Appendix B

E-UTRA BAND 4

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.

CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER 3
1.1. Test Result 3
2. PEAK-TO-AVERAGE RATIO(CCDF) 10
2.1. Test Result 10
2.2. Test Plots 10
3. MODULATION CHARACTERISTICS 13
3.1. Test BAND = LTE BAND4 13
3.1.1. Test Mode = LTE /TM1 20MHz 13
3.1.1.1. Test Channel = MCH 13
3.1.2. Test Mode = LTE /TM2 20MHz 14
3.1.2.1. Test Channel = MCH 14
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 15
4.1. Test Result 15
4.2. Test Plots 16
5. BAND EDGE COMPLIANCE 29
5.1. Test Plots 29
6. SPURIOUS EMISSION AT ANTENNA TERMINAL 54
6.1. Test Plots 54
7. FIELD STRENGTH OF SPURIOUS RADIATION 59
7.1. Test BAND = LTE BAND 4 59
7.1.1. Test Mode =LTE/TM1 20MHz 59
7.1.1.1. Test Channel = LCH 59
7.1.1.2. Test Channel = MCH 59
7.1.1.3. Test Channel = HCH 60
8. FREQUENCY STABILITY 61
8.1. Frequency Vs Voltage 61
8.2. Frequency Vs Temperature 61

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.

1. Effective (Isotropic) Radiated Power

1.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.55	23.65	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.57	23.67	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.59	23.69	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.57	23.67	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.60	23.70	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.52	23.62	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.50	22.60	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.46	23.56	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.67	23.77	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.66	23.76	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.60	23.70	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.77	23.87	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.84	23.94	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.64	22.74	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.43	23.53	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.67	23.77	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.66	23.76	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.74	23.84	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.74	23.84	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.74	23.84	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.76	22.86	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.36	22.46	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.32	22.42	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	20.98	22.08	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.23	22.33	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.20	22.30	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.32	22.42	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.18	21.28	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.09	22.19	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.15	22.25	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	20.99	22.09	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.65	22.75	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.59	22.69	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.69	22.79	30.00	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.

Band4	1.4MHz	16QAM	20175	6RB#0	20.47	21.57	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.30	22.40	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.31	22.41	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.16	22.26	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.43	22.53	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.63	22.73	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.59	22.69	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.50	21.60	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.31	23.41	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.33	23.43	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.17	23.27	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.52	22.62	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.51	22.61	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.49	22.59	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.57	22.67	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.45	23.55	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.48	23.58	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.58	23.68	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.66	22.76	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.75	22.85	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.73	22.83	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.68	22.78	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.63	23.73	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.42	23.52	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.45	23.55	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.61	22.71	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.73	22.83	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.67	22.77	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.67	22.77	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.79	21.89	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	20.81	21.91	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	20.65	21.75	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.66	21.76	30.00	FAIL
Band4	3MHz	16QAM	19965	8RB#4	20.36	21.46	30.00	FAIL
Band4	3MHz	16QAM	19965	8RB#7	20.57	21.67	30.00	FAIL
Band4	3MHz	16QAM	19965	15RB#0	20.66	21.76	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.77	22.87	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.47	22.57	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.07	22.17	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.63	21.73	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.84	21.94	30.00	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.

Band4	3MHz	16QAM	20175	8RB#7	20.70	21.80	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.72	21.82	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.64	22.74	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.20	22.30	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.56	22.66	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.38	21.48	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.41	21.51	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.29	21.39	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.71	21.81	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.47	23.57	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.44	23.54	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.11	23.21	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.49	22.59	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.53	22.63	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.56	22.66	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.53	22.63	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.46	23.56	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.48	23.58	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.36	23.46	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.68	22.78	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.82	22.92	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.73	22.83	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.63	22.73	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.36	23.46	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.37	23.47	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.47	23.57	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.80	22.90	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.79	22.89	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.79	22.89	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.82	22.92	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.24	22.34	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	20.84	21.94	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	20.44	21.54	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.41	21.51	30.00	FAIL
Band4	5MHz	16QAM	19975	12RB#6	20.26	21.36	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.24	21.34	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.65	21.75	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.76	22.86	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.93	23.03	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.97	23.07	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.65	21.75	30.00	FAIL

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.

Band4	5MHz	16QAM	20175	12RB#6	20.54	21.64	30.00	FAIL
Band4	5MHz	16QAM	20175	12RB#13	20.53	21.63	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.60	21.70	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	20.90	22.00	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.97	22.07	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.26	22.36	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.55	21.65	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.63	21.73	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.64	21.74	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.92	22.02	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.26	23.36	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.46	23.56	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.30	23.40	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.67	22.77	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.69	22.79	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.65	22.75	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.63	22.73	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.44	23.54	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.78	23.88	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.49	23.59	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.75	22.85	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.72	22.82	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.70	22.80	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.78	22.88	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.75	23.85	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.88	23.98	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.42	23.52	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.00	23.10	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.87	22.97	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.87	22.97	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.80	22.90	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.57	22.67	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.20	22.30	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.11	22.21	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.52	21.62	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.57	21.67	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.62	21.72	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.70	21.80	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.36	22.46	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.40	22.50	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.50	22.60	30.00	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.

Band4	10MHz	16QAM	20175	25RB#0	20.77	21.87	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.80	21.90	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.67	21.77	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.60	21.70	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.57	22.67	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.35	22.45	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.60	22.70	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.99	22.09	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.06	22.16	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.01	22.11	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.85	21.95	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.40	23.50	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.71	23.81	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.62	23.72	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	21.58	22.68	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	21.65	22.75	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	21.66	22.76	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.62	22.72	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.73	23.83	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.53	23.63	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.66	23.76	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.77	22.87	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	21.71	22.81	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	21.78	22.88	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.76	22.86	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.83	23.93	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.82	23.92	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.41	23.51	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.10	23.20	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	21.90	23.00	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	21.84	22.94	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.99	23.09	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.40	22.50	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.43	22.53	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.36	22.46	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	20.59	21.69	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	20.61	21.71	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	20.68	21.78	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.73	21.83	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.28	22.38	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.75	22.85	30.00	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.

Band4	15MHz	16QAM	20175	1RB#74	21.05	22.15	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.64	21.74	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.79	21.89	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.78	21.88	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.83	21.93	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.19	22.29	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.71	22.81	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.39	22.49	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.04	22.14	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.03	22.13	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	20.95	22.05	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.95	22.05	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.30	23.40	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.50	23.60	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.36	23.46	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.74	22.84	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.81	22.91	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.70	22.80	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.66	22.76	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.29	23.39	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.78	23.88	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.41	23.51	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.72	22.82	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.76	22.86	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.82	22.92	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.77	22.87	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.48	23.58	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.02	24.12	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.68	23.78	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.05	23.15	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.95	23.05	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.98	23.08	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.02	23.12	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.68	22.78	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.95	23.05	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.53	22.63	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.72	21.82	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.80	21.90	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.67	21.77	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.62	21.72	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	20.71	21.81	30.00	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.

Band4	20MHz	16QAM	20175	1RB#49	21.34	22.44	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.12	22.22	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.59	21.69	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.94	22.04	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.79	21.89	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.71	21.81	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.35	22.45	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.39	22.49	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.50	22.60	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.88	21.98	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.15	22.25	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.14	22.24	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.06	22.16	30.00	PASS

Remark:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

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.

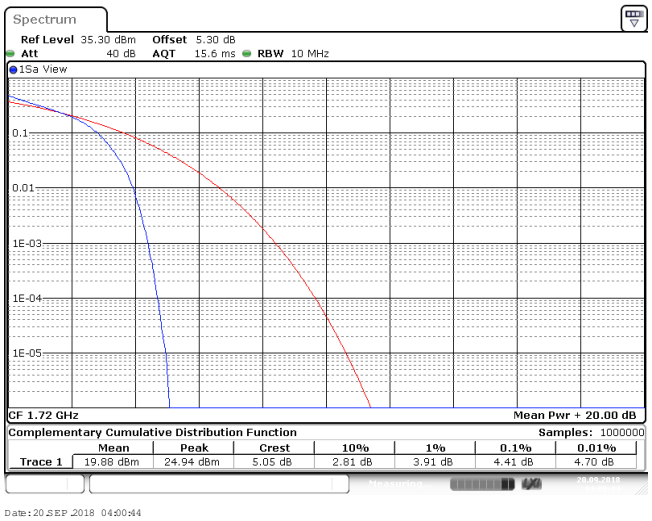
2. Peak-to-Average Ratio(CCDF)

2.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.41	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.35	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.14	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.03	13	PASS

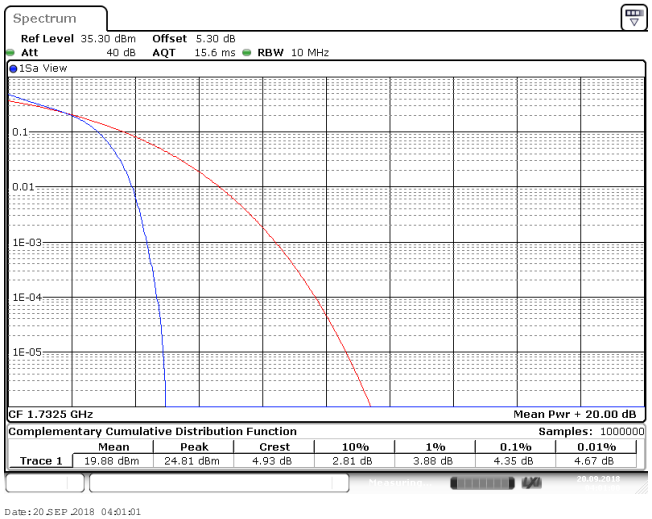
2.2.Test Plots

Band4_20MHz_QPSK_20050_100RB#0

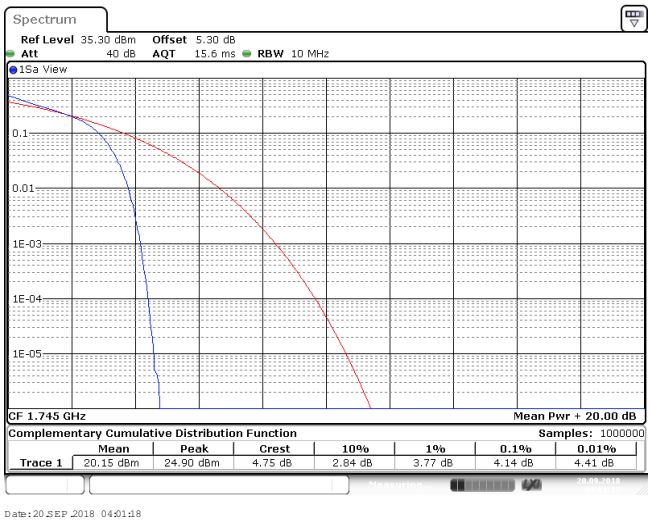


Band4_20MHz_QPSK_20175_100RB#0

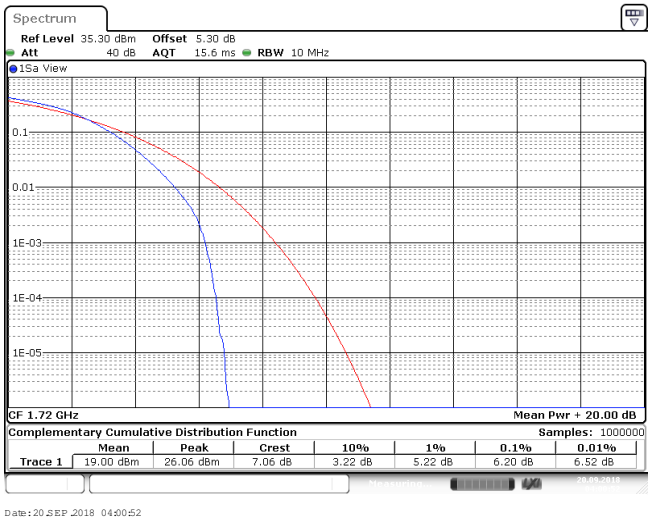
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_QPSK_20300_100RB#0

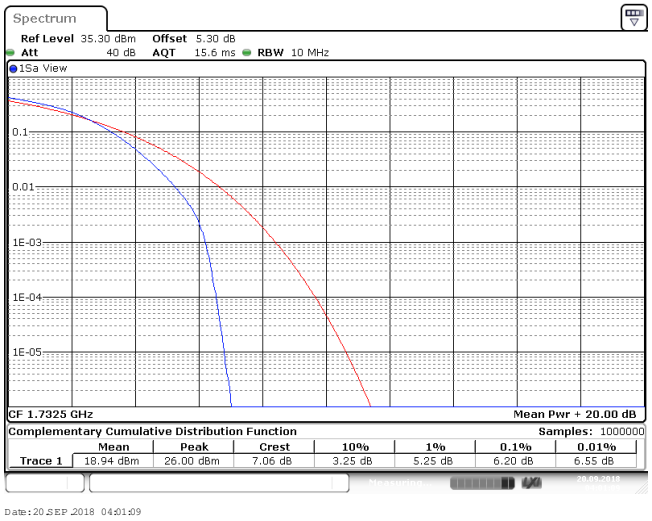


Band4_20MHz_16QAM_20050_100RB#0

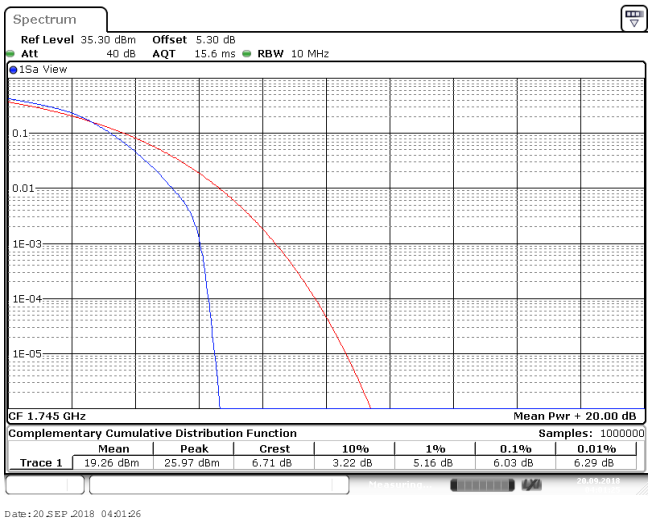


Band4_20MHz_16QAM_20175_100RB#0

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.



Band4_20MHz_16QAM_20300_100RB#0



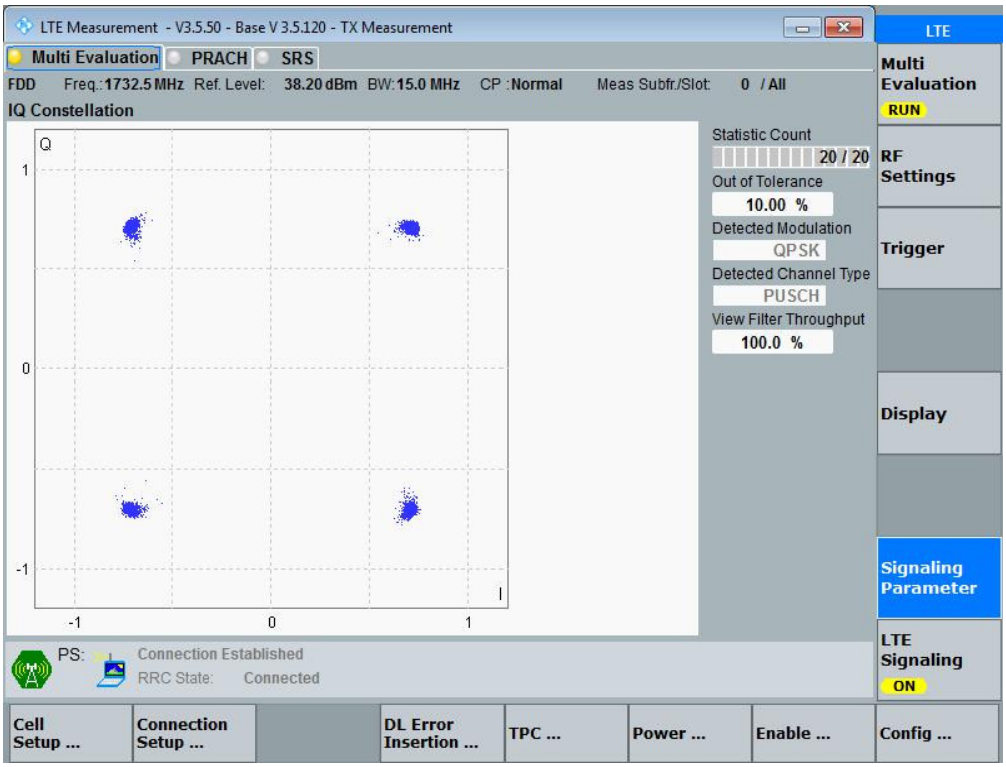
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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

3. Modulation Characteristics

3.1. Test BAND = LTE BAND4

3.1.1. Test Mode = LTE /TM1 20MHz

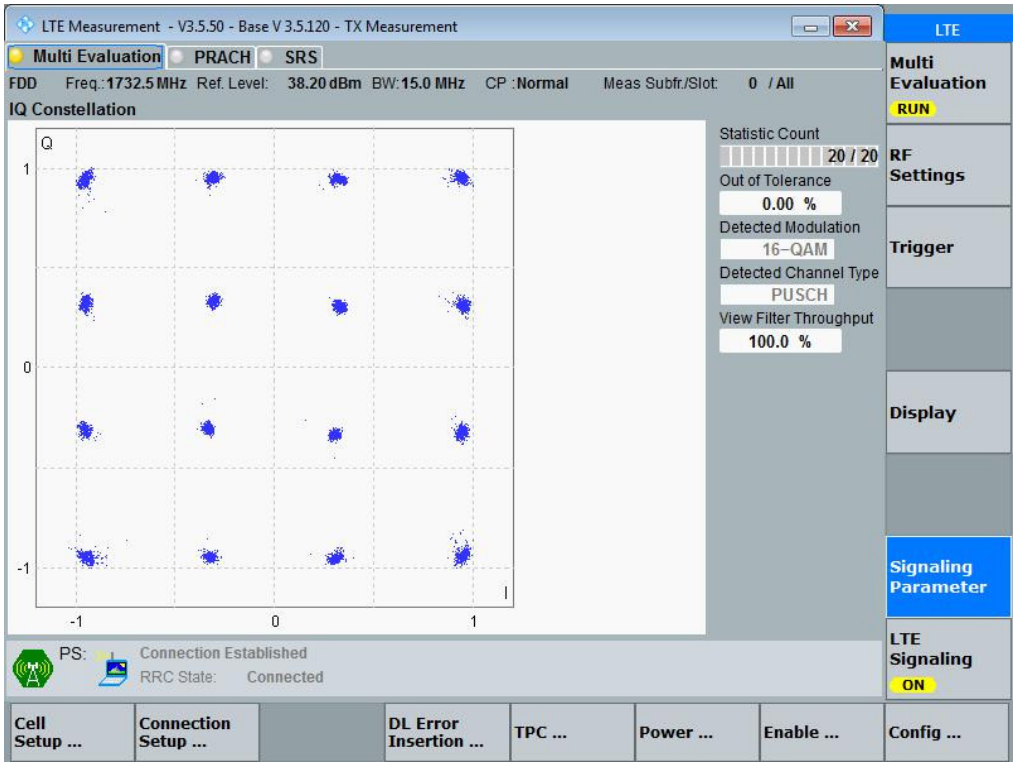
3.1.1.1. Test Channel = MCH



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.

3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



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.

4. 26dB Bandwidth and Occupied Bandwidth

4.1.Test Result

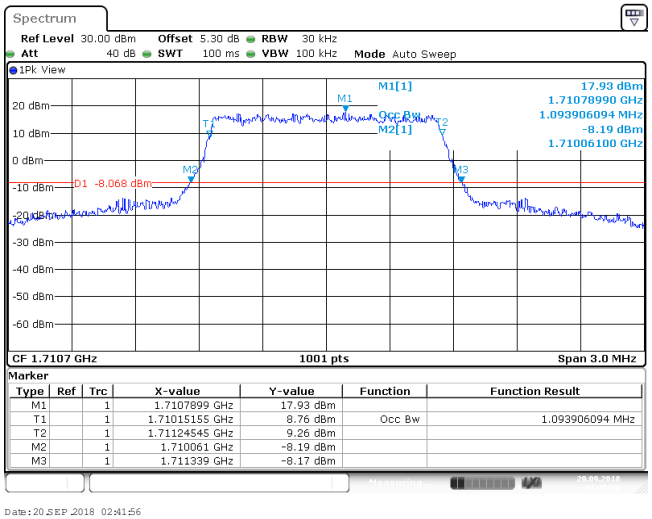
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.094	1.278	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.263	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.094	1.278	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.302	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.091	1.317	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.094	1.293	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	3.006	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	2.994	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.703	3.006	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.988	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.691	2.976	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.988	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.930	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.960	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.950	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.496	4.940	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.930	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	4.950	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.911	9.680	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.720	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.740	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.760	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.931	9.740	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.740	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.700	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.640	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.397	14.670	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.700	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.640	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.397	14.610	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.360	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.862	19.400	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.822	19.360	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.

