



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-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) 2307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

CONTENT

Page

1	EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	4
1.1	MAX POWER TEST RESULT FOR LTE BAND CA_7C(ANT4)	4
1.2	MAX POWER TEST RESULT FOR LTE BAND CA_7C(ANT3)	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.....	79
7.1	Test Band = LTE Band CA_7C (ANT4).....	79
7.1.1	TEST CHANNEL = LCH	79
7.1.2	TEST CHANNEL = MCH.....	79
7.1.3	TEST CHANNEL = HCH	79
7.2	Test Band = LTE Band CA_7C (ANT3).....	80
7.1.1	TEST CHANNEL = LCH	80
7.1.4	TEST CHANNEL = MCH.....	81
7.1.5	TEST CHANNEL = HCH	81



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

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



8 FREQUENCY STABILITY.....82

8.1 FREQUENCY ERROR VS. VOLTAGE 82

8.2 FREQUENCY ERROR VS. TEMPERATURE 83



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) 26012053, or email: CN.Doccheck@sgs.com



1 Effective (Isotropic) Radiated Power Output Data

1.1 Max Power Test Result for LTE Band CA_7C(ANT4)

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	23.58	20.58	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	23.13	20.13	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	23.15	20.15	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	23.23	20.23	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	23.12	20.12	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	23.42	20.42	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	23.49	20.49	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	23.24	20.24	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	23.49	20.49	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	23.19	20.19	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	23.44	20.44	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	23.47	20.47	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	23.55	20.55	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	23.53	20.53	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	23.38	20.38	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	23.62	20.62	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	23.64	20.64	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	23.41	20.41	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	23.47	20.47	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	23.36	20.36	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	23.49	20.49	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	23.50	20.5	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	23.50	20.5	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	23.25	20.25	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	23.49	20.49	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	23.42	20.42	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	23.48	20.48	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	23.17	20.17	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	23.55	20.55	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	23.42	20.42	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	23.39	20.39	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	23.55	20.55	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	23.33	20.33	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	22.58	19.58	33.00	PASS



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

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



CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	22.87	19.87	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	22.71	19.71	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	16QAM	22.82	19.82	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	22.69	19.69	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	22.94	19.94	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	22.65	19.65	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	22.41	19.41	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	23.04	20.04	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	22.57	19.57	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	22.73	19.73	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	22.64	19.64	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	23.02	20.02	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	22.61	19.61	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	22.91	19.91	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	23.02	20.02	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	22.43	19.43	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	22.66	19.66	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	22.68	19.68	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	22.83	19.83	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	22.58	19.58	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	23.08	20.08	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	22.63	19.63	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	22.69	19.69	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	22.41	19.41	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	22.70	19.7	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	22.60	19.6	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	22.60	19.6	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	22.31	19.31	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	22.70	19.7	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	22.38	19.38	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	22.60	19.6	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	22.64	19.64	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	21.84	18.84	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	21.38	18.38	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	21.49	18.49	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	21.74	18.74	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	21.65	18.65	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	21.74	18.74	33.00	PASS



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

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



CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	21.67	18.67	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	21.33	18.33	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	21.80	18.8	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	21.52	18.52	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	21.79	18.79	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	21.61	18.61	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	21.63	18.63	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	21.71	18.71	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	21.66	18.66	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	21.49	18.49	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	21.48	18.48	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	21.80	18.8	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	21.37	18.37	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	21.79	18.79	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	21.33	18.33	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	21.65	18.65	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	21.46	18.46	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	21.69	18.69	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	21.70	18.7	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	21.45	18.45	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	21.23	18.23	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	21.63	18.63	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	21.58	18.58	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	21.64	18.64	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	21.33	18.33	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	21.45	18.45	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	21.42	18.42	33.00	PASS



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

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



1.2 Max Power Test Result for LTE Band CA_7C(ANT3)

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	18.47	17.47	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	18.71	17.71	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	18.29	17.29	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	18.5	17.5	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	18.96	17.96	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	18.39	17.39	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	18.76	17.76	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	18.69	17.69	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	18.85	17.85	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	18.85	17.85	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	18.67	17.67	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	18.71	17.71	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	18.66	17.66	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	18.48	17.48	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	19.04	18.04	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	18.7	17.7	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	18.6	17.6	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	19.02	18.02	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	18.8	17.8	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	18.52	17.52	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	18.47	17.47	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	18.68	17.68	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	18.74	17.74	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	18.83	17.83	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	18.94	17.94	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	18.59	17.59	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	18.51	17.51	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	18.69	17.69	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	18.58	17.58	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	19.08	18.08	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	19.22	18.22	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	18.78	17.78	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	18.59	17.59	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	18.07	17.07	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	18.38	17.38	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	17.97	16.97	33.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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) 2607 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	17.83	16.83	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	18.25	17.25	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	17.96	16.96	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	17.79	16.79	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	17.7	16.7	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	18.35	17.35	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	17.87	16.87	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	18.03	17.03	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	17.79	16.79	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	17.96	16.96	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	18.25	17.25	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	17.88	16.88	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	18.11	17.11	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	17.86	16.86	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	18.18	17.18	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	18.15	17.15	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	18	17	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	17.61	16.61	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	18.06	17.06	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	17.81	16.81	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	18.15	17.15	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	18.22	17.22	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	18.21	17.21	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	17.87	16.87	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	18.09	17.09	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	17.77	16.77	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	18.37	17.37	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	18.09	17.09	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	18.36	17.36	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	17.69	16.69	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	16.26	15.26	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	16.78	15.78	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	16.77	15.77	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	15.94	14.94	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	16.75	15.75	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	16.58	15.58	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	16.1	15.1	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	15.77	14.77	33.00	PASS



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

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



CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	16.67	15.67	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	16.26	15.26	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	16.74	15.74	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	16.58	15.58	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	16.34	15.34	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	16.79	15.79	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	16.82	15.82	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	16.31	15.31	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	15.97	14.97	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	16.25	15.25	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	16.5	15.5	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	16.6	15.6	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	16.67	15.67	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	16.22	15.22	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	15.56	14.56	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	16.83	15.83	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	16.37	15.37	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	16.83	15.83	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	16.55	15.55	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	15.98	14.98	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	16.02	15.02	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	16.82	15.82	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	16.27	15.27	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	16.96	15.96	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	16.6	15.6	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]



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) 26012053, or email: CN.Doccheck@sgs.com



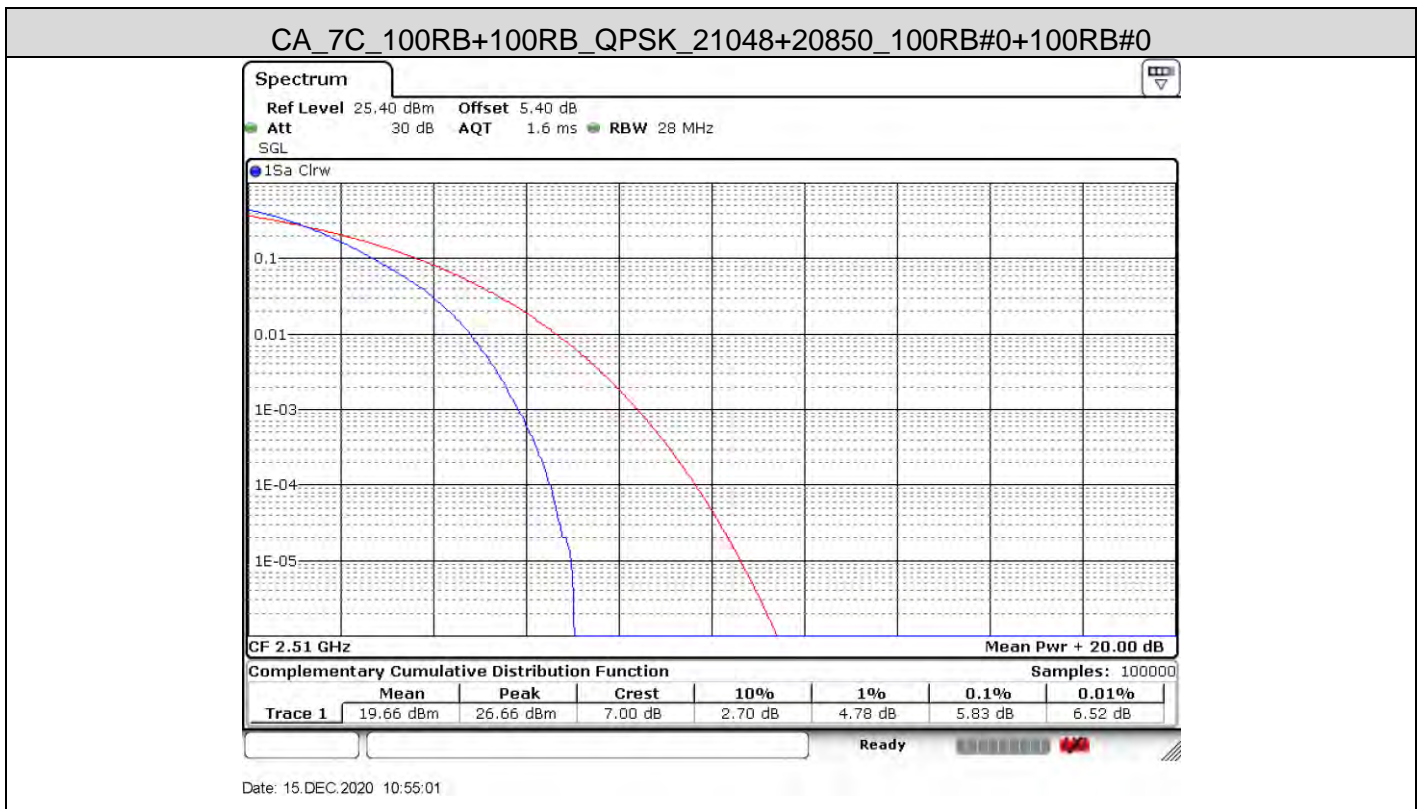
2 Peak-to-Average Ratio

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



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

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_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

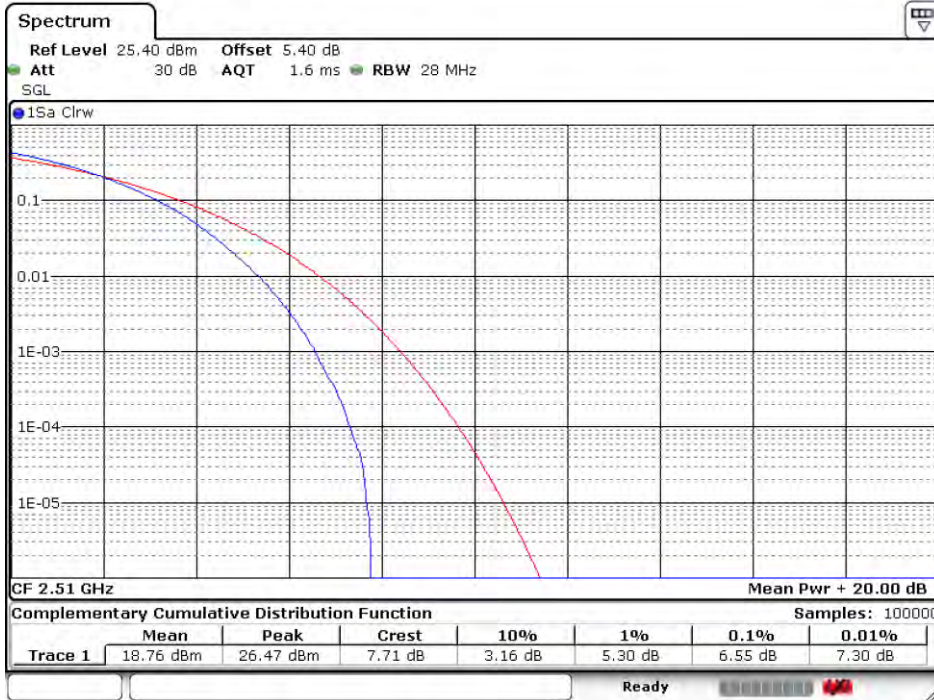


Date: 15 DEC.2020 11:01:17



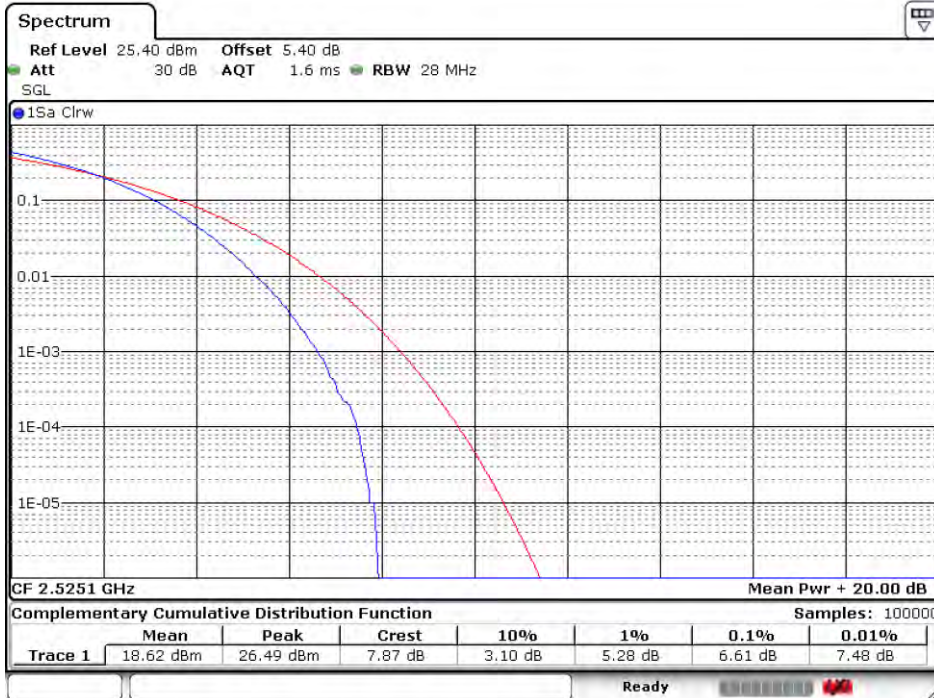


CA_7C_100RB+100RB_16QAM_21048+20850_100RB#0+100RB#0



Date: 15 DEC.2020 10:55:21

CA_7C_100RB+100RB_16QAM_21199+21001_100RB#0+100RB#0

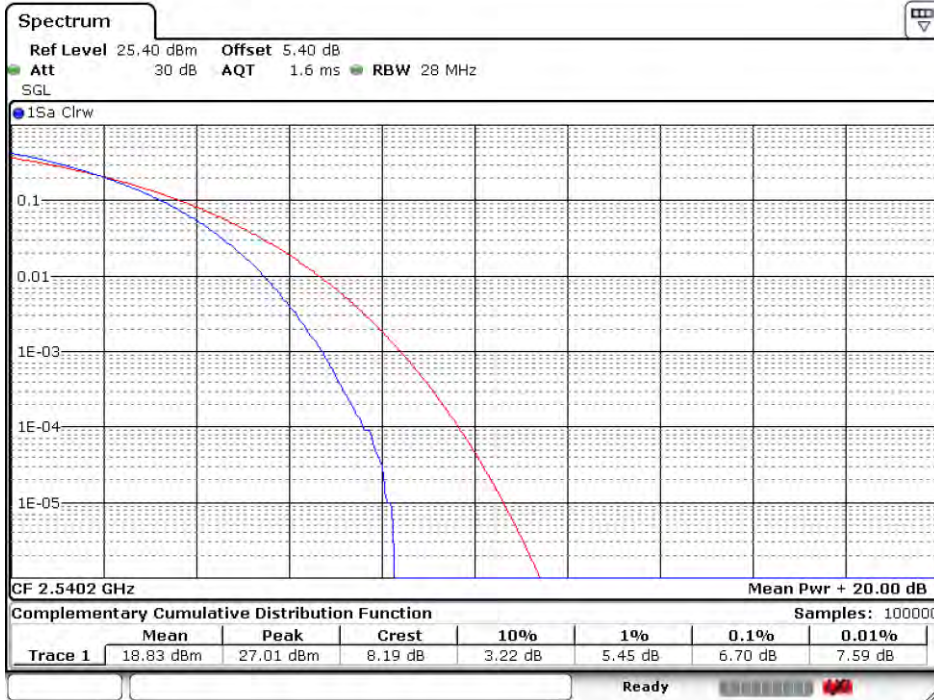


Date: 15 DEC.2020 10:57:59



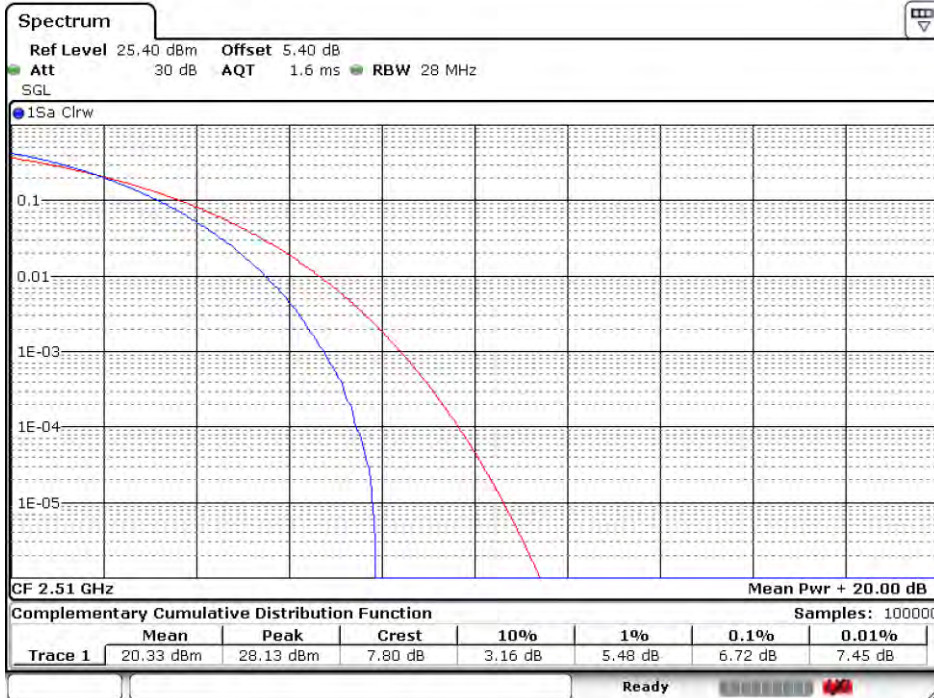


CA_7C_100RB+100RB_16QAM_21350+21152_100RB#0+100RB#0



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





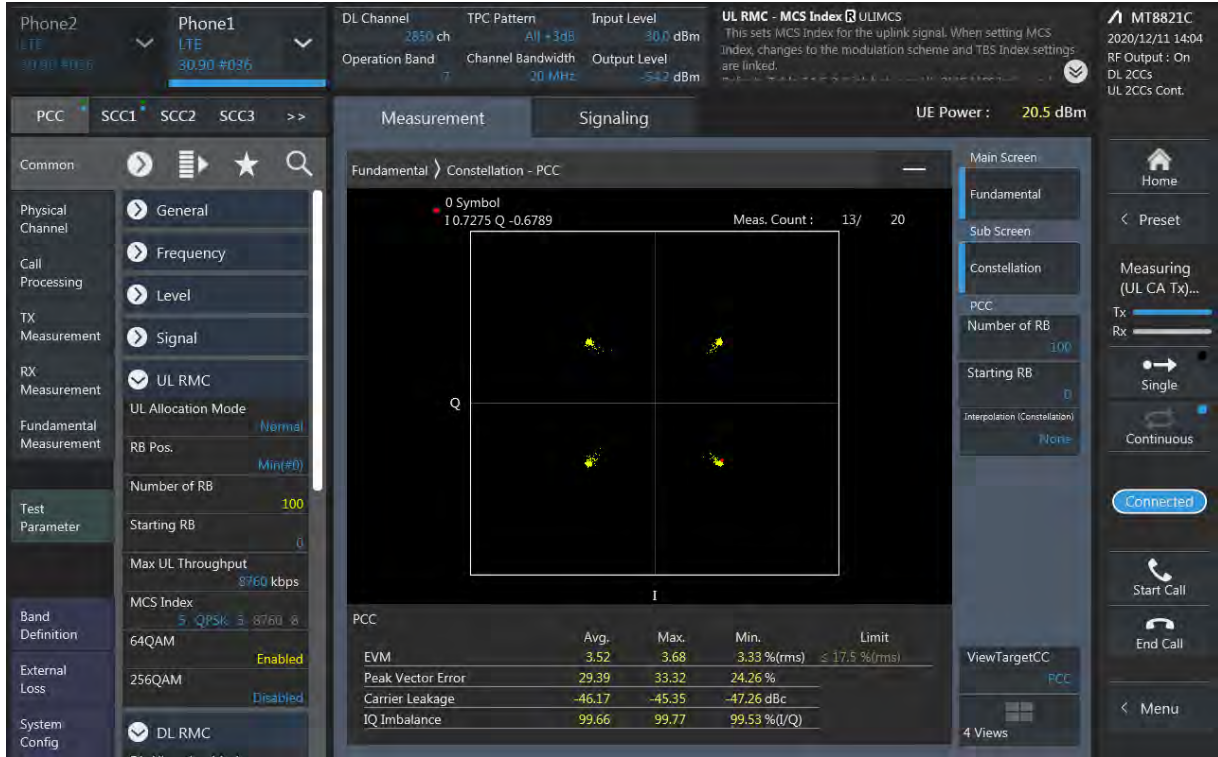
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_7C

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

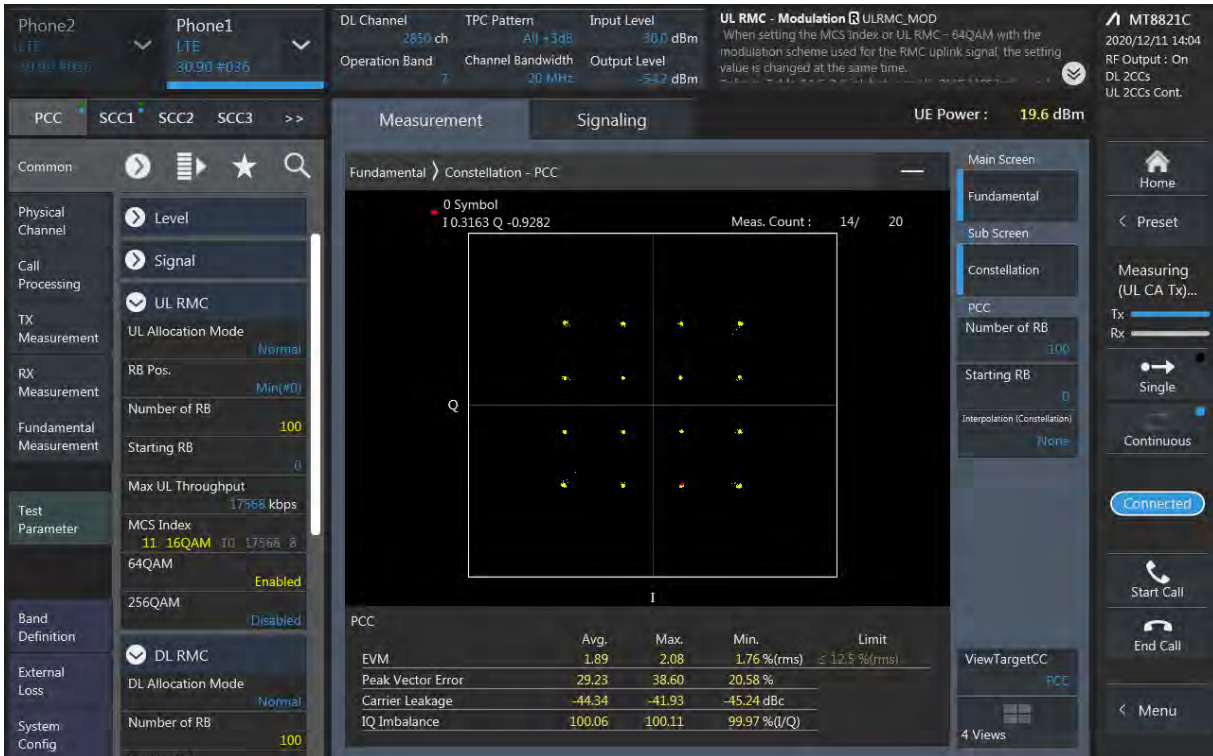
3.1.1.1.1 Test Channel = 20850+20994





3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

3.1.1.2.1 Test Channel =20850+20994



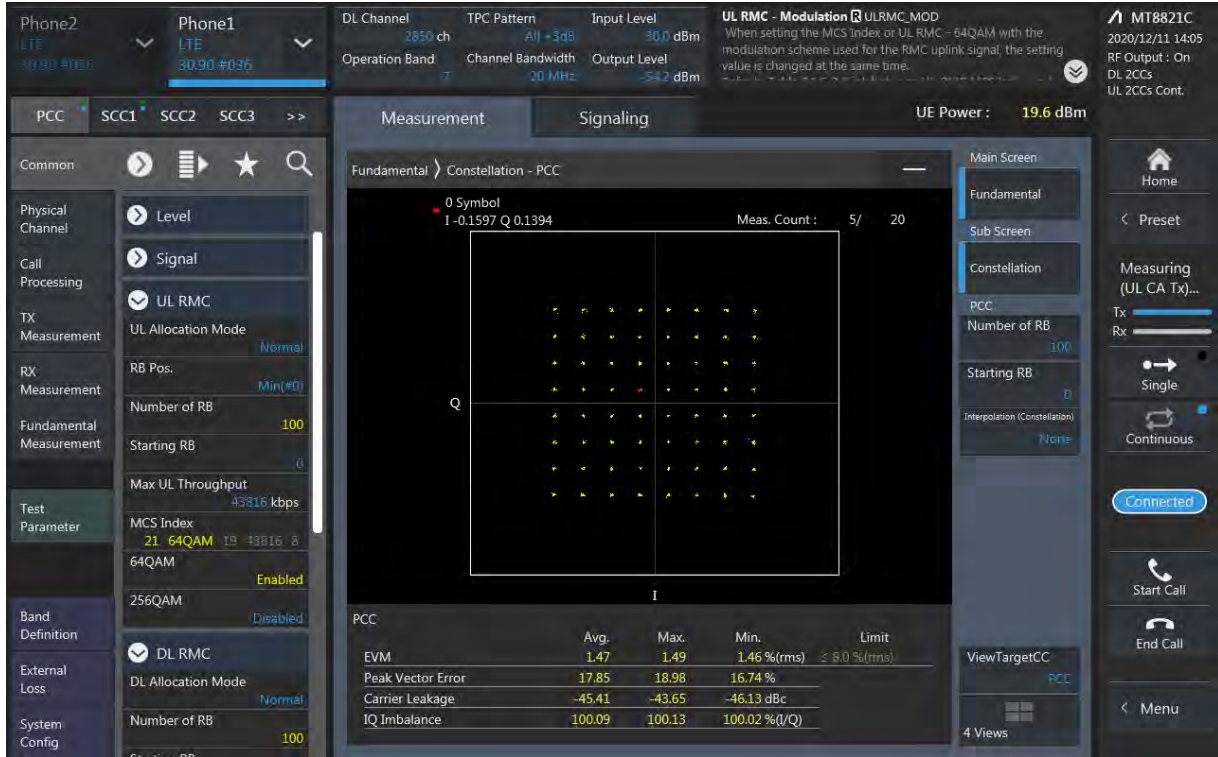
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



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

3.1.1.3.1 Test Channel = 20850+20994



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.



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	27.7	28.54	PASS
CA_7C	50RB+100RB	16QAM	20805+20949	50RB#0+100RB#0	27.55	28.57	PASS
CA_7C	50RB+100RB	64QAM	20805+20949	50RB#0+100RB#0	27.53	28.57	PASS
CA_7C	50RB+100RB	QPSK	21006+21150	50RB#0+100RB#0	27.71	28.55	PASS
CA_7C	50RB+100RB	16QAM	21006+21150	50RB#0+100RB#0	27.61	28.58	PASS
CA_7C	50RB+100RB	64QAM	21006+21150	50RB#0+100RB#0	27.59	28.60	PASS
CA_7C	50RB+100RB	QPSK	21206+21350	50RB#0+100RB#0	27.61	28.60	PASS
CA_7C	50RB+100RB	16QAM	21206+21350	50RB#0+100RB#0	27.53	28.52	PASS
CA_7C	50RB+100RB	64QAM	21206+21350	50RB#0+100RB#0	27.56	28.60	PASS
CA_7C	75RB+50RB	QPSK	20825+20945	75RB#0+50RB#0	23.34	24.27	PASS
CA_7C	75RB+50RB	16QAM	20825+20945	75RB#0+50RB#0	23.09	24.34	PASS
CA_7C	75RB+50RB	64QAM	20825+20945	75RB#0+50RB#0	22.99	24.33	PASS
CA_7C	75RB+50RB	QPSK	21051+21171	75RB#0+50RB#0	23.31	24.39	PASS
CA_7C	75RB+50RB	16QAM	21051+21171	75RB#0+50RB#0	23.18	24.38	PASS
CA_7C	75RB+50RB	64QAM	21051+21171	75RB#0+50RB#0	23.17	24.42	PASS
CA_7C	75RB+50RB	QPSK	21277+21397	75RB#0+50RB#0	23.26	24.41	PASS
CA_7C	75RB+50RB	16QAM	21277+21397	75RB#0+50RB#0	23.15	24.41	PASS
CA_7C	75RB+50RB	64QAM	21277+21397	75RB#0+50RB#0	23.06	24.39	PASS
CA_7C	75RB+75RB	QPSK	20825+20975	75RB#0+75RB#0	28.3	29.21	PASS
CA_7C	75RB+75RB	16QAM	20825+20975	75RB#0+75RB#0	28.21	29.12	PASS
CA_7C	75RB+75RB	64QAM	20825+20975	75RB#0+75RB#0	28.24	29.20	PASS
CA_7C	75RB+75RB	QPSK	21025+21175	75RB#0+75RB#0	28.36	29.17	PASS
CA_7C	75RB+75RB	16QAM	21025+21175	75RB#0+75RB#0	28.24	29.14	PASS
CA_7C	75RB+75RB	64QAM	21025+21175	75RB#0+75RB#0	28.24	29.17	PASS
CA_7C	75RB+75RB	QPSK	21225+21375	75RB#0+75RB#0	28.24	29.17	PASS
CA_7C	75RB+75RB	16QAM	21225+21375	75RB#0+75RB#0	28.19	29.20	PASS
CA_7C	75RB+75RB	64QAM	21225+21375	75RB#0+75RB#0	28.19	29.18	PASS
CA_7C	75RB+100RB	QPSK	20828+20999	75RB#0+100RB#0	32.67	33.89	PASS
CA_7C	75RB+100RB	16QAM	20828+20999	75RB#0+100RB#0	32.49	33.89	PASS
CA_7C	75RB+100RB	64QAM	20828+20999	75RB#0+100RB#0	32.45	33.85	PASS
CA_7C	75RB+100RB	QPSK	21003+21174	75RB#0+100RB#0	32.73	33.97	PASS
CA_7C	75RB+100RB	16QAM	21003+21174	75RB#0+100RB#0	32.45	34.01	PASS
CA_7C	75RB+100RB	64QAM	21003+21174	75RB#0+100RB#0	32.63	33.89	PASS



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

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



CA_7C	75RB+100RB	QPSK	21179+21350	75RB#0+100RB#0	32.63	33.95	PASS
CA_7C	75RB+100RB	16QAM	21179+21350	75RB#0+100RB#0	32.55	33.95	PASS
CA_7C	75RB+100RB	64QAM	21179+21350	75RB#0+100RB#0	32.53	33.89	PASS
CA_7C	100RB+50RB	QPSK	20850+20994	100RB#0+50RB#0	27.56	29.11	PASS
CA_7C	100RB+50RB	16QAM	20850+20994	100RB#0+50RB#0	27.7	29.06	PASS
CA_7C	100RB+50RB	64QAM	20850+20994	100RB#0+50RB#0	27.68	29.08	PASS
CA_7C	100RB+50RB	QPSK	21051+21195	100RB#0+50RB#0	27.74	29.14	PASS
CA_7C	100RB+50RB	16QAM	21051+21195	100RB#0+50RB#0	27.67	29.05	PASS
CA_7C	100RB+50RB	64QAM	21051+21195	100RB#0+50RB#0	27.79	29.00	PASS
CA_7C	100RB+50RB	QPSK	21251+21395	100RB#0+50RB#0	27.55	29.08	PASS
CA_7C	100RB+50RB	16QAM	21251+21395	100RB#0+50RB#0	27.49	29.02	PASS
CA_7C	100RB+50RB	64QAM	21251+21395	100RB#0+50RB#0	27.73	29.02	PASS
CA_7C	100RB+75RB	QPSK	20850+21021	100RB#0+75RB#0	32.55	33.93	PASS
CA_7C	100RB+75RB	16QAM	20850+21021	100RB#0+75RB#0	32.67	33.97	PASS
CA_7C	100RB+75RB	64QAM	20850+21021	100RB#0+75RB#0	32.55	33.97	PASS
CA_7C	100RB+75RB	QPSK	21026+21197	100RB#0+75RB#0	32.75	33.95	PASS
CA_7C	100RB+75RB	16QAM	21026+21197	100RB#0+75RB#0	32.63	34.01	PASS
CA_7C	100RB+75RB	64QAM	21026+21197	100RB#0+75RB#0	32.57	33.93	PASS
CA_7C	100RB+75RB	QPSK	21201+21372	100RB#0+75RB#0	32.69	33.89	PASS
CA_7C	100RB+75RB	16QAM	21201+21372	100RB#0+75RB#0	32.55	33.95	PASS
CA_7C	100RB+75RB	64QAM	21201+21372	100RB#0+75RB#0	32.53	33.97	PASS
CA_7C	100RB+100RB	QPSK	20850+21048	100RB#0+100RB#0	37.37	38.91	PASS
CA_7C	100RB+100RB	16QAM	20850+21048	100RB#0+100RB#0	37.37	38.85	PASS
CA_7C	100RB+100RB	64QAM	20850+21048	100RB#0+100RB#0	37.07	38.73	PASS
CA_7C	100RB+100RB	QPSK	21001+21199	100RB#0+100RB#0	37.49	38.95	PASS
CA_7C	100RB+100RB	16QAM	21001+21199	100RB#0+100RB#0	37.49	38.97	PASS
CA_7C	100RB+100RB	64QAM	21001+21199	100RB#0+100RB#0	37.11	38.87	PASS
CA_7C	100RB+100RB	QPSK	21152+21350	100RB#0+100RB#0	36.77	38.85	PASS
CA_7C	100RB+100RB	16QAM	21152+21350	100RB#0+100RB#0	37.05	38.81	PASS
CA_7C	100RB+100RB	64QAM	21152+21350	100RB#0+100RB#0	37.31	38.79	PASS

