



Appendix B

WCDMA Band II & V



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

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



CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1. TEST RESULT.....	4
2. PEAK-TO-AVERAGE RATIO(CCDF).....	5
2.1. TEST RESULT.....	5
2.2. TEST PLOTS	5
3. MODULATION CHARACTERISTICS.....	9
3.1. TEST BAND = WCDMA BAND II	9
3.1.1. TEST MODE = UMTS/TM1	9
3.1.1.1. TEST CHANNEL = MCH	9
3.2. TEST BAND = WCDMA BAND V.....	10
3.2.1.1. TEST CHANNEL = MCH	10
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	11
4.1. TEST RESULT.....	11
4.2. TEST PLOTS	11
5. BAND EDGE COMPLIANCE	15
5.1. TEST RESULT.....	15
5.2. TEST PLOTS	15
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	18
6.1. TEST PLOTS	18
7. FIELD STRENGTH OF SPURIOUS RADIATION	25
7.1. TEST BAND = WCDMA BAND II	25
7.1.1. TEST MODE =WCDMA/TM1	25
7.1.1.1. TEST CHANNEL = LCH	25
7.1.1.2. TEST CHANNEL = MCH	25
7.1.1.3. TEST CHANNEL = HCH	25
7.2. TEST BAND = WCDMA BAND V.....	26
7.2.1. TEST MODE =WCDMA/TM1	26
7.2.1.1. TEST CHANNEL = LCH	26



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

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

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

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



7.2.1.2.	TEST CHANNEL = MCH	27
7.2.1.3.	TEST CHANNEL = HCH	27
8.	FREQUENCY STABILITY	28
8.1.	FREQUENCY Vs VOLTAGE	28
8.2.	FREQUENCY Vs TEMPERATURE	28



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

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



1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	23.23	23.93	33	PASS
Band2	9400	23.18	23.88	33	PASS
Band2	9538	23.23	23.93	33	PASS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band5	4132	23.77	21.52	38.45	PASS
Band5	4182	23.83	21.58	38.45	PASS
Band5	4233	23.94	21.69	38.45	PASS

Remark:

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

$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$

$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$



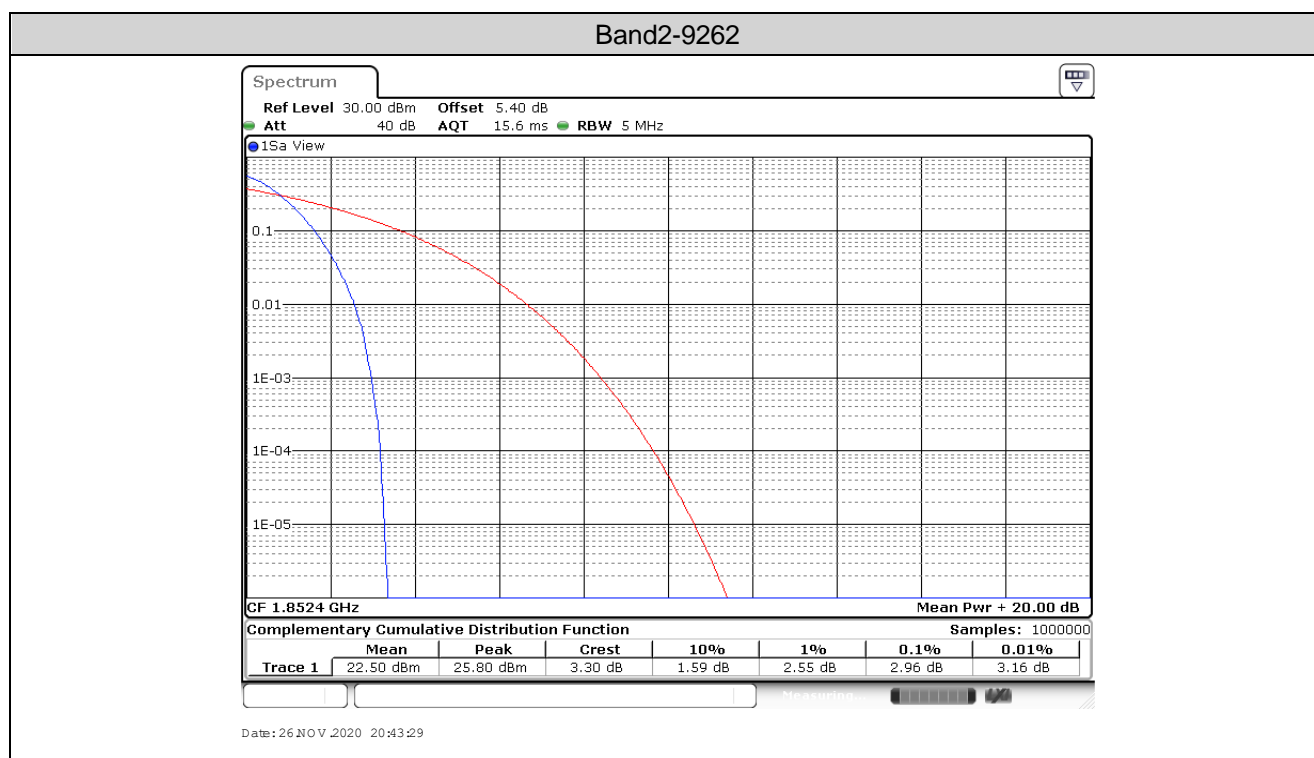


2. Peak-to-Average Ratio(CCDF)

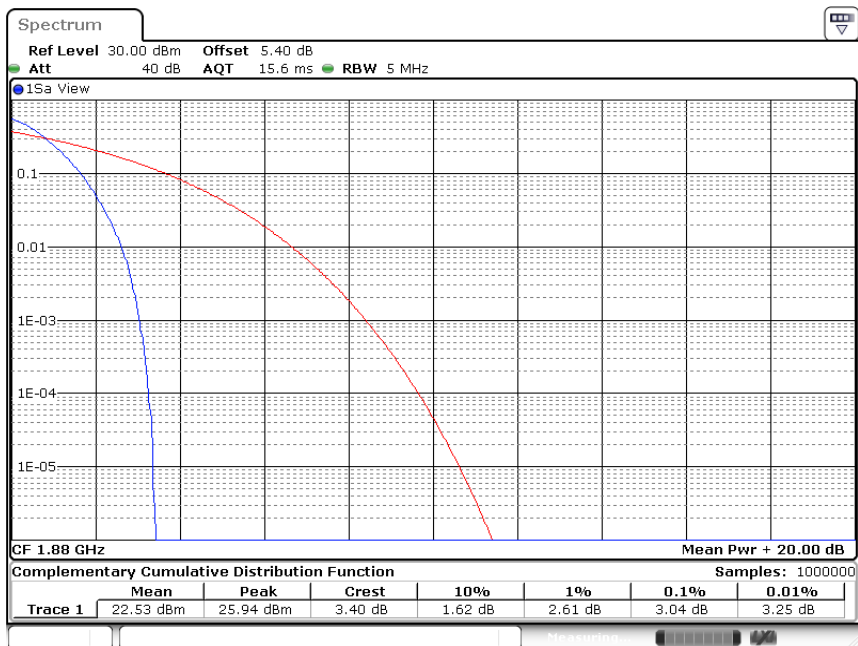
2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.96	13	PASS
Band2	9400	3.04	13	PASS
Band2	9538	2.99	13	PASS
Band5	4132	3.13	13	PASS
Band5	4182	2.99	13	PASS
Band5	4233	3.07	13	PASS

