	22.68	22.38	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	22.55	22.25	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	22.24	21.94	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	22.67	22.37	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	22.30	22	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	22.59	22.29	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	22.33	22.03	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	21.85	21.55	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	22.52	22.22	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	21.37	21.07	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	21.21	20.91	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	21.50	21.2	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	21.15	20.85	33.00	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) 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_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	21.16	20.86	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	20.69	20.39	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	21.42	21.12	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	20.85	20.55	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	21.36	21.06	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	21.34	21.04	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	21.10	20.8	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	21.31	21.01	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	21.70	21.4	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	21.54	21.24	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	21.45	21.15	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	21.69	21.39	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	21.53	21.23	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	21.23	20.93	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	21.15	20.85	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	21.35	21.05	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	21.11	20.81	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	21.36	21.06	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	21.14	20.84	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	21.22	20.92	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	20.89	20.59	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	21.72	21.42	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	21.26	20.96	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	21.45	21.15	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	21.11	20.81	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	21.38	21.08	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	21.26	20.96	33.00	PASS





1.2 Max Power Test Result for LTE Band CA_7C(DIV)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	QPSK	19.39	20.69	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	19.60	20.9	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	19.04	20.34	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	19.64	20.94	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	19.58	20.88	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	19.06	20.36	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	19.17	20.47	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	19.59	20.89	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	18.92	20.22	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	19.37	20.67	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	18.84	20.14	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	19.59	20.89	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	19.49	20.79	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	19.22	20.52	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	19.05	20.35	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	19.39	20.69	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	18.94	20.24	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	19.39	20.69	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	19.25	20.55	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	19.41	20.71	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	19.26	20.56	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	19.65	20.95	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	19.16	20.46	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	19.40	20.7	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	18.96	20.26	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	18.81	20.11	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	19.29	20.59	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	19.16	20.46	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	18.92	20.22	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	19.56	20.86	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	19.30	20.6	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	18.81	20.11	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	19.55	20.85	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	18.25	19.55	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	17.70	19	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	18.00	19.3	33.00	PASS



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_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	16QAM	18.57	19.87	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	17.85	19.15	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	18.86	20.16	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	18.34	19.64	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	18.06	19.36	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	18.65	19.95	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	18.53	19.83	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	18.12	19.42	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	18.38	19.68	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	18.20	19.5	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	18.04	19.34	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	18.42	19.72	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	18.32	19.62	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	17.69	18.99	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	18.59	19.89	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	18.90	20.2	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	18.57	19.87	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	18.43	19.73	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	18.55	19.85	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	18.68	19.98	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	18.15	19.45	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	18.03	19.33	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	18.58	19.88	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	18.19	19.49	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	18.55	19.85	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	17.99	19.29	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	18.64	19.94	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	18.27	19.57	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	18.28	19.58	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	18.49	19.79	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	16.70	18	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	17.27	18.57	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	17.31	18.61	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	17.11	18.41	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	17.12	18.42	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	17.23	18.53	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	17.75	19.05	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	17.40	18.7	33.00	PASS





CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	17.05	18.35	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	17.28	18.58	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	17.78	19.08	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	17.25	18.55	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	17.23	18.53	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	17.52	18.82	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	17.51	18.81	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	17.13	18.43	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	17.15	18.45	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	17.13	18.43	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	17.31	18.61	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	17.07	18.37	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	17.27	18.57	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	17.33	18.63	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	17.56	18.86	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	17.72	19.02	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	17.46	18.76	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	17.33	18.63	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	17.19	18.49	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	17.23	18.53	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	17.42	18.72	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	17.27	18.57	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	17.16	18.46	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	17.49	18.79	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	16.80	18.1	33.00	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 (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



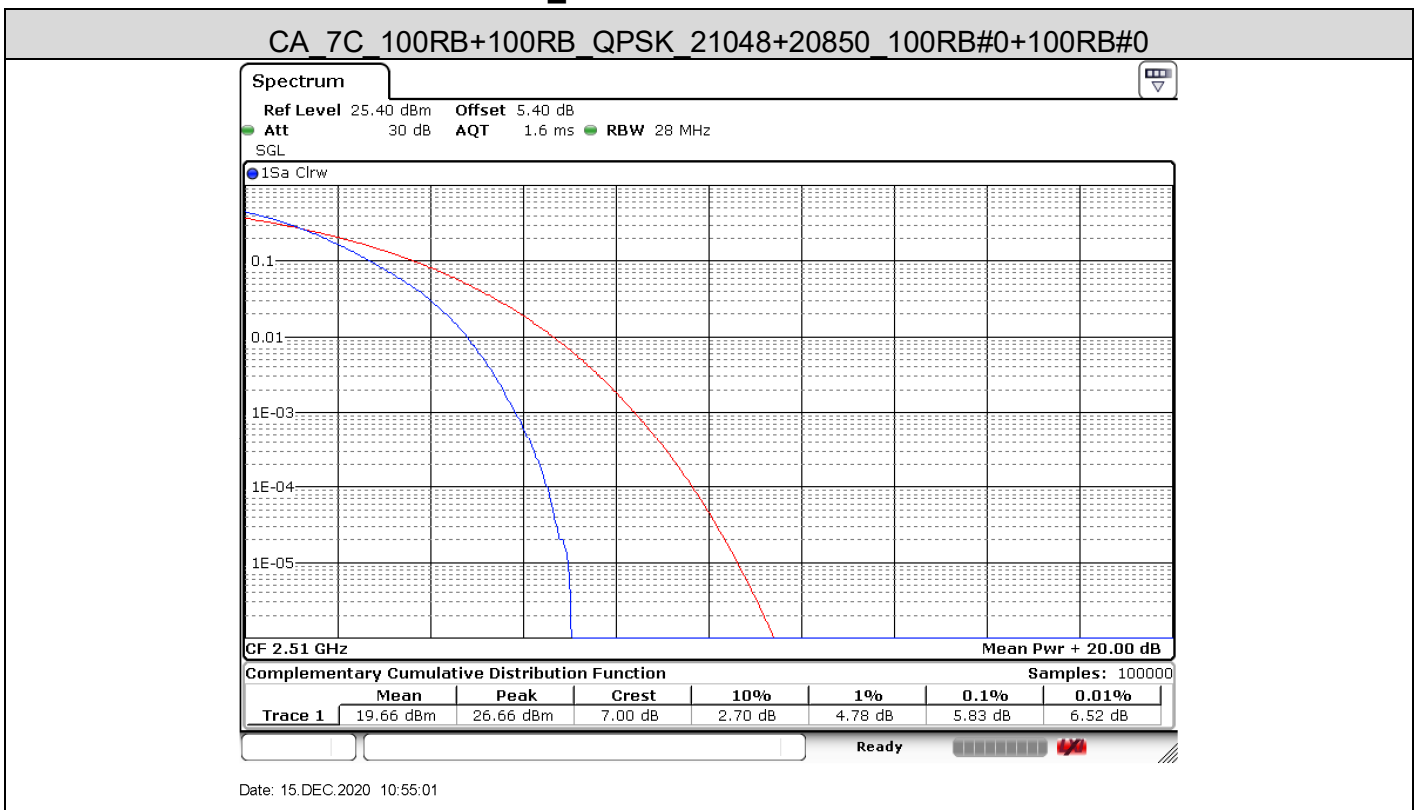
2 Peak-to-Average Ratio

Part I - Test Results

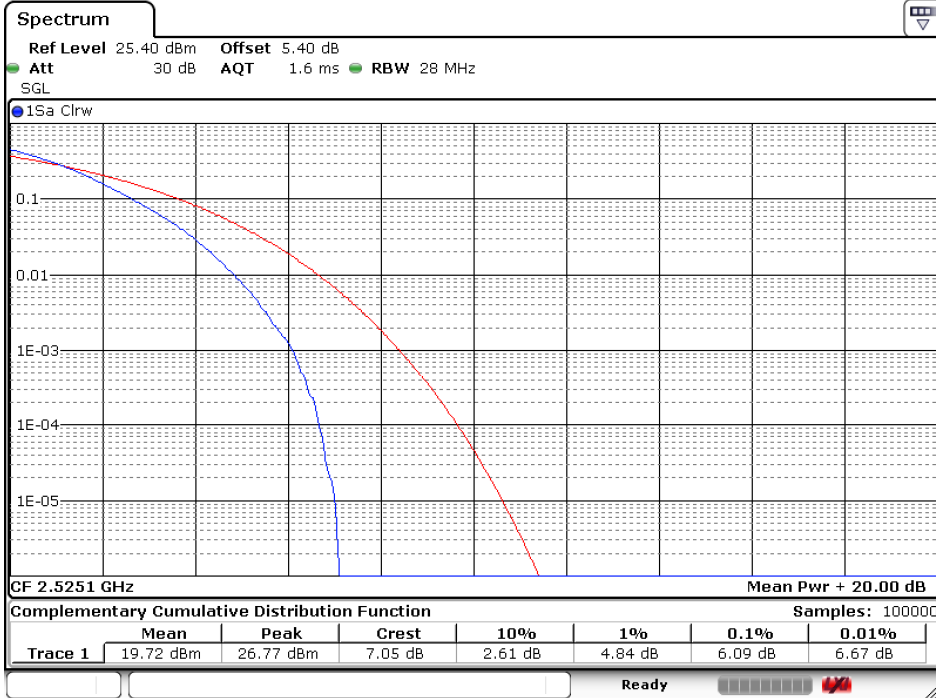
Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_7C	QPSK	100RB+100RB	21048+20850	100RB#0	100RB#0	5.83	13.00	PASS
CA_7C	QPSK	100RB+100RB	21199+21001	100RB#0	100RB#0	6.09	13.00	PASS
CA_7C	QPSK	100RB+100RB	21350+21152	100RB#0	100RB#0	6.00	13.00	PASS
CA_7C	16QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.55	13.00	PASS
CA_7C	16QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.61	13.00	PASS
CA_7C	16QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.70	13.00	PASS
CA_7C	64QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.72	13.00	PASS
CA_7C	64QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.67	13.00	PASS
CA_7C	64QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.84	13.00	PASS

2.1 For LTE

2.1.1 Test Band = LTE Band CA_7C

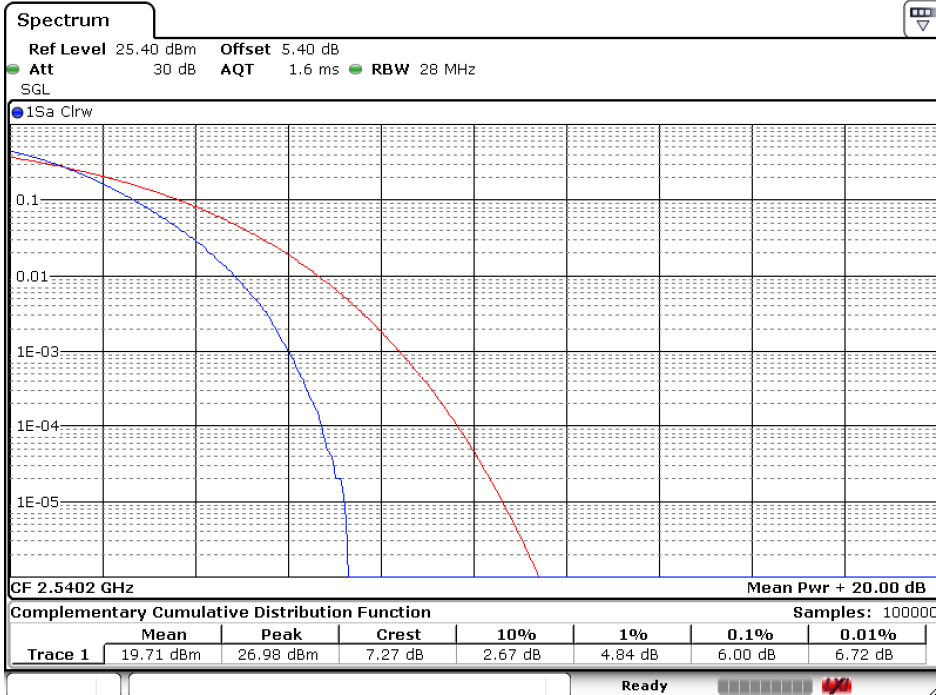


CA 7C 100RB+100RB QPSK 21199+21001 100RB#0+100RB#0



Date: 15.DEC.2020 10:58:12

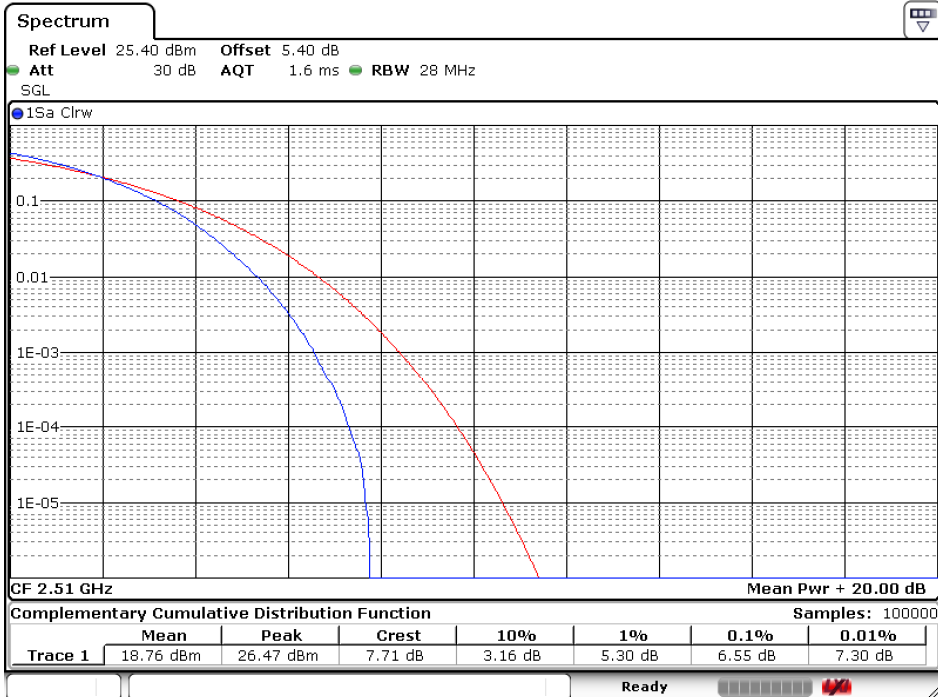
CA 7C 100RB+100RB QPSK 21350+21152 100RB#0+100RB#0



Date: 15.DEC.2020 11:01:17

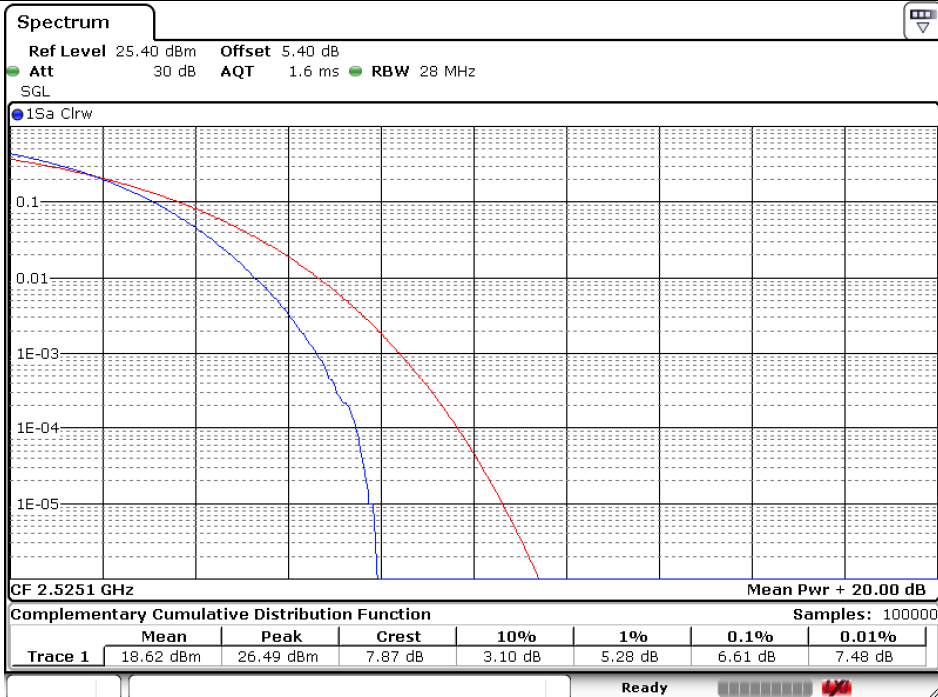


CA 7C 100RB+100RB 16QAM 21048+20850 100RB#0+100RB#0



Date: 15.DEC.2020 10:55:21

CA 7C 100RB+100RB 16QAM 21199+21001 100RB#0+100RB#0



Date: 15.DEC.2020 10:57:59

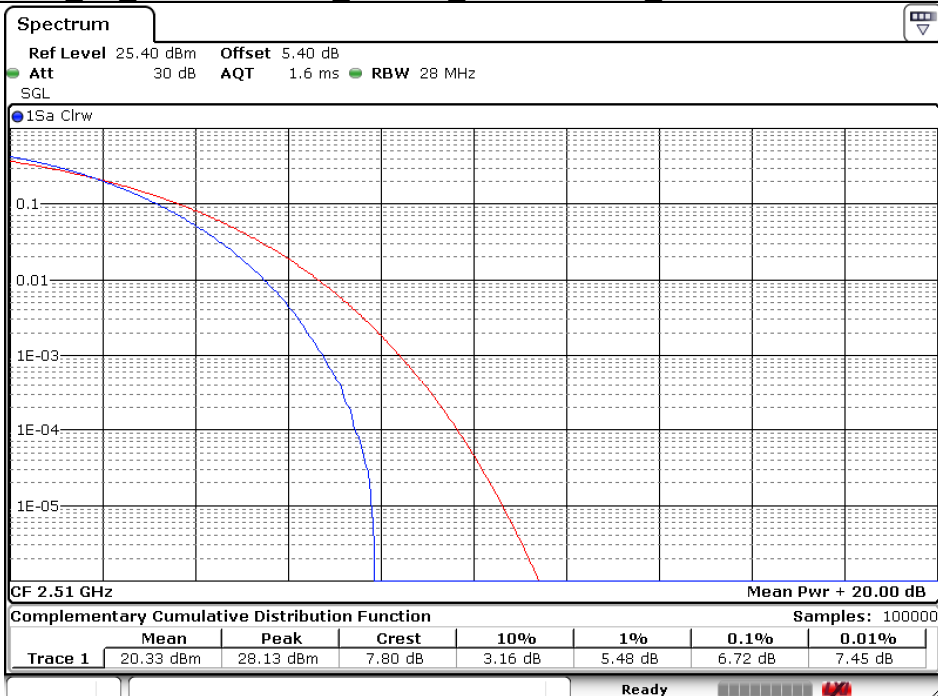


CA 7C 100RB+100RB 16QAM 21350+21152 100RB#0+100RB#0



Date: 15.DEC.2020 11:01:31

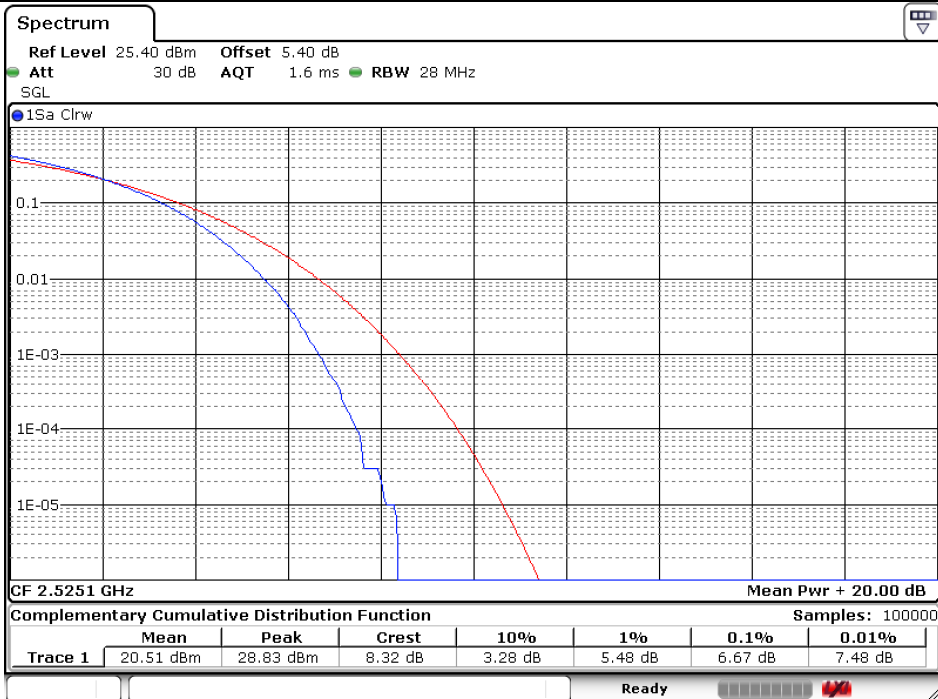
CA 7C 100RB+100RB 64QAM 21048+20850 100RB#0+100RB#0



Date: 15.DEC.2020 10:55:31

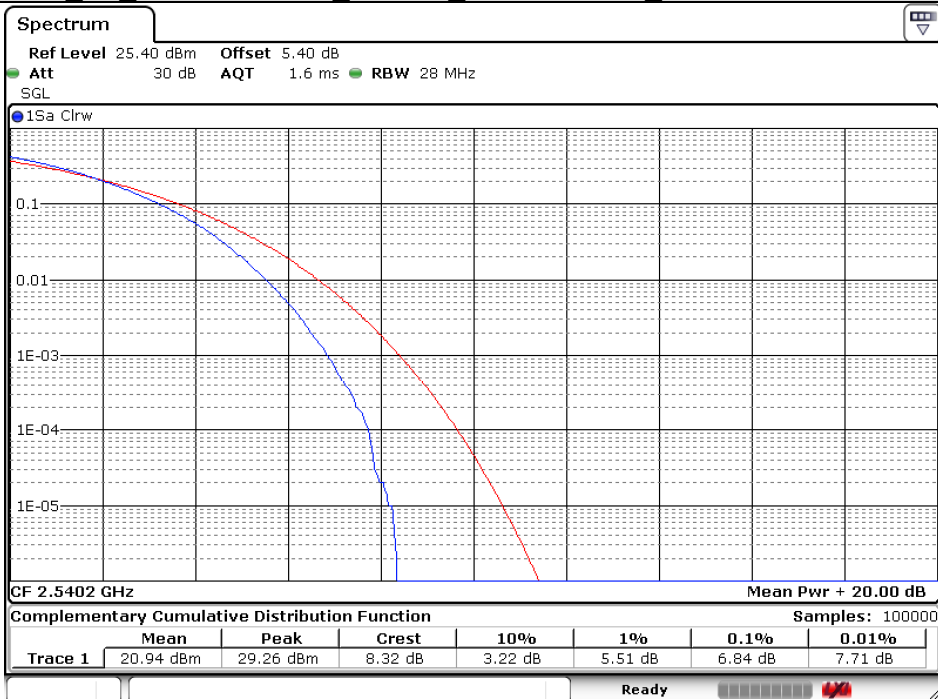


CA 7C 100RB+100RB 64QAM 21199+21001 100RB#0+100RB#0



Date: 15.DEC.2020 10:57:45

CA 7C 100RB+100RB 64QAM 21350+21152 100RB#0+100RB#0



Date: 15.DEC.2020 11:01:42



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

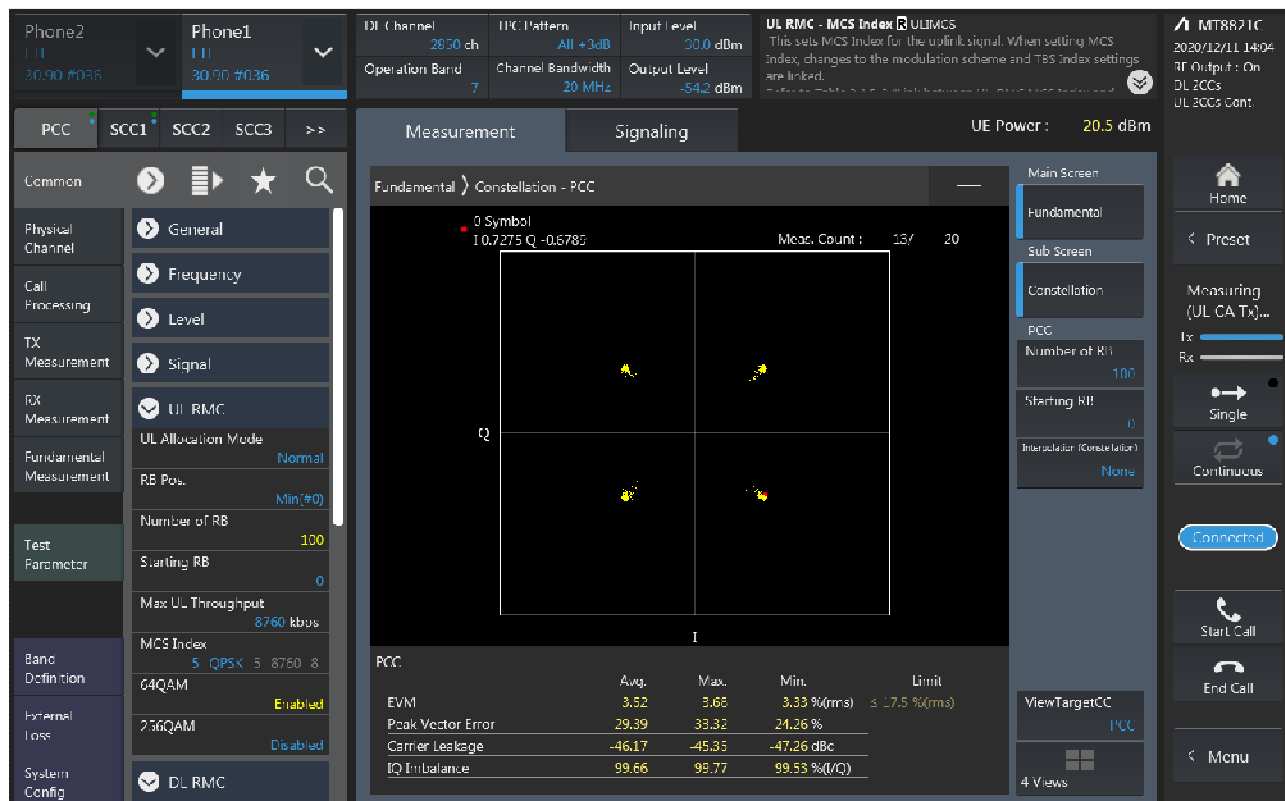
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_7C

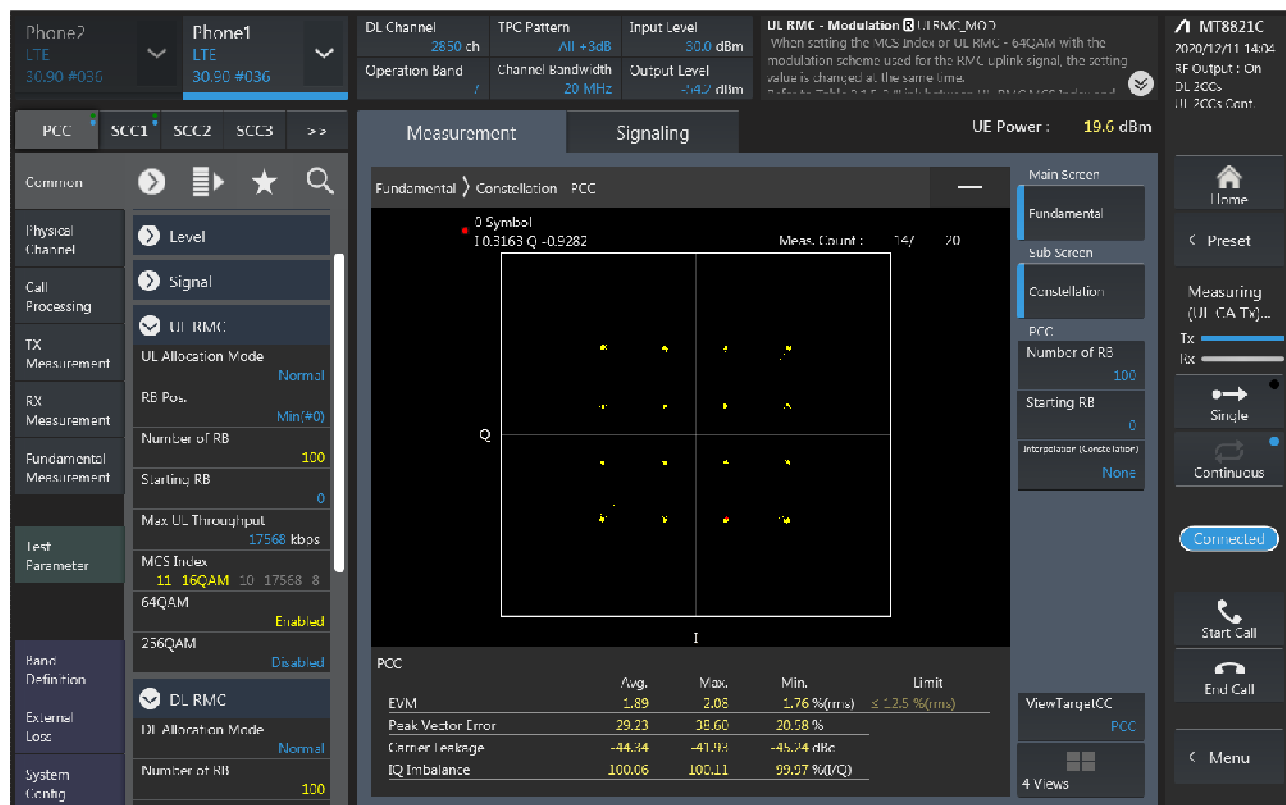
3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

3.1.1.1.1 Test Channel = 20850+20994



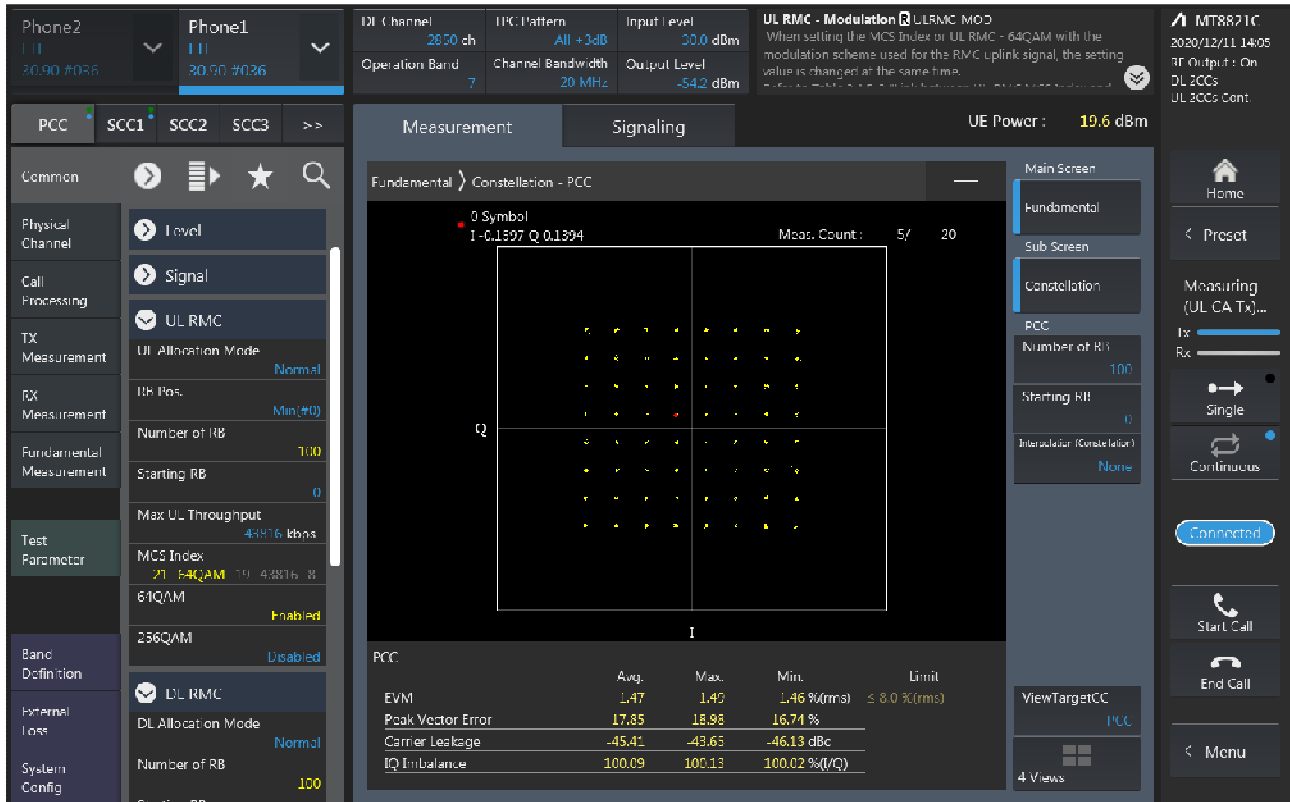


3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB
3.1.1.2.1 Test Channel =20850+20994



3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 20850+20994





4 26dB Bandwidth and Occupied Bandwidth

Test Band	Test Mode PCC/SCC	Modulation PCC&SCC	Test Channel PCC/SCC	RB Config	OBW [MHz]	EBW [MHz]	Verdict
CA_7C	50RB+100RB	QPSK	20805+20949	50RB#0+100RB#0	27.56	28.58	PASS
CA_7C	50RB+100RB	16QAM	20805+20949	50RB#0+100RB#0	27.55	28.55	PASS
CA_7C	50RB+100RB	64QAM	20805+20949	50RB#0+100RB#0	27.56	28.60	PASS
CA_7C	50RB+100RB	QPSK	21006+21150	50RB#0+100RB#0	27.58	28.57	PASS
CA_7C	50RB+100RB	16QAM	21006+21150	50RB#0+100RB#0	27.52	28.55	PASS
CA_7C	50RB+100RB	64QAM	21006+21150	50RB#0+100RB#0	27.53	28.57	PASS
CA_7C	50RB+100RB	QPSK	21206+21350	50RB#0+100RB#0	27.61	28.43	PASS
CA_7C	50RB+100RB	16QAM	21206+21350	50RB#0+100RB#0	27.55	28.54	PASS
CA_7C	50RB+100RB	64QAM	21206+21350	50RB#0+100RB#0	27.56	28.63	PASS
CA_7C	75RB+50RB	QPSK	20825+20945	75RB#0+50RB#0	23.26	24.46	PASS
CA_7C	75RB+50RB	16QAM	20825+20945	75RB#0+50RB#0	23.17	24.45	PASS
CA_7C	75RB+50RB	64QAM	20825+20945	75RB#0+50RB#0	23.17	24.45	PASS
CA_7C	75RB+50RB	QPSK	21051+21171	75RB#0+50RB#0	23.19	24.46	PASS
CA_7C	75RB+50RB	16QAM	21051+21171	75RB#0+50RB#0	23.30	24.14	PASS
CA_7C	75RB+50RB	64QAM	21051+21171	75RB#0+50RB#0	23.33	24.17	PASS
CA_7C	75RB+50RB	QPSK	21277+21397	75RB#0+50RB#0	23.23	28.43	PASS
CA_7C	75RB+50RB	16QAM	21277+21397	75RB#0+50RB#0	23.21	24.47	PASS
CA_7C	75RB+50RB	64QAM	21277+21397	75RB#0+50RB#0	23.21	24.46	PASS
CA_7C	75RB+75RB	QPSK	20825+20975	75RB#0+75RB#0	28.19	29.23	PASS
CA_7C	75RB+75RB	16QAM	20825+20975	75RB#0+75RB#0	28.22	29.18	PASS
CA_7C	75RB+75RB	64QAM	20825+20975	75RB#0+75RB#0	28.21	29.23	PASS
CA_7C	75RB+75RB	QPSK	21025+21175	75RB#0+75RB#0	28.19	29.20	PASS
CA_7C	75RB+75RB	16QAM	21025+21175	75RB#0+75RB#0	28.19	29.20	PASS
CA_7C	75RB+75RB	64QAM	21025+21175	75RB#0+75RB#0	28.18	29.20	PASS
CA_7C	75RB+75RB	QPSK	21225+21375	75RB#0+75RB#0	28.24	29.24	PASS
CA_7C	75RB+75RB	16QAM	21225+21375	75RB#0+75RB#0	28.22	29.24	PASS
CA_7C	75RB+75RB	64QAM	21225+21375	75RB#0+75RB#0	28.21	29.23	PASS
CA_7C	75RB+100RB	QPSK	20828+20999	75RB#0+100RB#0	32.43	33.89	PASS
CA_7C	75RB+100RB	16QAM	20828+20999	75RB#0+100RB#0	32.61	33.97	PASS
CA_7C	75RB+100RB	64QAM	20828+20999	75RB#0+100RB#0	32.39	33.95	PASS
CA_7C	75RB+100RB	QPSK	21003+21174	75RB#0+100RB#0	32.03	33.79	PASS
CA_7C	75RB+100RB	16QAM	21003+21174	75RB#0+100RB#0	32.53	33.79	PASS
CA_7C	75RB+100RB	64QAM	21003+21174	75RB#0+100RB#0	31.99	33.91	PASS