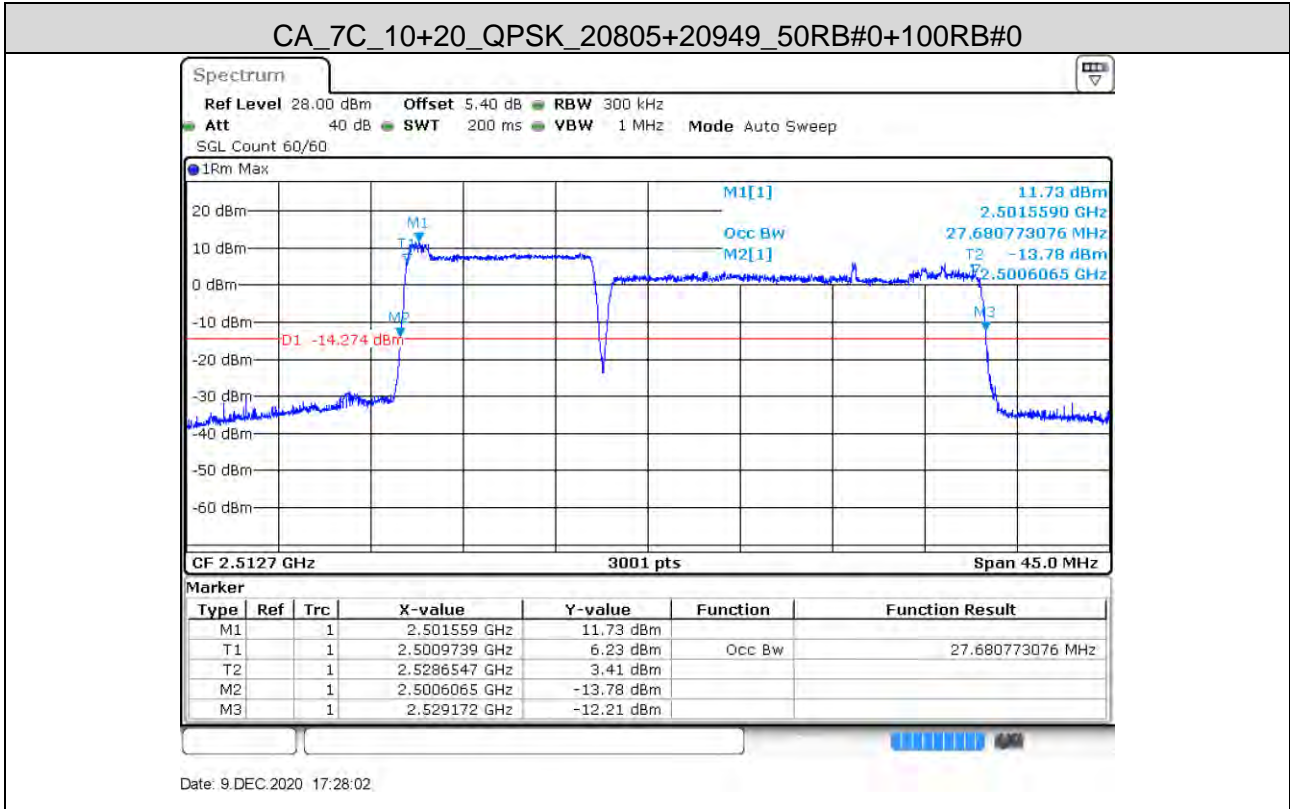


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

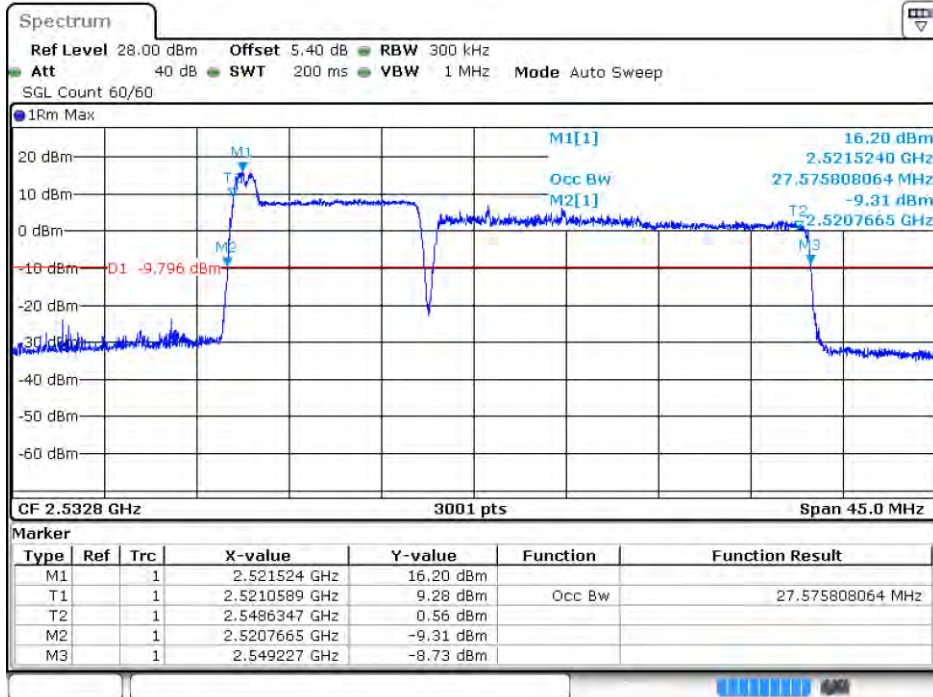
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 26012053, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

4.1 For LTE

4.1.1 Test Band = LTE Band CA_7C

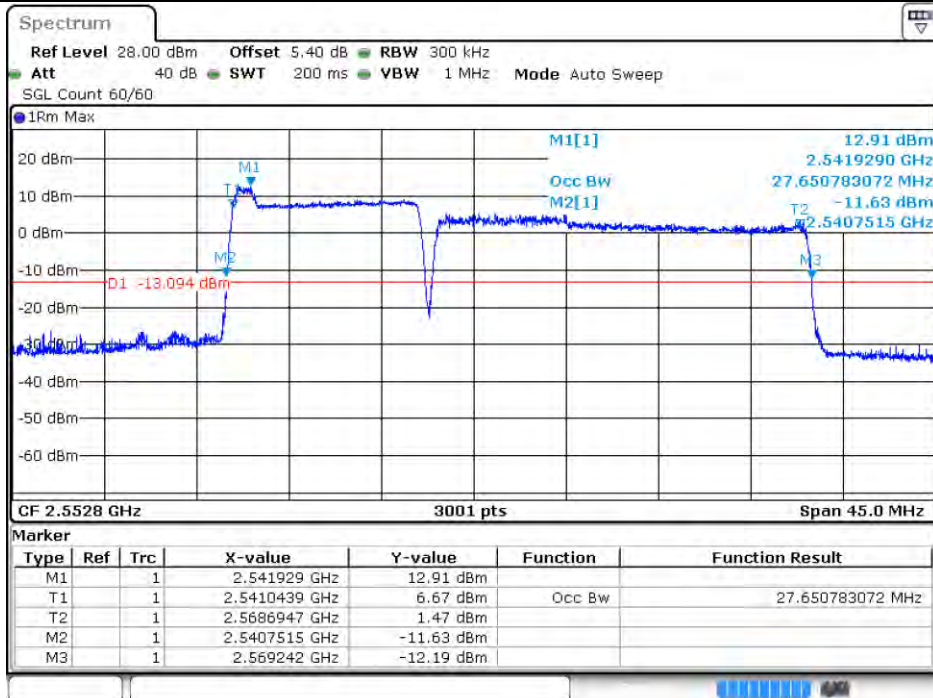


CA_7C_10+20_QPSK_21006+21150_50RB#0+100RB#0



Date: 9.DEC.2020 17:29:12

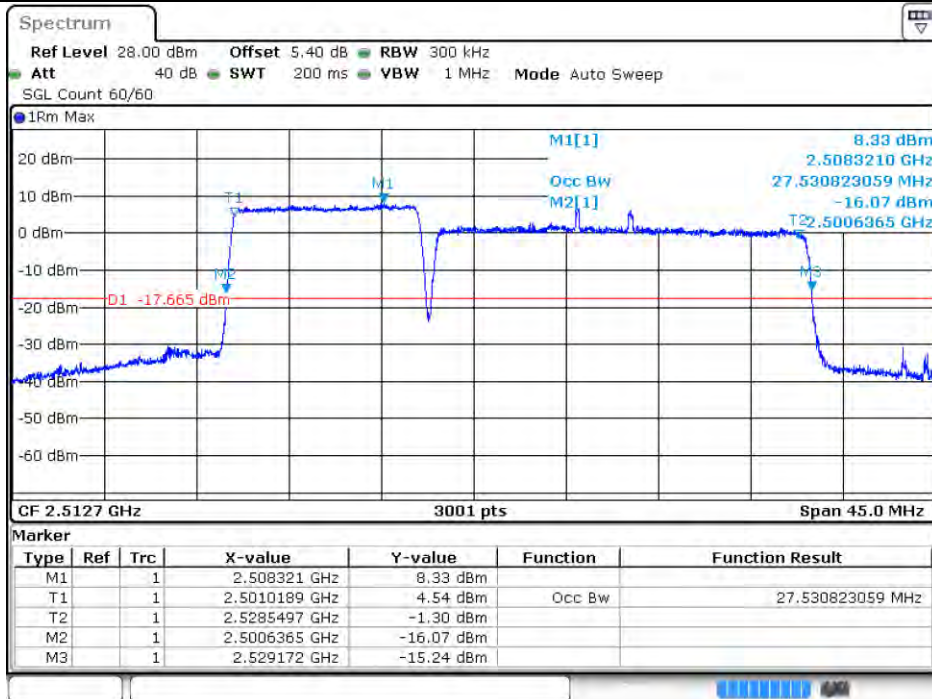
CA_7C_10+20_QPSK_21206+21350_50RB#0+100RB#0



Date: 9.DEC.2020 17:30:22

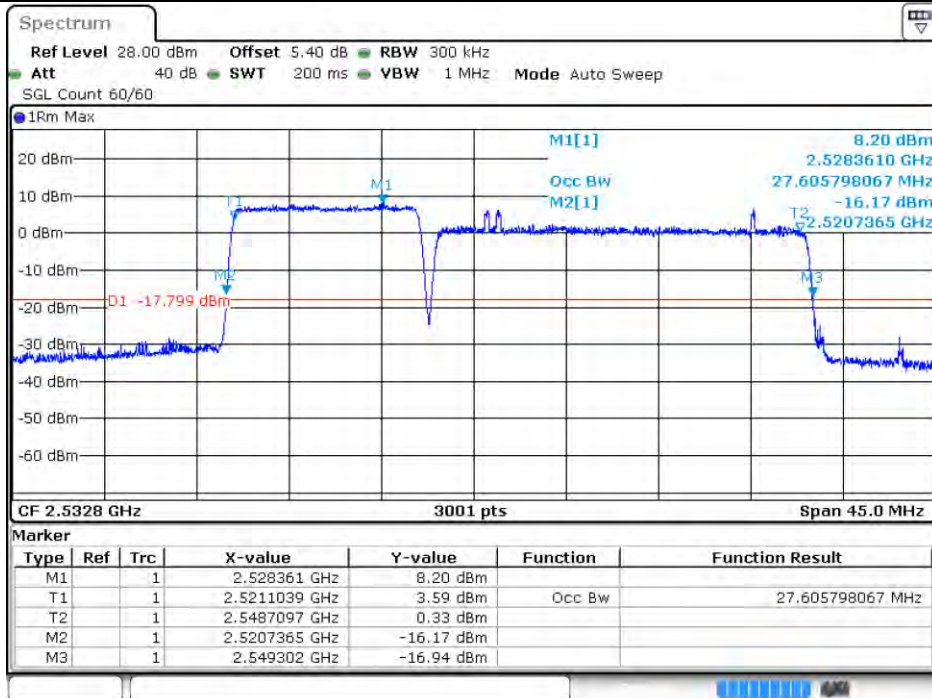


CA_7C_10+20_16QAM_20805+20949_50RB#0+100RB#0



Date: 9.DEC.2020 17:28:20

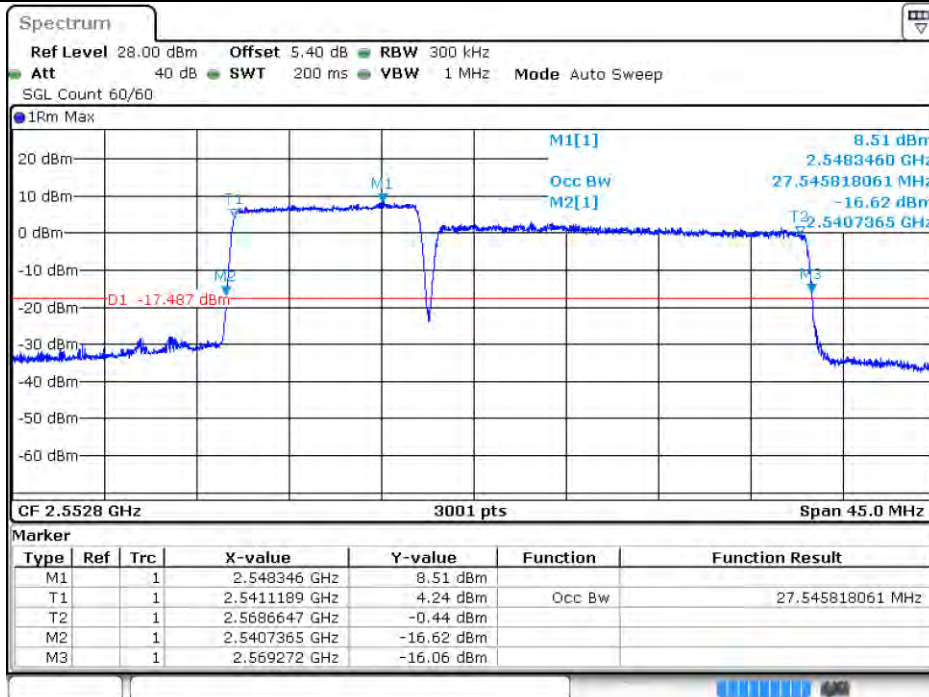
CA_7C_10+20_16QAM_21006+21150_50RB#0+100RB#0



Date: 9.DEC.2020 17:29:31

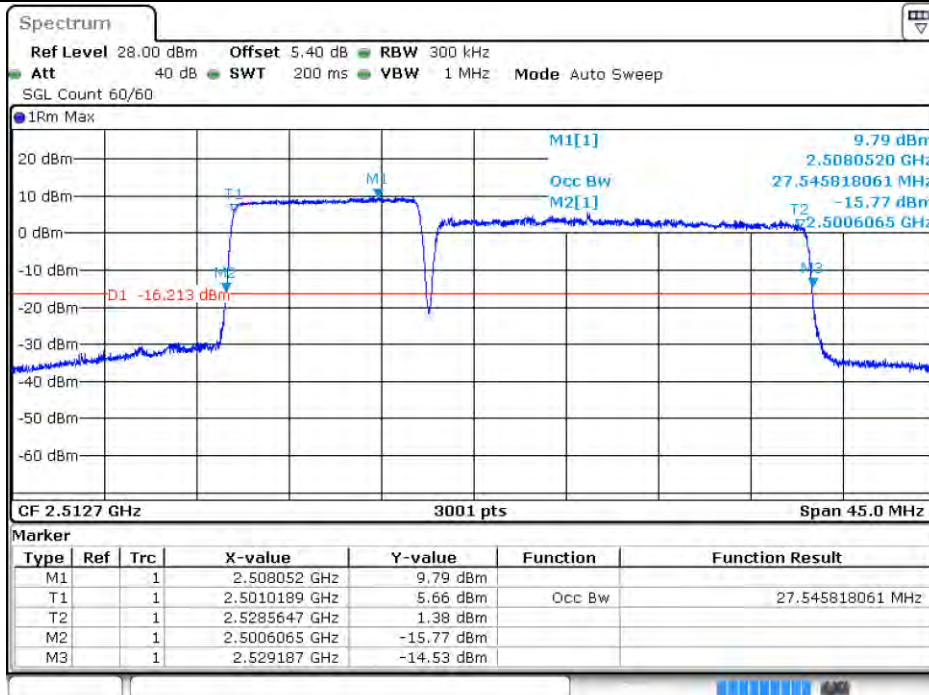


CA_7C_10+20_16QAM_21206+21350_50RB#0+100RB#0



Date: 9.DEC.2020 17:30:41

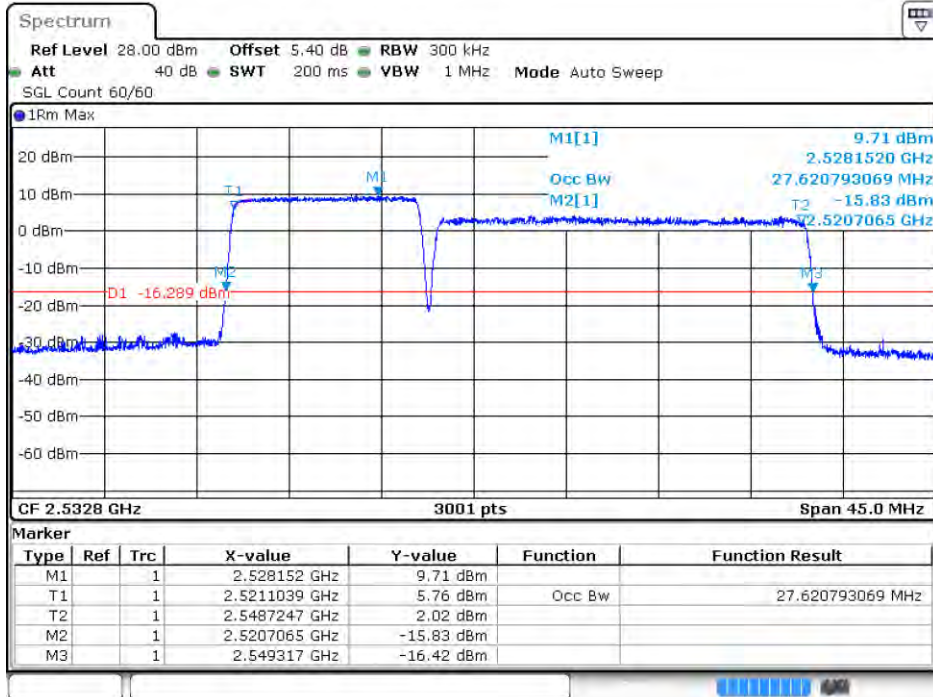
CA_7C_10+20_64QAM_20805+20949_50RB#0+100RB#0



Date: 9.DEC.2020 17:28:40

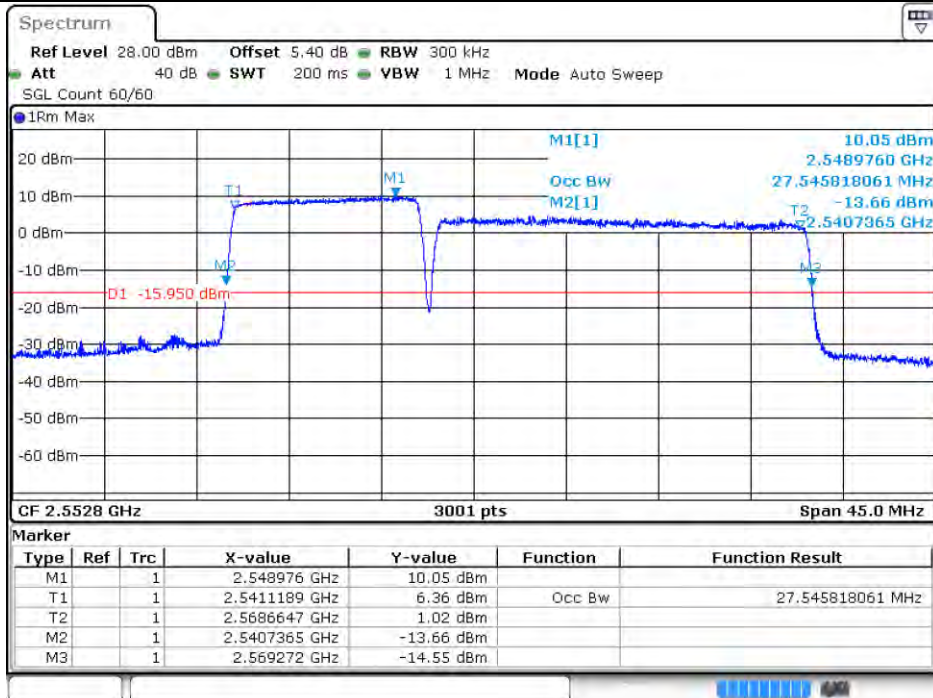


CA_7C_10+20_64QAM_21006+21150_50RB#0+100RB#0



Date: 9.DEC.2020 17:29:50

CA_7C_10+20_64QAM_21206+21350_50RB#0+100RB#0



Date: 9.DEC.2020 17:31:00

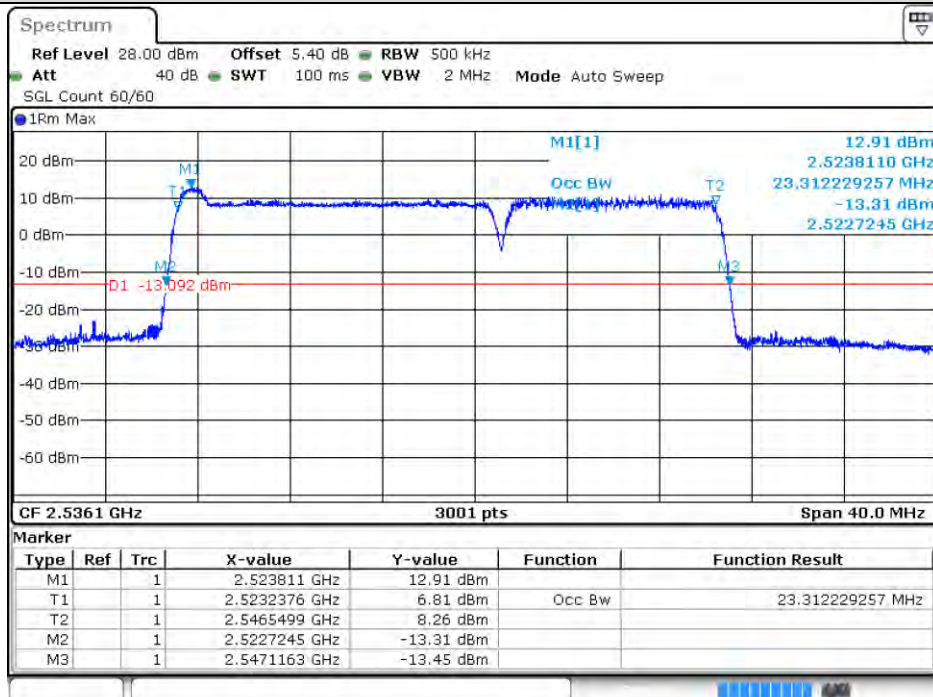


CA_7C_15+10_QPSK_20825+20945_75RB#0+50RB#0



Date: 9.DEC.2020 18:43:43

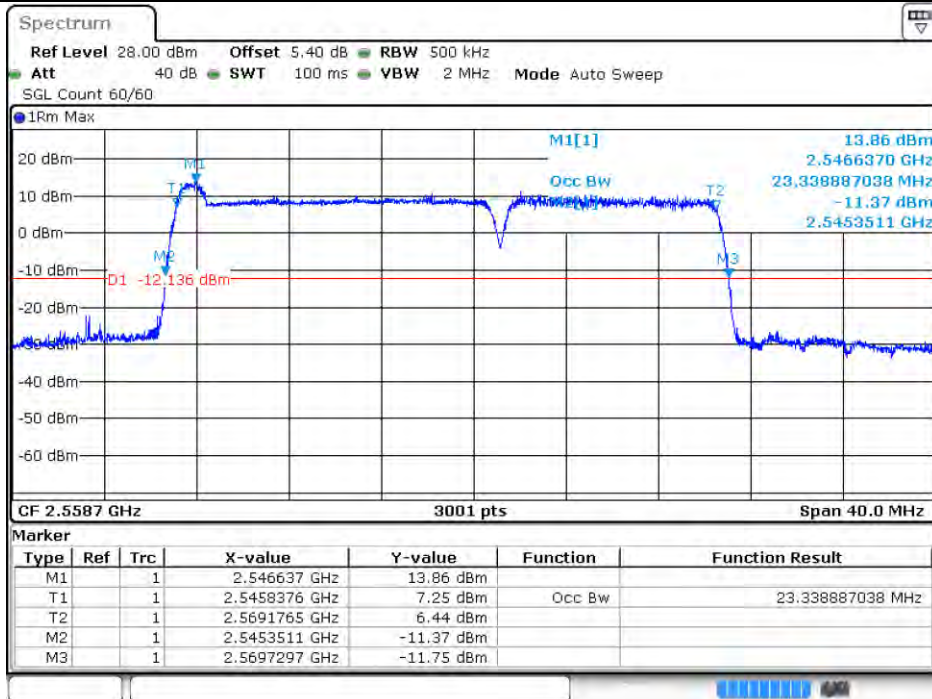
CA_7C_15+10_QPSK_21051+21171_75RB#0+50RB#0



Date: 9.DEC.2020 18:44:27

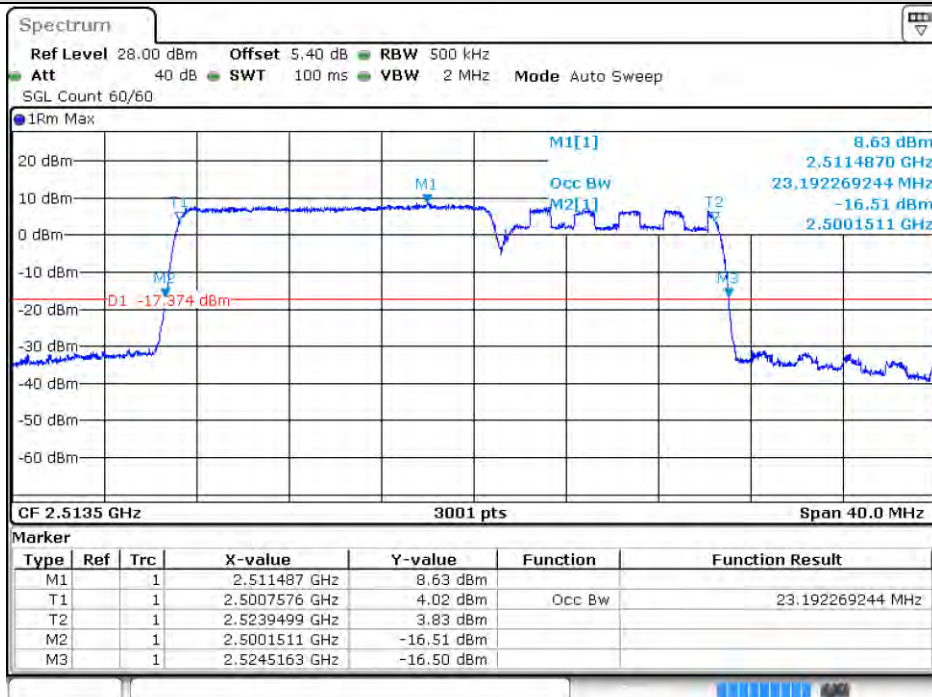


CA_7C_15+10_QPSK_21277+21397_75RB#0+50RB#0



Date: 9.DEC.2020 18:45:09

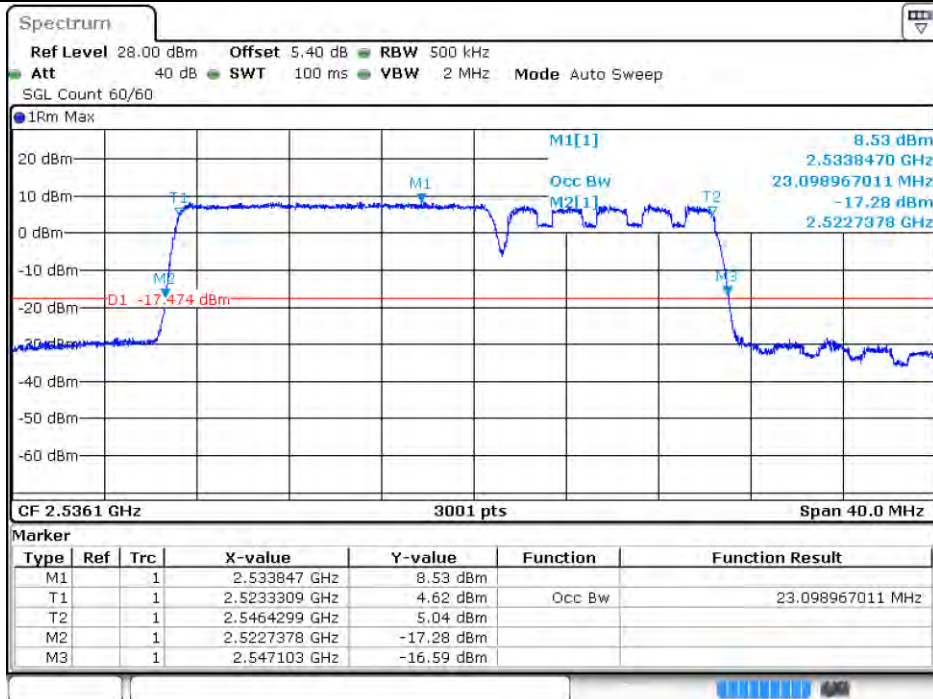
CA_7C_15+10_16QAM_20825+20945_75RB#0+50RB#0



Date: 9.DEC.2020 18:43:56

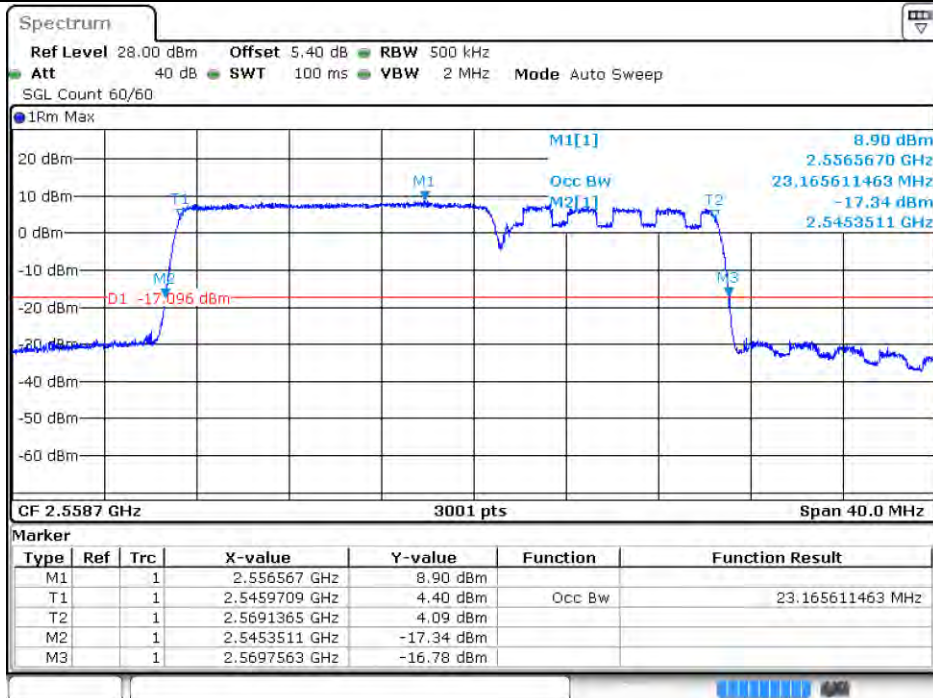


CA_7C_15+10_16QAM_21051+21171_75RB#0+50RB#0



Date: 9.DEC.2020 18:44:40

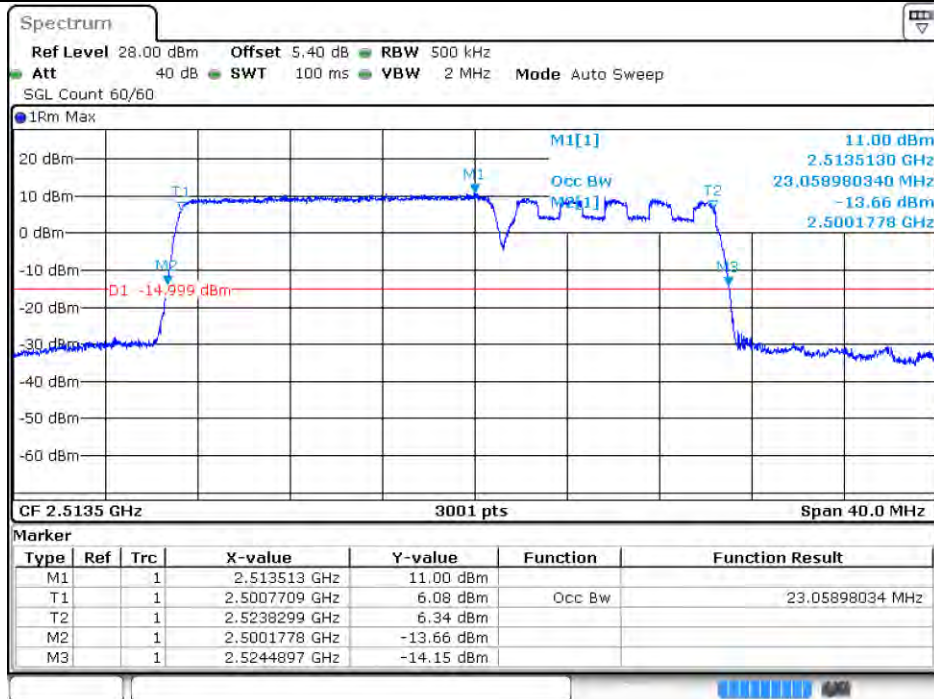
CA_7C_15+10_16QAM_21277+21397_75RB#0+50RB#0



Date: 9.DEC.2020 18:45:22

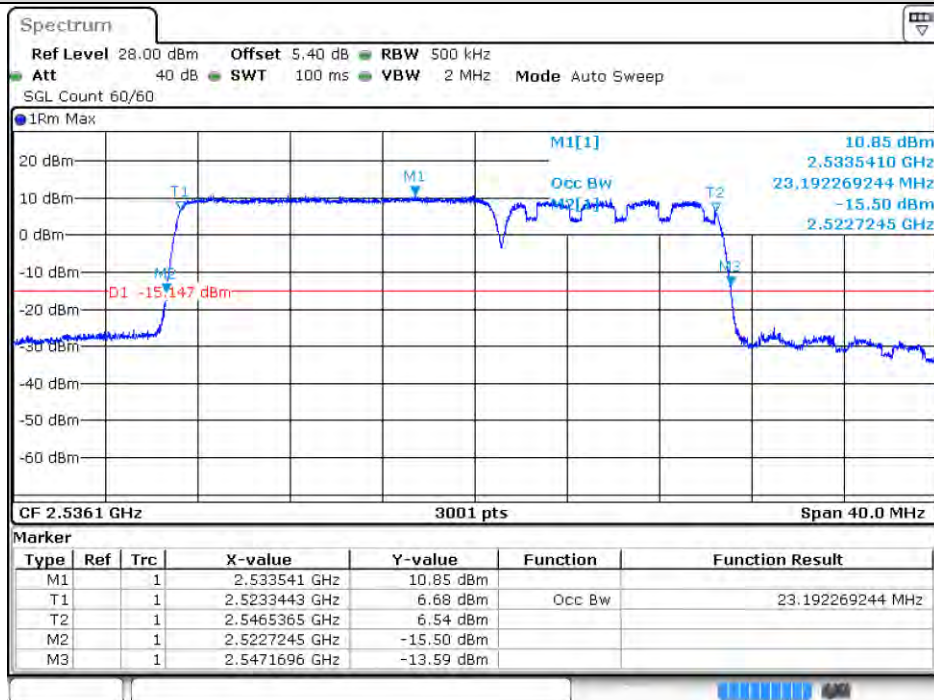


CA_7C_15+10_64QAM_20825+20945_75RB#0+50RB#0



Date: 9.DEC.2020 18:44:10

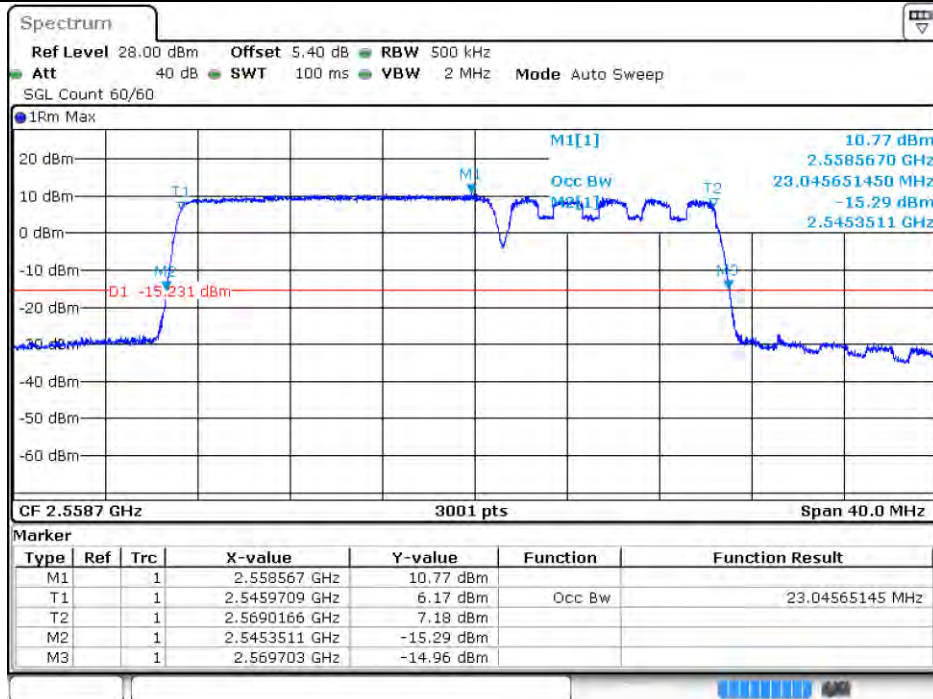
CA_7C_15+10_64QAM_21051+21171_75RB#0+50RB#0