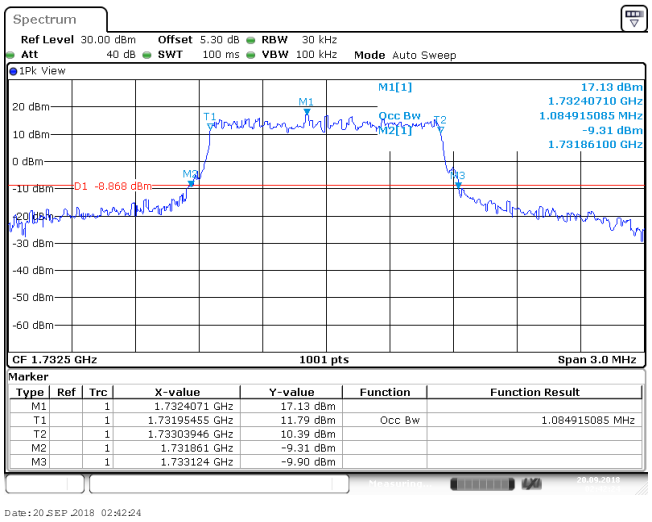
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.280	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.400	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.822	19.440	PASS

4.2. Test Plots

Band4_1.4MHz_QPSK_19957_6RB#0

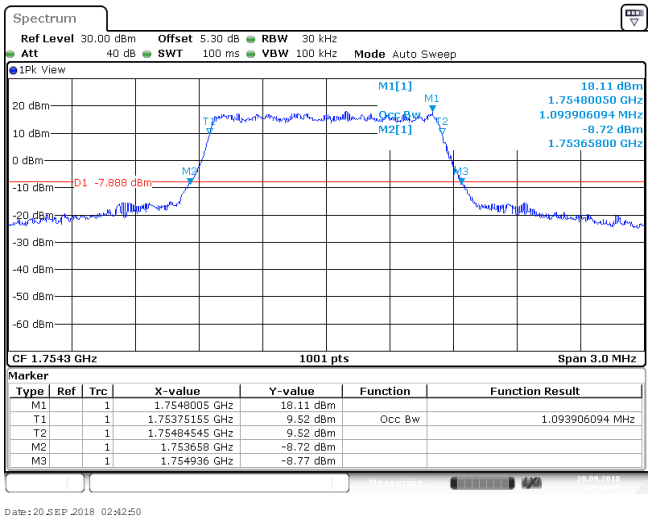


Band4_1.4MHz_QPSK_20175_6RB#0

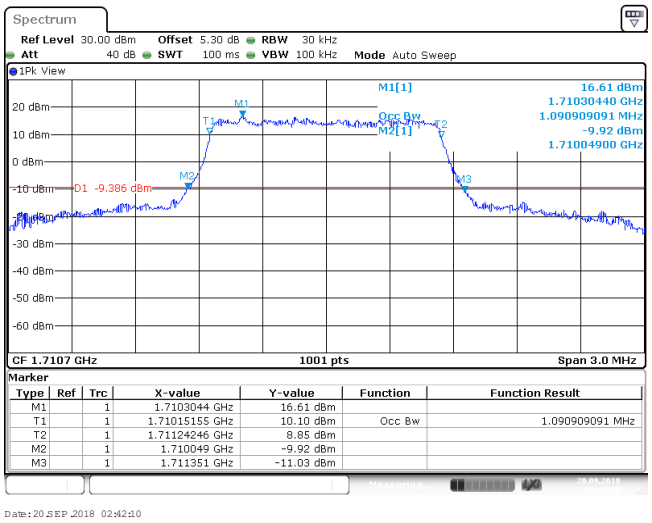


Band4_1.4MHz_QPSK_20393_6RB#0

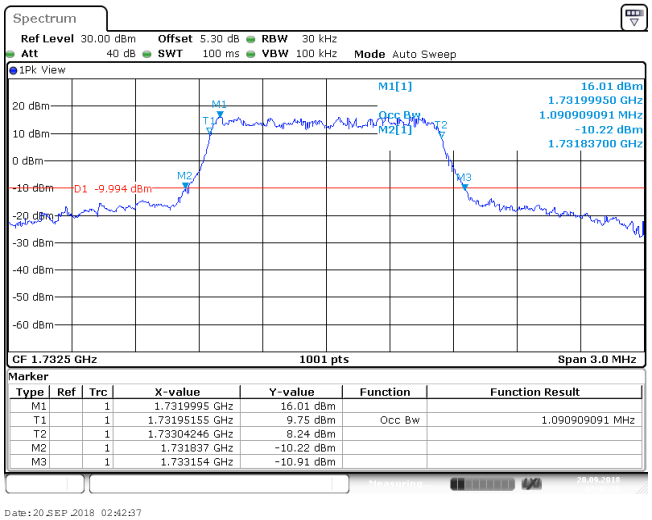
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_1.4MHz_16QAM_19957_6RB#0

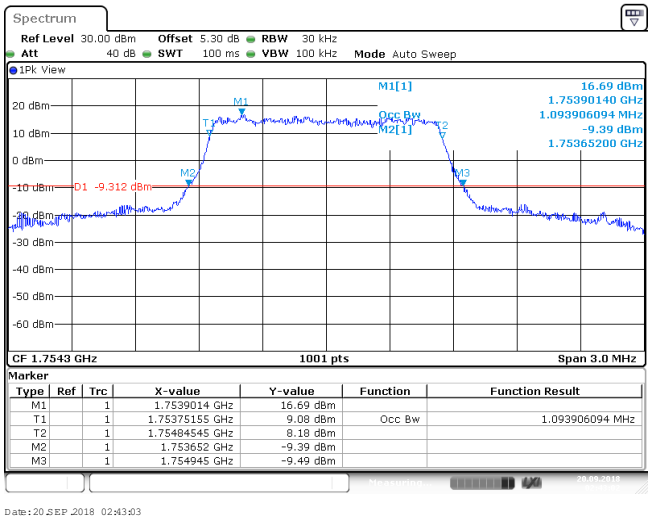


Band4_1.4MHz_16QAM_20175_6RB#0

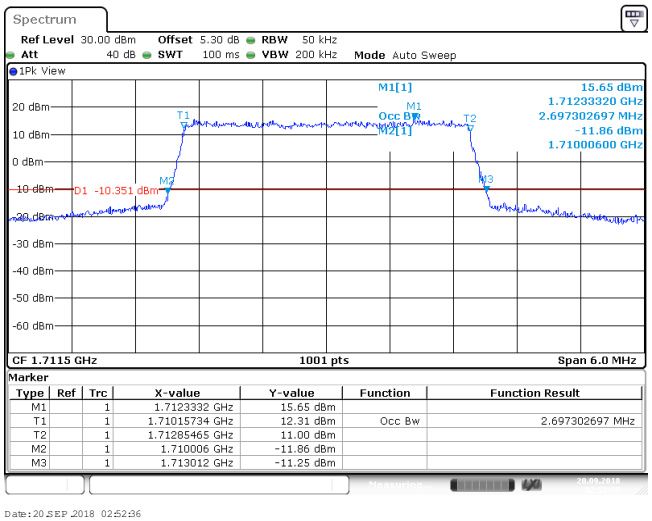


Band4_1.4MHz_16QAM_20393_6RB#0

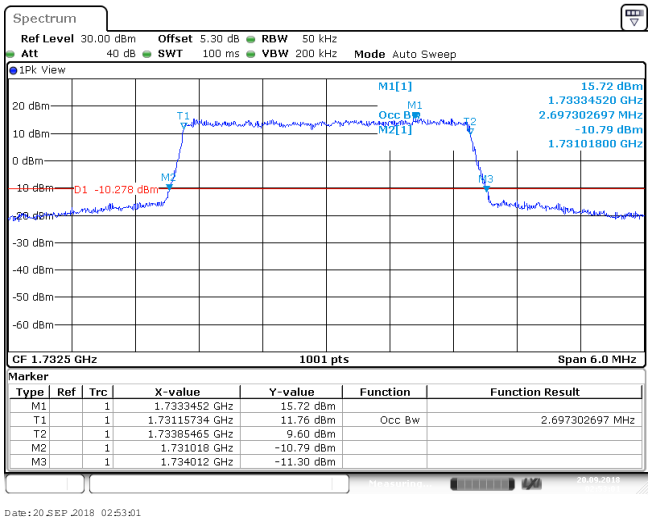
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_3MHz_QPSK_19965_15RB#0

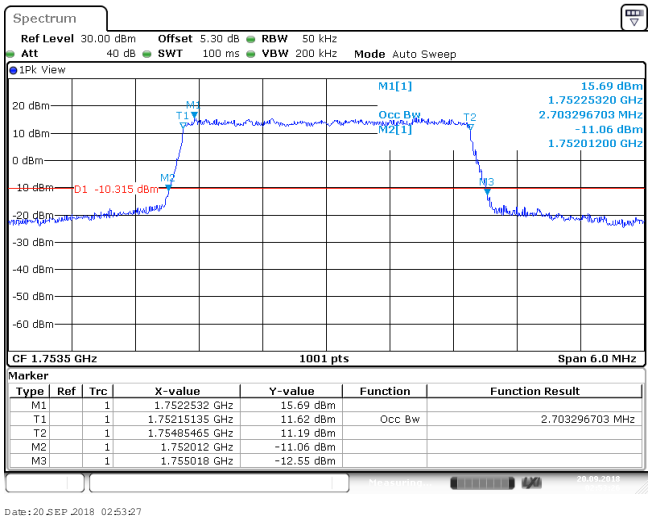


Band4_3MHz_QPSK_20175_15RB#0

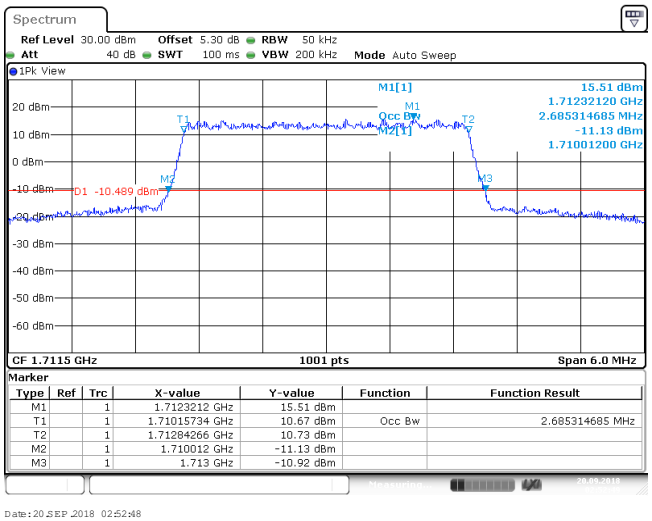


Band4_3MHz_QPSK_20385_15RB#0

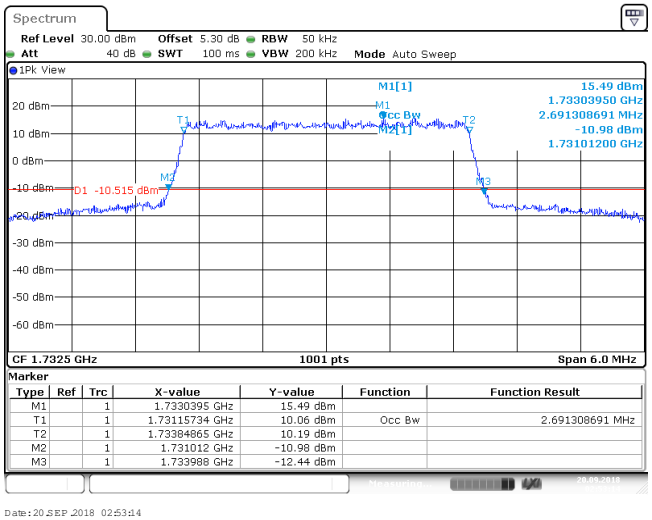
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_3MHz_16QAM_19965_15RB#0

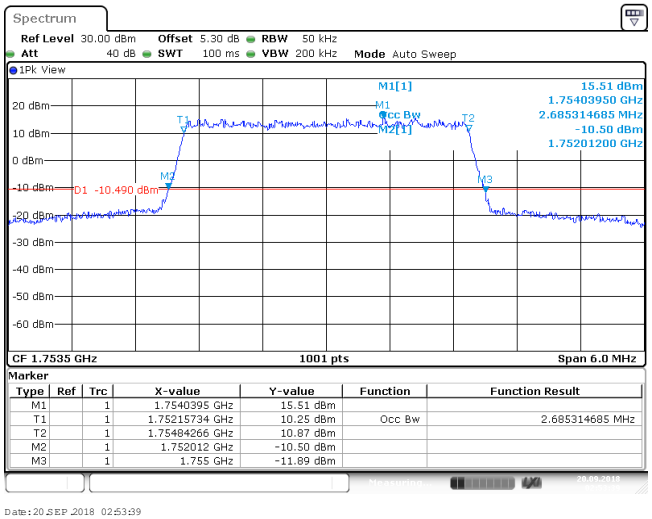


Band4_3MHz_16QAM_20175_15RB#0

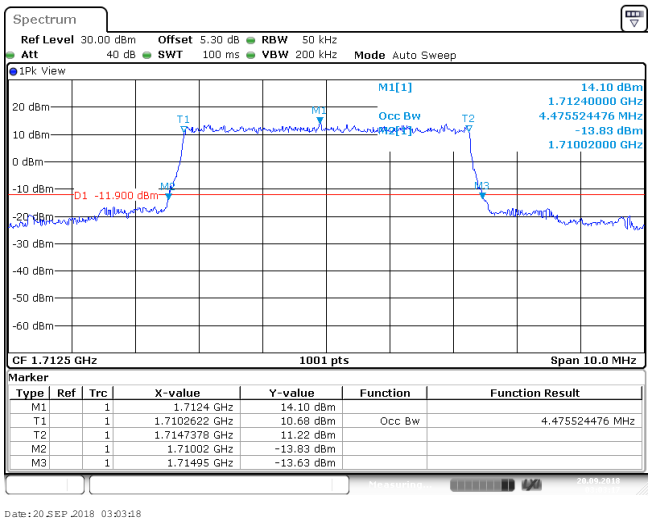


Band4_3MHz_16QAM_20385_15RB#0

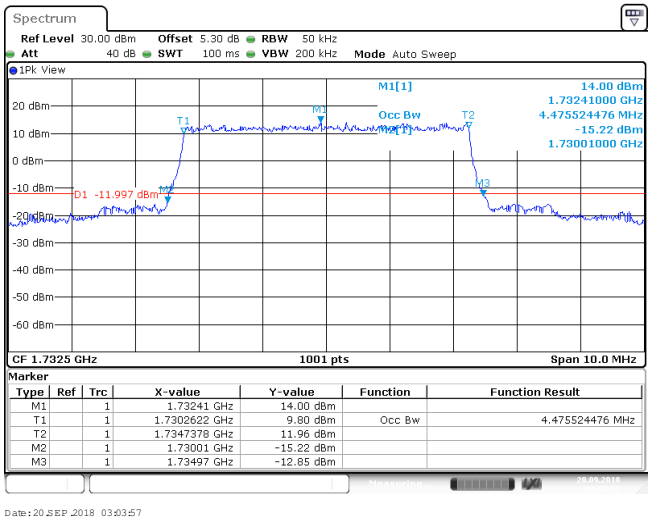
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_5MHz_QPSK_19975_25RB#0

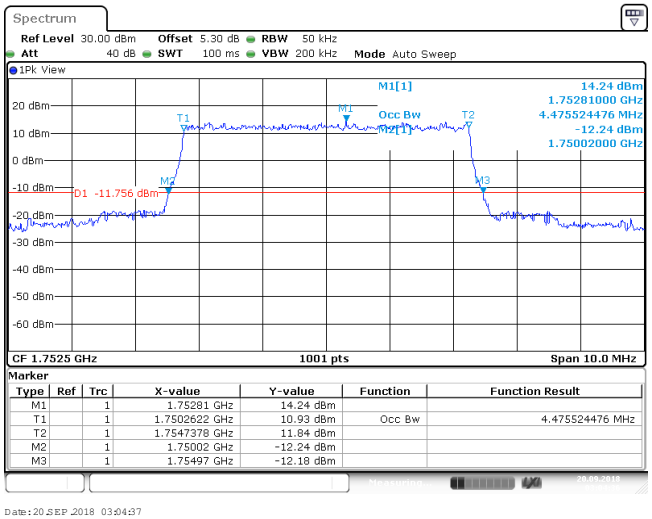


Band4_5MHz_QPSK_20175_25RB#0

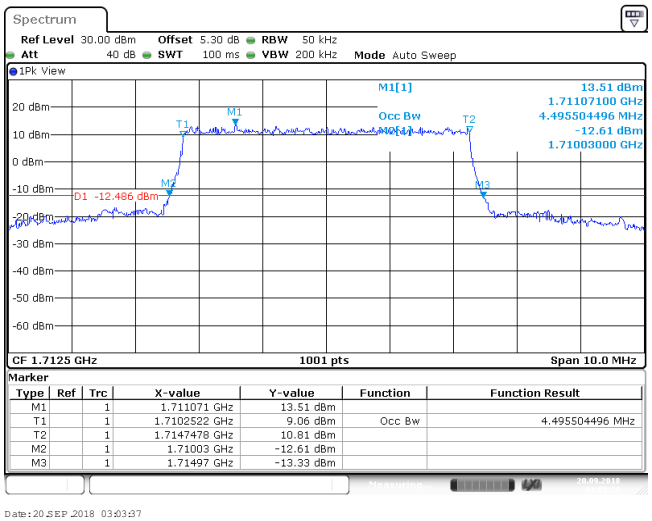


Band4_5MHz_QPSK_20375_25RB#0

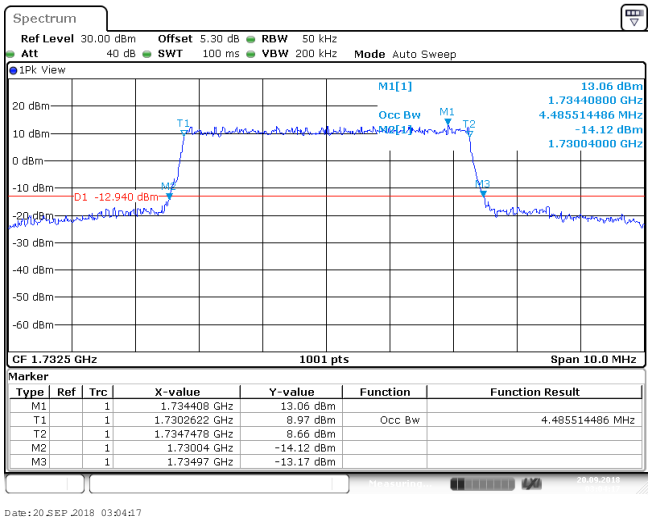
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_5MHz_16QAM_19975_25RB#0