2.2. Test Plots

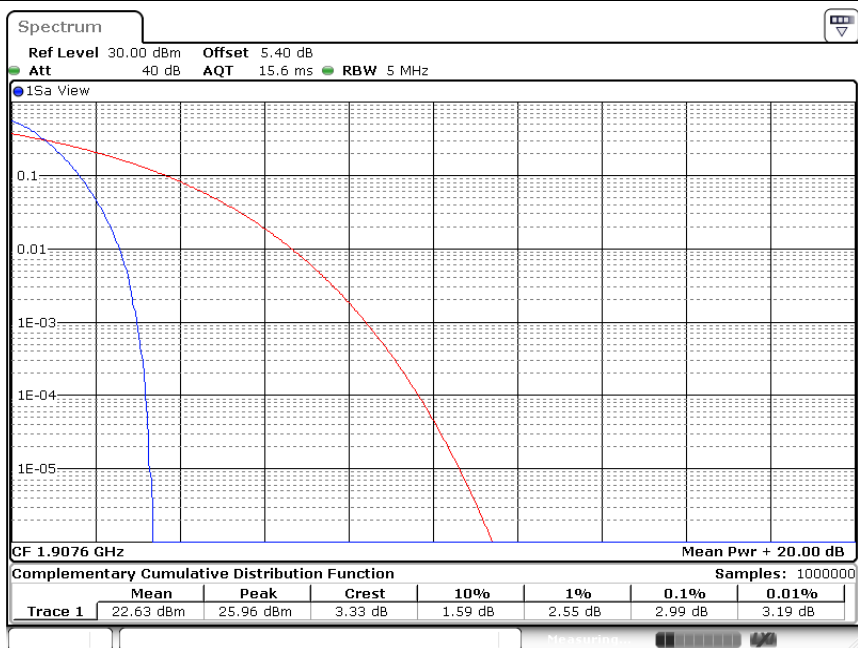


Band2-9400



Date: 26 NOV 2020 20:43:44

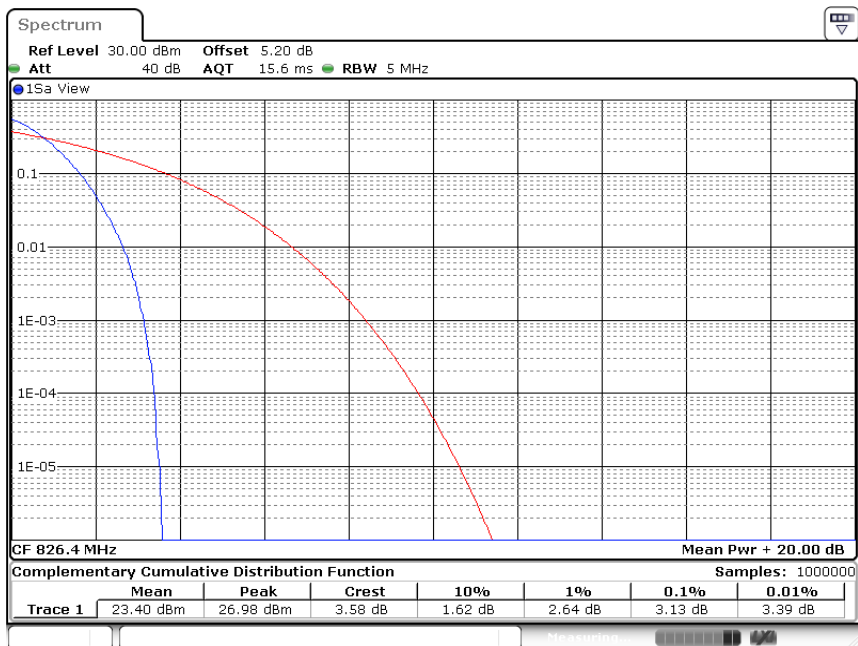
Band2-9538



Date: 26 NOV 2020 20:43:59

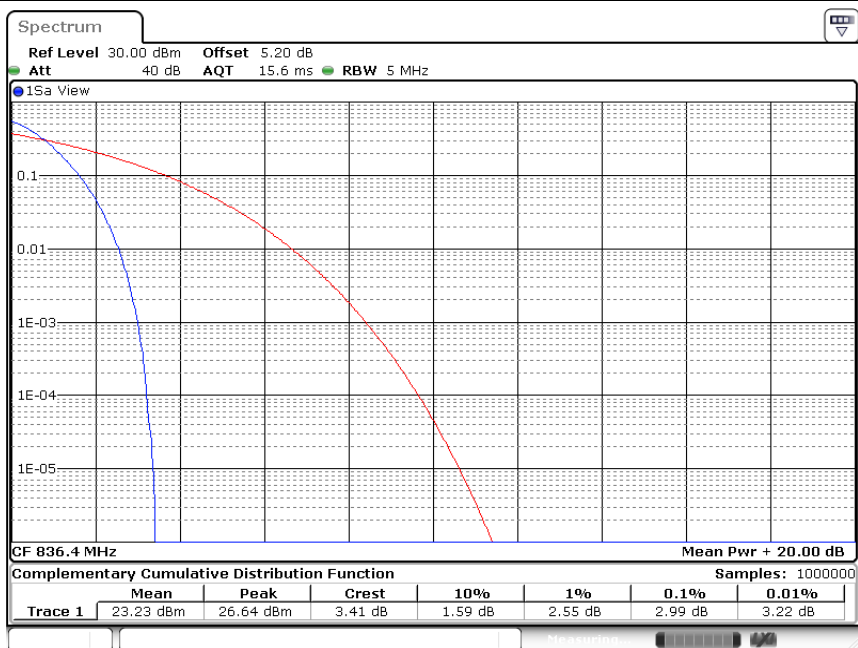


Band5-4132



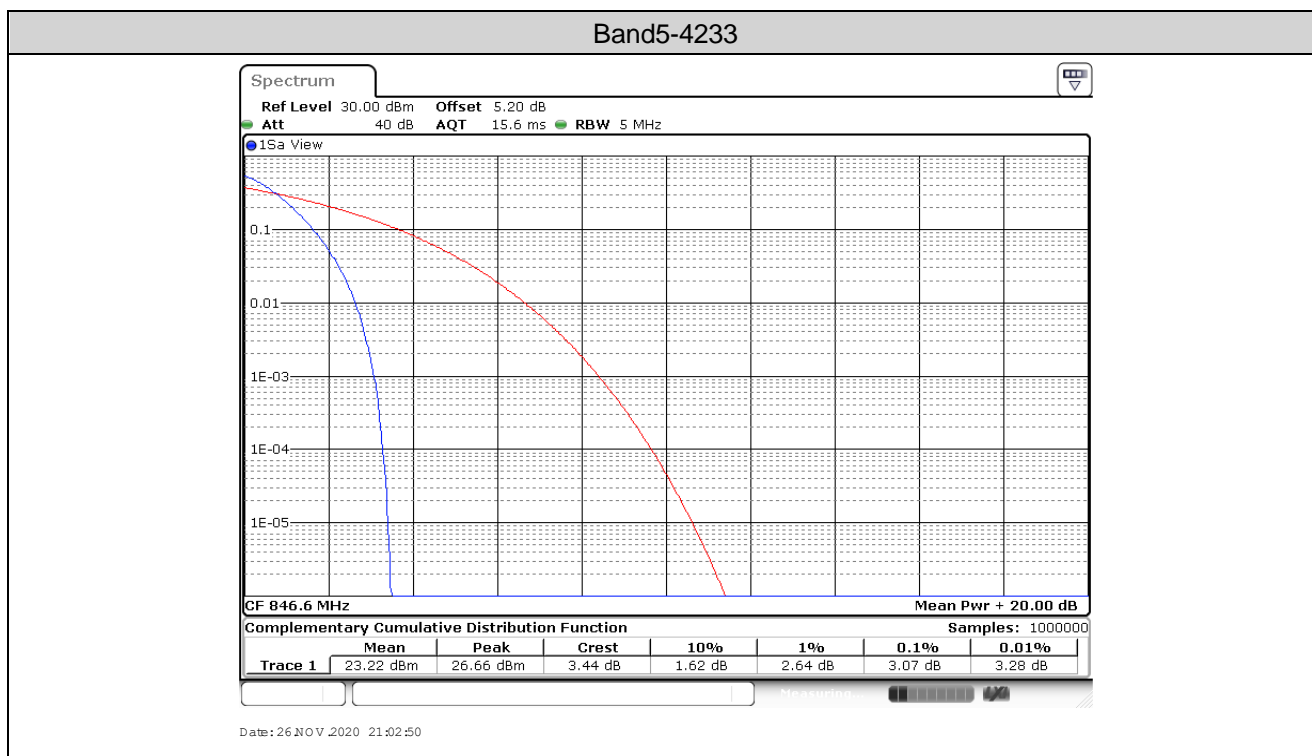
Date: 26 NOV 2020 21:02:20

Band5-4182



Date: 26 NOV 2020 21:02:35





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

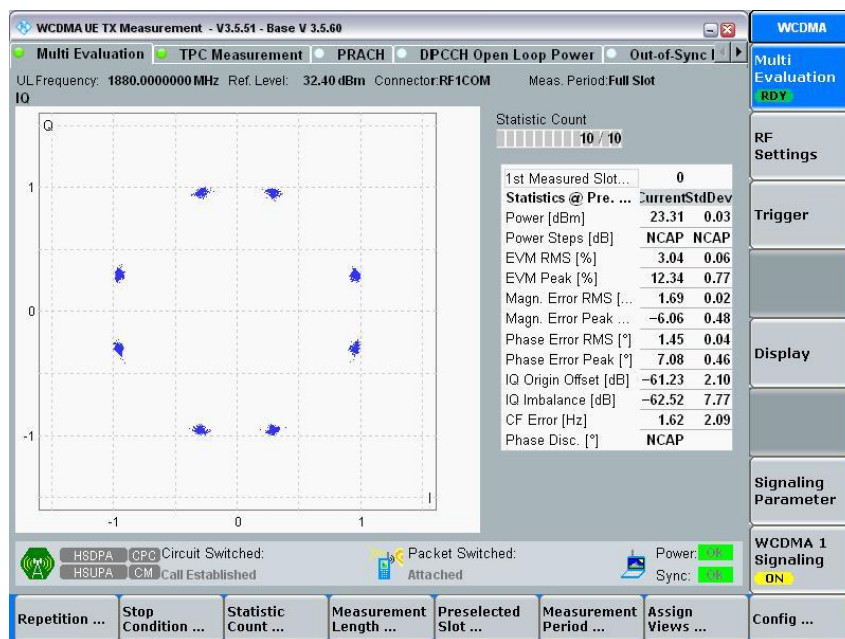
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



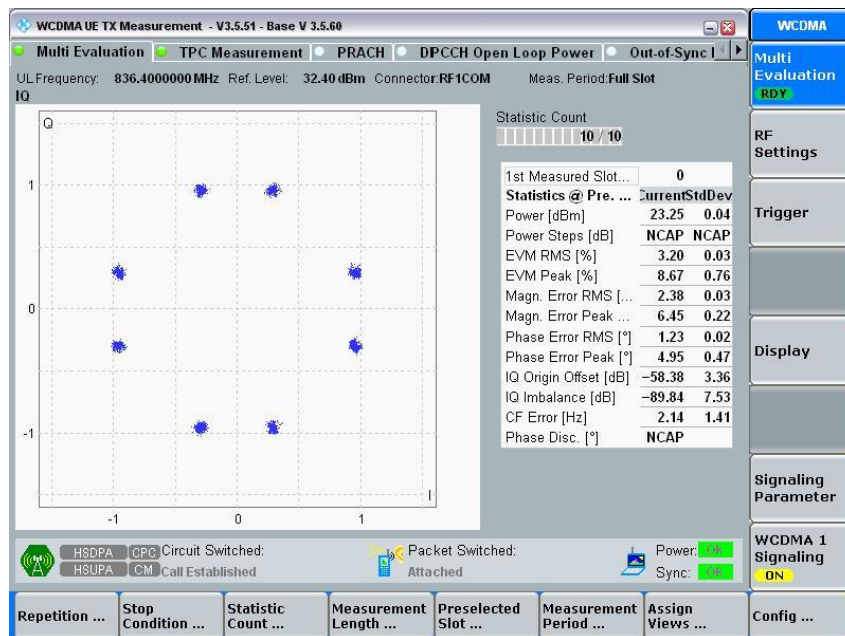
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