Date: 9.DEC.2020 18:44:52

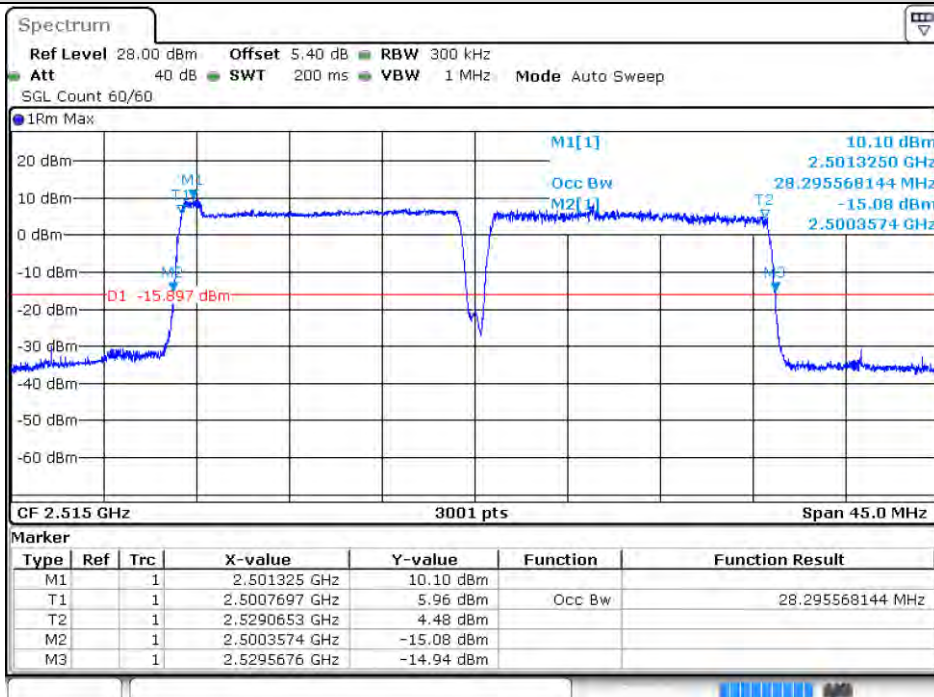


CA_7C_15+10_64QAM_21277+21397_75RB#0+50RB#0



Date: 9.DEC.2020 18:45:35

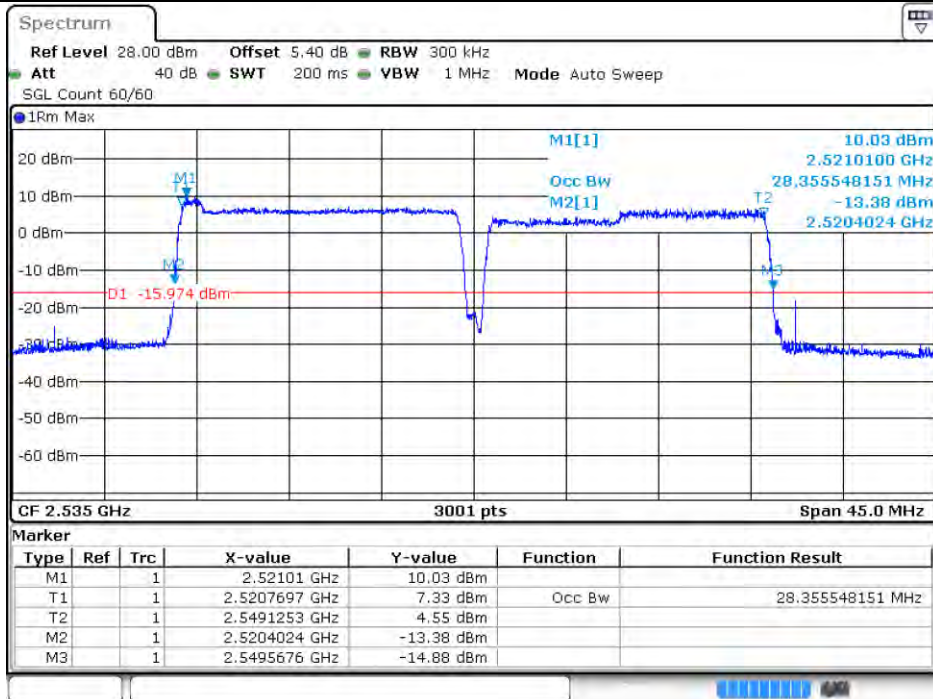
CA_7C_15+15_QPSK_20825+20975_75RB#0+75RB#0



Date: 9.DEC.2020 17:50:29

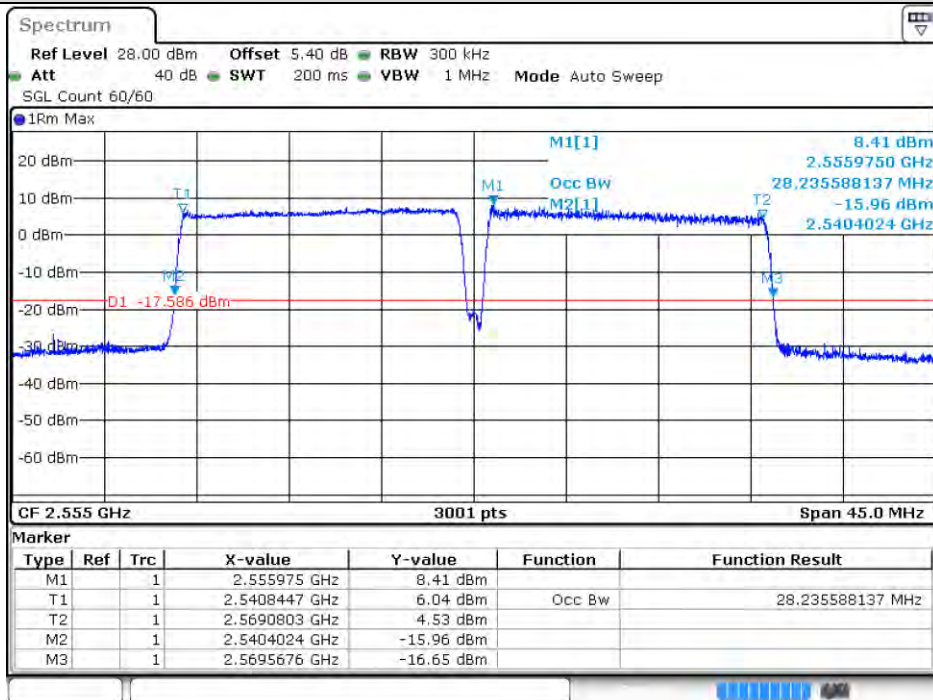


CA_7C_15+15_QPSK_21025+21175_75RB#0+75RB#0



Date: 9.DEC.2020 17:53:02

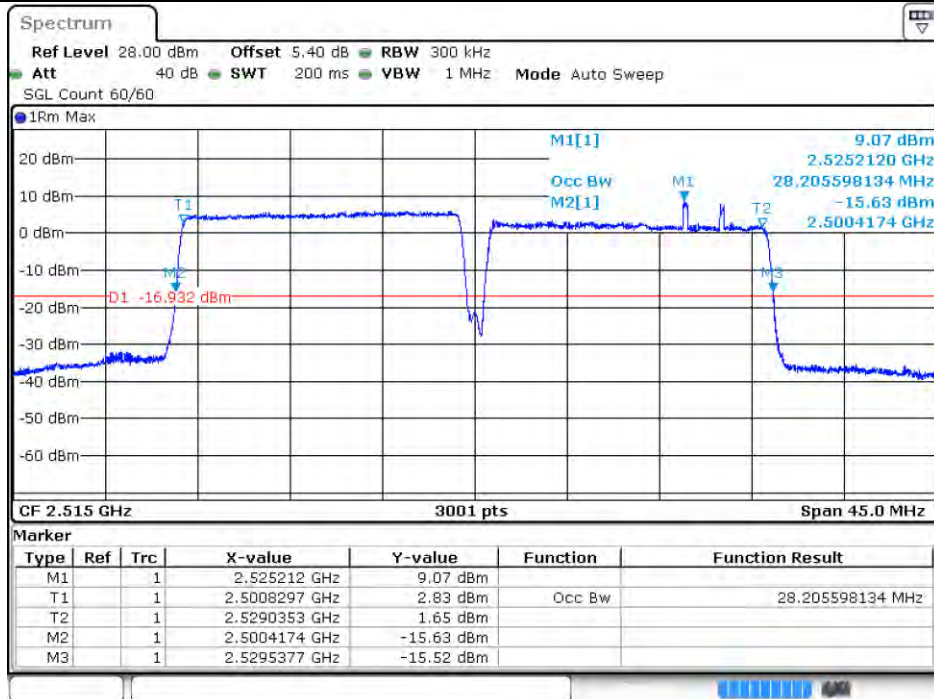
CA_7C_15+15_QPSK_21225+21375_75RB#0+75RB#0



Date: 9.DEC.2020 17:54:21

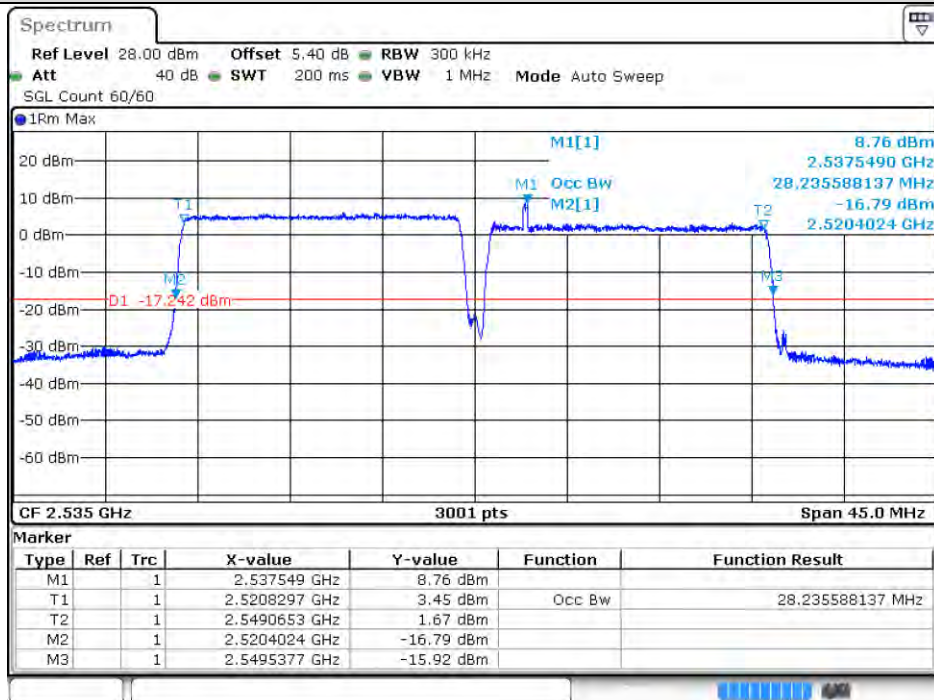


CA_7C_15+15_16QAM_20825+20975_75RB#0+75RB#0



Date: 9.DEC.2020 17:50:47

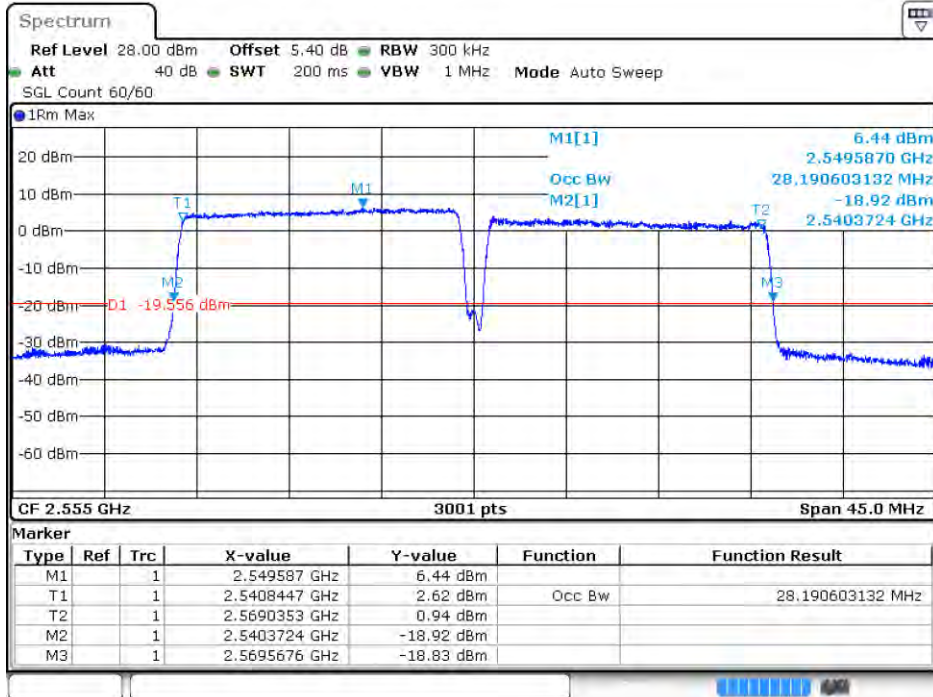
CA_7C_15+15_16QAM_21025+21175_75RB#0+75RB#0



Date: 9.DEC.2020 17:53:21

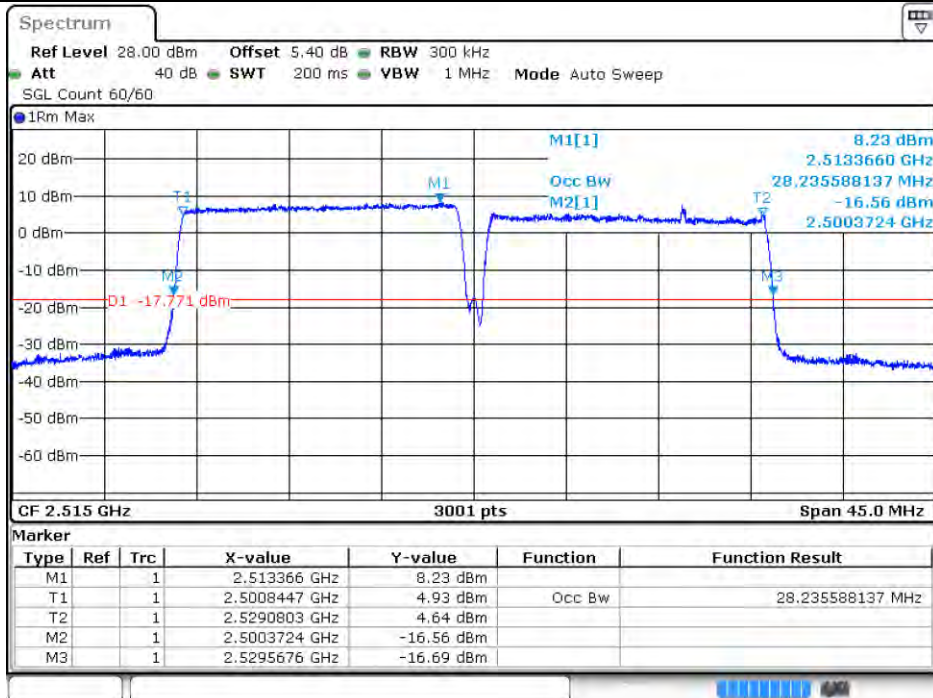


CA_7C_15+15_16QAM_21225+21375_75RB#0+75RB#0



Date: 9.DEC.2020 17:54:39

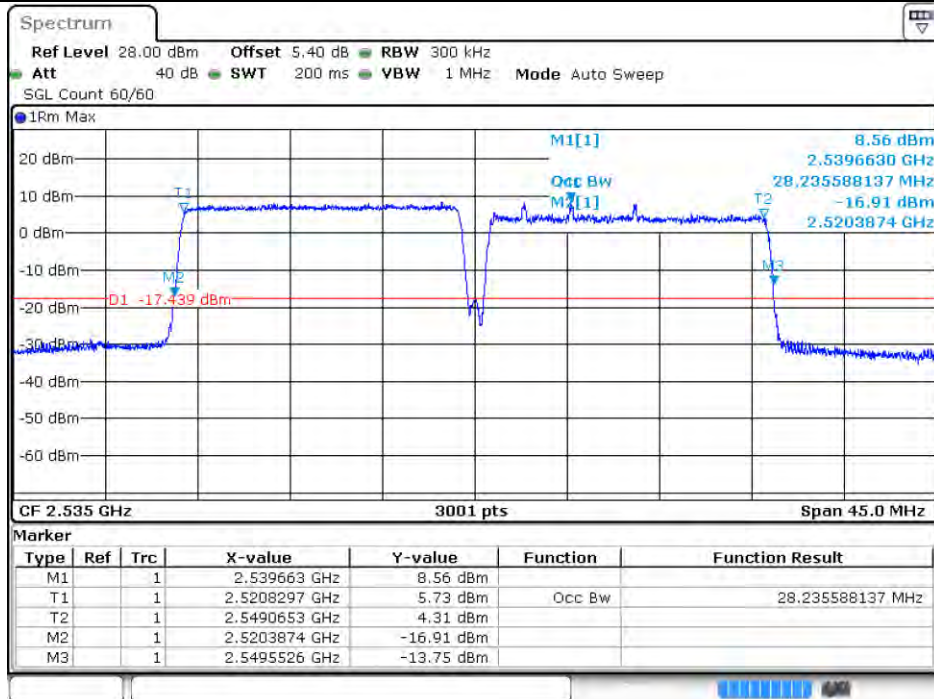
CA_7C_15+15_64QAM_20825+20975_75RB#0+75RB#0



Date: 9.DEC.2020 17:51:06

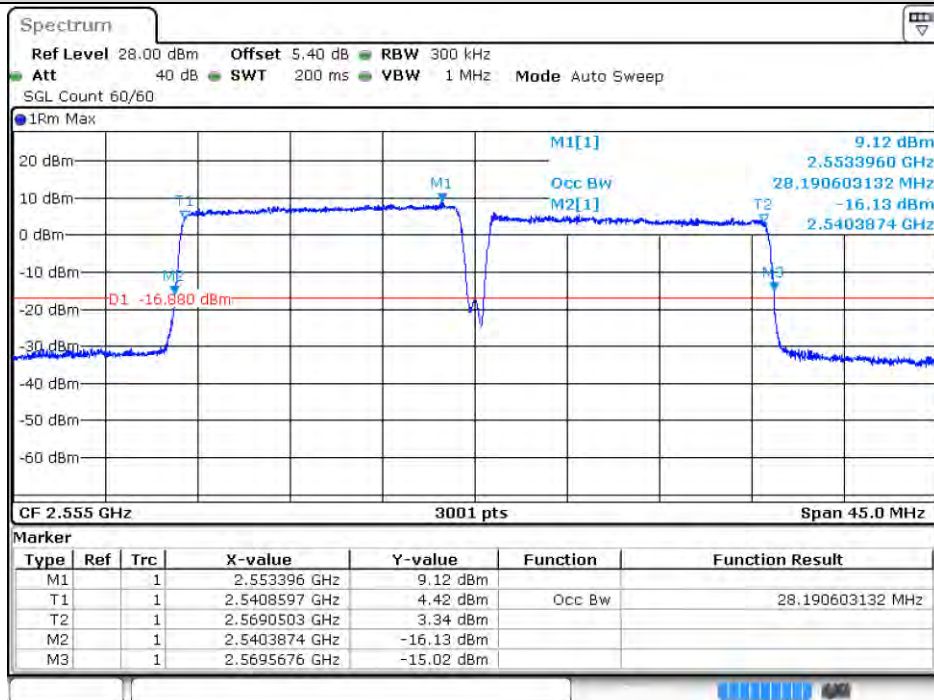


CA_7C_15+15_64QAM_21025+21175_75RB#0+75RB#0



Date: 9.DEC.2020 17:53:39

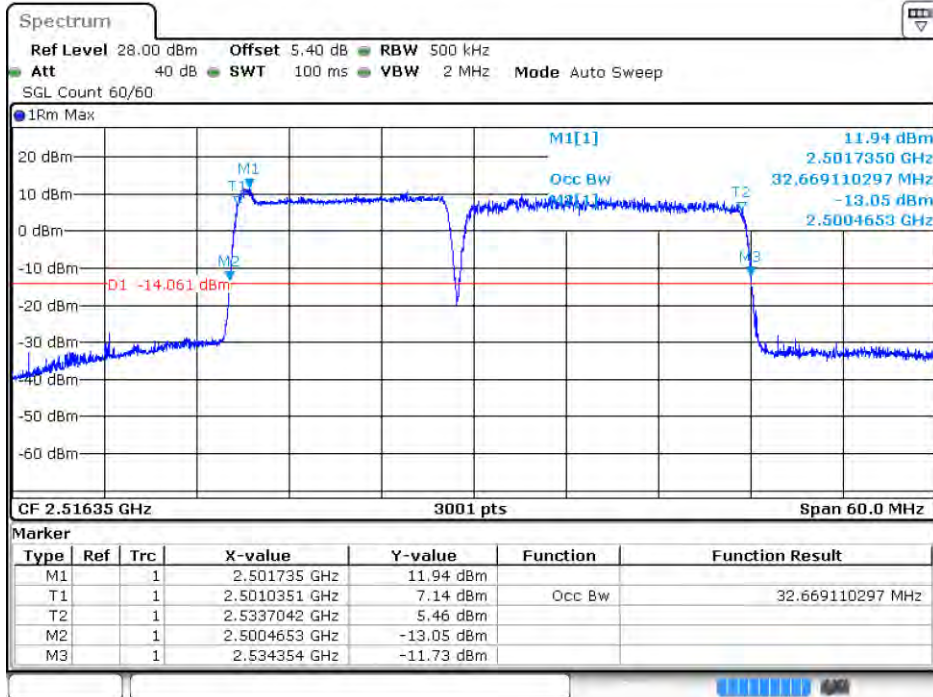
CA_7C_15+15_64QAM_21225+21375_75RB#0+75RB#0



Date: 9.DEC.2020 17:54:58

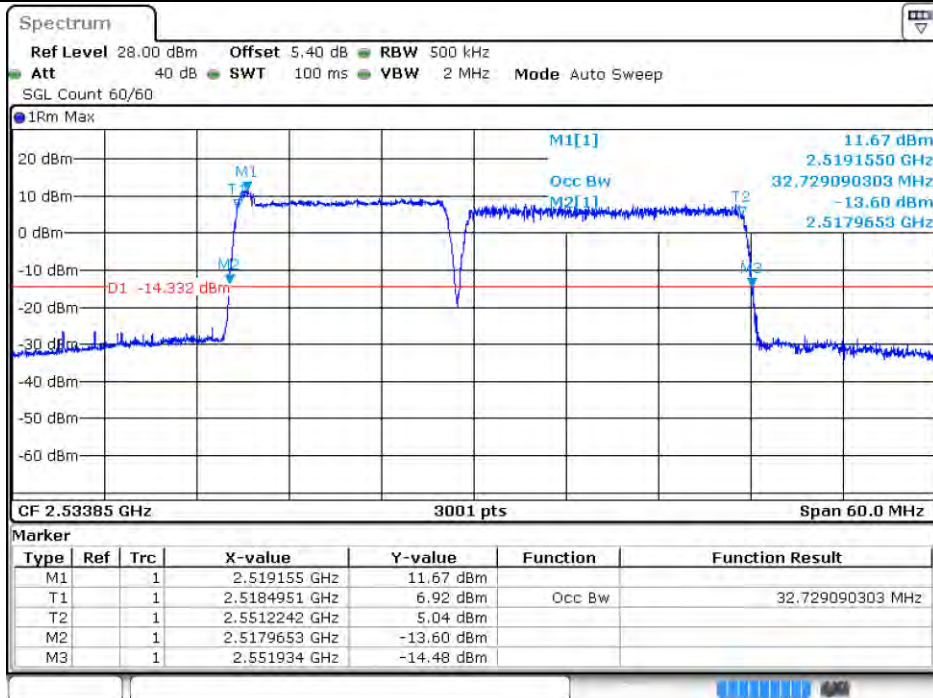


CA_7C_15+20_QPSK_20828+20999_75RB#0+100RB#0



Date: 9.DEC.2020 17:55:39

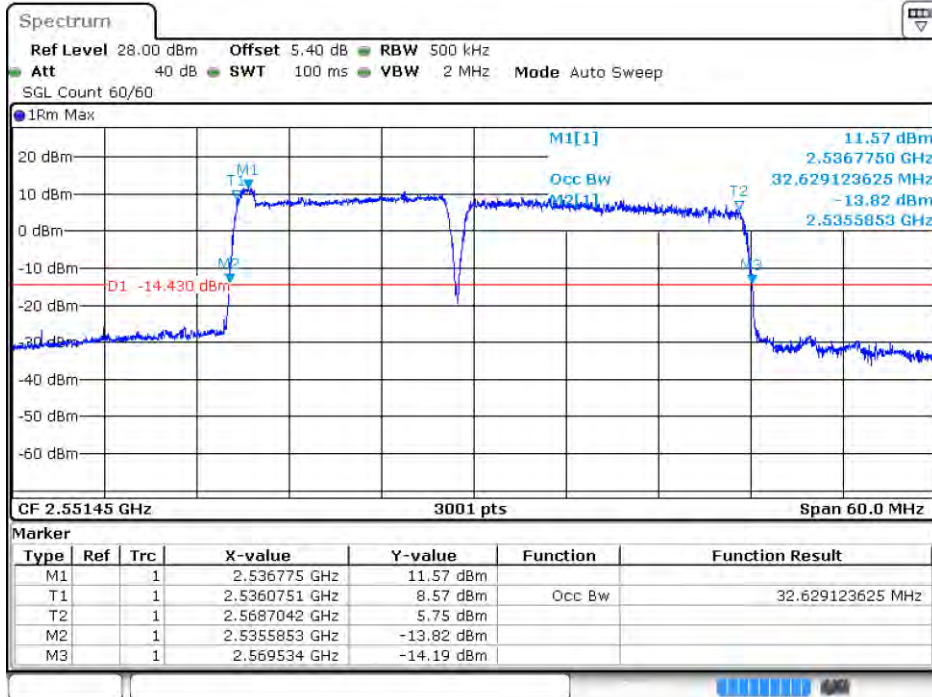
CA_7C_15+20_QPSK_21003+21174_75RB#0+100RB#0



Date: 9.DEC.2020 17:57:57

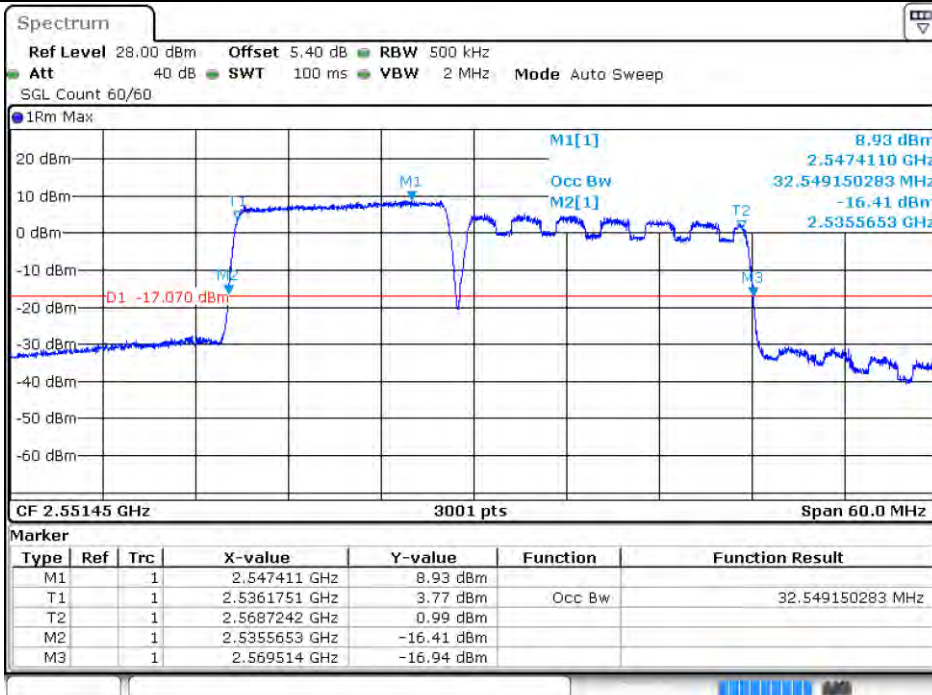


CA_7C_15+20_QPSK_21179+21350_75RB#0+100RB#0



Date: 9.DEC.2020 17:59:48

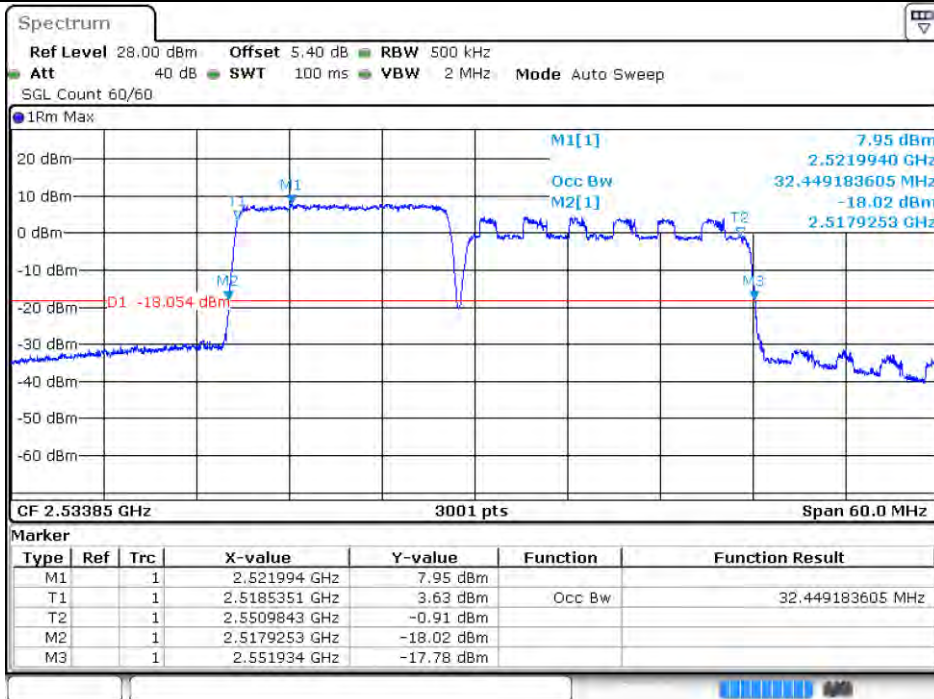
CA_7C_15+20_16QAM_20828+20999_75RB#0+100RB#0



Date: 9.DEC.2020 18:00:01

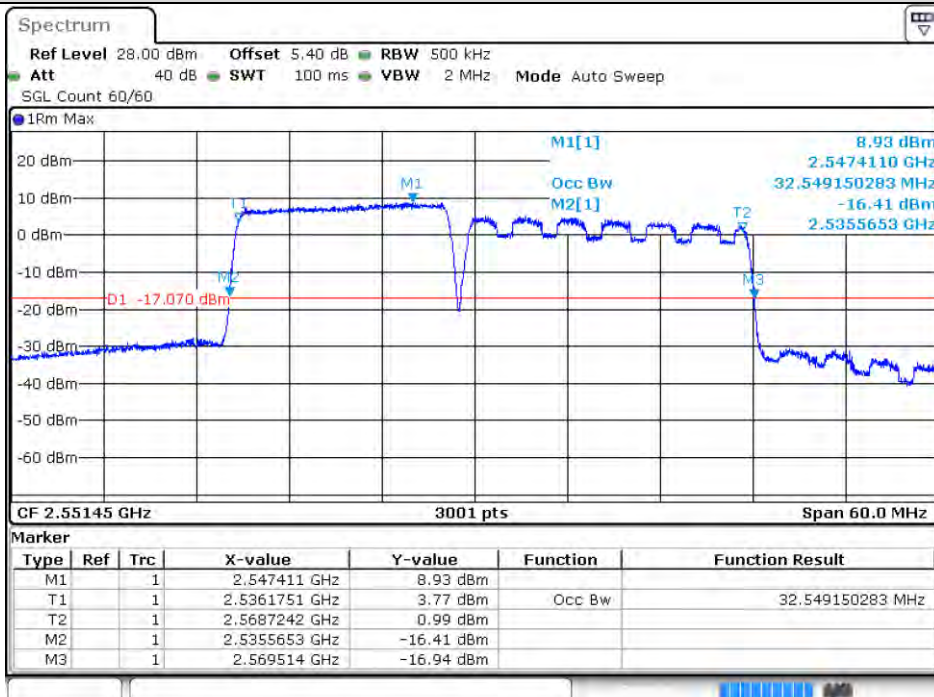


CA_7C_15+20_16QAM_21003+21174_75RB#0+100RB#0



Date: 9.DEC.2020 17:58:11

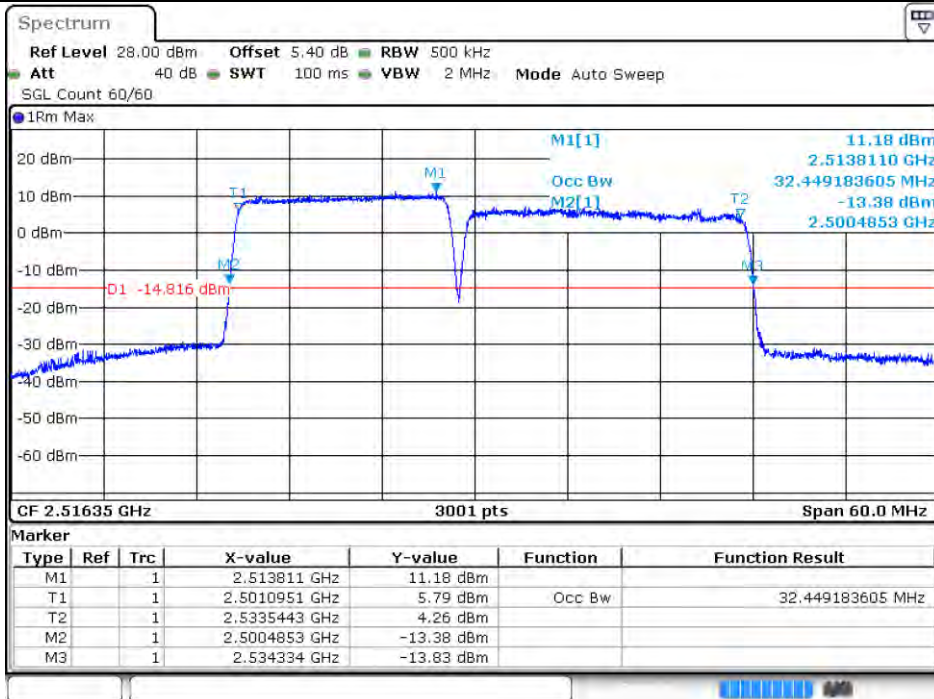
CA_7C_15+20_16QAM_21179+21350_75RB#0+100RB#0



