



Appendix B

E-UTRA BAND 2



CONTENT

1.	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
2.	PEAK-TO-AVERAGE RATIO(CCDF)	13
1.1.	Test Result	13
1.2.	Test Plots.....	13
3.	MODULATION CHARACTERISTICS	17
2.1.	Test BAND = LTE BAND2	17
2.1.1.	Test Mode = LTE /TM1 20MHz.....	17
2.1.1.1.	Test Channel = MCH.....	17
2.1.2.	Test Mode = LTE /TM2 20MHz.....	18
2.1.2.1.	Test Channel = MCH.....	18
2.1.3.	Test Mode = LTE /TM3 20MHz.....	19
2.1.3.1.	Test Channel = MCH.....	19
4.	26dB BANDWIDTH AND OCCUPIED BANDWIDTH.....	20
3.1.	Test Result	20
3.2.	Test Plots.....	21
5.	BAND EDGE COMPLIANCE	40
4.1.	Test Plots.....	40
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	65
5.1.	Test Plots.....	65
7.	FIELD STRENGTH OF SPURIOUS RADIATION	72
6.1.	Test BAND = LTE BAND 2	72
6.1.1.	Test Mode =LTE/TM1 20MHz.....	72
6.1.1.1.	Test Channel = LCH.....	72
6.1.1.2.	Test Channel = MCH.....	72
6.1.1.3.	Test Channel = HCH	73
8.	FREQUENCY STABILITY	74
7.1.	Frequency Vs Voltage	74
7.2.	Frequency Vs Temperature	75



1. Effective (Isotropic) Radiated Power

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
BAND2	1.4MHz	QPSK	18607	1RB#0	23.54	27.54	33.00	PASS
BAND2	1.4MHz	QPSK	18607	1RB#2	23.58	27.58	33.00	PASS
BAND2	1.4MHz	QPSK	18607	1RB#5	23.62	27.62	33.00	PASS
BAND2	1.4MHz	QPSK	18607	3RB#0	23.62	27.62	33.00	PASS
BAND2	1.4MHz	QPSK	18607	3RB#1	23.63	27.63	33.00	PASS
BAND2	1.4MHz	QPSK	18607	3RB#3	23.64	27.64	33.00	PASS
BAND2	1.4MHz	QPSK	18607	6RB#0	22.67	26.67	33.00	PASS
BAND2	1.4MHz	QPSK	18900	1RB#0	23.61	27.61	33.00	PASS
BAND2	1.4MHz	QPSK	18900	1RB#2	23.60	27.60	33.00	PASS
BAND2	1.4MHz	QPSK	18900	1RB#5	23.56	27.56	33.00	PASS
BAND2	1.4MHz	QPSK	18900	3RB#0	23.61	27.61	33.00	PASS
BAND2	1.4MHz	QPSK	18900	3RB#1	23.62	27.62	33.00	PASS
BAND2	1.4MHz	QPSK	18900	3RB#3	23.57	27.57	33.00	PASS
BAND2	1.4MHz	QPSK	18900	6RB#0	22.57	26.57	33.00	PASS
BAND2	1.4MHz	QPSK	19193	1RB#0	23.48	27.48	33.00	PASS
BAND2	1.4MHz	QPSK	19193	1RB#2	23.37	27.37	33.00	PASS
BAND2	1.4MHz	QPSK	19193	1RB#5	23.39	27.39	33.00	PASS
BAND2	1.4MHz	QPSK	19193	3RB#0	23.38	27.38	33.00	PASS
BAND2	1.4MHz	QPSK	19193	3RB#1	23.37	27.37	33.00	PASS
BAND2	1.4MHz	QPSK	19193	3RB#3	23.37	27.37	33.00	PASS
BAND2	1.4MHz	QPSK	19193	6RB#0	22.45	26.45	33.00	PASS
BAND2	1.4MHz	16QAM	18607	1RB#0	22.54	26.54	33.00	PASS
BAND2	1.4MHz	16QAM	18607	1RB#2	22.48	26.48	33.00	PASS
BAND2	1.4MHz	16QAM	18607	1RB#5	22.48	26.48	33.00	PASS
BAND2	1.4MHz	16QAM	18607	3RB#0	22.46	26.46	33.00	PASS
BAND2	1.4MHz	16QAM	18607	3RB#1	22.70	26.70	33.00	PASS
BAND2	1.4MHz	16QAM	18607	3RB#3	22.82	26.82	33.00	PASS
BAND2	1.4MHz	16QAM	18607	6RB#0	21.55	25.55	33.00	PASS
BAND2	1.4MHz	16QAM	18900	1RB#0	22.78	26.78	33.00	PASS
BAND2	1.4MHz	16QAM	18900	1RB#2	22.69	26.69	33.00	PASS
BAND2	1.4MHz	16QAM	18900	1RB#5	22.42	26.42	33.00	PASS
BAND2	1.4MHz	16QAM	18900	3RB#0	22.67	26.67	33.00	PASS
BAND2	1.4MHz	16QAM	18900	3RB#1	22.65	26.65	33.00	PASS
BAND2	1.4MHz	16QAM	18900	3RB#3	22.55	26.55	33.00	PASS
BAND2	1.4MHz	16QAM	18900	6RB#0	21.62	25.62	33.00	PASS
BAND2	1.4MHz	16QAM	19193	1RB#0	22.54	26.54	33.00	PASS



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

Report No.: SZEM180500437001

Page: 4 of 100

BAND2	1.4MHz	16QAM	19193	1RB#2	22.17	26.17	33.00	PASS
BAND2	1.4MHz	16QAM	19193	1RB#5	22.46	26.46	33.00	PASS
BAND2	1.4MHz	16QAM	19193	3RB#0	22.28	26.28	33.00	PASS
BAND2	1.4MHz	16QAM	19193	3RB#1	22.34	26.34	33.00	PASS
BAND2	1.4MHz	16QAM	19193	3RB#3	22.42	26.42	33.00	PASS
BAND2	1.4MHz	16QAM	19193	6RB#0	21.32	25.32	33.00	PASS
BAND2	1.4MHz	64QAM	18607	1RB#0	21.69	25.69	33.00	PASS
BAND2	1.4MHz	64QAM	18607	1RB#2	21.54	25.54	33.00	PASS
BAND2	1.4MHz	64QAM	18607	1RB#5	21.62	25.62	33.00	PASS
BAND2	1.4MHz	64QAM	18607	3RB#0	21.40	25.40	33.00	PASS
BAND2	1.4MHz	64QAM	18607	3RB#1	21.68	25.68	33.00	PASS
BAND2	1.4MHz	64QAM	18607	3RB#3	21.88	25.88	33.00	PASS
BAND2	1.4MHz	64QAM	18607	6RB#0	20.64	24.64	33.00	PASS
BAND2	1.4MHz	64QAM	18900	1RB#0	21.84	25.84	33.00	PASS
BAND2	1.4MHz	64QAM	18900	1RB#2	21.82	25.82	33.00	PASS
BAND2	1.4MHz	64QAM	18900	1RB#5	21.48	25.48	33.00	PASS
BAND2	1.4MHz	64QAM	18900	3RB#0	21.60	25.60	33.00	PASS
BAND2	1.4MHz	64QAM	18900	3RB#1	21.71	25.71	33.00	PASS
BAND2	1.4MHz	64QAM	18900	3RB#3	21.70	25.70	33.00	PASS
BAND2	1.4MHz	64QAM	18900	6RB#0	20.62	24.62	33.00	PASS
BAND2	1.4MHz	64QAM	19193	1RB#0	21.65	25.65	33.00	PASS
BAND2	1.4MHz	64QAM	19193	1RB#2	21.16	25.16	33.00	PASS
BAND2	1.4MHz	64QAM	19193	1RB#5	21.61	25.61	33.00	PASS
BAND2	1.4MHz	64QAM	19193	3RB#0	21.42	25.42	33.00	PASS
BAND2	1.4MHz	64QAM	19193	3RB#1	21.30	25.30	33.00	PASS
BAND2	1.4MHz	64QAM	19193	3RB#3	21.52	25.52	33.00	PASS
BAND2	1.4MHz	64QAM	19193	6RB#0	20.39	24.39	33.00	PASS
BAND2	3MHz	QPSK	18615	1RB#0	23.60	27.60	33.00	PASS
BAND2	3MHz	QPSK	18615	1RB#14	23.55	27.55	33.00	PASS
BAND2	3MHz	QPSK	18615	1RB#8	23.65	27.65	33.00	PASS
BAND2	3MHz	QPSK	18615	8RB#0	22.71	26.71	33.00	PASS
BAND2	3MHz	QPSK	18615	8RB#4	22.68	26.68	33.00	PASS
BAND2	3MHz	QPSK	18615	8RB#7	22.63	26.63	33.00	PASS
BAND2	3MHz	QPSK	18615	15RB#0	22.68	26.68	33.00	PASS
BAND2	3MHz	QPSK	18900	1RB#0	23.59	27.59	33.00	PASS
BAND2	3MHz	QPSK	18900	1RB#14	23.54	27.54	33.00	PASS
BAND2	3MHz	QPSK	18900	1RB#8	23.57	27.57	33.00	PASS
BAND2	3MHz	QPSK	18900	8RB#0	22.65	26.65	33.00	PASS
BAND2	3MHz	QPSK	18900	8RB#4	22.59	26.59	33.00	PASS
BAND2	3MHz	QPSK	18900	8RB#7	22.59	26.59	33.00	PASS
BAND2	3MHz	QPSK	18900	15RB#0	22.58	26.58	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 5 of 100

BAND2	3MHz	QPSK	19185	1RB#0	23.48	27.48	33.00	PASS
BAND2	3MHz	QPSK	19185	1RB#14	23.35	27.35	33.00	PASS
BAND2	3MHz	QPSK	19185	1RB#8	23.50	27.50	33.00	PASS
BAND2	3MHz	QPSK	19185	8RB#0	22.57	26.57	33.00	PASS
BAND2	3MHz	QPSK	19185	8RB#4	22.54	26.54	33.00	PASS
BAND2	3MHz	QPSK	19185	8RB#7	22.48	26.48	33.00	PASS
BAND2	3MHz	QPSK	19185	15RB#0	22.56	26.56	33.00	PASS
BAND2	3MHz	16QAM	18615	1RB#0	22.92	26.92	33.00	PASS
BAND2	3MHz	16QAM	18615	1RB#14	22.71	26.71	33.00	PASS
BAND2	3MHz	16QAM	18615	1RB#8	22.81	26.81	33.00	PASS
BAND2	3MHz	16QAM	18615	8RB#0	21.69	25.69	33.00	PASS
BAND2	3MHz	16QAM	18615	8RB#4	21.62	25.62	33.00	PASS
BAND2	3MHz	16QAM	18615	8RB#7	21.67	25.67	33.00	PASS
BAND2	3MHz	16QAM	18615	15RB#0	21.68	25.68	33.00	PASS
BAND2	3MHz	16QAM	18900	1RB#0	22.90	26.90	33.00	PASS
BAND2	3MHz	16QAM	18900	1RB#14	22.81	26.81	33.00	PASS
BAND2	3MHz	16QAM	18900	1RB#8	22.73	26.73	33.00	PASS
BAND2	3MHz	16QAM	18900	8RB#0	21.71	25.71	33.00	PASS
BAND2	3MHz	16QAM	18900	8RB#4	21.67	25.67	33.00	PASS
BAND2	3MHz	16QAM	18900	8RB#7	21.73	25.73	33.00	PASS
BAND2	3MHz	16QAM	18900	15RB#0	21.67	25.67	33.00	PASS
BAND2	3MHz	16QAM	19185	1RB#0	22.73	26.73	33.00	PASS
BAND2	3MHz	16QAM	19185	1RB#14	22.78	26.78	33.00	PASS
BAND2	3MHz	16QAM	19185	1RB#8	22.87	26.87	33.00	PASS
BAND2	3MHz	16QAM	19185	8RB#0	21.58	25.58	33.00	PASS
BAND2	3MHz	16QAM	19185	8RB#4	21.63	25.63	33.00	PASS
BAND2	3MHz	16QAM	19185	8RB#7	21.73	25.73	33.00	PASS
BAND2	3MHz	16QAM	19185	15RB#0	21.71	25.71	33.00	PASS
BAND2	3MHz	64QAM	18615	1RB#0	21.81	25.81	33.00	PASS
BAND2	3MHz	64QAM	18615	1RB#14	21.68	25.68	33.00	PASS
BAND2	3MHz	64QAM	18615	1RB#8	21.69	25.69	33.00	PASS
BAND2	3MHz	64QAM	18615	8RB#0	20.69	24.69	33.00	PASS
BAND2	3MHz	64QAM	18615	8RB#4	20.55	24.55	33.00	PASS
BAND2	3MHz	64QAM	18615	8RB#7	20.66	24.66	33.00	PASS
BAND2	3MHz	64QAM	18615	15RB#0	20.86	24.86	33.00	PASS
BAND2	3MHz	64QAM	18900	1RB#0	21.85	25.85	33.00	PASS
BAND2	3MHz	64QAM	18900	1RB#14	21.93	25.93	33.00	PASS
BAND2	3MHz	64QAM	18900	1RB#8	21.73	25.73	33.00	PASS
BAND2	3MHz	64QAM	18900	8RB#0	20.71	24.71	33.00	PASS
BAND2	3MHz	64QAM	18900	8RB#4	20.59	24.59	33.00	PASS
BAND2	3MHz	64QAM	18900	8RB#7	20.75	24.75	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 6 of 100

BAND2	3MHz	64QAM	18900	15RB#0	20.59	24.59	33.00	PASS
BAND2	3MHz	64QAM	19185	1RB#0	21.72	25.72	33.00	PASS
BAND2	3MHz	64QAM	19185	1RB#14	21.73	25.73	33.00	PASS
BAND2	3MHz	64QAM	19185	1RB#8	21.86	25.86	33.00	PASS
BAND2	3MHz	64QAM	19185	8RB#0	20.58	24.58	33.00	PASS
BAND2	3MHz	64QAM	19185	8RB#4	20.56	24.56	33.00	PASS
BAND2	3MHz	64QAM	19185	8RB#7	20.75	24.75	33.00	PASS
BAND2	3MHz	64QAM	19185	15RB#0	20.67	24.67	33.00	PASS
BAND2	5MHz	QPSK	18625	1RB#0	23.72	27.72	33.00	PASS
BAND2	5MHz	QPSK	18625	1RB#12	23.62	27.62	33.00	PASS
BAND2	5MHz	QPSK	18625	1RB#24	23.63	27.63	33.00	PASS
BAND2	5MHz	QPSK	18625	12RB#0	22.82	26.82	33.00	PASS
BAND2	5MHz	QPSK	18625	12RB#13	22.74	26.74	33.00	PASS
BAND2	5MHz	QPSK	18625	12RB#6	22.74	26.74	33.00	PASS
BAND2	5MHz	QPSK	18625	25RB#0	22.71	26.71	33.00	PASS
BAND2	5MHz	QPSK	18900	1RB#0	23.68	27.68	33.00	PASS
BAND2	5MHz	QPSK	18900	1RB#12	23.60	27.60	33.00	PASS
BAND2	5MHz	QPSK	18900	1RB#24	23.65	27.65	33.00	PASS
BAND2	5MHz	QPSK	18900	12RB#0	22.76	26.76	33.00	PASS
BAND2	5MHz	QPSK	18900	12RB#13	22.70	26.70	33.00	PASS
BAND2	5MHz	QPSK	18900	12RB#6	22.76	26.76	33.00	PASS
BAND2	5MHz	QPSK	18900	25RB#0	22.67	26.67	33.00	PASS
BAND2	5MHz	QPSK	19175	1RB#0	23.64	27.64	33.00	PASS
BAND2	5MHz	QPSK	19175	1RB#12	23.56	27.56	33.00	PASS
BAND2	5MHz	QPSK	19175	1RB#24	23.43	27.43	33.00	PASS
BAND2	5MHz	QPSK	19175	12RB#0	22.76	26.76	33.00	PASS
BAND2	5MHz	QPSK	19175	12RB#13	22.69	26.69	33.00	PASS
BAND2	5MHz	QPSK	19175	12RB#6	22.69	26.69	33.00	PASS
BAND2	5MHz	QPSK	19175	25RB#0	22.67	26.67	33.00	PASS
BAND2	5MHz	16QAM	18625	1RB#0	22.77	26.77	33.00	PASS
BAND2	5MHz	16QAM	18625	1RB#12	22.64	26.64	33.00	PASS
BAND2	5MHz	16QAM	18625	1RB#24	22.81	26.81	33.00	PASS
BAND2	5MHz	16QAM	18625	12RB#0	21.86	25.86	33.00	PASS
BAND2	5MHz	16QAM	18625	12RB#13	21.92	25.92	33.00	PASS
BAND2	5MHz	16QAM	18625	12RB#6	21.81	25.81	33.00	PASS
BAND2	5MHz	16QAM	18625	25RB#0	21.80	25.80	33.00	PASS
BAND2	5MHz	16QAM	18900	1RB#0	22.86	26.86	33.00	PASS
BAND2	5MHz	16QAM	18900	1RB#12	22.66	26.66	33.00	PASS
BAND2	5MHz	16QAM	18900	1RB#24	22.75	26.75	33.00	PASS
BAND2	5MHz	16QAM	18900	12RB#0	21.91	25.91	33.00	PASS
BAND2	5MHz	16QAM	18900	12RB#13	21.78	25.78	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 7 of 100