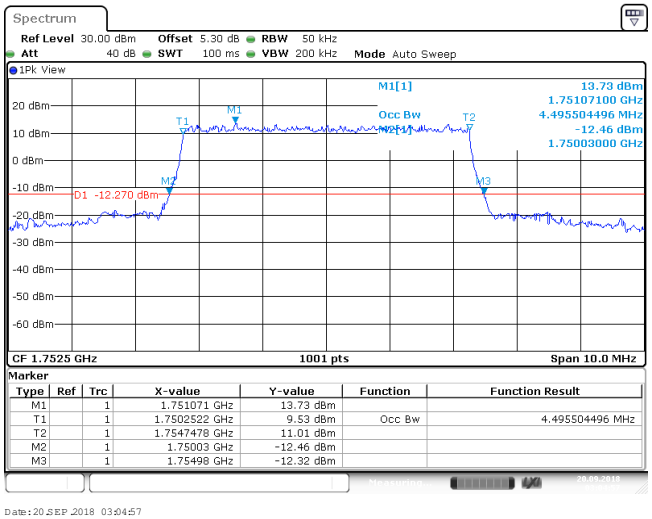


Band4_5MHz_16QAM_20175_25RB#0

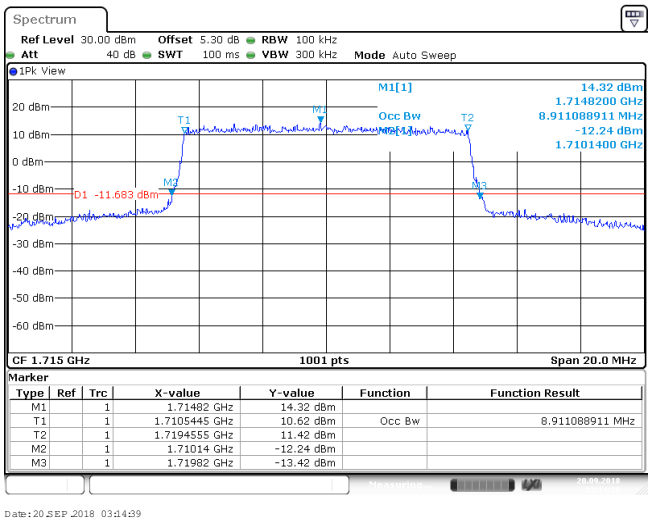


Band4_5MHz_16QAM_20375_25RB#0

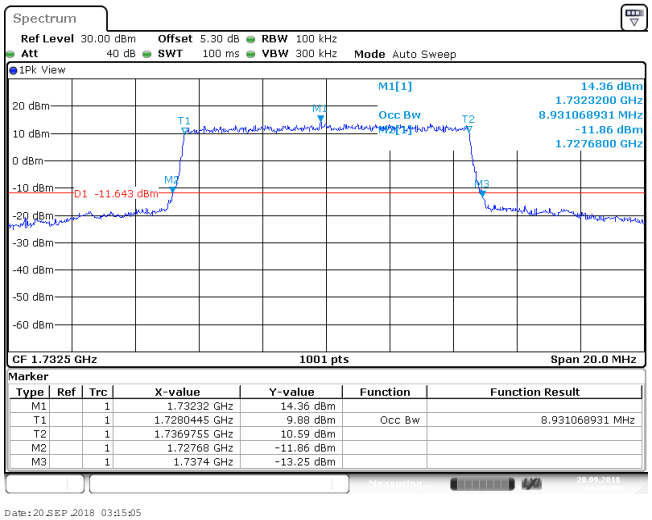
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_10MHz_QPSK_20000_50RB#0

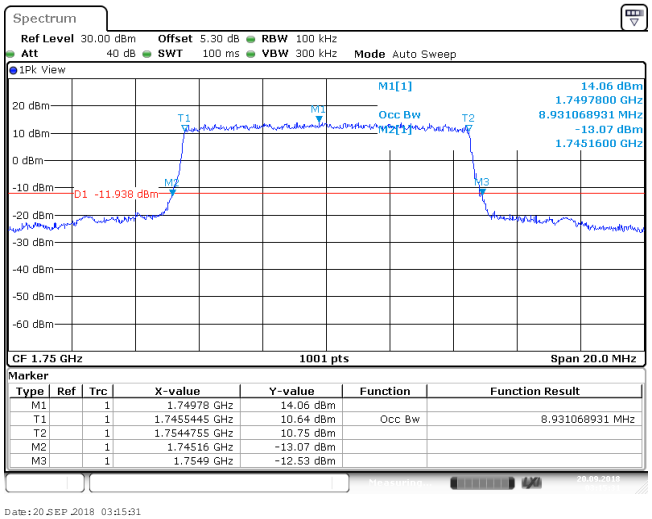


Band4_10MHz_QPSK_20175_50RB#0

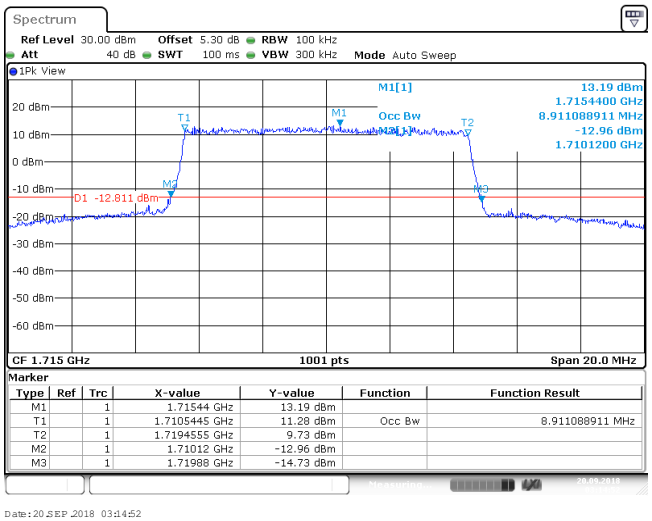


Band4_10MHz_QPSK_20350_50RB#0

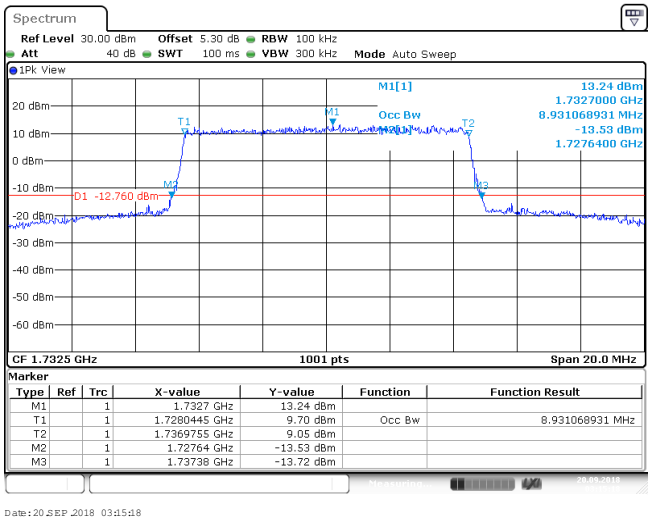
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_10MHz_16QAM_20000_50RB#0

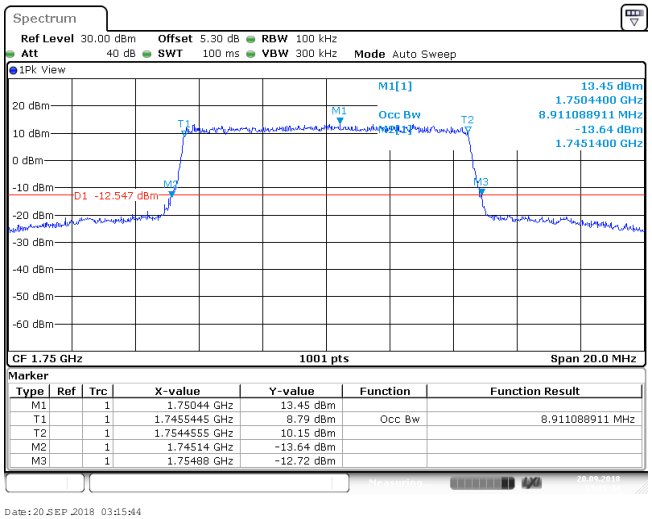


Band4_10MHz_16QAM_20175_50RB#0

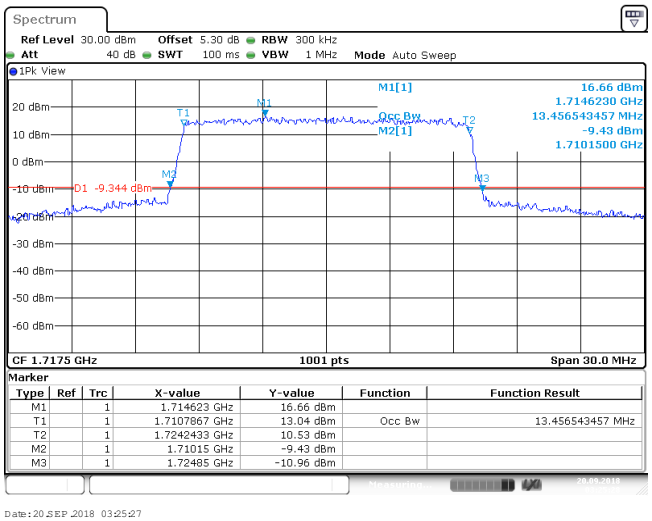


Band4_10MHz_16QAM_20350_50RB#0

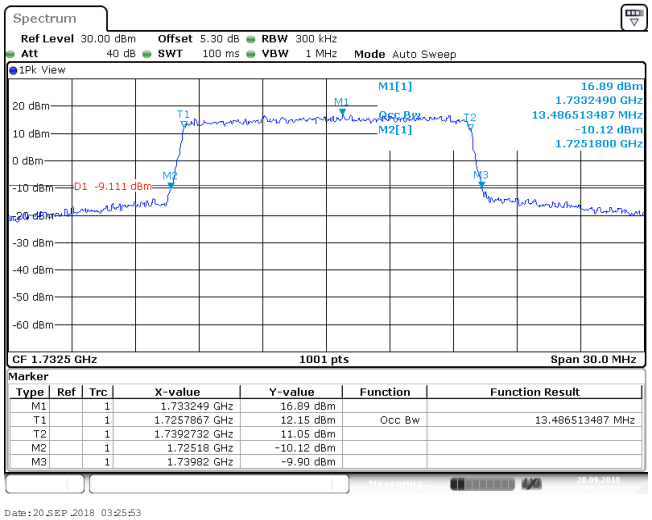
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_15MHz_QPSK_20025_75RB#0

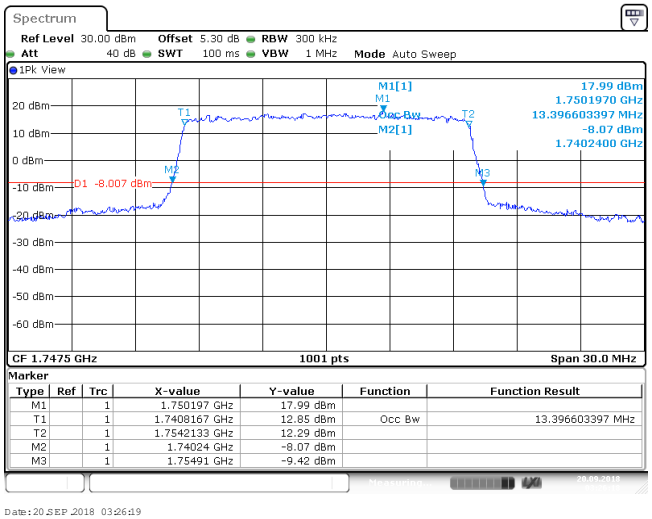


Band4_15MHz_QPSK_20175_75RB#0

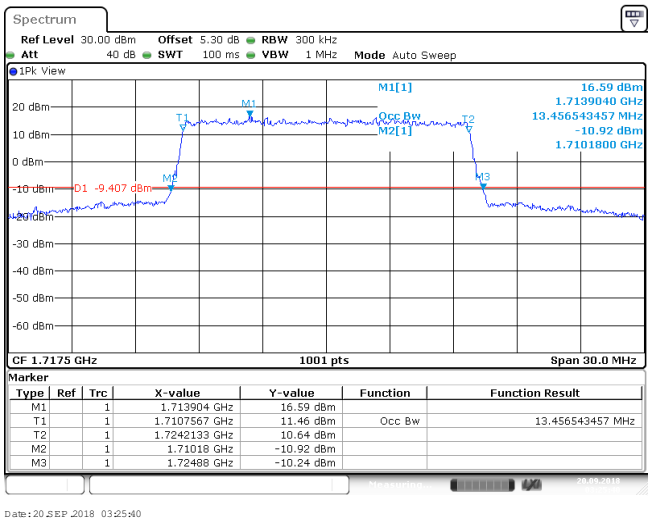


Band4_15MHz_QPSK_20325_75RB#0

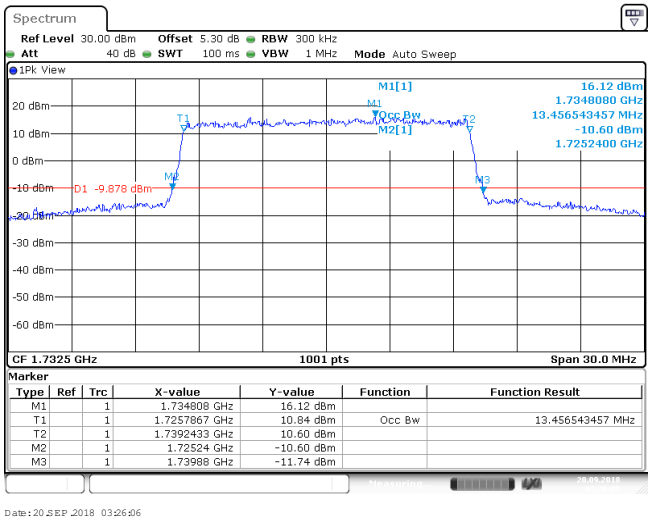
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_15MHz_16QAM_20025_75RB#0

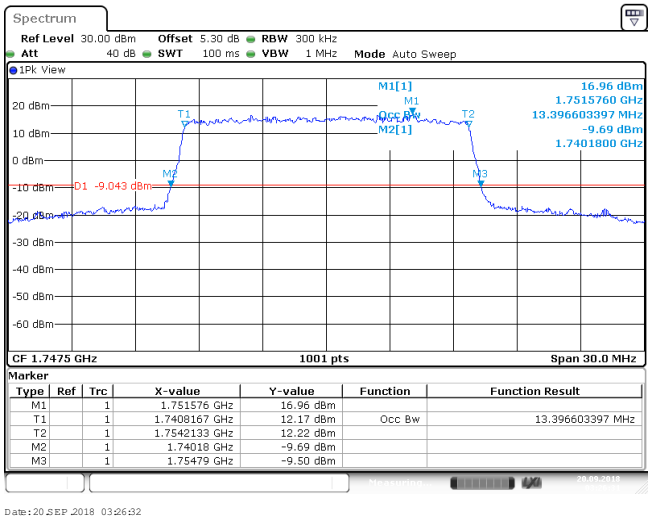


Band4_15MHz_16QAM_20175_75RB#0

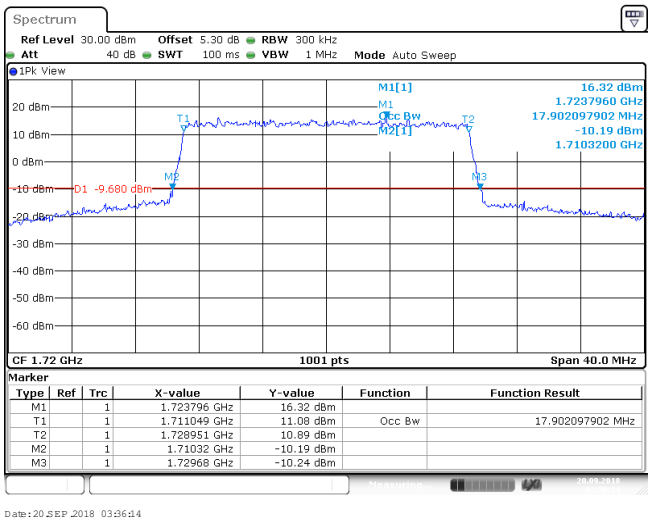


Band4_15MHz_16QAM_20325_75RB#0

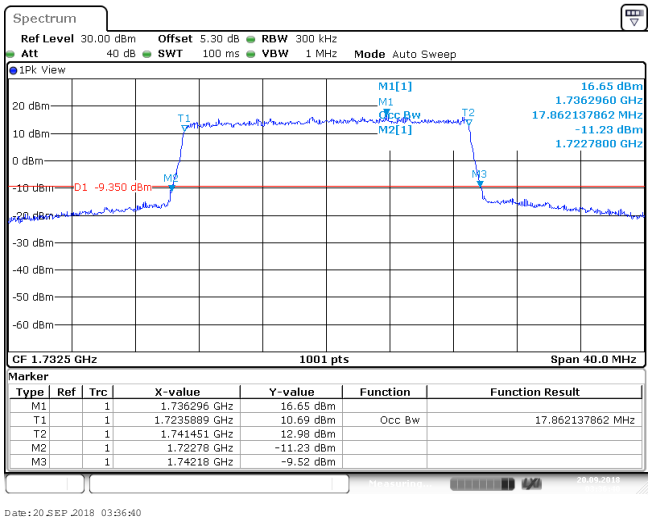
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_QPSK_20050_100RB#0

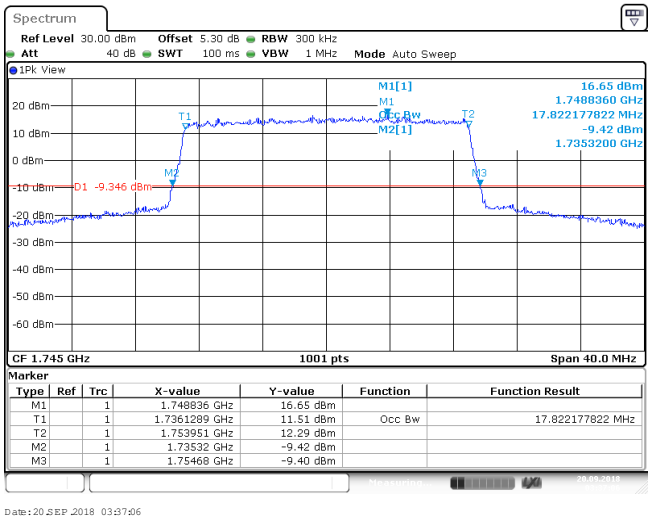


Band4_20MHz_QPSK_20175_100RB#0

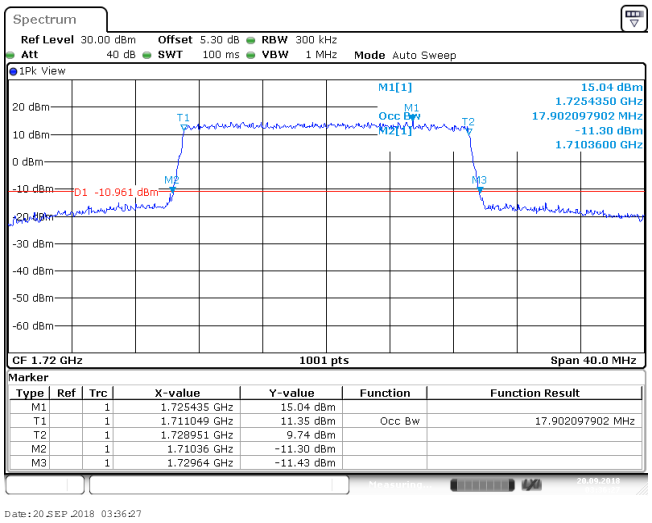


Band4_20MHz_QPSK_20300_100RB#0

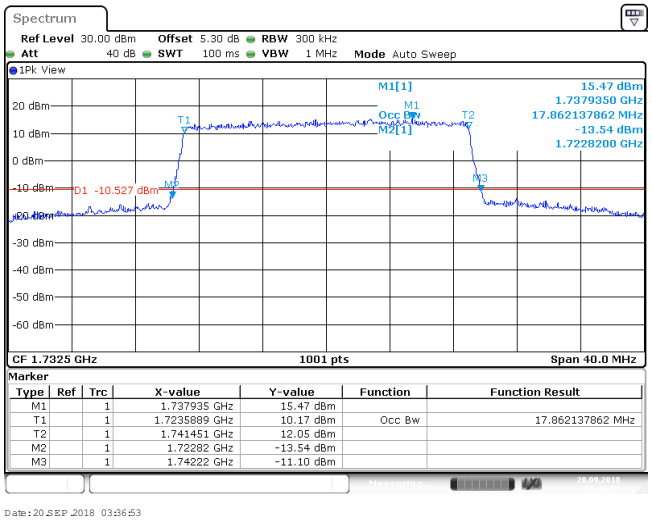
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_16QAM_20050_100RB#0

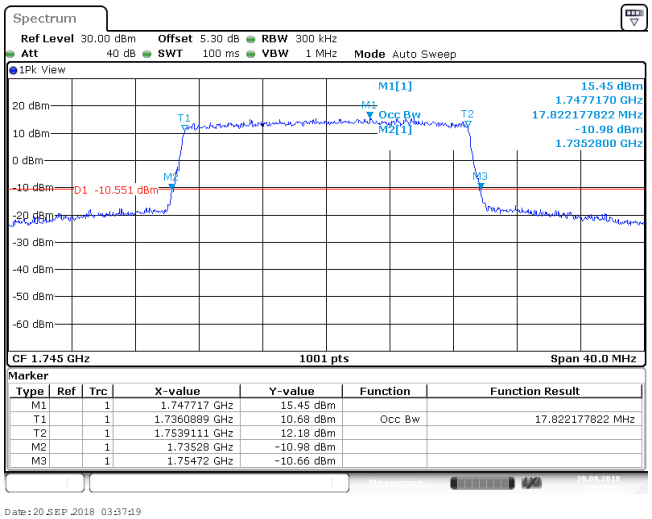


Band4_20MHz_16QAM_20175_100RB#0



Band4_20MHz_16QAM_20300_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.