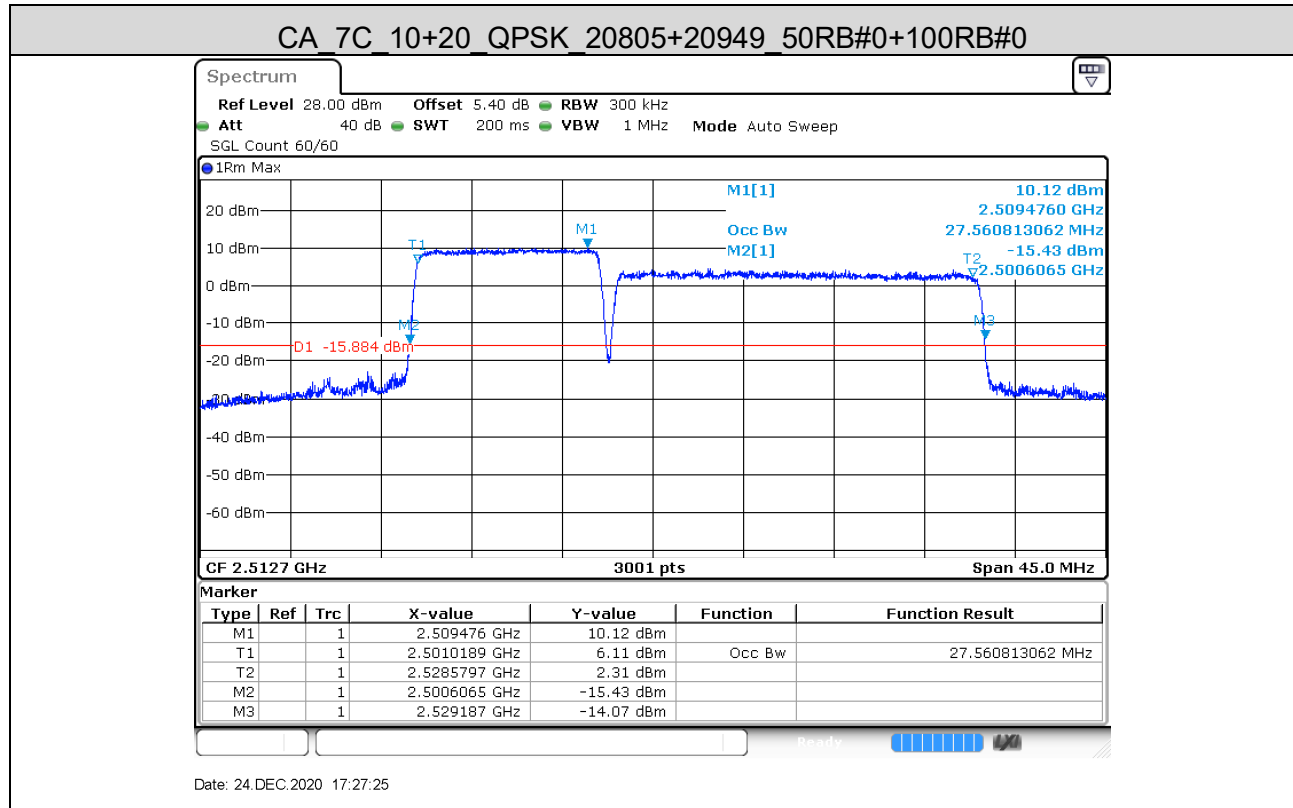


CA_7C	75RB+100RB	QPSK	21179+21350	75RB#0+100RB#0	32.53	33.85	PASS
CA_7C	75RB+100RB	16QAM	21179+21350	75RB#0+100RB#0	32.09	33.85	PASS
CA_7C	75RB+100RB	64QAM	21179+21350	75RB#0+100RB#0	32.01	33.91	PASS
CA_7C	100RB+50RB	QPSK	20850+20994	100RB#0+50RB#0	27.68	29.12	PASS
CA_7C	100RB+50RB	16QAM	20850+20994	100RB#0+50RB#0	27.74	29.06	PASS
CA_7C	100RB+50RB	64QAM	20850+20994	100RB#0+50RB#0	27.73	29.09	PASS
CA_7C	100RB+50RB	QPSK	21051+21195	100RB#0+50RB#0	27.79	28.88	PASS
CA_7C	100RB+50RB	16QAM	21051+21195	100RB#0+50RB#0	27.46	29.05	PASS
CA_7C	100RB+50RB	64QAM	21051+21195	100RB#0+50RB#0	27.47	29.03	PASS
CA_7C	100RB+50RB	QPSK	21251+21395	100RB#0+50RB#0	27.79	29.12	PASS
CA_7C	100RB+50RB	16QAM	21251+21395	100RB#0+50RB#0	27.55	29.08	PASS
CA_7C	100RB+50RB	64QAM	21251+21395	100RB#0+50RB#0	27.71	29.17	PASS
CA_7C	100RB+75RB	QPSK	20850+21021	100RB#0+75RB#0	32.55	33.91	PASS
CA_7C	100RB+75RB	16QAM	20850+21021	100RB#0+75RB#0	32.53	33.93	PASS
CA_7C	100RB+75RB	64QAM	20850+21021	100RB#0+75RB#0	32.53	33.95	PASS
CA_7C	100RB+75RB	QPSK	21026+21197	100RB#0+75RB#0	32.53	33.99	PASS
CA_7C	100RB+75RB	16QAM	21026+21197	100RB#0+75RB#0	32.53	33.97	PASS
CA_7C	100RB+75RB	64QAM	21026+21197	100RB#0+75RB#0	32.49	33.95	PASS
CA_7C	100RB+75RB	QPSK	21201+21372	100RB#0+75RB#0	32.57	33.99	PASS
CA_7C	100RB+75RB	16QAM	21201+21372	100RB#0+75RB#0	32.55	33.97	PASS
CA_7C	100RB+75RB	64QAM	21201+21372	100RB#0+75RB#0	32.55	33.99	PASS
CA_7C	100RB+100RB	QPSK	20850+21048	100RB#0+100RB#0	37.29	38.89	PASS
CA_7C	100RB+100RB	16QAM	20850+21048	100RB#0+100RB#0	37.25	38.87	PASS
CA_7C	100RB+100RB	64QAM	20850+21048	100RB#0+100RB#0	37.25	38.83	PASS
CA_7C	100RB+100RB	QPSK	21001+21199	100RB#0+100RB#0	36.73	38.87	PASS
CA_7C	100RB+100RB	16QAM	21001+21199	100RB#0+100RB#0	37.09	38.75	PASS
CA_7C	100RB+100RB	64QAM	21001+21199	100RB#0+100RB#0	36.69	38.89	PASS
CA_7C	100RB+100RB	QPSK	21152+21350	100RB#0+100RB#0	36.83	38.91	PASS
CA_7C	100RB+100RB	16QAM	21152+21350	100RB#0+100RB#0	36.97	38.87	PASS
CA_7C	100RB+100RB	64QAM	21152+21350	100RB#0+100RB#0	36.99	38.75	PASS

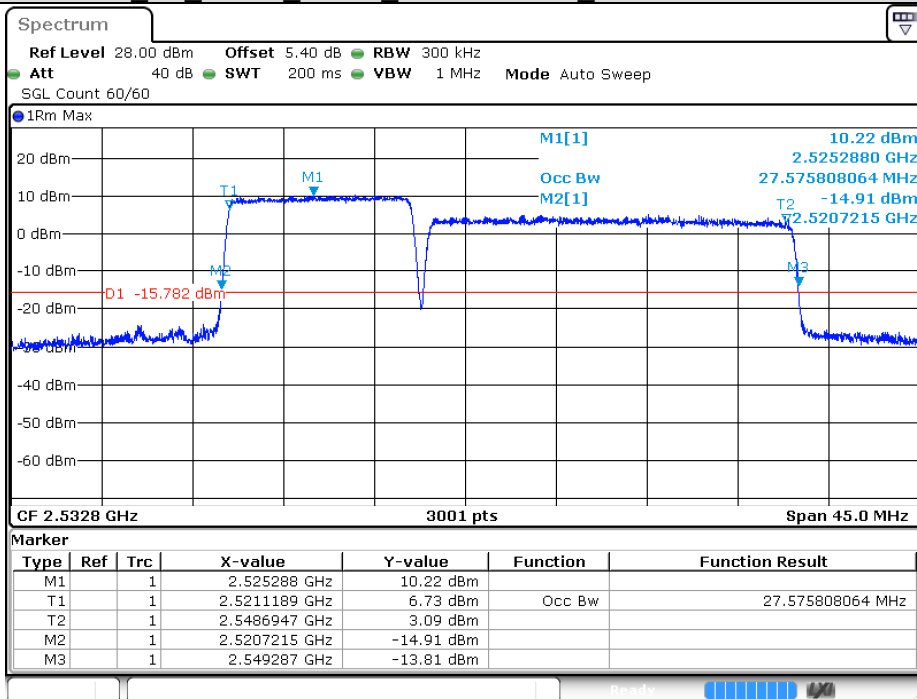


4.1 For LTE

4.1.1 Test Band = LTE Band CA_7C

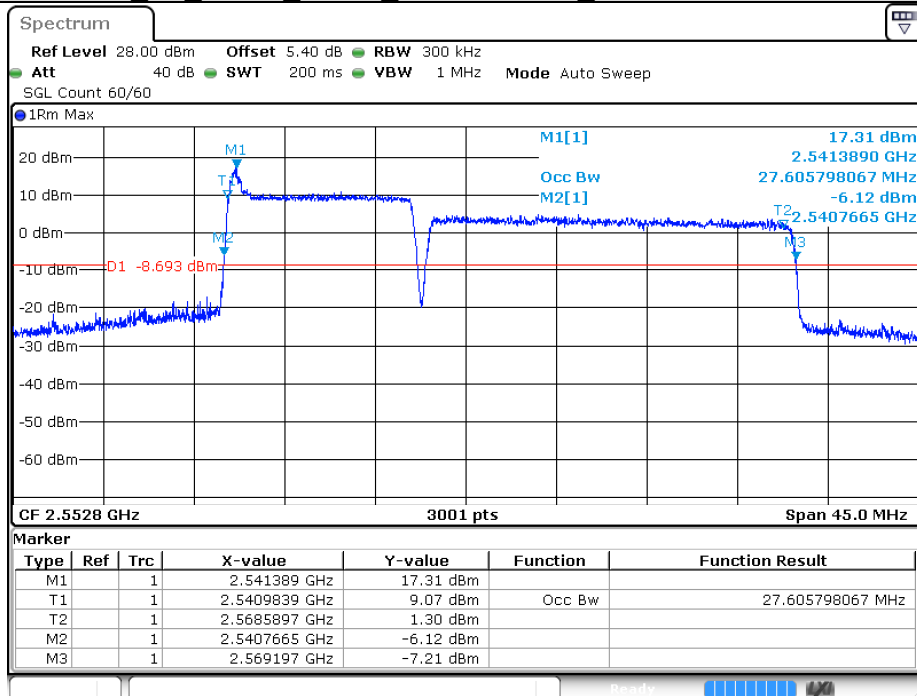


CA 7C 10+20 QPSK 21006+21150 50RB#0+100RB#0



Date: 24.DEC.2020 17:28:27

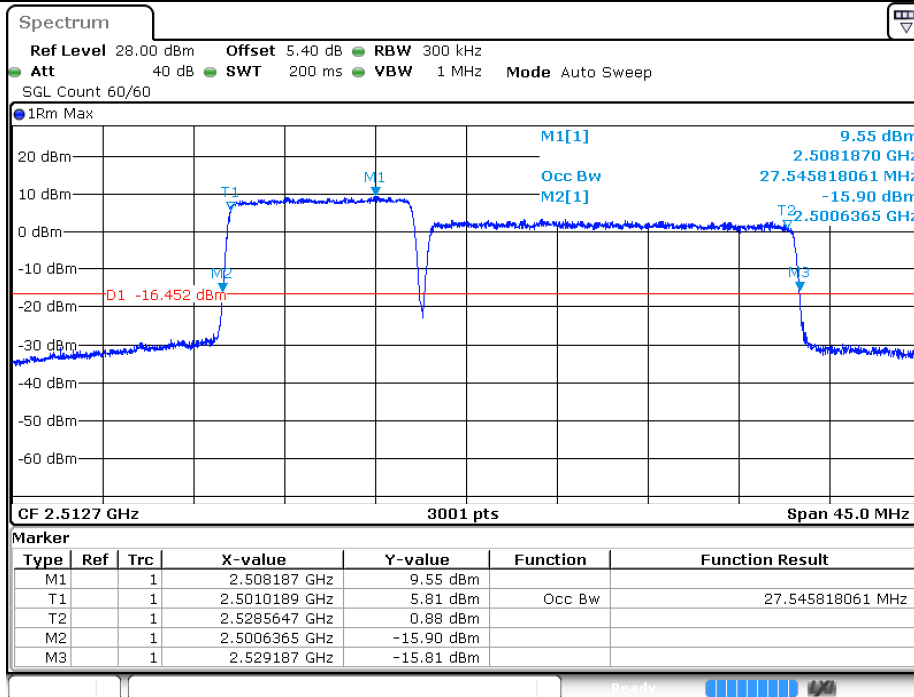
CA 7C 10+20 QPSK 21206+21350 50RB#0+100RB#0



Date: 24.DEC.2020 17:29:27

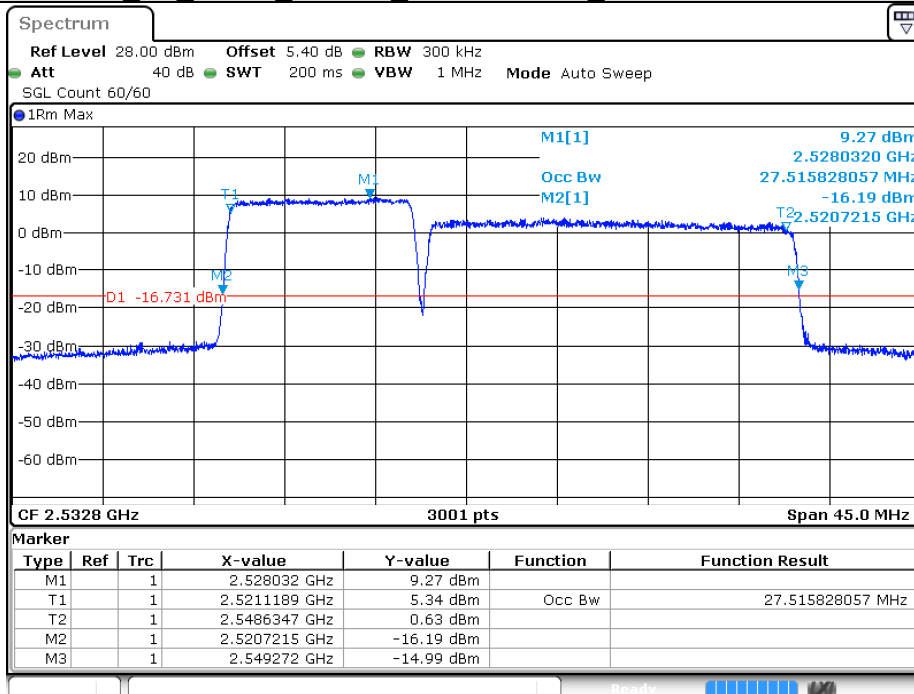


CA 7C 10+20 16QAM 20805+20949 50RB#0+100RB#0



Date: 24.DEC.2020 17:27:43

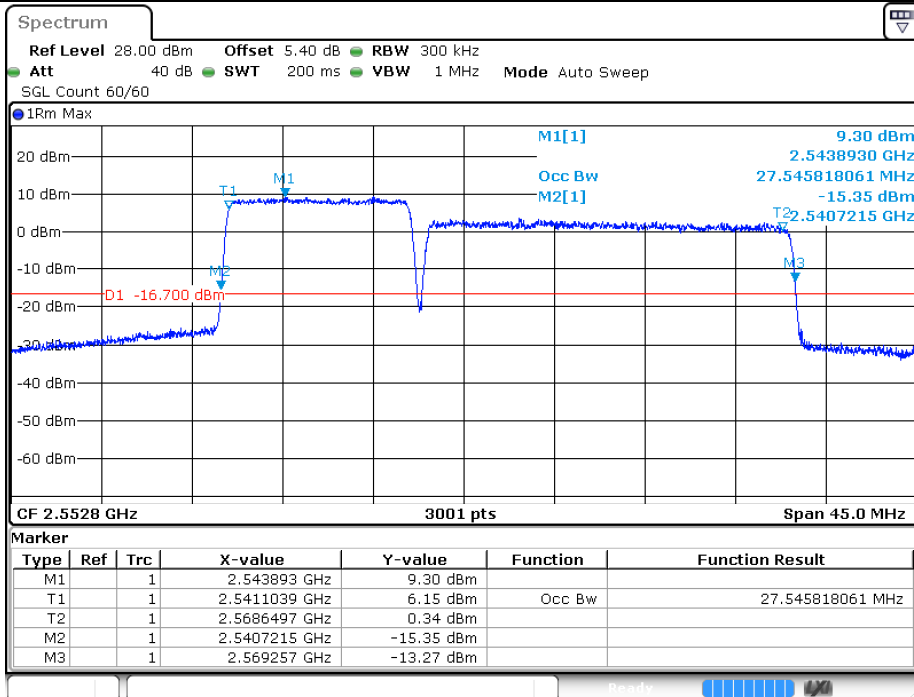
CA 7C 10+20 16QAM 21006+21150 50RB#0+100RB#0



Date: 24.DEC.2020 17:28:44

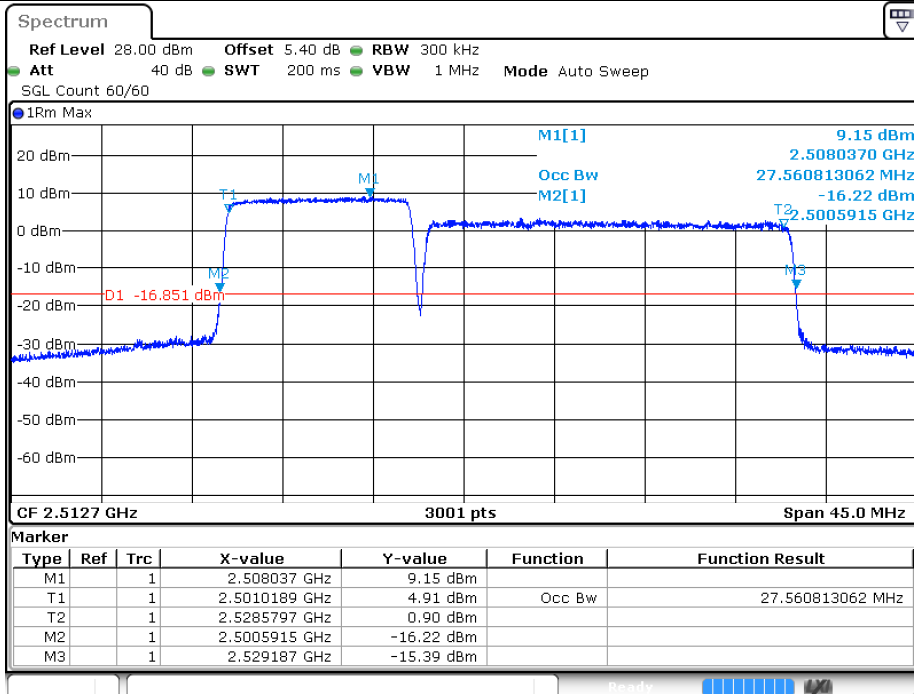


CA 7C 10+20 16QAM 21206+21350 50RB#0+100RB#0



Date: 24.DEC.2020 17:29:45

CA 7C 10+20 64QAM 20805+20949 50RB#0+100RB#0



Date: 24.DEC.2020 17:28:02



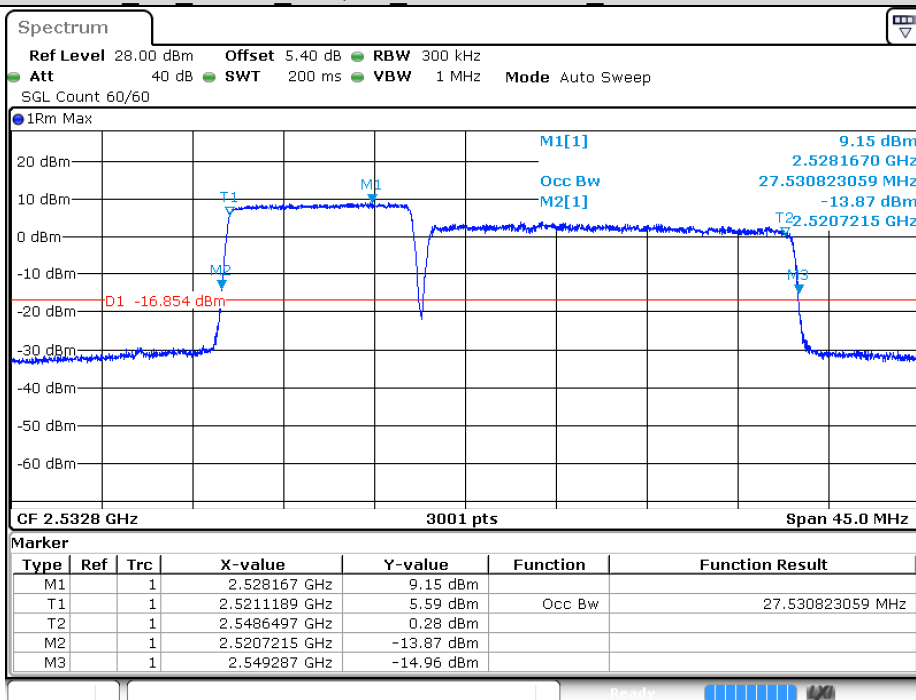
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Internal Testing Laboratory)

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

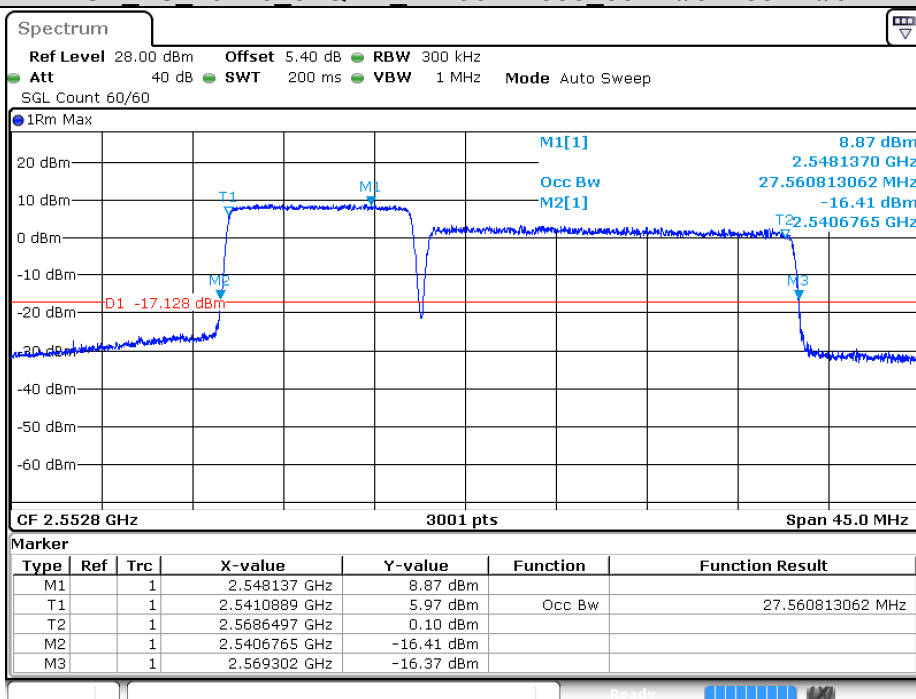
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

CA 7C 10+20 64QAM 21006+21150 50RB#0+100RB#0



Date: 24.DEC.2020 17:29:02

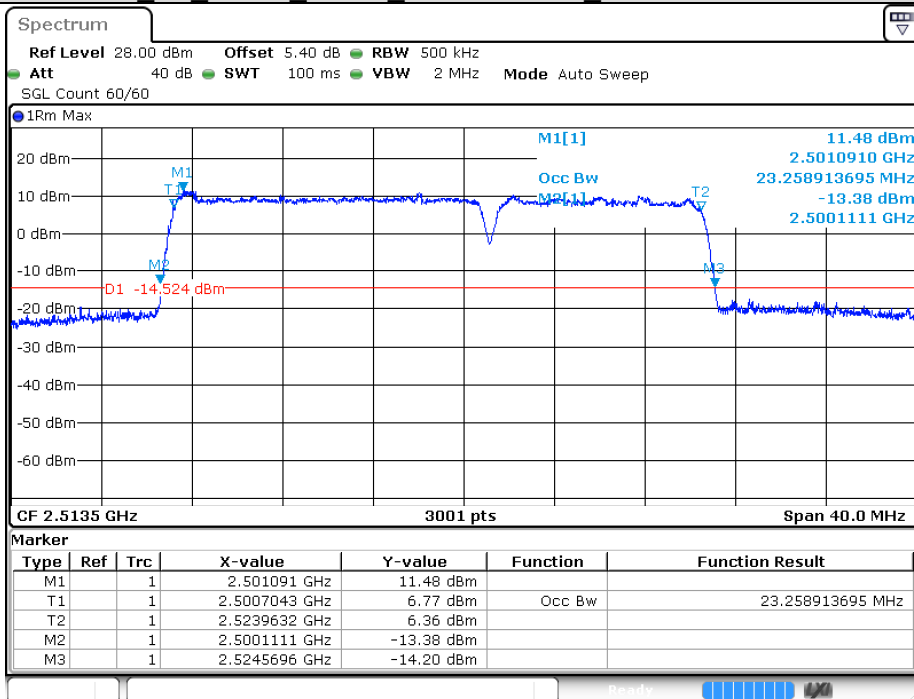
CA 7C 10+20 64QAM 21206+21350 50RB#0+100RB#0



Date: 24.DEC.2020 17:30:03

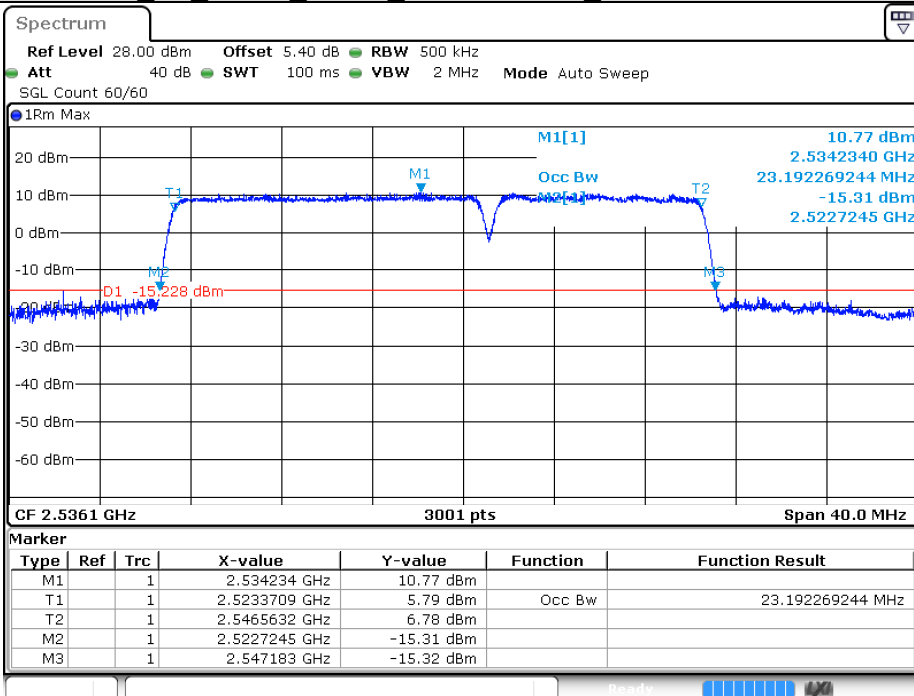


CA 7C 15+10 QPSK 20825+20945 75RB#0+50RB#0



Date: 24.DEC.2020 17:32:32

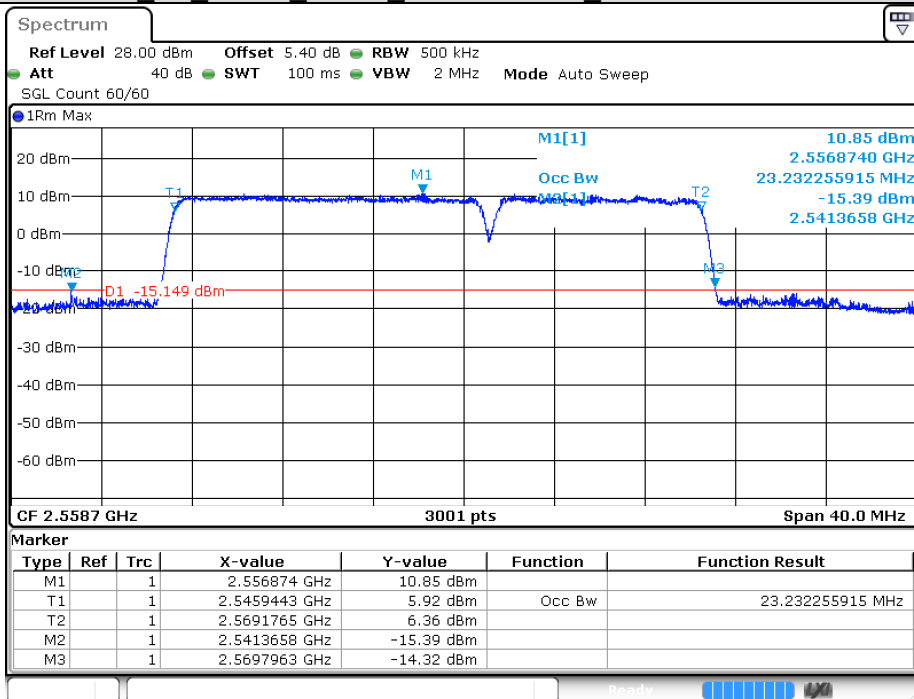
CA 7C 15+10 QPSK 21051+21171 75RB#0+50RB#0



Date: 24.DEC.2020 17:34:56

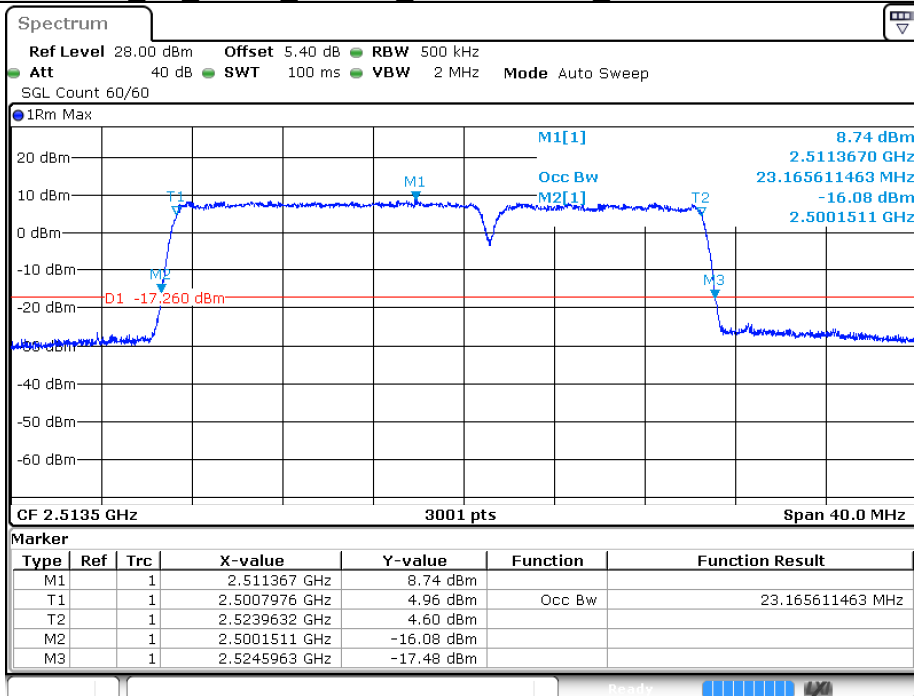


CA 7C 15+10 QPSK 21277+21397 75RB#0+50RB#0



Date: 24.DEC.2020 17:35:44

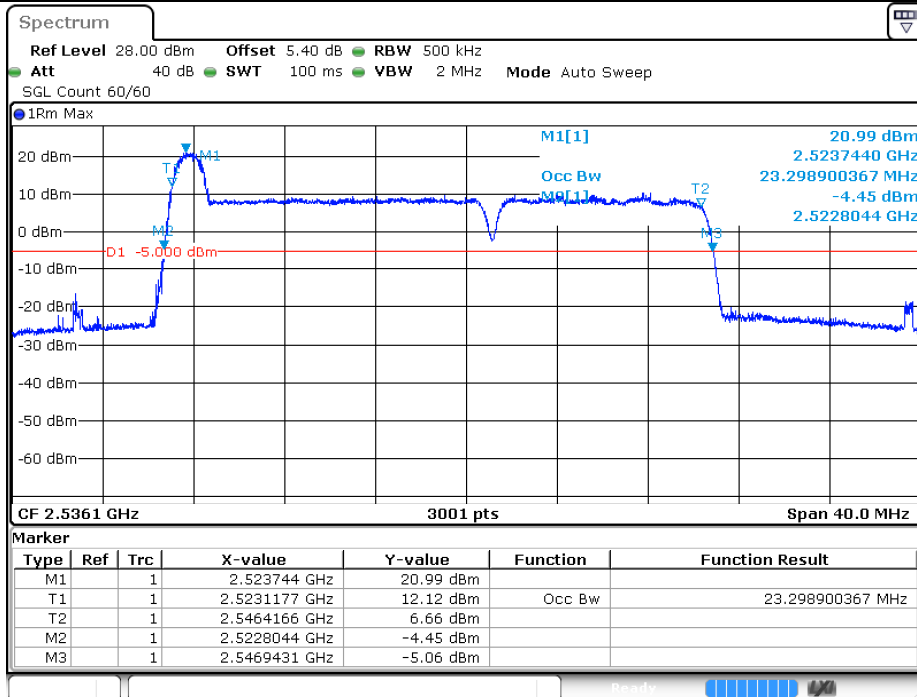
CA 7C 15+10 16QAM 20825+20945 75RB#0+50RB#0



Date: 24.DEC.2020 17:32:44

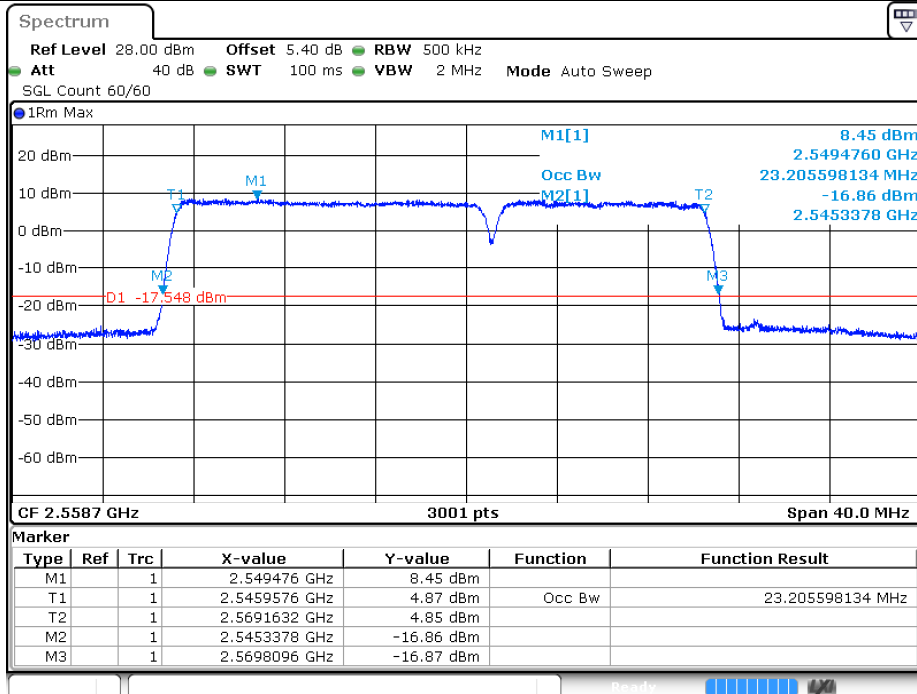


CA 7C 15+10 16QAM 21051+21171 75RB#0+50RB#0



Date: 24.DEC.2020 17:35:08

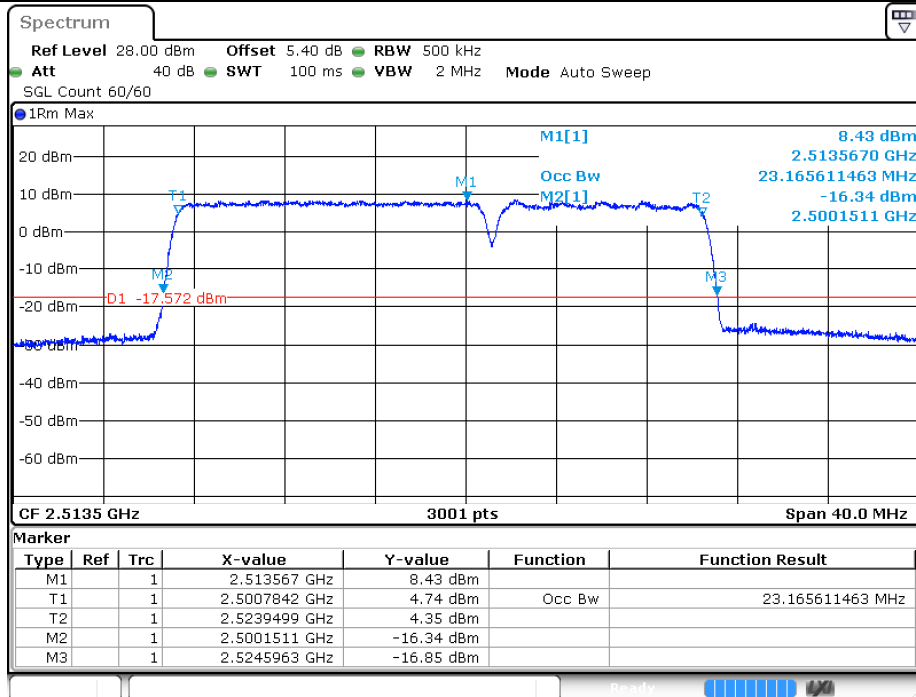
CA 7C 15+10 16QAM 21277+21397 75RB#0+50RB#0