3.2. Test Band = WCDMA Band V

3.2.1.1. Test Channel = MCH



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

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

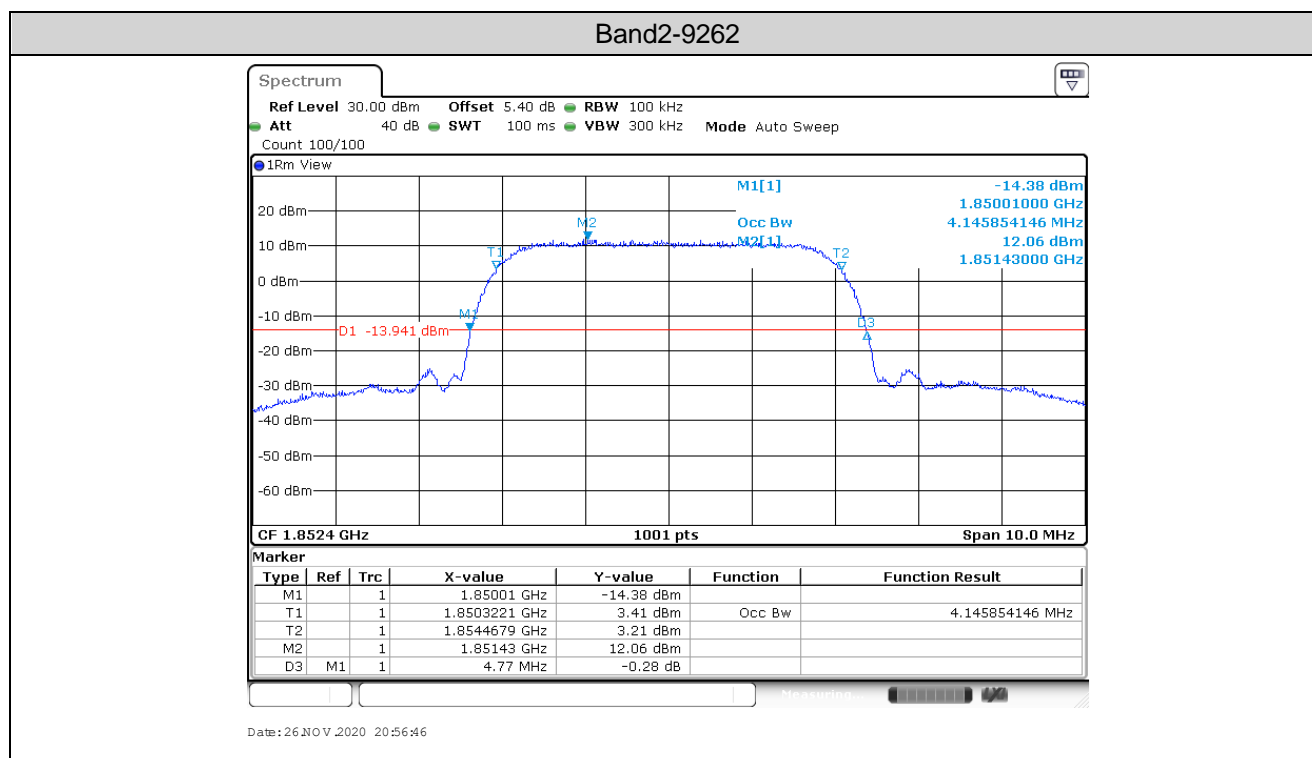


4. 26dB Bandwidth and Occupied Bandwidth

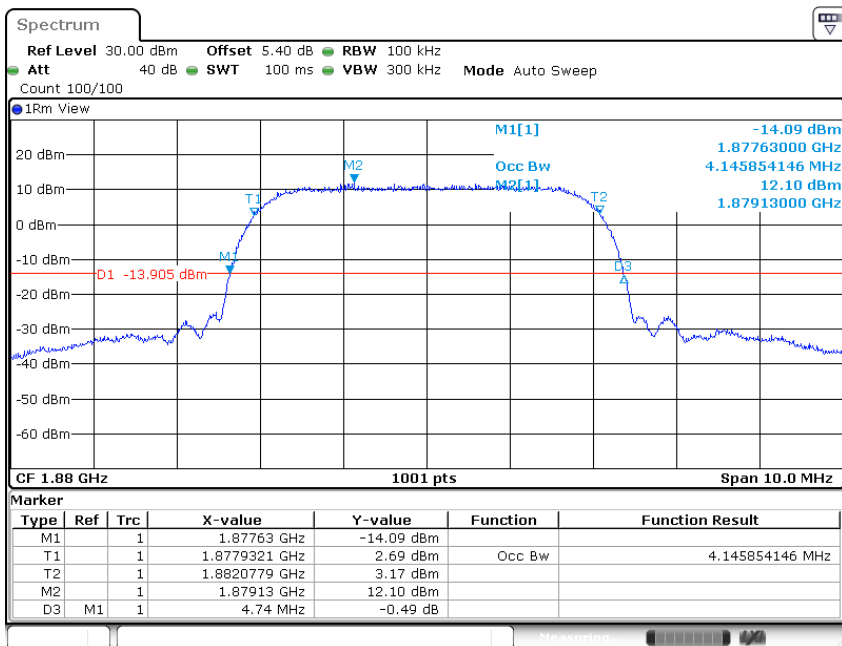
4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.146	4.770	---	PASS
Band2	9400	4.146	4.740	---	PASS
Band2	9538	4.126	4.750	---	PASS
Band5	4132	4.166	4.760	---	PASS
Band5	4182	4.136	4.760	---	PASS
Band5	4233	4.096	4.720	---	PASS