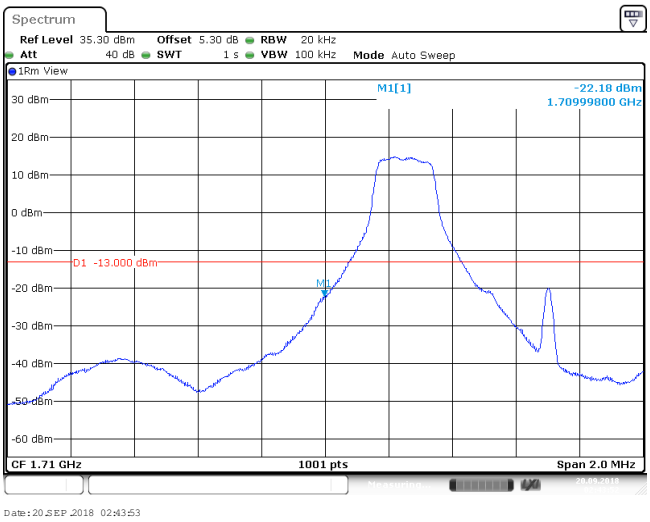


This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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

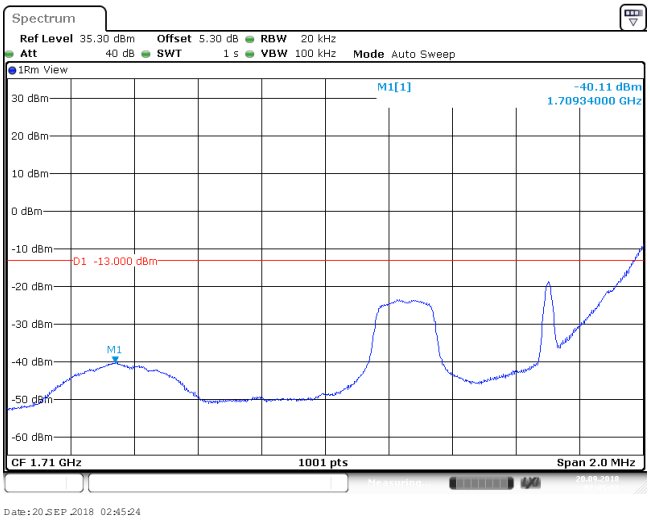
5. Band Edge Compliance

5.1.Test Plots

Band4_1.4MHz_QPSK_19957_1RB#0

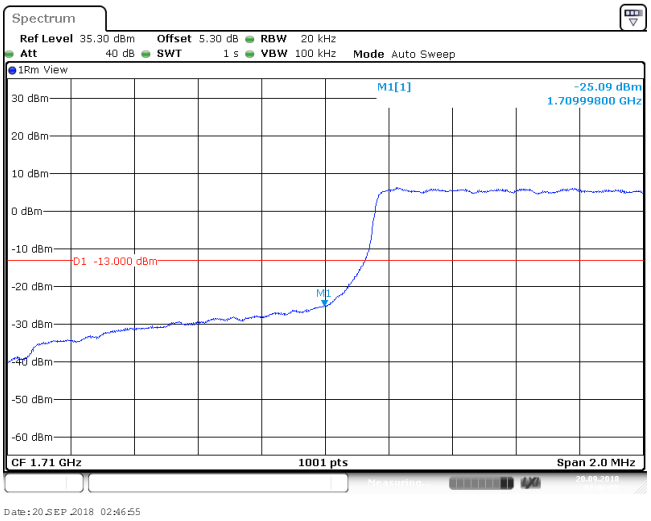


Band4_1.4MHz_QPSK_19957_1RB#5

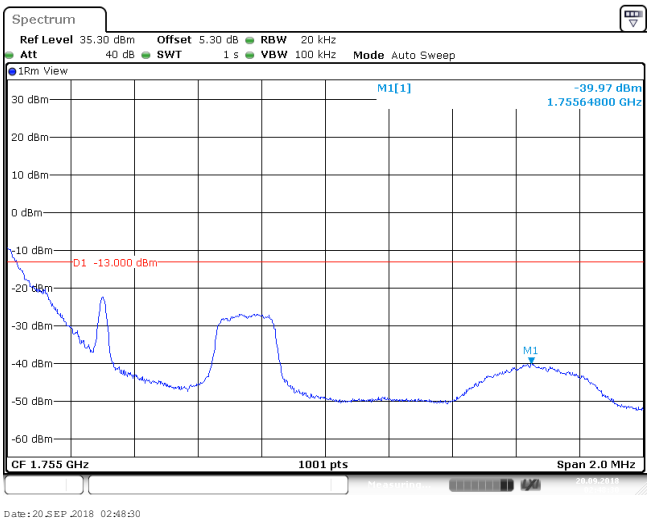


Band4_1.4MHz_QPSK_19957_6RB#0

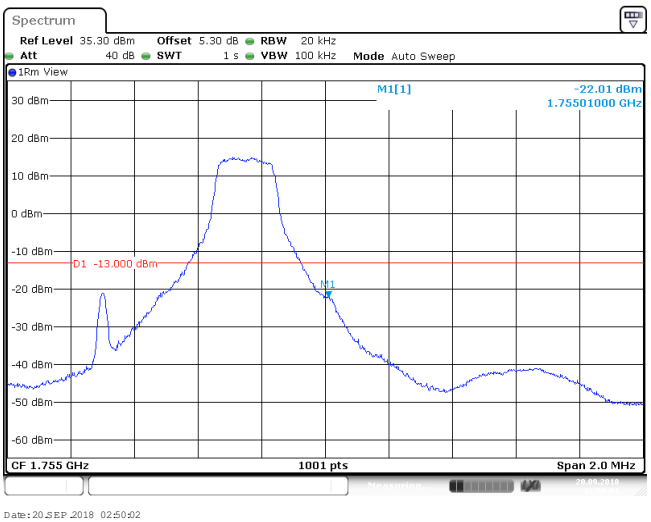
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_1.4MHz_QPSK_20393_1RB#0

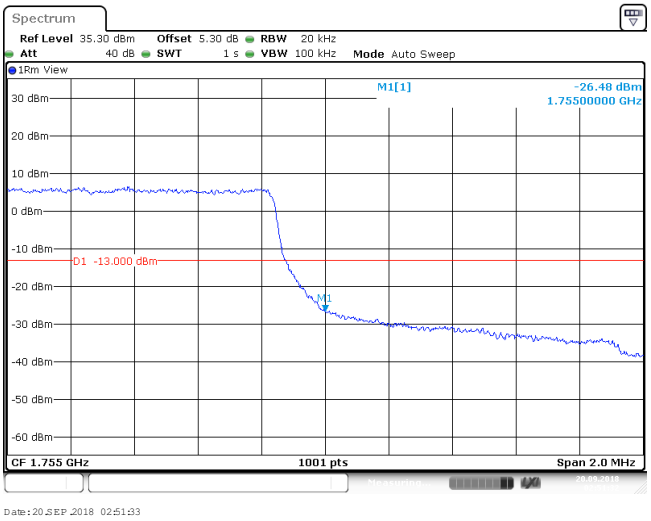


Band4_1.4MHz_QPSK_20393_1RB#5

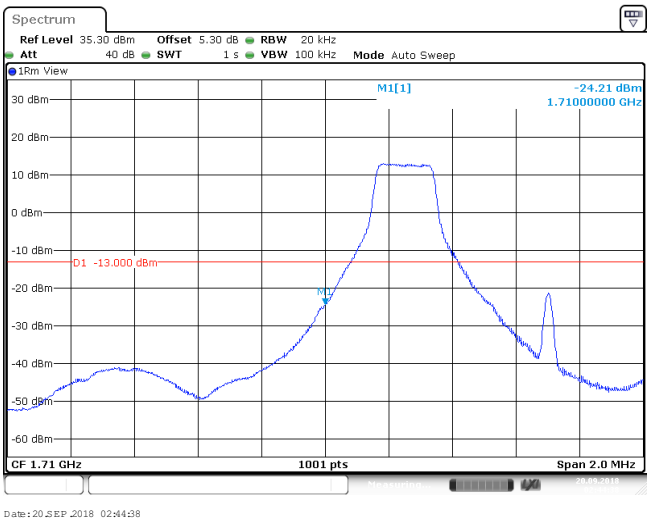


Band4_1.4MHz_QPSK_20393_6RB#0

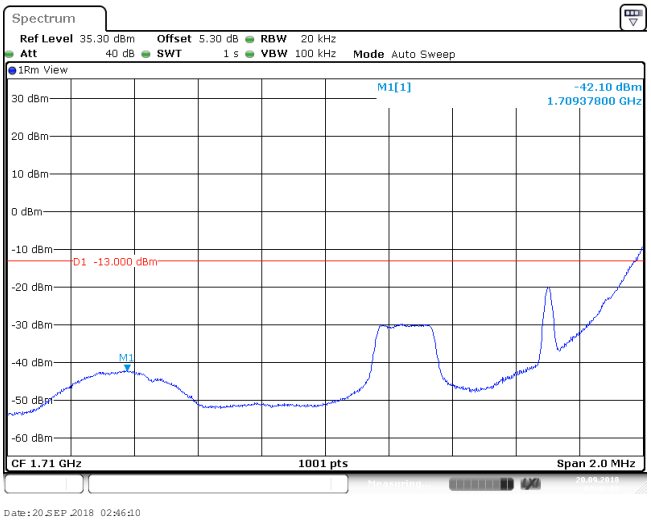
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_1.4MHz_16QAM_19957_1RB#0

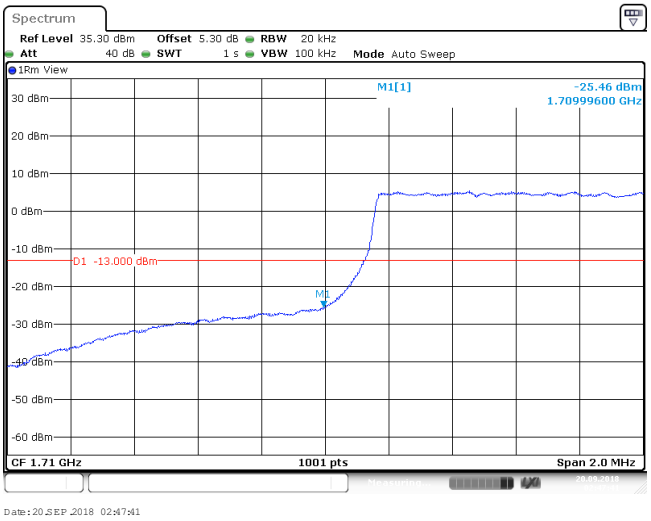


Band4_1.4MHz_16QAM_19957_1RB#5

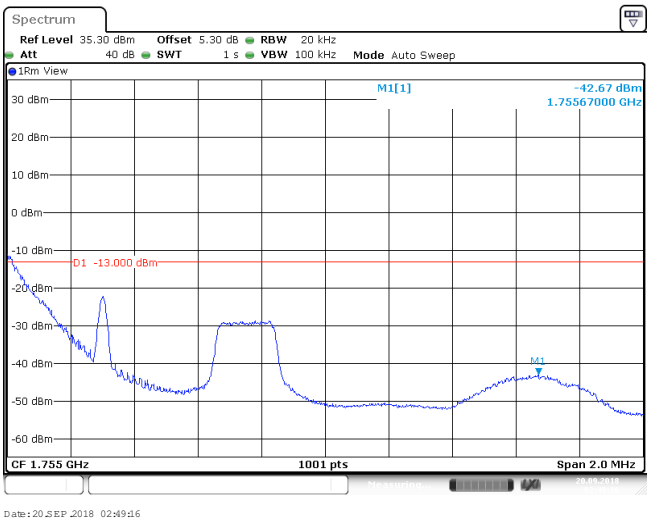


Band4_1.4MHz_16QAM_19957_6RB#0

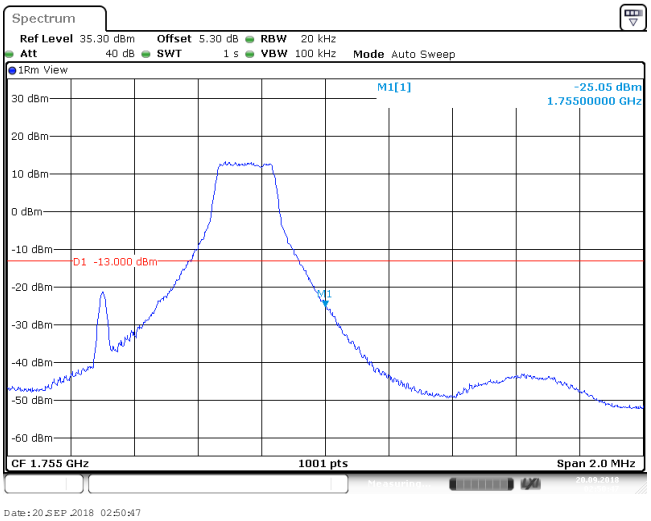
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_1.4MHz_16QAM_20393_1RB#0

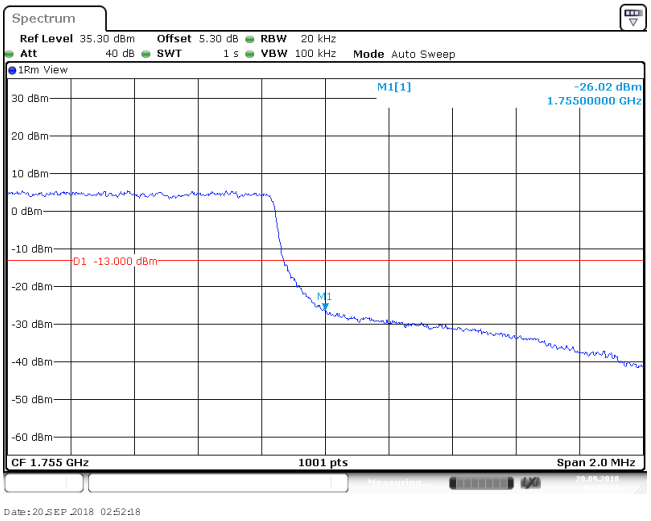


Band4_1.4MHz_16QAM_20393_1RB#5

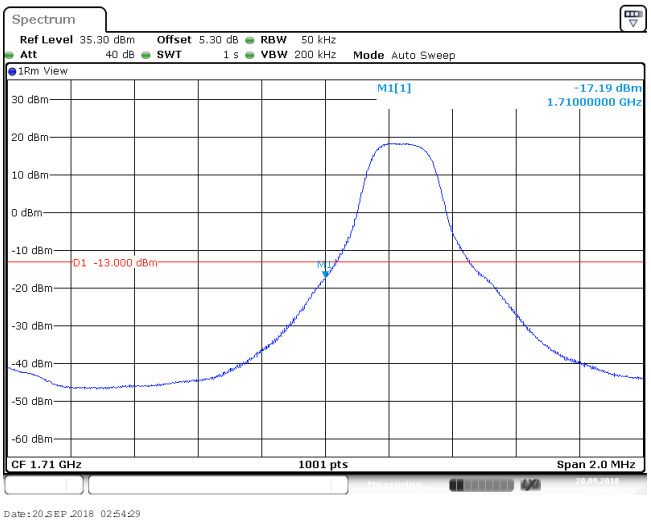


Band4_1.4MHz_16QAM_20393_6RB#0

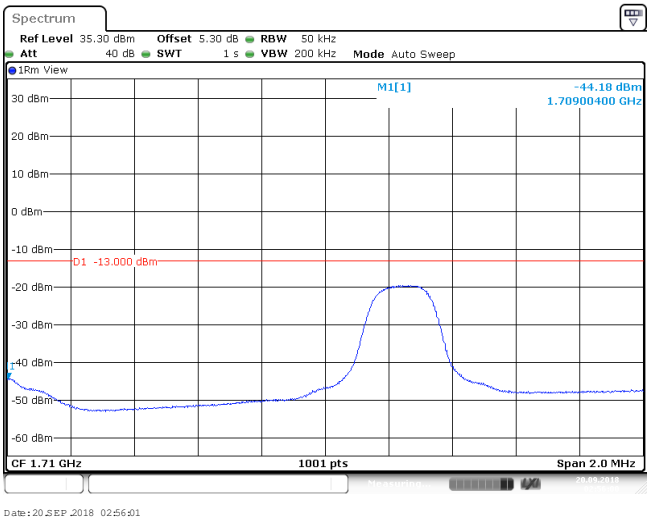
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_3MHz_QPSK_19965_1RB#0

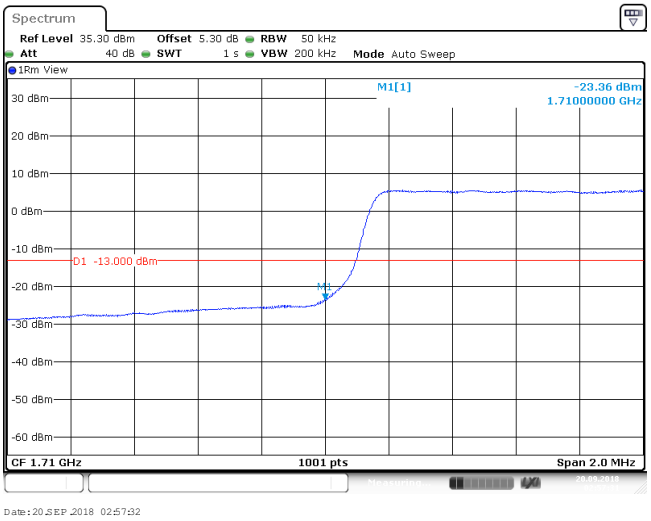


Band4_3MHz_QPSK_19965_1RB#14

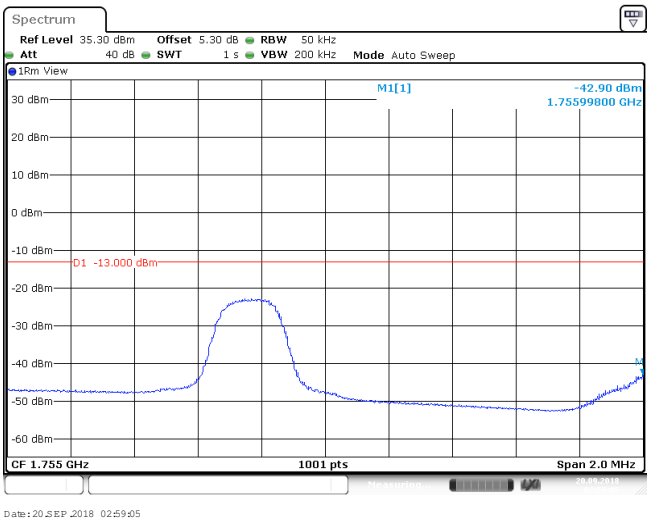


Band4_3MHz_QPSK_19965_15RB#0

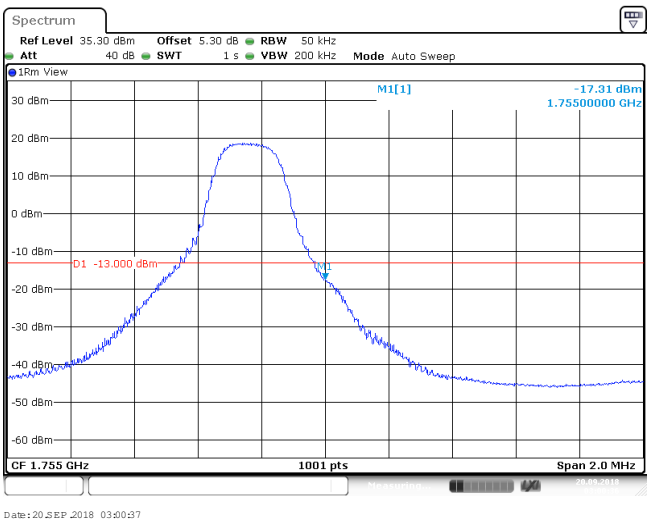
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_3MHz_QPSK_20385_1RB#0