Date: 24.DEC.2020 17:35:55

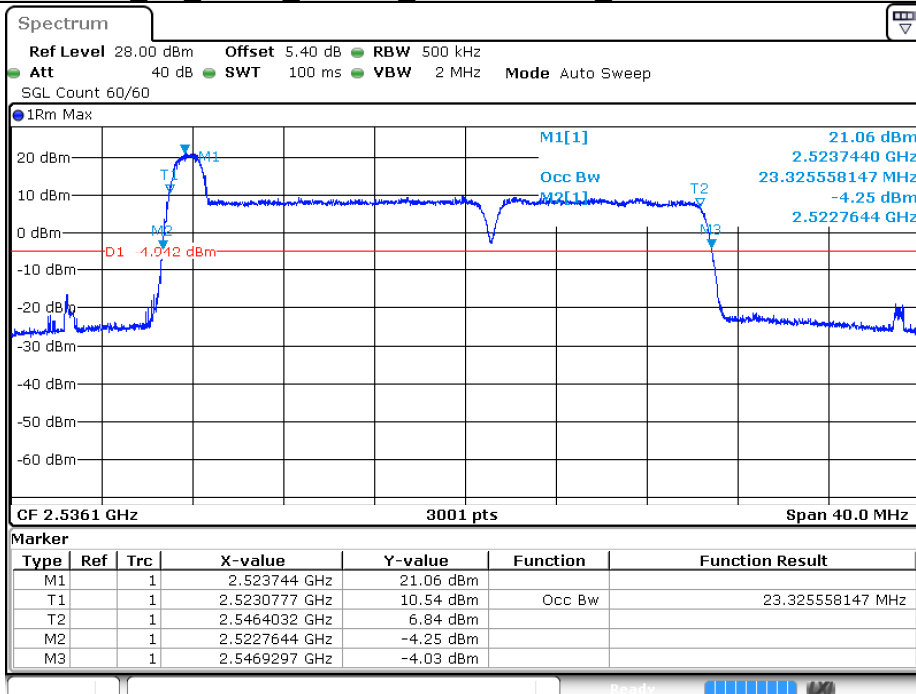


CA 7C 15+10 64QAM 20825+20945 75RB#0+50RB#0



Date: 24.DEC.2020 17:32:56

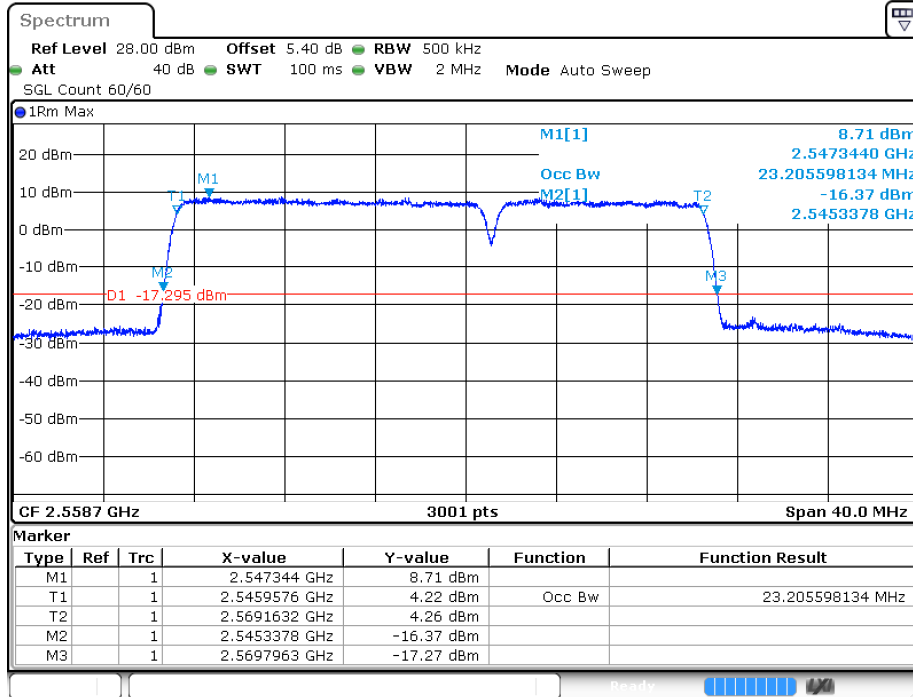
CA 7C 15+10 64QAM 21051+21171 75RB#0+50RB#0



Date: 24.DEC.2020 17:35:19

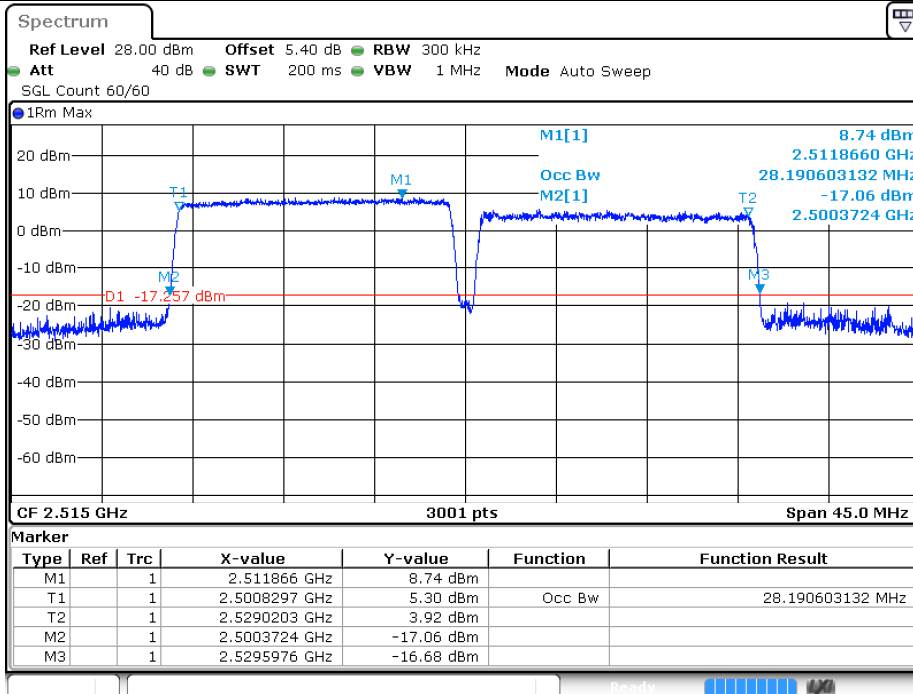


CA 7C 15+10 64QAM 21277+21397 75RB#0+50RB#0



Date: 24.DEC.2020 17:36:07

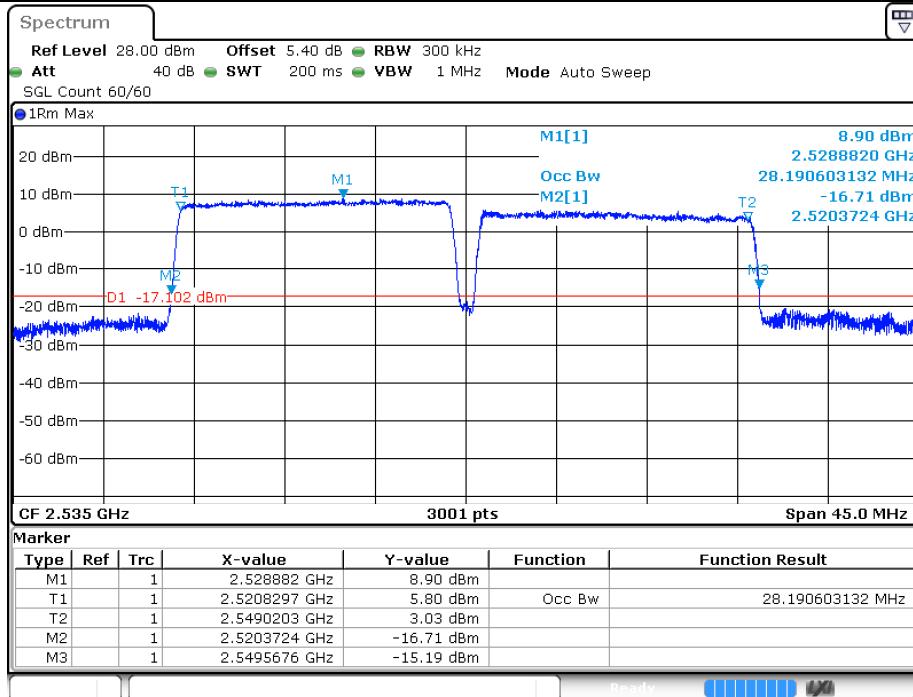
CA 7C 15+15 QPSK 20825+20975 75RB#0+75RB#0



Date: 24.DEC.2020 17:36:36

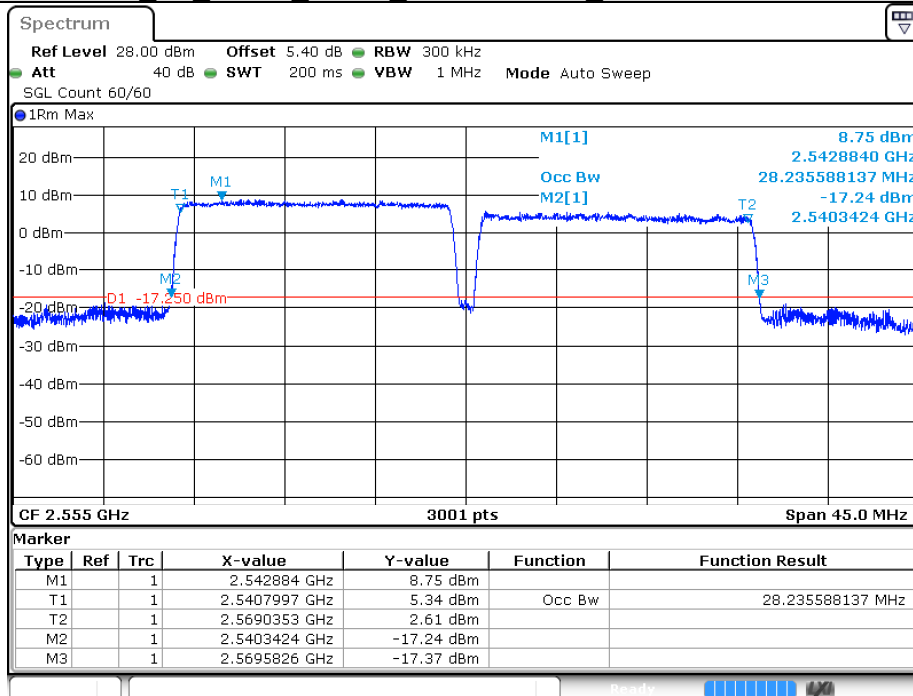


CA 7C 15+15 QPSK 21025+21175 75RB#0+75RB#0



Date: 24.DEC.2020 17:37:37

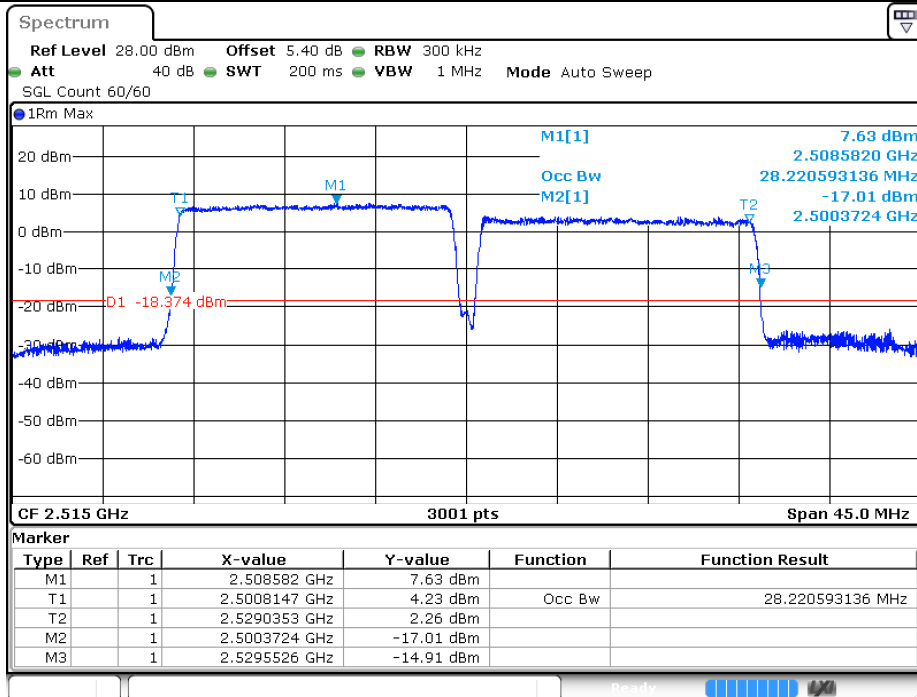
CA 7C 15+15 QPSK 21225+21375 75RB#0+75RB#0



Date: 24.DEC.2020 17:38:37

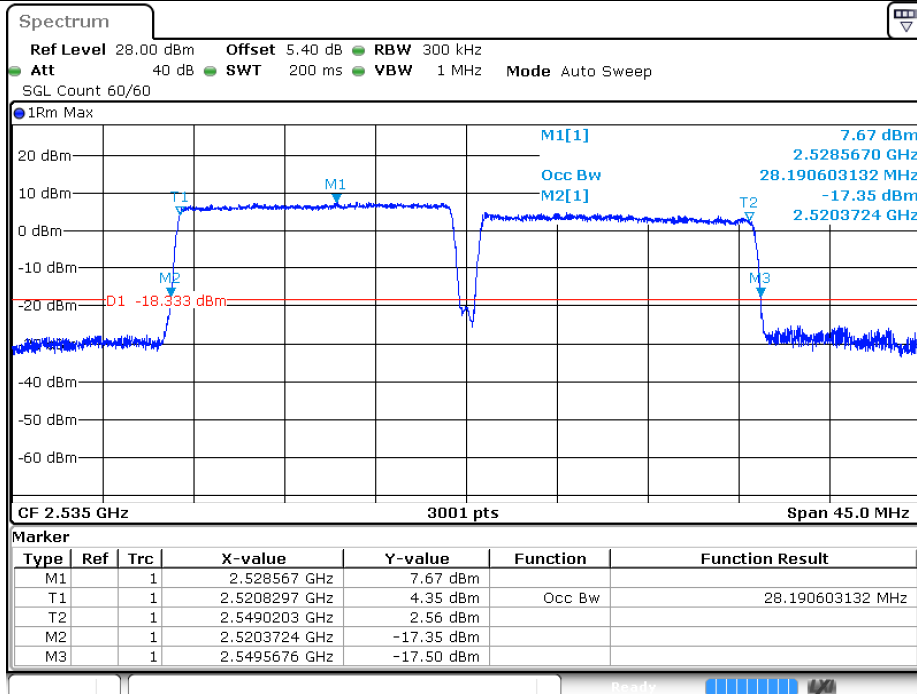


CA 7C 15+15 16QAM 20825+20975 75RB#0+75RB#0



Date: 24.DEC.2020 17:36:54

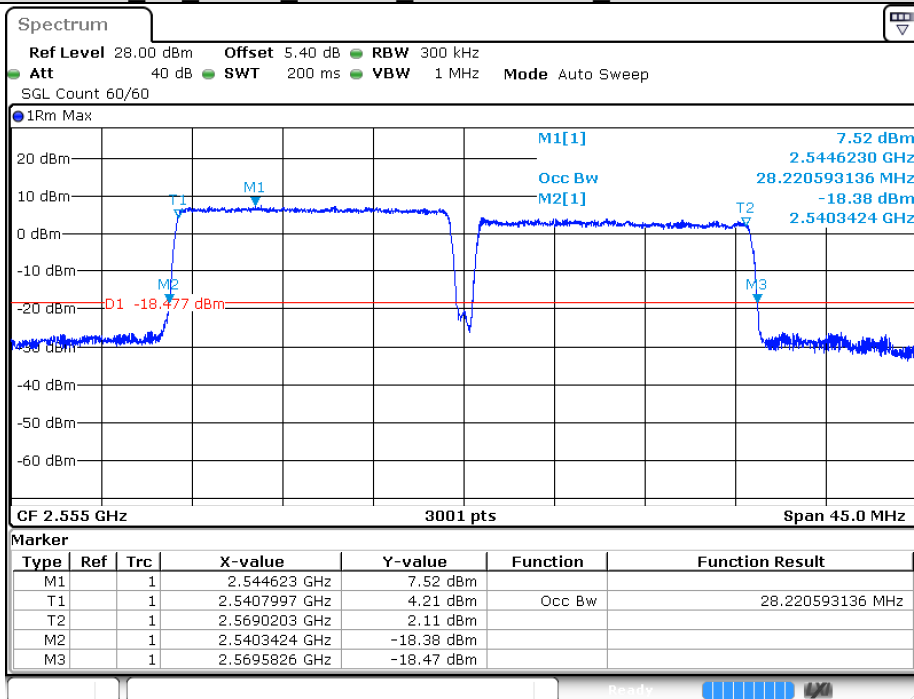
CA 7C 15+15 16QAM 21025+21175 75RB#0+75RB#0



Date: 24.DEC.2020 17:37:54

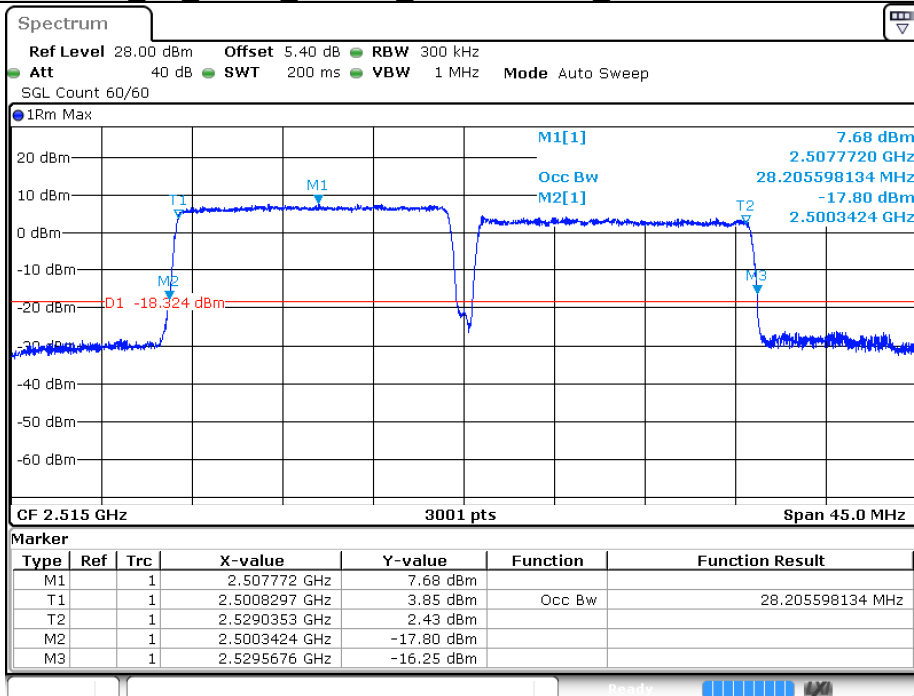


CA 7C 15+15 16QAM 21225+21375 75RB#0+75RB#0



Date: 24.DEC.2020 17:38:54

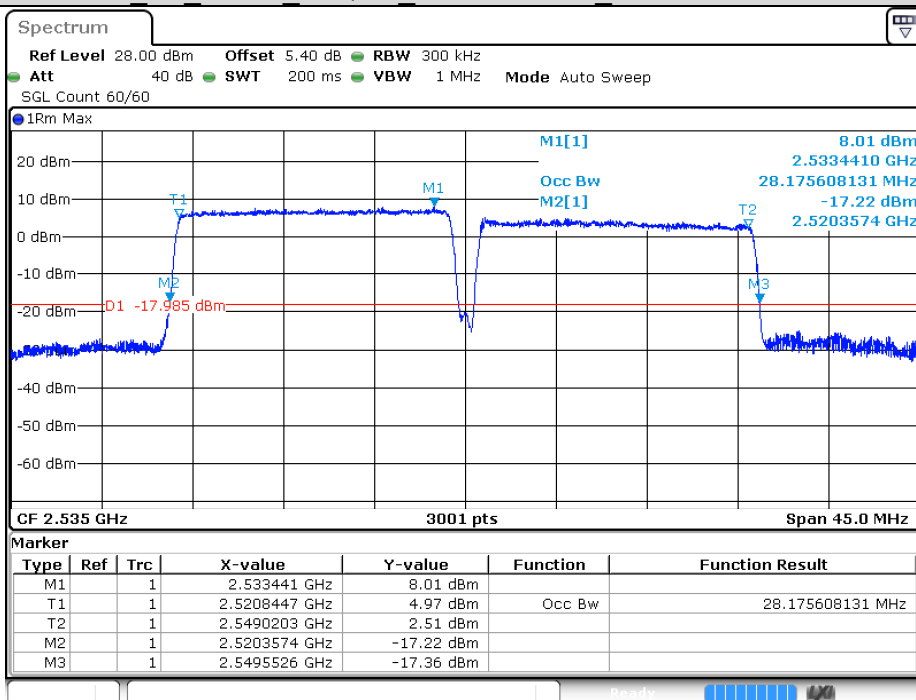
CA 7C 15+15 64QAM 20825+20975 75RB#0+75RB#0



Date: 24.DEC.2020 17:37:12

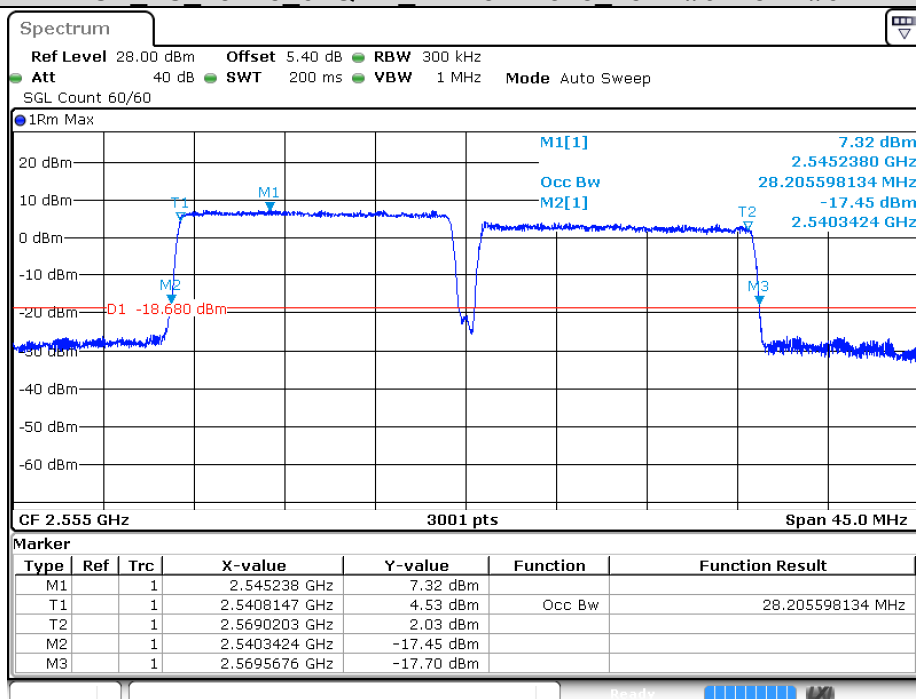


CA 7C 15+15 64QAM 21025+21175 75RB#0+75RB#0



Date: 24.DEC.2020 17:38:12

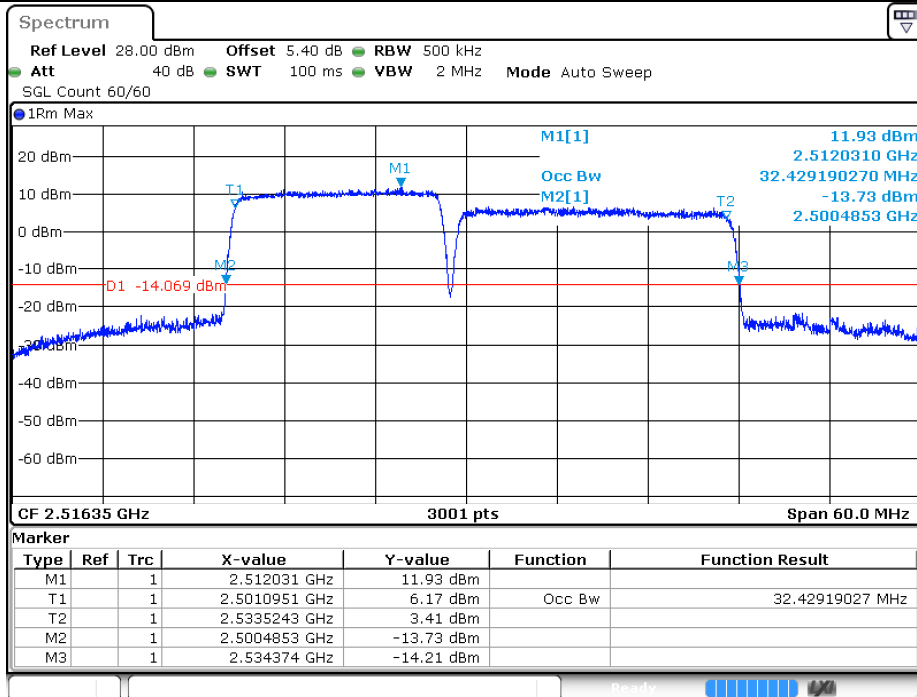
CA 7C 15+15 64QAM 21225+21375 75RB#0+75RB#0



Date: 24.DEC.2020 17:39:12

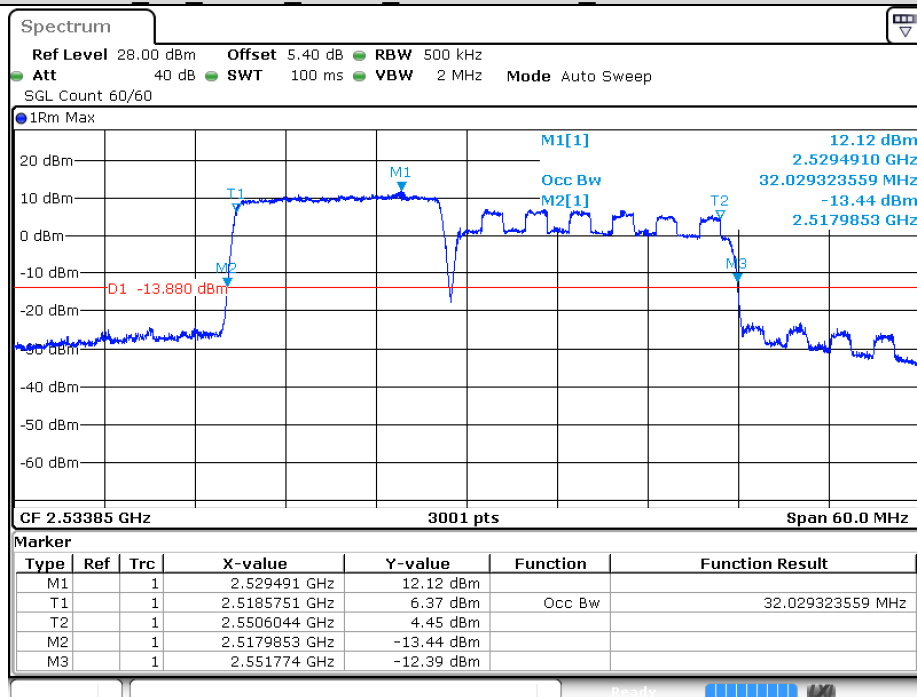


CA 7C 15+20 QPSK 20828+20999 75RB#0+100RB#0



Date: 24.DEC.2020 17:39:36

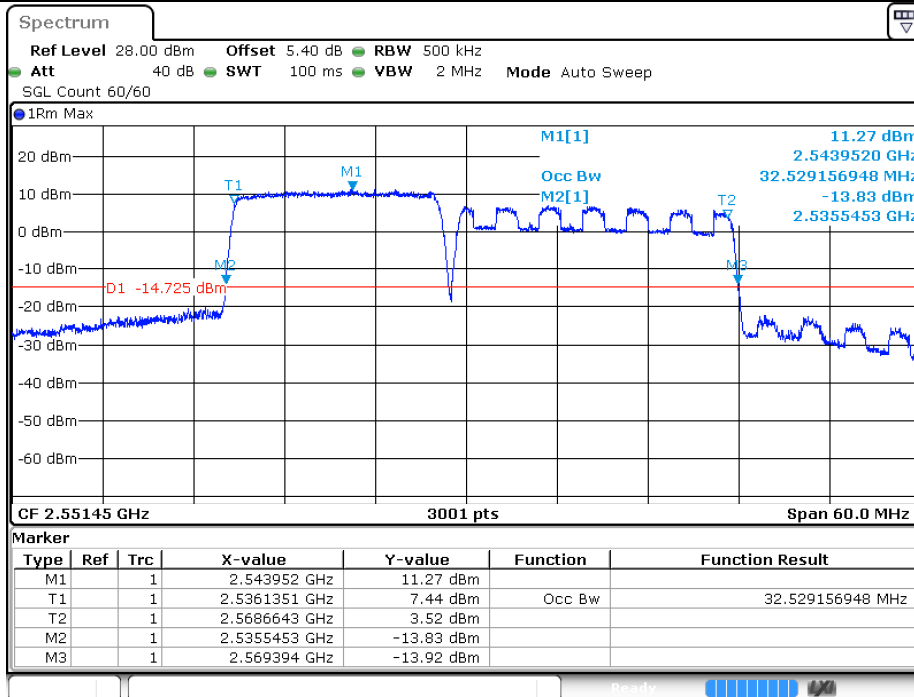
CA 7C 15+20 QPSK 21003+21174 75RB#0+100RB#0



Date: 24.DEC.2020 17:40:20

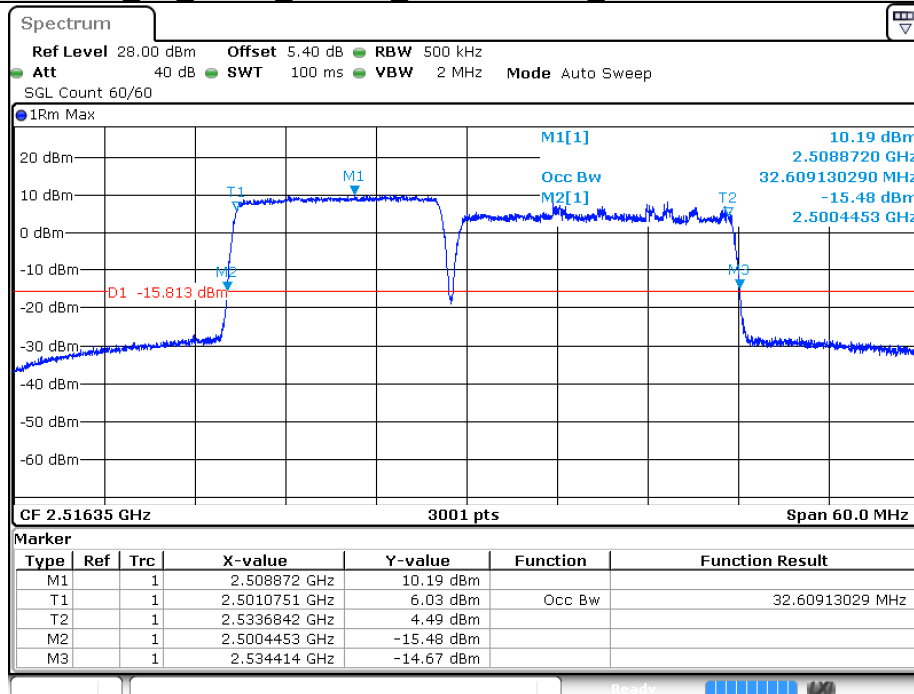


CA 7C 15+20 QPSK 21179+21350 75RB#0+100RB#0



Date: 24.DEC.2020 17:41:10

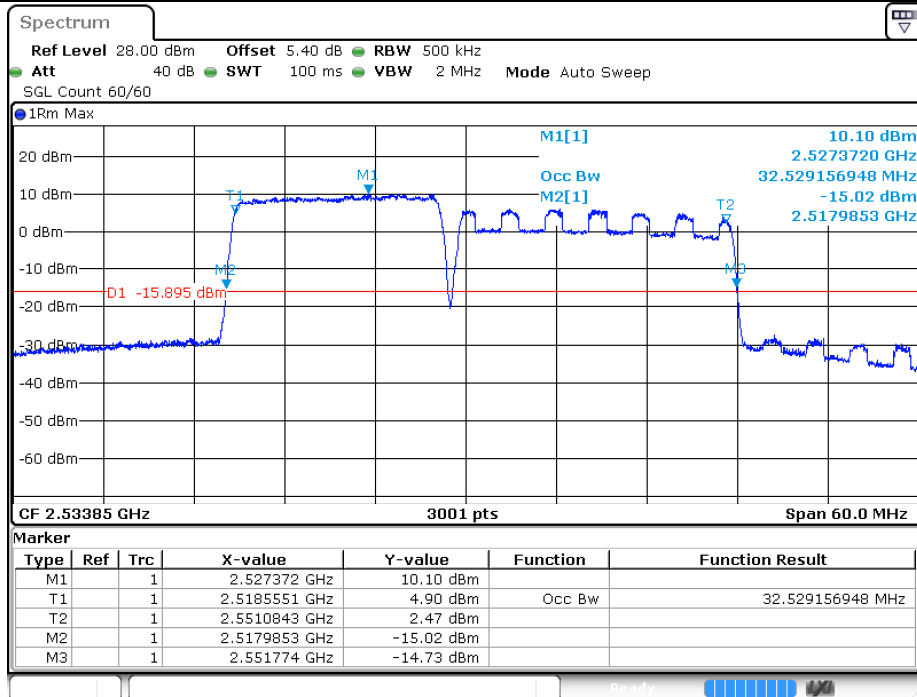
CA 7C 15+20 16QAM 20828+20999 75RB#0+100RB#0



Date: 24.DEC.2020 17:39:48

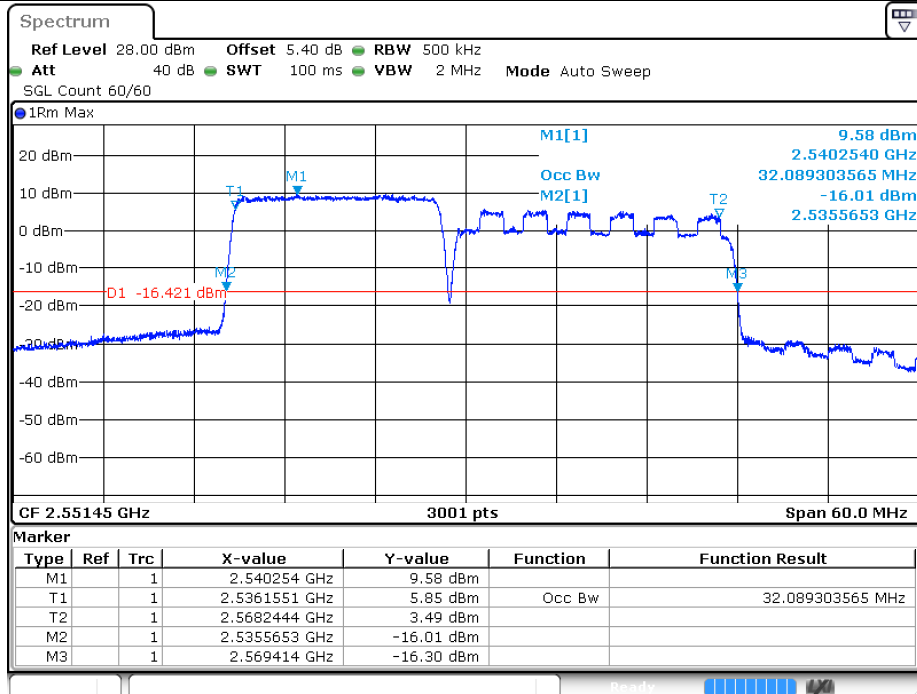


CA 7C 15+20 16QAM 21003+21174 75RB#0+100RB#0



Date: 24.DEC.2020 17:40:33

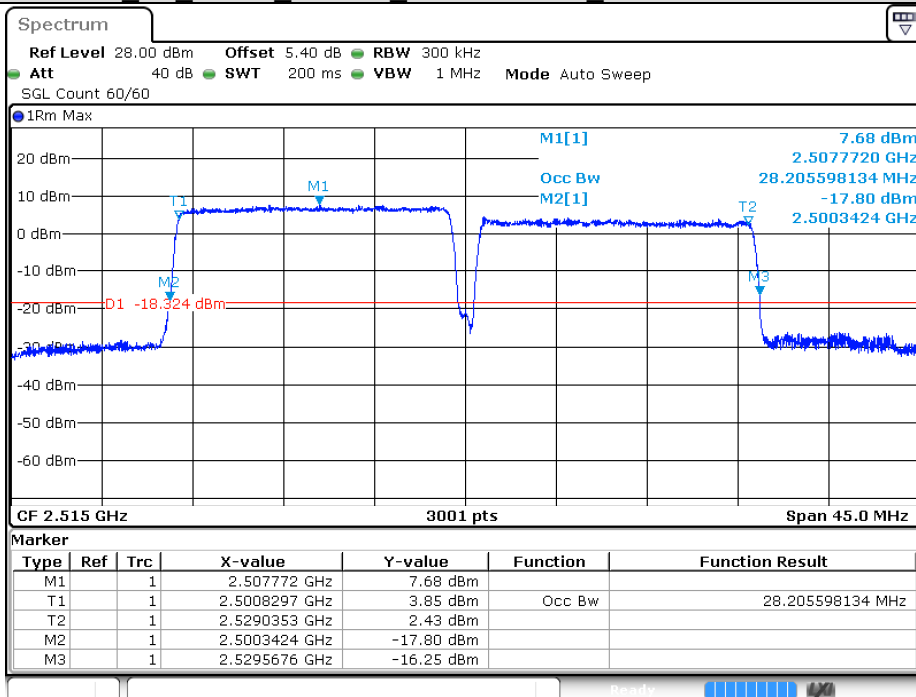
CA 7C 15+20 16QAM 21179+21350 75RB#0+100RB#0