4.2. Test Plots

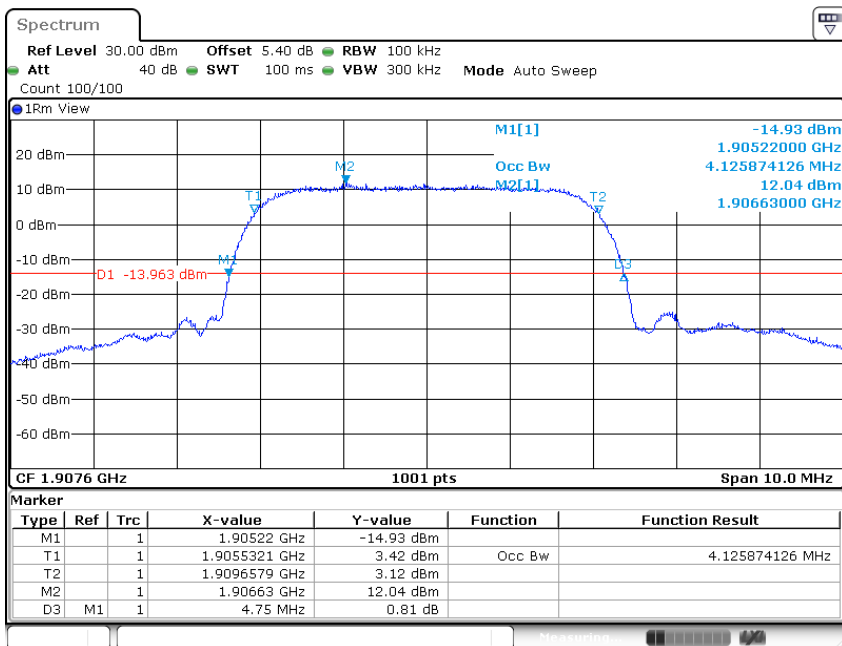


Band2-9400



Date: 26 NOV 2020 20:57:09

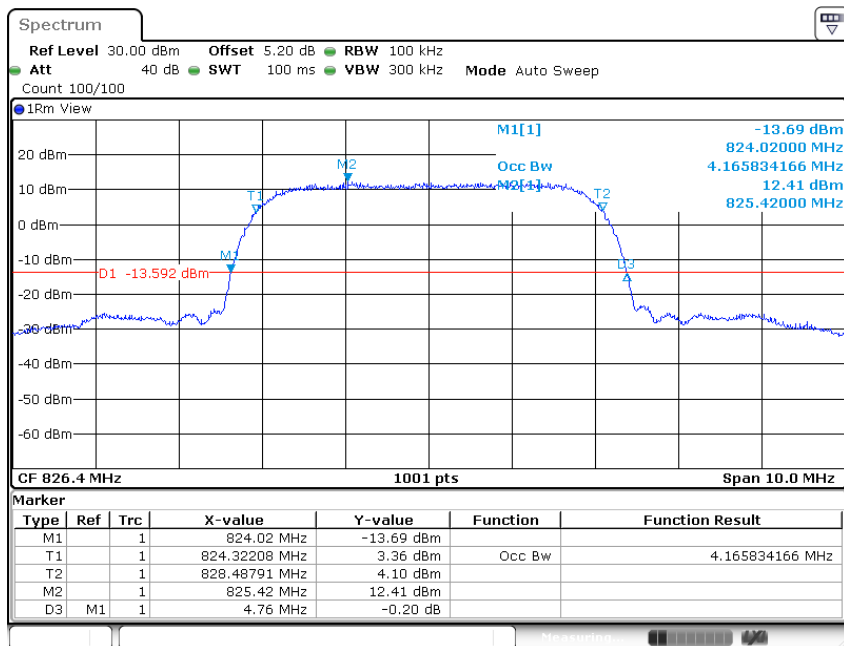
Band2-9538



Date: 26 NOV 2020 20:57:33

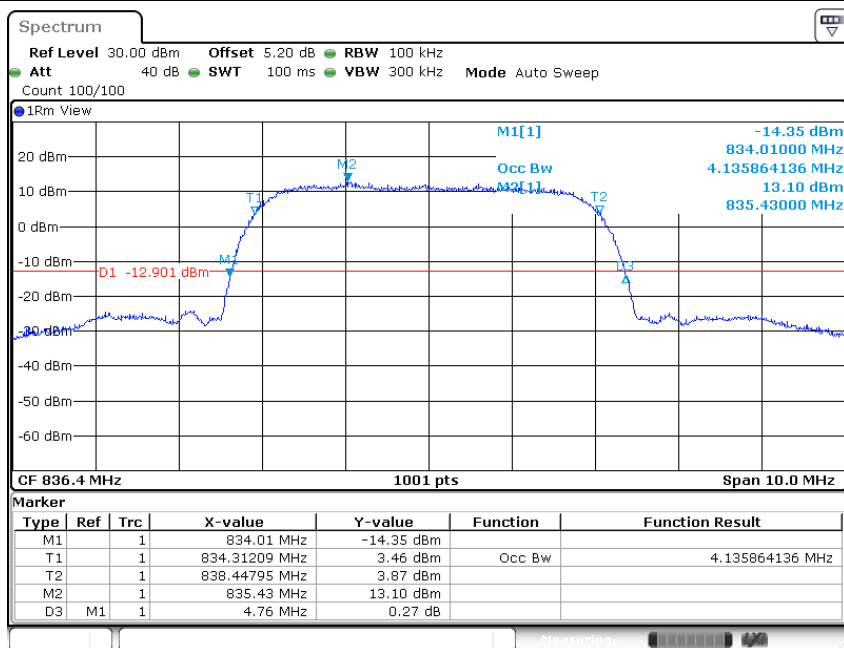


Band5-4132



Date: 26 NOV 2020 21:16:08

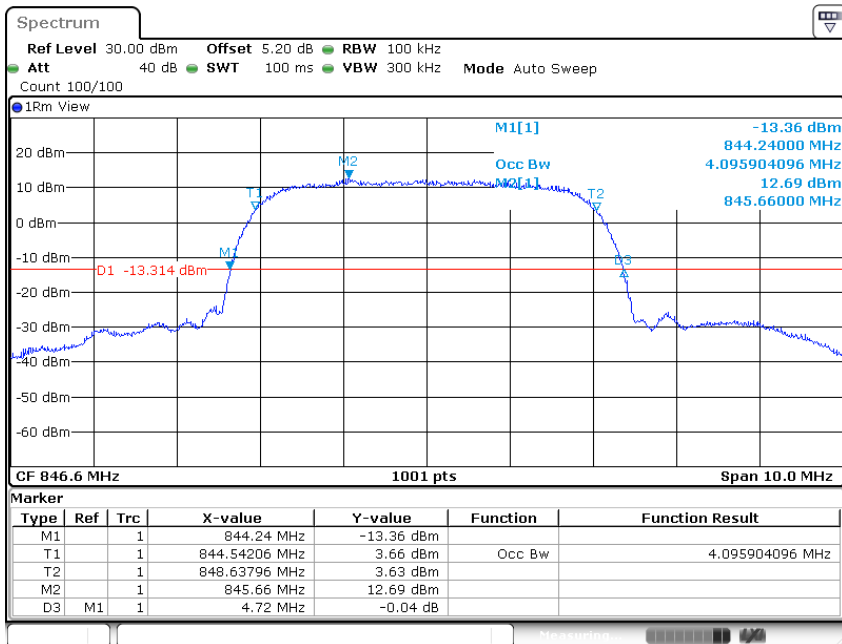
Band5-4182



Date: 26 NOV 2020 21:16:31



Band5-4233



Date: 26 NOV 2020 21:16:54



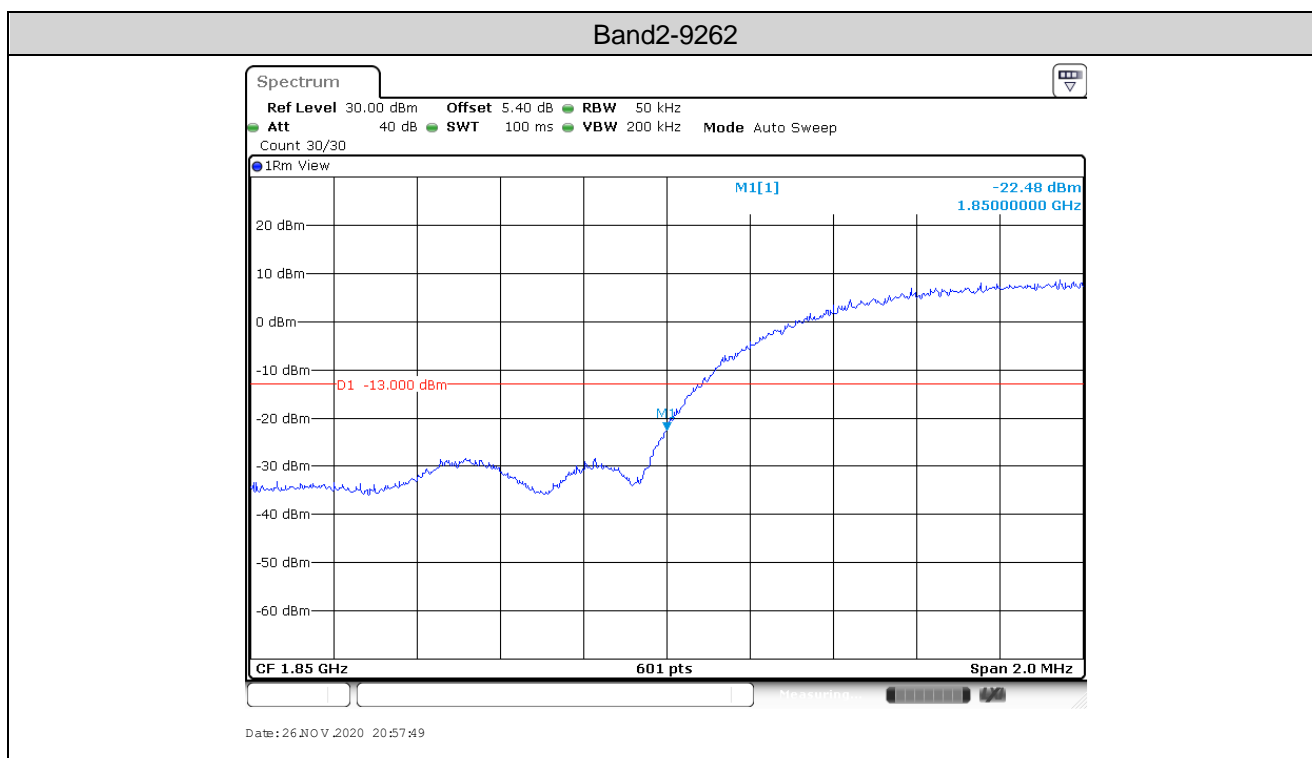


5. Band Edge Compliance

5.1. Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.48	-13	PASS
Band2	9538	1910.00	-20.38	-13	PASS
Band5	4132	824.00	-21.70	-13	PASS
Band5	4233	849.00	-22.48	-13	PASS