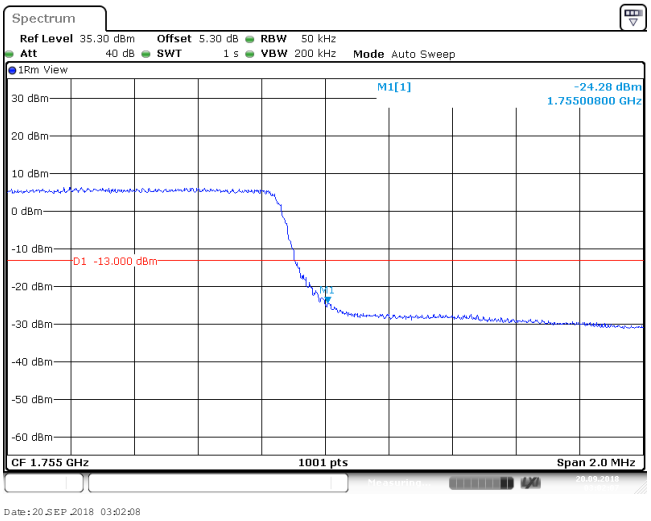


Band4_3MHz_QPSK_20385_1RB#14

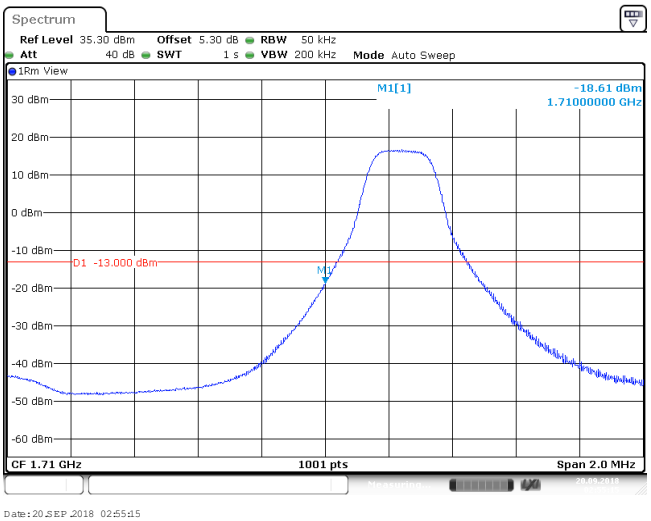


Band4_3MHz_QPSK_20385_15RB#0

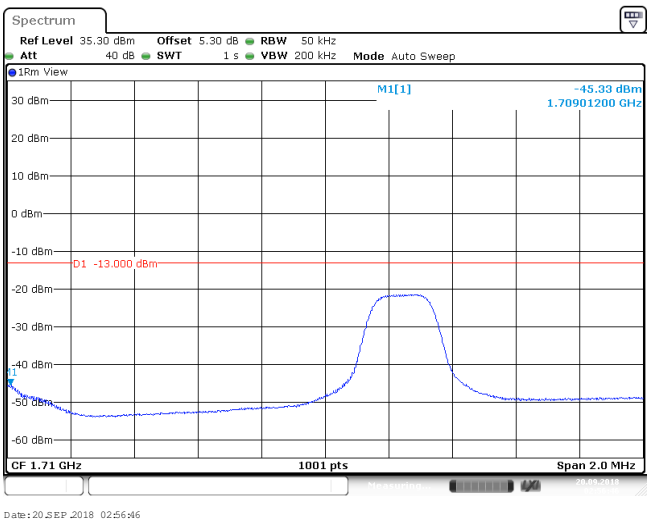
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_3MHz_16QAM_19965_1RB#0

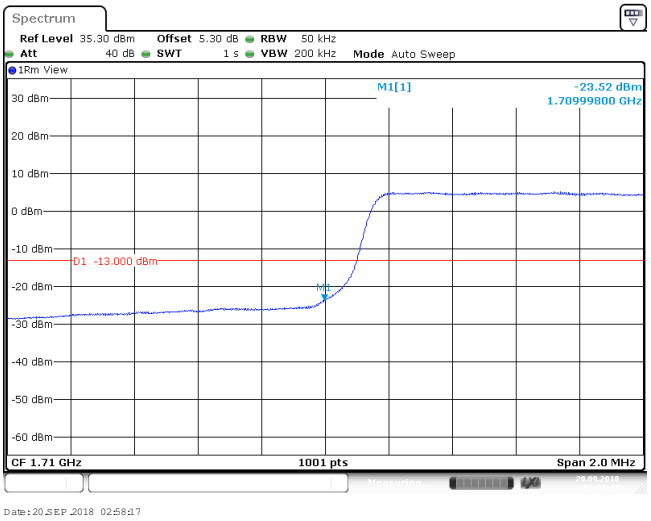


Band4_3MHz_16QAM_19965_1RB#14

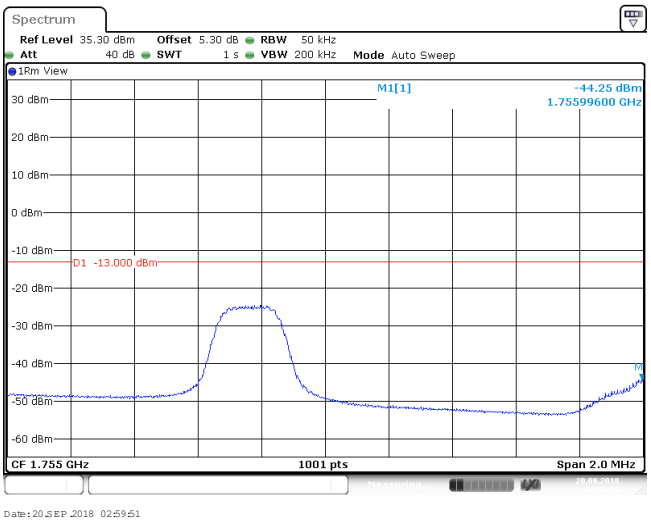


Band4_3MHz_16QAM_19965_15RB#0

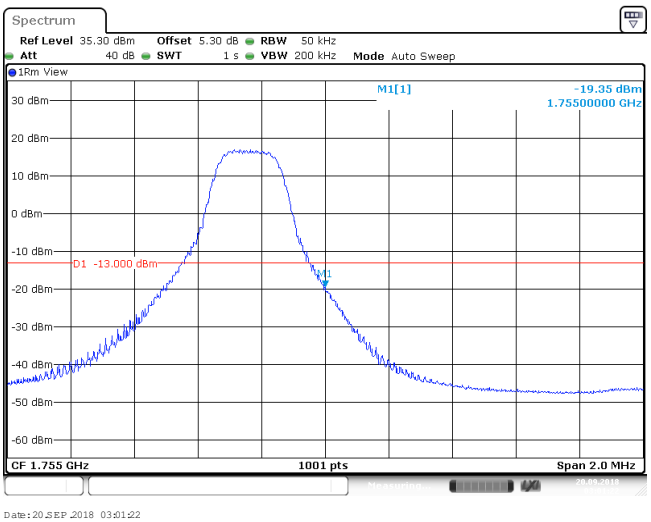
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_3MHz_16QAM_20385_1RB#0

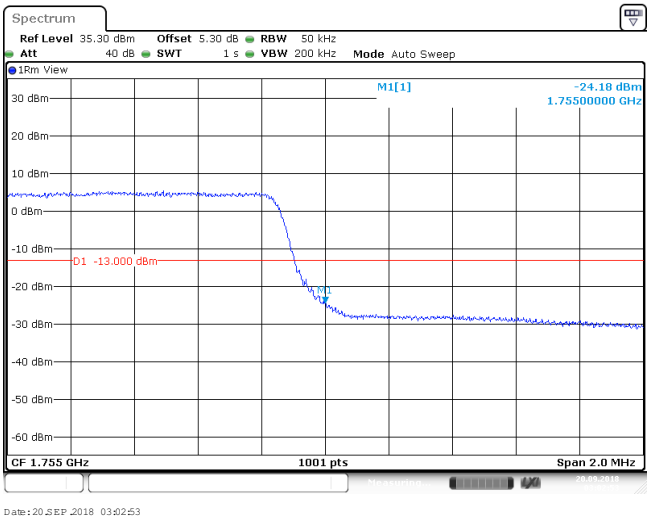


Band4_3MHz_16QAM_20385_1RB#14

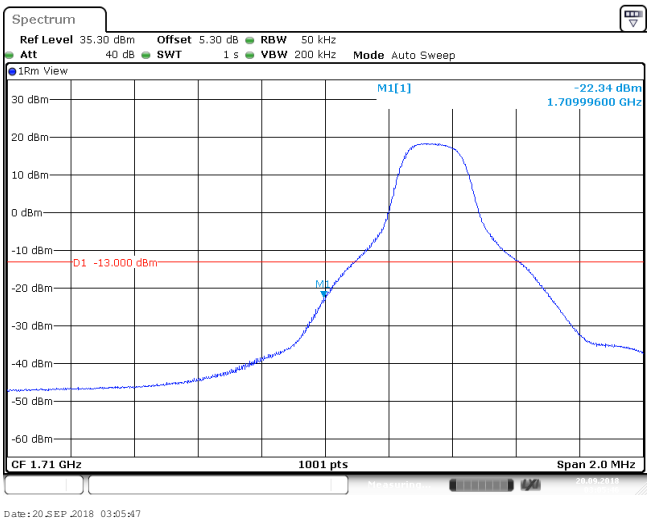


Band4_3MHz_16QAM_20385_15RB#0

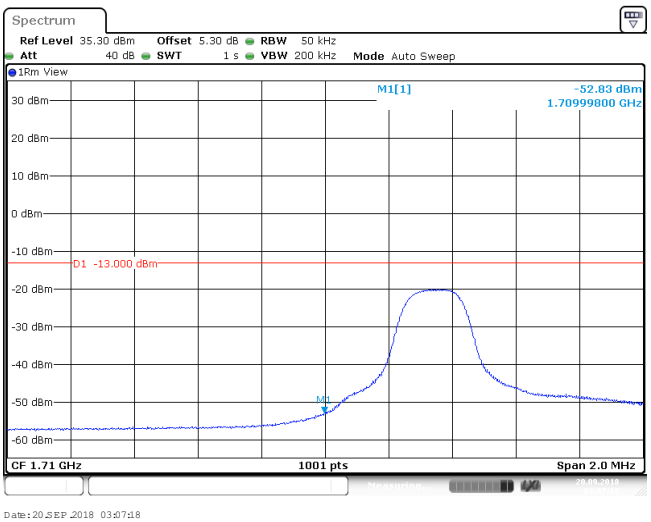
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_5MHz_QPSK_19975_1RB#0

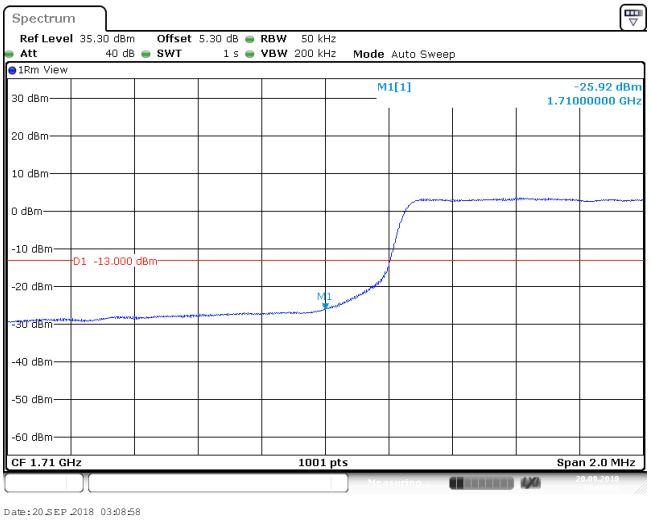


Band4_5MHz_QPSK_19975_1RB#24

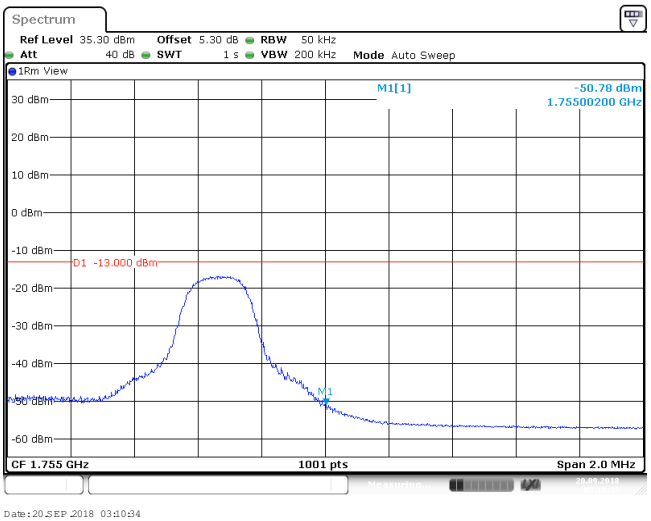


Band4_5MHz_QPSK_19975_25RB#0

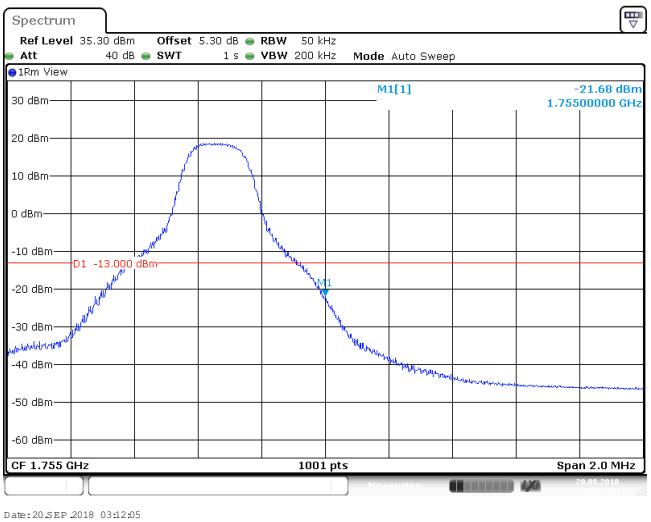
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_5MHz_QPSK_20375_1RB#0

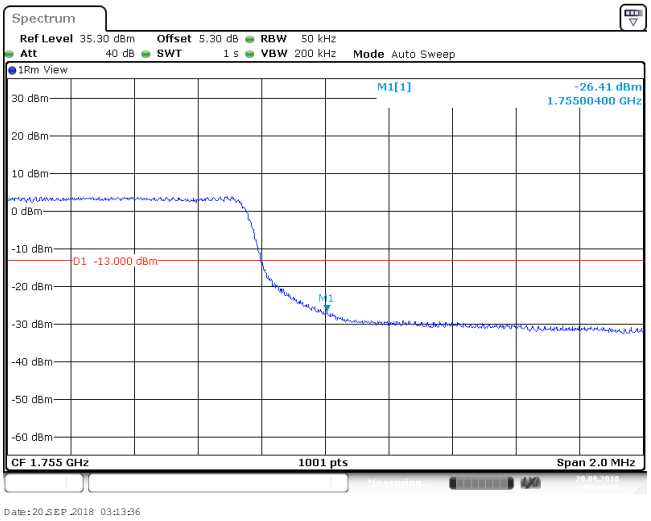


Band4_5MHz_QPSK_20375_1RB#24

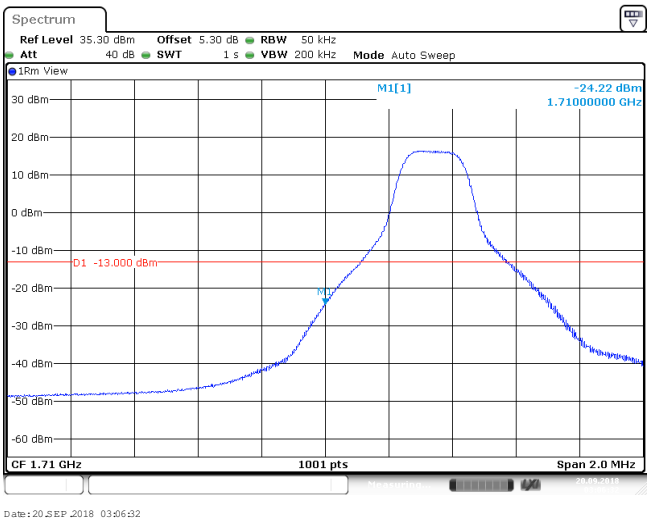


Band4_5MHz_QPSK_20375_25RB#0

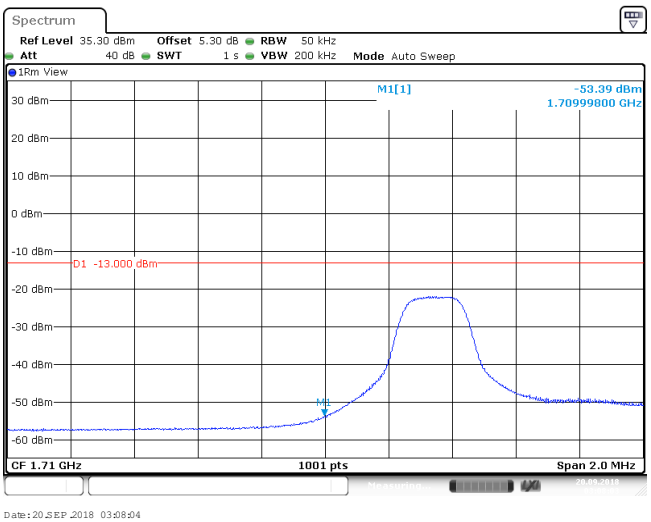
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_5MHz_16QAM_19975_1RB#0

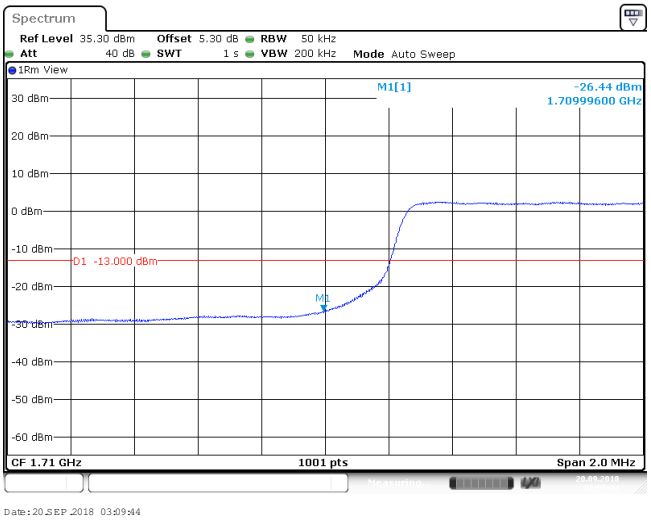


Band4_5MHz_16QAM_19975_1RB#24

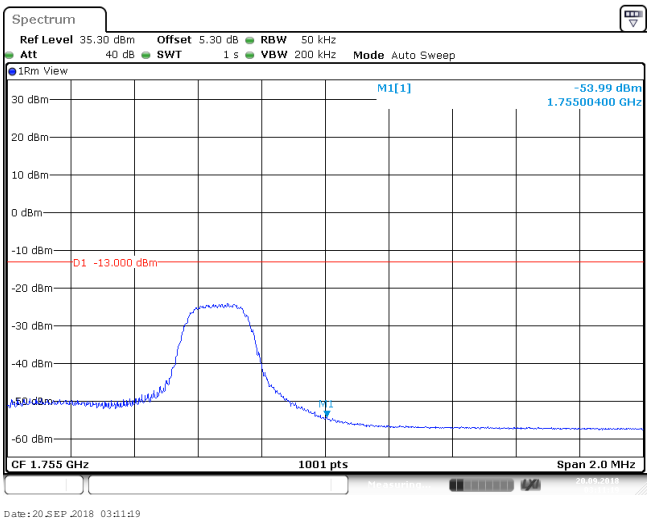


Band4_5MHz_16QAM_19975_25RB#0

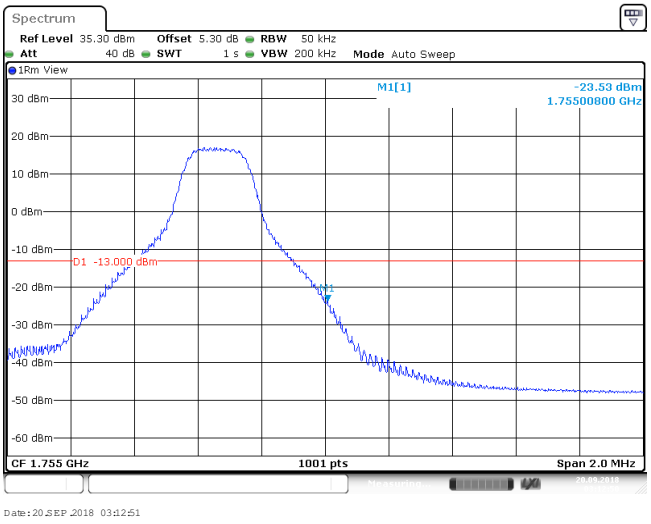
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_5MHz_16QAM_20375_1RB#0