Date: 24.DEC.2020 17:41:23

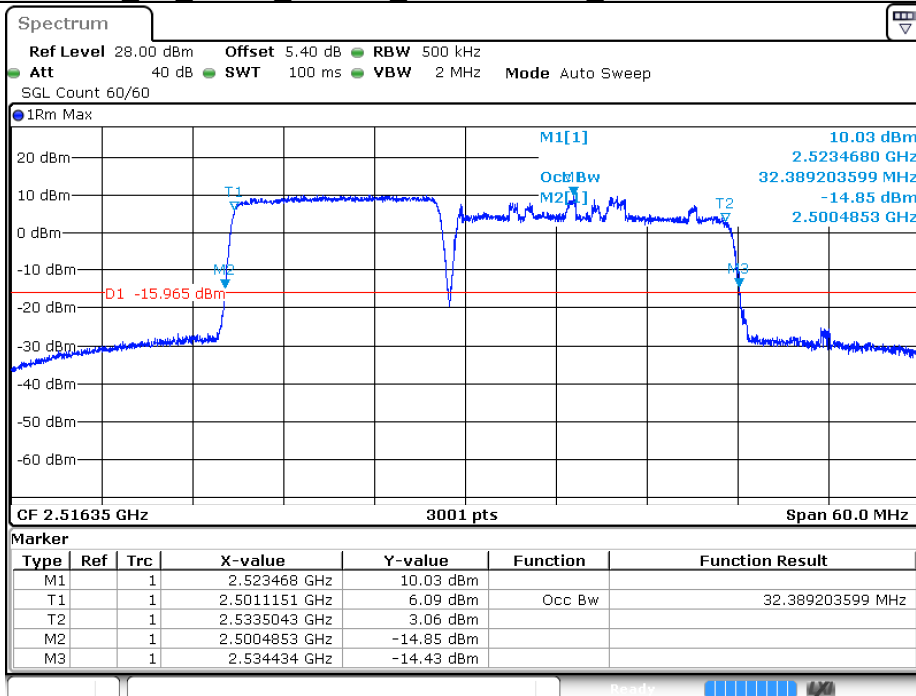


CA 7C 15+20 64QAM 20828+20999 75RB#0+100RB#0



Date: 24.DEC.2020 17:37:12

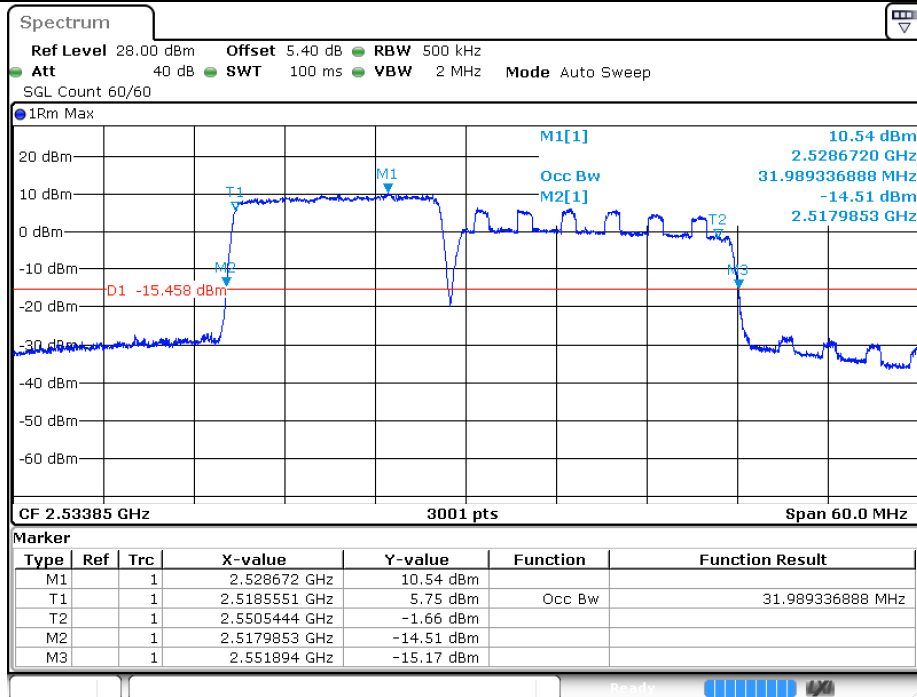
CA 7C 15+20 64QAM 21003+21174 75RB#0+100RB#0



Date: 24.DEC.2020 17:40:01

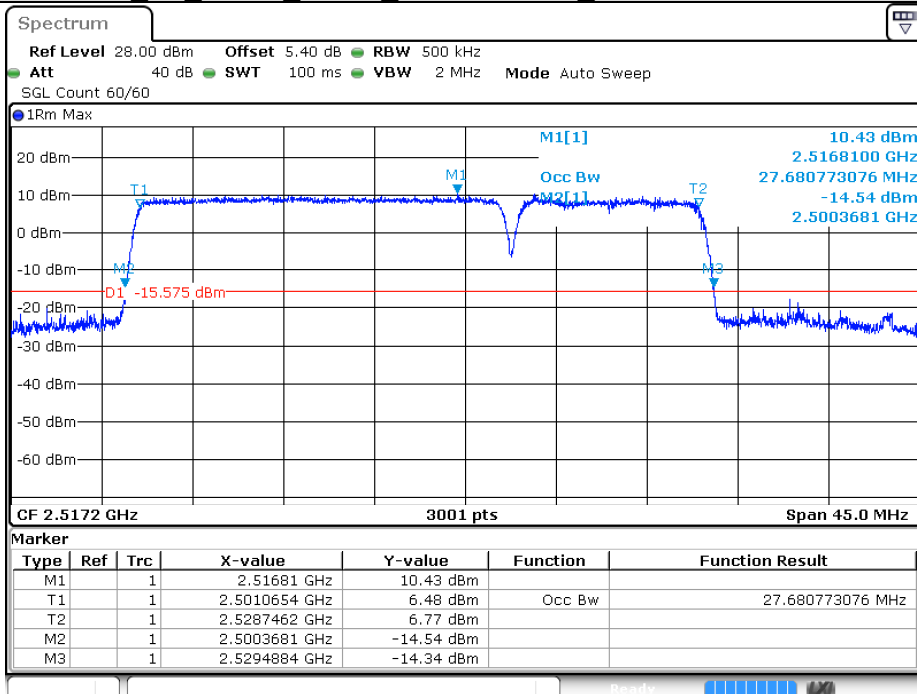


CA 7C 15+20 64QAM 21179+21350 75RB#0+100RB#0



Date: 24.DEC.2020 17:40:45

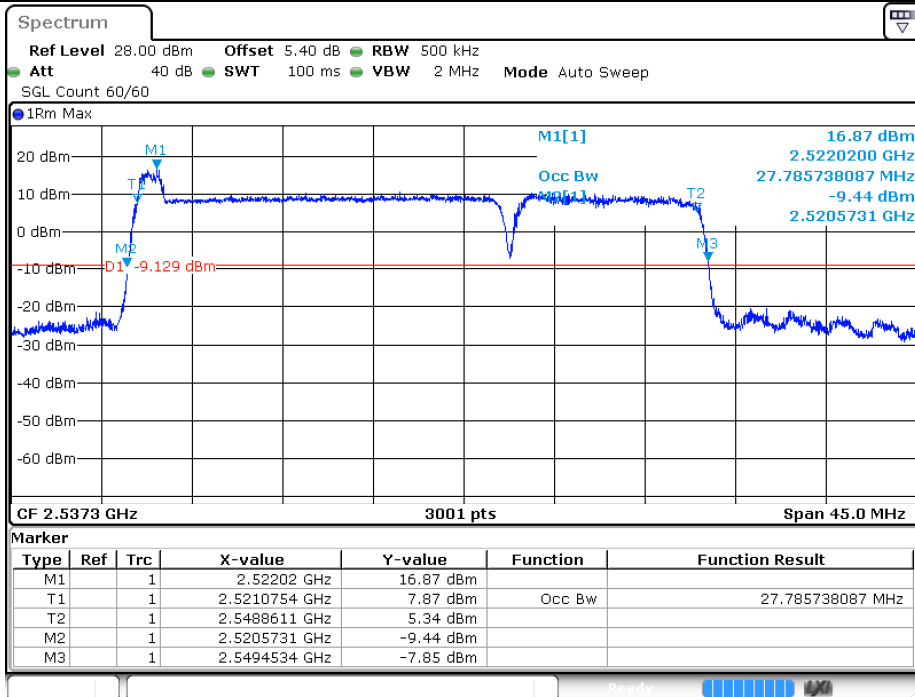
CA 7C 20+10 QPSK 20850+20994 100RB#0+50RB#0



Date: 24.DEC.2020 17:30:25

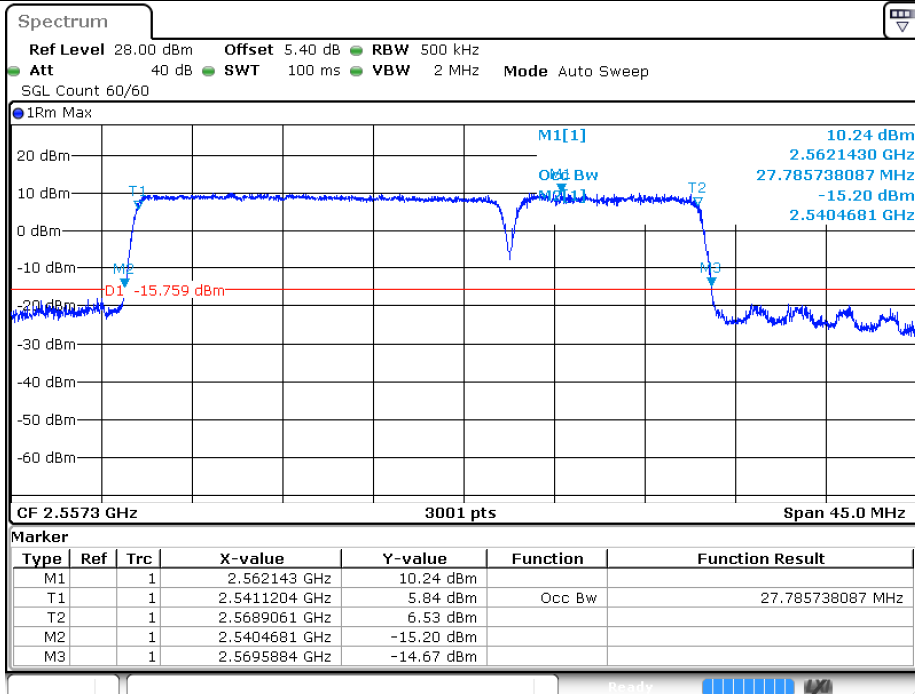


CA 7C 20+10 QPSK 21051+21195 100RB#0+50RB#0



Date: 24.DEC.2020 17:31:05

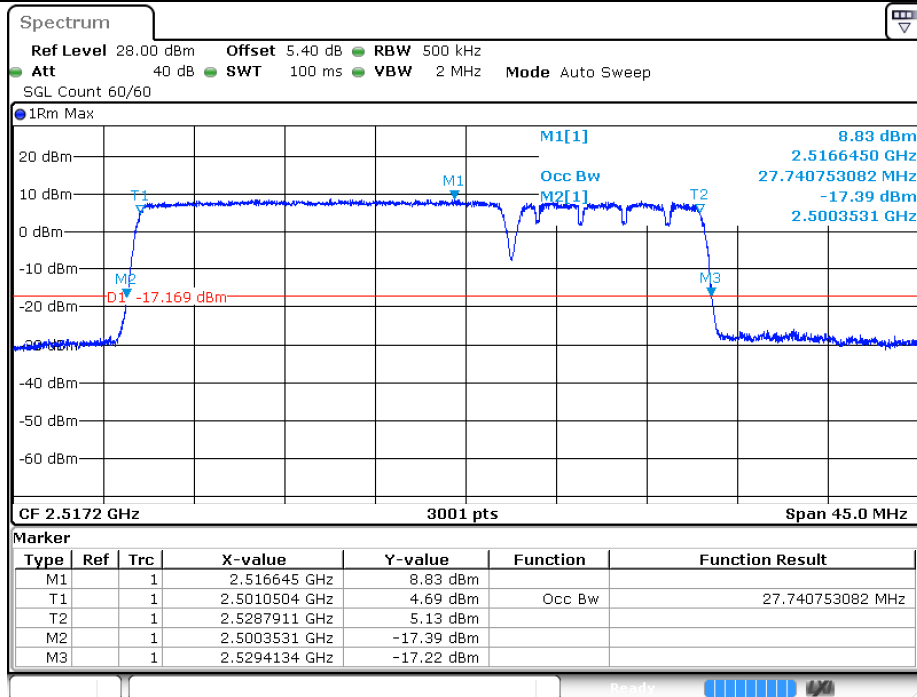
CA 7C 20+10 QPSK 21251+21395 100RB#0+50RB#0



Date: 24.DEC.2020 17:31:47

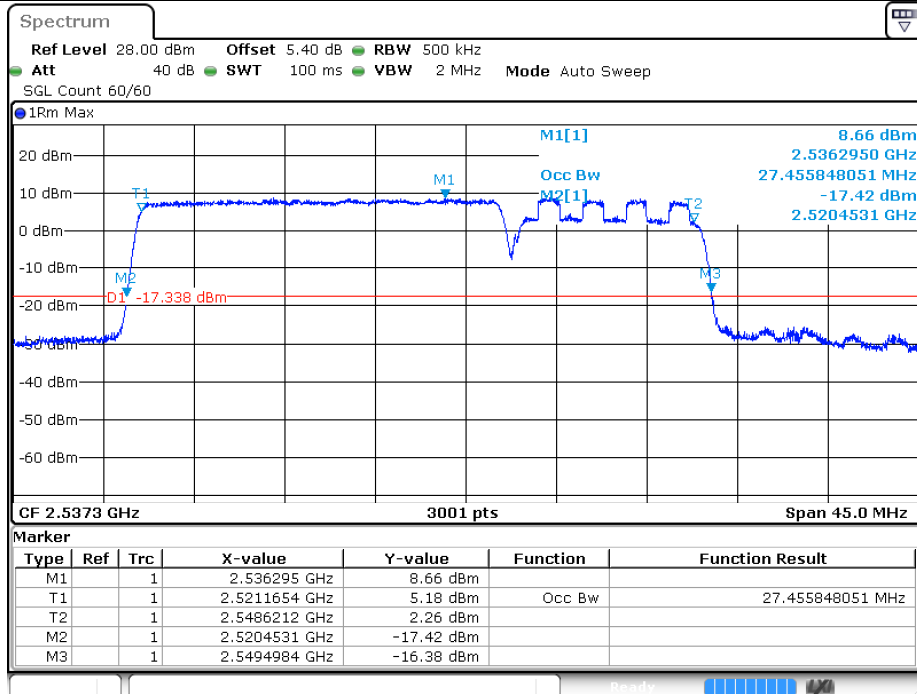


CA 7C 20+10 16QAM 20850+20994 100RB#0+50RB#0



Date: 24.DEC.2020 17:30:36

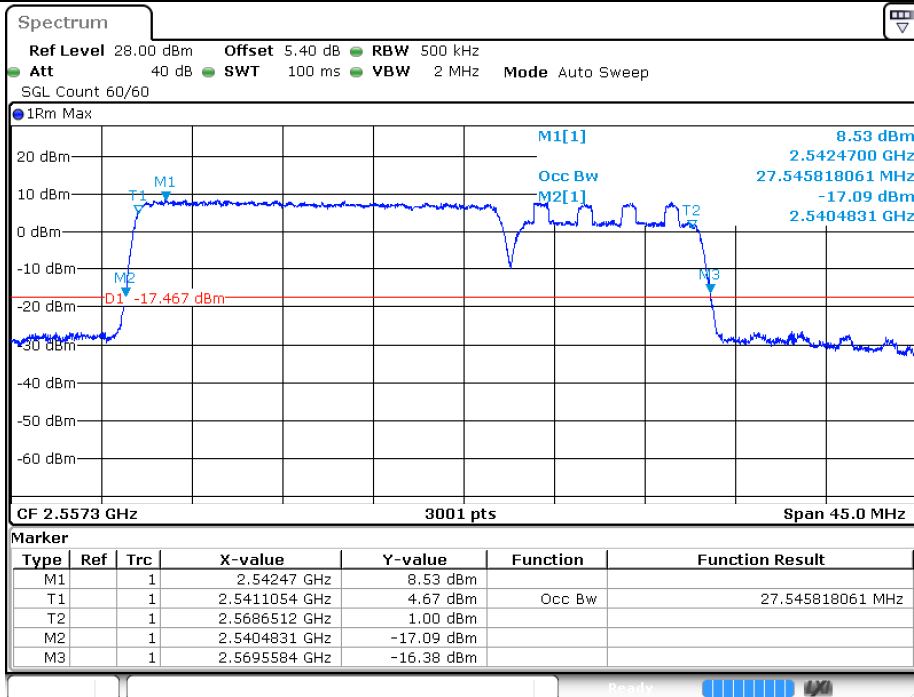
CA 7C 20+10 16QAM 21051+21195 100RB#0+50RB#0



Date: 24.DEC.2020 17:31:17

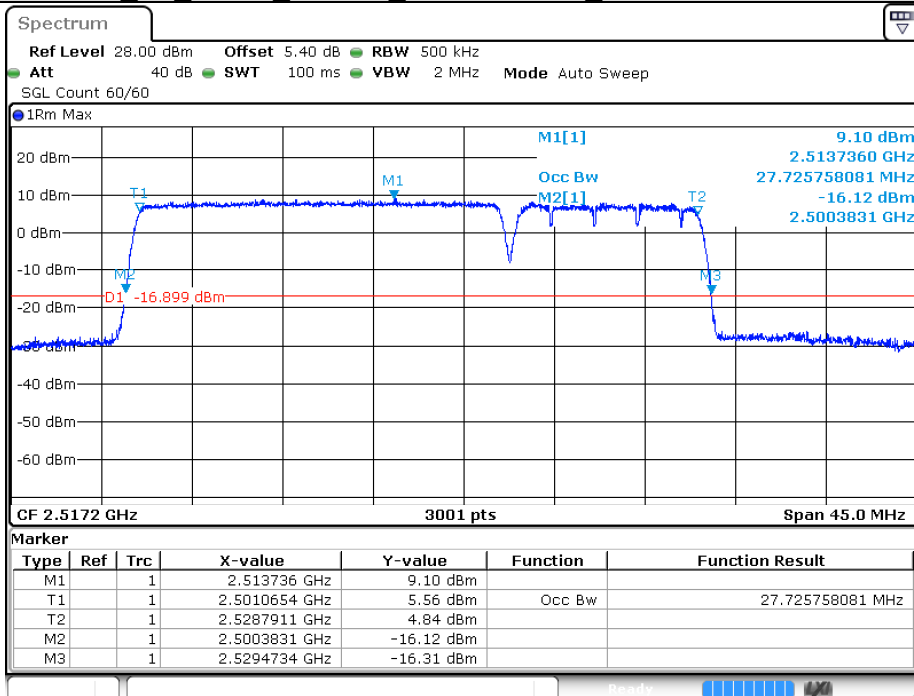


CA 7C 20+10 16QAM 21251+21395 100RB#0+50RB#0



Date: 24.DEC.2020 17:31:58

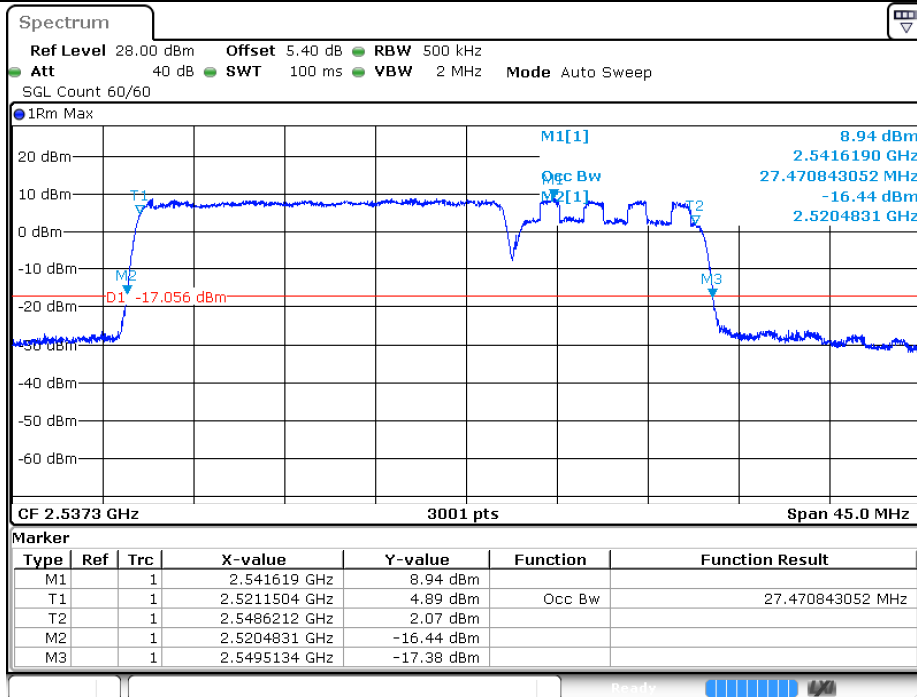
CA 7C 20+10 64QAM 20850+20994 100RB#0+50RB#0



Date: 24.DEC.2020 17:30:48

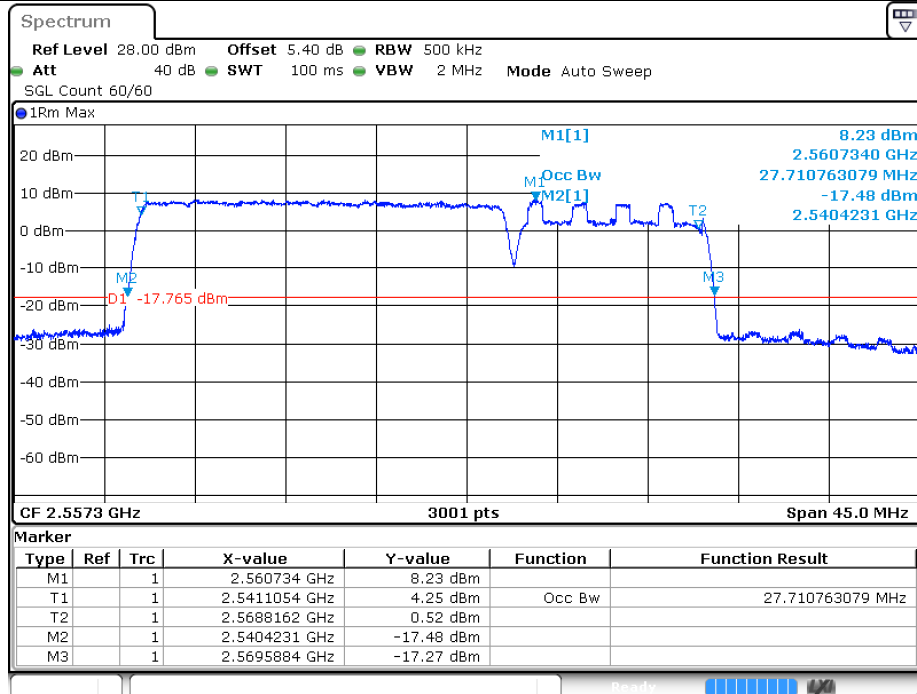


CA 7C 20+10 64QAM 21051+21195 100RB#0+50RB#0



Date: 24.DEC.2020 17:31:28

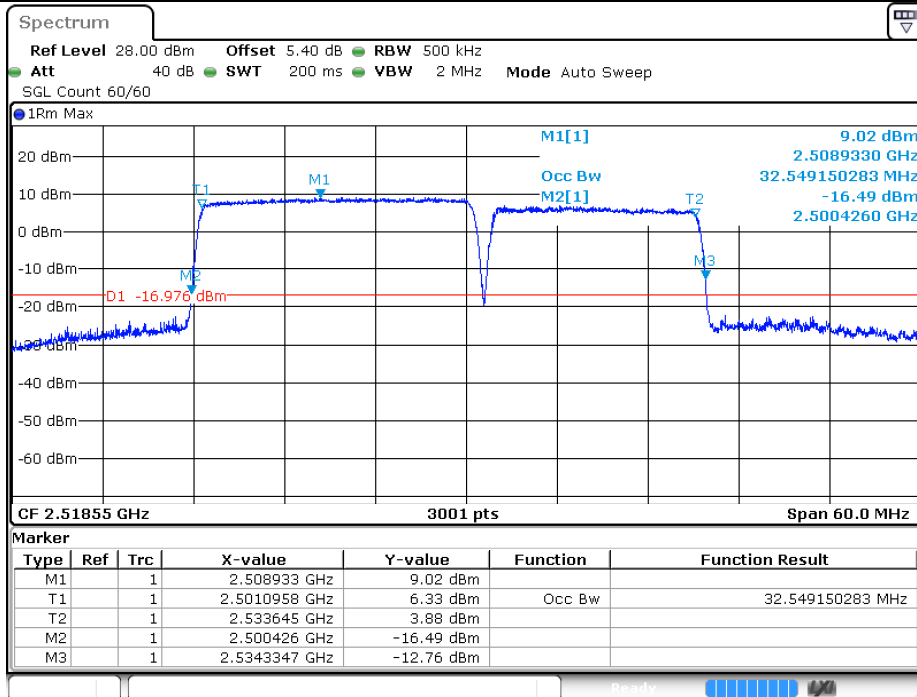
CA 7C 20+10 64QAM 21251+21395 100RB#0+50RB#0



Date: 24.DEC.2020 17:32:09

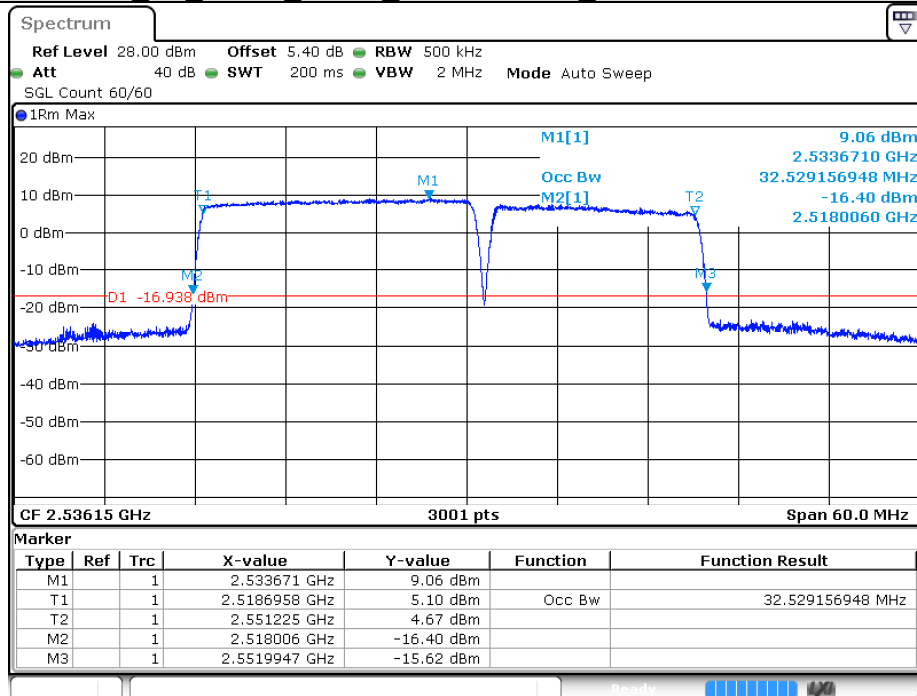


CA 7C 20+15 QPSK 20850+21021 100RB#0+75RB#0



Date: 24.DEC.2020 17:42:04

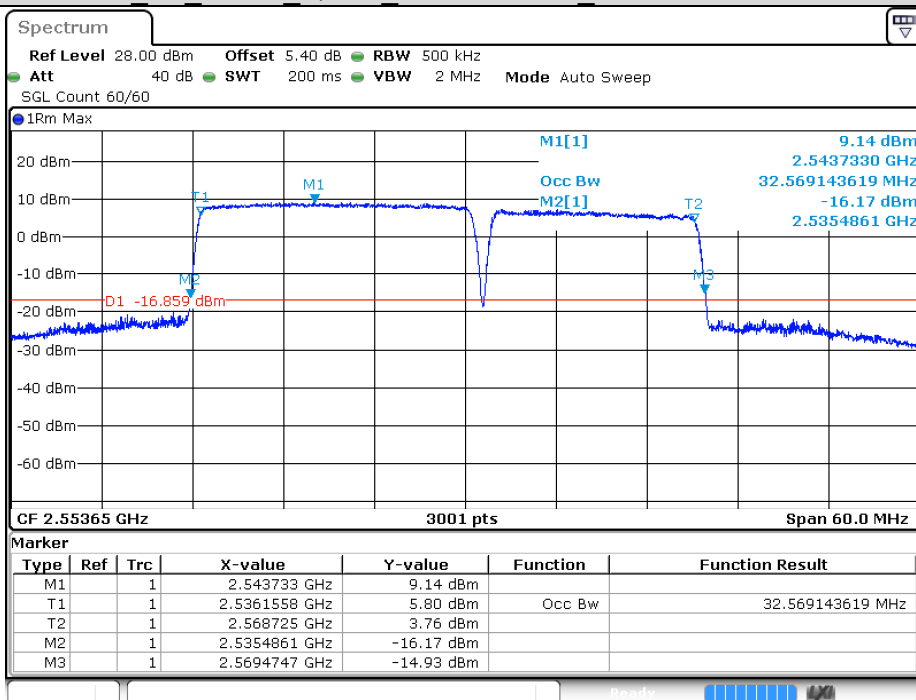
CA 7C 20+15 QPSK 21026+21197 100RB#0+75RB#0



Date: 24.DEC.2020 17:43:13

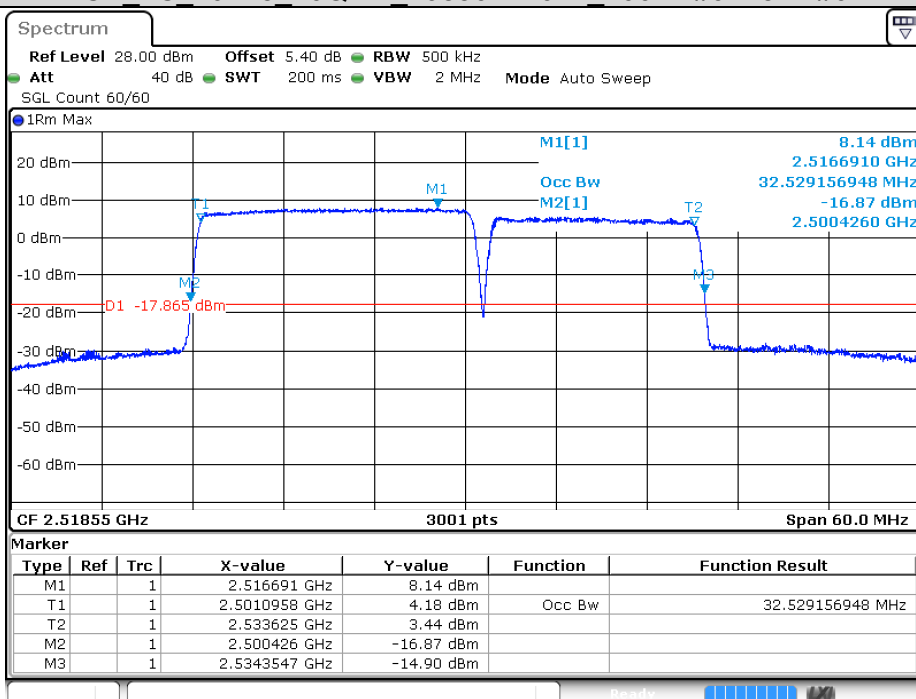


CA 7C 20+15 QPSK 21201+21372 100RB#0+75RB#0



Date: 24.DEC.2020 17:44:22

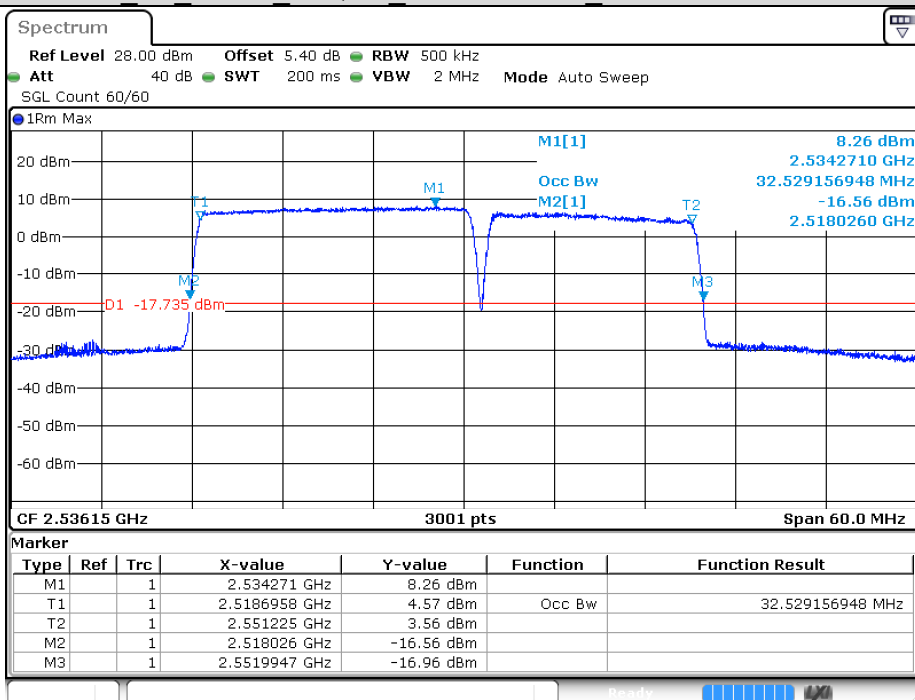
CA 7C 20+15 16QAM 20850+21021 100RB#0+75RB#0