5.2. Test Plots

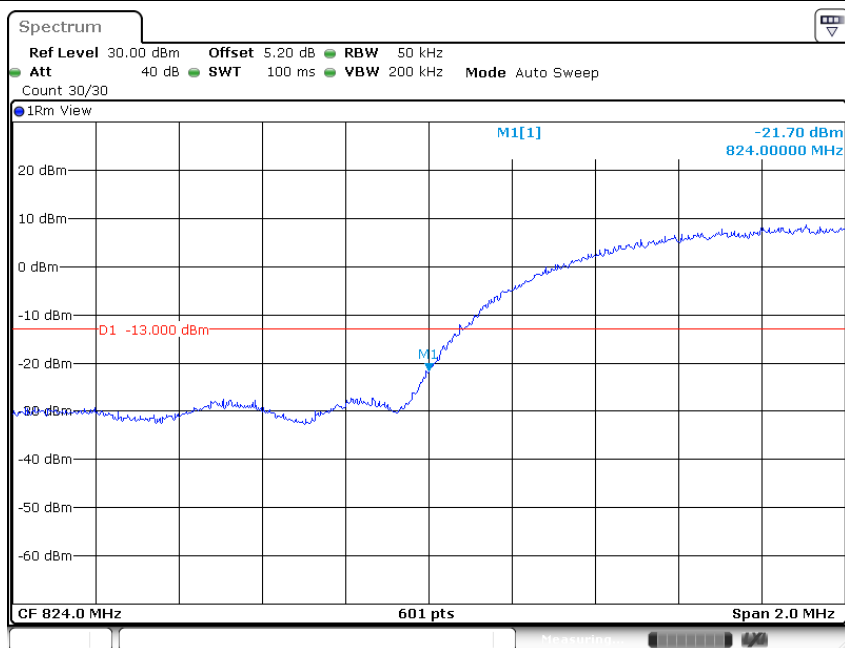


Band2-9538



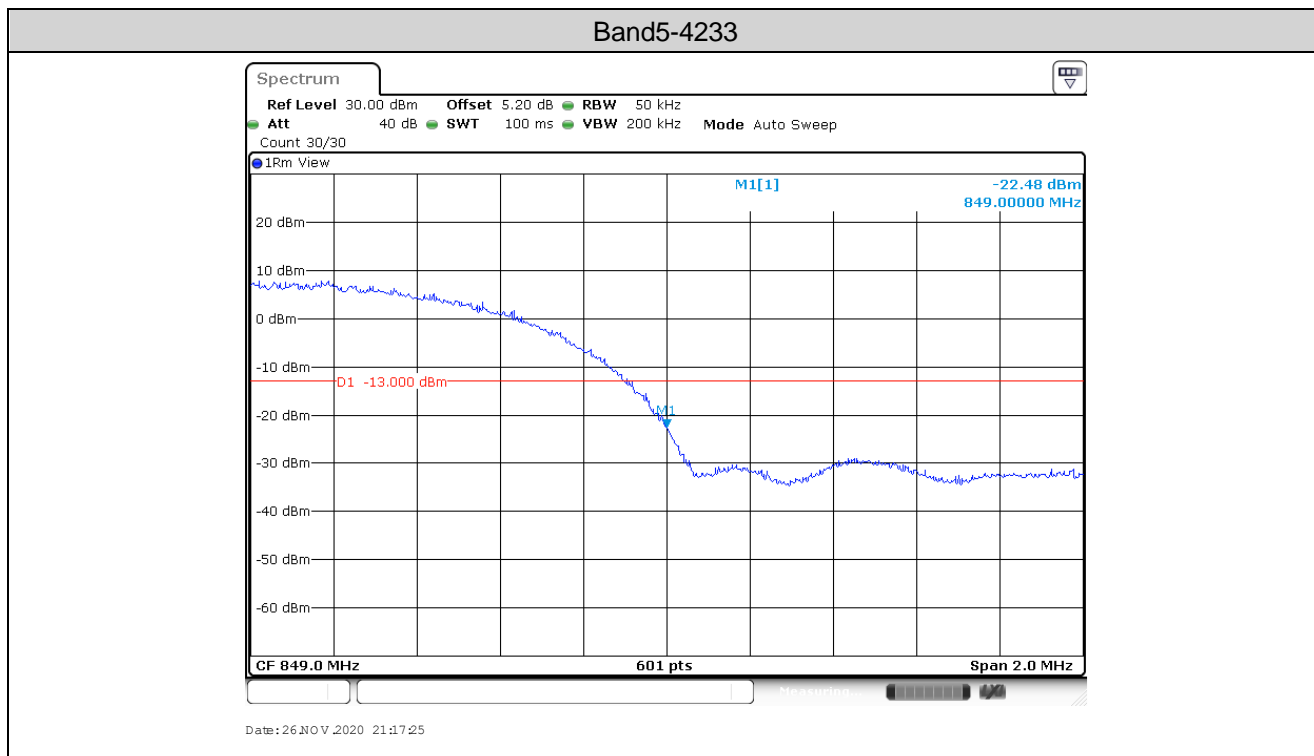
Date: 26 NOV 2020 20:58:04

Band5-4132



Date: 26 NOV 2020 21:17:10





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

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

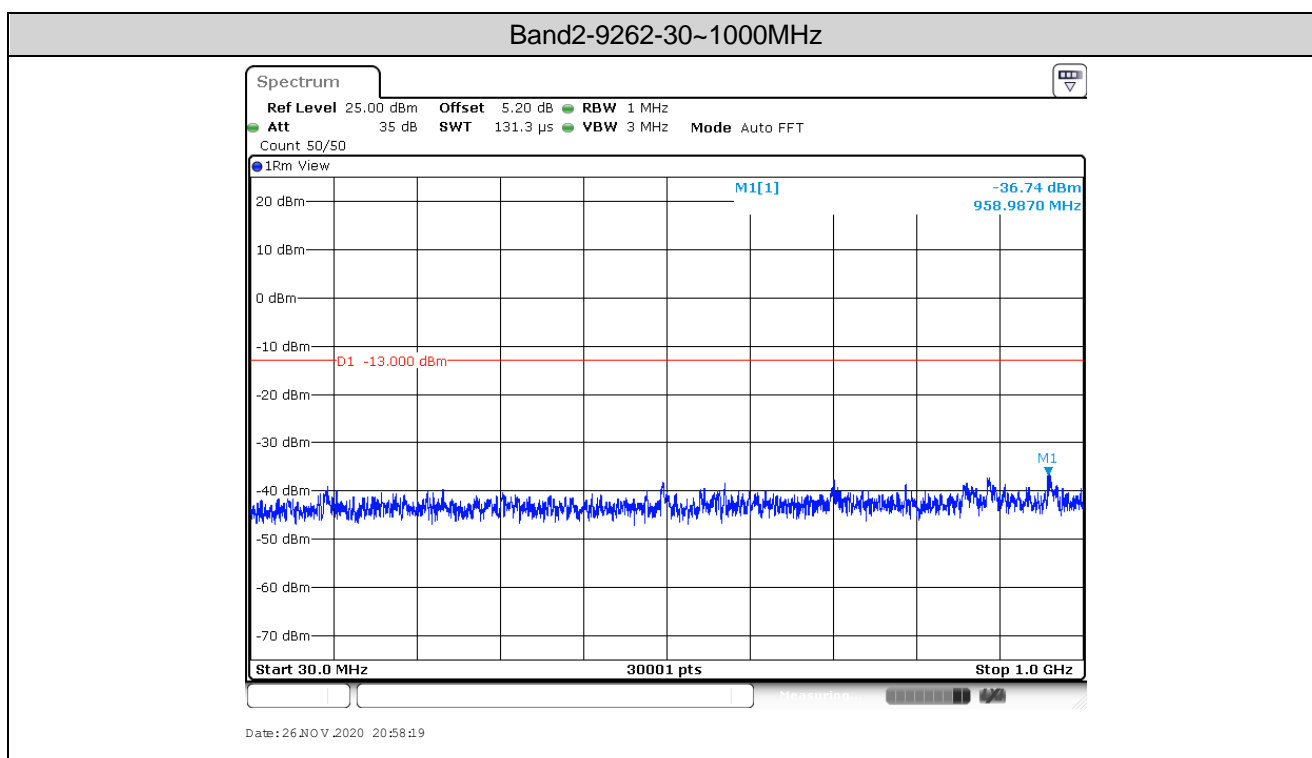


6. Spurious Emission at Antenna Terminal

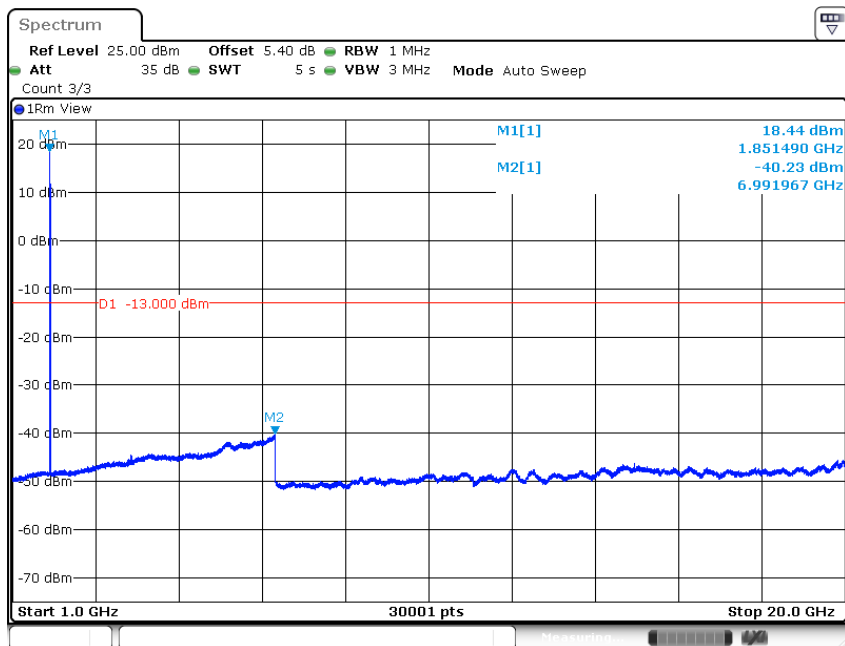
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " 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