BAND2	5MHz	16QAM	18900	12RB#6	21.77	25.77	33.00	PASS
BAND2	5MHz	16QAM	18900	25RB#0	21.79	25.79	33.00	PASS
BAND2	5MHz	16QAM	19175	1RB#0	22.68	26.68	33.00	PASS
BAND2	5MHz	16QAM	19175	1RB#12	22.69	26.69	33.00	PASS
BAND2	5MHz	16QAM	19175	1RB#24	22.52	26.52	33.00	PASS
BAND2	5MHz	16QAM	19175	12RB#0	21.83	25.83	33.00	PASS
BAND2	5MHz	16QAM	19175	12RB#13	21.70	25.70	33.00	PASS
BAND2	5MHz	16QAM	19175	12RB#6	21.86	25.86	33.00	PASS
BAND2	5MHz	16QAM	19175	25RB#0	21.68	25.68	33.00	PASS
BAND2	5MHz	64QAM	18625	1RB#0	21.98	25.98	33.00	PASS
BAND2	5MHz	64QAM	18625	1RB#12	21.97	25.97	33.00	PASS
BAND2	5MHz	64QAM	18625	1RB#24	21.84	25.84	33.00	PASS
BAND2	5MHz	64QAM	18625	12RB#0	20.91	24.91	33.00	PASS
BAND2	5MHz	64QAM	18625	12RB#13	20.91	24.91	33.00	PASS
BAND2	5MHz	64QAM	18625	12RB#6	20.82	24.82	33.00	PASS
BAND2	5MHz	64QAM	18625	25RB#0	20.89	24.89	33.00	PASS
BAND2	5MHz	64QAM	18900	1RB#0	21.88	25.88	33.00	PASS
BAND2	5MHz	64QAM	18900	1RB#12	21.83	25.83	33.00	PASS
BAND2	5MHz	64QAM	18900	1RB#24	21.85	25.85	33.00	PASS
BAND2	5MHz	64QAM	18900	12RB#0	20.96	24.96	33.00	PASS
BAND2	5MHz	64QAM	18900	12RB#13	20.84	24.84	33.00	PASS
BAND2	5MHz	64QAM	18900	12RB#6	20.88	24.88	33.00	PASS
BAND2	5MHz	64QAM	18900	25RB#0	20.96	24.96	33.00	PASS
BAND2	5MHz	64QAM	19175	1RB#0	21.84	25.84	33.00	PASS
BAND2	5MHz	64QAM	19175	1RB#12	21.84	25.84	33.00	PASS
BAND2	5MHz	64QAM	19175	1RB#24	21.55	25.55	33.00	PASS
BAND2	5MHz	64QAM	19175	12RB#0	20.98	24.98	33.00	PASS
BAND2	5MHz	64QAM	19175	12RB#13	20.96	24.96	33.00	PASS
BAND2	5MHz	64QAM	19175	12RB#6	20.89	24.89	33.00	PASS
BAND2	5MHz	64QAM	19175	25RB#0	20.89	24.89	33.00	PASS
BAND2	10MHz	QPSK	18650	1RB#0	23.73	27.73	33.00	PASS
BAND2	10MHz	QPSK	18650	1RB#24	23.65	27.65	33.00	PASS
BAND2	10MHz	QPSK	18650	1RB#49	23.64	27.64	33.00	PASS
BAND2	10MHz	QPSK	18650	25RB#0	22.68	26.68	33.00	PASS
BAND2	10MHz	QPSK	18650	25RB#12	22.64	26.64	33.00	PASS
BAND2	10MHz	QPSK	18650	25RB#25	22.63	26.63	33.00	PASS
BAND2	10MHz	QPSK	18650	50RB#0	22.64	26.64	33.00	PASS
BAND2	10MHz	QPSK	18900	1RB#0	23.79	27.79	33.00	PASS
BAND2	10MHz	QPSK	18900	1RB#24	23.74	27.74	33.00	PASS
BAND2	10MHz	QPSK	18900	1RB#49	23.70	27.70	33.00	PASS
BAND2	10MHz	QPSK	18900	25RB#0	22.68	26.68	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 8 of 100

BAND2	10MHz	QPSK	18900	25RB#12	22.69	26.69	33.00	PASS
BAND2	10MHz	QPSK	18900	25RB#25	22.66	26.66	33.00	PASS
BAND2	10MHz	QPSK	18900	50RB#0	22.61	26.61	33.00	PASS
BAND2	10MHz	QPSK	19150	1RB#0	23.62	27.62	33.00	PASS
BAND2	10MHz	QPSK	19150	1RB#24	23.69	27.69	33.00	PASS
BAND2	10MHz	QPSK	19150	1RB#49	23.50	27.50	33.00	PASS
BAND2	10MHz	QPSK	19150	25RB#0	22.66	26.66	33.00	PASS
BAND2	10MHz	QPSK	19150	25RB#12	22.70	26.70	33.00	PASS
BAND2	10MHz	QPSK	19150	25RB#25	22.61	26.61	33.00	PASS
BAND2	10MHz	QPSK	19150	50RB#0	22.58	26.58	33.00	PASS
BAND2	10MHz	16QAM	18650	1RB#0	22.82	26.82	33.00	PASS
BAND2	10MHz	16QAM	18650	1RB#24	22.83	26.83	33.00	PASS
BAND2	10MHz	16QAM	18650	1RB#49	22.80	26.80	33.00	PASS
BAND2	10MHz	16QAM	18650	25RB#0	21.83	25.83	33.00	PASS
BAND2	10MHz	16QAM	18650	25RB#12	21.65	25.65	33.00	PASS
BAND2	10MHz	16QAM	18650	25RB#25	21.76	25.76	33.00	PASS
BAND2	10MHz	16QAM	18650	50RB#0	21.67	25.67	33.00	PASS
BAND2	10MHz	16QAM	18900	1RB#0	22.83	26.83	33.00	PASS
BAND2	10MHz	16QAM	18900	1RB#24	22.86	26.86	33.00	PASS
BAND2	10MHz	16QAM	18900	1RB#49	22.74	26.74	33.00	PASS
BAND2	10MHz	16QAM	18900	25RB#0	21.87	25.87	33.00	PASS
BAND2	10MHz	16QAM	18900	25RB#12	21.79	25.79	33.00	PASS
BAND2	10MHz	16QAM	18900	25RB#25	21.71	25.71	33.00	PASS
BAND2	10MHz	16QAM	18900	50RB#0	21.77	25.77	33.00	PASS
BAND2	10MHz	16QAM	19150	1RB#0	22.66	26.66	33.00	PASS
BAND2	10MHz	16QAM	19150	1RB#24	22.73	26.73	33.00	PASS
BAND2	10MHz	16QAM	19150	1RB#49	22.66	26.66	33.00	PASS
BAND2	10MHz	16QAM	19150	25RB#0	21.79	25.79	33.00	PASS
BAND2	10MHz	16QAM	19150	25RB#12	21.76	25.76	33.00	PASS
BAND2	10MHz	16QAM	19150	25RB#25	21.77	25.77	33.00	PASS
BAND2	10MHz	16QAM	19150	50RB#0	21.69	25.69	33.00	PASS
BAND2	10MHz	64QAM	18650	1RB#0	21.89	25.89	33.00	PASS
BAND2	10MHz	64QAM	18650	1RB#24	21.91	25.91	33.00	PASS
BAND2	10MHz	64QAM	18650	1RB#49	21.72	25.72	33.00	PASS
BAND2	10MHz	64QAM	18650	25RB#0	20.73	24.73	33.00	PASS
BAND2	10MHz	64QAM	18650	25RB#12	20.81	24.81	33.00	PASS
BAND2	10MHz	64QAM	18650	25RB#25	20.90	24.90	33.00	PASS
BAND2	10MHz	64QAM	18650	50RB#0	20.63	24.63	33.00	PASS
BAND2	10MHz	64QAM	18900	1RB#0	21.97	25.97	33.00	PASS
BAND2	10MHz	64QAM	18900	1RB#24	21.80	25.80	33.00	PASS
BAND2	10MHz	64QAM	18900	1RB#49	21.73	25.73	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 9 of 100

BAND2	10MHz	64QAM	18900	25RB#0	20.97	24.97	33.00	PASS
BAND2	10MHz	64QAM	18900	25RB#12	20.91	24.91	33.00	PASS
BAND2	10MHz	64QAM	18900	25RB#25	20.73	24.73	33.00	PASS
BAND2	10MHz	64QAM	18900	50RB#0	20.67	24.67	33.00	PASS
BAND2	10MHz	64QAM	19150	1RB#0	21.60	25.60	33.00	PASS
BAND2	10MHz	64QAM	19150	1RB#24	21.66	25.66	33.00	PASS
BAND2	10MHz	64QAM	19150	1RB#49	21.78	25.78	33.00	PASS
BAND2	10MHz	64QAM	19150	25RB#0	20.71	24.71	33.00	PASS
BAND2	10MHz	64QAM	19150	25RB#12	20.81	24.81	33.00	PASS
BAND2	10MHz	64QAM	19150	25RB#25	20.85	24.85	33.00	PASS
BAND2	10MHz	64QAM	19150	50RB#0	20.88	24.88	33.00	PASS
BAND2	15MHz	QPSK	18675	1RB#0	23.75	27.75	33.00	PASS
BAND2	15MHz	QPSK	18675	1RB#38	23.61	27.61	33.00	PASS
BAND2	15MHz	QPSK	18675	1RB#74	23.66	27.66	33.00	PASS
BAND2	15MHz	QPSK	18675	36RB#0	22.64	26.64	33.00	PASS
BAND2	15MHz	QPSK	18675	36RB#18	22.62	26.62	33.00	PASS
BAND2	15MHz	QPSK	18675	36RB#39	22.55	26.55	33.00	PASS
BAND2	15MHz	QPSK	18675	75RB#0	22.62	26.62	33.00	PASS
BAND2	15MHz	QPSK	18900	1RB#0	23.61	27.61	33.00	PASS
BAND2	15MHz	QPSK	18900	1RB#38	23.60	27.60	33.00	PASS
BAND2	15MHz	QPSK	18900	1RB#74	23.63	27.63	33.00	PASS
BAND2	15MHz	QPSK	18900	36RB#0	22.63	26.63	33.00	PASS
BAND2	15MHz	QPSK	18900	36RB#18	22.66	26.66	33.00	PASS
BAND2	15MHz	QPSK	18900	36RB#39	22.61	26.61	33.00	PASS
BAND2	15MHz	QPSK	18900	75RB#0	22.62	26.62	33.00	PASS
BAND2	15MHz	QPSK	19125	1RB#0	23.54	27.54	33.00	PASS
BAND2	15MHz	QPSK	19125	1RB#38	23.61	27.61	33.00	PASS
BAND2	15MHz	QPSK	19125	1RB#74	23.50	27.50	33.00	PASS
BAND2	15MHz	QPSK	19125	36RB#0	22.58	26.58	33.00	PASS
BAND2	15MHz	QPSK	19125	36RB#18	22.61	26.61	33.00	PASS
BAND2	15MHz	QPSK	19125	36RB#39	22.62	26.62	33.00	PASS
BAND2	15MHz	QPSK	19125	75RB#0	22.68	26.68	33.00	PASS
BAND2	15MHz	16QAM	18675	1RB#0	22.86	26.86	33.00	PASS
BAND2	15MHz	16QAM	18675	1RB#38	22.78	26.78	33.00	PASS
BAND2	15MHz	16QAM	18675	1RB#74	22.81	26.81	33.00	PASS
BAND2	15MHz	16QAM	18675	36RB#0	21.72	25.72	33.00	PASS
BAND2	15MHz	16QAM	18675	36RB#18	21.71	25.71	33.00	PASS
BAND2	15MHz	16QAM	18675	36RB#39	21.70	25.70	33.00	PASS
BAND2	15MHz	16QAM	18675	75RB#0	21.67	25.67	33.00	PASS
BAND2	15MHz	16QAM	18900	1RB#0	22.81	26.81	33.00	PASS
BAND2	15MHz	16QAM	18900	1RB#38	22.84	26.84	33.00	PASS

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



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

Report No.: SZEM180500437001

Page: 10 of 100

BAND2	15MHz	16QAM	18900	1RB#74	22.82	26.82	33.00	PASS
BAND2	15MHz	16QAM	18900	36RB#0	21.69	25.69	33.00	PASS
BAND2	15MHz	16QAM	18900	36RB#18	21.70	25.70	33.00	PASS
BAND2	15MHz	16QAM	18900	36RB#39	21.70	25.70	33.00	PASS
BAND2	15MHz	16QAM	18900	75RB#0	21.62	25.62	33.00	PASS
BAND2	15MHz	16QAM	19125	1RB#0	22.76	26.76	33.00	PASS
BAND2	15MHz	16QAM	19125	1RB#38	22.86	26.86	33.00	PASS
BAND2	15MHz	16QAM	19125	1RB#74	22.59	26.59	33.00	PASS
BAND2	15MHz	16QAM	19125	36RB#0	21.70	25.70	33.00	PASS
BAND2	15MHz	16QAM	19125	36RB#18	21.72	25.72	33.00	PASS
BAND2	15MHz	16QAM	19125	36RB#39	21.63	25.63	33.00	PASS
BAND2	15MHz	16QAM	19125	75RB#0	21.62	25.62	33.00	PASS
BAND2	15MHz	64QAM	18675	1RB#0	21.86	25.86	33.00	PASS
BAND2	15MHz	64QAM	18675	1RB#38	21.92	25.92	33.00	PASS
BAND2	15MHz	64QAM	18675	1RB#74	21.91	25.91	33.00	PASS
BAND2	15MHz	64QAM	18675	36RB#0	20.68	24.68	33.00	PASS
BAND2	15MHz	64QAM	18675	36RB#18	20.72	24.72	33.00	PASS
BAND2	15MHz	64QAM	18675	36RB#39	20.85	24.85	33.00	PASS
BAND2	15MHz	64QAM	18675	75RB#0	20.71	24.71	33.00	PASS
BAND2	15MHz	64QAM	18900	1RB#0	21.99	25.99	33.00	PASS
BAND2	15MHz	64QAM	18900	1RB#38	21.76	25.76	33.00	PASS
BAND2	15MHz	64QAM	18900	1RB#74	21.90	25.90	33.00	PASS
BAND2	15MHz	64QAM	18900	36RB#0	20.85	24.85	33.00	PASS
BAND2	15MHz	64QAM	18900	36RB#18	20.74	24.74	33.00	PASS
BAND2	15MHz	64QAM	18900	36RB#39	20.67	24.67	33.00	PASS
BAND2	15MHz	64QAM	18900	75RB#0	20.59	24.59	33.00	PASS
BAND2	15MHz	64QAM	19125	1RB#0	21.93	25.93	33.00	PASS
BAND2	15MHz	64QAM	19125	1RB#38	21.87	25.87	33.00	PASS
BAND2	15MHz	64QAM	19125	1RB#74	21.73	25.73	33.00	PASS
BAND2	15MHz	64QAM	19125	36RB#0	20.88	24.88	33.00	PASS
BAND2	15MHz	64QAM	19125	36RB#18	20.73	24.73	33.00	PASS
BAND2	15MHz	64QAM	19125	36RB#39	20.58	24.58	33.00	PASS
BAND2	15MHz	64QAM	19125	75RB#0	20.73	24.73	33.00	PASS
BAND2	20MHz	QPSK	18700	1RB#0	23.80	27.80	33.00	PASS
BAND2	20MHz	QPSK	18700	1RB#49	23.61	27.61	33.00	PASS
BAND2	20MHz	QPSK	18700	1RB#99	23.82	27.82	33.00	PASS
BAND2	20MHz	QPSK	18700	50RB#0	22.66	26.66	33.00	PASS
BAND2	20MHz	QPSK	18700	50RB#25	22.61	26.61	33.00	PASS
BAND2	20MHz	QPSK	18700	50RB#50	22.64	26.64	33.00	PASS
BAND2	20MHz	QPSK	18700	100RB#0	22.66	26.66	33.00	PASS
BAND2	20MHz	QPSK	18900	1RB#0	23.80	27.80	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 11 of 100