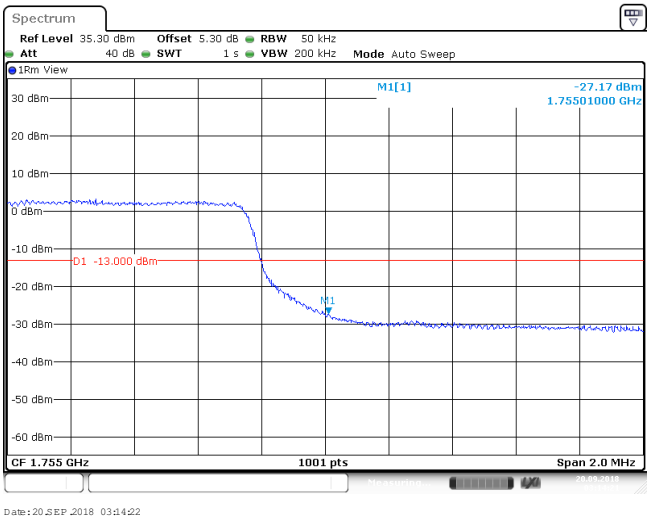


Band4_5MHz_16QAM_20375_1RB#24

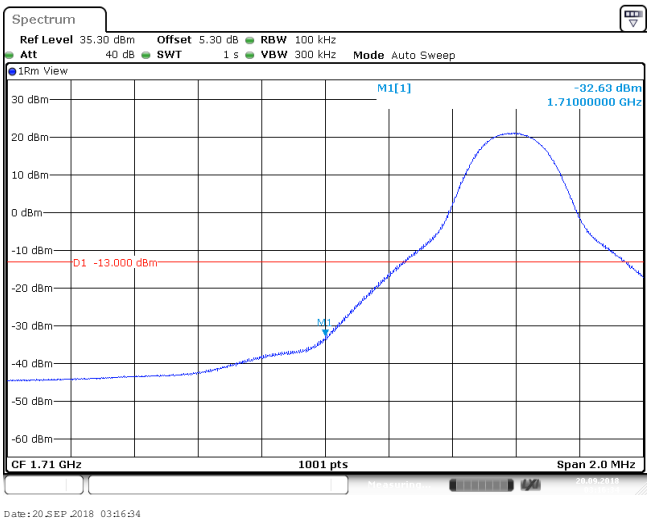


Band4_5MHz_16QAM_20375_25RB#0

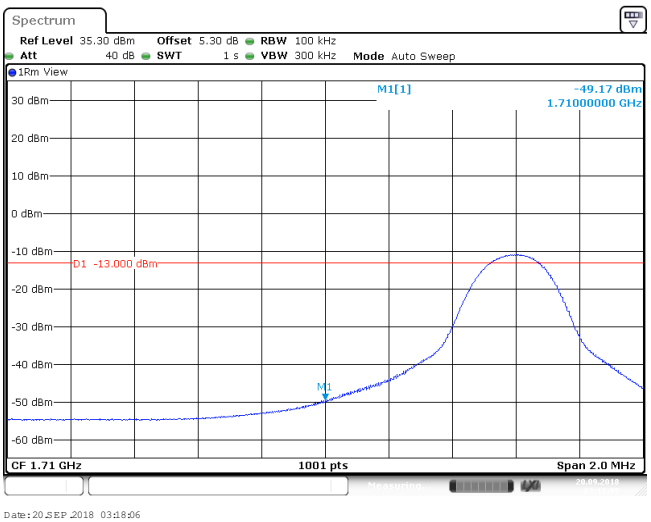
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_10MHz_QPSK_20000_1RB#0

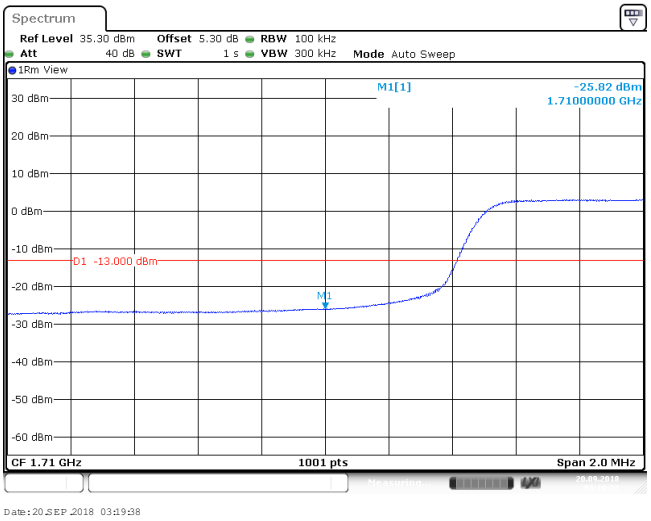


Band4_10MHz_QPSK_20000_1RB#49

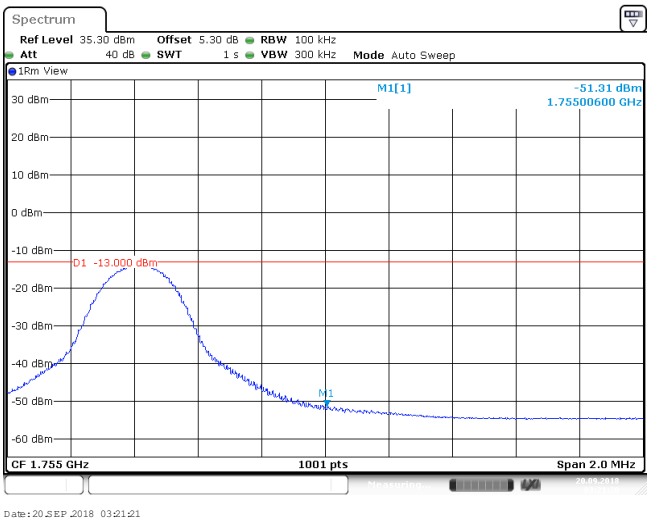


Band4_10MHz_QPSK_20000_50RB#0

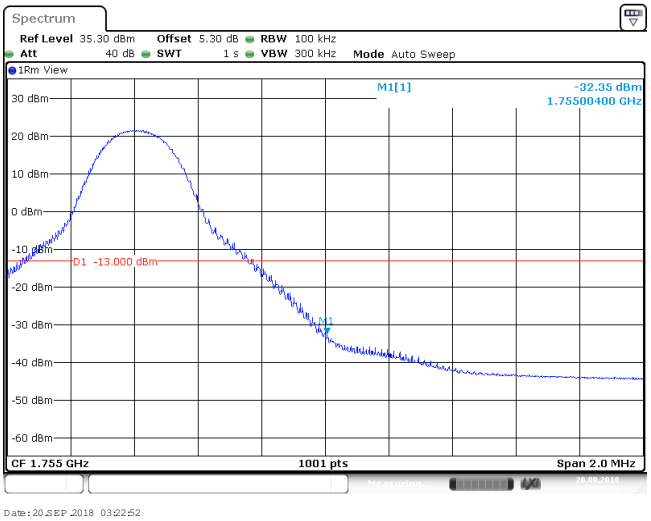
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_10MHz_QPSK_20350_1RB#0

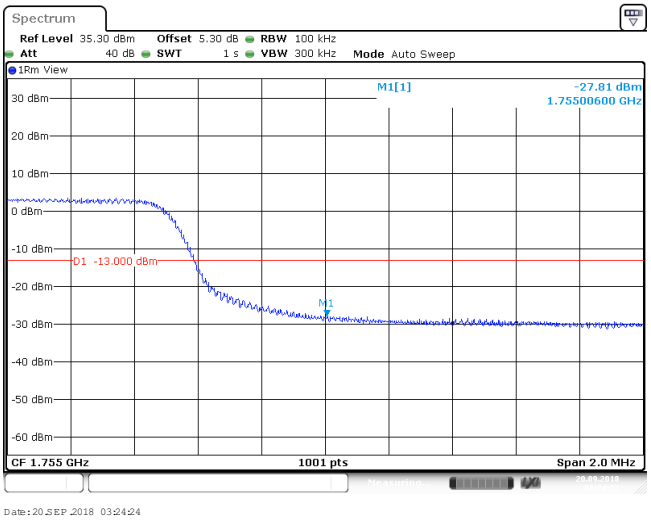


Band4_10MHz_QPSK_20350_1RB#49

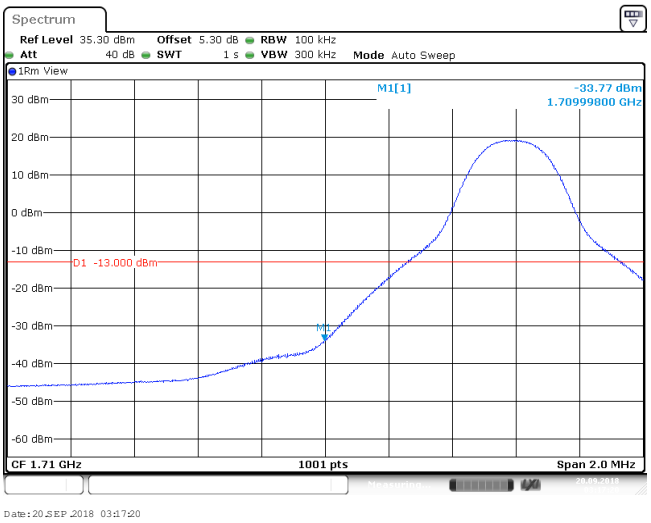


Band4_10MHz_QPSK_20350_50RB#0

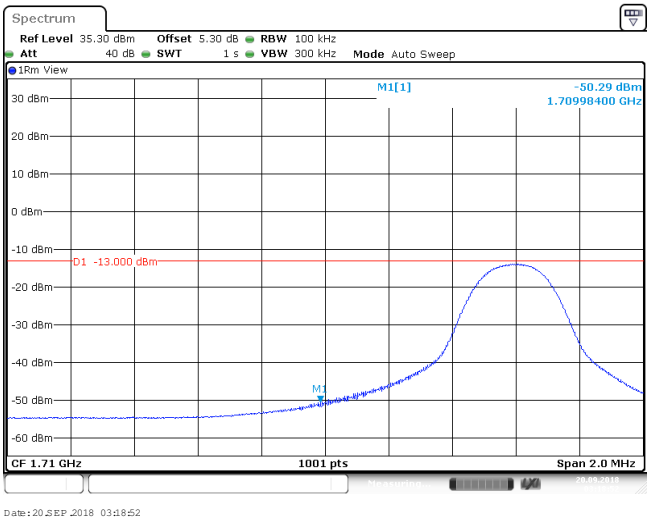
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_10MHz_16QAM_20000_1RB#0

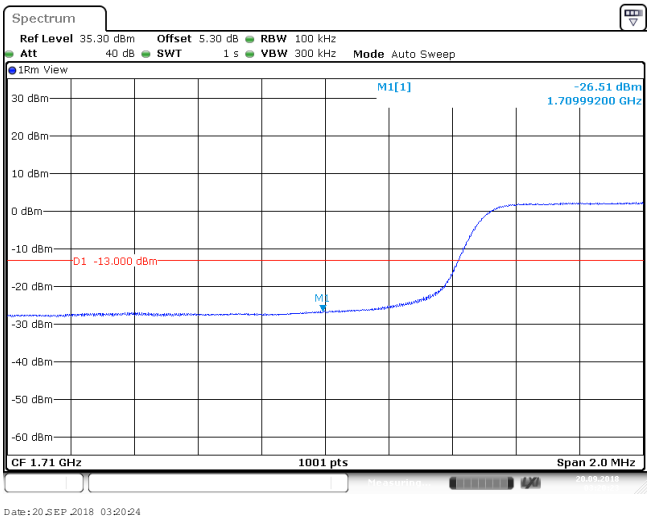


Band4_10MHz_16QAM_20000_1RB#49

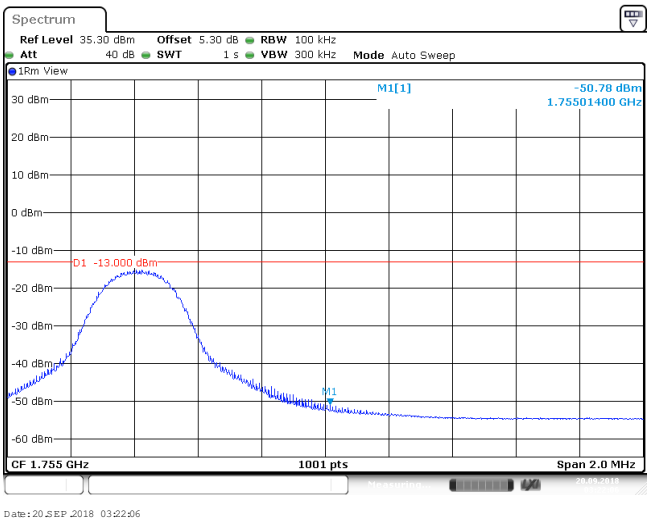


Band4_10MHz_16QAM_20000_50RB#0

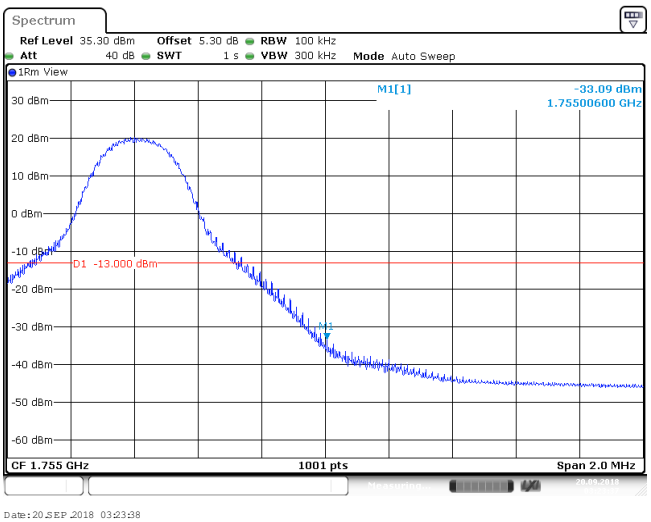
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_10MHz_16QAM_20350_1RB#0

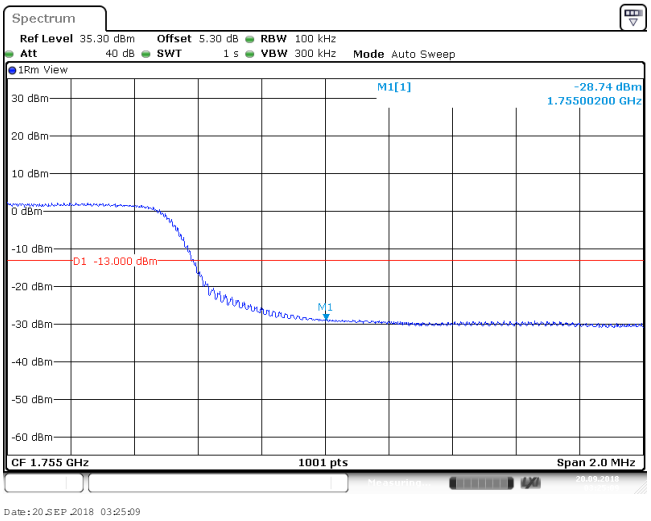


Band4_10MHz_16QAM_20350_1RB#49

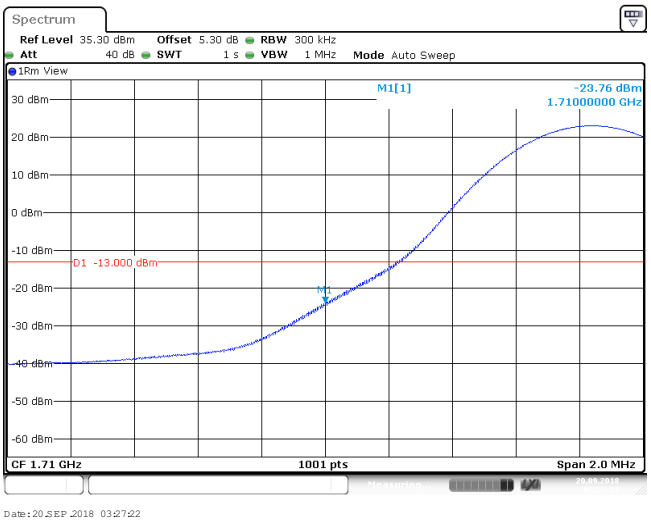


Band4_10MHz_16QAM_20350_50RB#0

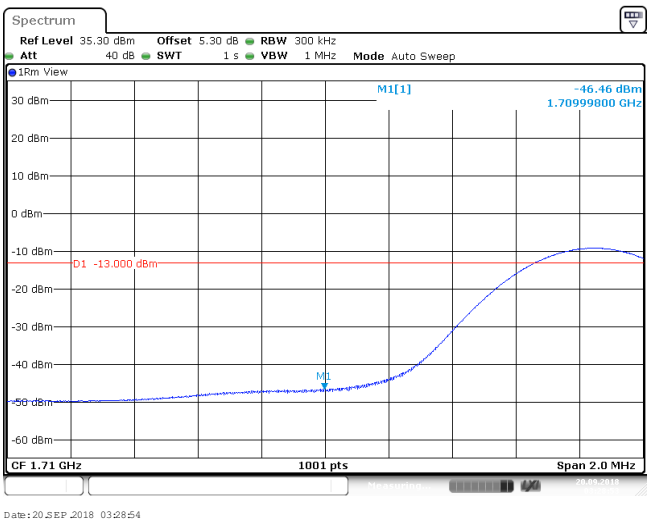
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_15MHz_QPSK_20025_1RB#0

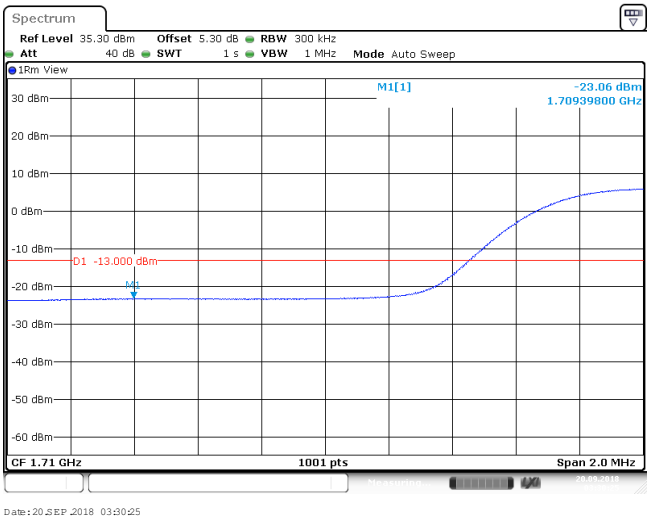


Band4_15MHz_QPSK_20025_1RB#74

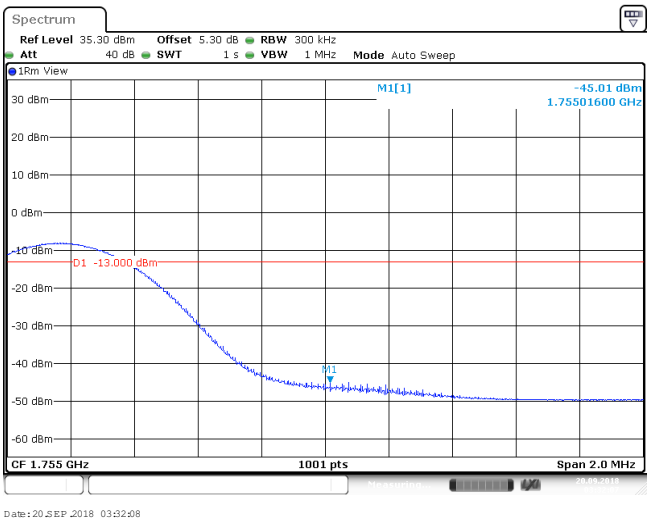


Band4_15MHz_QPSK_20025_75RB#0

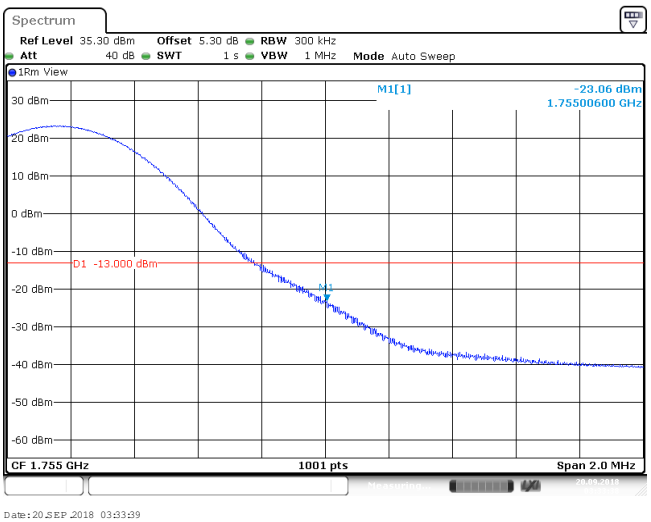
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_15MHz_QPSK_20325_1RB#0