Date: 9.DEC.2020 18:00:01

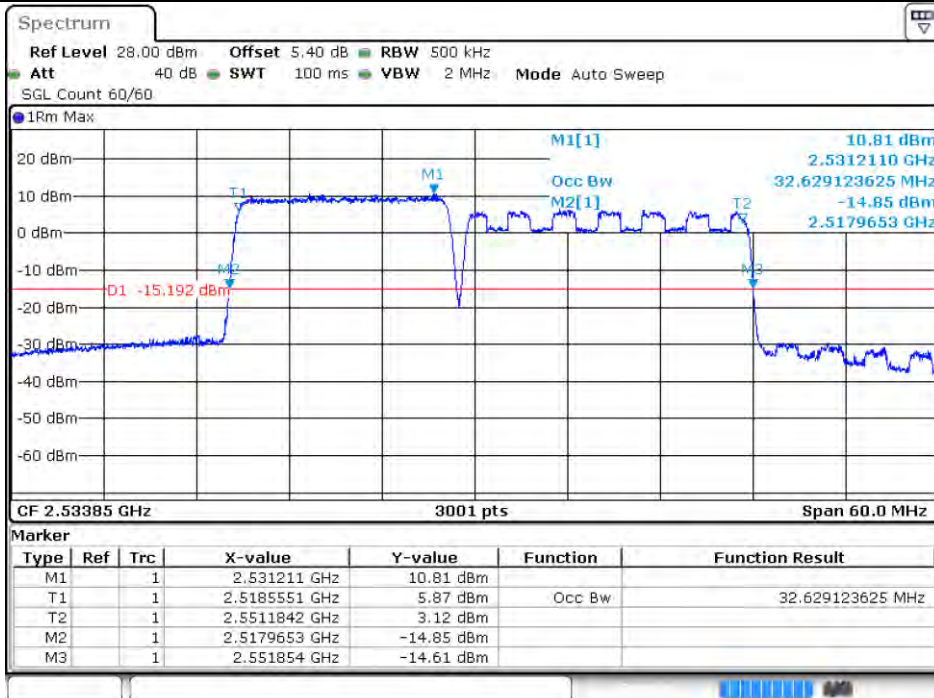


CA_7C_15+20_64QAM_20828+20999_75RB#0+100RB#0



Date: 9.DEC.2020 17:56:06

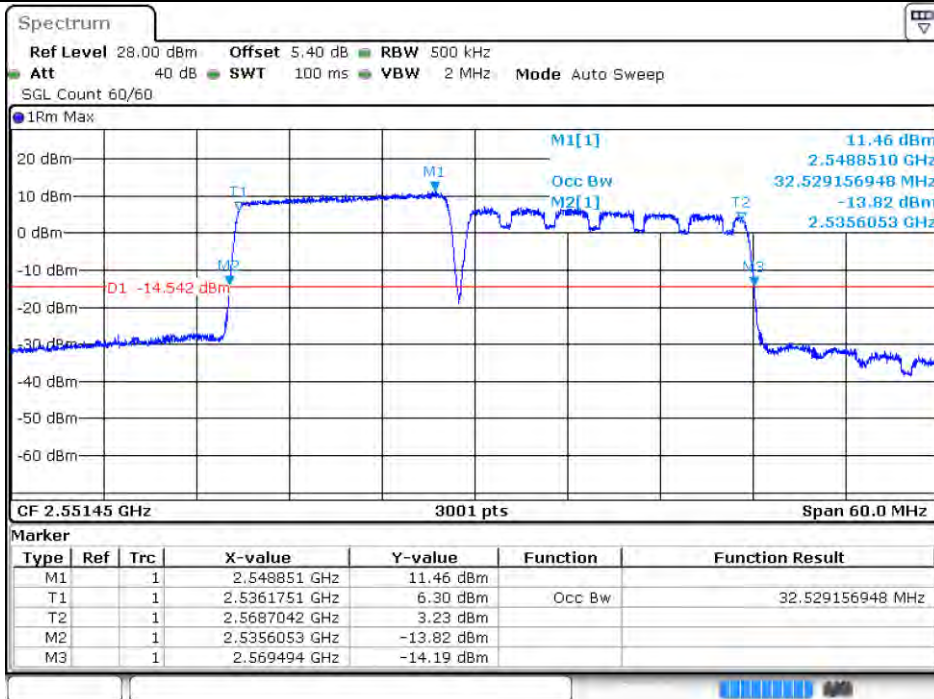
CA_7C_15+20_64QAM_21003+21174_75RB#0+100RB#0



Date: 9.DEC.2020 17:58:24

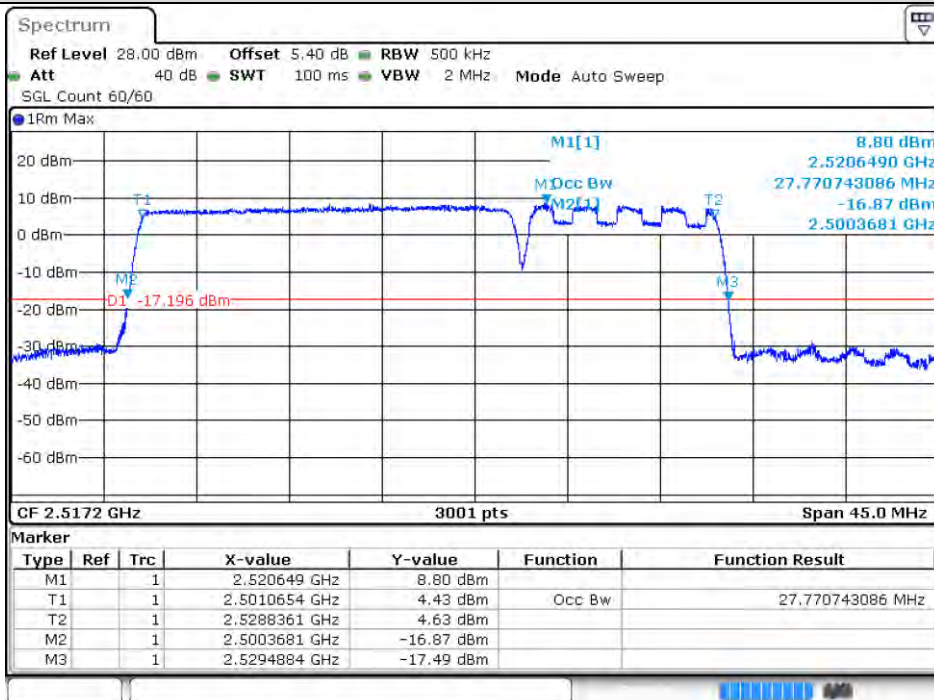


CA_7C_15+20_64QAM_21179+21350_75RB#0+100RB#0



Date: 9.DEC.2020 18:00:15

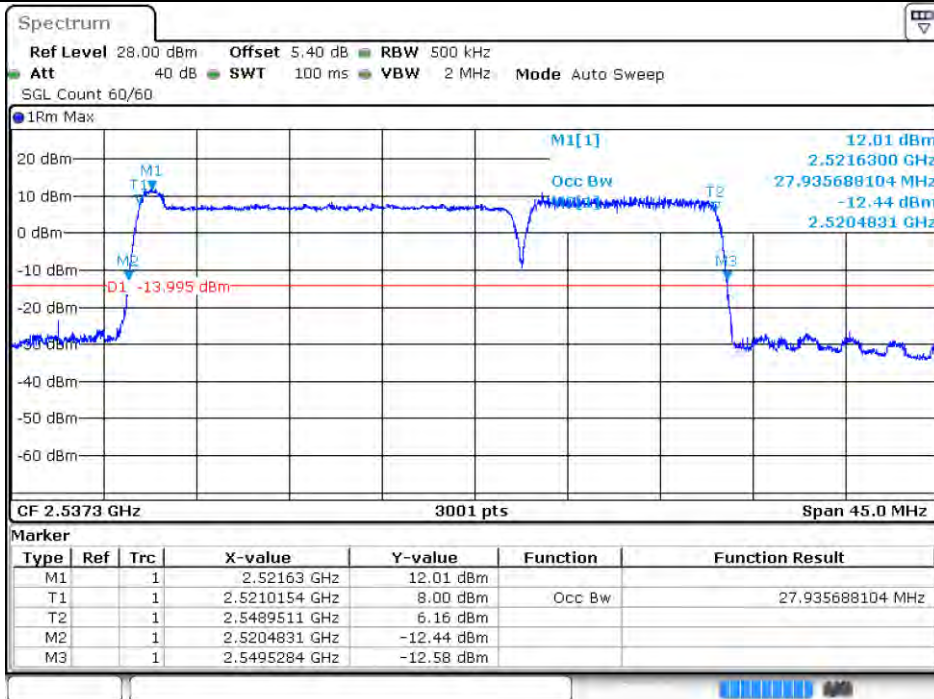
CA_7C_20+10_QPSK_20850+20994_100RB#0+50RB#0



Date: 9.DEC.2020 17:32:51

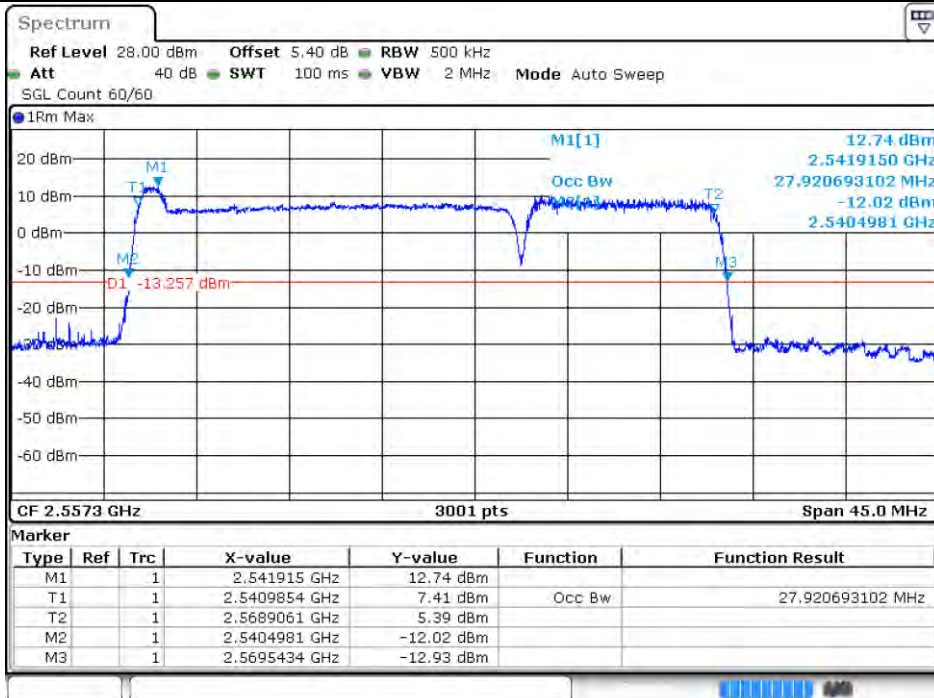


CA_7C_20+10_QPSK_21051+21195_100RB#0+50RB#0



Date: 9.DEC.2020 17:33:32

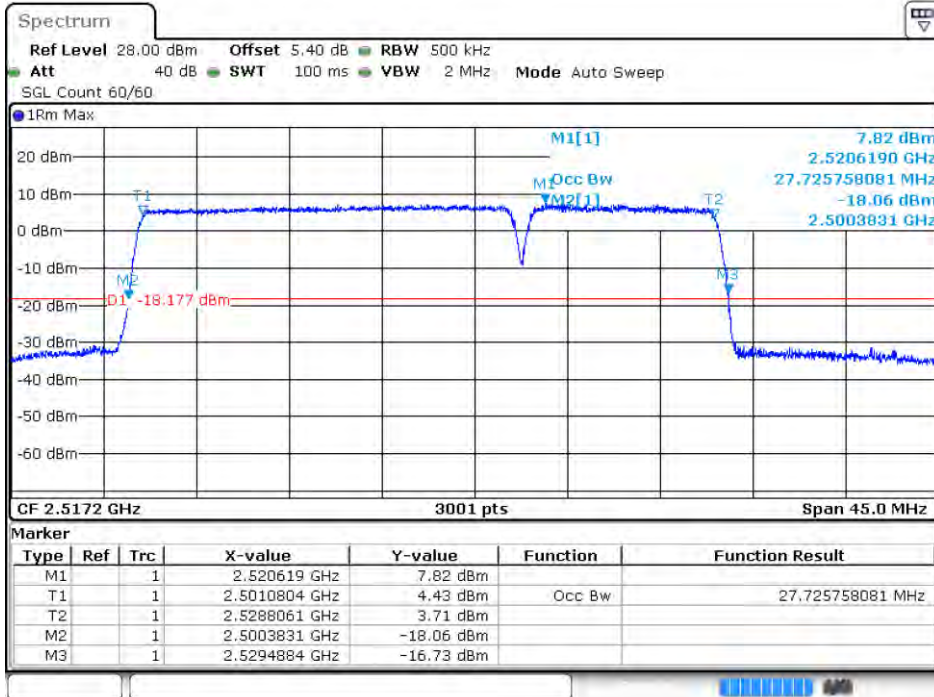
CA_7C_20+10_QPSK_21251+21395_100RB#0+50RB#0



Date: 9.DEC.2020 17:34:13

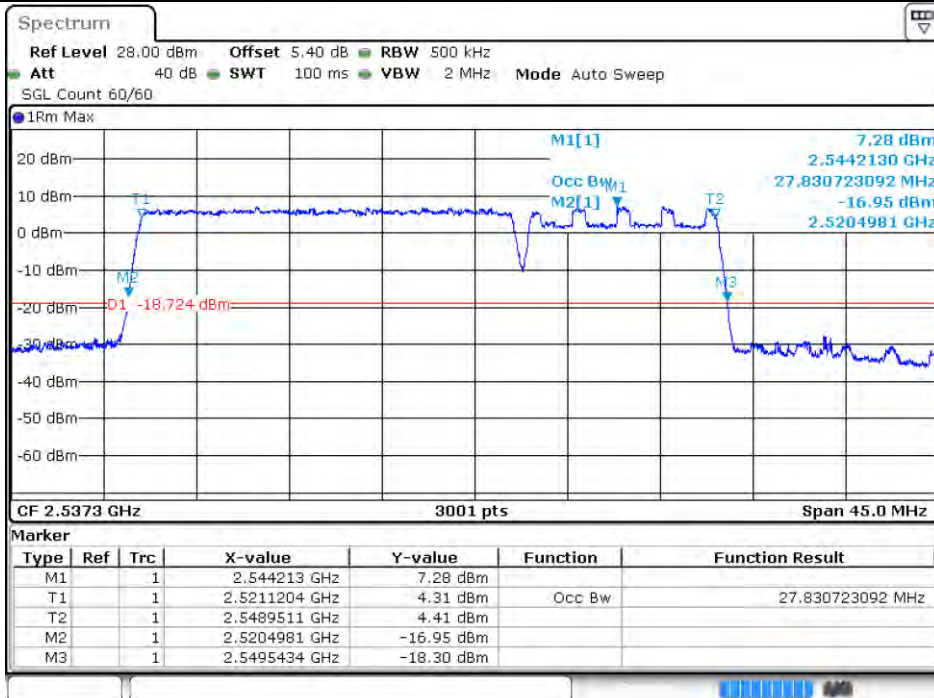


CA_7C_20+10_16QAM_20850+20994_100RB#0+50RB#0



Date: 9.DEC.2020 17:33:04

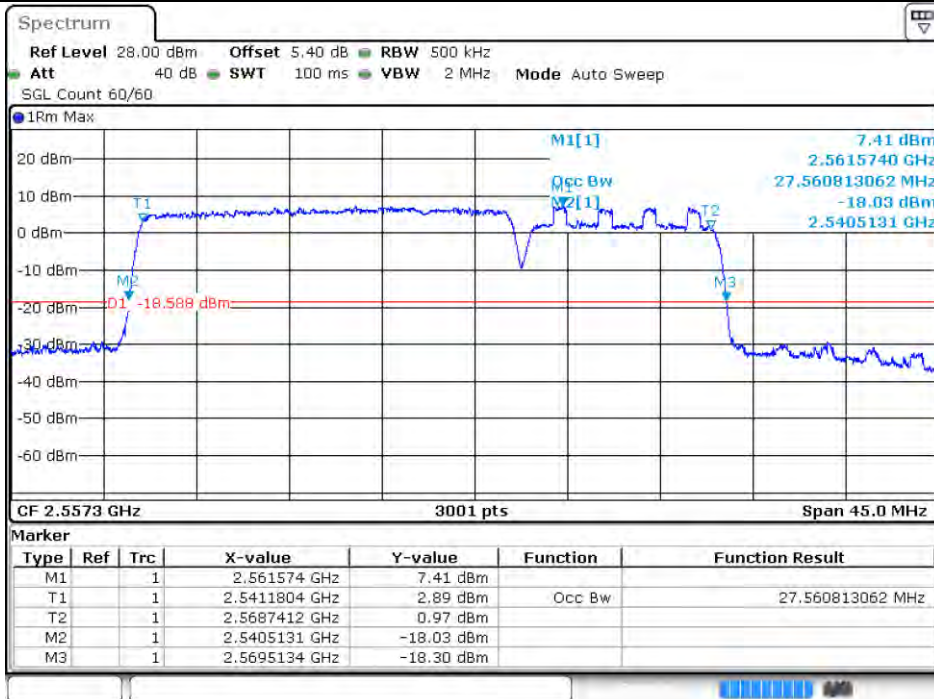
CA_7C_20+10_16QAM_21051+21195_100RB#0+50RB#0



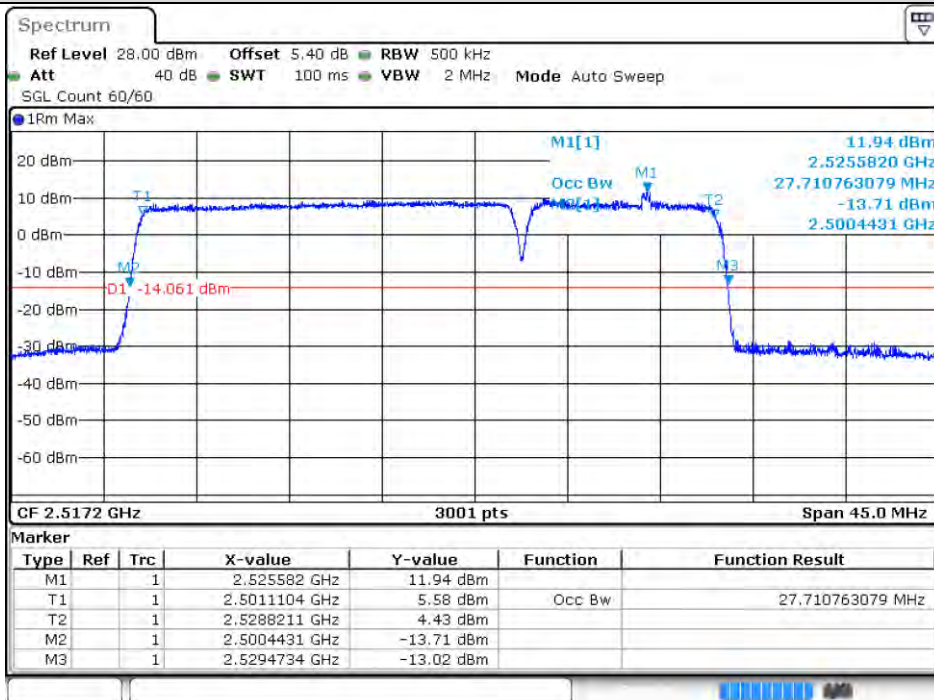
Date: 9.DEC.2020 17:33:44



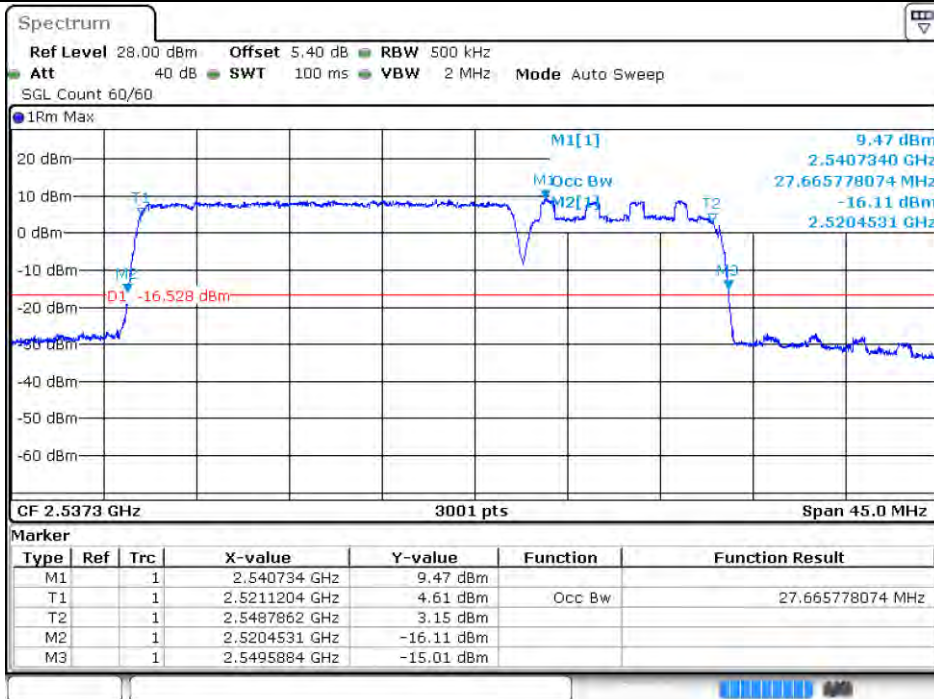
CA_7C_20+10_16QAM_21251+21395_100RB#0+50RB#0



CA_7C_20+10_64QAM_20850+20994_100RB#0+50RB#0

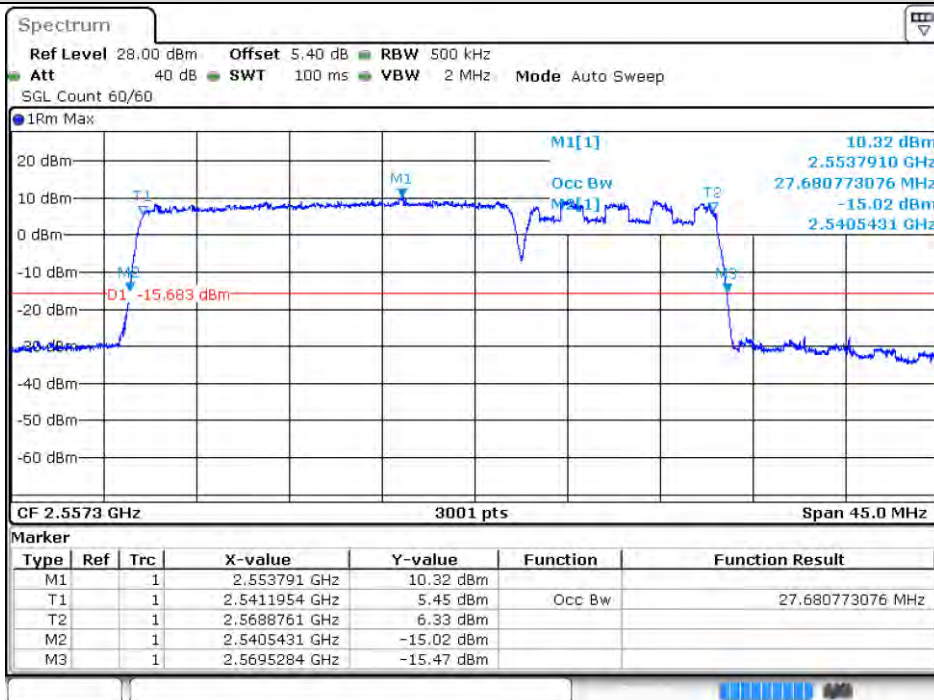


CA_7C_20+10_64QAM_21051+21195_100RB#0+50RB#0



Date: 9.DEC.2020 17:33:57

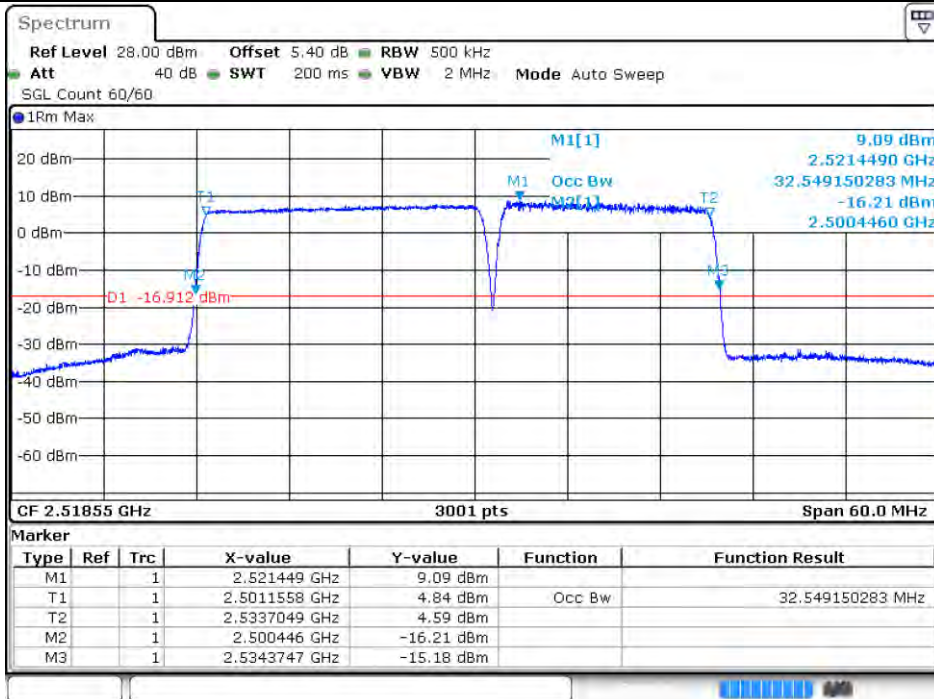
CA_7C_20+10_64QAM_21251+21395_100RB#0+50RB#0



Date: 9.DEC.2020 17:34:38

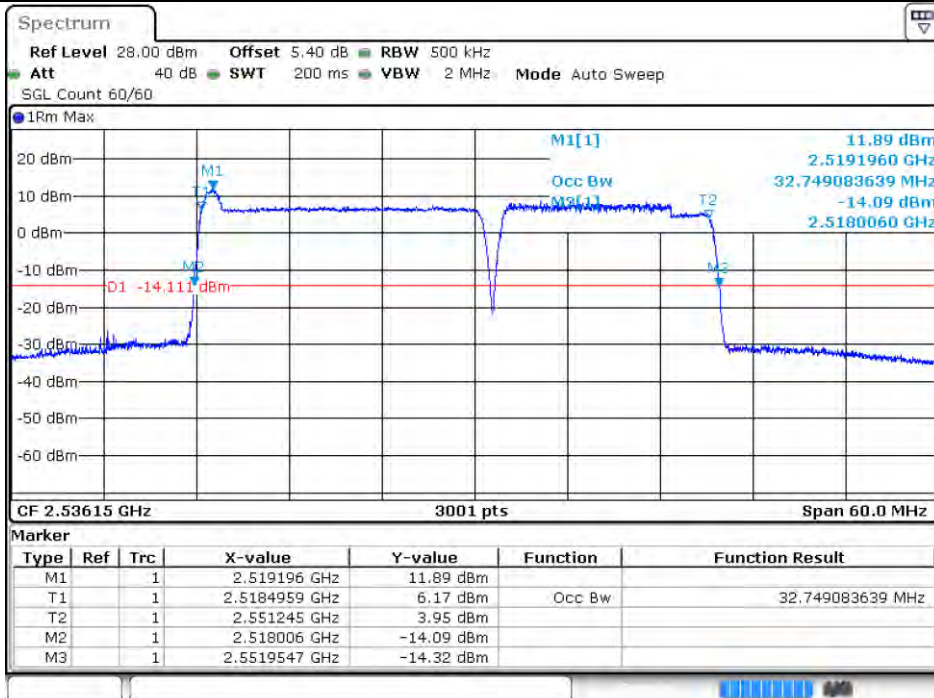


CA_7C_20+15_QPSK_20850+21021_100RB#0+75RB#0



Date: 9.DEC.2020 18:46:04

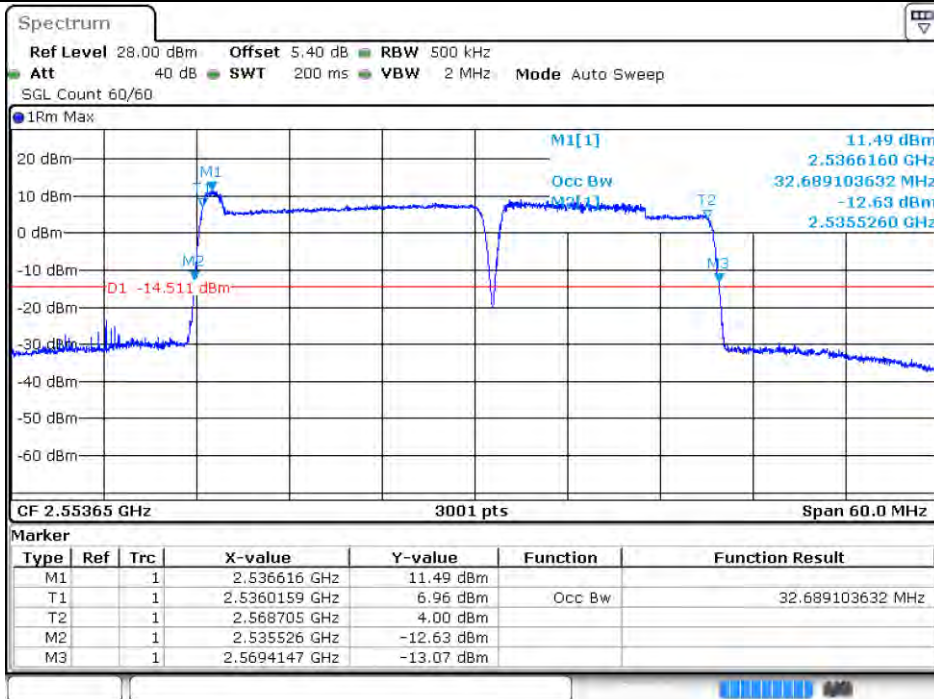
CA_7C_20+15_QPSK_21026+21197_100RB#0+75RB#0



Date: 9.DEC.2020 18:47:07

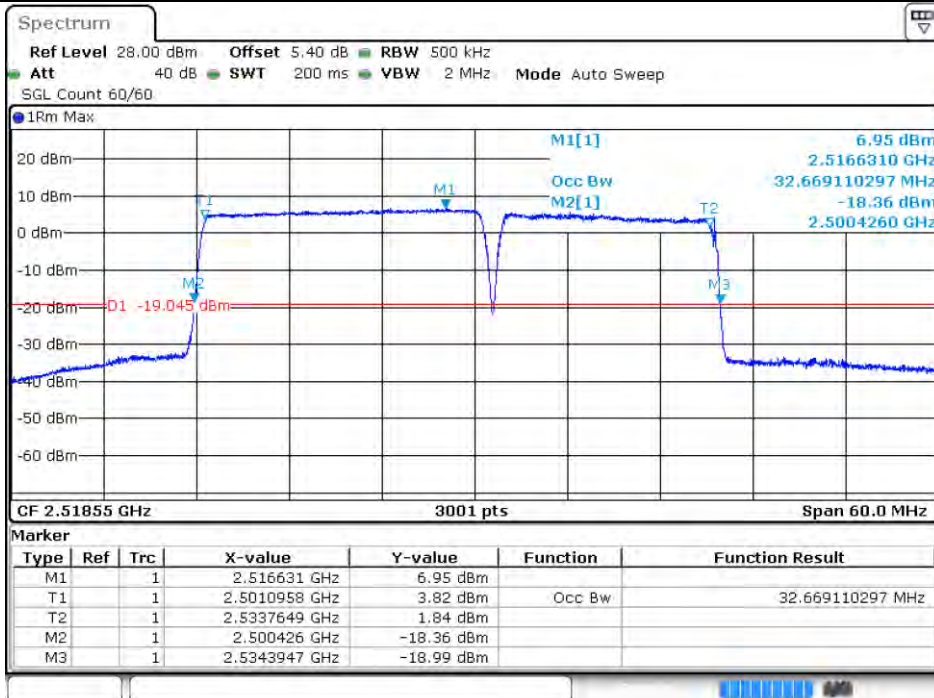


CA_7C_20+15_QPSK_21201+21372_100RB#0+75RB#0



Date: 9.DEC.2020 18:48:09

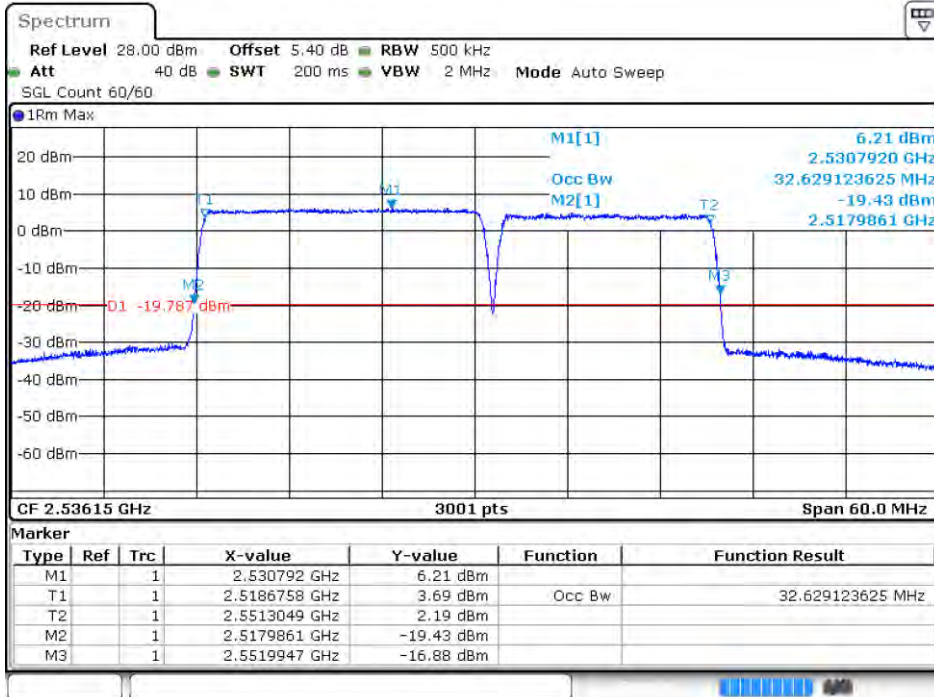
CA_7C_20+15_16QAM_20850+21021_100RB#0+75RB#0