BAND2	20MHz	QPSK	18900	1RB#49	23.74	27.74	33.00	PASS
BAND2	20MHz	QPSK	18900	1RB#99	23.66	27.66	33.00	PASS
BAND2	20MHz	QPSK	18900	50RB#0	22.70	26.70	33.00	PASS
BAND2	20MHz	QPSK	18900	50RB#25	22.63	26.63	33.00	PASS
BAND2	20MHz	QPSK	18900	50RB#50	22.69	26.69	33.00	PASS
BAND2	20MHz	QPSK	18900	100RB#0	22.68	26.68	33.00	PASS
BAND2	20MHz	QPSK	19100	1RB#0	23.58	27.58	33.00	PASS
BAND2	20MHz	QPSK	19100	1RB#49	23.58	27.58	33.00	PASS
BAND2	20MHz	QPSK	19100	1RB#99	23.66	27.66	33.00	PASS
BAND2	20MHz	QPSK	19100	50RB#0	22.58	26.58	33.00	PASS
BAND2	20MHz	QPSK	19100	50RB#25	22.62	26.62	33.00	PASS
BAND2	20MHz	QPSK	19100	50RB#50	22.69	26.69	33.00	PASS
BAND2	20MHz	QPSK	19100	100RB#0	22.73	26.73	33.00	PASS
BAND2	20MHz	16QAM	18700	1RB#0	22.77	26.77	33.00	PASS
BAND2	20MHz	16QAM	18700	1RB#49	22.54	26.54	33.00	PASS
BAND2	20MHz	16QAM	18700	1RB#99	22.91	26.91	33.00	PASS
BAND2	20MHz	16QAM	18700	50RB#0	21.78	25.78	33.00	PASS
BAND2	20MHz	16QAM	18700	50RB#25	21.73	25.73	33.00	PASS
BAND2	20MHz	16QAM	18700	50RB#50	21.47	25.47	33.00	PASS
BAND2	20MHz	16QAM	18700	100RB#0	21.81	25.81	33.00	PASS
BAND2	20MHz	16QAM	18900	1RB#0	22.76	26.76	33.00	PASS
BAND2	20MHz	16QAM	18900	1RB#49	22.74	26.74	33.00	PASS
BAND2	20MHz	16QAM	18900	1RB#99	22.57	26.57	33.00	PASS
BAND2	20MHz	16QAM	18900	50RB#0	21.90	25.90	33.00	PASS
BAND2	20MHz	16QAM	18900	50RB#25	21.71	25.71	33.00	PASS
BAND2	20MHz	16QAM	18900	50RB#50	21.63	25.63	33.00	PASS
BAND2	20MHz	16QAM	18900	100RB#0	21.87	25.87	33.00	PASS
BAND2	20MHz	16QAM	19100	1RB#0	22.54	26.54	33.00	PASS
BAND2	20MHz	16QAM	19100	1RB#49	22.65	26.65	33.00	PASS
BAND2	20MHz	16QAM	19100	1RB#99	22.83	26.83	33.00	PASS
BAND2	20MHz	16QAM	19100	50RB#0	21.76	25.76	33.00	PASS
BAND2	20MHz	16QAM	19100	50RB#25	21.48	25.48	33.00	PASS
BAND2	20MHz	16QAM	19100	50RB#50	21.73	25.73	33.00	PASS
BAND2	20MHz	16QAM	19100	100RB#0	21.79	25.79	33.00	PASS
BAND2	20MHz	64QAM	18700	1RB#0	21.86	25.86	33.00	PASS
BAND2	20MHz	64QAM	18700	1RB#49	21.71	25.71	33.00	PASS
BAND2	20MHz	64QAM	18700	1RB#99	21.85	25.85	33.00	PASS
BAND2	20MHz	64QAM	18700	50RB#0	20.80	24.80	33.00	PASS
BAND2	20MHz	64QAM	18700	50RB#25	20.76	24.76	33.00	PASS
BAND2	20MHz	64QAM	18700	50RB#50	20.65	24.65	33.00	PASS
BAND2	20MHz	64QAM	18700	100RB#0	20.79	24.79	33.00	PASS

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.



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

Report No.: SZEM180500437001

Page: 12 of 100

BAND2	20MHz	64QAM	18900	1RB#0	21.90	25.90	33.00	PASS
BAND2	20MHz	64QAM	18900	1RB#49	21.81	25.81	33.00	PASS
BAND2	20MHz	64QAM	18900	1RB#99	21.62	25.62	33.00	PASS
BAND2	20MHz	64QAM	18900	50RB#0	20.85	24.85	33.00	PASS
BAND2	20MHz	64QAM	18900	50RB#25	20.73	24.73	33.00	PASS
BAND2	20MHz	64QAM	18900	50RB#50	20.63	24.63	33.00	PASS
BAND2	20MHz	64QAM	18900	100RB#0	20.87	24.87	33.00	PASS
BAND2	20MHz	64QAM	19100	1RB#0	21.59	25.59	33.00	PASS
BAND2	20MHz	64QAM	19100	1RB#49	21.81	25.81	33.00	PASS
BAND2	20MHz	64QAM	19100	1RB#99	21.94	25.94	33.00	PASS
BAND2	20MHz	64QAM	19100	50RB#0	20.81	24.81	33.00	PASS
BAND2	20MHz	64QAM	19100	50RB#25	20.39	24.39	33.00	PASS
BAND2	20MHz	64QAM	19100	50RB#50	20.70	24.70	33.00	PASS
BAND2	20MHz	64QAM	19100	100RB#0	20.95	24.95	33.00	PASS

Note:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

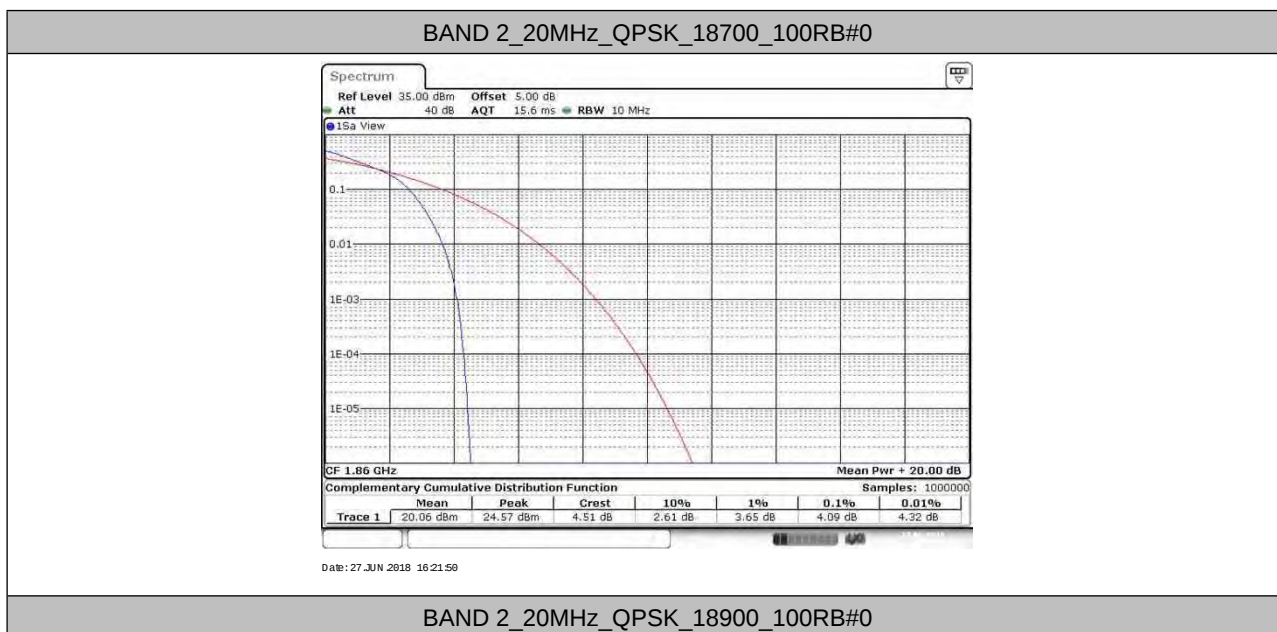


2. Peak-to-Average Ratio(CCDF)

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 2	20MHz	QPSK	18700	100RB#0	4.09	13	PASS
			18900	100RB#0	4.00	13	PASS
			19100	100RB#0	3.91	13	PASS
		16QAM	18700	100RB#0	5.57	13	PASS
			18900	100RB#0	5.36	13	PASS
			19100	100RB#0	5.36	13	PASS
		64QAM	18700	100RB#0	4.55	13	PASS
			18900	100RB#0	5.68	13	PASS
			19100	100RB#0	5.74	13	PASS

1.2. Test Plots





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

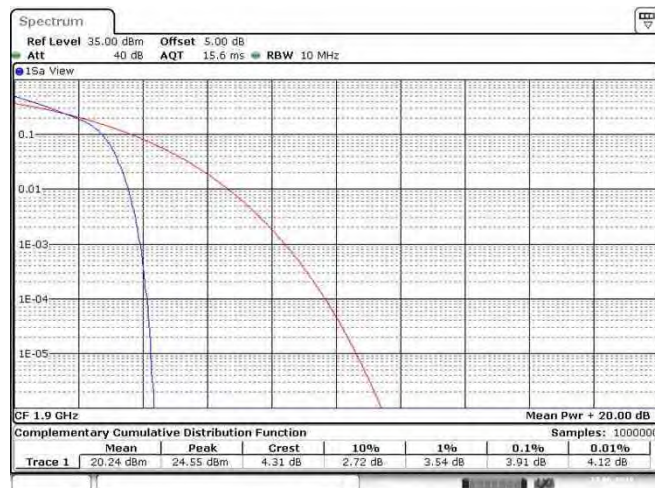
Report No.: SZEM180500437001

Page: 14 of 100



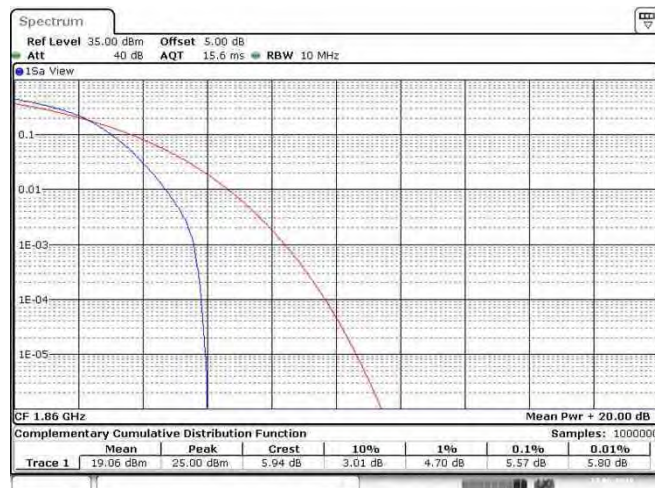
Date: 27 JUN 2018 16:22:17

BAND 2_20MHz_QPSK_19100_100RB#0



Date: 27 JUN 2018 16:22:42

BAND 2_20MHz_16QAM_18700_100RB#0



Date: 27 JUN 2018 16:21:58

BAND 2_20MHz_16QAM_18900_100RB#0

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.



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

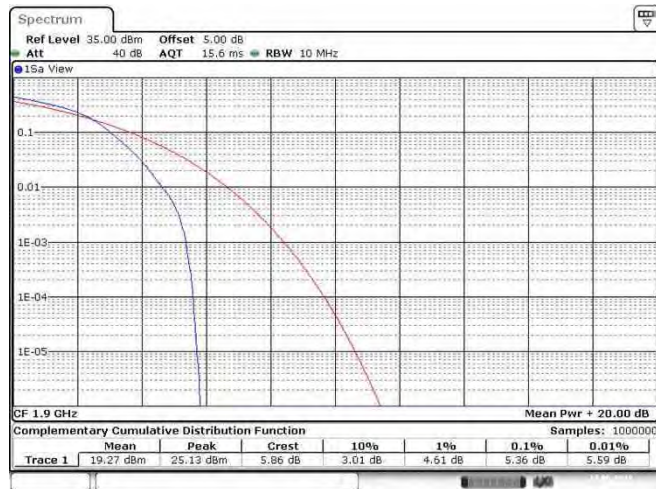
Report No.: SZEM180500437001

Page: 15 of 100



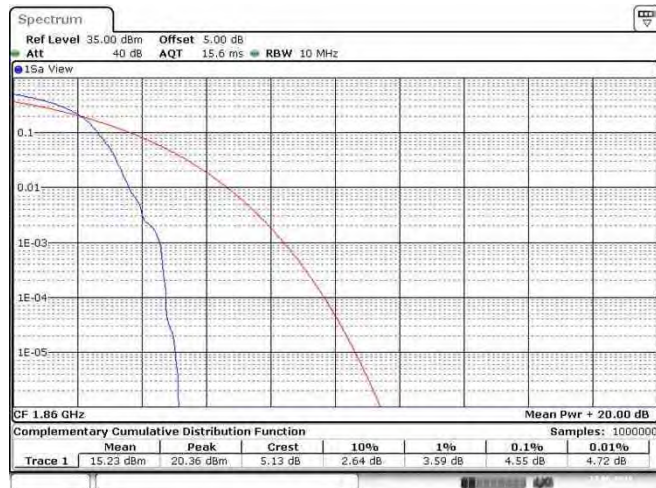
Date: 27 JUN 2018 16:22:25

BAND 2_20MHz_16QAM_19100_100RB#0



Date: 27 JUN 2018 16:22:51

BAND 2_20MHz_64QAM_18700_100RB#0



Date: 27 JUN 2018 16:22:97

BAND 2_20MHz_64QAM_18900_100RB#0

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.