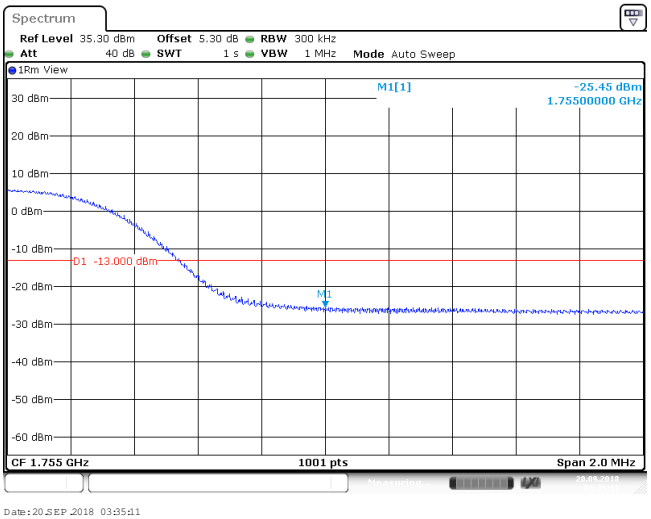


Band4_15MHz_QPSK_20325_1RB#74

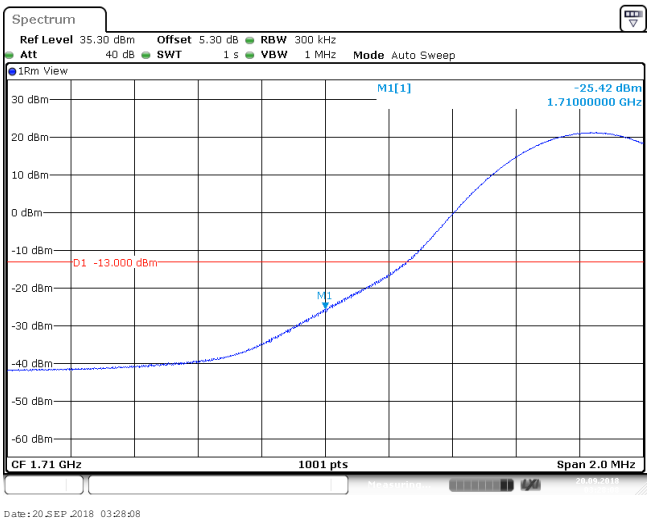


Band4_15MHz_QPSK_20325_75RB#0

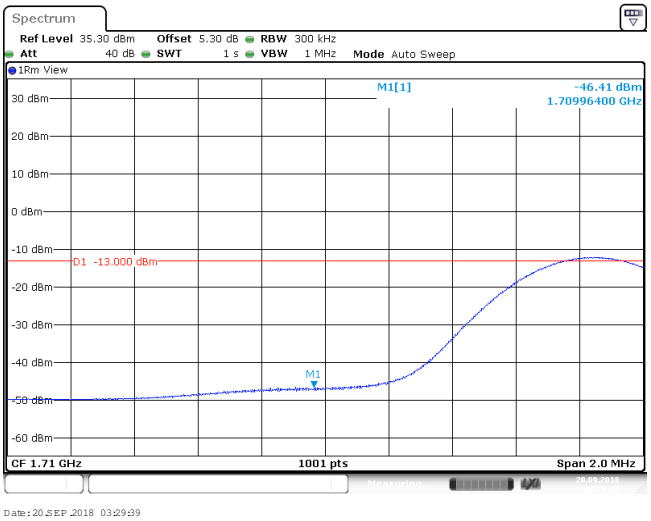
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_15MHz_16QAM_20025_1RB#0

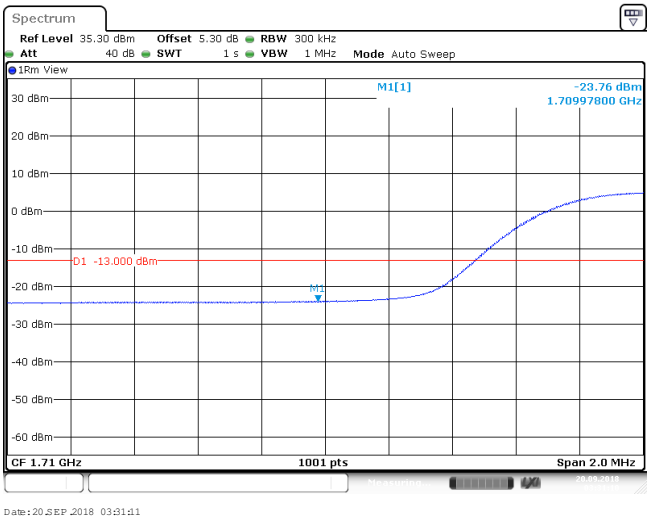


Band4_15MHz_16QAM_20025_1RB#74

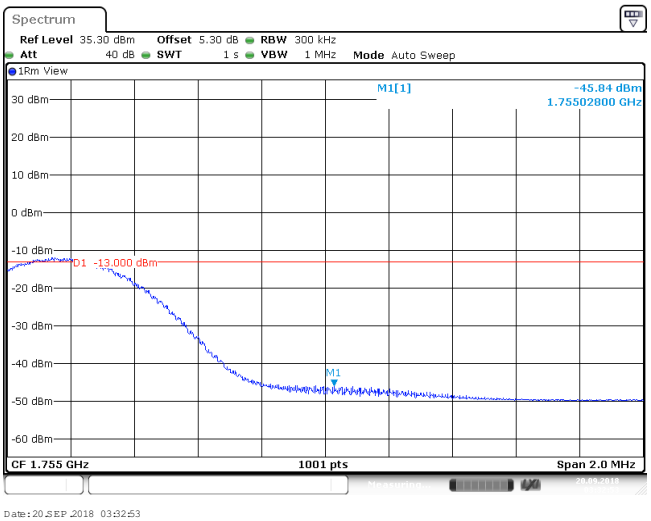


Band4_15MHz_16QAM_20025_75RB#0

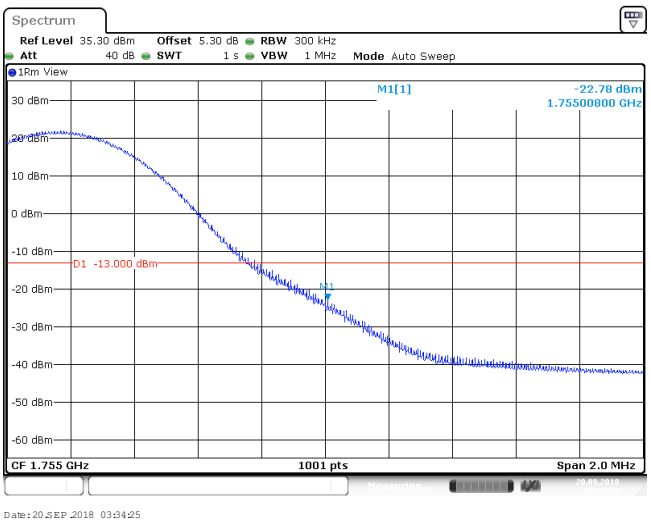
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_15MHz_16QAM_20325_1RB#0

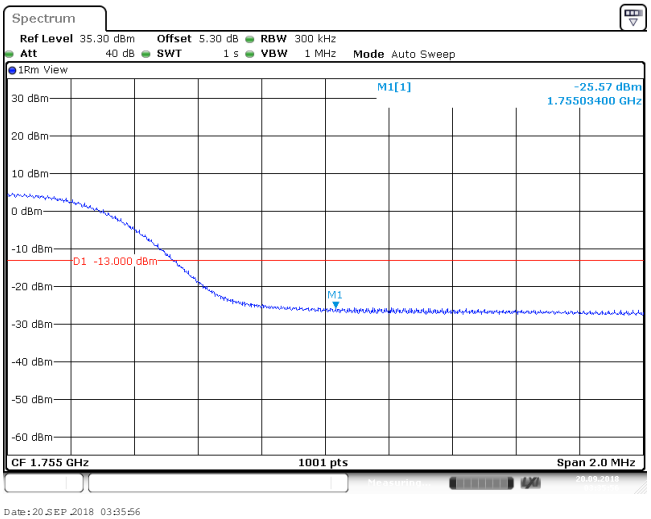


Band4_15MHz_16QAM_20325_1RB#74

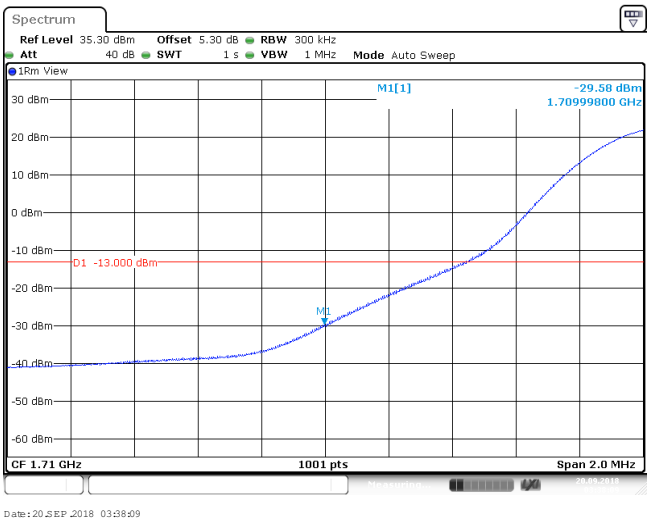


Band4_15MHz_16QAM_20325_75RB#0

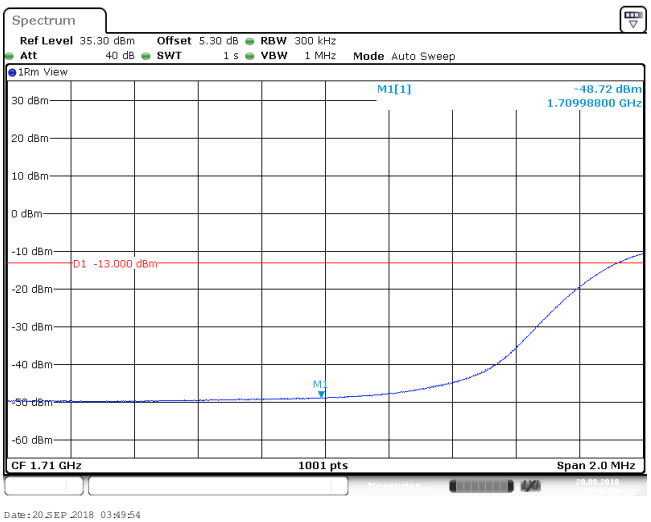
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_QPSK_20050_1RB#0

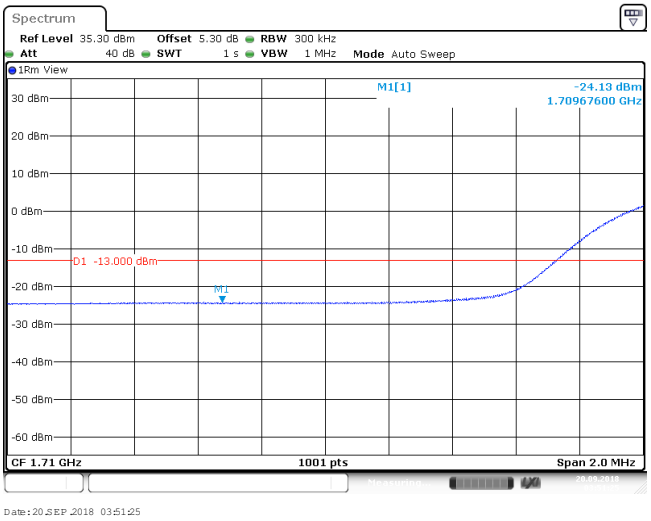


Band4_20MHz_QPSK_20050_1RB#99

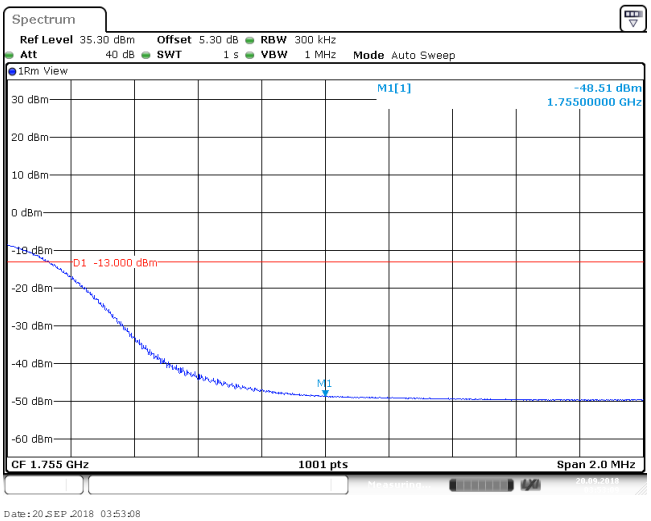


Band4_20MHz_QPSK_20050_100RB#0

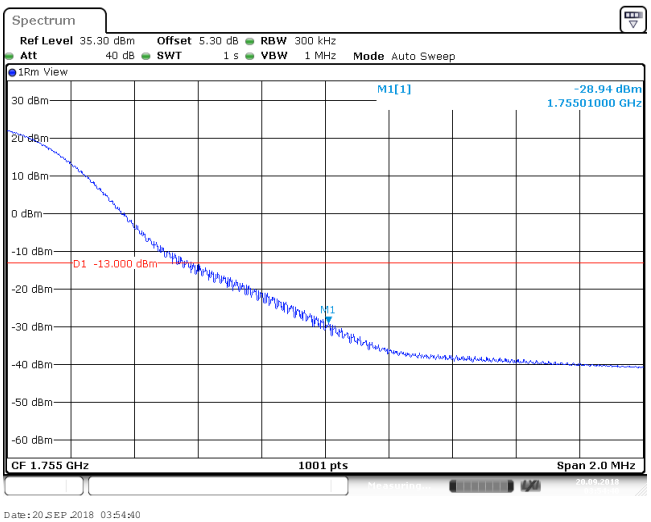
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_QPSK_20300_1RB#0

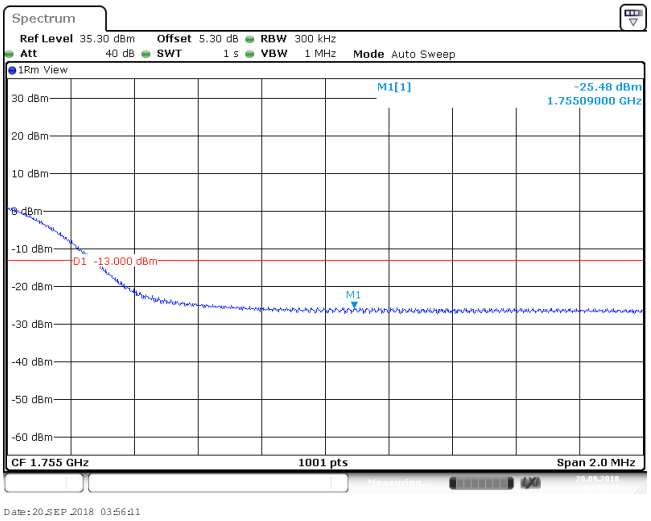


Band4_20MHz_QPSK_20300_1RB#99

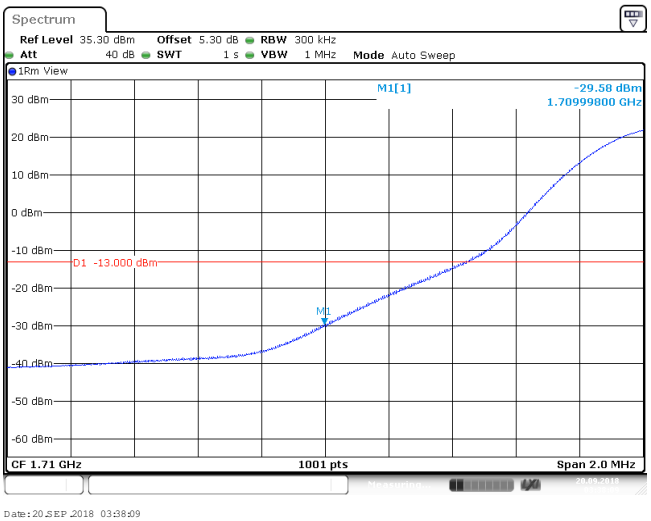


Band4_20MHz_QPSK_20300_100RB#0

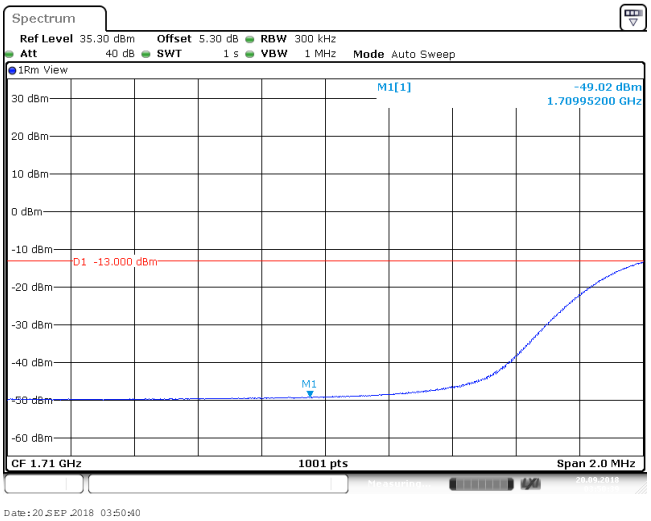
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_16QAM_20050_1RB#0