Date: 9.DEC.2020 18:46:23

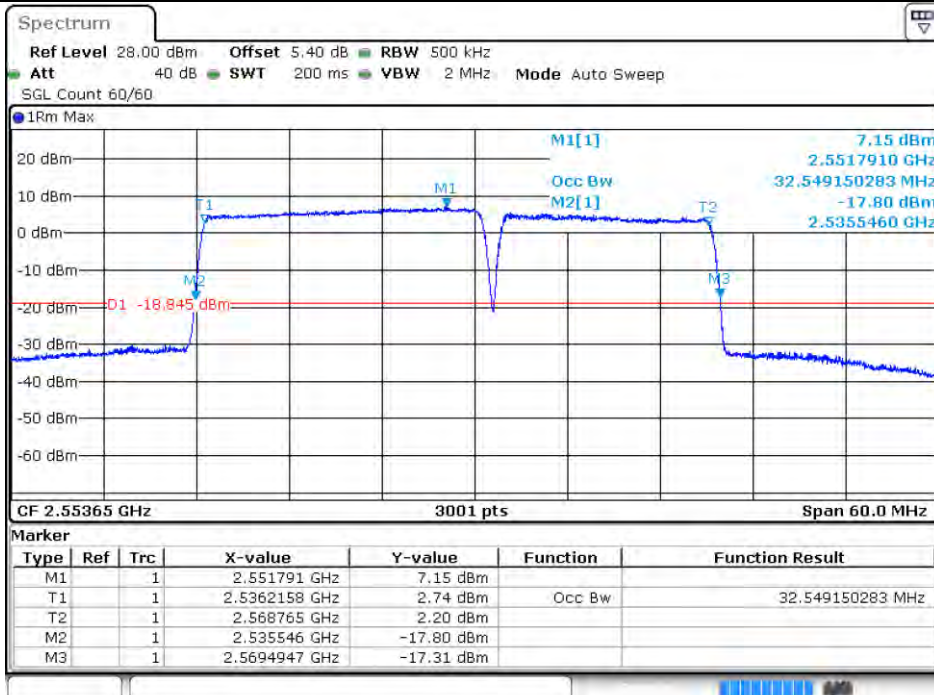


CA_7C_20+15_16QAM_21026+21197_100RB#0+75RB#0



Date: 9.DEC.2020 18:47:26

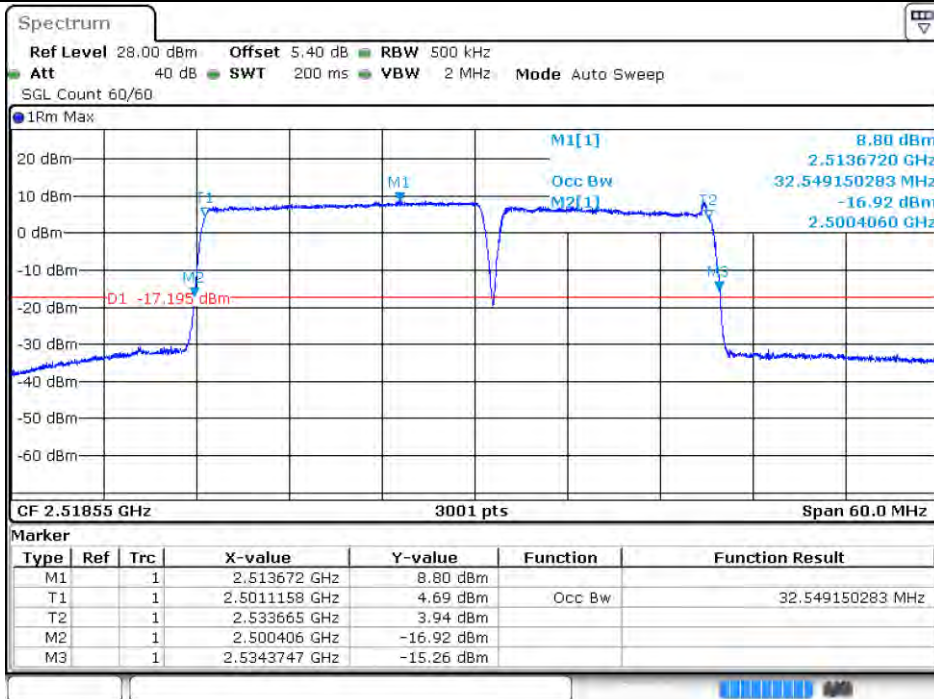
CA_7C_20+15_16QAM_21201+21372_100RB#0+75RB#0



Date: 9.DEC.2020 18:48:29

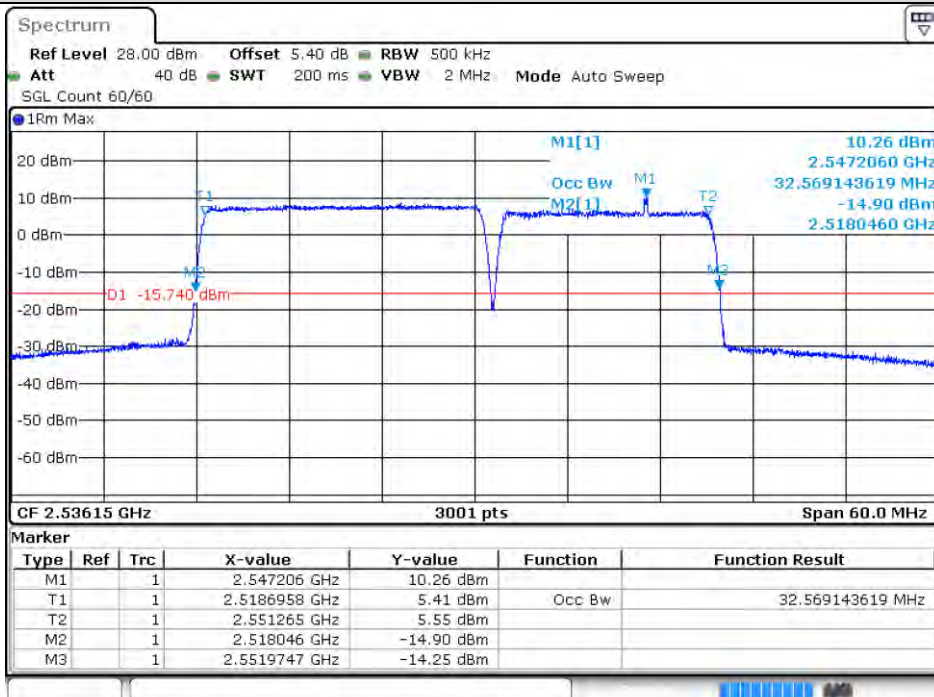


CA_7C_20+15_64QAM_20850+21021_100RB#0+75RB#0



Date: 9.DEC.2020 18:46:43

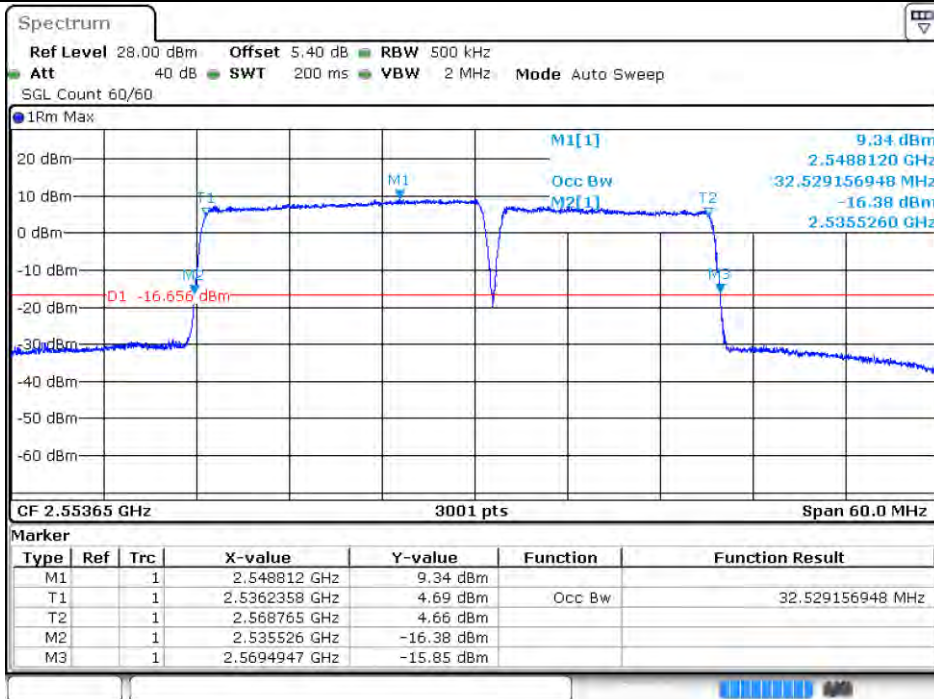
CA_7C_20+15_64QAM_21026+21197_100RB#0+75RB#0



Date: 9.DEC.2020 18:47:46

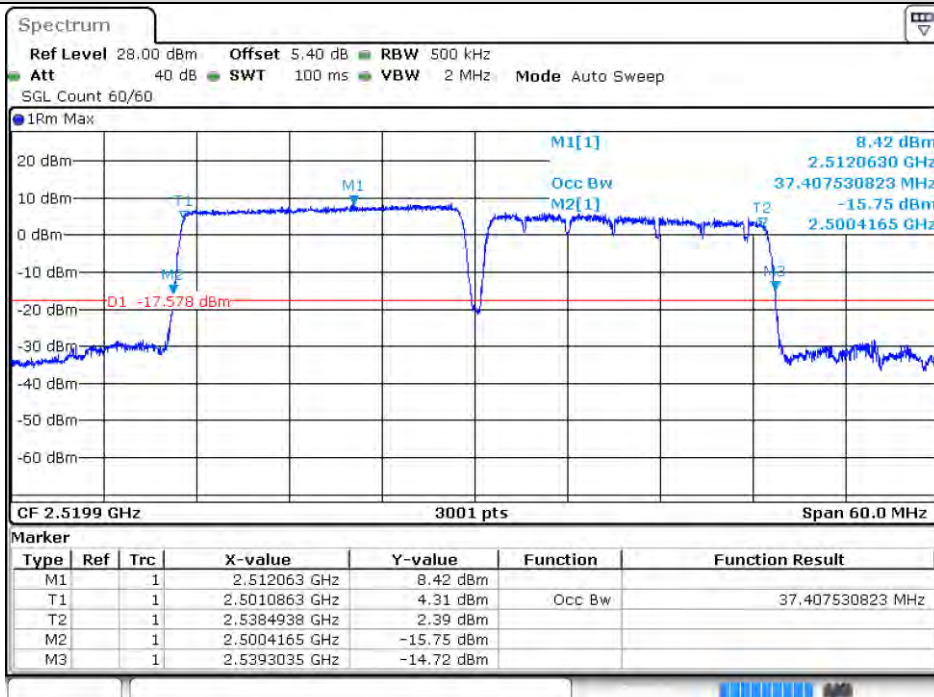


CA_7C_20+15_64QAM_21201+21372_100RB#0+75RB#0



Date: 9.DEC.2020 18:48:49

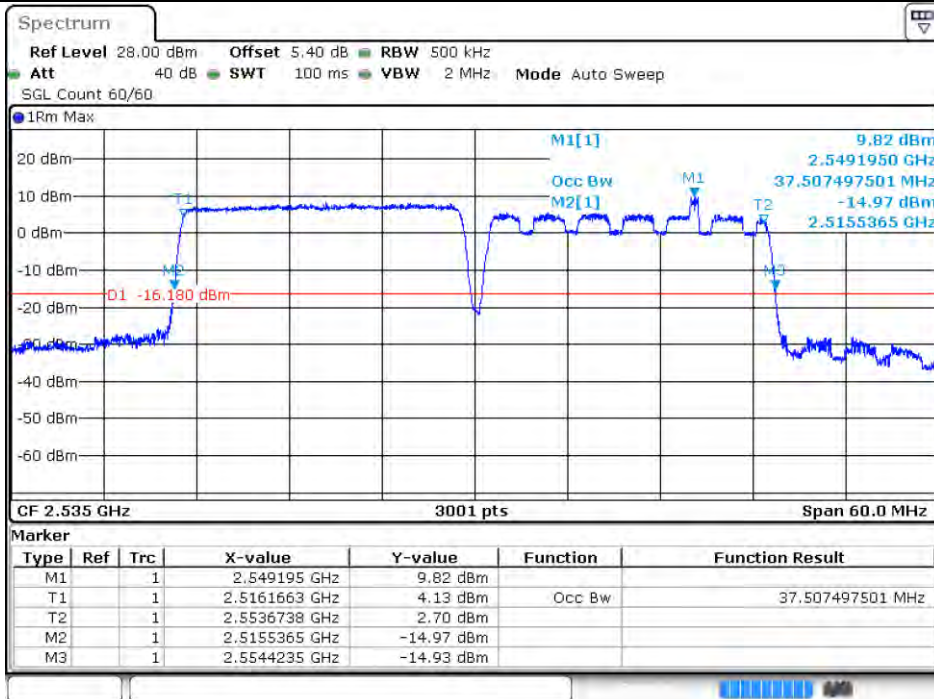
CA_7C_20+20_QPSK_20850+21048_100RB#0+100RB#0



Date: 9.DEC.2020 18:04:18

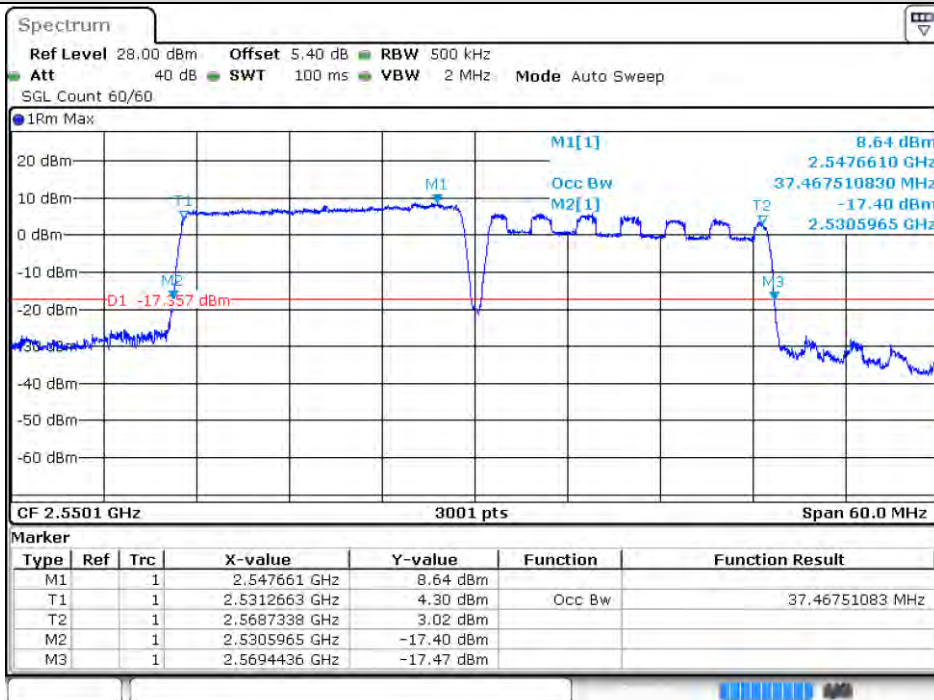


CA_7C_20+20_QPSK_21001+21199_100RB#0+100RB#0



Date: 9.DEC.2020 18:05:09

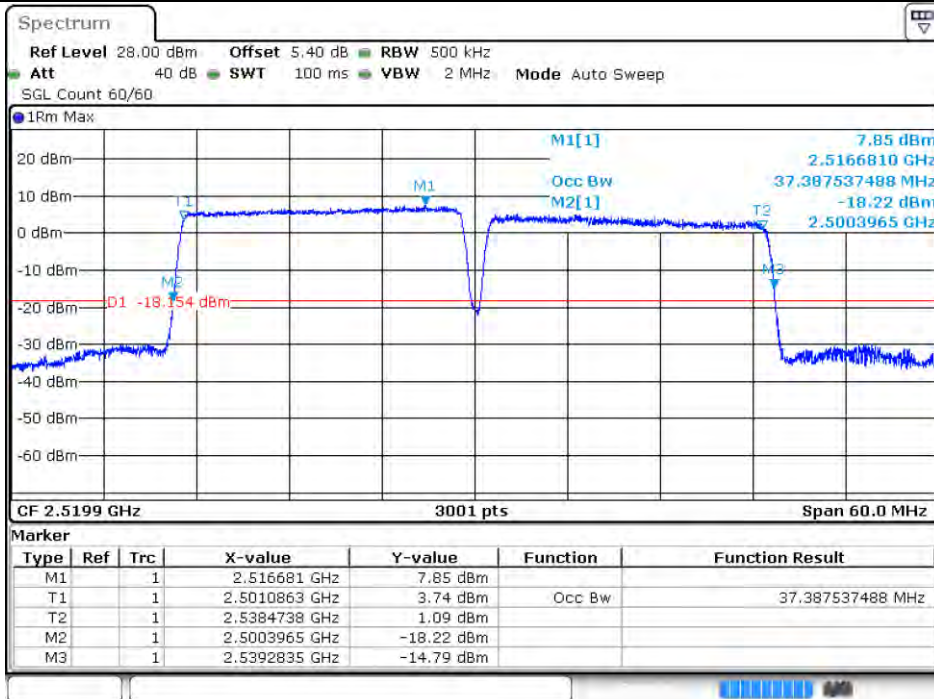
CA_7C_20+20_QPSK_21152+21350_100RB#0+100RB#0



Date: 9.DEC.2020 18:05:53

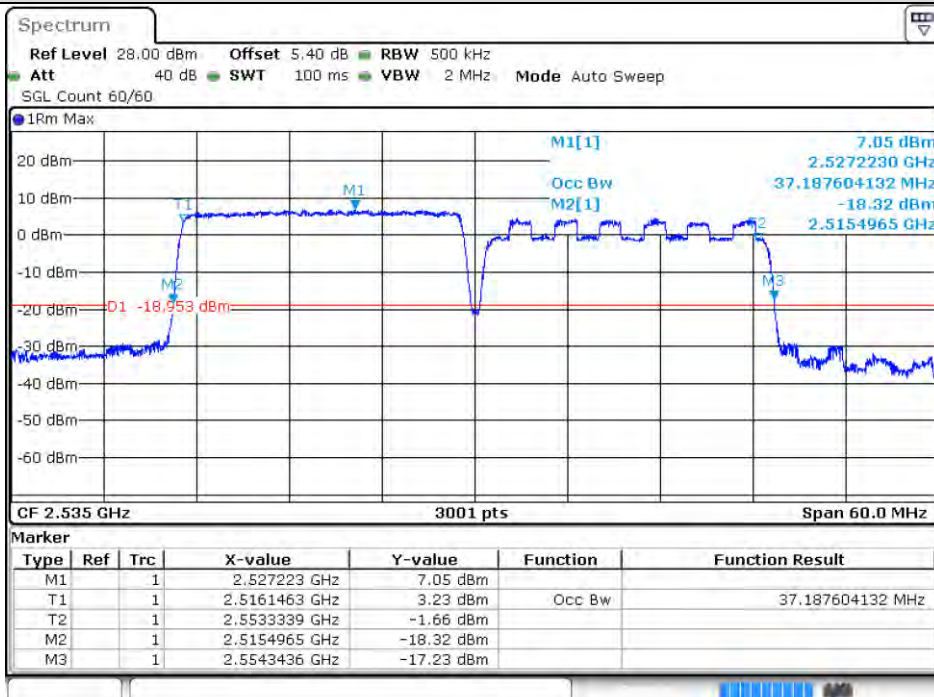


CA_7C_20+20_16QAM_20850+21048_100RB#0+100RB#0



Date: 9.DEC.2020 18:04:31

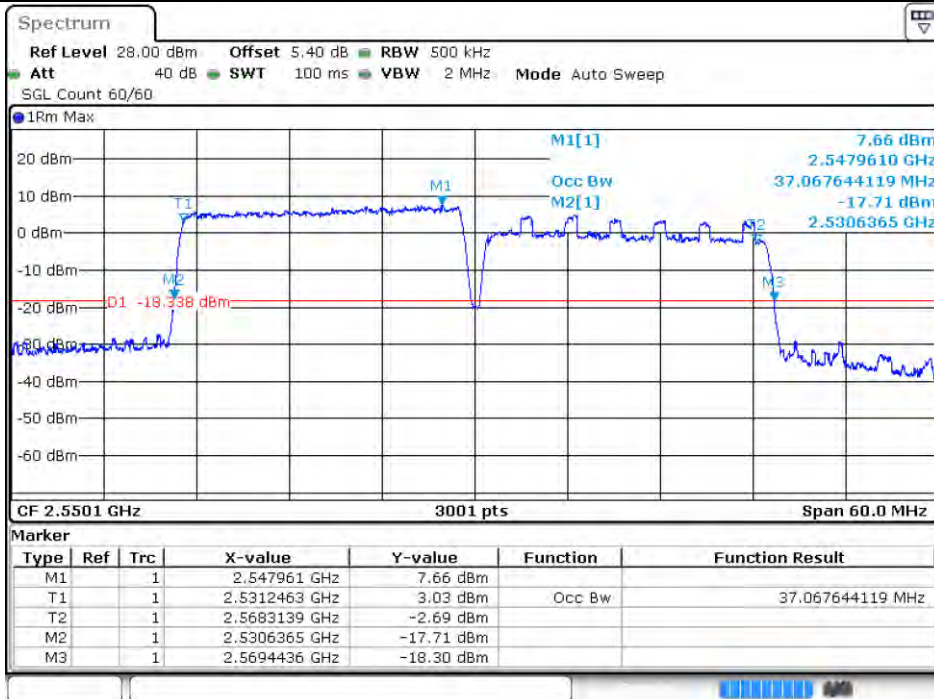
CA_7C_20+20_16QAM_21001+21199_100RB#0+100RB#0



Date: 9.DEC.2020 18:05:21

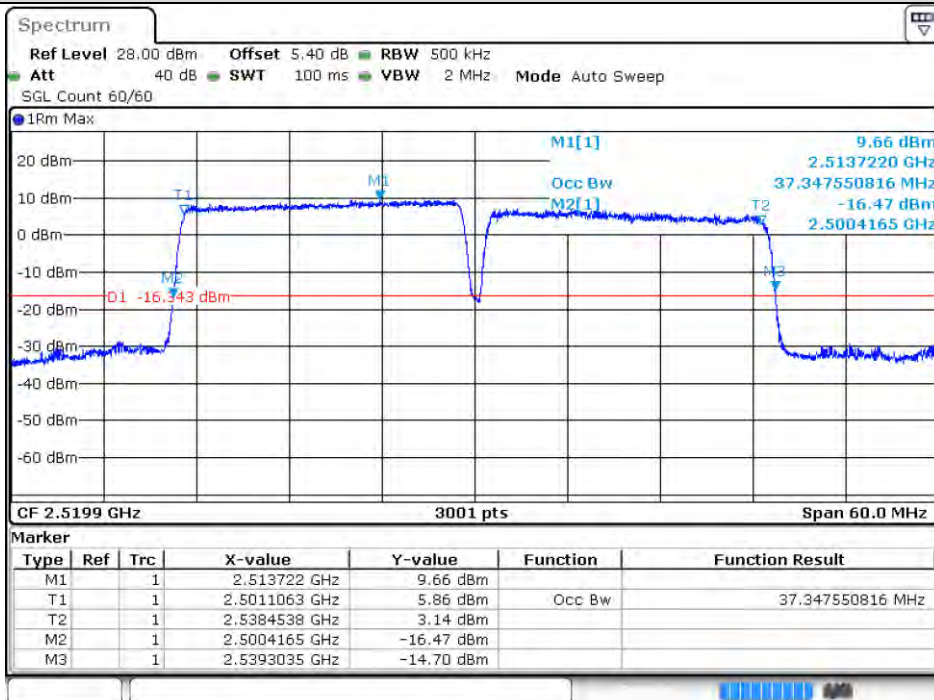


CA_7C_20+20_16QAM_21152+21350_100RB#0+100RB#0



Date: 9.DEC.2020 18:06:05

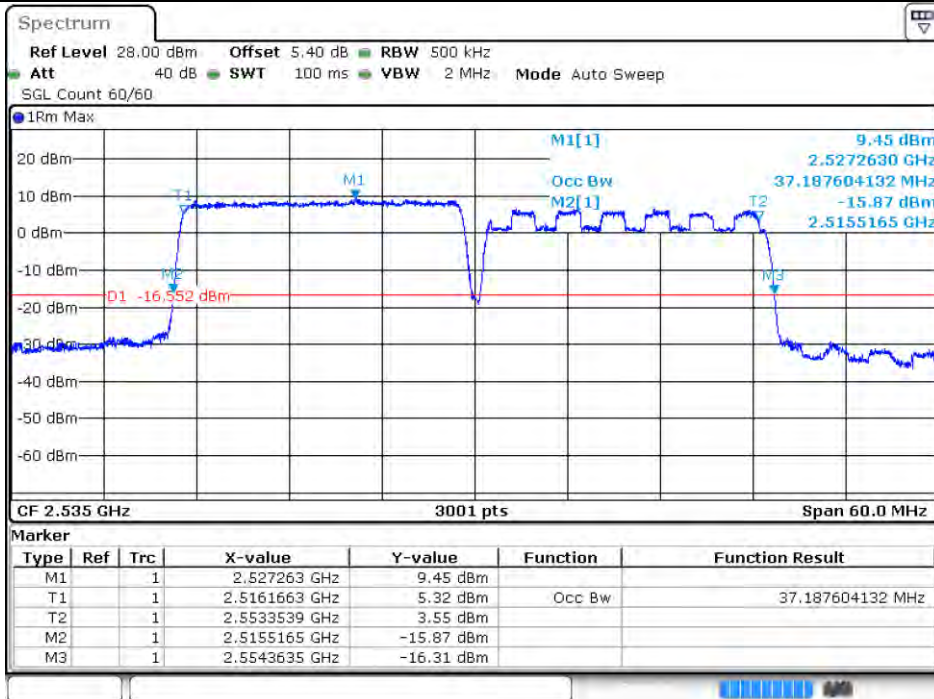
CA_7C_20+20_64QAM_20850+21048_100RB#0+100RB#0



Date: 9.DEC.2020 18:04:43

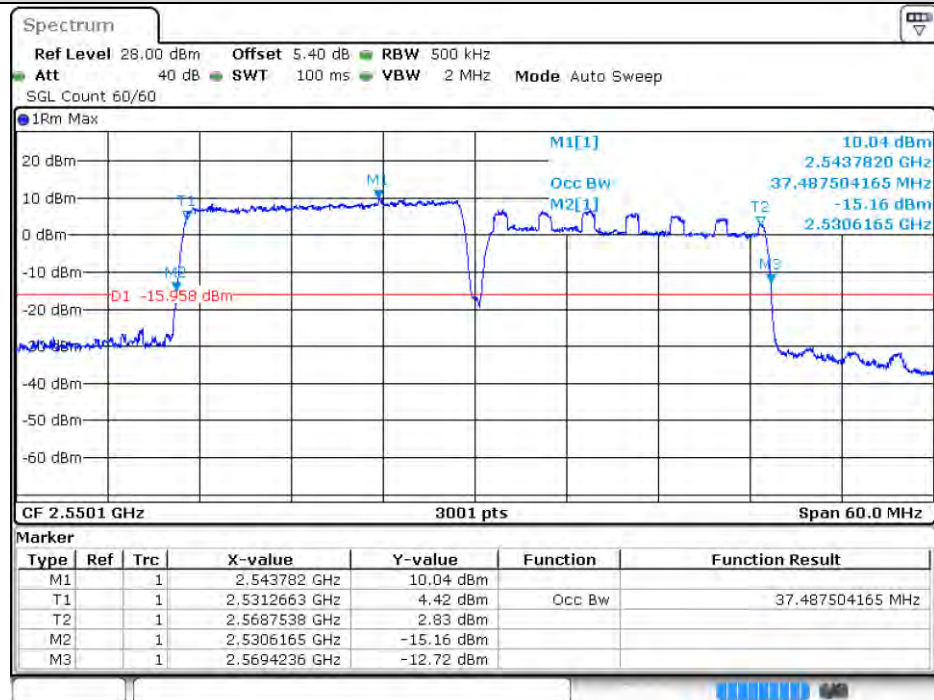


CA_7C_20+20_64QAM_21001+21199_100RB#0+100RB#0



Date: 9.DEC.2020 18:05:33

CA_7C_20+20_64QAM_21152+21350_100RB#0+100RB#0



Date: 9.DEC.2020 18:06:17

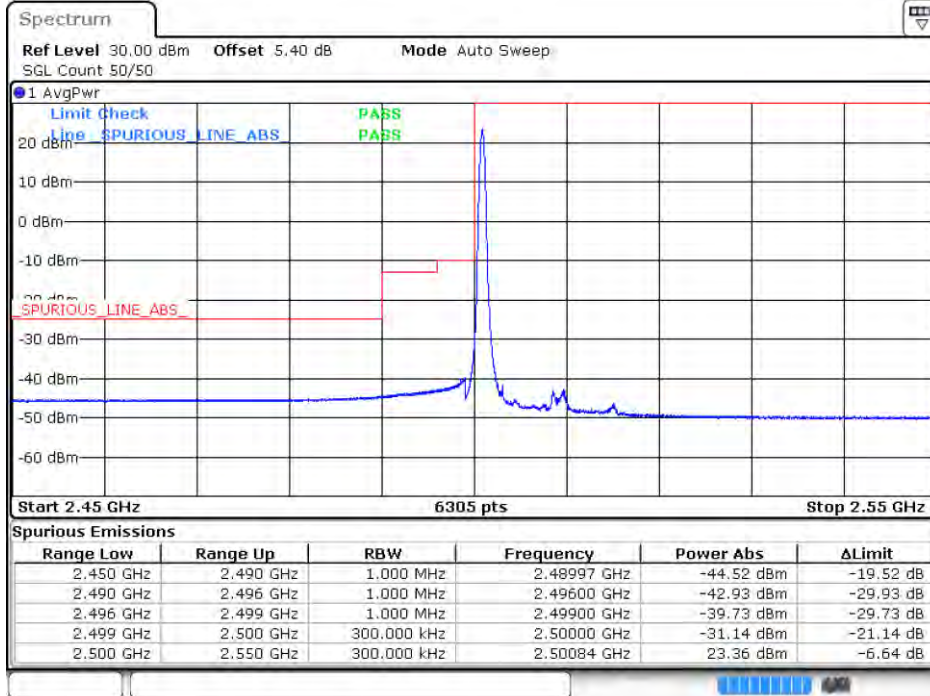


5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE Band CA_7C

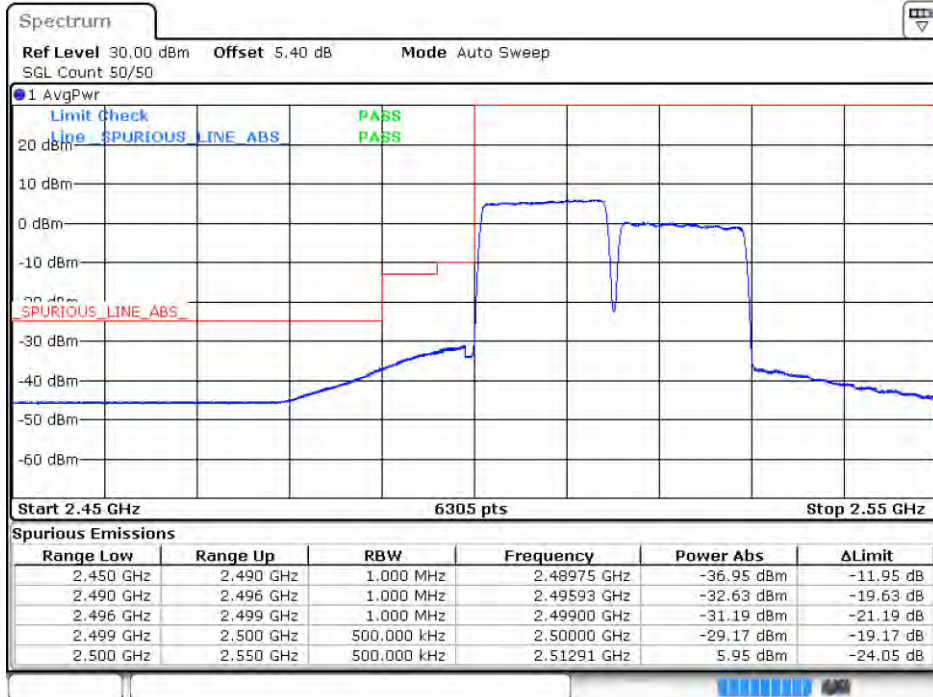
CA_7C_75RB+75RB_QPSK_20825+20975_1RB#0+0RB#0