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

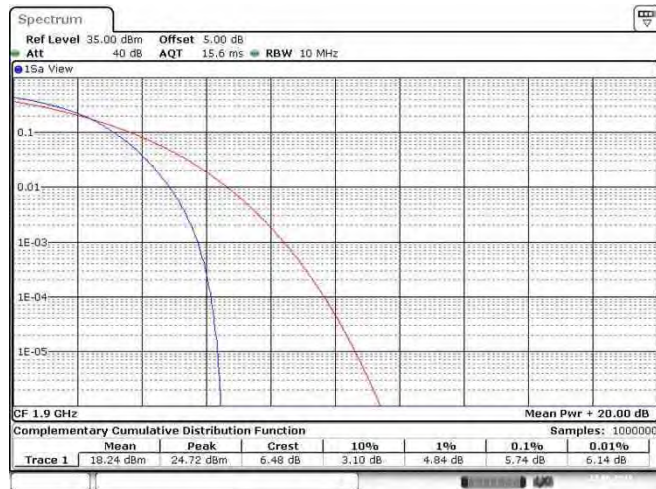
Report No.: SZEM180500437001

Page: 16 of 100



Date: 27 JUN 2018 16:22:34

BAND 2_20MHz_64QAM_19100_100RB#0



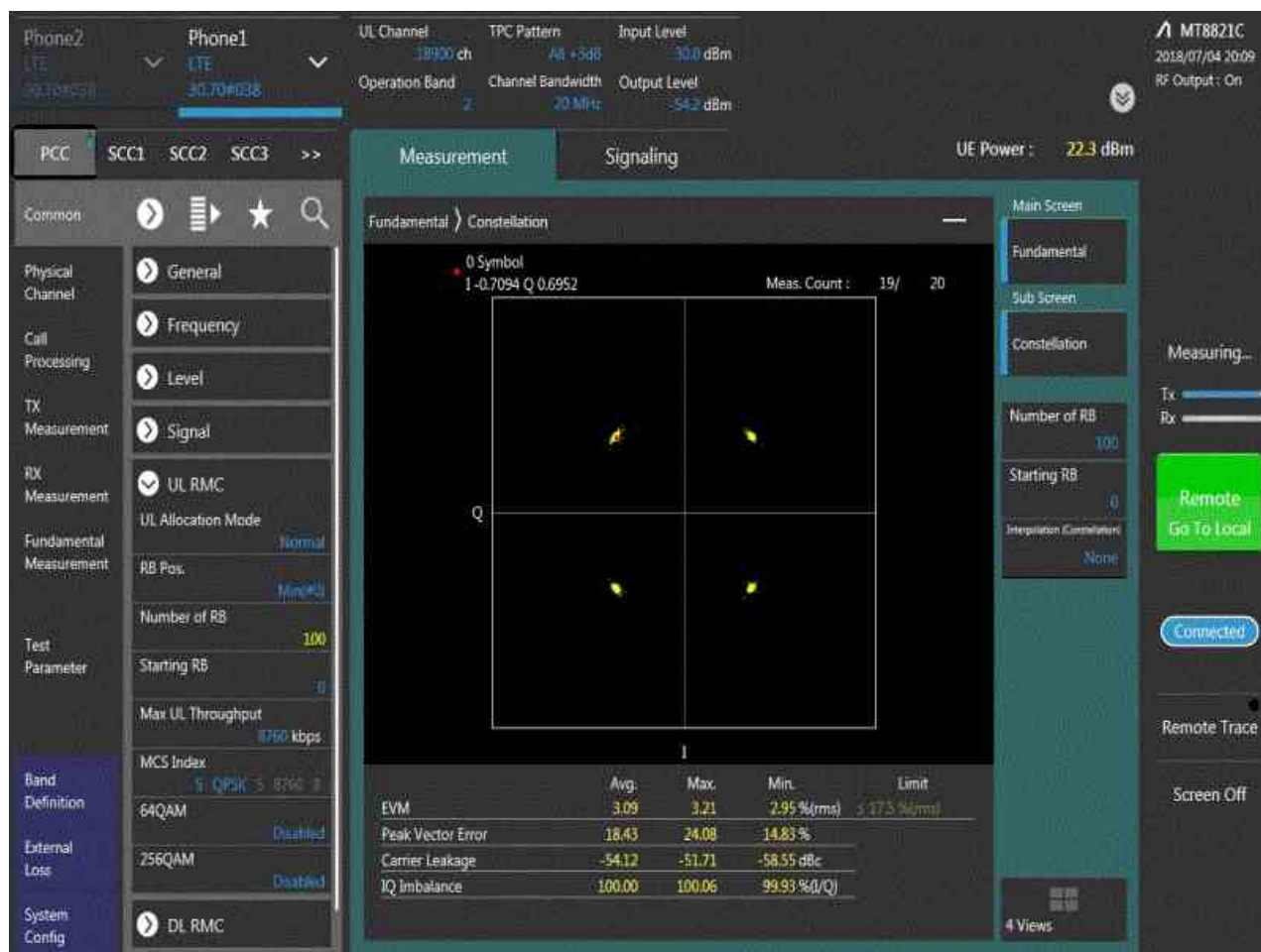
Date: 27 JUN 2018 16:22:59

3. Modulation Characteristics

2.1. Test BAND = LTE BAND2

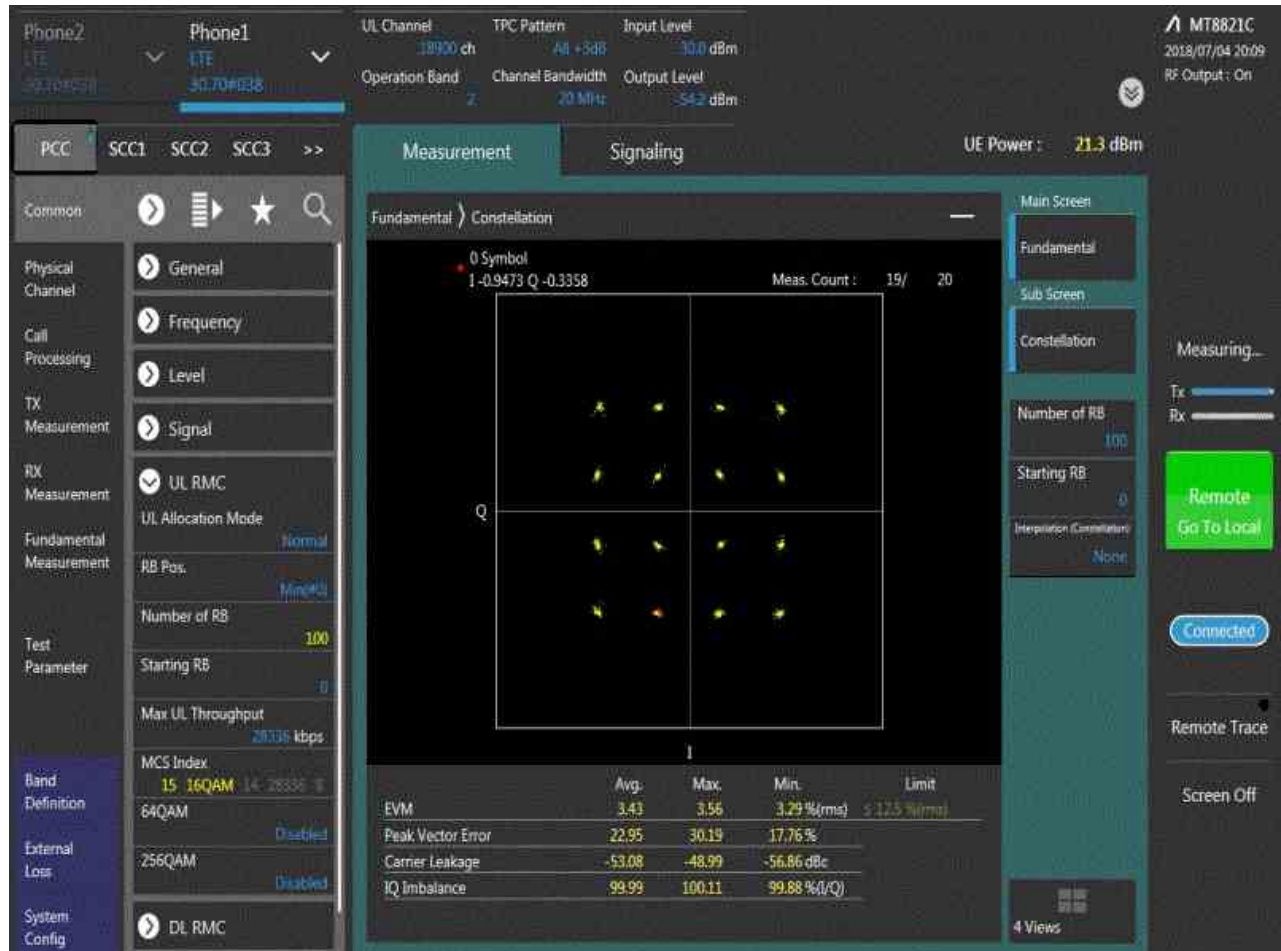
2.1.1. Test Mode = LTE /TM1 20MHz

2.1.1.1. Test Channel = MCH



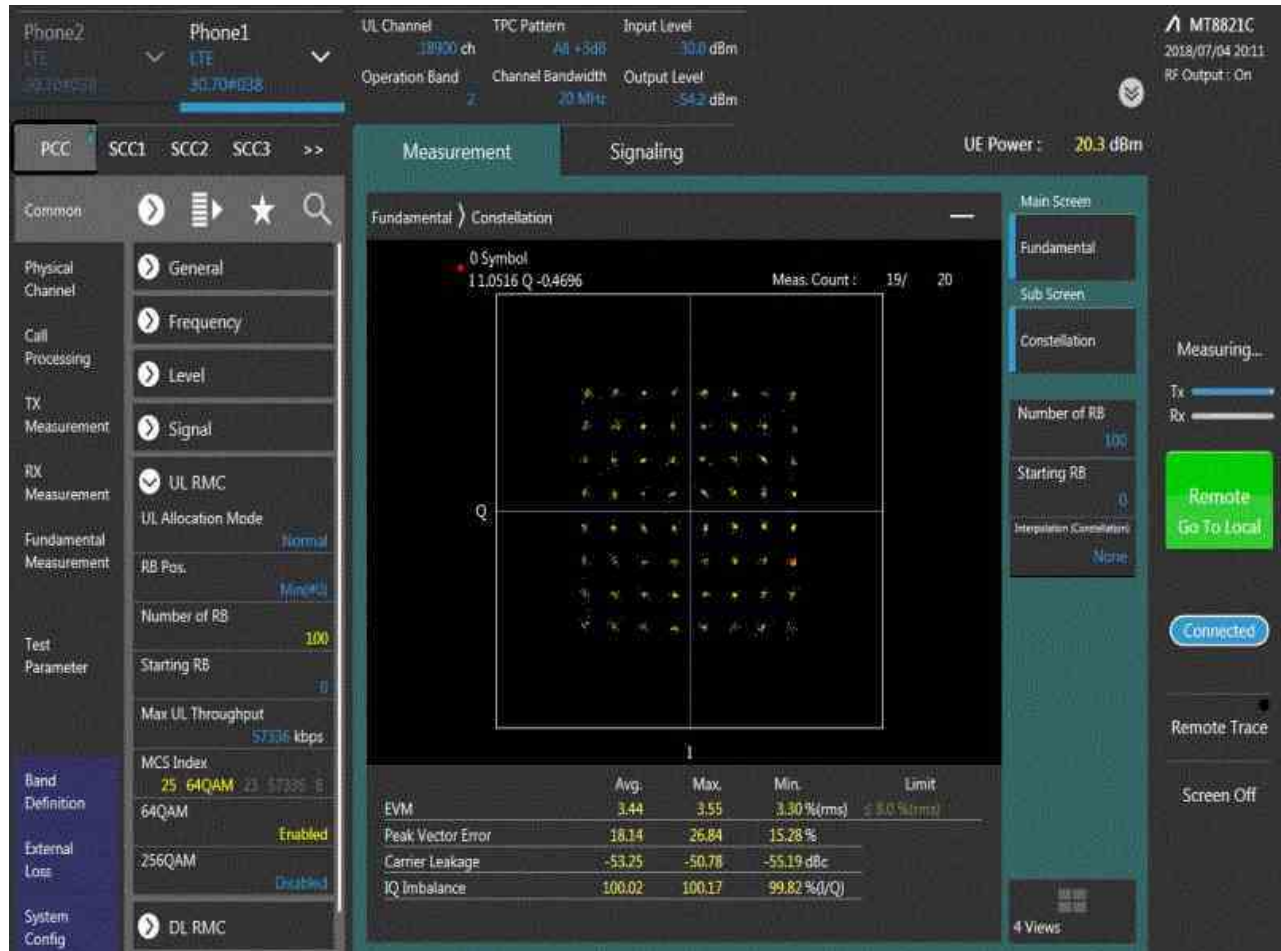
2.1.2. Test Mode = LTE /TM2 20MHz

2.1.2.1. Test Channel = MCH



2.1.3. Test Mode = LTE /TM3 20MHz

2.1.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

3.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND2	1.4MHz	QPSK	18607	6RB#0	1.103	1.254	PASS
			18900	6RB#0	1.103	1.260	PASS
			19193	6RB#0	1.103	1.254	PASS
		64QAM	18607	6RB#0	1.103	1.272	PASS
			18900	6RB#0	1.106	1.257	PASS
			19193	6RB#0	1.103	1.263	PASS
		16QAM	18607	6RB#0	1.106	1.245	PASS
			18900	6RB#0	1.106	1.257	PASS
			19193	6RB#0	1.109	1.257	PASS
	3MHz	QPSK	18615	15RB#0	2.709	3.000	PASS
			18900	15RB#0	2.709	3.000	PASS
			19185	15RB#0	2.721	3.000	PASS
		64QAM	18615	15RB#0	2.709	2.994	PASS
			18900	15RB#0	2.703	3.006	PASS
			19185	15RB#0	2.703	2.994	PASS
		16QAM	18615	15RB#0	2.703	2.988	PASS
			18900	15RB#0	2.709	2.988	PASS
			19185	15RB#0	2.709	2.994	PASS
	5MHz	QPSK	18625	25RB#0	4.476	4.930	PASS
			18900	25RB#0	4.476	4.910	PASS
			19175	25RB#0	4.476	4.900	PASS
		64QAM	18625	25RB#0	4.476	4.900	PASS
			18900	25RB#0	4.476	4.900	PASS
			19175	25RB#0	4.486	4.920	PASS
		16QAM	18625	25RB#0	4.476	4.910	PASS
			18900	25RB#0	4.486	4.890	PASS
			19175	25RB#0	4.486	4.920	PASS
	10MHz	QPSK	18650	50RB#0	8.971	10.400	PASS
			18900	50RB#0	8.971	10.340	PASS
			19150	50RB#0	8.951	10.280	PASS
		64QAM	18650	50RB#0	8.991	10.380	PASS
			18900	50RB#0	8.971	10.400	PASS
			19150	50RB#0	8.971	10.400	PASS



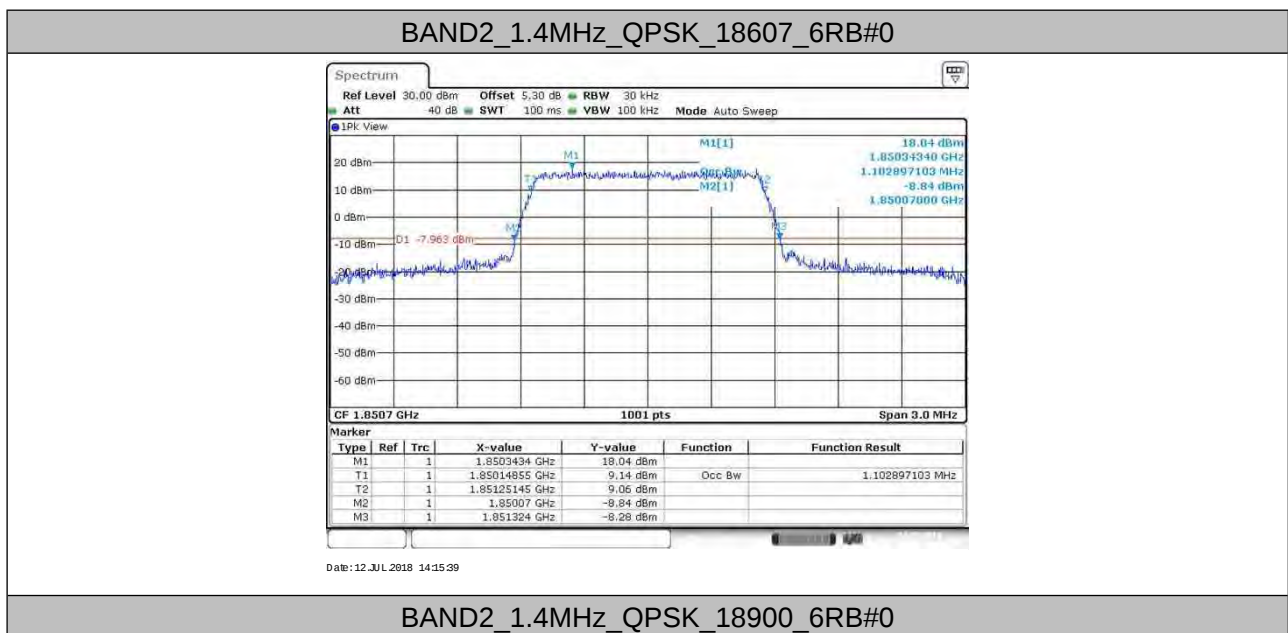
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM180500437001

Page: 21 of 100

		16QAM	18650	50RB#0	8.971	10.300	PASS
			18900	50RB#0	8.971	10.380	PASS
			19150	50RB#0	8.971	10.340	PASS
		QPSK	18675	75RB#0	13.546	15.900	PASS
			18900	75RB#0	13.52	15.810	PASS
			19125	75RB#0	13.516	15.870	PASS
		64QAM	18675	75RB#0	13.546	15.810	PASS
			18900	75RB#0	13.546	15.510	PASS
			19125	75RB#0	13.487	15.600	PASS
	15MHz	16QAM	18675	75RB#0	13.546	16.020	PASS
			18900	75RB#0	13.546	15.930	PASS
			19125	75RB#0	13.546	15.630	PASS
		QPSK	18700	100RB#0	17.982	20.080	PASS
			18900	100RB#0	17.942	20.120	PASS
			19100	100RB#0	17.902	20.000	PASS
		64QAM	18700	100RB#0	17.940	20.120	PASS
			18900	100RB#0	17.942	20.120	PASS
			19100	100RB#0	17.902	20.080	PASS
		16QAM	18700	100RB#0	17.942	20.040	PASS
			18900	100RB#0	17.942	20.080	PASS
			19100	100RB#0	17.942	19.920	PASS
	20MHz	16QAM	18650	50RB#0	8.971	10.300	PASS
			18900	50RB#0	8.971	10.380	PASS
			19150	50RB#0	8.971	10.340	PASS
		QPSK	18675	75RB#0	13.546	15.900	PASS
			18900	75RB#0	13.52	15.810	PASS
			19125	75RB#0	13.516	15.870	PASS
		64QAM	18675	75RB#0	13.546	15.810	PASS
			18900	75RB#0	13.546	15.510	PASS
			19125	75RB#0	13.487	15.600	PASS