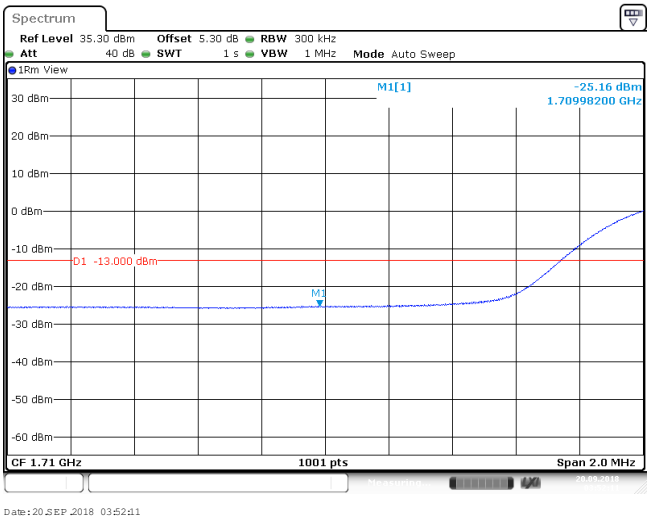


Band4_20MHz_16QAM_20050_1RB#99

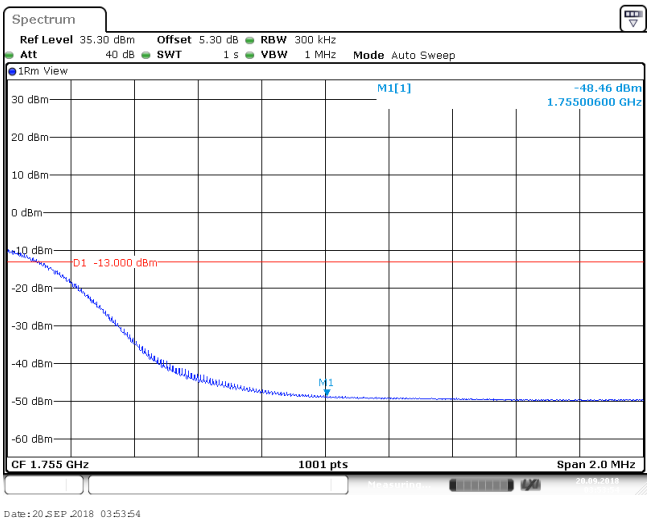


Band4_20MHz_16QAM_20050_100RB#0

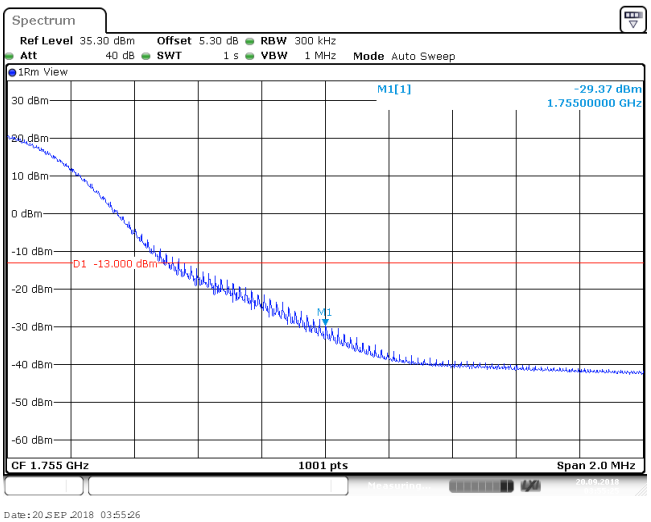
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_16QAM_20300_1RB#0

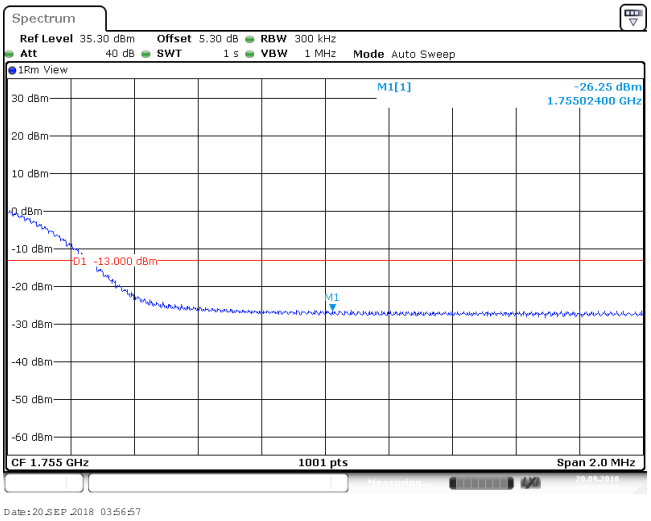


Band4_20MHz_16QAM_20300_1RB#99



Band4_20MHz_16QAM_20300_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.



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.

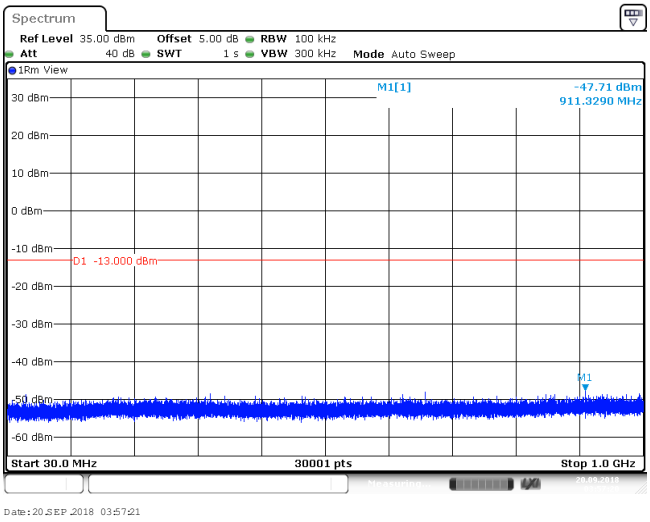
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

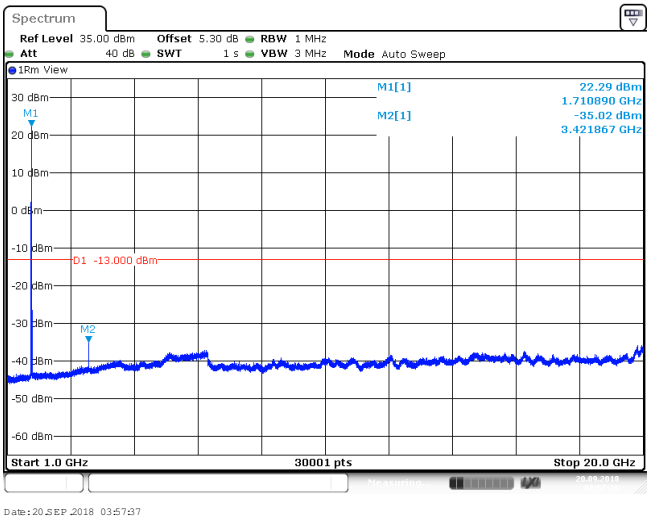
Remark2: only the worst case data displayed in this report.

6.1.Test Plots

Band4_20MHz_QPSK_20050_1RB#0

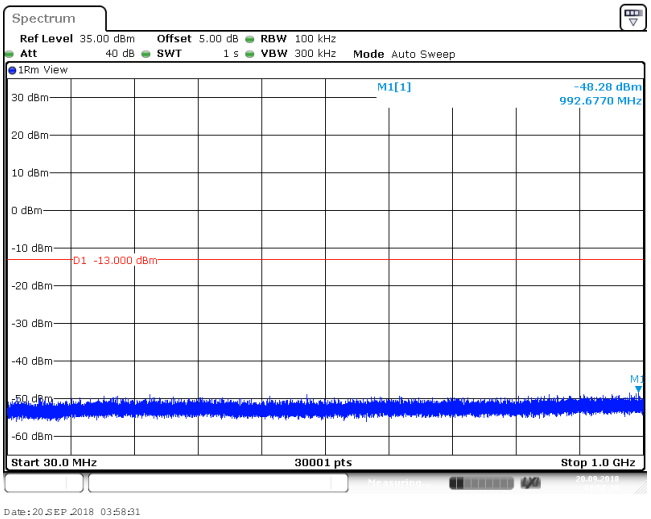


Band4_20MHz_QPSK_20050_1RB#0

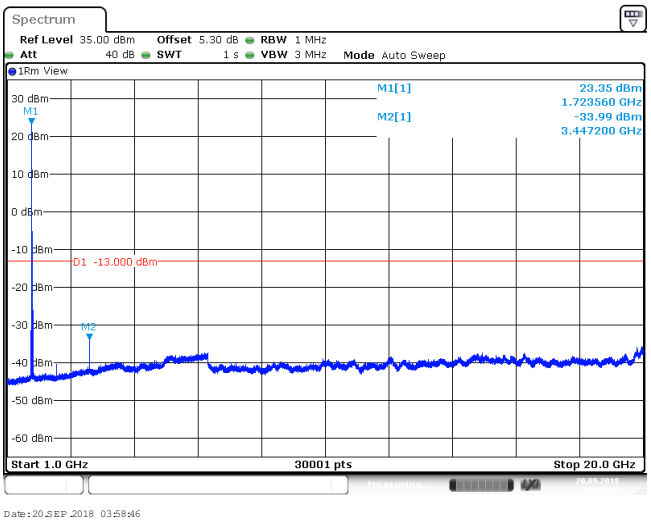


Band4_20MHz_QPSK_20175_1RB#0

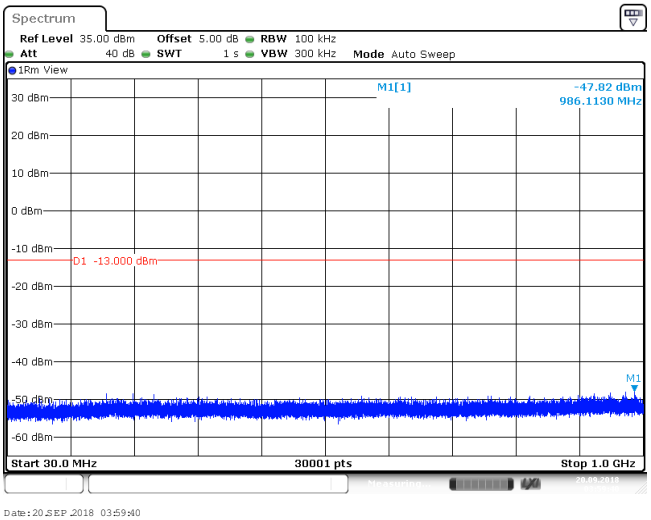
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_QPSK_20175_1RB#0

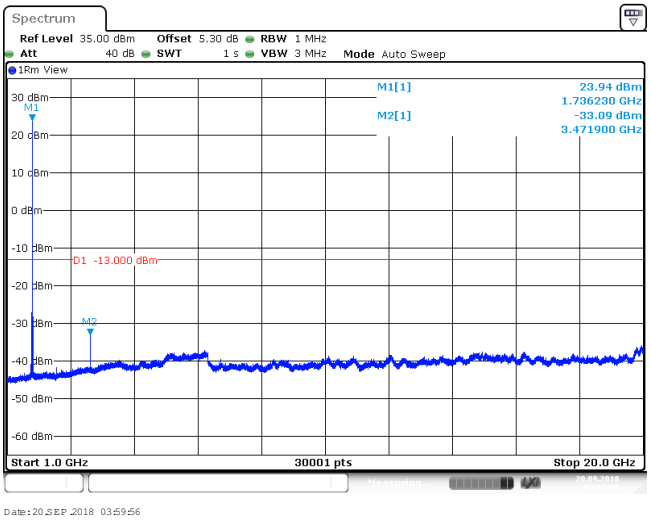


Band4_20MHz_QPSK_20300_1RB#0

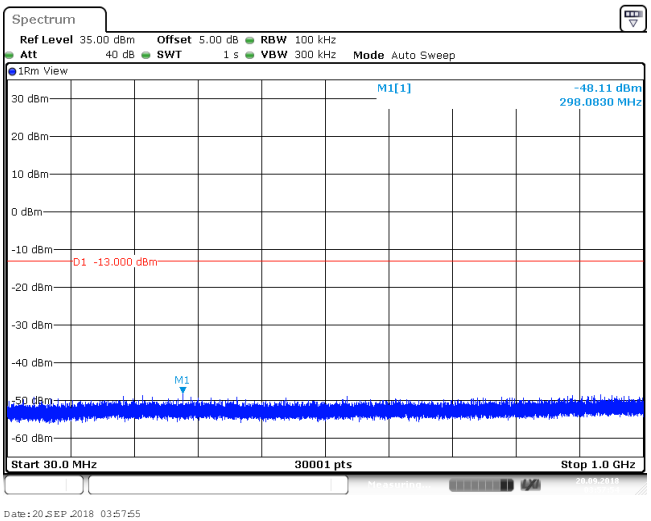


Band4_20MHz_QPSK_20300_1RB#0

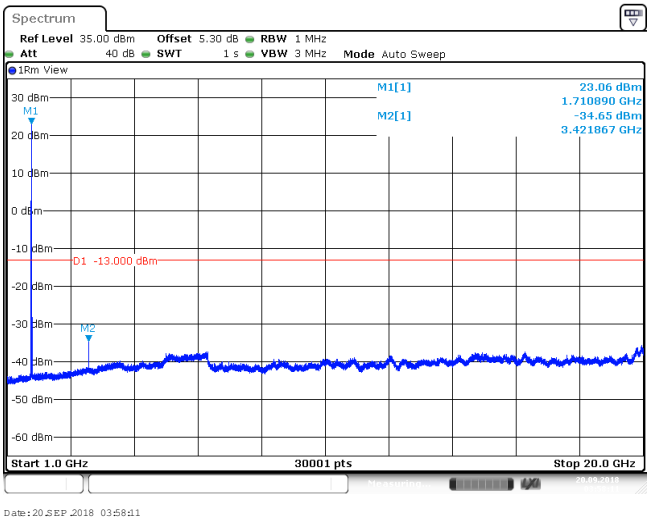
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_16QAM_20050_1RB#0

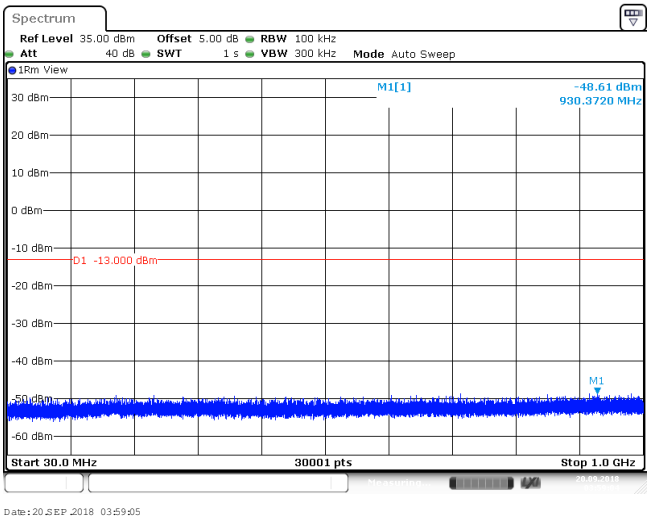


Band4_20MHz_16QAM_20050_1RB#0

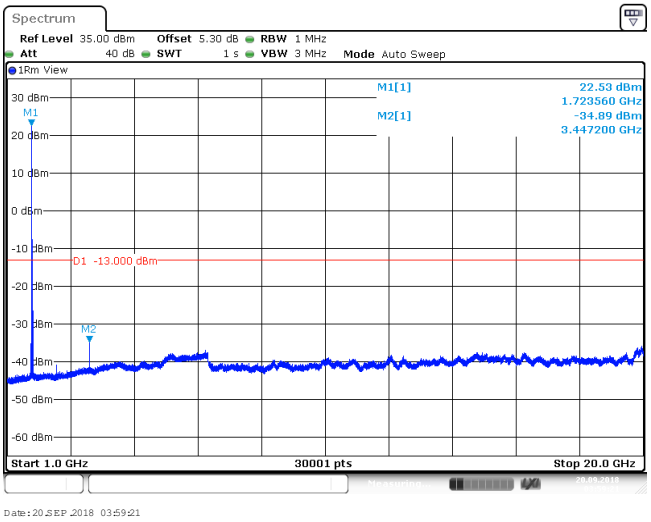


Band4_20MHz_16QAM_20175_1RB#0

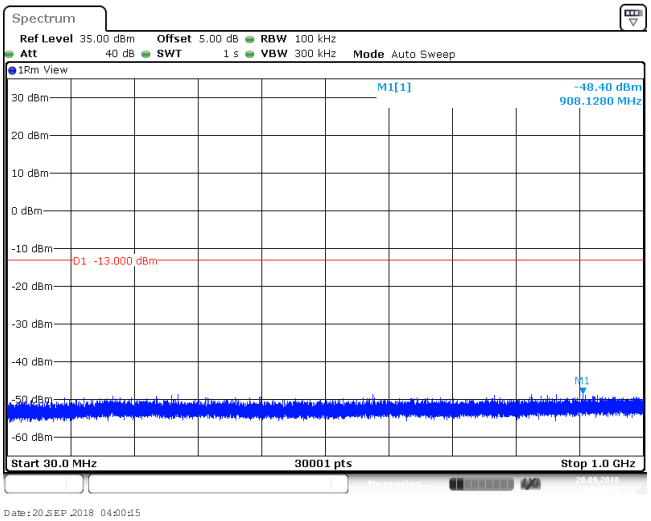
This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx.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



Band4_20MHz_16QAM_20175_1RB#0

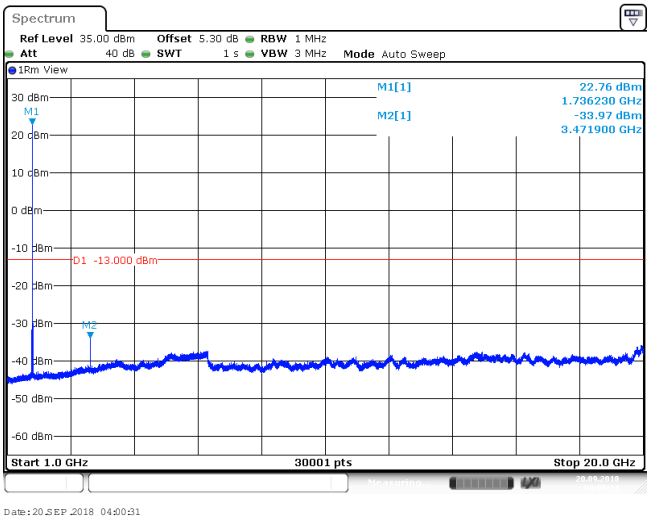


Band4_20MHz_16QAM_20300_1RB#0



Band4_20MHz_16QAM_20300_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-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.



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.

7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 4

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.900000	-76.87	-13.00	63.87	Vertical
144.000000	-73.19	-13.00	60.19	Vertical
288.000000	-77.24	-13.00	64.24	Vertical
3421.850000	-50.83	-13.00	37.83	Vertical
5132.975000	-64.41	-13.00	51.41	Vertical
8555.225000	-60.08	-13.00	47.08	Vertical
62.700000	-77.38	-13.00	64.38	Horizontal
144.000000	-72.33	-13.00	59.33	Horizontal
288.000000	-78.53	-13.00	65.53	Horizontal
3422.175000	-55.36	-13.00	42.36	Horizontal
5132.975000	-63.64	-13.00	50.64	Horizontal
8555.550000	-55.68	-13.00	42.68	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.650000	-77.61	-13.00	64.61	Vertical
288.000000	-77.69	-13.00	64.69	Vertical
789.900000	-79.63	-13.00	66.63	Vertical
3446.875000	-48.94	-13.00	35.94	Vertical
5170.675000	-63.81	-13.00	50.81	Vertical
8617.950000	-59.53	-13.00	46.53	Vertical
62.500000	-77.27	-13.00	64.27	Horizontal
144.000000	-73.34	-13.00	60.34	Horizontal
288.000000	-78.68	-13.00	65.68	Horizontal
3455.975000	-50.73	-13.00	37.73	Horizontal

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.

8640.375000	-61.29	-13.00	48.29	Horizontal
12096.750000	-60.28	-13.00	47.28	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.450000	-77.47	-13.00	64.47	Vertical
144.000000	-73.45	-13.00	60.45	Vertical
288.000000	-77.44	-13.00	64.44	Vertical
3471.900000	-45.15	-13.00	32.15	Vertical
8680.350000	-59.19	-13.00	46.19	Vertical
12152.975000	-56.03	-13.00	43.03	Vertical
63.400000	-77.17	-13.00	64.17	Horizontal
144.000000	-72.14	-13.00	59.14	Horizontal
288.000000	-78.74	-13.00	65.74	Horizontal
3471.900000	-47.25	-13.00	34.25	Horizontal
5208.050000	-63.39	-13.00	50.39	Horizontal
8680.350000	-55.94	-13.00	42.94	Horizontal

Remark:

1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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.

8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	0.80	0.000465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	0.70	0.000407	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	2.30	0.001337	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.60	0.000346	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.00	0.000577	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	2.70	0.001570	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	1.50	0.000872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	1.00	0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-1.10	-0.000635	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-2.50	-0.001433	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	2.50	0.001453	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	0.60	0.000349	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	0.70	0.000407	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	0.50	0.000291	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	0.70	0.000407	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	2.20	0.001279	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	2.70	0.001570	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	3.50	0.002035	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.90	0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	0.70	0.000404	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.80	-0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.60	-0.000346	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-4.40	-0.002521	±2.5	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.

Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-1.20	-0.000688	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	2.30	0.001337	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	1.40	0.000814	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	0.50	0.000291	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	1.70	0.000988	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	1.90	0.001105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	2.50	0.001453	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	0.30	0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	0.40	0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.20	0.000115	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	1.00	0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	2.30	0.001328	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	1.60	0.000924	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-1.30	-0.000745	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-2.20	-0.001261	±2.5	PASS

The End

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.