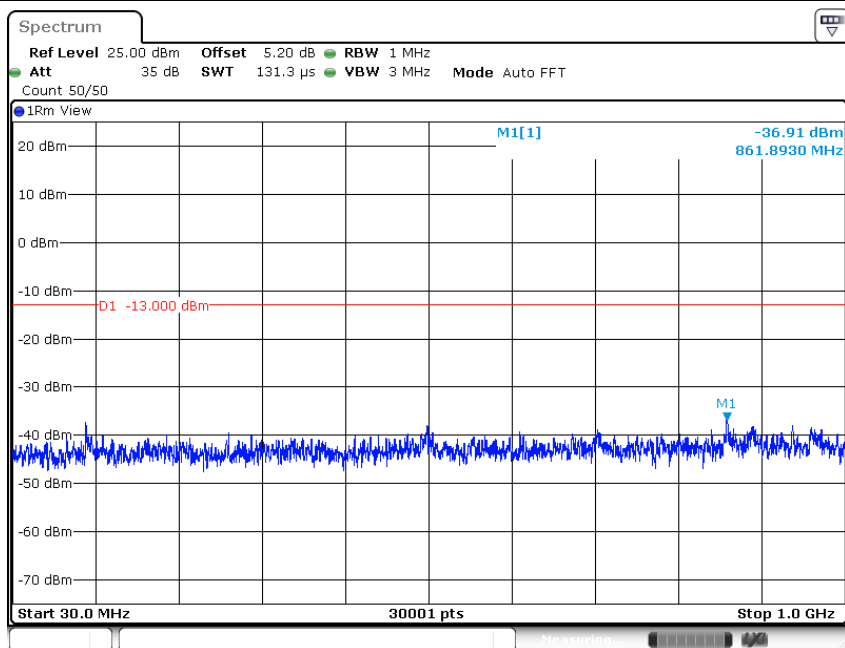


Band2-9262-1000~20000MHz



Date: 26 NOV 2020 20:58:45

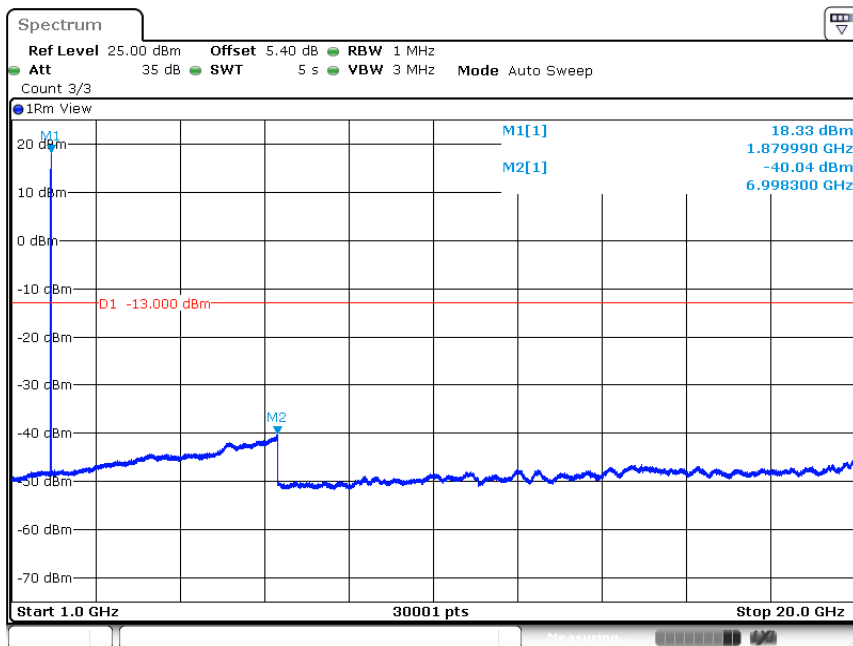
Band2-9400-30~1000MHz



Date: 26 NOV 2020 20:58:59

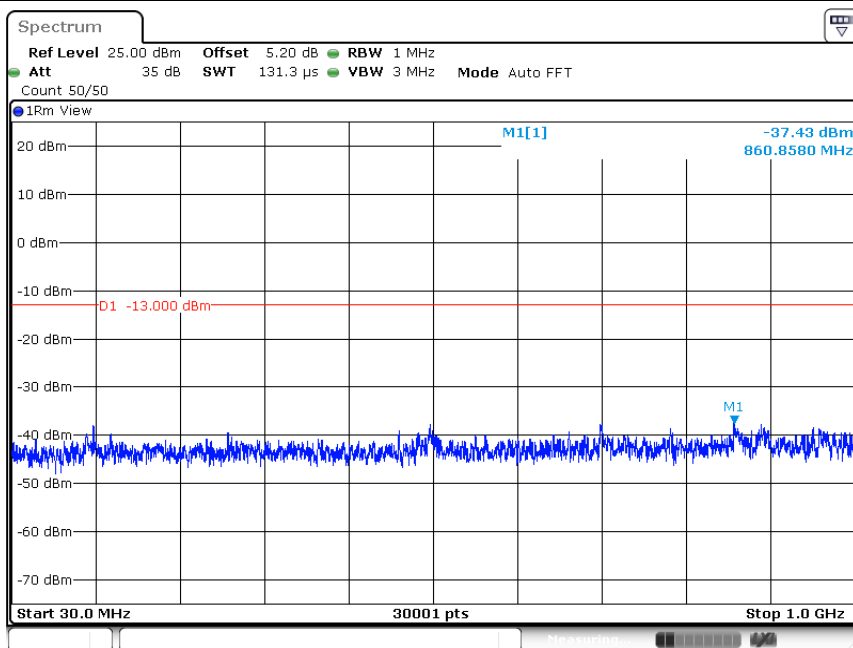


Band2-9400-1000~20000MHz



Date: 26 NOV 2020 20:59:25

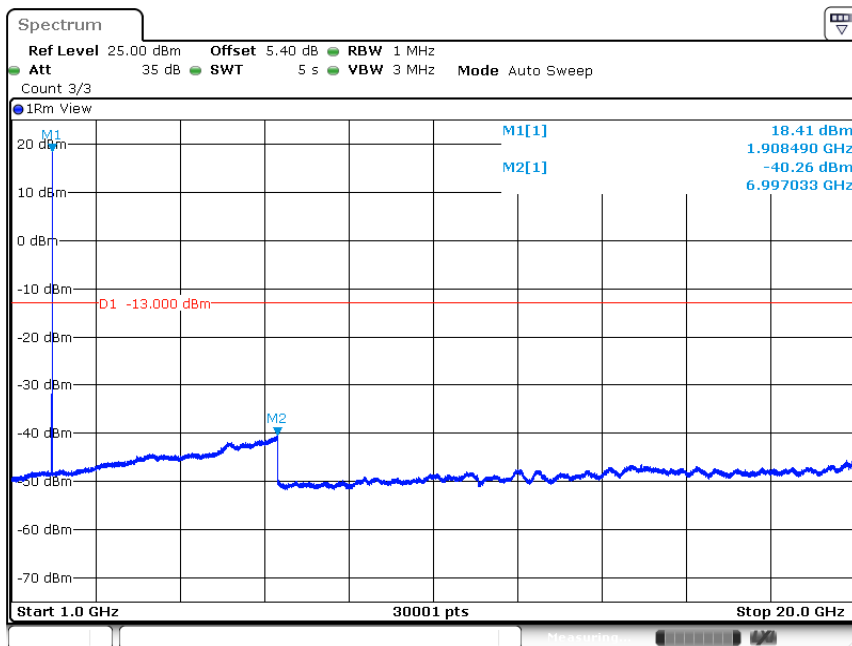
Band2-9538-30~1000MHz



Date: 26 NOV 2020 20:59:39

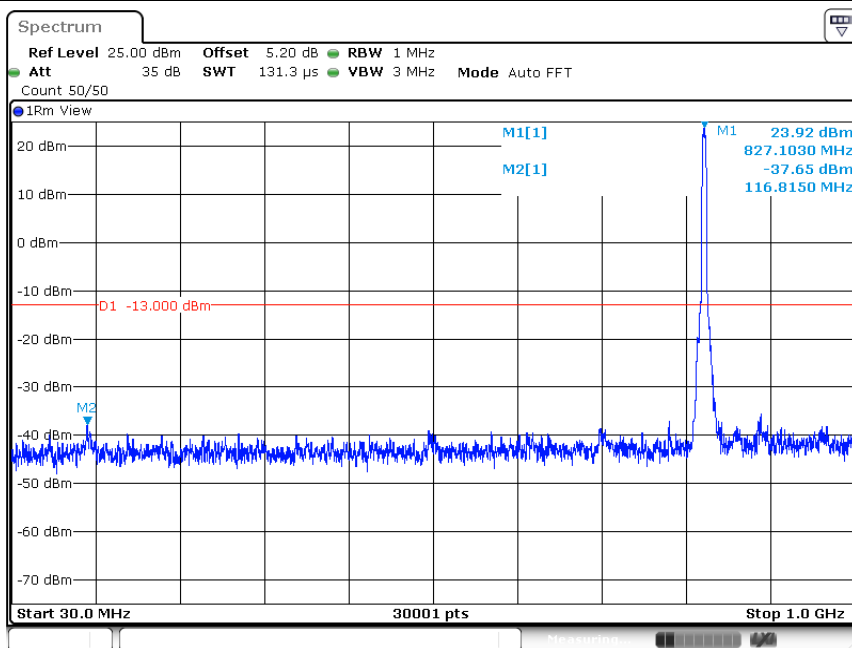


Band2-9538-1000~20000MHz



Date: 26 NOV 2020 21:00:05

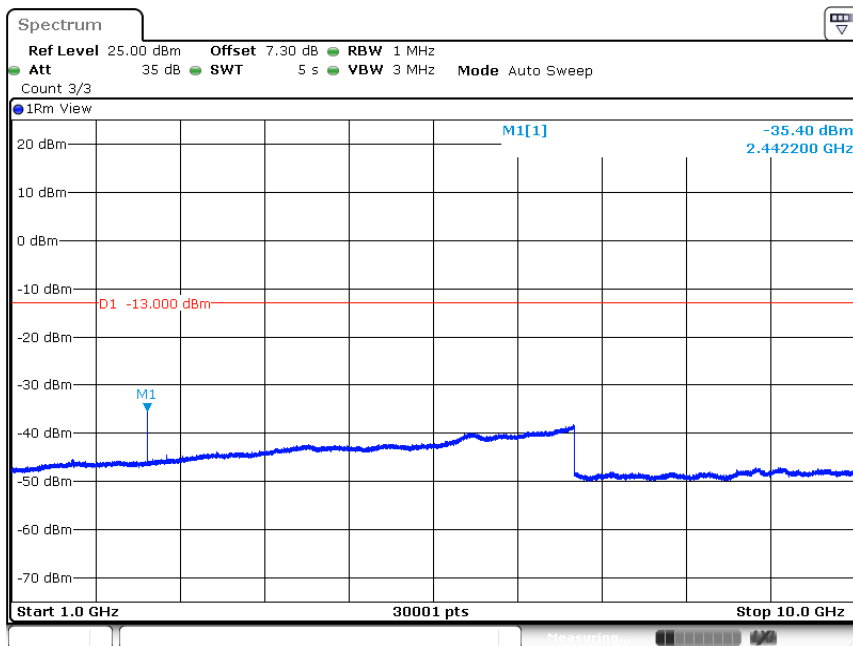
Band5-4132-30~1000MHz



Date: 26 NOV 2020 21:17:41

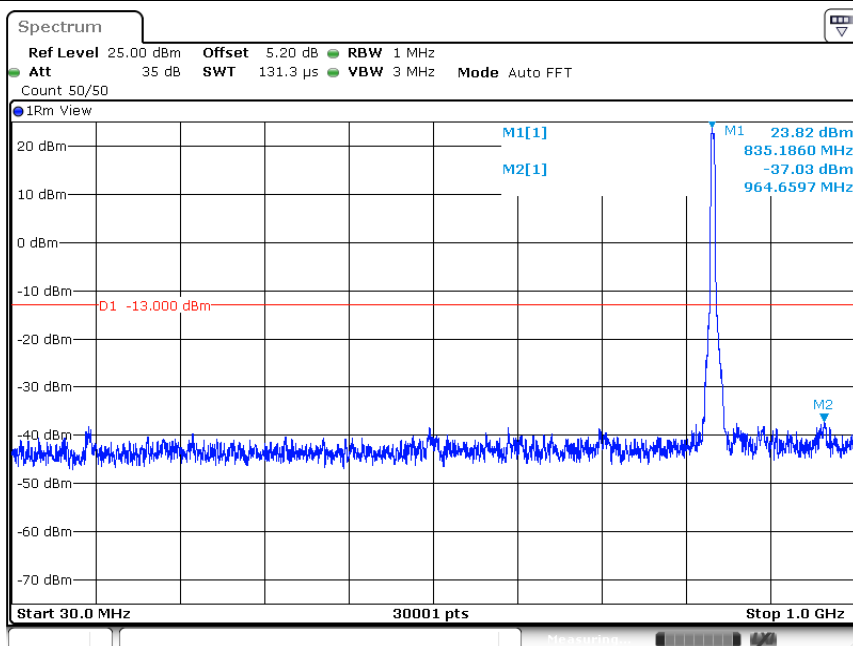


Band5-4132-1000~10000MHz



Date: 26 NOV 2020 21:18:06

Band5-4182-30~1000MHz



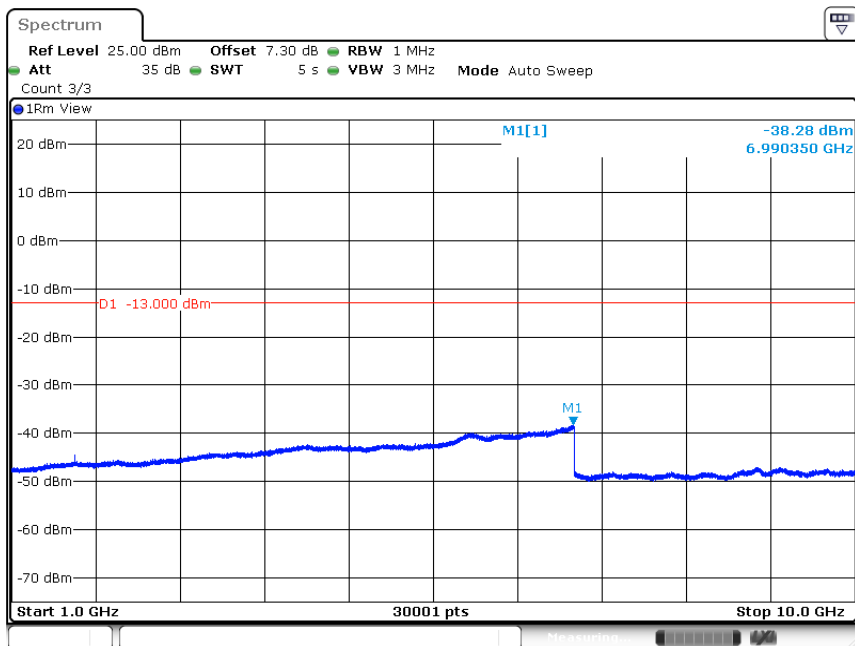
Date: 26 NOV 2020 21:18:21



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

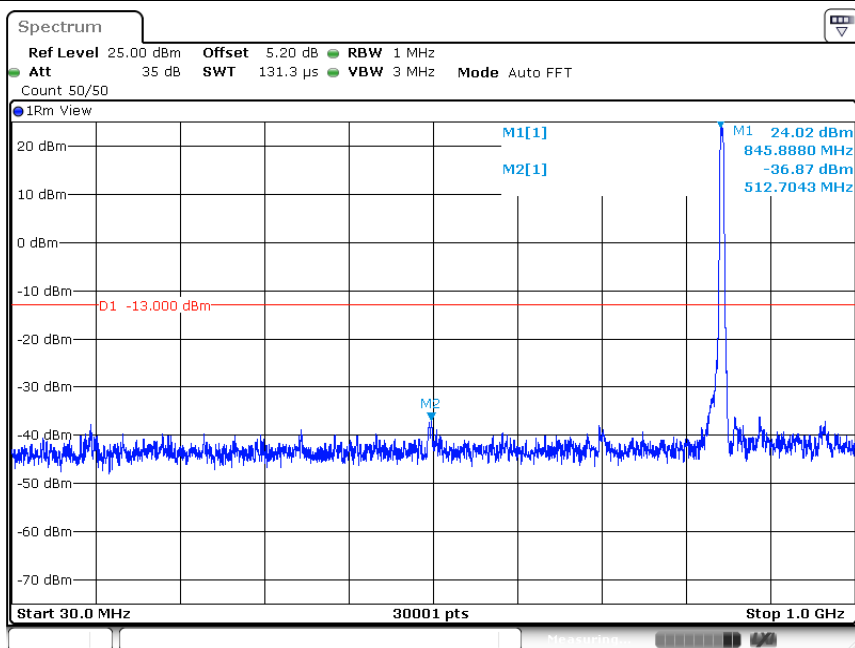