Date: 9 DEC. 2020 18:06:55

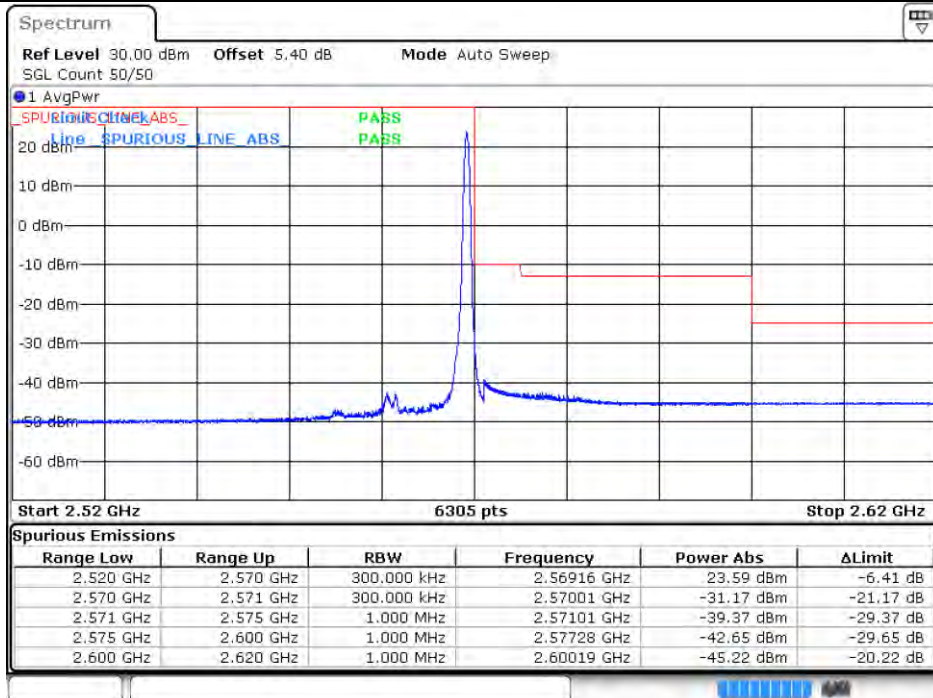


CA_7C_75RB+75RB_QPSK_20825+20975_75RB#0+75RB#0



Date: 9.DEC.2020 18:08:29

CA_7C_75RB+75RB_QPSK_21225+21375_0RB#0+1RB#74



Date: 9.DEC.2020 18:09:51

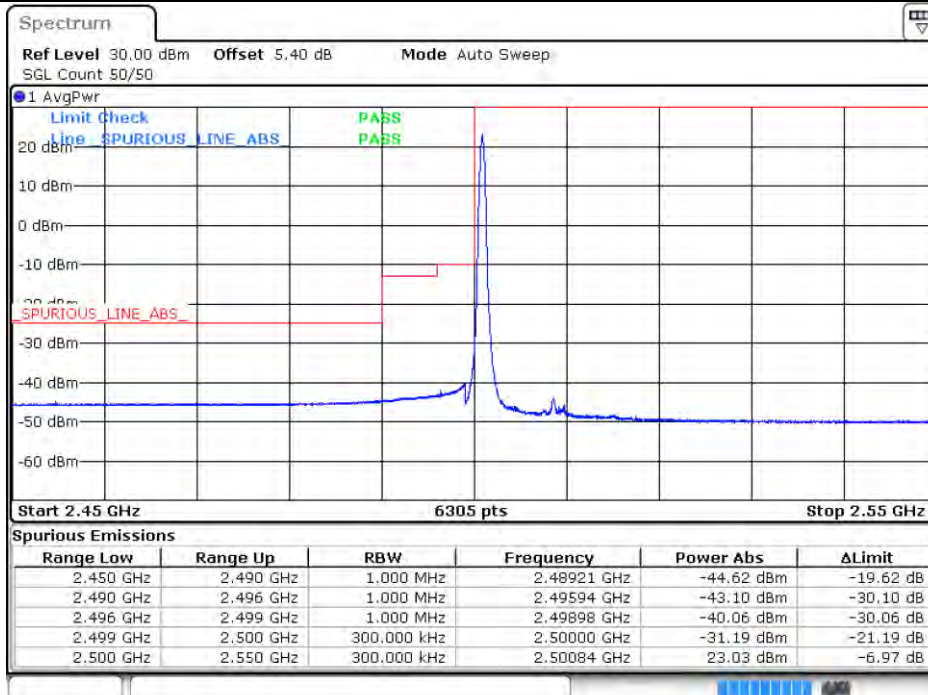


CA_7C_75RB+75RB_QPSK_21225+21375_75RB#0+75RB#0



Date: 9.DEC.2020 18:10:45

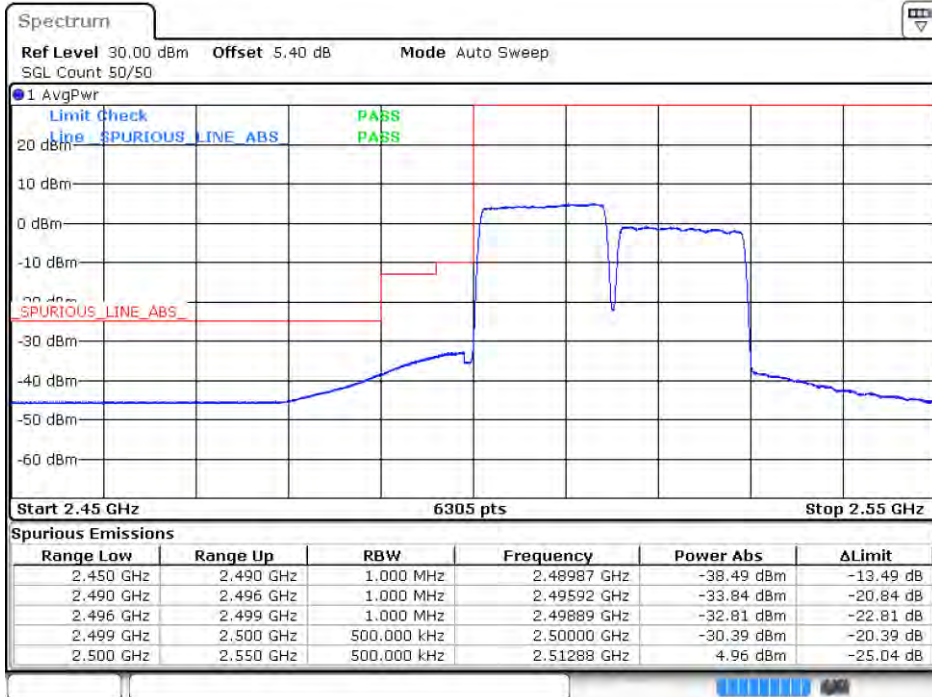
CA_7C_75RB+75RB_16QAM_20825+20975_1RB#0+0RB#0



Date: 9.DEC.2020 18:07:24

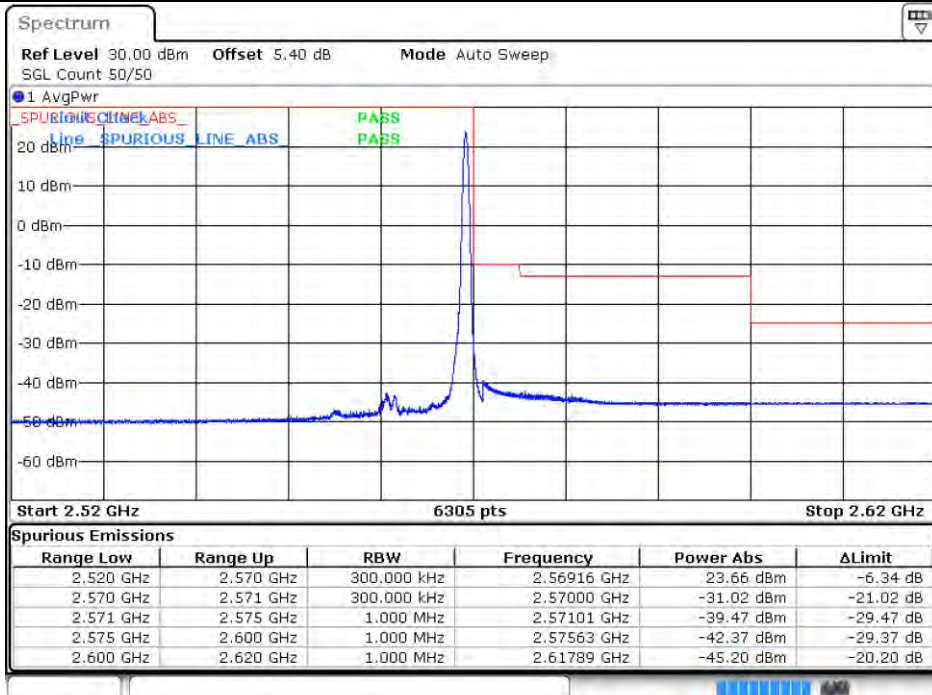


CA_7C_75RB+75RB_16QAM_20825+20975_75RB#0+75RB#0



Date: 9.DEC.2020 18:08:58

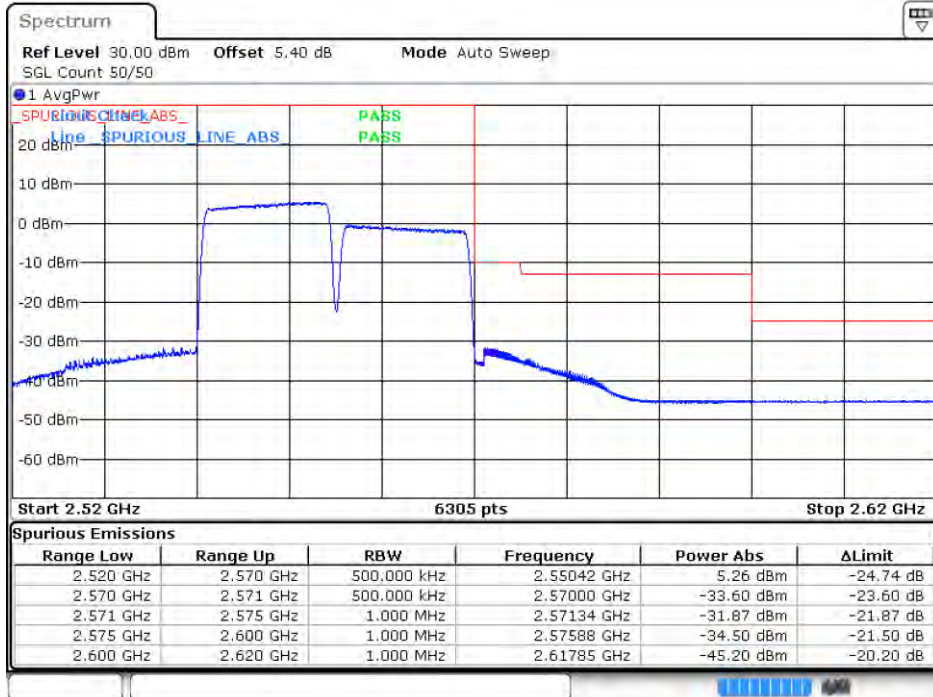
CA_7C_75RB+75RB_16QAM_21225+21375_0RB#0+1RB#74



Date: 9.DEC.2020 18:10:06

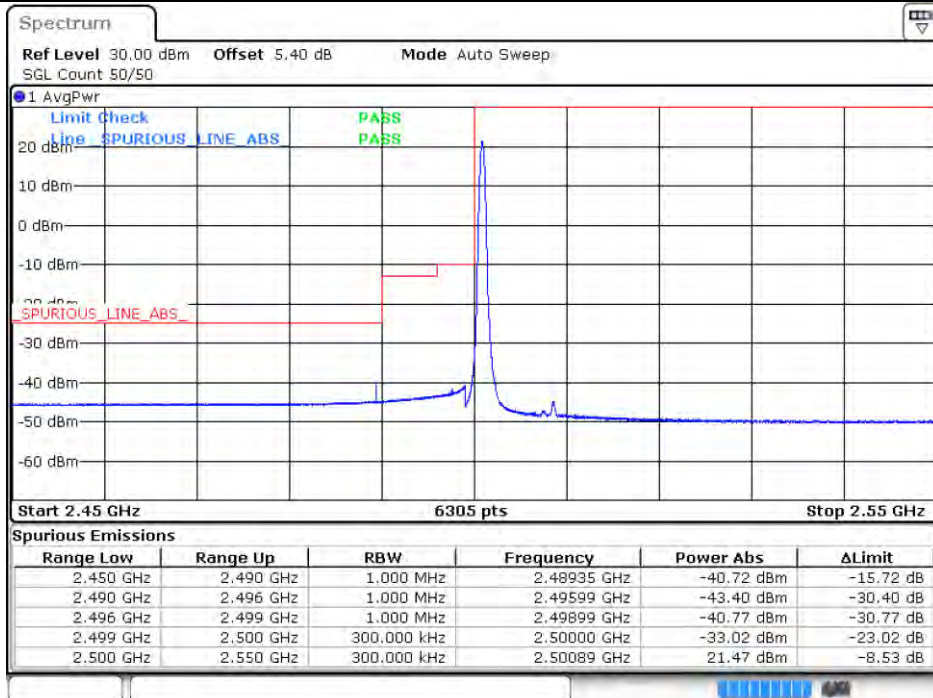


CA_7C_75RB+75RB_16QAM_21225+21375_75RB#0+75RB#0



Date: 9.DEC.2020 18:11:01

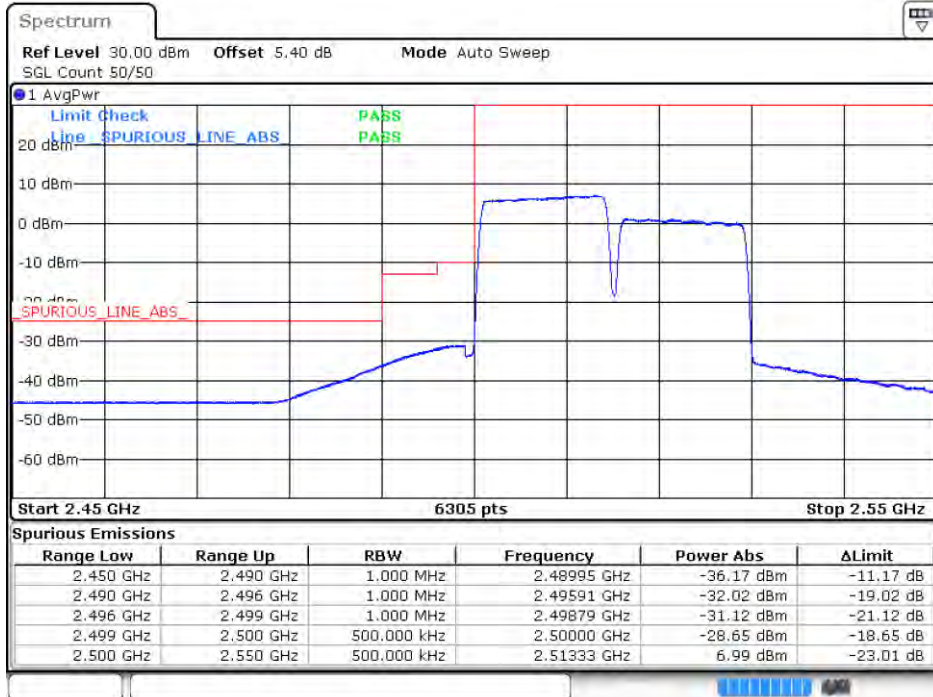
CA_7C_75RB+75RB_64QAM_20825+20975_1RB#0+0RB#0



Date: 9.DEC.2020 18:07:52

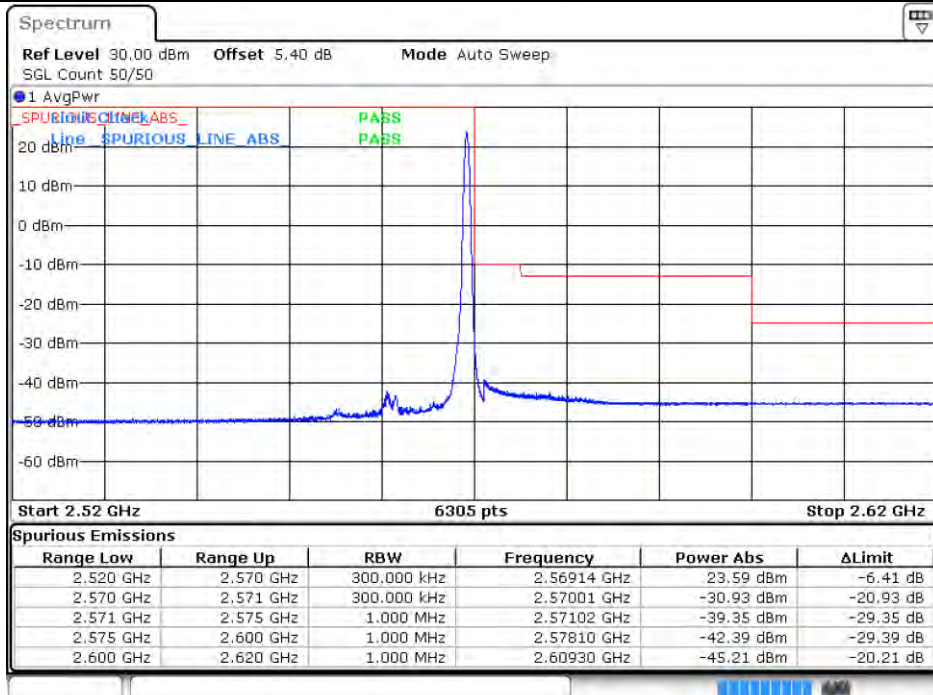


CA_7C_75RB+75RB_64QAM_20825+20975_75RB#0+75RB#0



Date: 9.DEC.2020 18:09:26

CA_7C_75RB+75RB_64QAM_21225+21375_0RB#0+1RB#74



Date: 9.DEC.2020 18:10:21

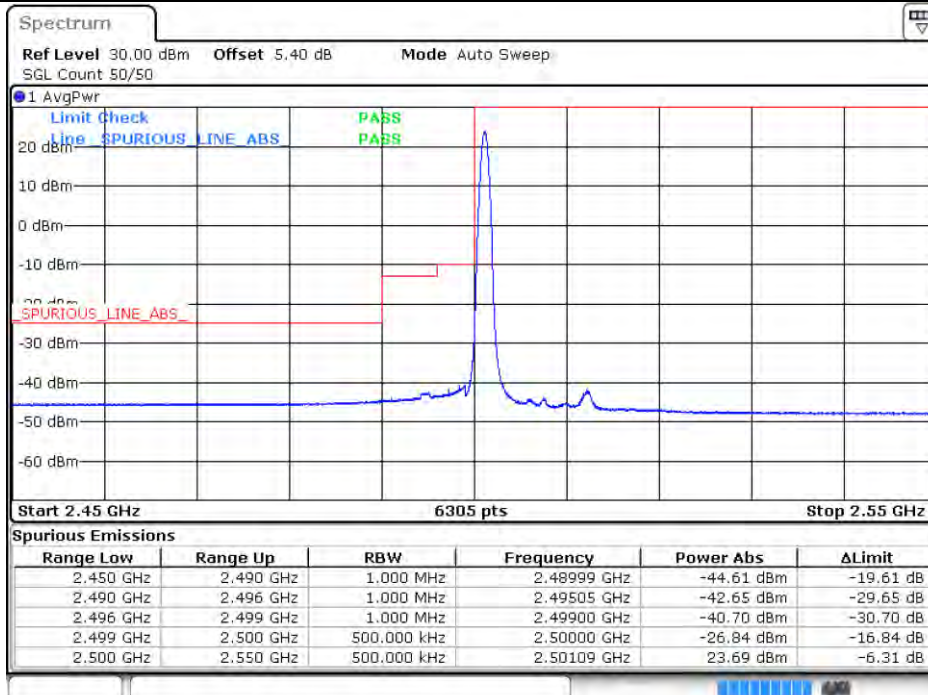


CA_7C_75RB+75RB_64QAM_21225+21375_75RB#0+75RB#0



Date: 9.DEC.2020 18:11:16

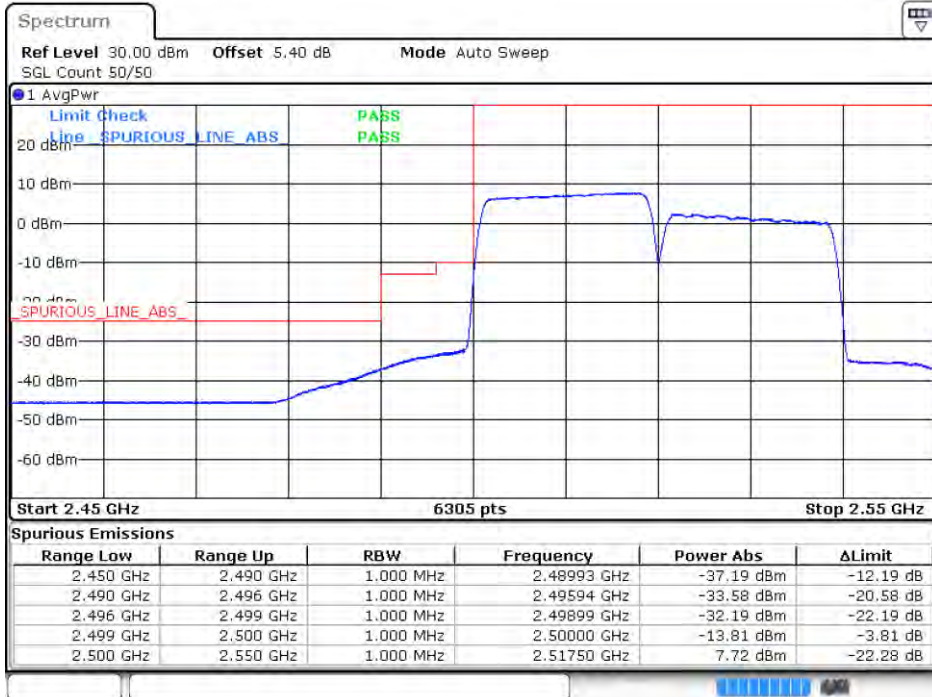
CA_7C_100RB+100RB_QPSK_20850+21048_1RB#0+0RB#0



Date: 9.DEC.2020 18:11:54

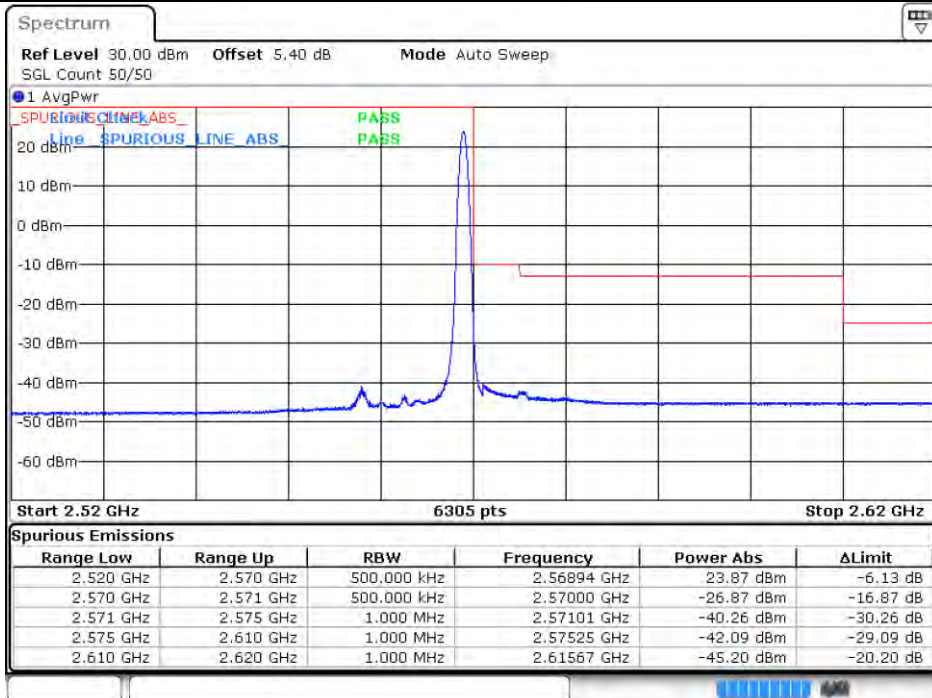


CA_7C_100RB+100RB_QPSK_20850+21048_100RB#0+100RB#0



Date: 9.DEC.2020 18:13:28

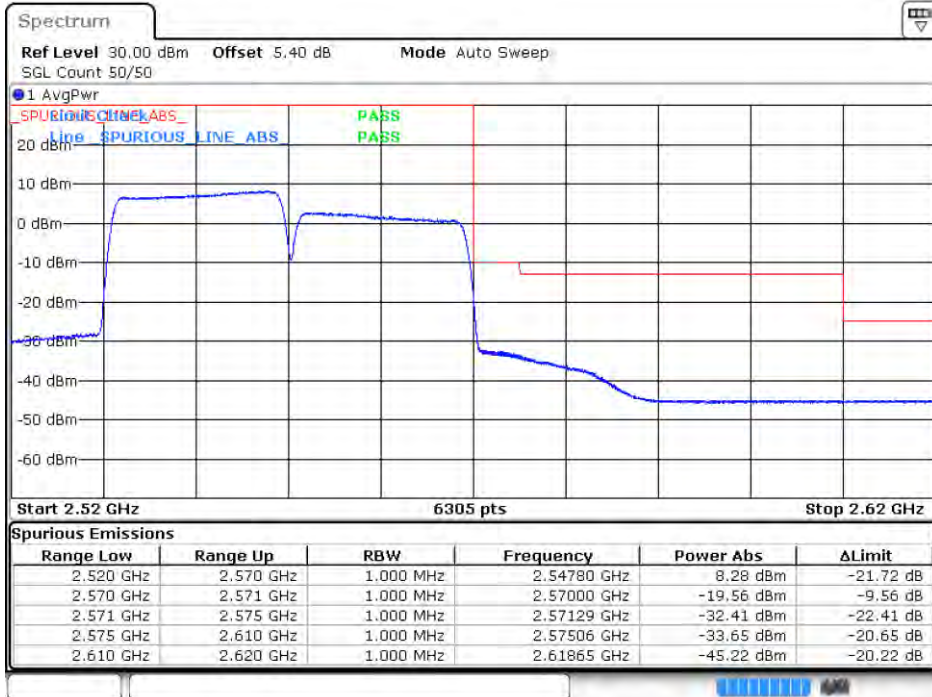
CA_7C_100RB+100RB_QPSK_21152+21350_0RB#0+1RB#99



Date: 9.DEC.2020 18:14:49

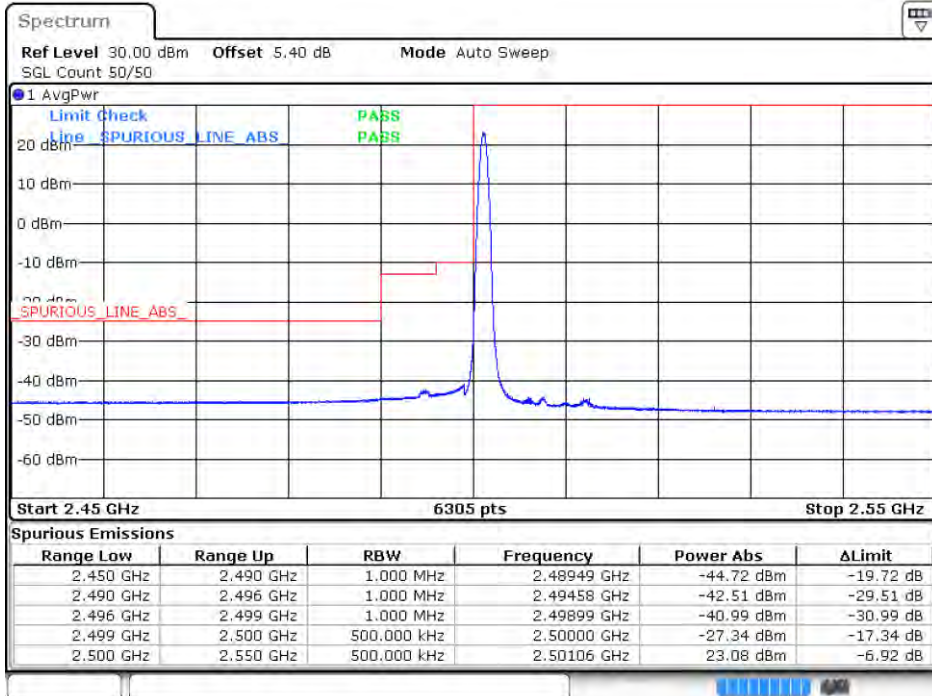


CA_7C_100RB+100RB_QPSK_21152+21350_100RB#0+100RB#0



Date: 9.DEC.2020 18:16:21

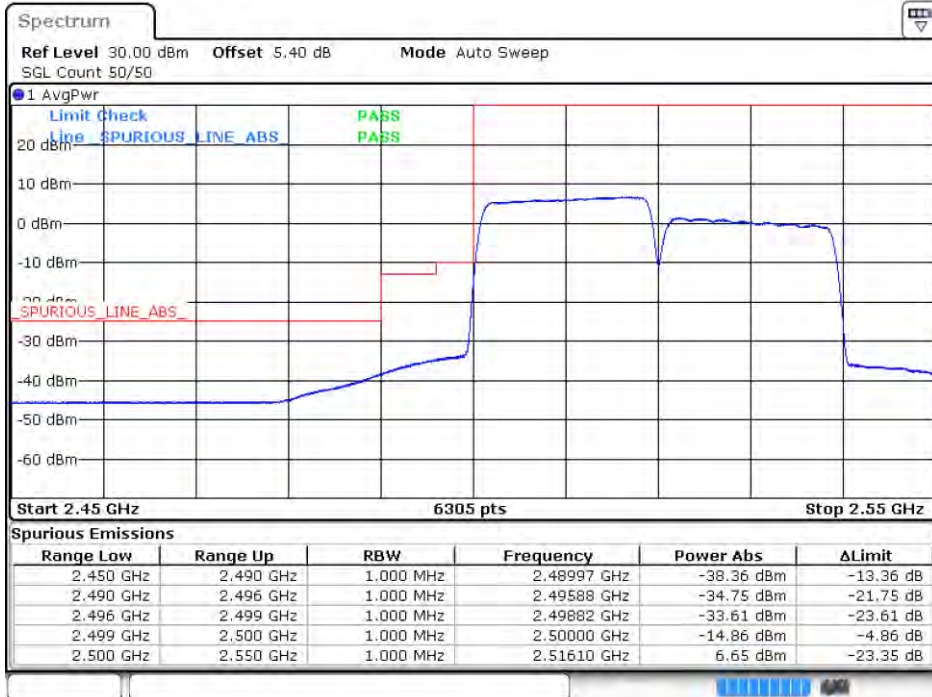
CA_7C_100RB+100RB_16QAM_20850+21048_1RB#0+0RB#0



Date: 9.DEC.2020 18:12:22

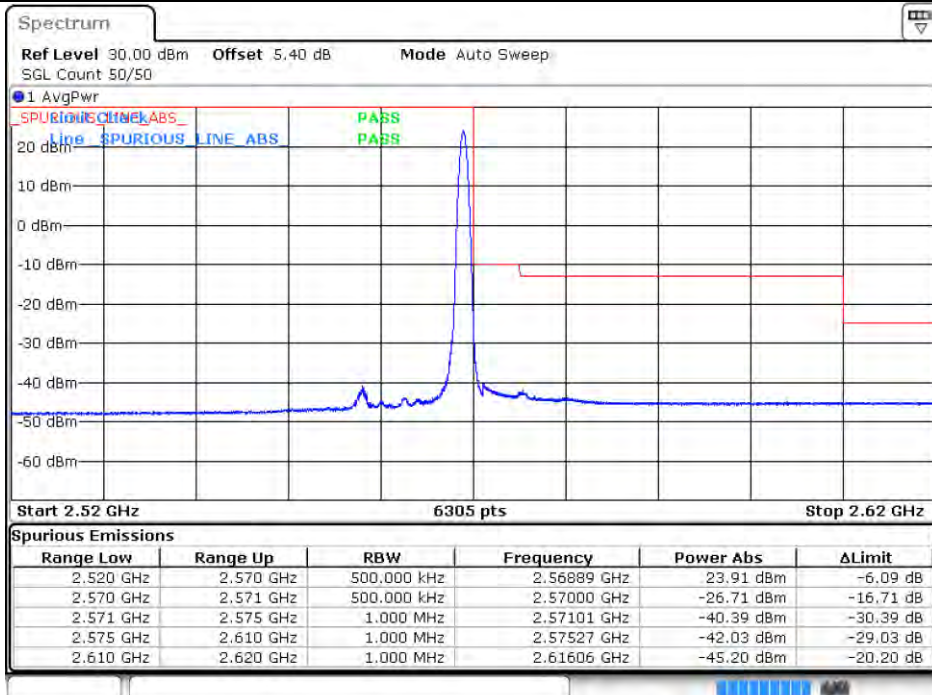


CA_7C_100RB+100RB_16QAM_20850+21048_100RB#0+100RB#0



Date: 9.DEC.2020 18:13:57

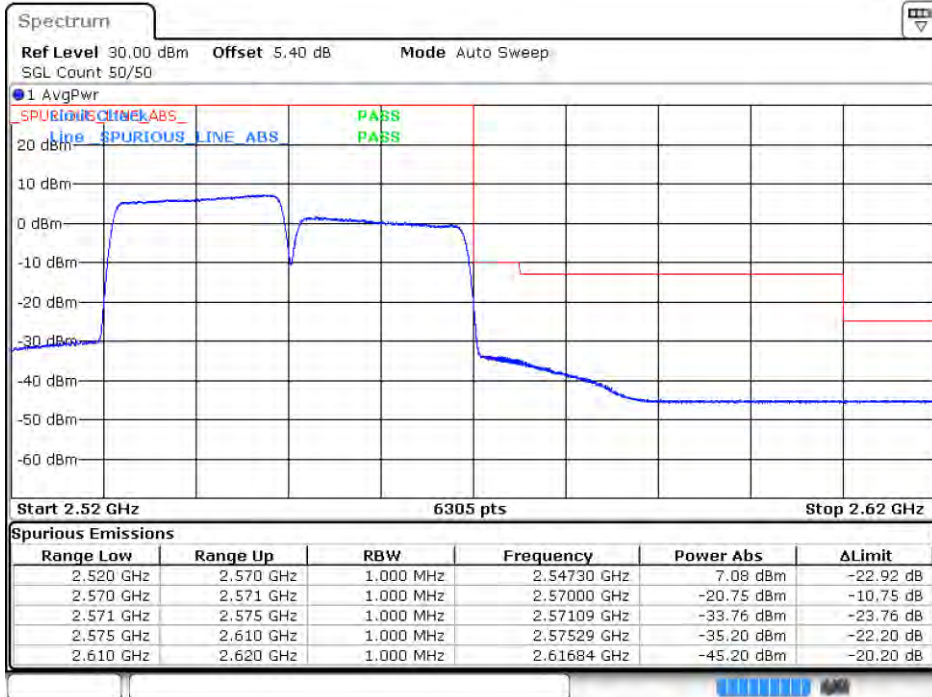
CA_7C_100RB+100RB_16QAM_21152+21350_0RB#0+1RB#99



Date: 9.DEC.2020 18:15:05

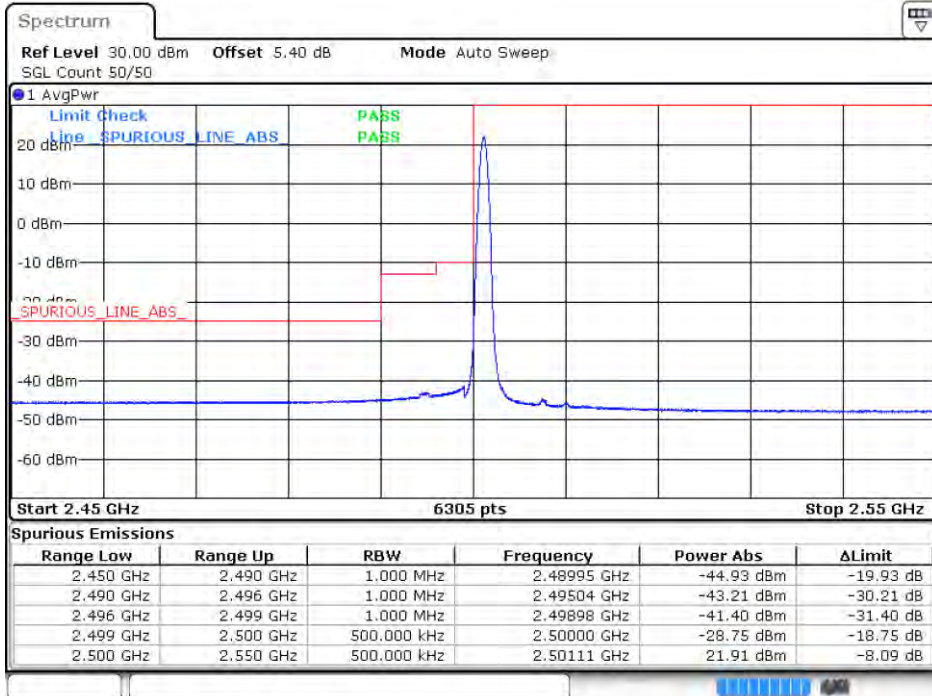


CA_7C_100RB+100RB_16QAM_21152+21350_100RB#0+100RB#0



Date: 9.DEC.2020 18:16:36

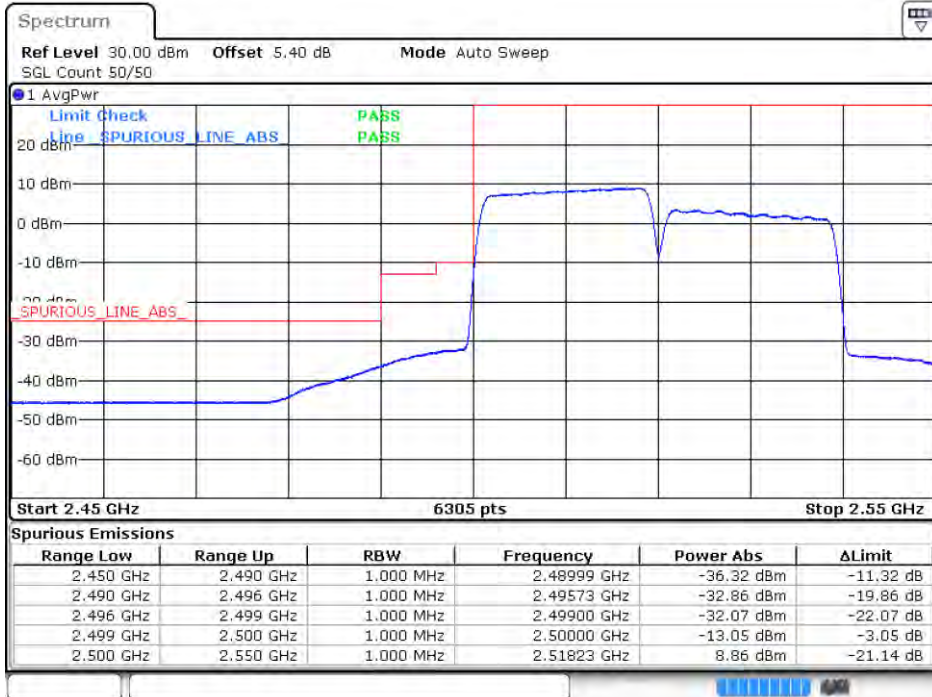
CA_7C_100RB+100RB_64QAM_20850+21048_1RB#0+0RB#0