Date: 24.DEC.2020 17:42:23

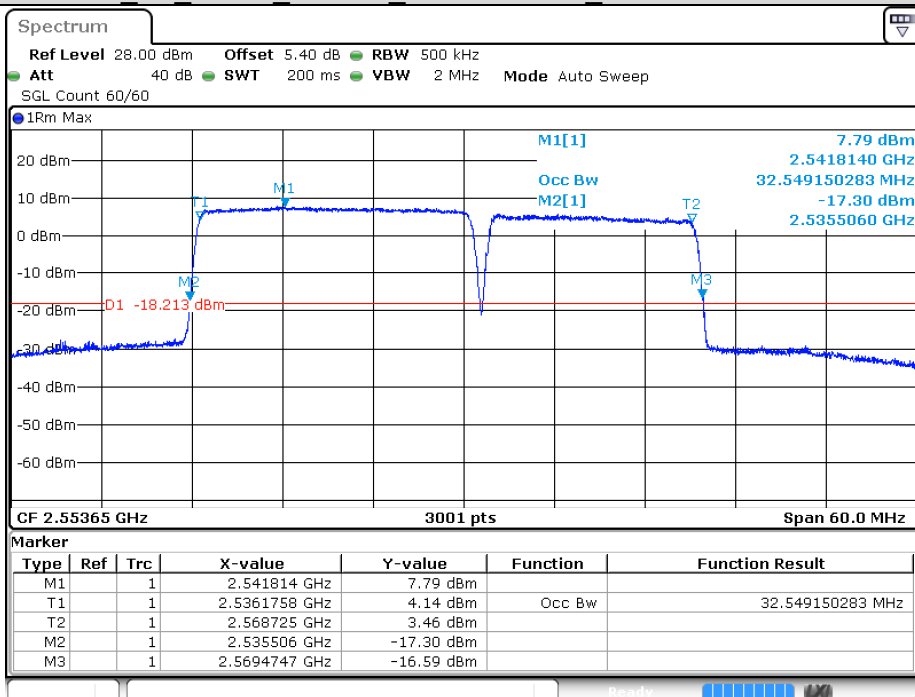


CA 7C 20+15 16QAM 21026+21197 100RB#0+75RB#0



Date: 24.DEC.2020 17:43:32

CA 7C 20+15 16QAM 21201+21372 100RB#0+75RB#0



Date: 24.DEC.2020 17:44:41



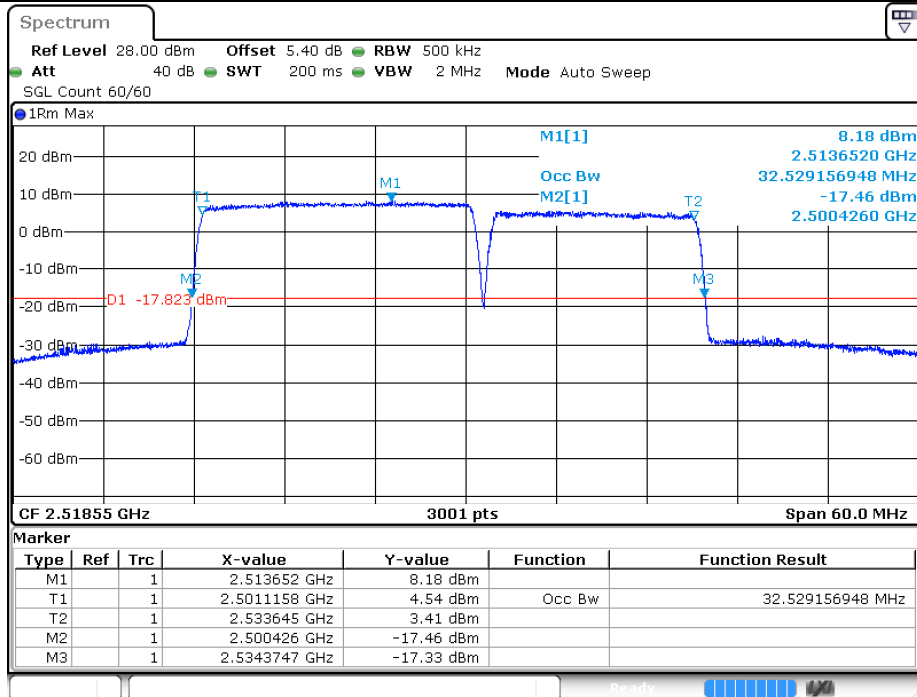
SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch (Internal Testing) Laboratory

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

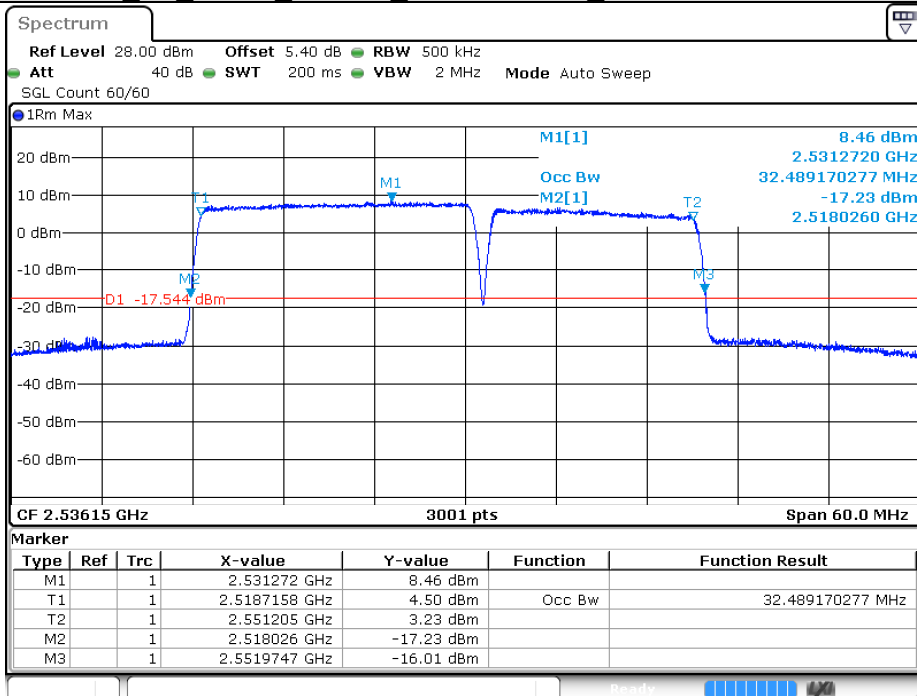
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

CA 7C 20+15 64QAM 20850+21021 100RB#0+75RB#0



Date: 24.DEC.2020 17:42:41

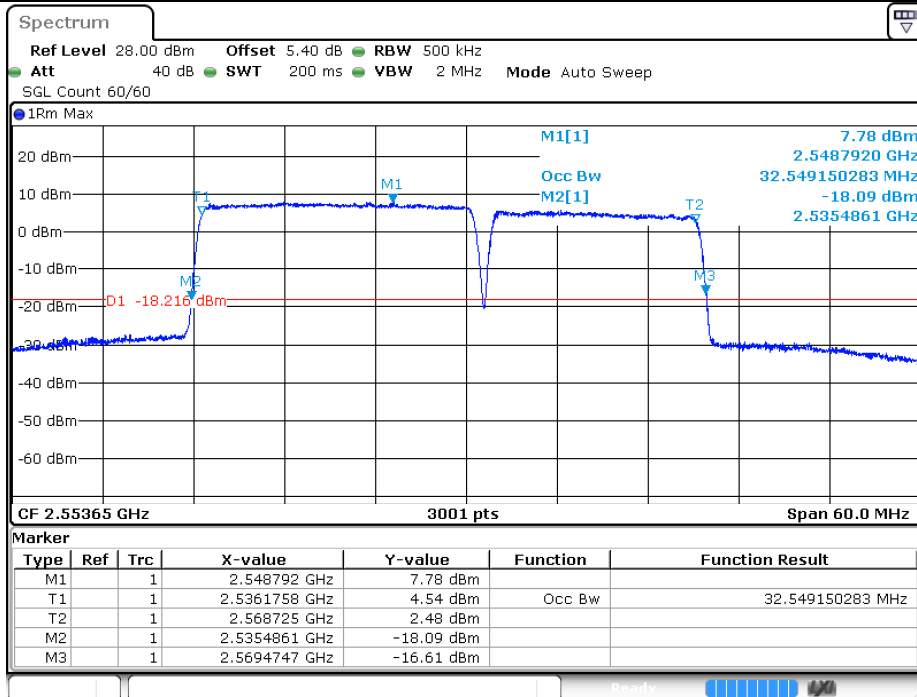
CA 7C 20+15 64QAM 21026+21197 100RB#0+75RB#0



Date: 24.DEC.2020 17:43:50

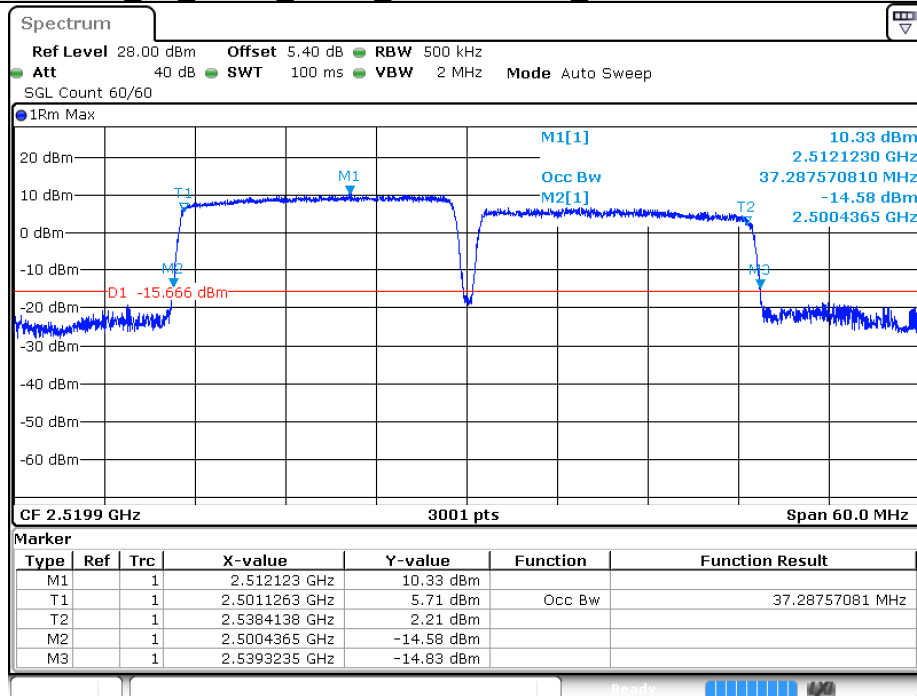


CA 7C 20+15 64QAM 21201+21372 100RB#0+75RB#0



Date: 24.DEC.2020 17:44:59

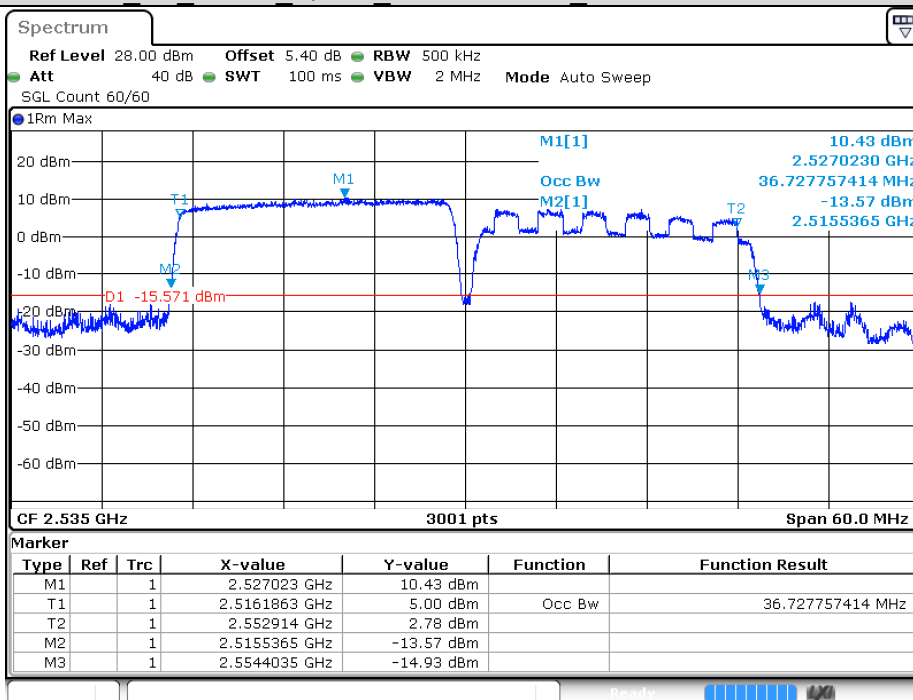
CA 7C 20+20 QPSK 20850+21048 100RB#0+100RB#0



Date: 24.DEC.2020 17:45:21

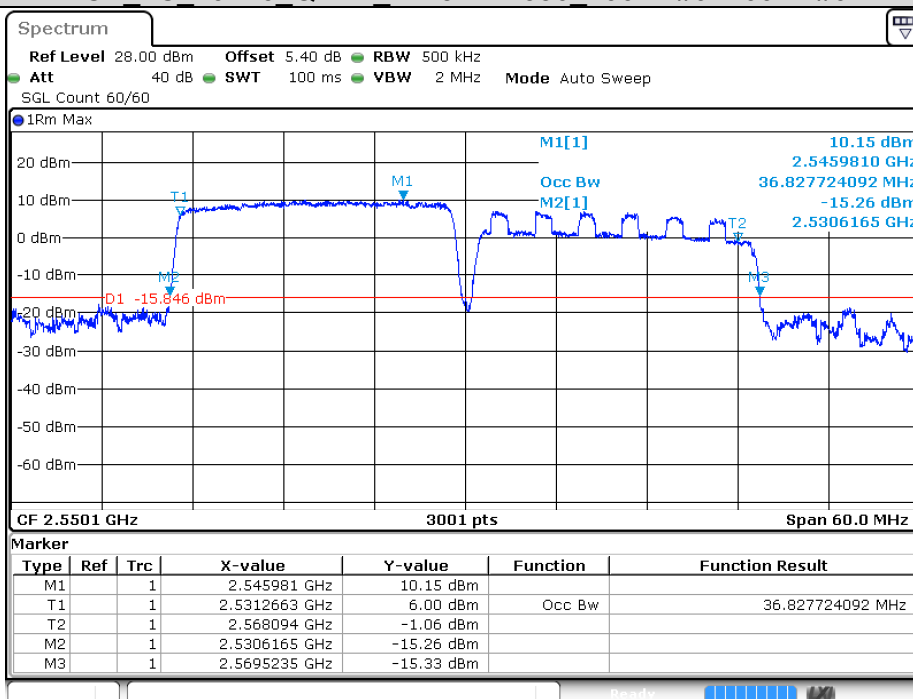


CA 7C 20+20 QPSK 21001+21199 100RB#0+100RB#0



Date: 24.DEC.2020 17:46:02

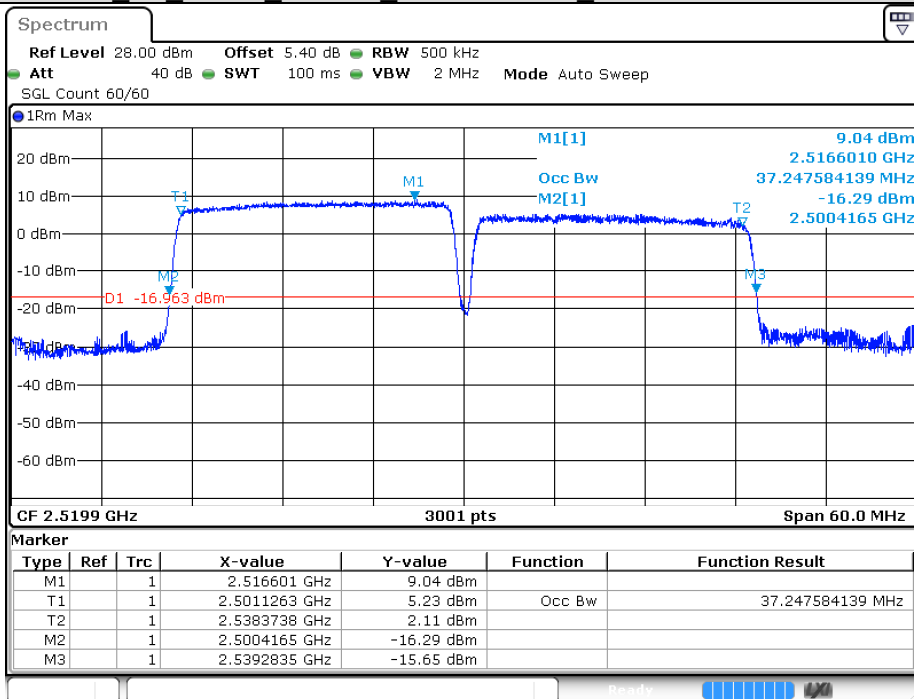
CA 7C 20+20 QPSK 21152+21350 100RB#0+100RB#0



Date: 24.DEC.2020 17:46:42

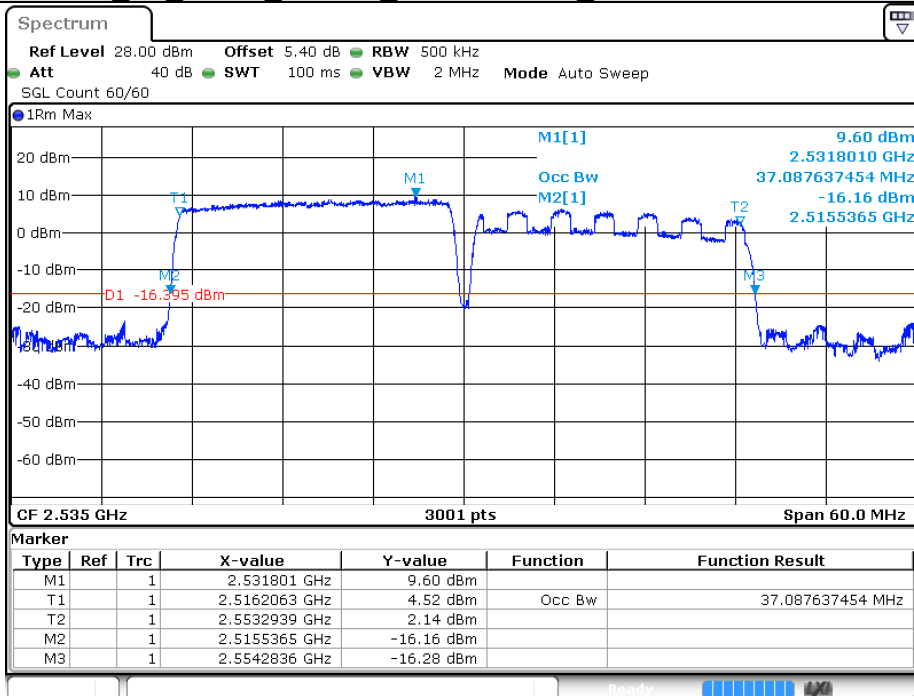


CA 7C 20+20 16QAM 20850+21048 100RB#0+100RB#0



Date: 24.DEC.2020 17:45:32

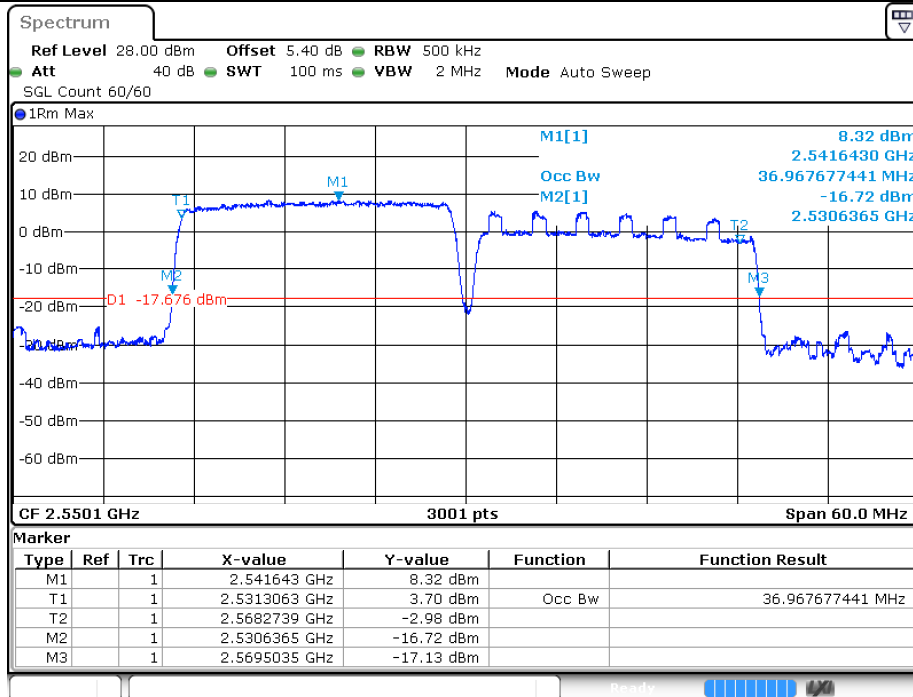
CA 7C 20+20 16QAM 21001+21199 100RB#0+100RB#0



Date: 24.DEC.2020 17:46:13

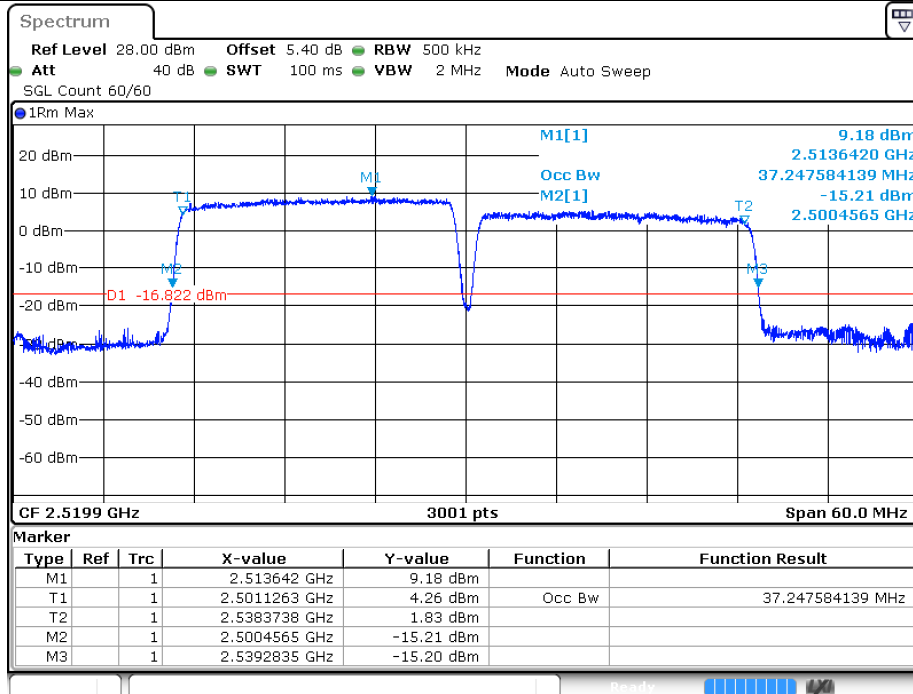


CA 7C 20+20 16QAM 21152+21350 100RB#0+100RB#0



Date: 24.DEC.2020 17:46:54

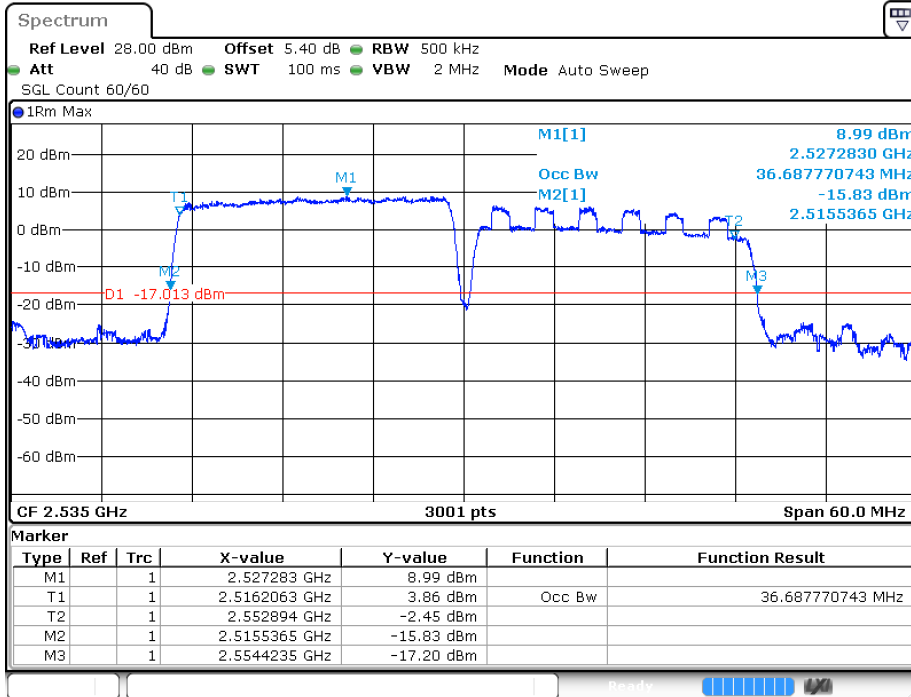
CA 7C 20+20 64QAM 20850+21048 100RB#0+100RB#0



Date: 24.DEC.2020 17:45:44

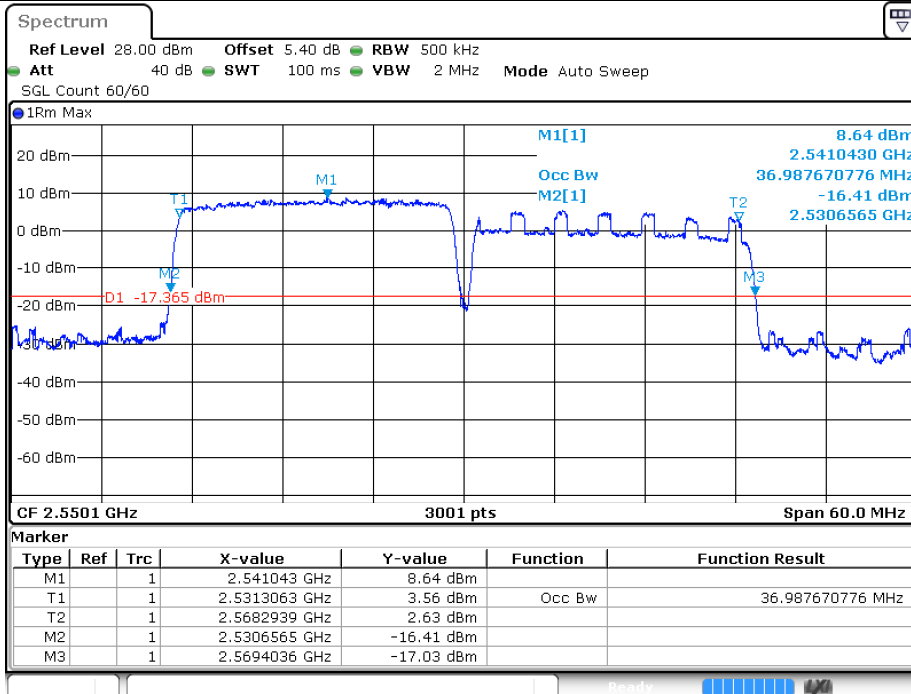


CA 7C 20+20 64QAM 21001+21199 100RB#0+100RB#0



Date: 24.DEC.2020 17:46:24

CA 7C 20+20 64QAM 21152+21350 100RB#0+100RB#0



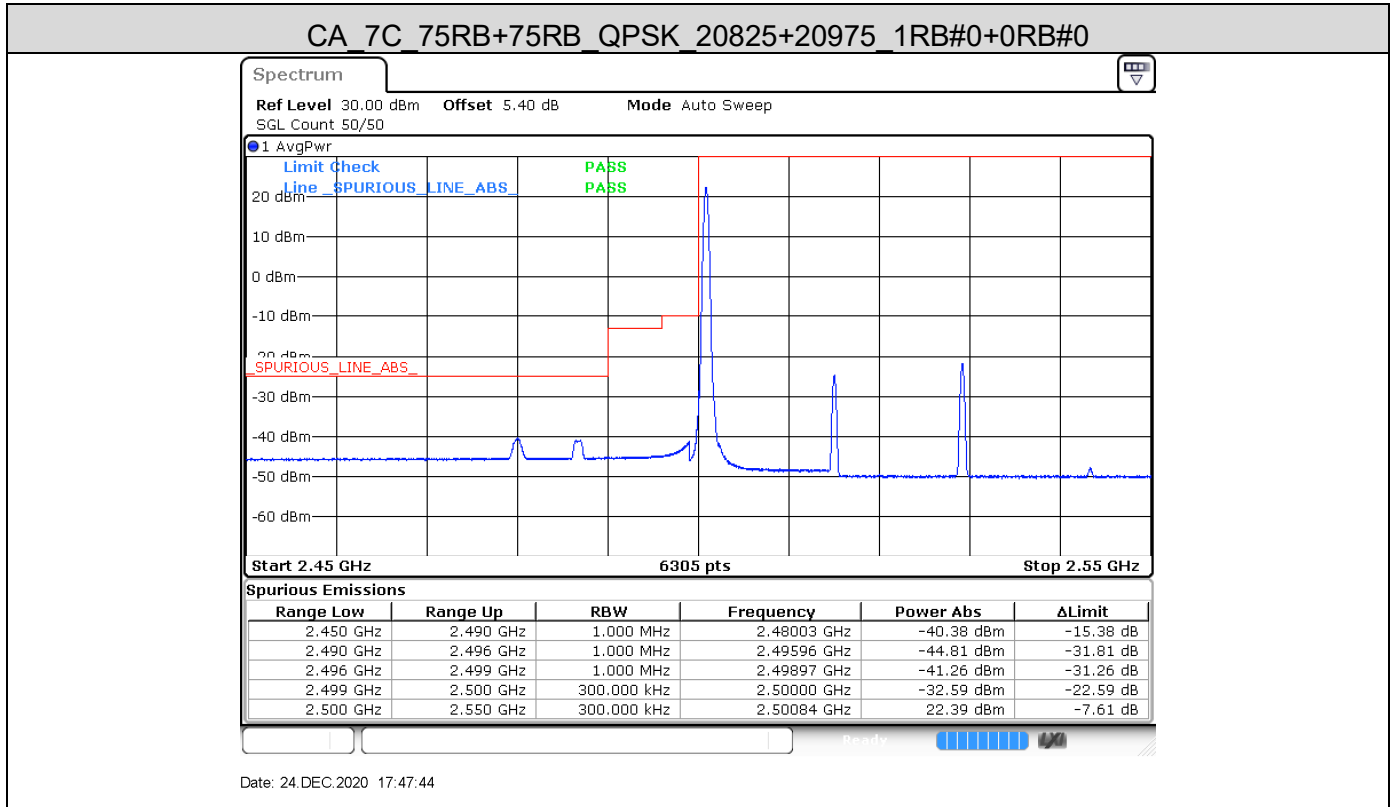
Date: 24.DEC.2020 17:47:05



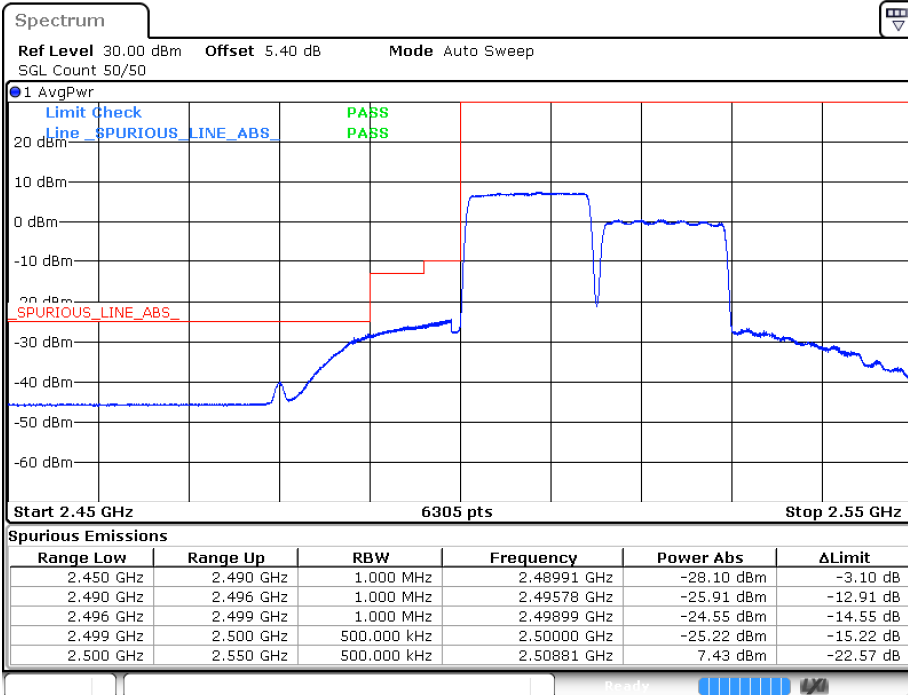
5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE Band CA_7C

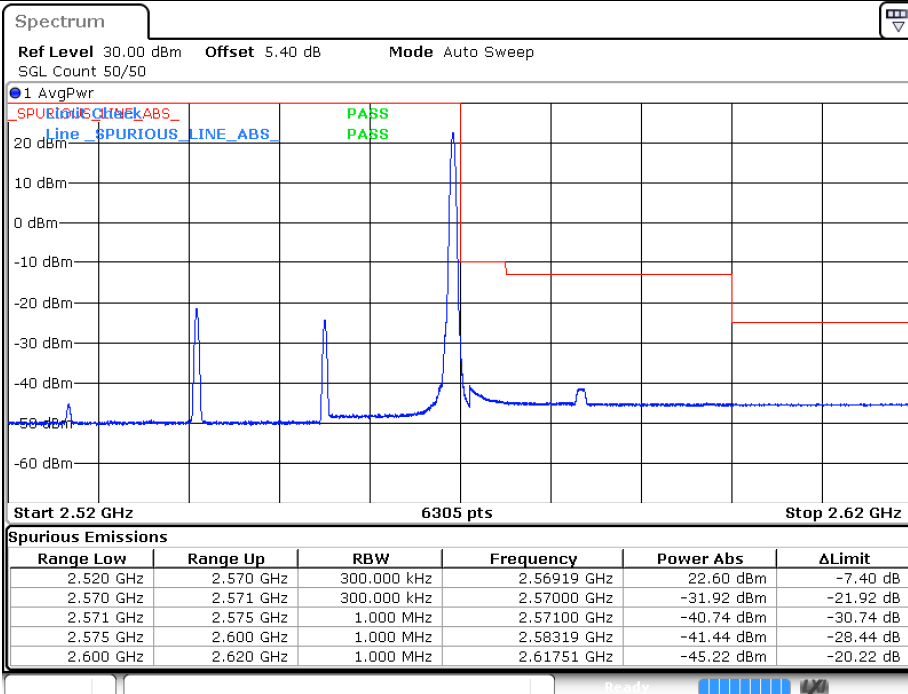


CA 7C 75RB+75RB QPSK 20825+20975 75RB#0+75RB#0



Date: 24.DEC.2020 17:49:17

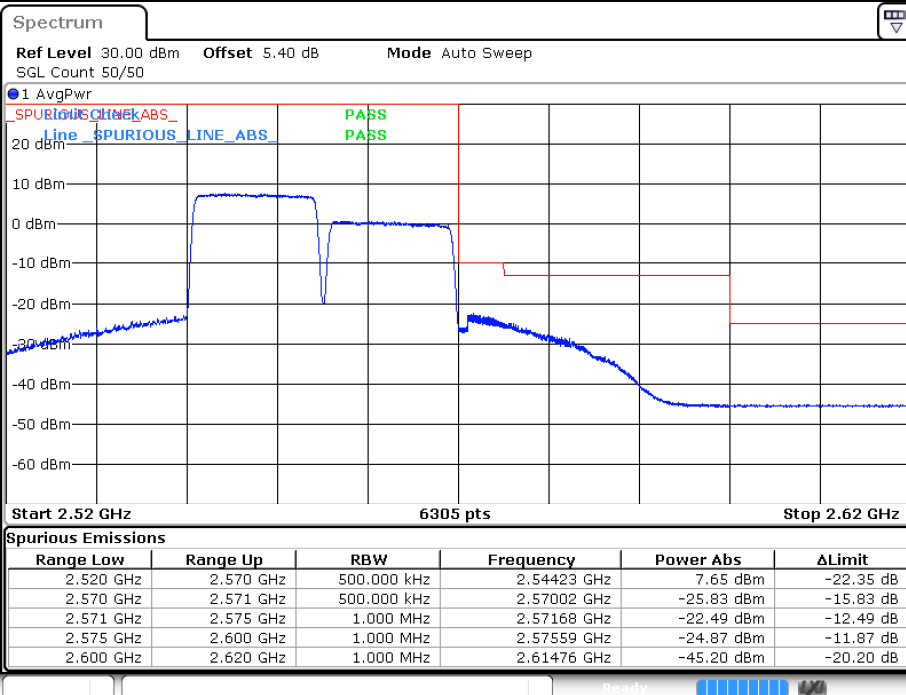
CA 7C 75RB+75RB QPSK 21225+21375 0RB#0+1RB#74