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-4182-1000~10000MHz



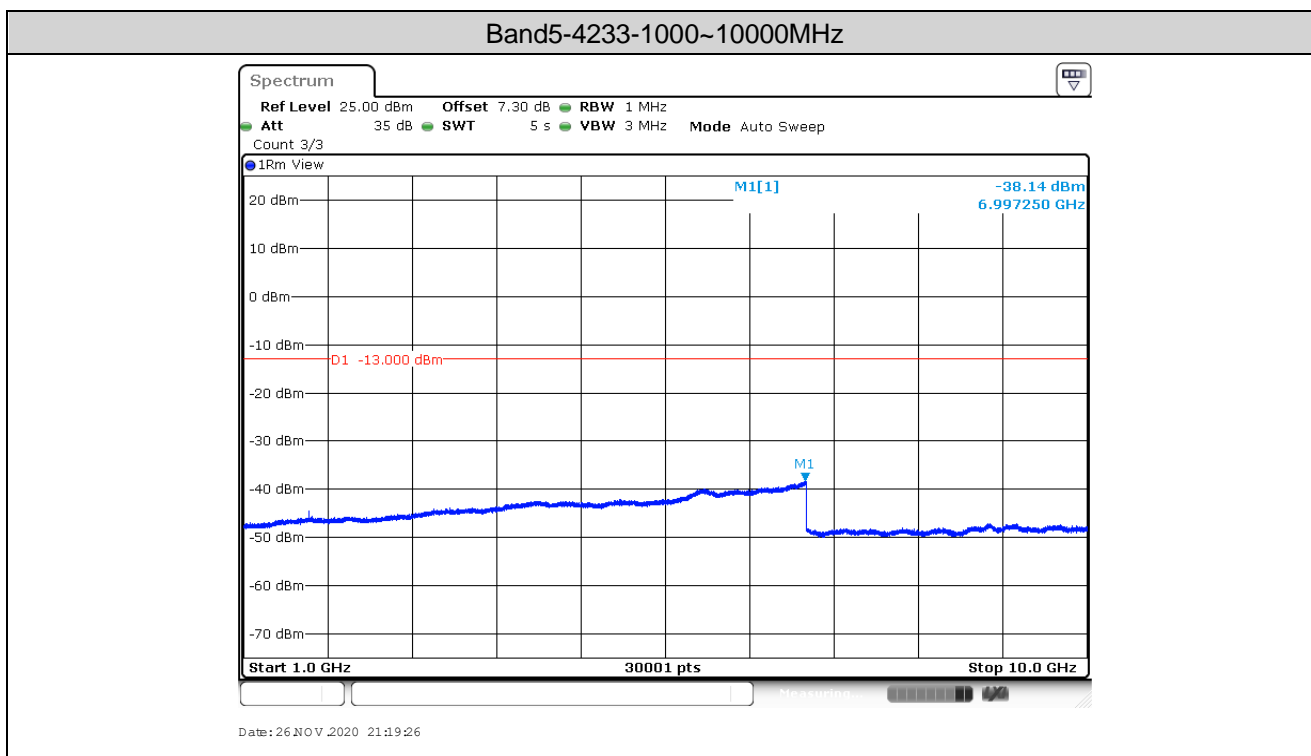
Date: 26 NOV 2020 21:18:46

Band5-4233-30~1000MHz



Date: 26 NOV 2020 21:19:01







7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1. Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
48.0429	-58.05	-13.00	45.05	188	198	Horizontal
246.2723	-66.37	-13.00	53.37	163	293	Horizontal
2699.1398	-34.83	-13.00	21.83	121	27	Horizontal
3706.5236	-53.34	-13.00	40.34	174	0	Horizontal
9313.2104	-52.82	-13.00	39.82	222	58	Horizontal
16394.4465	-44.15	-13.00	31.15	196	293	Horizontal
49.6435	-58.63	-13.00	45.63	252	42	Vertical
116.8678	-61.44	-13.00	48.44	111	11	Vertical
2702.7405	-35.99	-13.00	22.99	163	202	Vertical
3703.5235	-54.98	-13.00	41.98	198	74	Vertical
5554.5852	-54.04	-13.00	41.04	175	294	Vertical
17998.5000	-40.95	-13.00	27.95	222	325	Vertical