Date: 9.DEC.2020 18:12:51

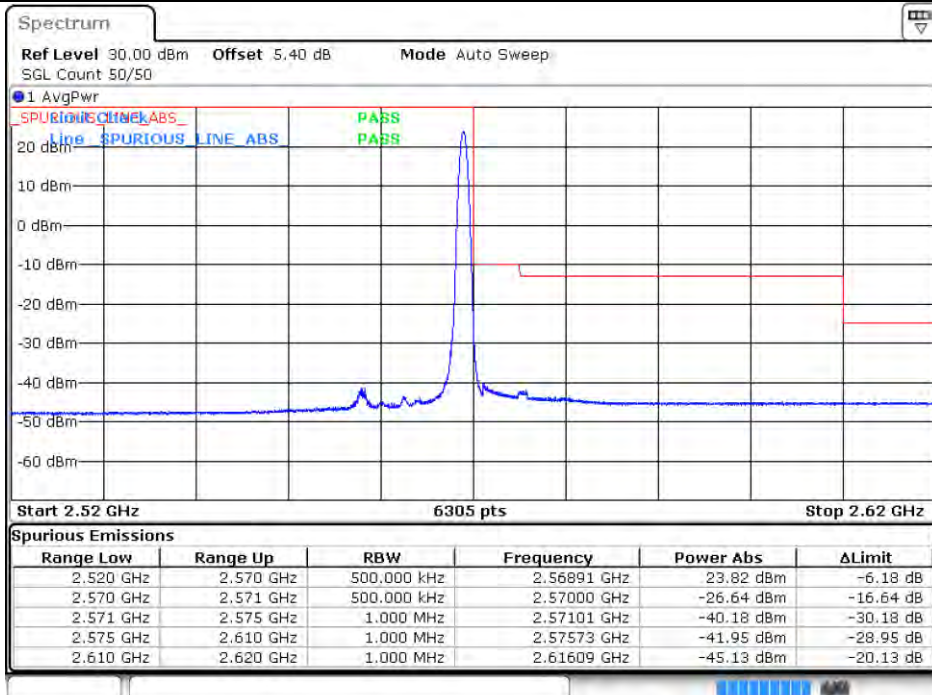


CA_7C_100RB+100RB_64QAM_20850+21048_100RB#0+100RB#0



Date: 9.DEC.2020 18:14:25

CA_7C_100RB+100RB_64QAM_21152+21350_0RB#0+1RB#99



Date: 9.DEC.2020 18:15:20



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



Date: 9.DEC.2020 18:16:51



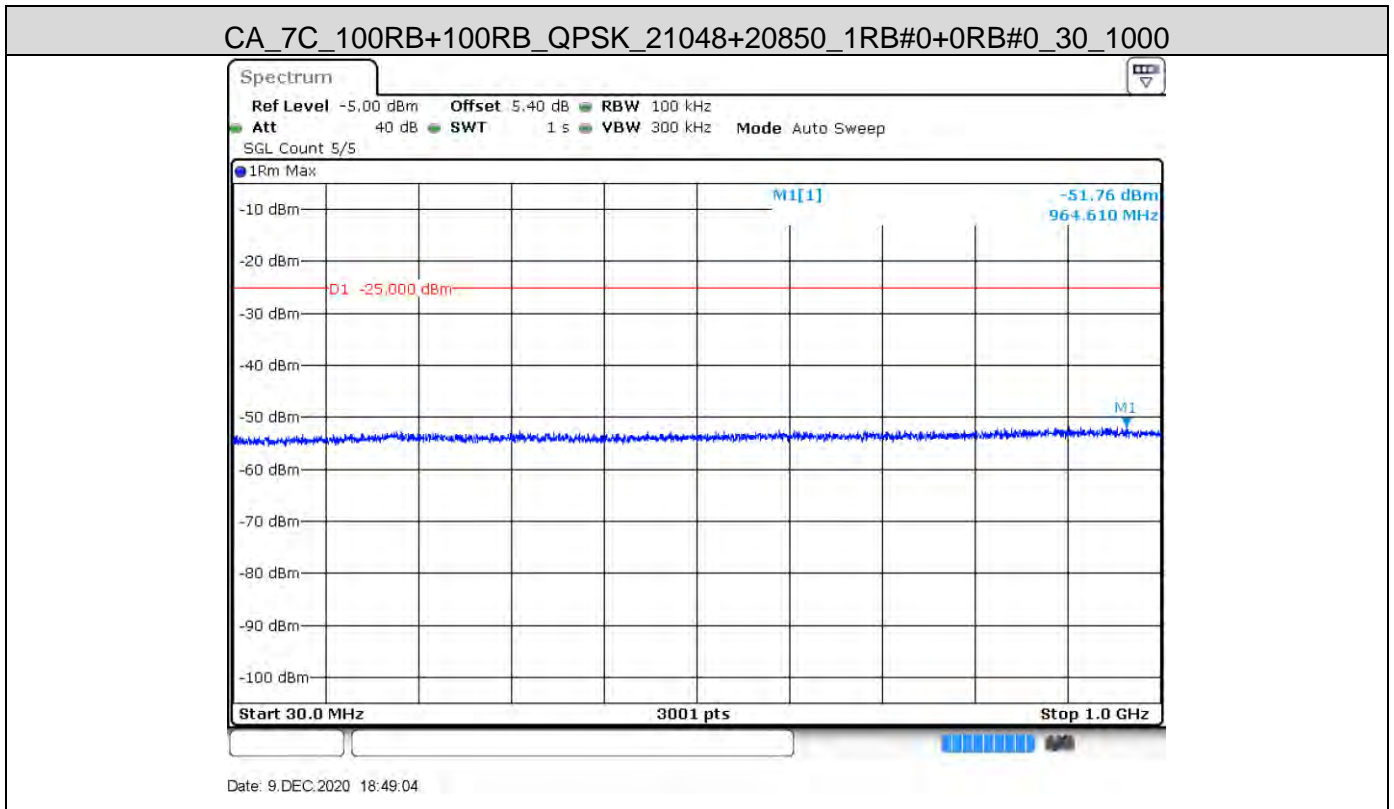
6 Spurious Emission at Antenna Terminal

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.

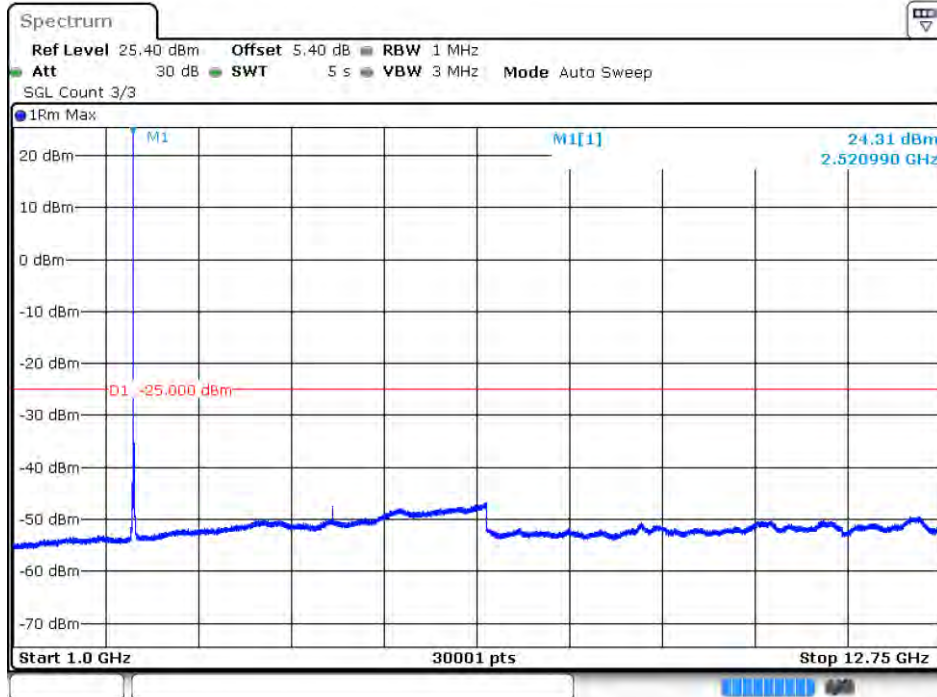
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE Band CA_7C

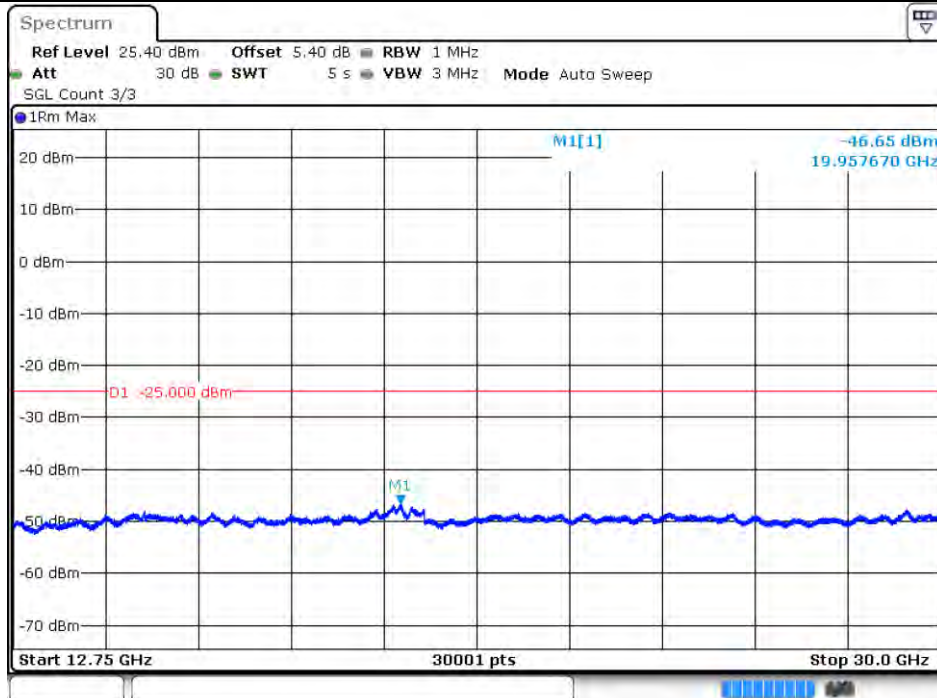


CA_7C_100RB+100RB_QPSK_21048+20850_1RB#0+0RB#0_1000_12750



Date: 9.DEC.2020 18:20:46

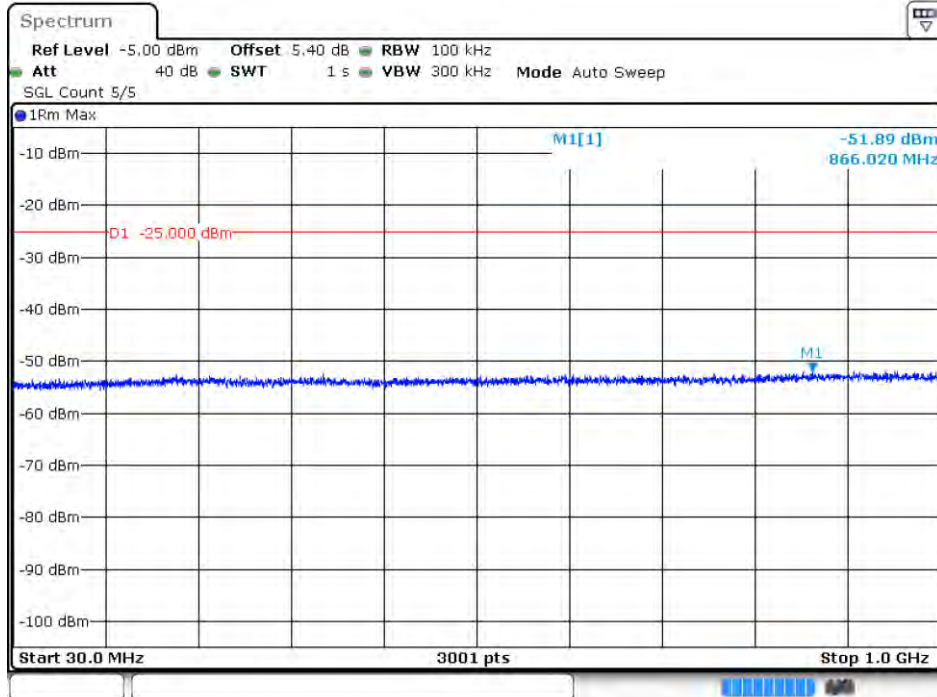
CA_7C_100RB+100RB_QPSK_21048+20850_1RB#0+0RB#0_12750_30000



Date: 9.DEC.2020 18:29:08

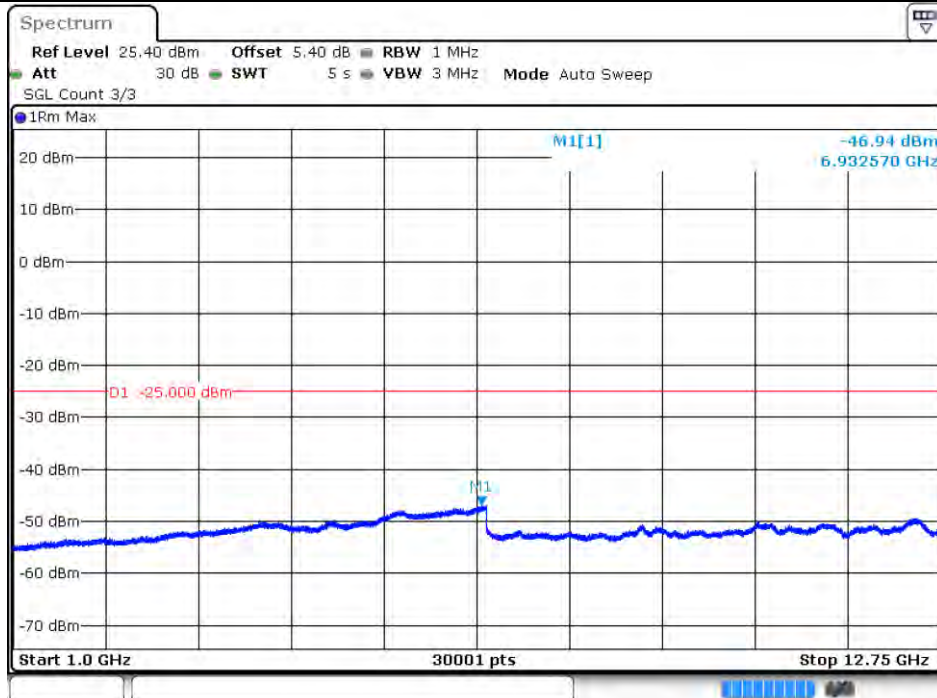


CA_7C_100RB+100RB_QPSK_21048+20850_0RB#0+1RB#99_30_1000



Date: 9.DEC.2020 18:49:10

CA_7C_100RB+100RB_QPSK_21048+20850_0RB#0+1RB#99_1000_12750

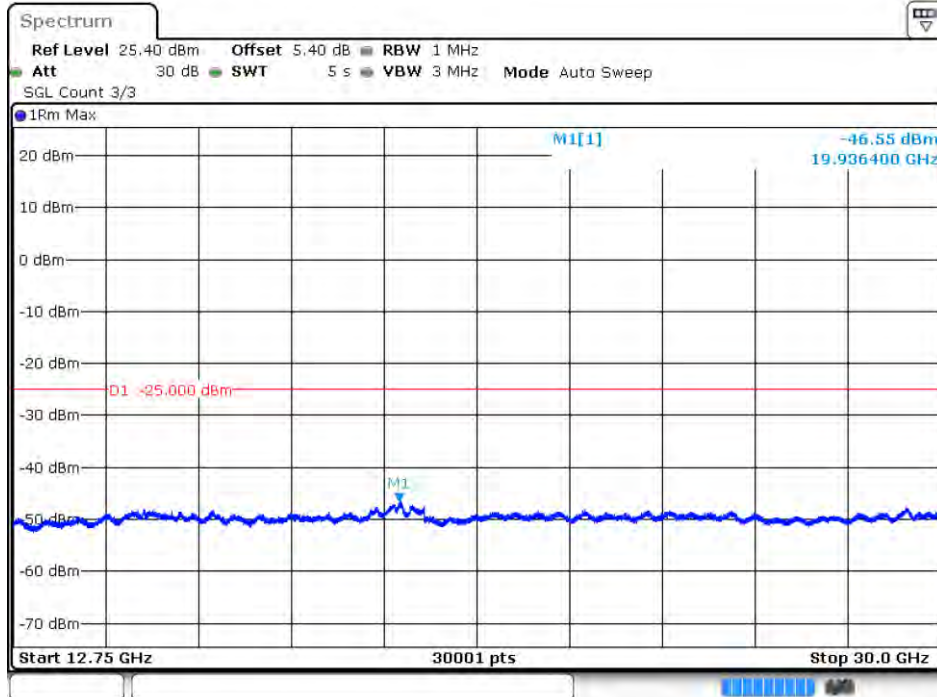


Date: 9.DEC.2020 18:21:02



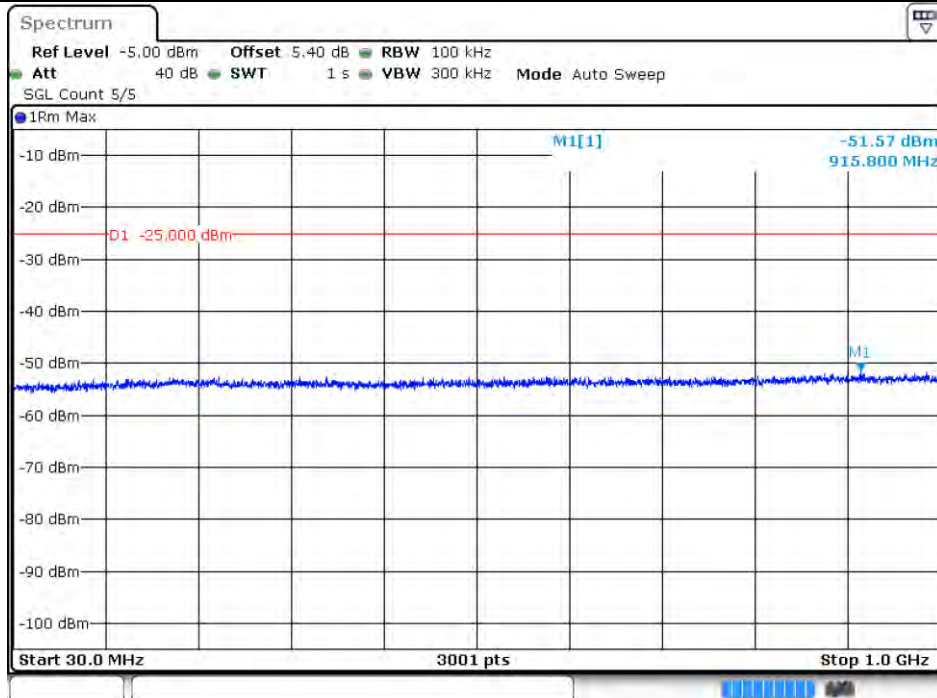


CA_7C_100RB+100RB_QPSK_21048+20850_0RB#0+1RB#99_12750_30000



Date: 9.DEC.2020 18:29:25

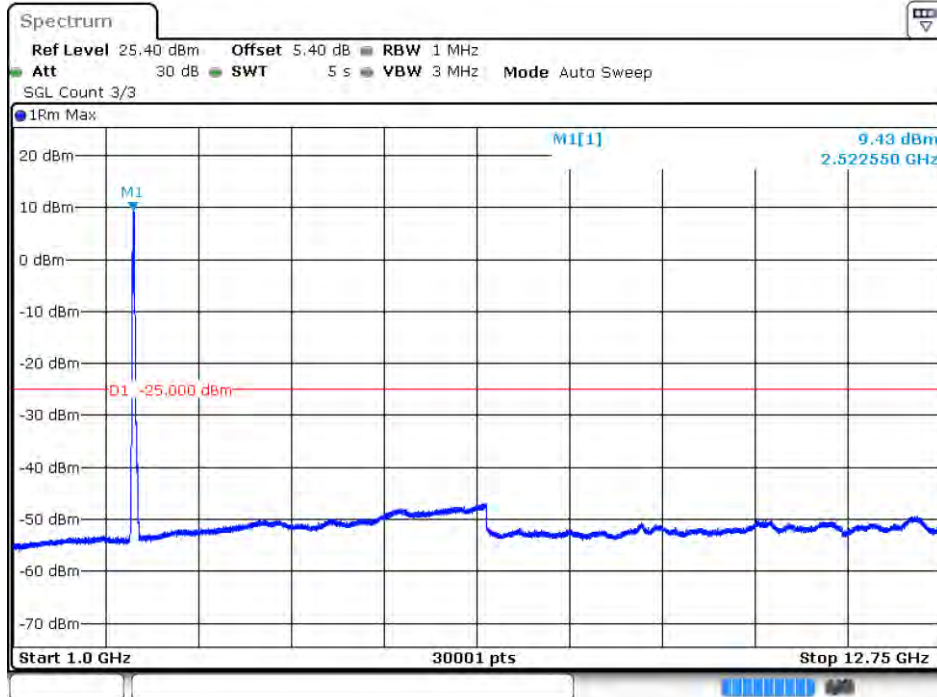
CA_7C_100RB+100RB_QPSK_21048+20850_100RB#0+100RB#0_30_1000