Date: 24.DEC.2020 17:50:39

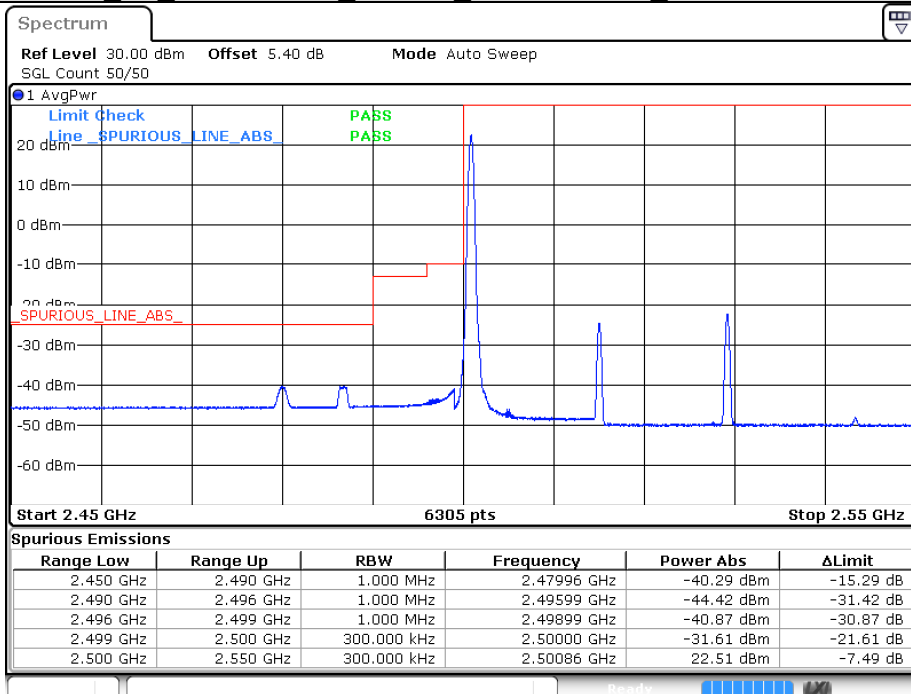


CA 7C 75RB+75RB QPSK 21225+21375 75RB#0+75RB#0



Date: 24.DEC.2020 17:51:34

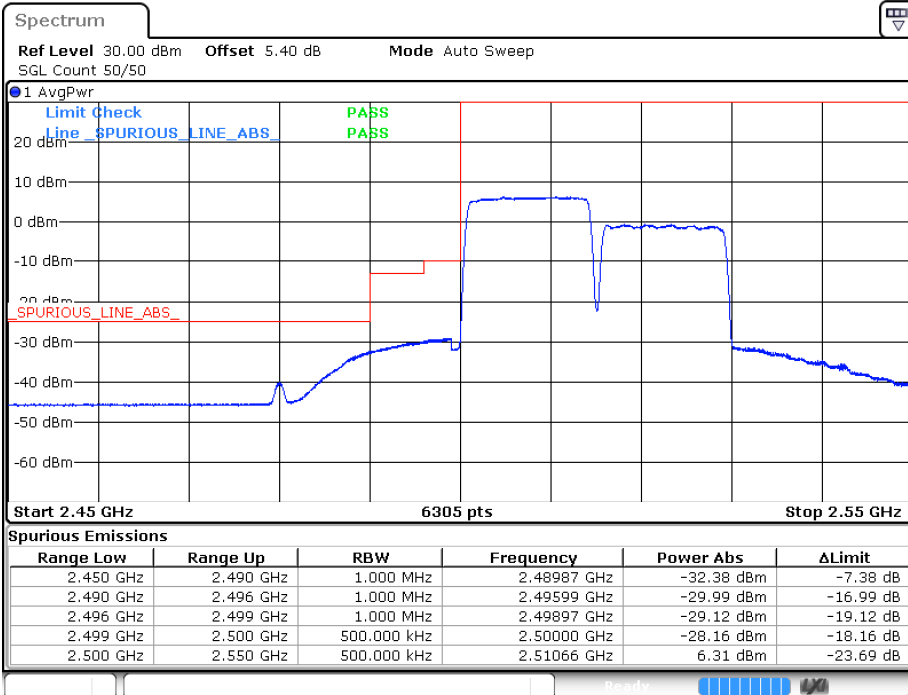
CA 7C 75RB+75RB 16QAM 20825+20975 1RB#0+0RB#0



Date: 24.DEC.2020 17:48:13

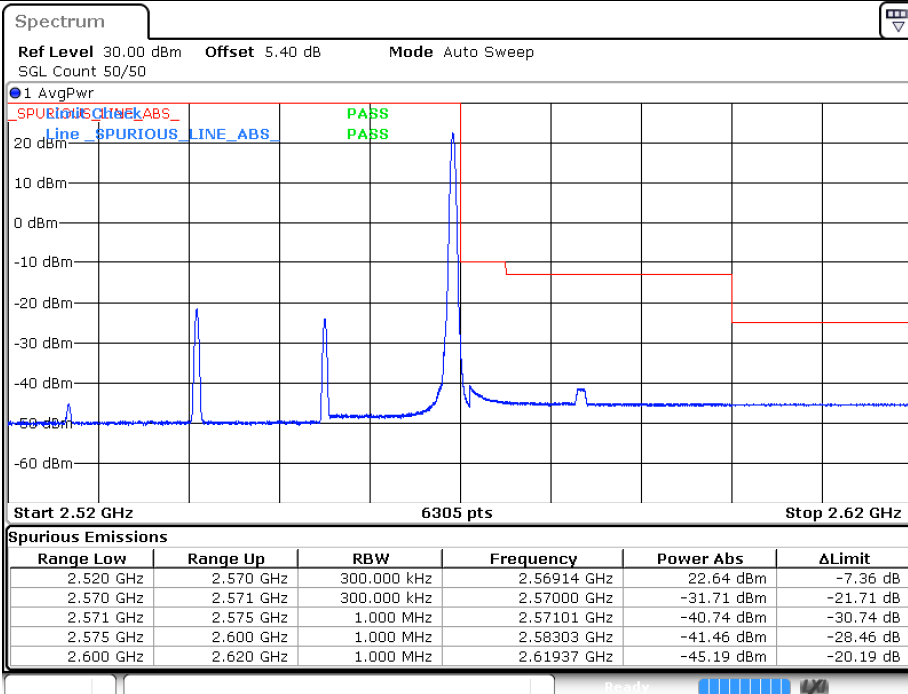


CA 7C 75RB+75RB 16QAM 20825+20975 75RB#0+75RB#0



Date: 24.DEC.2020 17:49:45

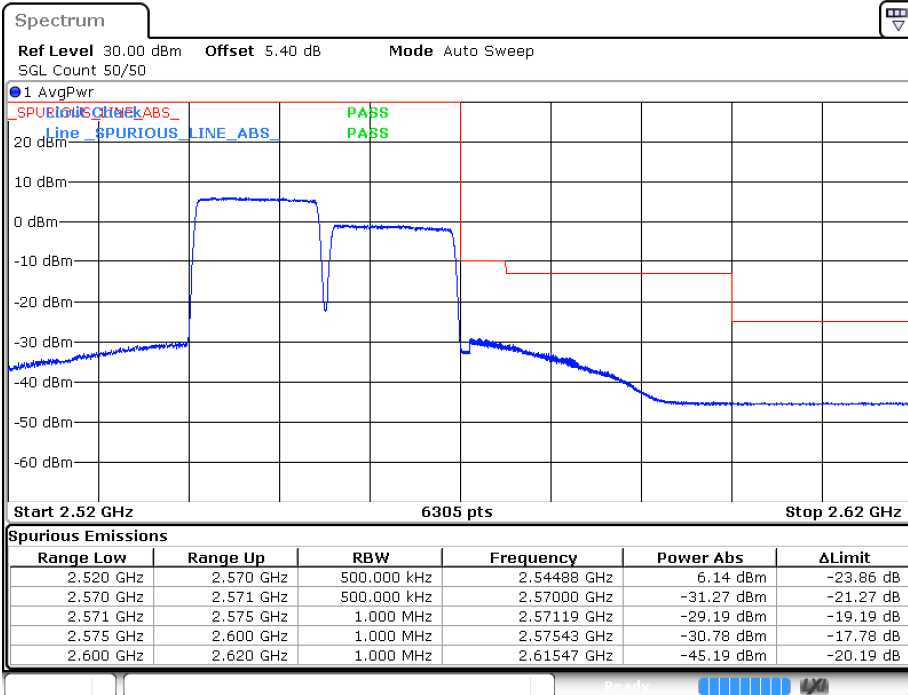
CA 7C 75RB+75RB 16QAM 21225+21375 0RB#0+1RB#74



Date: 24.DEC.2020 17:50:54

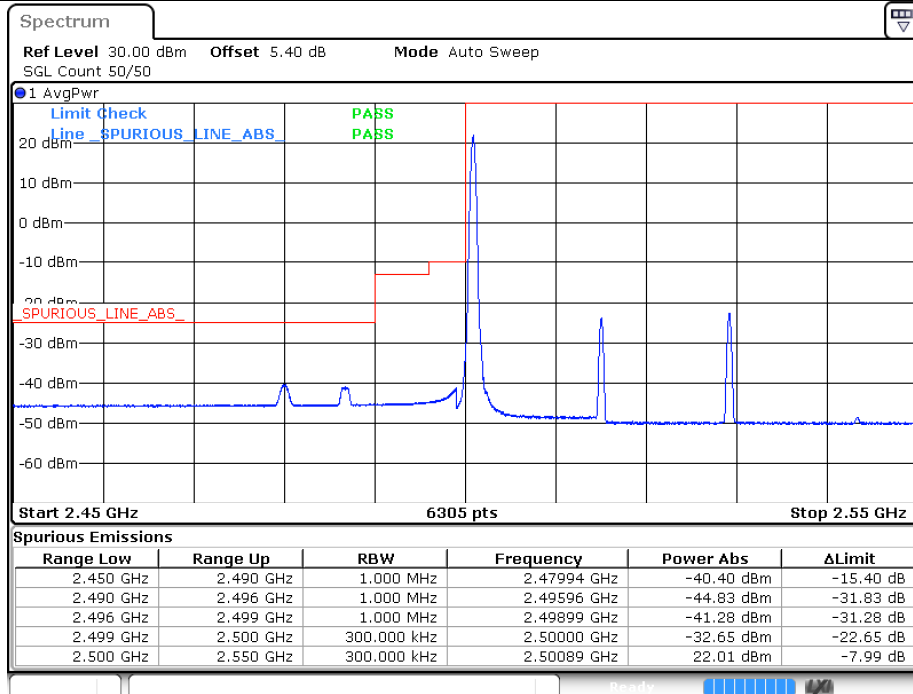


CA 7C 75RB+75RB 16QAM 21225+21375 75RB#0+75RB#0



Date: 24.DEC.2020 17:51:50

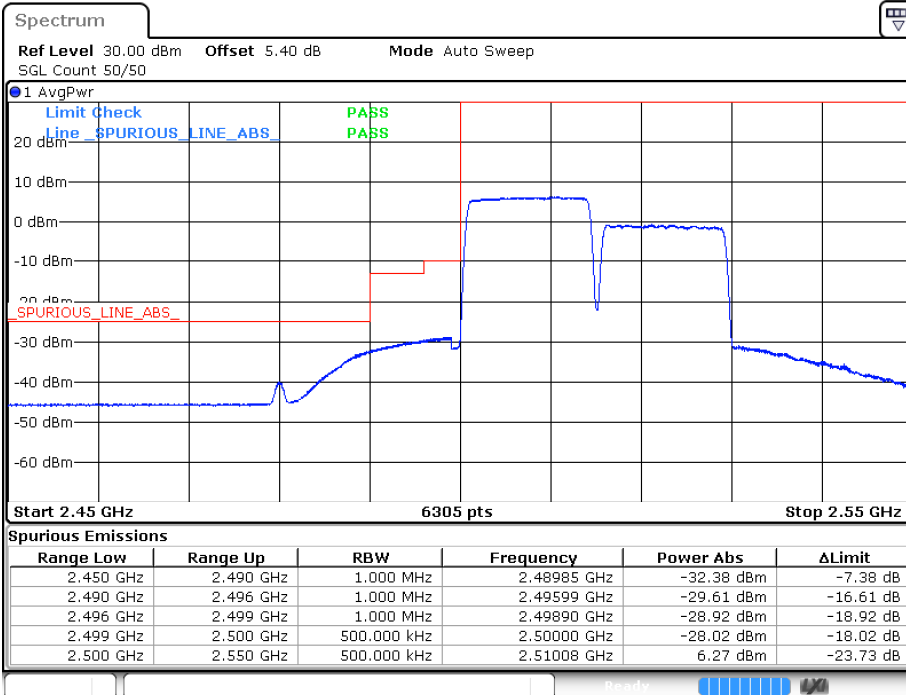
CA 7C 75RB+75RB 64QAM 20825+20975 1RB#0+0RB#0



Date: 24.DEC.2020 17:48:41

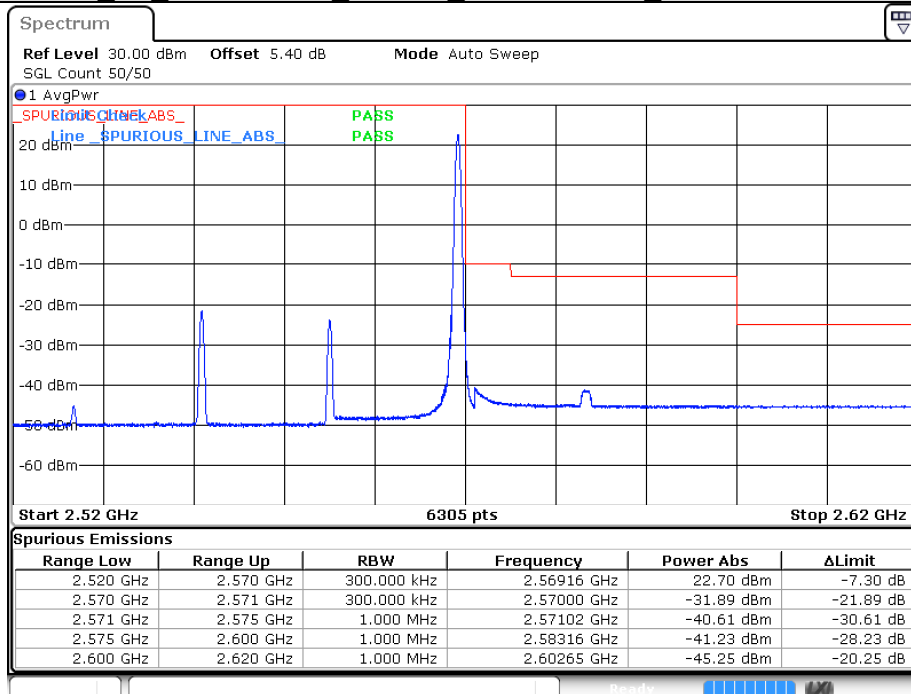


CA 7C 75RB+75RB 64QAM 20825+20975 75RB#0+75RB#0



Date: 24.DEC.2020 17:50:14

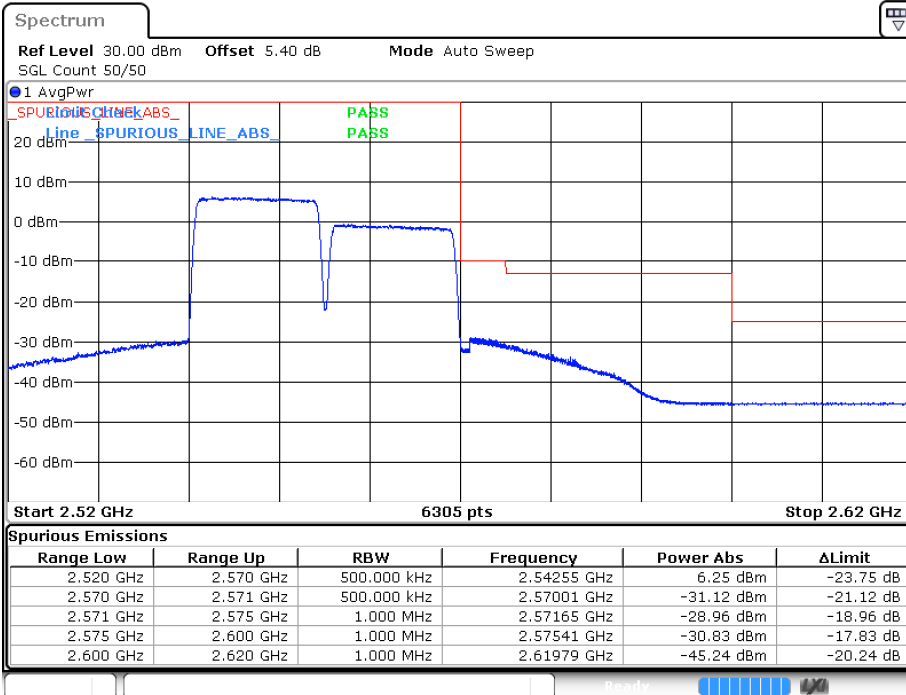
CA 7C 75RB+75RB 64QAM 21225+21375 0RB#0+1RB#74



Date: 24.DEC.2020 17:51:09

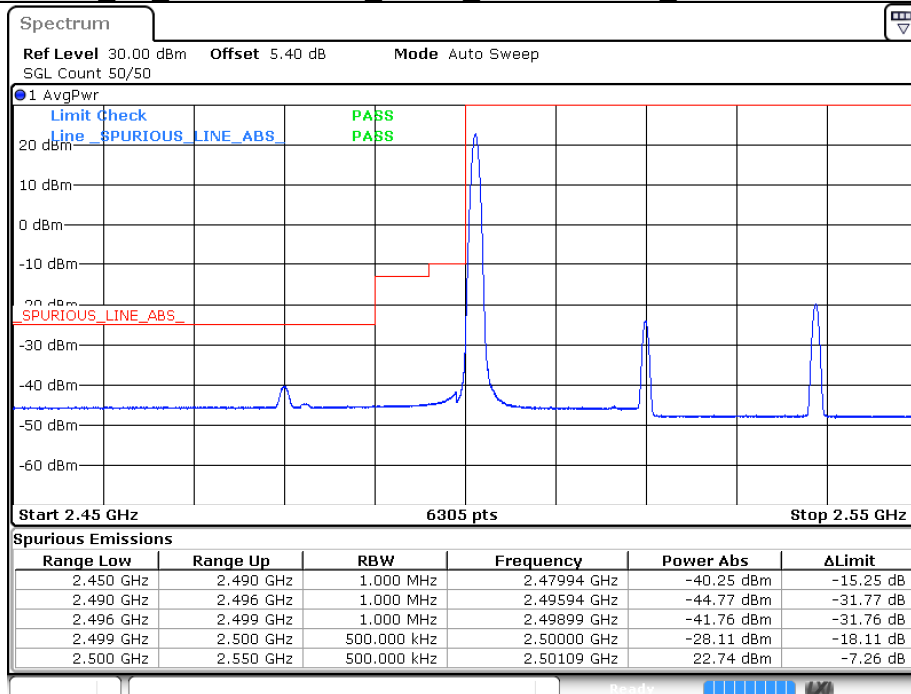


CA 7C 75RB+75RB 64QAM 21225+21375 75RB#0+75RB#0



Date: 24.DEC.2020 17:52:05

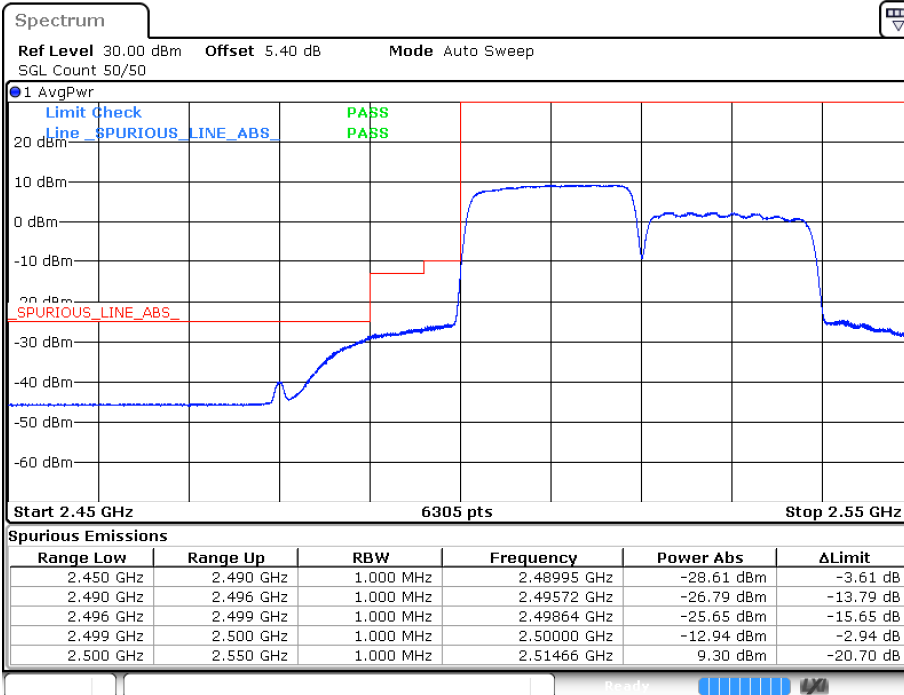
CA 7C 100RB+100RB QPSK 20850+21048 1RB#0+0RB#0



Date: 24.DEC.2020 17:52:43

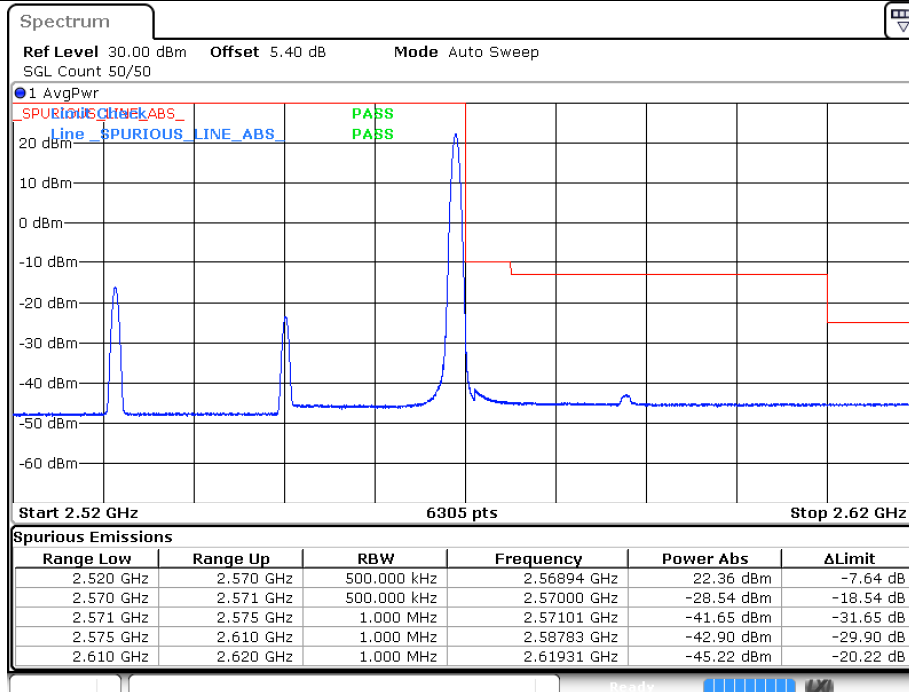


CA 7C 100RB+100RB QPSK 20850+21048 100RB#0+100RB#0



Date: 24.DEC.2020 17:54:18

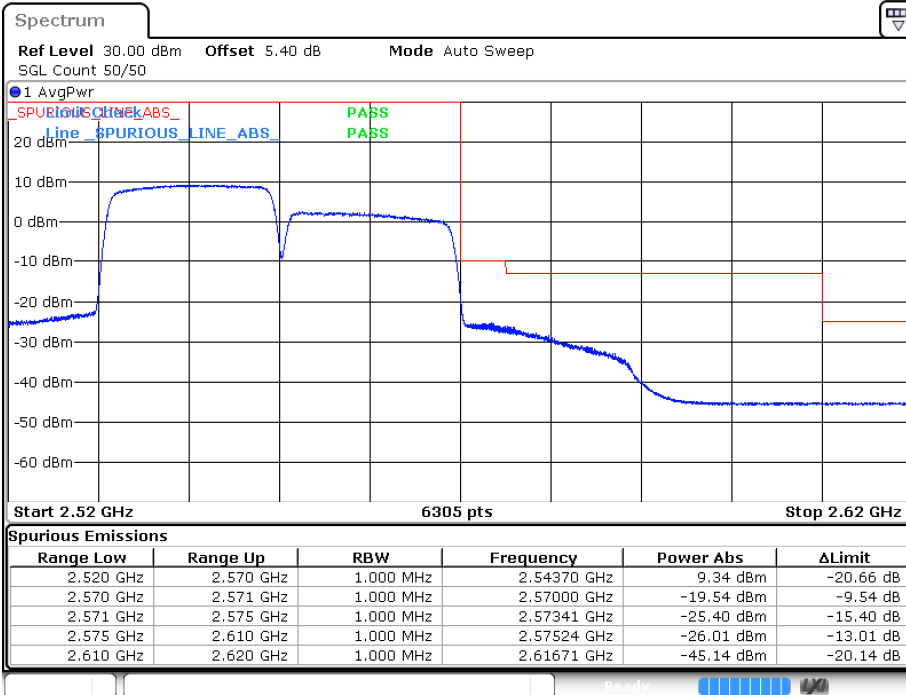
CA 7C 100RB+100RB QPSK 21152+21350 0RB#0+1RB#99



Date: 24.DEC.2020 17:55:39

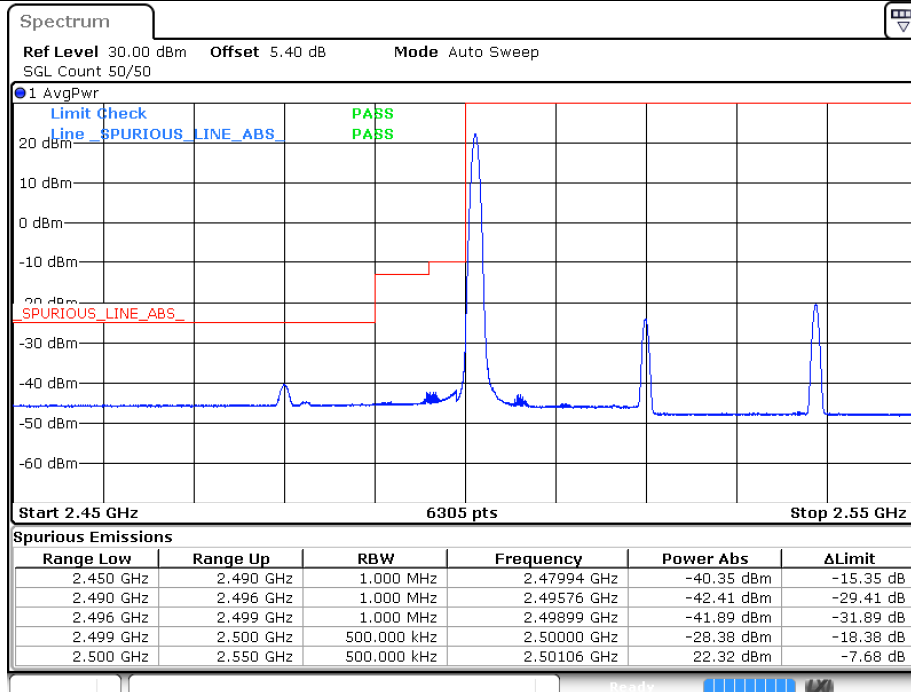


CA 7C 100RB+100RB QPSK 21152+21350 100RB#0+100RB#0



Date: 24.DEC.2020 17:56:32

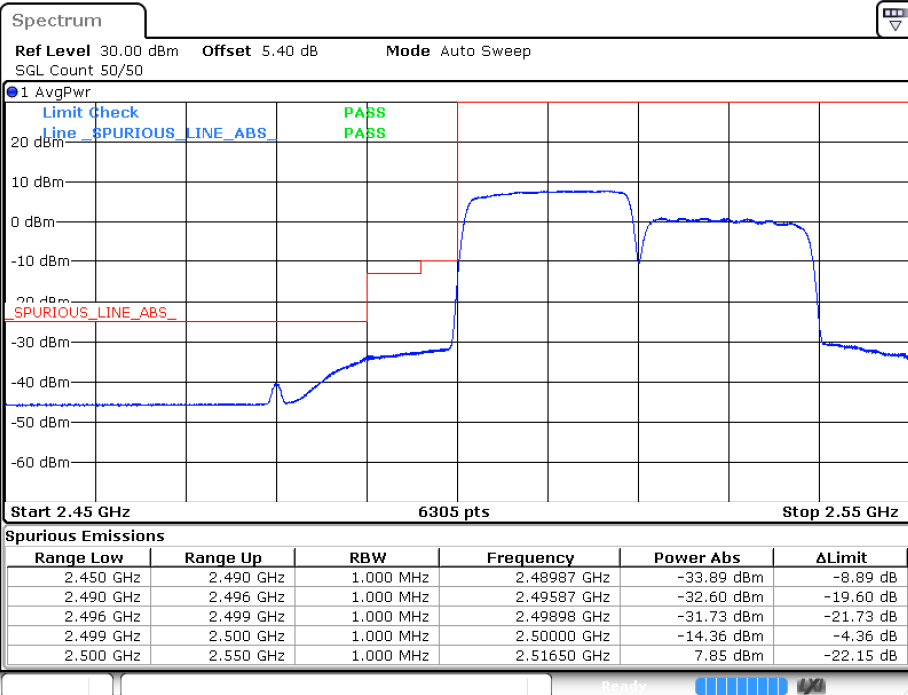
CA 7C 100RB+100RB 16QAM 20850+21048 1RB#0+0RB#0



Date: 24.DEC.2020 17:53:11

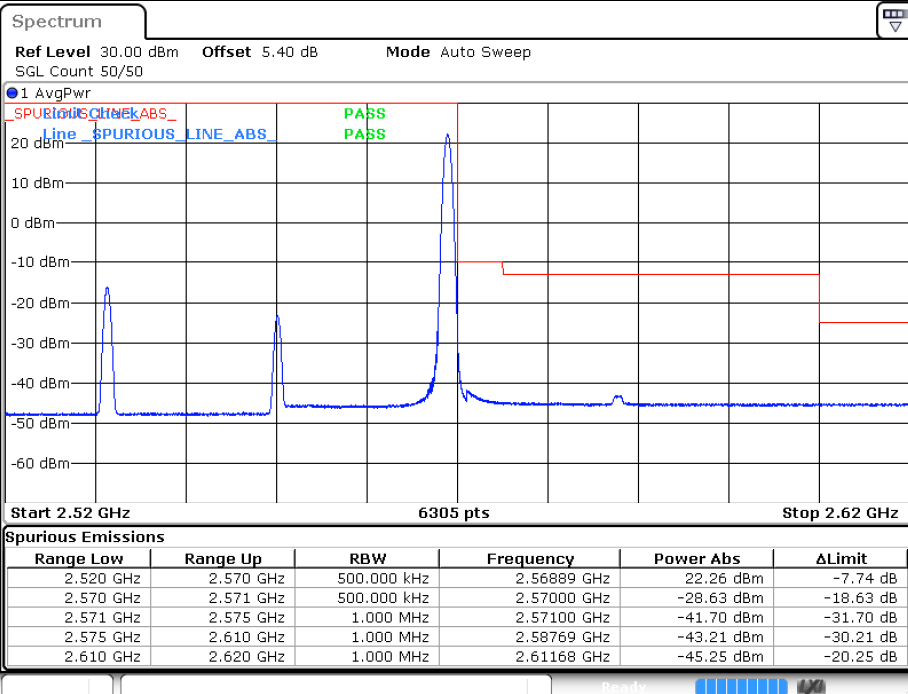


CA 7C 100RB+100RB 16QAM 20850+21048 100RB#0+100RB#0



Date: 24.DEC.2020 17:54:46

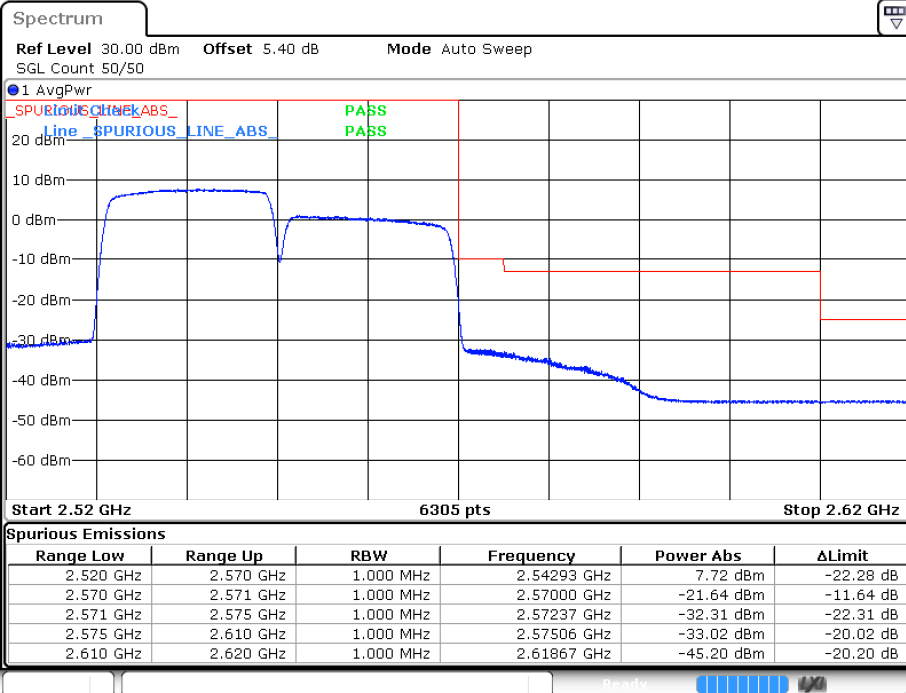
CA 7C 100RB+100RB 16QAM 21152+21350 0RB#0+1RB#99



Date: 24.DEC.2020 17:55:55

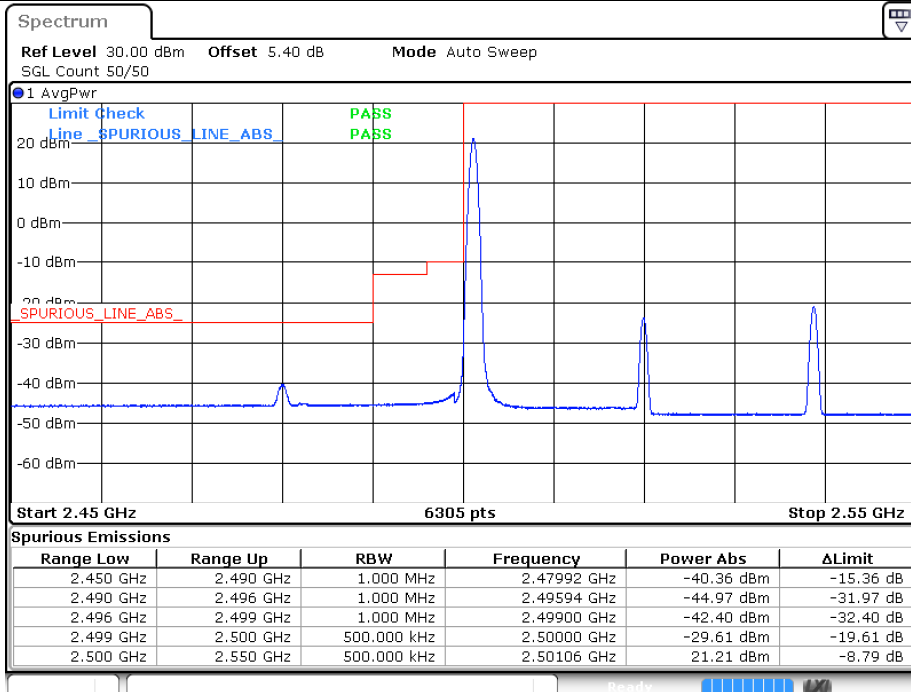


CA 7C 100RB+100RB 16QAM 21152+21350 100RB#0+100RB#0



Date: 24.DEC.2020 17:56:47

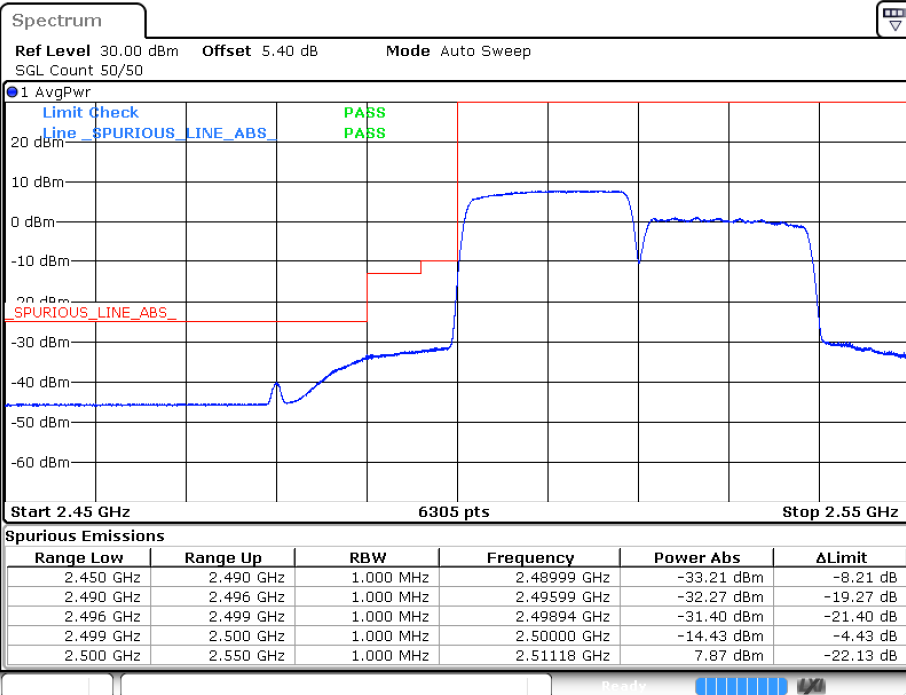
CA 7C 100RB+100RB 64QAM 20850+21048 1RB#0+0RB#0