7.1.1.2. Test Channel = MCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.6363	-57.67	-13.00	44.67	219	196	Horizontal
245.4963	-66.76	-13.00	53.76	263	196	Horizontal
2699.5399	-34.65	-13.00	21.65	116	252	Horizontal
3758.0253	-52.10	-13.00	39.10	274	292	Horizontal
5637.5879	-56.35	-13.00	43.35	197	196	Horizontal
16393.4464	-44.67	-13.00	31.67	162	163	Horizontal
46.0543	-58.51	-13.00	45.51	163	8	Vertical
118.7109	-60.98	-13.00	47.98	252	293	Vertical
2698.3397	-35.91	-13.00	22.91	184	190	Vertical
3758.0253	-53.49	-13.00	40.49	263	40	Vertical
5637.5879	-54.48	-13.00	41.48	222	293	Vertical
17997.9999	-40.48	-13.00	27.48	194	261	Vertical



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

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



7.1.1.3. Test Channel = HCH

7.2. Test Band = WCDMA Band V

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.7333	-59.25	-13.00	46.25	211	196	Horizontal
242.7801	-66.92	-13.00	53.92	263	292	Horizontal
818.1644	-60.75	-13.00	47.75	237	196	Horizontal
3817.0272	-51.10	-13.00	38.10	154	63	Horizontal
5726.0909	-55.65	-13.00	42.65	175	196	Horizontal
16388.4463	-44.70	-13.00	31.70	196	292	Horizontal
47.0729	-58.01	-13.00	45.01	152	8	Vertical
119.0990	-60.41	-13.00	47.41	322	325	Vertical
719.2195	-61.50	-13.00	48.50	263	325	Vertical
3813.5271	-58.29	-13.00	45.29	222	103	Vertical
5720.0907	-48.74	-13.00	35.74	196	135	Vertical
17993.4998	-40.91	-13.00	27.91	176	166	Vertical

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.8788	-56.47	-13.00	43.47	189	191	Horizontal
234.8257	-66.81	-13.00	53.81	252	291	Horizontal
1651.3303	-58.93	-13.00	45.93	163	323	Horizontal
2476.6953	-49.78	-13.00	36.78	127	51	Horizontal
7453.0818	-56.49	-13.00	43.49	294	0	Horizontal
9522.5841	-53.11	-13.00	40.11	255	158	Horizontal
48.3824	-57.78	-13.00	44.78	222	40	Vertical
119.9720	-60.70	-13.00	47.70	218	293	Vertical
639.8695	-63.10	-13.00	50.10	196	230	Vertical
1779.7560	-57.32	-13.00	44.32	305	40	Vertical
2581.9164	-50.17	-13.00	37.17	221	107	Vertical
9806.7936	-52.33	-13.00	39.33	187	73	Vertical



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

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



7.2.1.2. Test Channel = MCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
45.9088	-58.27	-13.00	45.27	185	154	Horizontal
231.5276	-66.82	-13.00	53.82	166	316	Horizontal
639.1420	-62.88	-13.00	49.88	203	185	Horizontal
2512.3025	-50.47	-13.00	37.47	296	77	Horizontal
3636.0879	-60.00	-13.00	47.00	218	0	Horizontal
9334.2778	-52.98	-13.00	39.98	188	316	Horizontal
47.4609	-58.46	-13.00	45.46	186	7	Vertical
117.2074	-62.53	-13.00	49.53	222	294	Vertical
398.7639	-66.90	-13.00	53.90	122	262	Vertical
1767.3535	-57.94	-13.00	44.94	198	154	Vertical
2689.9380	-51.01	-13.00	38.01	124	17	Vertical
9893.8298	-52.22	-13.00	39.22	254	294	Vertical

7.2.1.3. Test Channel = HCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
48.5764	-58.25	-13.00	45.25	116	161	Horizontal
227.7444	-67.63	-13.00	54.63	252	66	Horizontal
620.7110	-63.20	-13.00	50.20	145	324	Horizontal
1690.9382	-58.48	-13.00	45.48	197	261	Horizontal
2536.3073	-50.78	-13.00	37.78	166	82	Horizontal
9292.7431	-52.62	-13.00	39.62	258	129	Horizontal
50.6620	-58.08	-13.00	45.08	254	262	Vertical
116.7223	-62.62	-13.00	49.62	172	42	Vertical
683.9582	-62.71	-13.00	49.71	136	199	Vertical
1700.1400	-58.93	-13.00	45.93	296	321	Vertical
2702.7405	-51.20	-13.00	38.20	234	44	Vertical
9328.6776	-52.46	-13.00	39.46	125	136	Vertical

Remark:

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



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	0.04	0.000022	±2.5	PASS
Band2	9262	VN	NT	-0.62	-0.000335	±2.5	PASS
Band2	9262	VH	NT	0.42	0.000227	±2.5	PASS
Band2	9400	VL	NT	-0.46	-0.000245	±2.5	PASS
Band2	9400	VN	NT	-0.60	-0.000319	±2.5	PASS
Band2	9400	VH	NT	-0.69	-0.000367	±2.5	PASS
Band2	9538	VL	NT	-4.70	-0.002464	±2.5	PASS
Band2	9538	VN	NT	-4.93	-0.002584	±2.5	PASS
Band2	9538	VH	NT	-4.63	-0.002427	±2.5	PASS
Band5	4132	VL	NT	1.60	0.001936	±2.5	PASS
Band5	4132	VN	NT	1.38	0.001670	±2.5	PASS
Band5	4132	VH	NT	1.66	0.002009	±2.5	PASS
Band5	4182	VL	NT	-0.14	-0.000167	±2.5	PASS
Band5	4182	VN	NT	0.04	0.000048	±2.5	PASS
Band5	4182	VH	NT	-0.16	-0.000191	±2.5	PASS
Band5	4233	VL	NT	-2.23	-0.002634	±2.5	PASS
Band5	4233	VN	NT	-2.21	-0.002610	±2.5	PASS
Band5	4233	VH	NT	-2.07	-0.002445	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	0.82	0.000443	±2.5	PASS
Band2	9262	NV	-20	1.17	0.000632	±2.5	PASS
Band2	9262	NV	-10	1.62	0.000875	±2.5	PASS
Band2	9262	NV	0	1.57	0.000848	±2.5	PASS
Band2	9262	NV	10	1.62	0.000875	±2.5	PASS
Band2	9262	NV	20	2.05	0.001107	±2.5	PASS
Band2	9262	NV	30	2.14	0.001155	±2.5	PASS



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

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

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

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



Band2	9262	NV	40	2.45	0.001323	±2.5	PASS
Band2	9262	NV	50	2.40	0.001296	±2.5	PASS
Band2	9400	NV	-30	-1.03	-0.000548	±2.5	PASS
Band2	9400	NV	-20	-0.60	-0.000319	±2.5	PASS
Band2	9400	NV	-10	-0.90	-0.000479	±2.5	PASS
Band2	9400	NV	0	-0.64	-0.000340	±2.5	PASS
Band2	9400	NV	10	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	20	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	30	-0.69	-0.000367	±2.5	PASS
Band2	9400	NV	40	-0.66	-0.000351	±2.5	PASS
Band2	9400	NV	50	-0.59	-0.000314	±2.5	PASS
Band2	9538	NV	-30	-4.74	-0.002485	±2.5	PASS
Band2	9538	NV	-20	-4.58	-0.002401	±2.5	PASS
Band2	9538	NV	-10	-4.81	-0.002521	±2.5	PASS
Band2	9538	NV	0	-4.91	-0.002574	±2.5	PASS
Band2	9538	NV	10	-4.67	-0.002448	±2.5	PASS
Band2	9538	NV	20	-5.05	-0.002647	±2.5	PASS
Band2	9538	NV	30	-5.18	-0.002715	±2.5	PASS
Band2	9538	NV	40	-4.89	-0.002563	±2.5	PASS
Band2	9538	NV	50	-4.73	-0.002480	±2.5	PASS
Band5	4132	NV	-30	1.68	0.002033	±2.5	PASS
Band5	4132	NV	-20	1.69	0.002045	±2.5	PASS
Band5	4132	NV	-10	1.76	0.002130	±2.5	PASS
Band5	4132	NV	0	1.65	0.001997	±2.5	PASS
Band5	4132	NV	10	1.57	0.001900	±2.5	PASS
Band5	4132	NV	20	1.81	0.002190	±2.5	PASS
Band5	4132	NV	30	1.77	0.002142	±2.5	PASS
Band5	4132	NV	40	1.69	0.002045	±2.5	PASS
Band5	4132	NV	50	1.72	0.002081	±2.5	PASS
Band5	4182	NV	-30	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	-20	-0.07	-0.000084	±2.5	PASS
Band5	4182	NV	-10	-0.15	-0.000179	±2.5	PASS
Band5	4182	NV	0	-0.10	-0.000120	±2.5	PASS
Band5	4182	NV	10	-0.18	-0.000215	±2.5	PASS
Band5	4182	NV	20	-0.20	-0.000239	±2.5	PASS
Band5	4182	NV	30	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	40	-0.27	-0.000323	±2.5	PASS



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

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



Band5	4182	NV	50	-0.33	-0.000395	±2.5	PASS
Band5	4233	NV	-30	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	-20	-2.02	-0.002386	±2.5	PASS
Band5	4233	NV	-10	-2.03	-0.002398	±2.5	PASS
Band5	4233	NV	0	-2.17	-0.002563	±2.5	PASS
Band5	4233	NV	10	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	20	-2.25	-0.002658	±2.5	PASS
Band5	4233	NV	30	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	40	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	50	-2.26	-0.002670	±2.5	PASS

The End