3.2. Test Plots

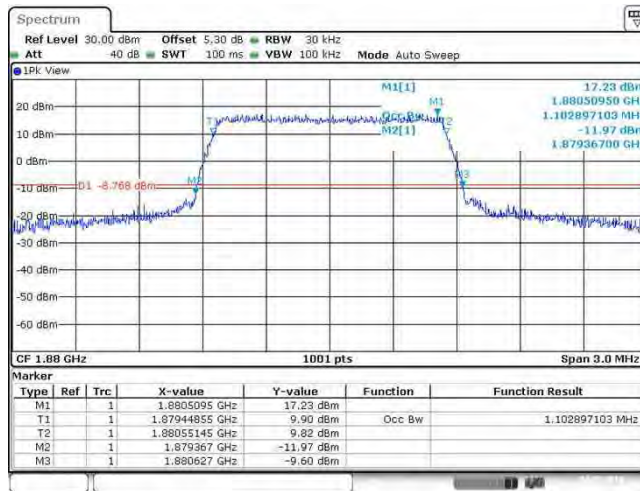




SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

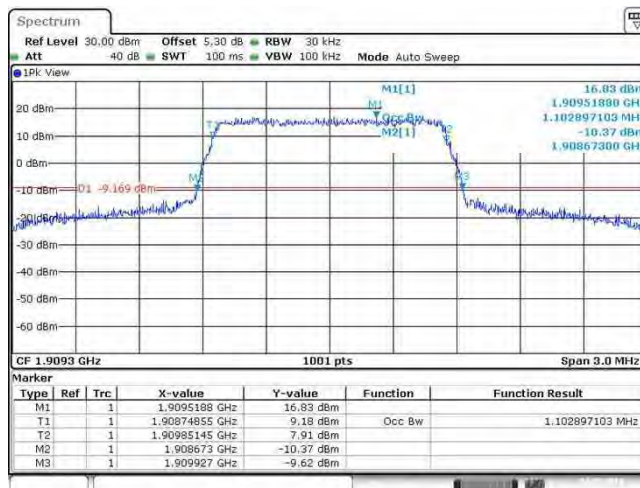
Report No.: SZEM180500437001

Page: 22 of 100



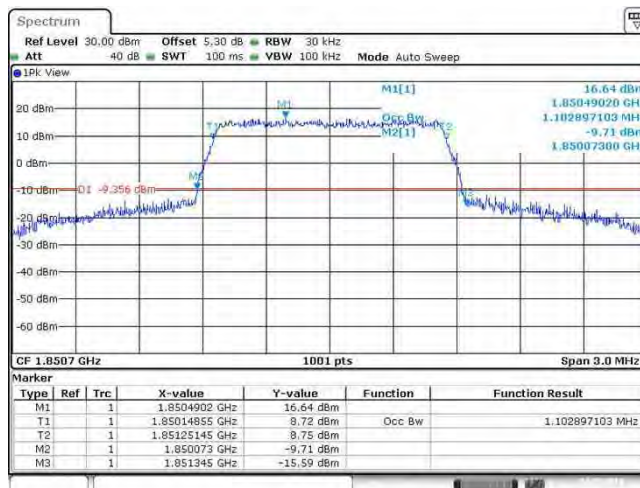
Date: 12 JUL 2018 14:16:17

BAND2_1.4MHz_QPSK_19193_6RB#0



Date: 12 JUL 2018 14:16:55

BAND2_1.4MHz_64QAM_18607_6RB#0



Date: 12 JUL 2018 14:16:04

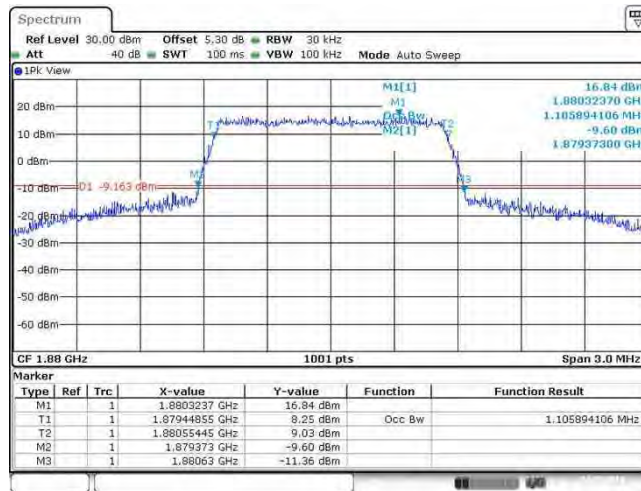
BAND2_1.4MHz_64QAM_18900_6RB#0



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

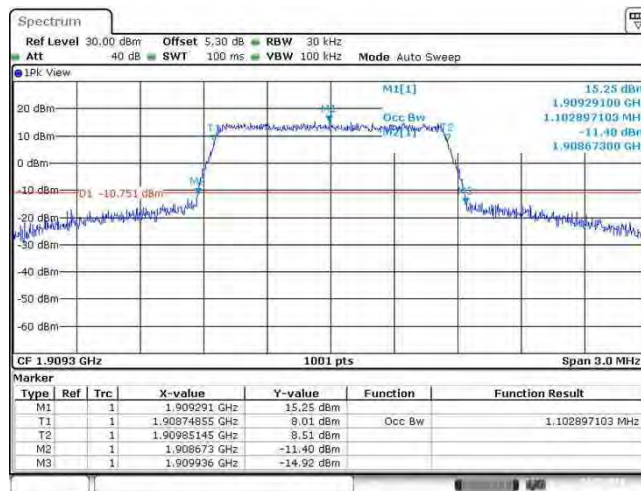
Report No.: SZEM180500437001

Page: 23 of 100



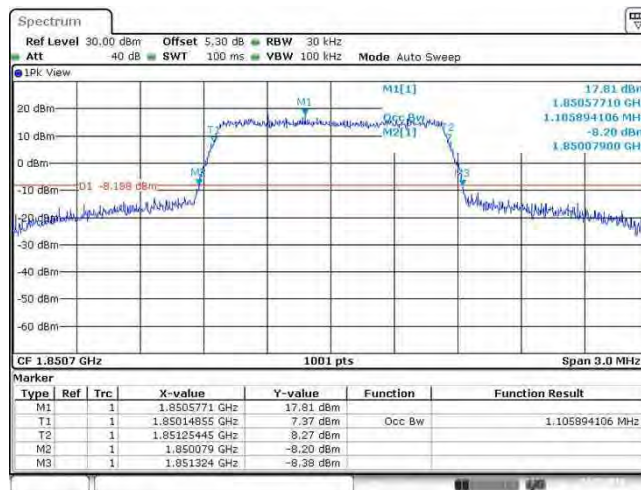
Date: 12 JUL 2018 14:16:42

BAND2_1.4MHz_64QAM_19193_6RB#0



Date: 12 JUL 2018 14:17:26

BAND2_1.4MHz_16QAM_18607_6RB#0



Date: 12 JUL 2018 14:15:51

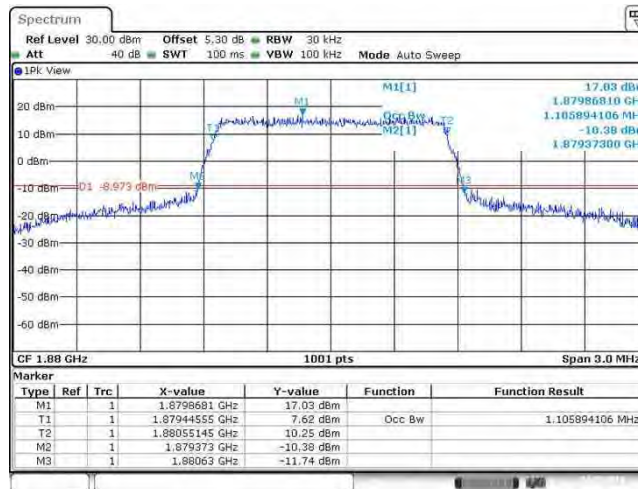
BAND2_1.4MHz_16QAM_18900_6RB#0



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

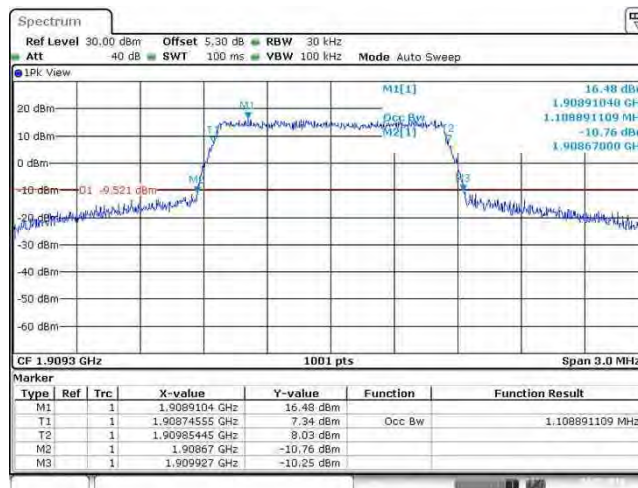
Report No.: SZEM180500437001

Page: 24 of 100



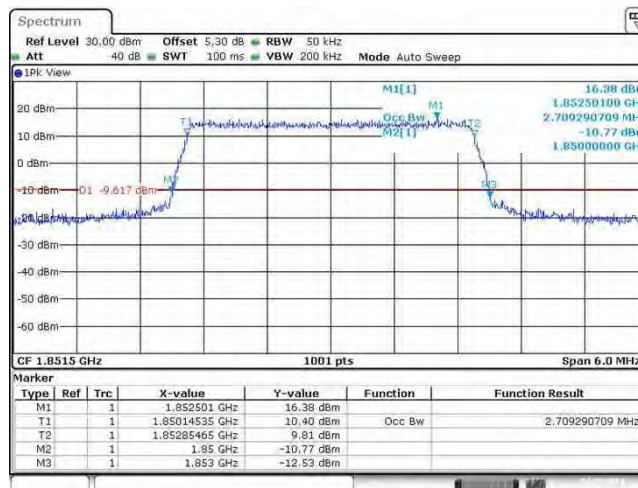
Date: 12 JUL 2018 14:16:29

BAND2_1.4MHz_16QAM_19193_6RB#0



Date: 12 JUL 2018 14:17:07

BAND2_3MHz_QPSK_18615_15RB#0



Date: 12 JUL 2018 14:17:38

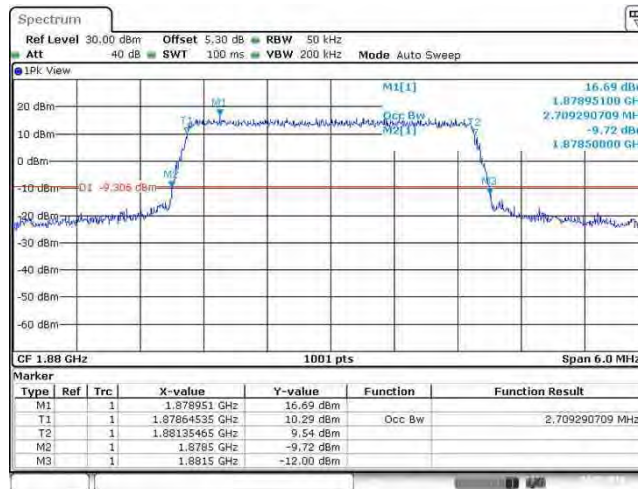
BAND2_3MHz_QPSK_18900_15RB#0



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

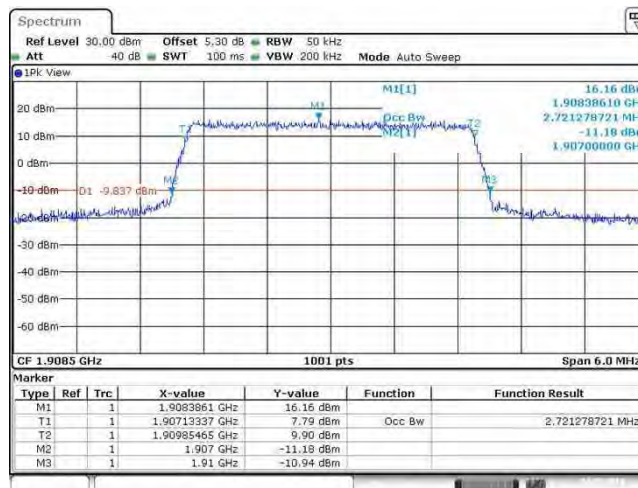
Report No.: SZEM180500437001

Page: 25 of 100



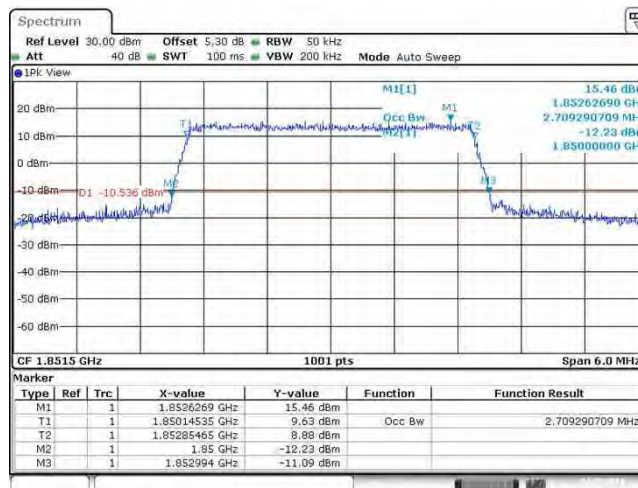
Date: 12 JUL 2018 14:18:16

BAND2_3MHz_QPSK_19185_15RB#0



Date: 12 JUL 2018 14:18:54

BAND2_3MHz_64QAM_18615_15RB#0



Date: 12 JUL 2018 14:18:83

BAND2_3MHz_64QAM_18900_15RB#0

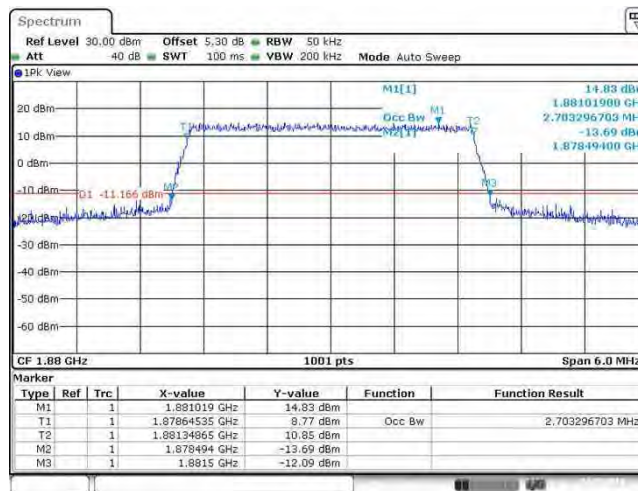
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>.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