Date: 24.DEC.2020 17:53:40

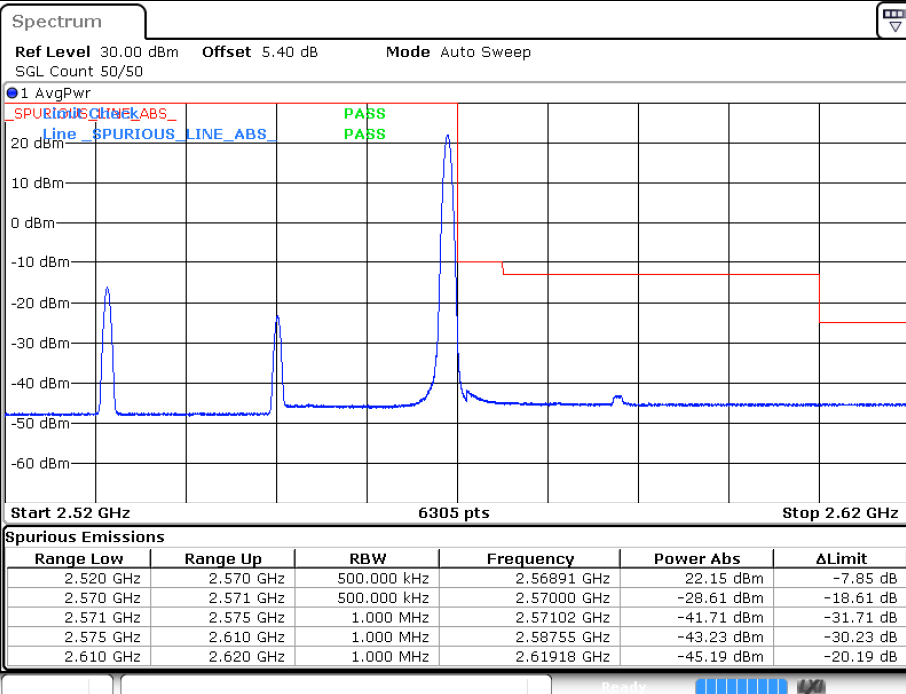


CA 7C 100RB+100RB 64QAM 20850+21048 100RB#0+100RB#0



Date: 24.DEC.2020 17:55:15

CA 7C 100RB+100RB 64QAM 21152+21350 0RB#0+1RB#99

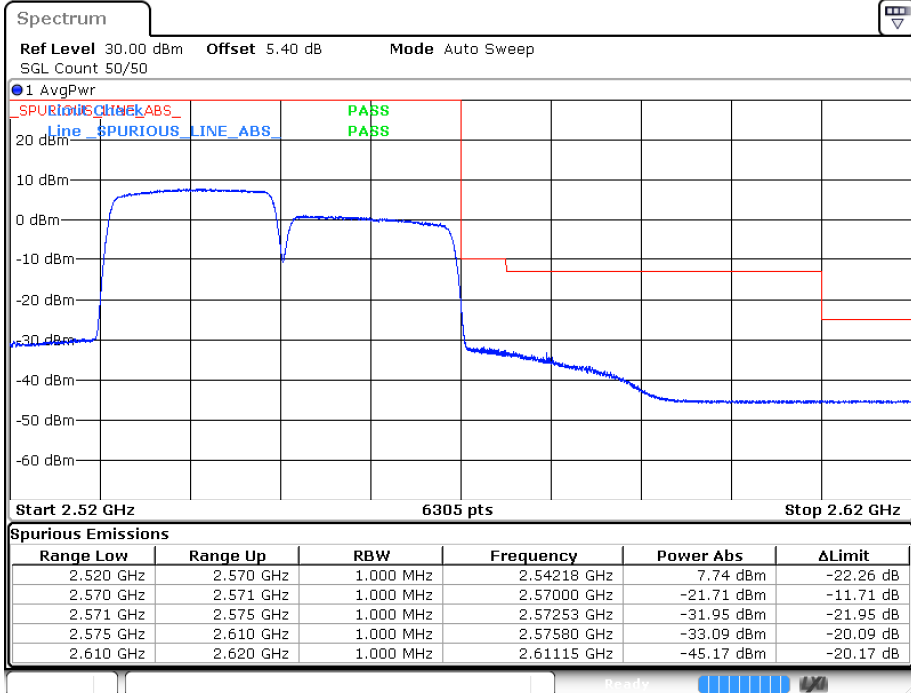


Date: 24.DEC.2020 17:56:10





CA_7C_100RB+100RB_64QAM_21152+21350_100RB#0+100RB#0



Date: 24.DEC.2020 17:57:03



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-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

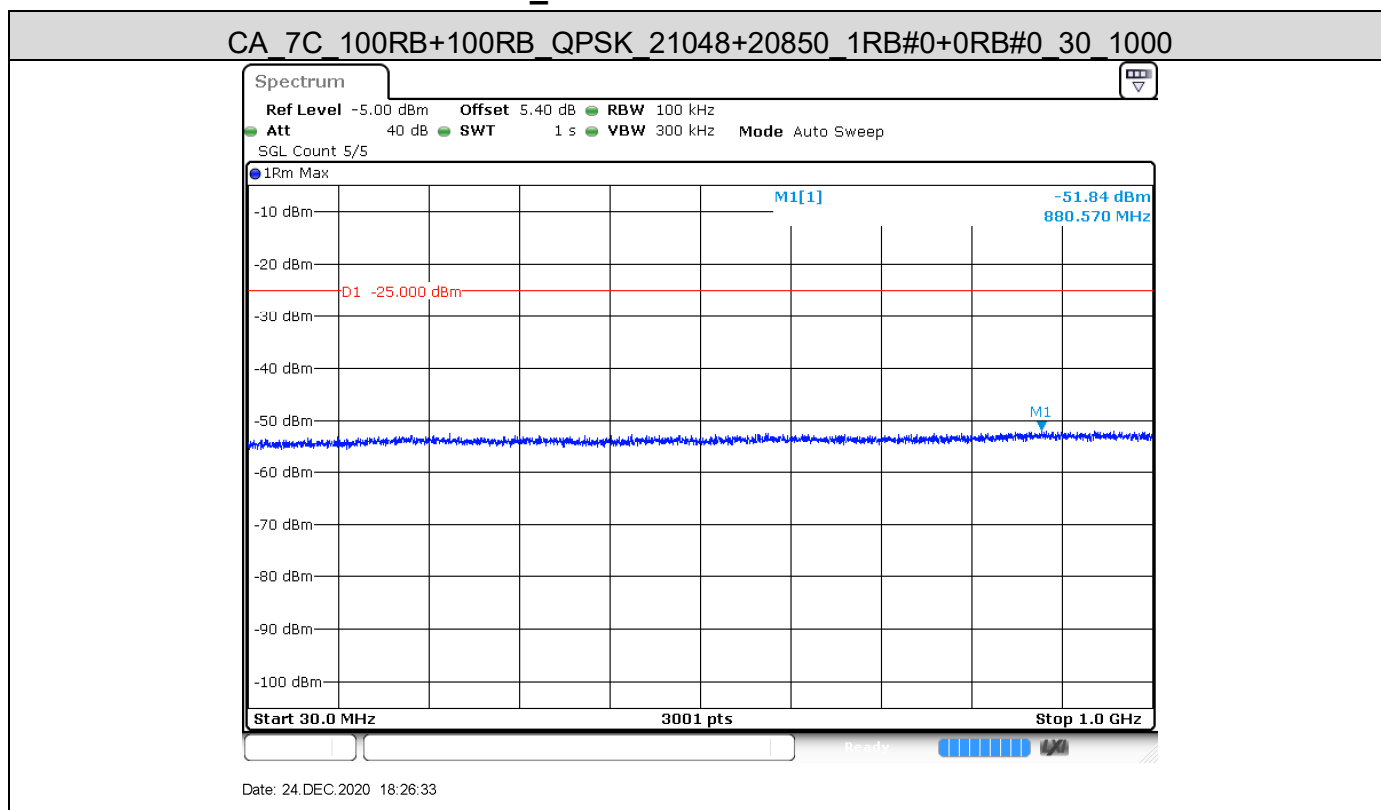
6 Spurious Emission at Antenna Terminal

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 = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

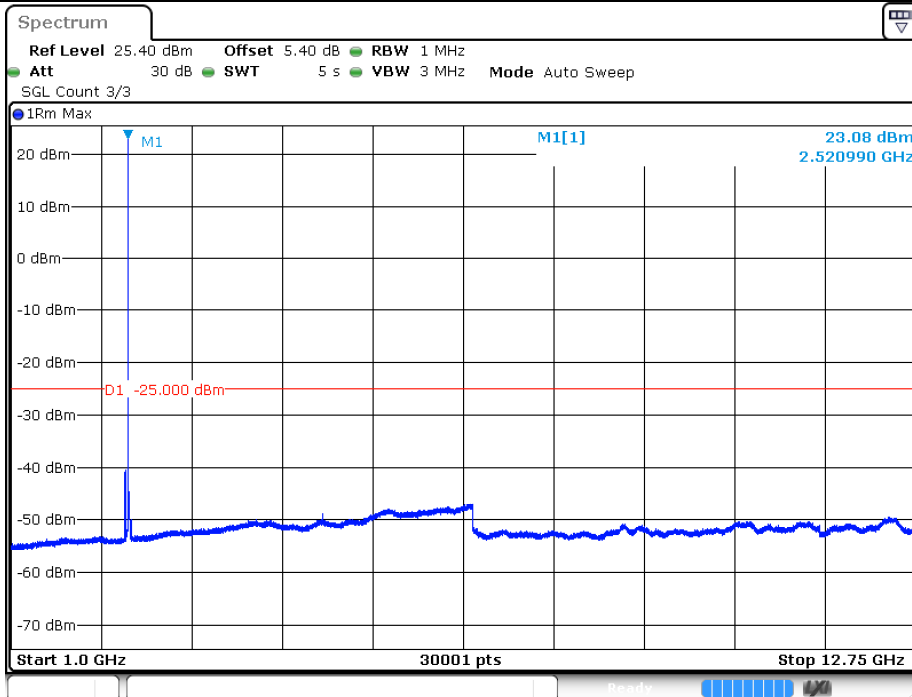
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE Band CA_7C

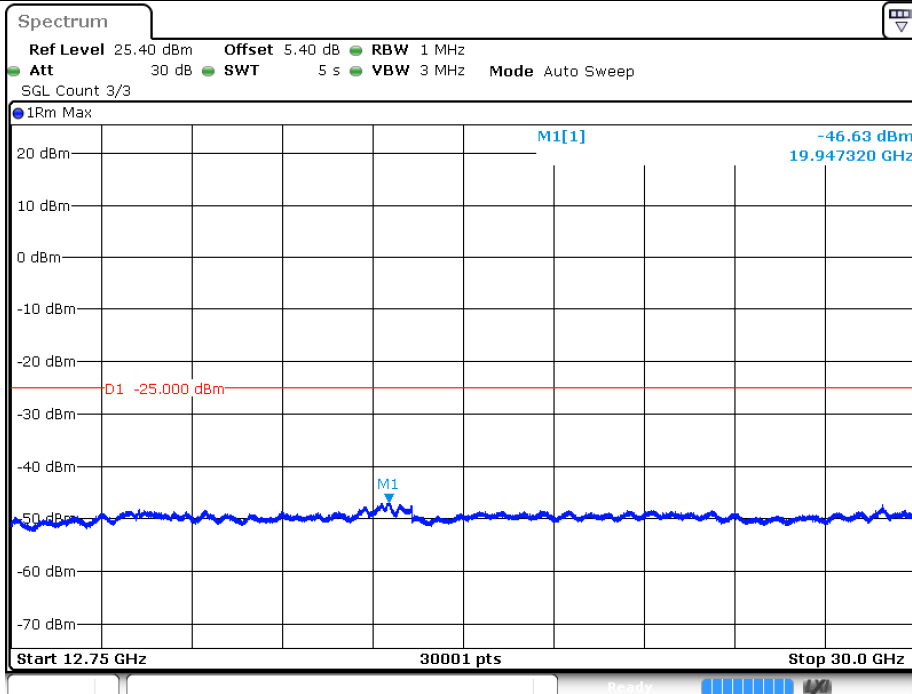


CA 7C 100RB+100RB QPSK 21048+20850 1RB#0+0RB#0 1000 12750



Date: 24.DEC.2020 18:30:05

CA 7C 100RB+100RB QPSK 21048+20850 1RB#0+0RB#0 12750 30000



Date: 24.DEC.2020 18:39:36



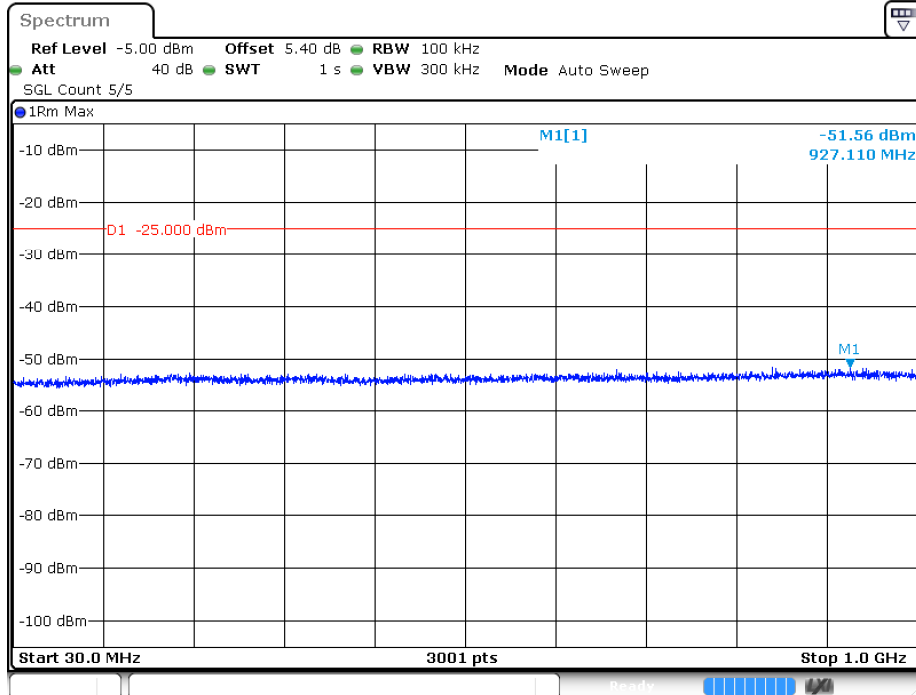
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

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

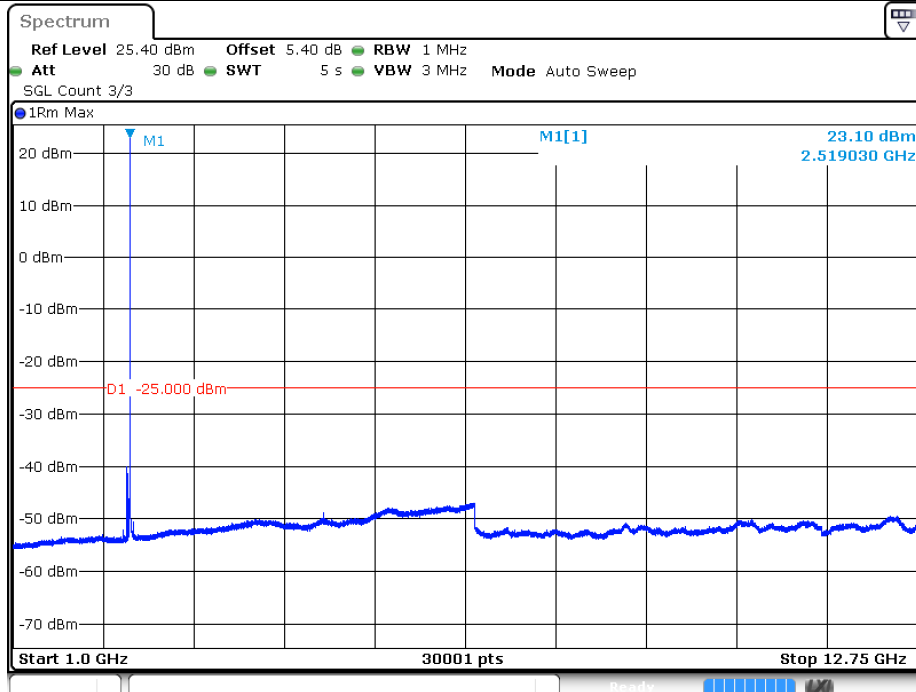


CA 7C 100RB+100RB QPSK 21048+20850 0RB#0+1RB#99 30 1000



Date: 24.DEC.2020 18:26:39

CA 7C 100RB+100RB QPSK 21048+20850 0RB#0+1RB#99 1000 12750

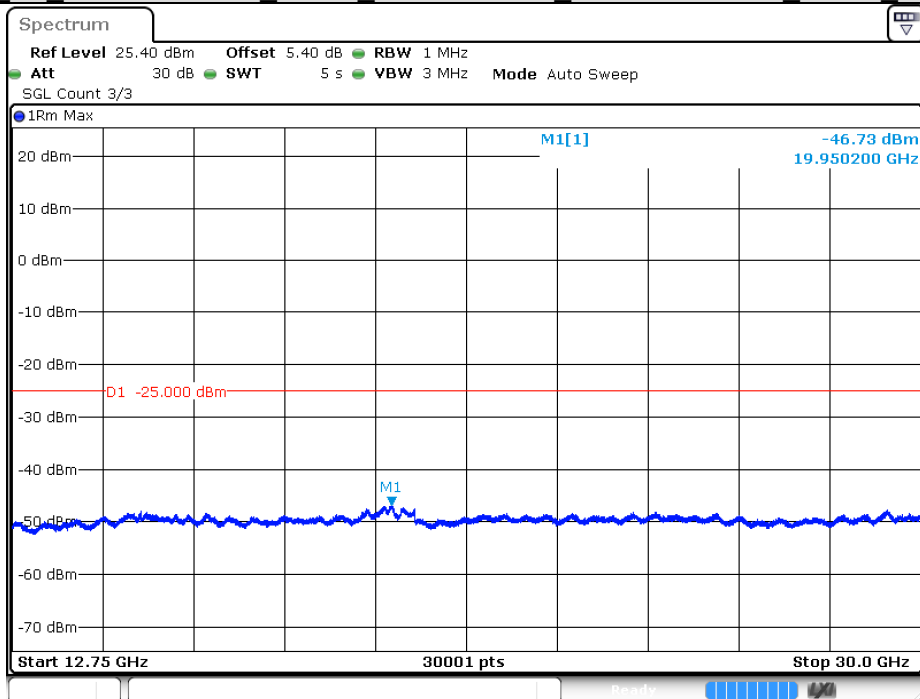


Date: 24.DEC.2020 18:30:22



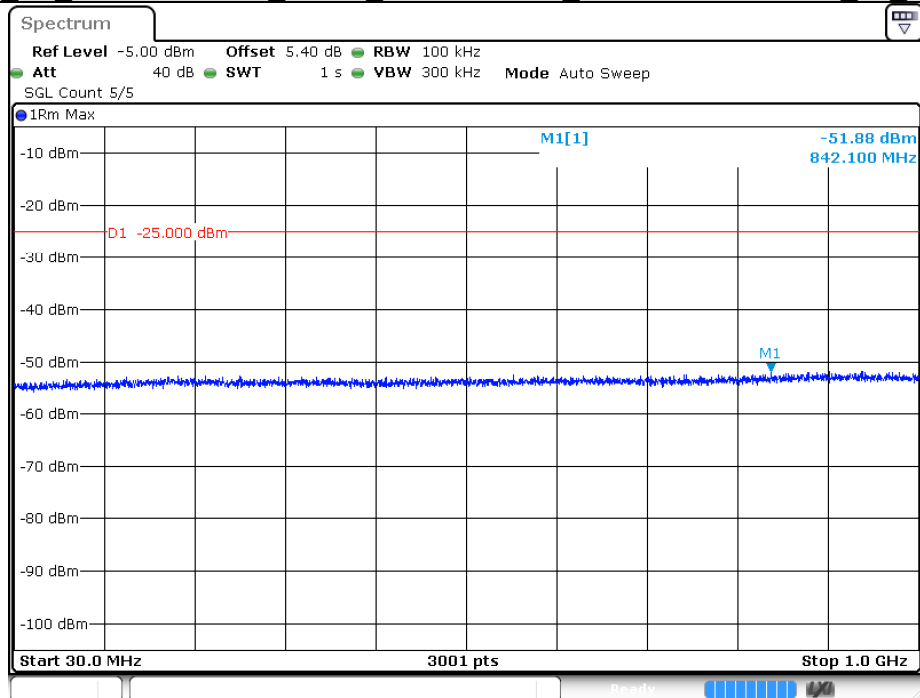


CA 7C 100RB+100RB QPSK 21048+20850 0RB#0+1RB#99 12750 30000



Date: 24.DEC.2020 18:39:53

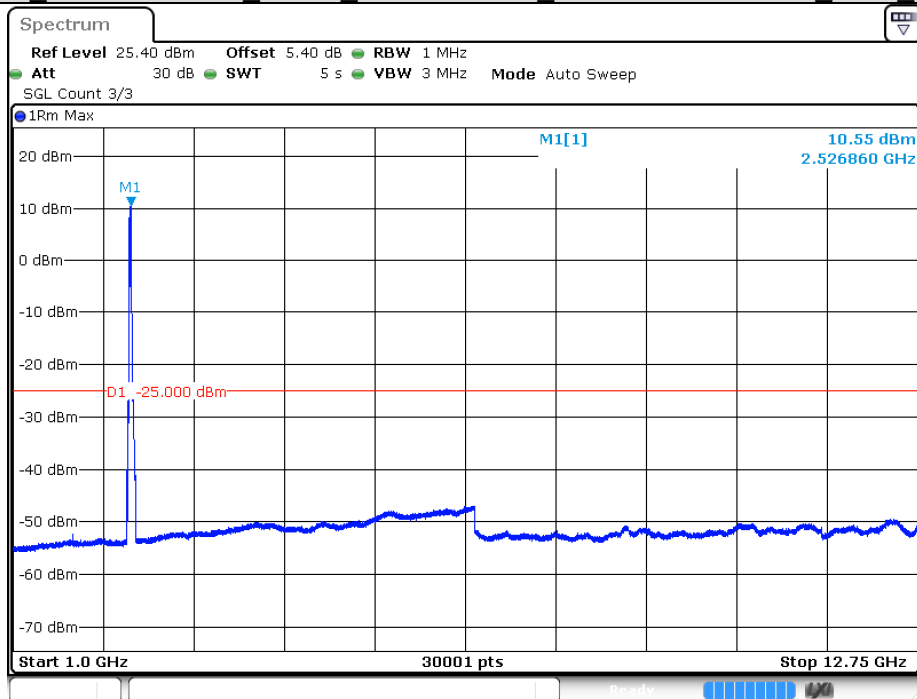
CA 7C 100RB+100RB QPSK 21048+20850 100RB#0+100RB#0 30 1000



Date: 24.DEC.2020 18:26:45

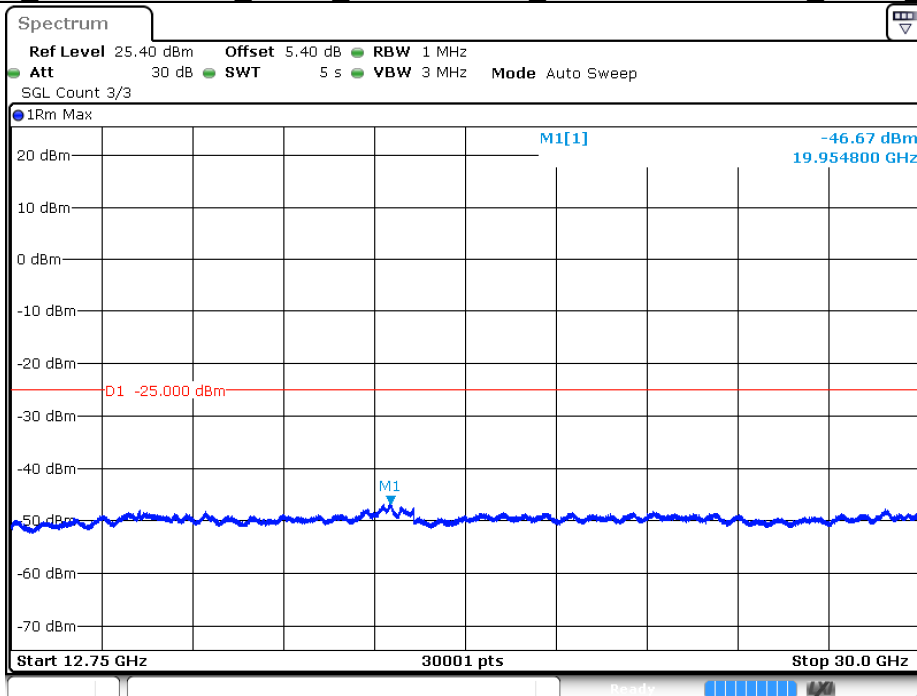


CA 7C 100RB+100RB QPSK 21048+20850 100RB#0+100RB#0 1000 12750



Date: 24.DEC.2020 18:30:39

CA 7C 100RB+100RB QPSK 21048+20850 100RB#0+100RB#0 12750 30000

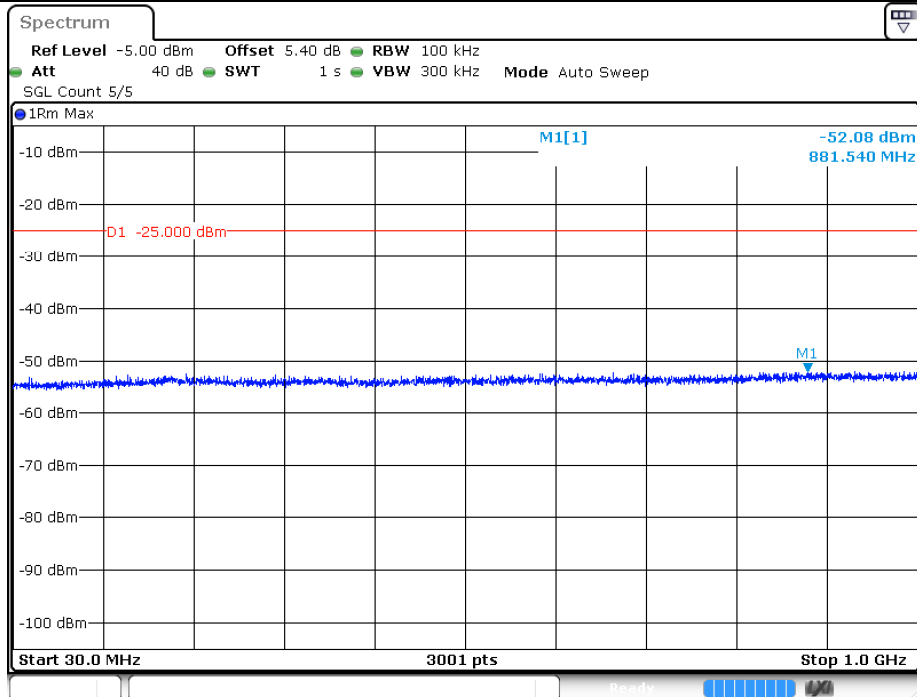


Date: 24.DEC.2020 18:40:10



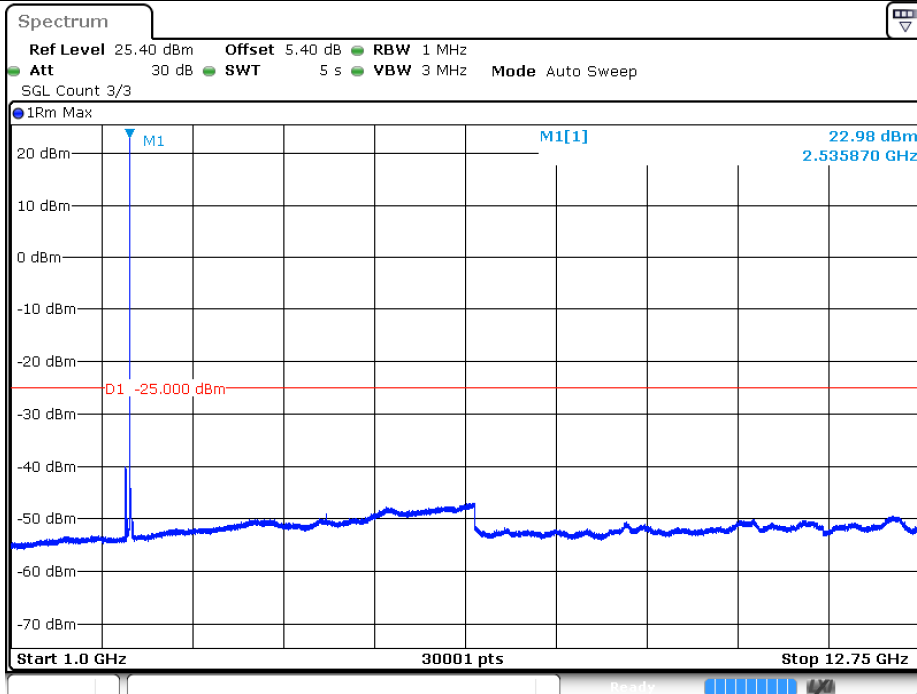


CA 7C 100RB+100RB QPSK 21199+21001 1RB#0+0RB#0 30 1000



Date: 24.DEC.2020 18:27:43

CA 7C 100RB+100RB QPSK 21199+21001 1RB#0+0RB#0 1000 12750

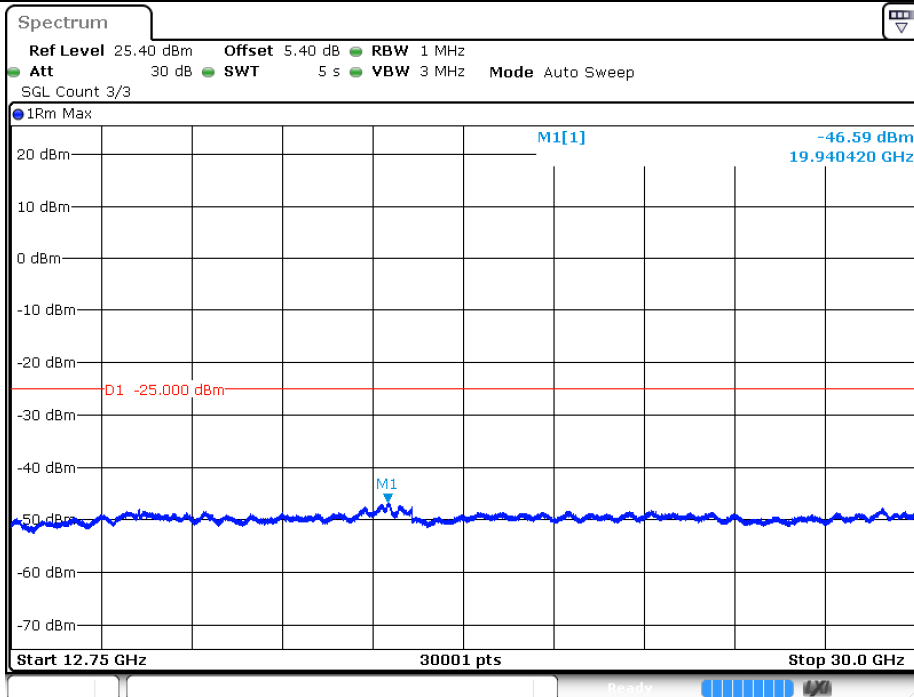


Date: 24.DEC.2020 18:32:49



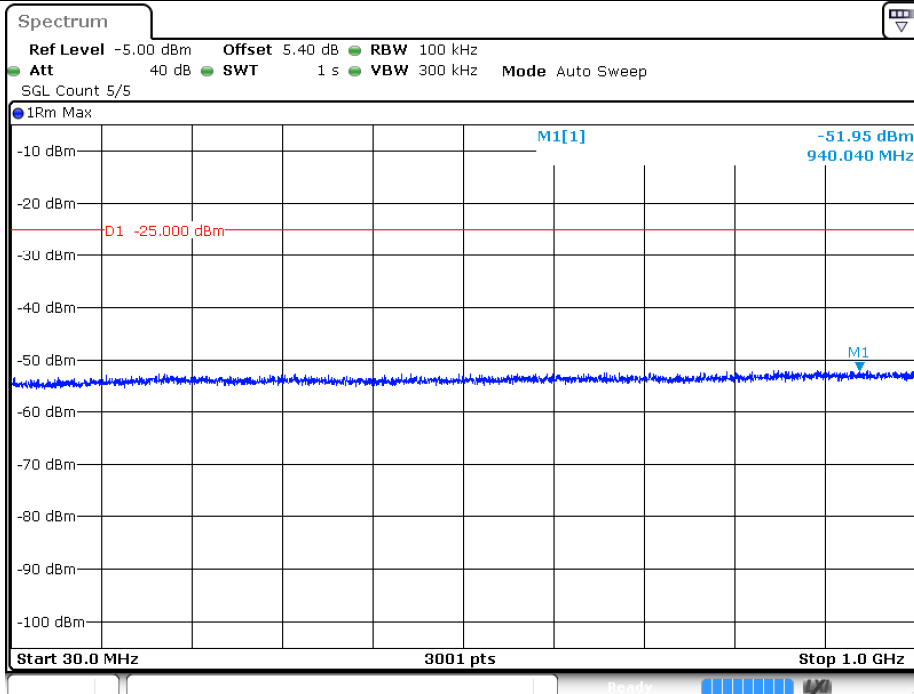


CA 7C 100RB+100RB QPSK 21199+21001 1RB#0+0RB#0 12750 30000



Date: 24.DEC.2020 18:42:21

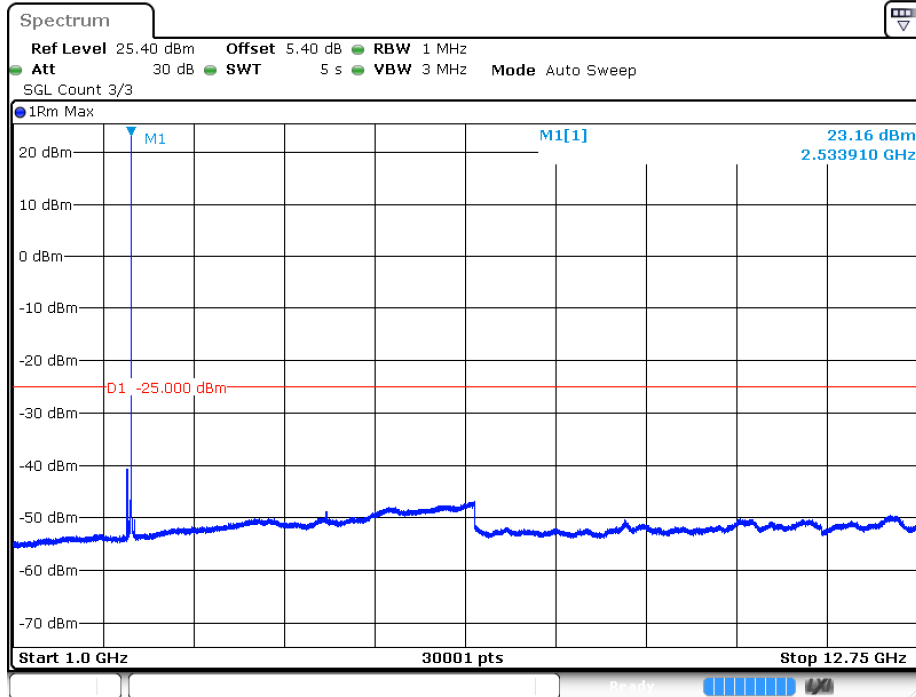
CA 7C 100RB+100RB QPSK 21199+21001 0RB#0+1RB#99 30 1000