Date: 9.DEC.2020 18:49:16

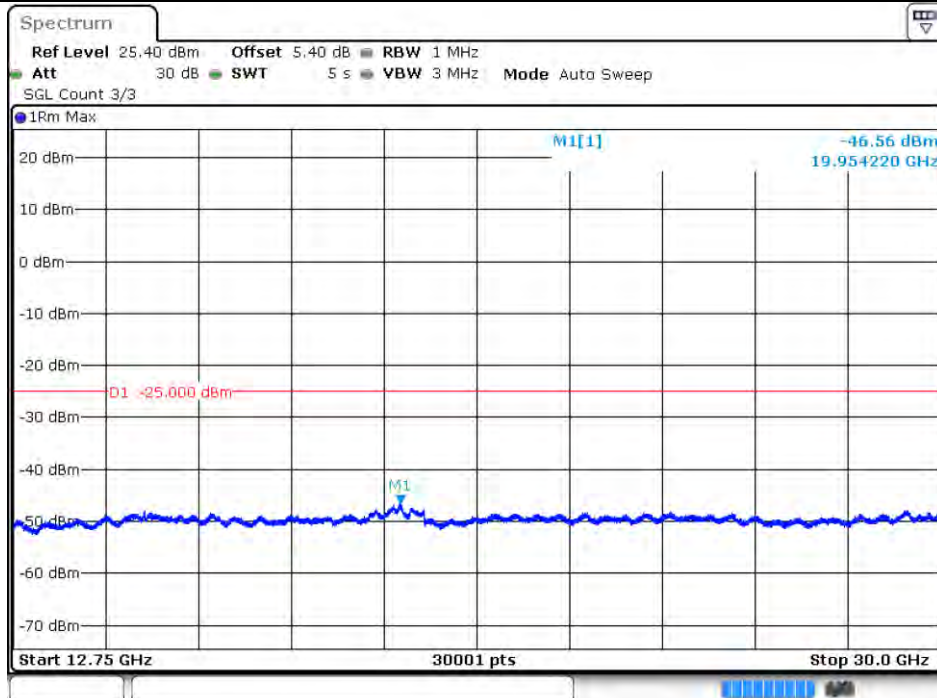


CA_7C_100RB+100RB_QPSK_21048+20850_100RB#0+100RB#0_1000_12750



Date: 9.DEC.2020 18:21:19

CA_7C_100RB+100RB_QPSK_21048+20850_100RB#0+100RB#0_12750_30000

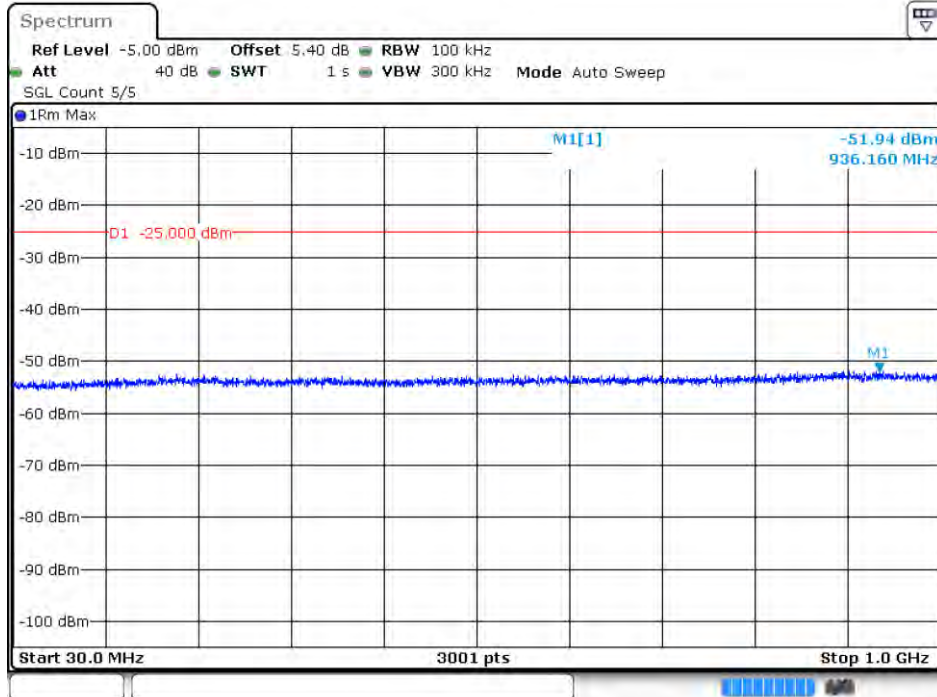


Date: 9.DEC.2020 18:29:42



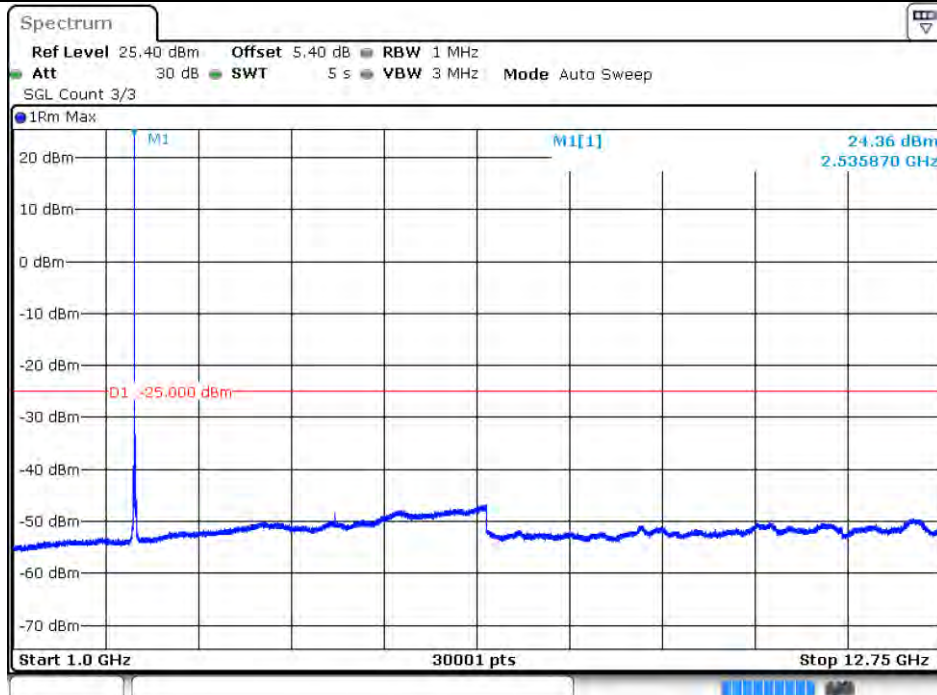


CA_7C_100RB+100RB_QPSK_21199+21001_1RB#0+0RB#0_30_1000



Date: 9.DEC.2020 18:18:23

CA_7C_100RB+100RB_QPSK_21199+21001_1RB#0+0RB#0_1000_12750

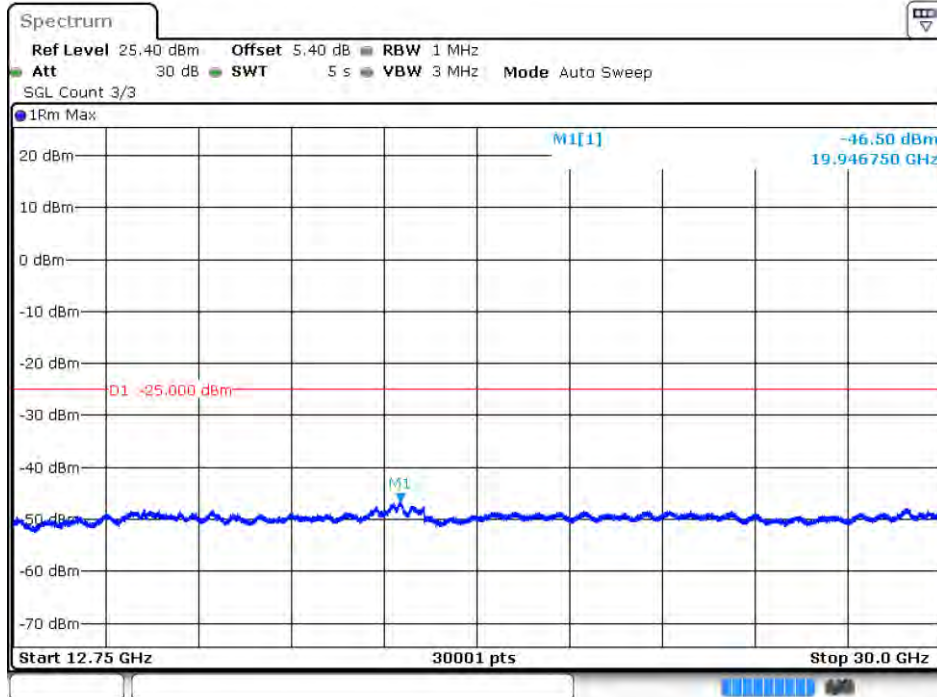


Date: 9.DEC.2020 18:23:21



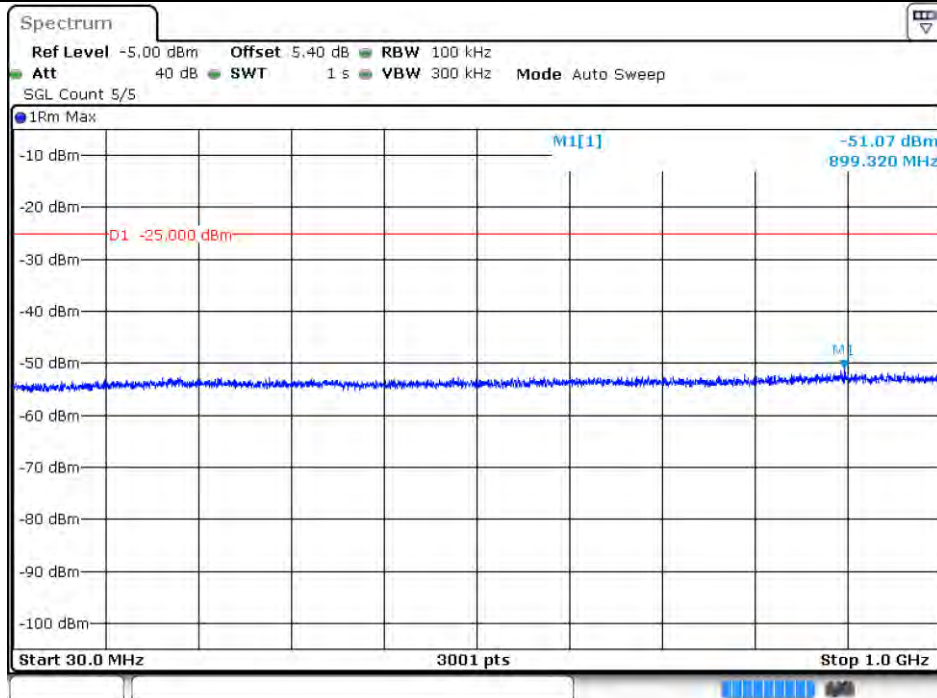


CA_7C_100RB+100RB_QPSK_21199+21001_1RB#0+0RB#0_12750_30000



Date: 9.DEC.2020 18:31:43

CA_7C_100RB+100RB_QPSK_21199+21001_0RB#0+1RB#99_30_1000

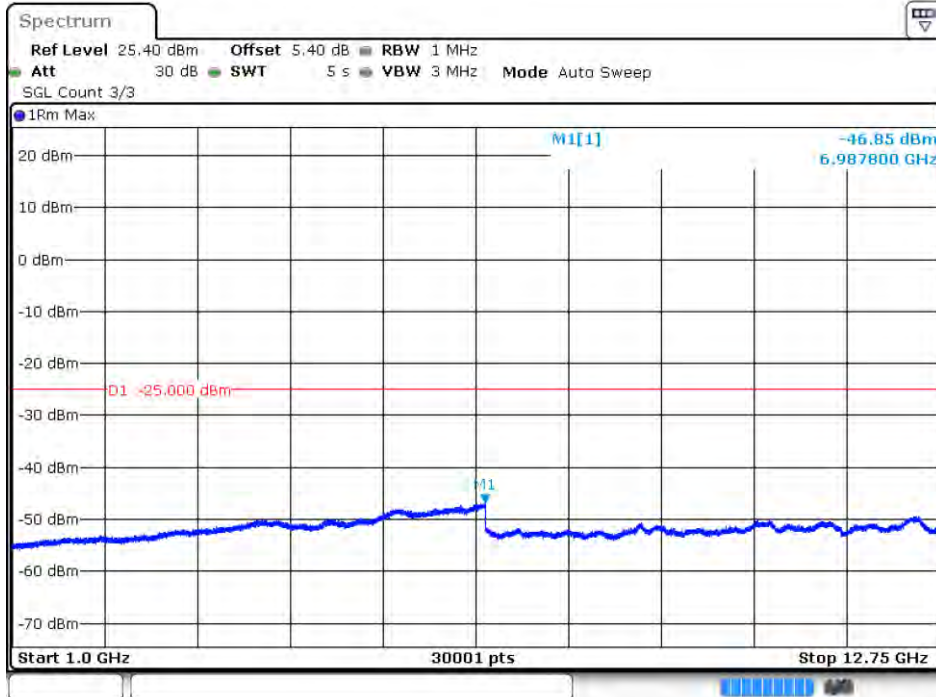


Date: 9.DEC.2020 18:18:29



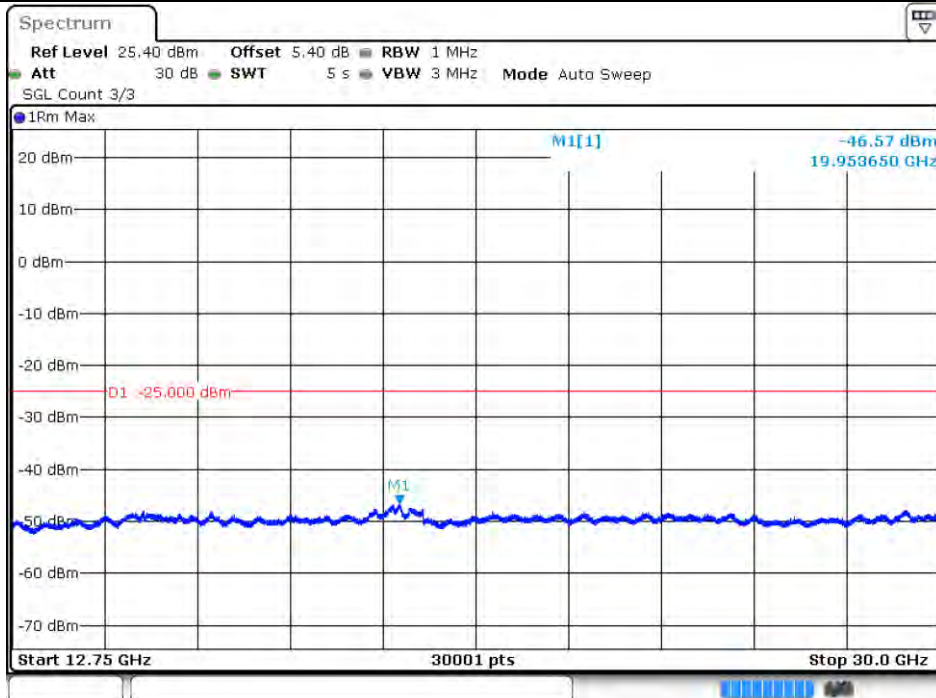


CA_7C_100RB+100RB_QPSK_21199+21001_ORB#0+1RB#99_1000_12750



Date: 9.DEC.2020 18:23:37

CA_7C_100RB+100RB_QPSK_21199+21001_ORB#0+1RB#99_12750_30000

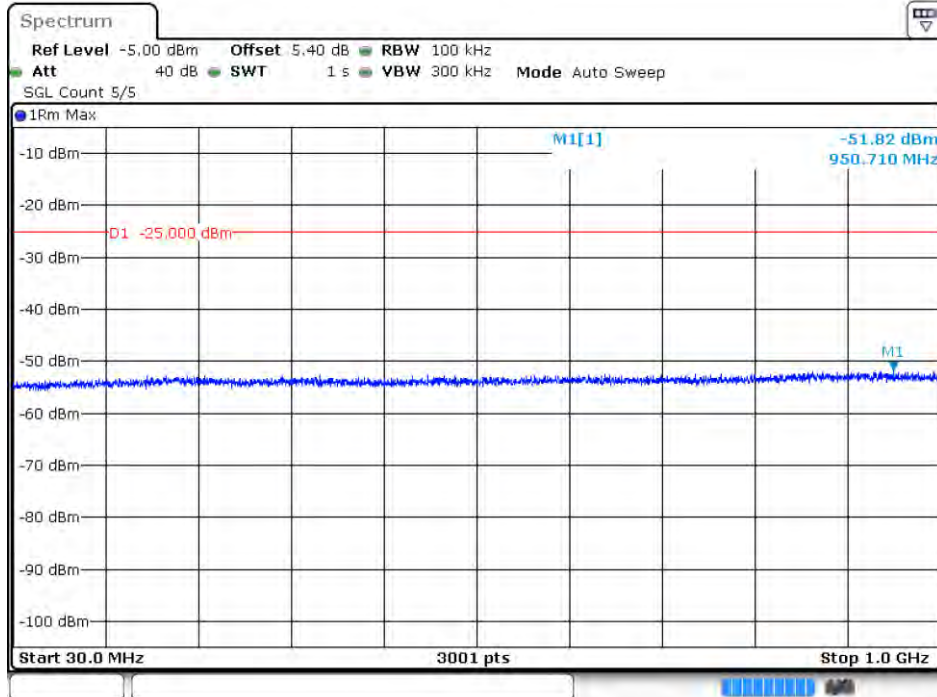


Date: 9.DEC.2020 18:32:00



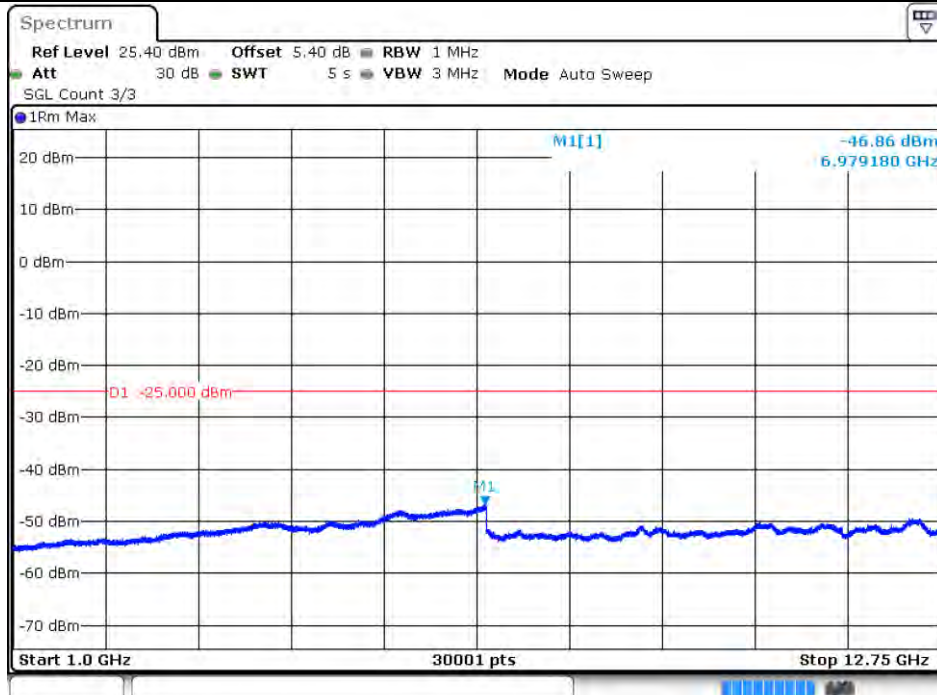


CA_7C_100RB+100RB_QPSK_21199+21001_100RB#0+100RB#0_30_1000



Date: 9.DEC.2020 18:18:36

CA_7C_100RB+100RB_QPSK_21199+21001_100RB#0+100RB#0_1000_12750

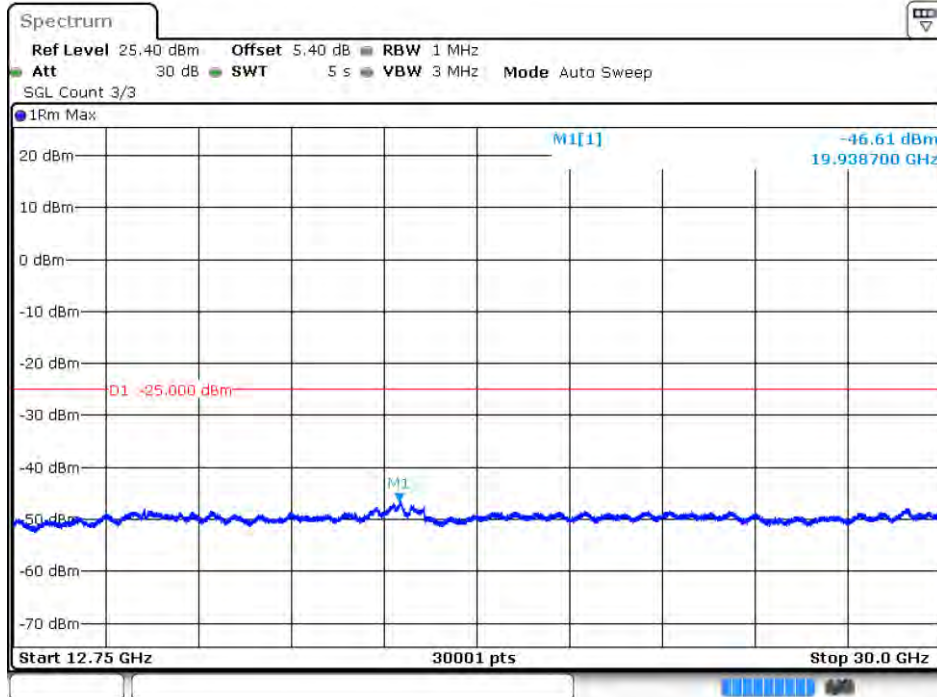


Date: 9.DEC.2020 18:23:54



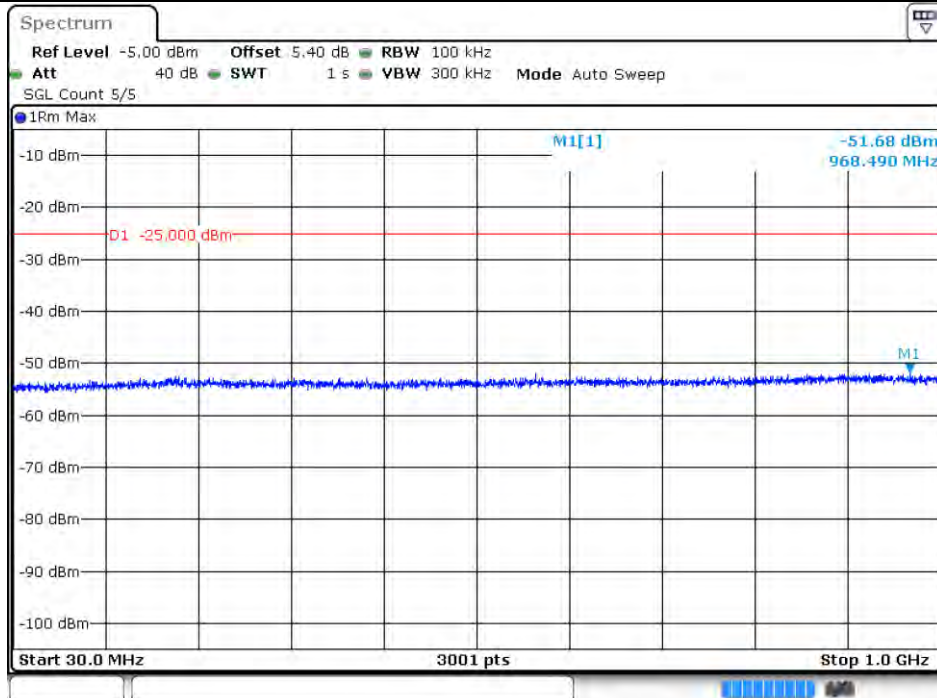


CA_7C_100RB+100RB_QPSK_21199+21001_100RB#0+100RB#0_12750_30000



Date: 9.DEC.2020 18:32:17

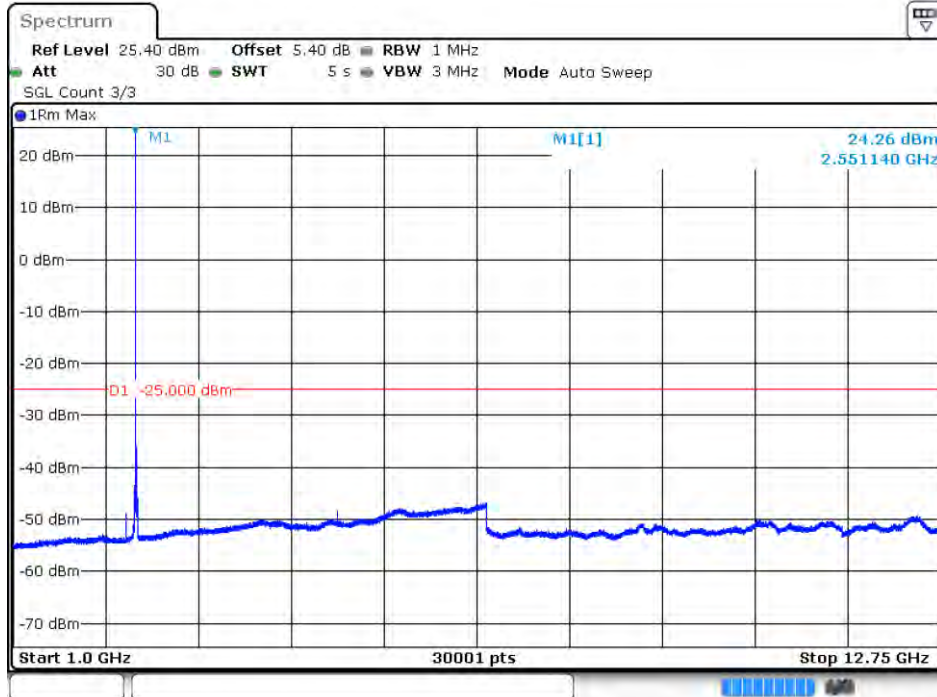
CA_7C_100RB+100RB_QPSK_21350+21152_1RB#0+0RB#0_30_1000



Date: 9.DEC.2020 18:19:33

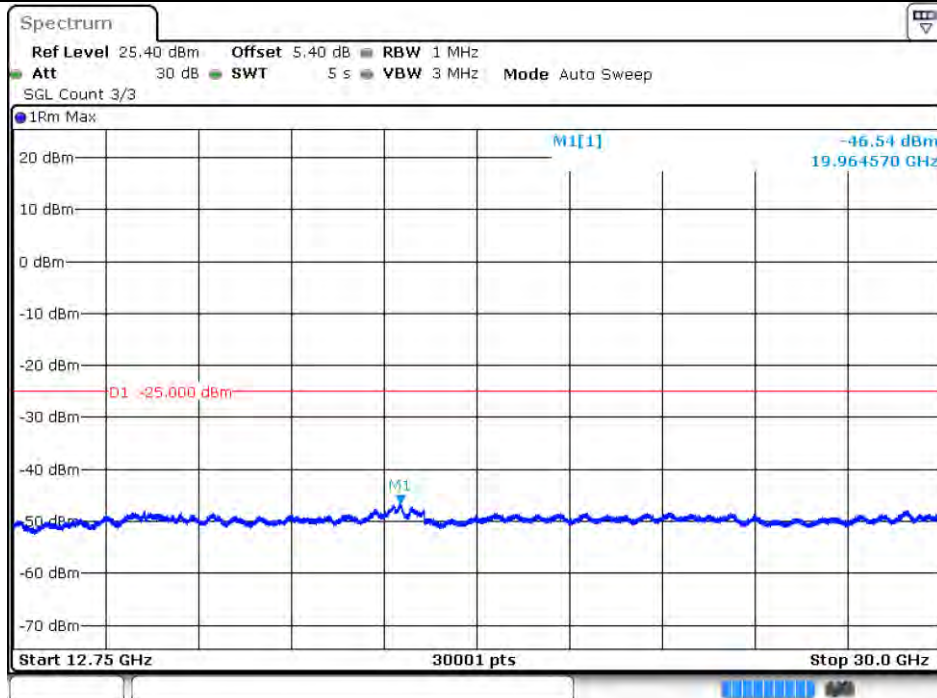


CA_7C_100RB+100RB_QPSK_21350+21152_1RB#0+0RB#0_1000_12750



Date: 9.DEC.2020 18:25:56

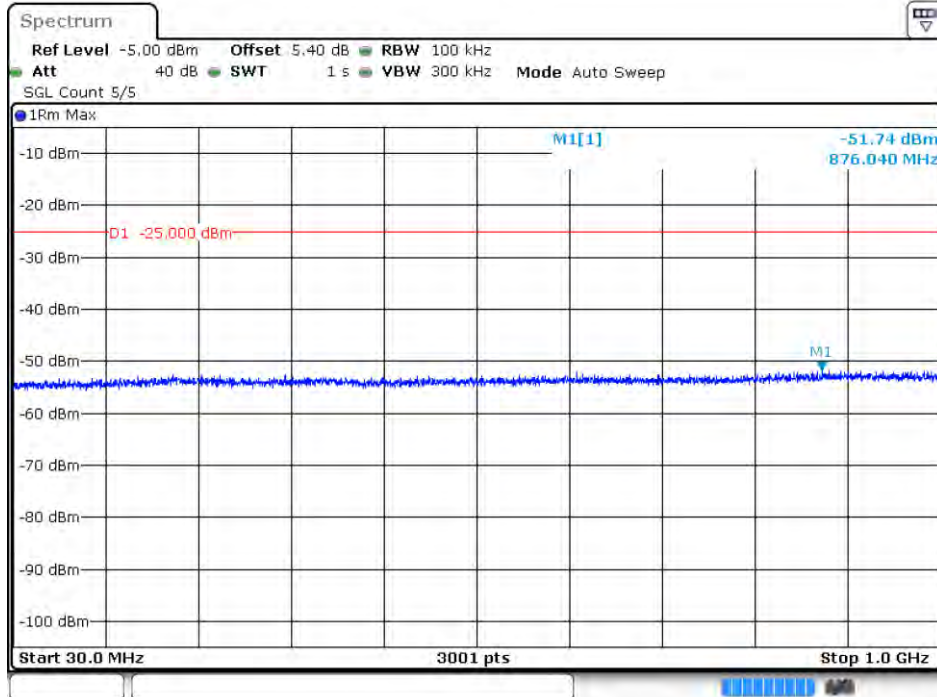
CA_7C_100RB+100RB_QPSK_21350+21152_1RB#0+0RB#0_12750_30000



Date: 9.DEC.2020 18:34:19

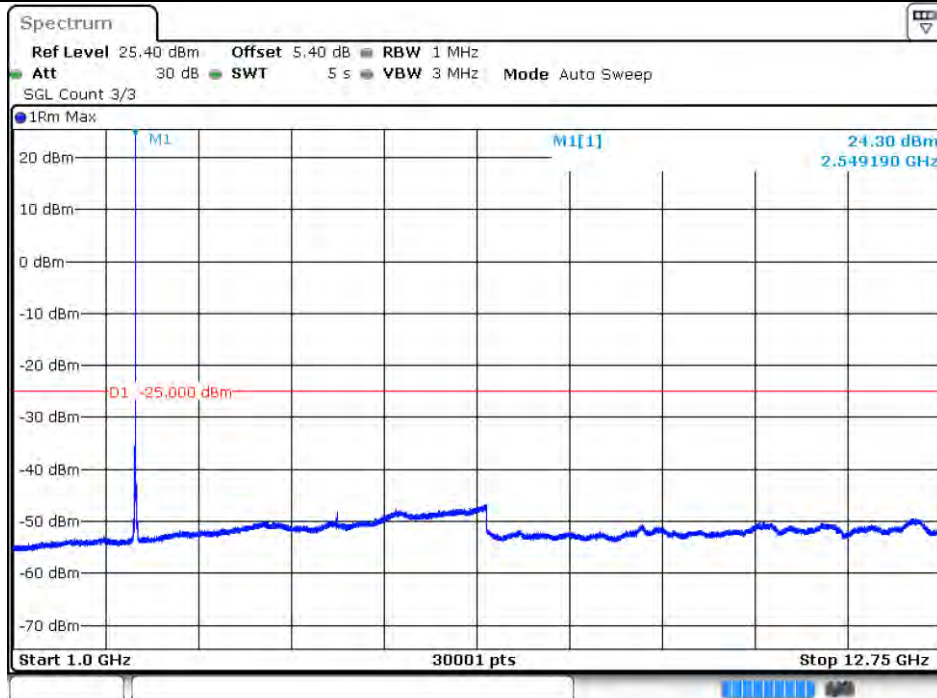


CA_7C_100RB+100RB_QPSK_21350+21152_0RB#0+1RB#99_30_1000



Date: 9.DEC.2020 18:19:39

CA_7C_100RB+100RB_QPSK_21350+21152_0RB#0+1RB#99_1000_12750

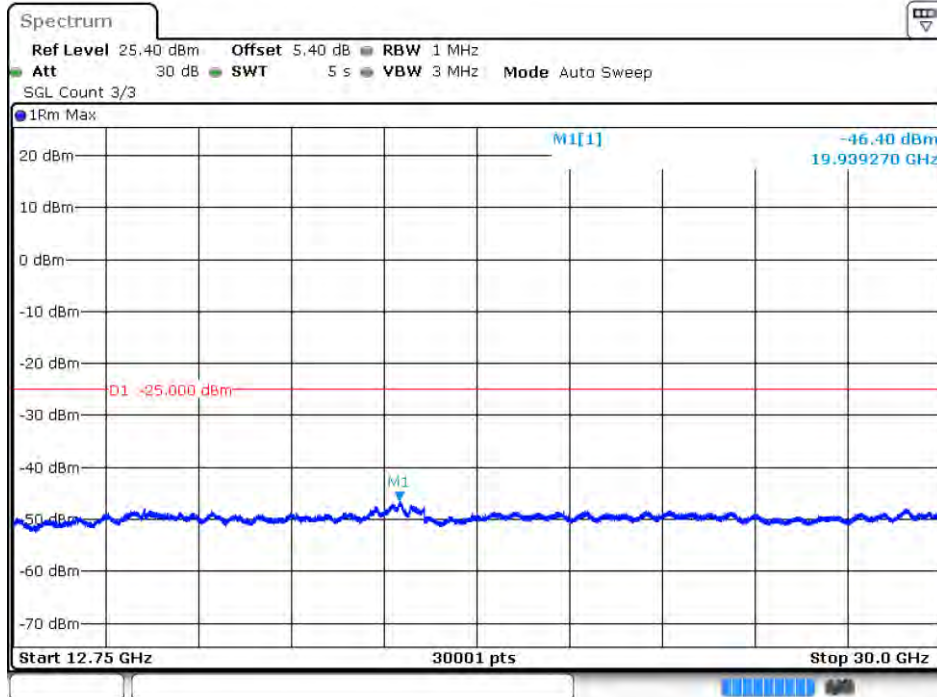


Date: 9.DEC.2020 18:26:12



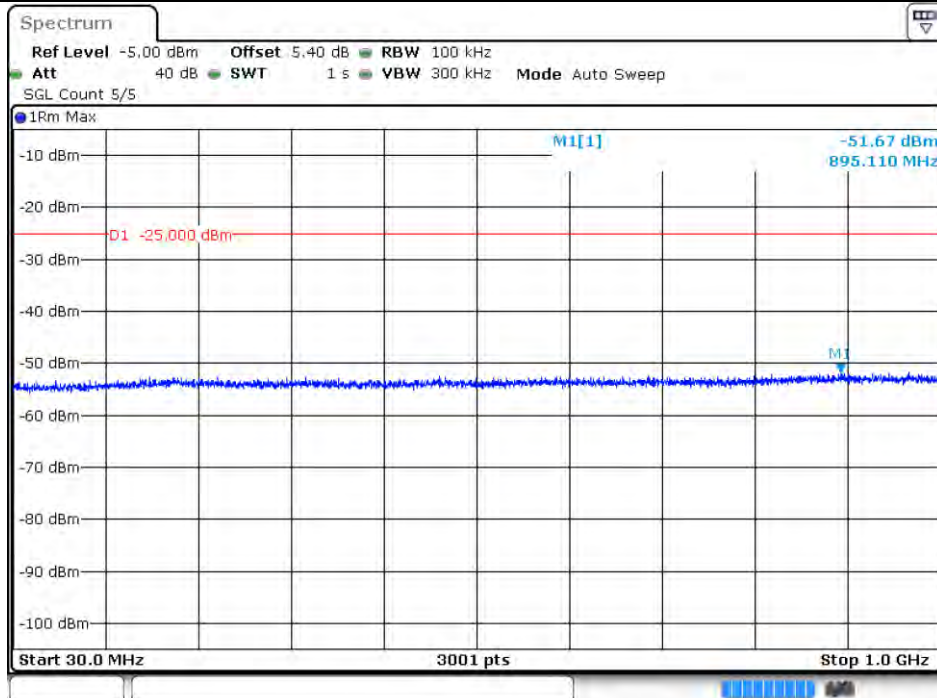


CA_7C_100RB+100RB_QPSK_21350+21152_0RB#0+1RB#99_12750_30000



Date: 9.DEC.2020 18:34:36

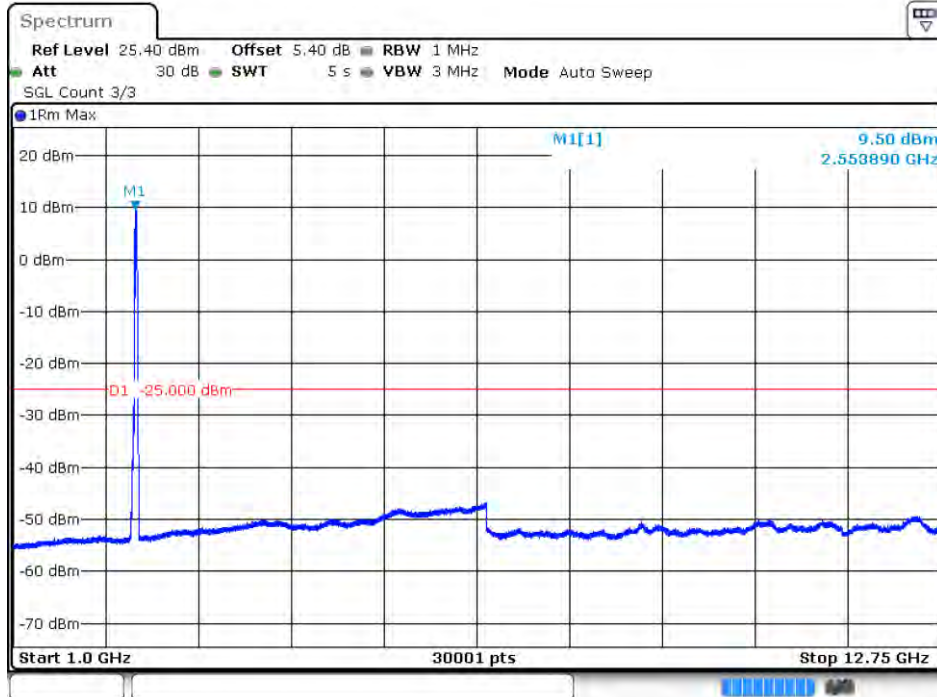
CA_7C_100RB+100RB_QPSK_21350+21152_100RB#0+100RB#0_30_1000



Date: 9.DEC.2020 18:19:45

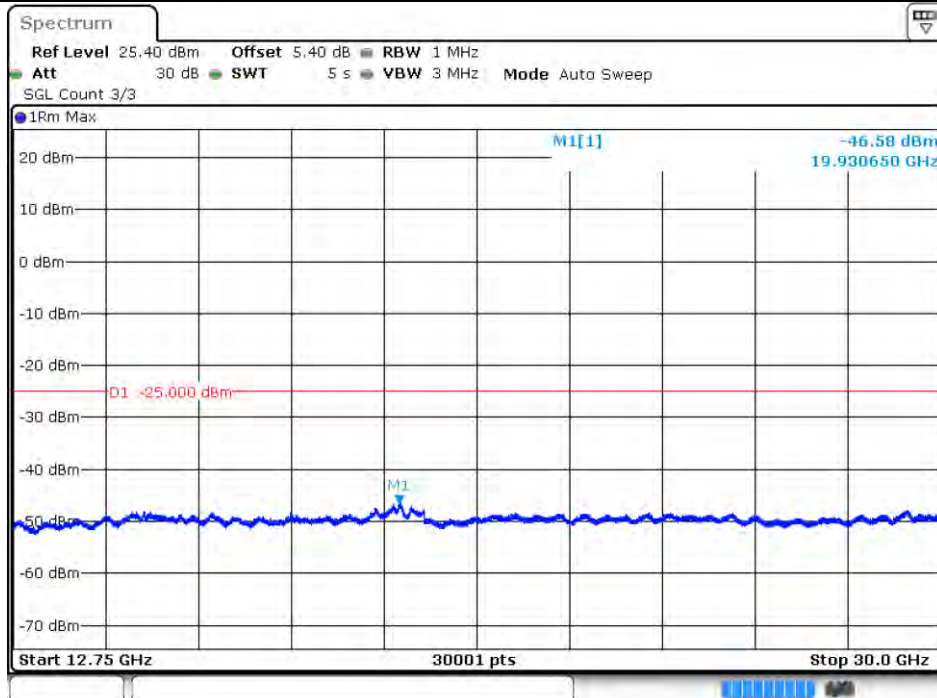


CA_7C_100RB+100RB_QPSK_21350+21152_100RB#0+100RB#0_1000_12750



Date: 9.DEC.2020 18:26:29

CA_7C_100RB+100RB_QPSK_21350+21152_100RB#0+100RB#0_12750_30000



Date: 9.DEC.2020 18:34:53



7 Field Strength of Spurious Radiation

7.1 Test Band = LTE Band CA_7C (ANT4)

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



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



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 (ANT3)

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



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

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:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz 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.



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

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

8 Frequency Stability

8.1 Frequency 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	2.62	0.001038	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	TN	NV	9.94	0.003914	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	TN	NV	-0.13	-0.000050	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	TN	NV	-6.45	-0.002533	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	TN	NV	9.99	0.003904	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	TN	NV	2.66	0.001063	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	TN	NV	-9.09	-0.003601	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	TN	NV	13.90	0.005474	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	TN	NV	-5.13	-0.002027	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	TN	NV	12.28	0.004825	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	TN	NV	11.93	0.004662	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	TN	NV	-8.18	-0.003266	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	TN	NV	-3.72	-0.001473	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	TN	NV	7.24	0.002851	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	TN	NV	5.73	0.002264	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	TN	NV	12.26	0.004819	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	TN	NV	-7.22	-0.002819	PASS



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

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



8.2 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	-11.65	-0.004648	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-10	8.84	0.003529	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	0	-13.42	-0.005356	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	10	-14.19	-0.005665	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	20	-11.09	-0.004424	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	30	-9.30	-0.003712	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	40	-3.24	-0.001294	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	50	-13.67	-0.005455	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-30	-0.41	-0.000161	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-20	-0.02	-0.000007	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-10	11.02	0.004363	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	0	-12.92	-0.005115	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	10	-5.33	-0.002112	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	20	6.36	0.002519	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	30	2.58	0.001021	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	40	-9.55	-0.003781	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	50	-4.10	-0.001625	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-30	4.83	0.001902	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-20	0.26	0.000103	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-10	9.21	0.003626	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	0	-9.84	-0.003872	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	10	7.70	0.003030	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	20	-7.99	-0.003144	PASS



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

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



CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	30	3.59	0.001414	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	40	-10.19	-0.004010	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	50	-6.28	-0.002472	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-30	-6.62	-0.002615	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-20	-5.85	-0.002314	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-10	-4.95	-0.001955	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	0	0.63	0.000248	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	10	1.34	0.000531	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	20	10.78	0.004261	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	30	-0.13	-0.000052	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	40	12.25	0.004843	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	50	-1.34	-0.000531	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-30	7.59	0.002981	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-20	-3.74	-0.001470	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-10	9.53	0.003745	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	0	-14.33	-0.005629	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	10	5.54	0.002177	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	20	10.22	0.004016	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	30	2.32	0.000910	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	40	0.77	0.000303	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	50	-5.17	-0.002032	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-30	-13.95	-0.005450	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-20	-7.83	-0.003059	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-10	14.06	0.005492	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	0	0.63	0.000245	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	10	-13.80	-0.005389	PASS



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

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



CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	20	6.88	0.002688	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	30	-9.11	-0.003559	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	40	-4.66	-0.001822	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	50	-3.21	-0.001255	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-30	-2.37	-0.000944	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-20	5.65	0.002254	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-10	-7.33	-0.002925	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	0	2.65	0.001058	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	10	0.91	0.000365	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	20	8.82	0.003519	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	30	-13.83	-0.005518	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	40	6.08	0.002428	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	50	-8.50	-0.003391	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-30	-4.79	-0.001898	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-20	-7.30	-0.002891	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-10	-12.06	-0.004777	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	0	-0.86	-0.000342	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	10	-3.22	-0.001277	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	20	3.41	0.001350	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	30	5.31	0.002104	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	40	0.40	0.000158	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	50	0.07	0.000030	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-30	10.54	0.004148	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-20	12.53	0.004933	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-10	4.49	0.001768	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	0	-12.05	-0.004745	PASS



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

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



CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	10	5.27	0.002075	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	20	-7.81	-0.003075	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	30	-6.78	-0.002669	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	40	-7.98	-0.003141	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	50	6.73	0.002649	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-30	7.35	0.002905	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-20	0.02	0.000007	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-10	9.08	0.003589	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	0	5.87	0.002321	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	10	-4.72	-0.001866	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	20	12.97	0.005128	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	30	-11.30	-0.004468	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	40	1.40	0.000554	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	50	-7.87	-0.003110	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-30	12.87	0.005058	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-20	-2.50	-0.000984	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-10	4.85	0.001907	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	0	7.89	0.003100	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	10	-12.21	-0.004797	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	20	-1.53	-0.000599	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	30	11.32	0.004449	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	40	4.77	0.001876	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	50	-6.47	-0.002543	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-30	-8.81	-0.003443	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-20	1.36	0.000532	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-10	-0.24	-0.000093	PASS



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

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



CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	0	9.99	0.003903	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	10	3.19	0.001246	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	20	-12.23	-0.004777	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	30	4.06	0.001587	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	40	5.31	0.002073	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	50	8.28	0.003235	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-30	9.08	0.003624	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-20	-5.30	-0.002115	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-10	-6.76	-0.002697	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	0	3.53	0.001408	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	10	-3.29	-0.001314	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	20	-5.98	-0.002387	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	30	-0.53	-0.000210	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	40	0.24	0.000097	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	50	9.13	0.003642	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-30	-7.68	-0.003041	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-20	-2.51	-0.000994	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-10	-9.93	-0.003934	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	0	0.63	0.000250	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	10	-5.29	-0.002095	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	20	-12.46	-0.004935	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	30	-7.84	-0.003106	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	40	-4.31	-0.001705	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	50	-11.86	-0.004697	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-30	11.35	0.004466	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-20	-0.99	-0.000391	PASS



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

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



CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-10	-6.44	-0.002535	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	0	5.06	0.001992	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	10	-13.18	-0.005189	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	20	12.63	0.004973	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	30	-11.40	-0.004489	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	40	-11.04	-0.004344	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	50	-13.84	-0.005449	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-30	-6.69	-0.002645	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-20	-2.43	-0.000961	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-10	7.05	0.002785	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	0	1.58	0.000626	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	10	-10.96	-0.004332	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	20	-9.23	-0.003647	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	30	6.87	0.002714	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	40	-10.10	-0.003991	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	50	1.61	0.000635	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-30	1.68	0.000661	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-20	14.85	0.005837	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-10	3.46	0.001359	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	0	1.57	0.000617	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	10	-7.28	-0.002859	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	20	-3.88	-0.001524	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	30	8.28	0.003255	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	40	-6.71	-0.002638	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	50	8.09	0.003178	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-30	-14.52	-0.005672	PASS



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

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



CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-20	-6.47	-0.002529	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-10	-0.83	-0.000325	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	0	-13.03	-0.005091	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	10	-12.95	-0.005060	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	20	-7.30	-0.002852	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	30	-11.52	-0.004499	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	40	-1.94	-0.000758	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	50	9.06	0.003540	PASS

The End



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 26012053, or email: CN.Doccheck@sgs.com