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

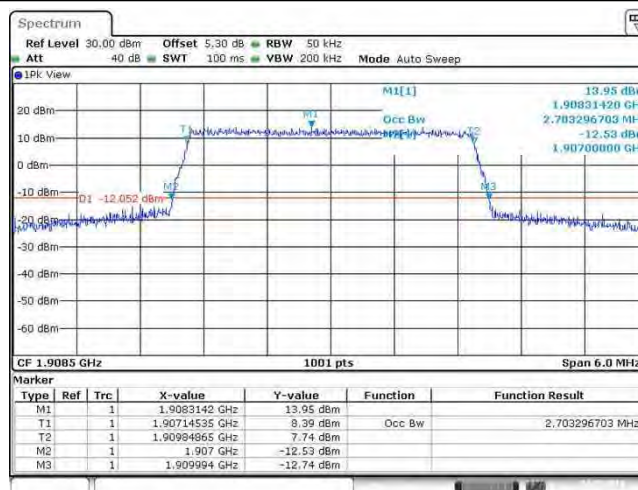
Report No.: SZEM180500437001

Page: 26 of 100



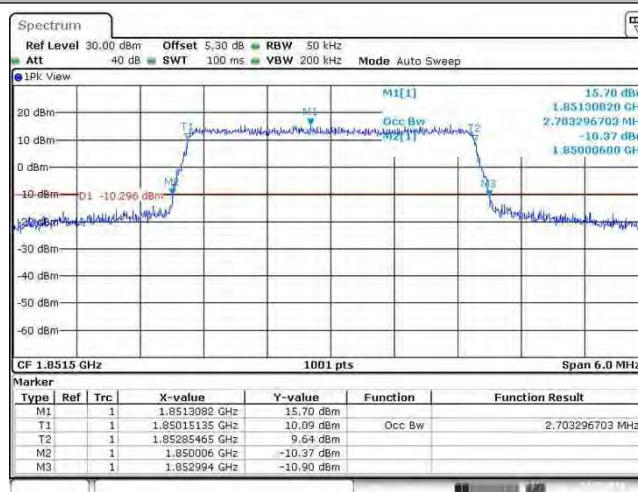
Date: 12 JUL 2018 14:18:41

BAND2_3MHz_64QAM_19185_15RB#0



Date: 12 JUL 2018 14:19:19

BAND2_3MHz_16QAM_18615_15RB#0



Date: 12 JUL 2018 14:17:59

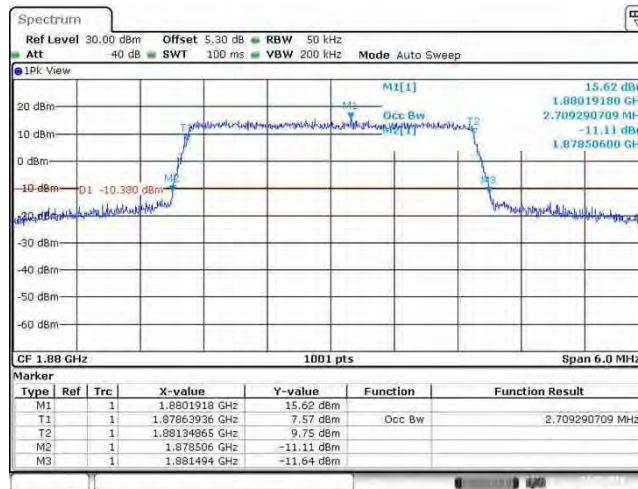
BAND2_3MHz_16QAM_18900_15RB#0



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

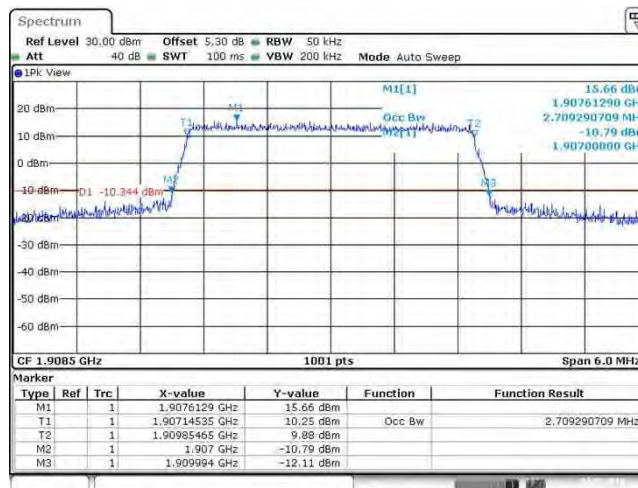
Report No.: SZEM180500437001

Page: 27 of 100



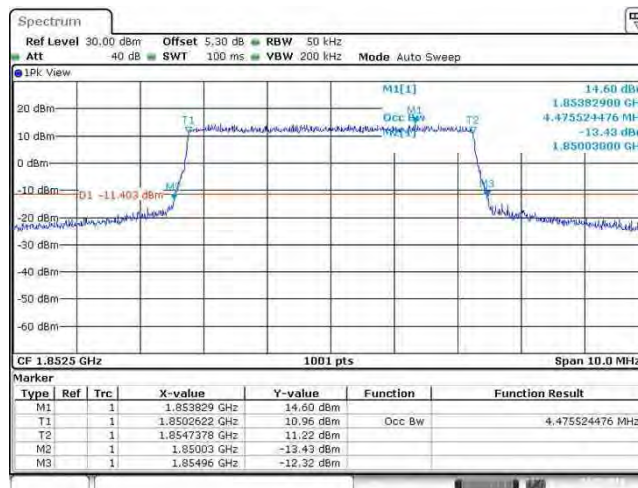
Date: 12 JUL 2018 14:18:28

BAND2_3MHz_16QAM_19185_15RB#0



Date: 12 JUL 2018 14:19:06

BAND2_5MHz_QPSK_18625_25RB#0



Date: 12 JUL 2018 14:19:44

BAND2_5MHz_QPSK_18900_25RB#0

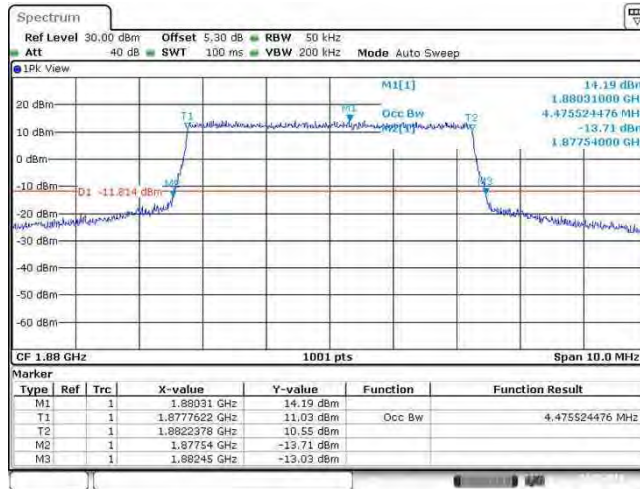
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>.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



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

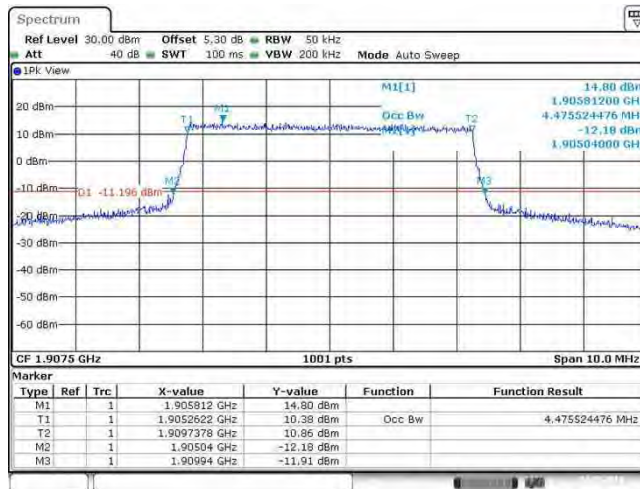
Report No.: SZEM180500437001

Page: 28 of 100



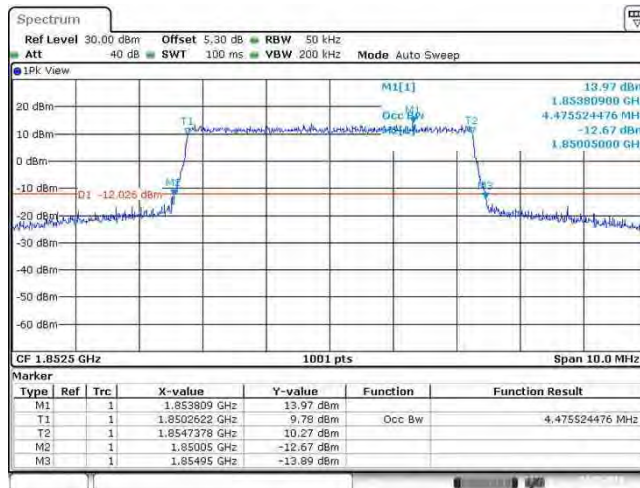
Date: 12 JUL 2018 14:29:43

BAND2_5MHz_QPSK_19175_25RB#0



Date: 12 JUL 2018 14:21:42

BAND2_5MHz_64QAM_18625_25RB#0



Date: 12 JUL 2018 14:29:23

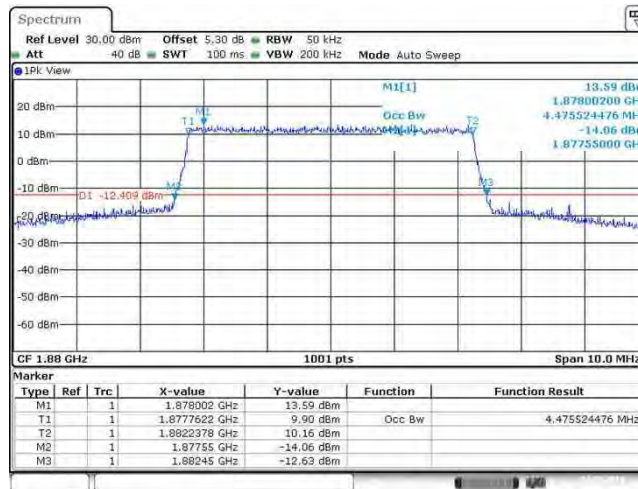
BAND2_5MHz_64QAM_18900_25RB#0



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

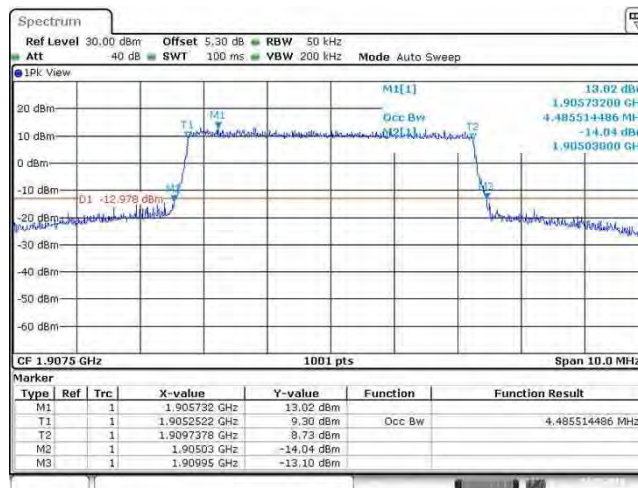
Report No.: SZEM180500437001

Page: 29 of 100



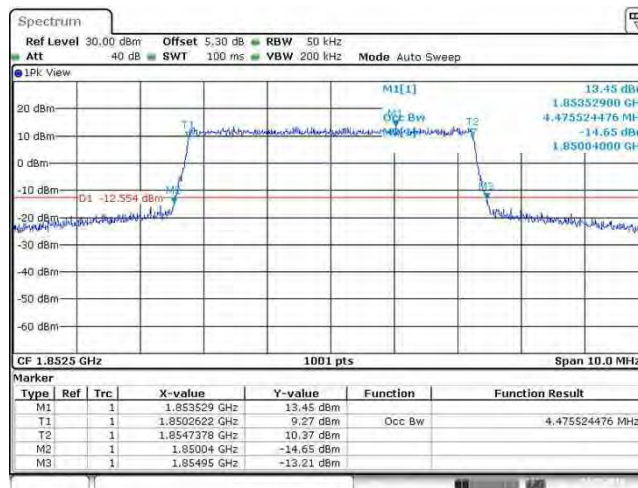
Date: 12 JUL 2018 14:21:22

BAND2_5MHz_64QAM_19175_25RB#0



Date: 12 JUL 2018 14:22:21

BAND2_5MHz_16QAM_18625_25RB#0



Date: 12 JUL 2018 14:29:03

BAND2_5MHz_16QAM_18900_25RB#0

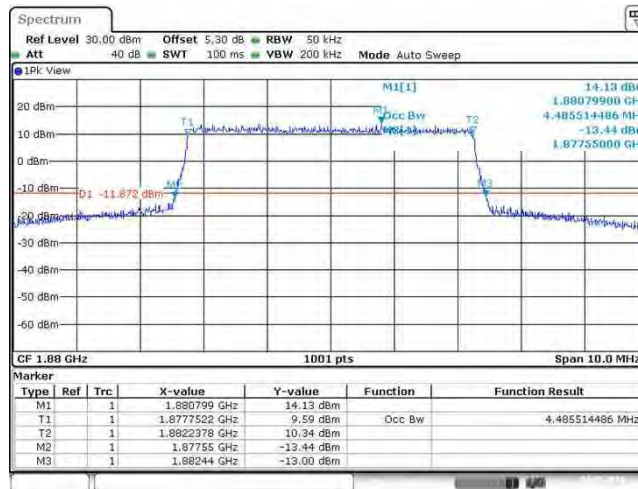
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