Date: 24.DEC.2020 18:27:49

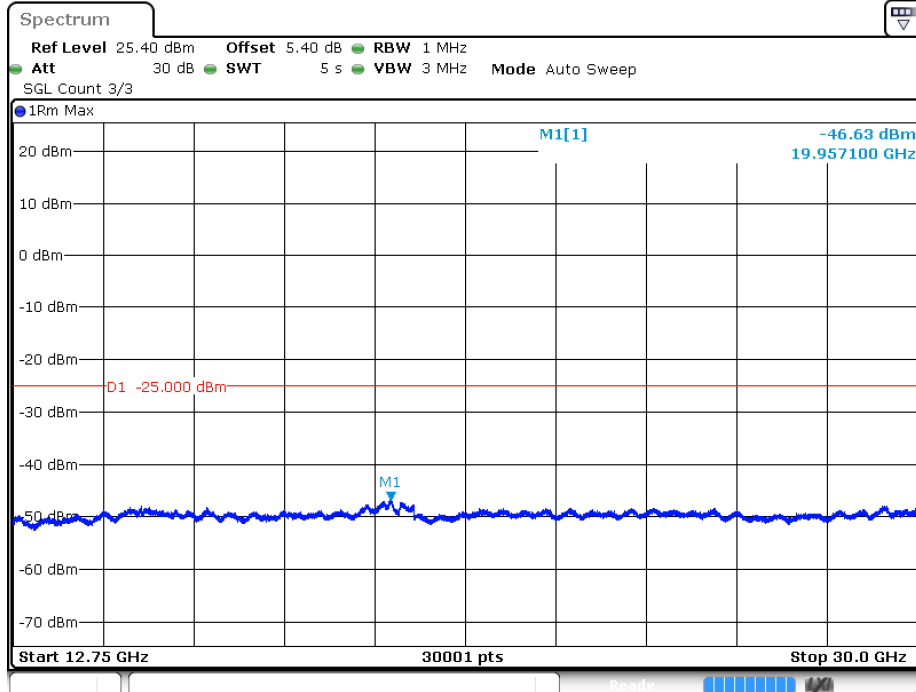


CA 7C 100RB+100RB QPSK 21199+21001 0RB#0+1RB#99 1000 12750



Date: 24.DEC.2020 18:33:06

CA 7C 100RB+100RB QPSK 21199+21001 0RB#0+1RB#99 12750 30000

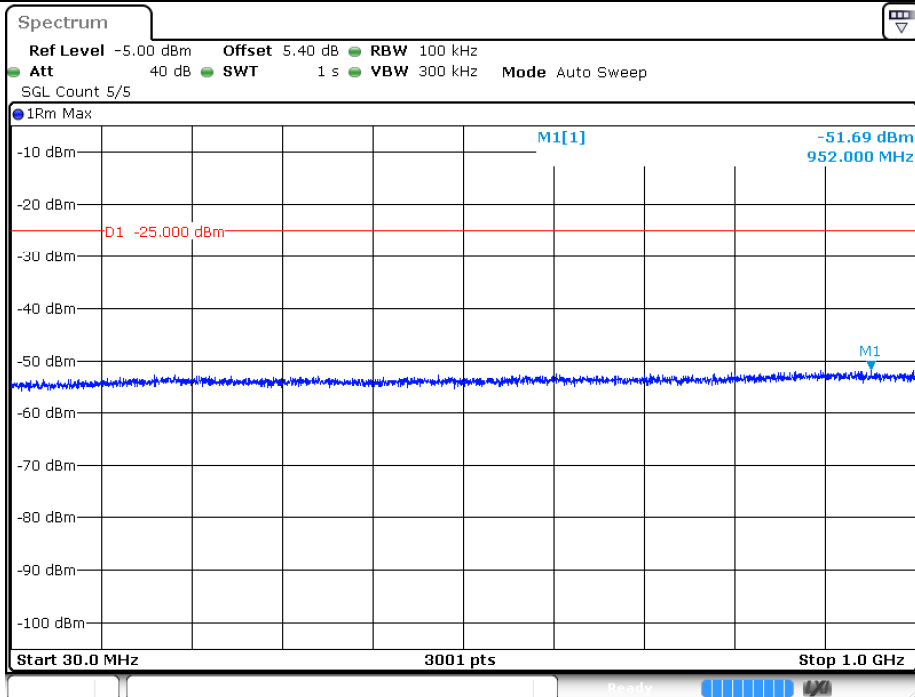


Date: 24.DEC.2020 18:42:38



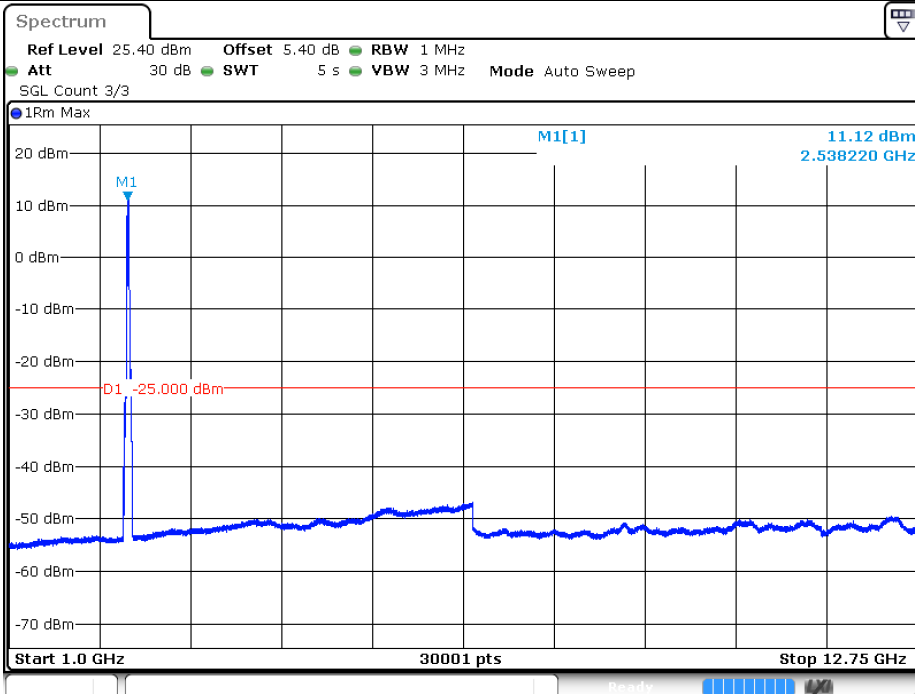


CA 7C 100RB+100RB QPSK 21199+21001 100RB#0+100RB#0 30 1000



Date: 24.DEC.2020 18:27:55

CA 7C 100RB+100RB QPSK 21199+21001 100RB#0+100RB#0 1000 12750

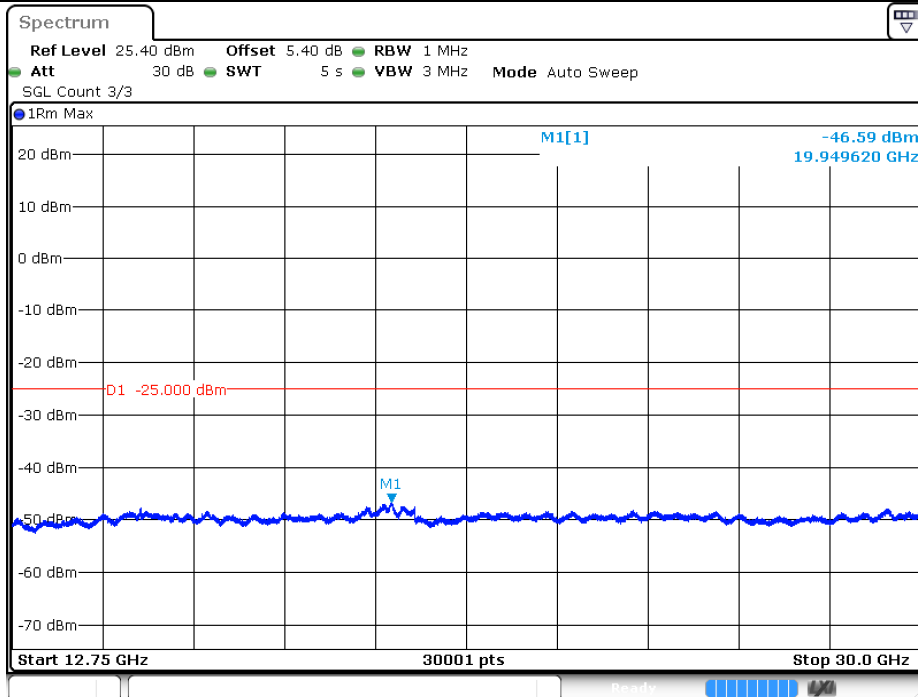


Date: 24.DEC.2020 18:33:23



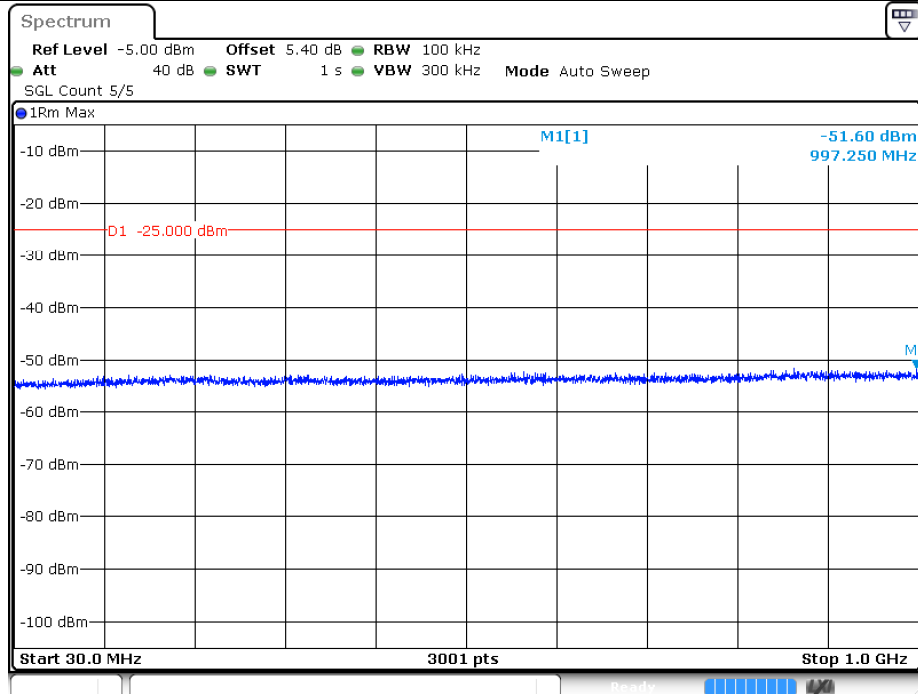


CA 7C 100RB+100RB QPSK 21199+21001 100RB#0+100RB#0 12750 30000



Date: 24.DEC.2020 18:42:55

CA 7C 100RB+100RB QPSK 21350+21152 1RB#0+0RB#0 30 1000



Date: 24.DEC.2020 18:28:52



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

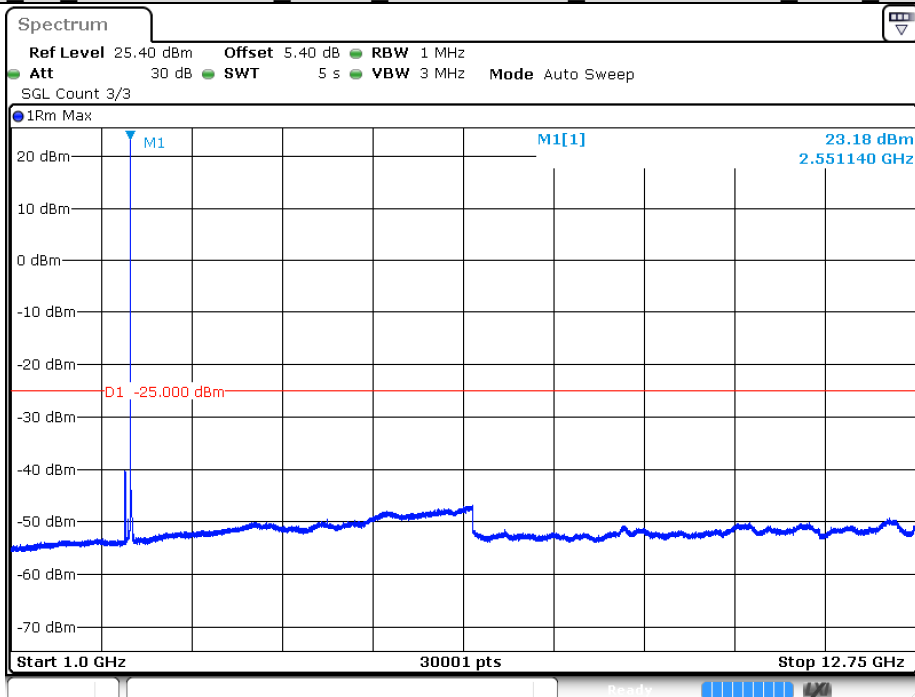
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Member of the SGS Group (SGS SA)

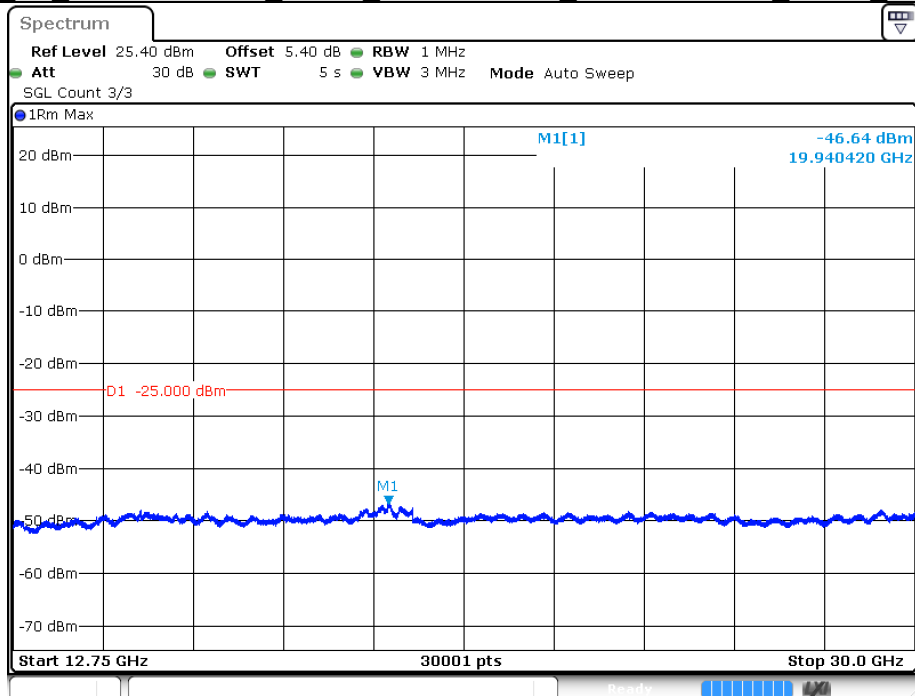


CA 7C 100RB+100RB QPSK 21350+21152 1RB#0+0RB#0 1000 12750



Date: 24.DEC.2020 18:35:27

CA 7C 100RB+100RB QPSK 21350+21152 1RB#0+0RB#0 12750 30000



Date: 24.DEC.2020 18:45:06



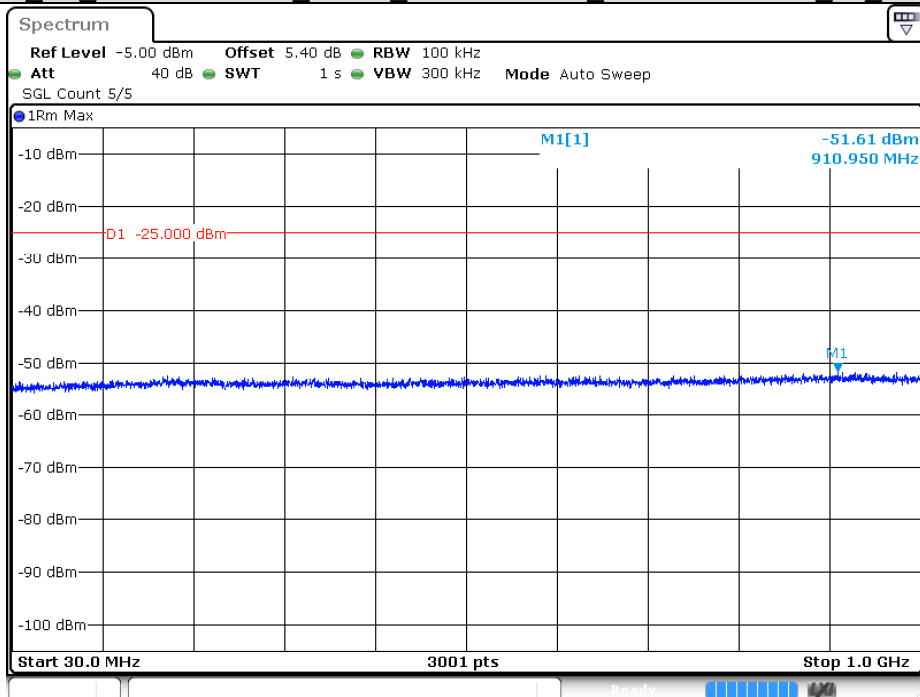
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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-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

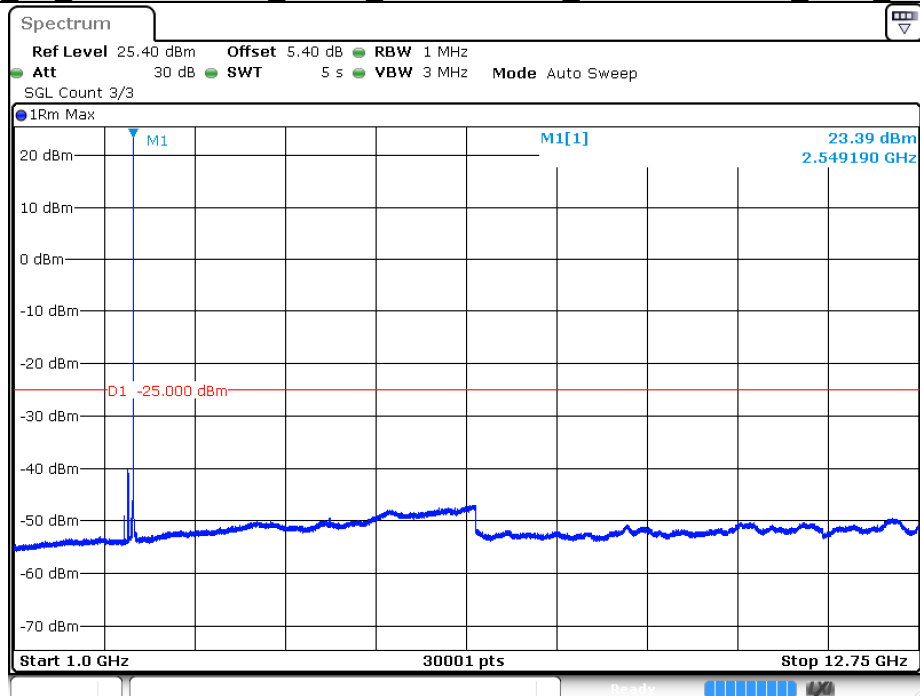


CA 7C 100RB+100RB QPSK 21350+21152 0RB#0+1RB#99 30 1000



Date: 24.DEC.2020 18:28:58

CA 7C 100RB+100RB QPSK 21350+21152 0RB#0+1RB#99 1000 12750



Date: 24.DEC.2020 18:35:44



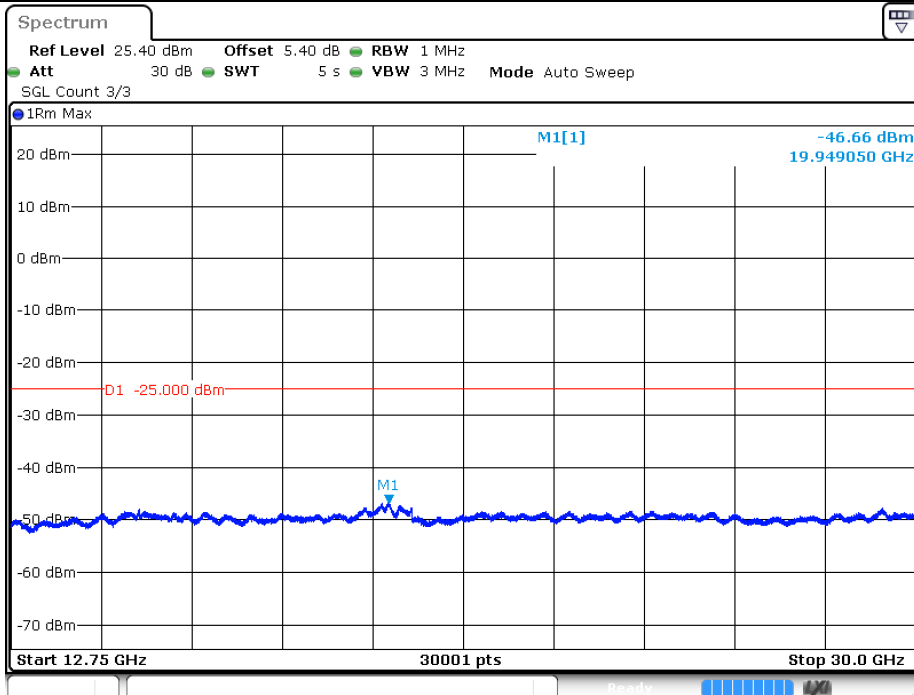
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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

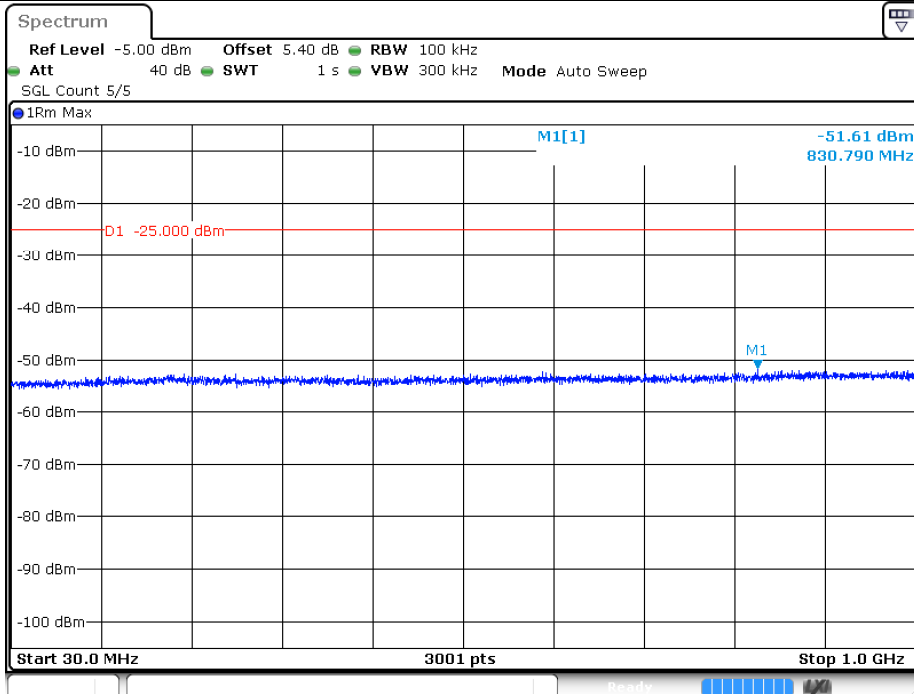


CA 7C 100RB+100RB QPSK 21350+21152 0RB#0+1RB#99 12750 30000



Date: 24.DEC.2020 18:45:23

CA 7C 100RB+100RB QPSK 21350+21152 100RB#0+100RB#0 30 1000

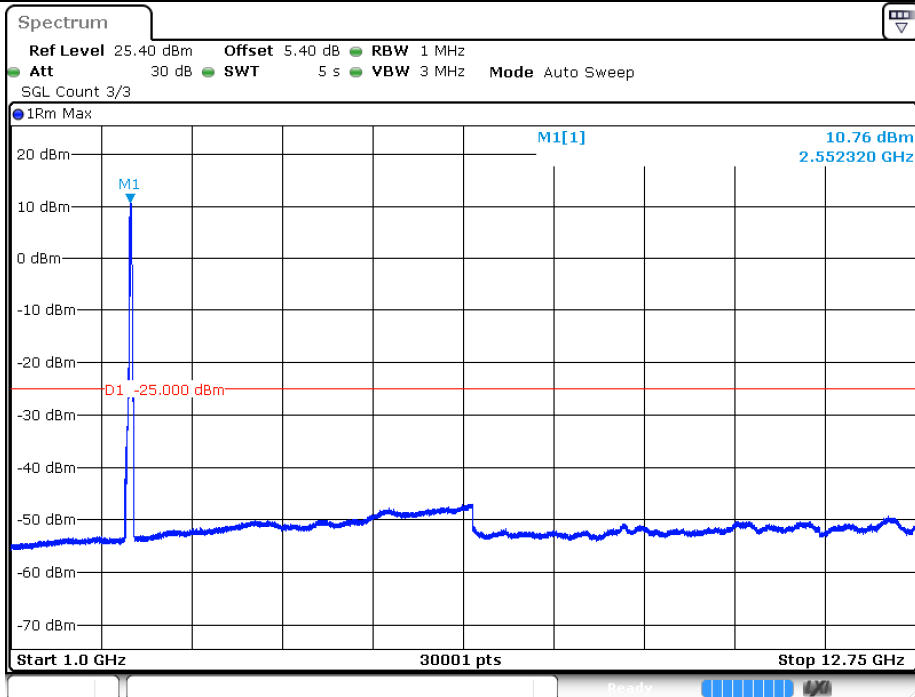


Date: 24.DEC.2020 18:29:04



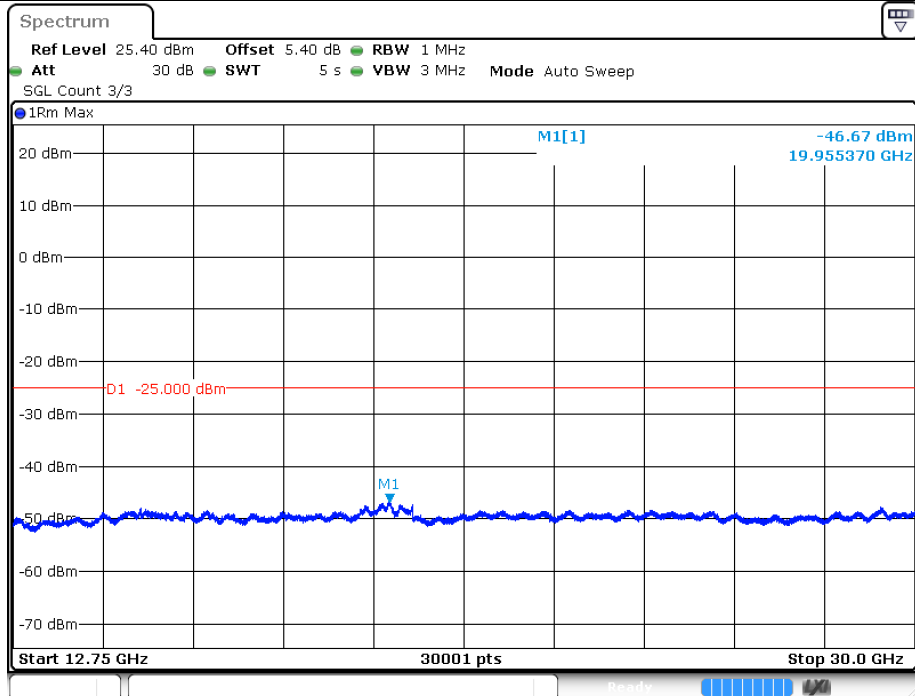


CA 7C 100RB+100RB QPSK 21350+21152 100RB#0+100RB#0 1000 12750



Date: 24.DEC.2020 18:36:01

CA 7C 100RB+100RB QPSK 21350+21152 100RB#0+100RB#0 12750 30000



Date: 24.DEC.2020 18:45:40



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



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

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

7 Field Strength of Spurious Radiation

7.1 Test Band = LTE Band CA_7C (MAIN)

7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.300000	-80.13	-25.00	55.13	Vertical
125.000000	-83.82	-25.00	58.82	Vertical
315.400000	-84.13	-25.00	59.13	Vertical
5002.000000	-60.26	-25.00	35.26	Vertical
7503.200000	-49.23	-25.00	24.23	Vertical
10004.400000	-59.22	-25.00	34.22	Vertical
62.450000	-75.16	-25.00	50.16	Horizontal
159.250000	-79.86	-25.00	54.86	Horizontal
260.350000	-84.44	-25.00	59.44	Horizontal
5002.000000	-61.83	-25.00	36.83	Horizontal
7503.200000	-58.64	-25.00	33.64	Horizontal
10004.400000	-57.61	-25.00	32.61	Horizontal

7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.900000	-79.59	-25.00	54.59	Vertical
124.950000	-83.72	-25.00	58.72	Vertical
316.200000	-83.86	-25.00	58.86	Vertical
5032.225000	-61.50	-25.00	36.50	Vertical
7548.700000	-58.39	-25.00	33.39	Vertical
10064.850000	-59.57	-25.00	34.57	Vertical
62.450000	-75.63	-25.00	50.63	Horizontal
159.300000	-80.30	-25.00	55.30	Horizontal
477.683333	-82.94	-25.00	57.94	Horizontal
5032.550000	-60.68	-25.00	35.68	Horizontal
7548.375000	-60.55	-25.00	35.55	Horizontal
10064.850000	-58.86	-25.00	33.86	Horizontal



7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.550000	-79.85	-25.00	54.85	Vertical
125.000000	-83.99	-25.00	58.99	Vertical
318.950000	-83.79	-25.00	58.79	Vertical
5062.450000	-63.17	-25.00	38.17	Vertical
7593.875000	-42.72	-25.00	17.72	Vertical
10125.300000	-59.09	-25.00	34.09	Vertical
62.450000	-75.50	-25.00	50.50	Horizontal
159.200000	-79.14	-25.00	54.14	Horizontal
476.445833	-83.05	-25.00	58.05	Horizontal
5062.450000	-57.93	-25.00	32.93	Horizontal
7593.875000	-50.36	-25.00	25.36	Horizontal
12656.725000	-58.38	-25.00	33.38	Horizontal

7.2 Test Band = LTE Band CA_7C (DIV)

7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.700000	-79.20	-25.00	54.20	Vertical
125.000000	-83.64	-25.00	58.64	Vertical
342.450000	-83.83	-25.00	58.83	Vertical
4390.025000	-65.57	-25.00	40.57	Vertical
7503.200000	-50.60	-25.00	25.60	Vertical
10621.250000	-60.67	-25.00	35.67	Vertical
62.950000	-75.49	-25.00	50.49	Horizontal
159.250000	-83.99	-25.00	58.99	Horizontal
329.350000	-84.02	-25.00	59.02	Horizontal
4441.700000	-65.41	-25.00	40.41	Horizontal
7503.525000	-54.65	-25.00	29.65	Horizontal
10576.725000	-61.25	-25.00	36.25	Horizontal



7.1.4 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.400000	-79.85	-25.00	54.85	Vertical
125.000000	-83.38	-25.00	58.38	Vertical
336.800000	-83.48	-25.00	58.48	Vertical
4384.825000	-65.03	-25.00	40.03	Vertical
7548.700000	-50.81	-25.00	25.81	Vertical
10643.675000	-60.92	-25.00	35.92	Vertical
63.000000	-75.82	-25.00	50.82	Horizontal
159.250000	-84.86	-25.00	59.86	Horizontal
325.100000	-84.60	-25.00	59.60	Horizontal
4285.700000	-65.45	-25.00	40.45	Horizontal
7548.700000	-54.39	-25.00	29.39	Horizontal
10646.275000	-61.23	-25.00	36.23	Horizontal

7.1.5 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.550000	-79.98	-25.00	54.98	Vertical
125.000000	-83.53	-25.00	58.53	Vertical
343.100000	-83.82	-25.00	58.82	Vertical
4270.100000	-65.39	-25.00	40.39	Vertical
7593.875000	-51.66	-25.00	26.66	Vertical
11278.075000	-61.49	-25.00	36.49	Vertical
56.200000	-76.20	-25.00	51.20	Horizontal
159.200000	-84.19	-25.00	59.19	Horizontal
325.850000	-84.96	-25.00	59.96	Horizontal
4293.825000	-65.05	-25.00	40.05	Horizontal
7593.875000	-55.75	-25.00	30.75	Horizontal
10628.075000	-61.21	-25.00	36.21	Horizontal

Remark:

- 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.
- The disturbance below 30MHz and above 12.75GHz 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.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			Config					
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	TN	NV	-10.42	-0.004159	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	TN	NV	0.67	0.000265	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	TN	NV	7.61	0.002997	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	TN	NV	-6.12	-0.002419	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	TN	NV	-7.49	-0.002943	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	TN	NV	14.85	0.005799	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	TN	NV	12.56	0.005014	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	TN	NV	9.62	0.003810	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	TN	NV	1.29	0.000508	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	TN	NV	-11.91	-0.004710	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	TN	NV	-6.37	-0.002505	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	TN	NV	-11.84	-0.004625	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	TN	NV	-4.08	-0.001628	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	TN	NV	-5.76	-0.002281	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	TN	NV	14.38	0.005660	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	TN	NV	5.32	0.002104	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	TN	NV	4.39	0.001726	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	TN	NV	4.77	0.001865	PASS



8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			Config					
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-30	-10.54	-0.004207	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-20	9.11	0.003634	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-10	2.79	0.001112	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	0	-4.64	-0.001852	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	10	14.15	0.005646	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	20	-4.94	-0.001972	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	30	-6.40	-0.002554	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	40	4.88	0.001949	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	50	13.69	0.005465	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-30	13.33	0.005279	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-20	-12.33	-0.004882	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-10	13.51	0.005350	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	0	-13.30	-0.005269	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	10	11.21	0.004441	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	20	6.38	0.002528	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	30	-1.37	-0.000544	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	40	0.17	0.000069	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	50	-14.35	-0.005681	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-30	-0.30	-0.000120	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-20	9.47	0.003728	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-10	-5.32	-0.002093	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	0	-1.49	-0.000586	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	10	-9.06	-0.003568	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	20	-4.64	-0.001825	PASS





CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	30	-13.75	-0.005412	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	40	-12.03	-0.004735	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	50	-13.03	-0.005128	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-30	4.37	0.001726	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-20	11.86	0.004689	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-10	-7.20	-0.002847	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	0	5.43	0.002148	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	10	-11.78	-0.004658	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	20	9.37	0.003705	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	30	-9.37	-0.003706	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	40	-5.25	-0.002076	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	50	-6.74	-0.002666	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-30	-3.29	-0.001293	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-20	-1.11	-0.000438	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-10	-0.18	-0.000071	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	0	4.17	0.001639	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	10	0.53	0.000206	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	20	0.86	0.000339	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	30	0.84	0.000331	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	40	0.14	0.000055	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	50	12.05	0.004735	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-30	9.17	0.003581	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-20	1.54	0.000602	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-10	13.66	0.005337	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	0	-4.53	-0.001769	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	10	-6.63	-0.002588	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Shenzhen CSTC 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_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	20	11.24	0.004392	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	30	-0.57	-0.000222	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	40	3.63	0.001417	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	50	-9.92	-0.003876	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-30	-11.42	-0.004556	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-20	1.55	0.000617	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-10	-1.09	-0.000434	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	0	10.16	0.004055	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	10	12.10	0.004831	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	20	14.82	0.005915	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	30	-1.94	-0.000775	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	40	-9.26	-0.003696	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	50	6.06	0.002417	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-30	-3.81	-0.001510	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-20	-6.50	-0.002574	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-10	3.37	0.001336	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	0	4.30	0.001702	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	10	5.10	0.002018	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	20	-7.38	-0.002923	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	30	2.47	0.000979	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	40	-7.47	-0.002958	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	50	2.50	0.000992	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-30	-12.54	-0.004937	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-20	-10.34	-0.004072	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-10	-0.96	-0.000376	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	0	-0.56	-0.000219	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA, CNAS, ILAC) 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_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	10	-11.70	-0.004607	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	20	-8.28	-0.003259	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	30	-8.28	-0.003259	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	40	3.29	0.001297	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	50	-0.12	-0.000046	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-30	-10.26	-0.004055	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-20	-9.96	-0.003936	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-10	3.17	0.001252	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	0	13.44	0.005313	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	10	12.55	0.004962	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	20	-12.70	-0.005019	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	30	2.10	0.000831	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	40	9.65	0.003816	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	50	10.84	0.004284	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-30	-7.79	-0.003063	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-20	8.24	0.003239	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-10	-9.01	-0.003539	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	0	-14.68	-0.005769	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	10	7.17	0.002816	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	20	8.68	0.003413	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	30	-10.33	-0.004058	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	40	13.59	0.005342	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	50	-4.17	-0.001637	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-30	-2.10	-0.000819	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-20	5.58	0.002180	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-10	8.20	0.003203	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) 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_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	0	13.52	0.005283	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	10	11.19	0.004373	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	20	12.38	0.004836	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	30	-14.66	-0.005727	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	40	-9.51	-0.003714	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	50	10.21	0.003989	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-30	8.61	0.003435	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-20	-8.39	-0.003348	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-10	-1.62	-0.000647	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	0	0.71	0.000285	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	10	12.05	0.004811	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	20	-11.34	-0.004527	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	30	1.88	0.000749	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	40	-9.51	-0.003798	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	50	-9.21	-0.003677	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-30	-5.73	-0.002269	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-20	-1.75	-0.000692	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-10	14.72	0.005829	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	0	11.13	0.004409	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	10	7.45	0.002951	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	20	-10.18	-0.004032	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	30	14.77	0.005850	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	40	0.41	0.000163	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	50	-6.69	-0.002651	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-30	-7.89	-0.003106	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-20	-13.58	-0.005348	PASS





CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-10	7.51	0.002958	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	0	-12.43	-0.004895	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	10	-4.28	-0.001684	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	20	8.82	0.003471	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	30	1.94	0.000764	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	40	-1.69	-0.000663	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	50	4.02	0.001583	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-30	-6.61	-0.002613	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-20	14.46	0.005717	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-10	14.64	0.005789	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	0	4.73	0.001870	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	10	-11.31	-0.004470	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	20	1.14	0.000452	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	30	6.66	0.002634	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	40	-4.04	-0.001595	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	50	-13.65	-0.005396	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-30	14.26	0.005605	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-20	9.78	0.003842	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-10	-9.80	-0.003850	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	0	-11.43	-0.004493	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	10	10.42	0.004094	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	20	5.68	0.002230	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	30	9.81	0.003855	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	40	-6.02	-0.002364	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	50	9.41	0.003699	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-30	-10.79	-0.004214	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) 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_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-20	11.16	0.004360	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-10	-13.16	-0.005141	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	0	-10.64	-0.004155	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	10	-12.48	-0.004873	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	20	5.73	0.002236	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	30	9.76	0.003813	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	40	14.36	0.005608	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	50	-1.65	-0.000643	PASS

The End