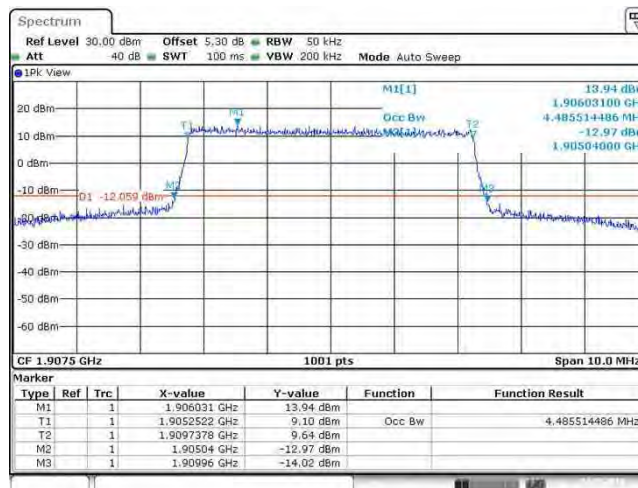
Report No.: SZEM180500437001

Page: 30 of 100



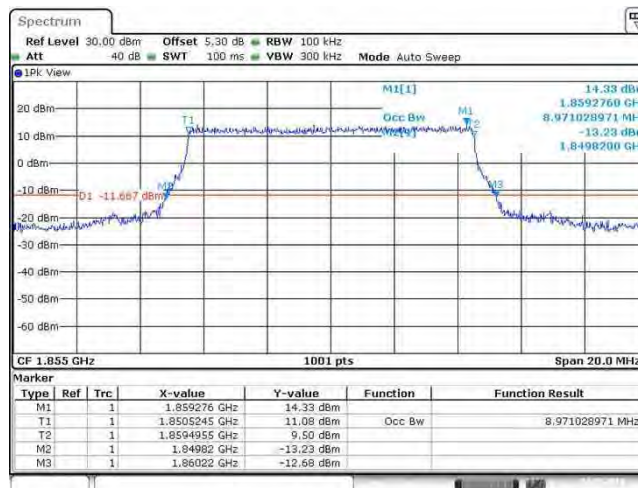
Date: 12 JUL 2018 14:21:02

BAND2_5MHz_16QAM_19175_25RB#0



Date: 12 JUL 2018 14:22:01

BAND2_10MHz_QPSK_18650_50RB#0



Date: 12 JUL 2018 14:22:39

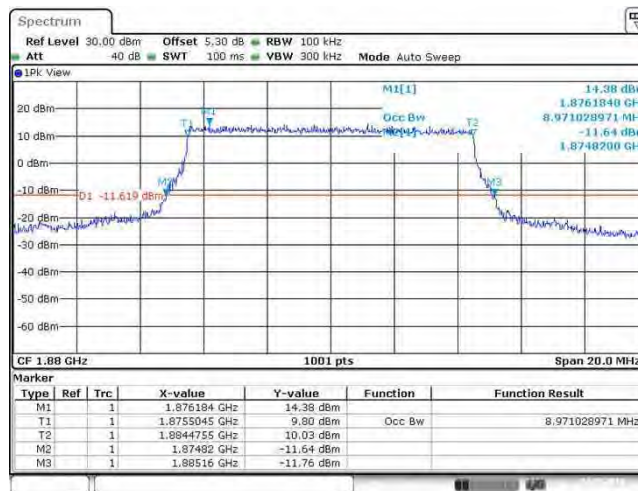
BAND2_10MHz_QPSK_18900_50RB#0



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

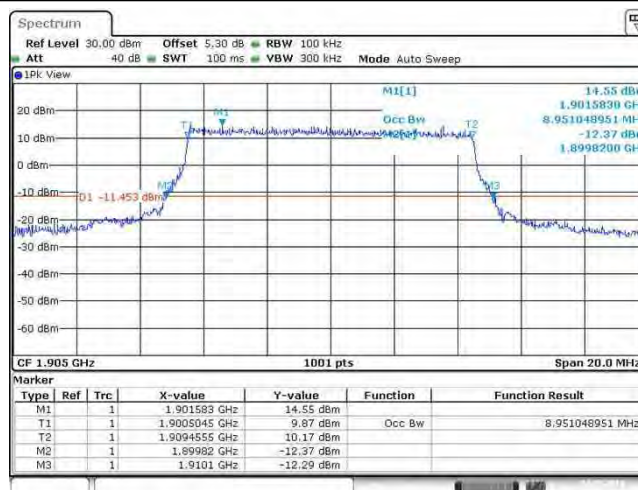
Report No.: SZEM180500437001

Page: 31 of 100



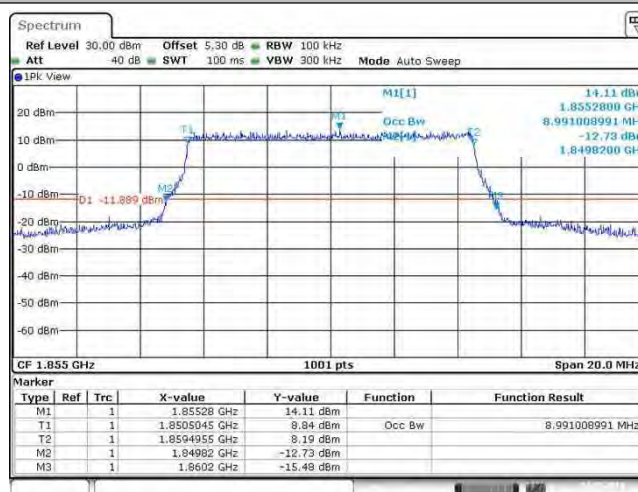
Date: 12 JUL 2018 14:23:17

BAND2_10MHz_QPSK_19150_50RB#0



Date: 12 JUL 2018 14:23:54

BAND2_10MHz_64QAM_18650_50RB#0



Date: 12 JUL 2018 14:23:04

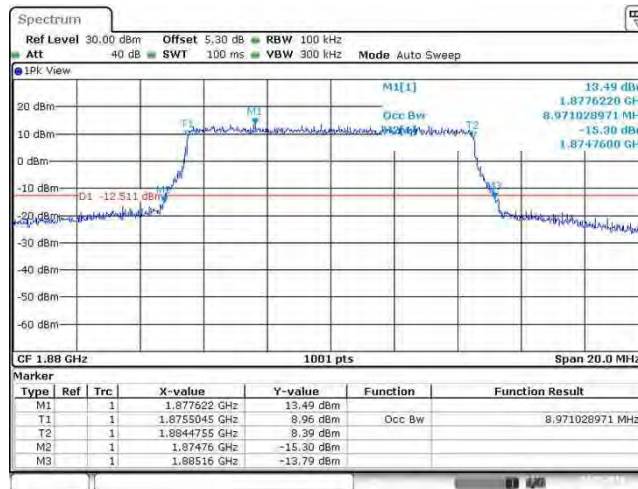
BAND2_10MHz_64QAM_18900_50RB#0



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

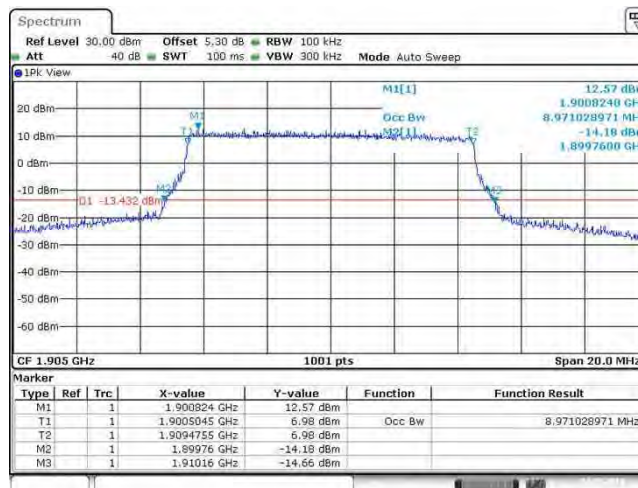
Report No.: SZEM180500437001

Page: 32 of 100



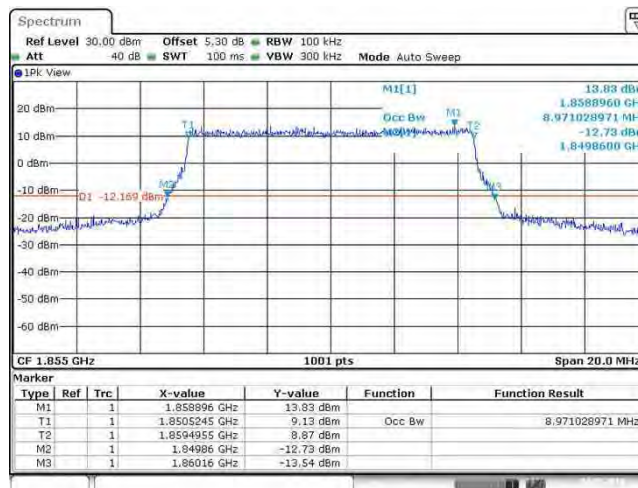
Date: 12 JUL 2018 14:23:42

BAND2_10MHz_64QAM_19150_50RB#0



Date: 12 JUL 2018 14:24:26

BAND2_10MHz_16QAM_18650_50RB#0



Date: 12 JUL 2018 14:22:51

BAND2_10MHz_16QAM_18900_50RB#0

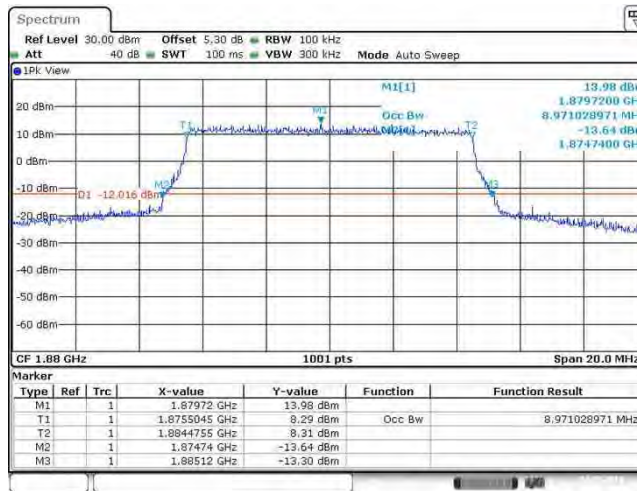
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

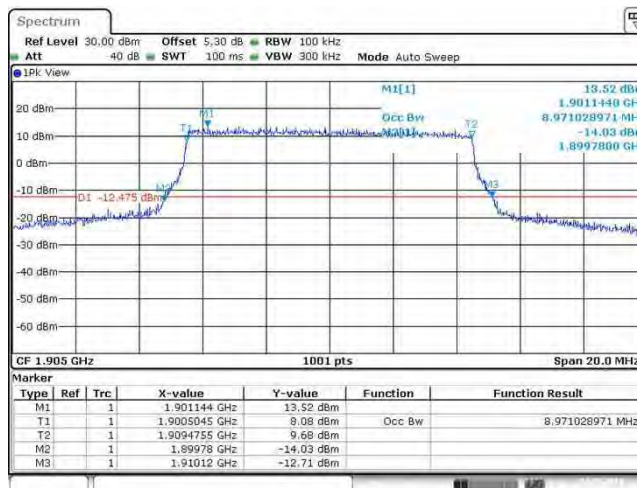
Report No.: SZEM180500437001

Page: 33 of 100



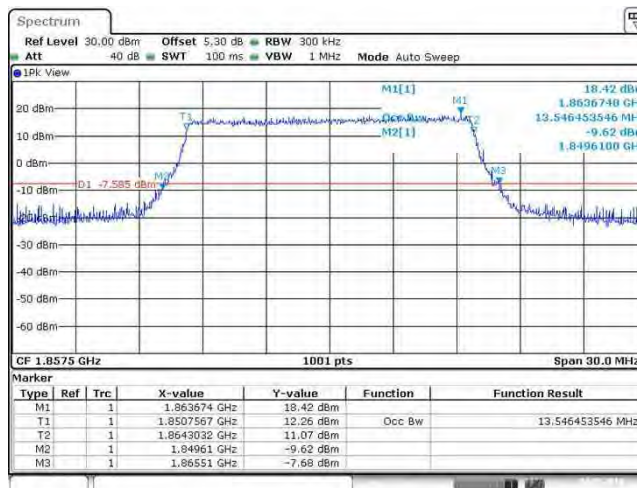
Date: 12 JUL 2018 14:23:29

BAND2_10MHz_16QAM_19150_50RB#0



Date: 12 JUL 2018 14:24:87

BAND2_15MHz_QPSK_18675_75RB#0



Date: 12 JUL 2018 14:24:47

BAND2_15MHz_QPSK_18900_75RB#0

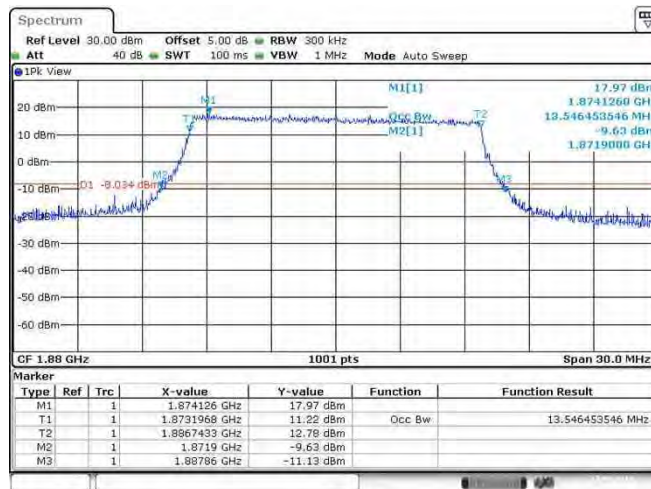
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>.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



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

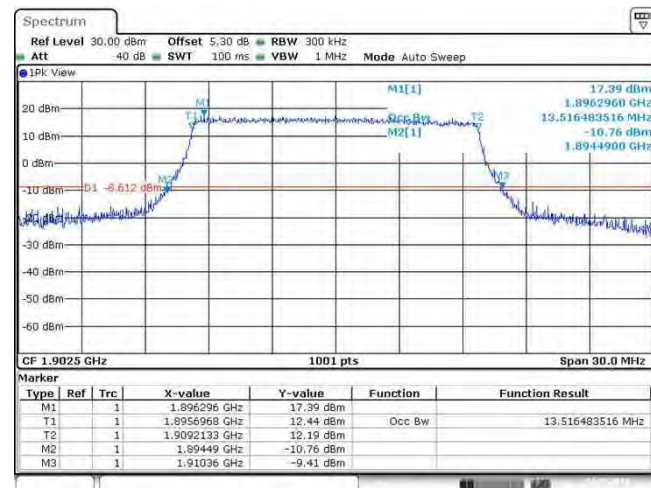
Report No.: SZEM180500437001

Page: 34 of 100



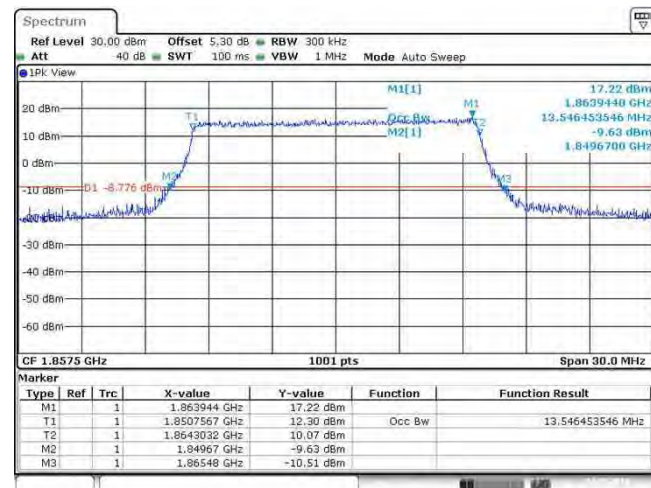
Date: 27 JUN 2018 15:42:45

BAND2_15MHz_QPSK_19125_75RB#0



Date: 12 JUL 2018 14:27:19

BAND2_15MHz_64QAM_18675_75RB#0



Date: 12 JUL 2018 14:25:12

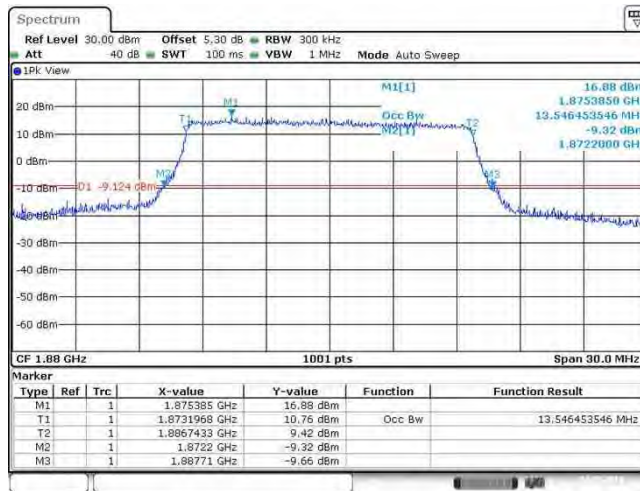
BAND2_15MHz_64QAM_18900_75RB#0



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

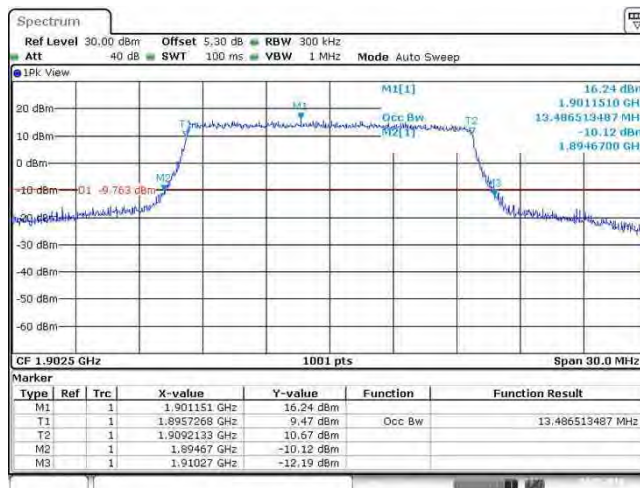
Report No.: SZEM180500437001

Page: 35 of 100



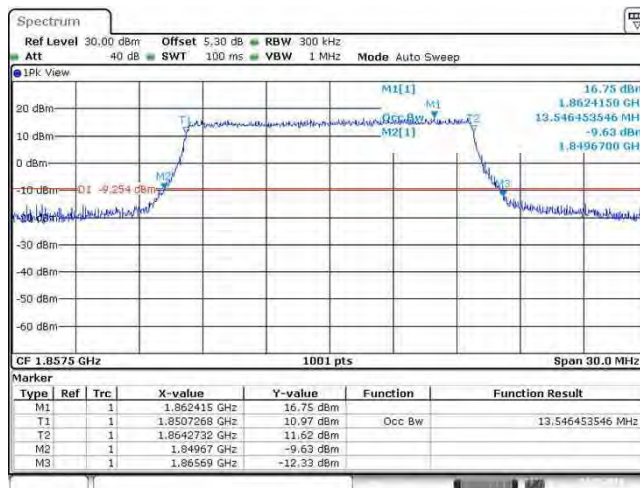
Date: 12 JUL 2018 14:27:06

BAND2_15MHz_64QAM_19125_75RB#0



Date: 12 JUL 2018 14:27:44

BAND2_15MHz_16QAM_18675_75RB#0



Date: 12 JUL 2018 14:25:00

BAND2_15MHz_16QAM_18900_75RB#0

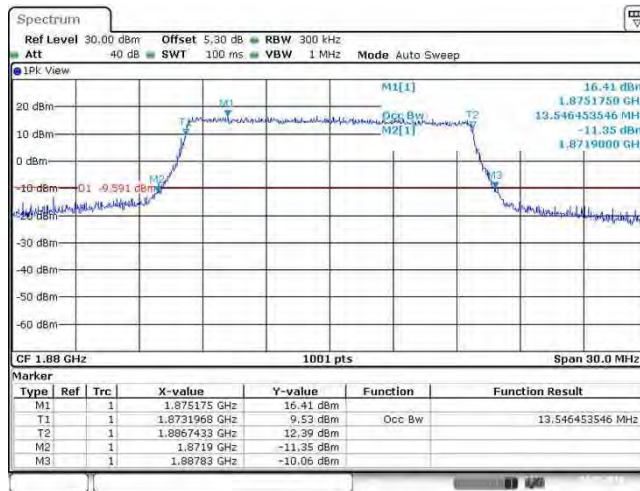
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

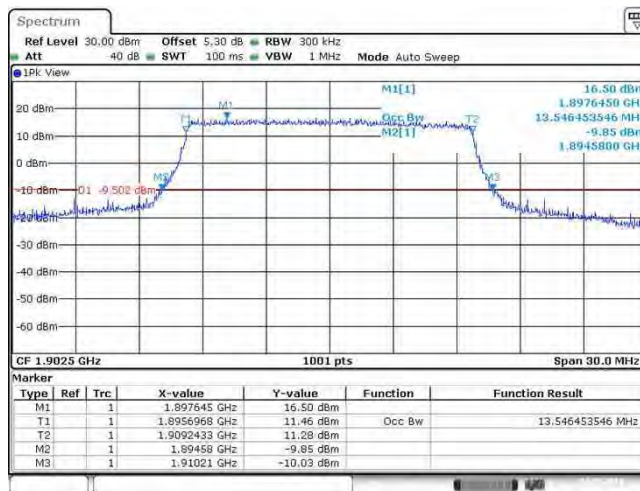
Report No.: SZEM180500437001

Page: 36 of 100



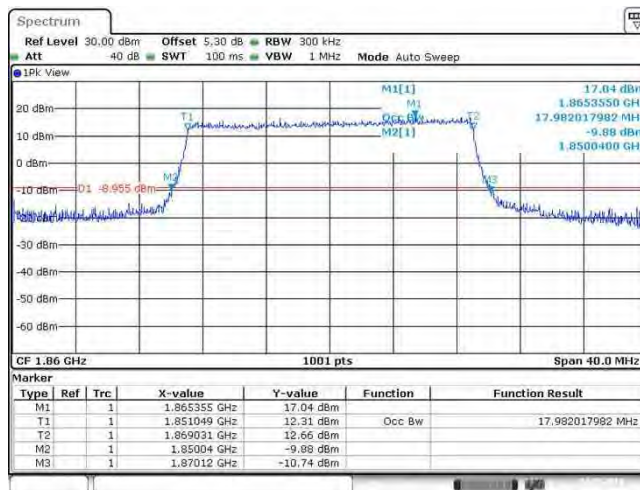
Date: 12 JUL 2018 14:26:53

BAND2_15MHz_16QAM_19125_75RB#0



Date: 12 JUL 2018 14:27:32

BAND2_20MHz_QPSK_18700_100RB#0



Date: 12 JUL 2018 14:28:12

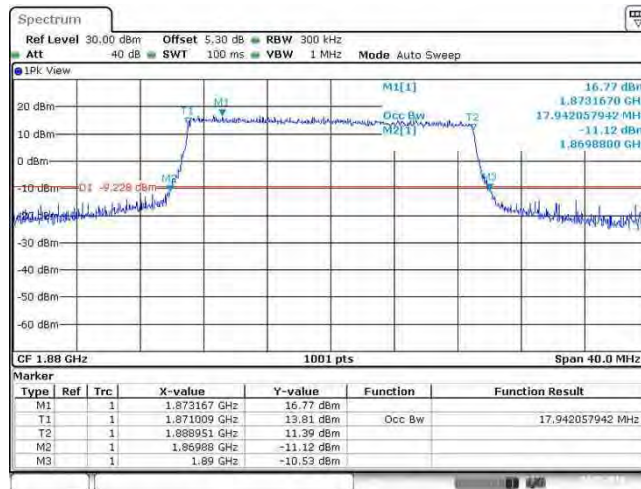
BAND2_20MHz_QPSK_18900_100RB#0



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

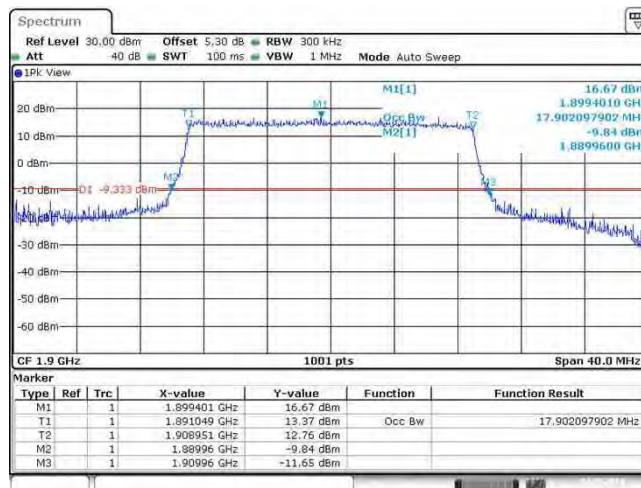
Report No.: SZEM180500437001

Page: 37 of 100



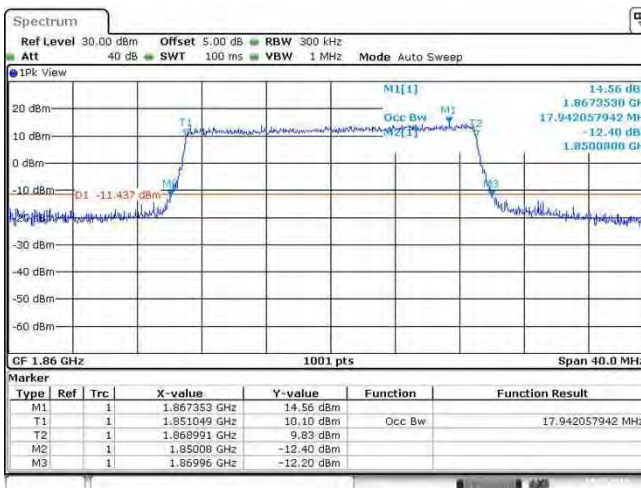
Date: 12 JUL 2018 14:29:47

BAND2_20MHz_QPSK_19100_100RB#0



Date: 12 JUL 2018 14:30:38

BAND2_20MHz_64QAM_18700_100RB#0



Date: 19 JUL 2018 15:25:27

BAND2_20MHz_64QAM_18900_100RB#0

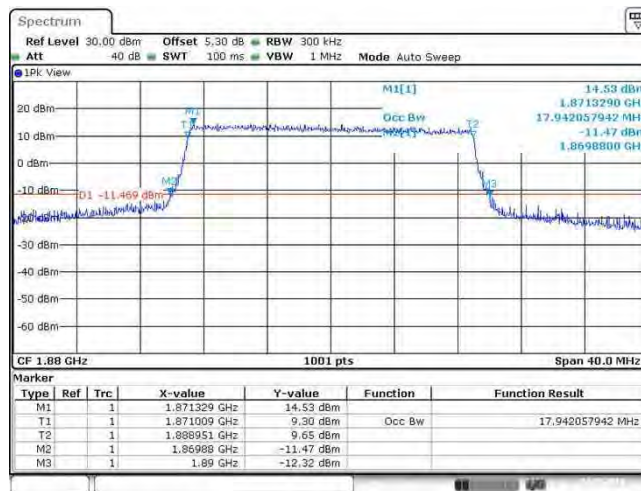
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>.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



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

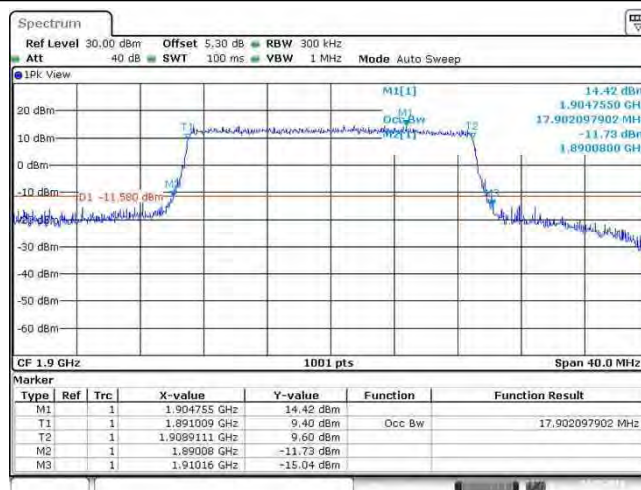
Report No.: SZEM180500437001

Page: 38 of 100



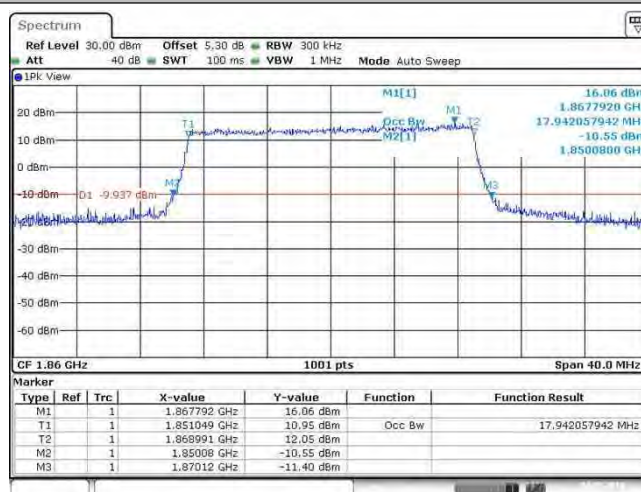
Date: 12 JUL 2018 14:38:13

BAND2_20MHz_64QAM_19100_100RB#0



Date: 12 JUL 2018 14:38:56

BAND2_20MHz_16QAM_18700_100RB#0



Date: 12 JUL 2018 14:28:25

BAND2_20MHz_16QAM_18900_100RB#0

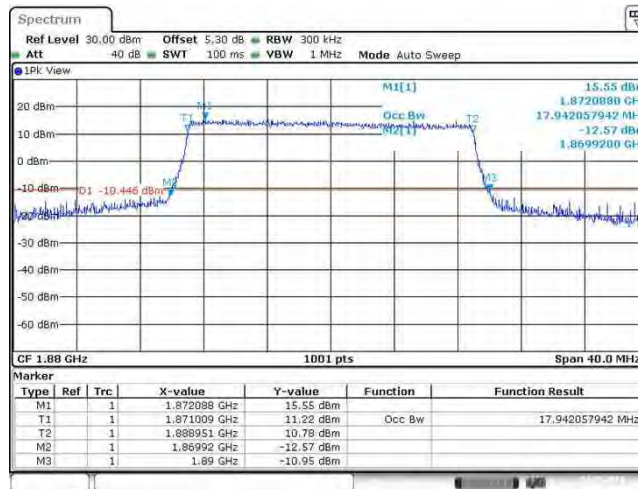
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



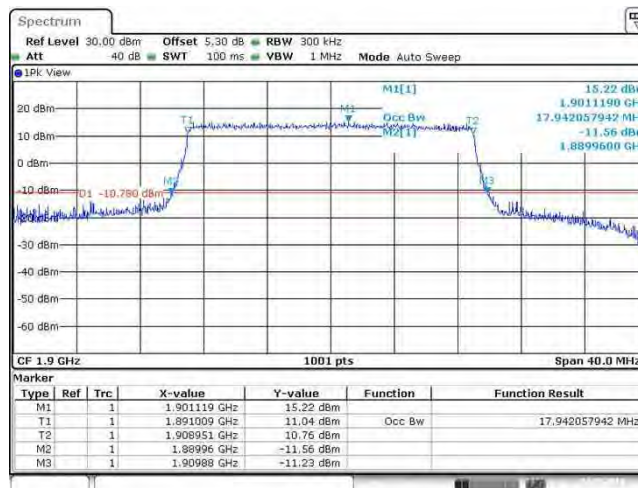
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180500437001

Page: 39 of 100



BAND2_20MHz_16QAM_19100_100RB#0





5. Band Edge Compliance

4.1. Test Plots

BAND2_1.4MHz_QPSK_18607_1RB#0



BAND2_1.4MHz_QPSK_18607_6RB#0



BAND2_1.4MHz_QPSK_19193_1RB#5



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

Report No.: SZEM180500437001

Page: 41 of 100



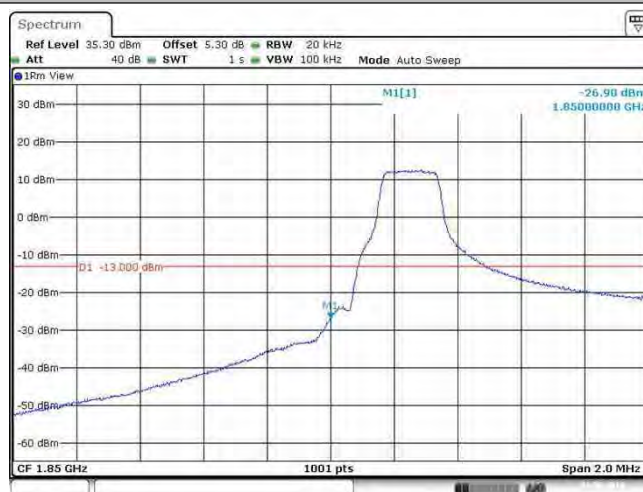
Date: 31 AUG 2018 17:27:09

BAND2_1.4MHz_QPSK_19193_6RB#0



Date: 31 AUG 2018 17:32:04

BAND2_1.4MHz_64QAM_18607_1RB#0



Date: 31 AUG 2018 17:26:17

BAND2_1.4MHz_64QAM_18607_6RB#0



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

Report No.: SZEM180500437001

Page: 42 of 100



Date: 31 AUG 2018 17:31:06

BAND2_1.4MHz_64QAM_19193_1RB#5



Date: 31 AUG 2018 17:28:42

BAND2_1.4MHz_64QAM_19193_6RB#0



Date: 31 AUG 2018 17:33:37

BAND2_1.4MHz_16QAM_18607_1RB#0

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



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

Report No.: SZEM180500437001

Page: 43 of 100



Date: 31 AUG 2018 17:25:31

BAND2_1.4MHz_16QAM_18607_6RB#0



Date: 31 AUG 2018 17:30:19

BAND2_1.4MHz_16QAM_19193_1RB#5



Date: 31 AUG 2018 17:27:55

BAND2_1.4MHz_16QAM_19193_6RB#0



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

Report No.: SZEM180500437001

Page: 44 of 100



Date: 31 AUG 2018 17:32:59

BAND2_3MHz_QPSK_18615_1RB#0



Date: 31 AUG 2018 17:34:39

BAND2_3MHz_QPSK_18615_15RB#0



Date: 31 AUG 2018 17:39:49

BAND2_3MHz_QPSK_19185_1RB#14

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.



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

Report No.: SZEM180500437001

Page: 45 of 100



Date: 31 AUG 2018 17:37:05

BAND2_3MHz_QPSK_19185_15RB#0



Date: 31 AUG 2018 17:42:45

BAND2_3MHz_64QAM_18615_1RB#0



Date: 31 AUG 2018 17:36:02

BAND2_3MHz_64QAM_18615_15RB#0



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

Report No.: SZEM180500437001

Page: 46 of 100



Date: 31 AUG 2018 17:41:12

BAND2_3MHz_64QAM_19185_1RB#14



Date: 31 AUG 2018 17:38:37

BAND2_3MHz_64QAM_19185_15RB#0



Date: 31 AUG 2018 17:44:17

BAND2_3MHz_16QAM_18615_1RB#0



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

Report No.: SZEM180500437001

Page: 47 of 100



Date: 31 AUG 2018 17:35:16

BAND2_3MHz_16QAM_18615_15RB#0



Date: 31 AUG 2018 17:40:26

BAND2_3MHz_16QAM_19185_1RB#14



Date: 31 AUG 2018 17:37:52

BAND2_3MHz_16QAM_19185_15RB#0



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

Report No.: SZEM180500437001

Page: 48 of 100



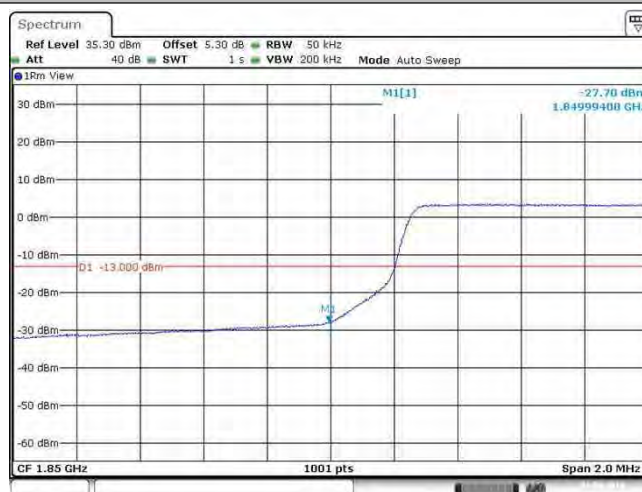
Date: 31 AUG 2018 17:43:31

BAND2_5MHz_QPSK_18625_1RB#0



Date: 31 AUG 2018 17:45:21

BAND2_5MHz_QPSK_18625_25RB#0



Date: 31 AUG 2018 17:58:38

BAND2_5MHz_QPSK_19175_1RB#24



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

Report No.: SZEM180500437001

Page: 49 of 100



Date: 31 AUG 2018 17:47:55

BAND2_5MHz_QPSK_19175_25RB#0



Date: 31 AUG 2018 17:53:42

BAND2_5MHz_64QAM_18625_1RB#0



Date: 31 AUG 2018 17:46:52

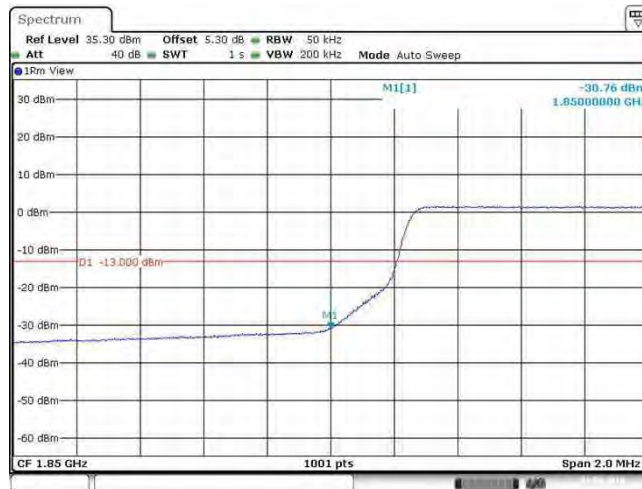
BAND2_5MHz_64QAM_18625_25RB#0



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

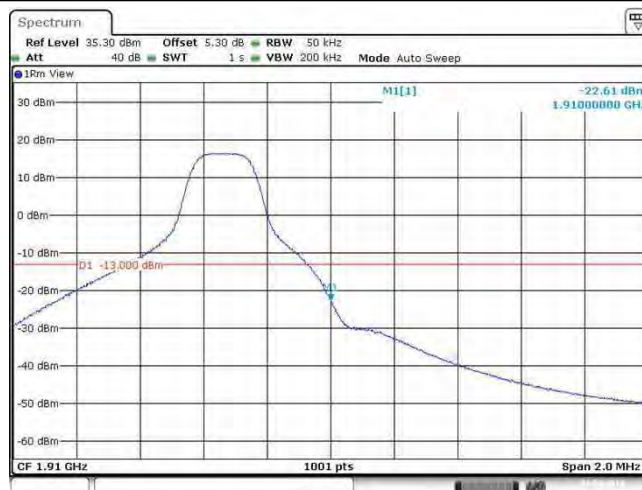
Report No.: SZEM180500437001

Page: 50 of 100



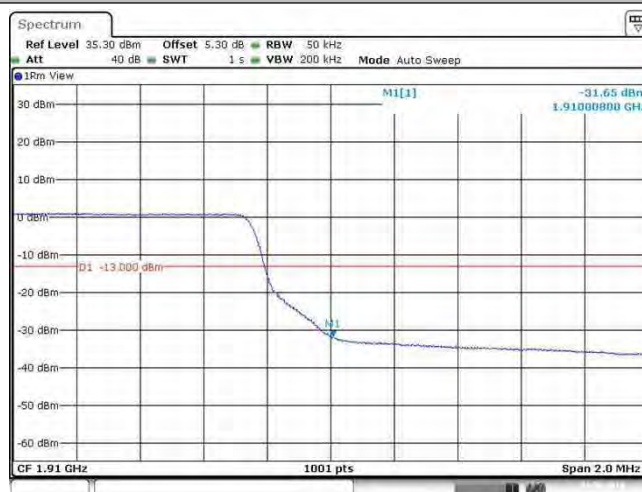
Date: 31 AUG 2018 17:52:02

BAND2_5MHz_64QAM_19175_1RB#24



Date: 31 AUG 2018 17:49:27

BAND2_5MHz_64QAM_19175_25RB#0



Date: 31 AUG 2018 17:55:14

BAND2_5MHz_16QAM_18625_1RB#0